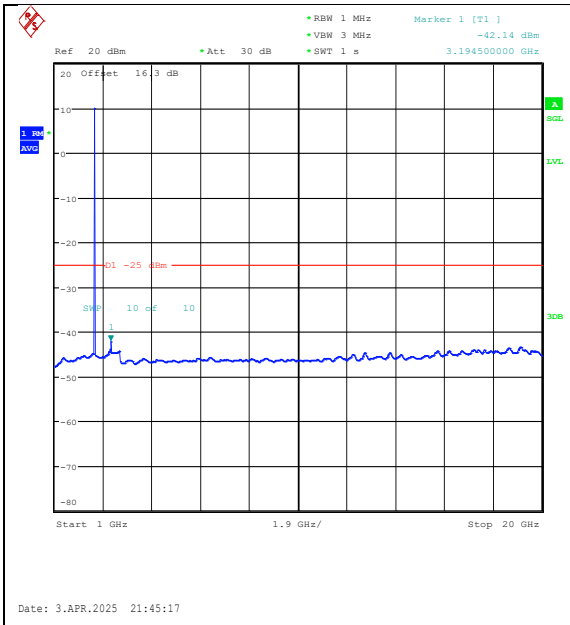
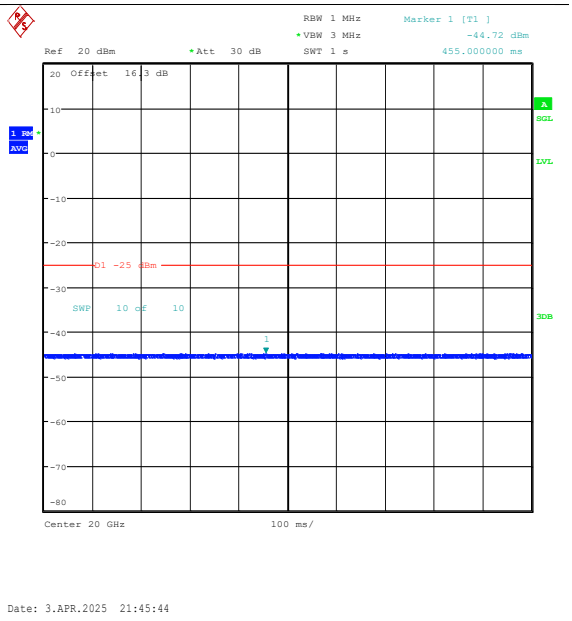
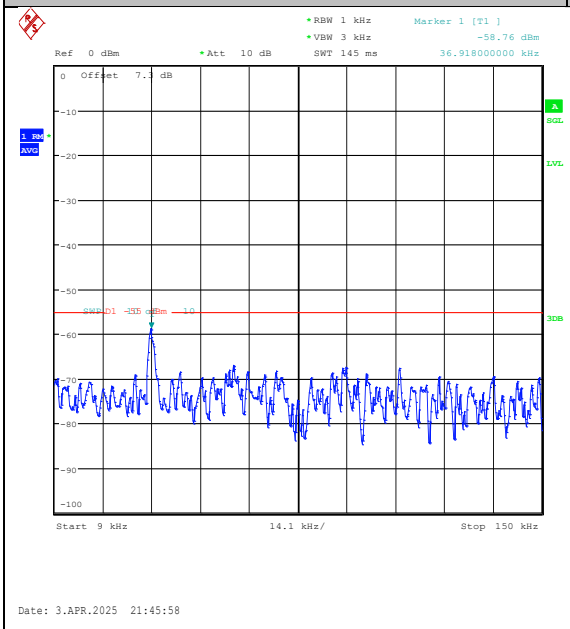


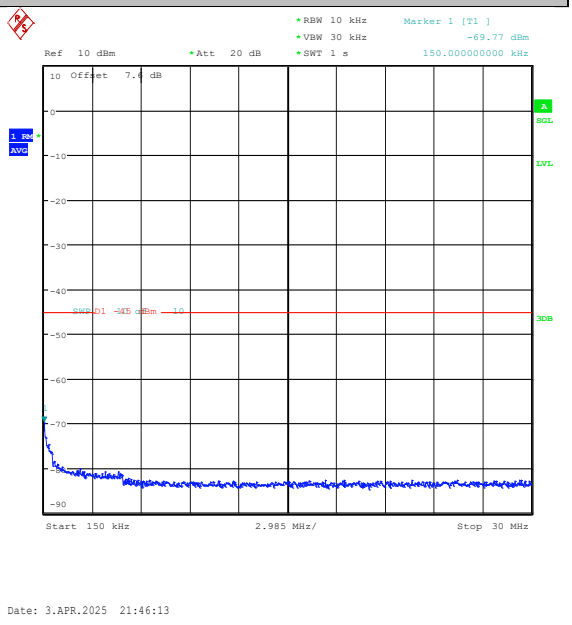
Band38-5MHz-16QAM-37775-1RB#0-1000~20000-PASS



Band38-5MHz-16QAM-37775-1RB#0-20000~27000-PASS



Band38-5MHz-QPSK-38000-1RB#0-0.009~0.15-PASS



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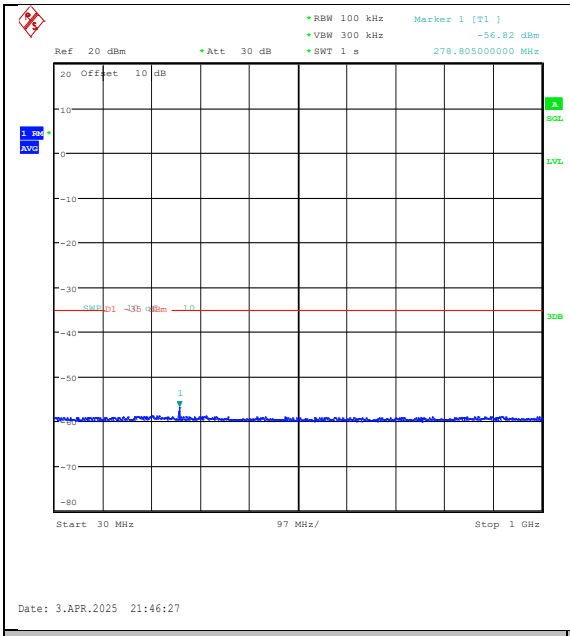

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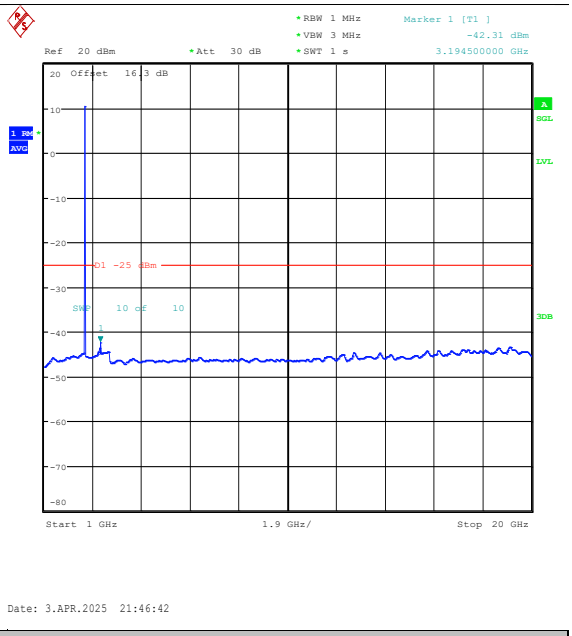

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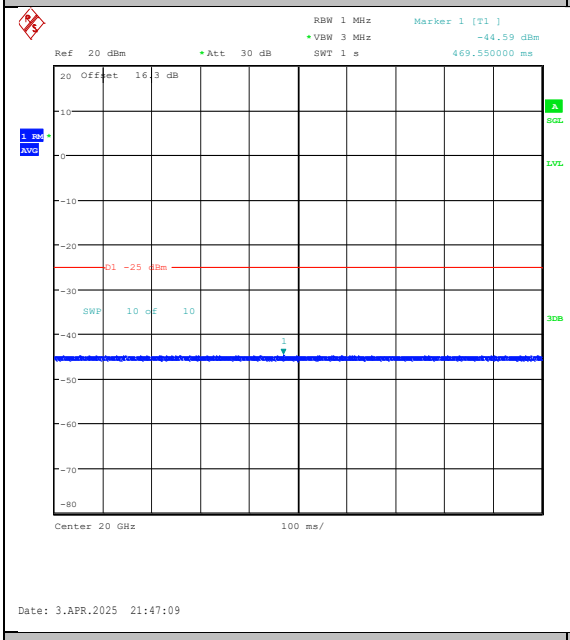
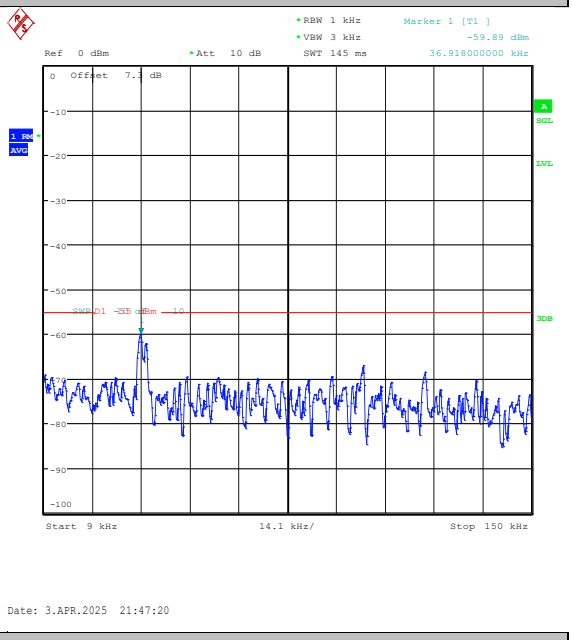
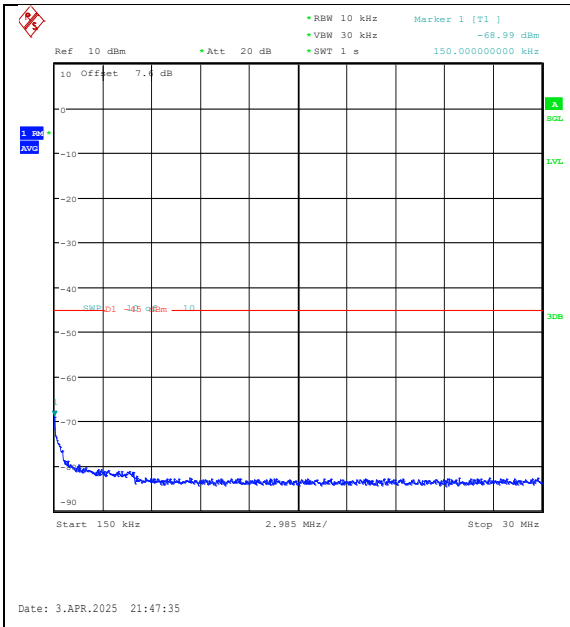


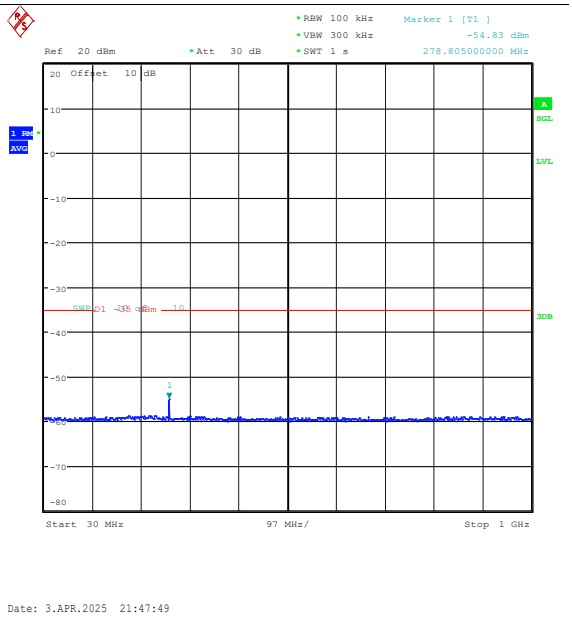
Band38-5MHz-QPSK-38000-1RB#0-20000~27000-PASS



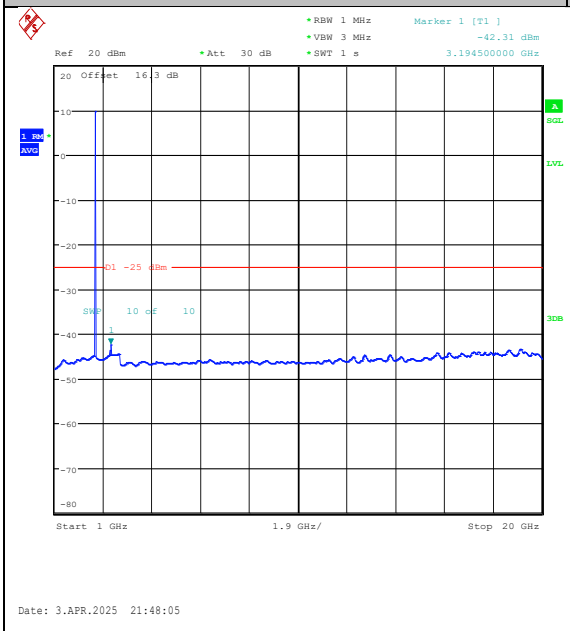
Band38-5MHz-16QAM-38000-1RB#0-0.009~0.15-PASS



Band38-5MHz-16QAM-38000-1RB#0-0.15~30-PASS



Band38-5MHz-16QAM-38000-1RB#0-30~1000-PASS



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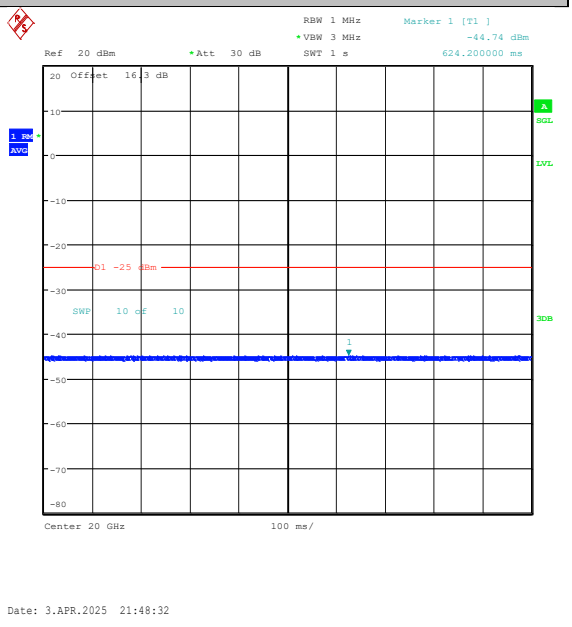
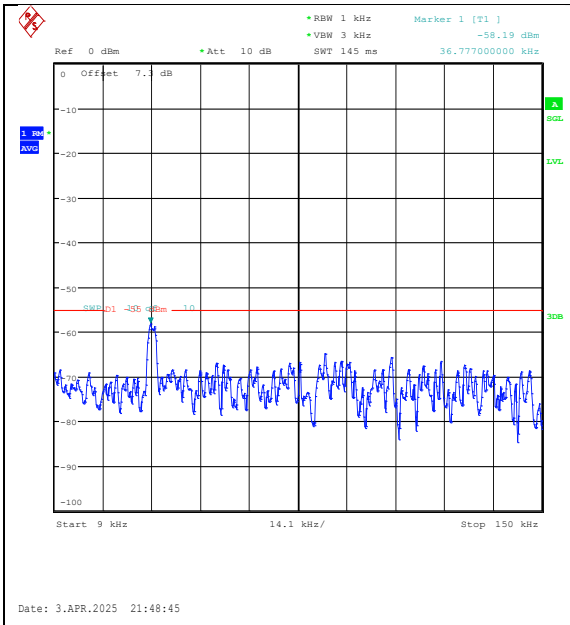
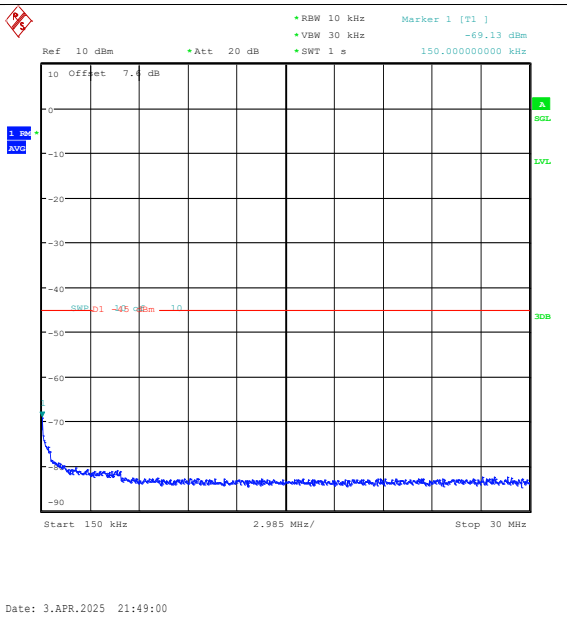


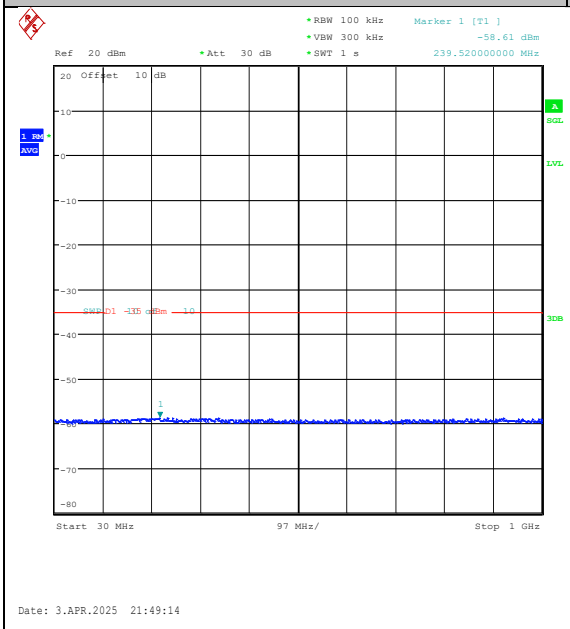
Band38-5MHz-16QAM-38000-1RB#0-20000~27000-PASS



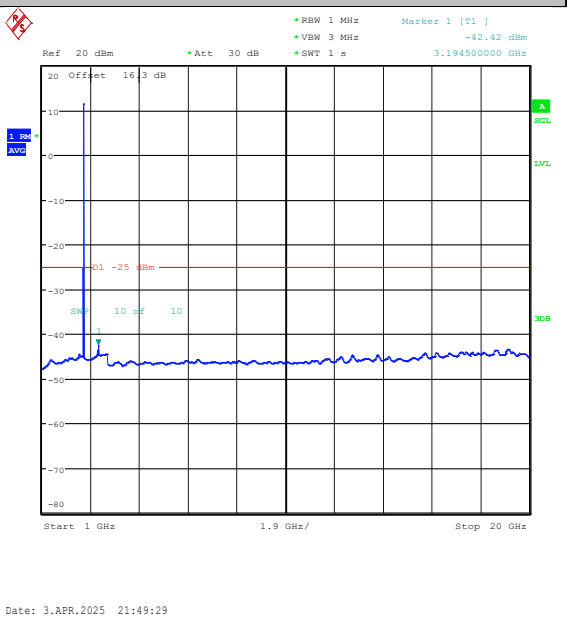
Band38-5MHz-QPSK-38225-1RB#0-0.009~0.15-PASS



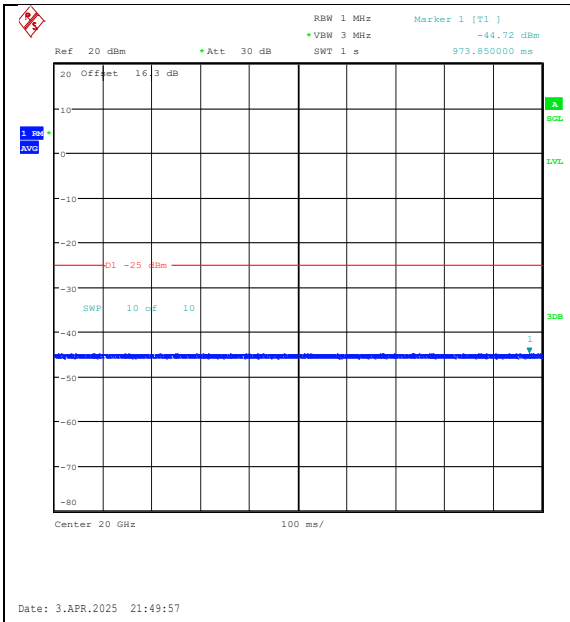
Band38-5MHz-QPSK-38225-1RB#0-0.15~30-PASS



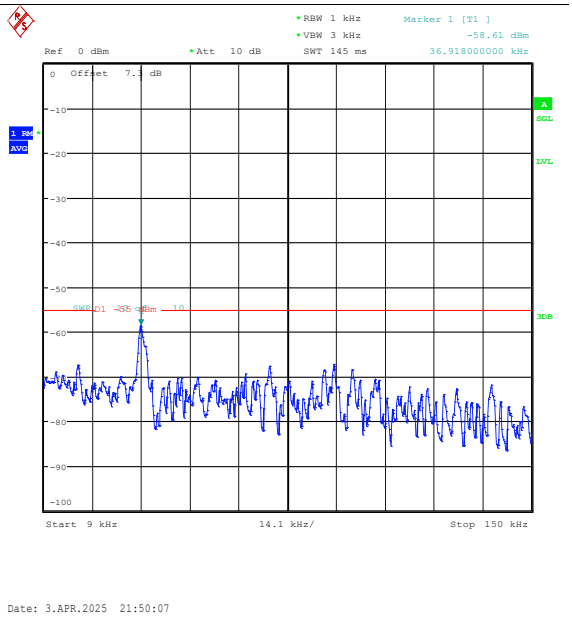
Band38-5MHz-QPSK-38225-1RB#0-30~1000-PASS



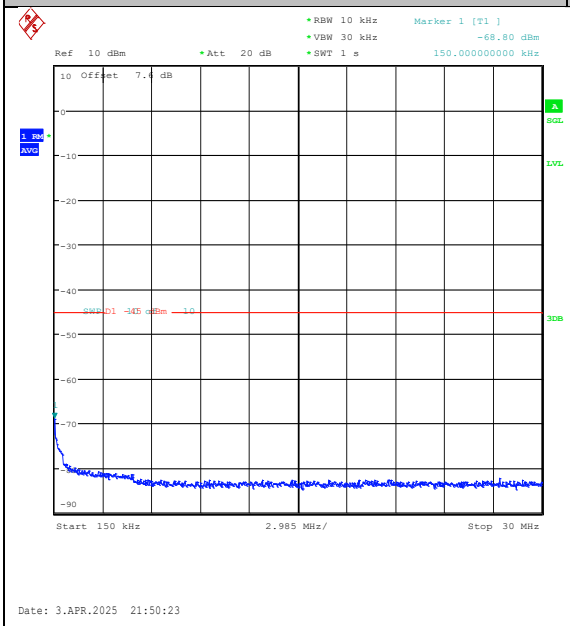
Band38-5MHz-QPSK-38225-1RB#0-1000~20000-PASS



Band38-5MHz-QPSK-38225-1RB#0-20000~27000-PASS



Band38-5MHz-16QAM-38225-1RB#0-0.009~0.15-PASS



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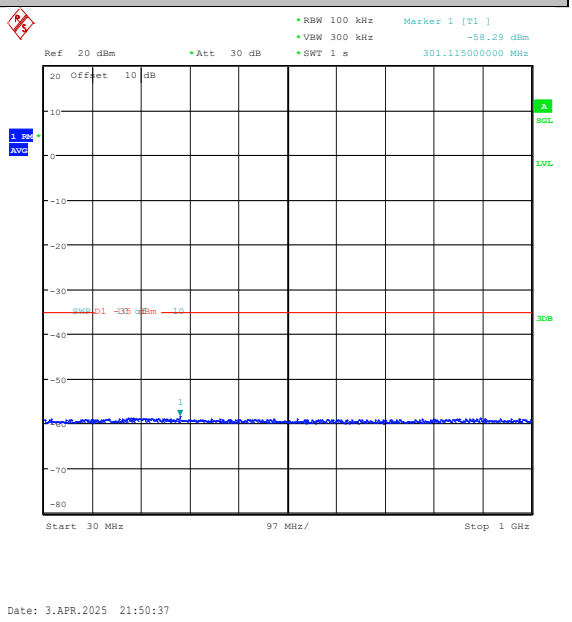
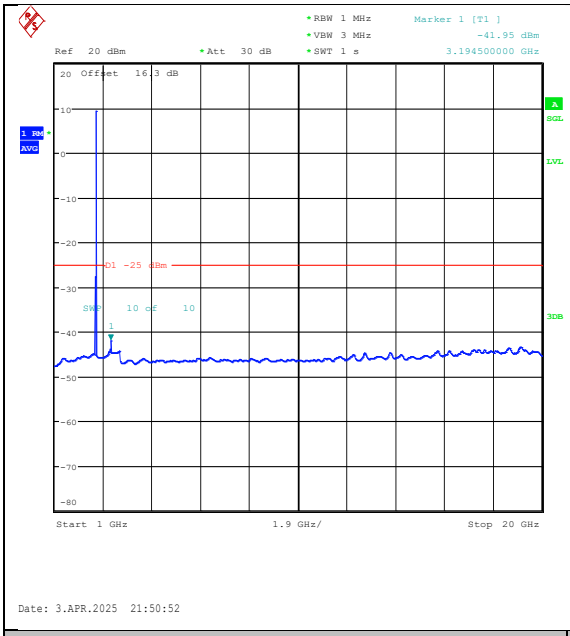


Band38-5MHz-16QAM-38225-1RB#0-30~1000-PASS



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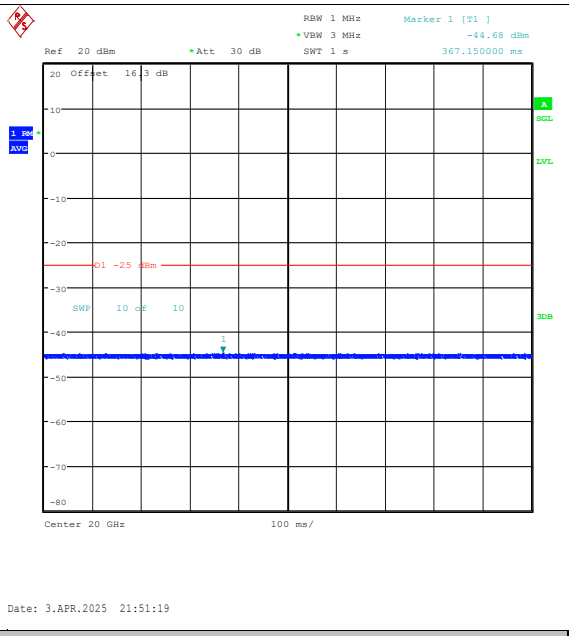

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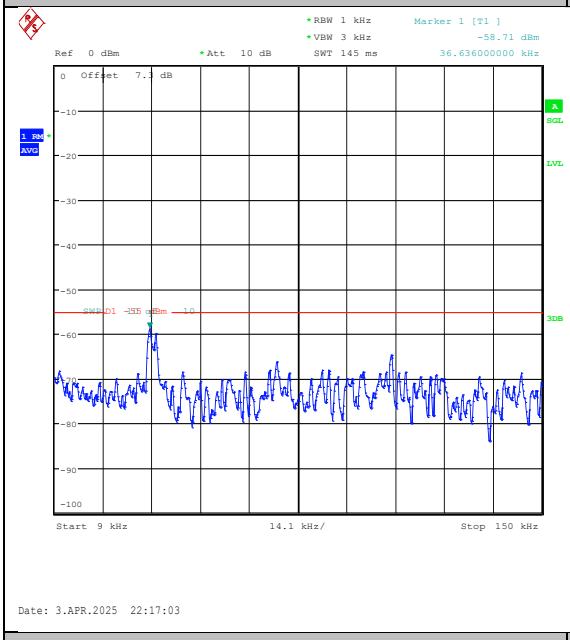

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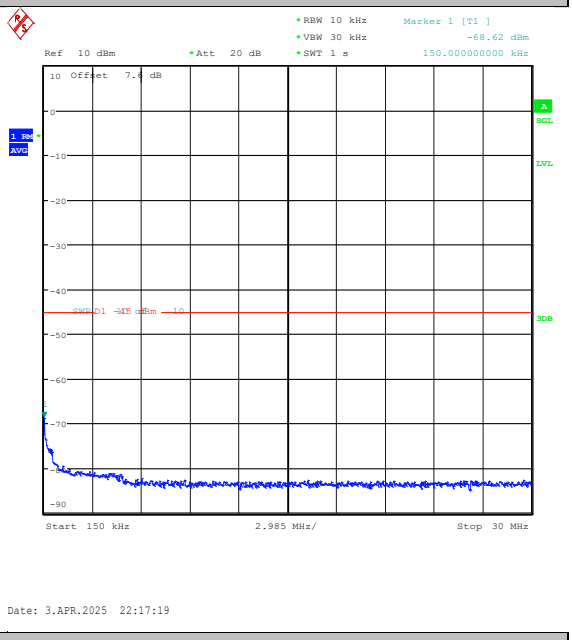

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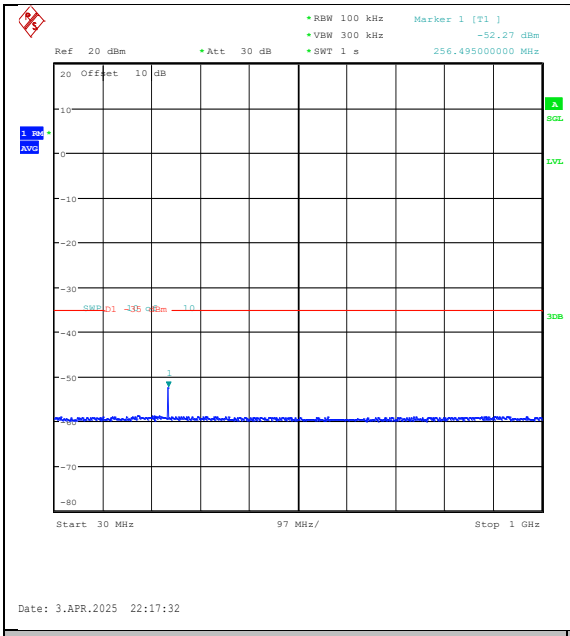

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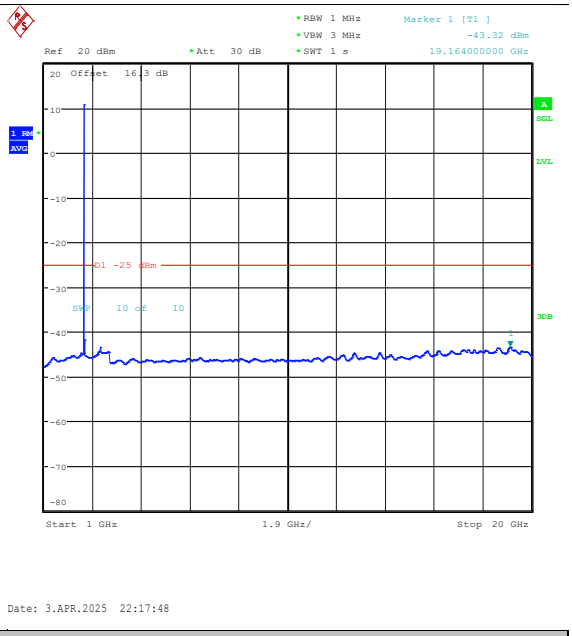

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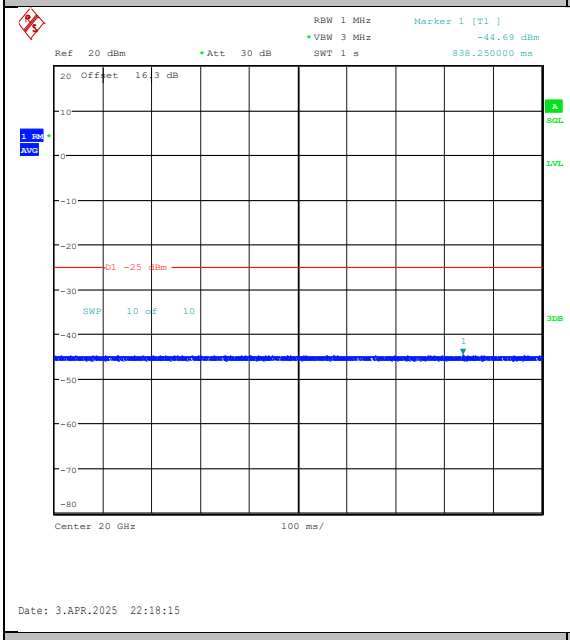

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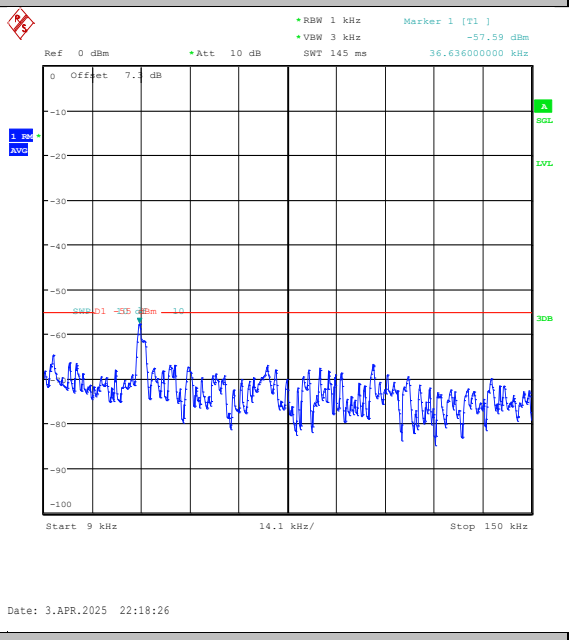
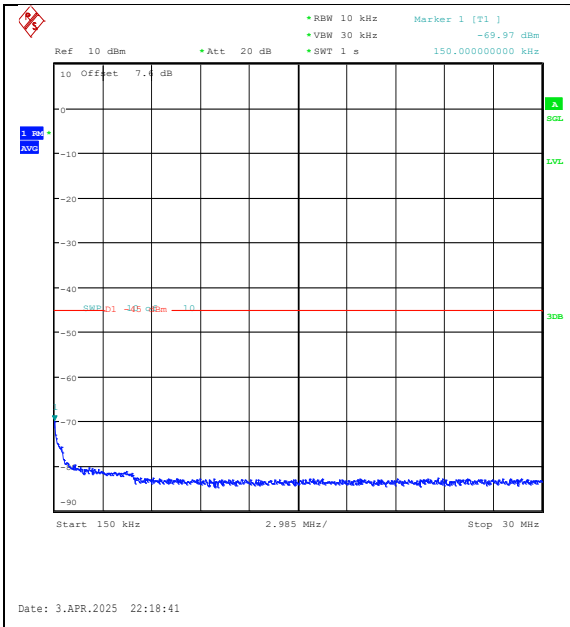
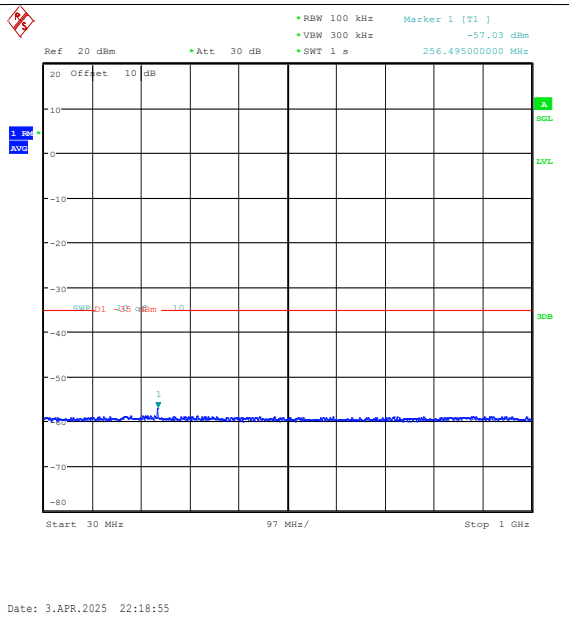
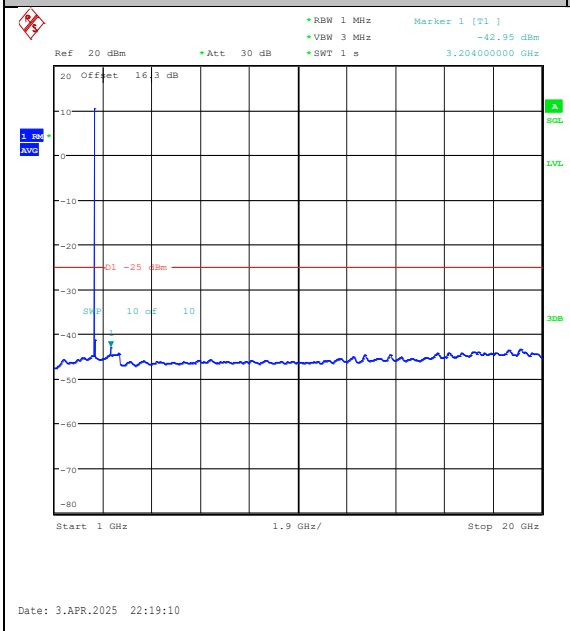


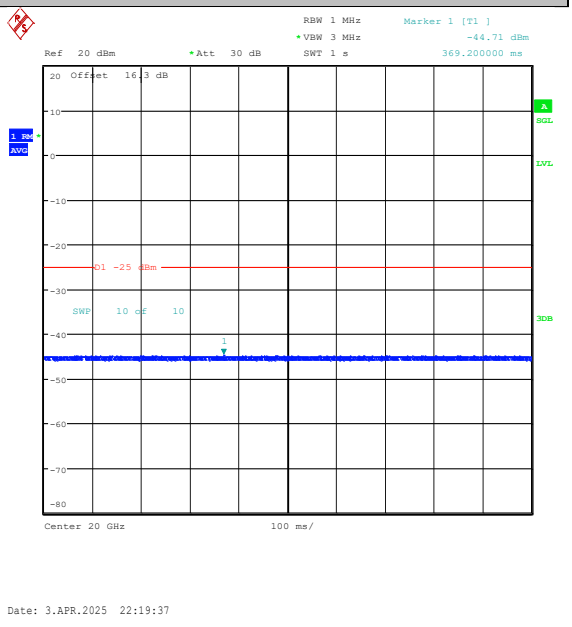
Band38-10MHz-16QAM-37800-1RB#0-0.009~0.15-PASS



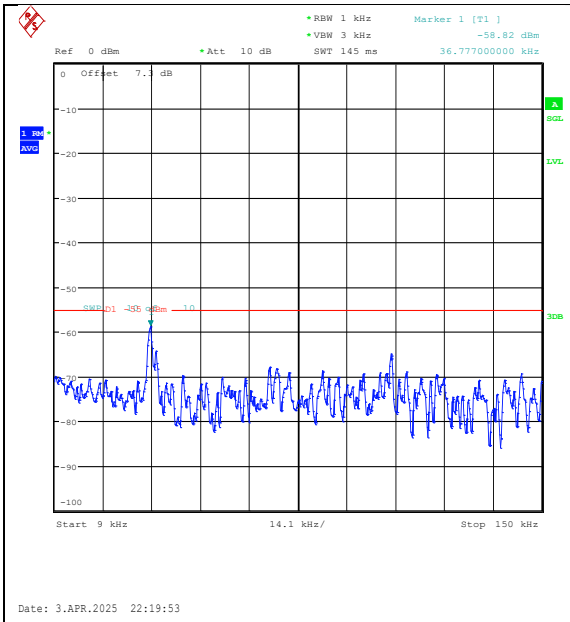


Band38-10MHz-16QAM-37800-1RB#0-0.15~30-PASS	Band38-10MHz-16QAM-37800-1RB#0-30~1000-PASS

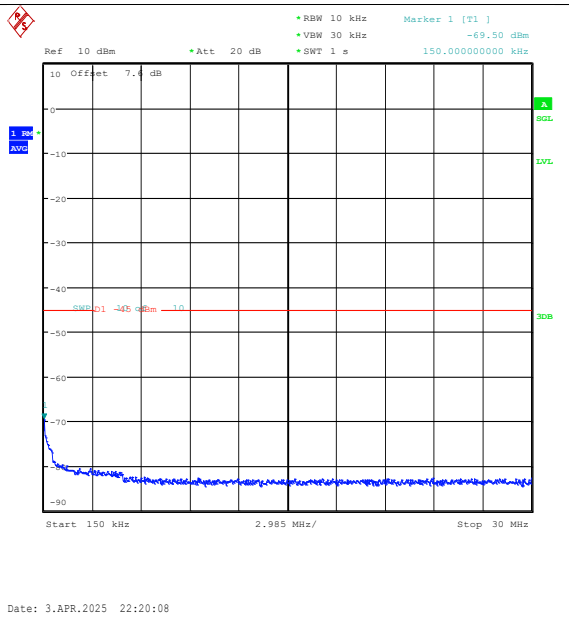




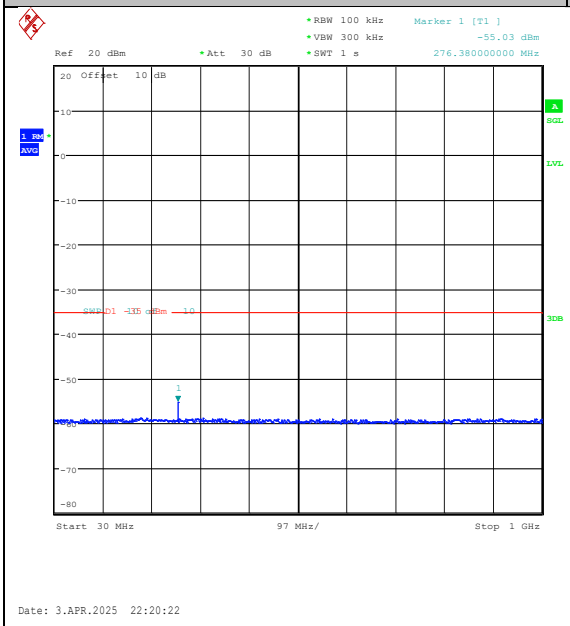
Band38-10MHz-16QAM-37800-1RB#0-1000~20000-PASS	Band38-10MHz-16QAM-37800-1RB#0-20000~27000-PASS



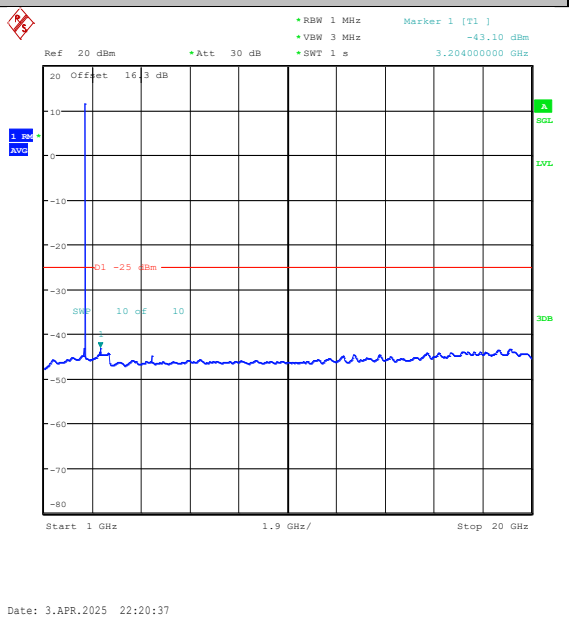
Band38-10MHz-QPSK-38000-1RB#0-0.009~0.15-PASS



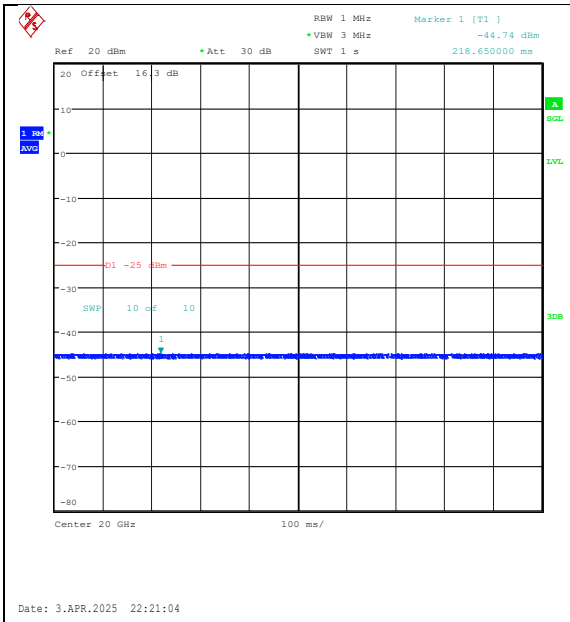
Band38-10MHz-QPSK-38000-1RB#0-0.15~30-PASS



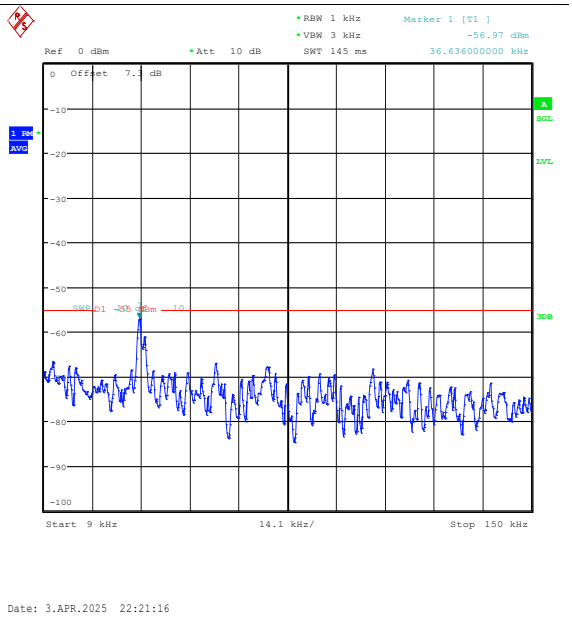
Band38-10MHz-QPSK-38000-1RB#0-30~1000-PASS



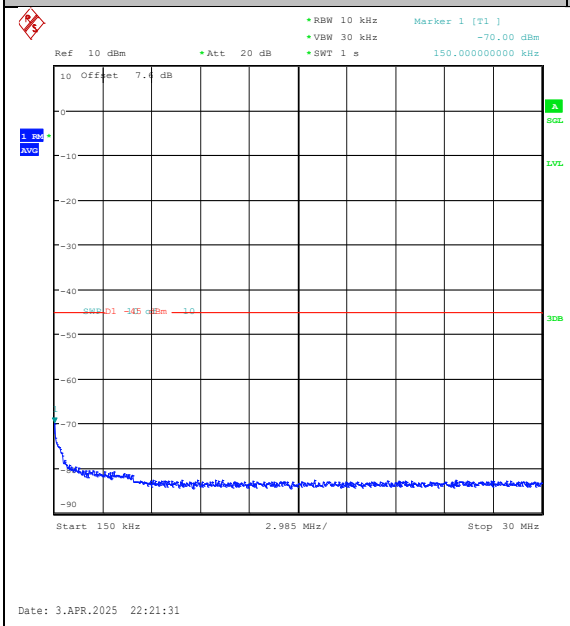
Band38-10MHz-QPSK-38000-1RB#0-1000~20000-PASS



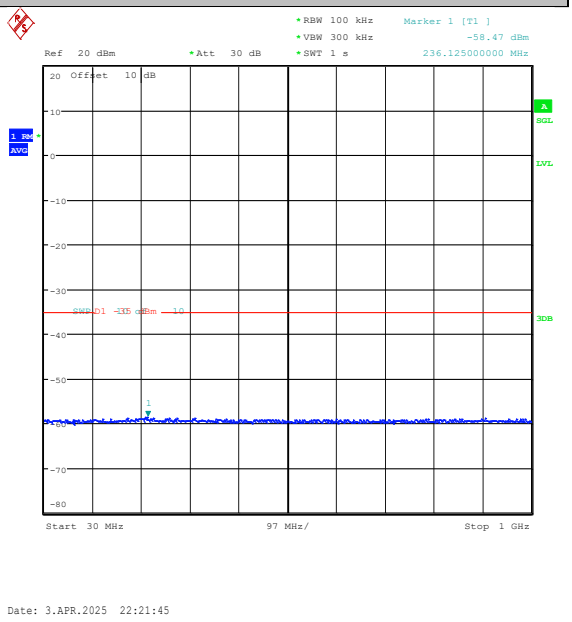
Band38-10MHz-QPSK-38000-1RB#0-20000~27000-PASS



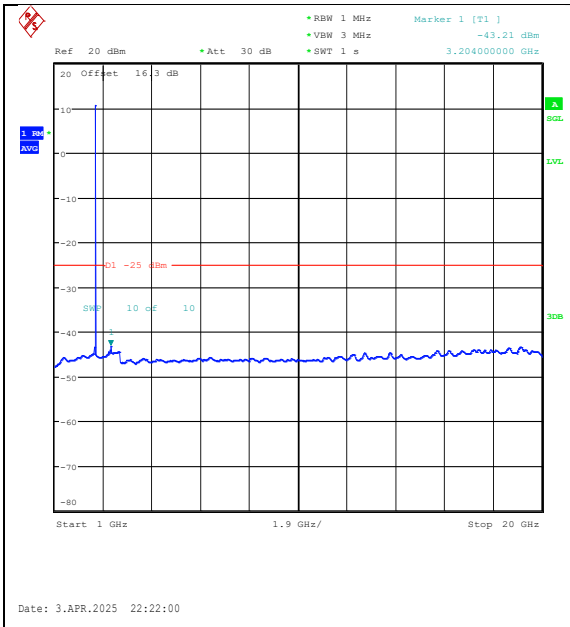
Band38-10MHz-16QAM-38000-1RB#0-0.009~0.15-PASS



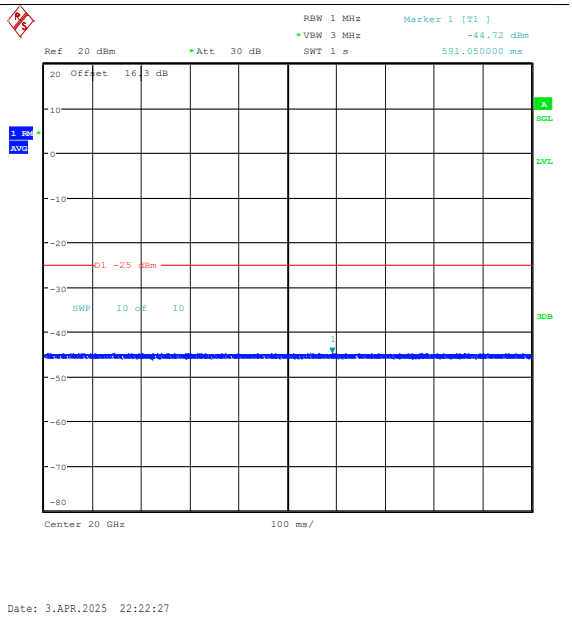
Band38-10MHz-16QAM-38000-1RB#0-0.15~30-PASS



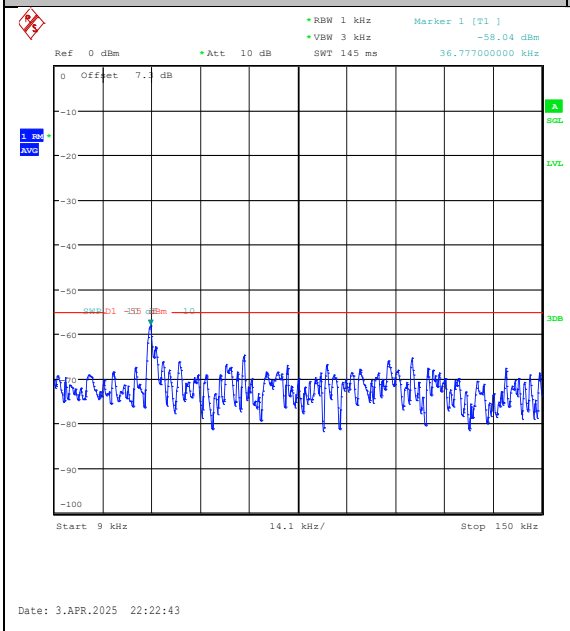
Band38-10MHz-16QAM-38000-1RB#0-30~1000-PASS



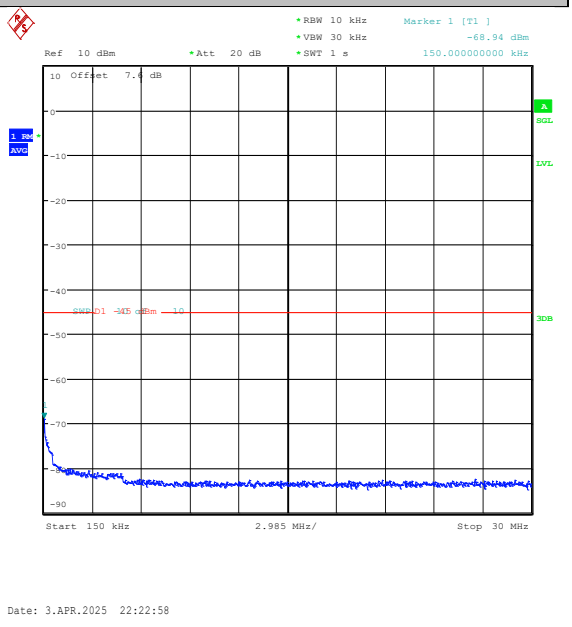
Band38-10MHz-16QAM-38000-1RB#0-1000~20000-PASS



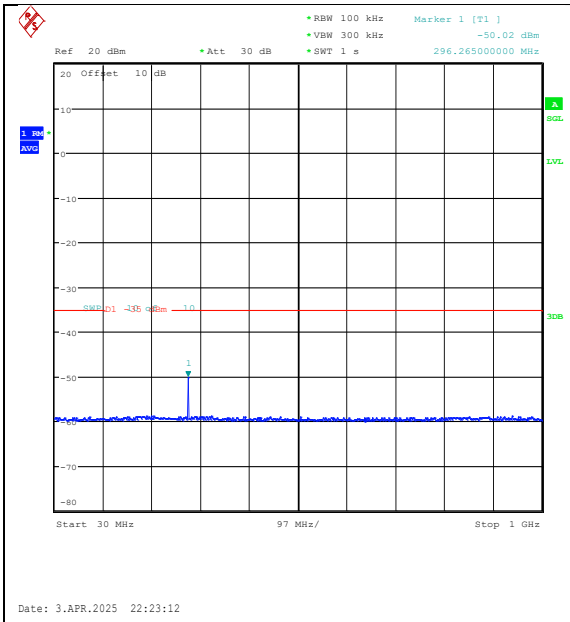
Band38-10MHz-16QAM-38000-1RB#0-20000~27000-PASS



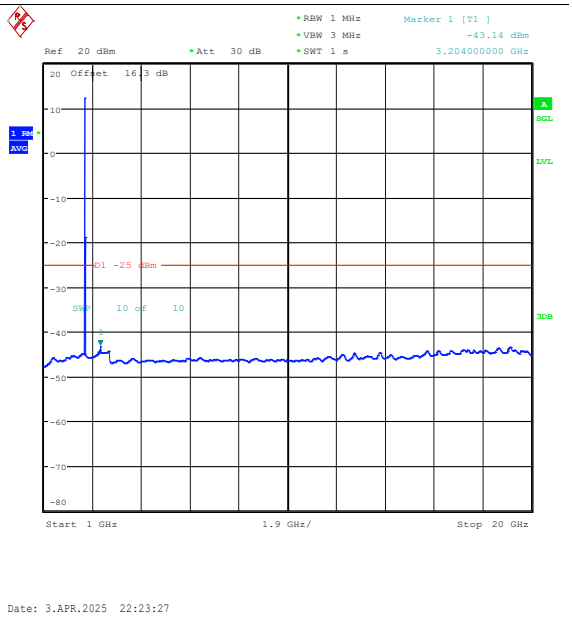
Band38-10MHz-QPSK-38200-1RB#0-0.009~0.15-PASS



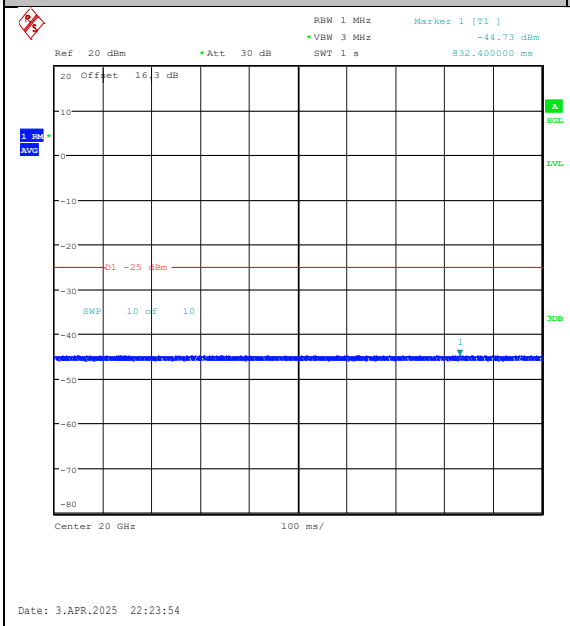
Band38-10MHz-QPSK-38200-1RB#0-0.15~30-PASS



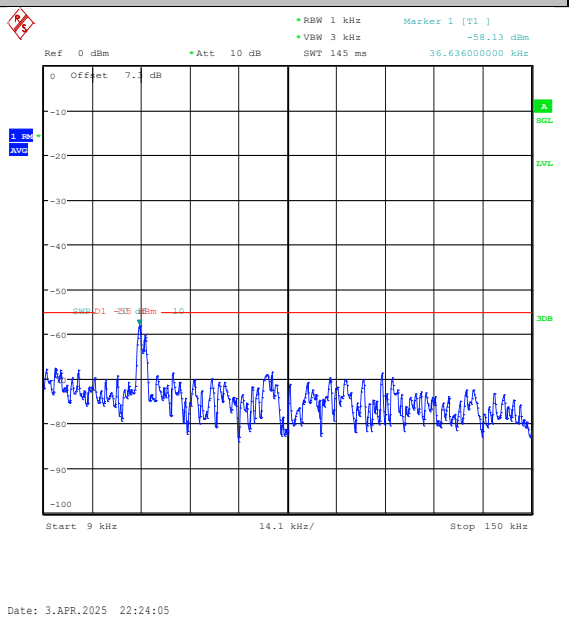
Band38-10MHz-QPSK-38200-1RB#0-30~1000-PASS



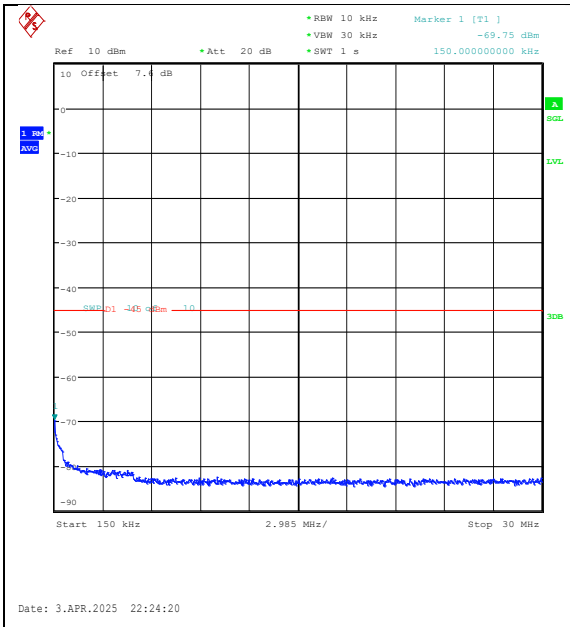
Band38-10MHz-QPSK-38200-1RB#0-1000~20000-PASS



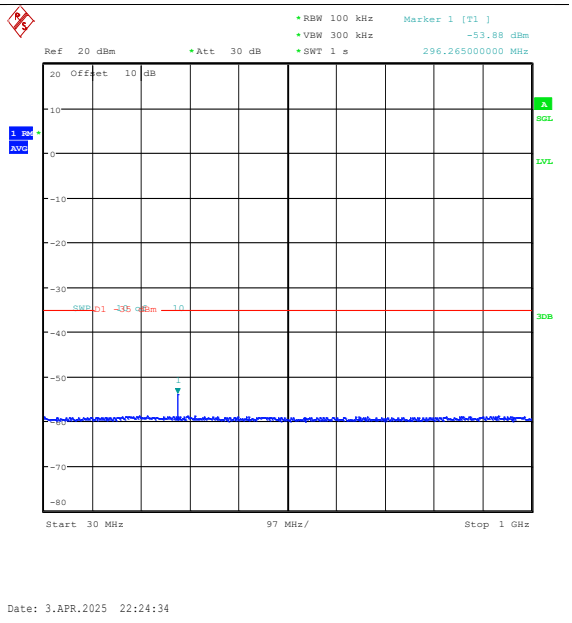
Band38-10MHz-QPSK-38200-1RB#0-20000~27000-PASS



Band38-10MHz-16QAM-38200-1RB#0-0.009~0.15-PASS



Band38-10MHz-16QAM-38200-1RB#0-0.15~30-PASS



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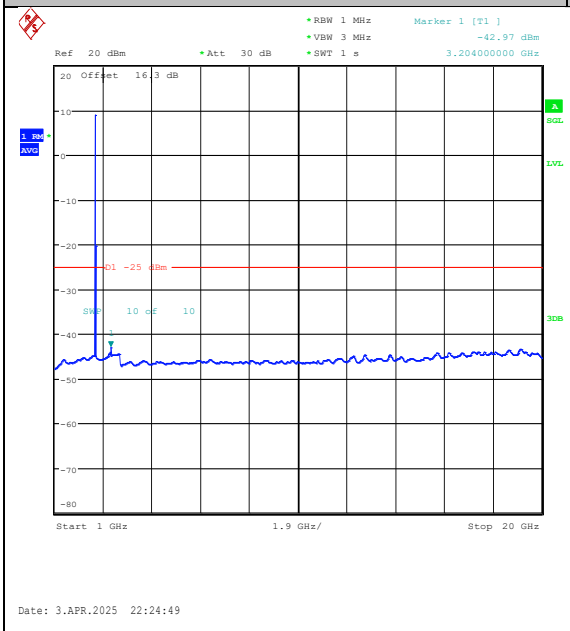

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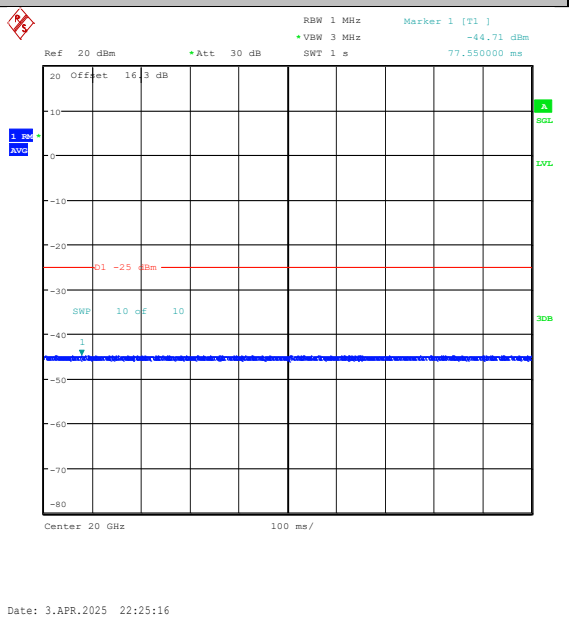

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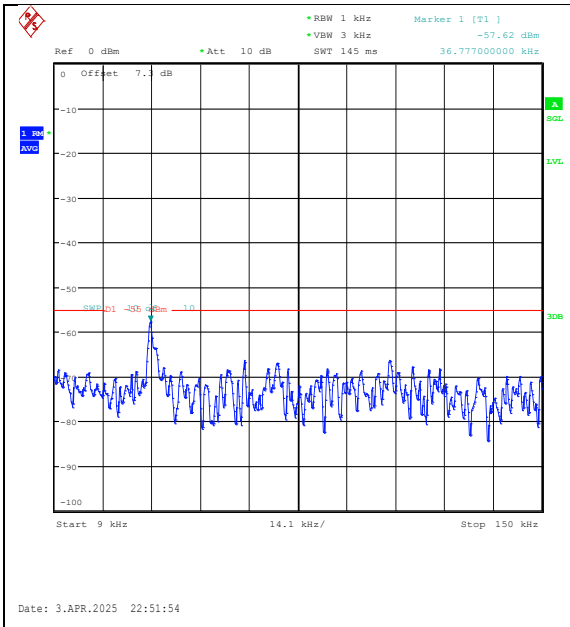
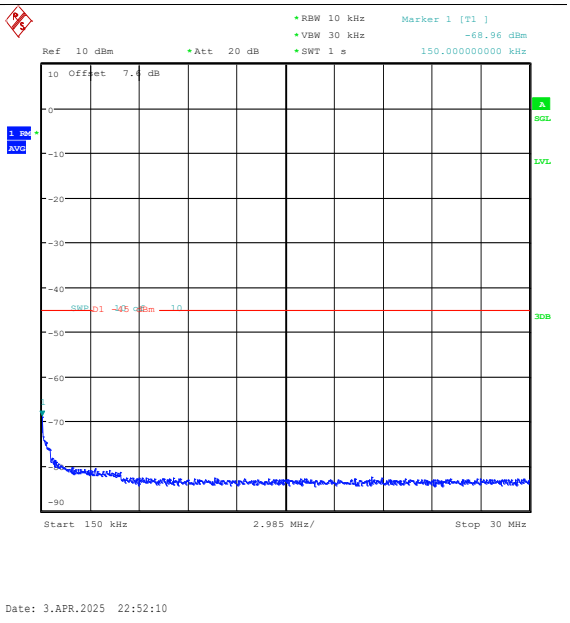


Band38-15MHz-QPSK-37825-1RB#0-0.009~0.15-PASS



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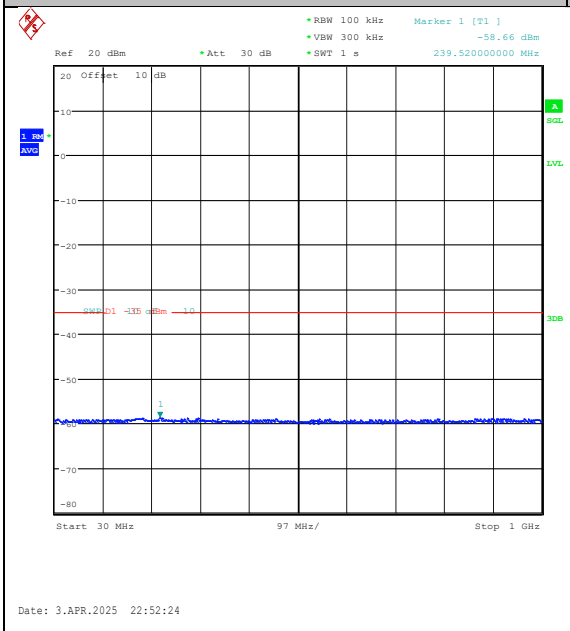

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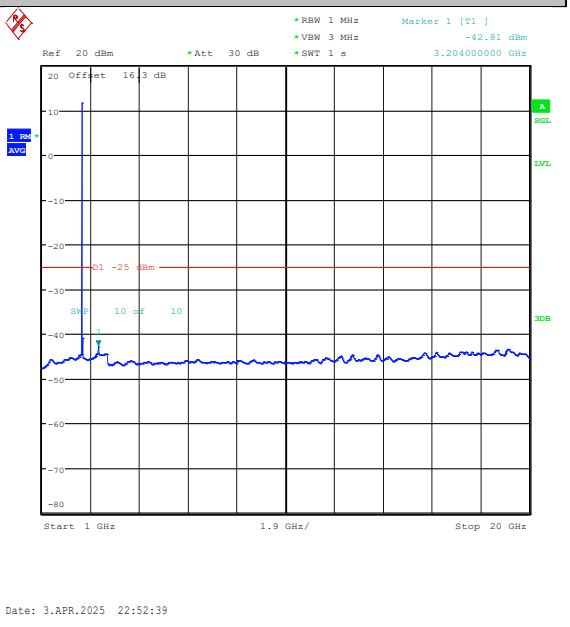
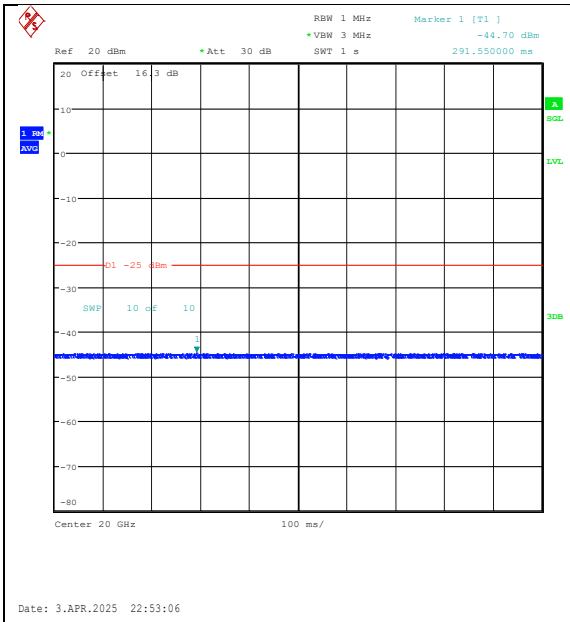
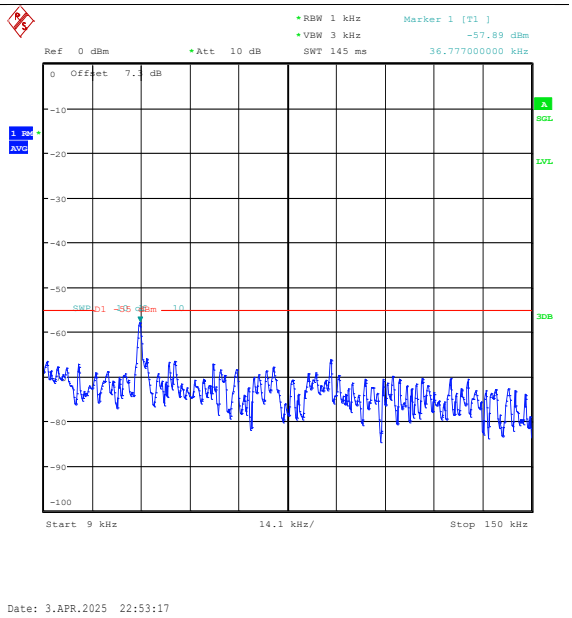


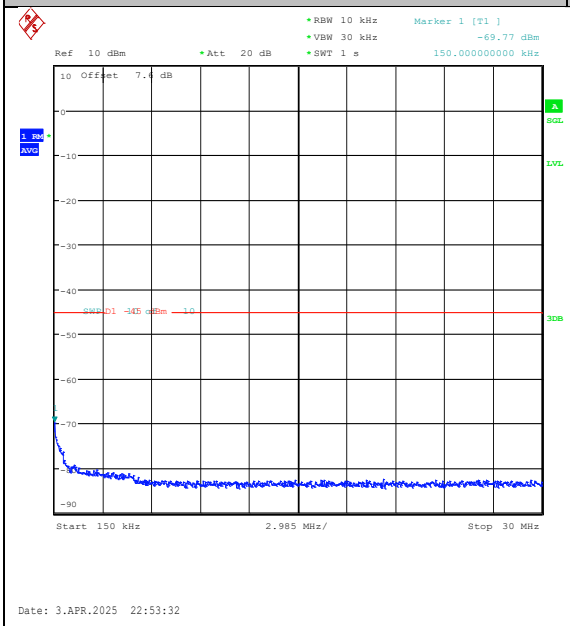
Band38-15MHz-QPSK-37825-1RB#0-1000~20000-PASS



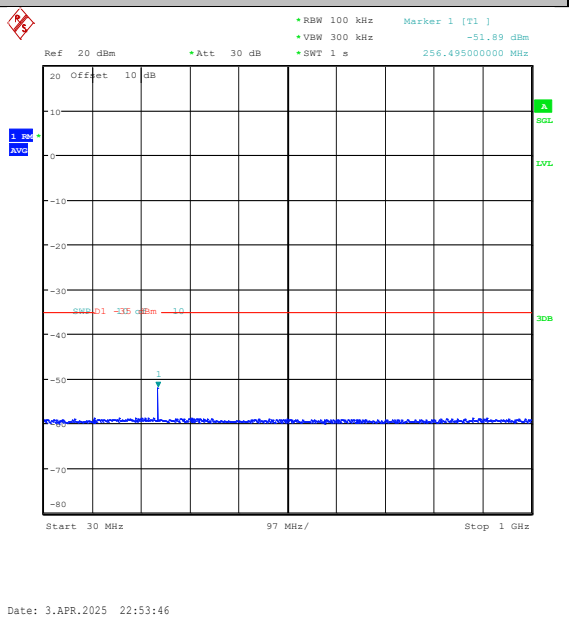
Band38-15MHz-QPSK-37825-1RB#0-20000~27000-PASS



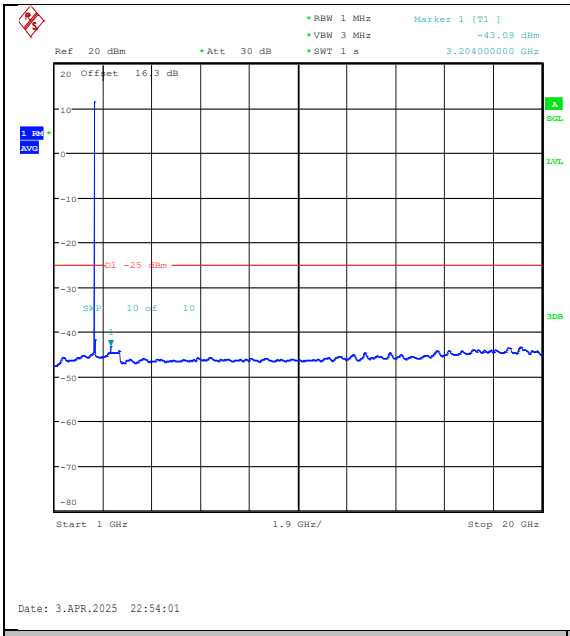
Band38-15MHz-16QAM-37825-1RB#0-0.009~0.15-PASS



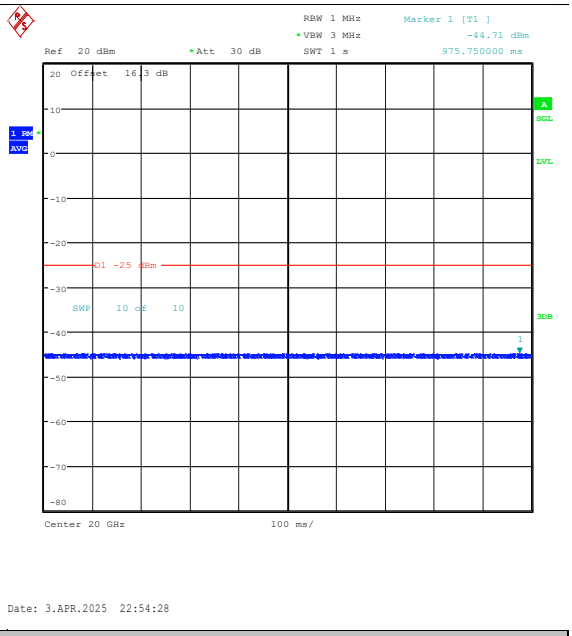
Band38-15MHz-16QAM-37825-1RB#0-0.15~30-PASS



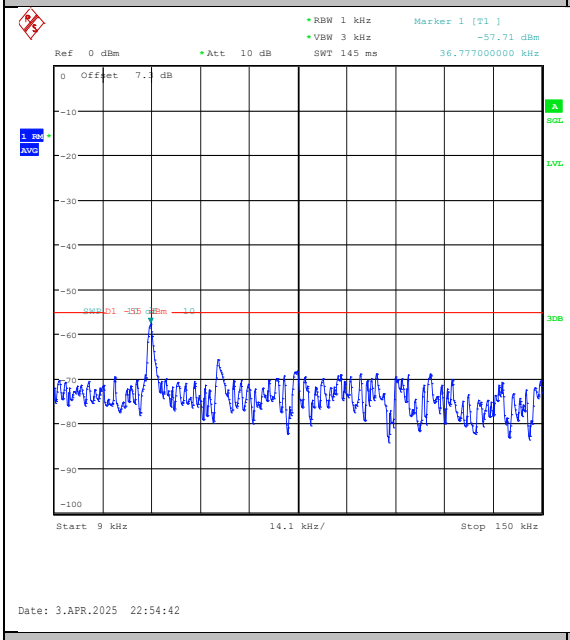
Band38-15MHz-16QAM-37825-1RB#0-30~1000-PASS



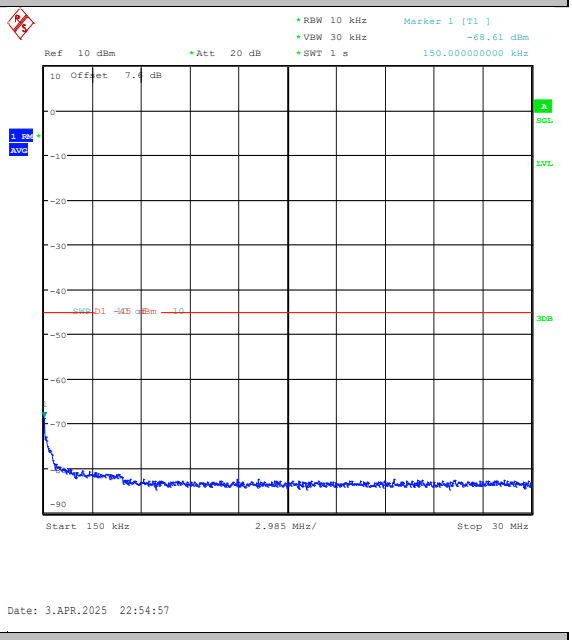
Band38-15MHz-16QAM-37825-1RB#0-1000~20000-PASS



Band38-15MHz-16QAM-37825-1RB#0-20000~27000-PASS



Band38-15MHz-QPSK-38000-1RB#0-0.009~0.15-PASS



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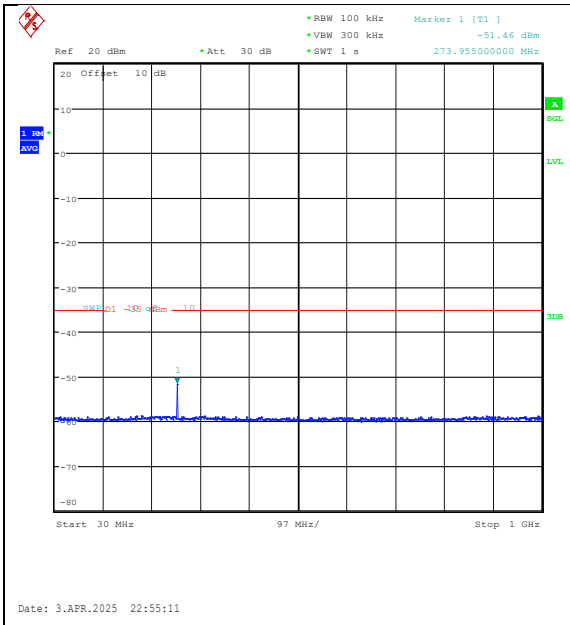
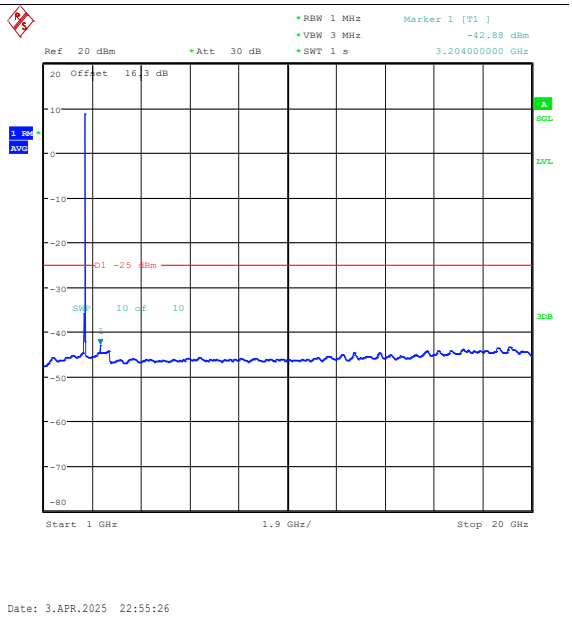


Band38-15MHz-QPSK-38000-1RB#0-30~1000-PASS



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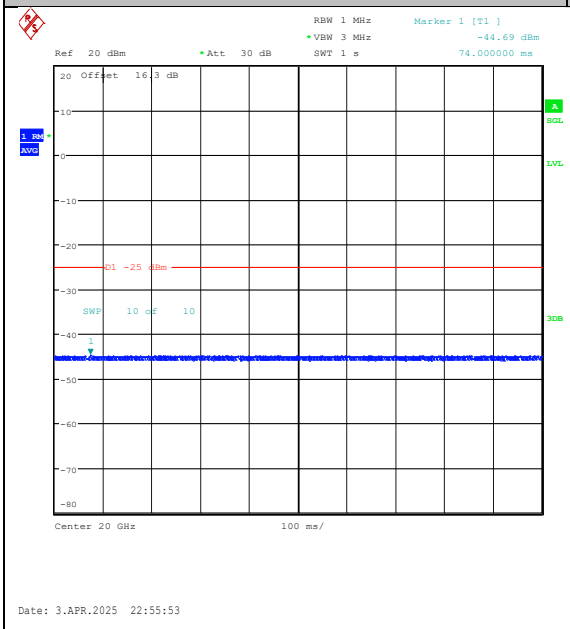

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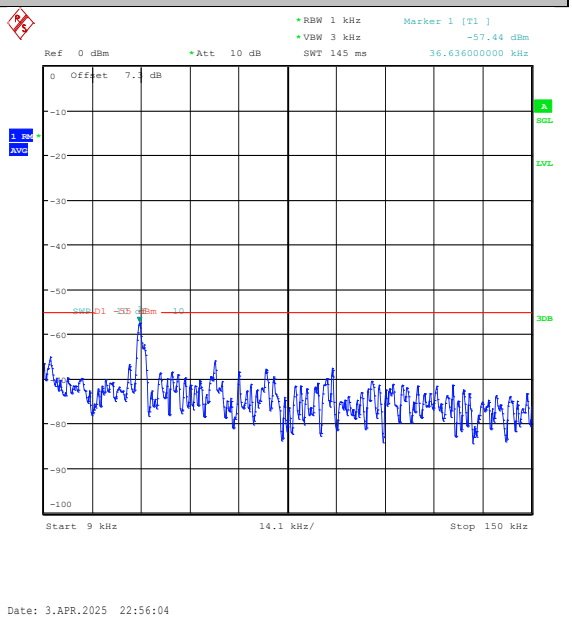
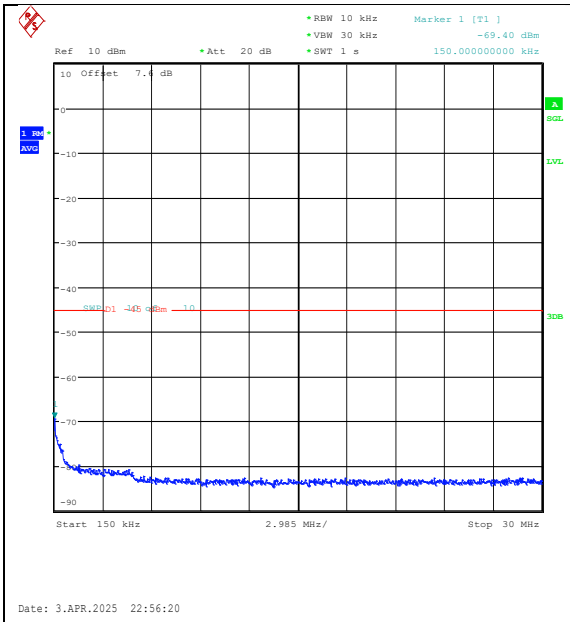


Band38-15MHz-16QAM-38000-1RB#0-0.009~0.15-PASS



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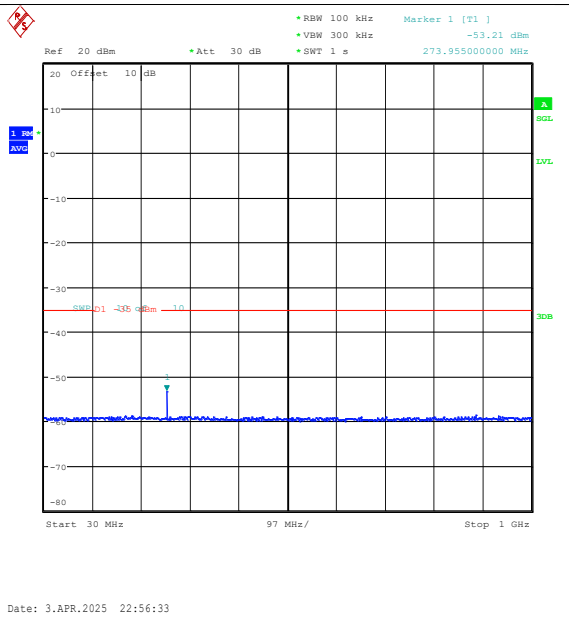
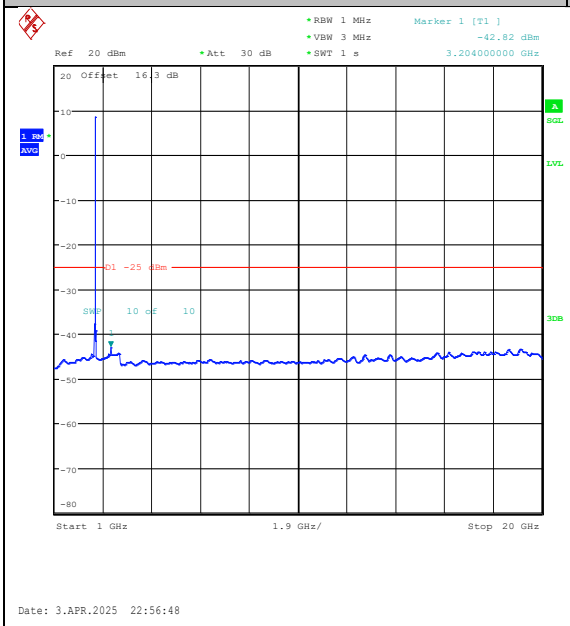
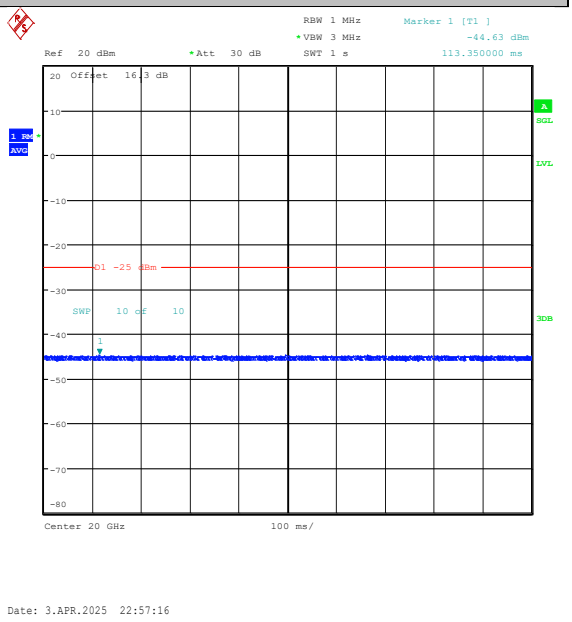


Band38-15MHz-16QAM-38000-1RB#0-30~1000-PASS



Band38-15MHz-16QAM-38000-1RB#0-1000~20000-PASS



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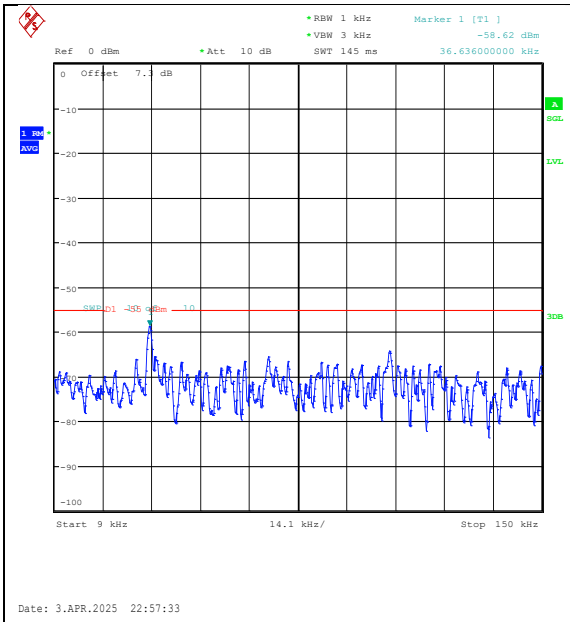
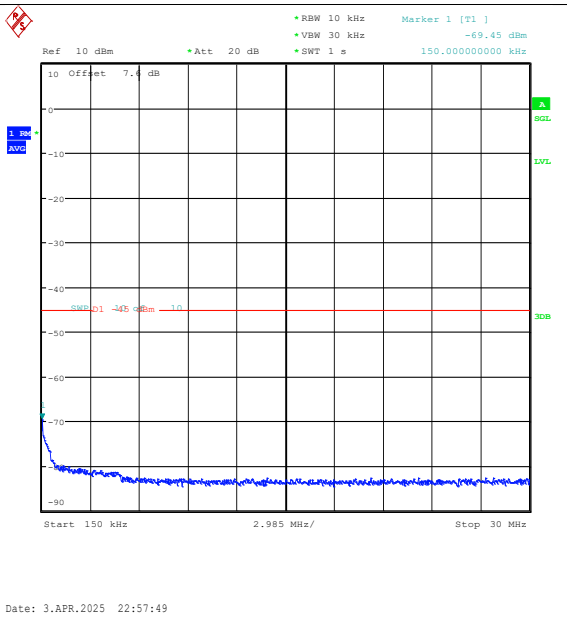


Band38-15MHz-QPSK-38175-1RB#0-0.009~0.15-PASS



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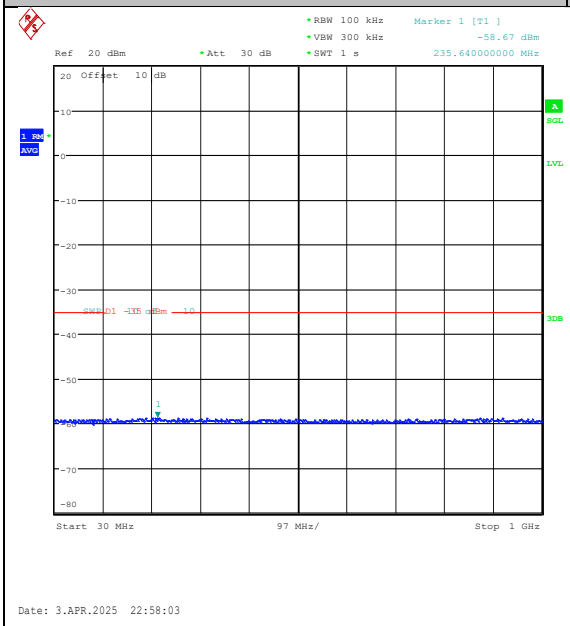

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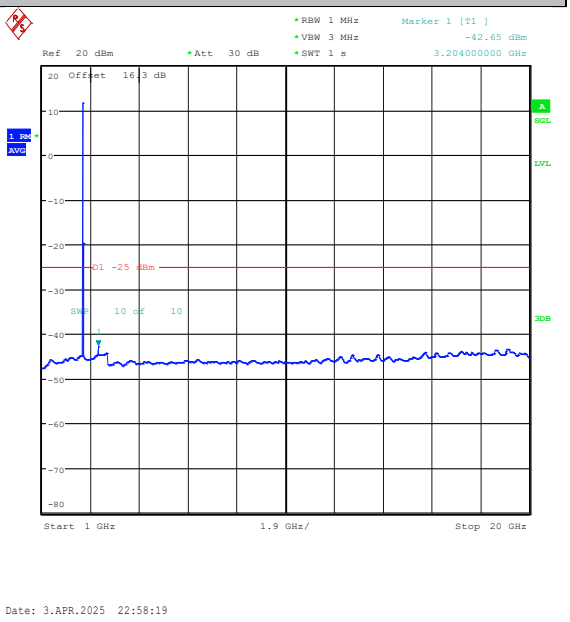

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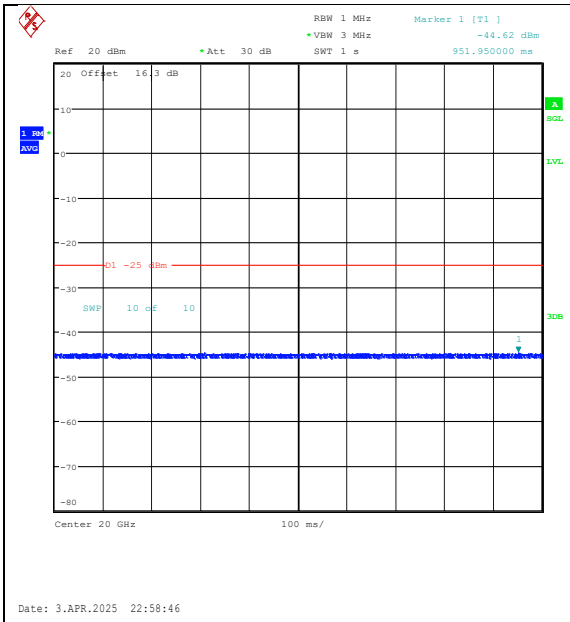
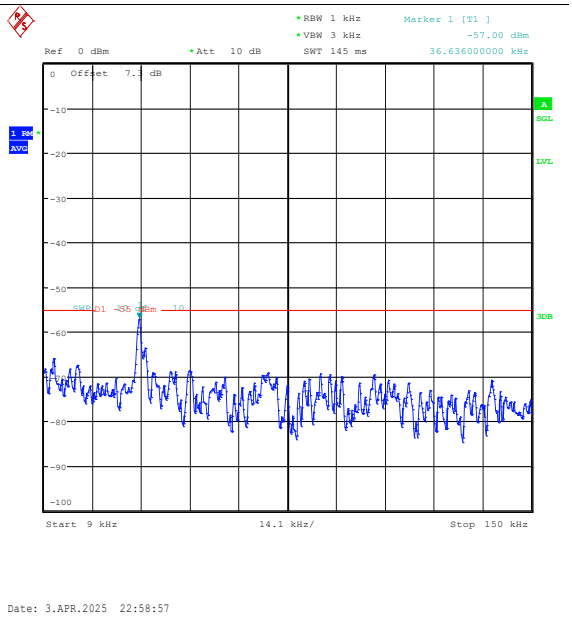
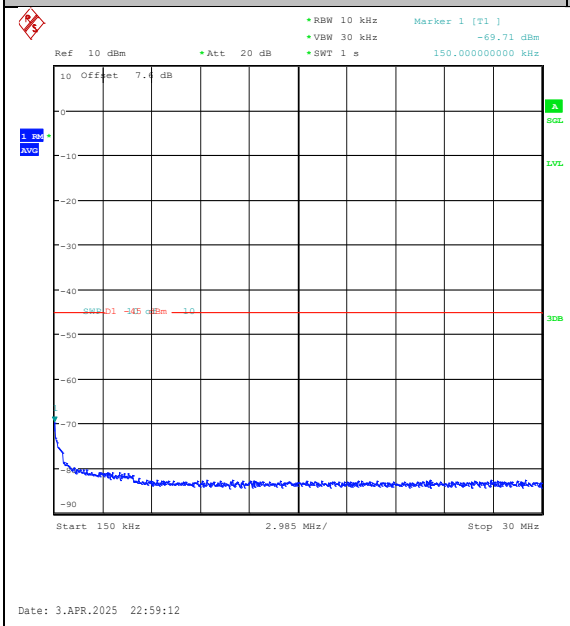
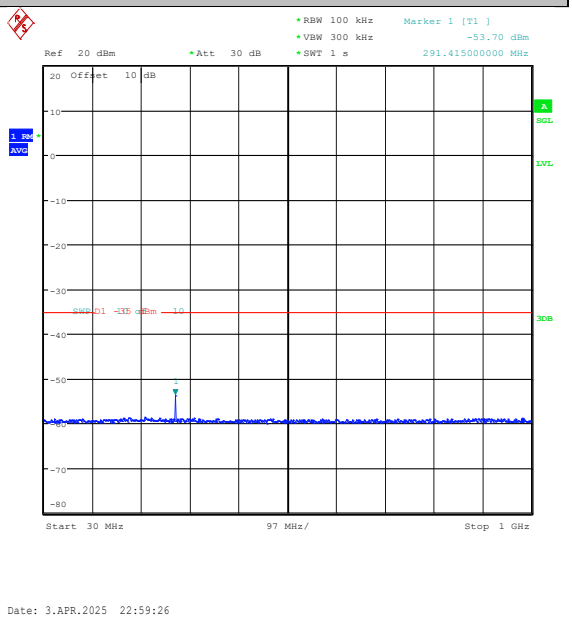


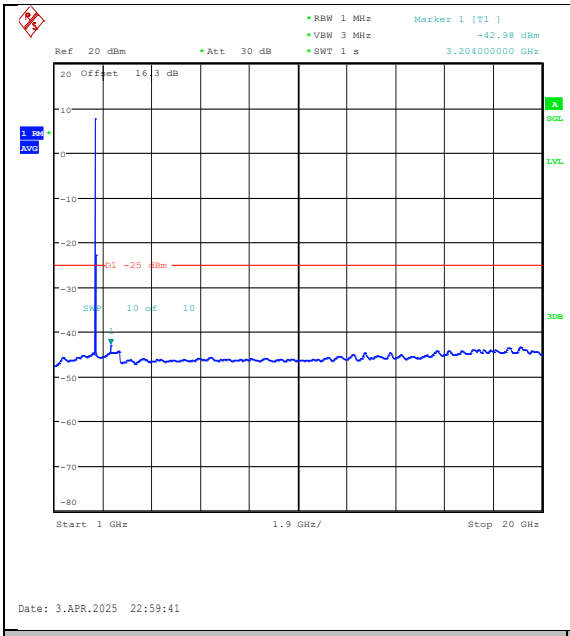


Band38-15MHz-QPSK-38175-1RB#0-20000~27000-PASS	Band38-15MHz-16QAM-38175-1RB#0-0.009~0.15-PASS

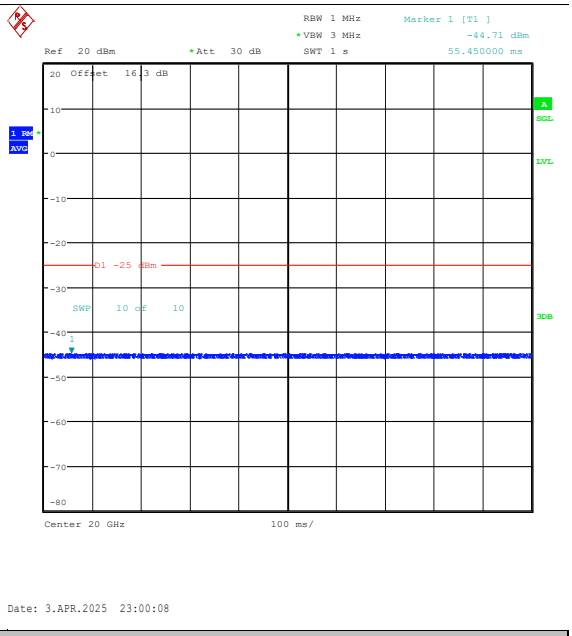




Band38-15MHz-16QAM-38175-1RB#0-0.15~30-PASS	Band38-15MHz-16QAM-38175-1RB#0-30~1000-PASS



Band38-15MHz-16QAM-38175-1RB#0-1000~20000-PASS



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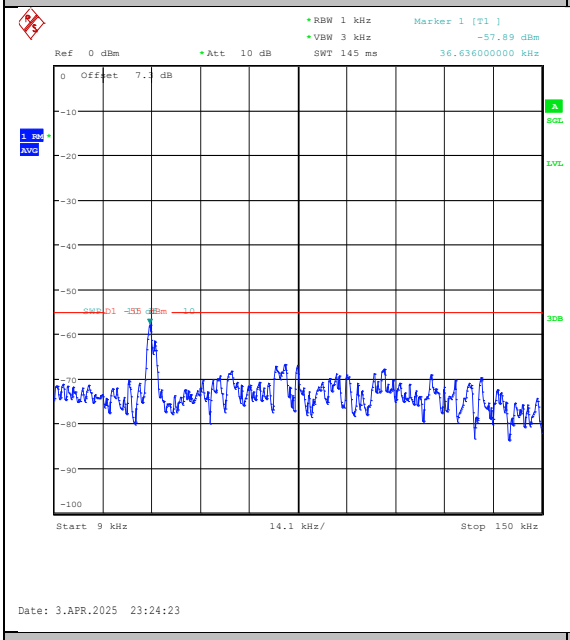

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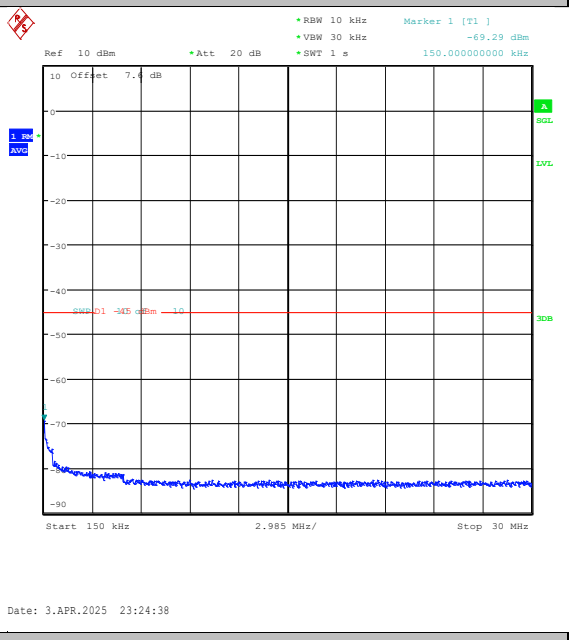
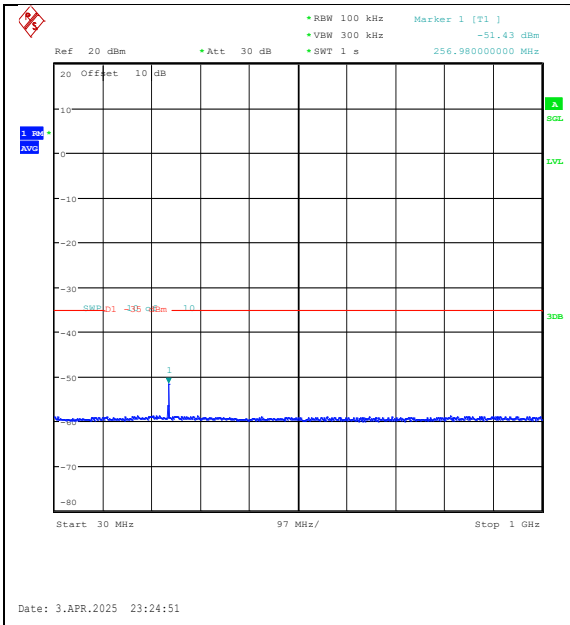
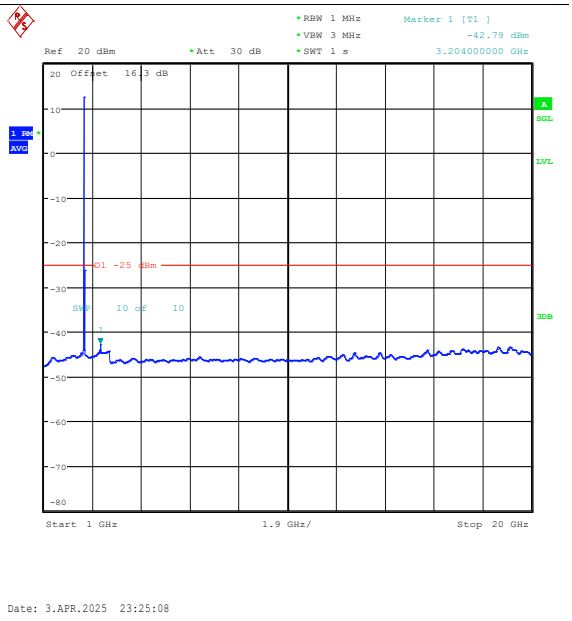


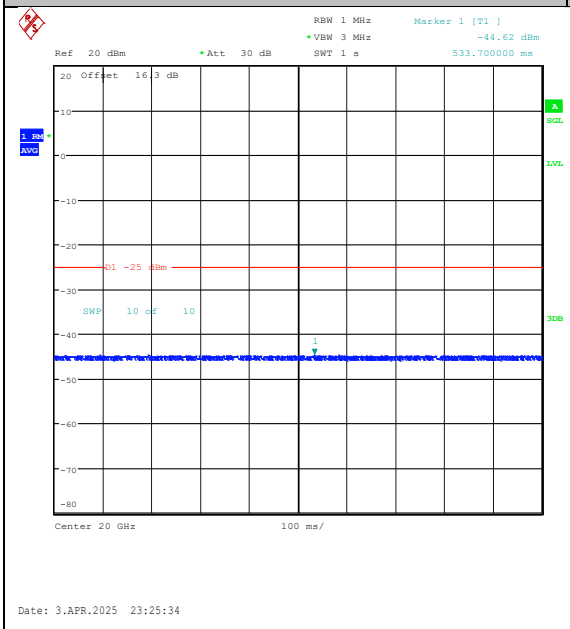
Band38-20MHz-QPSK-37850-1RB#0-0.15~30-PASS



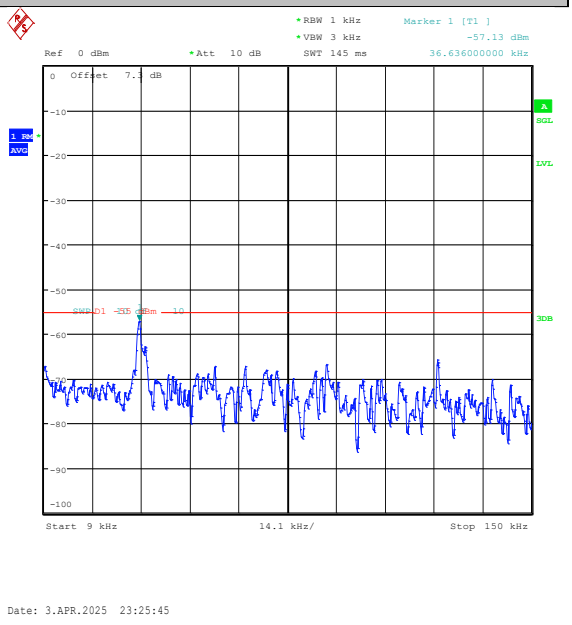
Band38-20MHz-QPSK-37850-1RB#0-30~1000-PASS



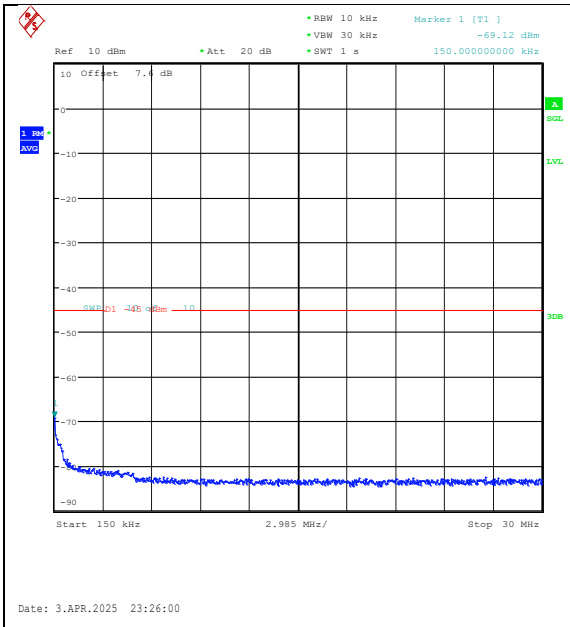
Band38-20MHz-QPSK-37850-1RB#0-1000~20000-PASS



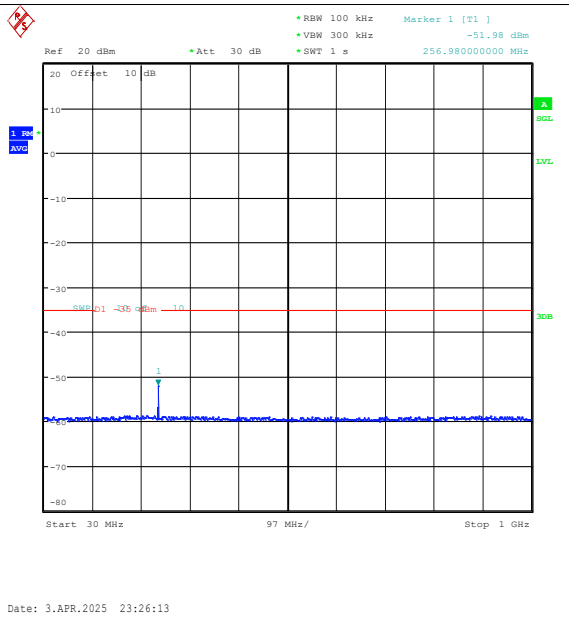
Band38-20MHz-QPSK-37850-1RB#0-20000~27000-PASS



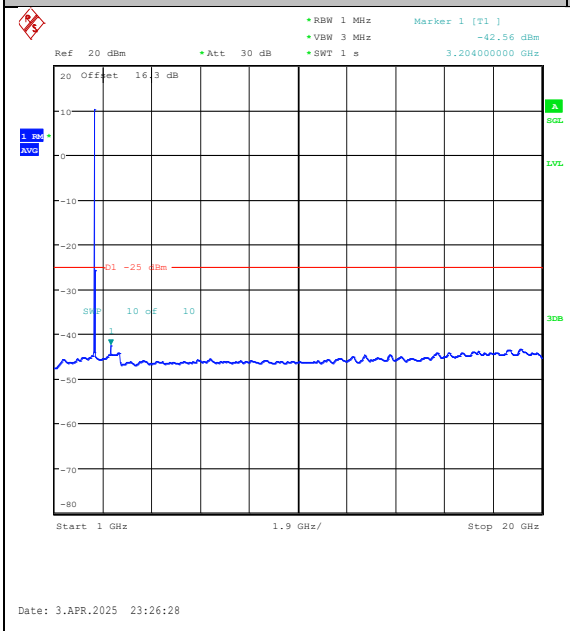
Band38-20MHz-16QAM-37850-1RB#0-0.009~0.15-PASS



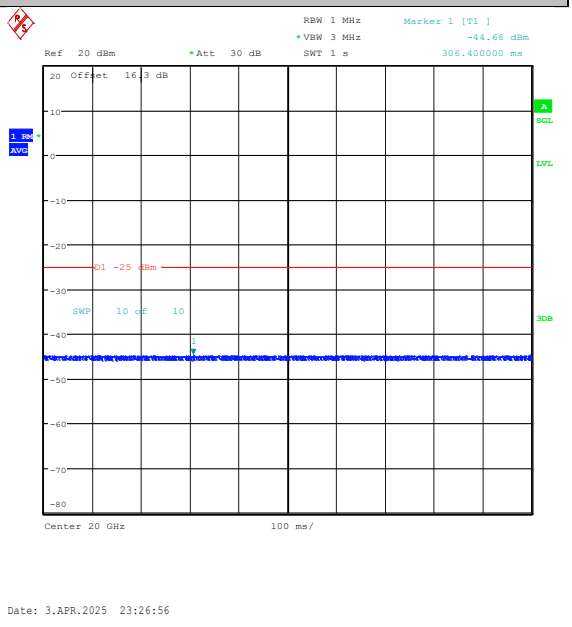
Band38-20MHz-16QAM-37850-1RB#0-0.15~30-PASS



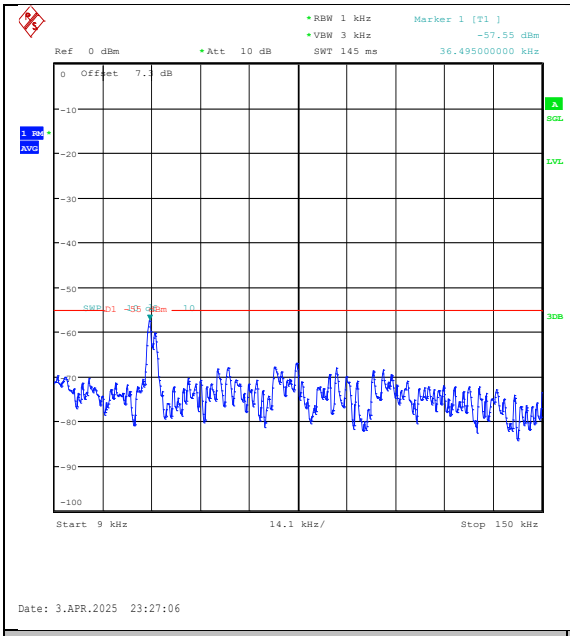
Band38-20MHz-16QAM-37850-1RB#0-30~1000-PASS



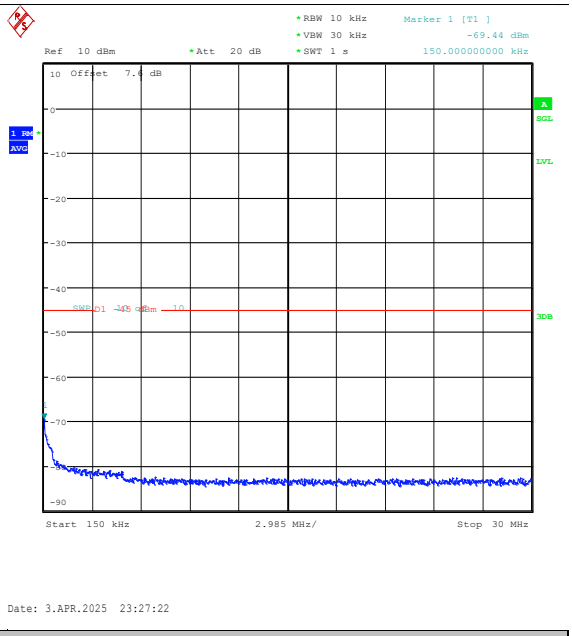
Band38-20MHz-16QAM-37850-1RB#0-1000~20000-PASS



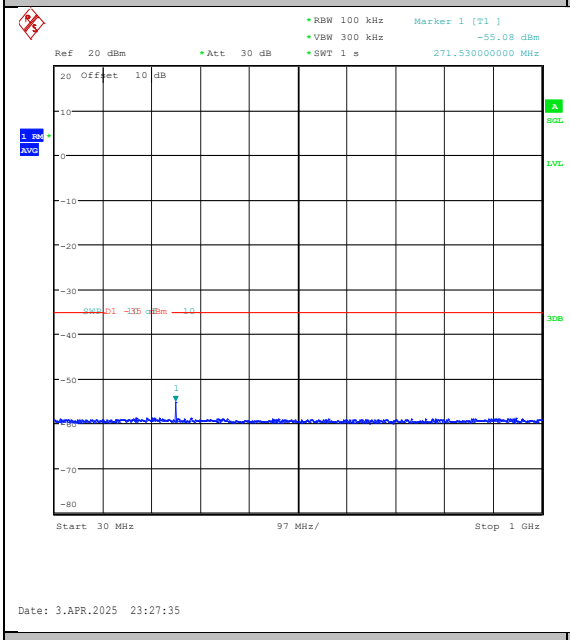
Band38-20MHz-16QAM-37850-1RB#0-20000~27000-PASS



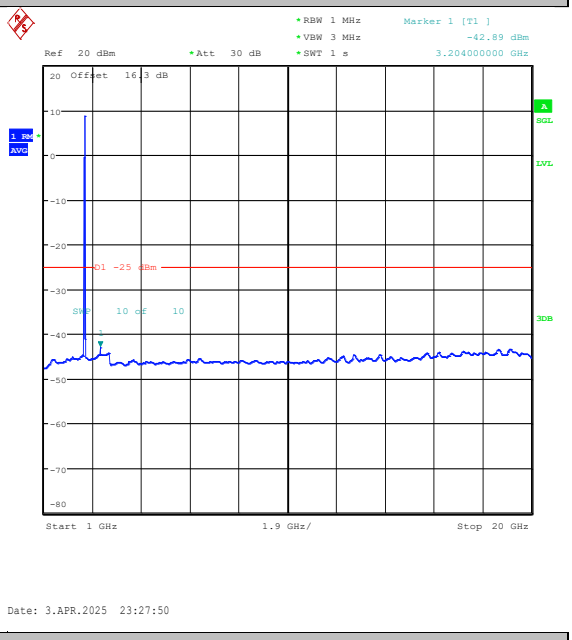
Band38-20MHz-QPSK-38000-1RB#0-0.009~0.15-PASS



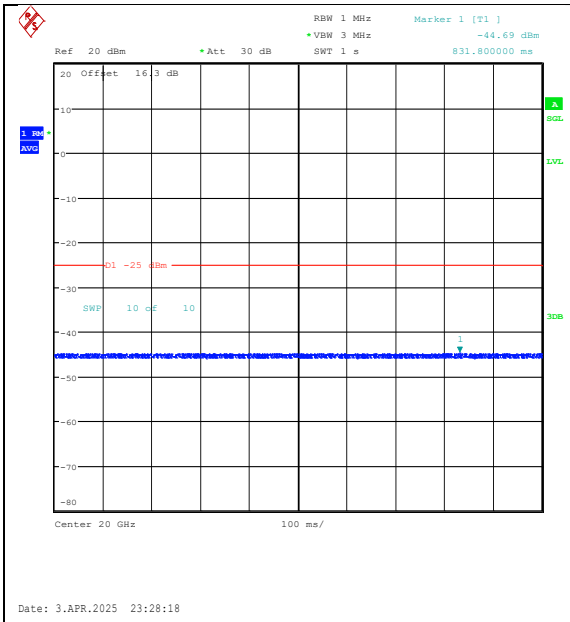
Band38-20MHz-QPSK-38000-1RB#0-0.15~30-PASS



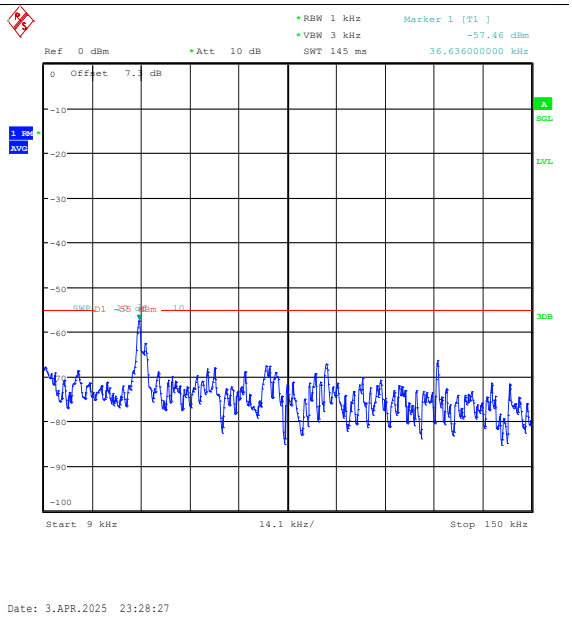
Band38-20MHz-QPSK-38000-1RB#0-30~1000-PASS



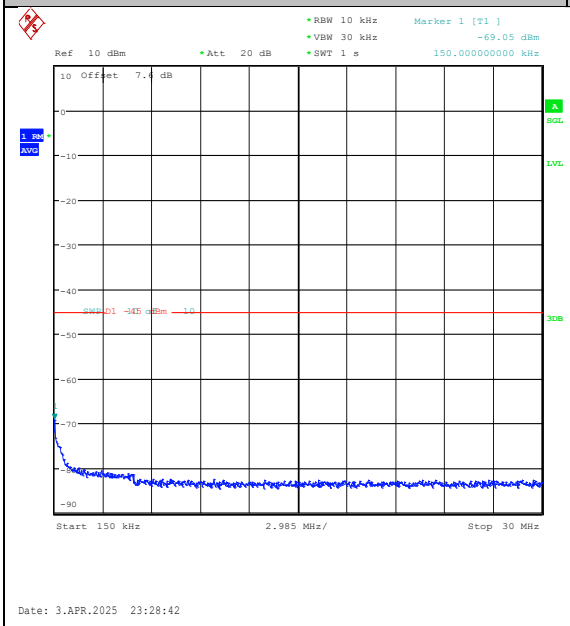
Band38-20MHz-QPSK-38000-1RB#0-1000~20000-PASS



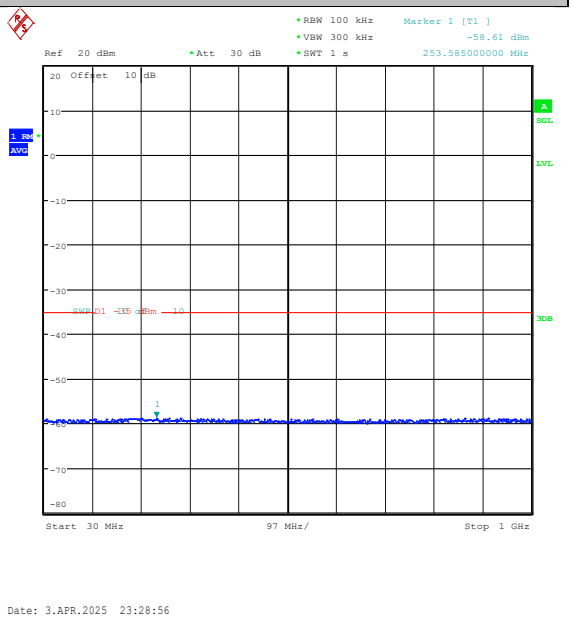
Band38-20MHz-QPSK-38000-1RB#0-20000~27000-PASS



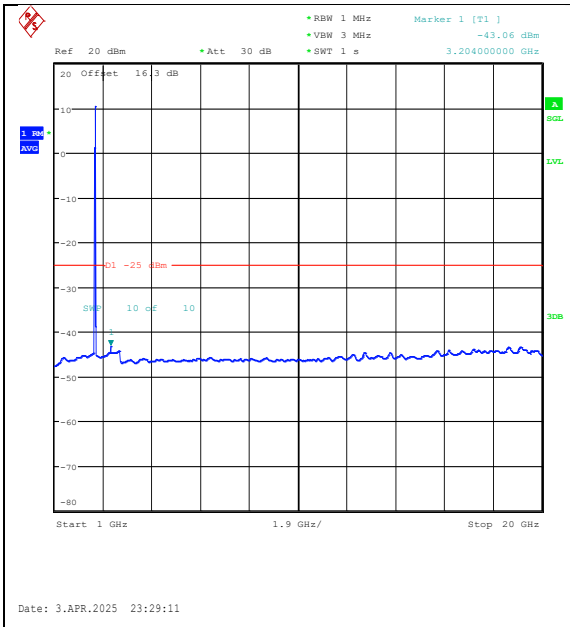
Band38-20MHz-16QAM-38000-1RB#0-0.009~0.15-PASS



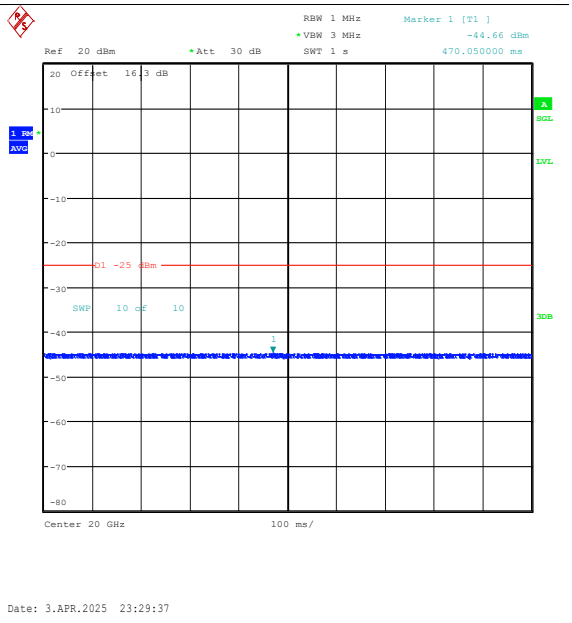
Band38-20MHz-16QAM-38000-1RB#0-0.15~30-PASS



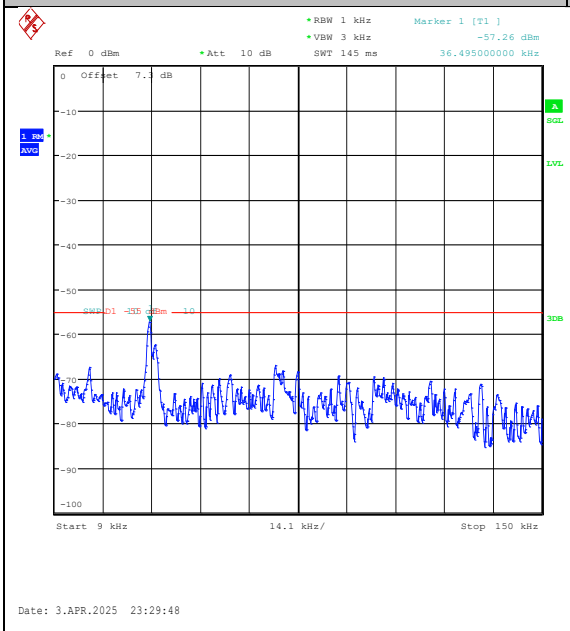
Band38-20MHz-16QAM-38000-1RB#0-30~1000-PASS



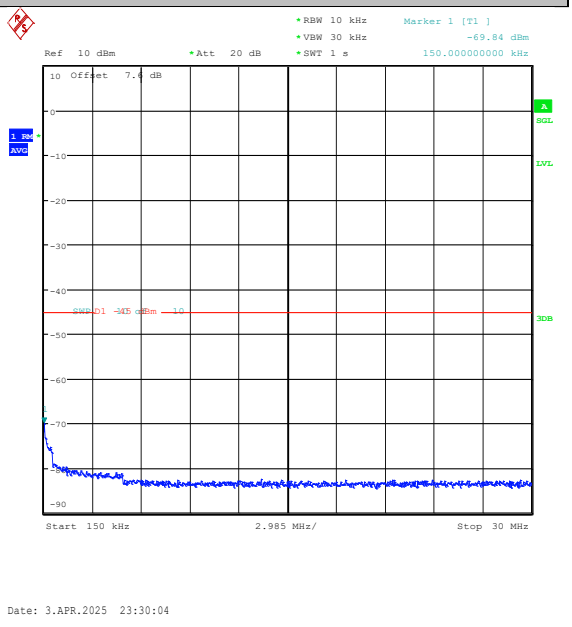
Band38-20MHz-16QAM-38000-1RB#0-1000~20000-PASS



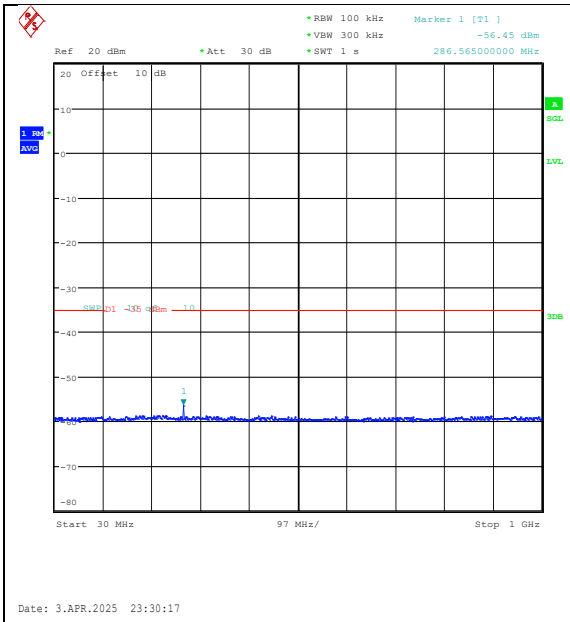
Band38-20MHz-16QAM-38000-1RB#0-20000~27000-PASS

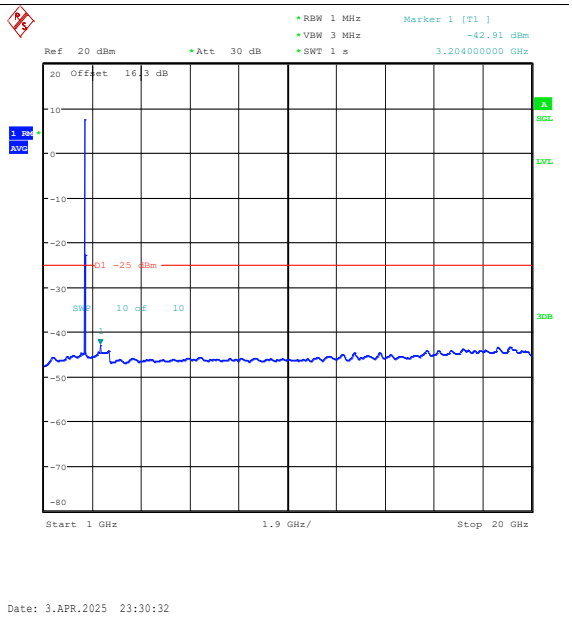


Band38-20MHz-QPSK-38150-1RB#0-0.009~0.15-PASS

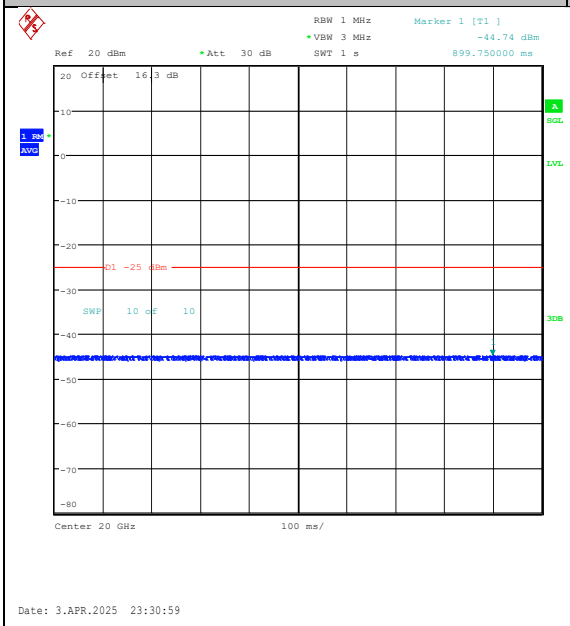


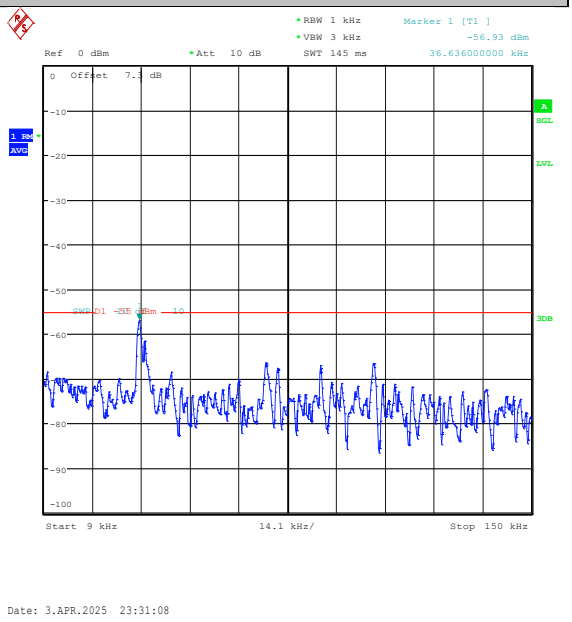
Band38-20MHz-QPSK-38150-1RB#0-0.15~30-PASS



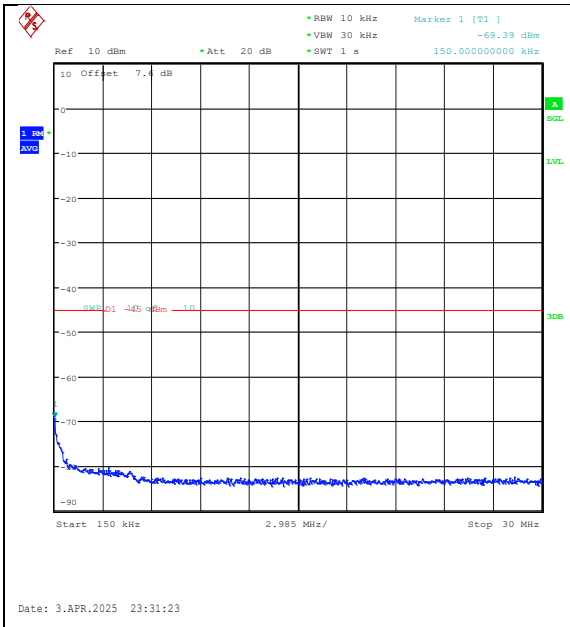


Band38-20MHz-QPSK-38150-1RB#0-30~1000-PASS	Band38-20MHz-QPSK-38150-1RB#0-1000~20000-PASS

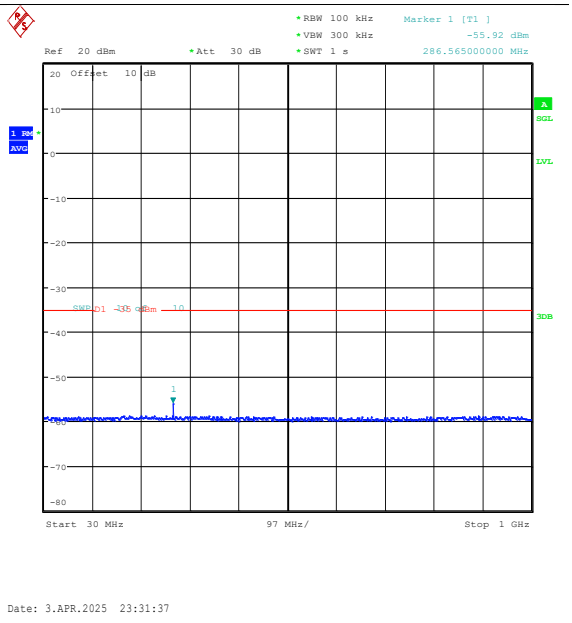




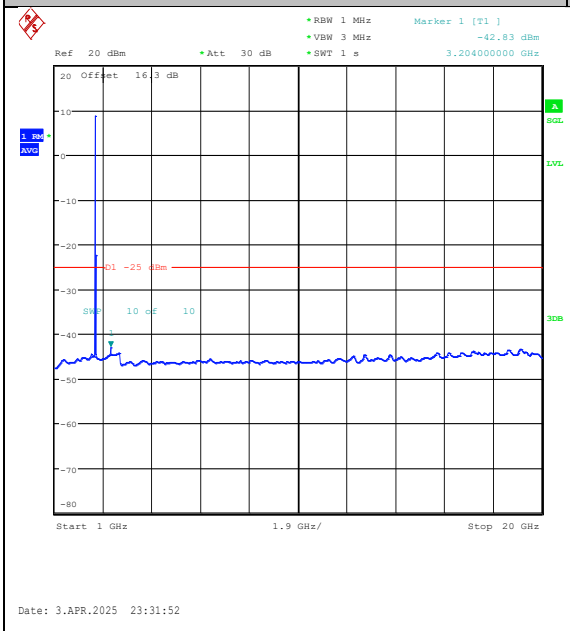
Band38-20MHz-QPSK-38150-1RB#0-20000~27000-PASS	Band38-20MHz-16QAM-38150-1RB#0-0.009~0.15-PASS



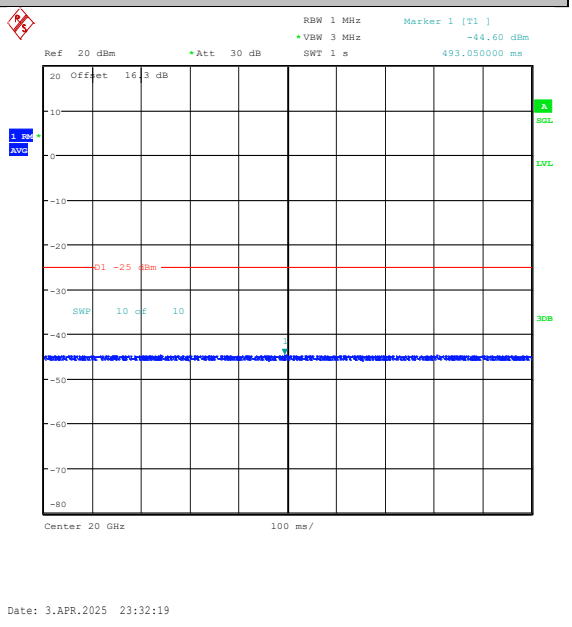
Band38-20MHz-16QAM-38150-1RB#0-0.15~30-PASS



Band38-20MHz-16QAM-38150-1RB#0-30~1000-PASS



Band38-20MHz-16QAM-38150-1RB#0-1000~20000-PASS



Band38-20MHz-16QAM-38150-1RB#0-20000~27000-PASS

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	VN	NT	-34.00	-0.013217	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VL	NT	-29.13	-0.011324	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	VH	NT	-19.90	-0.007736	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VN	NT	-7.84	-0.003048	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VL	NT	-15.68	-0.006095	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	VH	NT	-13.19	-0.005127	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VN	NT	5.15	0.001985	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VL	NT	8.61	0.003318	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	VH	NT	11.33	0.004366	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VN	NT	23.70	0.009133	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VL	NT	31.10	0.011985	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	VH	NT	25.58	0.009857	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VN	NT	-11.20	-0.004279	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VL	NT	-11.33	-0.004329	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	VH	NT	-29.50	-0.011270	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VN	NT	-44.80	-0.017116	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VL	NT	-42.17	-0.016111	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	VH	NT	-44.93	-0.017165	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VN	NT	-6.79	-0.002637	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VL	NT	-5.89	-0.002287	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	VH	NT	-5.22	-0.002027	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	VN	NT	-7.50	-0.002913	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	VL	NT	4.45	0.001728	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	VH	NT	4.71	0.001829	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VN	NT	-5.21	-0.002008	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VL	NT	4.62	0.001780	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	VH	NT	5.81	0.002239	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VN	NT	-8.45	-0.003256	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VL	NT	6.17	0.002378	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	VH	NT	-2.45	-0.000944	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VN	NT	-13.52	-0.005170	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VL	NT	-9.46	-0.003618	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	VH	NT	-9.91	-0.003790	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	VN	NT	-13.19	-0.005044	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	VL	NT	6.28	0.002402	±2.5	PASS

Band38	10MHz	16QAM	38200	50RB#0	VH	NT	5.71	0.002184	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VN	NT	-6.07	-0.002355	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VL	NT	-10.11	-0.003922	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	VH	NT	9.68	0.003756	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	VN	NT	-7.35	-0.002852	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	VL	NT	-7.60	-0.002949	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	VH	NT	-4.33	-0.001680	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VN	NT	-6.07	-0.002339	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VL	NT	-6.24	-0.002405	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	VH	NT	6.38	0.002459	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VN	NT	-9.34	-0.003599	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VL	NT	-11.74	-0.004524	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	VH	NT	-7.08	-0.002728	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VN	NT	-7.93	-0.003035	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VL	NT	-7.30	-0.002794	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	VH	NT	-5.21	-0.001994	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	VN	NT	-9.96	-0.003812	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	VL	NT	-7.71	-0.002951	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	VH	NT	-5.71	-0.002186	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	-10.89	-0.004221	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	-6.38	-0.002473	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	-5.48	-0.002124	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	-3.56	-0.001380	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	-3.20	-0.001240	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	-8.04	-0.003116	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	6.61	0.002547	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-3.10	-0.001195	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-5.87	-0.002262	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	-6.64	-0.002559	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	-10.09	-0.003888	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	-4.65	-0.001792	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	8.43	0.003230	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	-9.44	-0.003617	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	-10.03	-0.003843	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	-3.50	-0.001341	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	-7.85	-0.003008	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	-8.70	-0.003333	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

Band38	5MHz	QPSK	37775	25RB#0	NV	-30	-15.25	-0.005928	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-20	-13.39	-0.005205	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-10	-15.89	-0.006177	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	0	-13.23	-0.005143	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	10	-14.52	-0.005644	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	20	-12.95	-0.005034	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	30	-13.60	-0.005287	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	40	-13.99	-0.005438	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	50	-17.98	-0.006989	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-30	-12.06	-0.004688	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-20	-17.50	-0.006803	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-10	-15.61	-0.006068	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	0	-15.44	-0.006002	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	10	-15.56	-0.006049	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	20	-14.99	-0.005827	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	30	-17.95	-0.006978	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	40	-17.05	-0.006628	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	50	-17.12	-0.006655	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	10.74	0.004139	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	9.81	0.003780	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	14.55	0.005607	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	11.47	0.004420	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	15.28	0.005888	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	15.69	0.006046	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	23.35	0.008998	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	26.26	0.010119	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	50	27.94	0.010767	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-30	27.31	0.010524	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	18.12	0.006983	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	24.81	0.009561	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	25.53	0.009838	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	25.78	0.009934	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	31.77	0.012243	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	24.00	0.009249	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	28.34	0.010921	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	22.60	0.008709	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-30	-30.90	-0.011805	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-20	-28.70	-0.010965	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-10	-26.24	-0.010025	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	0	-30.86	-0.011790	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	10	-30.48	-0.011645	±2.5	PASS

Band38	5MHz	QPSK	38225	25RB#0	NV	20	-31.19	-0.011916	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	30	-29.94	-0.011438	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	40	-25.15	-0.009608	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	50	-44.96	-0.017177	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-30	-39.02	-0.014907	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-20	-38.74	-0.014800	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-10	-44.25	-0.016905	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	0	-41.01	-0.015668	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	10	-38.19	-0.014590	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	20	-57.31	-0.021895	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	30	-49.68	-0.018980	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	40	-47.06	-0.017979	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	50	-48.65	-0.018586	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-30	-3.35	-0.001301	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-20	-7.85	-0.003049	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-10	5.19	0.002016	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	0	6.44	0.002501	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	10	2.66	0.001033	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	20	-6.64	-0.002579	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	30	-5.38	-0.002089	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	40	6.31	0.002450	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	50	-7.70	-0.002990	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	-30	3.83	0.001487	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	-20	-3.15	-0.001223	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	-10	-6.59	-0.002559	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	0	-5.42	-0.002105	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	10	-4.13	-0.001604	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	20	-7.20	-0.002796	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	30	-10.63	-0.004128	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	40	-5.58	-0.002167	±2.5	PASS
Band38	10MHz	16QAM	37800	50RB#0	NV	50	-5.68	-0.002206	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	7.05	0.002717	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	3.62	0.001395	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-10	-4.55	-0.001753	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	-3.48	-0.001341	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	10	-3.71	-0.001430	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	20	-4.29	-0.001653	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	-4.62	-0.001780	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	4.89	0.001884	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	-10.74	-0.004139	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	-30	-5.78	-0.002227	±2.5	PASS

Band38	10MHz	16QAM	38000	50RB#0	NV	-20	-5.62	-0.002166	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	-10	-4.18	-0.001611	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	0	-5.62	-0.002166	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	10	8.65	0.003333	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	20	-5.21	-0.002008	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	30	-6.49	-0.002501	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	40	-4.73	-0.001823	±2.5	PASS
Band38	10MHz	16QAM	38000	50RB#0	NV	50	-6.14	-0.002366	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-30	5.42	0.002073	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-20	-8.14	-0.003113	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-10	-8.35	-0.003193	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	0	-7.57	-0.002895	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	10	-5.84	-0.002233	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	20	-9.70	-0.003709	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	30	-6.54	-0.002501	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	40	-7.64	-0.002922	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	50	-4.68	-0.001790	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	-30	-9.50	-0.003633	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	-20	-5.51	-0.002107	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	-10	-6.64	-0.002539	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	0	-9.37	-0.003583	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	10	-8.23	-0.003147	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	20	-9.00	-0.003442	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	30	-9.36	-0.003579	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	40	-9.57	-0.003660	±2.5	PASS
Band38	10MHz	16QAM	38200	50RB#0	NV	50	-7.14	-0.002730	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-30	6.27	0.002433	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-20	-7.84	-0.003042	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-10	-12.86	-0.004989	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	0	-6.55	-0.002541	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	10	-11.19	-0.004341	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	20	-9.31	-0.003612	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	30	-9.04	-0.003507	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	40	10.39	0.004031	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	50	-6.27	-0.002433	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	-30	-7.28	-0.002824	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	-20	-4.78	-0.001855	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	-10	-10.47	-0.004062	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	0	9.03	0.003503	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	10	-3.71	-0.001439	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	20	-5.44	-0.002111	±2.5	PASS

Band38	15MHz	16QAM	37825	75RB#0	NV	30	-5.59	-0.002169	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	40	-6.38	-0.002475	±2.5	PASS
Band38	15MHz	16QAM	37825	75RB#0	NV	50	-8.48	-0.003290	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	-8.08	-0.003114	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	-6.51	-0.002509	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	-10.57	-0.004073	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	-6.75	-0.002601	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	-6.14	-0.002366	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	-5.52	-0.002127	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	-8.87	-0.003418	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	-6.32	-0.002435	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	-8.77	-0.003380	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-30	-5.01	-0.001931	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-20	-9.24	-0.003561	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	-10	-6.05	-0.002331	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	0	-6.11	-0.002355	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	10	-7.40	-0.002852	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	20	-7.15	-0.002755	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	30	-11.22	-0.004324	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	40	-4.63	-0.001784	±2.5	PASS
Band38	15MHz	16QAM	38000	75RB#0	NV	50	-5.65	-0.002177	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-30	-7.93	-0.003035	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-20	-11.43	-0.004375	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-10	-7.93	-0.003035	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	0	-9.70	-0.003713	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	10	-4.84	-0.001853	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	20	-2.96	-0.001133	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	30	-6.82	-0.002611	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	40	-6.77	-0.002591	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	50	-8.91	-0.003411	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	-30	3.71	0.001420	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	-20	4.88	0.001868	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	-10	4.98	0.001906	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	0	3.88	0.001485	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	10	-6.71	-0.002568	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	20	-8.75	-0.003349	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	30	-10.31	-0.003946	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	40	-6.90	-0.002641	±2.5	PASS
Band38	15MHz	16QAM	38175	75RB#0	NV	50	-4.13	-0.001581	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	2.40	0.000930	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-7.45	-0.002888	±2.5	PASS

Band38	20MHz	QPSK	37850	100RB#0	NV	-10	7.54	0.002922	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-8.81	-0.003415	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-3.39	-0.001314	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-5.32	-0.002062	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	-9.46	-0.003667	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	-2.98	-0.001155	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	4.81	0.001864	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	-4.94	-0.001915	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	-6.02	-0.002333	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-10	-6.27	-0.002430	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	-8.14	-0.003155	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-7.47	-0.002895	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	-11.90	-0.004612	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-7.65	-0.002965	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	-4.71	-0.001826	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	-11.70	-0.004535	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-5.84	-0.002250	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-10.50	-0.004046	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-8.80	-0.003391	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-9.23	-0.003557	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-6.45	-0.002486	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-6.28	-0.002420	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	3.22	0.001241	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-10.97	-0.004227	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-2.23	-0.000859	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	-3.50	-0.001349	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	-7.38	-0.002844	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-10	-4.42	-0.001703	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	-6.19	-0.002385	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	-12.42	-0.004786	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	-7.81	-0.003010	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	-4.35	-0.001676	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	-3.88	-0.001495	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	-3.62	-0.001395	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-11.44	-0.004383	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-5.71	-0.002188	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-7.57	-0.002900	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-7.67	-0.002939	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	6.81	0.002609	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-5.64	-0.002161	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	5.41	0.002073	±2.5	PASS

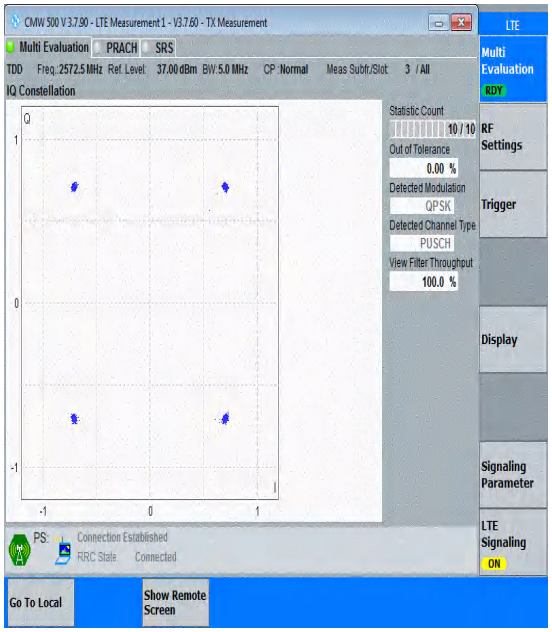
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-3.83	-0.001467	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-8.83	-0.003383	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	-3.76	-0.001441	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	-9.90	-0.003793	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-10	-6.58	-0.002521	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	-9.64	-0.003693	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	-5.08	-0.001946	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	-7.17	-0.002747	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	-10.54	-0.004038	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	-4.19	-0.001605	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	-3.95	-0.001513	±2.5	PASS

Appendix G: Modulation Characteristics

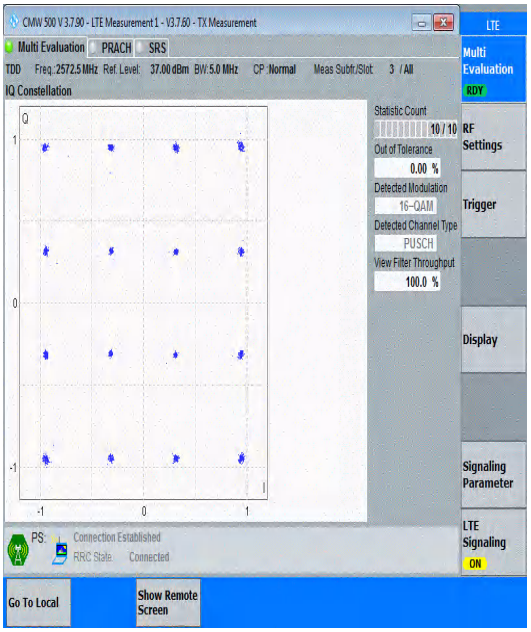
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band38	5MHz	QPSK	37775	25RB#0	PASS
Band38	5MHz	16QAM	37775	25RB#0	PASS
Band38	5MHz	QPSK	38000	25RB#0	PASS
Band38	5MHz	16QAM	38000	25RB#0	PASS
Band38	5MHz	QPSK	38225	25RB#0	PASS
Band38	5MHz	16QAM	38225	25RB#0	PASS
Band38	10MHz	QPSK	37800	50RB#0	PASS
Band38	10MHz	16QAM	37800	50RB#0	PASS
Band38	10MHz	QPSK	38000	50RB#0	PASS
Band38	10MHz	16QAM	38000	50RB#0	PASS
Band38	10MHz	QPSK	38200	50RB#0	PASS
Band38	10MHz	16QAM	38200	50RB#0	PASS
Band38	15MHz	QPSK	37825	75RB#0	PASS
Band38	15MHz	16QAM	37825	75RB#0	PASS
Band38	15MHz	QPSK	38000	75RB#0	PASS
Band38	15MHz	16QAM	38000	75RB#0	PASS
Band38	15MHz	QPSK	38175	75RB#0	PASS
Band38	15MHz	16QAM	38175	75RB#0	PASS
Band38	20MHz	QPSK	37850	100RB#0	PASS
Band38	20MHz	16QAM	37850	100RB#0	PASS
Band38	20MHz	QPSK	38000	100RB#0	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS
Band38	20MHz	QPSK	38150	100RB#0	PASS
Band38	20MHz	16QAM	38150	100RB#0	PASS

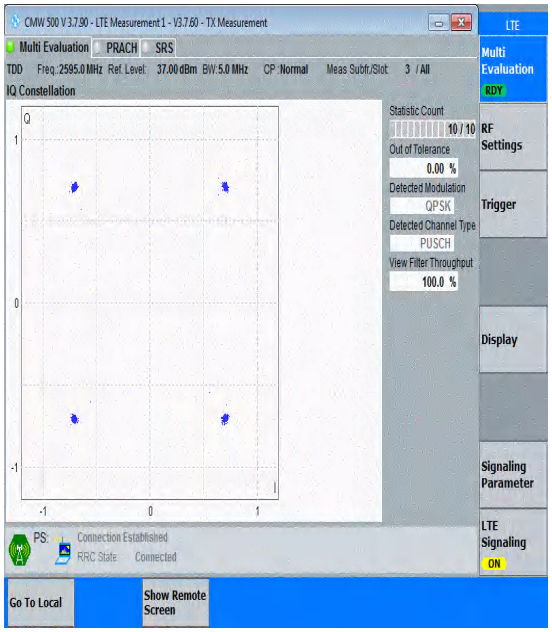
Test Graphs



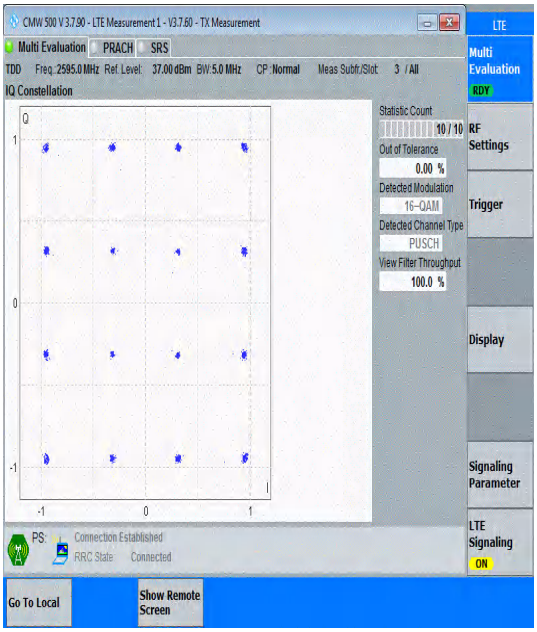
Band38-5MHz-QPSK-37775-25RB#0-PASS



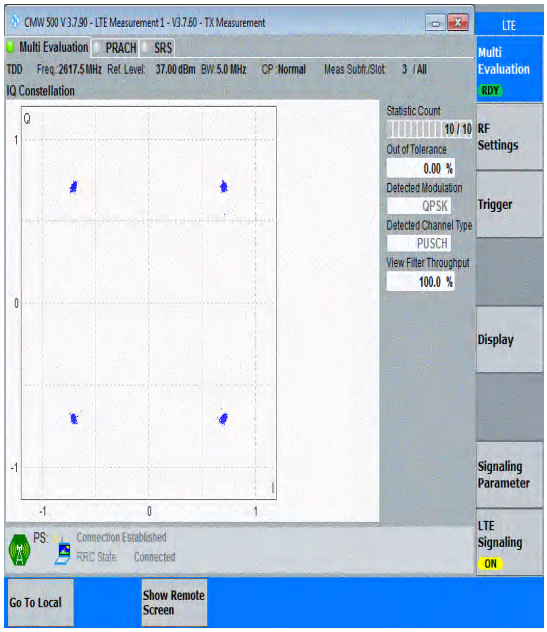
Band38-5MHz-16QAM-37775-25RB#0-PASS



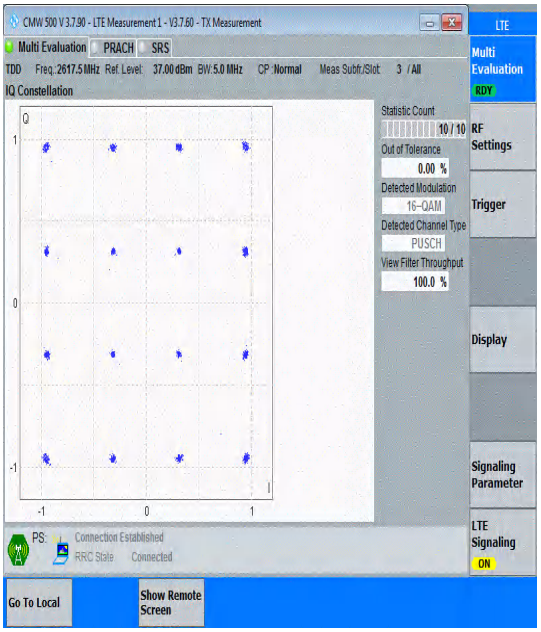
Band38-5MHz-QPSK-38000-25RB#0-PASS



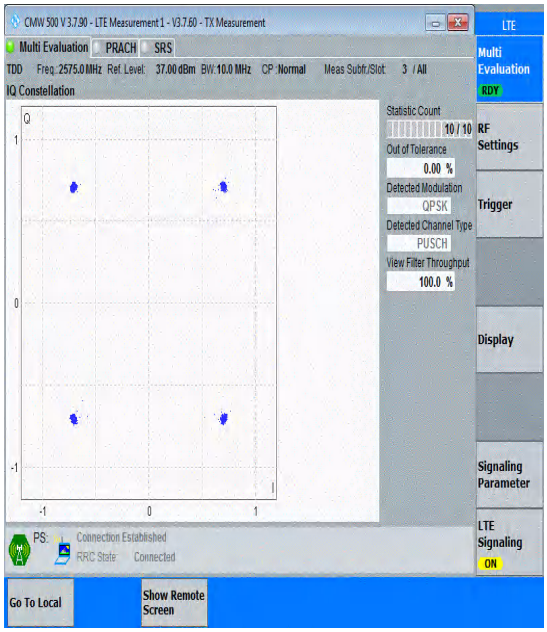
Band38-5MHz-16QAM-38000-25RB#0-PASS



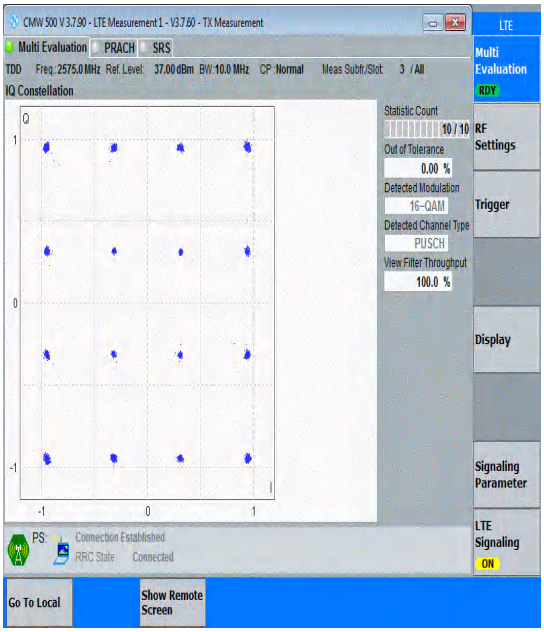
Band38-5MHz-QPSK-38225-25RB#0-PASS



Band38-5MHz-16QAM-38225-25RB#0-PASS



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



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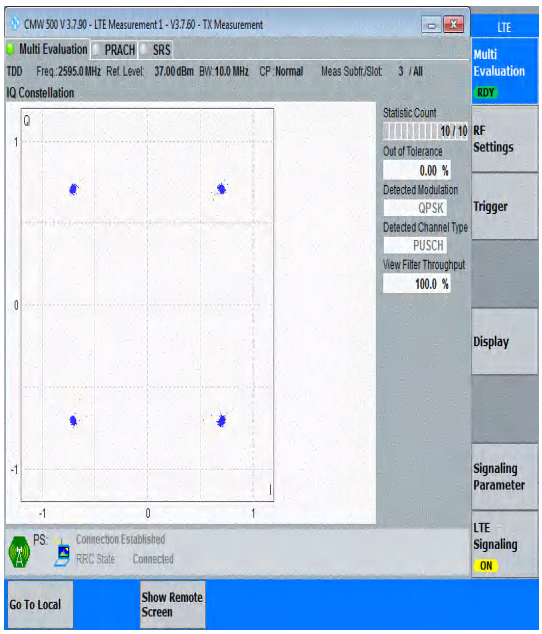

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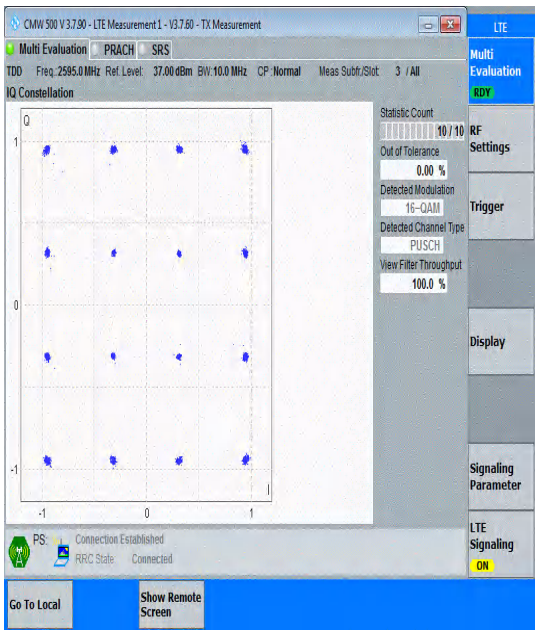

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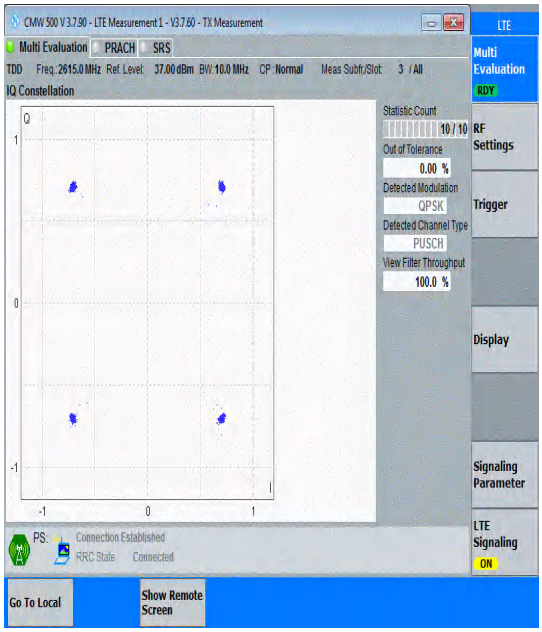

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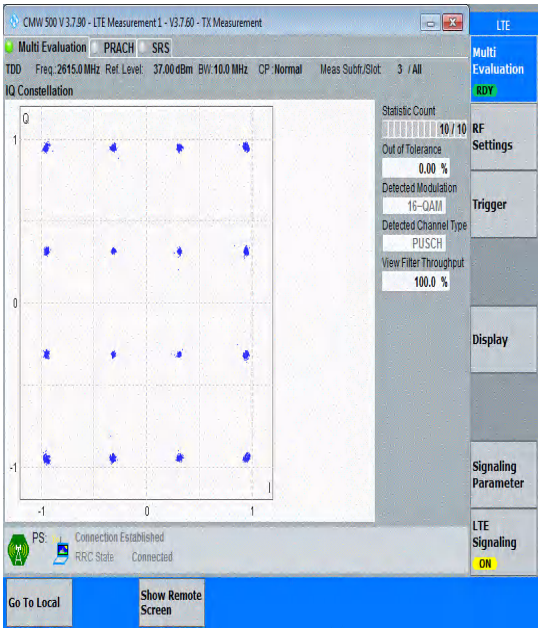
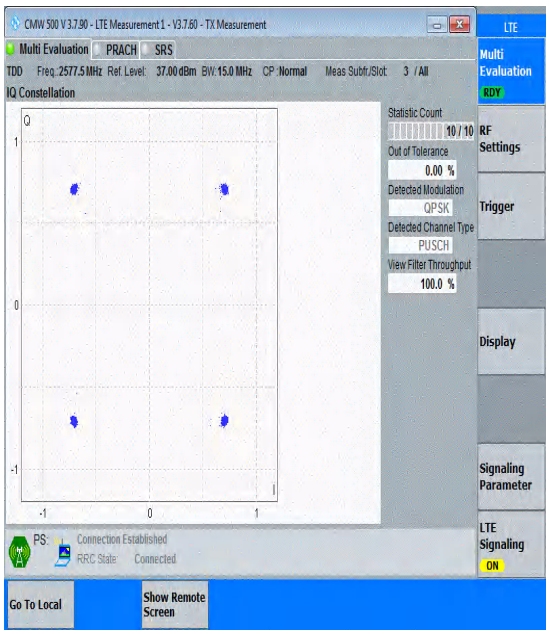
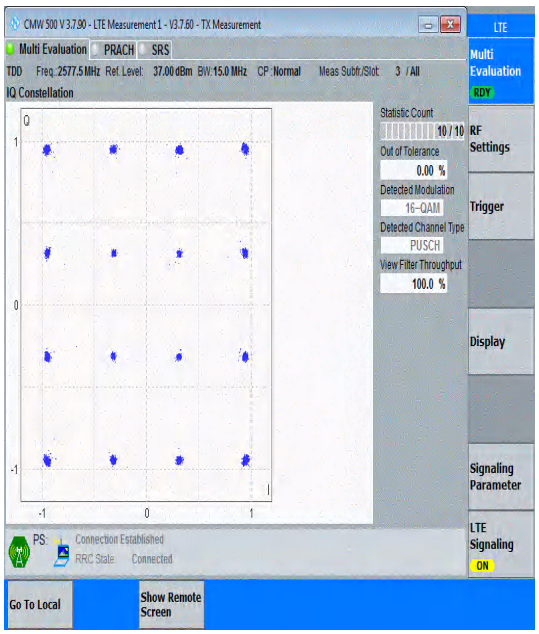


Band38-10MHz-16QAM-38200-50RB#0-PASS



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



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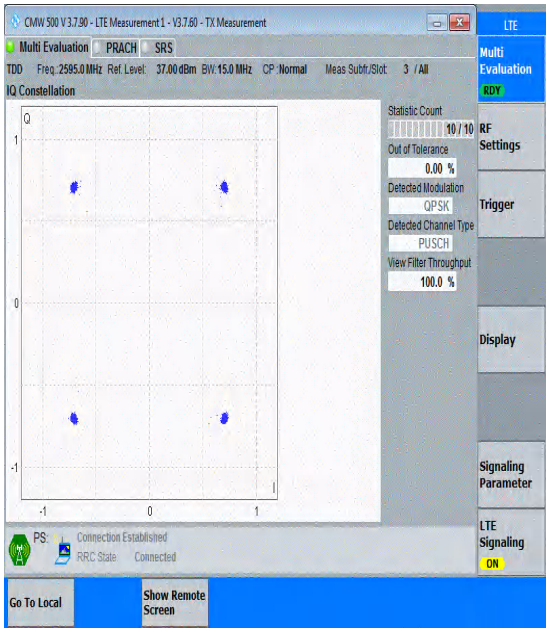

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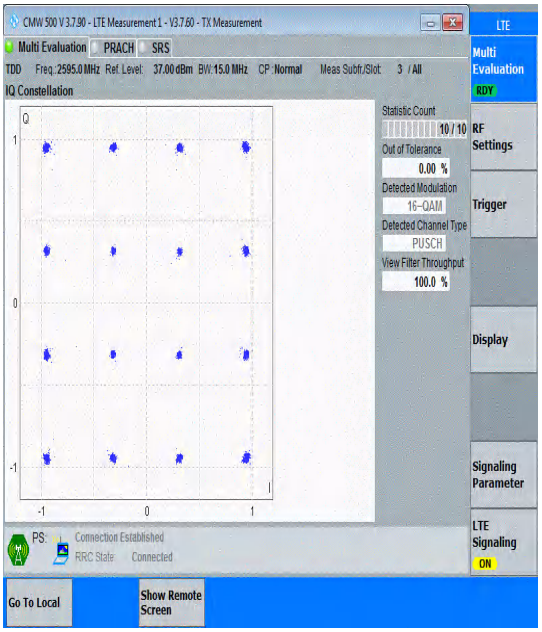

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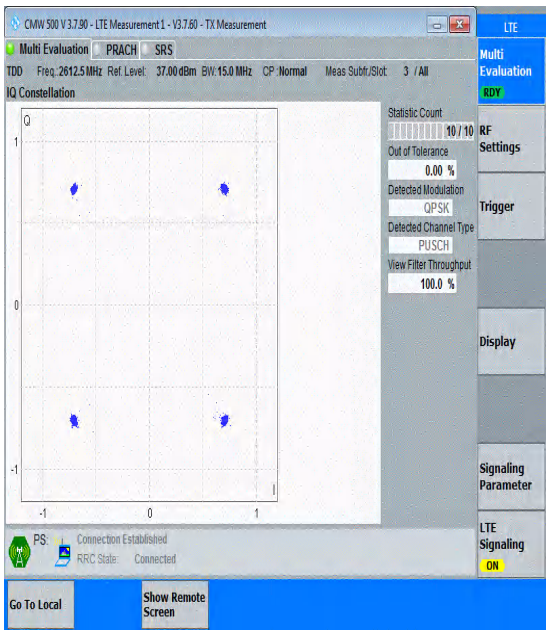

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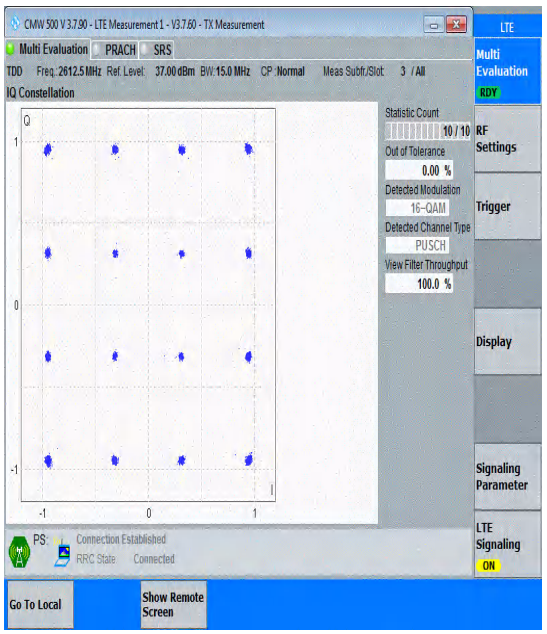
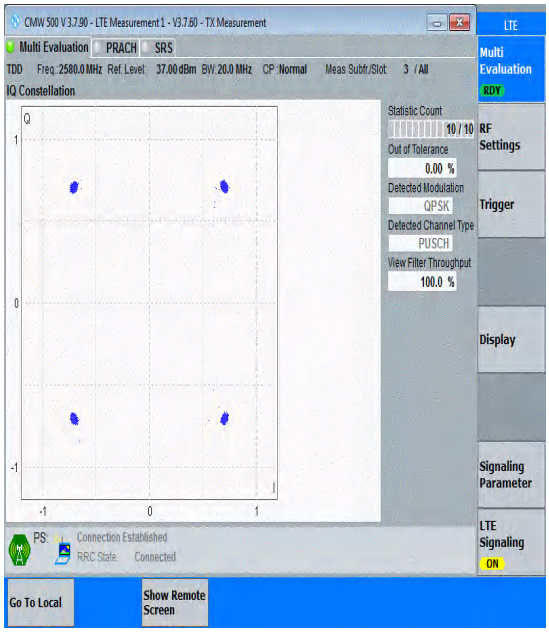
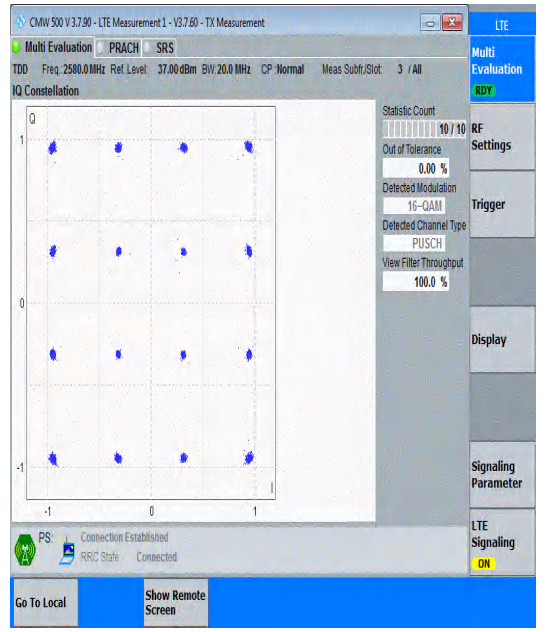


Band38-15MHz-16QAM-38175-75RB#0-PASS



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



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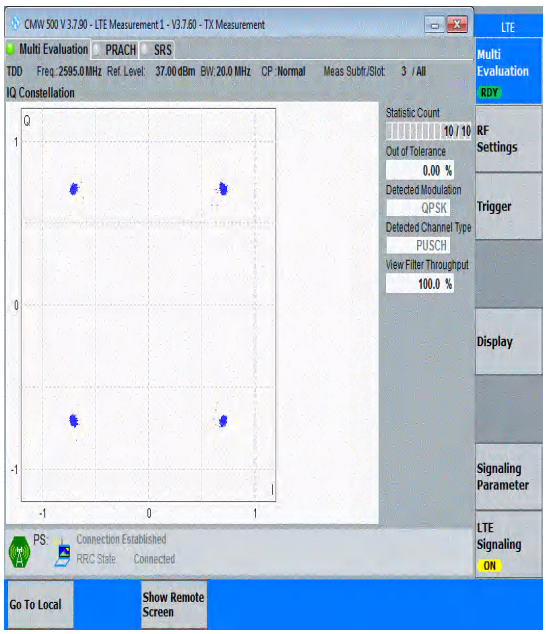

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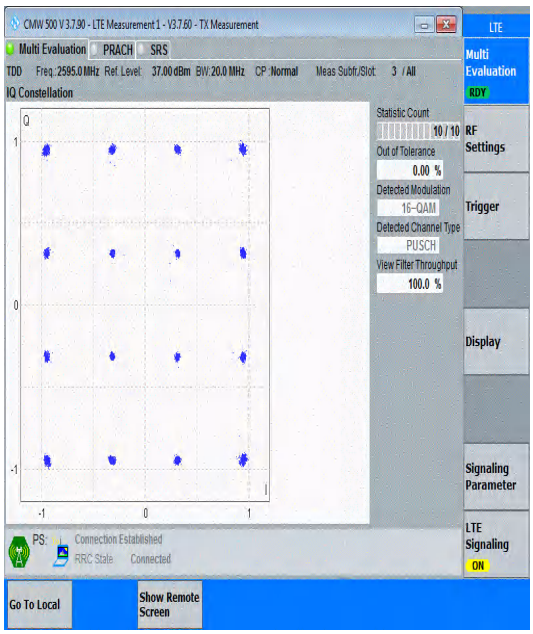

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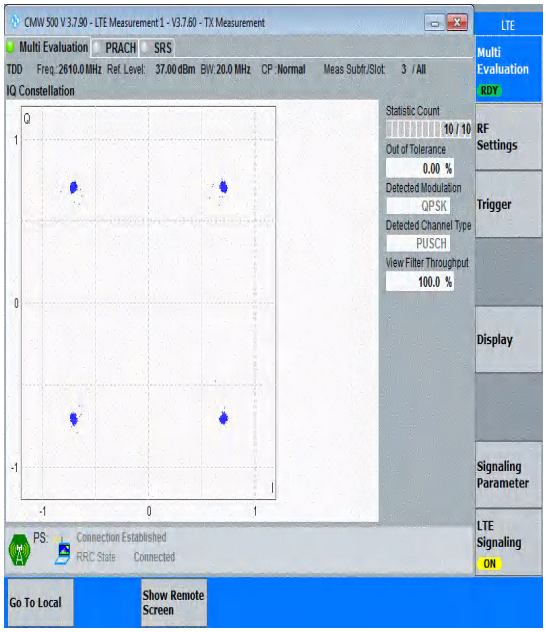
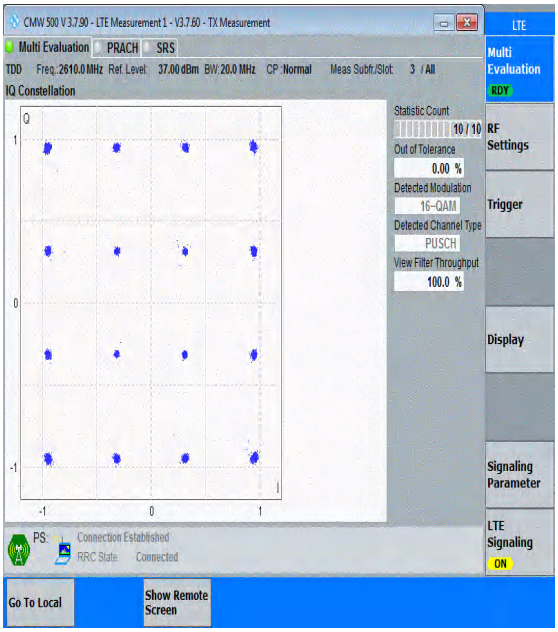


Band38-20MHz-QPSK-38150-100RB#0-PASS



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