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Appendix B.15

LTE Band 38



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.35	25.65	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.54	25.84	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.41	25.71	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.25	24.55	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.51	25.81	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.58	25.88	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.52	25.82	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.32	24.62	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.59	25.89	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.64	25.94	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.55	25.85	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.38	24.68	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.36	24.66	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.35	24.65	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.29	24.59	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.28	23.58	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.39	24.69	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.35	24.65	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.37	24.67	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.33	23.63	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.44	24.74	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.38	24.68	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.38	24.68	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.41	23.71	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#0	20.97	23.27	33.00	PASS
Band38	5MHz	64QAM	37775	1RB#12	20.95	23.25	33.00	PASS

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Band38	5MHz	64QAM	37775	1RB#24	20.88	23.18	33.00	PASS
Band38	5MHz	64QAM	37775	25RB#0	20.28	22.58	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#0	21.01	23.31	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#12	20.98	23.28	33.00	PASS
Band38	5MHz	64QAM	38000	1RB#24	20.97	23.27	33.00	PASS
Band38	5MHz	64QAM	38000	25RB#0	20.34	22.64	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#0	21.09	23.39	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#12	21.05	23.35	33.00	PASS
Band38	5MHz	64QAM	38225	1RB#24	21.02	23.32	33.00	PASS
Band38	5MHz	64QAM	38225	25RB#0	20.41	22.71	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.46	25.76	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.45	25.75	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.41	25.71	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.28	24.58	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.50	25.80	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.54	25.84	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.52	25.82	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.35	24.65	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.61	25.91	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.58	25.88	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.53	25.83	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.40	24.70	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.33	24.63	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.33	24.63	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.29	24.59	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.28	23.58	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.38	24.68	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.41	24.71	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.36	24.66	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.36	23.66	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.45	24.75	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.44	24.74	33.00	PASS

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Band38	10MHz	16QAM	38200	1RB#49	22.35	24.65	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.40	23.70	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#0	20.93	23.23	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#24	20.93	23.23	33.00	PASS
Band38	10MHz	64QAM	37800	1RB#49	20.87	23.17	33.00	PASS
Band38	10MHz	64QAM	37800	50RB#0	20.23	22.53	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#0	20.98	23.28	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#24	21.01	23.31	33.00	PASS
Band38	10MHz	64QAM	38000	1RB#49	20.97	23.27	33.00	PASS
Band38	10MHz	64QAM	38000	50RB#0	20.31	22.61	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#0	21.04	23.34	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#24	21.07	23.37	33.00	PASS
Band38	10MHz	64QAM	38200	1RB#49	20.98	23.28	33.00	PASS
Band38	10MHz	64QAM	38200	50RB#0	20.35	22.65	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.37	25.67	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.41	25.71	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.33	25.63	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.27	24.57	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.36	25.66	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.50	25.80	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.48	25.78	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.34	24.64	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.50	25.80	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.58	25.88	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.46	25.76	33.00	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.41	24.71	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.28	24.58	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.31	24.61	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.24	24.54	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.28	23.58	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.24	24.54	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.37	24.67	33.00	PASS

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Band38	15MHz	16QAM	38000	1RB#74	22.35	24.65	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.34	23.64	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.38	24.68	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.45	24.75	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.33	24.63	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.41	23.71	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#0	20.86	23.16	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#38	20.91	23.21	33.00	PASS
Band38	15MHz	64QAM	37825	1RB#74	20.82	23.12	33.00	PASS
Band38	15MHz	64QAM	37825	75RB#0	20.24	22.54	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#0	20.85	23.15	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#38	20.99	23.29	33.00	PASS
Band38	15MHz	64QAM	38000	1RB#74	20.96	23.26	33.00	PASS
Band38	15MHz	64QAM	38000	75RB#0	20.30	22.60	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#0	20.98	23.28	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#38	21.06	23.36	33.00	PASS
Band38	15MHz	64QAM	38175	1RB#74	20.93	23.23	33.00	PASS
Band38	15MHz	64QAM	38175	75RB#0	20.37	22.67	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.35	25.65	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.46	25.76	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.34	25.64	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.27	24.57	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.29	25.59	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.52	25.82	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.46	25.76	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.32	24.62	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.44	25.74	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.60	25.90	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.43	25.73	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.41	24.71	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.25	24.55	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.33	24.63	33.00	PASS

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Band38	20MHz	16QAM	37850	1RB#99	22.21	24.51	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.26	23.56	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.18	24.48	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.38	24.68	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.32	24.62	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.33	23.63	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.30	24.60	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.47	24.77	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.30	24.60	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.42	23.72	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#0	20.83	23.13	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#49	20.94	23.24	33.00	PASS
Band38	20MHz	64QAM	37850	1RB#99	20.81	23.11	33.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	20.22	22.52	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#0	20.79	23.09	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#49	20.99	23.29	33.00	PASS
Band38	20MHz	64QAM	38000	1RB#99	20.93	23.23	33.00	PASS
Band38	20MHz	64QAM	38000	100RB#0	20.29	22.59	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#0	20.91	23.21	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#49	21.09	23.39	33.00	PASS
Band38	20MHz	64QAM	38150	1RB#99	20.90	23.20	33.00	PASS
Band38	20MHz	64QAM	38150	100RB#0	20.38	22.68	33.00	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	7.24	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	7.34	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	7.04	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	8.00	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	7.92	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	7.98	13	PASS
Band38	20MHz	64QAM	37850	100RB#0	8.46	13	PASS
Band38	20MHz	64QAM	38000	100RB#0	8.44	13	PASS
Band38	20MHz	64QAM	38150	100RB#0	8.34	13	PASS



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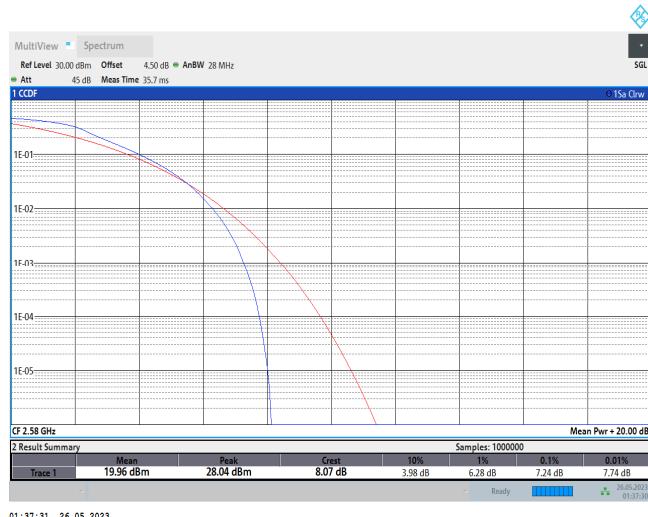
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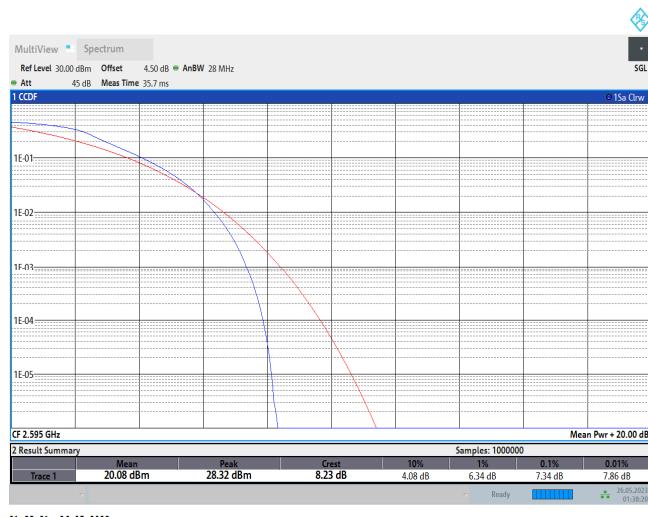
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Test Graphs

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



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



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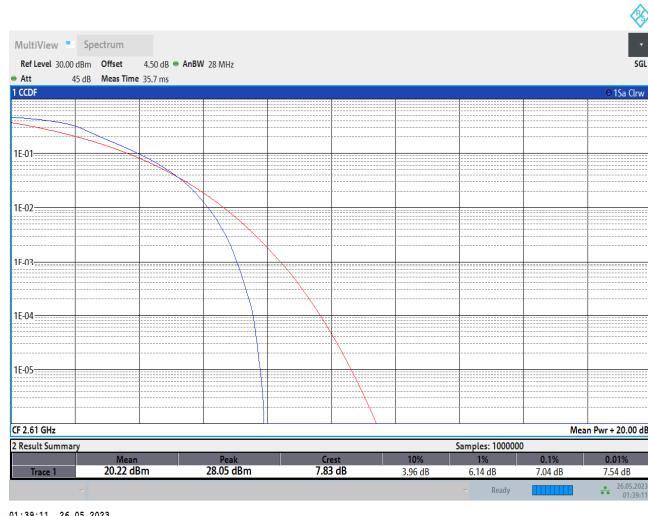
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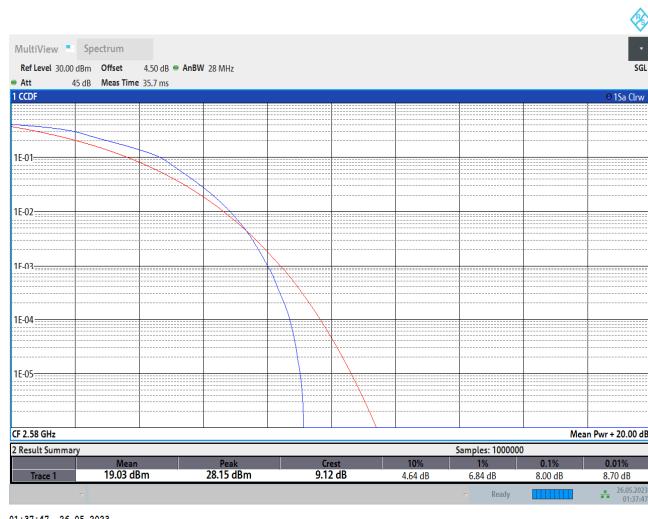
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Band38-20MHz-QPSK-38150-100RB#0



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



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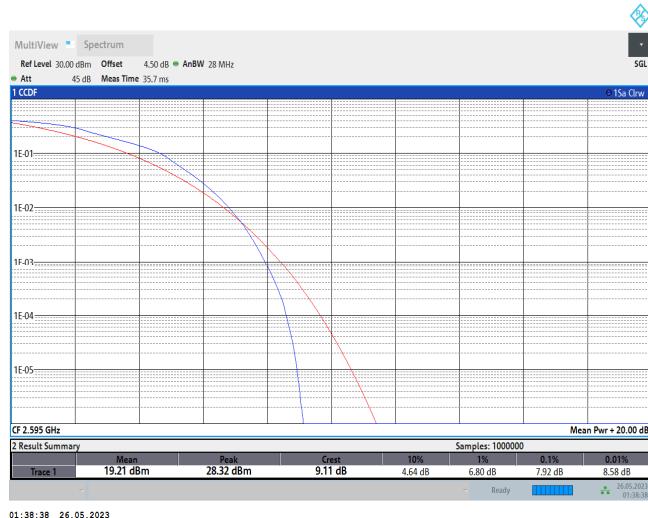
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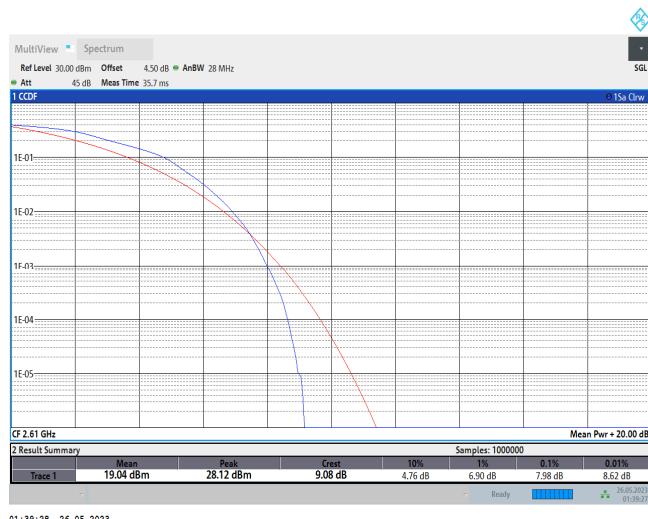
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Band38-20MHz-16QAM-38000-100RB#0



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



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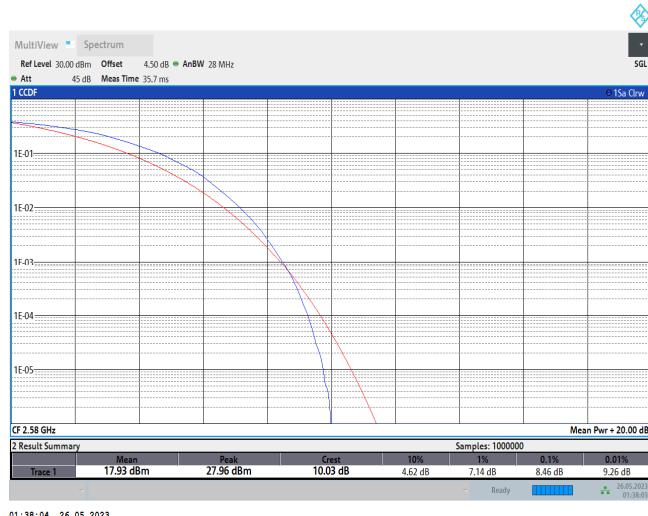
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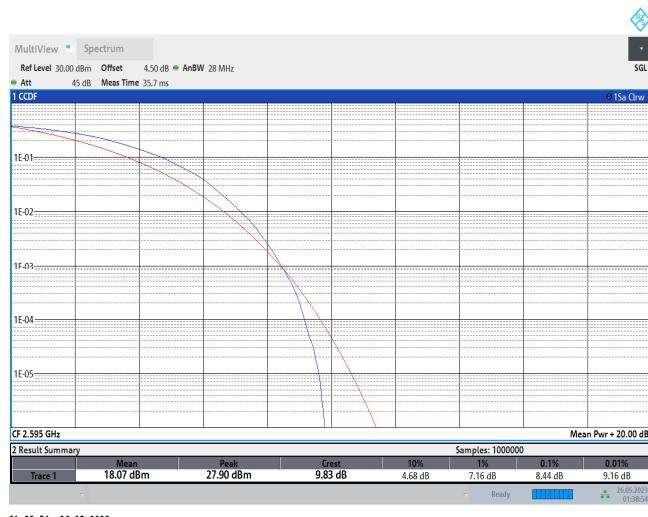
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Band38-20MHz-64QAM-37850-100RB#0



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



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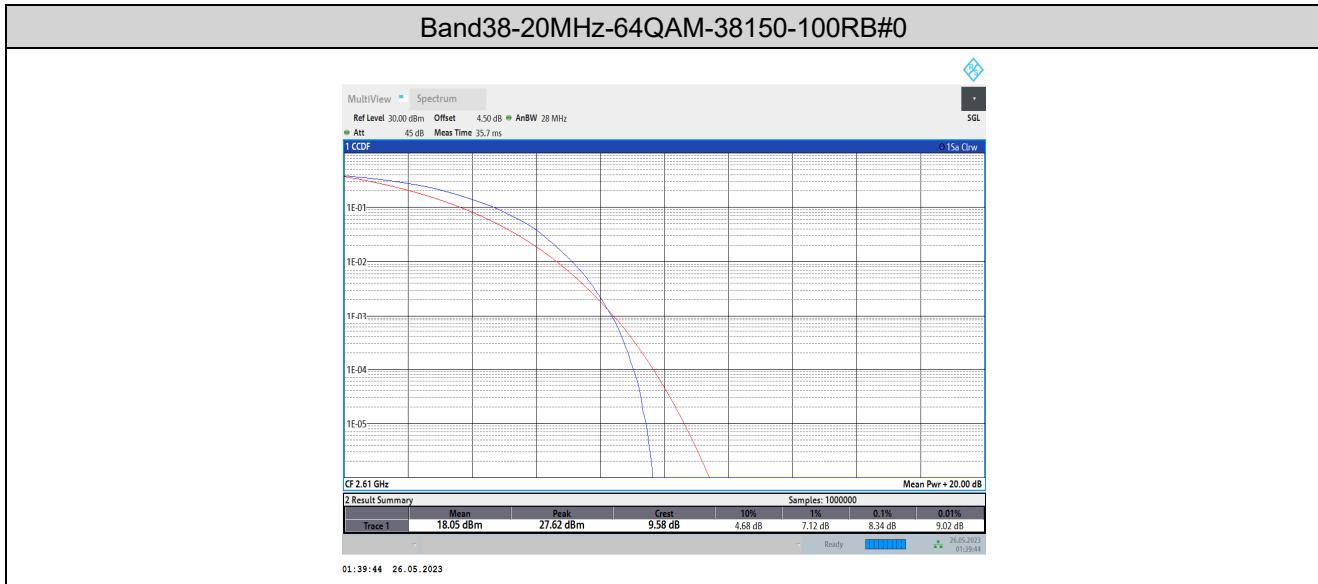
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Modulation Characteristics

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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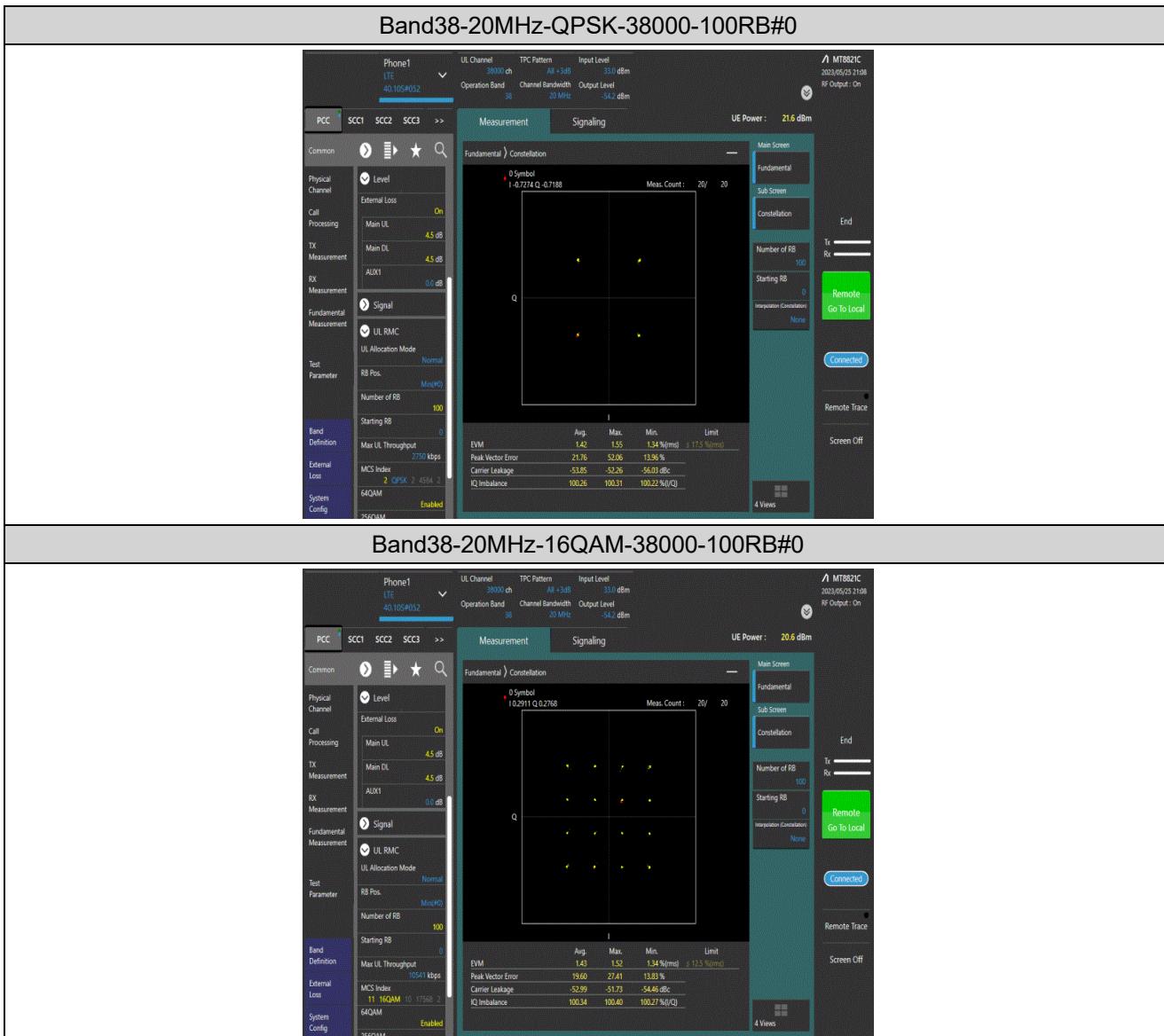
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Test Graphs



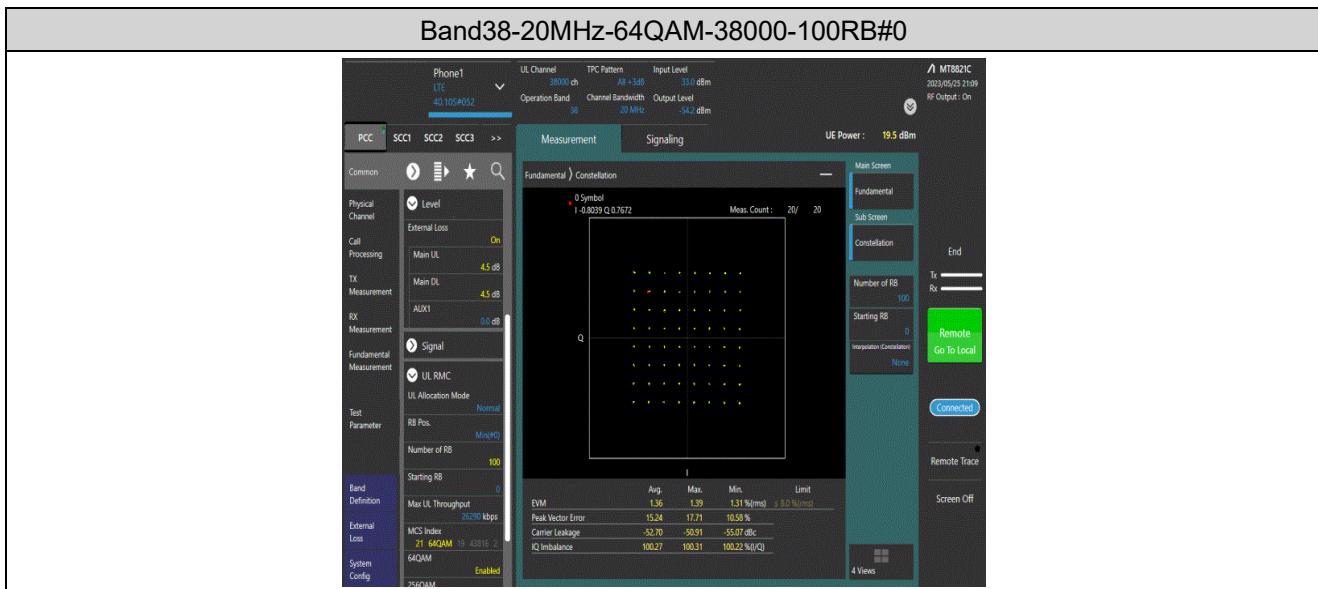
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.468	4.83	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.468	4.69	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.487	4.77	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.460	4.80	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.474	4.79	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.480	4.77	PASS
Band38	5MHz	64QAM	37775	25RB#0	4.453	4.86	PASS
Band38	5MHz	64QAM	38000	25RB#0	4.477	4.81	PASS
Band38	5MHz	64QAM	38225	25RB#0	4.474	4.83	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.924	9.52	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.958	9.58	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.916	9.56	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.955	9.36	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.906	9.98	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.911	9.50	PASS
Band38	10MHz	64QAM	37800	50RB#0	8.916	9.50	PASS
Band38	10MHz	64QAM	38000	50RB#0	8.931	9.50	PASS
Band38	10MHz	64QAM	38200	50RB#0	8.925	9.40	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.499	14.97	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.489	14.52	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.444	14.55	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.405	14.73	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.429	14.61	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.498	14.67	PASS
Band38	15MHz	64QAM	37825	75RB#0	13.467	14.31	PASS
Band38	15MHz	64QAM	38000	75RB#0	13.435	14.52	PASS
Band38	15MHz	64QAM	38175	75RB#0	13.466	15.09	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.936	19.12	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.820	19.00	PASS

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Band38	20MHz	QPSK	38150	100RB#0	17.867	19.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.921	19.32	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.852	19.28	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.844	19.00	PASS
Band38	20MHz	64QAM	37850	100RB#0	17.839	18.92	PASS
Band38	20MHz	64QAM	38000	100RB#0	17.856	19.20	PASS
Band38	20MHz	64QAM	38150	100RB#0	17.926	19.00	PASS



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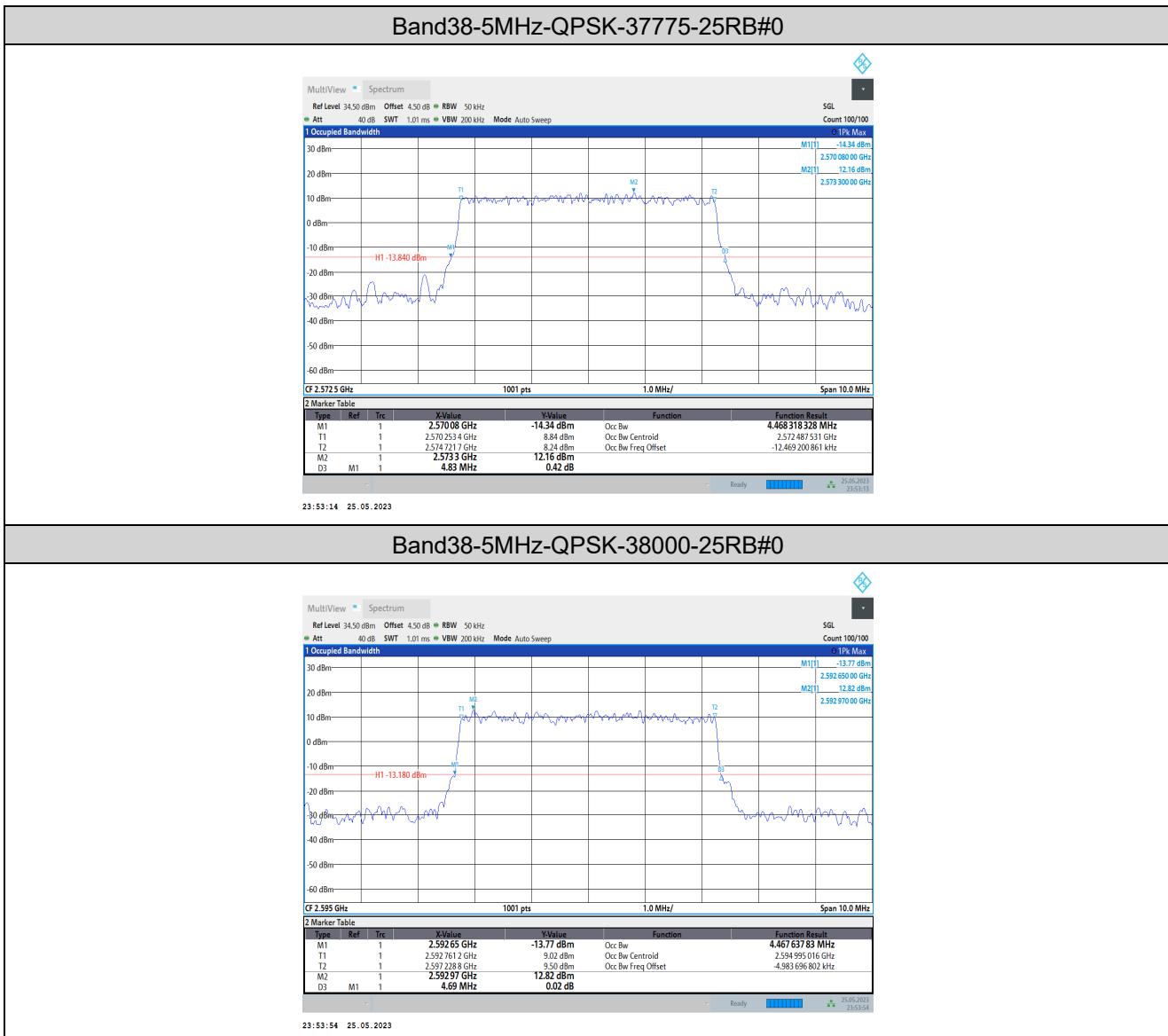
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Test Graphs



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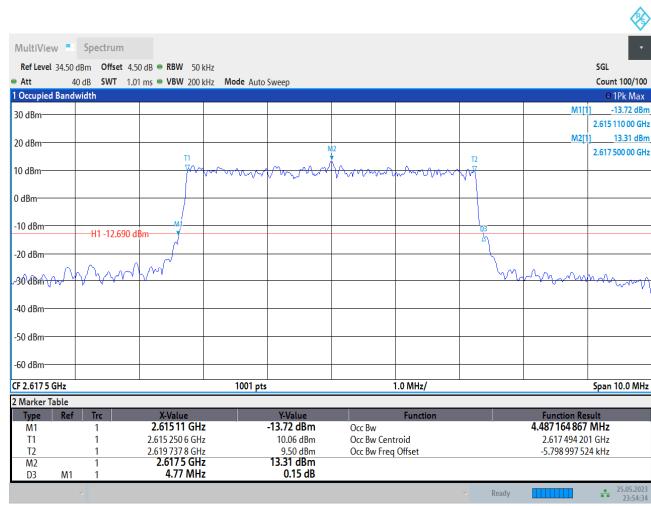


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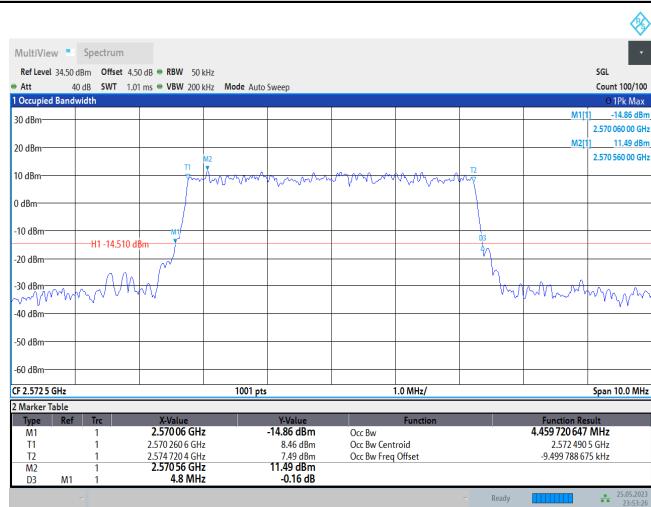
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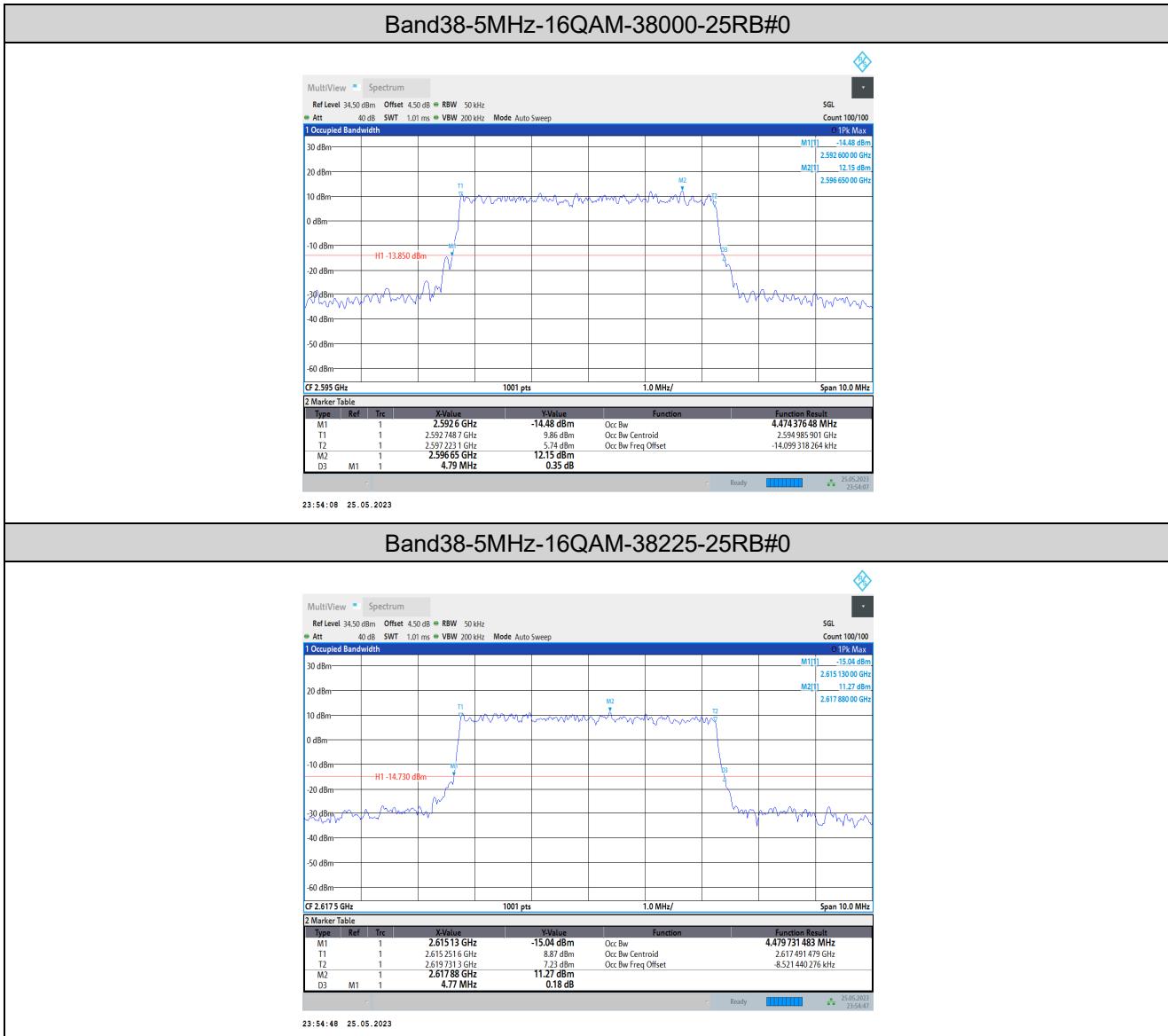


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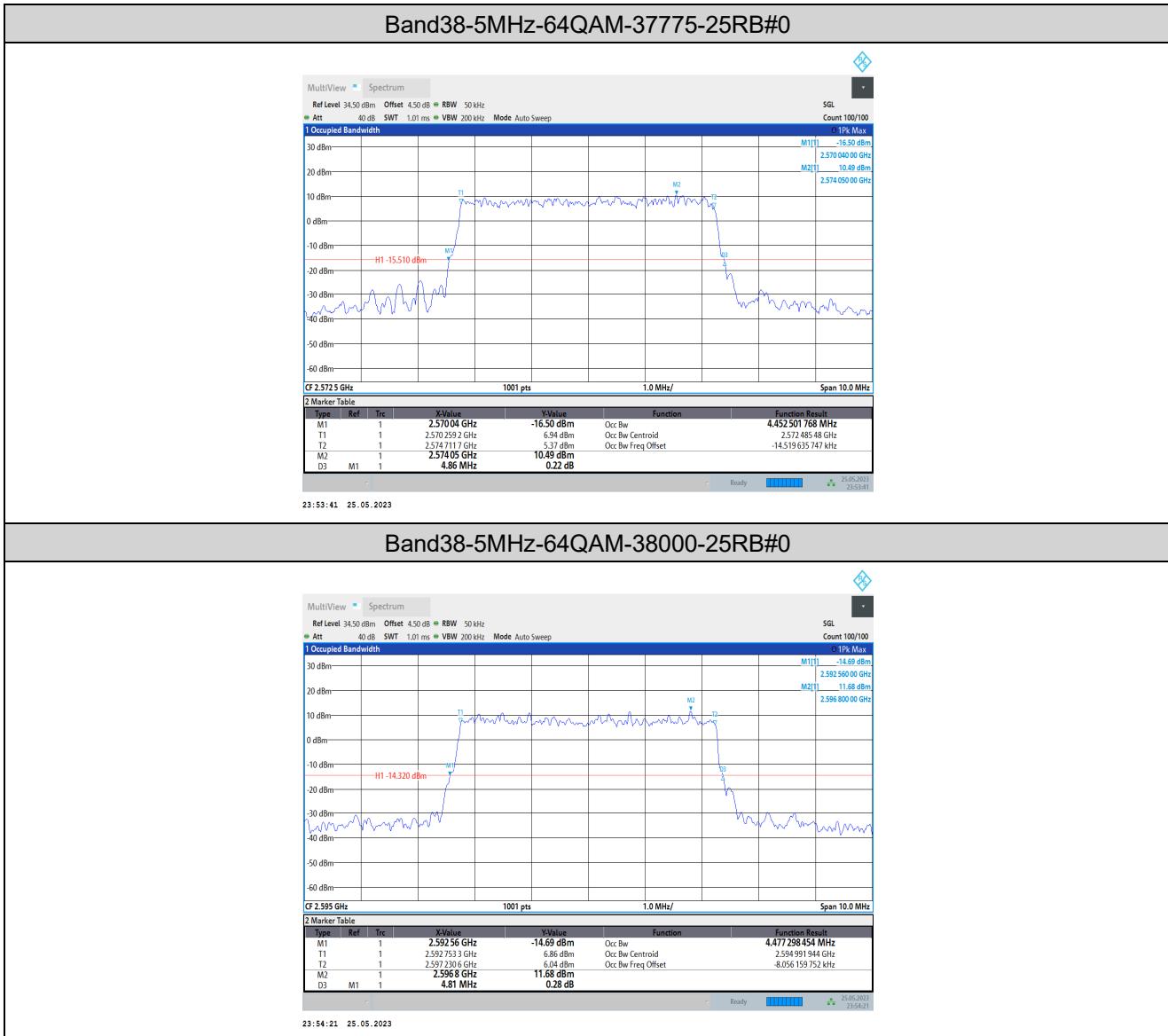


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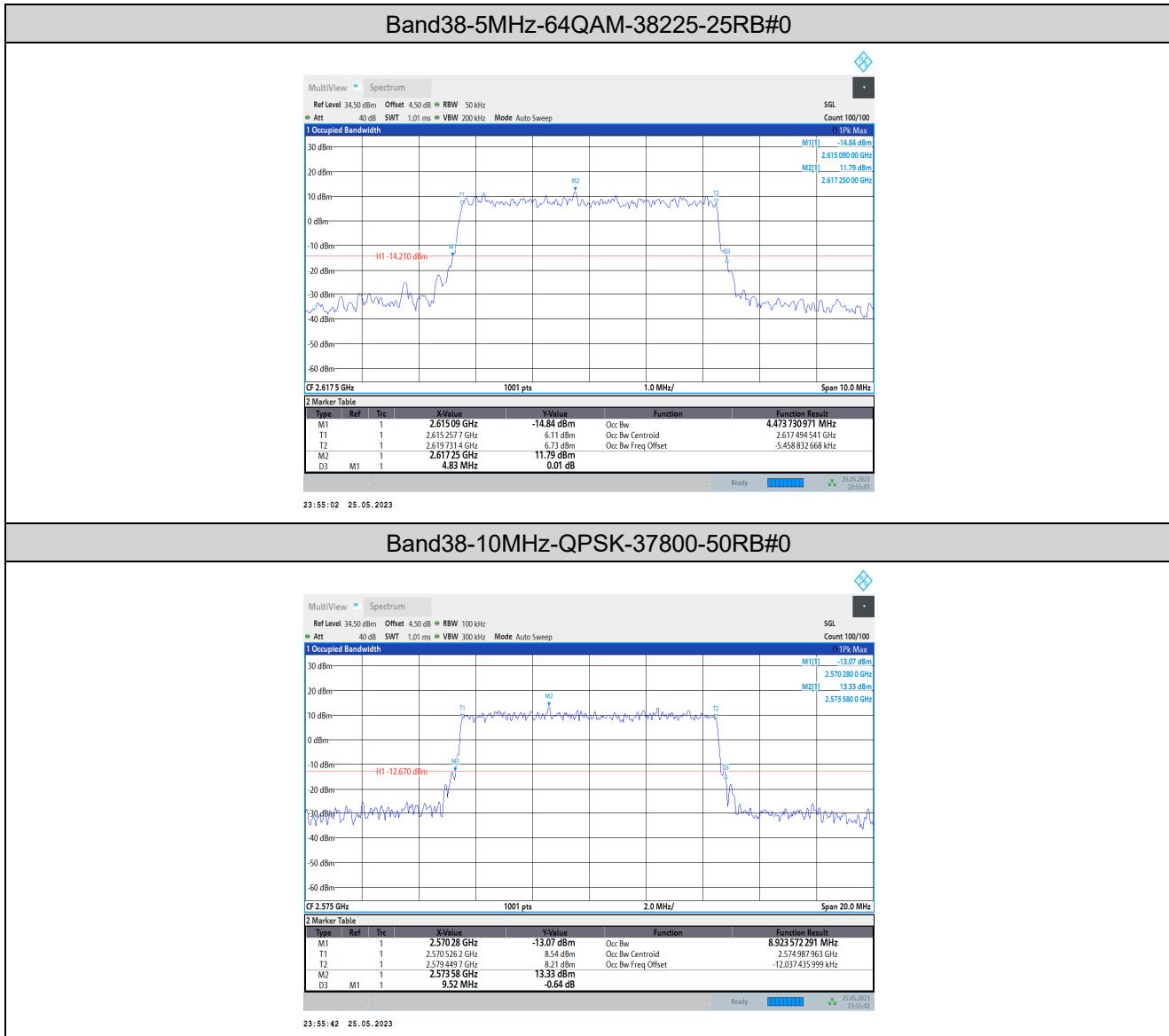
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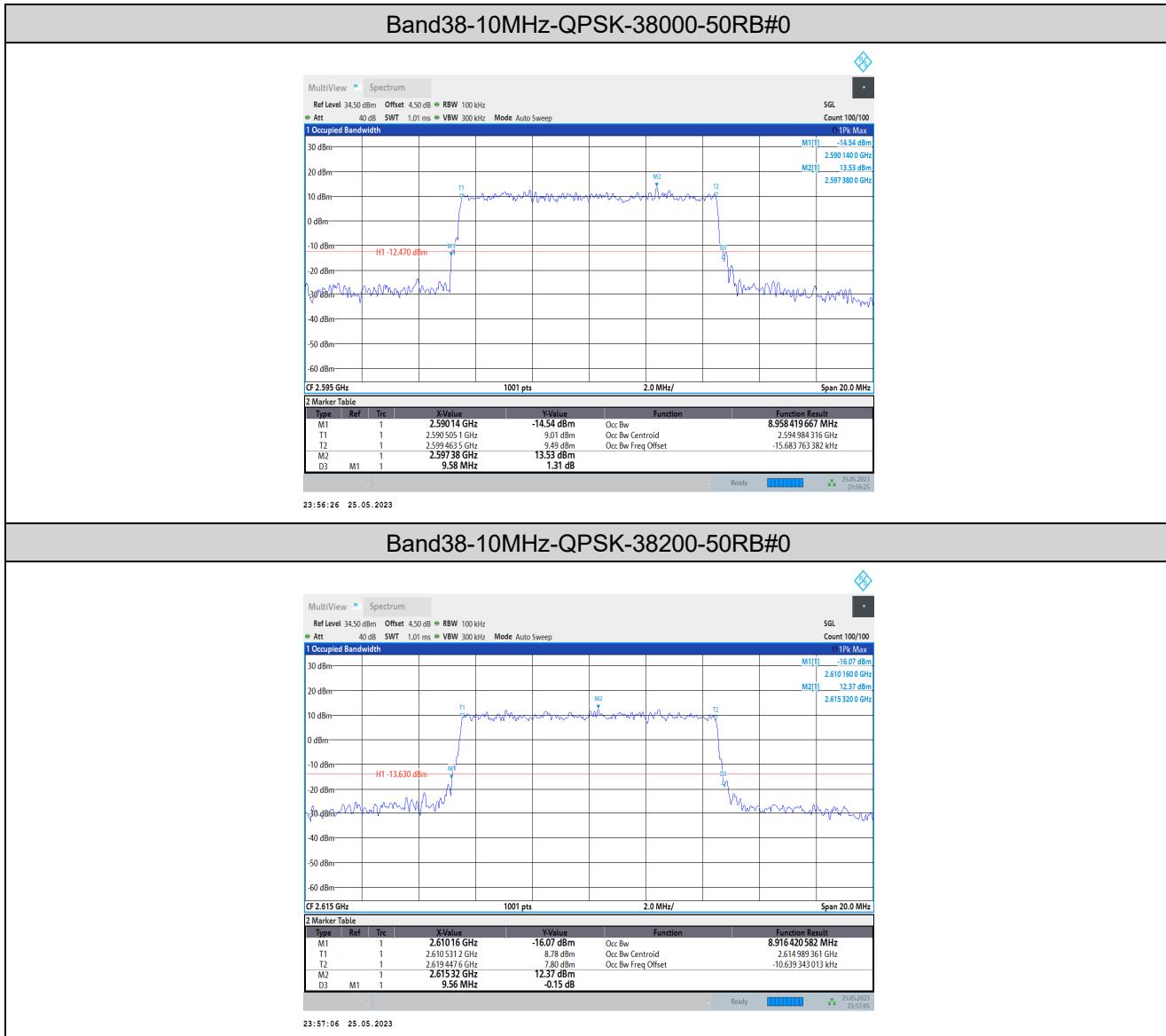


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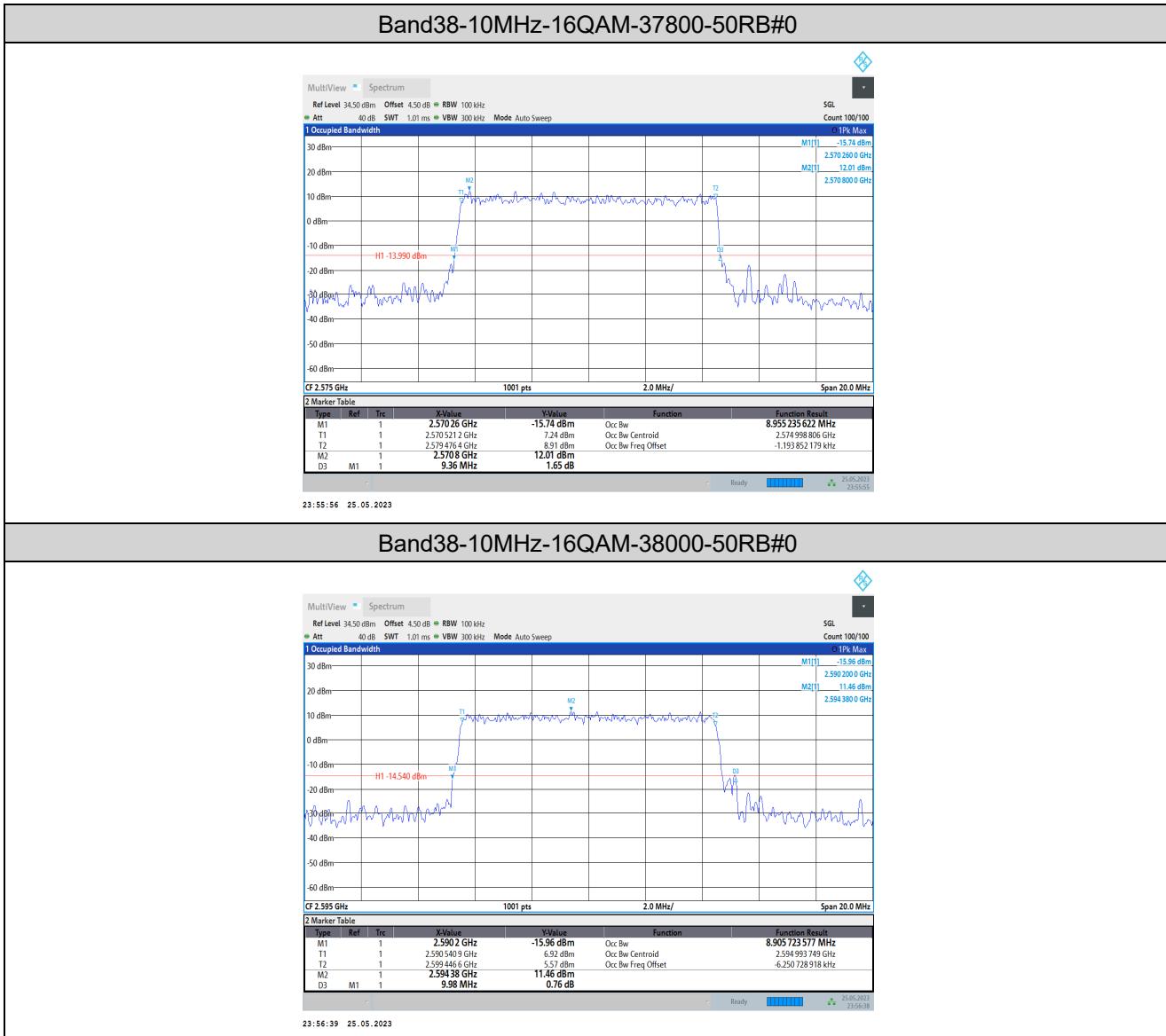


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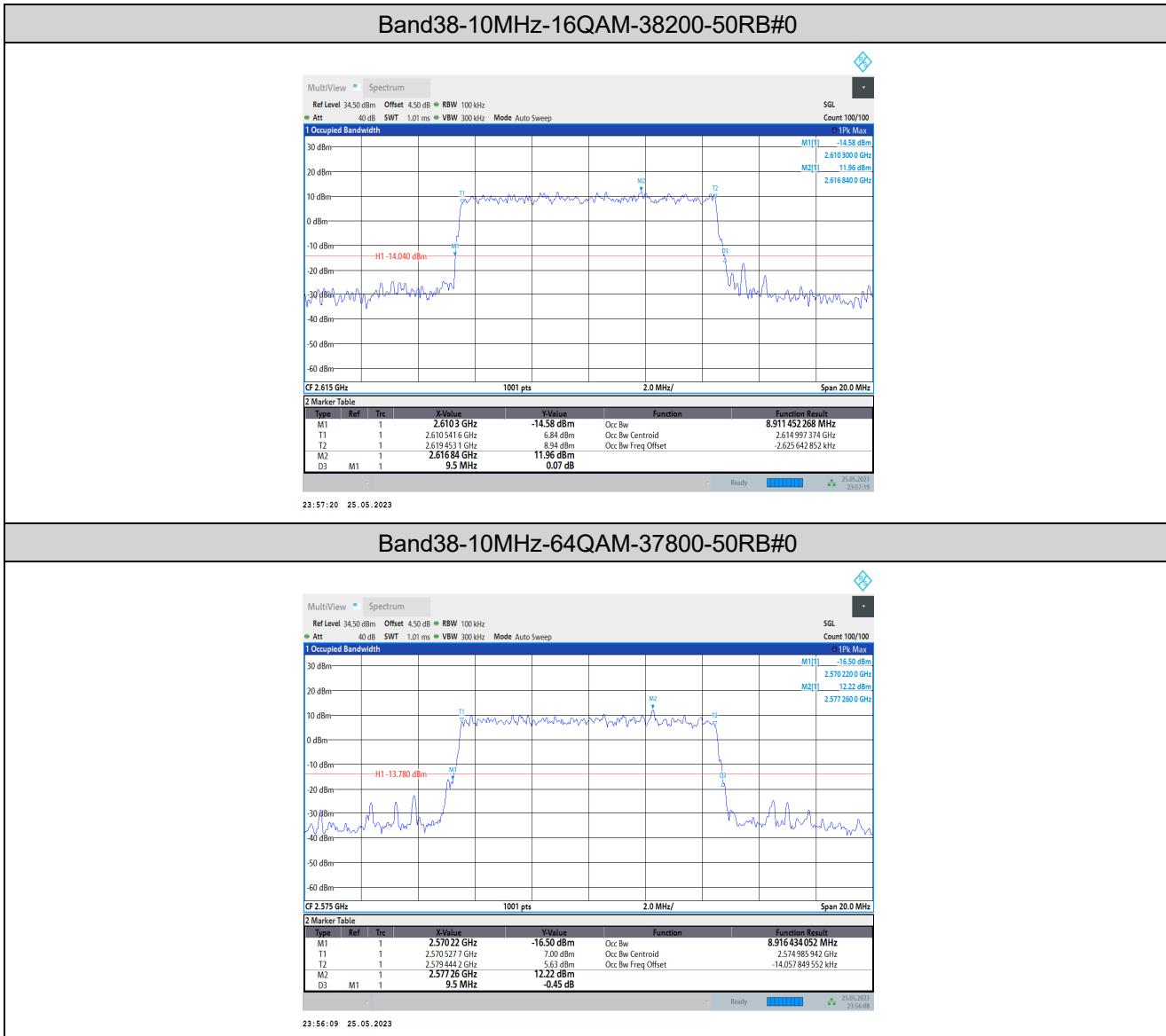


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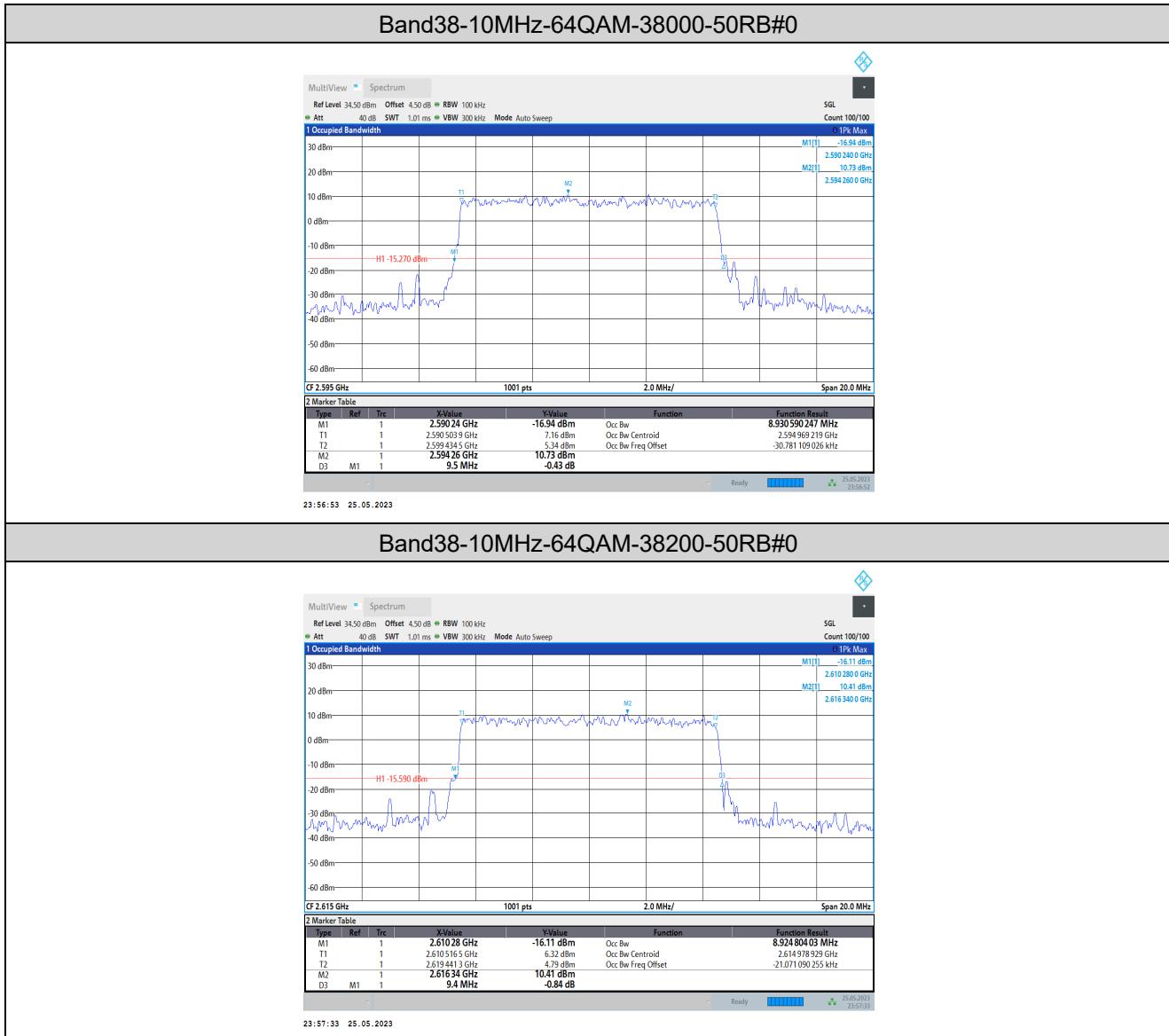
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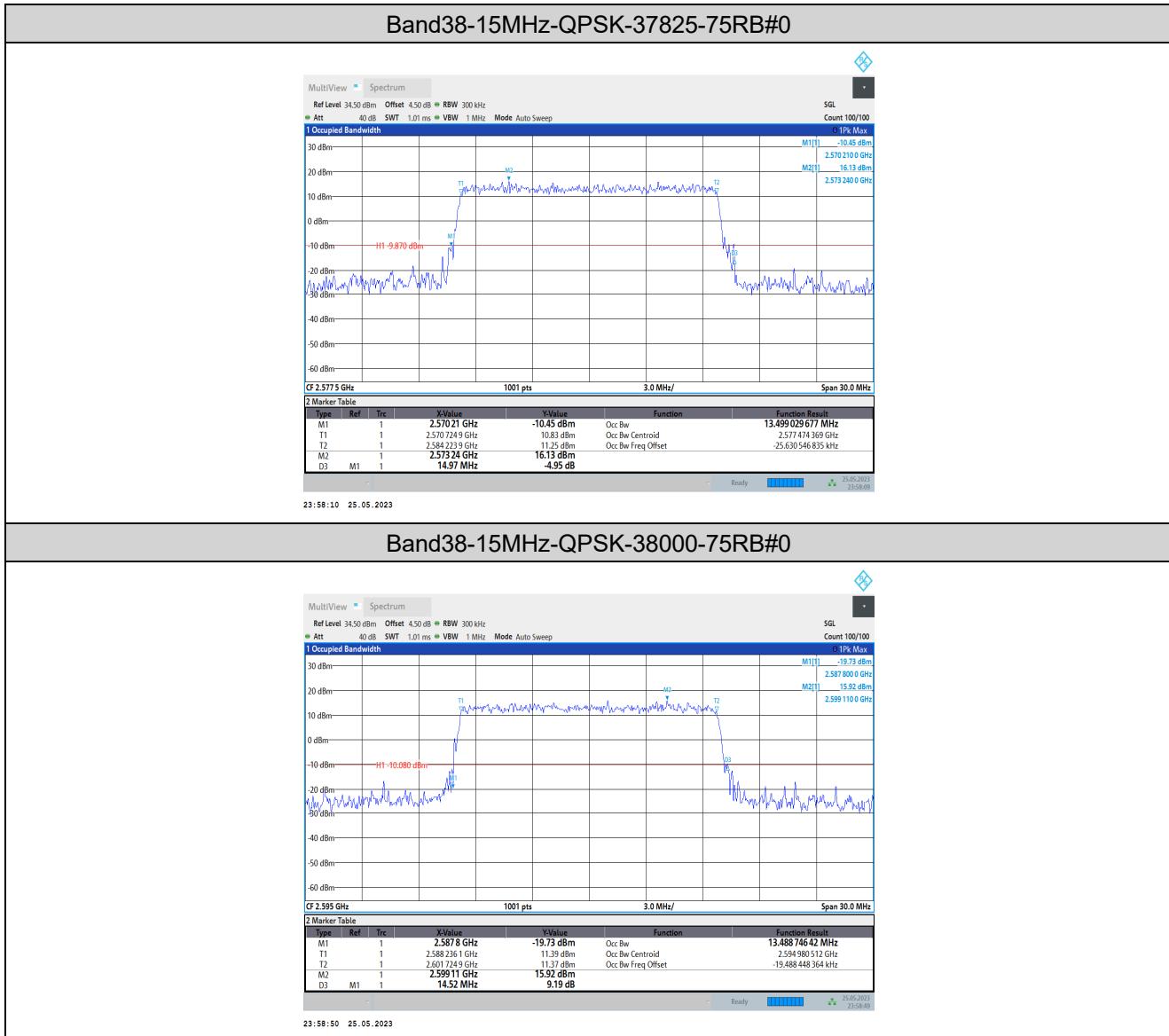


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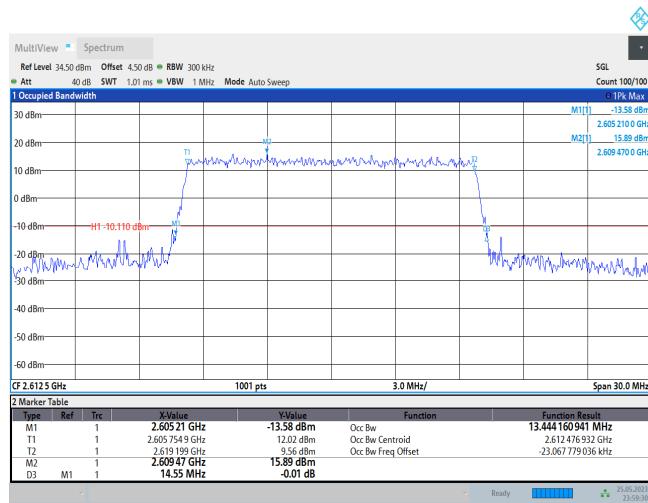
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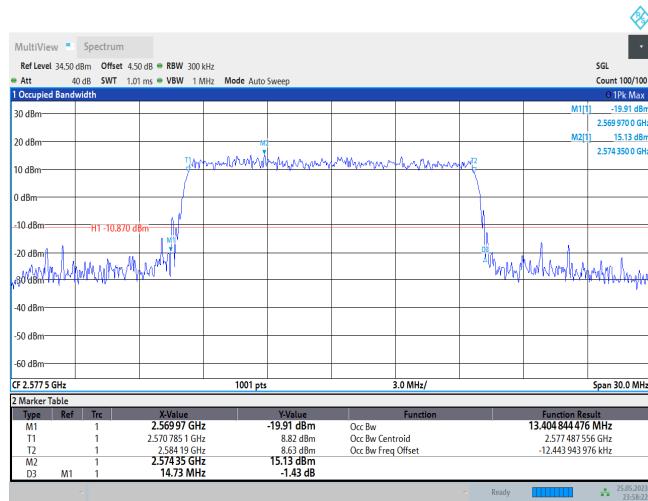
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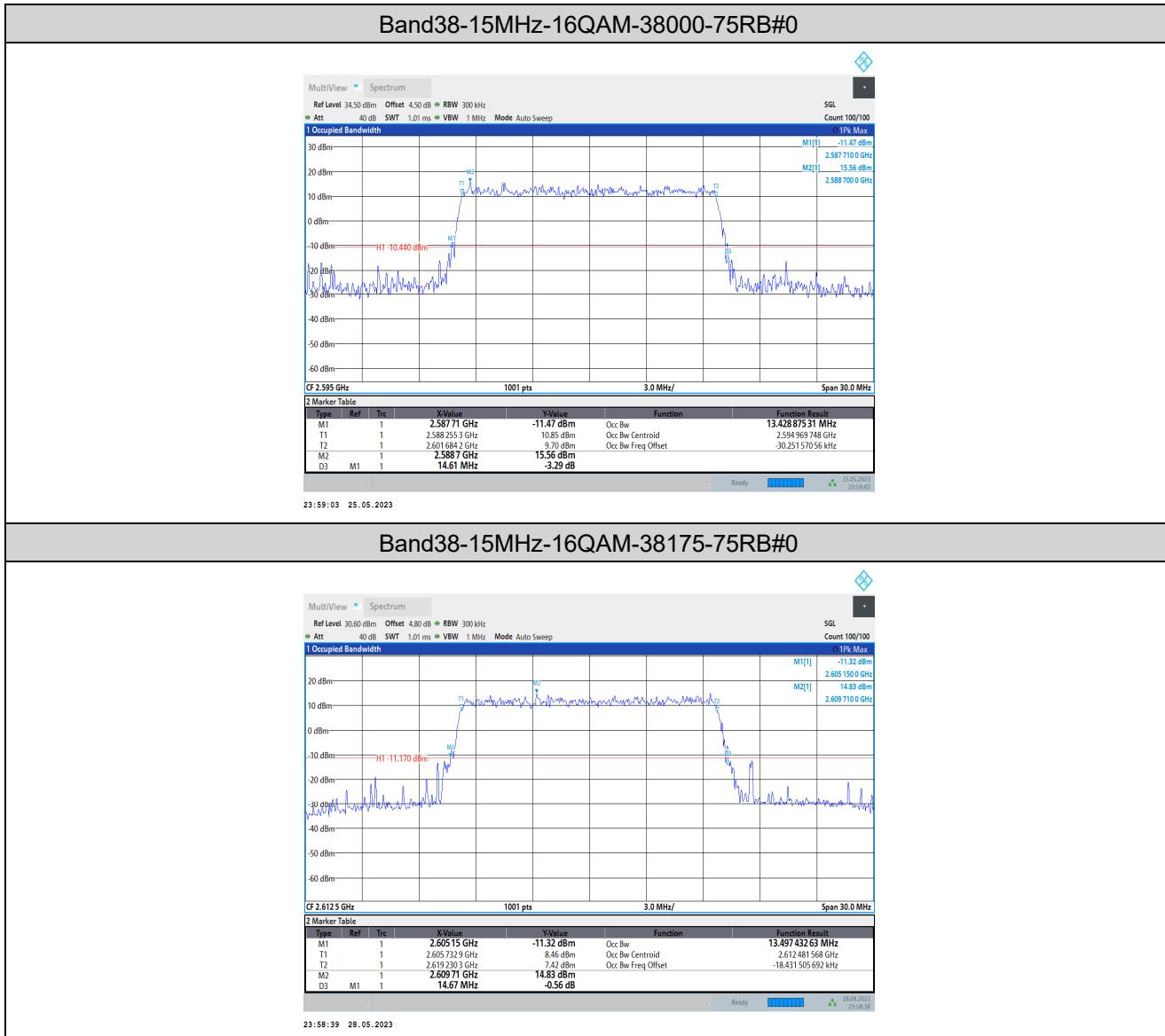


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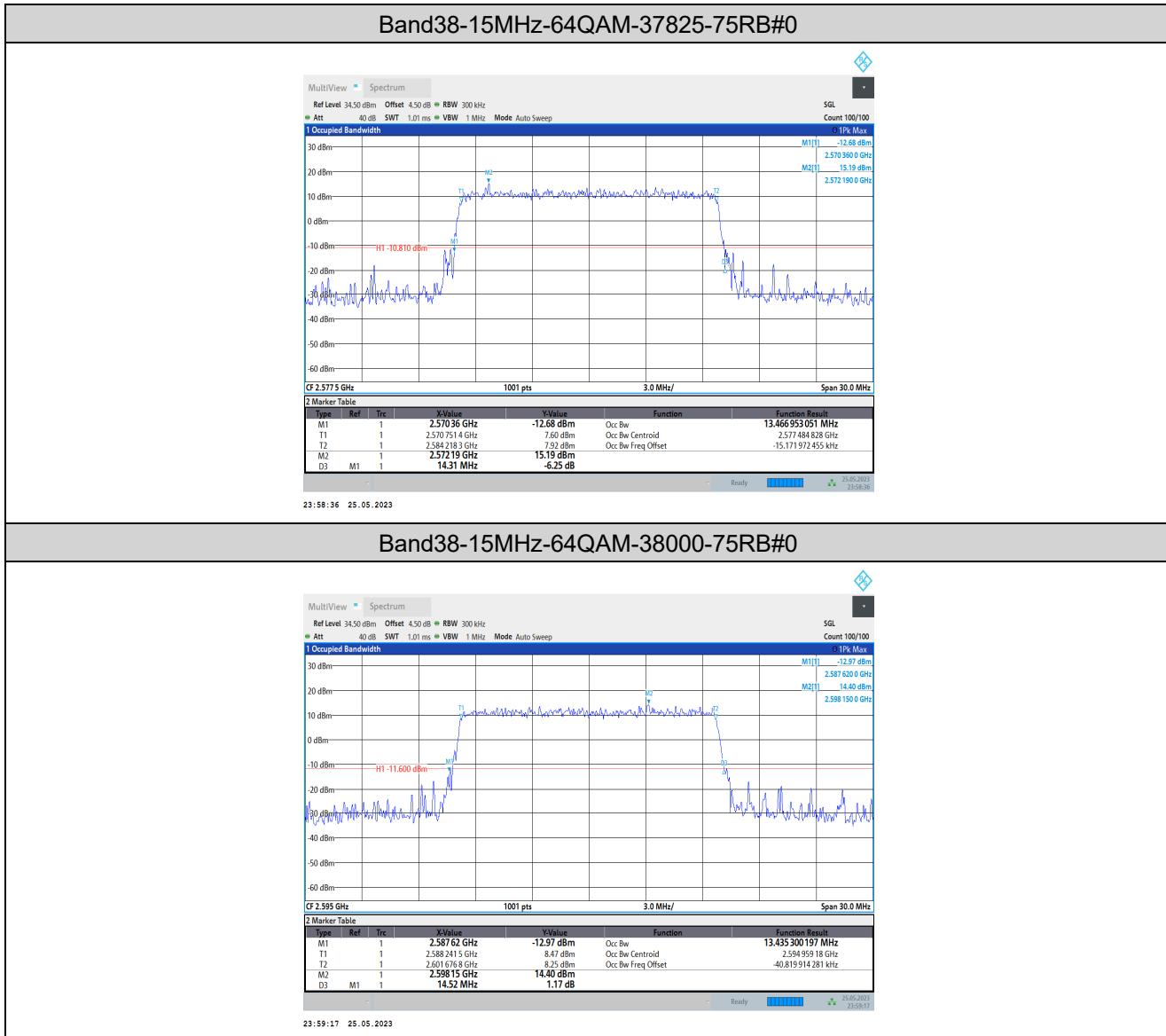
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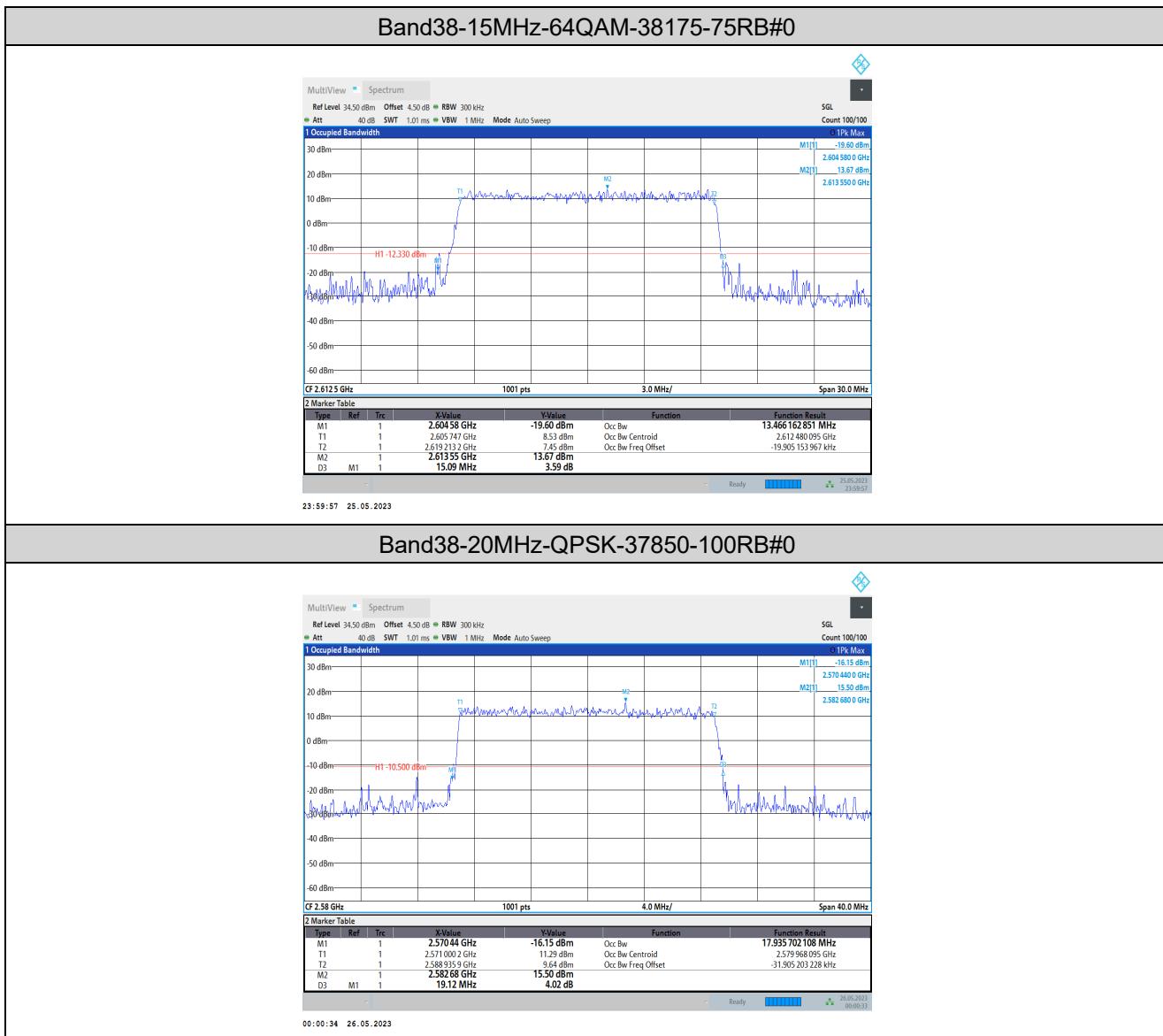


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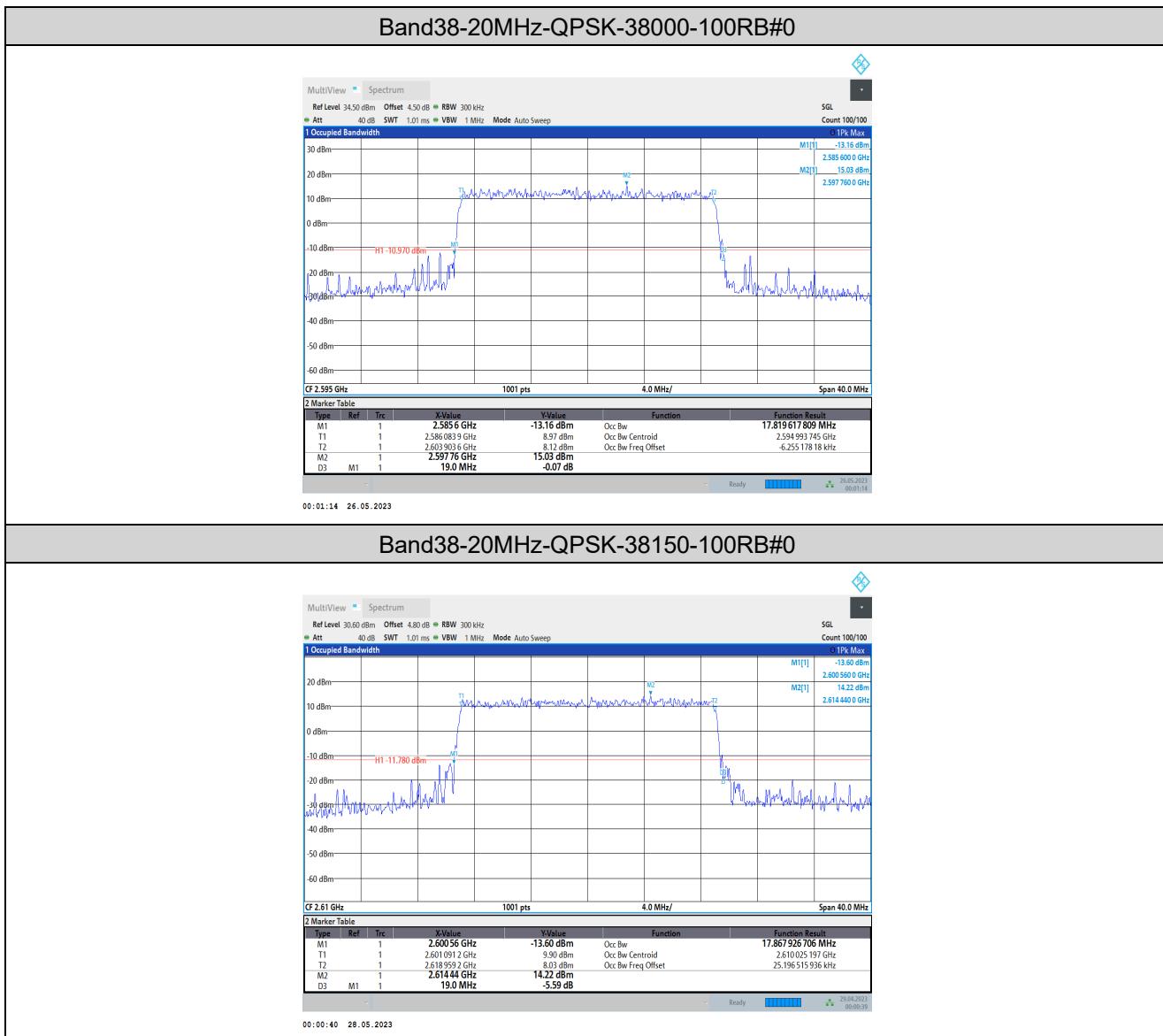


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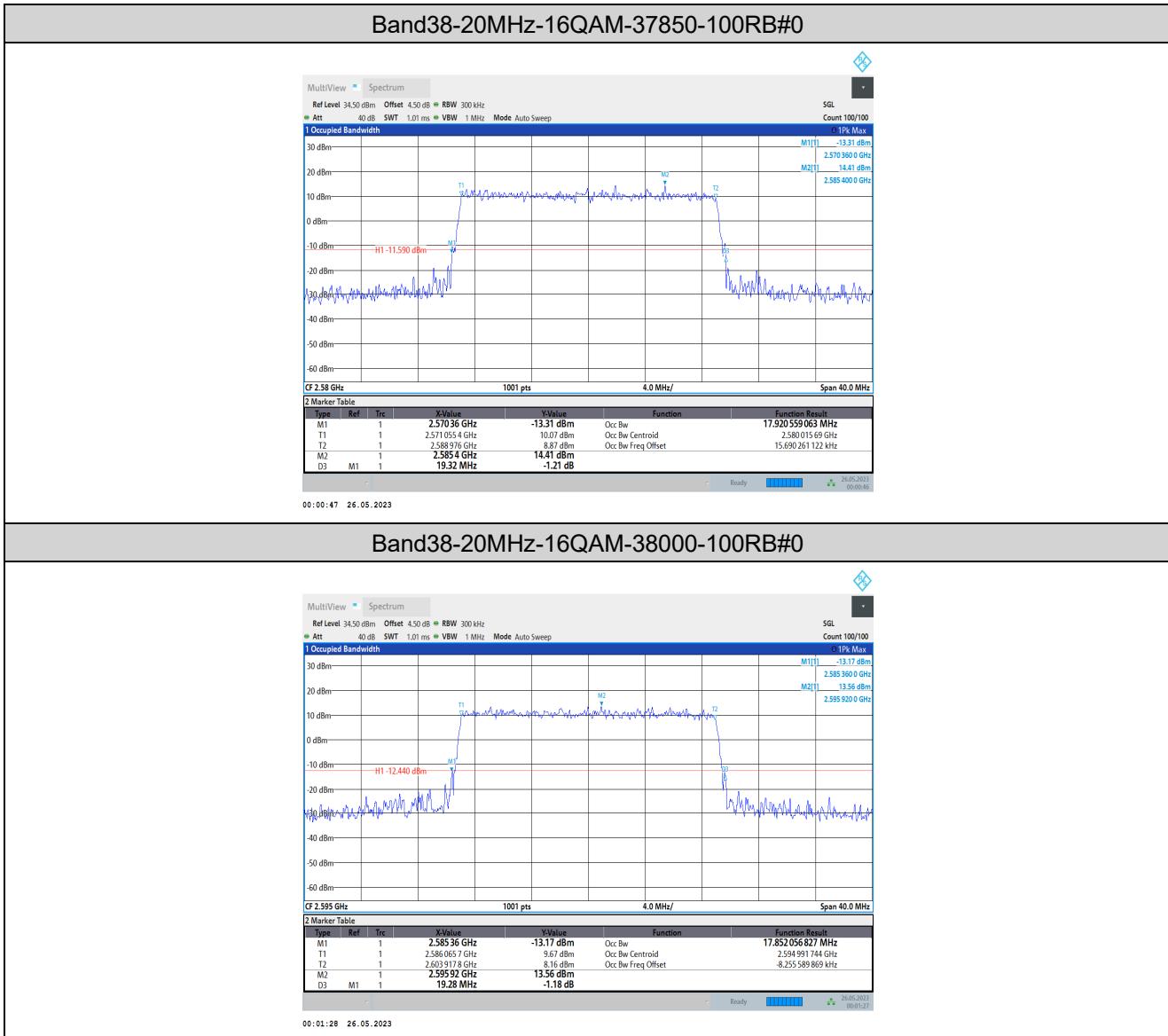


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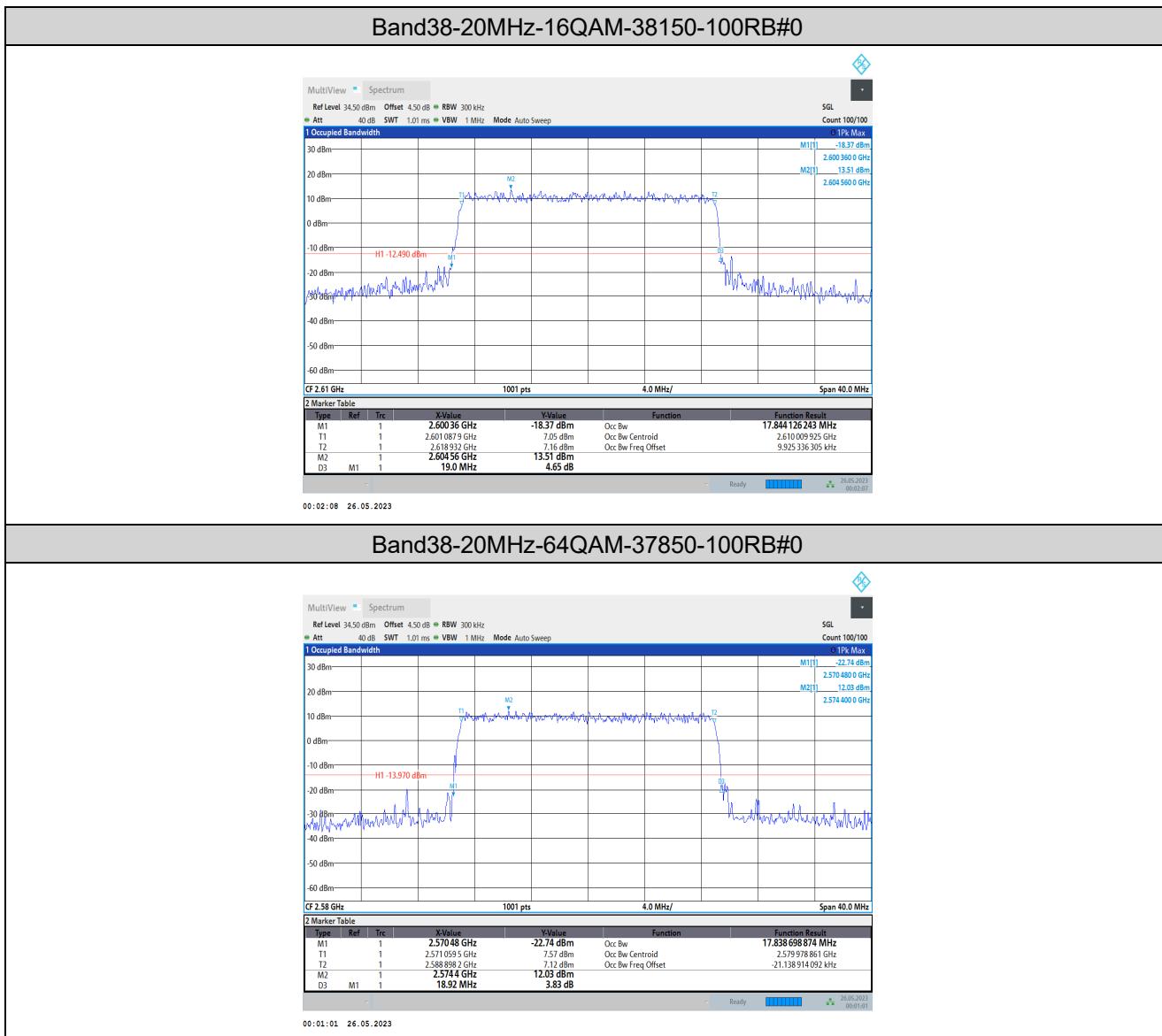
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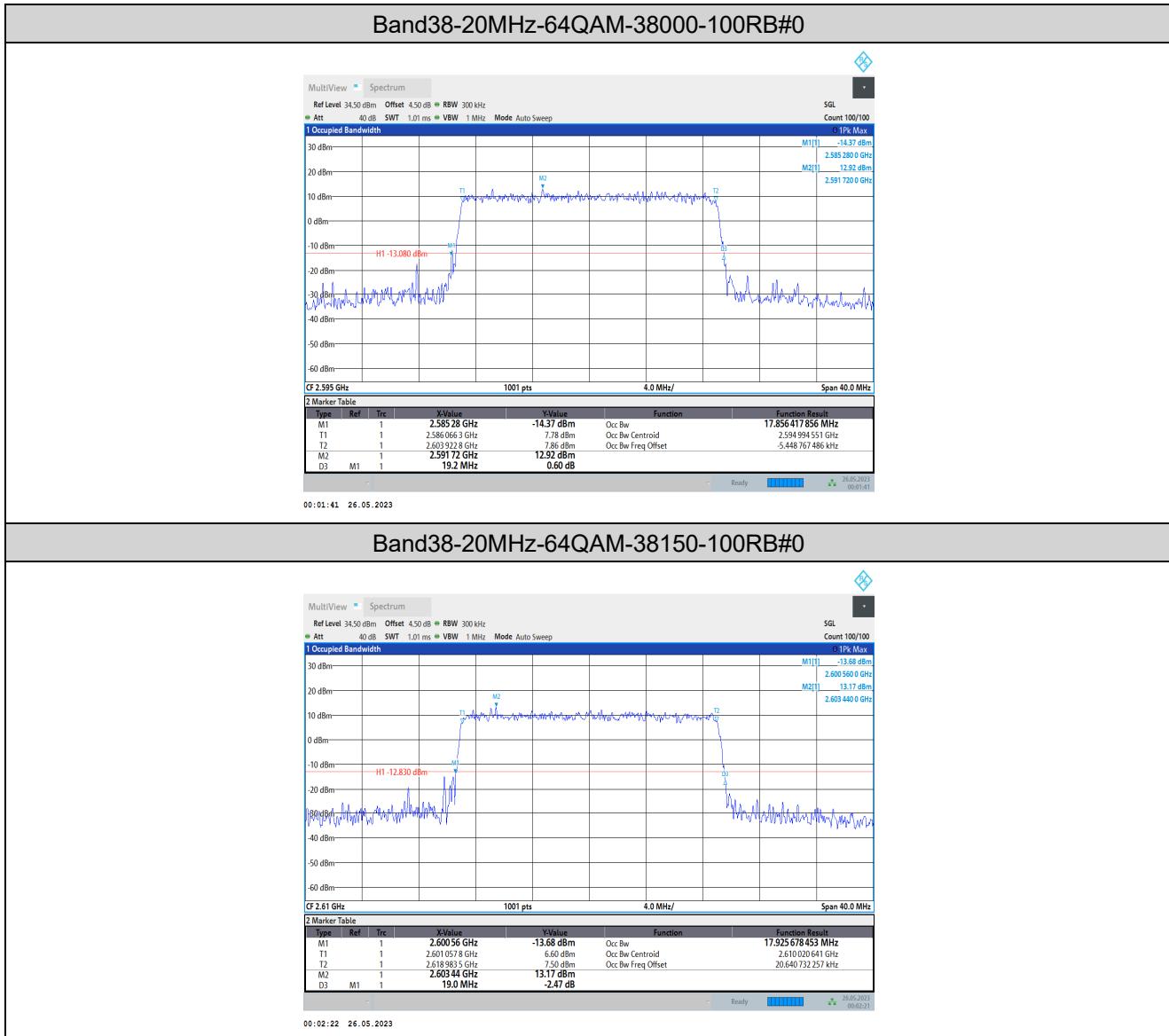


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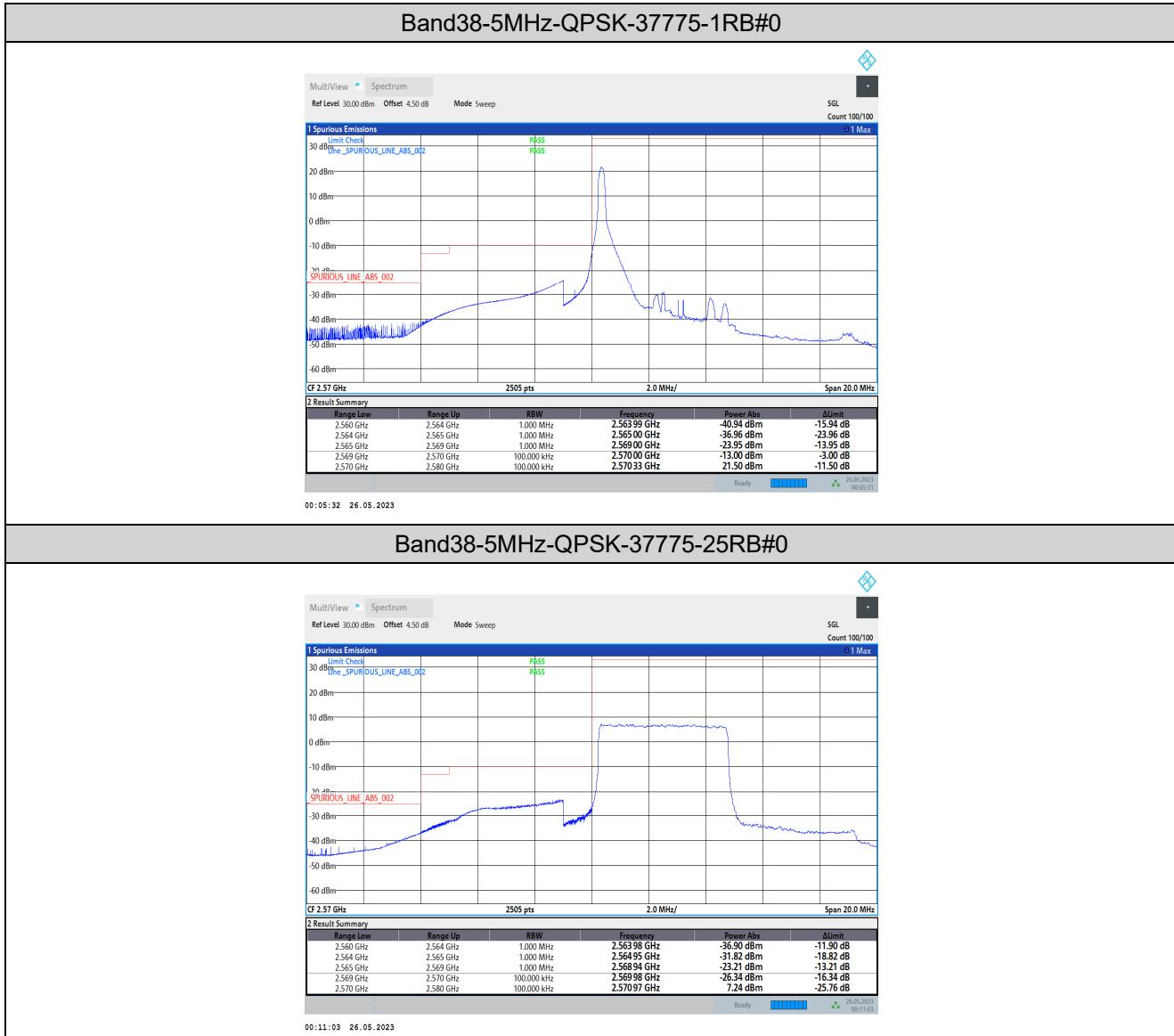
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Band Edge

Test Graphs



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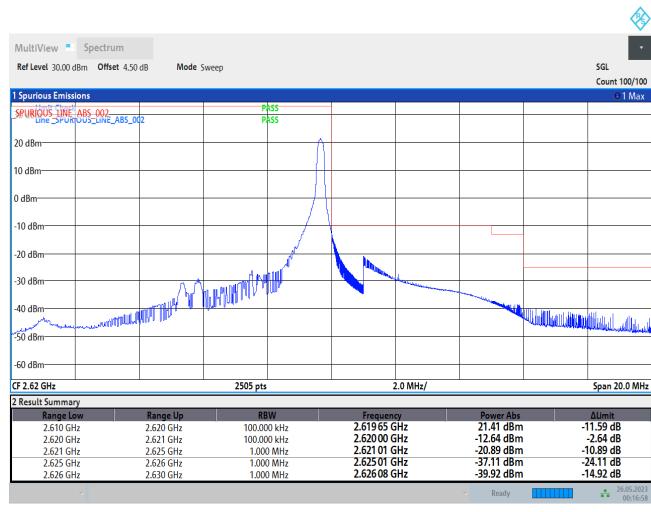
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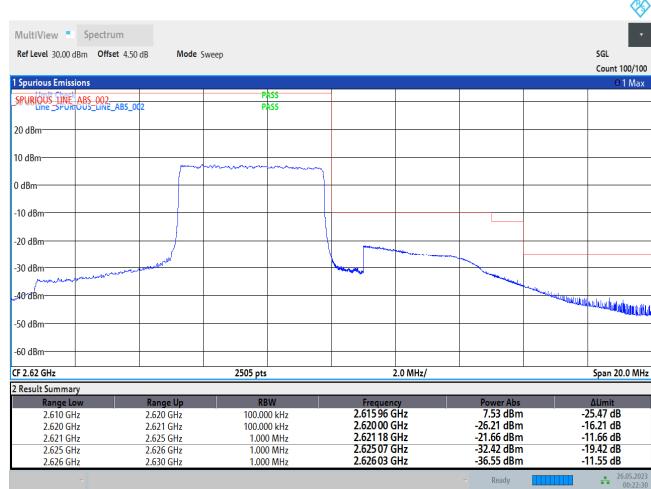
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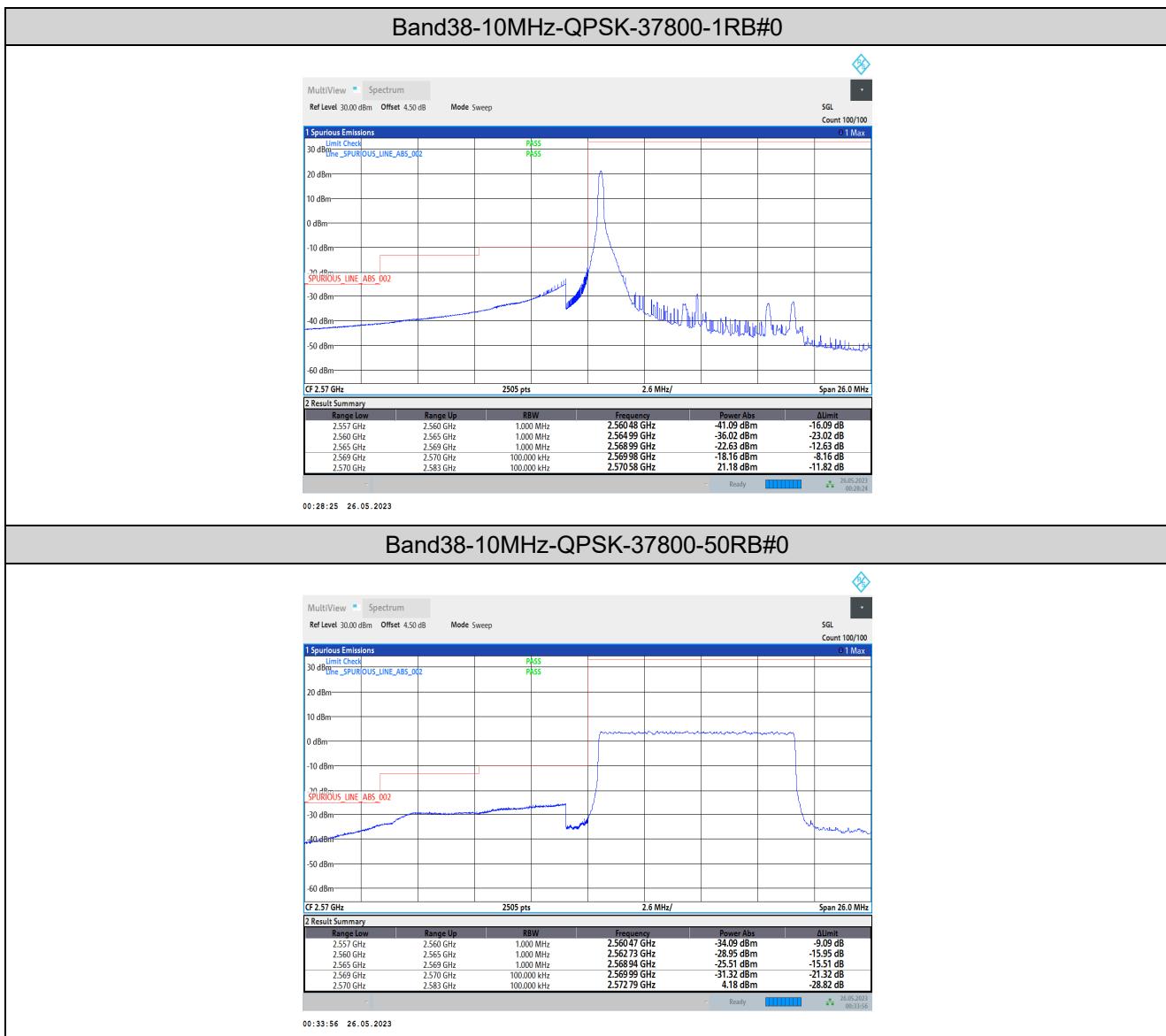


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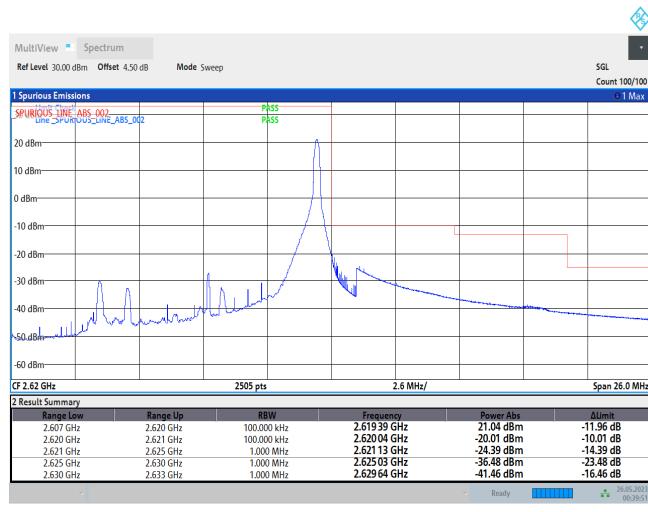
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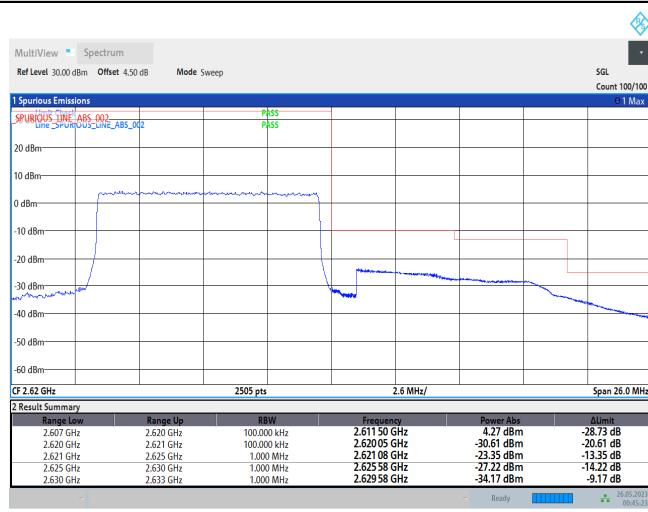
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Band38-10MHz-QPSK-38200-1RB#49



Band38-10MHz-QPSK-38200-50RB#0



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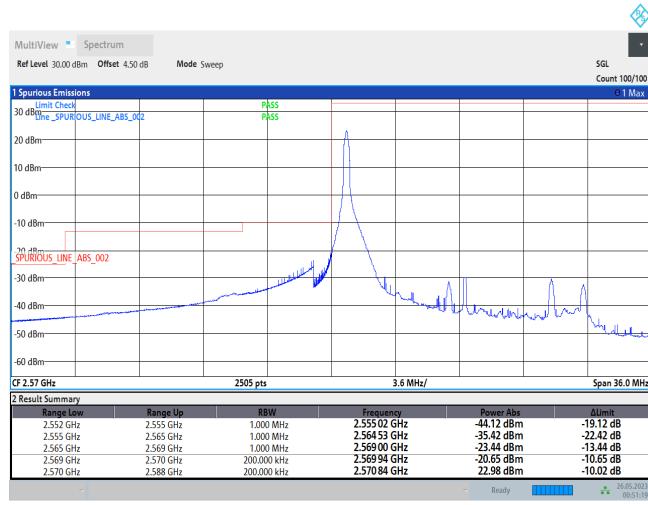


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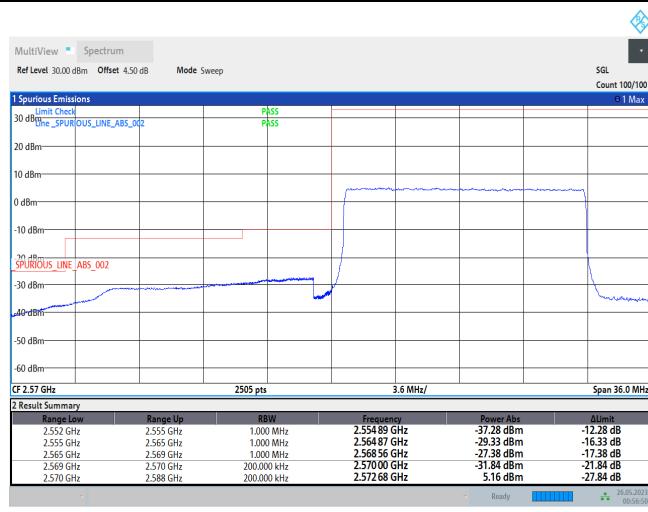
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Band38-15MHz-QPSK-37825-1RB#0



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

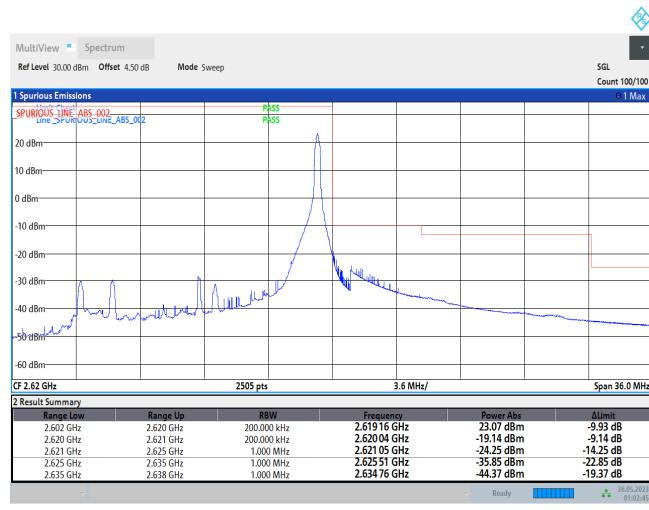


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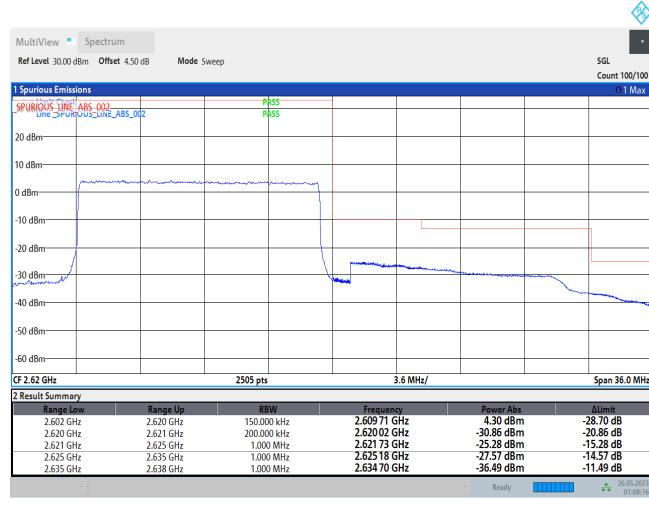
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Band38-15MHz-QPSK-38175-1RB#74



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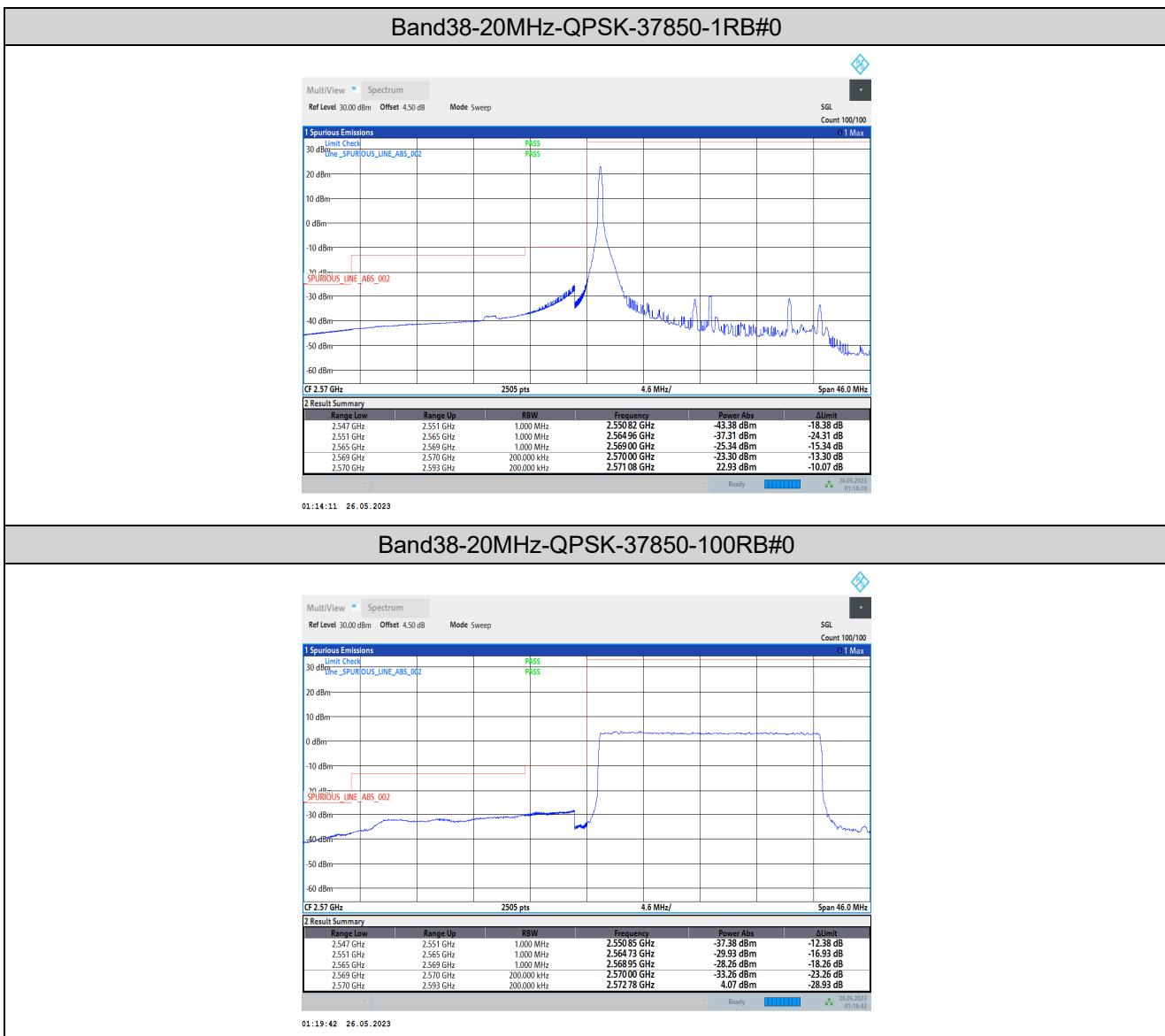


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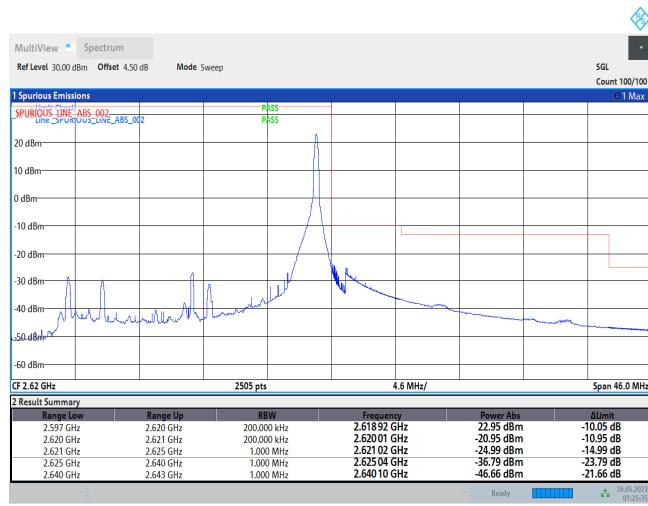
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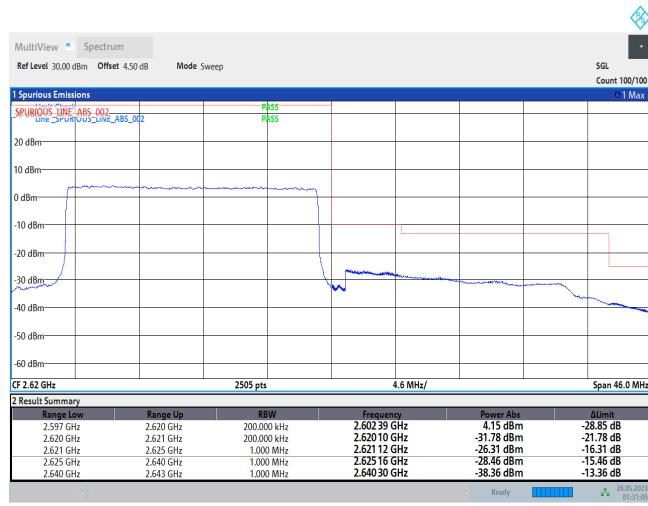
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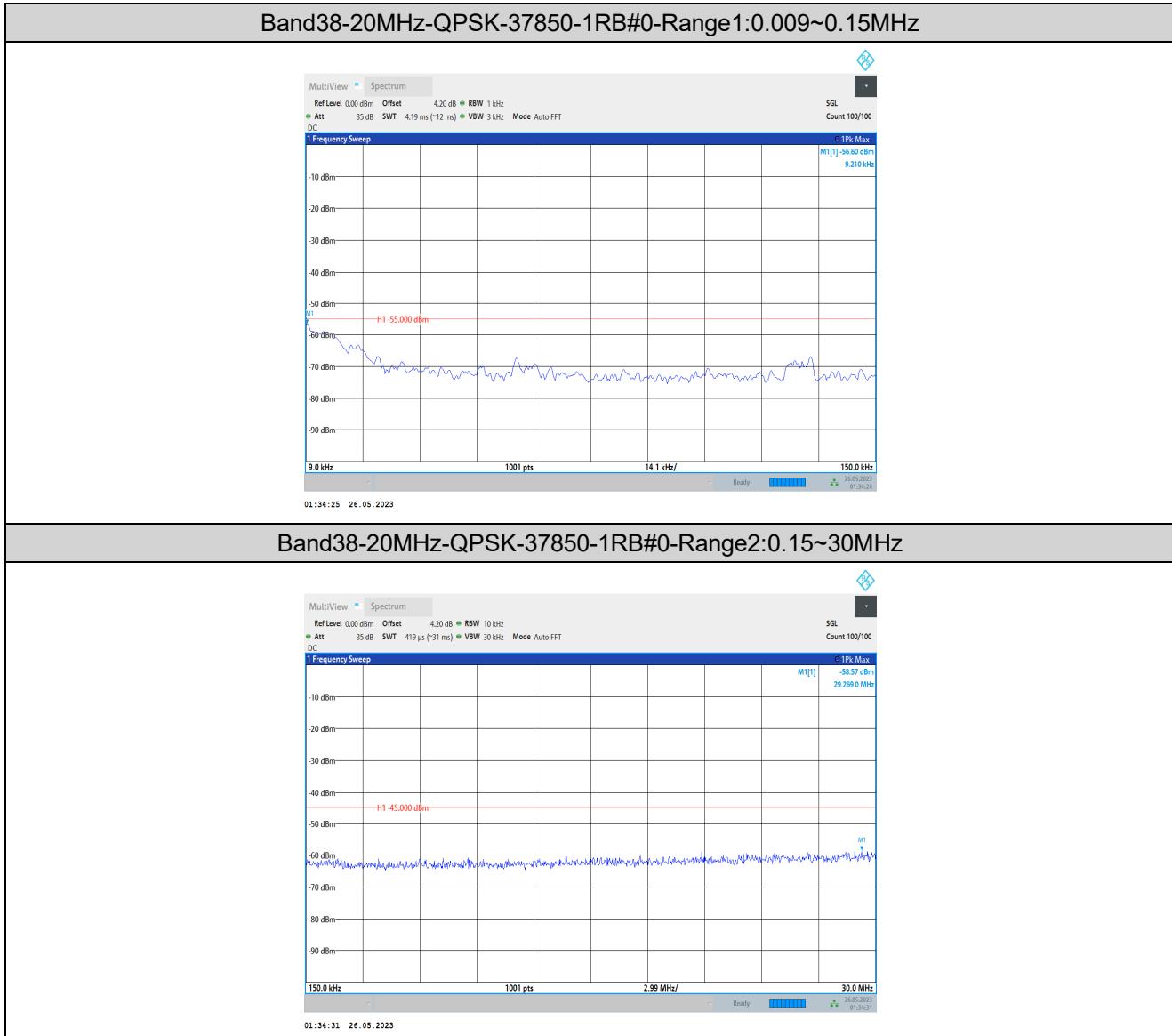
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Conducted Spurious Emission

Test Graphs



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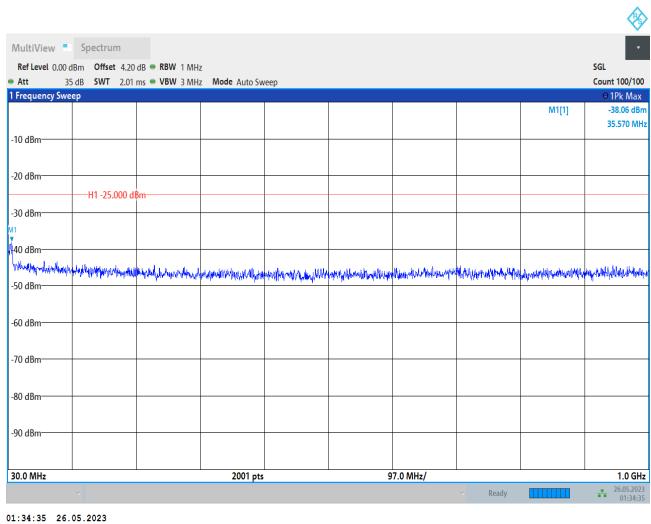
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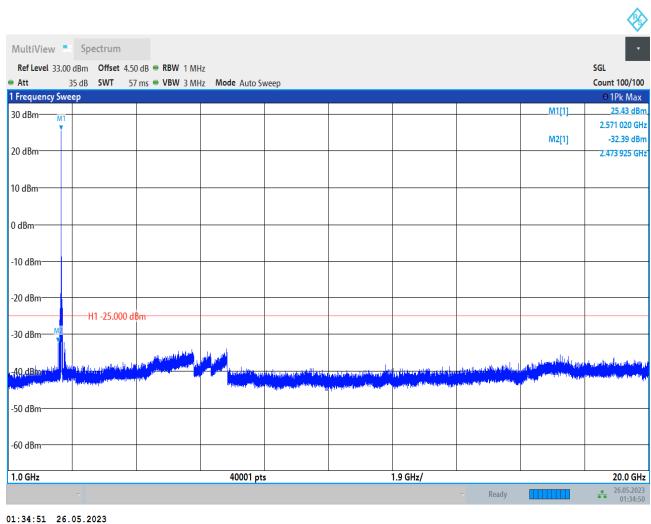
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



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



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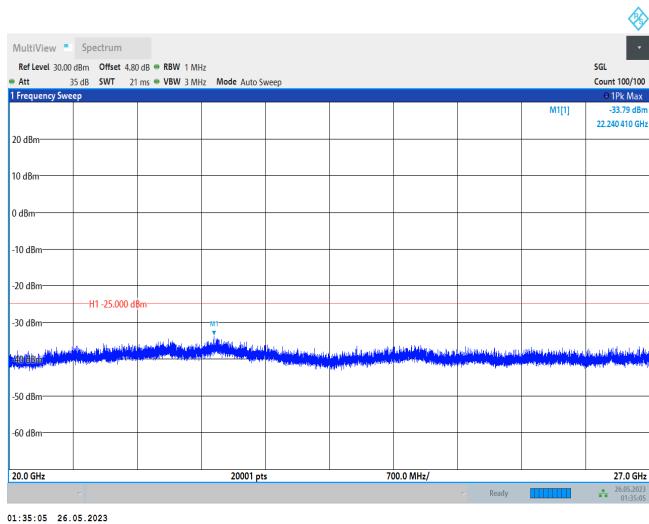
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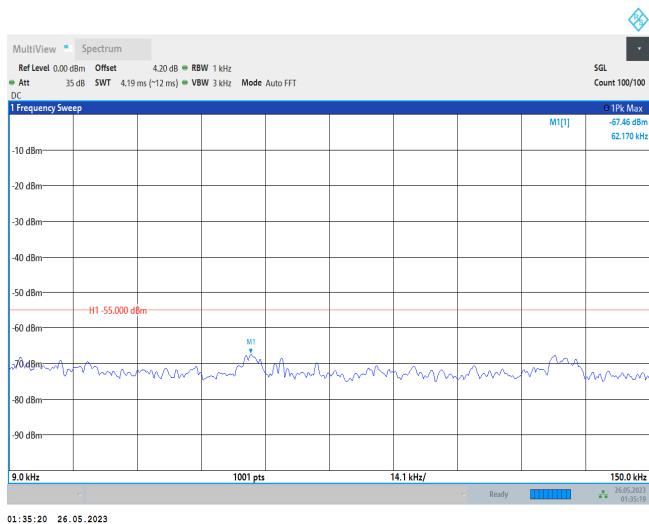
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



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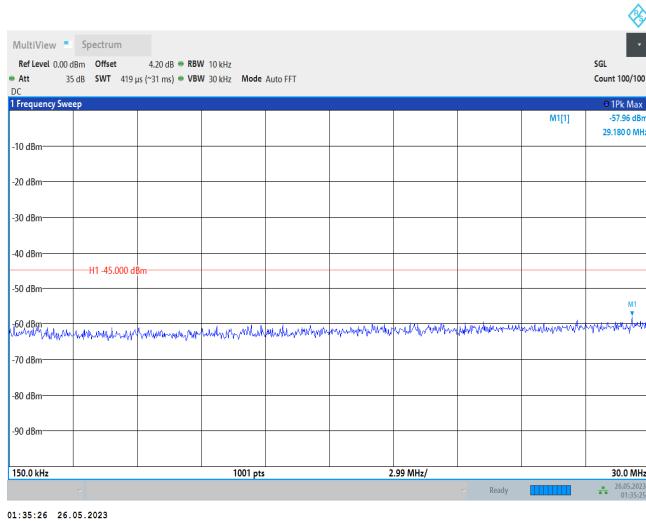
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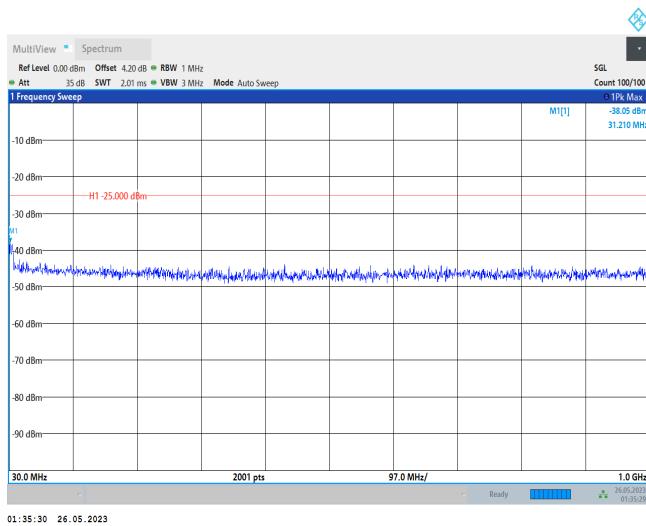
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



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



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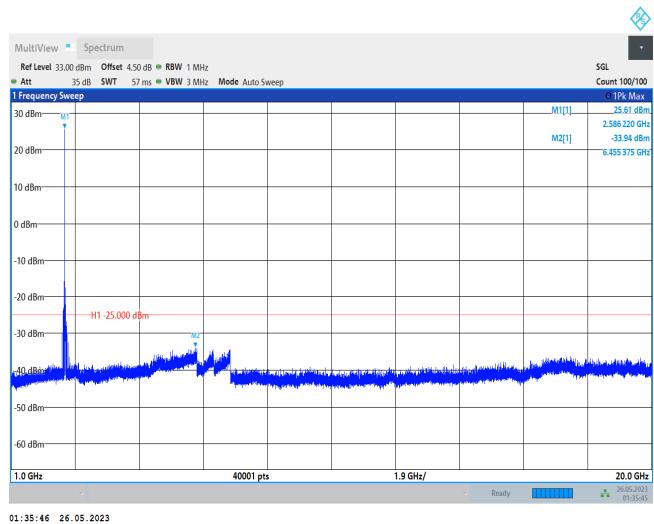
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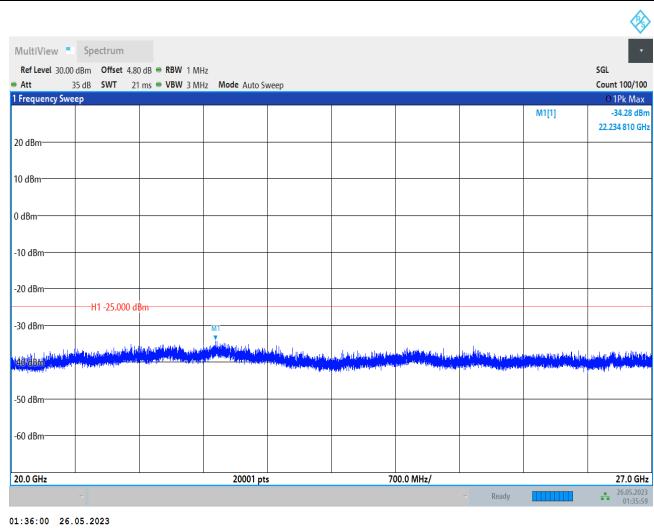
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



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



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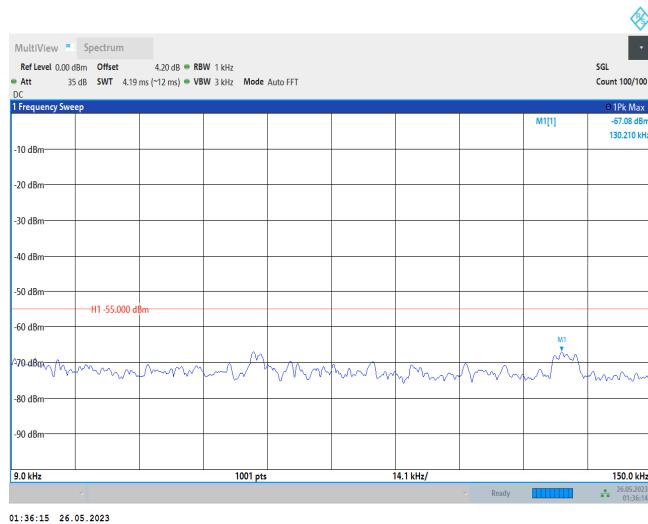
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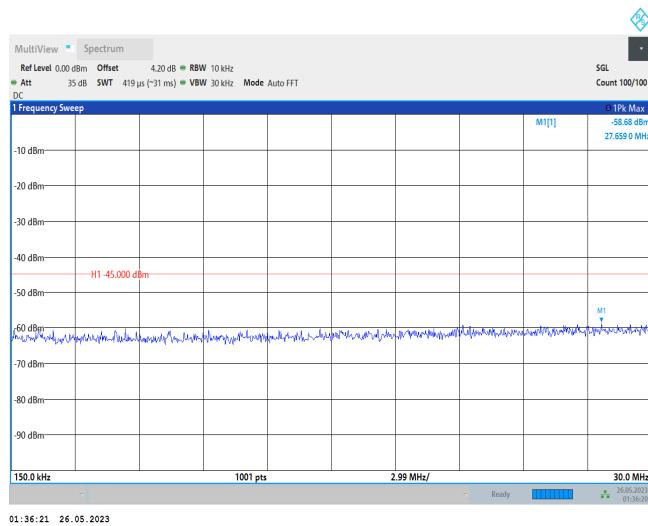
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



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



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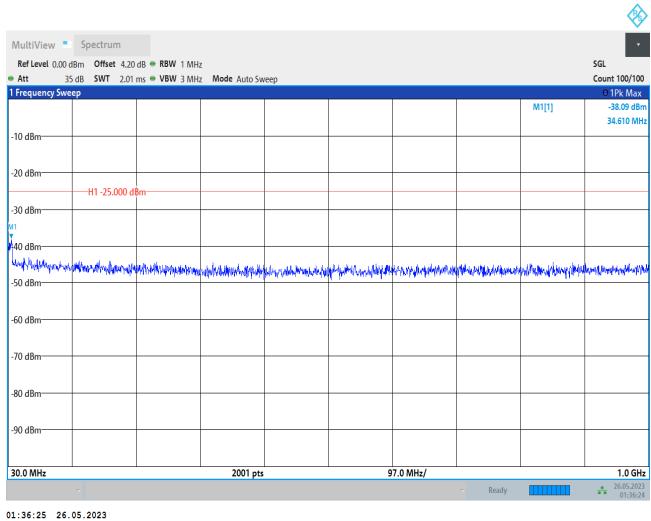
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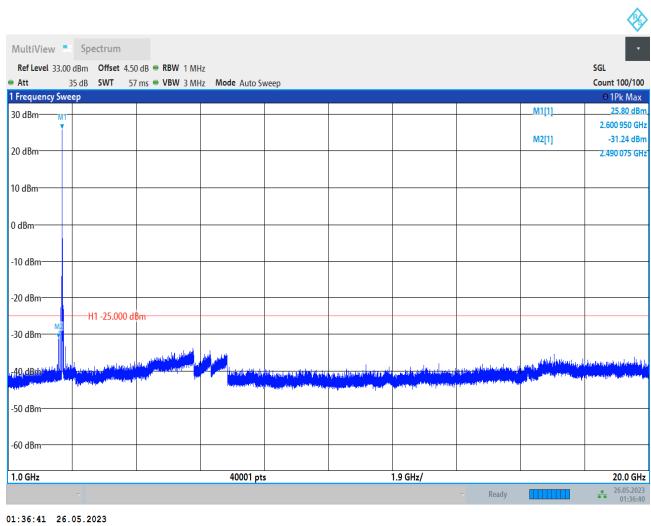
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



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



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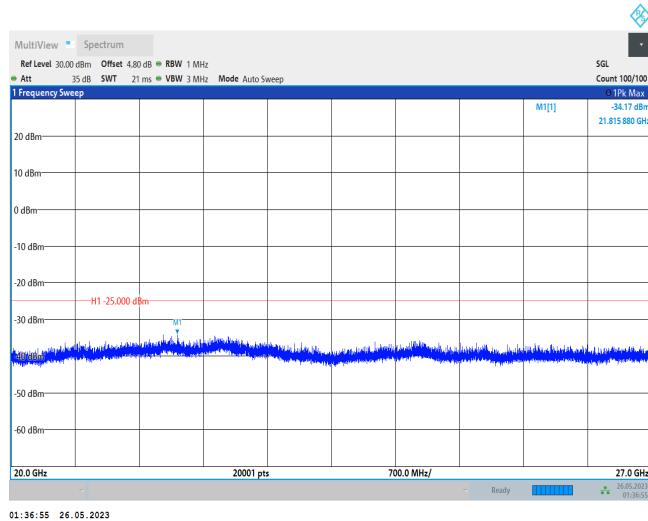
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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 38_ TM1_ Ant13

Test Channel = Low Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	46.07	-44.23	32.60	-60.82	-25.00	35.82	147	69	Horizontal
2	7713.27	42.57	-41.23	36.93	-57.00	-25.00	32.00	289	88	Horizontal
3	10284.36	34.20	-36.79	38.81	-59.03	-25.00	34.03	263	255	Horizontal
4	12855.45	32.91	-34.96	39.46	-57.86	-25.00	32.86	195	192	Horizontal
5	15426.54	31.41	-33.95	38.64	-59.16	-25.00	34.16	221	214	Horizontal
6	17997.63	31.18	-31.42	42.59	-52.91	-25.00	27.91	142	298	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	41.24	-44.23	32.60	-65.65	-25.00	40.65	159	320	Vertical
2	7713.27	40.40	-41.23	36.93	-59.17	-25.00	34.17	284	237	Vertical
3	10284.36	33.92	-36.79	38.81	-59.31	-25.00	34.31	176	14	Vertical
4	12855.45	32.80	-34.96	39.46	-57.97	-25.00	32.97	235	216	Vertical
5	15426.54	30.76	-33.95	38.64	-59.81	-25.00	34.81	144	320	Vertical
6	17997.63	31.78	-31.42	42.59	-52.31	-25.00	27.31	280	0	Vertical



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Test Band = LTE Band 38_ TM1_ Ant13

Test Channel = Mid Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3949	44.21	-45.47	30.48	-66.04	-25.00	41.04	145	170	Horizontal
2	16446	33.38	-32.08	38.21	-55.74	-25.00	30.74	219	46	Horizontal
3	5172.18	48.87	-44.19	32.60	-57.98	-25.00	32.98	233	88	Horizontal
4	7758.27	42.60	-40.91	37.02	-56.56	-25.00	31.56	284	88	Horizontal
5	10344.36	34.01	-36.67	38.88	-59.04	-25.00	34.04	169	0	Horizontal
6	12930.45	32.90	-34.88	39.53	-57.71	-25.00	32.71	287	192	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3951	44.97	-45.46	30.48	-65.27	-25.00	40.27	159	93	Vertical
2	5172.18	43.71	-44.19	32.60	-63.14	-25.00	38.14	302	93	Vertical
3	7758.27	41.94	-40.91	37.02	-57.22	-25.00	32.22	187	261	Vertical
4	10344.36	34.28	-36.67	38.88	-58.77	-25.00	33.77	144	135	Vertical
5	12930.45	33.44	-34.88	39.53	-57.17	-25.00	32.17	169	0	Vertical
6	15516.54	31.13	-34.12	38.53	-59.72	-25.00	34.72	267	283	Vertical



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Test Band = LTE Band 38_ TM1_ Ant13

Test Channel = High Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3969	43.51	-45.46	30.53	-66.68	-25.00	41.68	143	66	Horizontal
2	5202.18	44.69	-44.15	32.60	-62.12	-25.00	37.12	231	66	Horizontal
3	7803.27	40.37	-40.62	37.11	-58.40	-25.00	33.40	218	297	Horizontal
4	10404.36	31.17	-36.47	38.94	-61.61	-25.00	36.61	156	196	Horizontal
5	13005.45	33.01	-34.89	39.60	-57.54	-25.00	32.54	287	257	Horizontal
6	15606.54	31.57	-33.90	38.41	-59.18	-25.00	34.18	194	110	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4103.5	43.04	-45.00	30.77	-66.46	-25.00	41.46	124	71	Vertical
2	5202.18	43.50	-44.15	32.60	-63.31	-25.00	38.31	175	12	Vertical
3	7803.27	41.31	-40.62	37.11	-57.46	-25.00	32.46	189	218	Vertical
4	10404.36	31.95	-36.47	38.94	-60.83	-25.00	35.83	263	0	Vertical
5	13005.45	32.49	-34.89	39.60	-58.06	-25.00	33.06	254	0	Vertical
6	15606.54	31.49	-33.90	38.41	-59.26	-25.00	34.26	144	136	Vertical



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Test Band = LTE Band 38_ TM1_ Ant31

Test Channel = Low Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	40.55	-44.23	32.60	-66.34	-25.00	41.34	217	260	Horizontal
2	7713.27	38.00	-41.23	36.93	-61.57	-25.00	36.57	183	135	Horizontal
3	10284.36	33.46	-36.79	38.81	-59.77	-25.00	34.77	208	357	Horizontal
4	12855.45	32.31	-34.96	39.46	-58.46	-25.00	33.46	191	357	Horizontal
5	15426.54	31.45	-33.95	38.64	-59.12	-25.00	34.12	245	357	Horizontal
6	17997.63	31.42	-31.42	42.59	-52.67	-25.00	27.67	166	27	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5142.18	41.85	-44.23	32.60	-65.04	-25.00	40.04	241	135	Vertical
2	7713.27	37.28	-41.23	36.93	-62.29	-25.00	37.29	255	357	Vertical
3	10284.36	32.94	-36.79	38.81	-60.29	-25.00	35.29	168	93	Vertical
4	12855.45	32.49	-34.96	39.46	-58.28	-25.00	33.28	295	357	Vertical
5	15426.54	30.64	-33.95	38.64	-59.93	-25.00	34.93	173	197	Vertical
6	17997.63	30.83	-31.42	42.59	-53.26	-25.00	28.26	207	319	Vertical



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Test Band = LTE Band 38_ TM1_ Ant31

Test Channel = Mid Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4112	43.44	-45.00	30.78	-66.04	-25.00	41.04	248	131	Horizontal
2	5172.18	45.93	-44.19	32.60	-60.92	-25.00	35.92	193	50	Horizontal
3	7758.27	48.51	-40.91	37.02	-50.65	-25.00	25.65	268	90	Horizontal
4	10344.36	35.54	-36.67	38.88	-57.51	-25.00	32.51	140	194	Horizontal
5	12930.45	33.79	-34.88	39.53	-56.82	-25.00	31.82	126	0	Horizontal
6	15516.54	31.18	-34.12	38.53	-59.67	-25.00	34.67	234	3	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4085.5	44.03	-45.07	30.74	-65.56	-25.00	40.56	134	50	Vertical
2	5172.18	42.96	-44.19	32.60	-63.89	-25.00	38.89	171	4	Vertical
3	7758.27	44.70	-40.91	37.02	-54.46	-25.00	29.46	289	340	Vertical
4	10344.36	34.18	-36.67	38.88	-58.87	-25.00	33.87	165	0	Vertical
5	12930.45	32.86	-34.88	39.53	-57.75	-25.00	32.75	204	112	Vertical
6	15516.54	31.81	-34.12	38.53	-59.04	-25.00	34.04	176	1	Vertical



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Test Band = LTE Band 38_ TM1_ Ant31

Test Channel = High Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4042	43.70	-45.26	30.67	-66.15	-25.00	41.15	142	340	Horizontal
2	5202.18	45.97	-44.15	32.60	-60.84	-25.00	35.84	236	0	Horizontal
3	7803.27	42.09	-40.62	37.11	-56.68	-25.00	31.68	284	130	Horizontal
4	10404.36	31.50	-36.47	38.94	-61.28	-25.00	36.28	188	68	Horizontal
5	13005.45	33.18	-34.89	39.60	-57.37	-25.00	32.37	176	319	Horizontal
6	15606.54	32.13	-33.90	38.41	-58.62	-25.00	33.62	294	172	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4064.5	43.91	-45.16	30.70	-65.81	-25.00	40.81	203	10	Vertical
2	5202.18	46.06	-44.15	32.60	-60.75	-25.00	35.75	194	257	Vertical
3	7803.27	43.63	-40.62	37.11	-55.14	-25.00	30.14	274	88	Vertical
4	10404.36	31.44	-36.47	38.94	-61.34	-25.00	36.34	185	66	Vertical
5	13005.45	32.35	-34.89	39.60	-58.20	-25.00	33.20	164	297	Vertical
6	15606.54	31.49	-33.90	38.41	-59.26	-25.00	34.26	275	0	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	-2.70	-0.001040	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-12.80	-0.004933	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-1.20	-0.000462	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	1.70	0.000655	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	6.80	0.002620	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	5.40	0.002081	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	9.30	0.003584	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	7.60	0.002929	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	5.70	0.002197	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-0.40	-0.000154	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	5.10	0.001965	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	9.90	0.003815	PASS

---End of Attachment---



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