Appendix for LTE BAND 38

Product Name: Mobile Phone
Model No: SIMPLE

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.03	PASS
Band38	5MHz	QPSK	37775	1RB#12	20.98	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.00	PASS
Band38	5MHz	QPSK	37775	12RB#0	20.41	PASS
Band38	5MHz	QPSK	37775	12RB#6	20.44	PASS
Band38	5MHz	QPSK	37775	12RB#13	20.46	PASS
Band38	5MHz	QPSK	37775	25RB#0	20.48	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.70	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.92	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.89	PASS
Band38	5MHz	16QAM	37775	12RB#0	19.43	PASS
Band38	5MHz	16QAM	37775	12RB#6	19.45	PASS
Band38	5MHz	16QAM	37775	12RB#13	19.29	PASS
Band38	5MHz	16QAM	37775	25RB#0	19.48	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.22	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.17	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.12	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.41	PASS
Band38	5MHz	QPSK	38000	12RB#6	20.43	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.40	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.44	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.44	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.36	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.37	PASS
Band38	5MHz	16QAM	38000	12RB#0	19.45	PASS
Band38	5MHz	16QAM	38000	12RB#6	19.46	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.41	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.62	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.01	PASS
Band38	5MHz	QPSK	38225	1RB#12	20.99	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.08	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.33	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.36	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.33	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.36	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.36	PASS

Band38	5MHz	16QAM	38225	1RB#12	21.38	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.31	PASS
Band38	5MHz	16QAM	38225	12RB#0	19.32	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.33	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.31	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.41	PASS
Band38	10MHz	QPSK	37800	1RB#0	21.41	PASS
Band38	10MHz	QPSK	37800	1RB#24	21.44	PASS
Band38	10MHz	QPSK	37800	1RB#49	21.39	PASS
Band38	10MHz	QPSK	37800	25RB#0	20.46	PASS
Band38	10MHz	QPSK	37800	25RB#12	20.48	PASS
Band38	10MHz	QPSK	37800	25RB#25	20.43	PASS
Band38	10MHz	QPSK	37800	50RB#0	20.18	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.47	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.32	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.33	PASS
Band38	10MHz	16QAM	37800	25RB#0	19.51	PASS
Band38	10MHz	16QAM	37800	25RB#12	19.51	PASS
Band38	10MHz	16QAM	37800	25RB#25	19.53	PASS
Band38	10MHz	16QAM	37800	50RB#0	19.31	PASS
Band38	10MHz	QPSK	38000	1RB#0	21.09	PASS
Band38	10MHz	QPSK	38000	1RB#24	21.01	PASS
Band38	10MHz	QPSK	38000	1RB#49	20.95	PASS
Band38	10MHz	QPSK	38000	25RB#0	20.40	PASS
Band38	10MHz	QPSK	38000	25RB#12	20.41	PASS
Band38	10MHz	QPSK	38000	25RB#25	20.44	PASS
Band38	10MHz	QPSK	38000	50RB#0	20.09	PASS
Band38	10MHz	16QAM	38000	1RB#0	20.78	PASS
Band38	10MHz	16QAM	38000	1RB#24	20.66	PASS
Band38	10MHz	16QAM	38000	1RB#49	20.72	PASS
Band38	10MHz	16QAM	38000	25RB#0	19.94	PASS
Band38	10MHz	16QAM	38000	25RB#12	19.94	PASS
Band38	10MHz	16QAM	38000	25RB#25	19.86	PASS
Band38	10MHz	16QAM	38000	50RB#0	19.07	PASS
Band38	10MHz	QPSK	38200	1RB#0	21.25	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.28	PASS
Band38	10MHz	QPSK	38200	1RB#49	21.24	PASS
Band38	10MHz	QPSK	38200	25RB#0	20.37	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.40	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.42	PASS
Band38	10MHz	QPSK	38200	50RB#0	20.01	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.90	PASS

Band38	10MHz	16QAM	38200	1RB#24	21.93	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.83	PASS
Band38	10MHz	16QAM	38200	25RB#0	19.64	PASS
Band38	10MHz	16QAM	38200	25RB#12	19.65	PASS
Band38	10MHz	16QAM	38200	25RB#25	19.67	PASS
Band38	10MHz	16QAM	38200	50RB#0	19.27	PASS
Band38	15MHz	QPSK	37825	1RB#0	21.45	PASS
Band38	15MHz	QPSK	37825	1RB#38	21.36	PASS
Band38	15MHz	QPSK	37825	1RB#74	21.25	PASS
Band38	15MHz	QPSK	37825	38RB#0	20.05	PASS
Band38	15MHz	QPSK	37825	38RB#18	20.06	PASS
Band38	15MHz	QPSK	37825	38RB#37	20.06	PASS
Band38	15MHz	QPSK	37825	75RB#0	20.06	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.49	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.34	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.25	PASS
Band38	15MHz	16QAM	37825	38RB#0	20.06	PASS
Band38	15MHz	16QAM	37825	38RB#18	20.06	PASS
Band38	15MHz	16QAM	37825	38RB#37	20.06	PASS
Band38	15MHz	16QAM	37825	75RB#0	19.21	PASS
Band38	15MHz	QPSK	38000	1RB#0	21.44	PASS
Band38	15MHz	QPSK	38000	1RB#38	21.29	PASS
Band38	15MHz	QPSK	38000	1RB#74	21.24	PASS
Band38	15MHz	QPSK	38000	38RB#0	20.13	PASS
Band38	15MHz	QPSK	38000	38RB#18	20.15	PASS
Band38	15MHz	QPSK	38000	38RB#37	20.15	PASS
Band38	15MHz	QPSK	38000	75RB#0	20.15	PASS
Band38	15MHz	16QAM	38000	1RB#0	20.90	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.88	PASS
Band38	15MHz	16QAM	38000	1RB#74	20.72	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.14	PASS
Band38	15MHz	16QAM	38000	38RB#18	20.15	PASS
Band38	15MHz	16QAM	38000	38RB#37	20.15	PASS
Band38	15MHz	16QAM	38000	75RB#0	19.31	PASS
Band38	15MHz	QPSK	38175	1RB#0	21.24	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.32	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.20	PASS
Band38	15MHz	QPSK	38175	38RB#0	20.00	PASS
Band38	15MHz	QPSK	38175	38RB#18	20.02	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.03	PASS
Band38	15MHz	QPSK	38175	75RB#0	20.03	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.96	PASS

Band38	15MHz	16QAM	38175	1RB#38	21.92	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.84	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.02	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.03	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.03	PASS
Band38	15MHz	16QAM	38175	75RB#0	19.16	PASS
Band38	20MHz	QPSK	37850	1RB#0	21.31	PASS
Band38	20MHz	QPSK	37850	1RB#49	21.24	PASS
Band38	20MHz	QPSK	37850	1RB#99	21.08	PASS
Band38	20MHz	QPSK	37850	50RB#0	20.48	PASS
Band38	20MHz	QPSK	37850	50RB#25	20.48	PASS
Band38	20MHz	QPSK	37850	50RB#50	20.40	PASS
Band38	20MHz	QPSK	37850	100RB#0	20.12	PASS
Band38	20MHz	16QAM	37850	1RB#0	20.72	PASS
Band38	20MHz	16QAM	37850	1RB#49	20.68	PASS
Band38	20MHz	16QAM	37850	1RB#99	20.54	PASS
Band38	20MHz	16QAM	37850	50RB#0	19.61	PASS
Band38	20MHz	16QAM	37850	50RB#25	19.61	PASS
Band38	20MHz	16QAM	37850	50RB#50	19.53	PASS
Band38	20MHz	16QAM	37850	100RB#0	19.60	PASS
Band38	20MHz	QPSK	38000	1RB#0	21.03	PASS
Band38	20MHz	QPSK	38000	1RB#49	20.86	PASS
Band38	20MHz	QPSK	38000	1RB#99	20.94	PASS
Band38	20MHz	QPSK	38000	50RB#0	20.52	PASS
Band38	20MHz	QPSK	38000	50RB#25	20.53	PASS
Band38	20MHz	QPSK	38000	50RB#50	20.38	PASS
Band38	20MHz	QPSK	38000	100RB#0	20.12	PASS
Band38	20MHz	16QAM	38000	1RB#0	20.77	PASS
Band38	20MHz	16QAM	38000	1RB#49	20.69	PASS
Band38	20MHz	16QAM	38000	1RB#99	20.61	PASS
Band38	20MHz	16QAM	38000	50RB#0	19.69	PASS
Band38	20MHz	16QAM	38000	50RB#25	19.69	PASS
Band38	20MHz	16QAM	38000	50RB#50	19.62	PASS
Band38	20MHz	16QAM	38000	100RB#0	19.59	PASS
Band38	20MHz	QPSK	38150	1RB#0	21.23	PASS
Band38	20MHz	QPSK	38150	1RB#49	21.06	PASS
Band38	20MHz	QPSK	38150	1RB#99	20.94	PASS
Band38	20MHz	QPSK	38150	50RB#0	20.54	PASS
Band38	20MHz	QPSK	38150	50RB#25	20.40	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.43	PASS
Band38	20MHz	QPSK	38150	100RB#0	19.98	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.96	PASS

Band38	20MHz	16QAM	38150	1RB#49	21.38	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.20	PASS
Band38	20MHz	16QAM	38150	50RB#0	19.58	PASS
Band38	20MHz	16QAM	38150	50RB#25	19.59	PASS
Band38	20MHz	16QAM	38150	50RB#50	19.47	PASS
Band38	20MHz	16QAM	38150	100RB#0	19.53	PASS

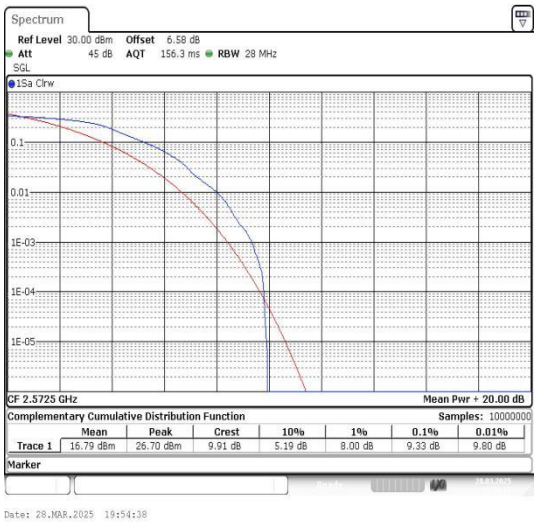
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	9.33	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.28	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.57	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.91	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	9.16	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.28	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.07	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.86	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	9.33	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.16	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	9.51	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.86	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	9.22	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.22	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.57	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.91	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	9.22	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.25	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.77	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.94	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	9.13	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.22	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	9.45	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.94	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	9.19	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.54	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.57	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	10.12	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	9.19	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.54	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.83	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	10.09	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	9.13	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.48	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.48	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	10.06	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.70	13	PASS

Band38	20MHz	QPSK	37850	100RB#0	9.16	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	9.28	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.88	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	9.01	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.19	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.45	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.91	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.67	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.13	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.42	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.88	13	PASS

Test Graphs

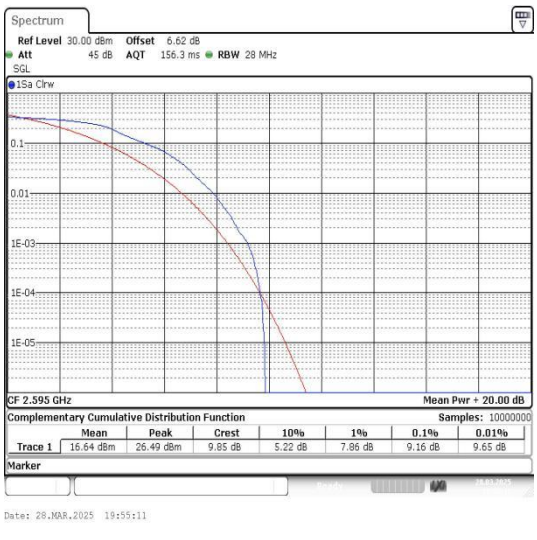


Band38-5MHz-QPSK-37775-1RB#0-PASS

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

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

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



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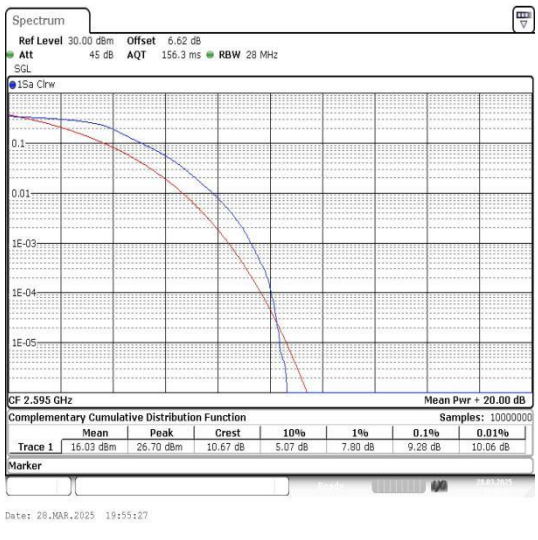

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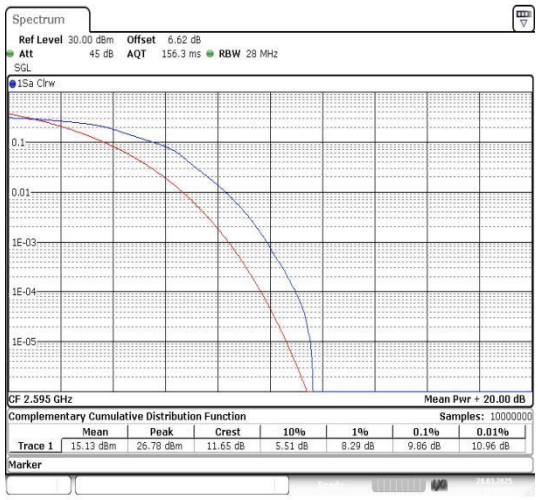
Band38-5MHz-16QAM-38000-1RB#0-PASS



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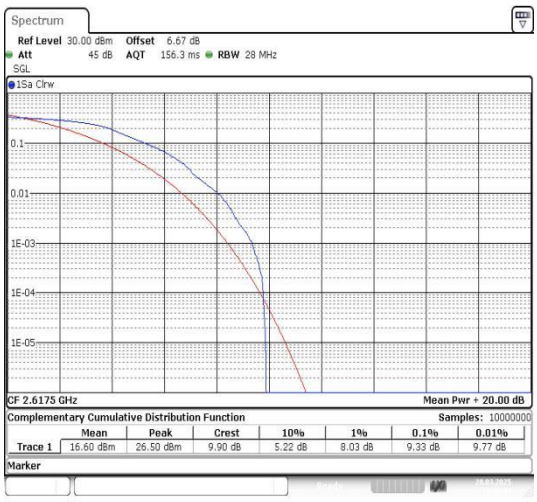

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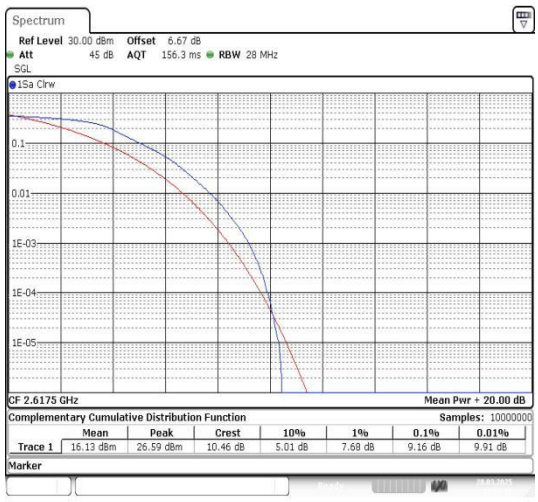
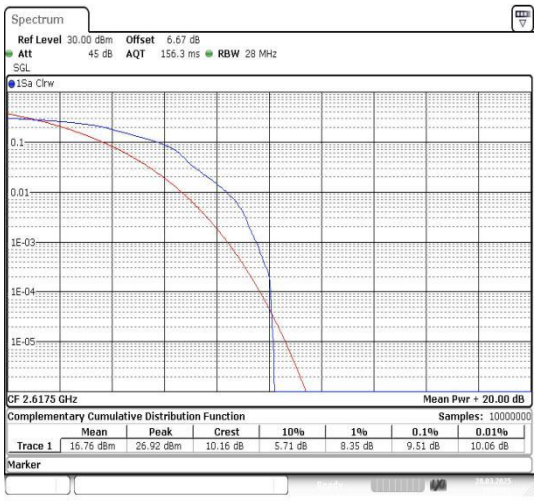
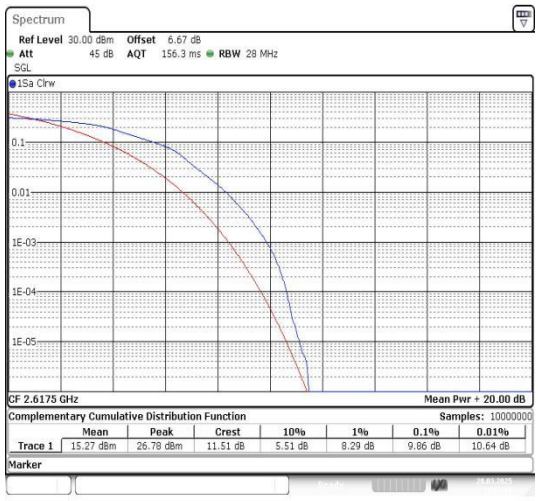


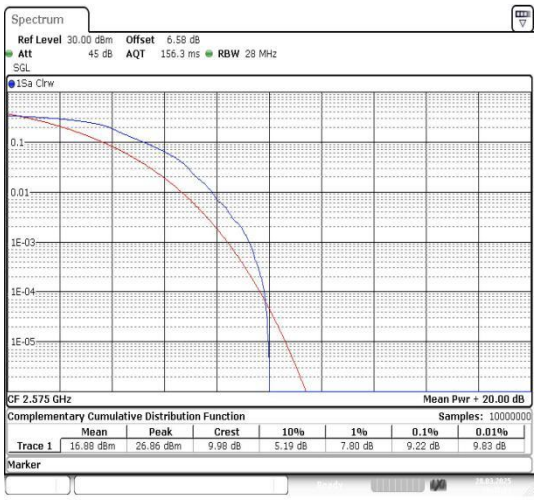
Band38-5MHz-QPSK-38225-25RB#0-PASS



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



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



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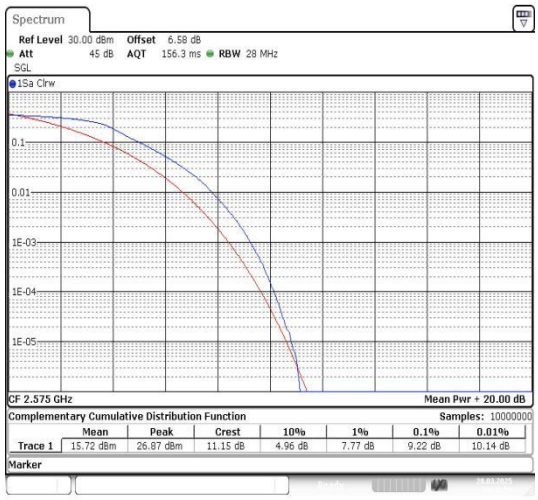

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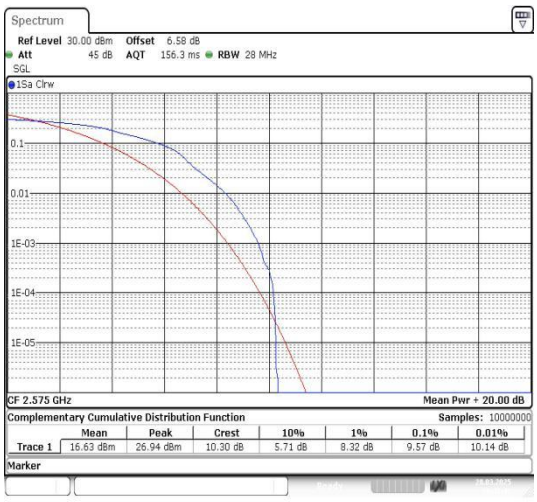

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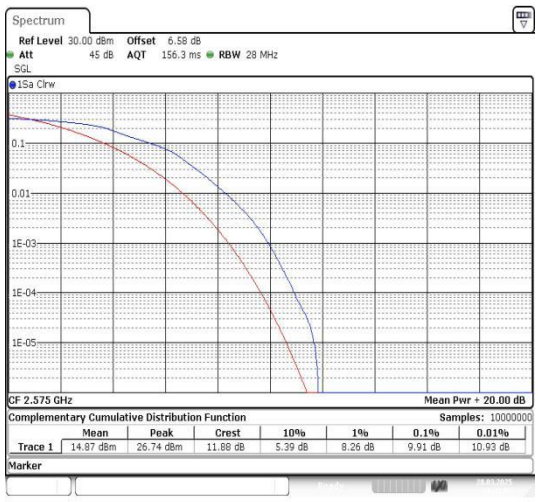
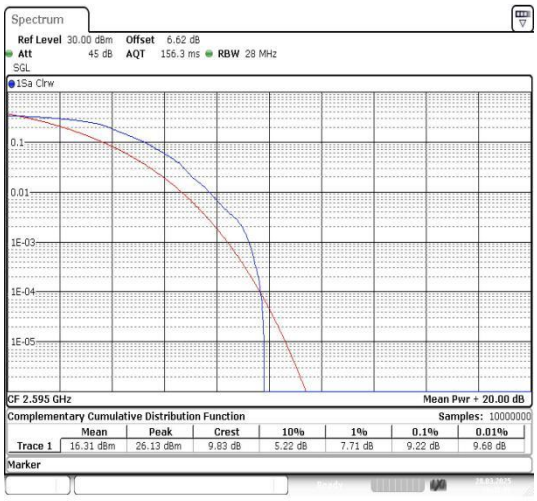
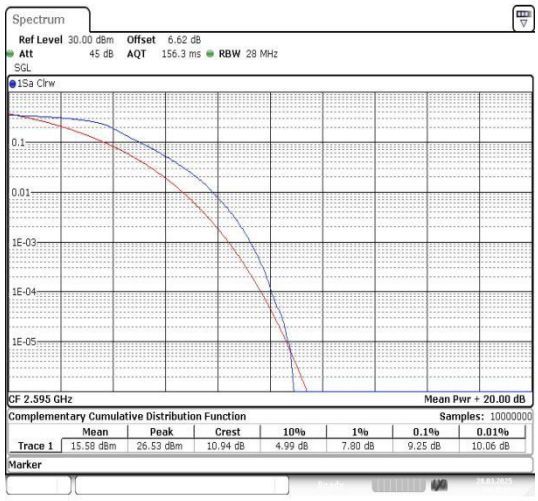


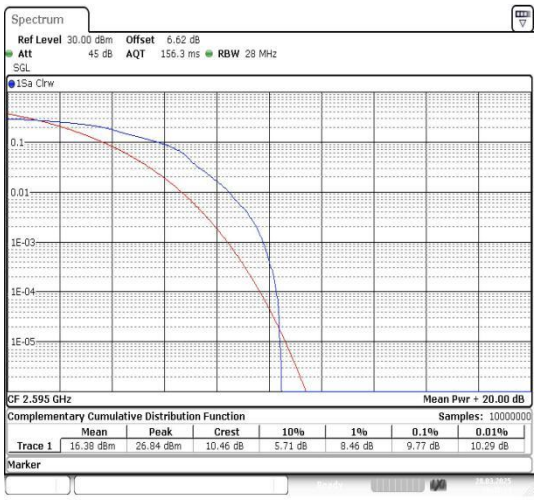
Band38-10MHz-16QAM-37800-50RB#0-PASS



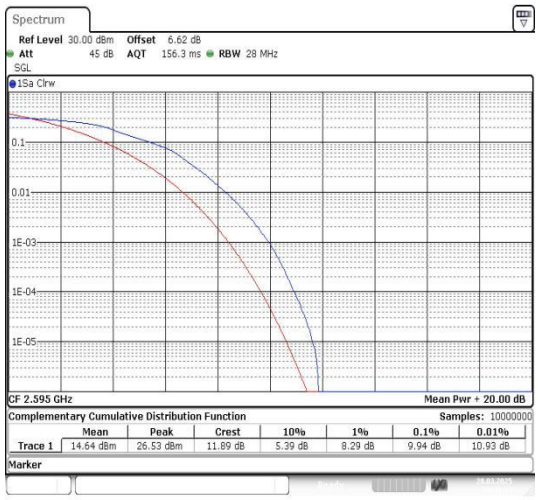
Band38-10MHz-QPSK-38000-1RB#0-PASS



Band38-10MHz-QPSK-38000-50RB#0-PASS



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



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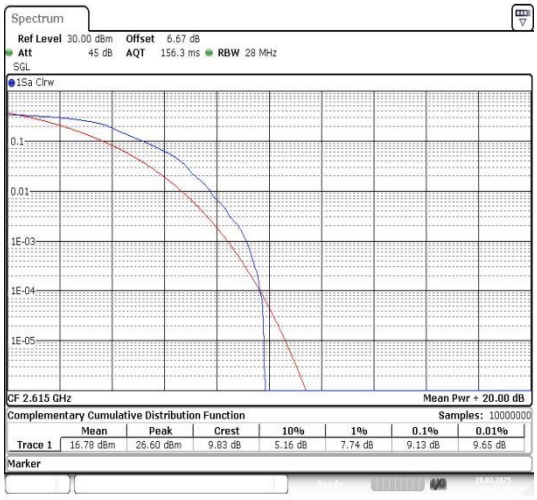

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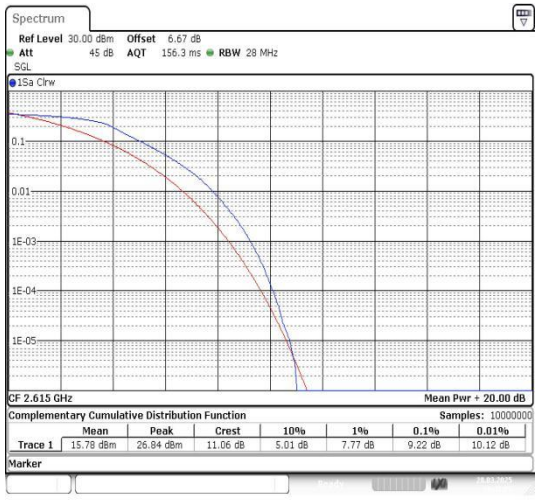

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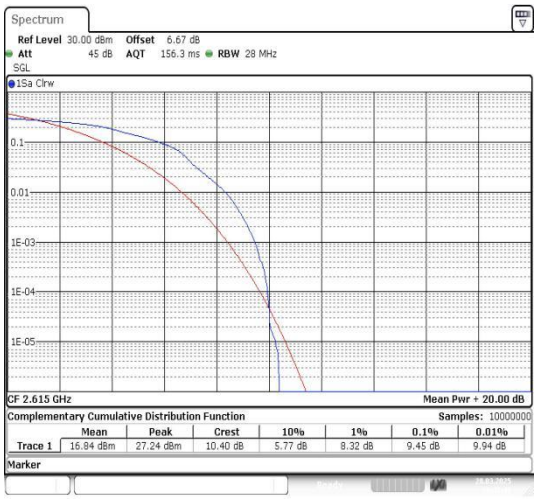

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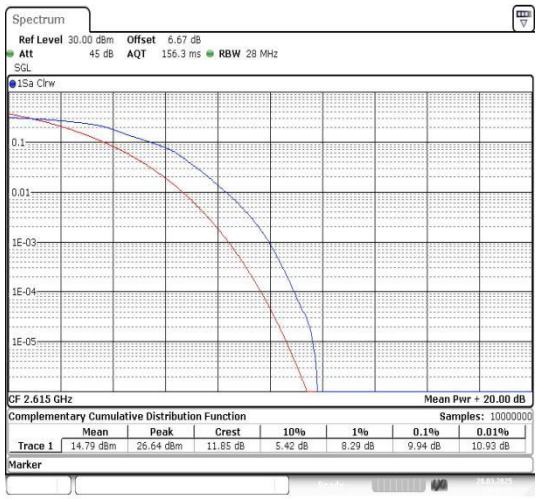

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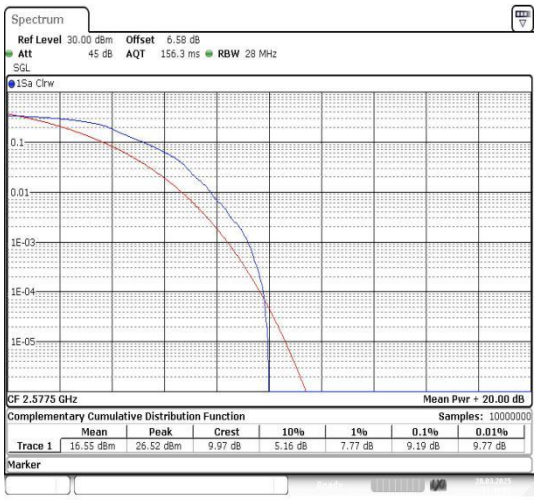

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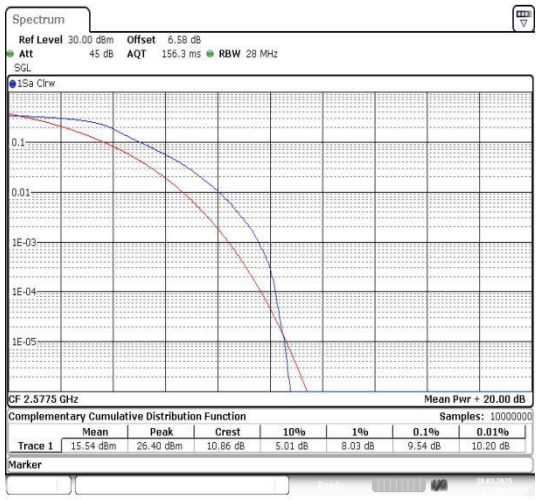

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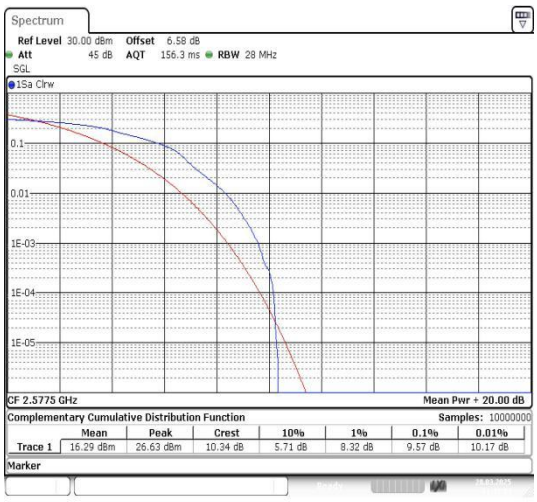

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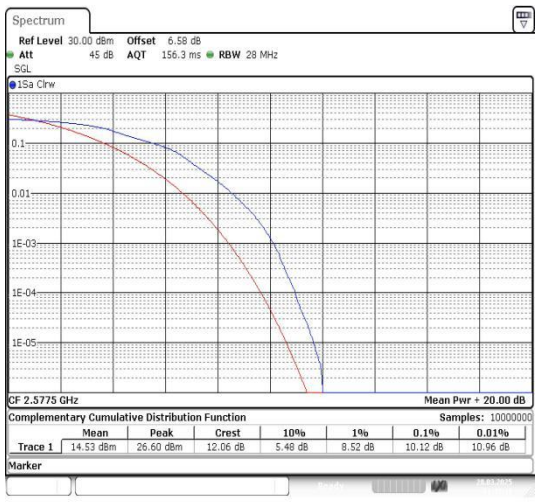

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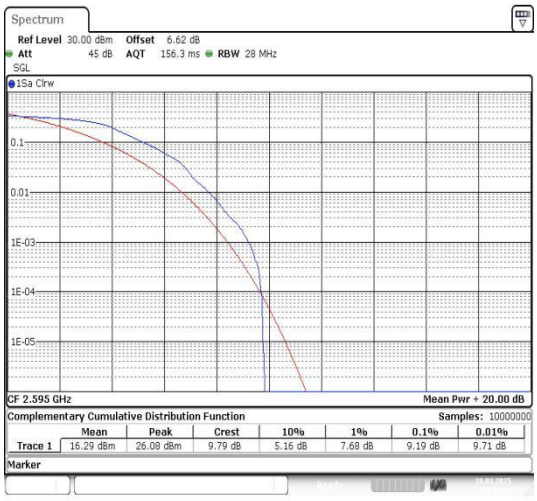

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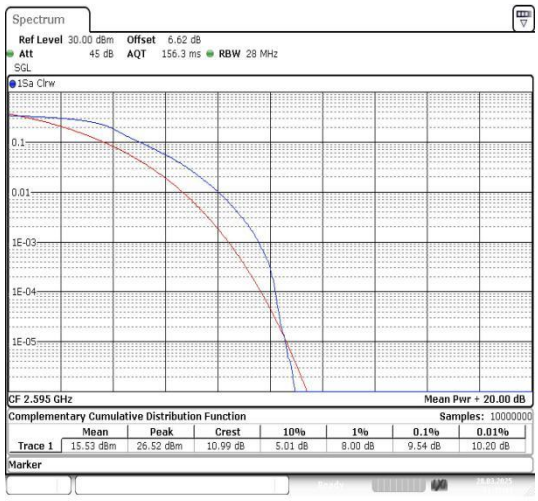

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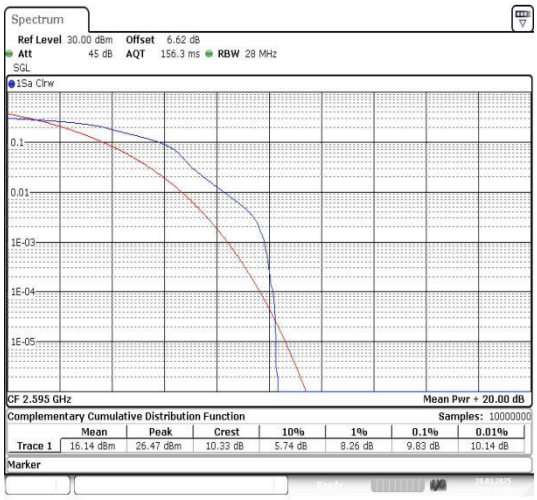

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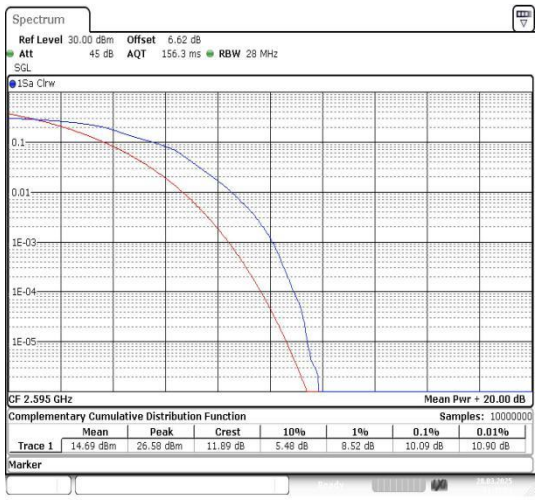

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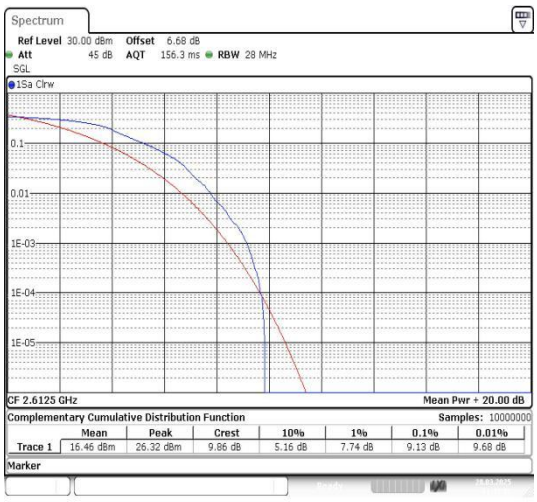
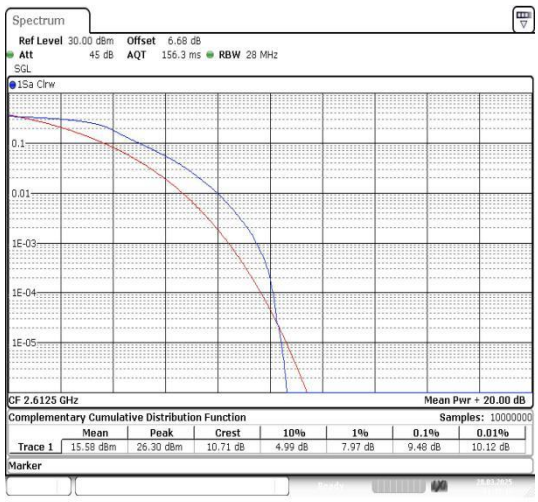


Band38-15MHz-QPSK-38175-1RB#0-PASS



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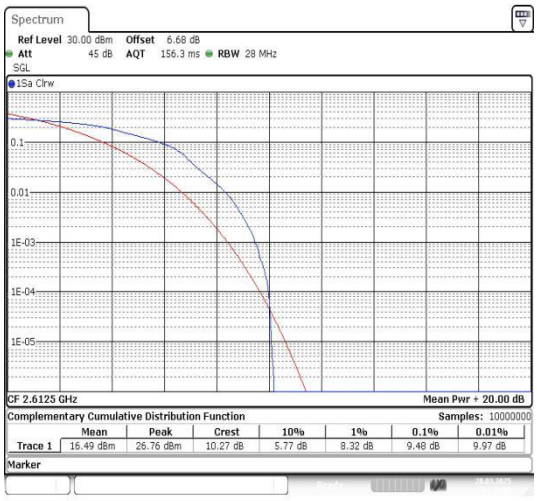

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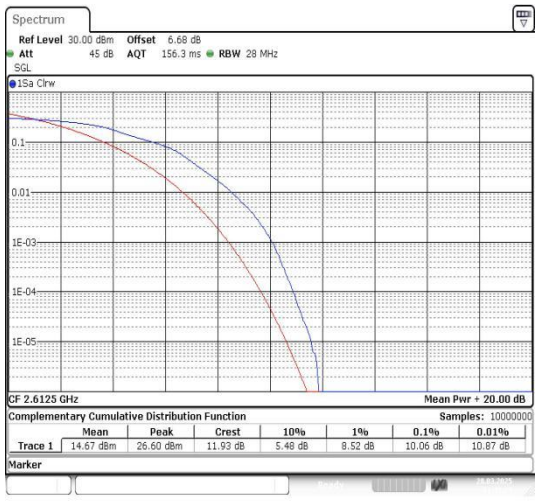

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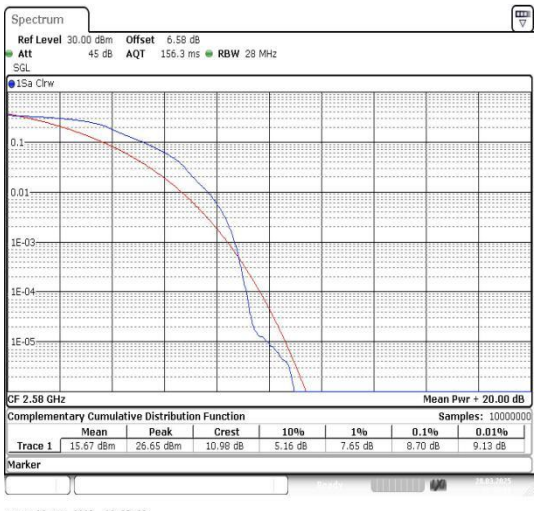
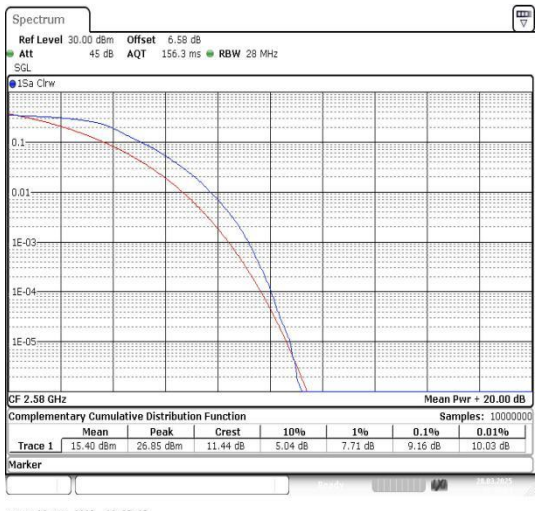


Band38-20MHz-QPSK-37850-1RB#0-PASS



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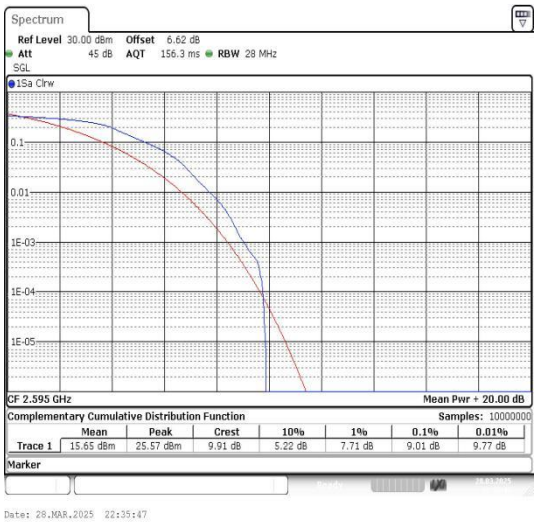
Band38-20MHz-16QAM-37850-1RB#0-PASS

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



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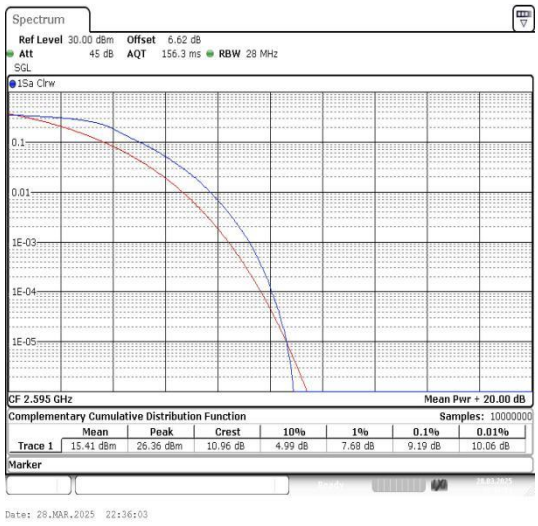

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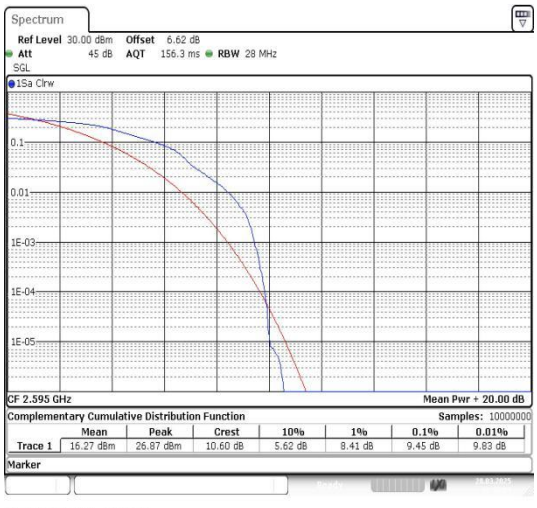

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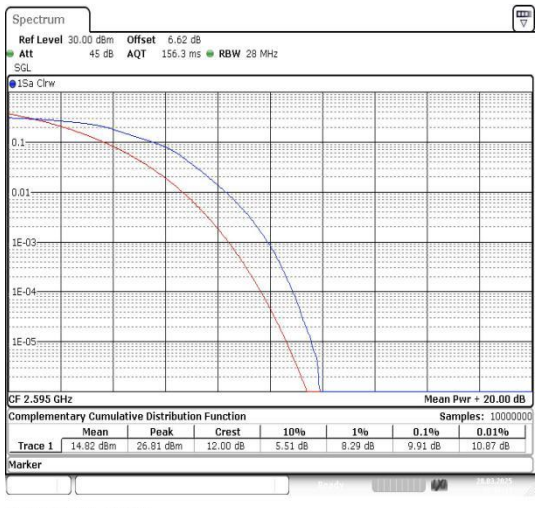
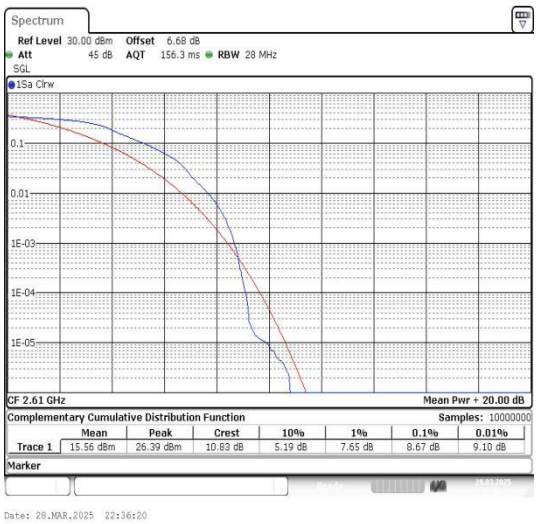
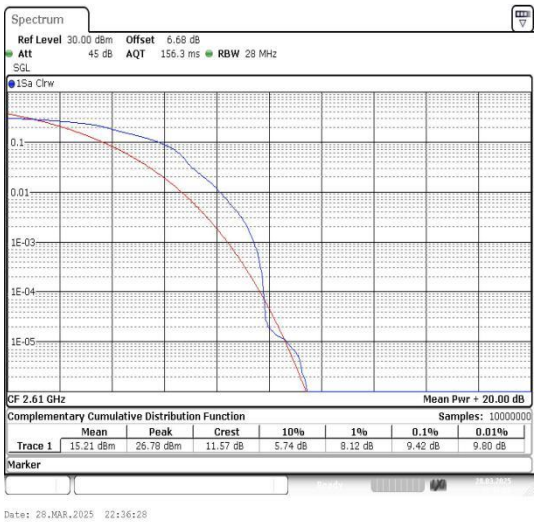


Band38-20MHz-16QAM-38000-100RB#0-PASS



Band38-20MHz-QPSK-38150-1RB#0-PASS

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



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

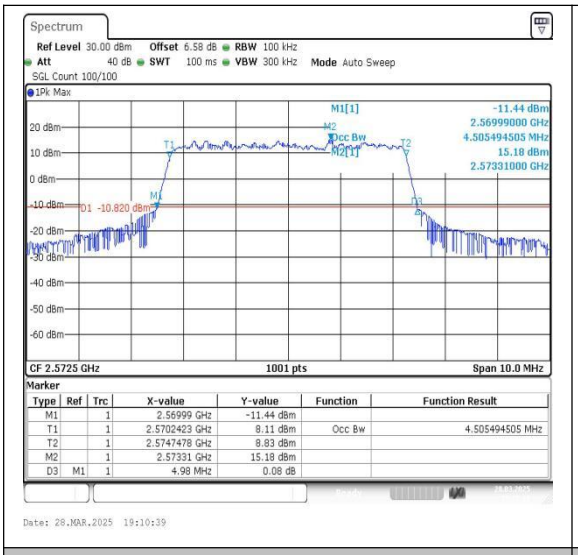
Band38-20MHz-16QAM-38150-100RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

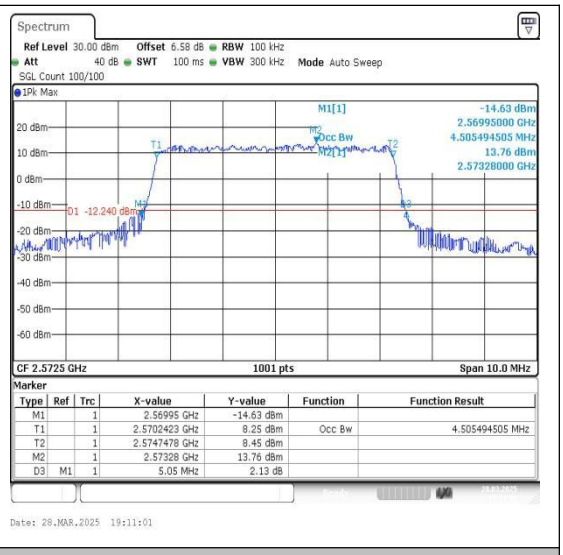
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.505	4.98	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.505	5.05	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.496	5.10	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.486	4.97	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.505	5.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.505	5.03	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.952	9.97	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.985	9.90	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.985	10.17	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.018	11.03	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.985	9.97	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.985	10.13	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	15.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	15.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.478	15.50	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.527	15.50	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	15.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.527	15.95	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.037	20.27	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.97	20.60	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.103	20.07	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.037	20.07	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.103	20.13	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.037	20.73	PASS

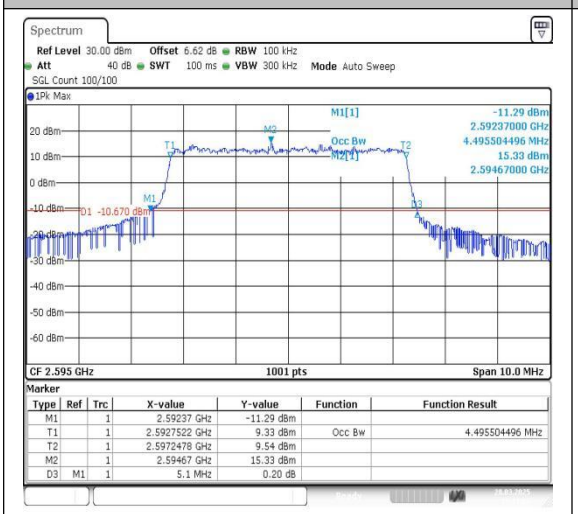
Test Graphs



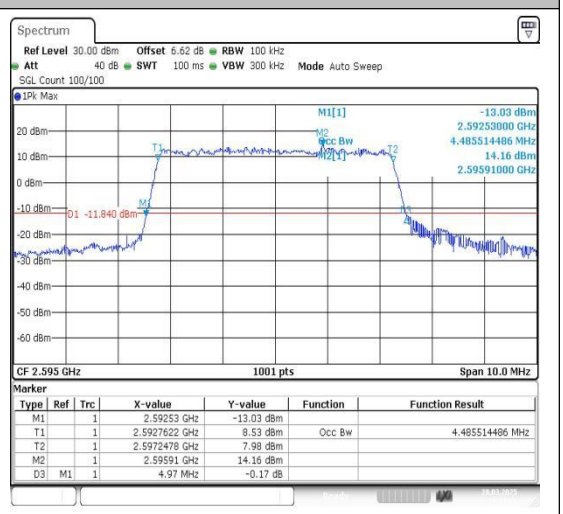
Band38-5MHz-QPSK-37775-25RB#0-PASS



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



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



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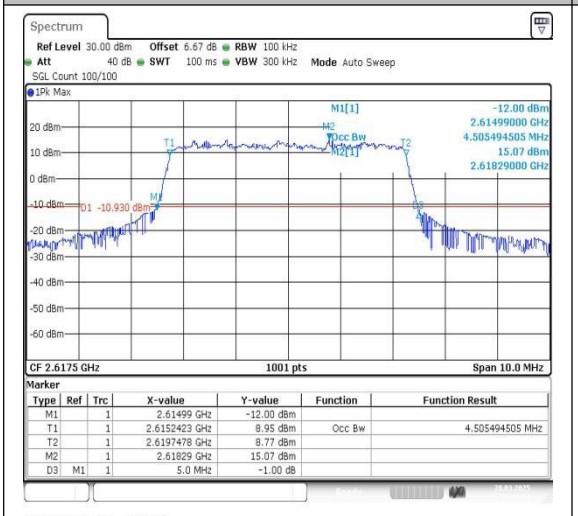

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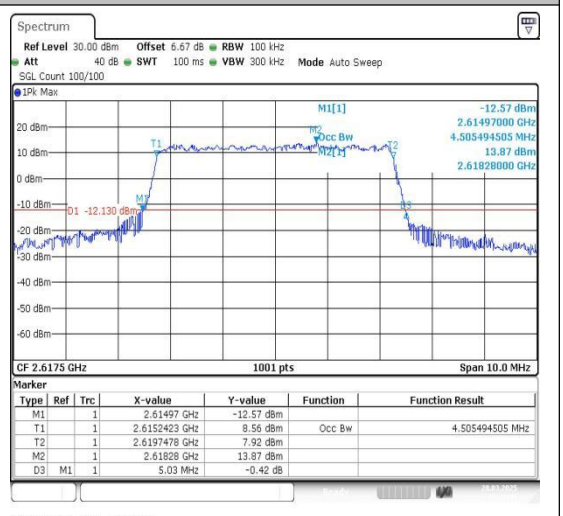
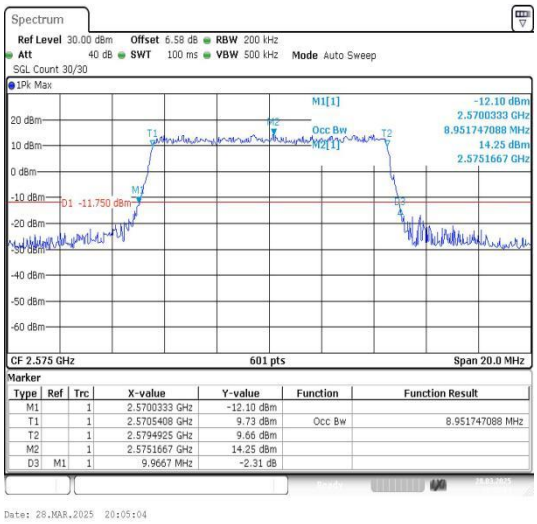
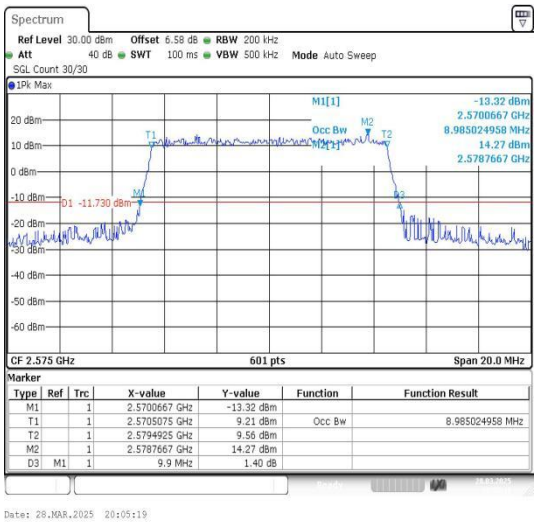


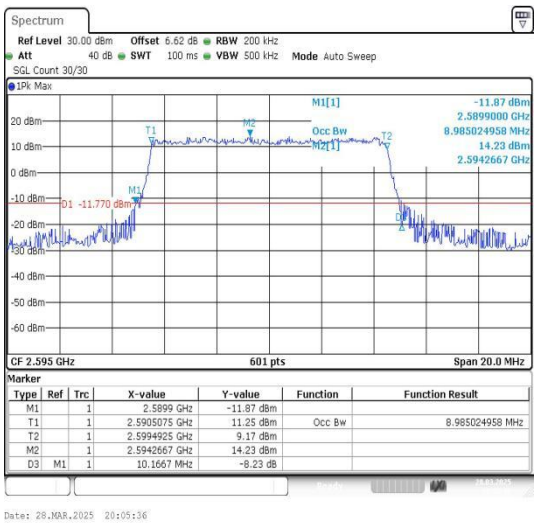
Band38-5MHz-QPSK-38225-25RB#0-PASS



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



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



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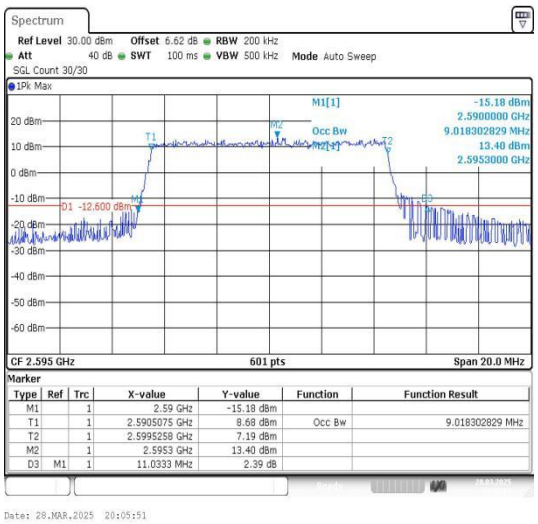

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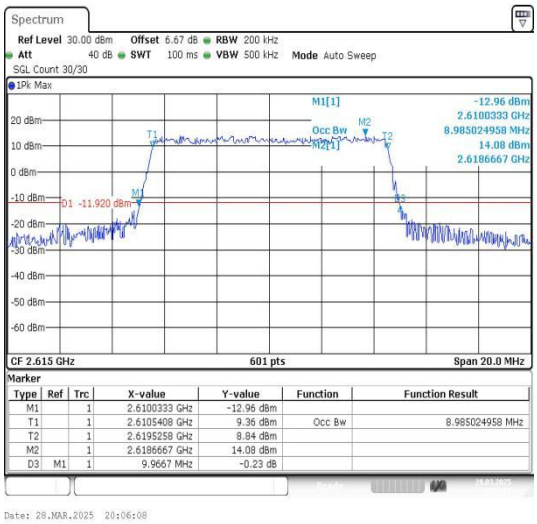

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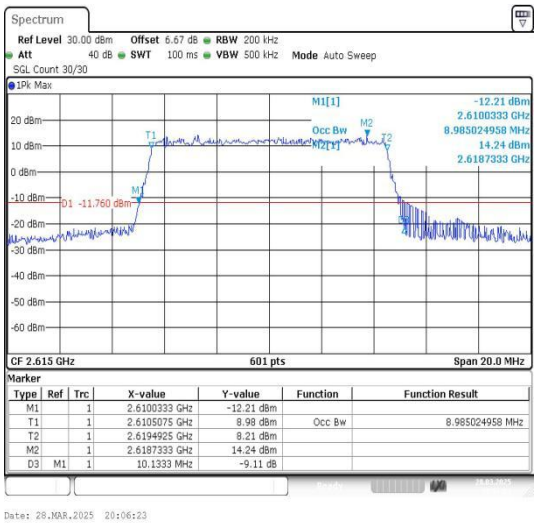
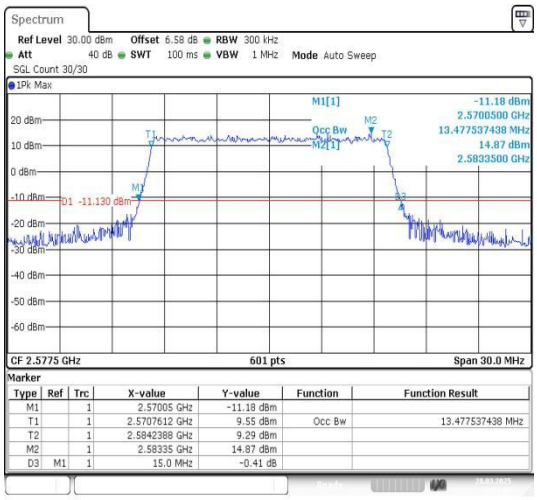
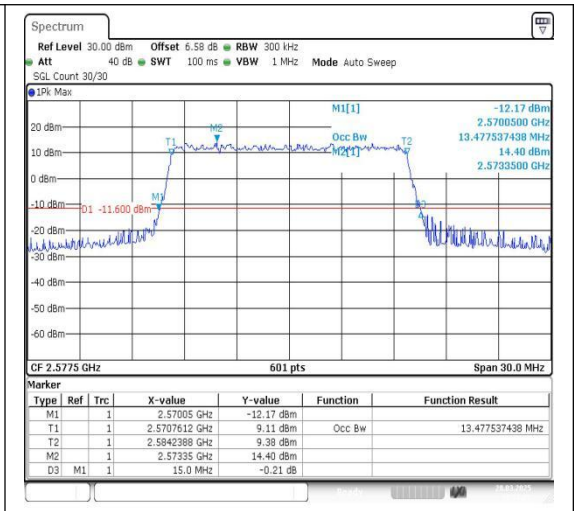


Band38-10MHz-QPSK-38200-50RB#0-PASS

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



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



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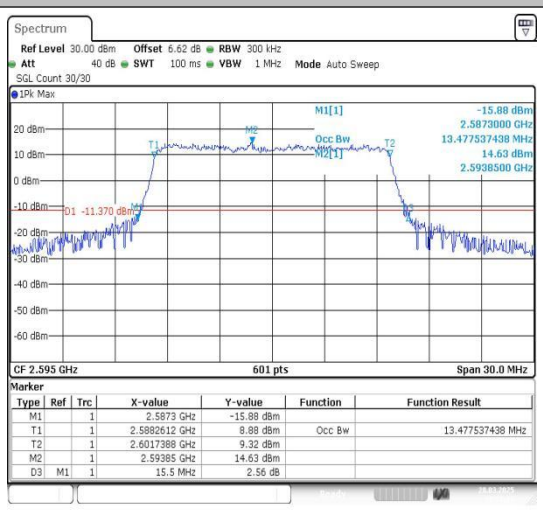

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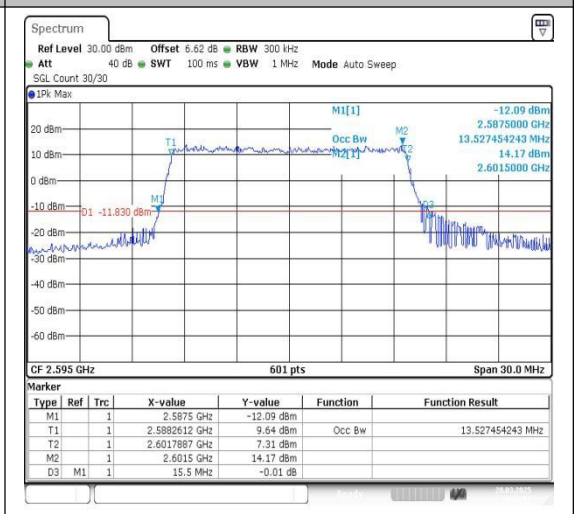

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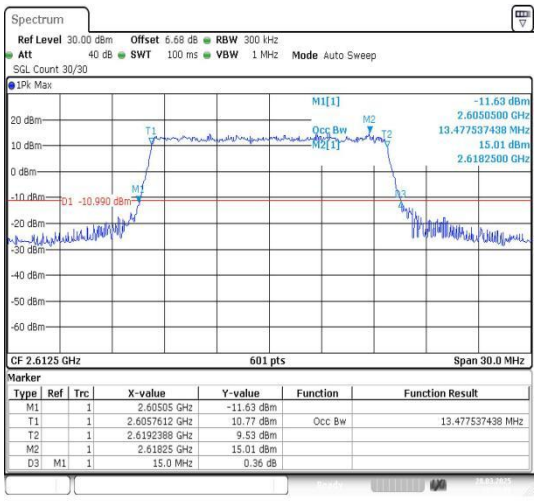

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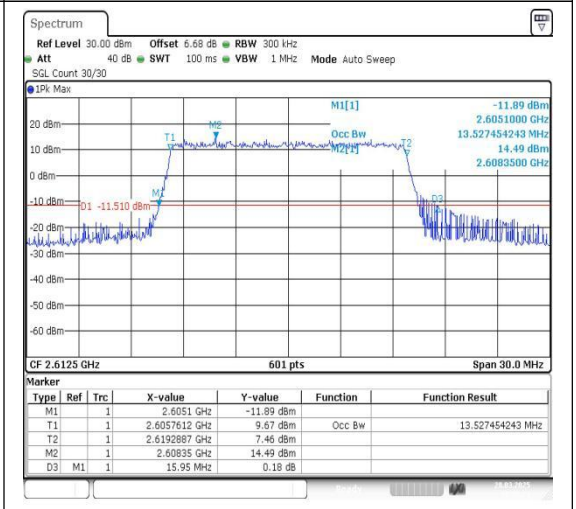

Band38-15MHz-16QAM-38175-75RB#0-PASS