

Appendix for LTE Band 38

Product Name: Rugged Android Tablet

Model No: UA80

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.39	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.89	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.46	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.83	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.21	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.94	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.89	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.90	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.01	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.02	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.97	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.99	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.03	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.18	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.78	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.06	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.64	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.04	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.58	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.24	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.29	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.21	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.28	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.20	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.18	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.20	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.15	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.41	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.89	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.32	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.75	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.22	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.67	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.36	PASS

Band38	5MHz	16QAM	38225	12RB#0	21.32	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.33	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.38	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.23	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.27	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.31	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.31	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.35	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.68	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.90	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.24	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.31	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.68	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.06	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.18	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.17	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.18	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.06	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.09	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.02	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.98	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.62	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.37	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.27	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.23	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.48	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.53	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.28	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.32	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.29	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.30	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.41	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.40	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.42	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.37	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.56	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.98	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.10	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.38	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.43	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.75	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.26	PASS

Band38	10MHz	16QAM	38200	25RB#0	21.28	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.27	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.29	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.24	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.25	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.20	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.26	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.44	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.71	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.93	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.32	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.31	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.64	PASS
Band38	15MHz	QPSK	37825	38RB#0	22.05	PASS
Band38	15MHz	16QAM	37825	38RB#0	22.02	PASS
Band38	15MHz	QPSK	37825	38RB#18	22.04	PASS
Band38	15MHz	16QAM	37825	38RB#18	22.03	PASS
Band38	15MHz	QPSK	37825	38RB#37	22.05	PASS
Band38	15MHz	16QAM	37825	38RB#37	22.02	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.03	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.01	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.31	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.70	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.18	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.18	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.58	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.53	PASS
Band38	15MHz	QPSK	38000	38RB#0	22.19	PASS
Band38	15MHz	16QAM	38000	38RB#0	22.17	PASS
Band38	15MHz	QPSK	38000	38RB#18	22.22	PASS
Band38	15MHz	16QAM	38000	38RB#18	22.22	PASS
Band38	15MHz	QPSK	38000	38RB#37	22.22	PASS
Band38	15MHz	16QAM	38000	38RB#37	22.09	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.14	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.24	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.39	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.79	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.12	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.46	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.45	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.69	PASS
Band38	15MHz	QPSK	38175	38RB#0	22.07	PASS

Band38	15MHz	16QAM	38175	38RB#0	22.08	PASS
Band38	15MHz	QPSK	38175	38RB#18	22.08	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.07	PASS
Band38	15MHz	QPSK	38175	38RB#37	22.07	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.07	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.07	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.14	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.71	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.54	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.10	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.26	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.49	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.67	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.03	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.13	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.04	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.08	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.15	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.22	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.18	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.13	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.33	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.89	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.06	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.61	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.38	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.00	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.00	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.02	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.99	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.09	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.15	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.13	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.07	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.14	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.37	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.45	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.06	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.27	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.43	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.57	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.08	PASS

Band38	20MHz	16QAM	38150	50RB#0	21.07	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.10	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.09	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.17	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.23	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.15	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.10	PASS

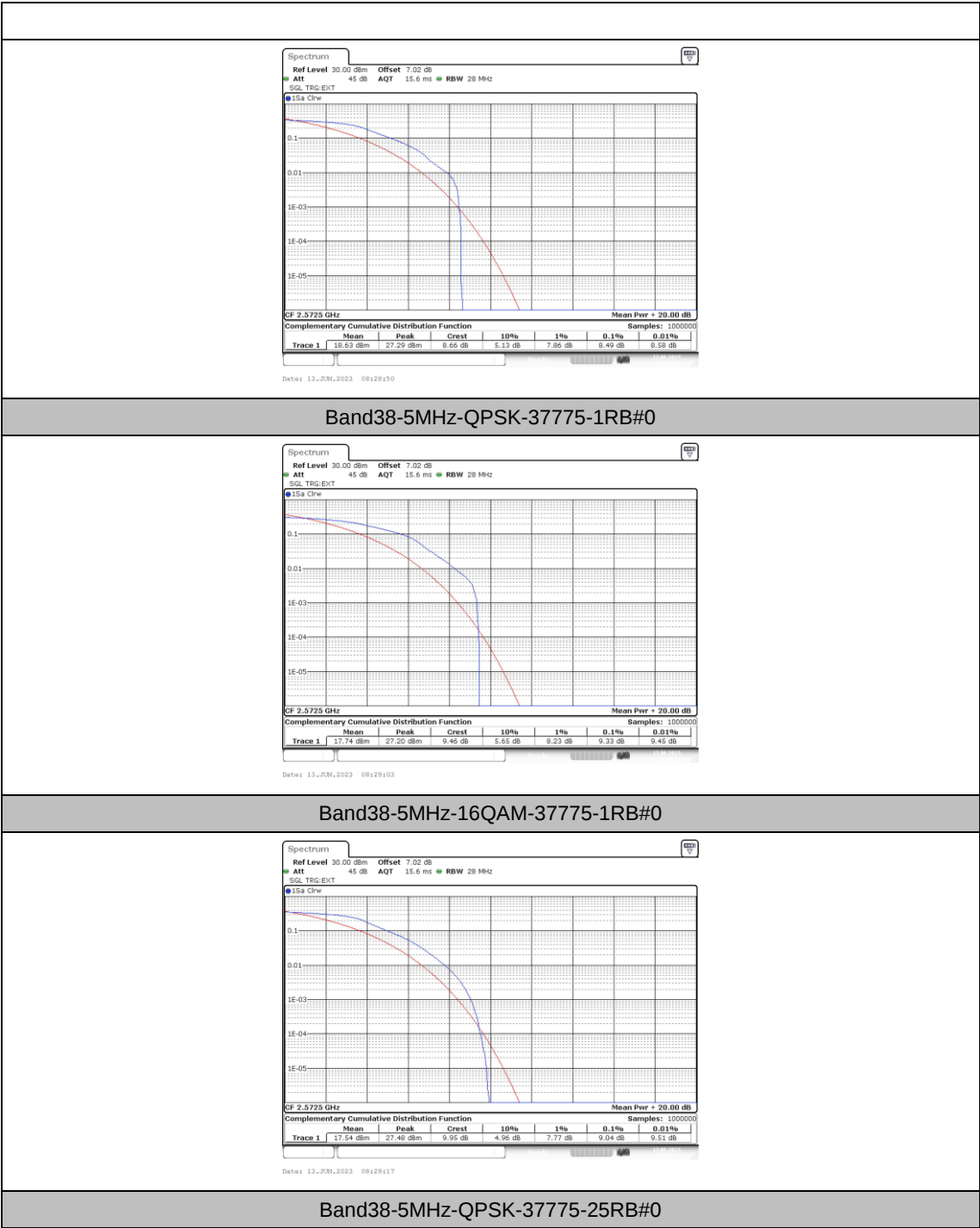
Appendix B: Peak-to-Average Ratio(CCDF)

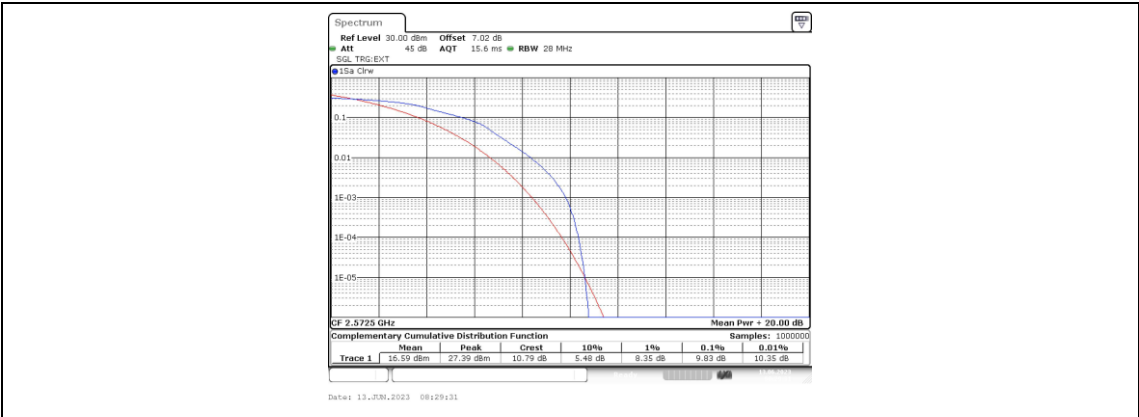
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.49	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.33	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.04	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.83	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.41	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.22	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	8.99	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.77	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.38	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	9.22	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.01	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.80	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.43	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.28	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.87	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.74	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.35	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.22	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.81	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.68	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.23	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	9.13	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.81	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.71	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.41	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.36	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.01	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.77	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.41	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.28	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	8.99	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.77	13	PASS
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Band38	15MHz	16QAM	38175	1RB#0	9.10	13	PASS

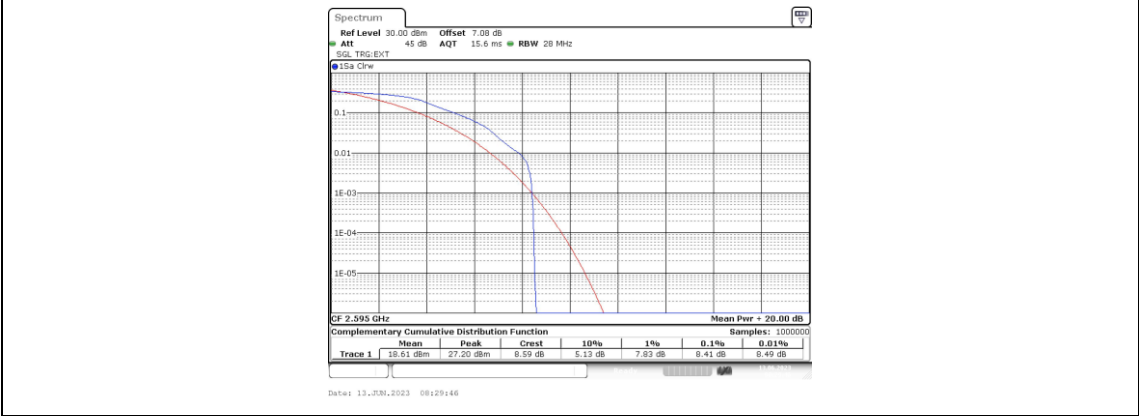
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Band38	15MHz	16QAM	38175	75RB#0	9.74	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.35	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	9.25	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	8.64	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.57	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.35	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.36	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.64	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.54	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.26	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.10	13	PASS
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Band38	20MHz	16QAM	38150	100RB#0	9.54	13	PASS

Test Graphs

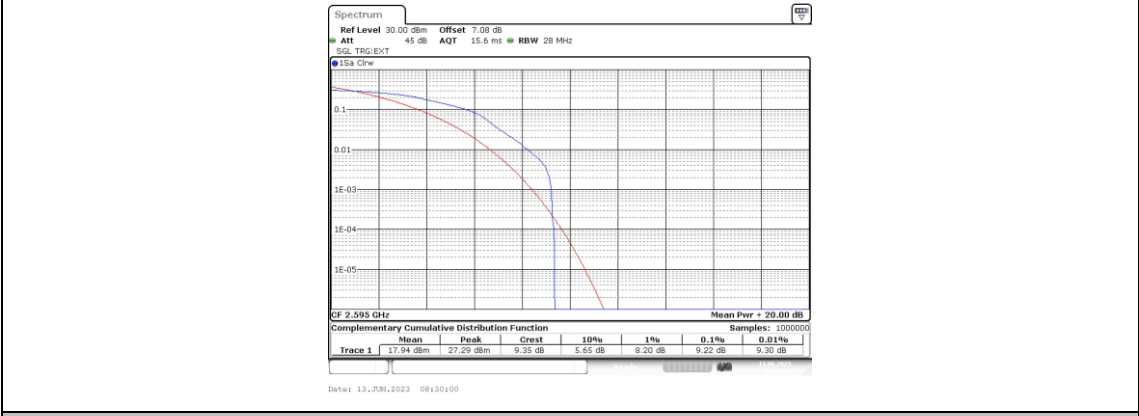




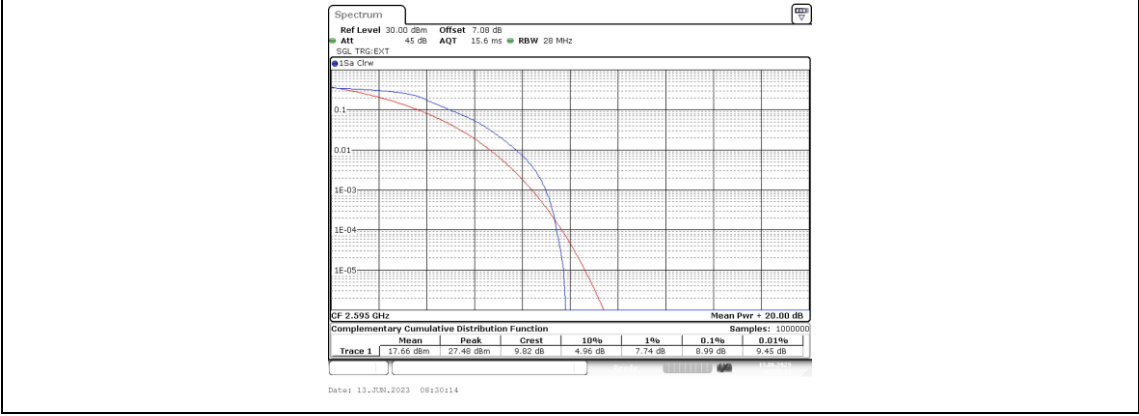
Band38-5MHz-16QAM-37775-25RB#0

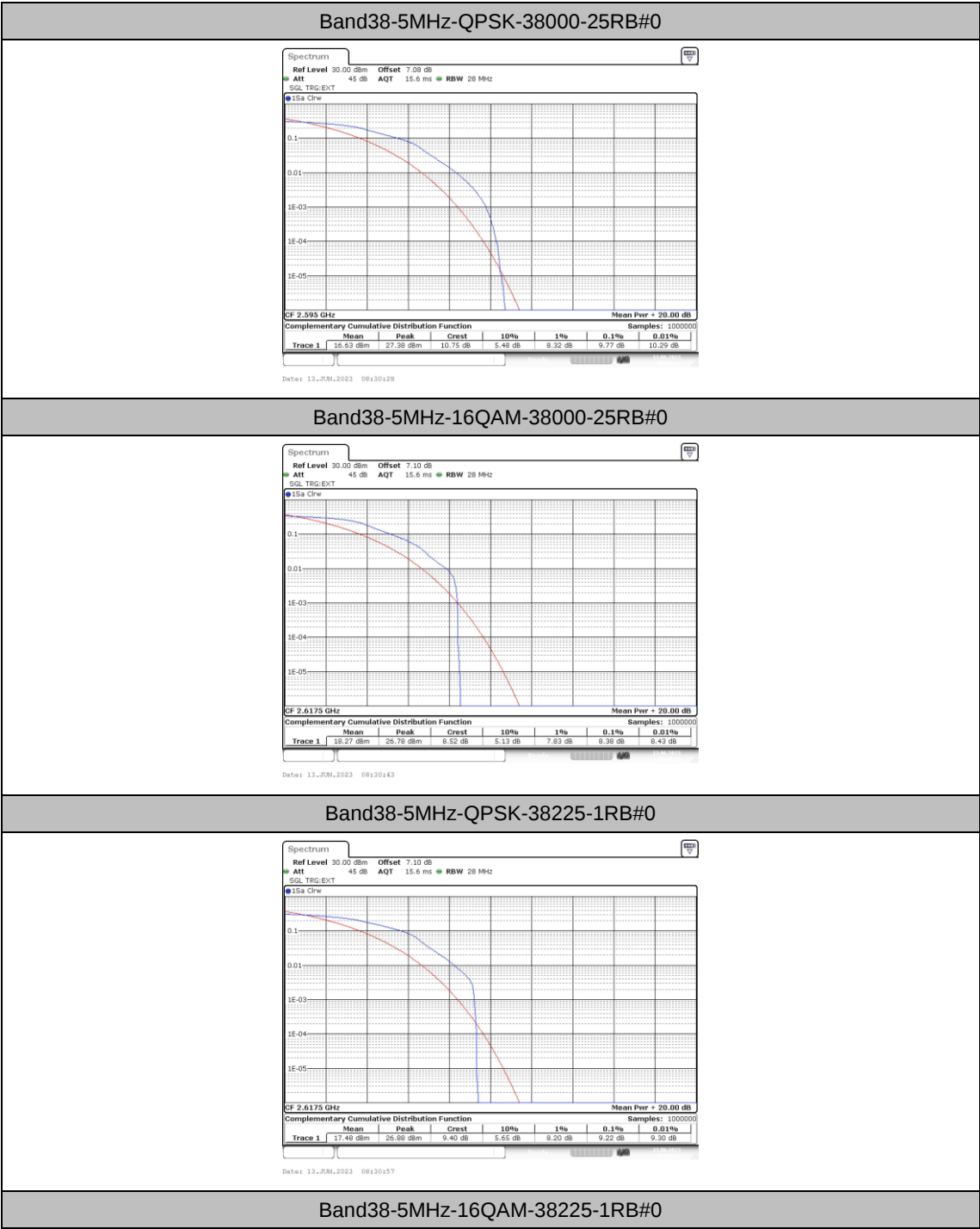


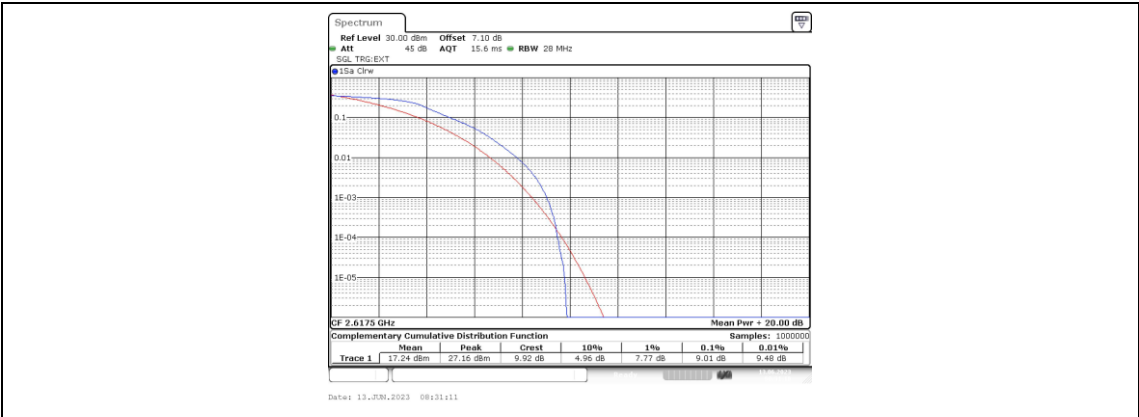
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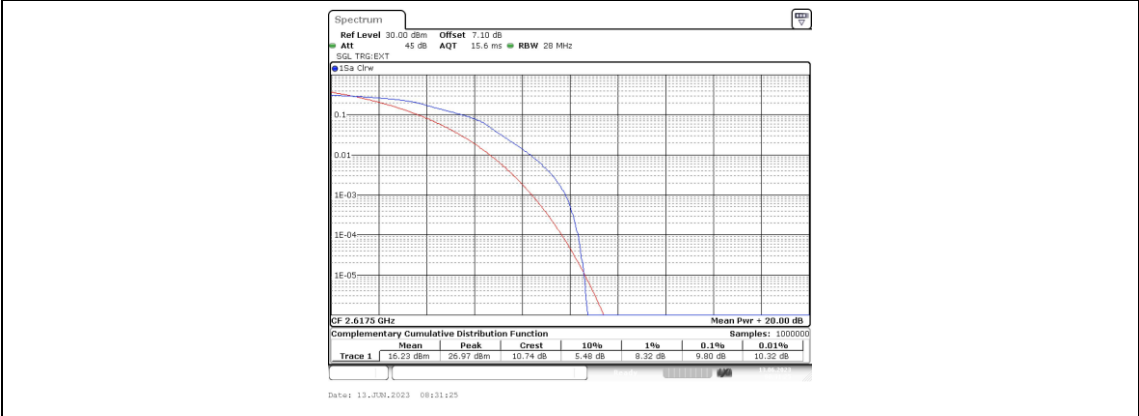
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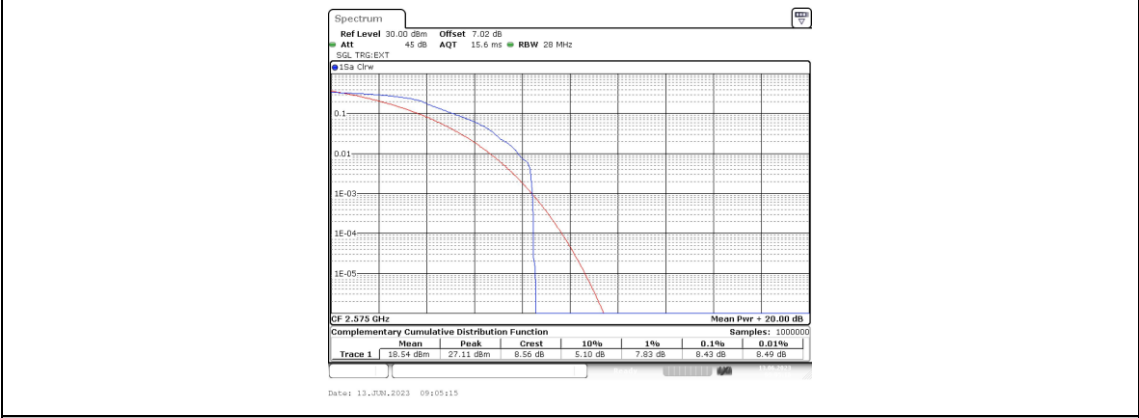




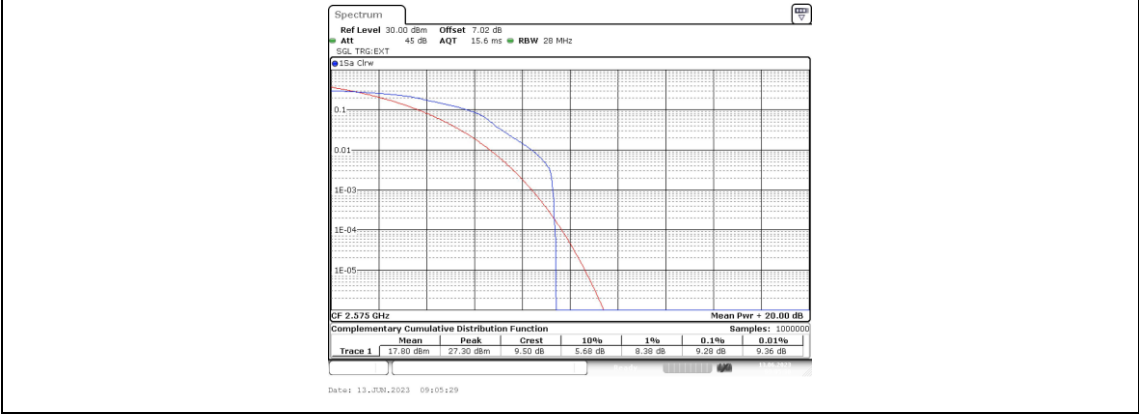
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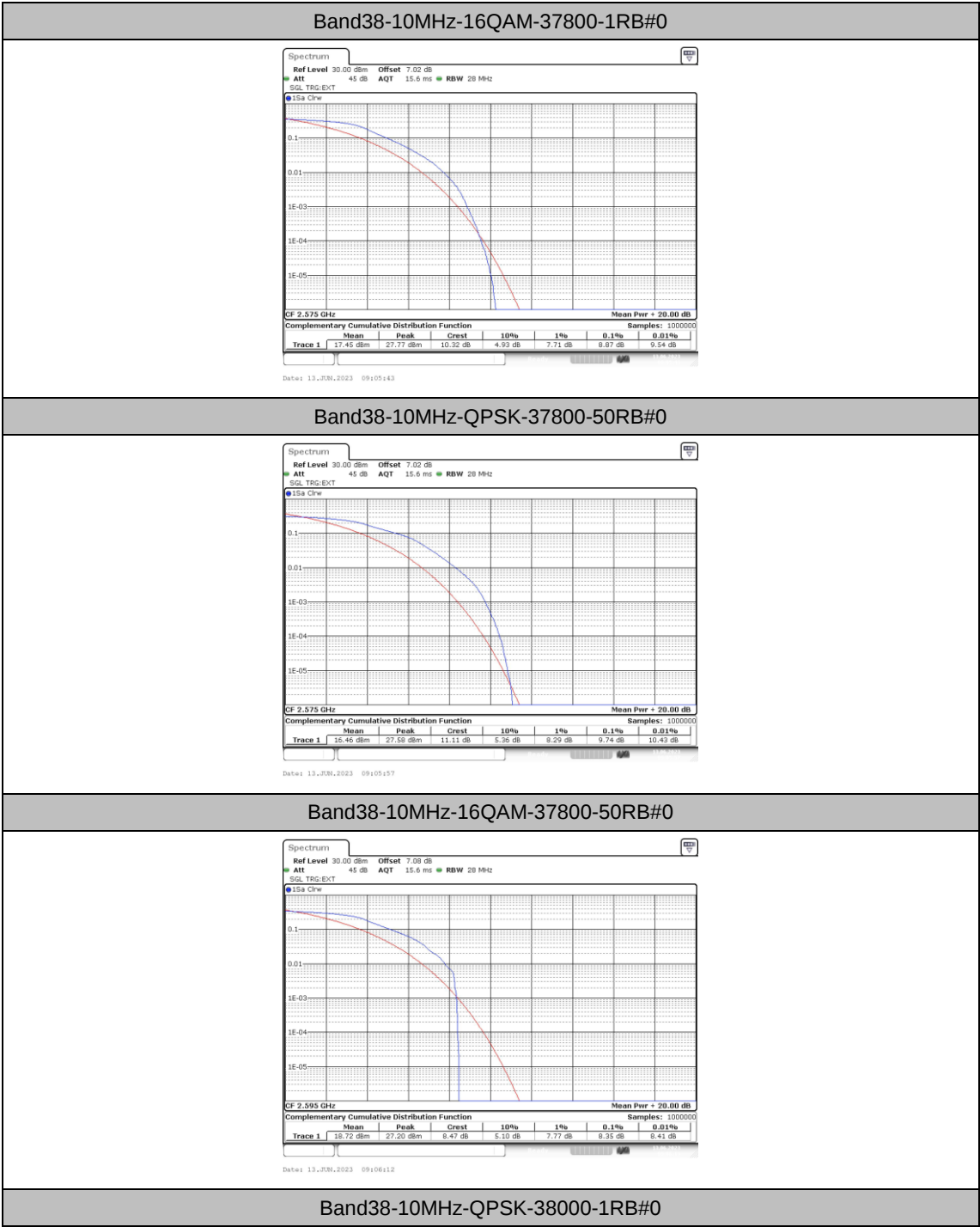


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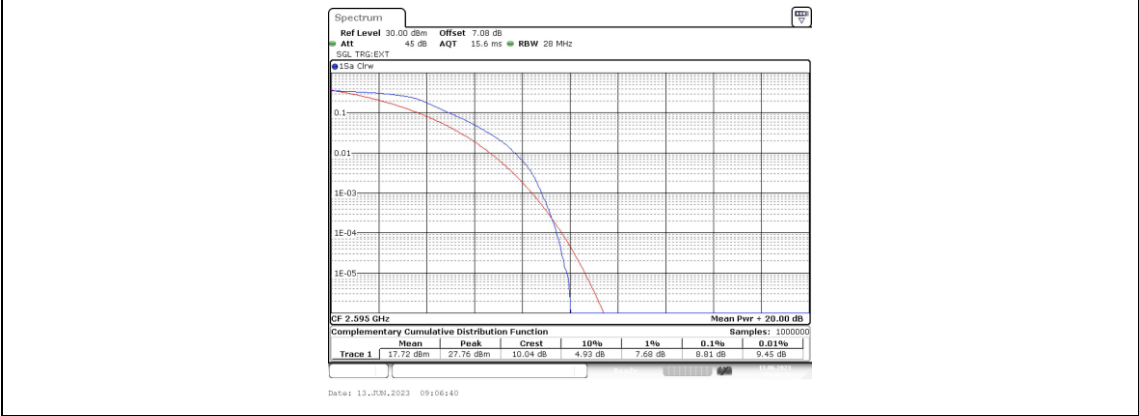
Band38-10MHz-QPSK-37800-1RB#0



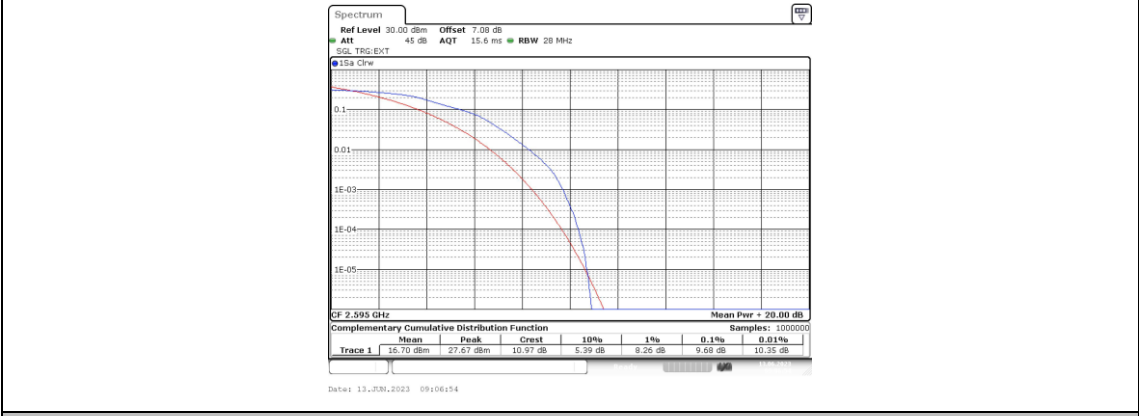




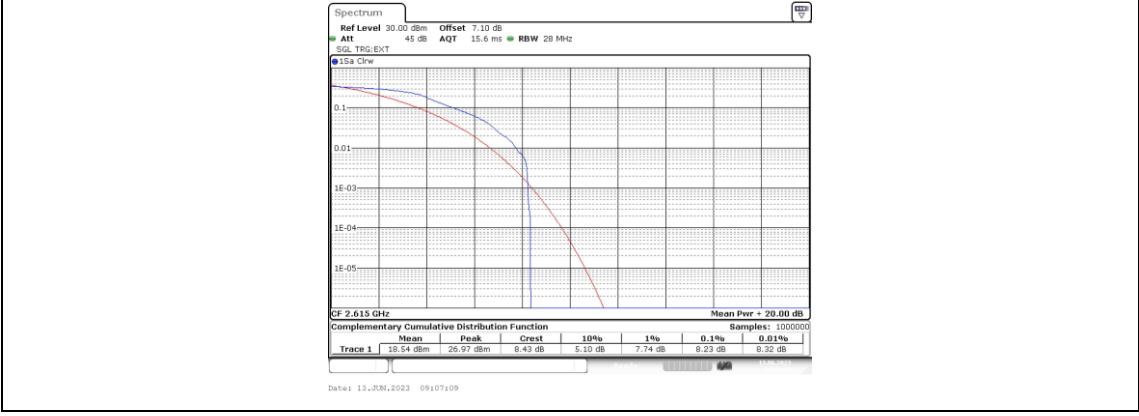
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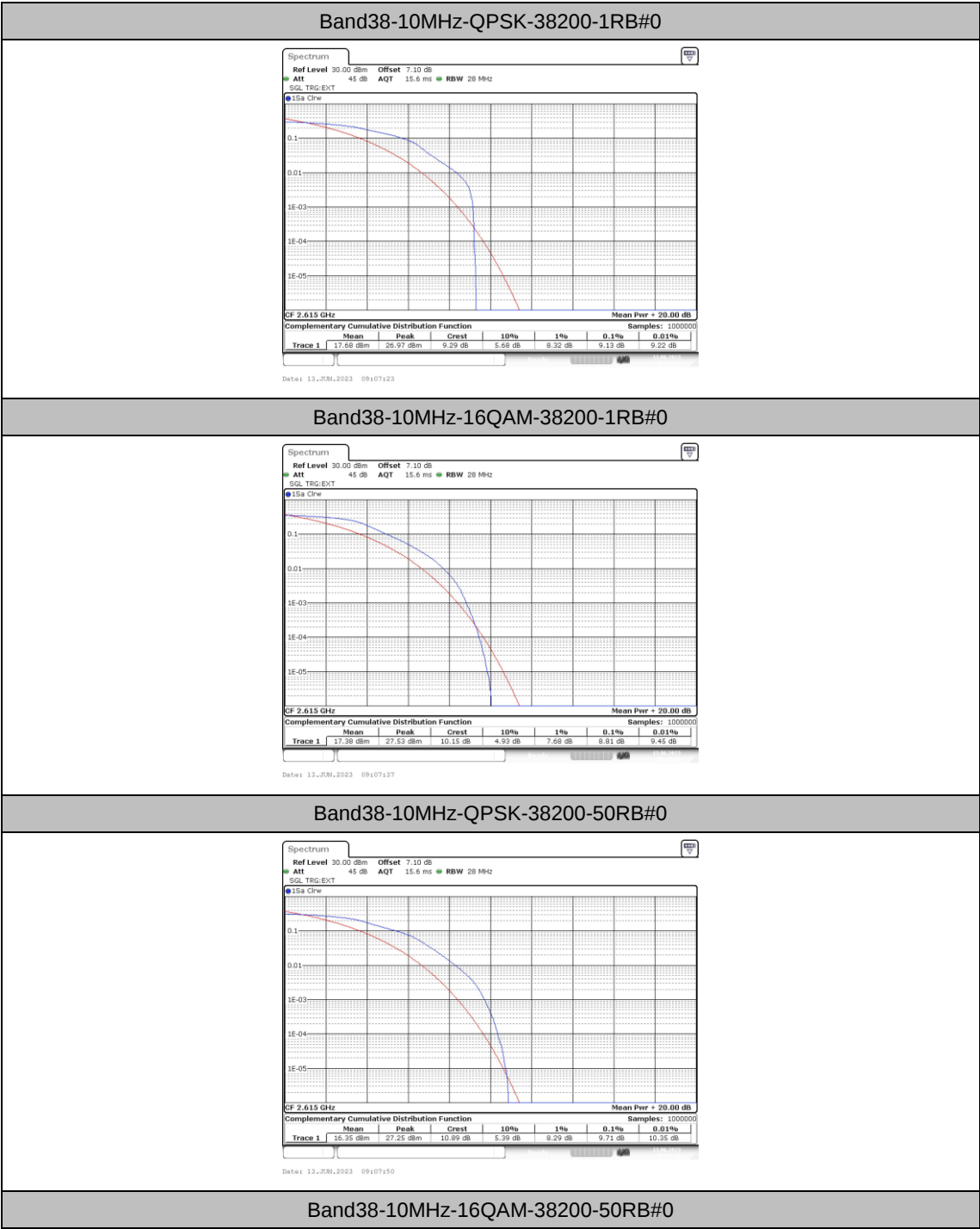


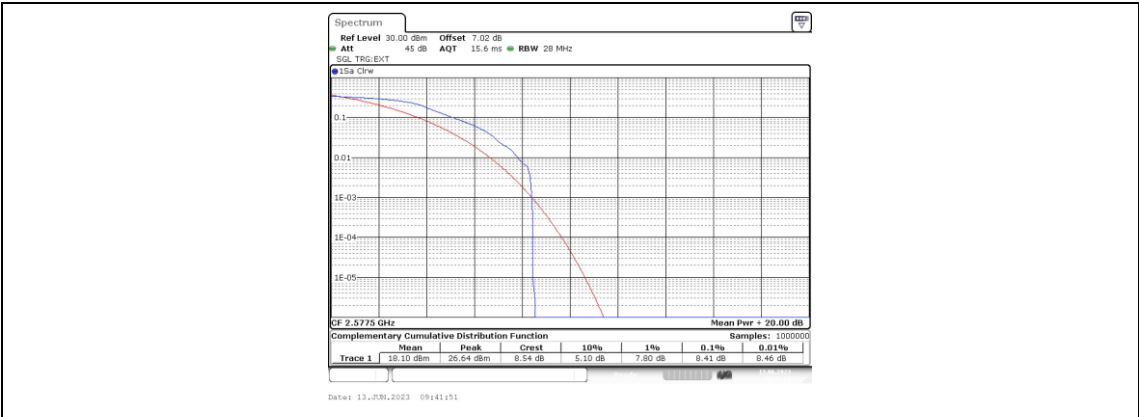
Band38-10MHz-QPSK-38000-50RB#0



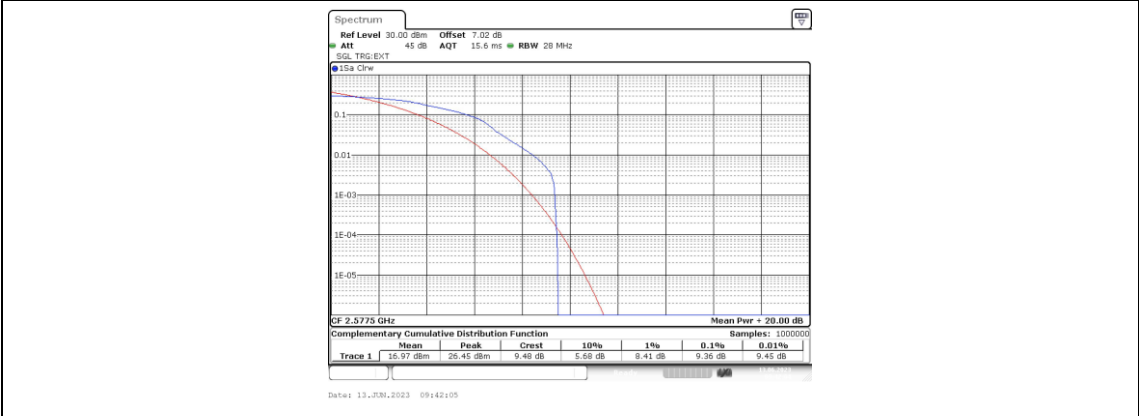
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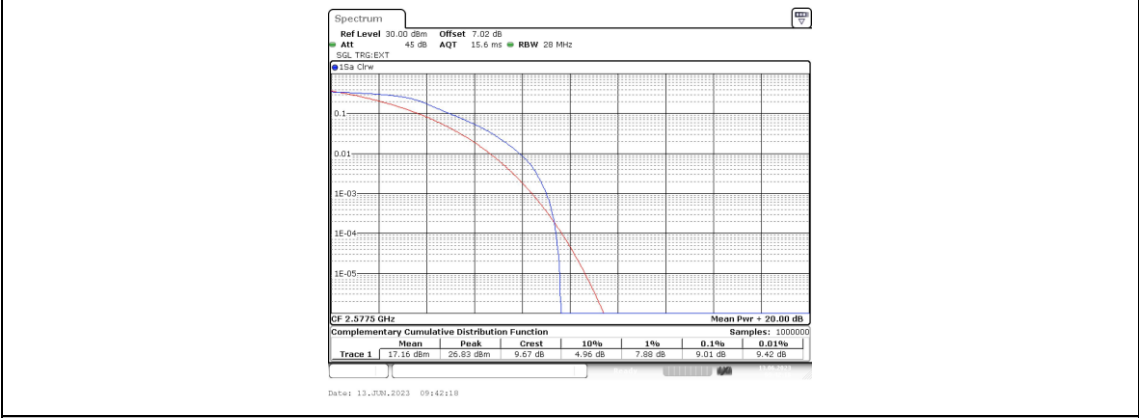




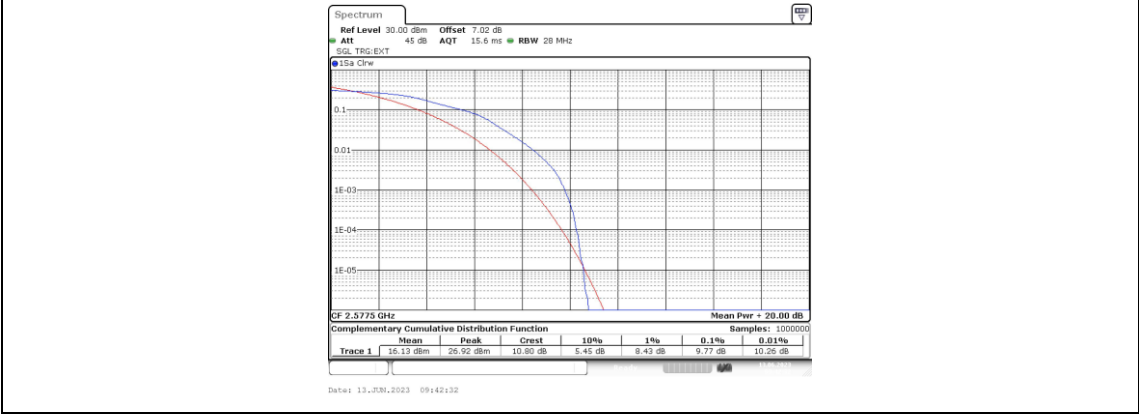
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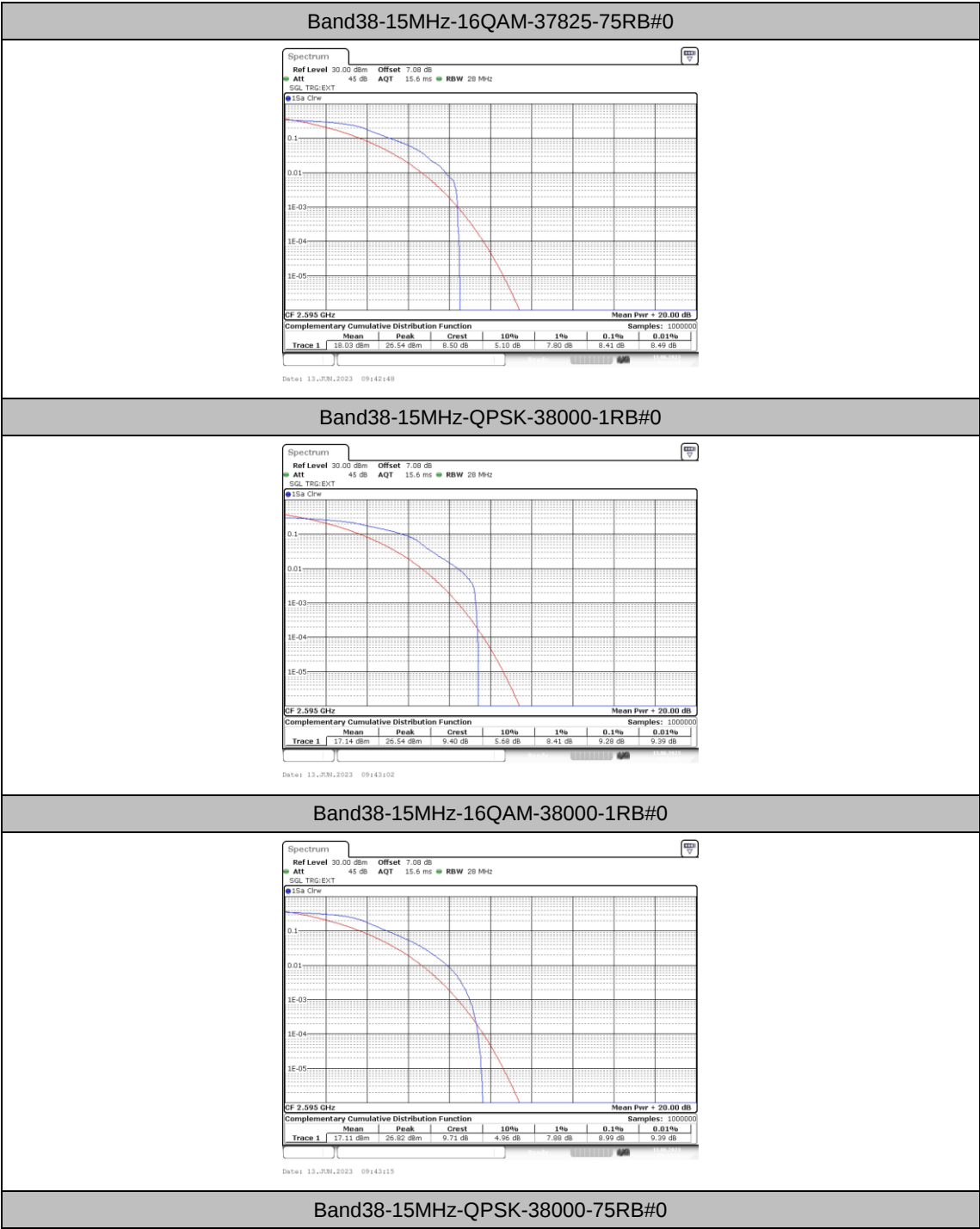


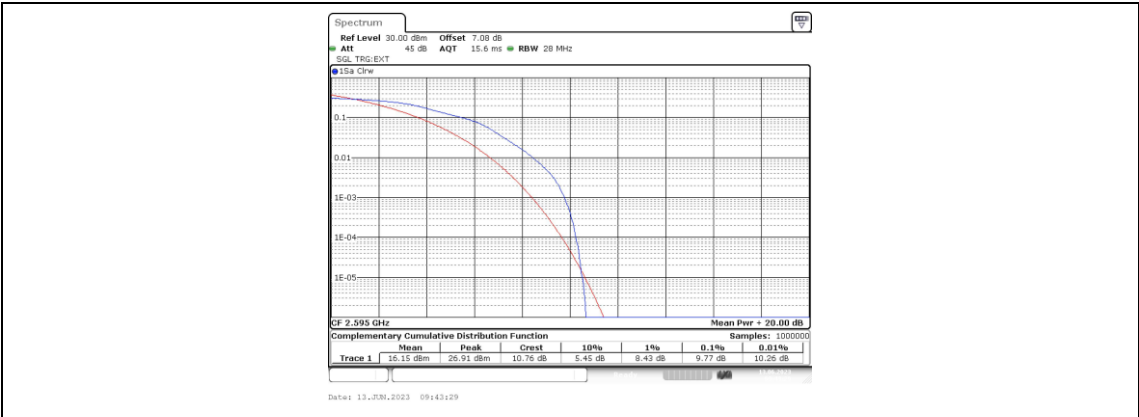
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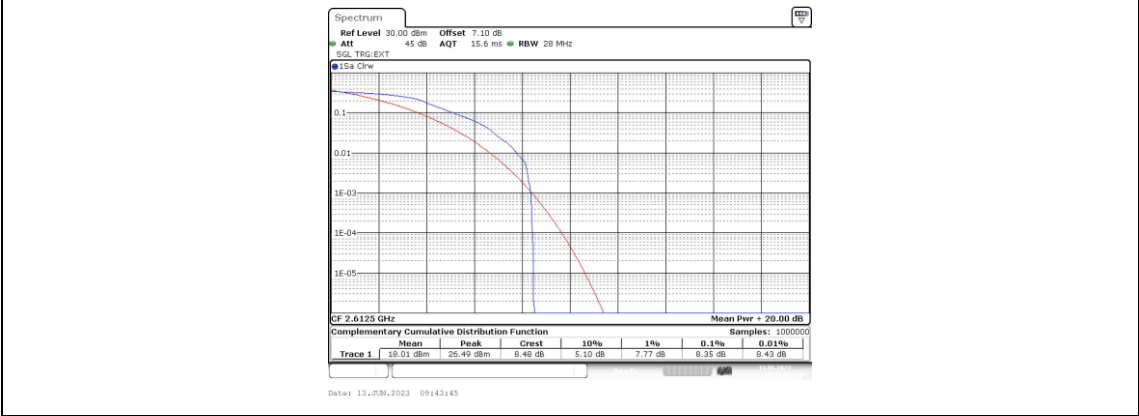
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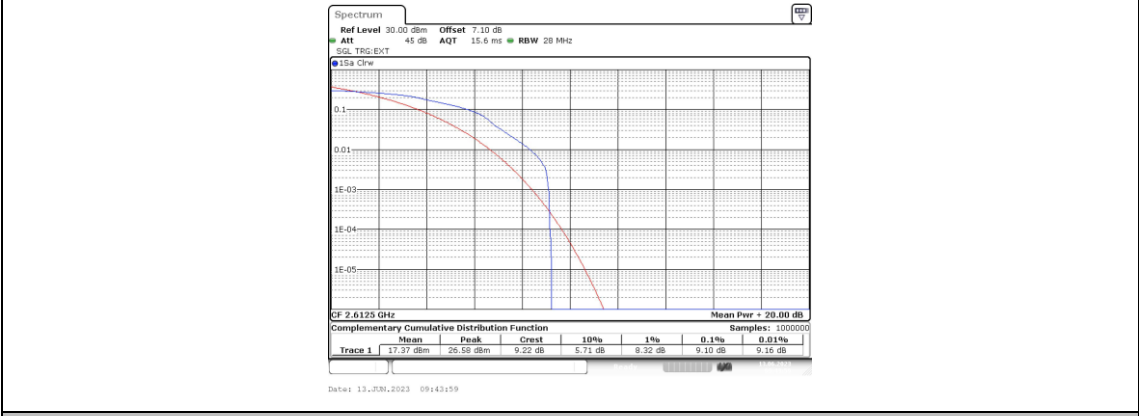




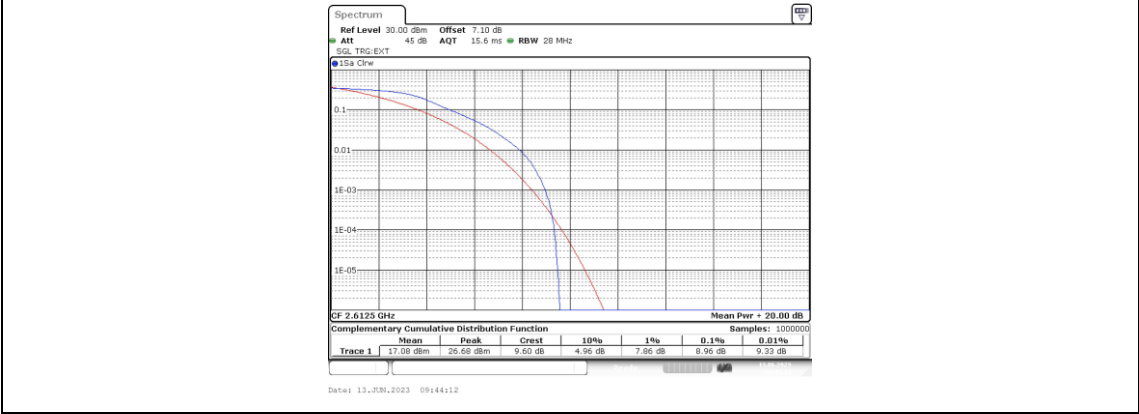
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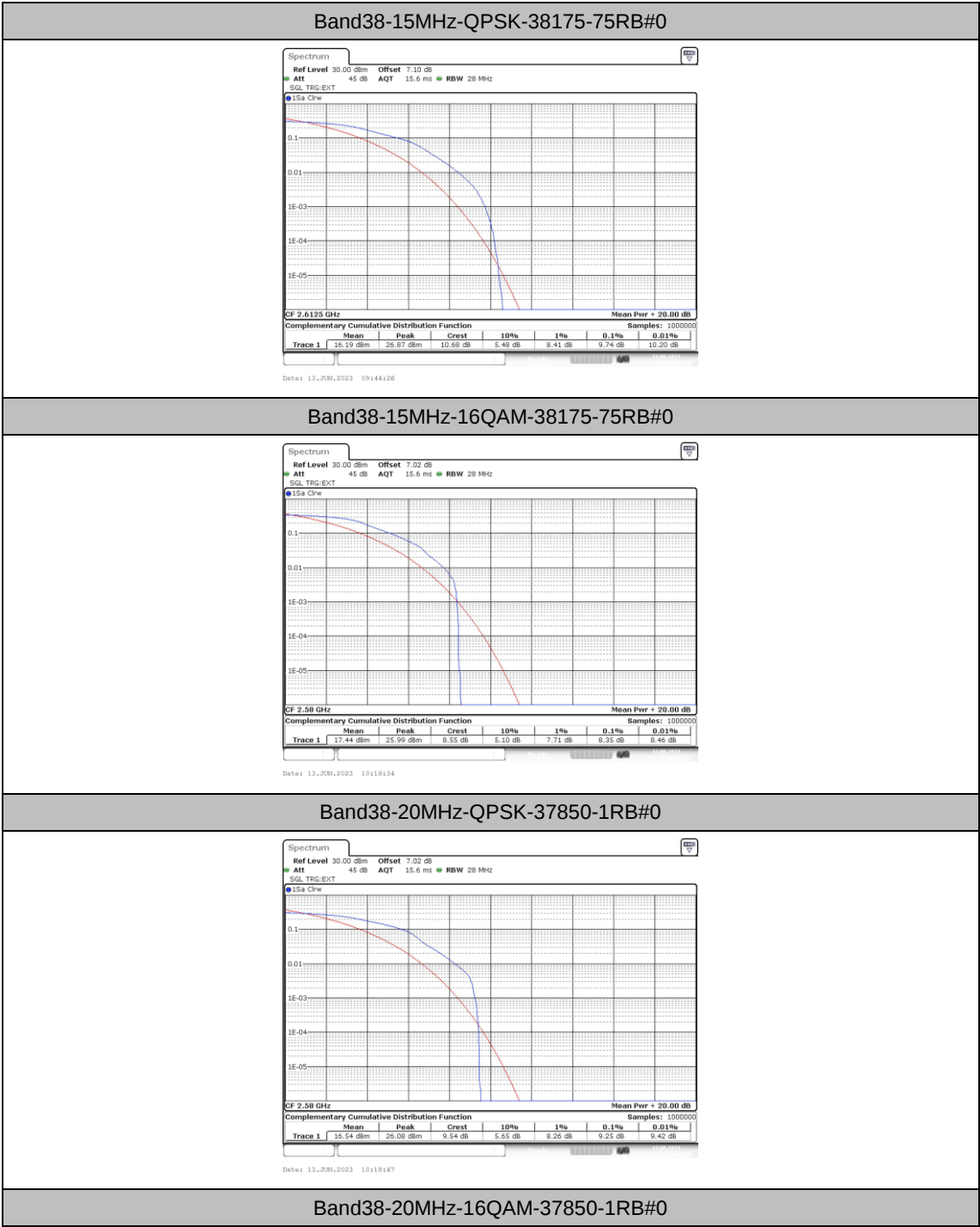


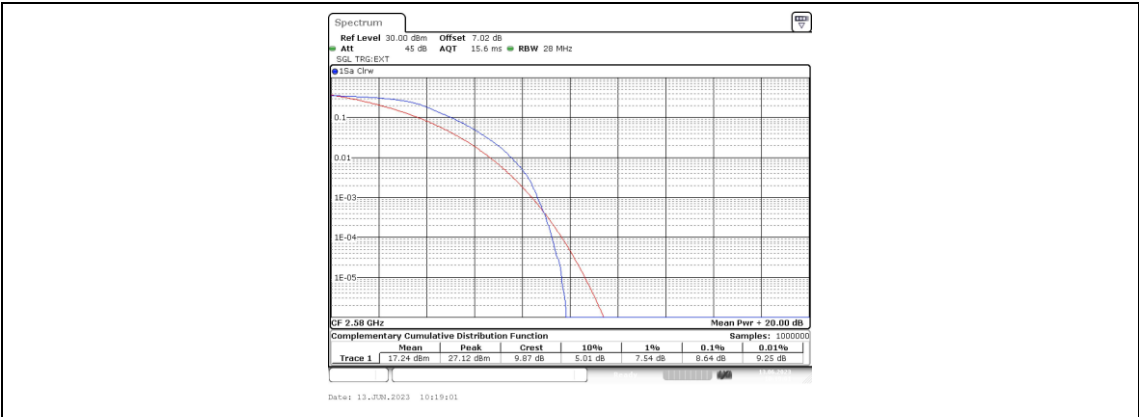
Band38-15MHz-QPSK-38175-1RB#0



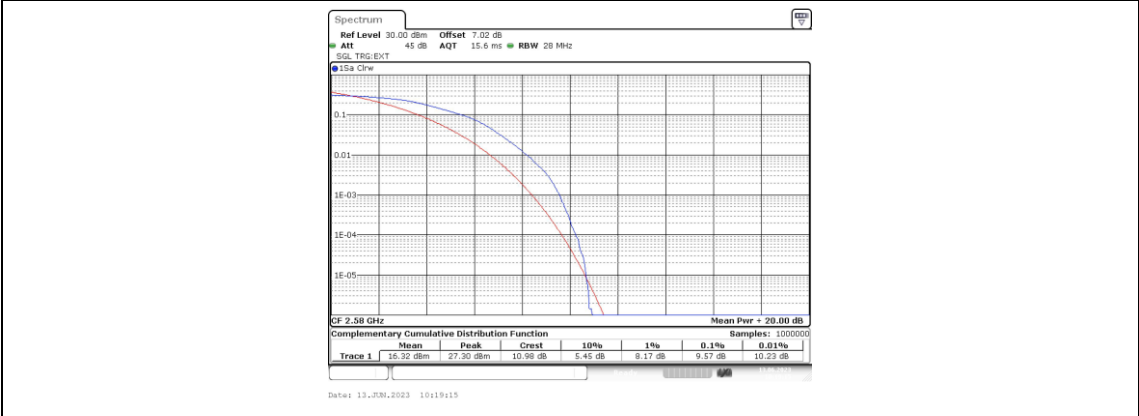
Band38-15MHz-16QAM-38175-1RB#0



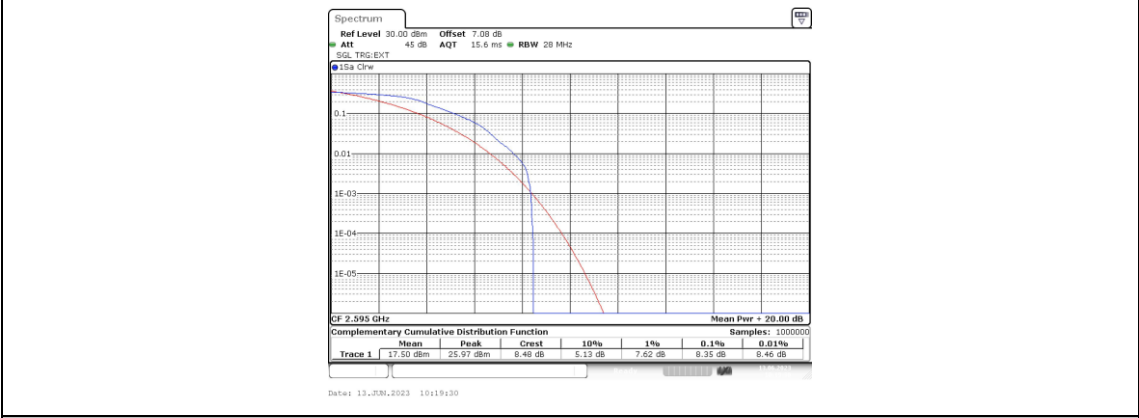




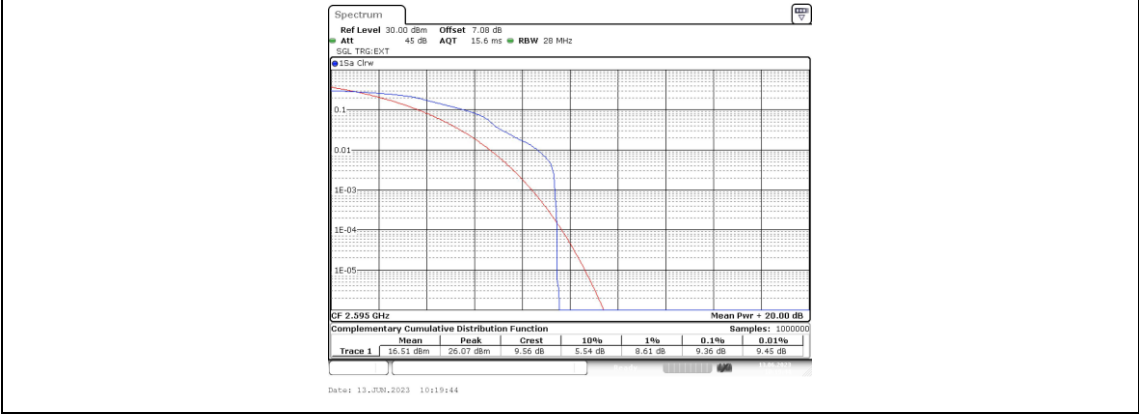
Band38-20MHz-QPSK-37850-100RB#0

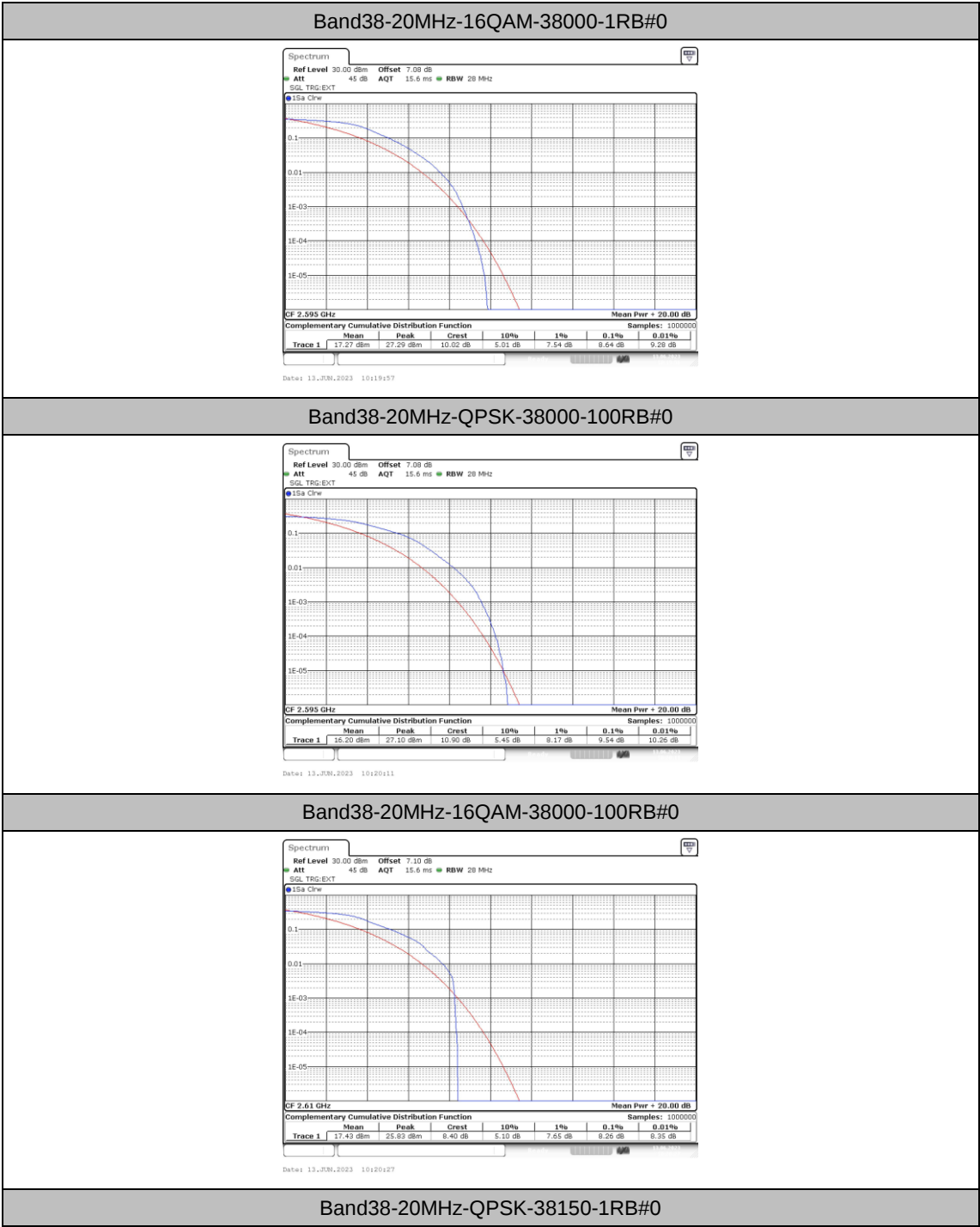


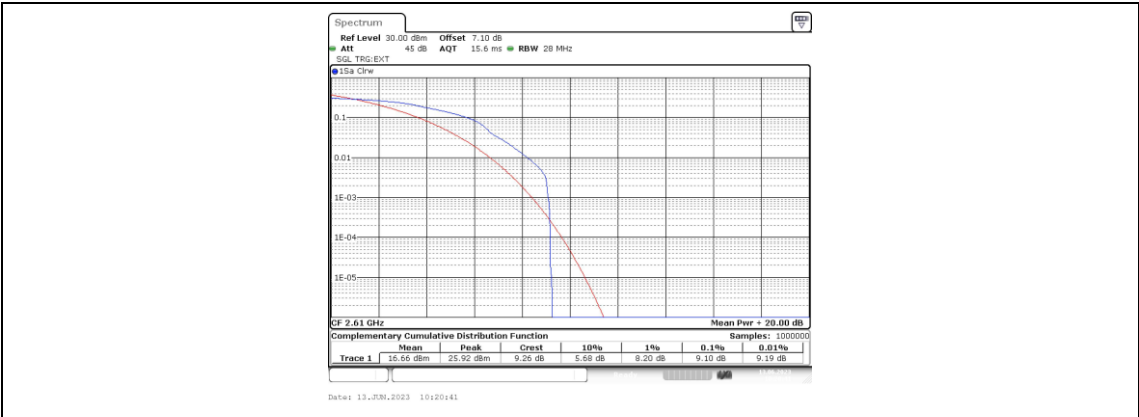
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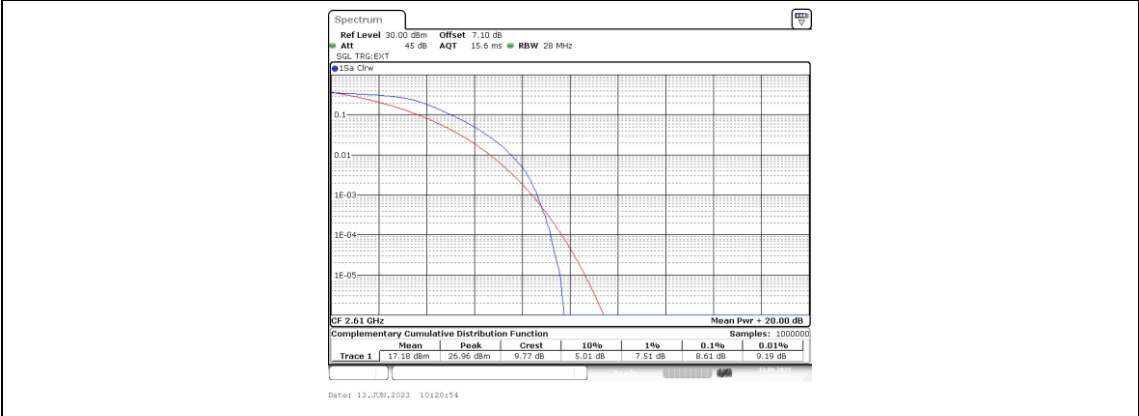
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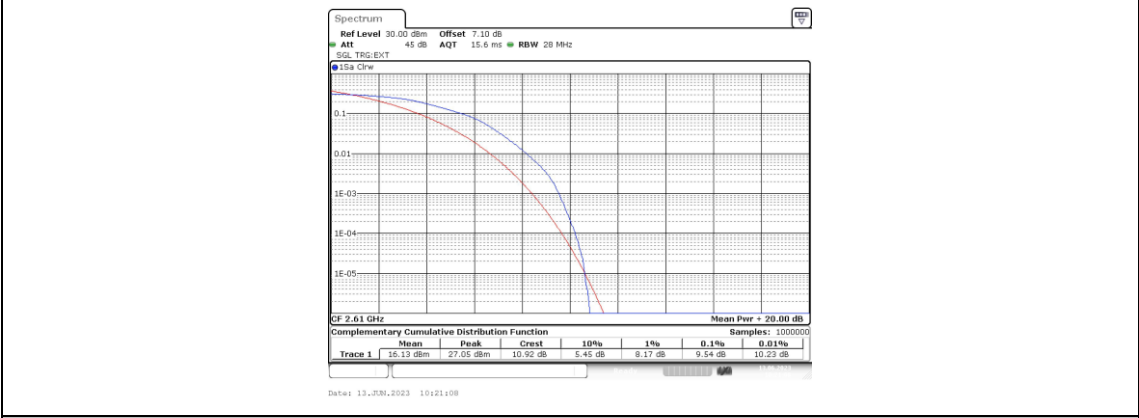




Band38-20MHz-16QAM-38150-1RB#0



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



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

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	4.496	4.78	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.496	4.77	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.505	4.79	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.496	4.78	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.505	4.80	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.496	4.79	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.985	9.53	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.985	9.53	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.985	9.53	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.985	9.53	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.952	9.53	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.985	9.53	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	14.30	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.428	14.30	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	14.30	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.478	14.30	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.97	19.33	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.97	19.33	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.97	19.33	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.97	19.33	PASS

Test Graphs

