Appendix for LTE Band 12

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Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.81	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.06	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.96	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.82	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.80	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.81	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.56	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.67	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.59	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.56	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.54	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.61	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.62	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.07	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.29	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.25	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.35	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.35	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.31	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.34	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.89	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.91	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.89	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.69	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.86	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.79	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.54	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.65	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.81	PASS

Band12	1.4MHz	16QAM	23095	1RB#5	22.78	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.41	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.29	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.39	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.63	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.11	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.32	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.82	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.10	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.01	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.02	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.28	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.80	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.81	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.95	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.87	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.86	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.97	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.85	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.60	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.63	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.62	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.57	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.57	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.73	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.58	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.01	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.22	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.25	PASS
Band12	3MHz	QPSK	23165	8RB#0	23.31	PASS
Band12	3MHz	QPSK	23165	8RB#4	23.32	PASS
Band12	3MHz	QPSK	23165	8RB#7	23.35	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.23	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.76	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.65	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.77	PASS

Band12	3MHz	16QAM	23025	8RB#0	20.98	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.95	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.92	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.92	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.38	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.46	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.29	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.30	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.41	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.50	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.37	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.73	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.65	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.94	PASS
Band12	3MHz	16QAM	23165	8RB#0	22.35	PASS
Band12	3MHz	16QAM	23165	8RB#4	22.35	PASS
Band12	3MHz	16QAM	23165	8RB#7	22.37	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.38	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.62	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.82	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.83	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.73	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.75	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.75	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.76	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.58	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.91	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.36	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.46	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.76	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.62	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.83	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.19	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.19	PASS
Band12	5MHz	QPSK	23155	12RB#0	23.07	PASS

Band12	5MHz	QPSK	23155	12RB#6	23.07	PASS
Band12	5MHz	QPSK	23155	12RB#13	23.19	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.12	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.64	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.83	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.20	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.69	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.71	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.60	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.85	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.43	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.28	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.70	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.36	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.36	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.68	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.46	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.24	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.59	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.68	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.96	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.94	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.13	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.04	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.54	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.99	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.46	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.68	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.71	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.34	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.04	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.51	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.62	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.86	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.25	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.32	PASS

Band12	10MHz	QPSK	23095	25RB#25	22.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.47	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.20	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.15	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.04	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.93	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.90	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.27	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.03	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.65	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.49	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.73	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.56	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.58	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.39	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.14	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.36	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.84	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.75	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.28	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.30	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.00	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.56	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.35	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.40	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.16	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.86	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.78	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.31	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.07	PASS

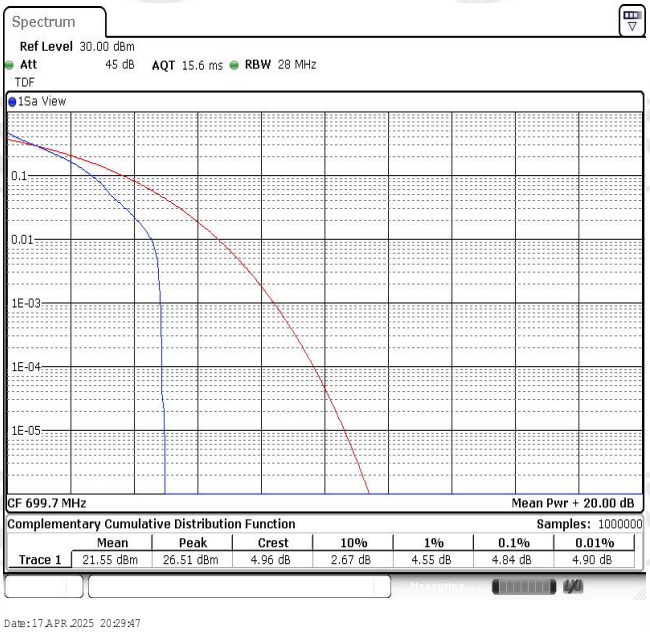
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

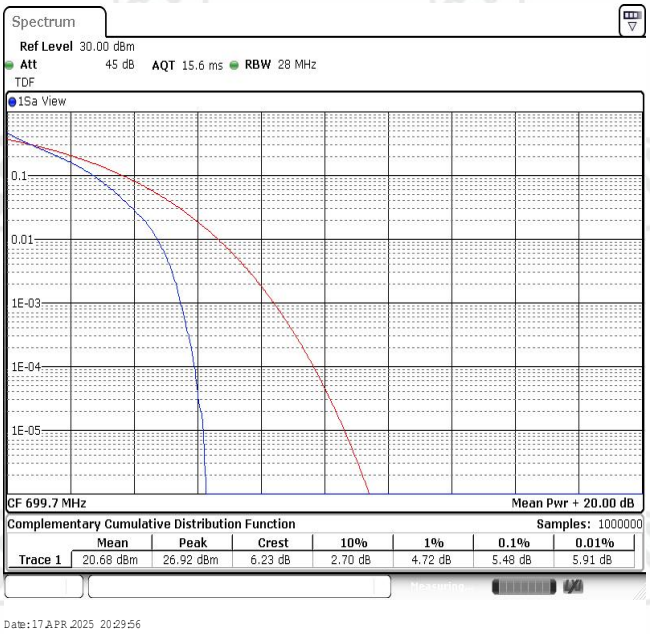
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.84	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.48	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.07	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.68	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.64	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.30	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.83	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.38	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.20	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.58	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.71	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.20	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.84	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.57	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.10	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.77	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.78	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.39	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.74	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.46	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.14	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.61	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.71	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.26	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.81	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.57	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.07	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.74	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.96	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.42	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.80	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.38	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.94	13	PASS

Band12	5MHz	16QAM	23095	25RB#0	6.55	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.91	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.23	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.84	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.74	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.90	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.68	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.04	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.77	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.55	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.55	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.97	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.32	13	PASS

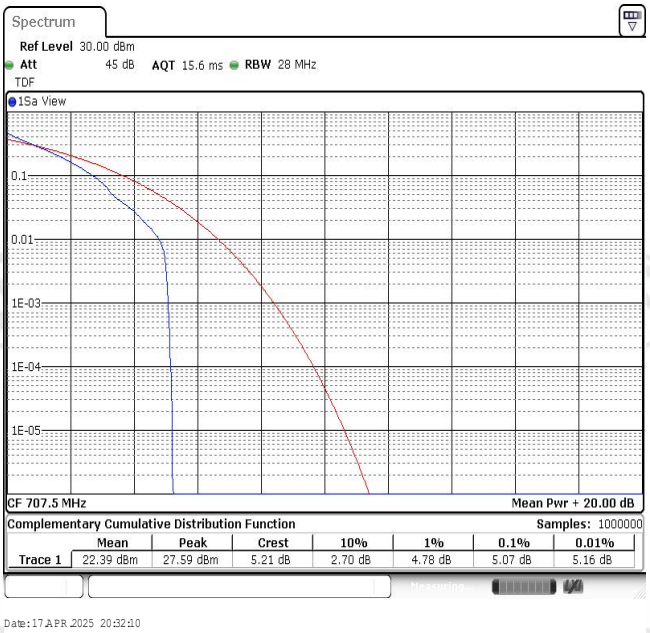
Test Graphs



Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



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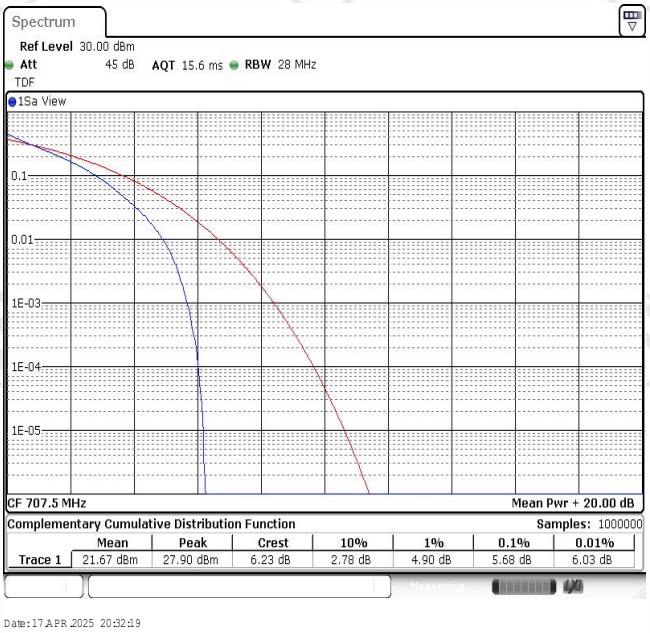

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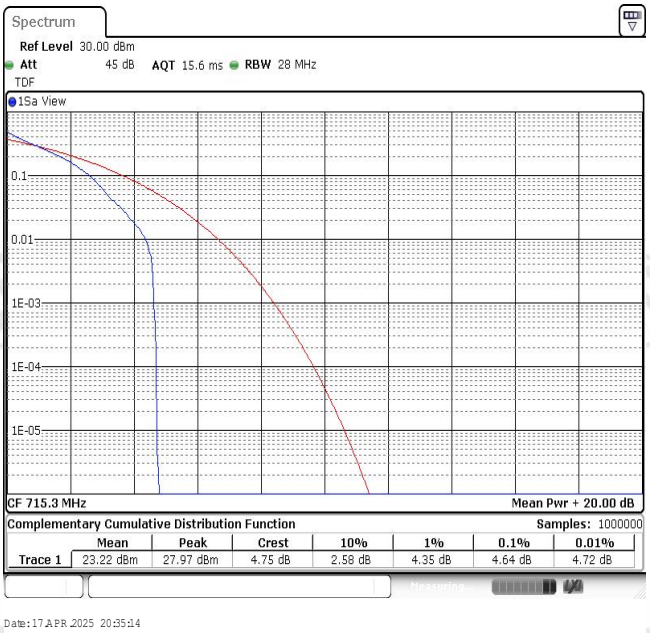
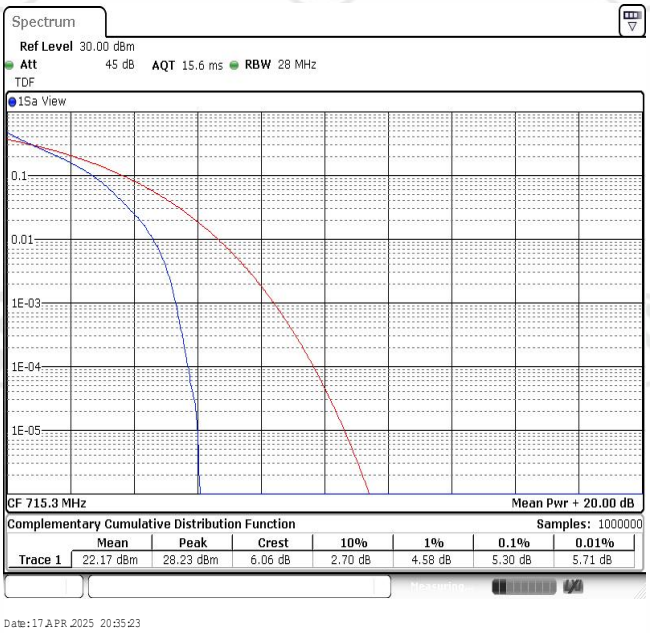
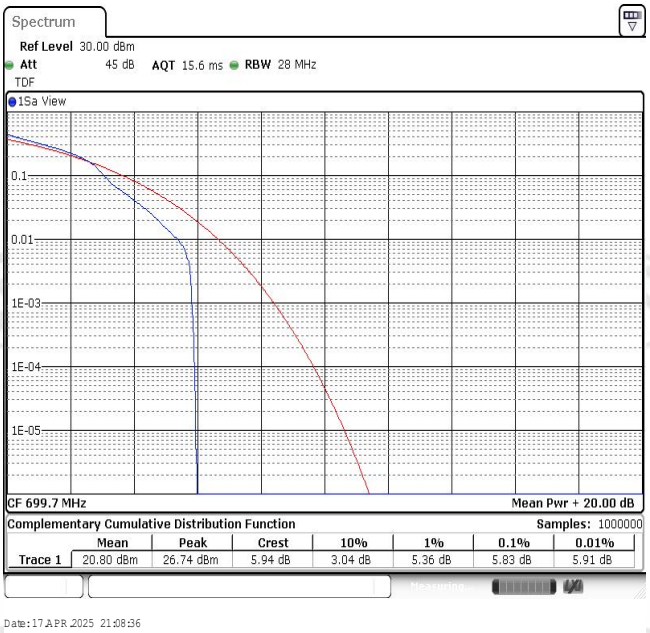


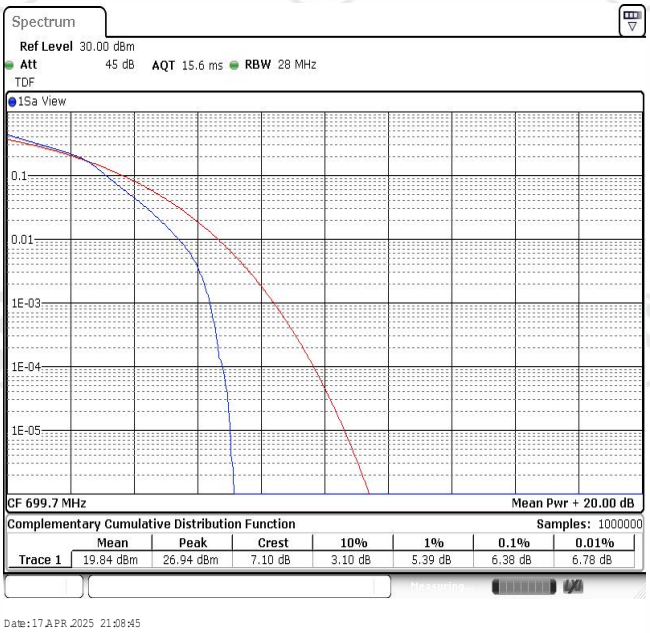
Band12-1.4MHz-QPSK-23173-1RB#0



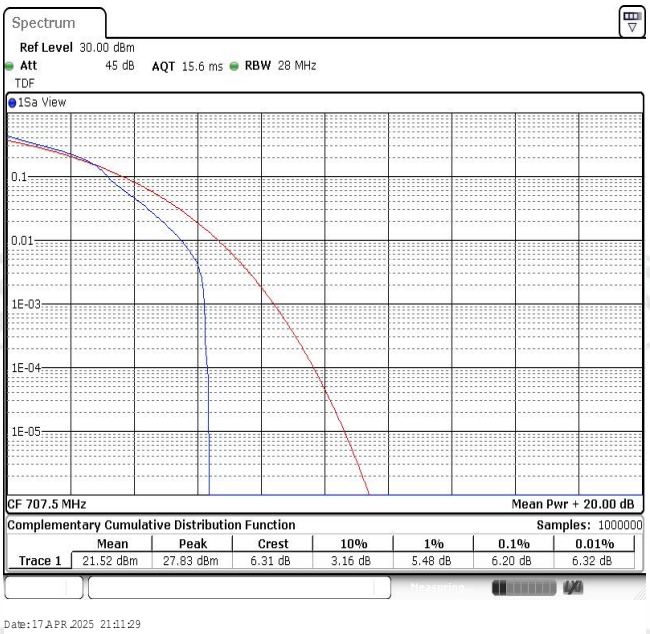
Band12-1.4MHz-QPSK-23173-6RB#0



Band12-1.4MHz-16QAM-23017-1RB#0



Band12-1.4MHz-16QAM-23017-6RB#0



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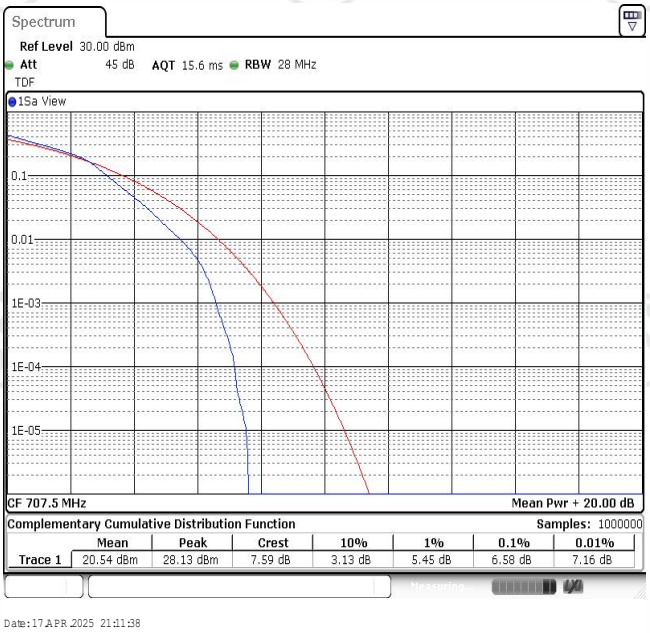
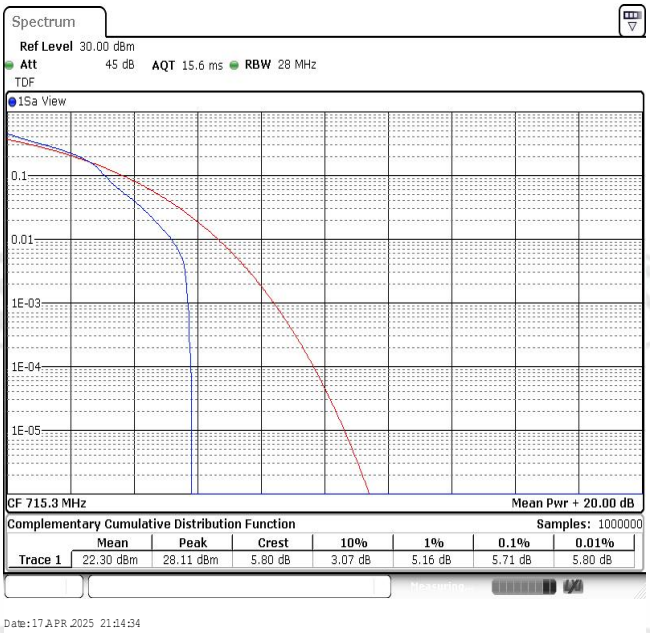


Band12-1.4MHz-16QAM-23095-6RB#0



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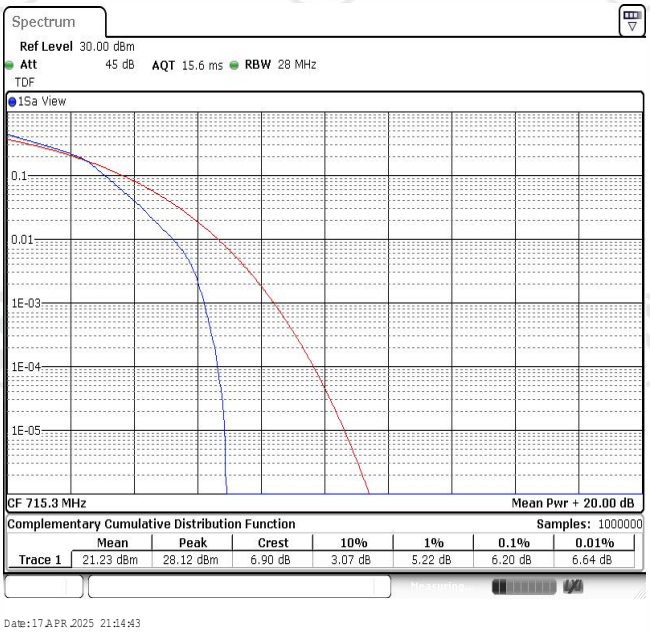
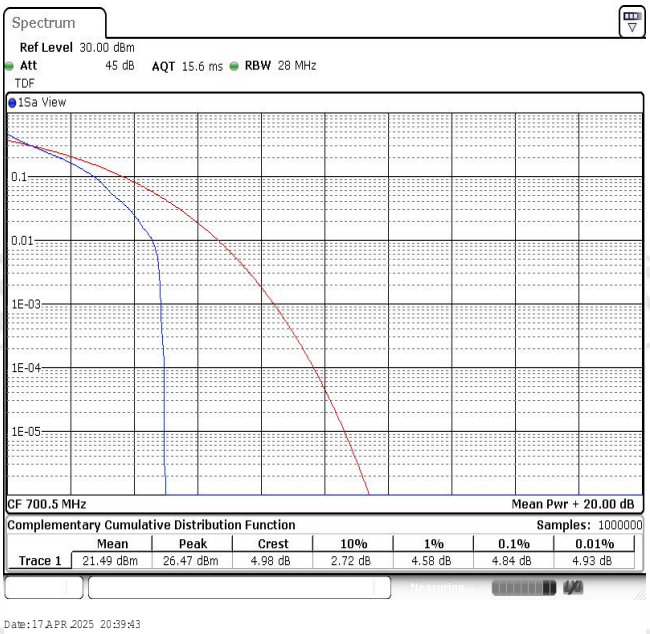
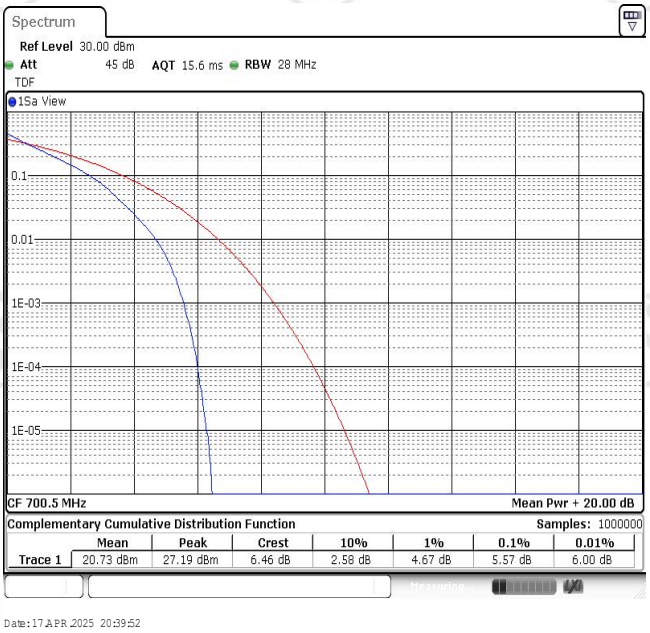


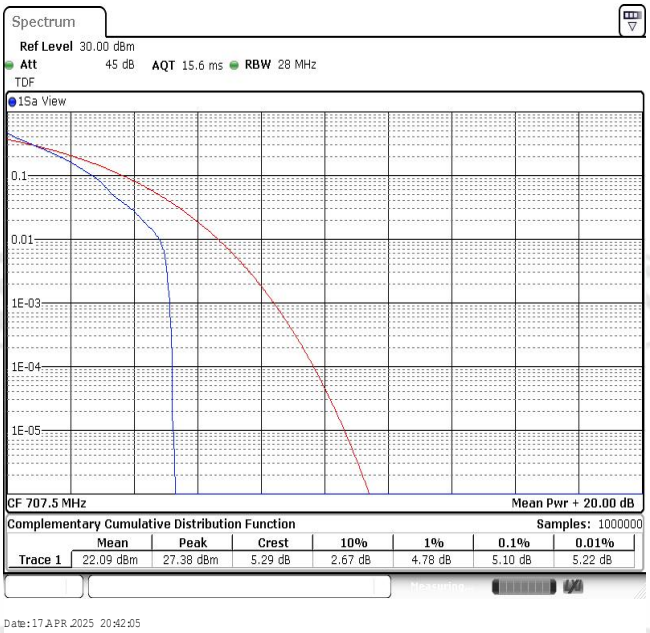
Band12-1.4MHz-16QAM-23173-6RB#0



Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0



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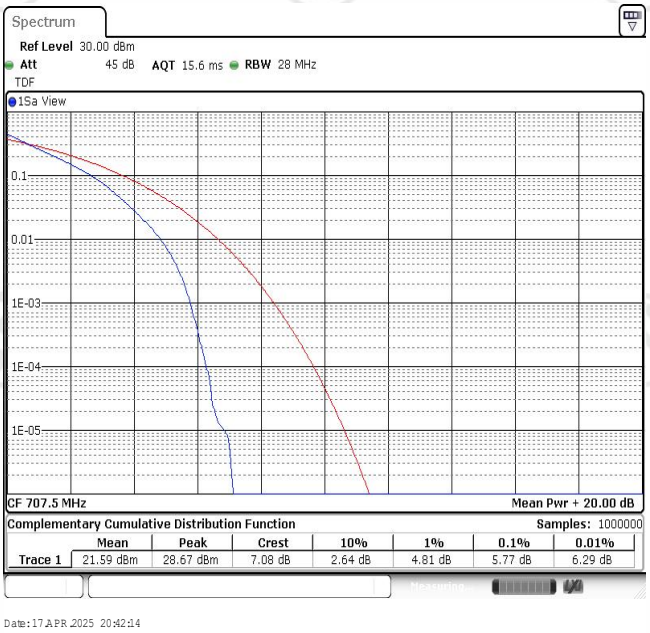

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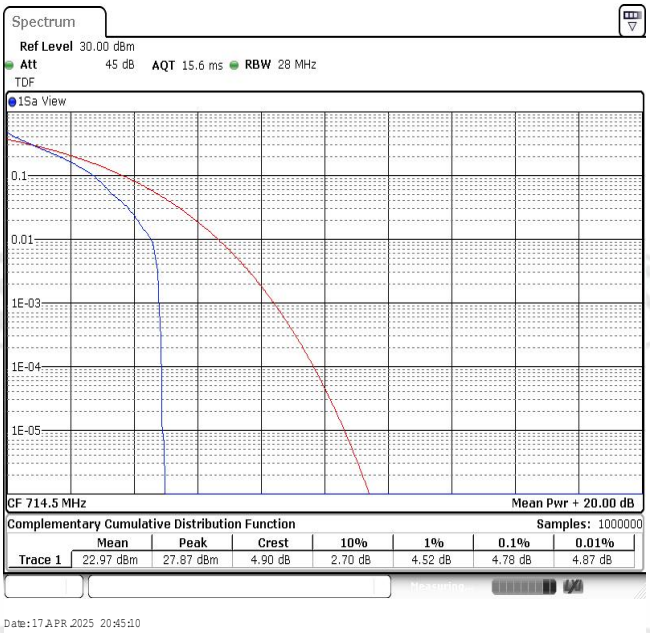

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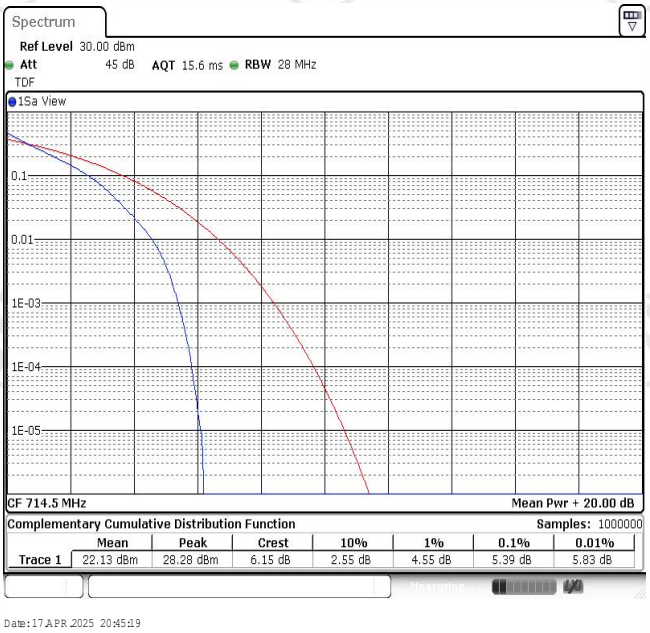

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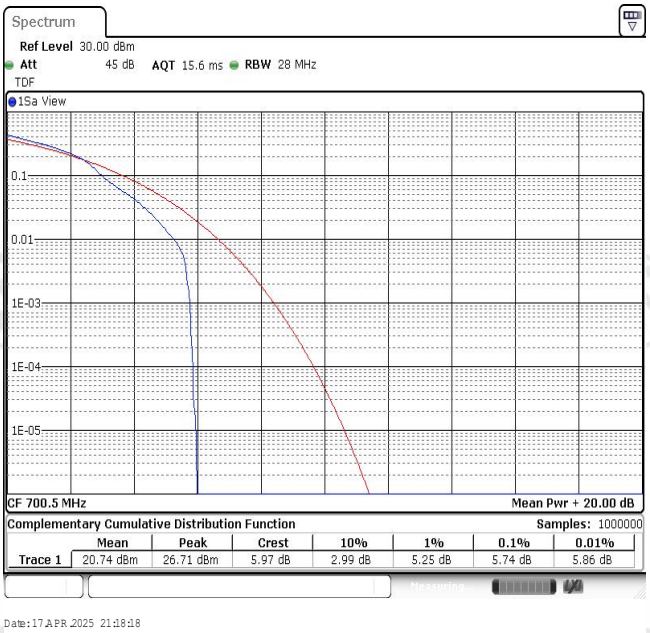

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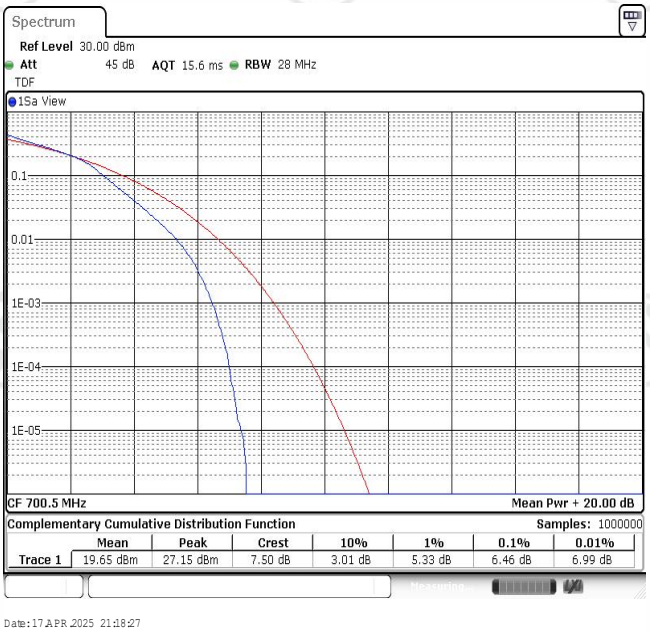

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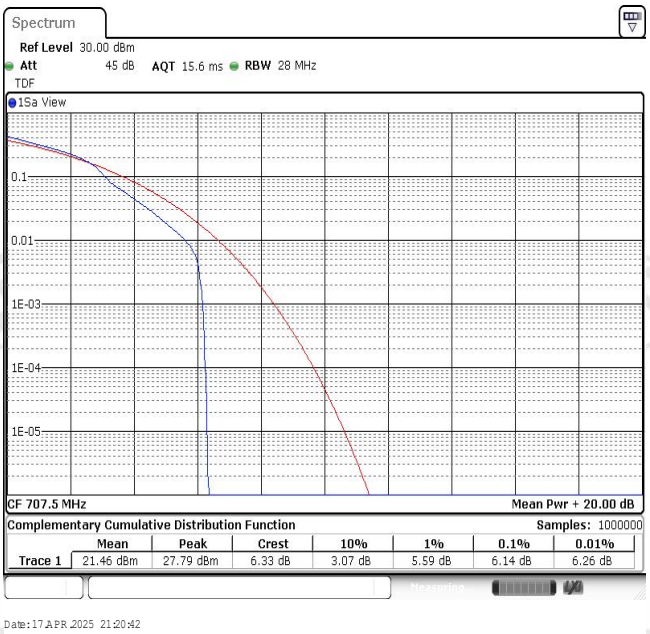

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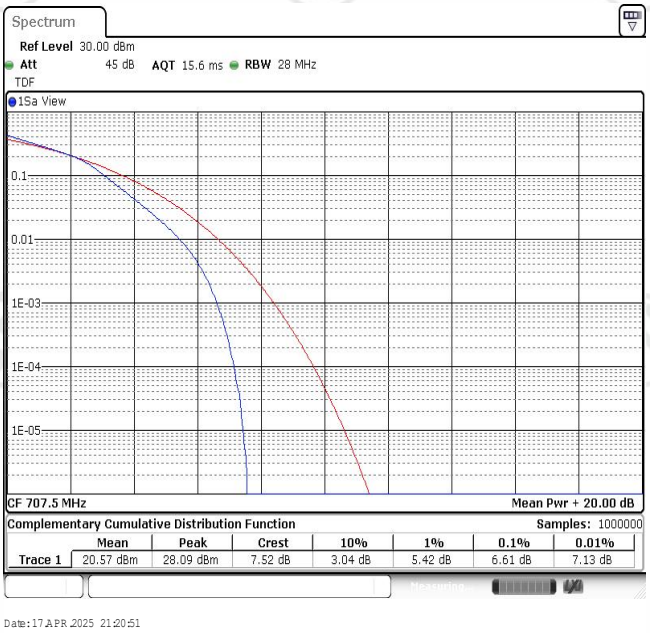

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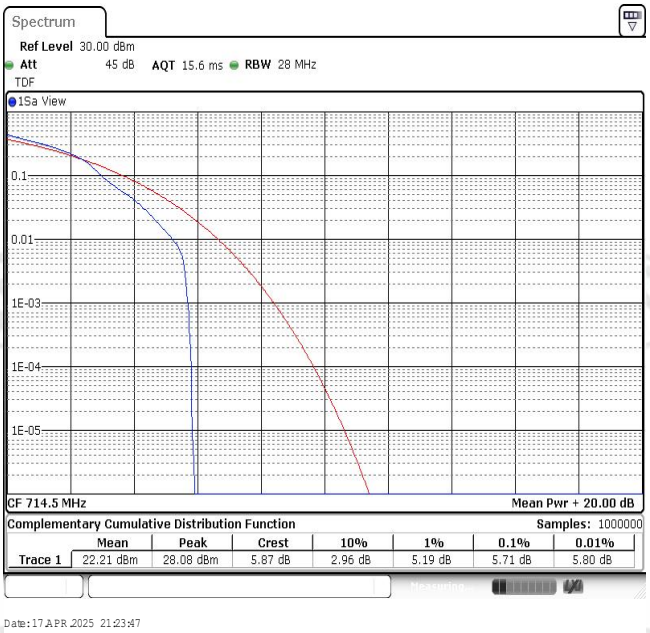

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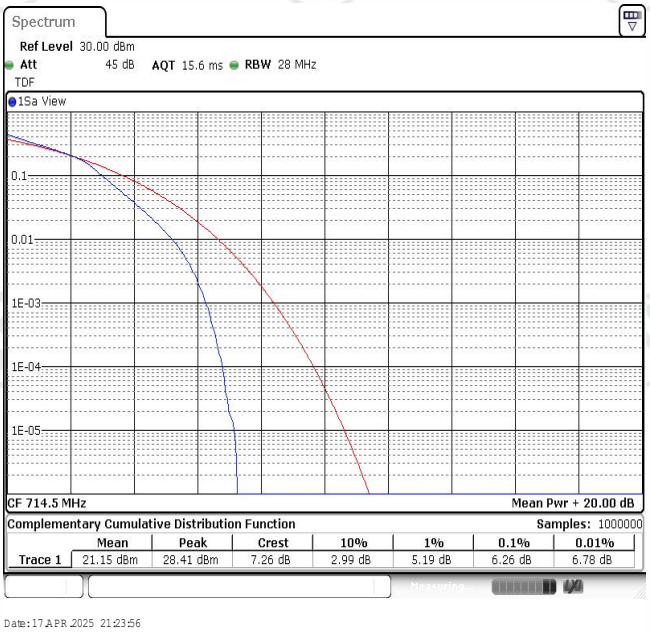

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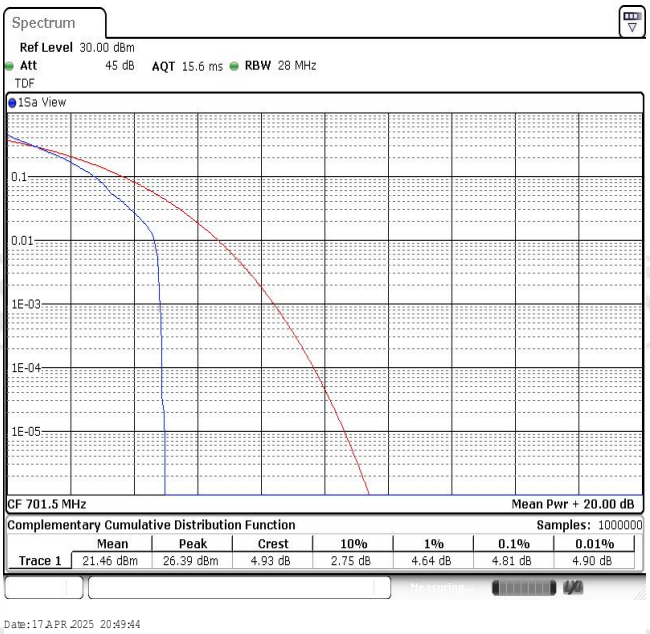

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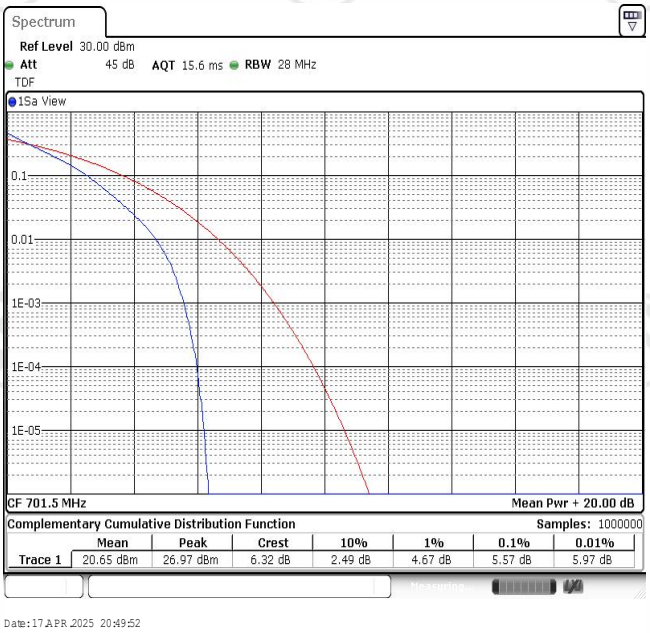

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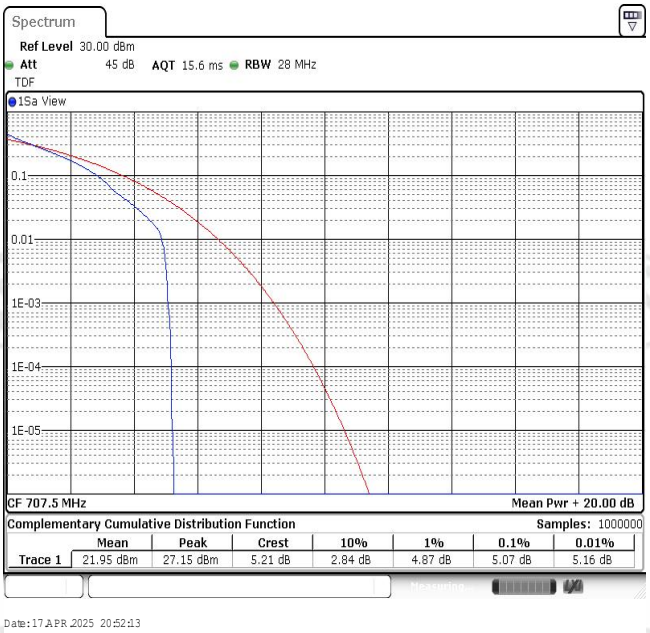

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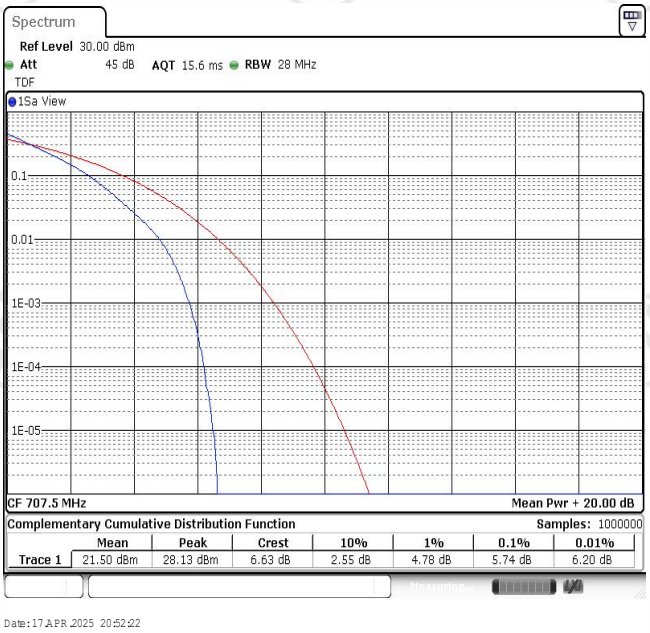

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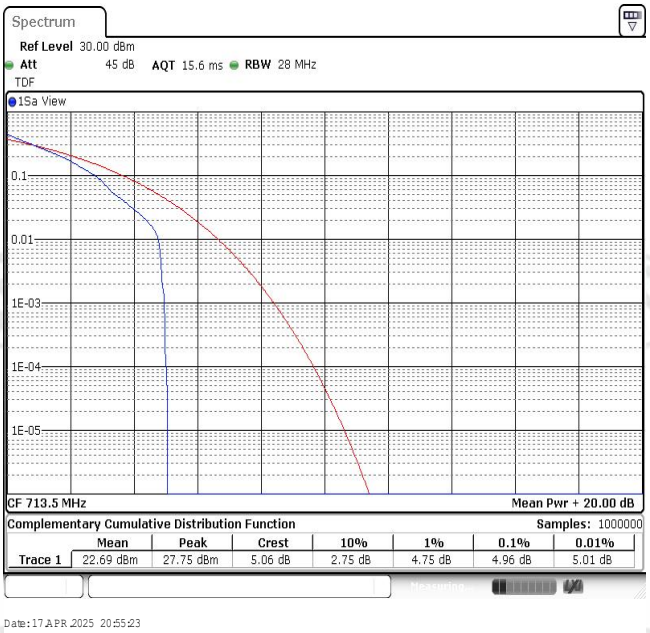

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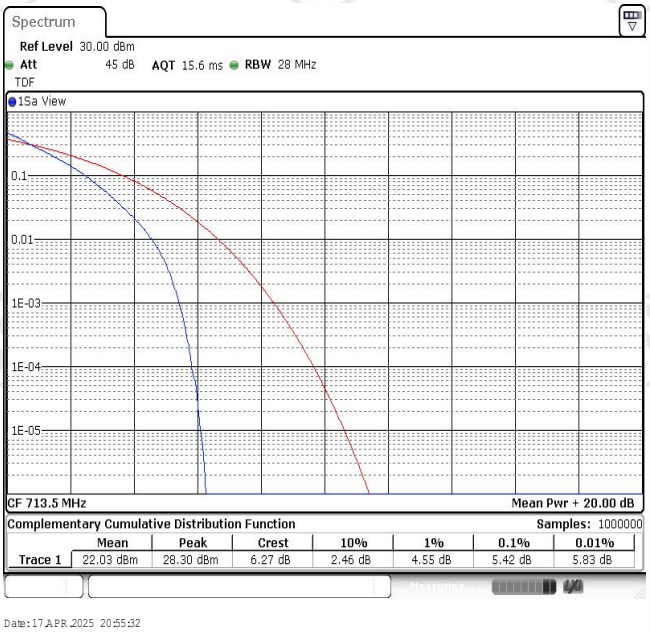

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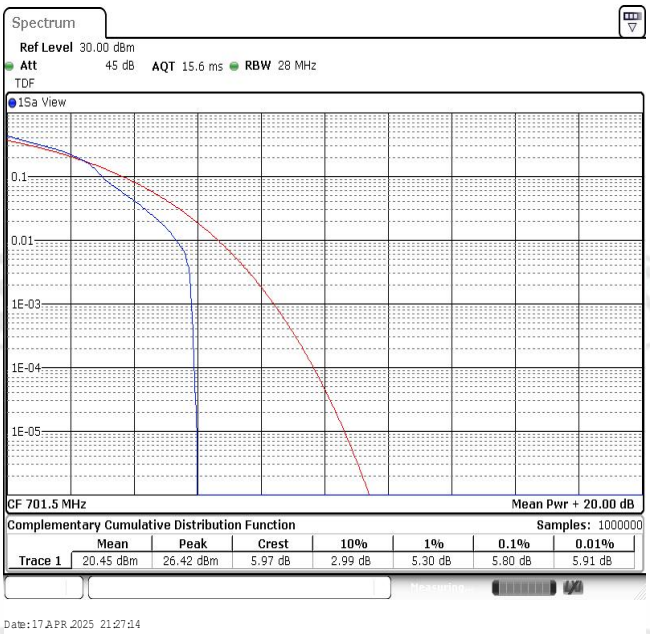

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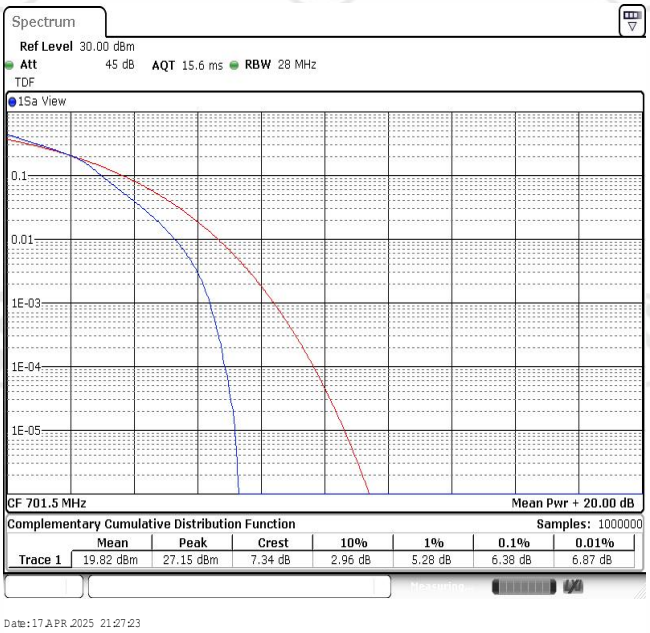

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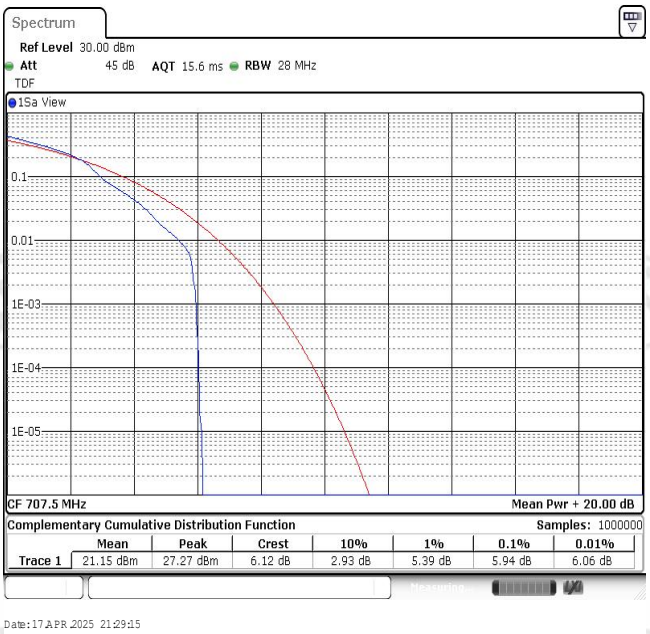

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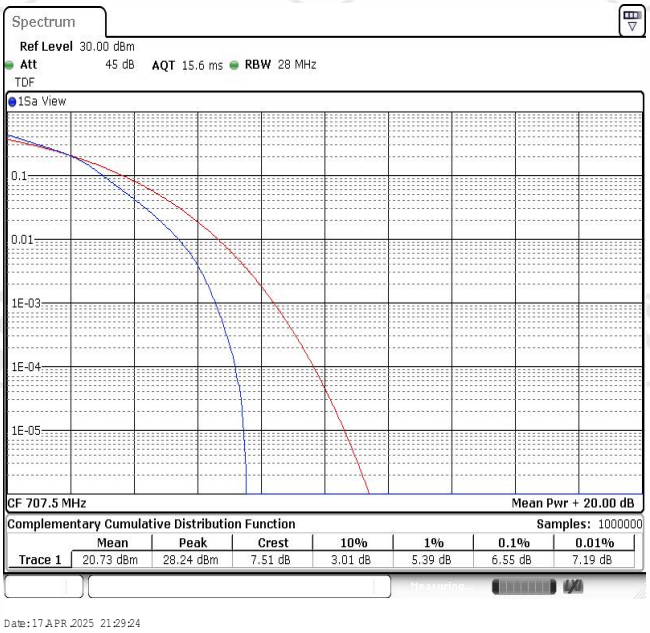

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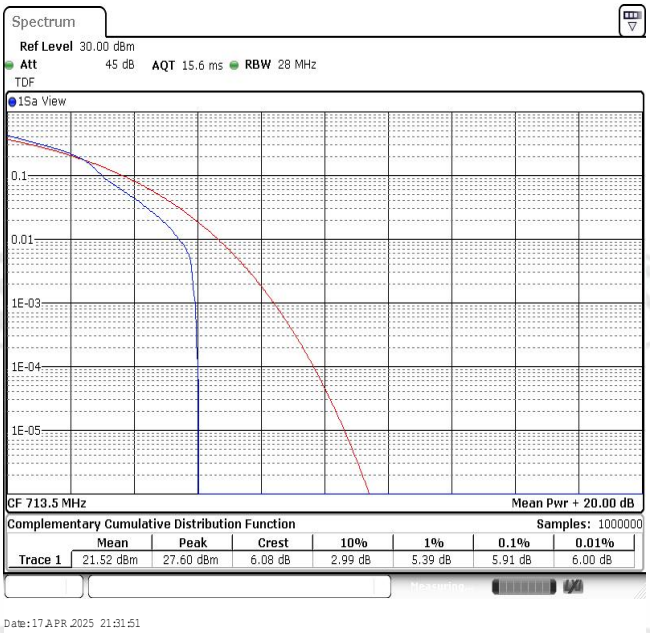

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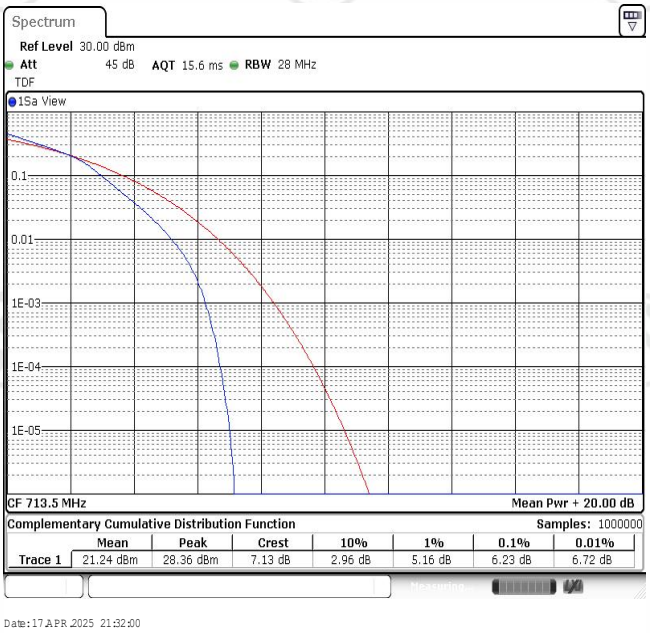

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