

Appendix for LTE Band 12

Product Name: EcoFlow 4G Dongle PPS (NA)

Model No: EF HD-P2-4G-S1

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.34	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.53	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.51	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.67	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.33	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.54	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.34	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.20	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.40	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.36	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.43	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.36	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.33	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.44	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.41	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.73	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.68	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.76	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.52	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.61	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.43	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.33	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.33	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.24	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.38	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.98	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.34	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.46	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.52	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.72	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.44	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.79	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.71	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.31	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.65	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.51	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	23.48	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.43	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.55	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.51	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.51	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.53	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.33	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.41	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.38	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.30	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.51	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.31	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.37	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.51	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.38	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.43	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.44	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.37	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.39	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.44	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.50	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.56	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.54	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.10	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.19	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.23	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.38	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.20	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.39	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.30	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.43	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.53	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.39	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.39	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.59	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.51	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.52	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.84	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.52	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.62	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.68	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.80	PASS

Band12	3MHz	QPSK	23165	8RB#4	22.55	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.45	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.49	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.32	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.47	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.40	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.28	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.15	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.44	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.54	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.32	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.28	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.40	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.39	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.41	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.40	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.34	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.24	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.34	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.52	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.63	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.53	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.56	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.82	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.37	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.55	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.47	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.33	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.39	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.17	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.37	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.31	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.36	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.33	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.44	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.46	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.47	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.55	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.40	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.57	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.59	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.43	PASS

Band12	5MHz	QPSK	23155	12RB#6	22.43	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.44	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.38	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.32	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.43	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.45	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.86	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.02	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.79	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.80	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.89	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.76	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.86	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.73	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.14	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.70	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.83	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.82	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.75	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.74	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.95	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.27	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.87	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.80	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.81	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.78	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.86	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.01	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.48	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.70	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.71	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.43	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.87	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.90	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.38	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.81	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.89	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.81	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.18	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.49	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.80	PASS

Band12	10MHz	16QAM	23130	25RB#0	20.79	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.08	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.00	PASS

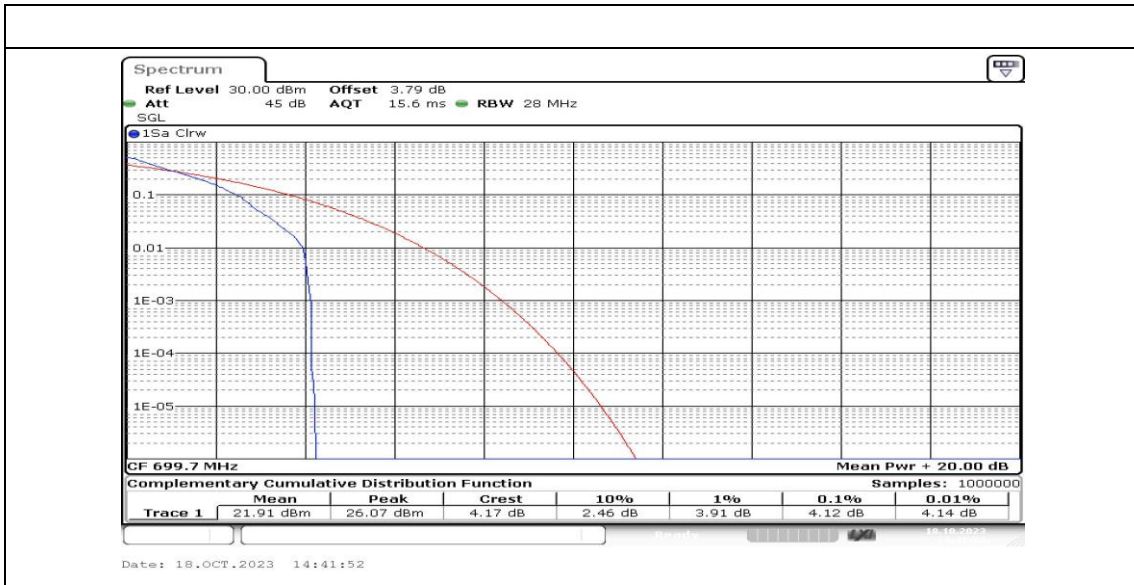
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

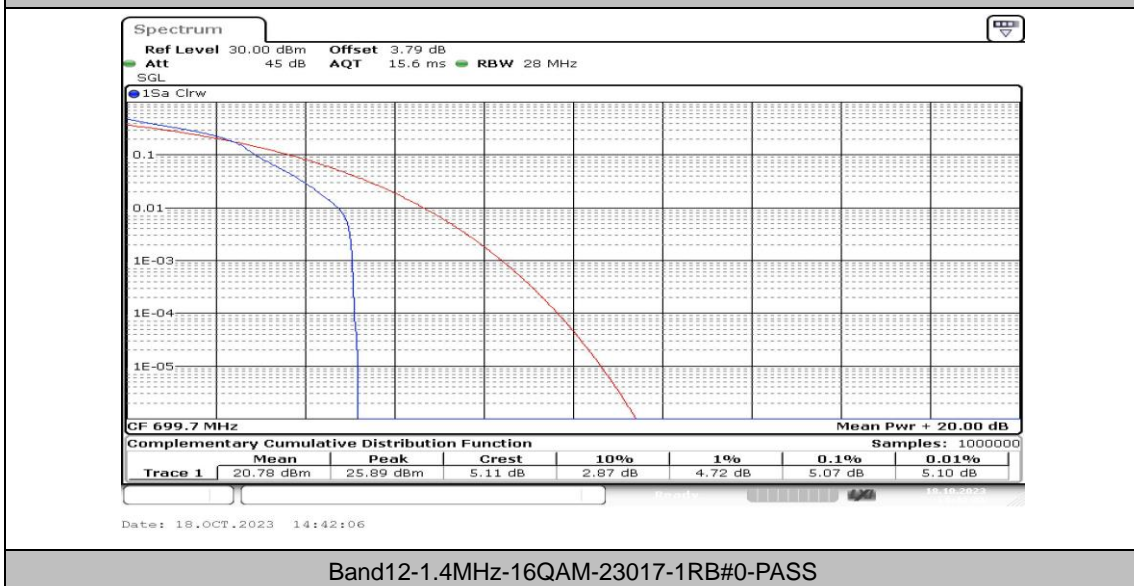
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.12	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.07	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	4.75	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.57	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.00	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	4.96	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	4.72	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.54	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.06	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.93	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.72	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.54	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.17	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.01	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.84	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.68	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.06	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	4.96	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	4.72	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.59	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.12	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.01	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.75	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.59	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.14	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.10	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.84	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.68	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.12	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	4.99	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.75	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.59	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.12	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.13	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.75	13	PASS

Band12	5MHz	16QAM	23155	25RB#0	5.57	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.20	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	4.87	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.26	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.81	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.09	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.78	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.01	13	PASS
Band12	10MHz	16QAM	23060	25RB#0	5.51	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.33	13	PASS
Band12	10MHz	16QAM	23095	25RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	4.99	13	PASS
Band12	10MHz	16QAM	23130	25RB#0	5.42	13	PASS

Test Graphs



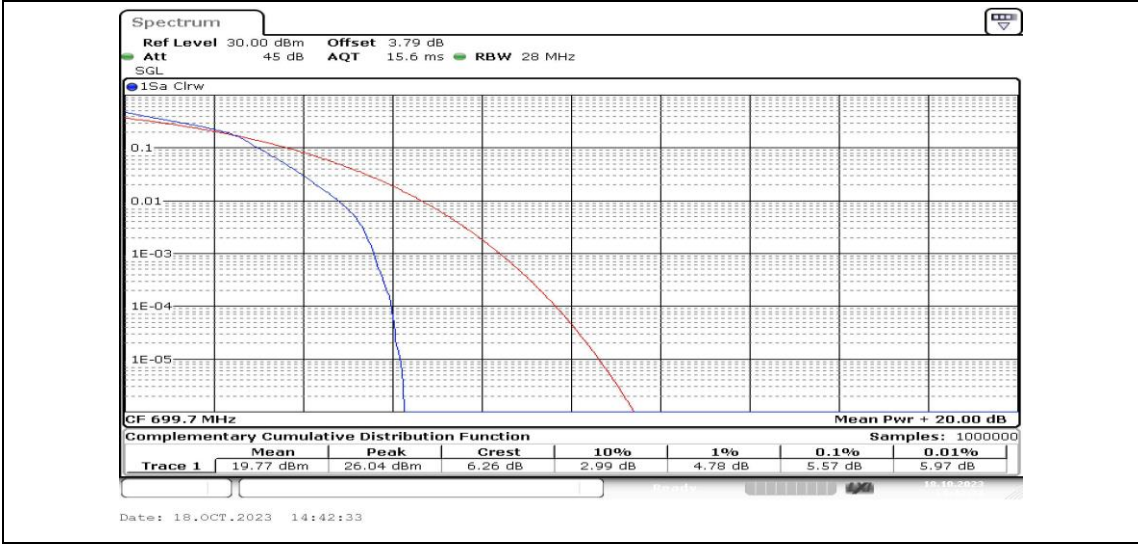
Band12-1.4MHz-QPSK-23017-1RB#0-PASS



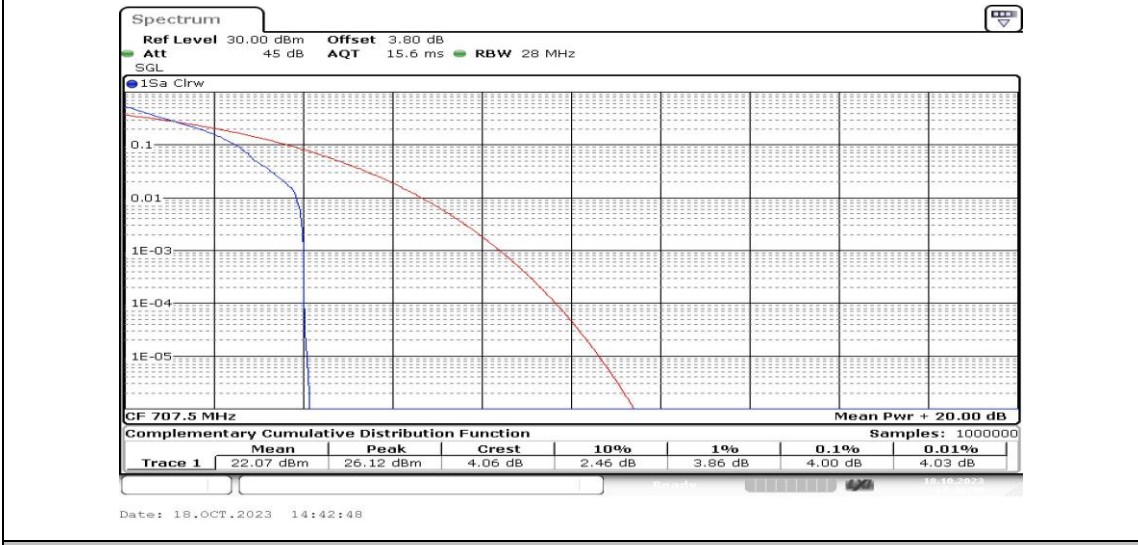
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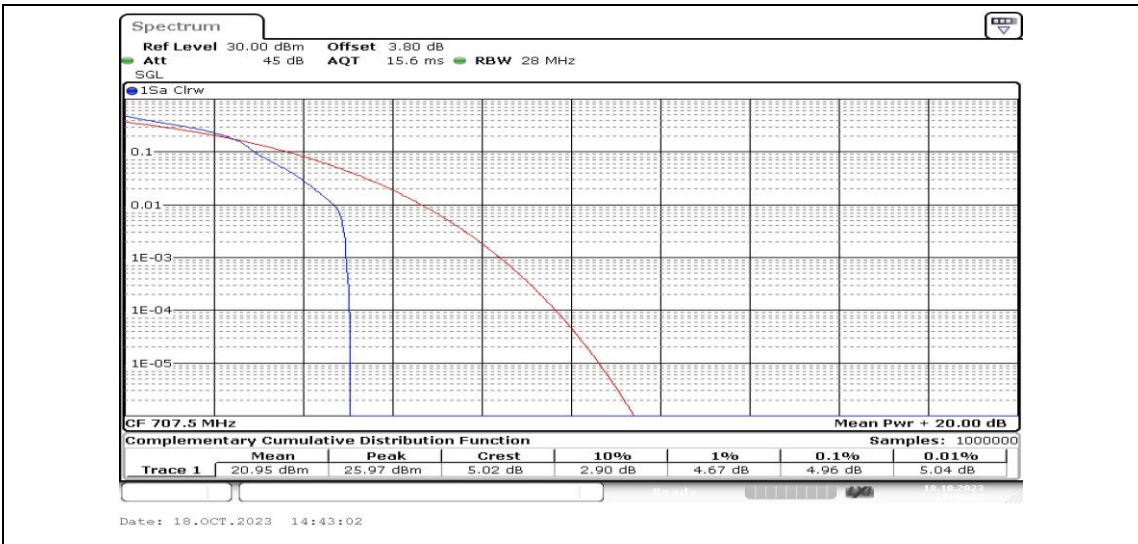
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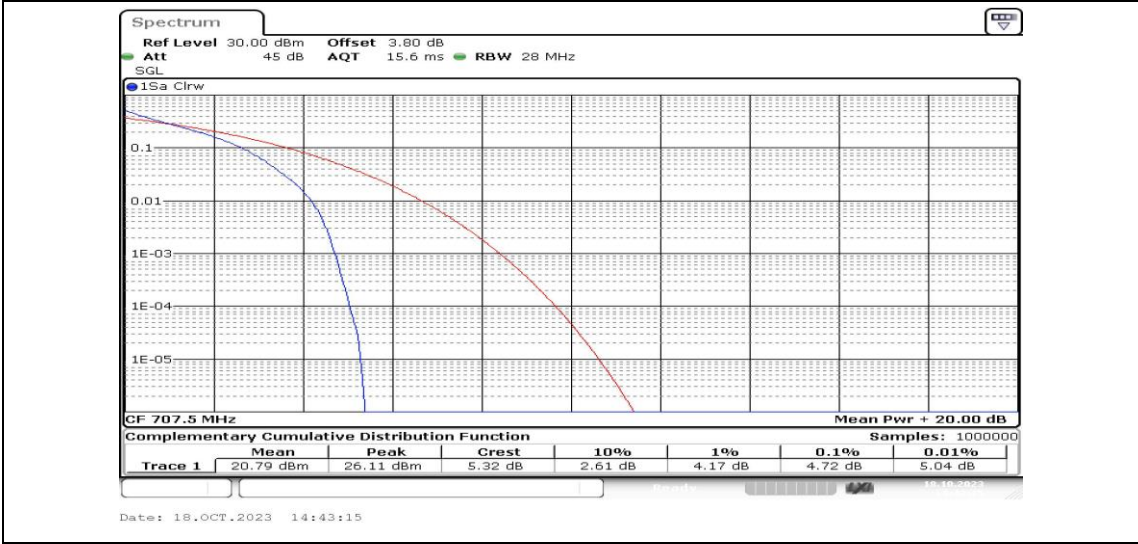
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Band12-1.4MHz-QPSK-23095-1RB#0-PASS



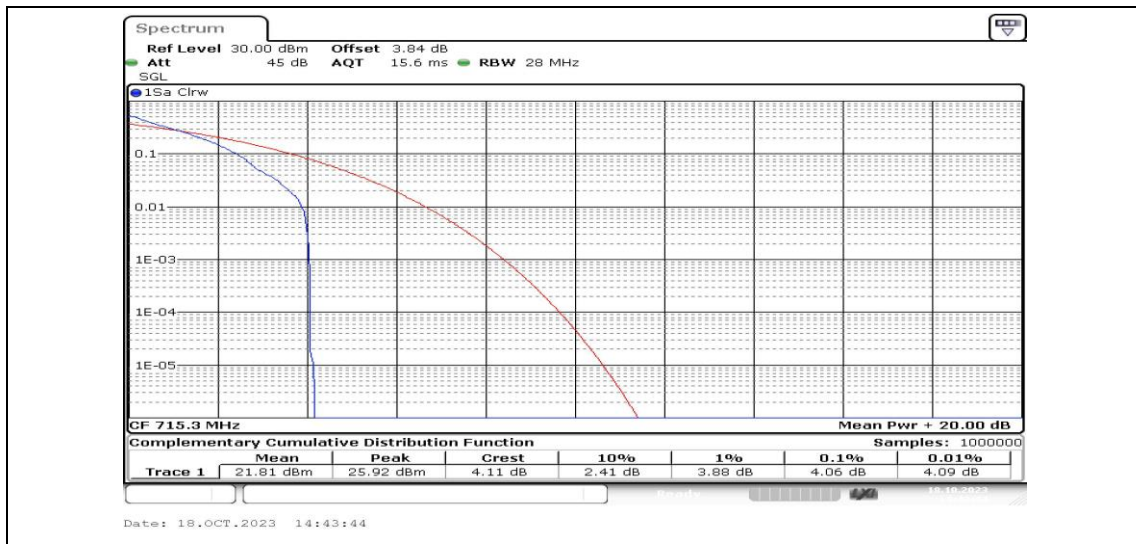
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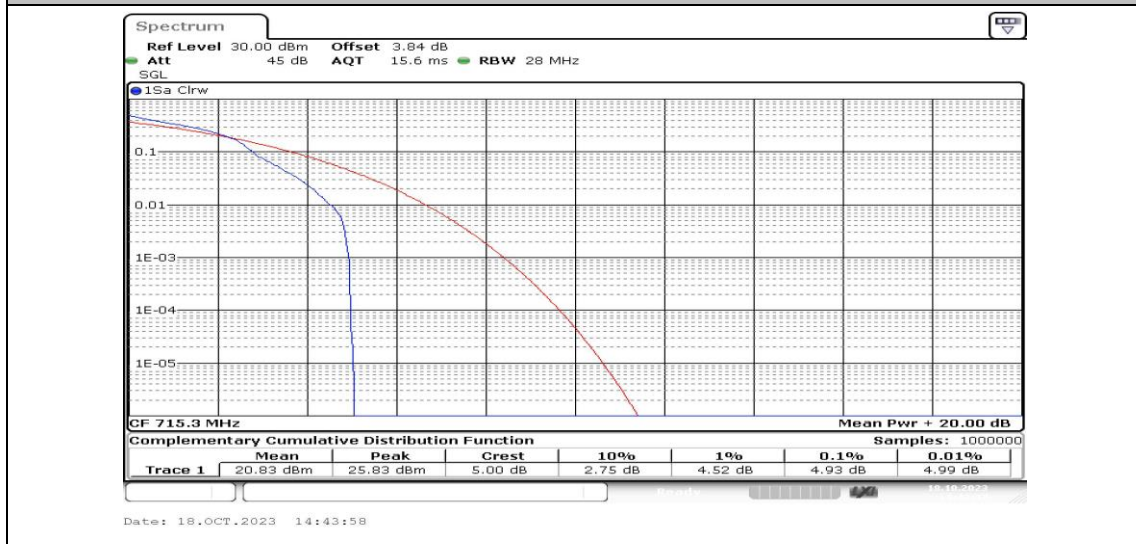
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Band12-1.4MHz-16QAM-23095-6RB#0-PASS



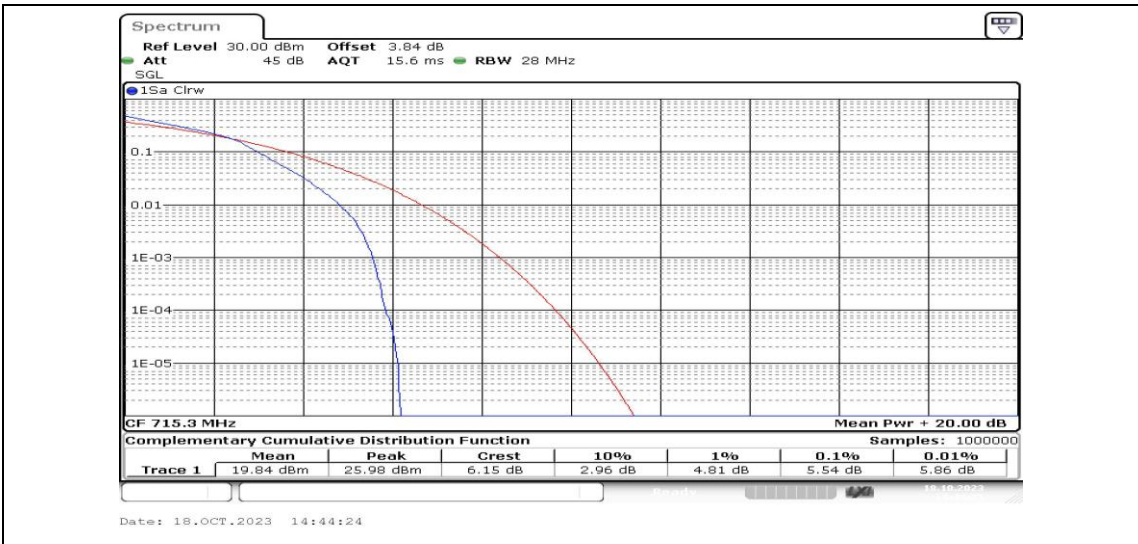
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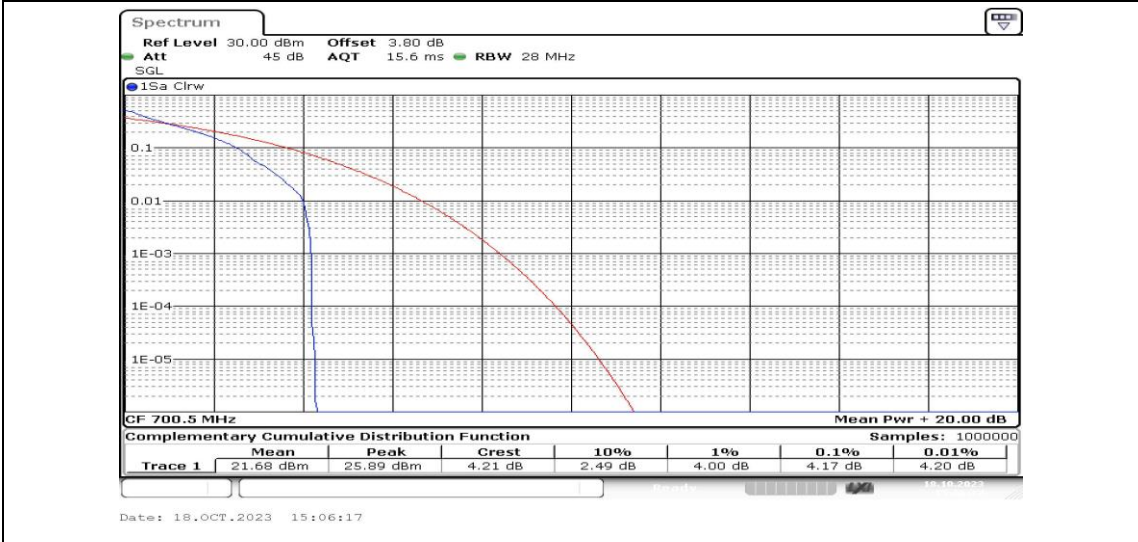
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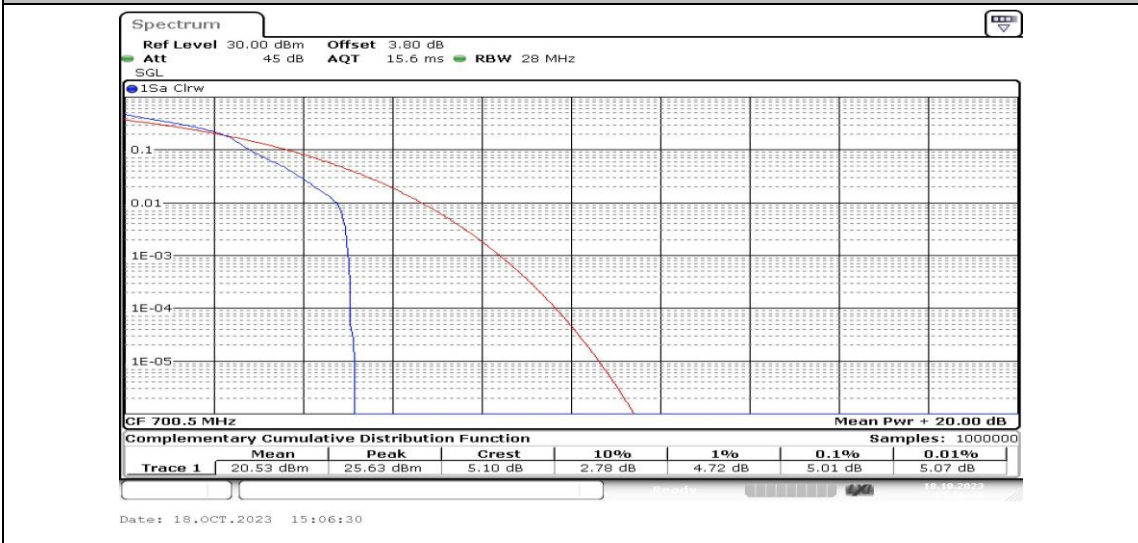
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Band12-1.4MHz-16QAM-23173-6RB#0-PASS



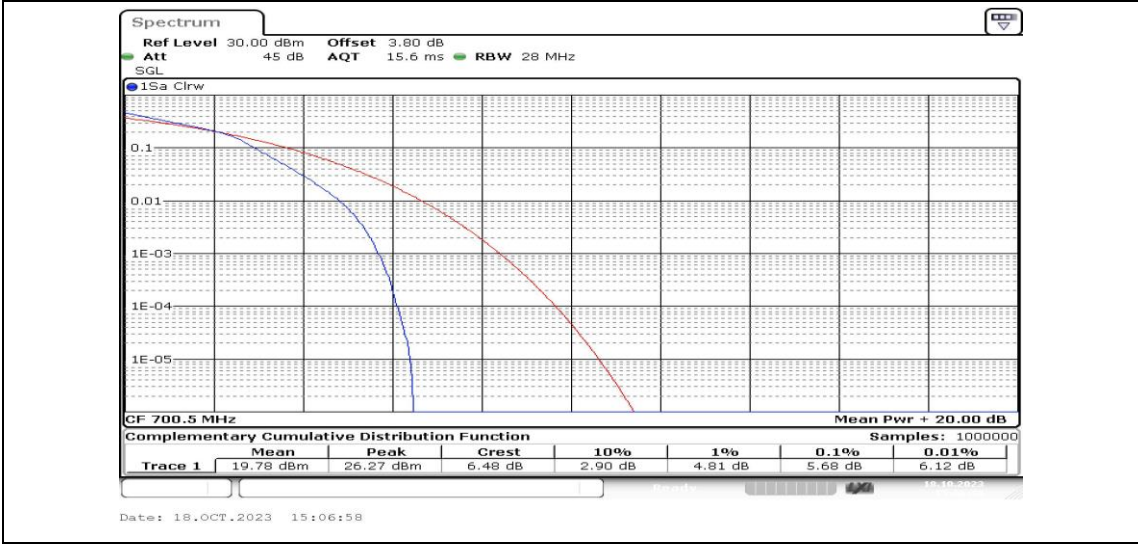
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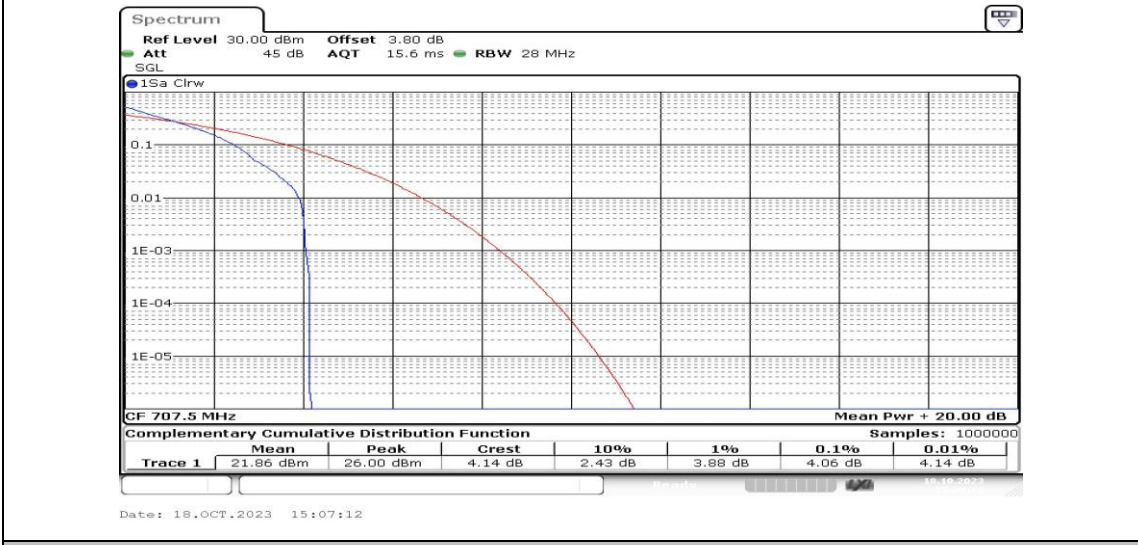
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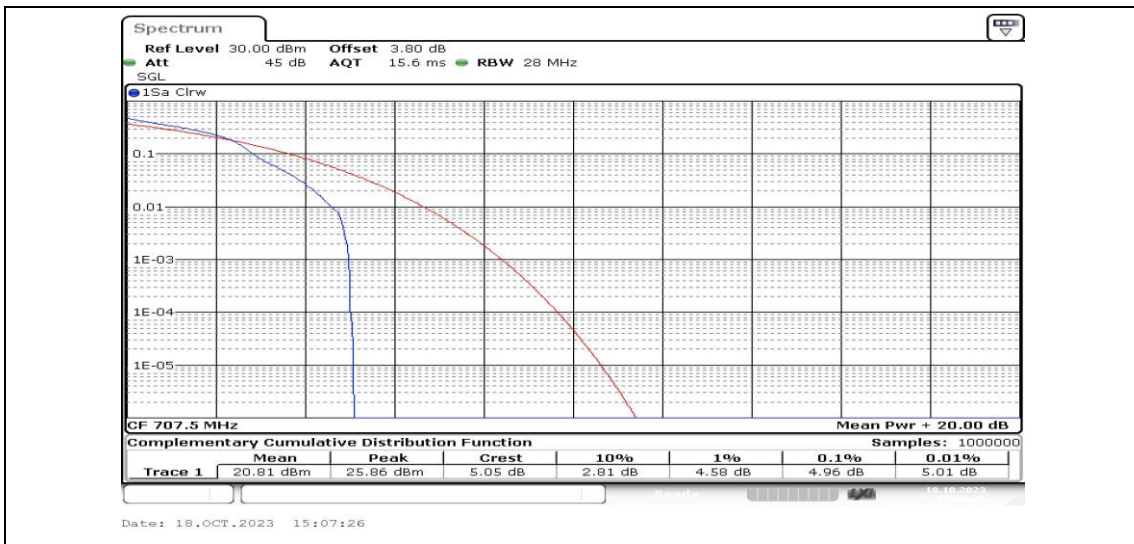
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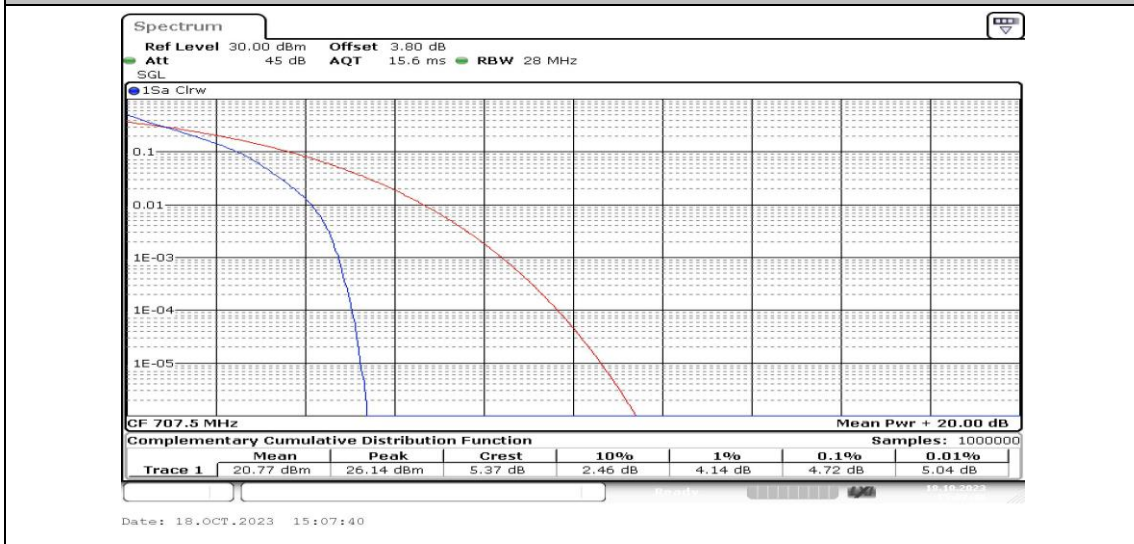
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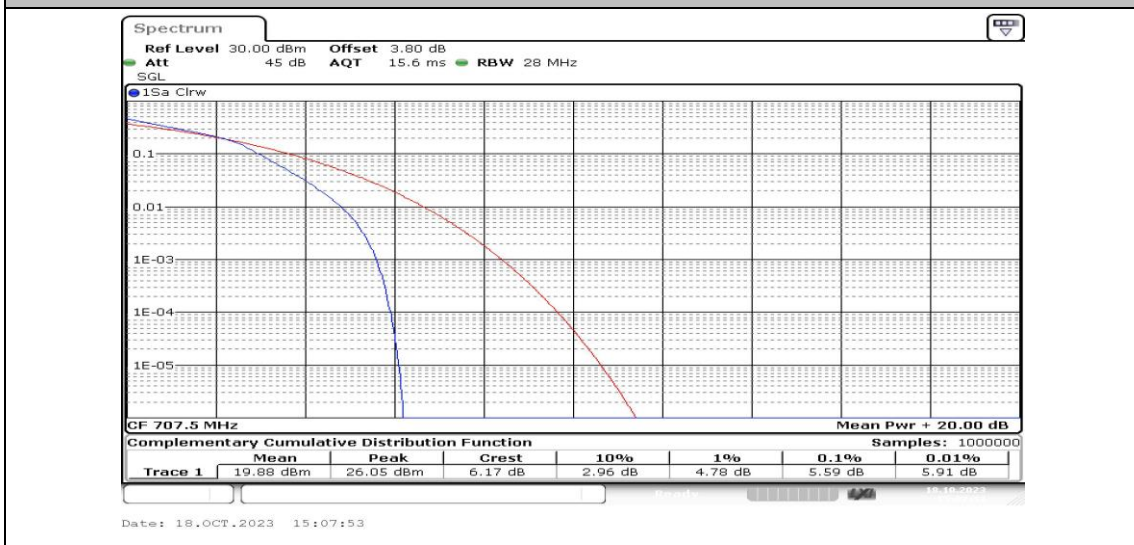
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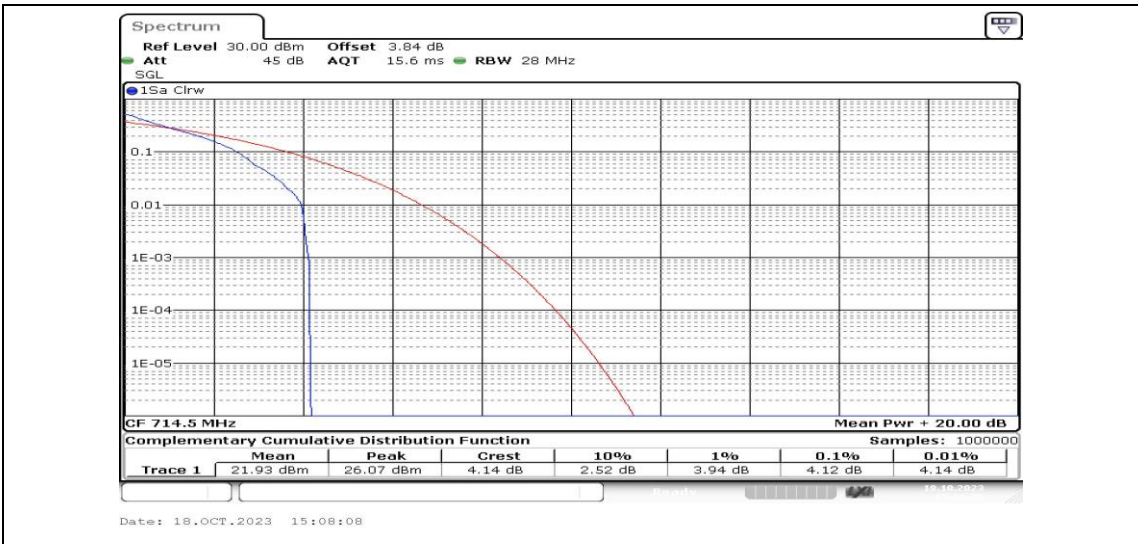
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Band12-3MHz-QPSK-23095-15RB#0-PASS



Band12-3MHz-16QAM-23095-15RB#0-PASS



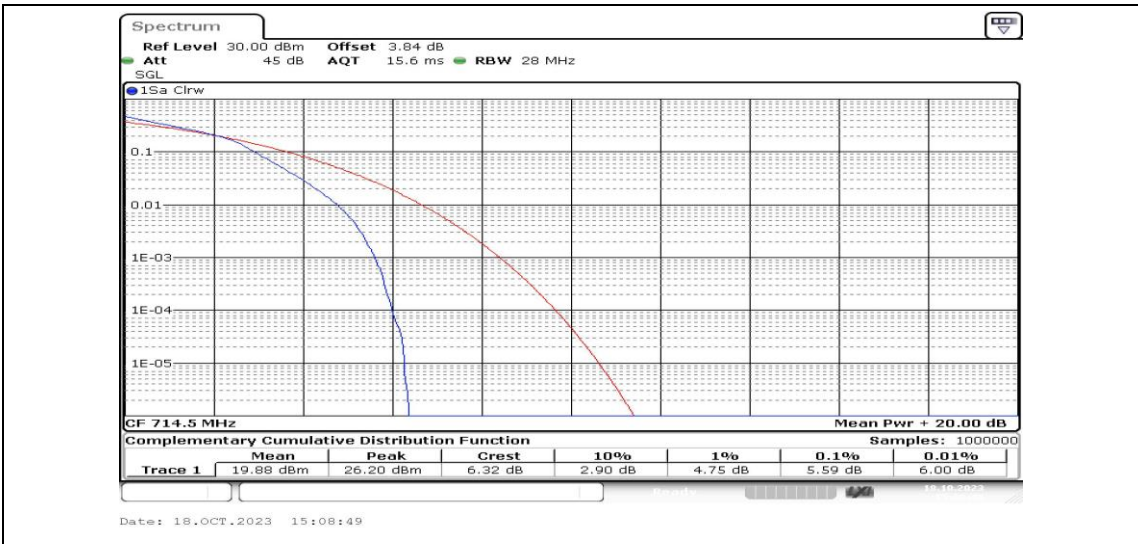
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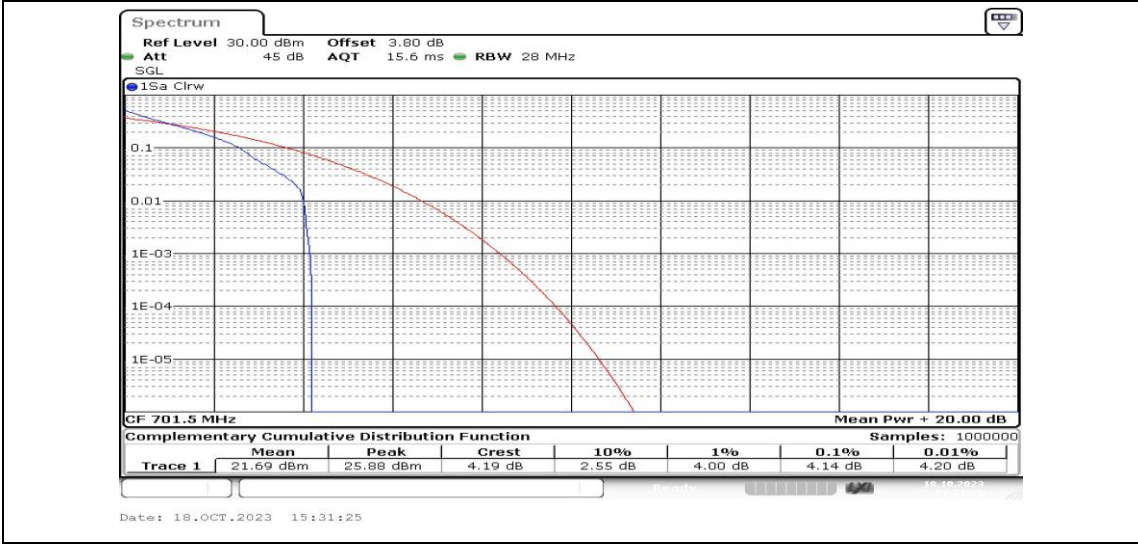
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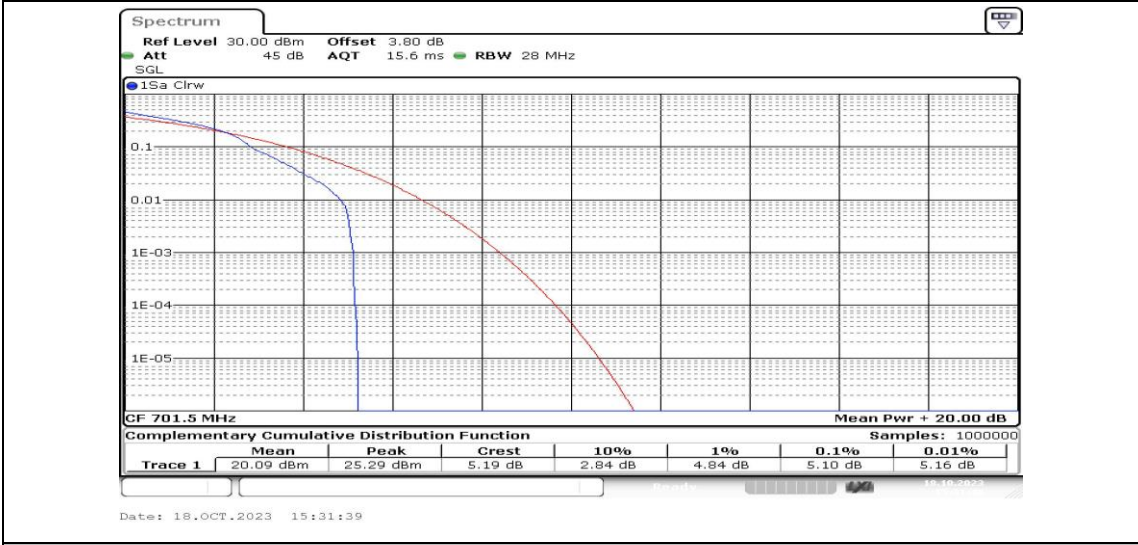
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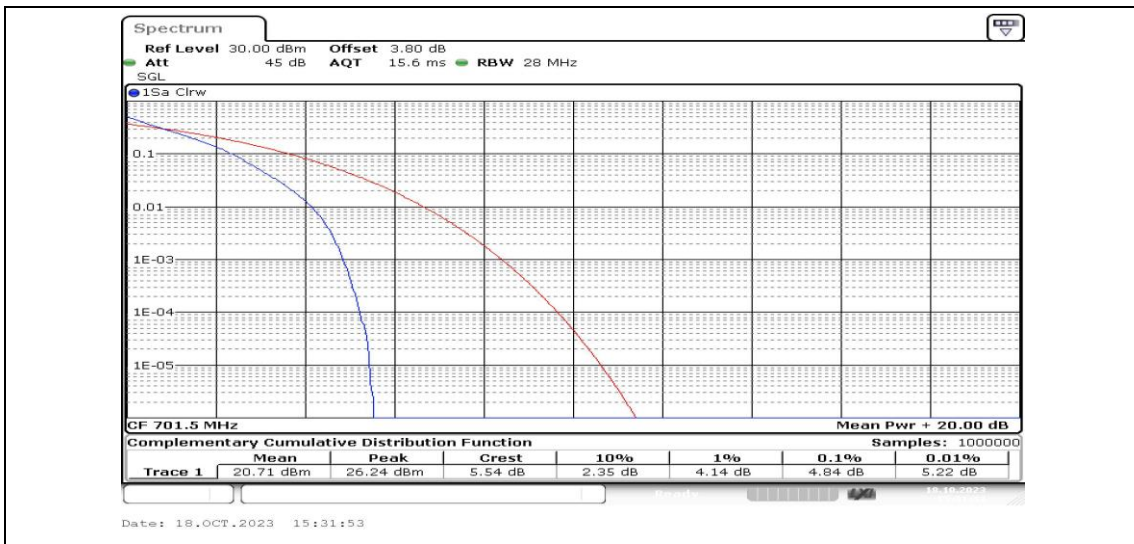
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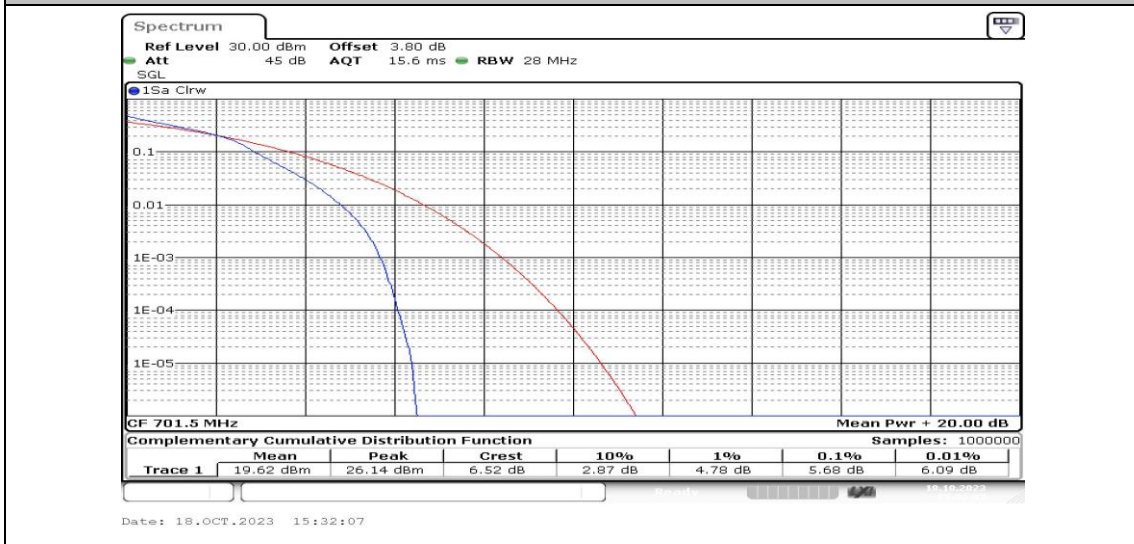
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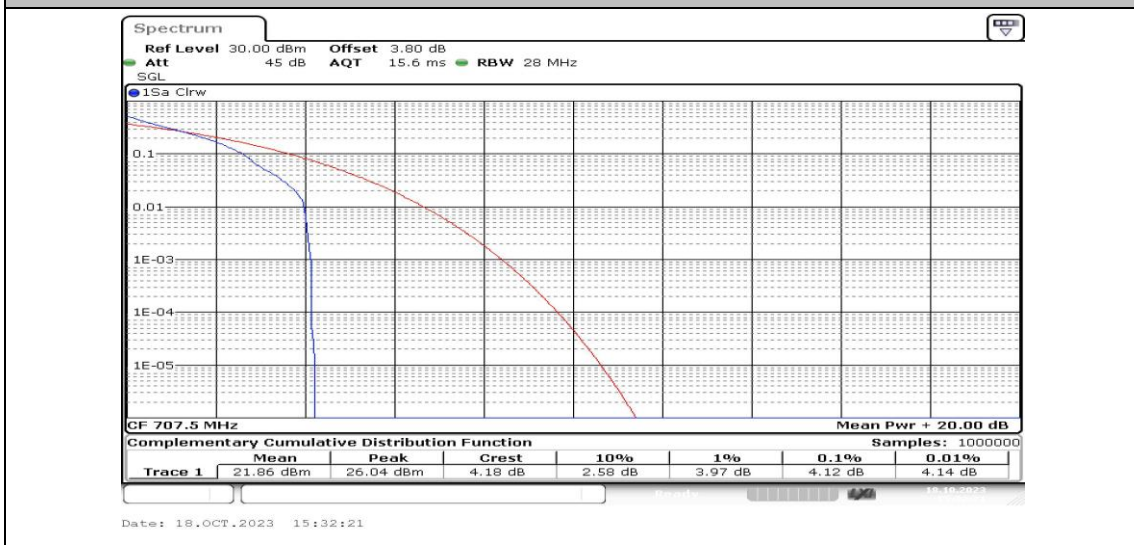
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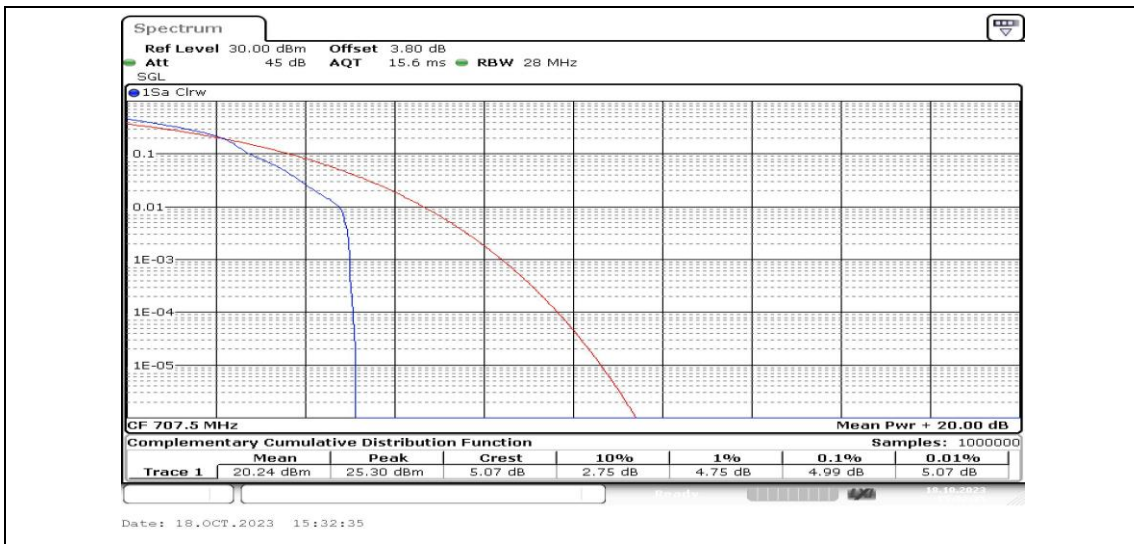
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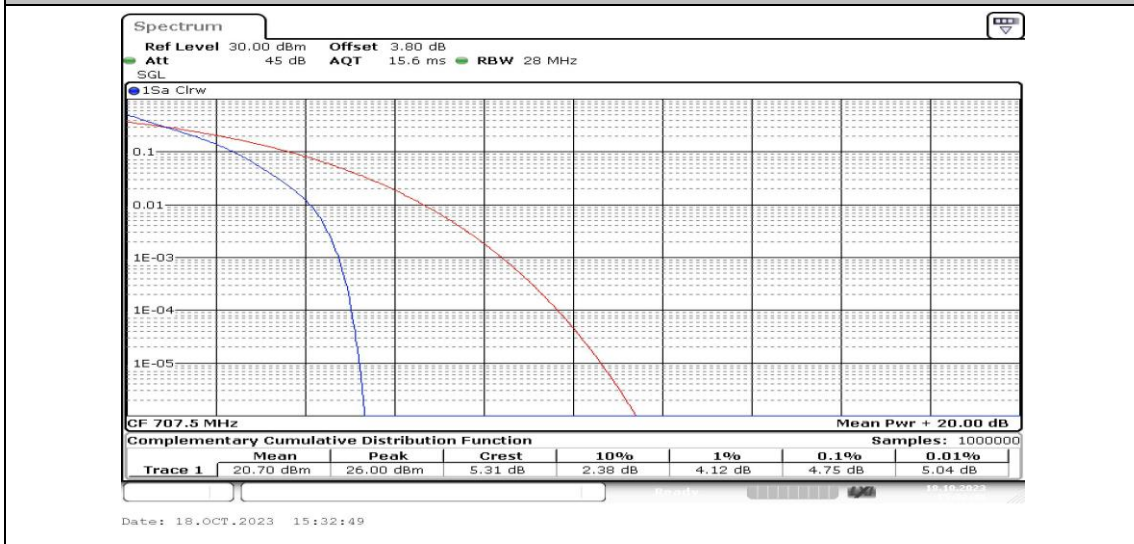
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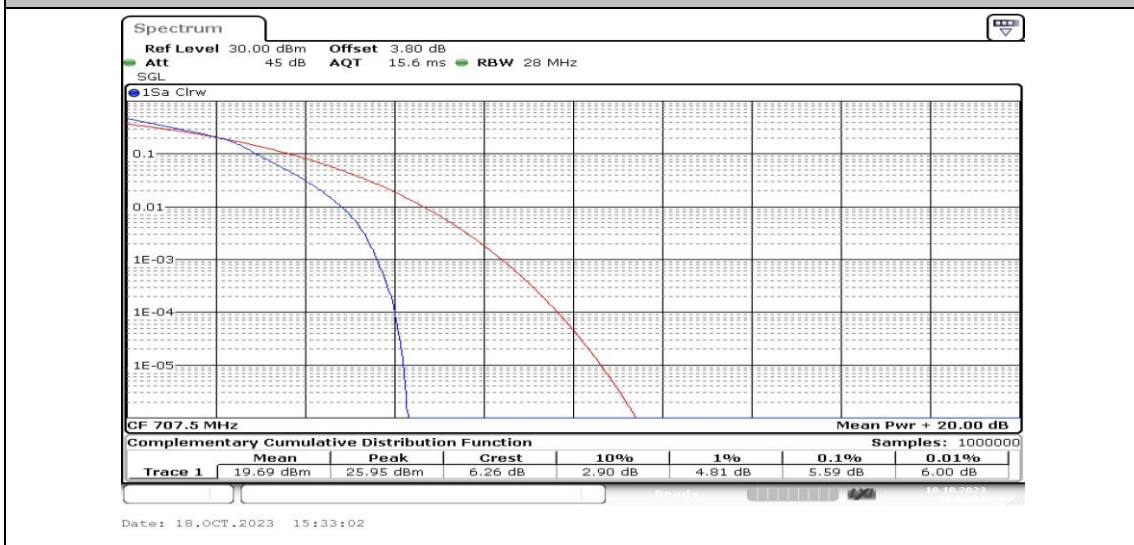
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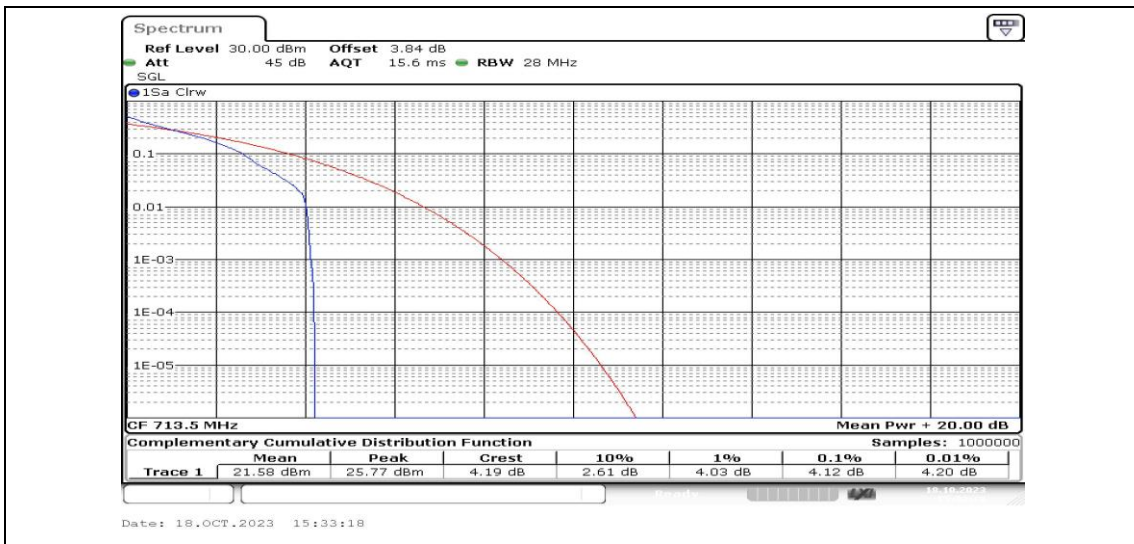
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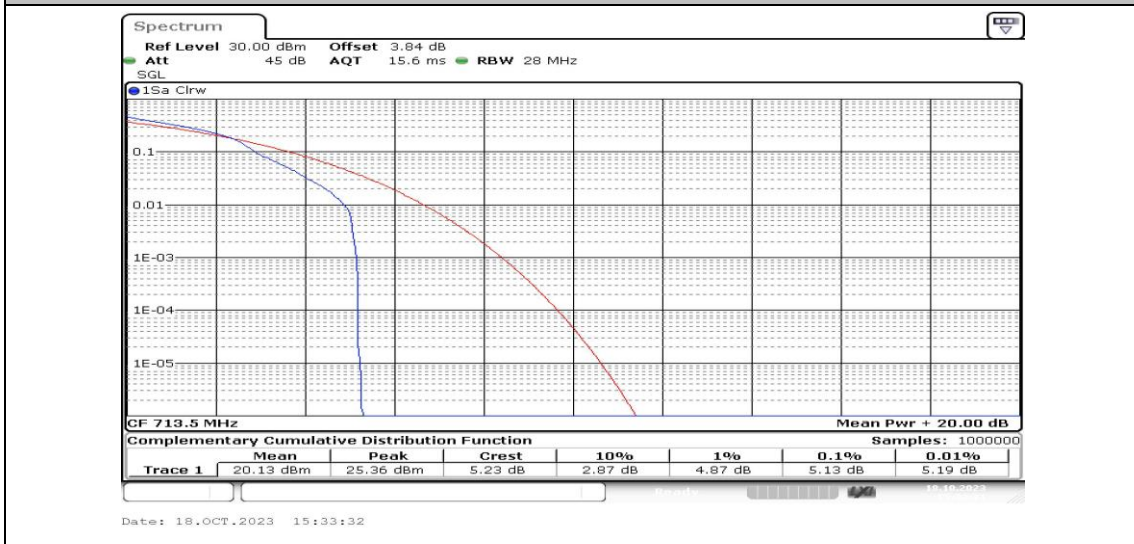
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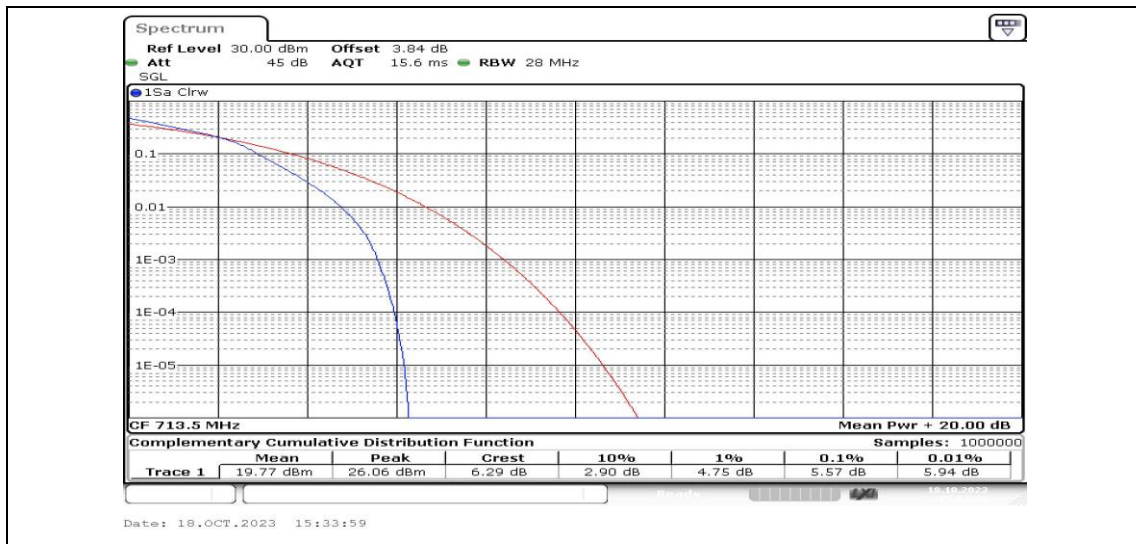
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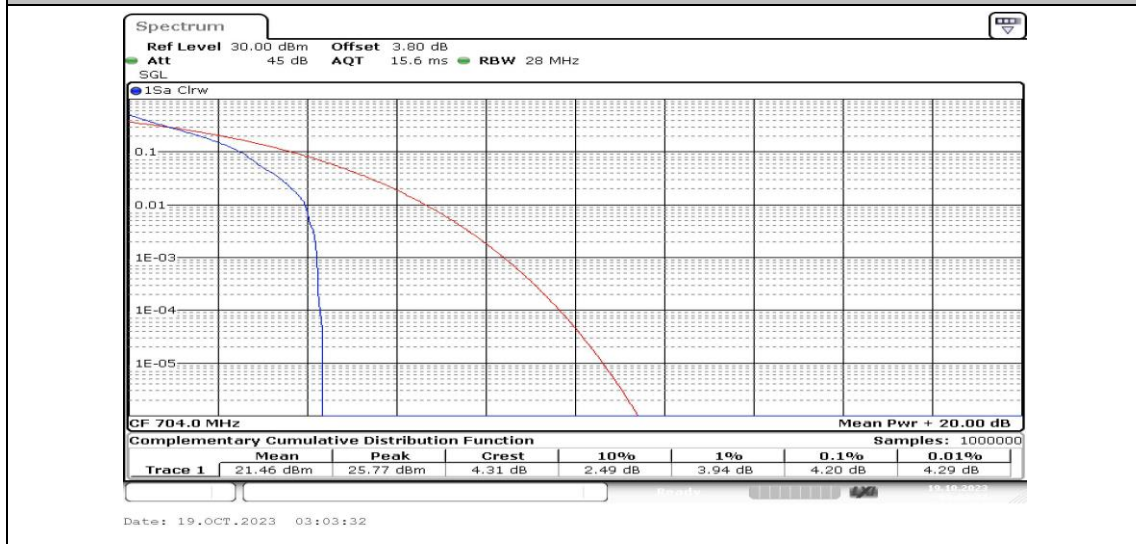
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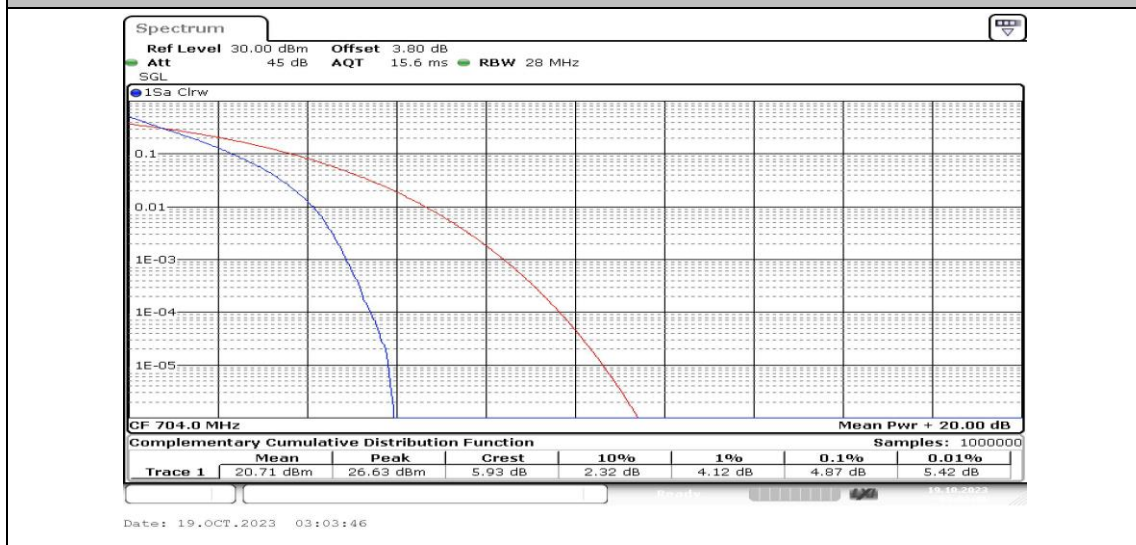
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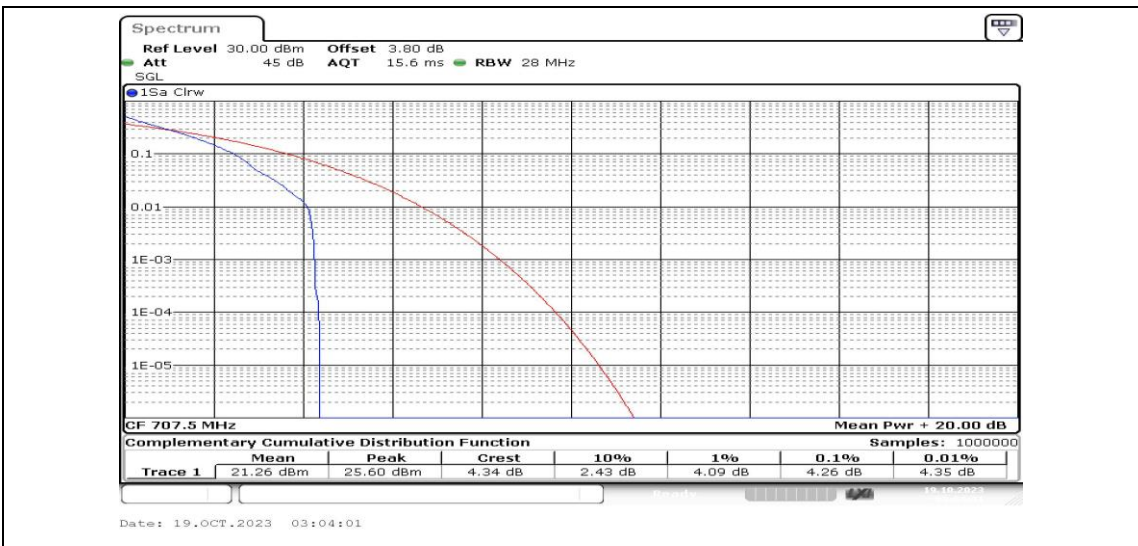
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Band12-10MHz-QPSK-23060-1RB#0-PASS



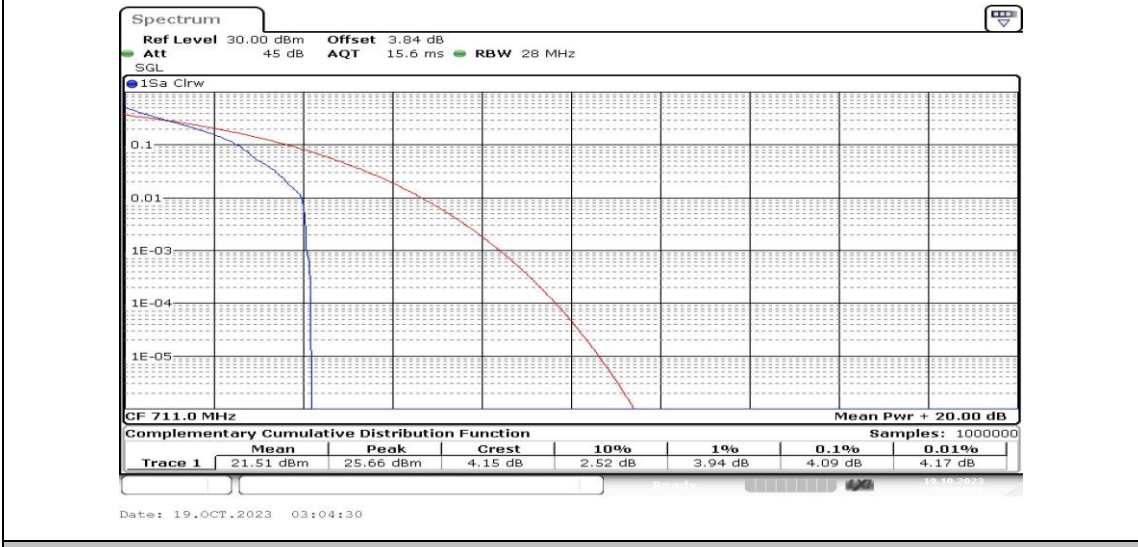
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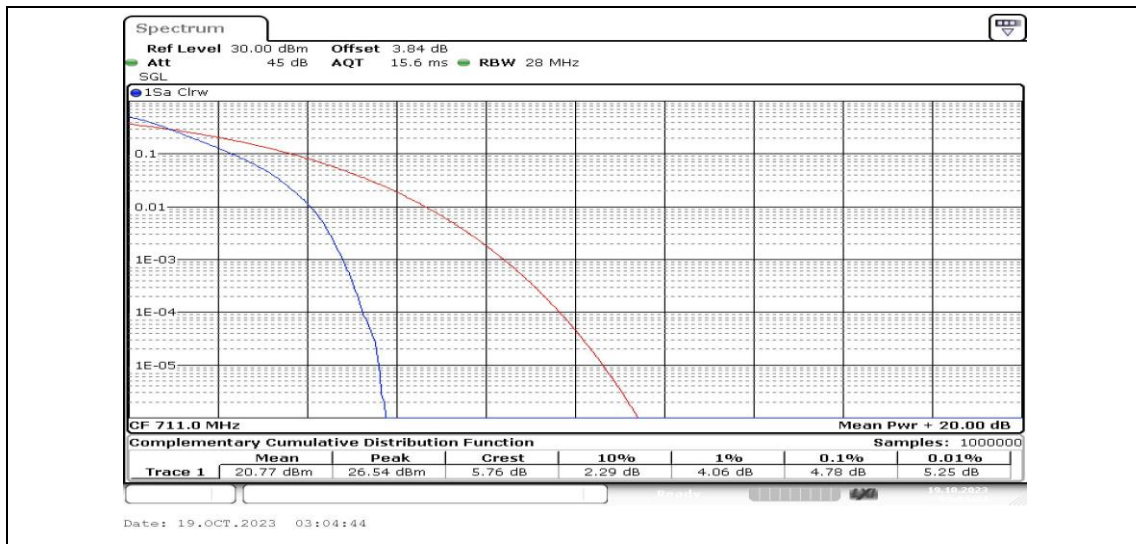
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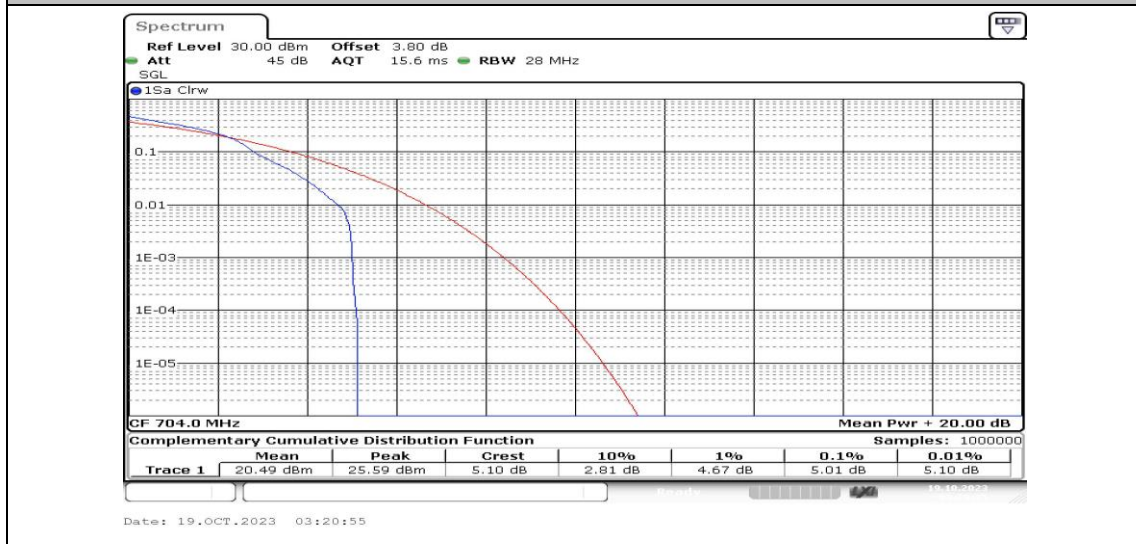
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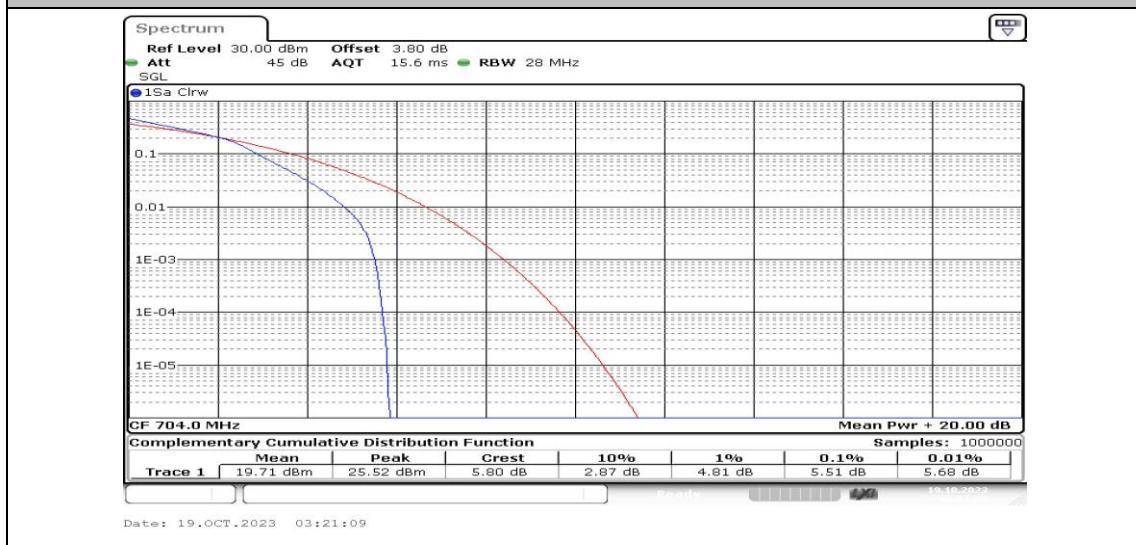
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Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-1RB#0-PASS



Band12-10MHz-16QAM-23060-25RB#0-PASS