

Appendix for Band 12

Product Name: Smart Phone

Model No: N3

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.22	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.22	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.19	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.25	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.26	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.22	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.25	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.22	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.17	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.19	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.28	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.26	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.24	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.19	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.17	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.09	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.22	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.22	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.18	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.26	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.31	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.39	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.30	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.14	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.15	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.14	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.28	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.38	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.43	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.41	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.16	PASS

Band12	1.4MHz	16QAM	23095	3RB#1	21.13	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.15	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.11	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.25	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.34	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.24	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.11	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.09	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.98	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.31	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.29	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.26	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.24	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.23	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.25	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.26	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.18	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.16	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.21	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.22	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.16	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.20	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.27	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.20	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.19	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.24	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.24	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.17	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.21	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.44	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.42	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.43	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.34	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.32	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.30	PASS

Band12	3MHz	16QAM	23025	15RB#0	21.27	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.46	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.36	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.30	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.25	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.22	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.17	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.11	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.13	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.14	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.10	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.26	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.26	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.23	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.14	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.43	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.43	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.36	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.25	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.27	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.26	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.25	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.34	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.32	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.28	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.27	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.25	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.18	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.23	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.36	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.35	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.41	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.30	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.26	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.20	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.27	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.36	PASS

Band12	5MHz	16QAM	23035	1RB#12	21.33	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.28	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.23	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.23	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.22	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.27	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.51	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.53	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.50	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.28	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.27	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.23	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.19	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.34	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.27	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.33	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.28	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.32	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.23	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.29	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.38	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.24	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.26	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.24	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.22	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.30	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.29	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.23	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.25	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.18	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.25	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.27	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.22	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.26	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.47	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.26	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.24	PASS

Band12	10MHz	QPSK	23130	25RB#0	21.27	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.28	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.17	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.26	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.50	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.37	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.41	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.22	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.23	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.29	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.26	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.44	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.41	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.36	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.30	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.31	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.24	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.27	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.24	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.15	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.14	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.32	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.33	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.20	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.22	PASS

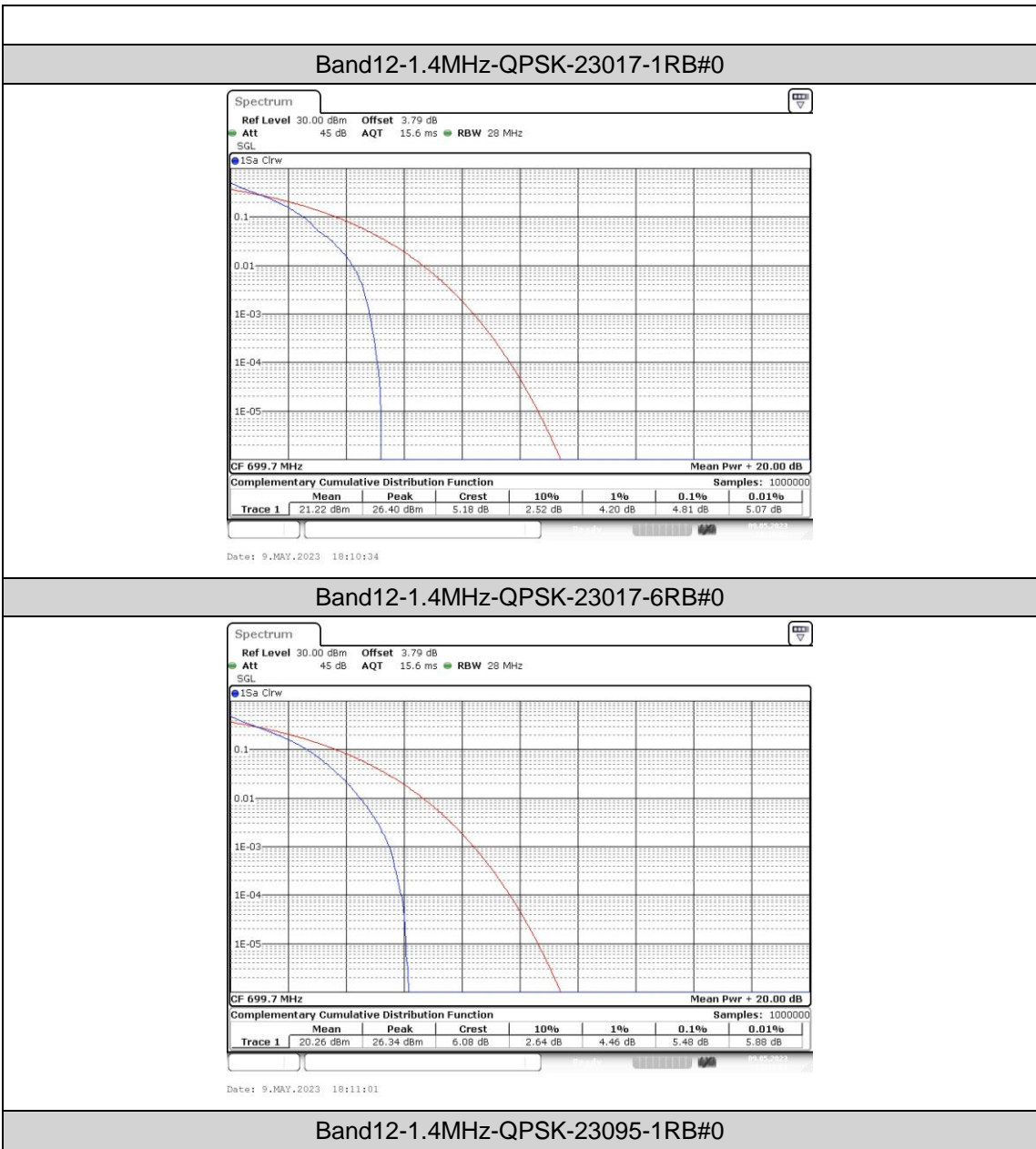
Appendix B: Peak-to-Average Ratio(CCDF)

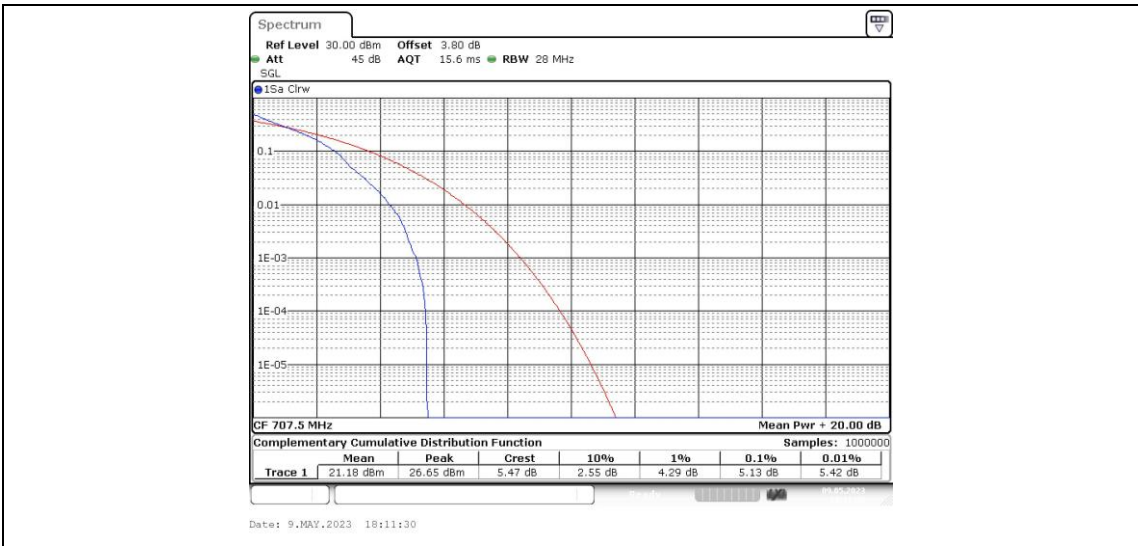
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.81	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.48	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	5.13	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.51	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.72	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	5.36	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.51	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.26	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	6.03	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.23	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	5.42	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	6.17	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.93	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.51	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.84	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.51	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.96	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.45	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.86	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.35	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.32	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.88	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.26	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.13	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.54	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.99	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.51	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	5.28	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.48	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.77	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.23	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.68	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.26	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.80	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.20	13	PASS

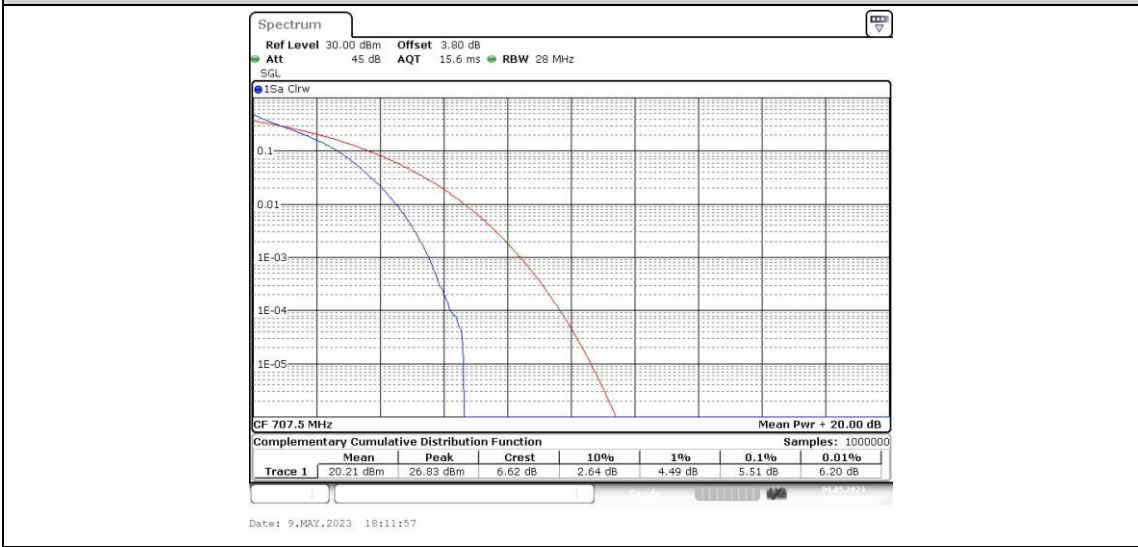
Band12	10MHz	QPSK	23060	1RB#0	4.93	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.51	13	PASS
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Band12	10MHz	QPSK	23095	50RB#0	5.45	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.01	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.48	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.80	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.26	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.62	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.29	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.83	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.26	13	PASS

Test Graphs

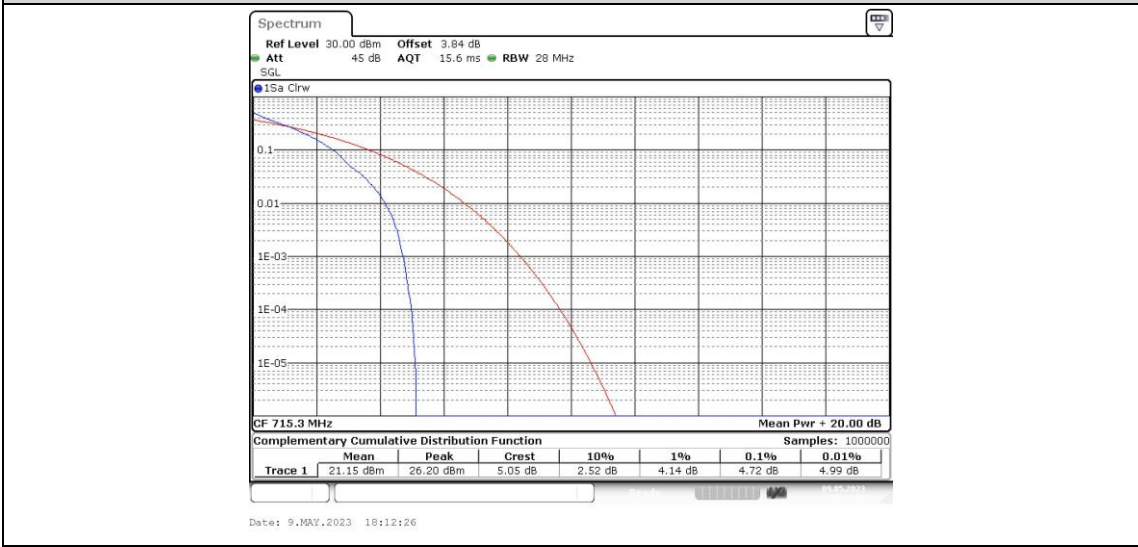




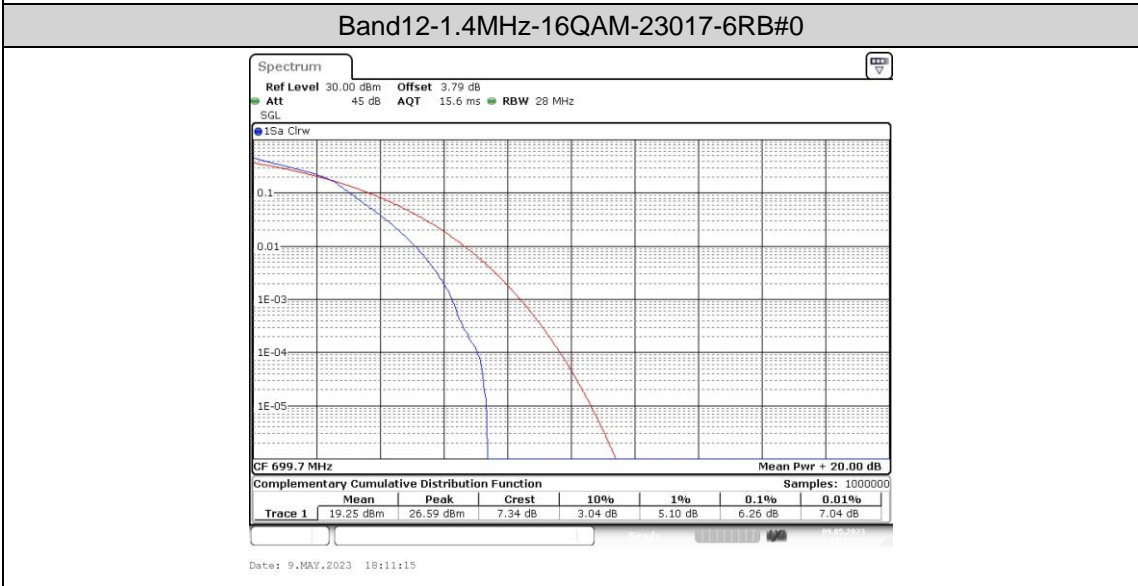
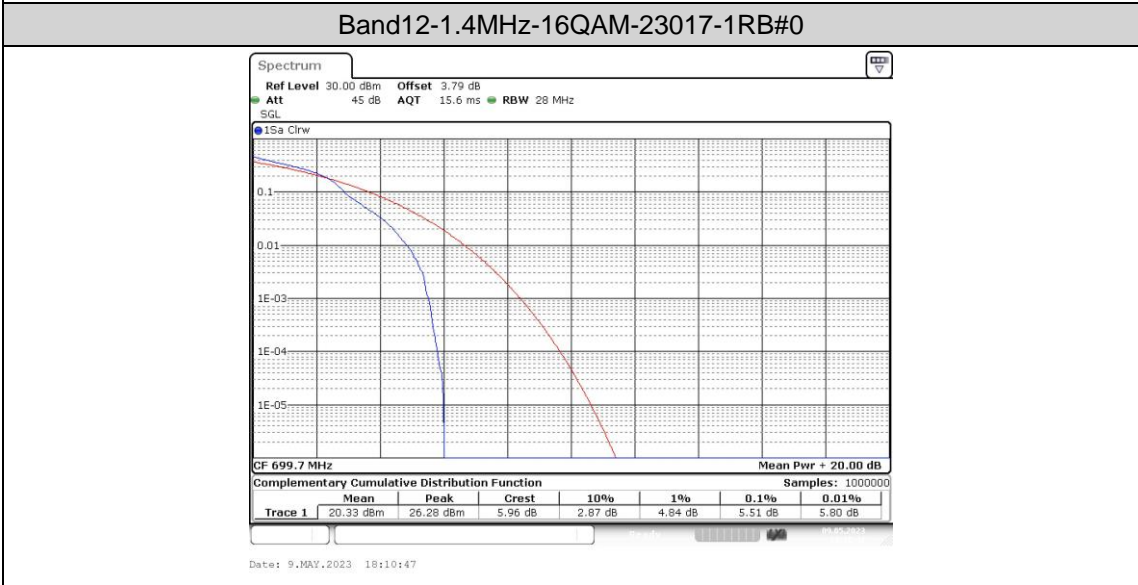
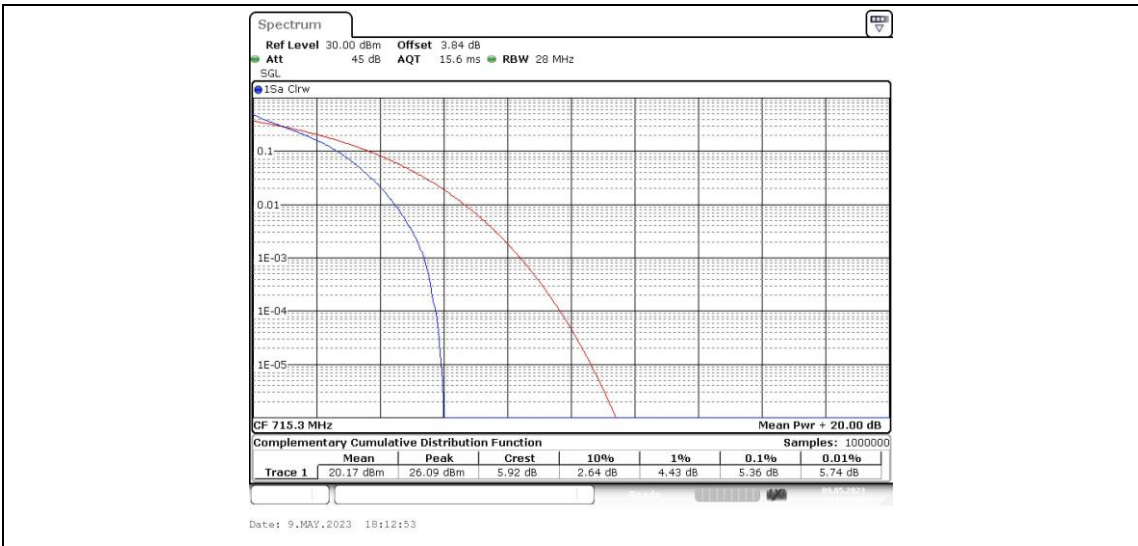
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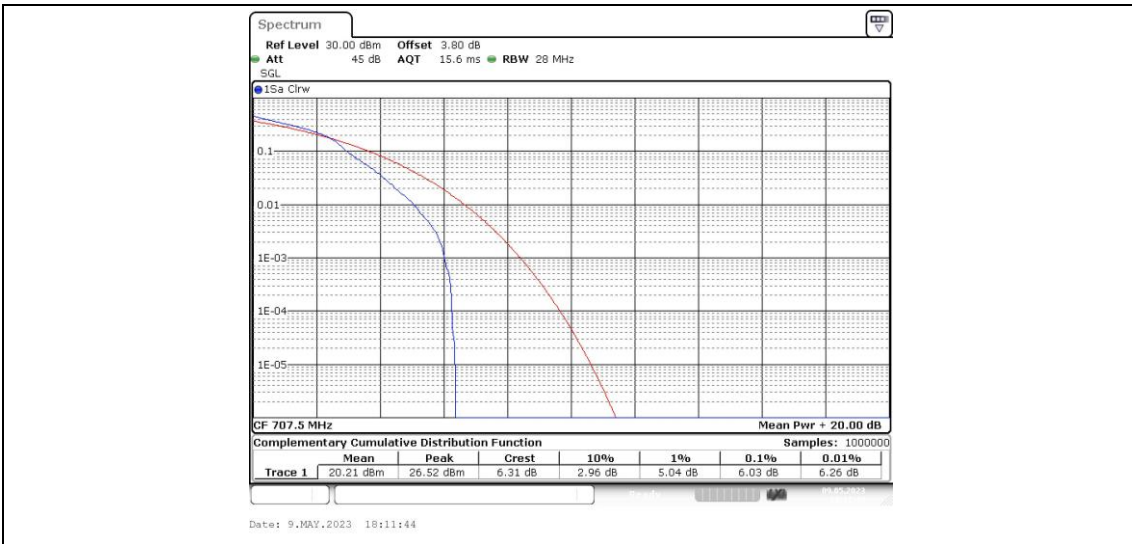


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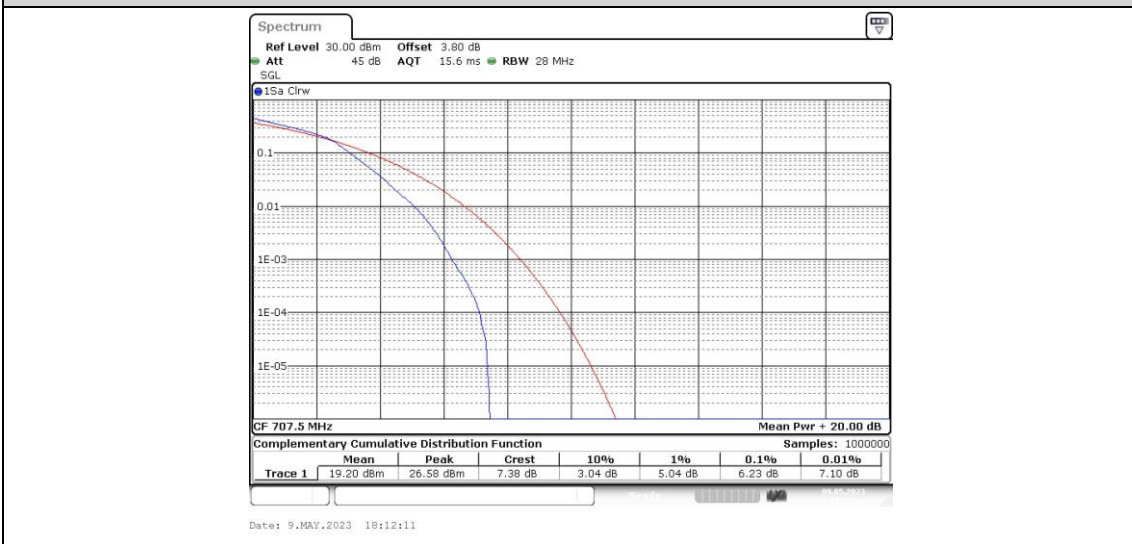


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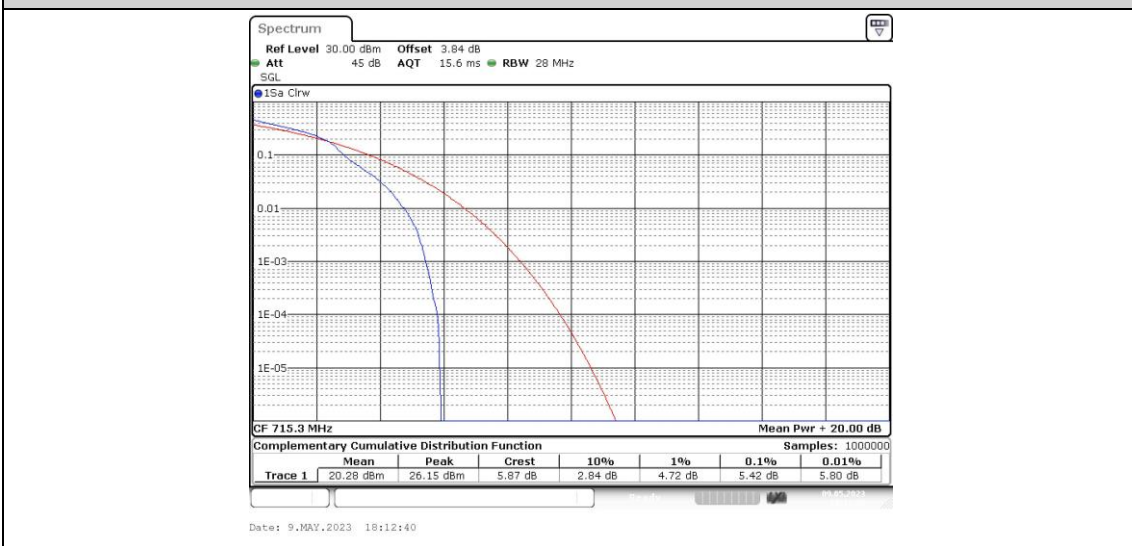




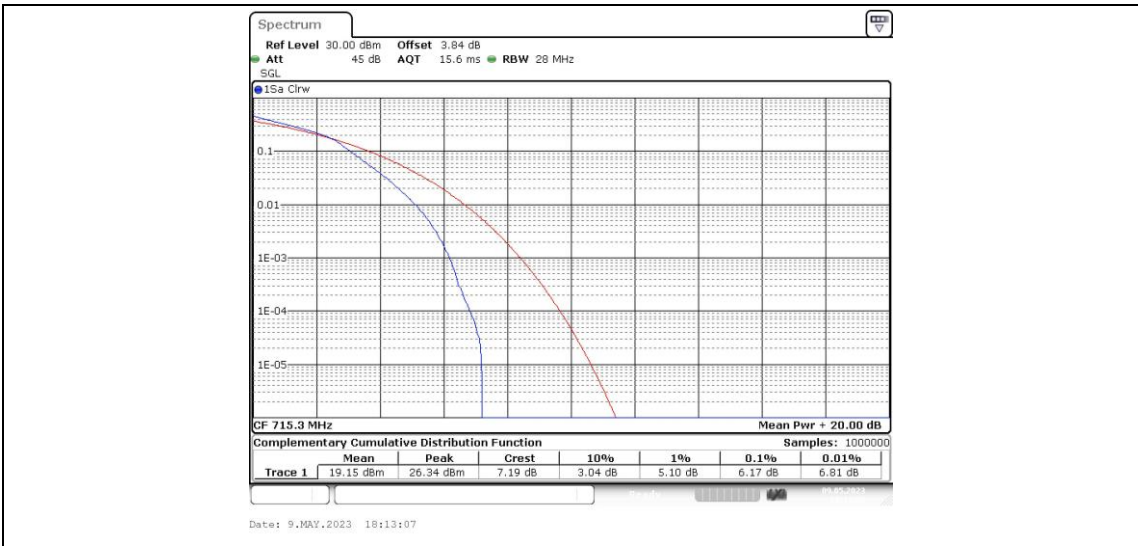
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Band12-1.4MHz-16QAM-23173-1RB#0



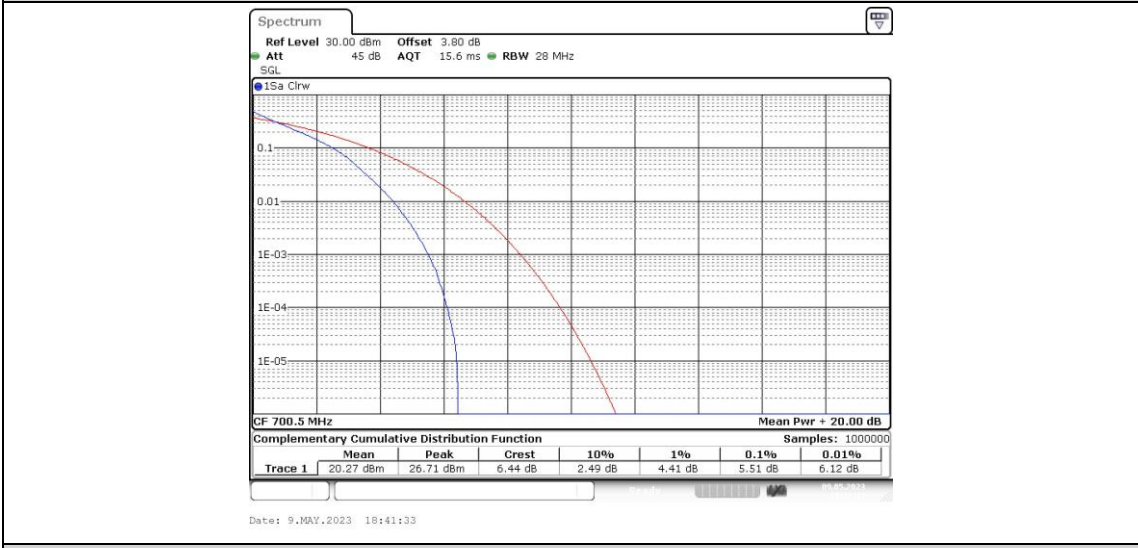
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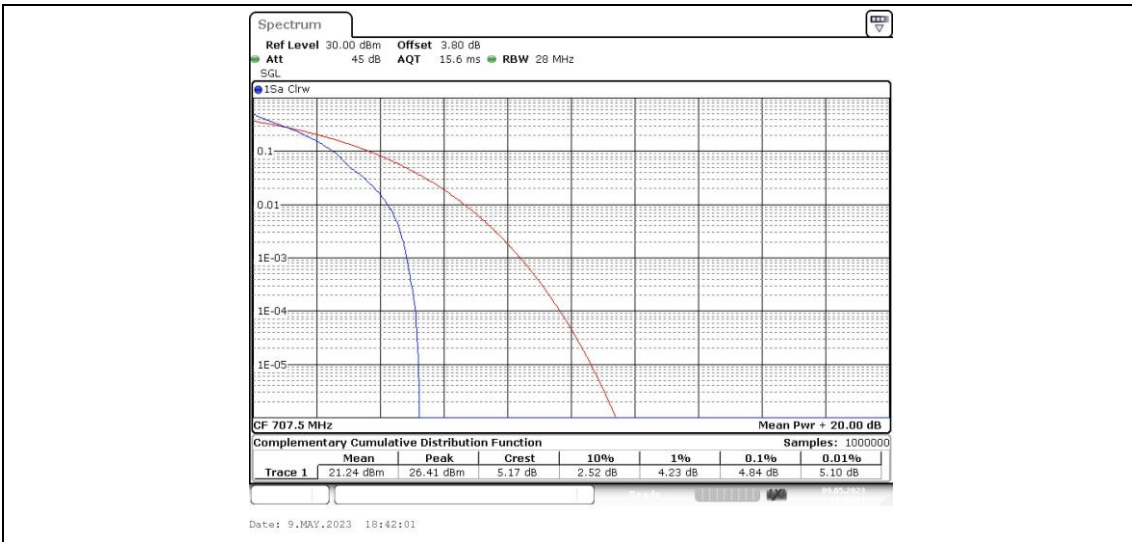
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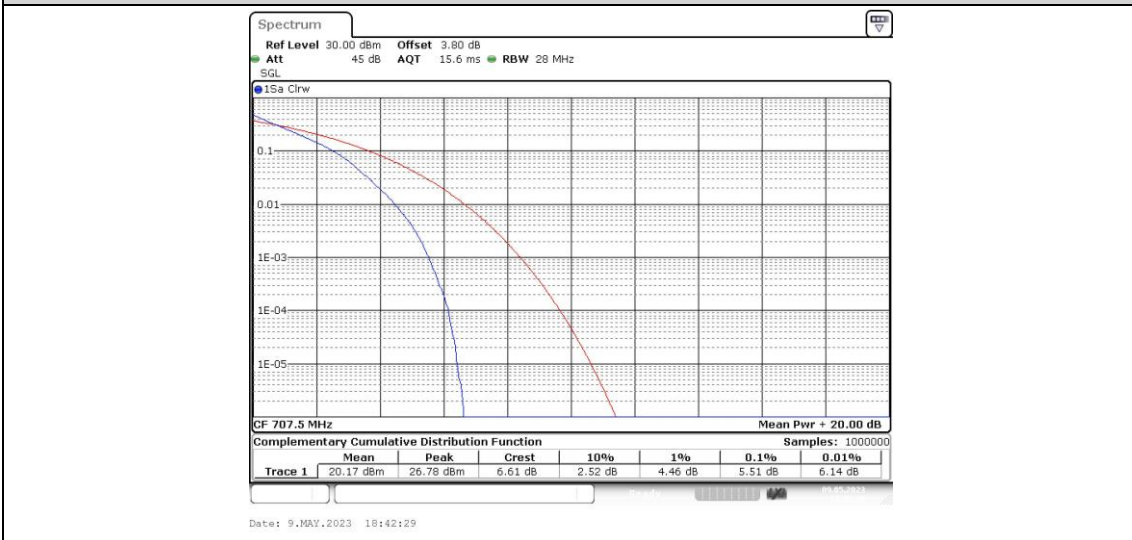
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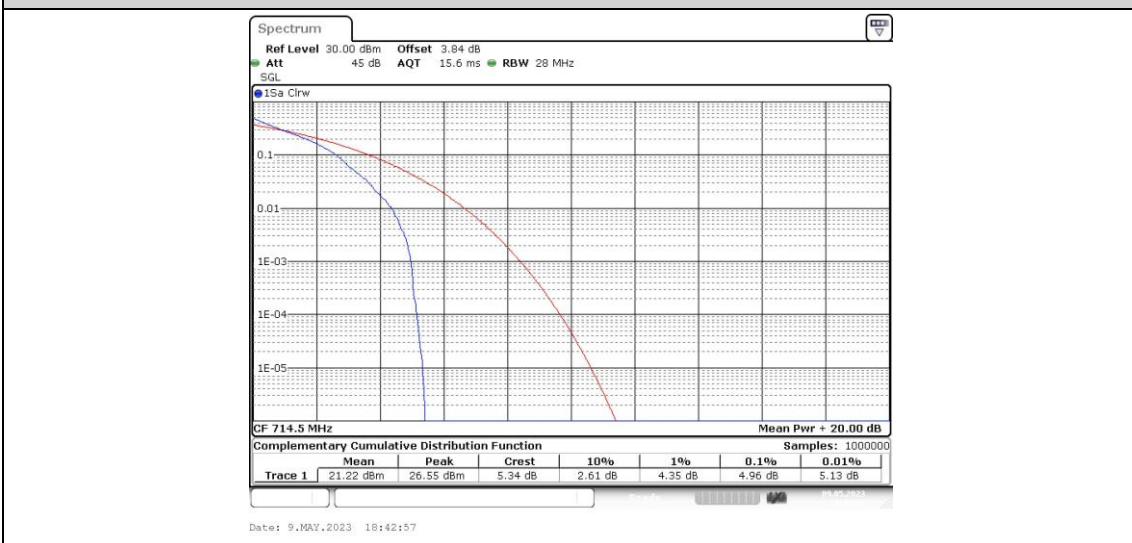
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Band12-3MHz-QPSK-23095-15RB#0



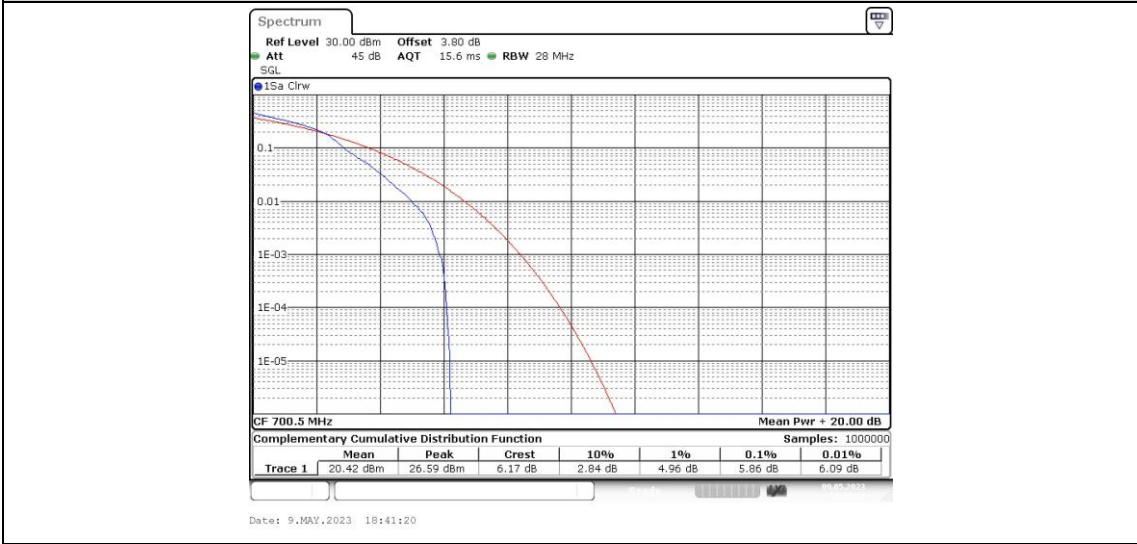
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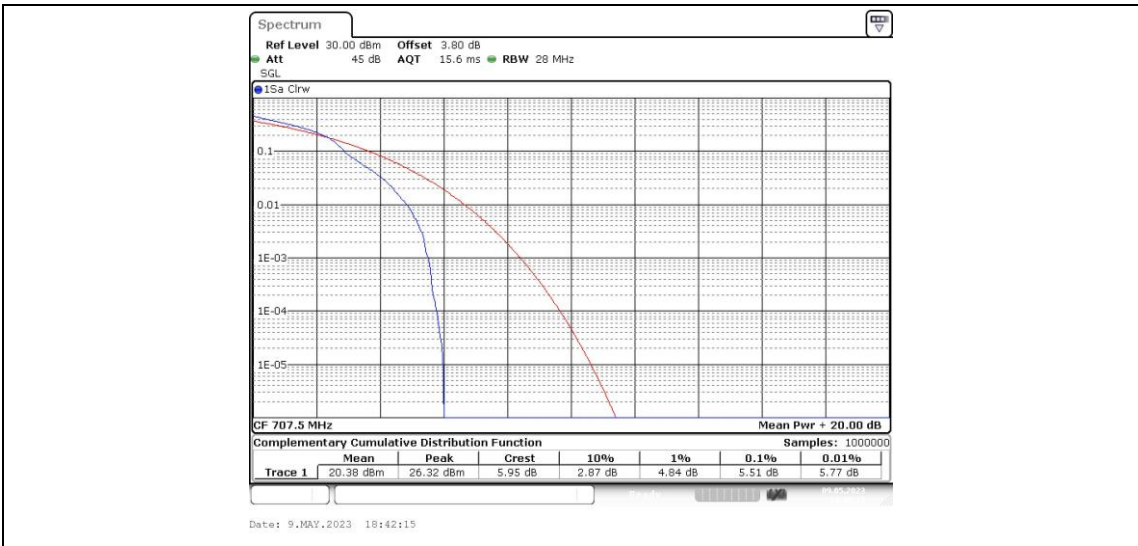
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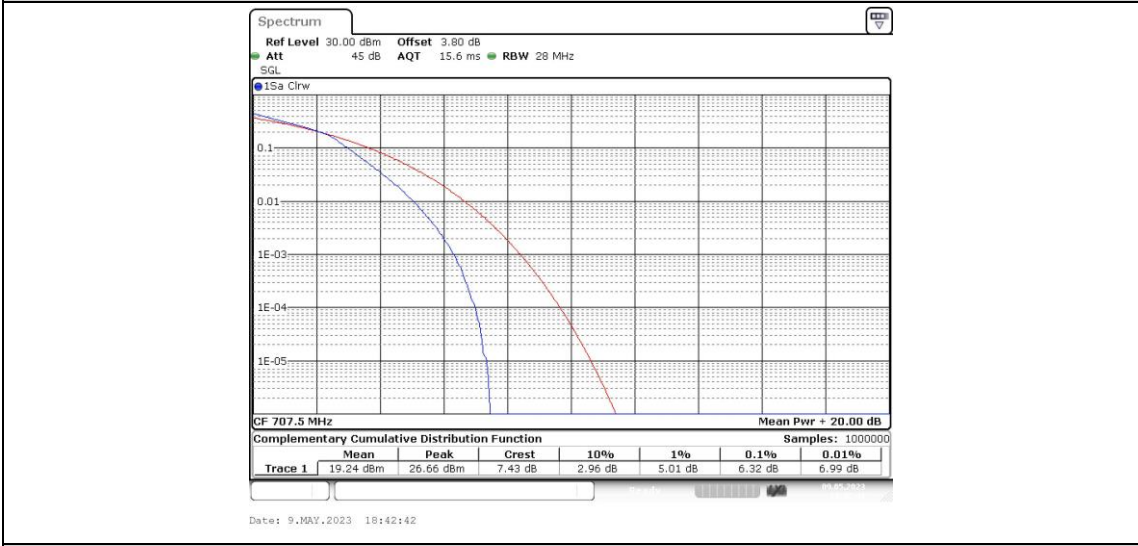
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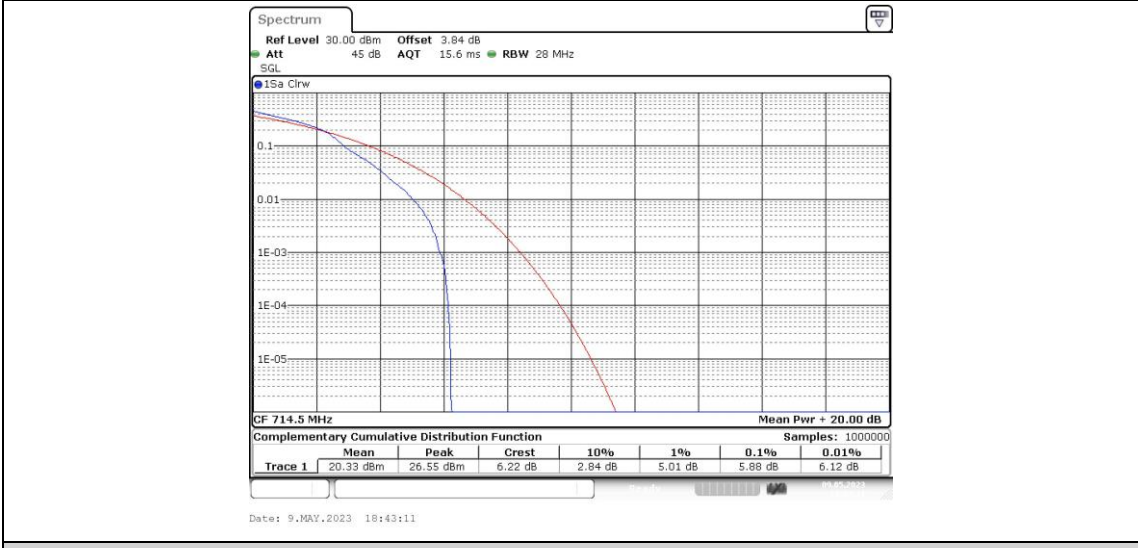
Band12-3MHz-16QAM-23095-1RB#0



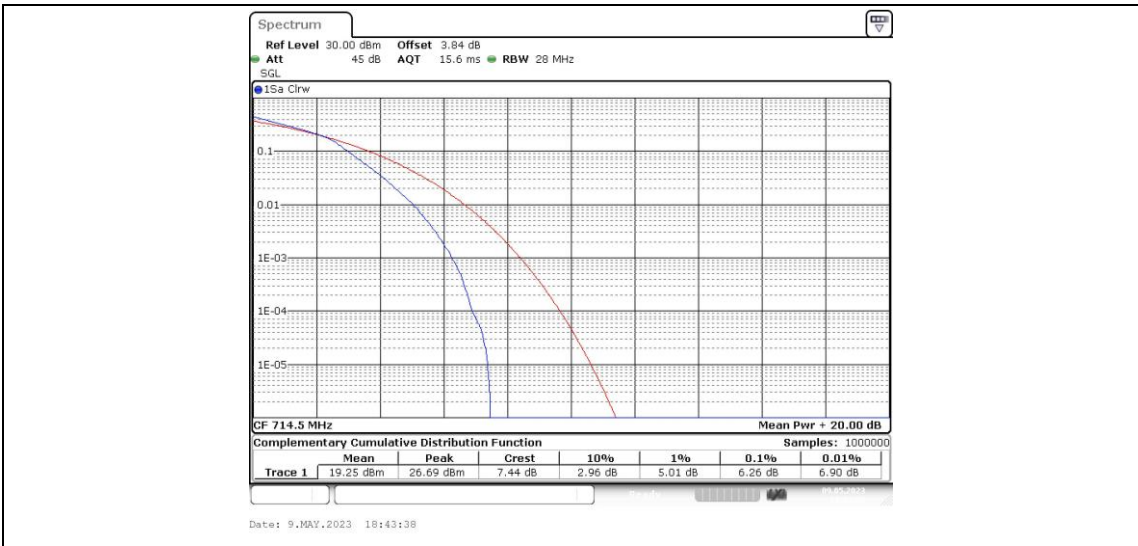
Band12-3MHz-16QAM-23095-15RB#0



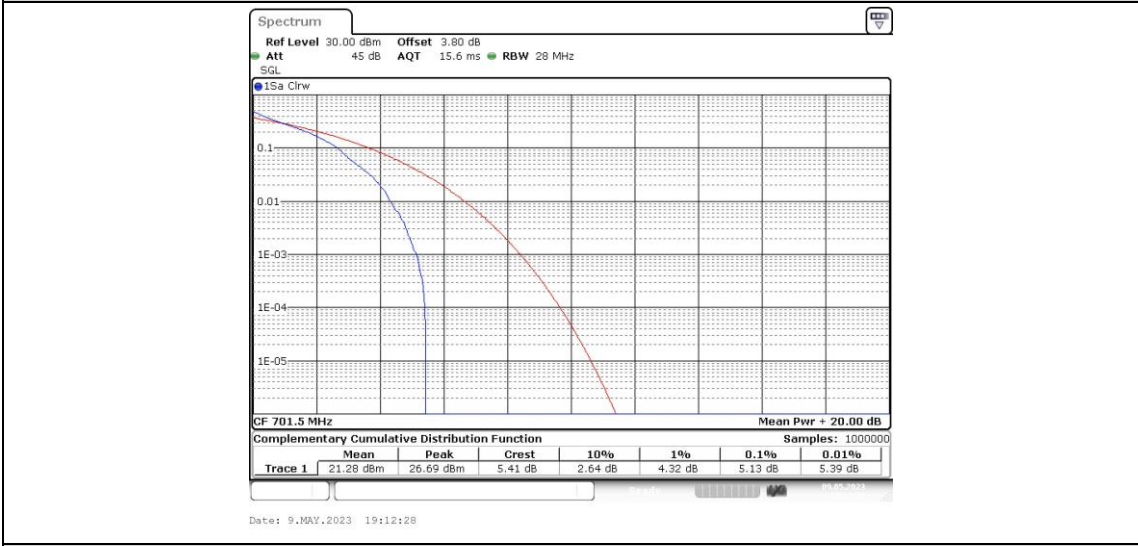
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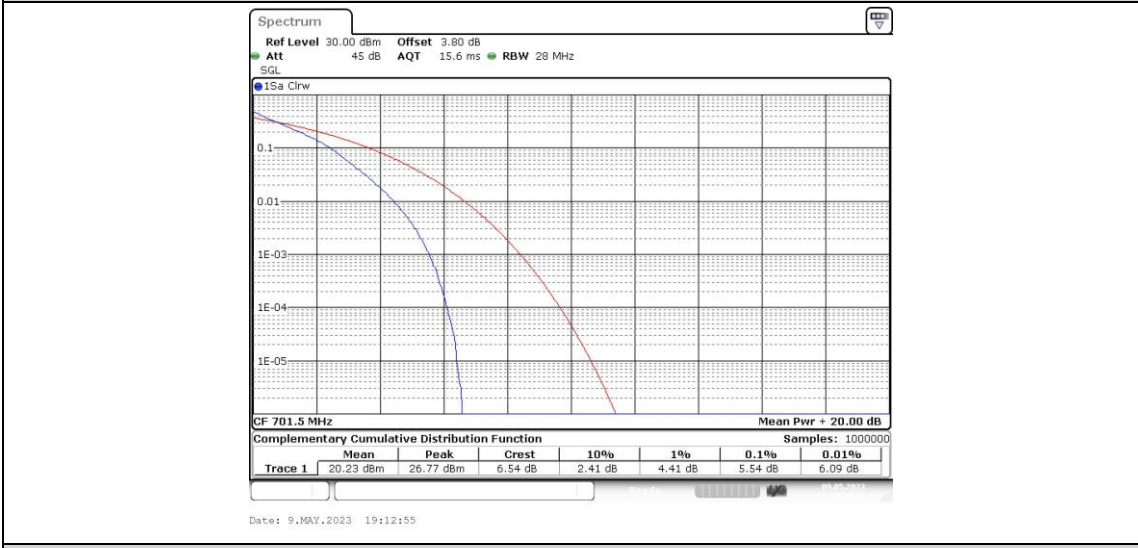
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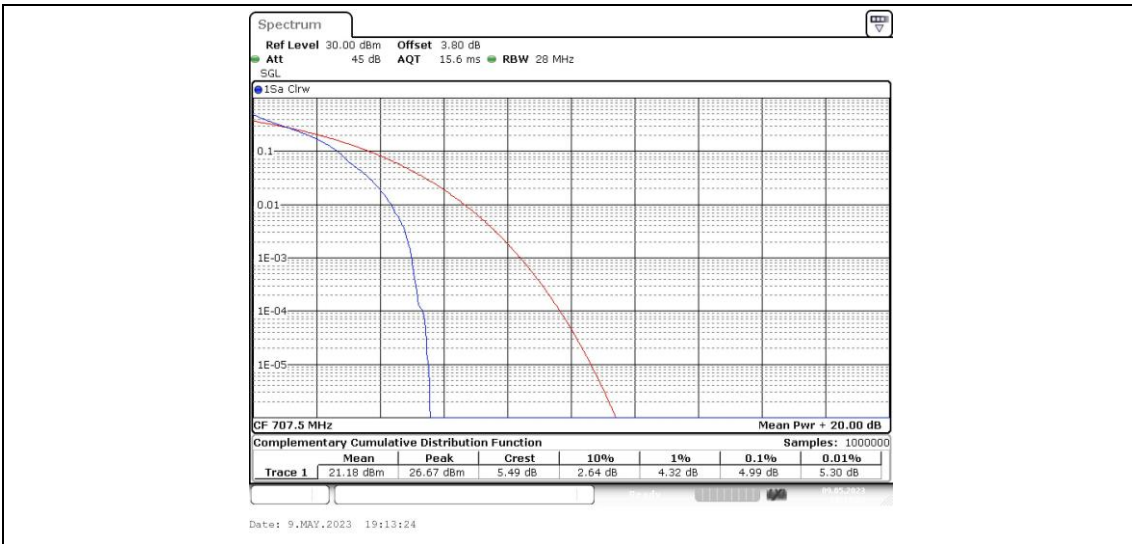
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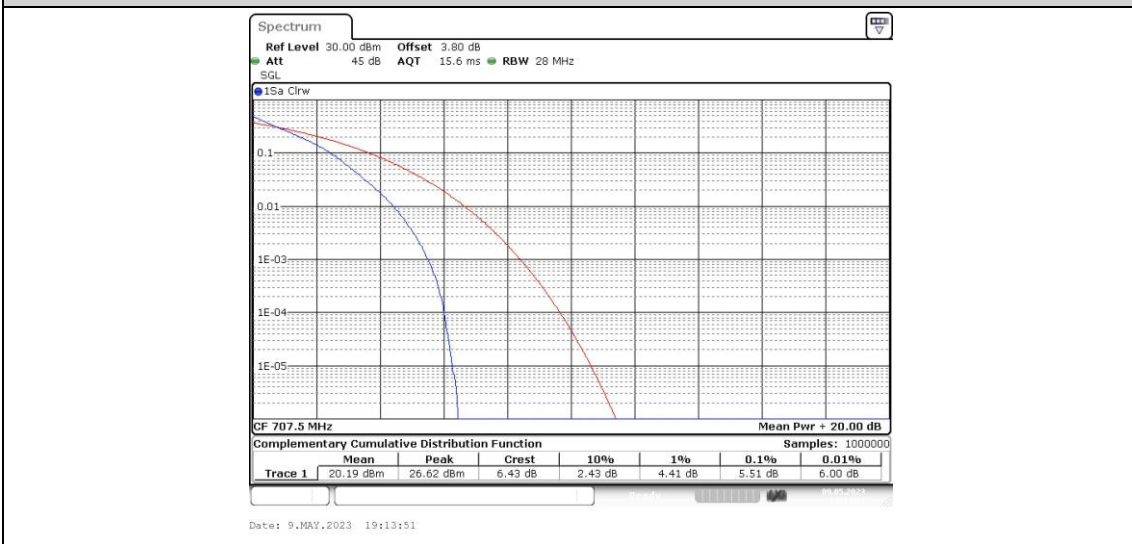
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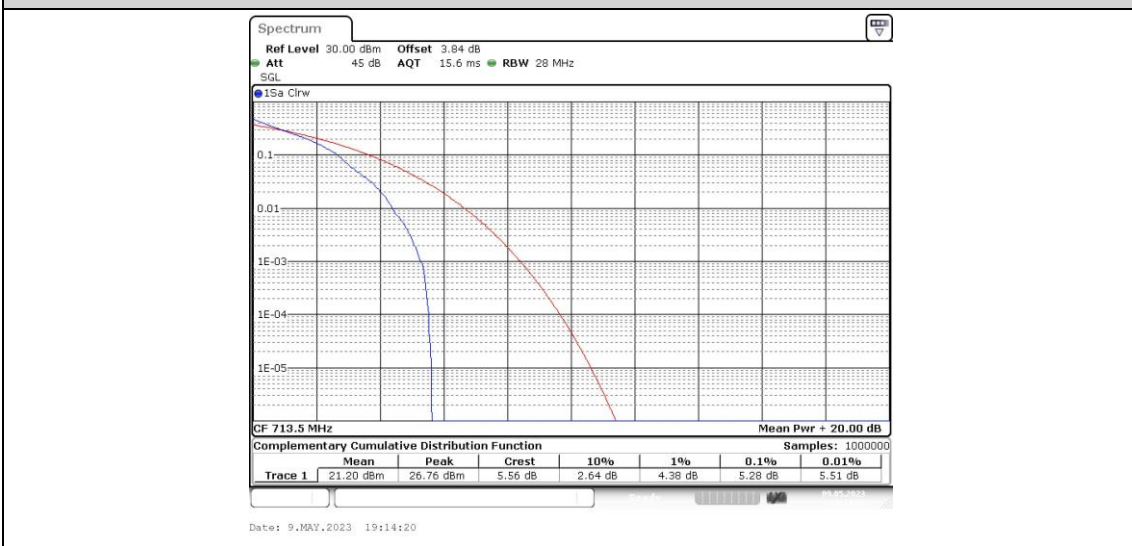
Band12-5MHz-QPSK-23095-1RB#0



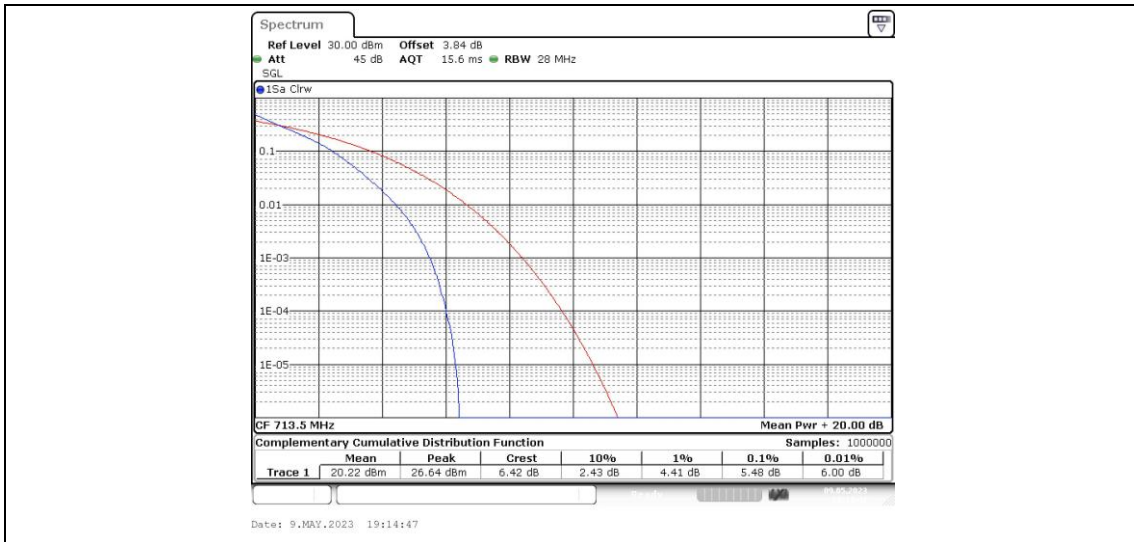
Band12-5MHz-QPSK-23095-25RB#0



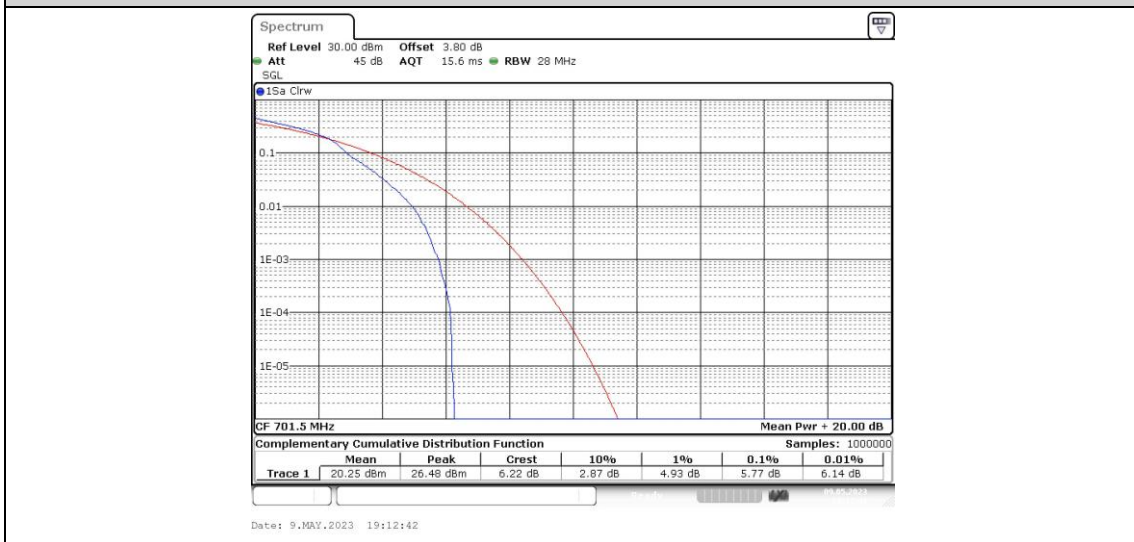
Band12-5MHz-QPSK-23155-1RB#0



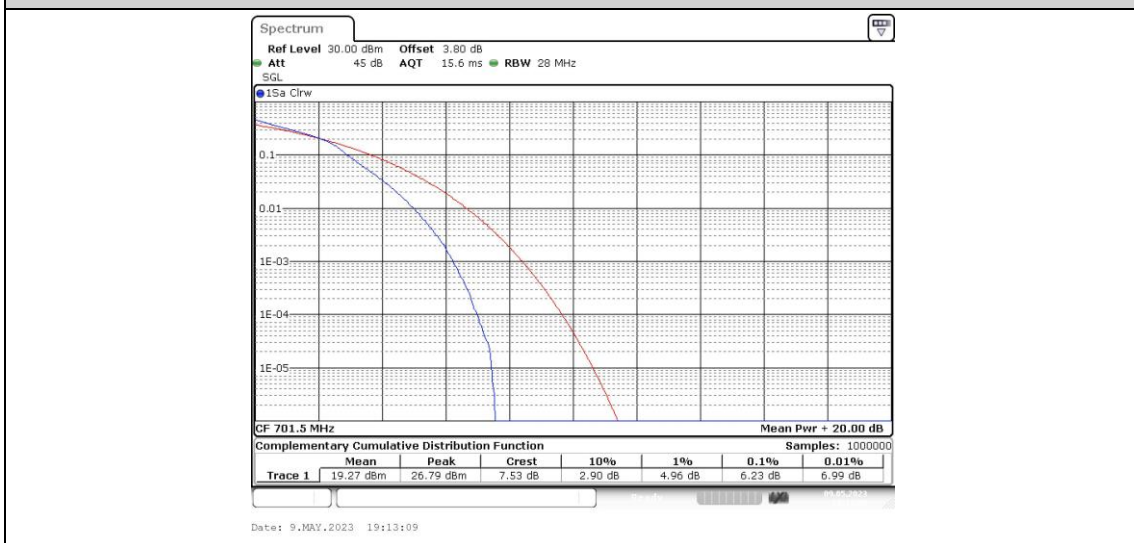
Band12-5MHz-QPSK-23155-25RB#0



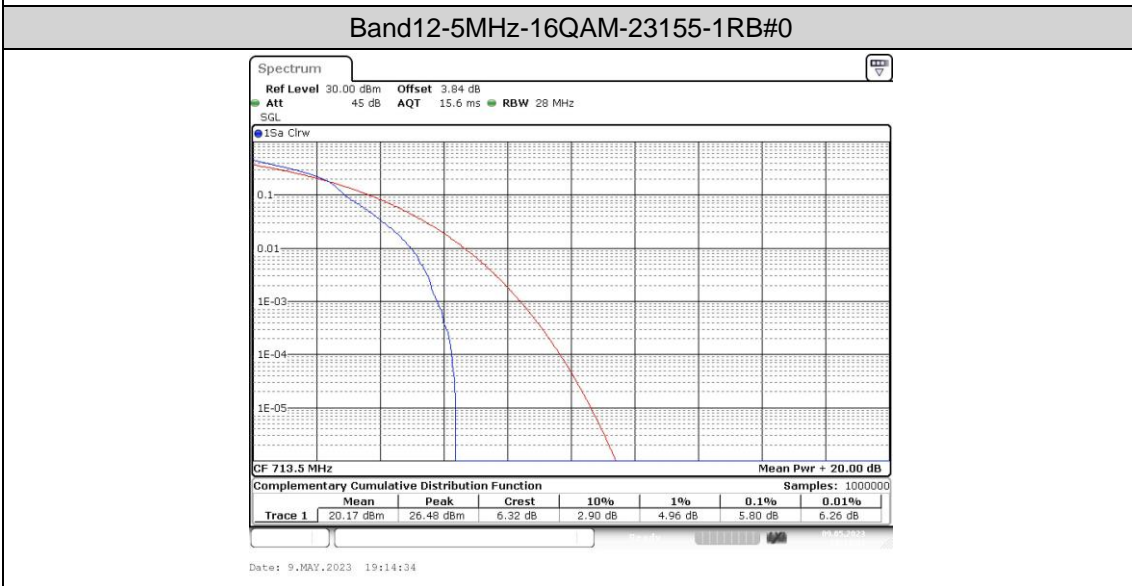
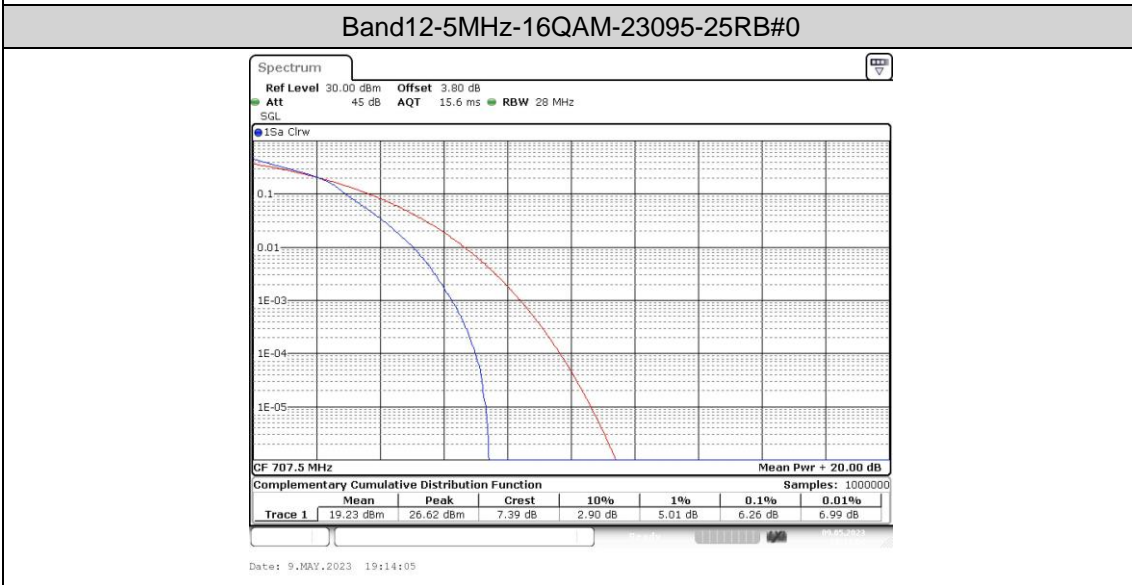
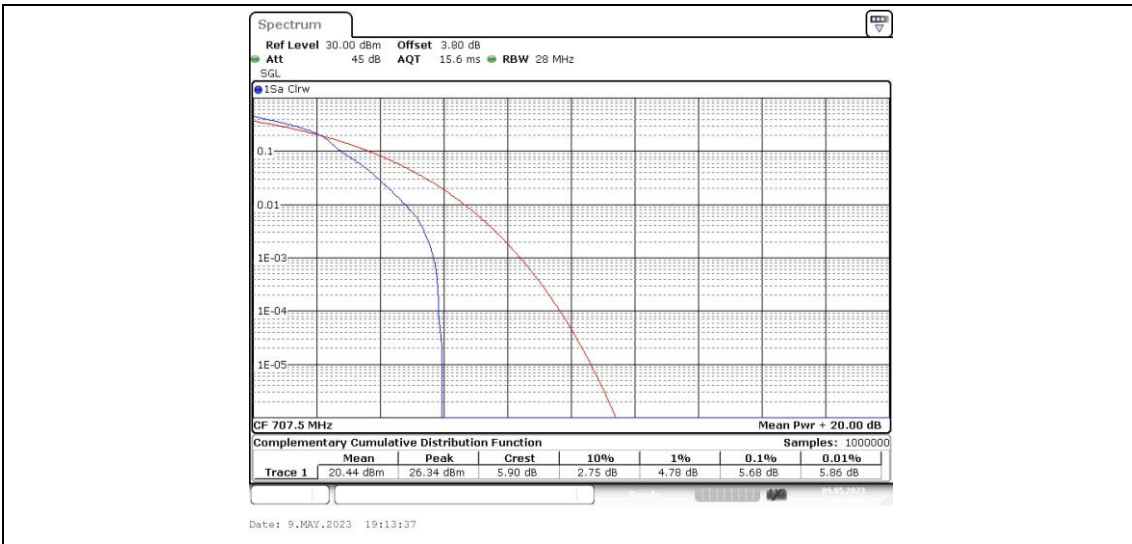
Band12-5MHz-16QAM-23035-1RB#0

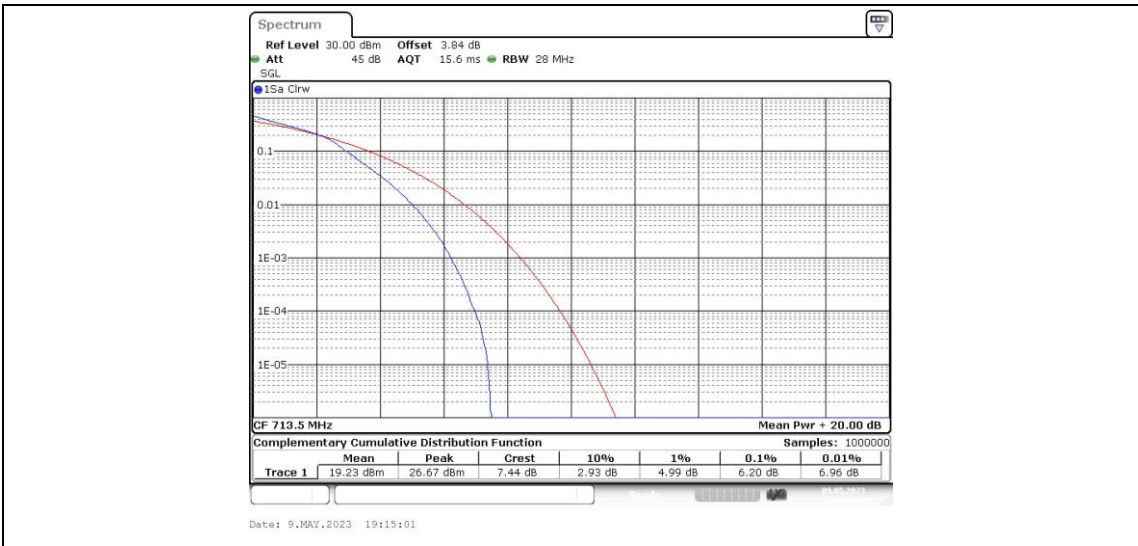


Band12-5MHz-16QAM-23035-25RB#0

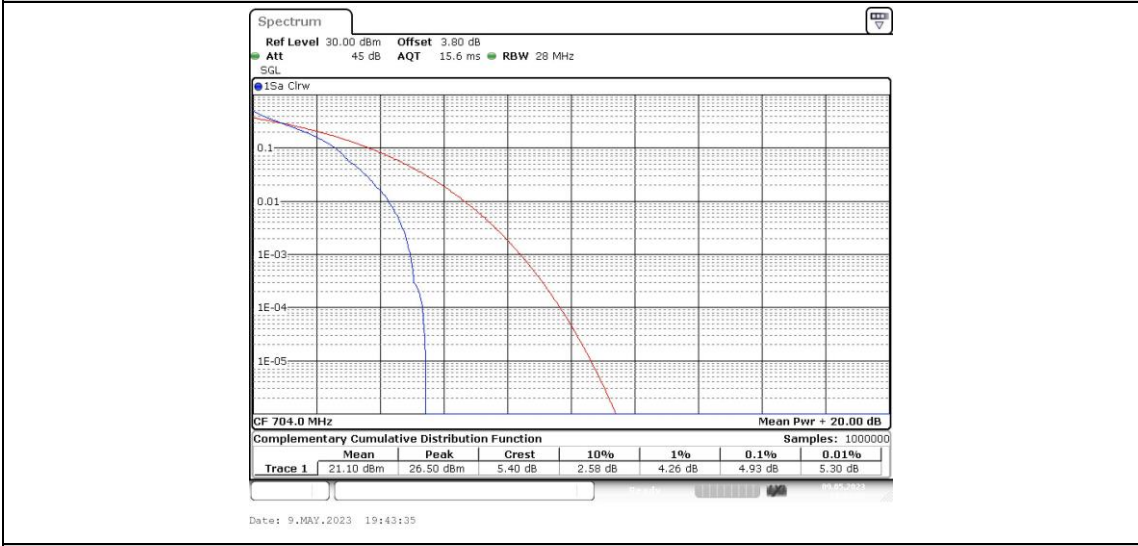


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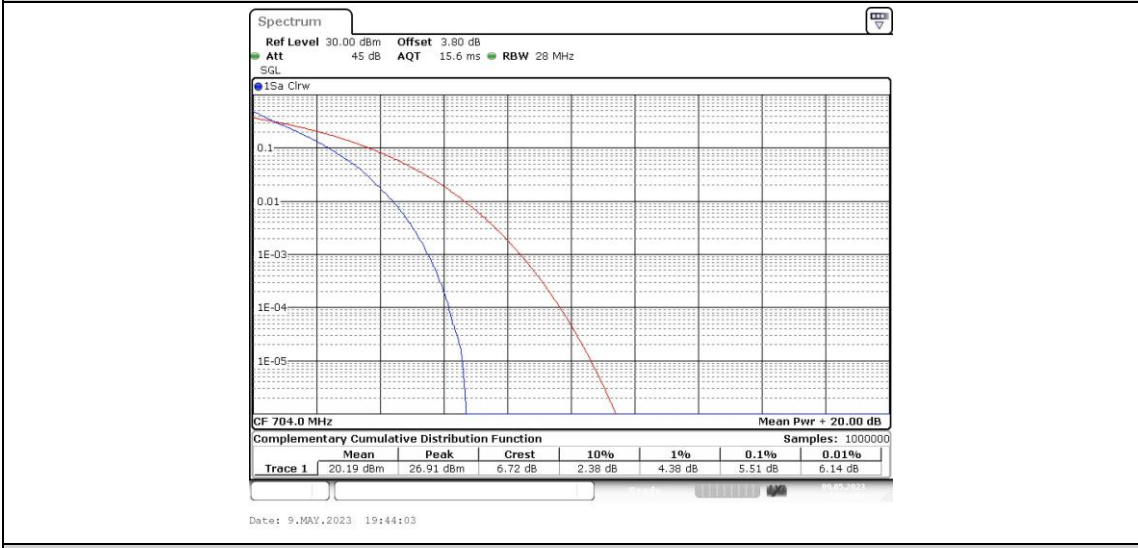




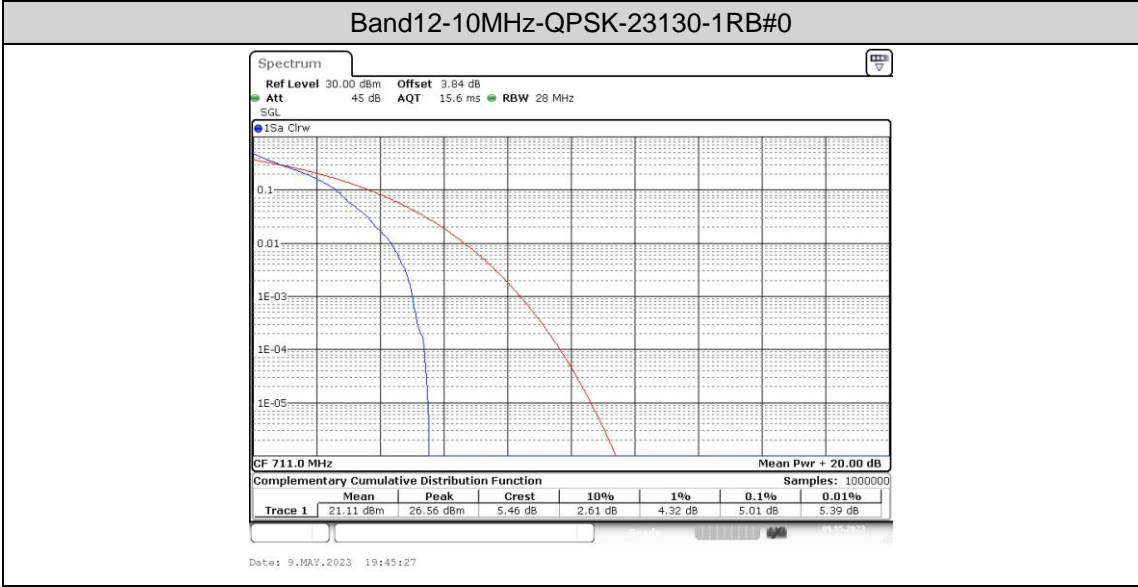
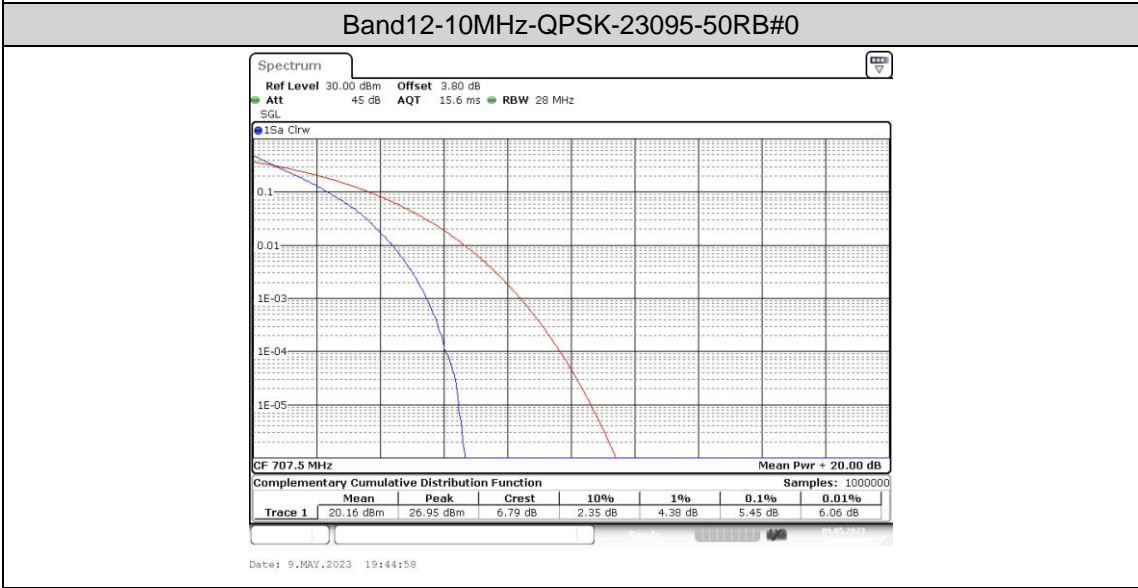
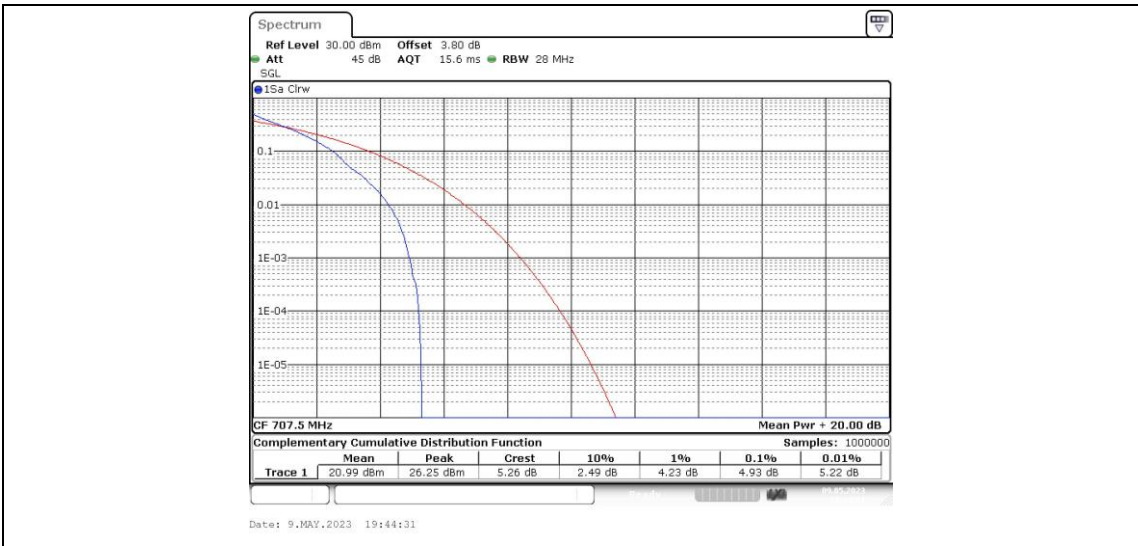
Band12-10MHz-QPSK-23060-1RB#0

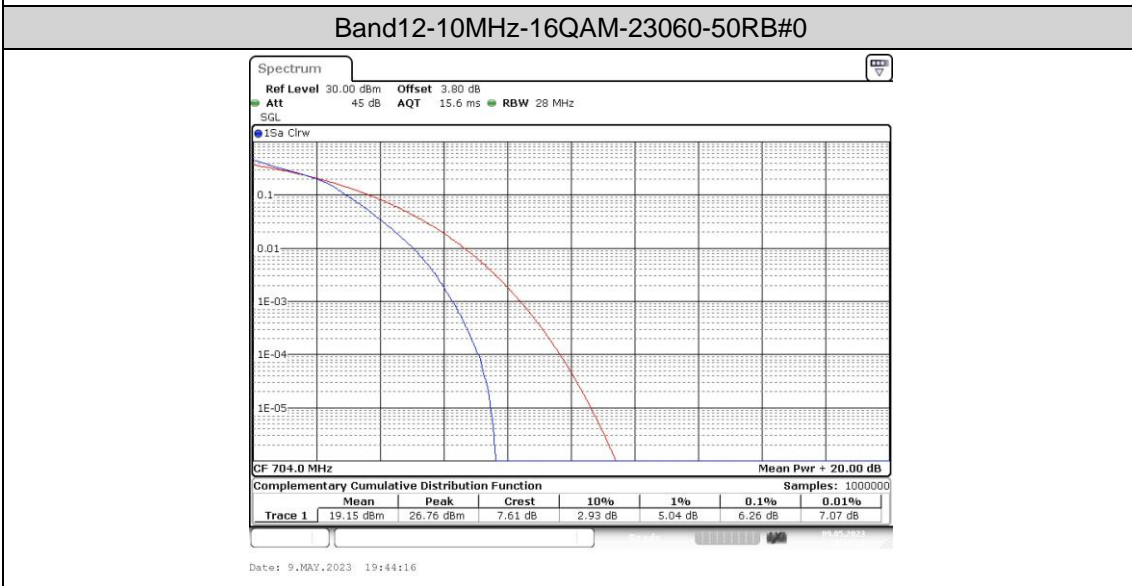
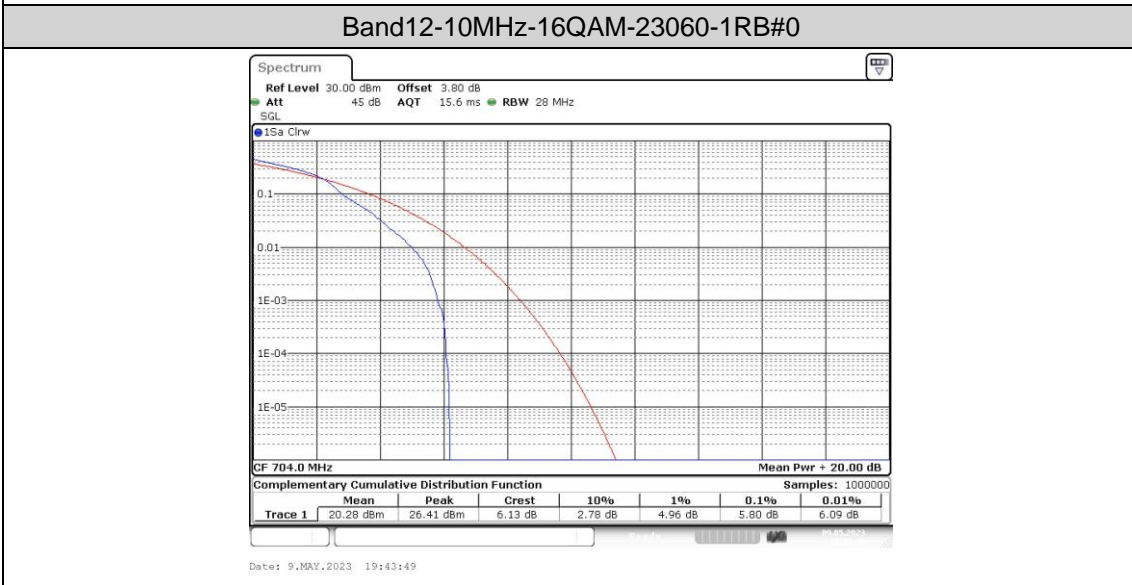
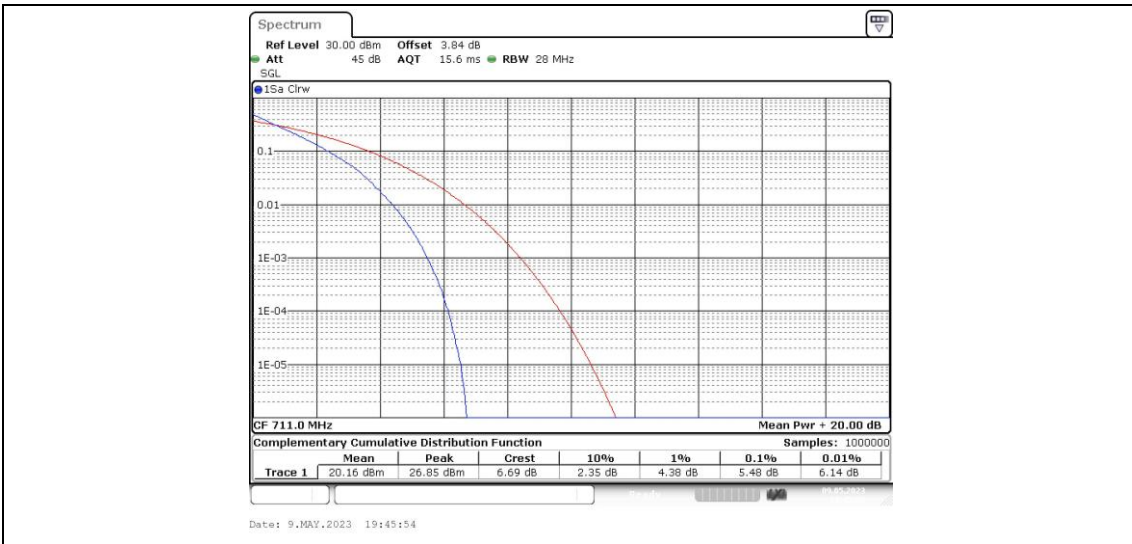


Band12-10MHz-QPSK-23060-50RB#0



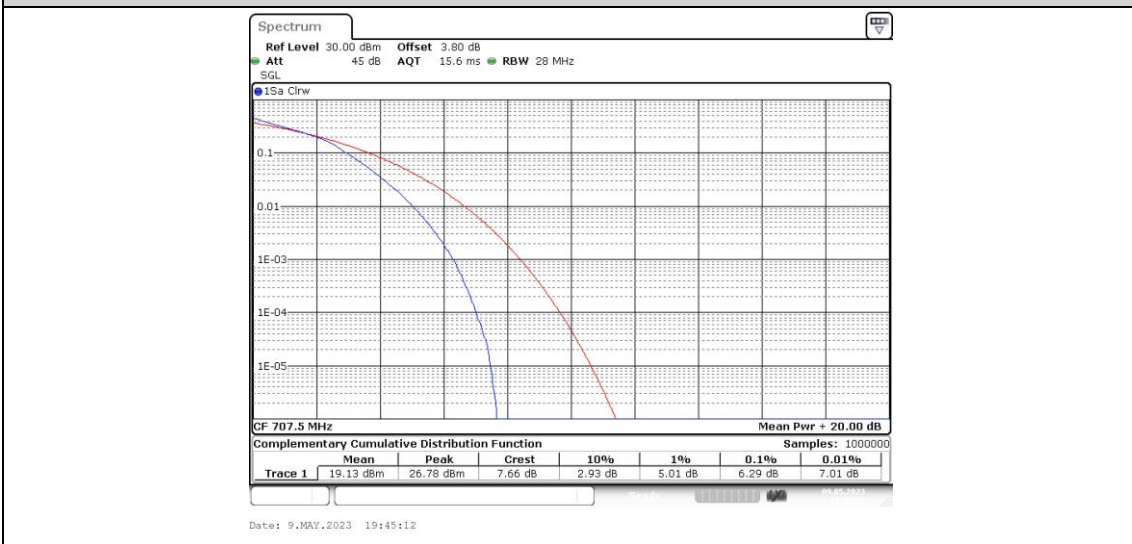
Band12-10MHz-QPSK-23095-1RB#0



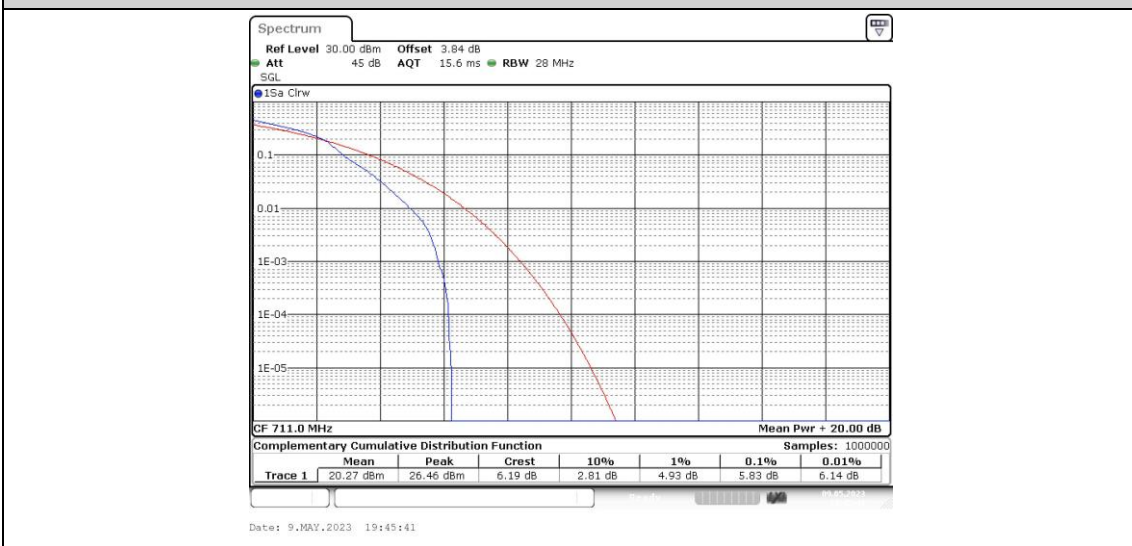




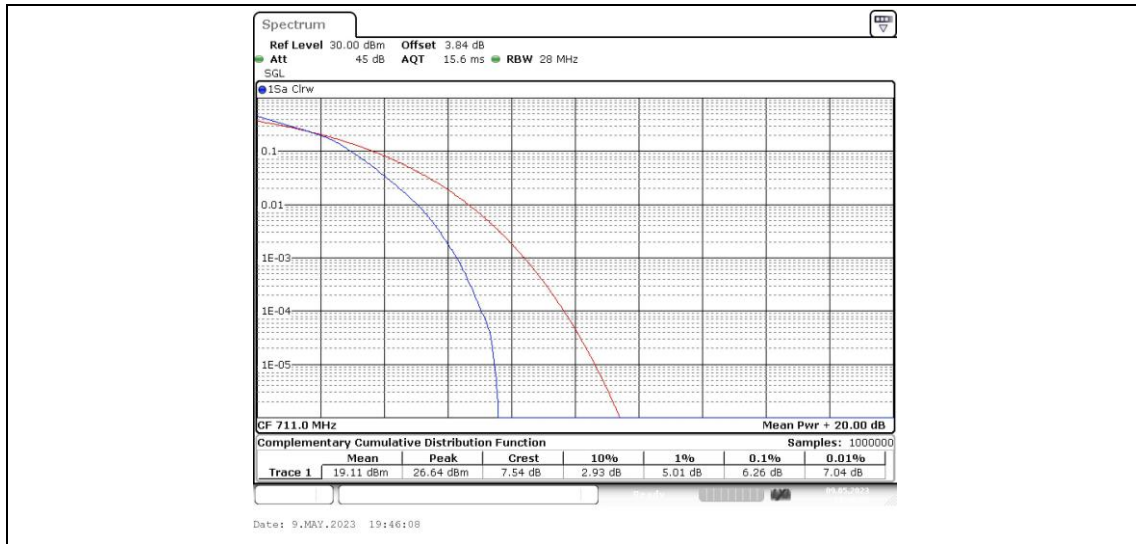
Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-1RB#0



Band12-10MHz-16QAM-23130-50RB#0

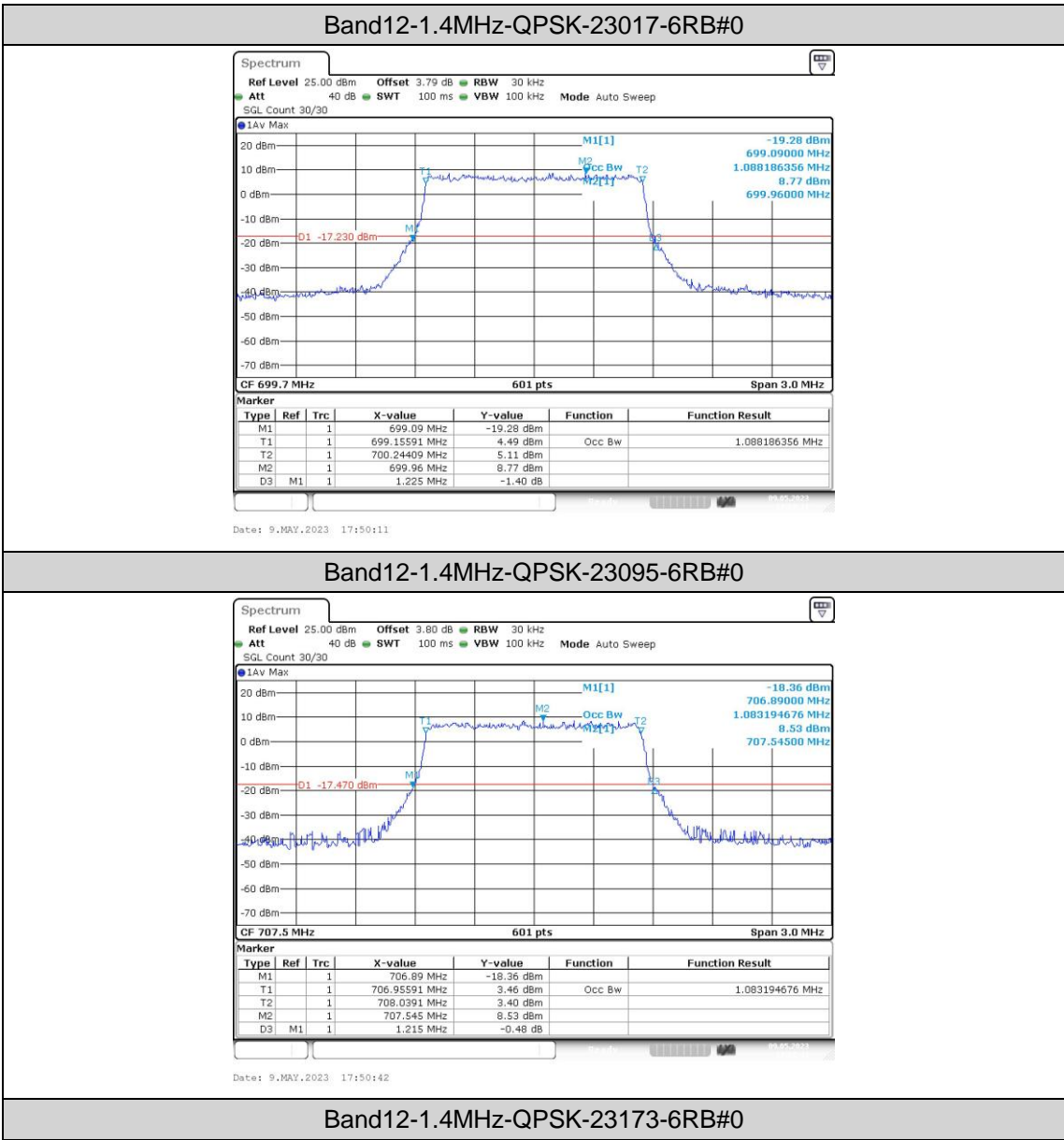


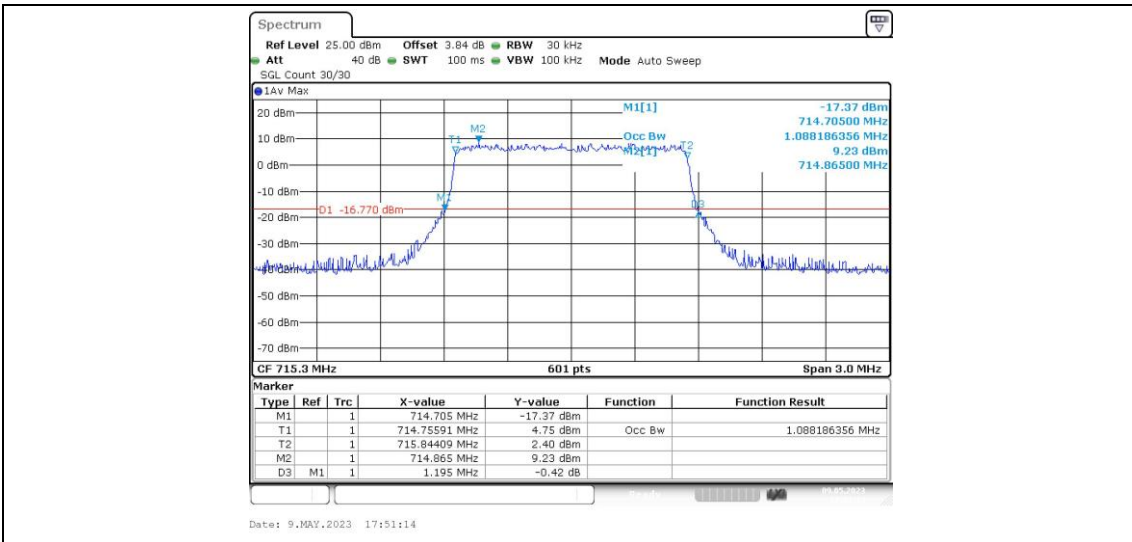
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

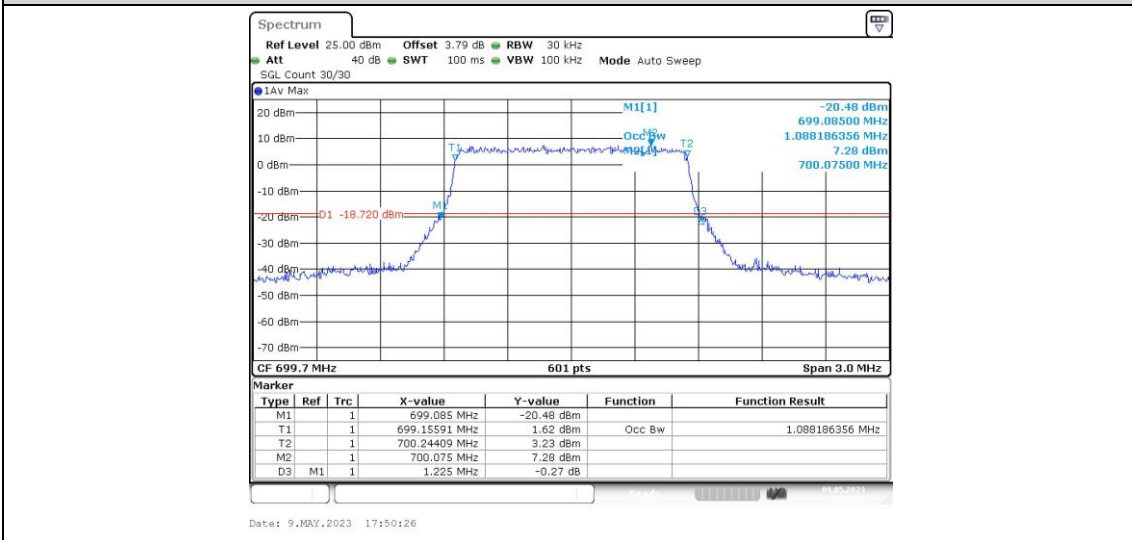
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.083	1.22	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.20	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.23	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.22	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.23	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.84	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.86	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.686	2.84	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.84	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.86	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.686	2.84	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.496	4.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.505	4.78	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.486	4.78	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.515	4.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.496	4.78	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.505	4.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.985	9.53	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.985	9.53	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.952	9.53	PASS

Test Graphs

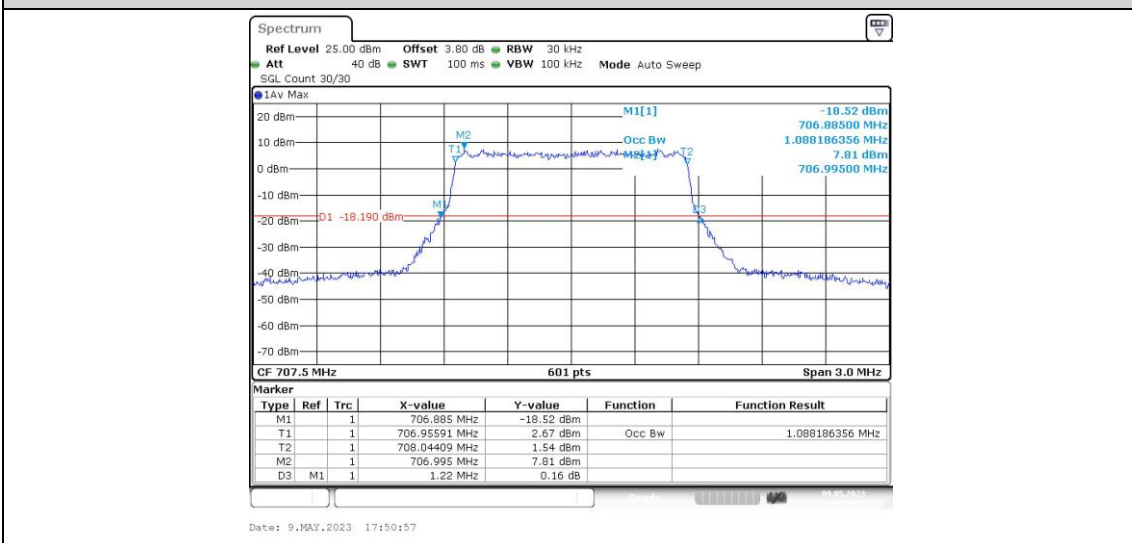




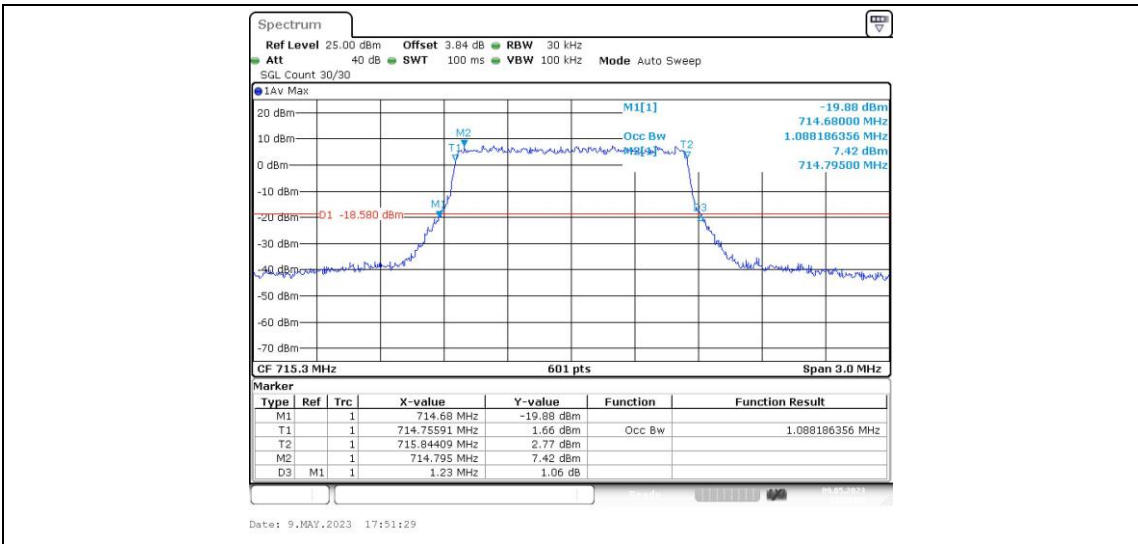
Band12-1.4MHz-16QAM-23017-6RB#0



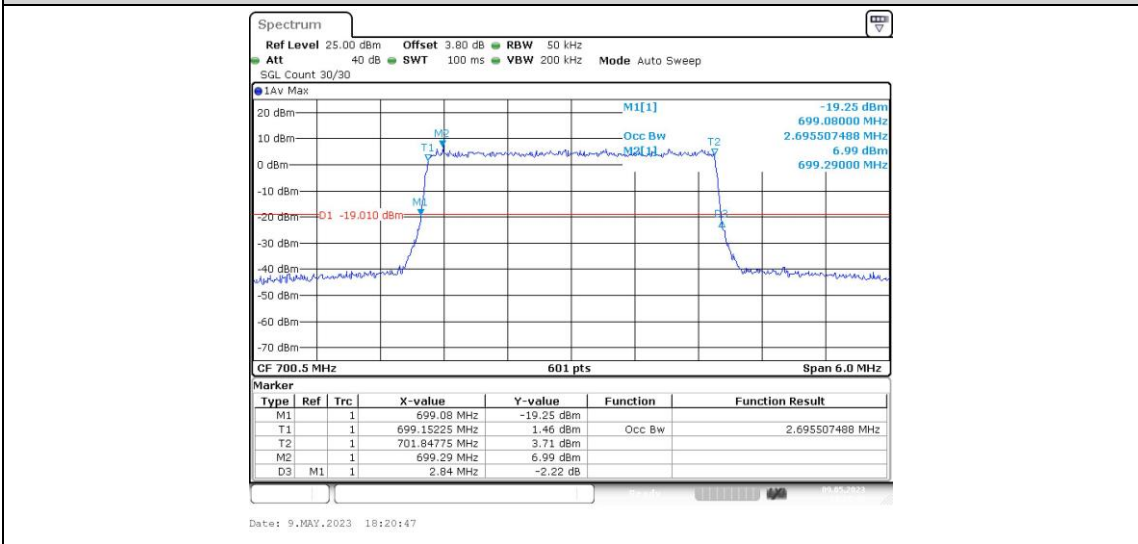
Band12-1.4MHz-16QAM-23095-6RB#0



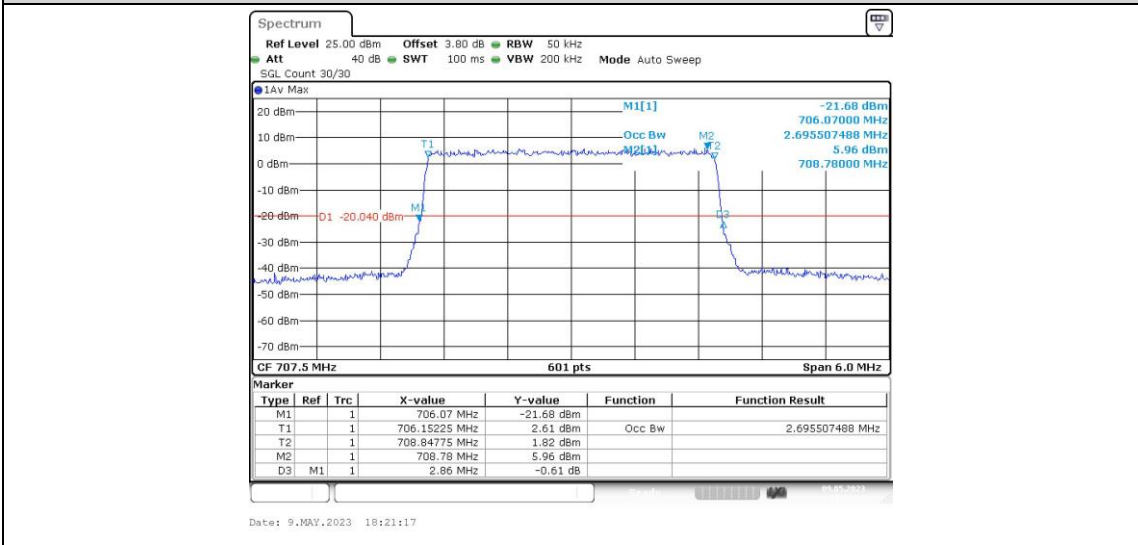
Band12-1.4MHz-16QAM-23173-6RB#0



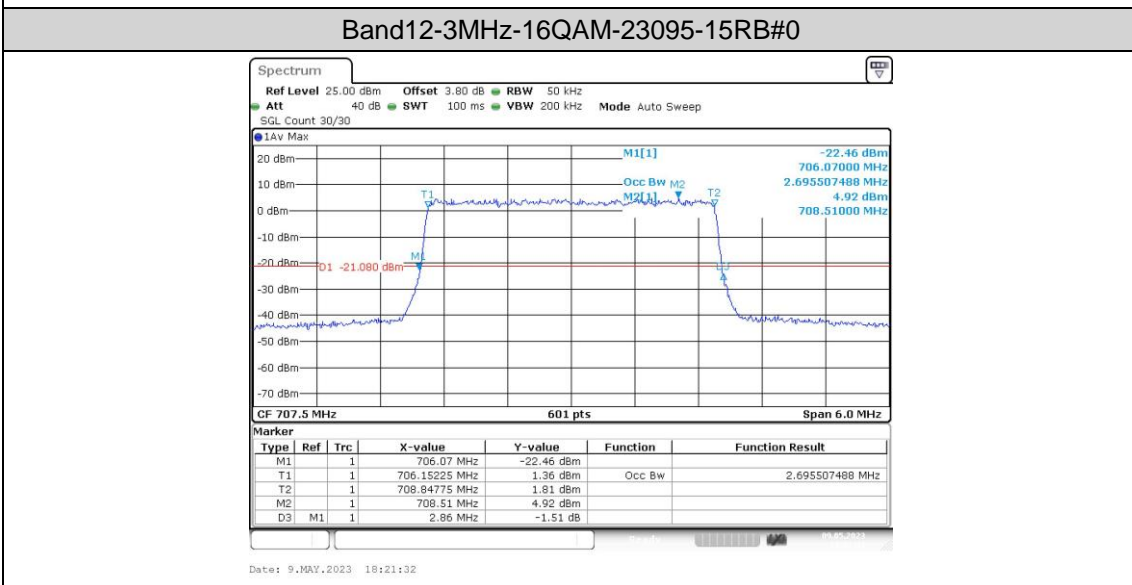
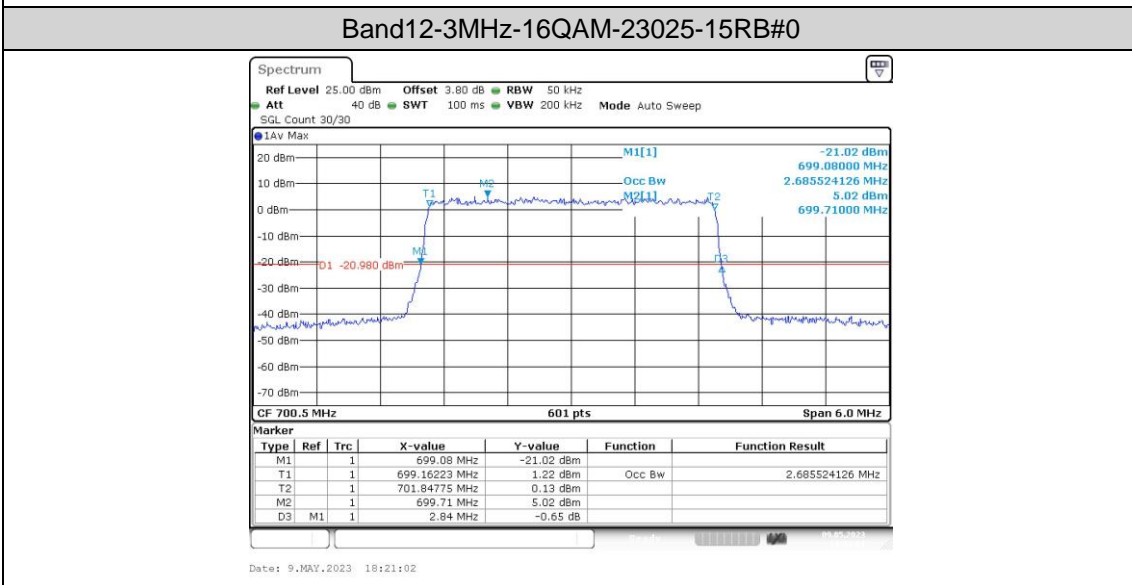
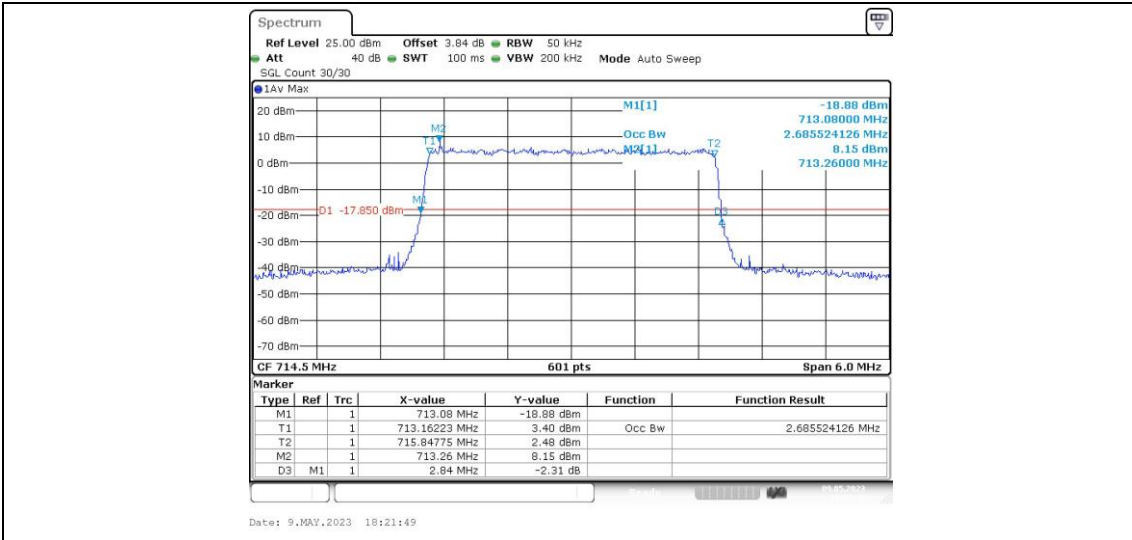
Band12-3MHz-QPSK-23025-15RB#0



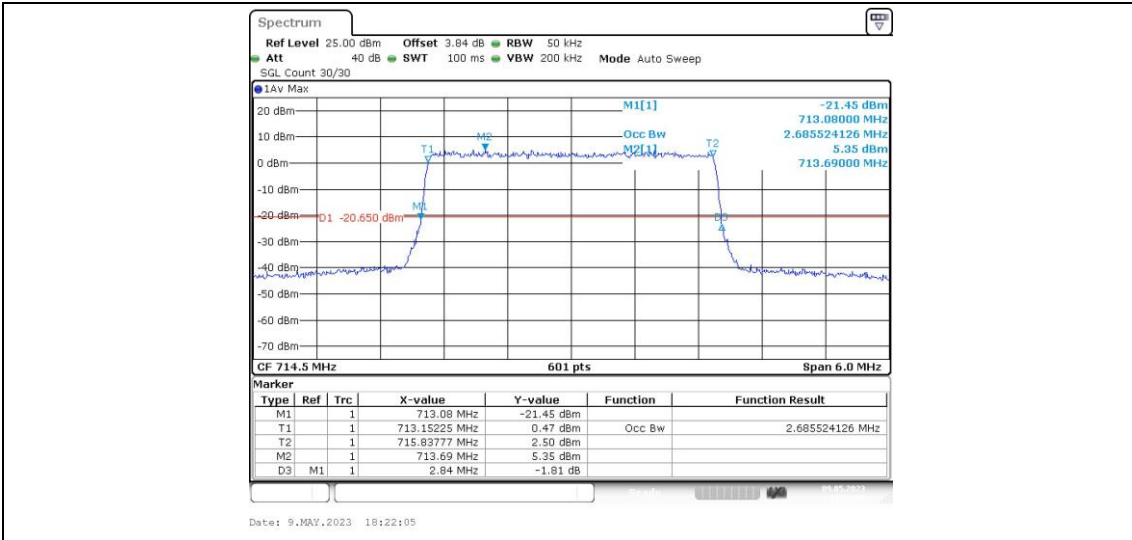
Band12-3MHz-QPSK-23095-15RB#0



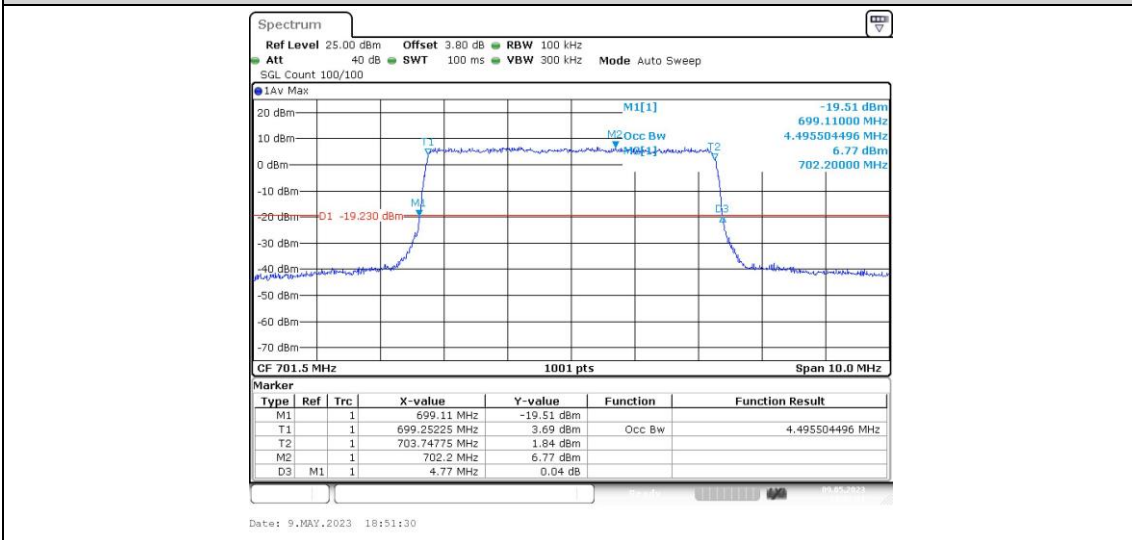
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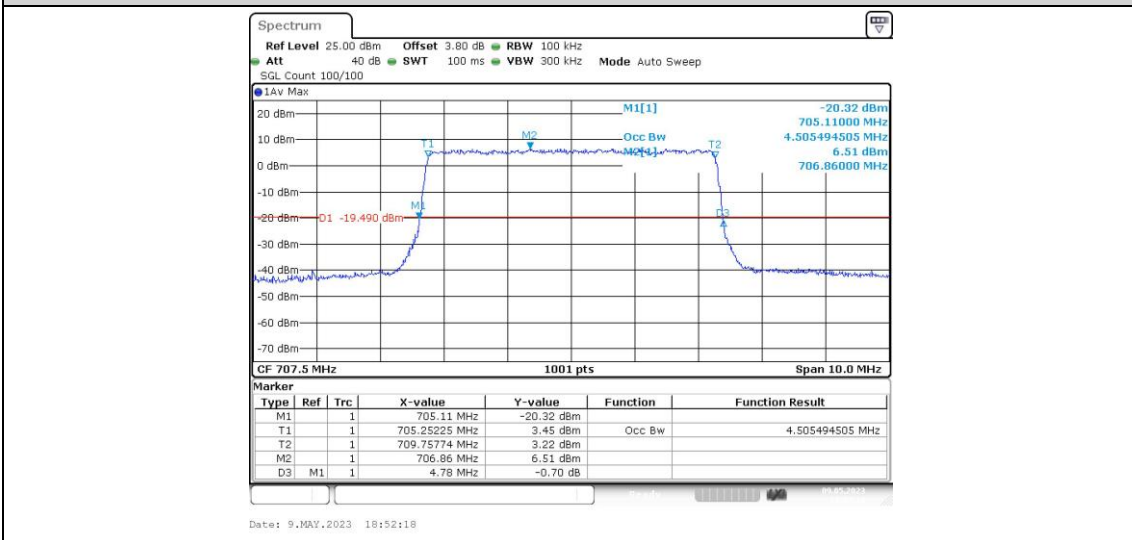
Band12-3MHz-16QAM-23165-15RB#0



Band12-5MHz-QPSK-23035-25RB#0



Band12-5MHz-QPSK-23095-25RB#0



Band12-5MHz-QPSK-23155-25RB#0

