

Appendix for LTE Band 5

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.25	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.03	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.90	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.98	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.94	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.02	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.01	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.96	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.99	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.99	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.97	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.02	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.00	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.34	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.34	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.27	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.26	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.29	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.30	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.36	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.24	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.24	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.20	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.01	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.02	PASS

Band5	1.4MHz	16QAM	20407	3RB#3	22.02	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.96	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.16	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.12	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.23	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.96	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.18	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.00	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.02	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.42	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.54	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.35	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.34	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.30	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.06	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.06	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.97	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.09	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.10	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.09	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.12	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.01	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.10	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.06	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.04	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.06	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.15	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.99	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.41	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.37	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.43	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.49	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.50	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.46	PASS

Band5	3MHz	QPSK	20635	15RB#0	22.50	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.38	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.34	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.22	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.17	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.12	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.14	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.17	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.20	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.34	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.33	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.11	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.09	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.18	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.09	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.65	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.71	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.69	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.51	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.54	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.48	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.44	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.14	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.11	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.07	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.13	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.14	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.09	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.10	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.16	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.13	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.18	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.02	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.06	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.18	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.08	PASS

Band5	5MHz	QPSK	20625	1RB#0	23.43	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.33	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.47	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.46	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.56	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.43	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.23	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.16	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.20	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.12	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.16	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.05	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.08	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.11	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.21	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.35	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.03	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.07	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.19	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.08	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.64	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.76	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.72	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.48	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.53	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.60	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.48	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.00	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.01	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.93	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.97	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.05	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.04	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.11	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.99	PASS

Band5	10MHz	QPSK	20525	1RB#24	22.99	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.08	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.06	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.09	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.20	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.11	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.26	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.59	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.27	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.34	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.36	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.51	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.40	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.37	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.23	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.11	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.99	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.04	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.07	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.11	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.22	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.33	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.41	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.11	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.11	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.23	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.12	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.16	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.27	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.43	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.41	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.46	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.53	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.39	PASS

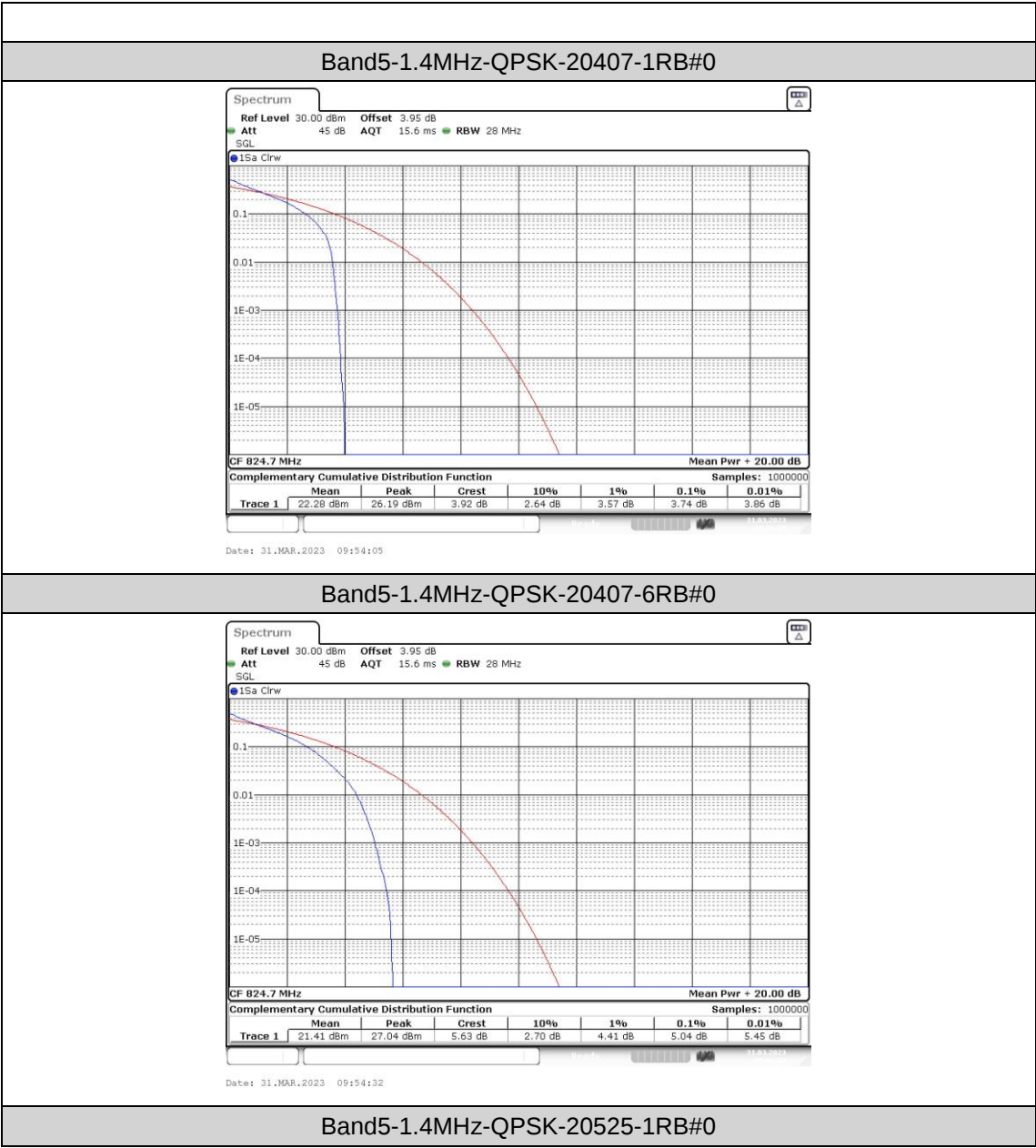
Appendix B: Peak-to-Average Ratio(CCDF)

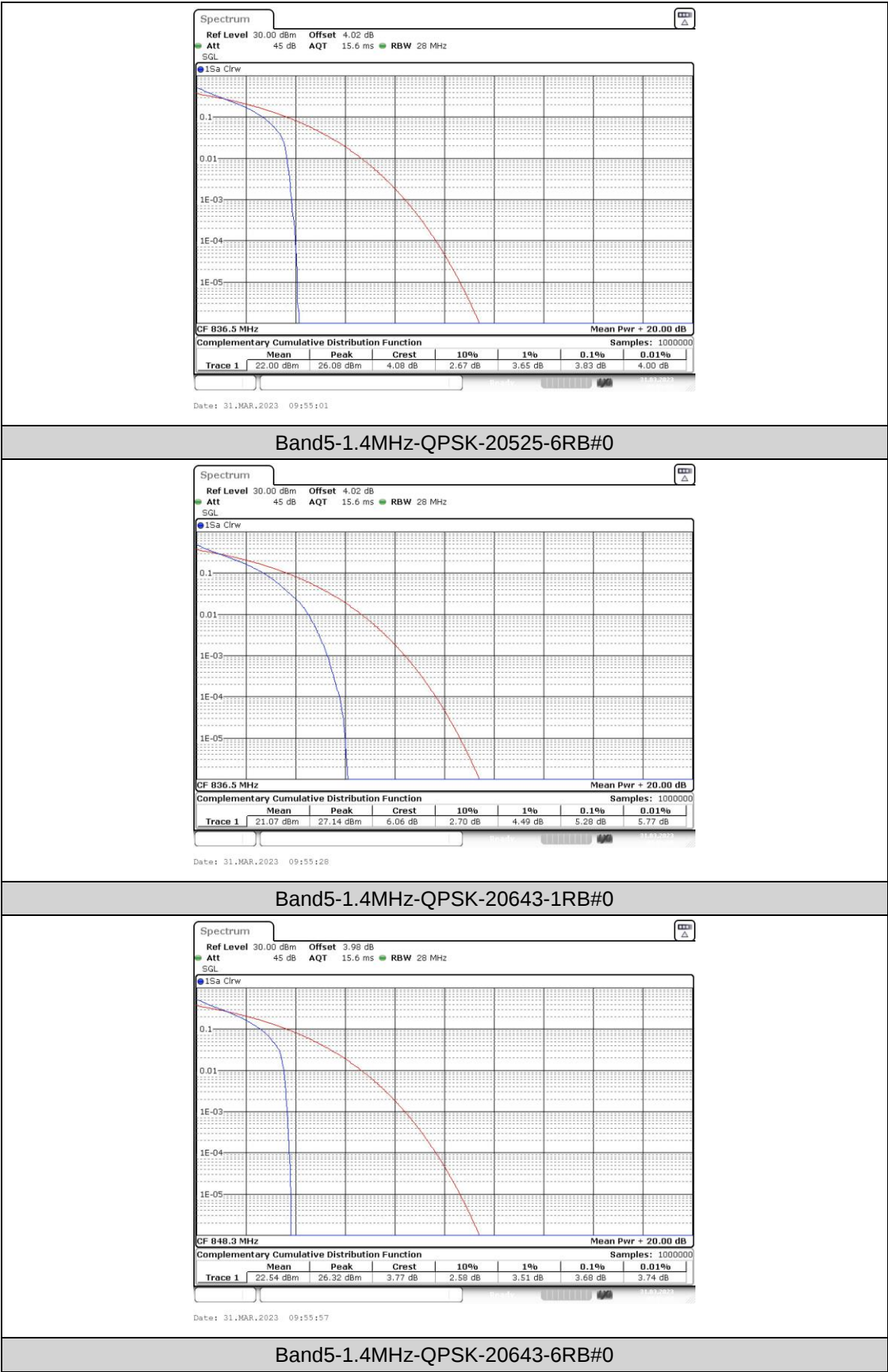
Test Result

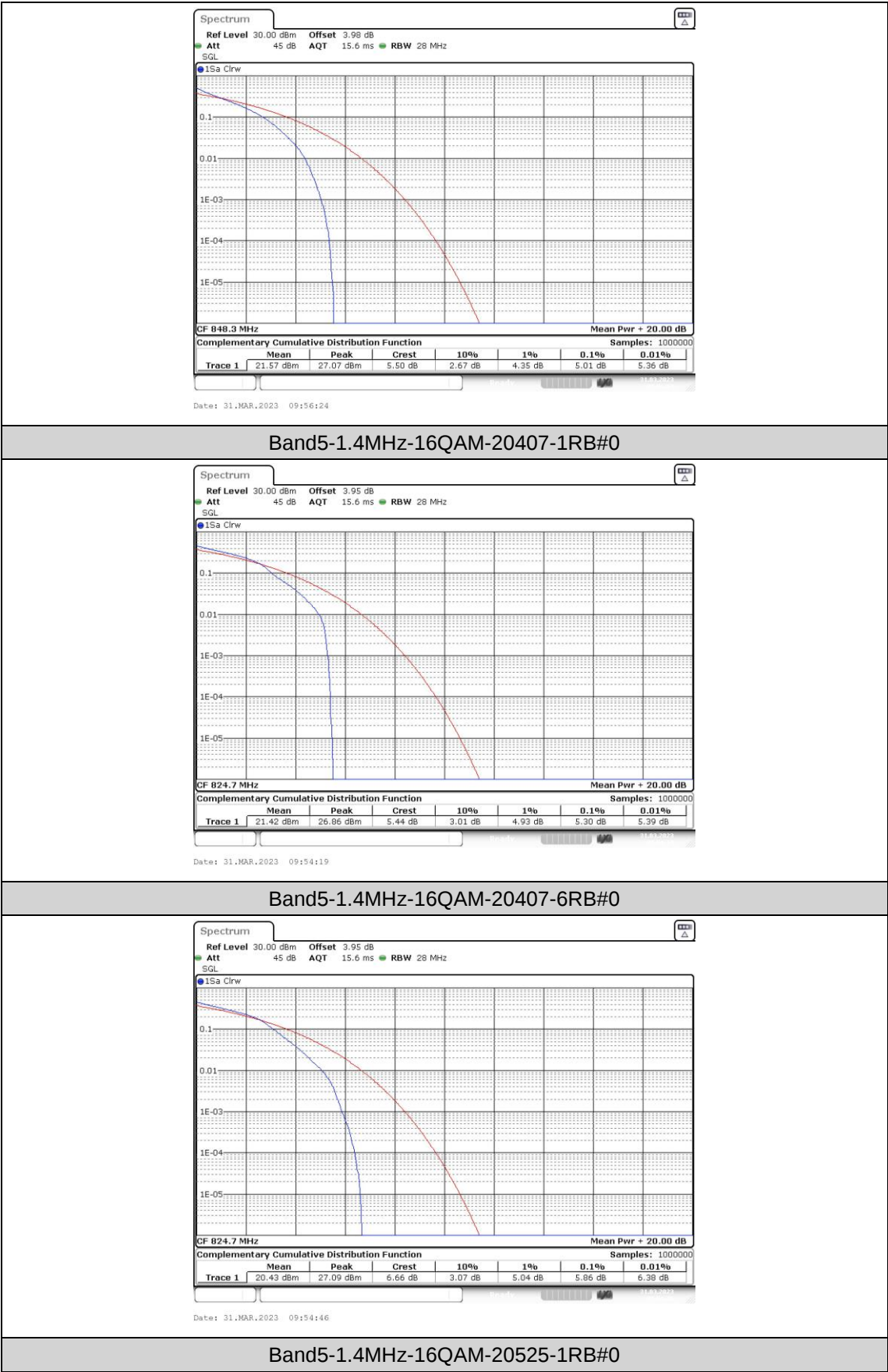
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	3.74	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.04	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.83	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.28	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.68	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.01	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.30	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.86	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.59	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.06	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.19	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.86	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.51	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.01	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.57	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.19	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.48	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.93	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.01	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.88	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.06	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.87	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.83	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	3.51	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.10	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	3.59	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.30	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	3.42	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.01	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.07	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.91	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.25	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.06	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.75	13	PASS

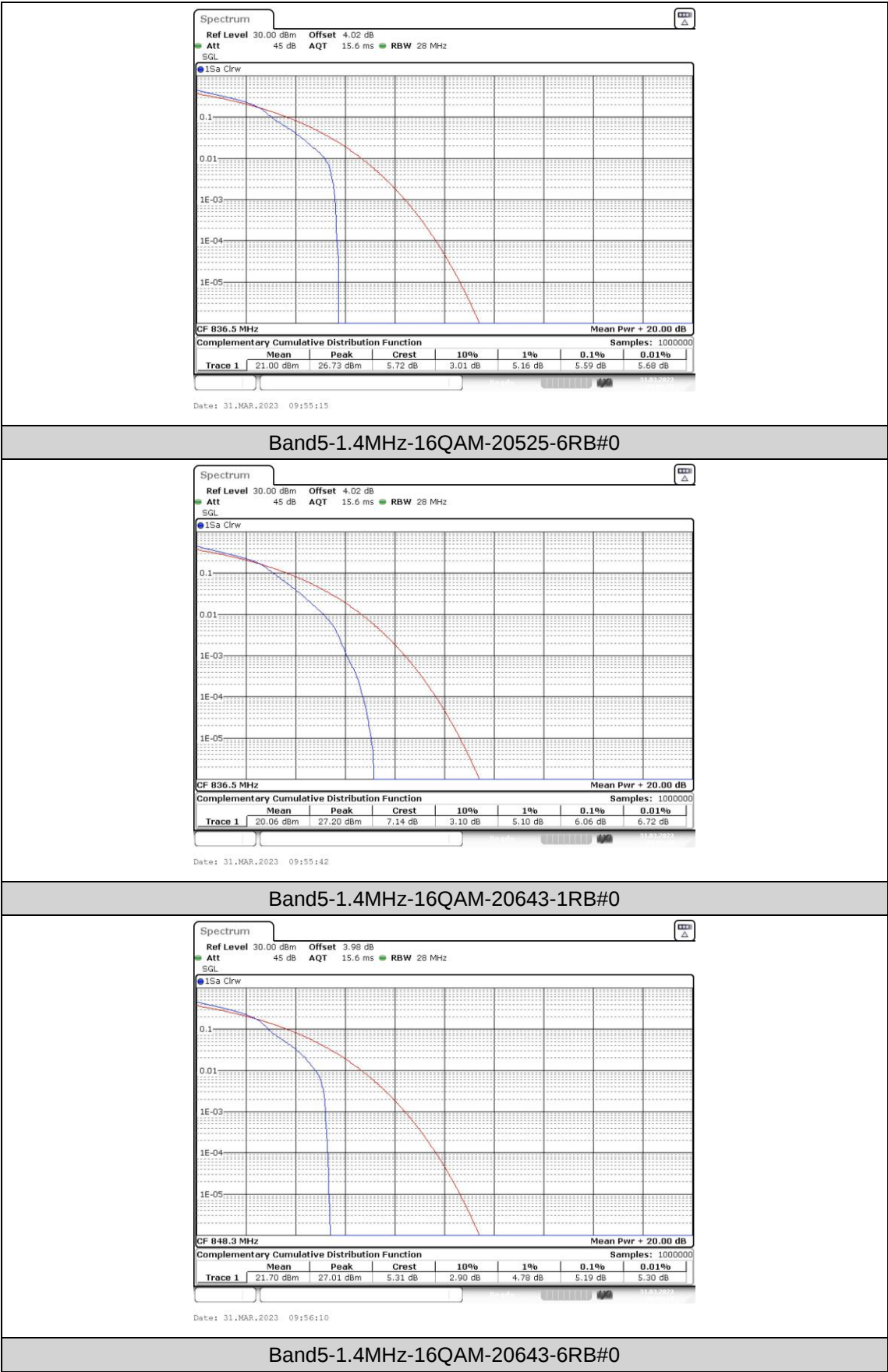
Band5	5MHz	16QAM	20625	25RB#0	5.80	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	3.42	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.07	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	3.51	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.19	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	3.54	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.04	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.91	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.10	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.00	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.28	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.91	13	PASS

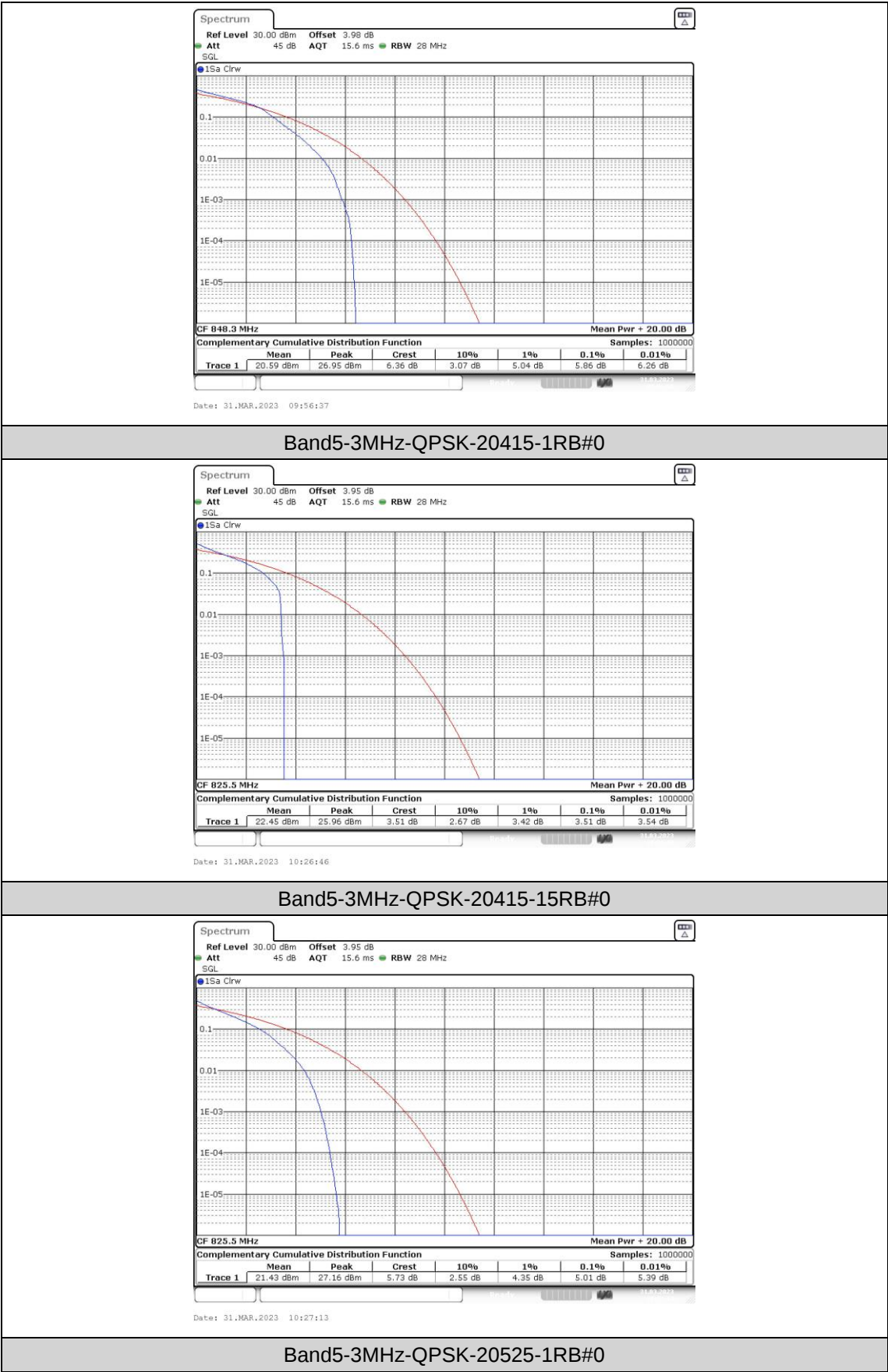
Test Graphs

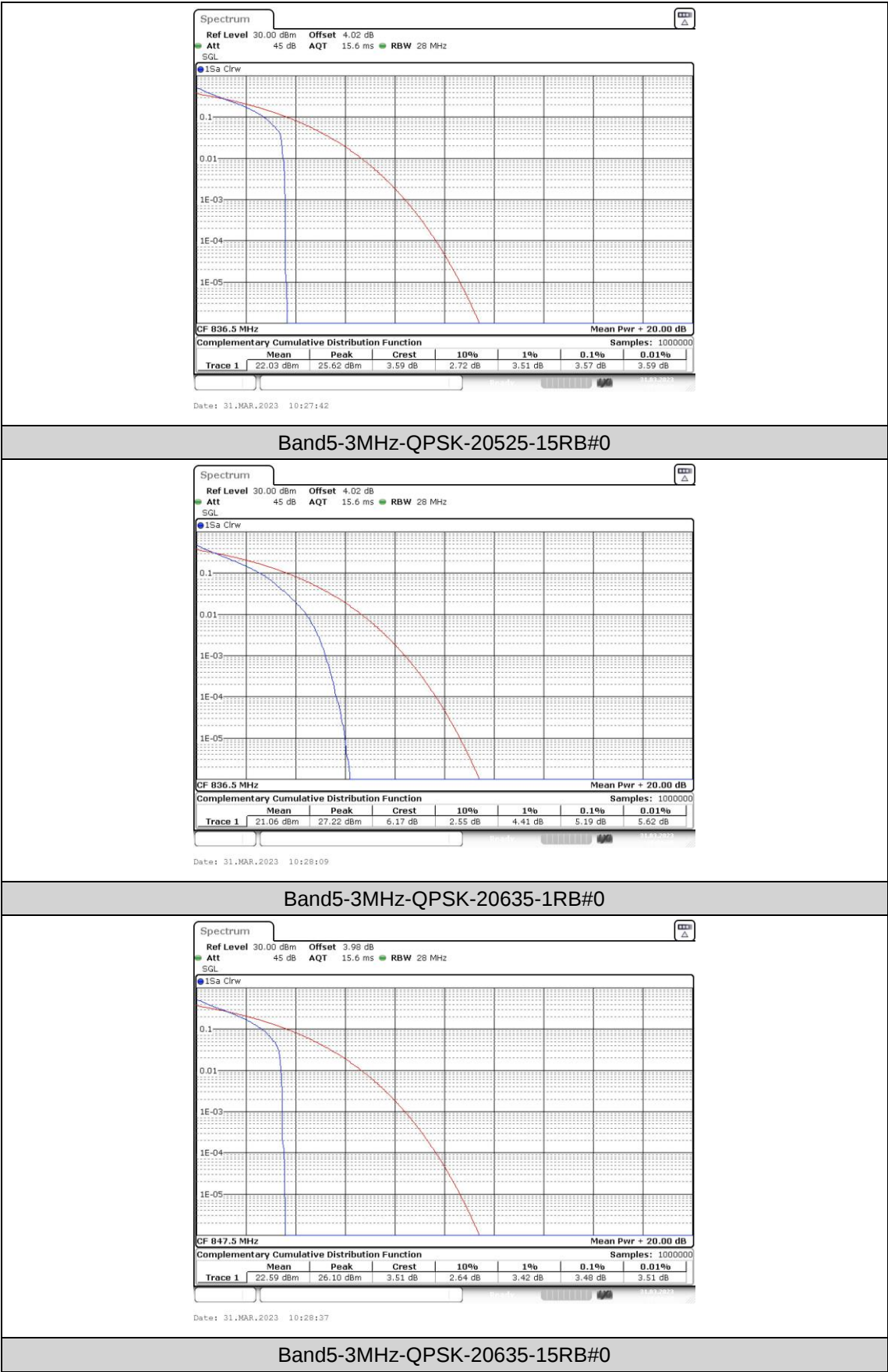


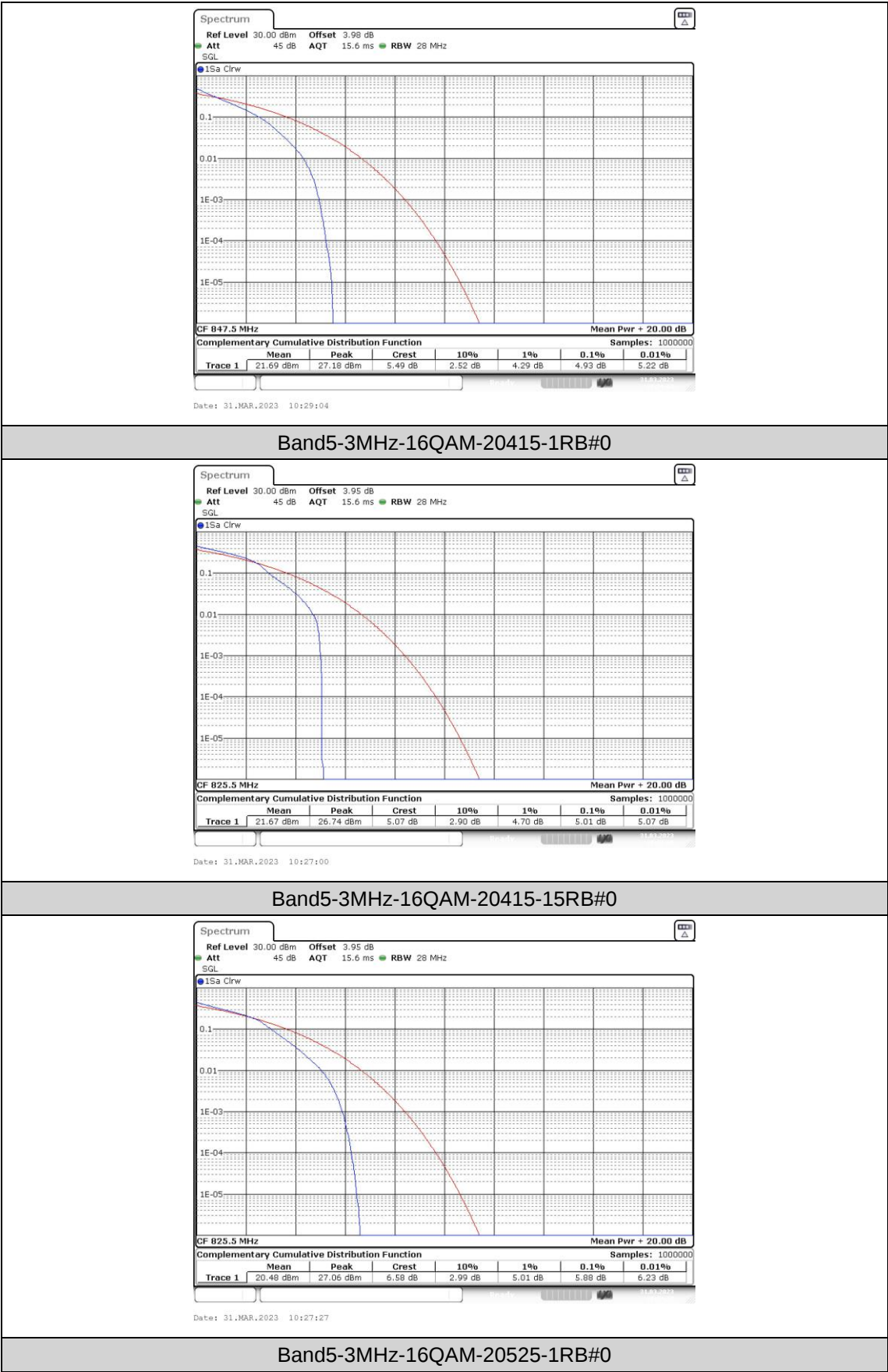


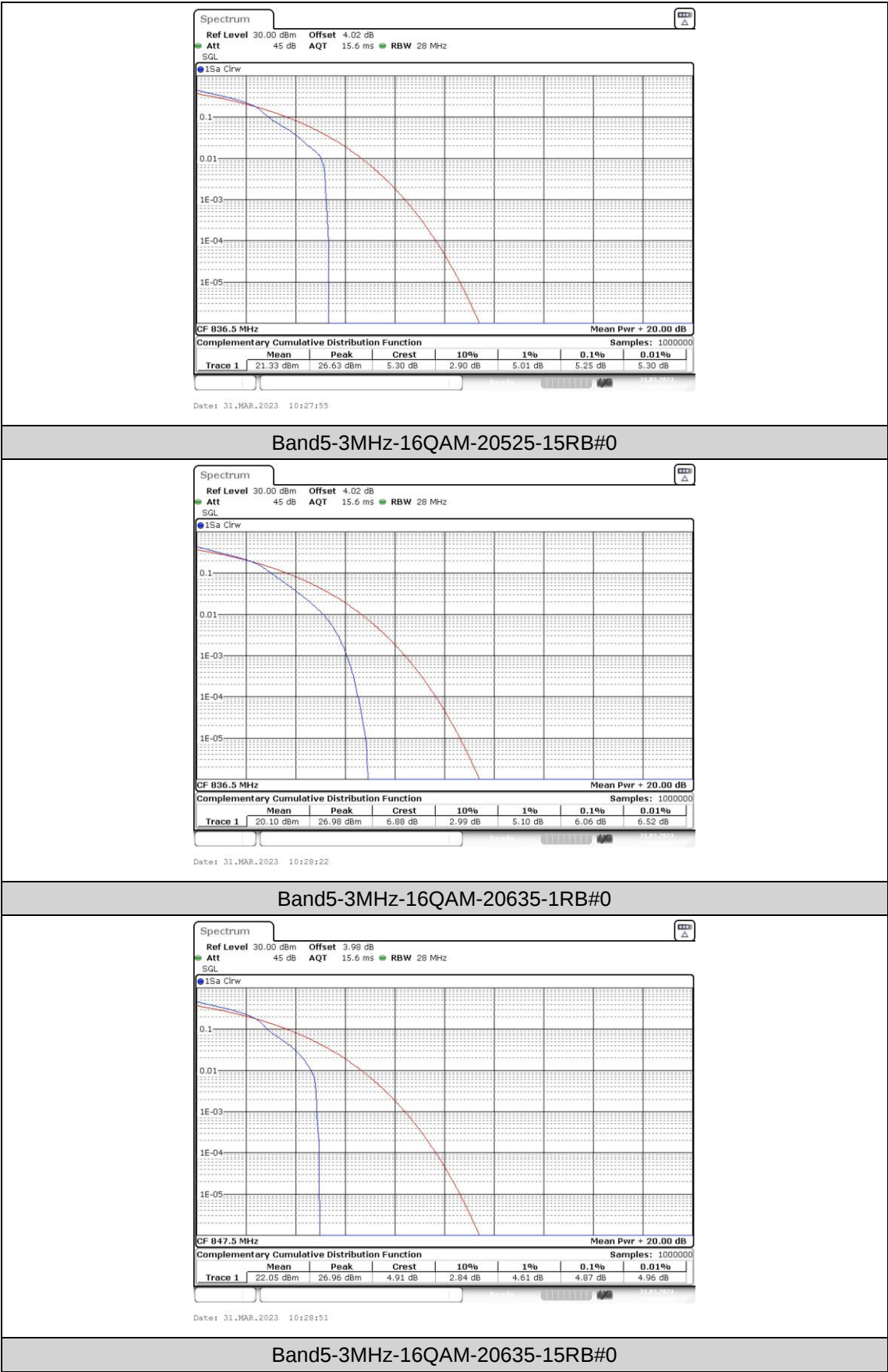


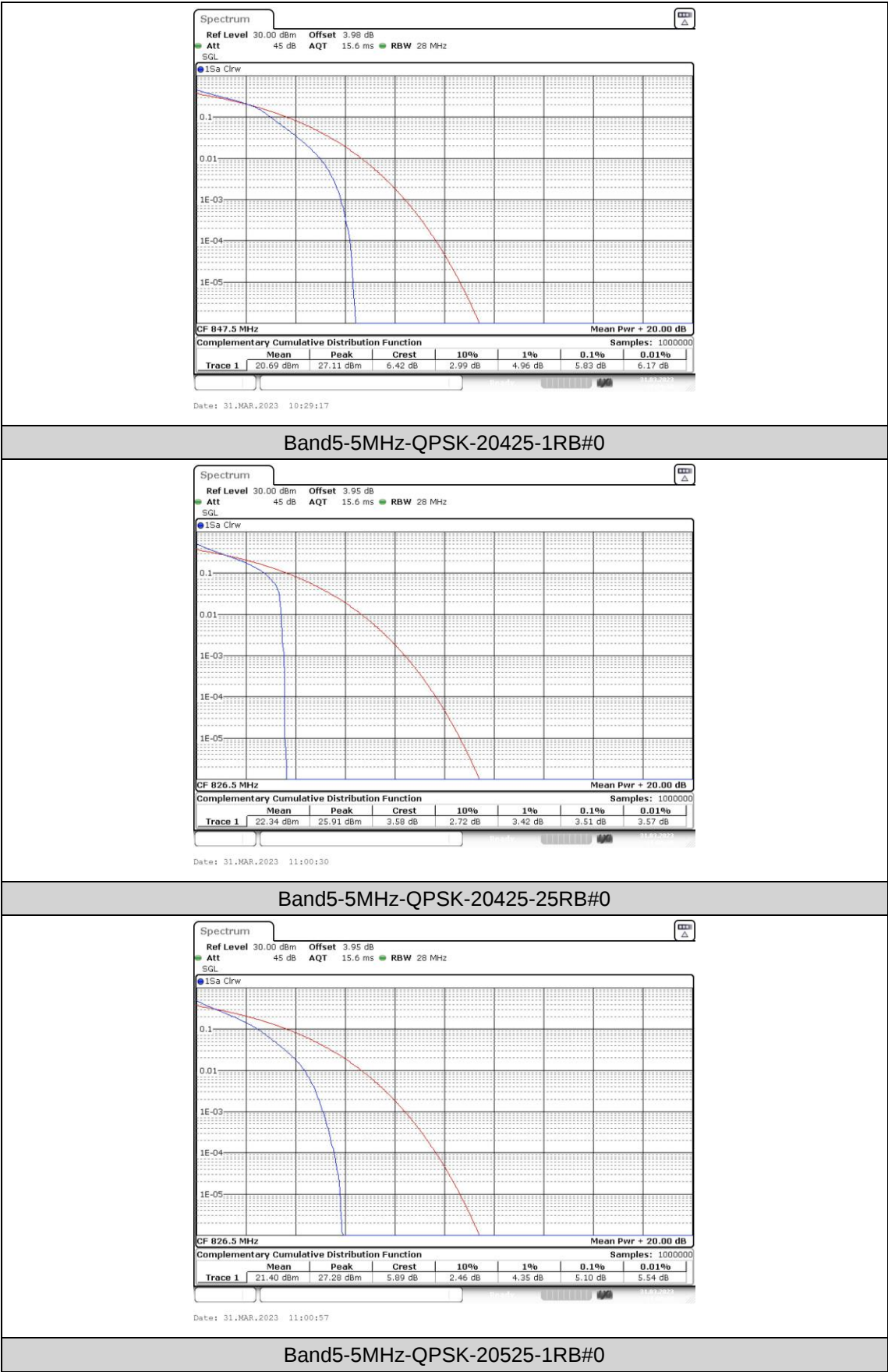


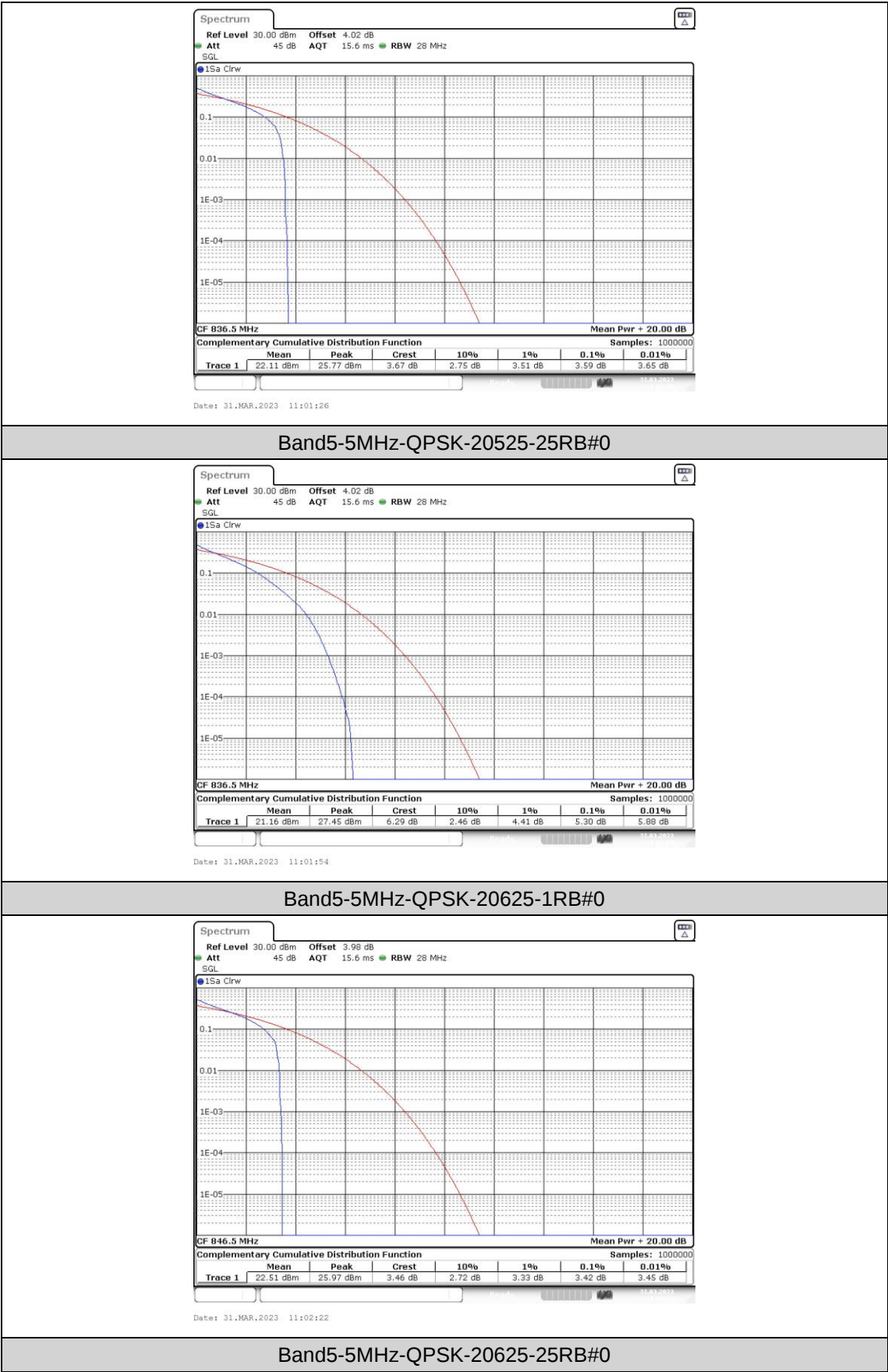


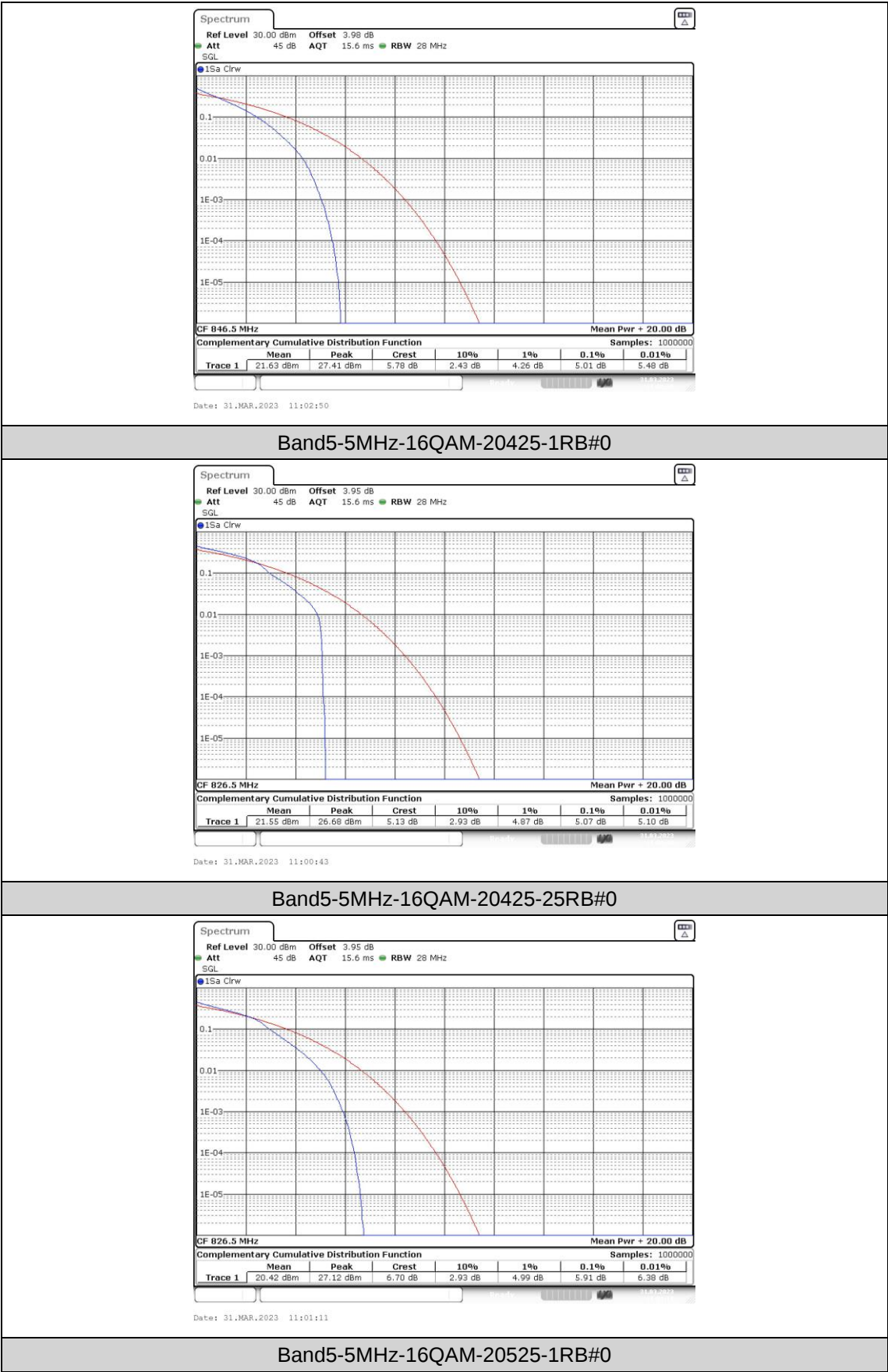


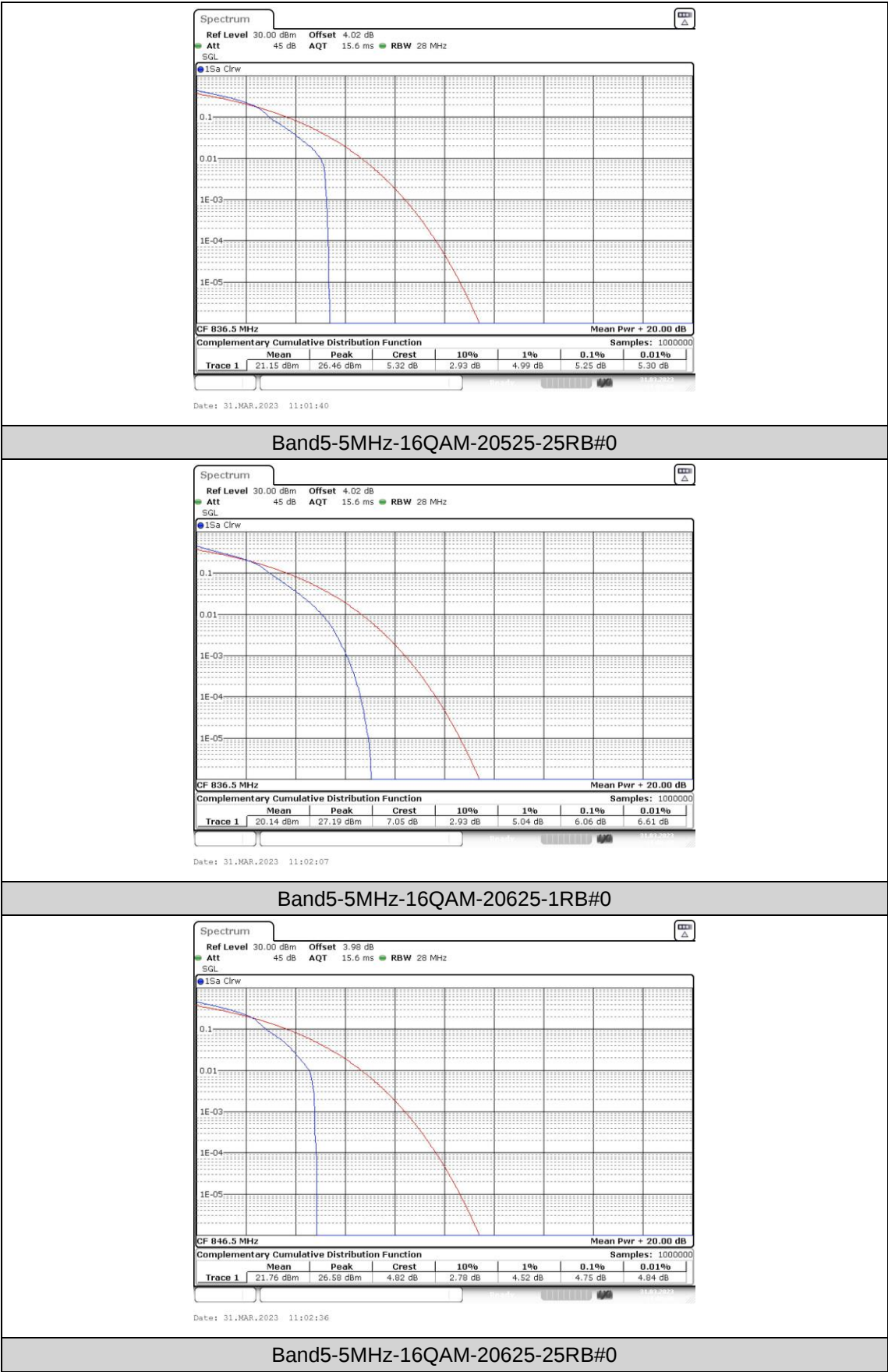


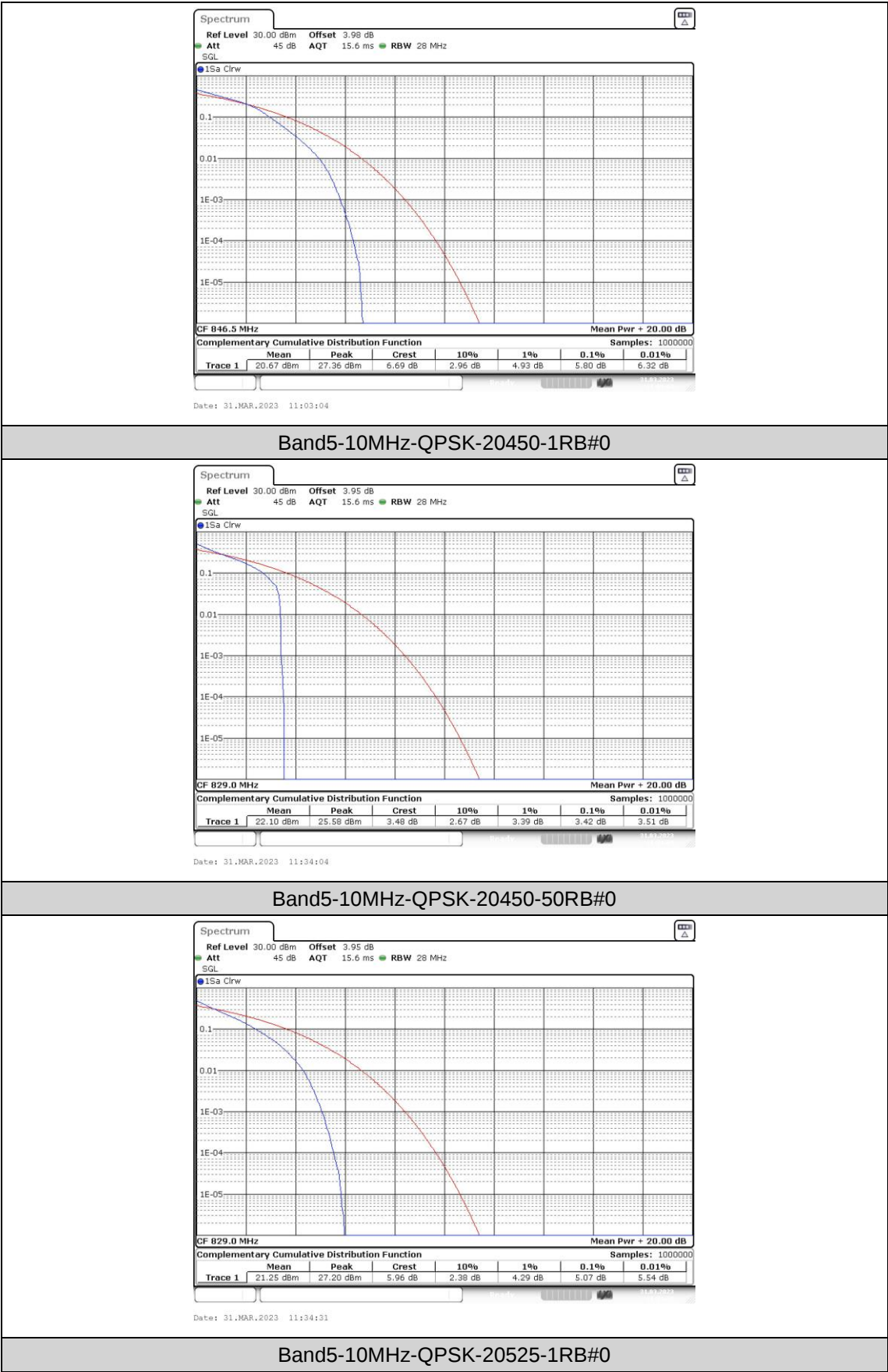


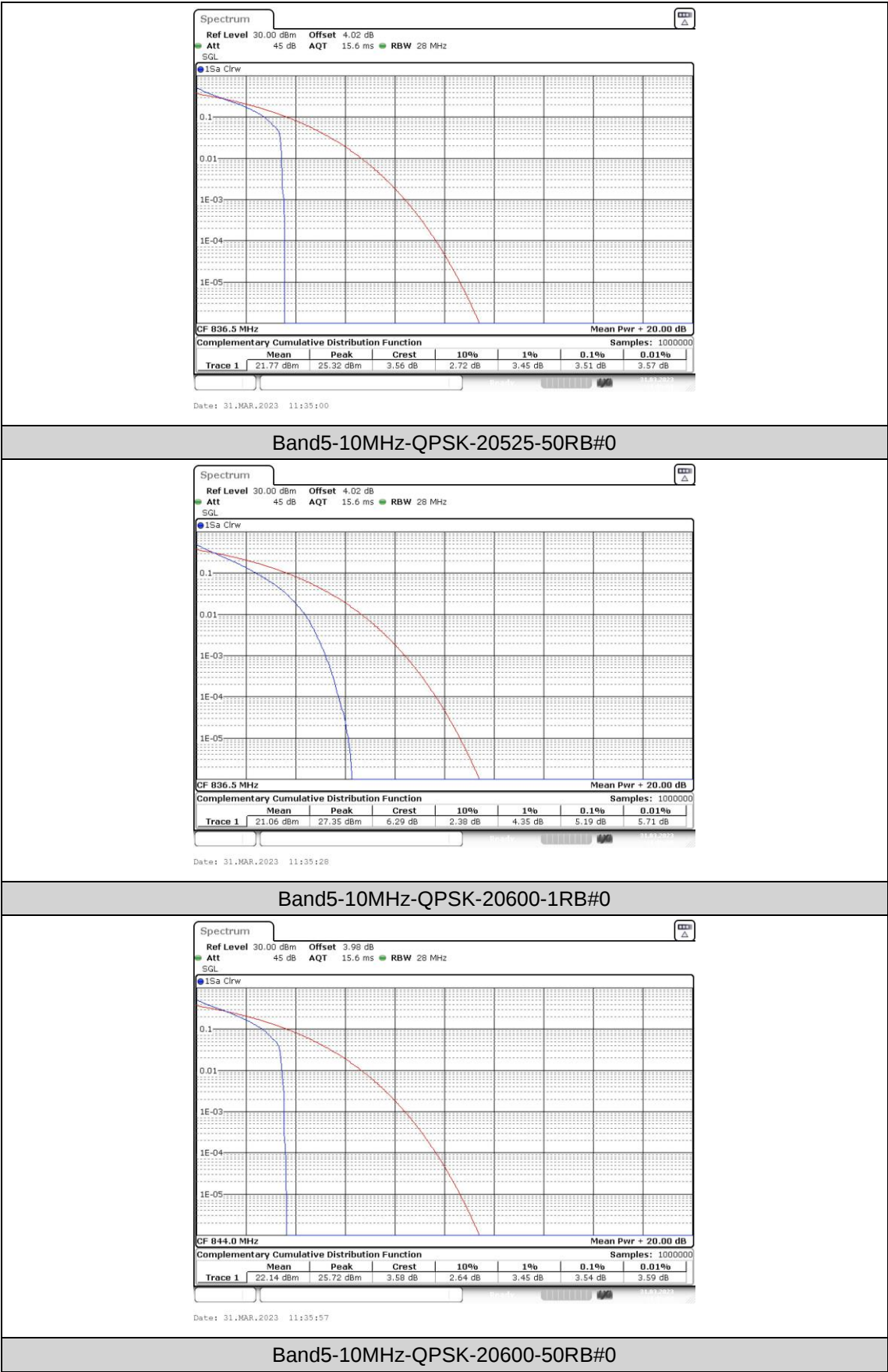


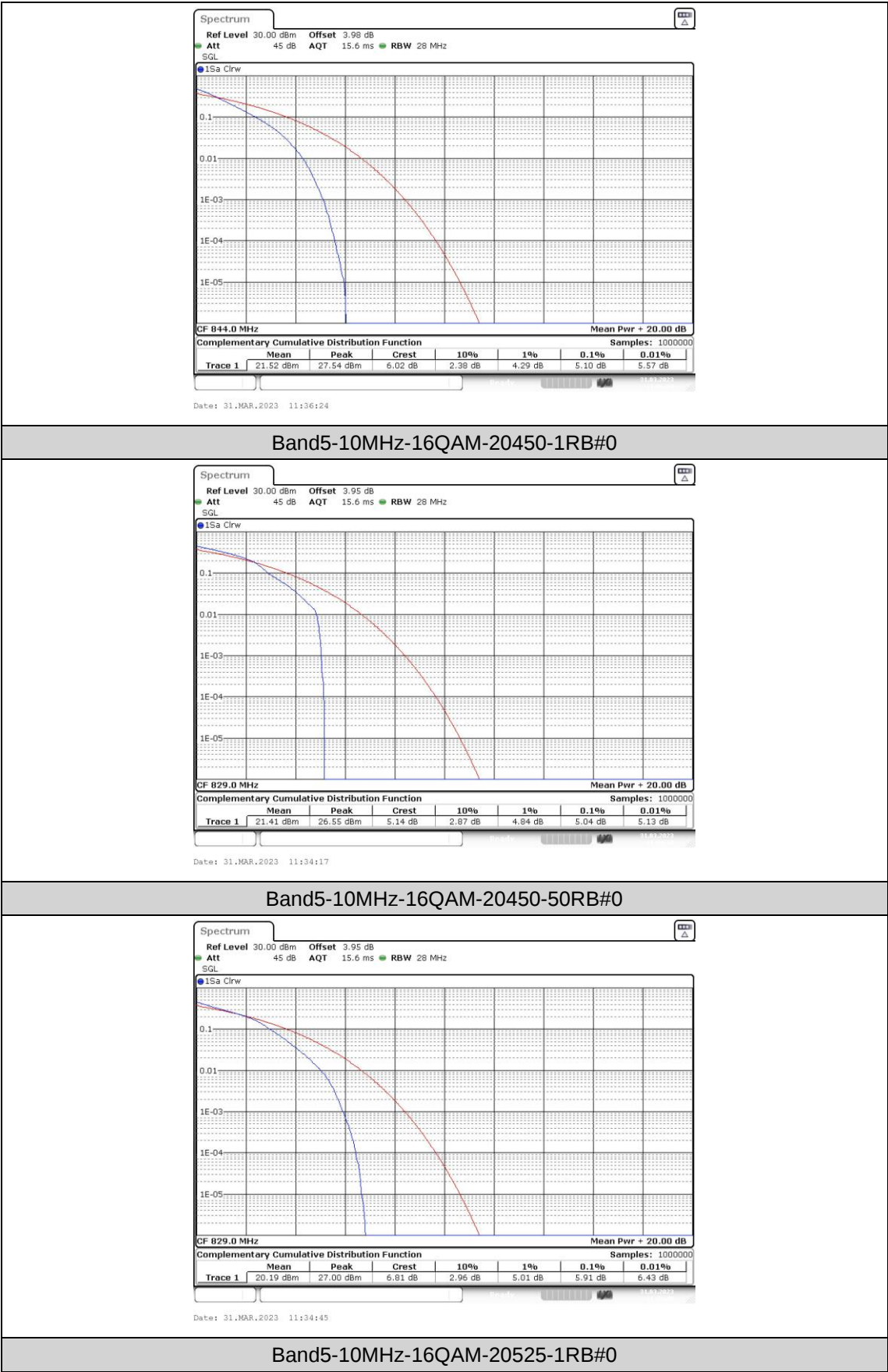


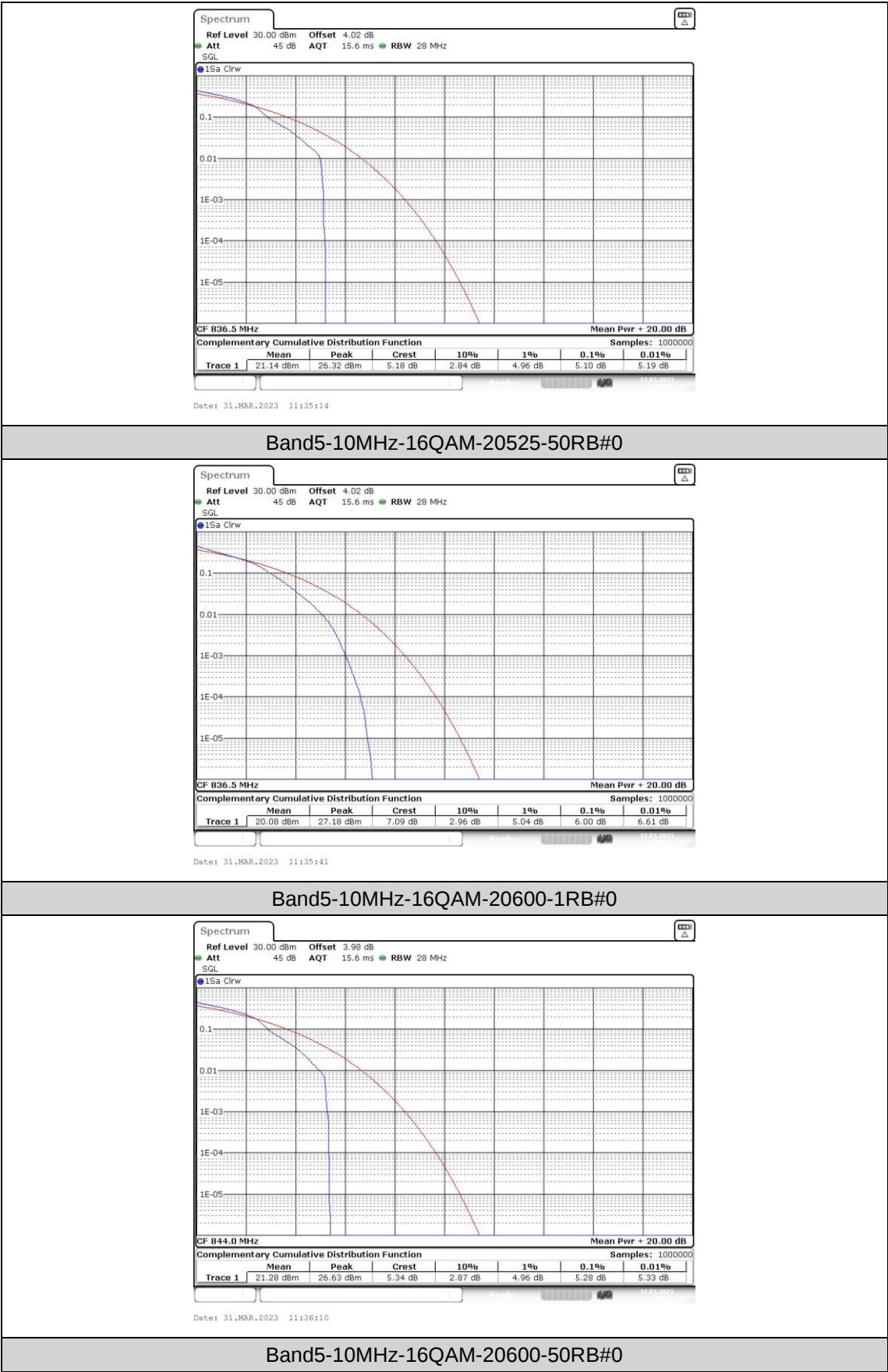












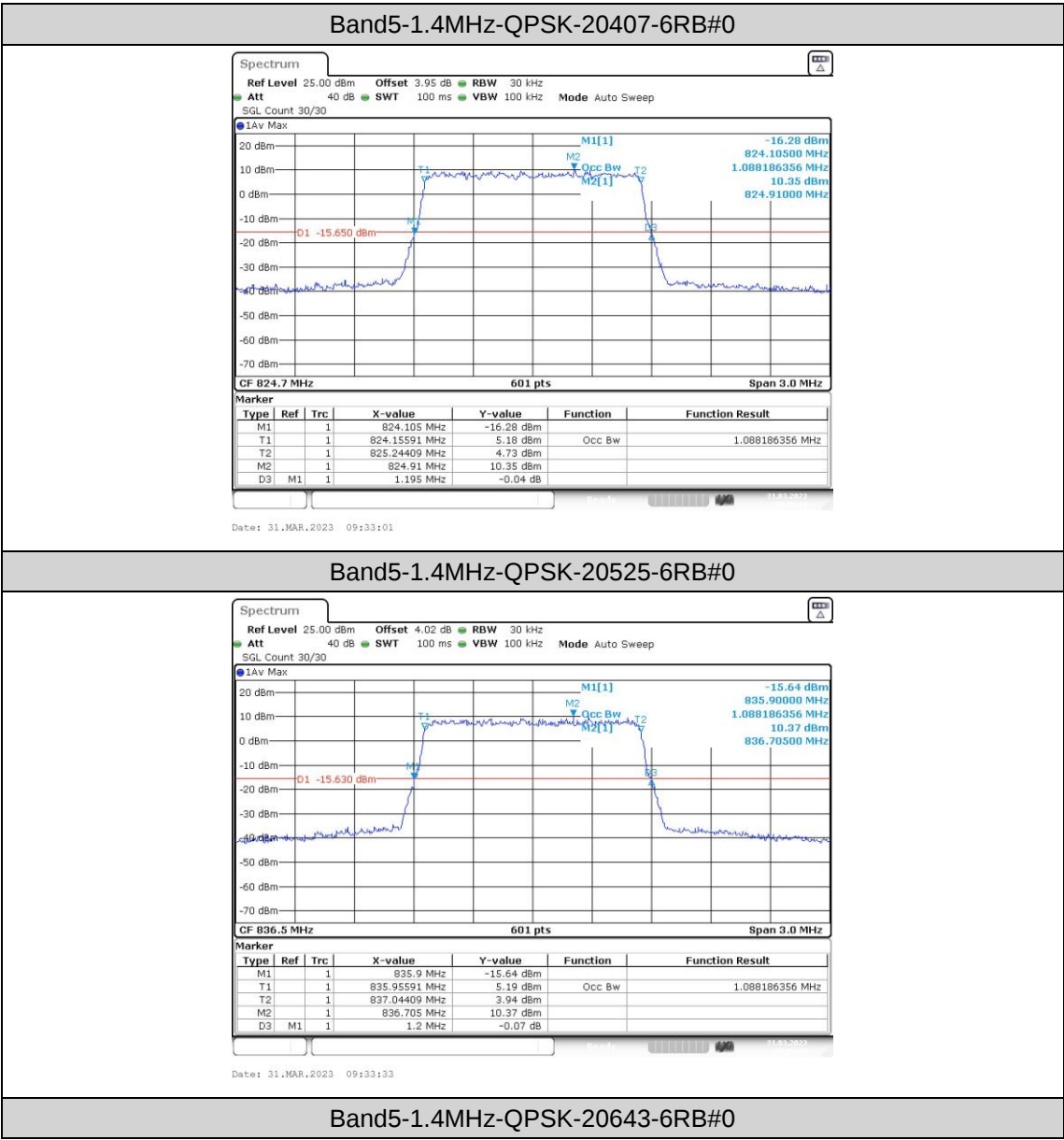


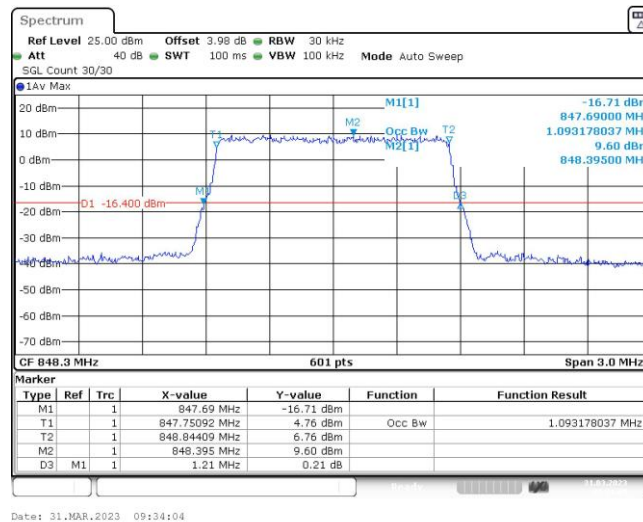
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

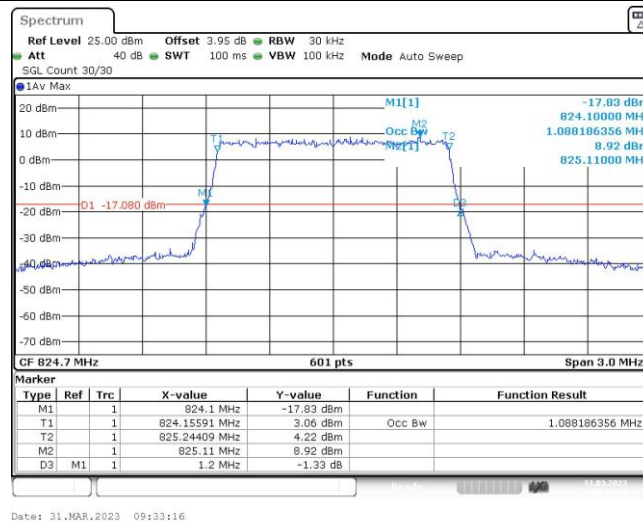
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.088	1.20	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.20	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.093	1.21	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.20	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.21	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.21	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	2.87	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.686	2.84	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.696	2.86	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.686	2.86	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.696	2.88	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	2.87	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.496	4.79	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.496	4.80	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.505	4.78	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.505	4.77	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.505	4.78	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.79	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.985	9.53	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.985	9.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.952	9.53	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.985	9.53	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.952	9.53	PASS

Test Graphs

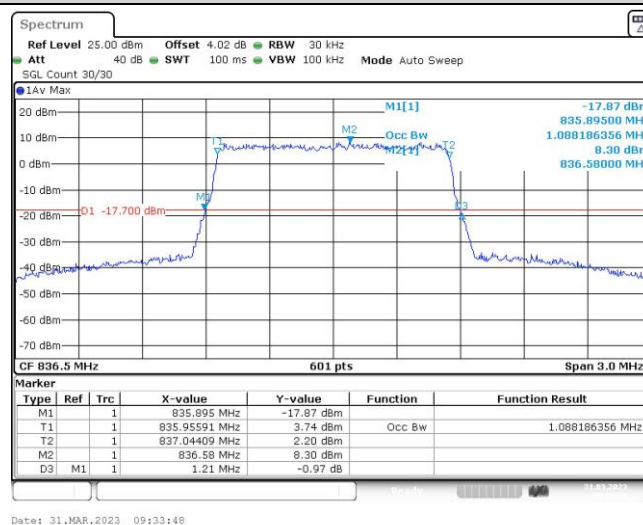




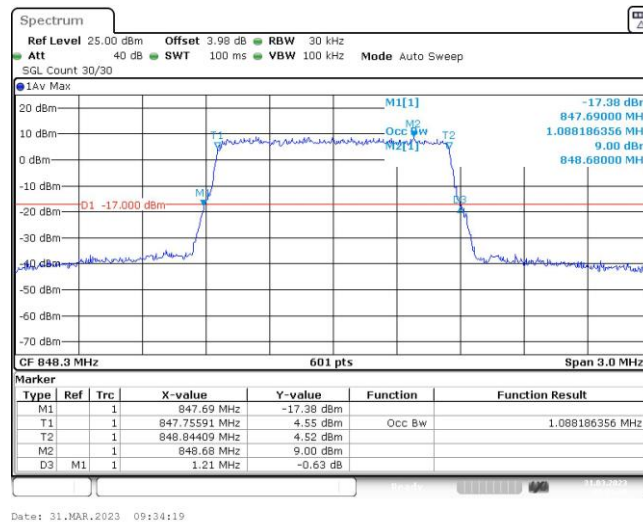
Band5-1.4MHz-16QAM-20407-6RB#0



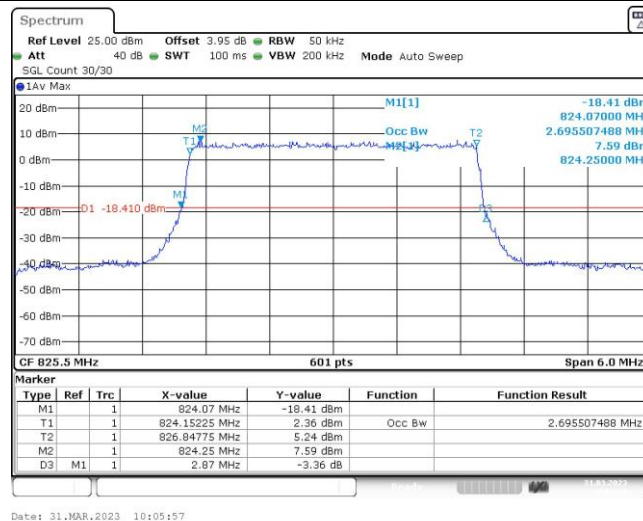
Band5-1.4MHz-16QAM-20525-6RB#0



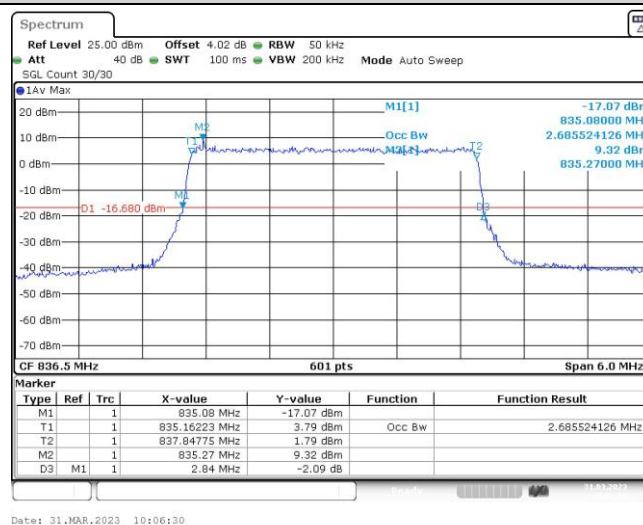
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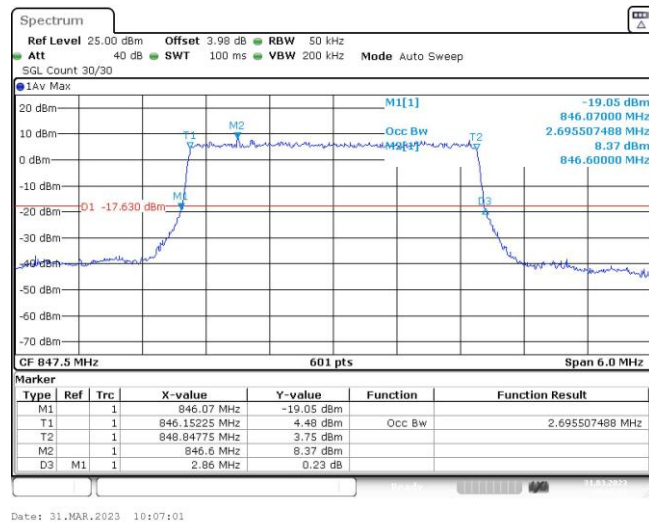
Band5-3MHz-QPSK-20415-15RB#0



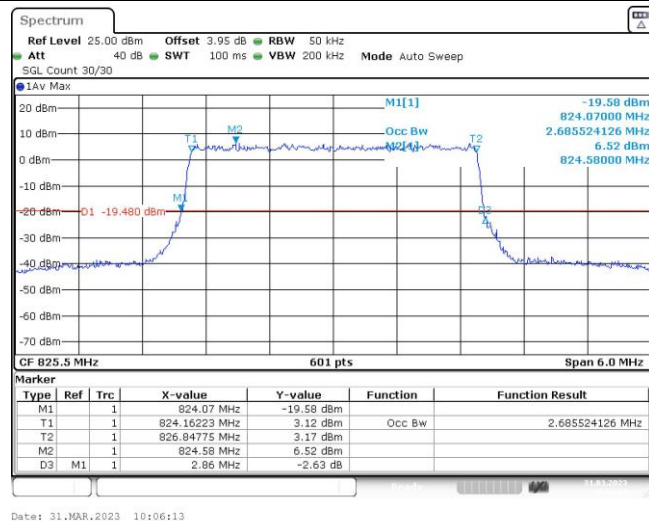
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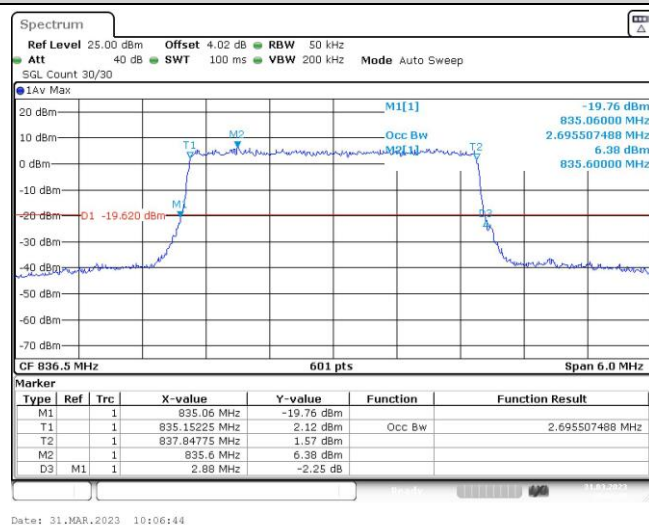
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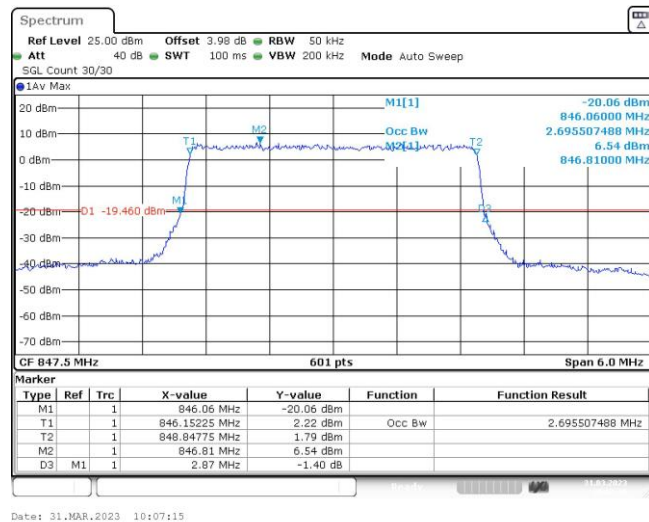
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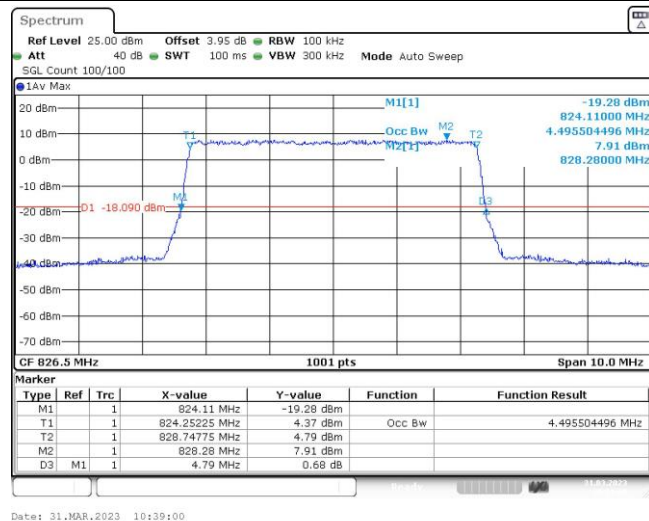
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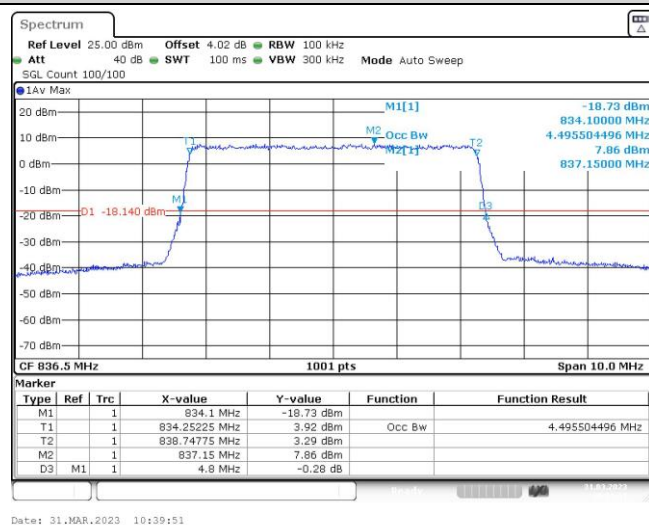
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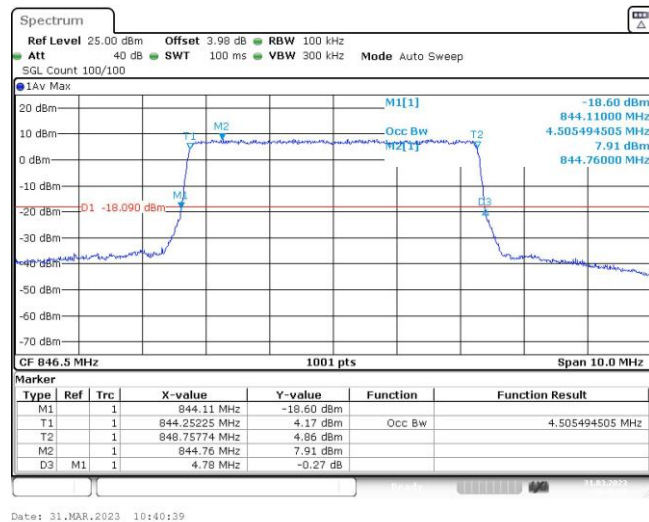
Band5-5MHz-QPSK-20425-25RB#0



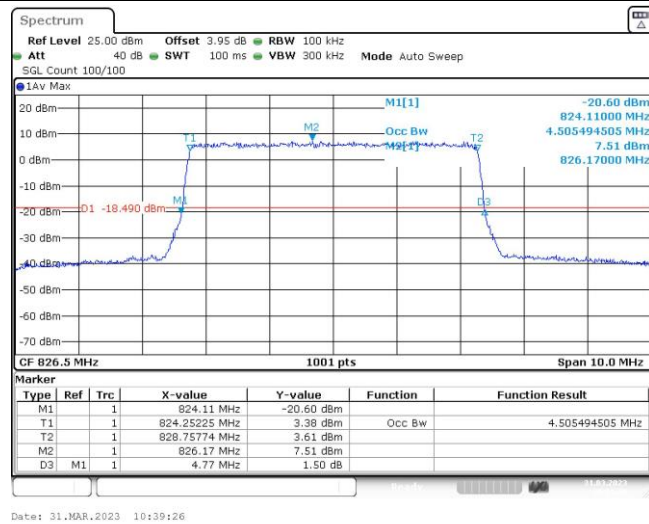
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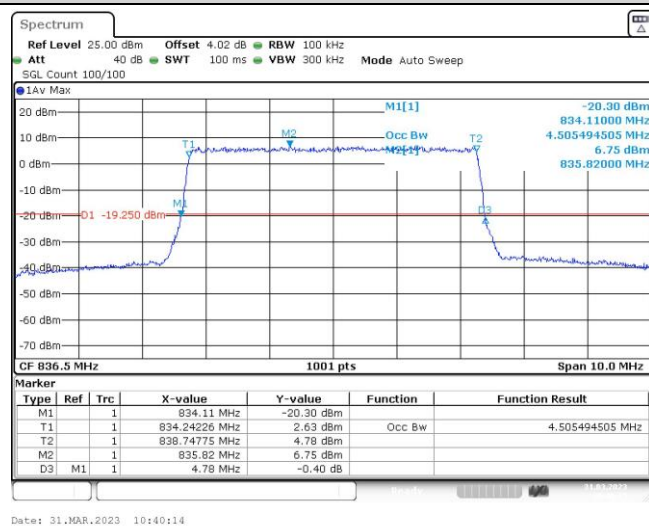
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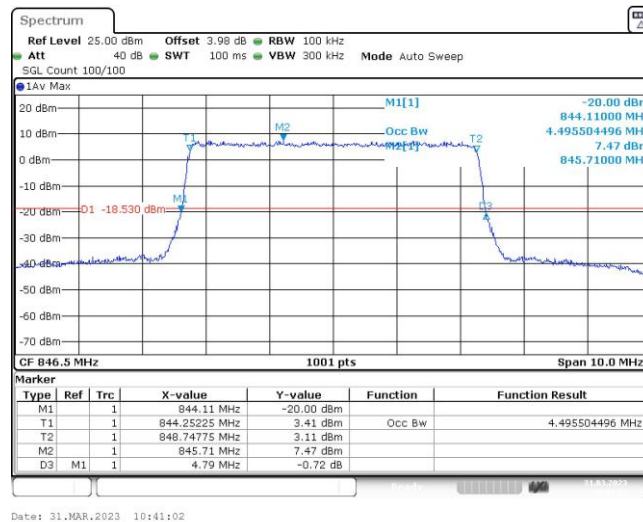
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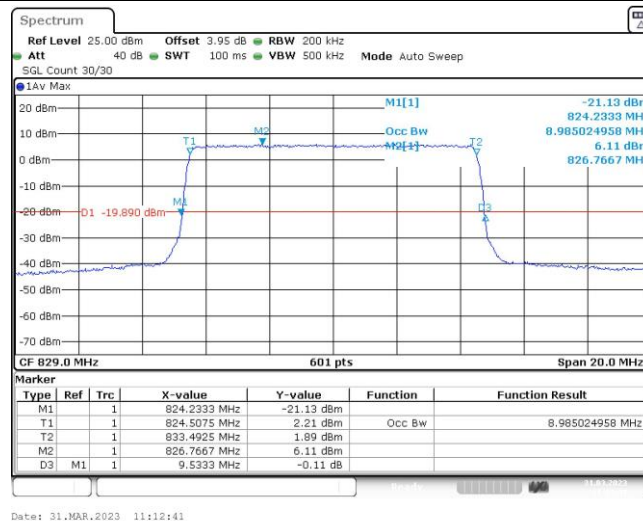
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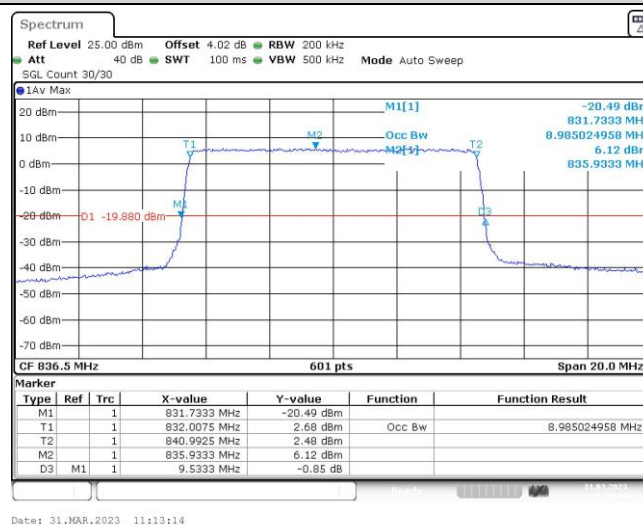
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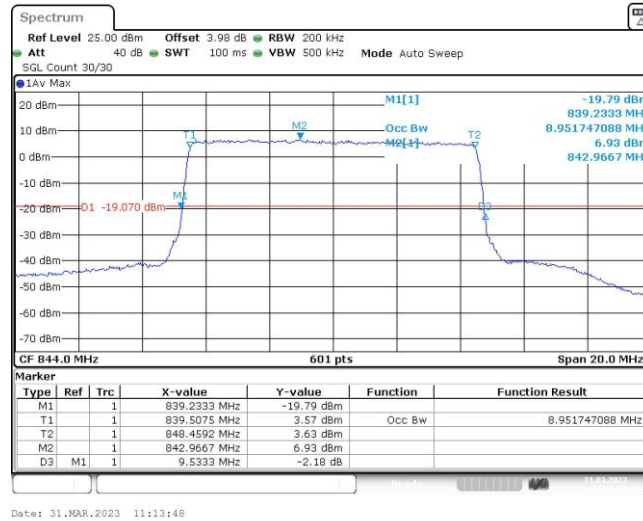
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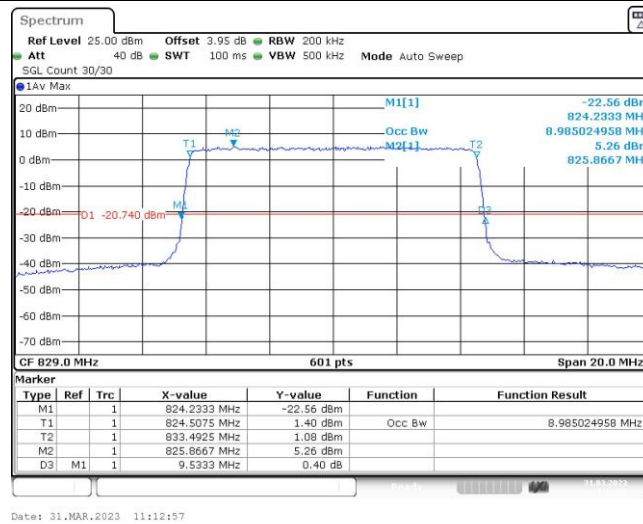
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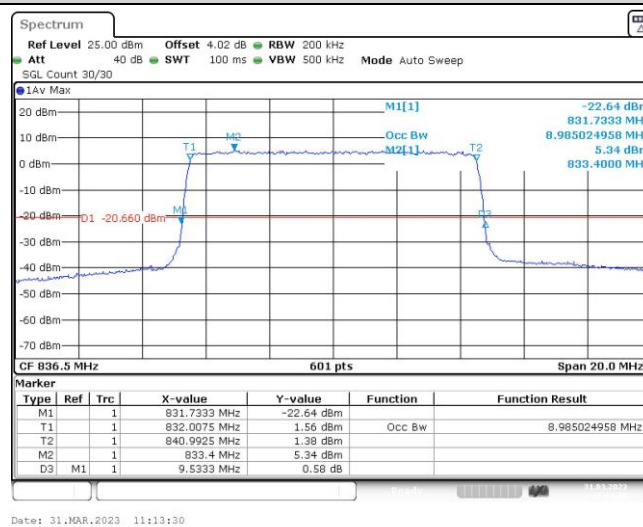
Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0