

Appendix for LTE Band 41

Product Name: 5G Window CPE

Model No: TITAN 5100

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.74	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.57	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.67	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.67	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.68	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.55	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.69	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.70	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.74	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.70	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.72	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.77	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.76	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.70	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.01	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.05	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.10	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.04	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.04	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.01	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.12	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.13	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.11	PASS
Band41	5MHz	16QAM	40620	12RB#6	21.09	PASS
Band41	5MHz	QPSK	40620	12RB#13	22.14	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.21	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.15	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.14	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.50	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.26	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.54	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.56	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.58	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.27	PASS
Band41	5MHz	QPSK	41565	12RB#0	21.56	PASS

Band41	5MHz	16QAM	41565	12RB#0	20.48	PASS
Band41	5MHz	QPSK	41565	12RB#6	21.53	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.45	PASS
Band41	5MHz	QPSK	41565	12RB#13	21.55	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.49	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.49	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.54	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.77	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.68	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.76	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.79	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.70	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.61	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.75	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.74	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.74	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.74	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.79	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.83	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.76	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.77	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.08	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.12	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.10	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.15	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.03	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.99	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.16	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.17	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.15	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.19	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.10	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.05	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.20	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.19	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.50	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.60	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.47	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.52	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.45	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.54	PASS
Band41	10MHz	QPSK	41540	25RB#0	21.55	PASS

Band41	10MHz	16QAM	41540	25RB#0	20.60	PASS
Band41	10MHz	QPSK	41540	25RB#12	21.58	PASS
Band41	10MHz	16QAM	41540	25RB#12	20.58	PASS
Band41	10MHz	QPSK	41540	25RB#25	21.57	PASS
Band41	10MHz	16QAM	41540	25RB#25	20.59	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.60	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.58	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.54	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.64	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.53	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.72	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.45	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.58	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.53	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.62	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.55	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.55	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.53	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.54	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.54	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.55	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.07	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.07	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.01	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.06	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.03	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.04	PASS
Band41	15MHz	QPSK	40620	38RB#0	22.02	PASS
Band41	15MHz	16QAM	40620	38RB#0	22.01	PASS
Band41	15MHz	QPSK	40620	38RB#18	22.03	PASS
Band41	15MHz	16QAM	40620	38RB#18	22.01	PASS
Band41	15MHz	QPSK	40620	38RB#37	22.04	PASS
Band41	15MHz	16QAM	40620	38RB#37	22.05	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.04	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.05	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.36	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.46	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.32	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.42	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.30	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.39	PASS
Band41	15MHz	QPSK	41515	38RB#0	21.43	PASS

Band41	15MHz	16QAM	41515	38RB#0	21.39	PASS
Band41	15MHz	QPSK	41515	38RB#18	21.38	PASS
Band41	15MHz	16QAM	41515	38RB#18	21.39	PASS
Band41	15MHz	QPSK	41515	38RB#37	21.40	PASS
Band41	15MHz	16QAM	41515	38RB#37	21.46	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.38	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.42	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.62	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.53	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.57	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.47	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.70	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.49	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.65	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.69	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.66	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.64	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.61	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.60	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.62	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.61	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.12	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.17	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.98	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.16	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.91	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.07	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.12	PASS
Band41	20MHz	16QAM	40620	50RB#0	21.12	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.10	PASS
Band41	20MHz	16QAM	40620	50RB#25	21.14	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.98	PASS
Band41	20MHz	16QAM	40620	50RB#50	21.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.06	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.06	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.44	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.34	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.40	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.43	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.31	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.39	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.47	PASS

Band41	20MHz	16QAM	41490	50RB#0	20.52	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.48	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.52	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.45	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.47	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.47	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.47	PASS

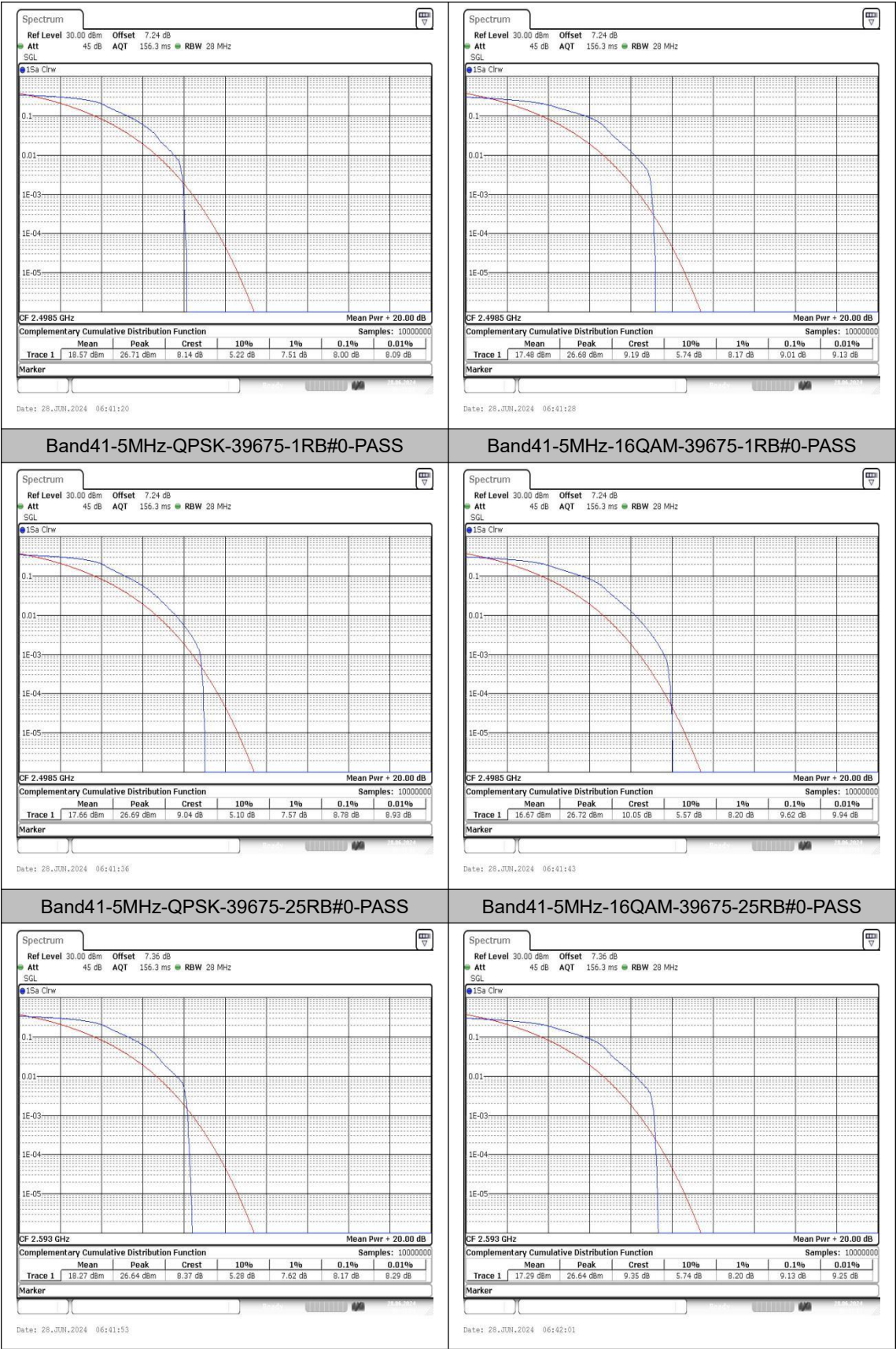
Appendix B: Peak-to-Average Ratio(CCDF)

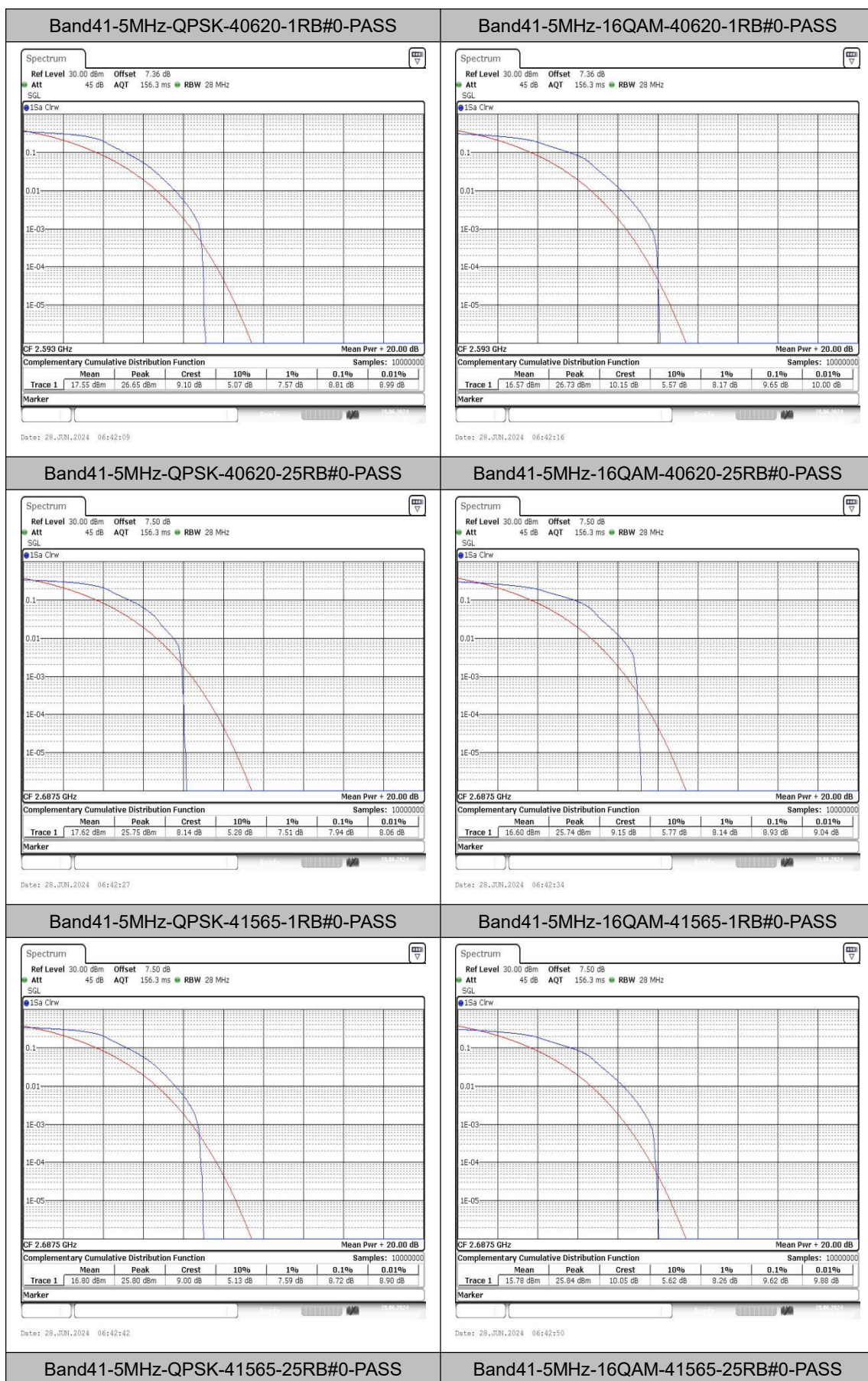
Test Result

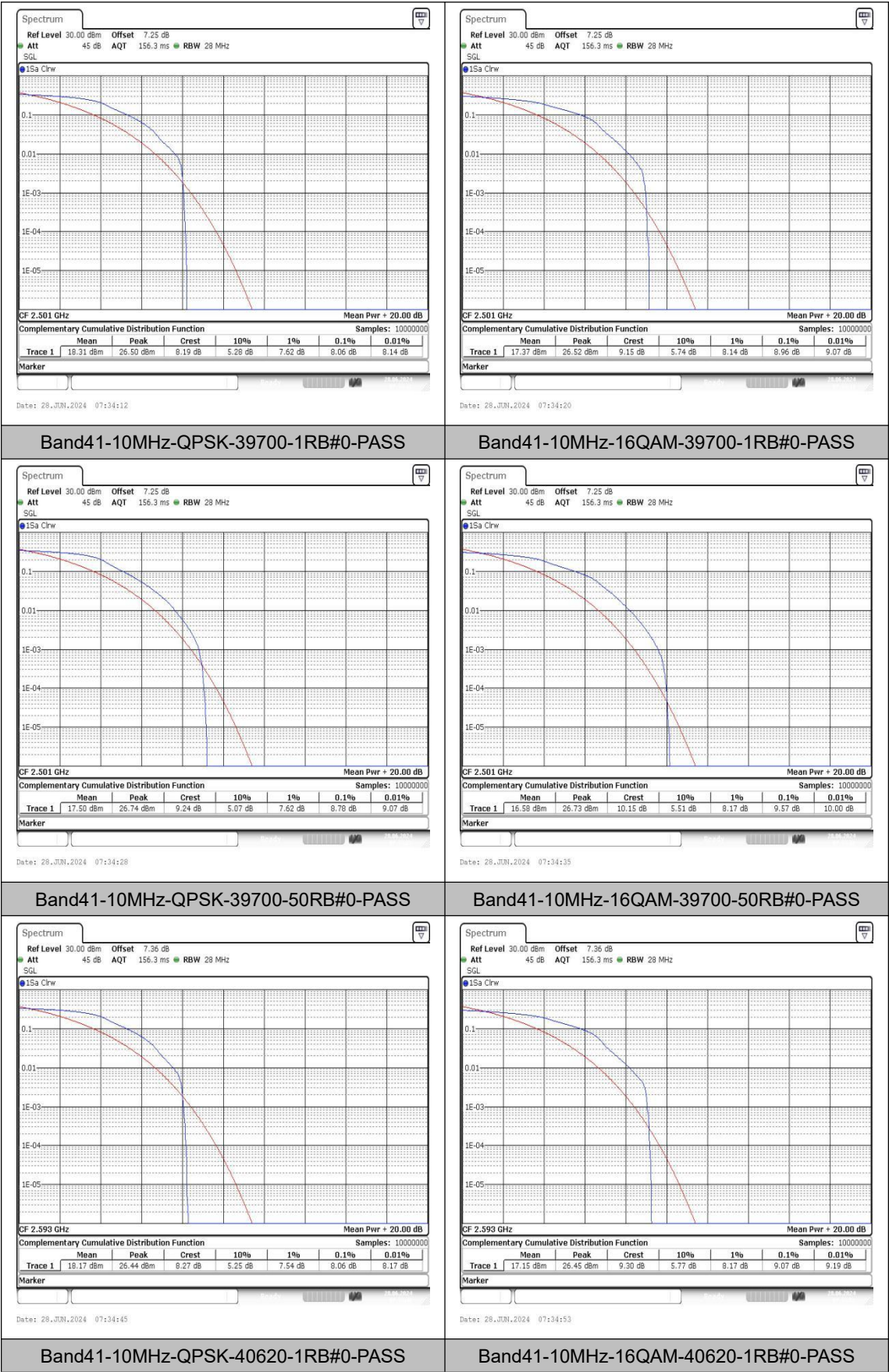
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.00	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	9.01	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.78	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.62	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.17	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	9.13	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	8.81	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.65	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	7.94	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.93	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	8.72	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.62	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	8.06	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.96	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.78	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.57	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.06	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	9.07	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.90	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.65	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	7.97	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	9.01	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.72	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.57	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.03	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	9.04	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	8.99	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.77	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.17	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.13	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	8.87	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.74	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.06	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	8.96	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	8.90	13	PASS

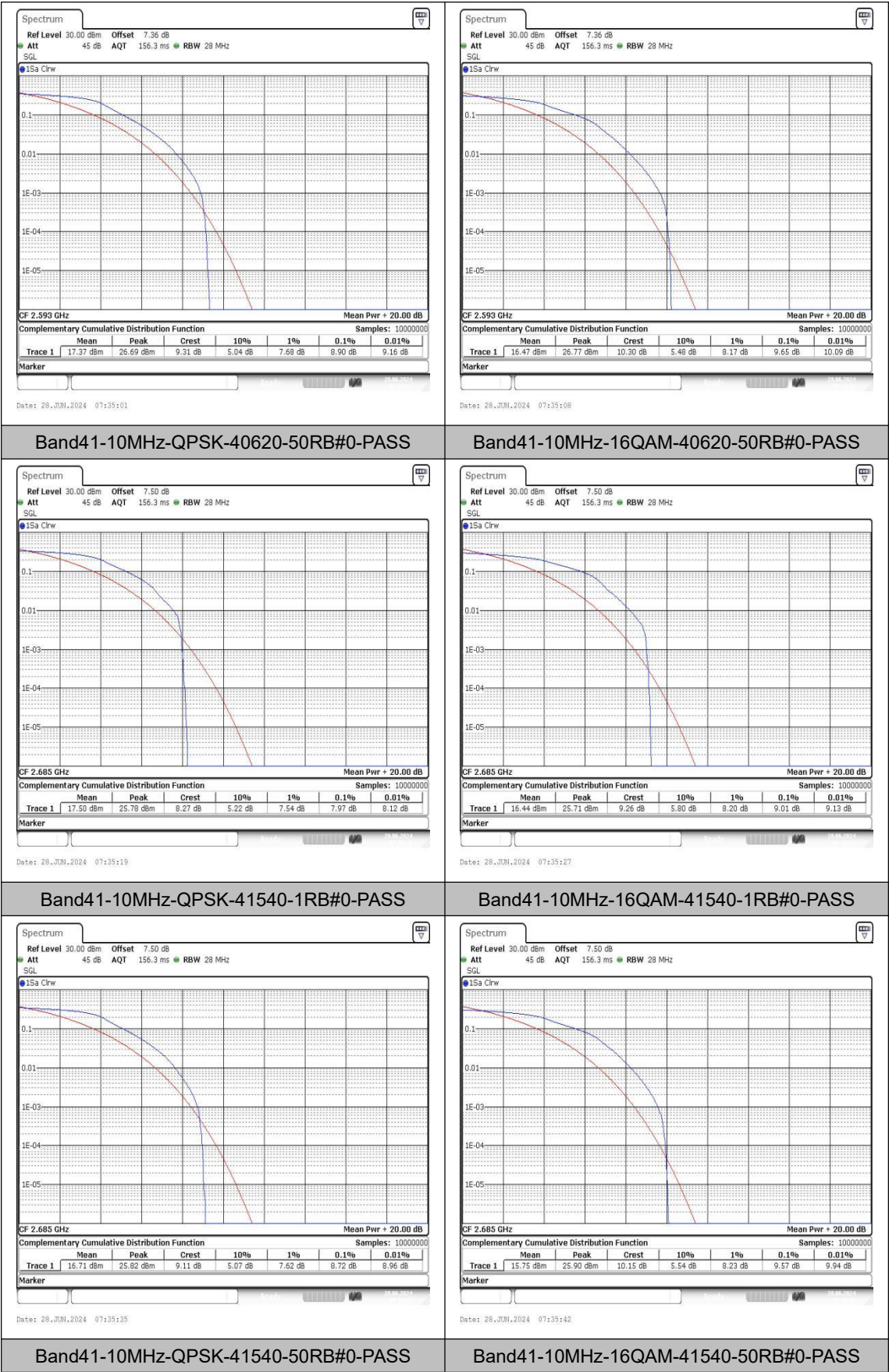
Band41	15MHz	16QAM	41515	75RB#0	9.77	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	7.88	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	8.99	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	8.72	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.59	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.14	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	9.01	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.78	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.59	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	8.03	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.96	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.75	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.57	13	PASS

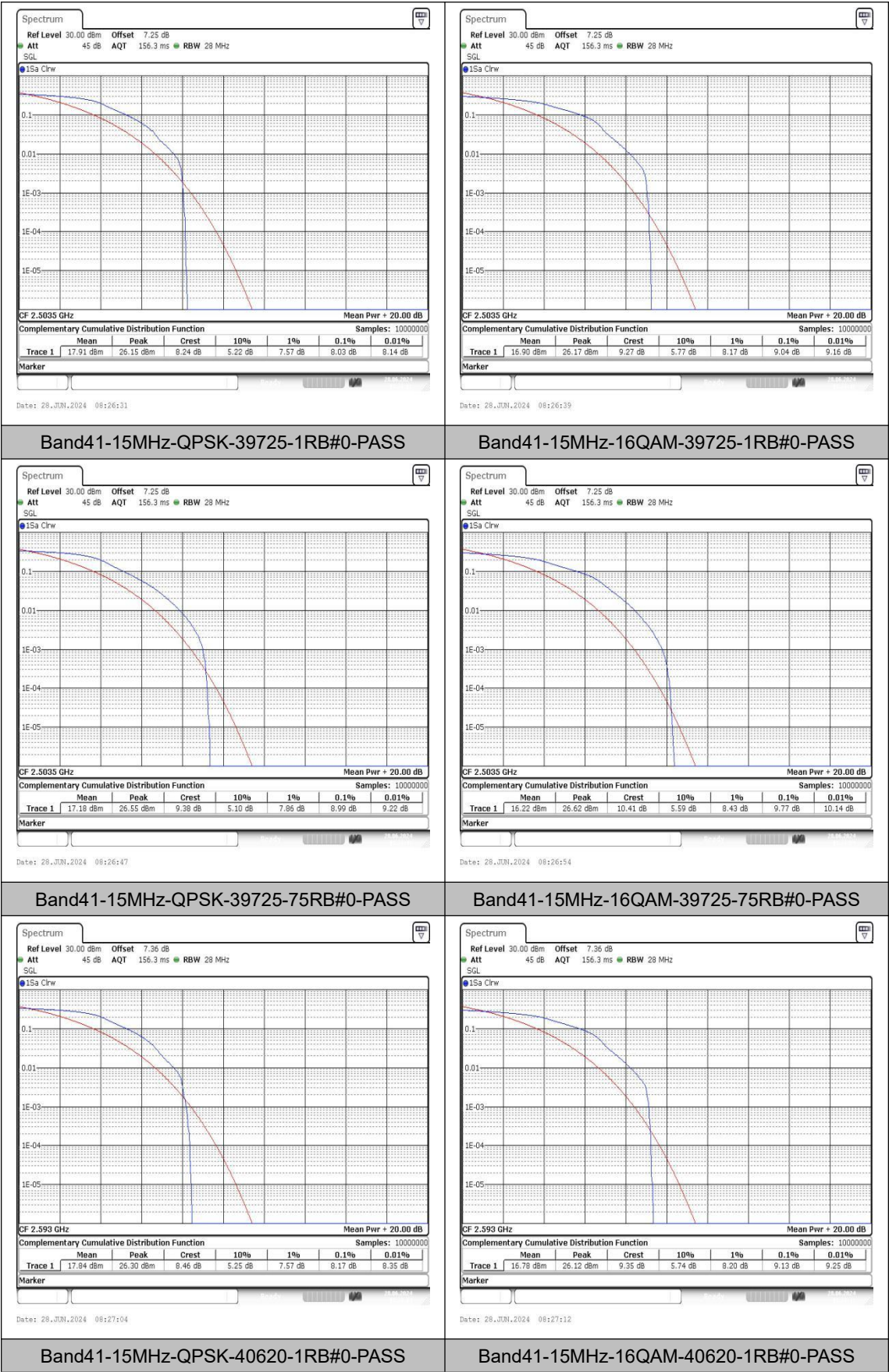
Test Graphs

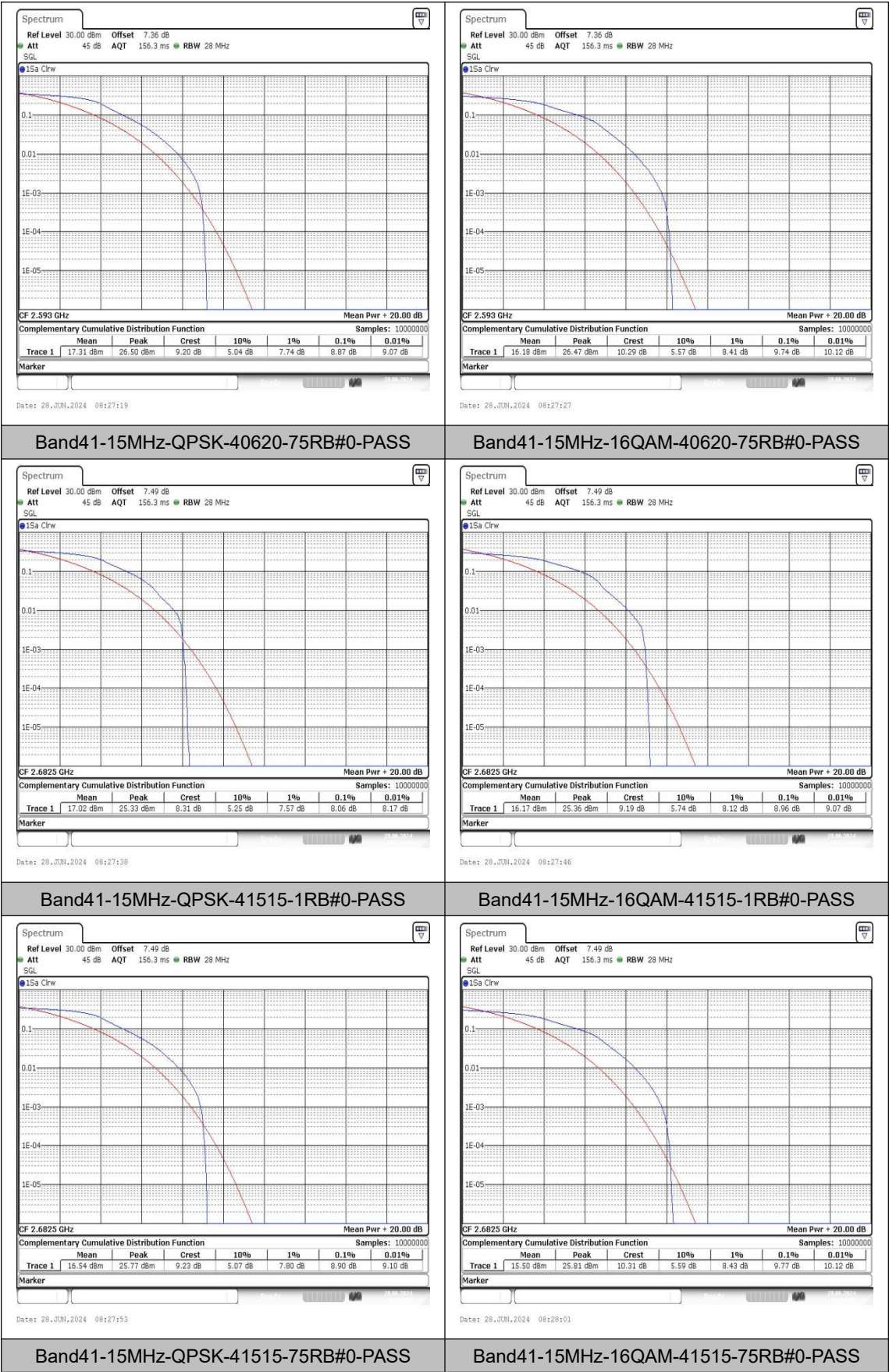


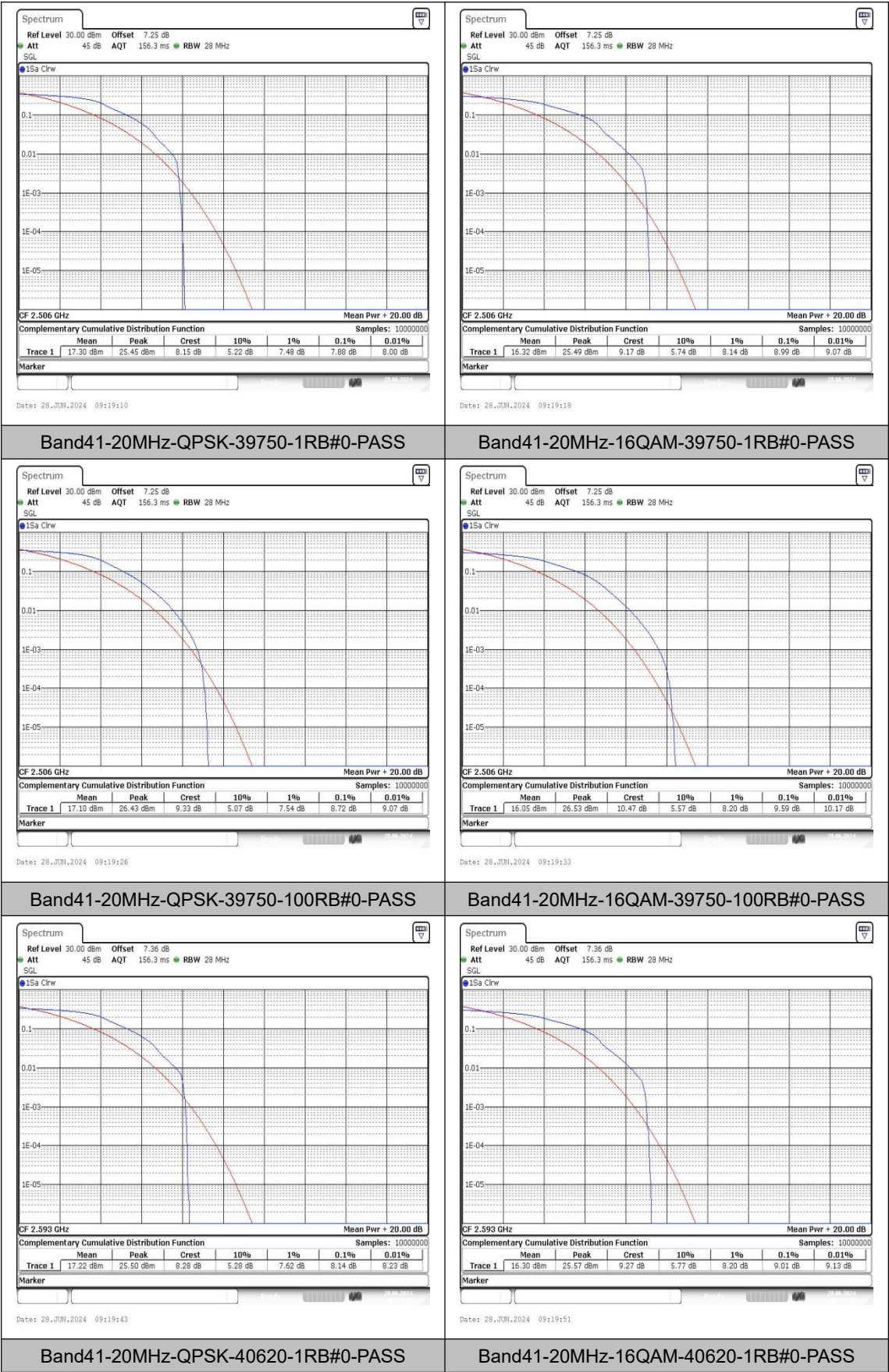


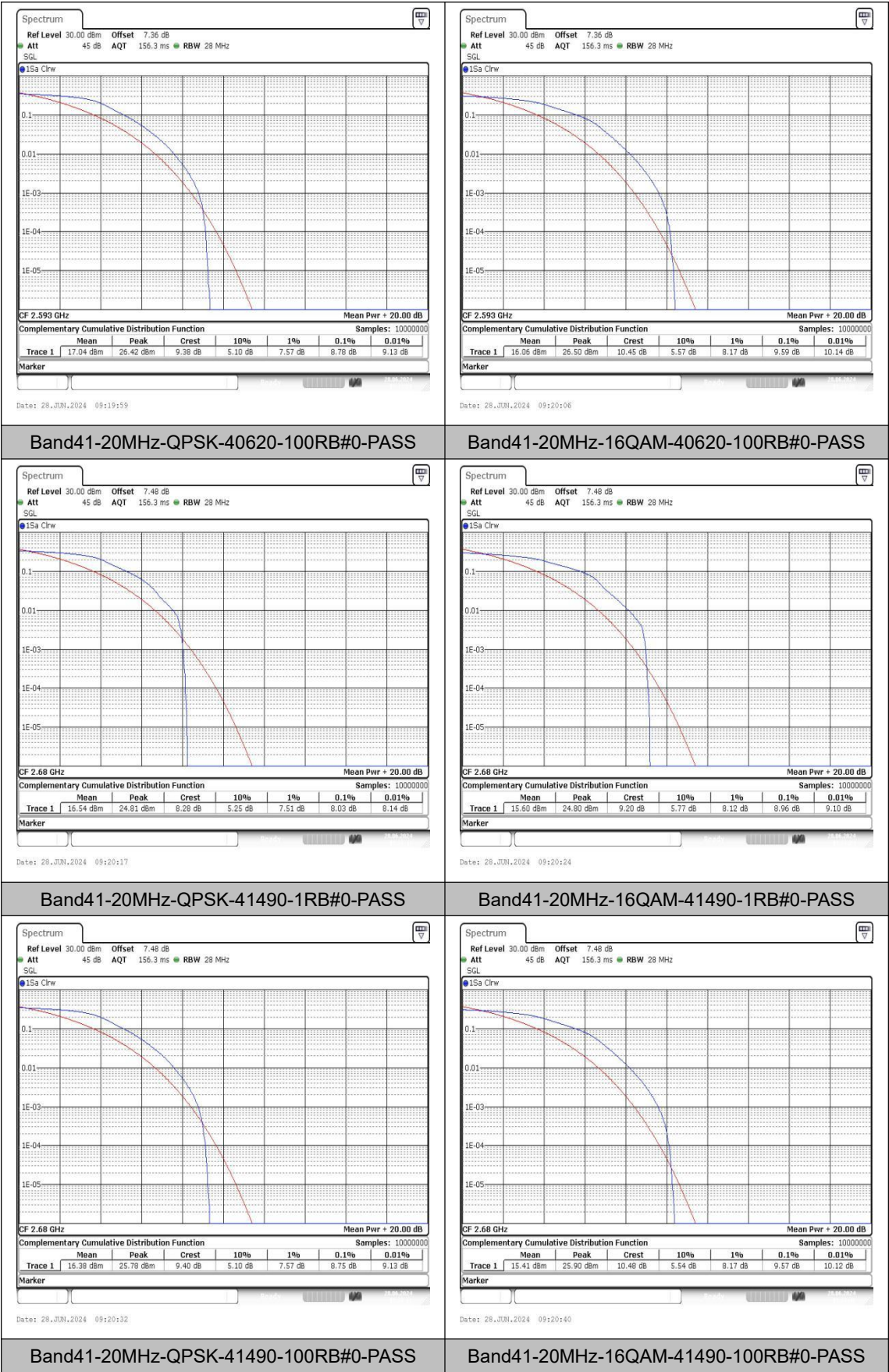










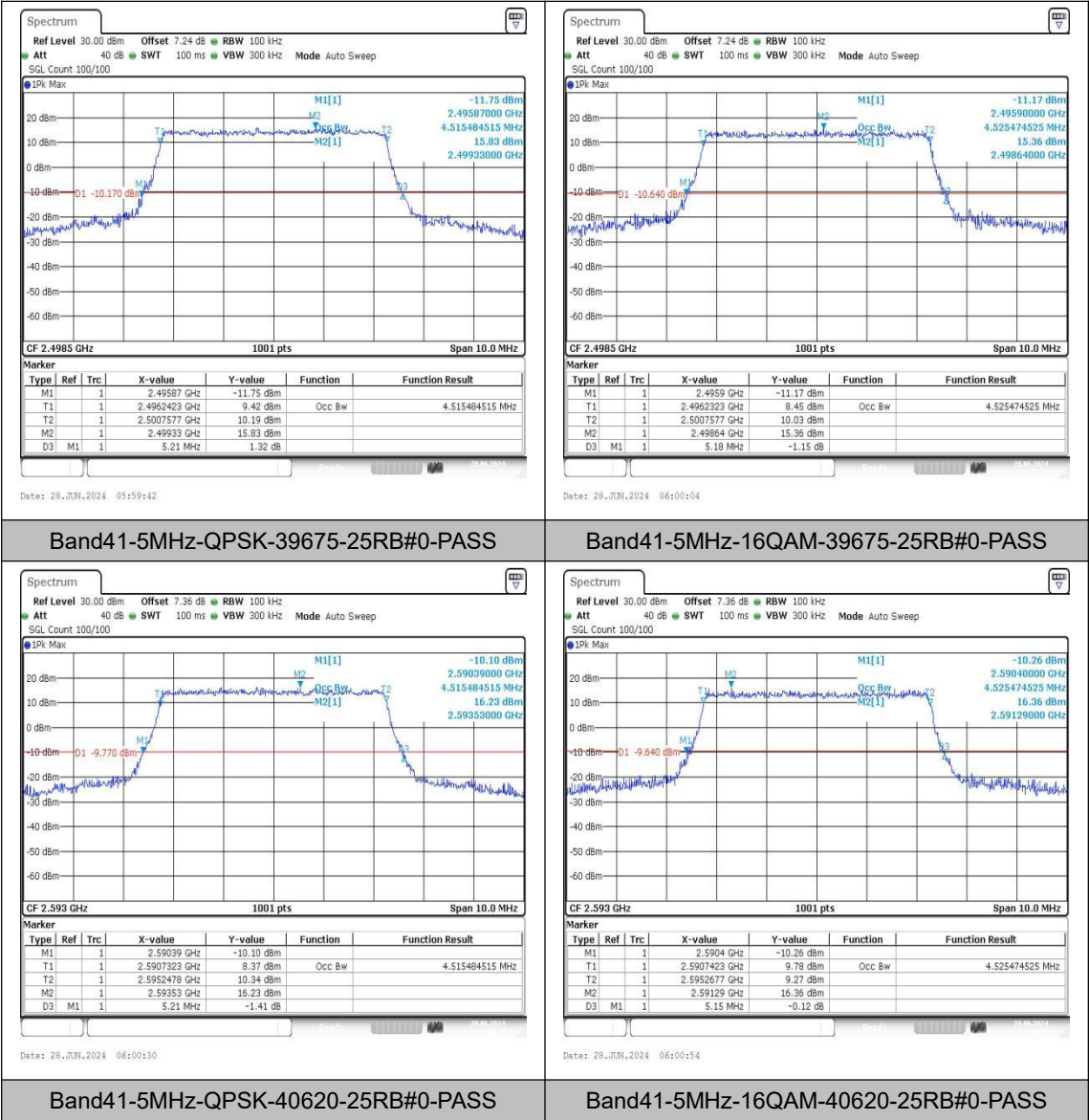


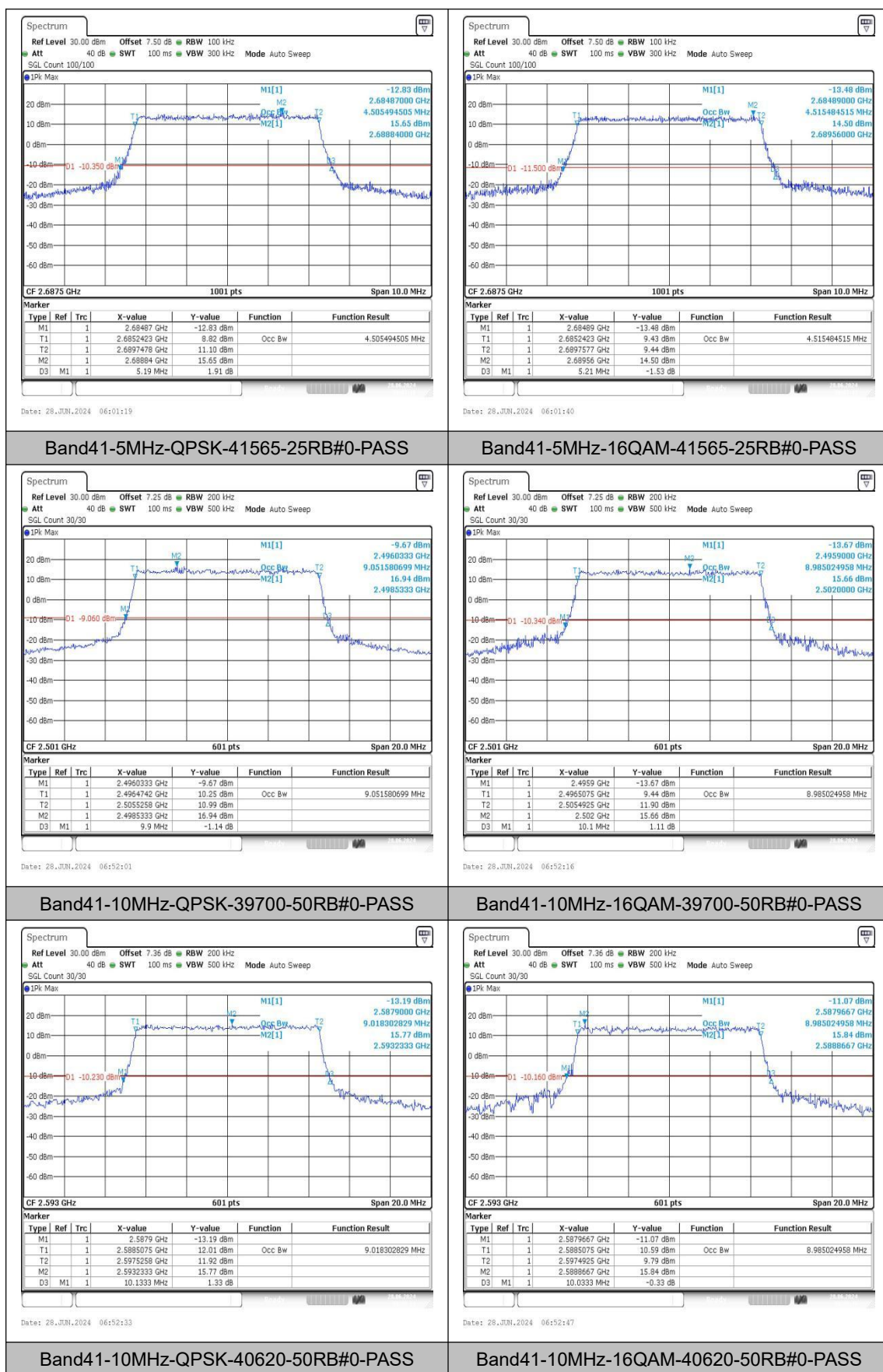
Appendix C: 26dB Bandwidth and Occupied Bandwidth

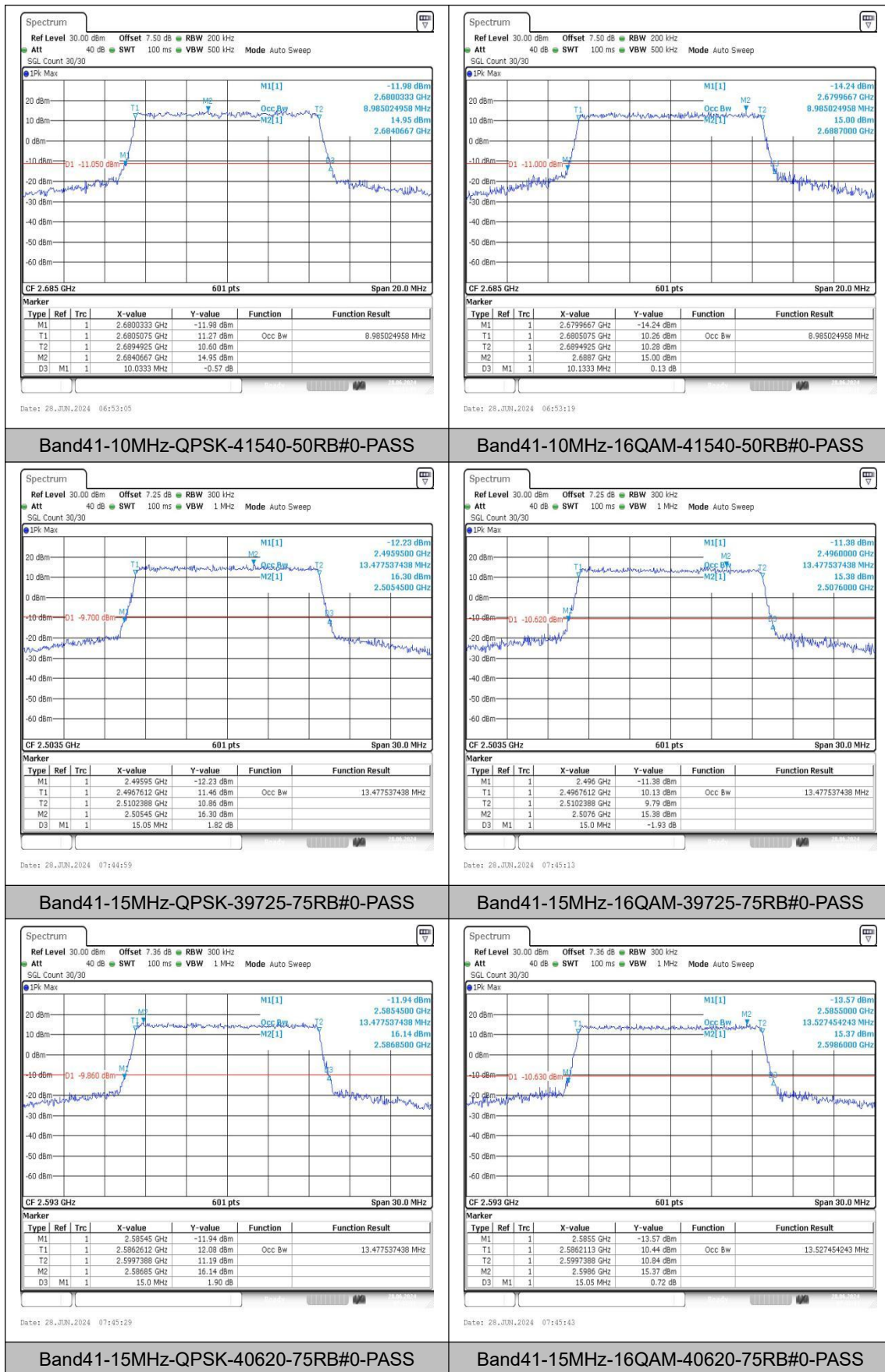
Test Result

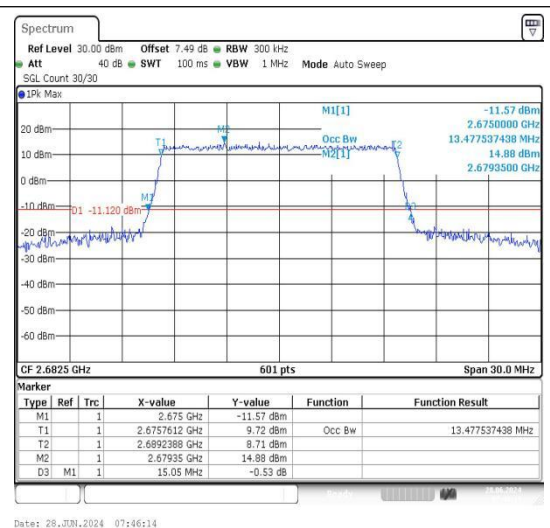
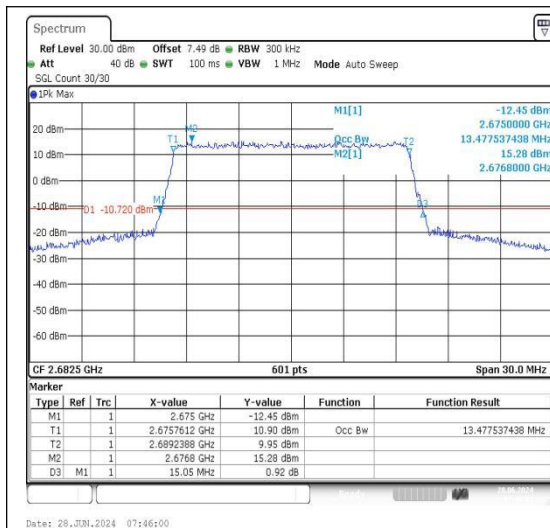
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.515	5.21	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.525	5.18	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.515	5.21	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.525	5.15	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.505	5.19	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.515	5.21	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.052	9.90	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.985	10.10	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.018	10.13	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.985	10.03	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.985	10.03	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.985	10.13	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.478	15.05	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.478	15.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.478	15.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.527	15.05	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.478	15.05	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.478	15.05	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.037	20.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.037	20.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	18.103	20.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.97	20.13	PASS
Band41	20MHz	QPSK	41490	100RB#0	18.103	20.13	PASS
Band41	20MHz	16QAM	41490	100RB#0	18.037	20.13	PASS

Test Graphs



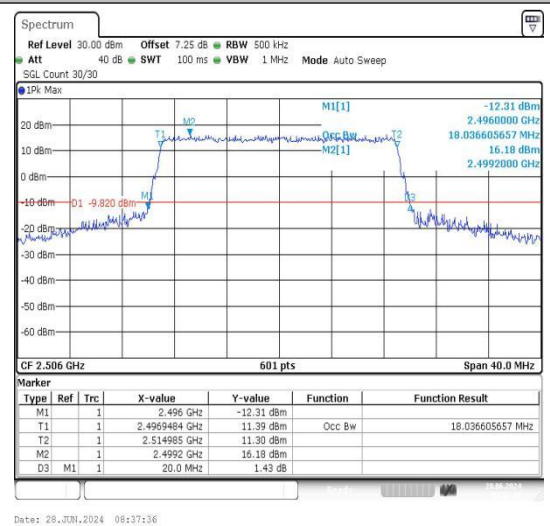
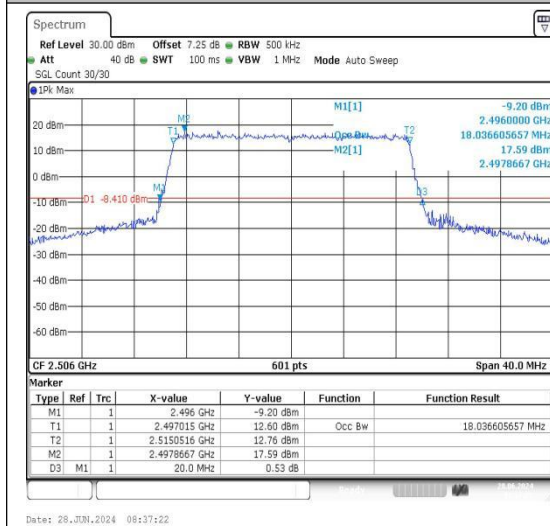






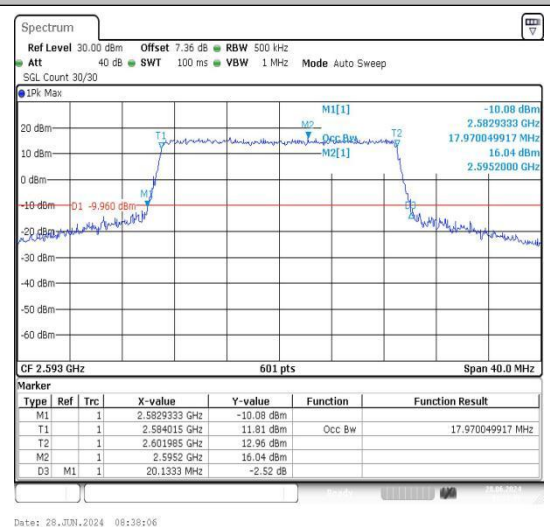
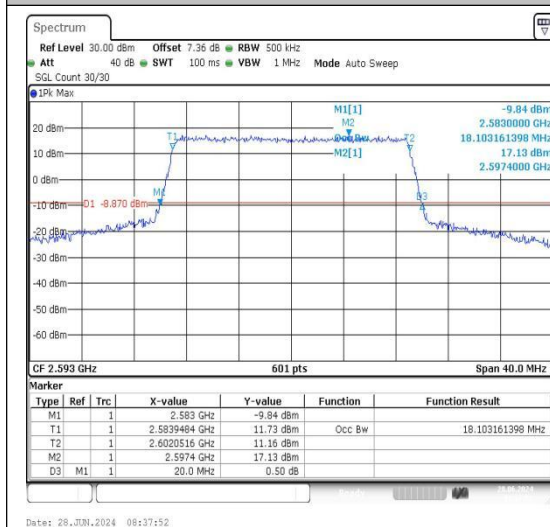
Band41-15MHz-QPSK-41515-75RB#0-PASS

Band41-15MHz-16QAM-41515-75RB#0-PASS



Band41-20MHz-QPSK-39750-100RB#0-PASS

Band41-20MHz-16QAM-39750-100RB#0-PASS



Band41-20MHz-QPSK-40620-100RB#0-PASS

Band41-20MHz-16QAM-40620-100RB#0-PASS