

Appendix for LTE Band12

CONTENTS

Appendix A: Effective (Isotropic) Radiated Power Output Data3
 Test Result 3
Appendix B: Peak-to-Average Ratio(CCDF)7
 Test Result 7
 Test Graphs9
Appendix C: 26dB Bandwidth and Occupied Bandwidth 24
 Test Result 24
 Test Graphs25
Appendix D: Band Edge33
 Test Result 33
 Test Graphs34
Appendix E: Conducted Spurious Emission 49
 Test Result 49
 Test Graphs51
Appendix F: Frequency Stability 66
 Test Result 66

Appendix A: Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	3MHz	QPSK	23025	1RB#0	21.67	PASS
Band12	3MHz	QPSK	23025	1RB#8	21.58	PASS
Band12	3MHz	QPSK	23025	1RB#14	21.12	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.06	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.04	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.38	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.26	PASS
Band12	3MHz	QPSK	23095	1RB#0	21.63	PASS
Band12	3MHz	QPSK	23095	1RB#8	21.14	PASS
Band12	3MHz	QPSK	23095	1RB#14	21.85	PASS
Band12	3MHz	QPSK	23095	8RB#0	20.67	PASS
Band12	3MHz	QPSK	23095	8RB#4	20.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	20.82	PASS
Band12	3MHz	QPSK	23095	15RB#0	20.70	PASS
Band12	3MHz	QPSK	23165	1RB#0	21.01	PASS
Band12	3MHz	QPSK	23165	1RB#8	21.95	PASS
Band12	3MHz	QPSK	23165	1RB#14	21.76	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.56	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.63	PASS
Band12	3MHz	QPSK	23165	8RB#7	20.92	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.31	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.47	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.74	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.11	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.18	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.19	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.53	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.40	PASS
Band12	3MHz	16QAM	23095	1RB#0	20.52	PASS
Band12	3MHz	16QAM	23095	1RB#8	20.36	PASS

Band12	3MHz	16QAM	23095	1RB#14	20.85	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.92	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.90	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.93	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.80	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.74	PASS
Band12	3MHz	16QAM	23165	1RB#8	20.95	PASS
Band12	3MHz	16QAM	23165	1RB#14	20.52	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.76	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.84	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.03	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.46	PASS
Band12	5MHz	QPSK	23035	1RB#0	21.45	PASS
Band12	5MHz	QPSK	23035	1RB#12	21.92	PASS
Band12	5MHz	QPSK	23035	1RB#24	21.86	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.32	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.36	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.74	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.11	PASS
Band12	5MHz	QPSK	23095	1RB#0	21.22	PASS
Band12	5MHz	QPSK	23095	1RB#12	21.25	PASS
Band12	5MHz	QPSK	23095	1RB#24	21.05	PASS
Band12	5MHz	QPSK	23095	12RB#0	20.46	PASS
Band12	5MHz	QPSK	23095	12RB#6	20.44	PASS
Band12	5MHz	QPSK	23095	12RB#13	20.80	PASS
Band12	5MHz	QPSK	23095	25RB#0	20.63	PASS
Band12	5MHz	QPSK	23155	1RB#0	21.70	PASS
Band12	5MHz	QPSK	23155	1RB#12	21.06	PASS
Band12	5MHz	QPSK	23155	1RB#24	21.16	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.78	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.84	PASS
Band12	5MHz	QPSK	23155	12RB#13	20.95	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.31	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.69	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.02	PASS

Band12	5MHz	16QAM	23035	1RB#24	20.44	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.45	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.46	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.88	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.15	PASS
Band12	5MHz	16QAM	23095	1RB#0	20.37	PASS
Band12	5MHz	16QAM	23095	1RB#12	20.19	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.01	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.57	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.56	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.95	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.72	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.50	PASS
Band12	5MHz	16QAM	23155	1RB#12	20.80	PASS
Band12	5MHz	16QAM	23155	1RB#24	20.00	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.99	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.94	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.94	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.46	PASS
Band12	10MHz	QPSK	23060	1RB#0	21.45	PASS
Band12	10MHz	QPSK	23060	1RB#24	21.22	PASS
Band12	10MHz	QPSK	23060	1RB#49	21.03	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.24	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.27	PASS
Band12	10MHz	QPSK	23060	25RB#25	20.85	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.28	PASS
Band12	10MHz	QPSK	23095	1RB#0	21.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	21.19	PASS
Band12	10MHz	QPSK	23095	1RB#49	21.17	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.00	PASS
Band12	10MHz	QPSK	23095	25RB#12	20.94	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.75	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.56	PASS
Band12	10MHz	QPSK	23130	1RB#0	21.76	PASS
Band12	10MHz	QPSK	23130	1RB#24	21.45	PASS

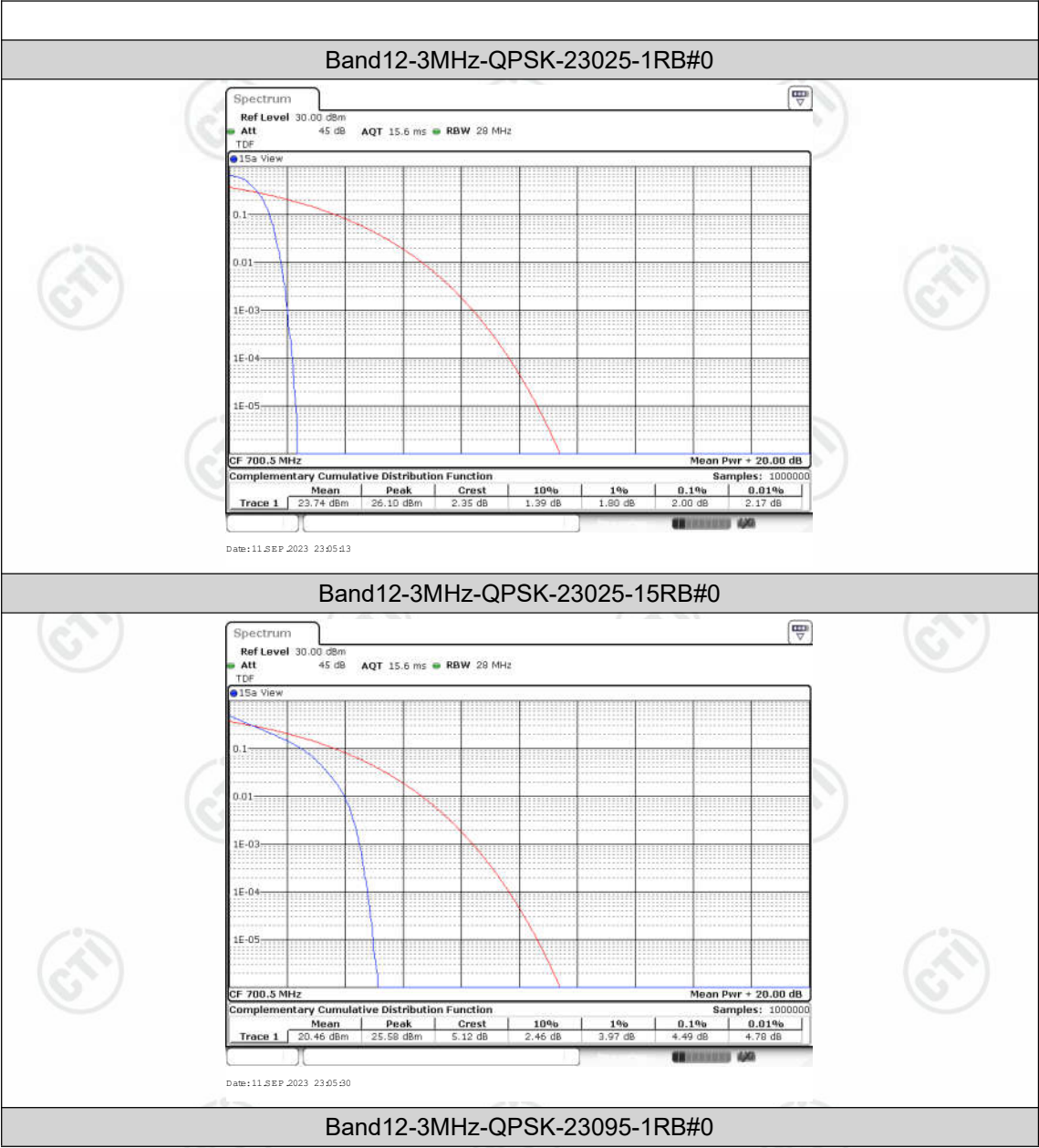
Band12	10MHz	QPSK	23130	1RB#49	21.91	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.46	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.47	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.83	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.97	PASS
Band12	10MHz	16QAM	23060	1RB#24	20.18	PASS
Band12	10MHz	16QAM	23060	1RB#49	20.90	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.08	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.10	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.61	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.31	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.45	PASS
Band12	10MHz	16QAM	23095	1RB#24	20.99	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.14	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.73	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.70	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.56	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.35	PASS
Band12	10MHz	16QAM	23130	1RB#0	20.58	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.27	PASS
Band12	10MHz	16QAM	23130	1RB#49	20.82	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.29	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.28	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.59	PASS

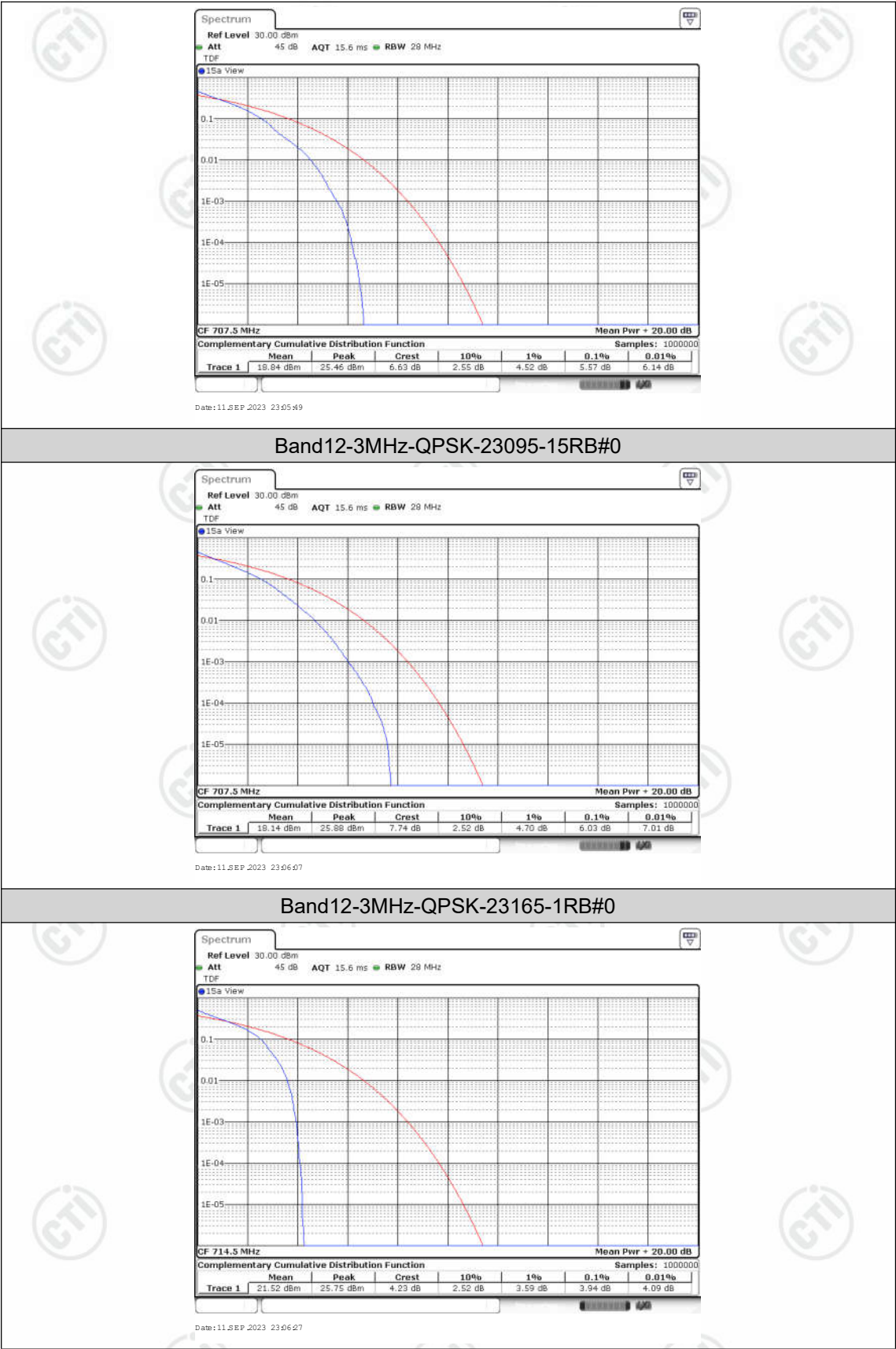
Appendix B: Peak-to-Average Ratio(CCDF)**Test Result**

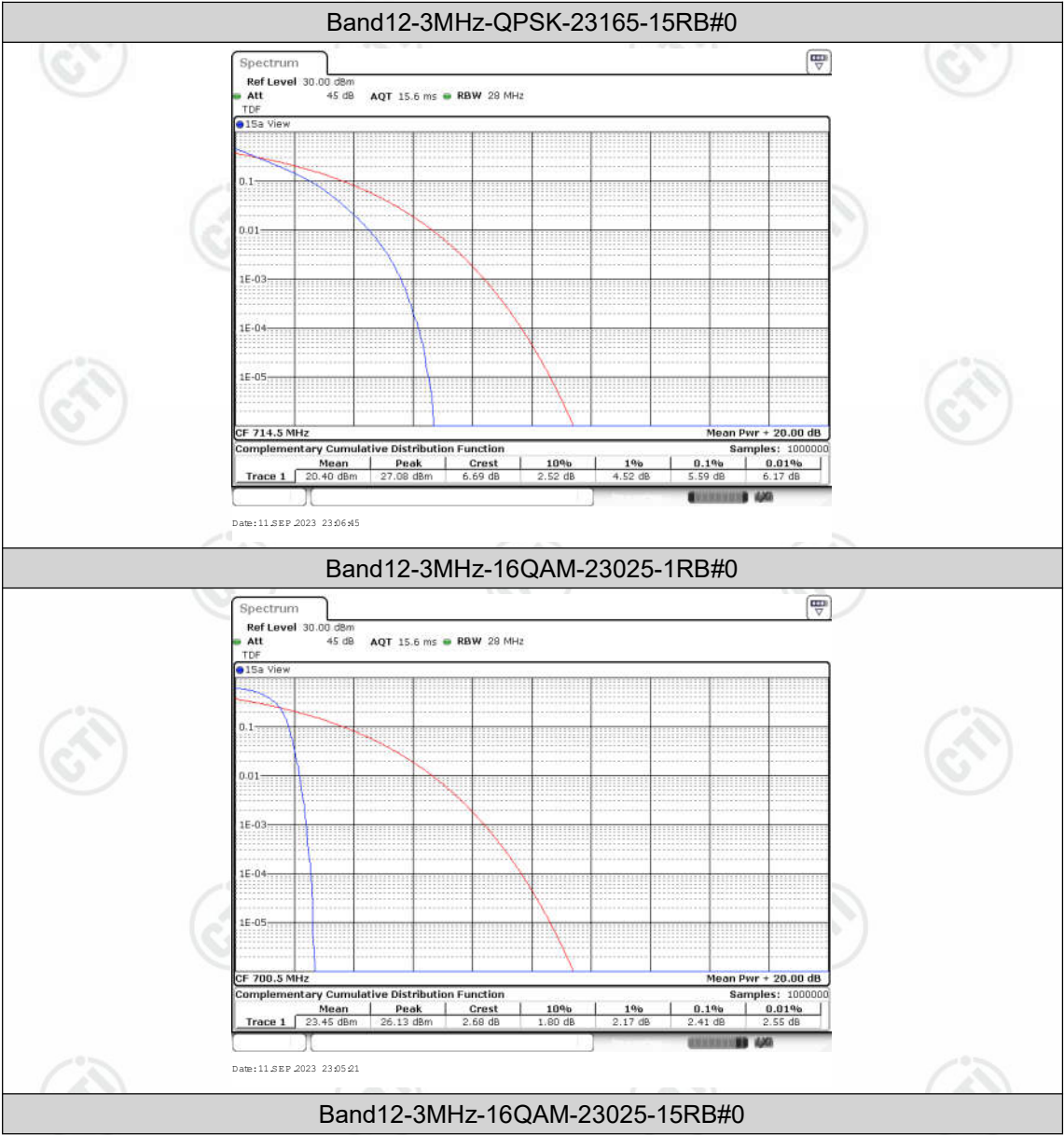
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	3MHz	QPSK	23025	1RB#0	2.00	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	4.49	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	5.57	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	6.03	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.94	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.59	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	2.41	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.33	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	6.41	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.70	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.96	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	6.38	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	2.12	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.99	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	5.88	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	6.06	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	3.83	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.28	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	2.46	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.74	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	6.78	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.70	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.87	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	2.09	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.77	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.70	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.80	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	6.00	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	2.43	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.52	13	PASS

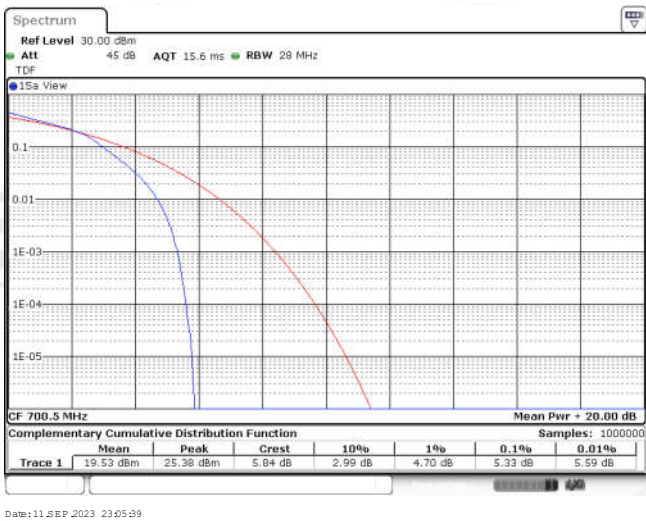
Band12	10MHz	16QAM	23095	1RB#0	5.33	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.61	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.81	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.29	13	PASS

Test Graphs

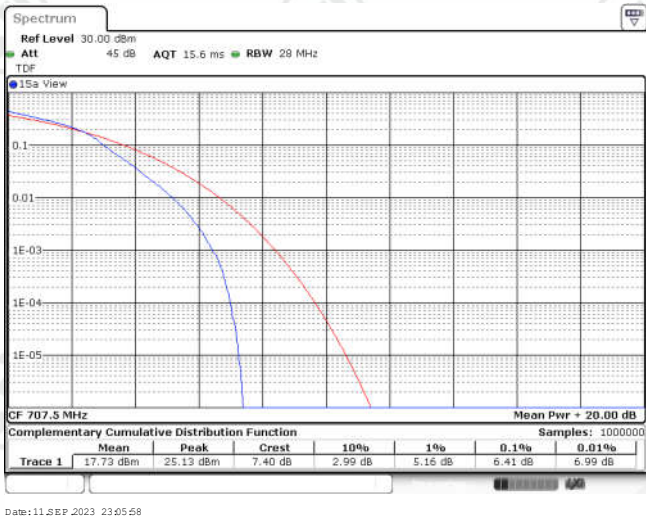




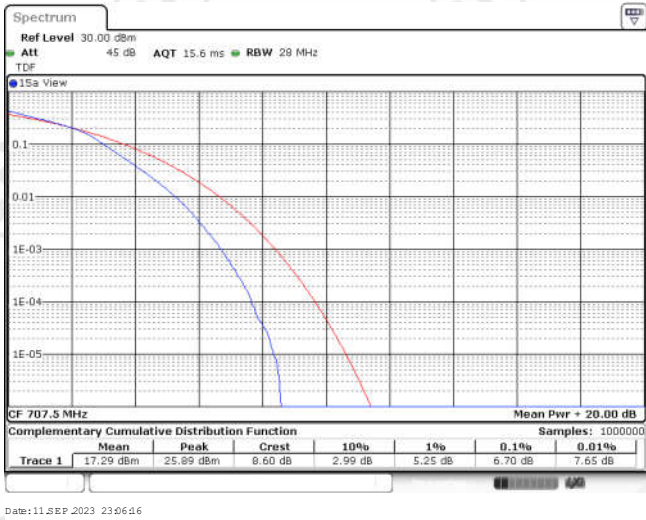


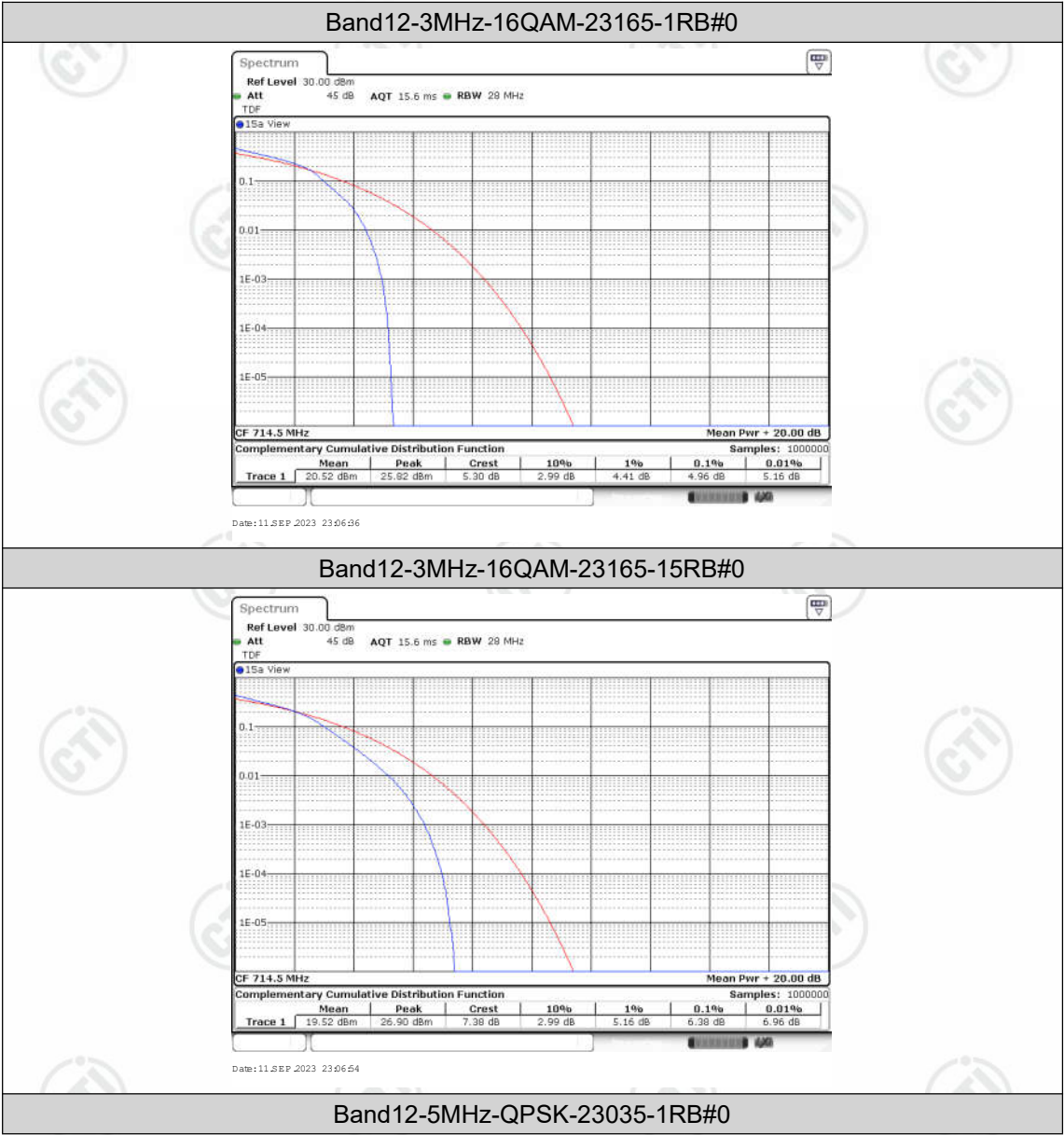


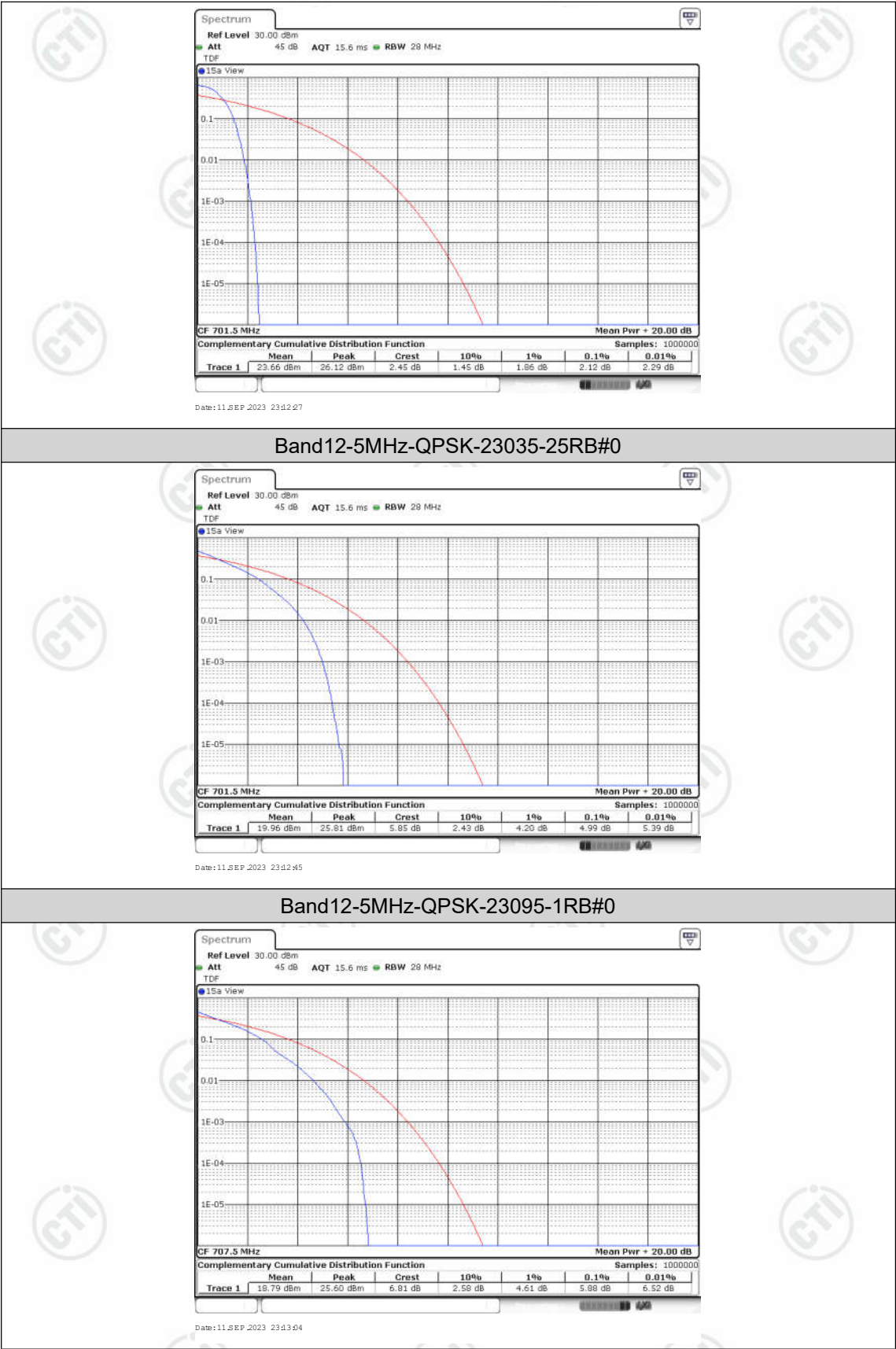
Band12-3MHz-16QAM-23095-1RB#0

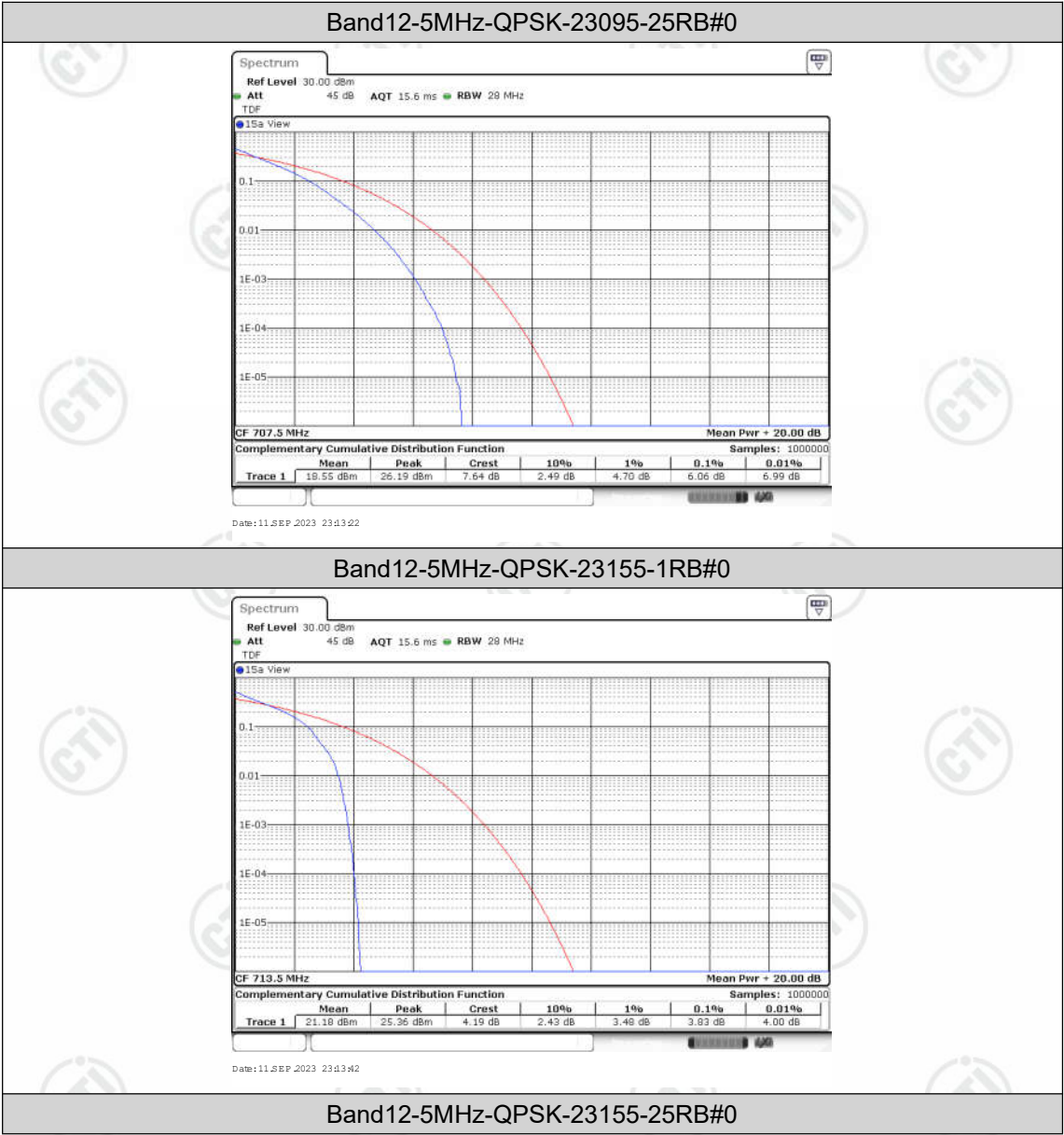


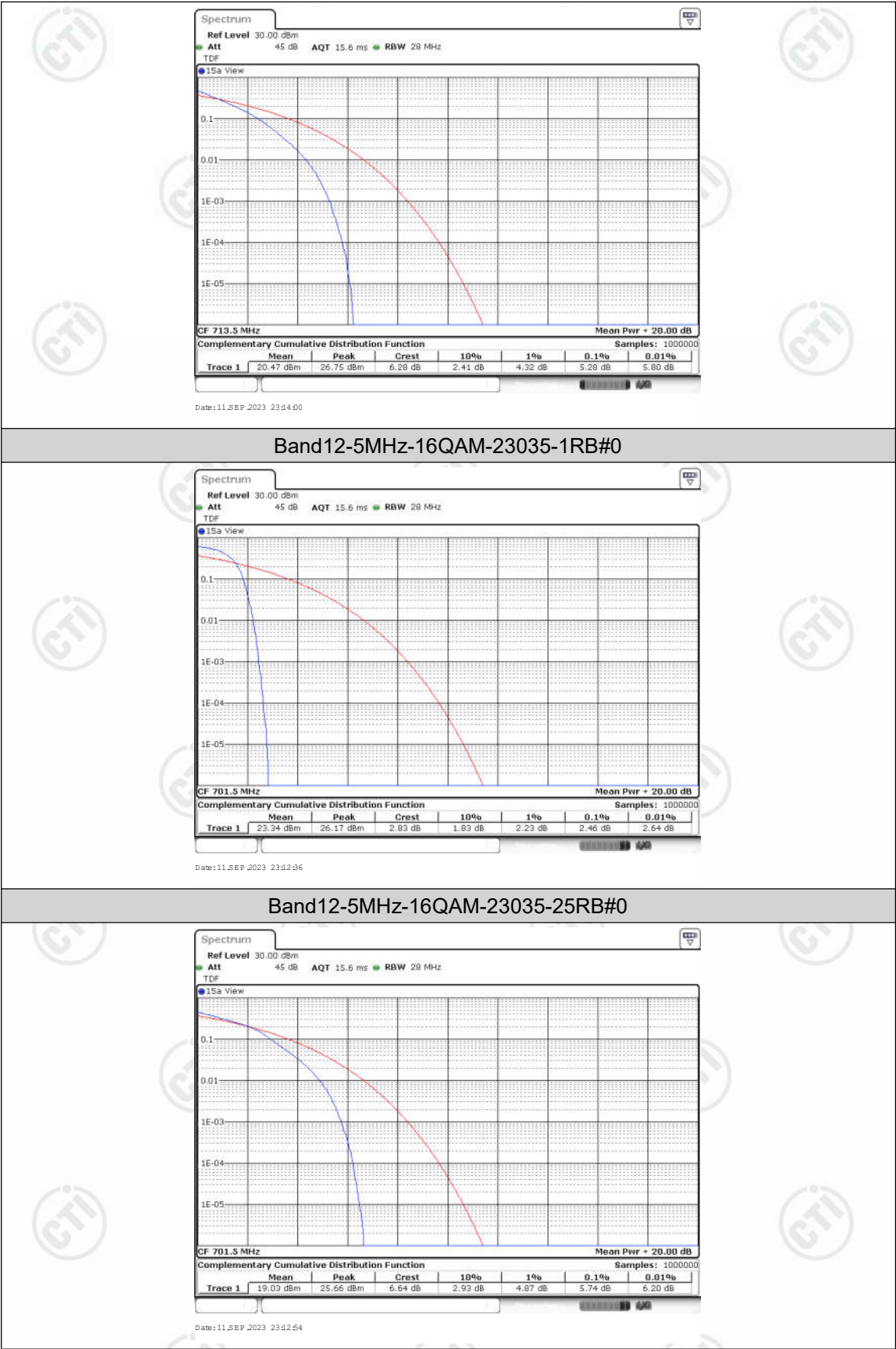
Band12-3MHz-16QAM-23095-15RB#0

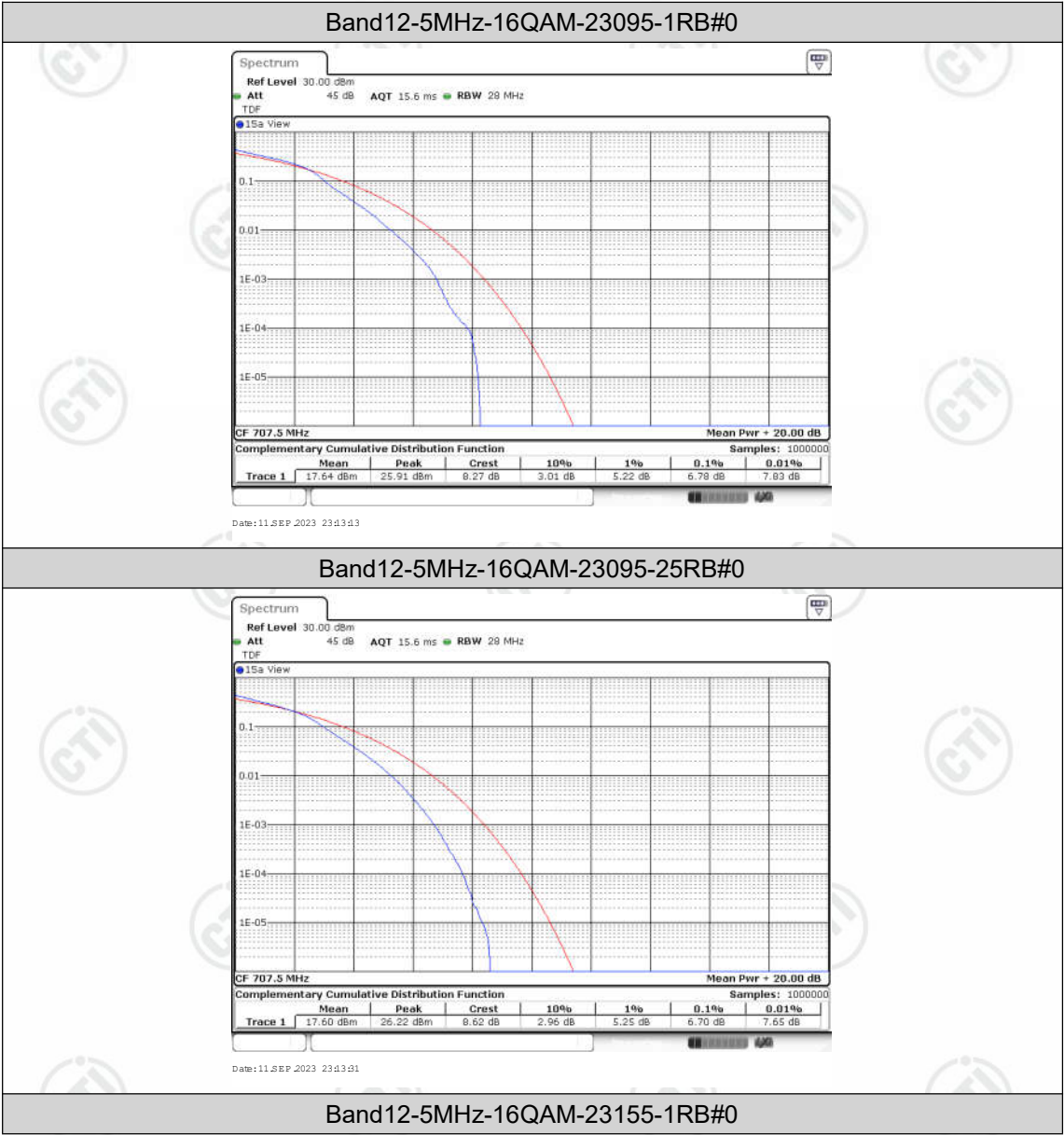


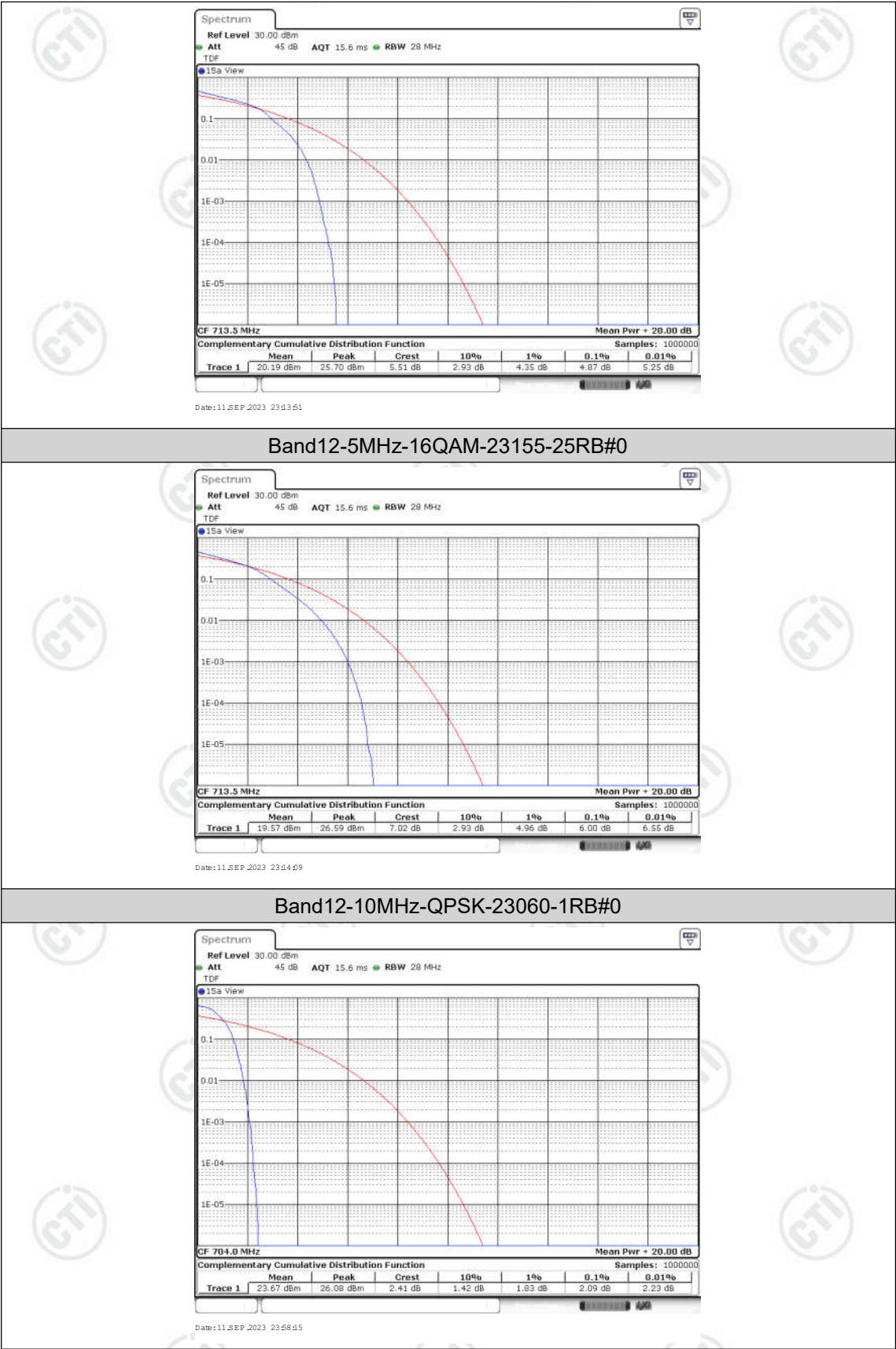


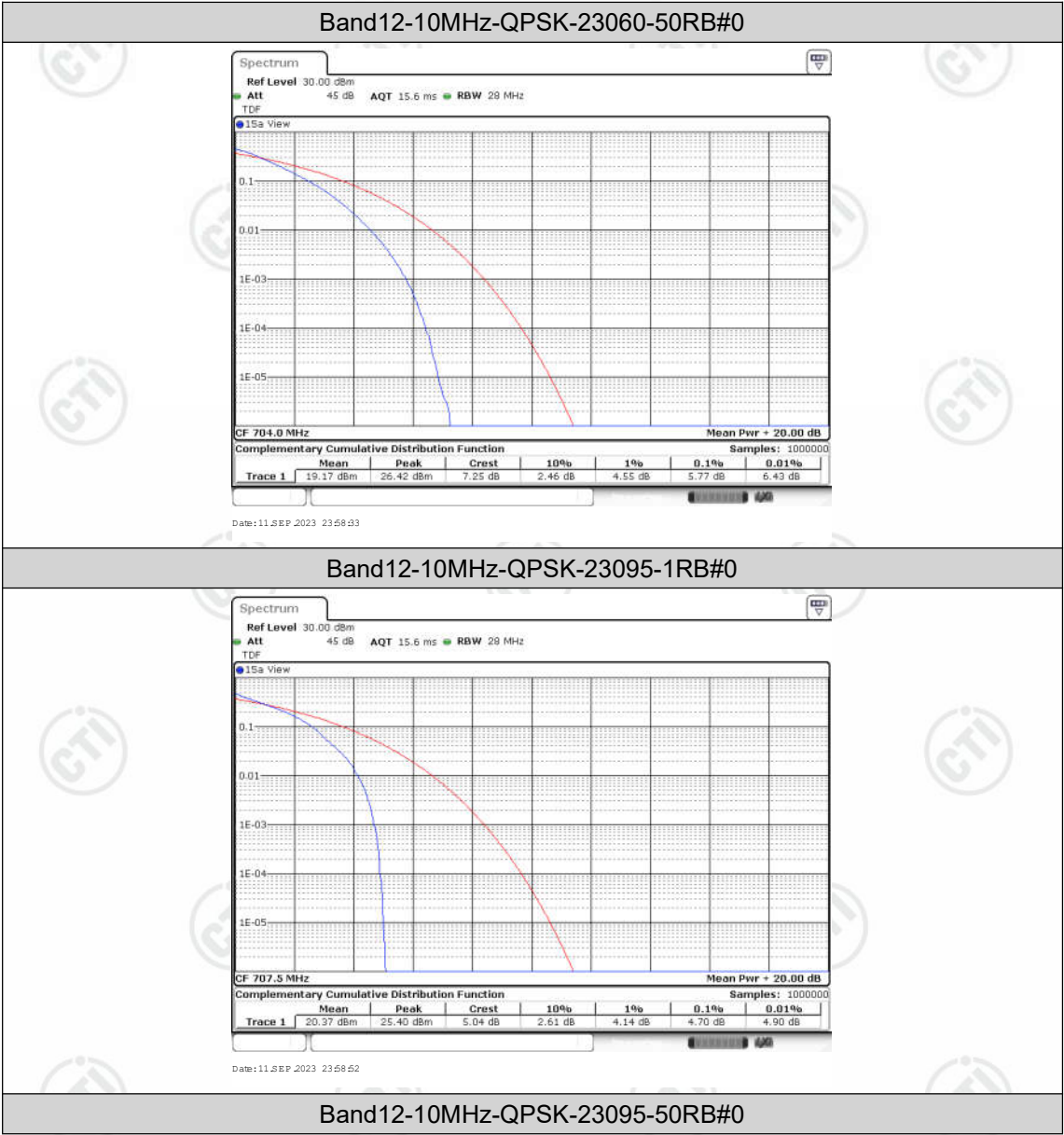


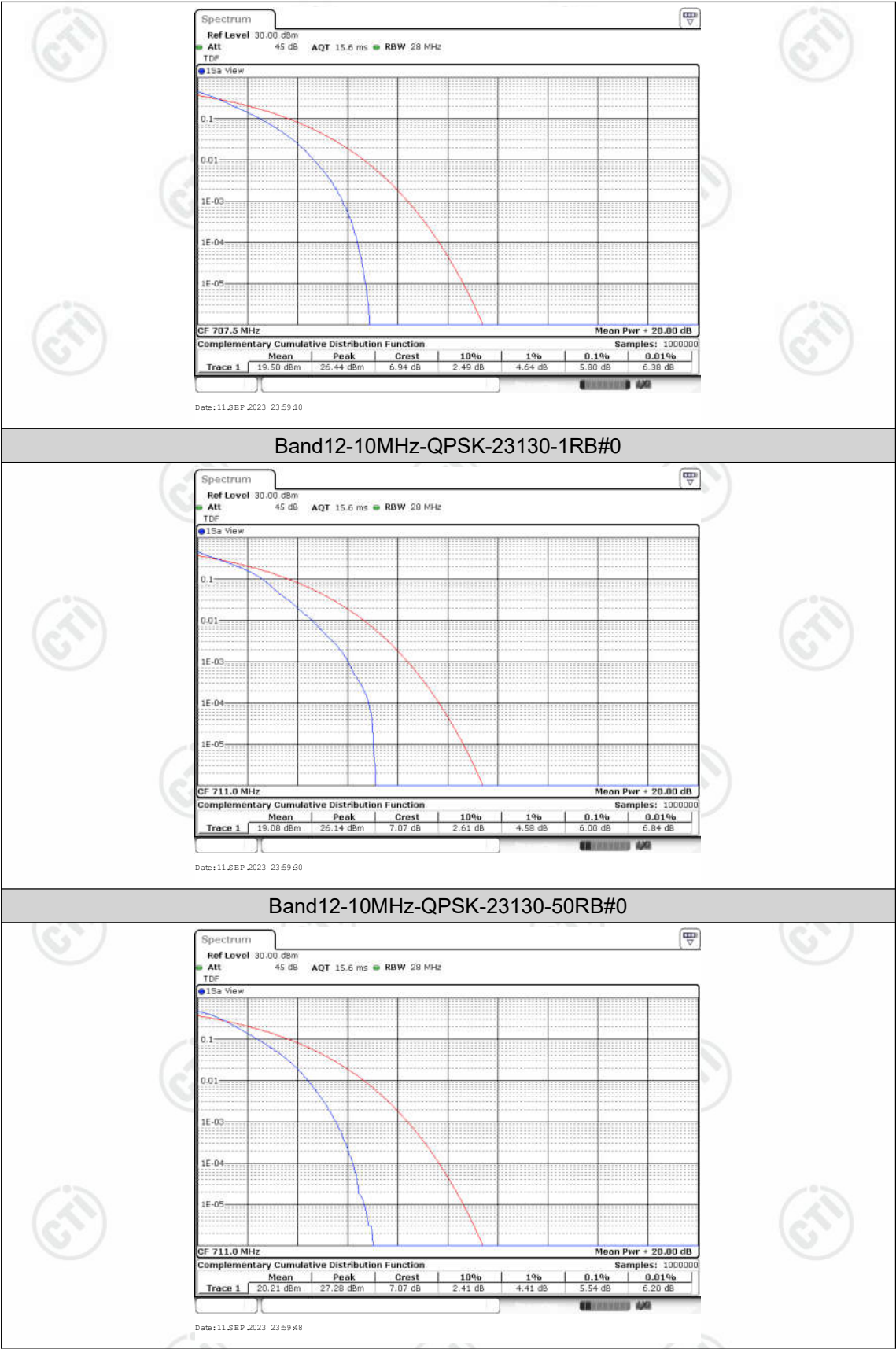


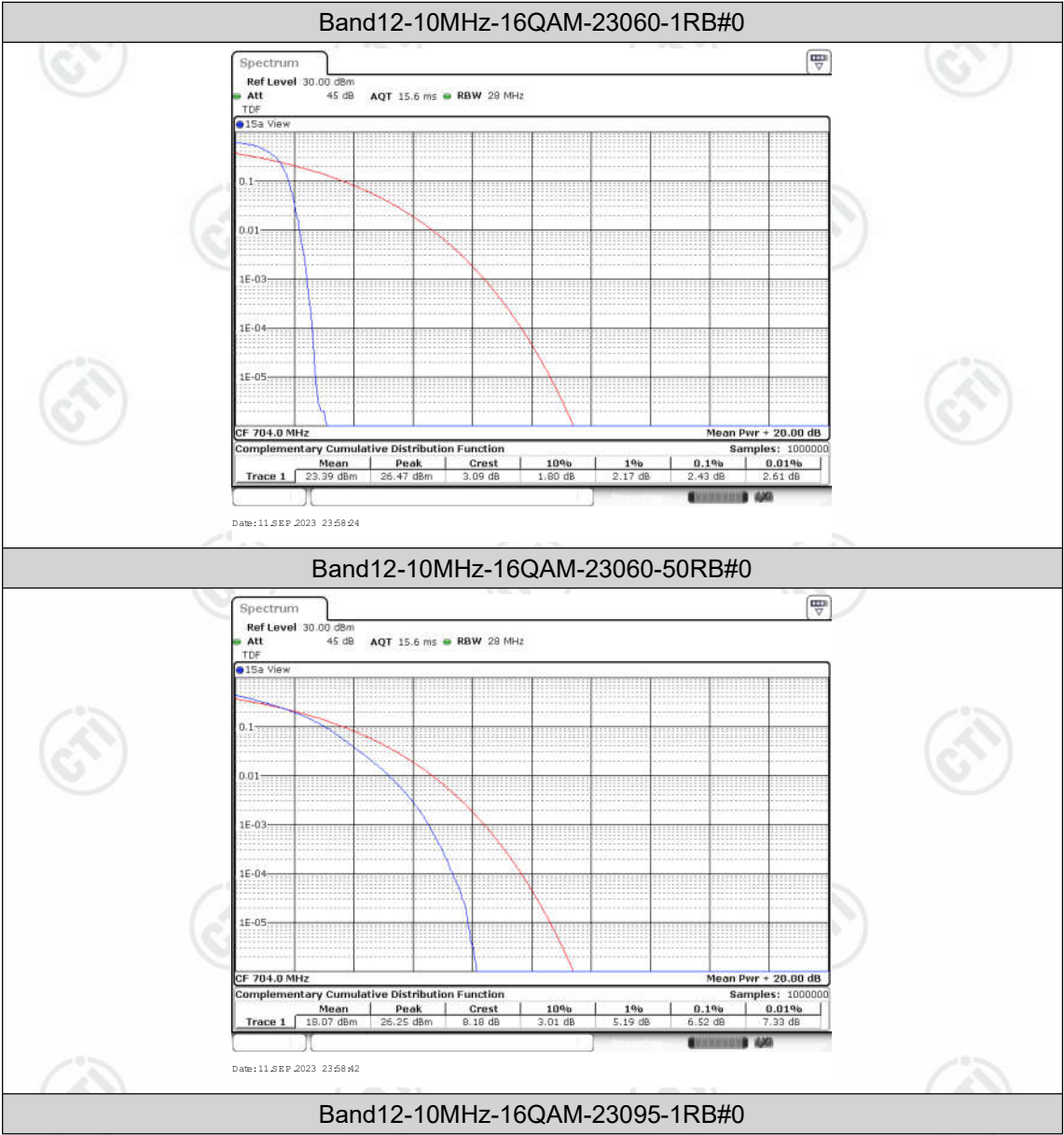


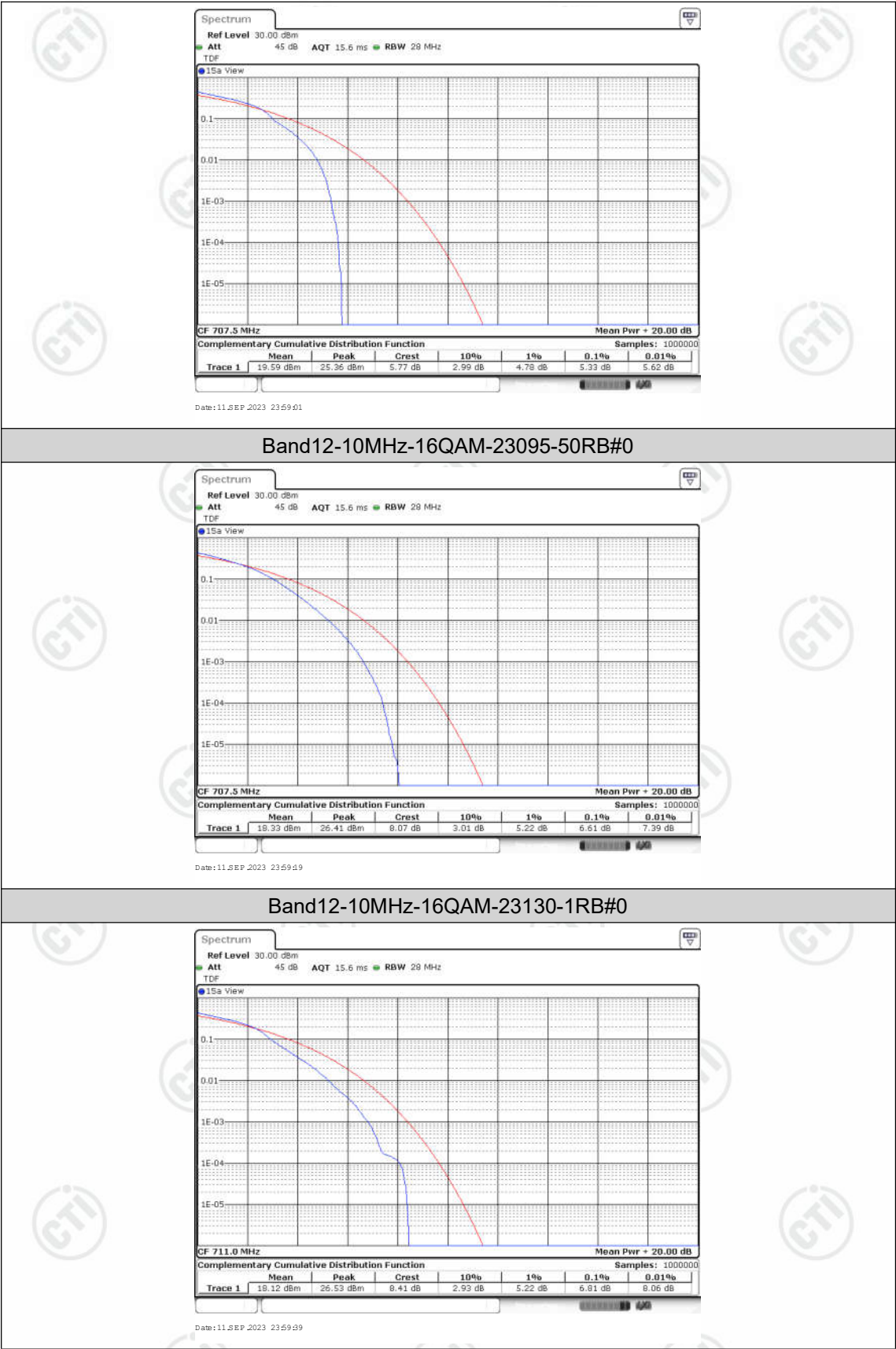


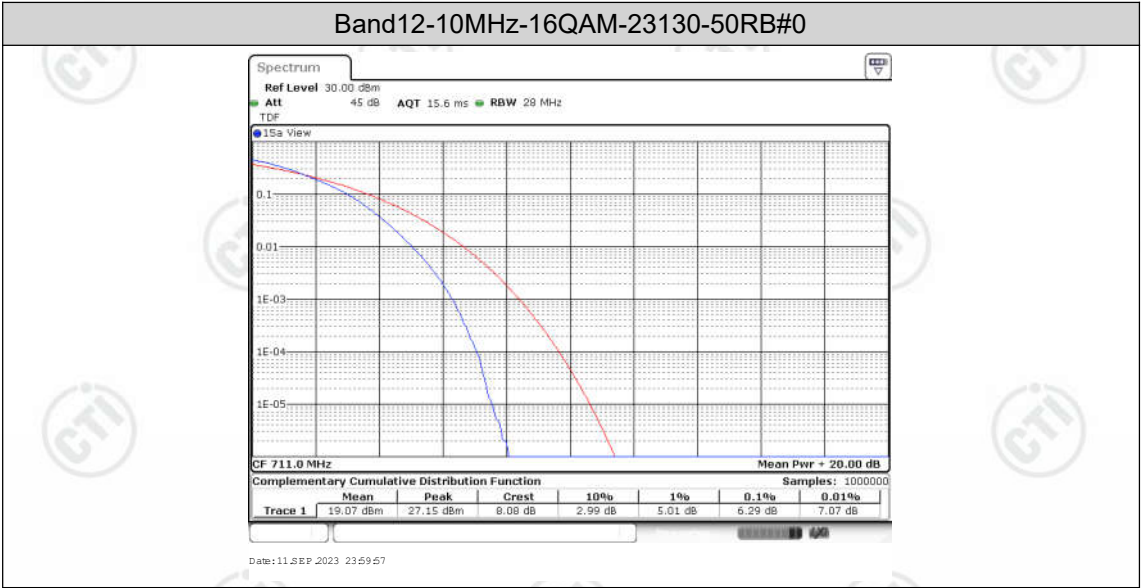










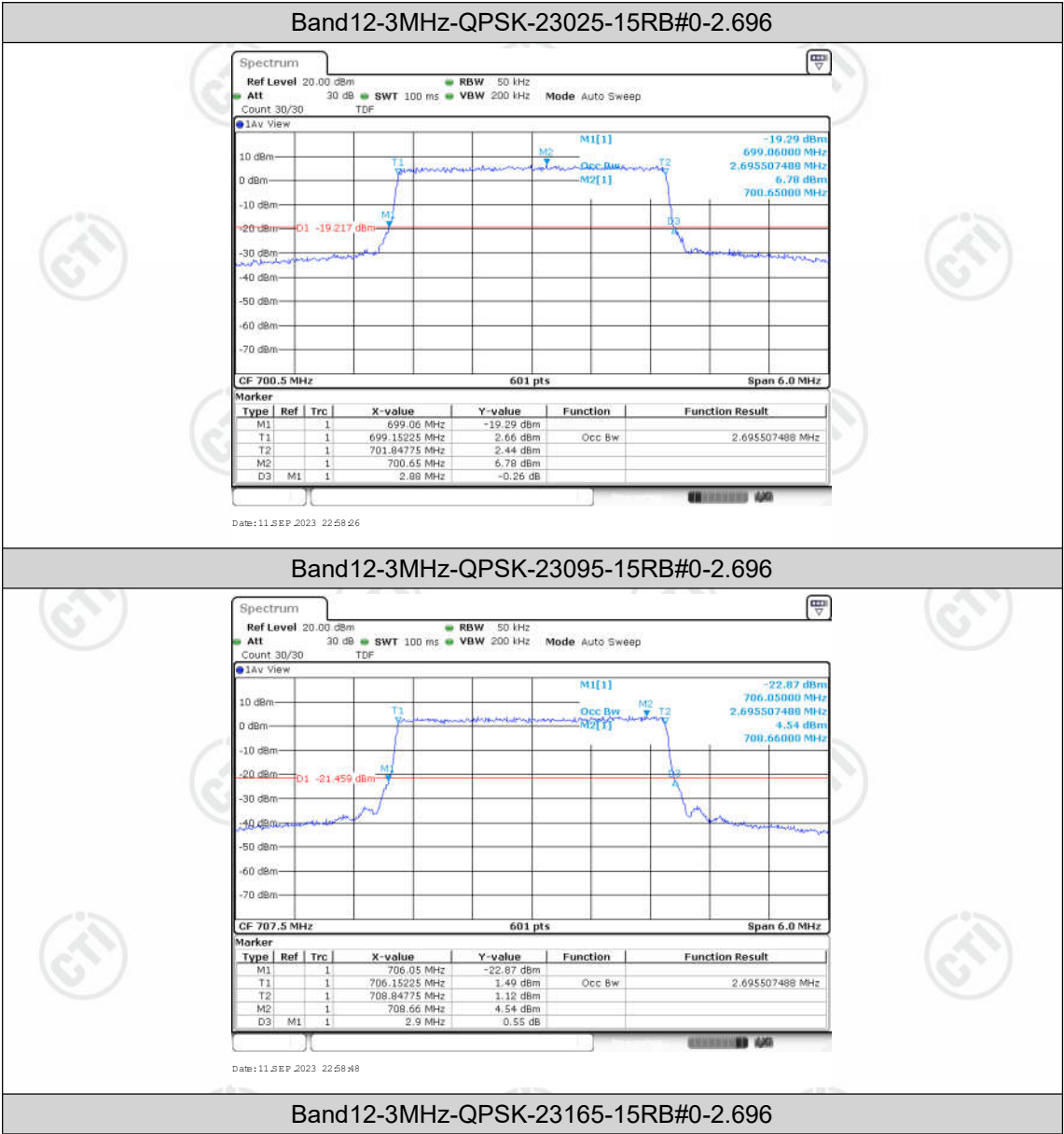


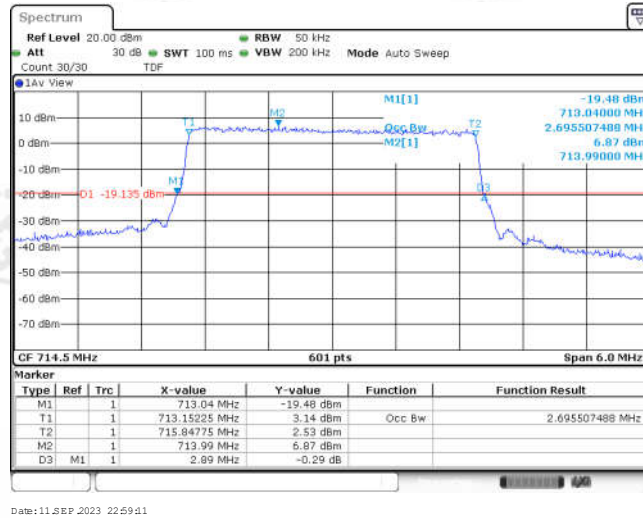
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

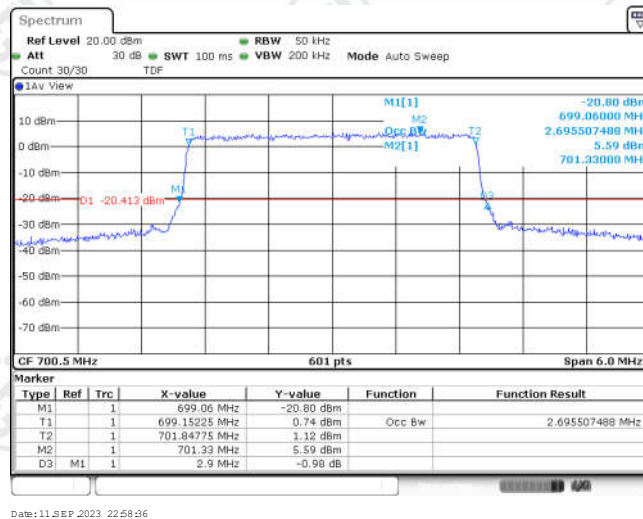
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.880	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.900	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.890	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	2.900	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	2.910	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	2.900	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.496	4.810	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.505	4.780	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.505	4.790	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.486	4.780	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.505	4.800	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.496	4.800	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.952	9.533	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.018	9.567	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.952	9.533	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.985	9.567	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.018	9.567	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.952	9.533	PASS

Test Graphs

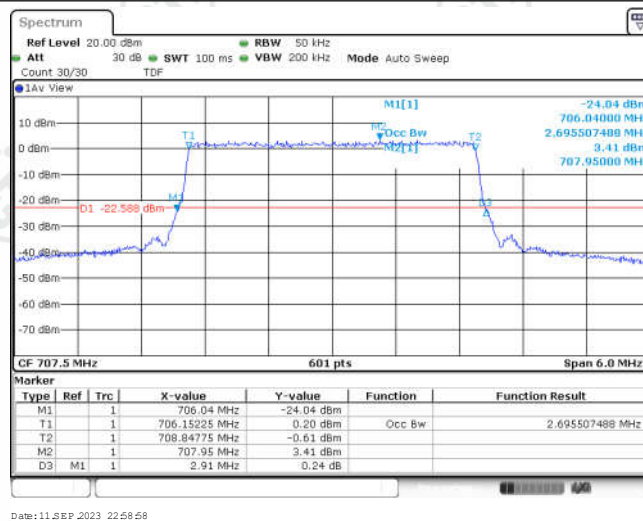


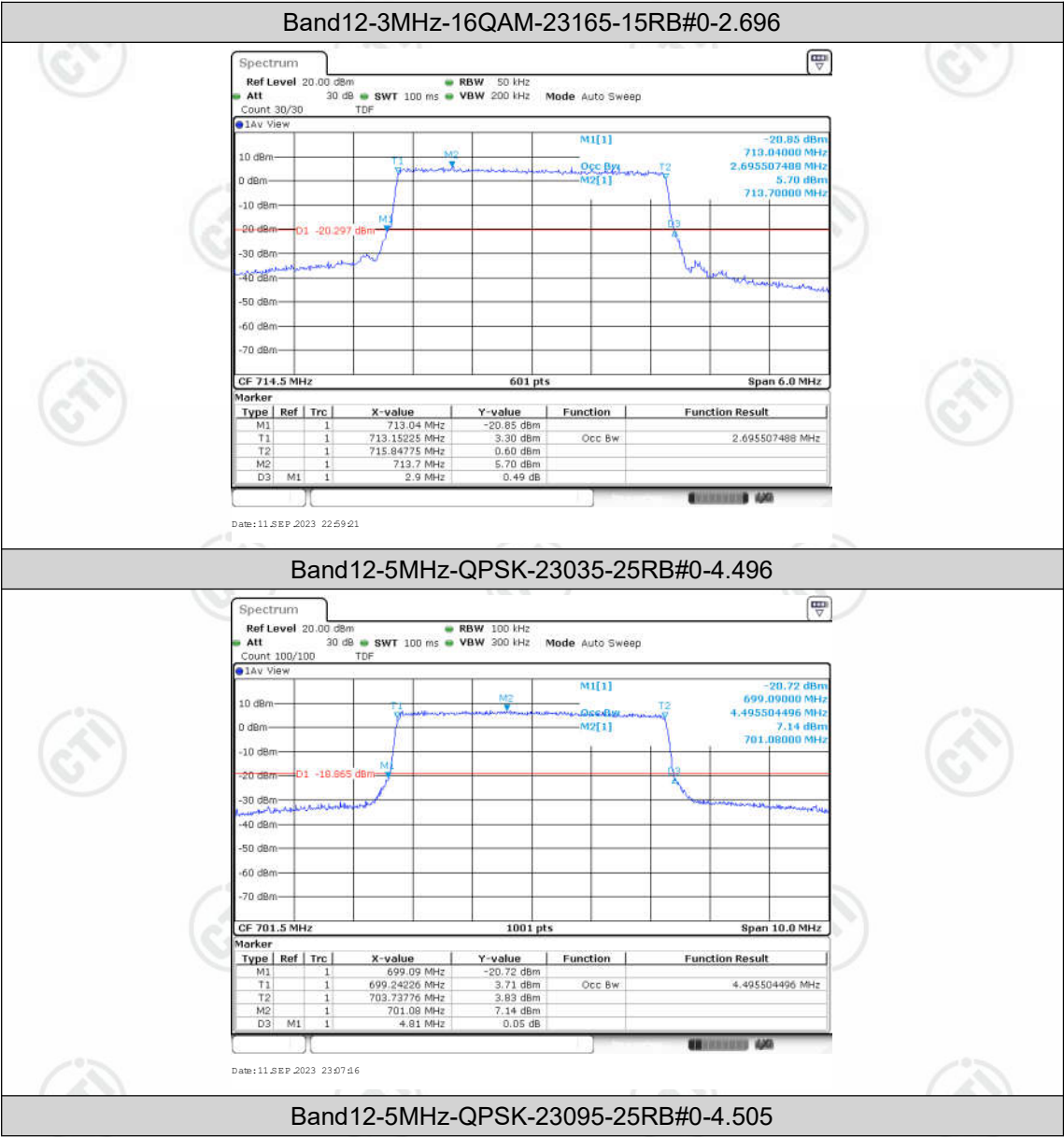


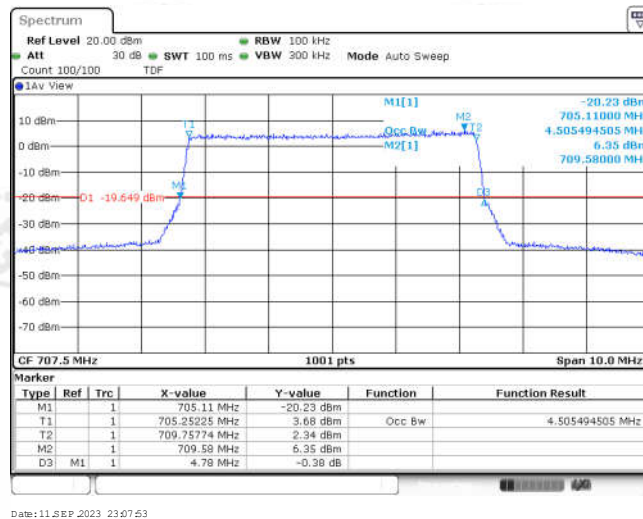
Band12-3MHz-16QAM-23025-15RB#0-2.696



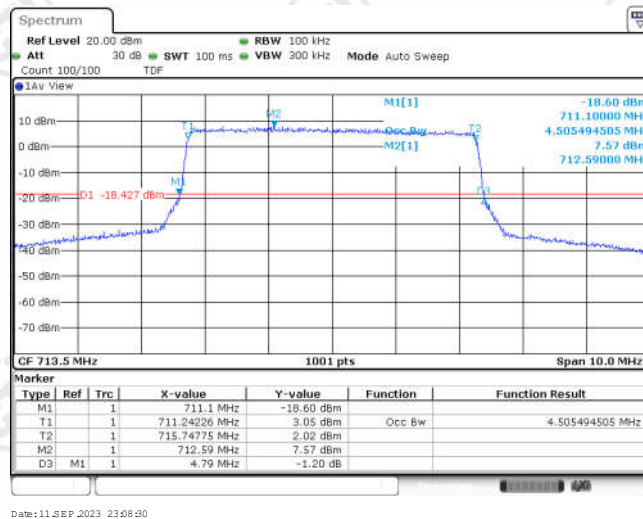
Band12-3MHz-16QAM-23095-15RB#0-2.696



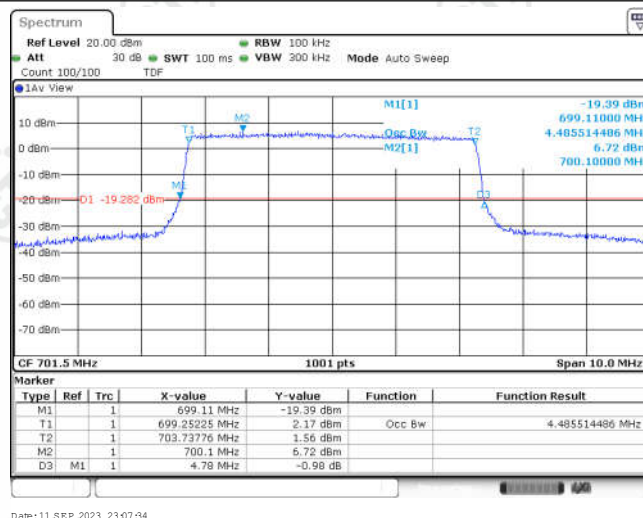


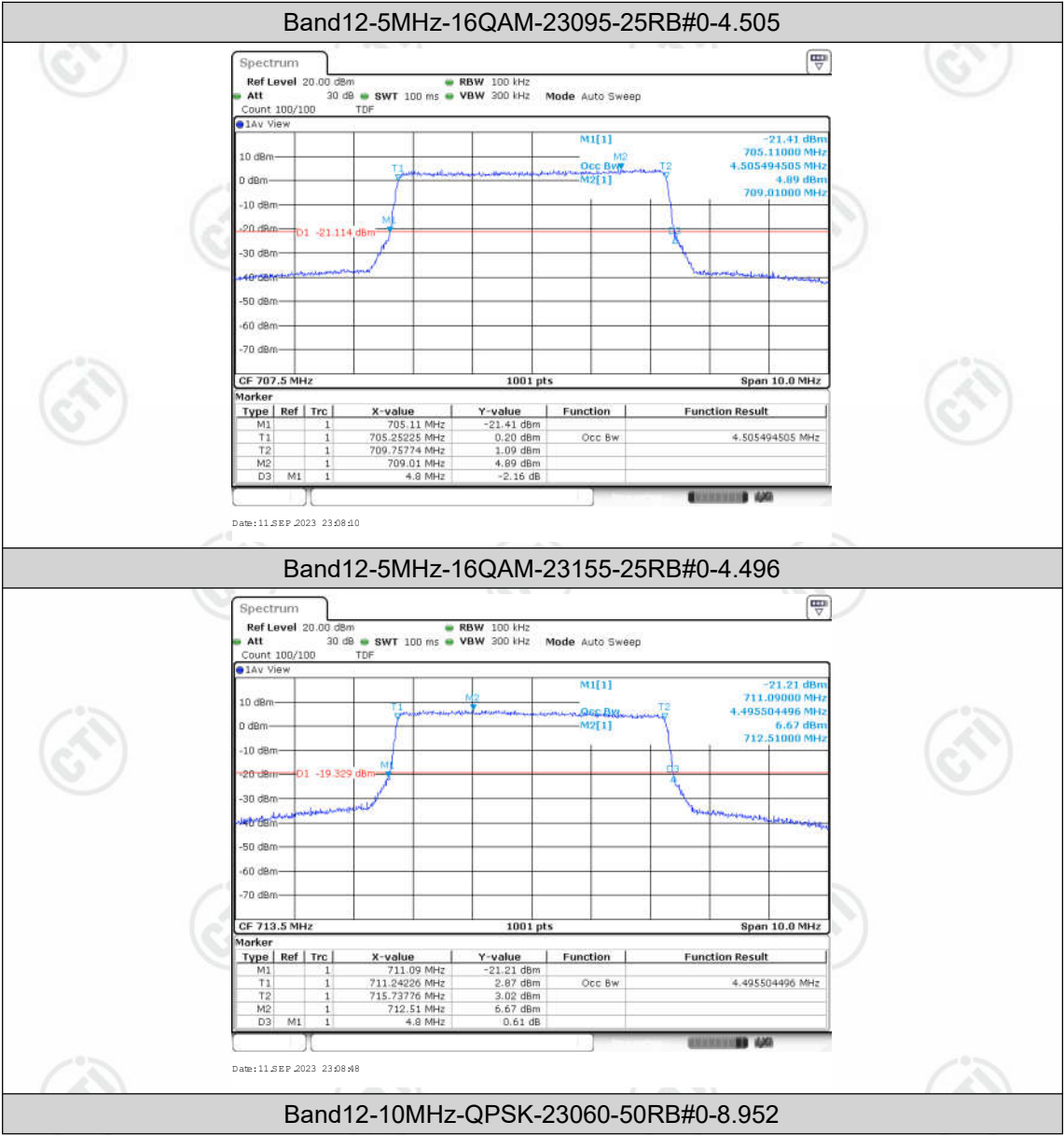


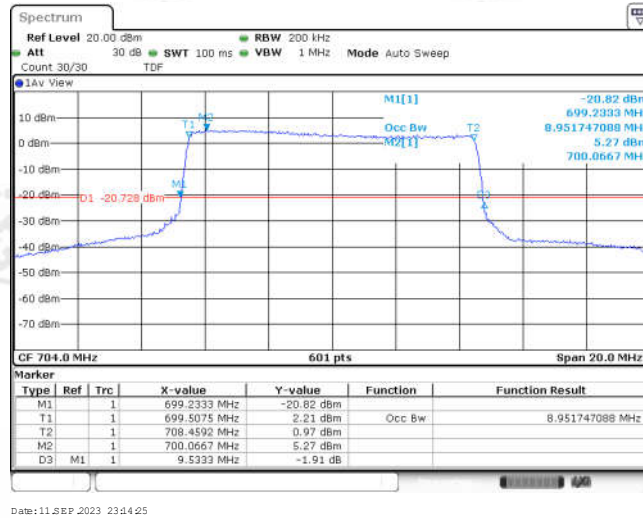
Band12-5MHz-QPSK-23155-25RB#0-4.505



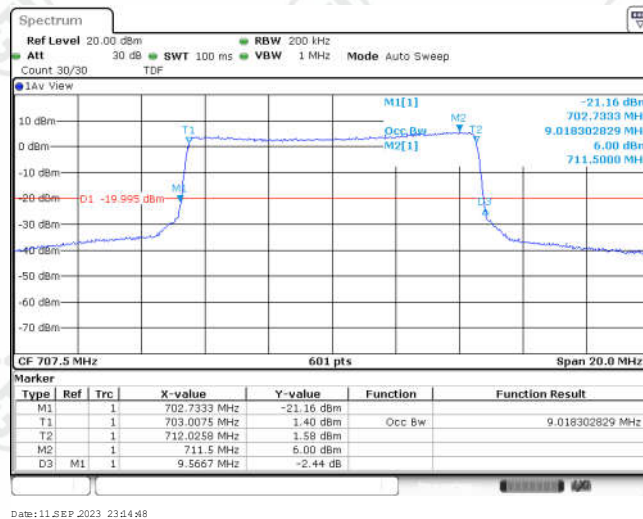
Band12-5MHz-16QAM-23035-25RB#0-4.486



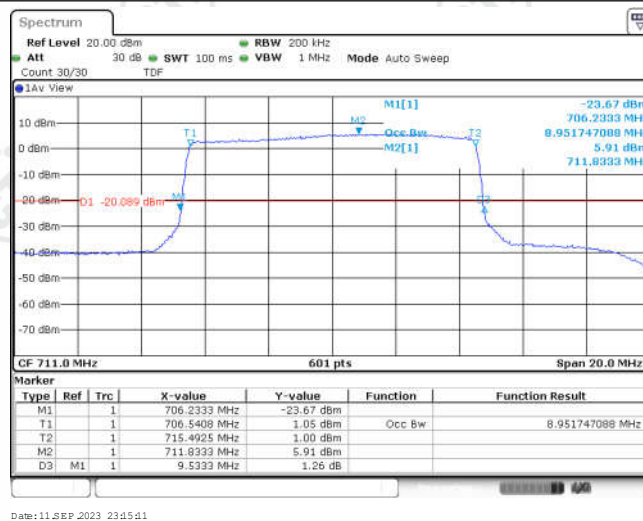


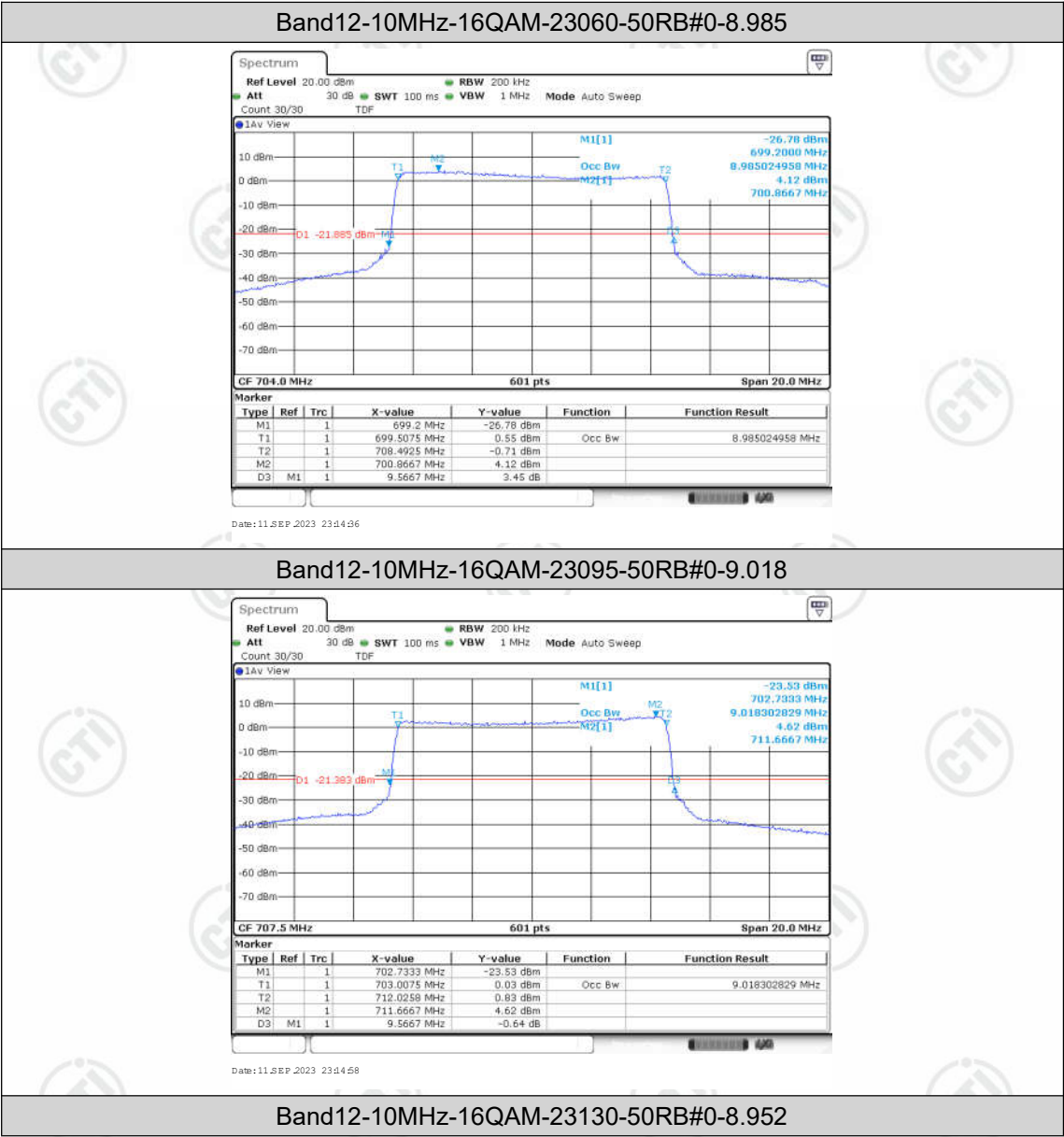


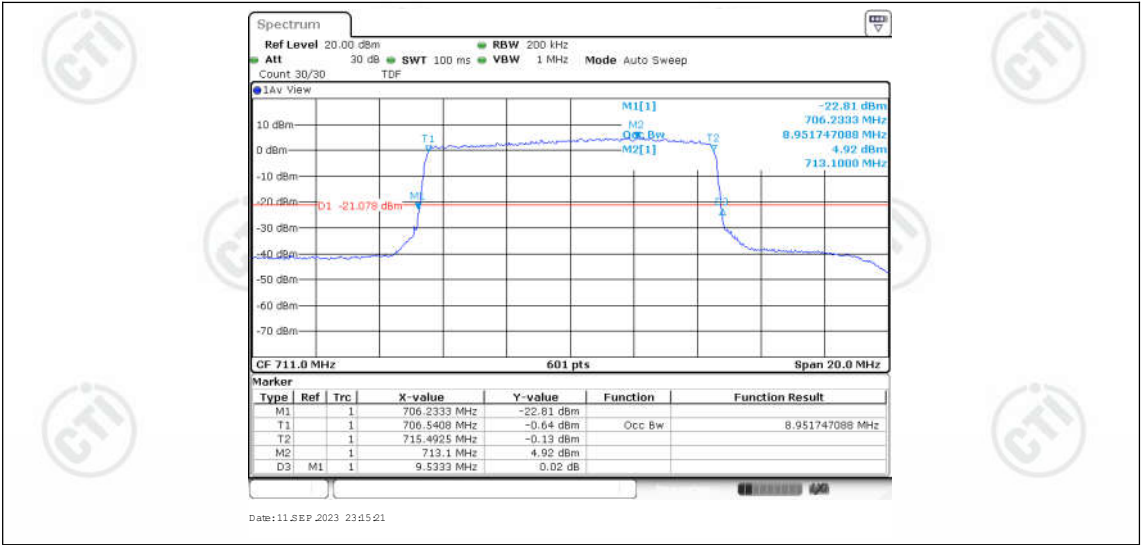
Band12-10MHz-QPSK-23095-50RB#0-9.018



Band12-10MHz-QPSK-23130-50RB#0-8.952







Appendix D: Band Edge

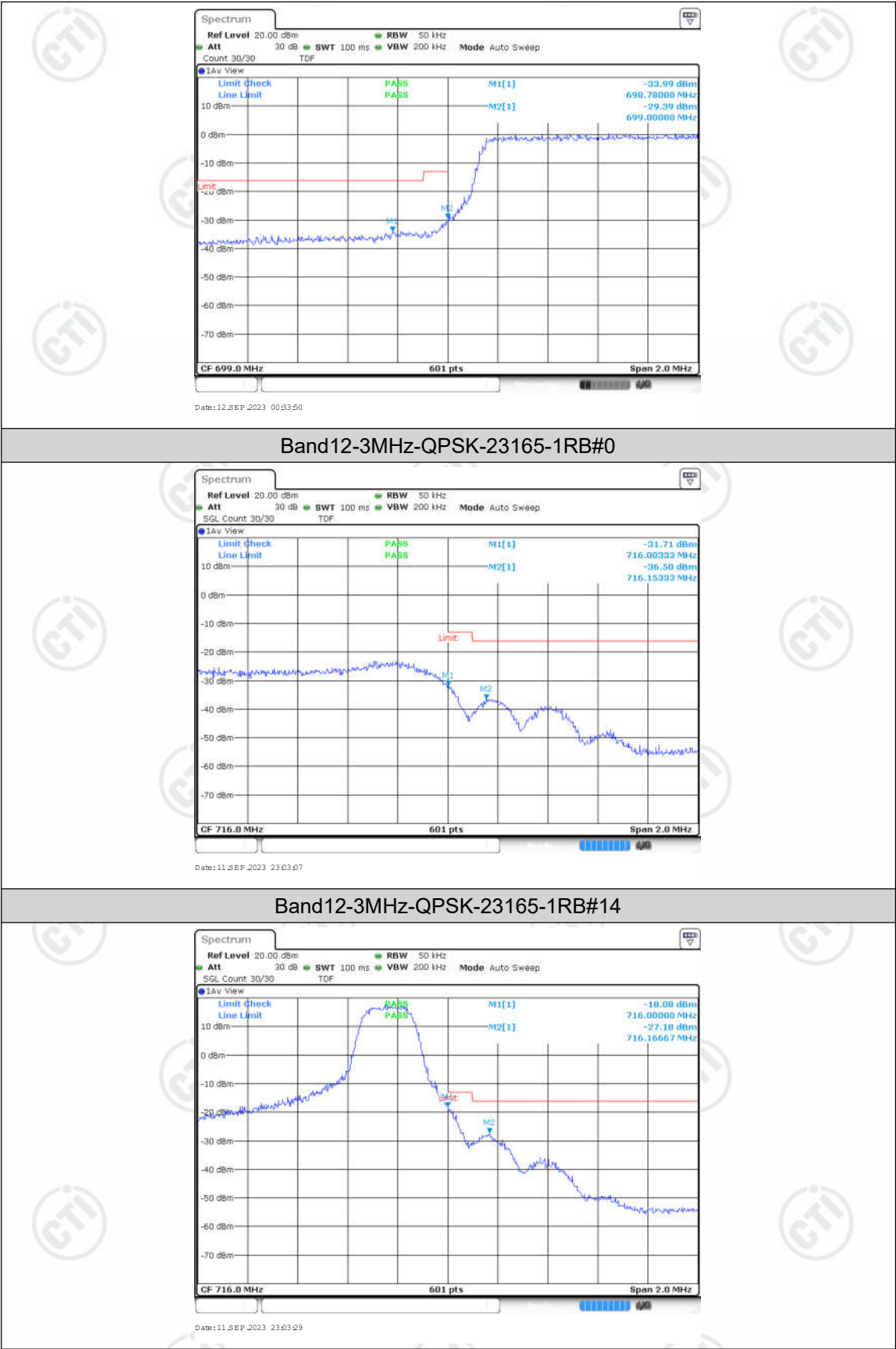
Test Result

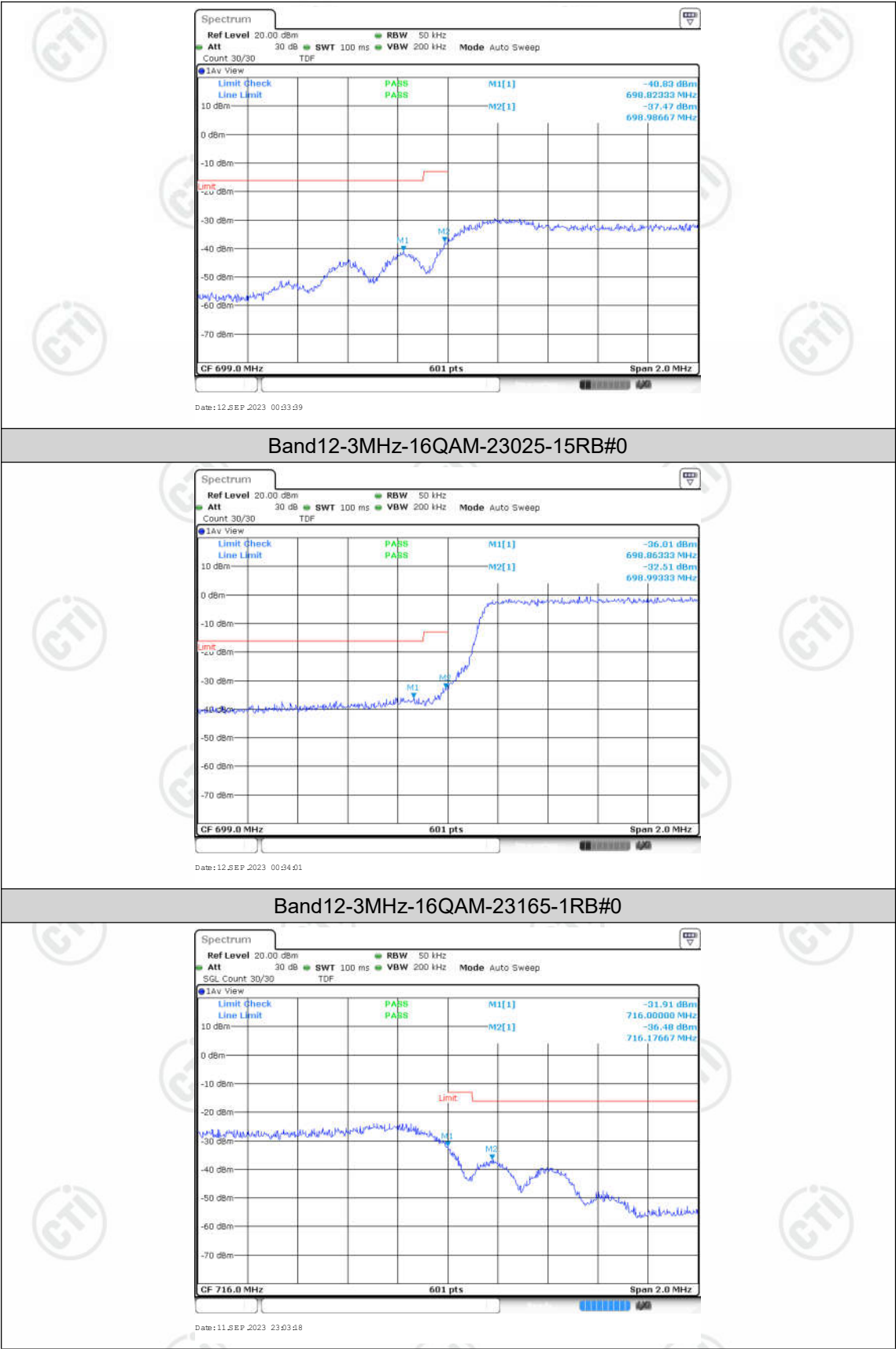
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	3MHz	QPSK	23025	1RB#0	-25.29,-13.73	PASS
Band12	3MHz	QPSK	23025	1RB#14	-40.51,-36.89	PASS
Band12	3MHz	QPSK	23025	15RB#0	-33.99,-29.39	PASS
Band12	3MHz	QPSK	23165	1RB#0	-31.71,-36.50	PASS
Band12	3MHz	QPSK	23165	1RB#14	-18.08,-27.18	PASS
Band12	3MHz	QPSK	23165	15RB#0	-26.58,-32.90	PASS
Band12	3MHz	16QAM	23025	1RB#0	-24.55,-13.06	PASS
Band12	3MHz	16QAM	23025	1RB#14	-40.83,-37.47	PASS
Band12	3MHz	16QAM	23025	15RB#0	-36.01,-32.51	PASS
Band12	3MHz	16QAM	23165	1RB#0	-31.91,-36.48	PASS
Band12	3MHz	16QAM	23165	1RB#14	-18.85,-27.22	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.58,-33.91	PASS
Band12	5MHz	QPSK	23035	1RB#0	-18.49	PASS
Band12	5MHz	QPSK	23035	1RB#24	-40.85	PASS
Band12	5MHz	QPSK	23035	25RB#0	-31.33	PASS
Band12	5MHz	QPSK	23155	1RB#0	-40.85	PASS
Band12	5MHz	QPSK	23155	1RB#24	-23.89	PASS
Band12	5MHz	QPSK	23155	25RB#0	-32.19	PASS
Band12	5MHz	16QAM	23035	1RB#0	-17.62	PASS
Band12	5MHz	16QAM	23035	1RB#24	-42.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	-32.89	PASS
Band12	5MHz	16QAM	23155	1RB#0	-42.34	PASS
Band12	5MHz	16QAM	23155	1RB#24	-24.30	PASS
Band12	5MHz	16QAM	23155	25RB#0	-33.72	PASS
Band12	10MHz	QPSK	23060	1RB#0	-19.79,-16.69	PASS
Band12	10MHz	QPSK	23060	1RB#49	-36.79,-35.84	PASS
Band12	10MHz	QPSK	23060	50RB#0	-29.80,-29.23	PASS
Band12	10MHz	QPSK	23130	1RB#0	-35.67,-36.82	PASS
Band12	10MHz	QPSK	23130	1RB#49	-20.89,-23.89	PASS
Band12	10MHz	QPSK	23130	50RB#0	-29.46,-30.45	PASS
Band12	10MHz	16QAM	23060	1RB#0	-19.74,-16.70	PASS
Band12	10MHz	16QAM	23060	1RB#49	-36.86,-35.93	PASS
Band12	10MHz	16QAM	23060	50RB#0	-31.61,-29.41	PASS
Band12	10MHz	16QAM	23130	1RB#0	-36.63,-37.55	PASS

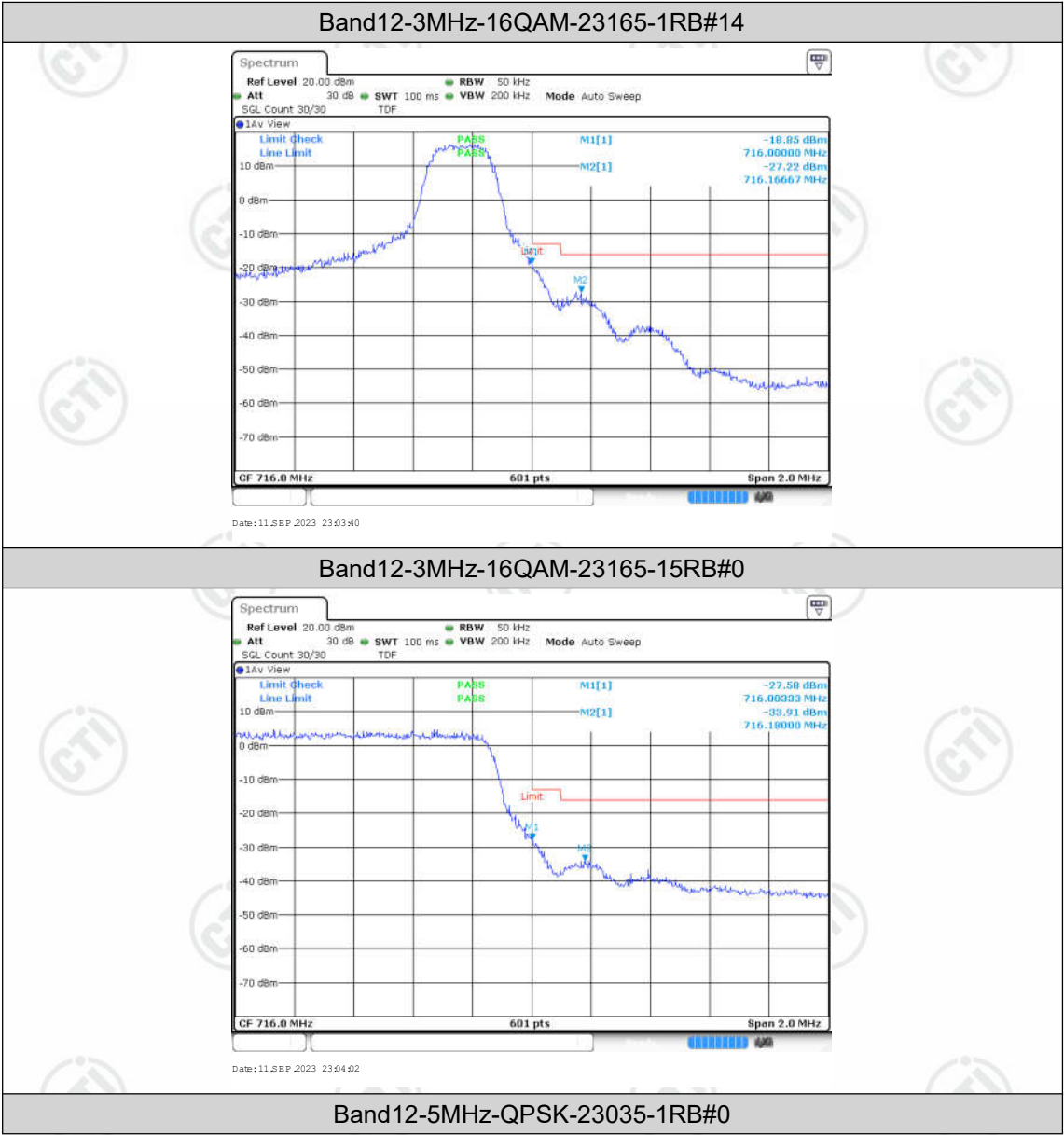
Band12	10MHz	16QAM	23130	1RB#49	-21.64,-23.60	PASS
Band12	10MHz	16QAM	23130	50RB#0	-30.60,-32.22	PASS

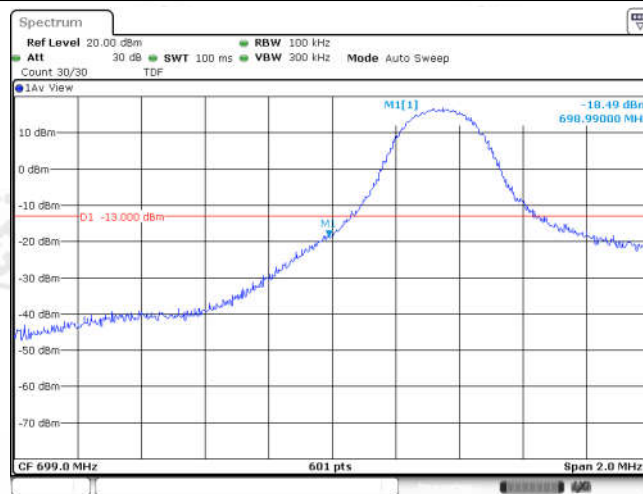
Test Graphs



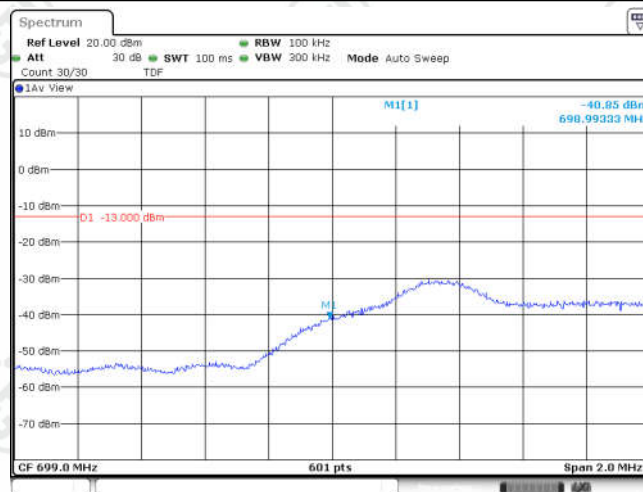




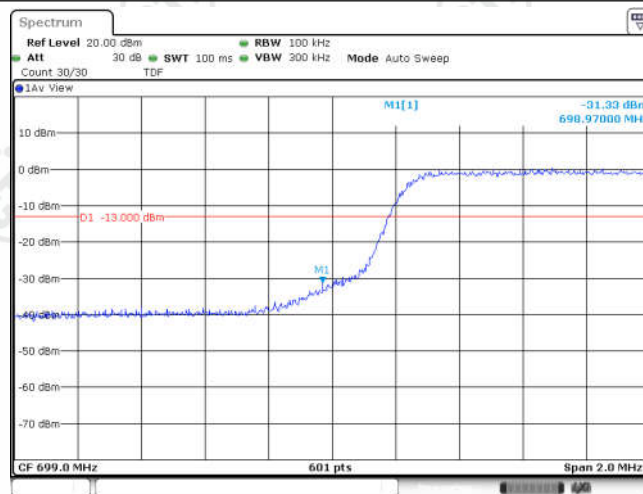


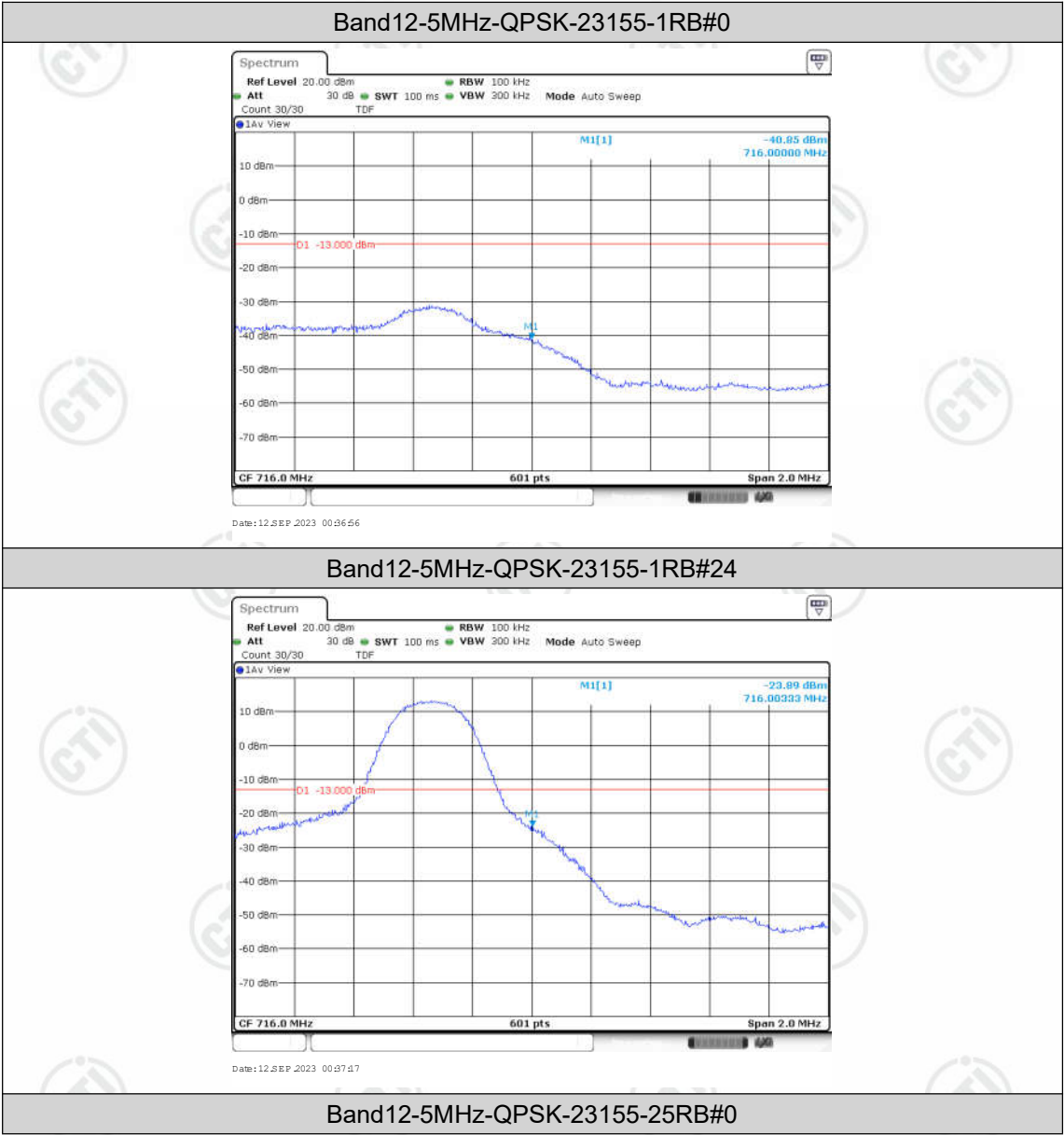


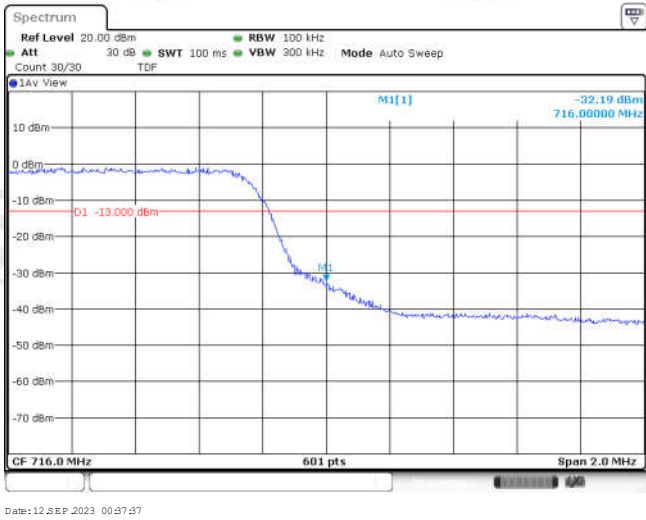
Band12-5MHz-QPSK-23035-1RB#24



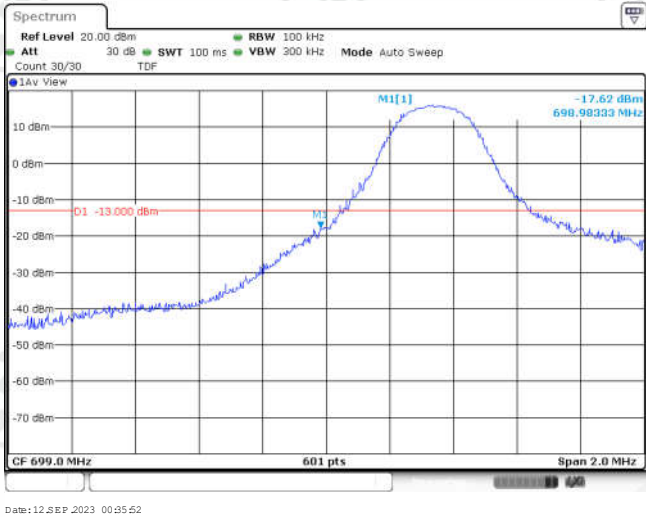
Band12-5MHz-QPSK-23035-25RB#0



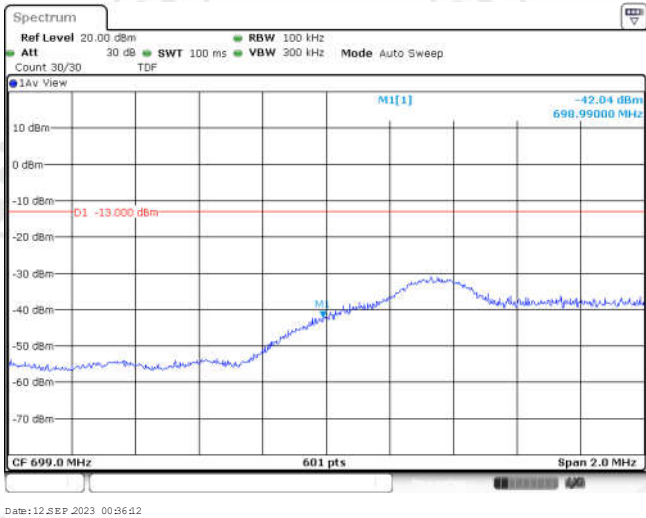


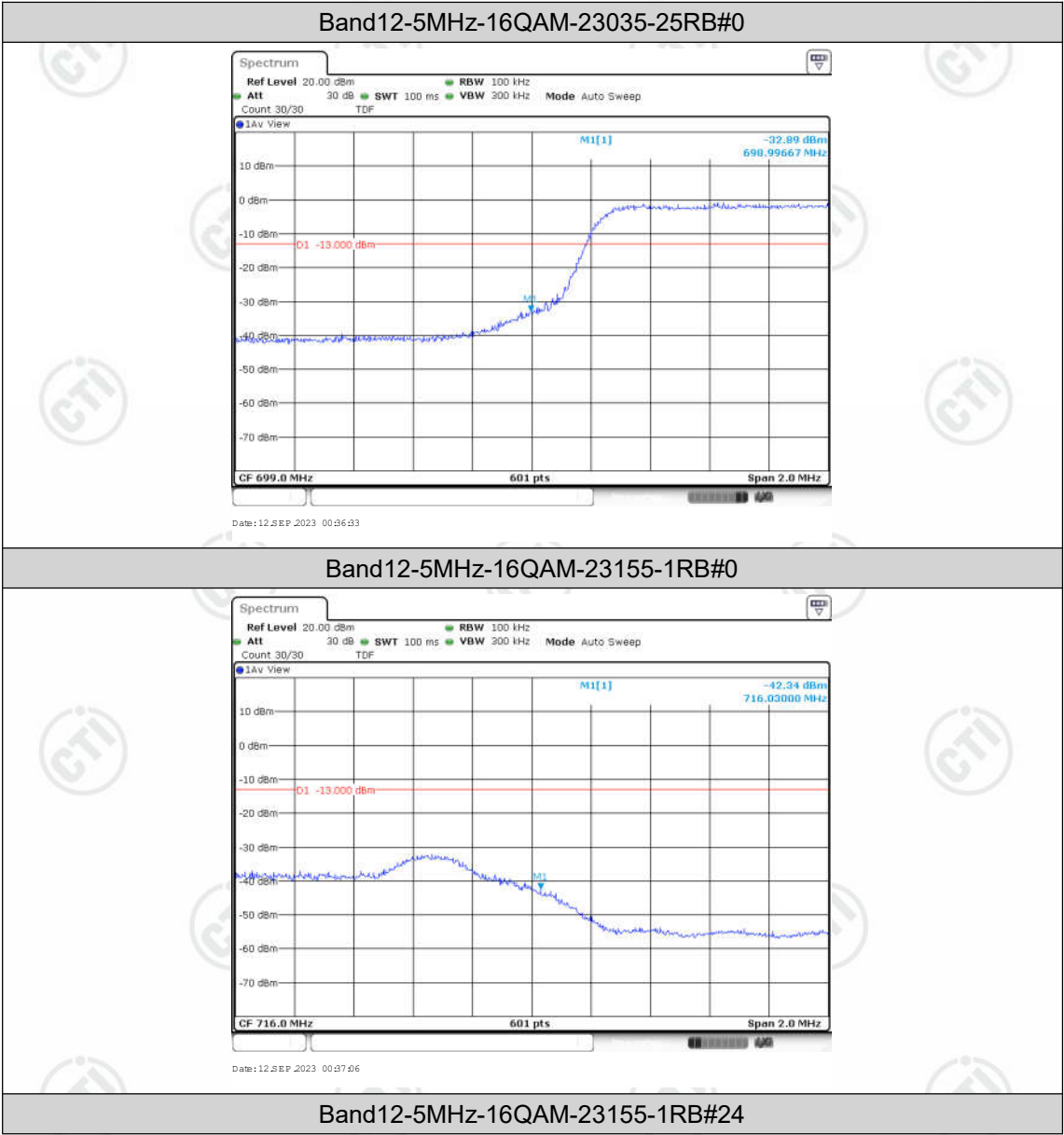


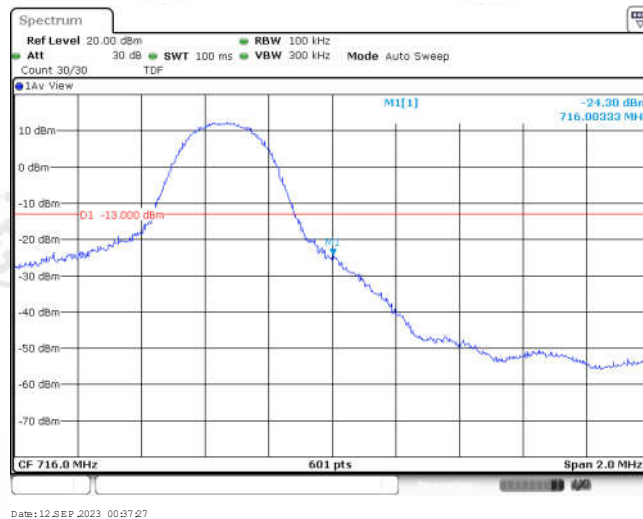
Band12-5MHz-16QAM-23035-1RB#0



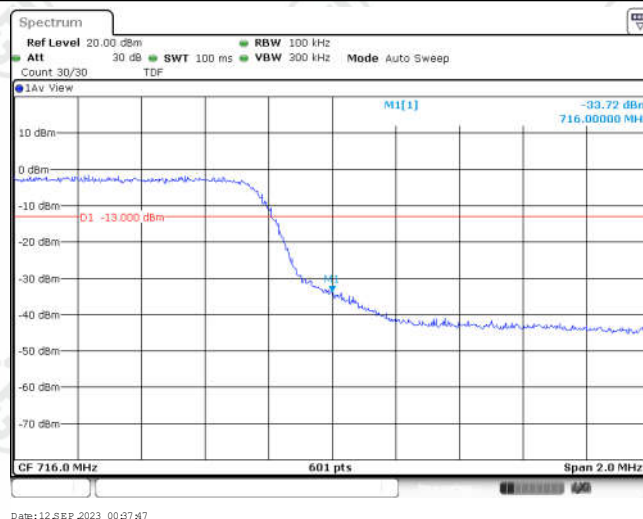
Band12-5MHz-16QAM-23035-1RB#24



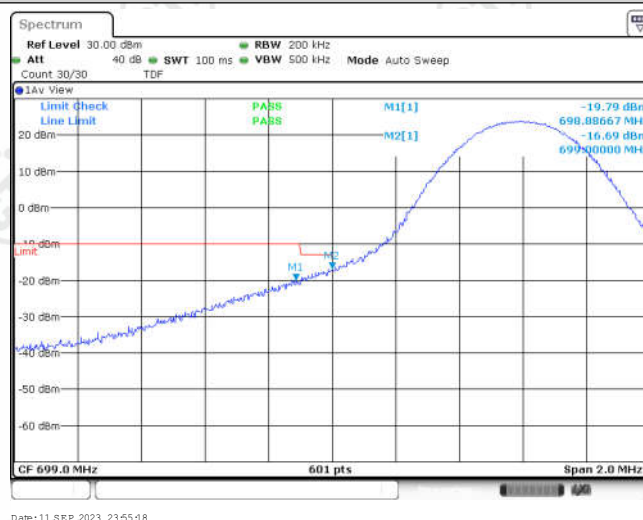


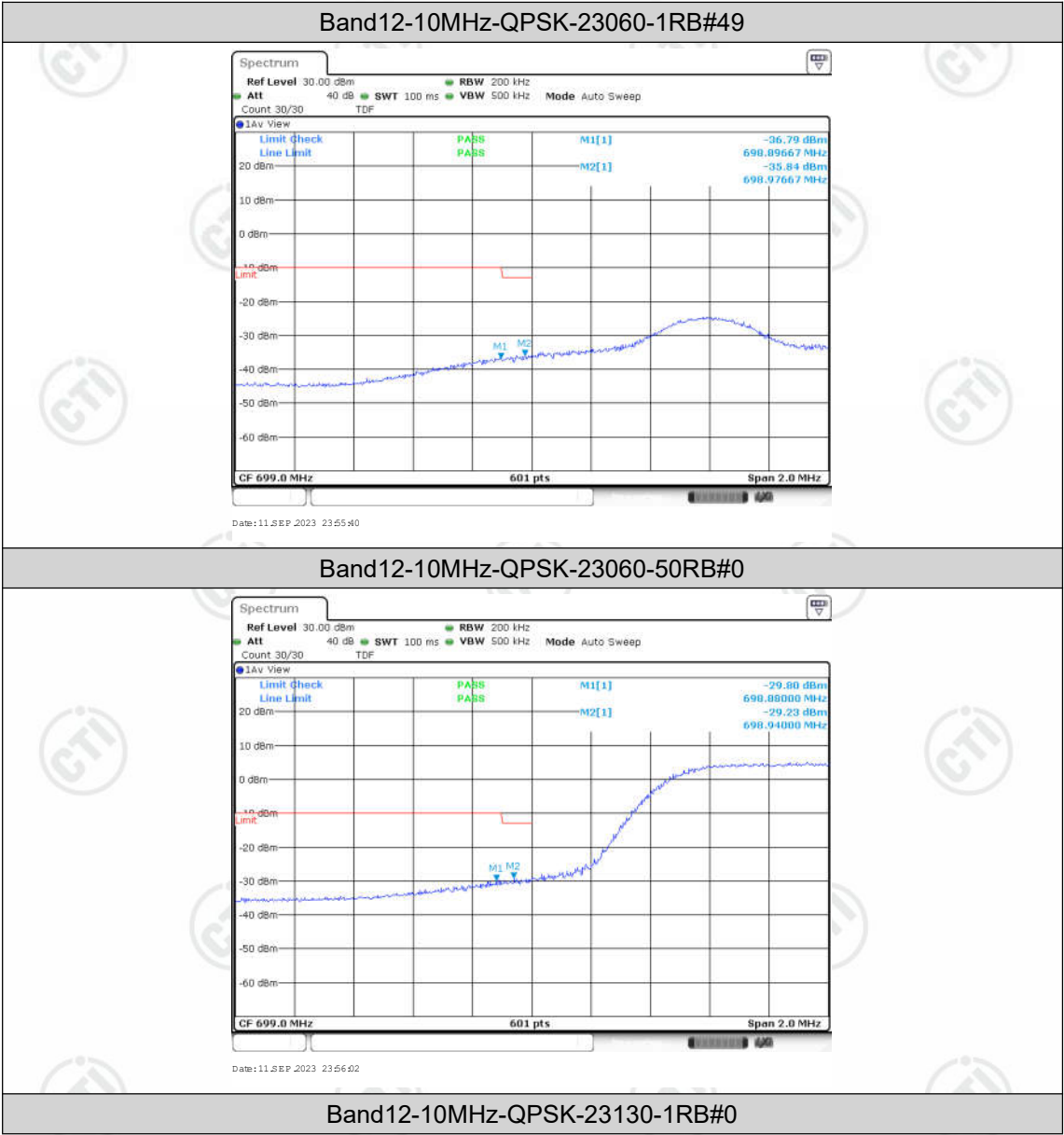


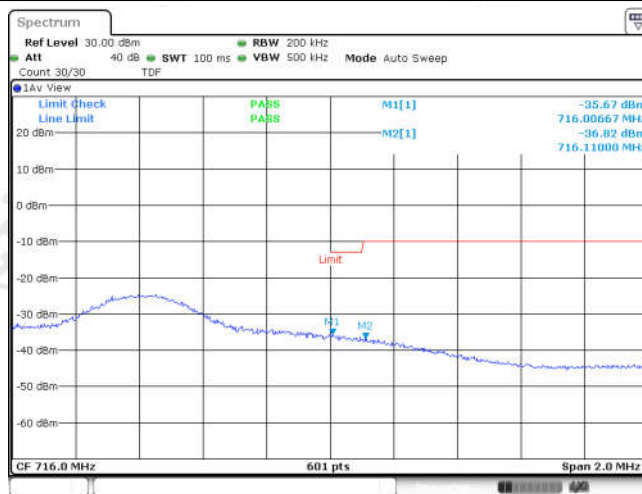
Band12-5MHz-16QAM-23155-25RB#0



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

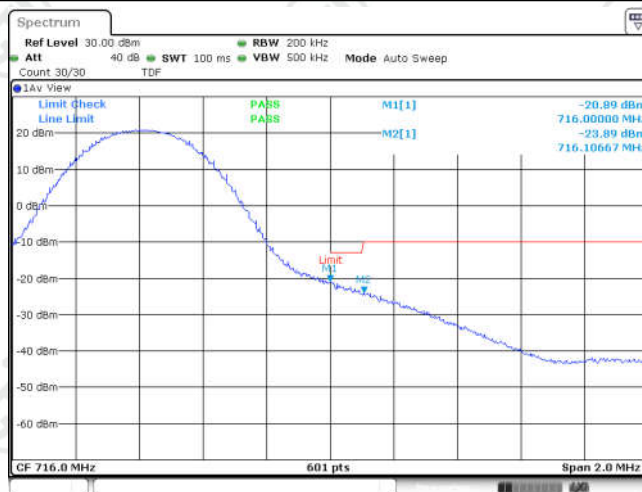






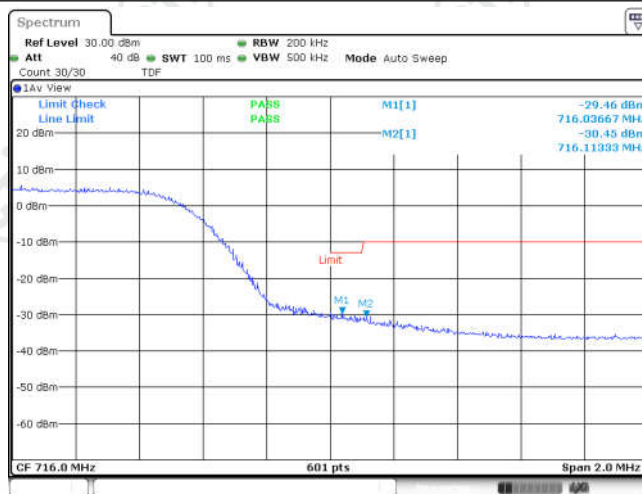
Date: 11 SEP. 2023 23:56:18

Band12-10MHz-QPSK-23130-1RB#49

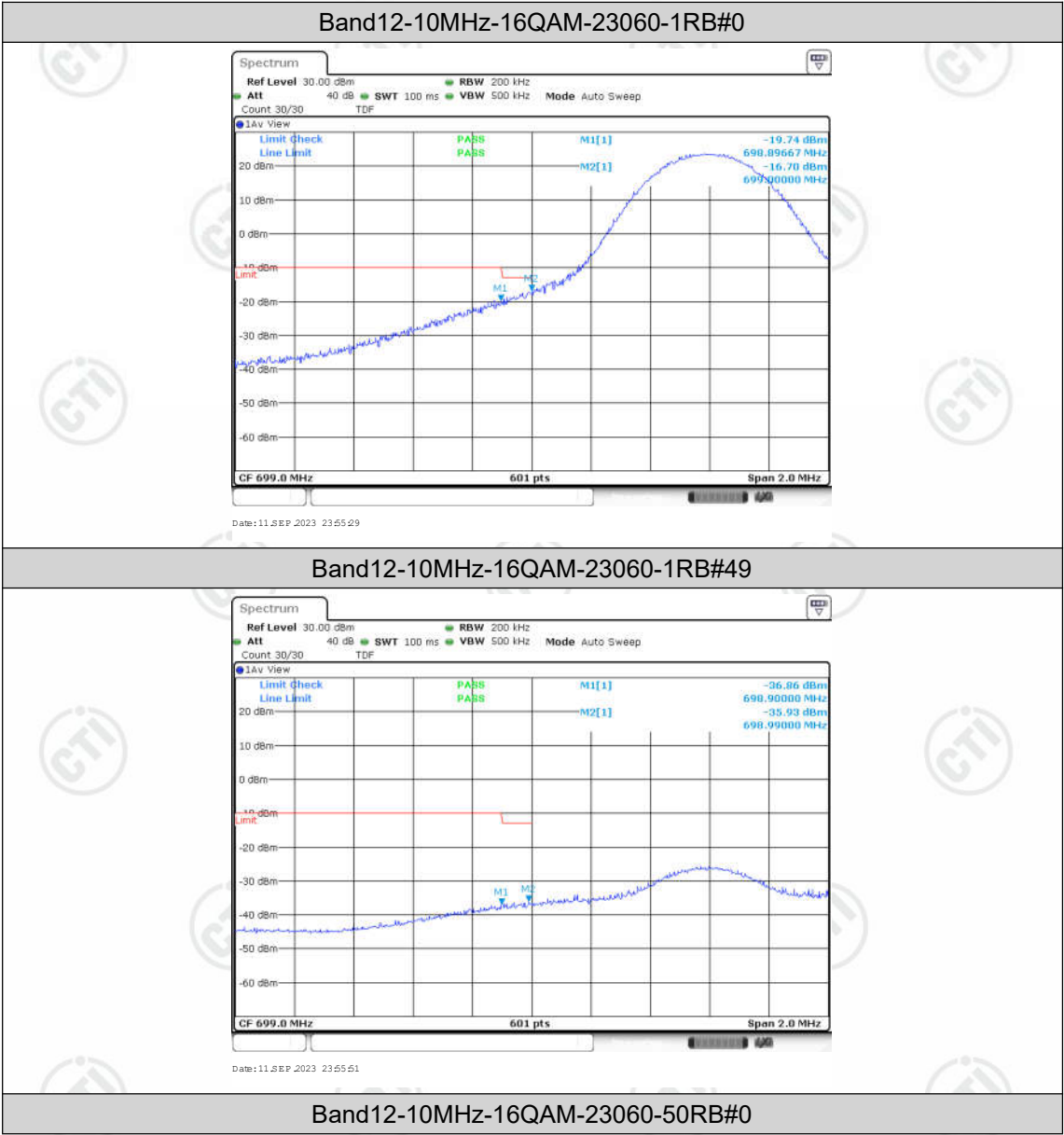


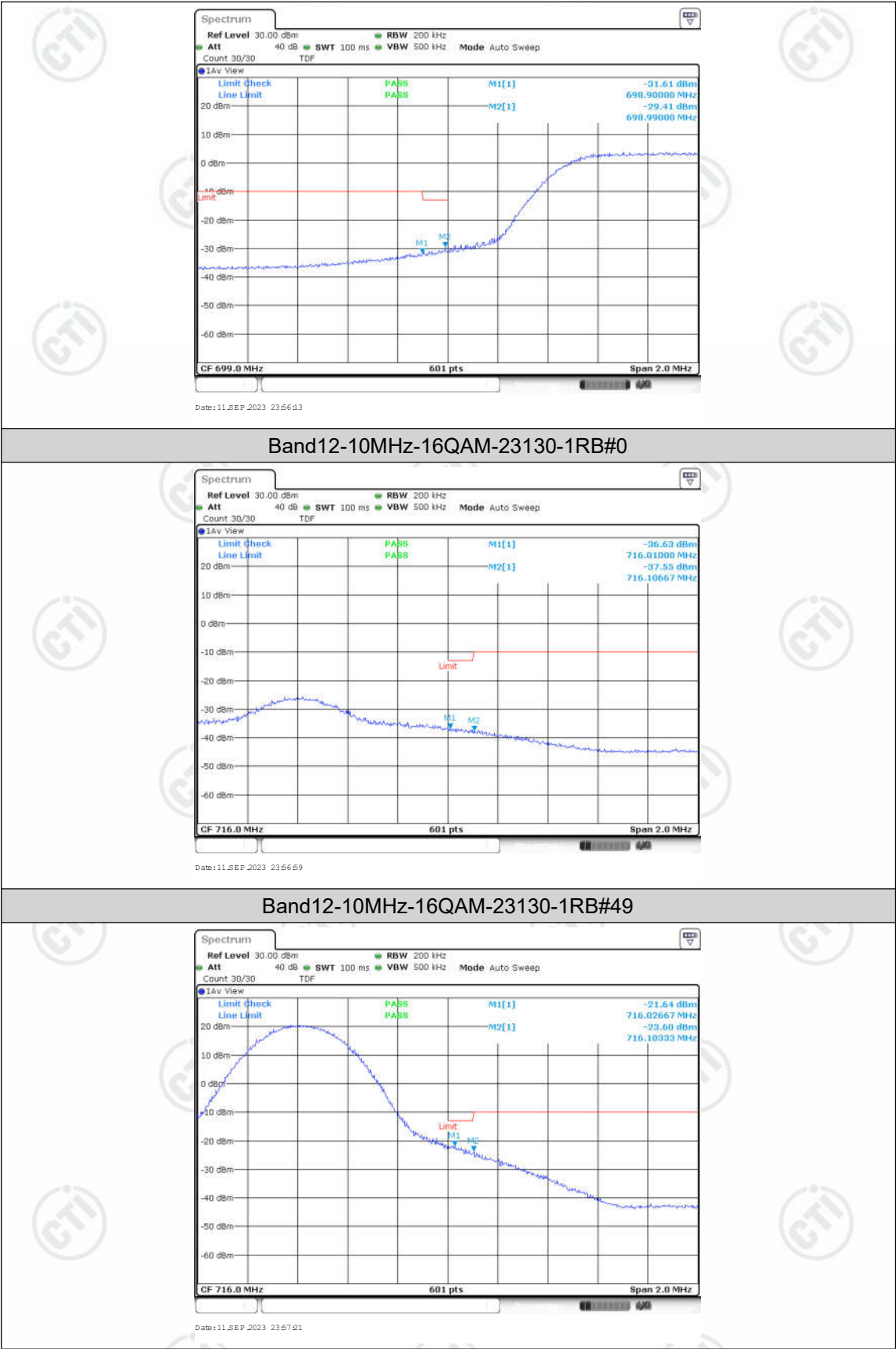
Date: 11 SEP. 2023 23:57:10

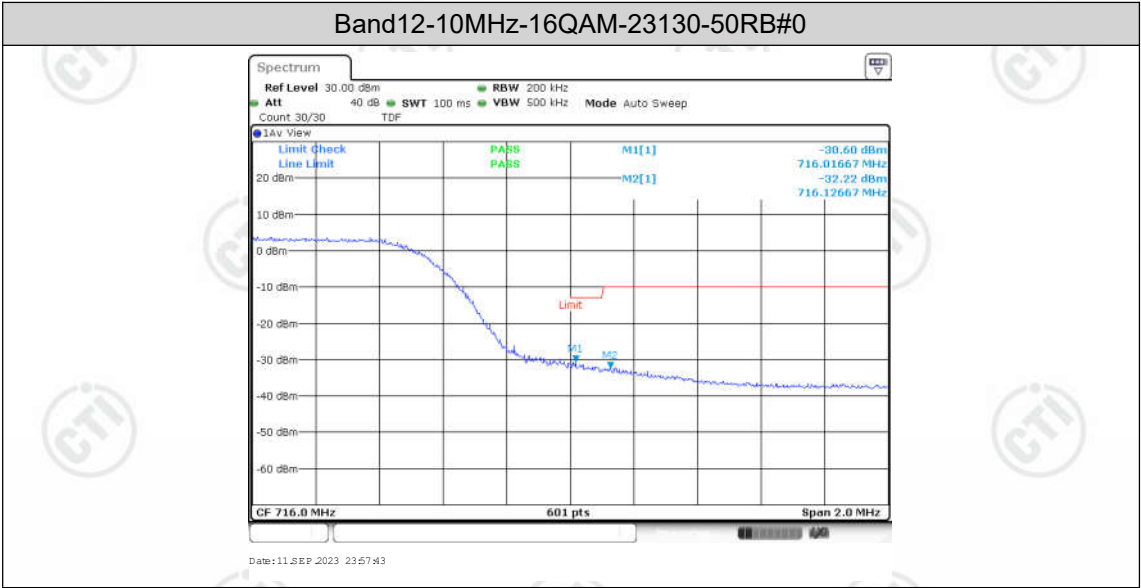
Band12-10MHz-QPSK-23130-50RB#0



Date: 11 SEP. 2023 23:57:32







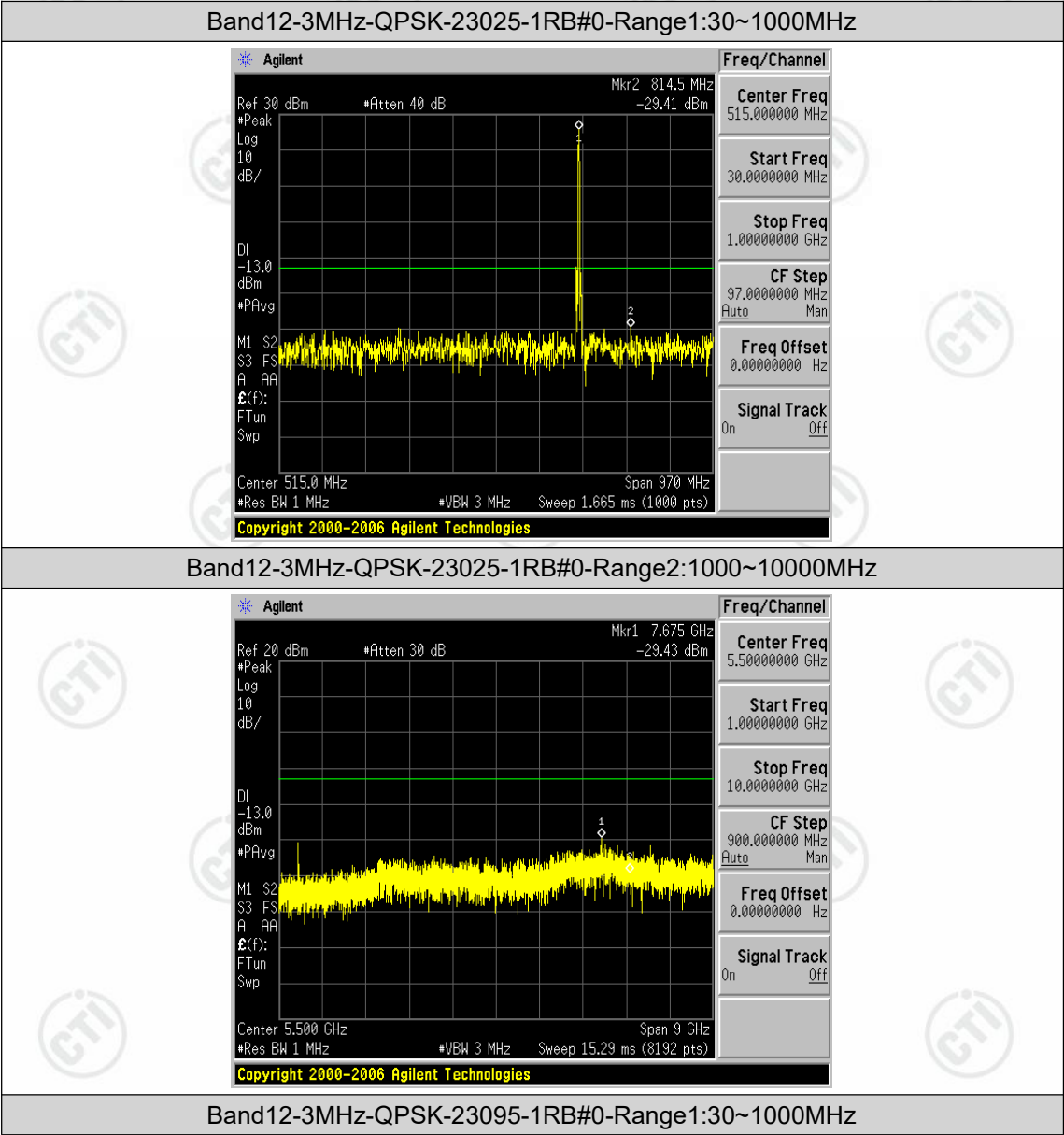
Appendix E: Conducted Spurious Emission

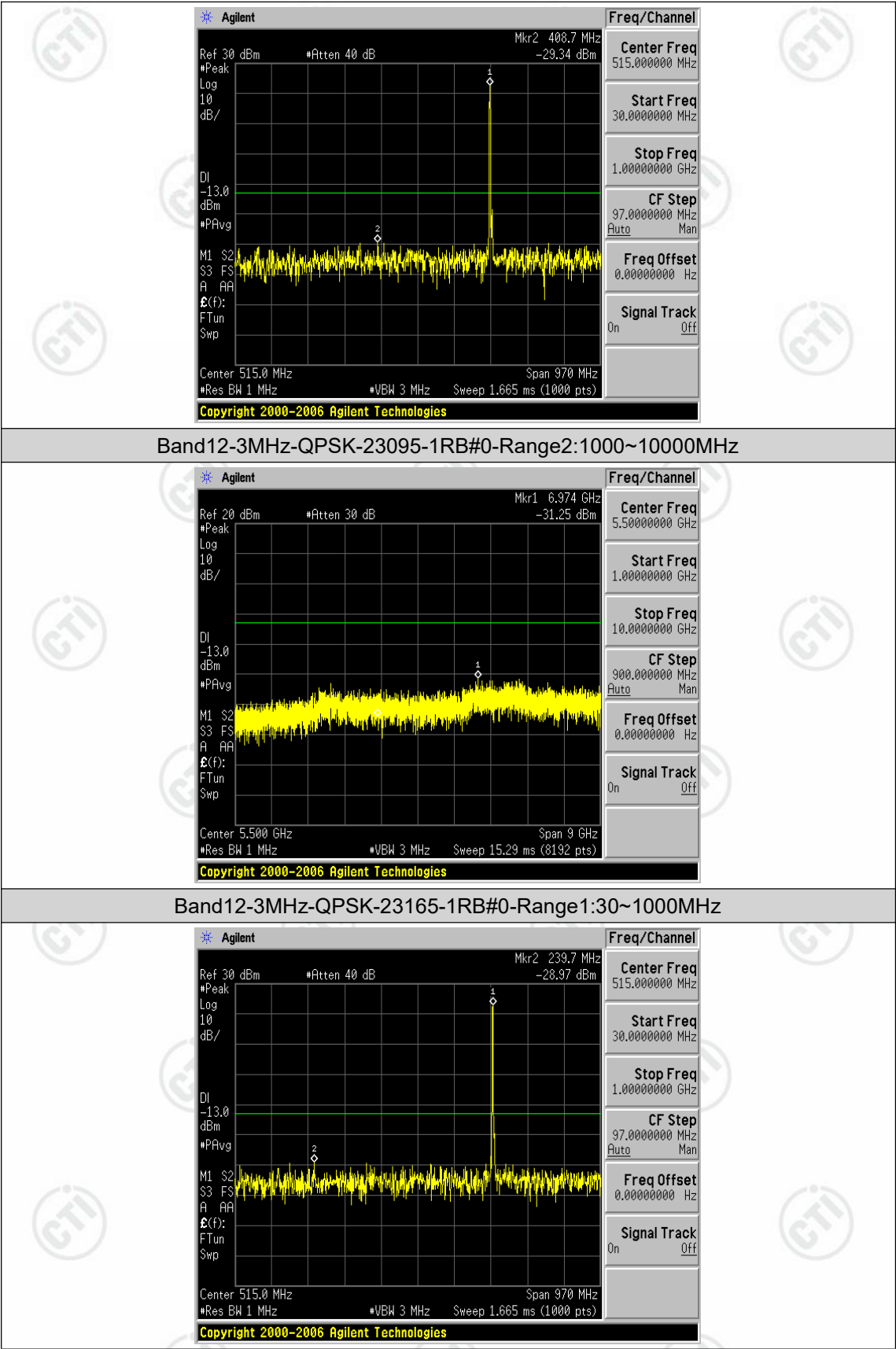
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	3MHz	QPSK	23025	1RB#0	Range1:30~1000MHz	-29.41	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:1000~10000MHz	-29.43	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-29.34	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-31.25	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:30~1000MHz	-28.97	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range2:1000~10000MHz	-31.29	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range1:30~1000MHz	-28.59	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range2:1000~10000MHz	-30.99	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-29.1	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-30.93	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range1:30~1000MHz	-29.26	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range2:1000~10000MHz	-31.63	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:30~1000MHz	-29.2	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:1000~10000MHz	-31.23	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-28.72	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-30.67	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:30~1000MHz	-29.46	PASS

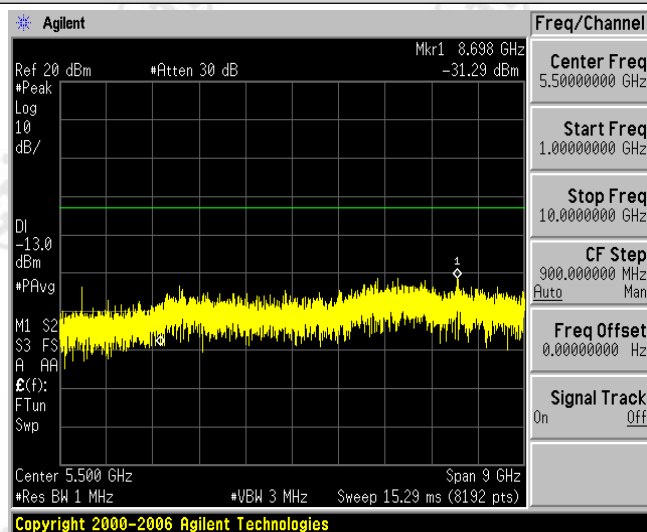
					00MHz		
Band12	5MHz	QPSK	23155	1RB#0	Range2:1000~10000MHz	-25.97	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:30~1000MHz	-29.14	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:1000~10000MHz	-29.68	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-29.64	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-30.62	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:30~1000MHz	-29.35	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:1000~10000MHz	-31.86	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-29.04	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-31.49	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-27.59	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-30.46	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-29.14	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-31.5	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-29.26	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-30.36	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-28.71	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-31.91	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-29.18	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-30.51	PASS

Test Graphs

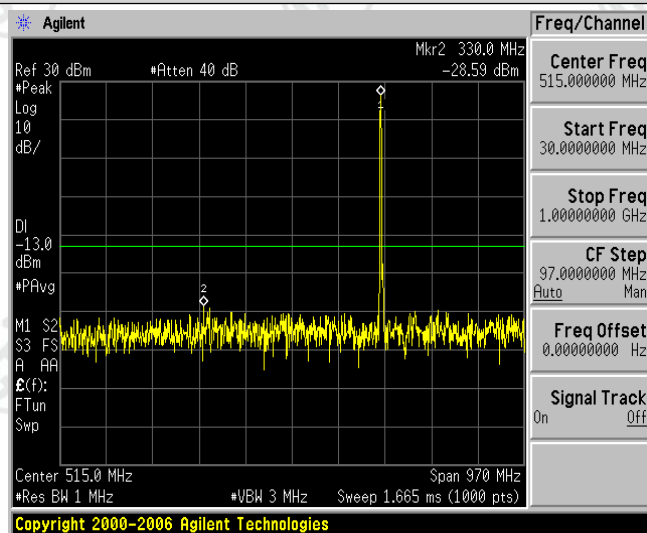




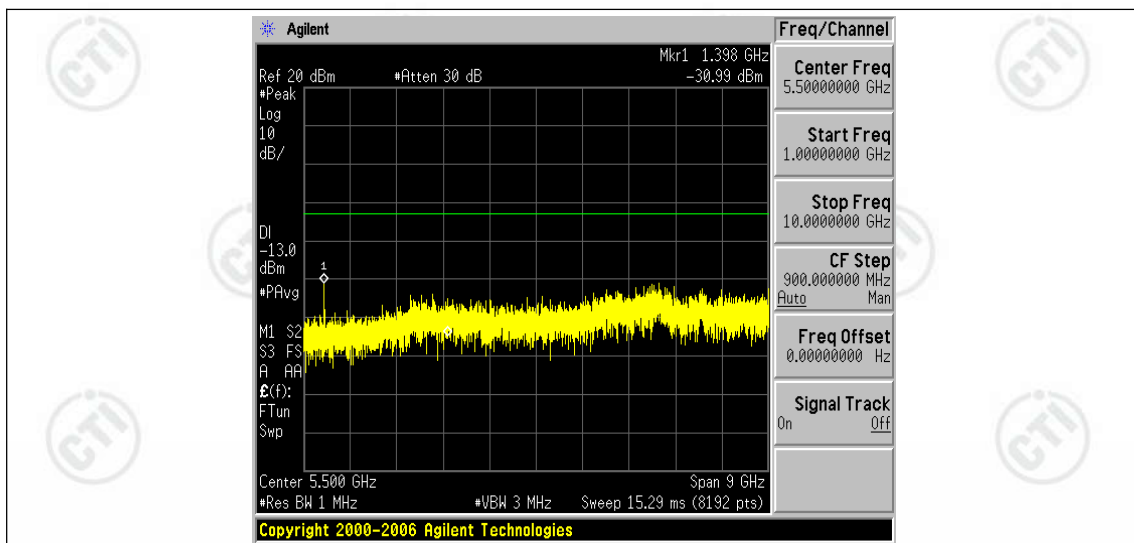
Band12-3MHz-QPSK-23165-1RB#0-Range2:1000~10000MHz



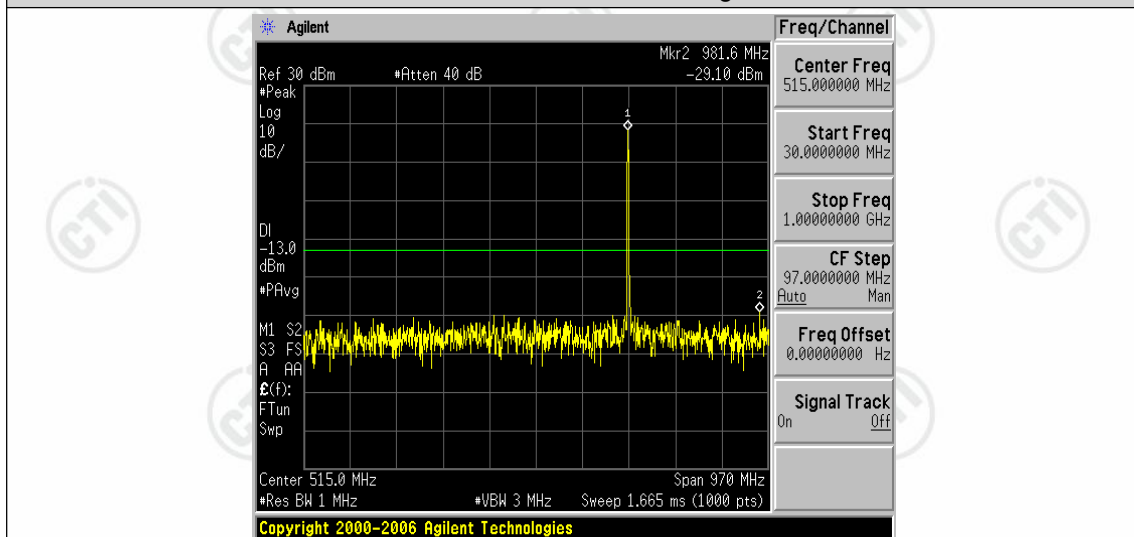
Band12-3MHz-16QAM-23025-1RB#0-Range1:30~1000MHz



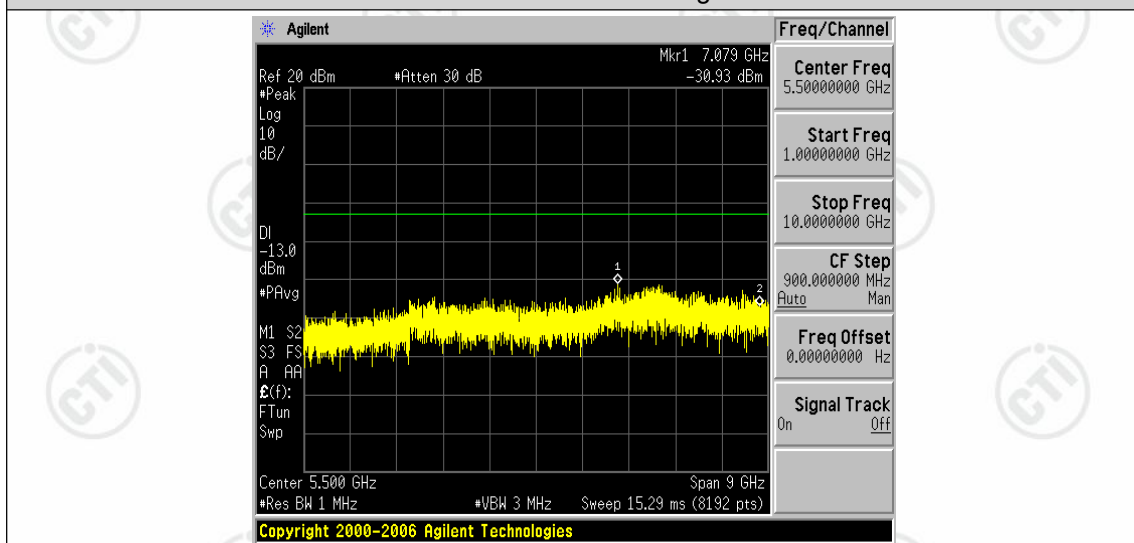
Band12-3MHz-16QAM-23025-1RB#0-Range2:1000~10000MHz

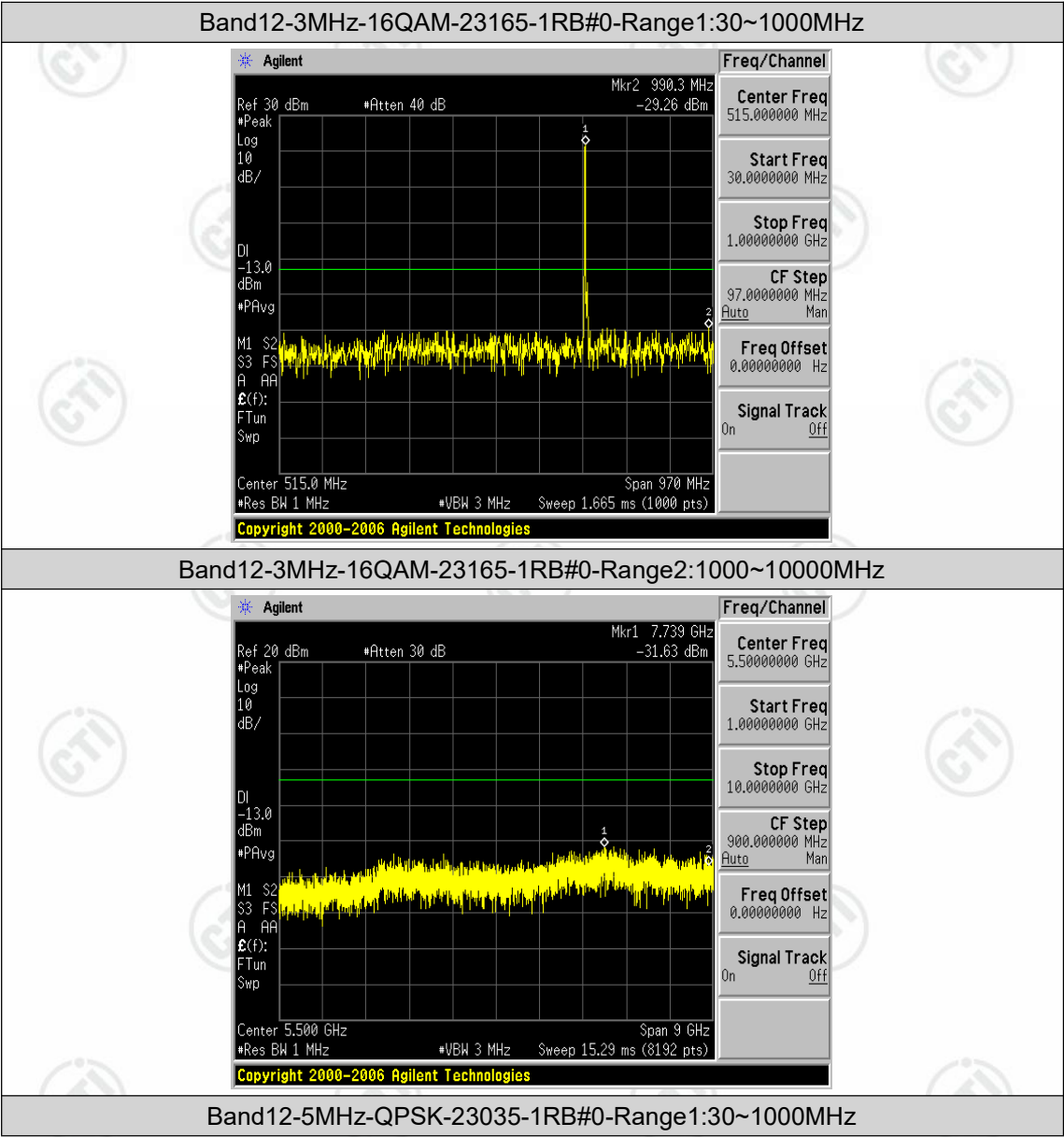


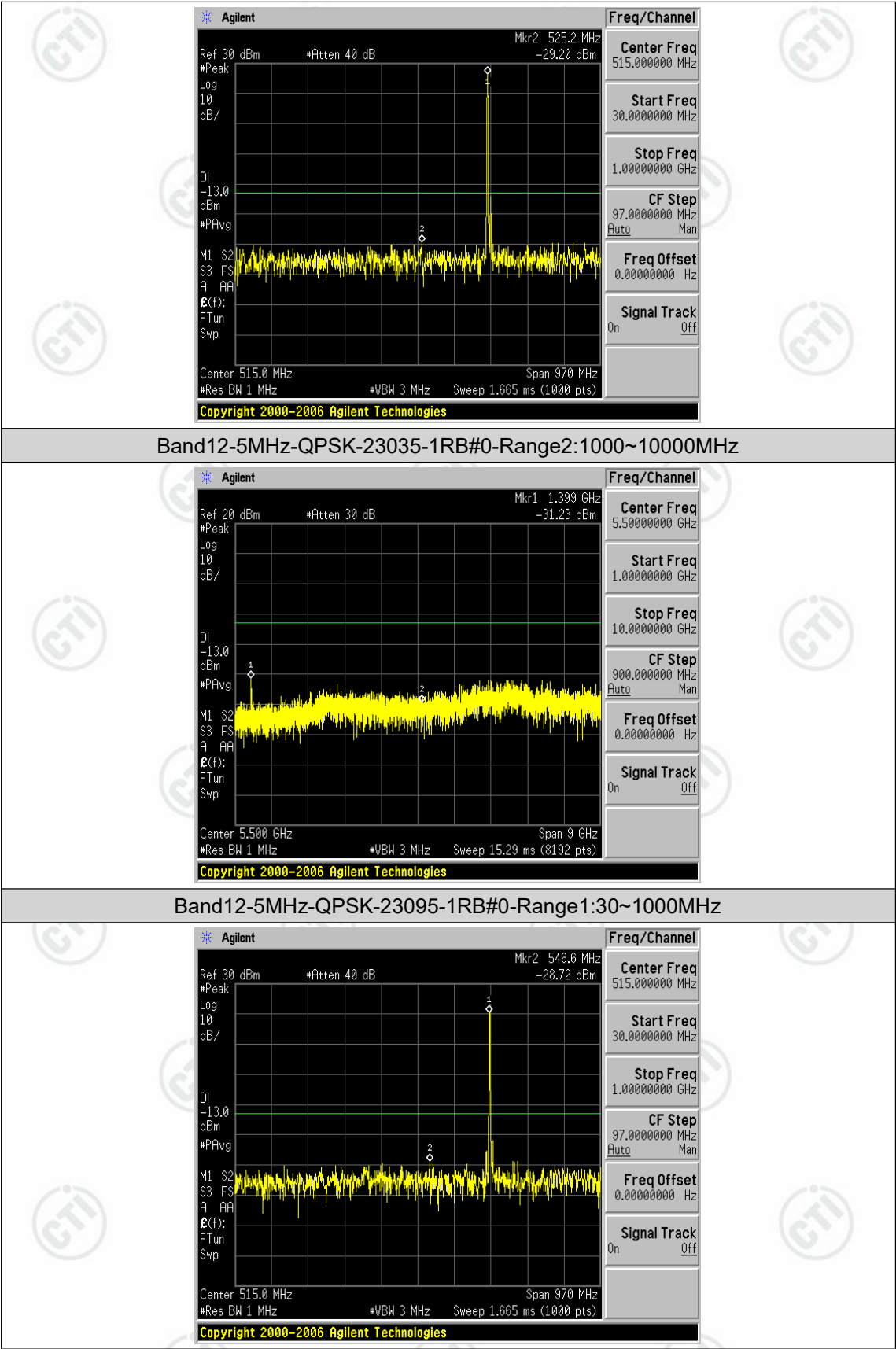
Band12-3MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



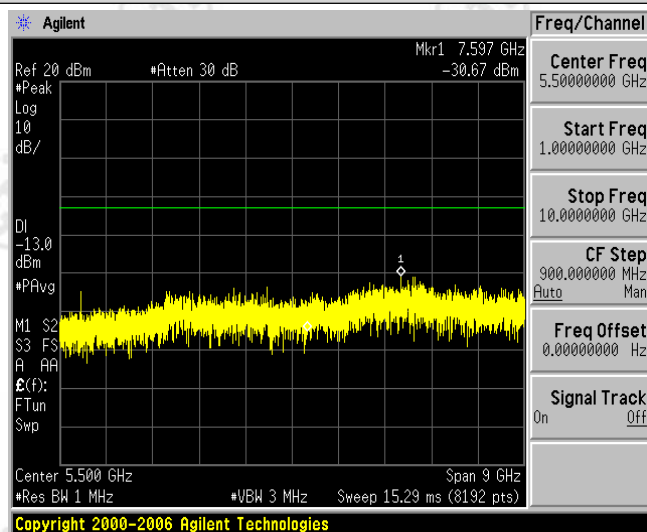
Band12-3MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



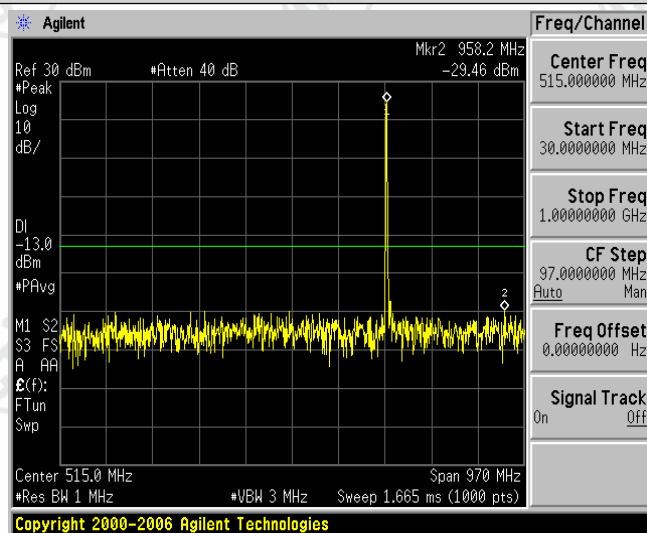




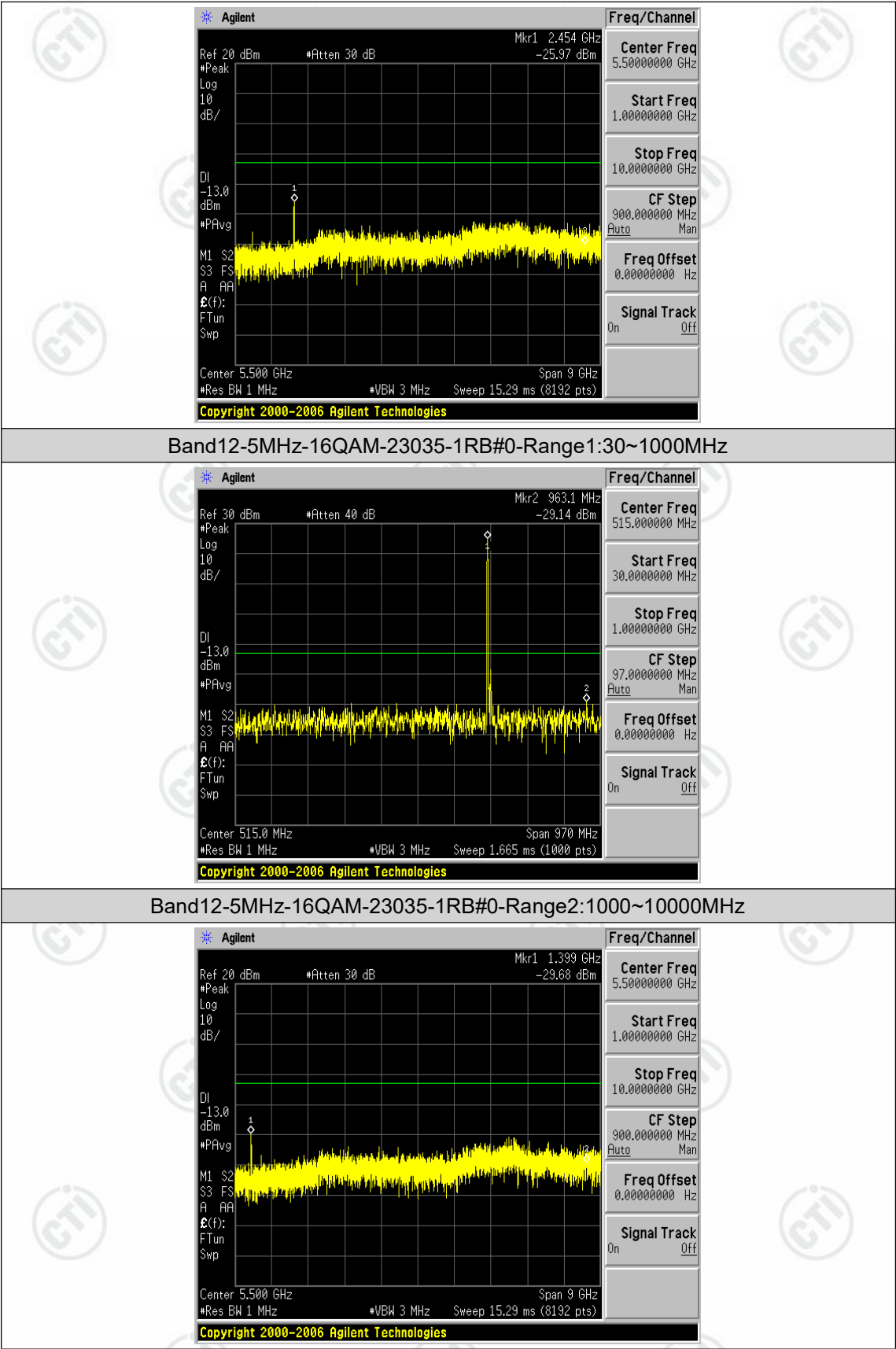
Band12-5MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz

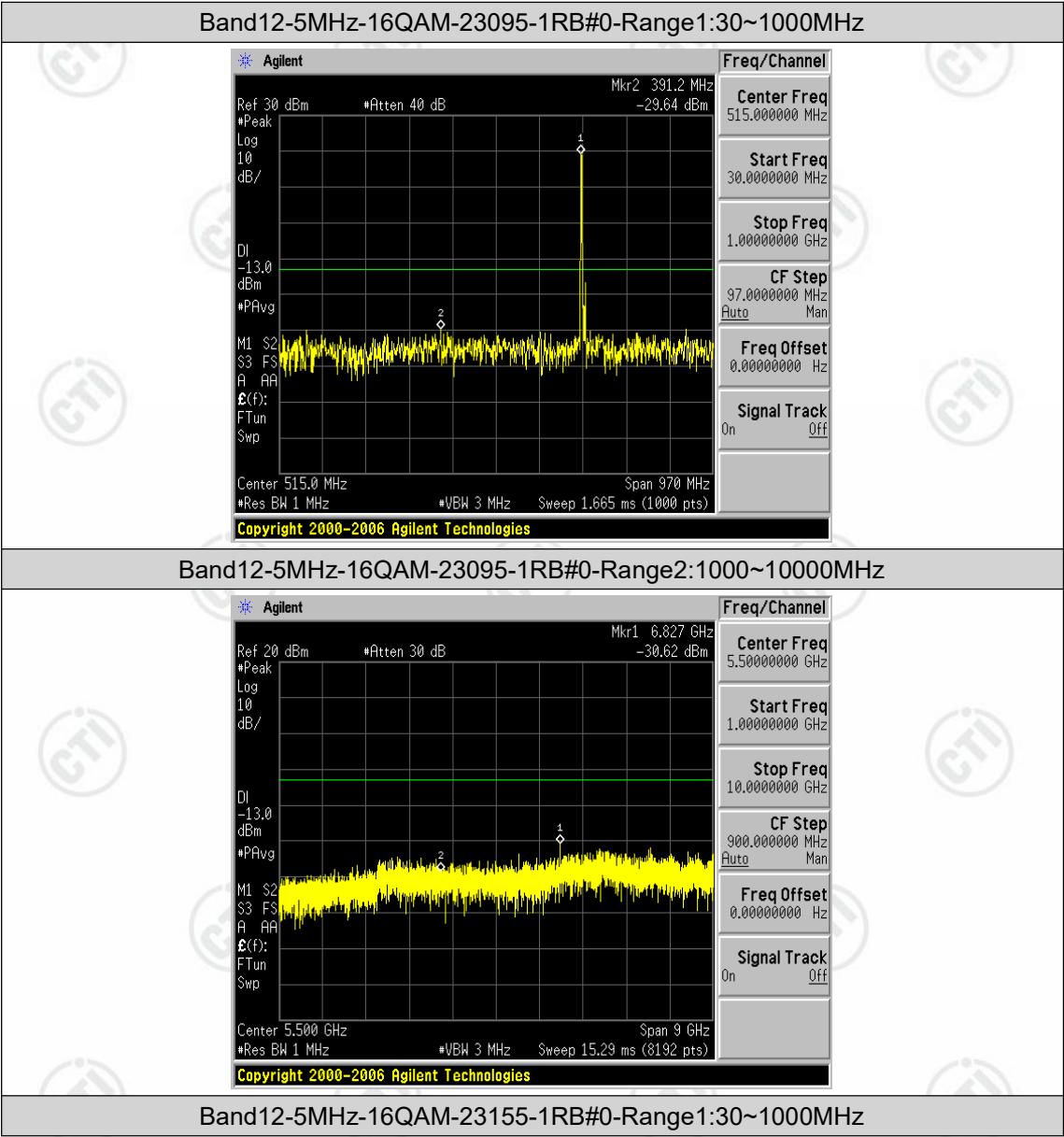


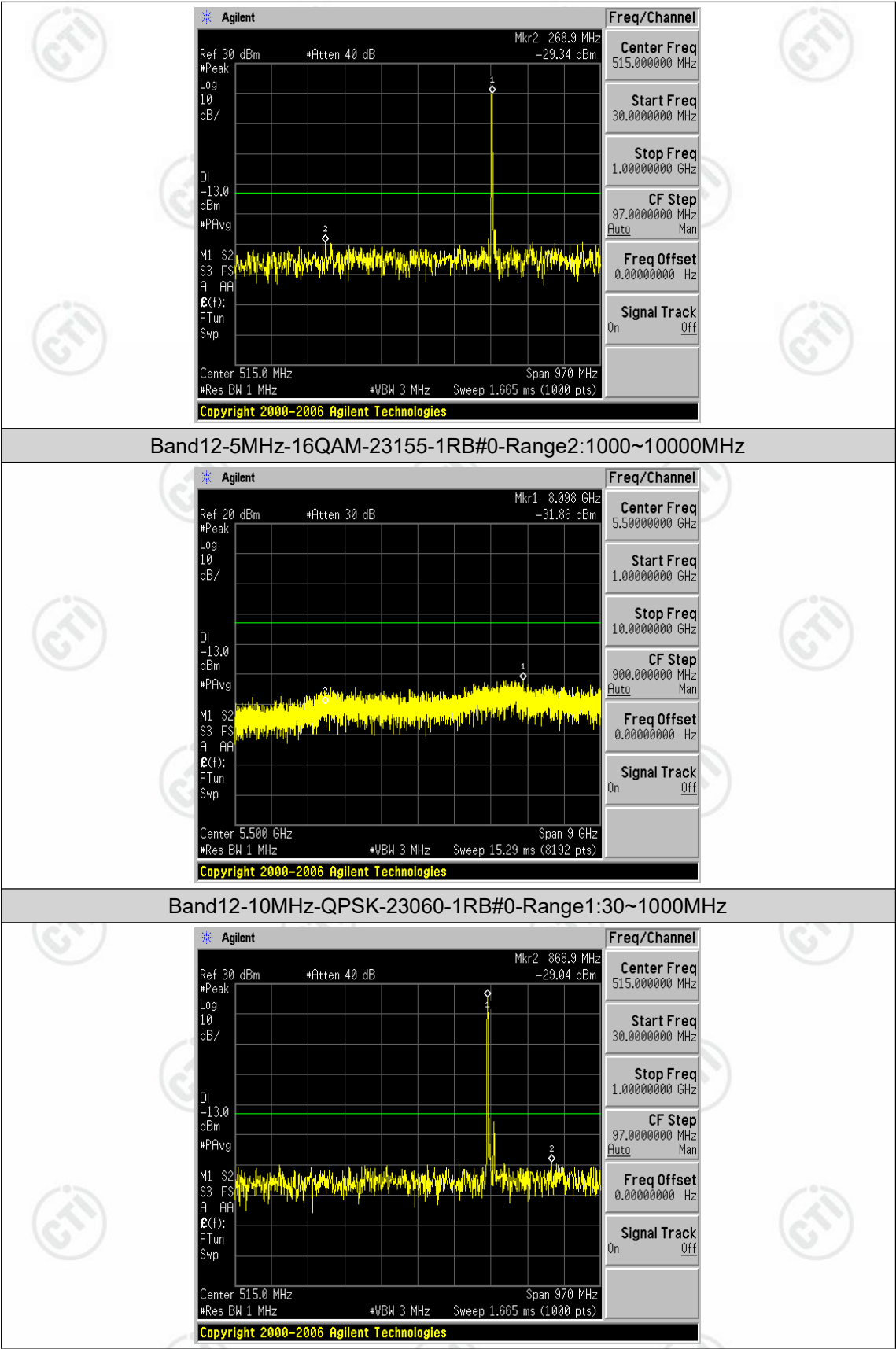
Band12-5MHz-QPSK-23155-1RB#0-Range1:30~1000MHz

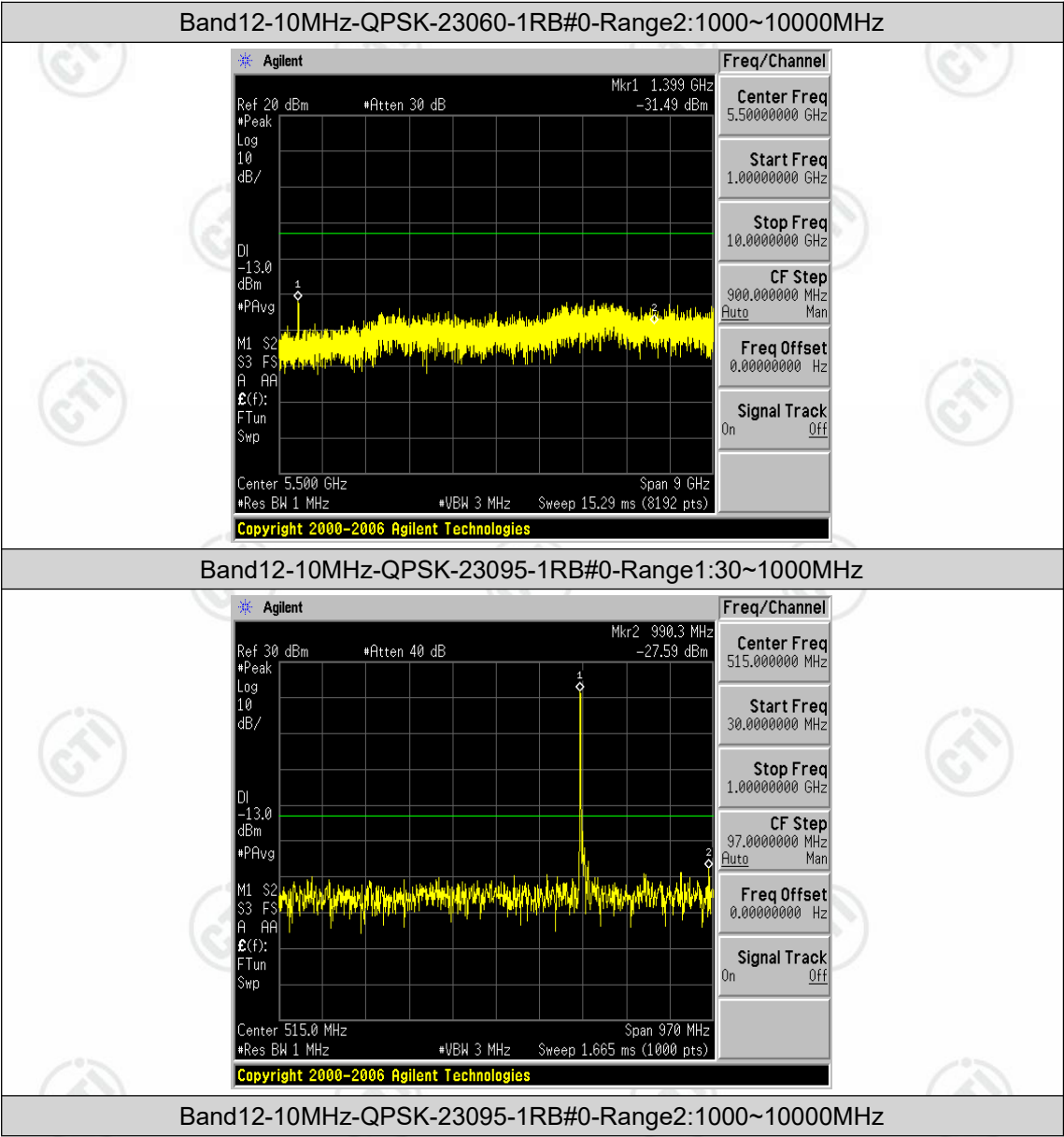


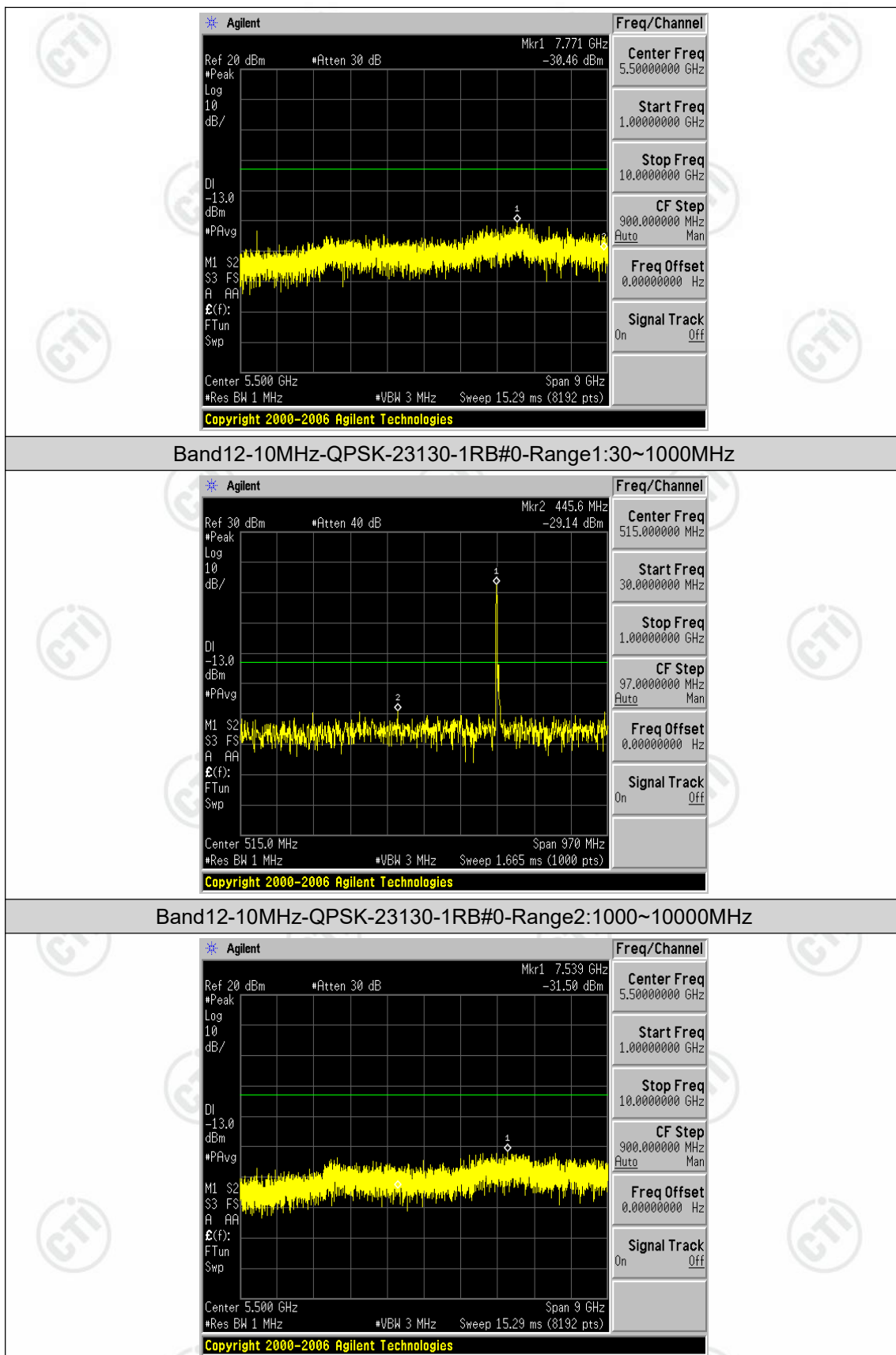
Band12-5MHz-QPSK-23155-1RB#0-Range2:1000~10000MHz

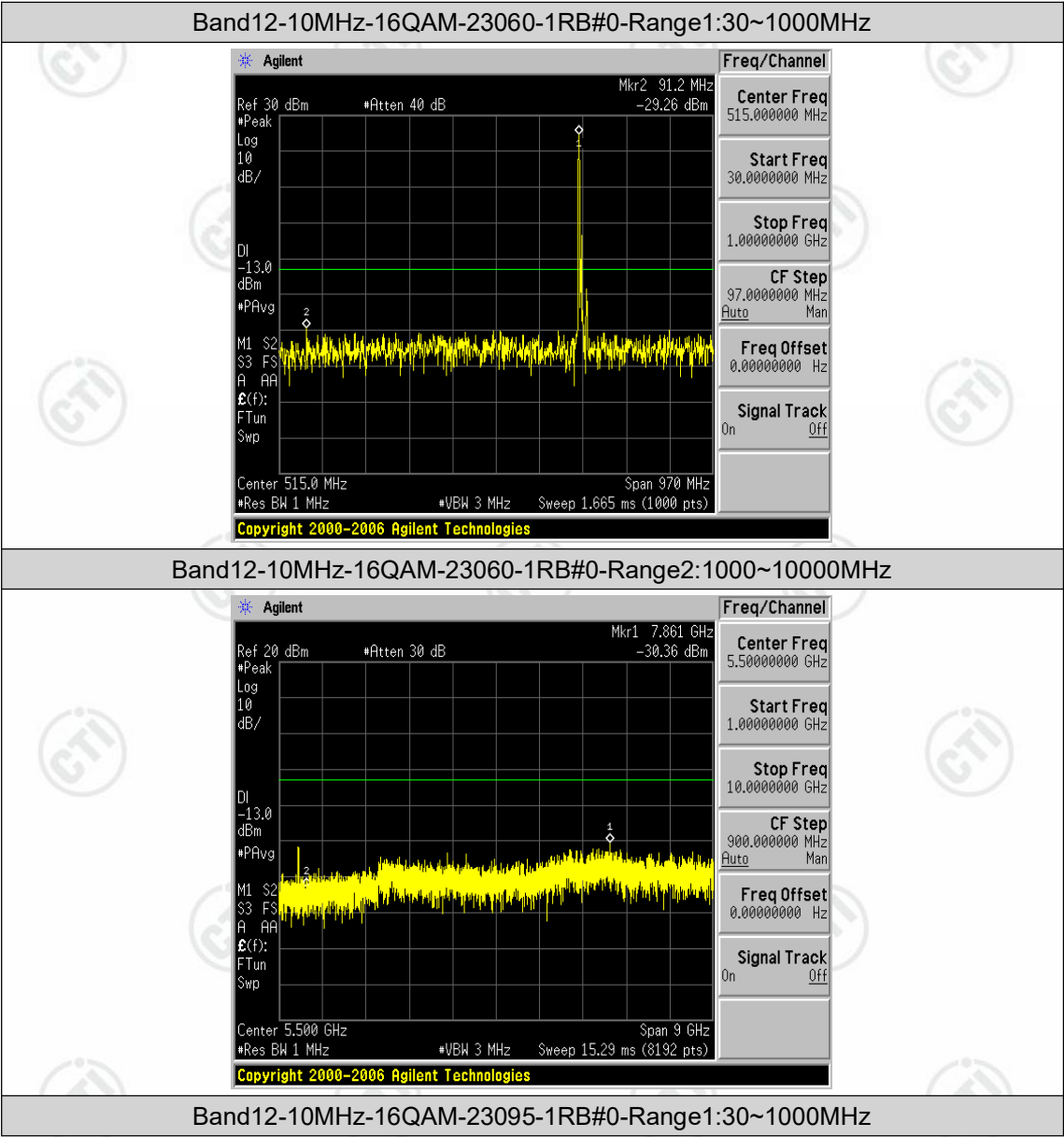


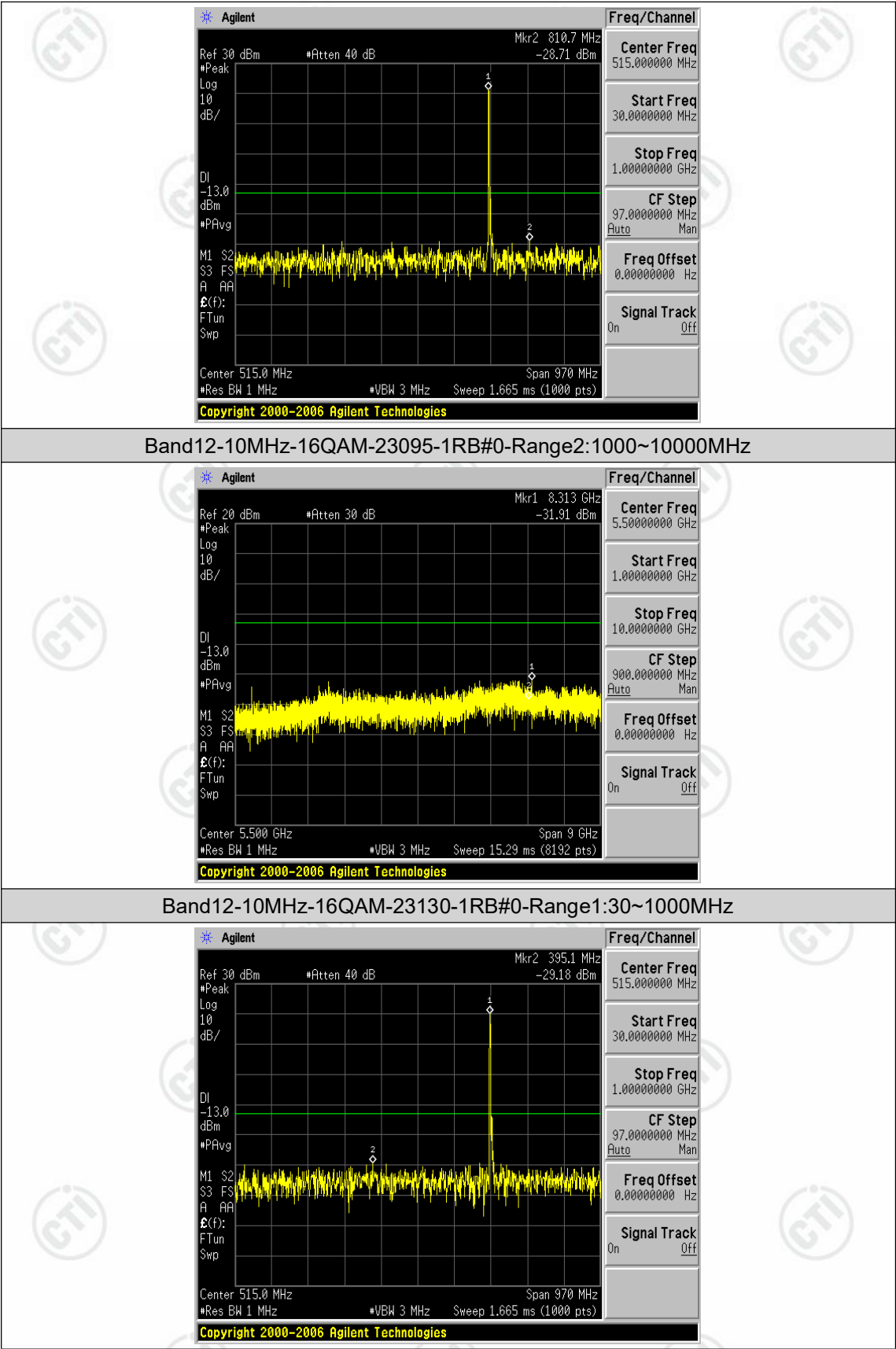


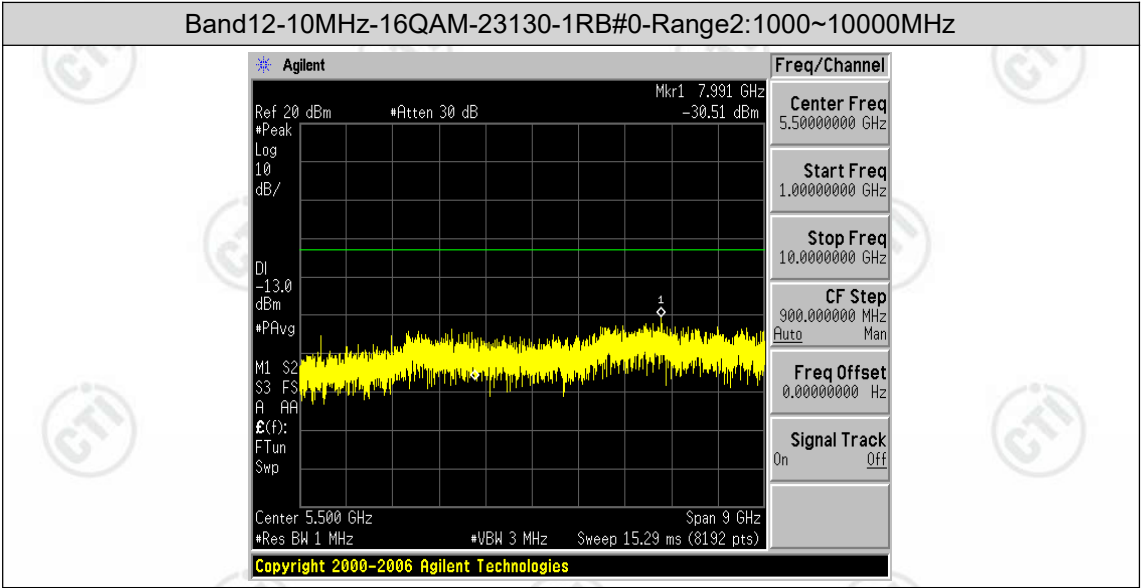












Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	3MHz	QPSK	23025	15RB#0	VL	NT	-3.09	-0.004411	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VN	NT	3.22	0.004597	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	VH	NT	-5.46	-0.007794	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VL	NT	-19.57	-0.027661	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VN	NT	-7.47	-0.010558	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	VH	NT	-22.76	-0.032170	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VL	NT	-23.15	-0.032400	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VN	NT	-18.83	-0.026354	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	VH	NT	-25.51	-0.035703	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VL	NT	-14.92	-0.021299	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VN	NT	-13.68	-0.019529	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	VH	NT	-10.10	-0.014418	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VL	NT	-28.14	-0.039774	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VN	NT	-22.77	-0.032184	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	VH	NT	-29.24	-0.041329	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VL	NT	-18.61	-0.026046	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VN	NT	-19.07	-0.026690	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	VH	NT	-15.41	-0.021568	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VL	NT	-21.80	-0.031076	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VN	NT	-22.24	-0.031703	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	VH	NT	-24.82	-0.035381	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VL	NT	-19.03	-0.026898	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VN	NT	-10.07	-0.014233	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	VH	NT	-23.10	-0.032650	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VL	NT	-5.28	-0.007400	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VN	NT	-3.86	-0.005410	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	VH	NT	-8.41	-0.011787	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VL	NT	-16.68	-0.023778	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VN	NT	-14.41	-0.020542	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	VH	NT	-15.35	-0.021882	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VL	NT	-15.46	-0.021852	±2.5	PASS

Band12	5MHz	16QAM	23095	25RB#0	VN	NT	-14.56	-0.020580	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	VH	NT	-16.75	-0.023675	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VL	NT	5.66	0.007933	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VN	NT	4.32	0.006055	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	VH	NT	5.14	0.007204	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-15.54	-0.022074	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-13.13	-0.018651	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-11.42	-0.016222	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-25.23	-0.035661	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-24.68	-0.034883	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-23.42	-0.033102	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-30.80	-0.043319	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-28.81	-0.040520	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-31.39	-0.044149	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-9.84	-0.013977	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-11.89	-0.016889	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-18.78	-0.026676	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-22.85	-0.032297	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-22.76	-0.032170	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-25.18	-0.035590	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-30.68	-0.043150	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-24.93	-0.035063	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-19.63	-0.027609	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	3MHz	QPSK	23025	15RB#0	NV	-30	-7.28	-0.010393	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	-20	-11.79	-0.016831	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	0	-12.37	-0.017659	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	10	-15.09	-0.021542	±2.5	PASS
Band12	3MHz	QPSK	23025	15RB#0	NV	20	-14.15	-0.020200	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-30	-33.75	-0.047703	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	-20	-22.95	-0.032438	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	0	-22.02	-0.031124	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	10	-23.35	-0.033004	±2.5	PASS
Band12	3MHz	QPSK	23095	15RB#0	NV	20	-27.18	-0.038417	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-30	-24.59	-0.034416	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	-20	-28.70	-0.040168	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	0	-28.82	-0.040336	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	10	-33.07	-0.046284	±2.5	PASS
Band12	3MHz	QPSK	23165	15RB#0	NV	20	-19.34	-0.027068	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-30	-14.46	-0.020642	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	-20	-12.55	-0.017916	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	0	-13.15	-0.018772	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	10	-12.73	-0.018173	±2.5	PASS
Band12	3MHz	16QAM	23025	15RB#0	NV	20	-12.96	-0.018501	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-30	-19.18	-0.027110	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	-20	-17.81	-0.025173	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	0	-18.55	-0.026219	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	10	-19.50	-0.027562	±2.5	PASS
Band12	3MHz	16QAM	23095	15RB#0	NV	20	-18.00	-0.025442	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-30	-20.08	-0.028104	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	-20	-20.94	-0.029307	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	0	-22.40	-0.031351	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	10	-22.86	-0.031994	±2.5	PASS
Band12	3MHz	16QAM	23165	15RB#0	NV	20	-19.48	-0.027264	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-30	-24.15	-0.034426	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	-20	-24.76	-0.035296	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	0	-26.59	-0.037904	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	10	-26.38	-0.037605	±2.5	PASS
Band12	5MHz	QPSK	23035	25RB#0	NV	20	-17.07	-0.024334	±2.5	PASS

Band12	5MHz	QPSK	23095	25RB#0	NV	-30	-27.71	-0.039166	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	-20	-27.05	-0.038233	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	0	-19.01	-0.026869	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	10	-15.66	-0.022134	±2.5	PASS
Band12	5MHz	QPSK	23095	25RB#0	NV	20	-21.46	-0.030332	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-30	-6.81	-0.009544	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	-20	-4.46	-0.006251	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	0	-7.35	-0.010301	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	10	-5.66	-0.007933	±2.5	PASS
Band12	5MHz	QPSK	23155	25RB#0	NV	20	-5.19	-0.007274	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-30	-17.22	-0.024547	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	-20	-16.16	-0.023036	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	0	-11.49	-0.016379	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	10	-15.82	-0.022552	±2.5	PASS
Band12	5MHz	16QAM	23035	25RB#0	NV	20	-17.70	-0.025232	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-30	-16.54	-0.023378	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	-20	-18.74	-0.026488	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	0	-20.13	-0.028452	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	10	-19.23	-0.027180	±2.5	PASS
Band12	5MHz	16QAM	23095	25RB#0	NV	20	-19.94	-0.028184	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-30	6.27	0.008788	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	-20	6.84	0.009587	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	0	11.09	0.015543	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	10	5.76	0.008073	±2.5	PASS
Band12	5MHz	16QAM	23155	25RB#0	NV	20	3.38	0.004737	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-12.97	-0.018423	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-13.15	-0.018679	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-14.32	-0.020341	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-14.63	-0.020781	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-16.89	-0.023991	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-24.65	-0.034841	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-28.67	-0.040523	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-20.84	-0.029456	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-25.12	-0.035505	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-26.75	-0.037809	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-25.88	-0.036399	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-19.91	-0.028003	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-28.31	-0.039817	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-24.32	-0.034205	±2.5	PASS

Band12	10MHz	QPSK	23130	50RB#0	NV	20	-30.60	-0.043038	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-15.56	-0.022102	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-17.78	-0.025256	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-19.93	-0.028310	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-15.82	-0.022472	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	-18.12	-0.025739	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-19.86	-0.028071	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-23.93	-0.033823	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-18.37	-0.025965	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-25.23	-0.035661	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-21.93	-0.030996	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-24.10	-0.033896	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-26.64	-0.037468	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-31.01	-0.043615	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-21.67	-0.030478	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-25.75	-0.036217	±2.5	PASS

*** End of Report ***