

LTE-Cat M1 Band12 Test Data

General Description of EUT	
Product Name:	SILO-HW-CELL
Test Model:	SILO-FILL-CELL
Sample No.:	HC-C-202312-0122-01-01-2#
Standard:	47 CFR Part 2, 27 RSS-Gen Issue 5 RSS-130 Issue 2
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 4.5V
Test Engineer:	Rick.chen
Note: For a more detailed features description, please refer to the report TBR-C-202312-0122-66 . The report only show the worst casa data.	

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1: Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	Limit	Verdict
Band12	1.4MHz	QPSK	23017	1	0	Low	18.85	34.8	PASS
Band12	1.4MHz	16QAM	23017	1	0	Low	18.83	34.8	PASS
Band12	1.4MHz	QPSK	23017	1	5	Low	18.82	34.8	PASS
Band12	1.4MHz	16QAM	23017	1	5	Low	18.82	34.8	PASS
Band12	1.4MHz	QPSK	23017	6	0	Low	18.81	34.8	PASS
Band12	1.4MHz	16QAM	23017	6	0	Low	18.80	34.8	PASS
Band12	1.4MHz	QPSK	23095	1	0	Low	18.62	34.8	PASS
Band12	1.4MHz	16QAM	23095	1	0	Low	18.58	34.8	PASS
Band12	1.4MHz	QPSK	23095	1	5	Low	18.57	34.8	PASS
Band12	1.4MHz	16QAM	23095	1	5	Low	18.56	34.8	PASS
Band12	1.4MHz	QPSK	23095	6	0	Low	18.56	34.8	PASS
Band12	1.4MHz	16QAM	23095	6	0	Low	18.55	34.8	PASS
Band12	1.4MHz	QPSK	23173	1	0	High	18.49	34.8	PASS
Band12	1.4MHz	16QAM	23173	1	0	High	18.44	34.8	PASS
Band12	1.4MHz	QPSK	23173	1	5	High	18.29	34.8	PASS
Band12	1.4MHz	16QAM	23173	1	5	High	18.63	34.8	PASS
Band12	1.4MHz	QPSK	23173	6	0	High	18.62	34.8	PASS
Band12	1.4MHz	16QAM	23173	6	0	High	18.61	34.8	PASS
Band12	3MHz	QPSK	23025	1	0	Low	18.82	34.8	PASS
Band12	3MHz	16QAM	23025	1	0	Low	18.82	34.8	PASS
Band12	3MHz	QPSK	23025	1	5	Low	18.81	34.8	PASS
Band12	3MHz	16QAM	23025	1	5	Low	18.81	34.8	PASS
Band12	3MHz	QPSK	23025	6	0	Low	18.80	34.8	PASS
Band12	3MHz	16QAM	23025	6	0	Low	18.80	34.8	PASS
Band12	3MHz	QPSK	23095	1	0	Low	18.66	34.8	PASS
Band12	3MHz	16QAM	23095	1	0	Low	18.64	34.8	PASS
Band12	3MHz	QPSK	23095	1	5	Low	18.63	34.8	PASS
Band12	3MHz	16QAM	23095	1	5	Low	18.63	34.8	PASS
Band12	3MHz	QPSK	23095	6	0	Low	18.63	34.8	PASS
Band12	3MHz	16QAM	23095	6	0	Low	18.62	34.8	PASS
Band12	3MHz	QPSK	23165	1	0	High	18.44	34.8	PASS
Band12	3MHz	16QAM	23165	1	0	High	18.54	34.8	PASS
Band12	3MHz	QPSK	23165	1	5	High	18.53	34.8	PASS
Band12	3MHz	16QAM	23165	1	5	High	18.53	34.8	PASS
Band12	3MHz	QPSK	23165	6	0	High	18.53	34.8	PASS
Band12	3MHz	16QAM	23165	6	0	High	18.53	34.8	PASS
Band12	5MHz	QPSK	23035	1	0	Low	20.18	34.8	PASS
Band12	5MHz	16QAM	23035	1	0	Low	20.17	34.8	PASS
Band12	5MHz	QPSK	23035	1	5	Low	20.17	34.8	PASS

Band12	5MHz	16QAM	23035	1	5	Low	20.16	34.8	PASS
Band12	5MHz	QPSK	23035	6	0	Low	20.16	34.8	PASS
Band12	5MHz	16QAM	23035	6	0	Low	20.16	34.8	PASS
Band12	5MHz	QPSK	23095	1	0	Low	19.90	34.8	PASS
Band12	5MHz	16QAM	23095	1	0	Low	19.91	34.8	PASS
Band12	5MHz	QPSK	23095	1	5	Low	19.91	34.8	PASS
Band12	5MHz	16QAM	23095	1	5	Low	19.90	34.8	PASS
Band12	5MHz	QPSK	23095	6	0	Low	19.90	34.8	PASS
Band12	5MHz	16QAM	23095	6	0	Low	19.89	34.8	PASS
Band12	5MHz	QPSK	23155	1	0	High	19.70	34.8	PASS
Band12	5MHz	16QAM	23155	1	0	High	19.69	34.8	PASS
Band12	5MHz	QPSK	23155	1	5	High	19.68	34.8	PASS
Band12	5MHz	16QAM	23155	1	5	High	19.68	34.8	PASS
Band12	5MHz	QPSK	23155	6	0	High	19.68	34.8	PASS
Band12	5MHz	16QAM	23155	6	0	High	19.77	34.8	PASS
Band12	10MHz	QPSK	23060	1	0	Low	20.02	34.8	PASS
Band12	10MHz	16QAM	23060	1	0	Low	20.02	34.8	PASS
Band12	10MHz	QPSK	23060	1	5	Low	20.02	34.8	PASS
Band12	10MHz	16QAM	23060	1	5	Low	20.02	34.8	PASS
Band12	10MHz	QPSK	23060	6	0	Low	20.02	34.8	PASS
Band12	10MHz	16QAM	23060	6	0	Low	20.02	34.8	PASS
Band12	10MHz	QPSK	23095	1	0	Low	19.92	34.8	PASS
Band12	10MHz	16QAM	23095	1	0	Low	20.07	34.8	PASS
Band12	10MHz	QPSK	23095	1	5	Low	20.07	34.8	PASS
Band12	10MHz	16QAM	23095	1	5	Low	19.90	34.8	PASS
Band12	10MHz	QPSK	23095	6	0	Low	20.07	34.8	PASS
Band12	10MHz	16QAM	23095	6	0	Low	20.07	34.8	PASS
Band12	10MHz	QPSK	23130	1	0	High	19.77	34.8	PASS
Band12	10MHz	16QAM	23130	1	0	High	19.76	34.8	PASS
Band12	10MHz	QPSK	23130	1	5	High	19.75	34.8	PASS
Band12	10MHz	16QAM	23130	1	5	High	19.75	34.8	PASS
Band12	10MHz	QPSK	23130	6	0	High	19.75	34.8	PASS
Band12	10MHz	16QAM	23130	6	0	High	19.75	34.8	PASS

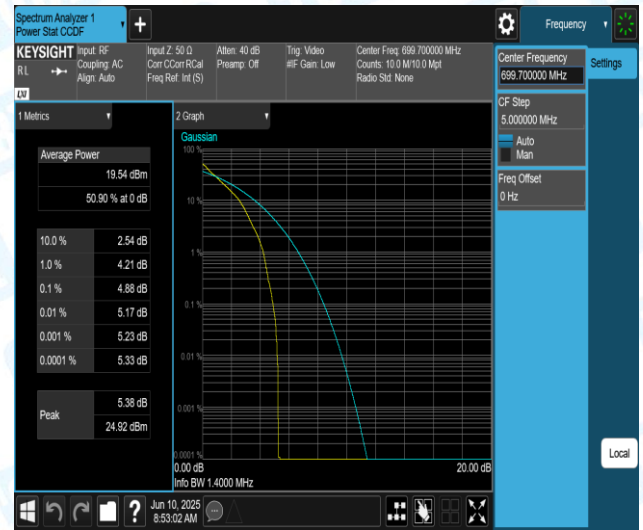
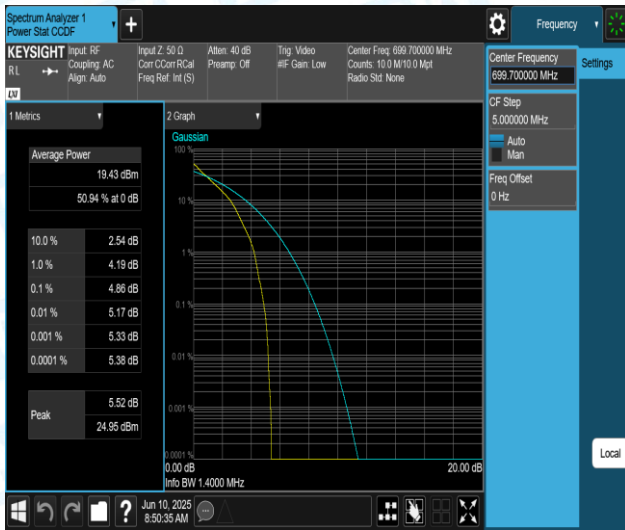
2: Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	4.86	<=13	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	4.88	<=13	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	4.89	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	4.88	<=13	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	4.66	<=13	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	4.67	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	4.68	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	4.67	<=13	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	4.83	<=13	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	4.81	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	4.82	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	4.82	<=13	PASS
Band12	3MHz	23025	QPSK	1	0	Low	4.72	<=13	PASS
Band12	3MHz	23025	16QAM	1	0	Low	4.70	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	4.69	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	4.72	<=13	PASS
Band12	3MHz	23095	QPSK	1	0	Low	4.64	<=13	PASS
Band12	3MHz	23095	16QAM	1	0	Low	4.66	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	4.66	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	4.66	<=13	PASS
Band12	3MHz	23165	QPSK	1	0	High	4.69	<=13	PASS
Band12	3MHz	23165	16QAM	1	0	High	4.71	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	4.68	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	4.69	<=13	PASS
Band12	5MHz	23035	QPSK	1	0	Low	4.45	<=13	PASS
Band12	5MHz	23035	16QAM	1	0	Low	4.42	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	4.43	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	4.43	<=13	PASS
Band12	5MHz	23095	QPSK	1	0	Low	4.34	<=13	PASS
Band12	5MHz	23095	16QAM	1	0	Low	4.34	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	4.33	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	4.34	<=13	PASS
Band12	5MHz	23155	QPSK	1	0	High	4.59	<=13	PASS
Band12	5MHz	23155	16QAM	1	0	High	4.58	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	4.58	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	4.60	<=13	PASS
Band12	10MHz	23060	QPSK	1	0	Low	4.39	<=13	PASS
Band12	10MHz	23060	16QAM	1	0	Low	4.43	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	Low	4.43	<=13	PASS

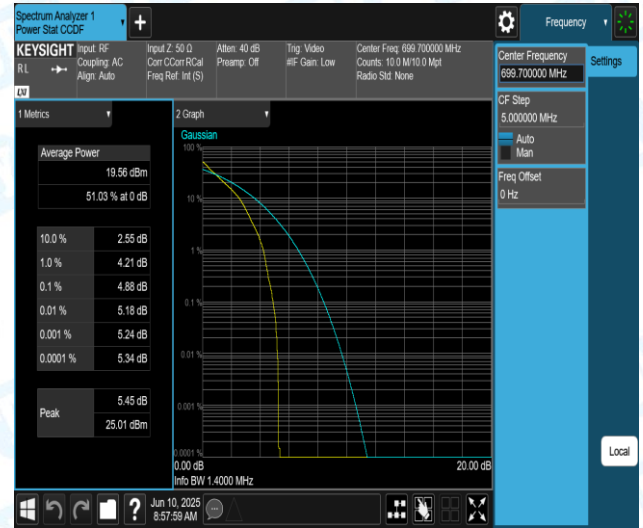
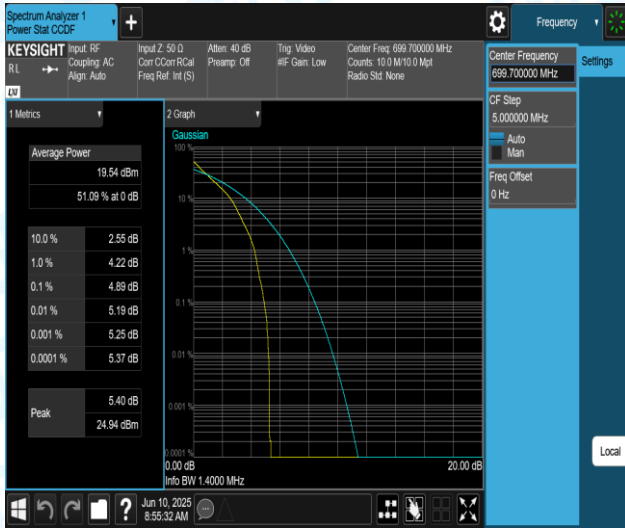
Band12	10MHz	23060	16QAM	6	0	Low	4.40	<=13	PASS
Band12	10MHz	23095	QPSK	1	0	Low	4.32	<=13	PASS
Band12	10MHz	23095	16QAM	1	0	Low	4.31	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	4.34	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Low	4.33	<=13	PASS
Band12	10MHz	23130	QPSK	1	0	High	4.46	<=13	PASS
Band12	10MHz	23130	16QAM	1	0	High	4.53	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	4.47	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	4.53	<=13	PASS

Test Graphs



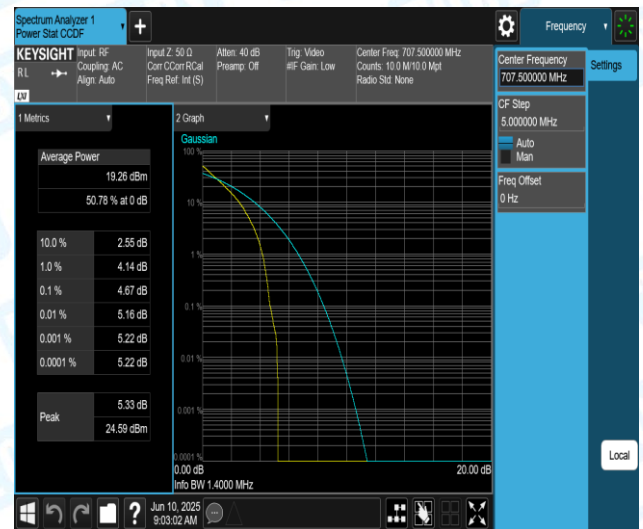
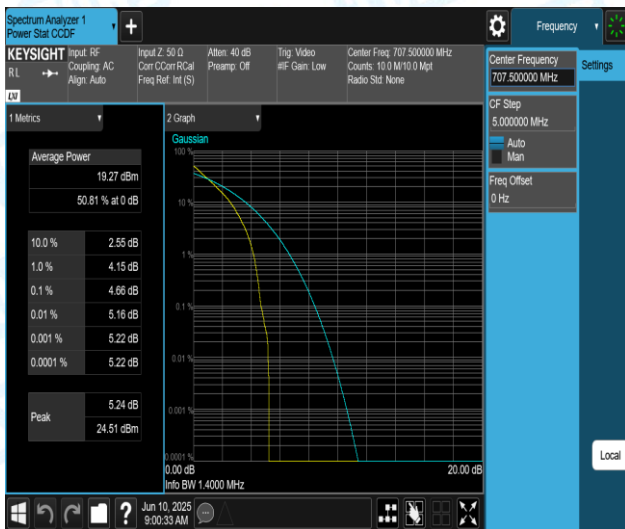
Band 12 - 1.4 MHz - QPSK - 23017 - PASS

Band 12 - 1.4 MHz - 16QAM - 23017 - PASS



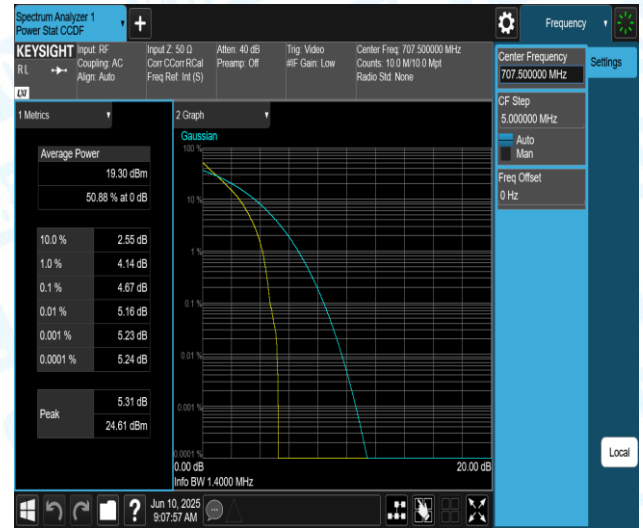
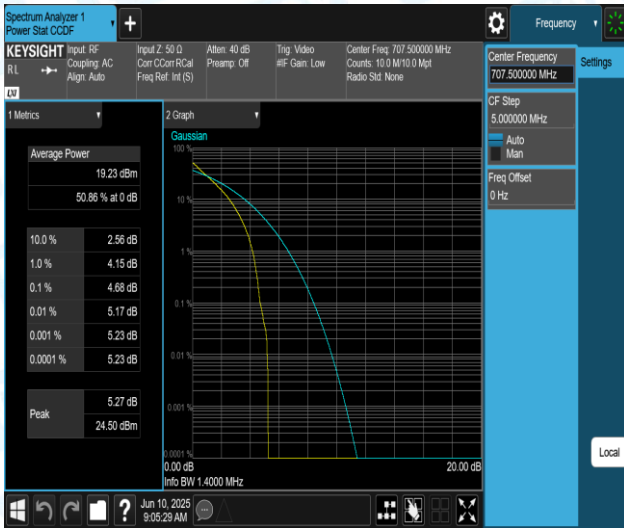
Band 12 - 1.4 MHz - QPSK - 23017 - PASS

Band 12 - 1.4 MHz - 16QAM - 23017 - PASS



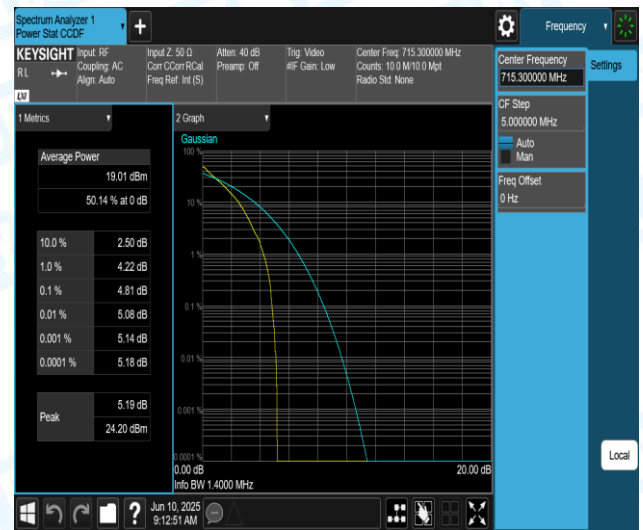
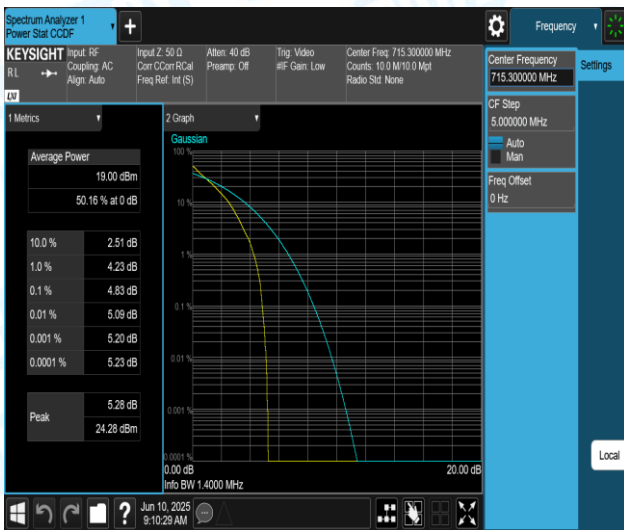
Band 12 - 1.4 MHz - QPSK - 23095 - PASS

Band 12 - 1.4 MHz - 16QAM - 23095 - PASS



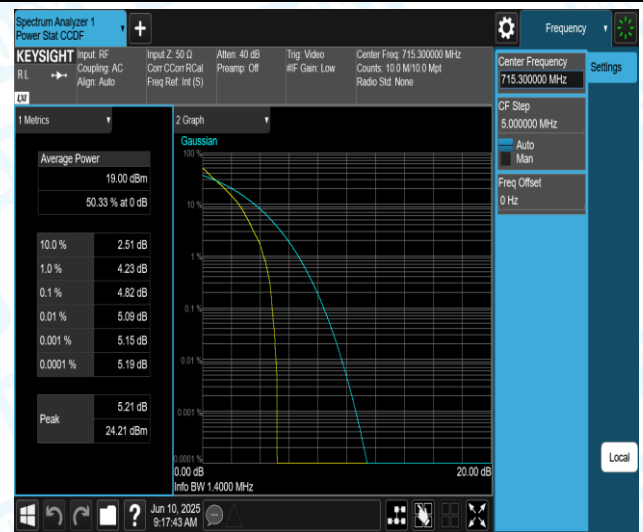
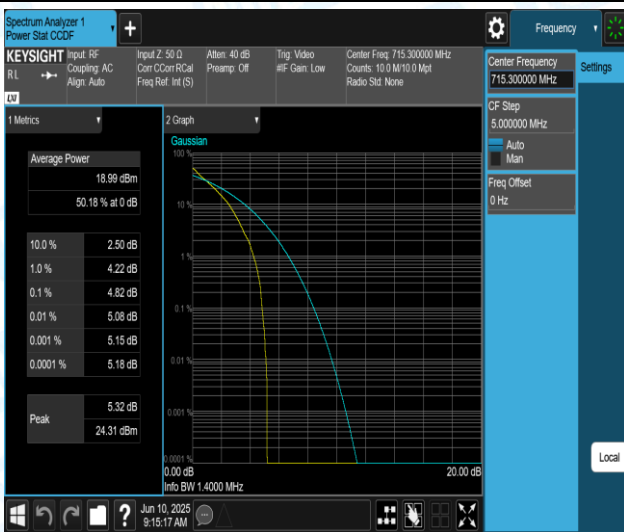
Band 12 - 1.4 MHz - QPSK - 23095 - PASS

Band 12 - 1.4 MHz - 16QAM - 23095 - PASS



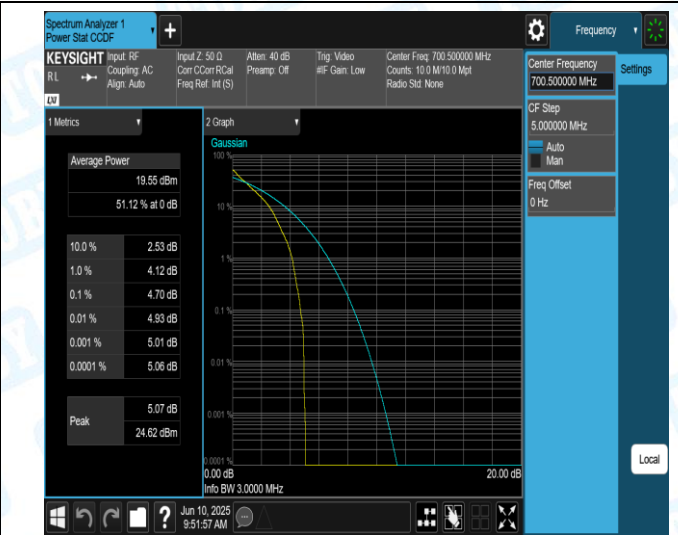
Band 12 - 1.4 MHz - QPSK - 23173 - PASS

Band 12 - 1.4 MHz - 16QAM - 23173 - PASS



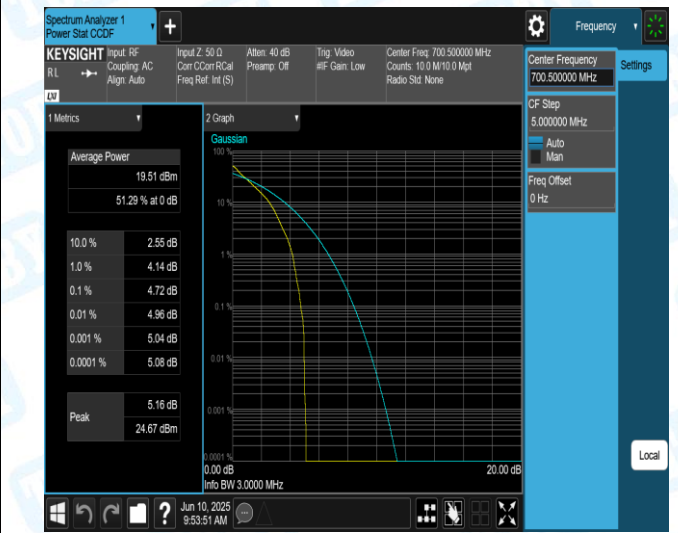
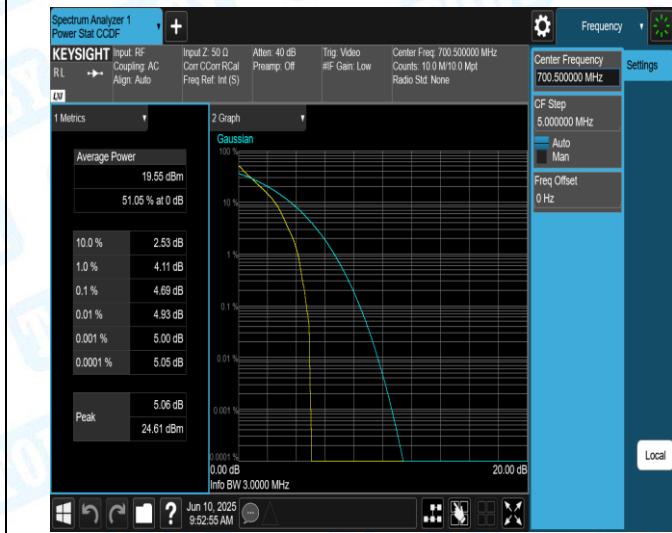
Band 12 - 1.4 MHz - QPSK - 23173 - PASS

Band 12 - 1.4 MHz - 16QAM - 23173 - PASS



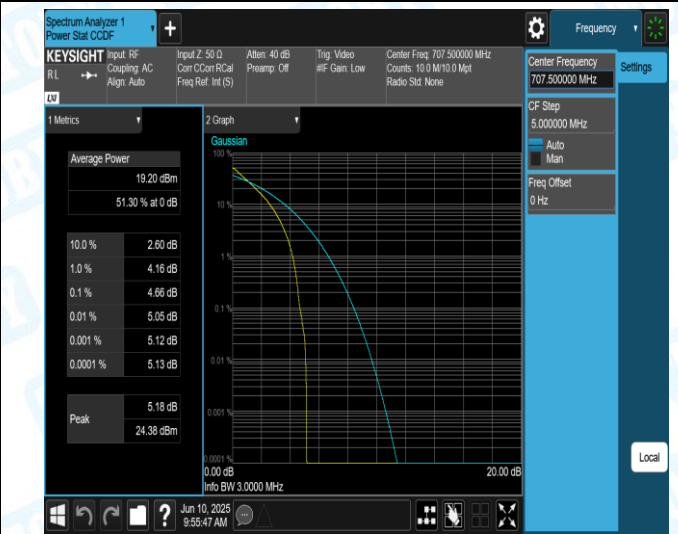
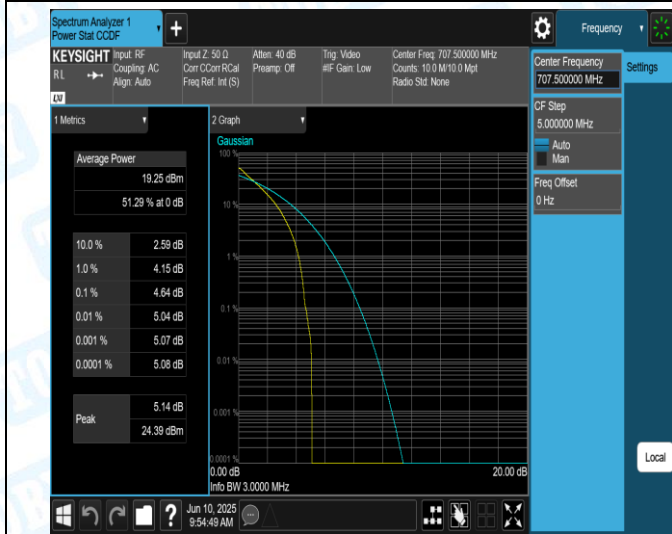
Band 12-3 MHz - QPSK - 23025-PASS

Band 12-3 MHz - 16QAM - 23025-PASS



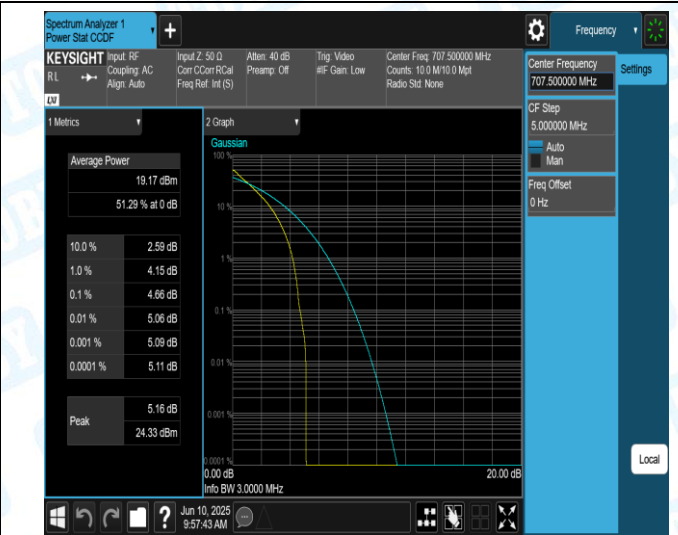
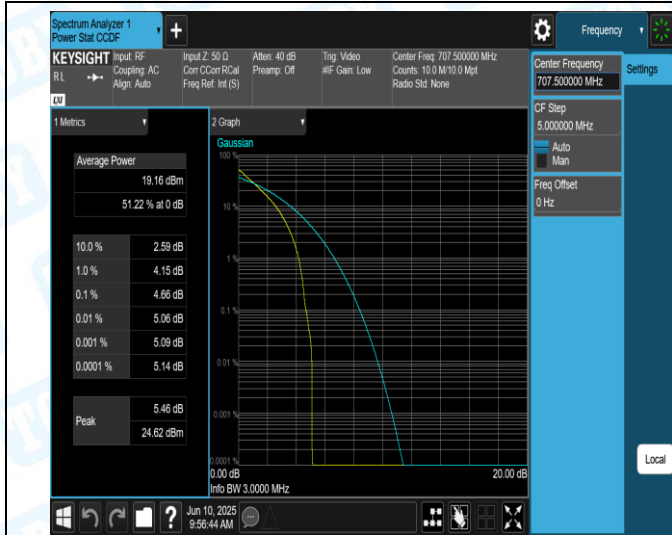
Band 12-3 MHz - QPSK - 23025-PASS

Band 12-3 MHz - 16QAM - 23025-PASS



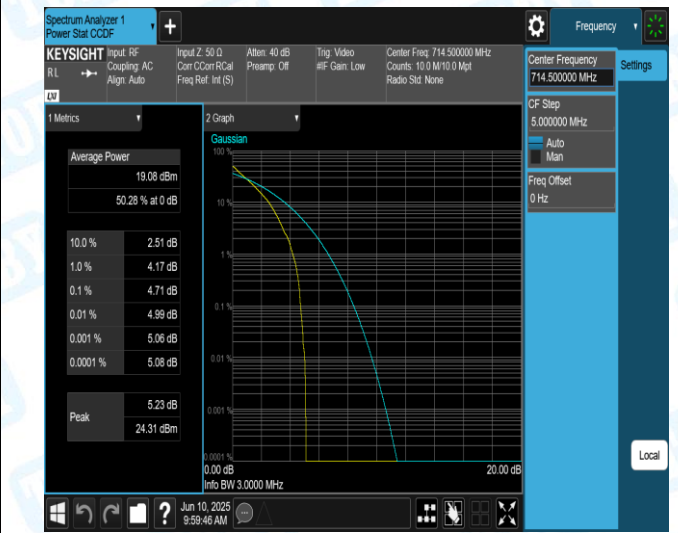
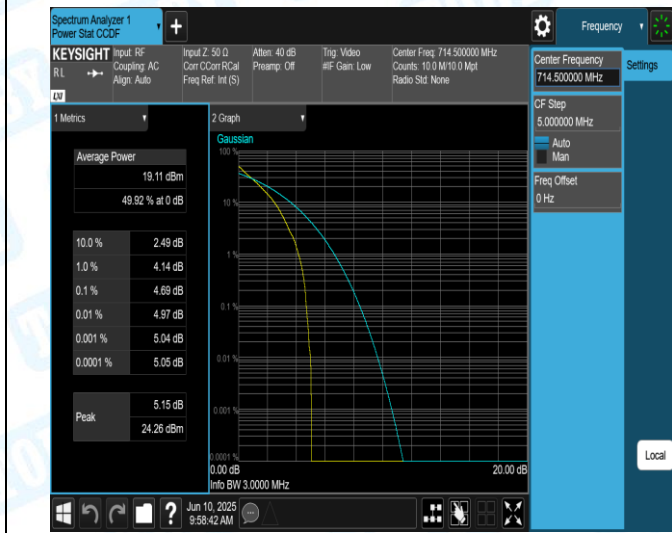
Band 12-3 MHz - QPSK - 23095-PASS

Band 12-3 MHz - 16QAM - 23095-PASS



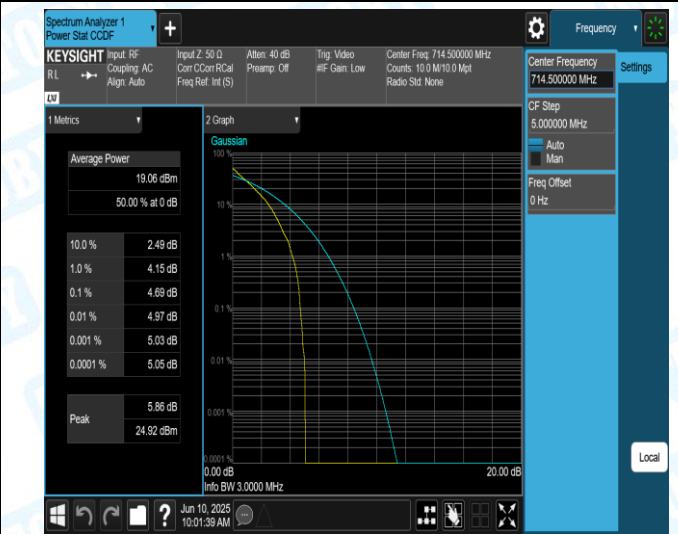
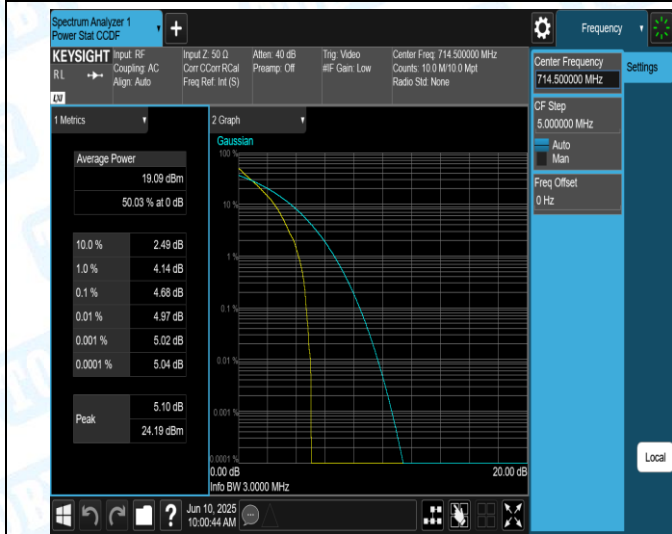
Band 12-3 MHz - QPSK - 23095 - PASS

Band 12-3 MHz - 16QAM - 23095 - PASS



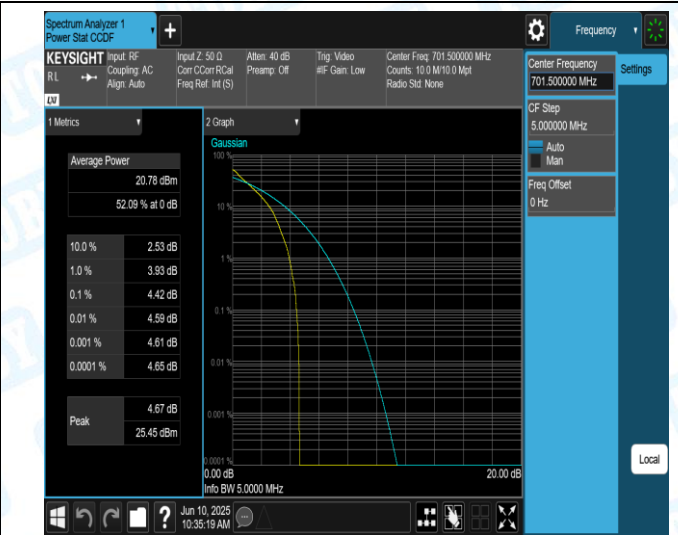
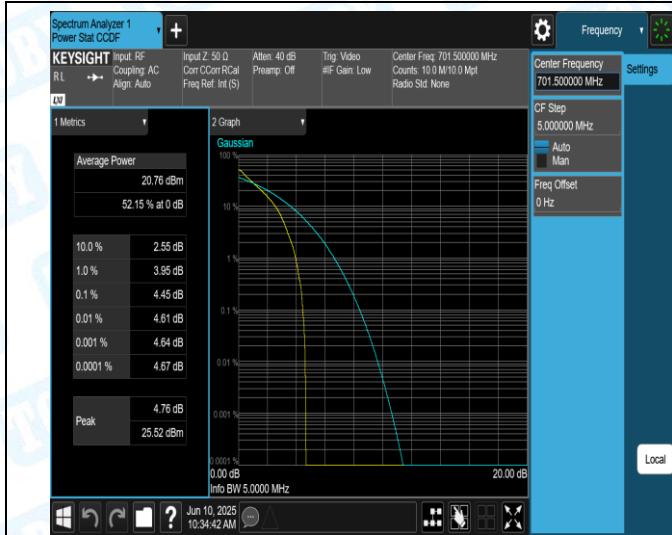
Band 12-3 MHz - QPSK - 23165 - PASS

Band 12-3 MHz - 16QAM - 23165 - PASS



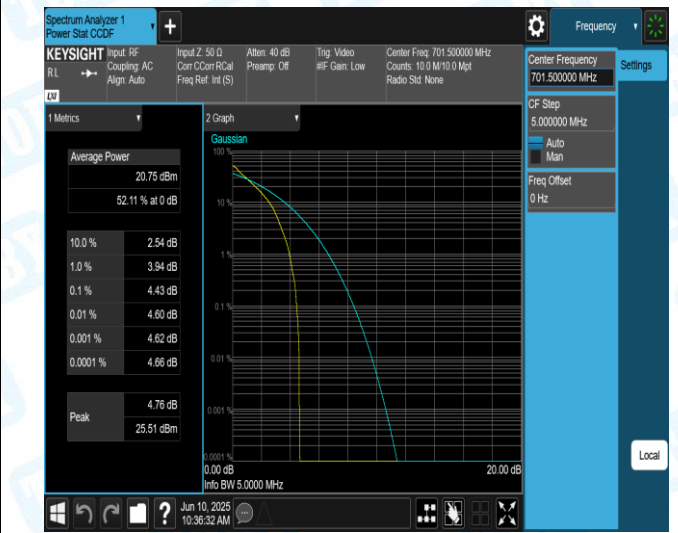
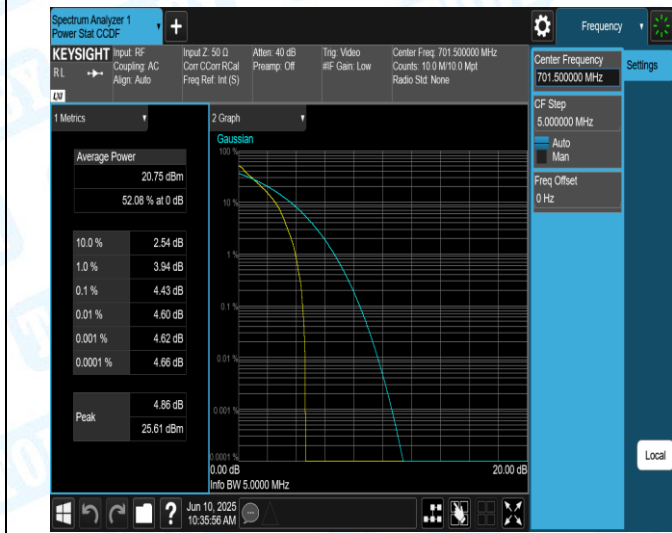
Band 12-3 MHz - QPSK - 23165 - PASS

Band 12-3 MHz - 16QAM - 23165 - PASS



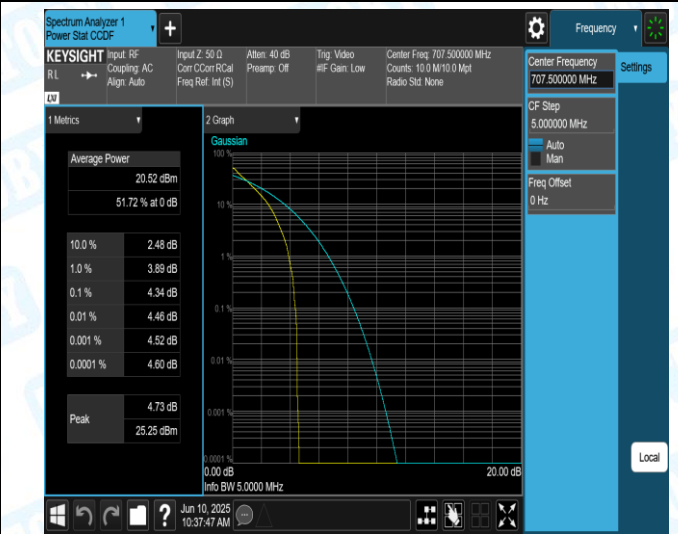
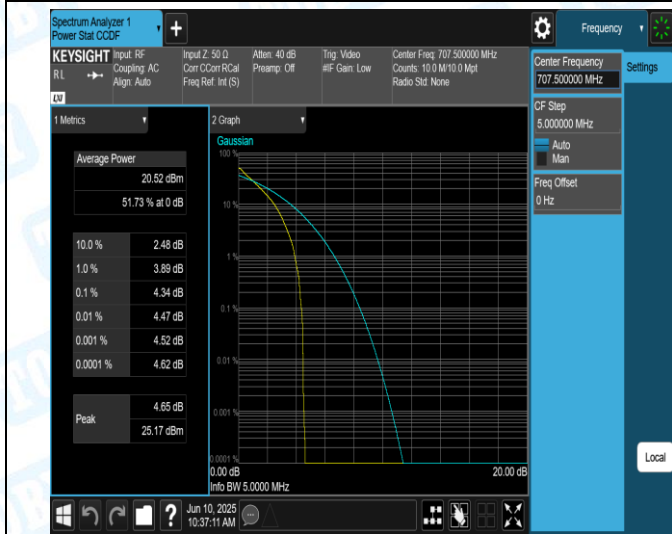
Band 12-5 MHz - QPSK - 23035 - PASS

Band 12-5 MHz - 16QAM - 23035 - PASS



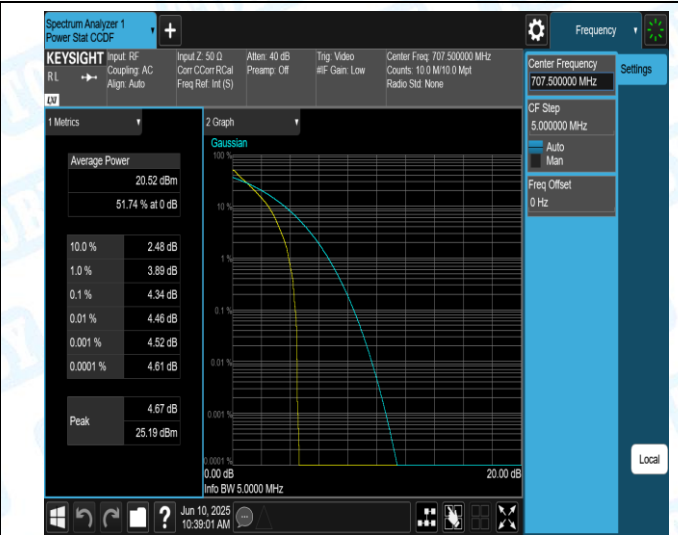
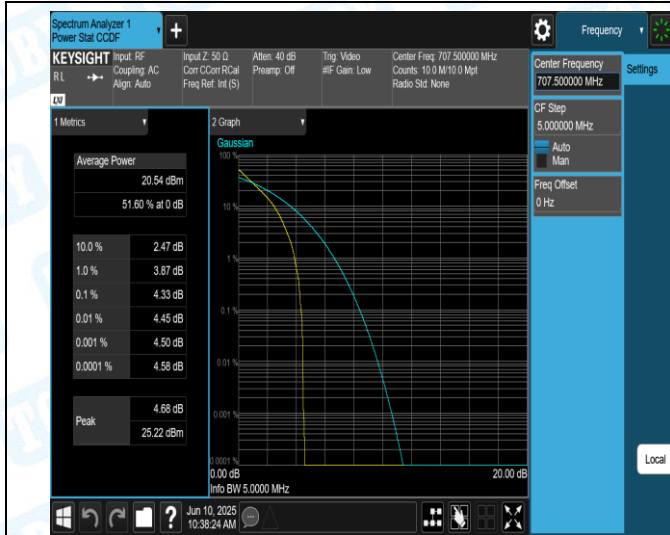
Band 12-5 MHz - QPSK - 23035 - PASS

Band 12-5 MHz - 16QAM - 23035 - PASS



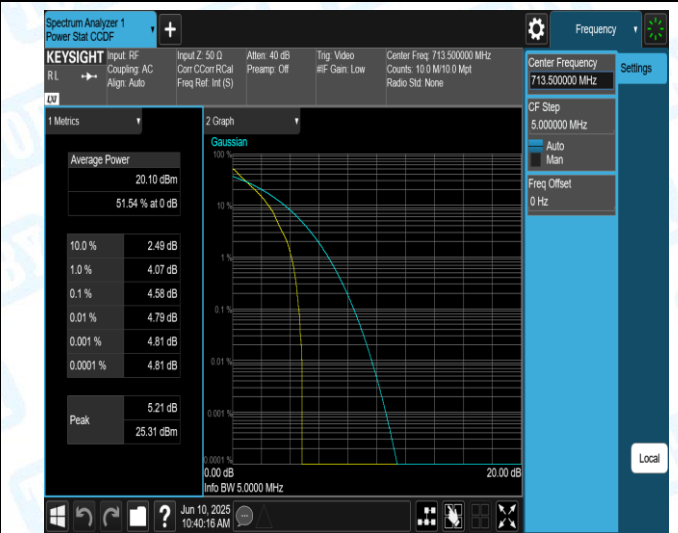
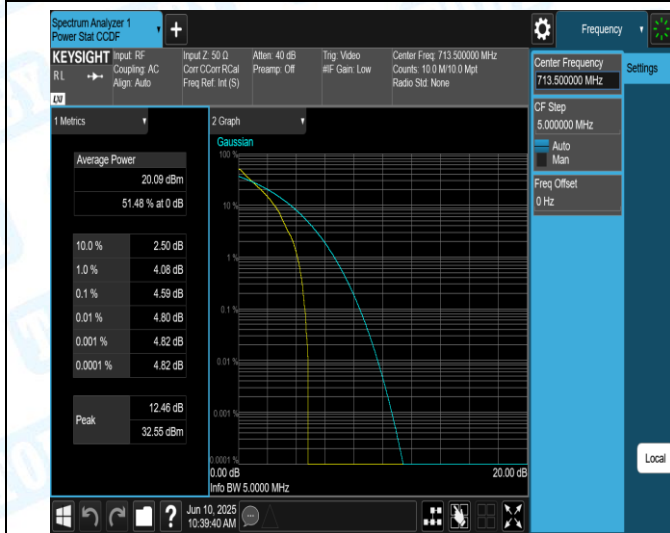
Band 12-5 MHz - QPSK - 23095 - PASS

Band 12-5 MHz - 16QAM - 23095 - PASS



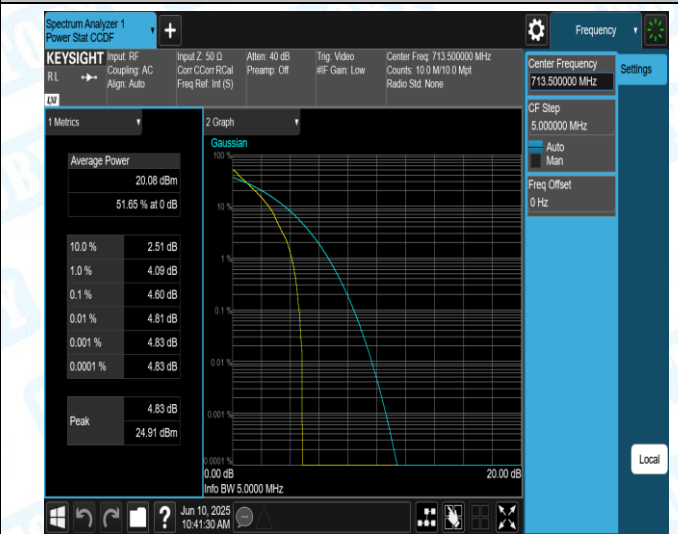
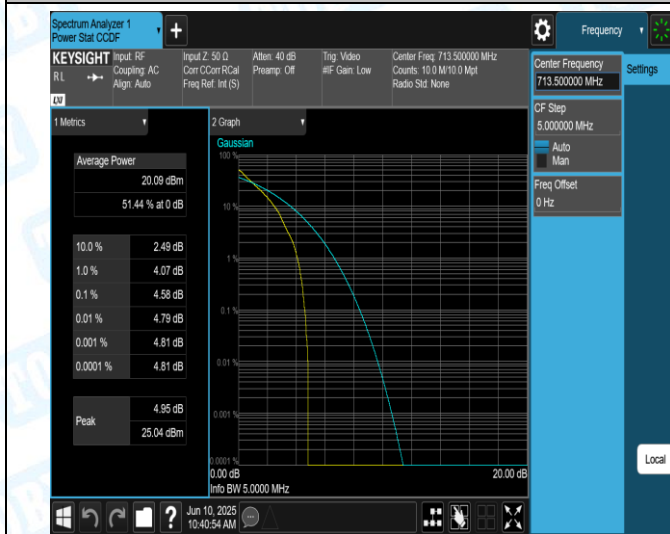
Band 12 - 5 MHz - QPSK - 23095 - PASS

Band 12 - 5 MHz - 16QAM - 23095 - PASS



Band 12 - 5 MHz - QPSK - 23155 - PASS

Band 12 - 5 MHz - 16QAM - 23155 - PASS



Band 12 - 5 MHz - QPSK - 23155 - PASS

Band 12 - 5 MHz - 16QAM - 23155 - PASS