



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





BAND EDGE

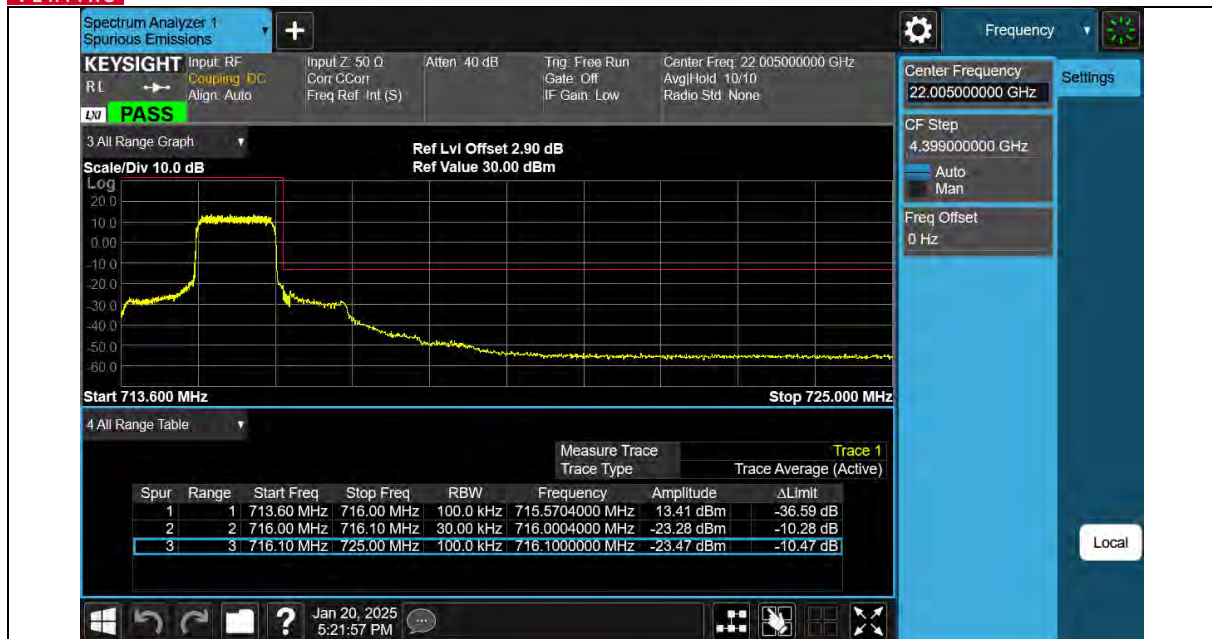
Test Result

NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

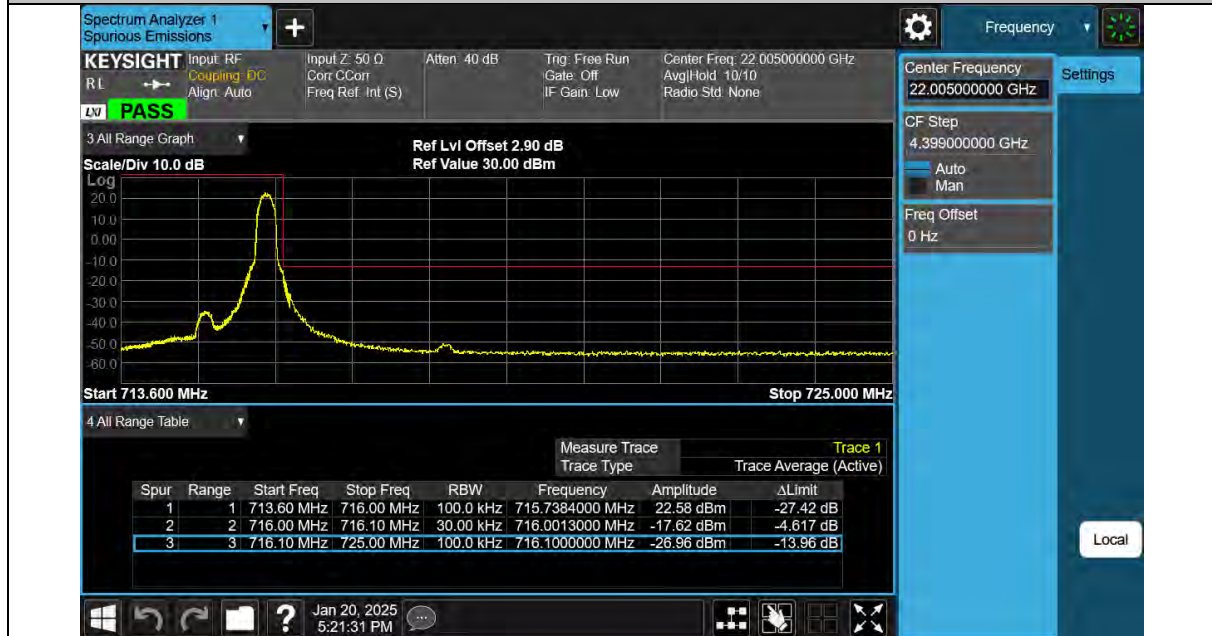
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-18.78	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-23.43	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-23.28	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-17.62	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-19.74	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-24.36	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-24.58	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-19.33	PASS
Band12	3MHz	QPSK	23025	1RB#0	-21.25	PASS
Band12	3MHz	QPSK	23025	15RB#0	-26.65	PASS
Band12	3MHz	QPSK	23165	15RB#0	-25.17	PASS
Band12	3MHz	QPSK	23165	1RB#14	-19.66	PASS
Band12	3MHz	16QAM	23025	1RB#0	-22.94	PASS
Band12	3MHz	16QAM	23025	15RB#0	-27.73	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.10	PASS
Band12	3MHz	16QAM	23165	1RB#14	-21.49	PASS
Band12	5MHz	QPSK	23035	1RB#0	-26.17	PASS
Band12	5MHz	QPSK	23035	25RB#0	-29.92	PASS
Band12	5MHz	QPSK	23155	25RB#0	-27.59	PASS
Band12	5MHz	QPSK	23155	1RB#24	-26.02	PASS
Band12	5MHz	16QAM	23035	1RB#0	-27.81	PASS
Band12	5MHz	16QAM	23035	25RB#0	-30.33	PASS
Band12	5MHz	16QAM	23155	25RB#0	-28.74	PASS
Band12	5MHz	16QAM	23155	1RB#24	-26.39	PASS
Band12	10MHz	QPSK	23060	1RB#0	-38.64	PASS
Band12	10MHz	QPSK	23060	50RB#0	-33.40	PASS
Band12	10MHz	QPSK	23130	50RB#0	-30.94	PASS
Band12	10MHz	QPSK	23130	1RB#49	-38.54	PASS
Band12	10MHz	16QAM	23060	1RB#0	-39.06	PASS
Band12	10MHz	16QAM	23060	50RB#0	-34.75	PASS
Band12	10MHz	16QAM	23130	50RB#0	-32.21	PASS
Band12	10MHz	16QAM	23130	1RB#49	-38.77	PASS

Test Graphs

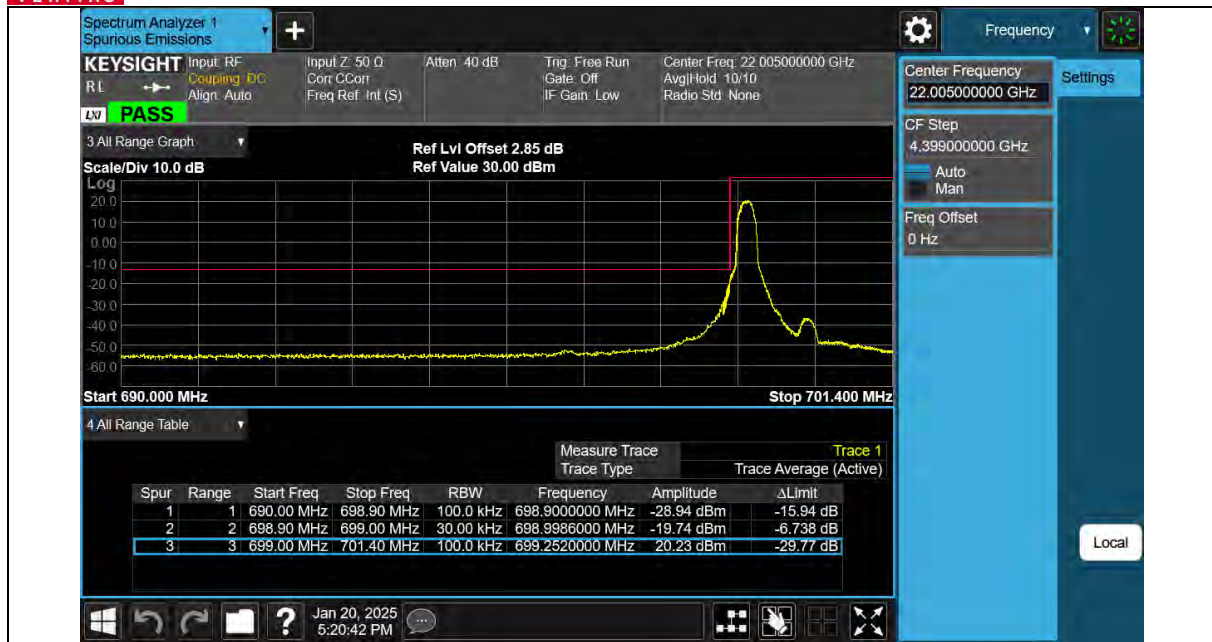




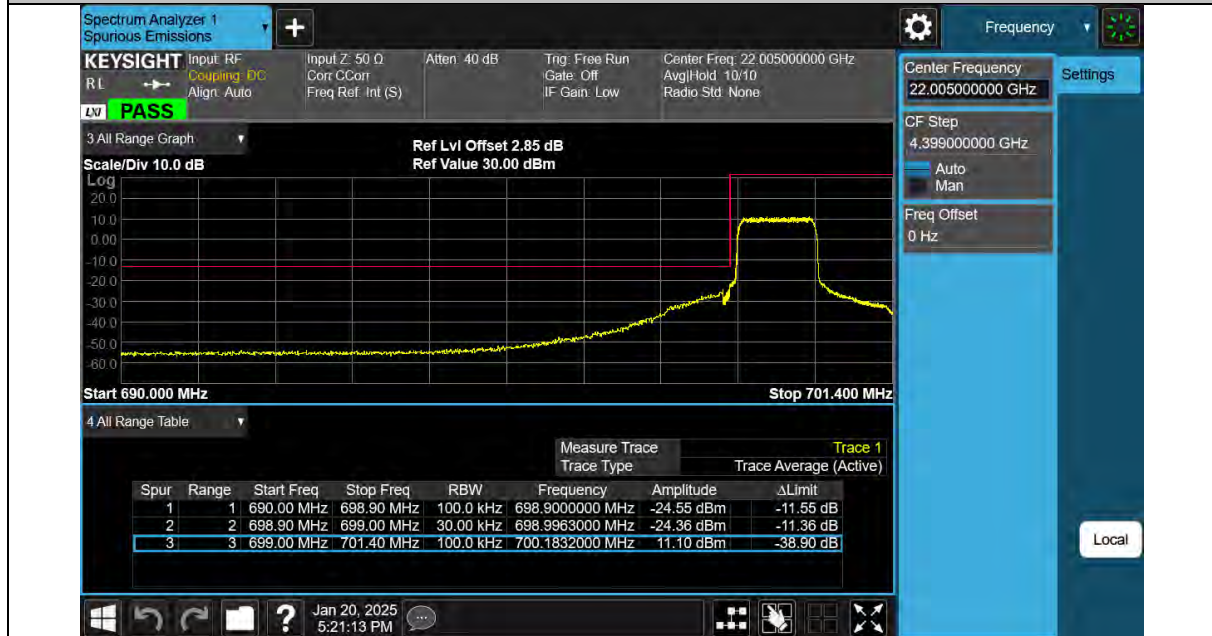
Band12-1.4MHz-QPSK-23173-1RB#5-PASS



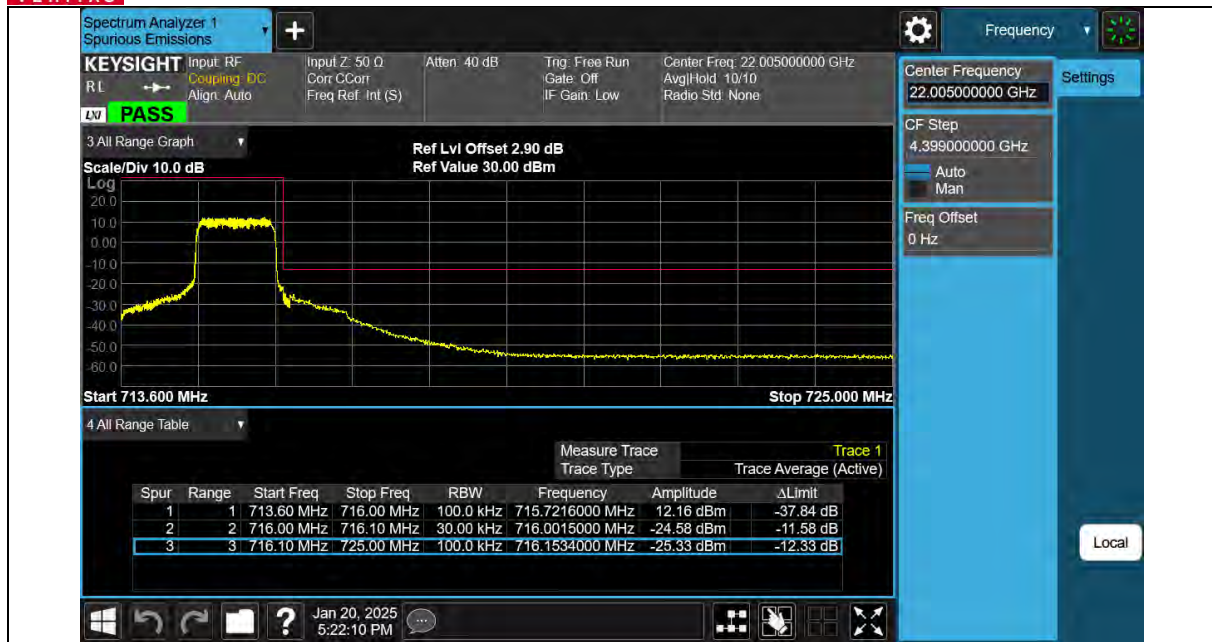
Band12-1.4MHz-16QAM-23017-1RB#0-PASS



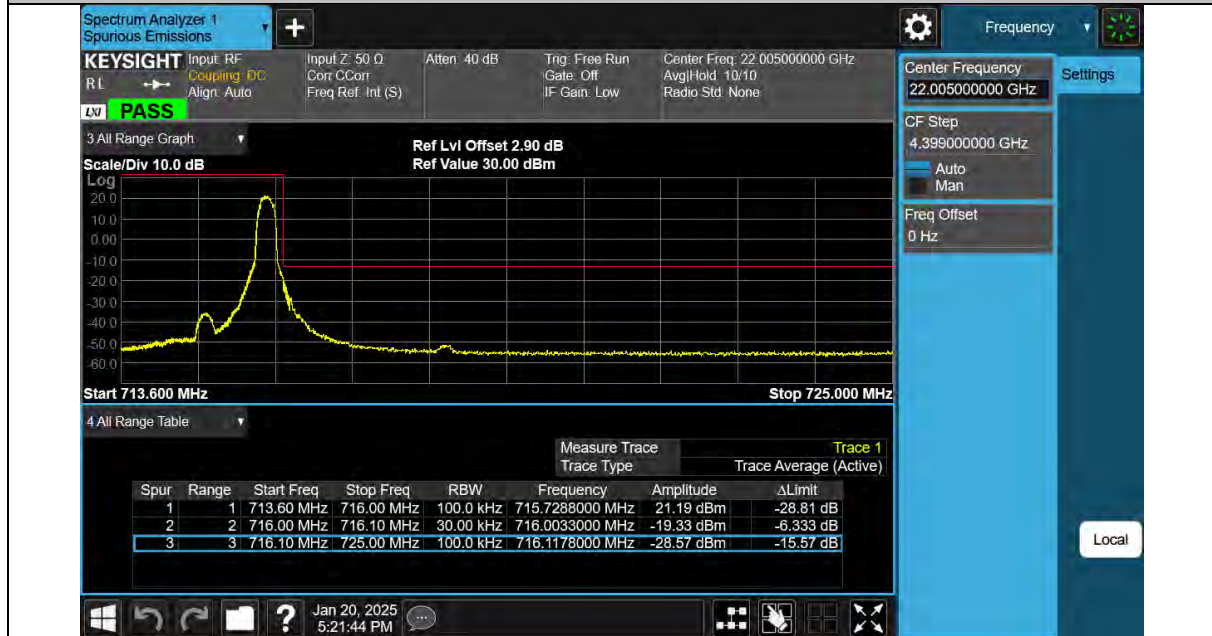
Band12-1.4MHz-16QAM-23017-6RB#0-PASS



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



Band12-1.4MHz-16QAM-23173-1RB#5-PASS

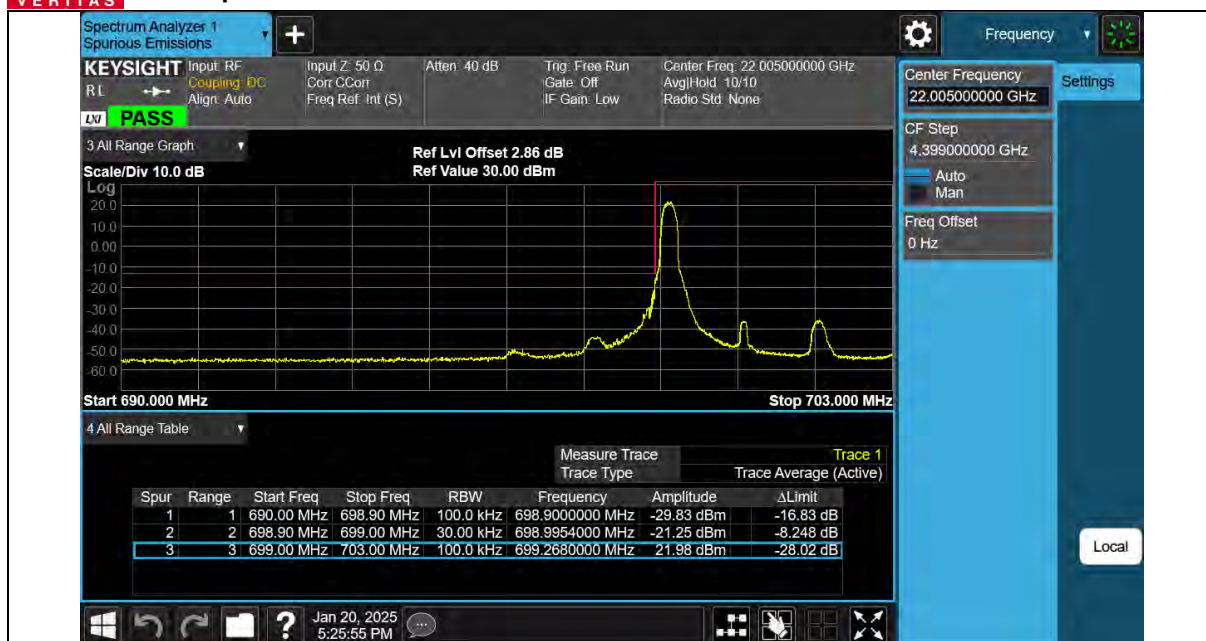


Band12-3MHz-QPSK-23025-1RB#0-PASS

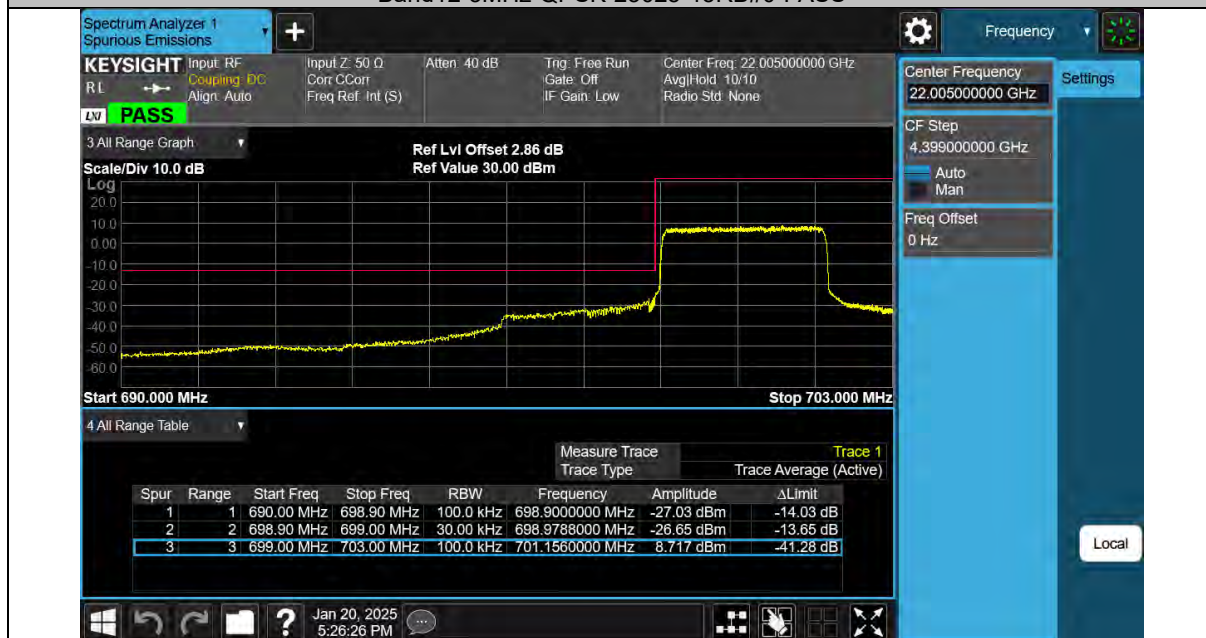


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Band12-3MHz-QPSK-23025-15RB#0-PASS

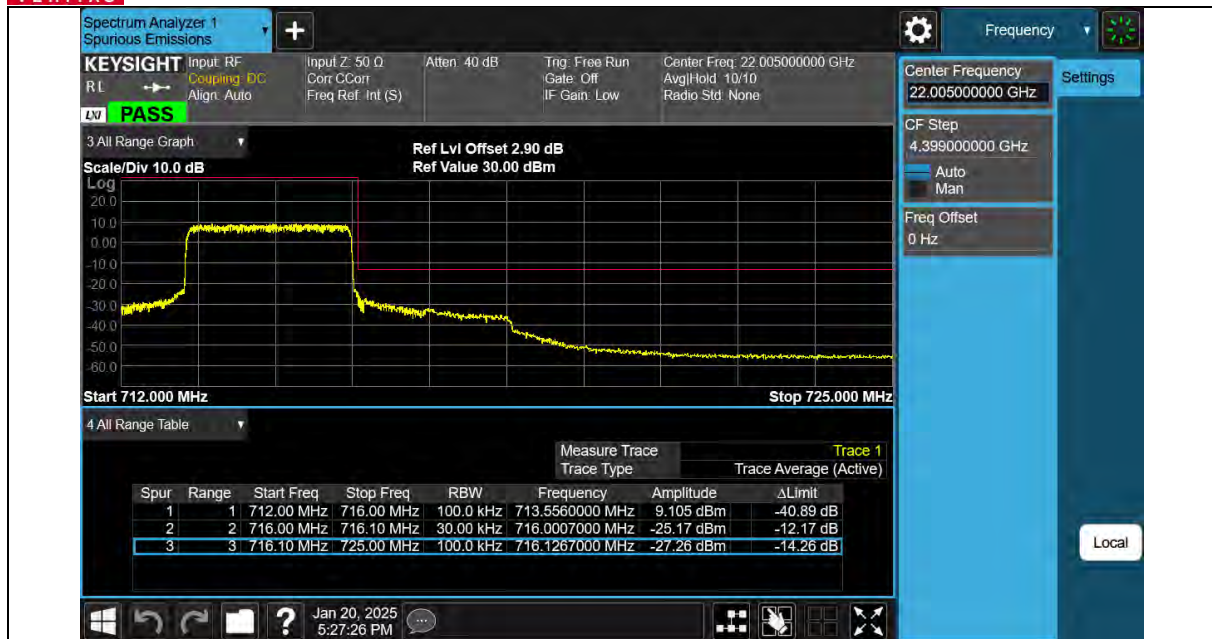


Band12-3MHz-QPSK-23165-15RB#0-PASS

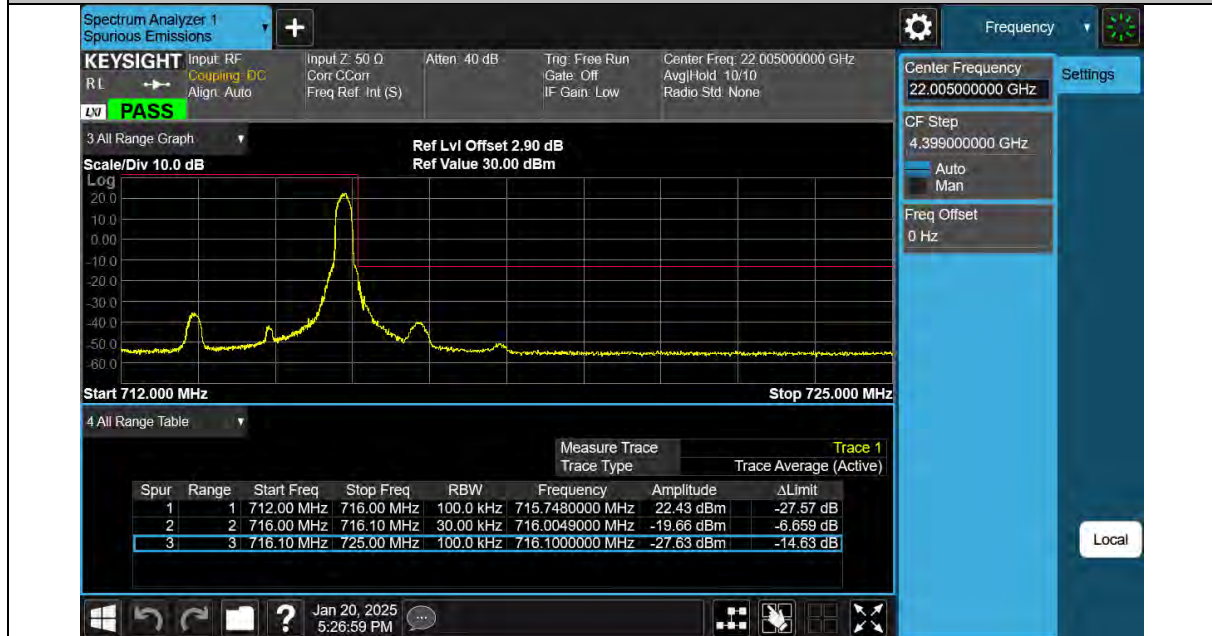


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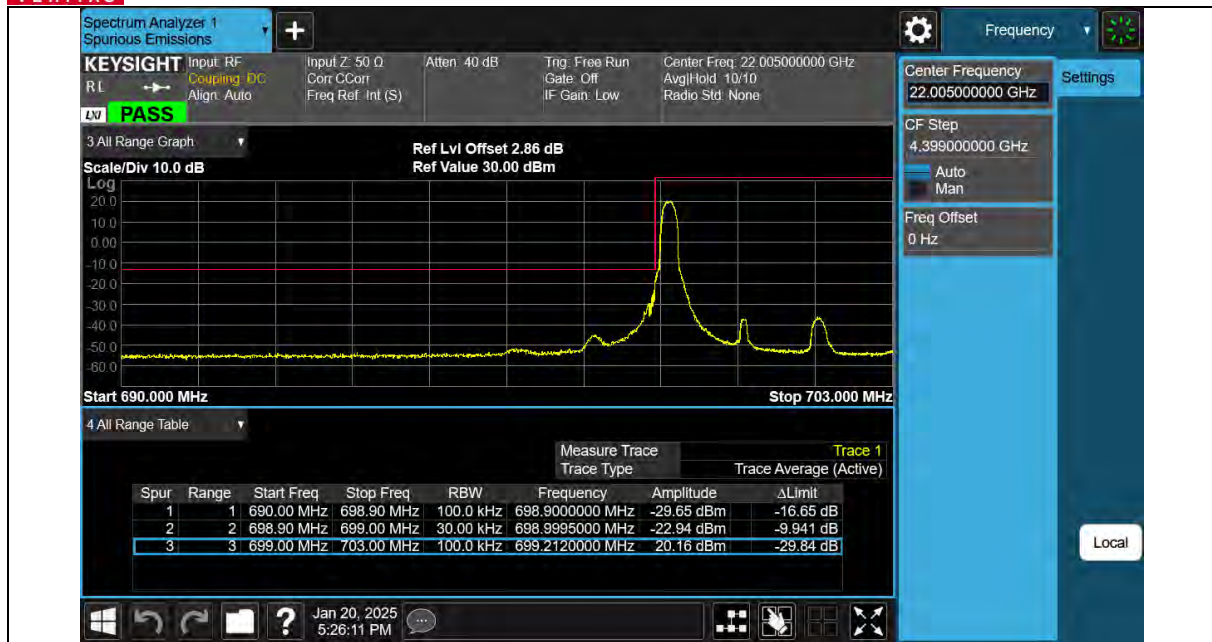
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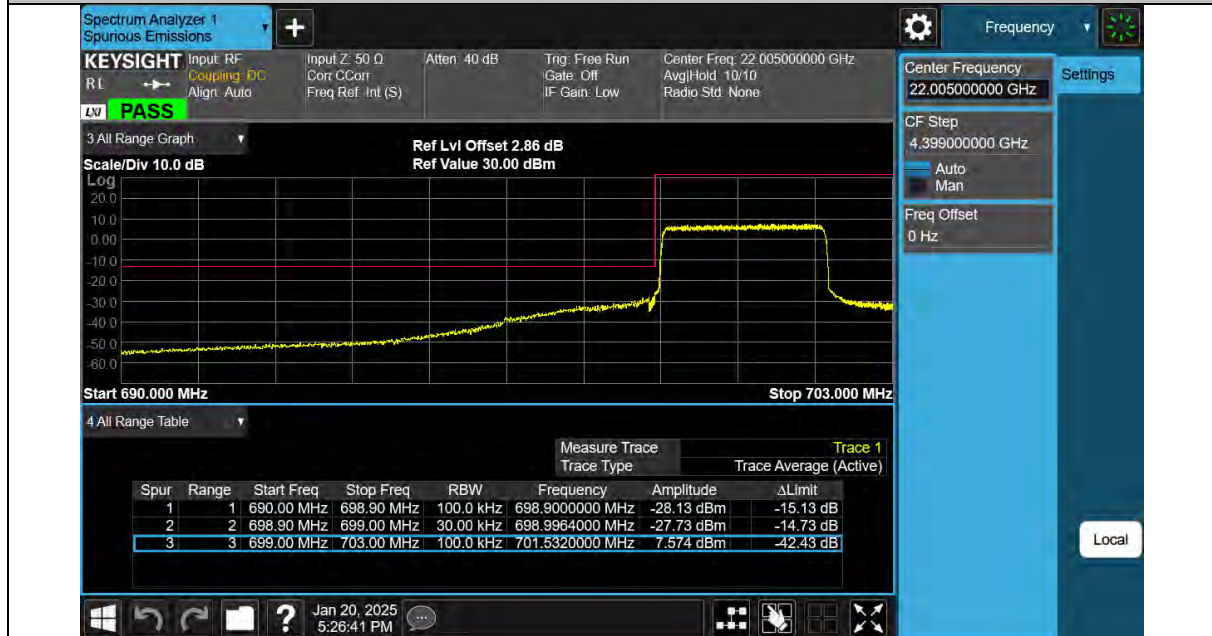
Band12-3MHz-QPSK-23165-1RB#14-PASS



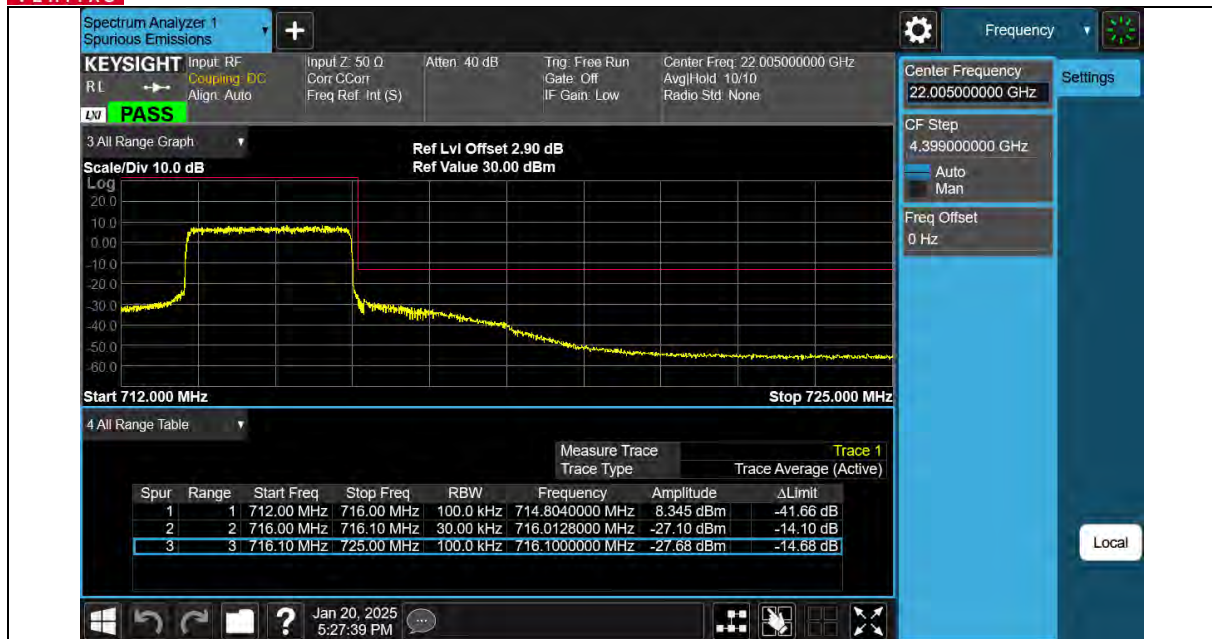
Band12-3MHz-16QAM-23025-1RB#0-PASS



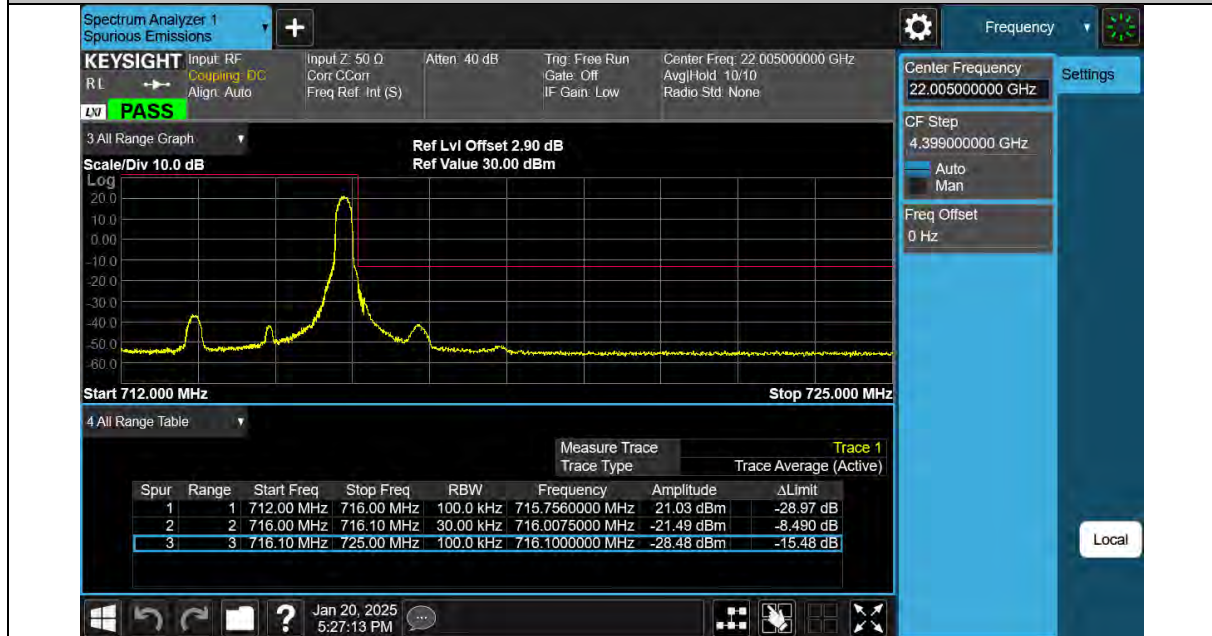
Band12-3MHz-16QAM-23025-15RB#0-PASS



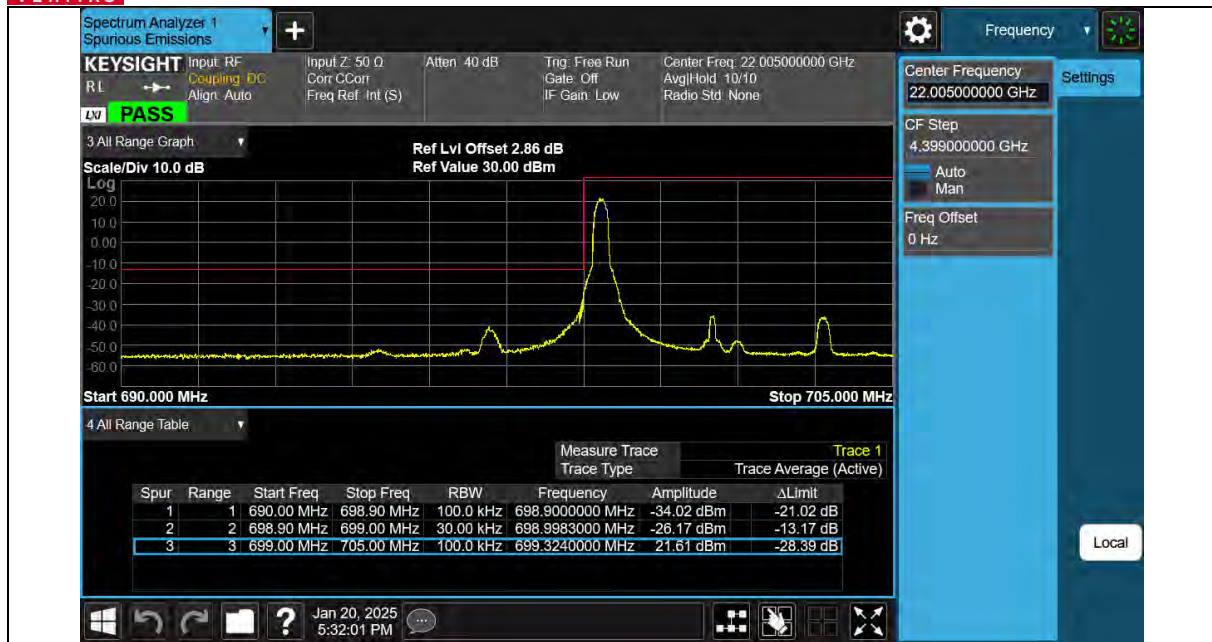
Band12-3MHz-16QAM-23165-15RB#0-PASS



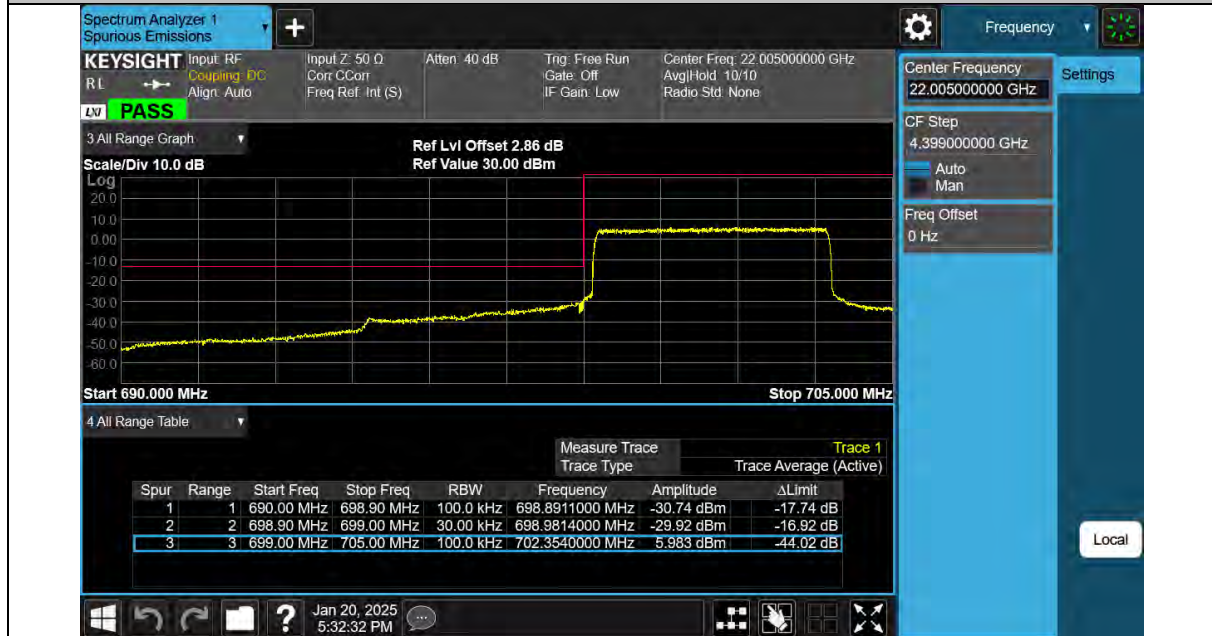
Band12-3MHz-16QAM-23165-1RB#14-PASS



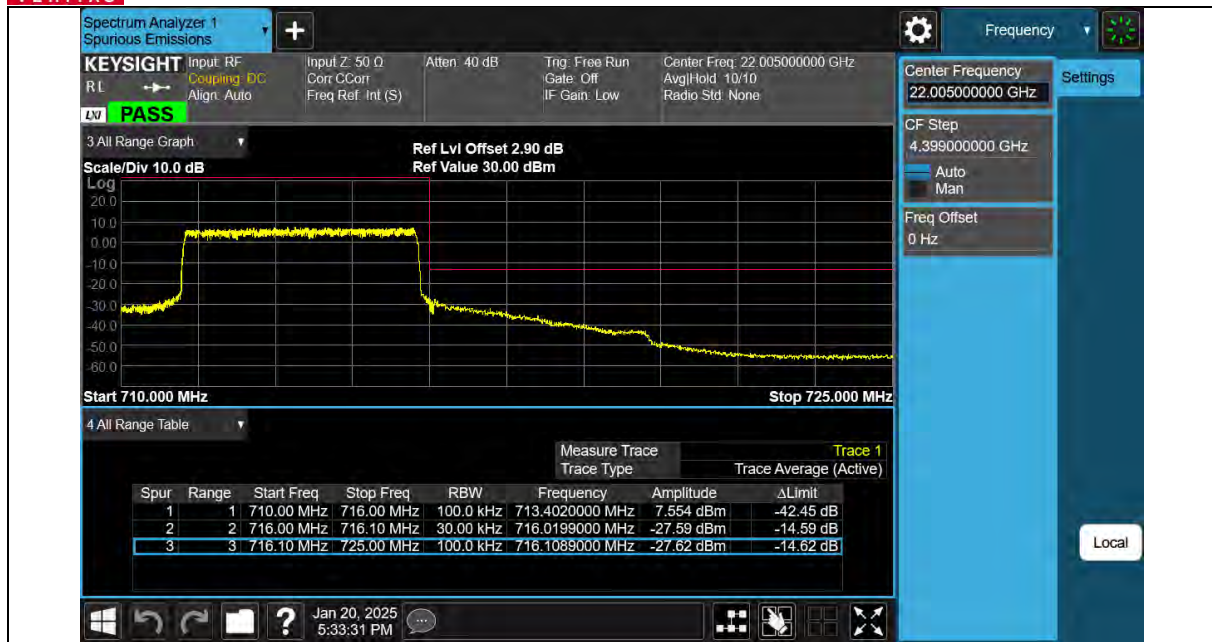
Band12-5MHz-QPSK-23035-1RB#0-PASS



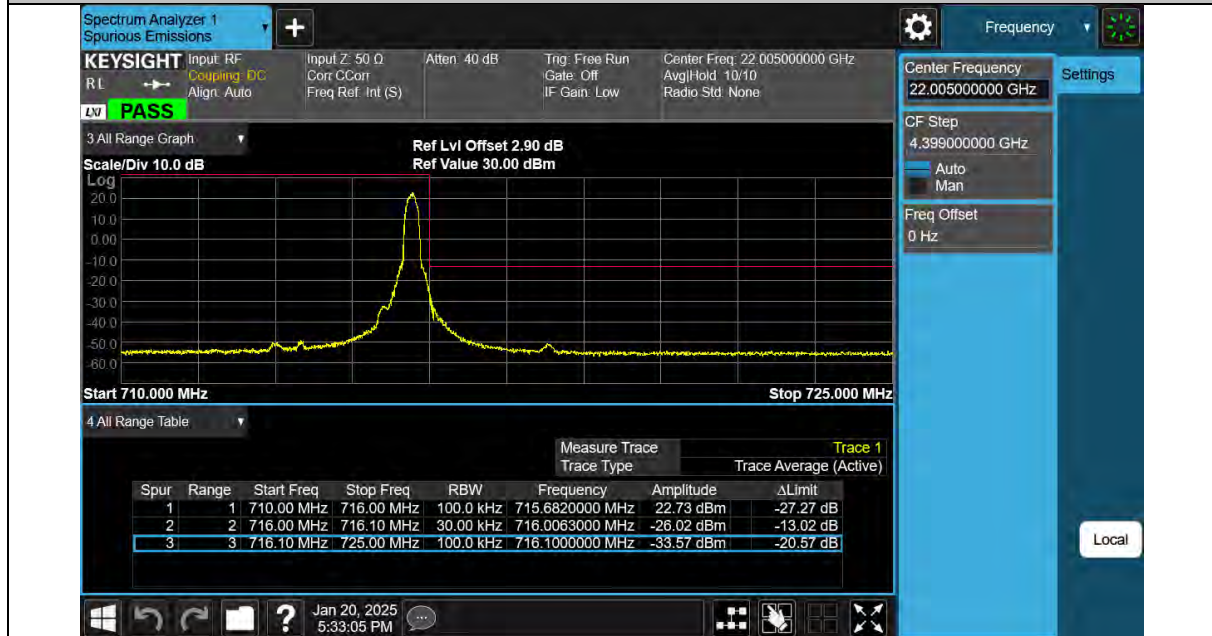
Band12-5MHz-QPSK-23035-25RB#0-PASS



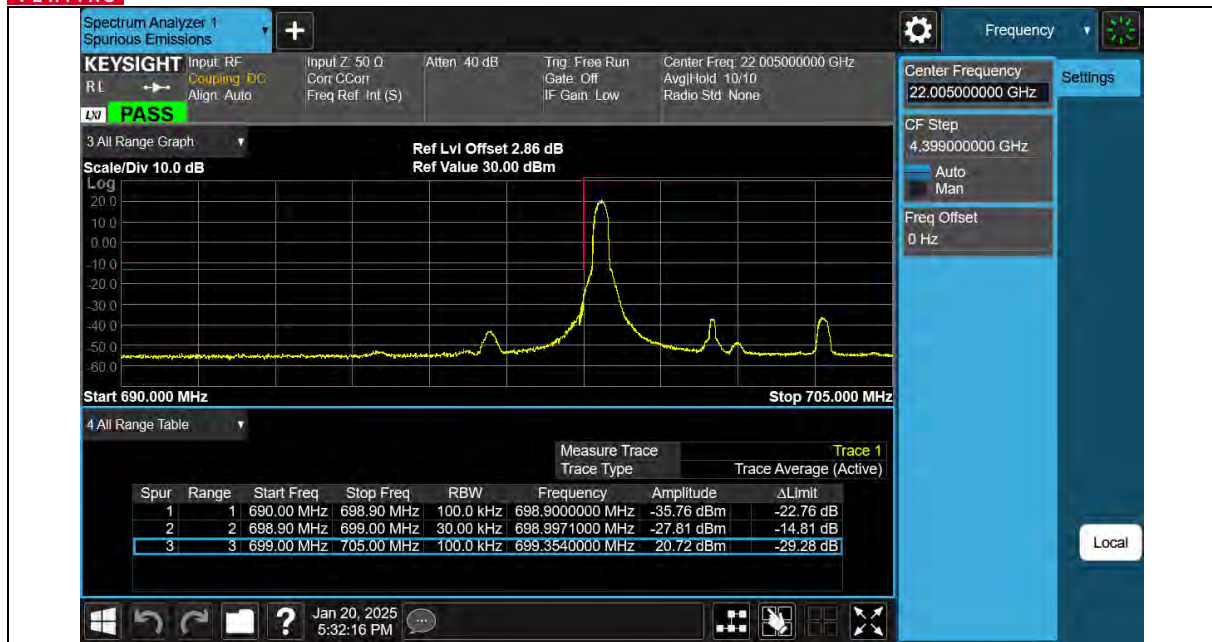
Band12-5MHz-QPSK-23155-25RB#0-PASS



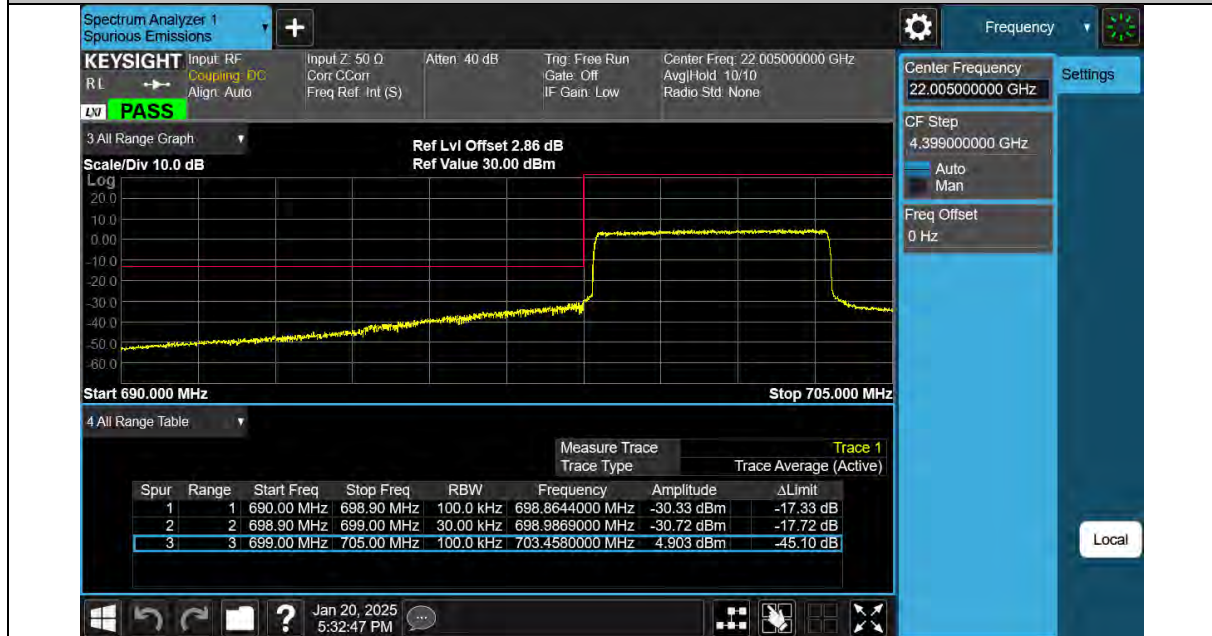
Band12-5MHz-QPSK-23155-1RB#24-PASS



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



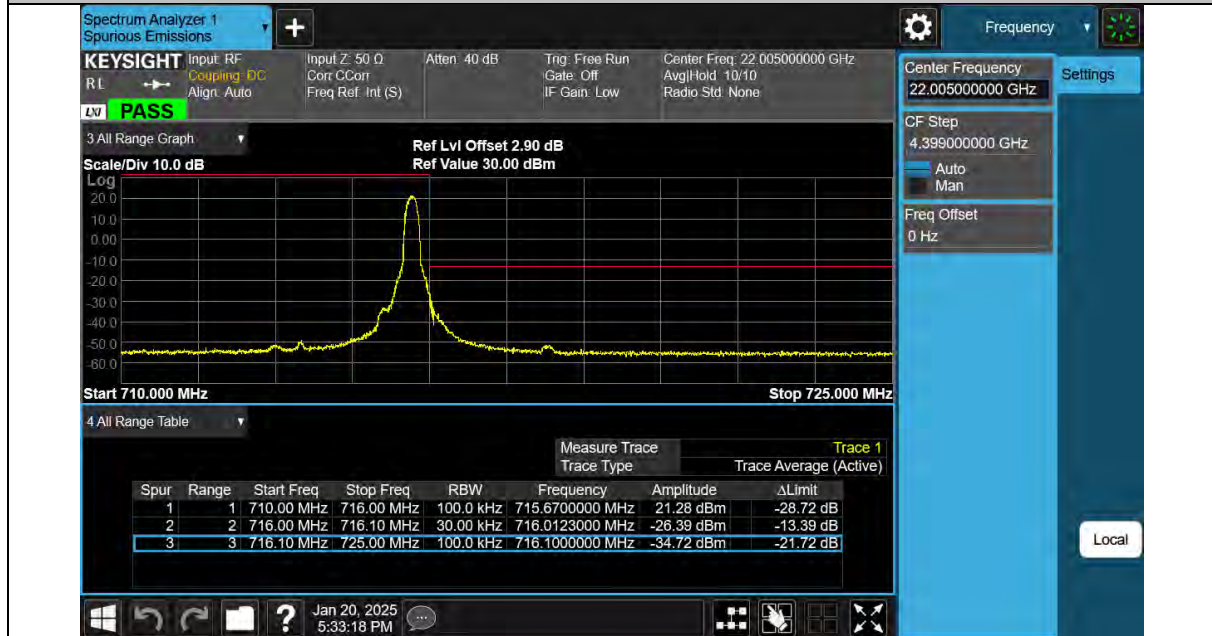
Band12-5MHz-16QAM-23035-25RB#0-PASS



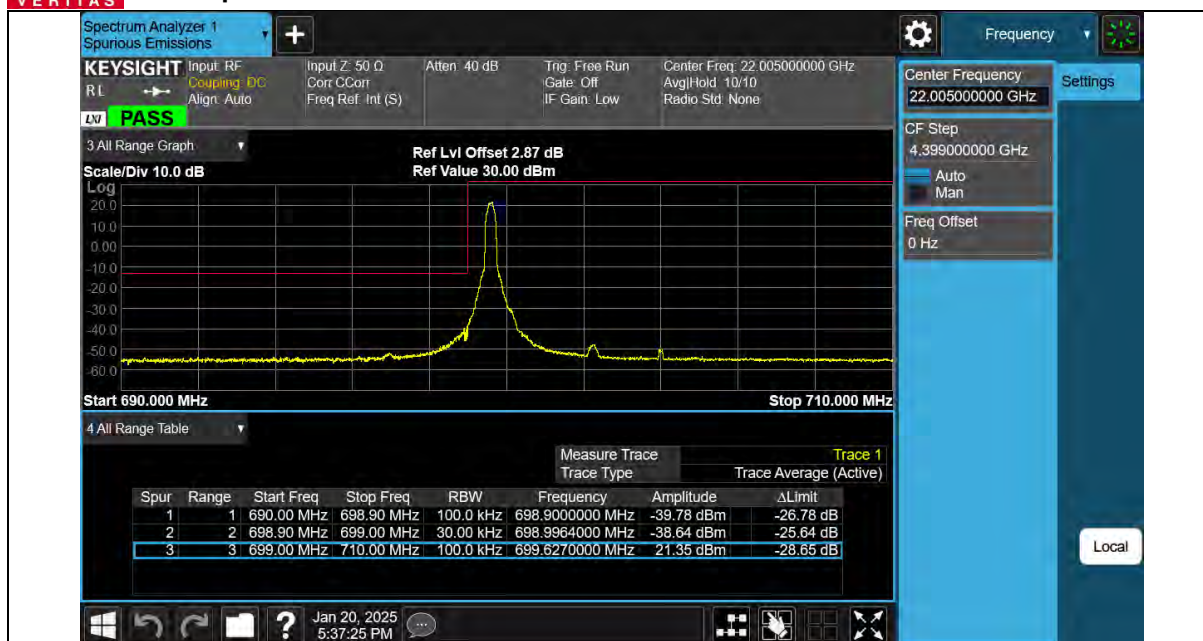
Band12-5MHz-16QAM-23155-25RB#0-PASS



Band12-5MHz-16QAM-23155-1RB#24-PASS



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



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



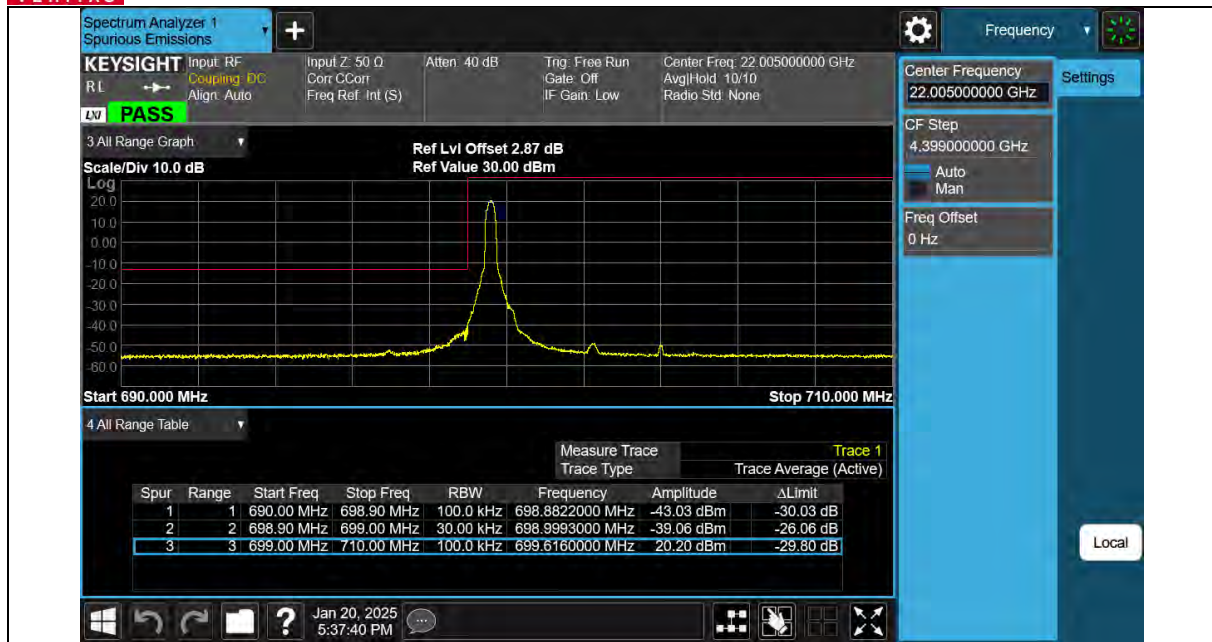
Band12-10MHz-QPSK-23130-50RB#0-PASS



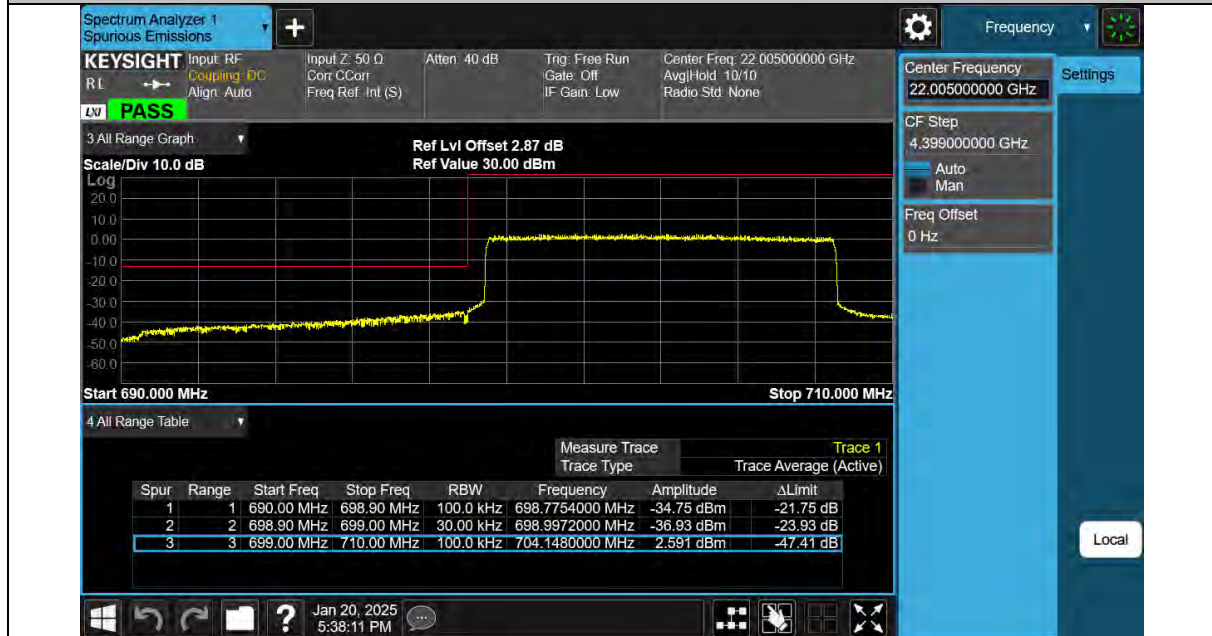
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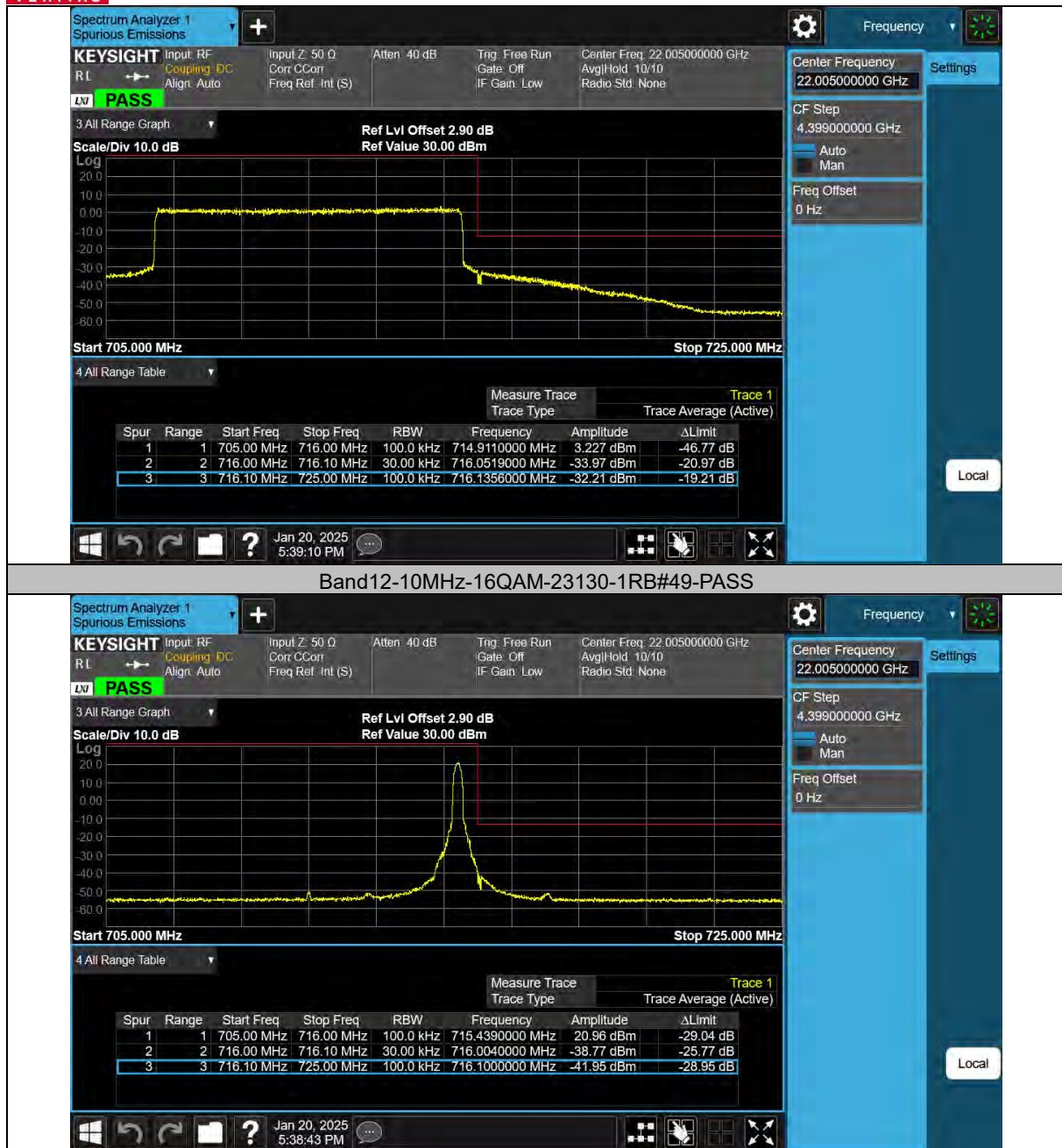




Band12-10MHz-16QAM-23060-50RB#0-PASS



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





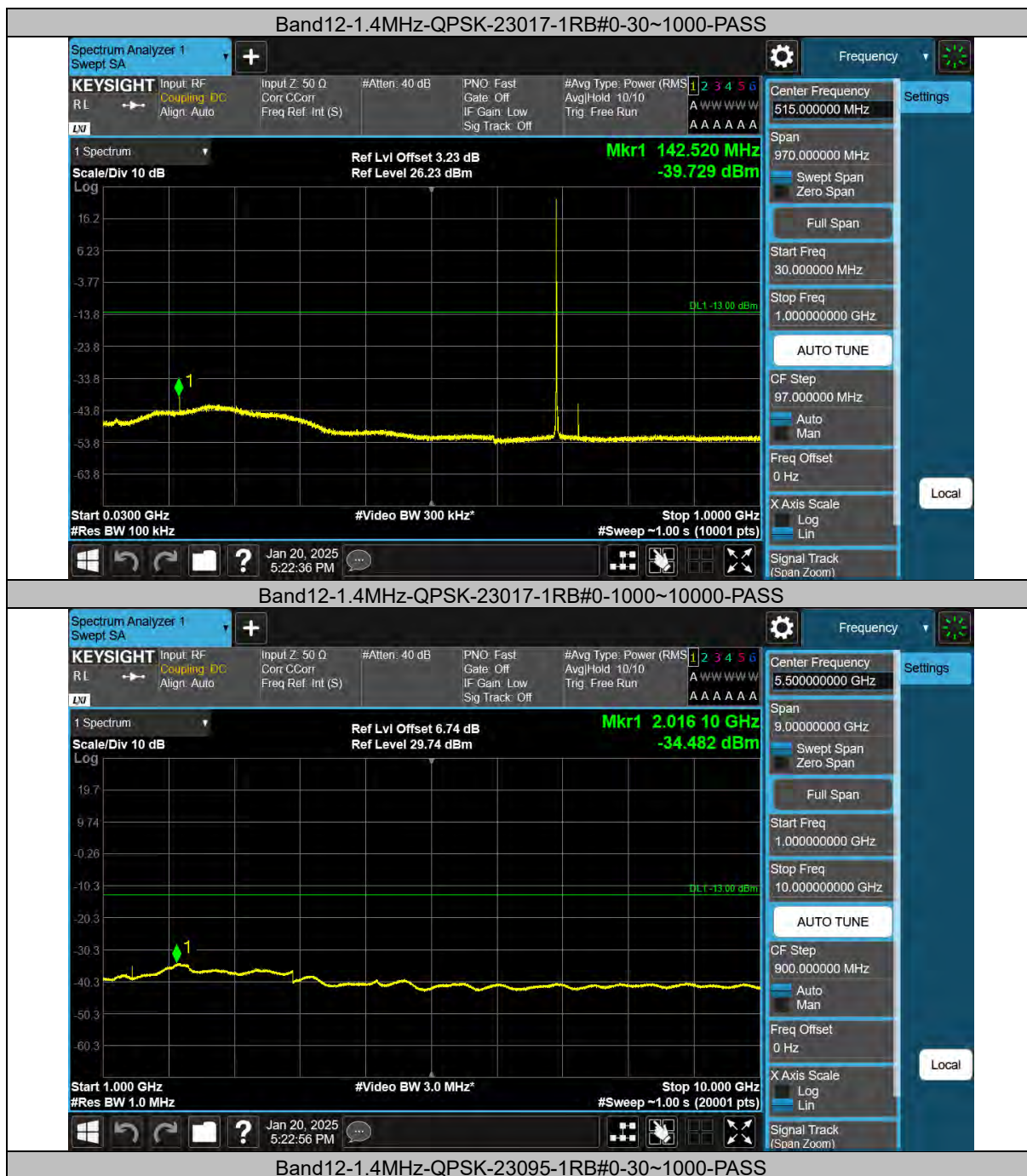
BUREAU VERITAS Test Report No.: PSU-NQN2412090110RF03
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-39.73	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~10000	-34.48	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-39.47	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~10000	-33.19	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-39.65	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~10000	-32.88	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-39.68	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~10000	-34.56	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-39.61	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~10000	-33.36	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-39.27	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~10000	-33.51	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-39.52	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~10000	-34.31	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-39.50	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~10000	-33.59	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-39.76	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~10000	-33.22	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-39.54	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~10000	-34.61	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-39.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~10000	-34.30	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-39.76	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~10000	-33.19	PASS



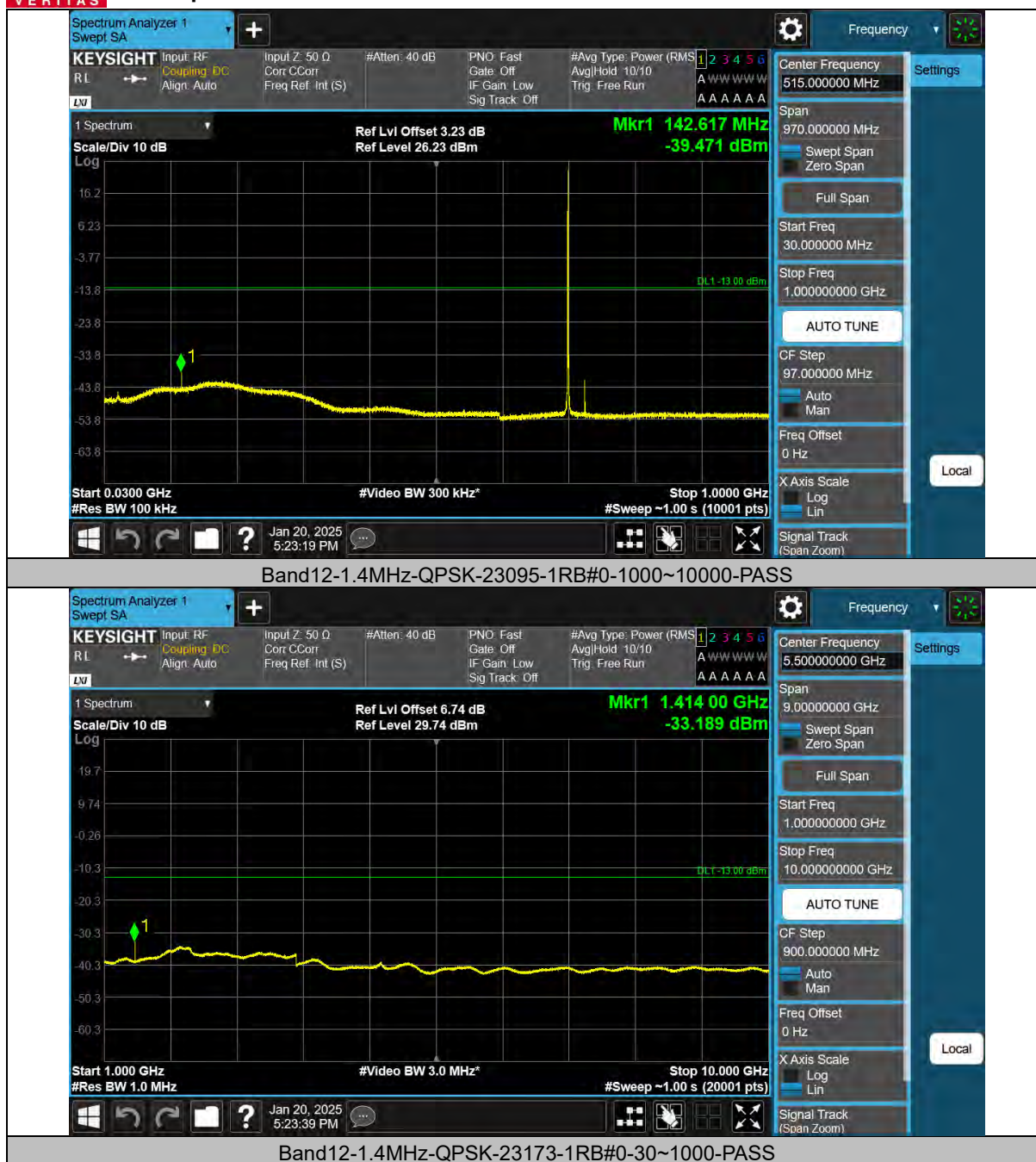
Test Graphs





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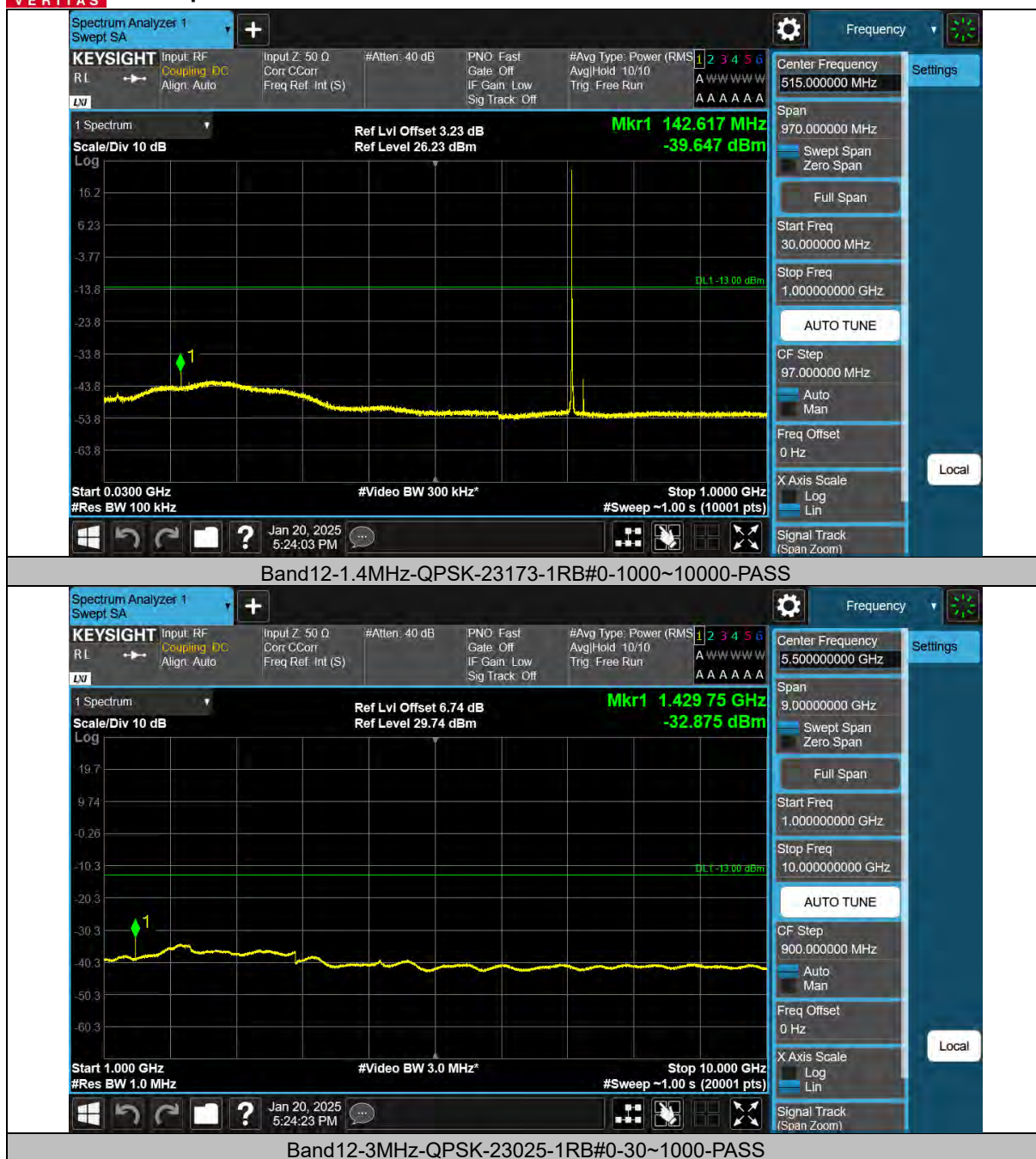
Test Report No.: PSU-NQN2412090110RF03





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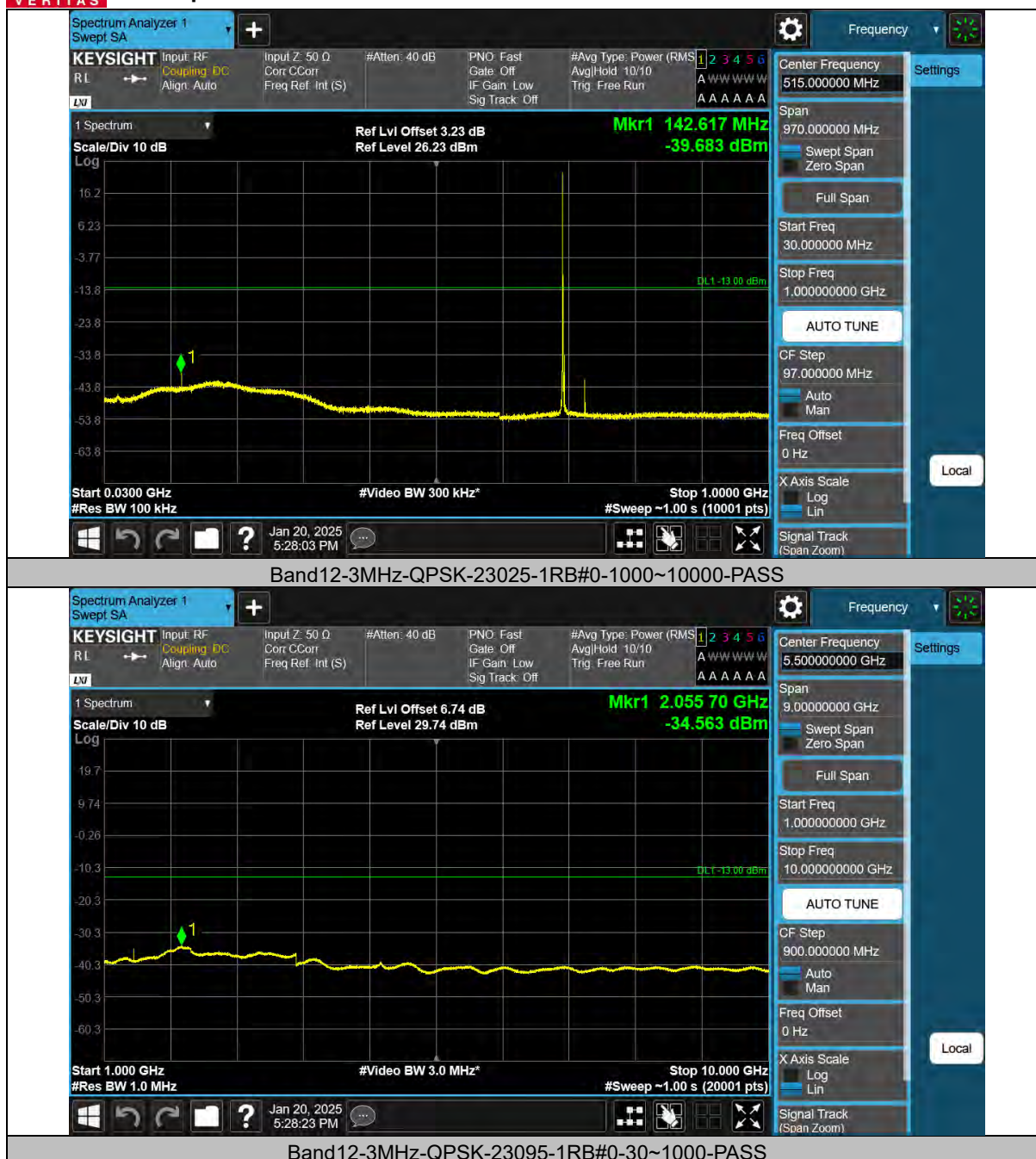
Test Report No.: PSU-NQN2412090110RF03





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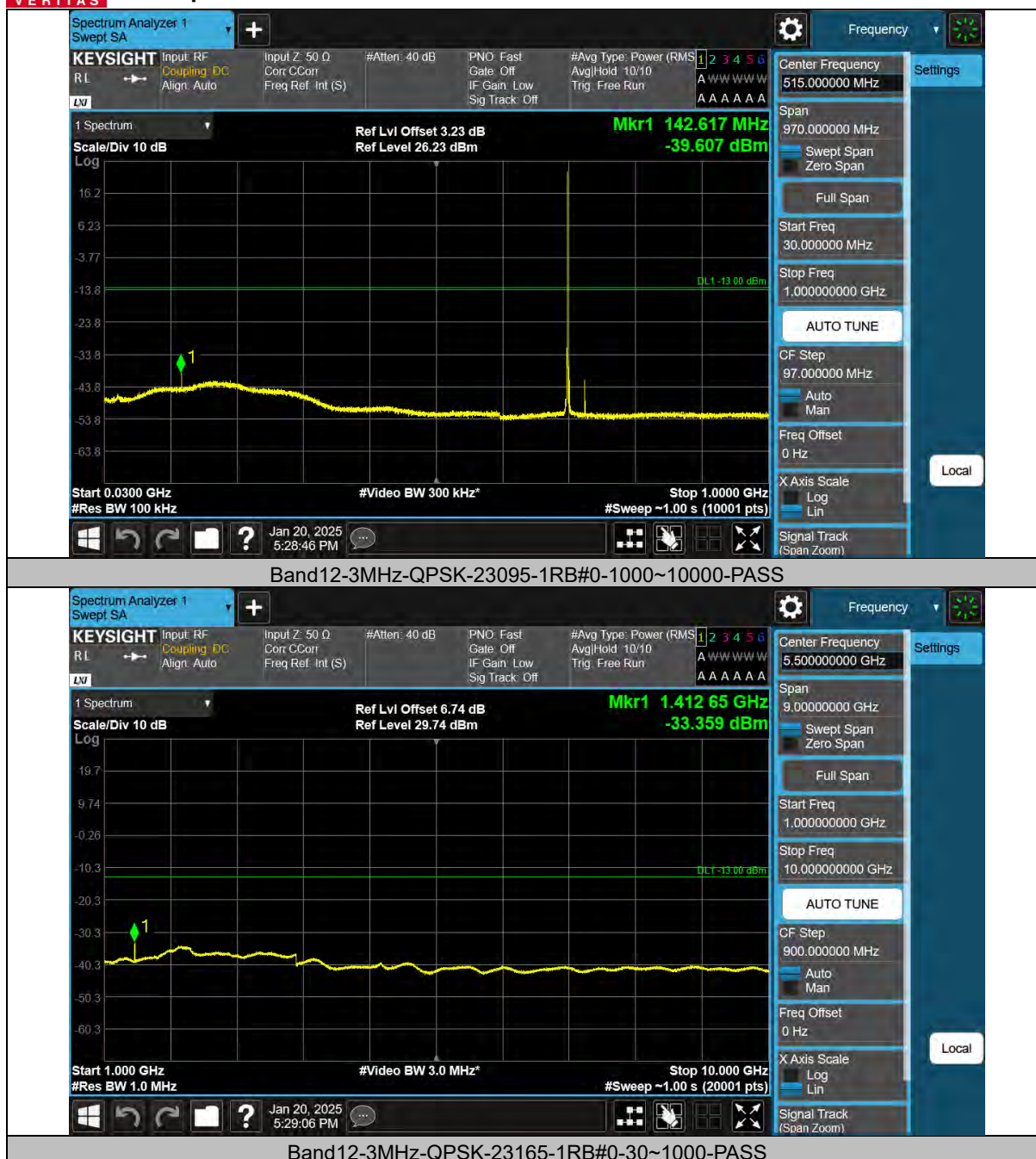
Test Report No.: PSU-NQN2412090110RF03





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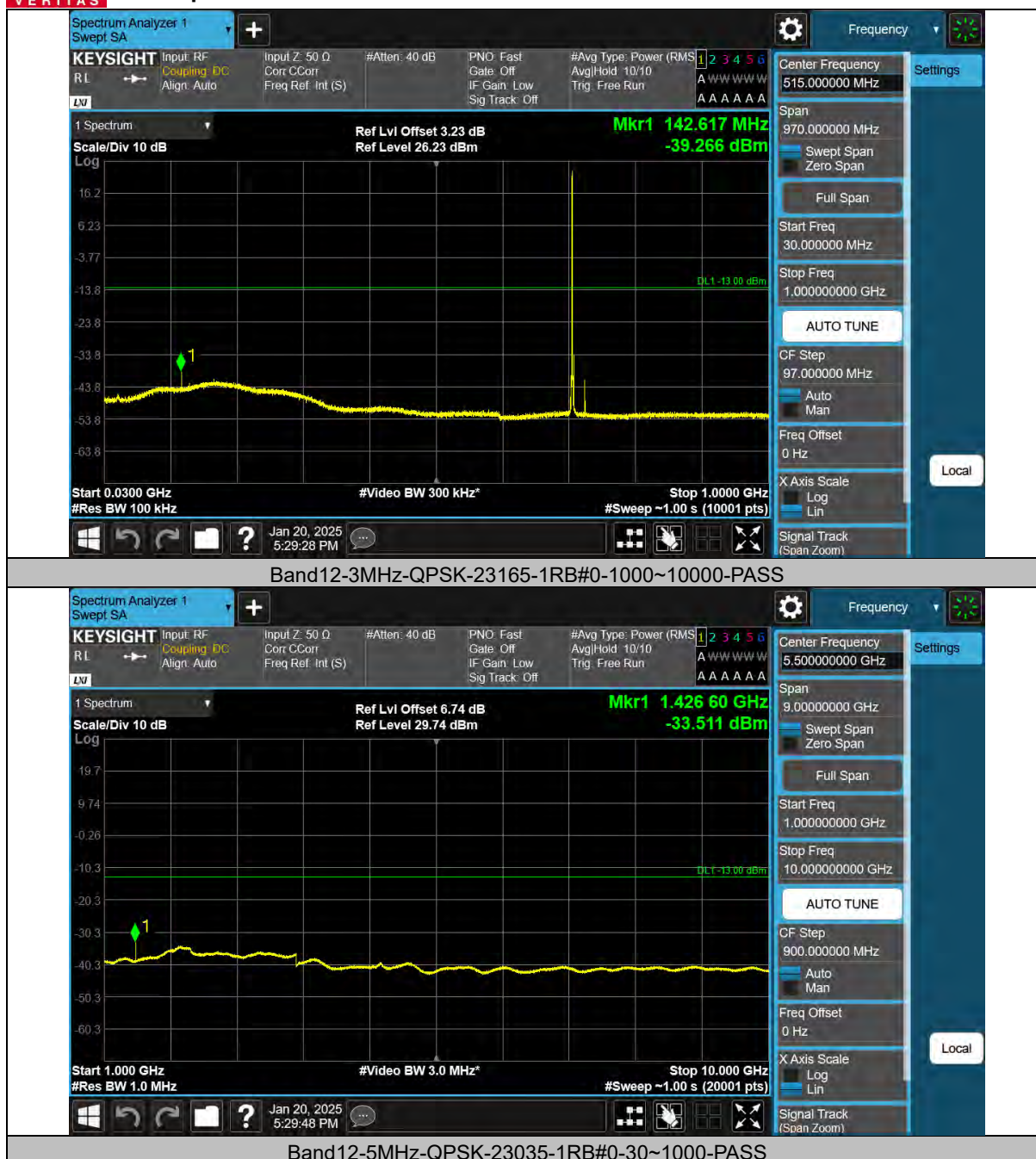
Test Report No.: PSU-NQN2412090110RF03





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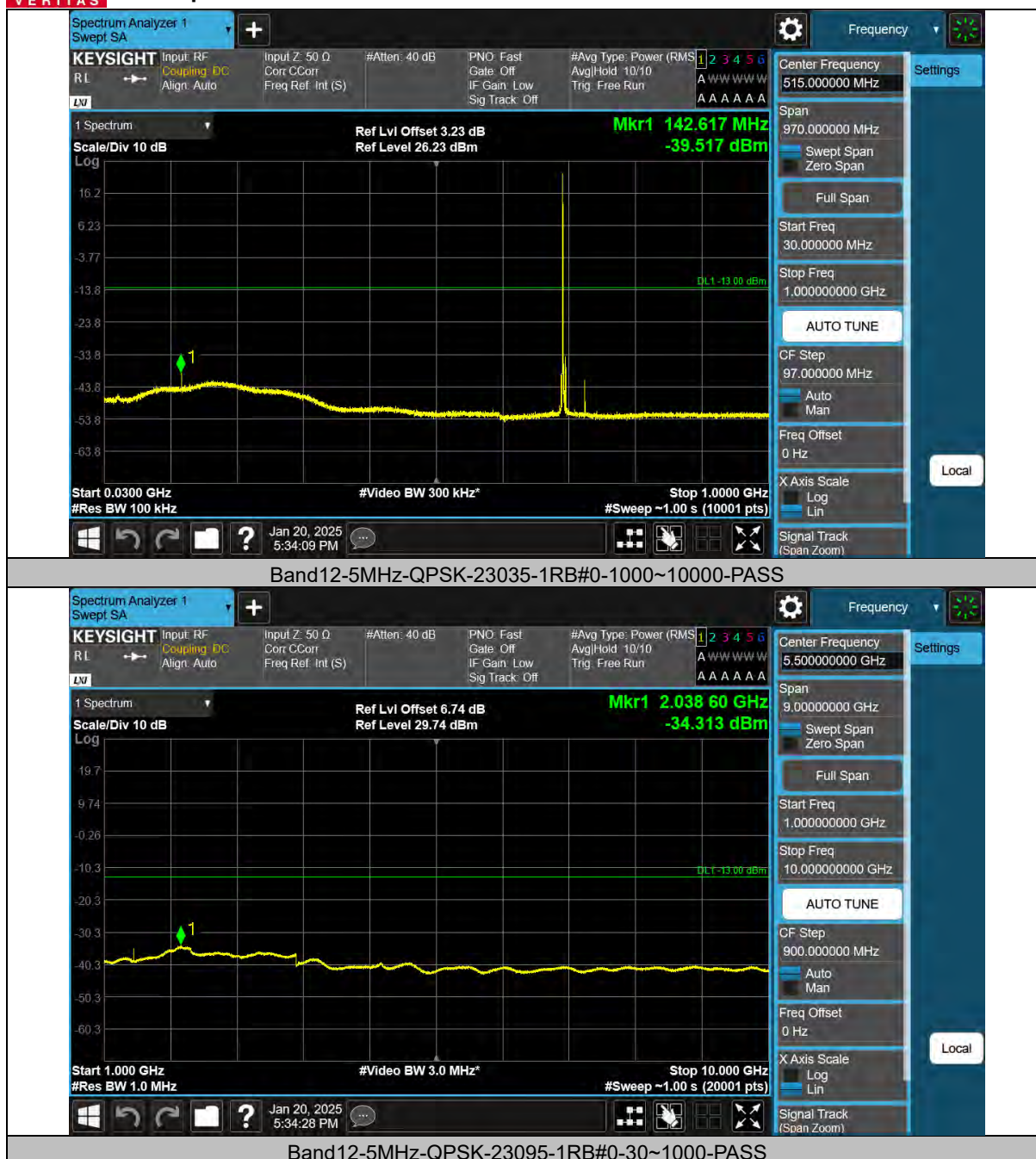
Test Report No.: PSU-NQN2412090110RF03





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VERITAS

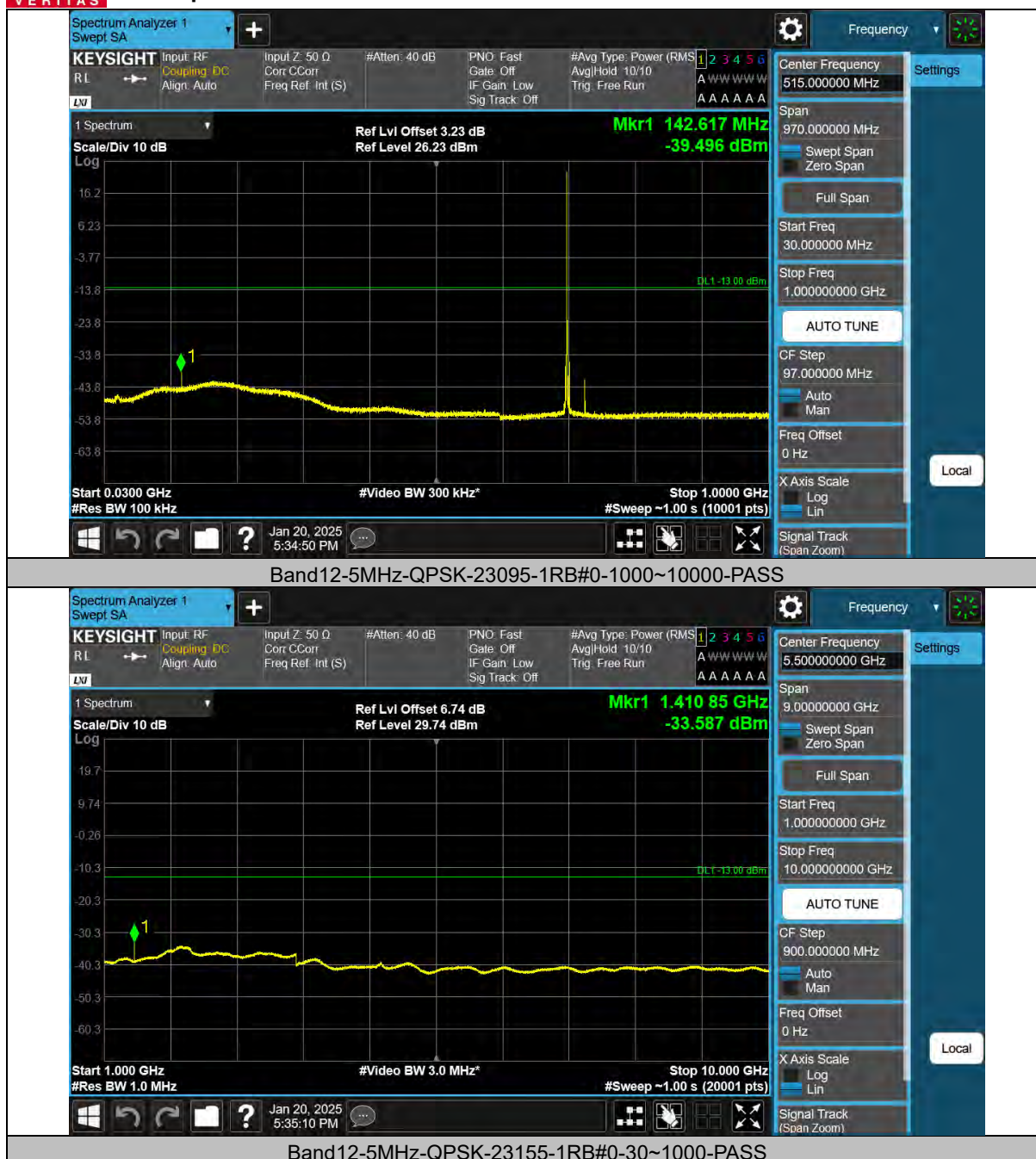
Test Report No.: PSU-NQN2412090110RF03





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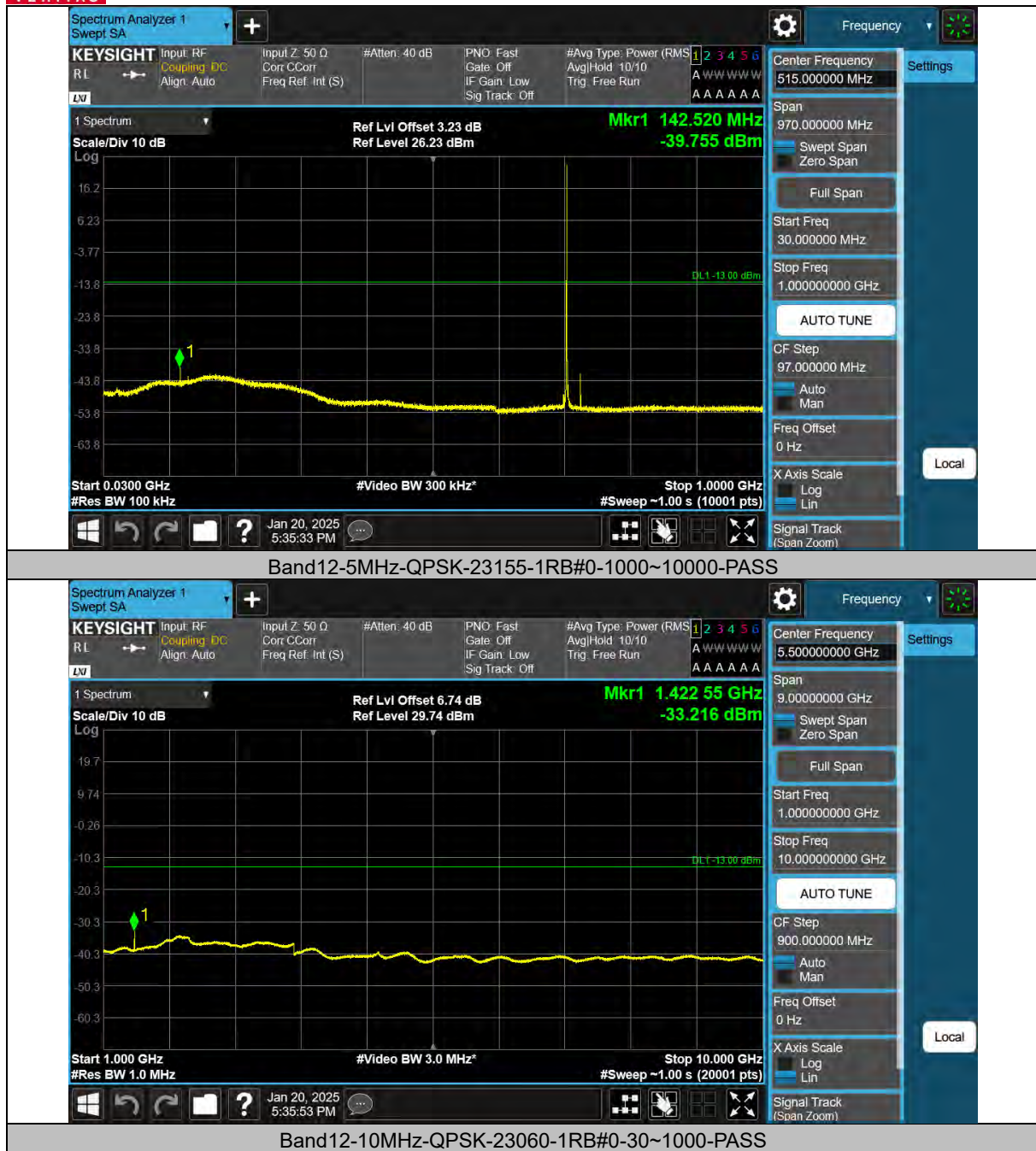
Test Report No.: PSU-NQN2412090110RF03





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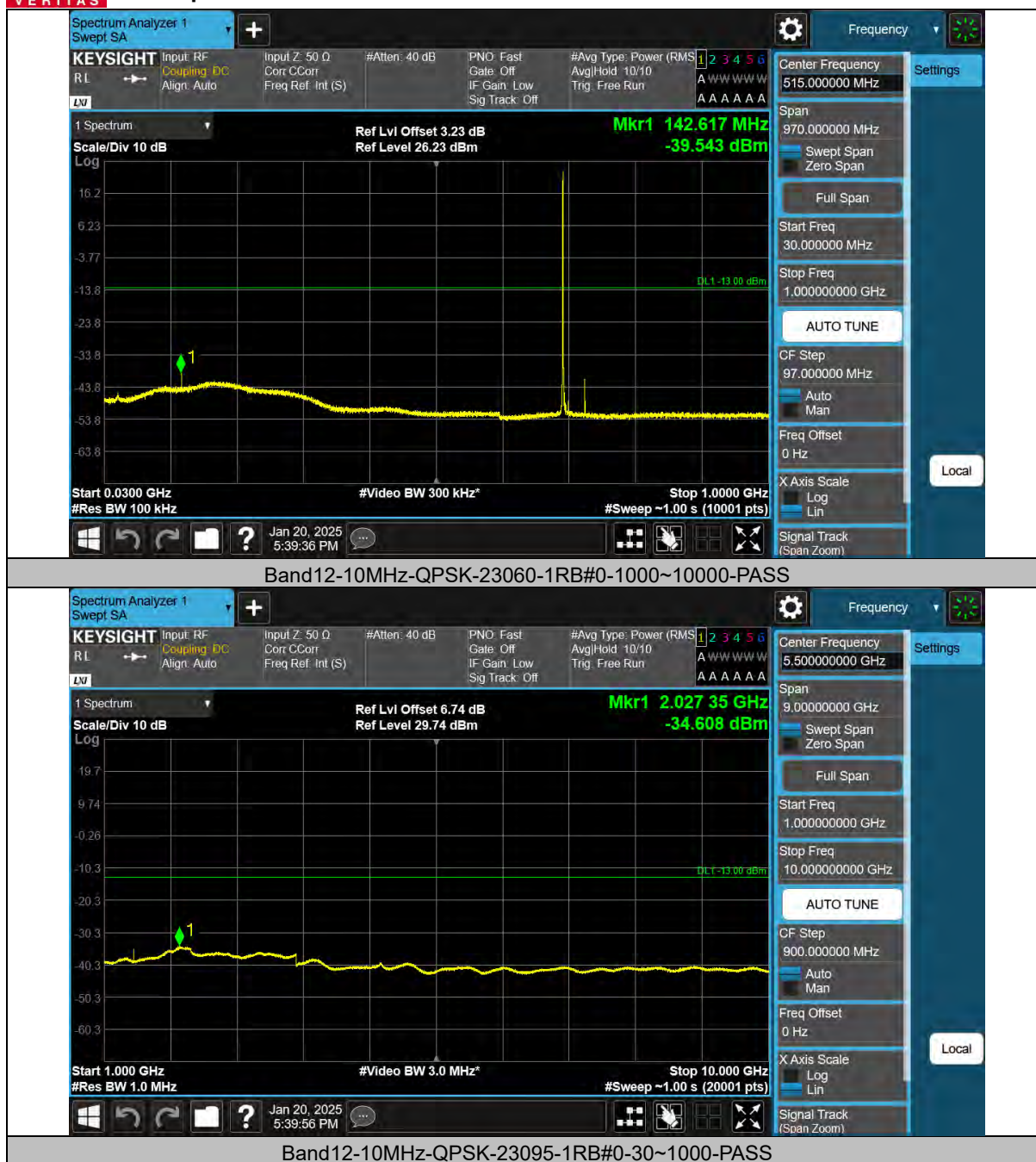
Test Report No.: PSU-NQN2412090110RF03





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VERITAS

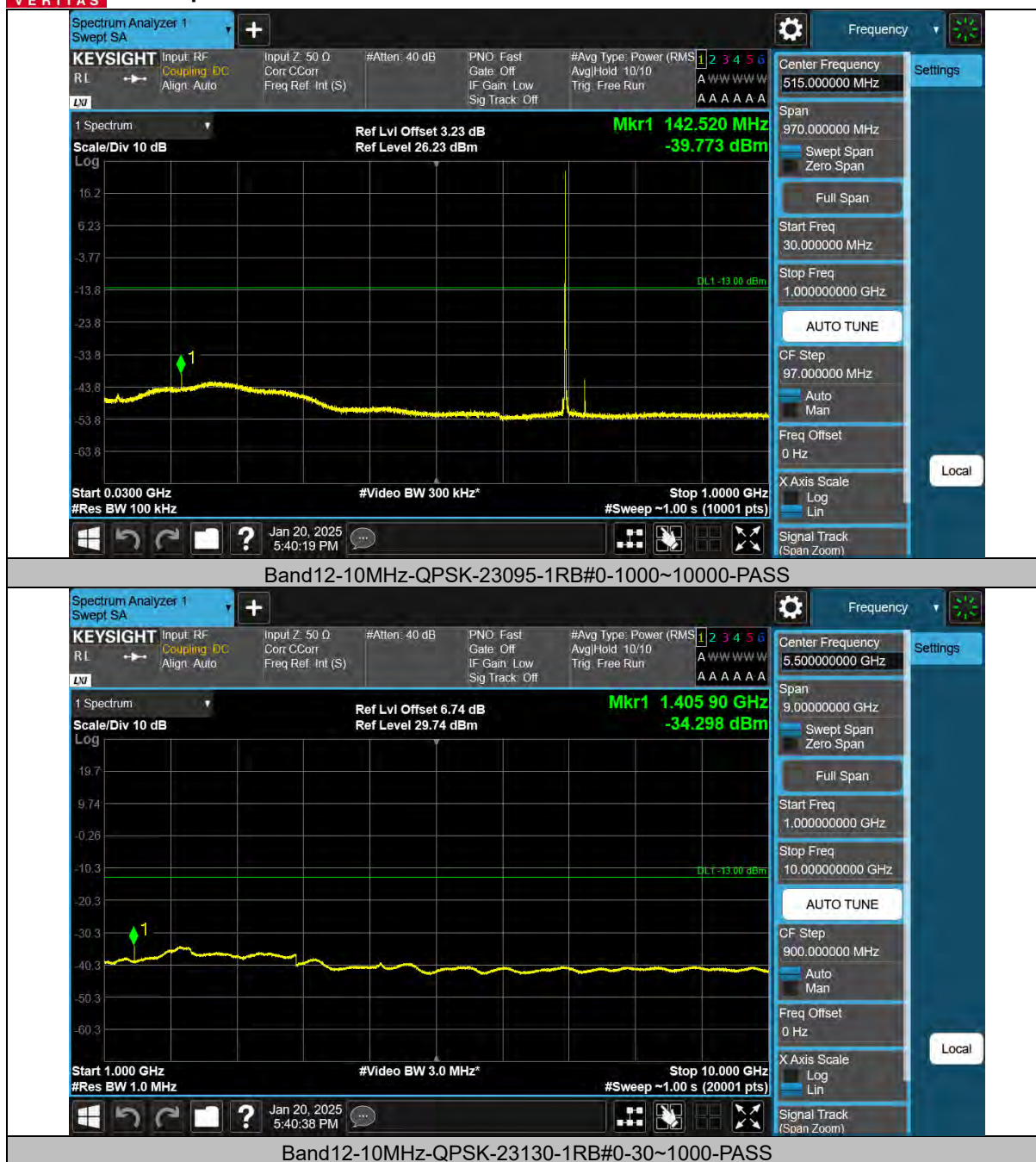
Test Report No.: PSU-NQN2412090110RF03





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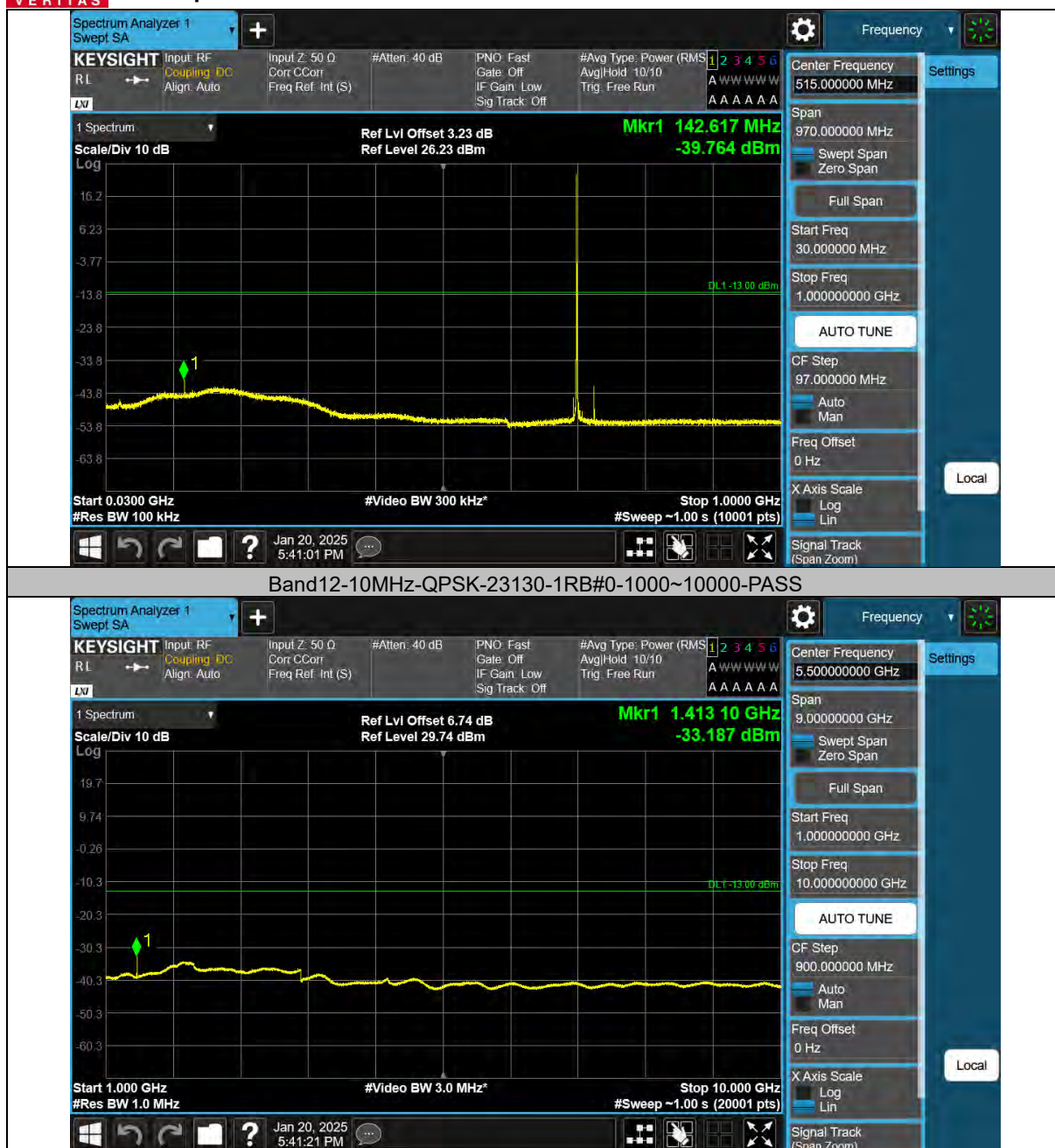
Test Report No.: PSU-NQN2412090110RF03





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Test Report No.: PSU-NQN2412090110RF03



**FREQUENCY STABILITY****Test Result**

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-11.64	-0.0165	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-7.92	-0.0113	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	6.58	0.0093	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-5.40	-0.0076	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-6.92	-0.0098	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	2.16	0.0031	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	12.50	0.0178	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	12.20	0.0173	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-7.50	-0.0107	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	6.00	0.0085	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-9.20	-0.0131	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	16.20	0.0230	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-24.20	-0.0344	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-0.90	-0.0013	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	7.20	0.0102	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-10.00	-0.0141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	20.80	0.0294	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	15.80	0.0223	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-5.20	-0.0073	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	2.20	0.0031	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	18.00	0.0254	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	11.40	0.0161	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-24.60	-0.0348	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	24.30	0.0343	±2.5	PASS



LTE BAND 13

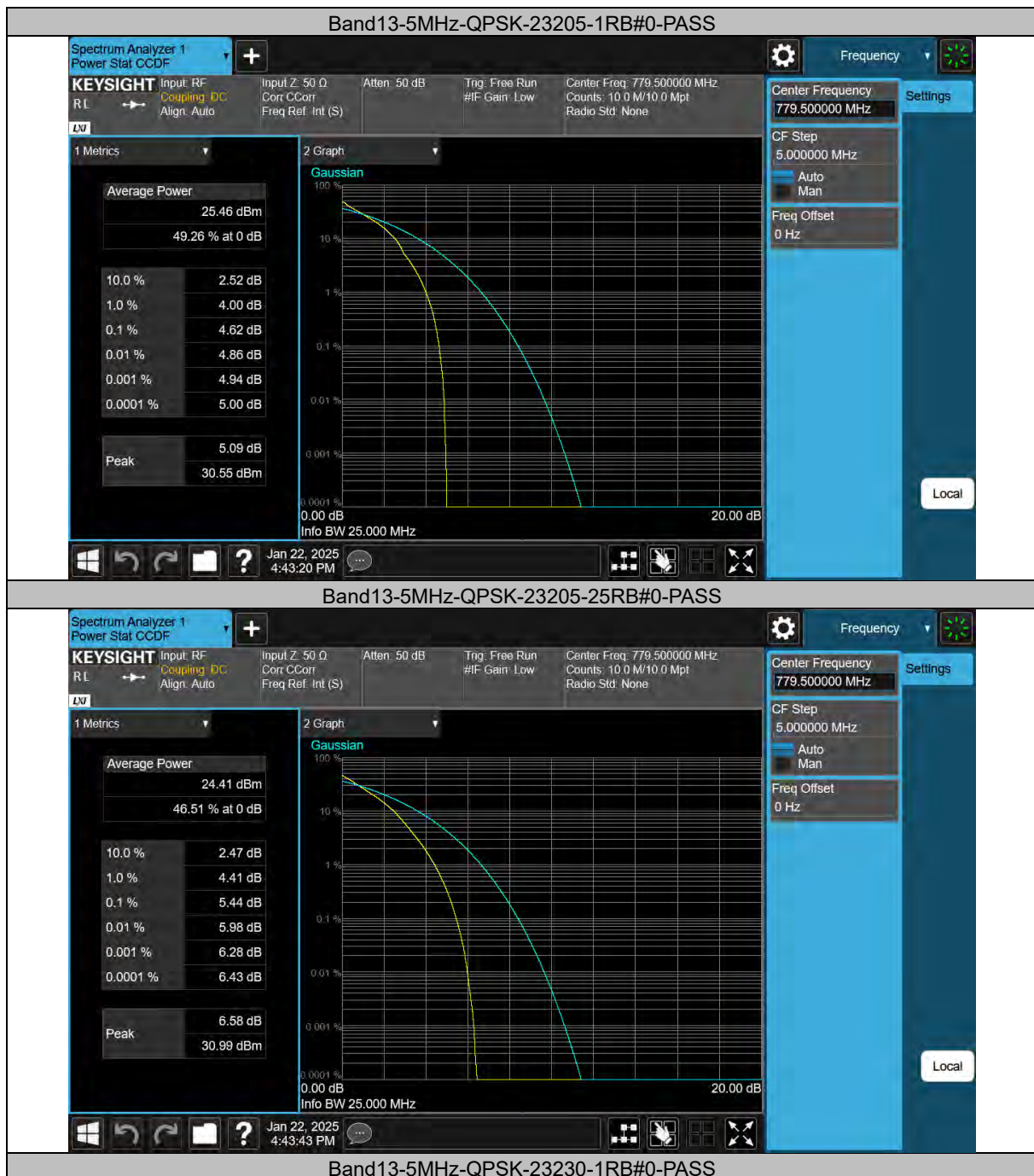
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.62	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.44	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.70	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.50	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.05	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.45	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.21	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.58	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.22	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.89	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.18	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.61	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.61	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.55	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.33	13	PASS



Test Graphs





Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-1RB#0-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23205-1RB#0-PASS



Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-16QAM-23230-1RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-16QAM-23255-1RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-50RB#0-PASS



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5225	5.087	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5228	5.177	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5402	5.201	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5276	5.150	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5230	5.187	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5174	5.129	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0284	10.15	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0422	10.10	PASS



Test Graphs





Band13-5MHz-16QAM-23205-25RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS





BAND EDGE

Test Result

NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-60.41	PASS
Band13	5MHz	QPSK	23205	25RB#0	-46.72	PASS
Band13	5MHz	QPSK	23255	25RB#0	-35.63	PASS
Band13	5MHz	QPSK	23255	1RB#24	-61.70	PASS
Band13	5MHz	16QAM	23205	1RB#0	-60.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	-46.25	PASS
Band13	5MHz	16QAM	23255	25RB#0	-56.93	PASS
Band13	5MHz	16QAM	23255	1RB#24	-62.45	PASS
Band13	10MHz	QPSK	23230	1RB#0	-59.58	PASS
Band13	10MHz	QPSK	23230	50RB#0	-48.53	PASS
Band13	10MHz	QPSK	23230	1RB#49	-62.05	PASS
Band13	10MHz	16QAM	23230	1RB#0	-60.08	PASS
Band13	10MHz	16QAM	23230	50RB#0	-49.39	PASS
Band13	10MHz	16QAM	23230	1RB#49	-62.07	PASS



Test Graphs

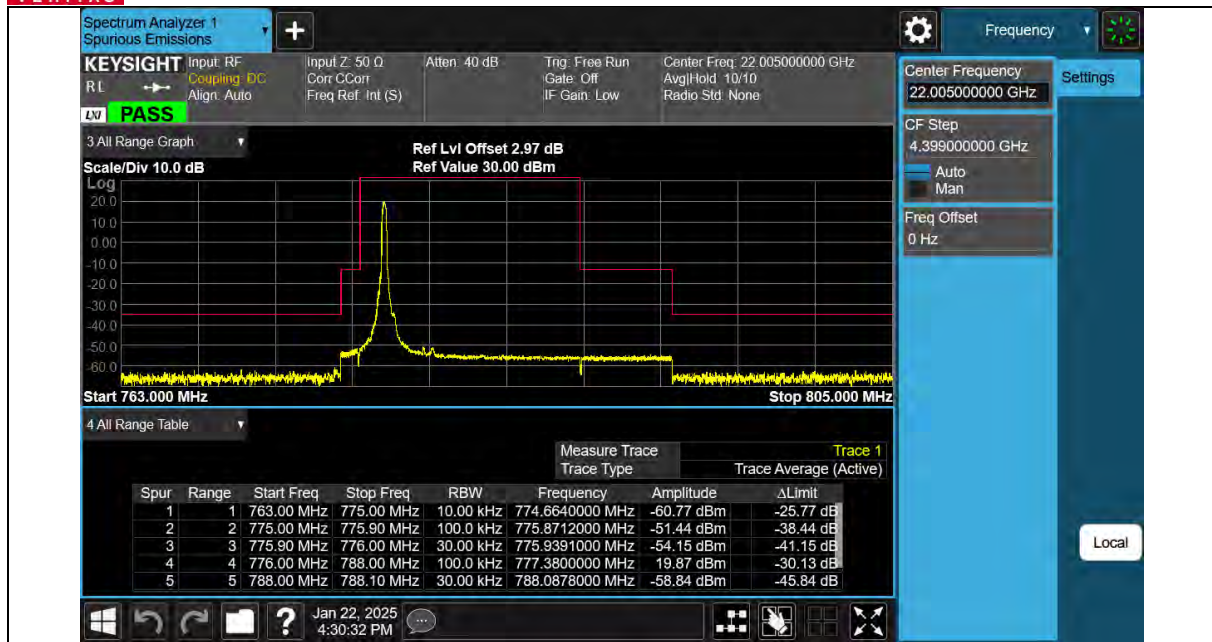




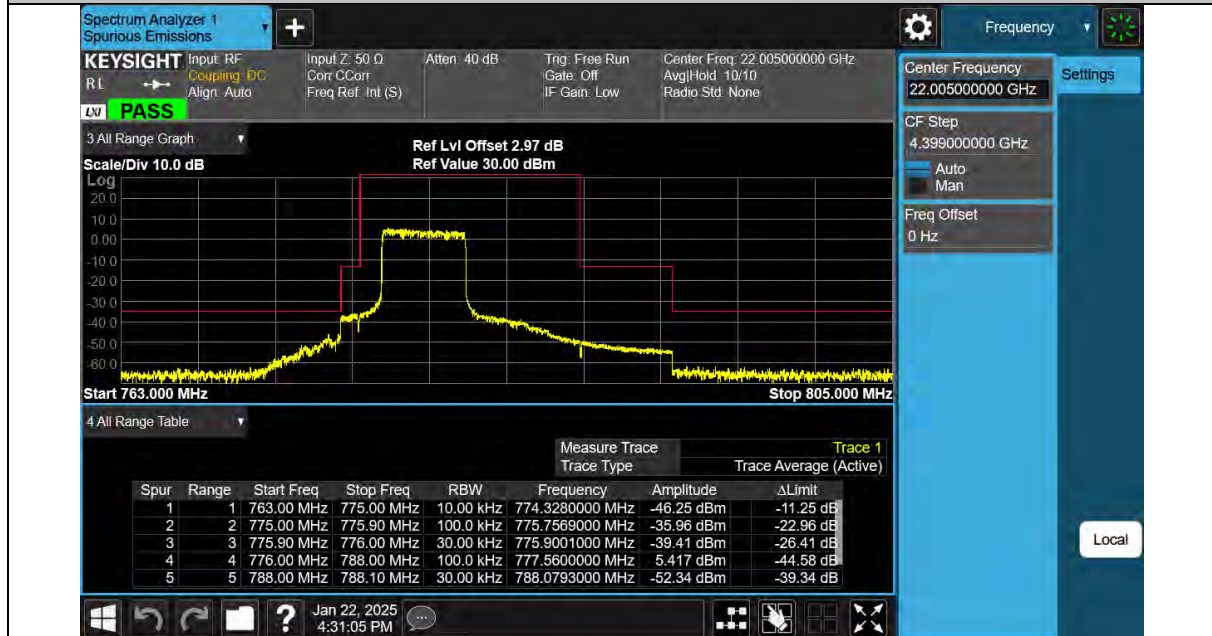
BUREAU
VERITAS

Test Report No.: PSU-NQN2412090110RF03

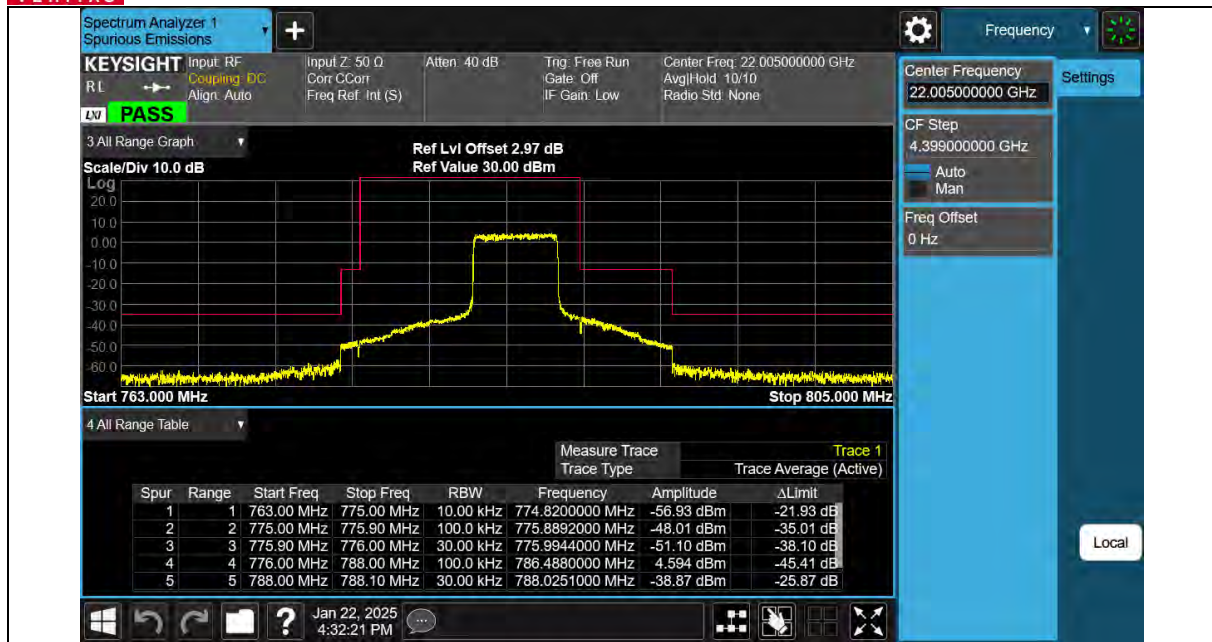




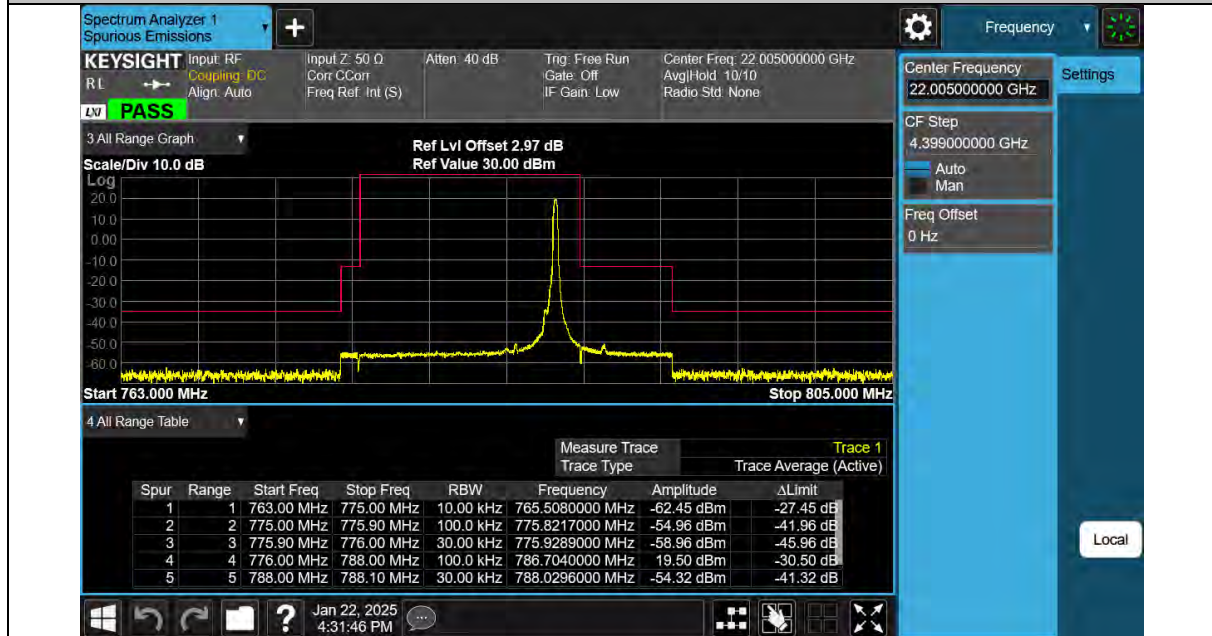
Band13-5MHz-16QAM-23205-25RB#0-PASS



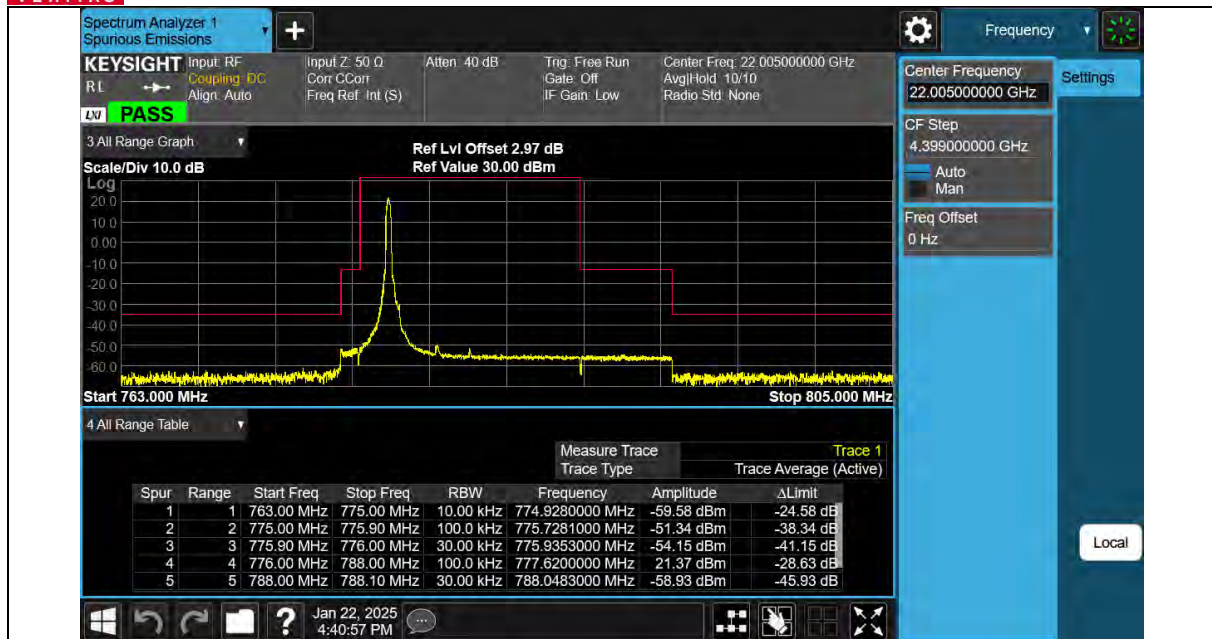
Band13-5MHz-16QAM-23255-25RB#0-PASS



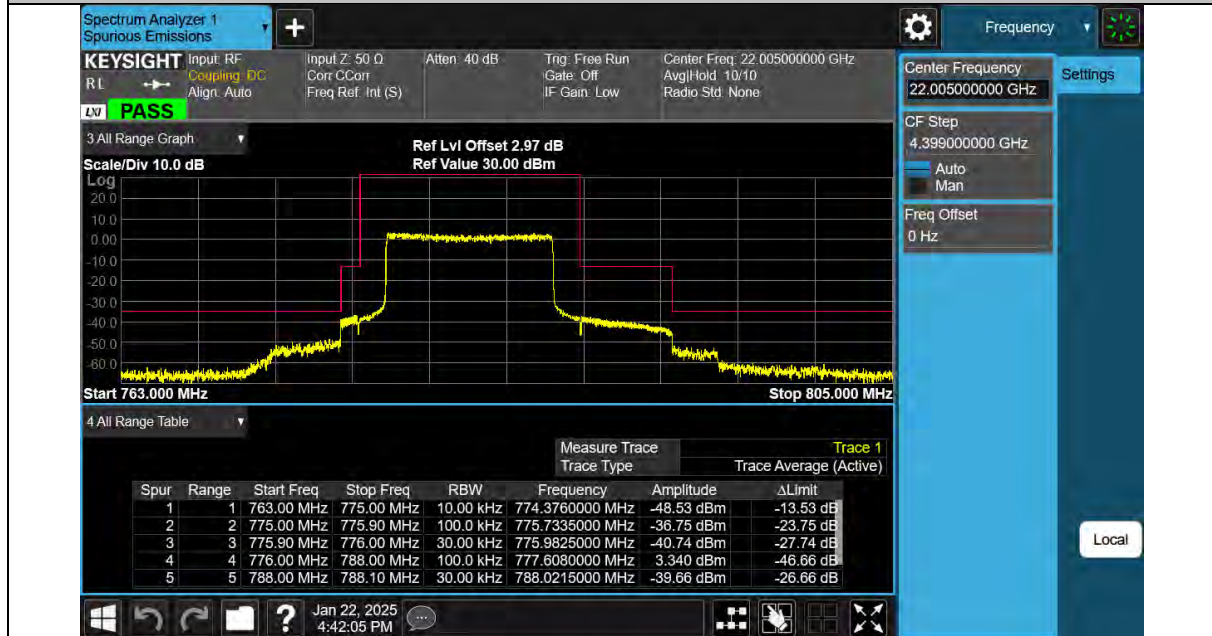
Band13-5MHz-16QAM-23255-1RB#24-PASS



Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-QPSK-23230-1RB#49-PASS