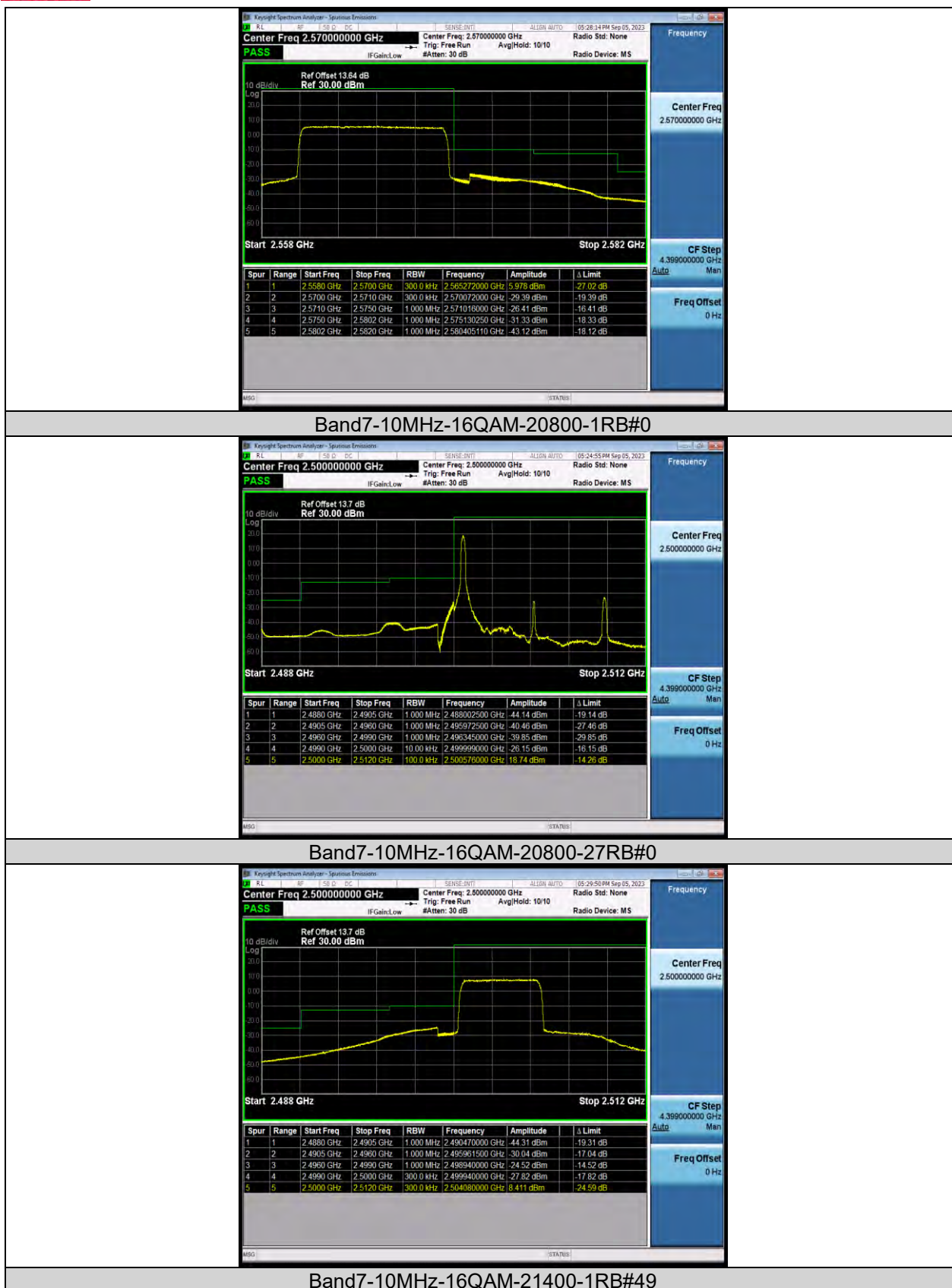
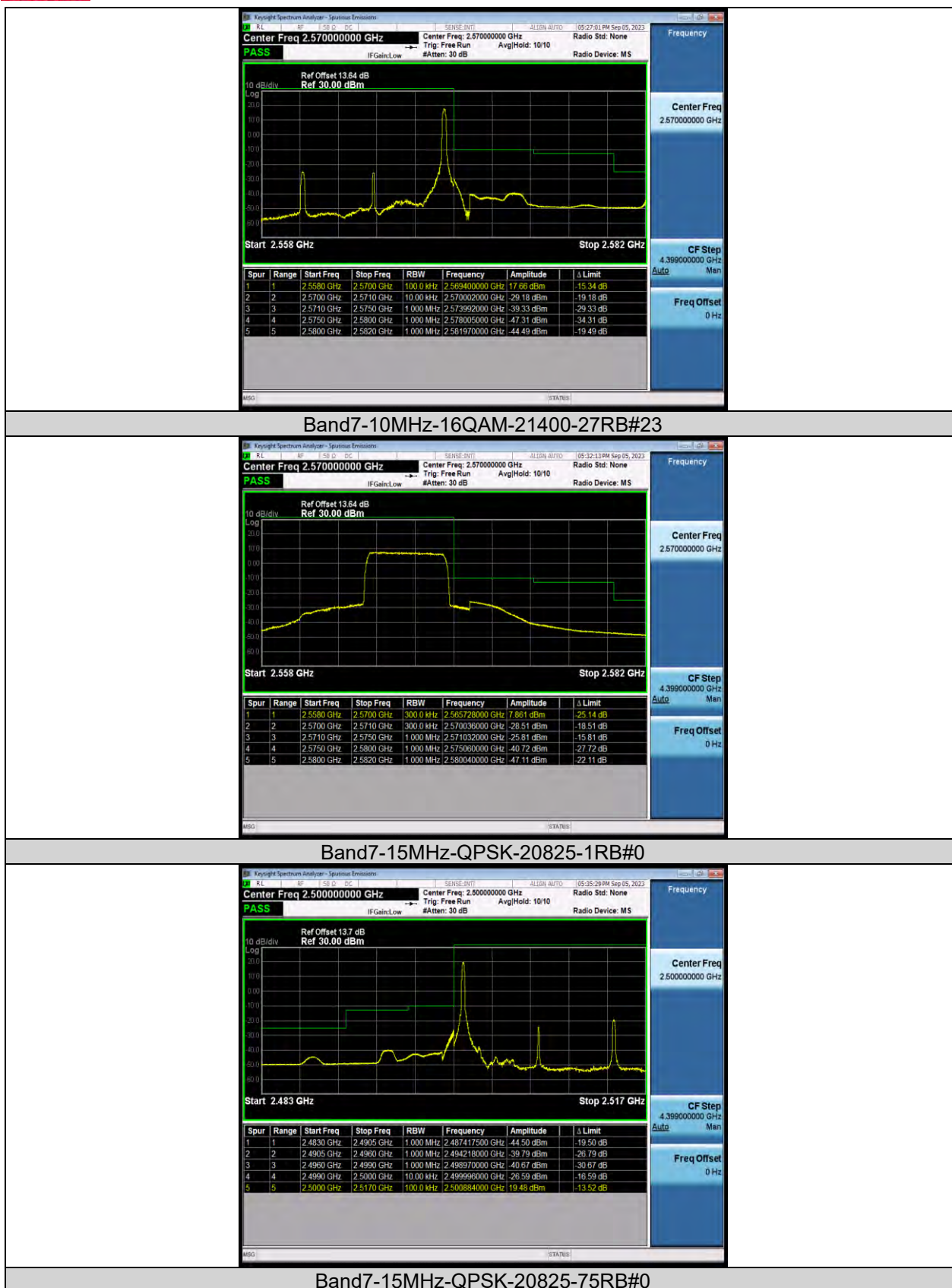
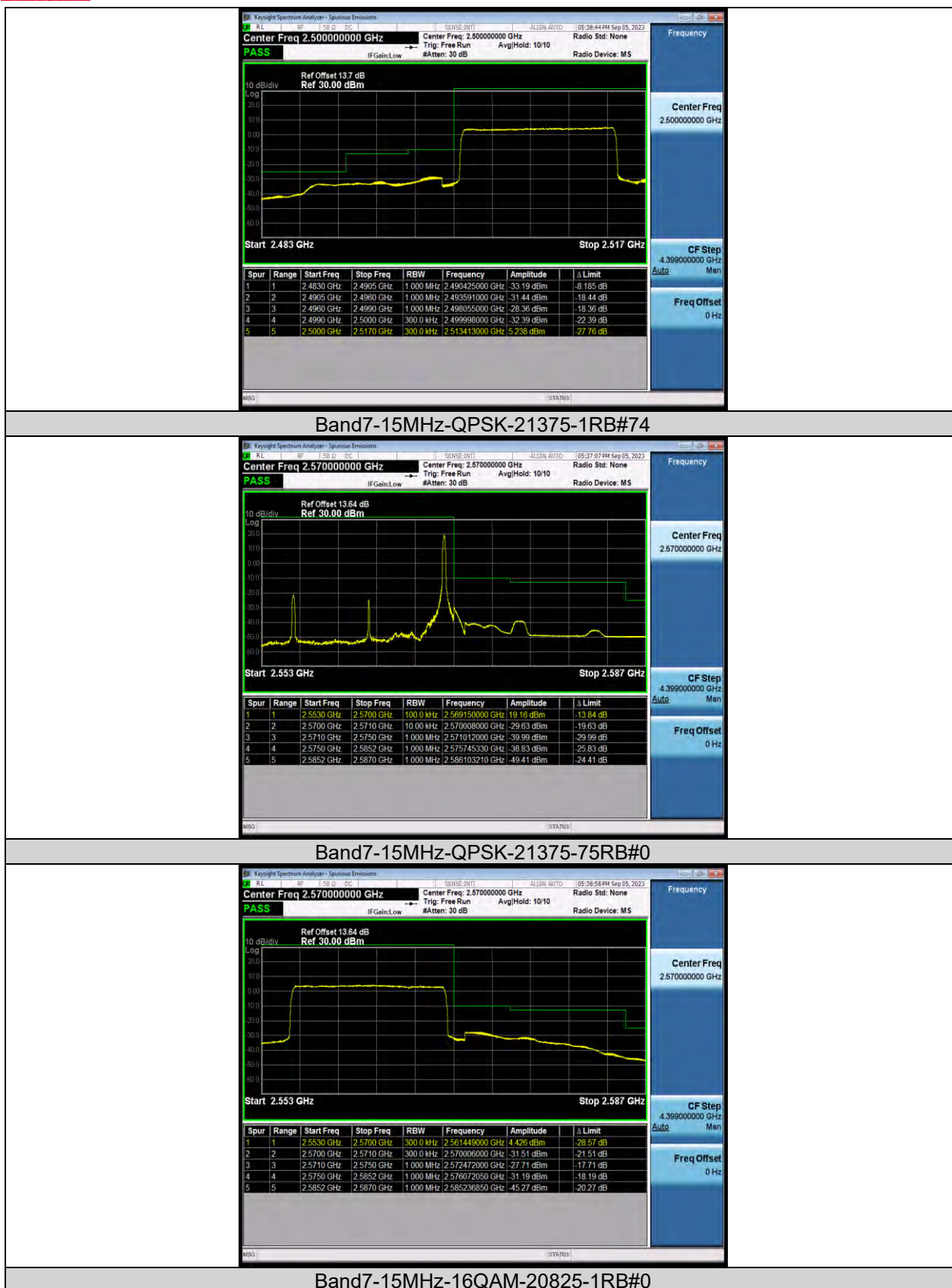
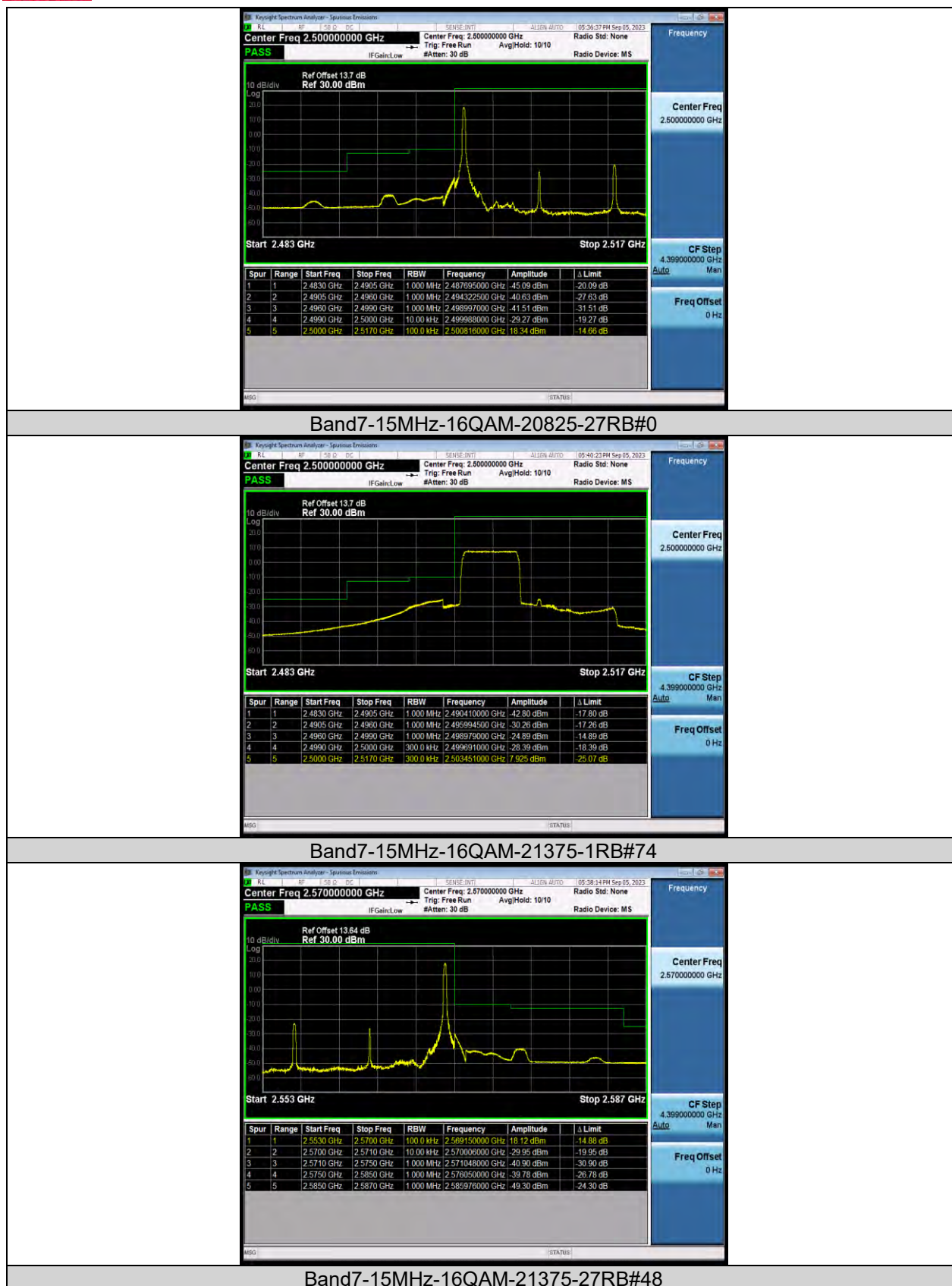
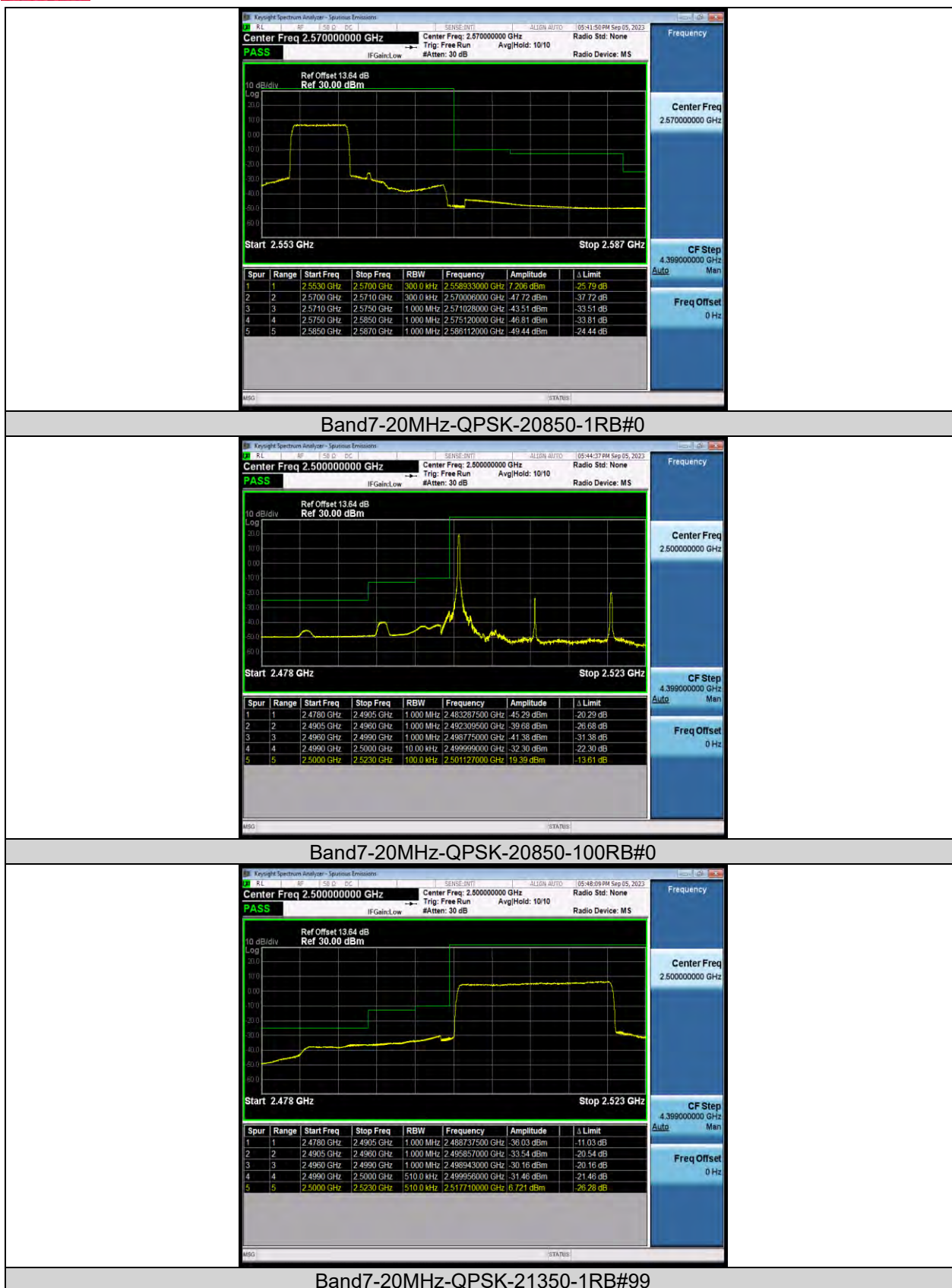


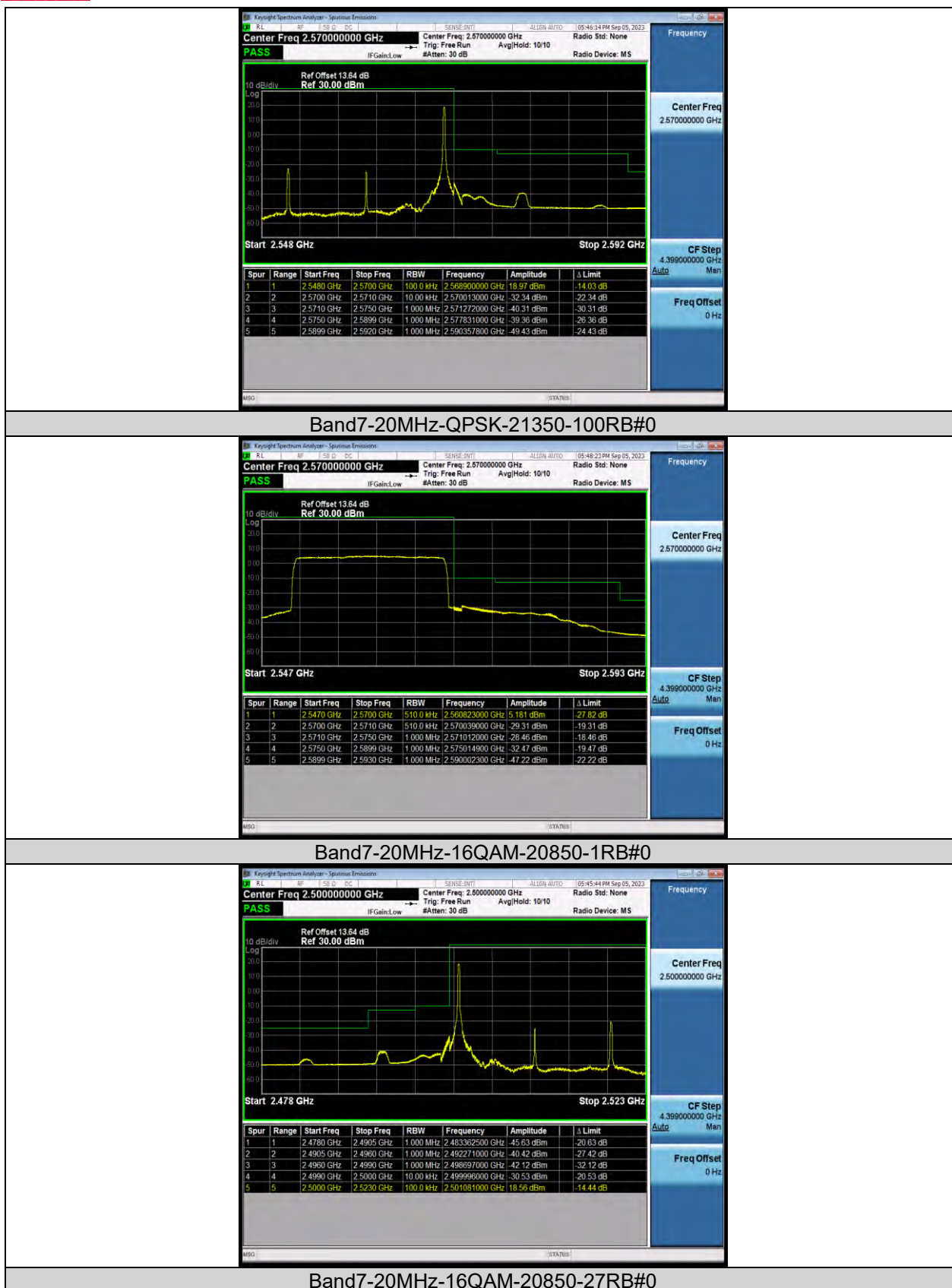


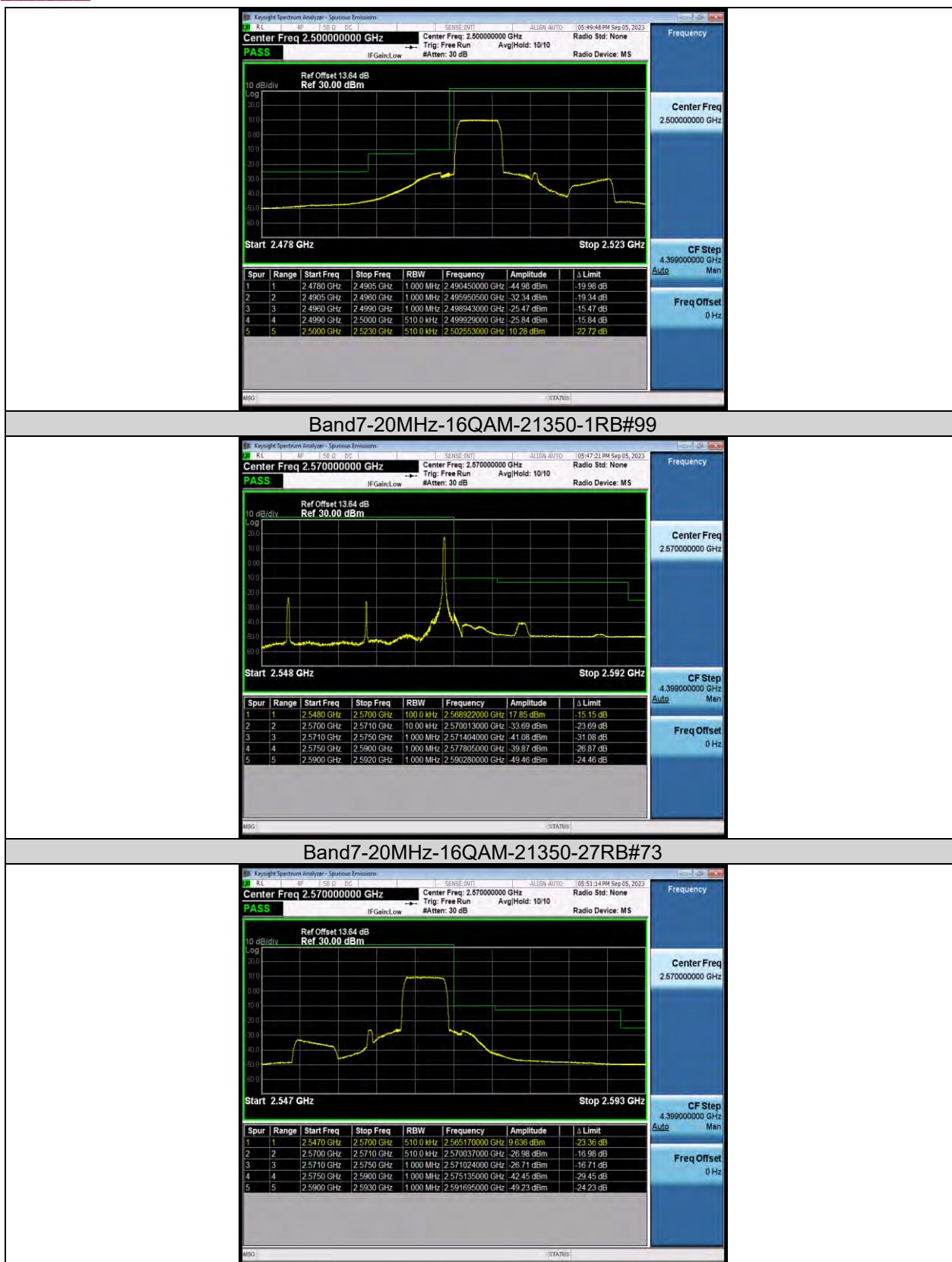












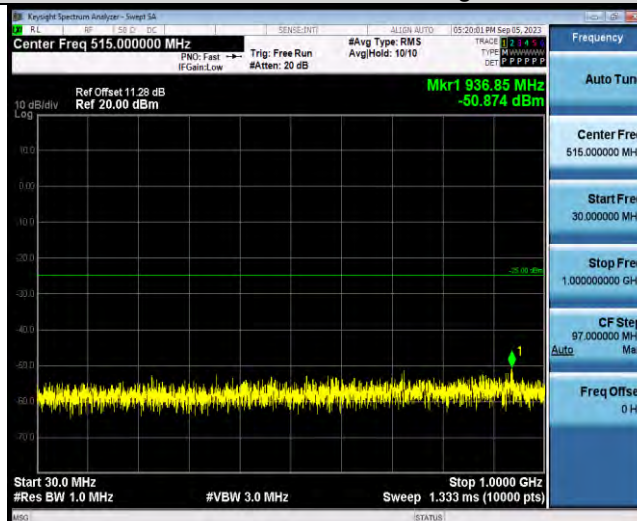
CONDUCTED SPURIOUS EMISSION

Test Result

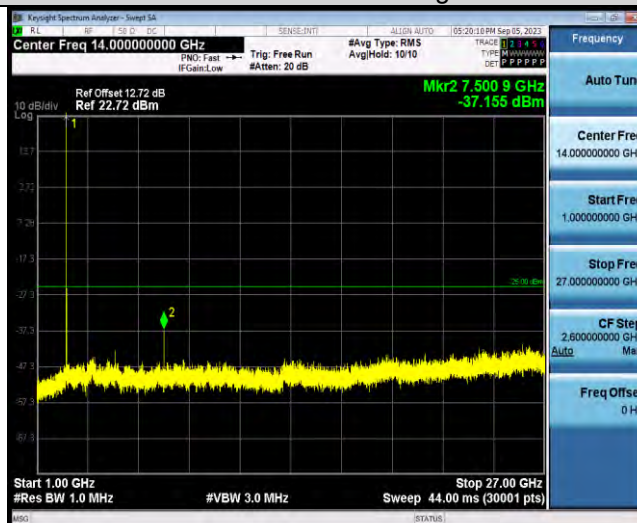
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-50.87	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~27000MHz	-37.16	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-51.47	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-38.23	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-52.4	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~27000MHz	-39.78	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range1:30~1000MHz	-50.5	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range2:1000~27000MHz	-39.56	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.66	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-37.6	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range1:30~1000MHz	-49.83	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range2:1000~27000MHz	-38.28	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range1:30~1000MHz	-49.55	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range2:1000~27000MHz	-41.07	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.04	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-41.09	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range1:30~1000MHz	-50.3	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range2:1000~27000MHz	-40.36	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-51.05	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~27000MHz	-41.26	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.13	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.31	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-51.16	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~27000MHz	-39.95	PASS

Test Graphs

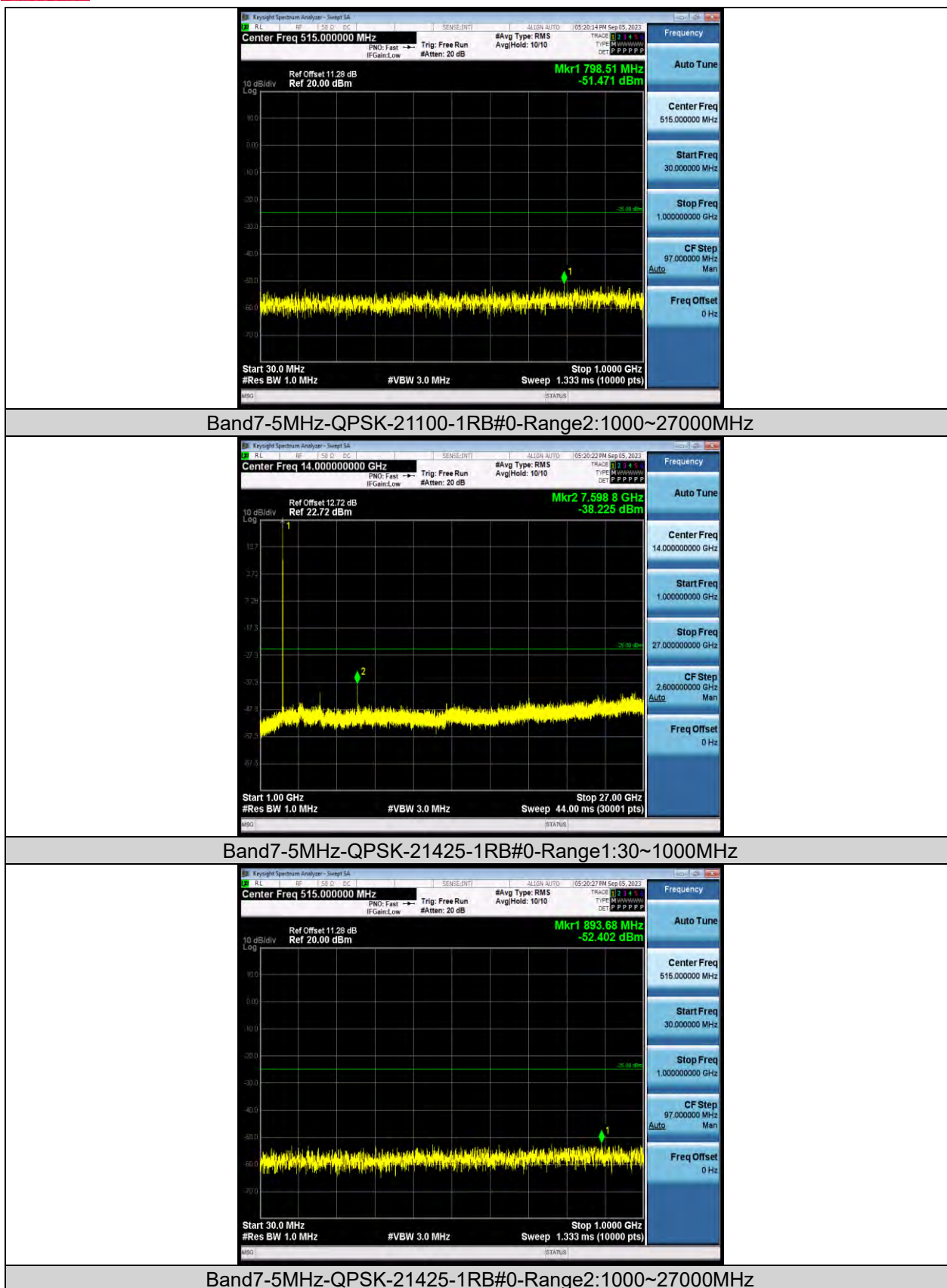
Band7-5MHz-QPSK-20775-1RB#0-Range1:30~1000MHz

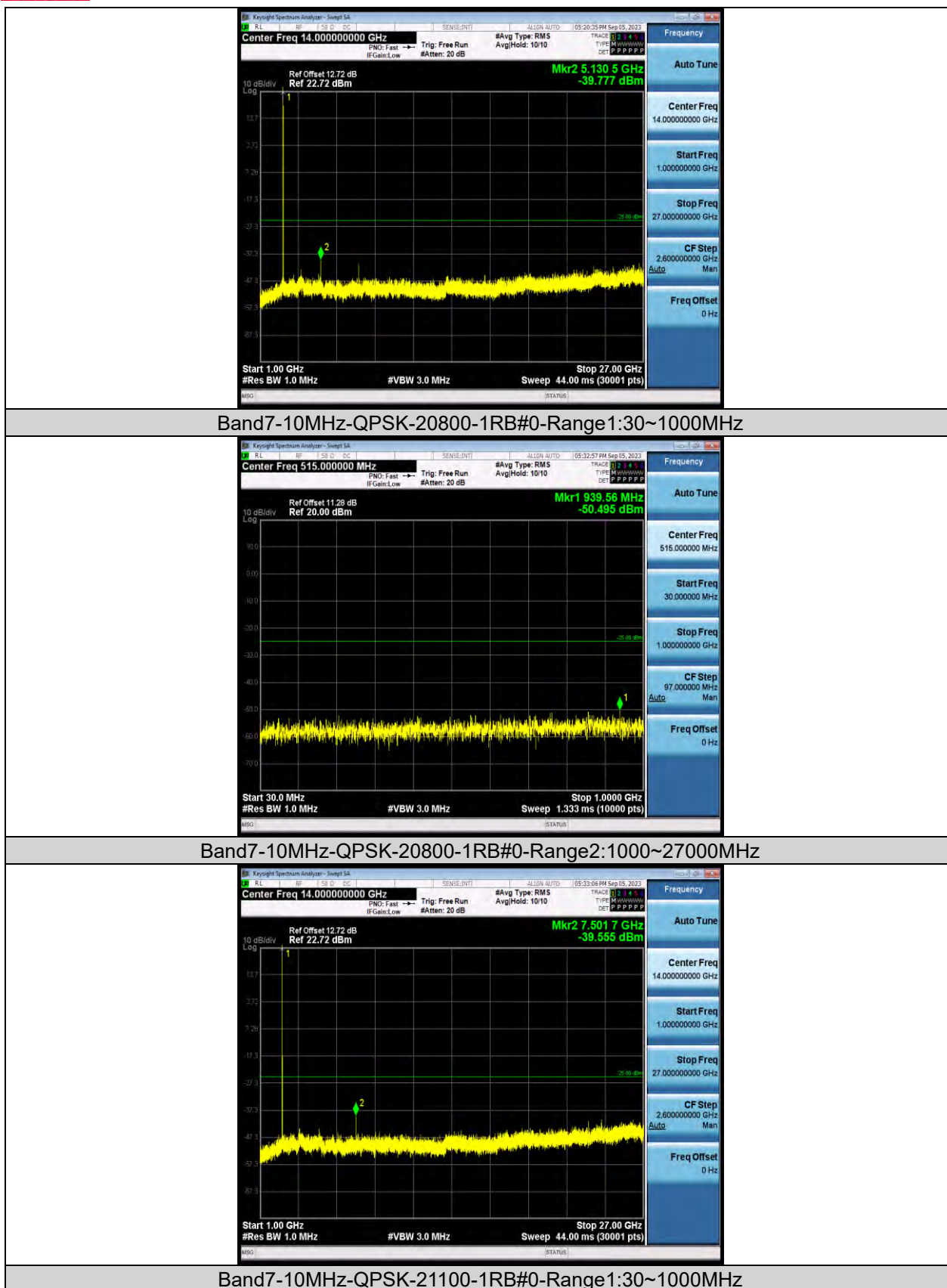


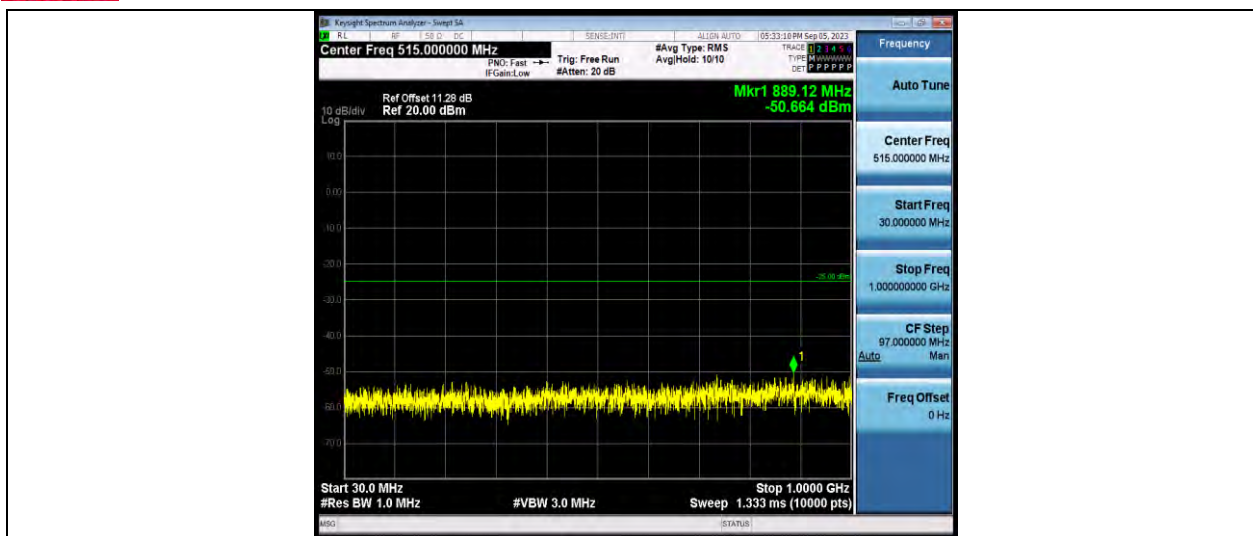
Band7-5MHz-QPSK-20775-1RB#0-Range2:1000~27000MHz



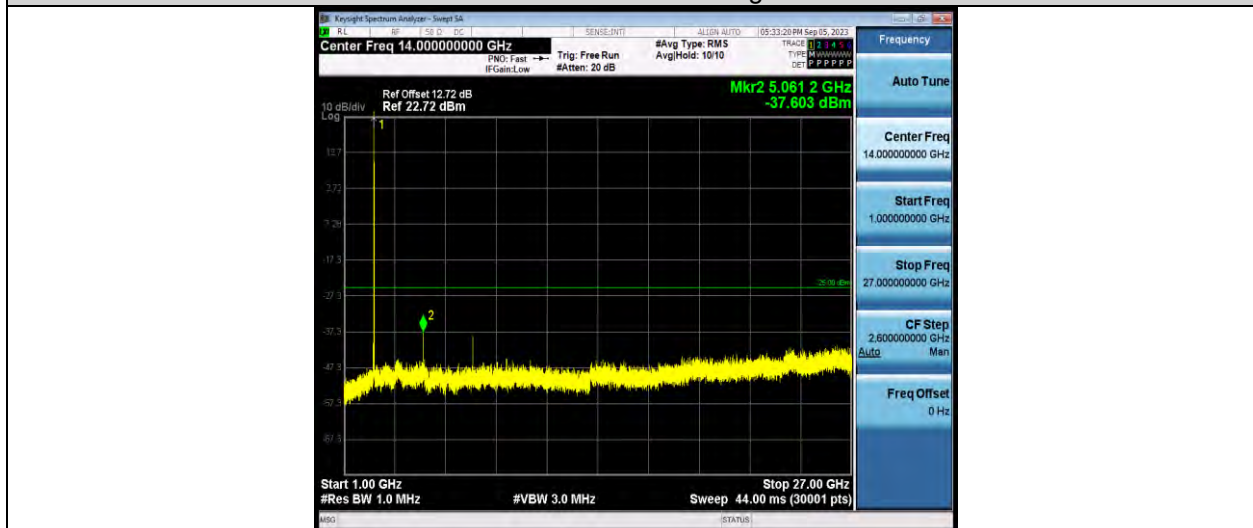
Band7-5MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



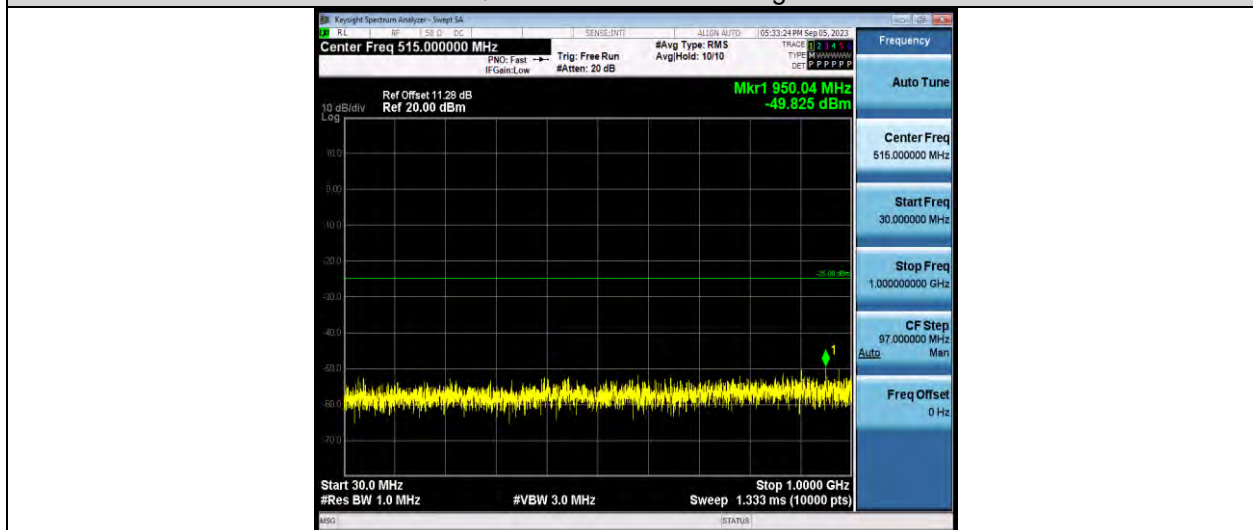




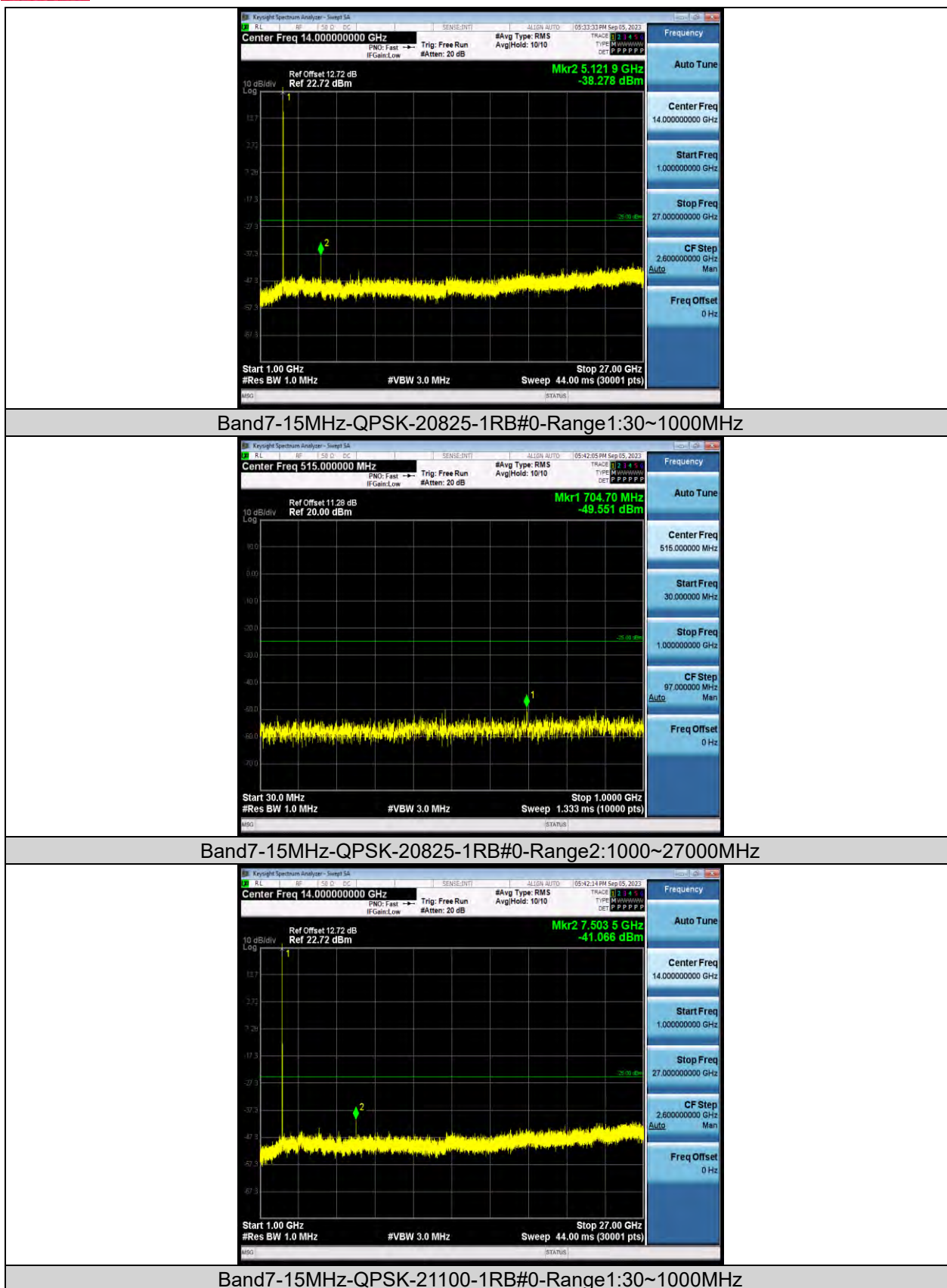
Band7-10MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz

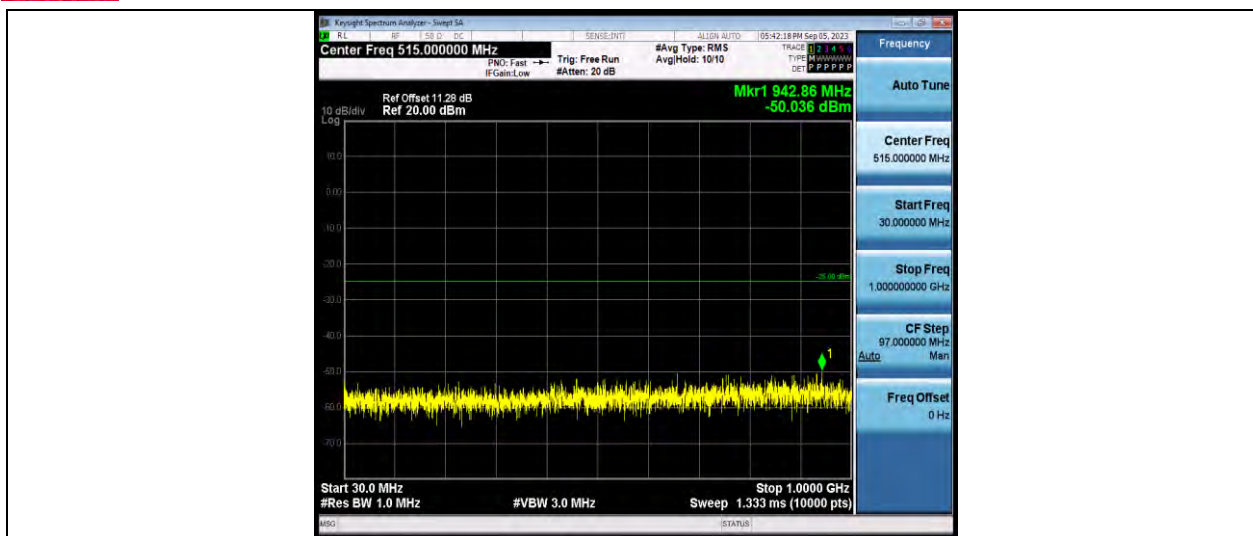


Band7-10MHz-QPSK-21400-1RB#0-Range1:30~1000MHz



Band7-10MHz-QPSK-21400-1RB#0-Range2:1000~27000MHz

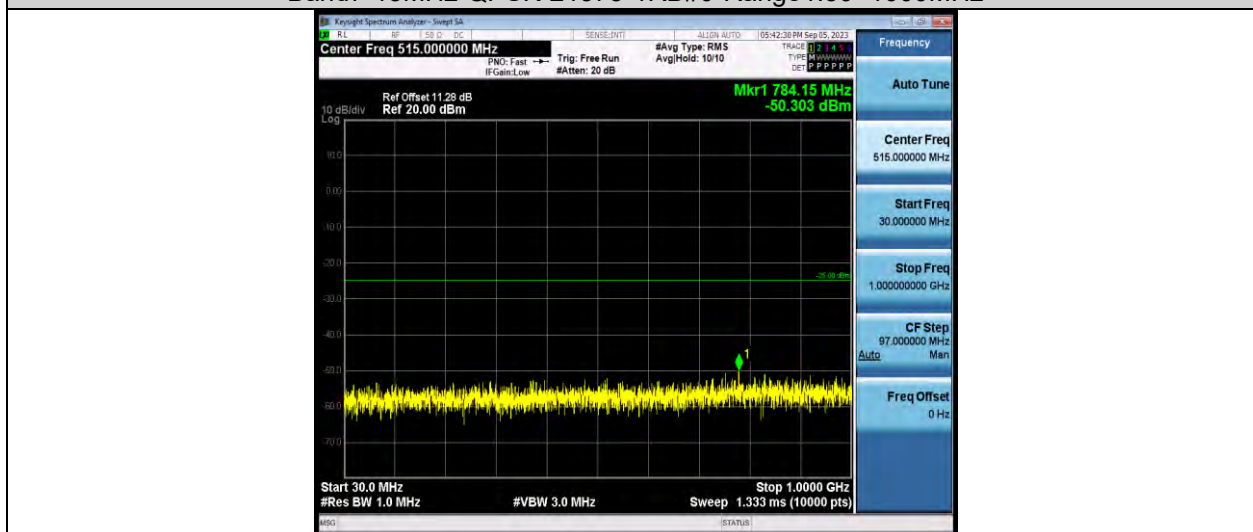




Band7-15MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



Band7-15MHz-QPSK-21375-1RB#0-Range1:30~1000MHz

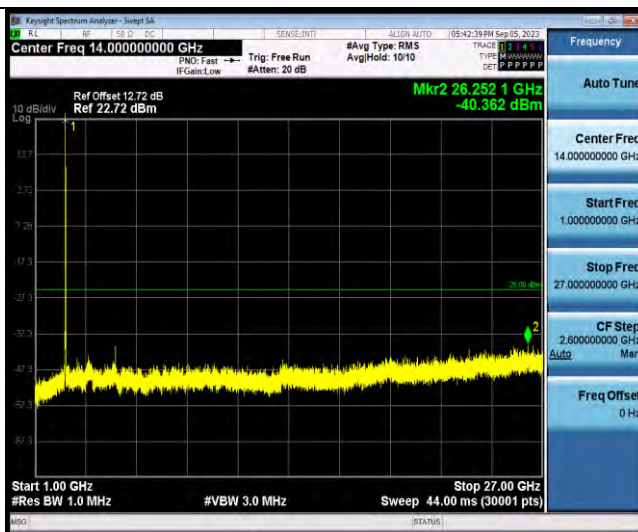


Band7-15MHz-QPSK-21375-1RB#0-Range2:1000~27000MHz

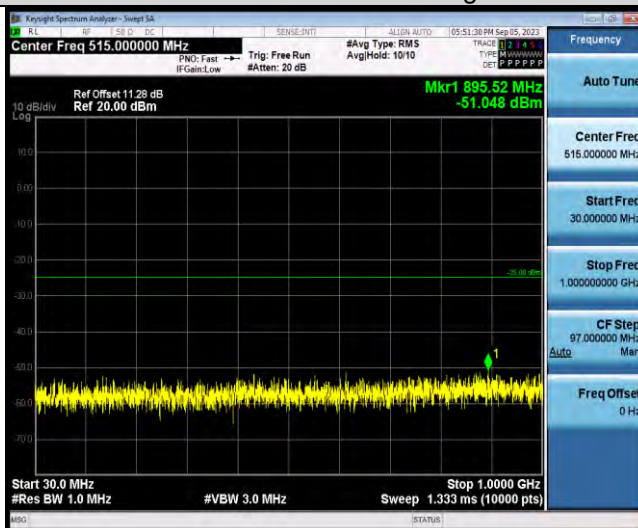


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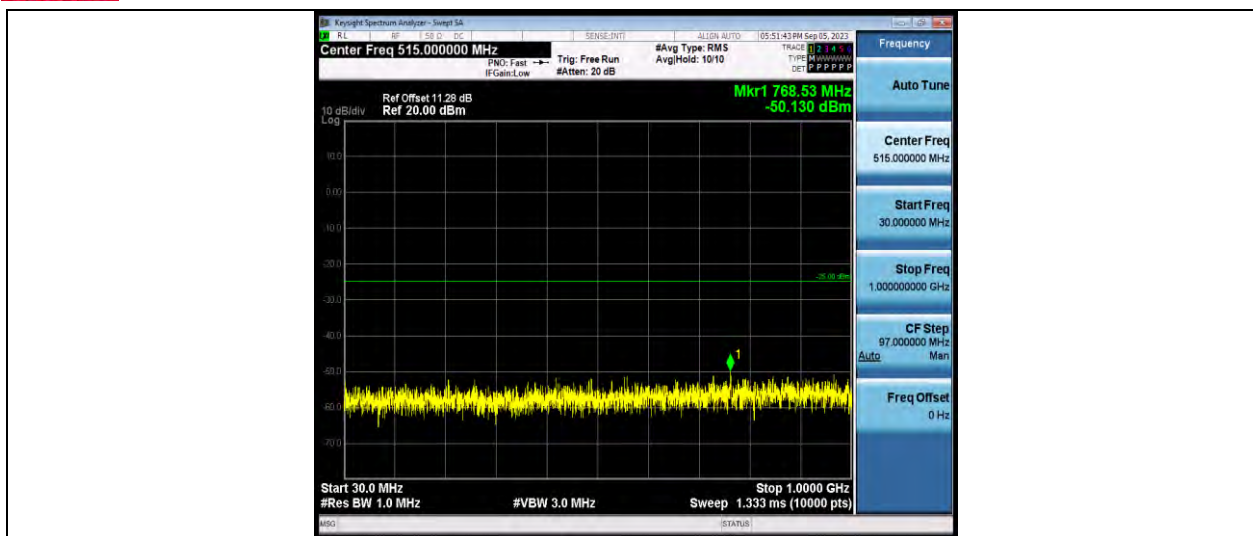
Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~27000MHz



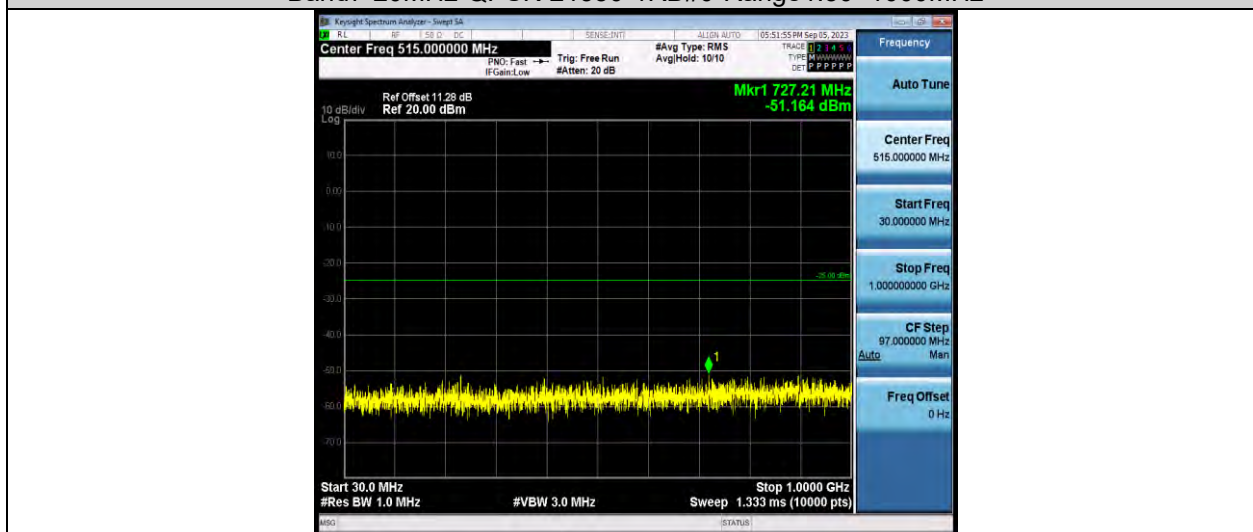
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz

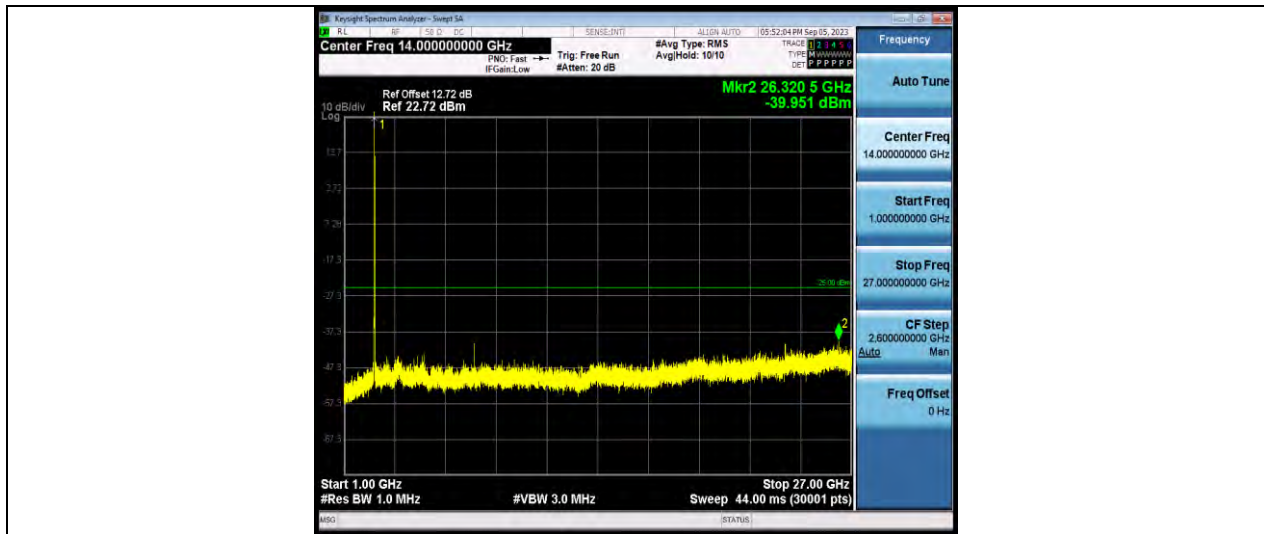


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~27000MHz



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Test Report No.: W7L-P23070009RF03





Test Report No.: W7L-P23070009RF03

FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-8.37	-0.003335	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-9.14	-0.003641	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-5.26	-0.002096	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	3.08	0.001215	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-25.94	-0.010233	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-10.71	-0.004225	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-10.21	-0.003988	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	26.76	0.010453	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	7.70	0.003008	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-6.24	-0.002486	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	10.94	0.004359	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	-8.01	-0.003191	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-8.43	-0.003359	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-8.50	-0.003386	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-8.31	-0.003311	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-4.68	-0.001865	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	6.67	0.002657	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	13.15	0.005239	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	10.34	0.004079	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-6.59	-0.002600	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-7.90	-0.003116	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	6.34	0.002501	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	6.69	0.002639	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	10.13	0.003996	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	9.74	0.003842	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-6.11	-0.002410	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	8.31	0.003278	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	4.61	0.001801	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-7.24	-0.002828	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	7.61	0.002973	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	6.07	0.002371	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	10.61	0.004145	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	6.68	0.002609	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	10.54	0.004117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-6.04	-0.002359	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-8.01	-0.003129	±2.5	PASS

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
fL- MAX(Δf)	2500.990973	≥2500	PASS
fH+ MAX(Δf)	2568.962527	≤2570	

Note : 1. |MAX(Δf)| = Max Deviation

2. fL = Occ low channel fL(-13dBm/MHz)

3. fH = Occ High channel fH(-13dBm/MHz)

4. |MAX(Δf)| = 26.76 Hz.



Test Report No.: W7L-P23070009RF03

LTE BAND12

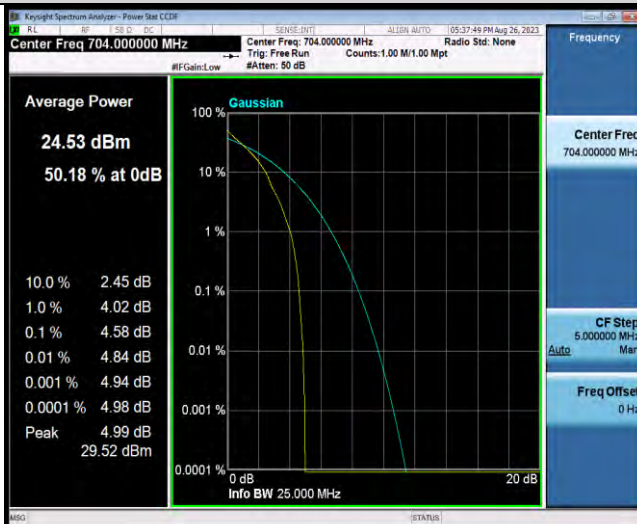
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

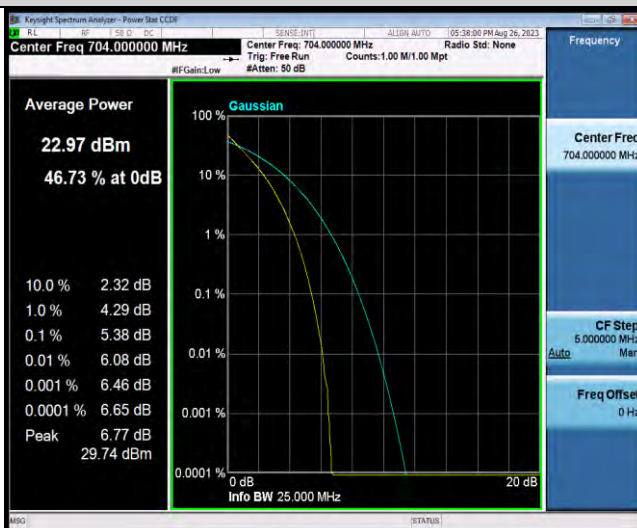
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	4.58	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	5.17	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.19	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	5.27	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.28	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.25	13	PASS
Band12	10MHz	16QAM	23060	27RB#0	6.05	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	6.10	13	PASS
Band12	10MHz	16QAM	23095	27RB#0	6.05	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	6.47	13	PASS
Band12	10MHz	16QAM	23130	27RB#0	6.07	13	PASS

Test Graphs

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



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

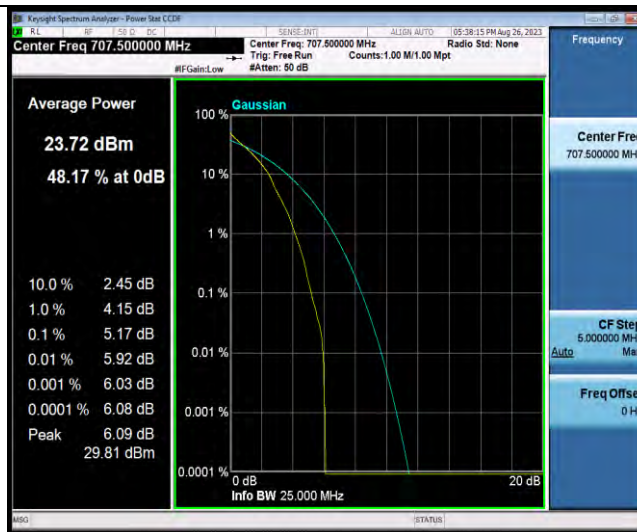


Band12-10MHz-QPSK-23095-1RB#0

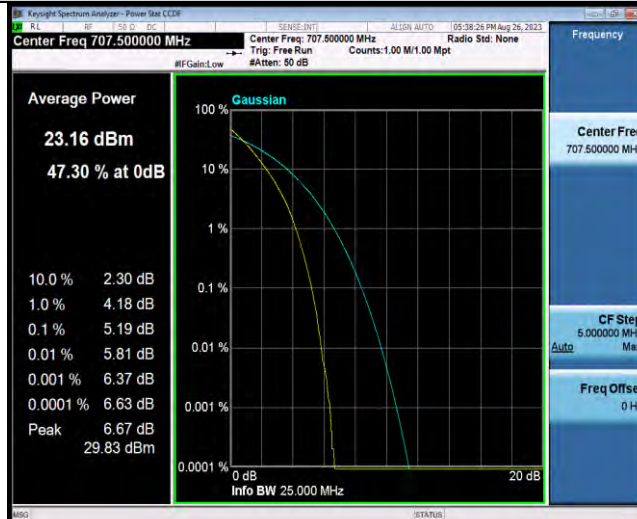


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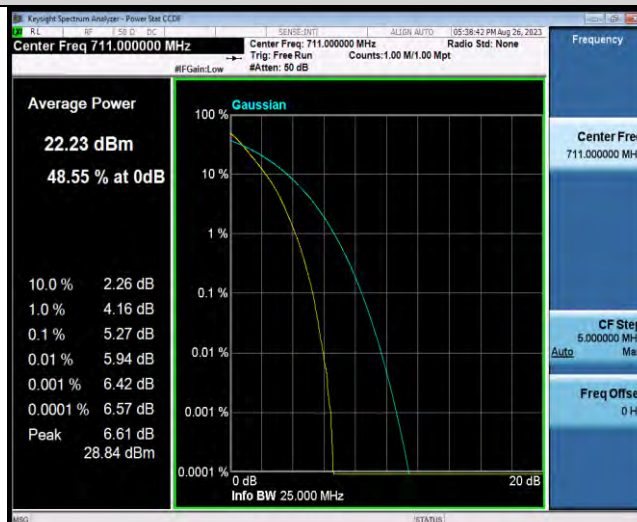
Test Report No.: W7L-P23070009RF03



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



Band12-10MHz-QPSK-23130-1RB#0

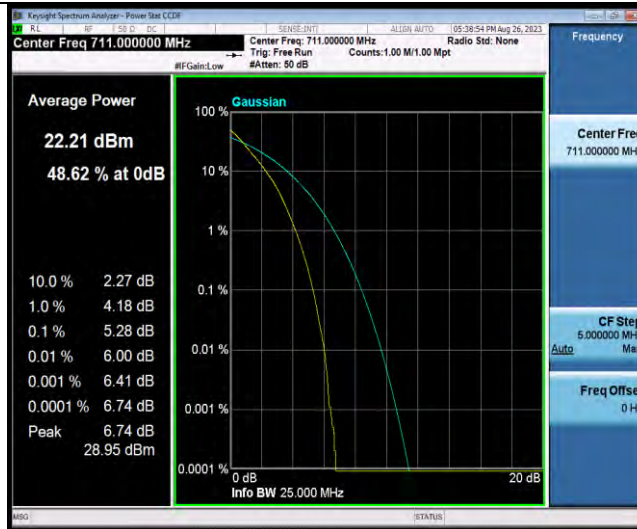


Band12-10MHz-QPSK-23130-50RB#0

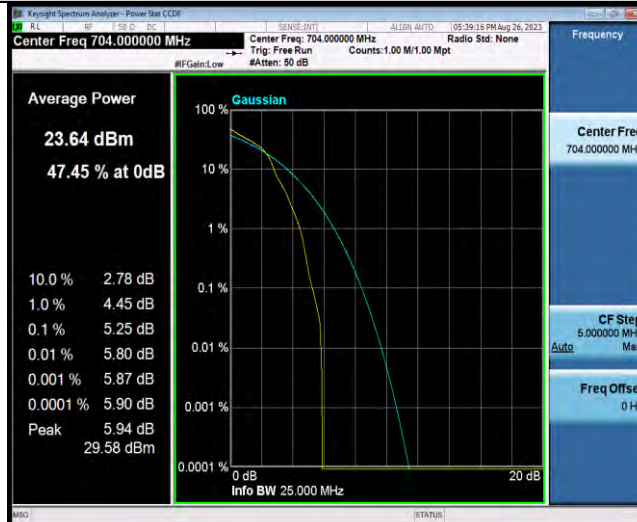


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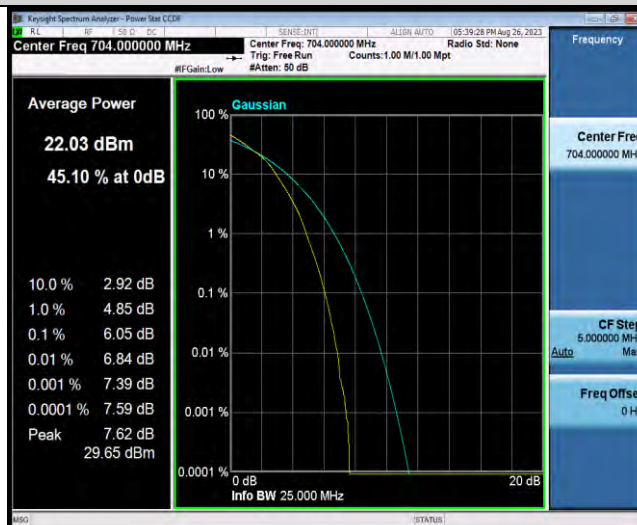
Test Report No.: W7L-P23070009RF03



Band12-10MHz-16QAM-23060-1RB#0



Band12-10MHz-16QAM-23060-27RB#0



Band12-10MHz-16QAM-23095-1RB#0

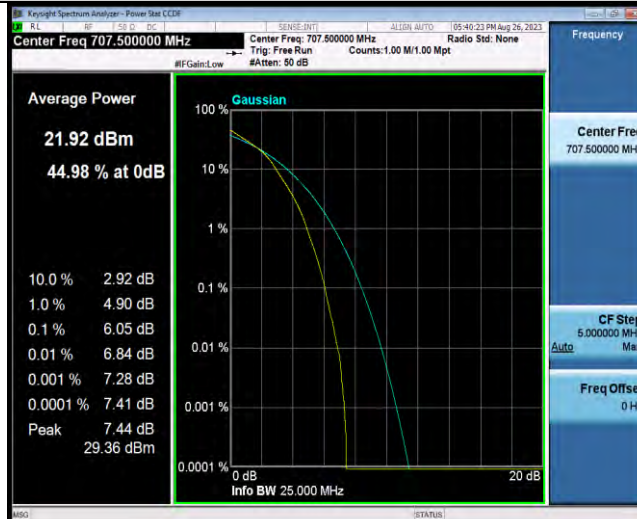


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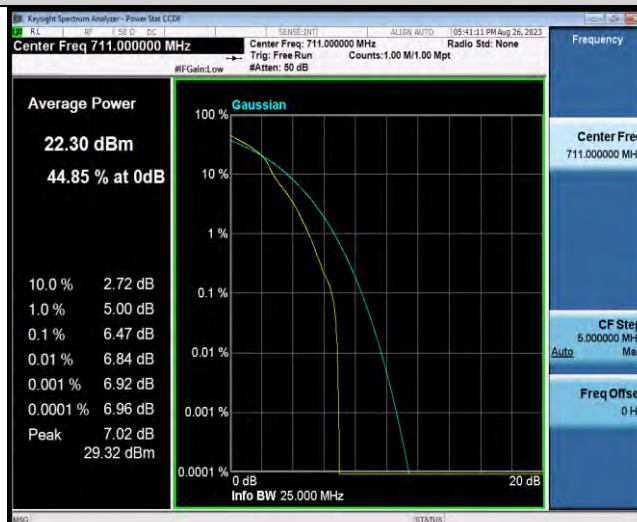
Test Report No.: W7L-P23070009RF03



Band12-10MHz-16QAM-23095-27RB#0



Band12-10MHz-16QAM-23130-1RB#0

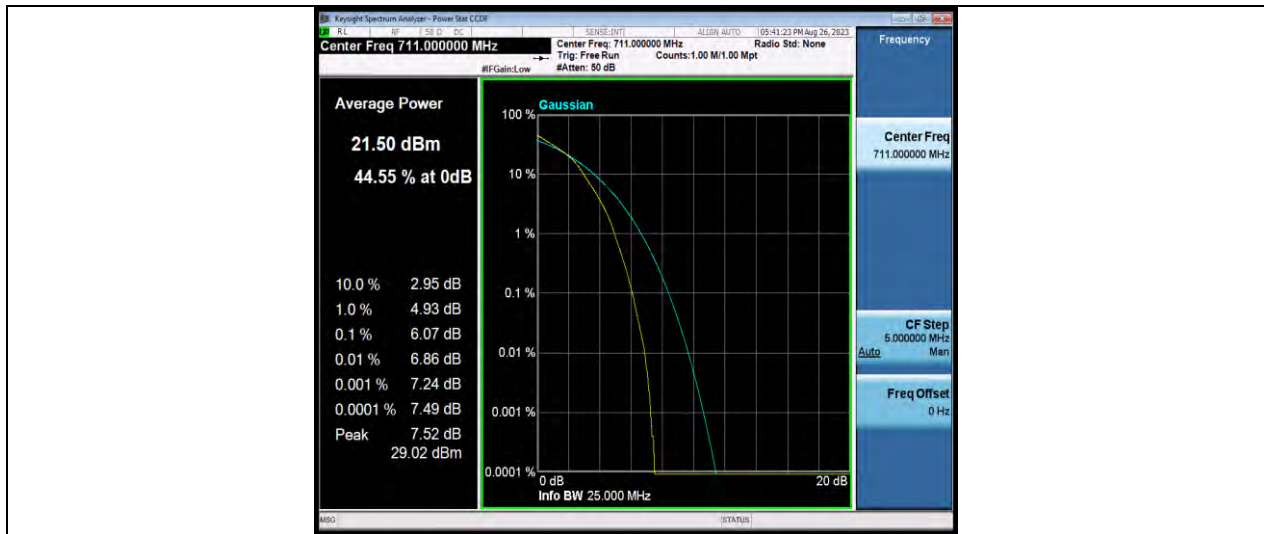


Band12-10MHz-16QAM-23130-27RB#0



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Test Report No.: W7L-P23070009RF03

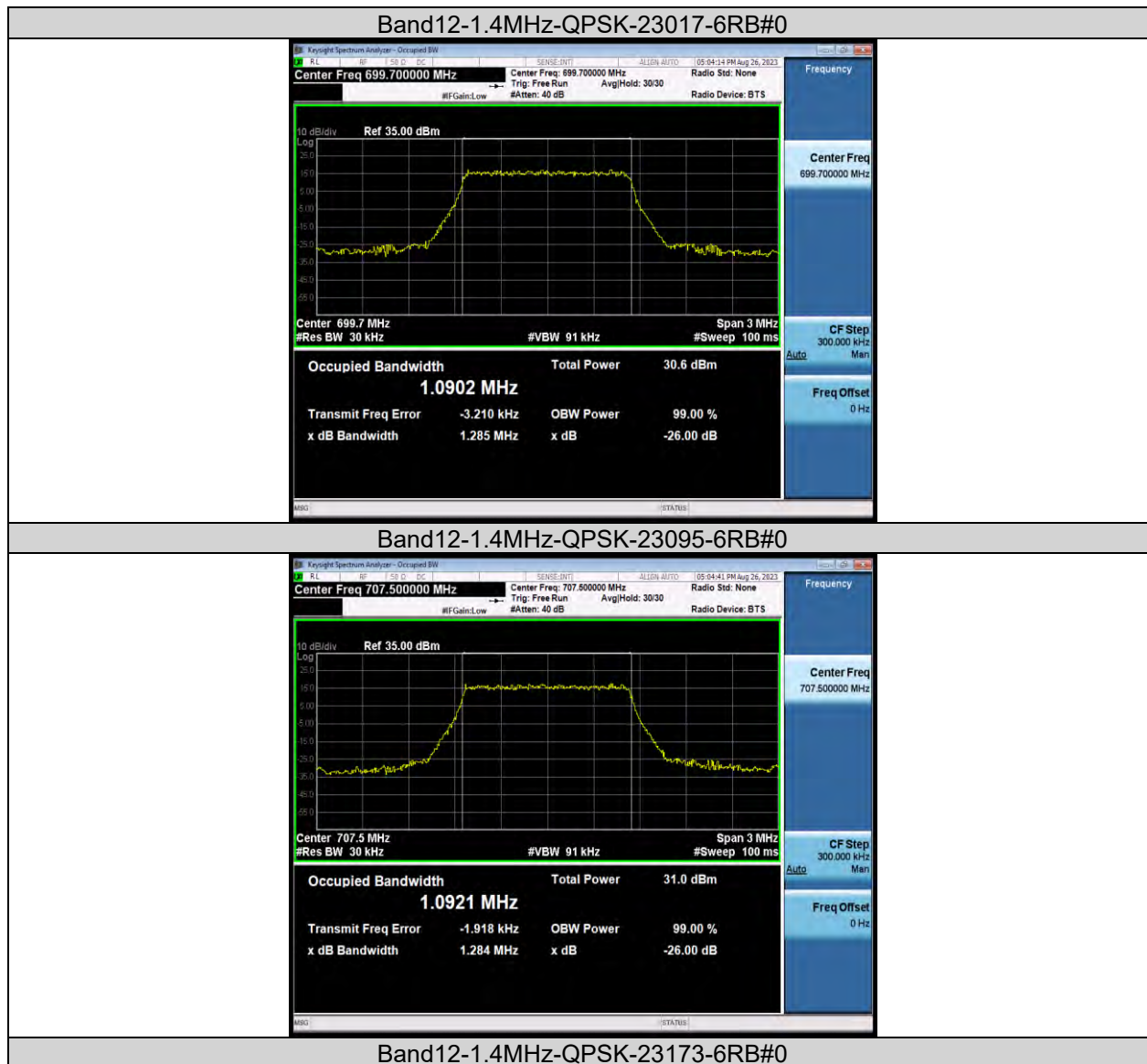


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0902	1.285	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0921	1.284	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0943	1.291	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0954	1.296	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0939	1.299	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0906	1.284	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6986	2.996	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6984	3.028	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7114	3.032	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6919	2.998	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6961	2.975	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7081	3.034	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4958	5.026	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5039	5.089	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5186	5.088	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5004	5.026	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5109	5.071	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5046	5.126	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0180	10.26	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9874	10.24	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9647	10.14	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.8496	5.664	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.8668	5.640	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.8478	5.508	PASS

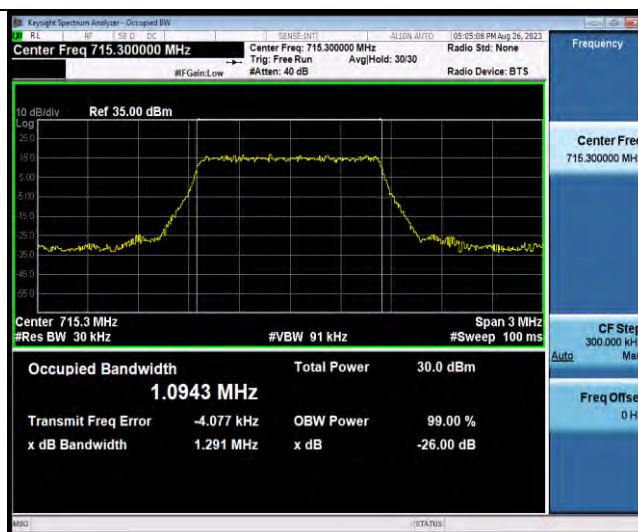
Test Graphs





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Test Report No.: W7L-P23070009RF03



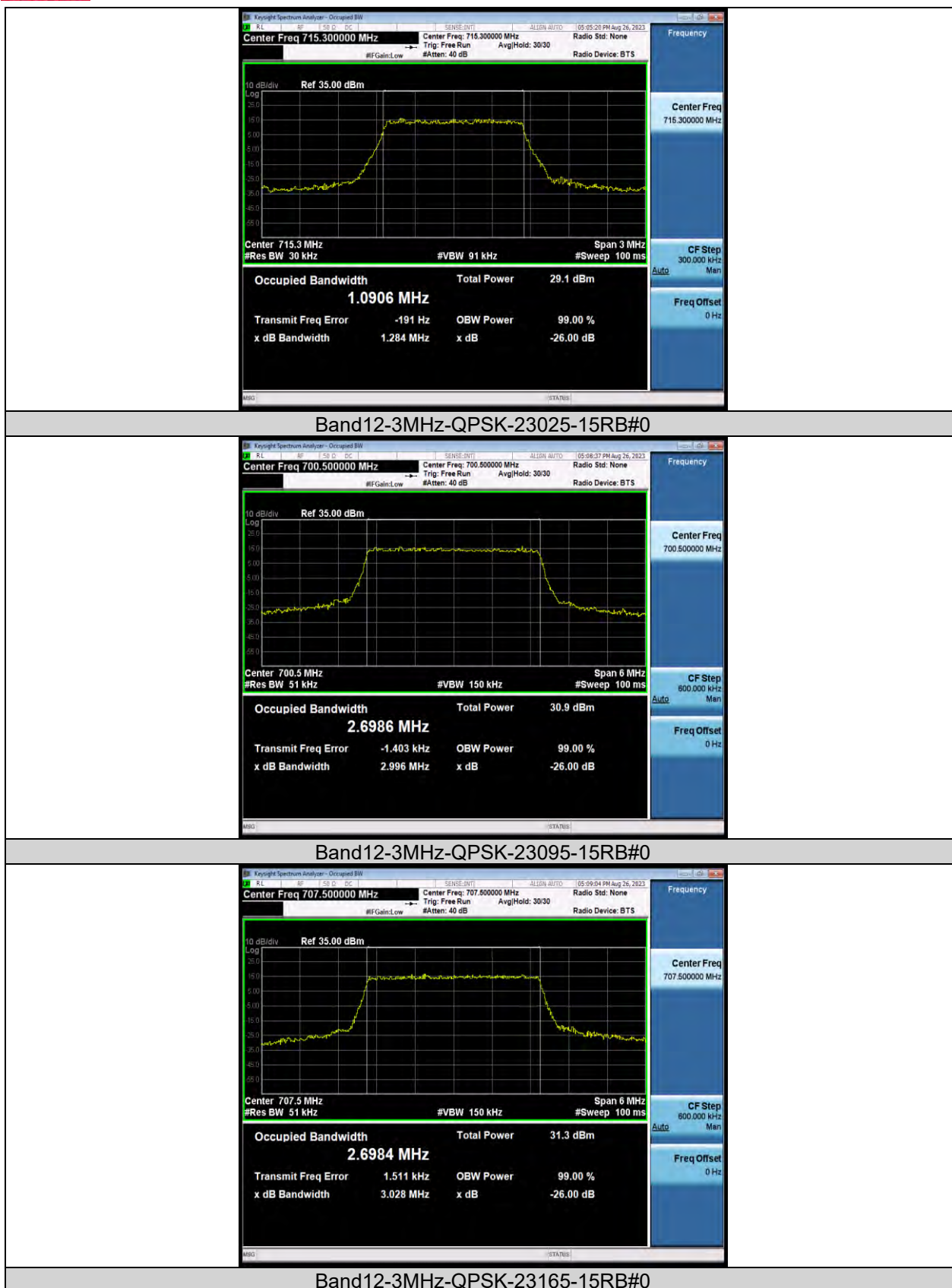
Band12-1.4MHz-16QAM-23017-6RB#0

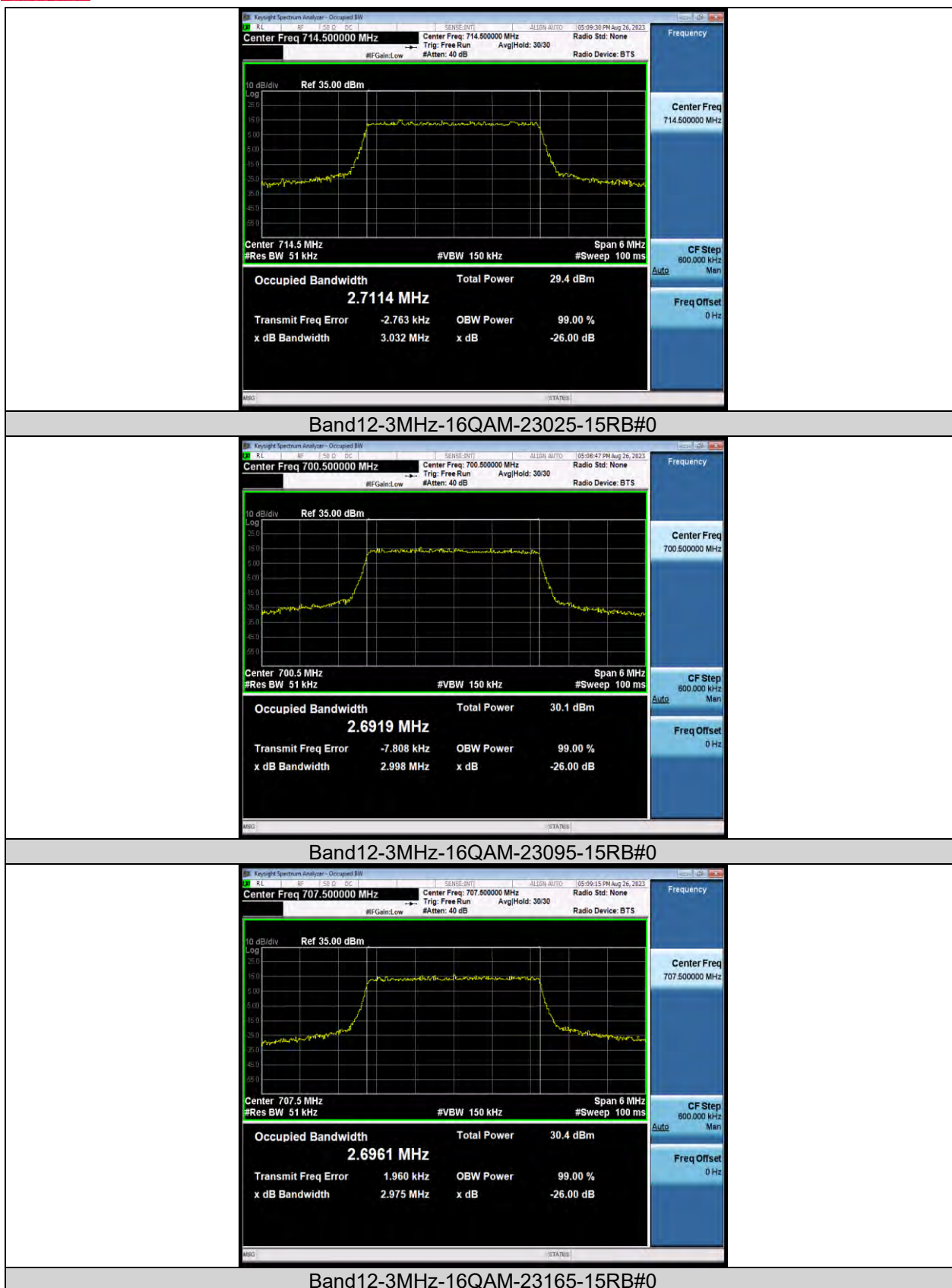


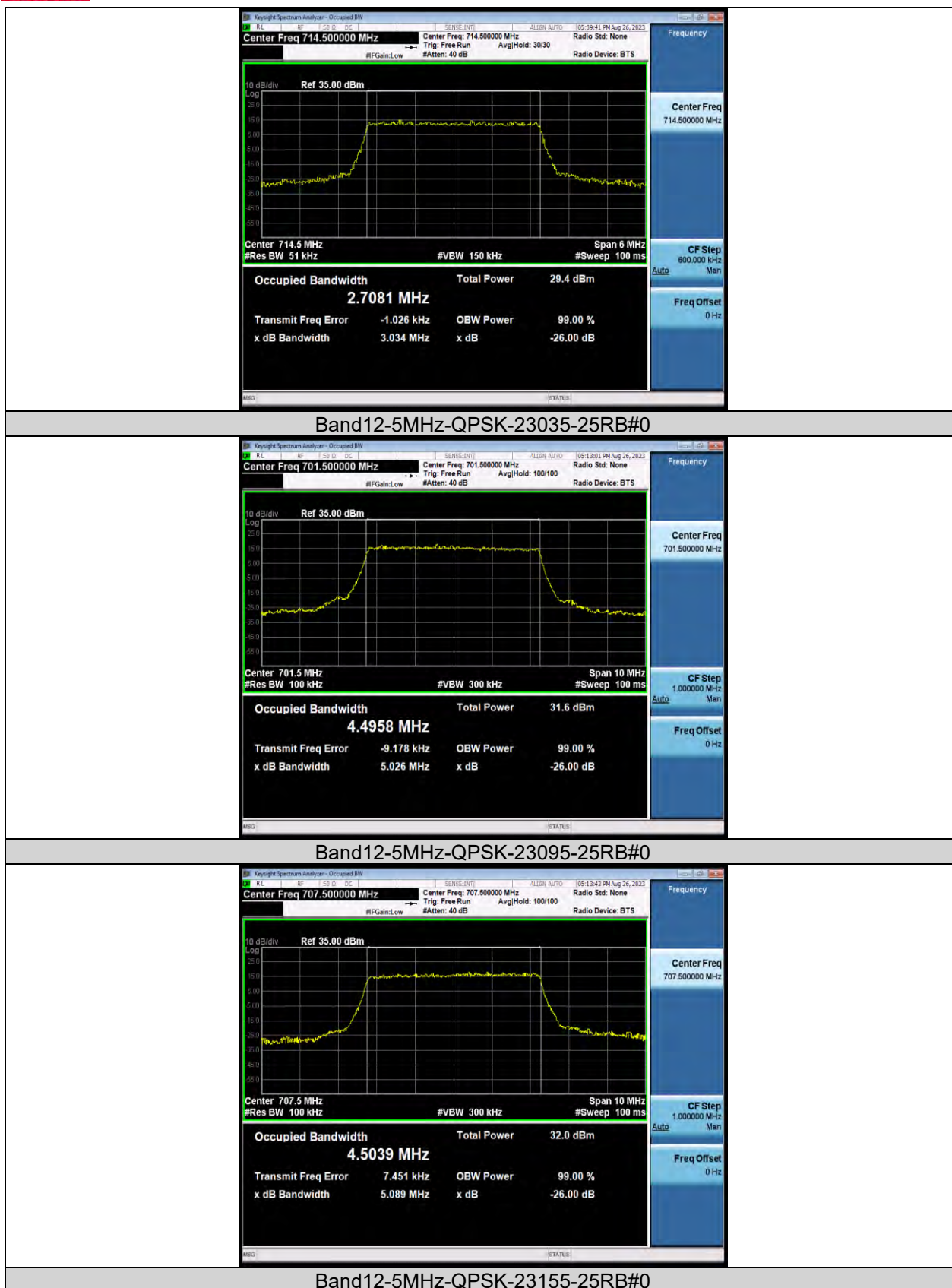
Band12-1.4MHz-16QAM-23095-6RB#0



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

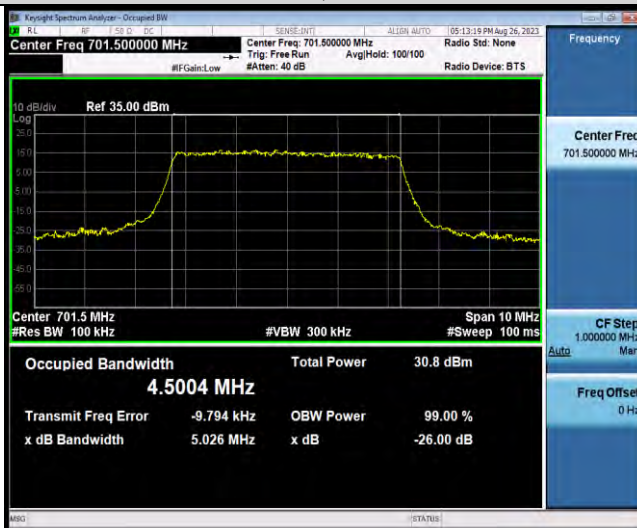








Band12-5MHz-16QAM-23035-25RB#0



Band12-5MHz-16QAM-23095-25RB#0



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



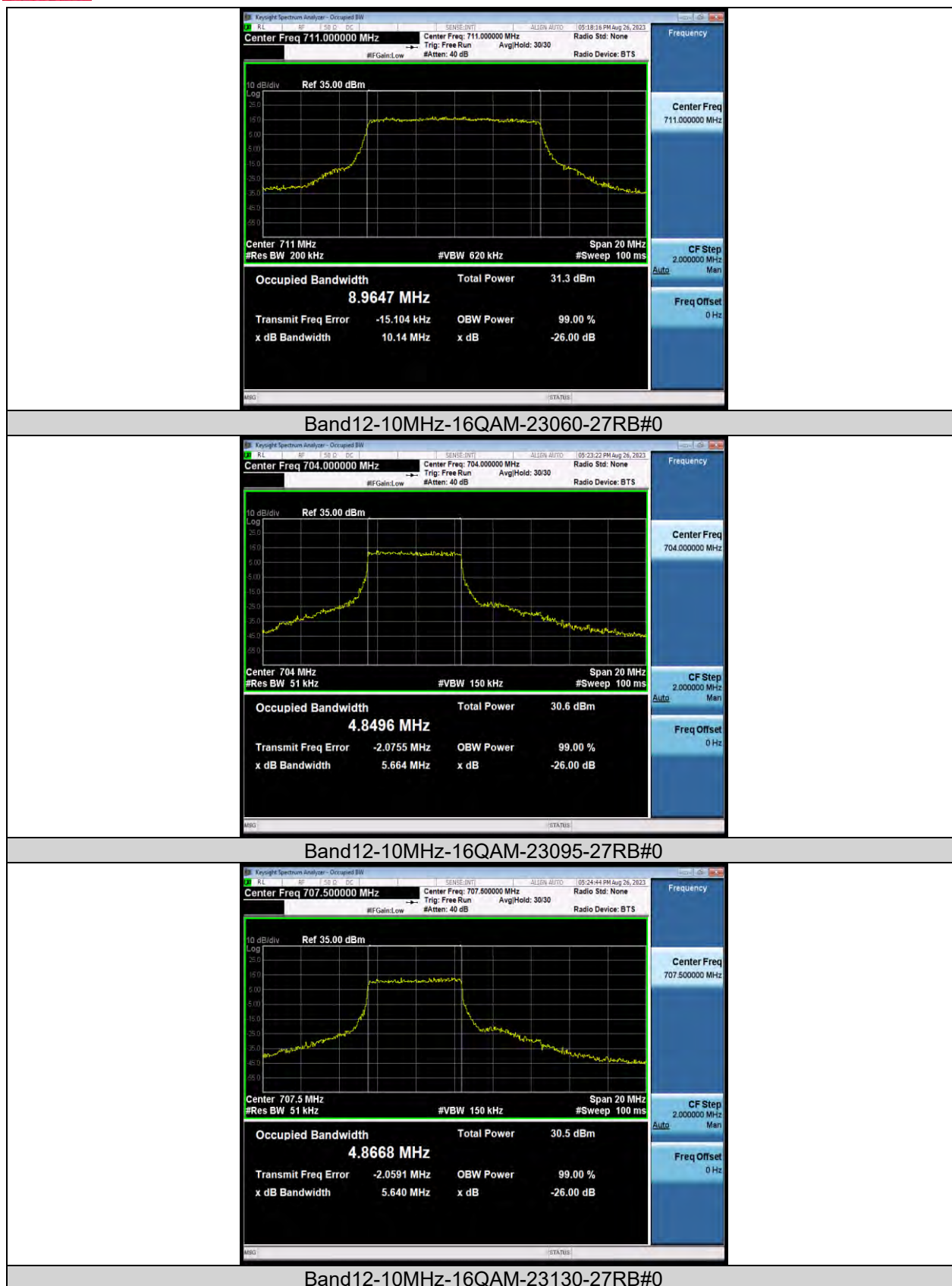
Band12-10MHz-QPSK-23060-50RB#0



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



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





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Test Report No.: W7L-P23070009RF03



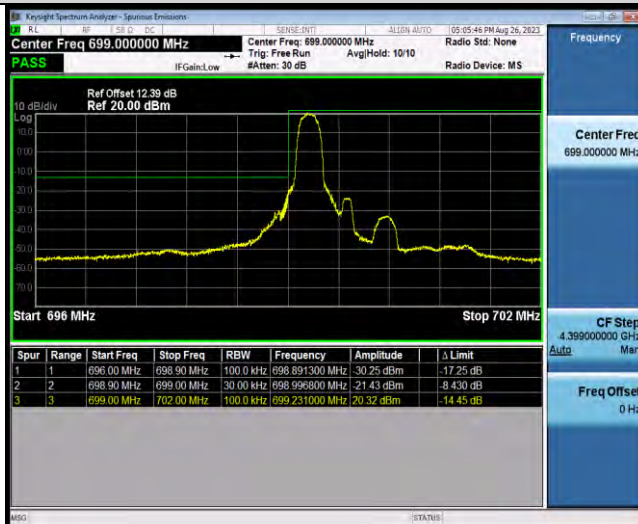
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-30.25,-21.43	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-33.99,-28.56	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-21.95,-32.34	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-31.49,-35.42	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-30.40,-22.40	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.45,-30.01	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.71,-32.98	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-31.57,-34.31	PASS
Band12	3MHz	QPSK	23025	1RB#0	-29.19,-16.45	PASS
Band12	3MHz	QPSK	23025	15RB#0	-35.48,-28.83	PASS
Band12	3MHz	QPSK	23165	1RB#14	-17.95,-30.08	PASS
Band12	3MHz	QPSK	23165	15RB#0	-32.23,-36.07	PASS
Band12	3MHz	16QAM	23025	1RB#0	-27.63,-17.21	PASS
Band12	3MHz	16QAM	23025	15RB#0	-34.91,-27.34	PASS
Band12	3MHz	16QAM	23165	1RB#14	-18.00,-29.20	PASS
Band12	3MHz	16QAM	23165	15RB#0	-31.68,-37.15	PASS
Band12	5MHz	QPSK	23035	1RB#0	-29.41,-18.04	PASS
Band12	5MHz	QPSK	23035	25RB#0	-35.36,-31.60	PASS
Band12	5MHz	QPSK	23155	1RB#24	-19.58,-32.90	PASS
Band12	5MHz	QPSK	23155	25RB#0	-33.62,-37.69	PASS
Band12	5MHz	16QAM	23035	1RB#0	-30.41,-19.55	PASS
Band12	5MHz	16QAM	23035	25RB#0	-36.76,-33.43	PASS
Band12	5MHz	16QAM	23155	1RB#24	-20.11,-31.09	PASS
Band12	5MHz	16QAM	23155	25RB#0	-35.12,-39.49	PASS
Band12	10MHz	QPSK	23060	1RB#0	-34.89,-22.63	PASS
Band12	10MHz	QPSK	23060	50RB#0	-36.03,-35.84	PASS
Band12	10MHz	QPSK	23130	1RB#49	-24.40,-36.14	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.60,-40.46	PASS
Band12	10MHz	16QAM	23060	1RB#0	-34.36,-23.21	PASS
Band12	10MHz	16QAM	23060	27RB#0	-34.99,-34.82	PASS
Band12	10MHz	16QAM	23130	1RB#49	-25.06,-36.55	PASS
Band12	10MHz	16QAM	23130	27RB#23	-36.03,-39.08	PASS

Test Graphs

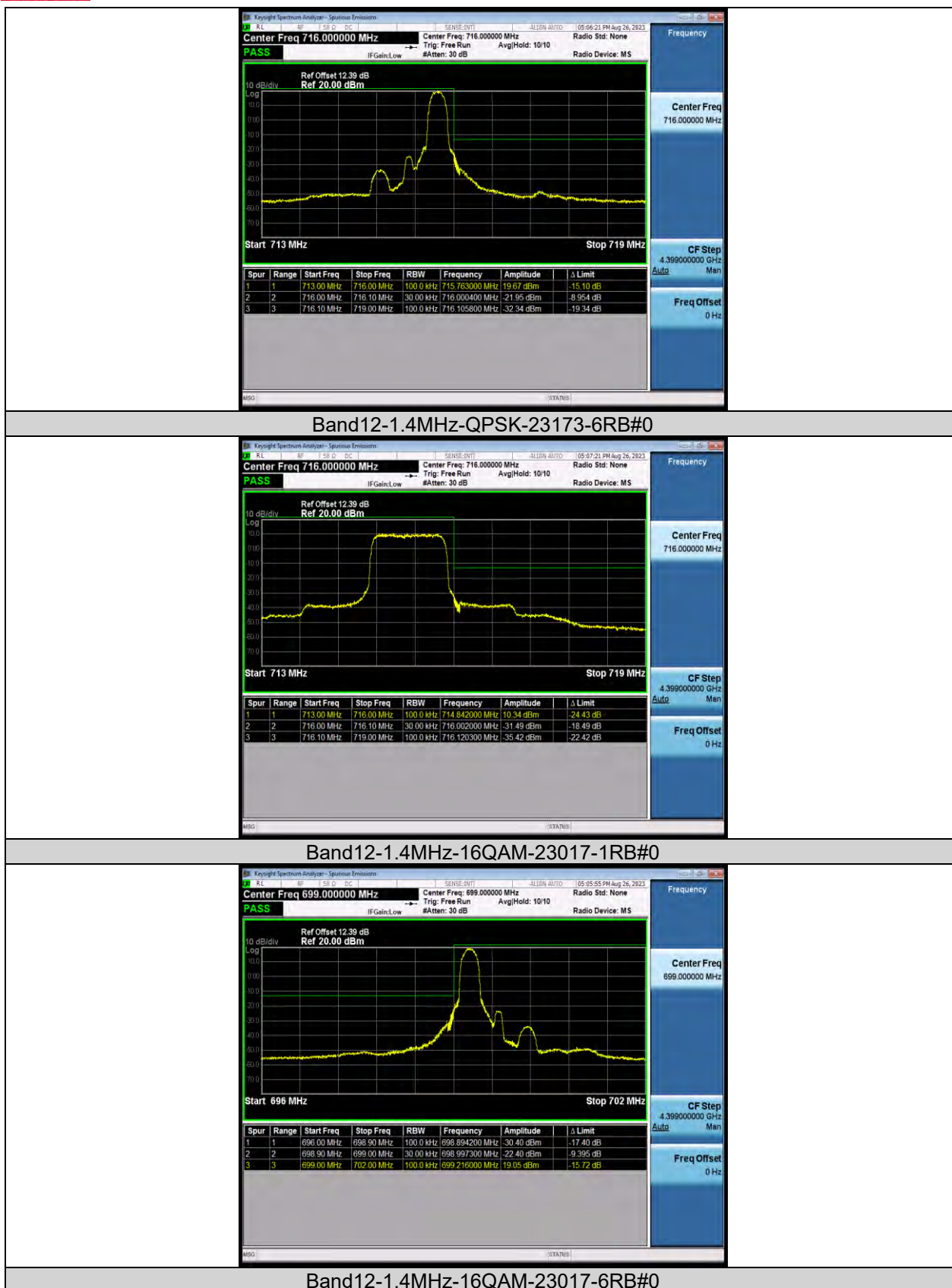
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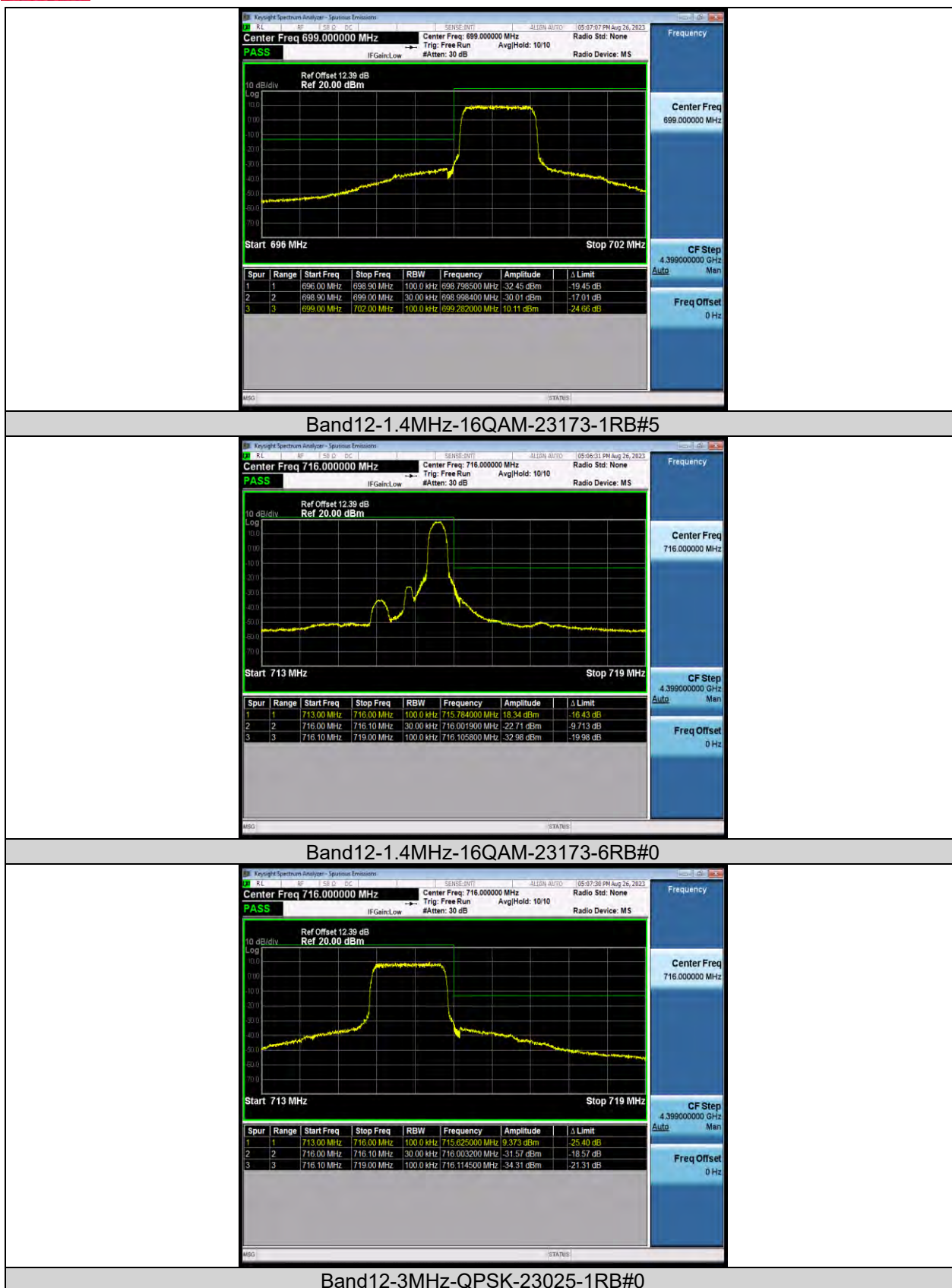


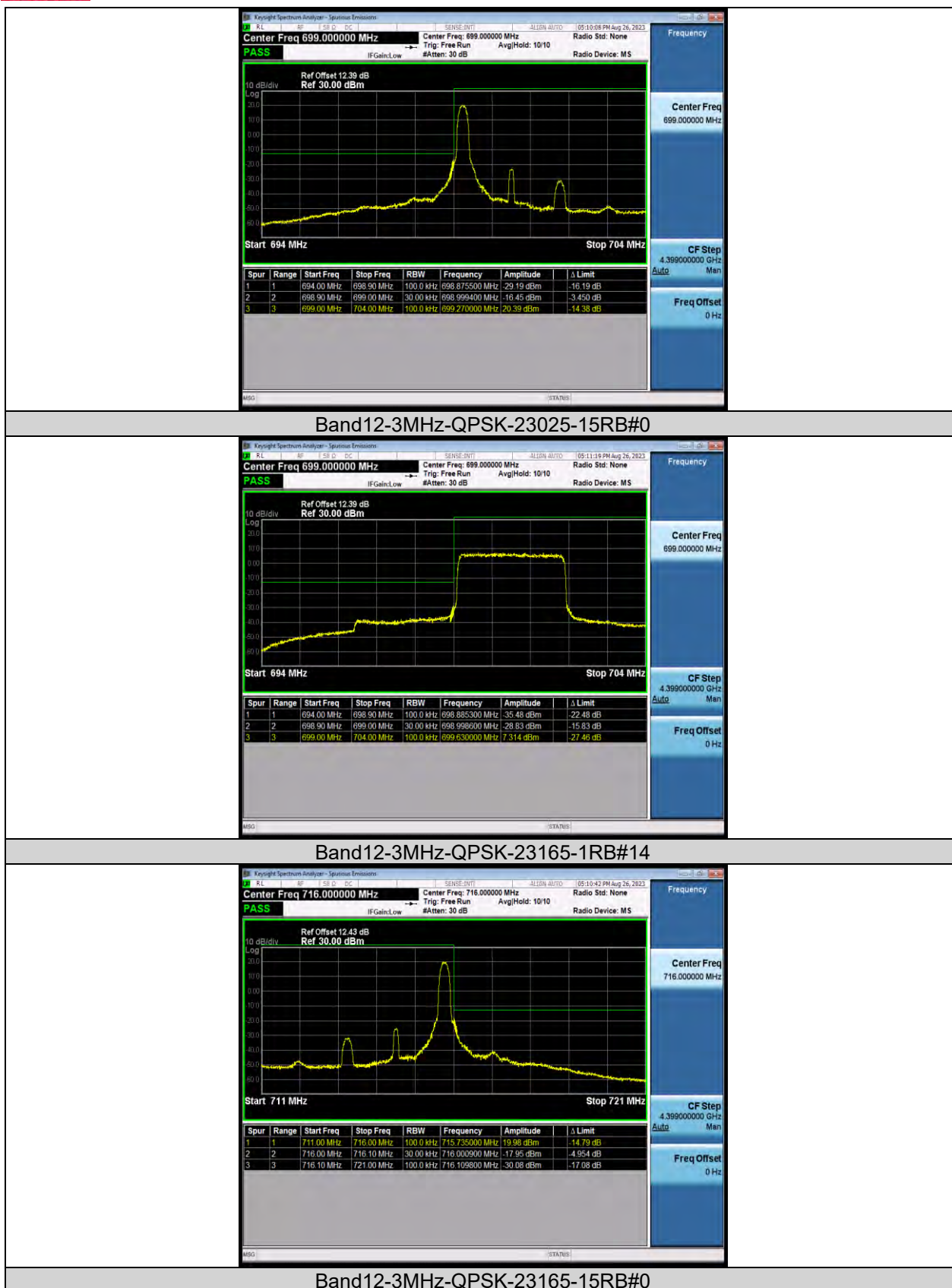
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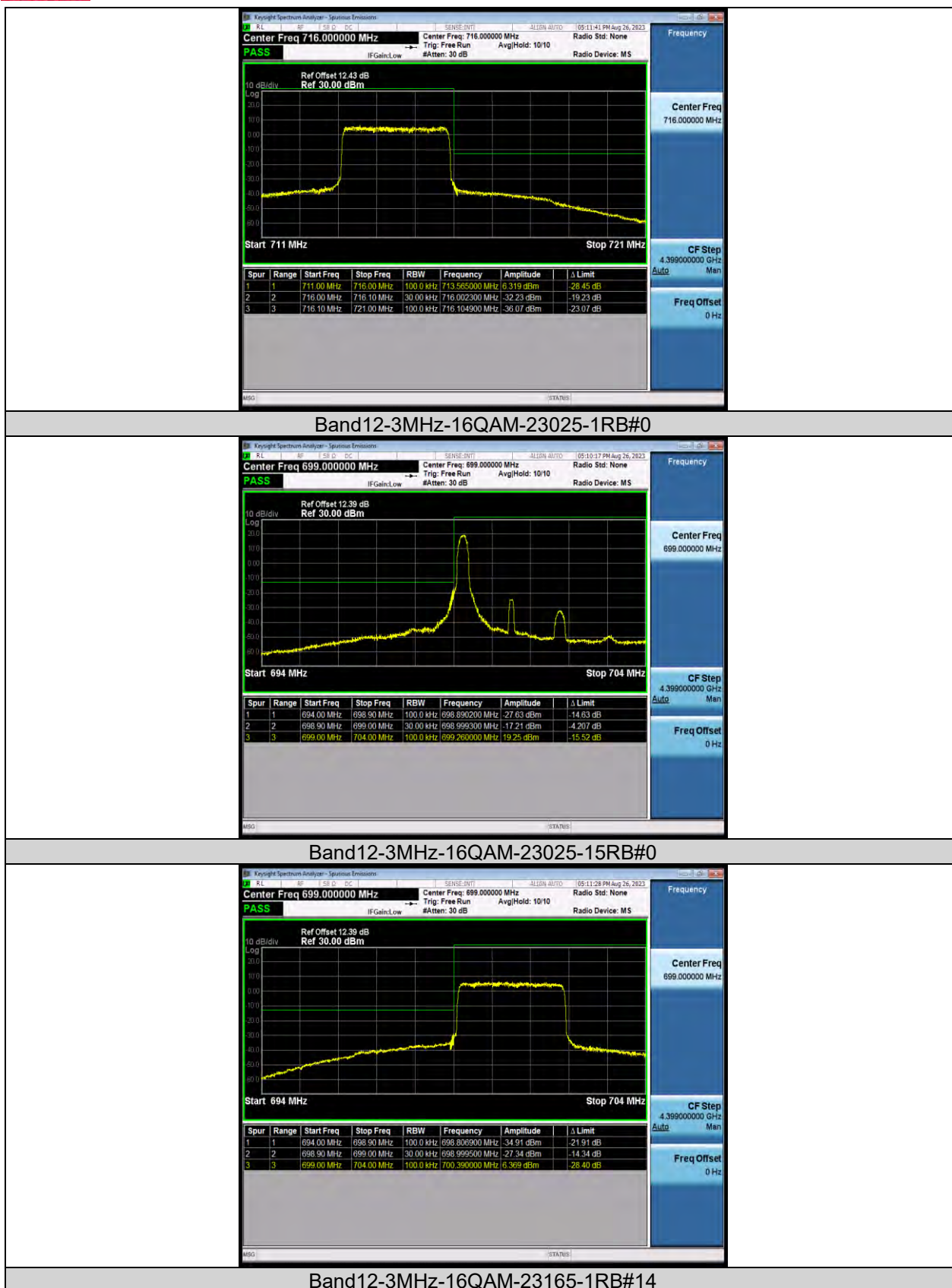


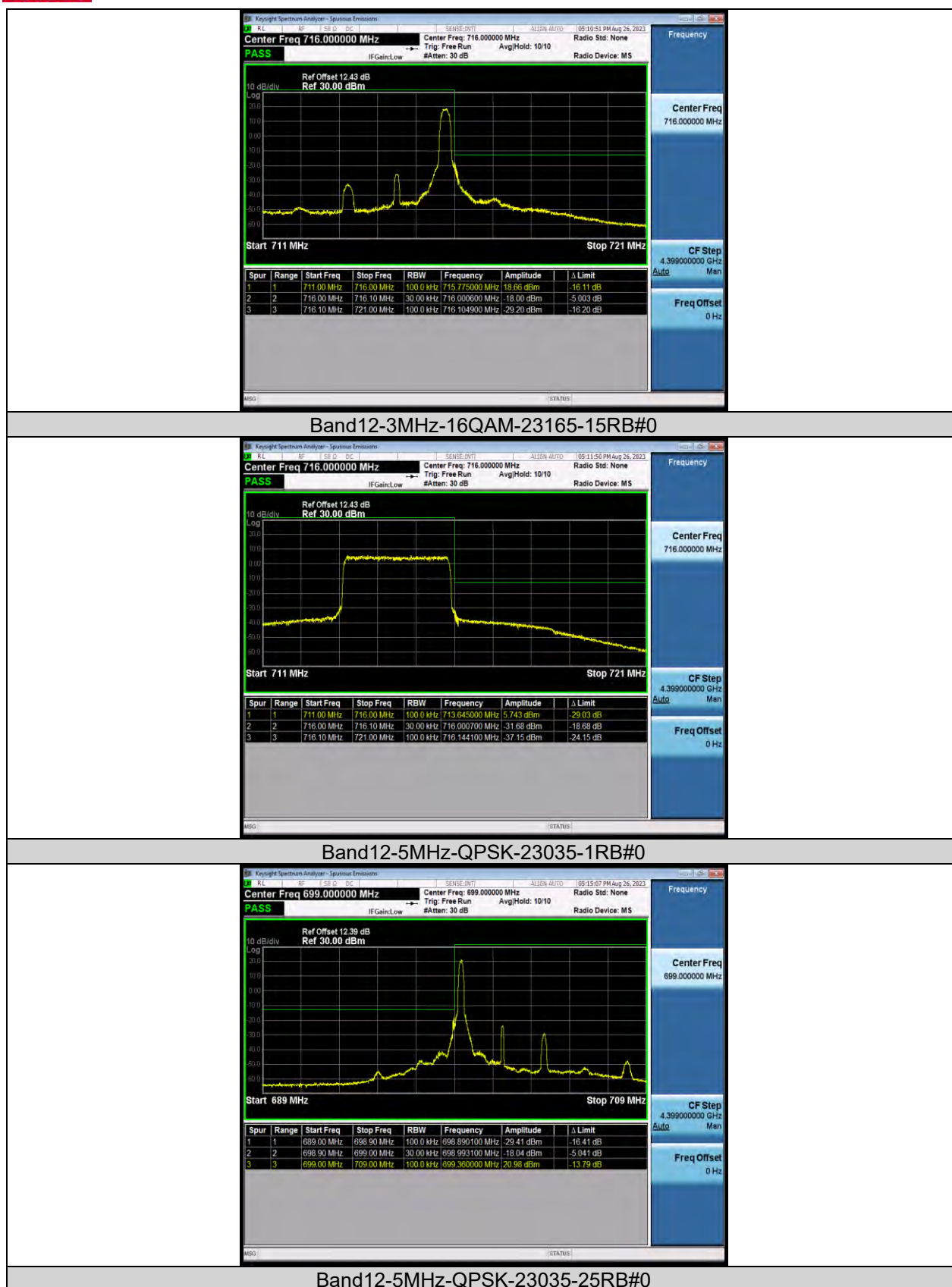
Band12-1.4MHz-QPSK-23173-1RB#5

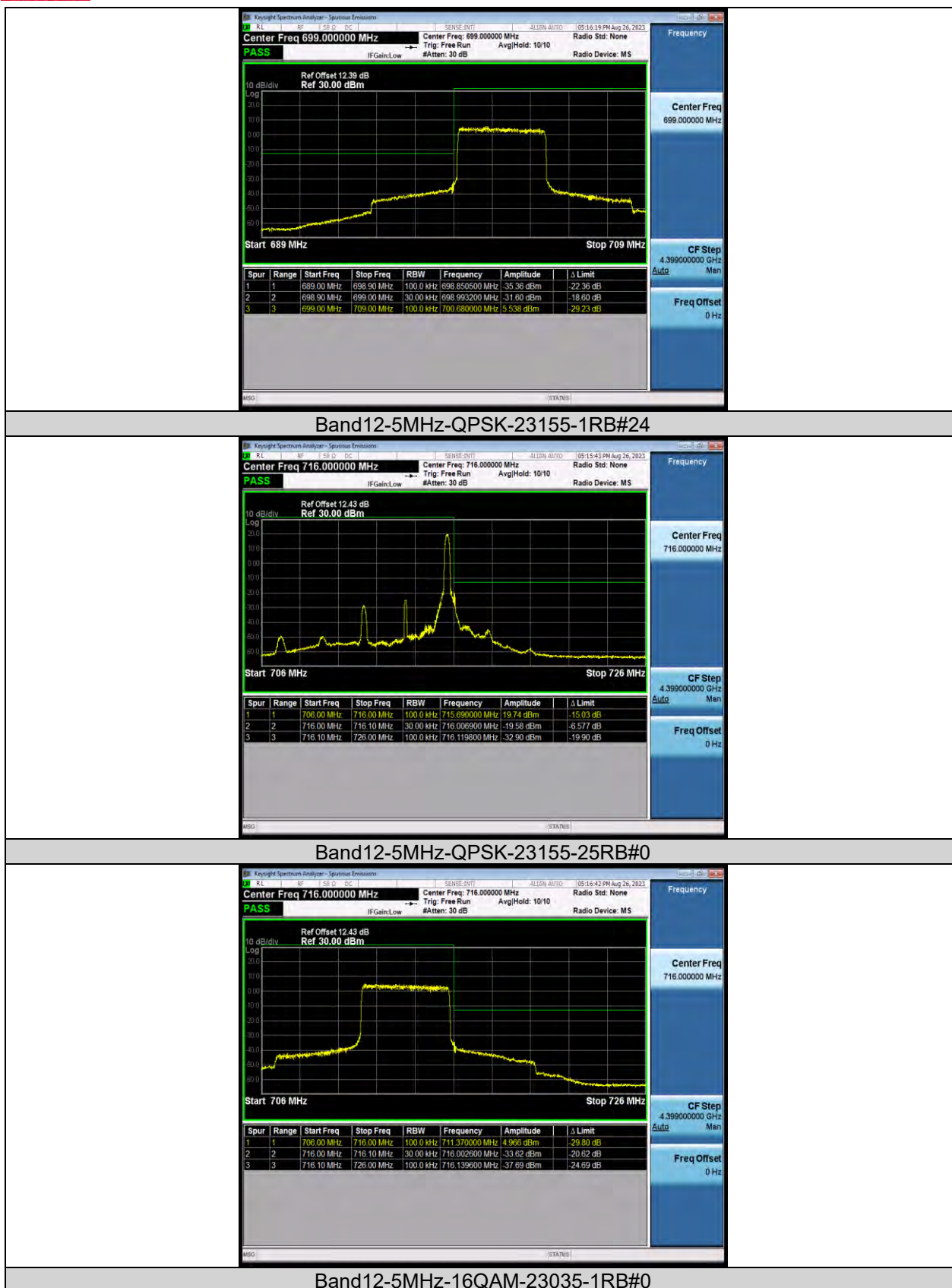


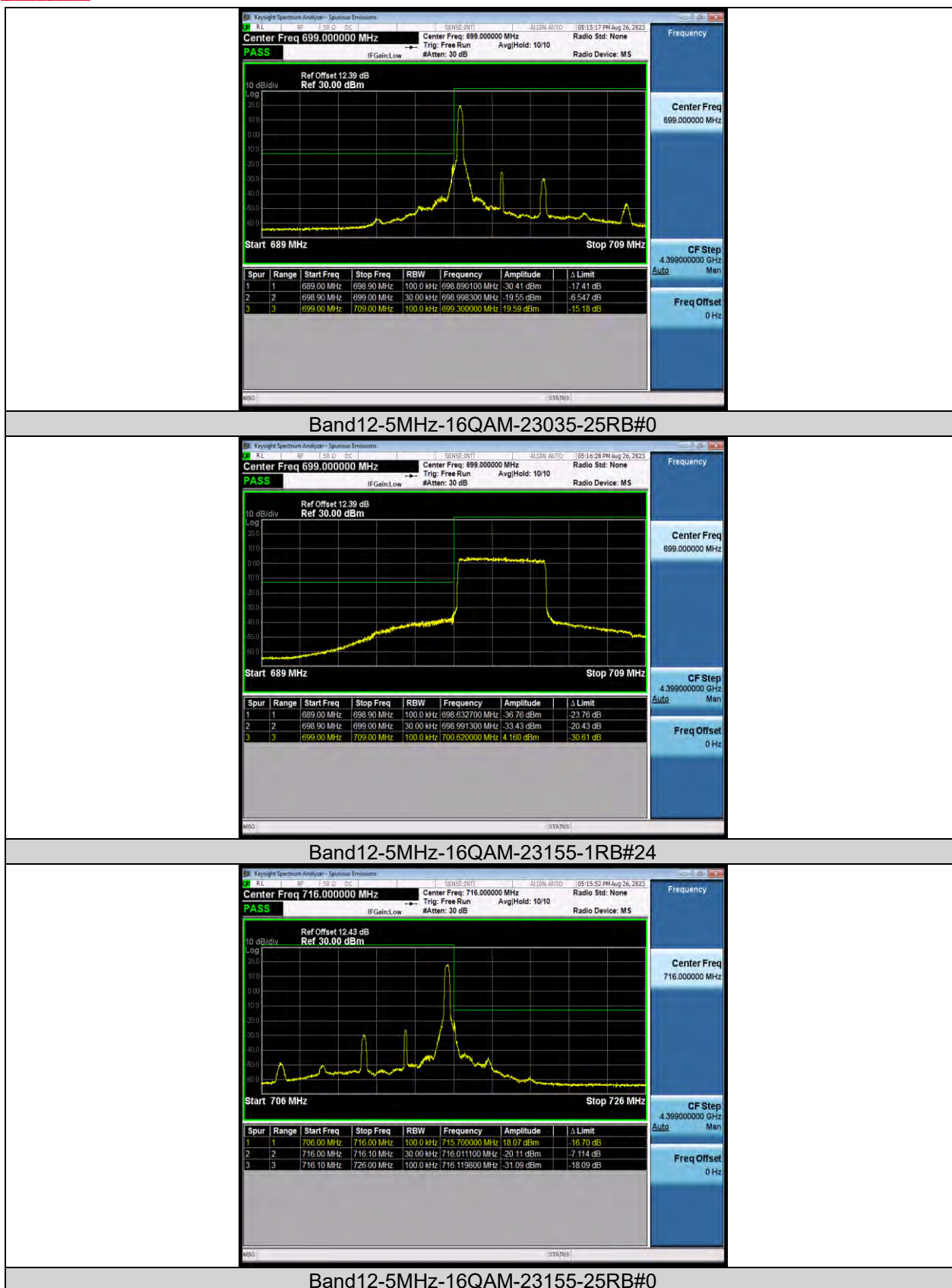


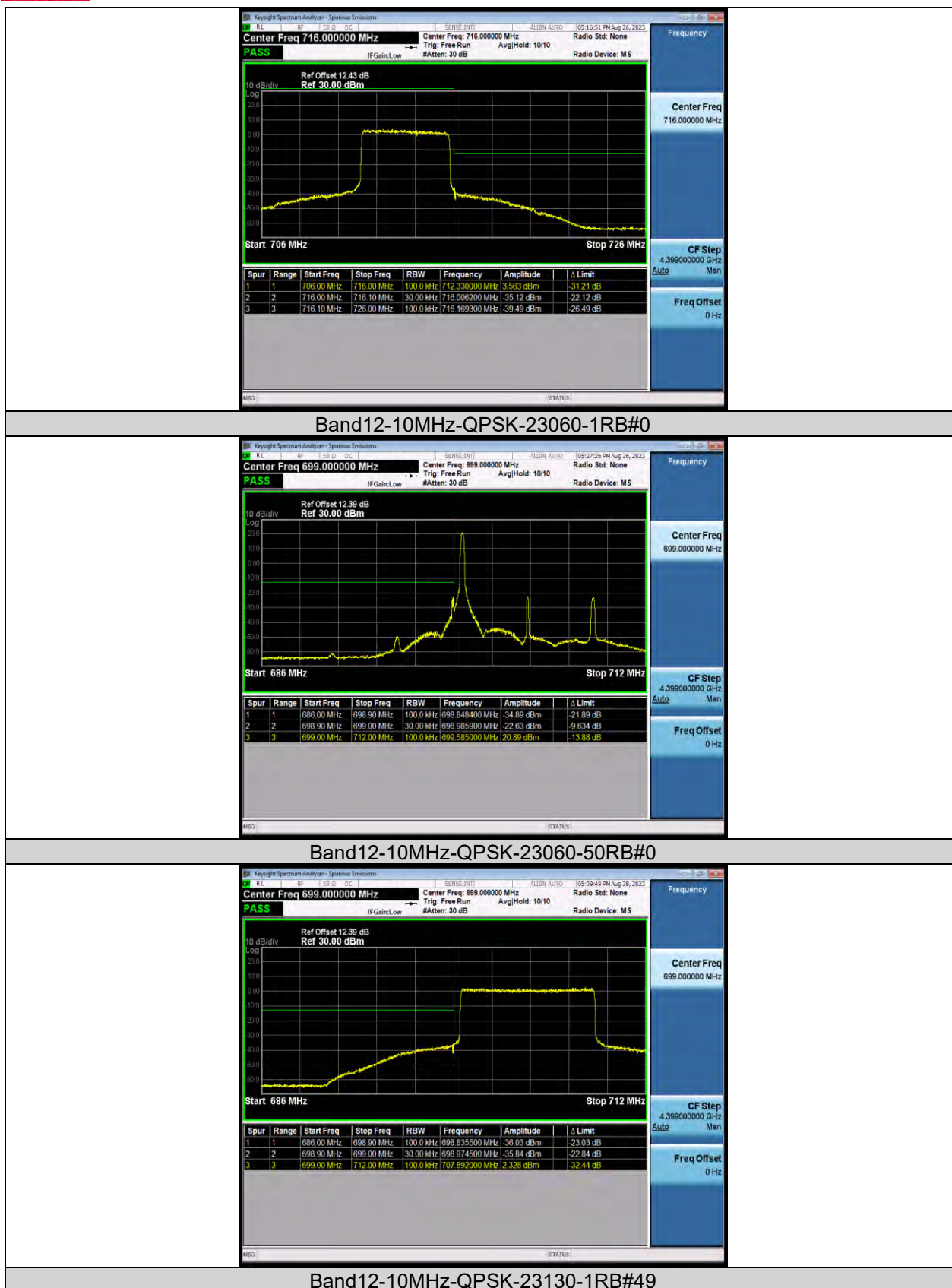


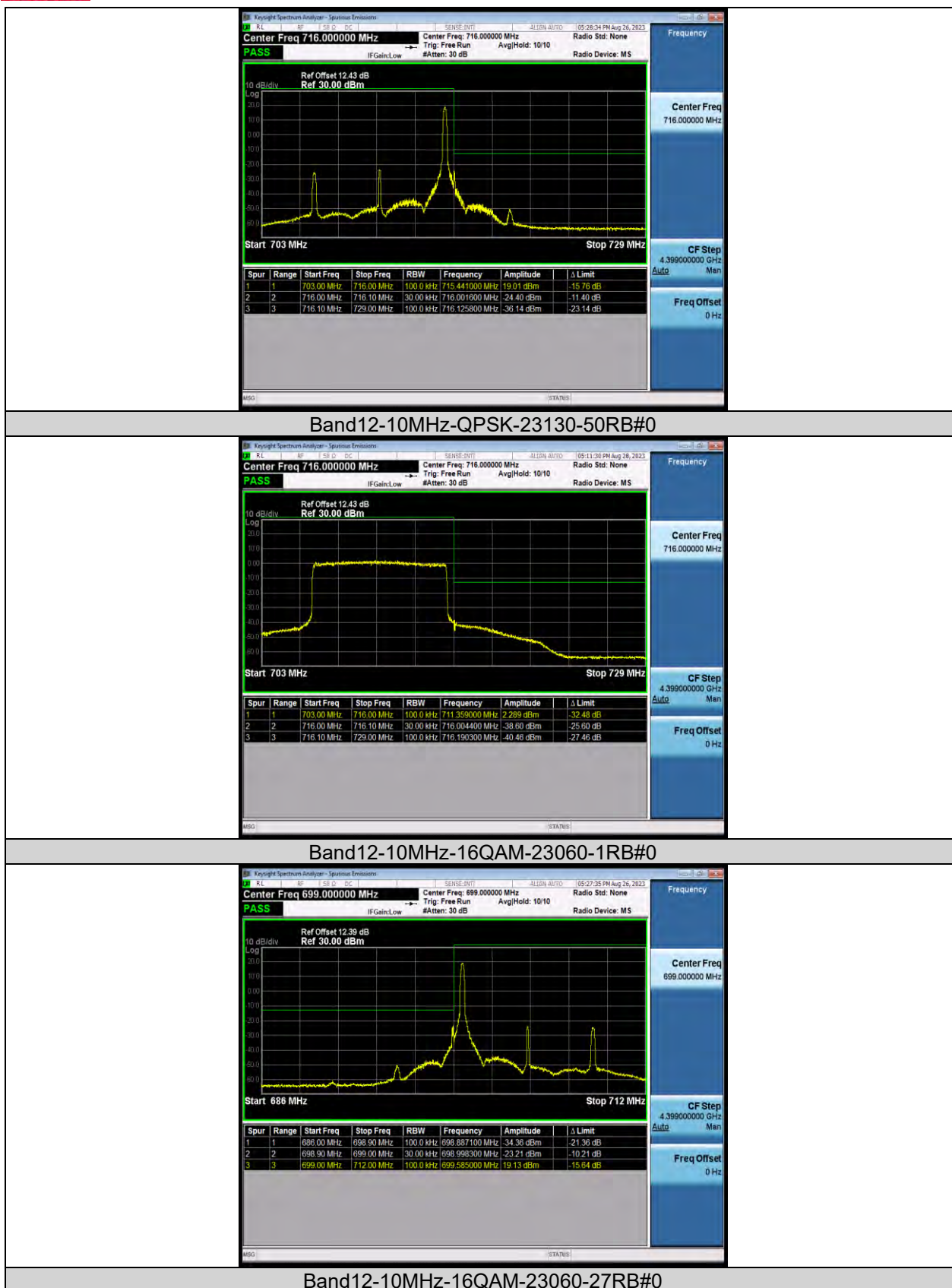


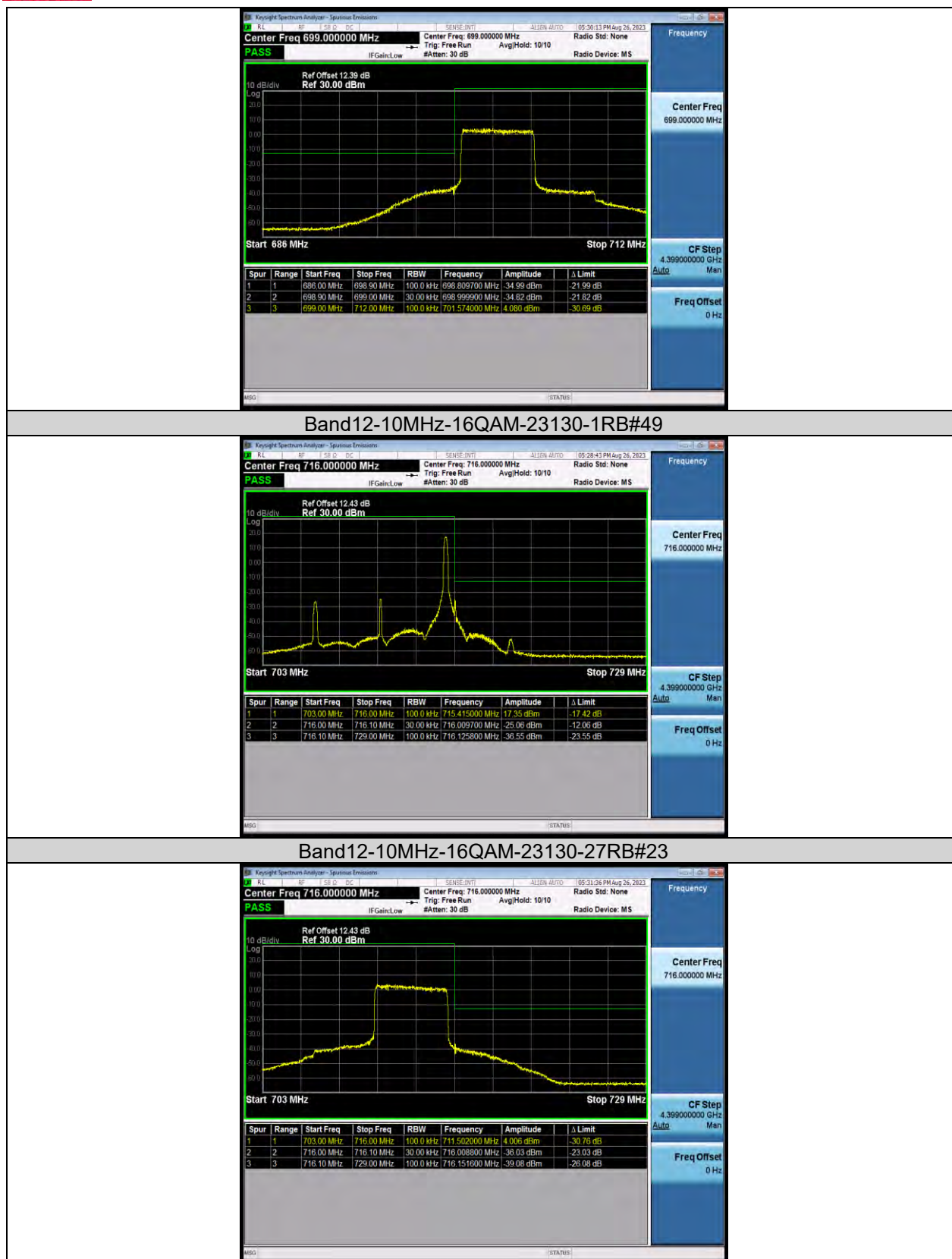












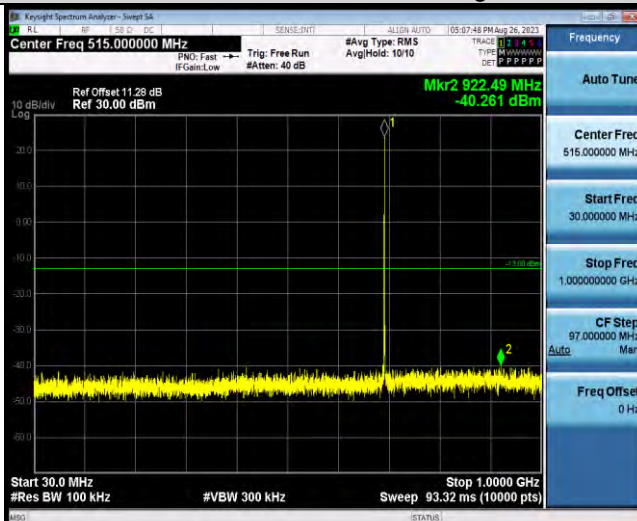
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range1:30~1000MHz	-40.26	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range2:1000~10000MHz	-34.05	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-39.28	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-33.48	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range1:30~1000MHz	-39.78	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range2:1000~10000MHz	-33.96	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range1:30~1000MHz	-39.22	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:1000~10000MHz	-33.87	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-40.08	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-34.36	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:30~1000MHz	-39.28	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range2:1000~10000MHz	-34.39	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:30~1000MHz	-39.8	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:1000~10000MHz	-32.79	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-39.85	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-33.6	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:30~1000MHz	-39.57	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:1000~10000MHz	-32.6	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-39.24	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-34.03	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-38.47	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-34.56	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-39.83	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-33.64	PASS

Test Graphs

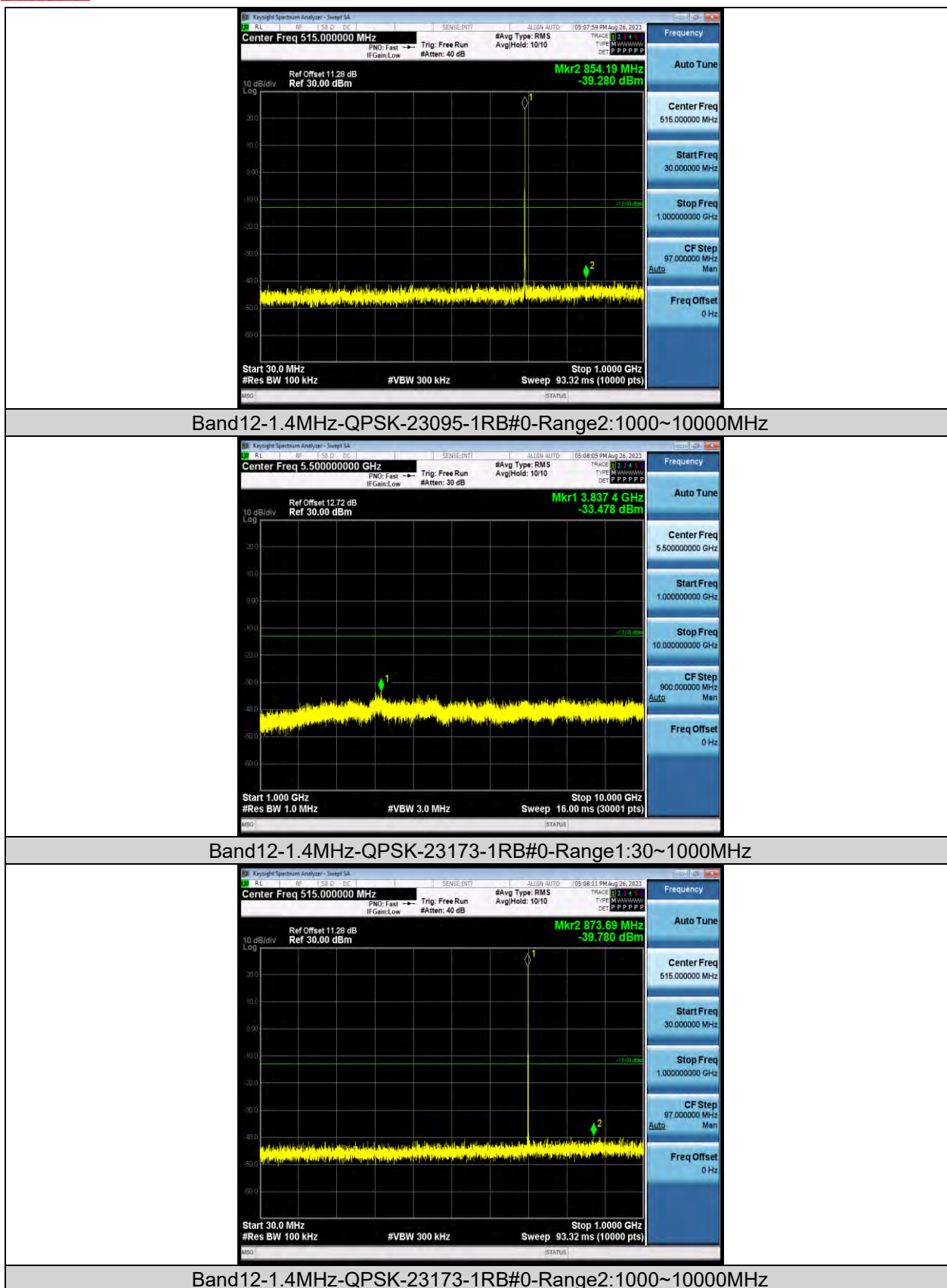
Band12-1.4MHz-QPSK-23017-1RB#0-Range1:30~1000MHz



Band12-1.4MHz-QPSK-23017-1RB#0-Range2:1000~10000MHz



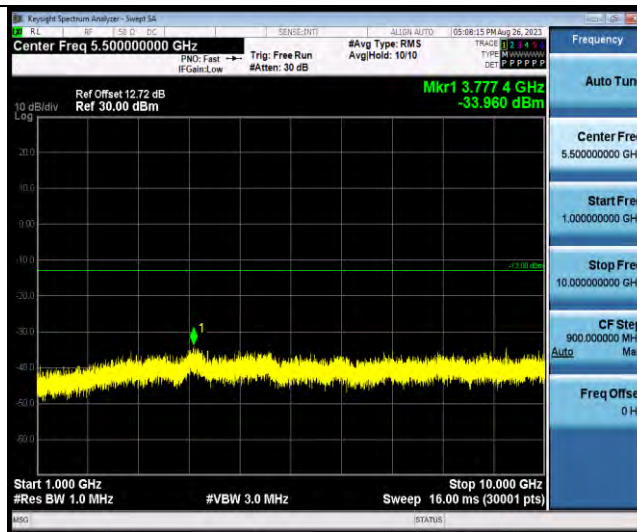
Band12-1.4MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



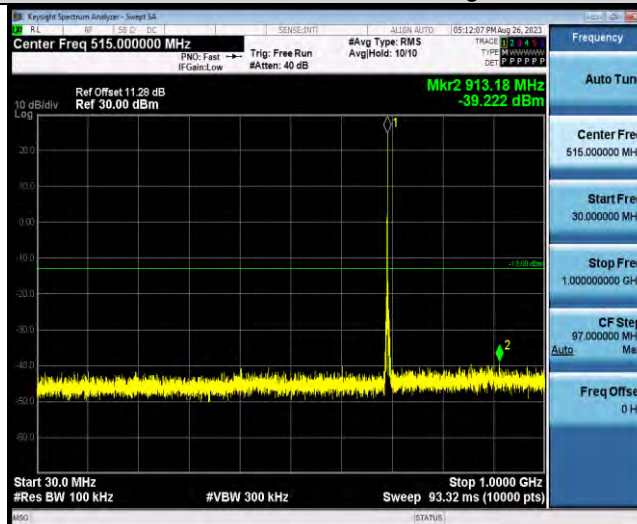


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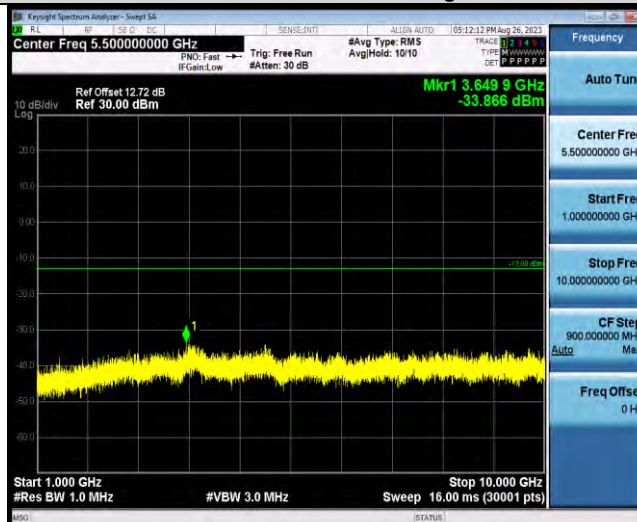
Test Report No.: W7L-P23070009RF03



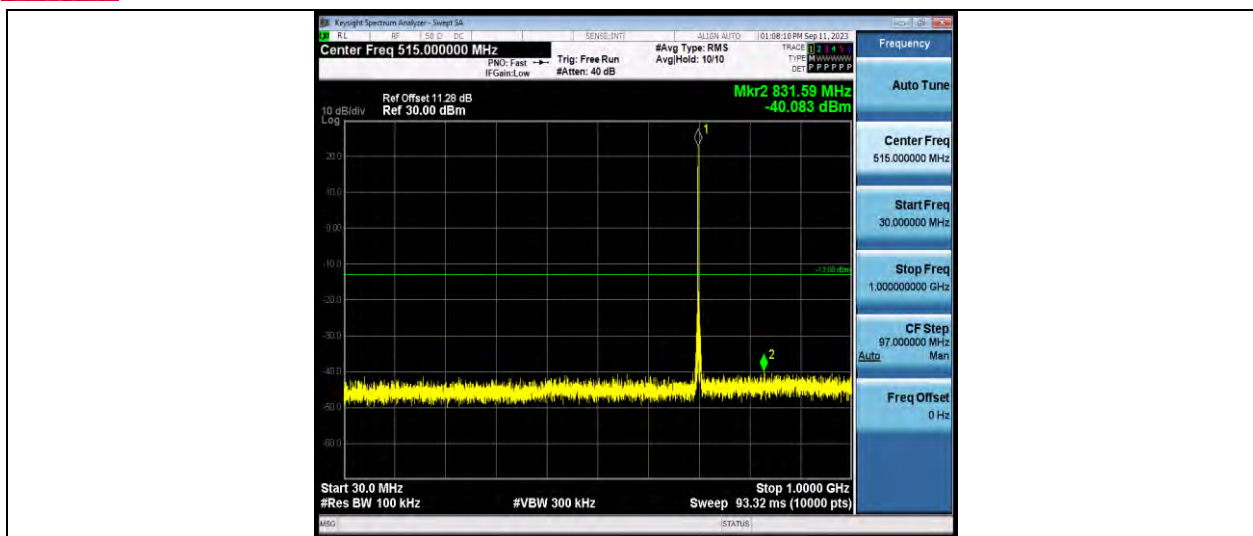
Band12-3MHz-QPSK-23025-1RB#0-Range1:30~1000MHz



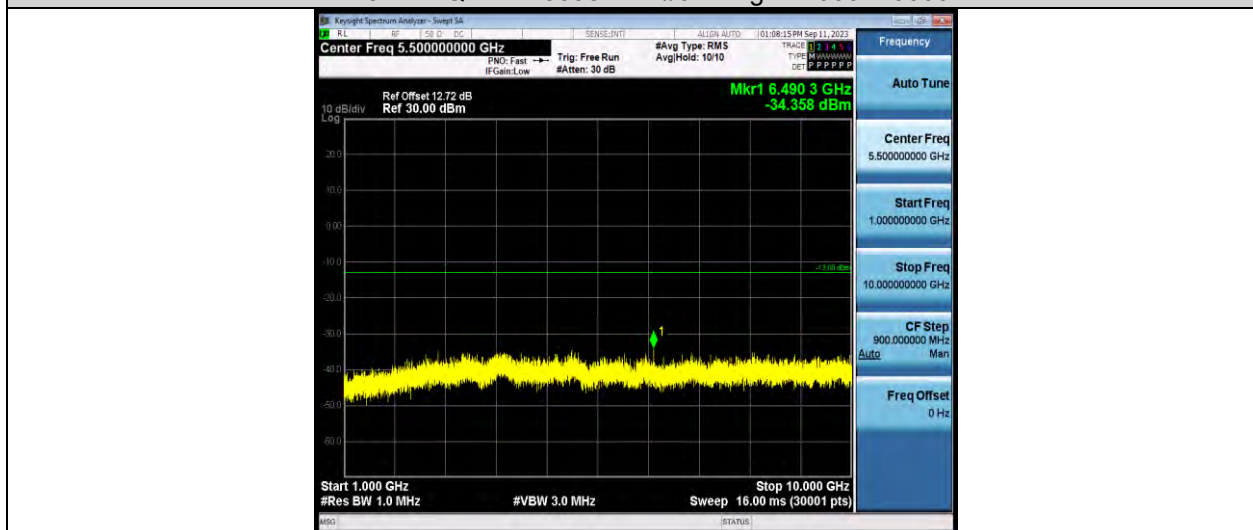
Band12-3MHz-QPSK-23025-1RB#0-Range2:1000~10000MHz



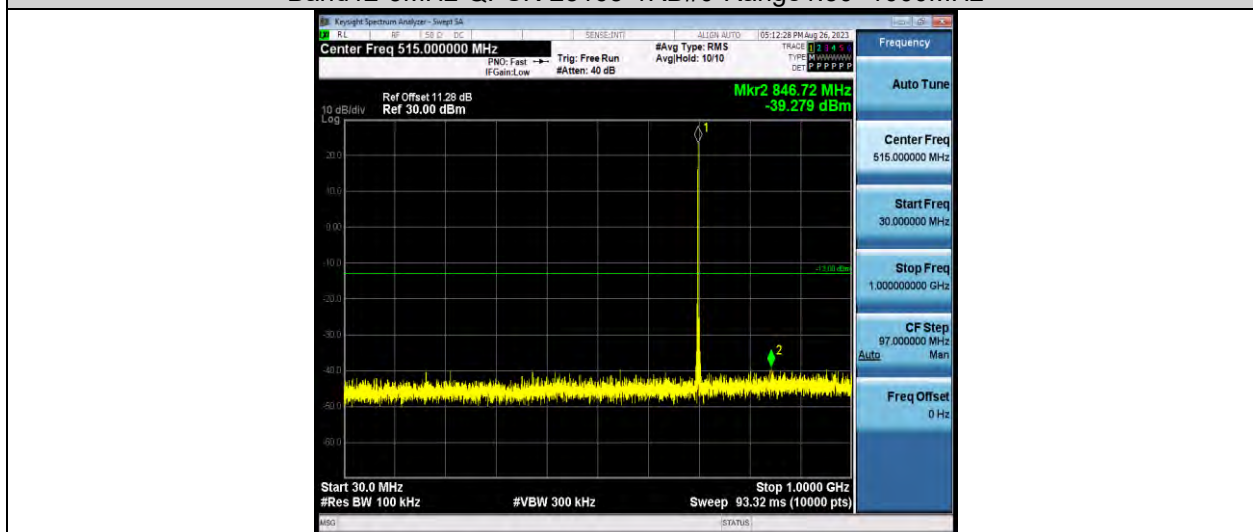
Band12-3MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



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



Band12-3MHz-QPSK-23165-1RB#0-Range1:30~1000MHz



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

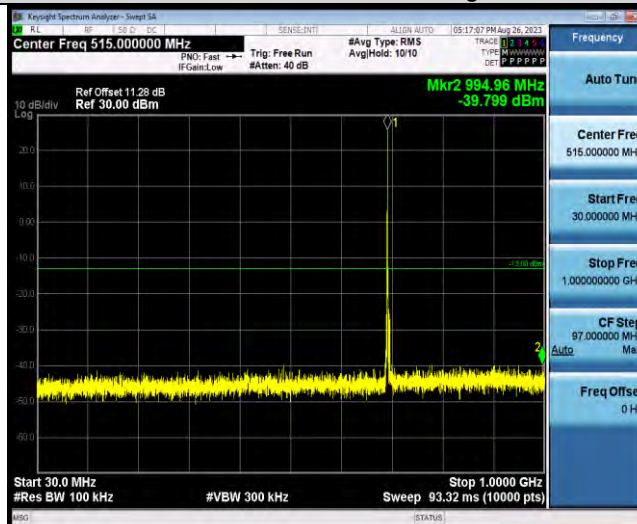


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VERITAS

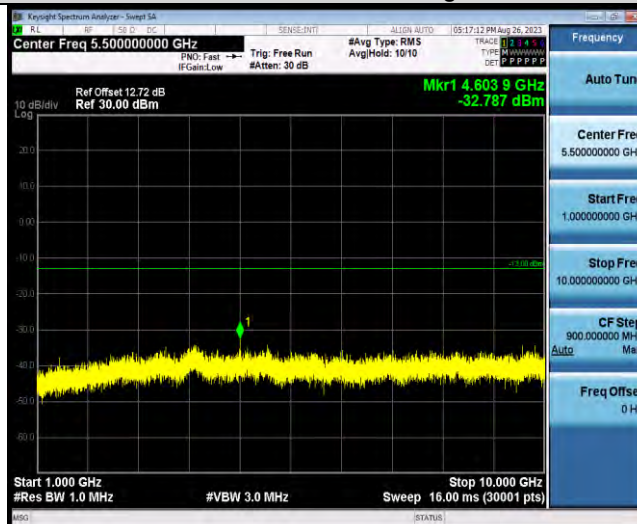
Test Report No.: W7L-P23070009RF03



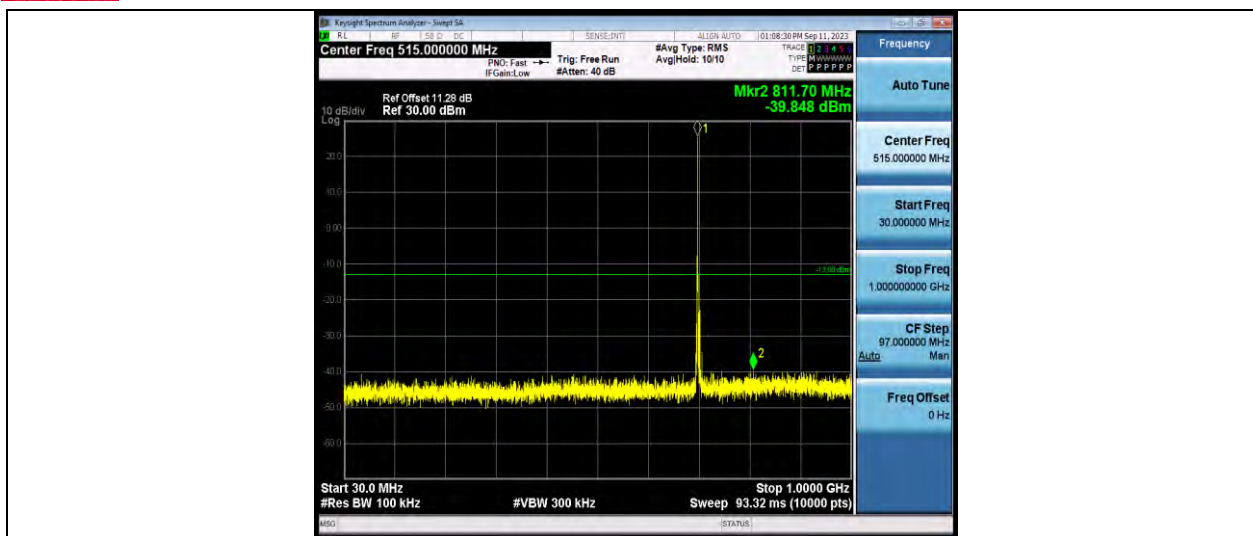
Band12-5MHz-QPSK-23035-1RB#0-Range1:30~1000MHz



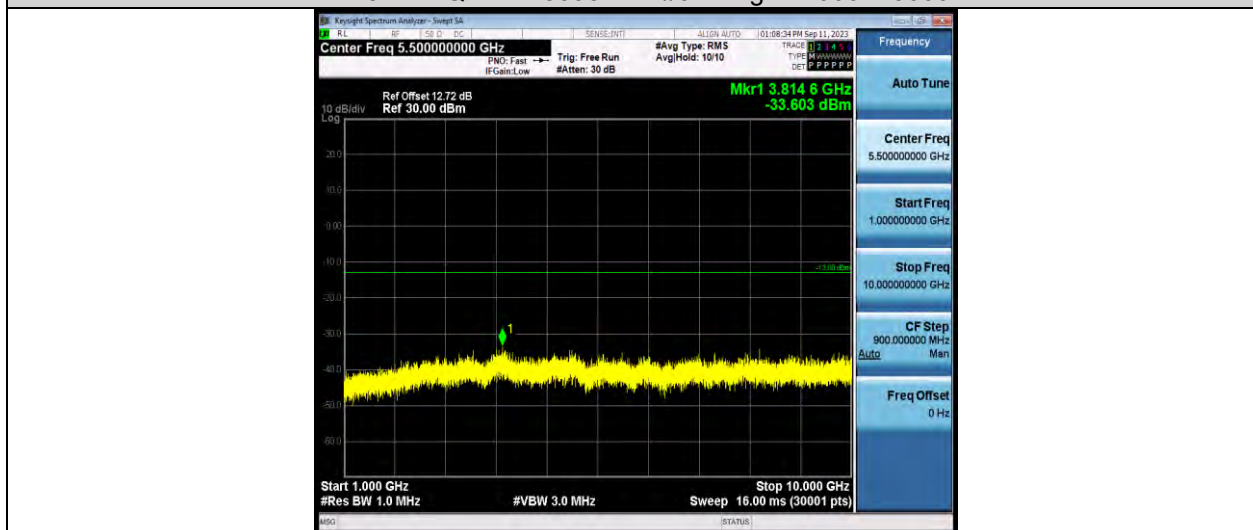
Band12-5MHz-QPSK-23035-1RB#0-Range2:1000~10000MHz



Band12-5MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



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