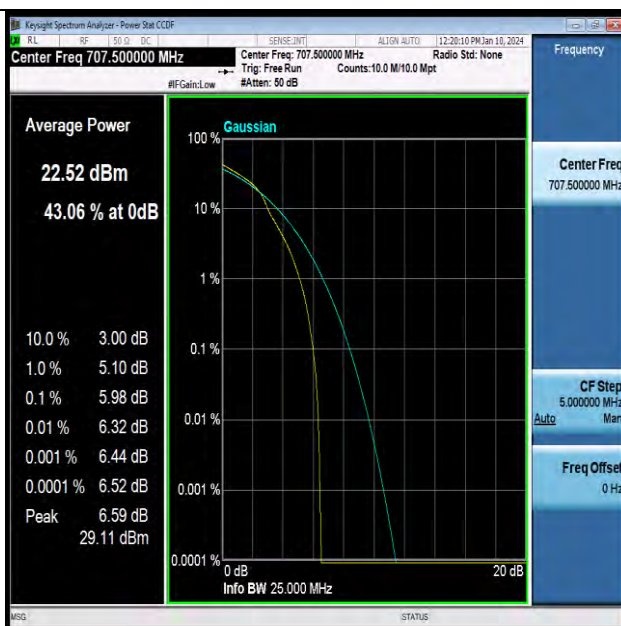
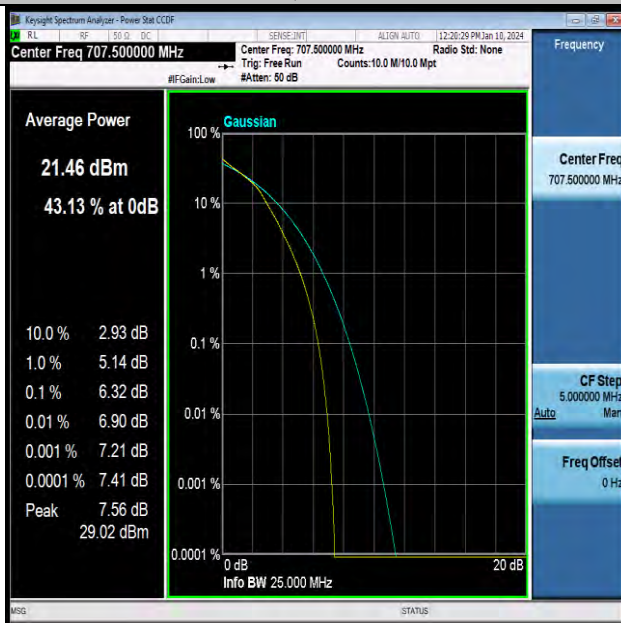
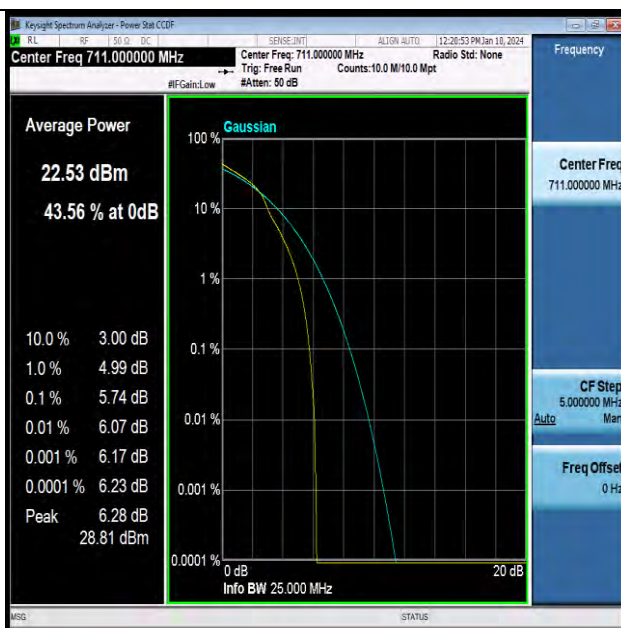




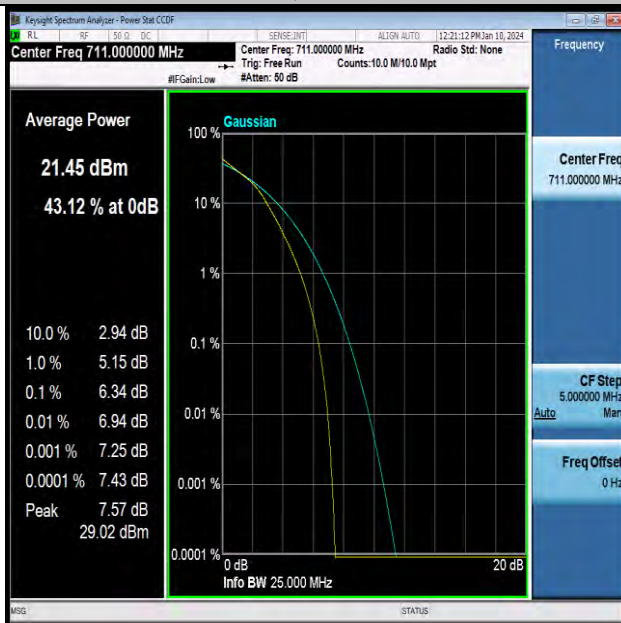
Band12-10MHz-16QAM-23095-1RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



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



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

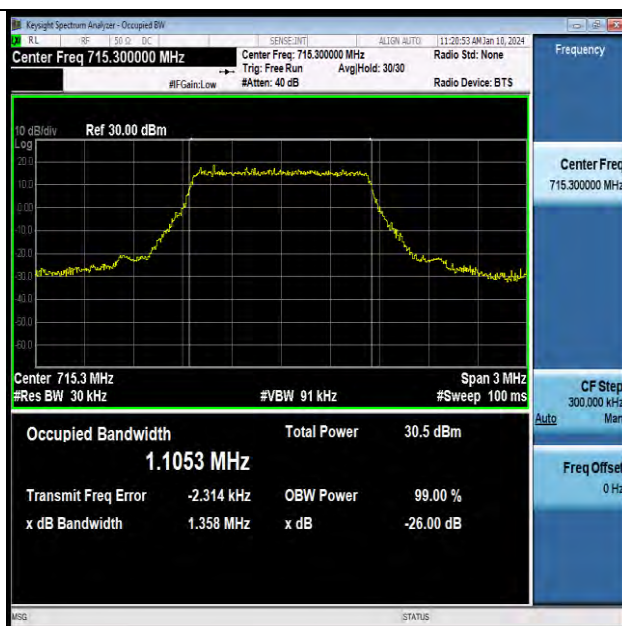
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.1029	1.366	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.1032	1.345	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.1053	1.358	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1015	1.344	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1036	1.354	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1011	1.354	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7020	3.077	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7032	3.067	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6987	3.075	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6961	3.011	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6999	3.046	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7009	3.032	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5308	5.185	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5220	5.142	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5187	5.246	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5191	5.171	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5228	5.178	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5217	5.185	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9969	9.970	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9906	9.989	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0240	10.10	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9951	10.06	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9858	10.07	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9854	10.03	PASS

Test Graphs





Band12-1.4MHz-QPSK-23173-6RB#0-PASS



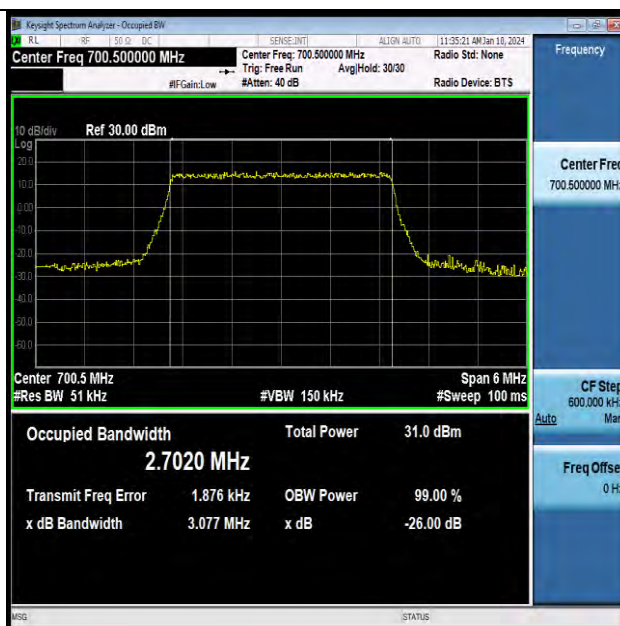
Band12-1.4MHz-16QAM-23017-6RB#0-PASS



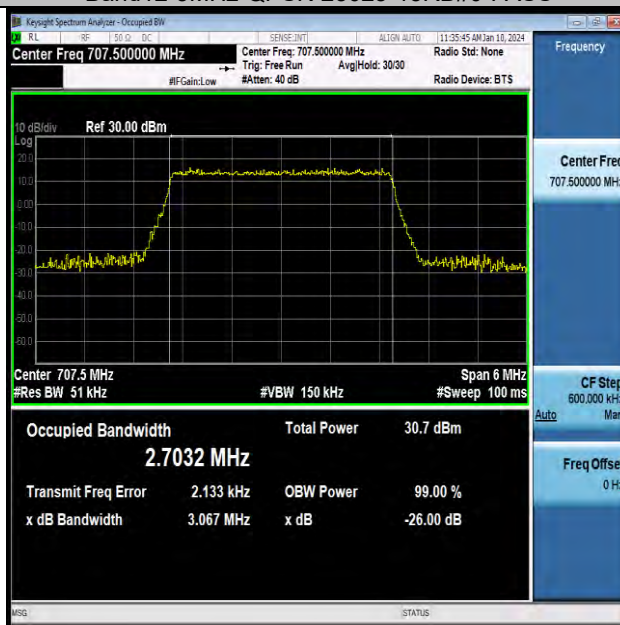
Band12-1.4MHz-16QAM-23095-6RB#0-PASS



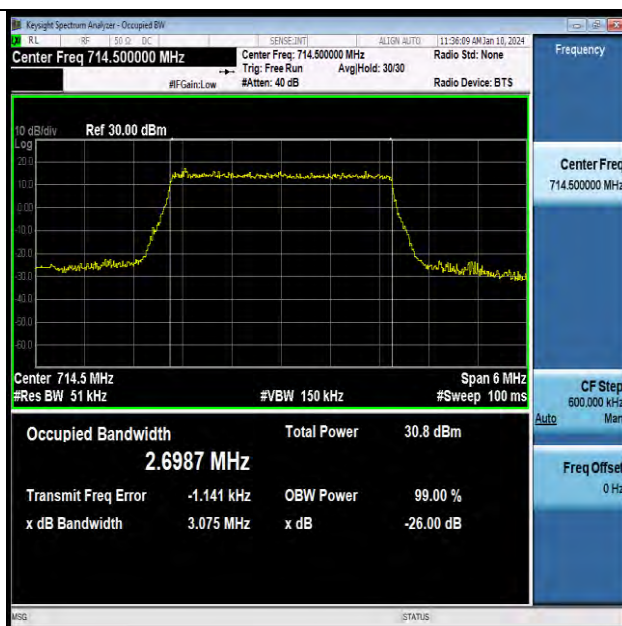
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



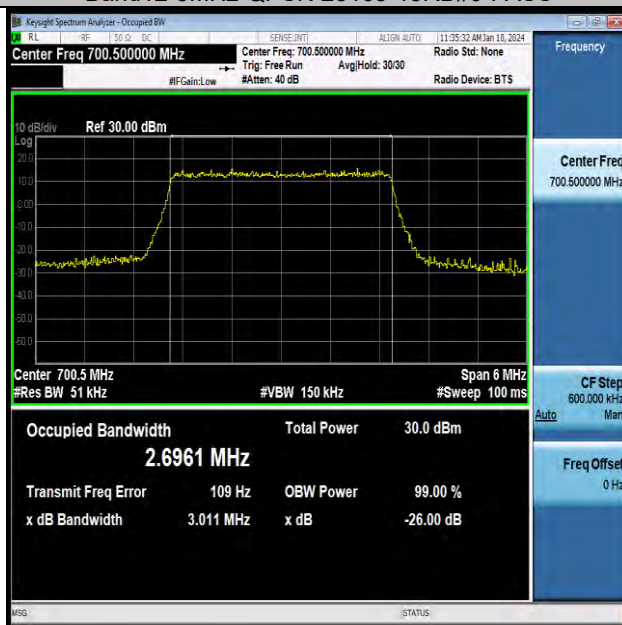
Band12-3MHz-QPSK-23025-15RB#0-PASS



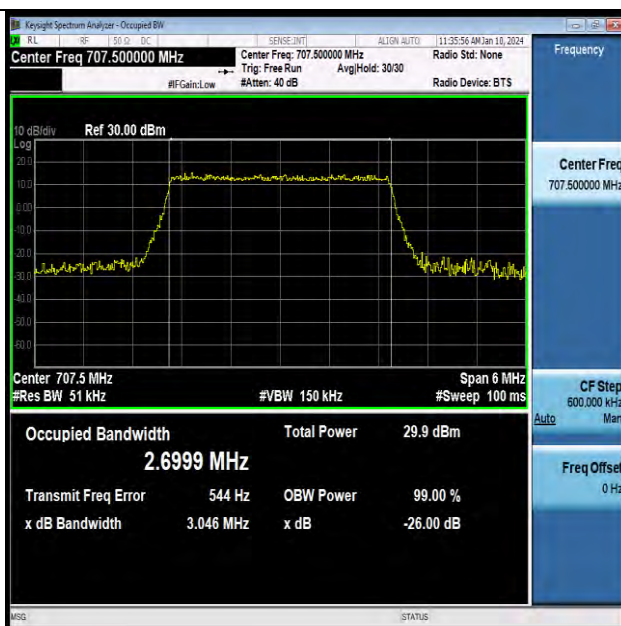
Band12-3MHz-QPSK-23095-15RB#0-PASS



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



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



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



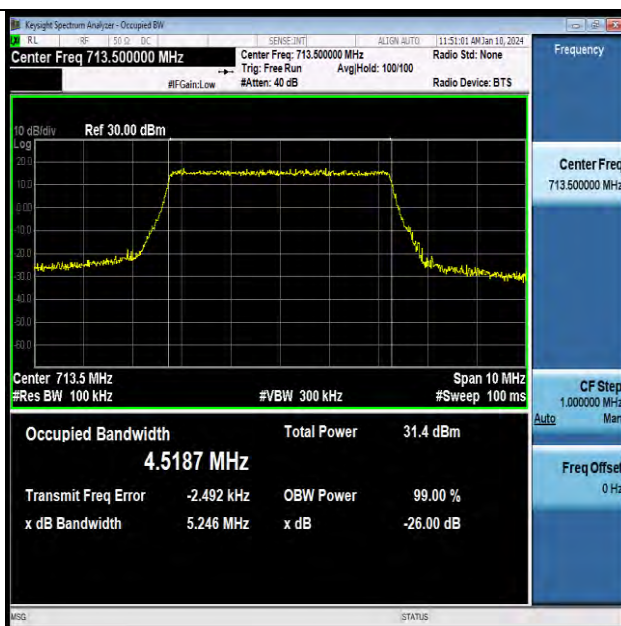
Band12-3MHz-16QAM-23165-15RB#0-PASS



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



Band12-5MHz-QPSK-23095-25RB#0-PASS



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



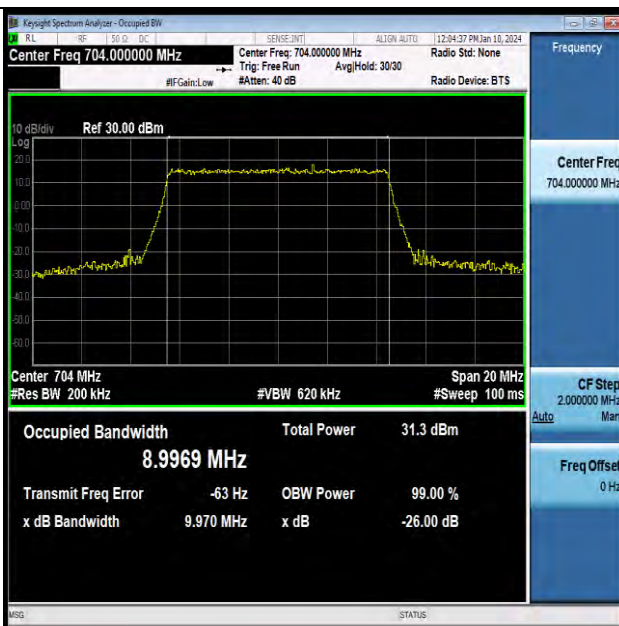
Band12-5MHz-16QAM-23035-25RB#0-PASS



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



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



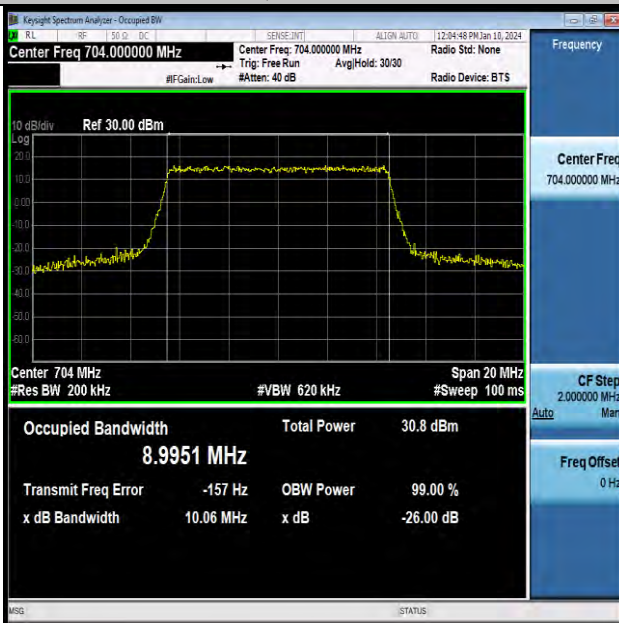
Band12-10MHz-QPSK-23060-50RB#0-PASS



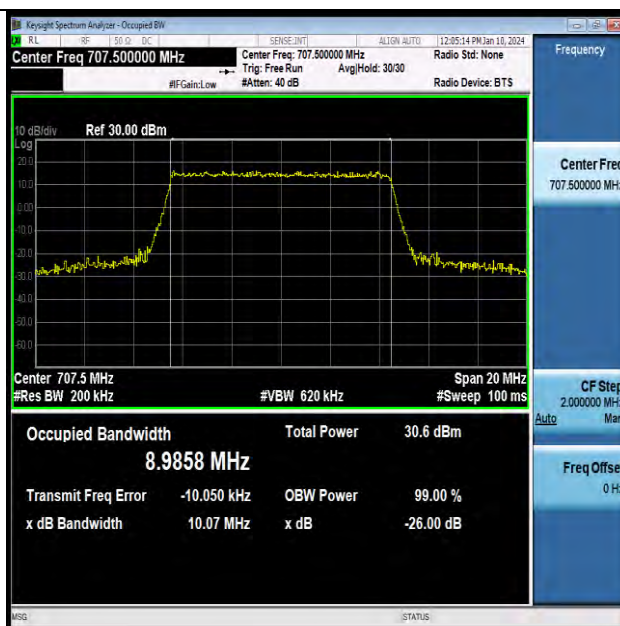
Band12-10MHz-QPSK-23095-50RB#0-PASS



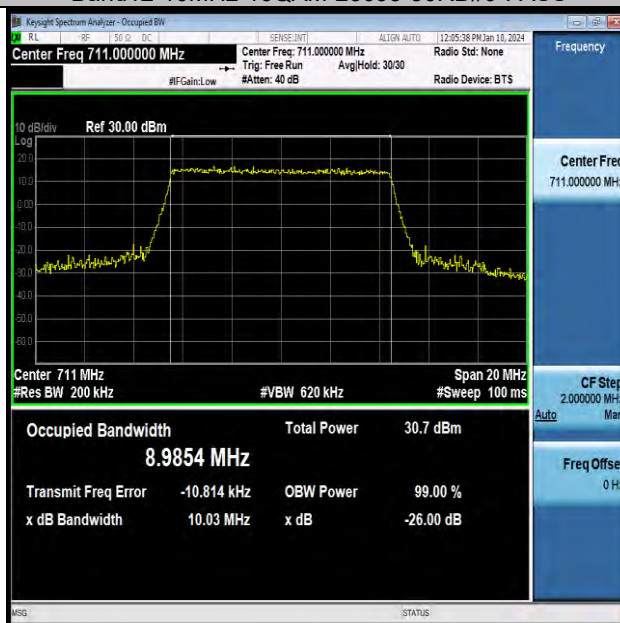
Band12-10MHz-QPSK-23130-50RB#0-PASS



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



Band12-10MHz-16QAM-23095-50RB#0-PASS



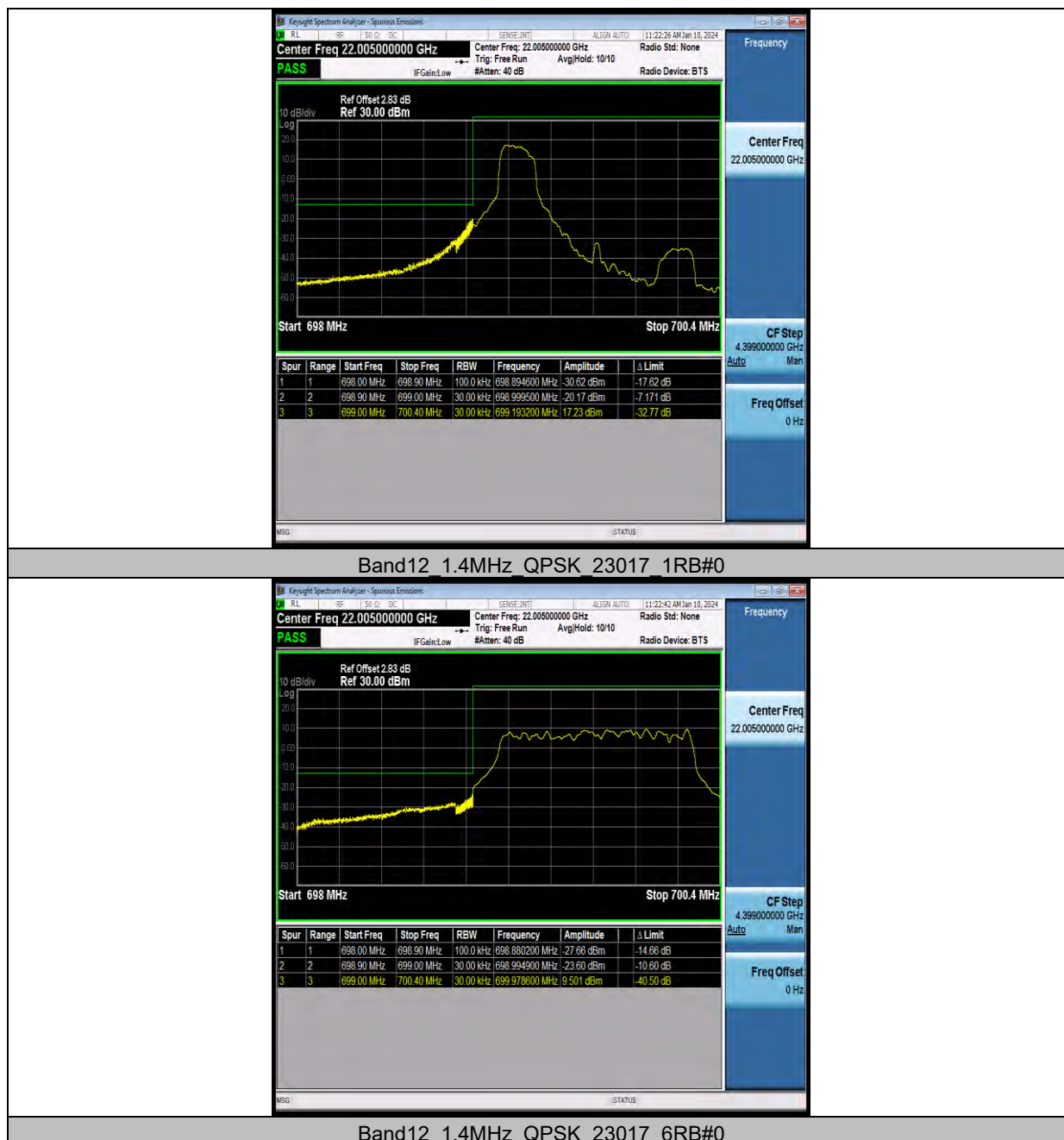
Band12-10MHz-16QAM-23130-50RB#0-PASS

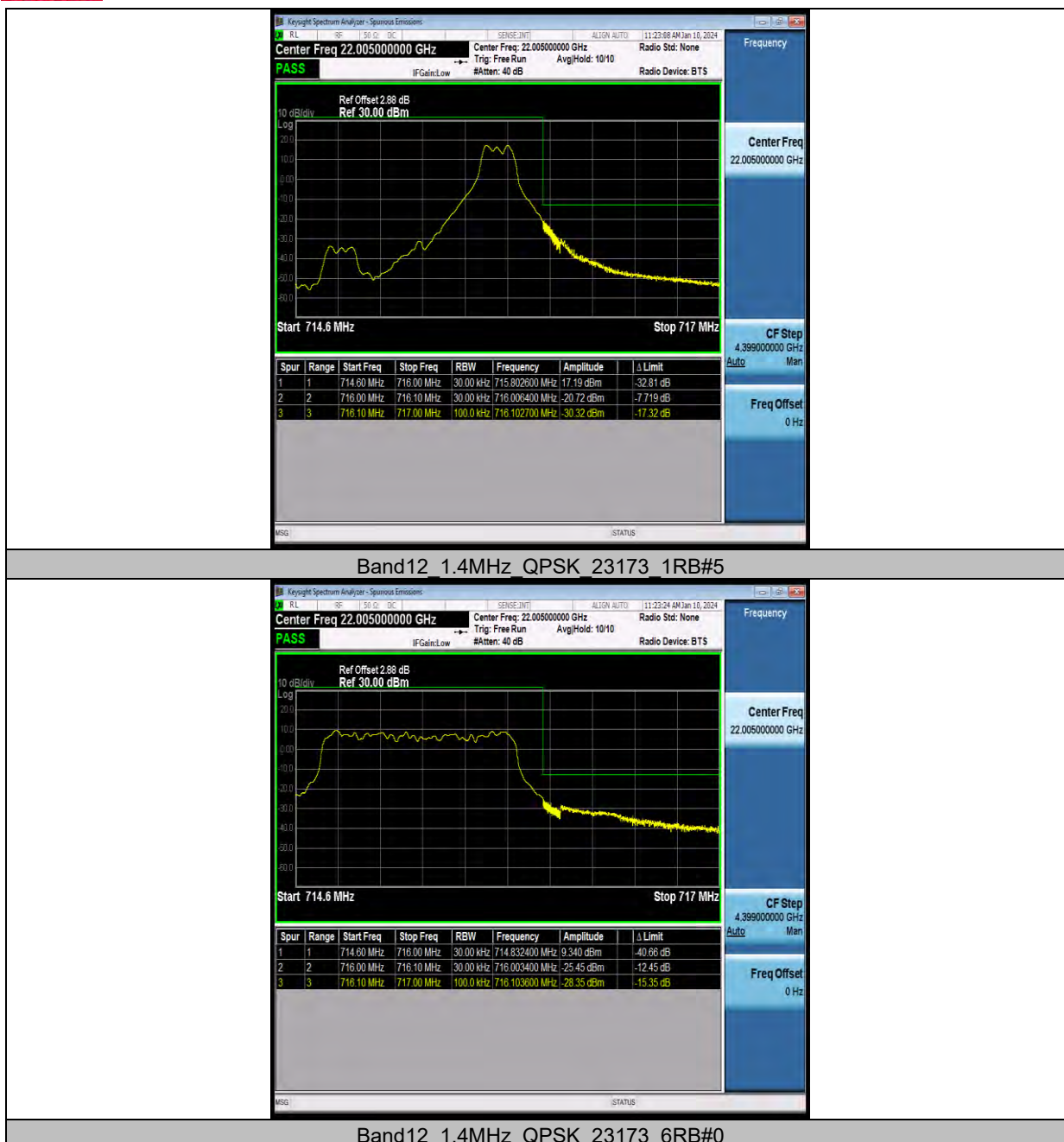
BAND EDGE

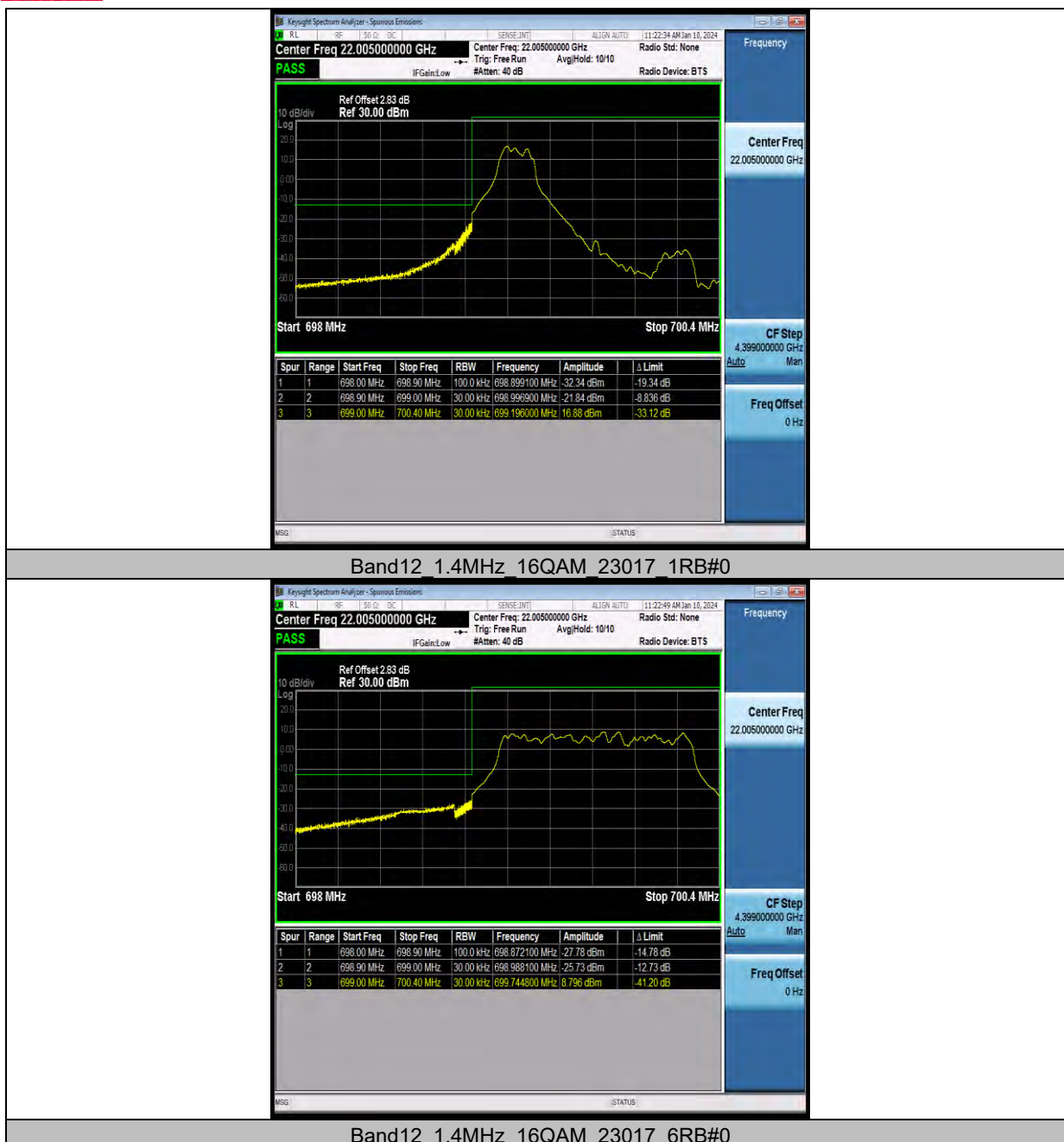
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-20.17	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-23.60	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-20.72	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-25.45	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-21.84	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-25.73	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.03	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-26.17	PASS
Band12	3MHz	QPSK	23025	1RB#0	-23.74	PASS
Band12	3MHz	QPSK	23025	15RB#0	-26.01	PASS
Band12	3MHz	QPSK	23165	1RB#14	-24.37	PASS
Band12	3MHz	QPSK	23165	15RB#0	-28.16	PASS
Band12	3MHz	16QAM	23025	1RB#0	-23.56	PASS
Band12	3MHz	16QAM	23025	15RB#0	-26.72	PASS
Band12	3MHz	16QAM	23165	1RB#14	-25.45	PASS
Band12	3MHz	16QAM	23165	15RB#0	-29.63	PASS
Band12	5MHz	QPSK	23035	1RB#0	-27.21	PASS
Band12	5MHz	QPSK	23035	25RB#0	-29.72	PASS
Band12	5MHz	QPSK	23155	1RB#24	-26.81	PASS
Band12	5MHz	QPSK	23155	25RB#0	-31.51	PASS
Band12	5MHz	16QAM	23035	1RB#0	-27.81	PASS
Band12	5MHz	16QAM	23035	25RB#0	-31.14	PASS
Band12	5MHz	16QAM	23155	1RB#24	-28.34	PASS
Band12	5MHz	16QAM	23155	25RB#0	-31.03	PASS
Band12	10MHz	QPSK	23060	1RB#0	-40.56	PASS
Band12	10MHz	QPSK	23060	50RB#0	-35.69	PASS
Band12	10MHz	QPSK	23130	1RB#49	-40.62	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.40	PASS
Band12	10MHz	16QAM	23060	1RB#0	-42.36	PASS
Band12	10MHz	16QAM	23060	50RB#0	-36.34	PASS
Band12	10MHz	16QAM	23130	1RB#49	-41.26	PASS
Band12	10MHz	16QAM	23130	50RB#0	-39.31	PASS

Test Graphs









BUREAU
VERITAS

Test Report No.: W7L-P23120020RF03



Band12 1.4MHz 16QAM 23173 1RB#5



Band12 1.4MHz 16QAM 23173 6RB#0

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BUREAU
VERITAS

Test Report No.: W7L-P23120020RF03



Band12 3MHz QPSK 23165 1RB#14



Band12 3MHz QPSK 23165 15RB#0

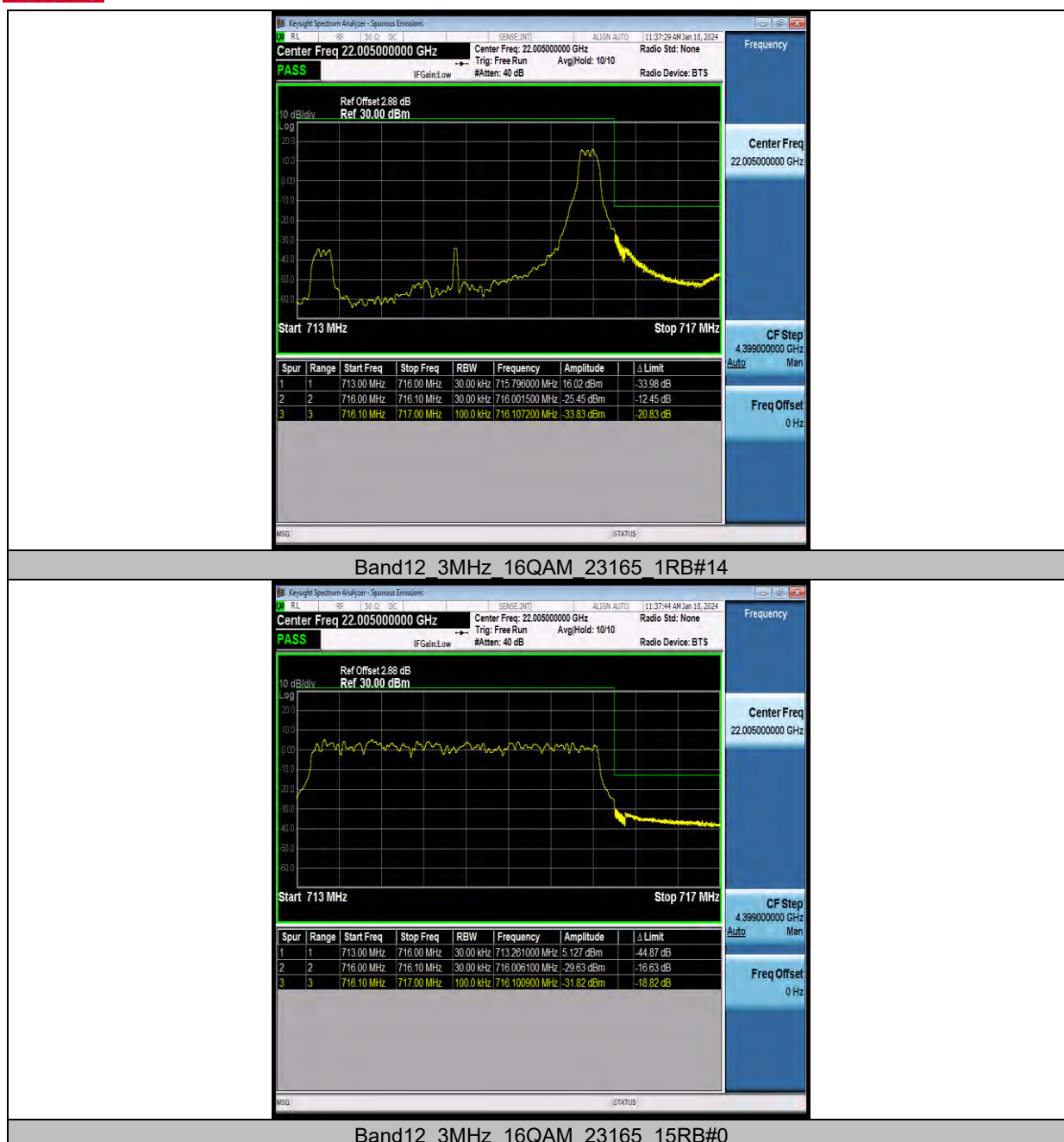
BV 7Layers Communications Technology
(Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road,
Zhaoshang Street, Nanshan District Shenzhen,
Guangdong, People's Republic of China

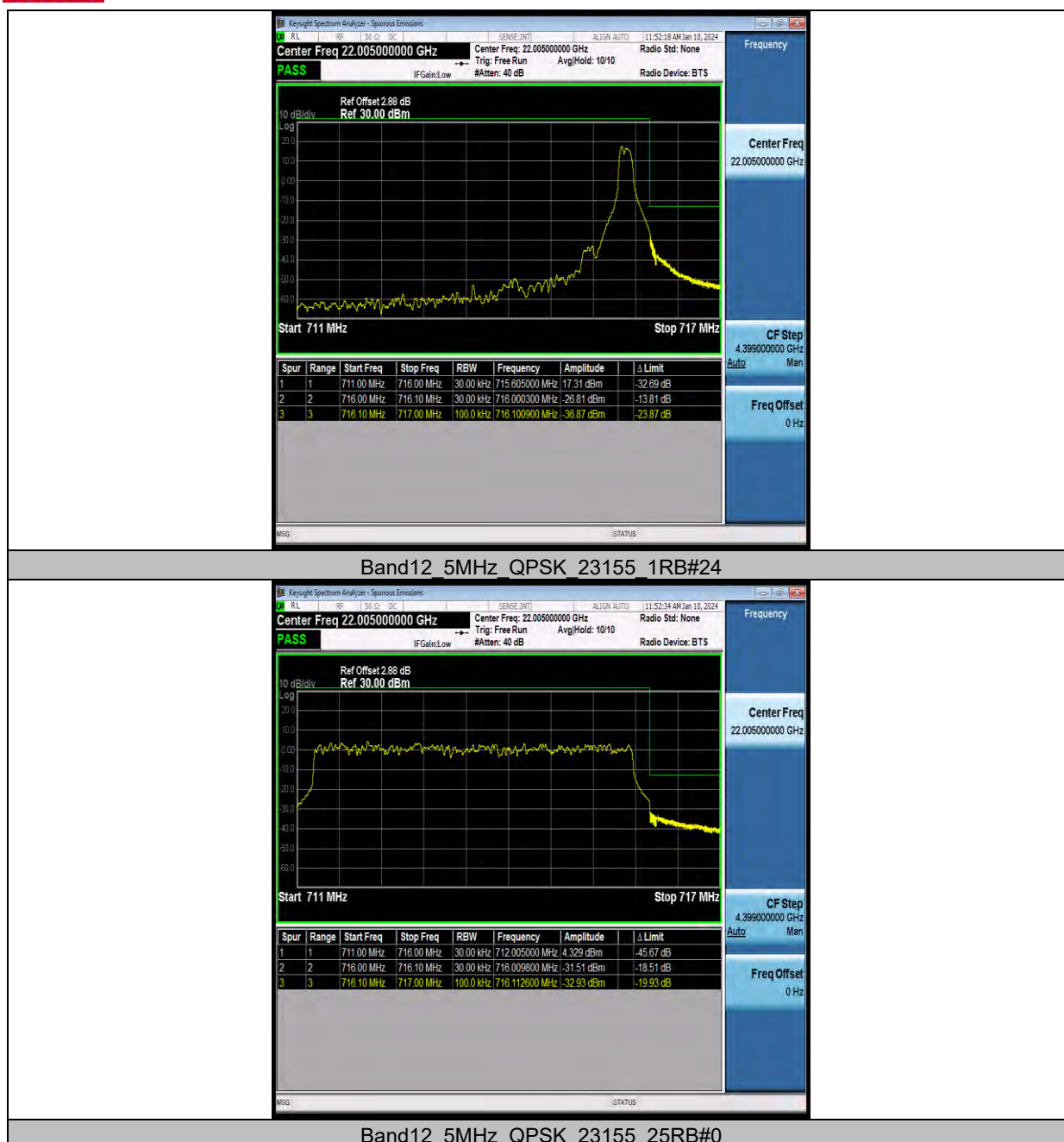
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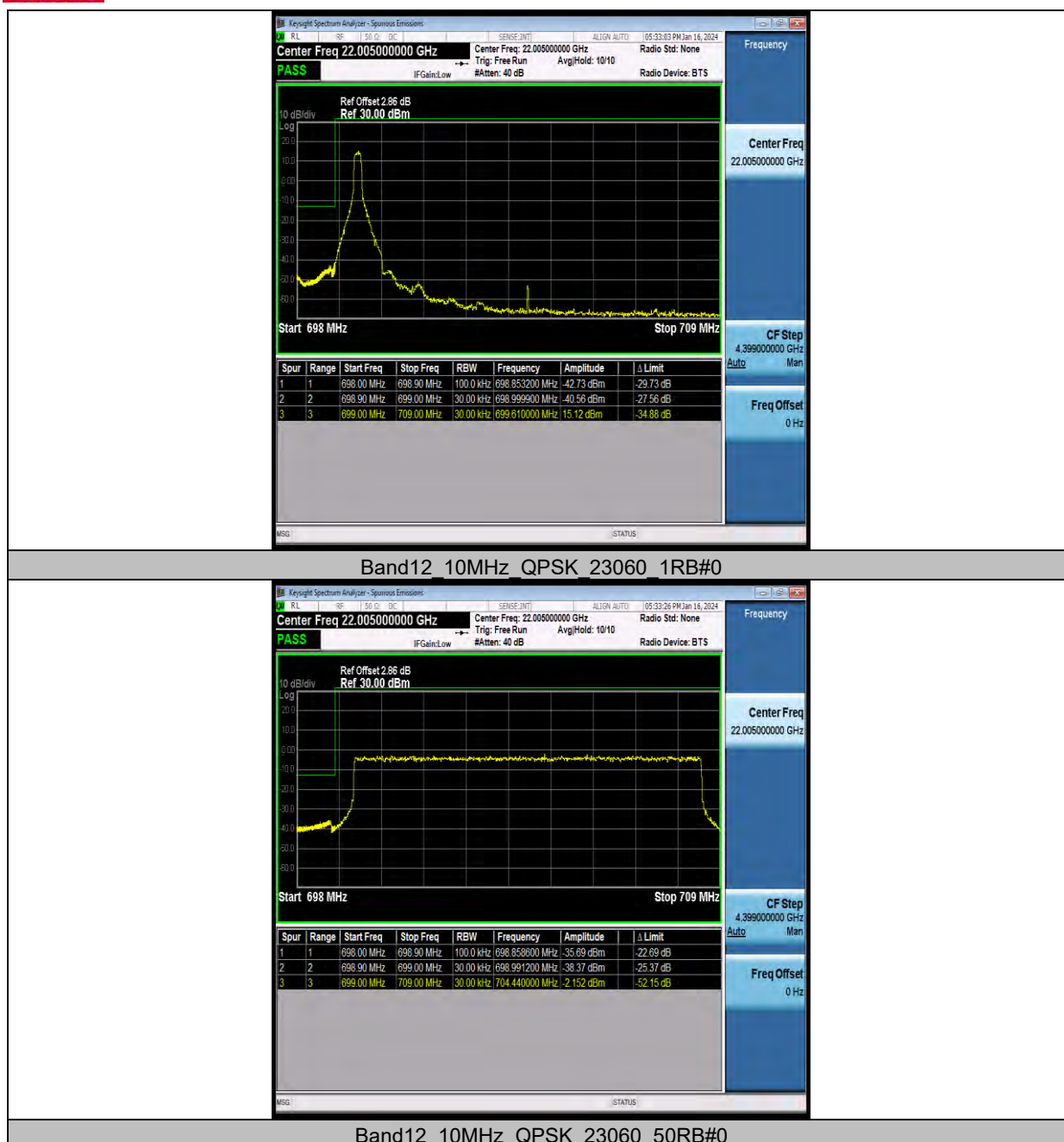


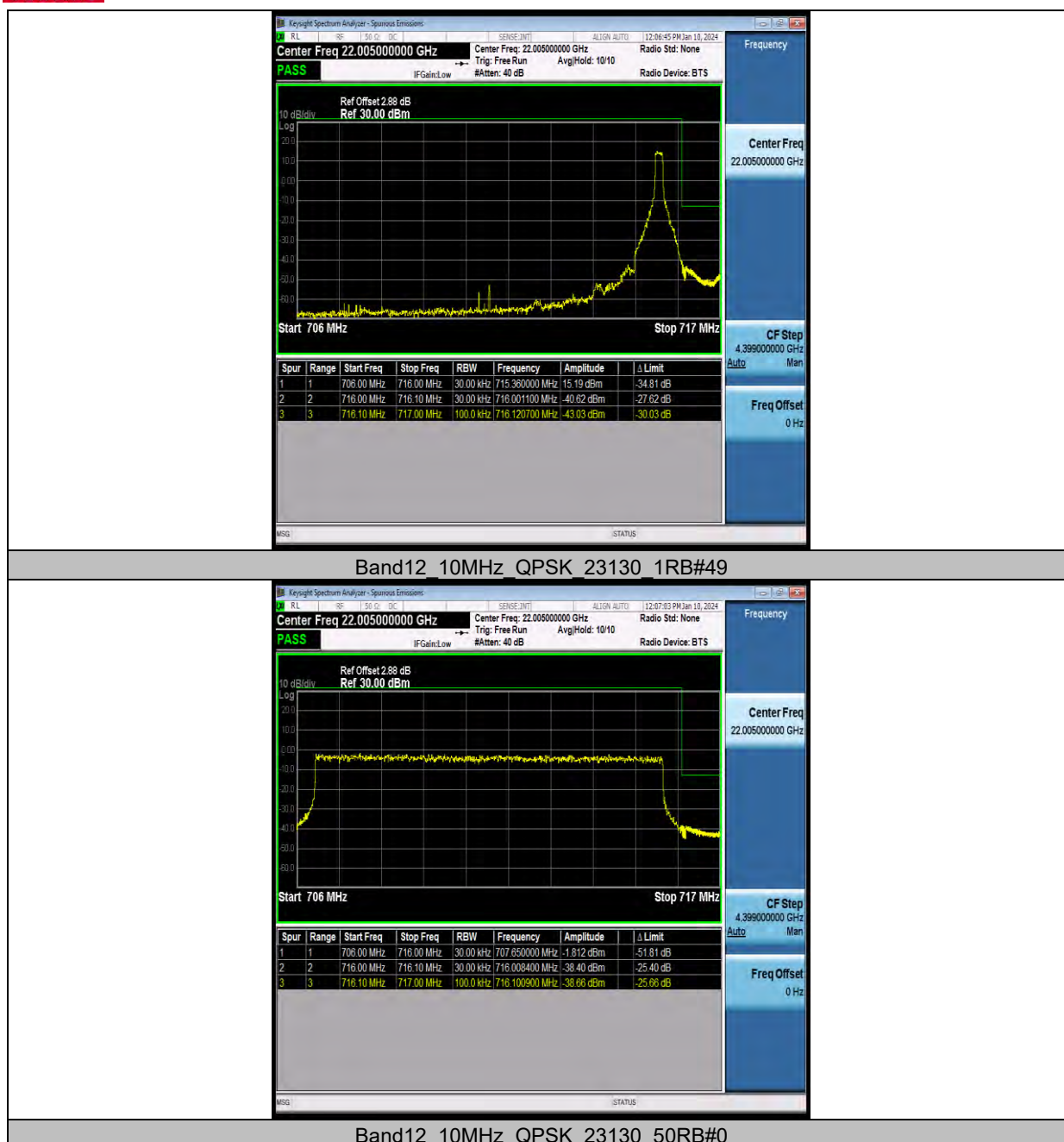


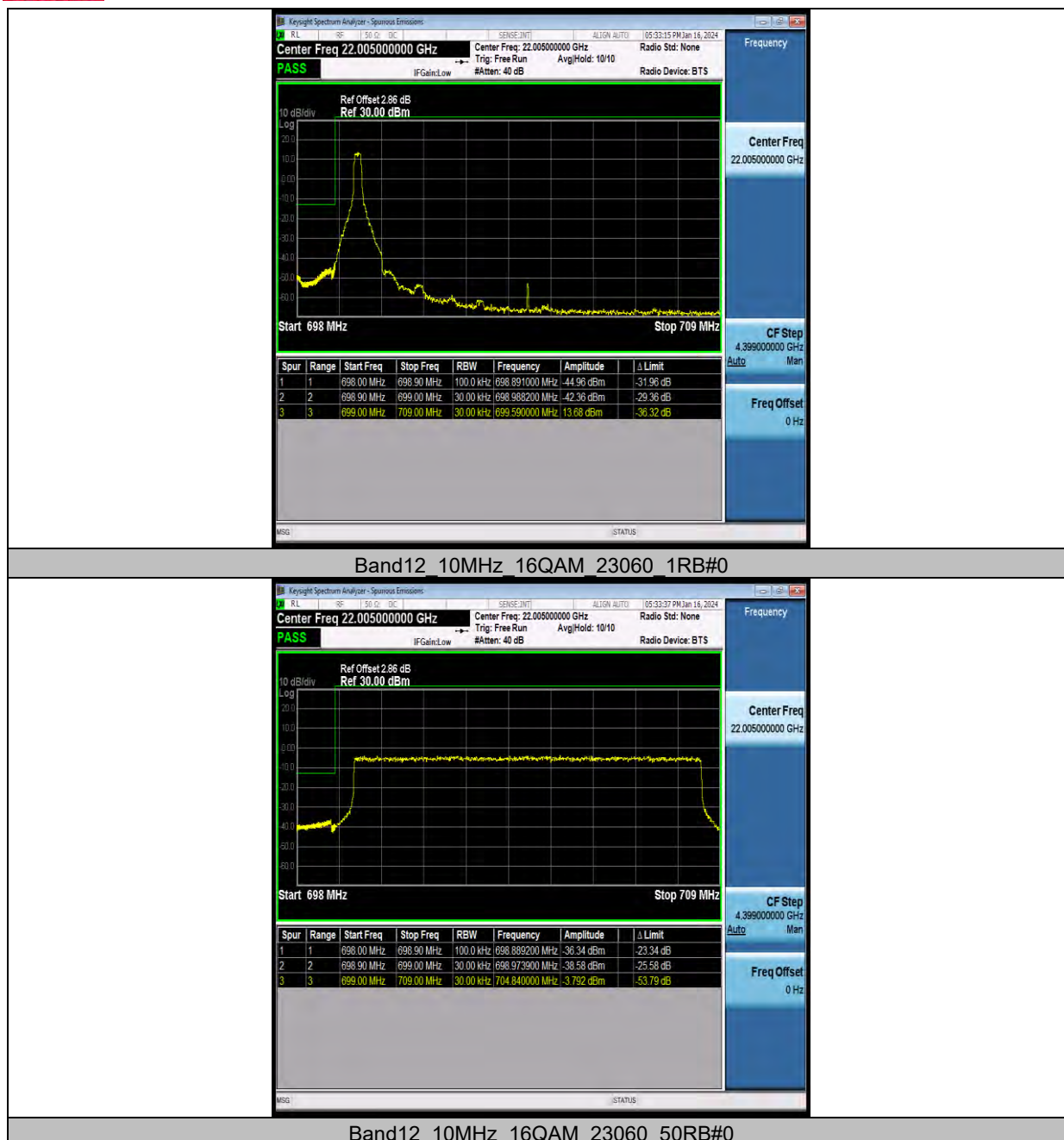












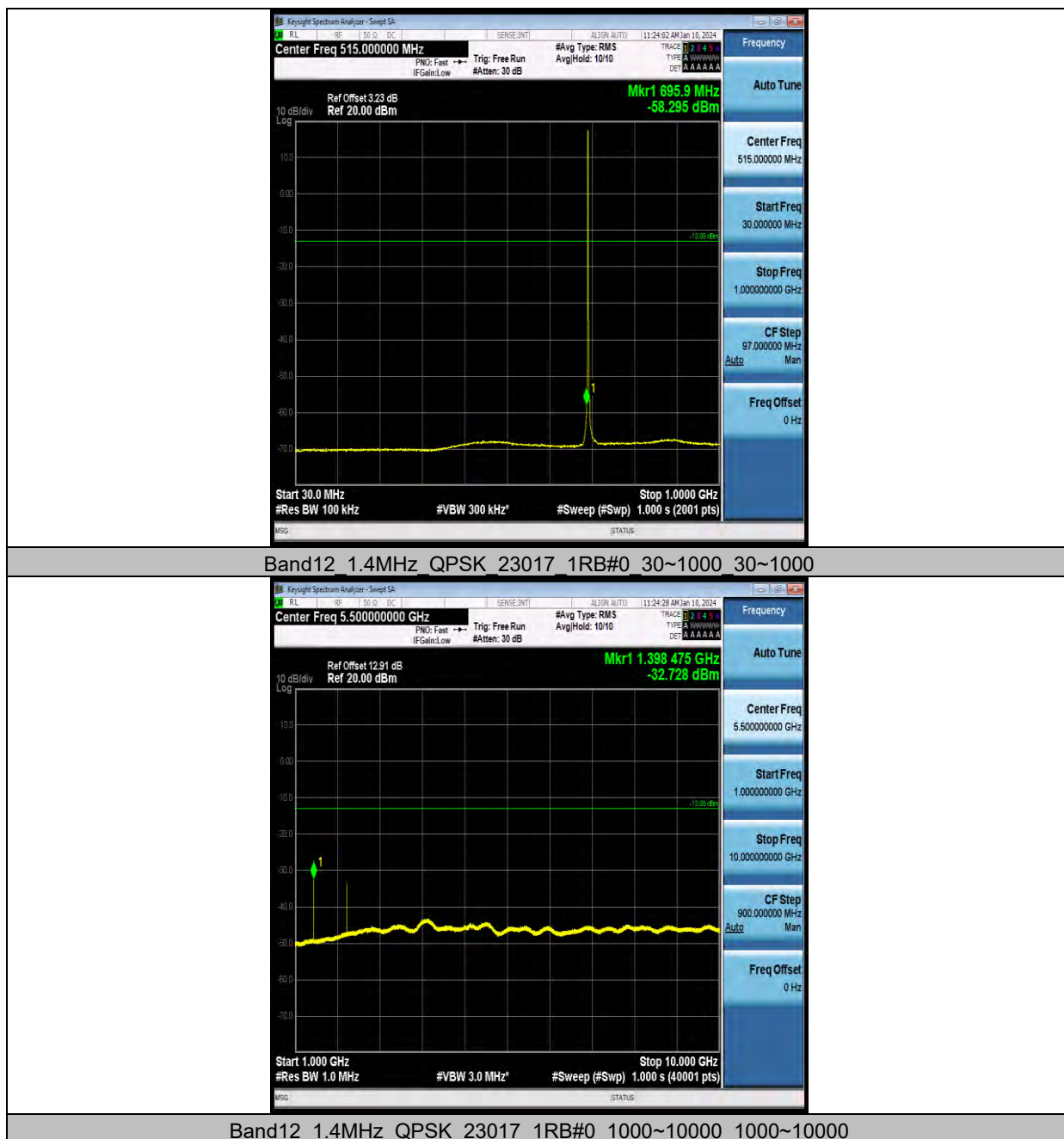


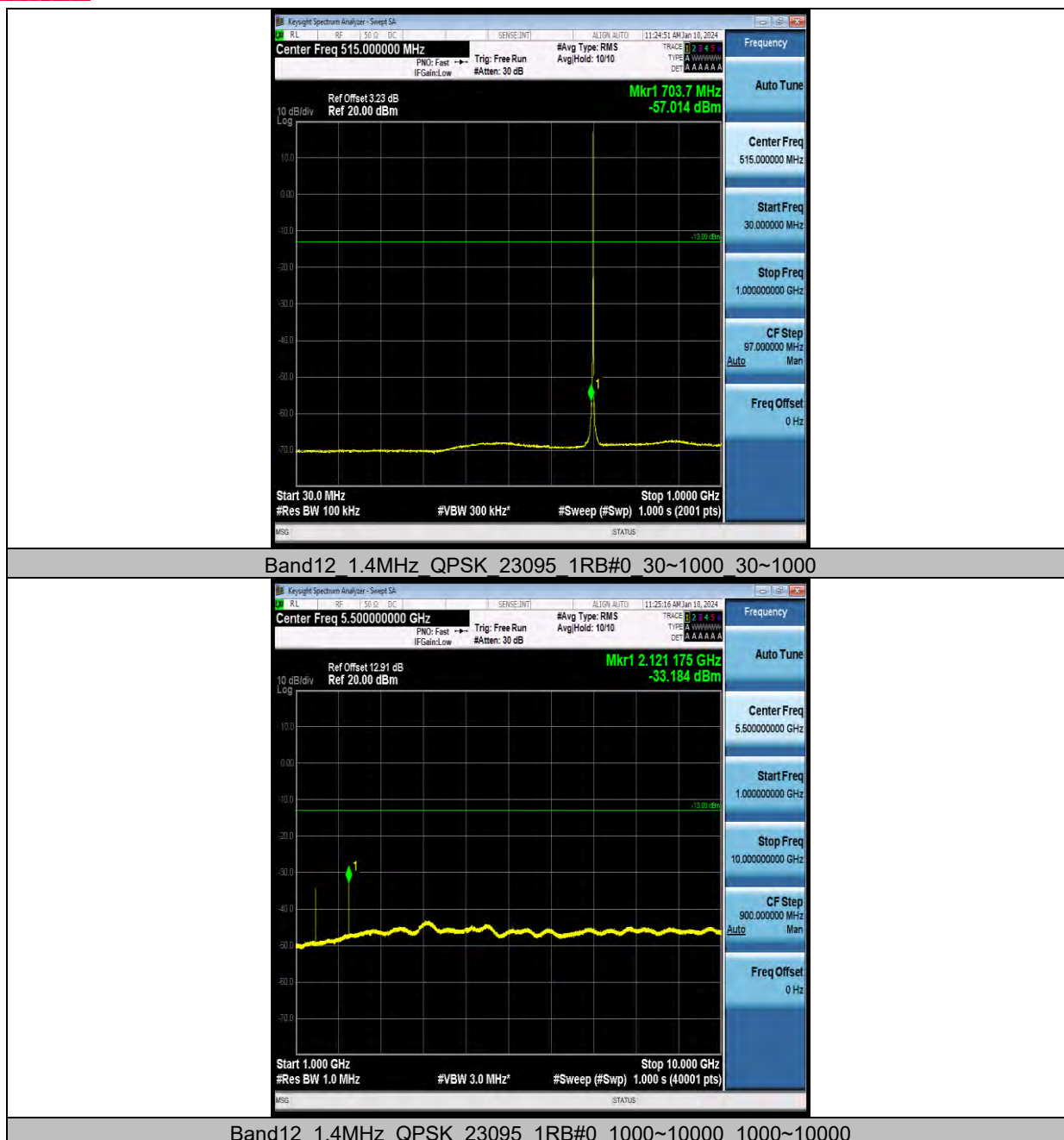
CONDUCTED SPURIOUS EMISSION

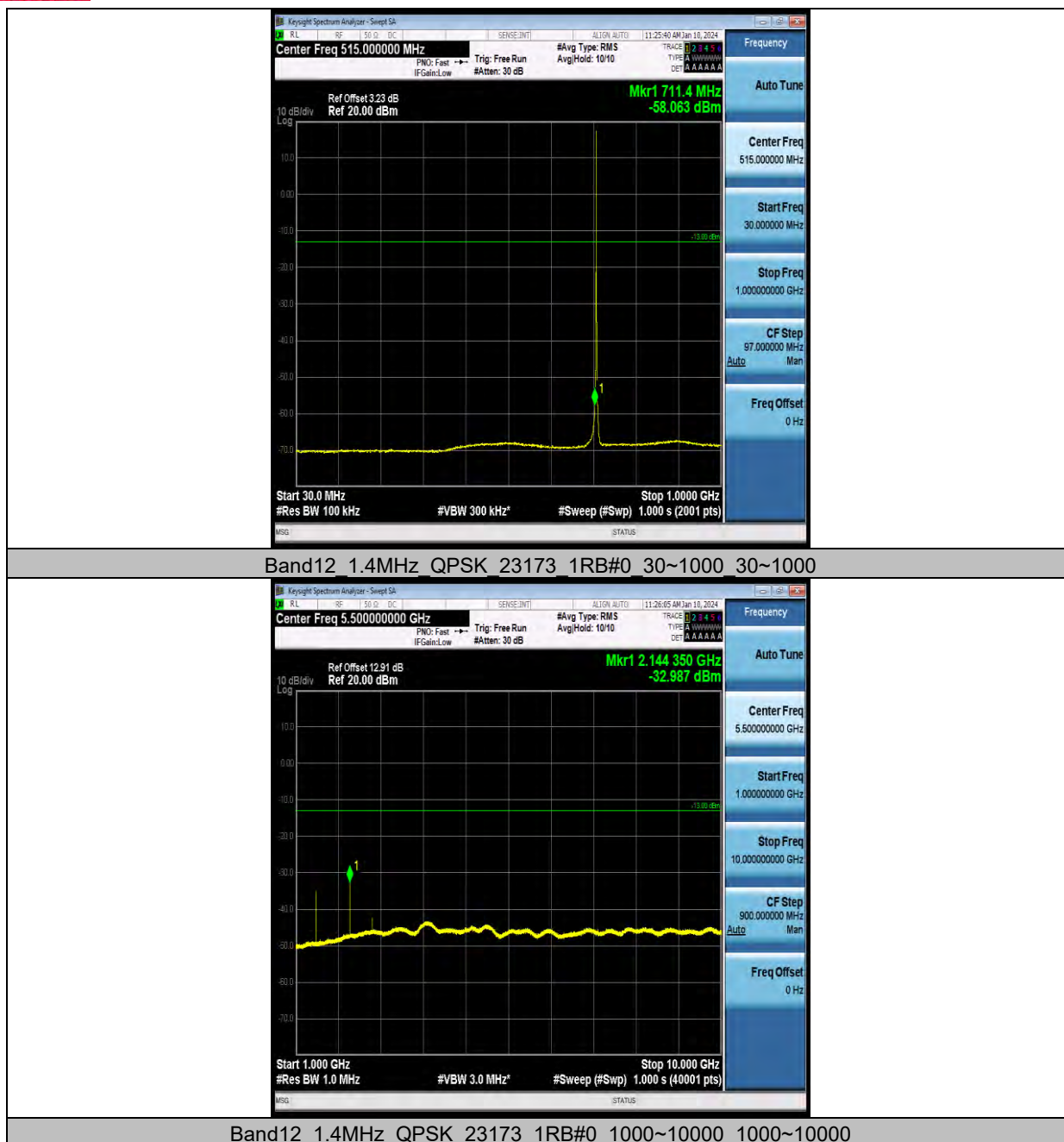
Test Result

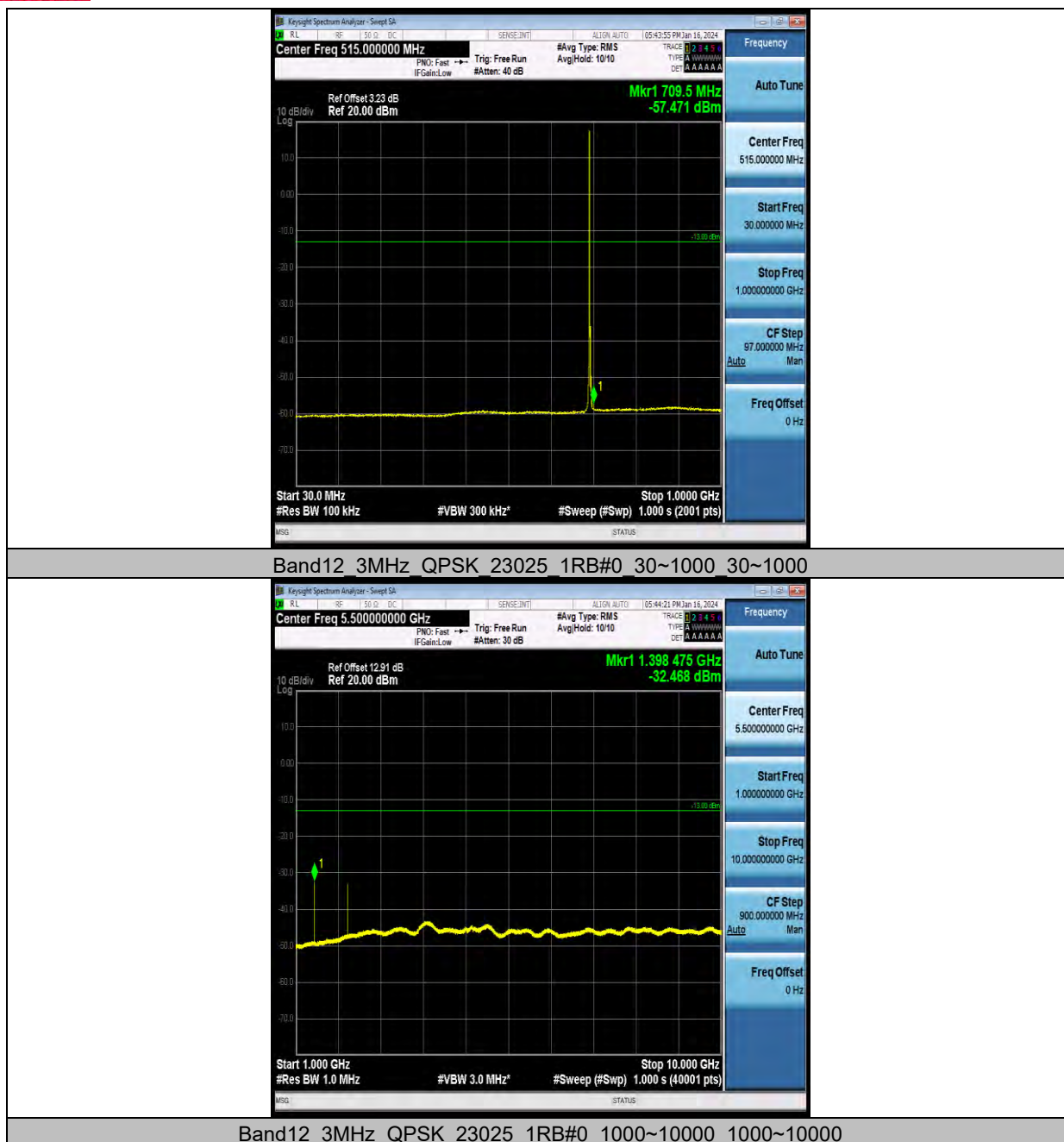
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-58.30	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~10000	-32.73	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-57.01	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~10000	-33.18	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-58.06	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~10000	-32.99	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-57.47	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~10000	-32.47	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-57.65	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~10000	-33.04	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-58.07	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~10000	-33.82	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-57.53	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~10000	-32.53	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-57.99	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~10000	-33.05	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-58.07	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~10000	-32.92	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-58.04	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~10000	-32.07	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-58.01	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~10000	-32.74	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-58.01	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~10000	-33.40	PASS

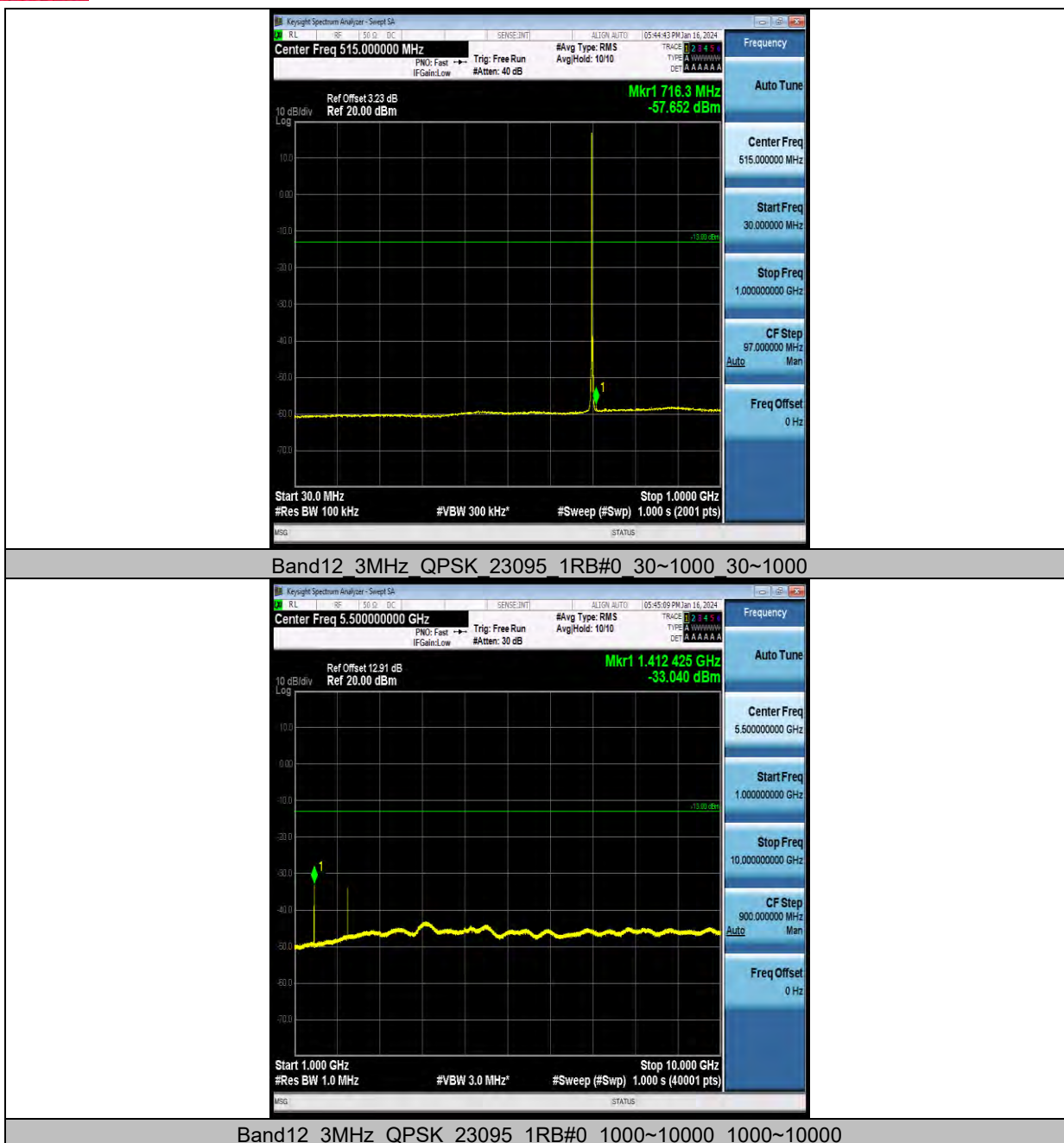
Test Graphs

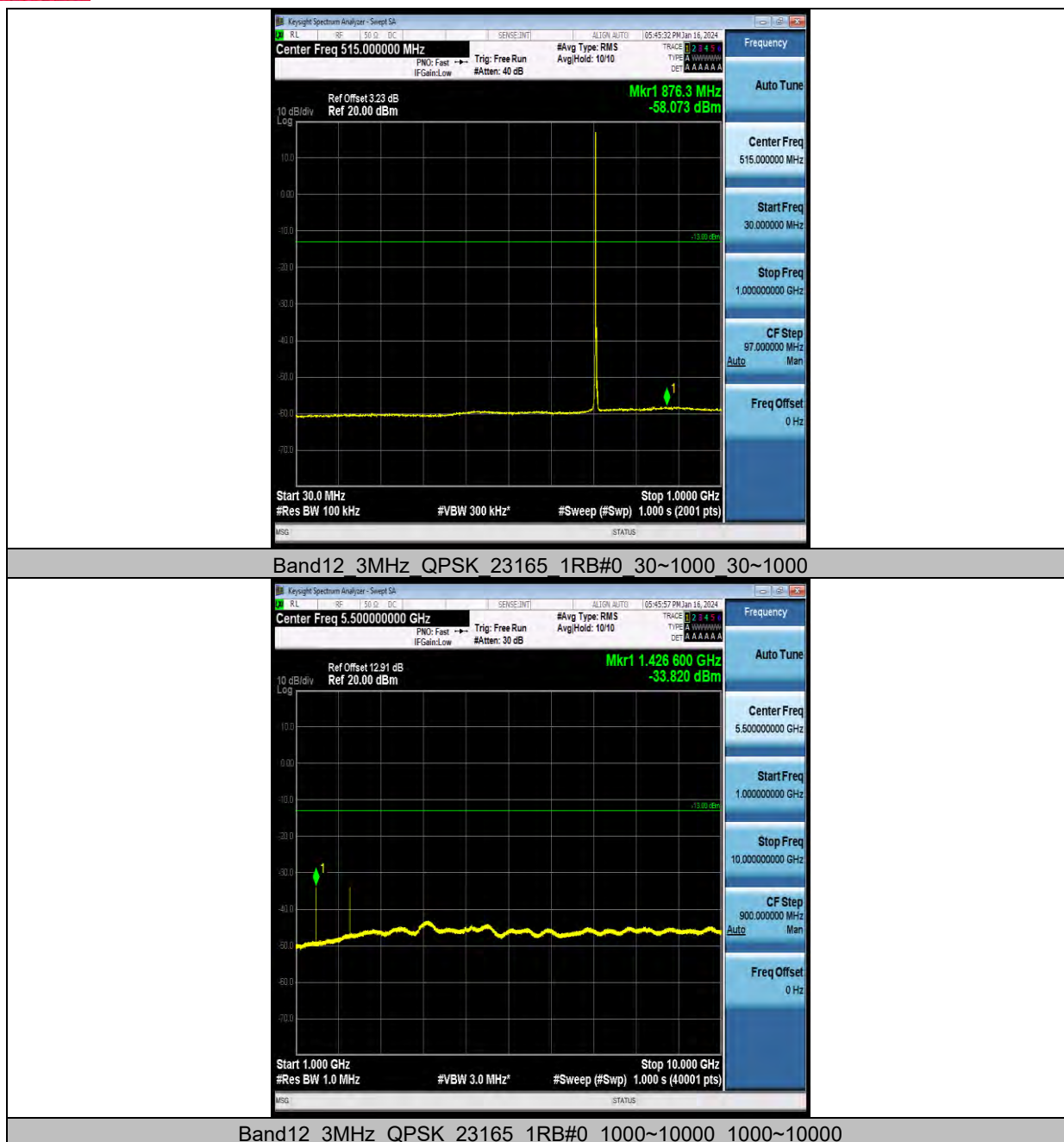


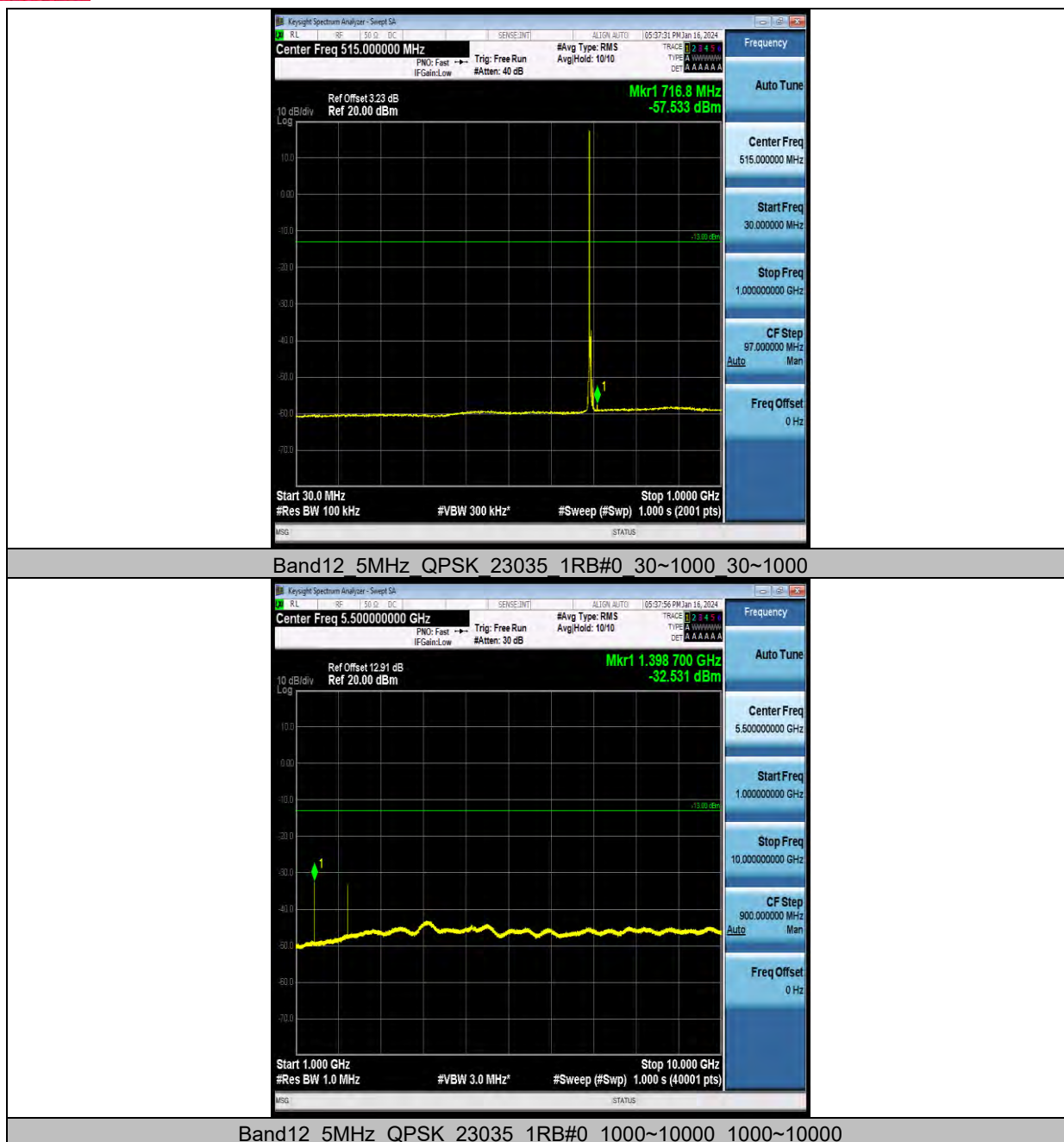


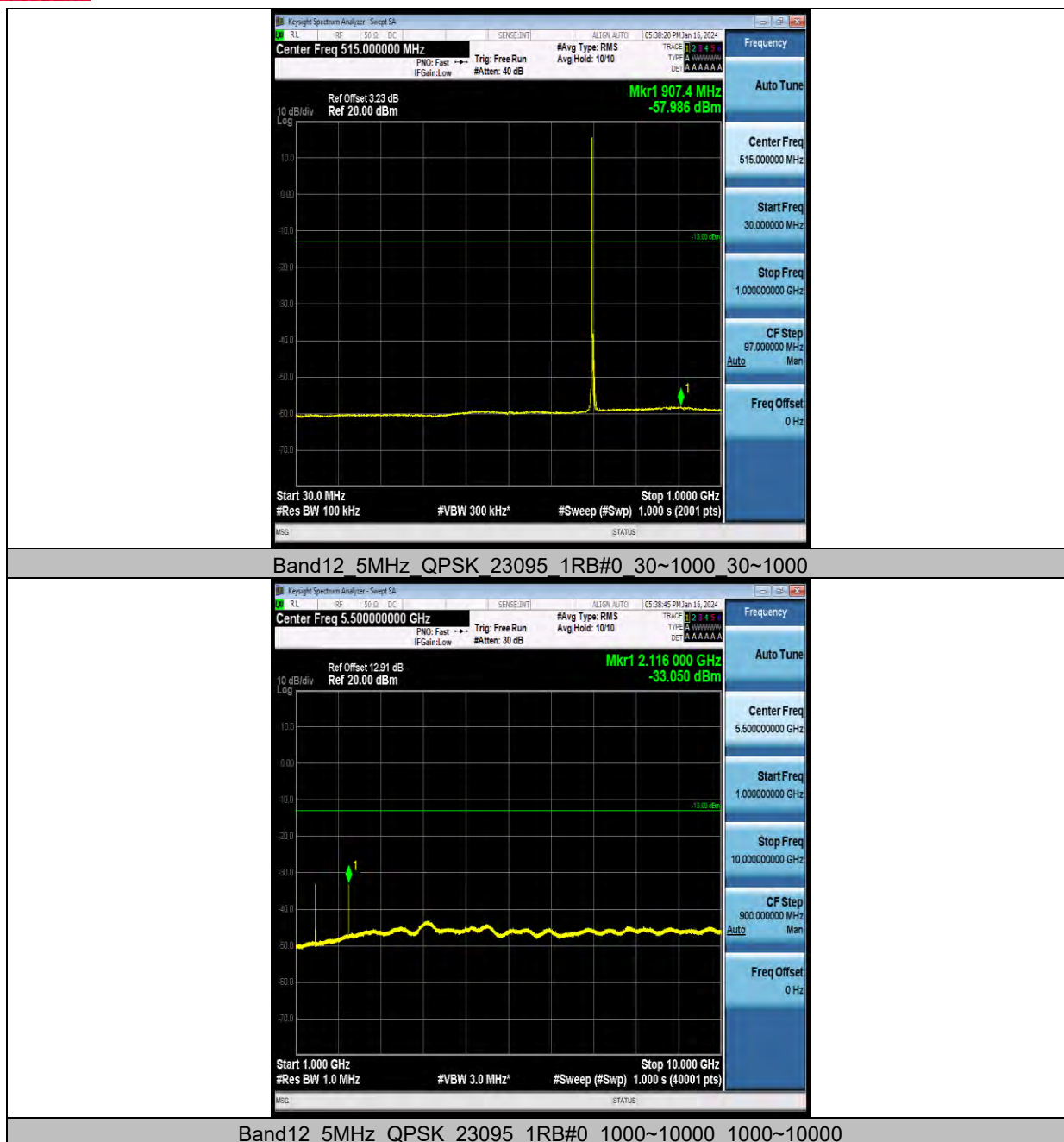


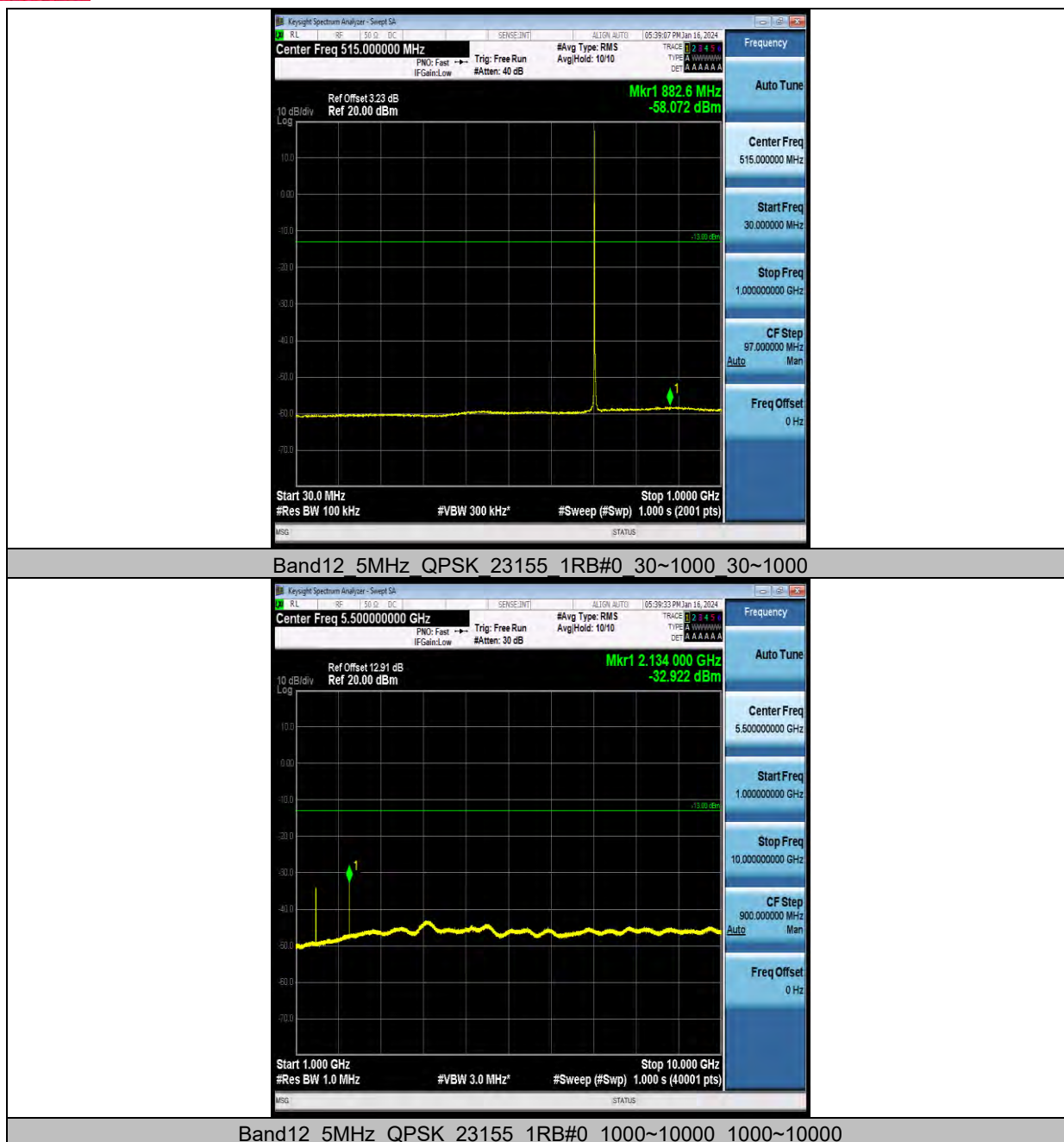


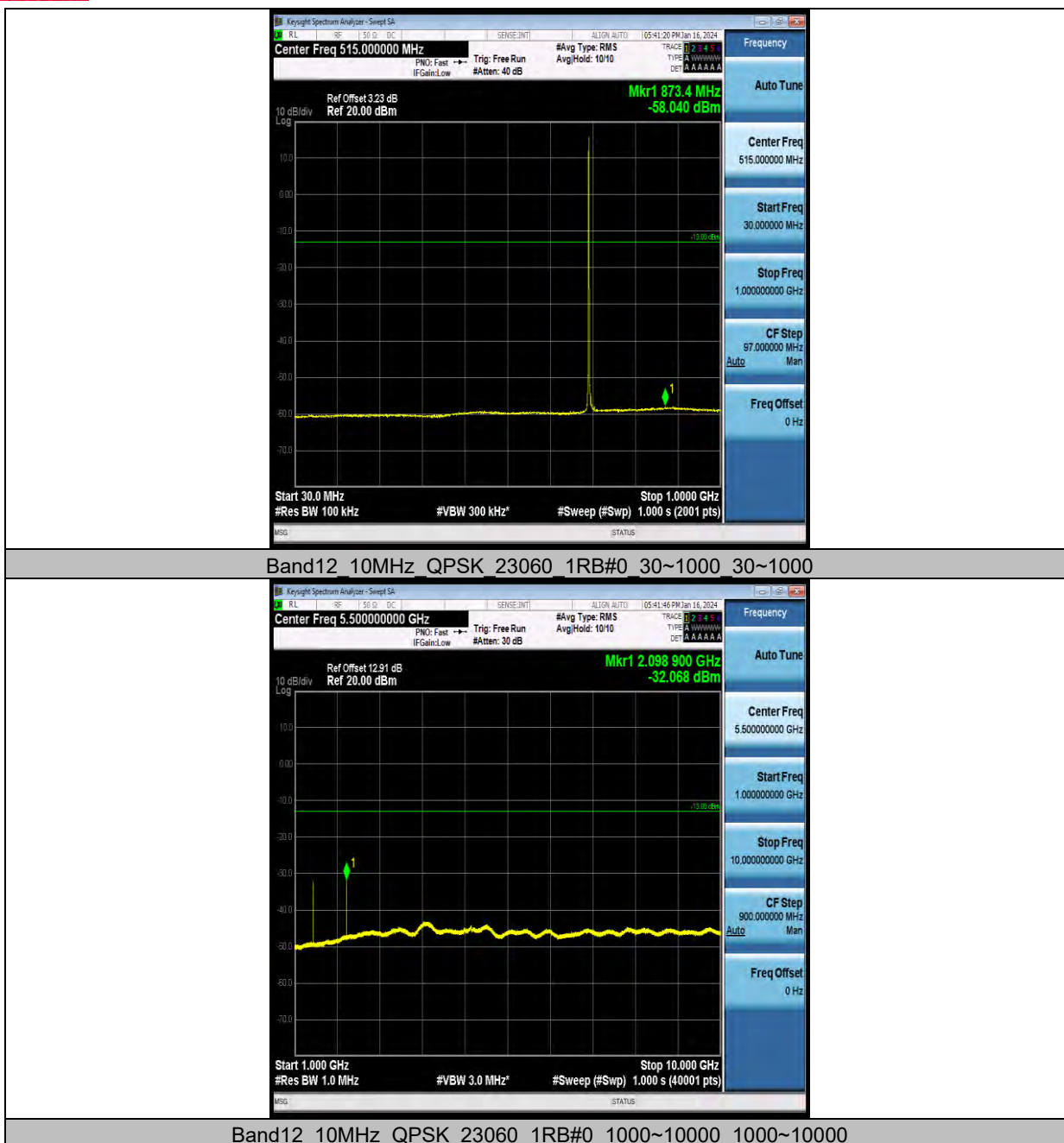


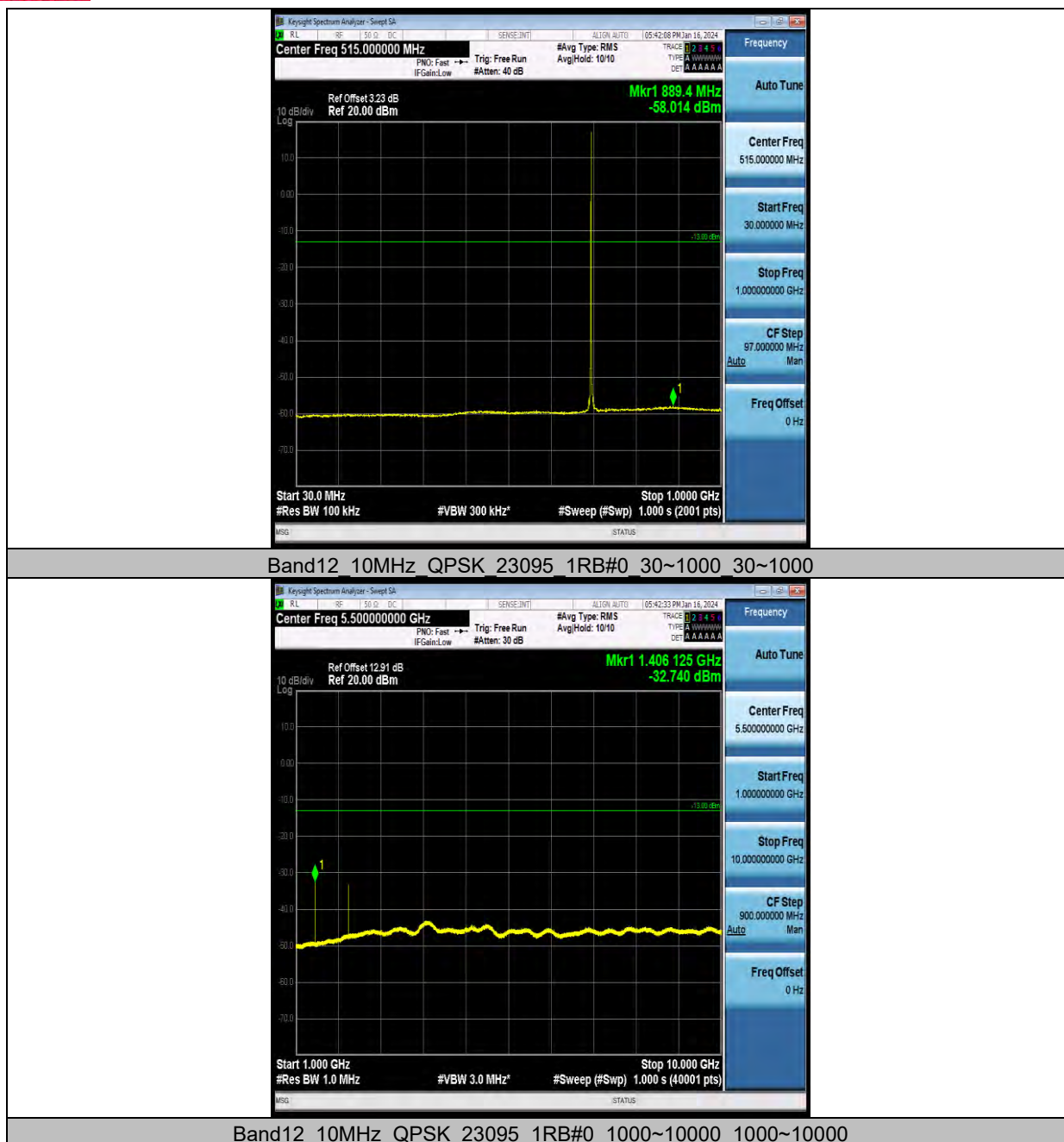


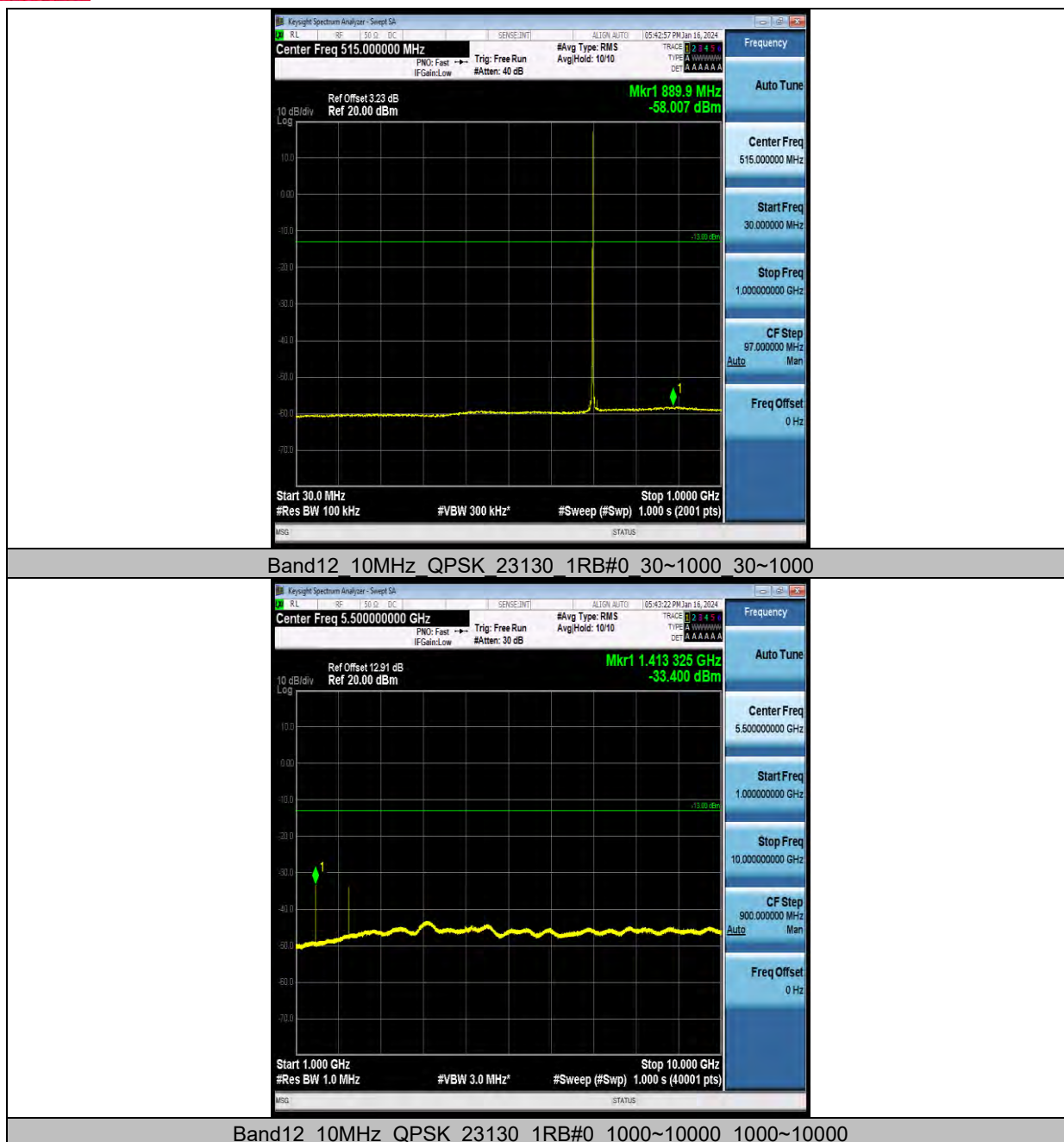












FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-0.92	-0.001307	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-3.23	-0.004588	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	3.25	0.004616	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.20	0.001696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	2.56	0.003618	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.12	-0.004410	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	2.23	0.003136	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	2.79	0.003924	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	2.82	0.003966	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	0.79	0.001122	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	2.59	0.003679	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	1.50	0.002131	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-1.62	-0.002290	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-1.23	-0.001739	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-1.47	-0.002078	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-2.43	-0.003418	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-2.29	-0.003221	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	1.56	0.002194	±2.5	PASS

Temperature										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	1.86	0.002642	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	2.05	0.002912	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	2.93	0.004162	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	2.65	0.003764	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-2.55	-0.003622	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	1.57	0.002230	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-1.24	-0.001761	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-2.13	-0.003026	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	2.19	0.003111	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.34	-0.001894	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.75	0.003887	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.33	-0.001880	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.55	-0.003604	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.39	-0.001965	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.82	-0.002572	±2.5	PASS

Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.17	-0.003067	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.53	-0.003576	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-1.79	-0.002518	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.85	-0.004008	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.46	-0.003460	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.15	-0.003024	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.06	-0.004304	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	3.03	0.004262	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-3.03	-0.004262	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.35	-0.004712	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.69	-0.002377	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	2.59	0.003679	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-1.33	-0.001889	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	2.19	0.003111	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-4.68	-0.006648	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	2.05	0.002912	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	1.82	0.002585	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-2.37	-0.003366	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	2.79	0.003963	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-2.53	-0.003594	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-2.93	-0.004141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-4.38	-0.006191	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-1.30	-0.001837	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-2.70	-0.003816	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.60	-0.002261	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	1.79	0.002530	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-2.02	-0.002855	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-0.73	-0.001032	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-1.83	-0.002587	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-3.91	-0.005499	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.47	-0.003474	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-2.32	-0.003263	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	3.09	0.004346	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-1.44	-0.002025	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-5.76	-0.008101	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-4.61	-0.006484	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.37	-0.001927	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-2.43	-0.003418	±2.5	PASS



Test Report No.: W7L-P23120020RF03

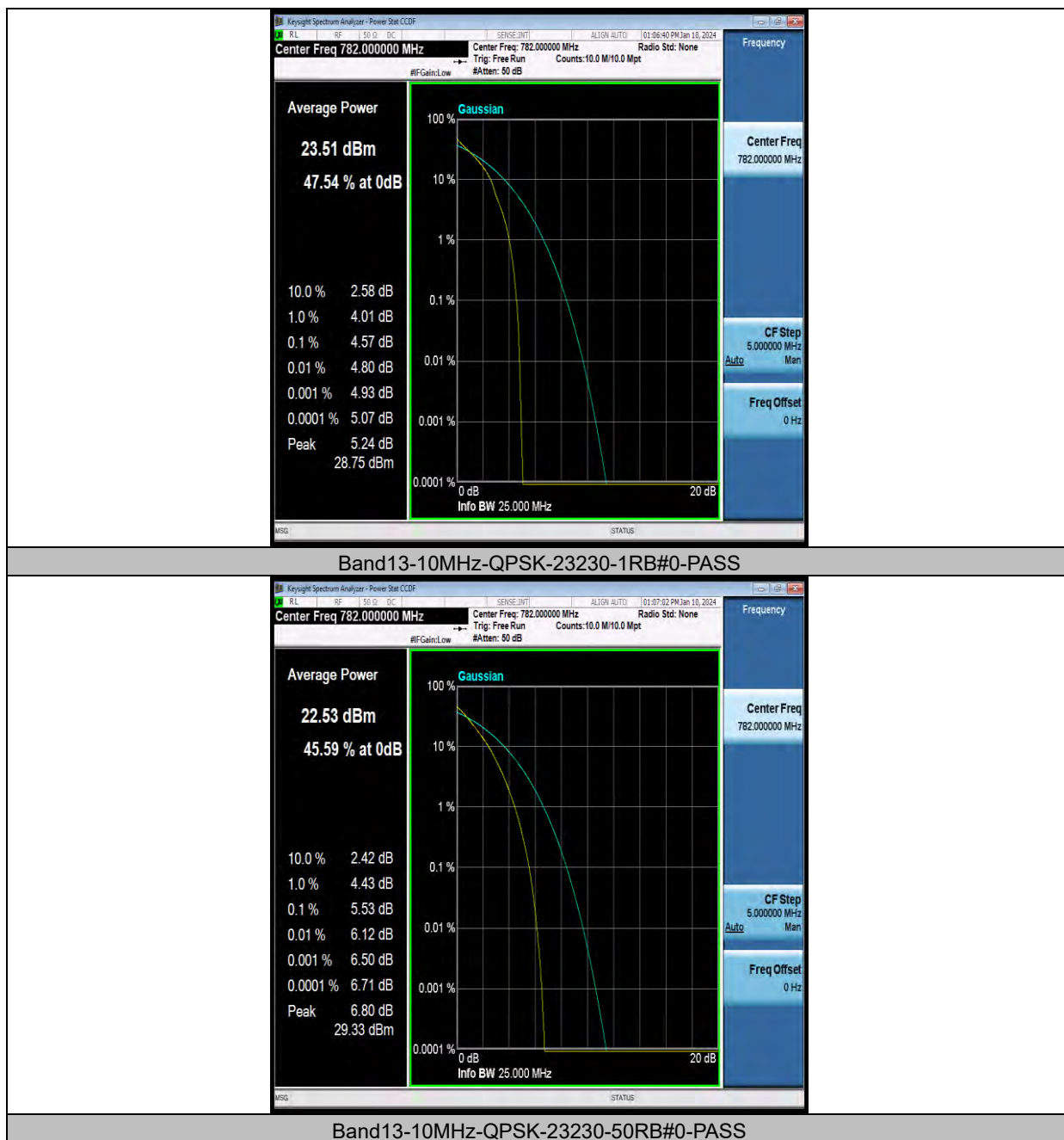
LTE BAND13

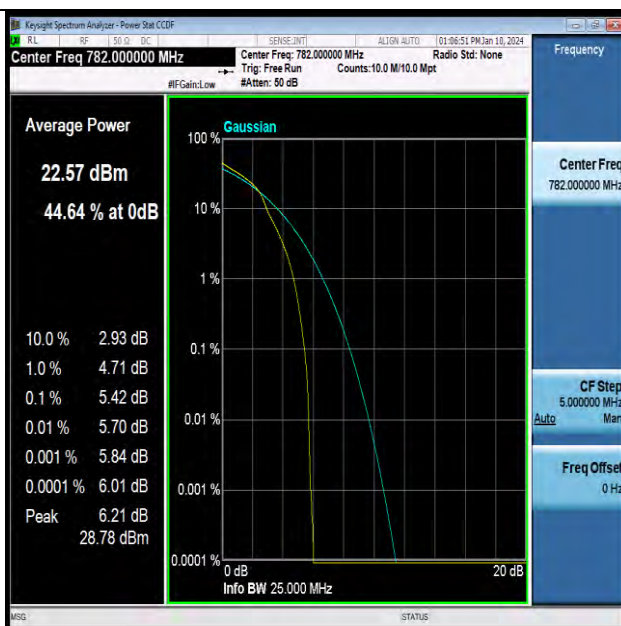
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

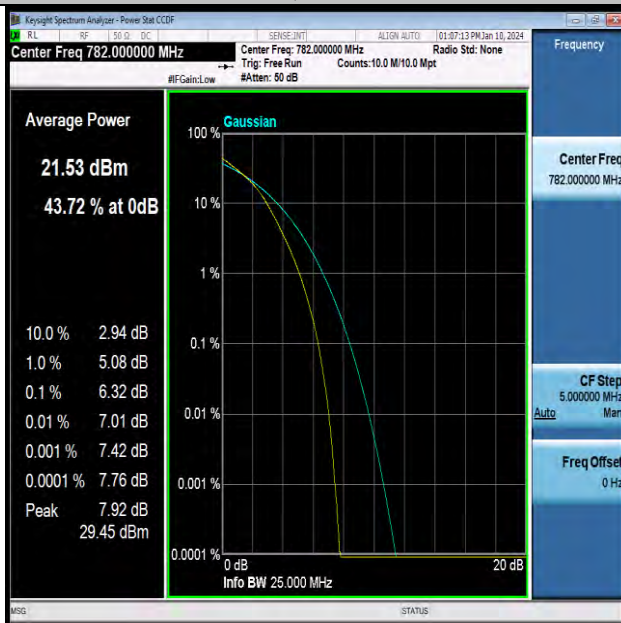
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	4.57	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.53	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.42	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.32	13	PASS

Test Graphs





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



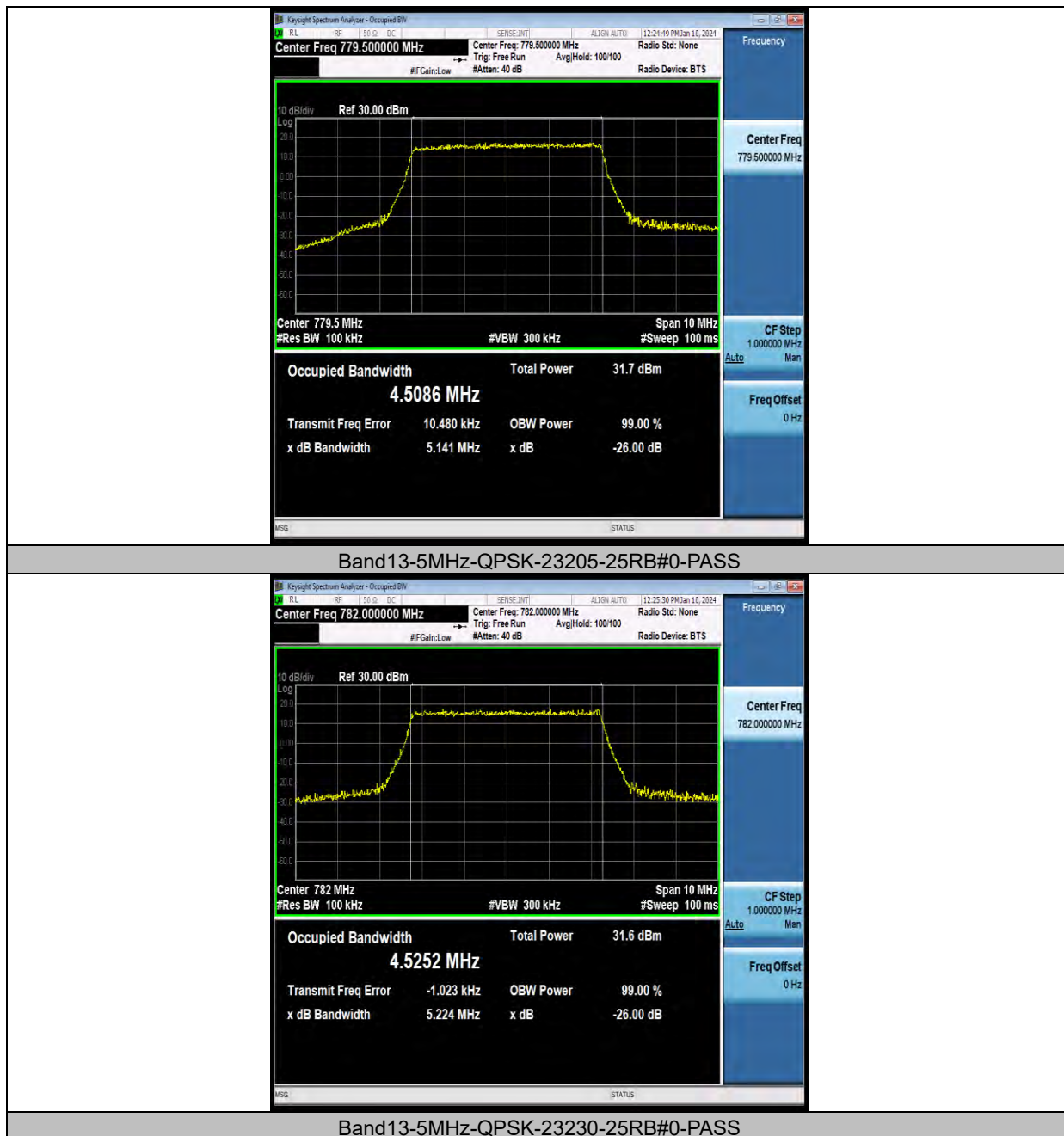
Band13-10MHz-16QAM-23230-50RB#0-PASS

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	4.5086	5.141	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5252	5.224	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5236	5.183	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5146	5.196	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5147	5.172	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5203	5.164	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9727	10.03	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9772	9.983	PASS

Test Graphs



Band13-5MHz-QPSK-23205-25RB#0-PASS

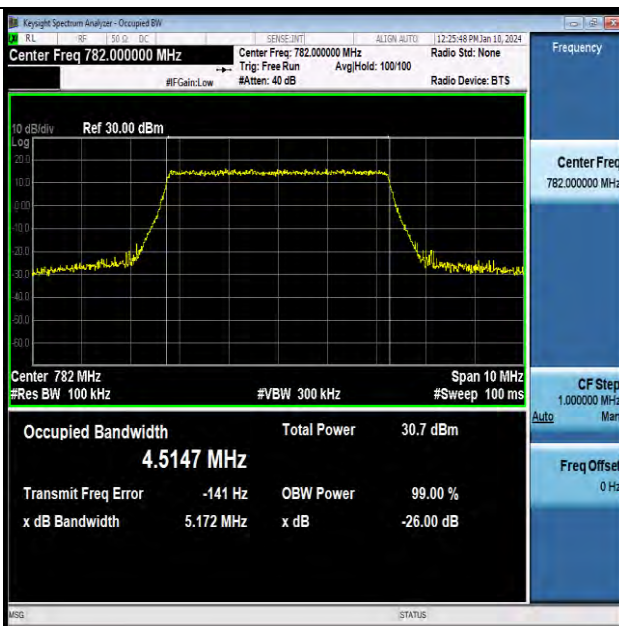
Band13-5MHz-QPSK-23230-25RB#0-PASS



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



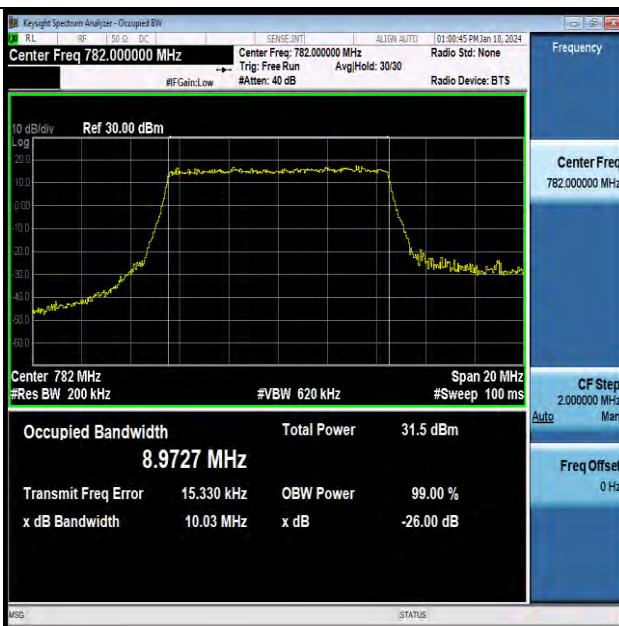
Band13-5MHz-16QAM-23205-25RB#0-PASS



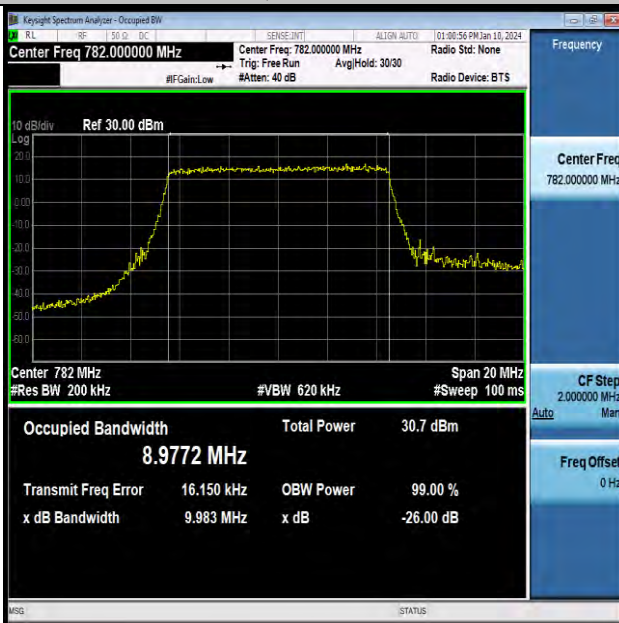
Band13-5MHz-16QAM-23230-25RB#0-PASS



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



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



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

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-67.66	PASS
Band13	5MHz	QPSK	23205	25RB#0	-52.44	PASS
Band13	5MHz	QPSK	23255	1RB#24	-67.82	PASS
Band13	5MHz	QPSK	23255	25RB#0	-54.44	PASS
Band13	5MHz	16QAM	23205	1RB#0	-67.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	-53.79	PASS
Band13	5MHz	16QAM	23255	1RB#24	-67.74	PASS
Band13	5MHz	16QAM	23255	25RB#0	-55.71	PASS
Band13	10MHz	QPSK	23230	1RB#0	-67.17	PASS
Band13	10MHz	QPSK	23230	1RB#49	-67.60	PASS
Band13	10MHz	QPSK	23230	50RB#0	-51.57	PASS
Band13	10MHz	16QAM	23230	1RB#0	-67.63	PASS
Band13	10MHz	16QAM	23230	1RB#49	-68.05	PASS
Band13	10MHz	16QAM	23230	50RB#0	-53.17	PASS

Test Graphs

