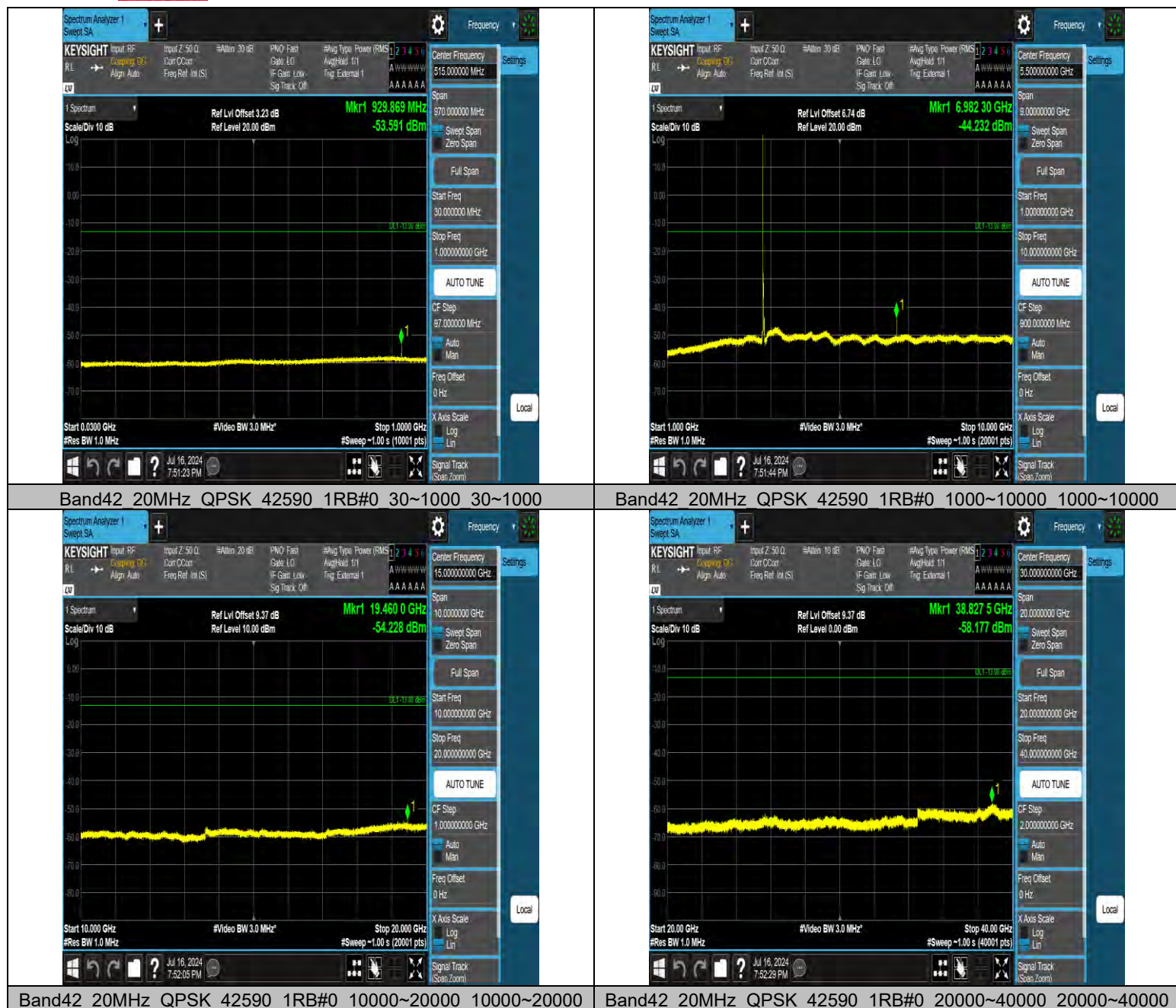


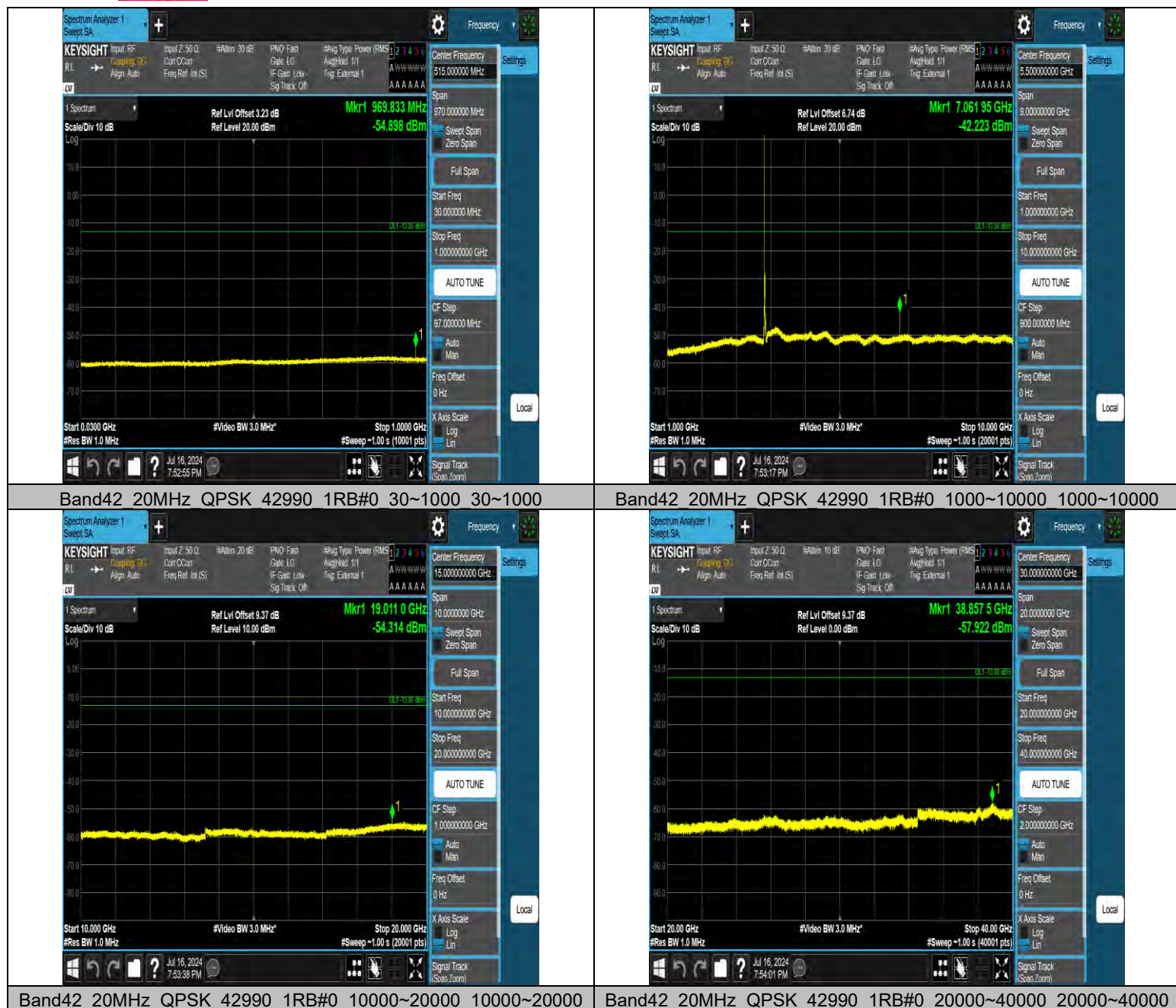


Test Report No.: W7L-240618W001RF08





Test Report No.: W7L-240618W001RF08



FREQUENCY STABILITY

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
42(3450-3550)	10MHz	QPSK	42140	50RB #0	VN	NT	-20.00	-0.005789	3450.52948	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	VL	NT	-30.00	-0.008683	3450.52932	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	VH	NT	-30.00	-0.008683	3450.52922	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB #0	VN	NT	-2060.00	-0.581100	---	3549.46519	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB #0	VL	NT	-2450.00	-0.691114	---	3549.46535	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB #0	VH	NT	-1820.00	-0.513399	---	3549.46538	3450-3550	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	-30	30.00	0.008683	3450.52943	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	-20	-370.00	-0.107091	3450.52933	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	-10	-280.00	-0.081042	3450.52912	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	0	-250.00	-0.072359	3450.52945	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	10	-430.00	-0.124457	3450.52927	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	20	-520.00	-0.150507	3450.52878	---	3450-3550	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB #0	NV	30	-60.00	-0.017	3450.52878	---	3450-3550	PASS



**BUREAU
VERITAS**

Test Report No.: W7L-240618W001RF08

50-35 50)	z			#0				366	52929		3550	
42(34 50-35 50)	10MH z	QPSK	42140	50RB #0	NV	40	-230.0 0	-0.066 570	3450. 52932	---	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	42140	50RB #0	NV	50	0.00	0.000 000	3450. 52925	---	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	-30	-1990. 00	-0.561 354	---	3549. 46541	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	-20	-1780. 00	-0.502 116	---	3549. 46537	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	-10	-1900. 00	-0.535 966	---	3549. 46515	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	0	-1660. 00	-0.468 265	---	3549. 46544	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	10	-2000. 00	-0.564 175	---	3549. 4652	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	20	-1760. 00	-0.496 474	---	3549. 46559	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	30	-2320. 00	-0.654 443	---	3549. 46553	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	40	-1870. 00	-0.527 504	---	3549. 46548	3450- 3550	PASS
42(34 50-35 50)	10MH z	QPSK	43040	50RB #0	NV	50	-2040. 00	-0.575 458	---	3549. 46526	3450- 3550	PASS



Test Report No.: W7L-240618W001RF08

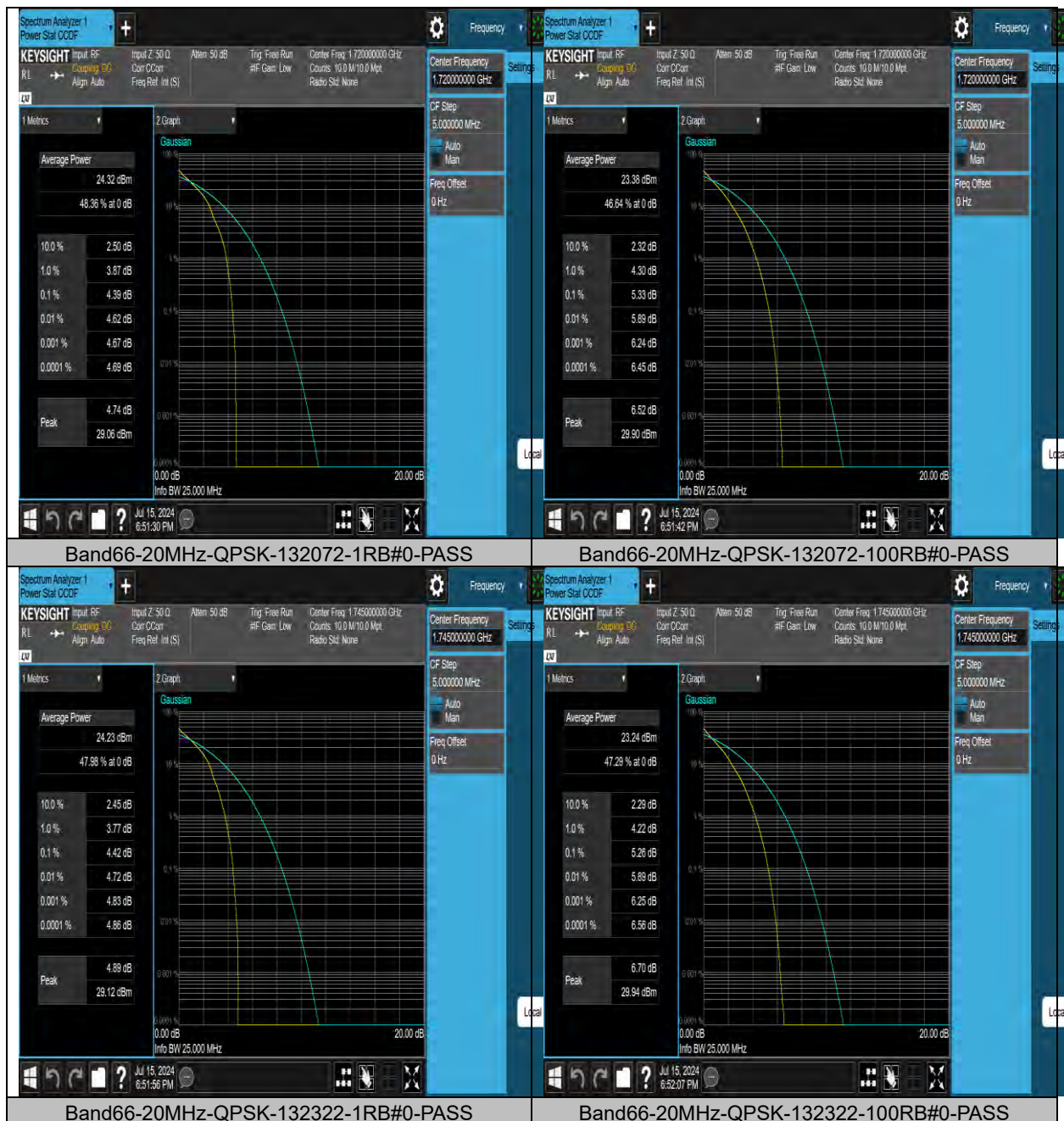
LTE BAND 66(INCLUDING LTE BAND4)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	4.39	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.33	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	4.42	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.26	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	4.63	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.25	13	PASS

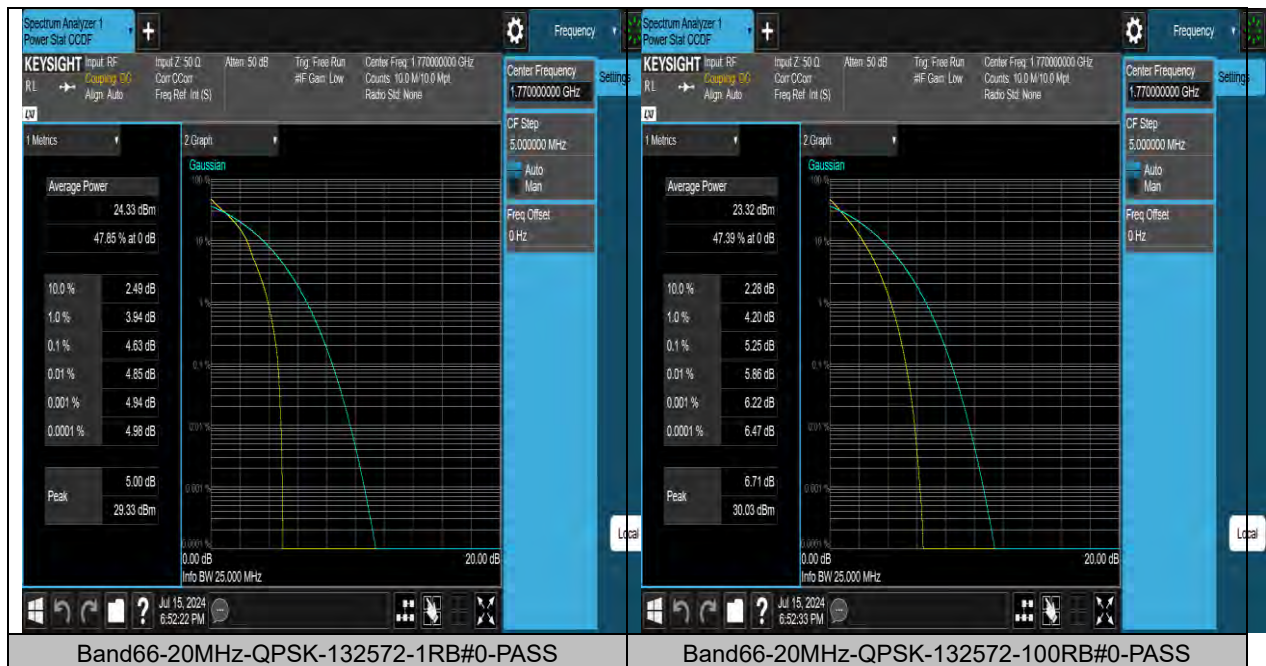
Test Graphs





BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08

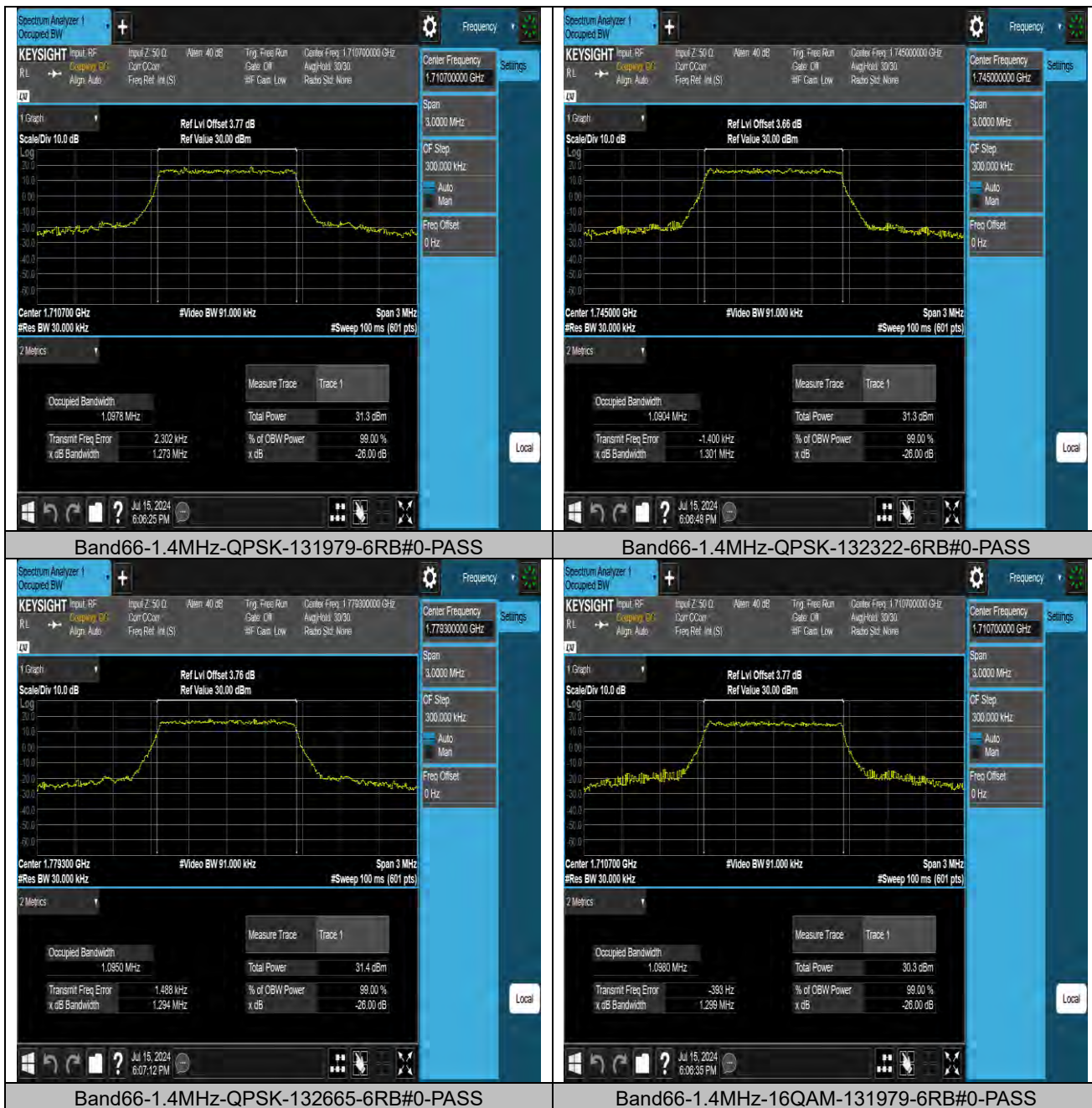


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.0978	1.273	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.0904	1.301	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.0950	1.294	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.0980	1.299	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.0951	1.309	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0876	1.318	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.6917	2.922	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.6893	2.923	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.6876	2.907	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6967	2.934	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.6854	2.932	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.6863	2.933	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.5052	5.015	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.4960	4.985	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.5021	5.013	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.5039	5.006	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.4894	4.959	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.4962	4.962	PASS
Band66	10MHz	QPSK	132022	50RB#0	9.0097	9.802	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.9895	9.774	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.9840	9.729	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.9769	9.824	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.9907	9.796	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.9878	9.815	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.485	14.78	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.461	14.61	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.479	14.76	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.463	14.57	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.451	14.68	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.475	14.58	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.994	19.46	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.901	19.50	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.974	19.48	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.928	19.35	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.915	19.38	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.916	19.43	PASS

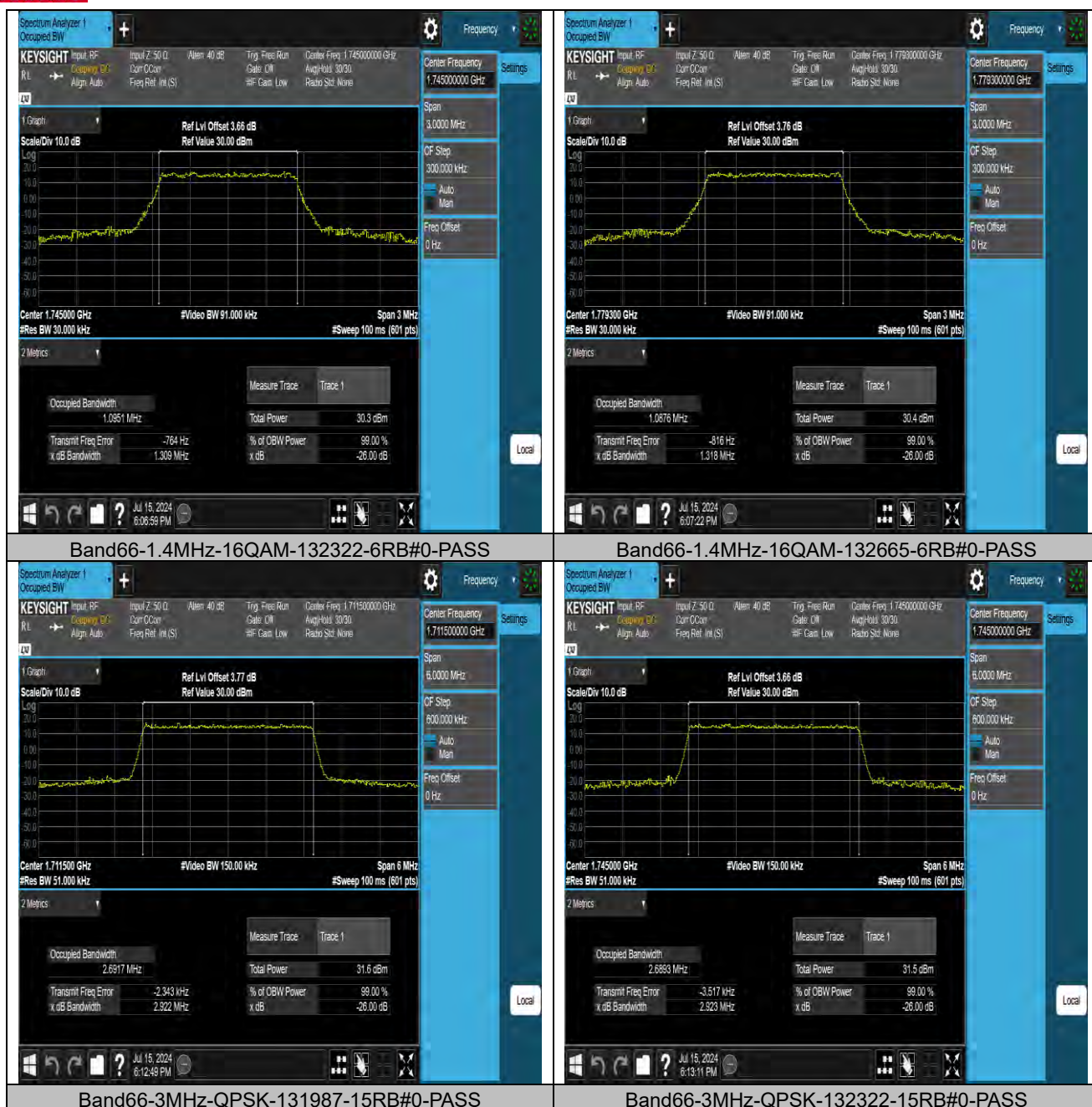
Test Graphs





BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08



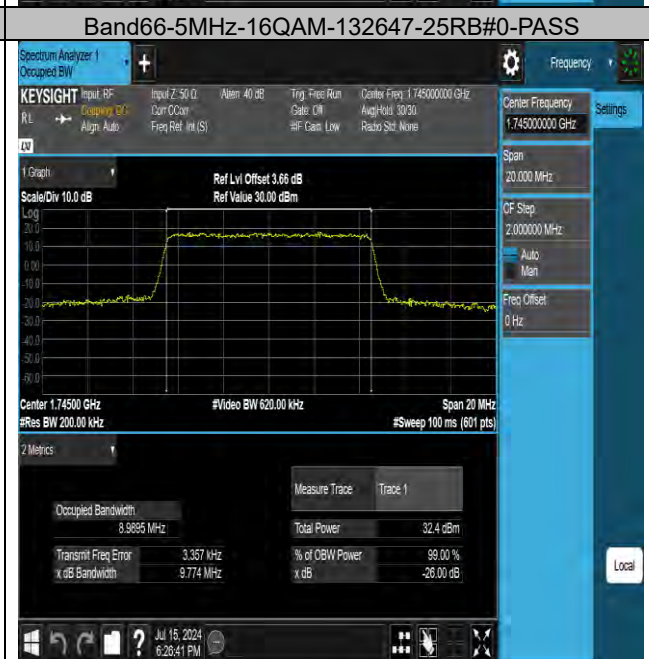
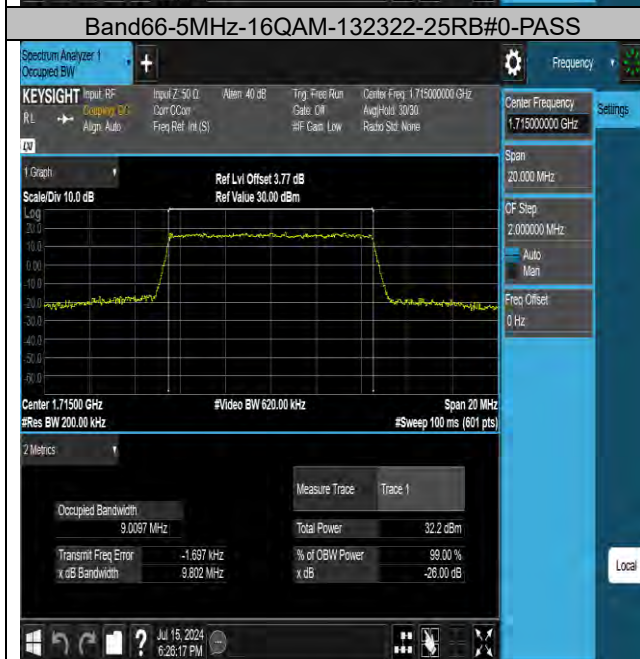
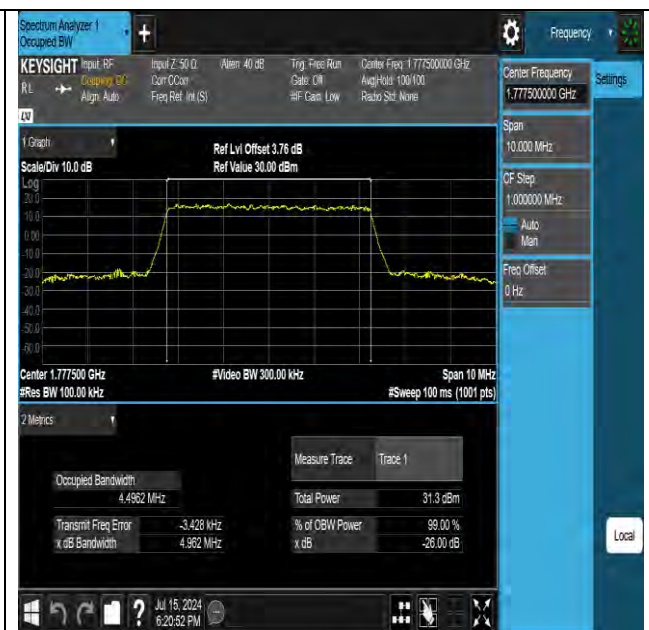


BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08



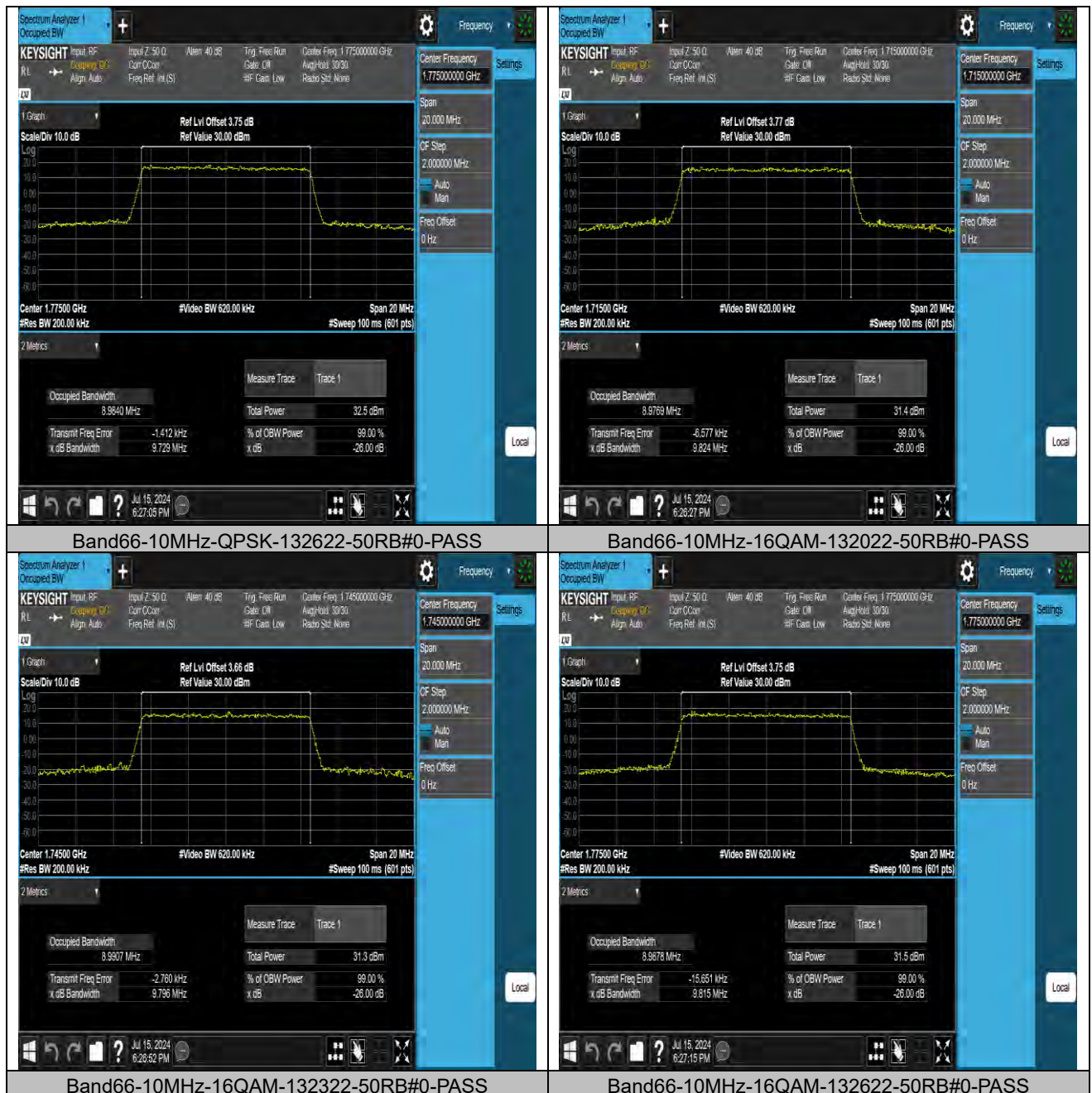


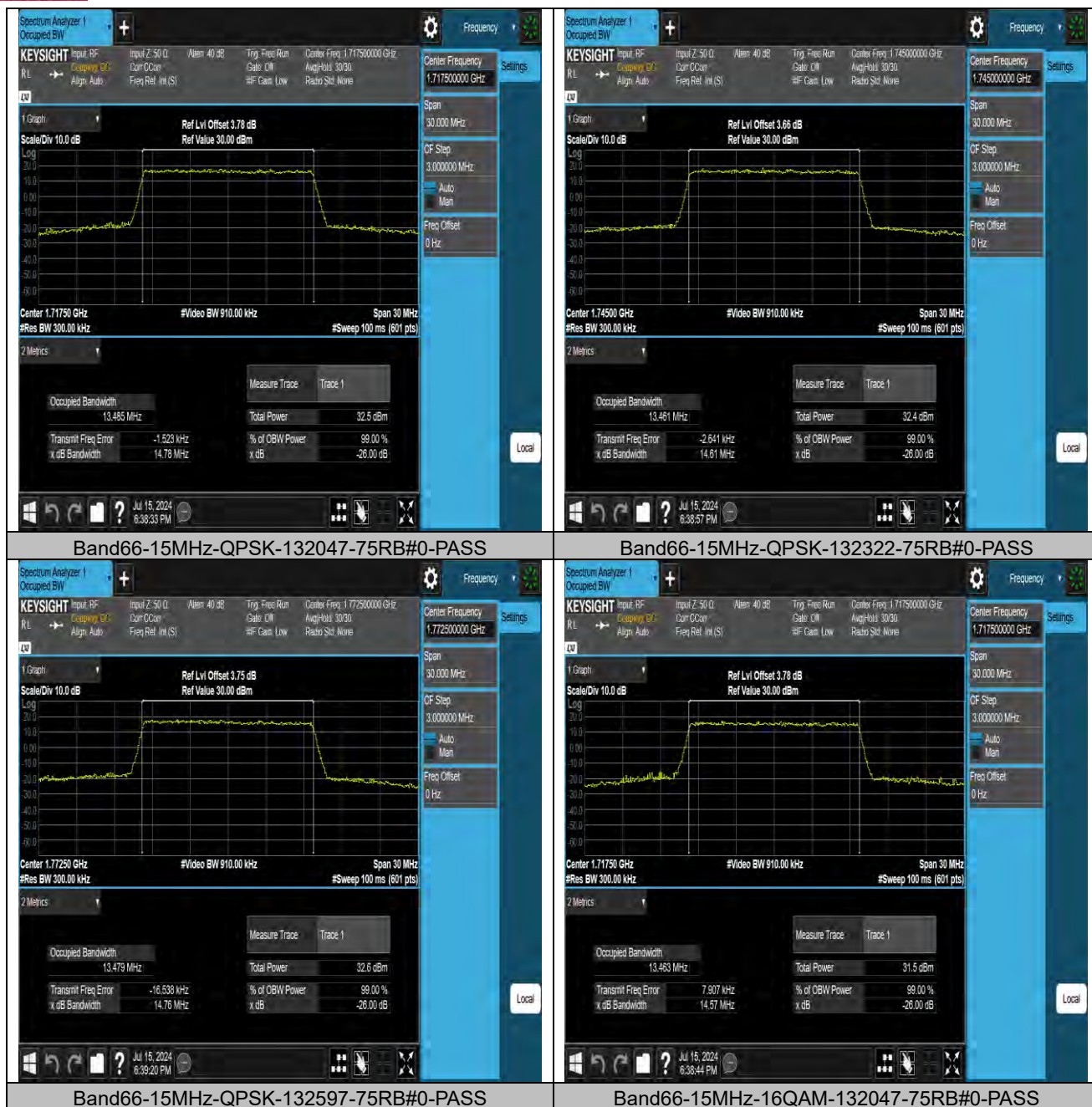




BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08

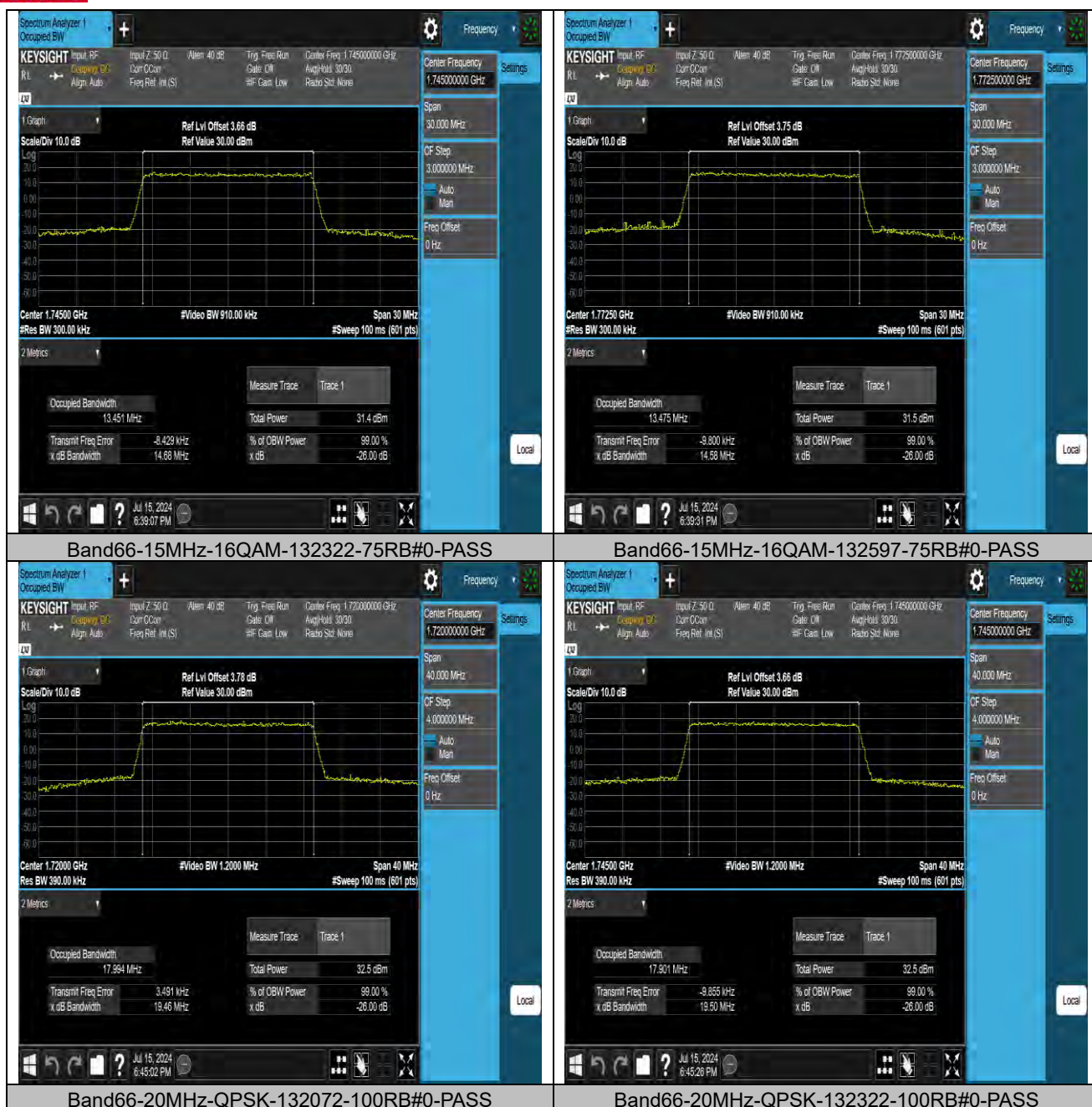






BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08





Band66-20MHz-QPSK-132572-100RB#0-PASS

Band66-20MHz-16QAM-132072-100RB#0-PASS



Band66-20MHz-16QAM-132322-100RB#0-PASS

Band66-20MHz-16QAM-132572-100RB#0-PASS

BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	-23.62	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	-26.33	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	-23.25	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	-27.02	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	-27.22	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	-27.69	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	-25.80	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	-27.95	PASS
Band66	3MHz	QPSK	131987	1RB#0	-21.44	PASS
Band66	3MHz	QPSK	131987	15RB#0	-22.08	PASS
Band66	3MHz	QPSK	132657	1RB#14	-22.29	PASS
Band66	3MHz	QPSK	132657	15RB#0	-22.68	PASS
Band66	3MHz	16QAM	131987	1RB#0	-23.80	PASS
Band66	3MHz	16QAM	131987	15RB#0	-22.95	PASS
Band66	3MHz	16QAM	132657	1RB#14	-24.13	PASS
Band66	3MHz	16QAM	132657	15RB#0	-23.50	PASS
Band66	5MHz	QPSK	131997	1RB#0	-24.60	PASS
Band66	5MHz	QPSK	131997	25RB#0	-23.14	PASS
Band66	5MHz	QPSK	132647	1RB#24	-23.90	PASS
Band66	5MHz	QPSK	132647	25RB#0	-23.96	PASS
Band66	5MHz	16QAM	131997	1RB#0	-25.73	PASS
Band66	5MHz	16QAM	131997	25RB#0	-24.26	PASS
Band66	5MHz	16QAM	132647	1RB#24	-25.84	PASS
Band66	5MHz	16QAM	132647	25RB#0	-24.84	PASS
Band66	10MHz	QPSK	132022	1RB#0	-33.36	PASS
Band66	10MHz	QPSK	132022	50RB#0	-25.66	PASS
Band66	10MHz	QPSK	132622	1RB#49	-33.07	PASS
Band66	10MHz	QPSK	132622	50RB#0	-25.67	PASS
Band66	10MHz	16QAM	132022	1RB#0	-34.34	PASS
Band66	10MHz	16QAM	132022	50RB#0	-26.55	PASS
Band66	10MHz	16QAM	132622	1RB#49	-34.18	PASS
Band66	10MHz	16QAM	132622	50RB#0	-27.14	PASS
Band66	15MHz	QPSK	132047	1RB#0	-36.75	PASS
Band66	15MHz	QPSK	132047	75RB#0	-26.31	PASS
Band66	15MHz	QPSK	132597	1RB#74	-36.67	PASS
Band66	15MHz	QPSK	132597	75RB#0	-26.85	PASS
Band66	15MHz	16QAM	132047	1RB#0	-37.44	PASS
Band66	15MHz	16QAM	132047	75RB#0	-27.70	PASS
Band66	15MHz	16QAM	132597	1RB#74	-37.26	PASS
Band66	15MHz	16QAM	132597	75RB#0	-28.77	PASS
Band66	20MHz	QPSK	132072	1RB#0	-41.17	PASS
Band66	20MHz	QPSK	132072	100RB#0	-27.95	PASS
Band66	20MHz	QPSK	132572	1RB#99	-40.25	PASS
Band66	20MHz	QPSK	132572	100RB#0	-28.37	PASS

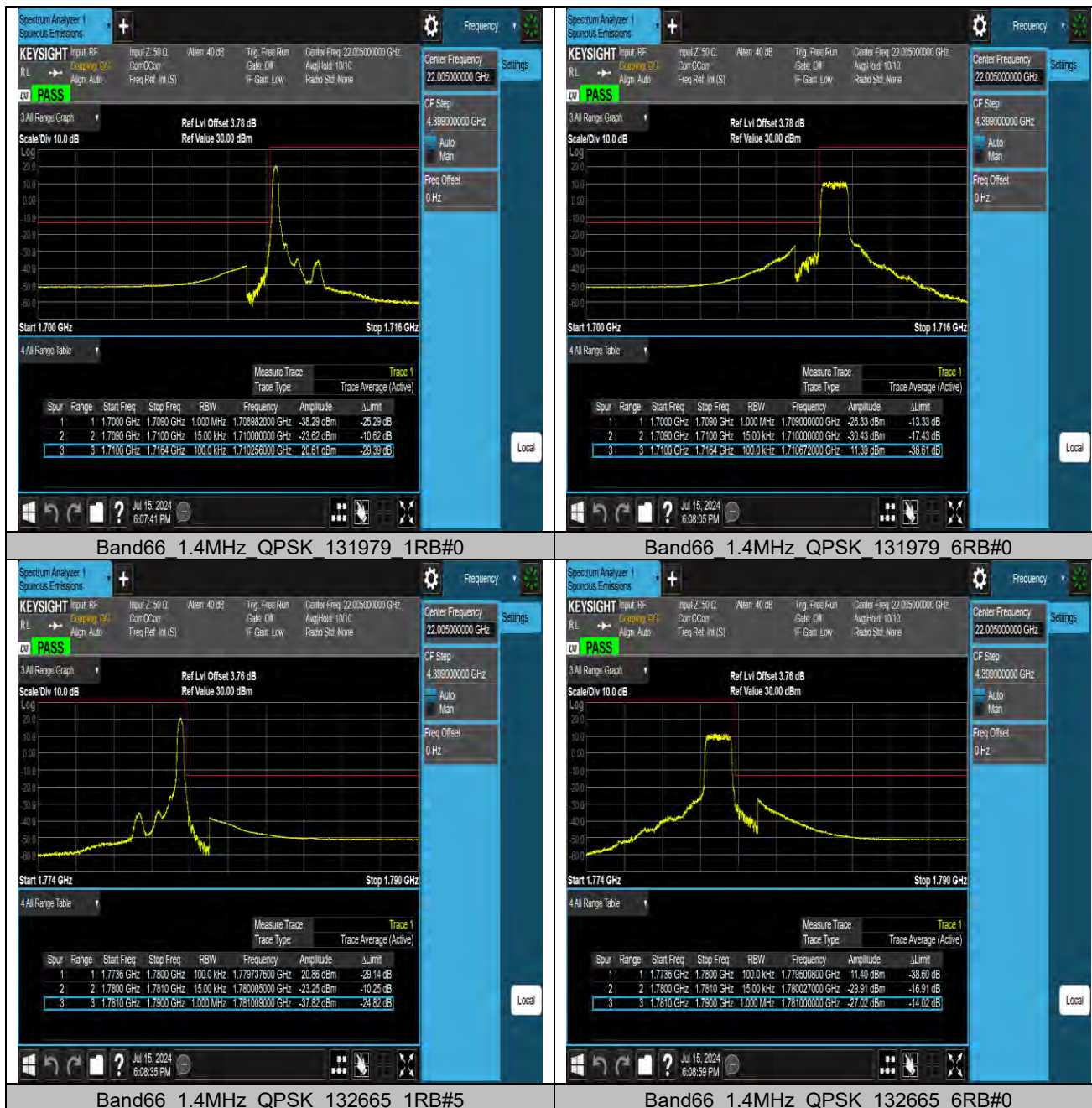


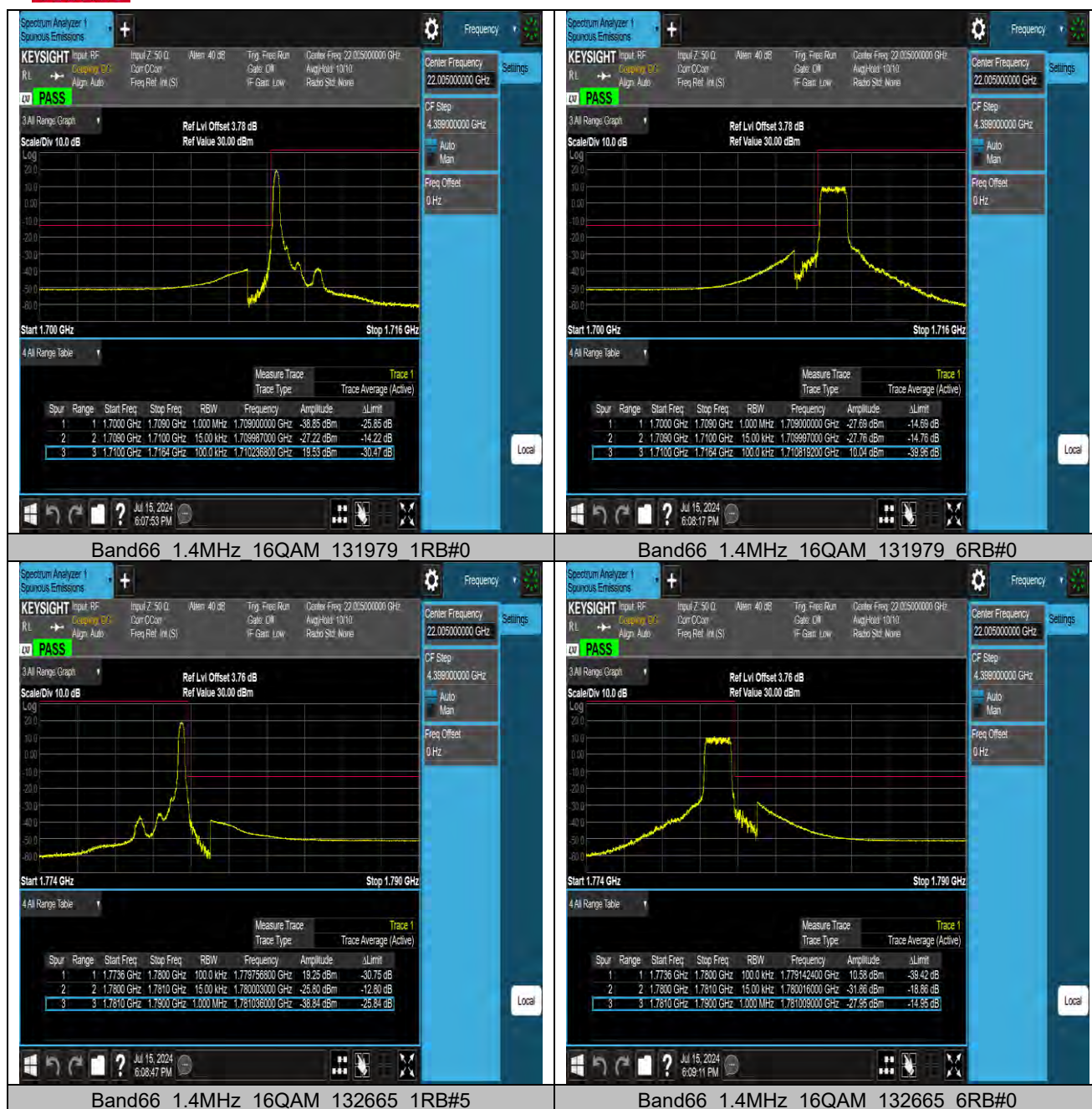
**BUREAU
VERITAS**

Test Report No.: W7L-240618W001RF08

Band66	20MHz	16QAM	132072	1RB#0	-41.70	PASS
Band66	20MHz	16QAM	132072	100RB#0	-29.02	PASS
Band66	20MHz	16QAM	132572	1RB#99	-42.04	PASS
Band66	20MHz	16QAM	132572	100RB#0	-30.67	PASS

Test Graphs

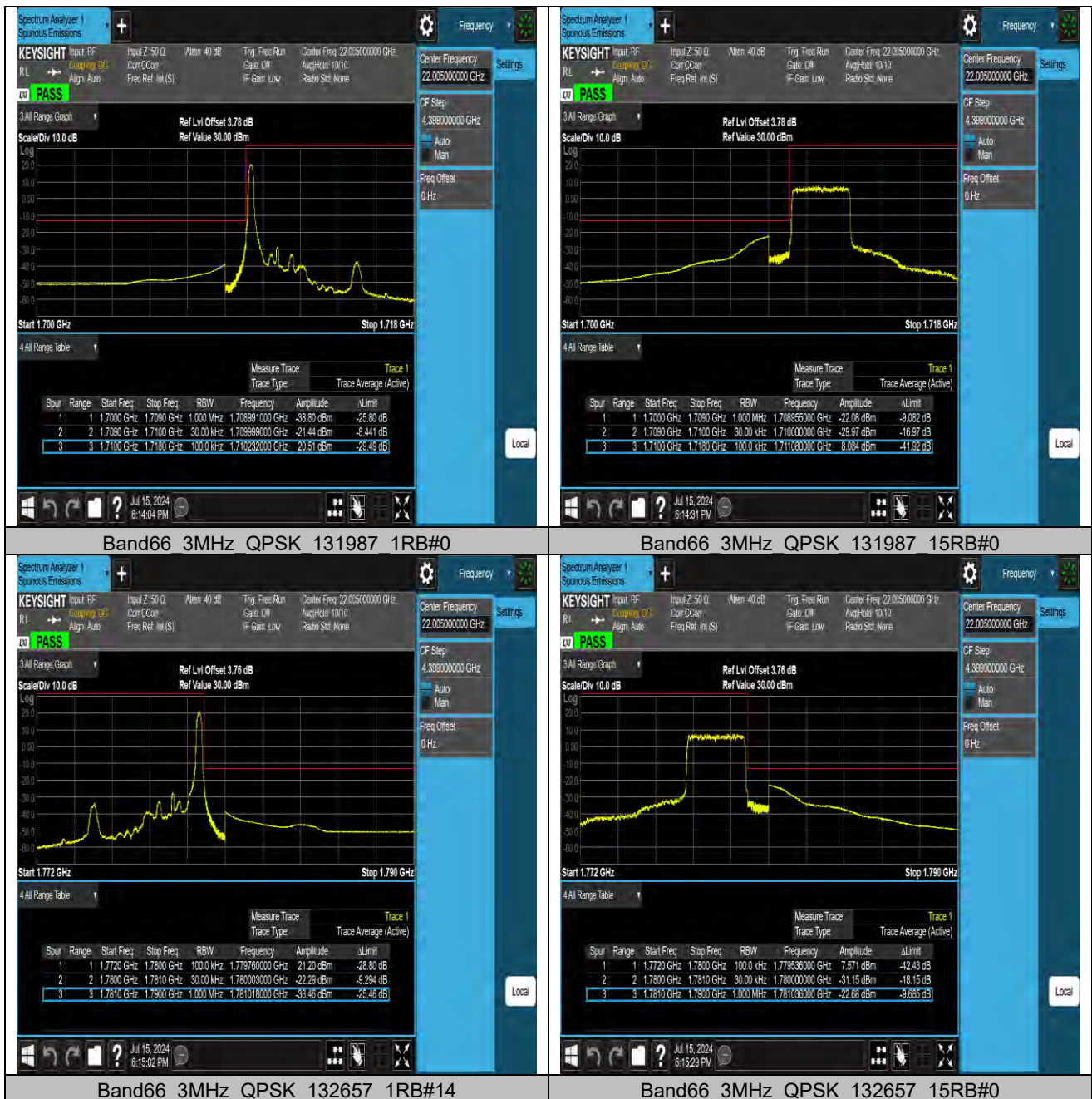






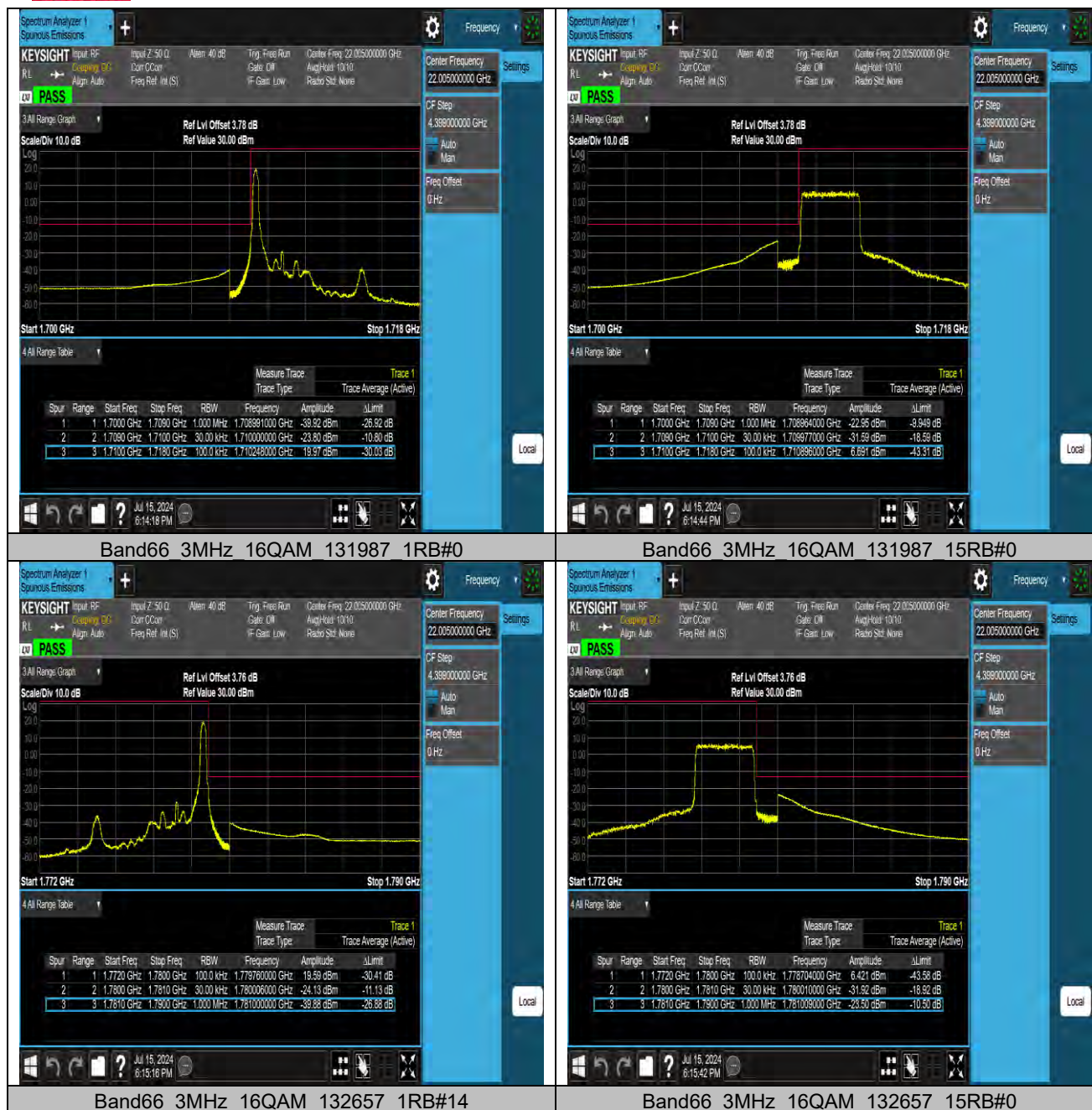
BUREAU
VERITAS

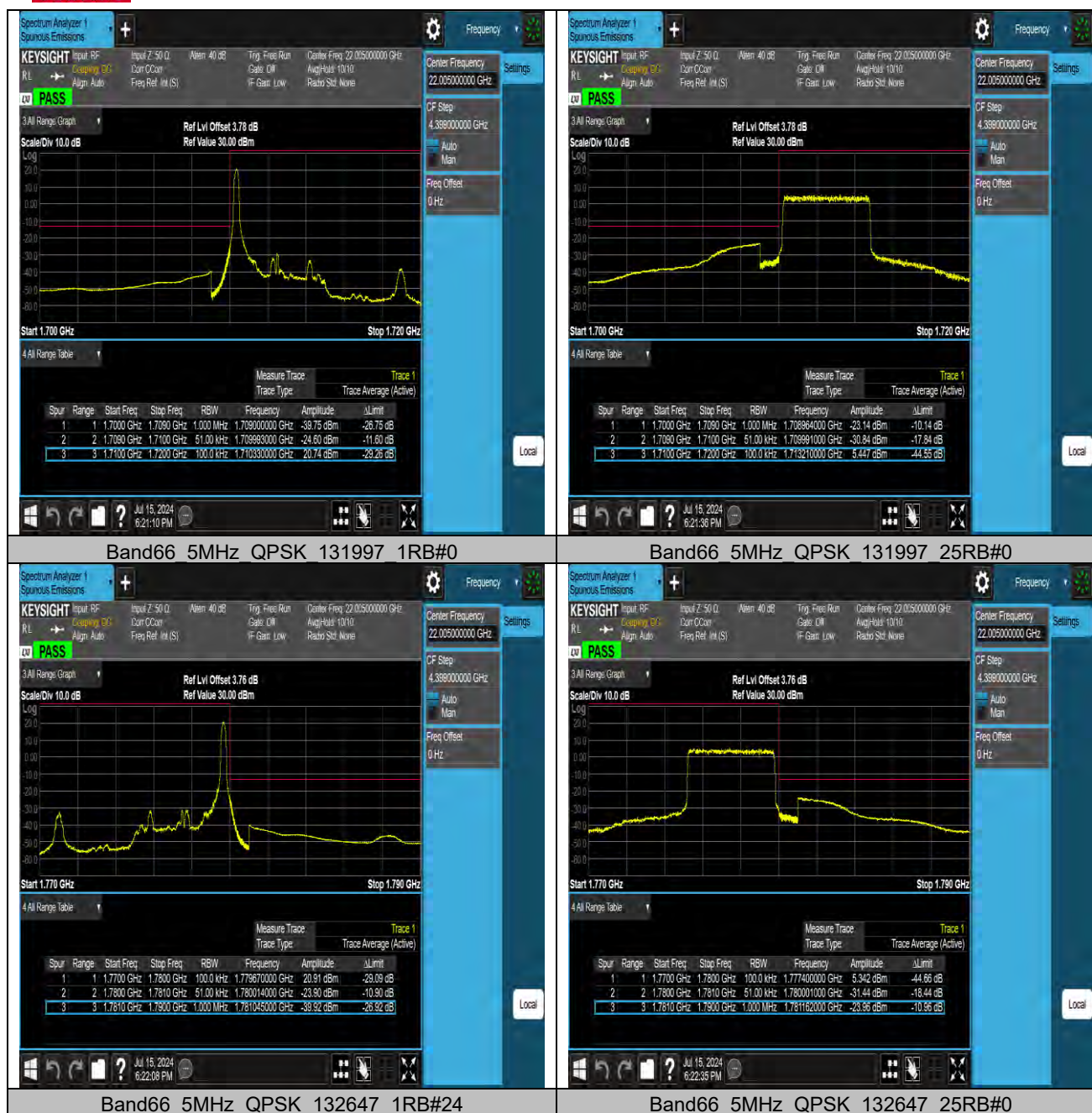
Test Report No.: W7L-240618W001RF08





Test Report No.: W7L-240618W001RF08













BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08

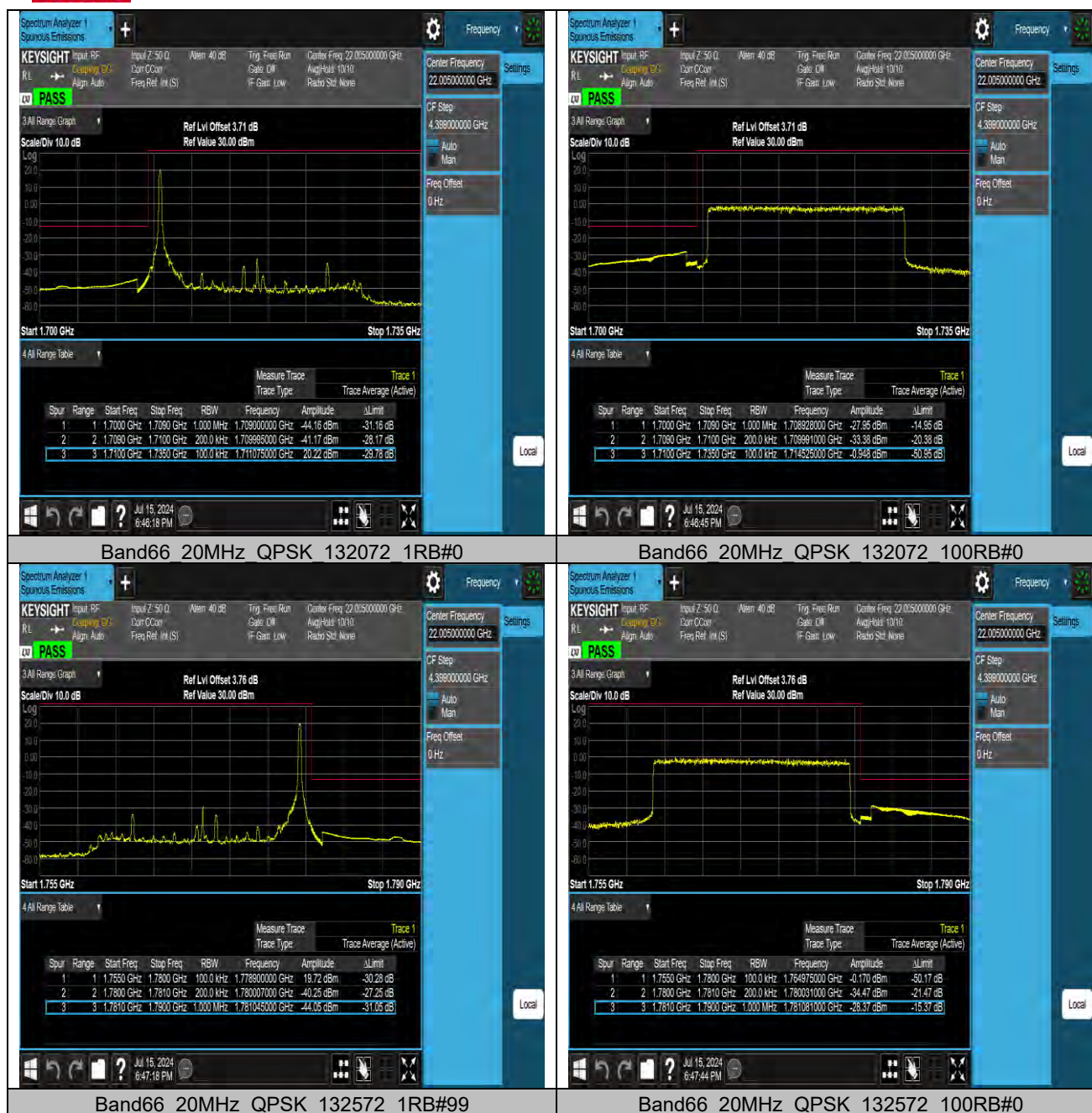


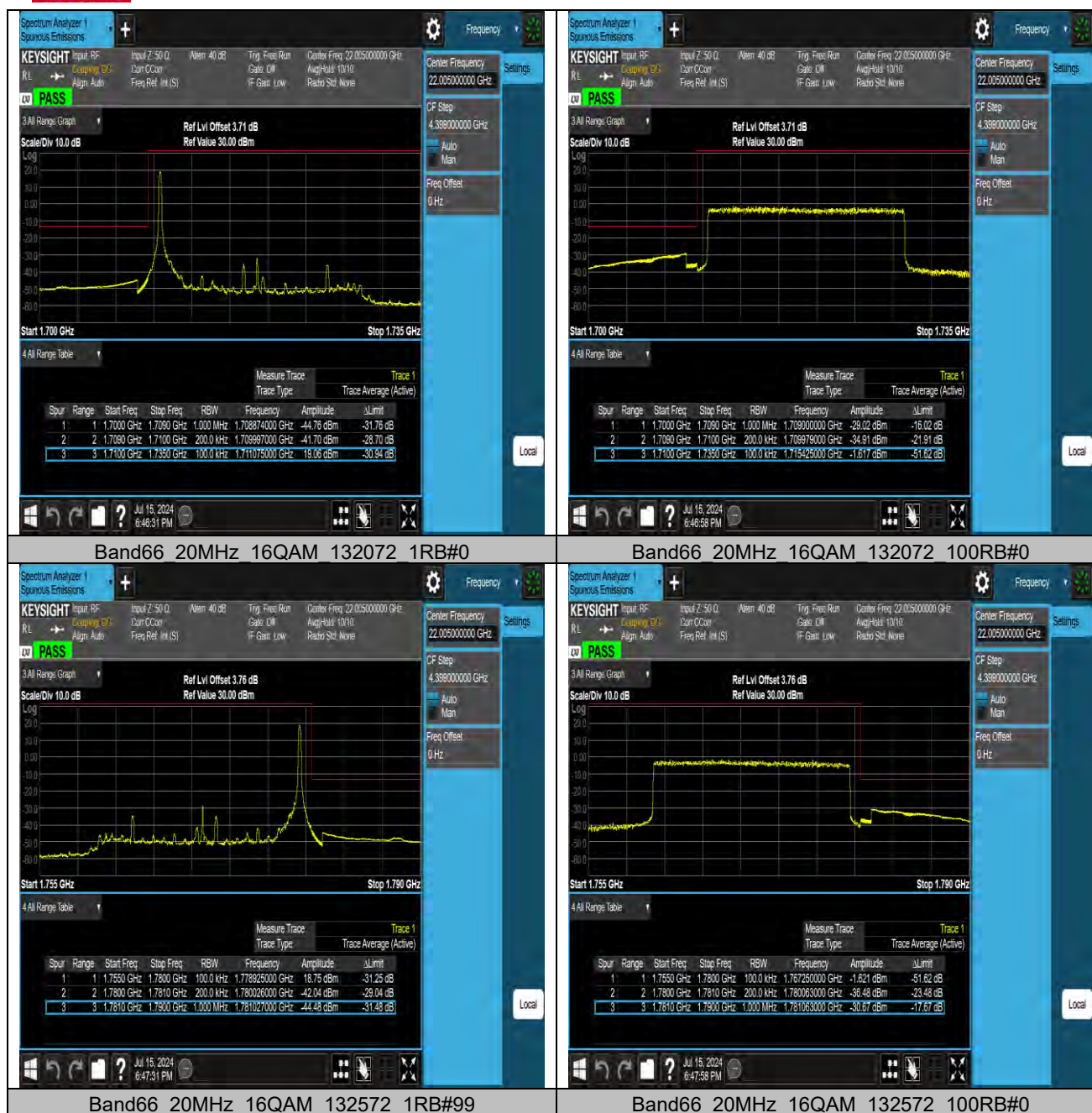


BUREAU
VERITAS

Test Report No.: W7L-240618W001RF08







CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	30~1000	-58.12	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	1000~10000	-37.96	PASS
Band66	1.4MHz	QPSK	131979	1RB#0	10000~20000	-35.79	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	30~1000	-58.13	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	1000~10000	-38.24	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	10000~20000	-35.73	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	30~1000	-58.15	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	1000~10000	-38.16	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	10000~20000	-35.69	PASS
Band66	3MHz	QPSK	131987	1RB#0	30~1000	-58.07	PASS
Band66	3MHz	QPSK	131987	1RB#0	1000~10000	-38.13	PASS
Band66	3MHz	QPSK	131987	1RB#0	10000~20000	-35.77	PASS
Band66	3MHz	QPSK	132322	1RB#0	30~1000	-58.01	PASS
Band66	3MHz	QPSK	132322	1RB#0	1000~10000	-38.23	PASS
Band66	3MHz	QPSK	132322	1RB#0	10000~20000	-35.70	PASS
Band66	3MHz	QPSK	132657	1RB#0	30~1000	-58.14	PASS
Band66	3MHz	QPSK	132657	1RB#0	1000~10000	-38.21	PASS
Band66	3MHz	QPSK	132657	1RB#0	10000~20000	-35.74	PASS
Band66	5MHz	QPSK	131997	1RB#0	30~1000	-58.13	PASS
Band66	5MHz	QPSK	131997	1RB#0	1000~10000	-38.21	PASS
Band66	5MHz	QPSK	131997	1RB#0	10000~20000	-35.82	PASS
Band66	5MHz	QPSK	132322	1RB#0	30~1000	-58.06	PASS
Band66	5MHz	QPSK	132322	1RB#0	1000~10000	-38.29	PASS
Band66	5MHz	QPSK	132322	1RB#0	10000~20000	-35.75	PASS
Band66	5MHz	QPSK	132647	1RB#0	30~1000	-58.11	PASS
Band66	5MHz	QPSK	132647	1RB#0	1000~10000	-38.13	PASS
Band66	5MHz	QPSK	132647	1RB#0	10000~20000	-35.73	PASS
Band66	10MHz	QPSK	132022	1RB#0	30~1000	-58.10	PASS
Band66	10MHz	QPSK	132022	1RB#0	1000~10000	-38.20	PASS
Band66	10MHz	QPSK	132022	1RB#0	10000~20000	-35.72	PASS
Band66	10MHz	QPSK	132322	1RB#0	30~1000	-58.05	PASS
Band66	10MHz	QPSK	132322	1RB#0	1000~10000	-38.08	PASS
Band66	10MHz	QPSK	132322	1RB#0	10000~20000	-35.75	PASS
Band66	10MHz	QPSK	132622	1RB#0	30~1000	-58.09	PASS
Band66	10MHz	QPSK	132622	1RB#0	1000~10000	-38.11	PASS
Band66	10MHz	QPSK	132622	1RB#0	10000~20000	-35.82	PASS
Band66	15MHz	QPSK	132047	1RB#0	30~1000	-58.04	PASS
Band66	15MHz	QPSK	132047	1RB#0	1000~10000	-38.28	PASS
Band66	15MHz	QPSK	132047	1RB#0	10000~20000	-35.81	PASS
Band66	15MHz	QPSK	132322	1RB#0	30~1000	-58.10	PASS
Band66	15MHz	QPSK	132322	1RB#0	1000~10000	-38.22	PASS
Band66	15MHz	QPSK	132322	1RB#0	10000~20000	-35.76	PASS
Band66	15MHz	QPSK	132597	1RB#0	30~1000	-58.05	PASS
Band66	15MHz	QPSK	132597	1RB#0	1000~10000	-38.29	PASS

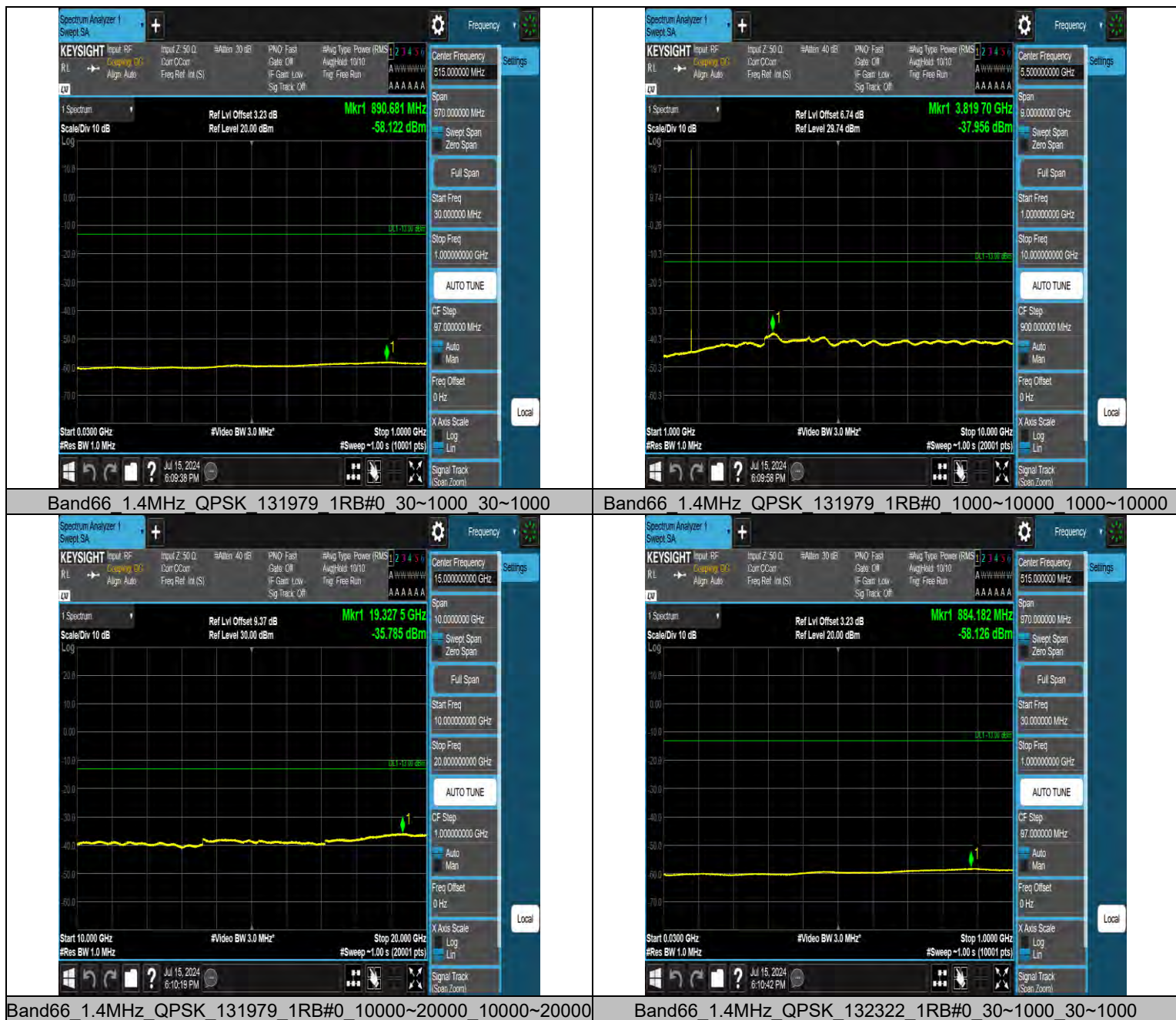


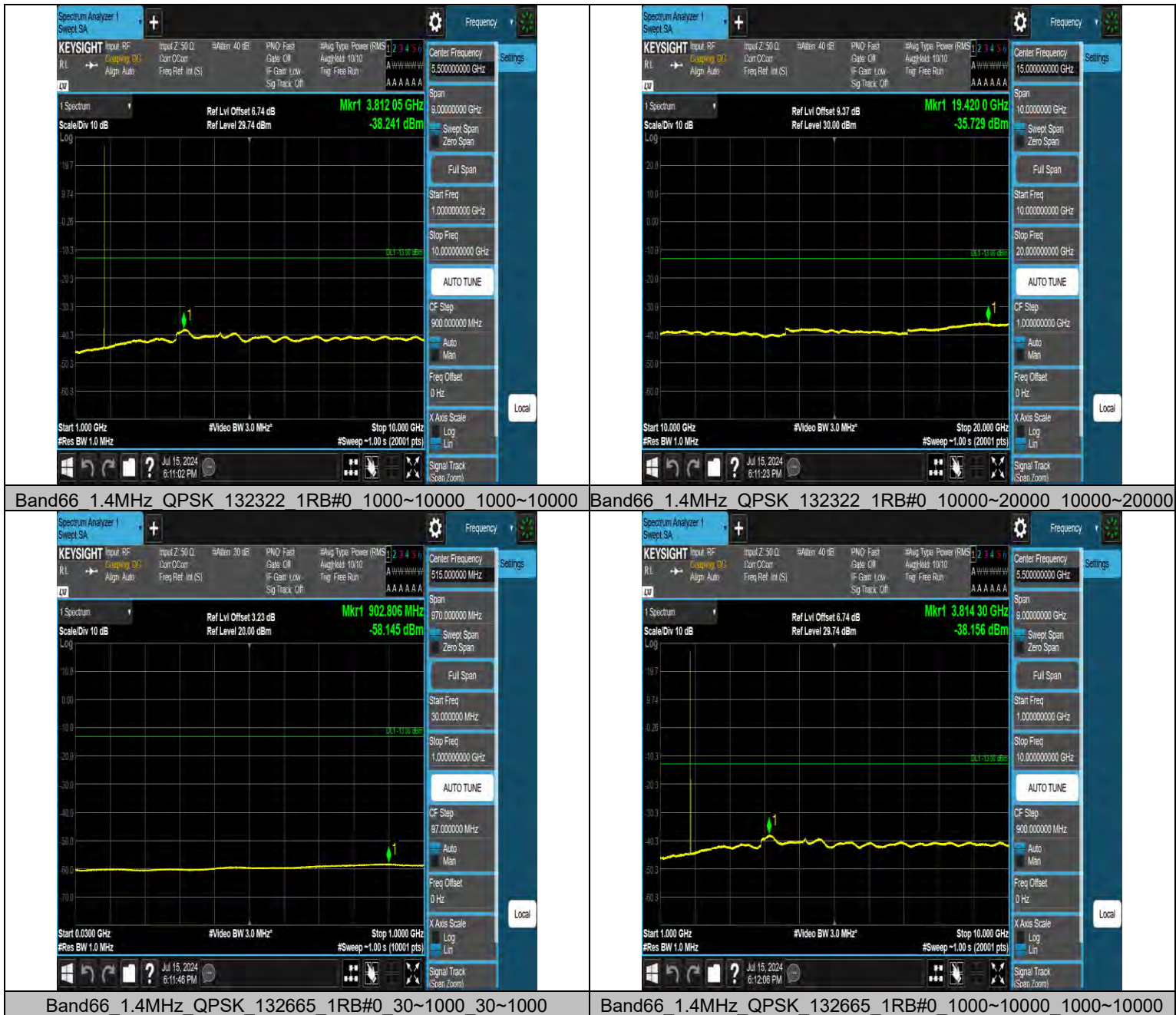
BUREAU
VERITAS

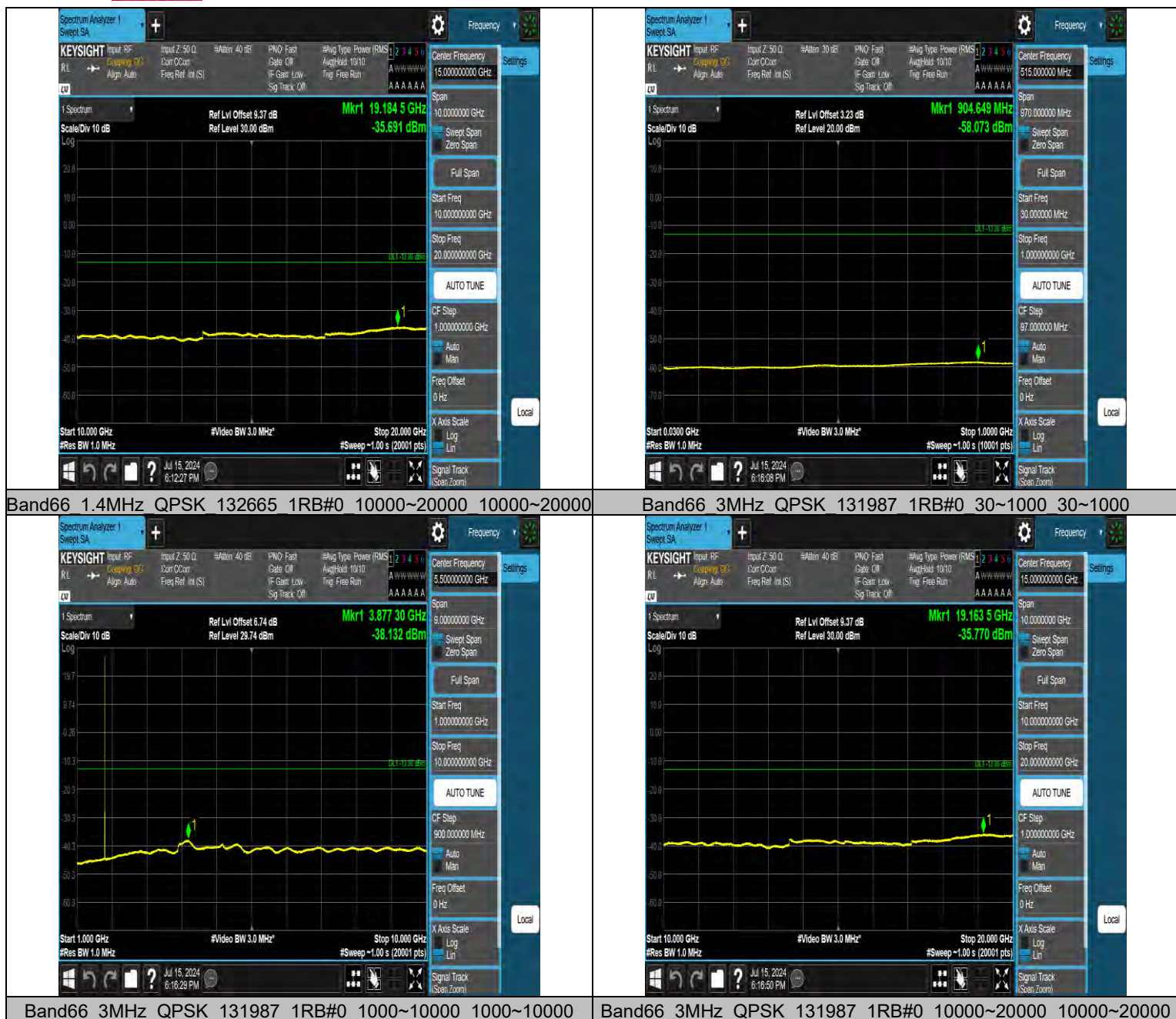
Test Report No.: W7L-240618W001RF08

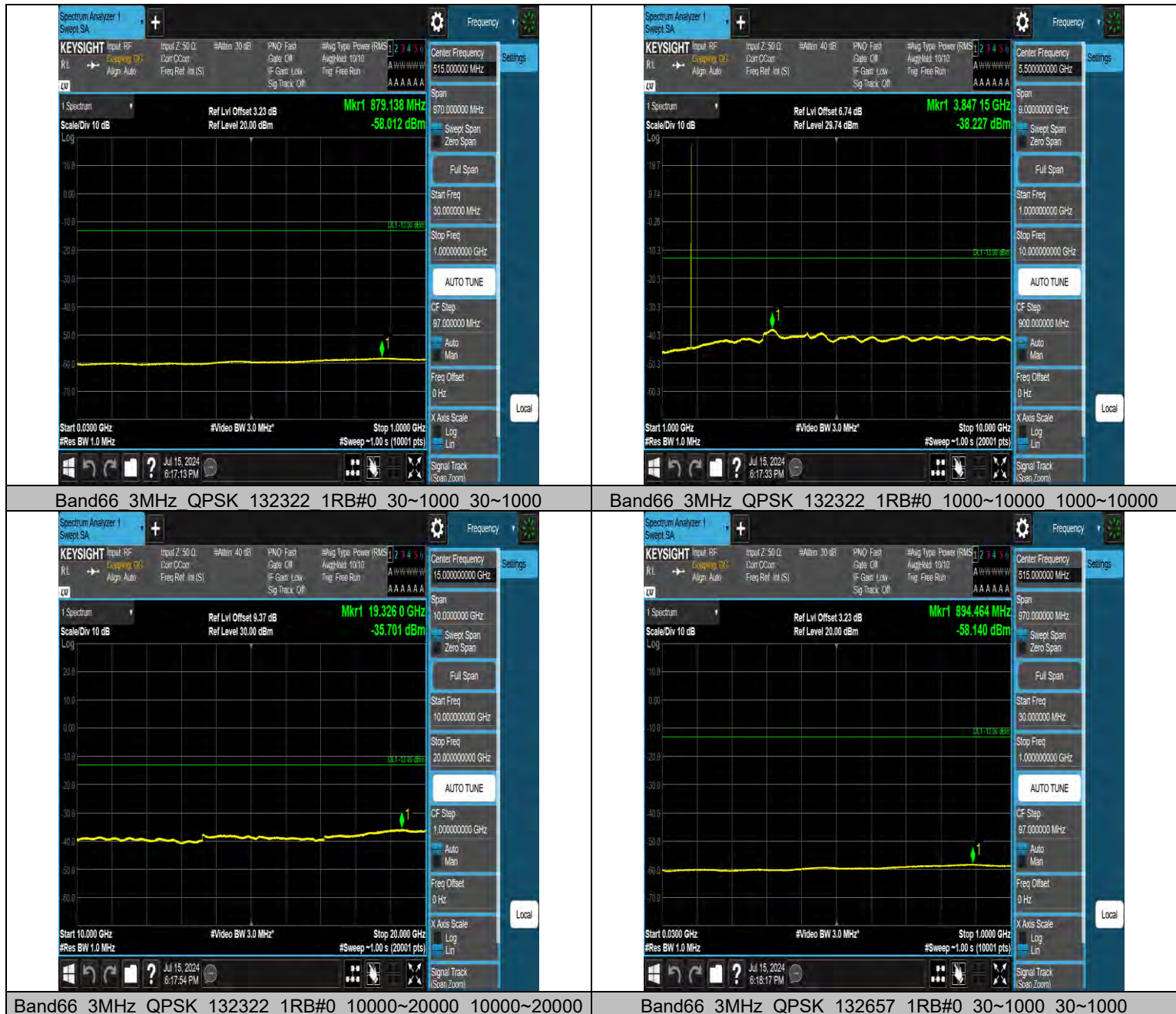
Band66	15MHz	QPSK	132597	1RB#0	10000~20000	-35.81	PASS
Band66	20MHz	QPSK	132072	1RB#0	30~1000	-58.08	PASS
Band66	20MHz	QPSK	132072	1RB#0	1000~10000	-38.19	PASS
Band66	20MHz	QPSK	132072	1RB#0	10000~20000	-35.72	PASS
Band66	20MHz	QPSK	132322	1RB#0	30~1000	-58.13	PASS
Band66	20MHz	QPSK	132322	1RB#0	1000~10000	-38.15	PASS
Band66	20MHz	QPSK	132322	1RB#0	10000~20000	-35.76	PASS
Band66	20MHz	QPSK	132572	1RB#0	30~1000	-58.10	PASS
Band66	20MHz	QPSK	132572	1RB#0	1000~10000	-38.30	PASS
Band66	20MHz	QPSK	132572	1RB#0	10000~20000	-35.78	PASS

Test Graphs



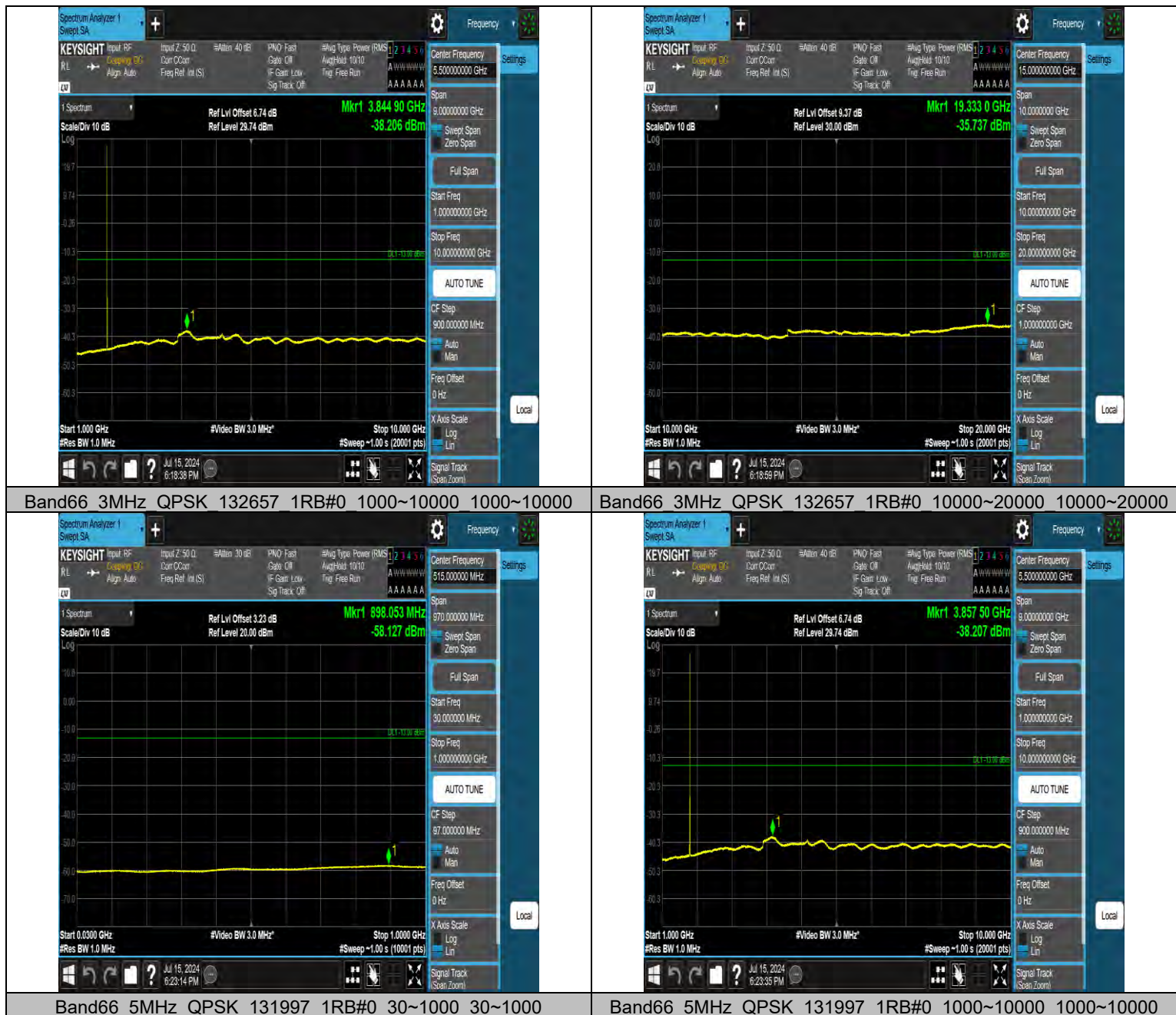


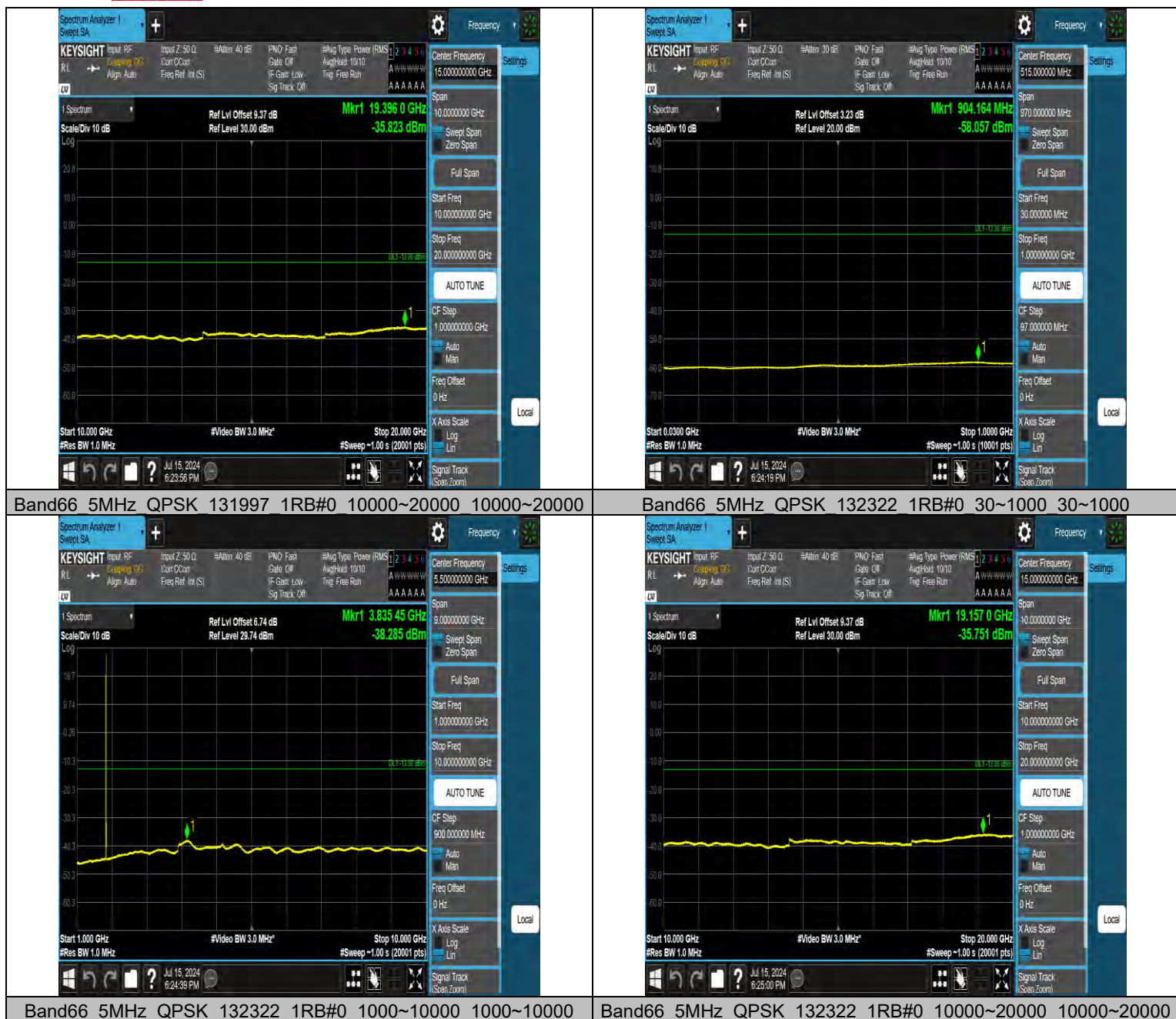


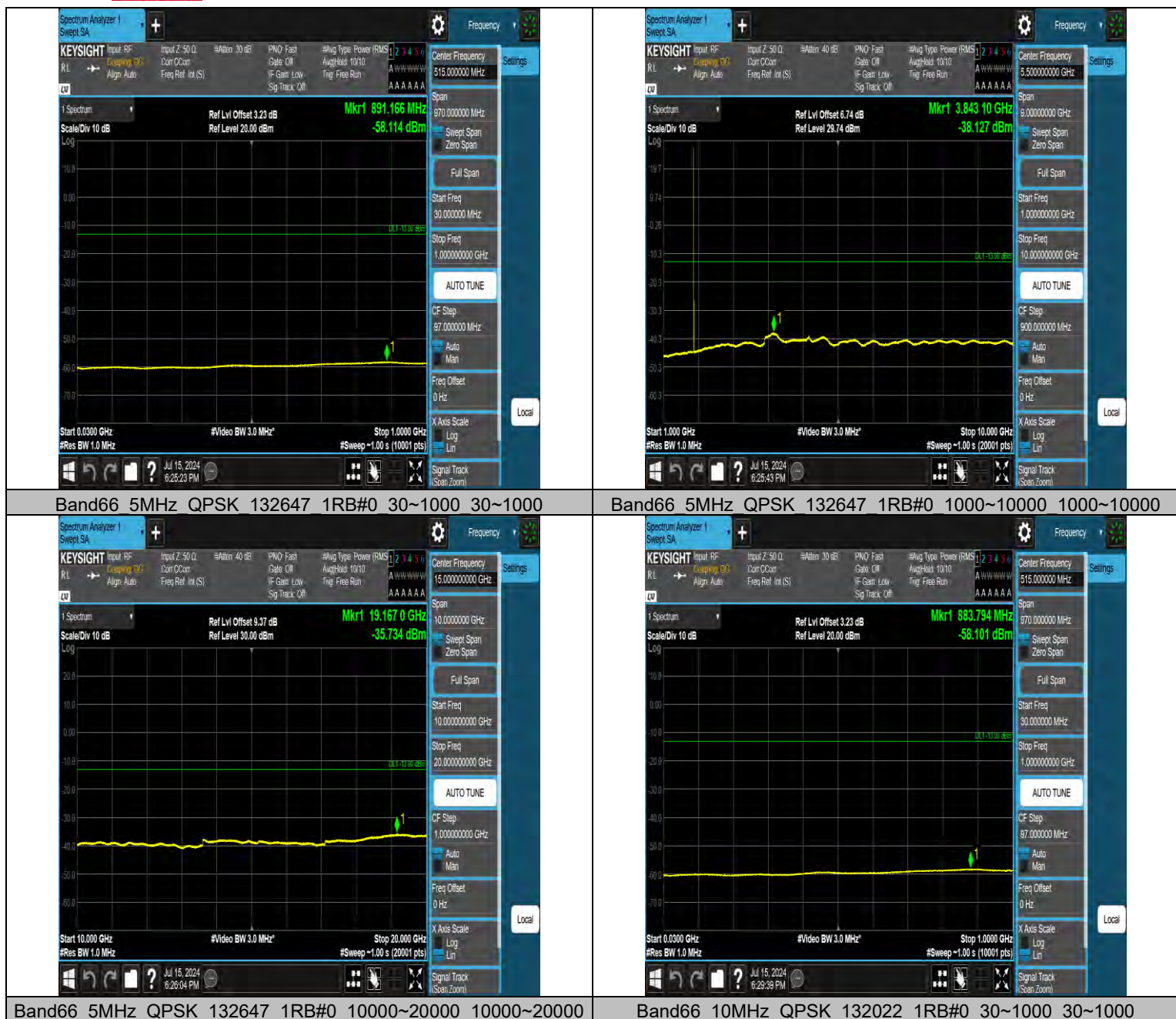


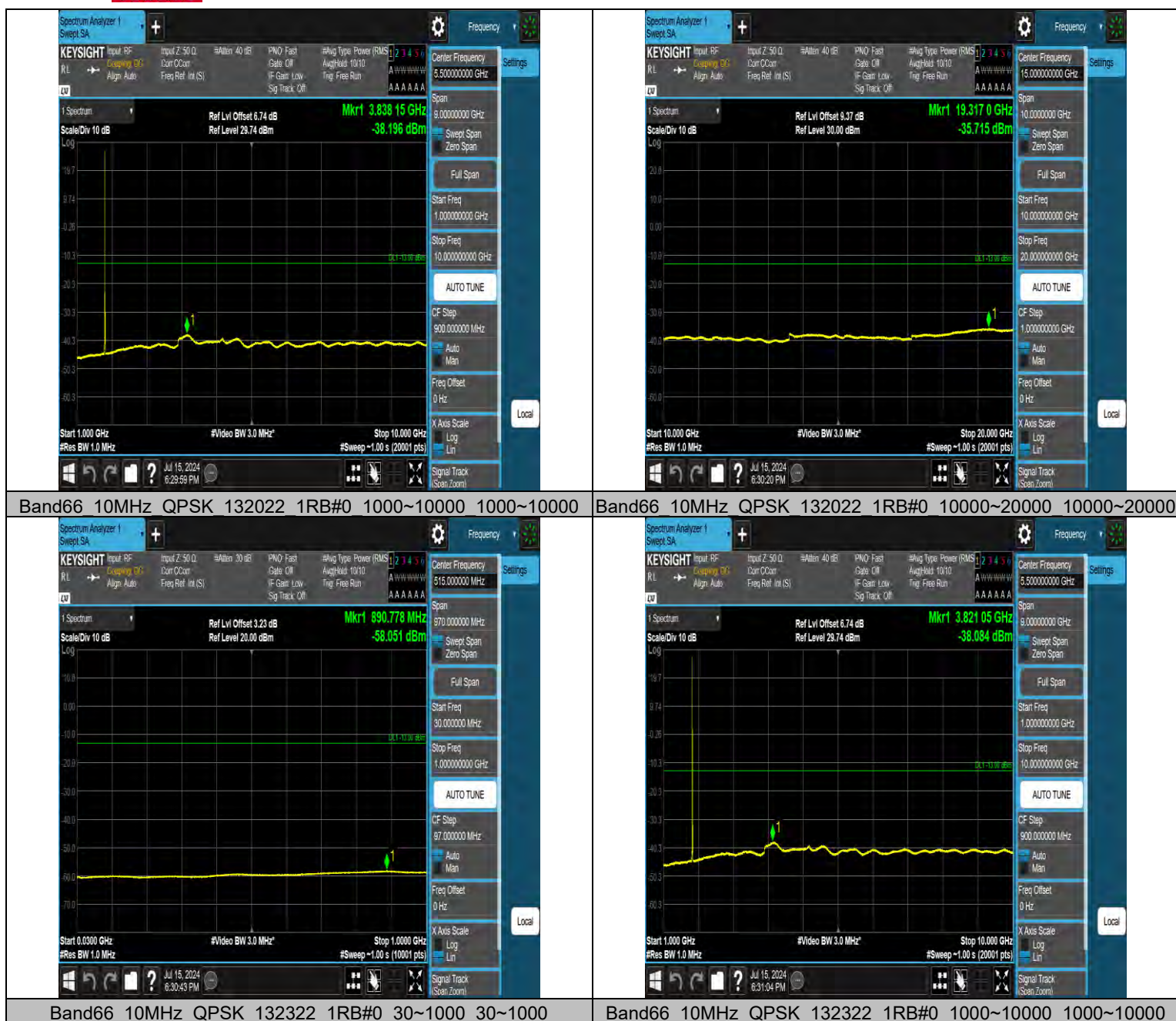


Test Report No.: W7L-240618W001RF08











Test Report No.: W7L-240618W001RF08

