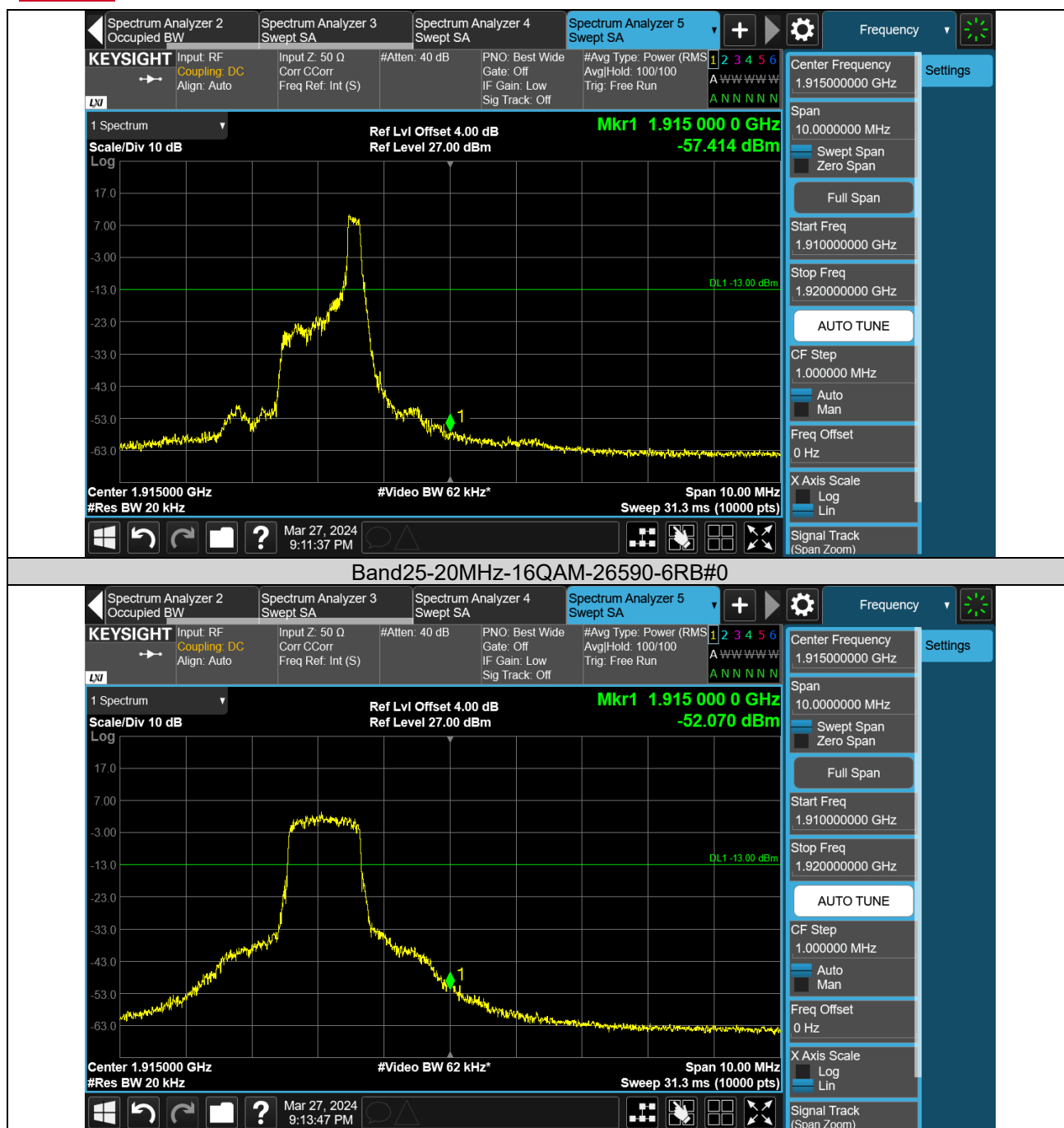




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VERITAS

Test Report No.: W7L-240204W001RF02



CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	QPSK	26055	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	QPSK	26675	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	16QAM	26055	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	3MHz	16QAM	26675	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	QPSK	26065	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	QPSK	26665	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	16QAM	26065	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	5MHz	16QAM	26665	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	QPSK	26090	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	QPSK	26640	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	16QAM	26090	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	10MHz	16QAM	26640	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	QPSK	26115	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	QPSK	26615	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	16QAM	26115	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	15MHz	16QAM	26615	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	QPSK	26140	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	QPSK	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	QPSK	26590	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	16QAM	26140	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	16QAM	26365	1RB#0	Range:30~20000MHz	See Graph	PASS
Band25	20MHz	16QAM	26590	1RB#0	Range:30~20000MHz	See Graph	PASS

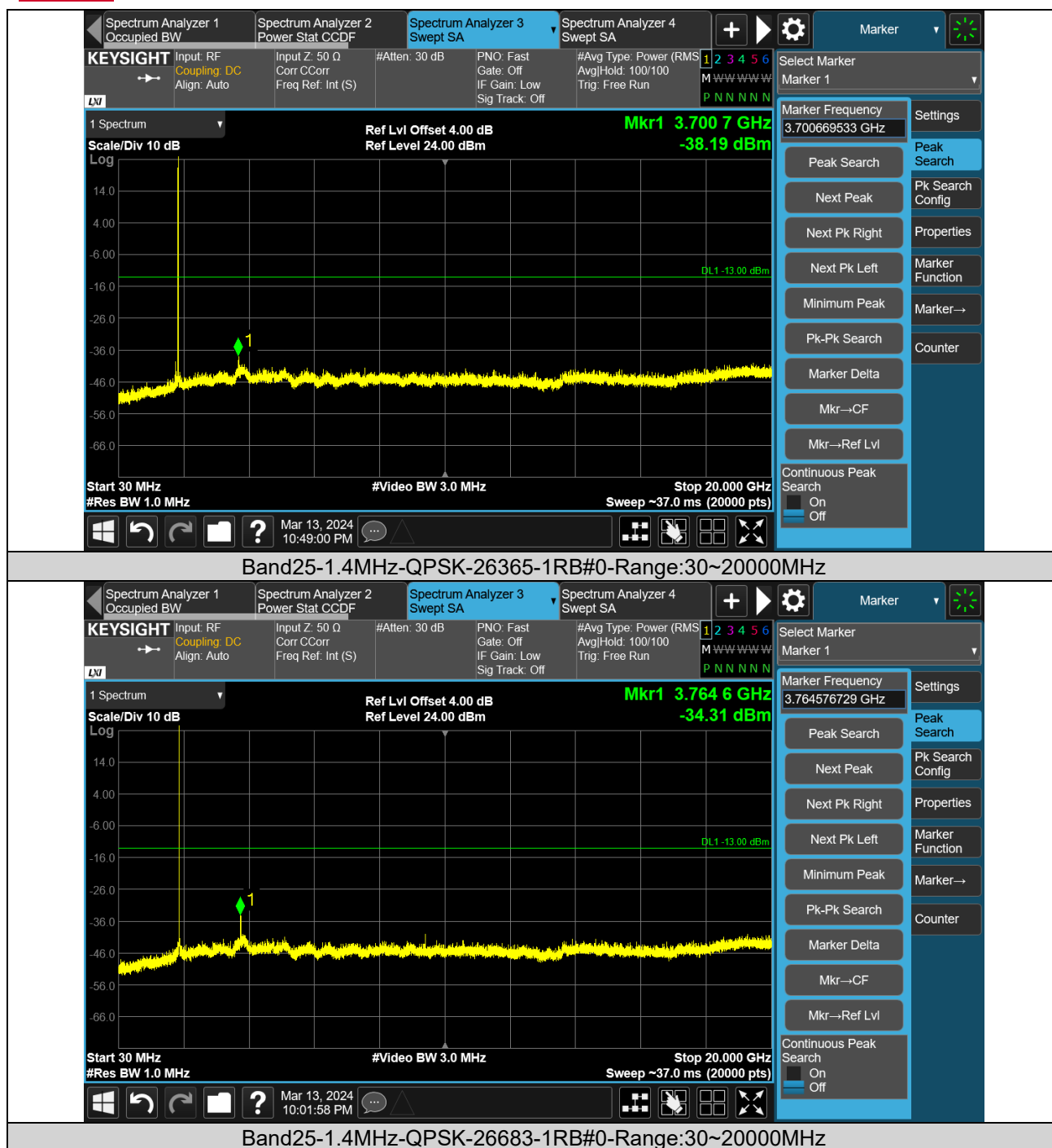
Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0-Range:30~20000MHz
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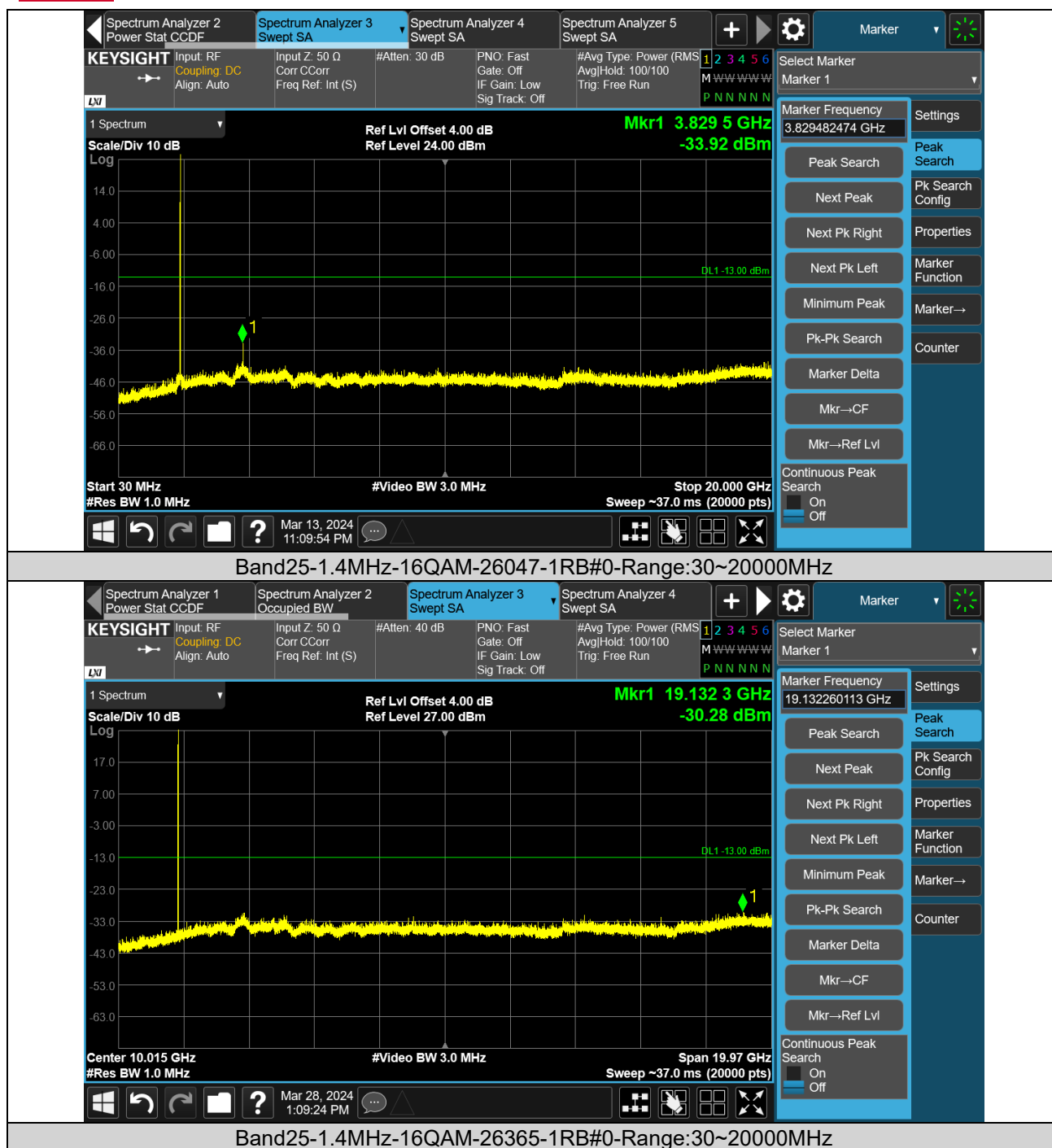
Test Report No.: W7L-240204W001RF02





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VERITAS

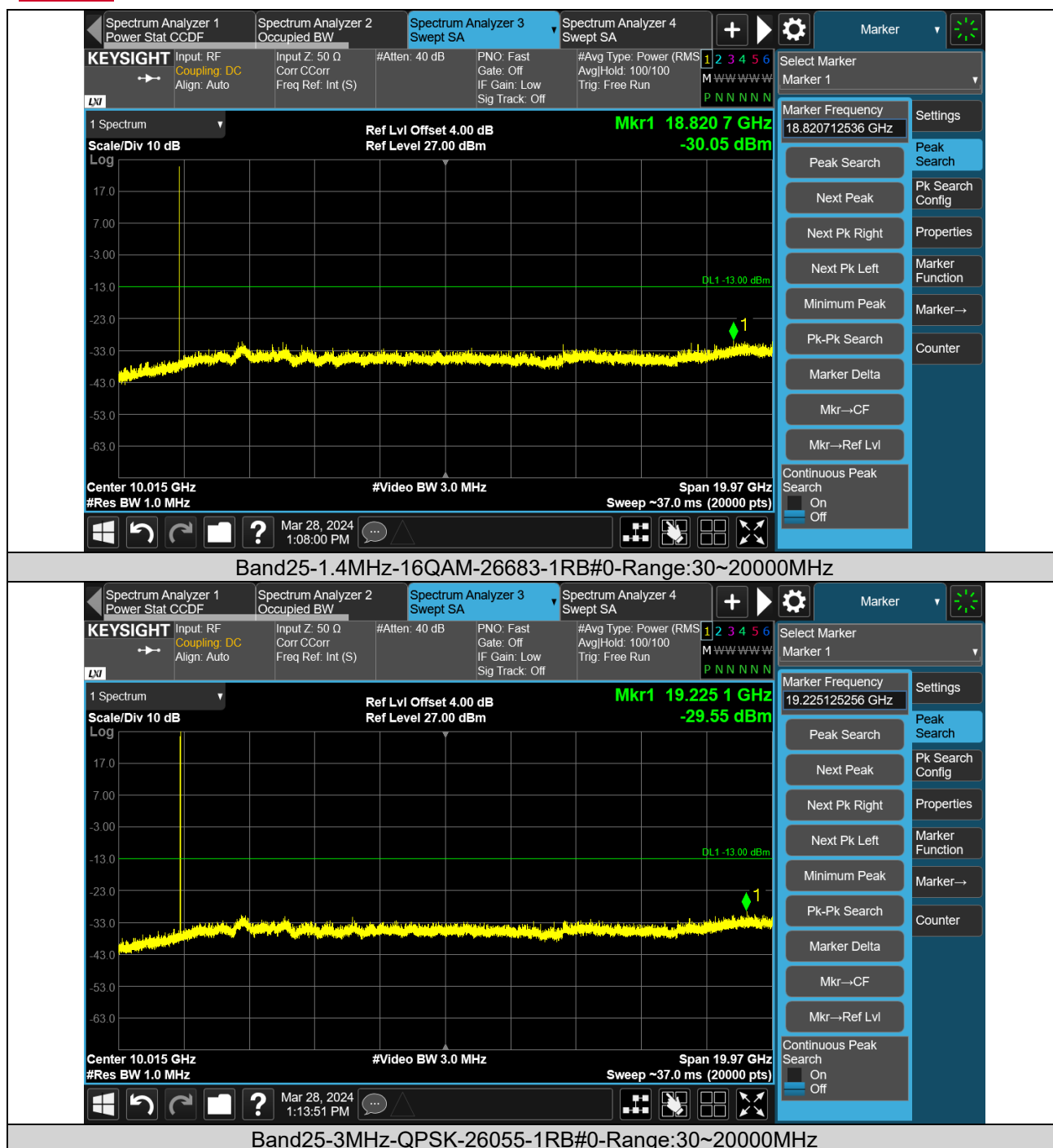
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VERITAS

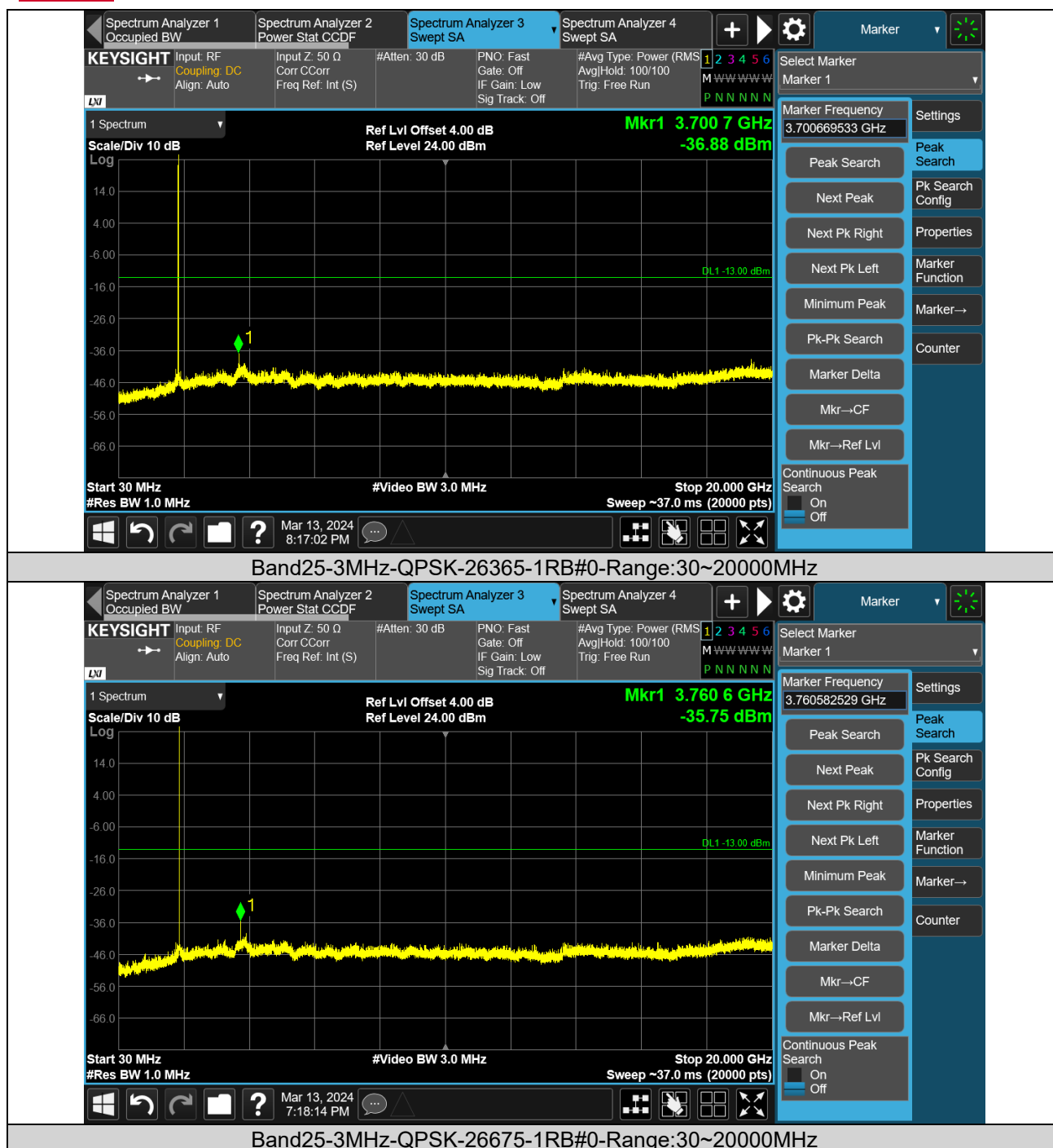
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VERITAS

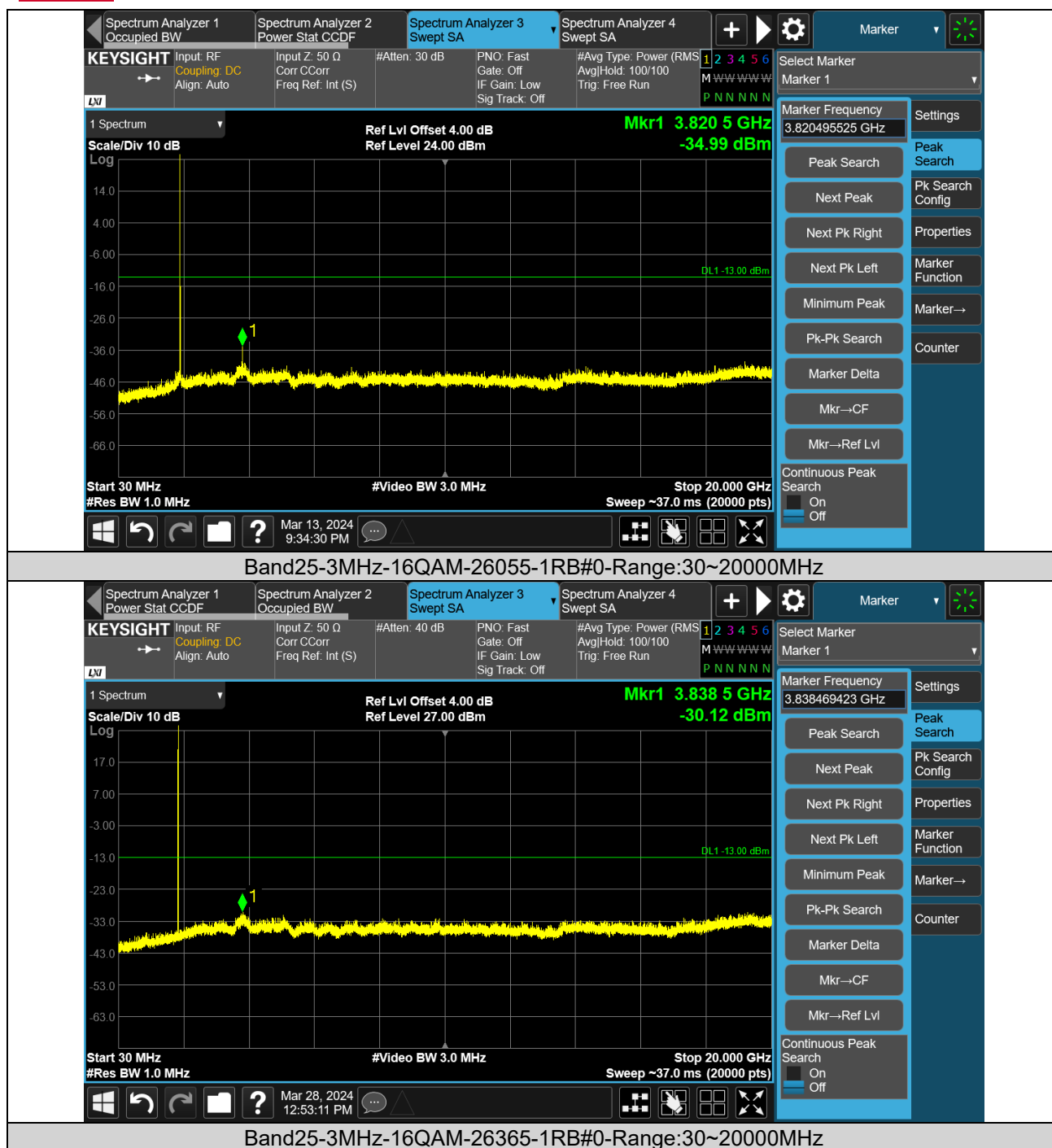
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VERITAS

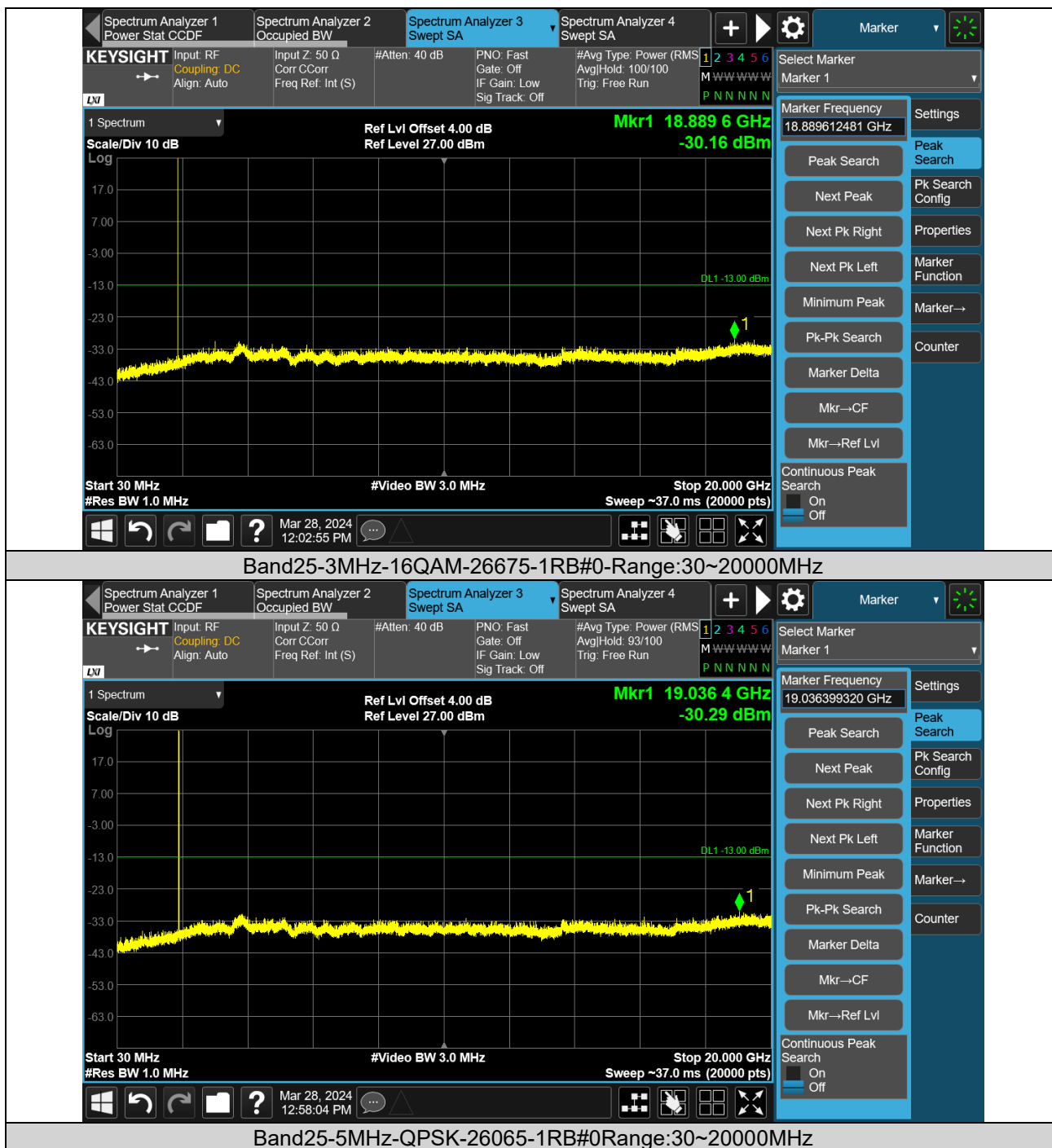
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VERITAS

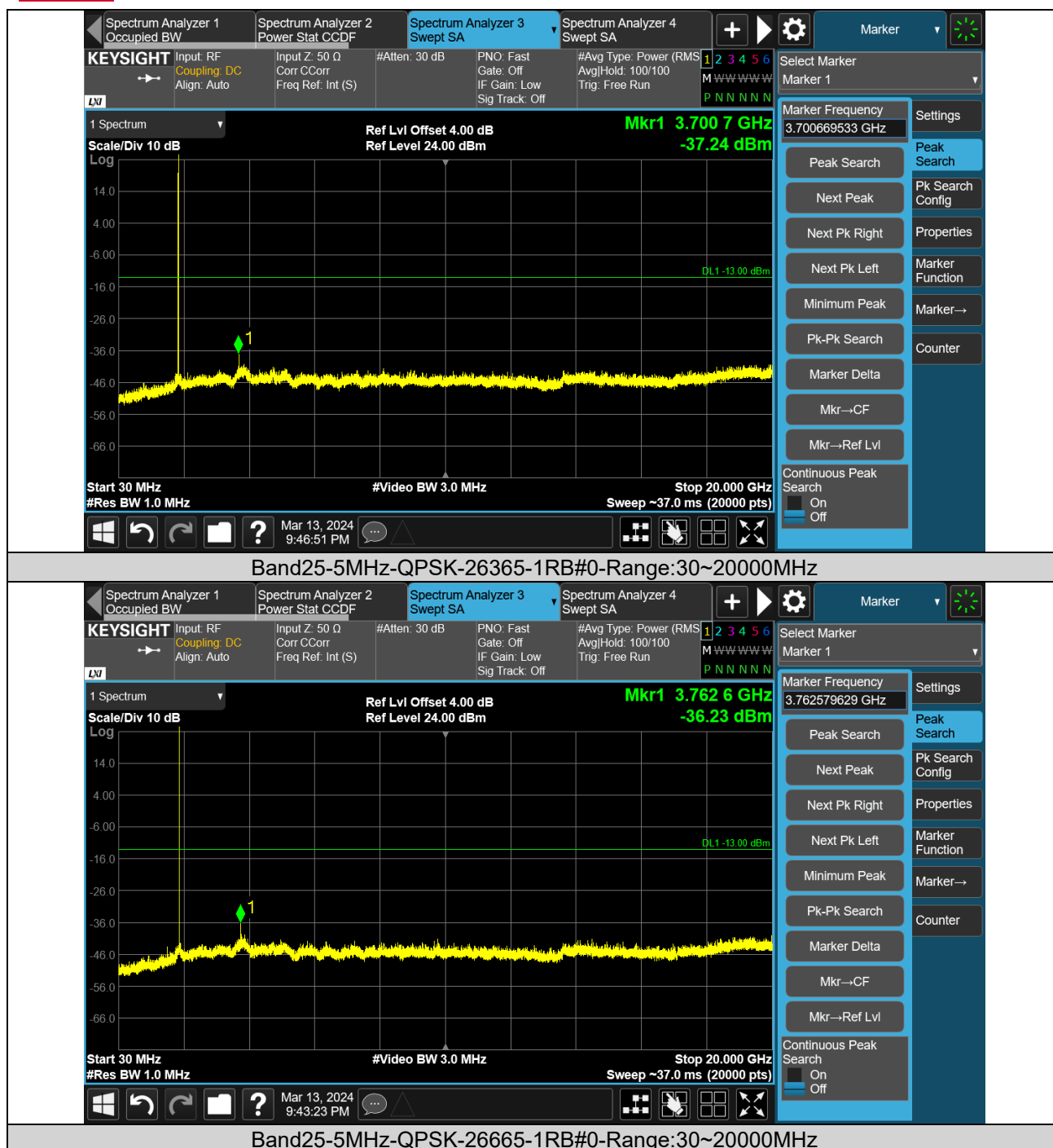
Test Report No.: W7L-240204W001RF02





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VERITAS

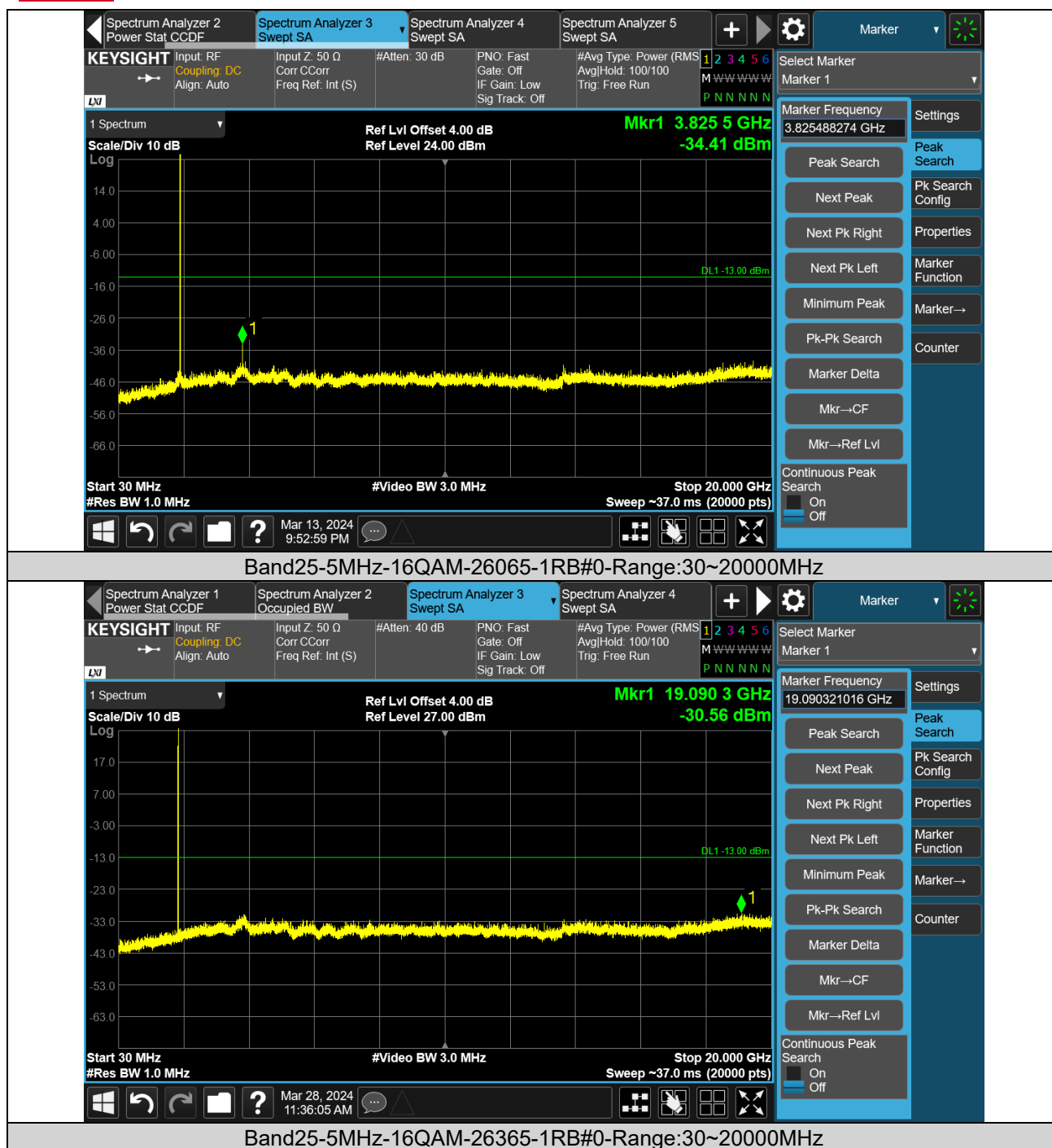
Test Report No.: W7L-240204W001RF02





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VERITAS

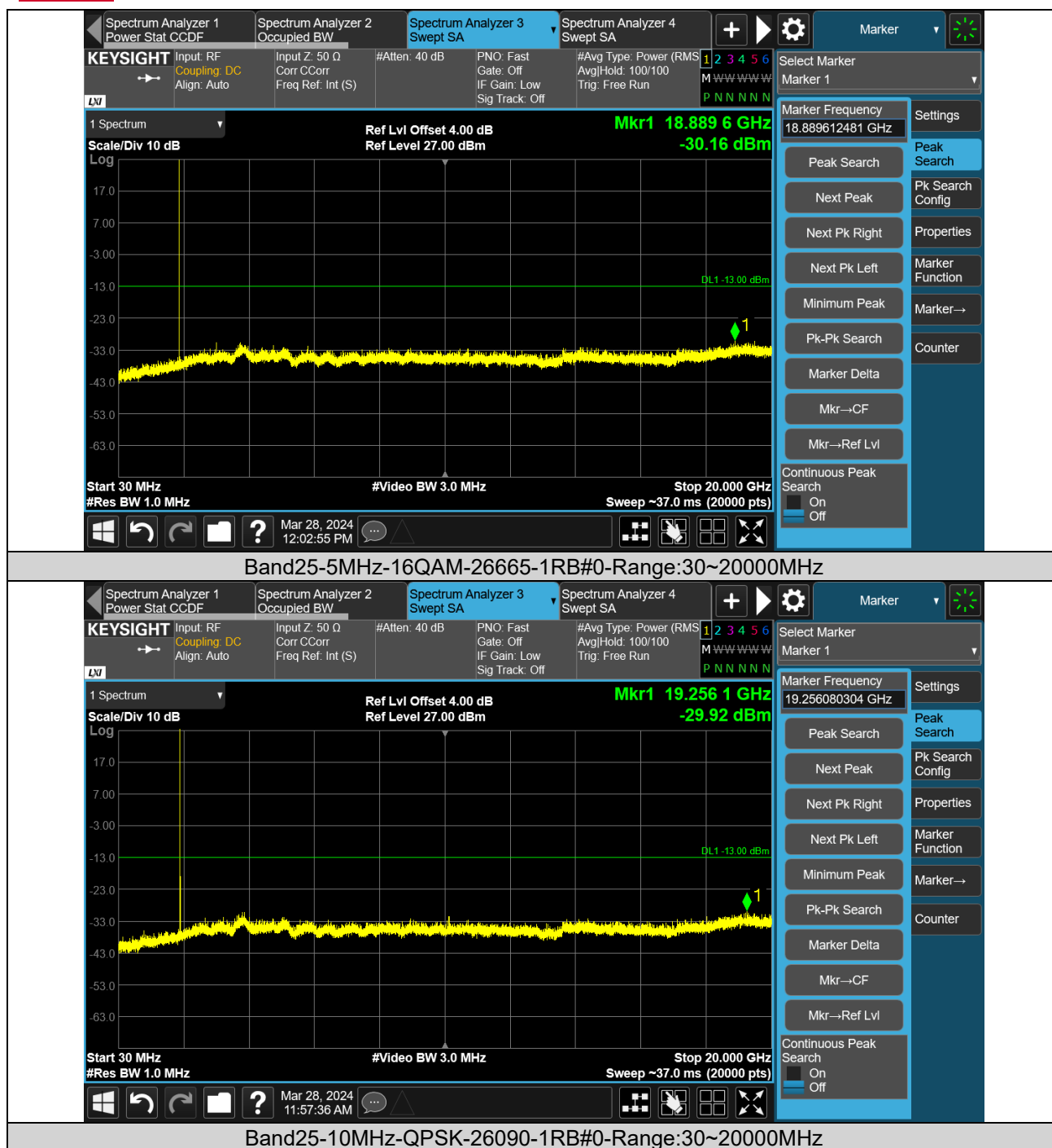
Test Report No.: W7L-240204W001RF02





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VERITAS

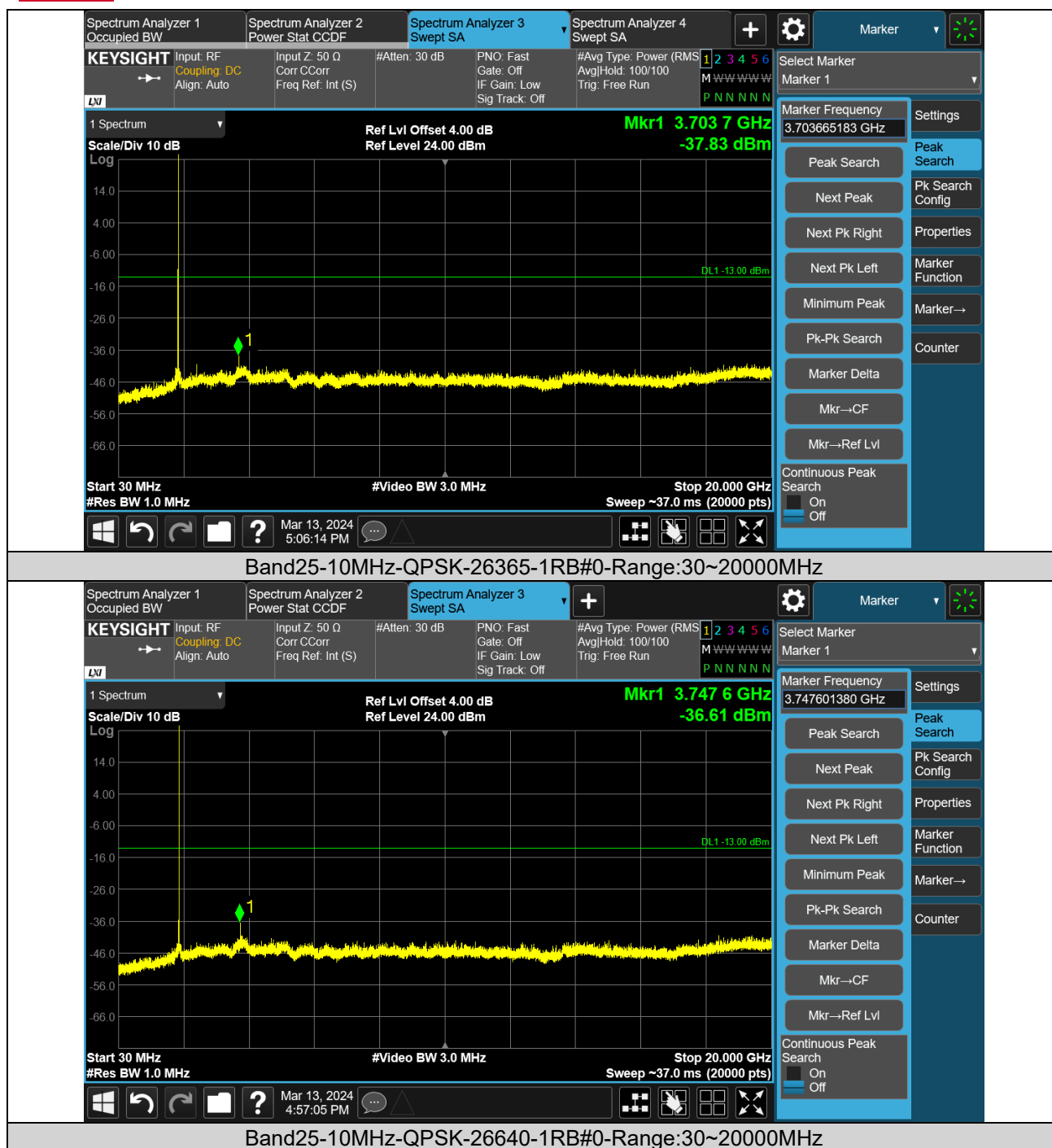
Test Report No.: W7L-240204W001RF02





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VERITAS

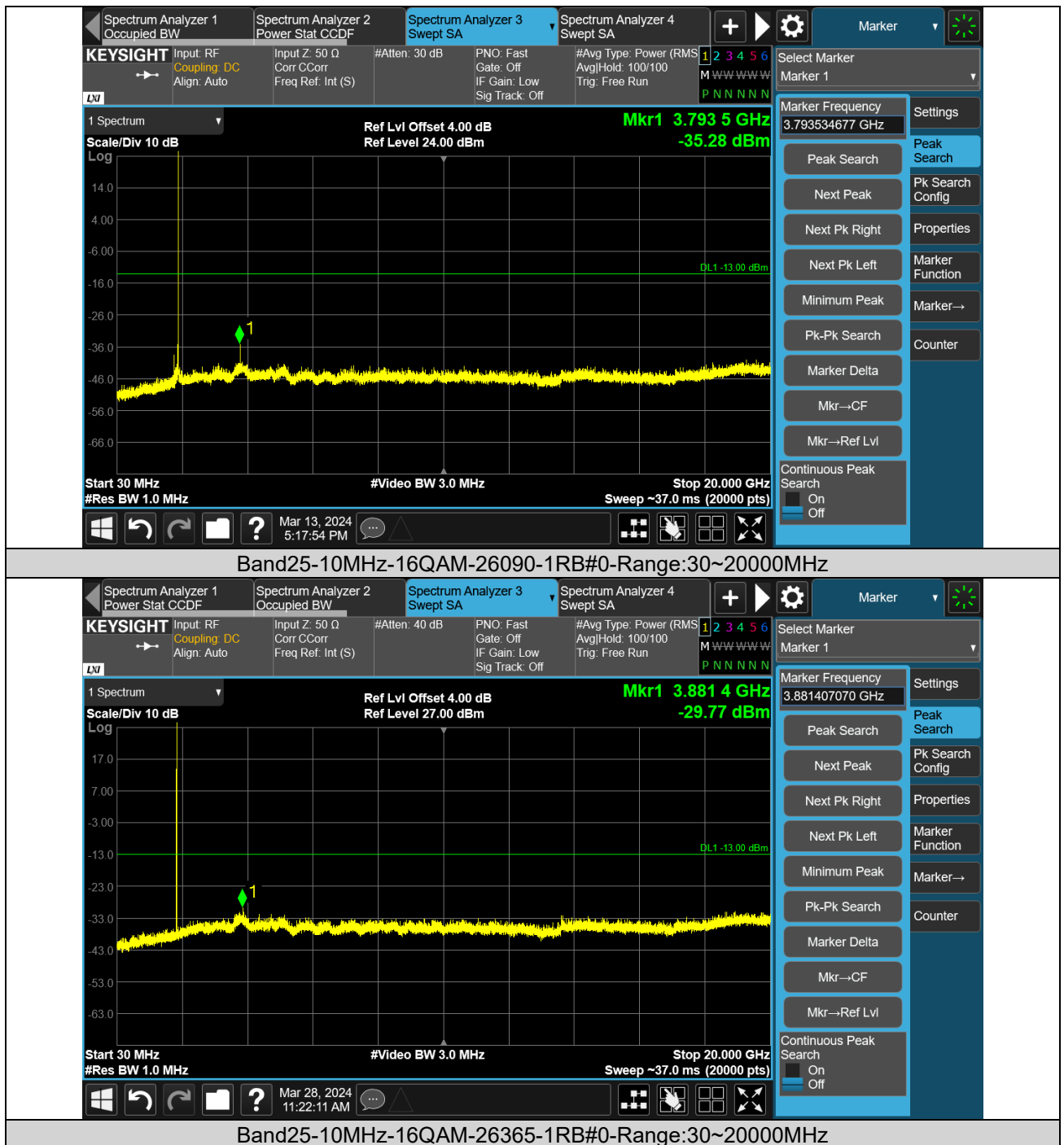
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VERITAS

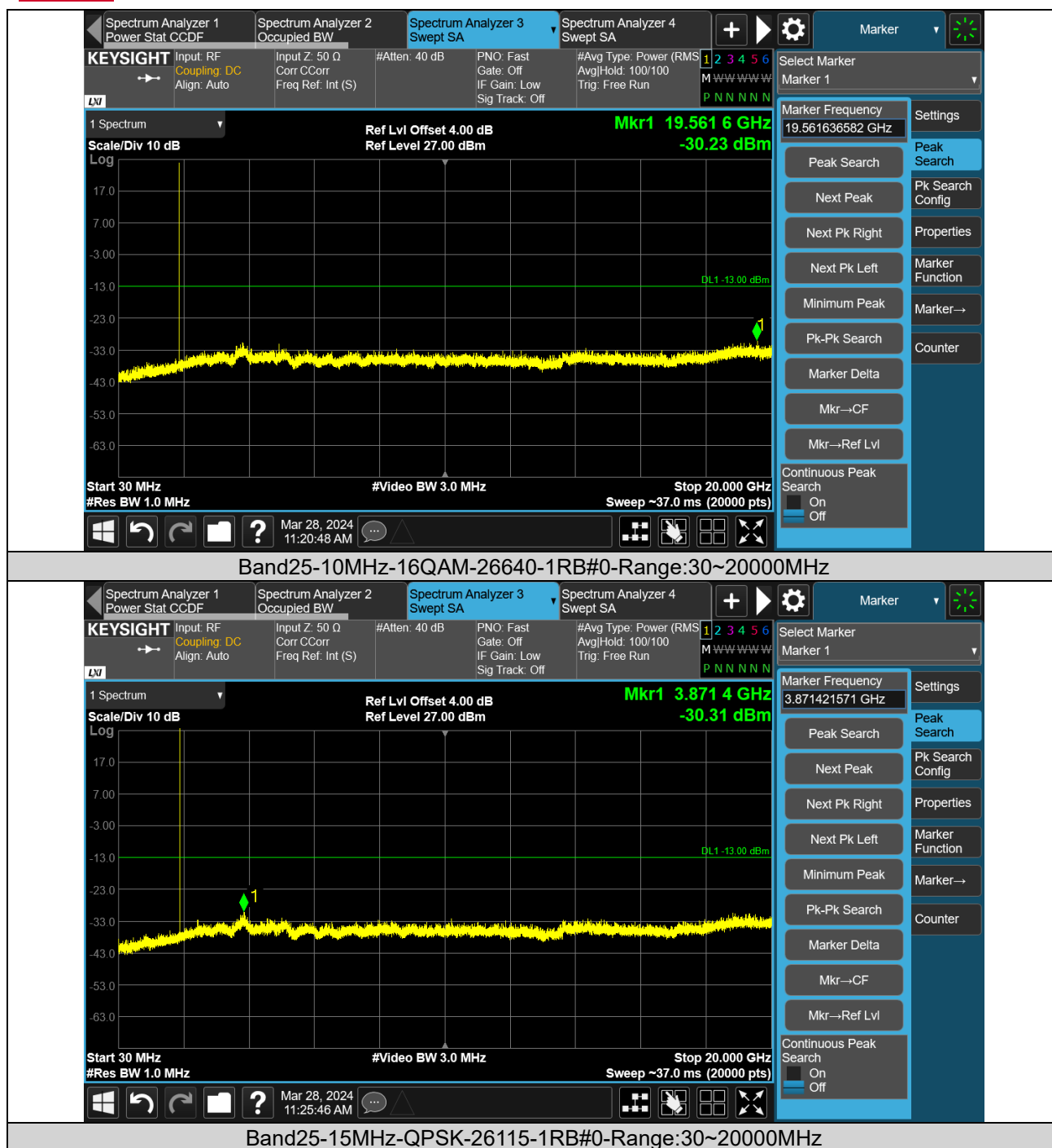
Test Report No.: W7L-240204W001RF02





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VERITAS

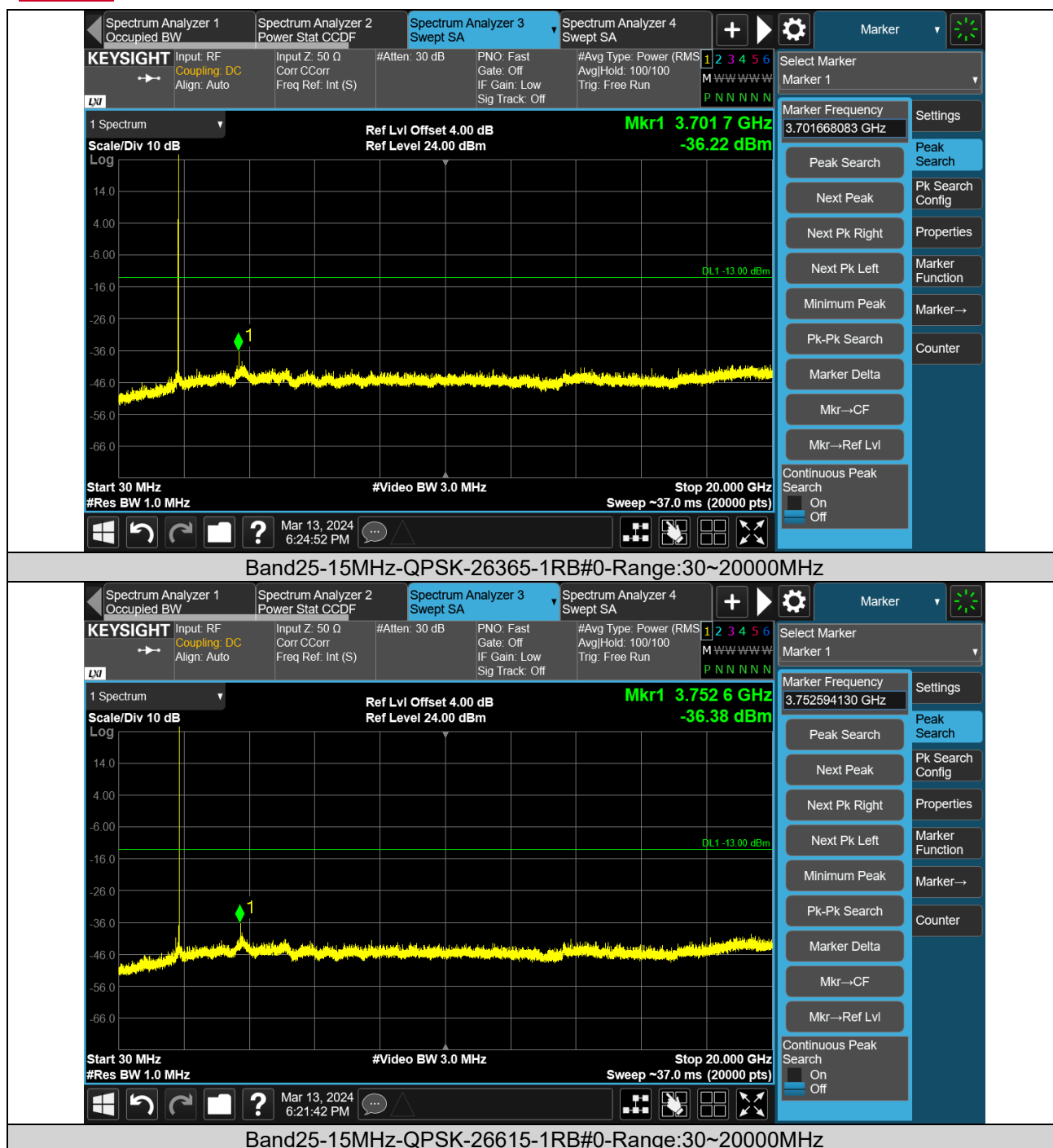
Test Report No.: W7L-240204W001RF02





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VERITAS

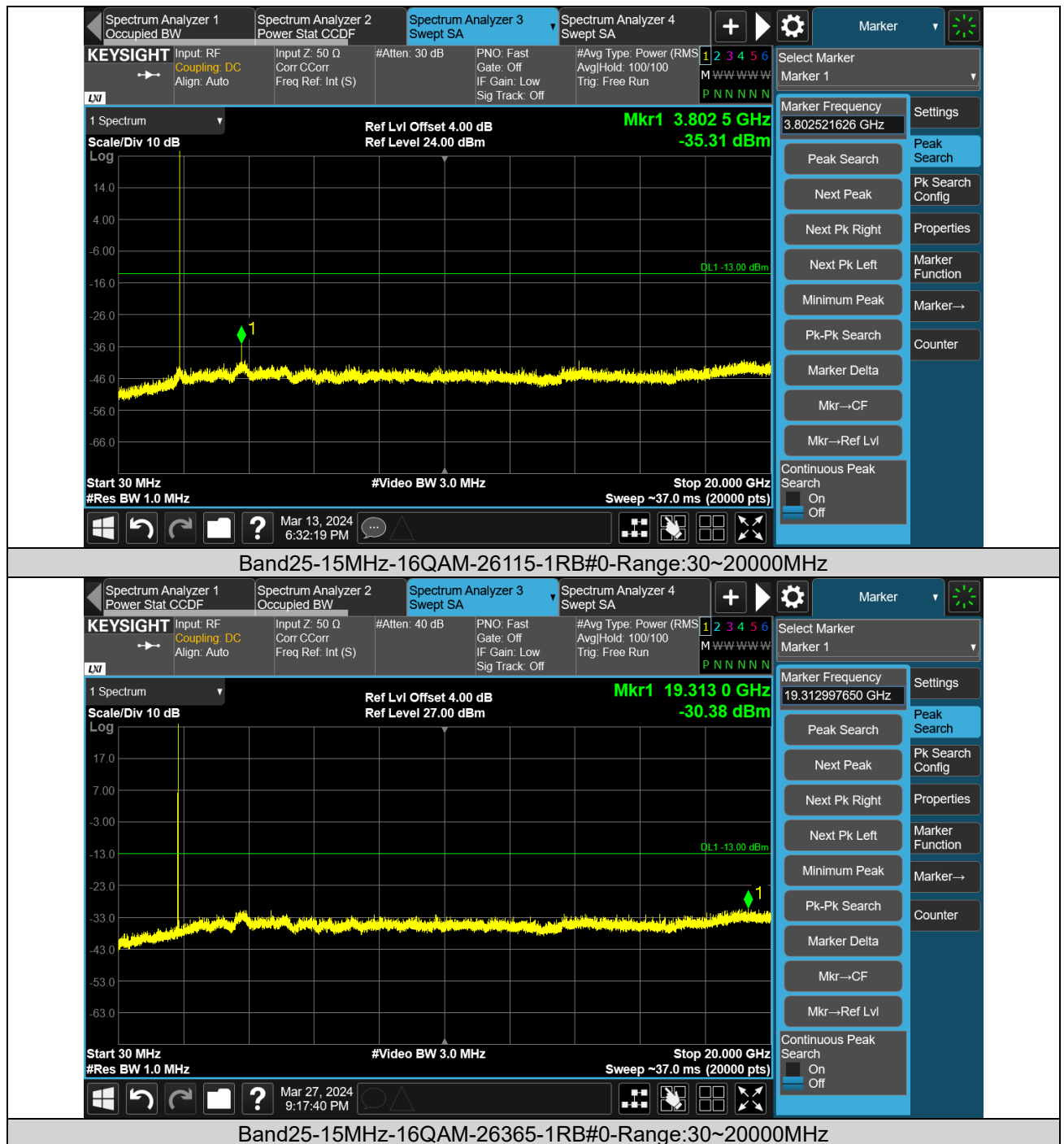
Test Report No.: W7L-240204W001RF02





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VERITAS

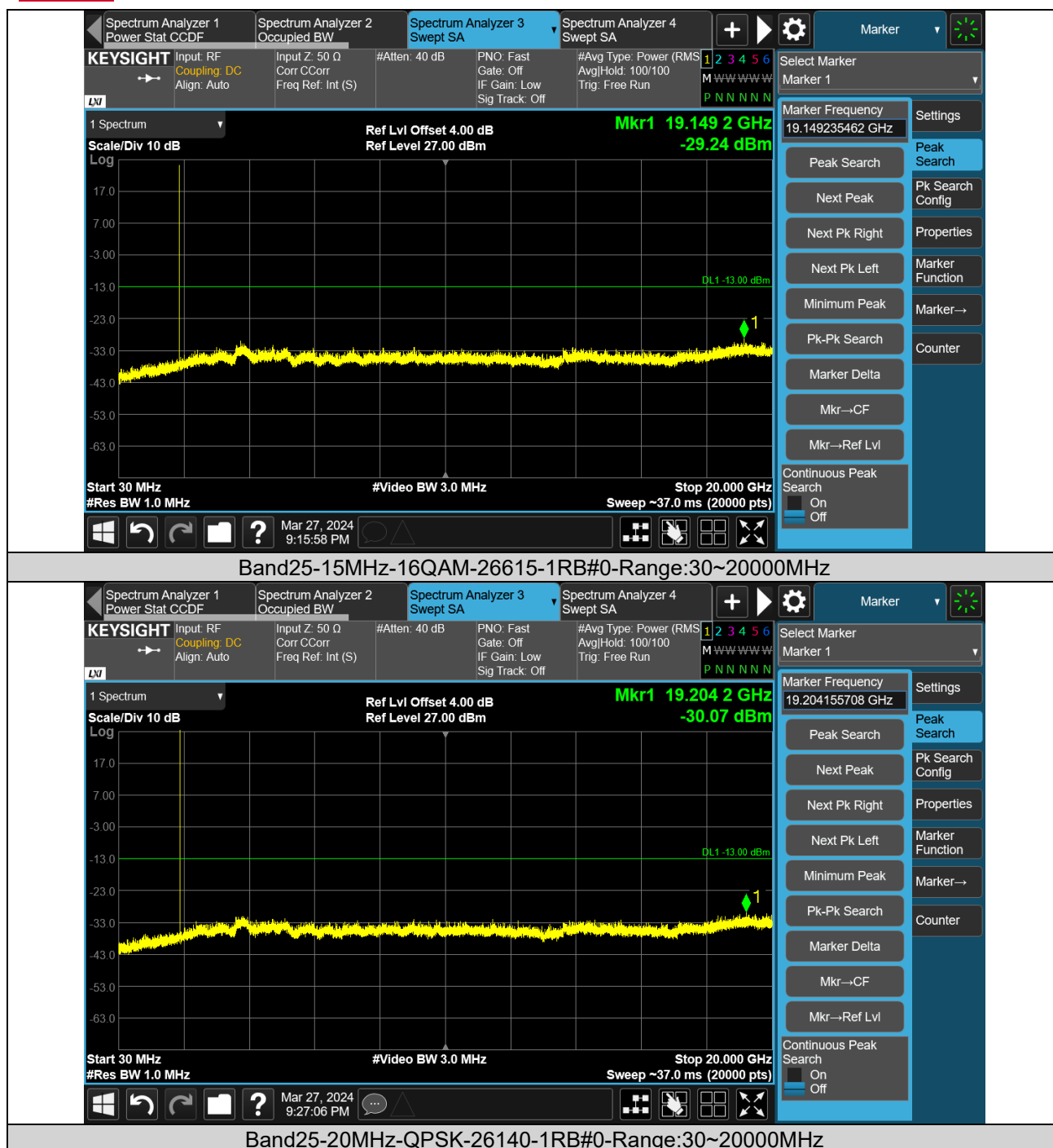
Test Report No.: W7L-240204W001RF02





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VERITAS

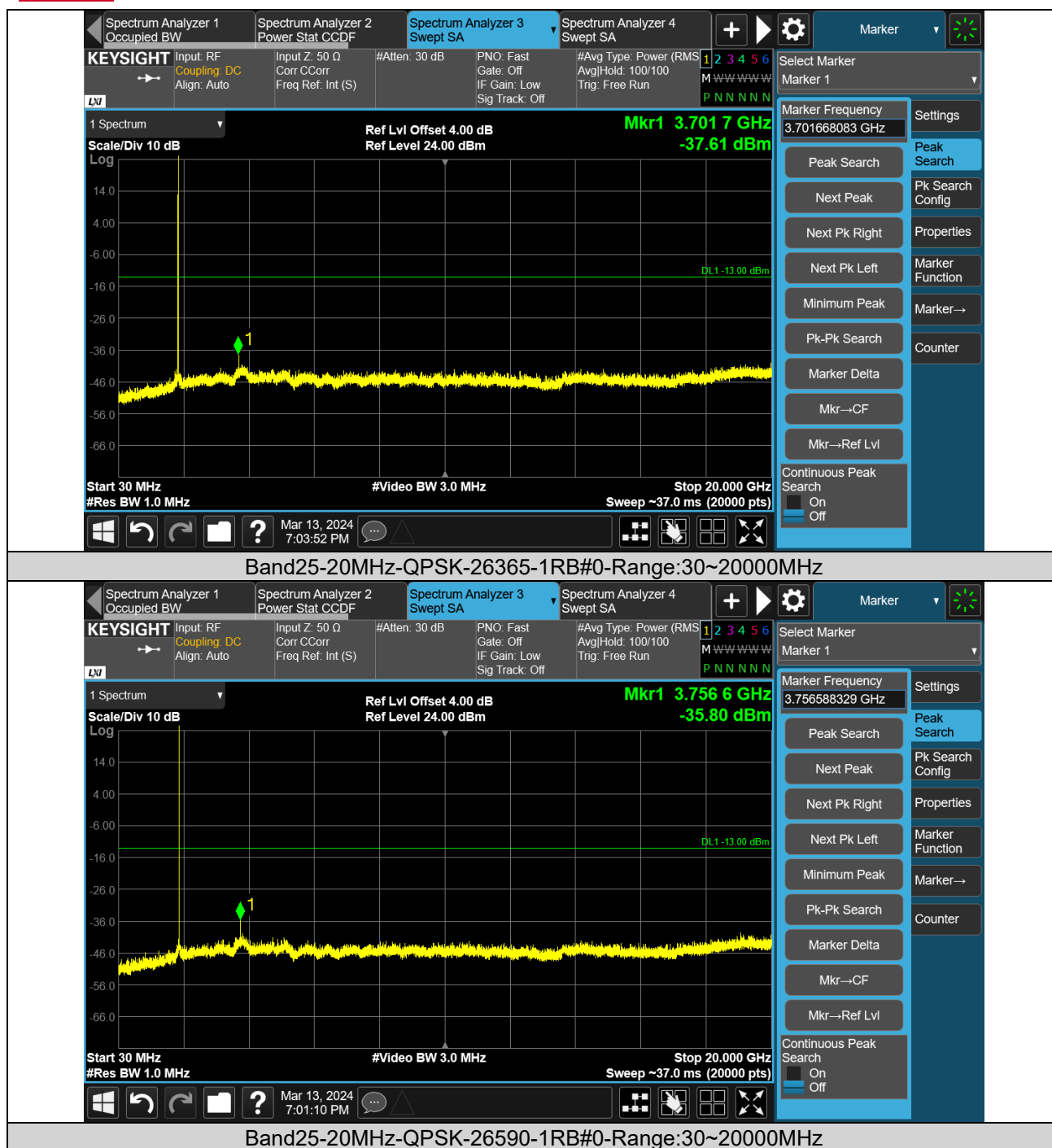
Test Report No.: W7L-240204W001RF02





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VERITAS

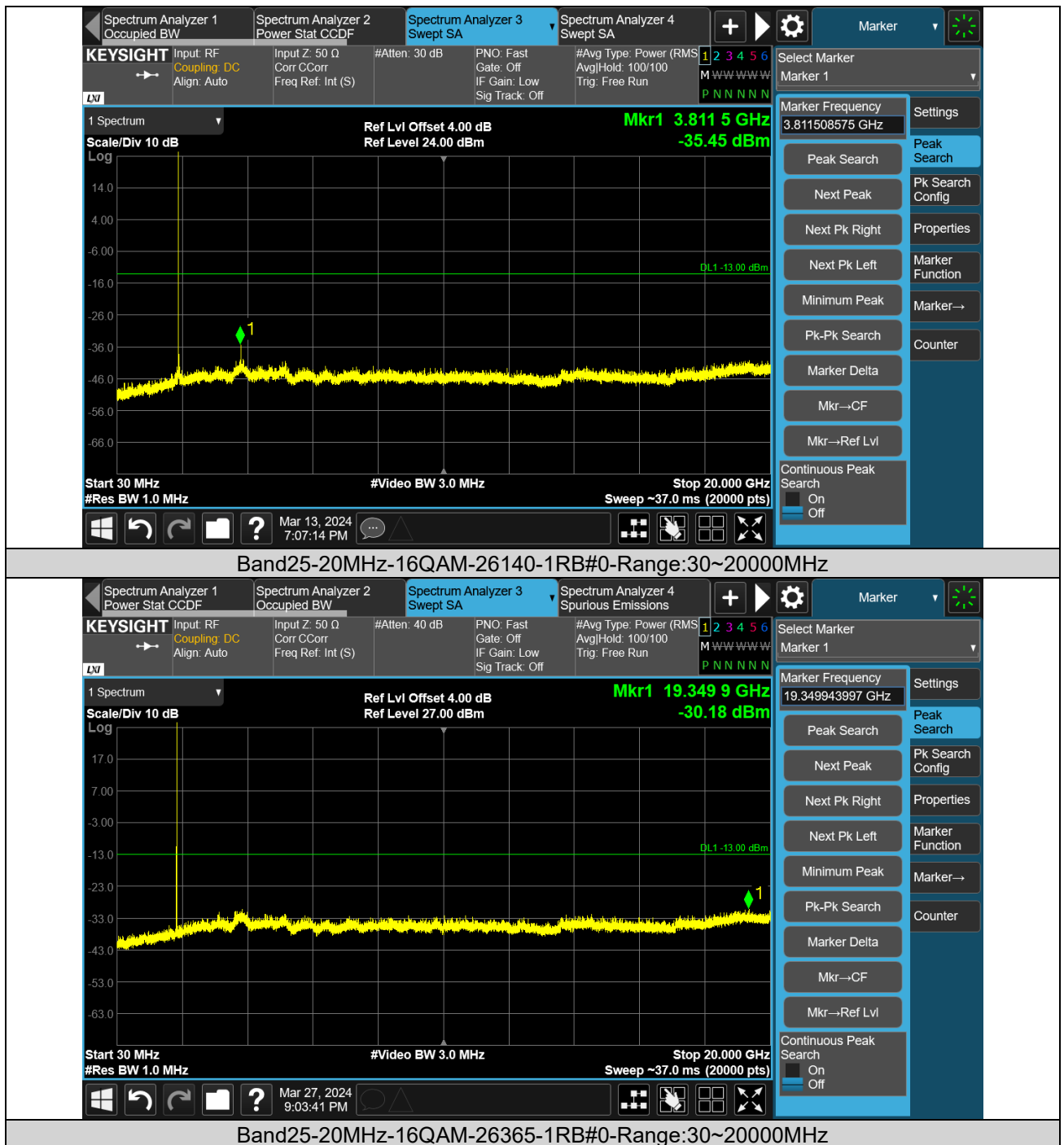
Test Report No.: W7L-240204W001RF02





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VERITAS

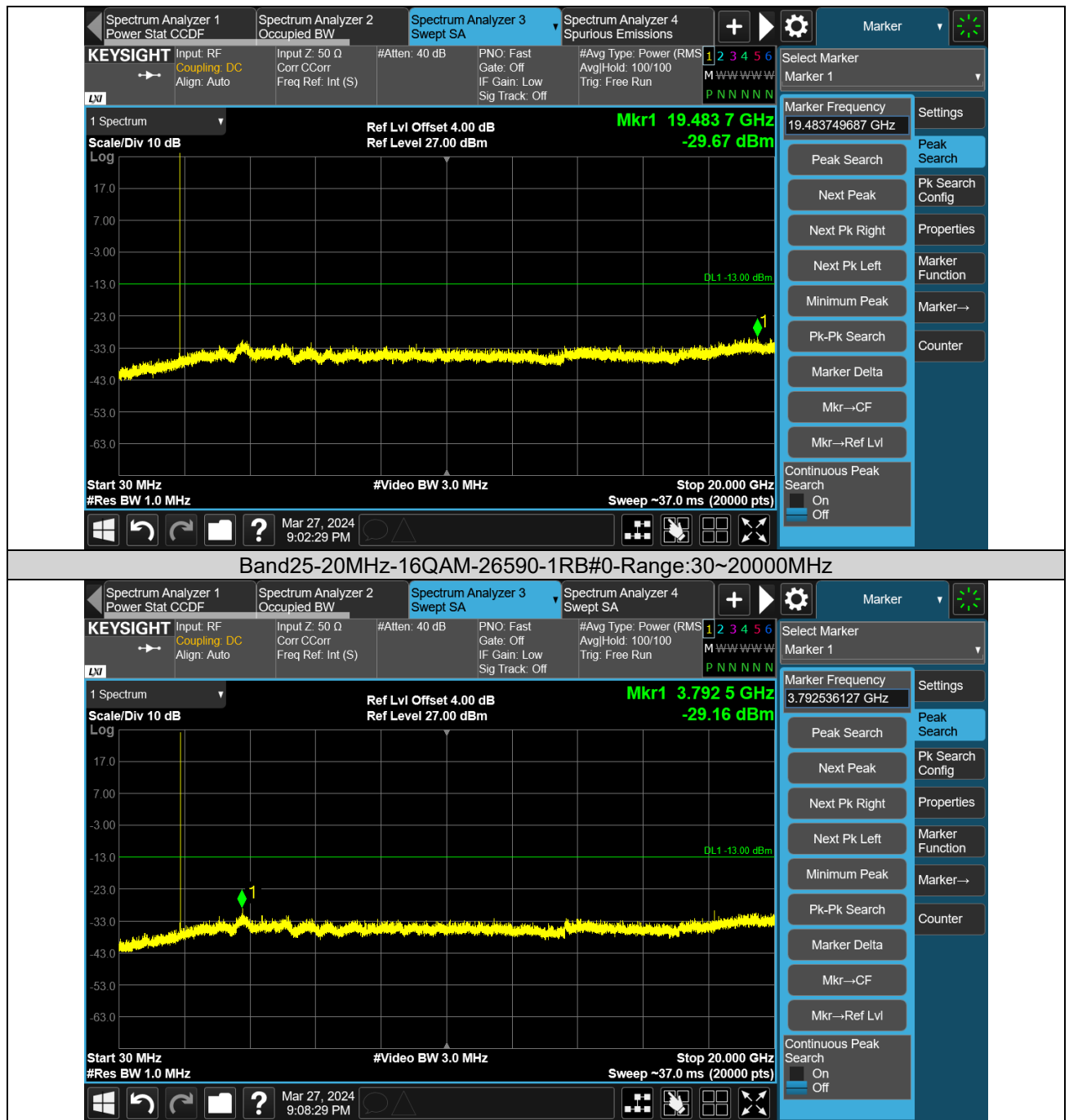
Test Report No.: W7L-240204W001RF02





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Test Report No.: W7L-240204W001RF02



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26140	6RB#0	VL	NT	3.4	0.001828	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	VN	NT	-24	-0.012903	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	VH	NT	-23.5	-0.012634	±2.5	PASS

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Tower N, Innovation Center, 88 Zhuyi Road,
High-tech District, Suzhou City, Anhui Province

Tel: +86 (0557) 368 1008



**BUREAU
VERITAS**

Test Report No.: W7L-240204W001RF02

Band25	20MHz	QPSK	26365	6RB#0	VL	NT	18.3	0.009734	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	VN	NT	24.4	0.012979	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	VH	NT	13.7	0.007287	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	VL	NT	-7.6	-0.003990	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	VN	NT	24.2	0.012703	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	VH	NT	-12.6	-0.006614	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	VL	NT	27	0.014516	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	VN	NT	20.2	0.010860	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	VH	NT	-11.7	-0.006290	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	VL	NT	27	0.014362	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	VN	NT	21.1	0.011223	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	VH	NT	5.2	0.002766	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	VL	NT	27	0.014173	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	VN	NT	-3.9	-0.002047	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	VH	NT	5.1	0.002677	±2.5	PASS

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	20MHz	QPSK	26140	6RB#0	NV	-30	-10.5	-0.005645	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	-20	15.9	0.008548	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	-10	-8.3	-0.004462	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	0	17.6	0.009462	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	10	1.1	0.000591	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	20	4.7	0.002527	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	30	-28.4	-0.015269	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	40	16.9	0.009086	±2.5	PASS
Band25	20MHz	QPSK	26140	6RB#0	NV	50	-19.3	-0.010376	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	-30	19.6	0.010426	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	-20	-4	-0.002128	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	-10	-22.9	-0.012181	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	0	10	0.005319	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	10	22.9	0.012181	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	20	16.8	0.008936	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	30	30.4	0.016170	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	40	4.9	0.002606	±2.5	PASS
Band25	20MHz	QPSK	26365	6RB#0	NV	50	34.4	0.018298	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	-30	9.3	0.004882	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	-20	-2.1	-0.001102	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	-10	-10.1	-0.005302	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	0	34.8	0.018268	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	10	34.3	0.018005	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	20	-9.2	-0.004829	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	30	-15.1	-0.007927	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	40	-27.7	-0.014541	±2.5	PASS
Band25	20MHz	QPSK	26590	6RB#0	NV	50	7.3	0.003832	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	-30	-10.5	-0.005645	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	-20	-23.1	-0.012419	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	-10	1	0.000538	±2.5	PASS



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Test Report No.: W7L-240204W001RF02

Band25	20MHz	16QAM	26140	6RB#0	NV	0	27.9	0.015000	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	10	-3.3	-0.001774	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	20	9.6	0.005161	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	30	6.5	0.003495	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	40	30.1	0.016183	±2.5	PASS
Band25	20MHz	16QAM	26140	6RB#0	NV	50	16.5	0.008871	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	-30	9.9	0.005266	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	-20	-34.1	-0.018138	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	-10	-34.4	-0.018298	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	0	-19.4	-0.010319	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	10	-22.1	-0.011755	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	20	-8.7	-0.004628	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	30	-3.1	-0.001649	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	40	-8.6	-0.004574	±2.5	PASS
Band25	20MHz	16QAM	26365	6RB#0	NV	50	29.9	0.015904	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	-30	-22.2	-0.011654	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	-20	-7	-0.003675	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	-10	7.6	0.003990	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	0	-8.5	-0.004462	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	10	-21.5	-0.011286	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	20	-24.2	-0.012703	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	30	-11.7	-0.006142	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	40	-10.2	-0.005354	±2.5	PASS
Band25	20MHz	16QAM	26590	6RB#0	NV	50	5.3	0.002782	±2.5	PASS



Test Report No.: W7L-240204W001RF02

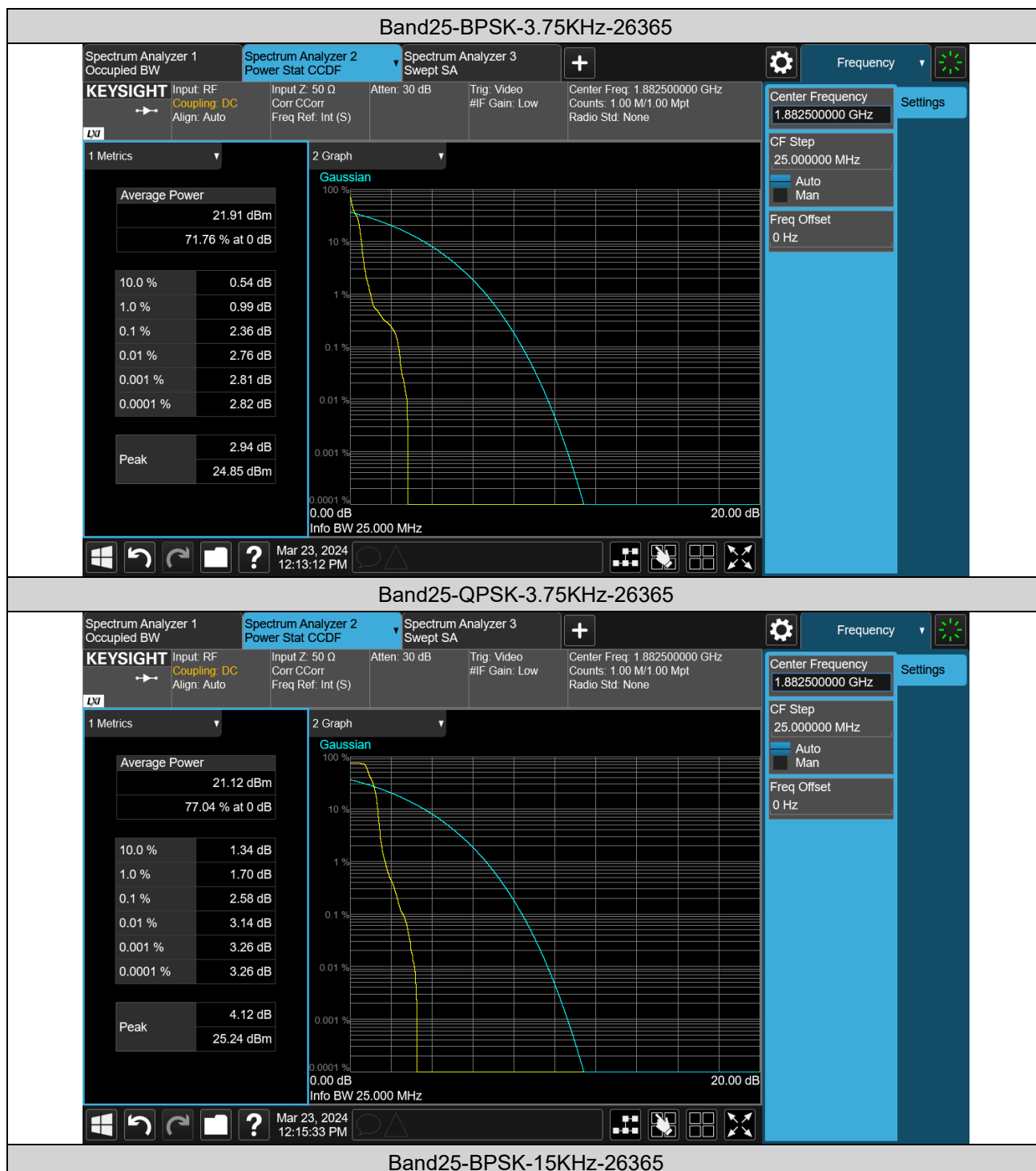
NB-IOT: LTE BAND25(INCLUDING LTE BAND2)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Modulation	Sub-carrier spacing(KHz)	Channel	Result(dB)	Limit(dB)	Verdict
Band25	BPSK	3.75	26365	2.36	13	PASS
	QPSK	3.75	26365	2.58	13	PASS
	BPSK	15	26365	2.31	13	PASS
	QPSK	15	26365	2.53	13	PASS

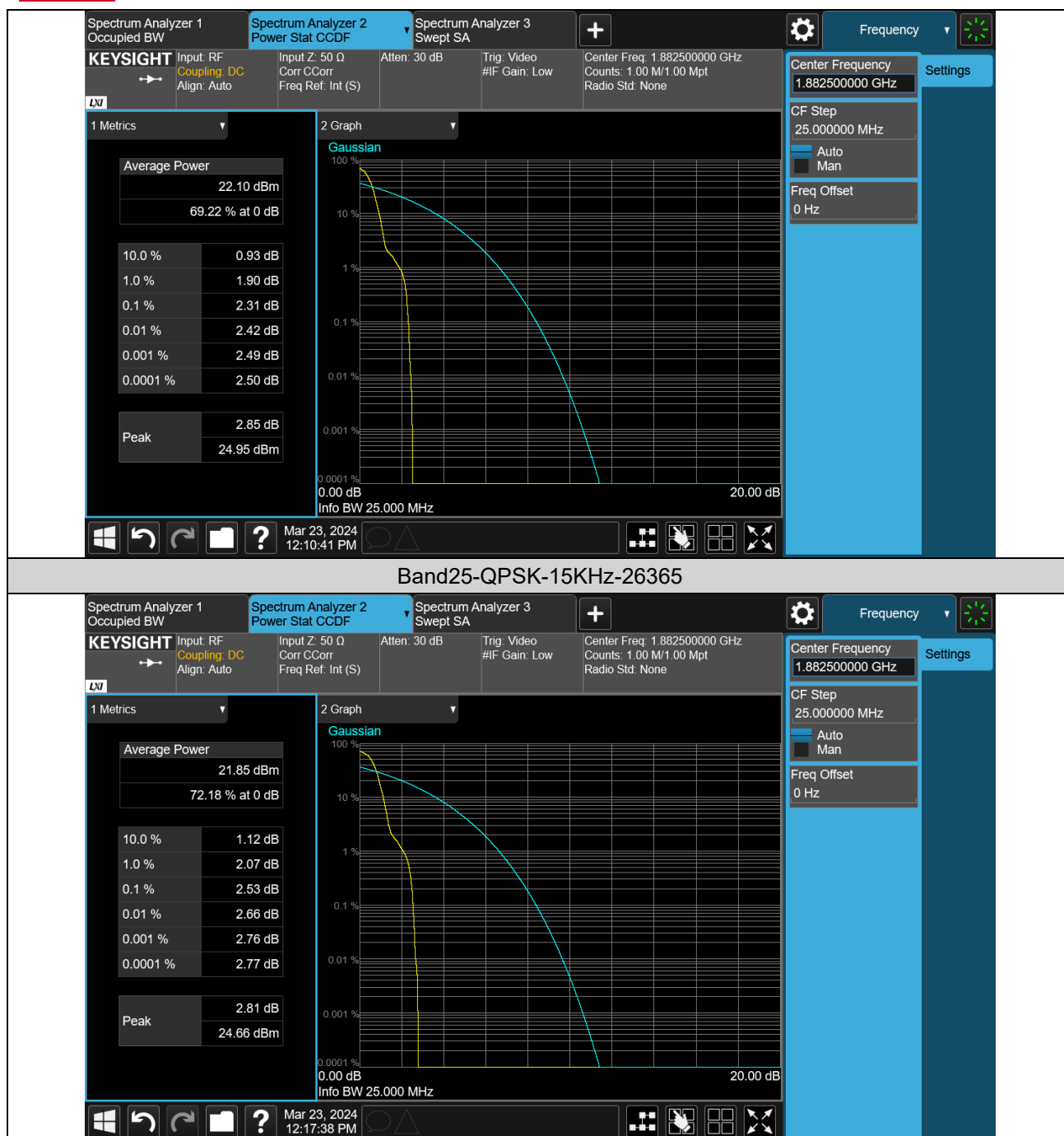
Test Graphs





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Test Report No.: W7L-240204W001RF02



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

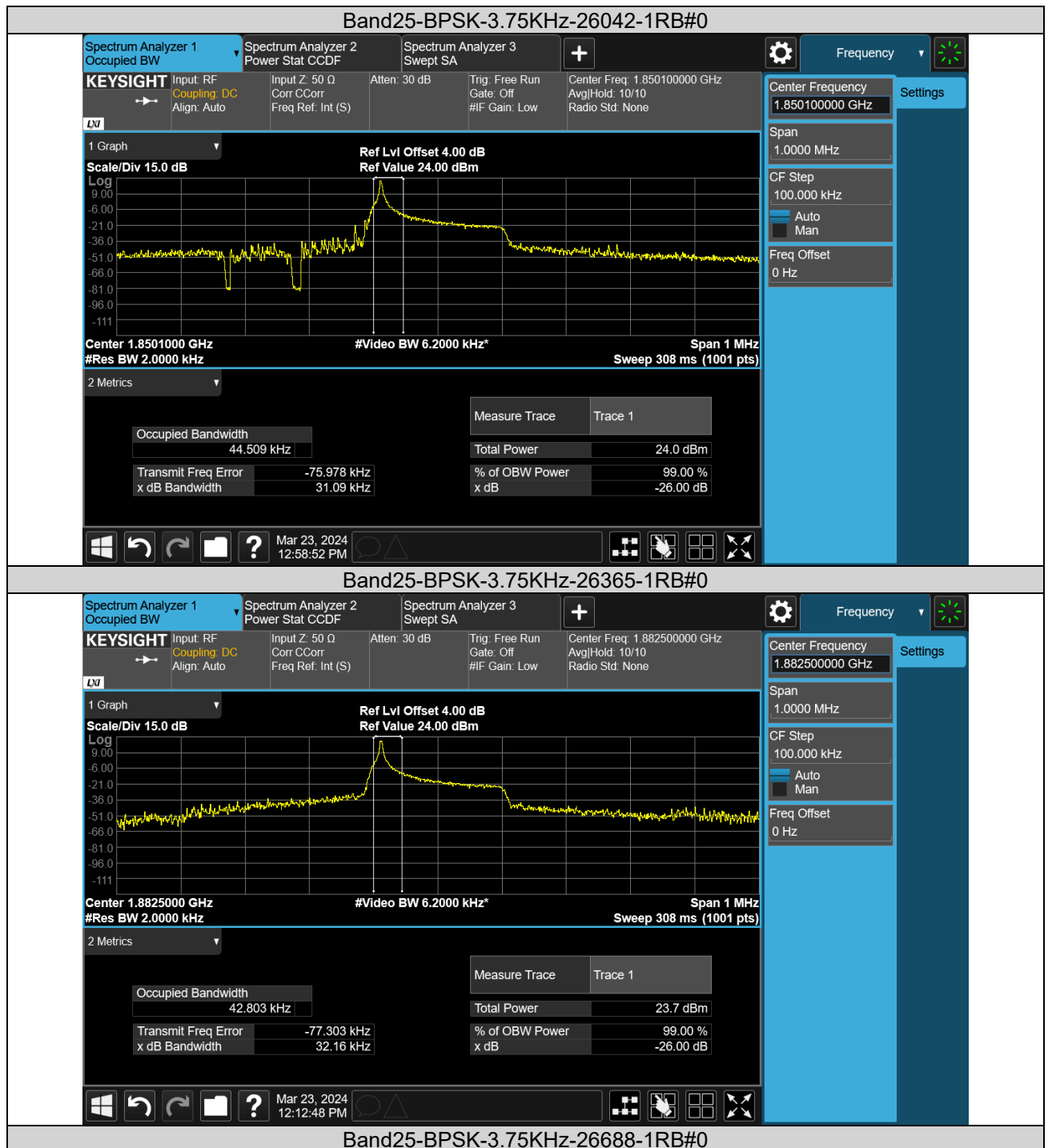
Band	Modulation	Sub-carrier spacing(KHz)	Channel	Ntones	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
Band25	BPSK	3.75	26042	1RB#0	44.509	31.09	PASS
Band25	BPSK	3.75	26365	1RB#0	42.803	32.16	PASS
Band25	BPSK	3.75	26688	1RB#0	41.853	31.99	PASS
Band25	QPSK	3.75	26042	1RB#0	49.268	35.21	PASS
Band25	QPSK	3.75	26365	1RB#0	48.954	35.25	PASS
Band25	QPSK	3.75	26688	1RB#0	48.801	35.29	PASS
Band25	BPSK	15	26042	1RB#0	121.60	114.5	PASS
Band25	BPSK	15	26365	1RB#0	107.84	88.88	PASS
Band25	BPSK	15	26688	1RB#0	113.28	118.0	PASS
Band25	QPSK	15	26042	1RB#0	102.83	129.6	PASS
Band25	QPSK	15	26365	1RB#0	95.329	116.2	PASS
Band25	QPSK	15	26688	1RB#0	107.27	101.0	PASS
Band25	QPSK	15	26042	12RB#0	187.16	202.5	PASS
Band25	QPSK	15	26365	12RB#0	189.60	201.6	PASS
Band25	QPSK	15	26688	12RB#0	190.62	202.9	PASS



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VERITAS

Test Report No.: W7L-240204W001RF02

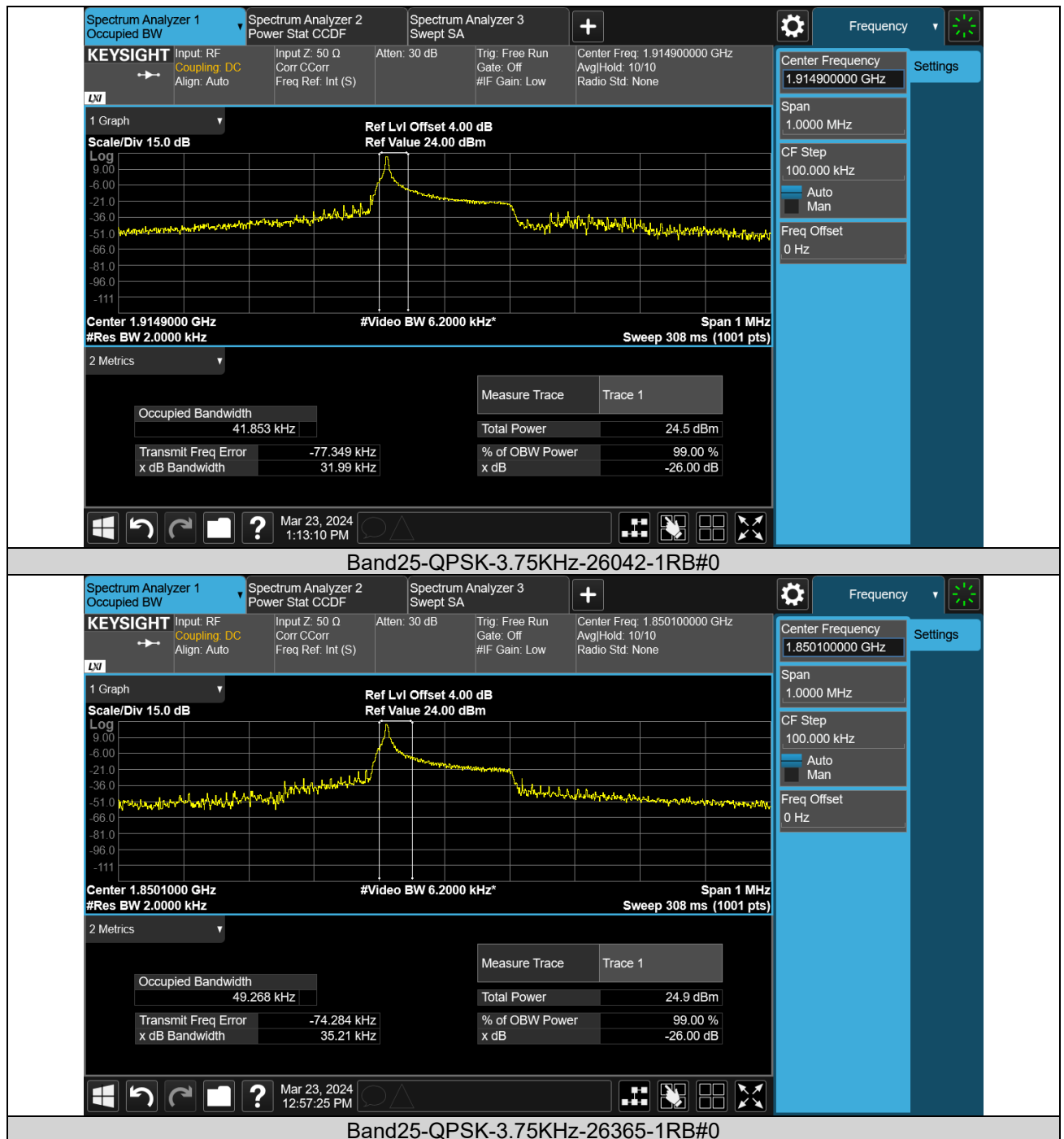
Test Graphs





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VERITAS

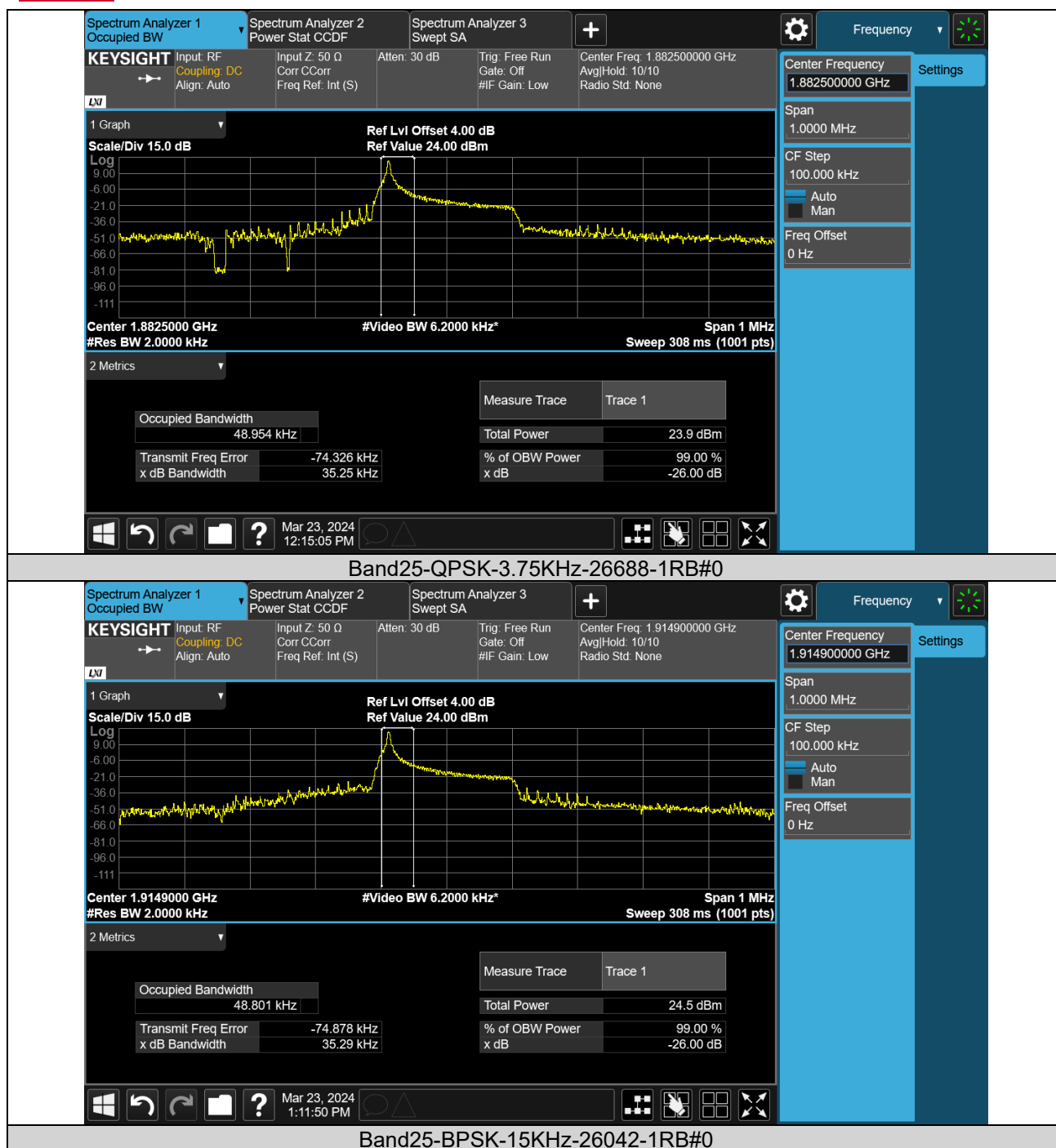
Test Report No.: W7L-240204W001RF02





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VERITAS

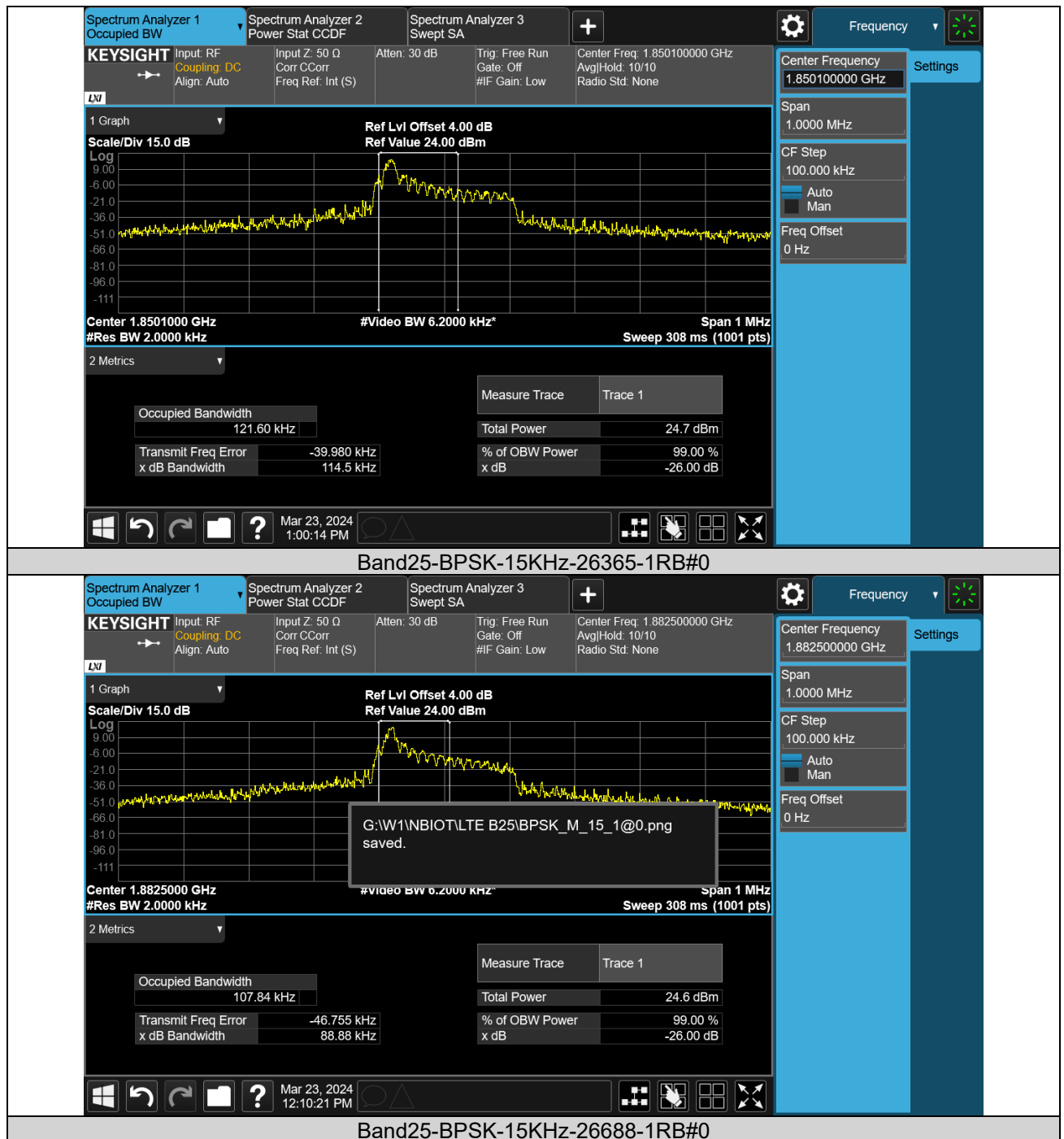
Test Report No.: W7L-240204W001RF02





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VERITAS

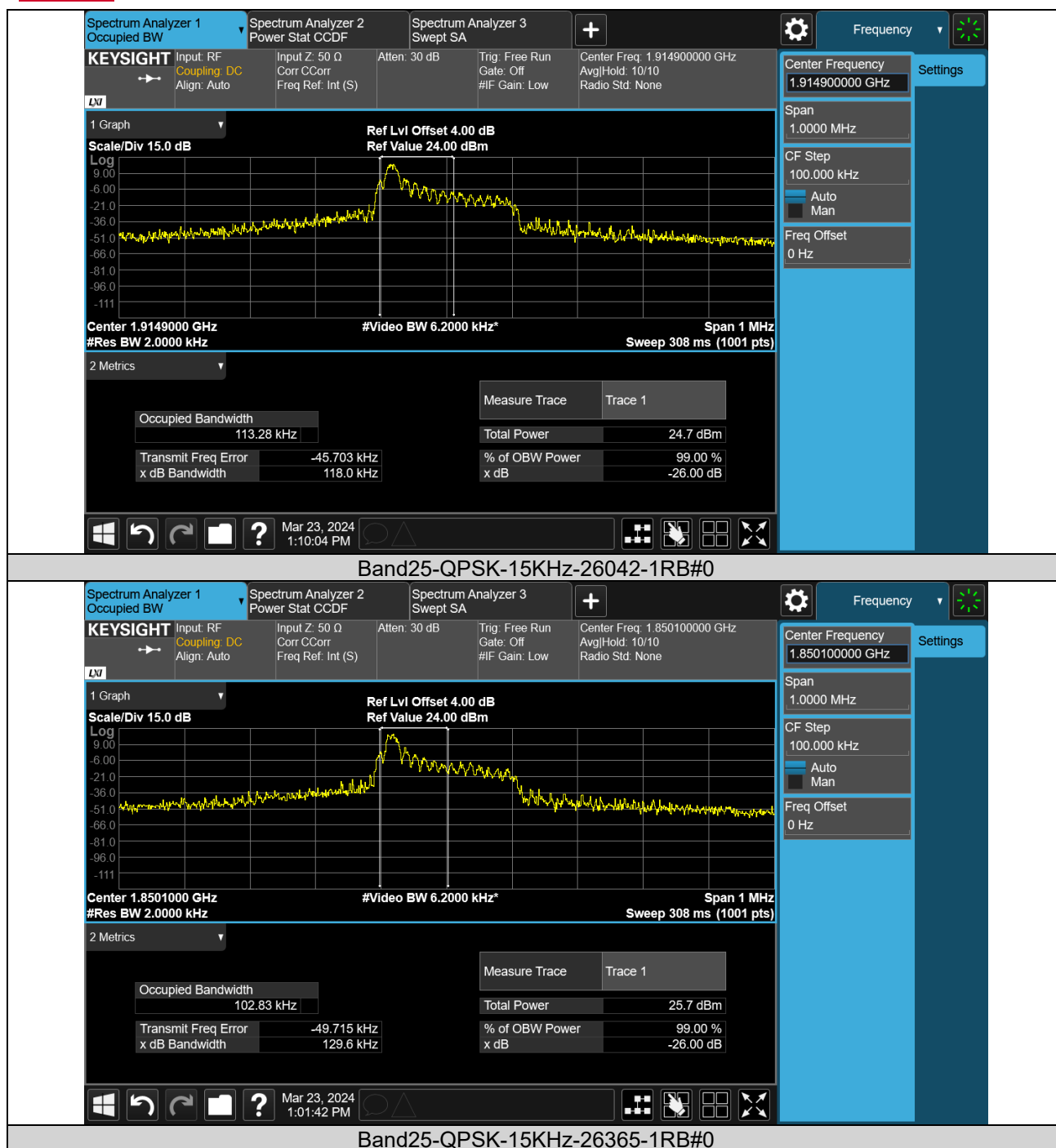
Test Report No.: W7L-240204W001RF02





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VERITAS

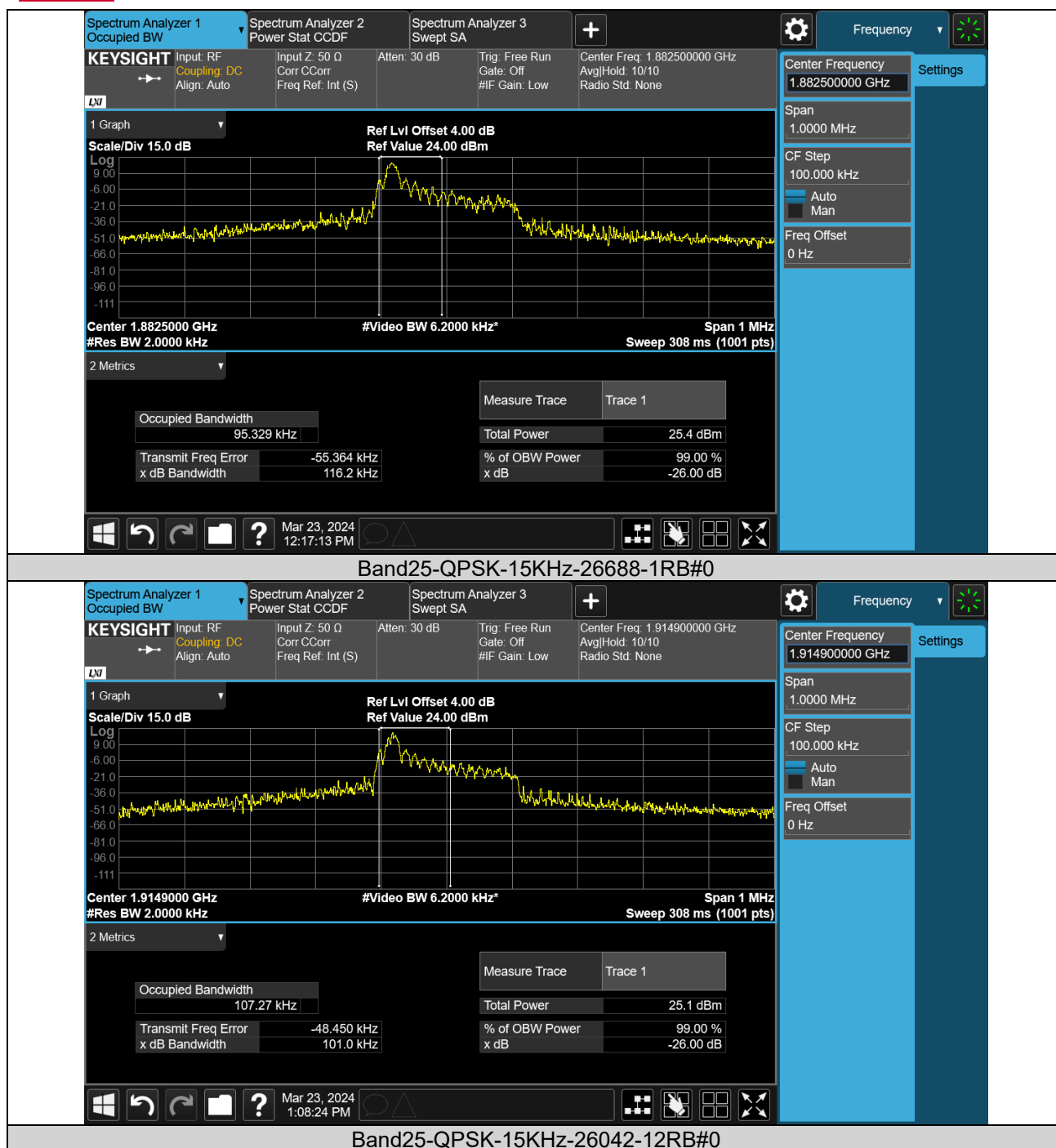
Test Report No.: W7L-240204W001RF02





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VERITAS

Test Report No.: W7L-240204W001RF02



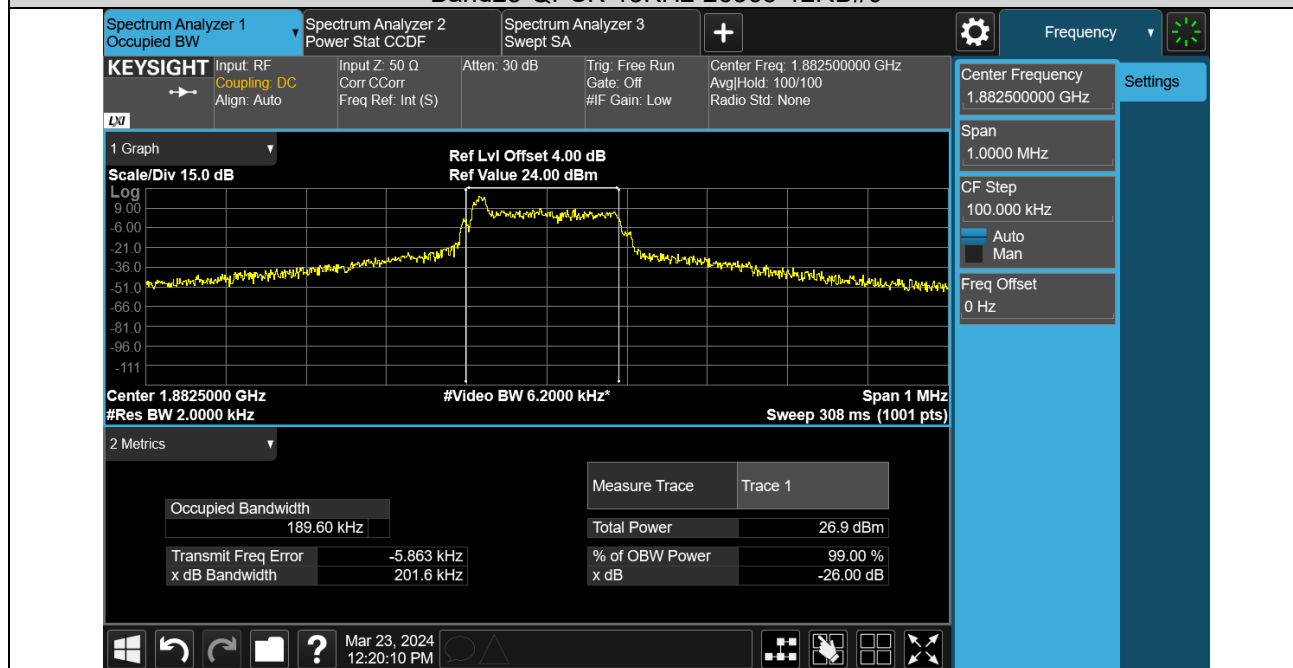


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VERITAS

Test Report No.: W7L-240204W001RF02



Band25-QPSK-15KHz-26365-12RB#0



Band25-QPSK-15KHz-26688-12RB#0