



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Page: 1 of 61

Effective (Isotropic) Radiated Output Power Data

Band 23 SCS 15kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	2000.1	12@0	23.22	3.3	26.52
QPSK		1@1	23.35	3.3	26.65
QPSK		1@10	23.16	3.3	26.46
BPSK		1@1	23.09	3.3	26.39
BPSK		1@10	23.15	3.3	26.45
QPSK	2010	12@0	22.93	3.3	26.23
QPSK		1@1	23.81	3.3	27.11
QPSK		1@10	23.14	3.3	26.44
BPSK		1@1	23.32	3.3	26.62
BPSK		1@10	23.26	3.3	26.56
QPSK	2019.9	12@0	23.25	3.3	26.55
QPSK		1@1	23.58	3.3	26.88
QPSK		1@10	23.1	3.3	26.4
BPSK		1@1	23.49	3.3	26.79
BPSK		1@10	23.02	3.3	26.32

Band 23 SCS 3.75kHz					
Modulation	Frequency(MHz)	Ntones	Conducted Power(dBm)	Antenna Gain(dBi)	EIRP (dBm)
QPSK	2000.1	1@1	23.24	3.3	26.54
QPSK		1@46	23.19	3.3	26.49
BPSK		1@1	23.14	3.3	26.44
BPSK		1@46	23.08	3.3	26.38
QPSK	2010	1@1	23.35	3.3	26.65
QPSK		1@46	23.14	3.3	26.44
BPSK		1@1	23.18	3.3	26.48
BPSK		1@46	23.12	3.3	26.42
QPSK	2019.9	1@1	23.26	3.3	26.56
QPSK		1@46	23.19	3.3	26.49
BPSK		1@1	23.24	3.3	26.54
BPSK		1@46	23.13	3.3	26.43



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99% & 26dB Bandwidth

Test Result

Band 23 SCS 15kHz						
Modulation	CH	N _{tones} Allocation	99% Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)	Verdict
QPSK	Low CH	12@0	202.18	284.0	/	Pass
QPSK		1@1	125.47	128.6	/	Pass
QPSK		1@10	122.32	102.5	/	Pass
BPSK		1@1	122.09	105.5	/	Pass
BPSK		1@10	123.39	115.7	/	Pass
QPSK	Middle CH	12@0	197.64	302.3	/	Pass
QPSK		1@1	106.63	112.4	/	Pass
QPSK		1@10	126.82	115.1	/	Pass
BPSK		1@1	125.38	140.9	/	Pass
BPSK		1@10	128.08	144.4	/	Pass
QPSK	High CH	12@0	195.58	290.3	/	Pass
QPSK		1@1	126.07	153.6	/	Pass
QPSK		1@10	124.13	104.5	/	Pass
BPSK		1@1	124.55	141.0	/	Pass
BPSK		1@10	123.27	126.3	/	Pass

Band 23 SCS 3.75kHz						
Modulation	CH	N _{tones} Allocation	99% Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit (kHz)	Verdict
QPSK	Low CH	1@1	53.687	33.56	/	Pass
QPSK		1@46	53.647	33.54	/	Pass
BPSK		1@1	53.881	37.38	/	Pass
BPSK		1@46	53.256	34.14	/	Pass
QPSK	Middle CH	1@1	50.711	37.80	/	Pass
QPSK		1@46	55.673	40.77	/	Pass
BPSK		1@1	52.822	35.49	/	Pass
BPSK		1@46	49.853	31.00	/	Pass
QPSK	High CH	1@1	53.963	38.16	/	Pass
QPSK		1@46	52.674	37.97	/	Pass
BPSK		1@1	53.685	34.11	/	Pass
BPSK		1@46	51.679	31.95	/	Pass



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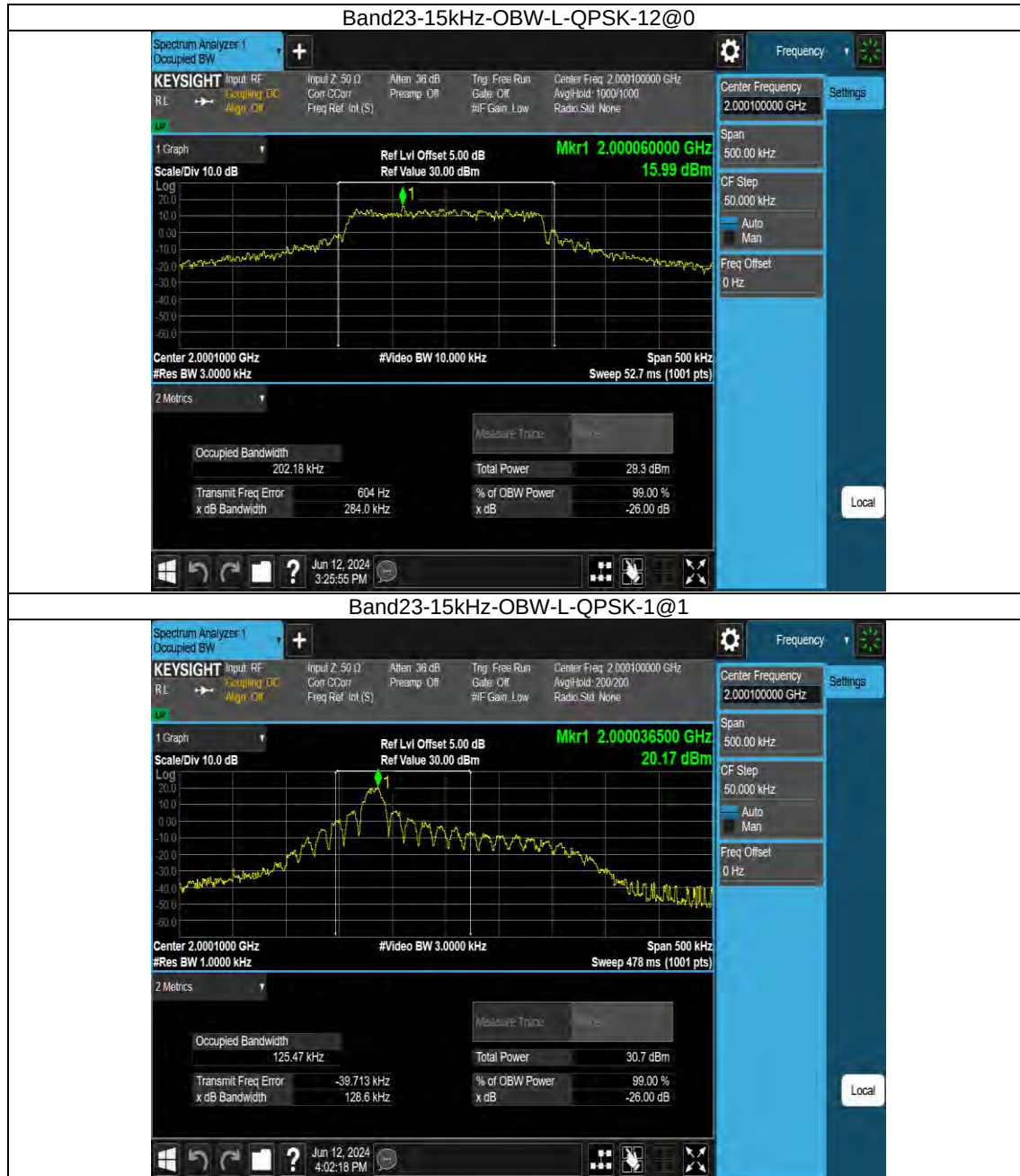
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Page: 3 of 61

Test graph



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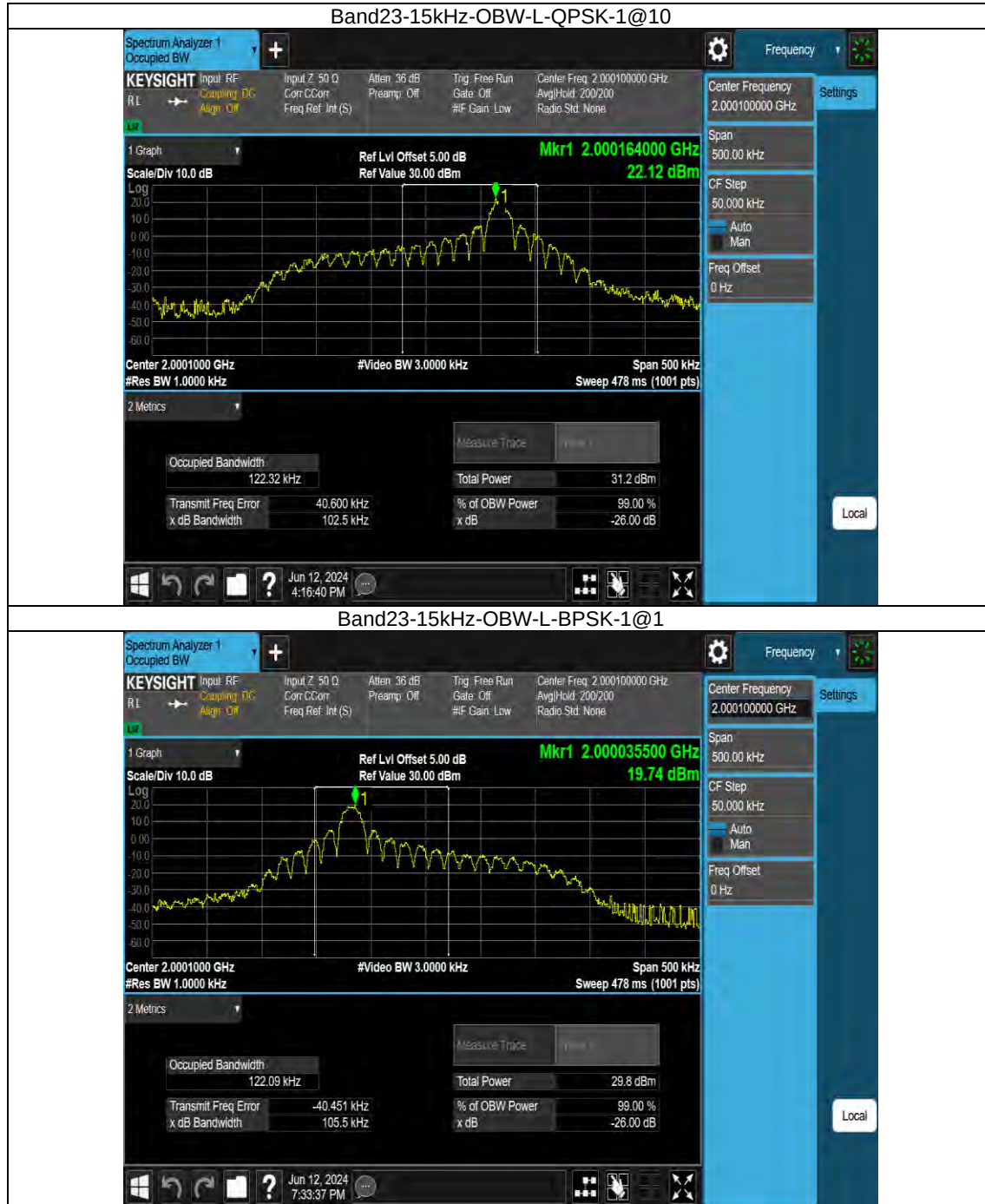
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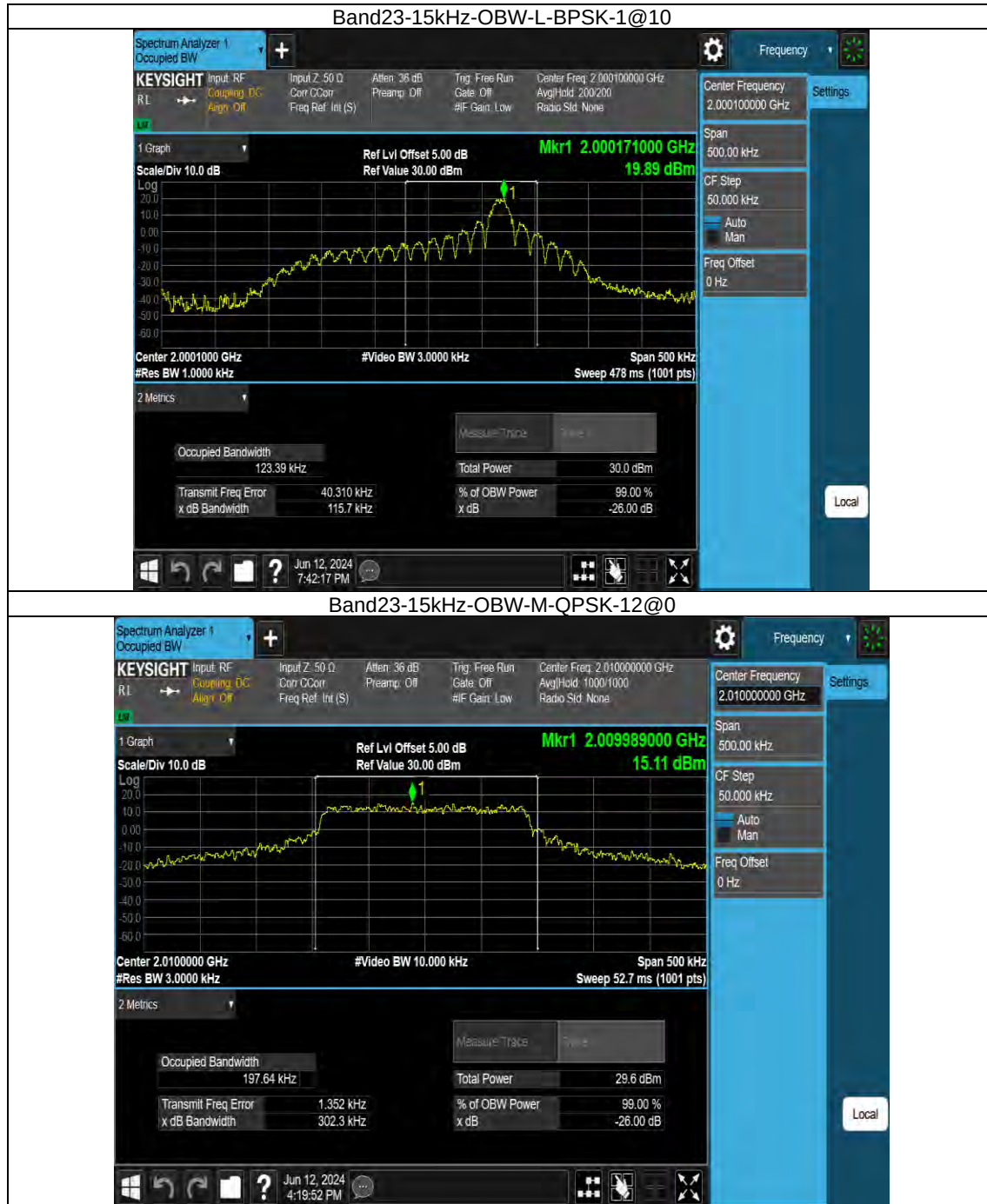
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Page: 5 of 61



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Page: 6 of 61

Band23-15kHz-OBW-M-QPSK-1@1



Band23-15kHz-OBW-M-QPSK-1@10



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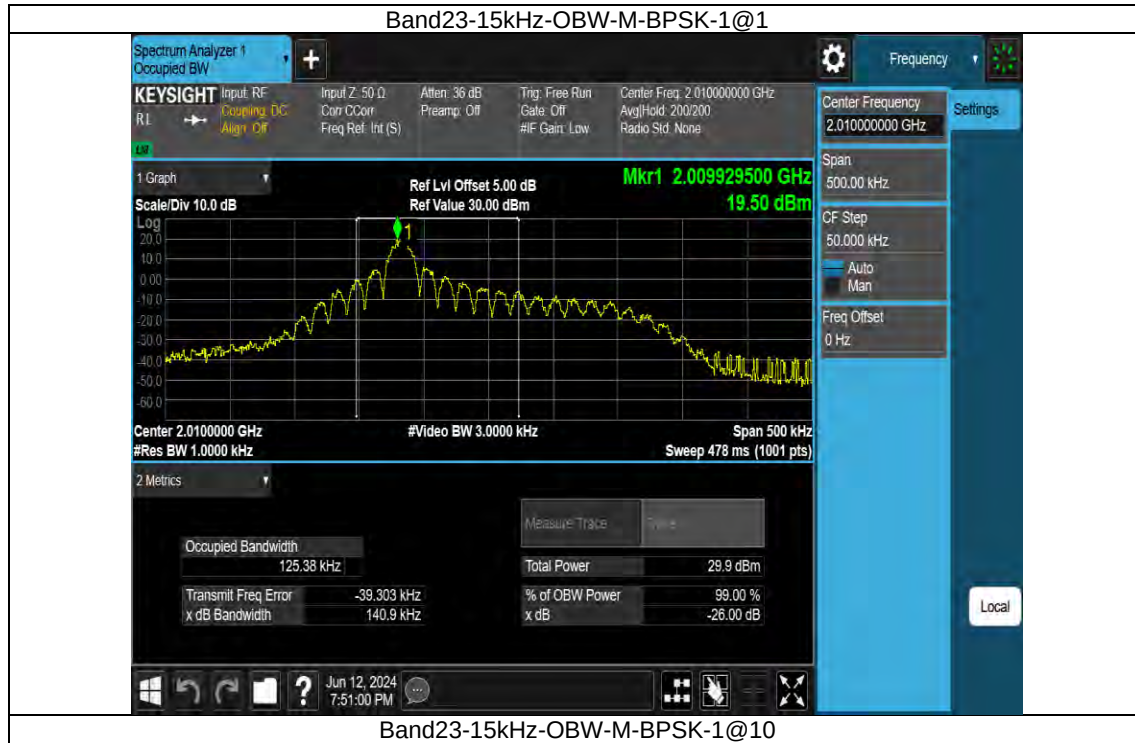
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Band23-15kHz-OBW-H-QPSK-12@0



Band23-15kHz-OBW-H-QPSK-1@1



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Band23-15kHz-OBW-H-QPSK-1@10



Band23-15kHz-OBW-H-BPSK-1@1



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Band23-15kHz-OBW-H-BPSK-1@10



Band23-3.75kHz-OBW-L-QPSK-1@1



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Band23-3.75kHz-OBW-L-QPSK-1@46



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Band23-3.75kHz-OBW-M-QPSK-1@1



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Band23-3.75kHz-OBW-M-QPSK-1@46



Band23-3.75kHz-OBW-M-BPSK-1@1



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Page: 14 of 61



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Band23-3.75kHz-OBW-H-QPSK-1@1



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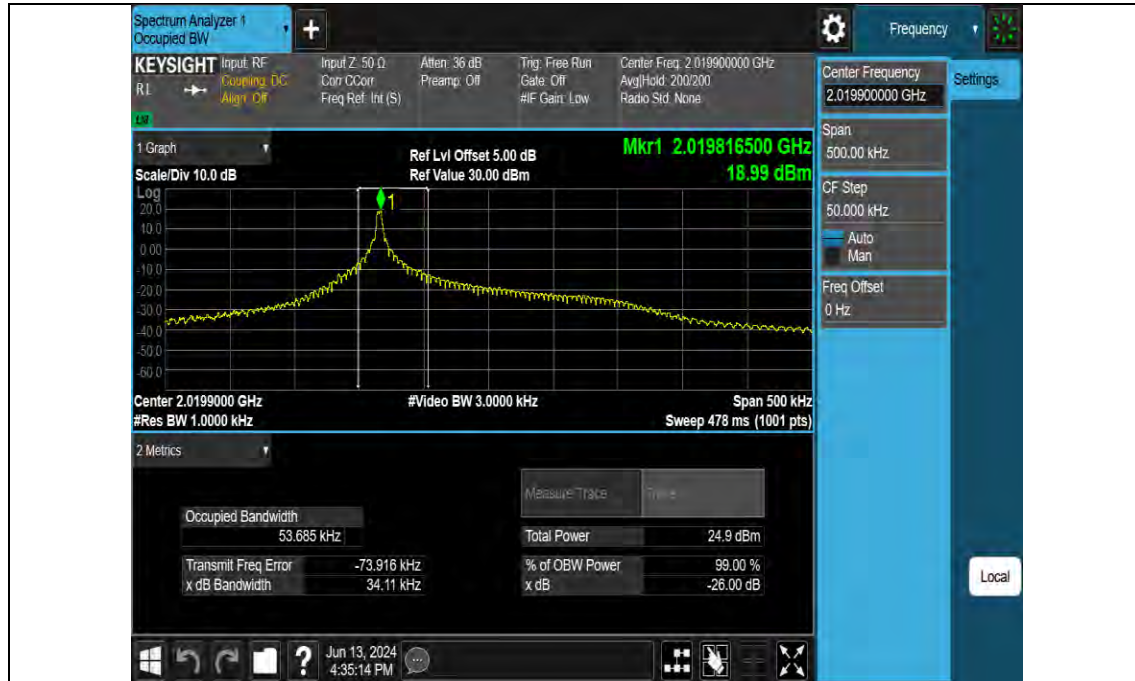
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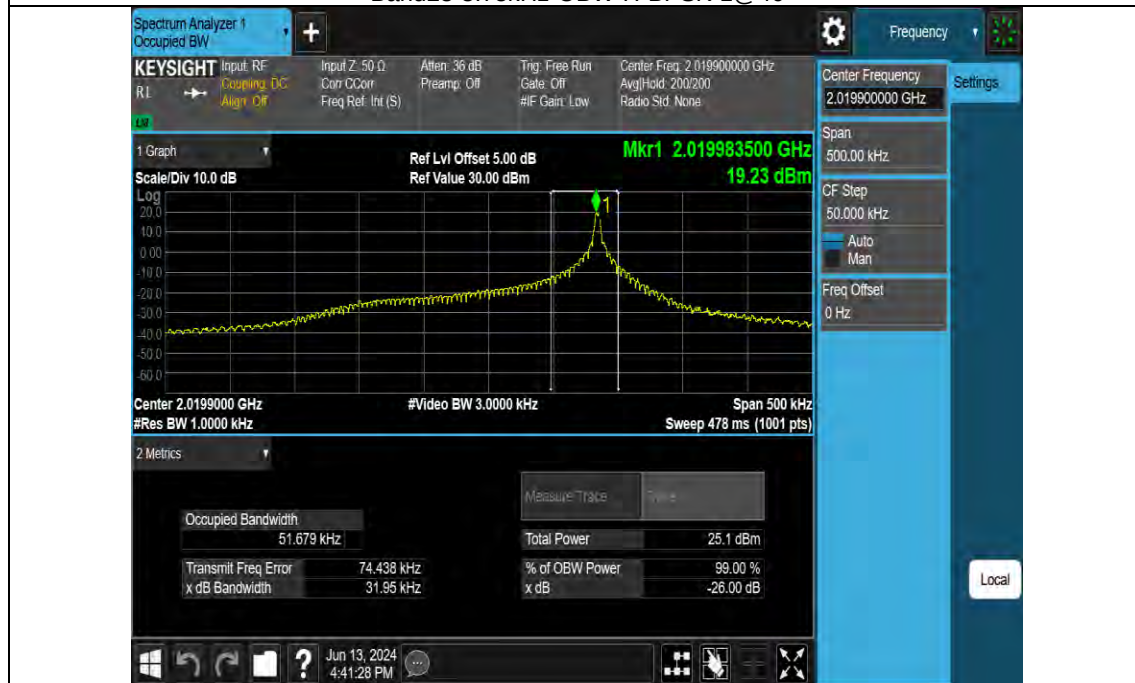


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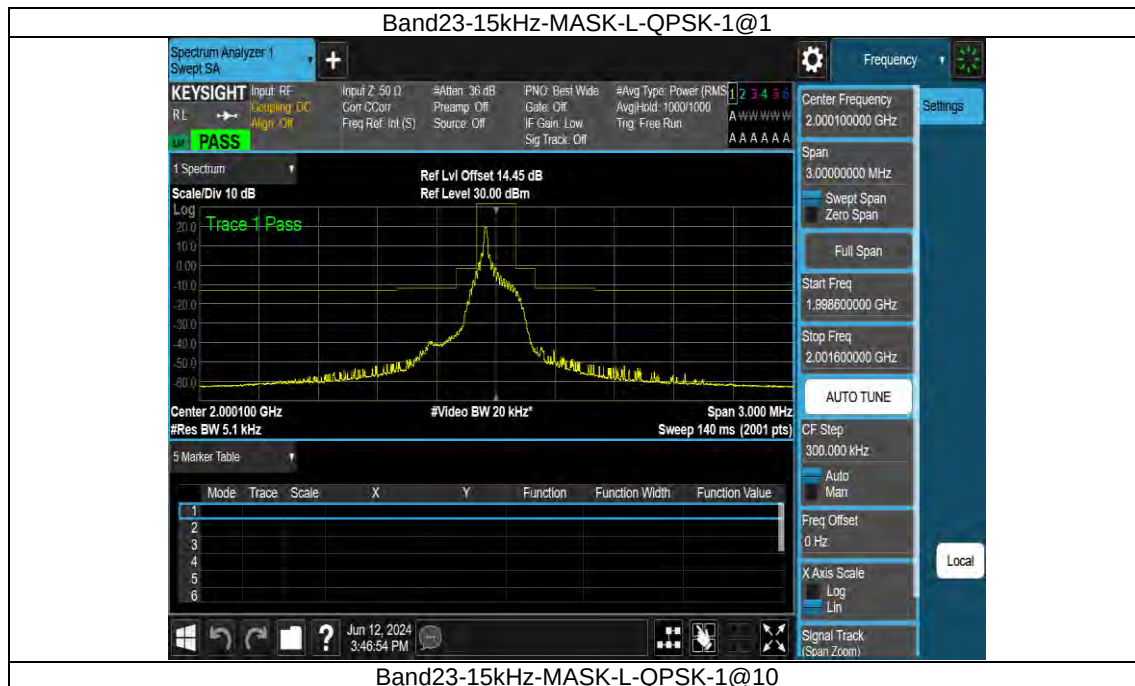
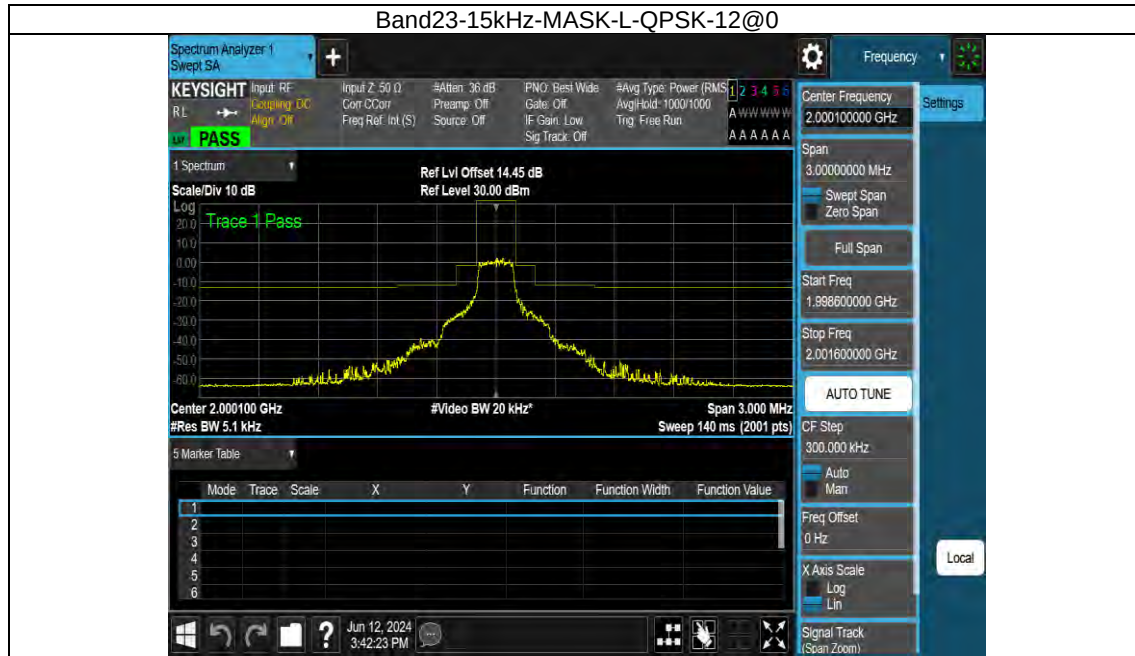
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Emission mask test Graph



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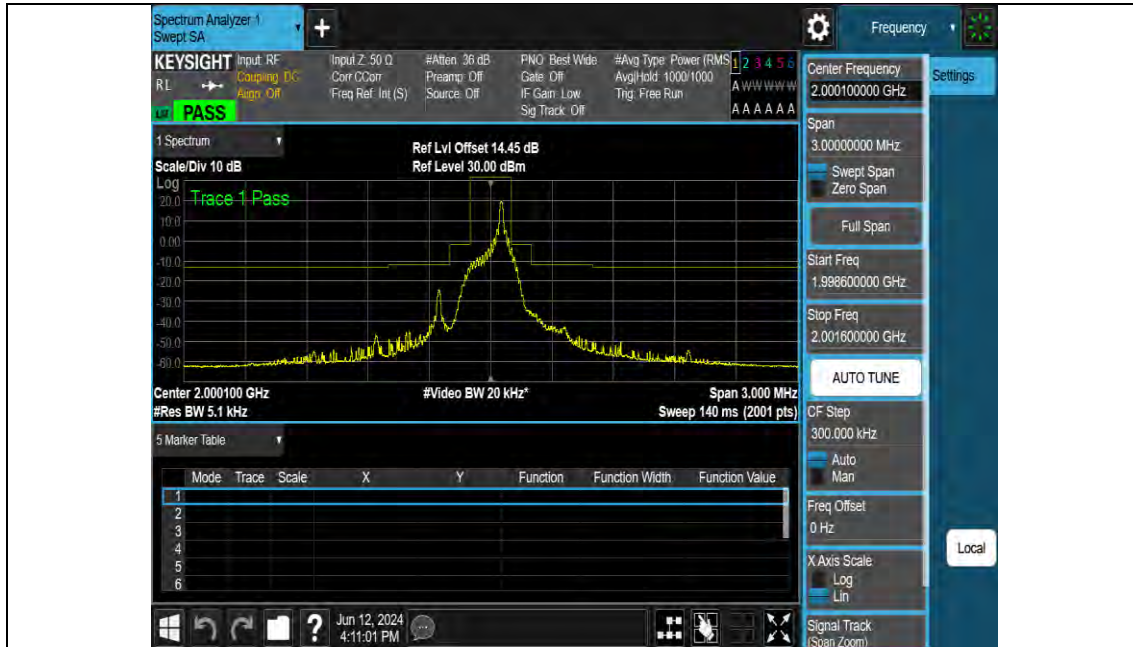
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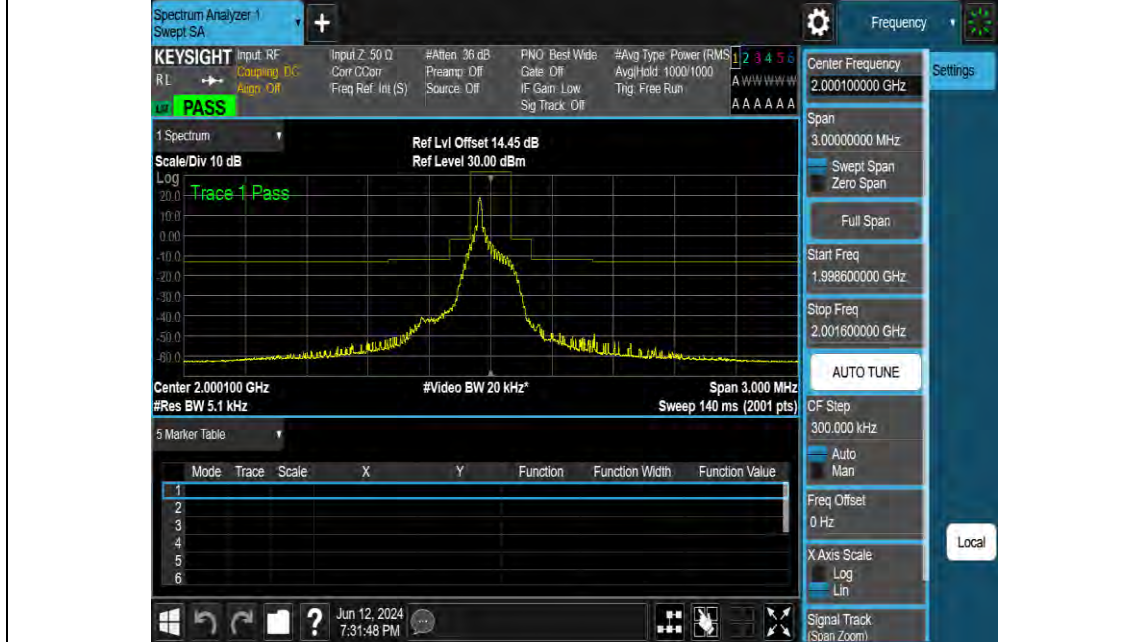


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Page: 18 of 61



Band23-15kHz-MASK-L-BPSK-1@1



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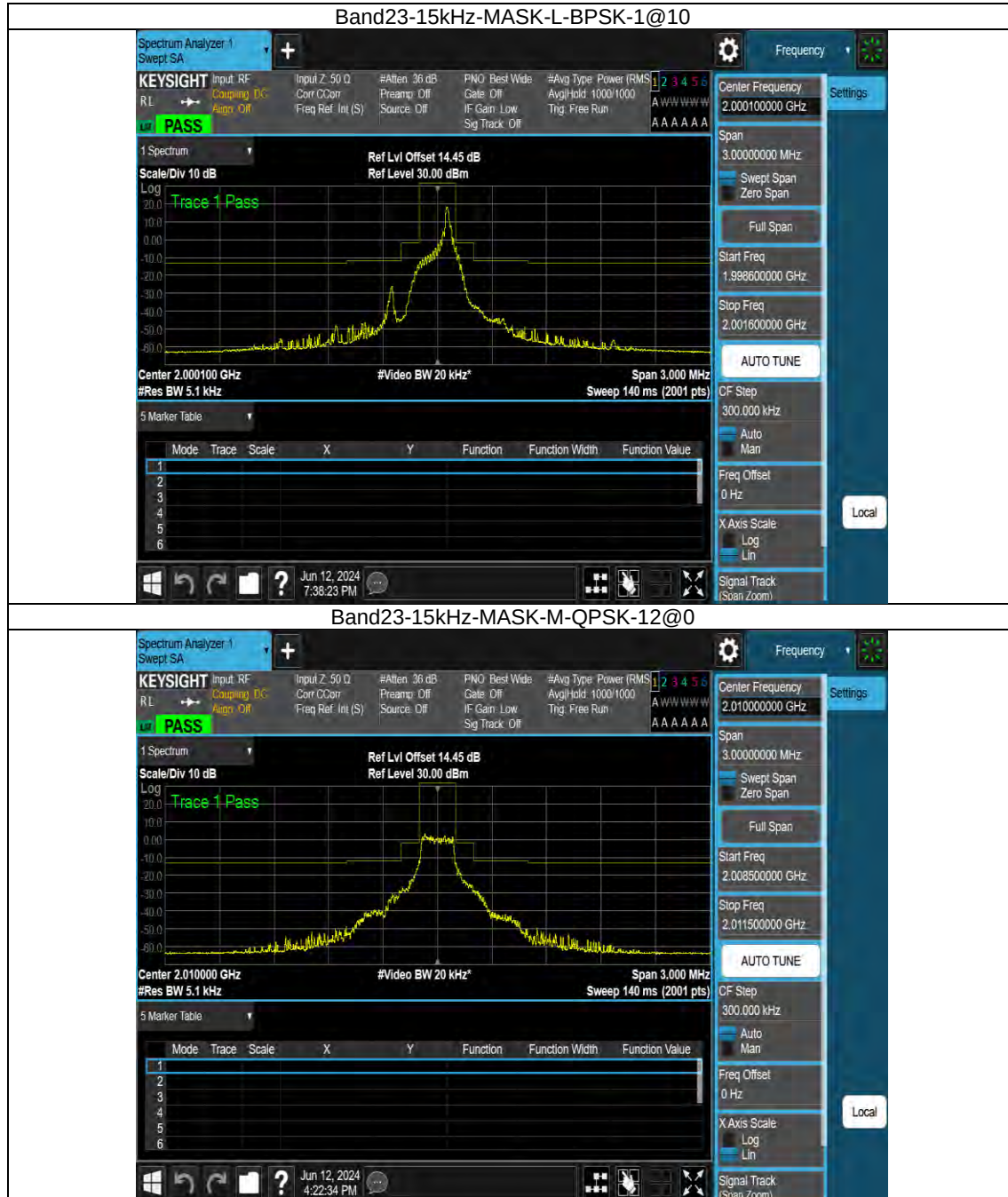
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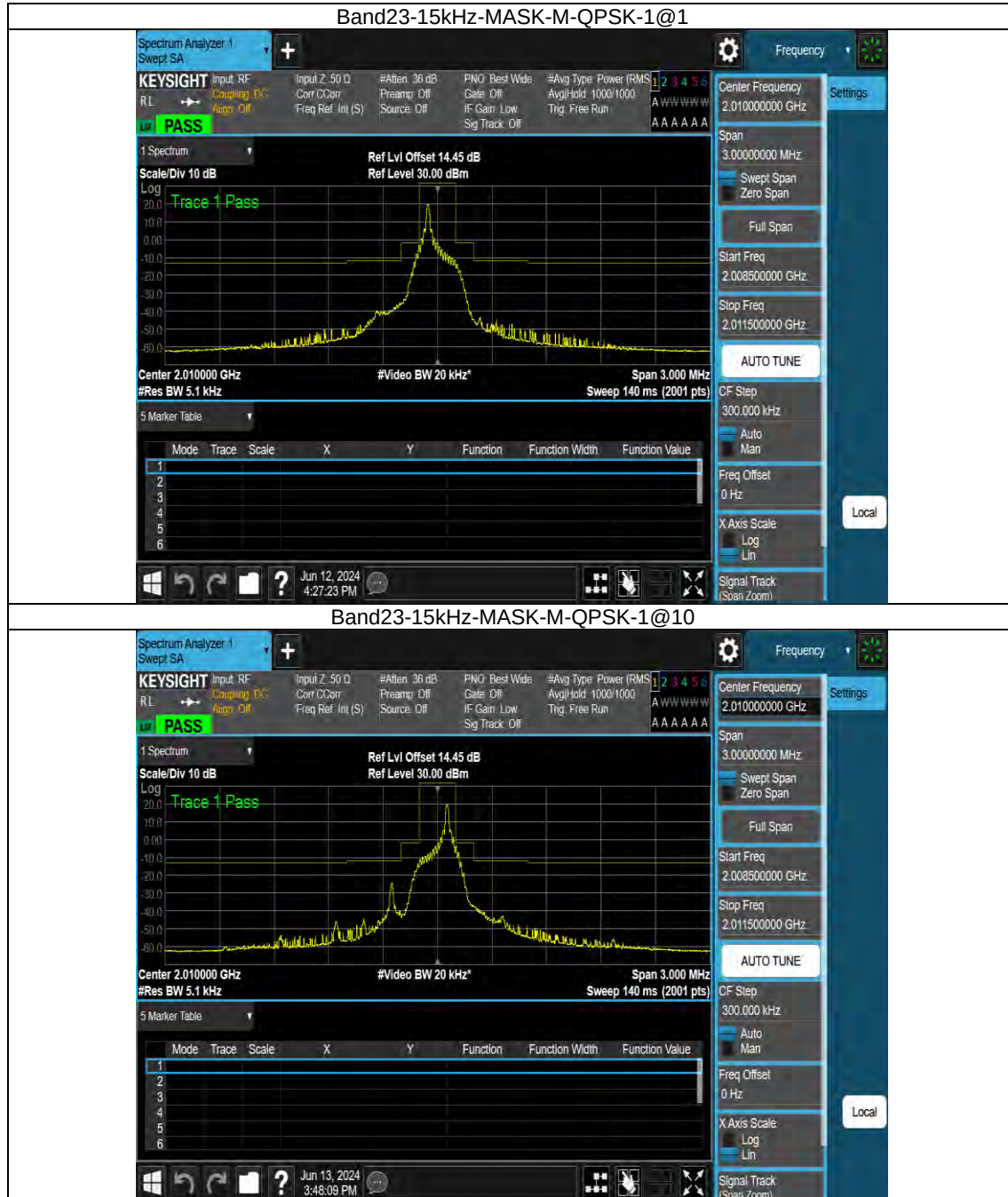
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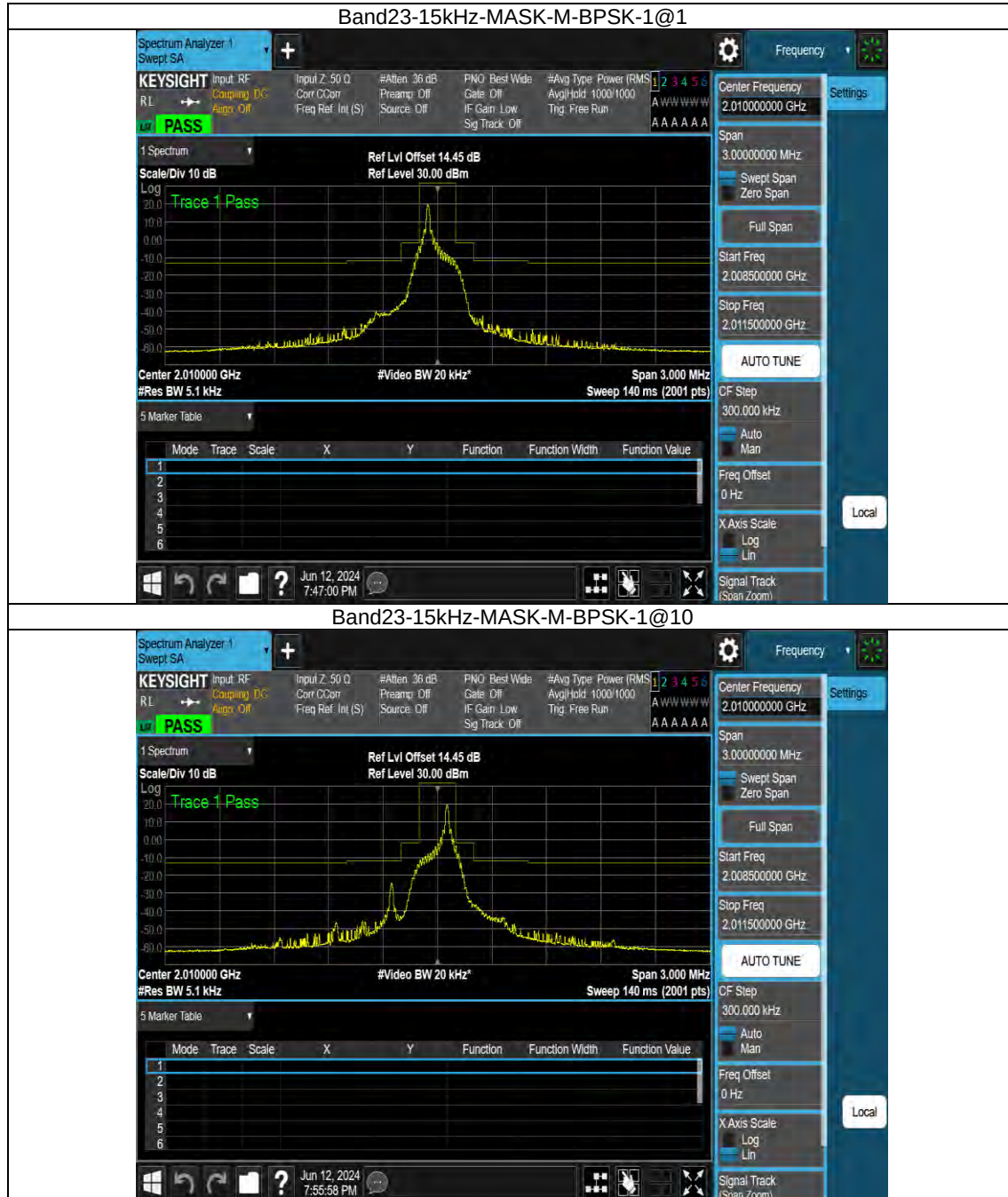
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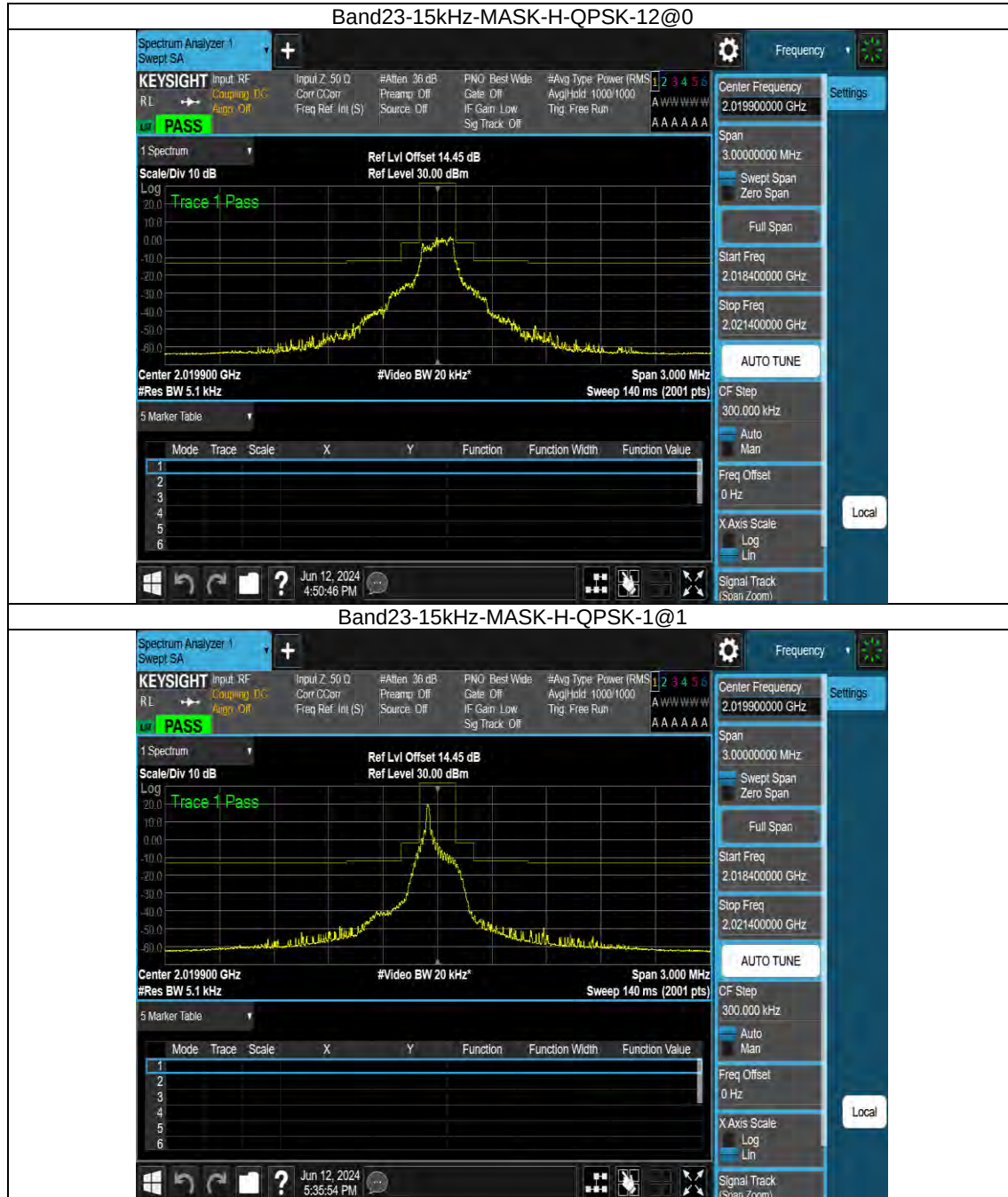
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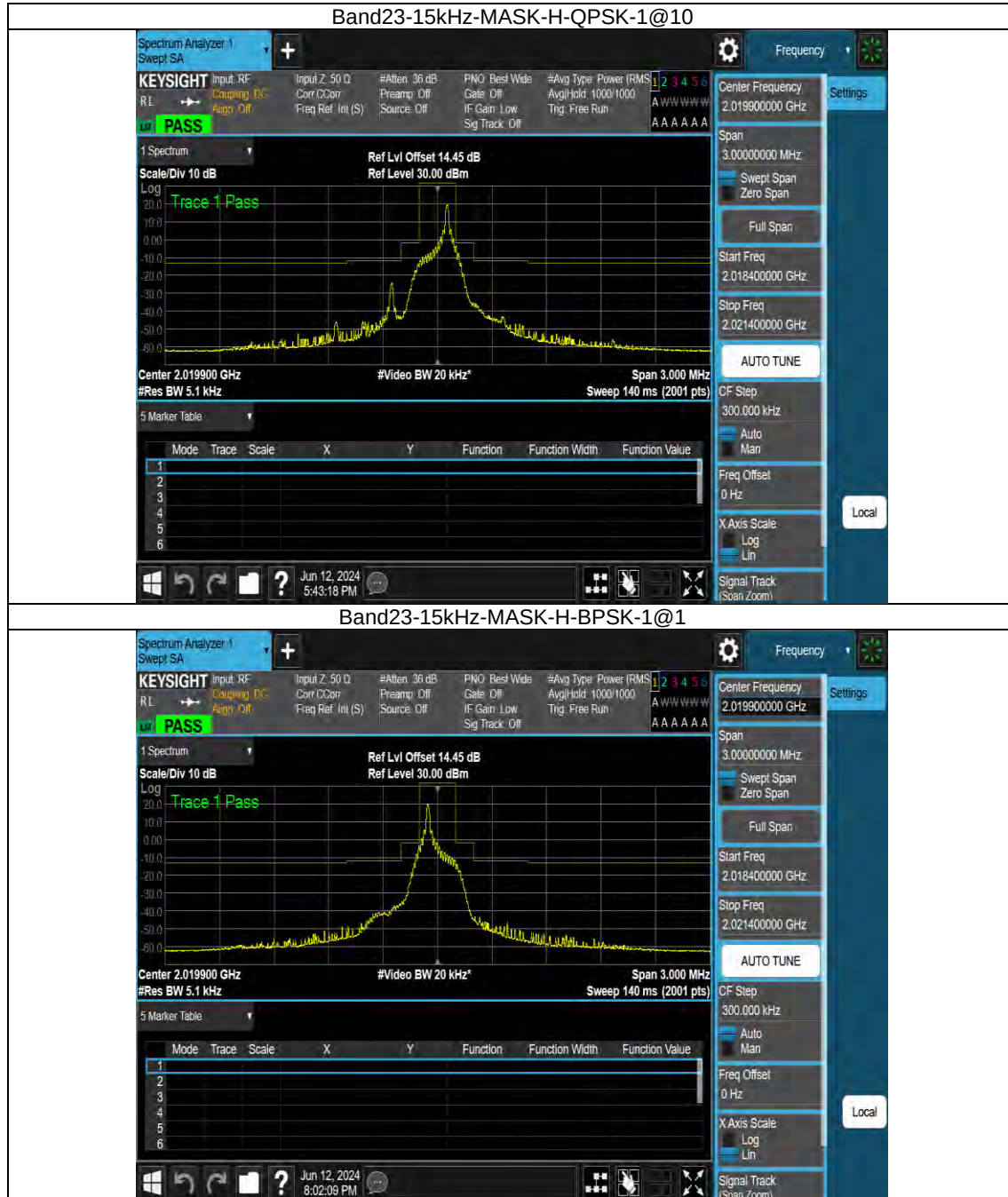
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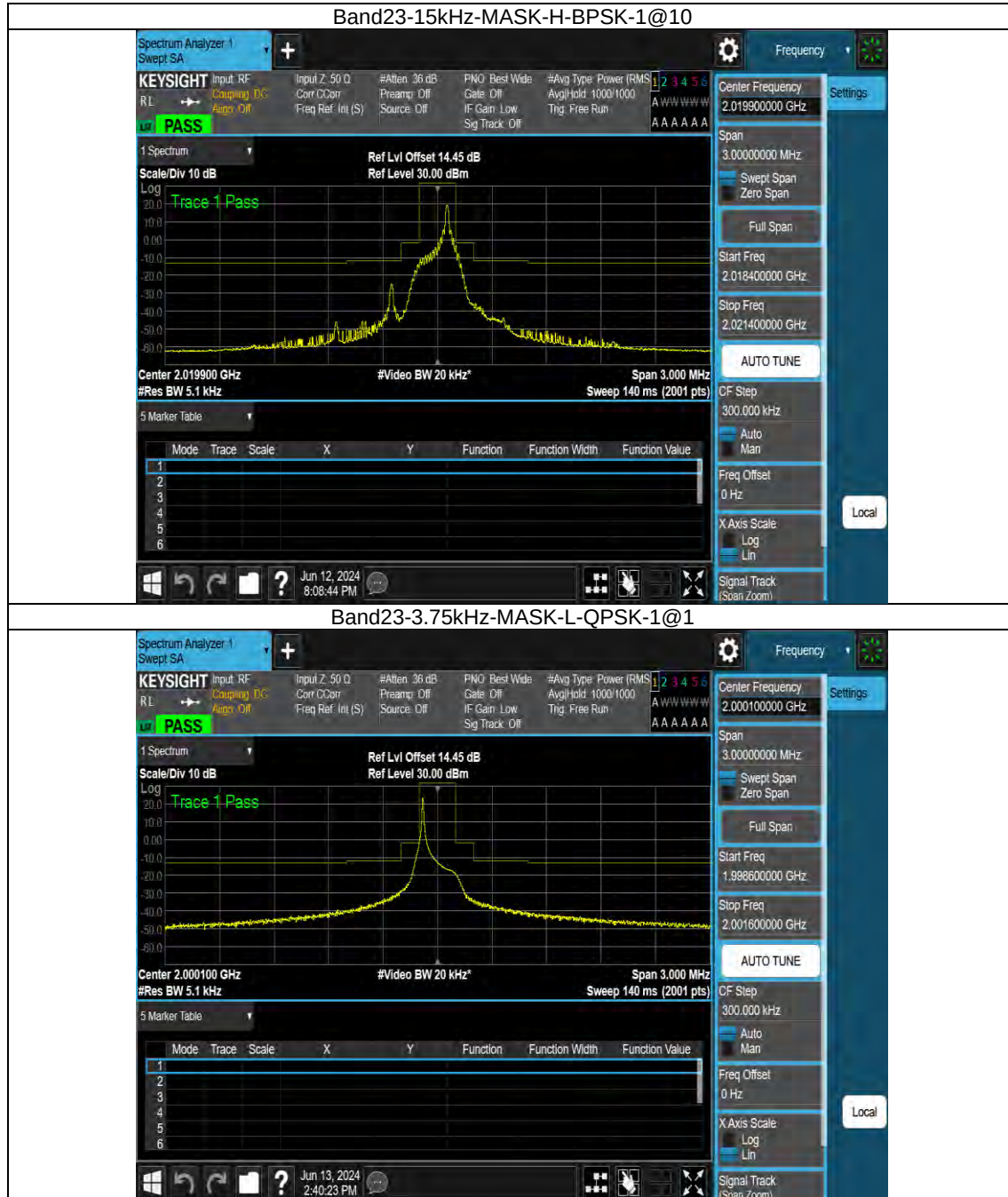
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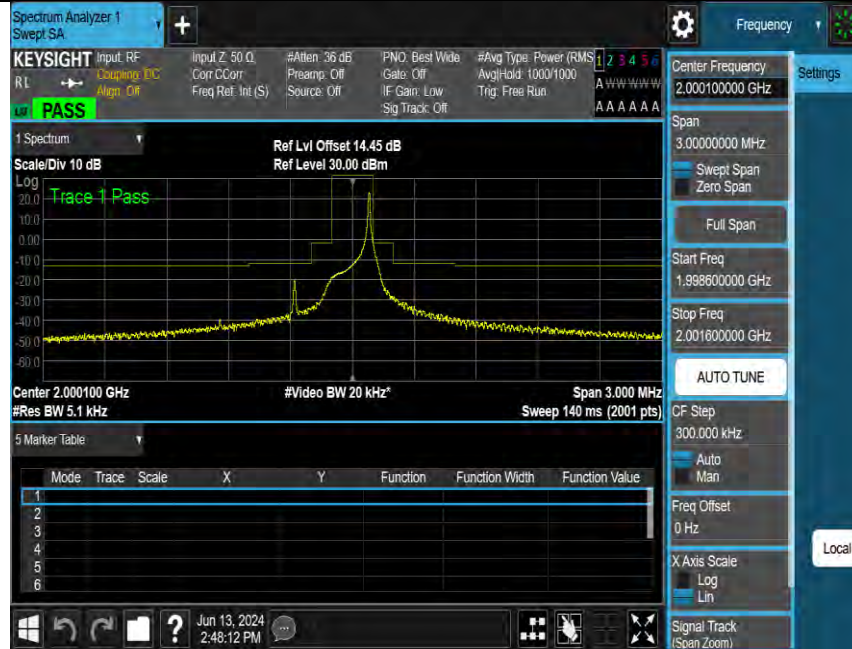
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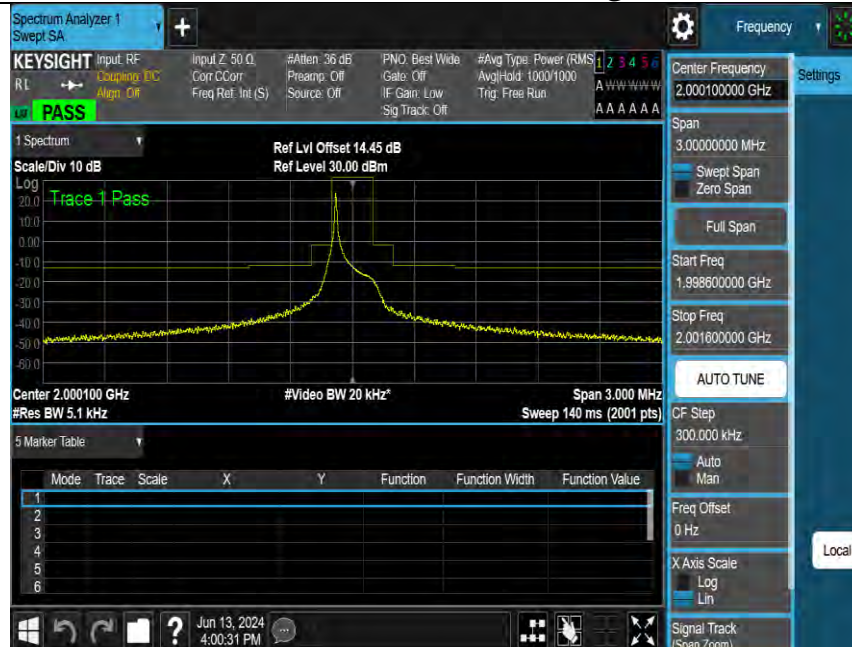
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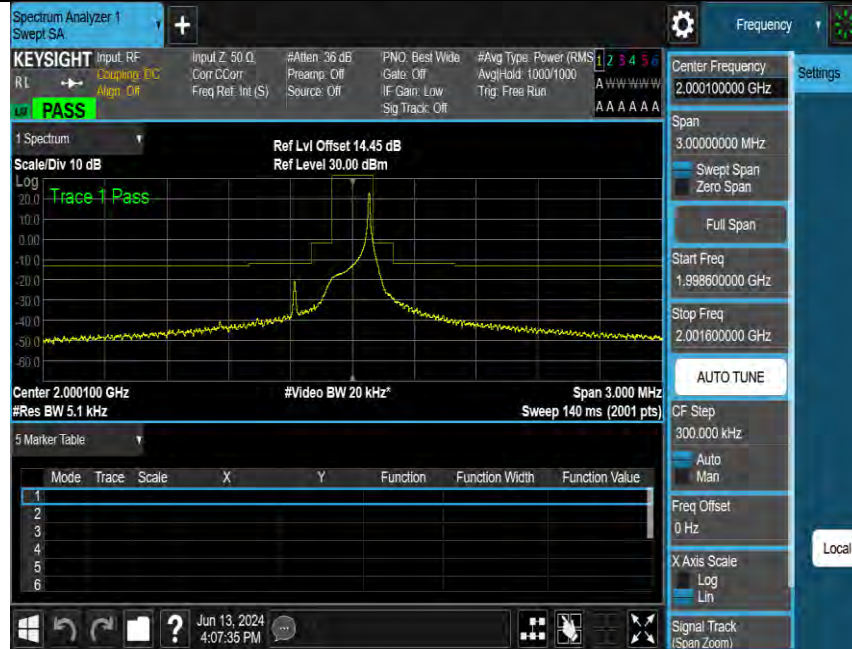
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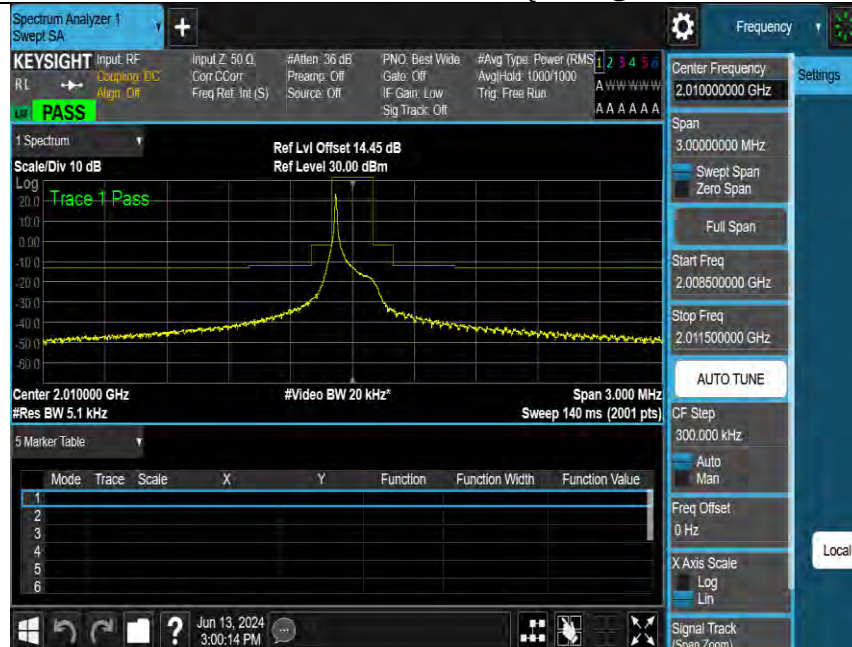
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Page: 26 of 61

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Band23-3.75kHz-MASK-M-QPSK-1@1



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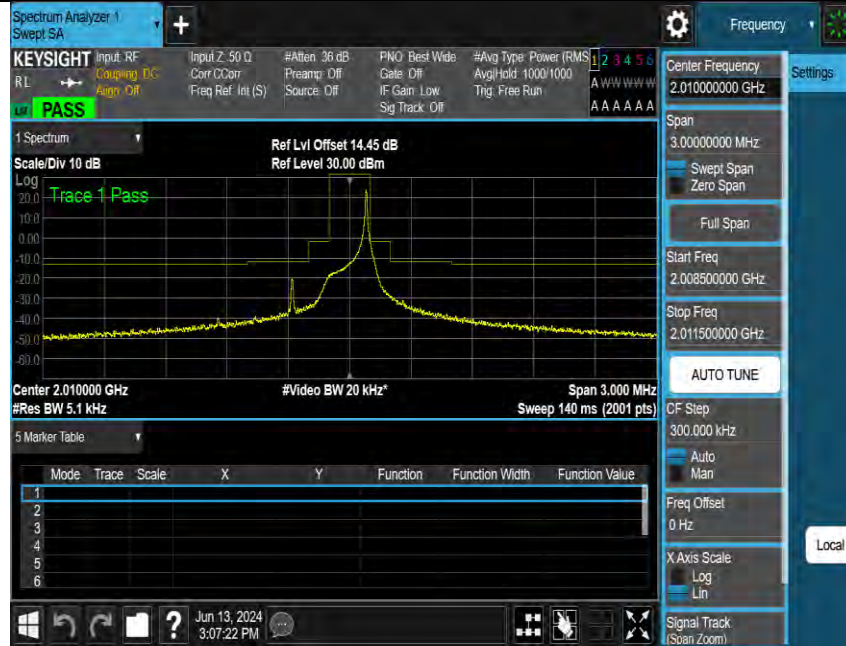
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Page: 27 of 61

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Band23-3.75kHz-MASK-M-BPSK-1@1



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Band23-3.75kHz-MASK-H-QPSK-1@1



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Page: 29 of 61

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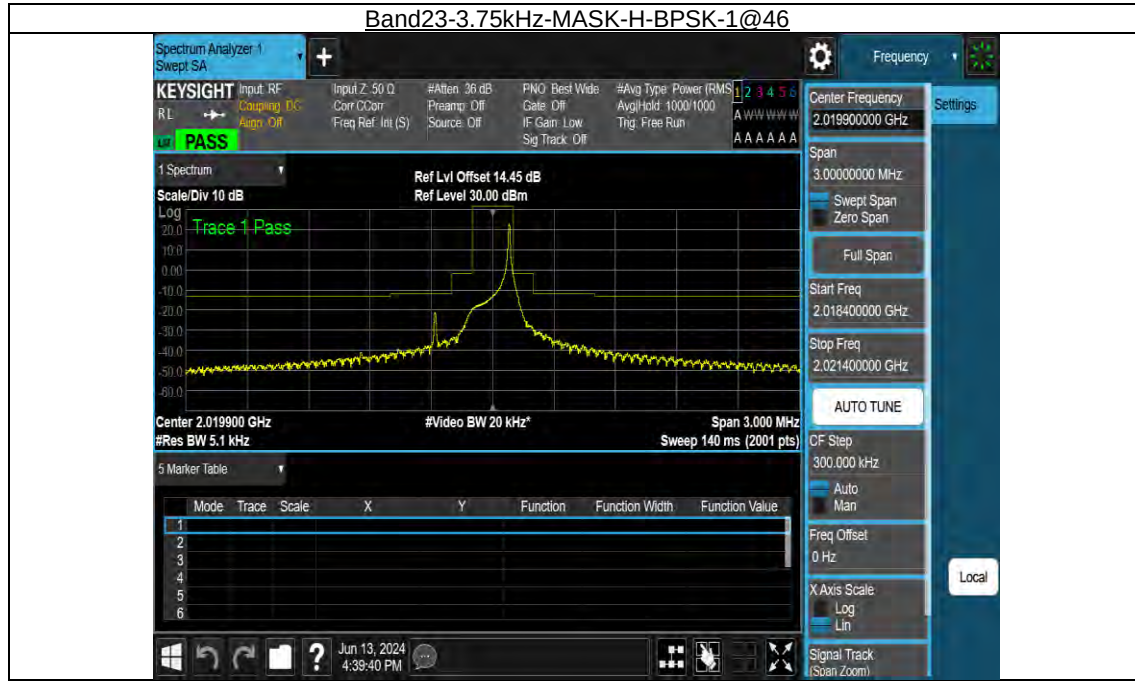
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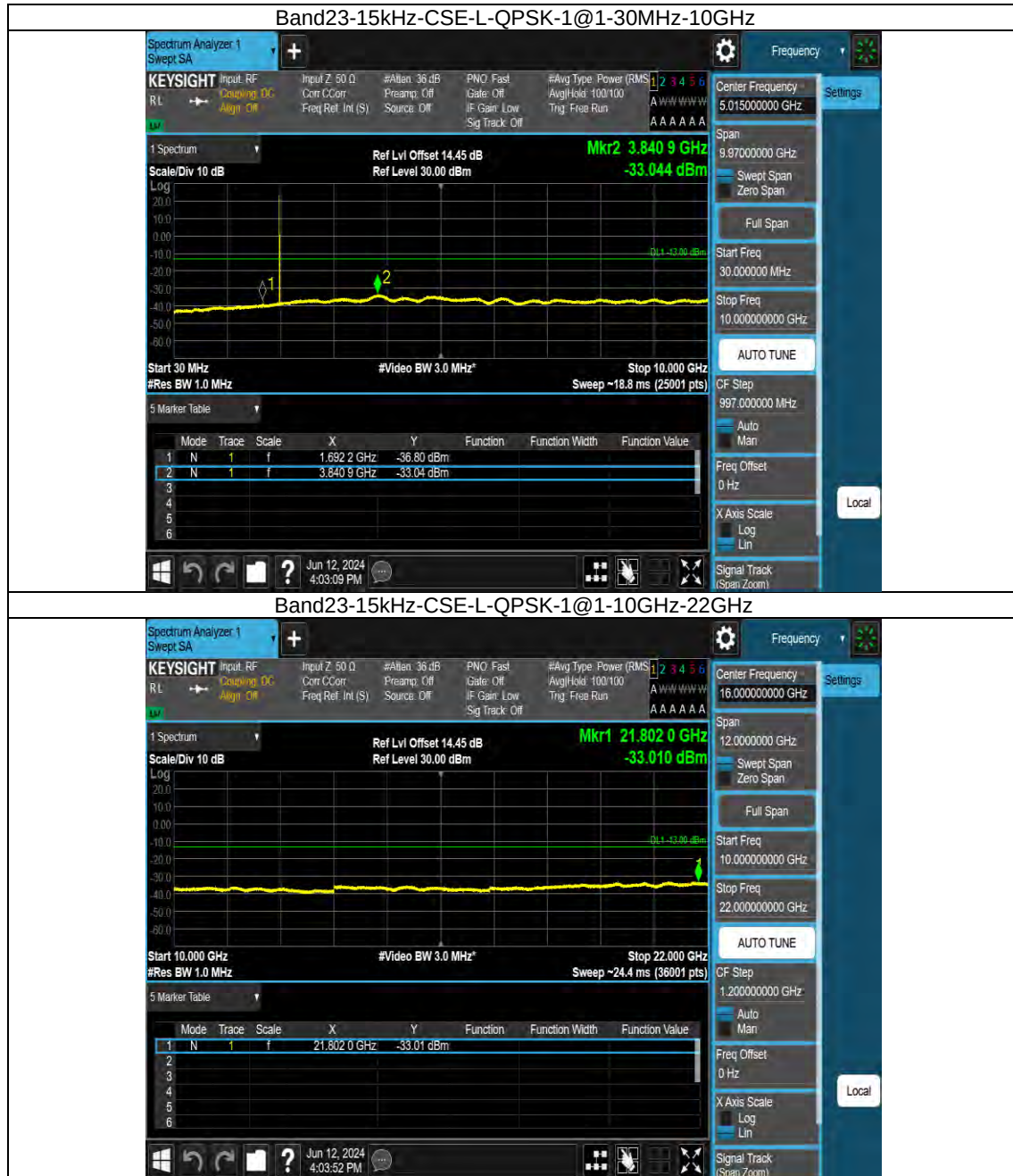
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Page: 31 of 61

Conducted spurious emissions test graph



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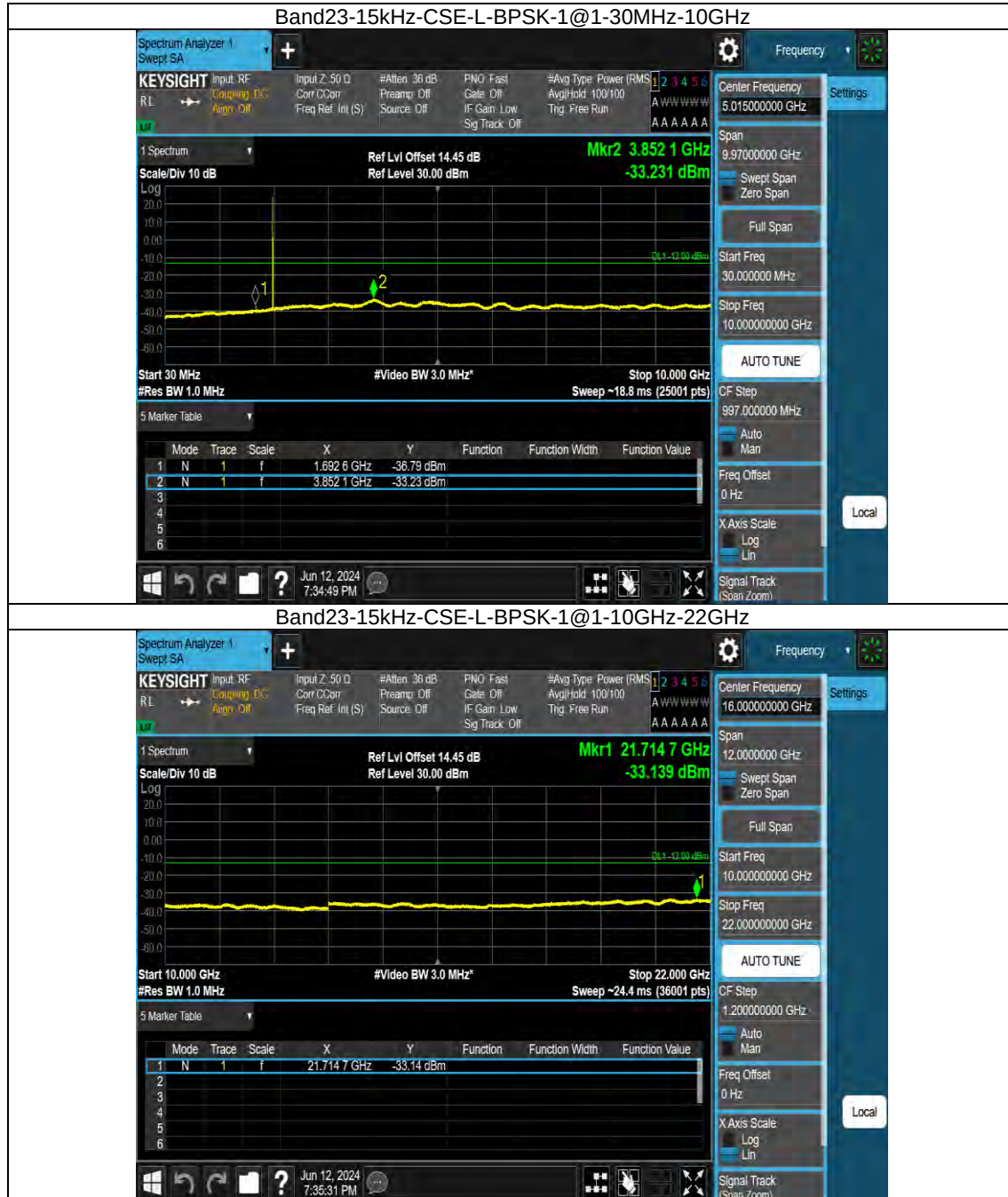
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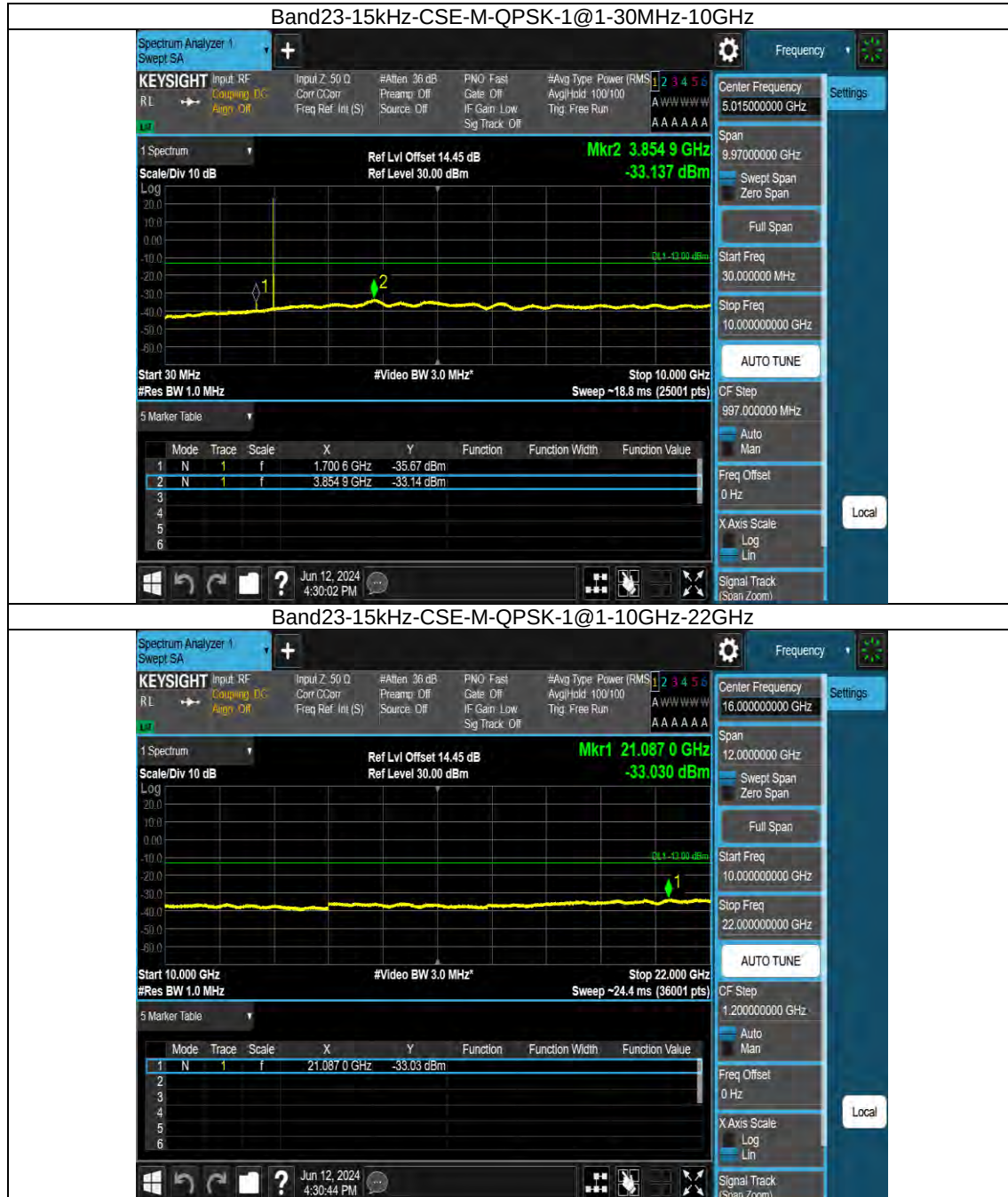
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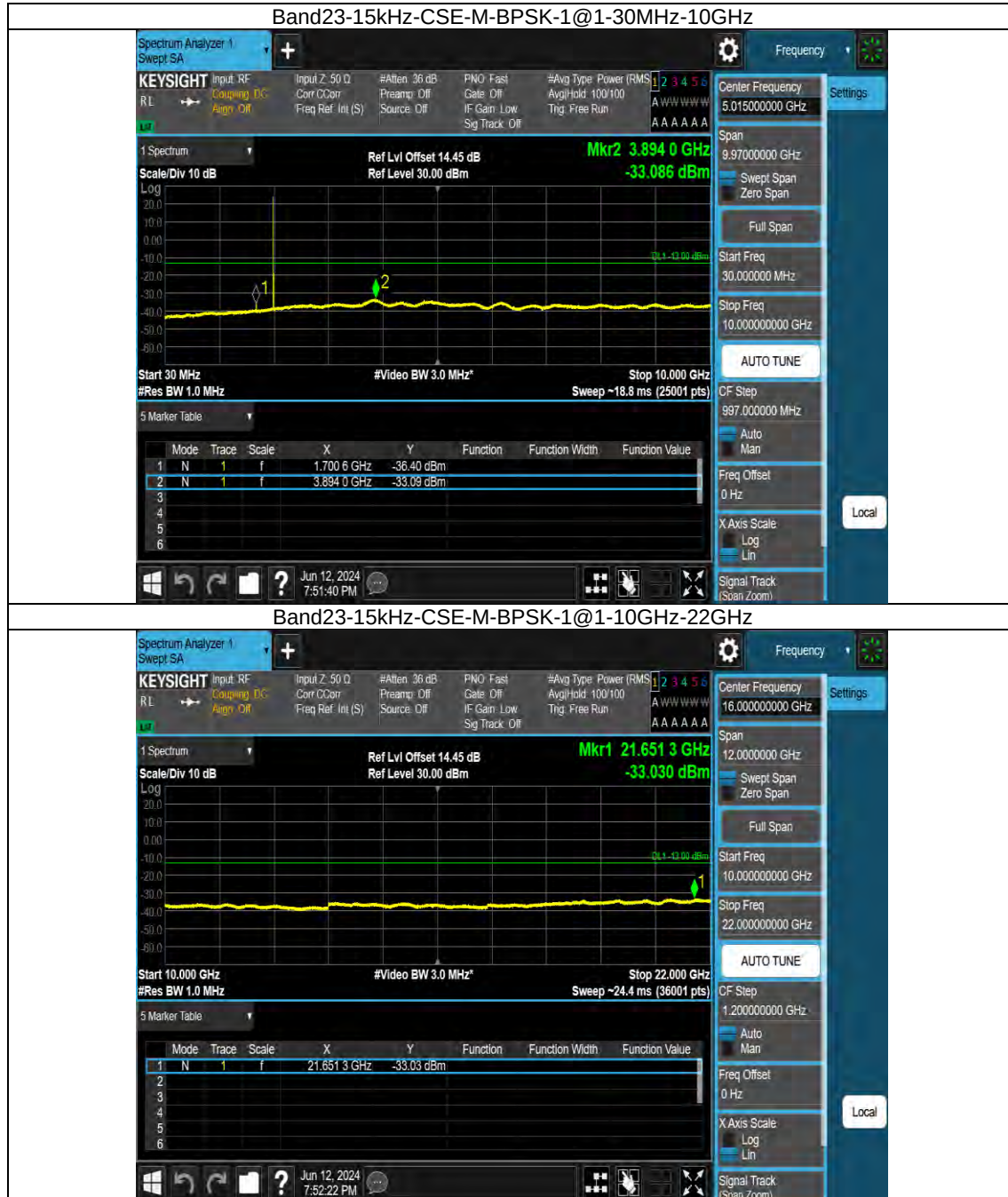
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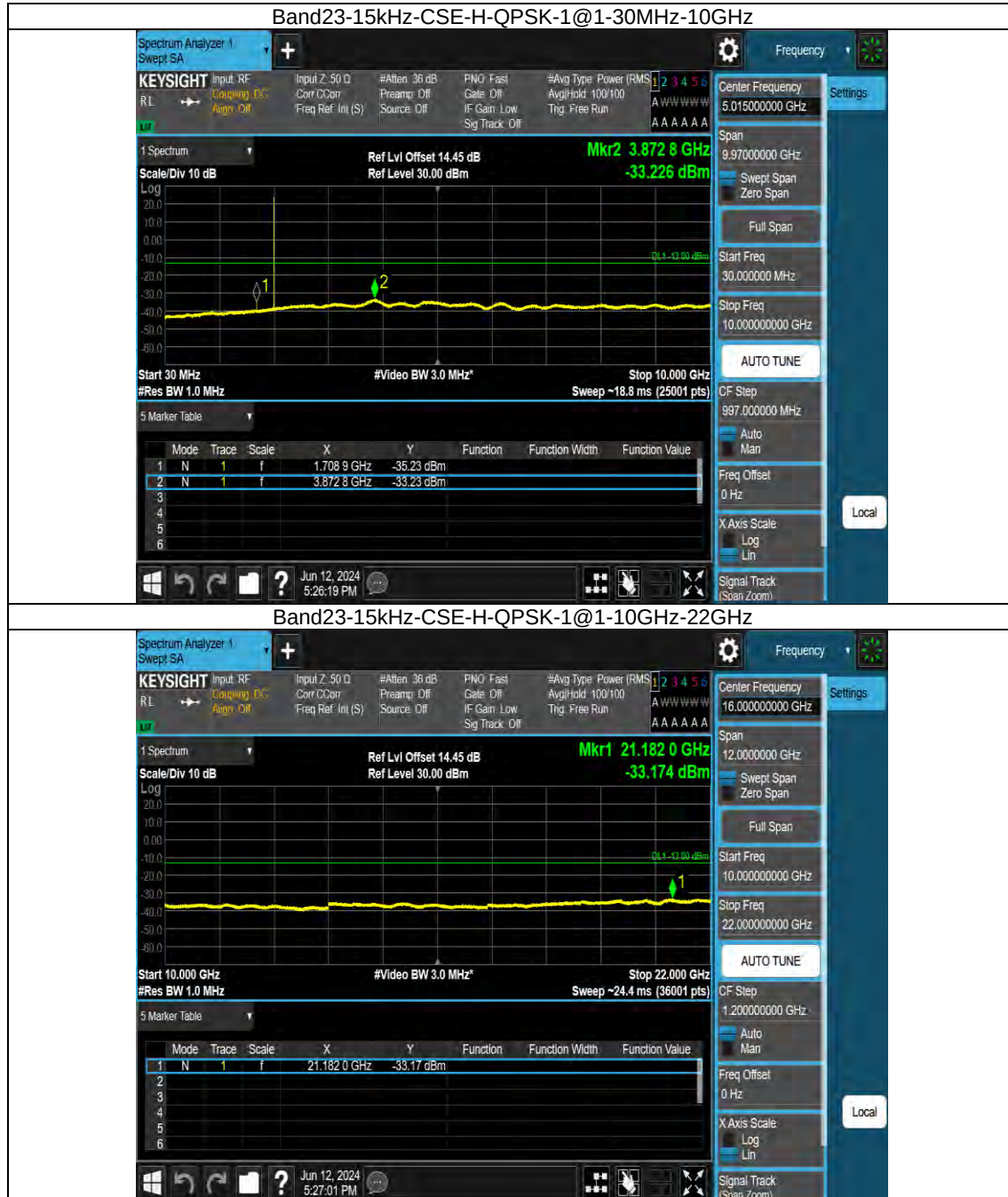
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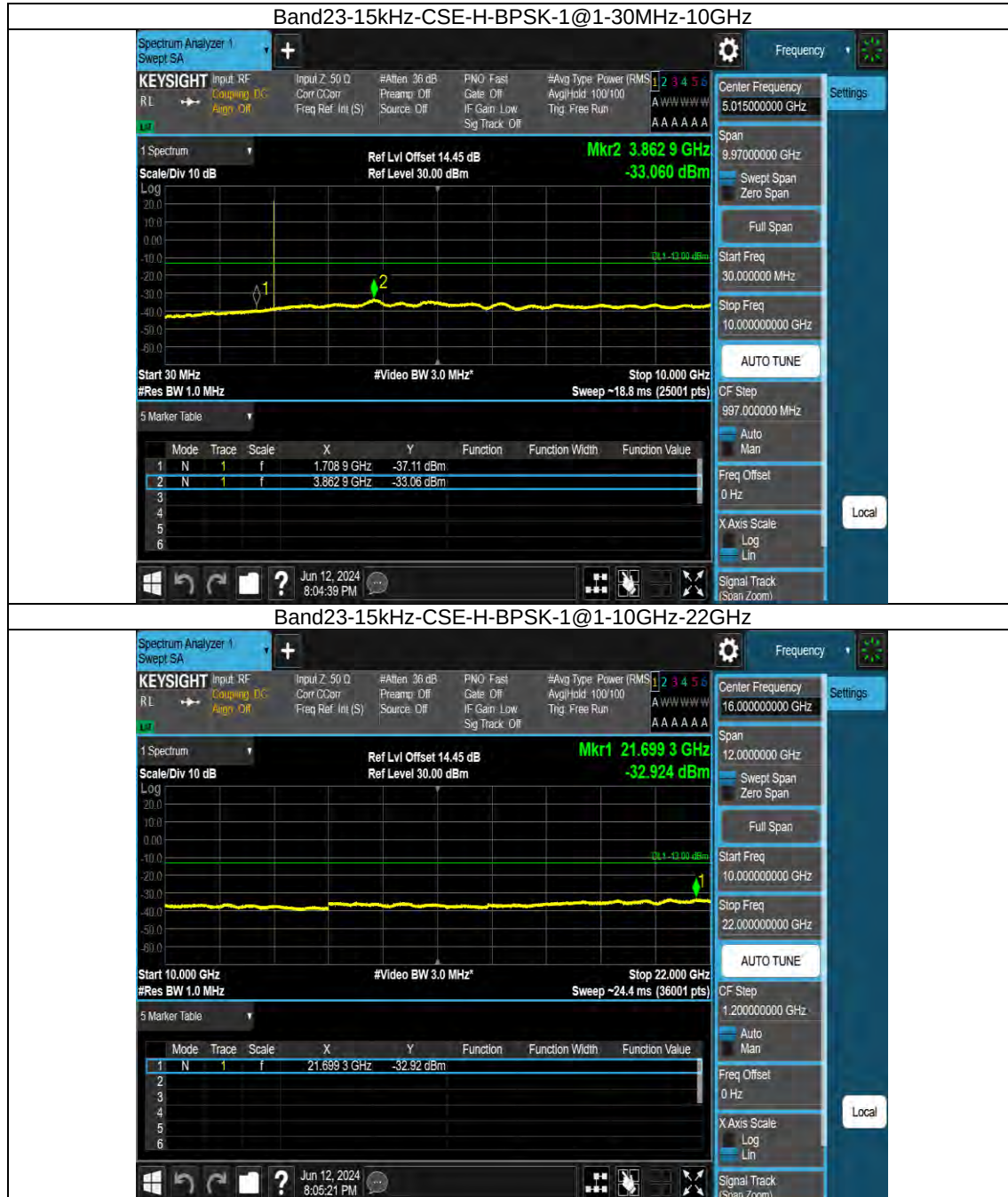
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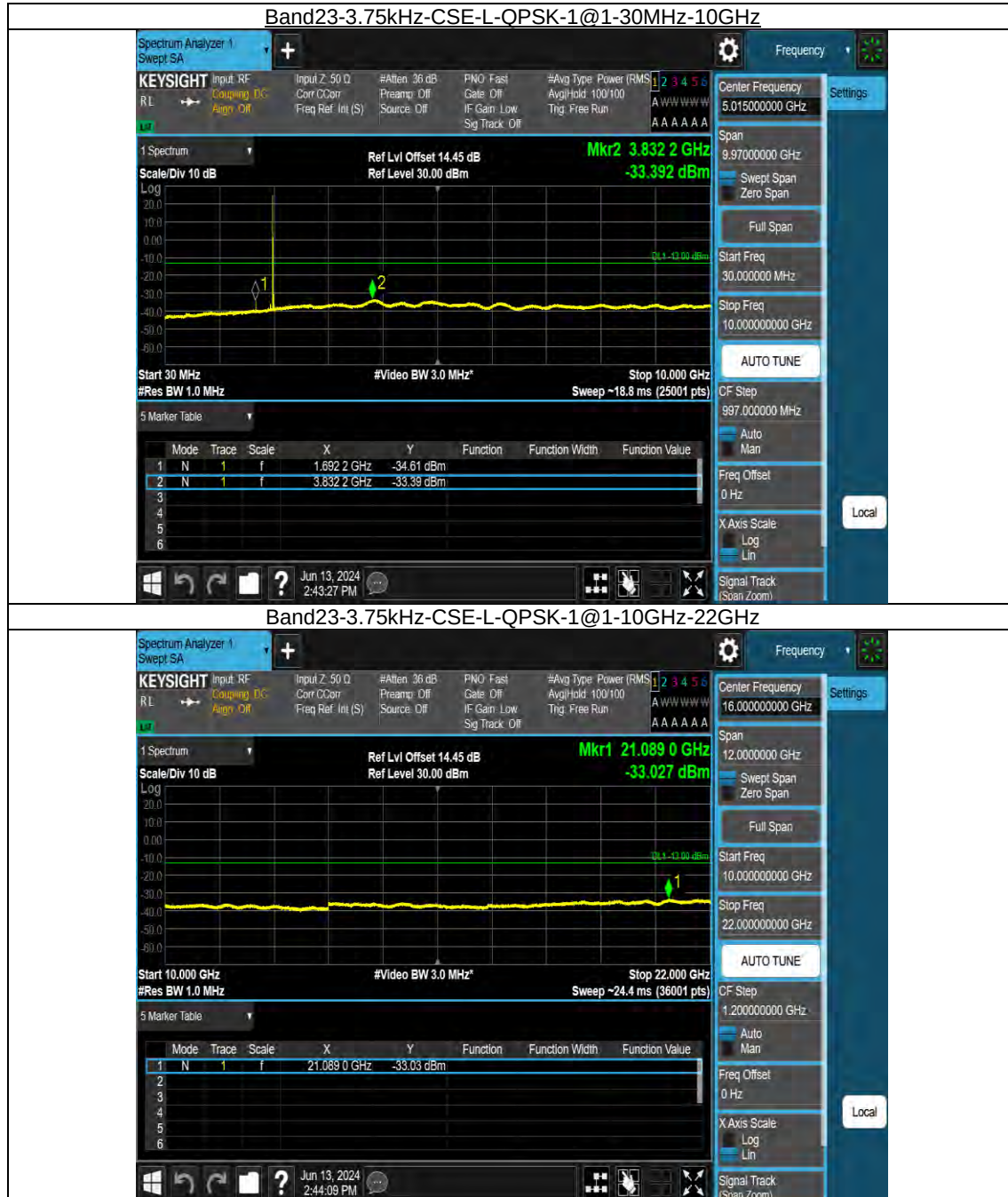
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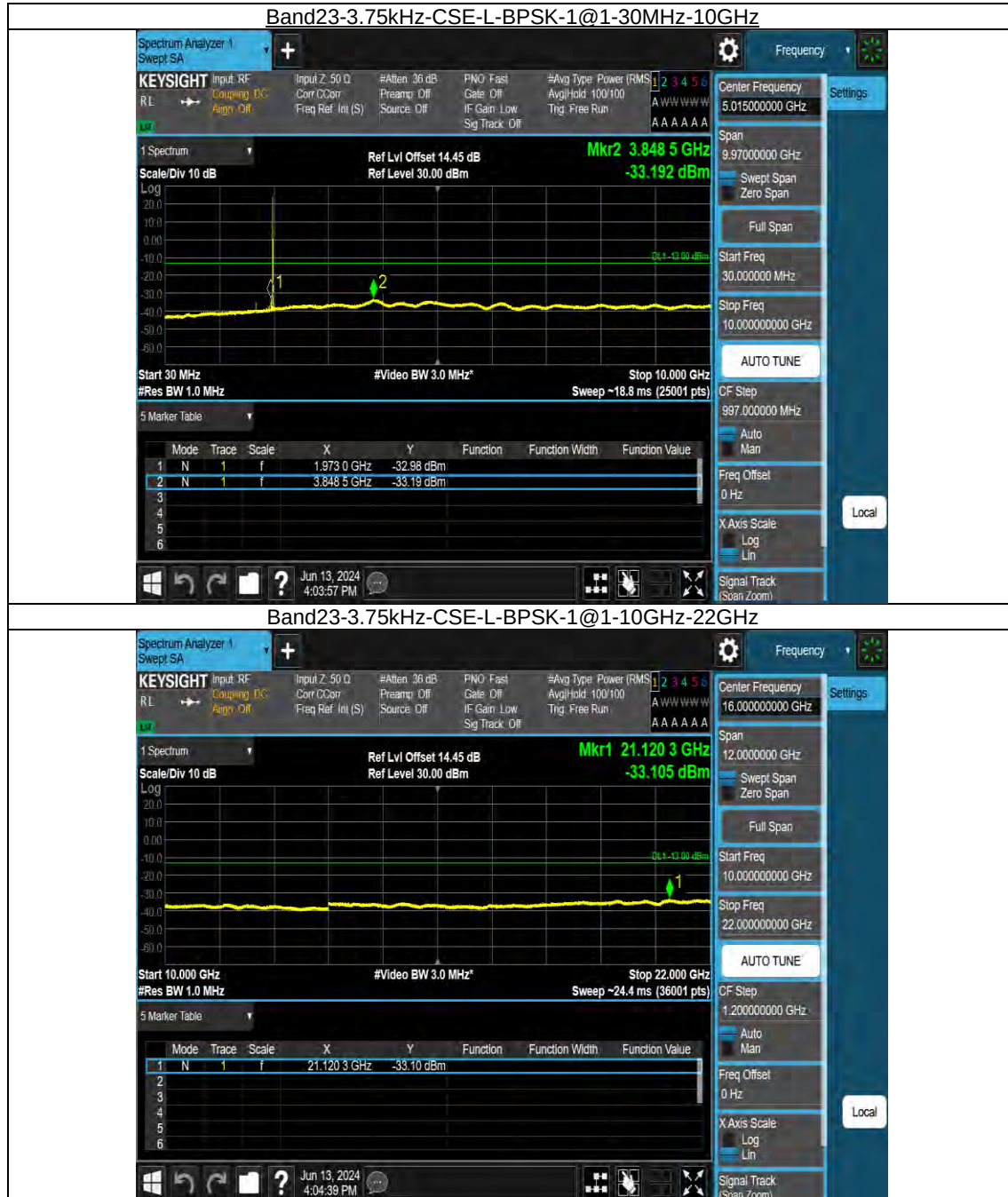
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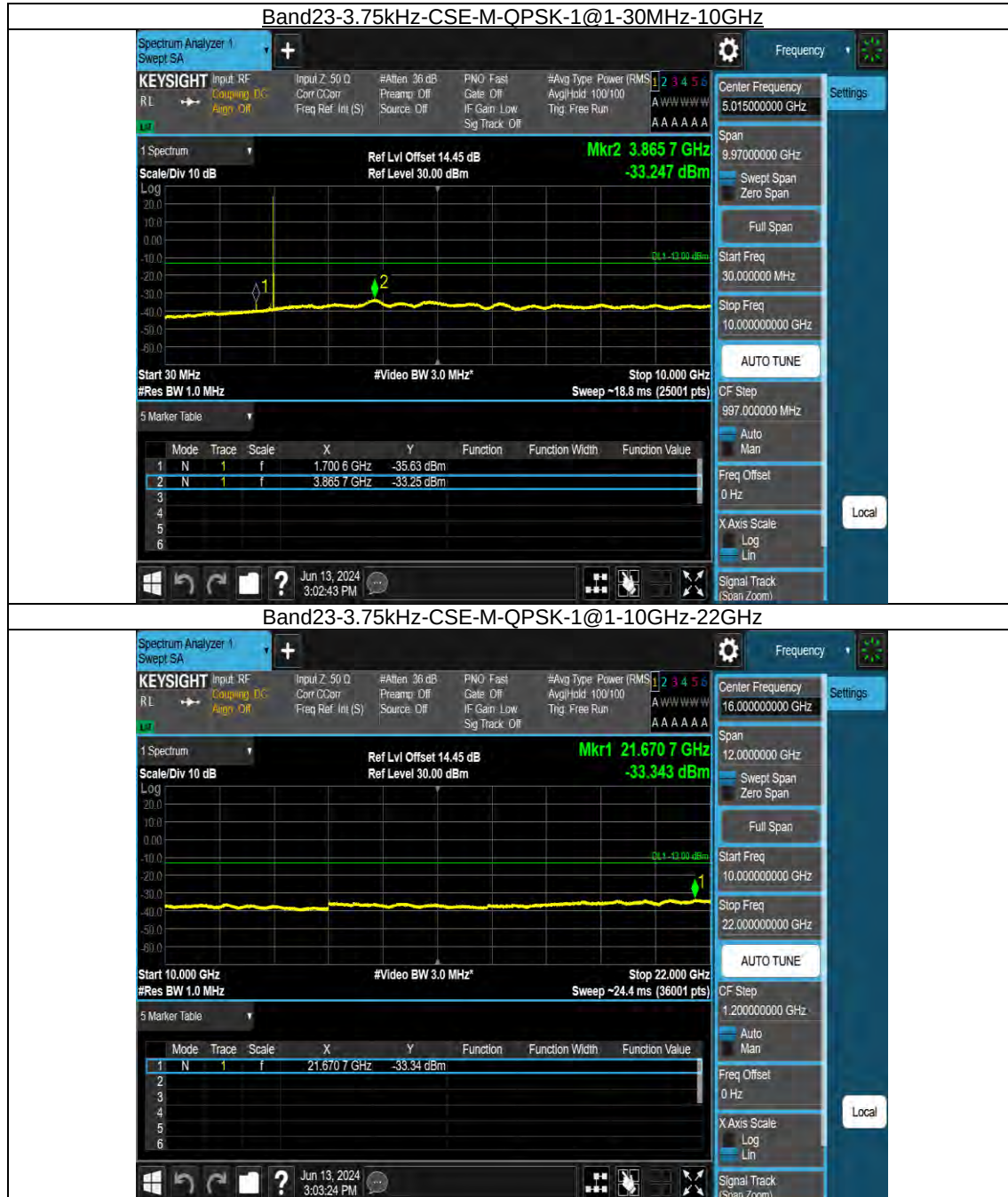


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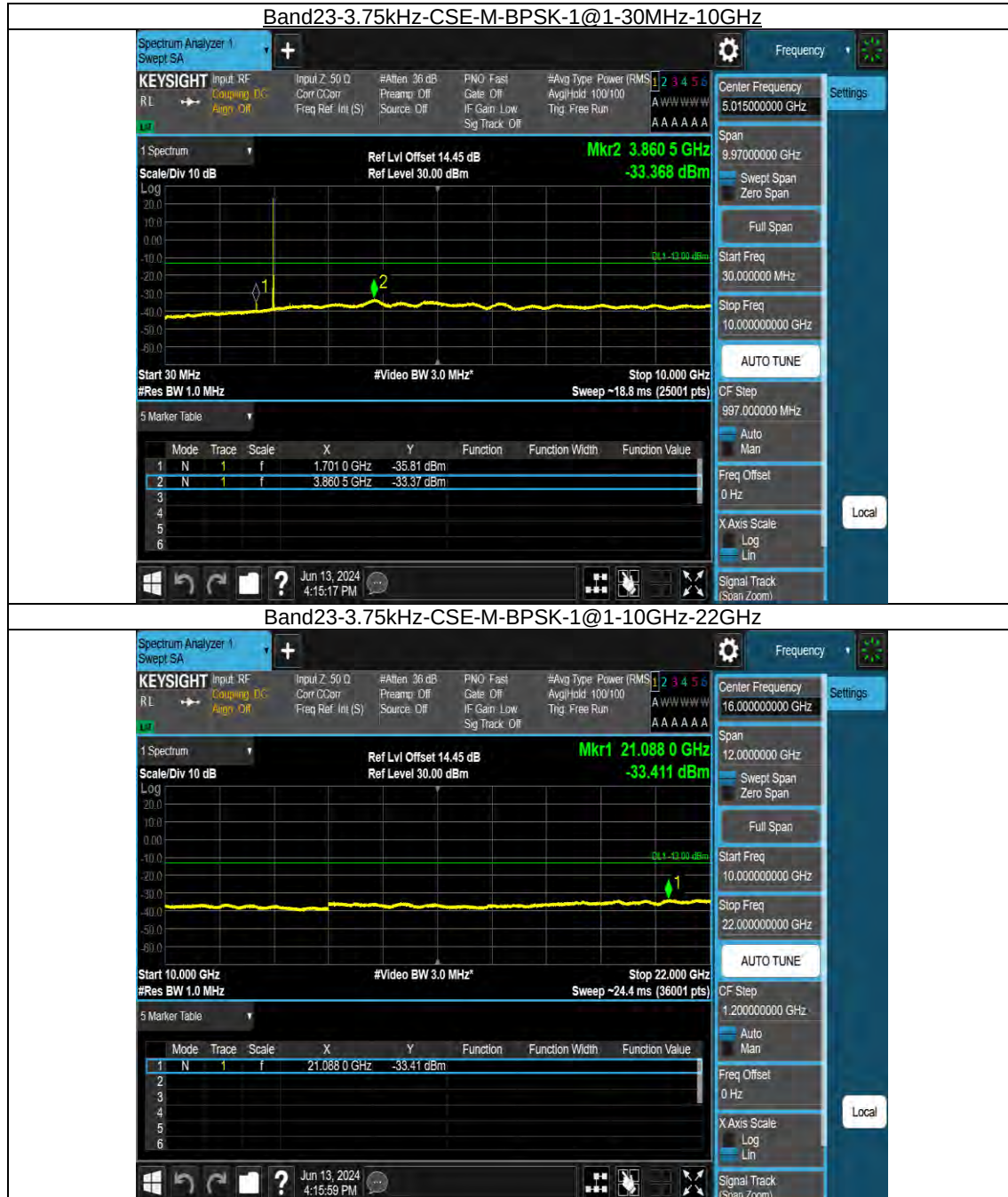
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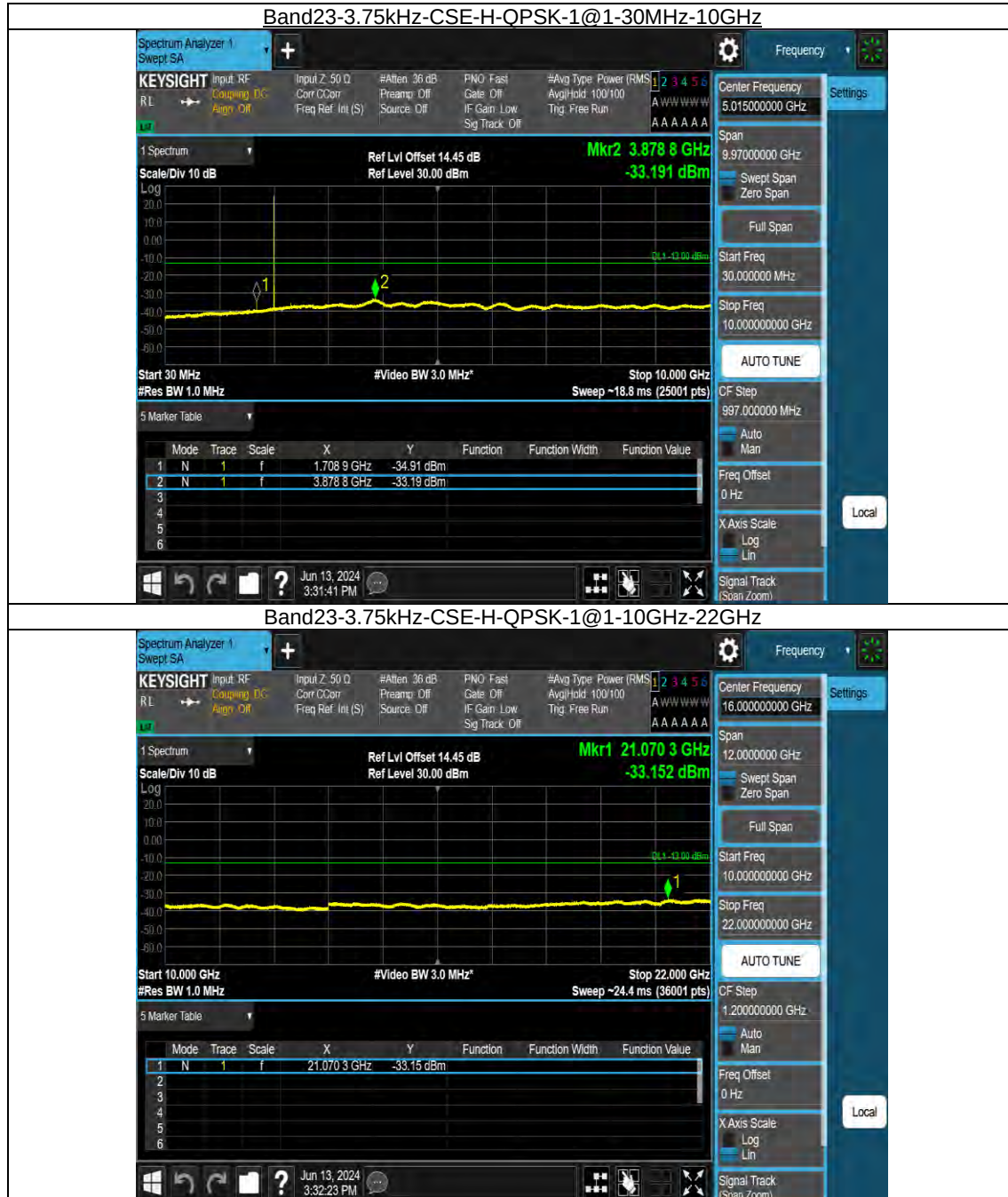
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Page: 41 of 61



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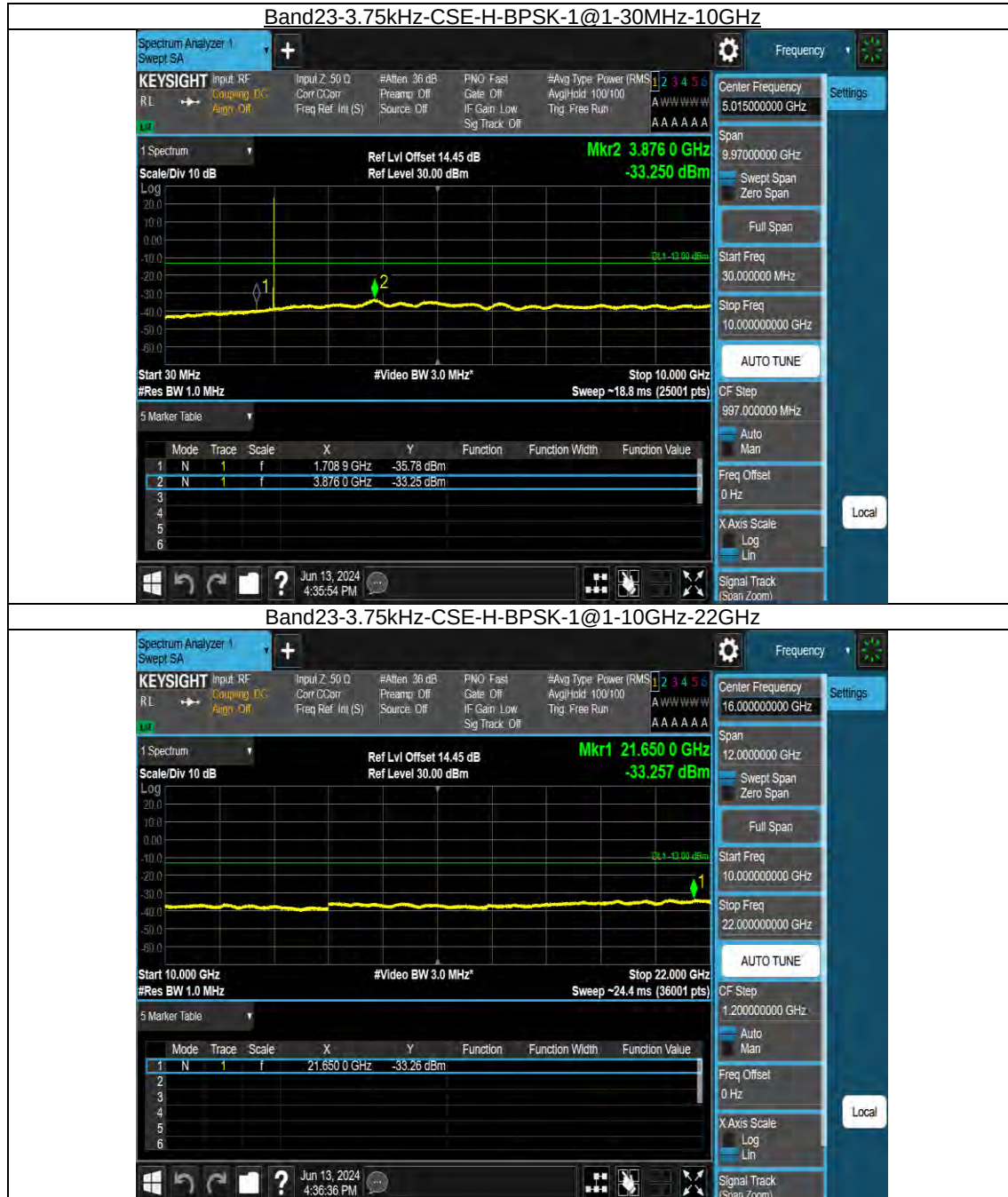
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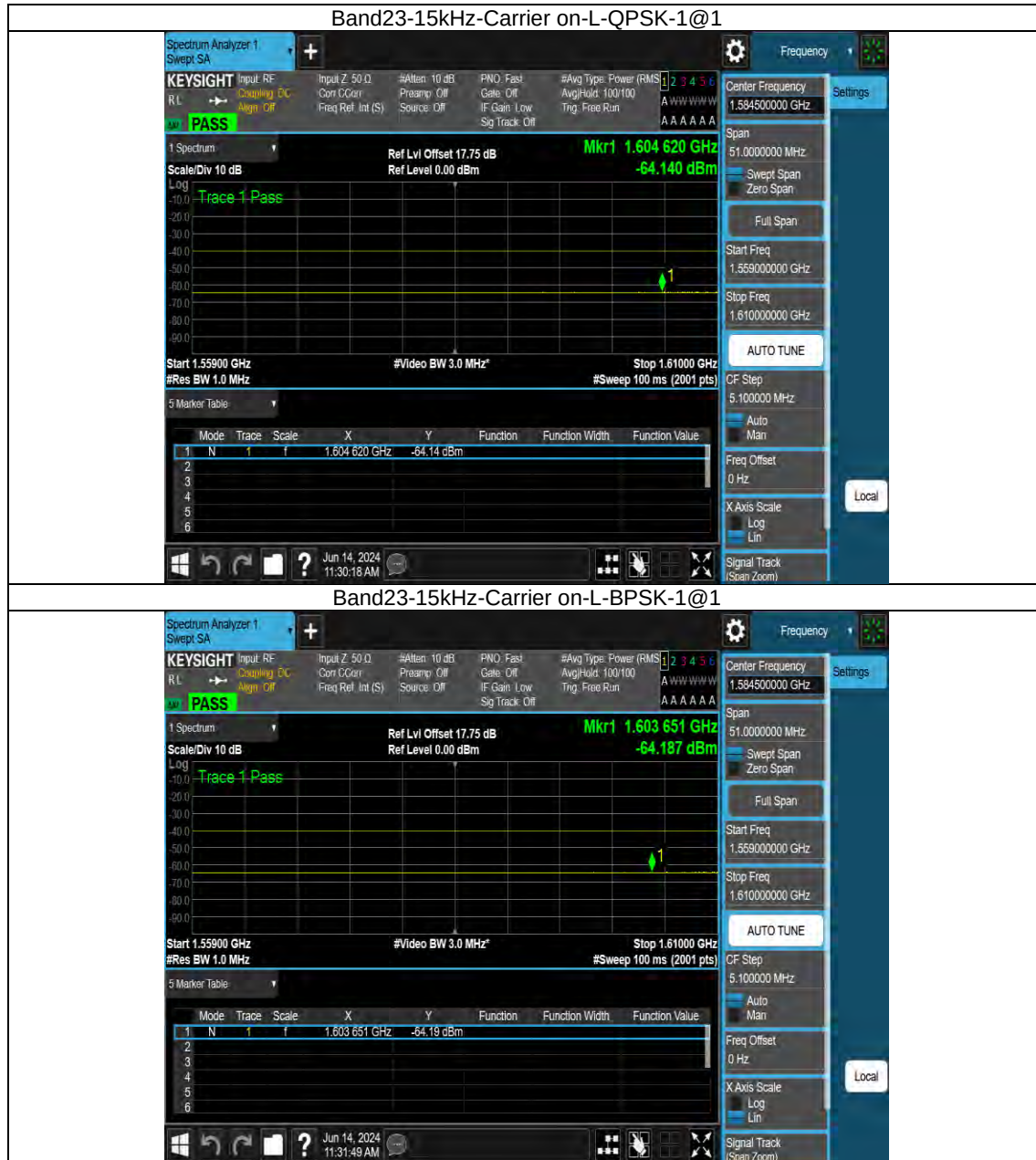
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Page: 43 of 61

Emission limits for protection of aeronautical service test graph



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Page: 44 of 61

Band23-15kHz-Carrier on-M-QPSK-1@1



Band23-15kHz-Carrier on-M-BPSK-1@1



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Page: 45 of 61

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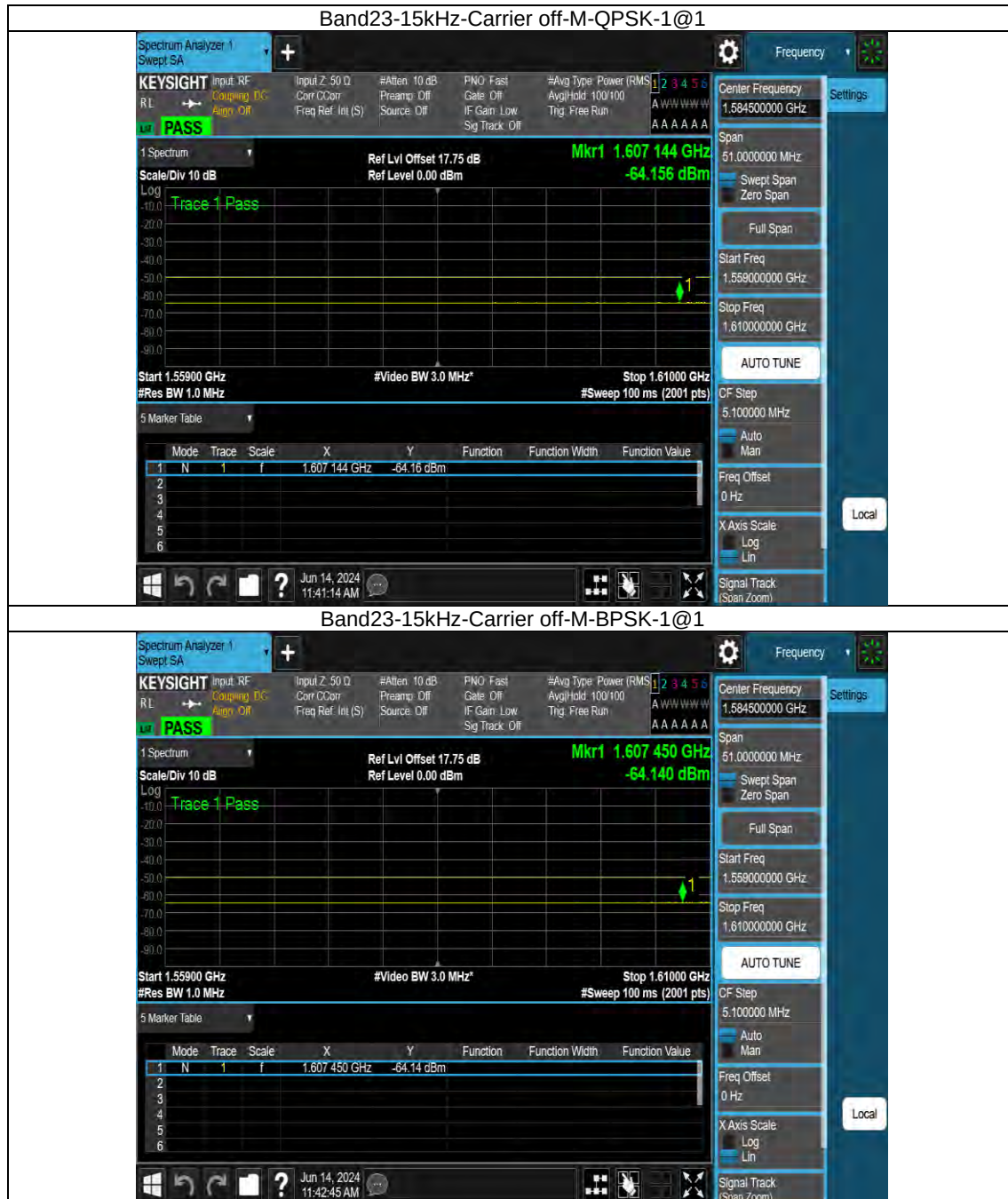


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Page: 48 of 61

Band23-15kHz-Carrier off-H-QPSK-1@1



Band23-15kHz-Carrier off-H-BPSK-1@1



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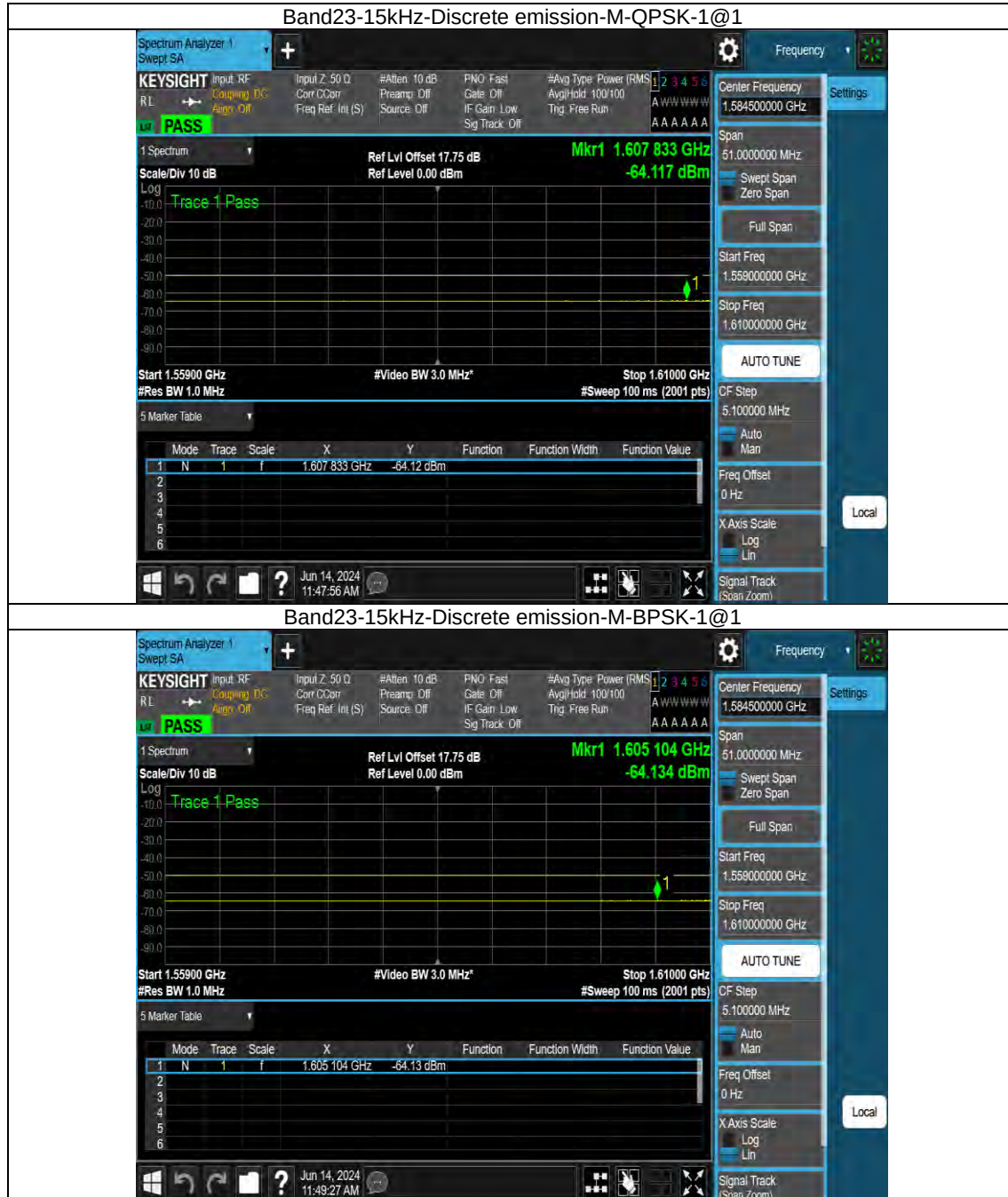


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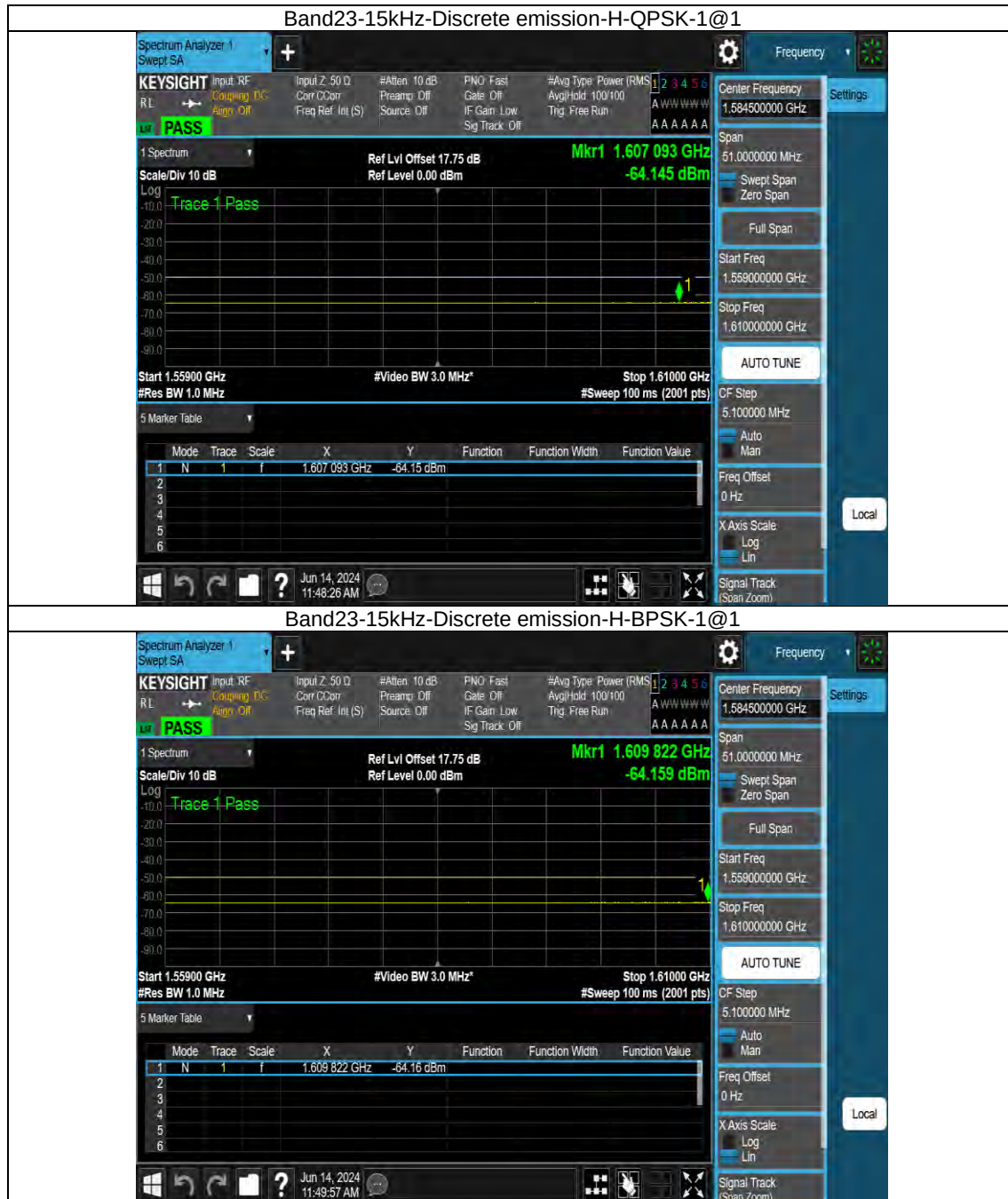
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Band23-3.75kHz-Carrier on-L-QPSK-1@1



Band23-3.75kHz-Carrier on-L-BPSK-1@1



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Page: 55 of 61

Band23-3.75kHz-Carrier off-L-QPSK-1@1



Band23-3.75kHz-Carrier off-L-BPSK-1@1



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Page: 57 of 61



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Page: 58 of 61

Band23-3.75kHz-Discrete emission-L-QPSK-1@1



Band23-3.75kHz-Discrete emission-L-BPSK-1@1



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Page: 59 of 61

Band23-3.75kHz-Discrete emission-M-QPSK-1@1



Band23-3.75kHz-Discrete emission-M-BPSK-1@1



Band23-3.75kHz-Discrete emission-H-QPSK-1@1



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Page: 61 of 61

Frequency stability

Test Conditions		Band 23 (QPSK) / Middle Channel	Limit
Temperature(°C)	Voltage (V)	Deviation (ppm)	Result
50	NV	0.0006	Pass
40	NV	0.0014	
30	NV	0.0012	
20(Ref.)	NV	0.0011	
10	NV	0.0014	
0	NV	0.0012	
-10	NV	0.0007	
-20	NV	0.0009	
-30	NV	0.0015	
20	HV	0.0025	
20	NV	0.0021	
20	LV	0.0020	

- End of the Appendix -



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