

Appendix E: Conducted Spurious Emission

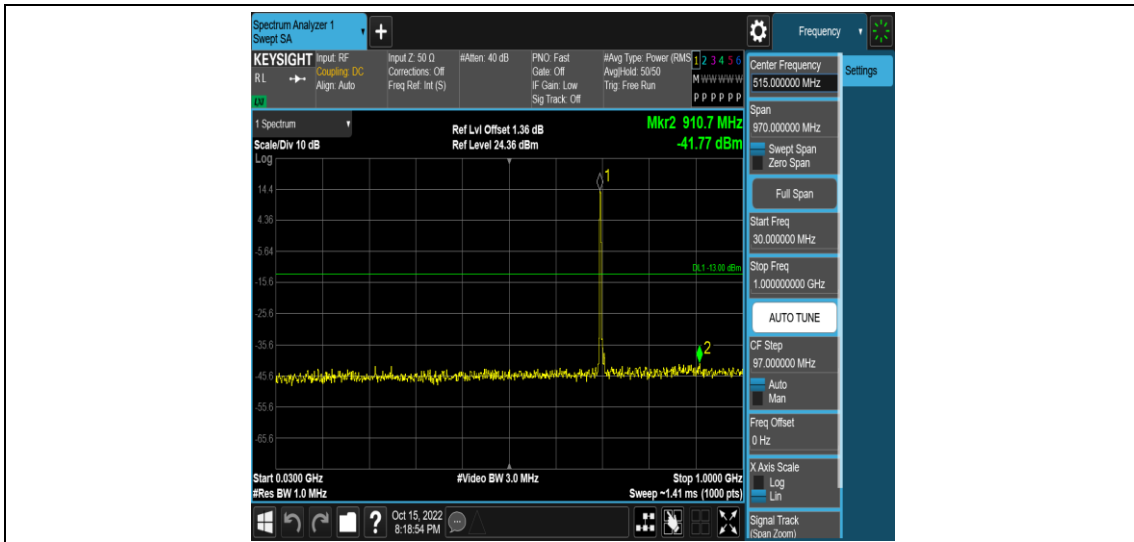
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	PASS

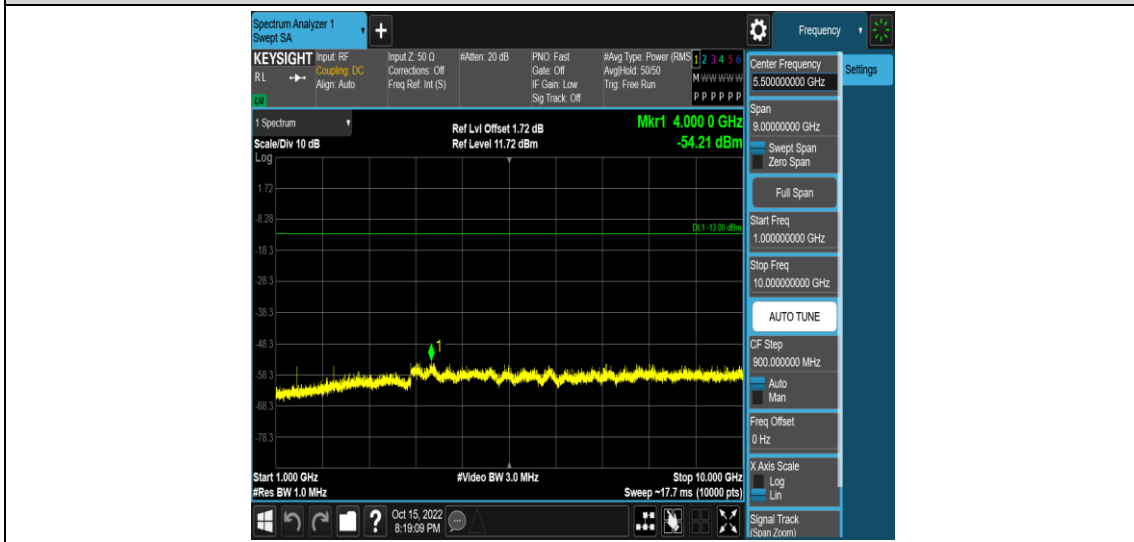
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~10000MHz	PASS

Test Graphs





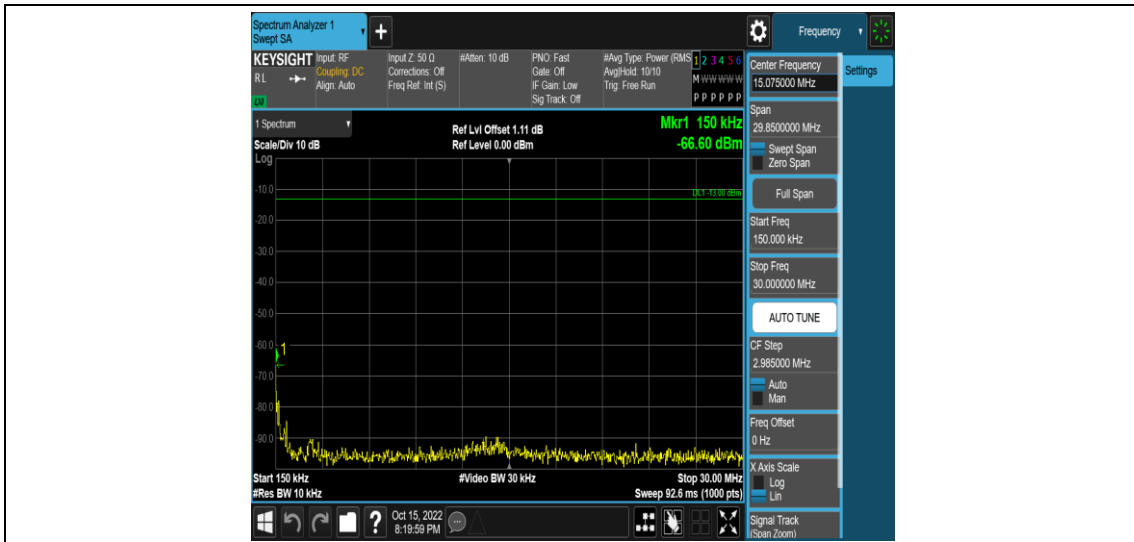
Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz



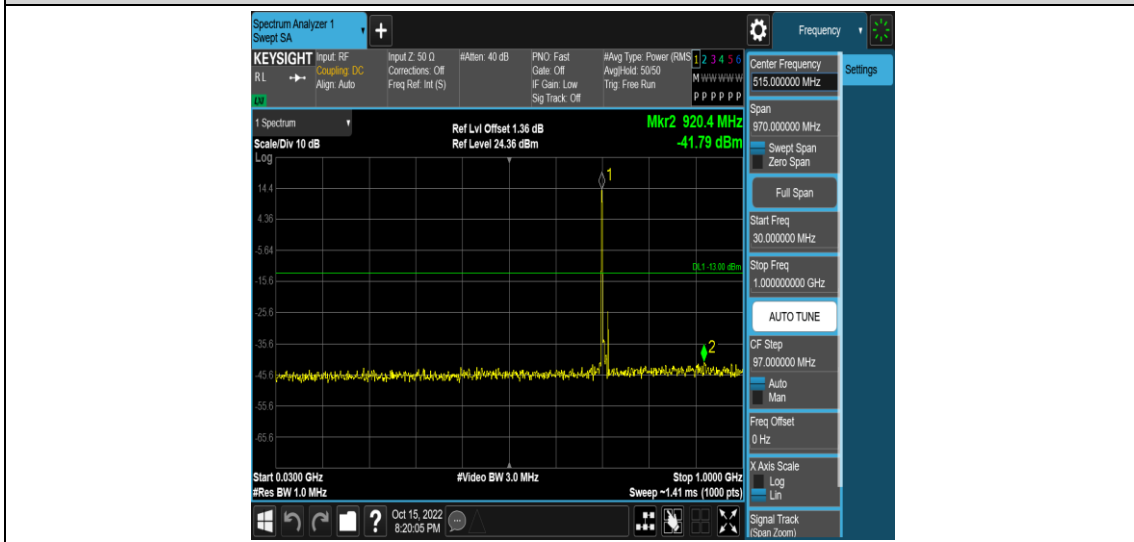
Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



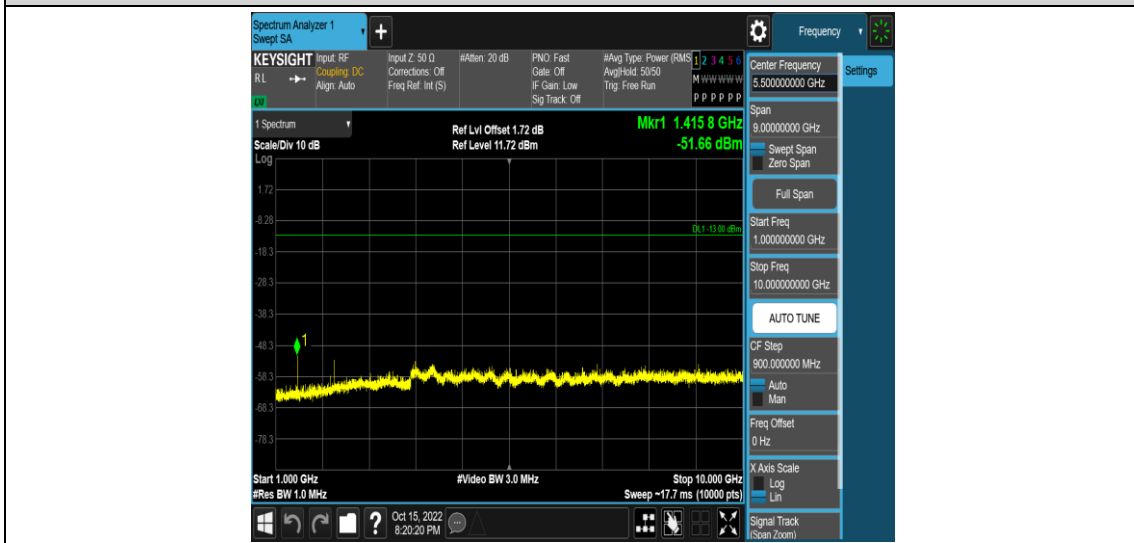
Band17-5MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



Band17-5MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



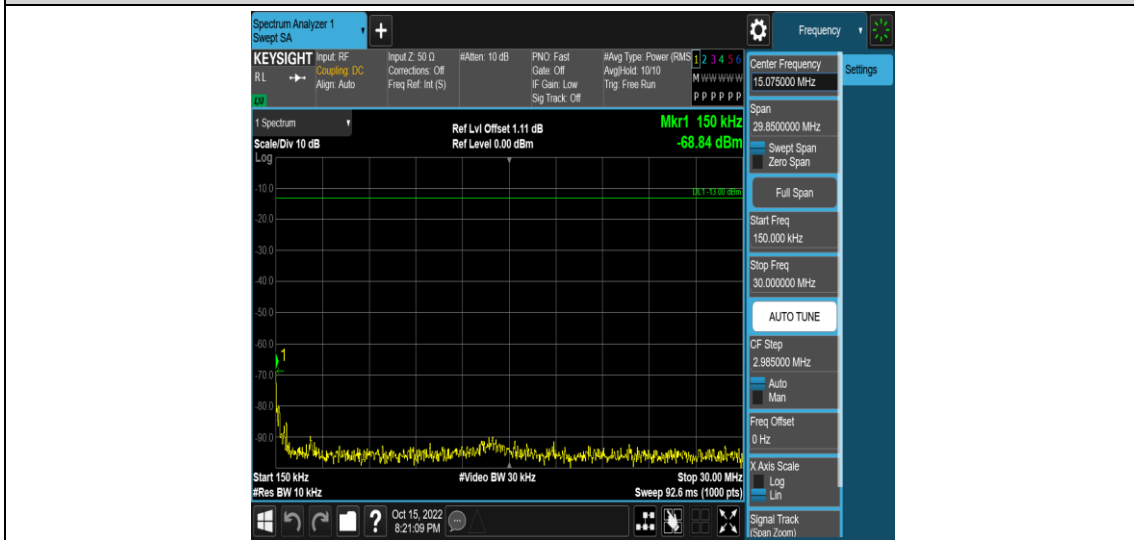
Band17-5MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



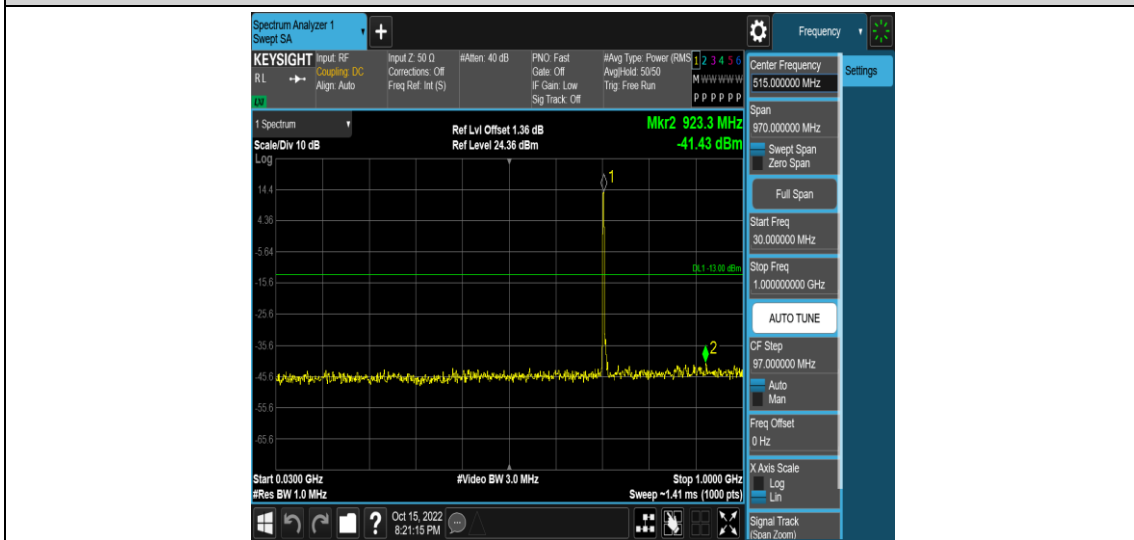
Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz



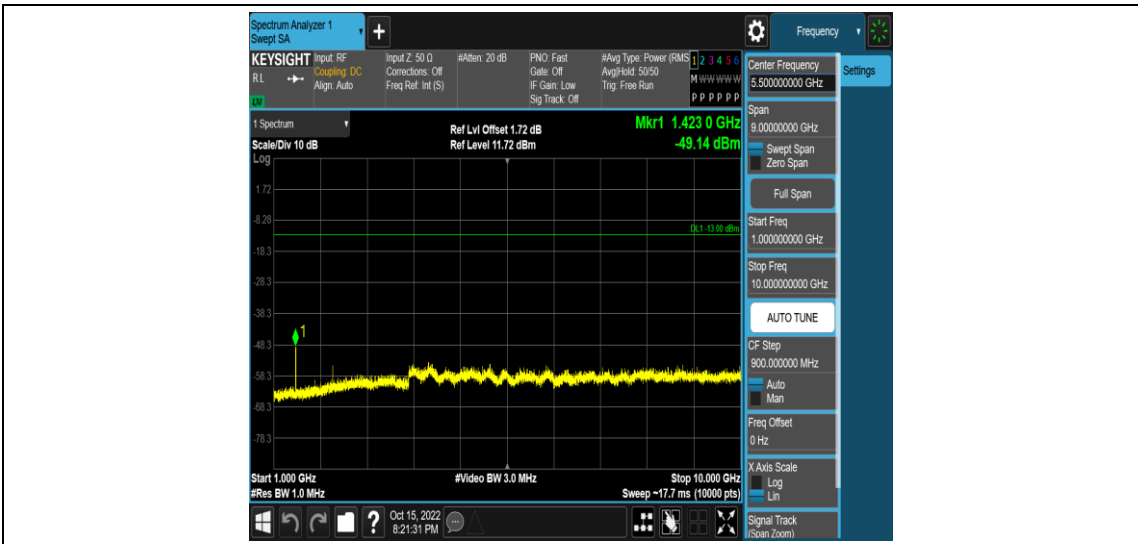
Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz



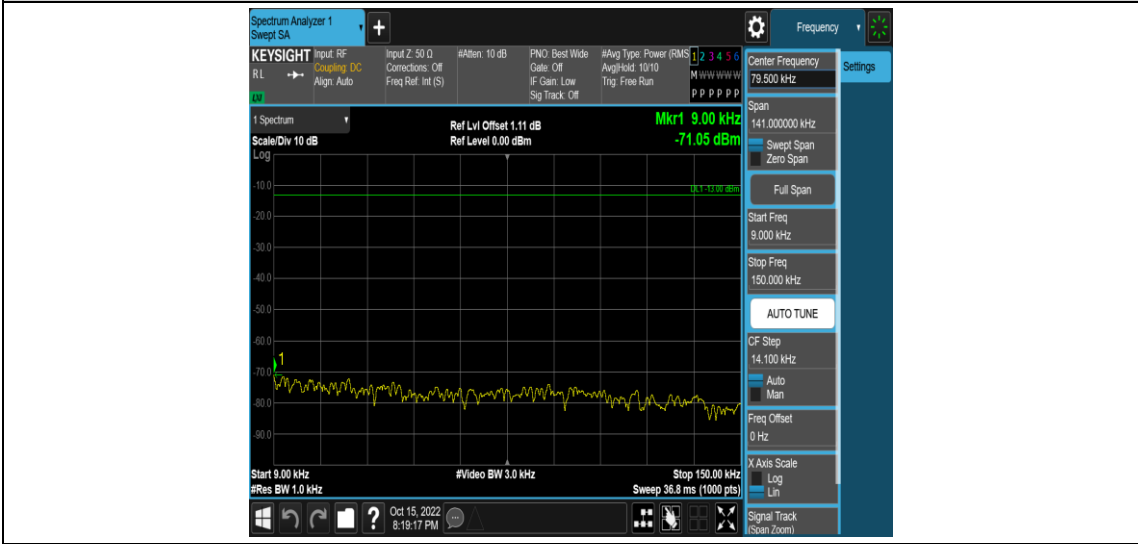
Band17-5MHz-QPSK-23825-1RB#0-Range3:30~1000MHz



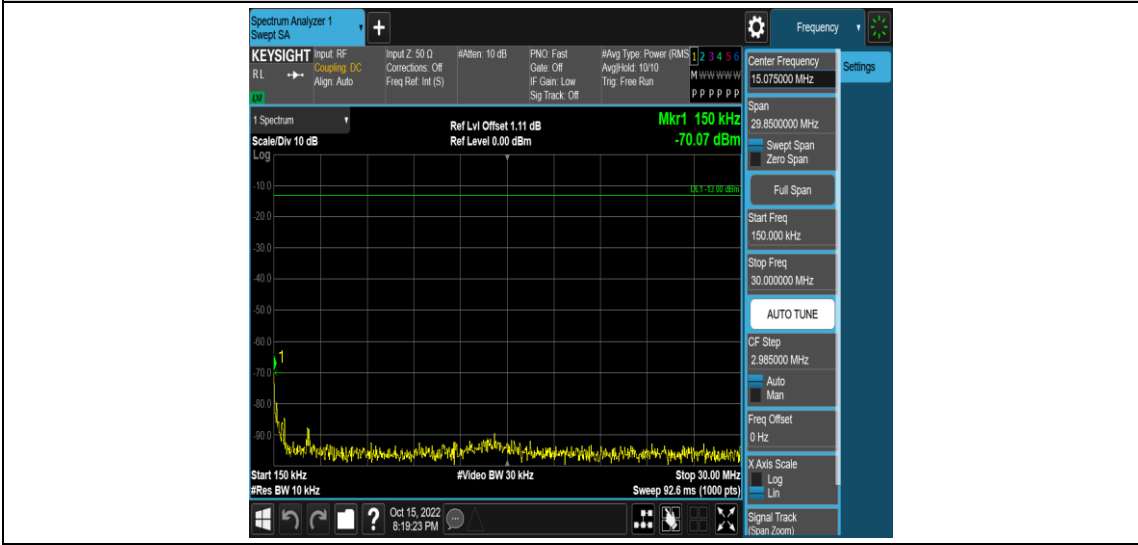
Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~10000MHz



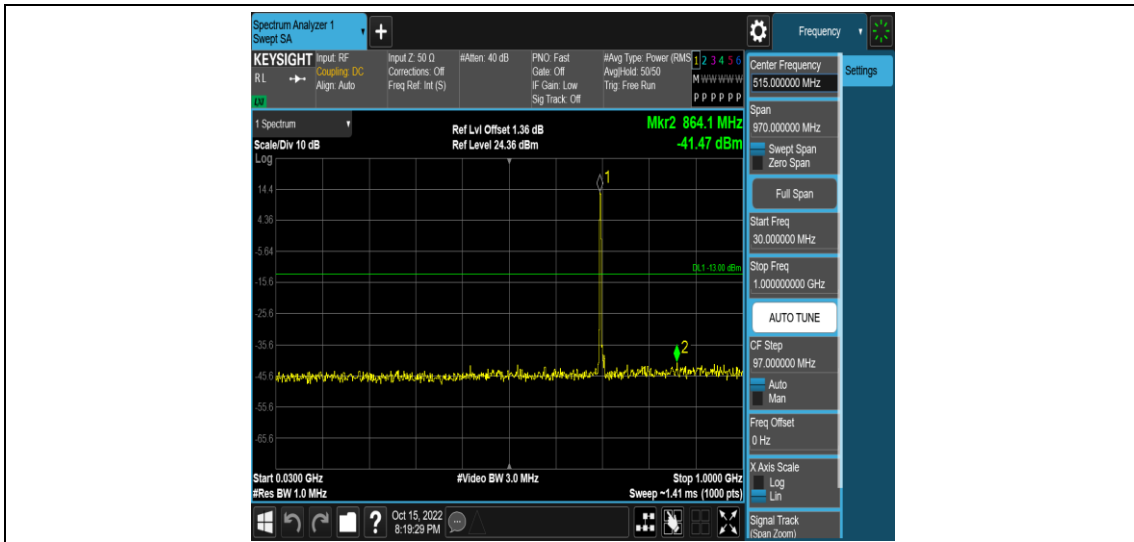
Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz



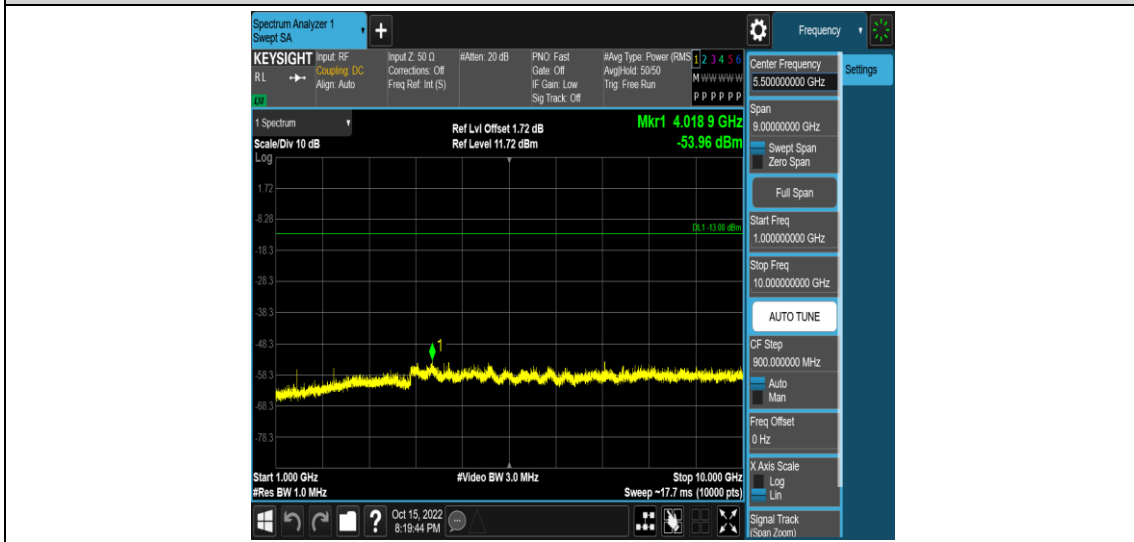
Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz



Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz



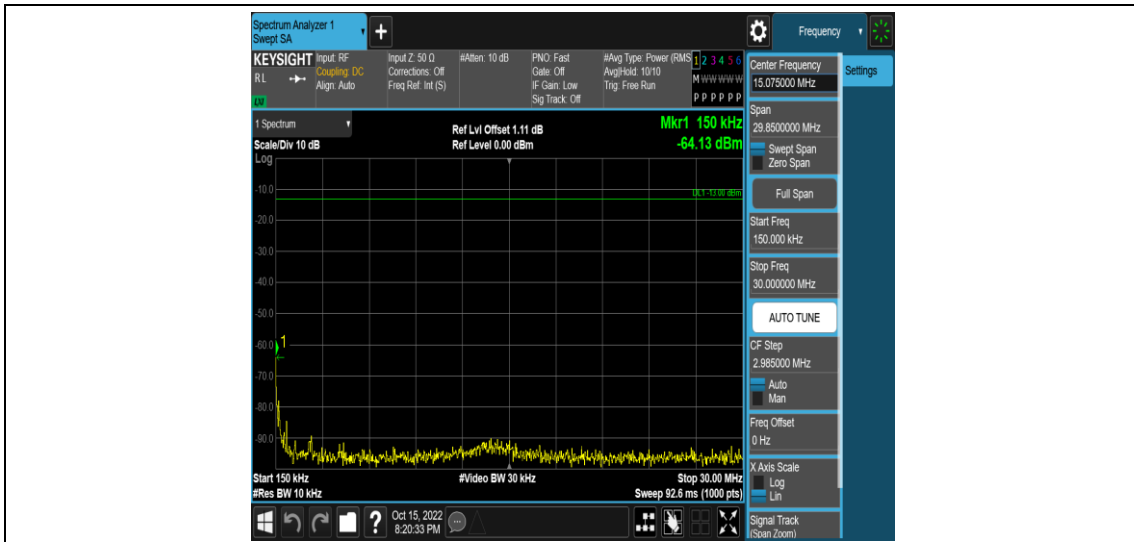
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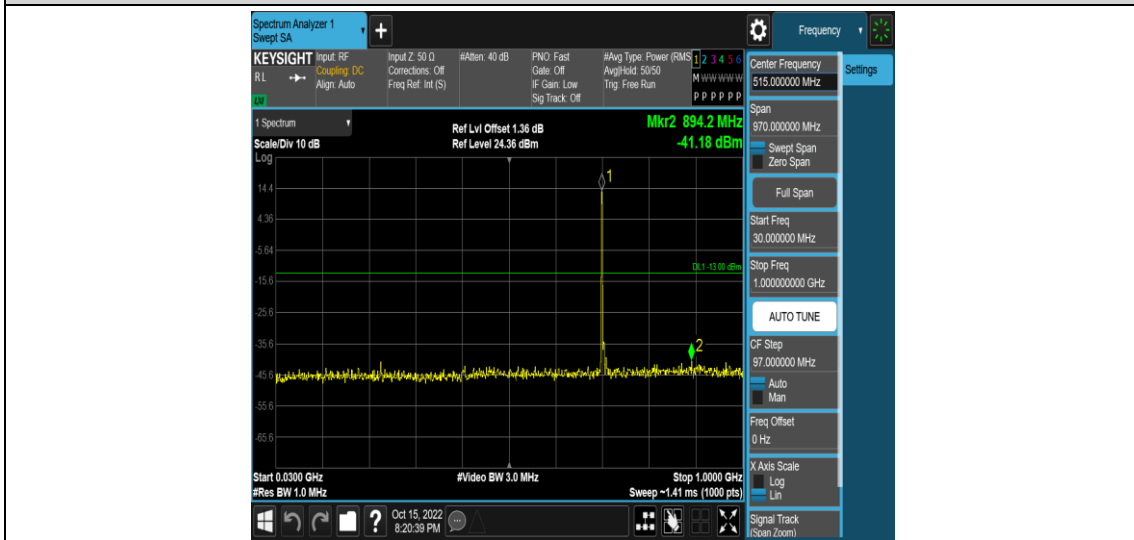
Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz



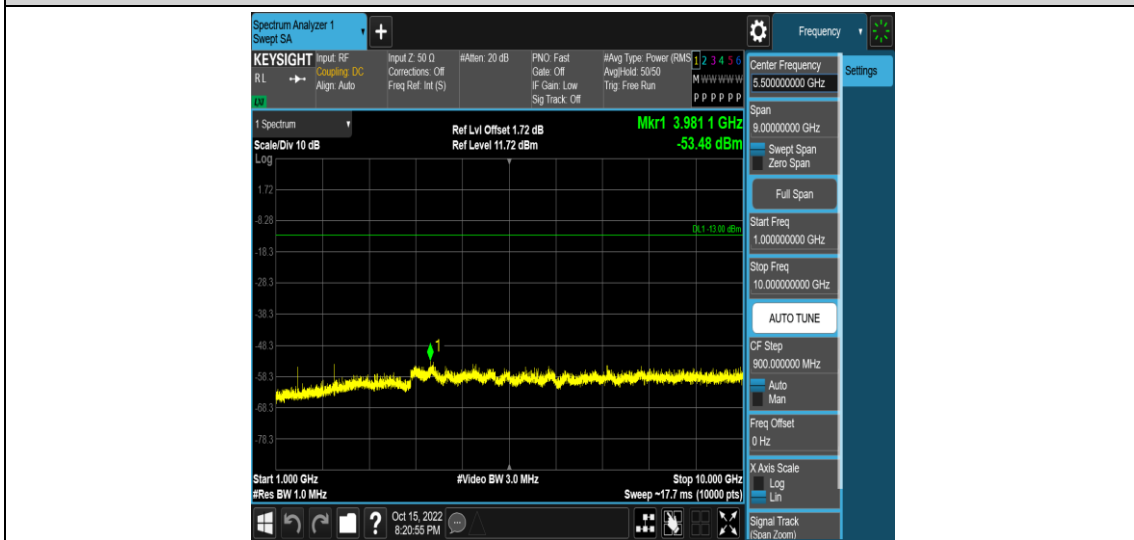
Band17-5MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz



Band17-5MHz-16QAM-23790-1RB#0-Range3:30~1000MHz



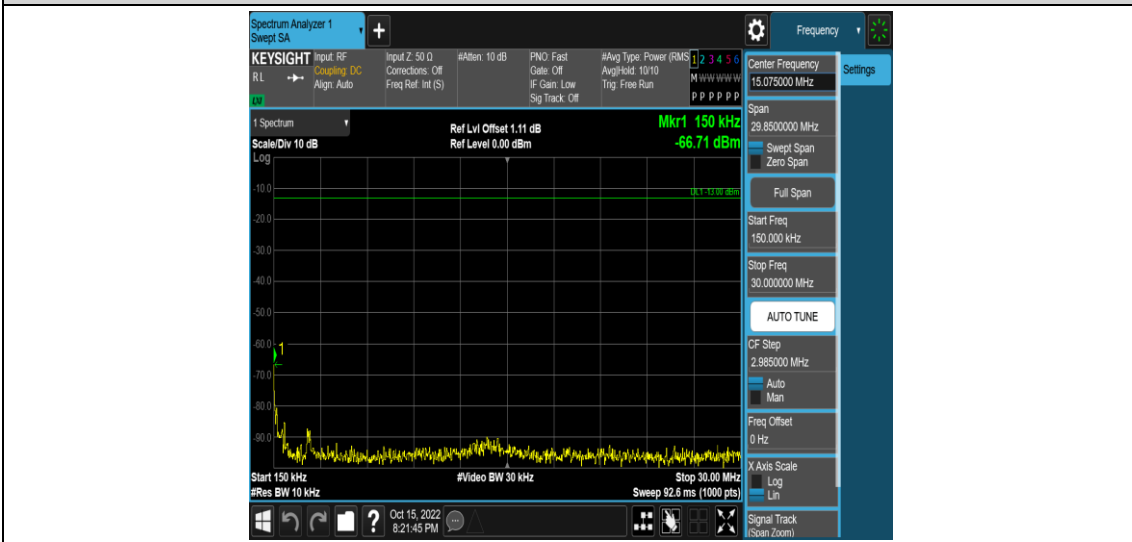
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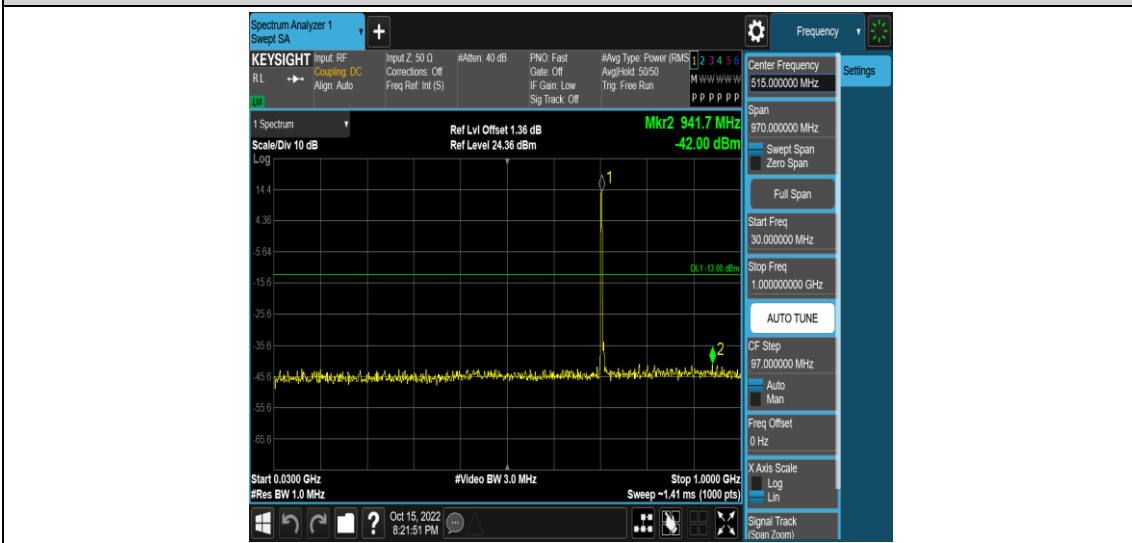
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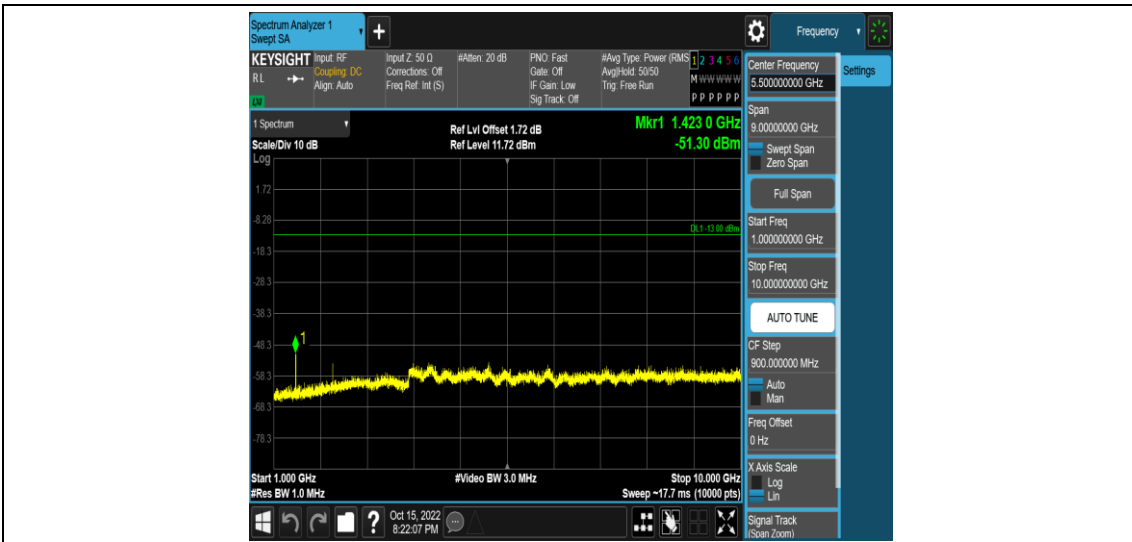
Band17-5MHz-16QAM-23825-1RB#0-Range2:0.15~30MHz



Band17-5MHz-16QAM-23825-1RB#0-Range3:30~1000MHz



Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~10000MHz



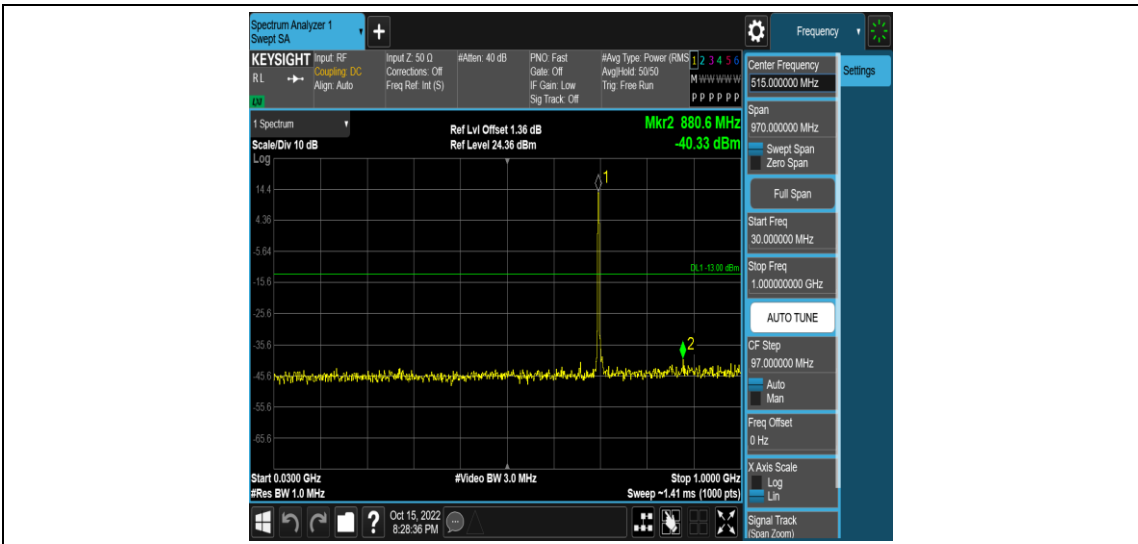
Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



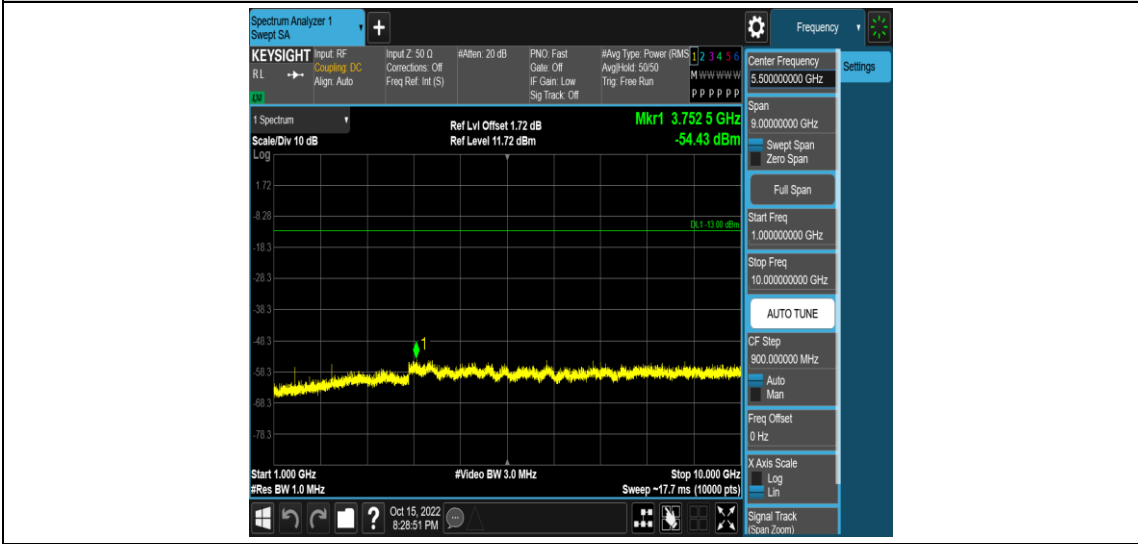
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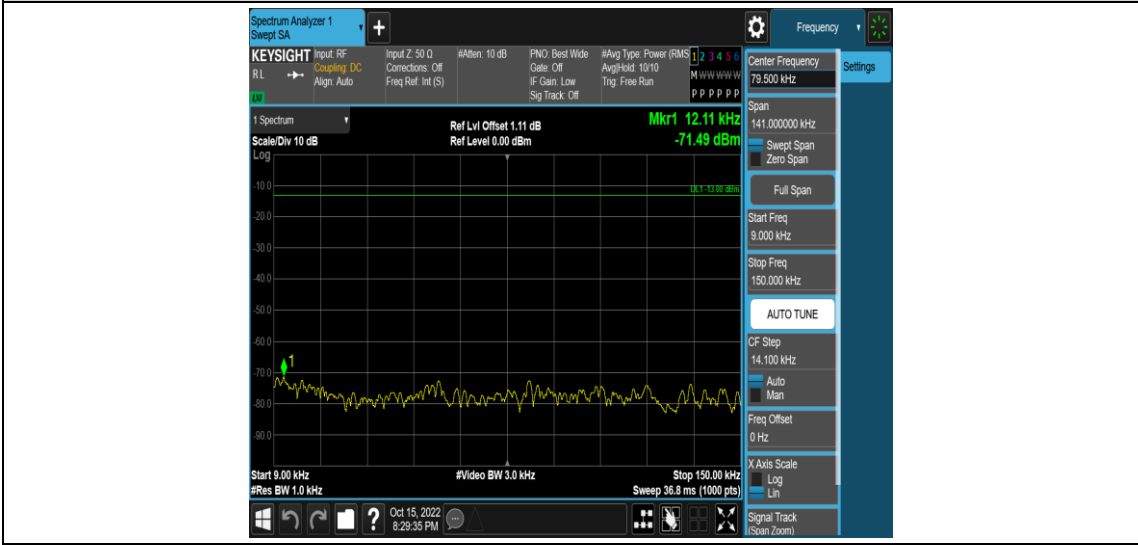
Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



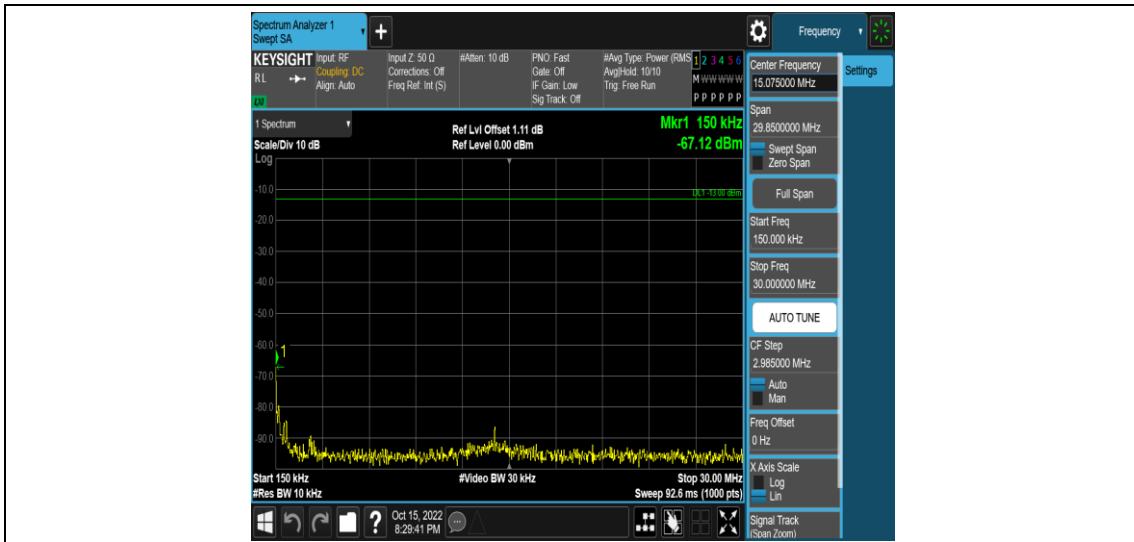
Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



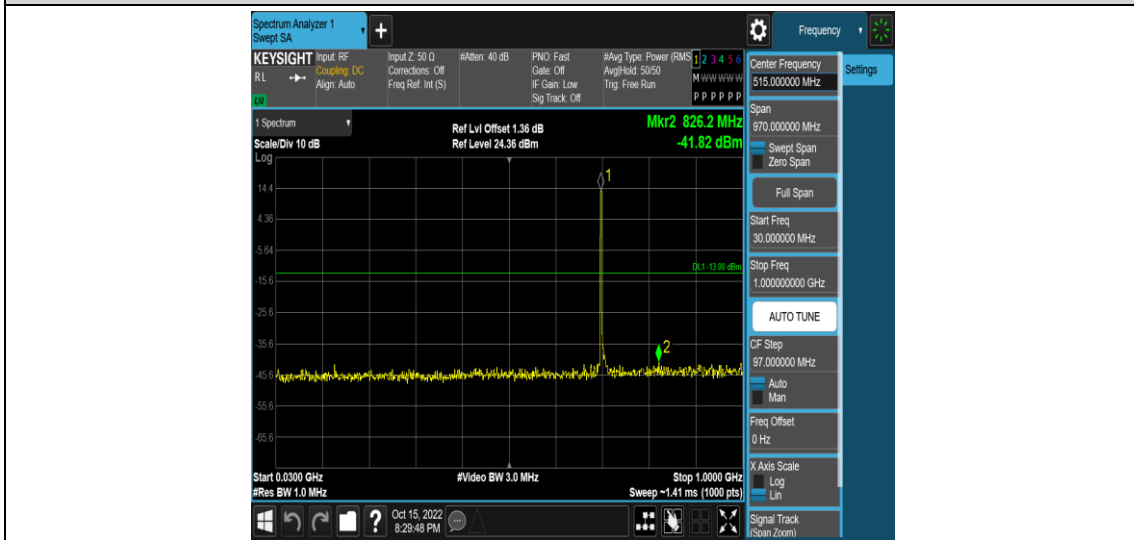
Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



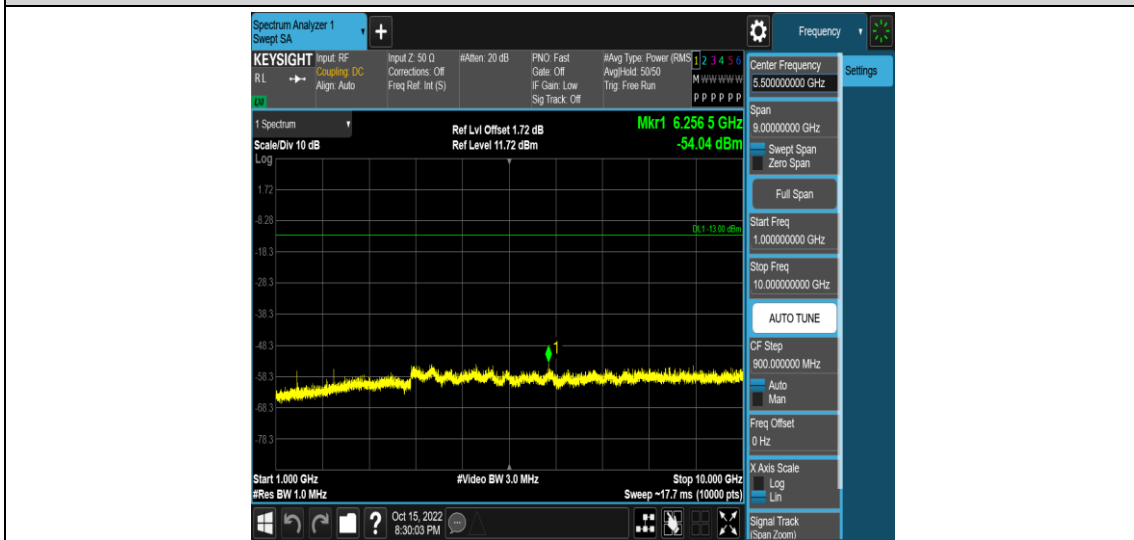
Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



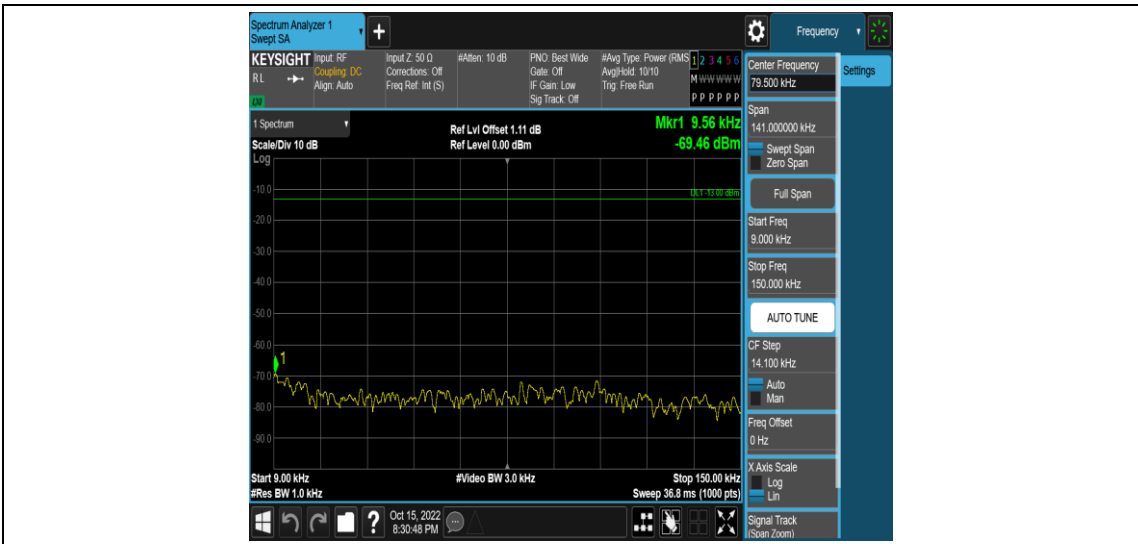
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



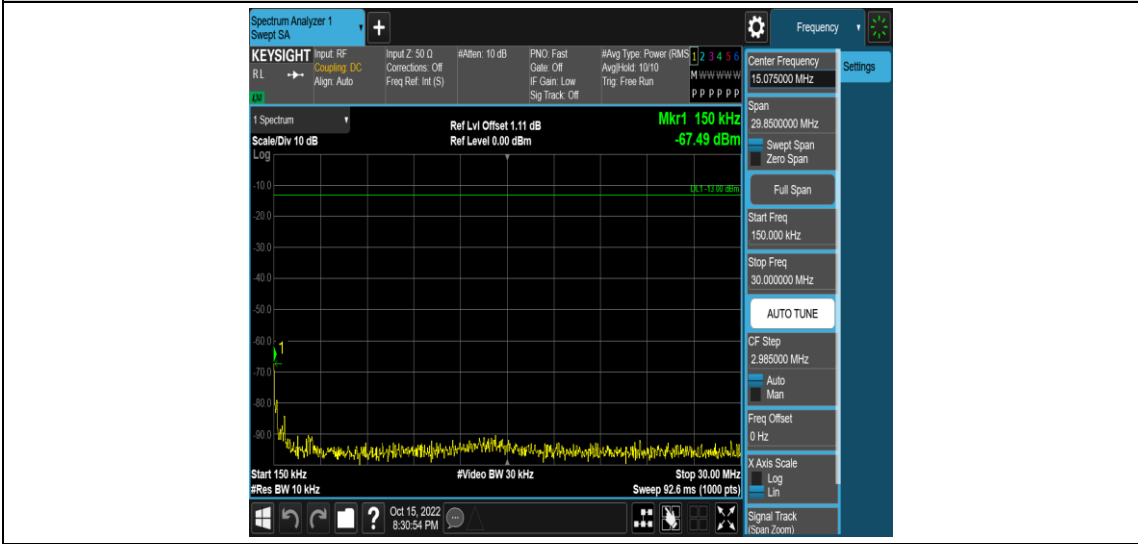
Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



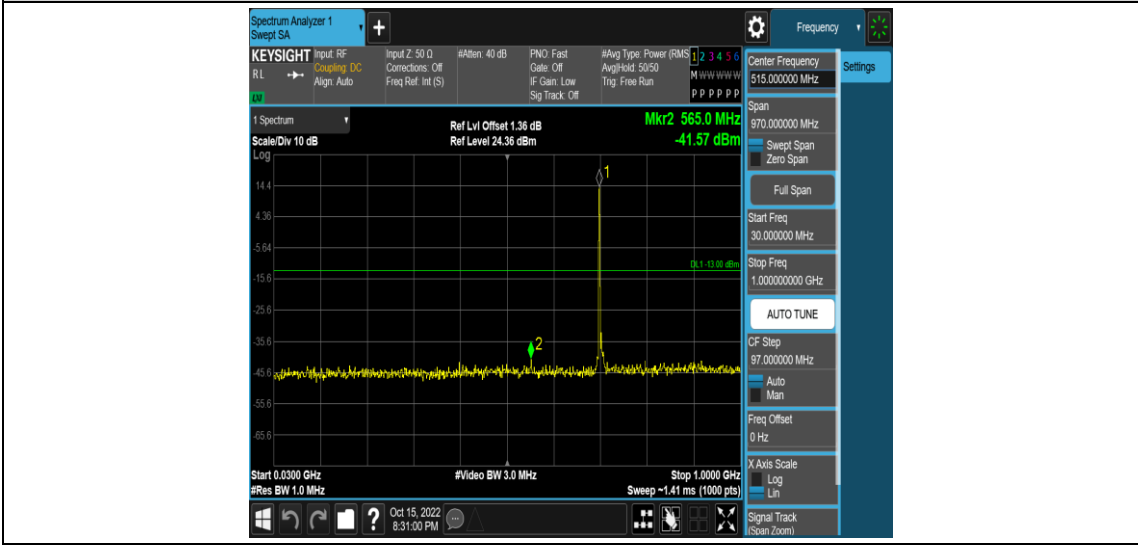
Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



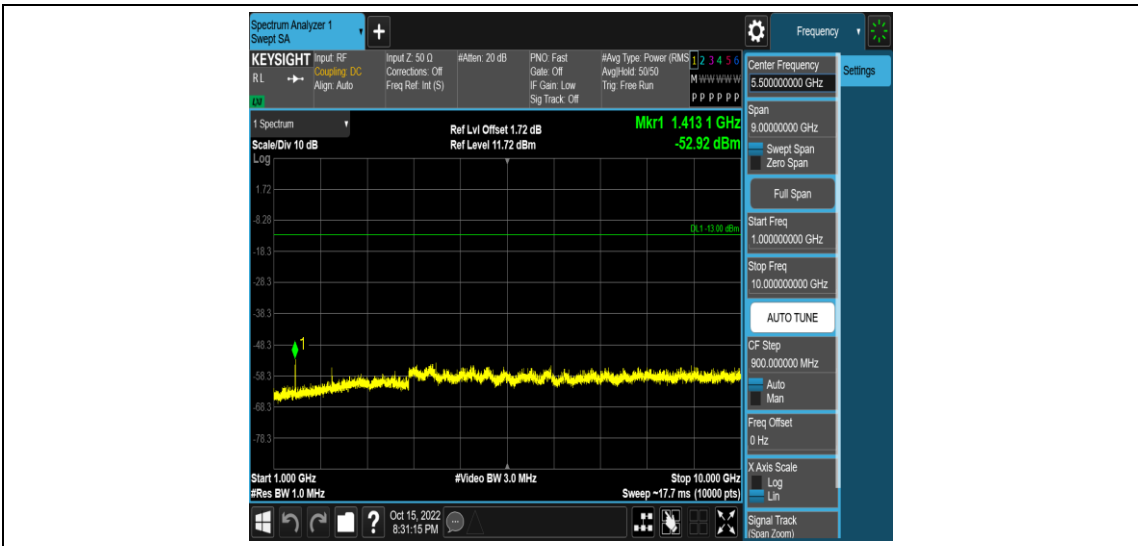
Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



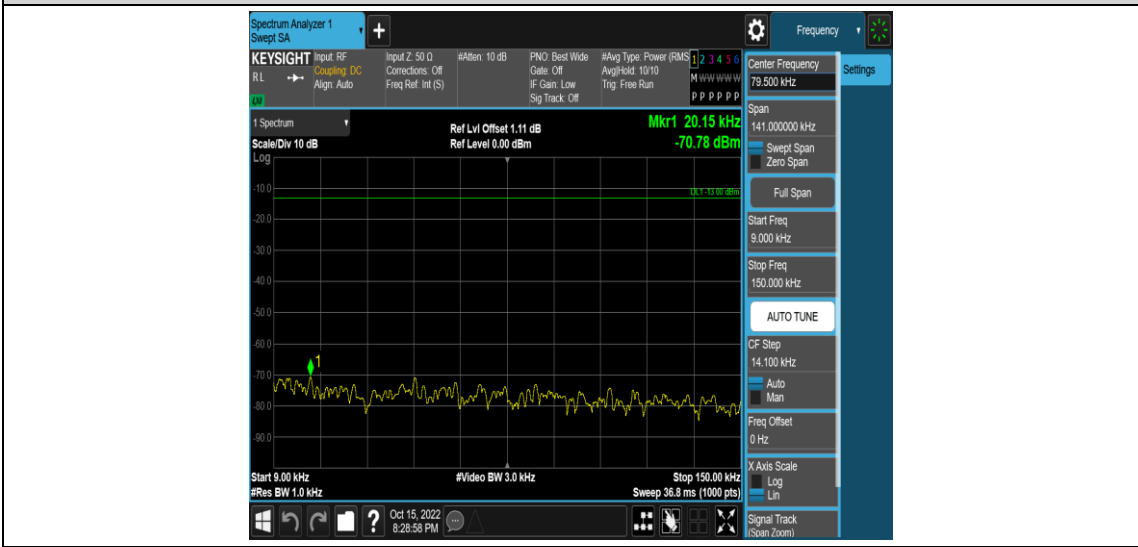
Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



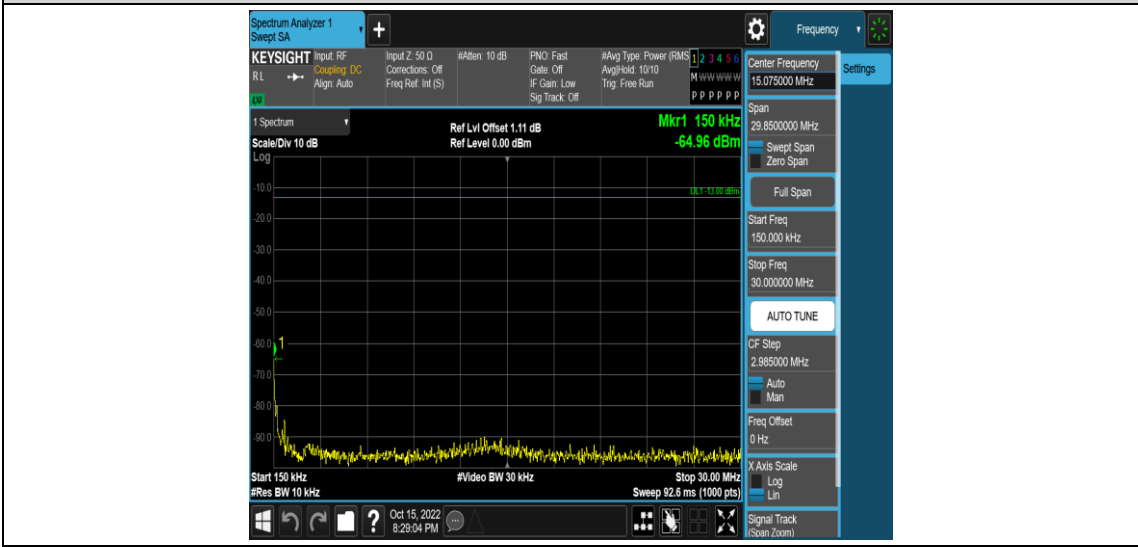
Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



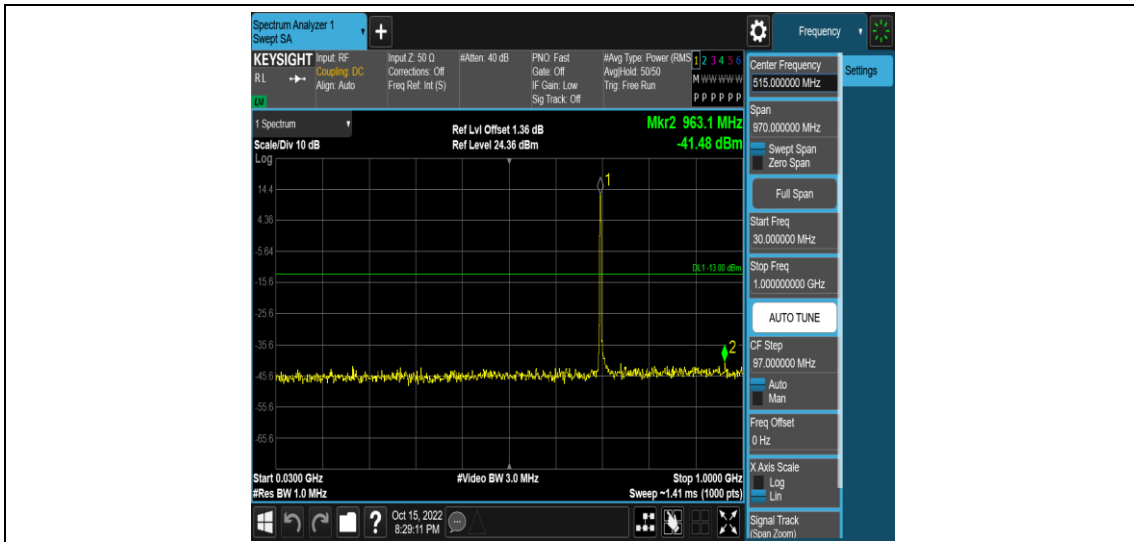
Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz



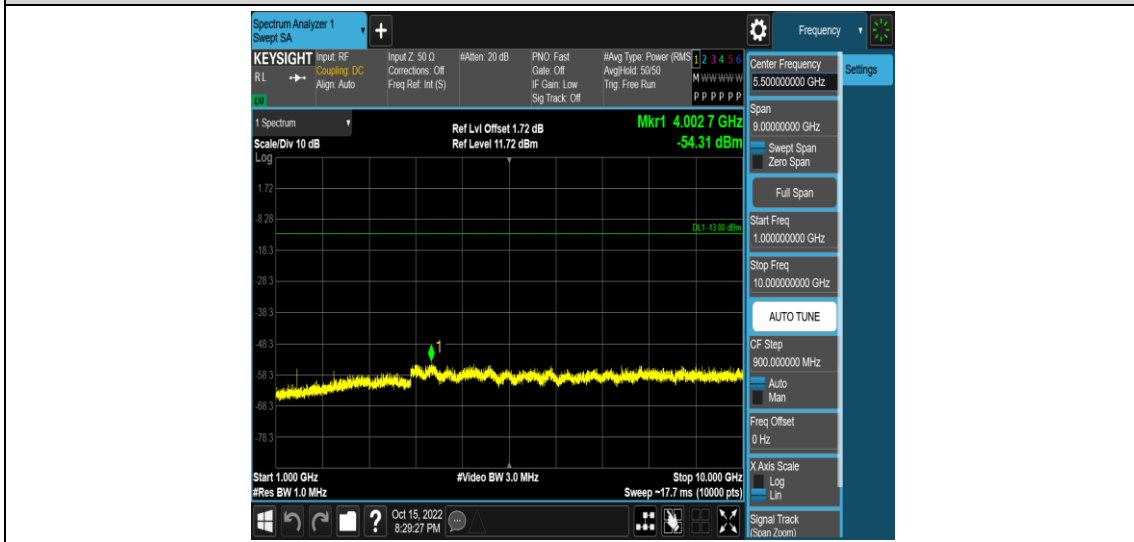
Band17-10MHz-16QAM-23780-1RB#0-Range2:0.15~30MHz



Band17-10MHz-16QAM-23780-1RB#0-Range3:30~1000MHz



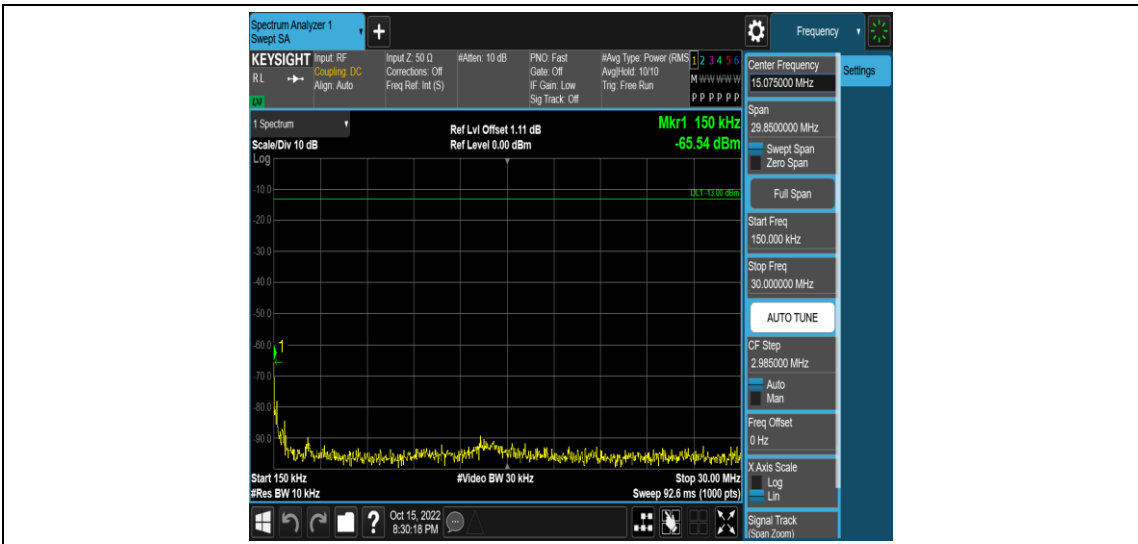
Band17-10MHz-16QAM-23780-1RB#0-Range4: 1000~10000MHz



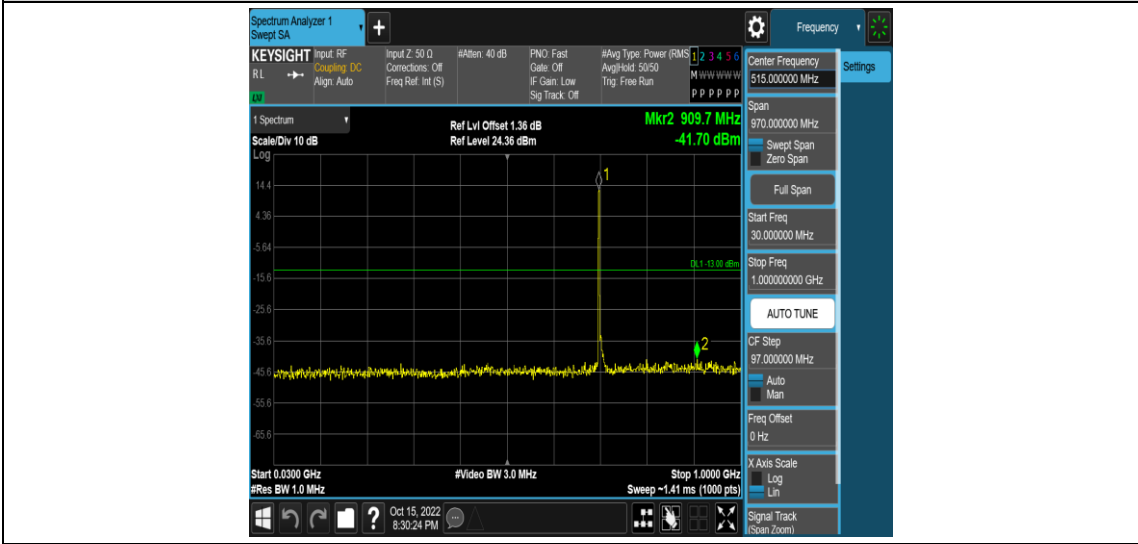
Band17-10MHz-16QAM-23790-1RB#0-Range1: 0.009~0.15MHz



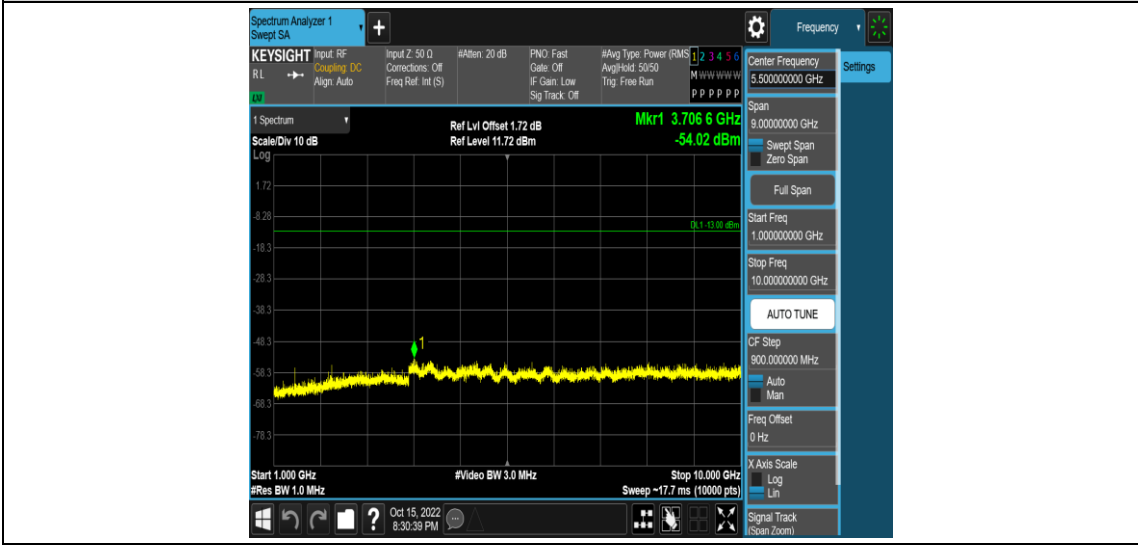
Band17-10MHz-16QAM-23790-1RB#0-Range2: 0.15~30MHz



Band17-10MHz-16QAM-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz



Band17-10MHz-16QAM-23800-1RB#0-Range1:0.009~0.15MHz



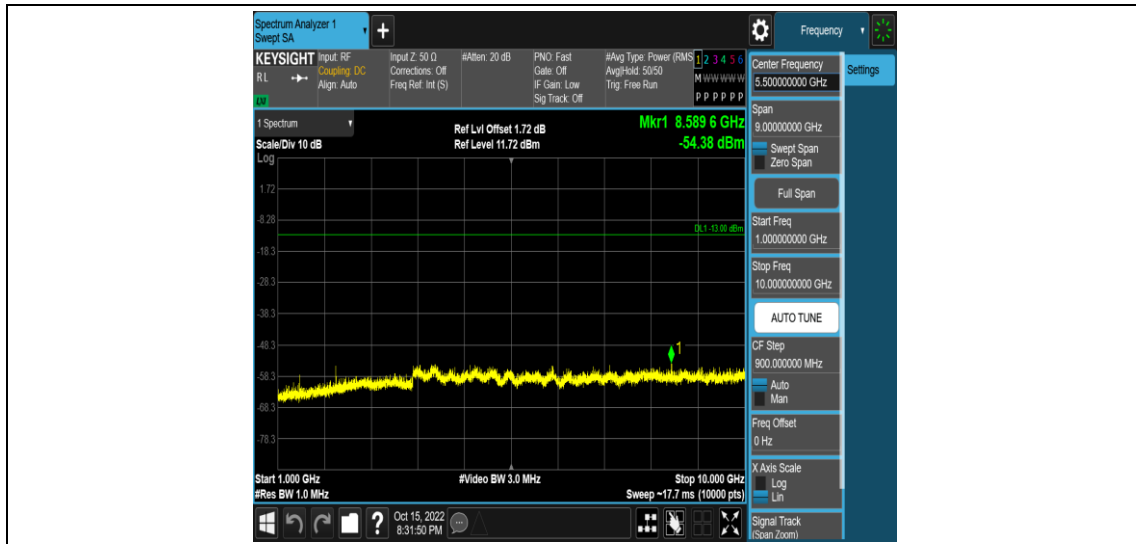
Band17-10MHz-16QAM-23800-1RB#0-Range2:0.15~30MHz



Band17-10MHz-16QAM-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-16QAM-23800-1RB#0-Range4:1000~10000MHz



Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Limit (ppm)	Verdict
Band1 7	5MHz	QPSK	23755	25RB#0	VL	NT	-9.10	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VN	NT	-8.38	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VH	NT	-8.07	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VL	NT	-8.54	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VN	NT	-4.42	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VH	NT	-9.77	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VL	NT	-7.47	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VN	NT	-4.42	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VH	NT	-4.92	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VL	NT	-8.80	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VN	NT	-8.11	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VH	NT	-5.36	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VL	NT	-12.23	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VN	NT	-12.57	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VH	NT	-12.56	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VL	NT	-5.64	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VN	NT	-5.65	±2.5	PASS
Band1	5MHz	16QAM	23825	25RB#0	VH	NT	-6.81	±2.5	PASS

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Band1 7	10MHz	QPSK	23780	50RB#0	VL	NT	-8.57	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VN	NT	-11.13	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VH	NT	-7.48	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VL	NT	-9.66	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VN	NT	-8.58	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VH	NT	-9.96	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VL	NT	-5.45	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VN	NT	-7.61	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VH	NT	-8.43	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VL	NT	-9.96	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VN	NT	-10.64	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VH	NT	-6.02	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VL	NT	-7.85	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VN	NT	-3.69	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VH	NT	-13.10	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VL	NT	-7.80	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VN	NT	-9.80	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VH	NT	-12.50	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 7	5MHz	QPSK	23755	25RB#0	NV	-30	-9.17	-0.012979	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	-20	-9.47	-0.013404	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	0	-10.63	-0.015046	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	10	-11.59	-0.016405	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	20	-8.98	-0.012711	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-30	-13.62	-0.019183	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-20	-13.65	-0.019225	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	0	-10.81	-0.015225	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	10	-11.46	-0.016141	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	20	-7.64	-0.010761	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-30	-2.75	-0.003854	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-20	-1.67	-0.002341	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	0	-2.40	-0.003364	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	10	-4.31	-0.006041	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	20	-3.63	-0.005088	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-30	-4.99	-0.007063	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-20	-3.76	-0.005322	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	0	-6.62	-0.009370	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	10	-3.99	-0.005648	±2.5	PASS
Band1	5MHz	16QAM	23755	25RB#0	NV	20	1.96	0.002774	±2.5	PASS

7										
Band1 7	5MHz	16QAM	23790	25RB#0	NV	-30	-10.56	-0.014873	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	-20	-5.15	-0.007254	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	0	-12.50	-0.017606	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	10	-10.19	-0.014352	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	20	-5.19	-0.007310	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-30	-7.37	-0.010329	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-20	-5.99	-0.008395	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	0	-5.76	-0.008073	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	10	-10.51	-0.014730	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	20	-6.94	-0.009727	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-30	-6.12	-0.008632	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-20	-6.19	-0.008731	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	0	-11.90	-0.016784	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	10	-10.34	-0.014584	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	20	-10.33	-0.014570	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-30	-10.89	-0.015338	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-20	-10.74	-0.015127	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	0	-3.92	-0.005521	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	10	-6.47	-0.009113	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	20	-4.06	-0.005718	±2.5	PASS
Band1	10MHz	QPSK	23800	50RB#0	NV	-30	-7.64	-0.010745	±2.5	PASS

7										
Band1 7	10MHz	QPSK	23800	50RB#0	NV	-20	-8.74	-0.012293	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	0	-9.36	-0.013165	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	10	-9.44	-0.013277	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	20	-9.81	-0.013797	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-30	-8.68	-0.012243	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-20	-4.15	-0.005853	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	0	-9.93	-0.014006	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	10	-3.38	-0.004767	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	20	-2.53	-0.003568	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-30	-12.13	-0.017085	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-20	-13.07	-0.018408	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	0	-9.68	-0.013634	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	10	-5.08	-0.007155	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	20	-8.44	-0.011887	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-30	-7.91	-0.011125	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-20	-9.84	-0.013840	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	0	-5.66	-0.007961	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	10	-5.55	-0.007806	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	20	-4.42	-0.006217	±2.5	PASS