

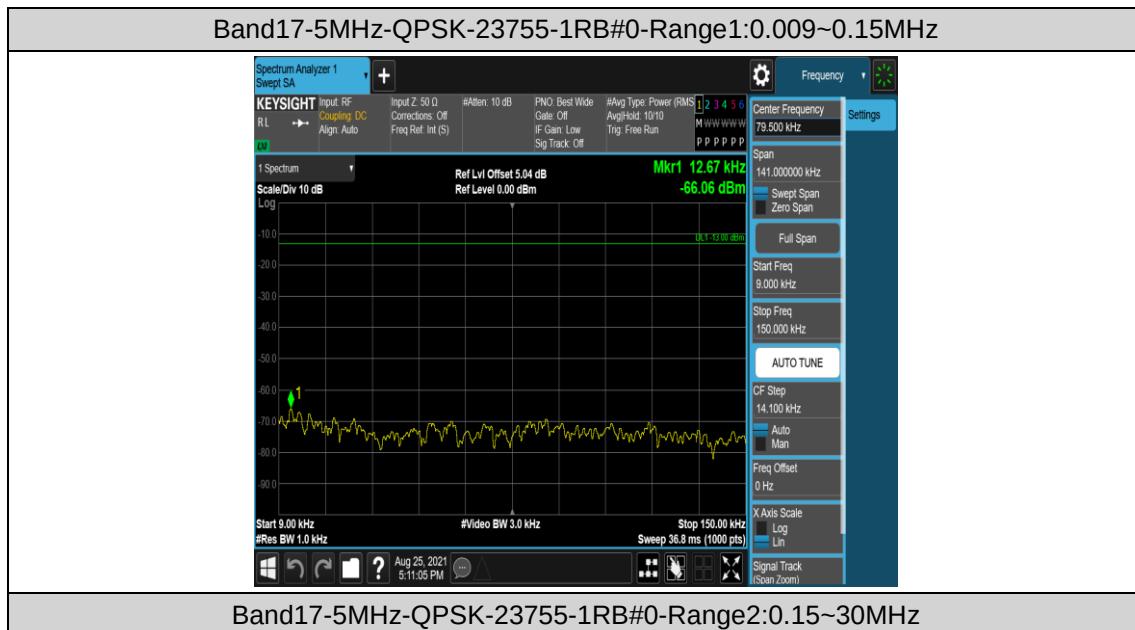
Appendix E: Conducted Spurious Emission

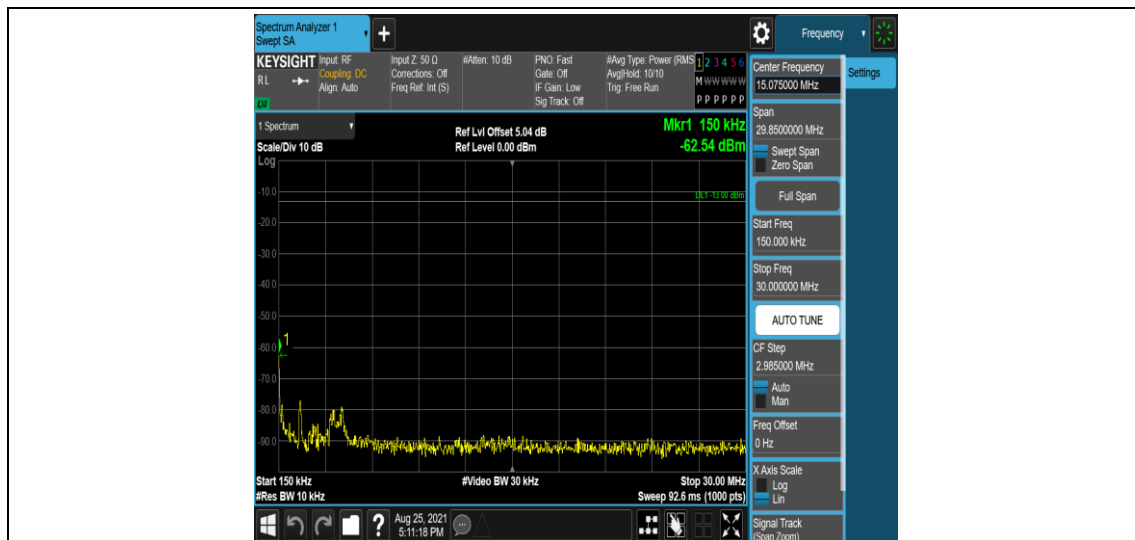
Test Result

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-Range3:30~1000MHz



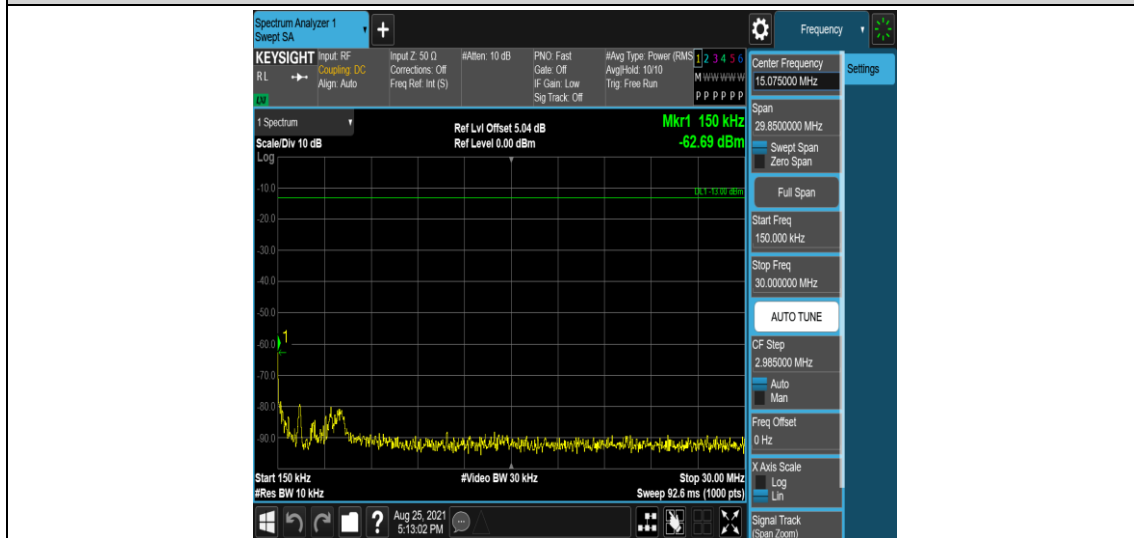
Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz



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



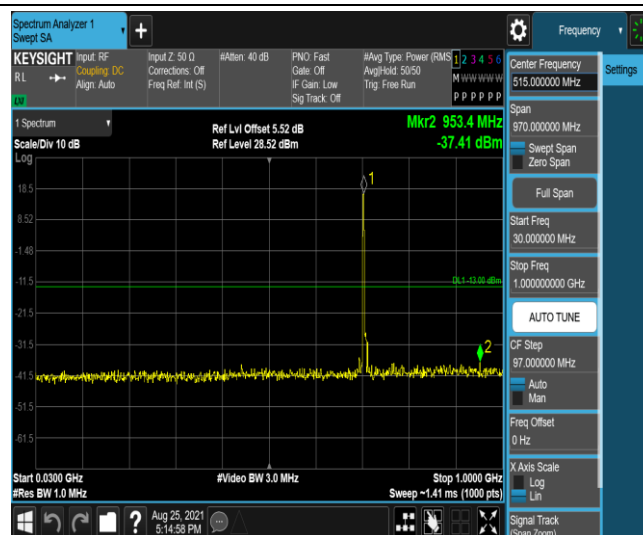
Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz



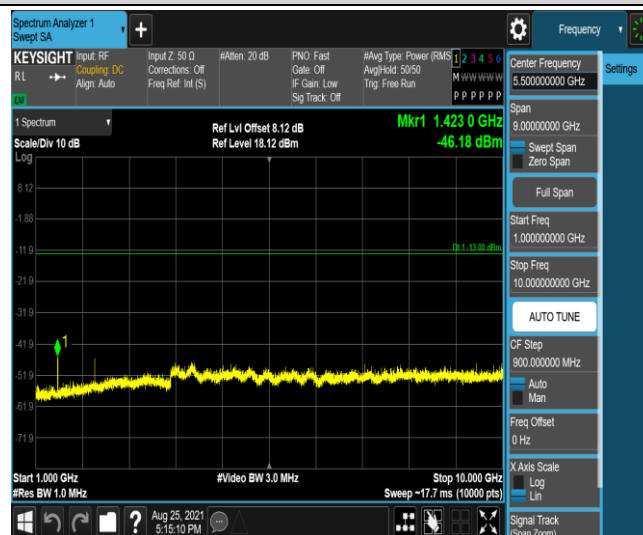
Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz



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



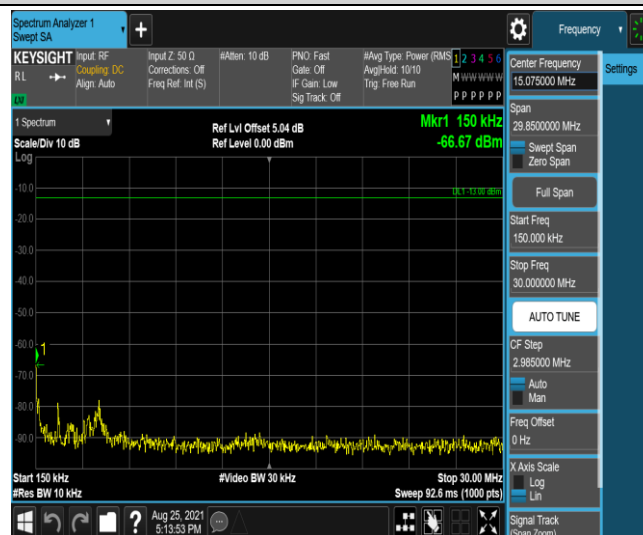
Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~10000MHz



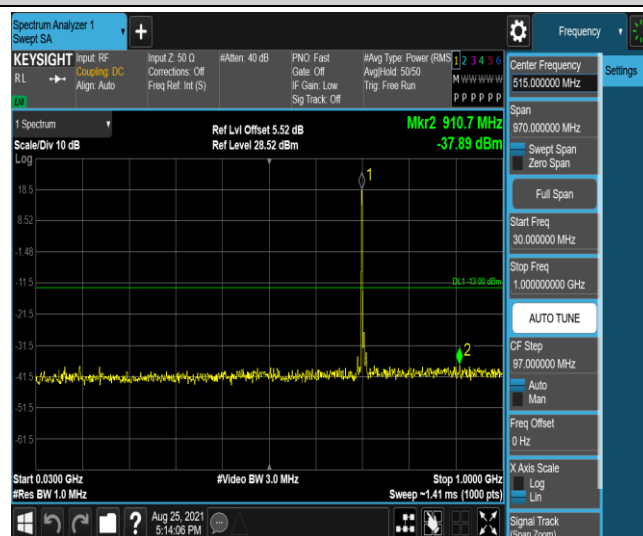
Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz



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



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



Band17-5MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz



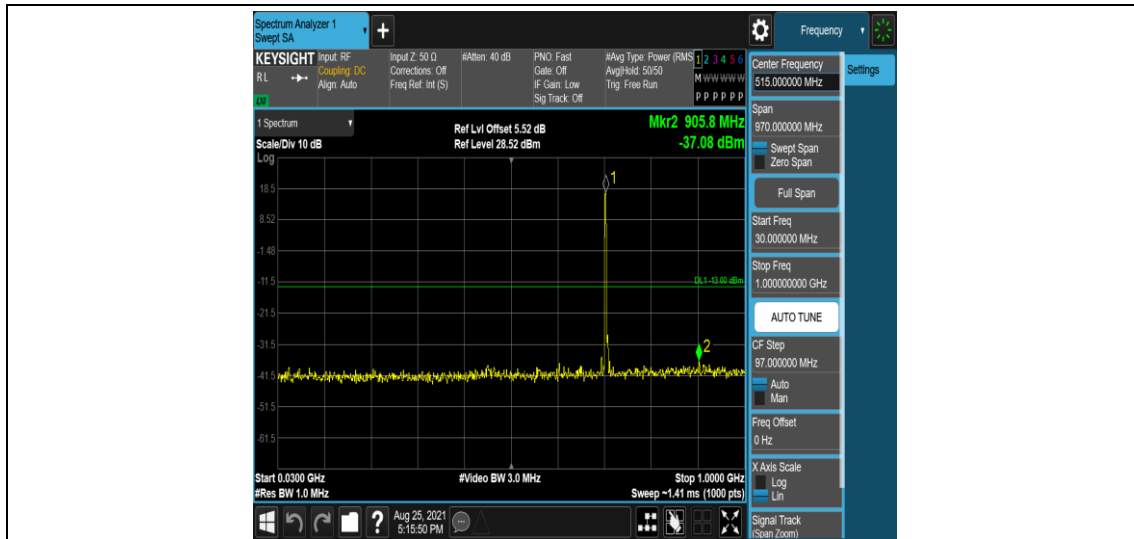
Band17-5MHz-16QAM-23825-1RB#0-Range1:0.009~0.15MHz



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



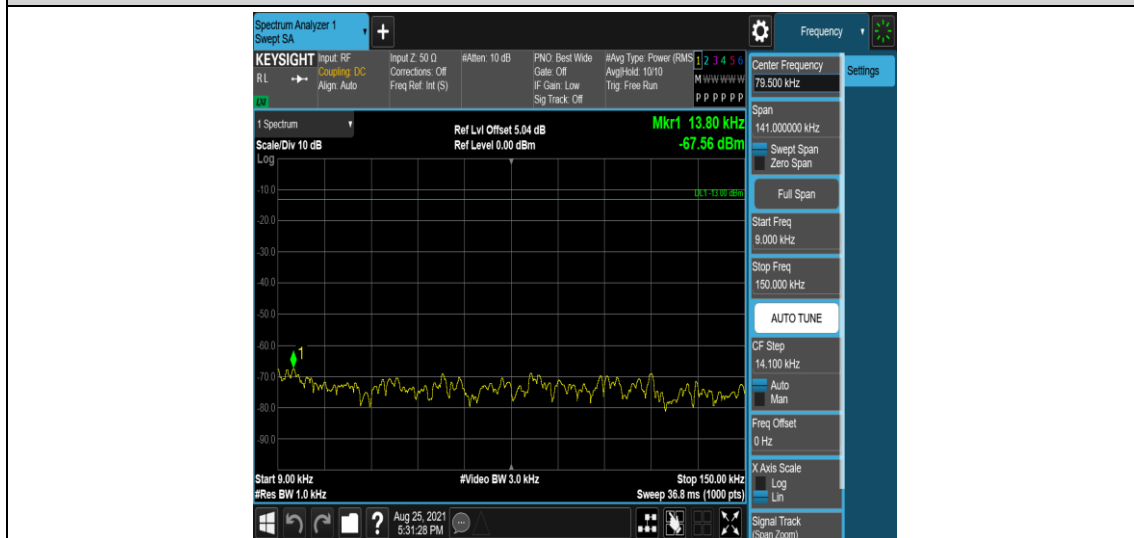
Band17-5MHz-16QAM-23825-1RB#0-Range3:30~1000MHz



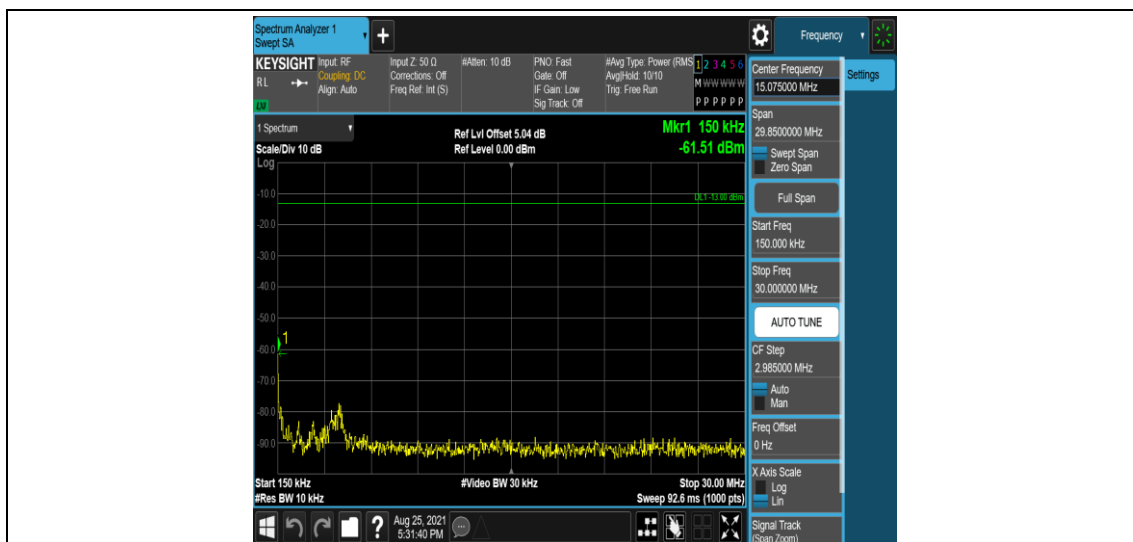
Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~10000MHz



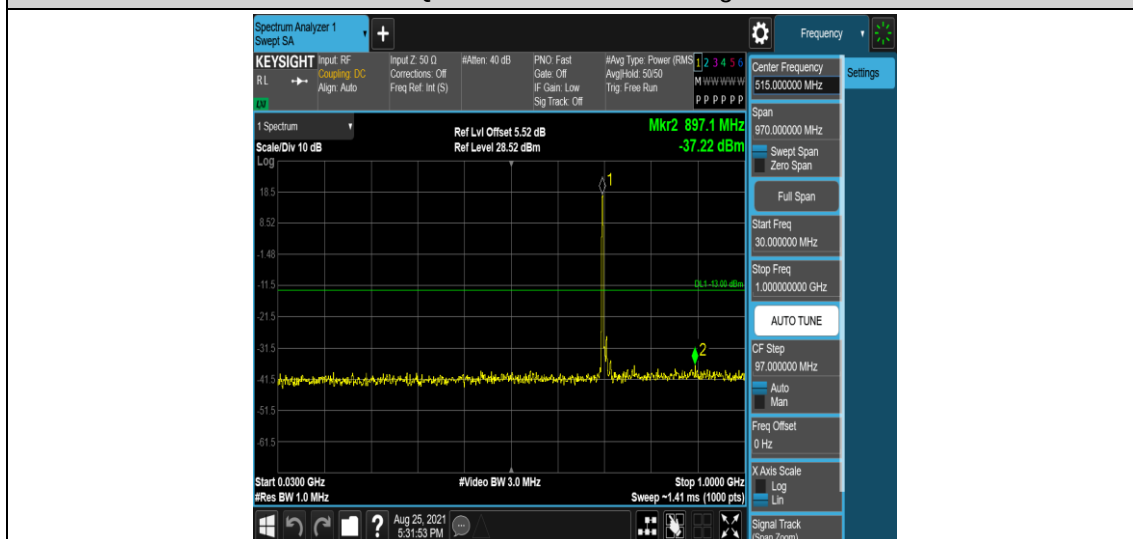
Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



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



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



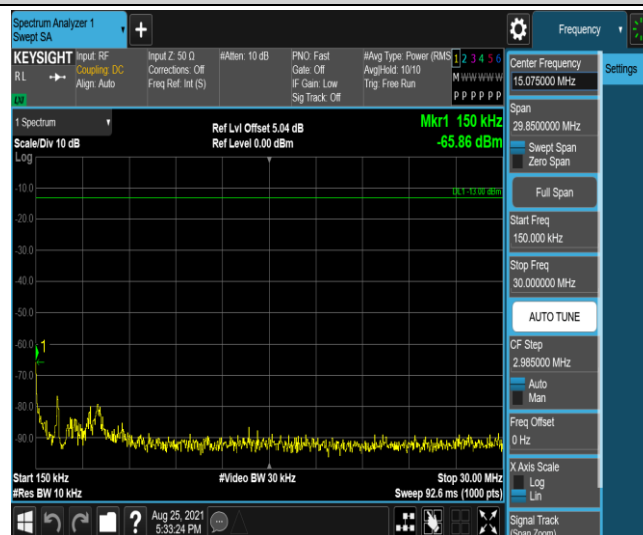
Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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



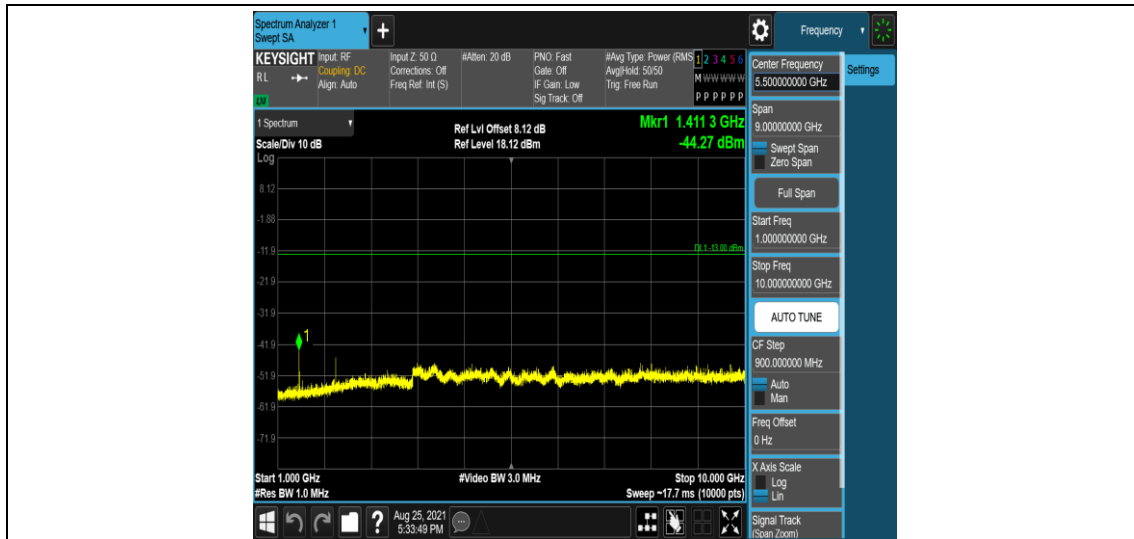
Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



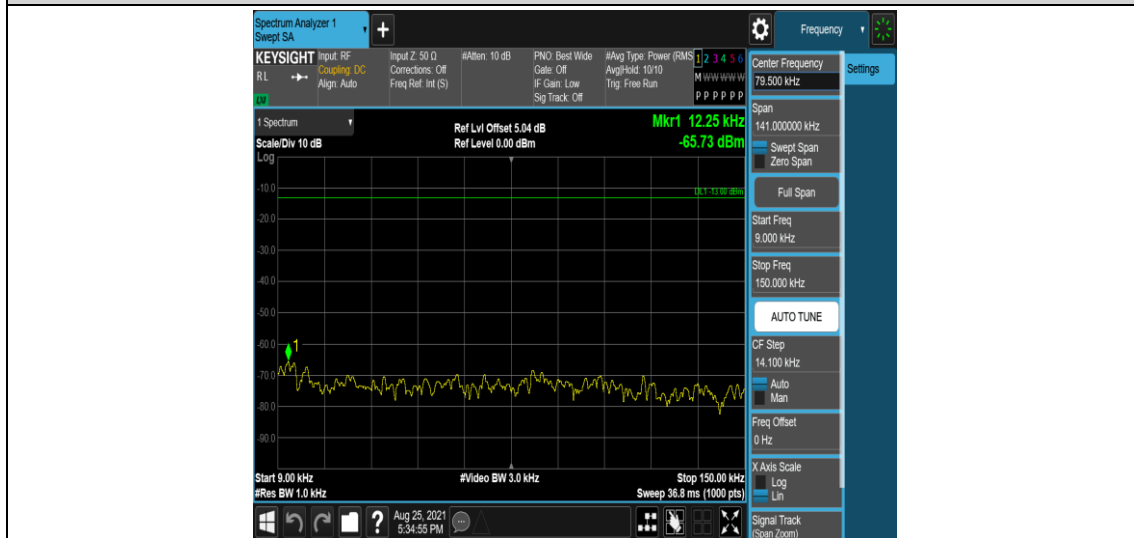
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



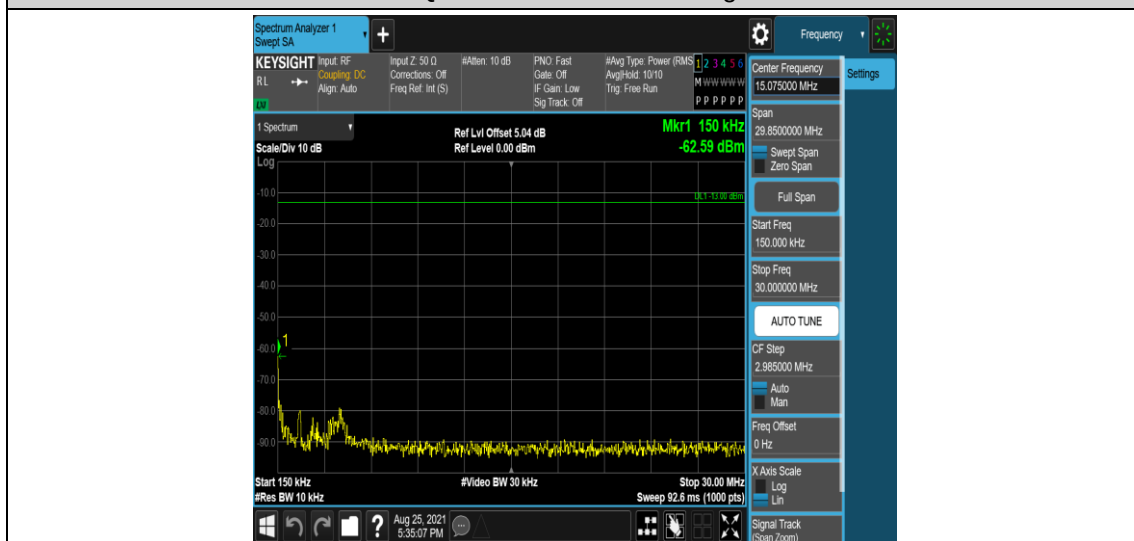
Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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



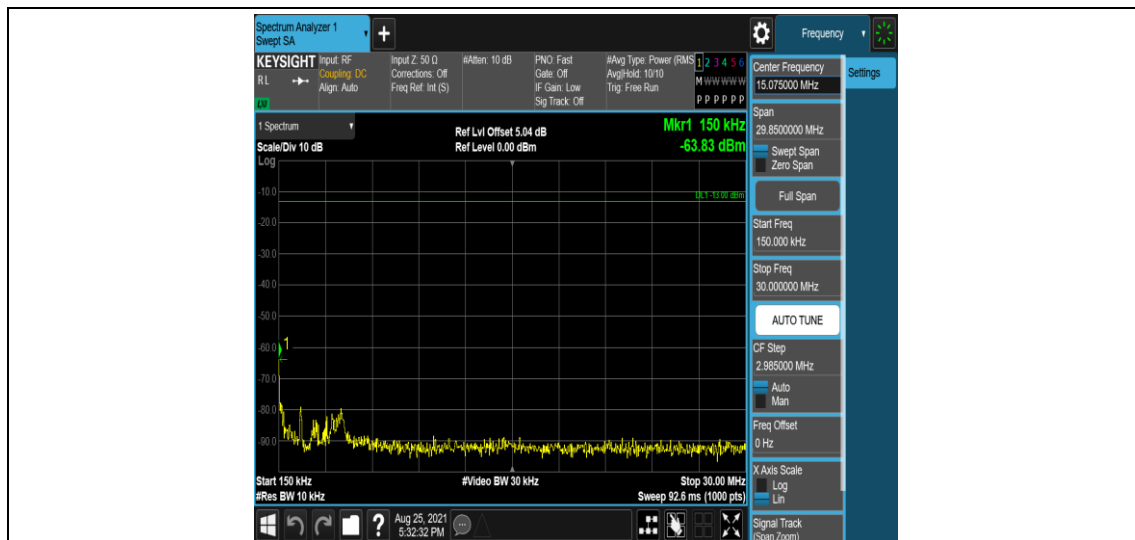
Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



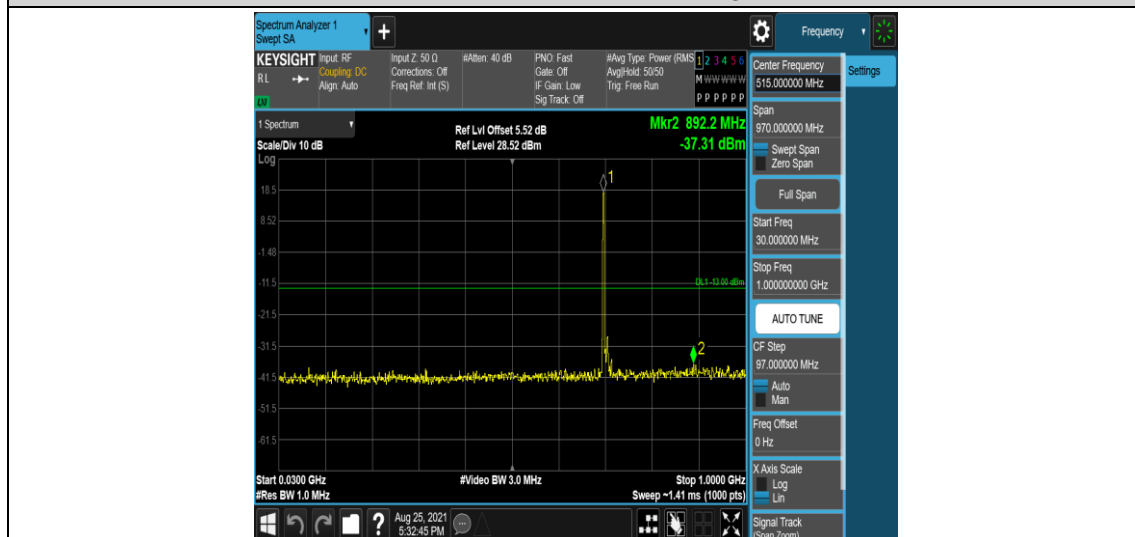
Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz



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



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 7	5MHz	QPSK	23755	25RB#0	VL	NT	-6.58	-0.009314	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VN	NT	-5.99	-0.008478	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	VH	NT	-5.59	-0.007912	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VL	NT	-2.60	-0.003662	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VN	NT	-8.96	-0.012620	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	VH	NT	-9.47	-0.013338	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VL	NT	-9.61	-0.013469	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VN	NT	-10.17	-0.014254	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	VH	NT	-8.70	-0.012193	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VL	NT	-12.06	-0.017070	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VN	NT	1.54	0.002180	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	VH	NT	-11.33	-0.016037	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VL	NT	-7.72	-0.010873	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VN	NT	-1.90	-0.002676	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	VH	NT	-6.74	-0.009493	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VL	NT	-14.68	-0.020575	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	VN	NT	-15.16	-0.021247	±2.5	PASS

Band1 7	5MHz	16QAM	23825	25RB#0	VH	NT	-5.46	-0.007652	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VL	NT	-4.31	-0.006079	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VN	NT	-5.66	-0.007983	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	VH	NT	-17.40	-0.024542	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VL	NT	-8.37	-0.011789	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VN	NT	-12.23	-0.017225	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	VH	NT	-6.68	-0.009408	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VL	NT	-8.68	-0.012208	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VN	NT	-10.69	-0.015035	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	VH	NT	-10.44	-0.014684	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VL	NT	-12.67	-0.017870	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VN	NT	-10.26	-0.014471	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	VH	NT	-10.63	-0.014993	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VL	NT	-4.31	-0.006070	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VN	NT	-7.01	-0.009873	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	VH	NT	-8.51	-0.011986	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VL	NT	-9.14	-0.012855	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VN	NT	-4.63	-0.006512	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	VH	NT	-10.54	-0.014824	±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	-4.98	-0.007049	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	-20	-8.83	-0.012498	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	0	-5.78	-0.008181	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	10	-2.80	-0.003963	±2.5	PASS
Band1 7	5MHz	QPSK	23755	25RB#0	NV	20	-6.91	-0.009781	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-30	-4.63	-0.006521	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	-20	-3.52	-0.004958	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	0	-8.74	-0.012310	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	10	-9.86	-0.013887	±2.5	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	NV	20	-10.64	-0.014986	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-30	-15.18	-0.021275	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	-20	-10.16	-0.014240	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	0	-12.15	-0.017029	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	10	-13.56	-0.019005	±2.5	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	NV	20	-12.16	-0.017043	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-30	-8.47	-0.011989	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	-20	-12.37	-0.017509	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	0	-4.84	-0.006851	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	10	-9.20	-0.013022	±2.5	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	NV	20	-12.62	-0.017863	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	-30	-6.31	-0.008887	±2.5	PASS

Band1 7	5MHz	16QAM	23790	25RB#0	NV	-20	-12.20	-0.017183	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	0	-12.29	-0.017310	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	10	-10.14	-0.014282	±2.5	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	NV	20	-11.46	-0.016141	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-30	-12.95	-0.018150	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	-20	-11.46	-0.016062	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	0	-6.41	-0.008984	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	10	-4.12	-0.005774	±2.5	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	NV	20	-9.78	-0.013707	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-30	-11.44	-0.016135	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	-20	-11.52	-0.016248	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	0	-12.65	-0.017842	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	10	-4.94	-0.006968	±2.5	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	NV	20	-11.70	-0.016502	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-30	-5.85	-0.008239	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	-20	-13.28	-0.018704	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	0	-7.95	-0.011197	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	10	-6.78	-0.009549	±2.5	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	NV	20	-11.37	-0.016014	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	-30	-9.98	-0.014037	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	-20	-4.45	-0.006259	±2.5	PASS

Band1 7	10MHz	QPSK	23800	50RB#0	NV	0	-7.42	-0.010436	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	10	-5.16	-0.007257	±2.5	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	NV	20	-11.73	-0.016498	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-30	-9.14	-0.012891	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	-20	-8.70	-0.012271	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	0	-5.15	-0.007264	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	10	-8.61	-0.012144	±2.5	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	NV	20	-13.09	-0.018463	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-30	-11.42	-0.016085	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	-20	-5.28	-0.007437	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	0	-9.78	-0.013775	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	10	-7.47	-0.010521	±2.5	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	NV	20	-4.16	-0.005859	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-30	-7.47	-0.010506	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	-20	-10.61	-0.014923	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	0	-8.45	-0.011885	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	10	-5.18	-0.007286	±2.5	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	NV	20	-10.19	-0.014332	±2.5	PASS