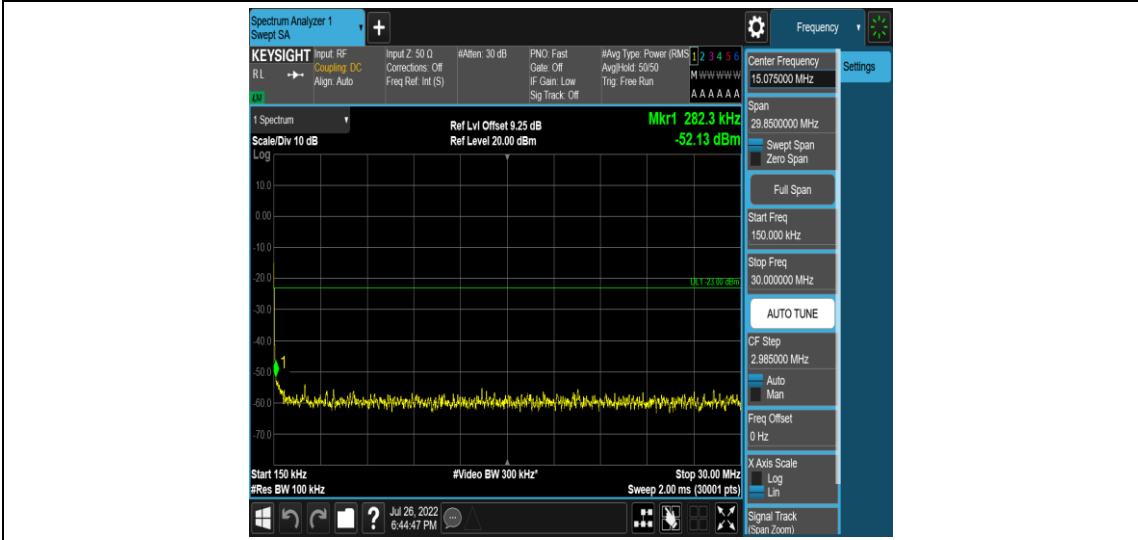
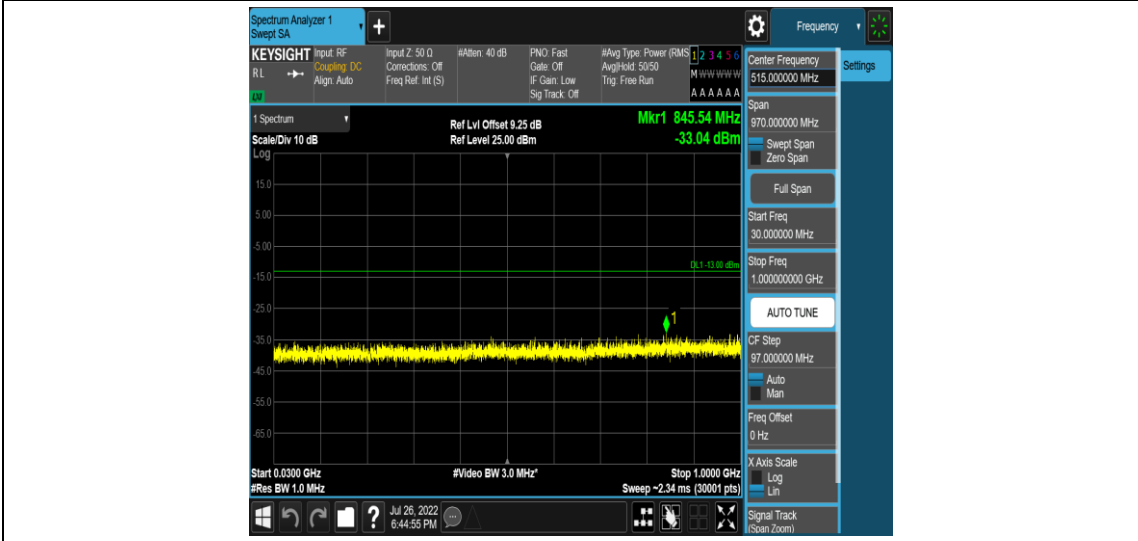


Band4-Stand-Alone-NaN-BPSK-20399-1 @ 11-15kHz-0.009-0.15-0.009~0.15MHz @ -51.07dB
m--43-PASS



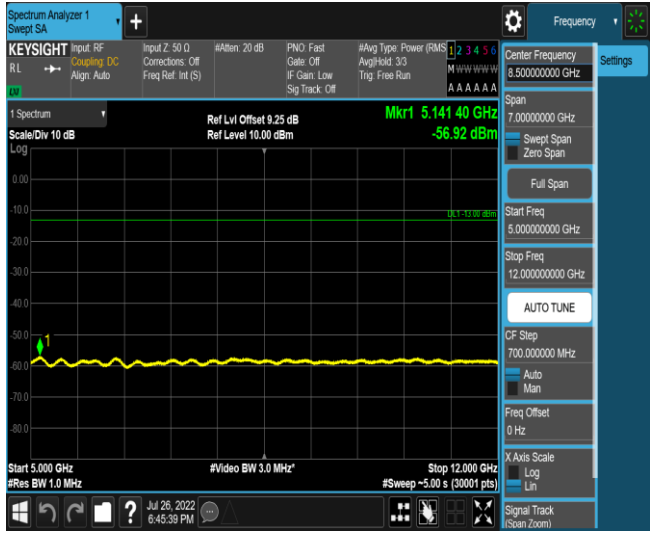
Band4-Stand-Alone-NaN-BPSK-20399-1 @ 11-15kHz-0.15-30-0.15~30MHz @ -52.13dBm--23-
PASS



Band4-Stand-Alone-NaN-BPSK-20399-1 @ 11-15kHz-30-1000-30~1000MHz@-33.04dBm--13
-PASS



Band4-Stand-Alone-NaN-BPSK-20399-1 @ 11-15kHz-1000-5000-1000~5000MHz@-35.73dB
m--13-PASS



Band4-Stand-Alone-NaN-BPSK-20399-1 @ 11-15kHz-5000-12000-5000~12000MHz@-56.92dB
Bm--13-PASS

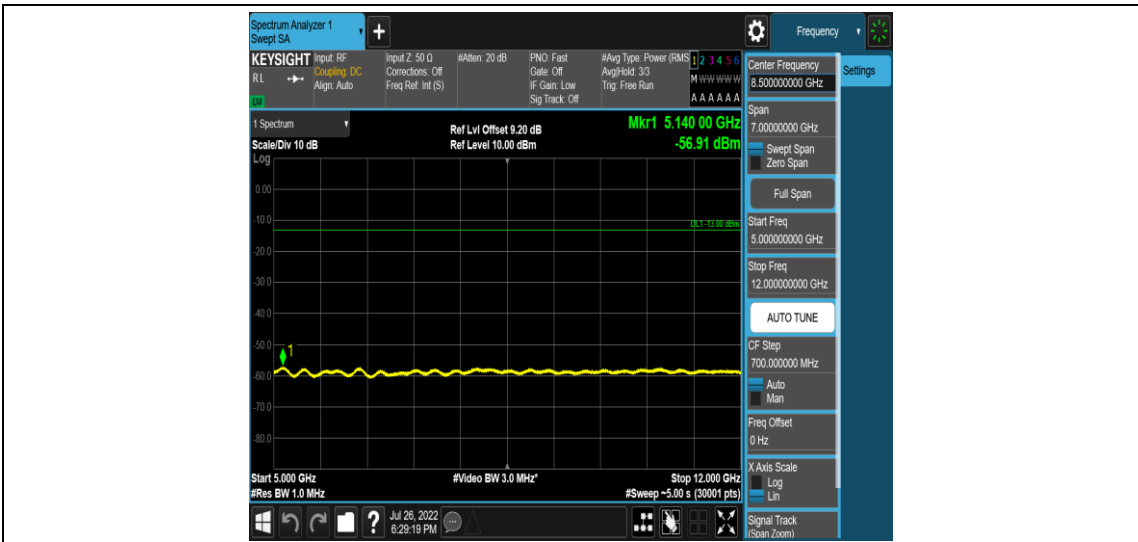
Band4-Stand-Alone-NaN-QPSK-19951-12@0-15kHz-0.15-30-0.15~30MHz@-49.48dBm--23-PASS



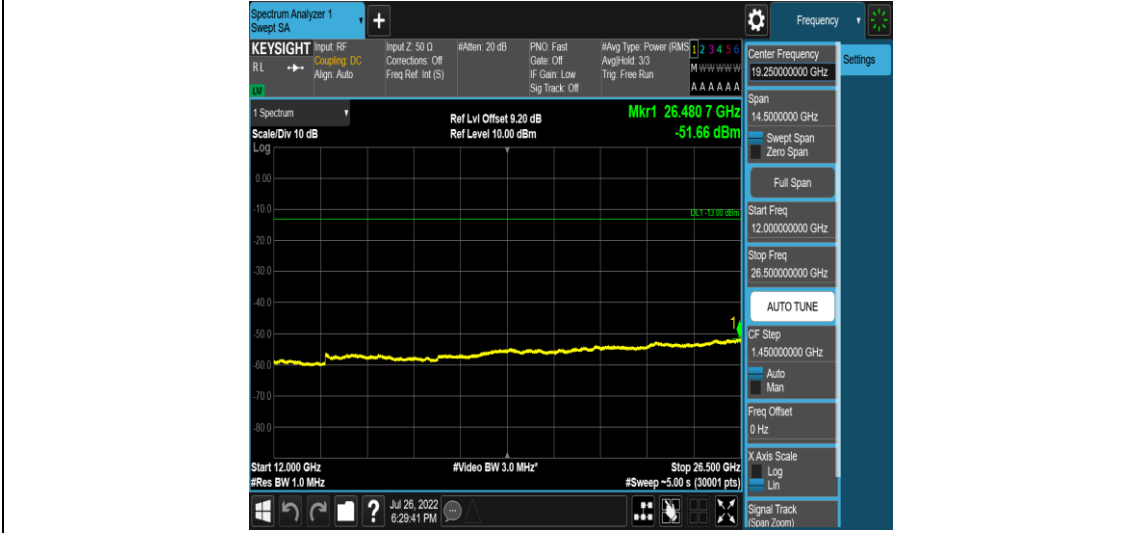
Band4-Stand-Alone-NaN-QPSK-19951-12@0-15kHz-30-1000-30~1000MHz@-32dBm--13-P ASS



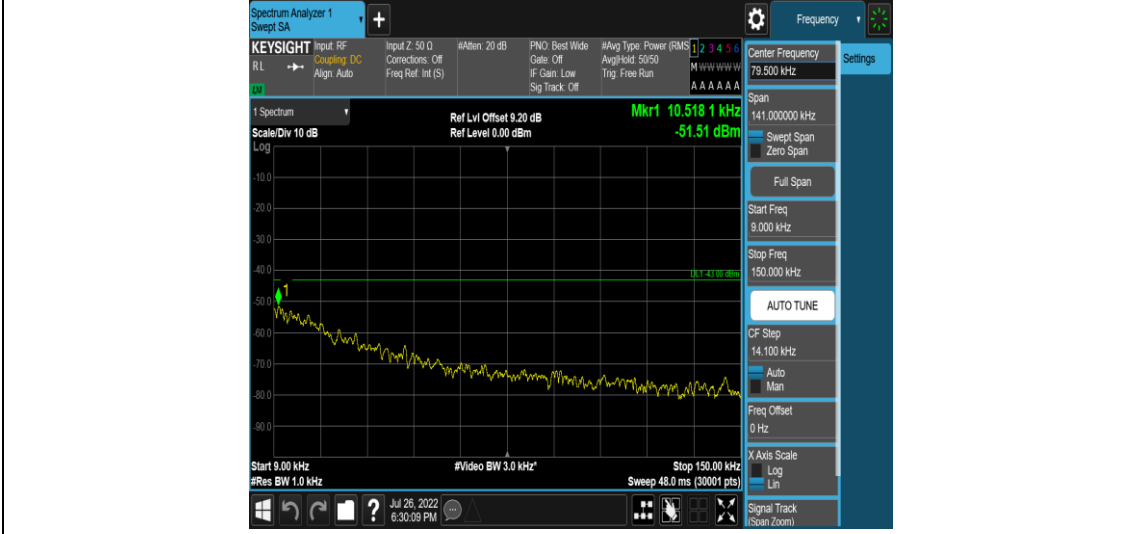
Band4-Stand-Alone-NaN-QPSK-19951-12@0-15kHz-1000-5000-1000~5000MHz@-35.9dBm --13-PASS



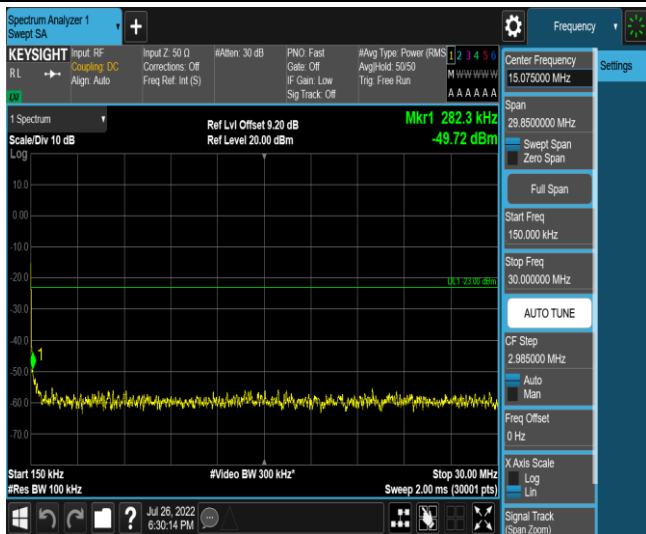
Band4-Stand-Alone-NaN-QPSK-19951-12@0-15kHz-5000-12000-5000~12000MHz@-56.91dBm--13-PASS



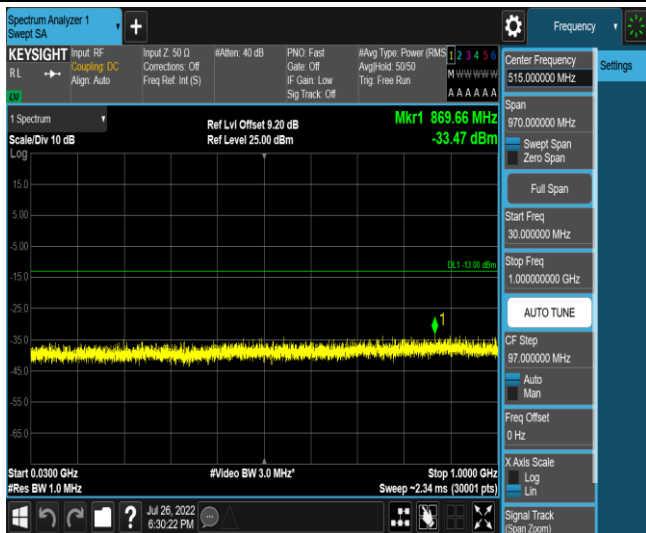
Band4-Stand-Alone-NaN-QPSK-19951-12@0-15kHz-12000-26500-12000~26500MHz@-51.66dBm--13-PASS



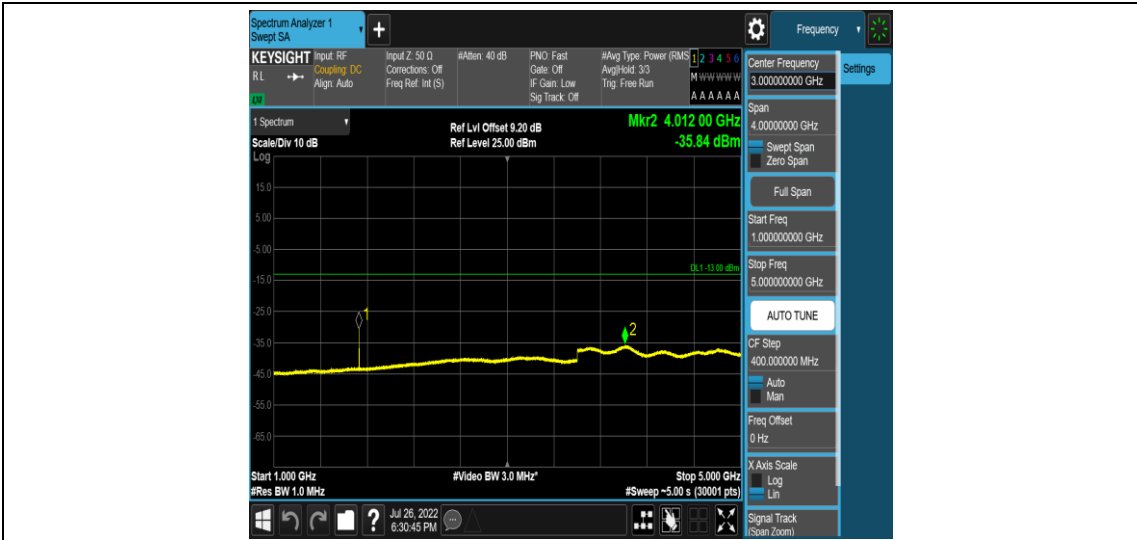
Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-51.51dB
m--43-PASS



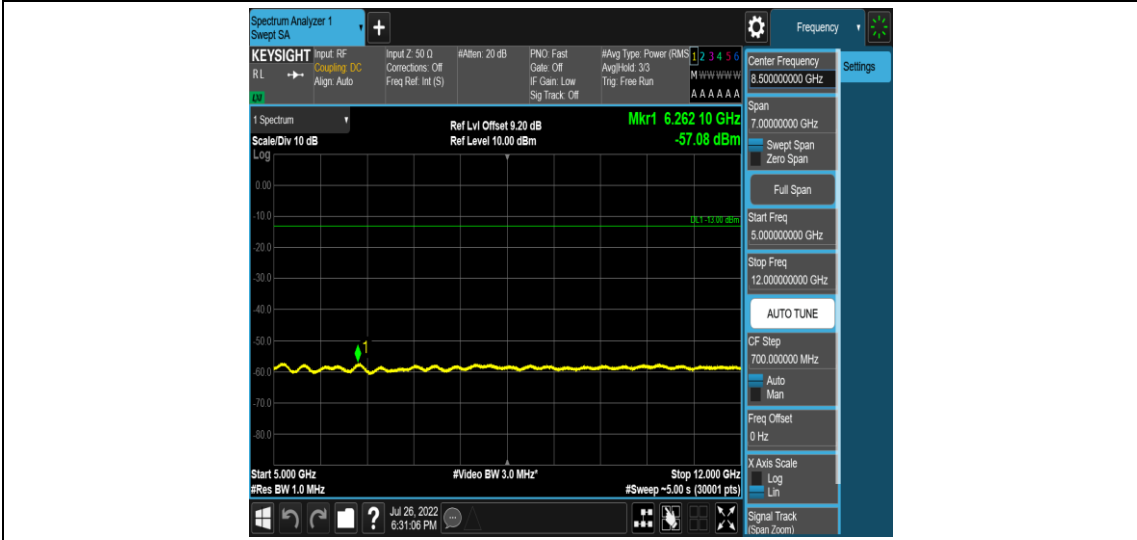
Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-0.15-30-0.15~30MHz@-49.72dBm--23-
PASS



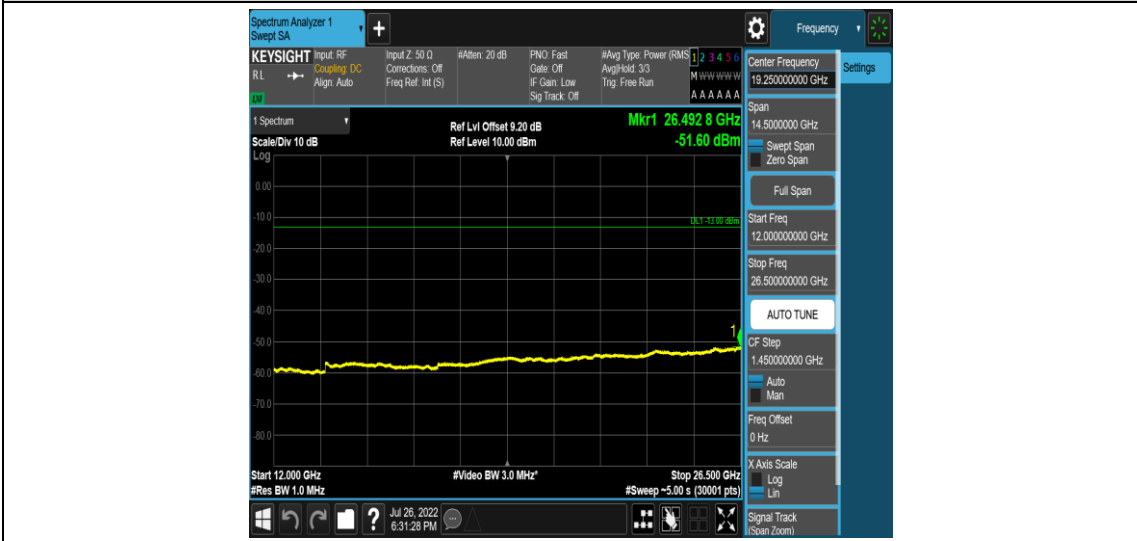
Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-30-1000-30~1000MHz@-33.47dBm--13
-PASS



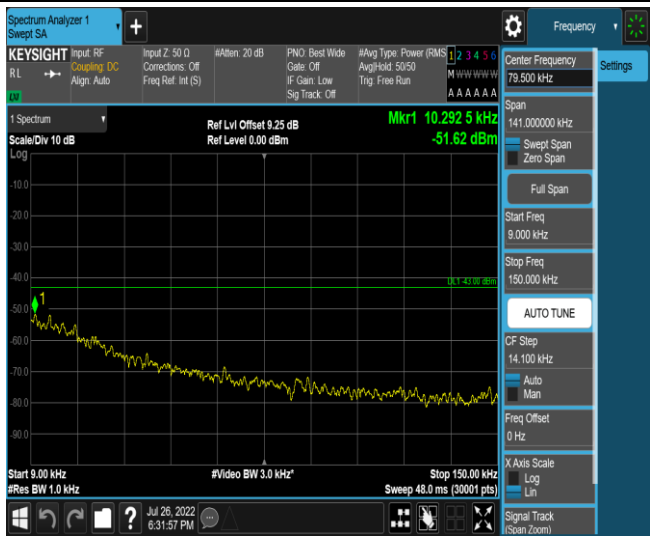
Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-1000-5000-1000~5000MHz@-35.84dB
m--13-PASS



Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-5000-12000-5000~12000MHz@-57.08d
Bm--13-PASS



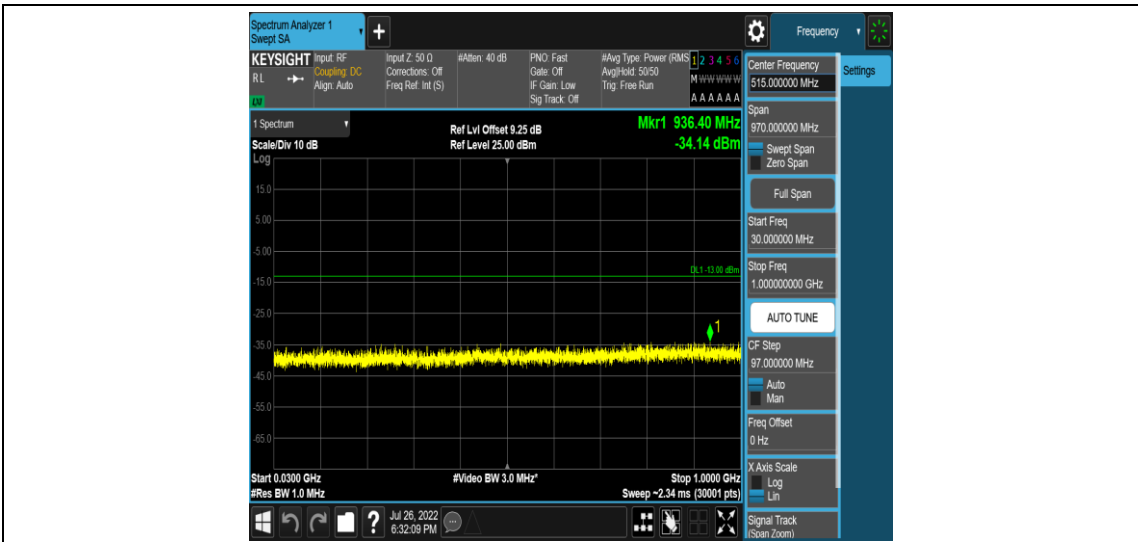
Band4-Stand-Alone-NaN-QPSK-20175-12@0-15kHz-12000-26500-12000~26500MHz@-51.6 dBm--13-PASS



Band4-Stand-Alone-NaN-QPSK-20399-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-51.62dBm--43-PASS



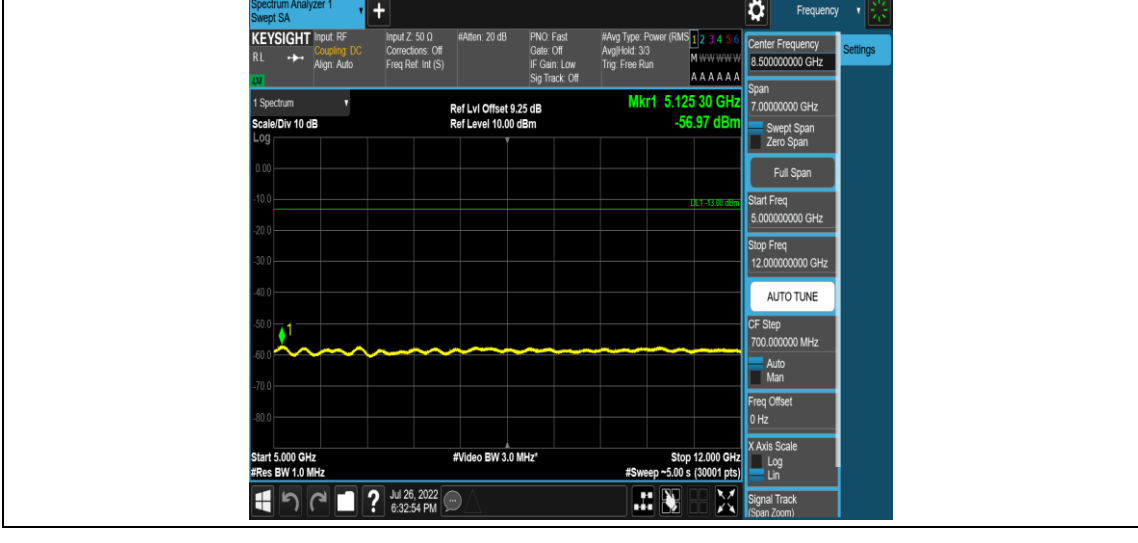
Band4-Stand-Alone-NaN-QPSK-20399-12@0-15kHz-0.15-30-0.15~30MHz@-50.08dBm--23-PASS

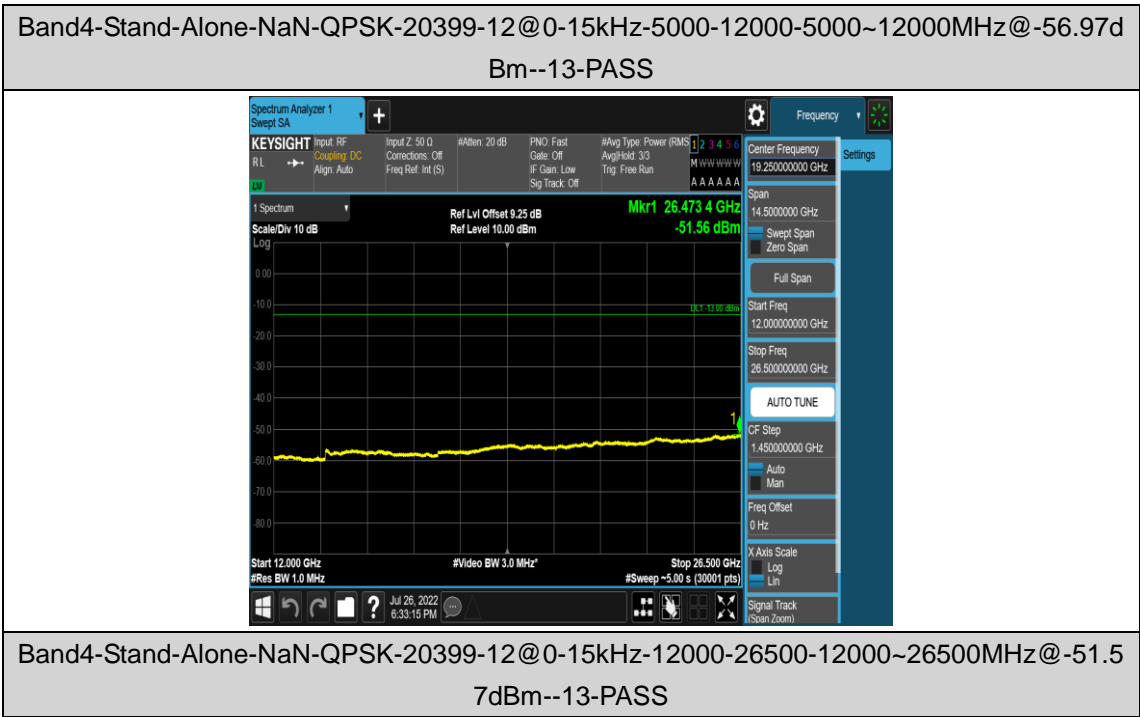


Band4-Stand-Alone-NaN-QPSK-20399-12@0-15kHz-30-1000-30~1000MHz@-34.14dBm--13
-PASS



Band4-Stand-Alone-NaN-QPSK-20399-12@0-15kHz-1000-5000-1000~5000MHz@-35.87dB
m--13-PASS





Appendix F: Frequency Stability for NB1

Test Result

Band	SCS	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	3.75kHz	QPSK	20175	1@0	VH	NT	-14.95	-0.008629	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@0	VL	NT	-15.66	-0.009039	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@0	VN	NT	-13.09	-0.007556	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	VH	NT	-14.48	-0.008358	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	VL	NT	-17.88	-0.010320	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	VN	NT	-17.22	-0.009939	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	VH	NT	-12.25	-0.007071	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	VL	NT	-14.69	-0.008479	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	VN	NT	-15.09	-0.008710	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	VH	NT	-15.25	-0.008802	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	VL	NT	-19.94	-0.011509	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	VN	NT	-15.66	-0.009039	±2.5	PASS

Temperature										
Band	SCS	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	3.75kHz	QPSK	20175	1@0	NV	-30	-15.12	-0.00873	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@0	NV	-20	-16.28	-0.0094	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@0	NV	0	-14.04	-0.0081	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	NV	10	-13.25	-0.00765	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	NV	20	-11.87	-0.00685	±2.5	PASS
Band4	3.75kHz	QPSK	20175	1@47	NV	30	-15.32	-0.00884	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	NV	-30	-12.14	-0.00701	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	NV	-20	-14.35	-0.00828	±2.5	PASS
Band4	15kHz	QPSK	20175	1@0	NV	0	-15.11	-0.00872	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	NV	10	-13.47	-0.00777	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	NV	20	-15.78	-0.00911	±2.5	PASS
Band4	15kHz	QPSK	20175	1@11	NV	30	-14.41	-0.00832	±2.5	PASS