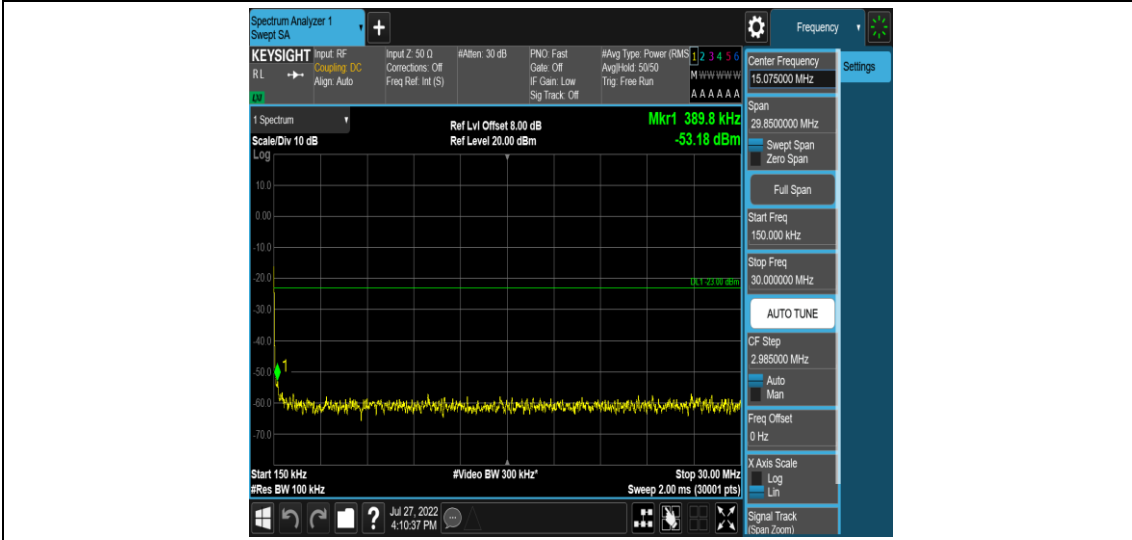
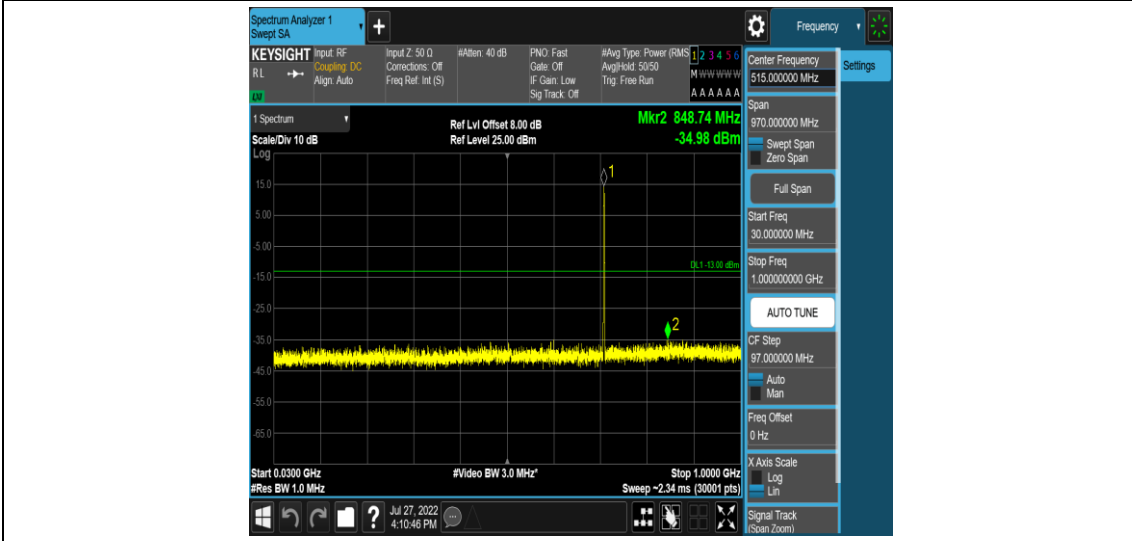


Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-0.009-0.15-0.009~0.15MHz @ -52.06dB m--43-PASS



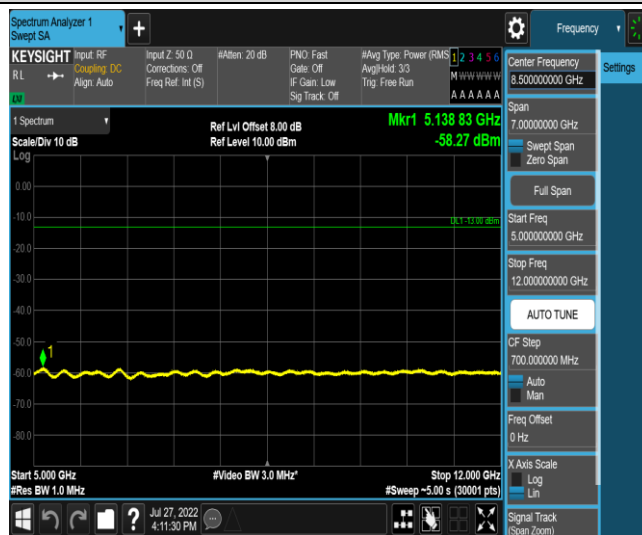
Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-0.15-30-0.15~30MHz @ -53.18dBm--23 -PASS



Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-30-1000-30~1000MHz@-34.98dBm--1
3-PASS



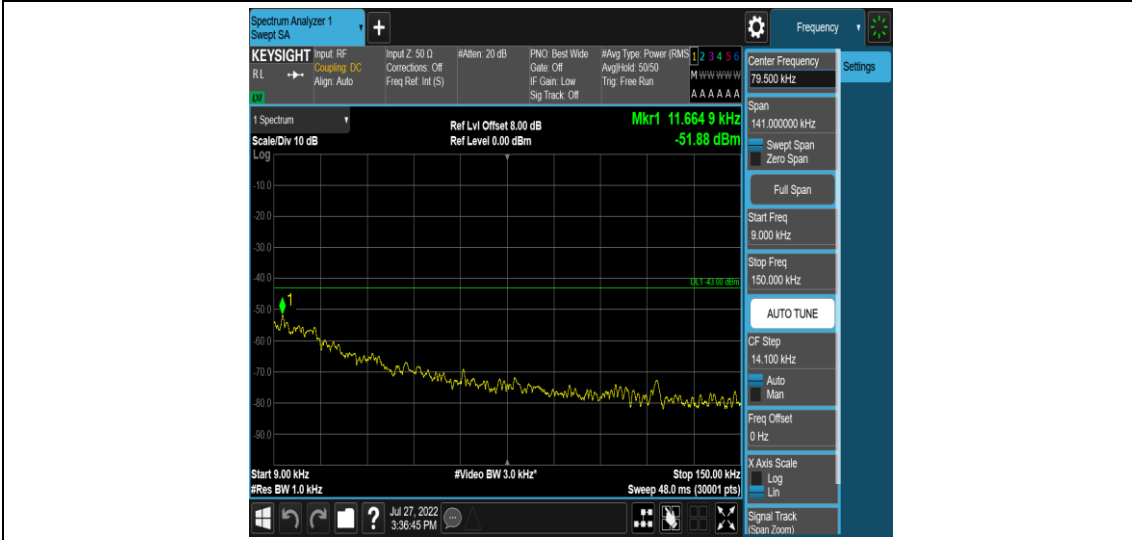
Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-1000-5000-1000~5000MHz@-37.1dB
m--13-PASS



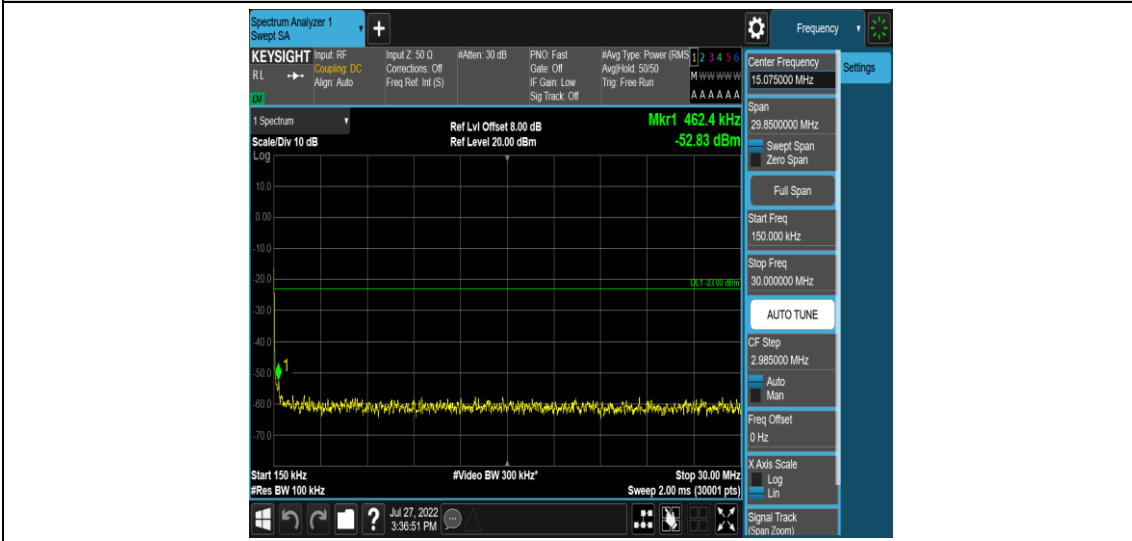
Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-5000-12000-5000~12000MHz@-58.27
dBm--13-PASS



Band12-Stand-Alone-NaN-BPSK-23179-1 @ 11-15kHz-12000-26500-12000~26500MHz @ -52.82dBm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23011-12 @ 0-15kHz-0.009-0.15-0.009~0.15MHz @ -51.88dBm--43-PASS



Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-0.15-30-0.15~30MHz@-52.83dBm--23
-PASS



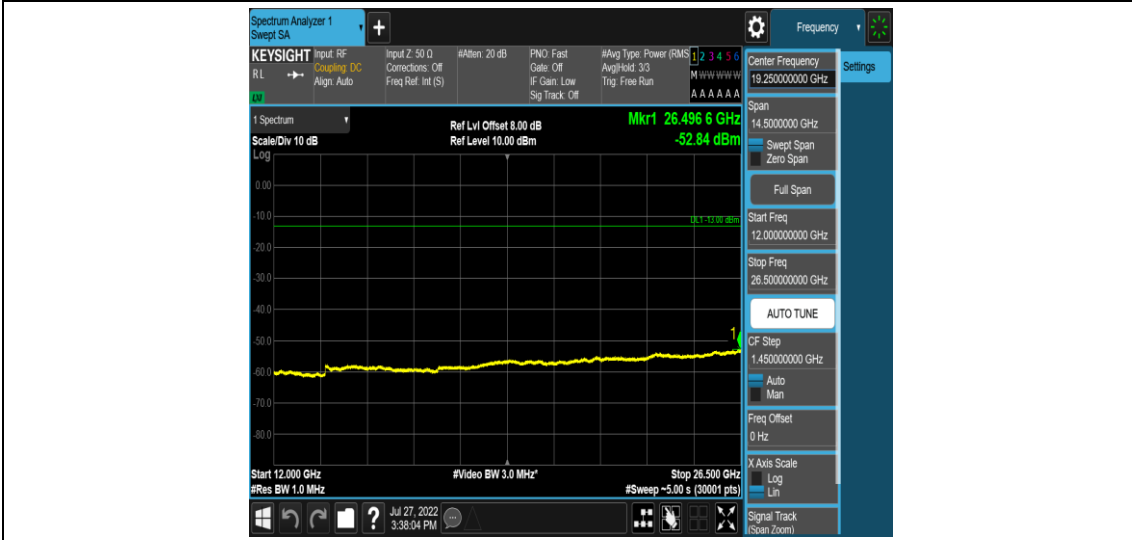
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-30-1000-30~1000MHz@-34.75dBm--1
3-PASS



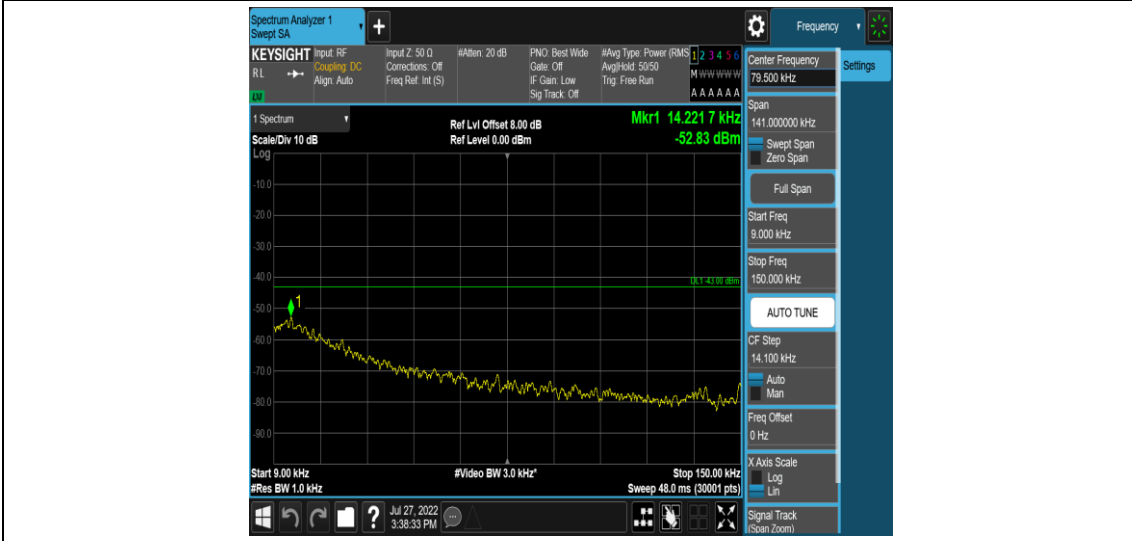
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-1000-5000-1000~5000MHz@-37.34dB
m--13-PASS



Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-5000-12000-5000~12000MHz@-58.31 dBm--13-PASS



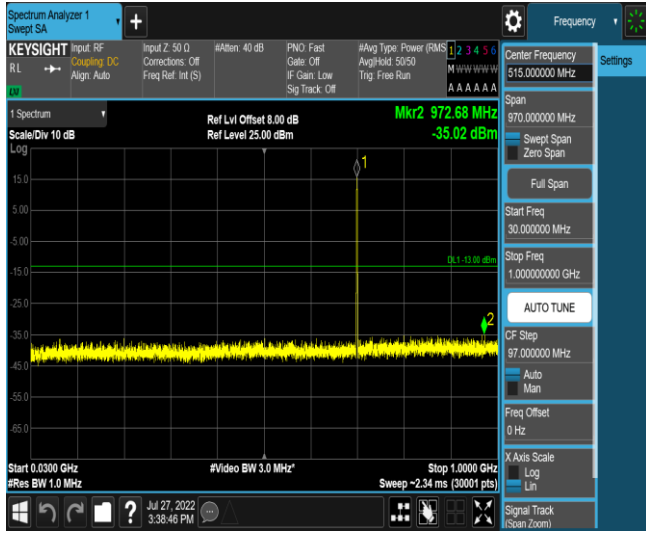
Band12-Stand-Alone-NaN-QPSK-23011-12@0-15kHz-12000-26500-12000~26500MHz@-52.84dBm--13-PASS



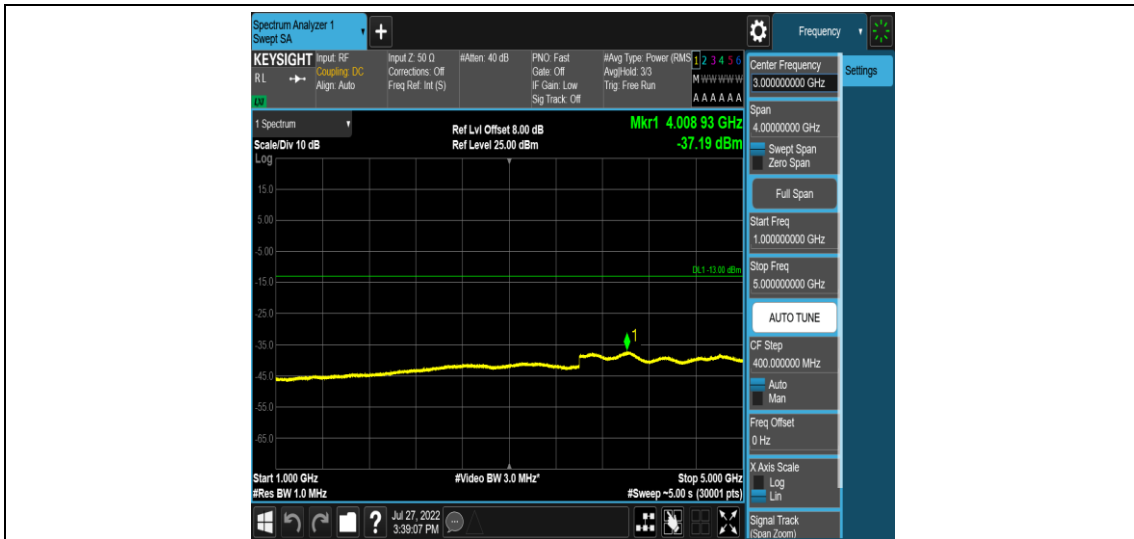
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-52.83dBm--43-PASS



Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-0.15-30-0.15~30MHz@-52.16dBm--23-PASS



Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-30-1000-30~1000MHz@-35.02dBm--13-PASS



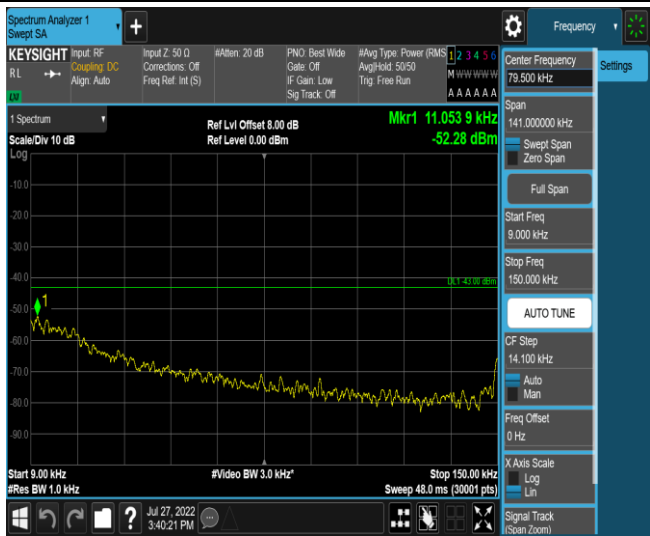
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-1000-5000-1000~5000MHz@-37.19d
Bm--13-PASS



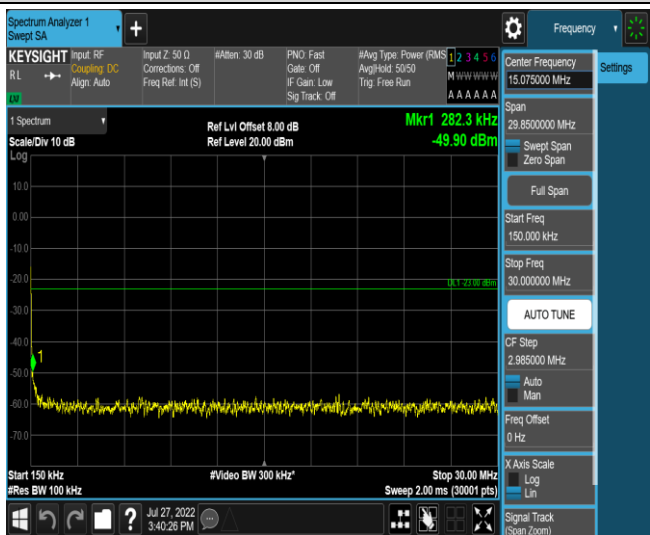
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-5000-12000-5000~12000MHz@-58.4d
Bm--13-PASS



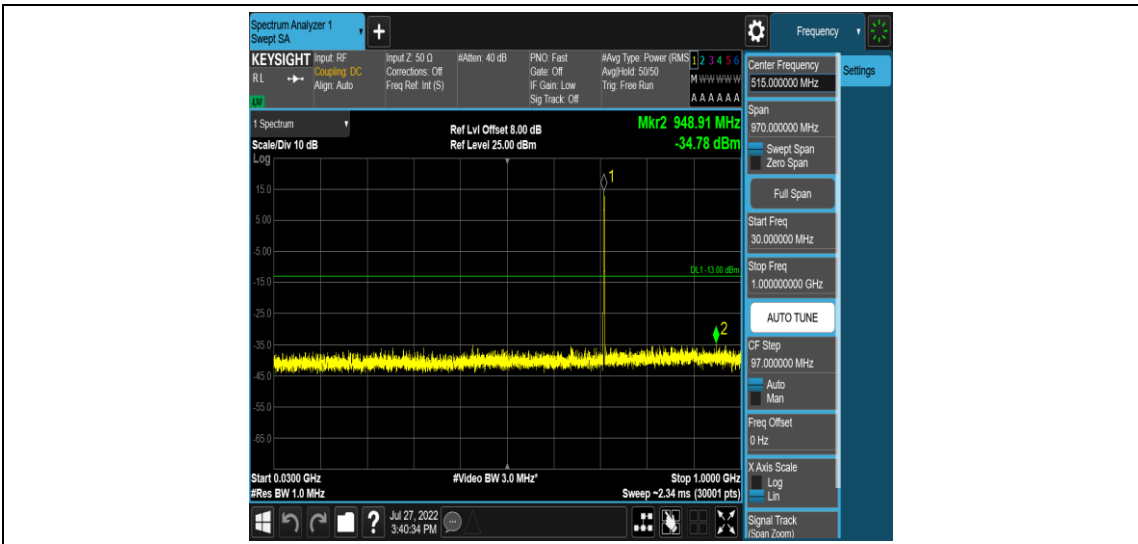
Band12-Stand-Alone-NaN-QPSK-23095-12@0-15kHz-12000-26500-12000~26500MHz@-52.71dBm--13-PASS



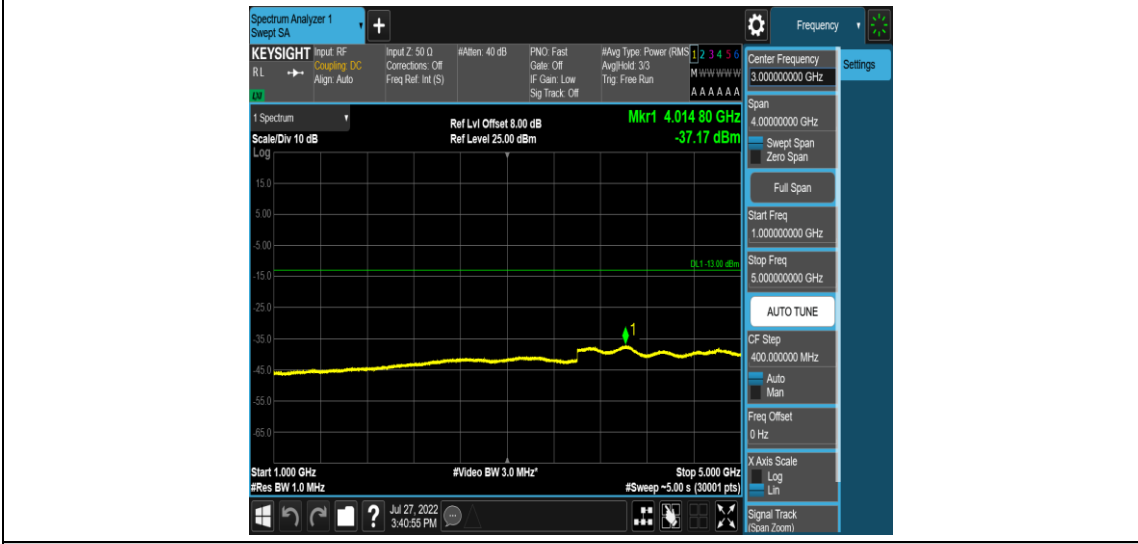
Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-52.28dBm--43-PASS



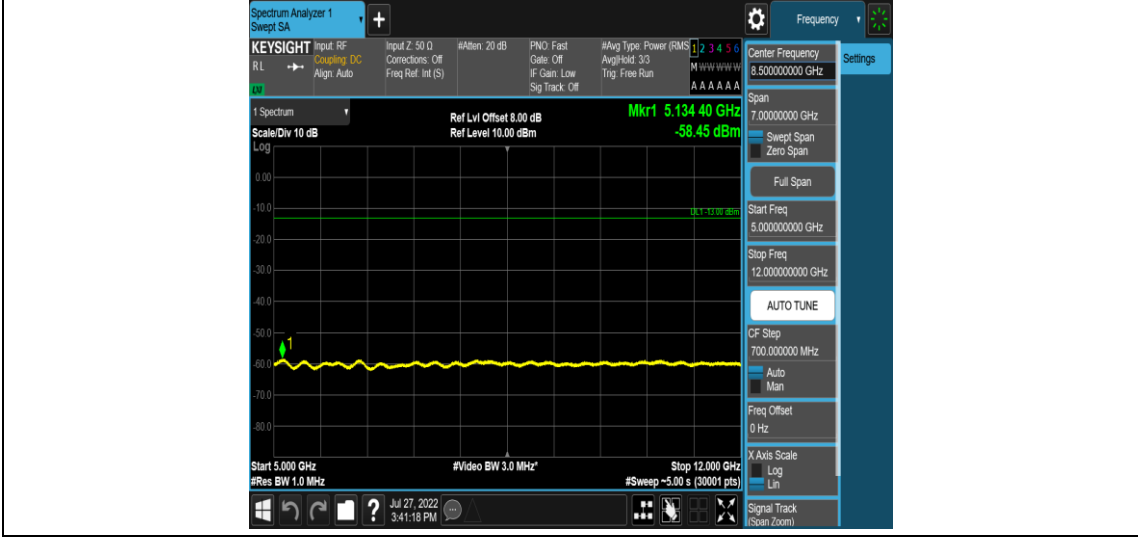
Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-0.15-30-0.15~30MHz@-49.9dBm--23-PASS



Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-30-1000-30~1000MHz@-34.78dBm--1
3-PASS



Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-1000-5000-1000~5000MHz@-37.17d
Bm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-5000-12000-5000~12000MHz@-58.45 dBm--13-PASS



Band12-Stand-Alone-NaN-QPSK-23179-12@0-15kHz-12000-26500-12000~26500MHz@-52.89dBm--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
Band12	3.75kHz	QPSK	23095	1@0	VH	NT	3.39	0.004792	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@0	VL	NT	3.78	0.005343	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@0	VN	NT	3.53	0.004989	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	VH	NT	2.89	0.004085	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	VL	NT	3.23	0.004565	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	VN	NT	3.43	0.004848	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	VH	NT	9.24	0.013060	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	VL	NT	7.88	0.011138	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	VN	NT	7.85	0.011095	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	VH	NT	9.23	0.013046	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	VL	NT	8.17	0.011548	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	VN	NT	9.13	0.012905	±2.5	PASS

Temperature										
Band	SCS	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	3.75kHz	QPSK	23095	1@0	NV	-30	4.98	0.007039	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@0	NV	-20	5.12	0.007237	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@0	NV	0	3.57	0.005046	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	NV	10	3.69	0.005216	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	NV	20	4.05	0.005724	±2.5	PASS
Band12	3.75kHz	QPSK	23095	1@47	NV	30	4.15	0.005866	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	NV	-30	4.28	0.006049	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	NV	-20	3.54	0.005004	±2.5	PASS
Band12	15kHz	QPSK	23095	1@0	NV	0	3.71	0.005244	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	NV	10	3.05	0.004311	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	NV	20	3.87	0.00547	±2.5	PASS
Band12	15kHz	QPSK	23095	1@11	NV	30	3.04	0.004297	±2.5	PASS