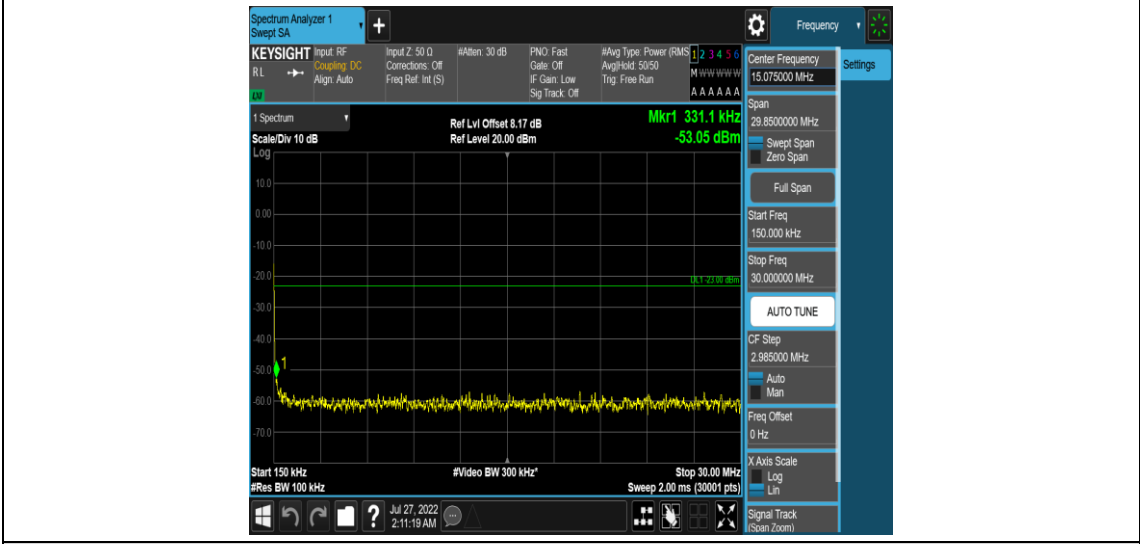
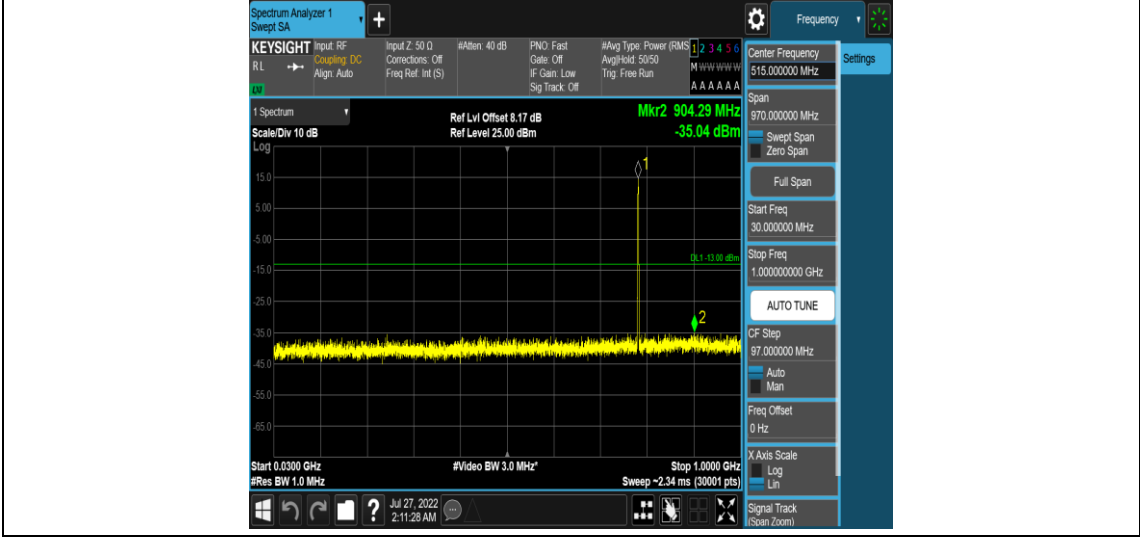


Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-0.009-0.15-0.009~0.15MHz @ -53.45dB m--43-PASS



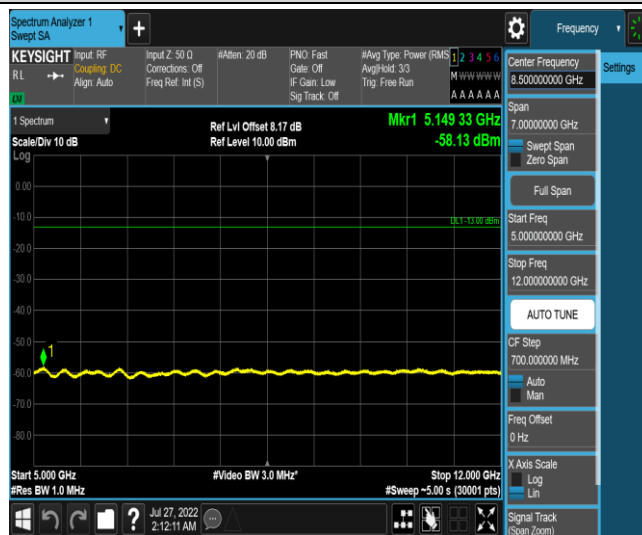
Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-0.15-30-0.15~30MHz @ -53.05dBm--23 -PASS



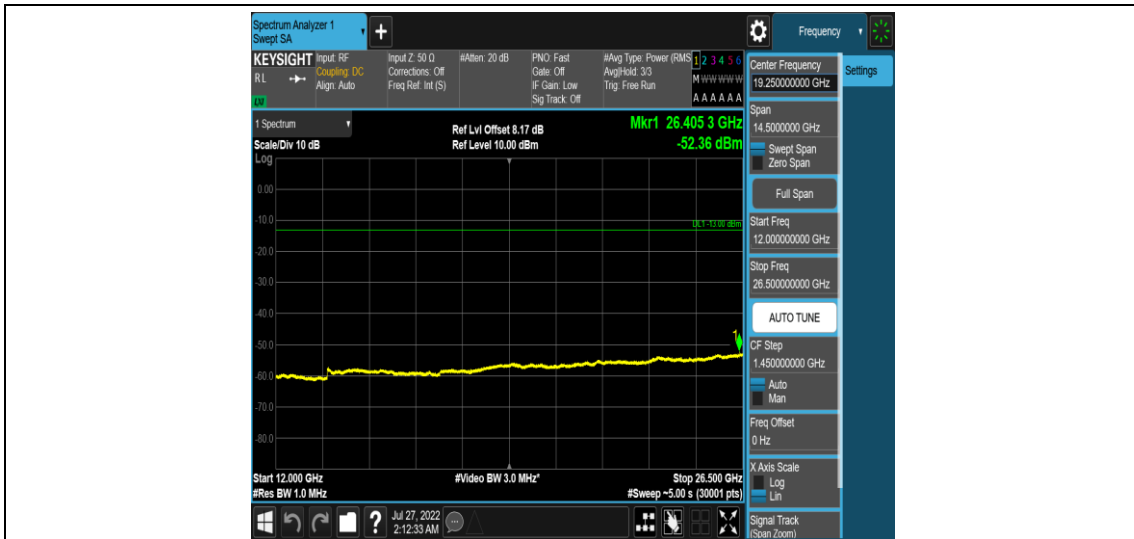
Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-30-1000-30~1000MHz@-35.04dBm--1
3-PASS



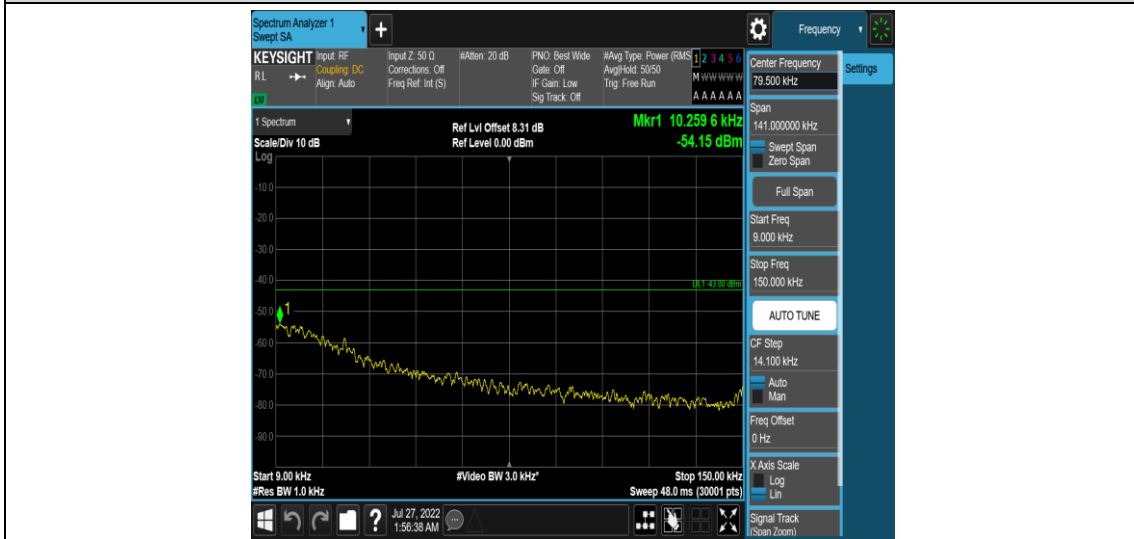
Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-1000-5000-1000~5000MHz@-36.95dB
m--13-PASS



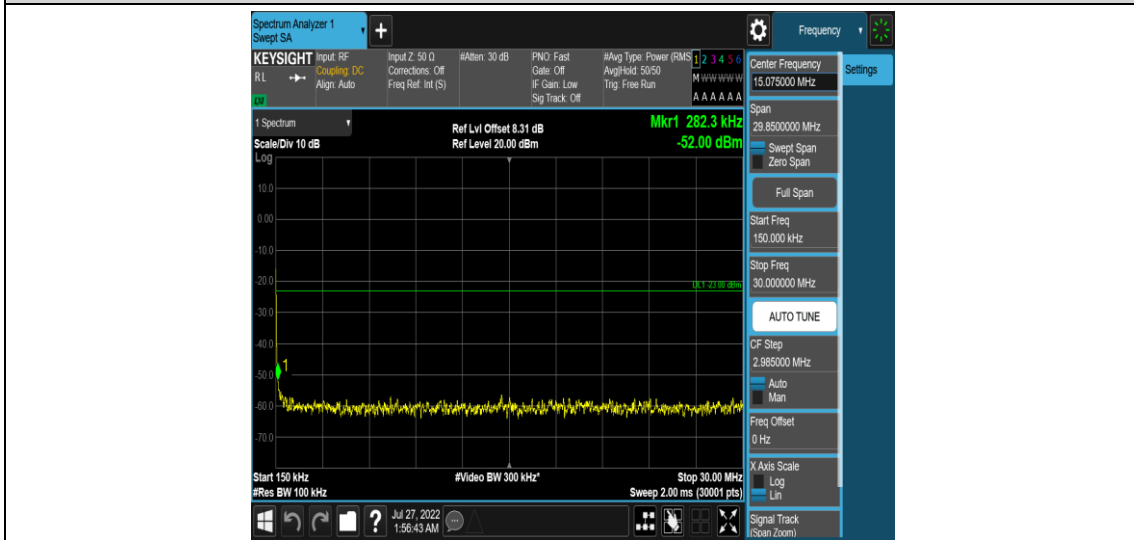
Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-5000-12000-5000~12000MHz@-58.13
dBm--13-PASS



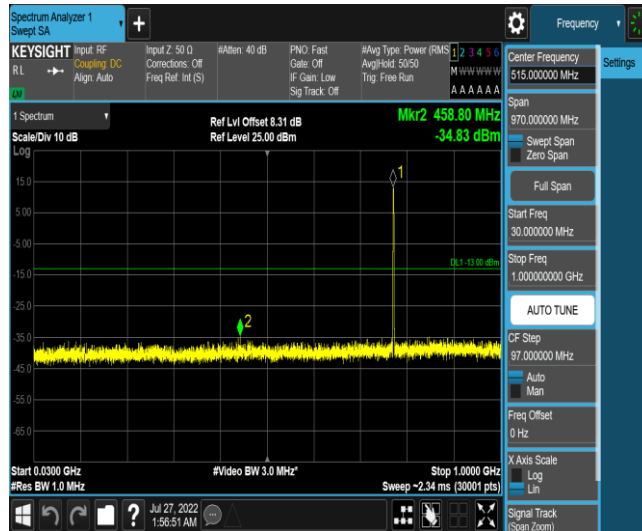
Band13-Stand-Alone-NaN-BPSK-23279-1 @ 11-15kHz-12000-26500-12000~26500MHz@-52.36dBm--13-PASS



Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-54.15 dBm--43-PASS



Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-0.15-30-0.15~30MHz@-52dBm--23-P
ASS



Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-30-1000-30~1000MHz@-34.83dBm--1
3-PASS



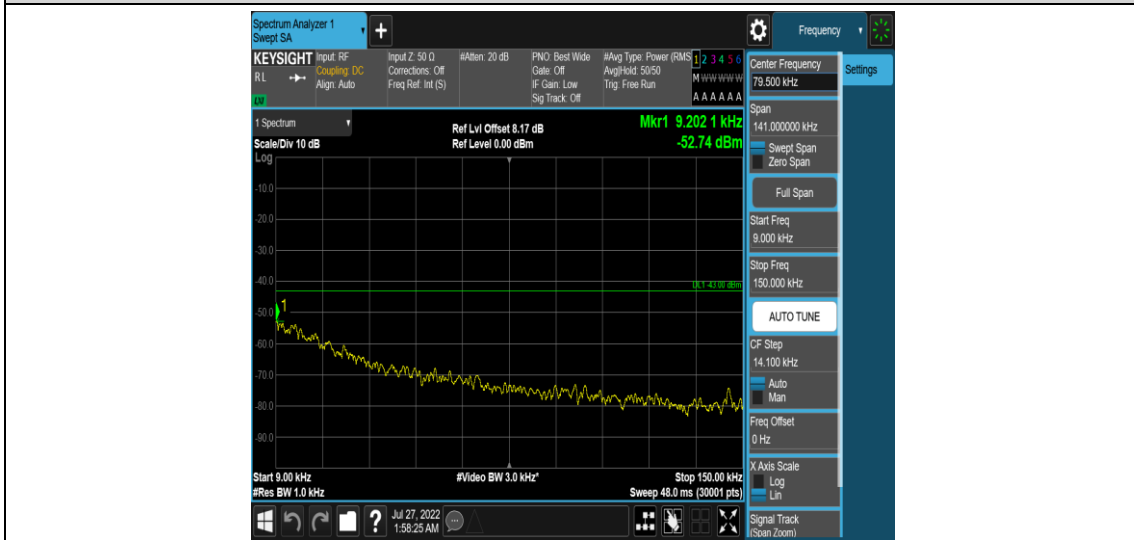
Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-1000-5000-1000~5000MHz@-36.91d
Bm--13-PASS



Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-5000-12000-5000~12000MHz@-58.1d
Bm--13-PASS



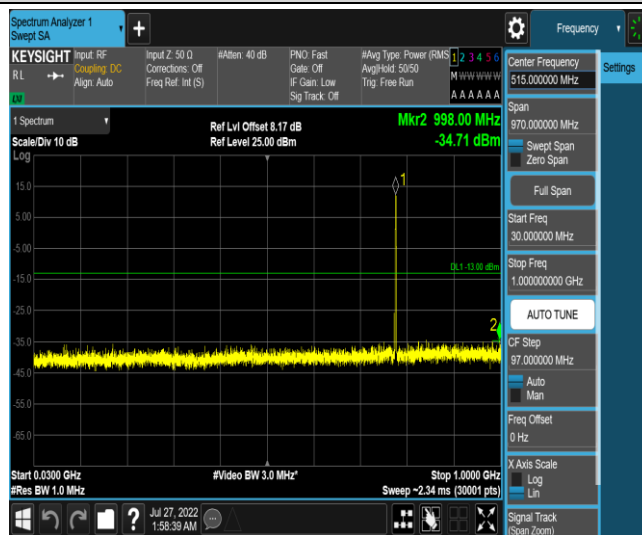
Band13-Stand-Alone-NaN-QPSK-23181-12@0-15kHz-12000-26500-12000~26500MHz@-52.
52dBm--13-PASS



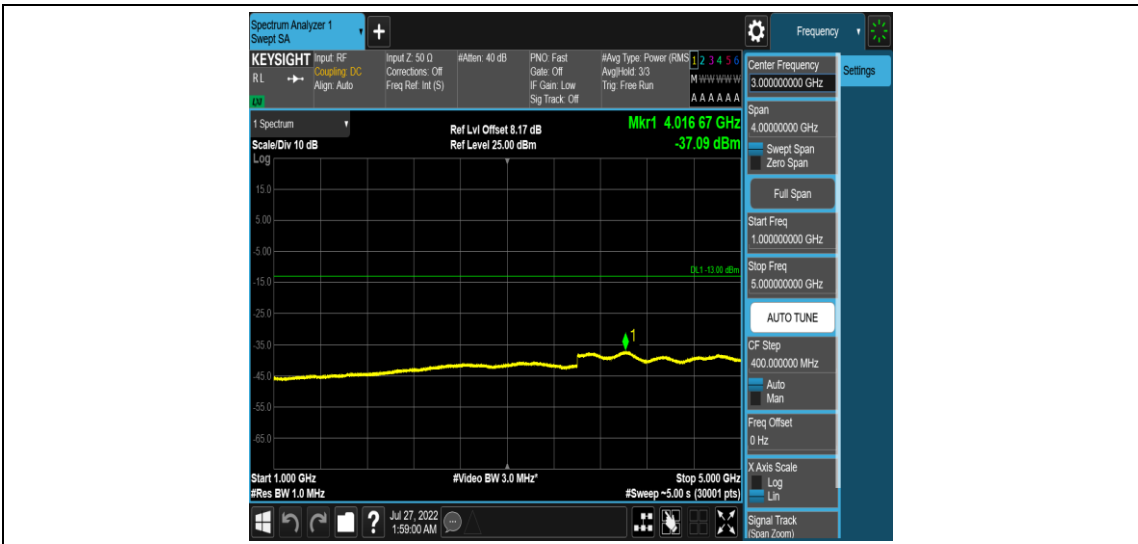
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-52.74d
Bm--43-PASS



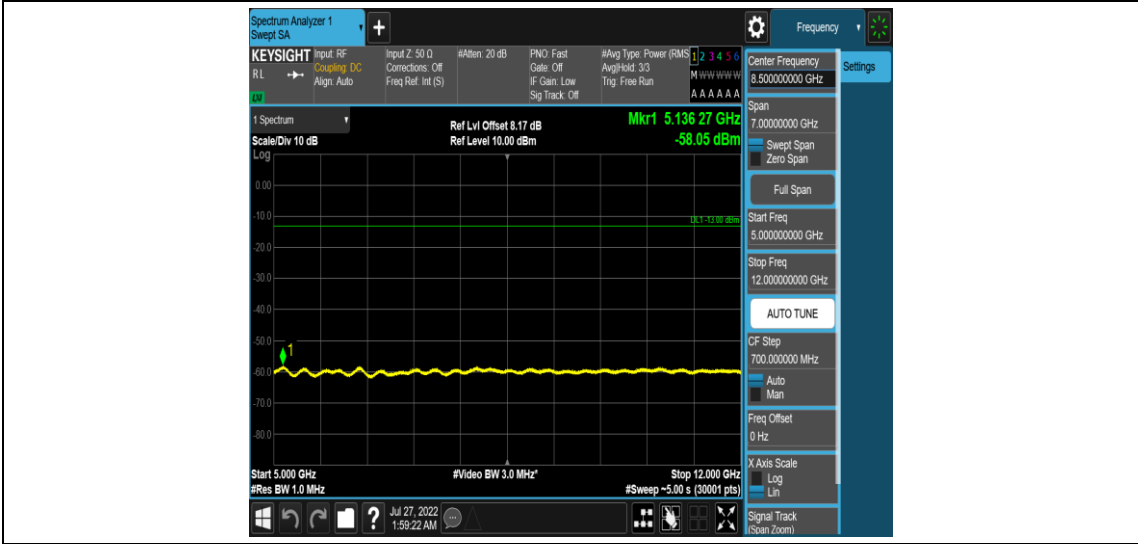
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-0.15-30-0.15~30MHz@-51.71dBm--23
-PASS



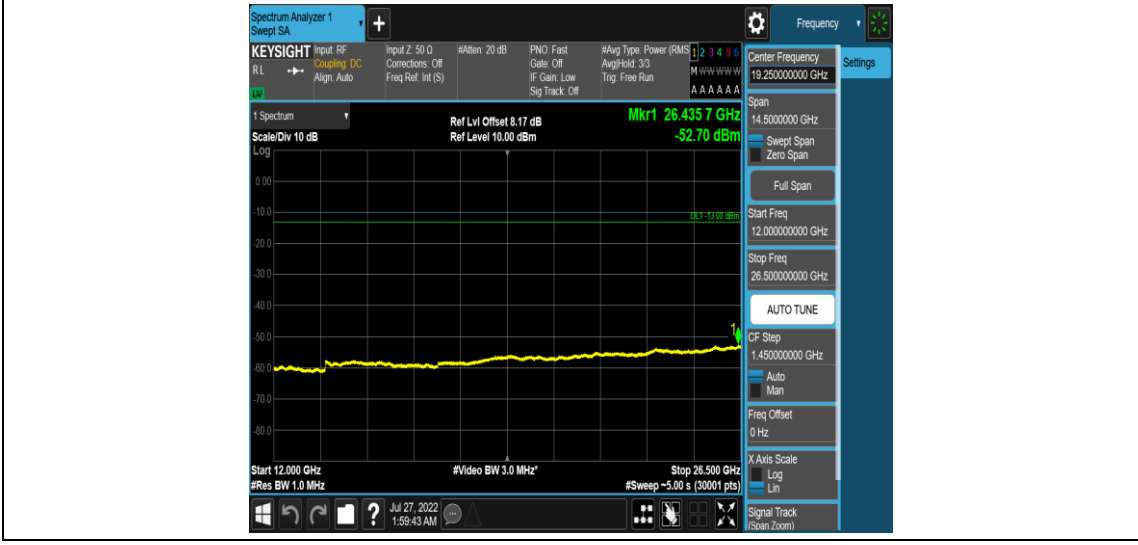
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-30-1000-30~1000MHz@-34.71dBm--1
3-PASS



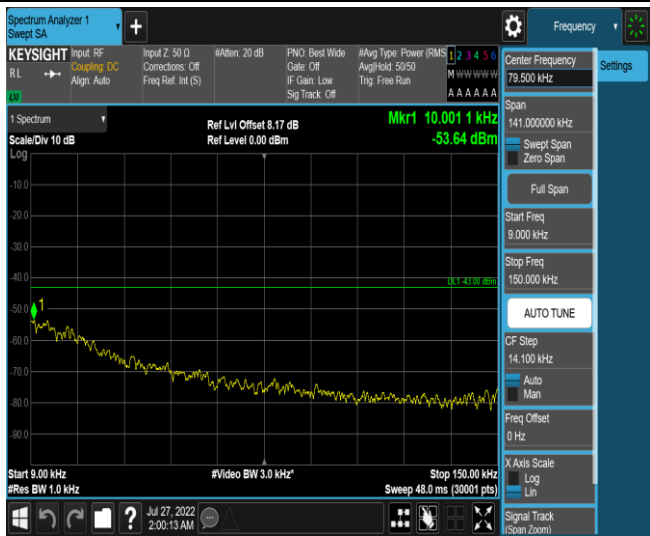
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-1000-5000-1000~5000MHz@-37.09d
Bm--13-PASS



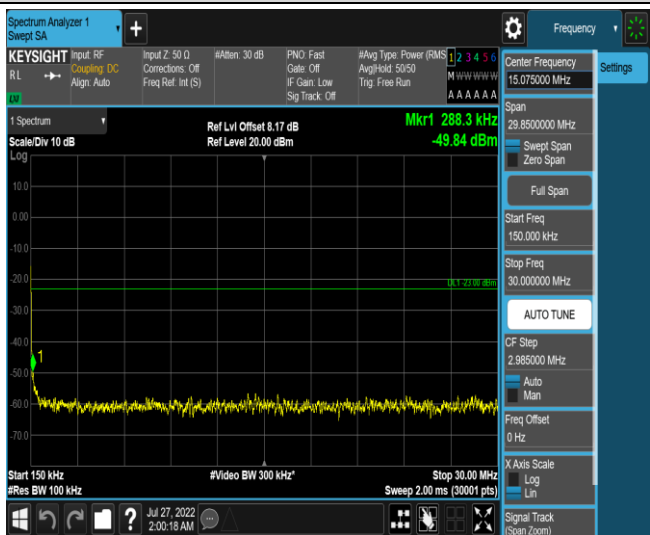
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-5000-12000-5000~12000MHz@-58.05
dBm--13-PASS



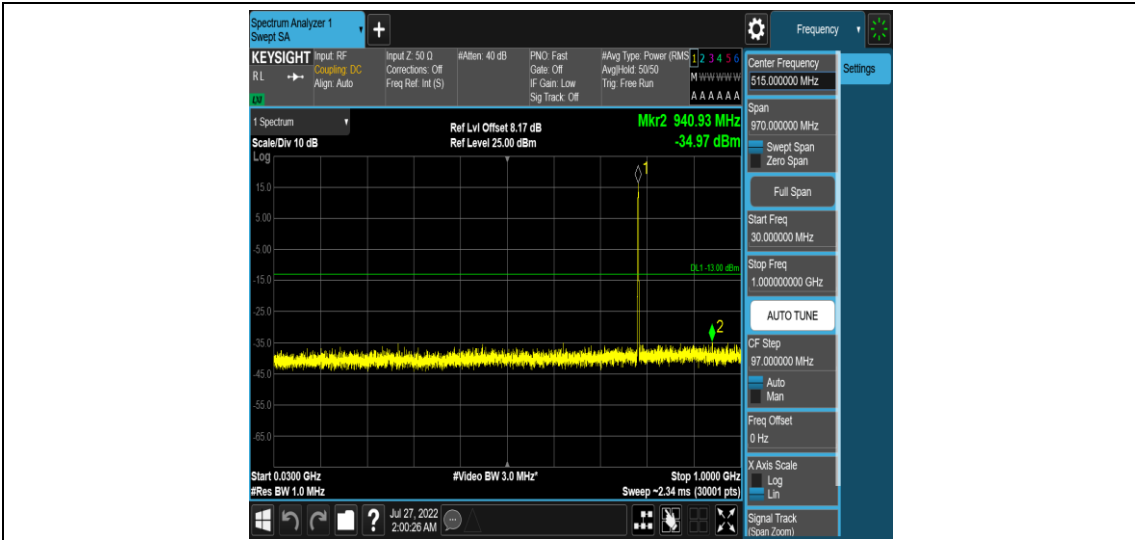
Band13-Stand-Alone-NaN-QPSK-23230-12@0-15kHz-12000-26500-12000~26500MHz@-52.7dBm--13-PASS



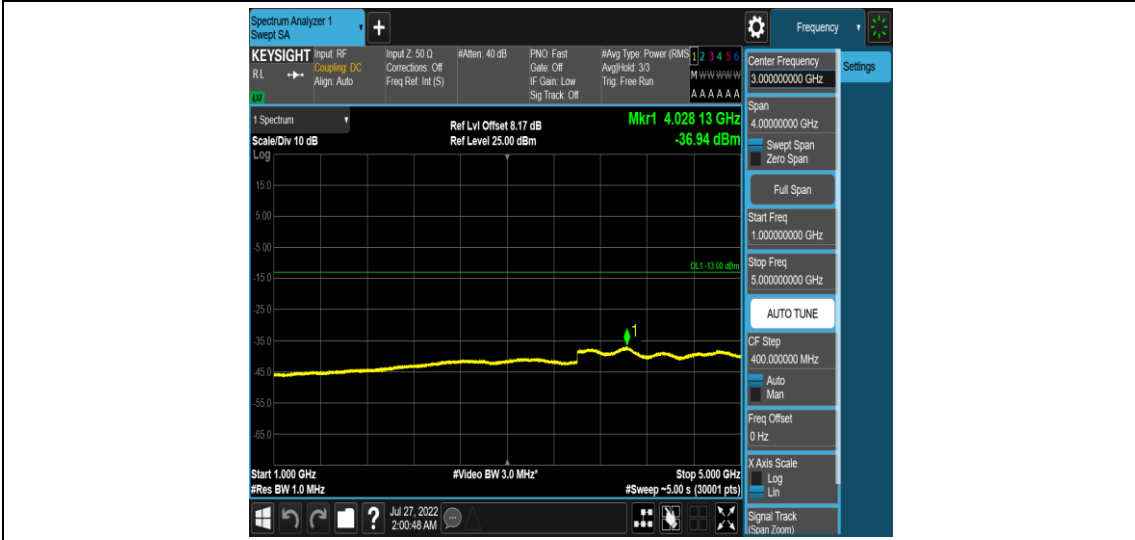
Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-53.64dBm--43-PASS



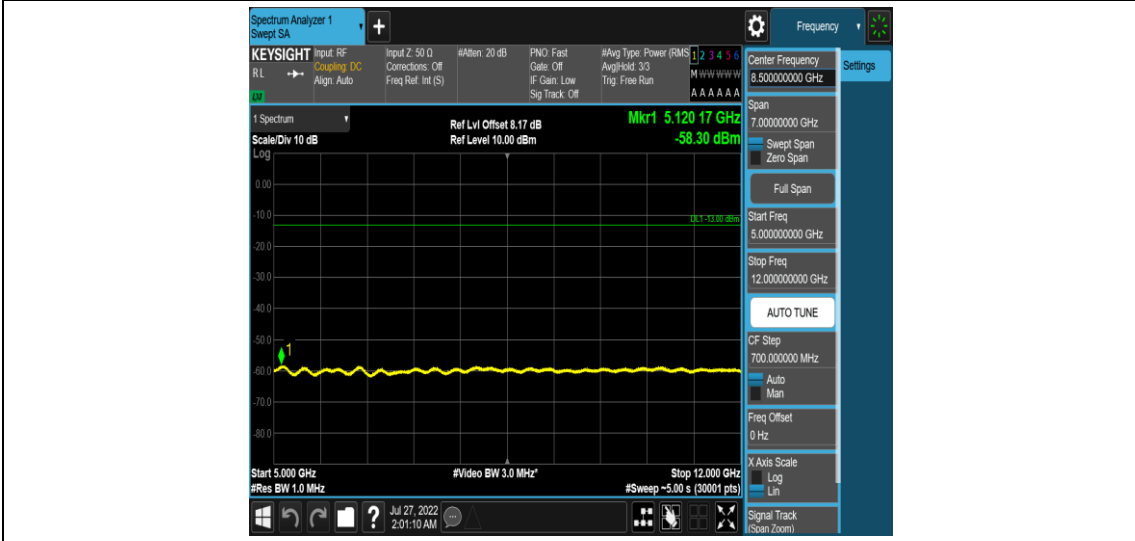
Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-0.15-30-0.15~30MHz@-49.84dBm--23-PASS

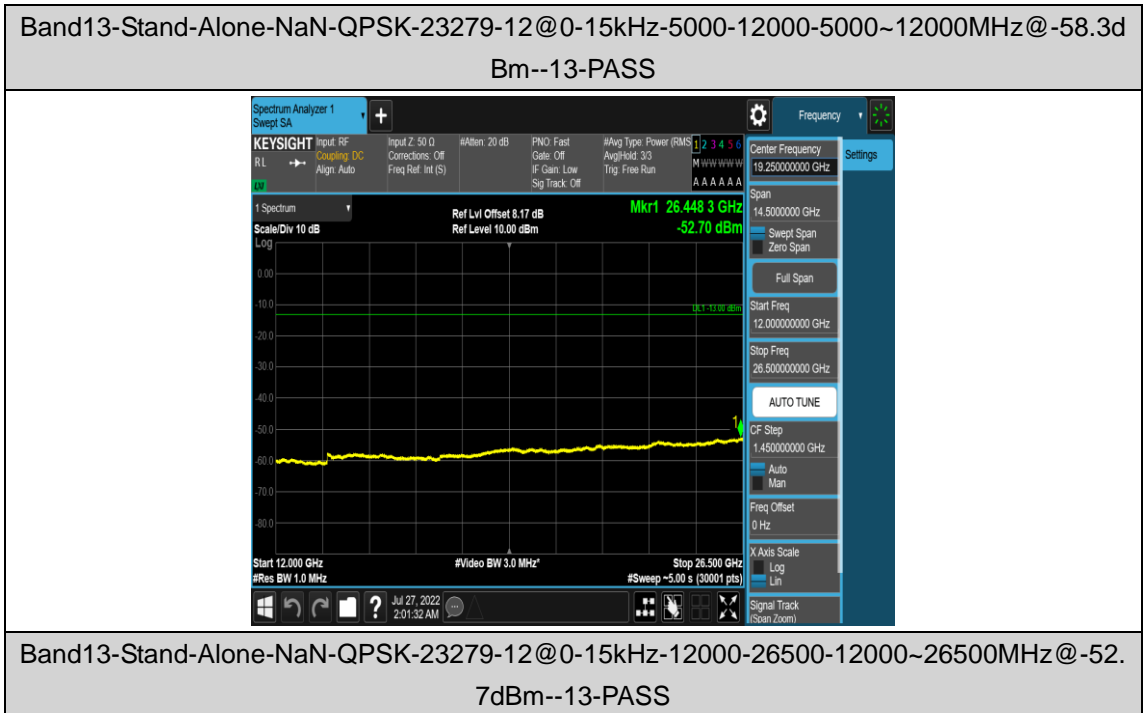


Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-30-1000-30~1000MHz@-34.97dBm--1
3-PASS



Band13-Stand-Alone-NaN-QPSK-23279-12@0-15kHz-1000-5000-1000~5000MHz@-36.94d
Bm--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
Band13	3.75kHz	QPSK	23230	1@0	VH	NT	-5.92	-0.007570	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@0	VL	NT	-3.78	-0.004834	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@0	VN	NT	-4.08	-0.005217	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VH	NT	-1.93	-0.002468	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VL	NT	-4.42	-0.005652	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VN	NT	-4.75	-0.006074	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VH	NT	-9.68	-0.012379	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VL	NT	-9.84	-0.012583	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VN	NT	-10.50	-0.013427	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VH	NT	-9.96	-0.012737	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VL	NT	-8.60	-0.010997	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VN	NT	-8.71	-0.011138	±2.5	PASS

Temperature										
Band	SCS	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	3.75kHz	QPSK	23230	1@0	VH	-30	-5.98	-0.00765	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@0	VL	-20	-7.12	-0.00910	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@0	VN	0	-6.24	-0.00798	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VH	10	-5.42	-0.00693	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VL	20	-6.64	-0.00849	±2.5	PASS
Band13	3.75kHz	QPSK	23230	1@47	VN	30	-7.54	-0.00964	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VH	-30	-6.31	-0.00807	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VL	-20	-7.05	-0.00902	±2.5	PASS
Band13	15kHz	QPSK	23230	1@0	VN	0	-6.53	-0.00835	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VH	10	-6.12	-0.00783	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VL	20	-5.93	-0.00758	±2.5	PASS
Band13	15kHz	QPSK	23230	1@11	VN	30	-6.97	-0.00891	±2.5	PASS