FCC LTE NB-IOT Band 2 Test Data

General Description of EUT	
Product Name:	AirSuite Glance LTE
Test Model:	ASCM1420
Sample ID:	C-202305-0005-01-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report **TBR-C-202305-0005-81.** The report only show the worst case data.	

Contents

FCC LTE NB-IOT Band 2 Test Data 1
1: Conducted Power Data for NB1 3
1.1 Test Result 3
2: Peak-to-Average Ratio(CCDF) for NB1 4
2.1 Test Result 4
2.2 Test Graphs 5
3: Emission Bandwidth for NB1 9
3.1 Test Result 9
3.2 Test Graphs 10
4: Band Edge for NB1 16
4.1 Test Result 16
4.2 Test Graphs 17
5: Conducted Spurious Emission for NB1 24
5.1 Test Result 24
5.2 Test Graphs 30
6: Frequency Stability for NB1 50
6.1 Test Result 50

1: Conducted Power Data for NB1

1.1 Test Result

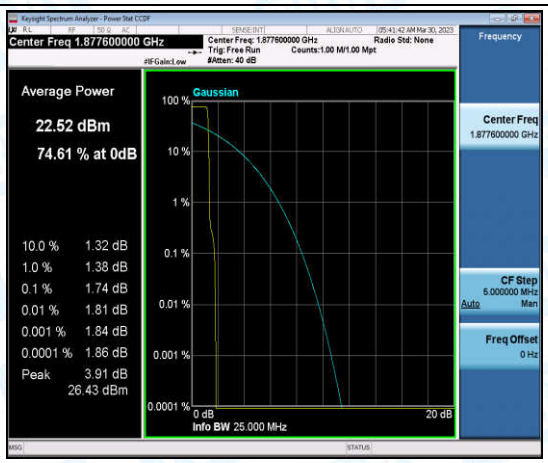
Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	BPSK	18601	1@0	23.66	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18601	1@47	23.64	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18876	1@0	23.39	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18876	1@47	23.34	PASS
Band2	Stand-Alone	3.75kHz	BPSK	19199	1@0	23.49	PASS
Band2	Stand-Alone	3.75kHz	BPSK	19199	1@47	23.47	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	23.57	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	23.60	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	23.38	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	23.32	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	23.50	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	23.47	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	23.73	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	23.73	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	3@3	23.64	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	23.46	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	23.51	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	3@3	23.47	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	23.50	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	23.48	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	3@3	23.50	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	1@0	23.77	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	1@11	23.59	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	3@3	23.61	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	23.54	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	23.58	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	3@3	23.42	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	1@0	23.58	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	1@11	23.57	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	3@3	23.57	PASS

2: Peak-to-Average Ratio(CCDF) for NB1

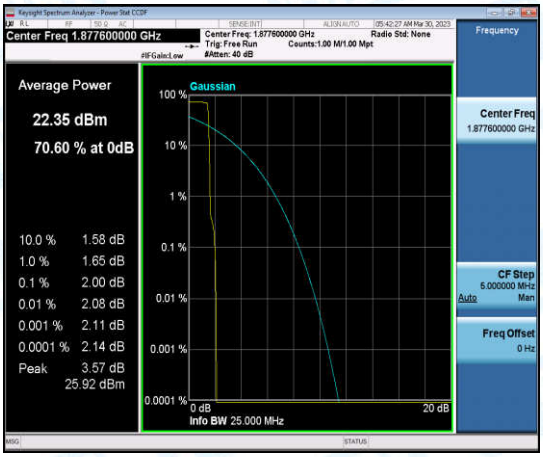
2.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	BPSK	18876	1@0	1.74	<=13	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18876	1@47	2	<=13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	2.62	<=13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	2.13	<=13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	3.86	<=13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	3.99	<=13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	3@3	7.99	<=13	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	4.11	<=13	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	4.99	<=13	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	3@3	8.9	<=13	PASS

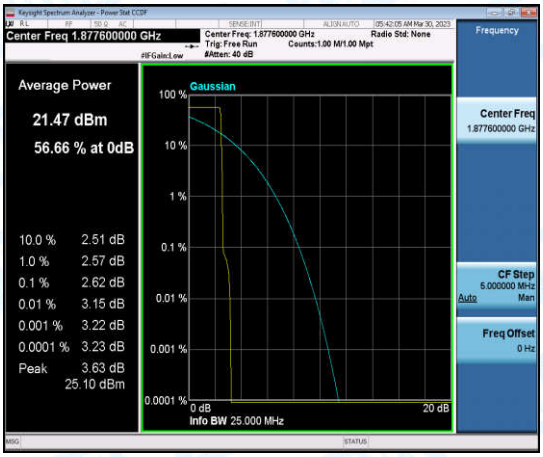
2.2 Test Graphs



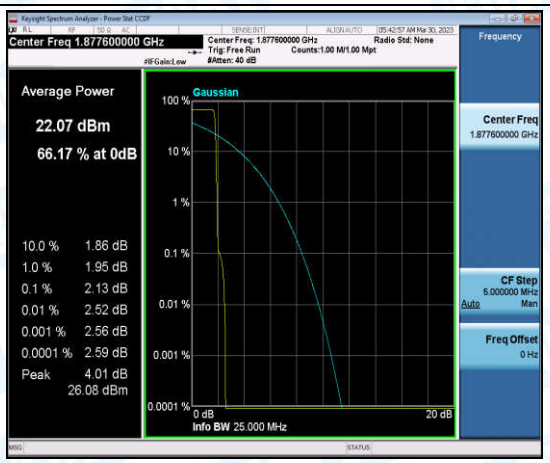
Band2-Stand-Alone-NaN-BPSK-18876-1@0-3.75kHz-1.74-<=13-PASS



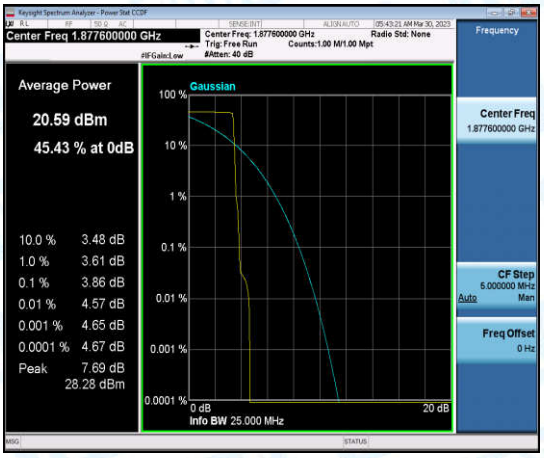
Band2-Stand-Alone-NaN-BPSK-18876-1@47-3.75kHz-2-<=13-PASS



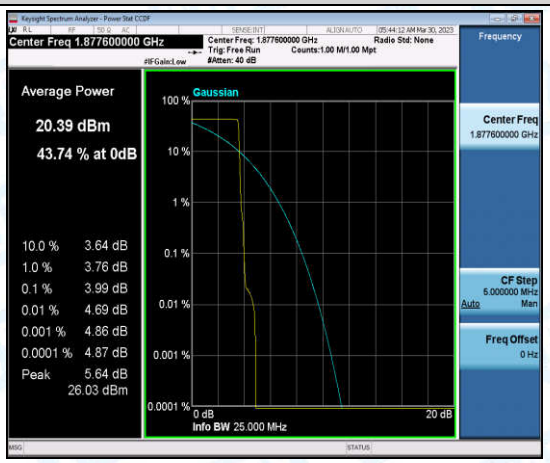
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-2.62-<=13-PASS



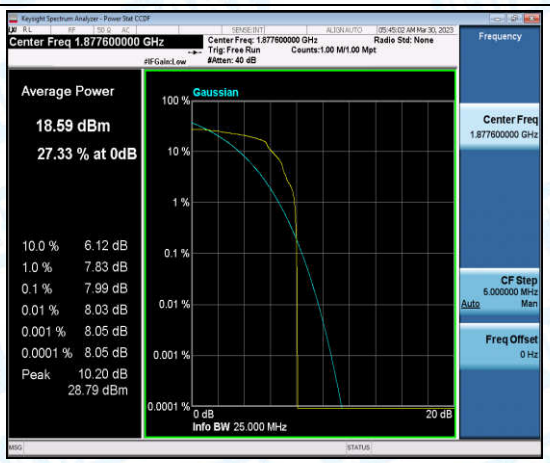
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-2.13-<=13-PASS



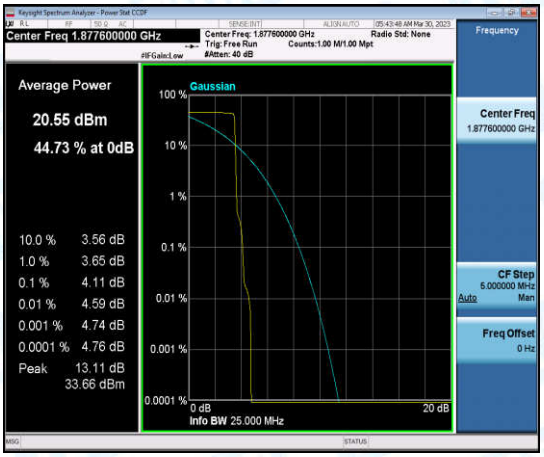
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-3.86-<=13-PASS



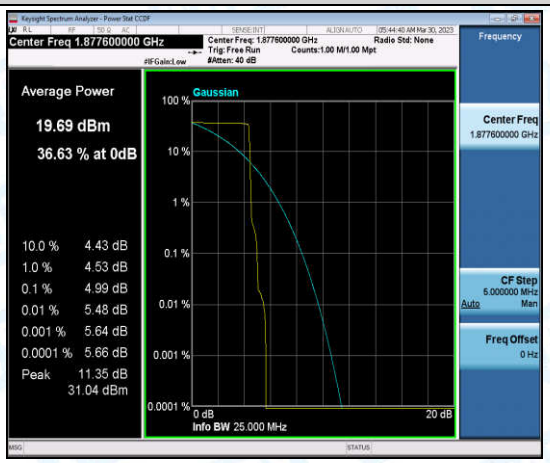
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-3.99-<=13-PASS



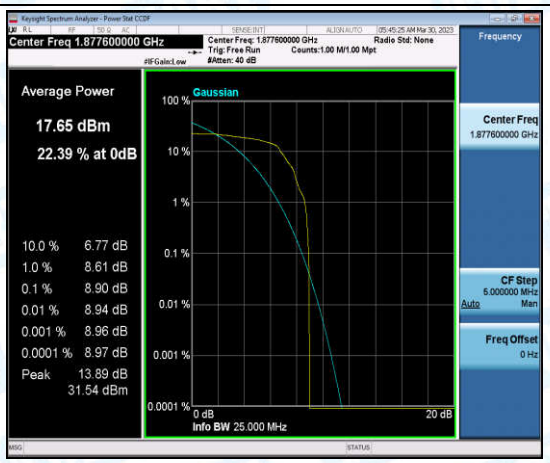
Band2-Stand-Alone-NaN-BPSK-18876-3@3-15kHz-7.99-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18876-1@0-15kHz-4.11-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18876-1@11-15kHz-4.99-<=13-PASS



Band2-Stand-Alone-NaN-QPSK-18876-3@3-15kHz-8.9-<=13-PASS

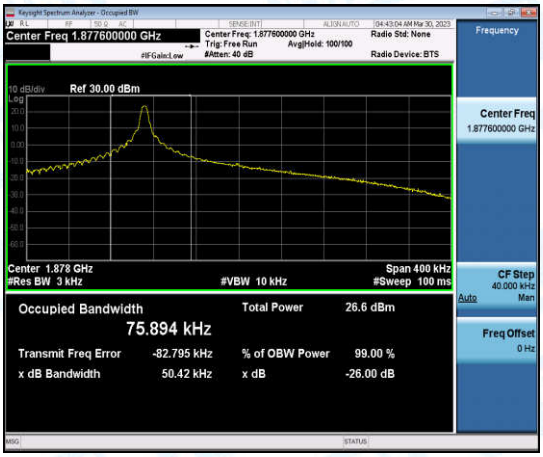
3: Emission Bandwidth for NB1

3.1 Test Result

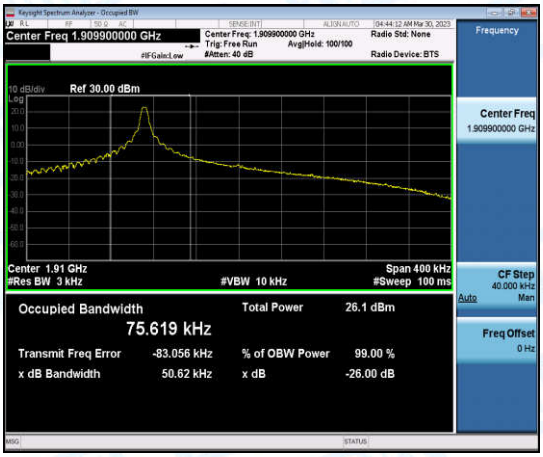
Band	OpMode	BW	Modu	Channel	Tones	Occupied Bandwidth (MHz)	Result (MHz)	Verdict
Band2	Stand-Alone	3.75kHz	BPSK	18601	1@0	0.0740	0.0502	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18876	1@0	0.0759	0.0504	PASS
Band2	Stand-Alone	3.75kHz	BPSK	19199	1@0	0.0756	0.0506	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	0.0905	0.0543	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	0.0923	0.0533	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	0.0939	0.0533	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	0.1370	0.1277	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	12@0	0.1871	0.3013	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	0.1361	0.1275	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	12@0	0.1856	0.3048	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	0.1357	0.1273	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	12@0	0.1872	0.3180	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	1@0	0.1347	0.1300	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	0.1858	0.2705	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	0.1426	0.1435	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	12@0	0.1870	0.3193	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	1@0	0.1430	0.1446	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	0.1850	0.2893	PASS

3.2 Test Graphs

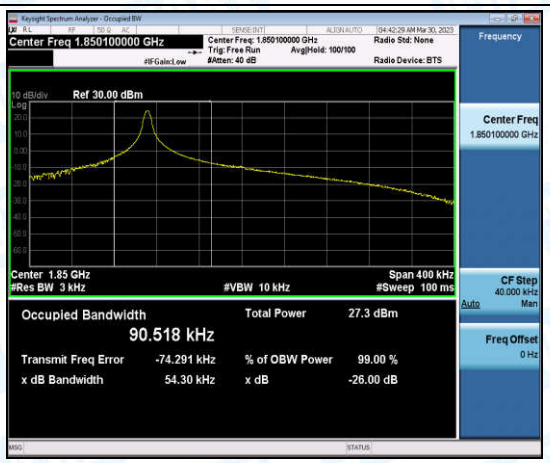
Band2-Stand-Alone-NaN-BPSK-18601-1@0-3.75kHz-0.0502-PASS



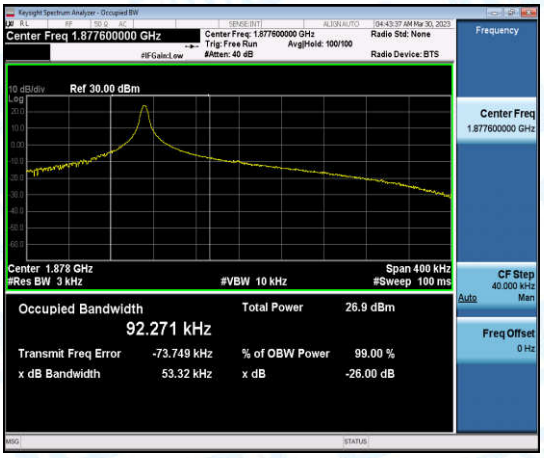
Band2-Stand-Alone-NaN-BPSK-18876-1@0-3.75kHz-0.0504-PASS



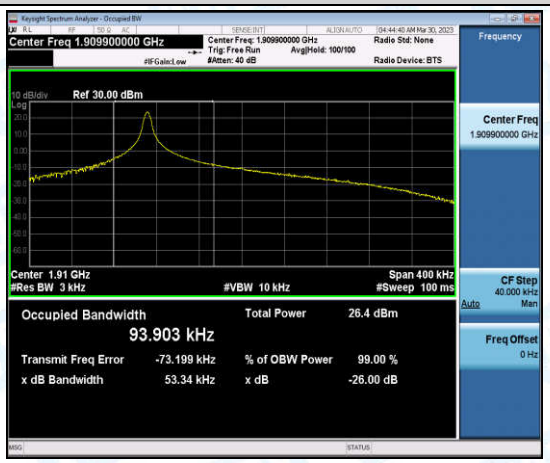
Band2-Stand-Alone-NaN-BPSK-19199-1@0-3.75kHz-0.0506-PASS



Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-0.0543-PASS

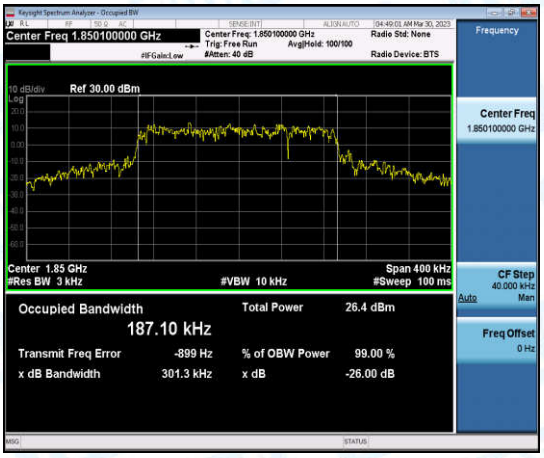


Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-0.0533-PASS

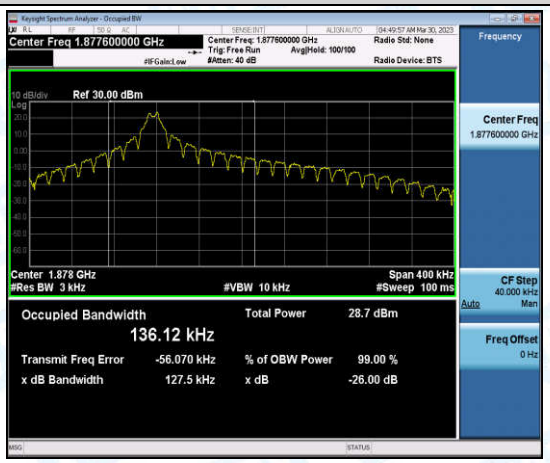


Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.0533-PASS

Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.1277-PASS



Band2-Stand-Alone-NaN-BPSK-18601-12@0-15kHz-0.3013-PASS

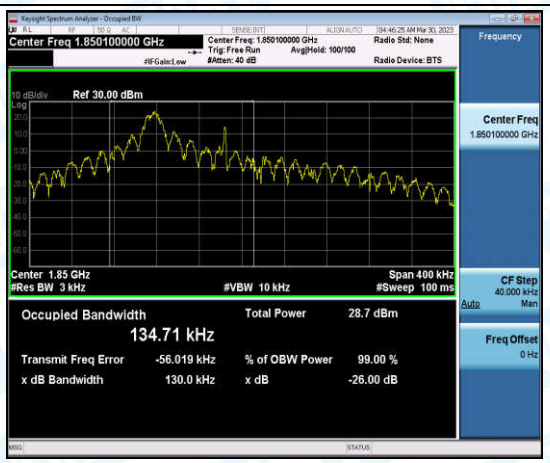


Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.1275-PASS

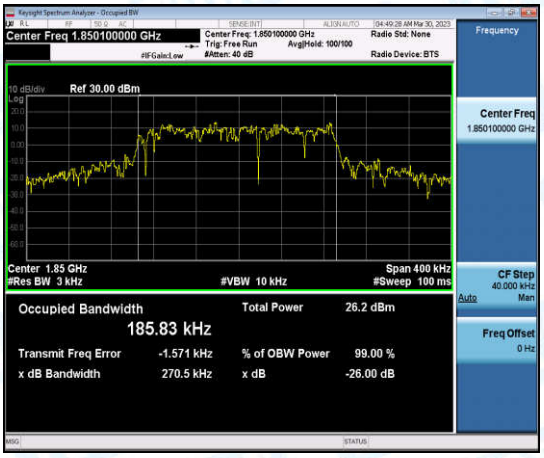
Band2-Stand-Alone-NaN-BPSK-18876-12@0-15kHz-0.3048-PASS

Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.1273-PASS

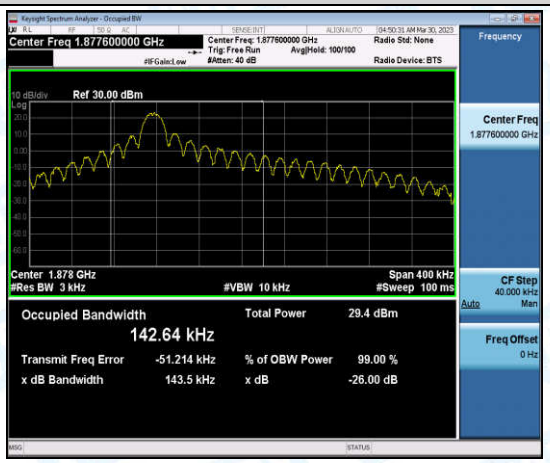
Band2-Stand-Alone-NaN-BPSK-19199-12@0-15kHz-0.3180-PASS



Band2-Stand-Alone-NaN-QPSK-18601-1@0-15kHz-0.1300-PASS

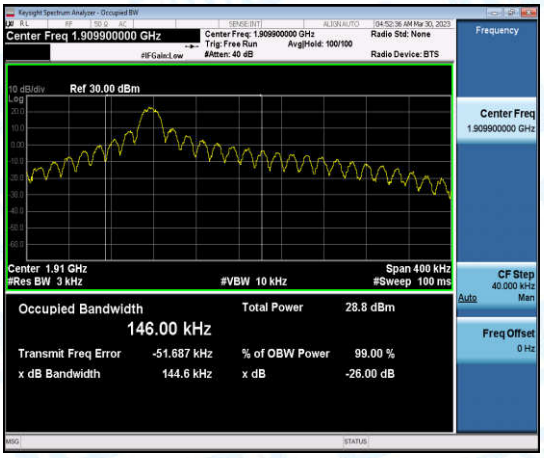


Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-0.2705-PASS



Band2-Stand-Alone-NaN-QPSK-18876-1@0-15kHz-0.1435-PASS

Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.3193-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@0-15kHz-0.1446-PASS

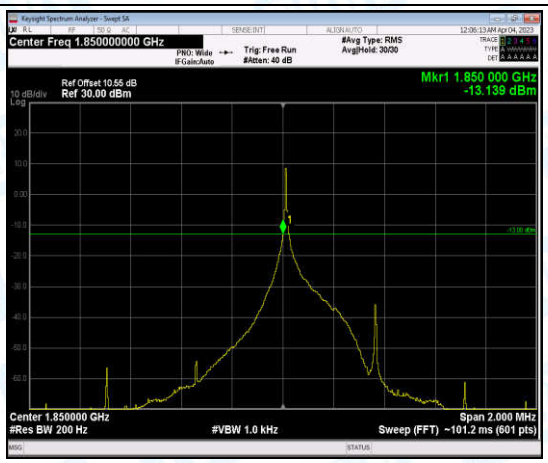
Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-0.2893-PASS

4: Band Edge for NB1

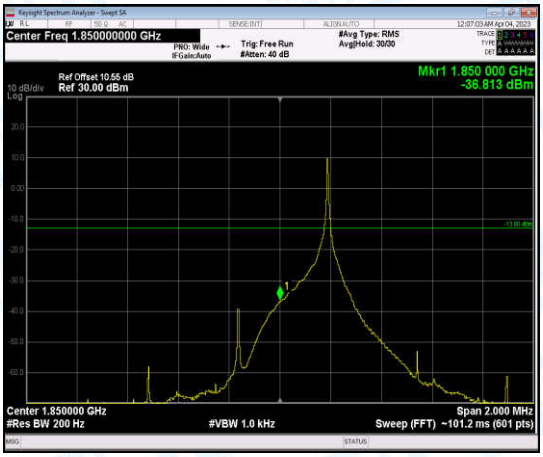
4.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	BPSK	18601	1@0	-13.14	PASS
Band2	Stand-Alone	3.75kHz	BPSK	18601	1@47	-36.81	PASS
Band2	Stand-Alone	3.75kHz	BPSK	19199	1@0	-38.03	PASS
Band2	Stand-Alone	3.75kHz	BPSK	19199	1@47	-13.84	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	-13.94	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	-37.10	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	-38.25	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	-14.82	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	-14.17	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	-32.89	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	12@0	-38.69	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	-35.20	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	-15.99	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	12@0	-38.28	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	1@0	-14.67	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	1@11	-33.61	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	-38.68	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	1@0	-33.30	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	1@11	-15.41	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	-39.51	PASS

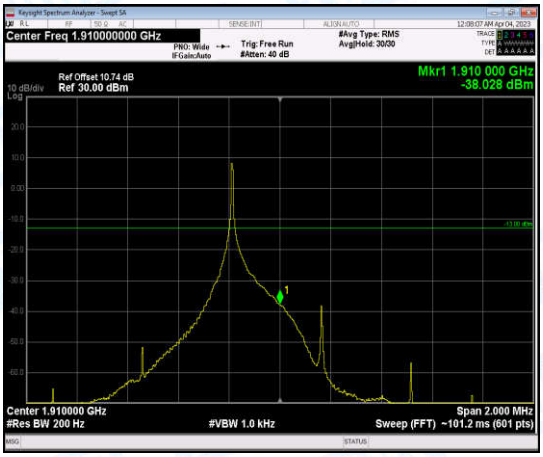
4.2 Test Graphs



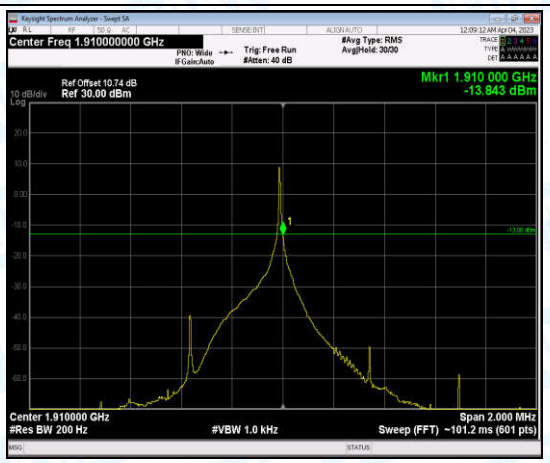
Band2-Stand-Alone-NaN-BPSK-18601-1@0-3.75kHz--13.14-PASS



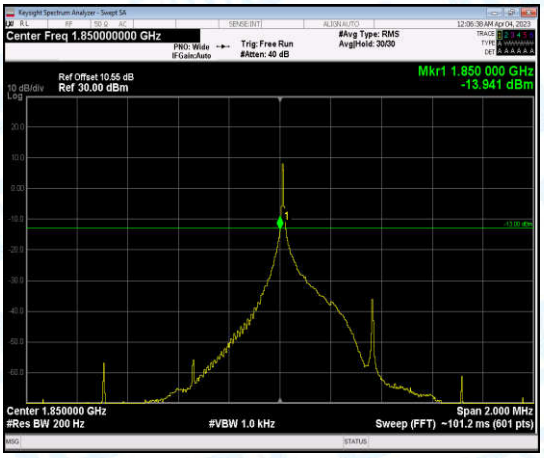
Band2-Stand-Alone-NaN-BPSK-18601-1@47-3.75kHz--36.81-PASS



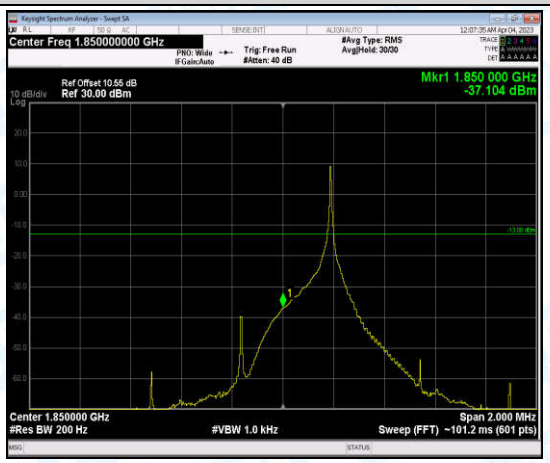
Band2-Stand-Alone-NaN-BPSK-19199-1@0-3.75kHz--38.03-PASS



Band2-Stand-Alone-NaN-BPSK-19199-1@47-3.75kHz--13.84-PASS

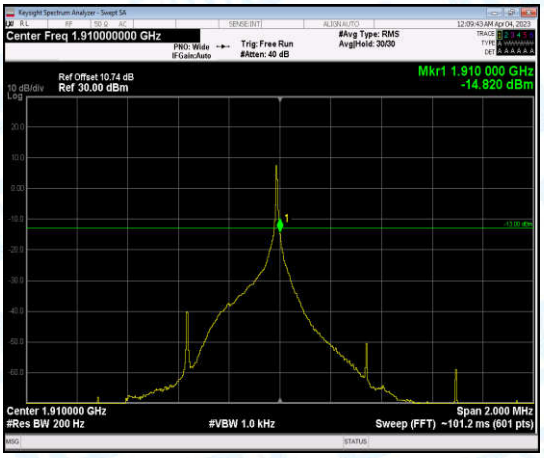


Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz--13.94-PASS



Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz--37.10-PASS

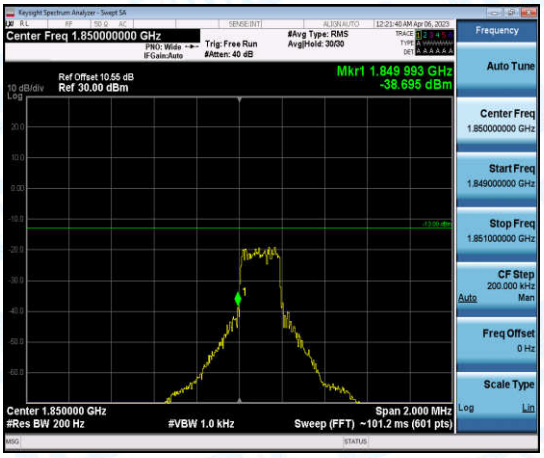
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz--38.25-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz--14.82-PASS

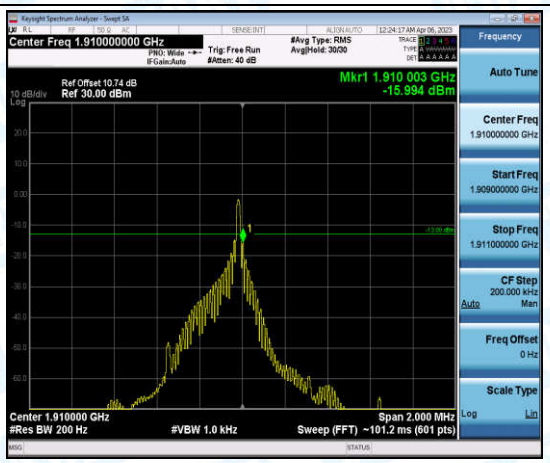
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz--14.17-PASS

Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz--32.89-PASS

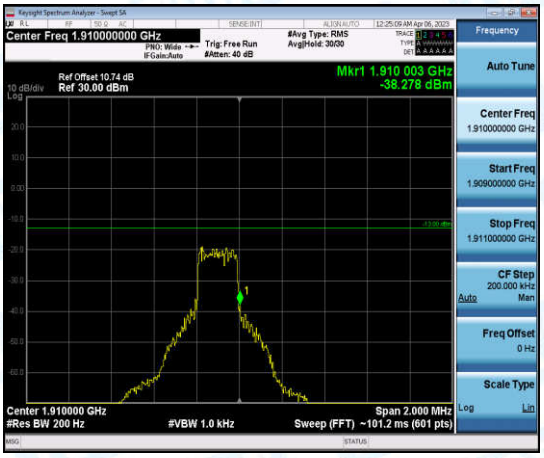


Band2-Stand-Alone-NaN-BPSK-18601-12@0-15kHz--38.69-PASS

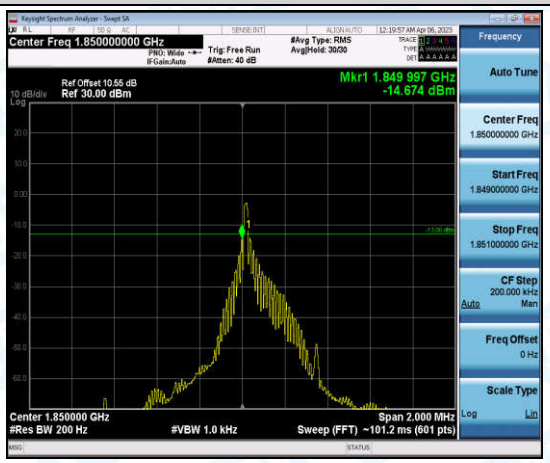
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz--35.20-PASS



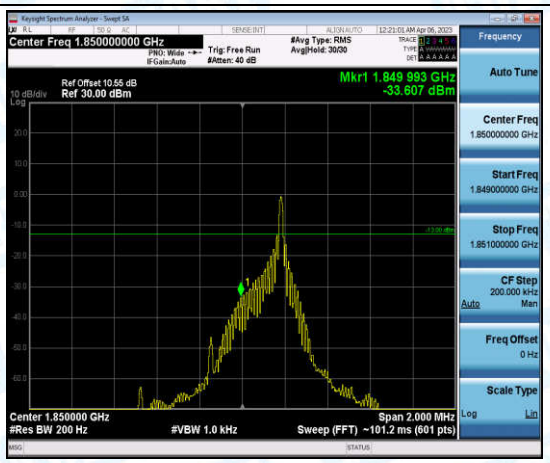
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz--15.99-PASS



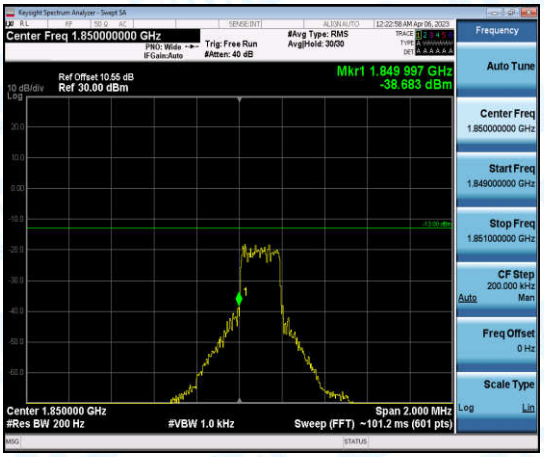
Band2-Stand-Alone-NaN-BPSK-19199-12@0-15kHz--38.28-PASS



Band2-Stand-Alone-NaN-QPSK-18601-1@0-15kHz--14.67-PASS

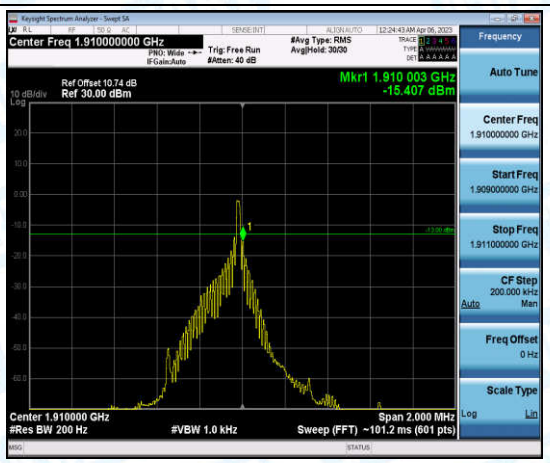


Band2-Stand-Alone-NaN-QPSK-18601-1@11-15kHz--33.61-PASS

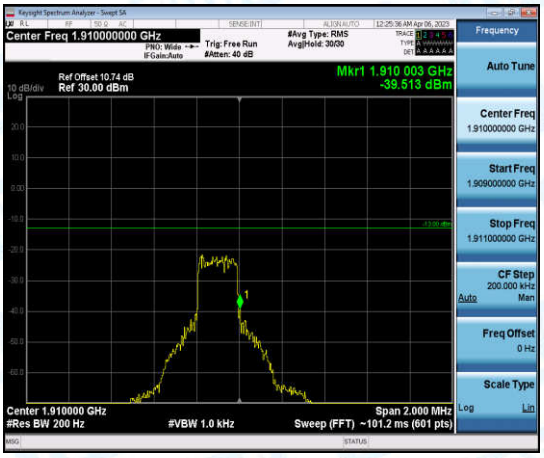


Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz--38.68-PASS

Band2-Stand-Alone-NaN-QPSK-19199-1@0-15kHz--33.30-PASS



Band2-Stand-Alone-NaN-QPSK-19199-1@11-15kHz--15.41-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz--39.51-PASS

5: Conducted Spurious Emission for NB1

5.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	0.009	0.15	0.009~0.15MHz@-60.68dBm	-43	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	0.15	30	0.15~30MHz@-66.42dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	30	1000	30~1000MHz@-50.15dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@0	1000	20000	1000~20000MHz@-40.42dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	0.009	0.15	0.009~0.15MHz@-61.84dBm	-43	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	0.15	30	0.15~30MHz@-65.77dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	30	1000	30~1000MHz@-50.19dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18601	1@47	1000	20000	1000~20000MHz@-40.66dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	0.009	0.15	0.009~0.15MHz@-61.24dBm	-43	PASS

Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	0.15	30	0.15~30MHz @-65.34dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	30	1000	30~1000MHz @-50.16dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	1000	20000	1000~20000MHz@-40.54dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	0.009	0.15	0.009~0.15MHz@-60.76dBm	-43	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	0.15	30	0.15~30MHz @-67.11dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	30	1000	30~1000MHz @-50.06dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	1000	20000	1000~20000MHz@-39.67dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	0.009	0.15	0.009~0.15MHz@-60.87dBm	-43	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	0.15	30	0.15~30MHz @-63.94dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	30	1000	30~1000MHz @-49.97dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@0	1000	20000	1000~20000MHz@-4	-13	PASS

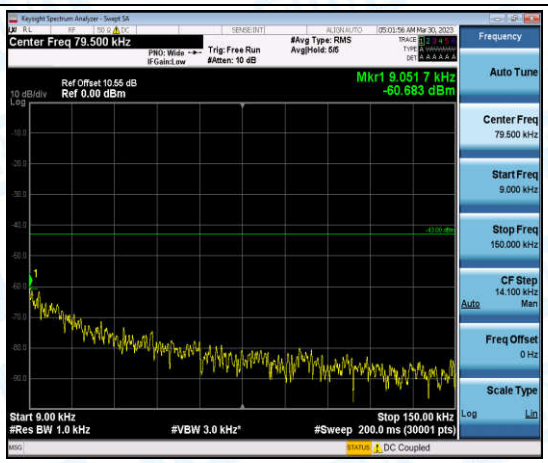
								0.34dBm		
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	0.009	0.15	0.009~0.15MHz@-59.48dBm	-43	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	0.15	30	0.15~30MHz@-65.7dBm	-33	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	30	1000	30~1000MHz@-49.95dBm	-13	PASS
Band2	Stand-Alone	3.75kHz	QPSK	19199	1@47	1000	20000	1000~20000MHz@-40.59dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	0.009	0.15	0.009~0.15MHz@-62.55dBm	-43	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	0.15	30	0.15~30MHz@-65.38dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	30	1000	30~1000MHz@-50.19dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@0	1000	20000	1000~20000MHz@-40.5dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	0.009	0.15	0.009~0.15MHz@-61.27dBm	-43	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	0.15	30	0.15~30MHz@-64.73dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	30	1000	30~1000MHz	-13	PASS

								@-50.28dBm		
Band2	Stand-Alone	15kHz	BPSK	18601	1@11	1000	20000	1000~20000MHz@-40.36dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	0.009	0.15	0.009~0.15MHz@-60.88dBm	-43	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	0.15	30	0.15~30MHz@-64.28dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	30	1000	30~1000MHz@-50.28dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@0	1000	20000	1000~20000MHz@-40.65dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	0.009	0.15	0.009~0.15MHz@-60.39dBm	-43	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	0.15	30	0.15~30MHz@-64.87dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	30	1000	30~1000MHz@-50.19dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	18876	1@11	1000	20000	1000~20000MHz@-40.62dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	0.009	0.15	0.009~0.15MHz@-61.23dBm	-43	PASS

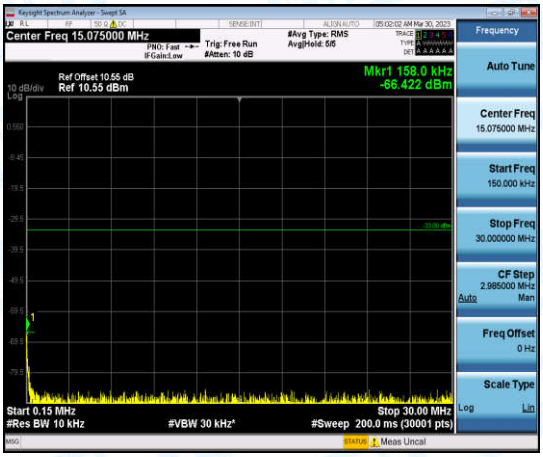
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	0.15	30	0.15~30MHz @-67dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	30	1000	30~1000MHz @-50.11dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@0	1000	20000	1000~20000MHz@-40dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	0.009	0.15	0.009~0.15MHz@-59.67dBm	-43	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	0.15	30	0.15~30MHz @-65.6dBm	-33	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	30	1000	30~1000MHz @-50.03dBm	-13	PASS
Band2	Stand-Alone	15kHz	BPSK	19199	1@11	1000	20000	1000~20000MHz@-40.61dBm	-13	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	0.009	0.15	0.009~0.15MHz@-62.16dBm	-43	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	0.15	30	0.15~30MHz @-66.9dBm	-33	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	30	1000	30~1000MHz @-50.25dBm	-13	PASS
Band2	Stand-Alone	15kHz	QPSK	18601	12@0	1000	20000	1000~20000MHz@-40.74dB	-13	PASS

								m		
Band2	Stand-Alone	15kHz	QPSK	18876	12@0	0.009	0.15	0.009~0.15MHz@-62.62dBm	-43	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	12@0	0.15	30	0.15~30MHz@-65.21dBm	-33	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	12@0	30	1000	30~1000MHz@-50.04dBm	-13	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	12@0	1000	20000	1000~20000MHz@-40.67dBm	-13	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	0.009	0.15	0.009~0.15MHz@-60.56dBm	-43	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	0.15	30	0.15~30MHz@-65.67dBm	-33	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	30	1000	30~1000MHz@-50.03dBm	-13	PASS
Band2	Stand-Alone	15kHz	QPSK	19199	12@0	1000	20000	1000~20000MHz@-40.58dBm	-13	PASS

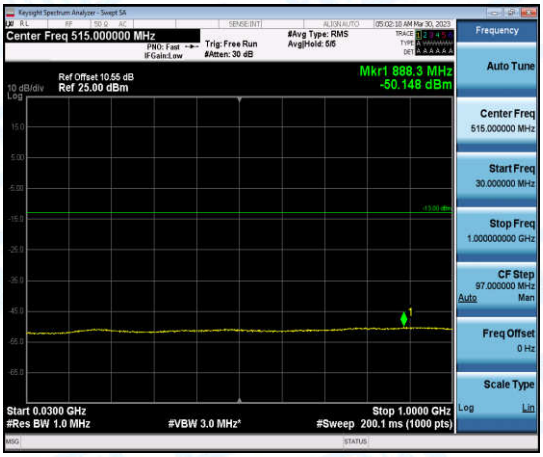
5.2 Test Graphs



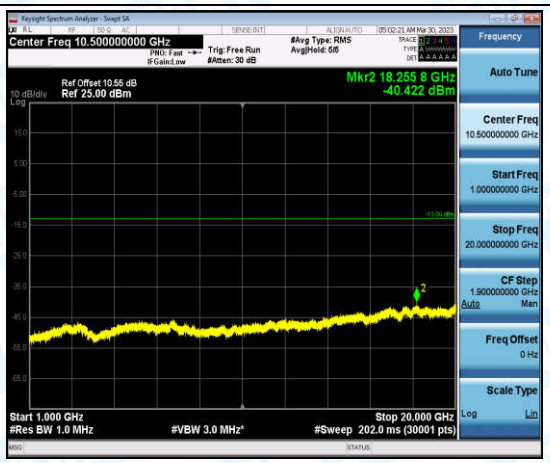
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.68dBm--43-PASS



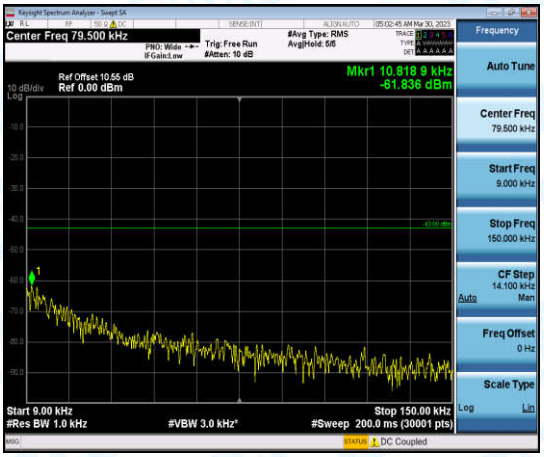
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-0.15-30-0.15~30MHz@-66.42dBm--33-PASS



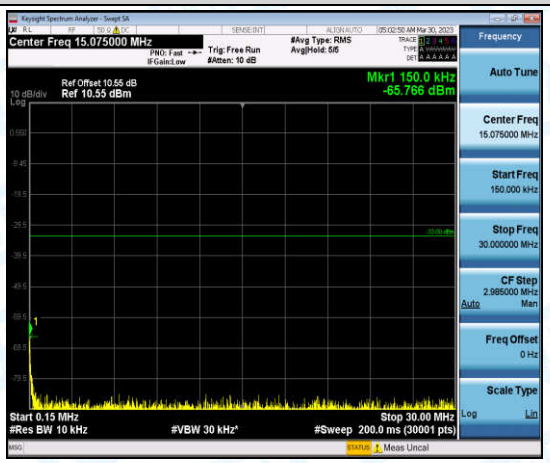
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-30-1000-30~1000MHz@-50.15dBm--13-PASS



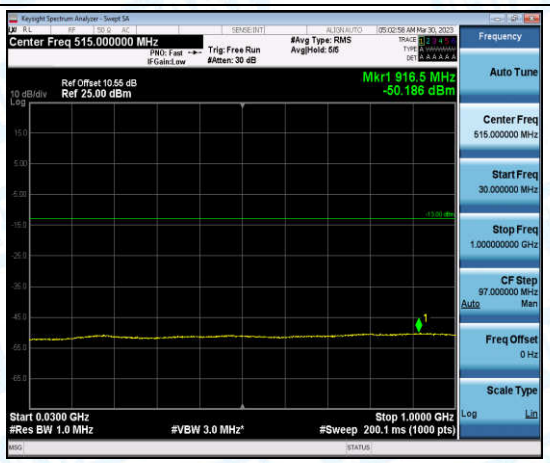
Band2-Stand-Alone-NaN-QPSK-18601-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.42dBm--13-PASS



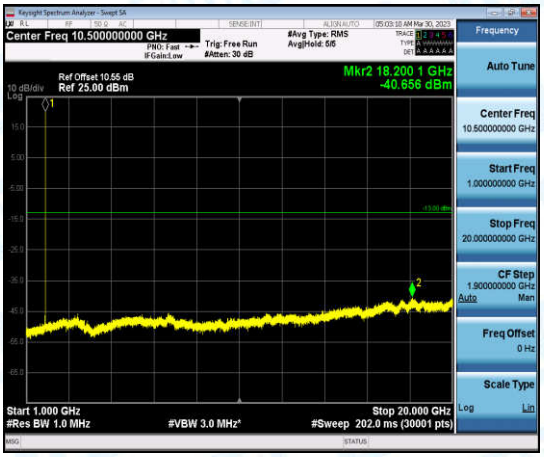
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.84dBm--43-PASS



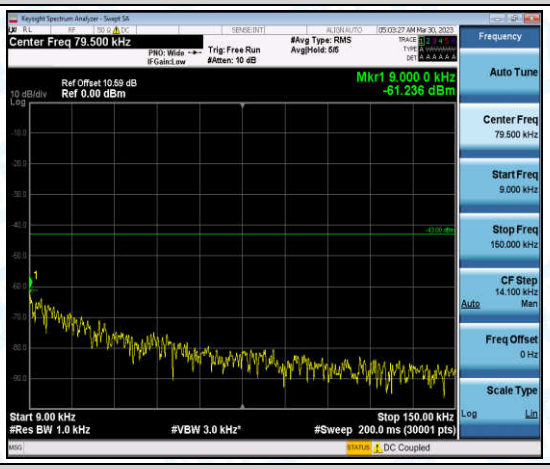
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-0.15-30-0.15~30MHz@-65.77dBm--33-PASS



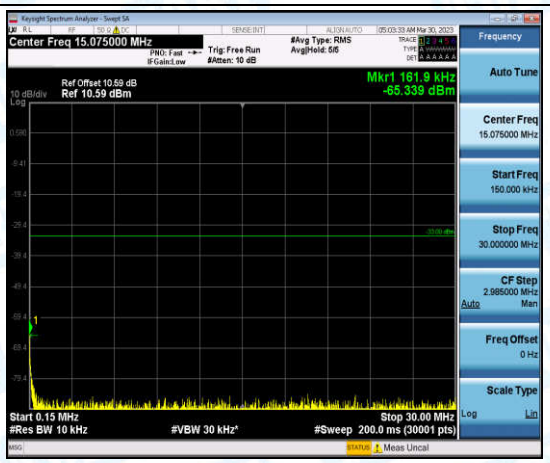
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-30-1000-30~1000MHz@-50.19dBm--13-PASS



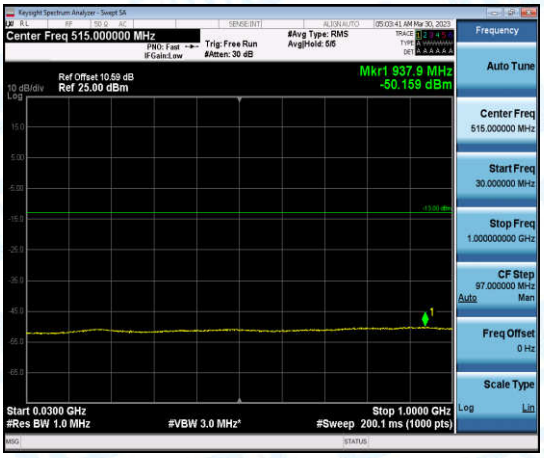
Band2-Stand-Alone-NaN-QPSK-18601-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.66dBm--13-PASS



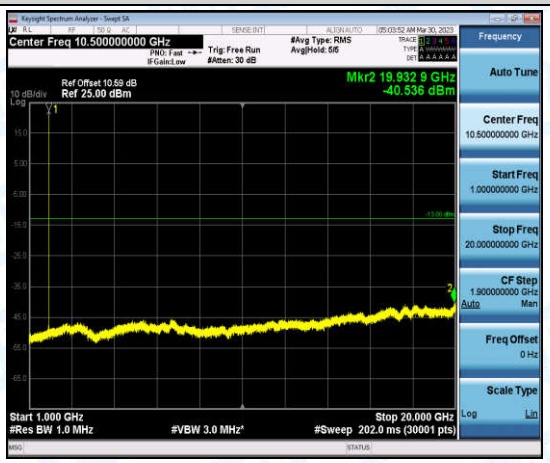
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.24dBm--43-PASS



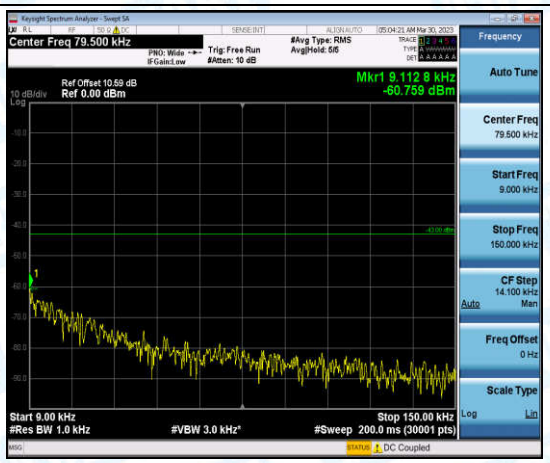
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-0.15-30-0.15~30MHz@-65.34dBm--33-PASS



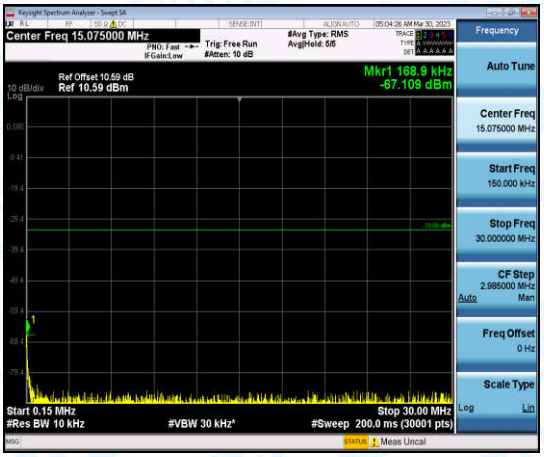
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-30-1000-30~1000MHz@-50.16dBm--13-PASS



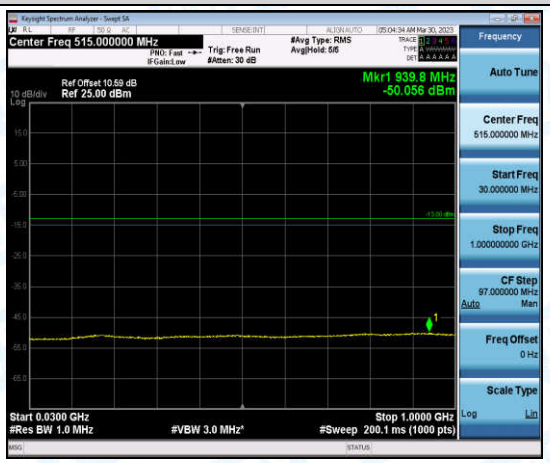
Band2-Stand-Alone-NaN-QPSK-18876-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.54dBm--13-PASS



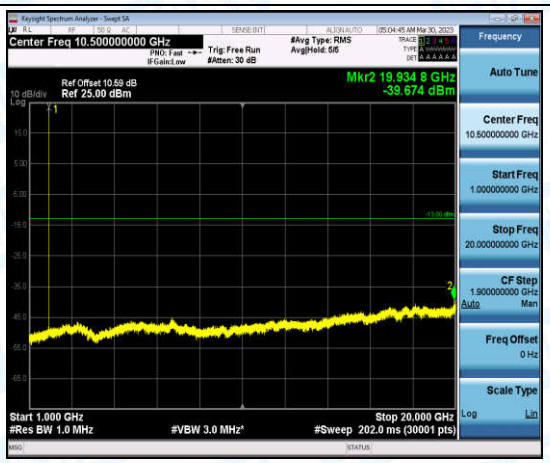
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.76dBm--43-PASS



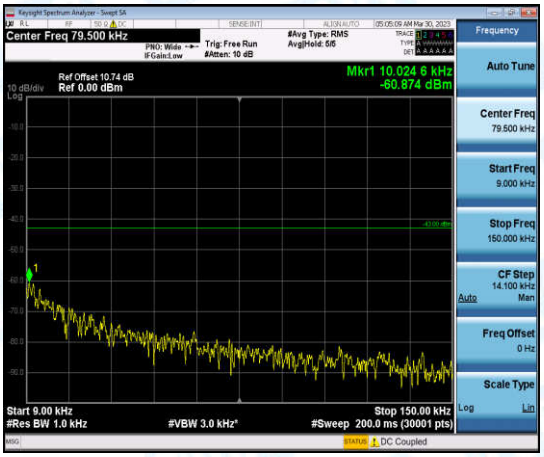
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-0.15-30-0.15~30MHz@-67.11dBm--33-PASS



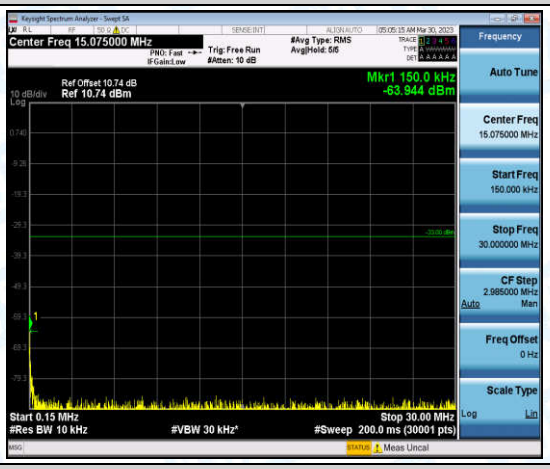
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-30-1000-30~1000MHz@-50.06dBm--13-PASS



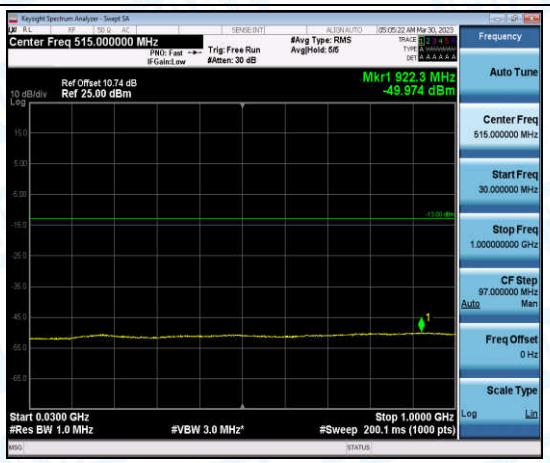
Band2-Stand-Alone-NaN-QPSK-18876-1@47-3.75kHz-1000-20000-1000~20000MHz@-39.67dBm--13-PASS



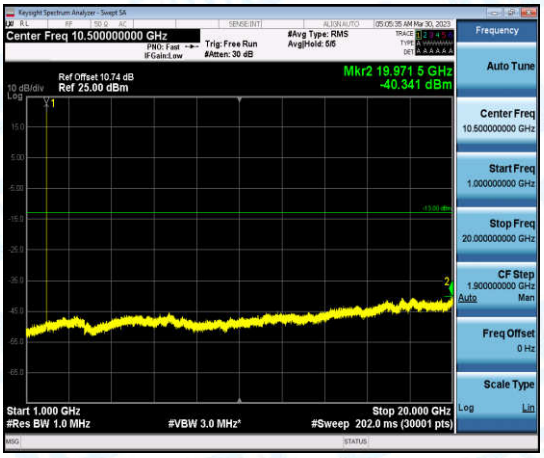
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.87dBm--43-PASS



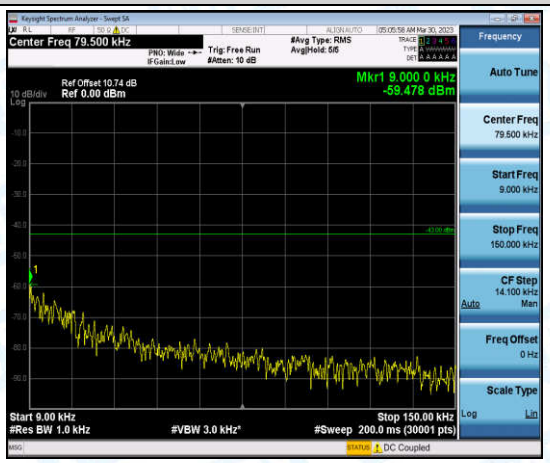
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-0.15-30-0.15~30MHz@-63.94dBm--33-PASS



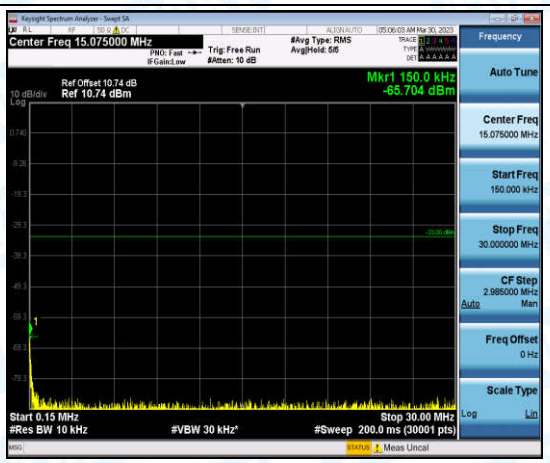
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-30-1000-30~1000MHz@-49.97dBm--13-PASS



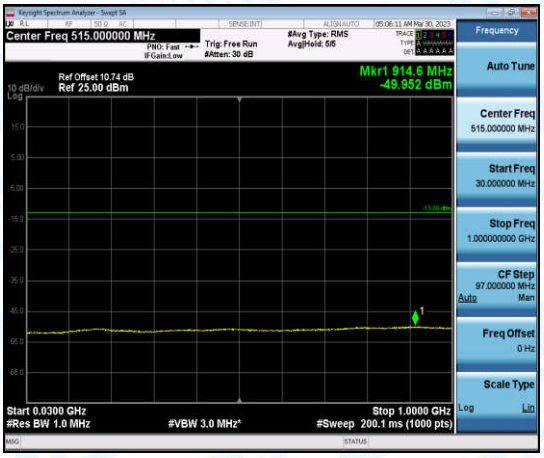
Band2-Stand-Alone-NaN-QPSK-19199-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.34dBm--13-PASS



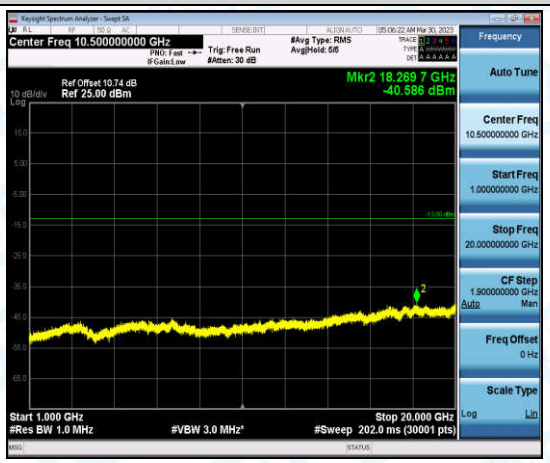
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-59.48dBm--43-PASS



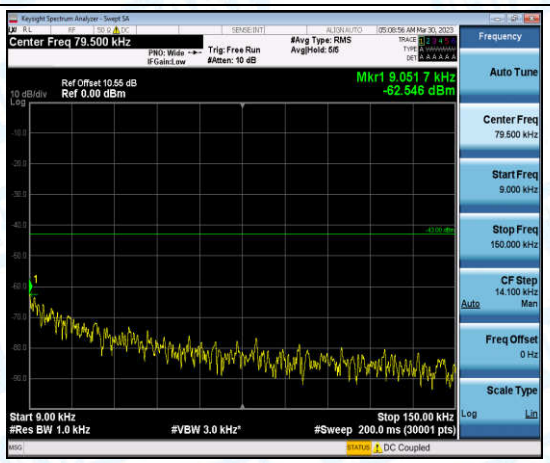
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-0.15-30-0.15~30MHz@-65.7dBm--33-PASS



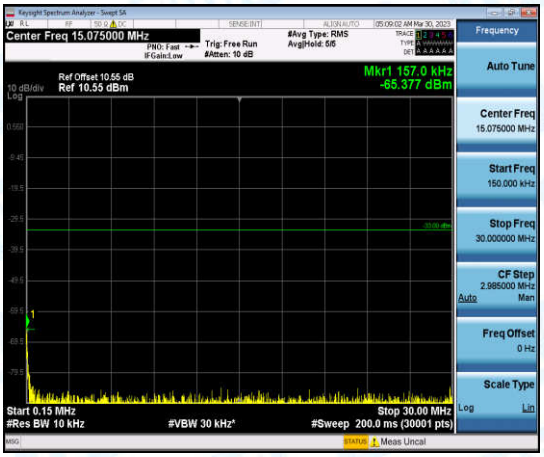
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-30-1000-30~1000MHz@-49.95dBm--13-PASS



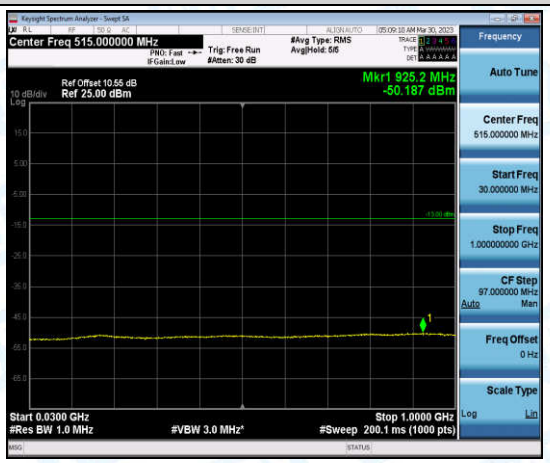
Band2-Stand-Alone-NaN-QPSK-19199-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.59dBm--13-PASS



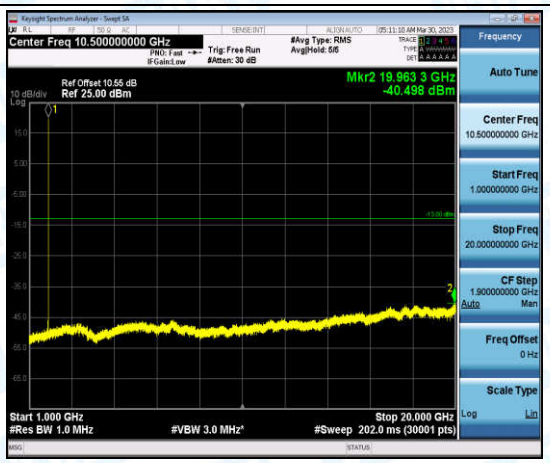
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.55dBm--43-PASS



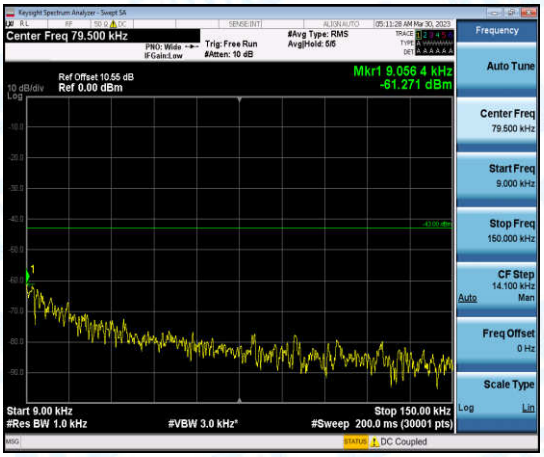
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-0.15-30-0.15~30MHz@-65.38dBm--33-PASS



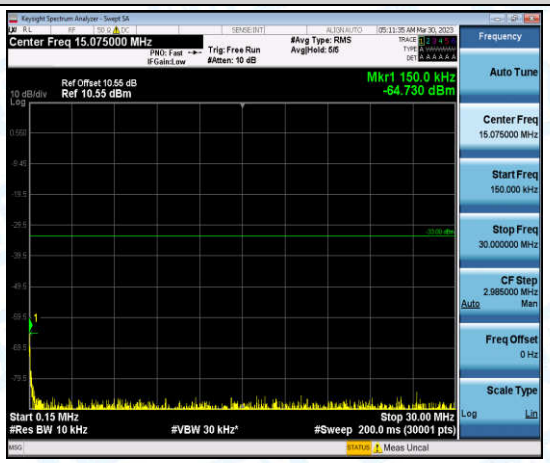
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-30-1000-30~1000MHz@-50.19dBm--13-PASS



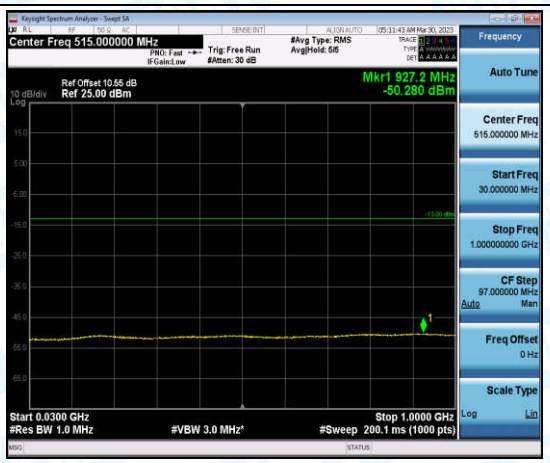
Band2-Stand-Alone-NaN-BPSK-18601-1@0-15kHz-1000-20000-1000~20000MHz@-40.5dBm--13-PASS



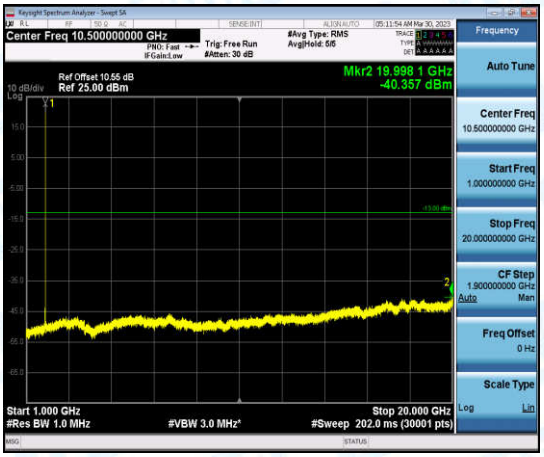
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-61.27dBm--43-PASS



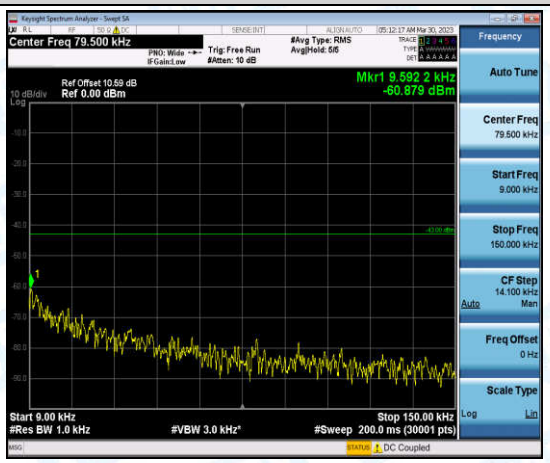
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-0.15-30-0.15~30MHz@-64.73dBm--33-PASS



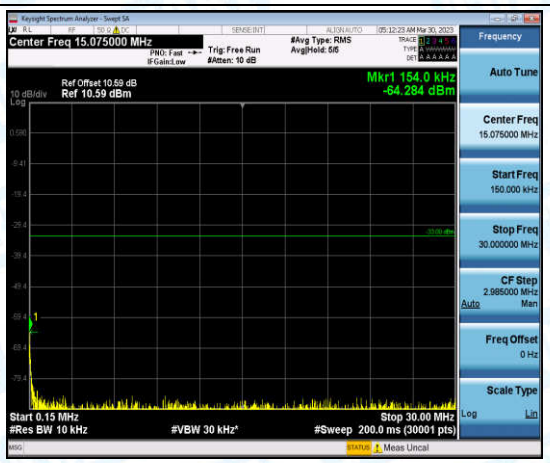
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-30-1000-30~1000MHz@-50.28dBm--13-PASS



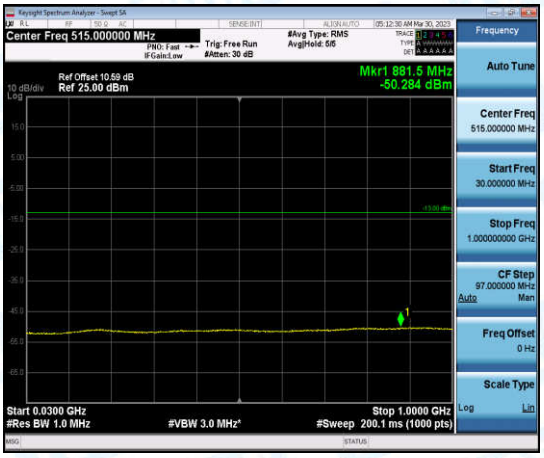
Band2-Stand-Alone-NaN-BPSK-18601-1@11-15kHz-1000-20000-1000~20000MHz@-40.36dBm--13-PASS



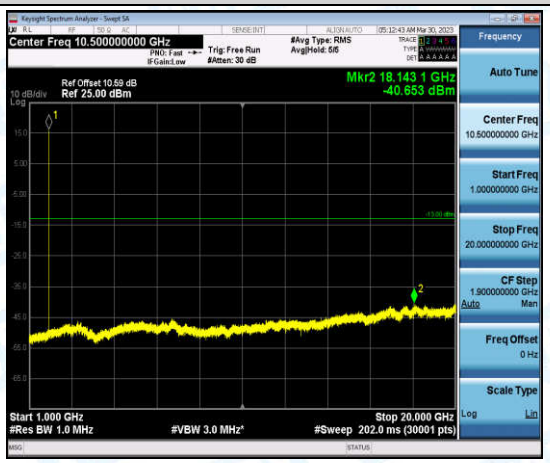
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.88dBm--43-PASS



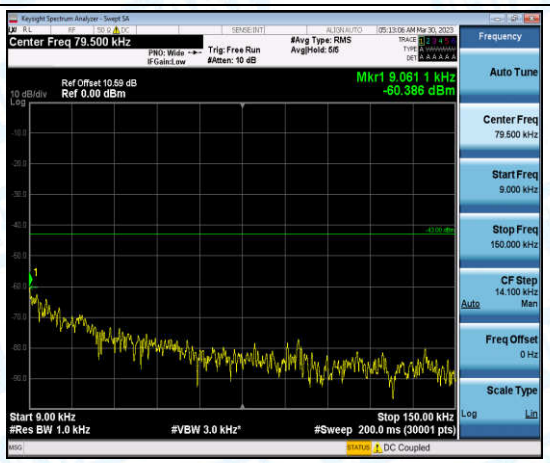
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-0.15-30-0.15~30MHz@-64.28dBm--33-PASS



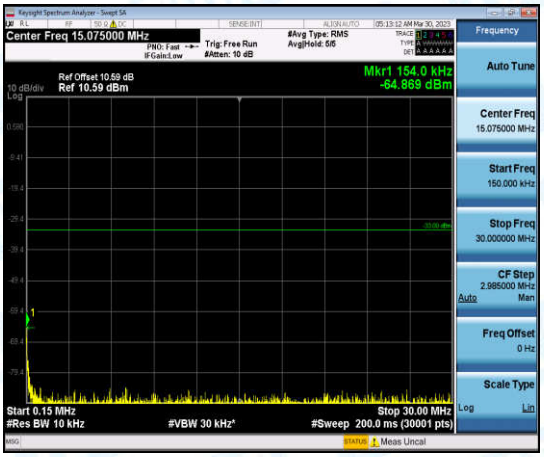
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-30-1000-30~1000MHz@-50.28dBm--13-PASS



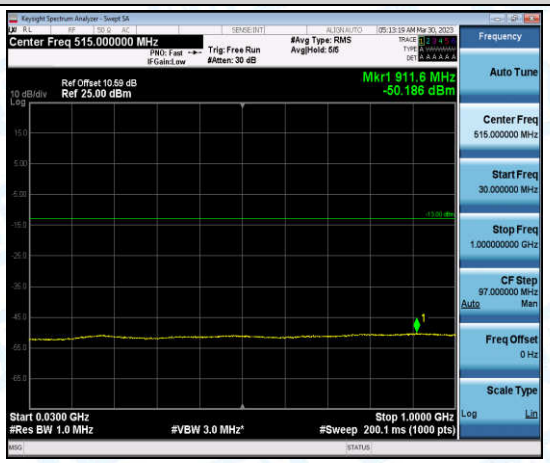
Band2-Stand-Alone-NaN-BPSK-18876-1@0-15kHz-1000-20000-1000~20000MHz@-40.65dBm--13-PASS



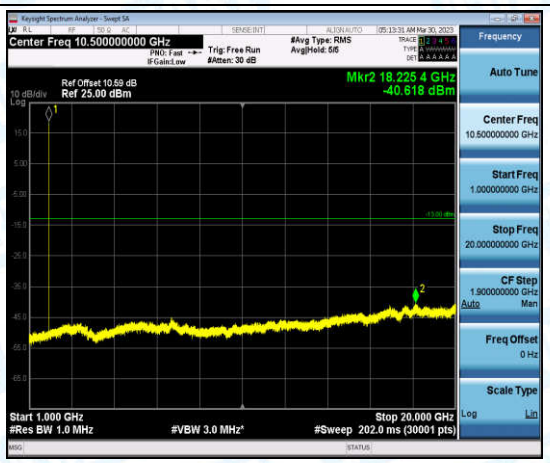
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-60.39dBm--43-PASS



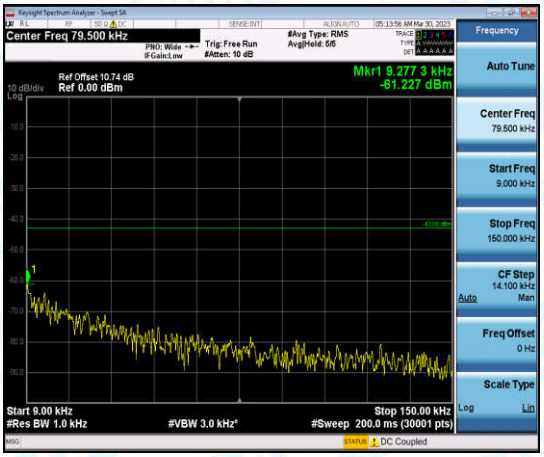
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-0.15-30-0.15~30MHz@-64.87dBm--33-PASS



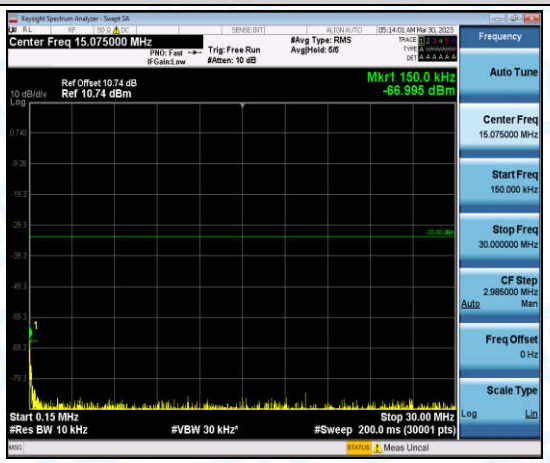
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-30-1000-30~1000MHz@-50.19dBm--13-PASS



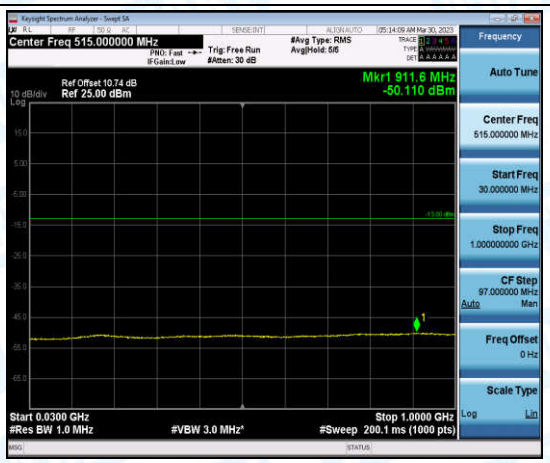
Band2-Stand-Alone-NaN-BPSK-18876-1@11-15kHz-1000-20000-1000~20000MHz@-40.62dBm--13-PASS



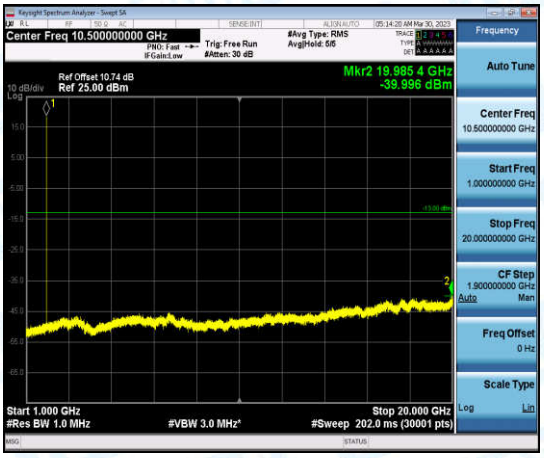
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-61.23dBm--43-PASS



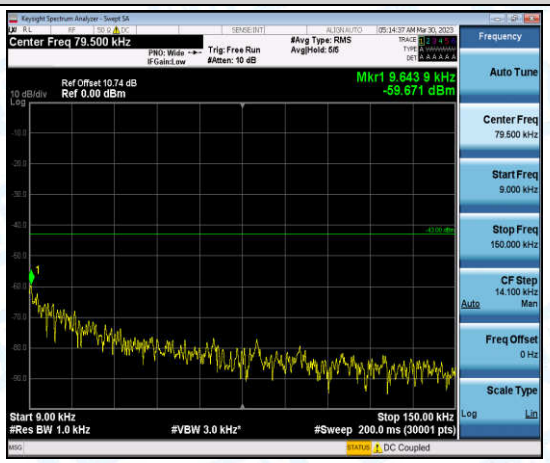
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-0.15-30-0.15~30MHz@-67dBm--33-PASS



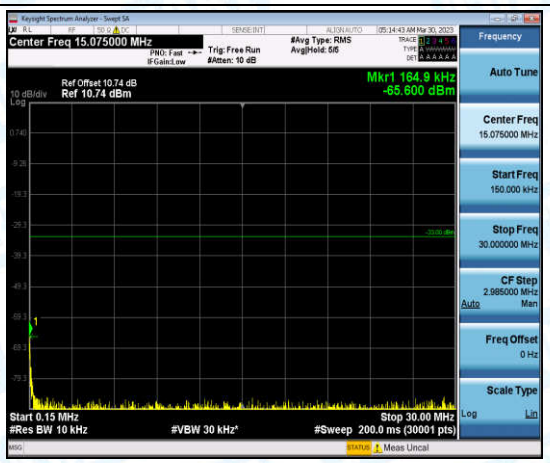
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-30-1000-30~1000MHz@-50.11dBm--13-PASS



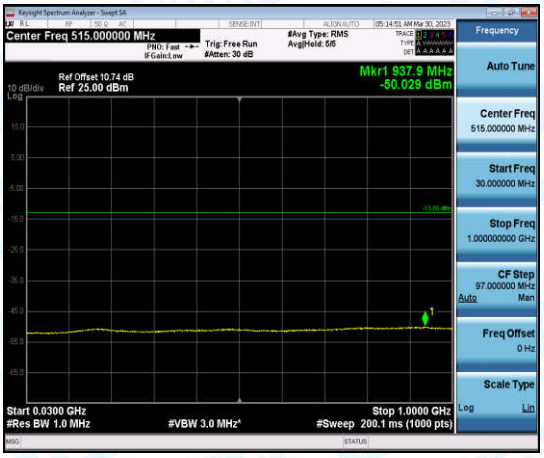
Band2-Stand-Alone-NaN-BPSK-19199-1@0-15kHz-1000-20000-1000~20000MHz@-40dBm--13-PASS



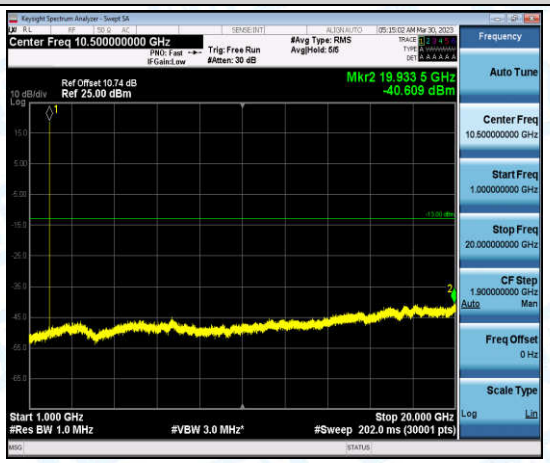
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-59.67dBm--43-PASS



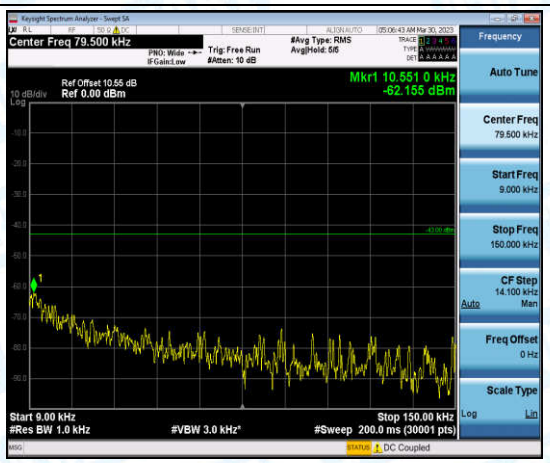
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-0.15-30-0.15~30MHz@-65.6dBm--33-PASS



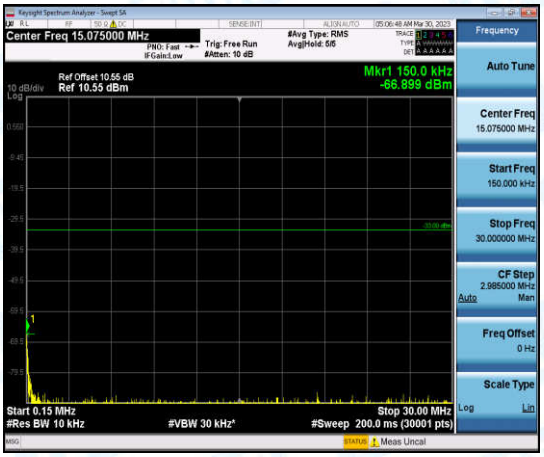
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-30-1000-30~1000MHz@-50.03dBm--13-PASS



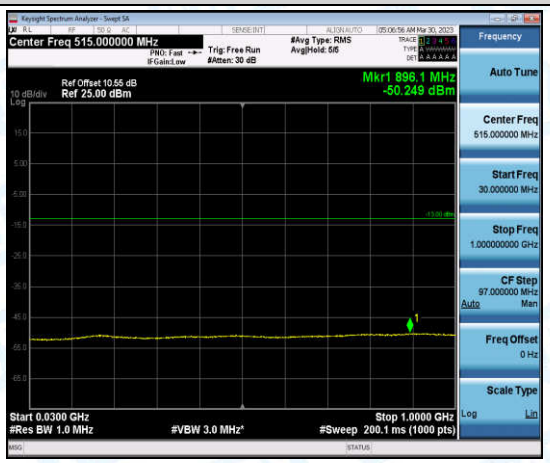
Band2-Stand-Alone-NaN-BPSK-19199-1@11-15kHz-1000-20000-1000~20000MHz@-40.61dBm--13-PASS



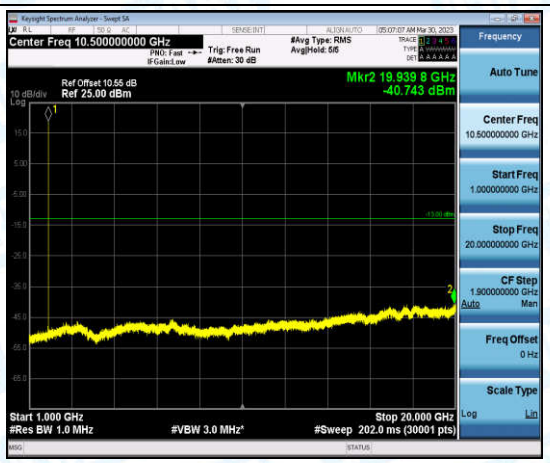
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.16dBm--43-PASS



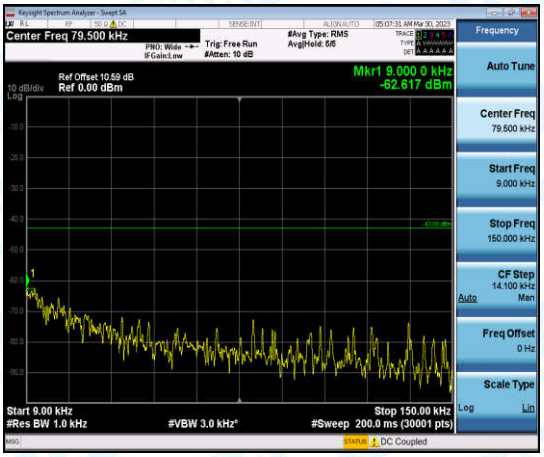
Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-0.15-30-0.15~30MHz@-66.9dBm--33-PASS



Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-30-1000-30~1000MHz@-50.25dBm--13-PASS

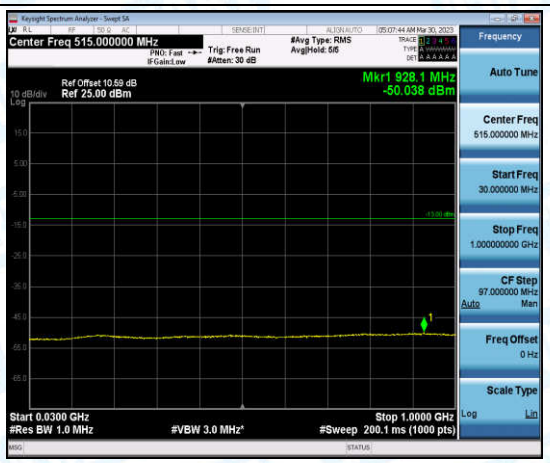


Band2-Stand-Alone-NaN-QPSK-18601-12@0-15kHz-1000-20000-1000~20000MHz@-40.74dBm--13-PASS

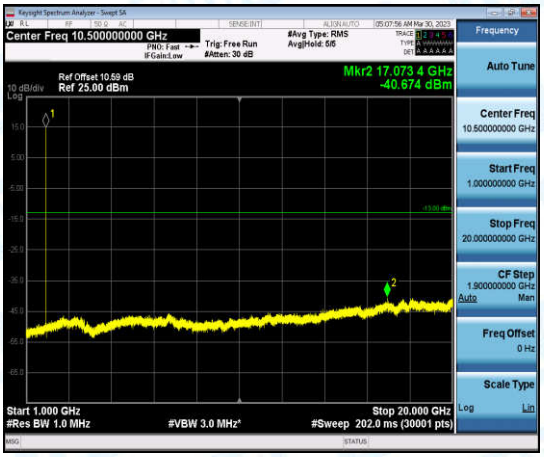


Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-62.62dBm--43-PASS

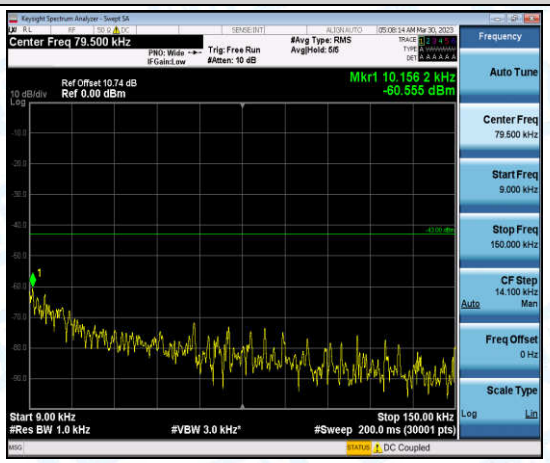
Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-0.15-30-0.15~30MHz@-65.21dBm--33-PASS



Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-30-1000-30~1000MHz@-50.04dBm--13-PASS

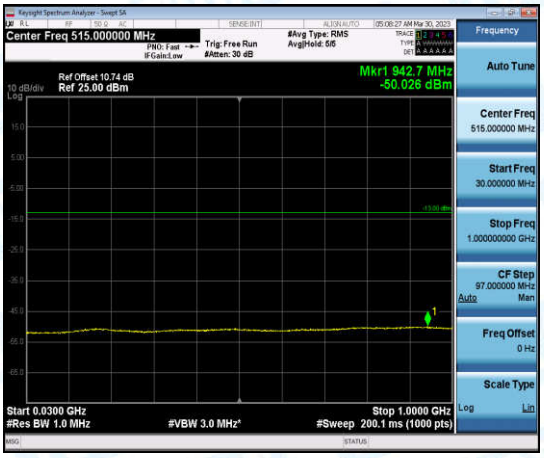


Band2-Stand-Alone-NaN-QPSK-18876-12@0-15kHz-1000-20000-1000~20000MHz@-40.67dBm--13-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.56dBm--43-PASS

Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-0.15-30-0.15~30MHz@-65.67dBm--33-PASS



Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-30-1000-30~1000MHz@-50.03dBm--13-PASS

Band2-Stand-Alone-NaN-QPSK-19199-12@0-15kHz-1000-20000-1000~20000MHz@-40.58dBm--13-PASS

6: Frequency Stability for NB1

6.1 Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	VH	NT	-10.66	-0.005677	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	VL	NT	7.02	0.003739	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	VN	NT	-3.35	-0.001784	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	VH	NT	21.45	0.011424	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	VL	NT	-6.24	-0.003323	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	VN	NT	11.10	0.005912	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	VH	NT	-17.62	-0.009384	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	VL	NT	-19.59	-0.010434	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	VN	NT	-23.38	-0.012452	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	VH	NT	7.58	0.004037	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	VL	NT	7.55	0.004021	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	VN	NT	-8.83	-0.004703	±2.5	PASS

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	60	-8.83	-0.004703	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	-20	8.59	0.004575	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	-10	-5.54	-0.002951	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	0	-9.50	-0.005060	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	10	-8.36	-0.004452	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	20	8.80	0.004687	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	30	-5.91	-0.003148	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	40	-4.01	-0.002136	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@0	NV	-30	-8.43	-0.004490	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	30	4.09	0.002178	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	20	-6.87	-0.003659	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	10	5.48	0.002919	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	0	10.19	0.005427	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	-10	9.88	0.005262	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	40	21.22	0.011302	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	-30	17.64	0.009395	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	60	30.59	0.016292	±2.5	PASS
Band2	Stand-Alone	3.75kHz	QPSK	18876	1@47	NV	-20	5.41	0.002881	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	60	-18.11	-0.009645	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	-20	-18.07	-0.009624	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	-10	-20.10	-0.010705	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	0	-16.90	-0.009001	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	10	-10.41	-0.005544	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	20	6.10	0.003249	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	30	9.00	0.004793	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	40	7.93	0.004223	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@0	NV	-30	11.60	0.006178	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	40	-21.50	-0.011451	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	30	-21.73	-0.011573	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	20	7.56	0.004026	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	10	-18.93	-0.010082	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	0	-21.82	-0.011621	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	-10	-25.76	-0.013720	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	-30	-18.47	-0.009837	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	60	-6.99	-0.003723	±2.5	PASS
Band2	Stand-Alone	15kHz	QPSK	18876	1@11	NV	-20	-27.08	-0.014423	±2.5	PASS

-----END OF THE REPORT-----