

FCC LTE NB-IOT Band25 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°C
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 Band25 Test Data	1
1: Conducted Power Output 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 Output Data for NB1

1.1 Test Result

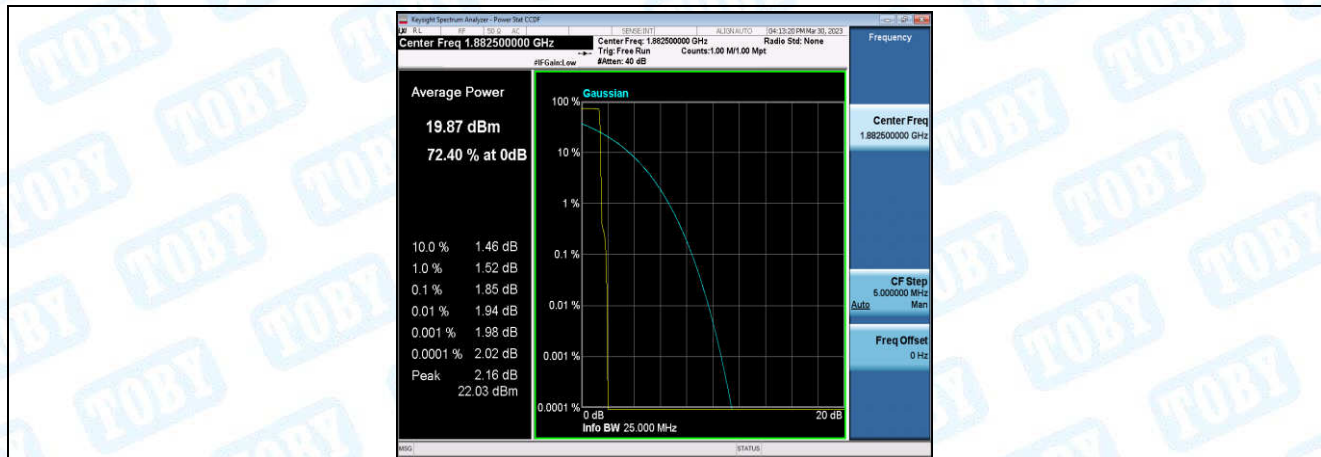
Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band25	Stand-Alone	3.75kHz	BPSK	26041	1@0	23.52	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26041	1@47	23.59	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26365	1@0	23.45	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26365	1@47	23.40	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26689	1@0	23.43	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26689	1@47	23.39	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	23.53	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	23.59	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	23.46	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	23.42	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	23.47	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	23.42	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	23.72	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@11	23.69	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	3@3	23.54	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	1@0	23.52	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	1@11	23.57	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	3@3	23.49	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	23.51	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	23.50	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	3@3	23.55	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	1@0	23.71	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	1@11	23.67	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	3@3	23.51	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	23.55	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	23.63	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	3@3	23.50	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	1@0	23.57	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	1@11	23.55	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	3@3	23.55	PASS

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

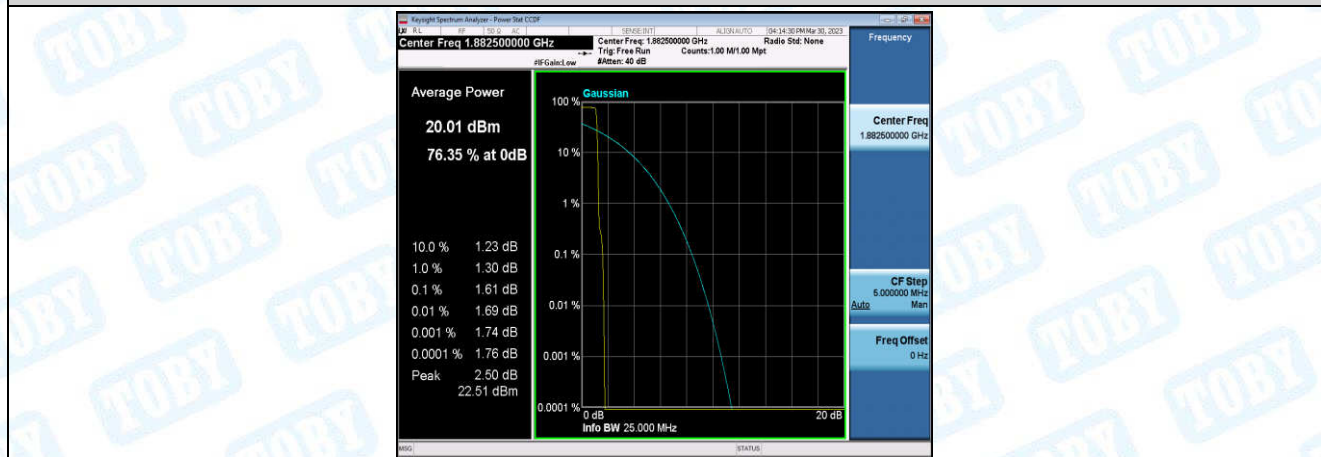
2.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band25	Stand-Alone	3.75kHz	BPSK	26365	1@0	1.85	<=13	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26365	1@47	1.61	<=13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	2.2	<=13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	1.42	<=13	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	1@0	3.31	<=13	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	1@11	4.58	<=13	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	3@3	11.43	<=13	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	3.77	<=13	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	9.25	<=13	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	3@3	8.35	<=13	PASS

2.2 Test Graphs



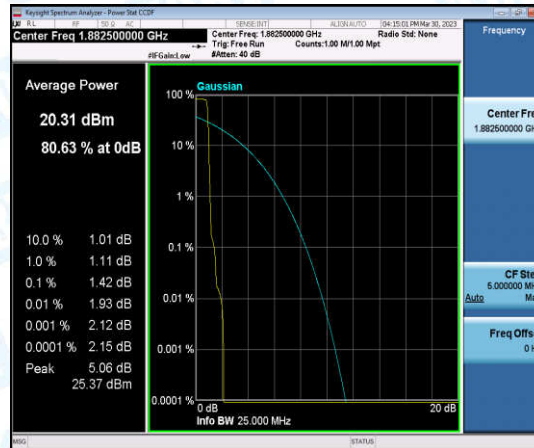
Band25-Stand-Alone-NaN-BPSK-26365-1@0-3.75kHz-1.85-<=13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@47-3.75kHz-1.61-<=13-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-2.2-<=13-PASS



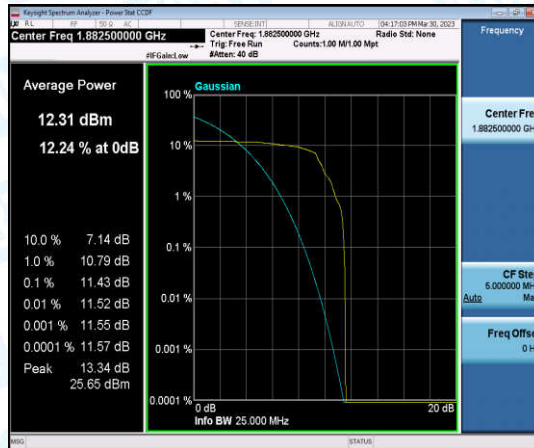
Band25-Stand-Alone-NaN-QPSK-26365-1@47-3.75kHz-1.42-<=13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@0-15kHz-3.31-<=13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@11-15kHz-4.58-<=13-PASS



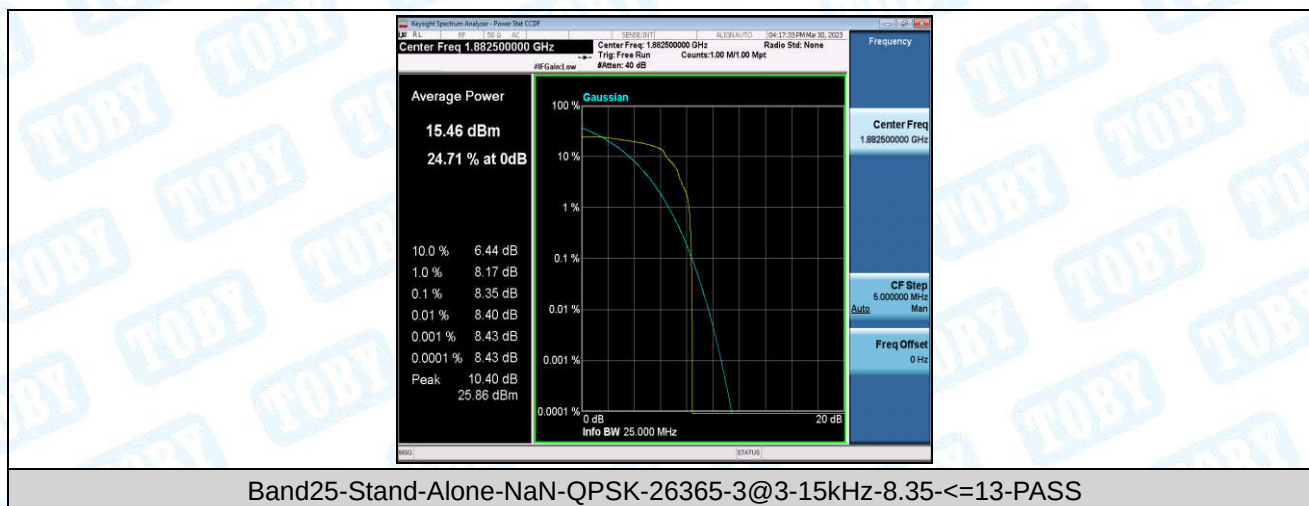
Band25-Stand-Alone-NaN-BPSK-26365-3@3-15kHz-11.43-<=13-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@0-15kHz-3.77-<=13-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@11-15kHz-9.25-<=13-PASS



3: Emission Bandwidth for NB1

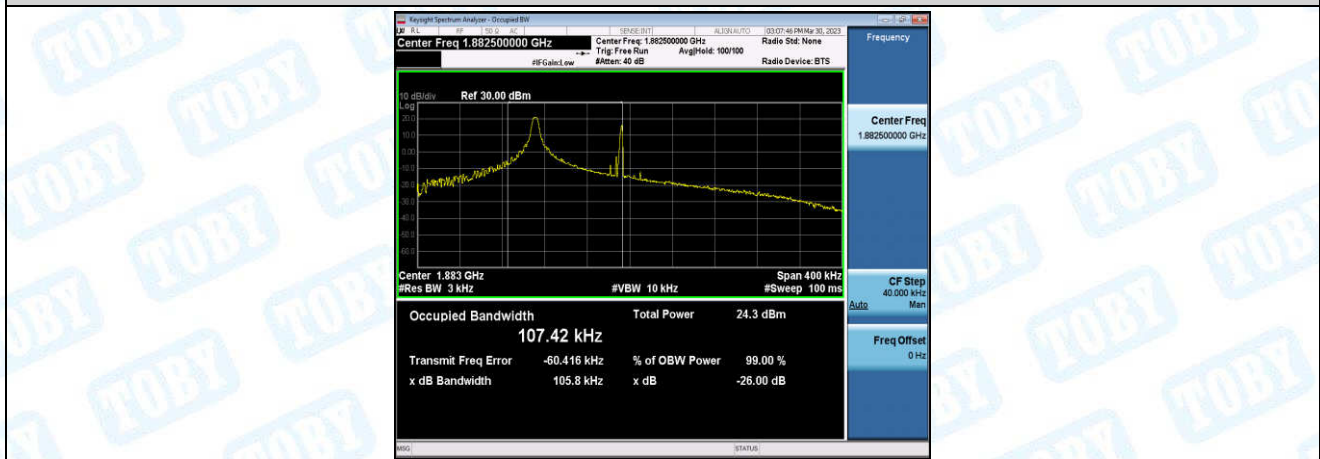
3.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Occupied Bandwidth (MHz)	Result (MHz)	Verdict
Band25	Stand-Alone	3.75kHz	BPSK	26041	1@0	0.0759	0.0506	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26365	1@0	0.1074	0.1058	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26689	1@0	0.0759	0.0509	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	0.0913	0.0544	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	0.0922	0.0538	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	0.0948	0.0542	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	0.1350	0.1273	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	12@0	0.1868	0.2864	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	1@0	0.1402	0.1273	PASS
Band25	Stand-Alone	15kHz	BPSK	26365	12@0	0.1856	0.3166	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	0.1395	0.1274	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	12@0	0.1864	0.3040	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	1@0	0.1422	0.1450	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	0.1867	0.3046	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	0.1418	0.1447	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	12@0	0.1865	0.3087	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	1@0	0.1427	0.1445	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	0.1848	0.3205	PASS

3.2 Test Graphs



Band25-Stand-Alone-NaN-BPSK-26041-1@0-3.75kHz-0.0506-PASS



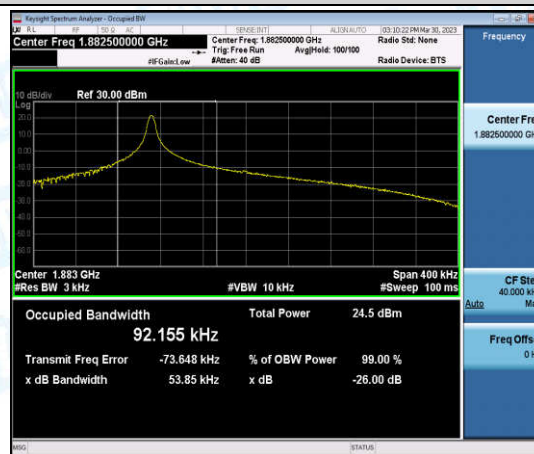
Band25-Stand-Alone-NaN-BPSK-26365-1@0-3.75kHz-0.1058-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@0-3.75kHz-0.0509-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz-0.0544-PASS



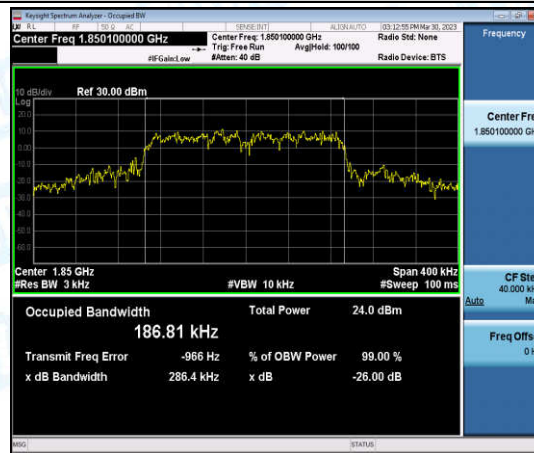
Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-0.0538-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz-0.0542-PASS



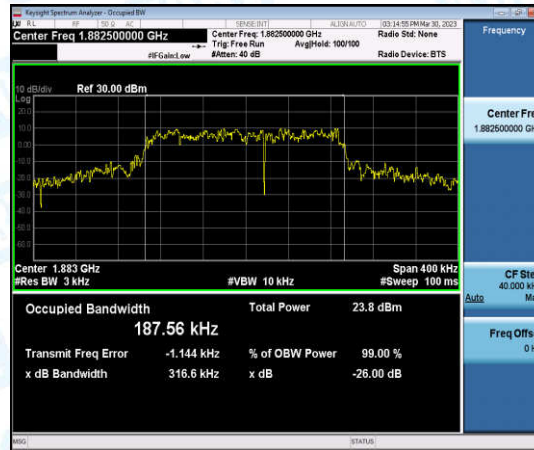
Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz-0.1273-PASS



Band25-Stand-Alone-NaN-BPSK-26041-12@0-15kHz-0.2864-PASS



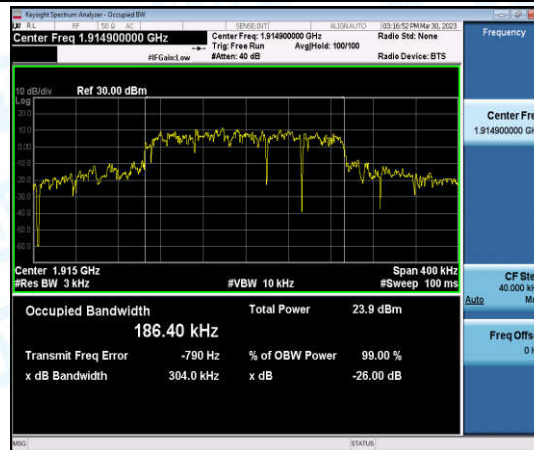
Band25-Stand-Alone-NaN-BPSK-26365-1@0-15kHz-0.1273-PASS



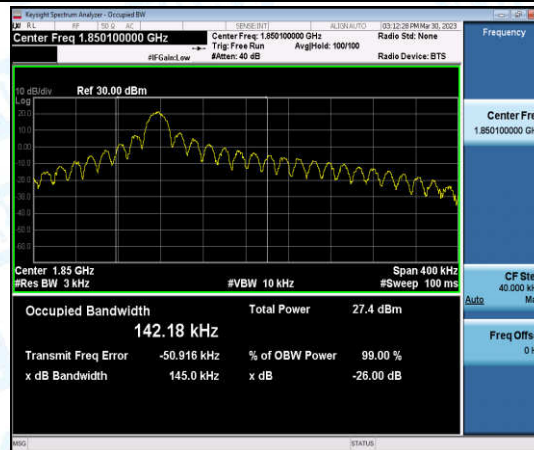
Band25-Stand-Alone-NaN-BPSK-26365-12@0-15kHz-0.3166-PASS



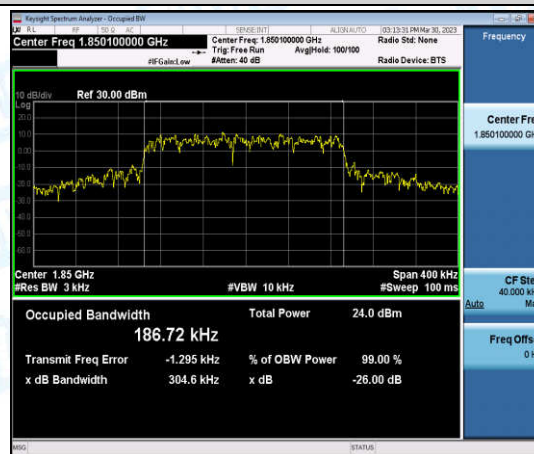
Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz-0.1274-PASS



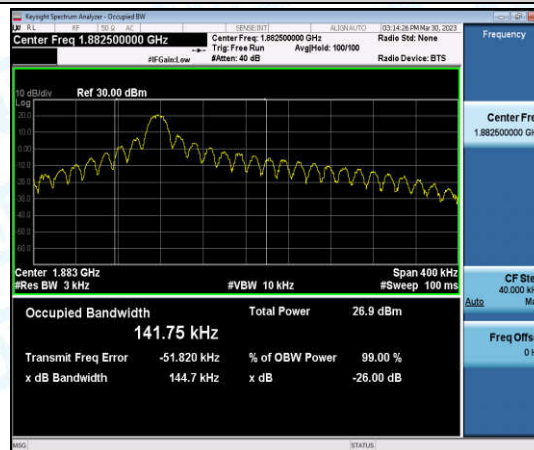
Band25-Stand-Alone-NaN-BPSK-26689-12@0-15kHz-0.3040-PASS



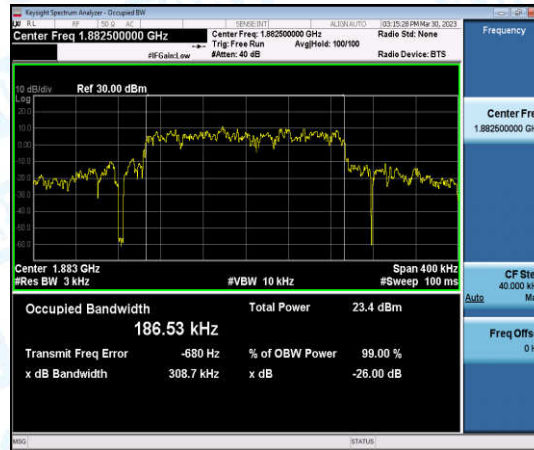
Band25-Stand-Alone-NaN-QPSK-26041-1@0-15kHz-0.1450-PASS



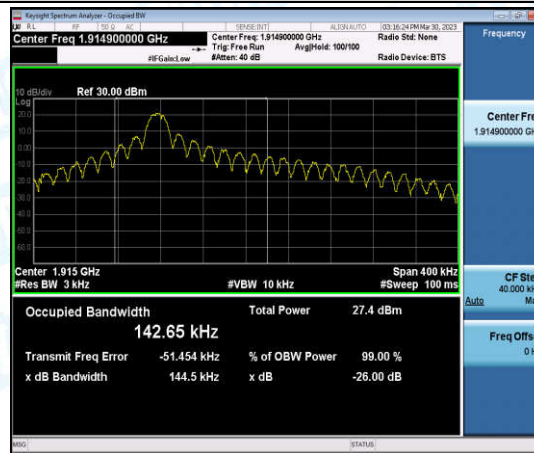
Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz-0.3046-PASS



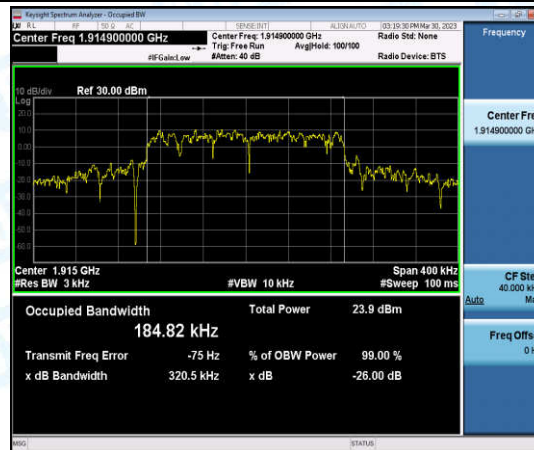
Band25-Stand-Alone-NaN-QPSK-26365-1@0-15kHz-0.1447-PASS



Band25-Stand-Alone-NaN-QPSK-26365-12@0-15kHz-0.3087-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-15kHz-0.1445-PASS



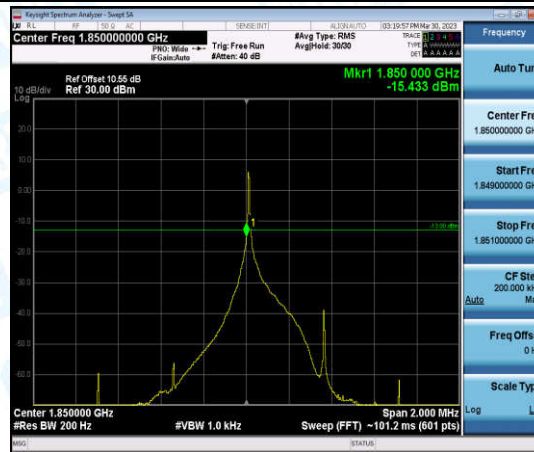
Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz-0.3205-PASS

4: Band Edge for NB1

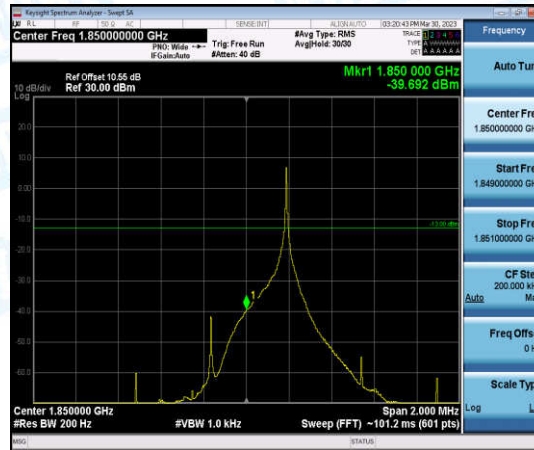
4.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band25	Stand-Alone	3.75kHz	BPSK	26041	1@0	-15.43	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26041	1@47	-39.69	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26689	1@0	-40.04	PASS
Band25	Stand-Alone	3.75kHz	BPSK	26689	1@47	-15.70	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	-17.37	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	-38.66	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	-43.39	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	-18.55	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	-13.61	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@11	-33.12	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	12@0	-35.76	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	-32.46	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	-14.16	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	12@0	-37.12	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	1@0	-15.02	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	1@11	-32.08	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	-37.58	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	1@0	-32.81	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	1@11	-14.10	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	-35.23	PASS

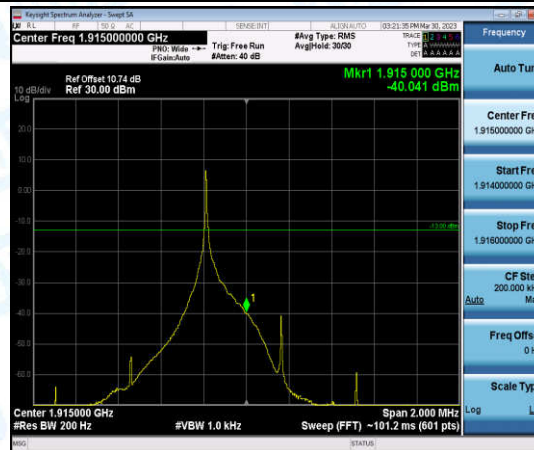
4.2 Test Graphs



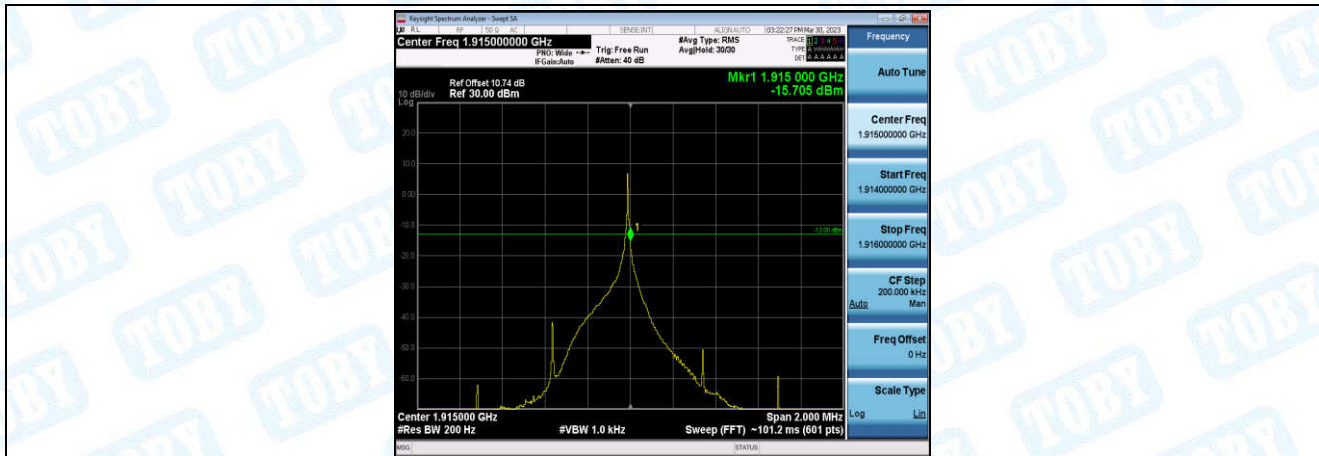
Band25-Stand-Alone-NaN-BPSK-26041-1@0-3.75kHz--15.43-PASS



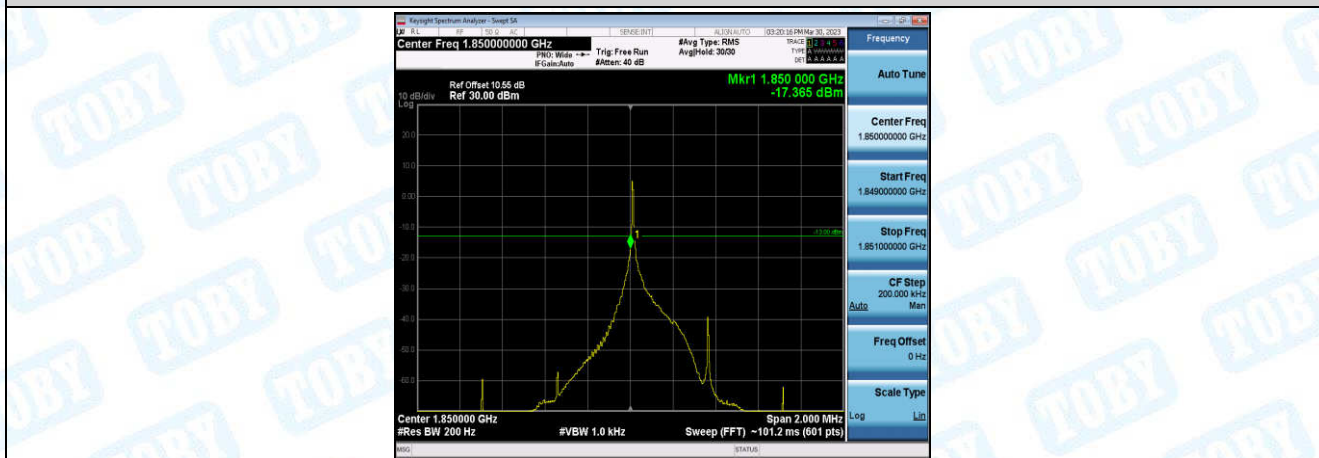
Band25-Stand-Alone-NaN-BPSK-26041-1@47-3.75kHz--39.69-PASS



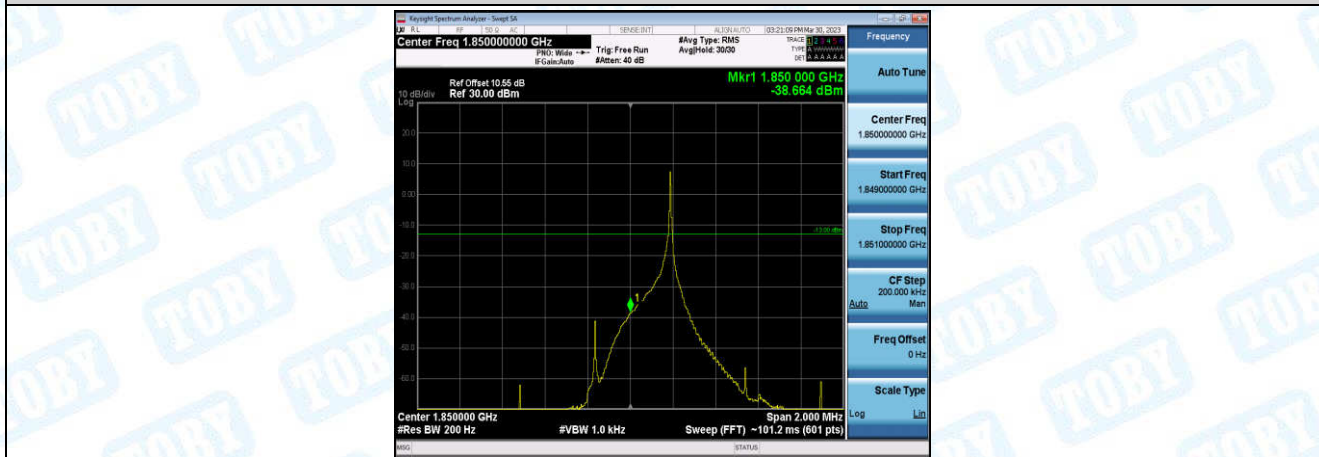
Band25-Stand-Alone-NaN-BPSK-26689-1@0-3.75kHz--40.04-PASS



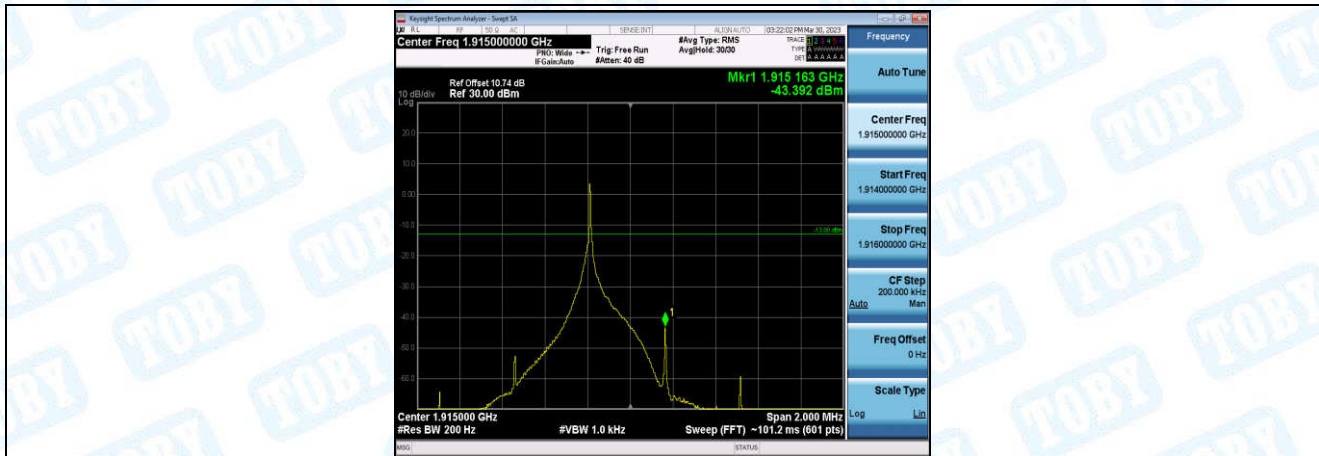
Band25-Stand-Alone-NaN-BPSK-26689-1@47-3.75kHz--15.70-PASS



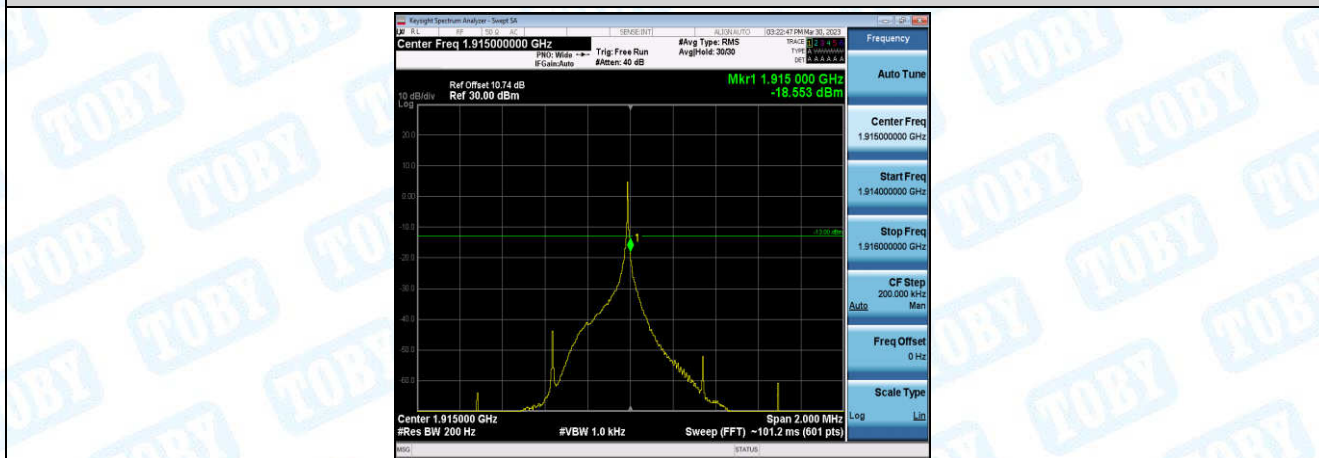
Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz--17.37-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@47-3.75kHz--38.66-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz--43.39-PASS



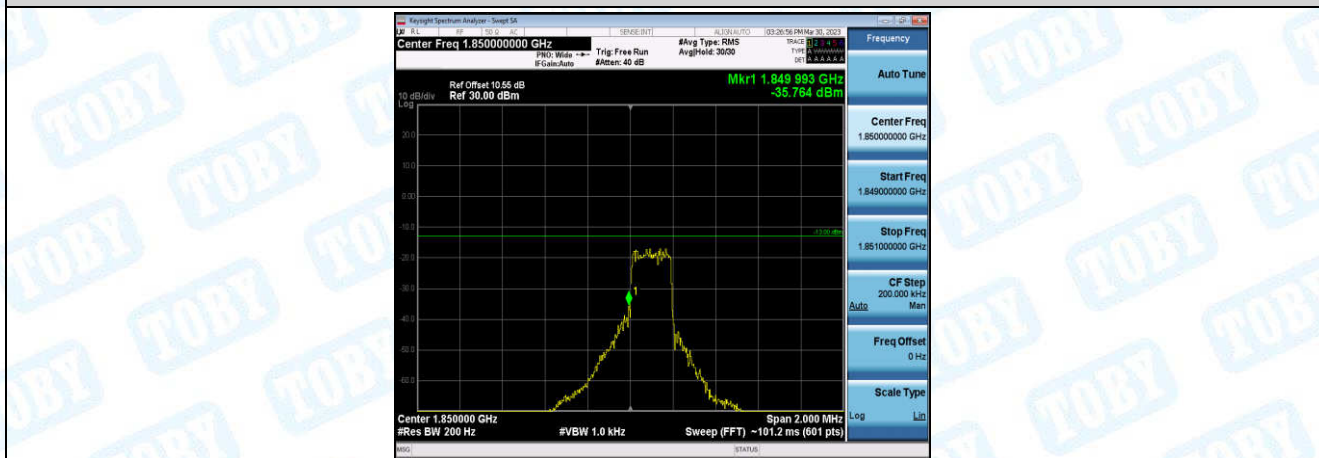
Band25-Stand-Alone-NaN-QPSK-26689-1@47-3.75kHz--18.55-PASS



Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz--13.61-PASS



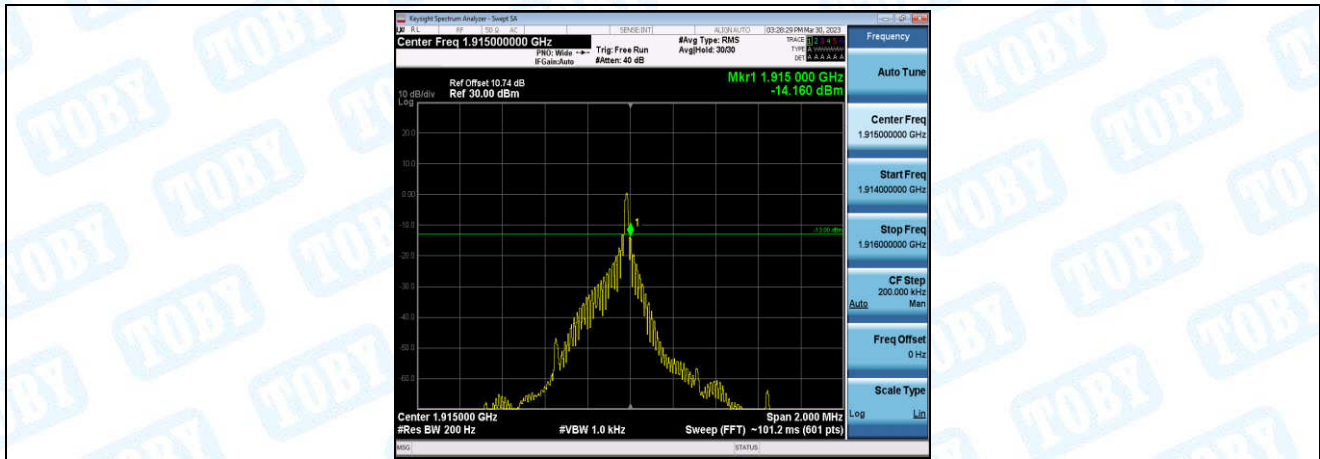
Band25-Stand-Alone-NaN-BPSK-26041-1@11-15kHz--33.12-PASS



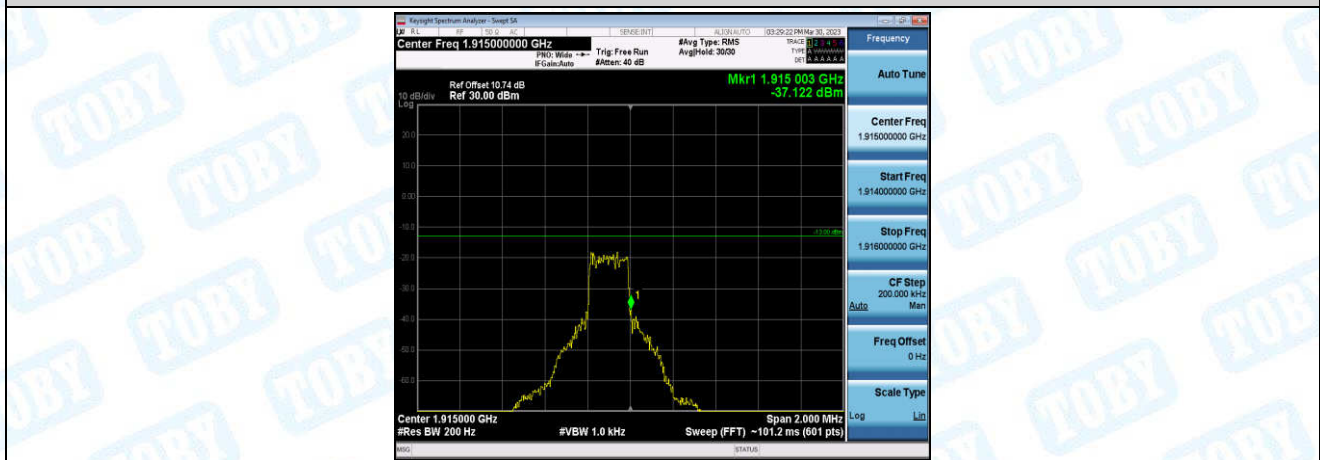
Band25-Stand-Alone-NaN-BPSK-26041-12@0-15kHz--35.76-PASS



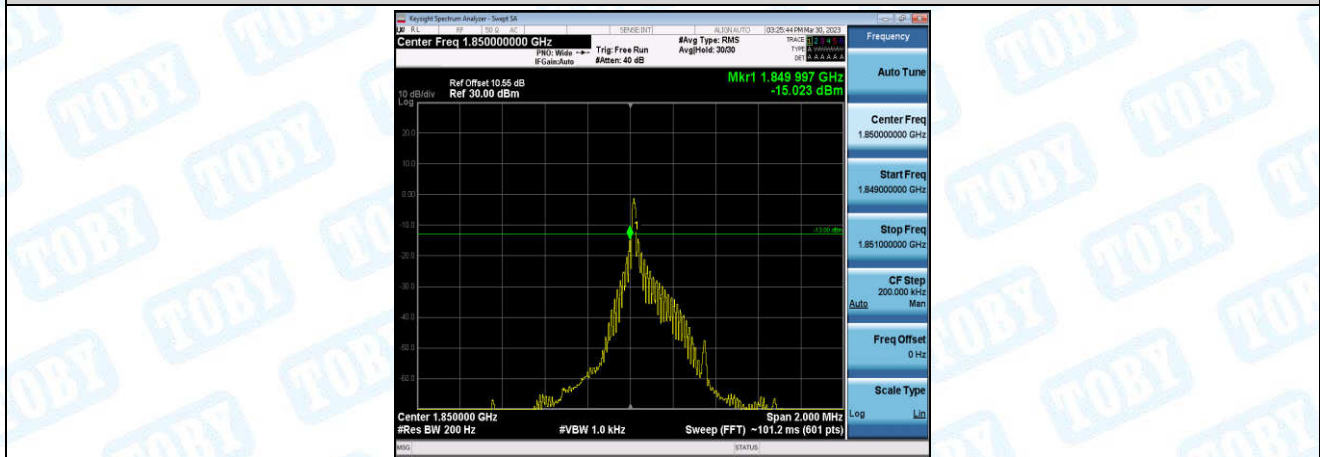
Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz--32.46-PASS



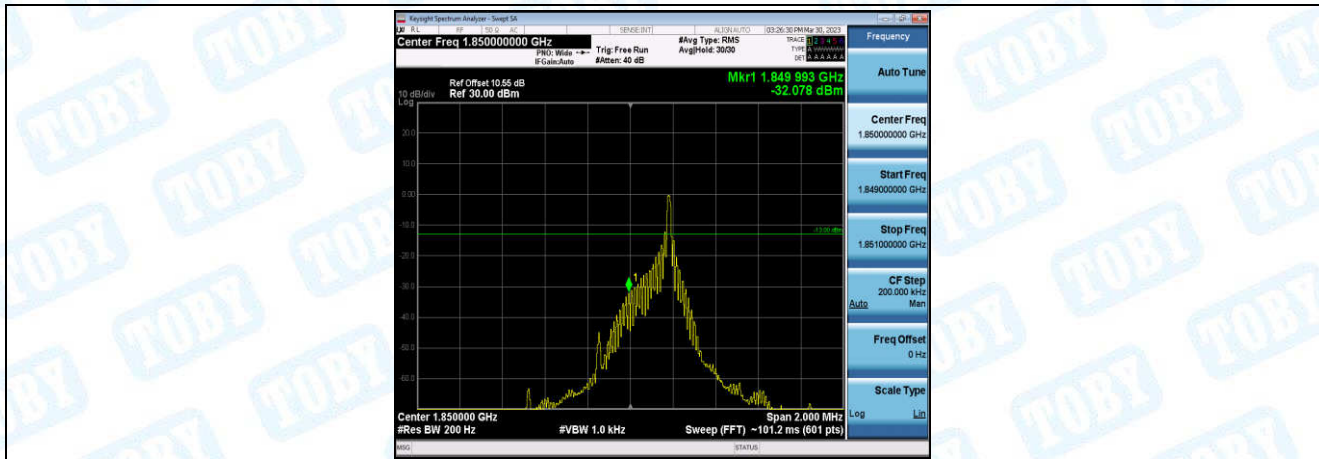
Band25-Stand-Alone-NaN-BPSK-26689-1@11-15kHz--14.16-PASS



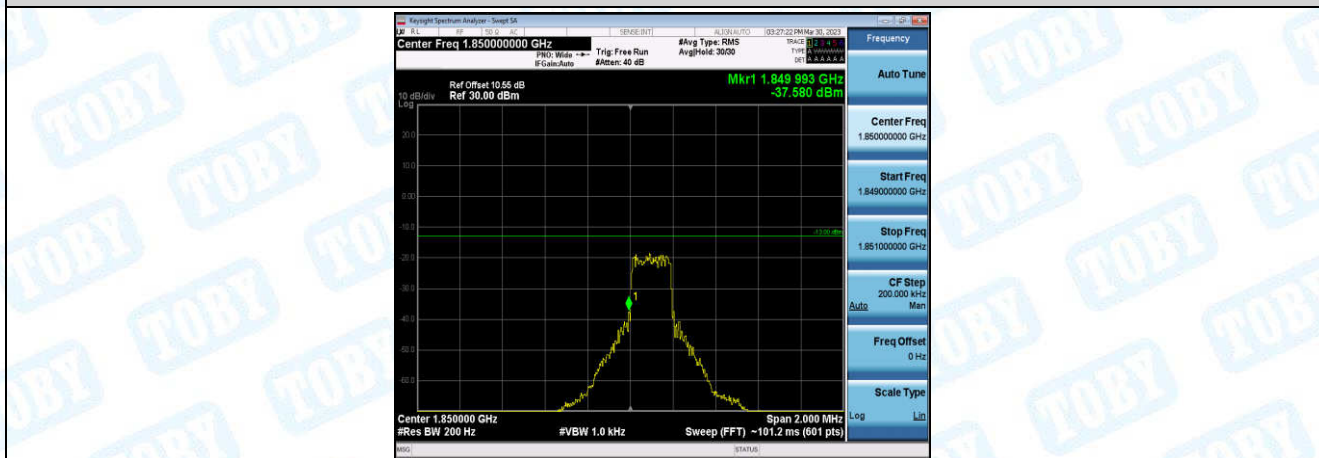
Band25-Stand-Alone-NaN-BPSK-26689-12@0-15kHz--37.12-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@0-15kHz--15.02-PASS



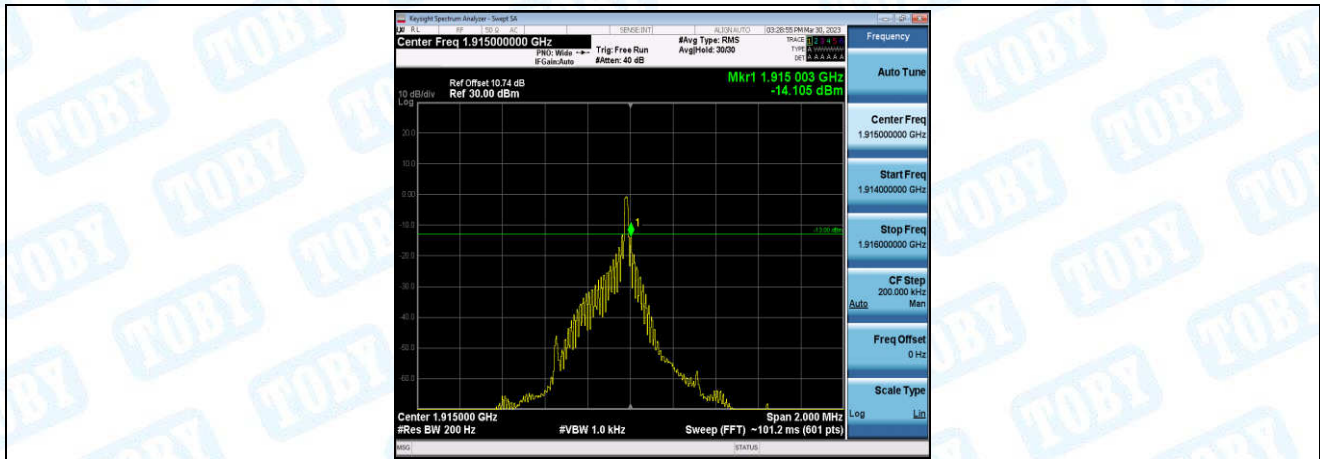
Band25-Stand-Alone-NaN-QPSK-26041-1@11-15kHz--32.08-PASS



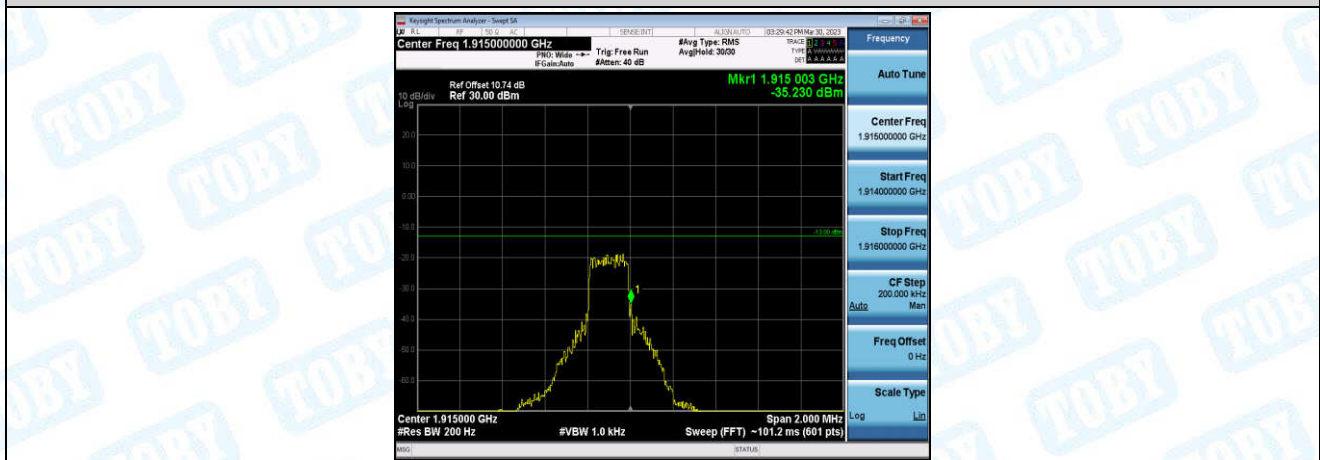
Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz--37.58-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-15kHz--32.81-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@11-15kHz--14.10-PASS



Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz--35.23-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
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	0.009	0.15	0.009~0.15MHz @-61.89dBm	-43	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	0.15	30	0.15~30MHz @-65.19dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	30	1000	30~1000MHz @-50.2dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@0	1000	20000	1000~20000MHz @-40.48dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	0.009	0.15	0.009~0.15MHz @-61.3dBm	-43	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	0.15	30	0.15~30MHz @-66.34dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	30	1000	30~1000MHz @-50.16dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26041	1@47	1000	20000	1000~20000MHz @-40.53dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	0.009	0.15	0.009~0.15MHz @-60.92dBm	-43	PASS

Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	0.15	30	0.15~30MHz @-64.78dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	30	1000	30~1000MHz @-50.05dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	1000	20000	1000~20000MHz @-40.37dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	0.009	0.15	0.009~0.15MHz @-61.01dBm	-43	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	0.15	30	0.15~30MHz @-61.31dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	30	1000	30~1000MHz @-50.13dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	1000	20000	1000~20000MHz @-40.43dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	0.009	0.15	0.009~0.15MHz @-60.92dBm	-43	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	0.15	30	0.15~30MHz @-64.03dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	30	1000	30~1000MHz @-49.85dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@0	1000	20000	1000~20000MHz @-4	-13	PASS

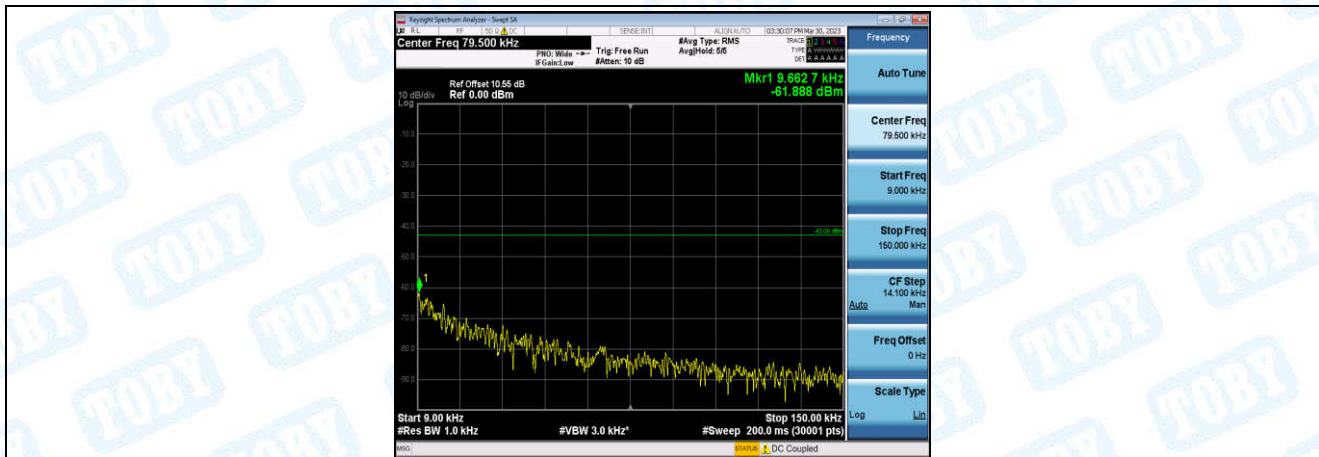
								0.3dBm		
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	0.009	0.15	0.009~0.15MHz@-60.21dBm	-43	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	0.15	30	0.15~30MHz@-65.41dBm	-33	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	30	1000	30~1000MHz@-49.88dBm	-13	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26689	1@47	1000	20000	1000~20000MHz@-40.2dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	0.009	0.15	0.009~0.15MHz@-60.9dBm	-43	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	0.15	30	0.15~30MHz@-67.84dBm	-33	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	30	1000	30~1000MHz@-50.12dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@0	1000	20000	1000~20000MHz@-40.53dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@11	0.009	0.15	0.009~0.15MHz@-60.24dBm	-43	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@11	0.15	30	0.15~30MHz@-64.98dBm	-33	PASS
Band25	Stand-Alone	15kHz	BPSK	26041	1@11	30	1000	30~1000MHz	-13	PASS

								@-50.1 5dBm		
Band25	Stand-Alo ne	15kHz	BPSK	26041	1@11	1000	2000 0	1000~2 0000M Hz@-4 0.69dB m	-13	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@0	0.009	0.15	0.009~ 0.15MH z@-61. 42dBm	-43	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@0	0.15	30	0.15~3 0MHz @-63.3 9dBm	-33	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@0	30	1000	30~100 0MHz @-50.0 3dBm	-13	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@0	1000	2000 0	1000~2 0000M Hz@-4 0.17dB m	-13	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@11	0.009	0.15	0.009~ 0.15MH z@-58. 72dBm	-43	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@11	0.15	30	0.15~3 0MHz @-67.2 8dBm	-33	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@11	30	1000	30~100 0MHz @-50.1 5dBm	-13	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26365	1@11	1000	2000 0	1000~2 0000M Hz@-4 0.48dB m	-13	PASS
Band25	Stand-Alo ne	15kHz	BPSK	26689	1@0	0.009	0.15	0.009~ 0.15MH z@-60. 13dBm	-43	PASS

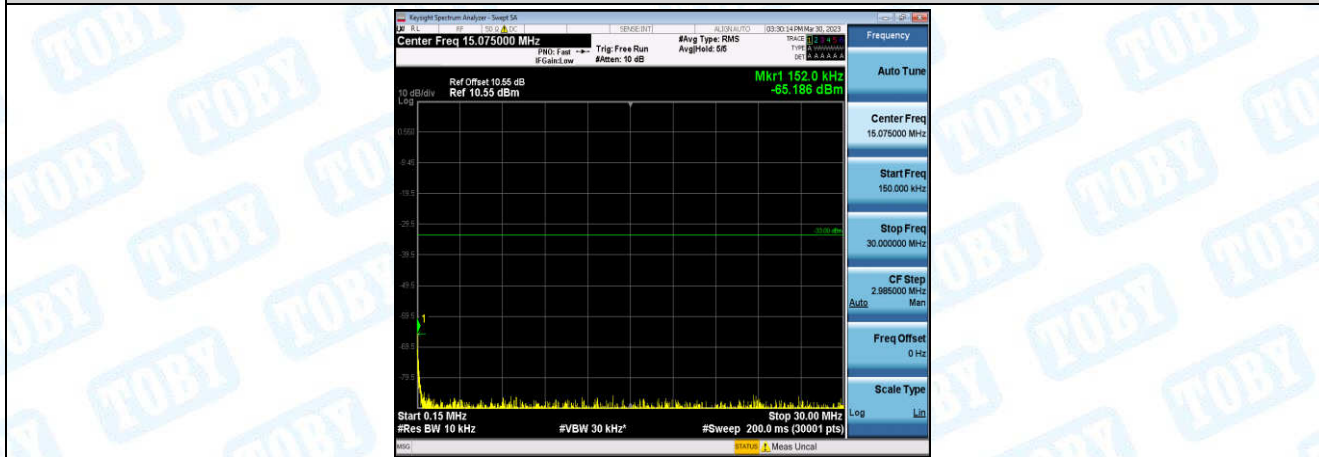
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	0.15	30	0.15~30MHz @-65.11dBm	-33	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	30	1000	30~1000MHz @-50dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@0	1000	20000	1000~20000MHz @-40.41dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	0.009	0.15	0.009~0.15MHz @-62.3dBm	-43	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	0.15	30	0.15~30MHz @-64.33dBm	-33	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	30	1000	30~1000MHz @-49.93dBm	-13	PASS
Band25	Stand-Alone	15kHz	BPSK	26689	1@11	1000	20000	1000~20000MHz @-40.31dBm	-13	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	0.009	0.15	0.009~0.15MHz @-60.49dBm	-43	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	0.15	30	0.15~30MHz @-66.62dBm	-33	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	30	1000	30~1000MHz @-50.18dBm	-13	PASS
Band25	Stand-Alone	15kHz	QPSK	26041	12@0	1000	20000	1000~20000MHz @-4	-13	PASS

								0.44dBm		
Band25	Stand-Alone	15kHz	QPSK	26365	12@0	0.009	0.15	0.009~0.15MHz@-61.97dBm	-43	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	12@0	0.15	30	0.15~30MHz@-67.24dBm	-33	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	12@0	30	1000	30~1000MHz@-50.15dBm	-13	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	12@0	1000	20000	1000~20000MHz@-40.52dBm	-13	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	0.009	0.15	0.009~0.15MHz@-58.41dBm	-43	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	0.15	30	0.15~30MHz@-65.73dBm	-33	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	30	1000	30~1000MHz@-49.94dBm	-13	PASS
Band25	Stand-Alone	15kHz	QPSK	26689	12@0	1000	20000	1000~20000MHz@-40.27dBm	-13	PASS

5.2 Test Graphs



Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.89dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz-0.15-30-0.15~30MHz@-65.19dBm--33-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz-30-1000-30~1000MHz@-50.2dBm--13-PASS

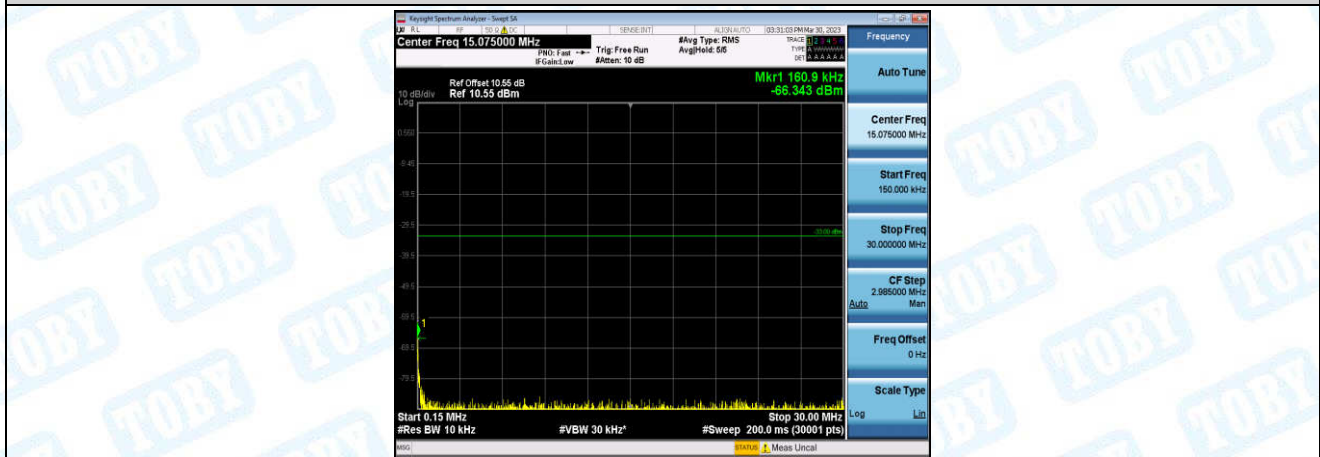


Band25-Stand-Alone-NaN-QPSK-26041-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.48dBm--13-PAS

S



Band25-Stand-Alone-NaN-QPSK-26041-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.3dBm--43-PASS



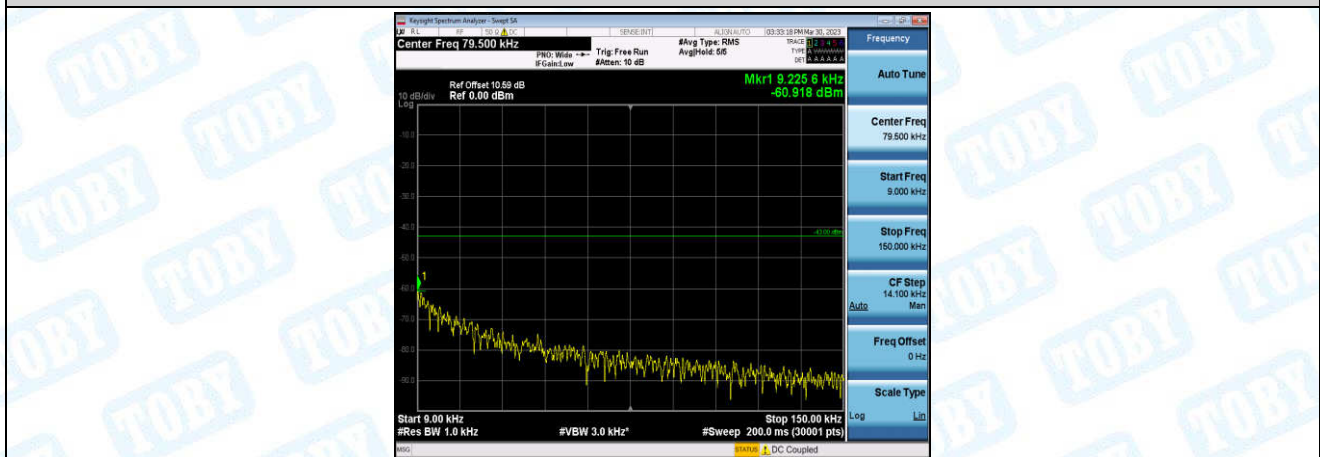
Band25-Stand-Alone-NaN-QPSK-26041-1@47-3.75kHz-0.15-30-0.15~30MHz@-66.34dBm--33-PASS



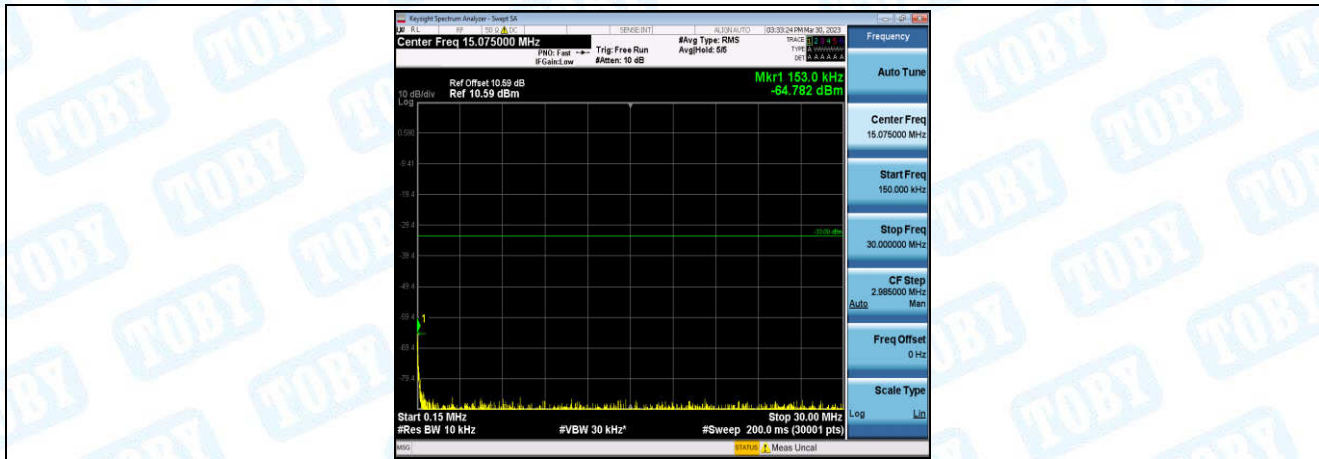
Band25-Stand-Alone-NaN-QPSK-26041-1@47-3.75kHz-30-1000-30~1000MHz@-50.16dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26041-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.53dBm--13-PA
SS



Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.92dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-0.15-30-0.15~30MHz@-64.78dBm--33-PASS

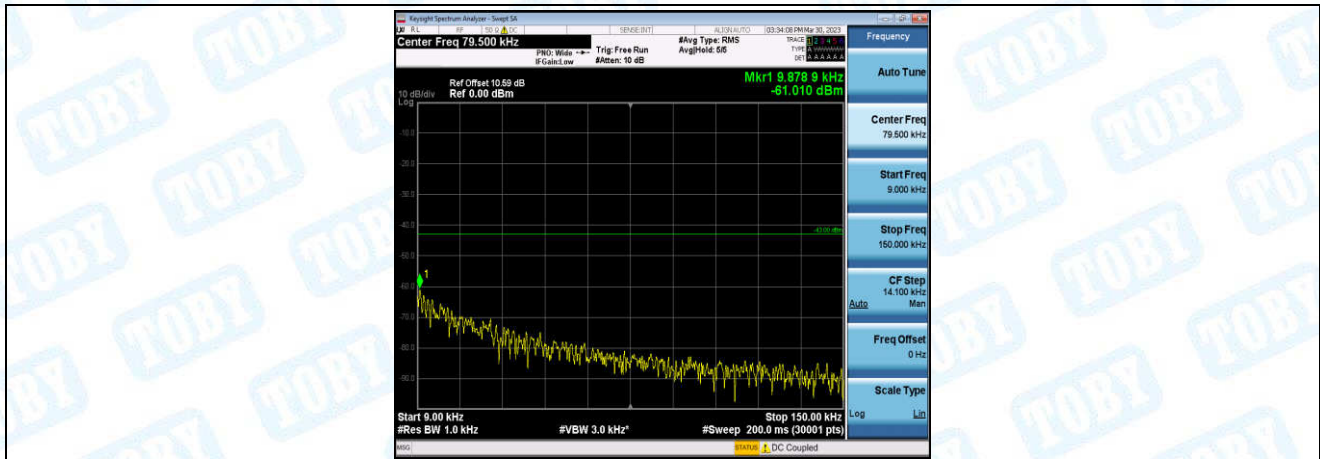


Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-30-1000-30~1000MHz@-50.05dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.37dBm--13-PAS

S



Band25-Stand-Alone-NaN-QPSK-26365-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.01dBm--43-PASS



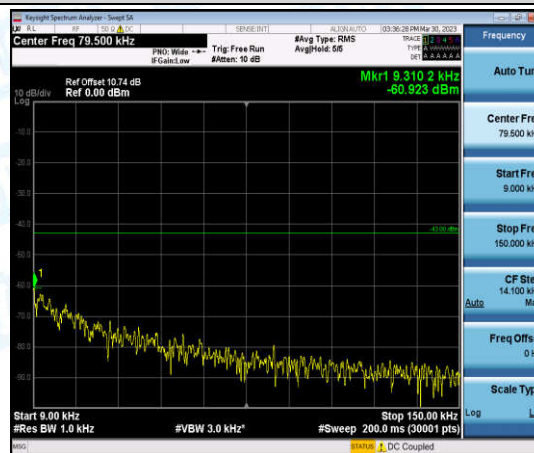
Band25-Stand-Alone-NaN-QPSK-26365-1@47-3.75kHz-0.15-30-0.15~30MHz@-61.31dBm--33-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@47-3.75kHz-30-1000-30~1000MHz@-50.13dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26365-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.43dBm--13-PA
SS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.92dBm--43-PASS



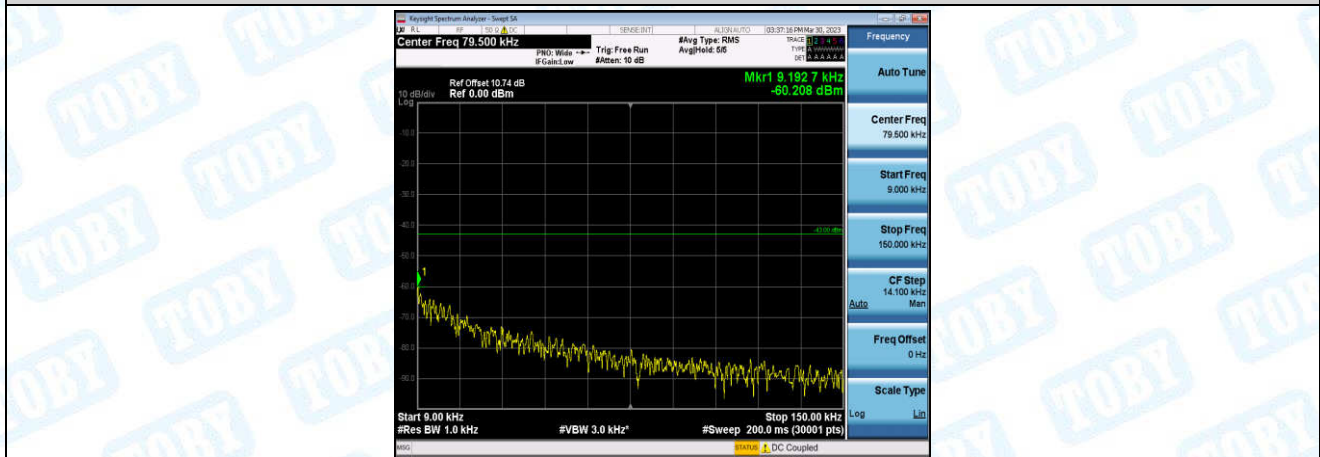
Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz-0.15-30-0.15~30MHz@-64.03dBm--33-PASS



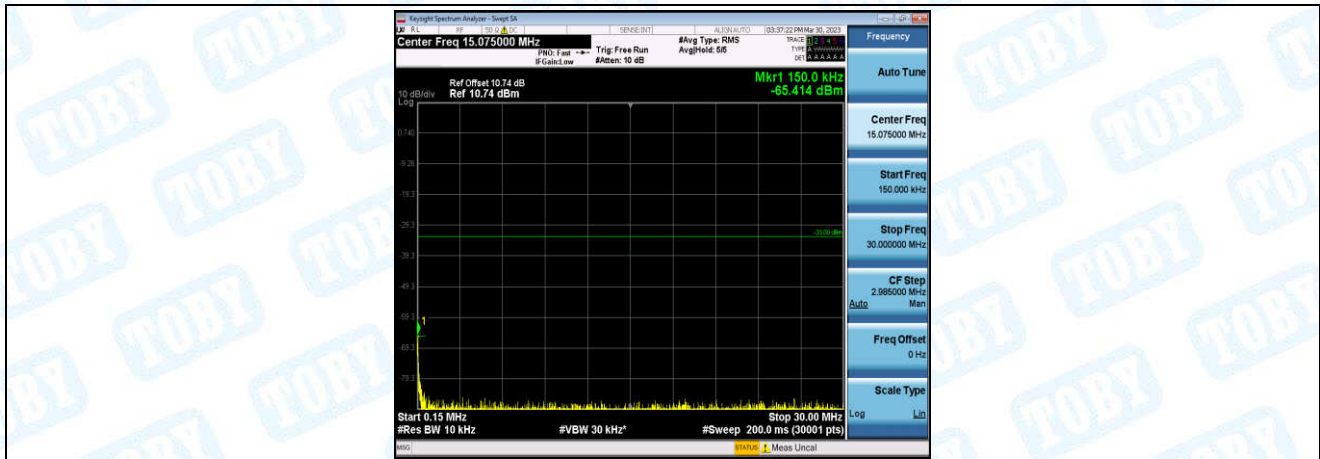
Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz-30-1000-30~1000MHz@-49.85dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.3dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.21dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@47-3.75kHz-0.15-30-0.15~30MHz@-65.41dBm--33-PASS

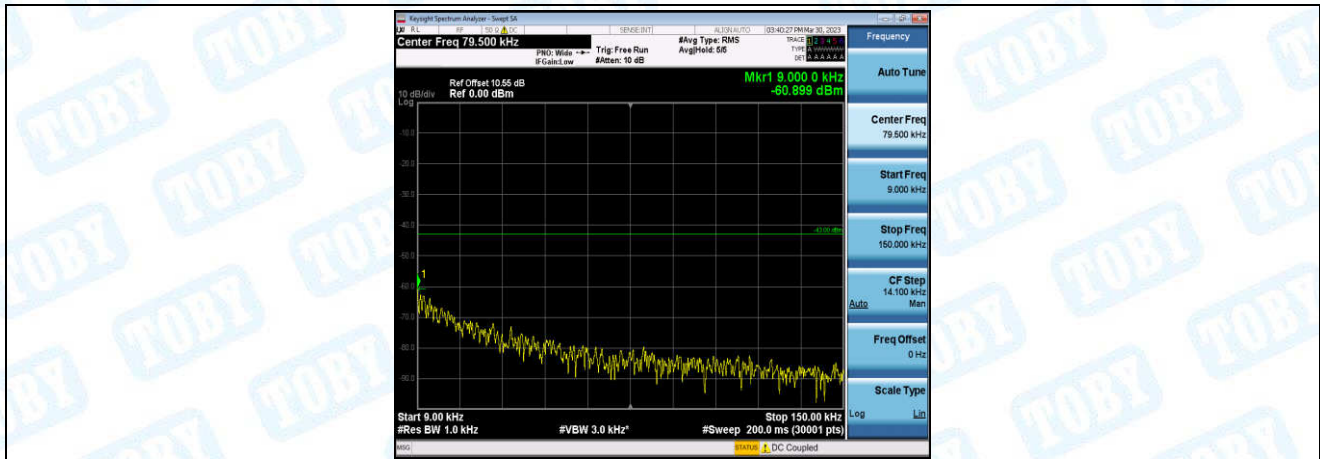


Band25-Stand-Alone-NaN-QPSK-26689-1@47-3.75kHz-30-1000-30~1000MHz@-49.88dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26689-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.2dBm--13-PAS

S



Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.9dBm--43-PASS



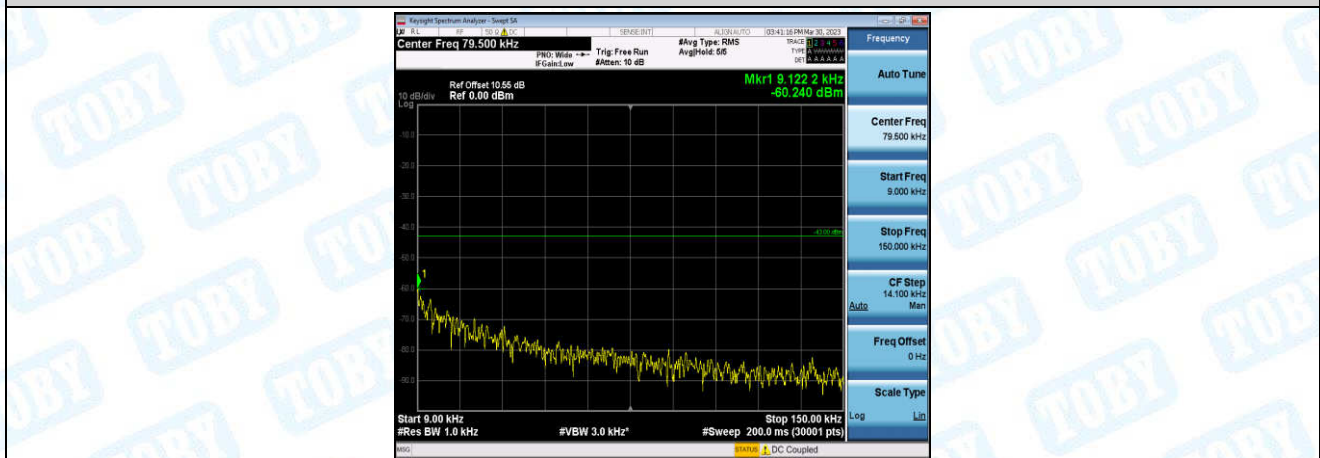
Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz-0.15-30-0.15~30MHz@-67.84dBm--33-PASS



Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz-30-1000-30~1000MHz@-50.12dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26041-1@0-15kHz-1000-20000-1000~20000MHz@-40.53dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26041-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-60.24dBm--43-PASS



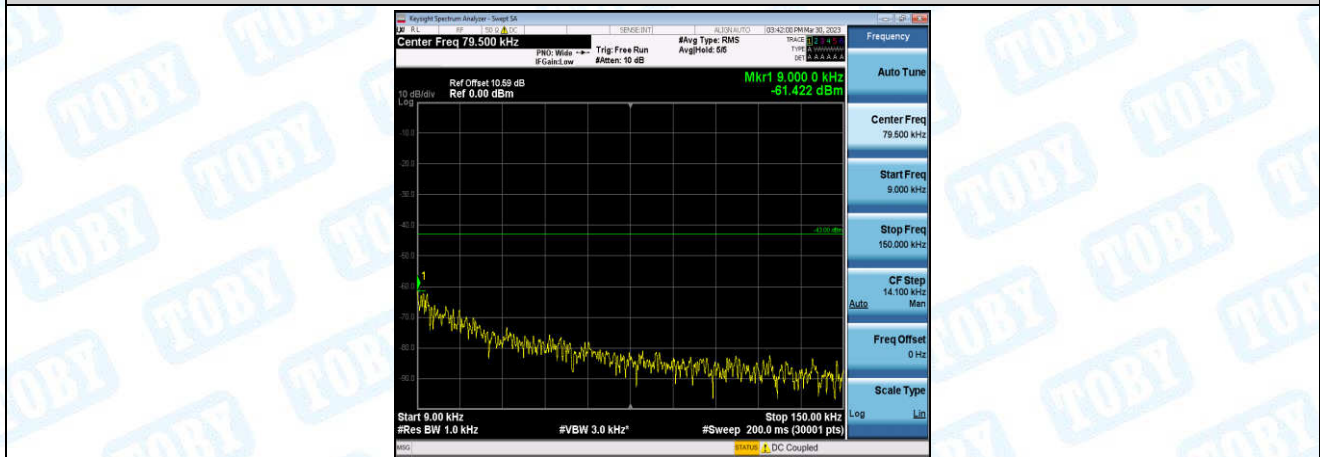
Band25-Stand-Alone-NaN-BPSK-26041-1@11-15kHz-0.15-30-0.15~30MHz@-64.98dBm--33-PASS



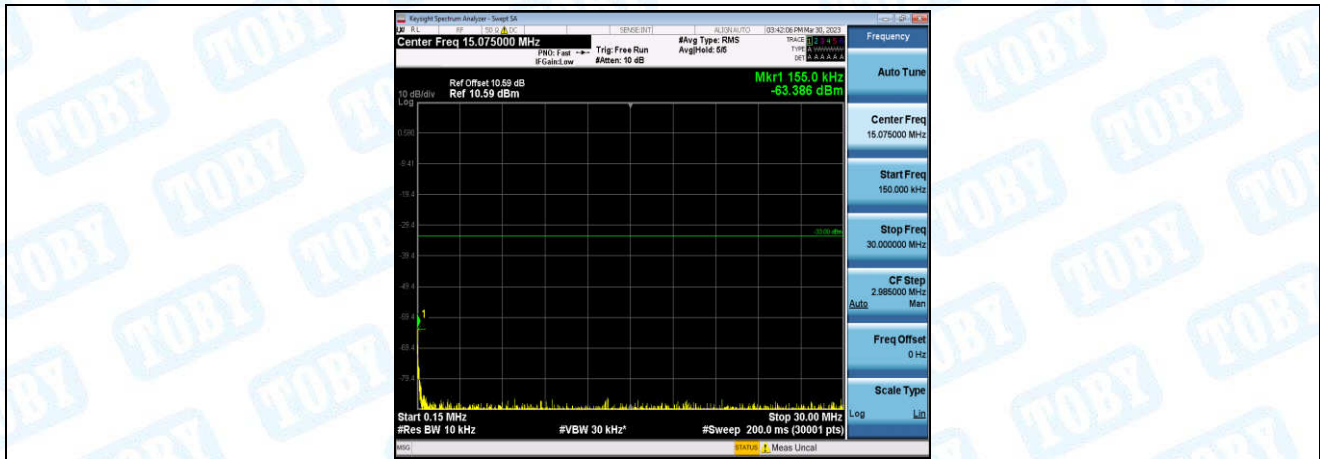
Band25-Stand-Alone-NaN-BPSK-26041-1@11-15kHz-30-1000-30~1000MHz@-50.15dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26041-1@11-15kHz-1000-20000-1000~20000MHz@-40.69dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-61.42dBm--43-PASS



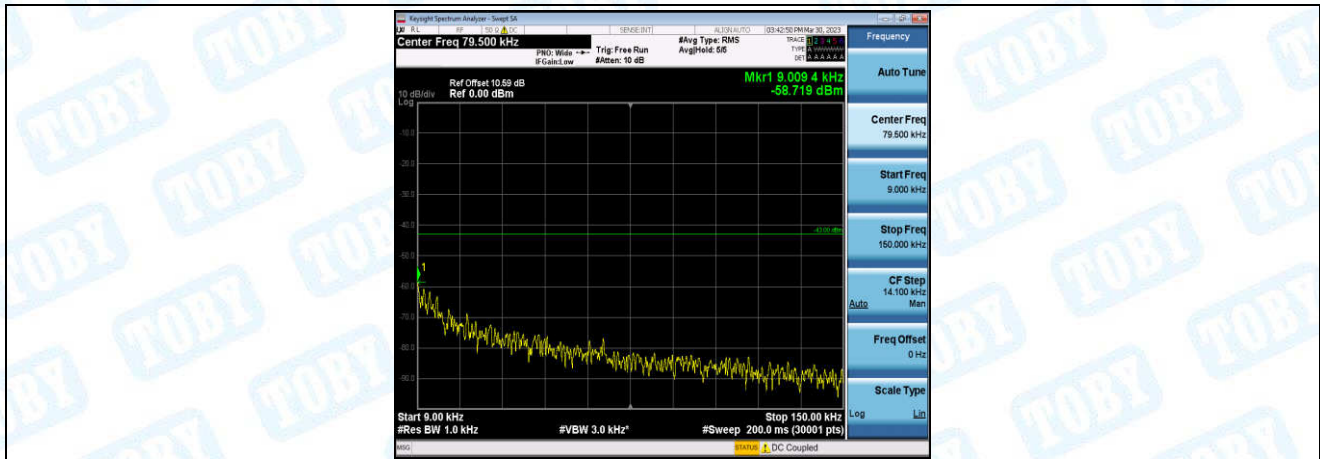
Band25-Stand-Alone-Na-N-BPSK-26365-1@0-15kHz-0.15-30-0.15~30MHz@-63.39dBm--33-PASS



Band25-Stand-Alone-Na-N-BPSK-26365-1@0-15kHz-30-1000-30~1000MHz@-50.03dBm--13-PASS



Band25-Stand-Alone-Na-N-BPSK-26365-1@0-15kHz-1000-20000-1000~20000MHz@-40.17dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-58.72dBm--43-PASS



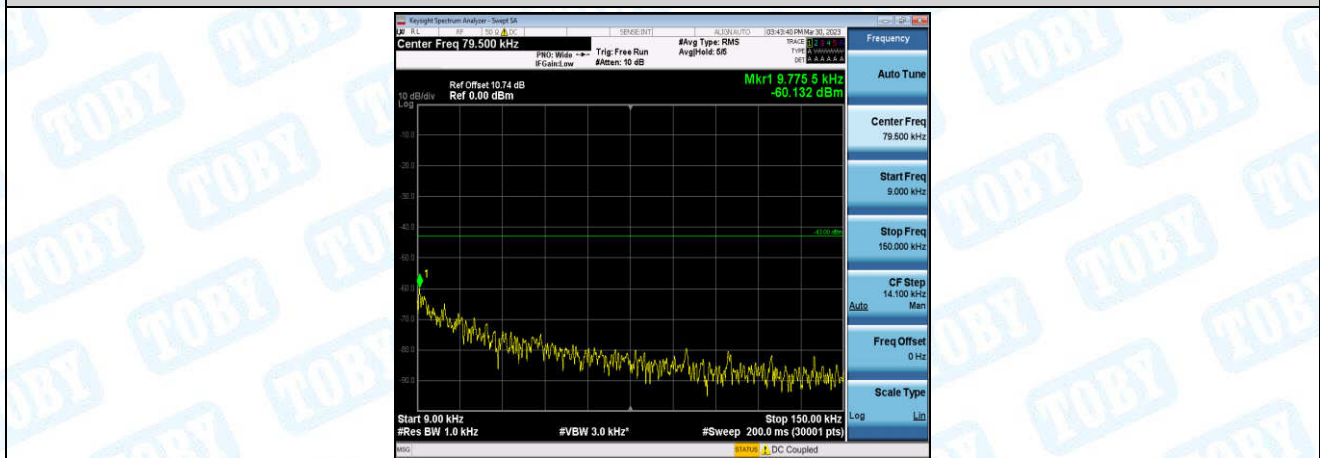
Band25-Stand-Alone-NaN-BPSK-26365-1@11-15kHz-0.15-30-0.15~30MHz@-67.28dBm--33-PASS



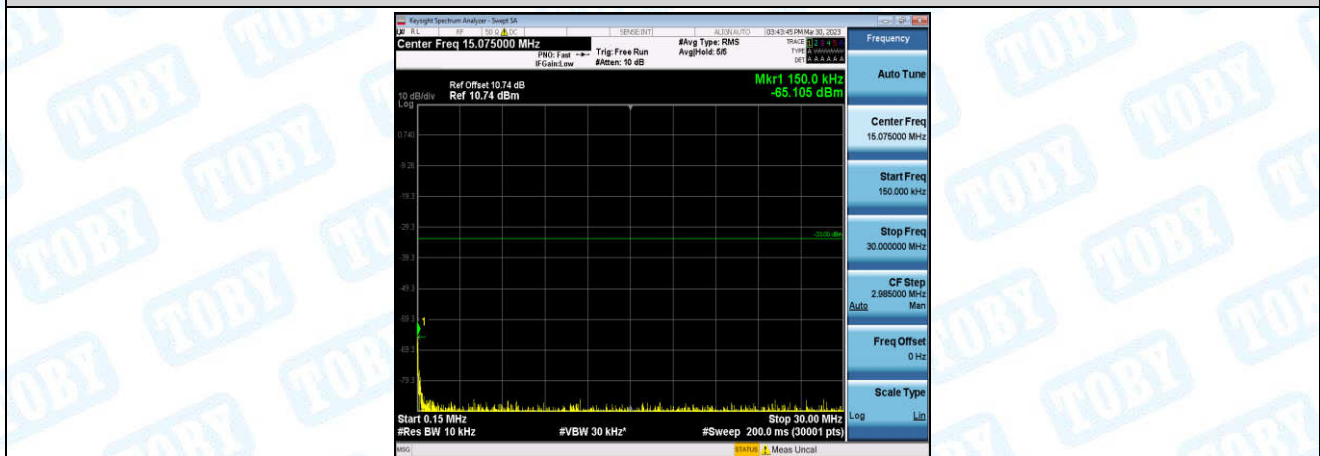
Band25-Stand-Alone-NaN-BPSK-26365-1@11-15kHz-30-1000-30~1000MHz@-50.15dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26365-1@11-15kHz-1000-20000-1000~20000MHz@-40.48dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.13dBm--43-PASS



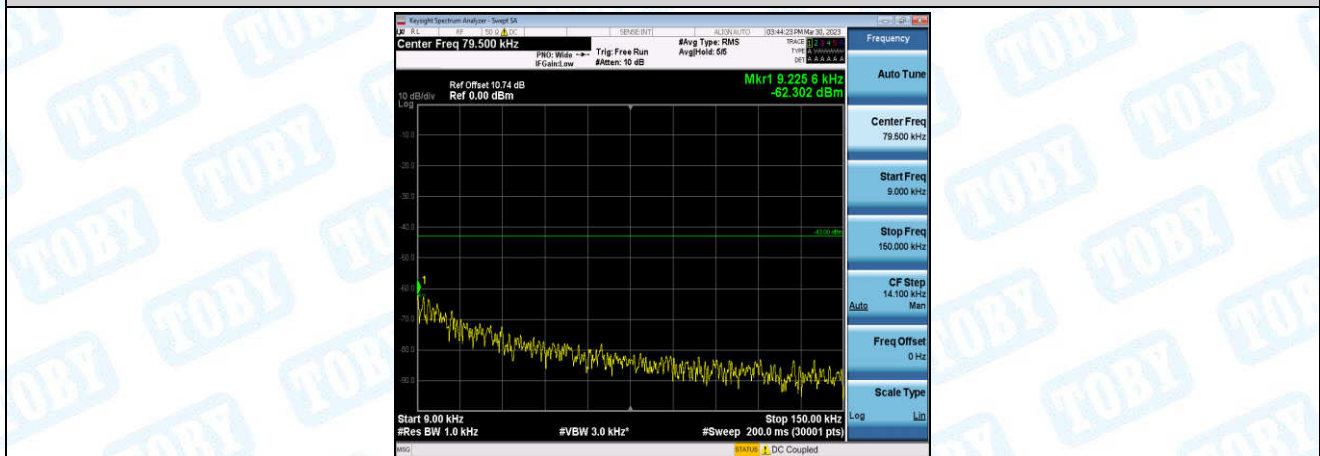
Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz-0.15-30-0.15~30MHz@-65.11dBm--33-PASS



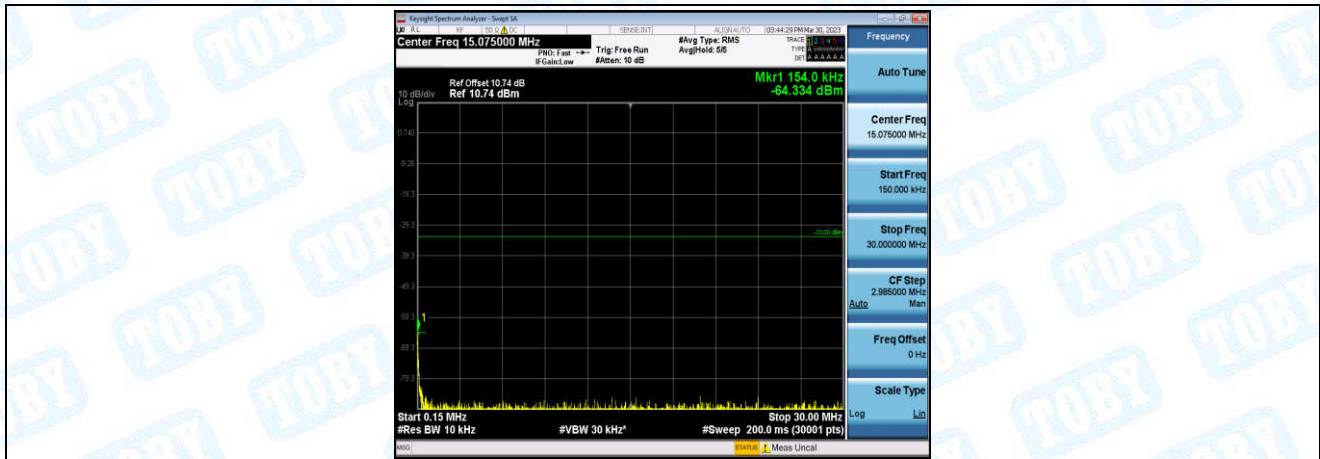
Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz-30-1000-30~1000MHz@-50dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@0-15kHz-1000-20000-1000~20000MHz@-40.41dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-62.3dBm--43-PASS



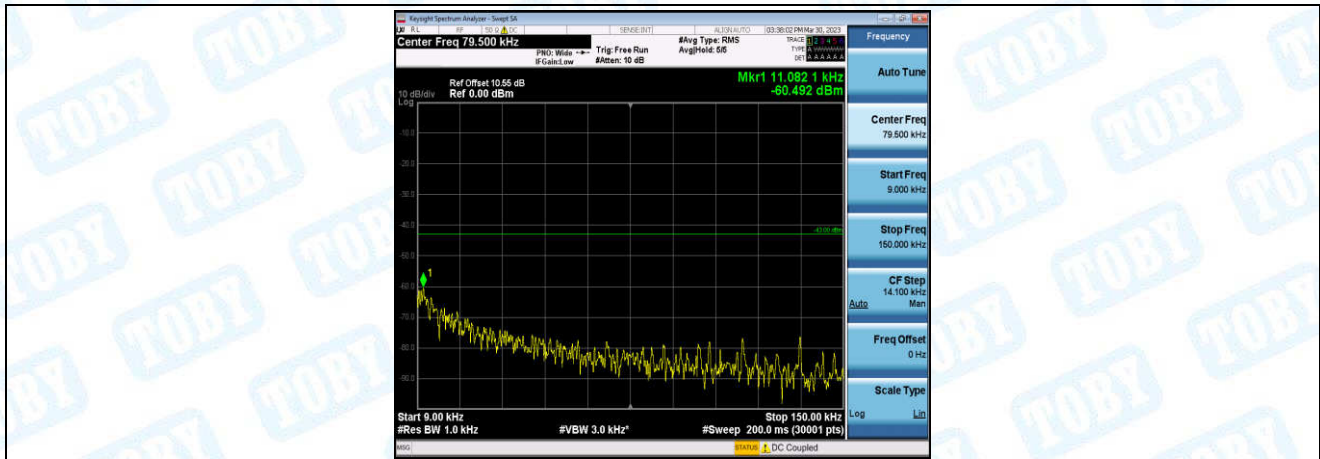
Band25-Stand-Alone-NaN-BPSK-26689-1@11-15kHz-0.15-30-0.15~30MHz@-64.33dBm--33-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@11-15kHz-30-1000-30~1000MHz@-49.93dBm--13-PASS



Band25-Stand-Alone-NaN-BPSK-26689-1@11-15kHz-1000-20000-1000~20000MHz@-40.31dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.49dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz-0.15-30-0.15~30MHz@-66.62dBm--33-PASS

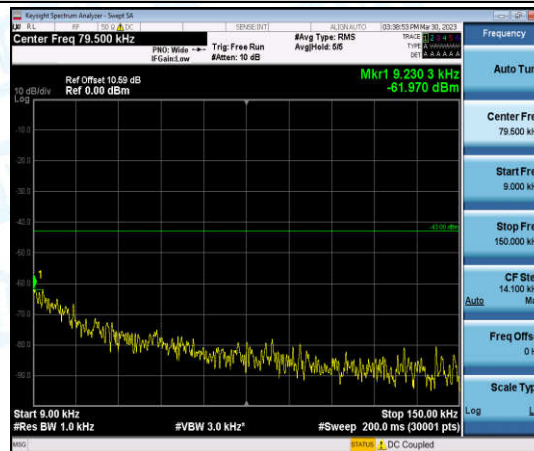


Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz-30-1000-30~1000MHz@-50.18dBm--13-PASS

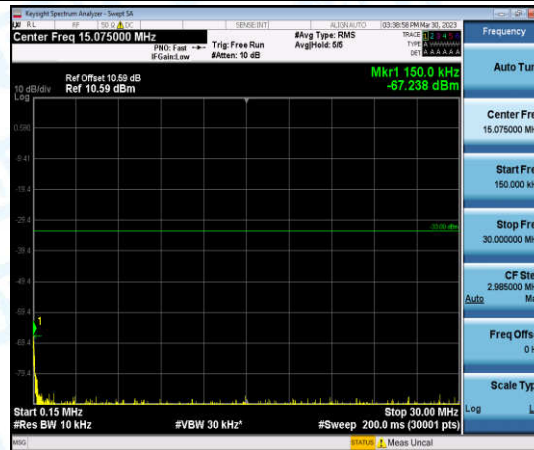


Band25-Stand-Alone-NaN-QPSK-26041-12@0-15kHz-1000-20000-1000~20000MHz@-40.44dBm--13-PAS

S



Band25-Stand-Alone-NaN-QPSK-26365-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-61.97dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26365-12@0-15kHz-0.15-30-0.15~30MHz@-67.24dBm--33-PASS

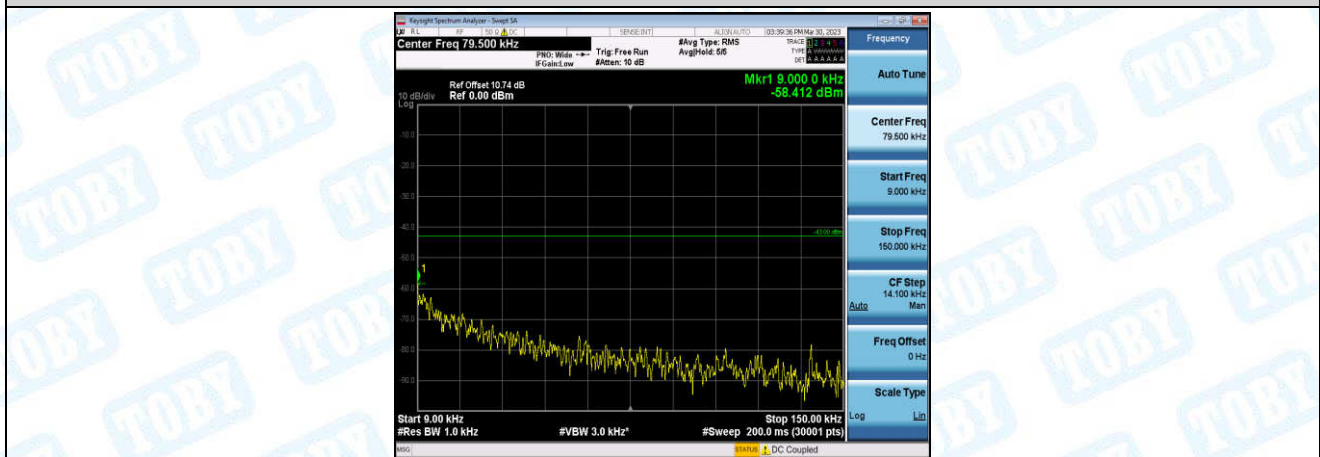


Band25-Stand-Alone-NaN-QPSK-26365-12@0-15kHz-30-1000-30~1000MHz@-50.15dBm--13-PASS

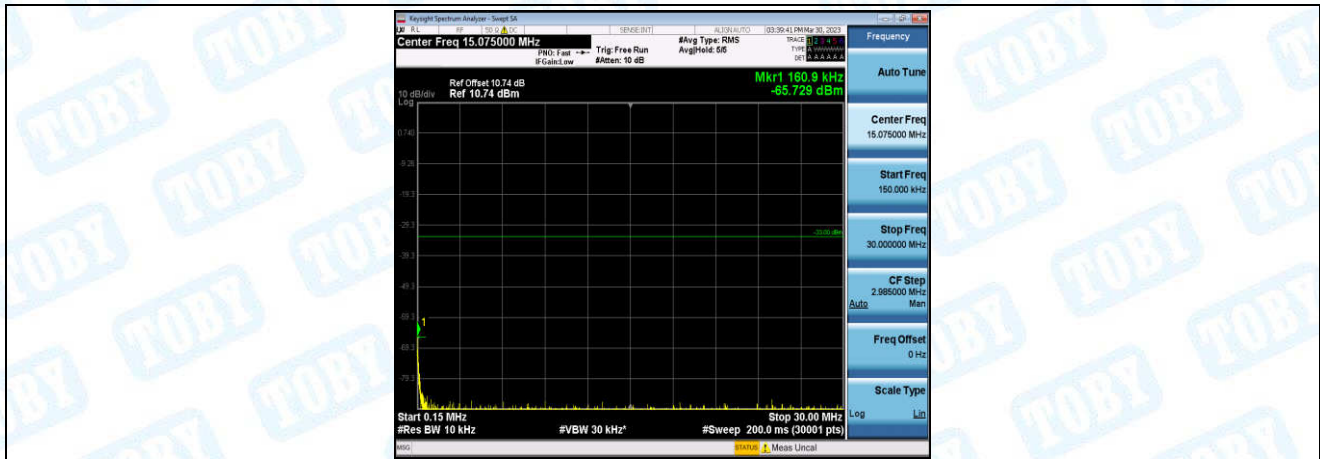


Band25-Stand-Alone-NaN-QPSK-26365-12@0-15kHz-1000-20000-1000~20000MHz@-40.52dBm--13-PAS

S



Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-58.41dBm--43-PASS



Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz-0.15-30-0.15~30MHz@-65.73dBm--33-PASS



Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz-30-1000-30~1000MHz@-49.94dBm--13-PASS



Band25-Stand-Alone-NaN-QPSK-26689-12@0-15kHz-1000-20000-1000~20000MHz@-40.27dBm--13-PAS

S

6: Frequency Stability for NB1

6.1 Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	VH	NT	17.51	0.009301	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	VL	NT	16.07	0.008537	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	VN	NT	13.32	0.007076	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	VH	NT	25.95	0.013785	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	VL	NT	20.37	0.010821	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	VN	NT	18.24	0.009689	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	VH	NT	-10.44	-0.005546	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	VL	NT	-11.97	-0.006359	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	VN	NT	-14.54	-0.007724	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	VH	NT	24.19	0.012850	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	VL	NT	-24.15	-0.012829	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	VN	NT	-7.12	-0.003782	±2.5	PASS

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	60	16.11	0.008558	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	-20	11.24	0.005971	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	-10	-12.09	-0.006422	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	0	15.89	0.008441	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	10	16.11	0.008558	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	20	4.12	0.002189	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	30	6.72	0.003570	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	40	15.44	0.008202	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@0	NV	-30	18.67	0.009918	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	30	20.68	0.010985	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	20	12.31	0.006539	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	10	9.04	0.004802	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	0	19.70	0.010465	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	-10	18.35	0.009748	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	40	21.00	0.011155	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	-30	30.41	0.016154	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	60	9.21	0.004892	±2.5	PASS
Band25	Stand-Alone	3.75kHz	QPSK	26365	1@47	NV	-20	12.86	0.006831	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	60	-14.11	-0.007495	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	-20	-14.22	-0.007554	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	-10	7.40	0.003931	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	0	13.34	0.007086	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	10	-15.79	-0.008388	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	20	21.89	0.011628	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	30	8.27	0.004393	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	40	14.27	0.007580	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@0	NV	-30	-16.62	-0.008829	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	40	6.81	0.003618	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	30	-11.14	-0.005918	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	20	-13.69	-0.007272	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	10	-14.40	-0.007649	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	0	-19.32	-0.010263	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	-10	22.67	0.012042	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	-30	11.67	0.006199	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	60	-16.72	-0.008882	±2.5	PASS
Band25	Stand-Alone	15kHz	QPSK	26365	1@11	NV	-20	16.10	0.008552	±2.5	PASS

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