

FCC LTE NB-IOT Band66 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.	

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1: Conducted Power Output Data for NB1

1.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	BPSK	131973	1@0	23.56	PASS
Band66	Stand-Alone	3.75kHz	BPSK	131973	1@47	23.64	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132322	1@0	23.63	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132322	1@47	23.68	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132671	1@0	23.54	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132671	1@47	23.56	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	23.56	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	23.53	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	23.62	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	23.55	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	23.56	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	23.50	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	23.75	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@11	23.73	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	3@3	23.59	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	23.69	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	23.71	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	3@3	23.66	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	23.64	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	23.63	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	3@3	23.52	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	1@0	23.61	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	1@11	23.74	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	3@3	23.59	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	23.70	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	23.69	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	3@3	23.66	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	1@0	23.54	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	1@11	23.65	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	3@3	23.56	PASS

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

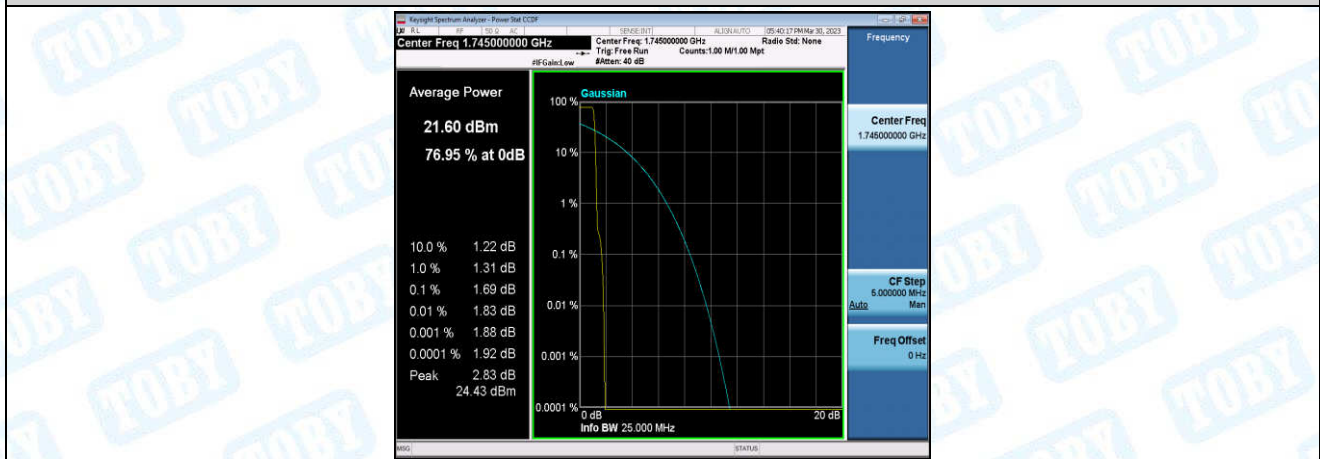
2.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	BPSK	132322	1@0	1.8	<=13	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132322	1@47	1.69	<=13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	2.58	<=13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	2.3	<=13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	4.01	<=13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	3.01	<=13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	3@3	9.05	<=13	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	7.63	<=13	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	8.74	<=13	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	3@3	8.82	<=13	PASS

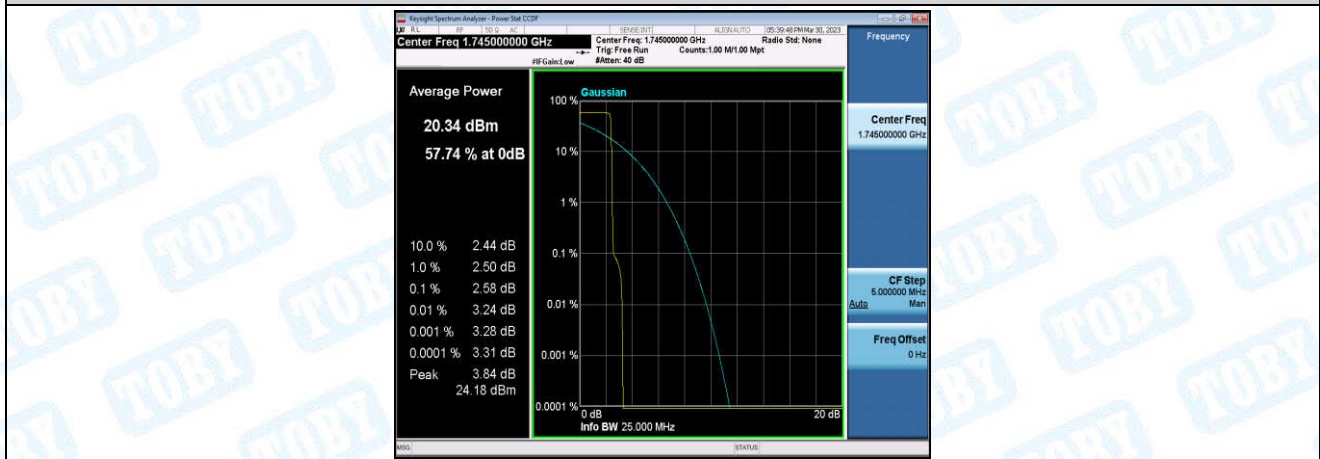
2.2 Test Graphs



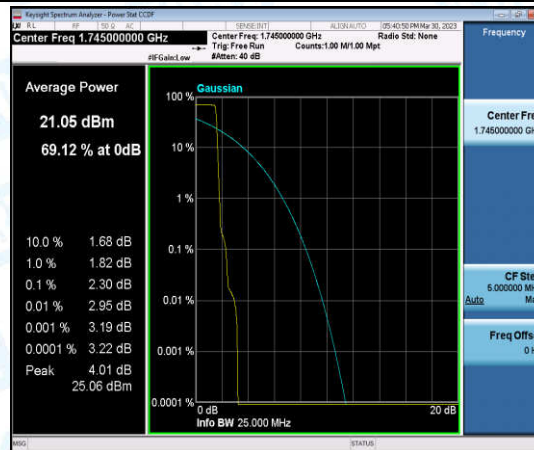
Band66-Stand-Alone-NaN-BPSK-132322-1@0-3.75kHz-1.8-<=13-PASS



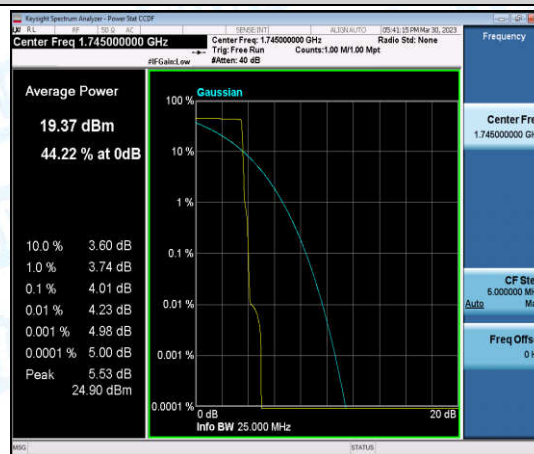
Band66-Stand-Alone-NaN-BPSK-132322-1@47-3.75kHz-1.69-<=13-PASS



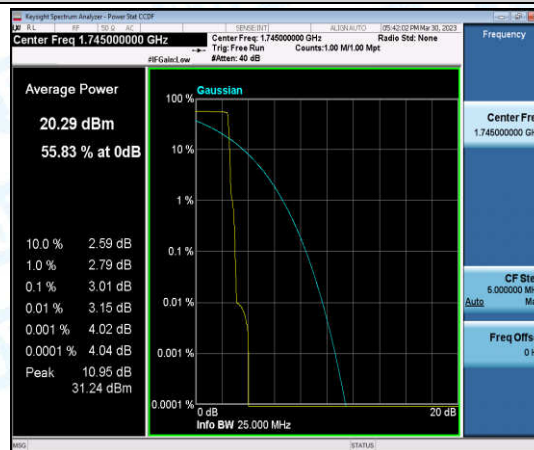
Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-2.58-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-2.3-<=13-PASS



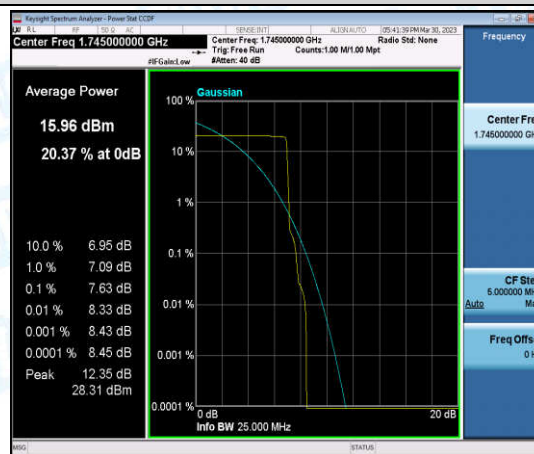
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-4.01-<=13-PASS



Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-3.01-<=13-PASS



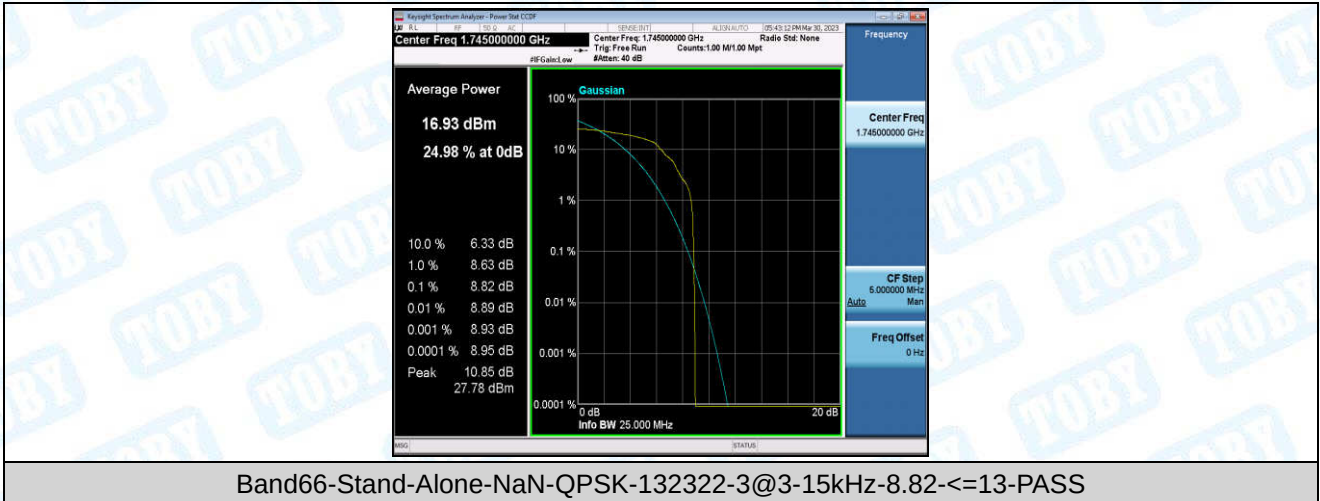
Band66-Stand-Alone-NaN-BPSK-132322-3@3-15kHz-9.05<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-7.63<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@11-15kHz-8.74<=13-PASS

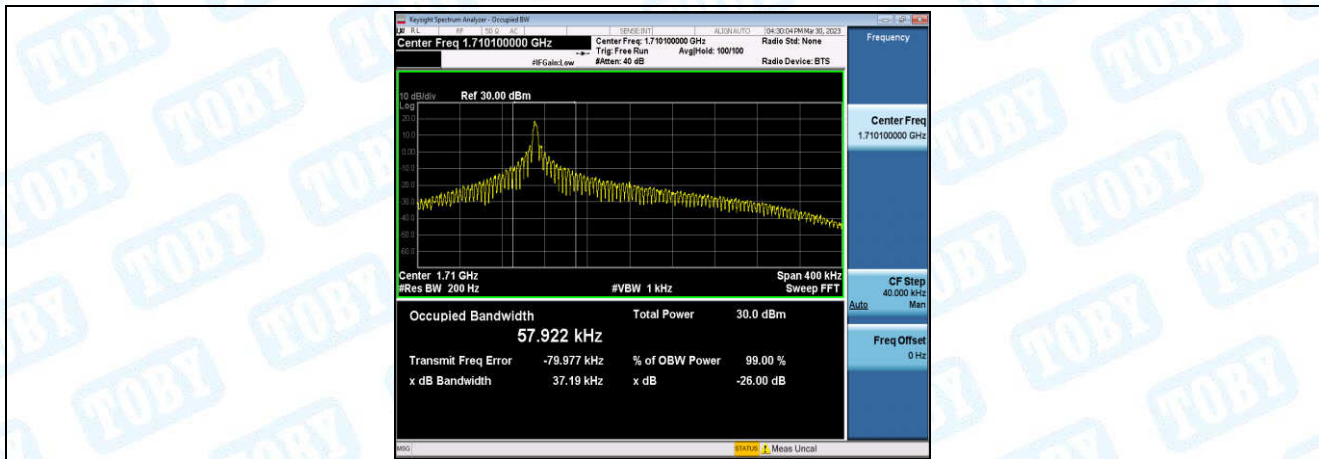


3: Emission Bandwidth for NB1

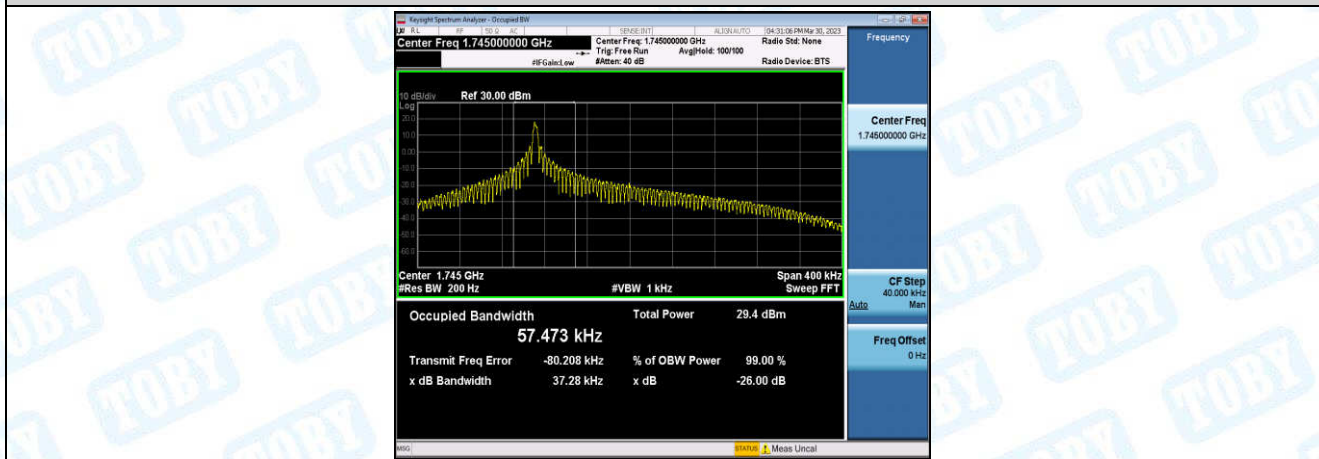
3.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Occupied Bandwidth (MHz)	Result (MHz)	Verdict
Band66	Stand-Alone	3.75kHz	BPSK	131973	1@0	0.0579	0.0372	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132322	1@0	0.0575	0.0373	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132671	1@0	0.0585	0.0372	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	0.0561	0.0409	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	0.0536	0.0407	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	0.0545	0.0407	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	0.1358	0.1276	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	12@0	0.1858	0.2764	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	0.1351	0.1271	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	12@0	0.1857	0.2745	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	0.1351	0.1235	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	12@0	0.1873	0.2995	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	1@0	0.1419	0.1563	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	12@0	0.1856	0.2781	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	0.1462	0.1449	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	12@0	0.1858	0.2769	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	1@0	0.1446	0.1452	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	0.1872	0.2640	PASS

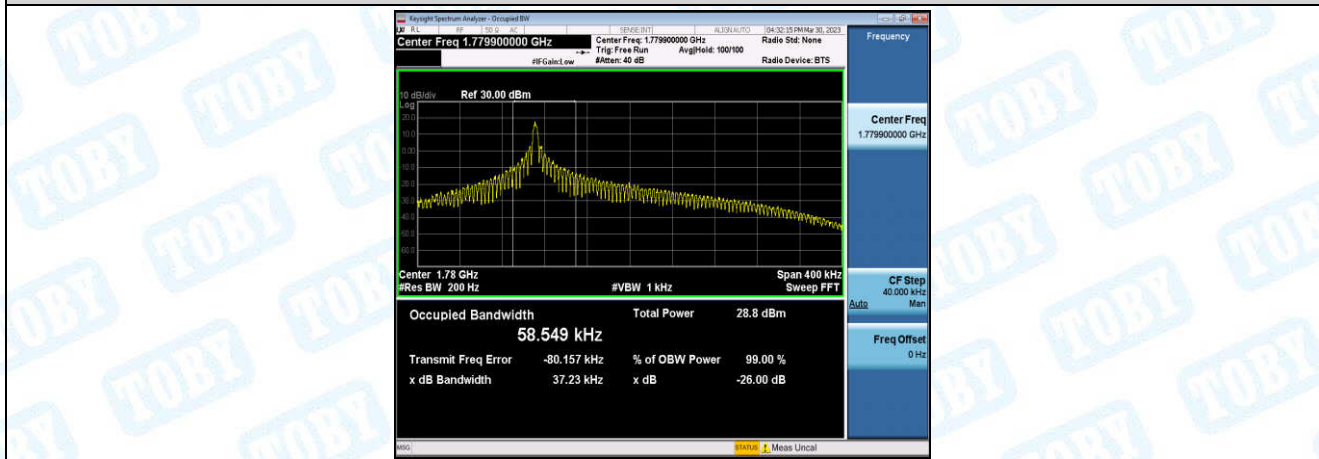
3.2 Test Graphs



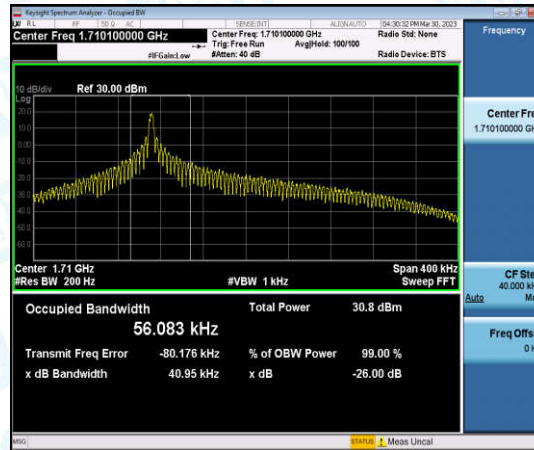
Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz-0.0372-PASS



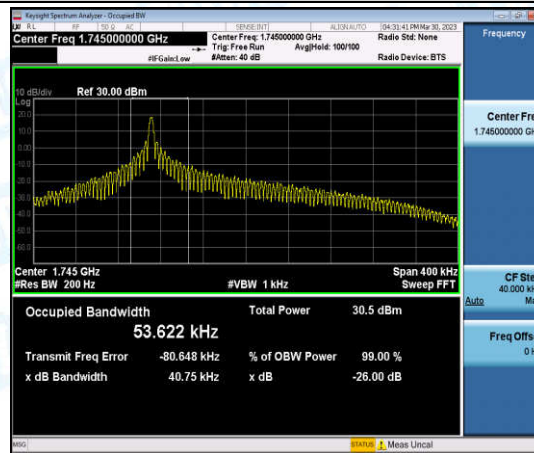
Band66-Stand-Alone-NaN-BPSK-132322-1@0-3.75kHz-0.0373-PASS



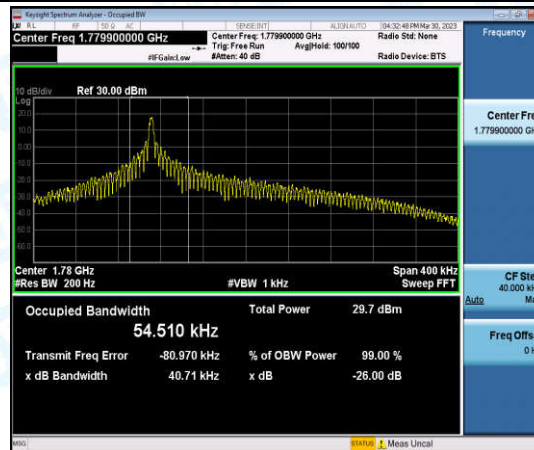
Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz-0.0372-PASS



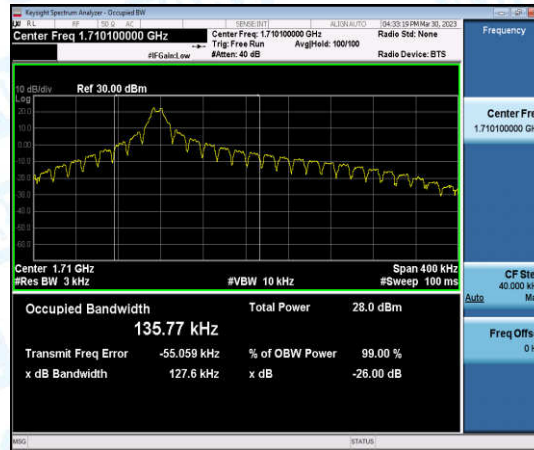
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-0.0409-PASS



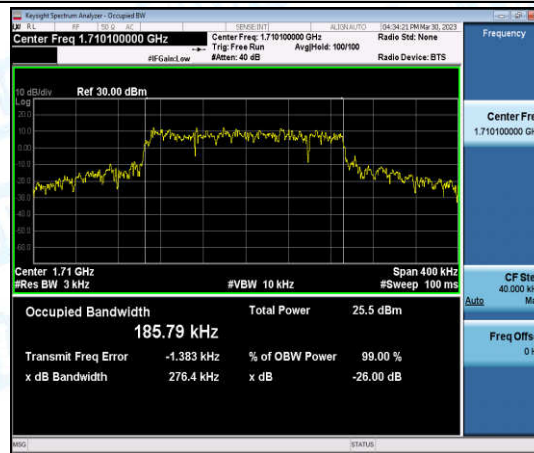
Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-0.0407-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.0407-PASS



Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.1276-PASS



Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz-0.2764-PASS



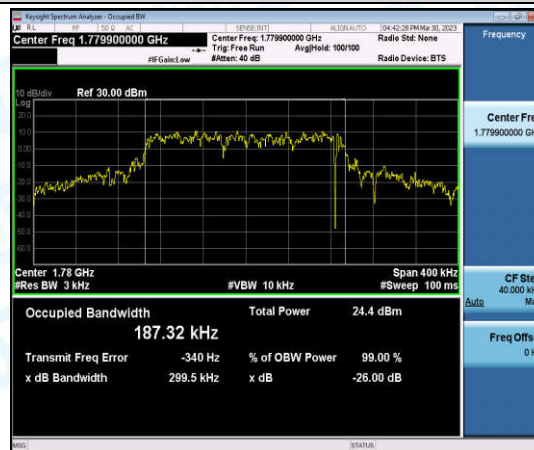
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.1271-PASS



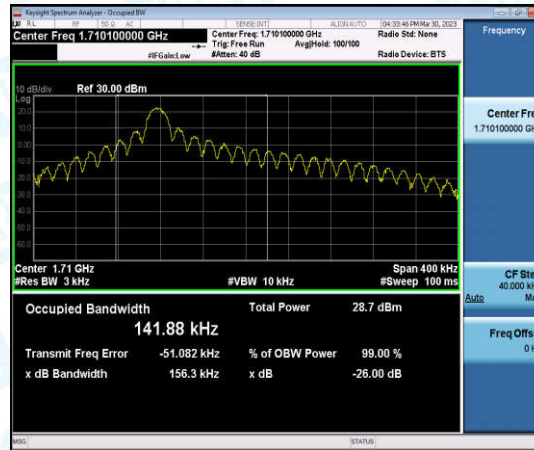
Band66-Stand-Alone-NaN-BPSK-132322-12@0-15kHz-0.2745-PASS



Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-0.1235-PASS



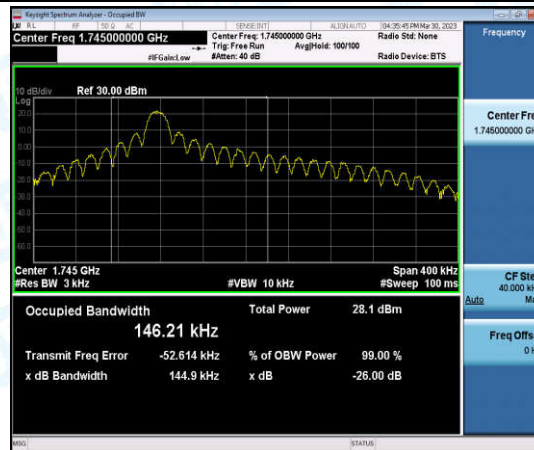
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz-0.2995-PASS



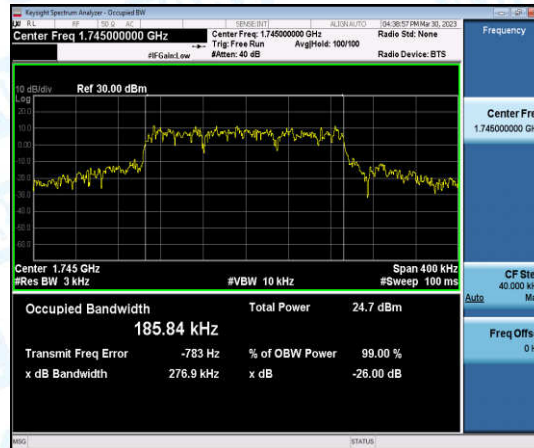
Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz-0.1563-PASS



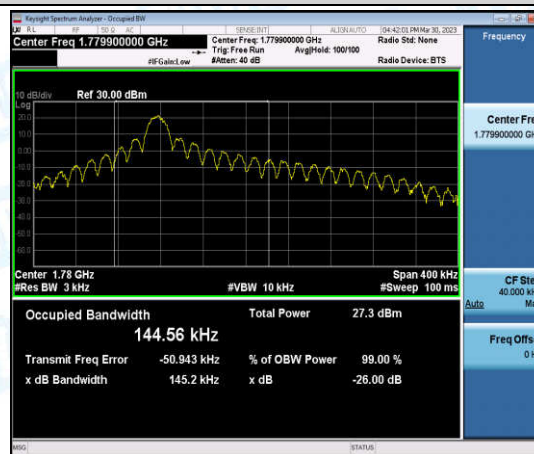
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.2781-PASS



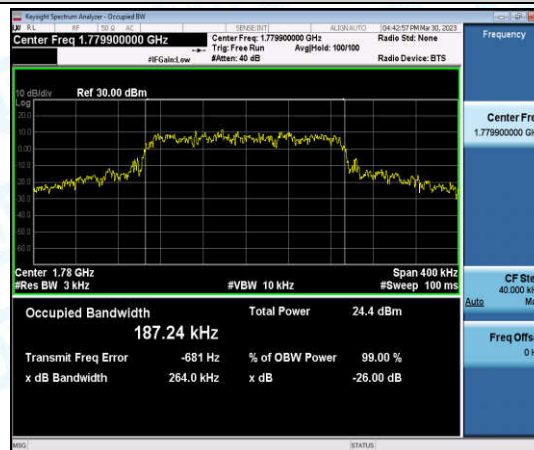
Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-0.1449-PASS



Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.2769-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz-0.1452-PASS



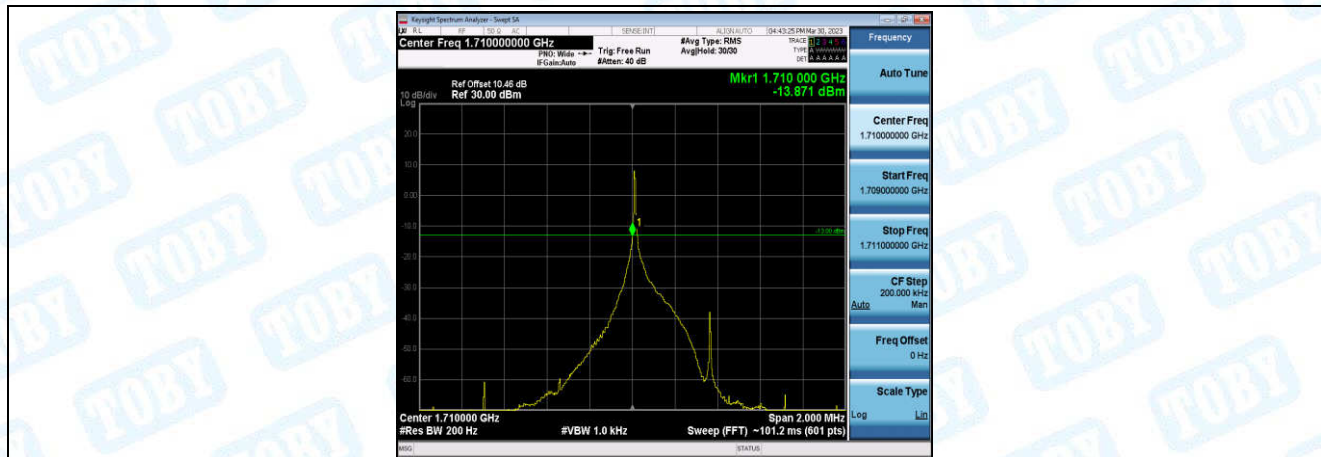
Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.2640-PASS

4: Band Edge for NB1

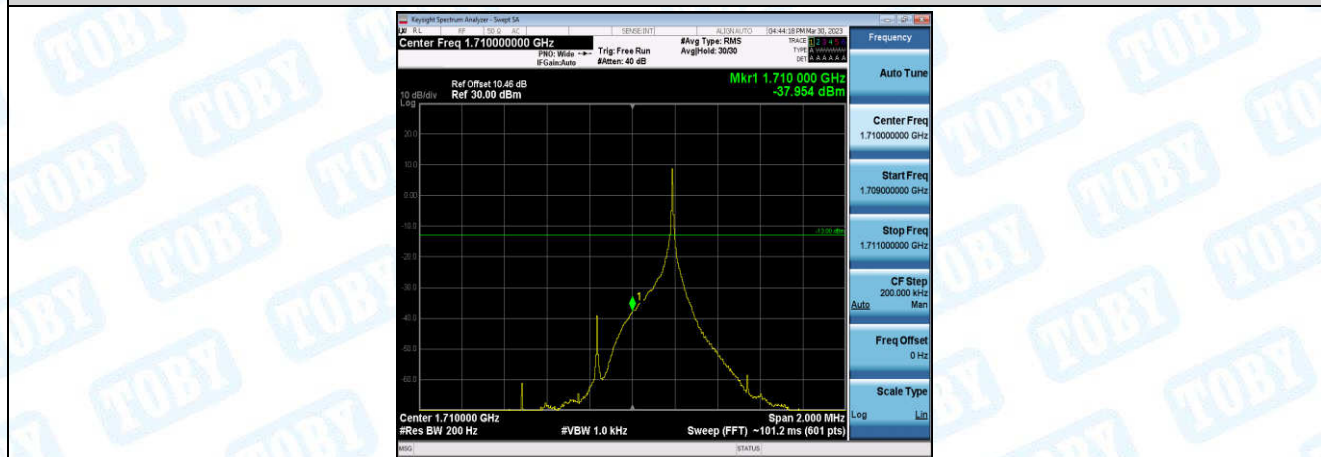
4.1 Test Result

Band	OpMode	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	BPSK	131973	1@0	-13.87	PASS
Band66	Stand-Alone	3.75kHz	BPSK	131973	1@47	-37.95	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132671	1@0	-39.04	PASS
Band66	Stand-Alone	3.75kHz	BPSK	132671	1@47	-15.36	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	-15.28	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	-38.11	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	-39.44	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	-17.13	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	-13.92	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@11	-33.07	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	12@0	-39.09	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	-34.01	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	-15.65	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	12@0	-36.88	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	1@0	-15.63	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	1@11	-33.09	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	12@0	-41.71	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	1@0	-35.70	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	1@11	-14.25	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	-41.66	PASS

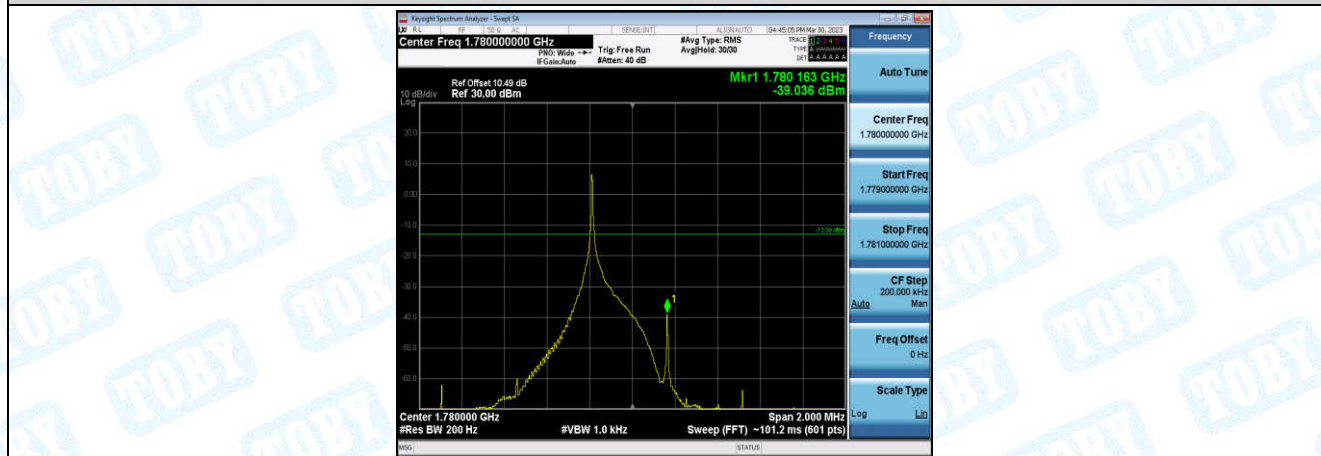
4.2 Test Graphs



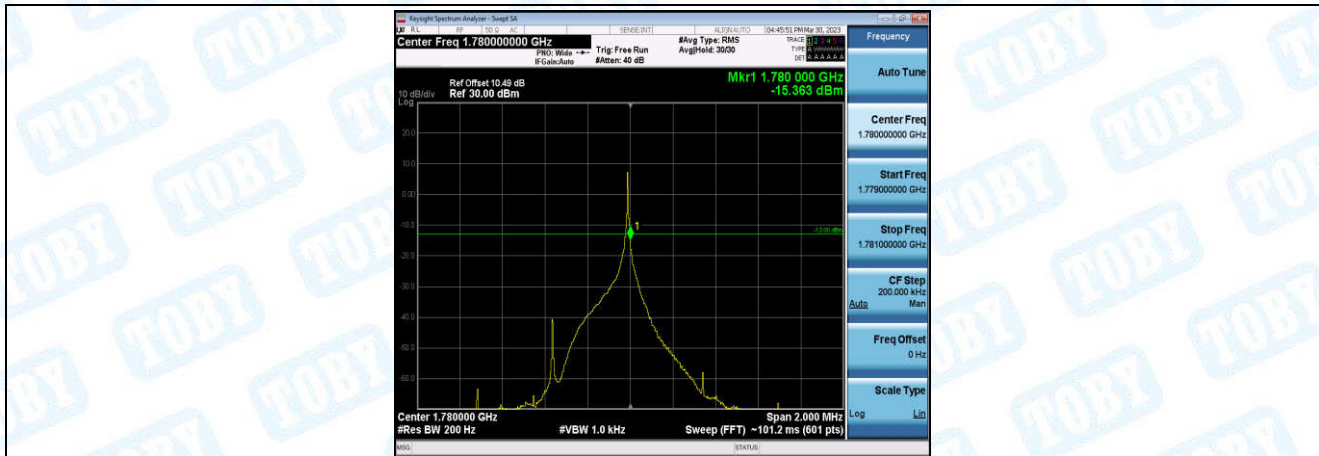
Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz--13.87-PASS



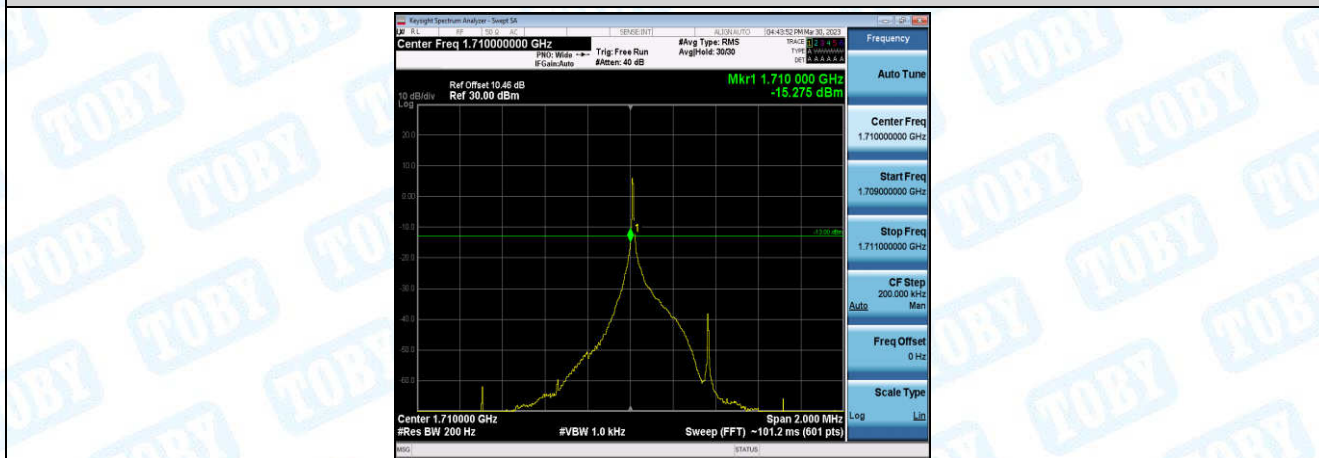
Band66-Stand-Alone-NaN-BPSK-131973-1@47-3.75kHz--37.95-PASS



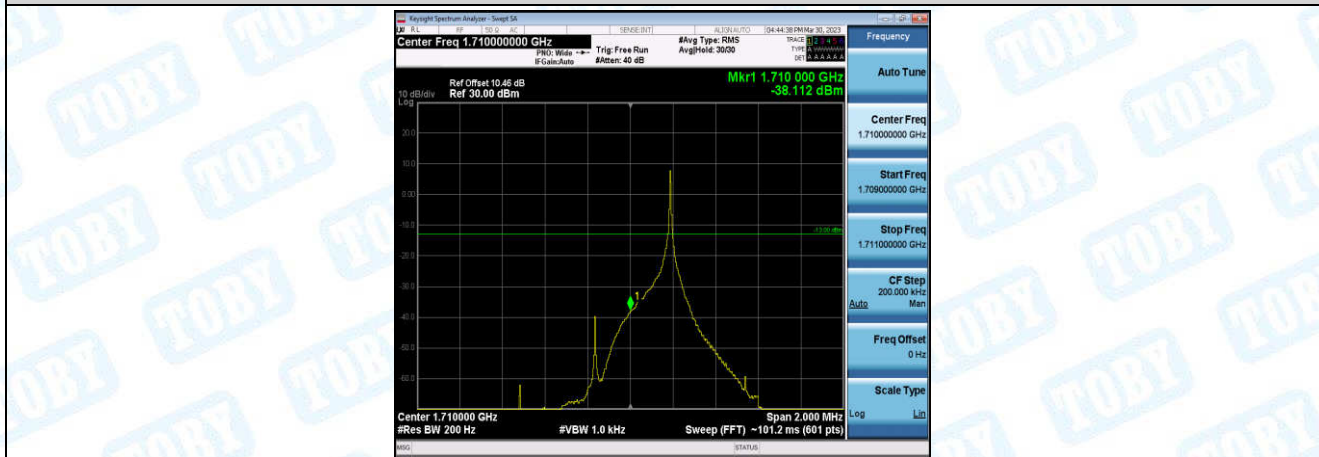
Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz--39.04-PASS



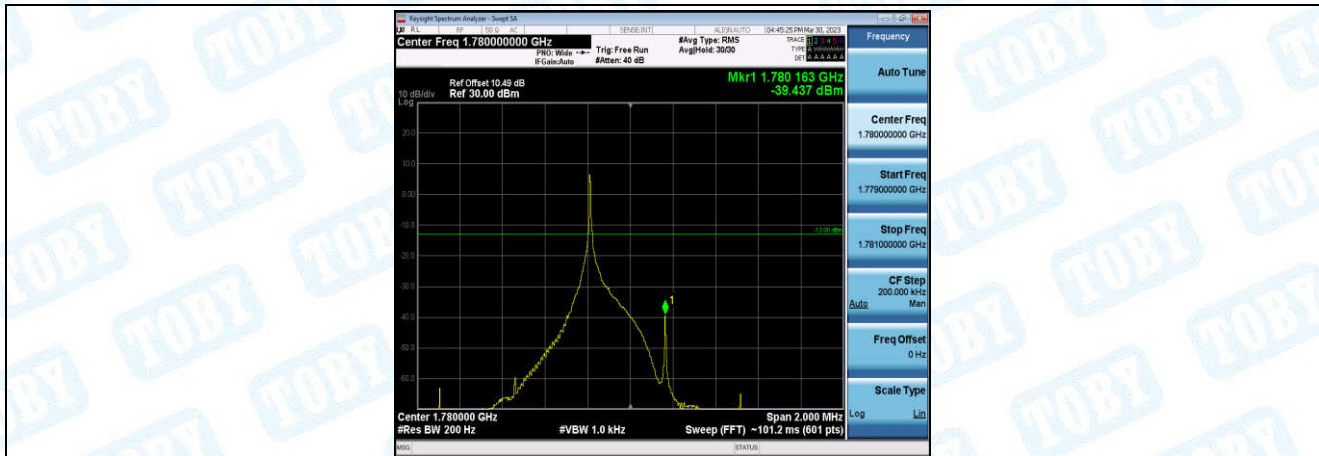
Band66-Stand-Alone-NaN-BPSK-132671-1@47-3.75kHz--15.36-PASS



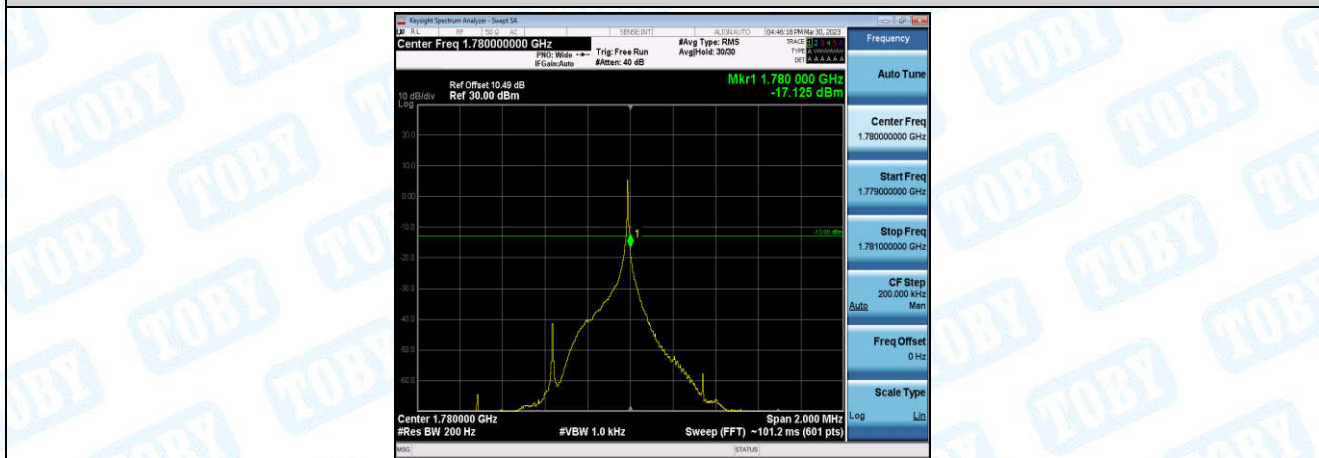
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz--15.28-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz--38.11-PASS



Band66-Stand-Alone-Na-N-QPSK-132671-1@0-3.75kHz--39.44-PASS



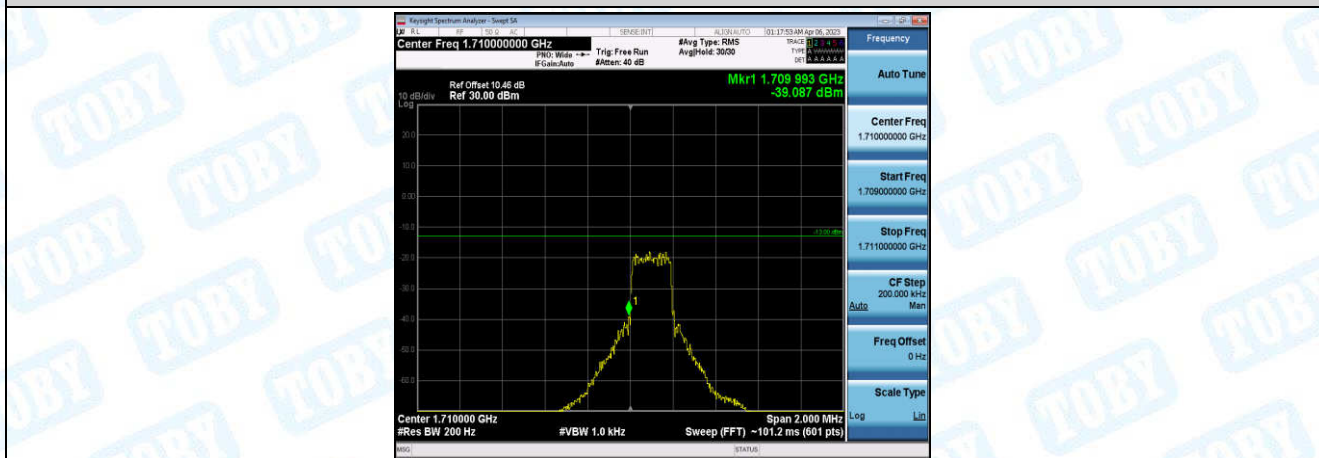
Band66-Stand-Alone-Na-N-QPSK-132671-1@47-3.75kHz--17.13-PASS



Band66-Stand-Alone-Na-N-BPSK-131973-1@0-15kHz--13.92-PASS



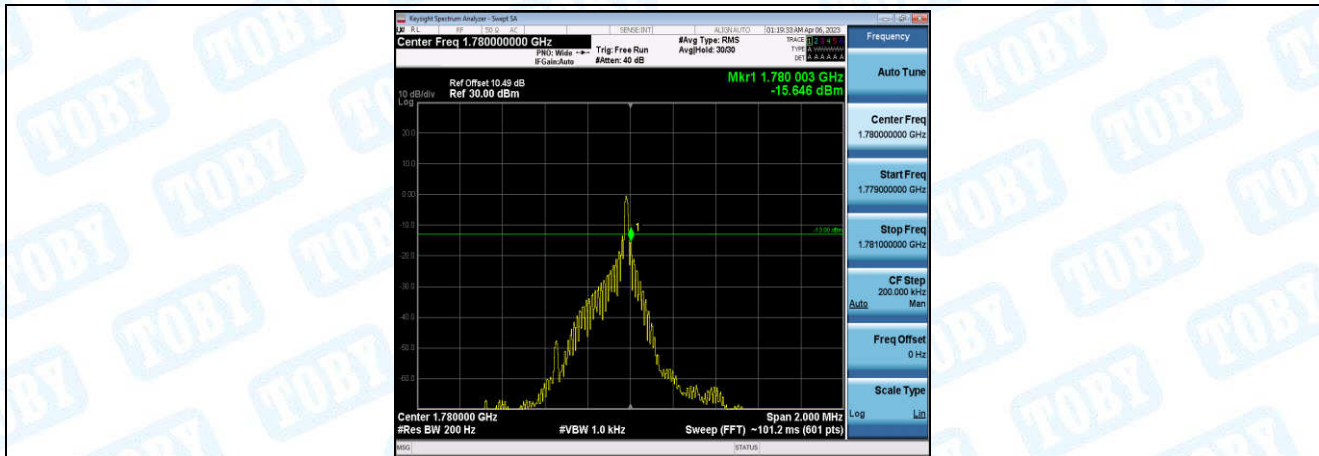
Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz--33.07-PASS



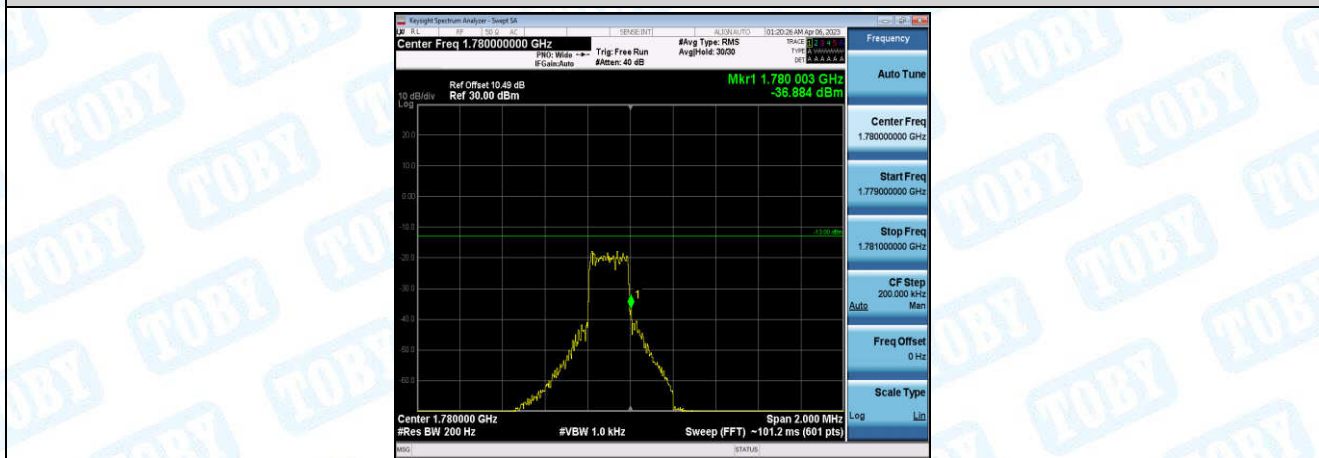
Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz--39.09-PASS



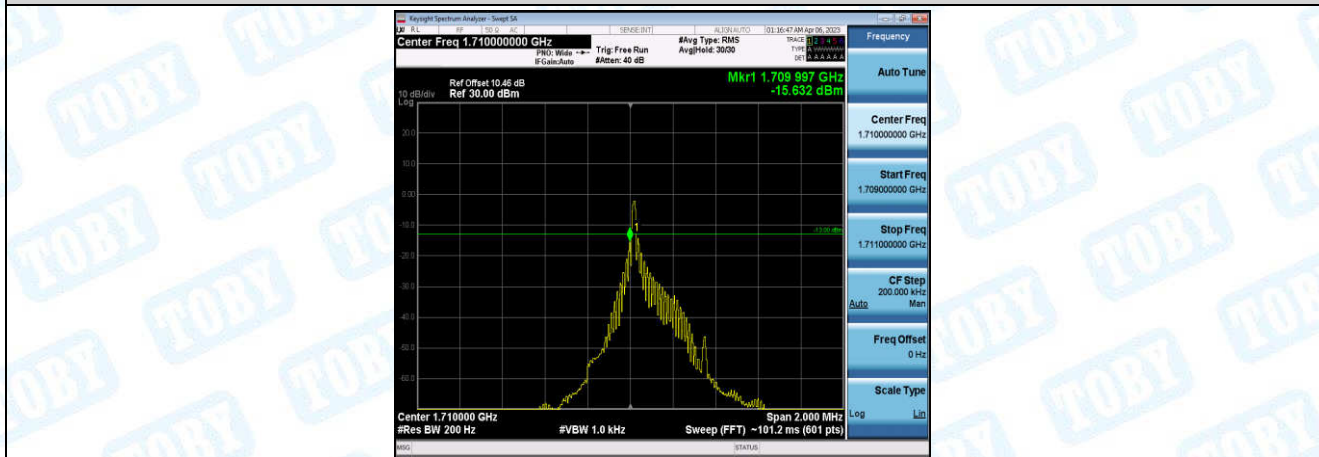
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz--34.01-PASS



Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz--15.65-PASS



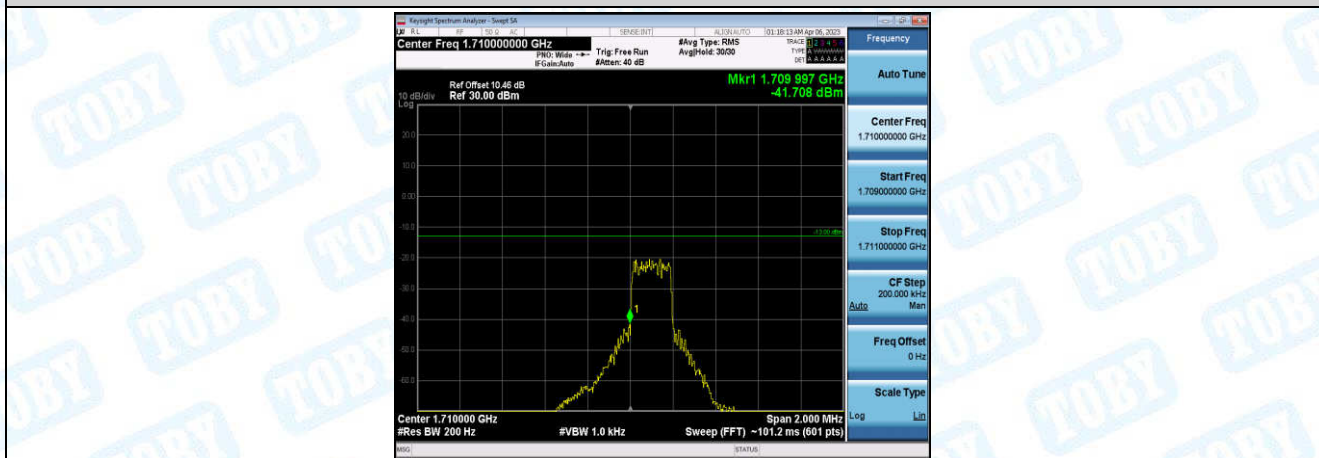
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz--36.88-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz--15.63-PASS



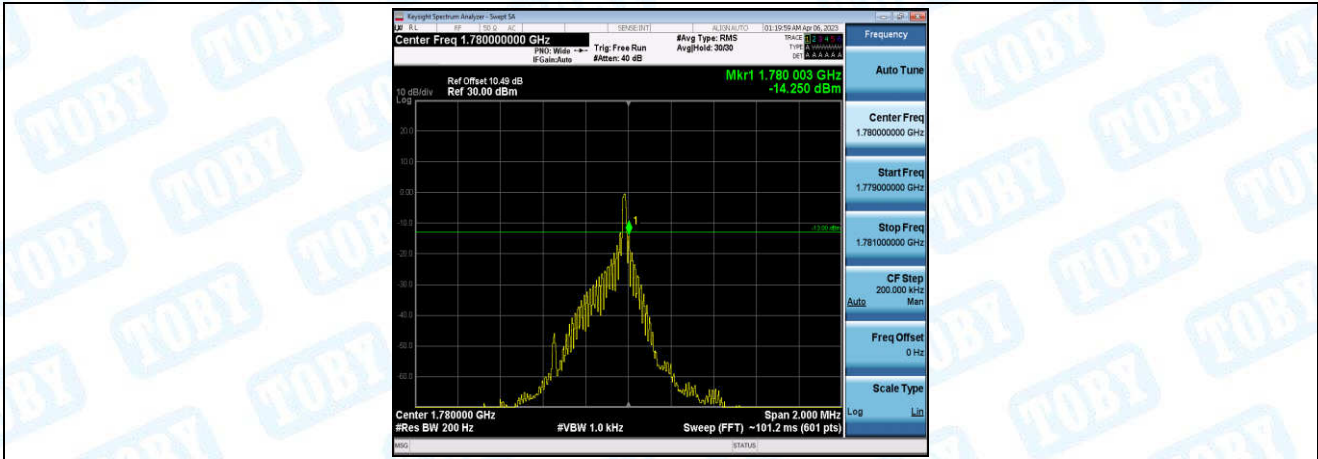
Band66-Stand-Alone-NaN-QPSK-131973-1@11-15kHz--33.09-PASS



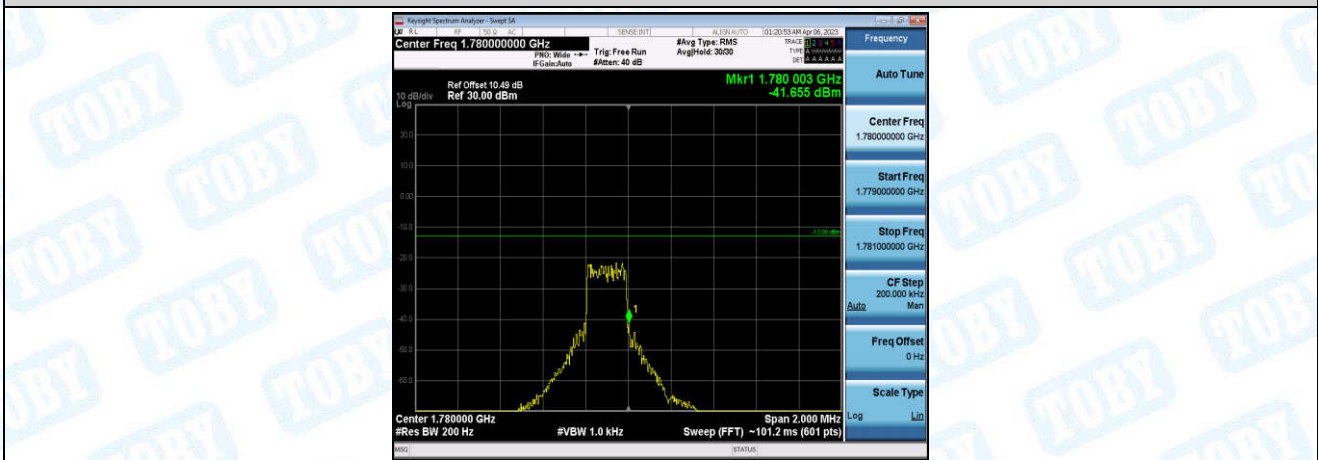
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz--41.71-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz--35.70-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@11-15kHz--14.25-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz--41.66-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
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	0.009	0.15	0.009~0.15MHz @-60.65dBm	-43	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	0.15	30	0.15~30MHz @-63.62dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	30	1000	30~1000MHz @-50.15dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@0	1000	20000	1000~20000MHz @-40.57dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	0.009	0.15	0.009~0.15MHz @-61.5dBm	-43	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	0.15	30	0.15~30MHz @-62.78dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	30	1000	30~1000MHz @-50.14dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	131973	1@47	1000	20000	1000~20000MHz @-40.64dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	0.009	0.15	0.009~0.15MHz @-61.12dBm	-43	PASS

Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	0.15	30	0.15~30MHz @-63.79dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	30	1000	30~1000MHz @-50.17dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	1000	20000	1000~20000MHz @-40.41dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	0.009	0.15	0.009~0.15MHz @-60.63dBm	-43	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	0.15	30	0.15~30MHz @-65.29dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	30	1000	30~1000MHz @-50.08dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	1000	20000	1000~20000MHz @-40.19dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	0.009	0.15	0.009~0.15MHz @-61.86dBm	-43	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	0.15	30	0.15~30MHz @-67.06dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	30	1000	30~1000MHz @-50.22dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@0	1000	20000	1000~20000MHz @-4	-13	PASS

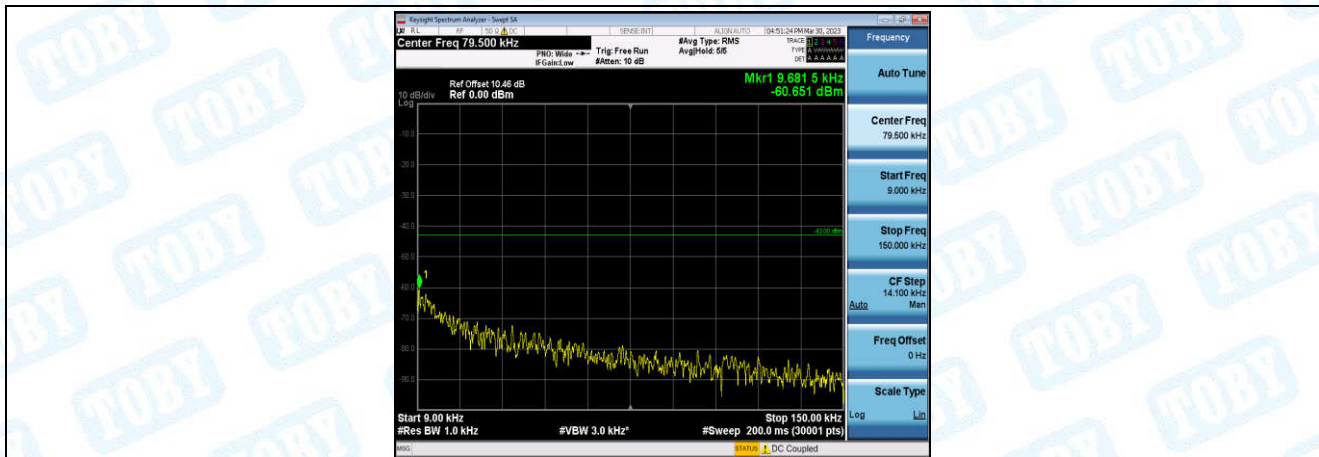
								0.83dBm		
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	0.009	0.15	0.009~0.15MHz@-61.42dBm	-43	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	0.15	30	0.15~30MHz@-61.73dBm	-33	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	30	1000	30~1000MHz@-50.19dBm	-13	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132671	1@47	1000	20000	1000~20000MHz@-40.81dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	0.009	0.15	0.009~0.15MHz@-59.83dBm	-43	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	0.15	30	0.15~30MHz@-66.38dBm	-33	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	30	1000	30~1000MHz@-50.22dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@0	1000	20000	1000~20000MHz@-40.67dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@11	0.009	0.15	0.009~0.15MHz@-60.71dBm	-43	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@11	0.15	30	0.15~30MHz@-63.62dBm	-33	PASS

Band66	Stand-Alone	15kHz	BPSK	131973	1@11	30	1000	30~100 0MHz @-50.2 5dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	131973	1@11	1000	2000 0	1000~2 0000M Hz@-4 0.22dB m	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	0.009	0.15	0.009~ 0.15MH z@-61. 31dBm	-43	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	0.15	30	0.15~3 0MHz @-65.6 8dBm	-33	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	30	1000	30~100 0MHz @-50.2 dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@0	1000	2000 0	1000~2 0000M Hz@-4 0.28dB m	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	0.009	0.15	0.009~ 0.15MH z@-62. 03dBm	-43	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	0.15	30	0.15~3 0MHz @-65.4 5dBm	-33	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	30	1000	30~100 0MHz @-50.1 dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132322	1@11	1000	2000 0	1000~2 0000M Hz@-4 0.28dB m	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	0.009	0.15	0.009~ 0.15MH	-43	PASS

								z@-60.88dBm		
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	0.15	30	0.15~30MHz @-65.58dBm	-33	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	30	1000	30~1000MHz @-50.25dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@0	1000	20000	1000~20000MHz @-40.52dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	0.009	0.15	0.009~0.15MHz z@-58.98dBm	-43	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	0.15	30	0.15~30MHz @-66.71dBm	-33	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	30	1000	30~1000MHz @-50.25dBm	-13	PASS
Band66	Stand-Alone	15kHz	BPSK	132671	1@11	1000	20000	1000~20000MHz @-40.21dBm	-13	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	12@0	0.009	0.15	0.009~0.15MHz z@-59.48dBm	-43	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	12@0	0.15	30	0.15~30MHz @-59.86dBm	-33	PASS
Band66	Stand-Alone	15kHz	QPSK	131973	12@0	30	1000	30~1000MHz @-50.17dBm	-13	PASS

Band66	Stand-Alone	15kHz	QPSK	131973	12@0	1000	20000	1000~20000MHz@-40.71dBm	-13	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	12@0	0.009	0.15	0.009~0.15MHz@-60.86dBm	-43	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	12@0	0.15	30	0.15~30MHz@-66.02dBm	-33	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	12@0	30	1000	30~1000MHz@-50.16dBm	-13	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	12@0	1000	20000	1000~20000MHz@-40.83dBm	-13	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	0.009	0.15	0.009~0.15MHz@-60.46dBm	-43	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	0.15	30	0.15~30MHz@-66.64dBm	-33	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	30	1000	30~1000MHz@-50.23dBm	-13	PASS
Band66	Stand-Alone	15kHz	QPSK	132671	12@0	1000	20000	1000~20000MHz@-40.74dBm	-13	PASS

5.2 Test Graphs



Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.65dBm--43-PASS



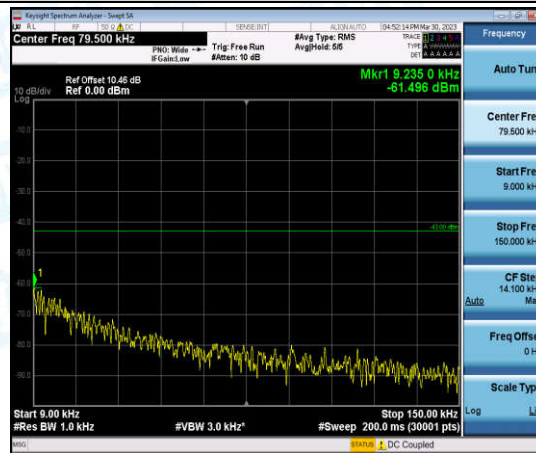
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-0.15-30-0.15~30MHz@-63.62dBm--33-PASS



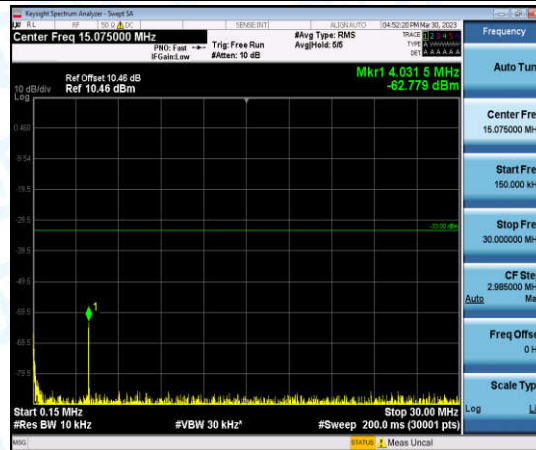
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-30-1000-30~1000MHz@-50.15dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.57dBm--13-PA
SS



Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.5dBm--43-PASS



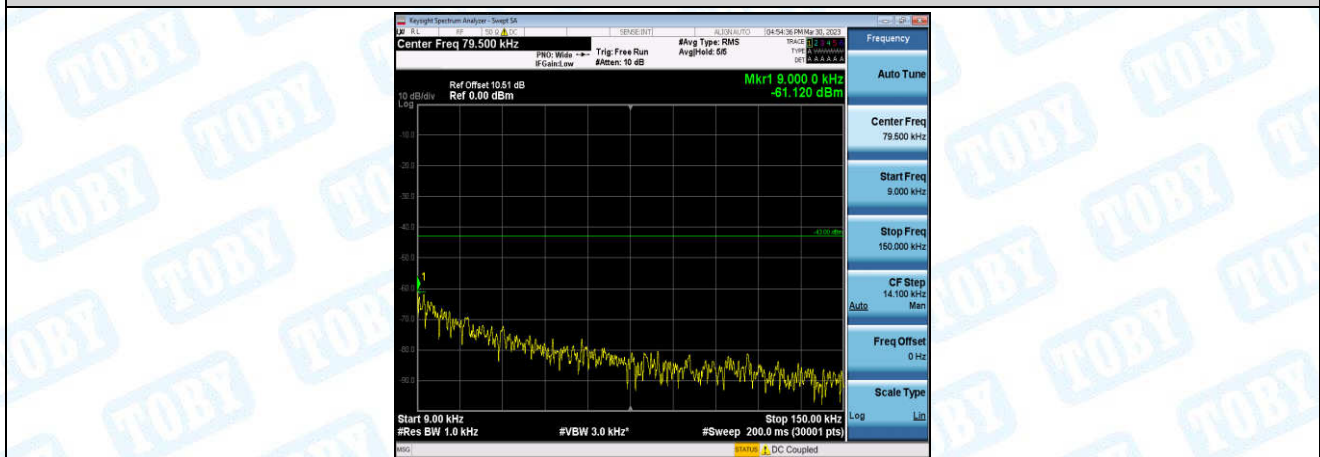
Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-0.15-30-0.15~30MHz@-62.78dBm--33-PASS



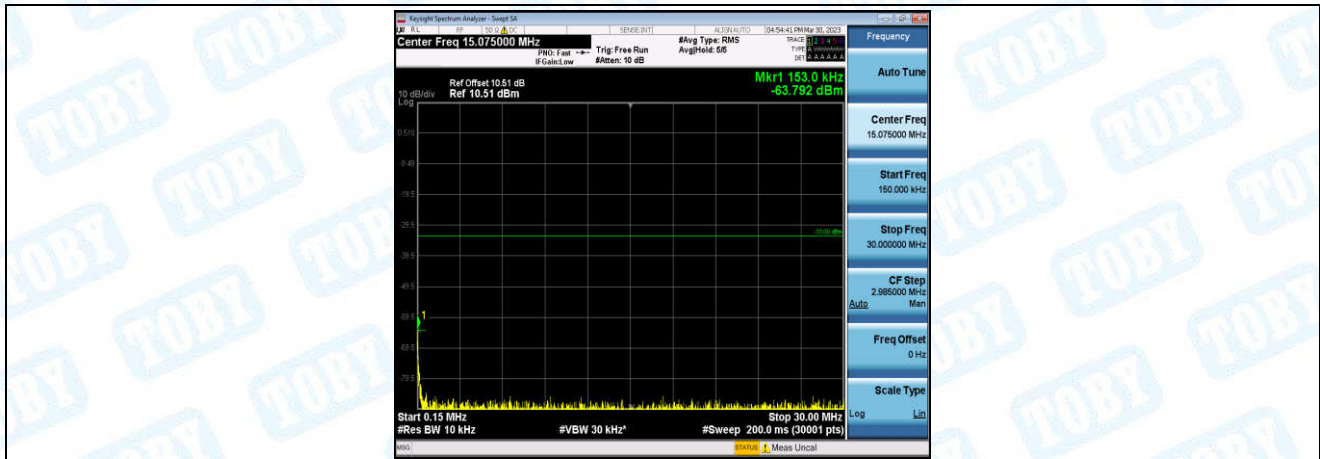
Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-30-1000-30~1000MHz@-50.14dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.64dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.12dBm--43-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-0.15-30-0.15~30MHz@-63.79dBm--33-PASS

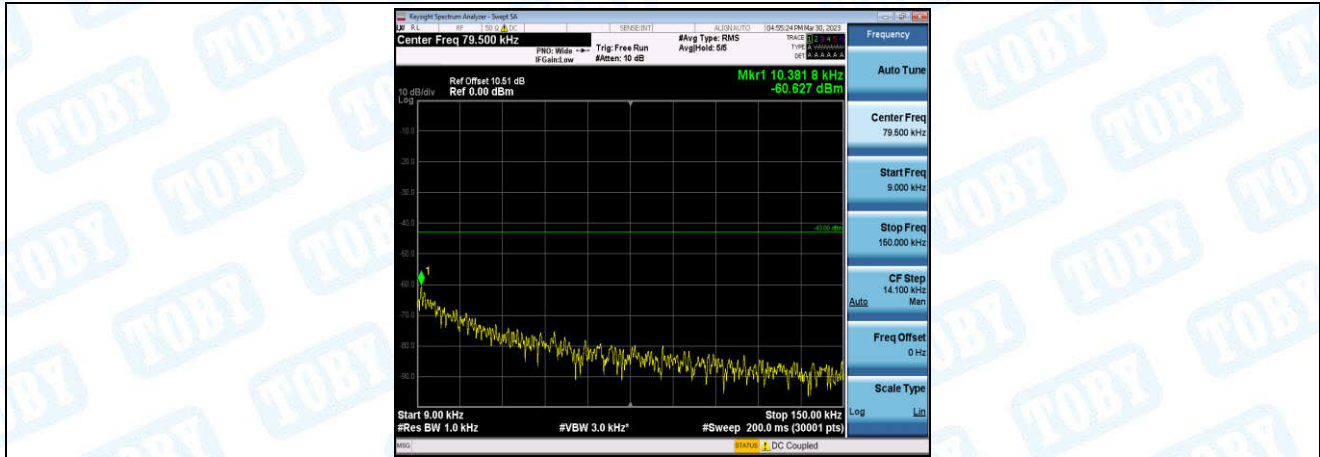


Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-30-1000-30~1000MHz@-50.17dBm--13-PASS



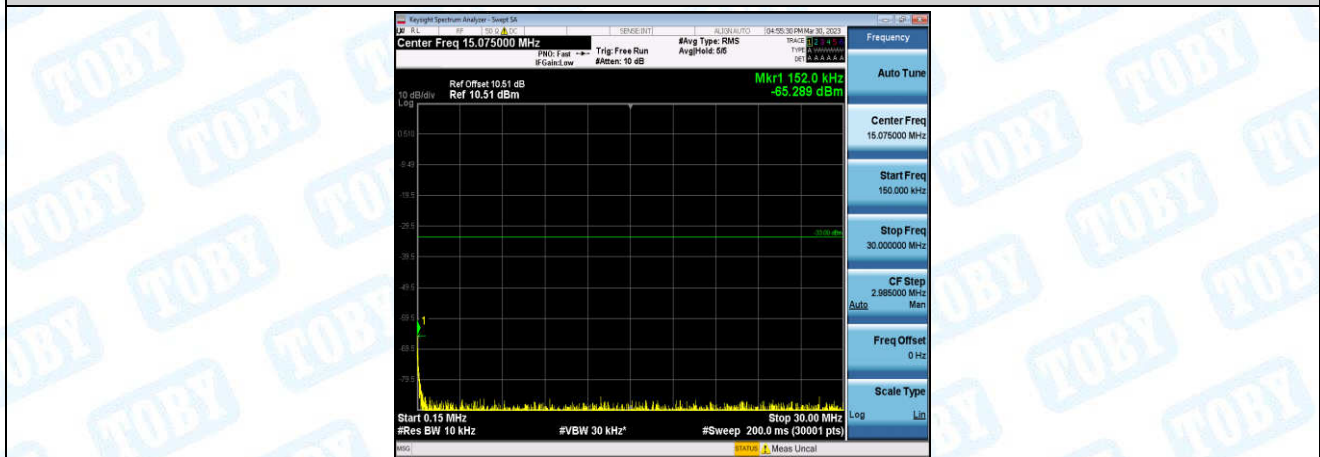
Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.41dBm--13-PA

SS



Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-60.63dBm--43-PAS

S



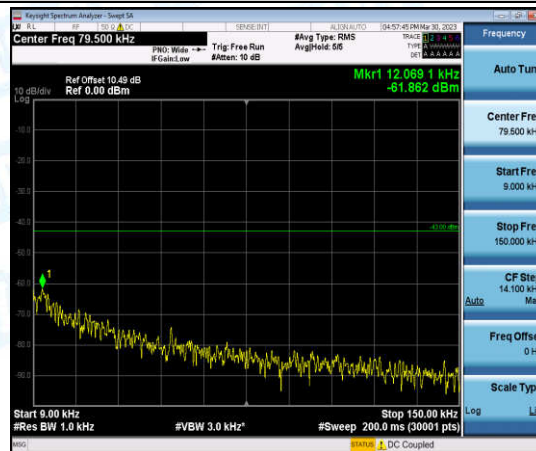
Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-0.15-30-0.15~30MHz@-65.29dBm--33-PASS



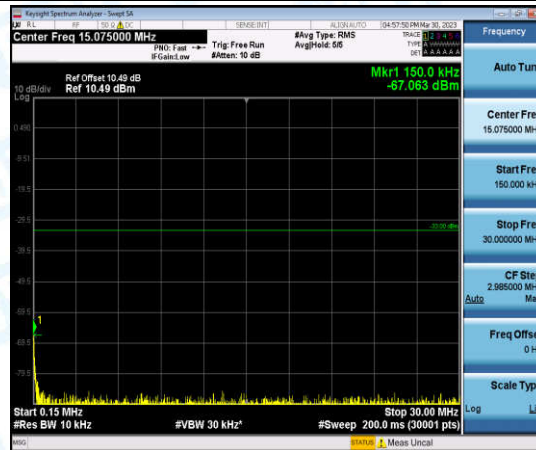
Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-30-1000-30~1000MHz@-50.08dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.19dBm--13-P
ASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.86dBm--43-PASS



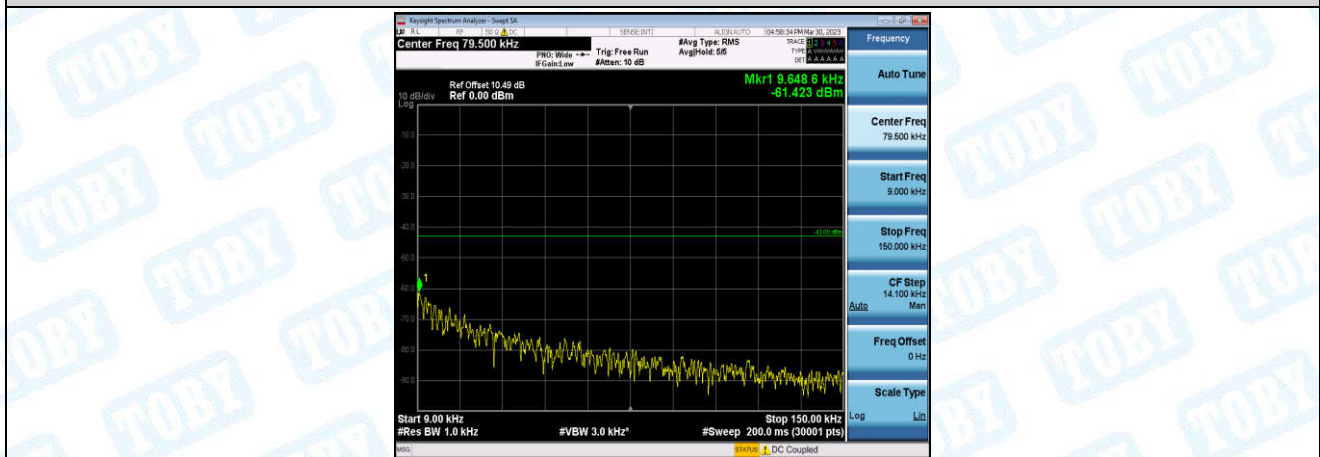
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.15-30-0.15~30MHz@-67.06dBm--33-PASS



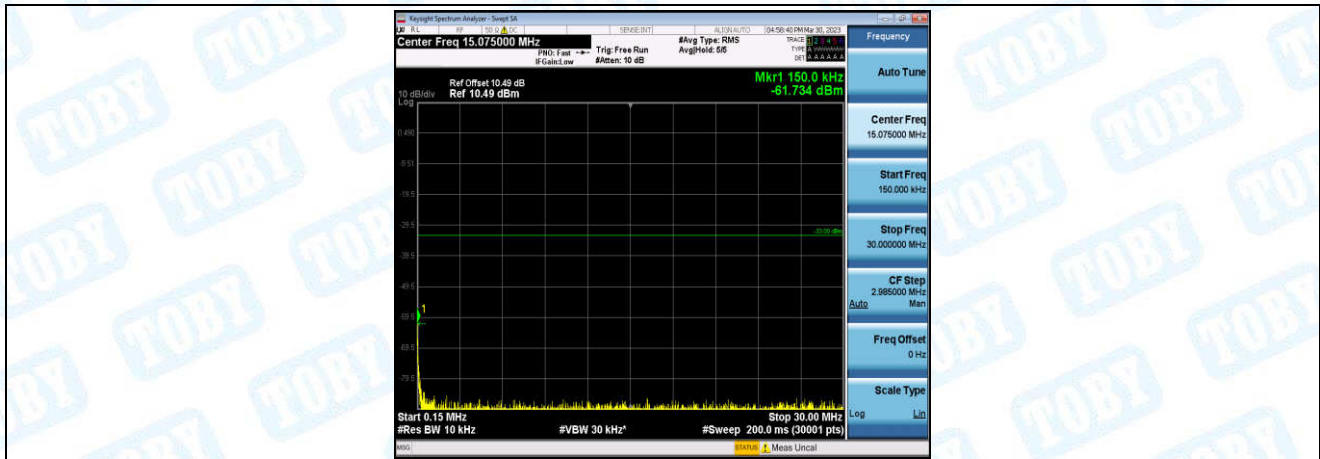
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-30-1000-30~1000MHz@-50.22dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-1000-20000-1000~20000MHz@-40.83dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz-0.009-0.15-0.009~0.15MHz@-61.42dBm--43-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz-0.15-30-0.15~30MHz@-61.73dBm--33-PASS

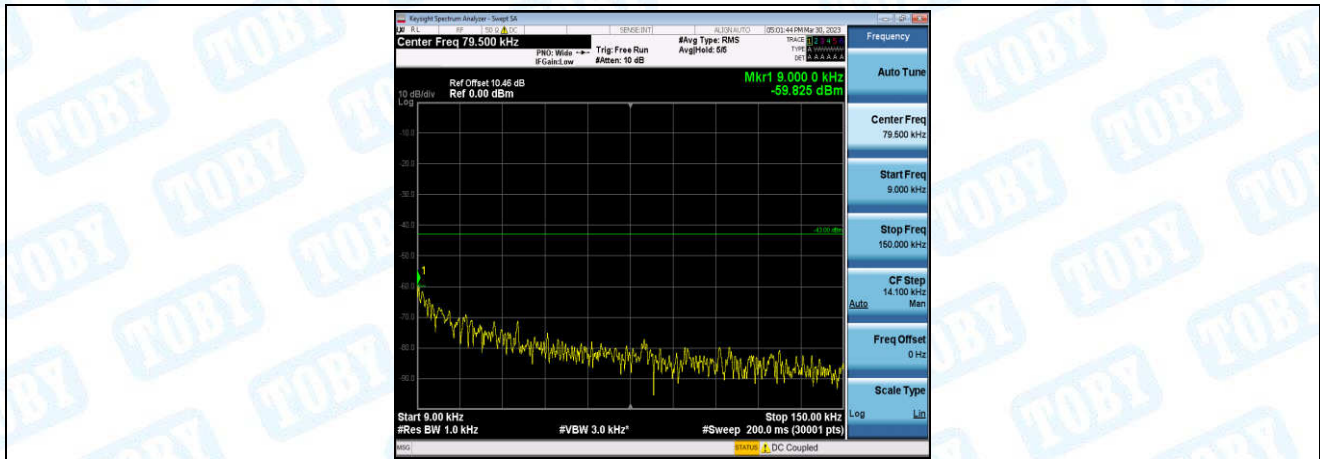


Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz-30-1000-30~1000MHz@-50.19dBm--13-PASS

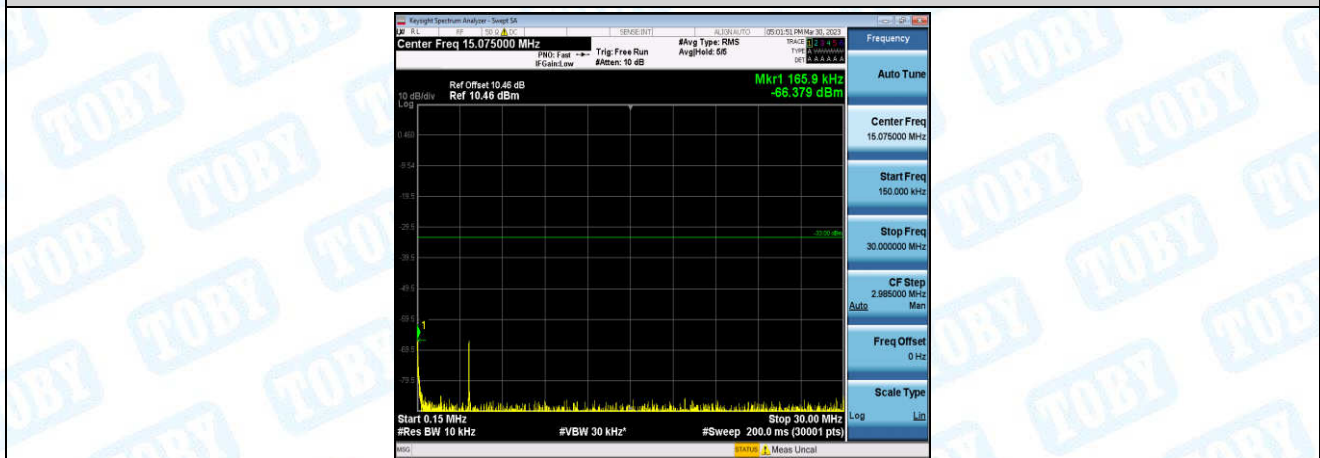


Band66-Stand-Alone-NaN-QPSK-132671-1@47-3.75kHz-1000-20000-1000~20000MHz@-40.81dBm--13-PASS

ASS



Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-59.83dBm--43-PASS



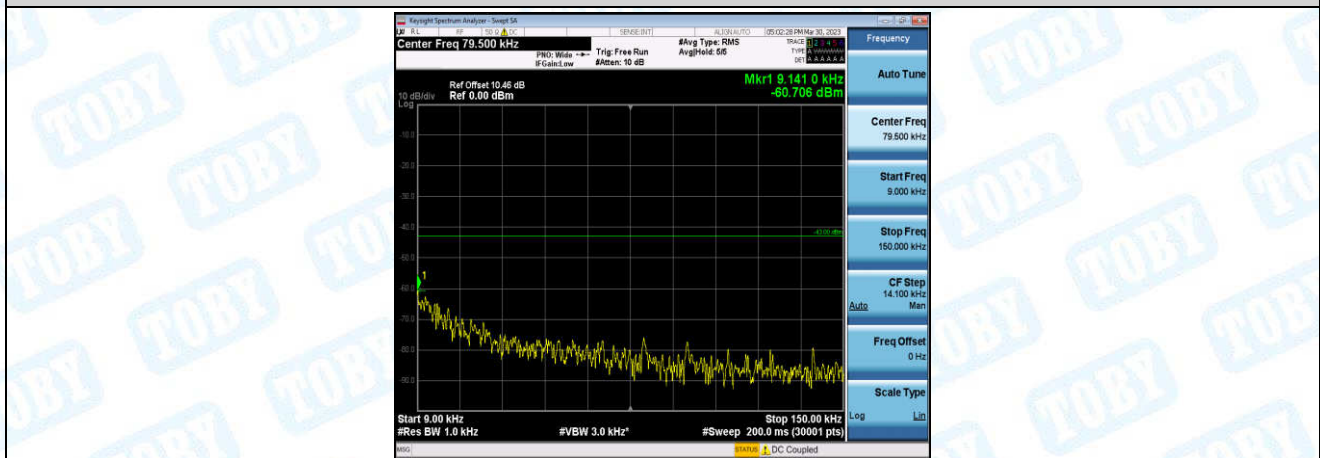
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.15-30-0.15~30MHz@-66.38dBm--33-PASS



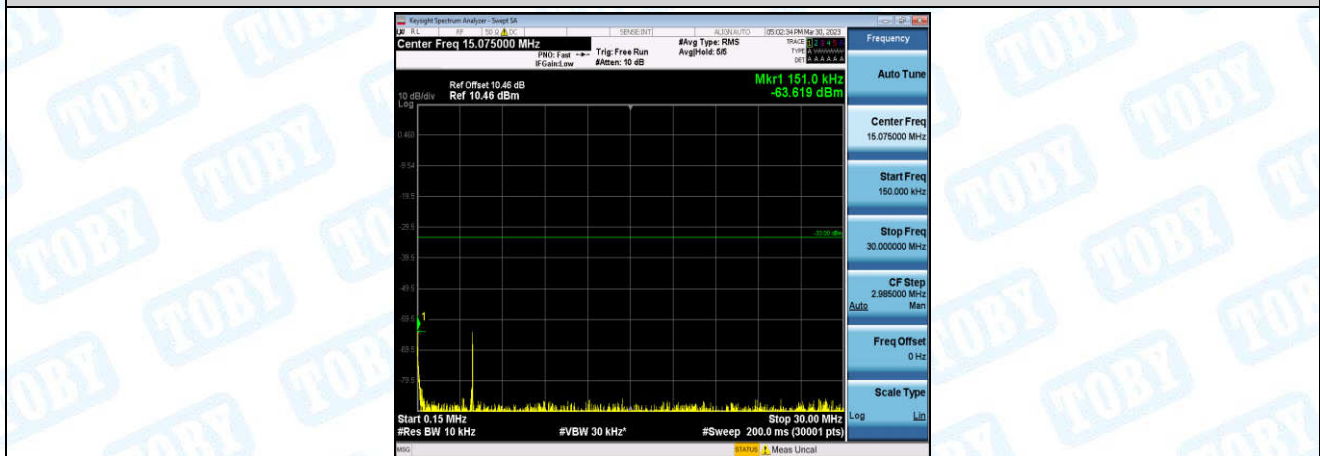
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-30-1000-30~1000MHz@-50.22dBm--13-PASS



Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-1000-20000-1000~20000MHz@-40.67dBm--13-PASS



Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-60.71dBm--43-PASS



Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-0.15-30-0.15~30MHz@-63.62dBm--33-PASS

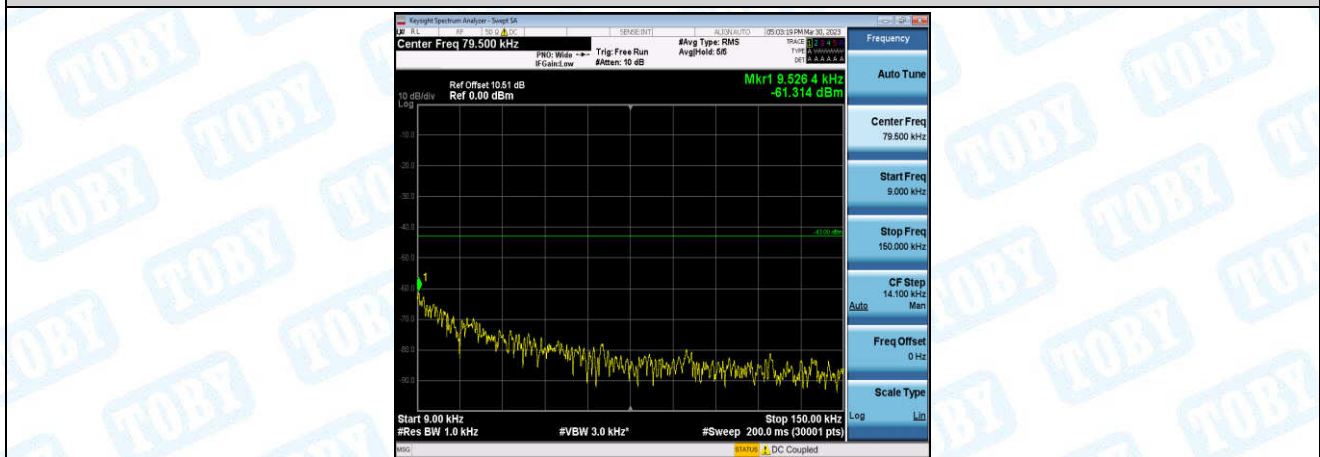


Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-30-1000-30~1000MHz@-50.25dBm--13-PASS

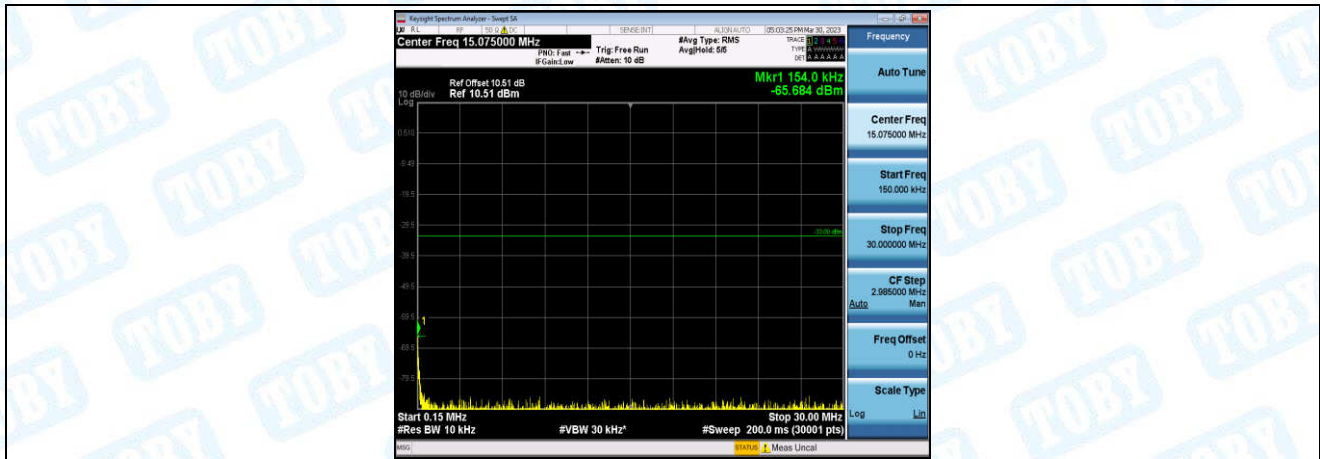


Band66-Stand-Alone-NaN-BPSK-131973-1@11-15kHz-1000-20000-1000~20000MHz@-40.22dBm--13-PAS

S



Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-61.31dBm--43-PASS



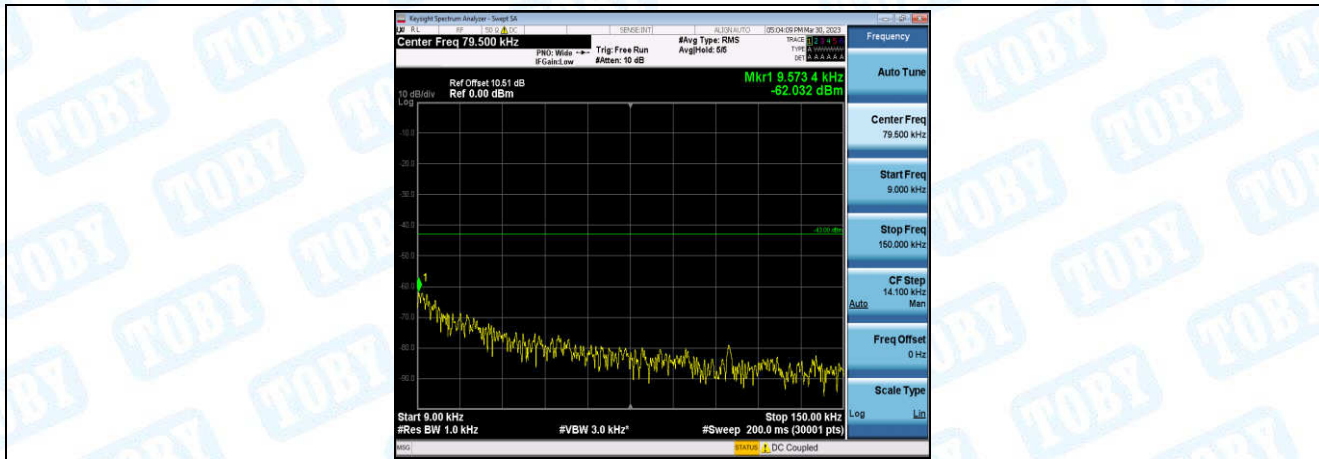
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.15-30-0.15~30MHz@-65.68dBm--33-PASS



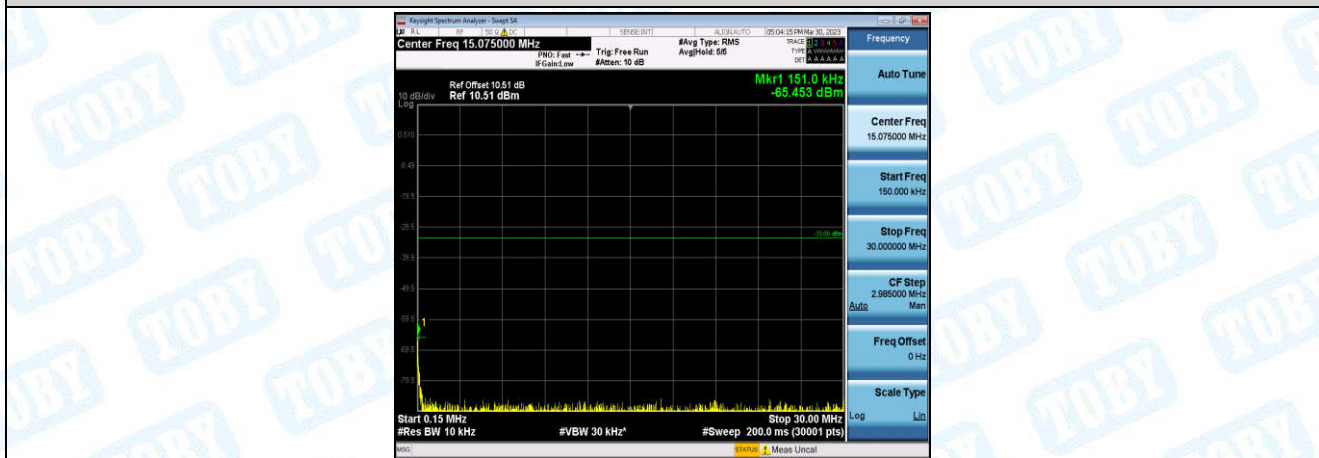
Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-30-1000-30~1000MHz@-50.2dBm--13-PASS



Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-1000-20000-1000~20000MHz@-40.28dBm--13-PASS



Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-62.03dBm--43-PASS



Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-0.15-30-0.15~30MHz@-65.45dBm--33-PASS

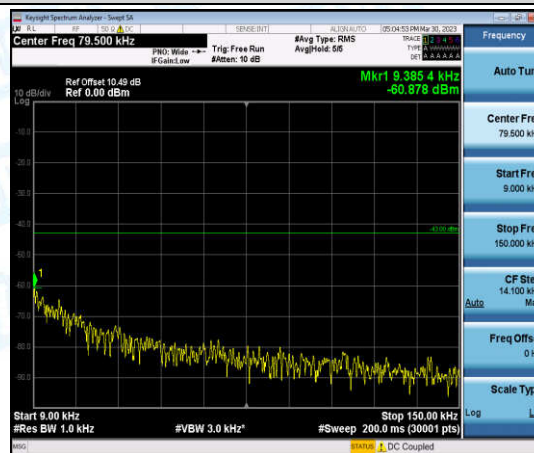


Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-30-1000-30~1000MHz@-50.1dBm--13-PASS

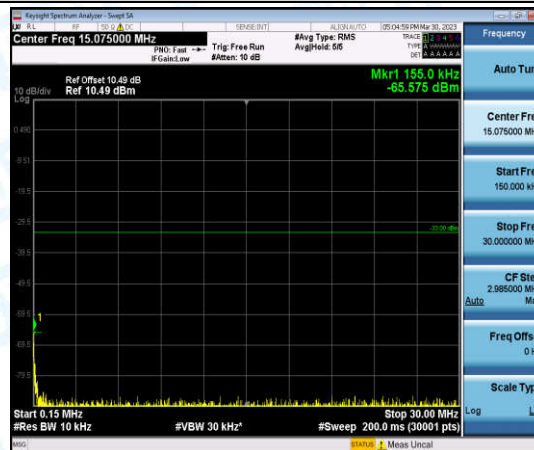


Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-1000-20000-1000~20000MHz@-40.28dBm--13-PAS

S



Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.88dBm--43-PASS



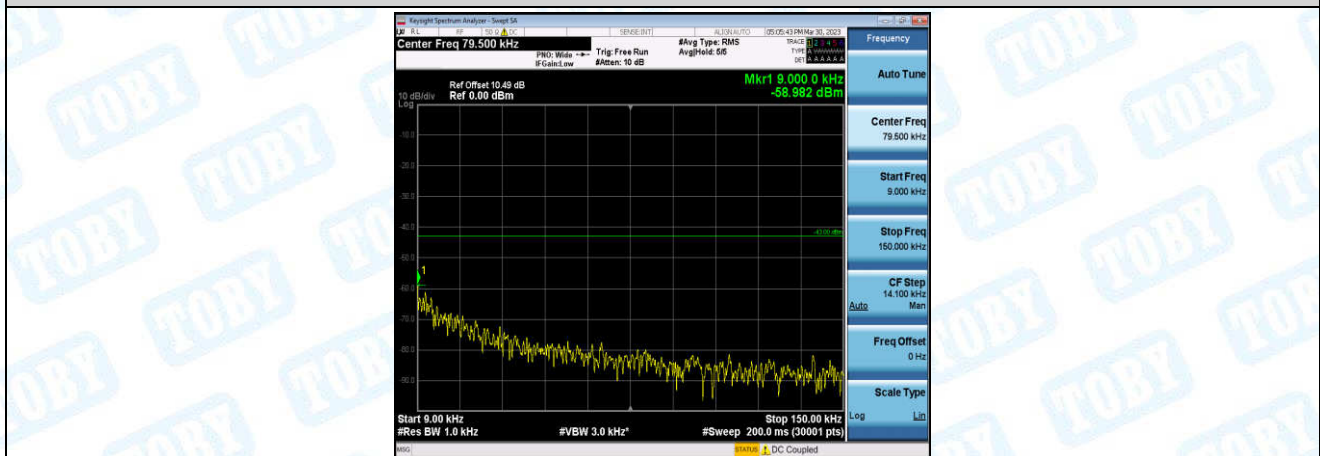
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-0.15-30-0.15~30MHz@-65.58dBm--33-PASS



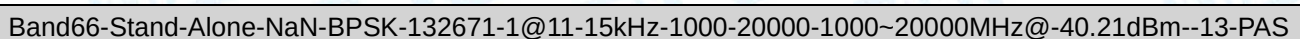
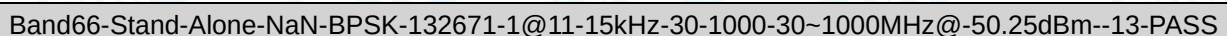
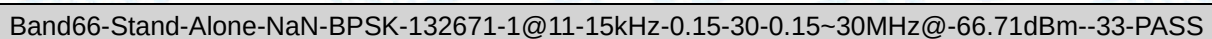
Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-30-1000-30~1000MHz@-50.25dBm--13-PASS

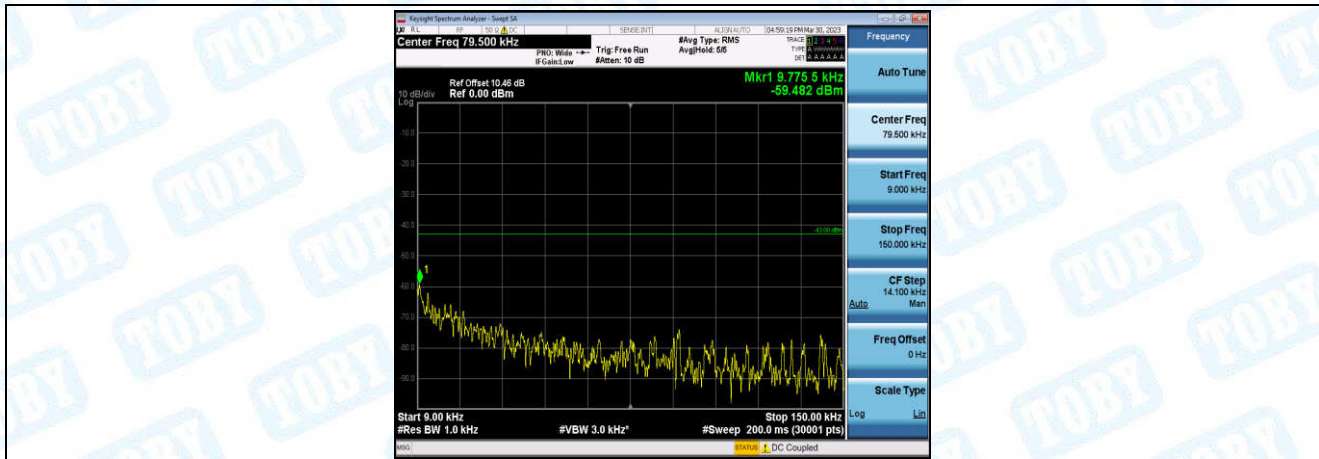


Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz-1000-20000-1000~2000MHz@-40.52dBm--13-PASS



Band66-Stand-Alone-NaN-BPSK-132671-1@11-15kHz-0.009-0.15-0.009~0.15MHz@-58.98dBm--43-PASS





Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-59.48dBm--43-PASS



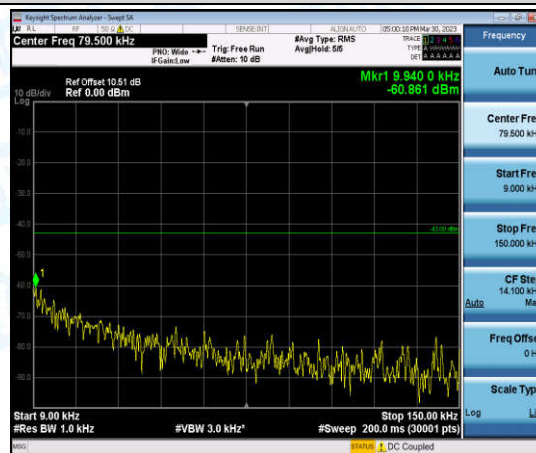
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-0.15-30-0.15~30MHz@-59.86dBm--33-PASS



Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-30-1000-30~1000MHz@-50.17dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz-1000-20000-1000~20000MHz@-40.71dBm--13-PAS
S



Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.86dBm--43-PASS



Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-0.15-30-0.15~30MHz@-66.02dBm--33-PASS

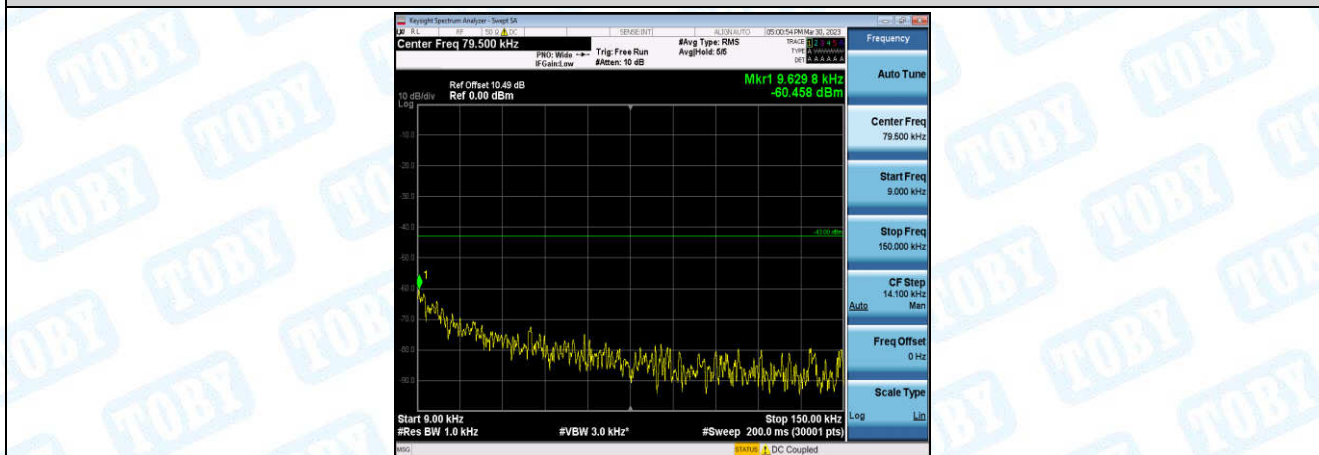


Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-30-1000-30~1000MHz@-50.16dBm--13-PASS

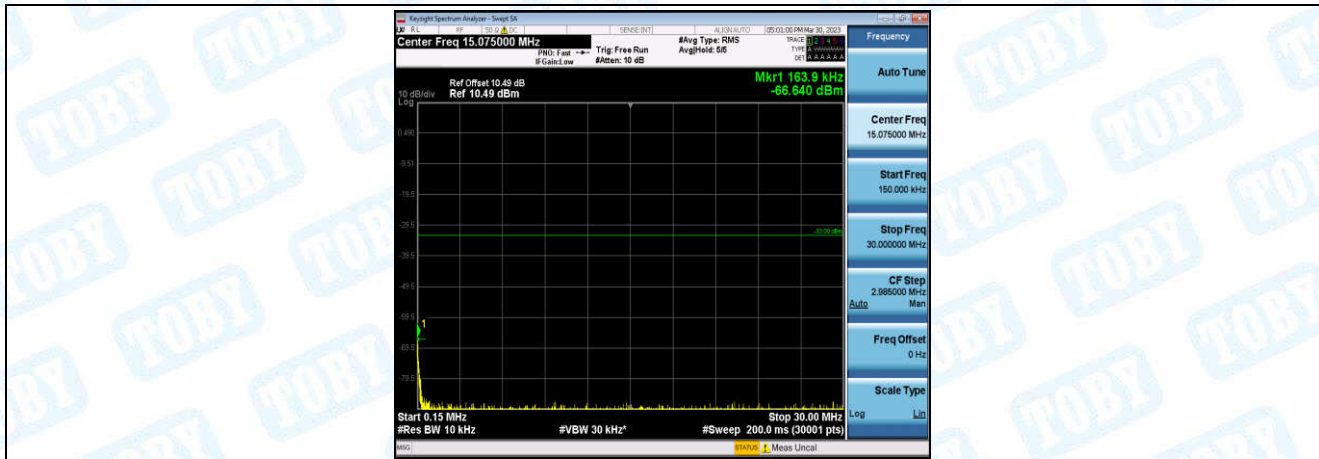


Band66-Stand-Alone-NaN-QPSK-132322-12@0-15kHz-1000-20000-1000~20000MHz@-40.83dBm--13-PAS

S



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.009-0.15-0.009~0.15MHz@-60.46dBm--43-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.15-30-0.15~30MHz@-66.64dBm--33-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-30-1000-30~1000MHz@-50.23dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-1000-20000-1000~20000MHz@-40.74dBm--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
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	VH	NT	13.14	0.007530	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	VL	NT	23.25	0.013324	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	VN	NT	-8.07	-0.004625	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	VH	NT	-8.44	-0.004837	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	VL	NT	24.83	0.014229	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	VN	NT	17.41	0.009977	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	VH	NT	20.28	0.011622	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	VL	NT	-8.52	-0.004883	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	VN	NT	-11.86	-0.006797	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	VH	NT	6.61	0.003788	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	VL	NT	20.17	0.011559	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	VN	NT	14.80	0.008481	±2.5	PASS

Band	OpMode	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	60	14.44	0.008275	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	-20	20.33	0.011650	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	-10	8.34	0.004779	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	0	-12.17	-0.006974	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	10	13.44	0.007702	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	20	15.65	0.008968	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	30	5.73	0.003284	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	40	8.89	0.005095	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@0	NV	-30	-6.84	-0.003920	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	30	16.30	0.009341	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	20	10.35	0.005931	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	10	-10.46	-0.005994	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	0	5.92	0.003393	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	-10	16.80	0.009628	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	40	6.03	0.003456	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	-30	-6.17	-0.003536	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	60	-12.35	-0.007077	±2.5	PASS
Band66	Stand-Alone	3.75kHz	QPSK	132322	1@47	NV	-20	12.41	0.007112	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	60	-13.53	-0.007754	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	-20	-13.90	-0.007966	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	-10	-16.74	-0.009593	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	0	-8.92	-0.005112	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	10	10.31	0.005908	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	20	13.23	0.007582	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	30	17.27	0.009897	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	40	-16.04	-0.009192	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@0	NV	-30	9.67	0.005542	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	40	-17.00	-0.009742	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	30	-6.01	-0.003444	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	20	15.59	0.008934	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	10	9.67	0.005542	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	0	5.99	0.003433	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	-10	-10.45	-0.005989	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	-30	-17.70	-0.010143	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	60	-19.22	-0.011014	±2.5	PASS
Band66	Stand-Alone	15kHz	QPSK	132322	1@11	NV	-20	-17.88	-0.010246	±2.5	PASS

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