

Appendix - BT

BT-L:

1. Frequency Error

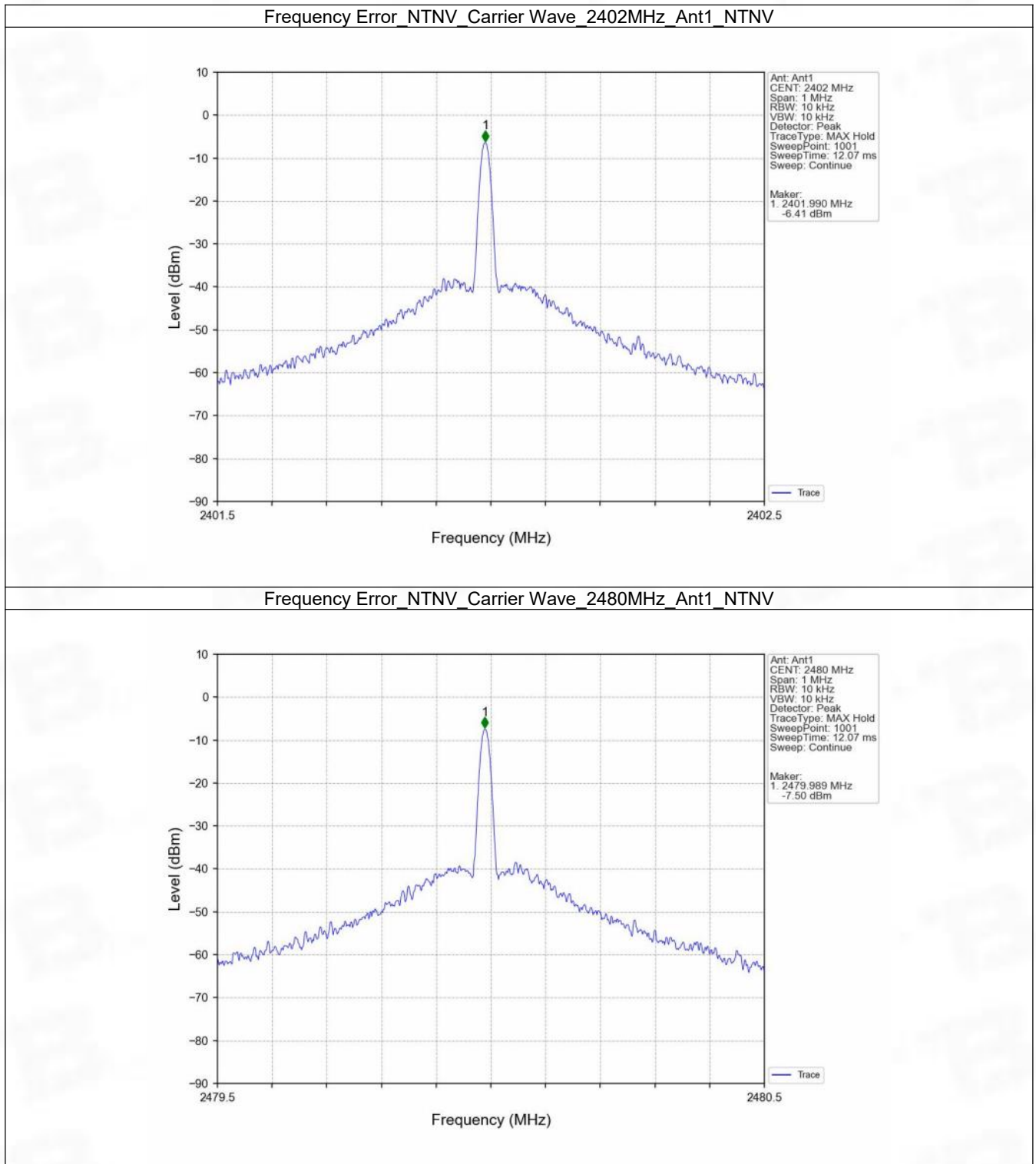
1.1 Test Result

1.1.1 Ant1

Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	Carrier Wave	SISO	2402	DH5	2401.990	-4.16	-50 to 50	Pass
			2480	DH5	2479.989	-4.44	-50 to 50	Pass

1.2 Test Graph

1.2.1 Ant1



2. Occupied Bandwidth

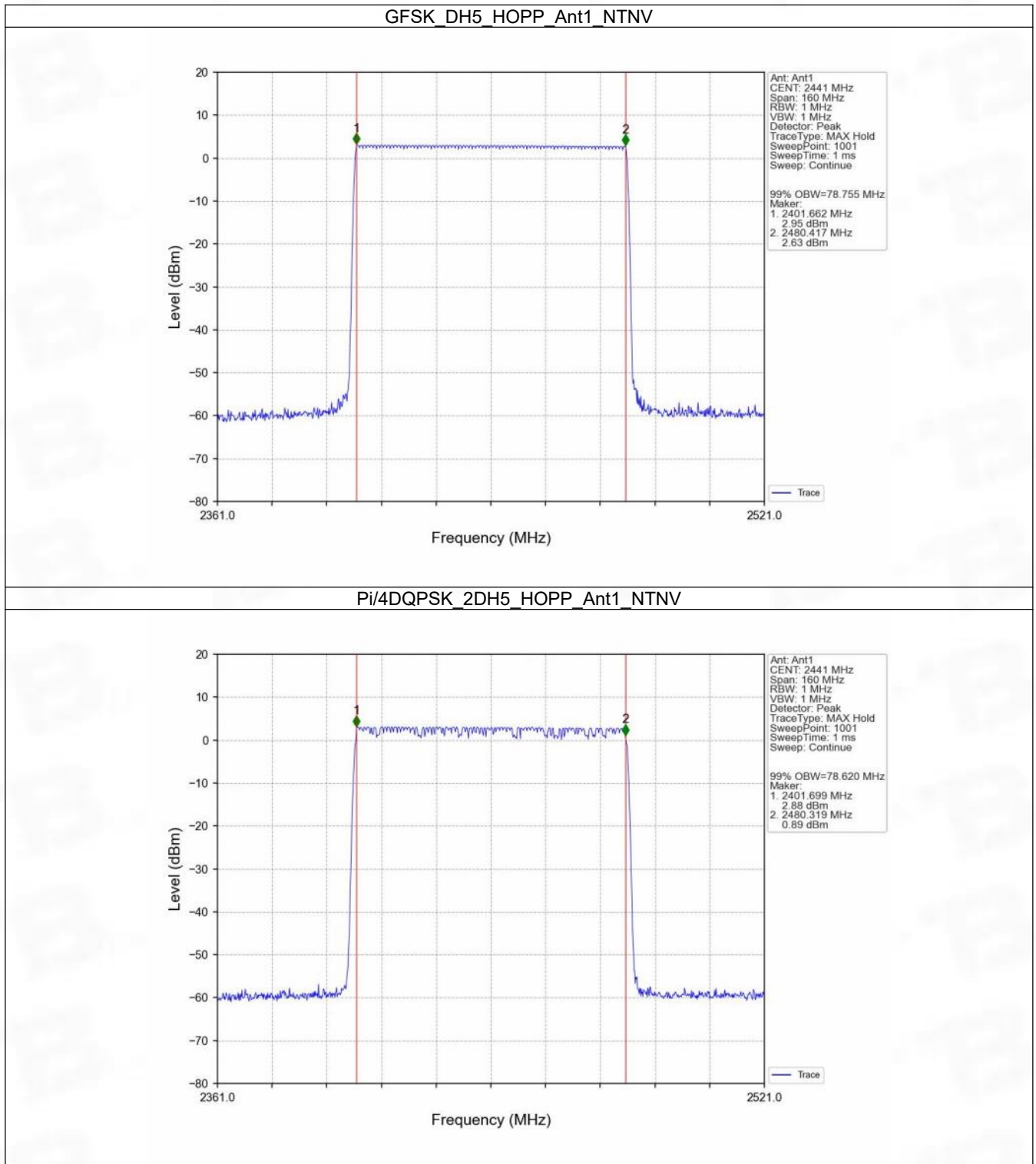
2.1 Test Result

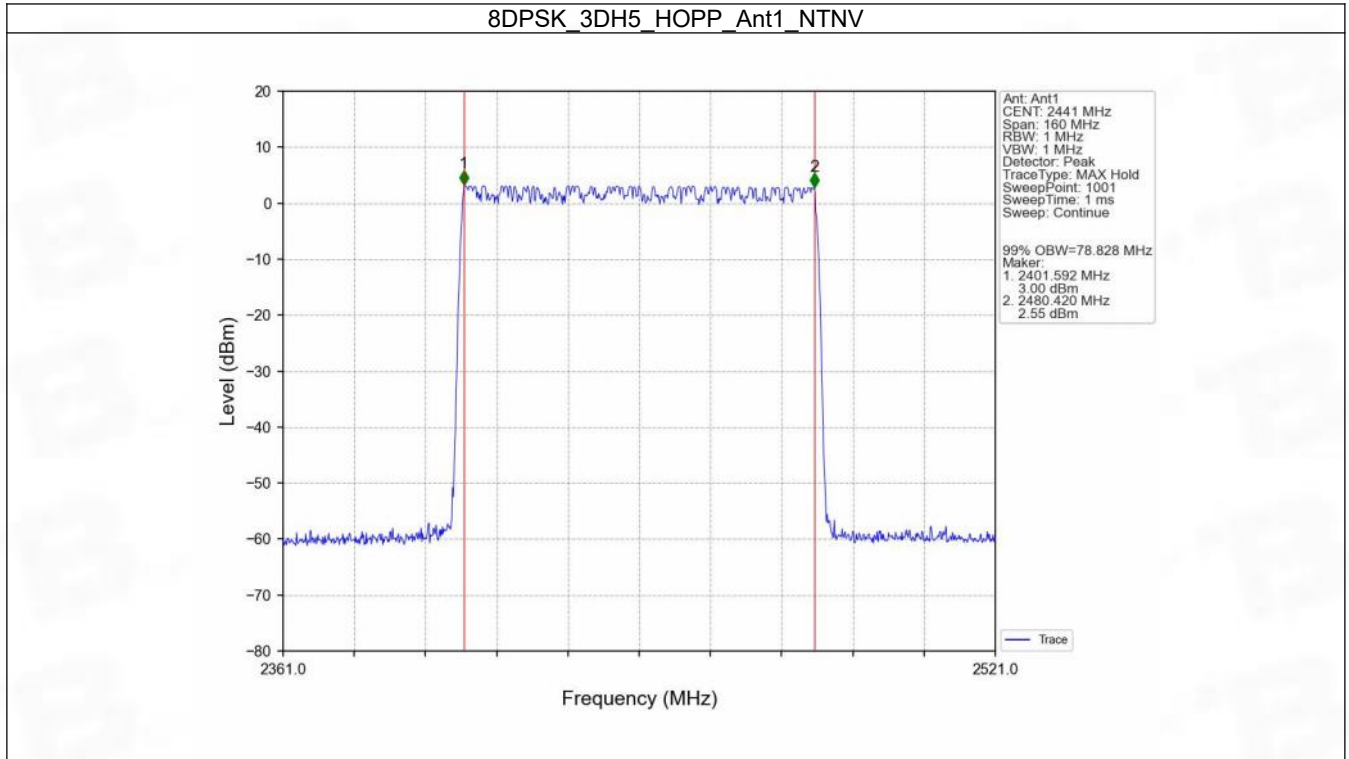
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.755	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.620	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.828	≤ 83.5	Pass

2.2 Test Graph

2.2.1 OBW





3. Spread Bandwidth

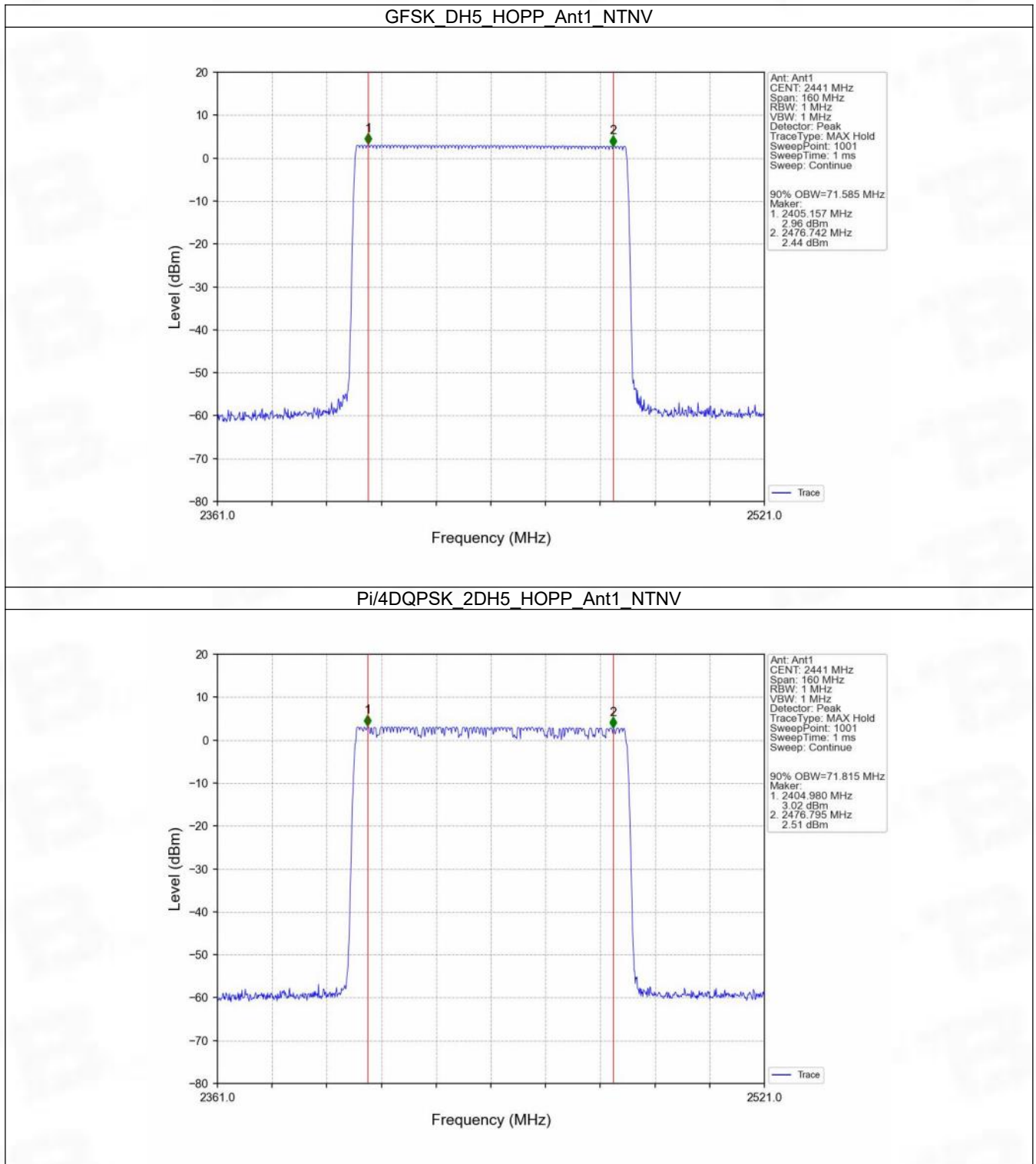
3.1 Test Result

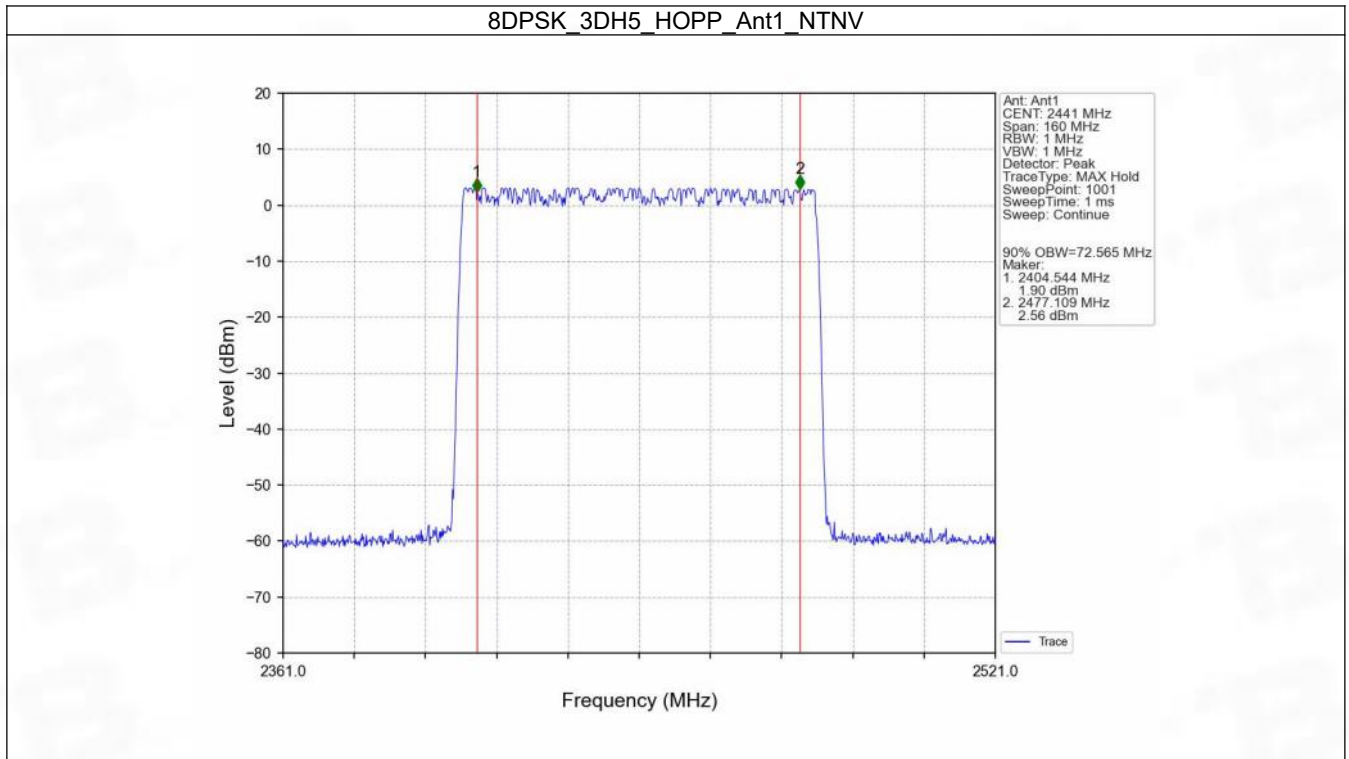
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.585	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.815	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	72.565	/	Only For Report

3.2 Test Graph

3.2.1 SPBW





4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Total power		Spread Bandwidth (MHz)
						dBm	mW	
NTNV	GFSK	SISO	HOPP	DH5	1	1.27	1.340	71.585
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-0.41	0.910	71.815
	8DPSK	SISO	HOPP	3DH5	1	0.75	1.189	72.565

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.019	<=3.00	0.016	18.75	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.013	<=3.00	0.016	-18.75	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.016	<=3.00	0.016	0.00	<=20	Pass

Note: Antenna power=Total power/Spread bandwidth.

4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	Antenna Power (dBm/MHz)	EIRP (dBm/MHz)		Verdict
								Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	-1.01	-17.21	-18.22	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-1.01	-18.86	-19.87	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-1.01	-17.96	-18.97	<=6.91	Pass

5. Dwell Time

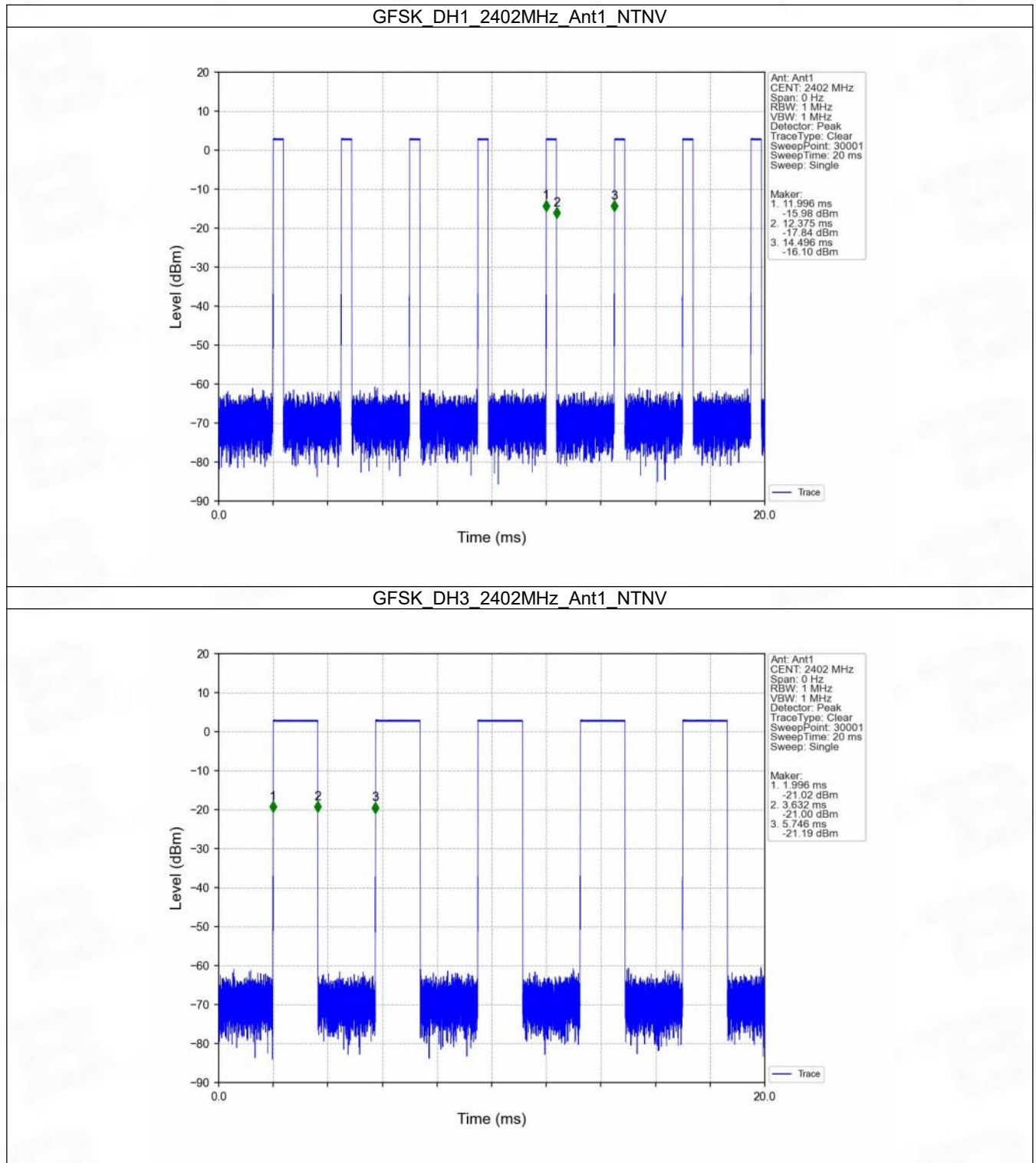
5.1 Test Result

5.1.1 Ant1

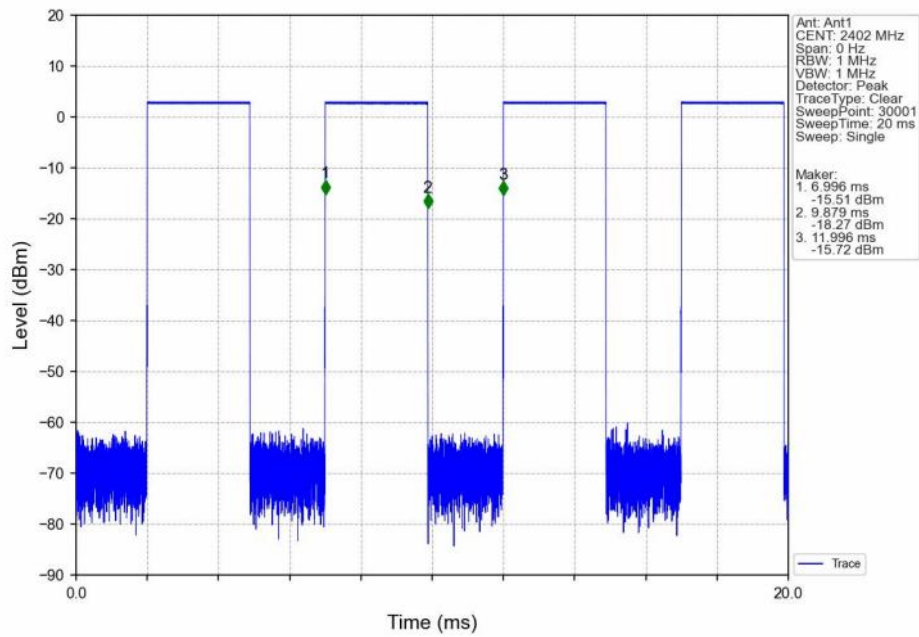
Ant1											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	71.585	0.379	2.500	79	54.948	<=400	Pass
				DH3	71.585	1.636	3.750	79	158.127	<=400	Pass
				DH5	71.585	2.883	5.000	79	208.992	<=400	Pass
			2480	DH1	71.585	0.379	2.500	79	54.948	<=400	Pass
				DH3	71.585	1.636	3.750	79	158.127	<=400	Pass
				DH5	71.585	2.884	5.000	79	209.064	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.815	0.390	2.500	79	56.725	<=400	Pass
				2DH3	71.815	1.642	3.750	79	159.217	<=400	Pass
				2DH5	71.815	2.890	5.000	79	210.173	<=400	Pass
			2480	2DH1	71.815	0.389	2.500	79	56.579	<=400	Pass
				2DH3	71.815	1.641	3.750	79	159.120	<=400	Pass
				2DH5	71.815	2.890	5.000	79	210.173	<=400	Pass
	8DPSK	SISO	2402	3DH1	72.565	0.389	2.500	79	57.170	<=400	Pass
				3DH3	72.565	1.639	3.750	79	160.586	<=400	Pass
				3DH5	72.565	2.890	5.000	79	212.367	<=400	Pass
			2480	3DH1	72.565	0.390	2.500	79	57.317	<=400	Pass
				3DH3	72.565	1.640	3.750	79	160.684	<=400	Pass
				3DH5	72.565	2.891	5.000	79	212.441	<=400	Pass

5.2 Test Graph

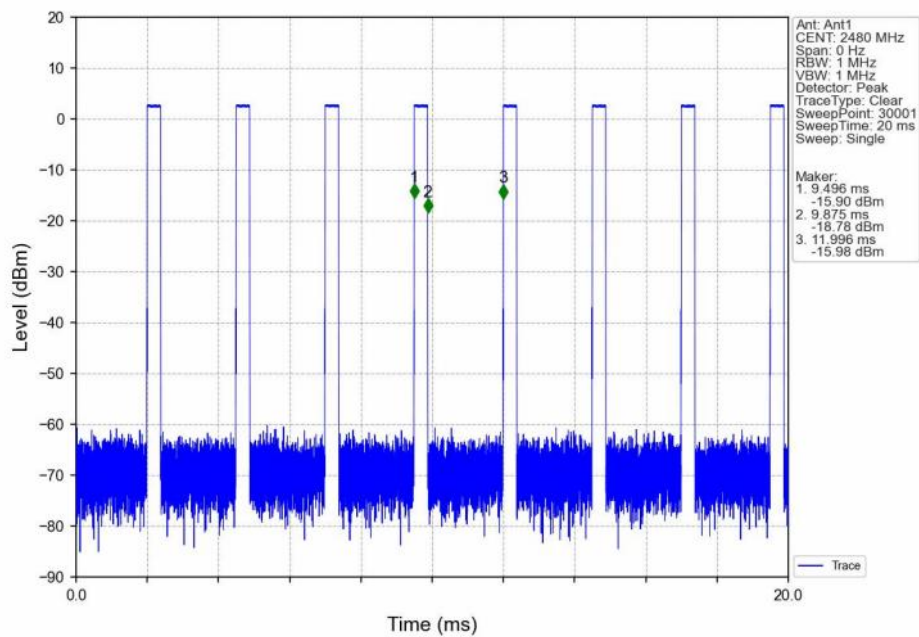
5.2.1 Ant1



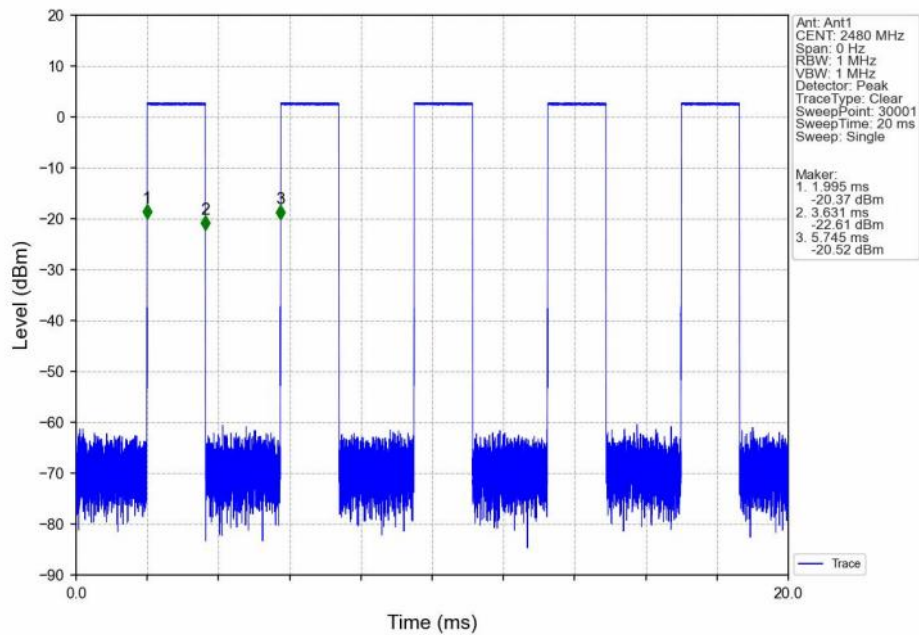
GFSK_DH5_2402MHz_Ant1_NTNV



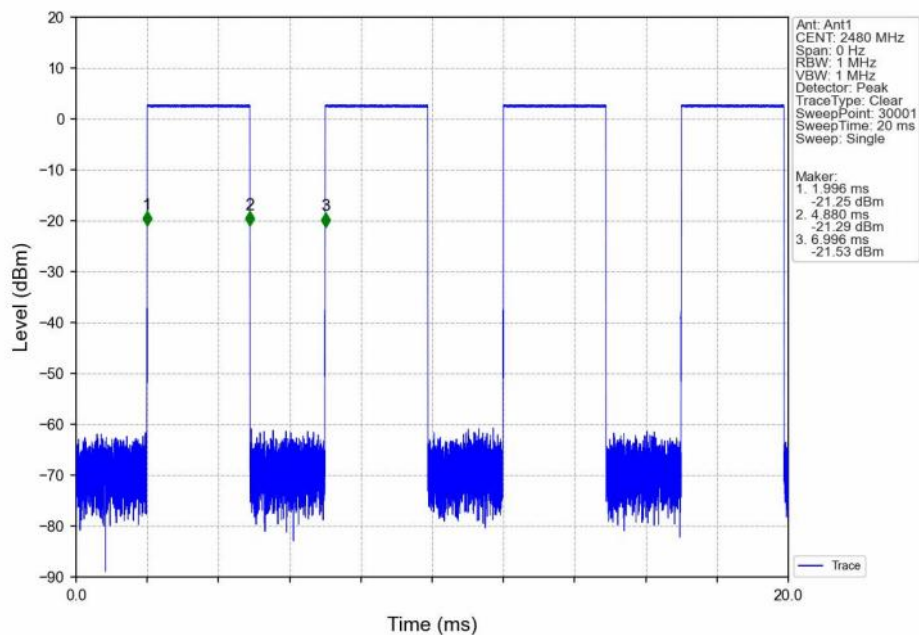
GFSK_DH1_2480MHz_Ant1_NTNV



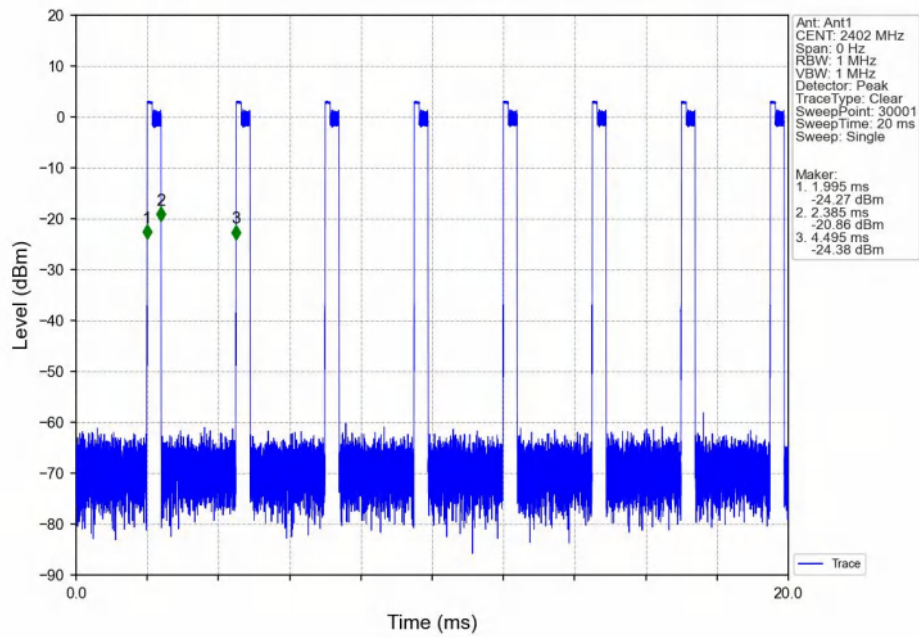
GFSK_DH3_2480MHz_Ant1_NTNV



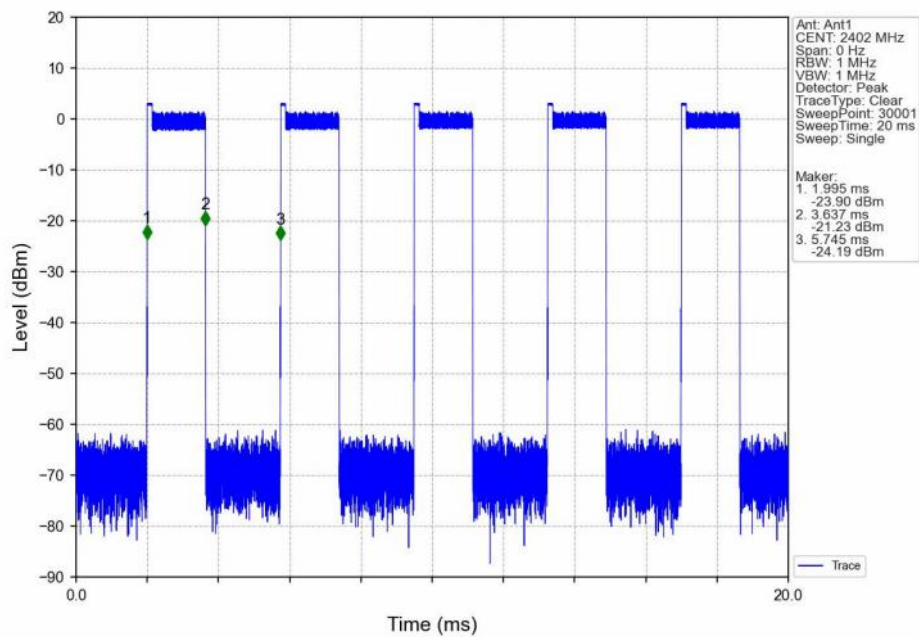
GFSK_DH5_2480MHz_Ant1_NTNV



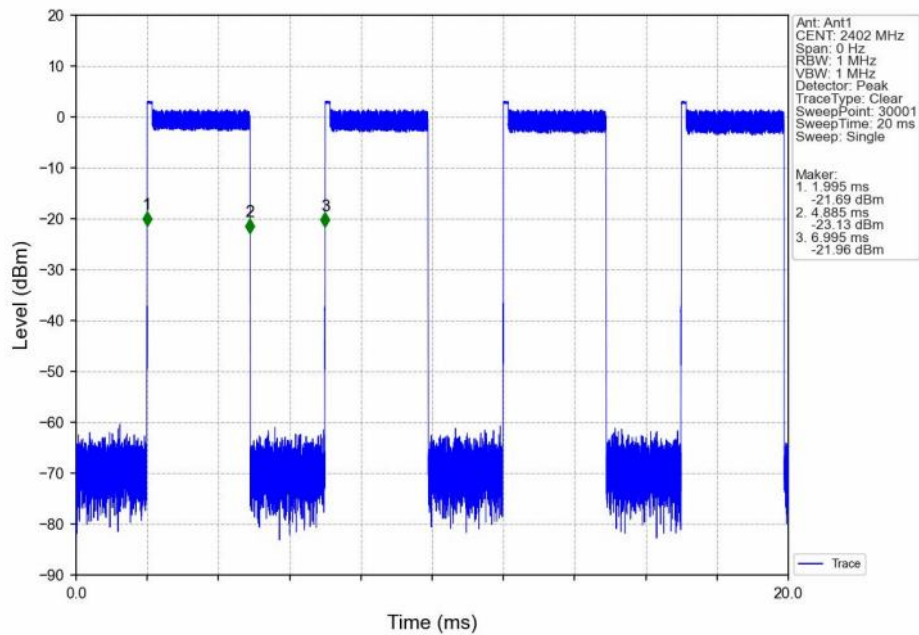
Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



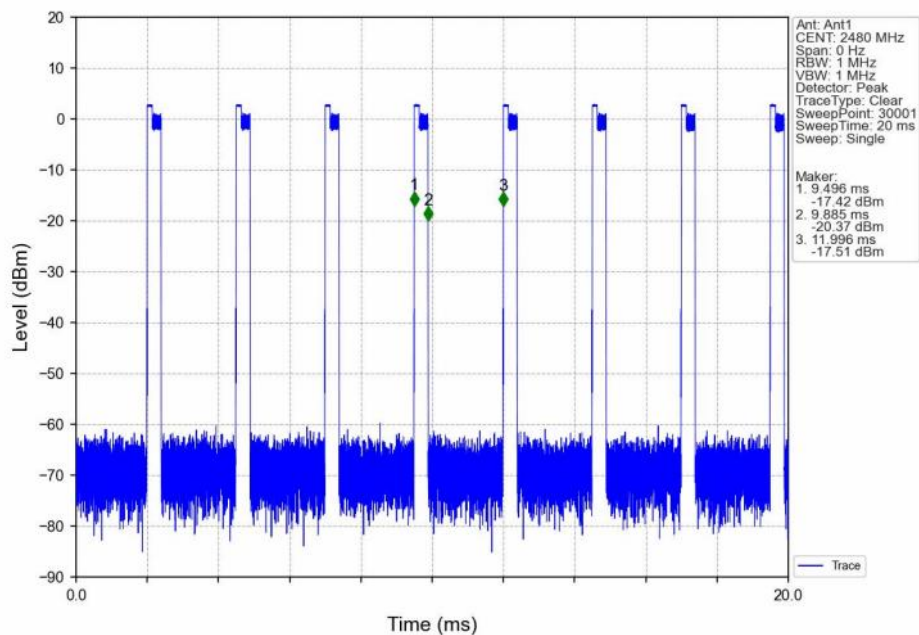
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTNV



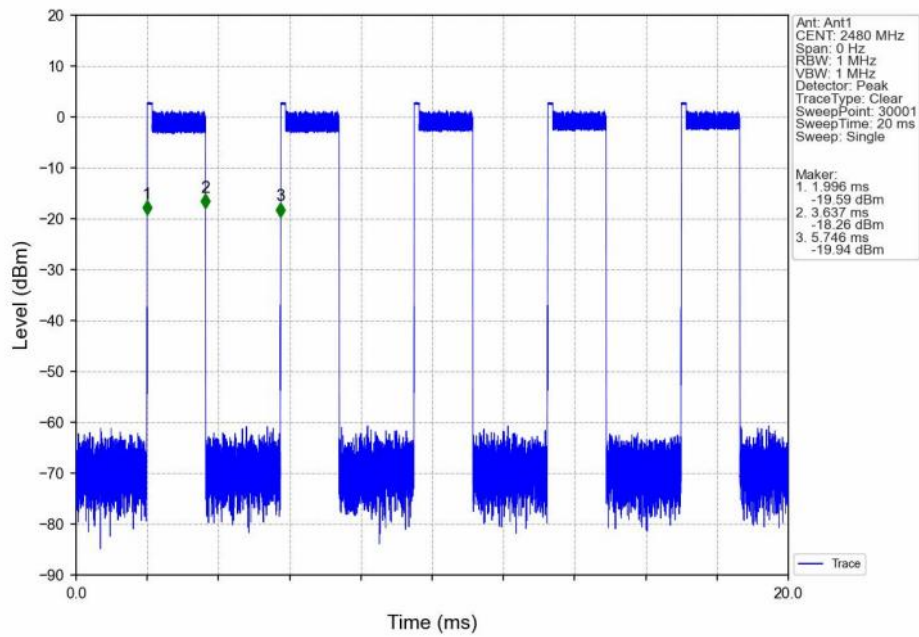
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



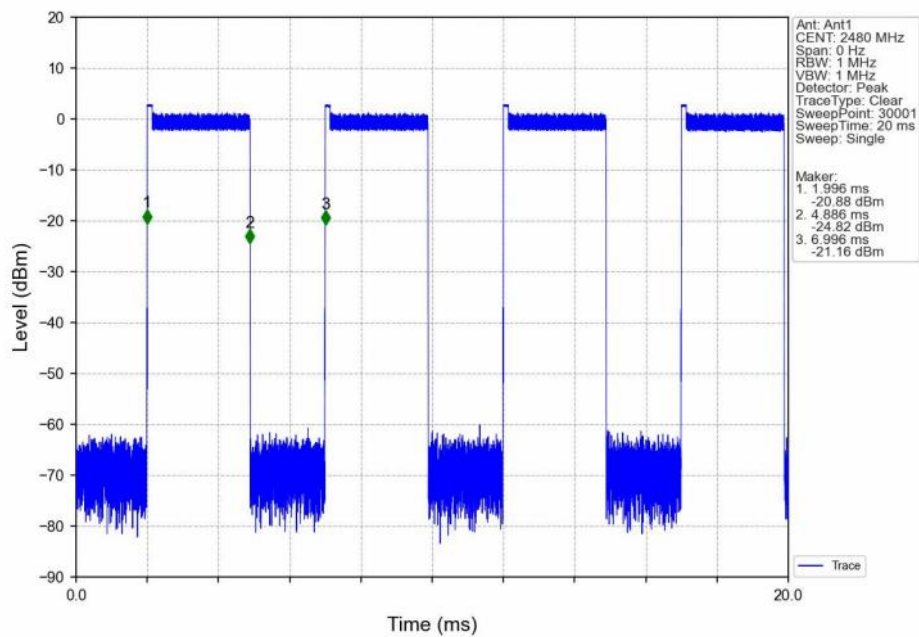
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



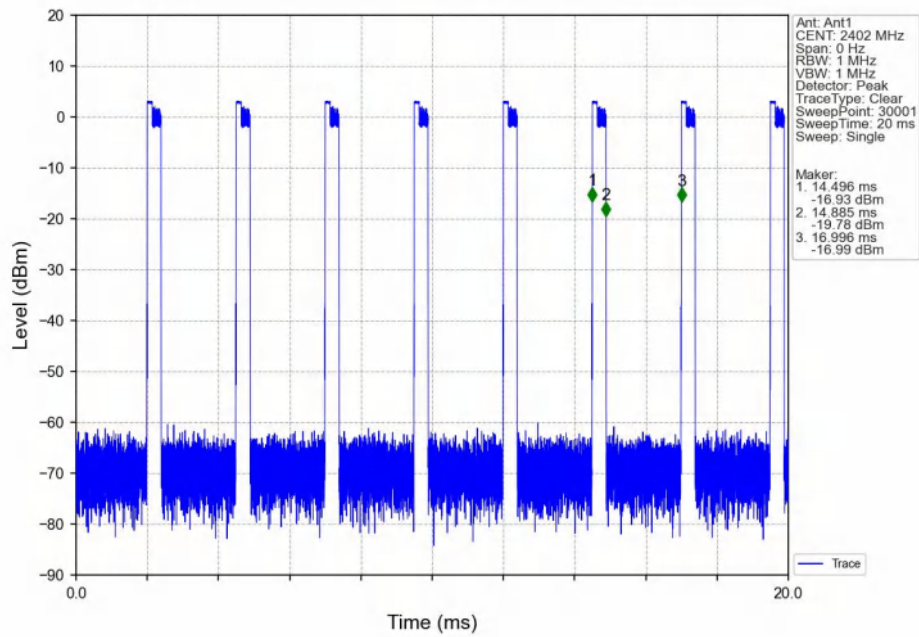
Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



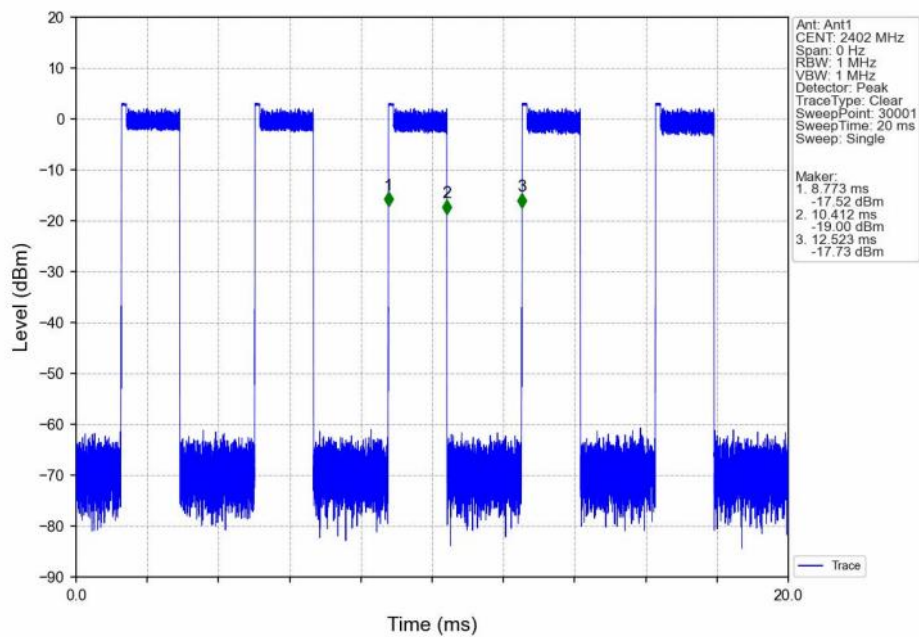
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



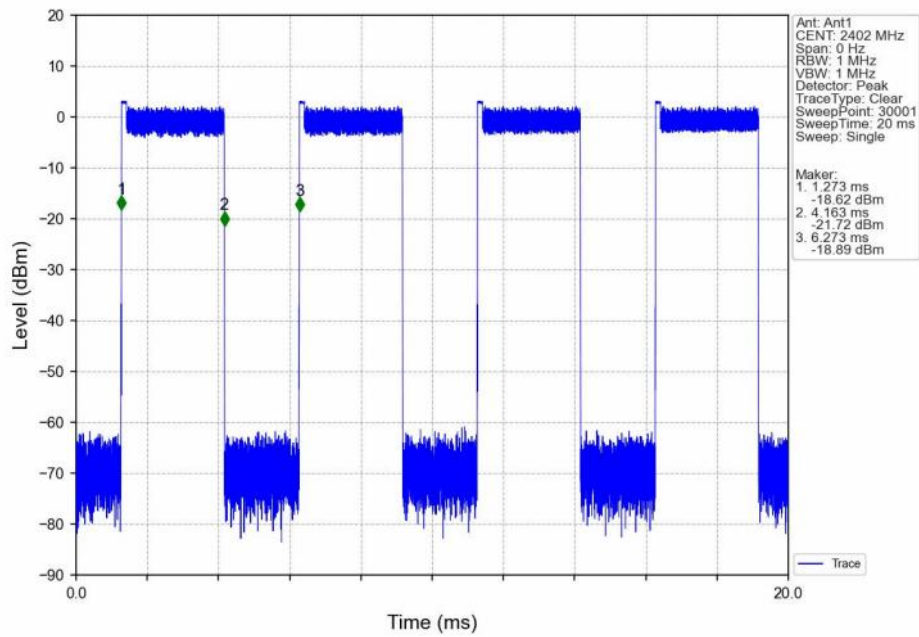
8DPSK_3DH1_2402MHz_Ant1_NTNV



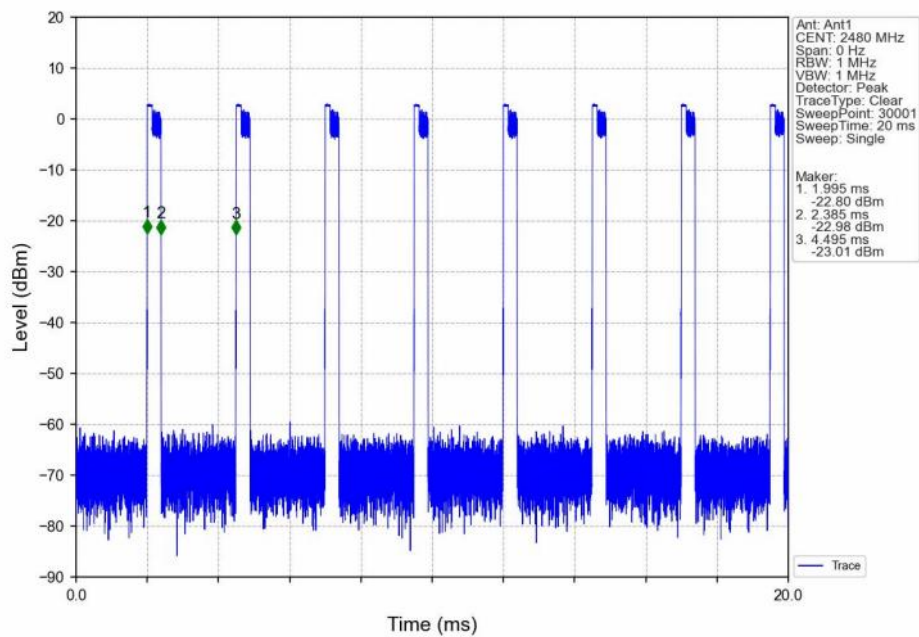
8DPSK_3DH3_2402MHz_Ant1_NTNV



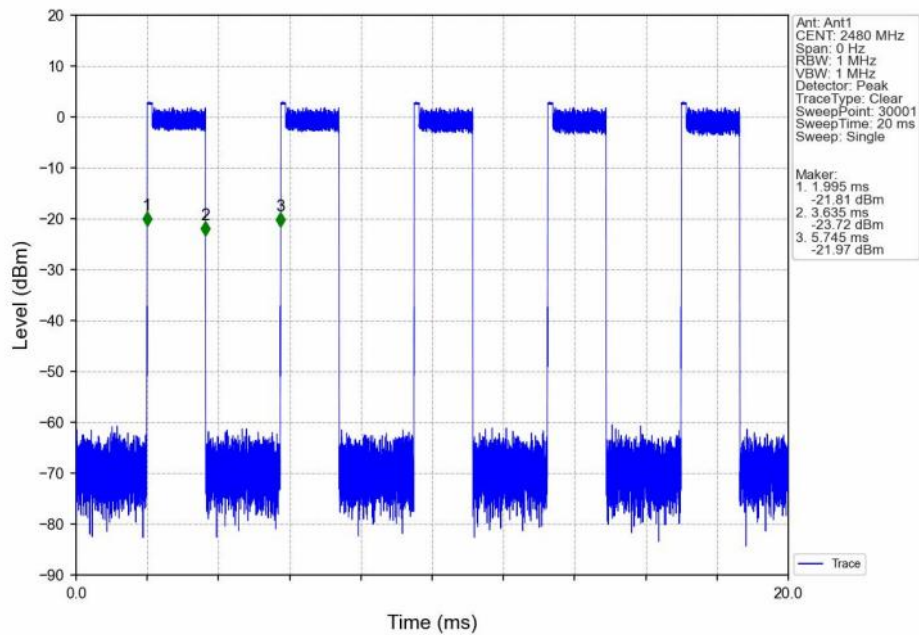
8DPSK_3DH5_2402MHz_Ant1_NTNV



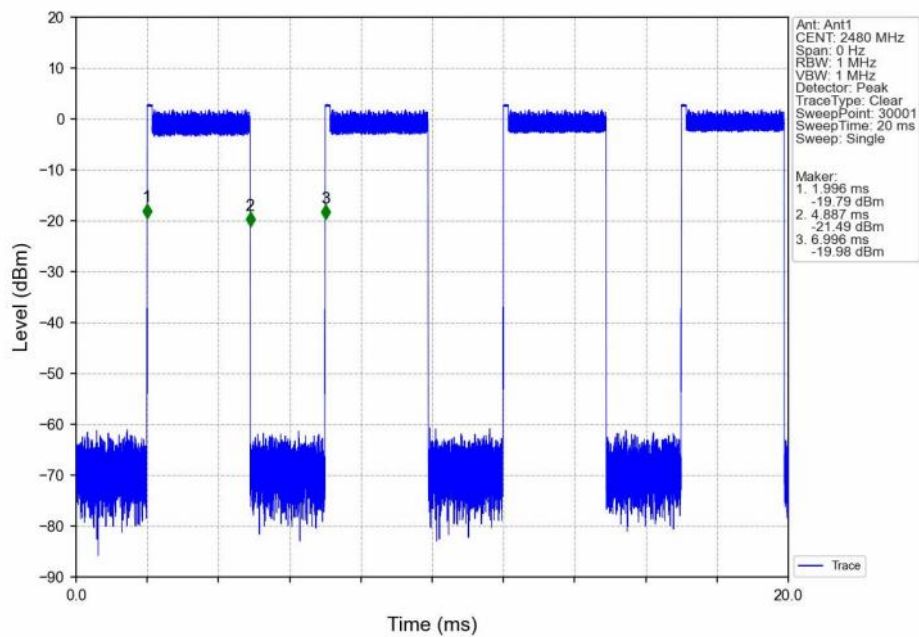
8DPSK_3DH1_2480MHz_Ant1_NTNV



8DPSK_3DH3_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



6. Spurious Emission Intensity

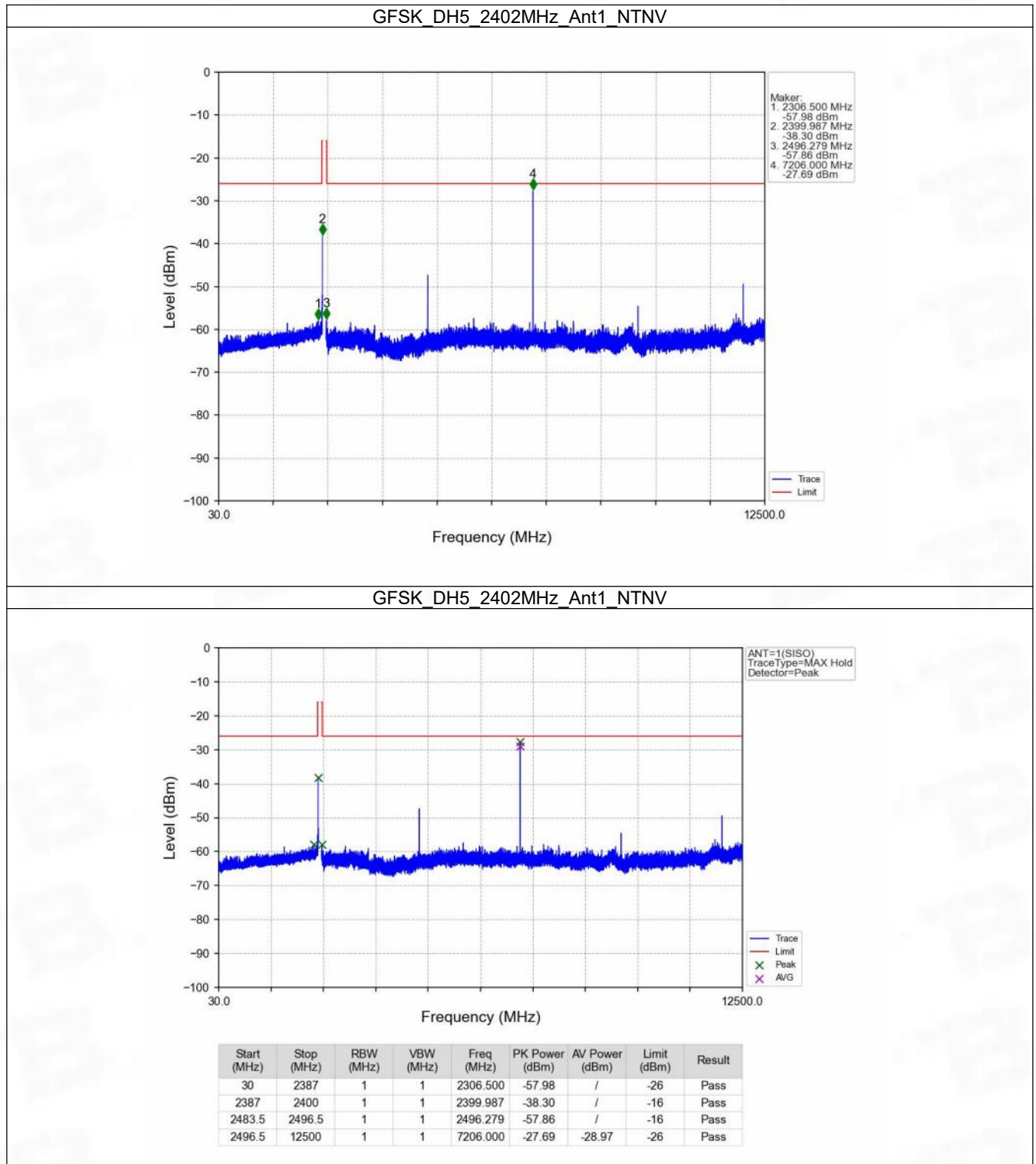
6.1 Test Result

6.1.1 TxSe_NTNV

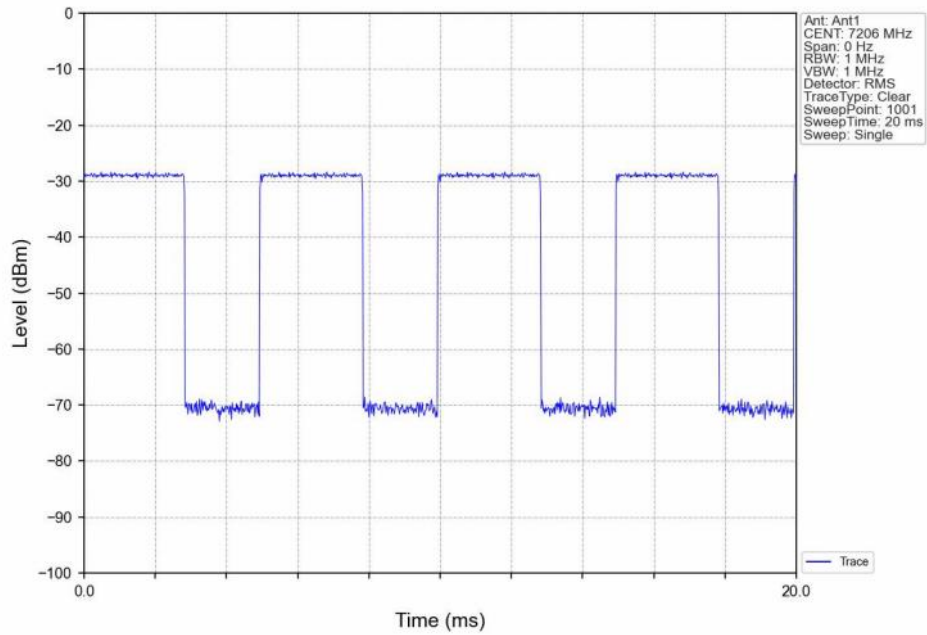
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2306.5	-57.98	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.30	0.148	/	/	25	Pass
				2483.5	2496.5	2496.279	-57.86	0.002	/	/	25	Pass
				2496.5	12500	7206	-27.69	1.702	-28.97	1.268	2.5	Pass
		2480	1	30	2387	2384	-57.92	0.002	/	/	2.5	Pass
				2387	2400	2387.52	-58.58	0.001	/	/	25	Pass
				2483.5	2496.5	2483.578	-52.62	0.005	/	/	25	Pass
				2496.5	12500	7440	-27.34	1.845	-28.68	1.355	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2365	-58.18	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-30.39	0.914	/	/	25	Pass
				2483.5	2496.5	2491.131	-58.47	0.001	/	/	25	Pass
				2496.5	12500	7206	-27.91	1.618	-32.80	0.525	2.5	Pass
		2480	1	30	2387	2384	-58.26	0.001	/	/	2.5	Pass
				2387	2400	2399.272	-58.32	0.001	/	/	25	Pass
				2483.5	2496.5	2483.864	-53.24	0.005	/	/	25	Pass
				2496.5	12500	7440	-27.87	1.633	-32.76	0.530	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2386.5	-57.59	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-30.39	0.914	/	/	25	Pass
				2483.5	2496.5	2486.607	-57.56	0.002	/	/	25	Pass
				2496.5	12500	7206.5	-27.90	1.622	-34.93	0.321	2.5	Pass
		2480	1	30	2387	896.5	-58.40	0.001	/	/	2.5	Pass
				2387	2400	2394.293	-58.87	0.001	/	/	25	Pass
				2483.5	2496.5	2483.539	-53.68	0.004	/	/	25	Pass
				2496.5	12500	7440	-29.77	1.054	/	/	2.5	Pass

6.2 Test Graph

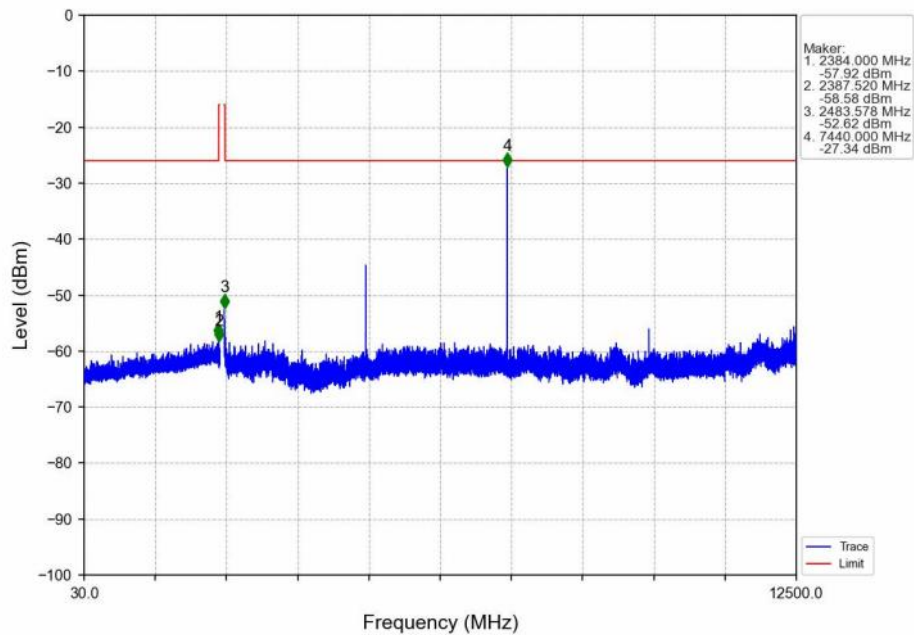
6.2.1 TxSe_NTNV



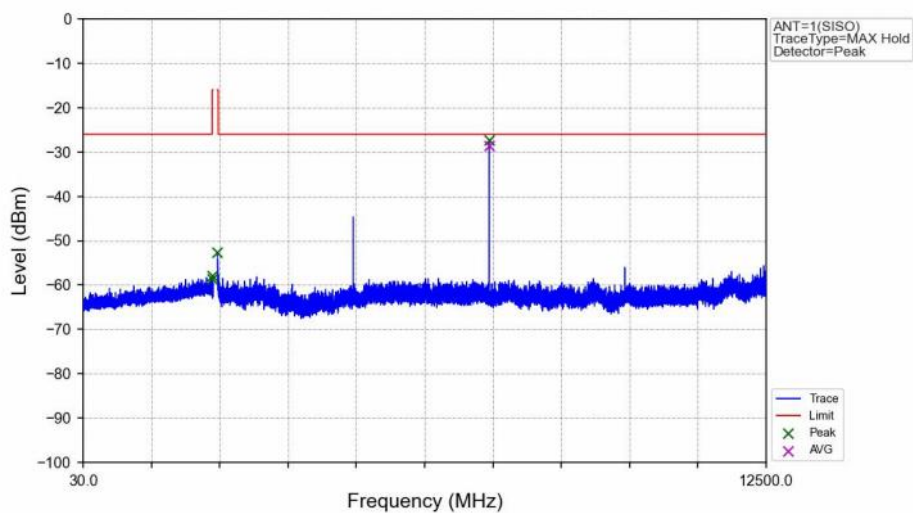
GFSK_DH5_2402MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

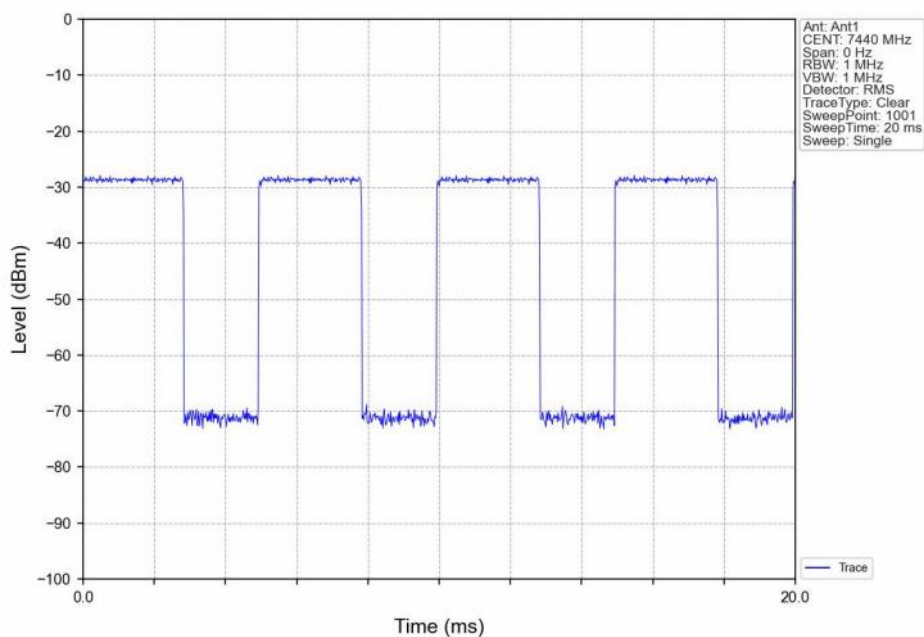


GFSK_DH5_2480MHz_Ant1_NTNV

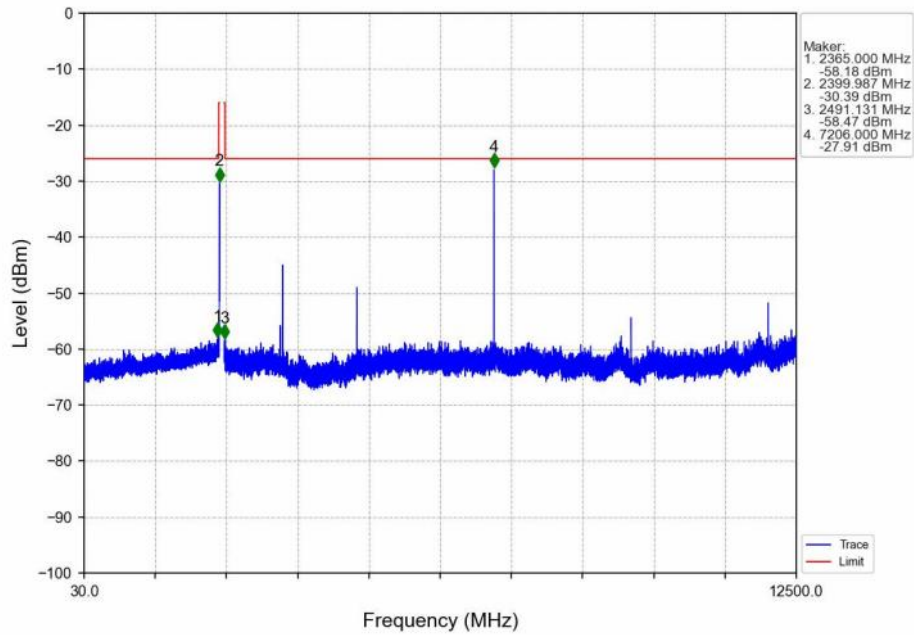


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.000	-57.92	/	-26	Pass
2387	2400	1	1	2387.520	-58.58	/	-16	Pass
2483.5	2496.5	1	1	2483.578	-52.62	/	-16	Pass
2496.5	12500	1	1	7440.000	-27.34	-28.68	-26	Pass

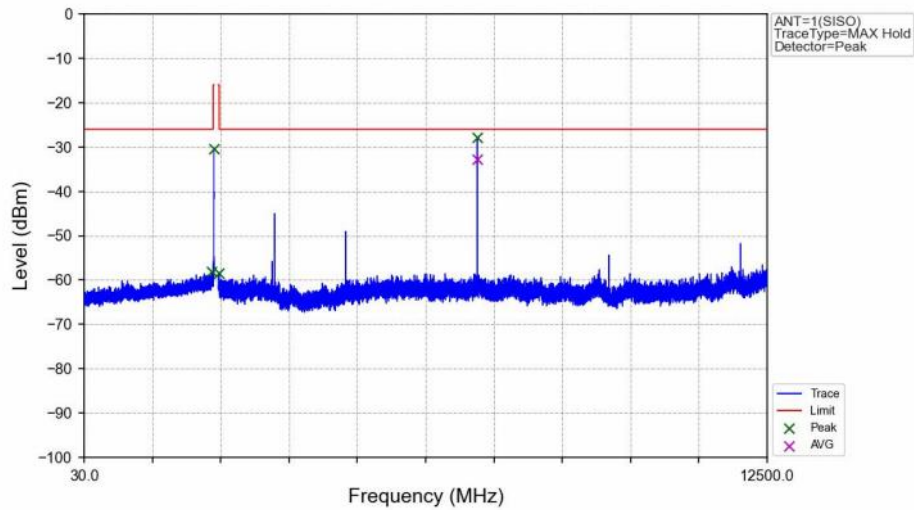
GFSK_DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

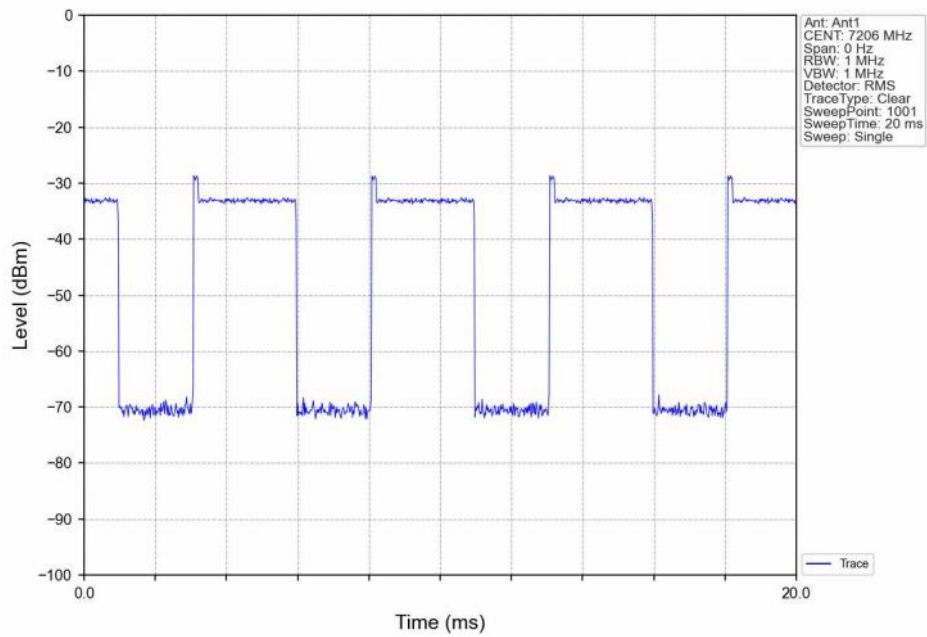


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

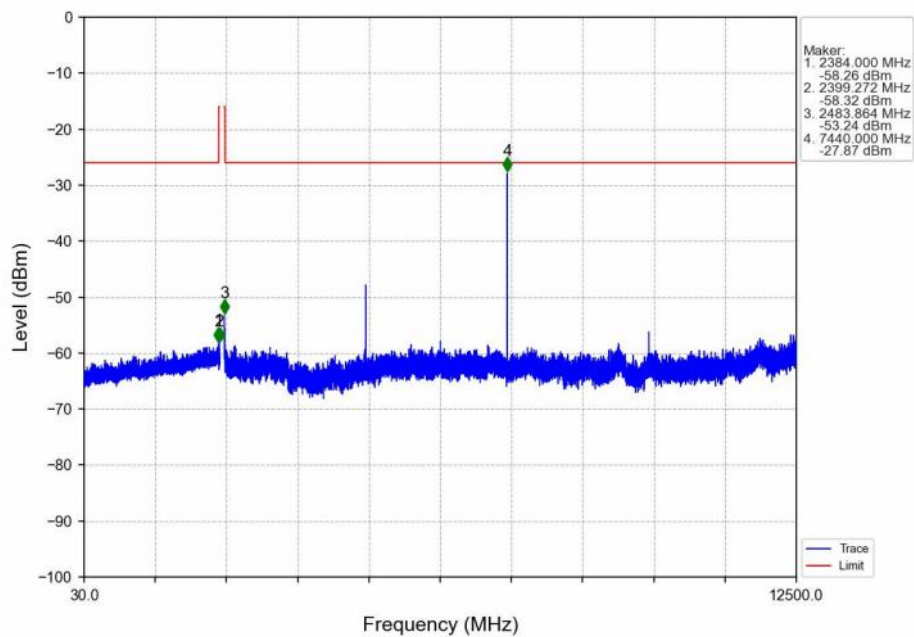


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2365.000	-58.18	/	-26	Pass
2387	2400	1	1	2399.987	-30.39	/	-16	Pass
2483.5	2496.5	1	1	2491.131	-58.47	/	-16	Pass
2496.5	12500	1	1	7206.000	-27.91	-32.80	-26	Pass

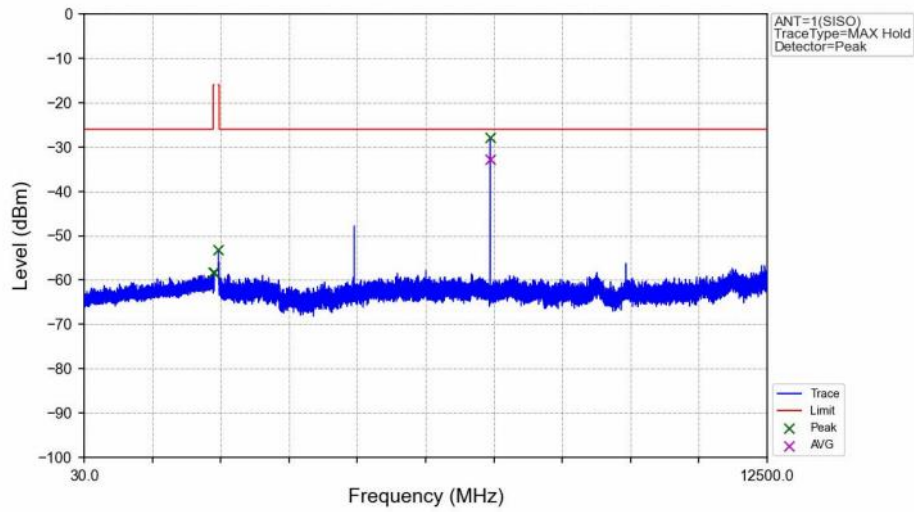
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

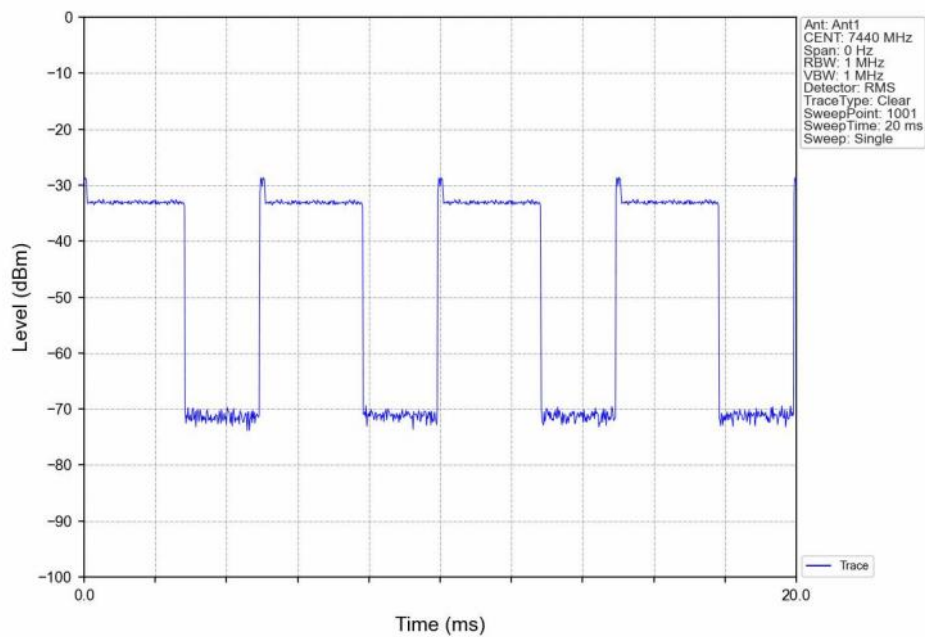


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

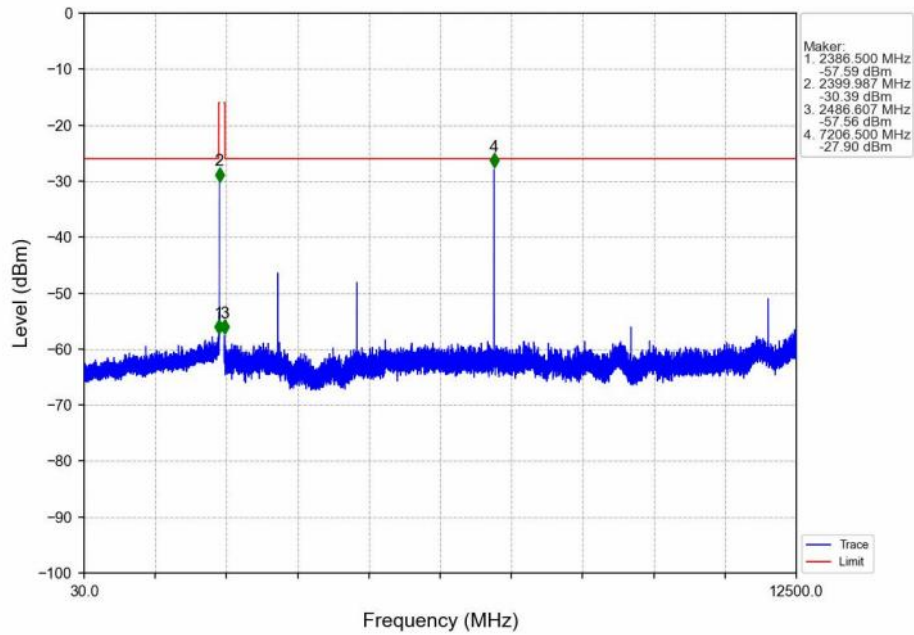


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.000	-58.26	/	-26	Pass
2387	2400	1	1	2399.272	-58.32	/	-16	Pass
2483.5	2496.5	1	1	2483.864	-53.24	/	-16	Pass
2496.5	12500	1	1	7440.000	-27.87	-32.76	-26	Pass

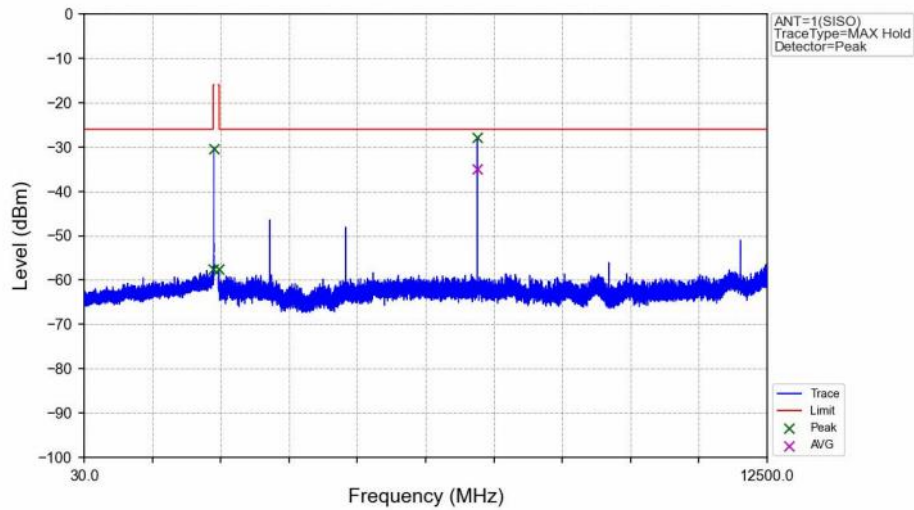
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

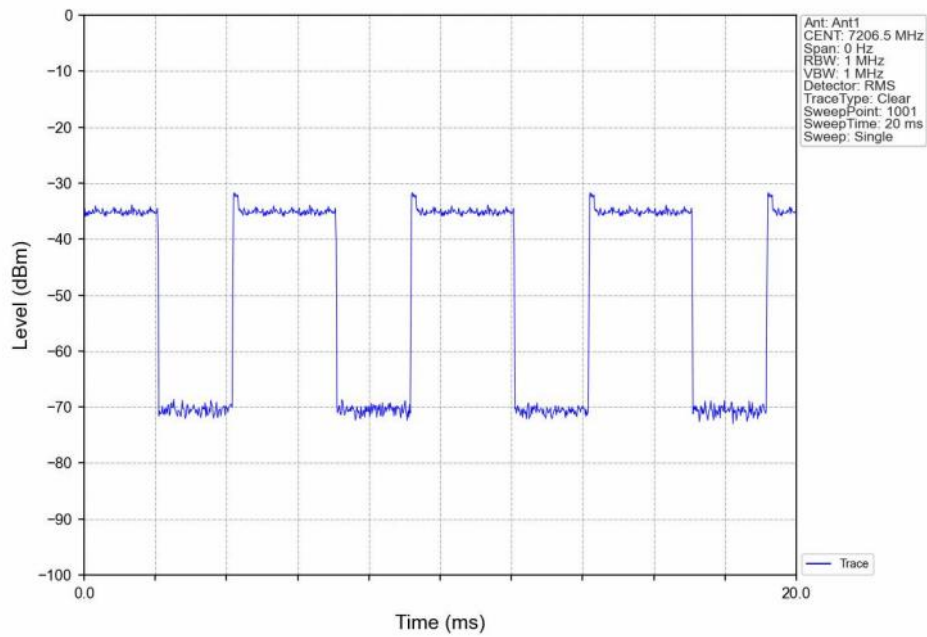


8DPSK_3DH5_2402MHz_Ant1_NTNV

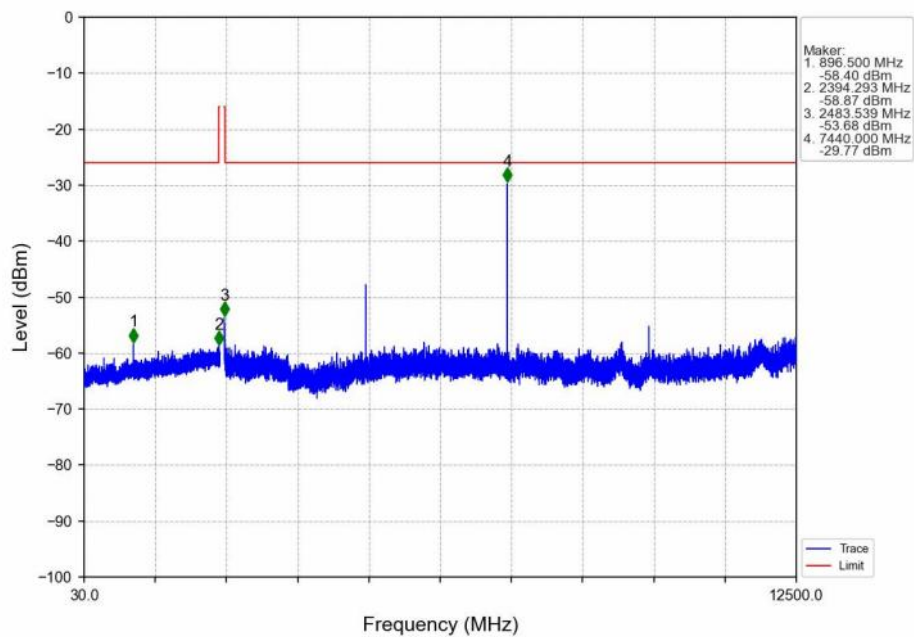


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.500	-57.59	/	-26	Pass
2387	2400	1	1	2399.987	-30.39	/	-16	Pass
2483.5	2496.5	1	1	2486.607	-57.56	/	-16	Pass
2496.5	12500	1	1	7206.500	-27.90	-34.93	-26	Pass

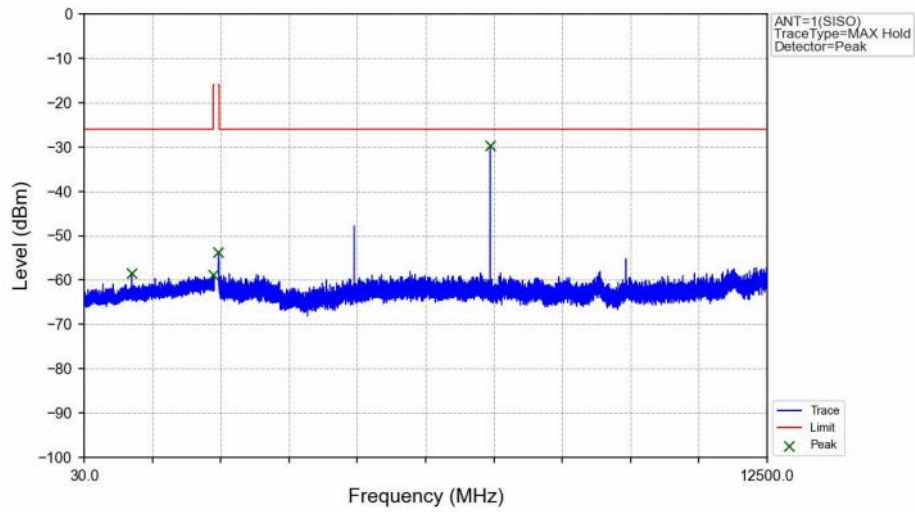
8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	896.500	-58.40	/	-26	Pass
2387	2400	1	1	2394.293	-58.87	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-53.68	/	-16	Pass
2496.5	12500	1	1	7440.000	-29.77	/	-26	Pass

7. Secondary Radiated Emission

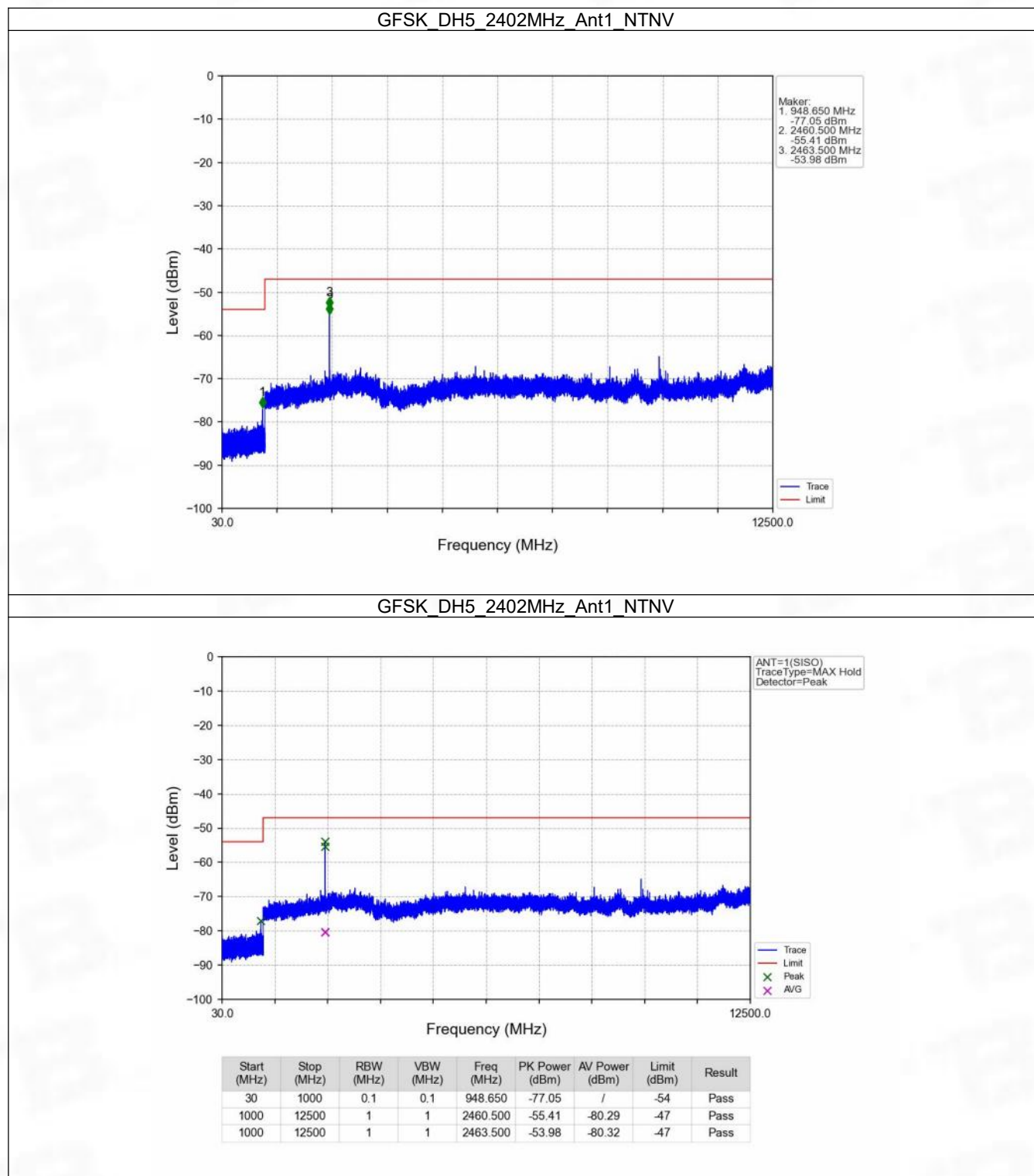
7.1 Test Result

7.1.1 RxSe_NTNV

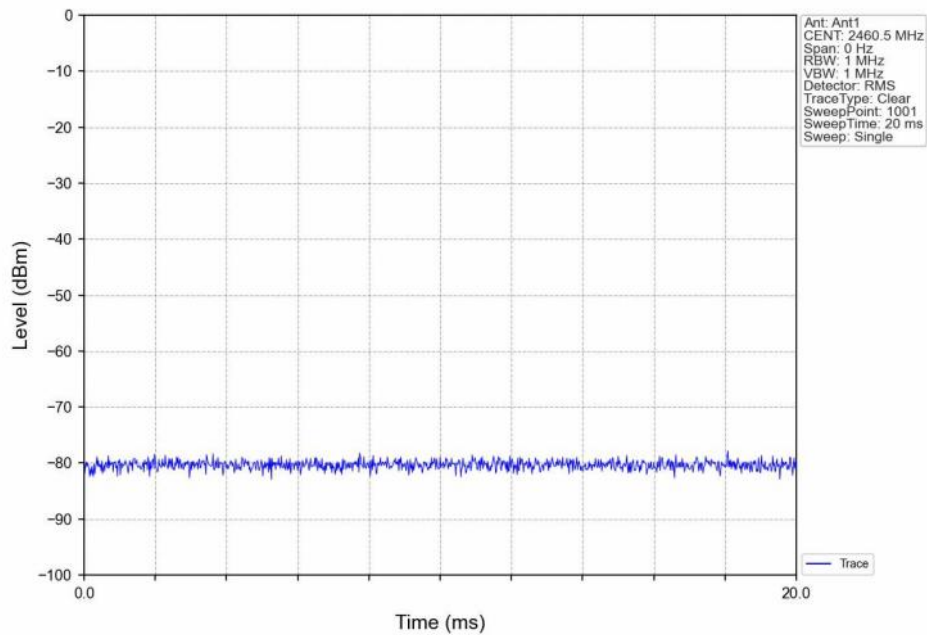
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	948.65	-77.05	0.020	/	/	4	Pass
				1000	12500	2460.5	-55.41	2.877	-80.29	0.009	20	Pass
						2463.5	-53.98	3.999	-80.32	0.009	20	Pass
		2480	1	30	1000	948.6	-76.95	0.020	/	/	4	Pass
				1000	12500	2460.5	-54.17	3.828	-80.26	0.009	20	Pass
						2463.5	-52.17	6.067	-80.29	0.009	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	948.55	-79.51	0.011	/	/	4	Pass
				1000	12500	2463.5	-55.41	2.877	-67.23	0.189	20	Pass
						2467.5	-56.98	2.004	-77.69	0.017	20	Pass
		2480	1	30	1000	948.6	-78.88	0.013	/	/	4	Pass
				1000	12500	2462	-63.06	0.494	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	863.25	-80.01	0.010	/	/	4	Pass
				1000	12500	2463	-63.15	0.484	/	/	20	Pass
		2480	1	30	1000	929.25	-78.91	0.013	/	/	4	Pass
				1000	12500	2461.5	-59.72	1.067	/	/	20	Pass

7.2 Test Graph

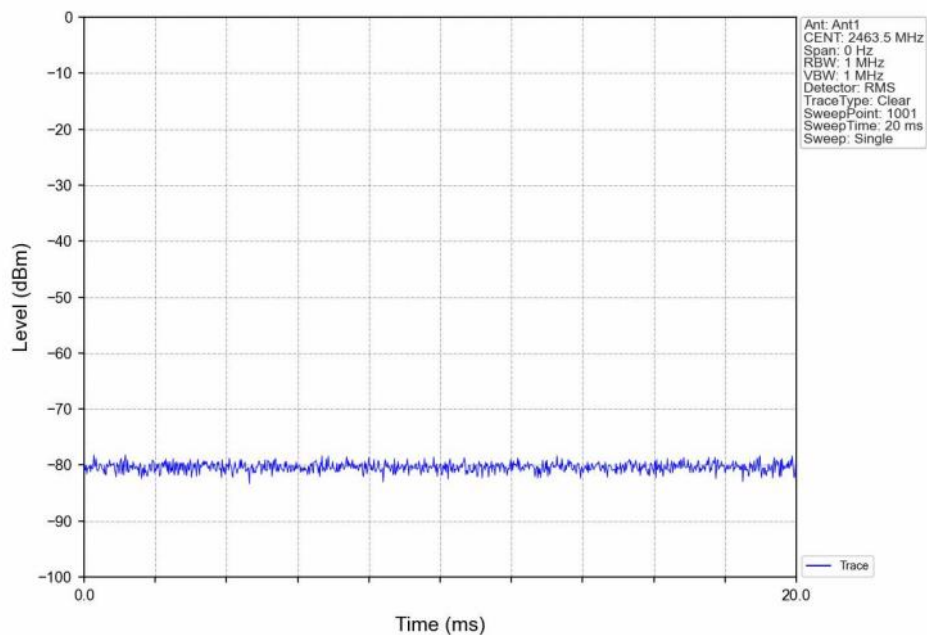
7.2.1 RxSe_NTNV



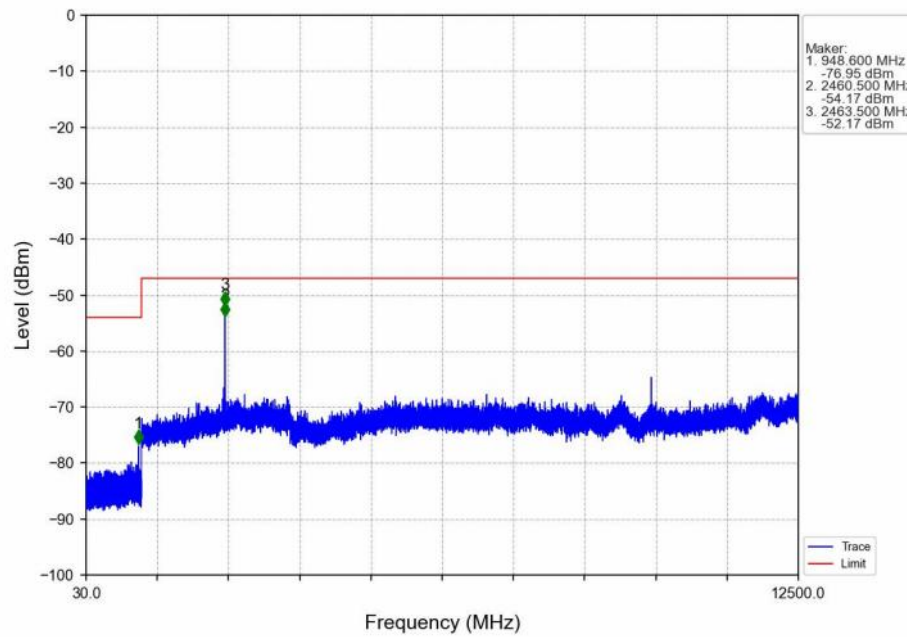
GFSK_DH5_2402MHz_Ant1_NTNV



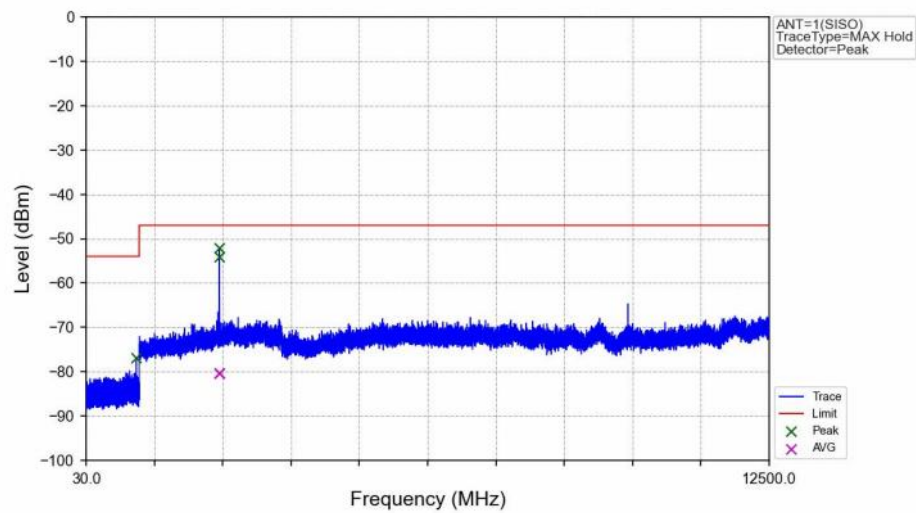
GFSK_DH5_2402MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

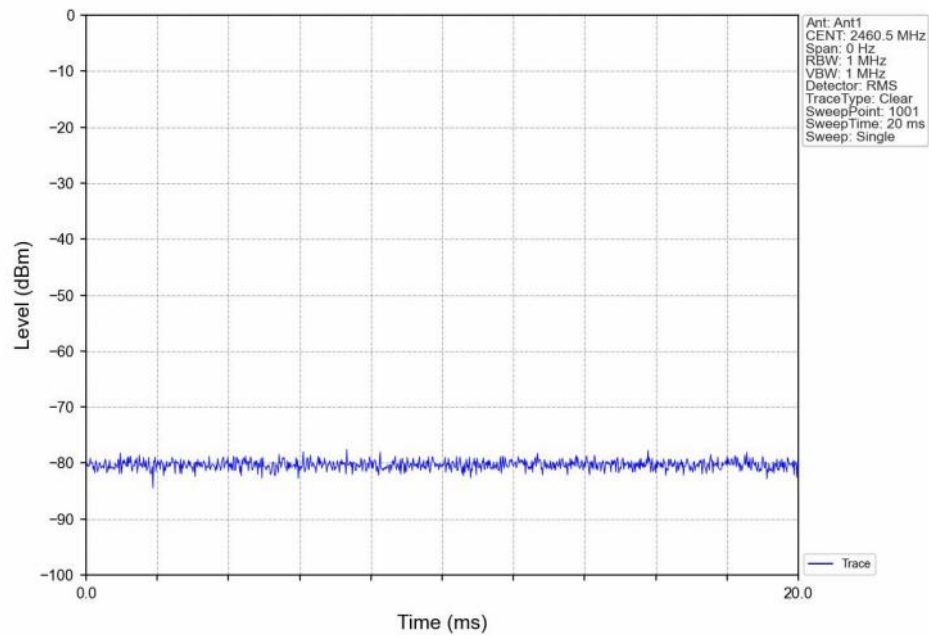


GFSK_DH5_2480MHz_Ant1_NTNV

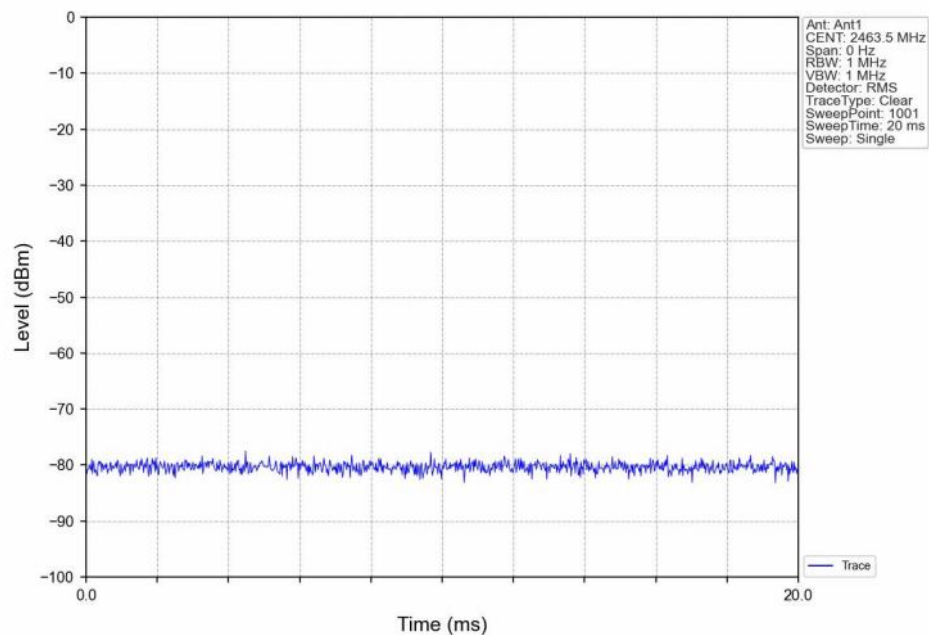


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.600	-76.95	/	-54	Pass
1000	12500	1	1	2460.500	-54.17	-80.26	-47	Pass
1000	12500	1	1	2463.500	-52.17	-80.29	-47	Pass

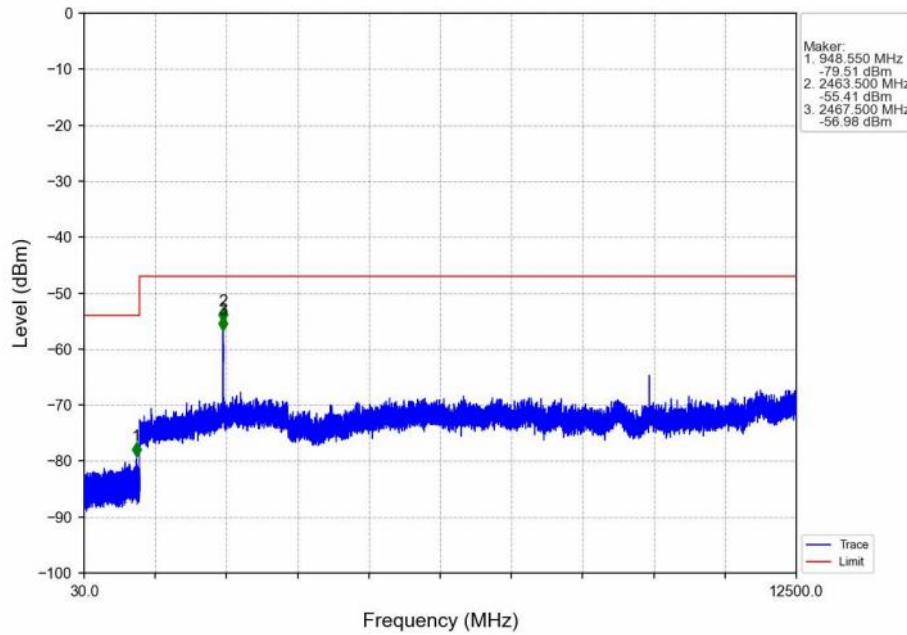
GFSK_DH5_2480MHz_Ant1_NTNV



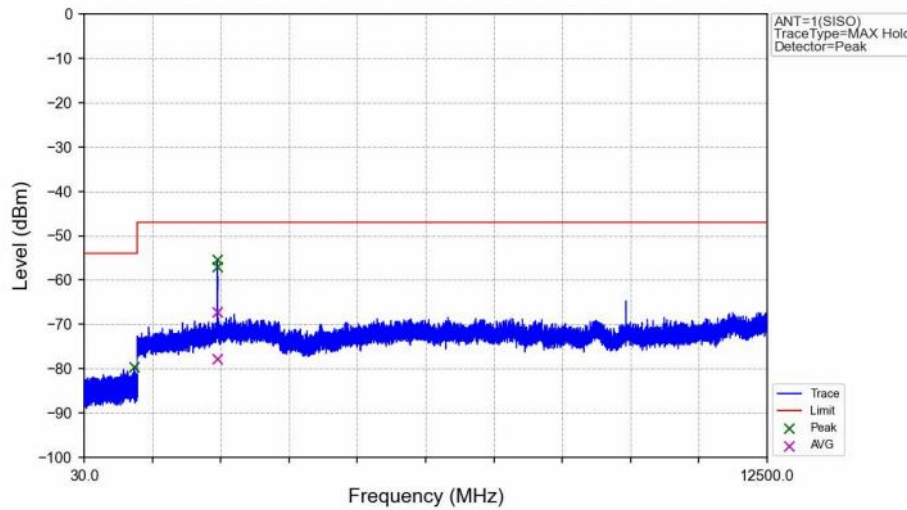
GFSK_DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

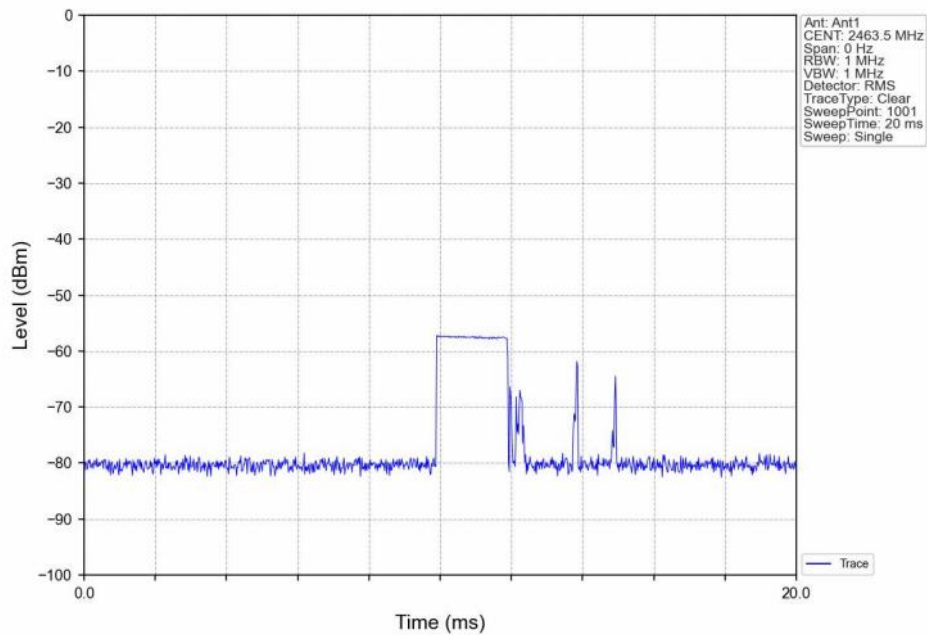


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

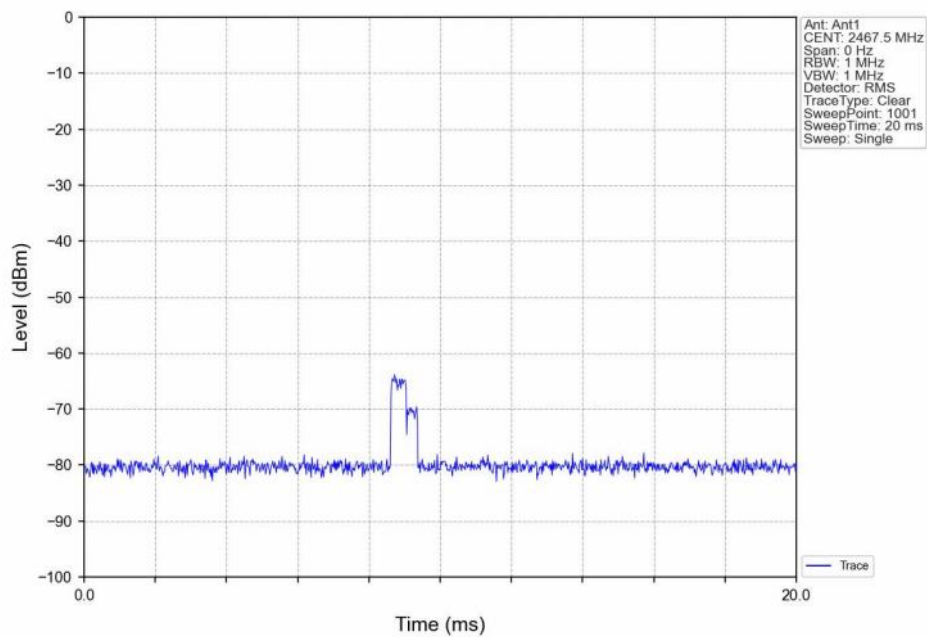


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.550	-79.51	/	-54	Pass
1000	12500	1	1	2463.500	-55.41	-67.23	-47	Pass
1000	12500	1	1	2467.500	-56.98	-77.69	-47	Pass

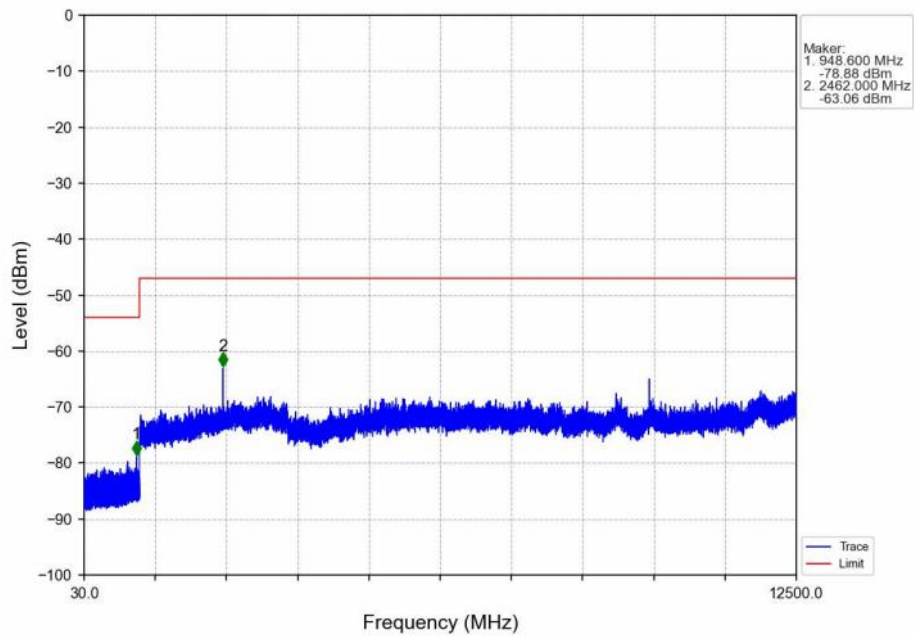
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



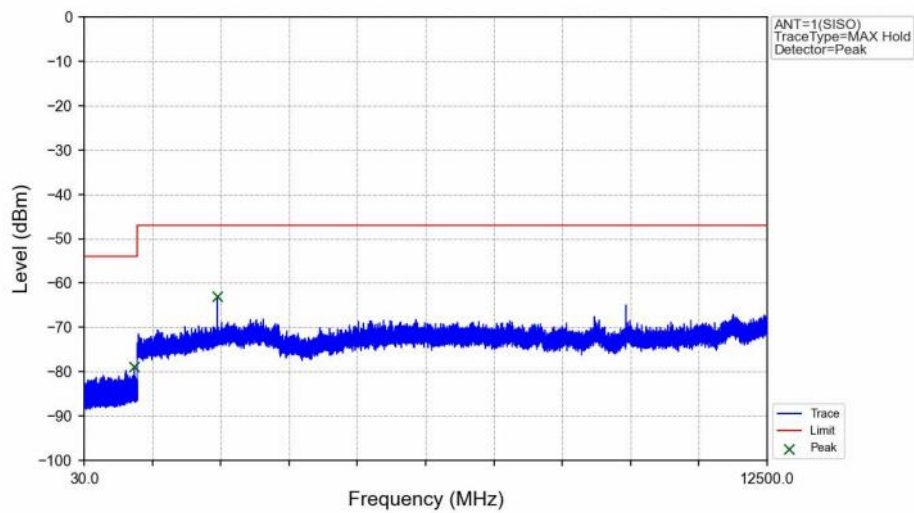
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

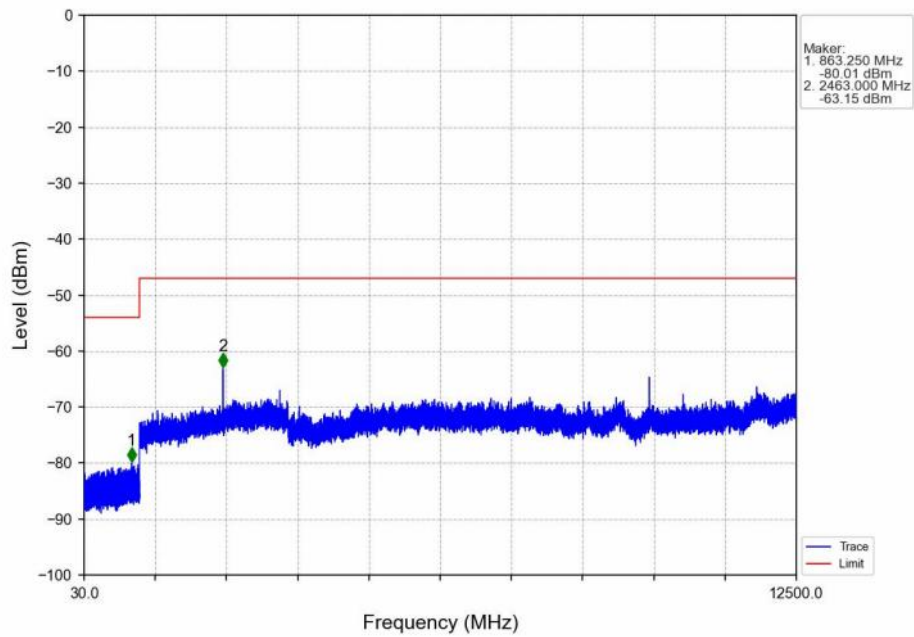


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

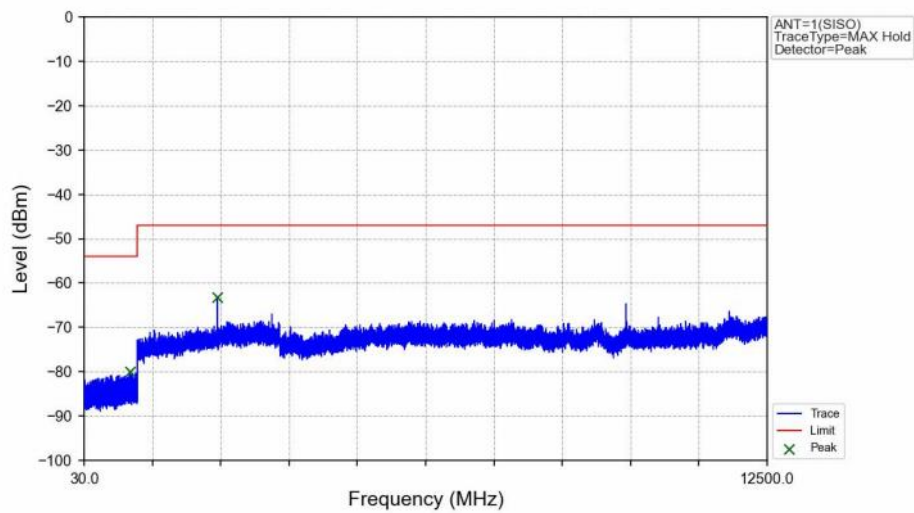


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.600	-78.88	/	-54	Pass
1000	12500	1	1	2462.000	-63.06	/	-47	Pass

8DPSK_3DH5_2402MHz_Ant1_NTNV

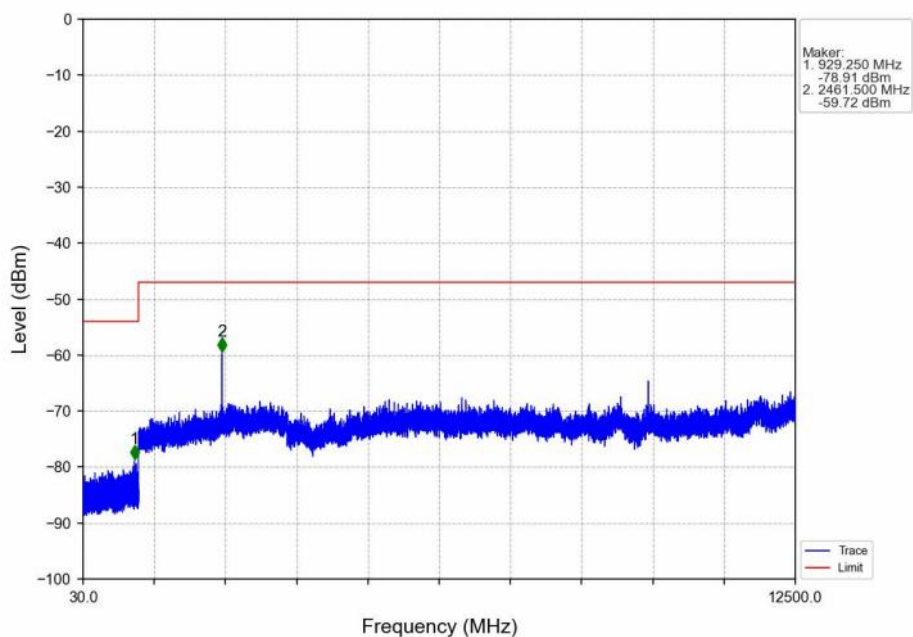


8DPSK_3DH5_2402MHz_Ant1_NTNV

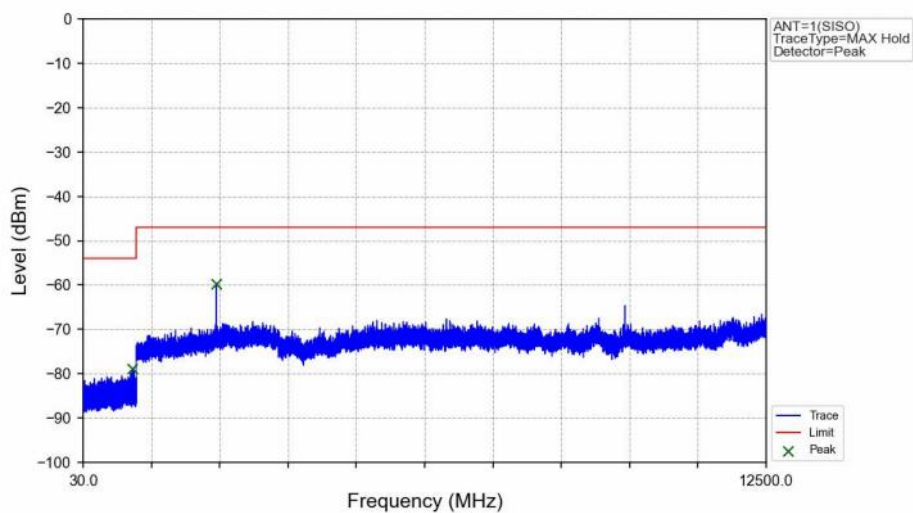


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	863.250	-80.01	/	-54	Pass
1000	12500	1	1	2463.000	-63.15	/	-47	Pass

8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	929.250	-78.91	/	-54	Pass
1000	12500	1	1	2461.500	-59.72	/	-47	Pass

BT-R:

1. Frequency Error

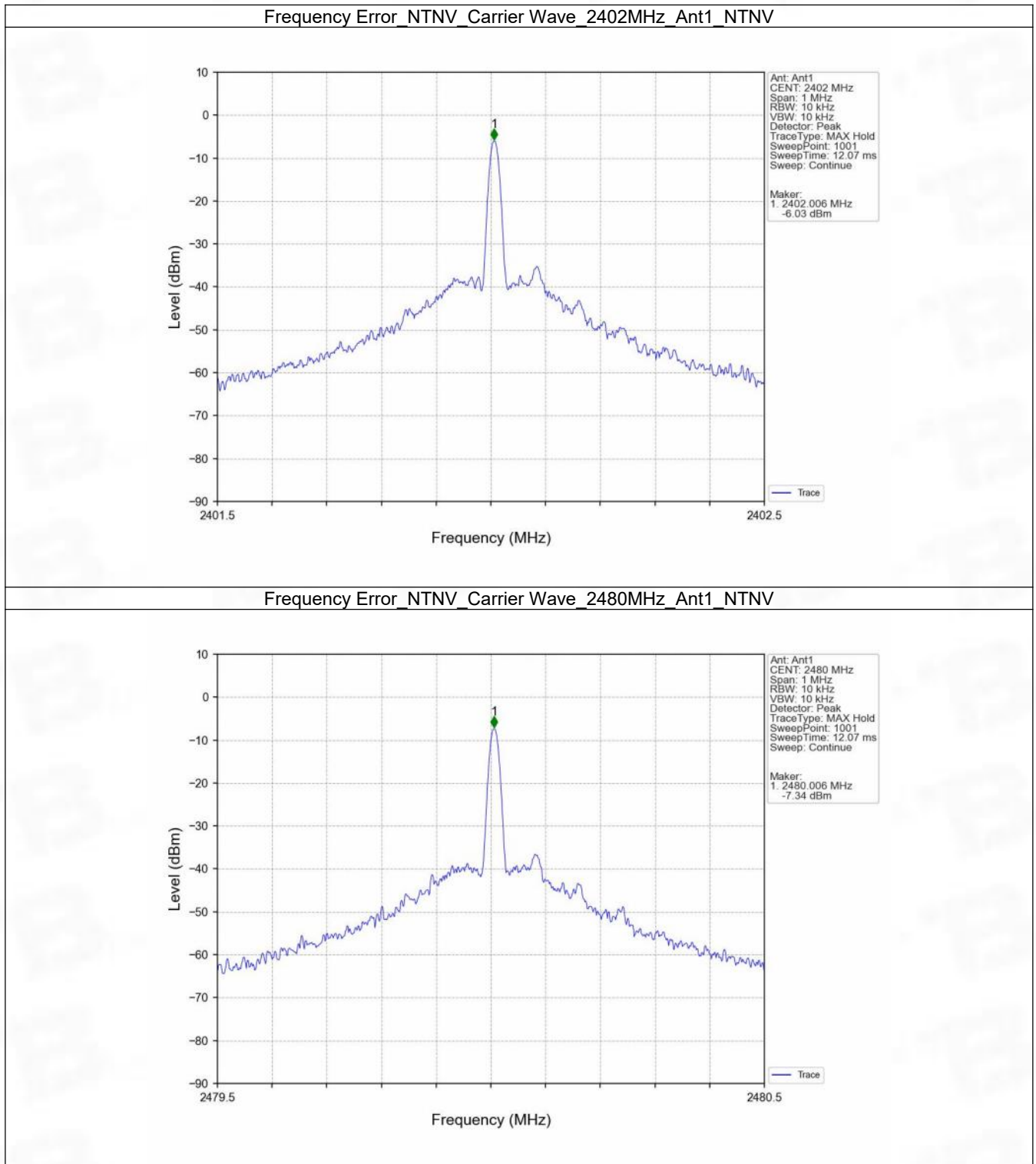
1.1 Test Result

1.1.1 Ant1

Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	Carrier Wave	SISO	2402	DH5	2402.006	2.50	-50 to 50	Pass
			2480	DH5	2480.006	2.42	-50 to 50	Pass

1.2 Test Graph

1.2.1 Ant1



2. Occupied Bandwidth

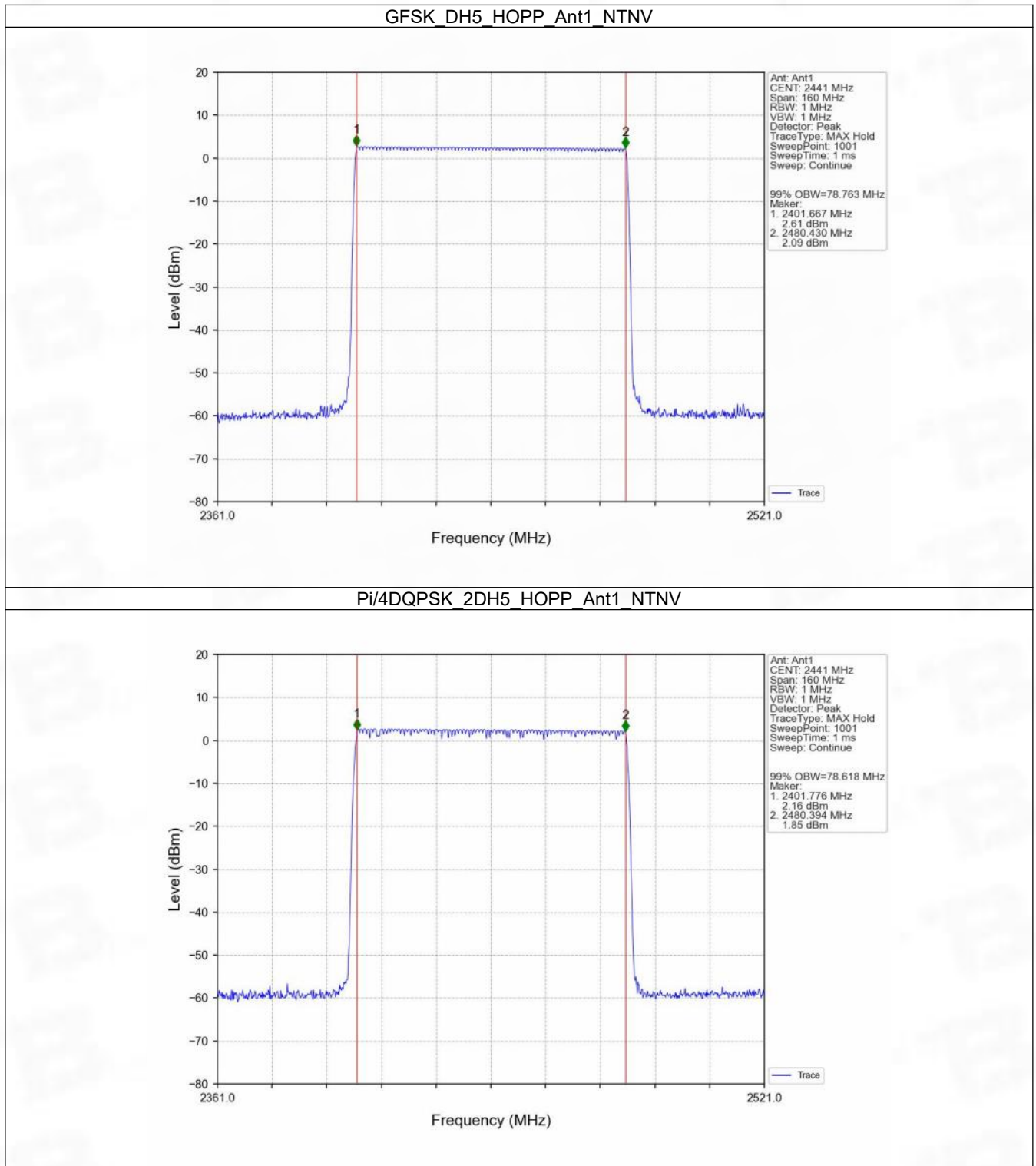
2.1 Test Result

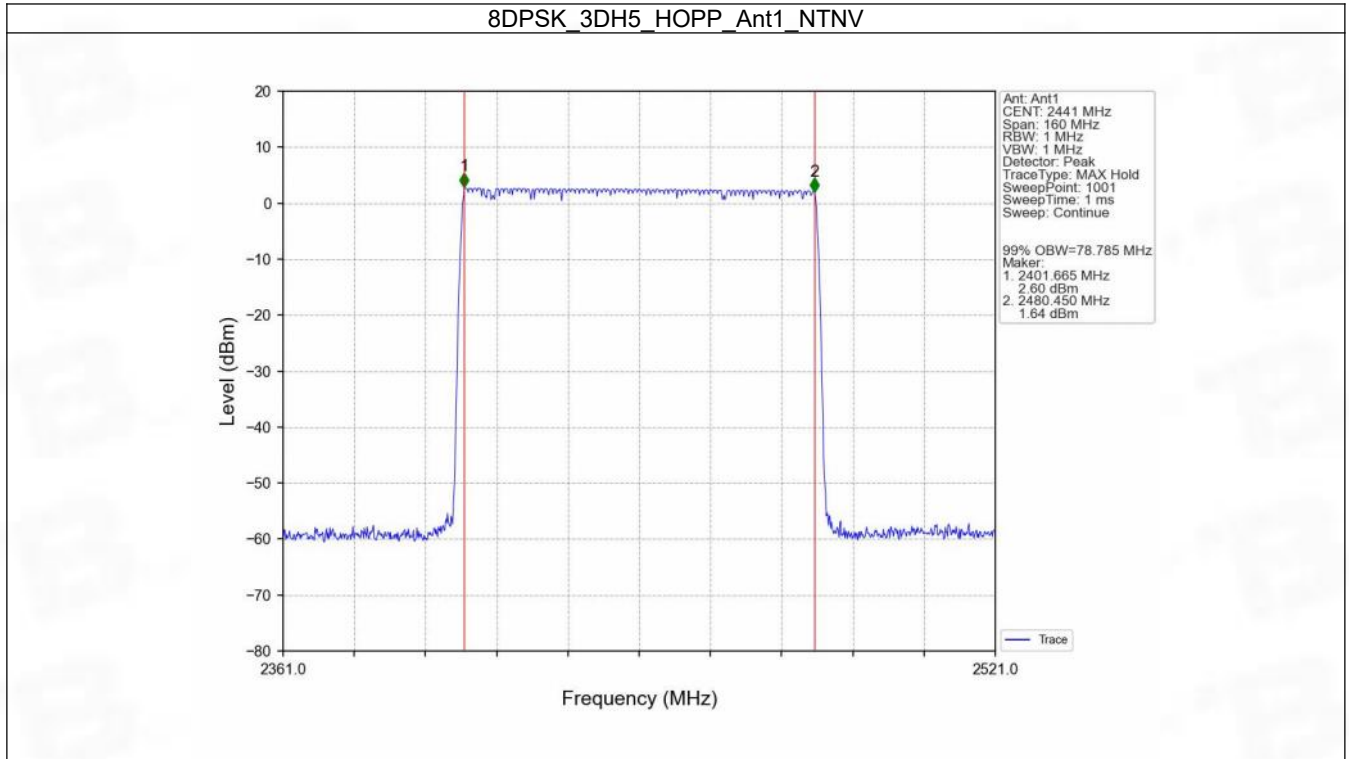
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.763	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.618	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.785	≤ 83.5	Pass

2.2 Test Graph

2.2.1 OBW





3. Spread Bandwidth

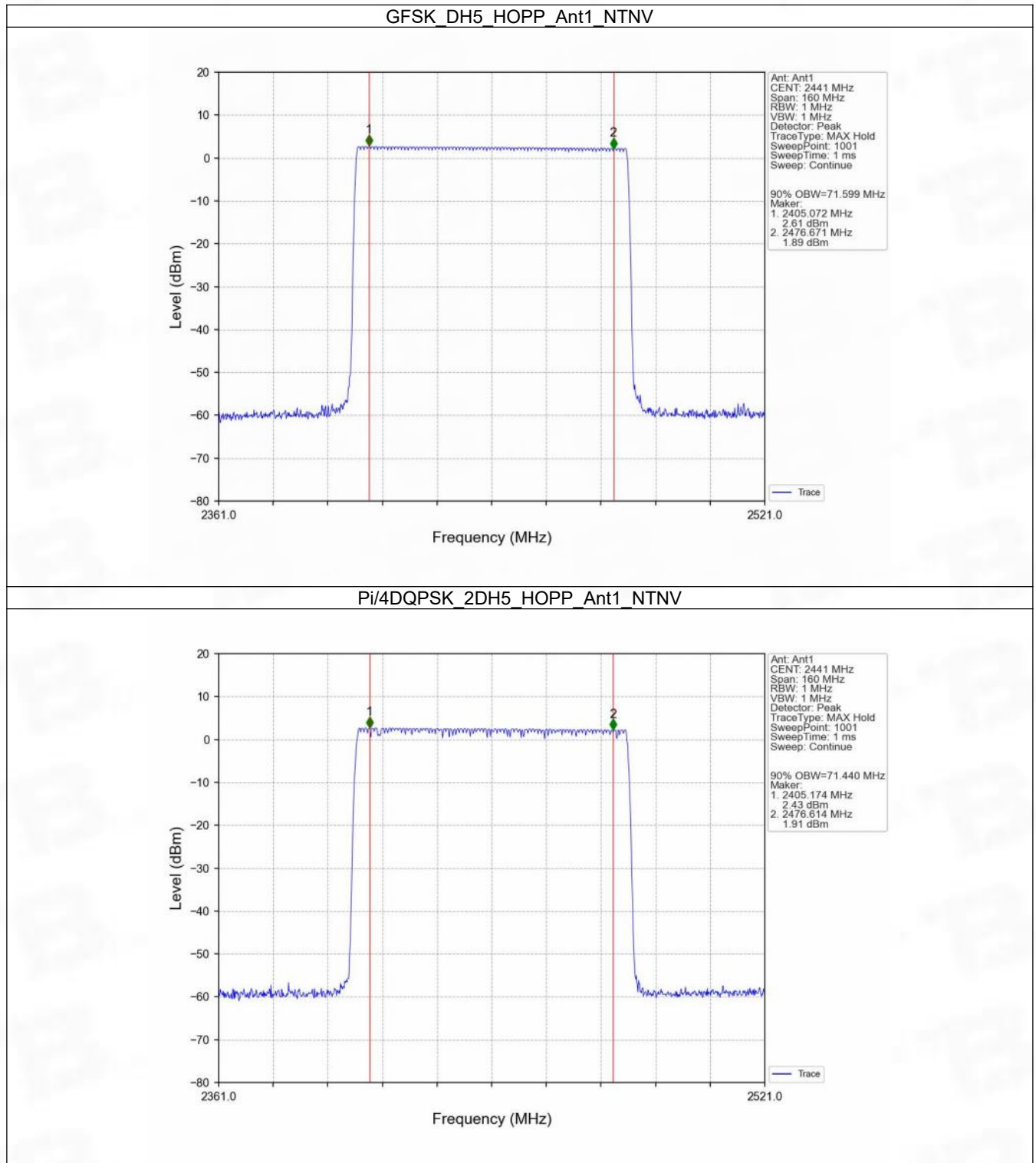
3.1 Test Result

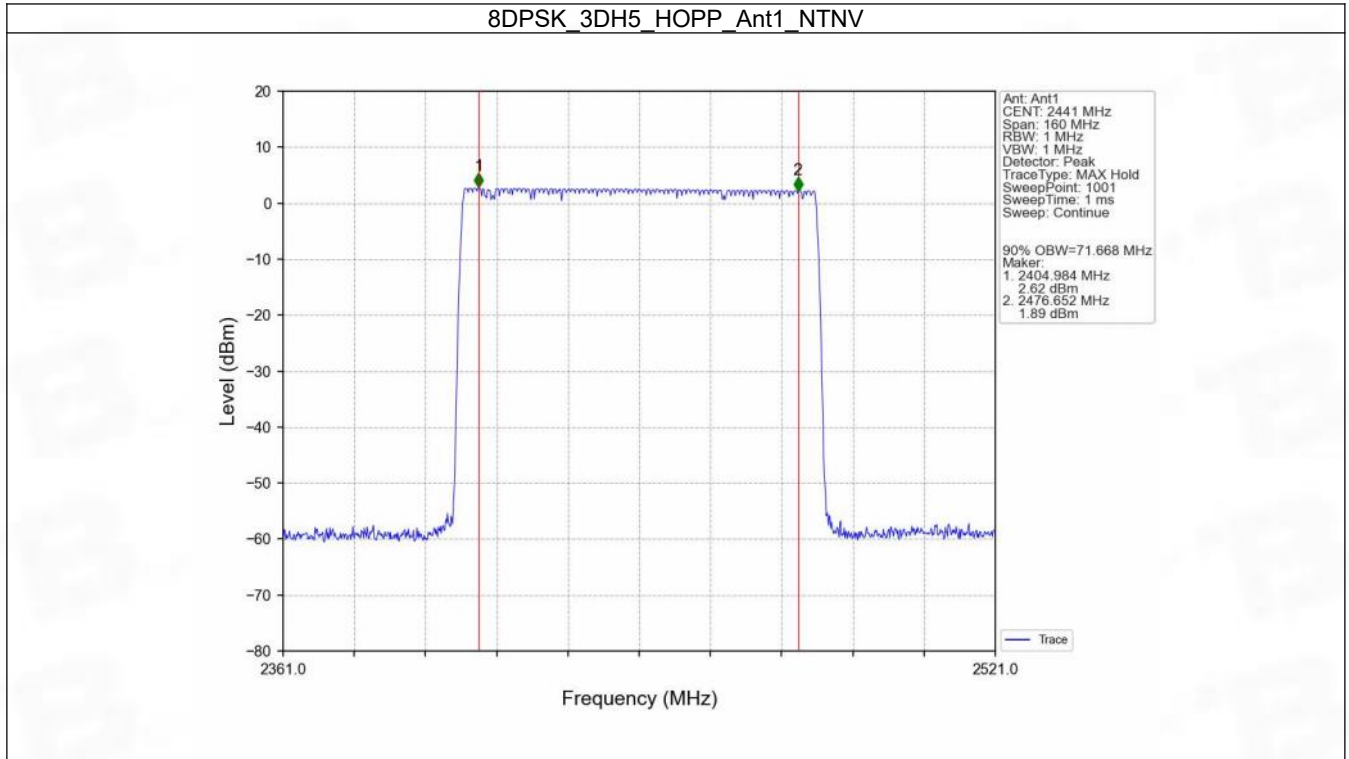
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.599	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.440	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.668	/	Only For Report

3.2 Test Graph

3.2.1 SPBW





4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Total power		Spread Bandwidth (MHz)
						dBm	mW	
NTNV	GFSK	SISO	HOPP	DH5	1	0.67	1.167	71.599
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-0.76	0.839	71.440
	8DPSK	SISO	HOPP	3DH5	1	0.04	1.009	71.668

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.016	<=3.00	0.014	14.29	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.012	<=3.00	0.014	-14.29	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.014	<=3.00	0.014	0.00	<=20	Pass

Note: Antenna power=Total power/Spread bandwidth.

4.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	Antenna Power (dBm/MHz)	EIRP (dBm/MHz)		Verdict
								Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.77	-17.96	-17.19	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.77	-19.21	-18.44	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.77	-18.54	-17.77	<=6.91	Pass

5. Dwell Time

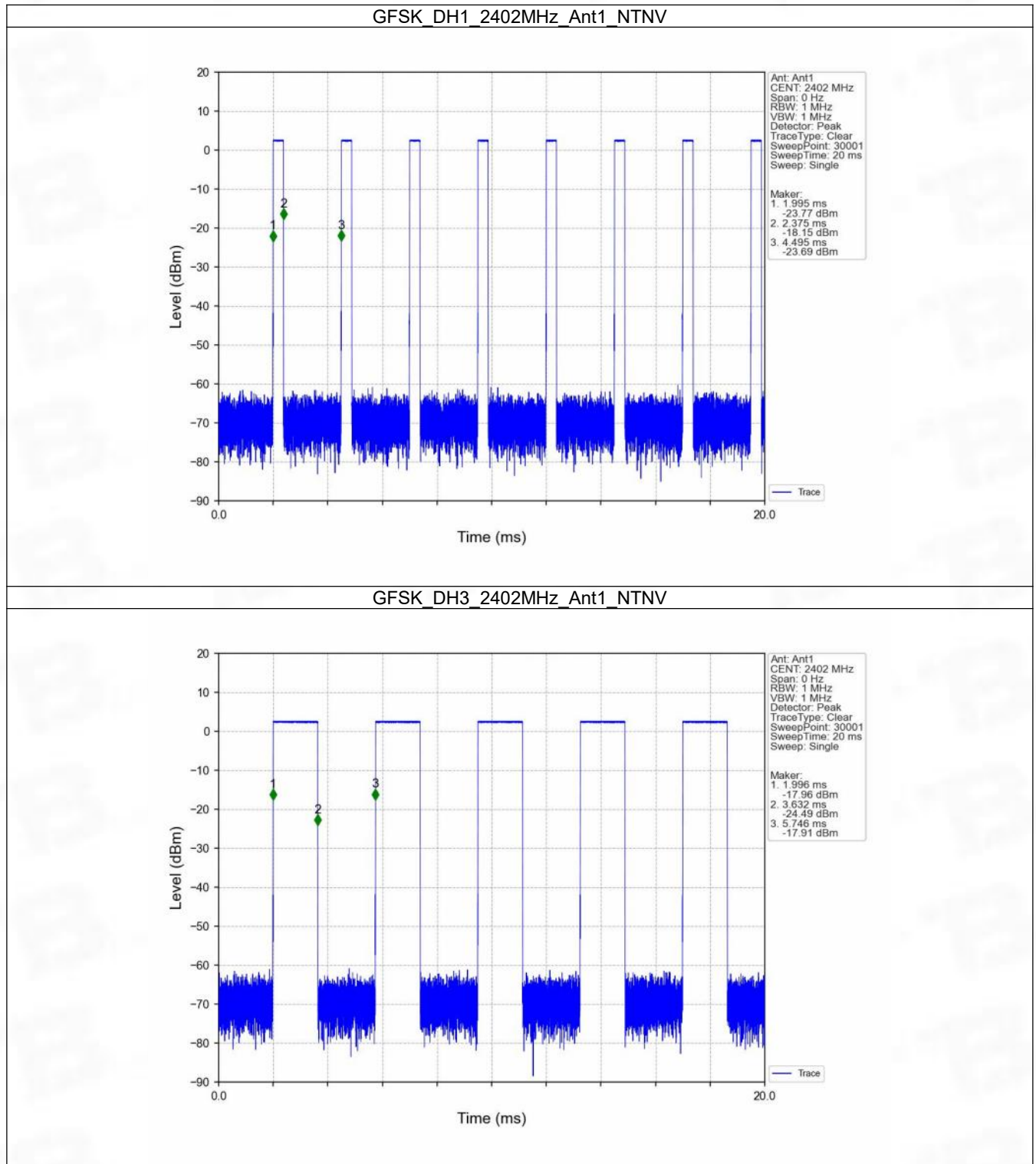
5.1 Test Result

5.1.1 Ant1

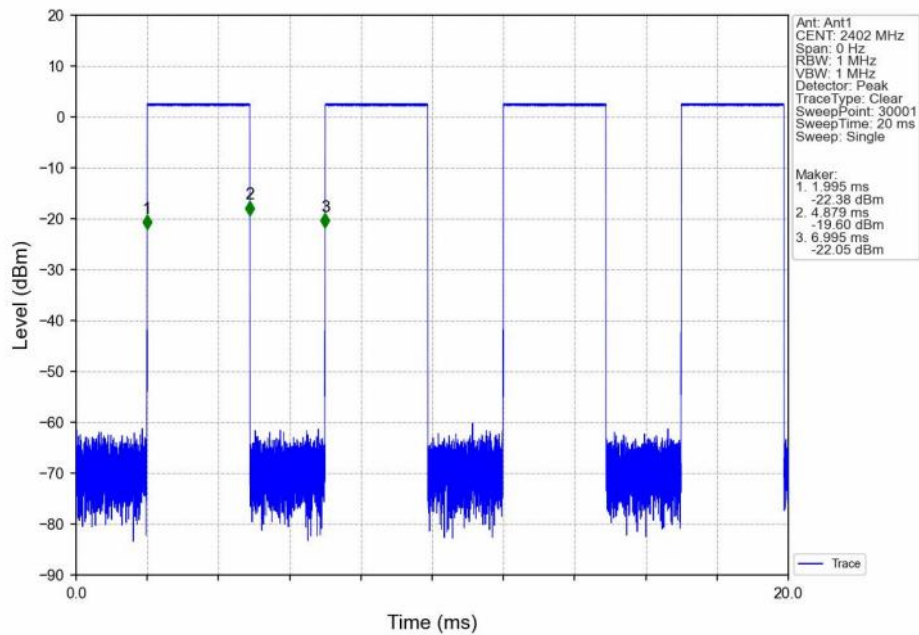
Ant1											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	71.599	0.380	2.500	79	55.104	<=400	Pass
				DH3	71.599	1.636	3.750	79	158.158	<=400	Pass
				DH5	71.599	2.884	5.000	79	209.105	<=400	Pass
			2480	DH1	71.599	0.380	2.500	79	55.104	<=400	Pass
				DH3	71.599	1.636	3.750	79	158.158	<=400	Pass
				DH5	71.599	2.884	5.000	79	209.105	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.440	0.390	2.500	79	56.429	<=400	Pass
				2DH3	71.440	1.642	3.750	79	158.386	<=400	Pass
				2DH5	71.440	2.890	5.000	79	209.075	<=400	Pass
			2480	2DH1	71.440	0.390	2.500	79	56.429	<=400	Pass
				2DH3	71.440	1.642	3.750	79	158.386	<=400	Pass
				2DH5	71.440	2.889	5.000	79	209.003	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.668	0.390	2.500	79	56.609	<=400	Pass
				3DH3	71.668	1.639	3.749	79	158.643	<=400	Pass
				3DH5	71.668	2.891	5.000	79	209.815	<=400	Pass
			2480	3DH1	71.668	0.390	2.500	79	56.609	<=400	Pass
				3DH3	71.668	1.639	3.750	79	158.601	<=400	Pass
				3DH5	71.668	2.890	5.000	79	209.742	<=400	Pass

5.2 Test Graph

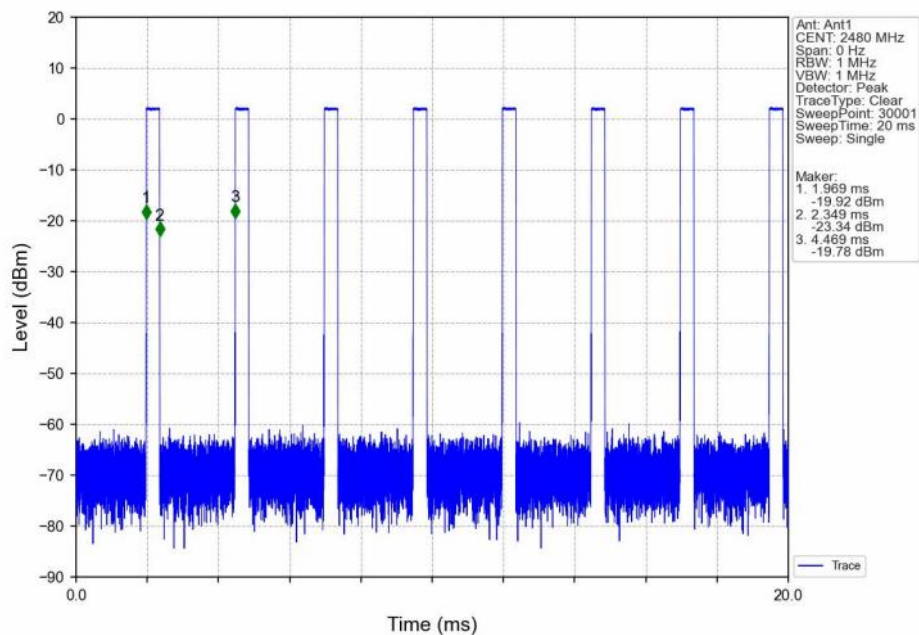
5.2.1 Ant1



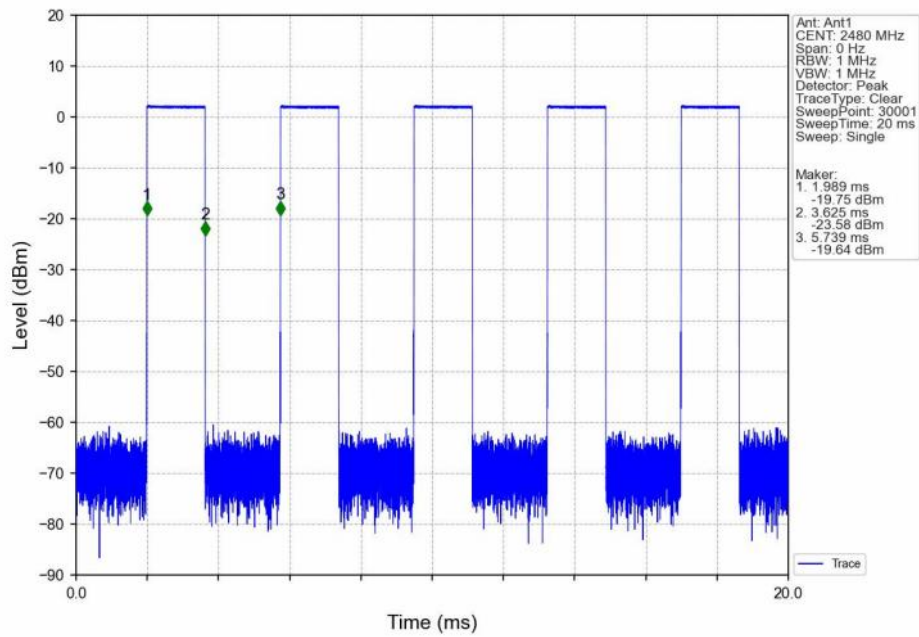
GFSK_DH5_2402MHz_Ant1_NTNV



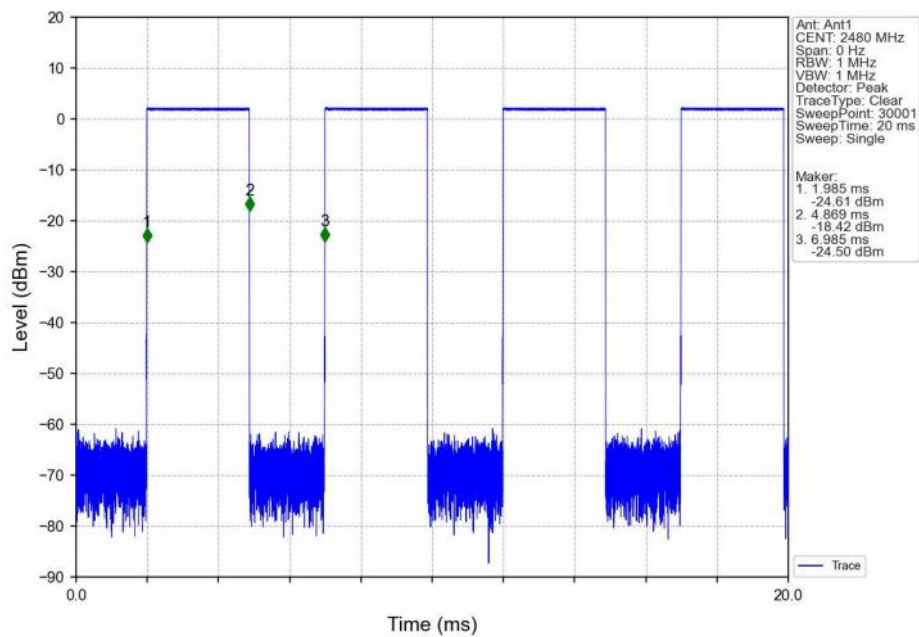
GFSK_DH1_2480MHz_Ant1_NTNV



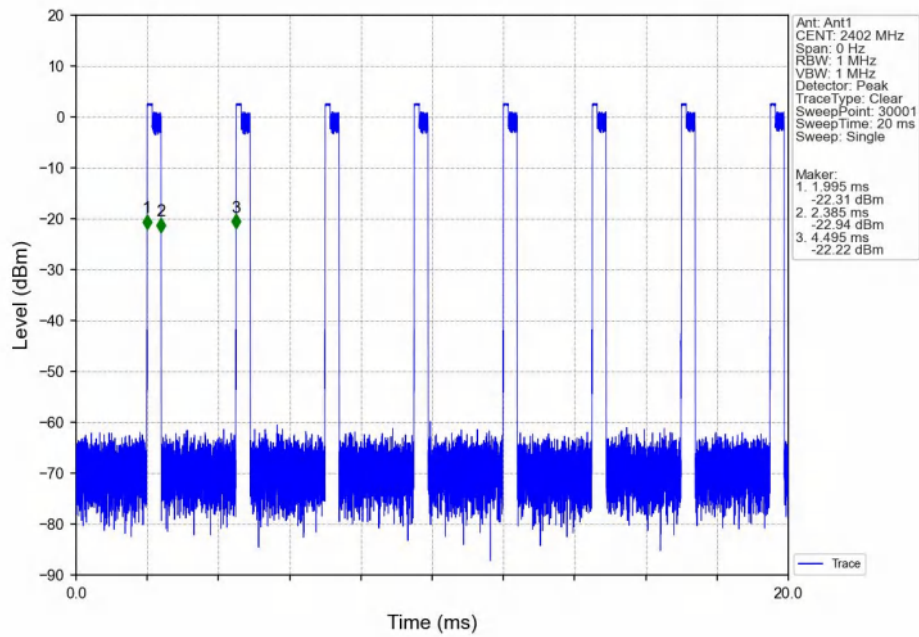
GFSK_DH3_2480MHz_Ant1_NTNV



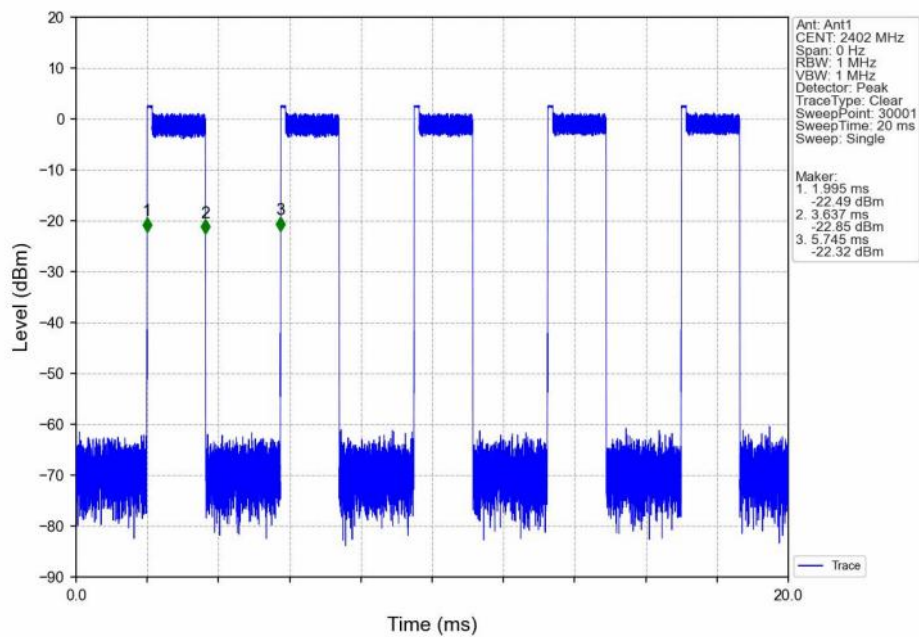
GFSK_DH5_2480MHz_Ant1_NTNV



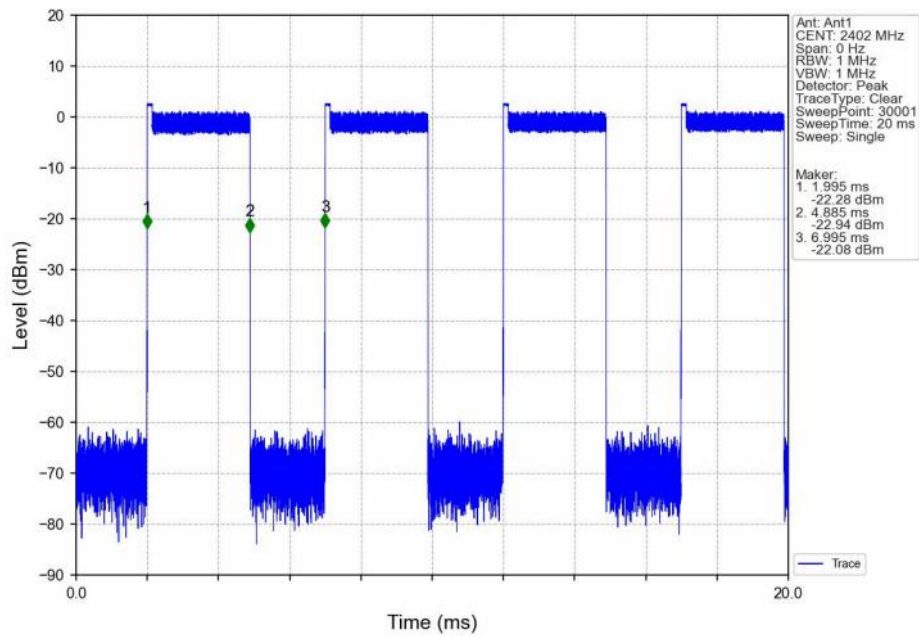
Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



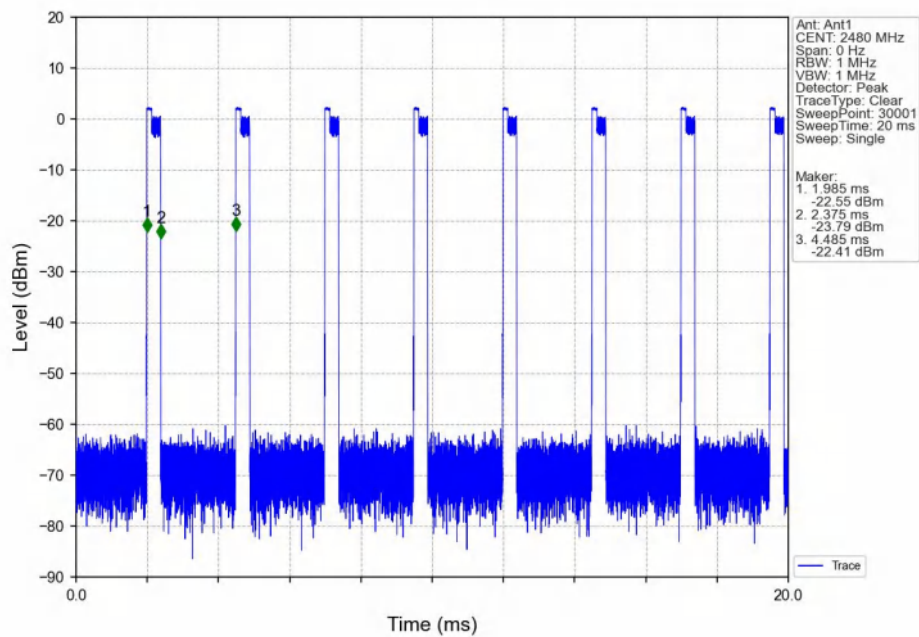
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTNV



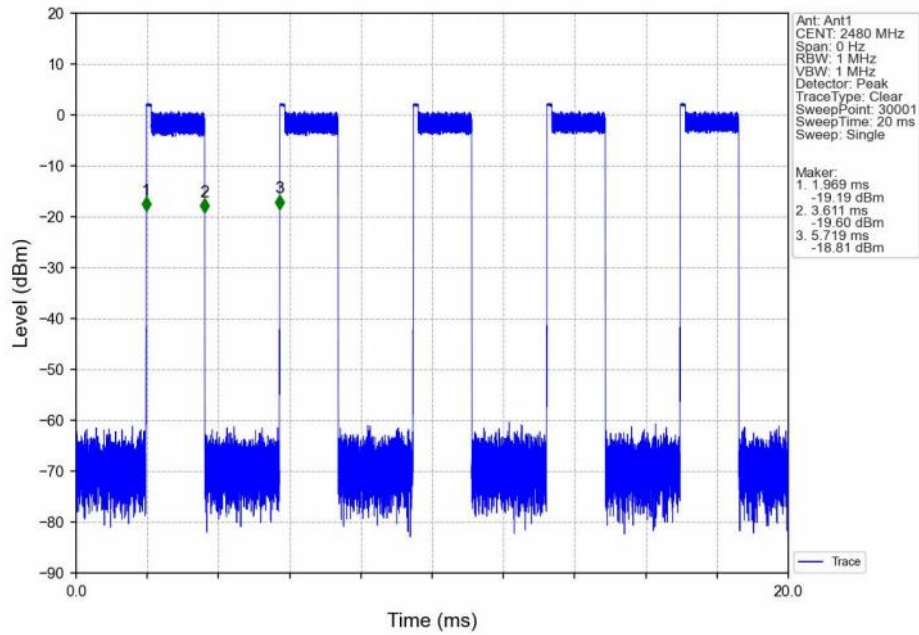
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



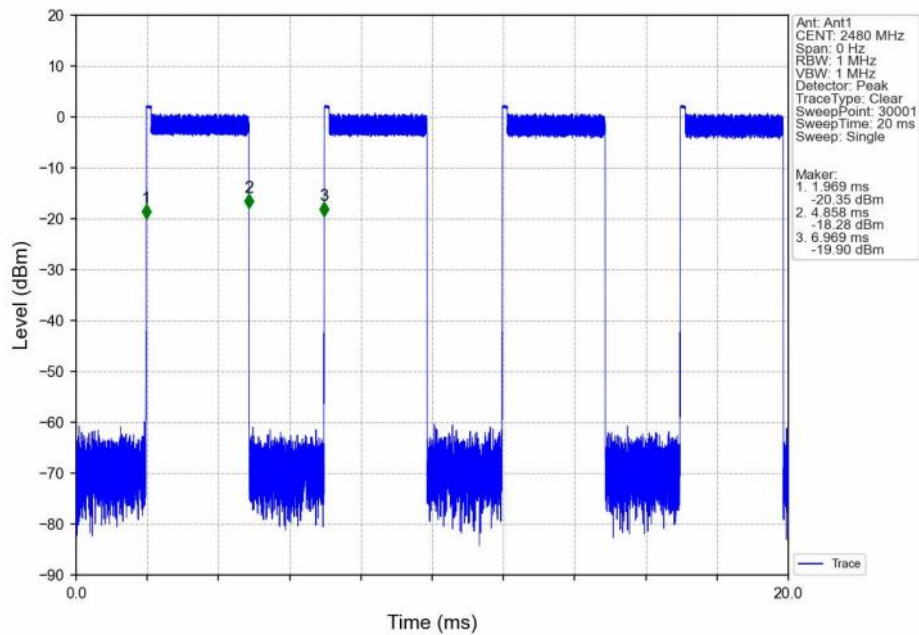
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



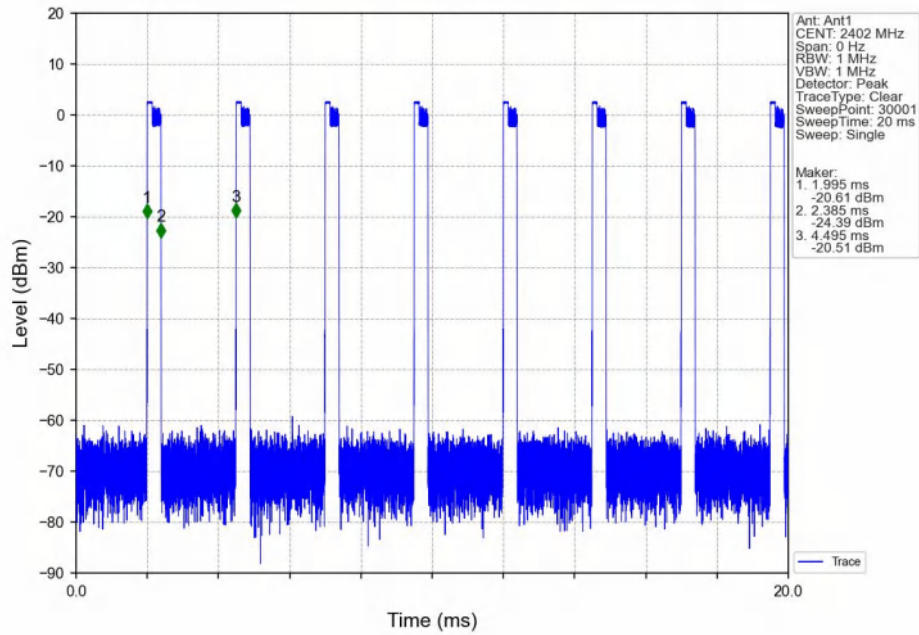
Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



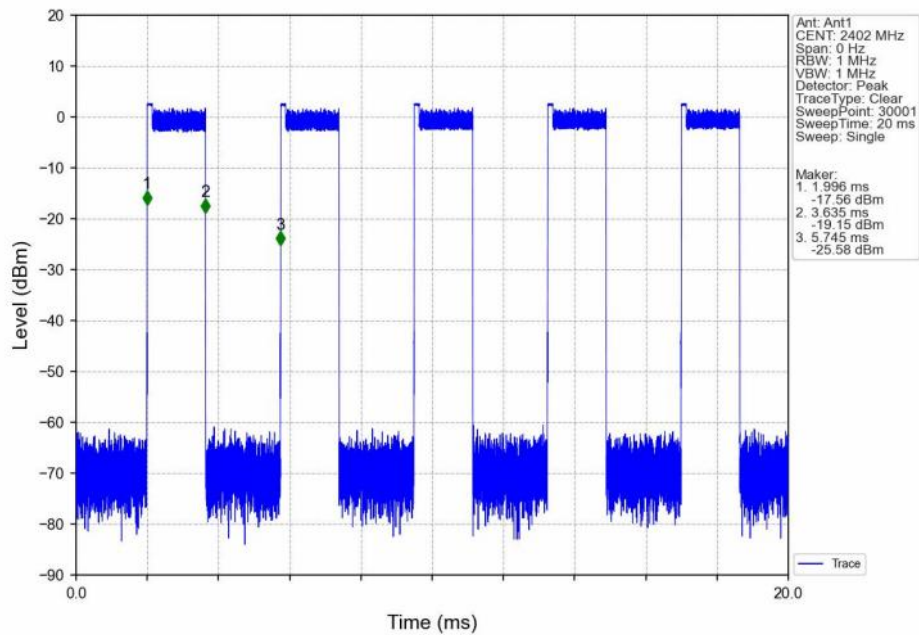
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



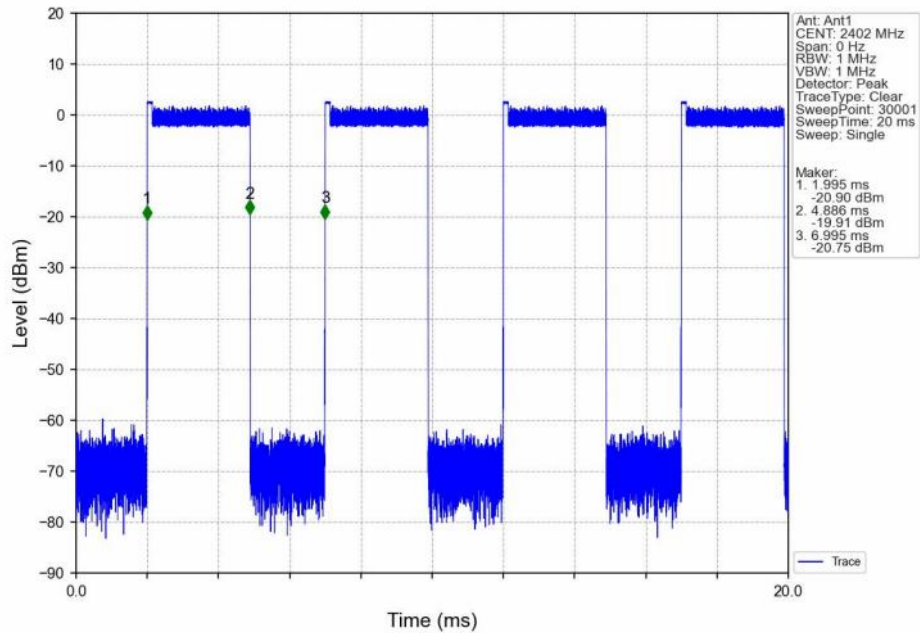
8DPSK_3DH1_2402MHz_Ant1_NTNV



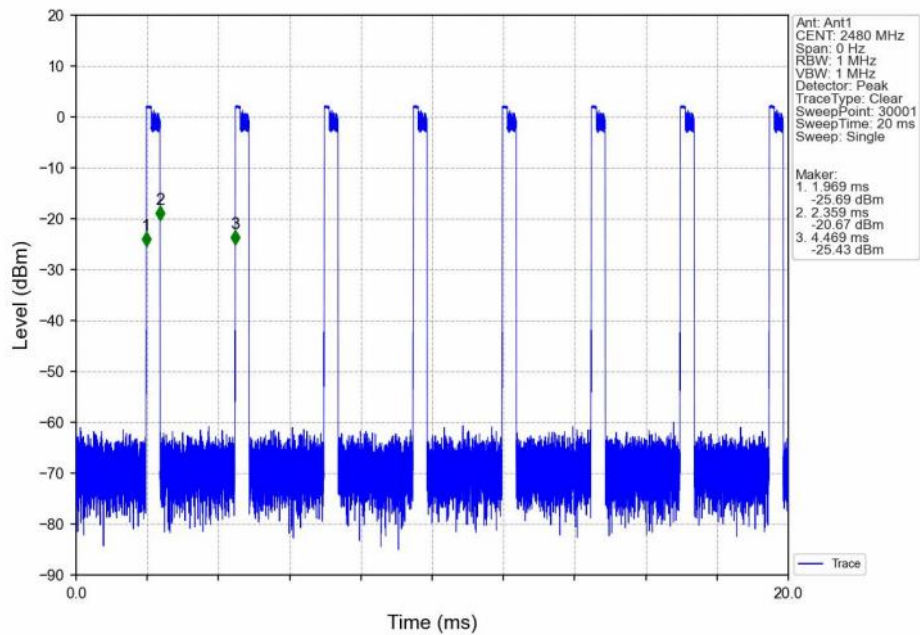
8DPSK_3DH3_2402MHz_Ant1_NTNV



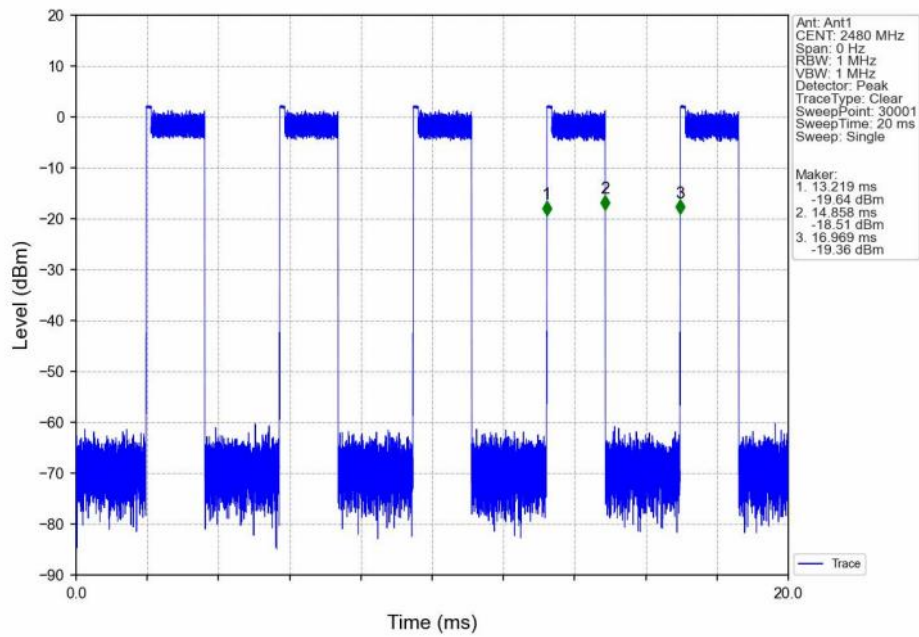
8DPSK_3DH5_2402MHz_Ant1_NTNV



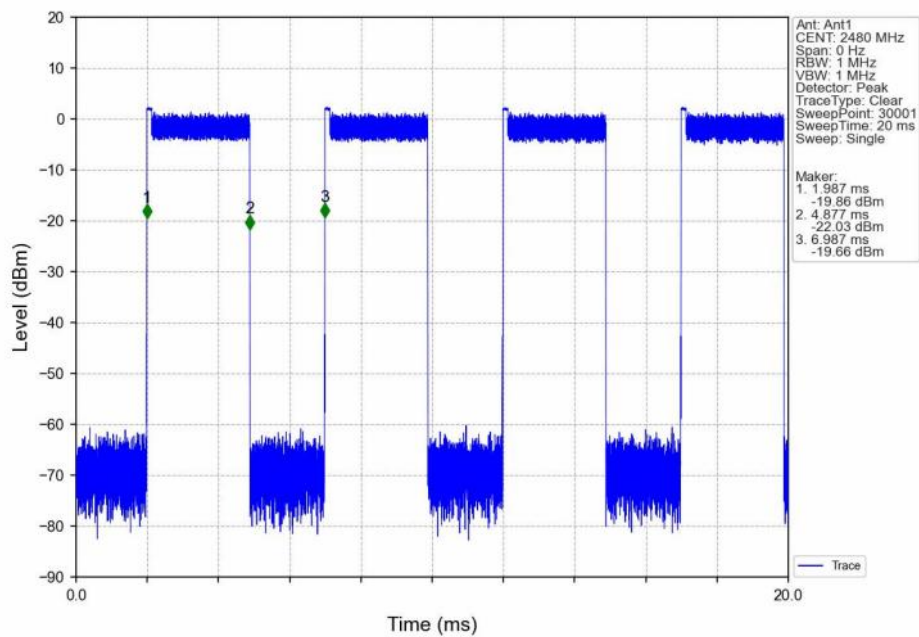
8DPSK_3DH1_2480MHz_Ant1_NTNV



8DPSK_3DH3_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



6. Spurious Emission Intensity

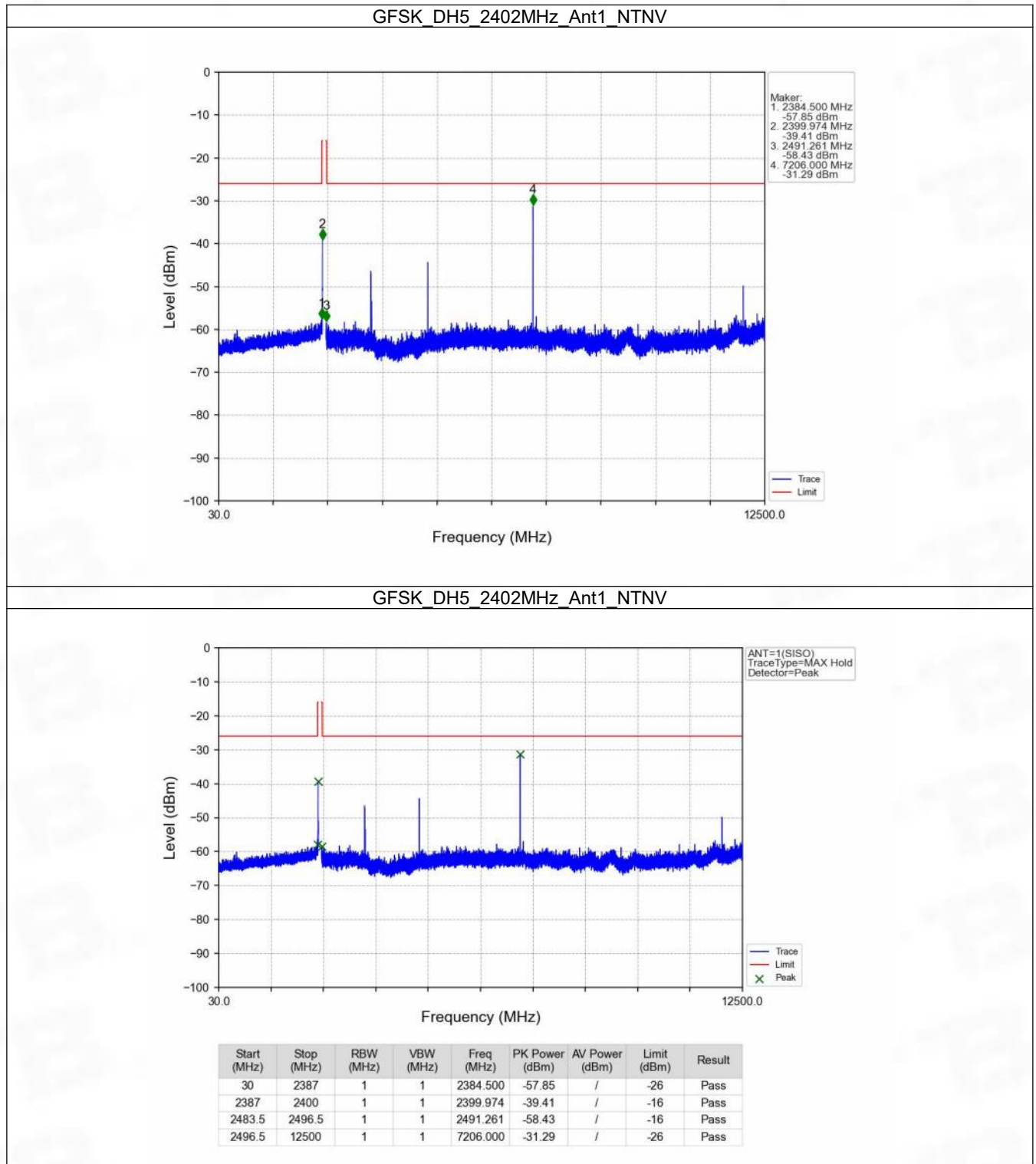
6.1 Test Result

6.1.1 TxSe_NTNV

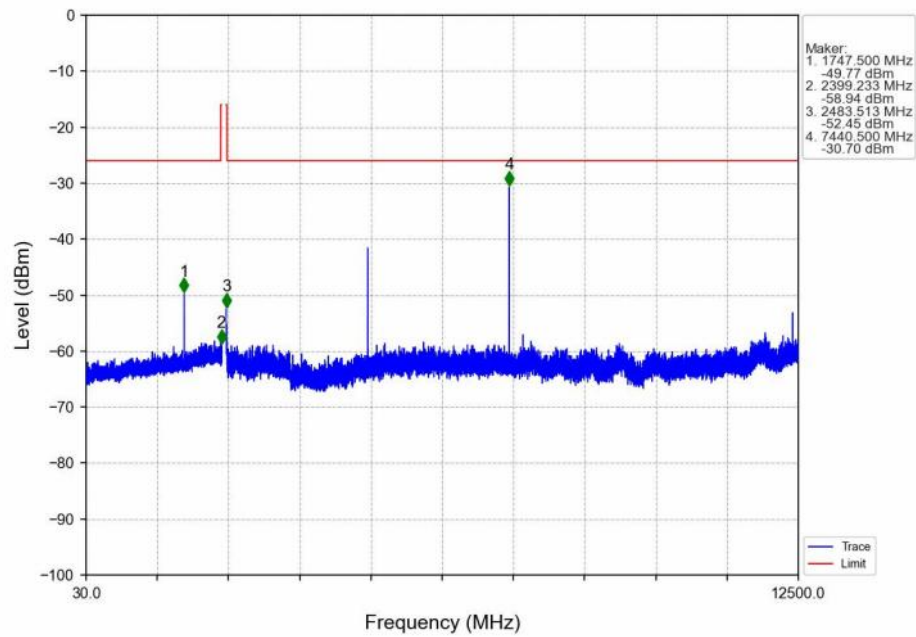
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2384.5	-57.85	0.002	/	/	2.5	Pass
				2387	2400	2399.974	-39.41	0.115	/	/	25	Pass
				2483.5	2496.5	2491.261	-58.43	0.001	/	/	25	Pass
				2496.5	12500	7206	-31.29	0.743	/	/	2.5	Pass
		2480	1	30	2387	1747.5	-49.77	0.011	/	/	2.5	Pass
				2387	2400	2399.233	-58.94	0.001	/	/	25	Pass
				2483.5	2496.5	2483.513	-52.45	0.006	/	/	25	Pass
				2496.5	12500	7440.5	-30.70	0.851	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2385	-57.97	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-31.24	0.752	/	/	25	Pass
				2483.5	2496.5	2490.234	-58.67	0.001	/	/	25	Pass
				2496.5	12500	7206	-32.65	0.543	/	/	2.5	Pass
		2480	1	30	2387	2384.5	-58.39	0.001	/	/	2.5	Pass
				2387	2400	2391.888	-59.14	0.001	/	/	25	Pass
				2483.5	2496.5	2484.02	-54.04	0.004	/	/	25	Pass
				2496.5	12500	7440.5	-32.41	0.574	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2383	-57.89	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-31.89	0.647	/	/	25	Pass
				2483.5	2496.5	2491.677	-58.85	0.001	/	/	25	Pass
				2496.5	12500	7206	-32.12	0.614	/	/	2.5	Pass
		2480	1	30	2387	2385	-58.44	0.001	/	/	2.5	Pass
				2387	2400	2393.968	-58.46	0.001	/	/	25	Pass
				2483.5	2496.5	2483.591	-53.41	0.005	/	/	25	Pass
				2496.5	12500	7440.5	-33.60	0.437	/	/	2.5	Pass

6.2 Test Graph

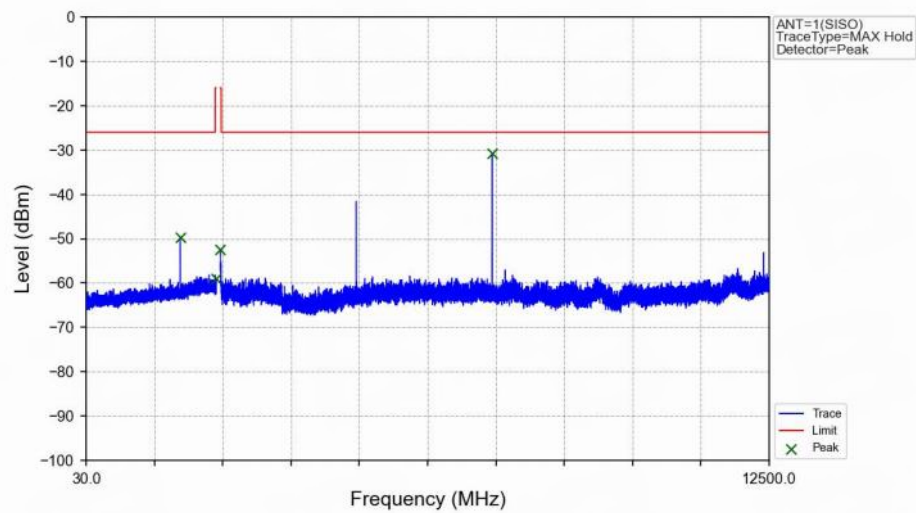
6.2.1 TxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

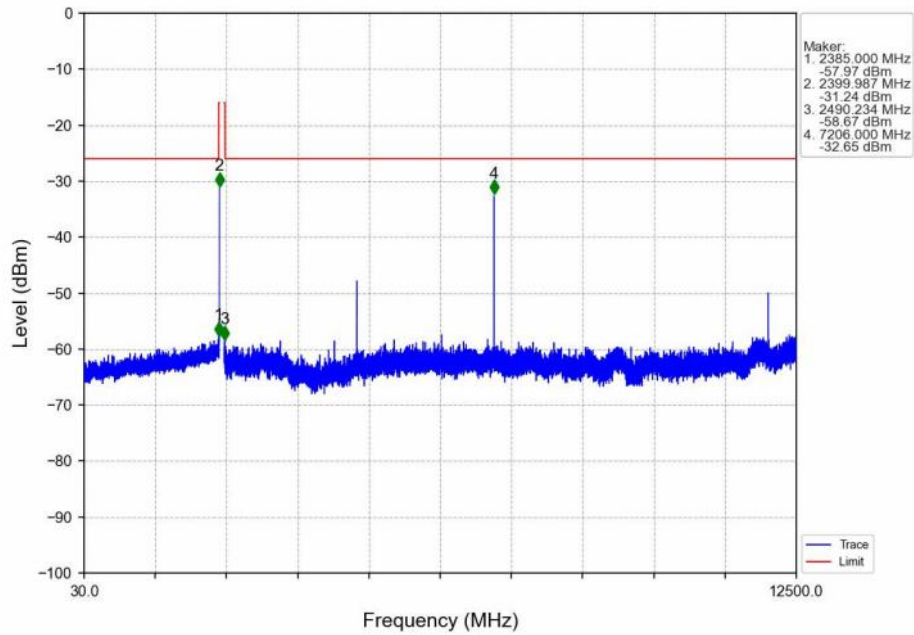


GFSK_DH5_2480MHz_Ant1_NTNV

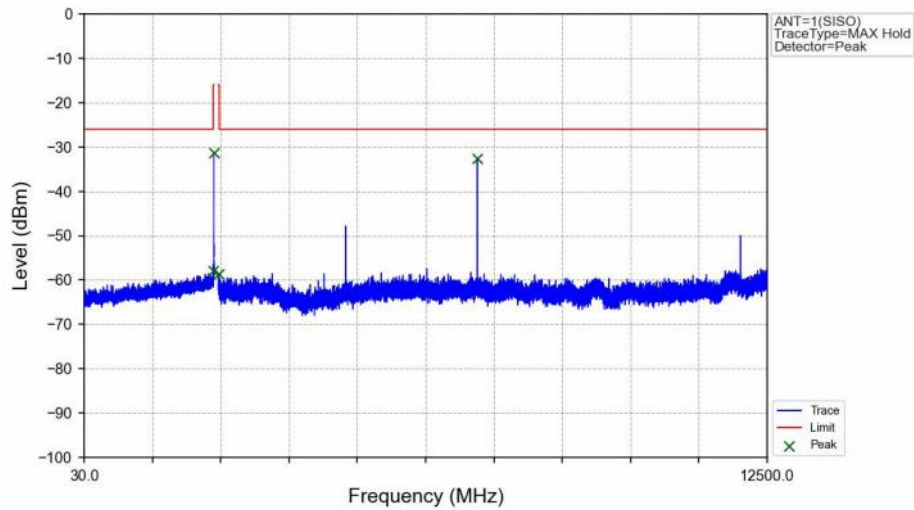


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1747.500	-49.77	/	-26	Pass
2387	2400	1	1	2399.233	-58.94	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-52.45	/	-16	Pass
2496.5	12500	1	1	7440.500	-30.70	/	-26	Pass

Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

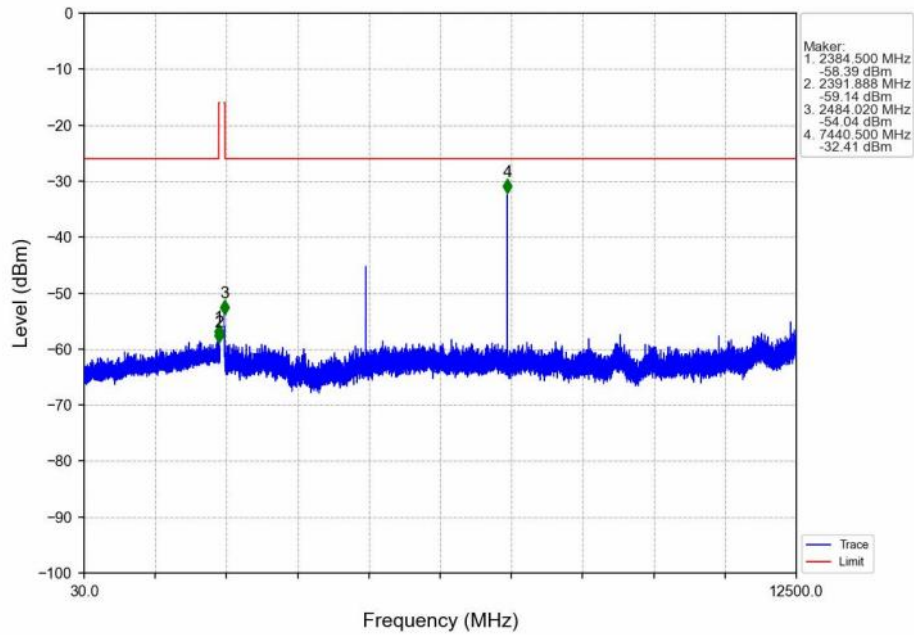


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

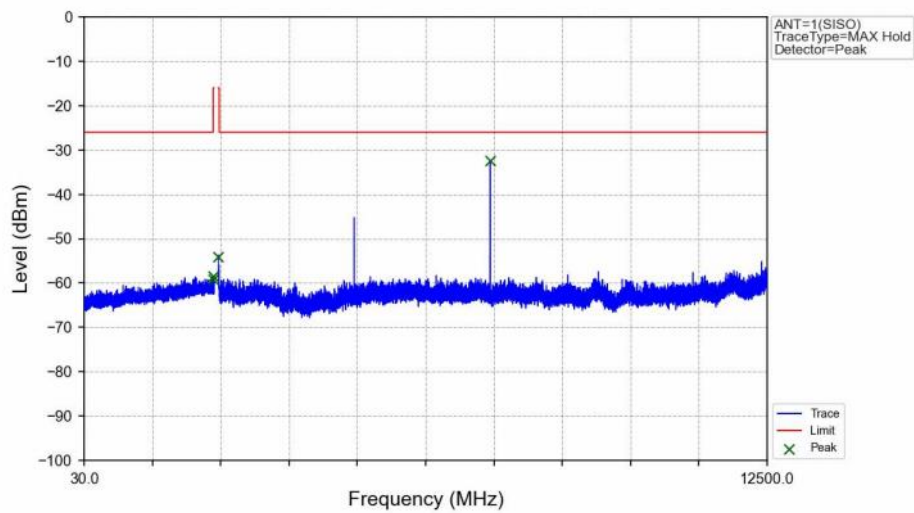


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.000	-57.97	/	-26	Pass
2387	2400	1	1	2399.987	-31.24	/	-16	Pass
2483.5	2496.5	1	1	2490.234	-58.67	/	-16	Pass
2496.5	12500	1	1	7206.000	-32.65	/	-26	Pass

Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

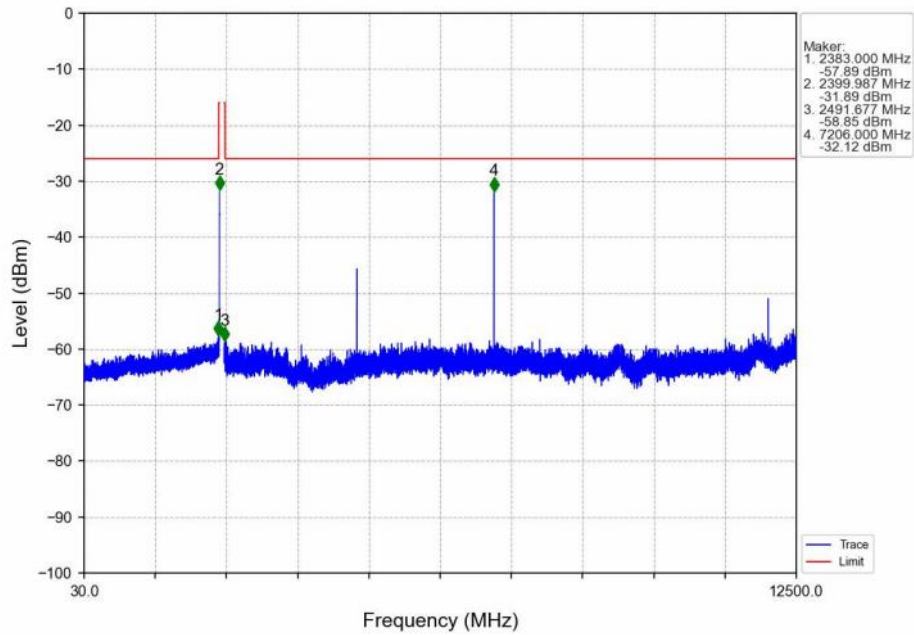


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

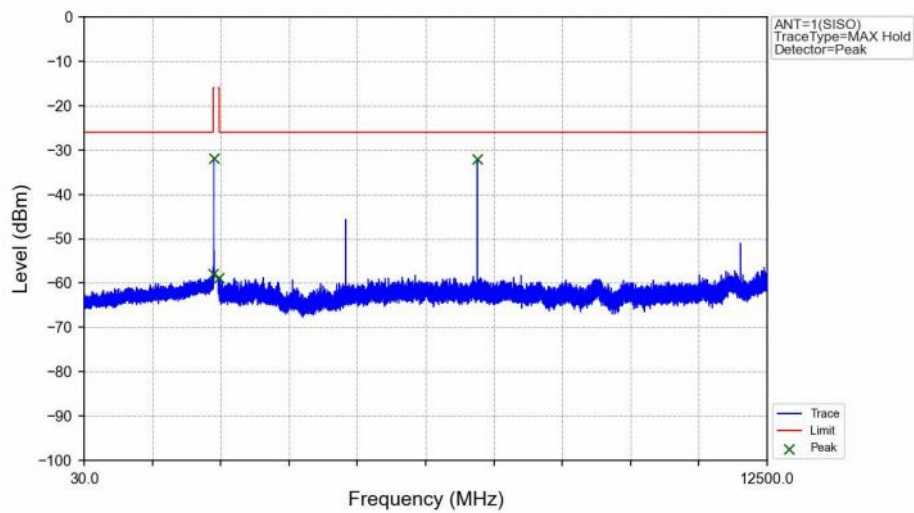


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2384.500	-58.39	/	-26	Pass
2387	2400	1	1	2391.888	-59.14	/	-16	Pass
2483.5	2496.5	1	1	2484.020	-54.04	/	-16	Pass
2496.5	12500	1	1	7440.500	-32.41	/	-26	Pass

8DPSK_3DH5_2402MHz_Ant1_NTNV

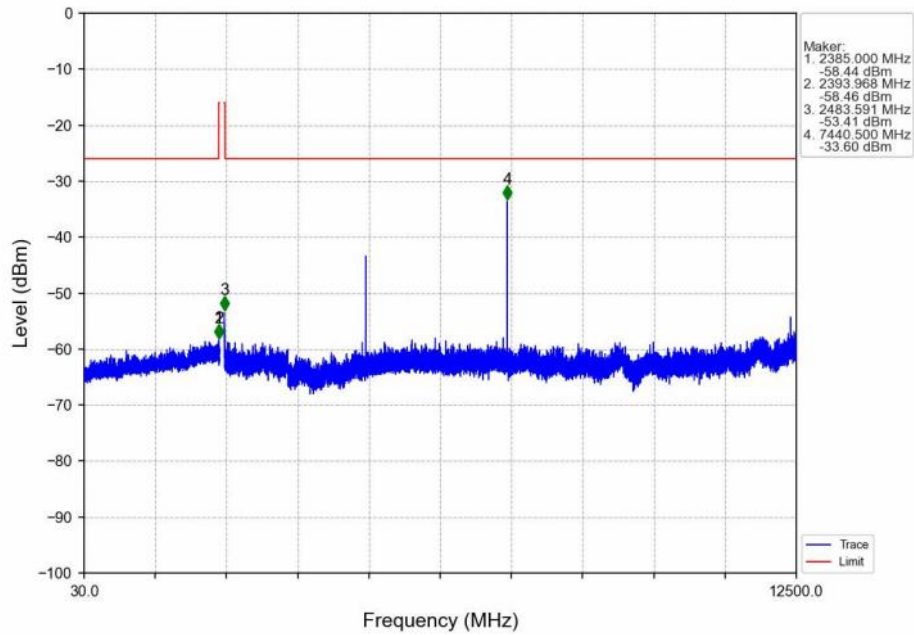


8DPSK_3DH5_2402MHz_Ant1_NTNV

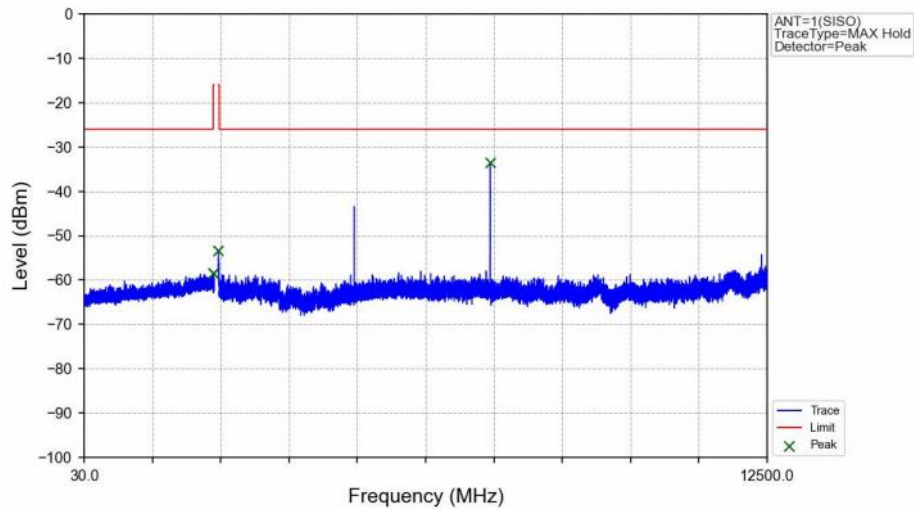


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2383.000	-57.89	/	-26	Pass
2387	2400	1	1	2399.987	-31.89	/	-16	Pass
2483.5	2496.5	1	1	2491.677	-58.85	/	-16	Pass
2496.5	12500	1	1	7206.000	-32.12	/	-26	Pass

8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.000	-58.44	/	-26	Pass
2387	2400	1	1	2393.968	-58.46	/	-16	Pass
2483.5	2496.5	1	1	2483.591	-53.41	/	-16	Pass
2496.5	12500	1	1	7440.500	-33.60	/	-26	Pass

7. Secondary Radiated Emission

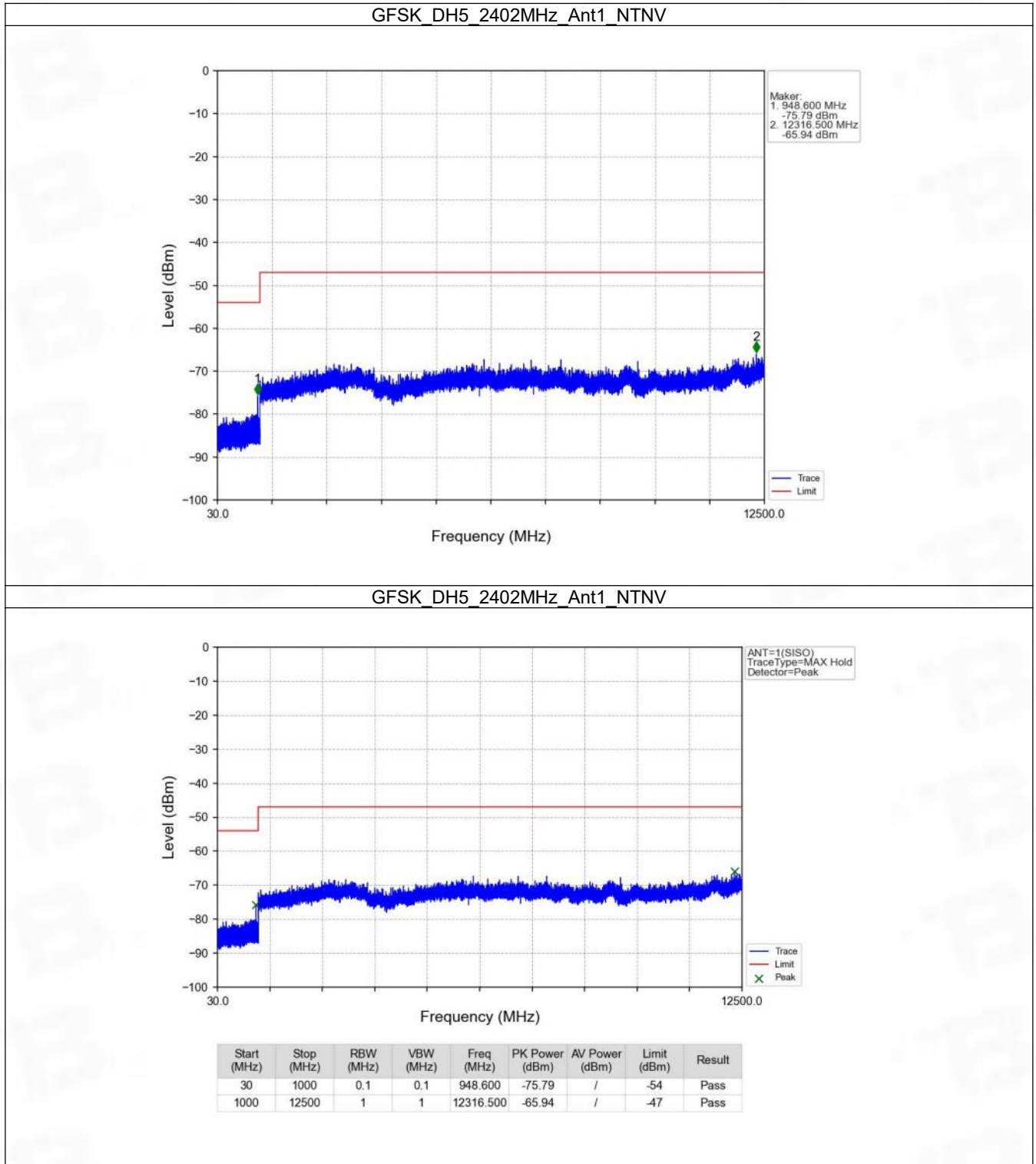
7.1 Test Result

7.1.1 RxSe_NTNV

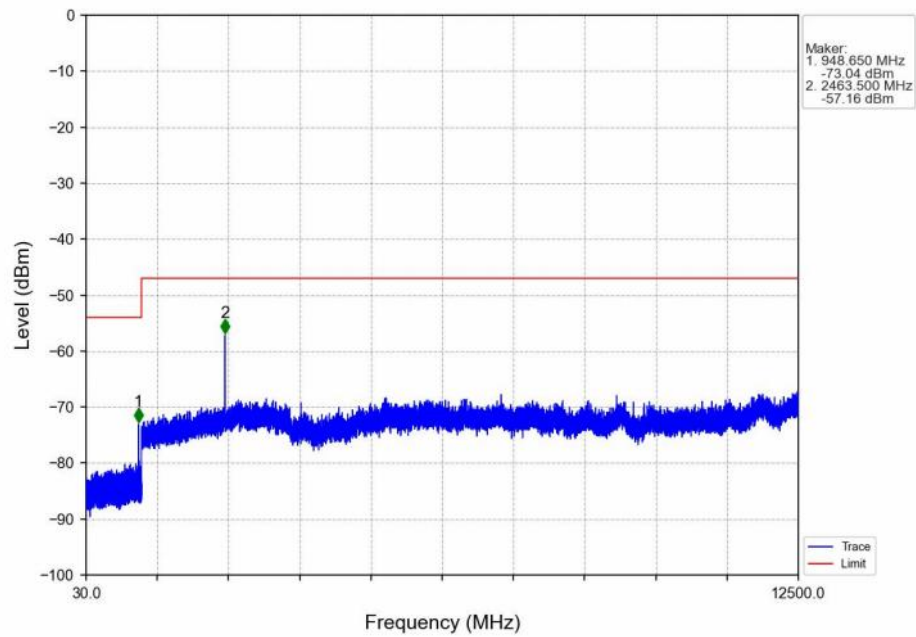
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	948.6	-75.79	0.026	/	/	4	Pass
				1000	12500	12316.5	-65.94	0.255	/	/	20	Pass
		2480	1	30	1000	948.65	-73.04	0.050	/	/	4	Pass
				1000	12500	2463.5	-57.16	1.923	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	948.55	-78.96	0.013	/	/	4	Pass
				1000	12500	2464	-57.19	1.910	/	/	20	Pass
		2480	1	30	1000	948.55	-78.63	0.014	/	/	4	Pass
				1000	12500	2464	-57.59	1.742	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	958.6	-78.82	0.013	/	/	4	Pass
				1000	12500	2463.5	-57.54	1.762	/	/	20	Pass
		2480	1	30	1000	948.65	-78.47	0.014	/	/	4	Pass
				1000	12500	2463.5	-58.77	1.327	/	/	20	Pass

7.2 Test Graph

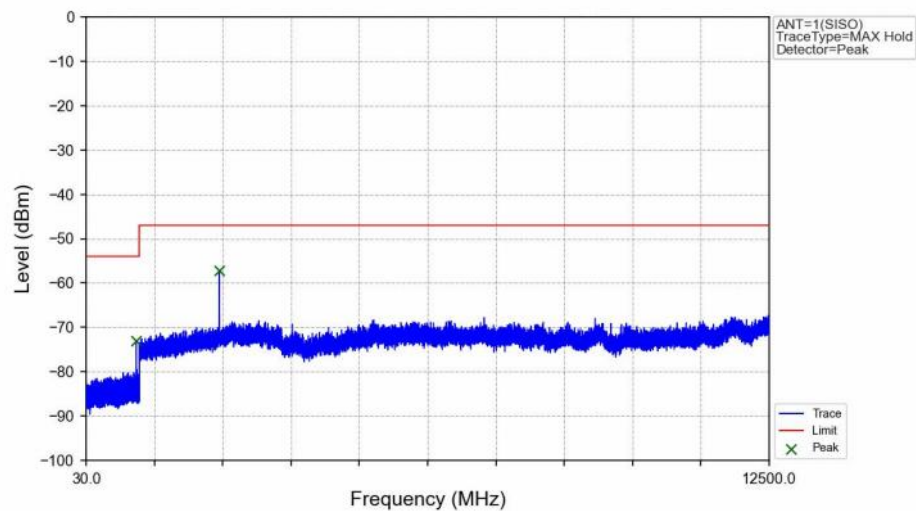
7.2.1 RxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

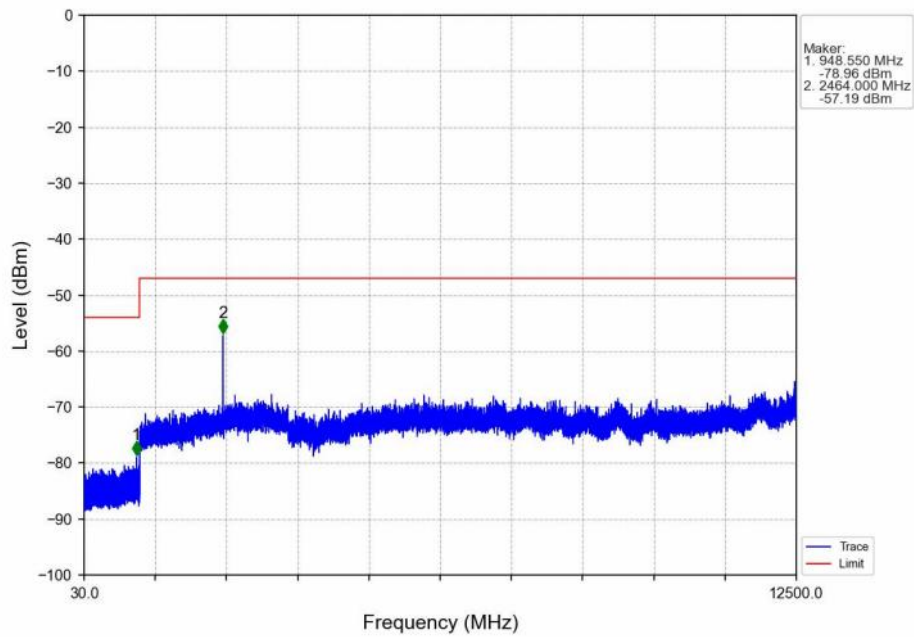


GFSK_DH5_2480MHz_Ant1_NTNV

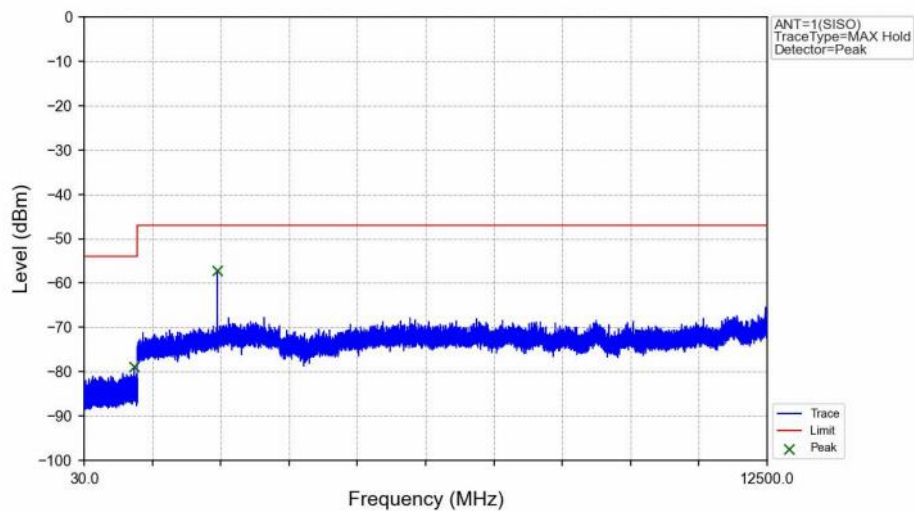


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.650	-73.04	/	-54	Pass
1000	12500	1	1	2463.500	-57.16	/	-47	Pass

Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

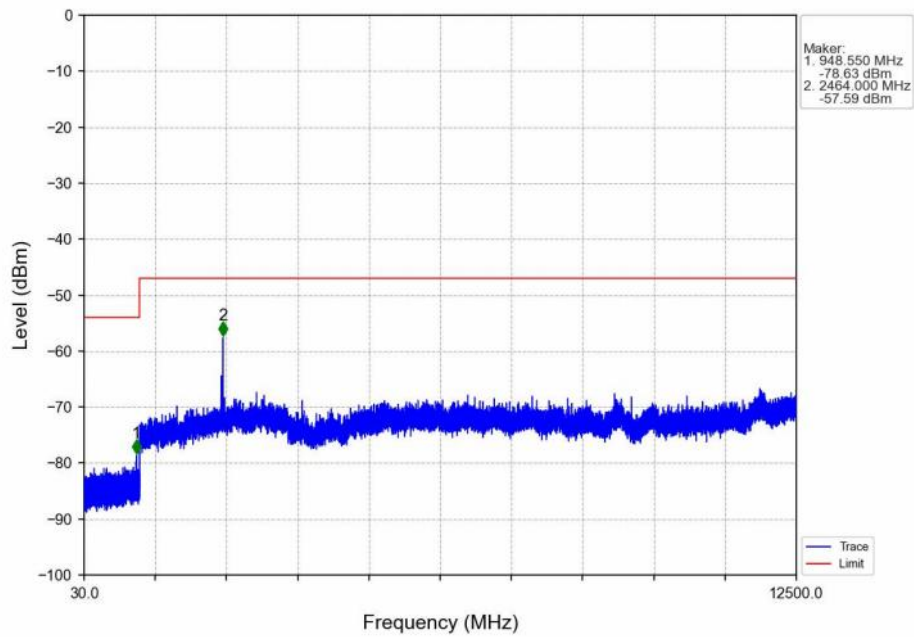


Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

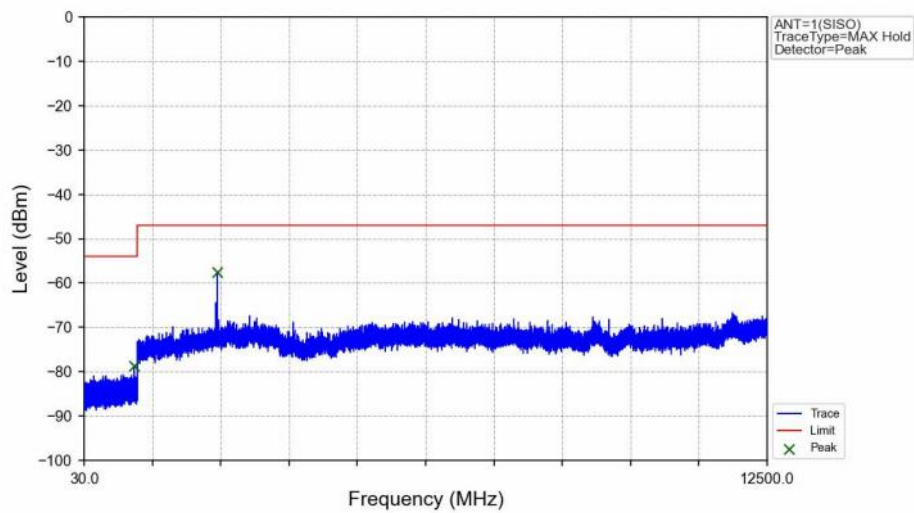


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.550	-78.96	/	-54	Pass
1000	12500	1	1	2464.000	-57.19	/	-47	Pass

Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

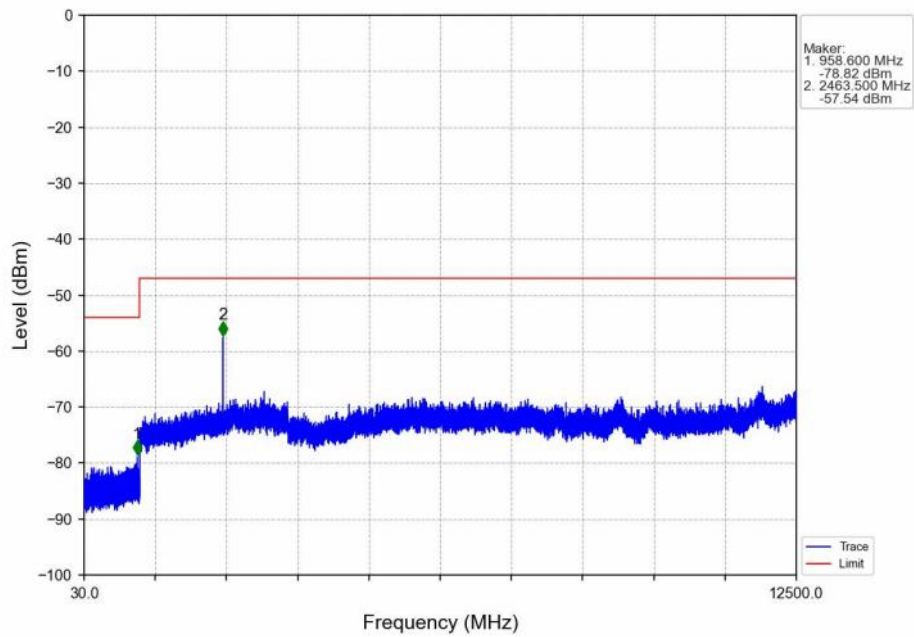


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

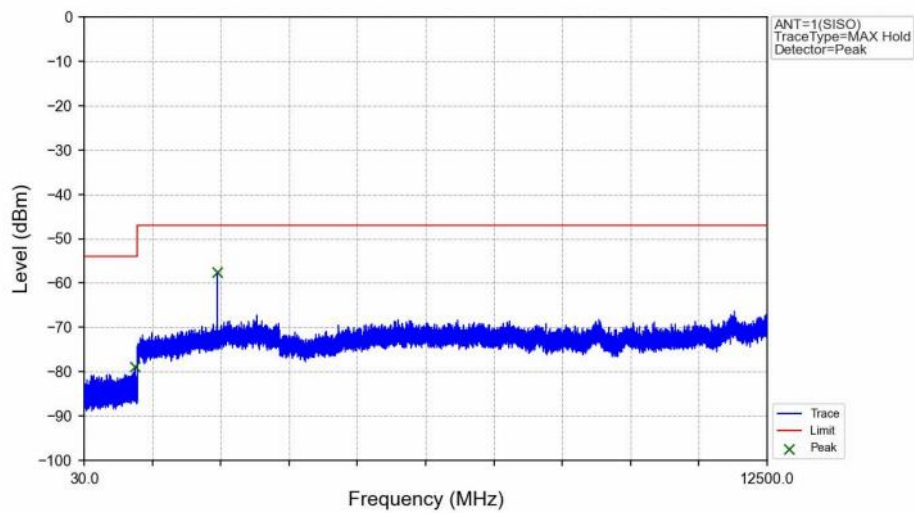


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.550	-78.63	/	-54	Pass
1000	12500	1	1	2464.000	-57.59	/	-47	Pass

8DPSK_3DH5_2402MHz_Ant1_NTNV

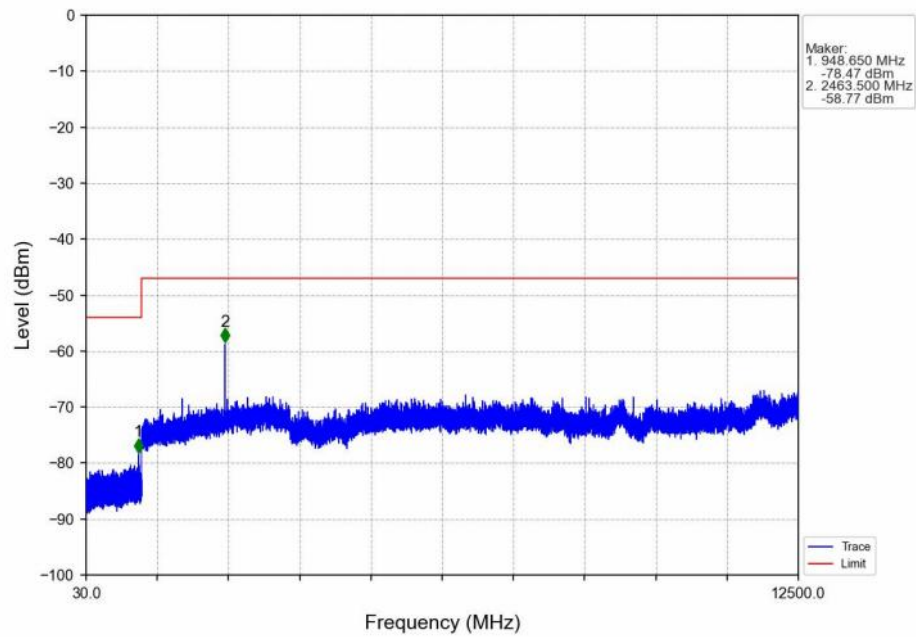


8DPSK_3DH5_2402MHz_Ant1_NTNV

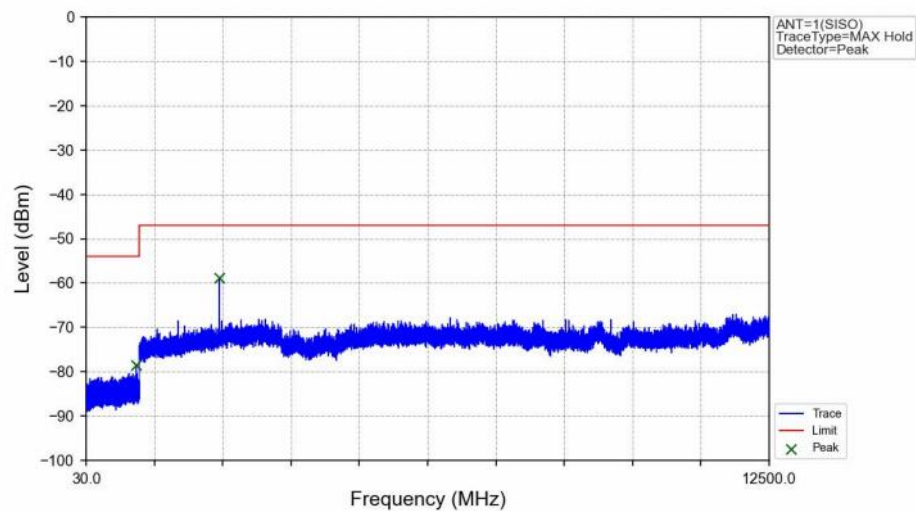


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	958.600	-78.82	/	-54	Pass
1000	12500	1	1	2463.500	-57.54	/	-47	Pass

8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.650	-78.47	/	-54	Pass
1000	12500	1	1	2463.500	-58.77	/	-47	Pass