

Appendix: Bluetooth Classic

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1. Duty Cycle

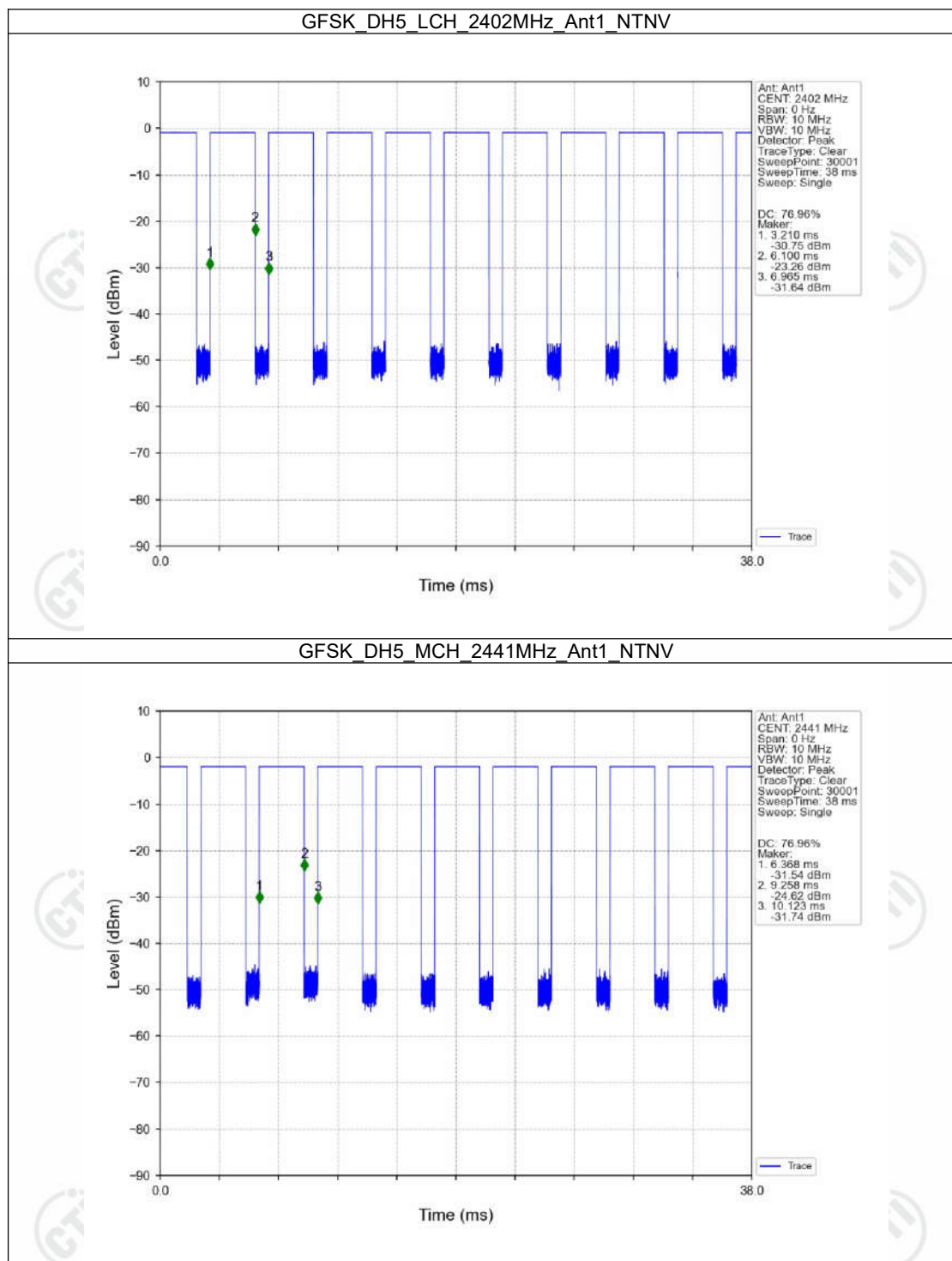
1.1 Test Result

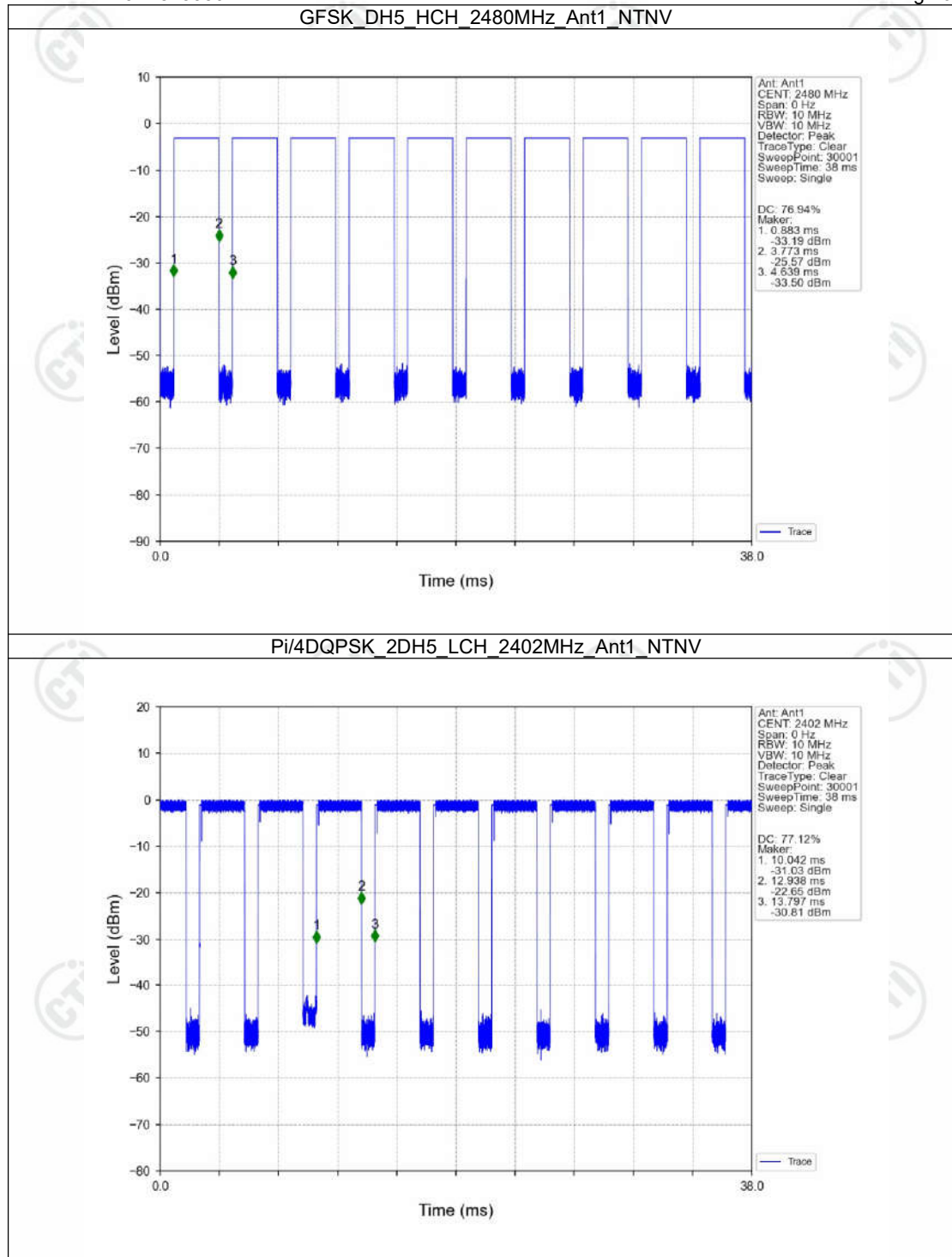
1.1.1 Ant1

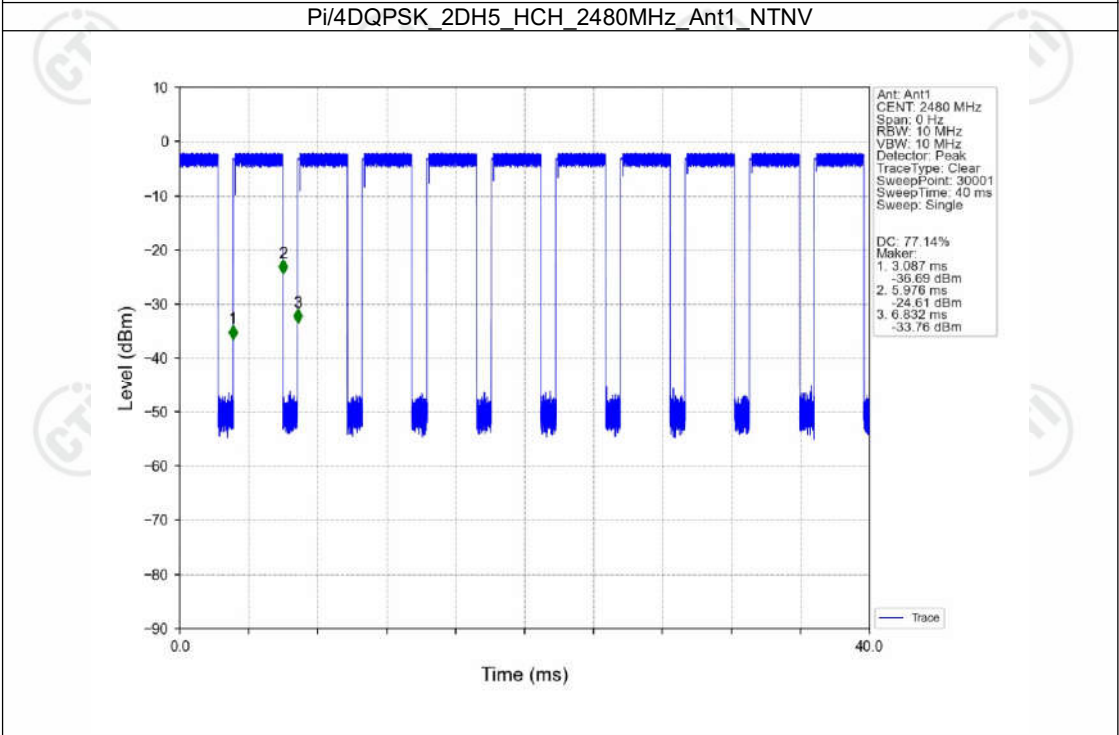
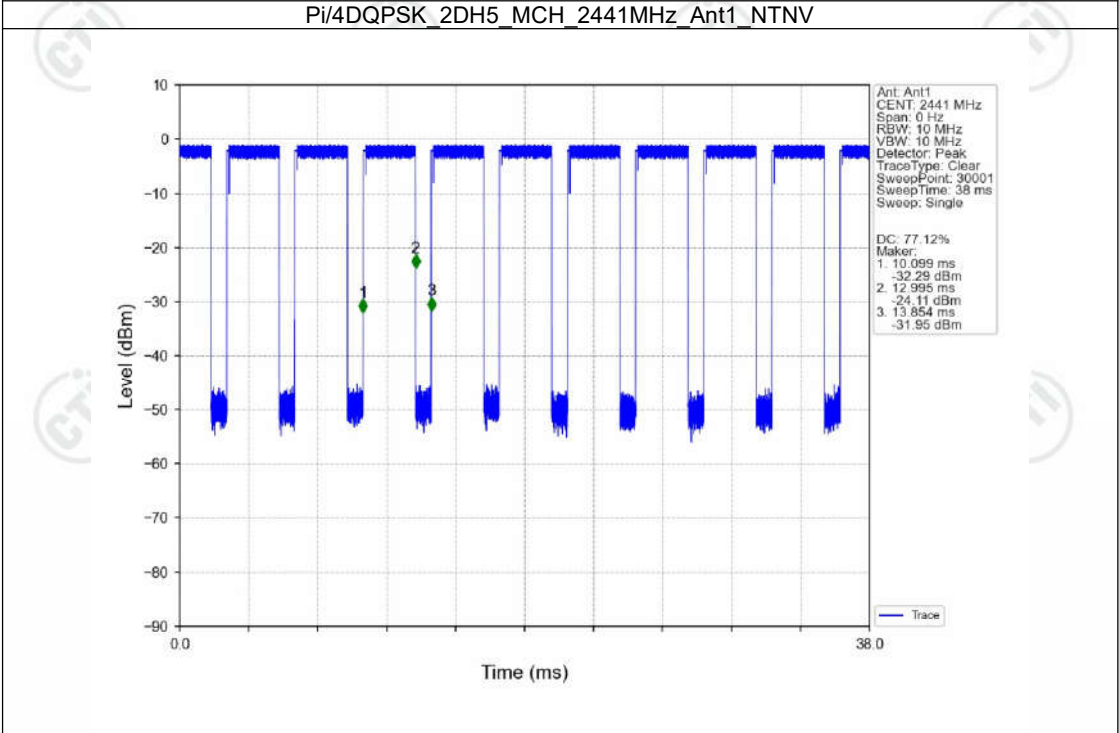
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.890	3.755	76.96	1.14	0.03
		2441	DH5	2.890	3.755	76.96	1.14	0.03
		2480	DH5	2.890	3.756	76.94	1.14	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.896	3.755	77.12	1.13	0.03
		2441	2DH5	2.896	3.755	77.12	1.13	0.03
		2480	2DH5	2.889	3.745	77.14	1.13	0.00

1.2 Test Graph

1.2.1 Ant1







2. Bandwidth

2.1 Test Result

2.1.1 OBW

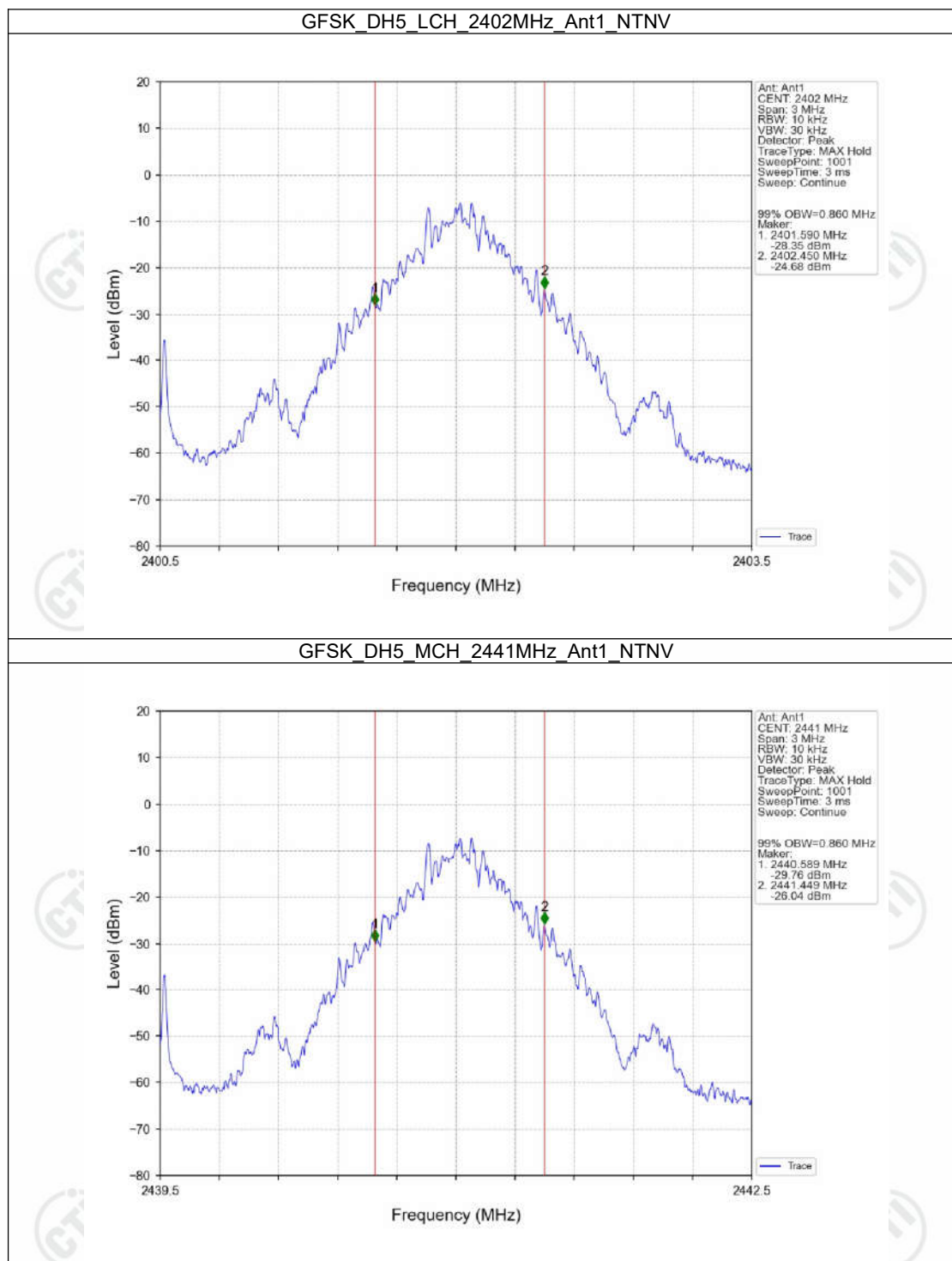
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.860	/	Pass
		2441	DH5	1	0.860	/	Pass
		2480	DH5	1	0.863	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.173	/	Pass
		2441	2DH5	1	1.174	/	Pass
		2480	2DH5	1	1.173	/	Pass

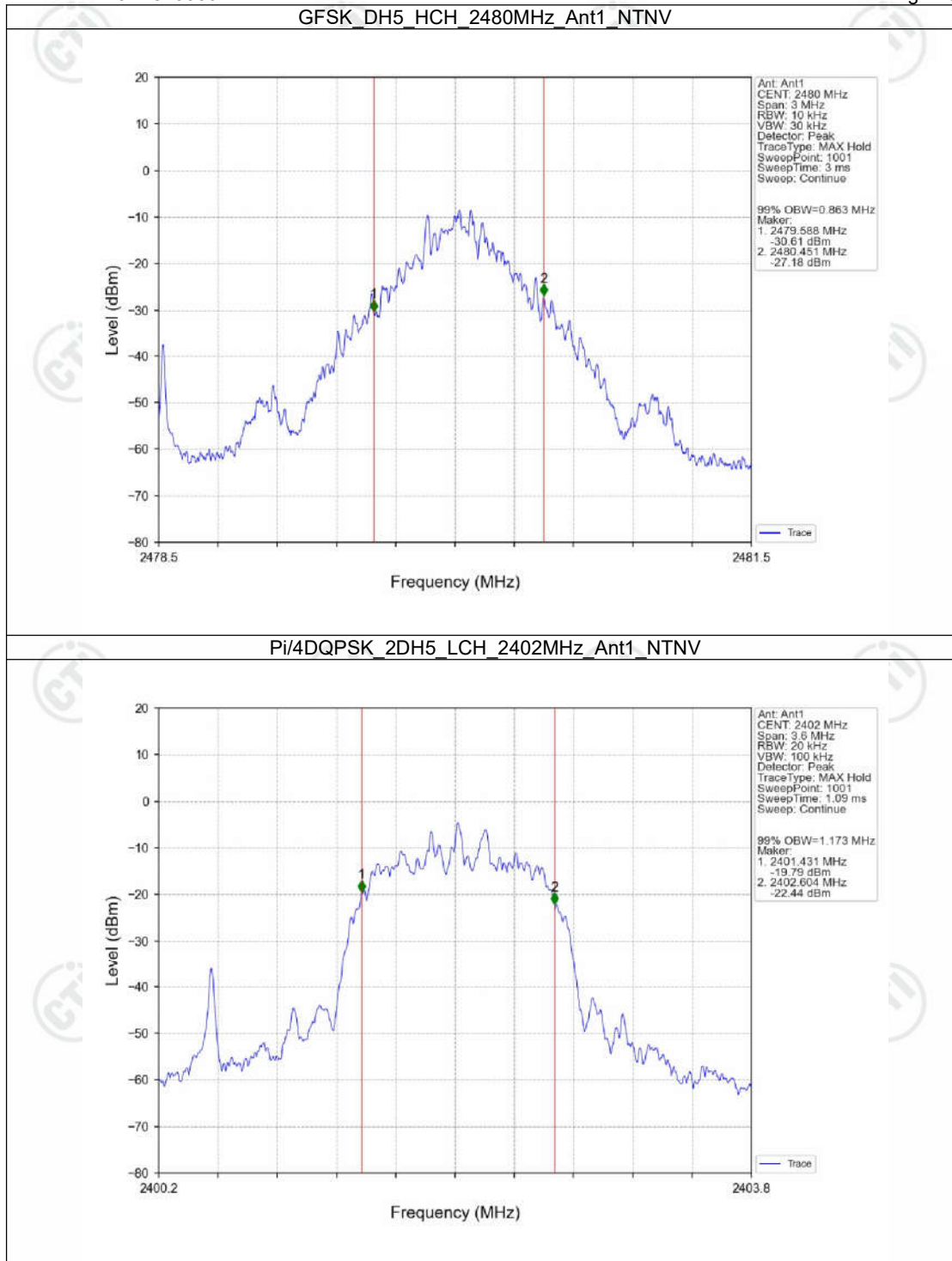
2.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.922	/	Pass
		2441	DH5	1	0.922	/	Pass
		2480	DH5	1	0.923	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.256	/	Pass
		2441	2DH5	1	1.256	/	Pass
		2480	2DH5	1	1.259	/	Pass

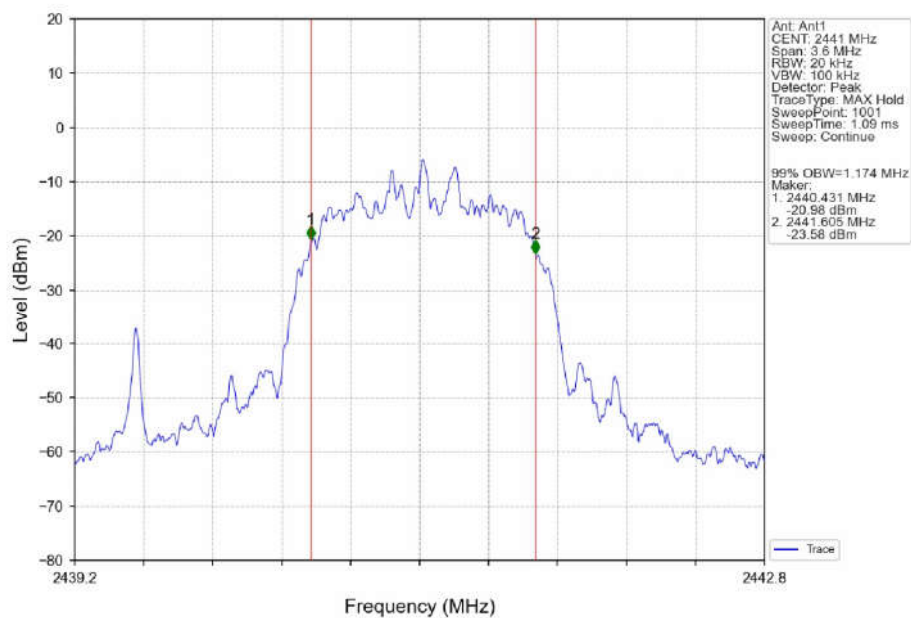
2.2 Test Graph

2.2.1 OBW

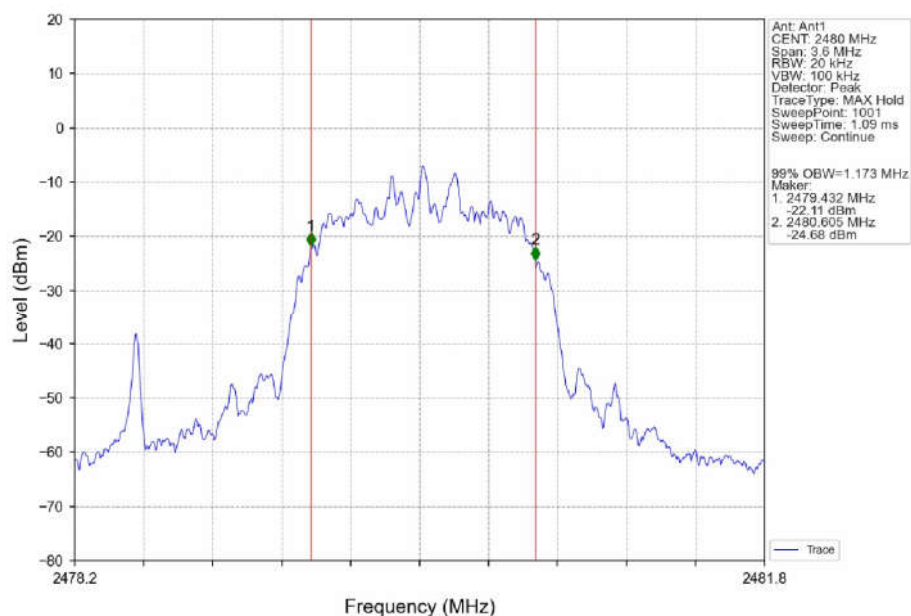




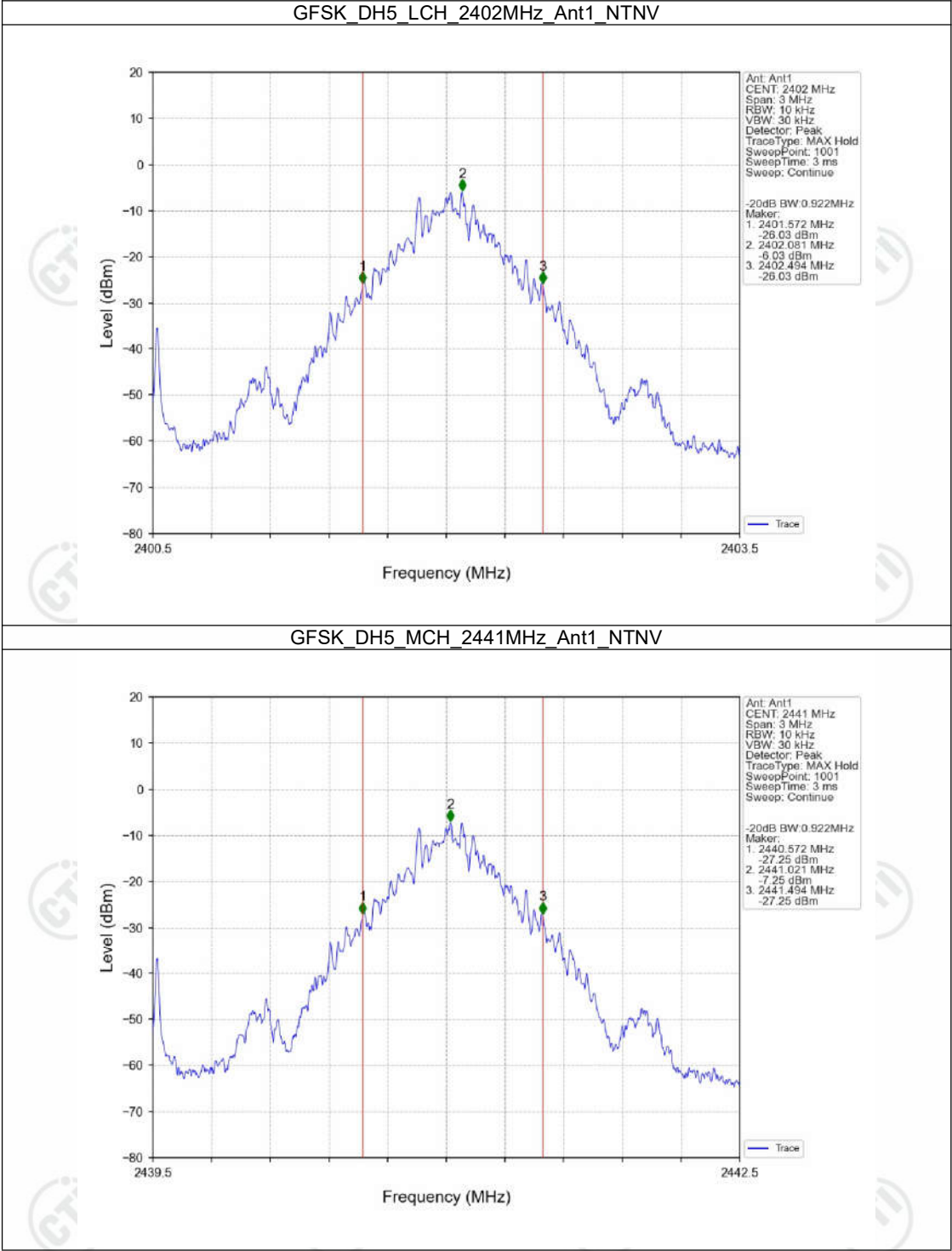
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



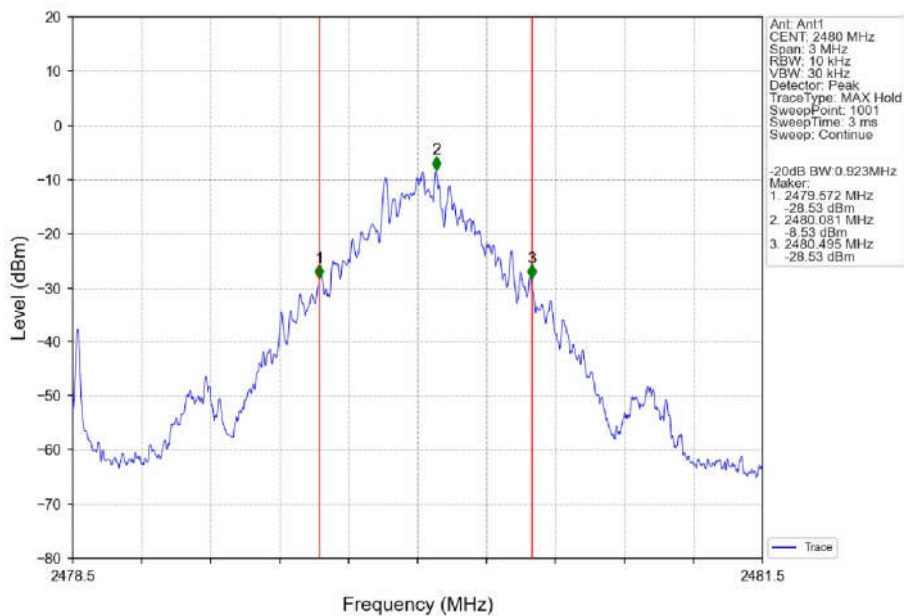
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



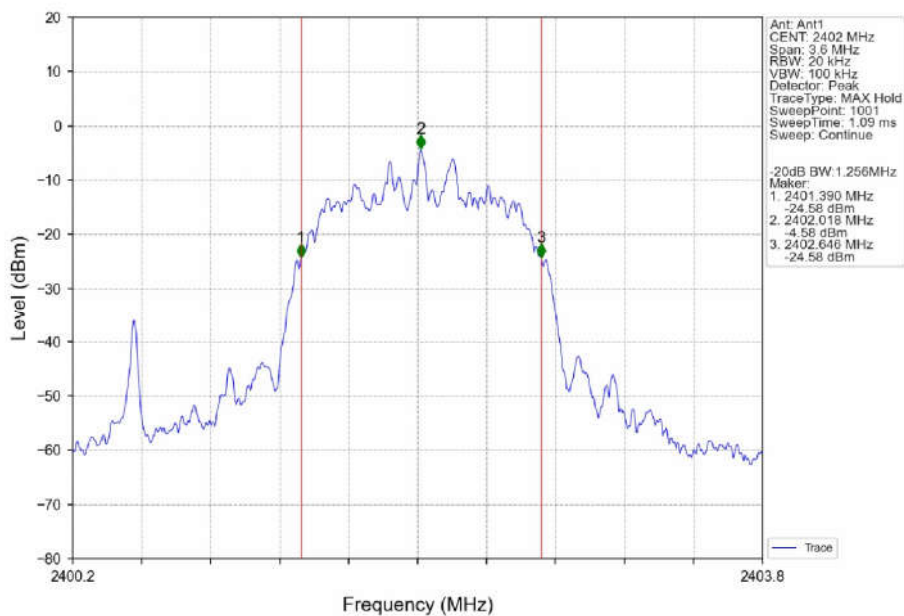
2.2.2 20dB BW



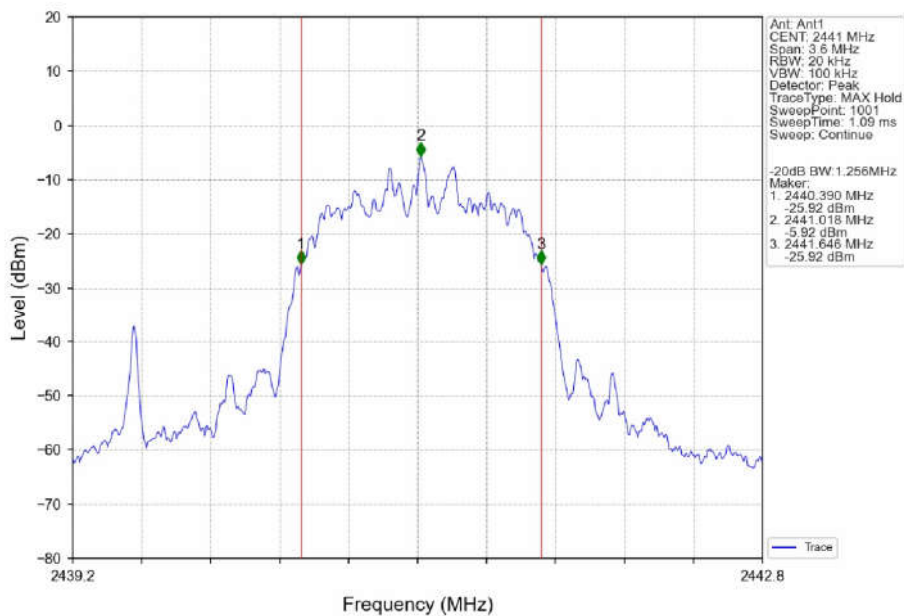
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



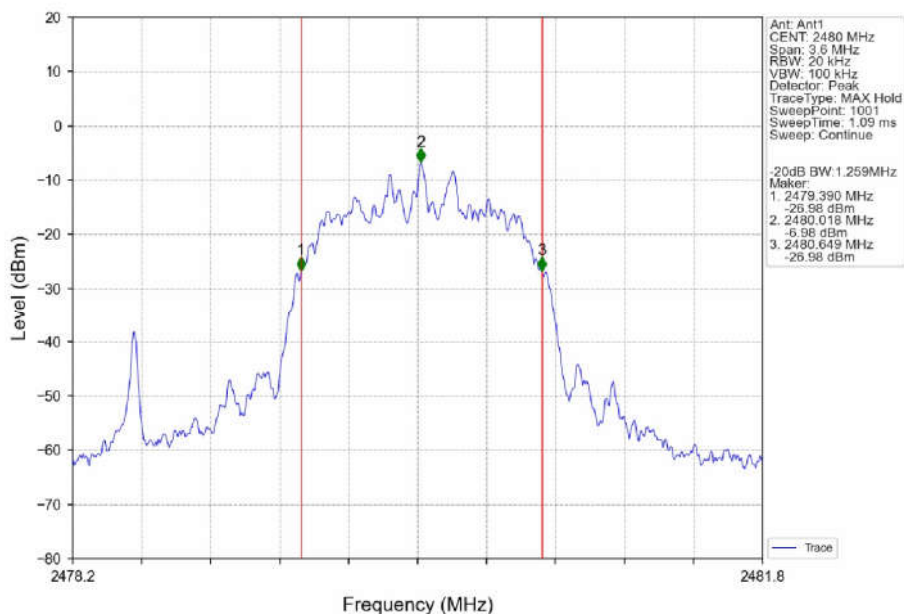
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

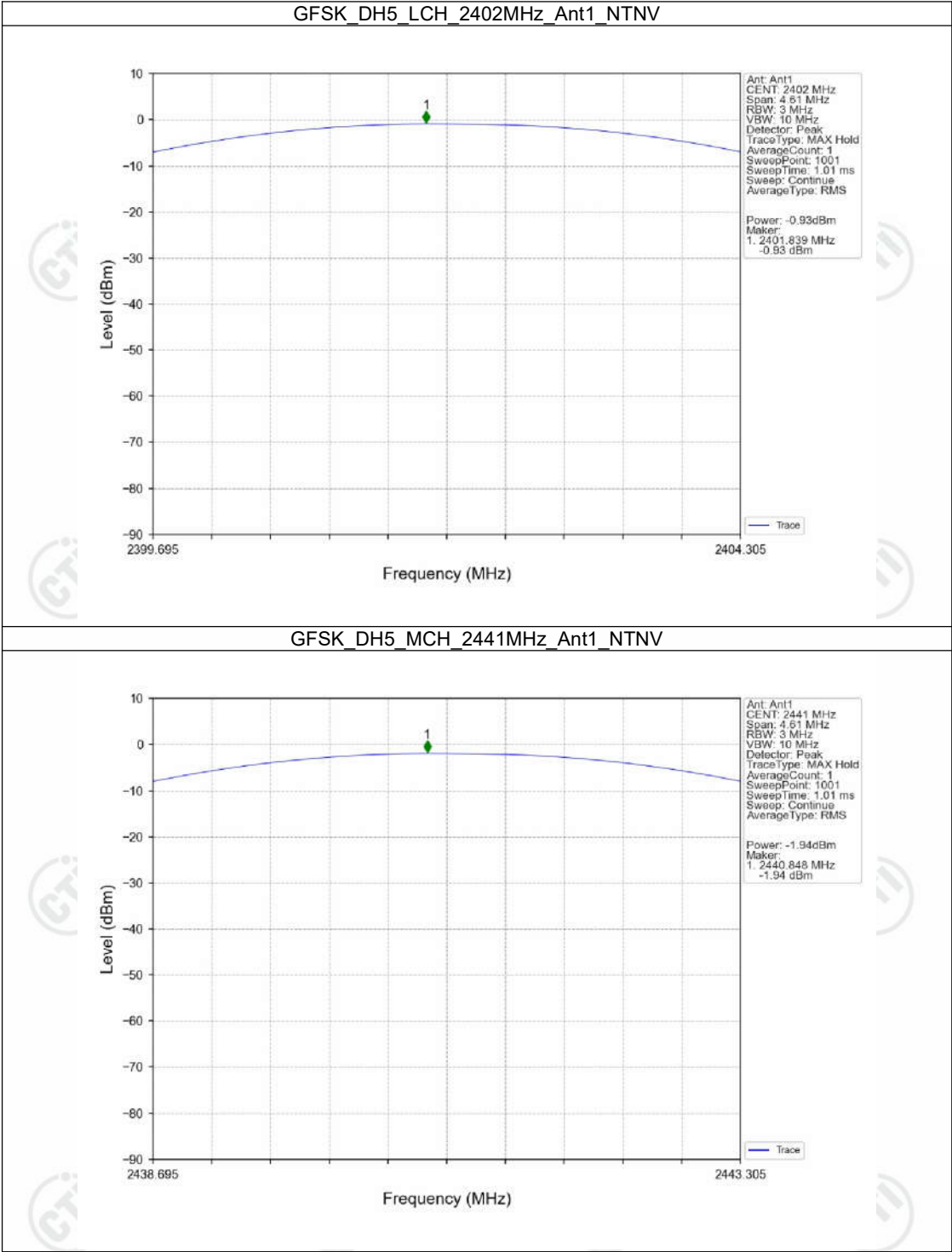
3.1.1 Power

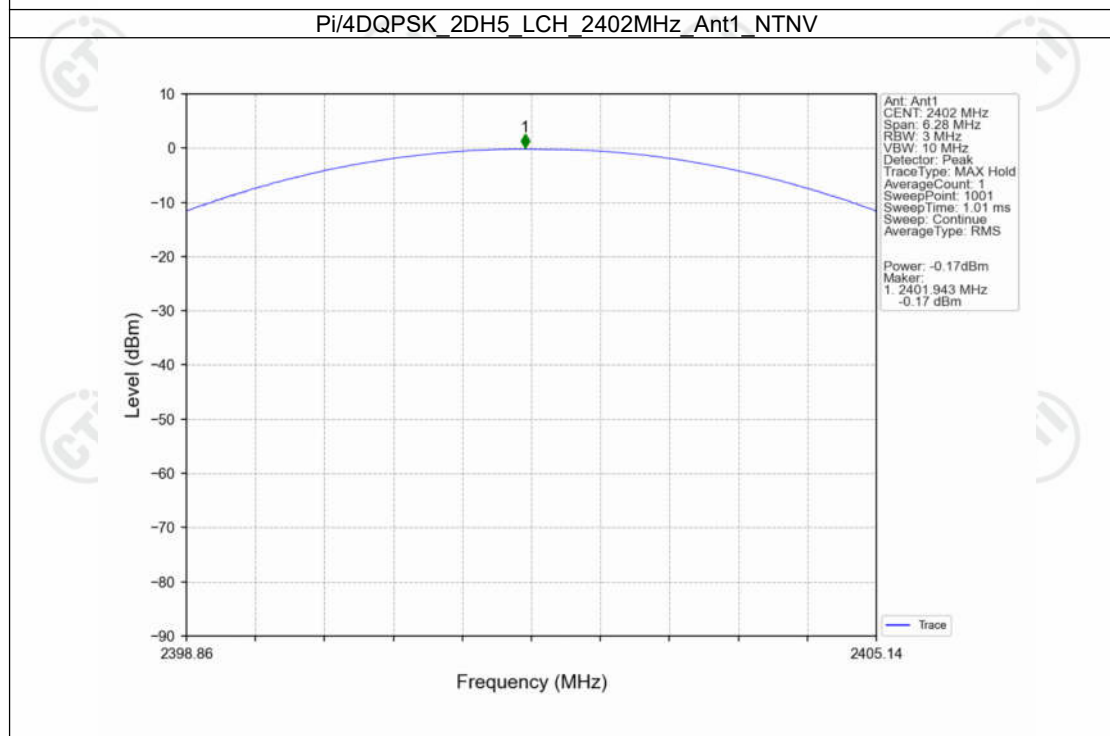
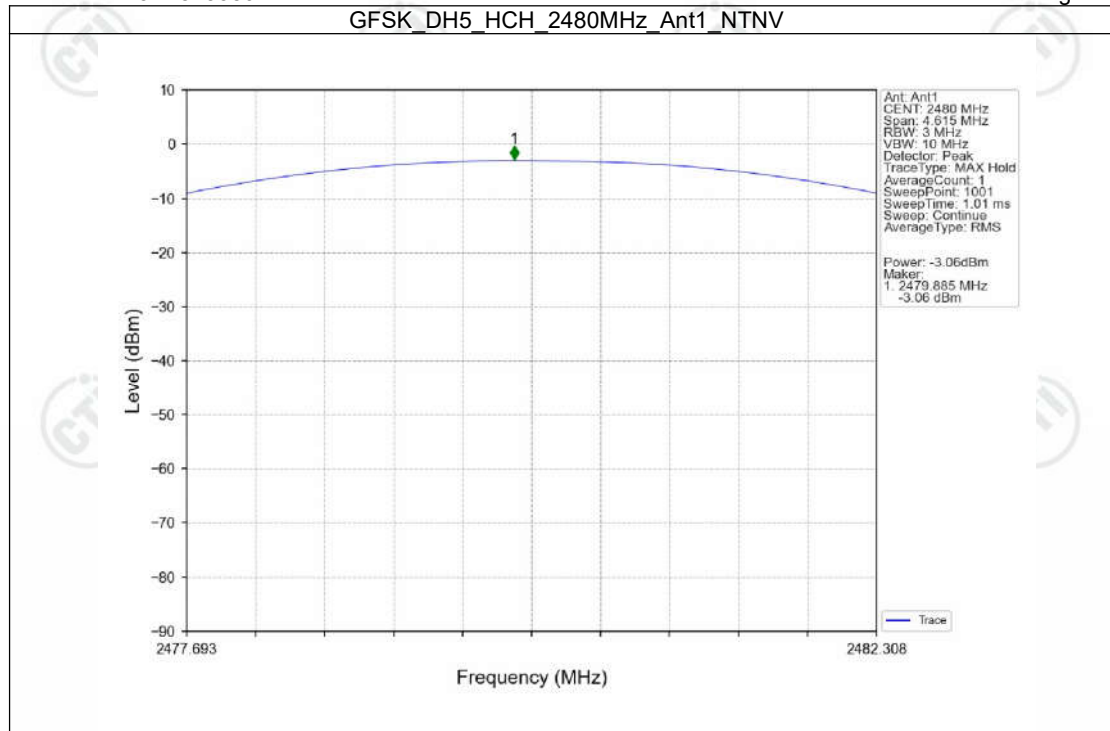
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.93	<=30	Pass
		2441	DH5	-1.94	<=30	Pass
		2480	DH5	-3.06	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-0.17	<=20.97	Pass
		2441	2DH5	-1.16	<=20.97	Pass
		2480	2DH5	-2.23	<=20.97	Pass

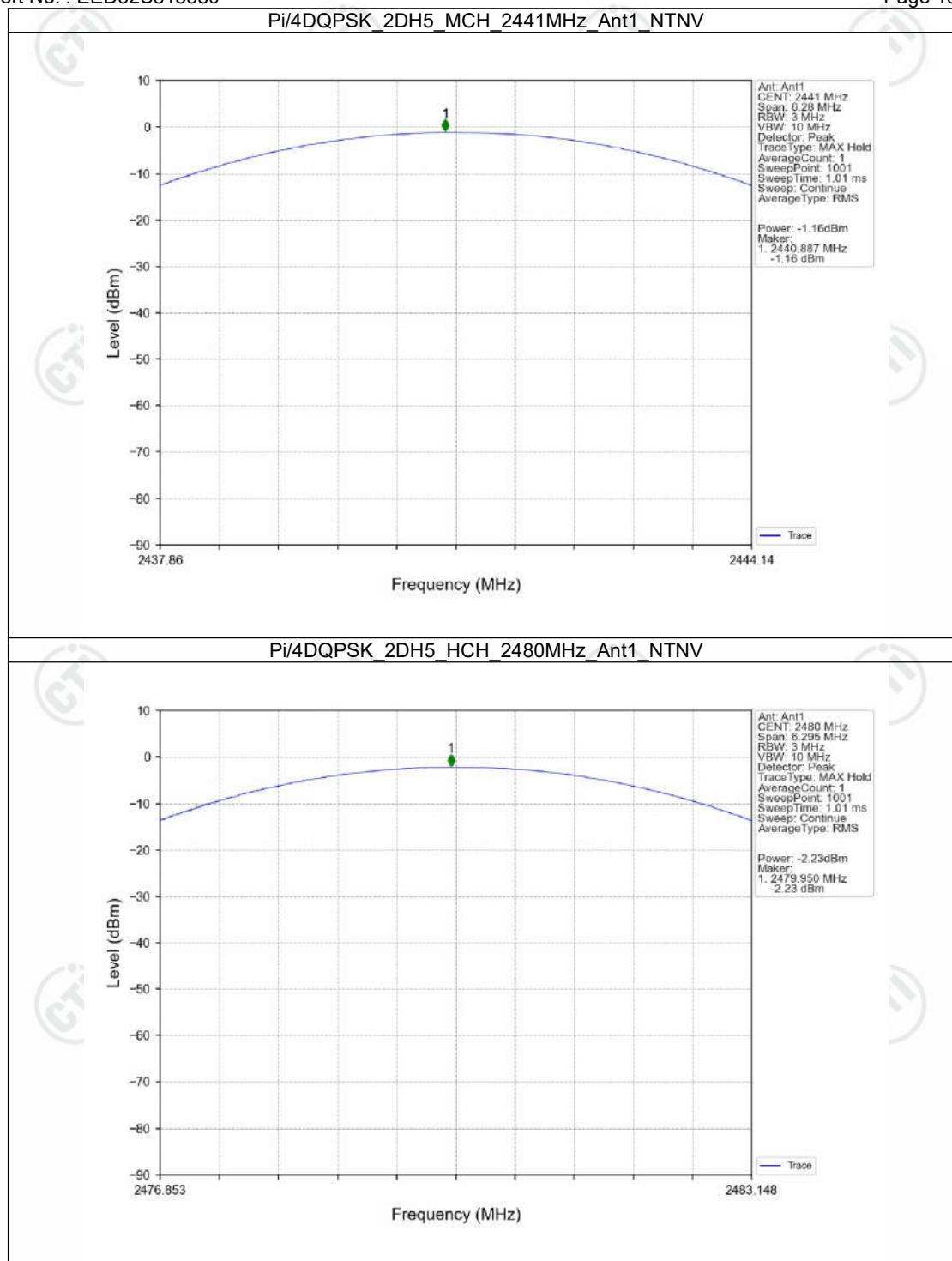
Note1: Antenna Gain: Ant1: 3.04dBi;

3.2 Test Graph

3.2.1 Power







4. Carrier Frequency Separation

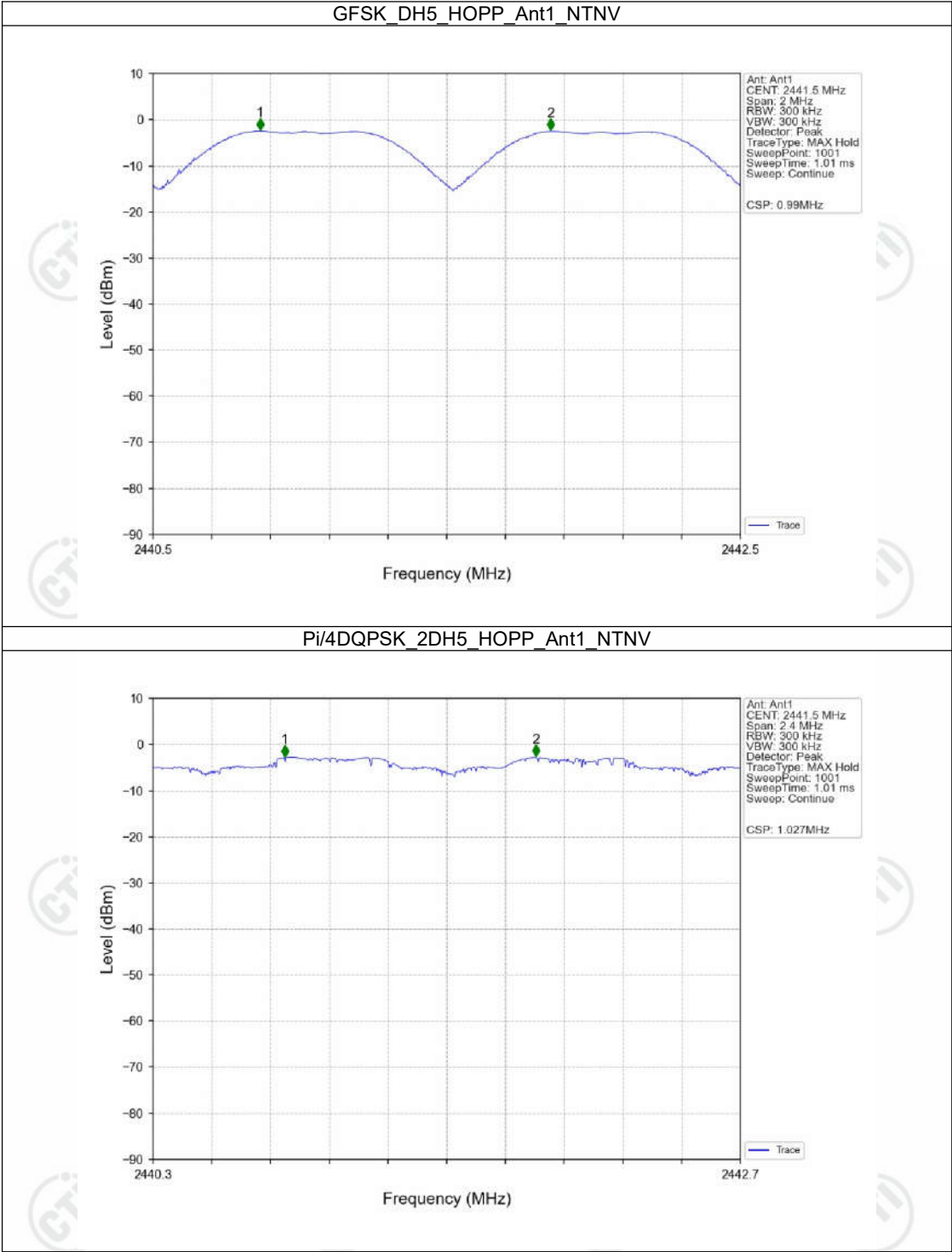
4.1 Test Result

4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.990	0.923	≥ 0.923	Pass
PI/4DQPSK	SISO	HOPP	2DH5	1.027	1.259	≥ 0.839	Pass

4.2 Test Graph

4.2.1 Ant1



5. Number of Hopping Frequencies

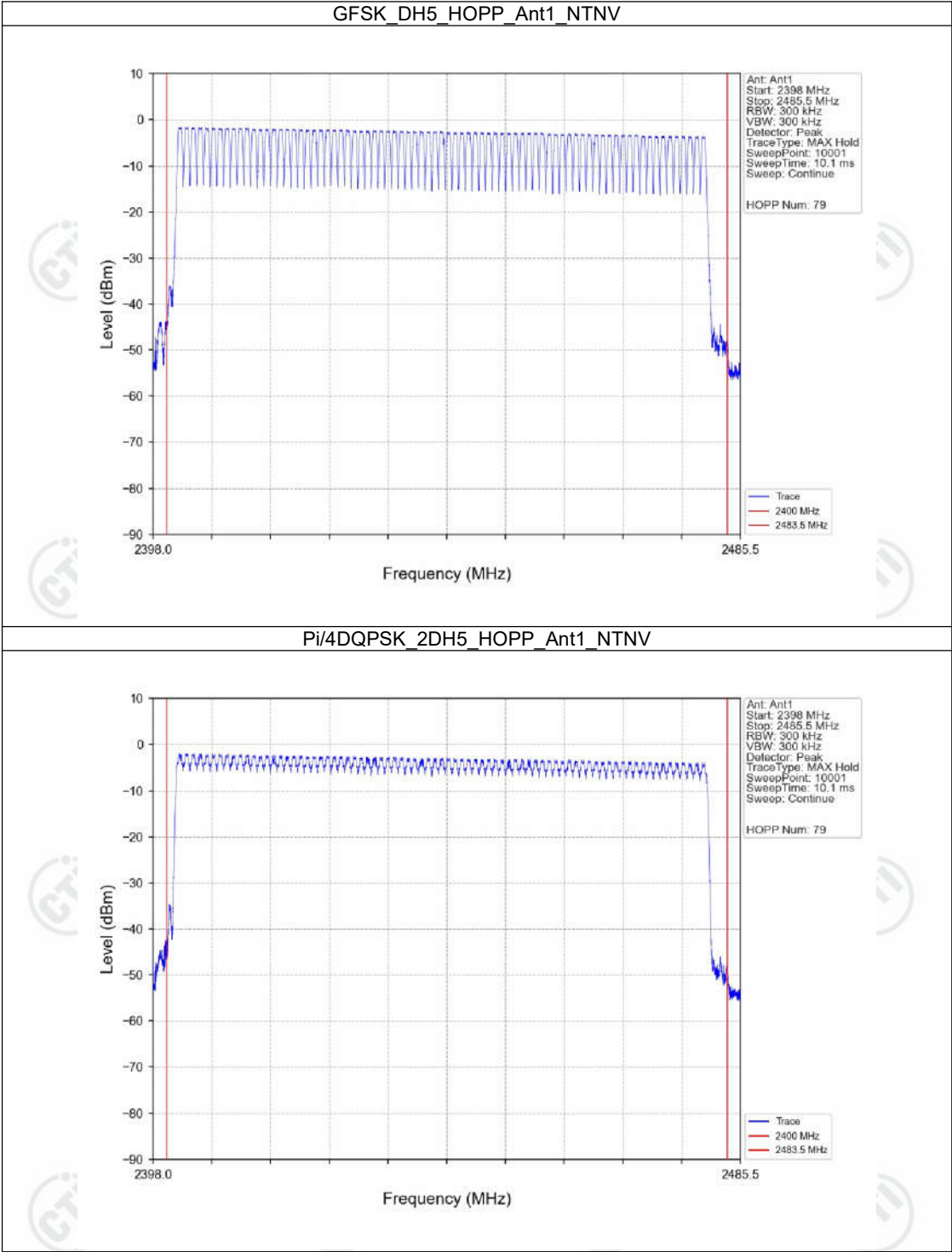
5.1 Test Result

5.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass

5.2 Test Graph

5.2.1 HoppNum



6. Time of Occupancy (Dwell Time)

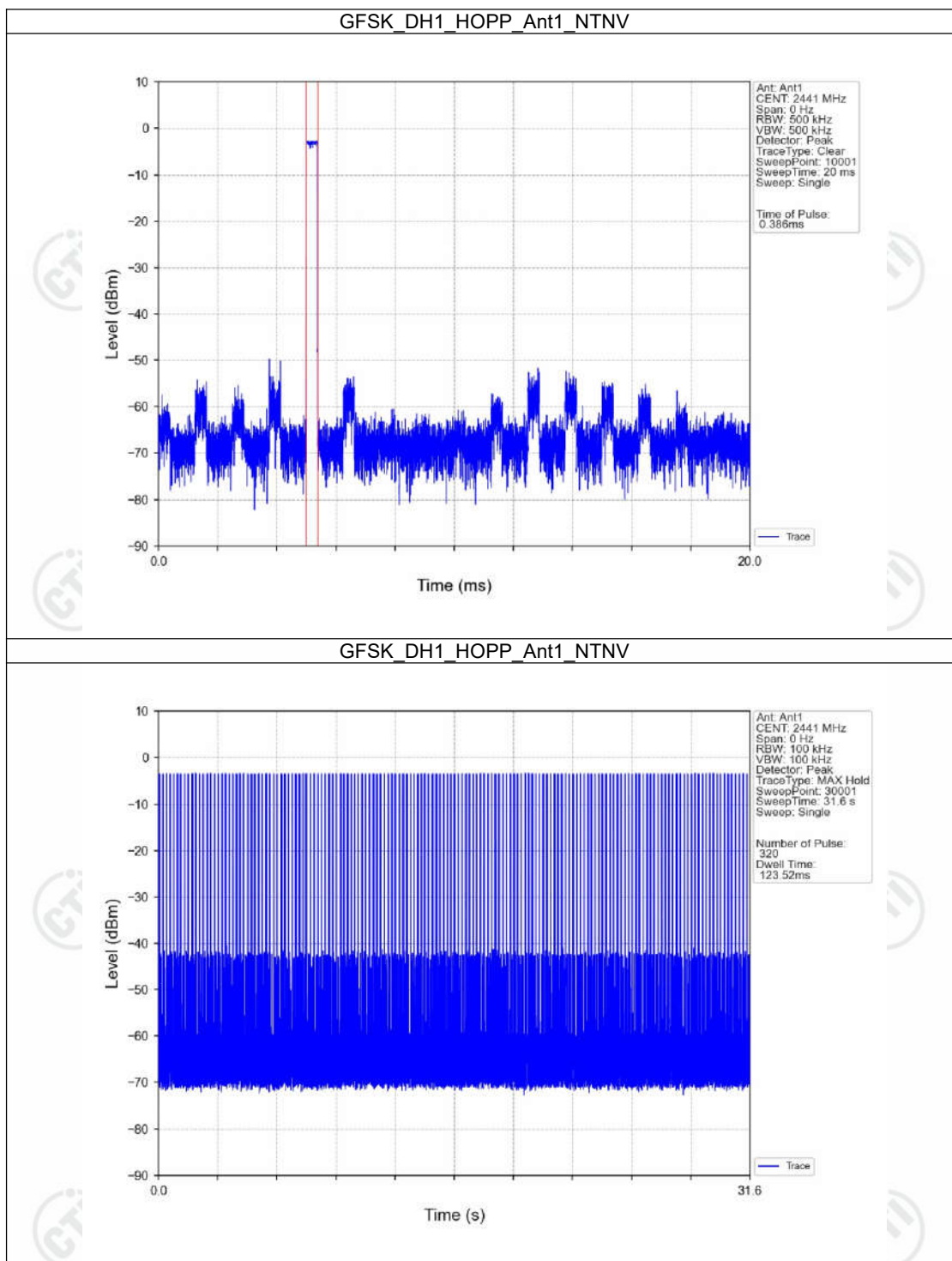
6.1 Test Result

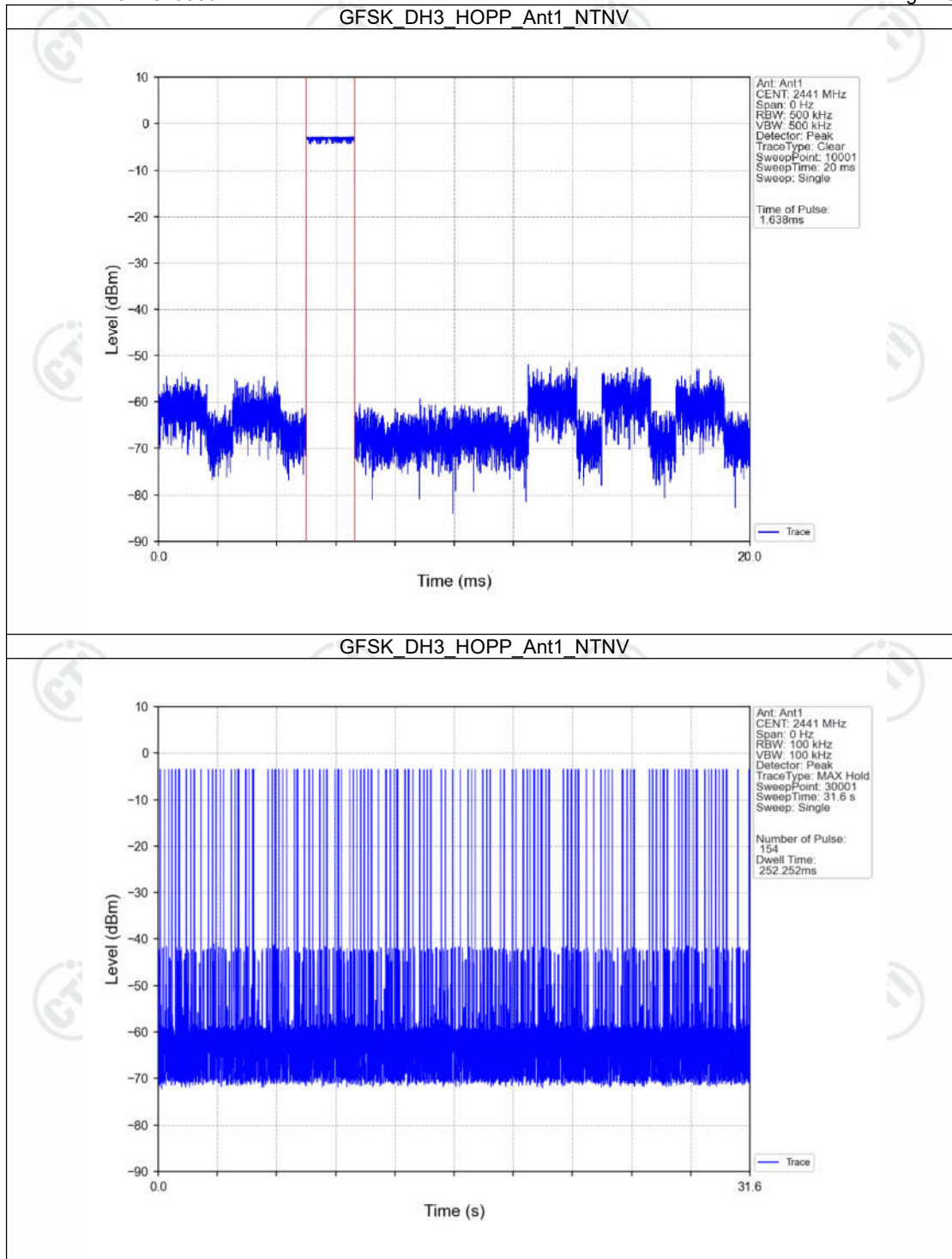
6.1.1 Ant1

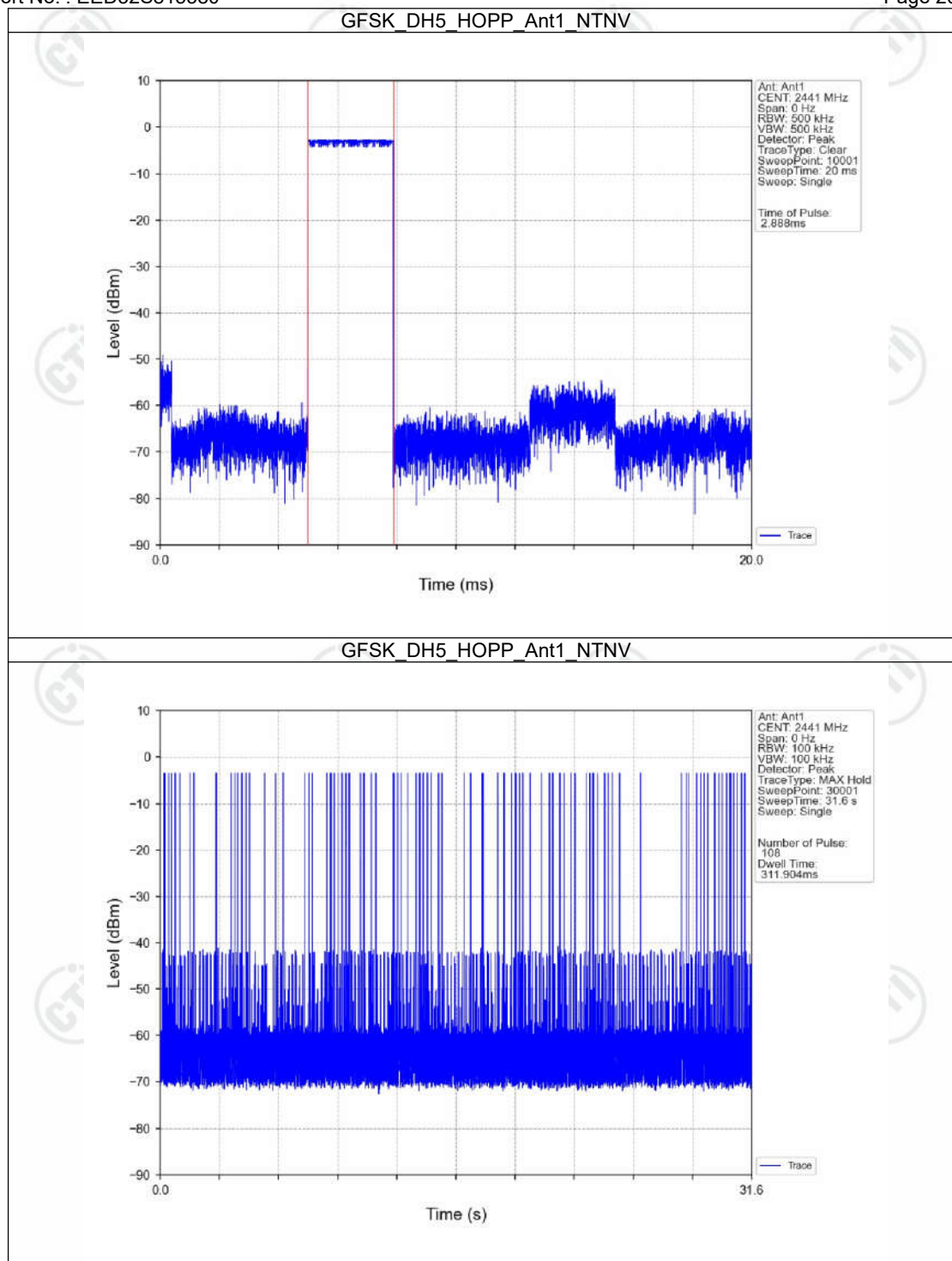
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.638	31.600	154	252.252	<=400	Pass
			DH5	2.888	31.600	108	311.904	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	318	123.384	<=400	Pass
			2DH3	1.642	31.600	161	264.362	<=400	Pass
			2DH5	2.894	31.600	121	350.174	<=400	Pass

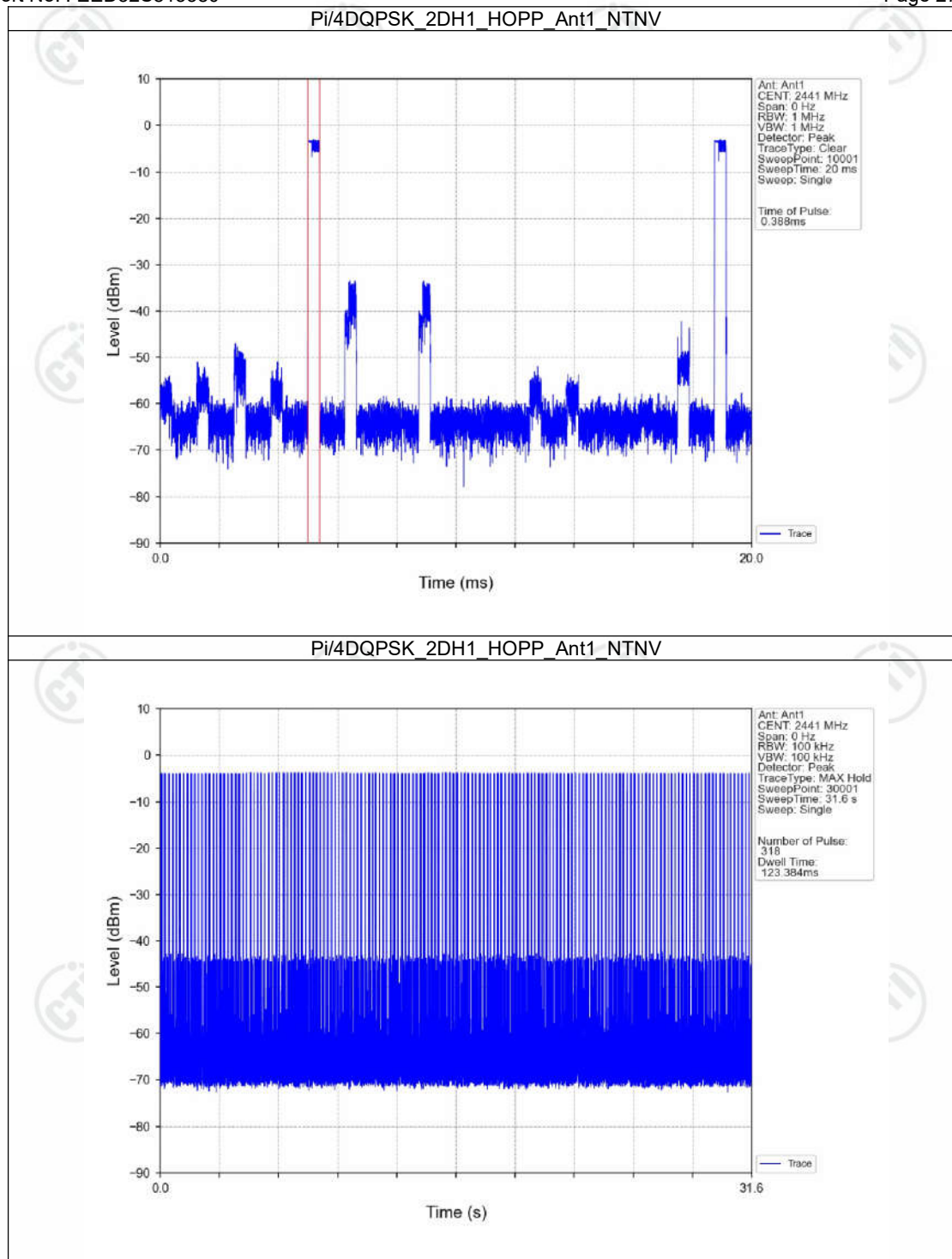
6.2 Test Graph

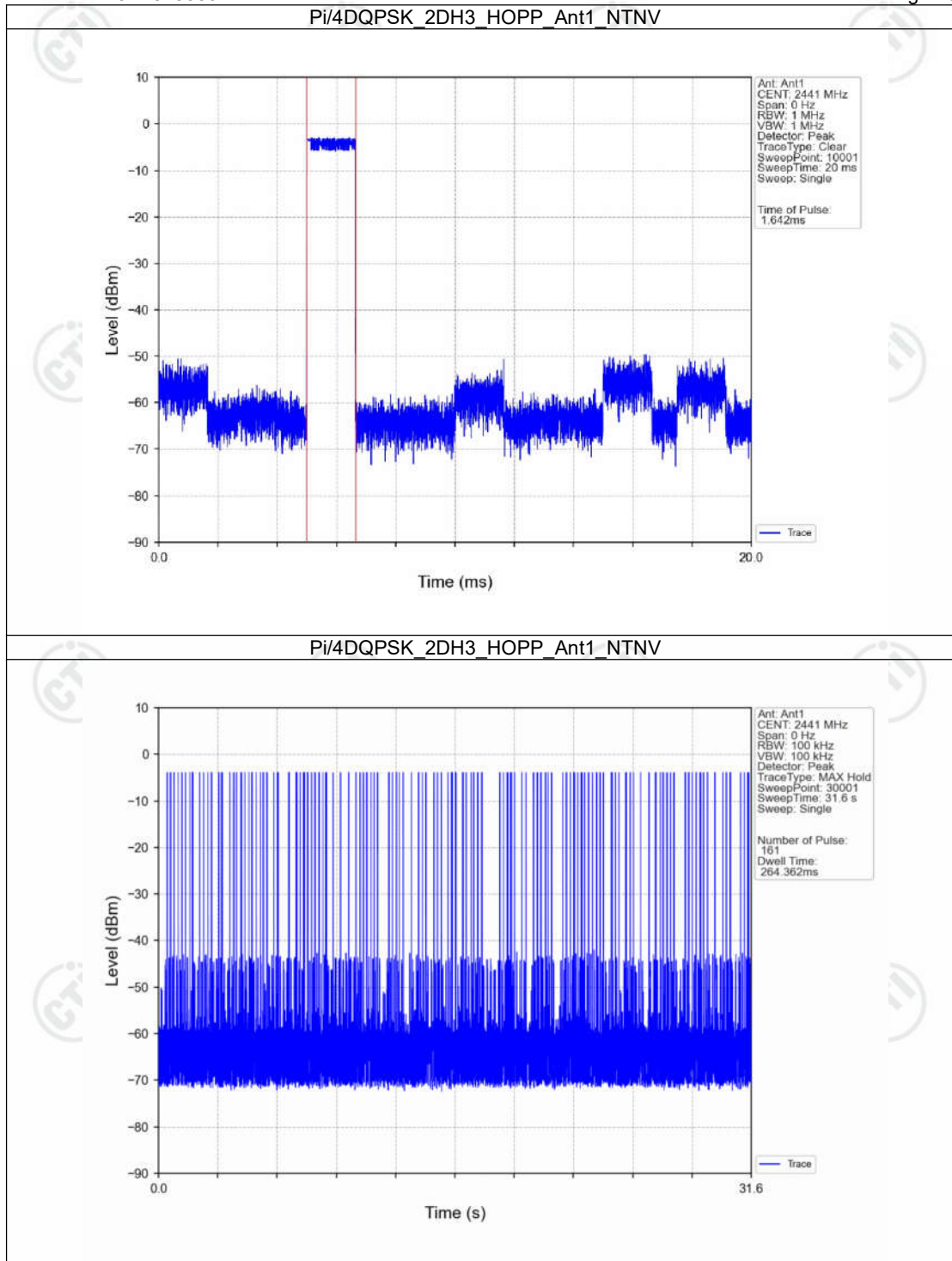
6.2.1 Ant1

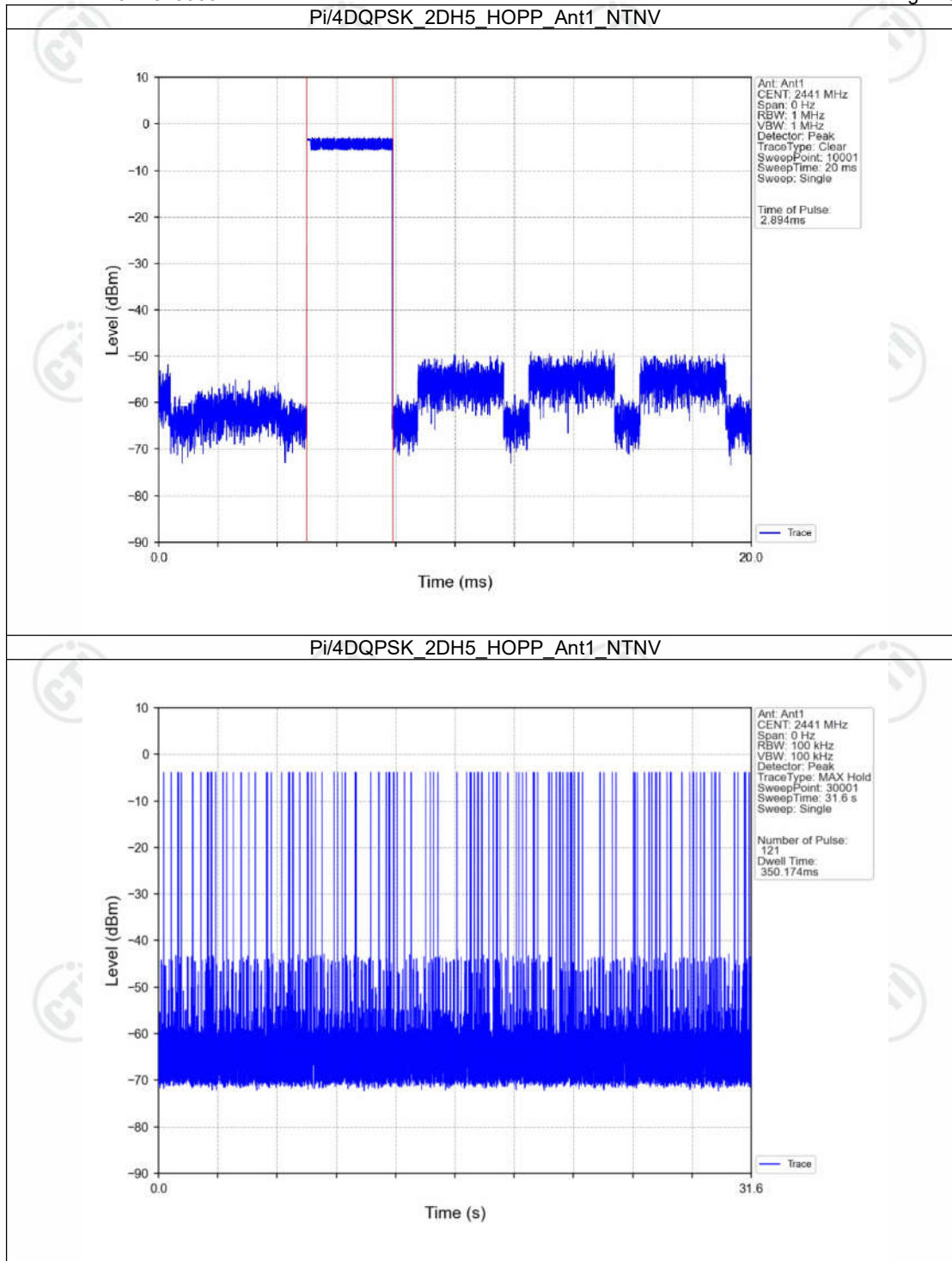












7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

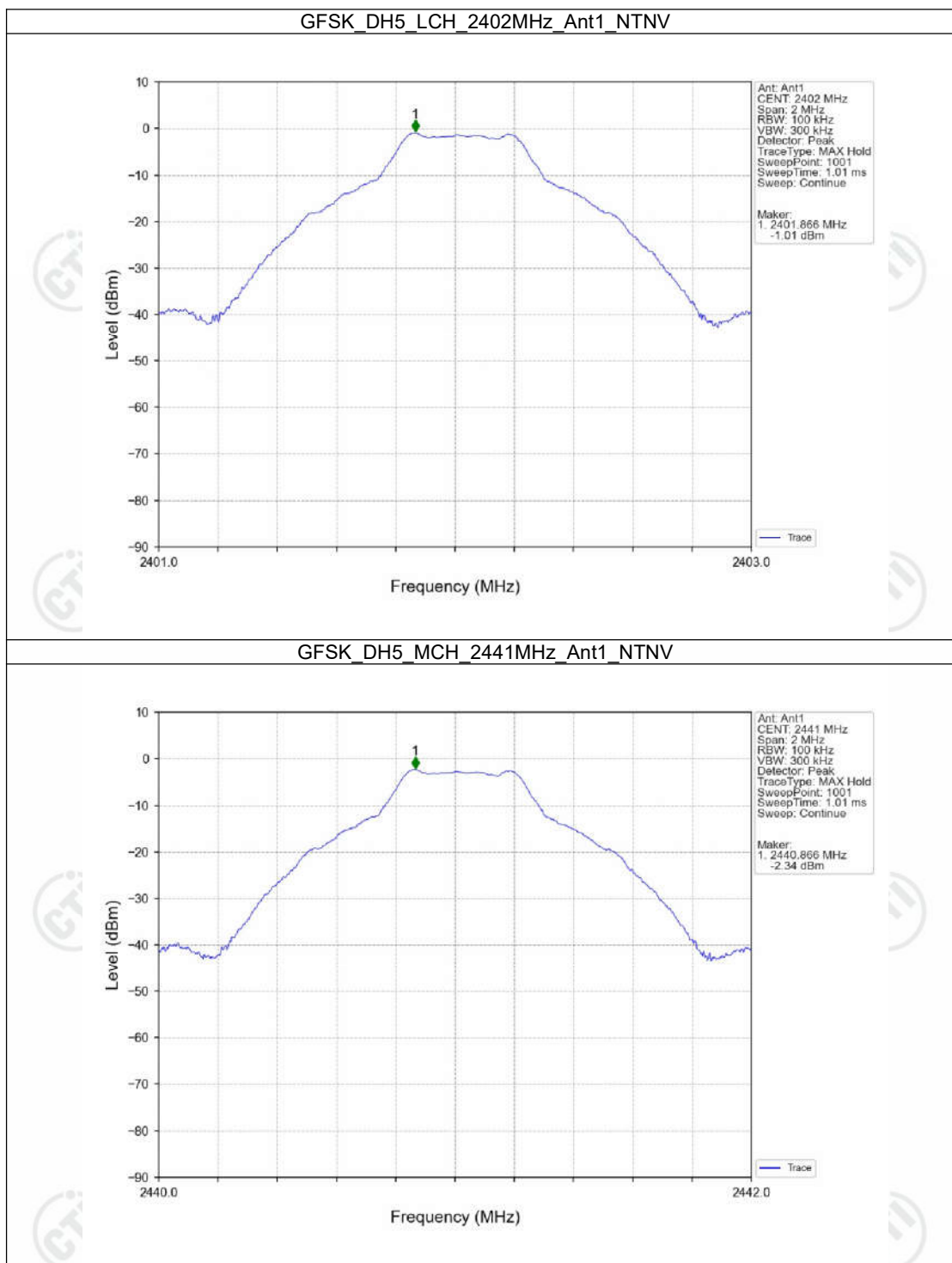
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-1.01
		2441	DH5	1	-2.34
		2480	DH5	1	-3.43
Pi/4DQPSK	SISO	2402	2DH5	1	-1.27
		2441	2DH5	1	-2.52
		2480	2DH5	1	-3.64

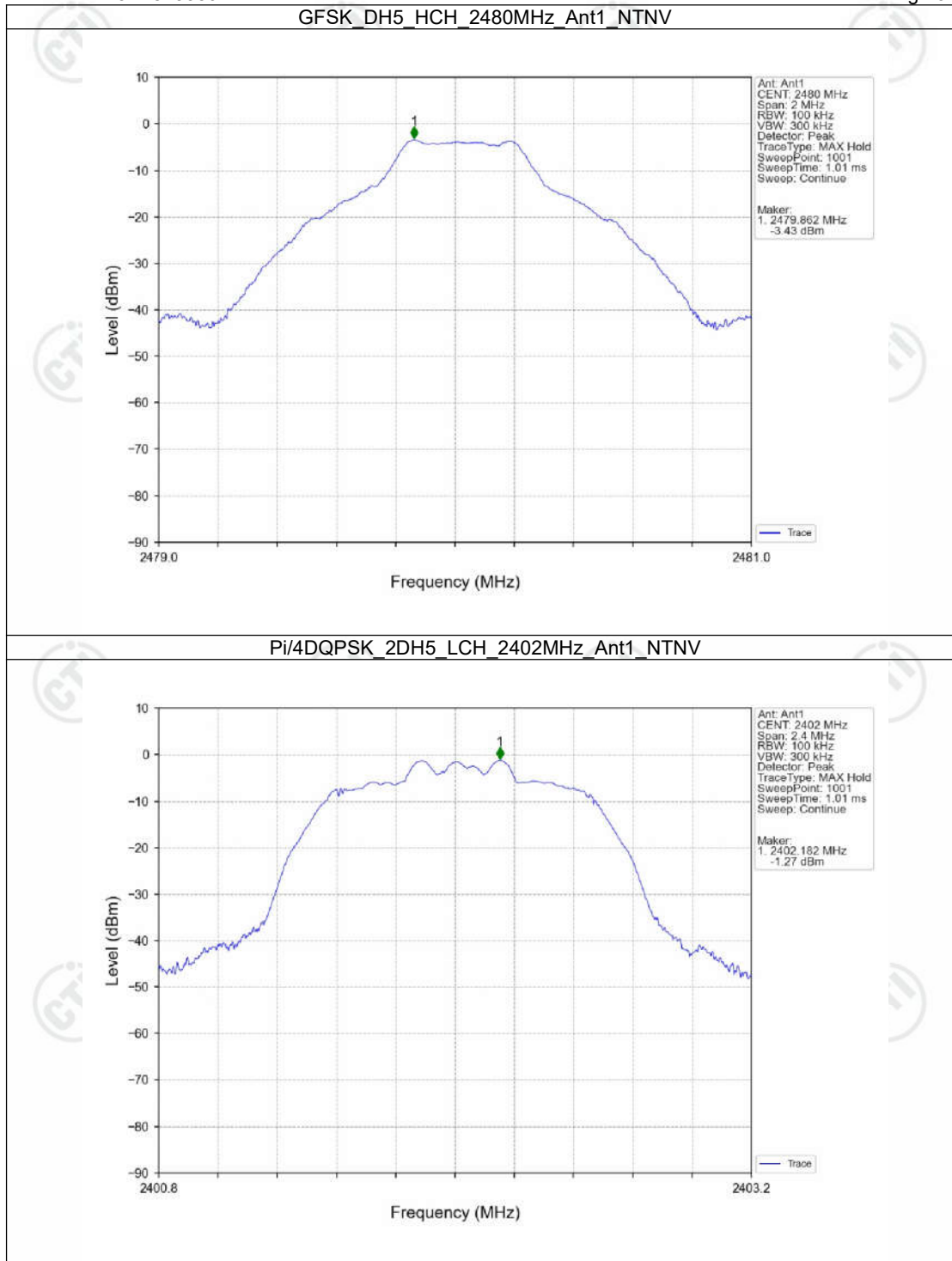
7.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-1.01	-21.01	Pass
		2441	DH5	1	-1.01	-21.01	Pass
		2480	DH5	1	-1.01	-21.01	Pass
		HOPP	DH5	1	-1.01	-21.01	Pass
					-1.01	-21.01	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-1.27	-21.27	Pass
		2441	2DH5	1	-1.27	-21.27	Pass
		2480	2DH5	1	-1.27	-21.27	Pass
		HOPP	2DH5	1	-1.27	-21.27	Pass
					-1.27	-21.27	Pass

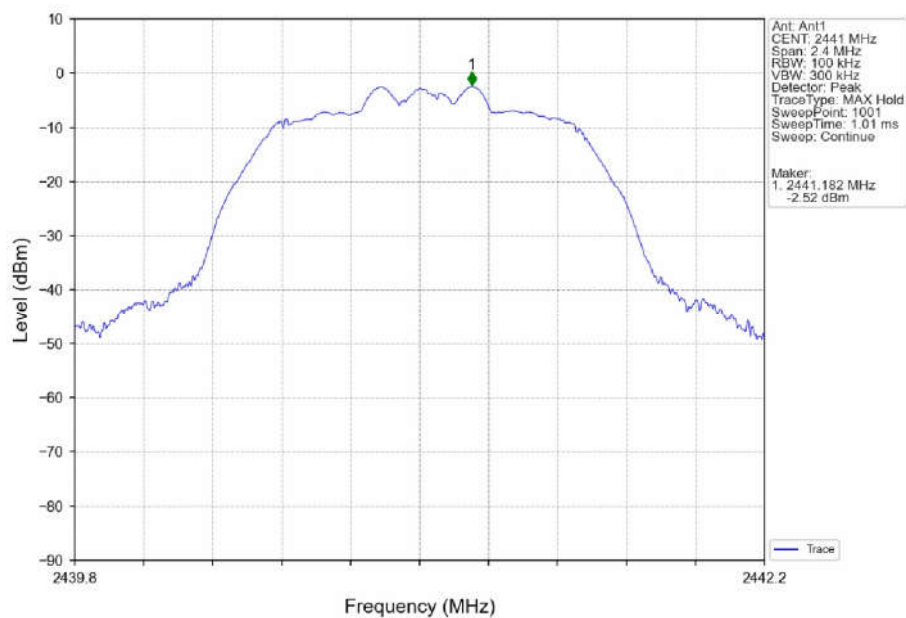
7.2 Test Graph

7.2.1 Ref

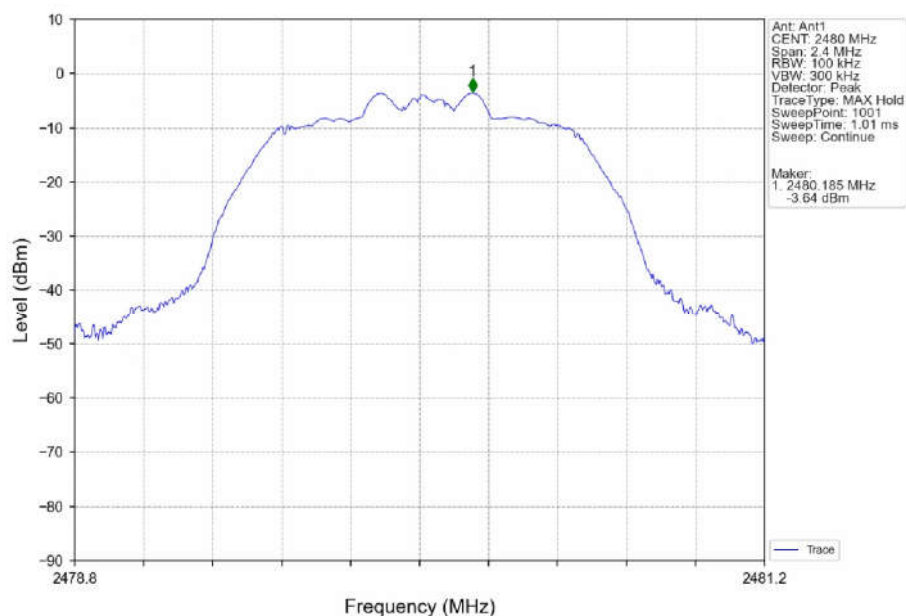




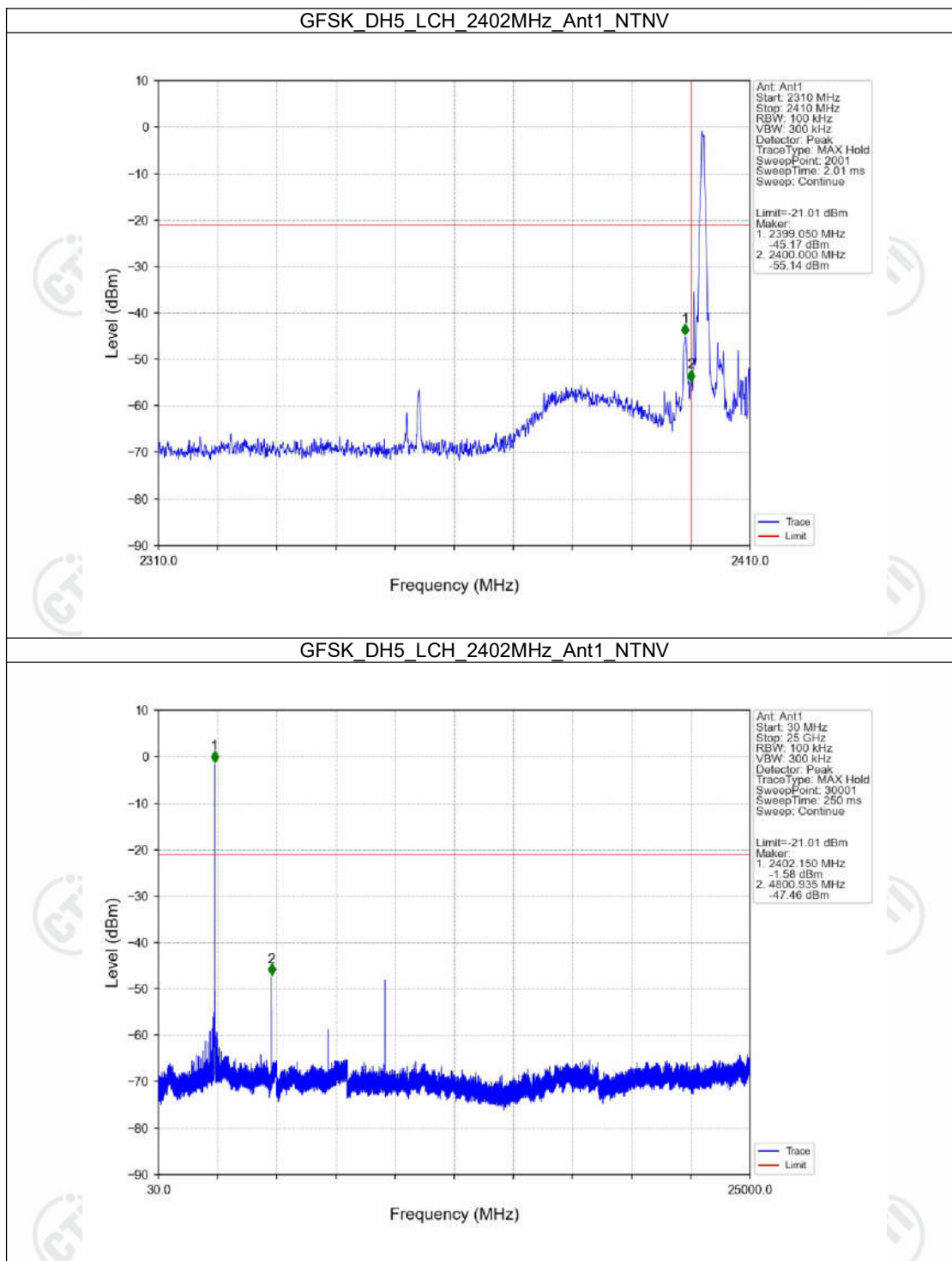
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

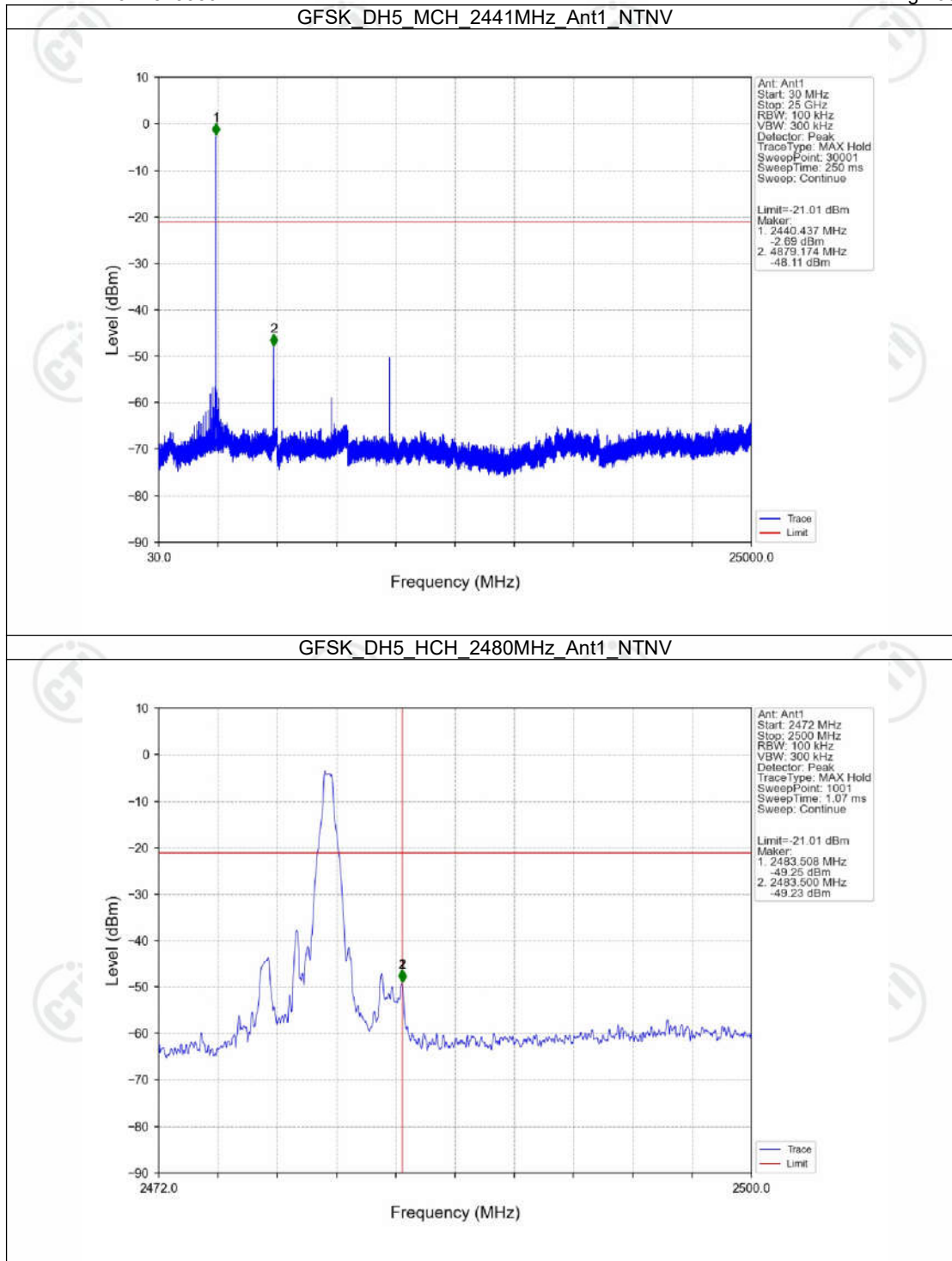


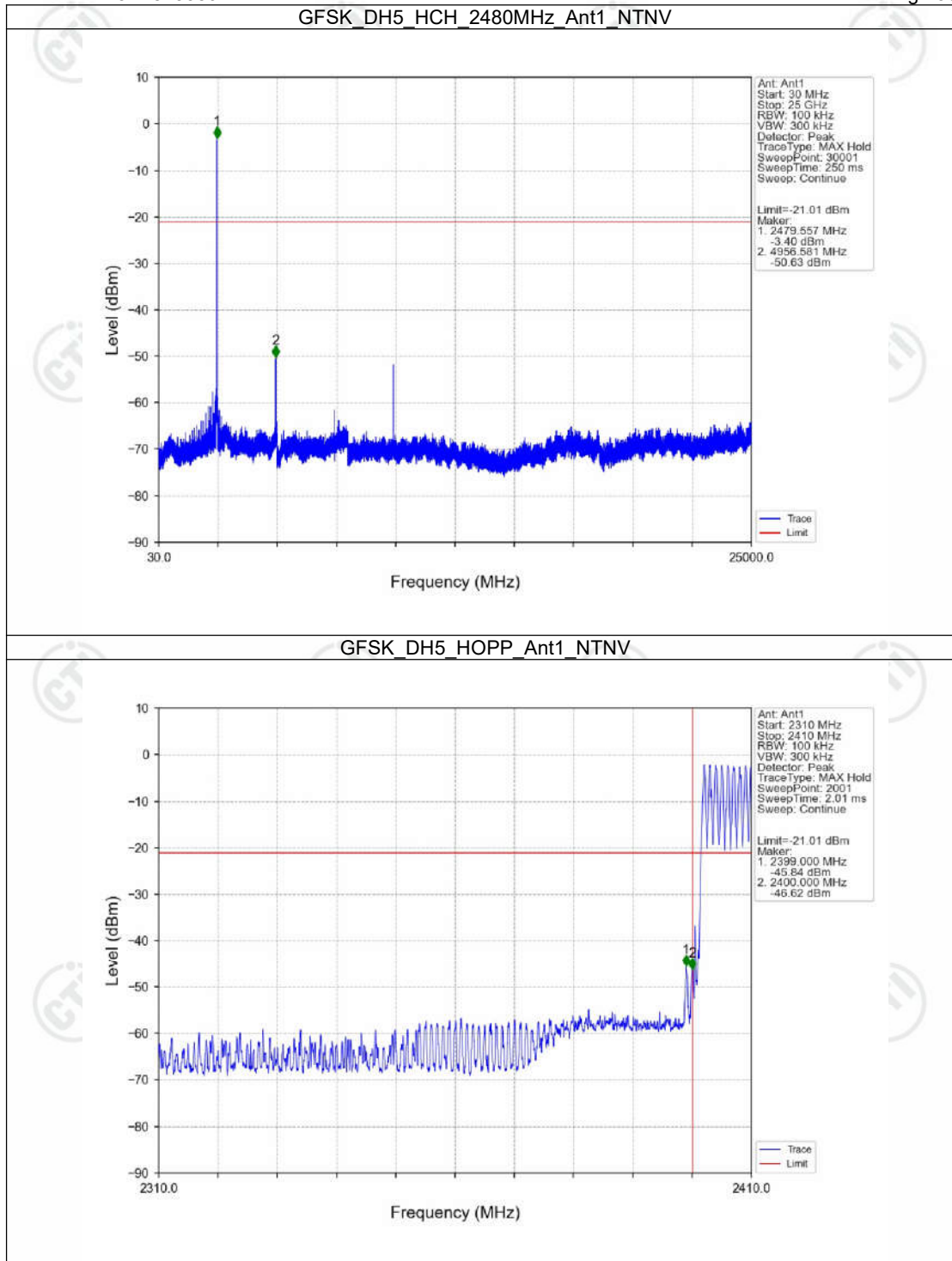
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

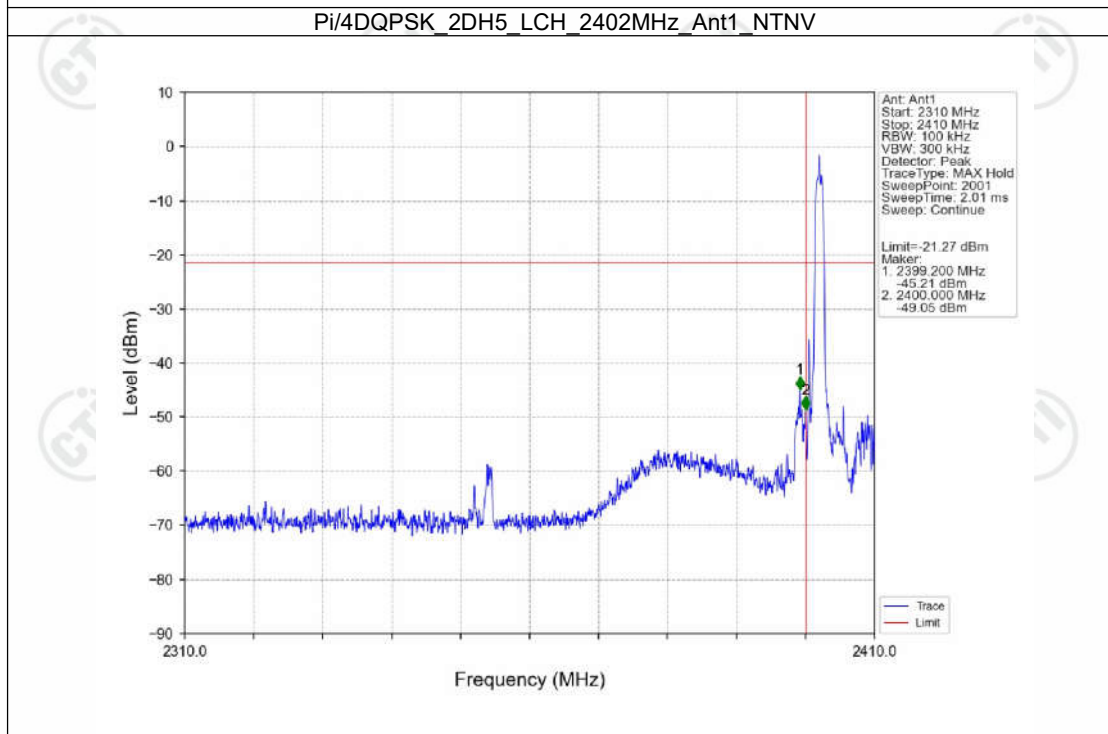
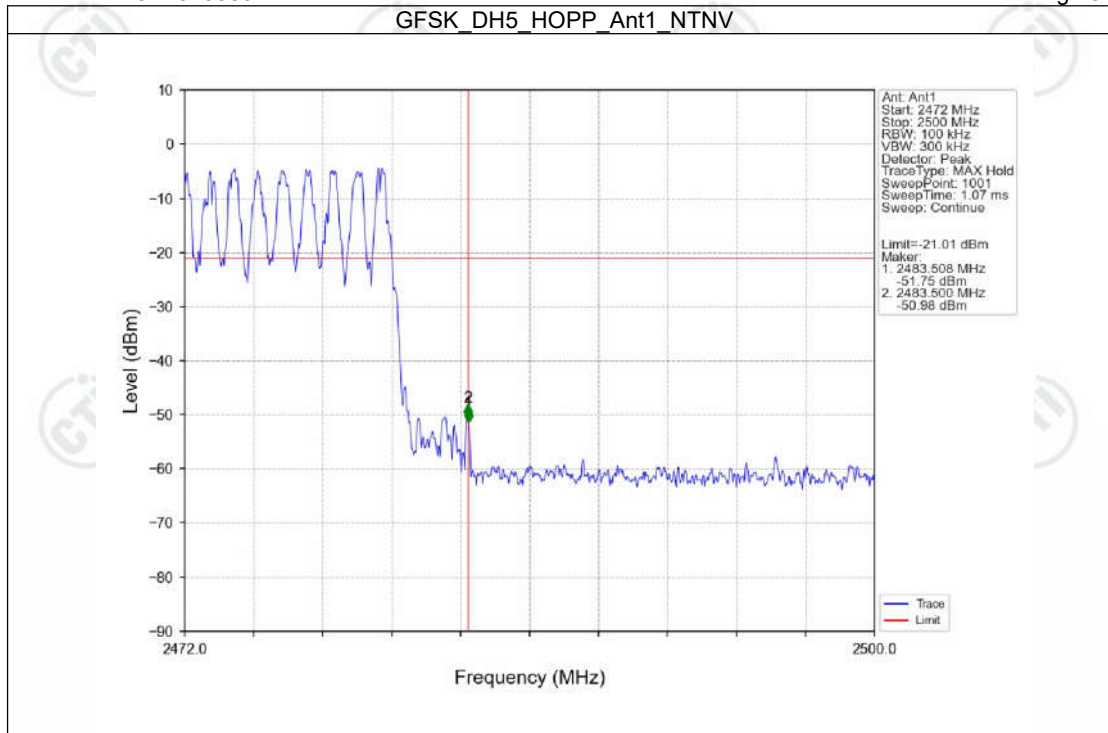


7.2.2 CSE

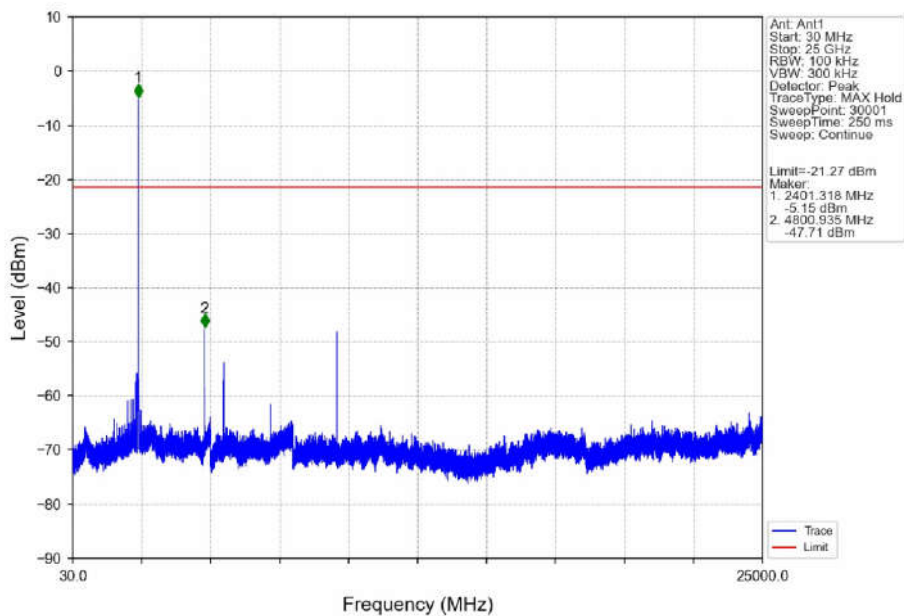




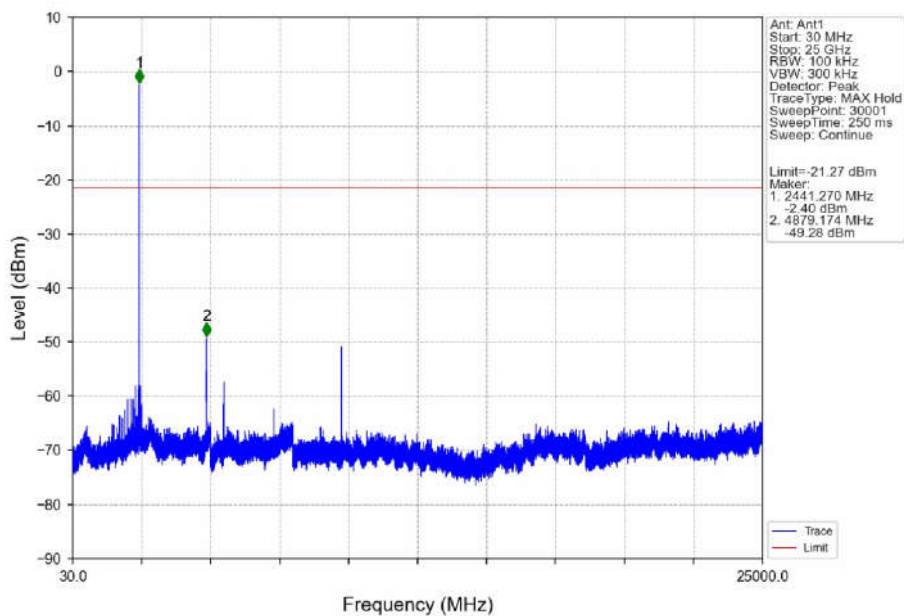


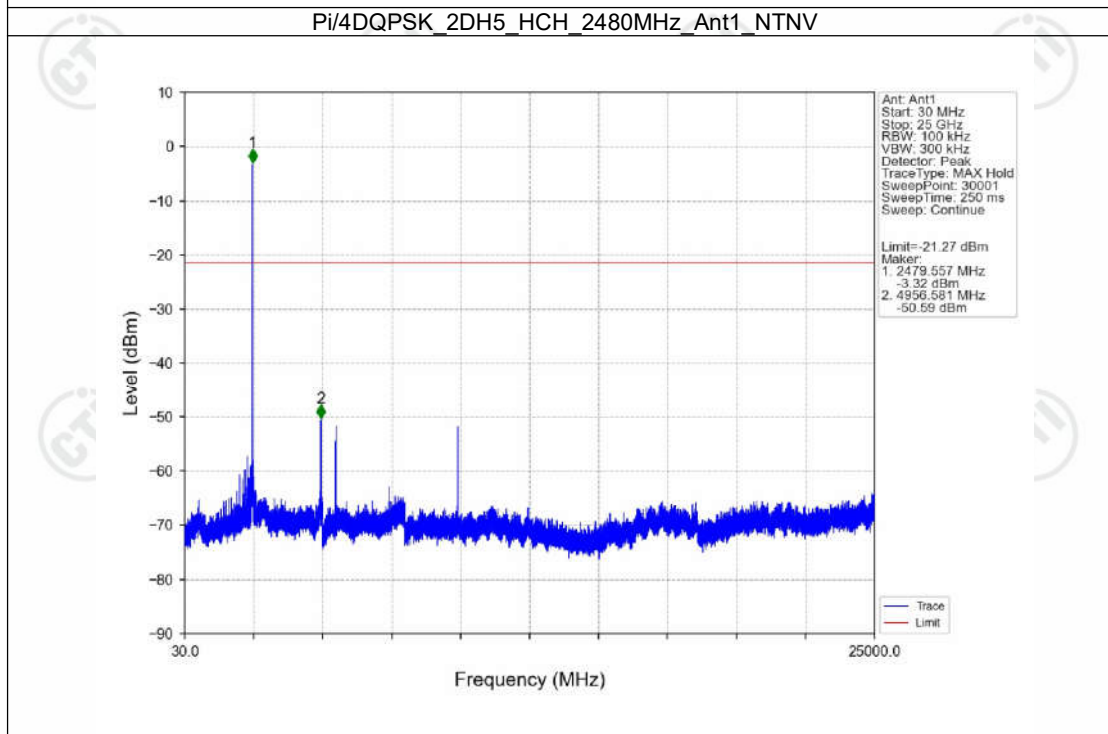
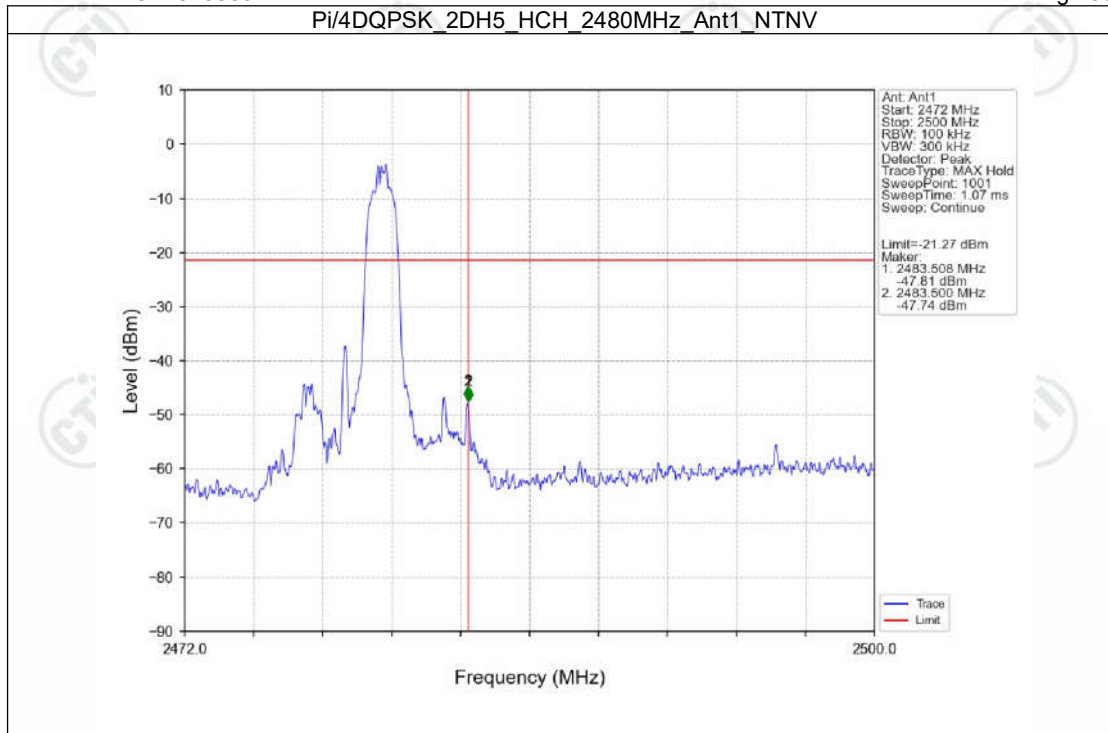


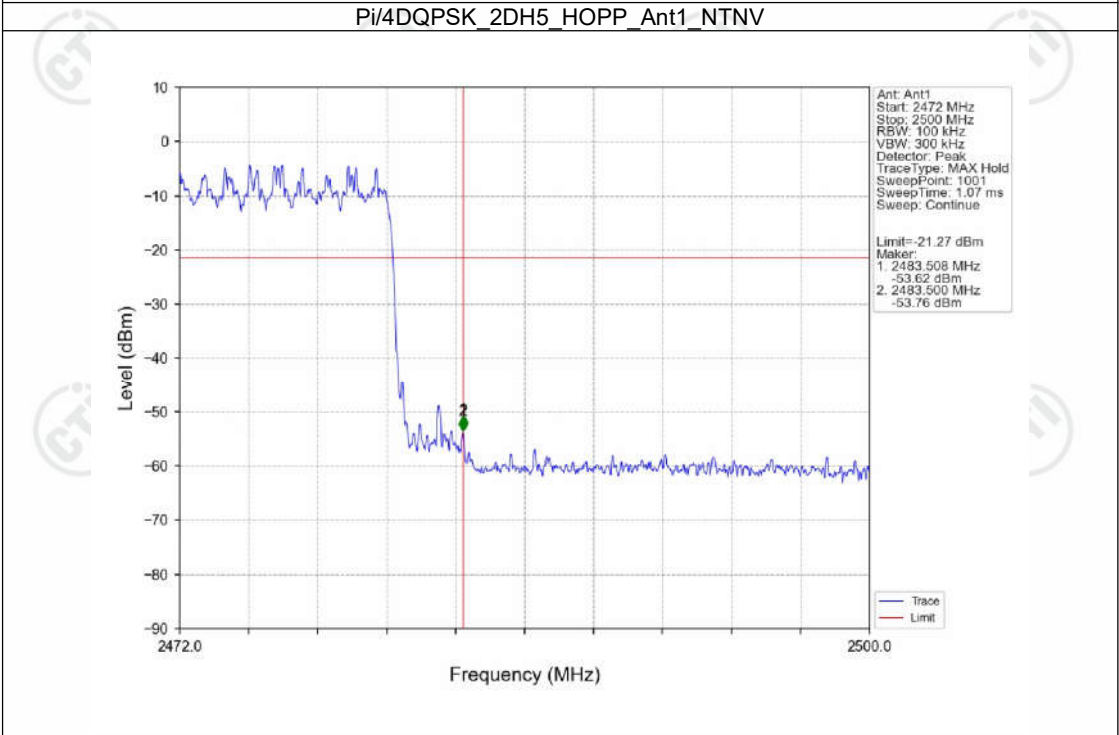
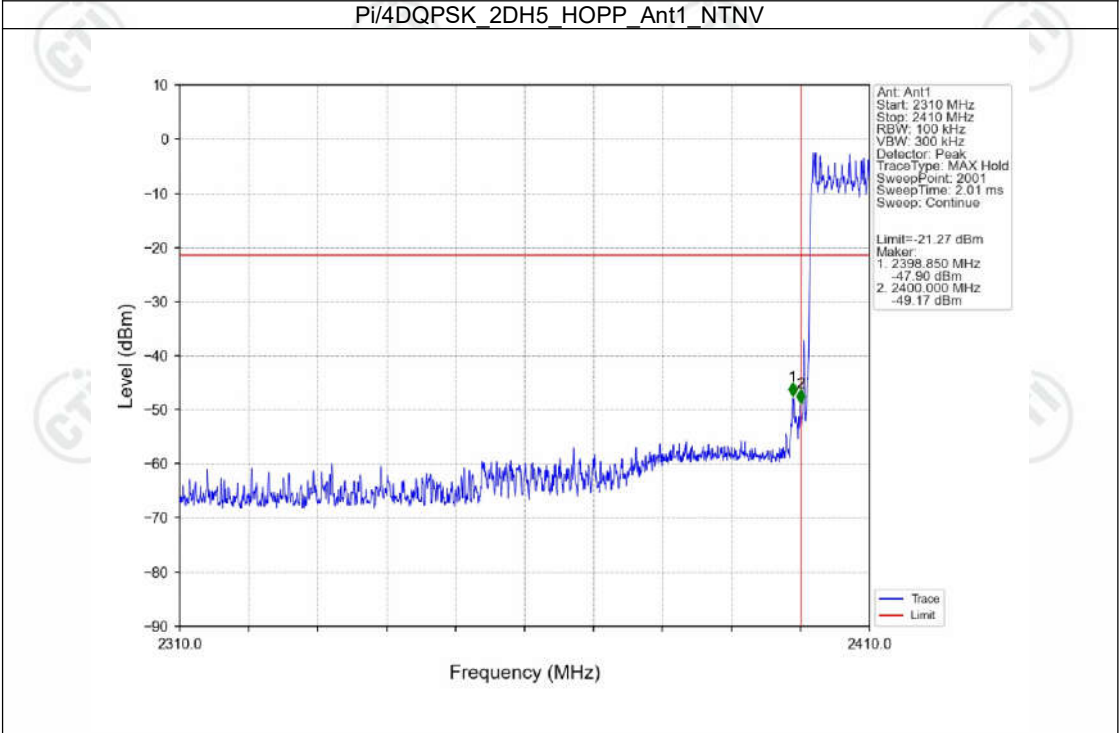
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV







*** End of Report ***