

Appendix: Bluetooth Classic

Content

1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	7
2.1 Test Result	7
2.1.1 OBW	7
2.1.2 20dB BW	7
2.2 Test Graph	8
2.2.1 OBW	8
2.2.2 20dB BW	10
3. Maximum Conducted Output Power	12
3.1 Test Result	12
3.1.1 Power	12
3.2 Test Graph	13
3.2.1 Power	13
4. Carrier Frequency Separation	15
4.1 Test Result	15
4.1.1 Ant1	15
4.2 Test Graph	16

4.2.1 Ant1	16
5. Number of Hopping Frequencies	17
5.1 Test Result	17
5.1.1 HoppNum	17
5.2 Test Graph	18
5.2.1 HoppNum	18
6. Time of Occupancy (Dwell Time)	19
6.1 Test Result	19
6.1.1 Ant1	19
6.2 Test Graph	20
6.2.1 Ant1	20
7. Unwanted Emissions In Non-restricted Frequency Bands	23
7.1 Test Result	23
7.1.1 Ref	23
7.1.2 CSE	23
7.2 Test Graph	24
7.2.1 Ref	24
7.2.2 CSE	26

1. Duty Cycle

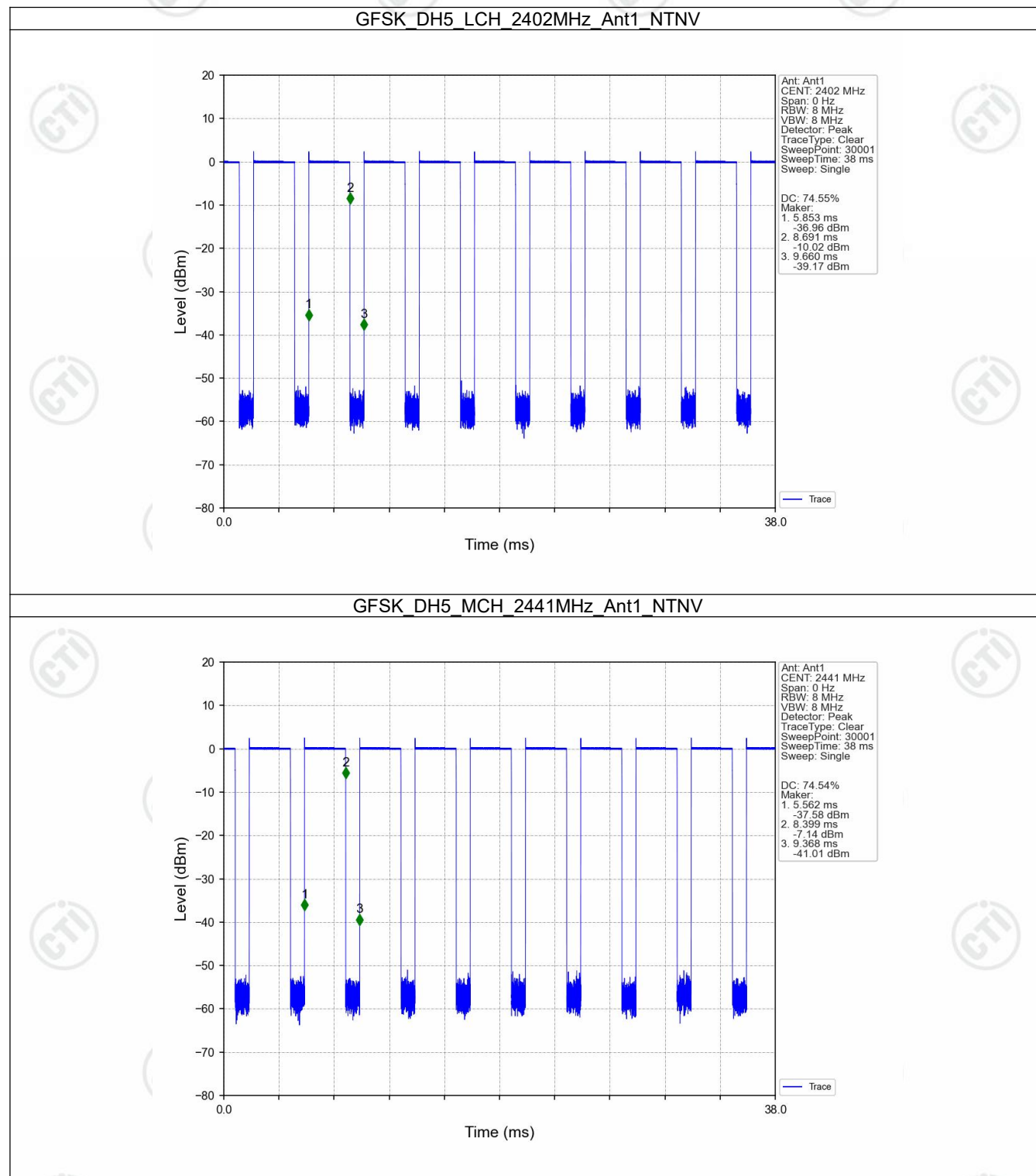
1.1 Test Result

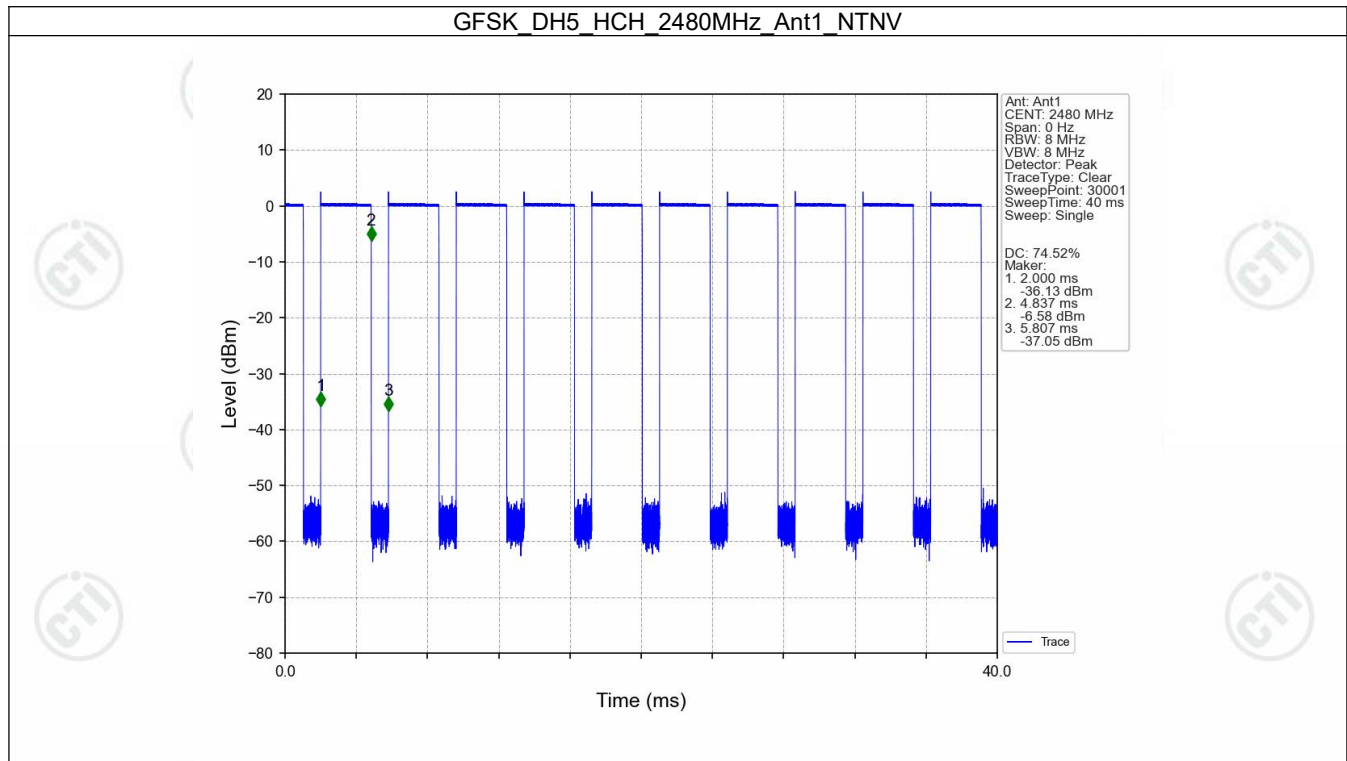
1.1.1 Ant1

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	2.838	3.807	74.55	1.28	0.01
		2441	DH5	2.837	3.806	74.54	1.28	0.01
		2480	DH5	2.837	3.807	74.52	1.28	0.04

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

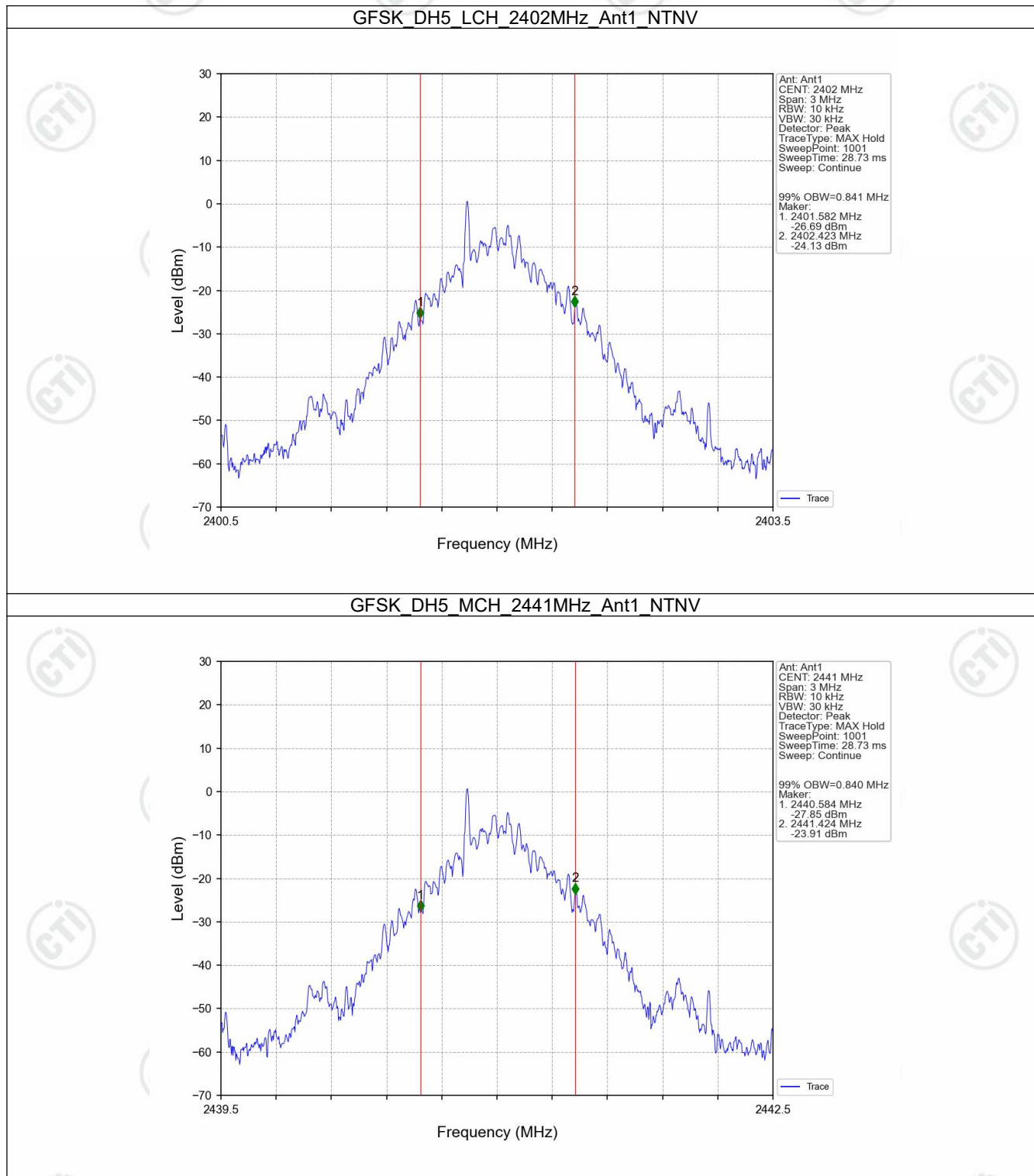
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.841	/	Pass
		2441	DH5	1	0.840	/	Pass
		2480	DH5	1	0.838	/	Pass

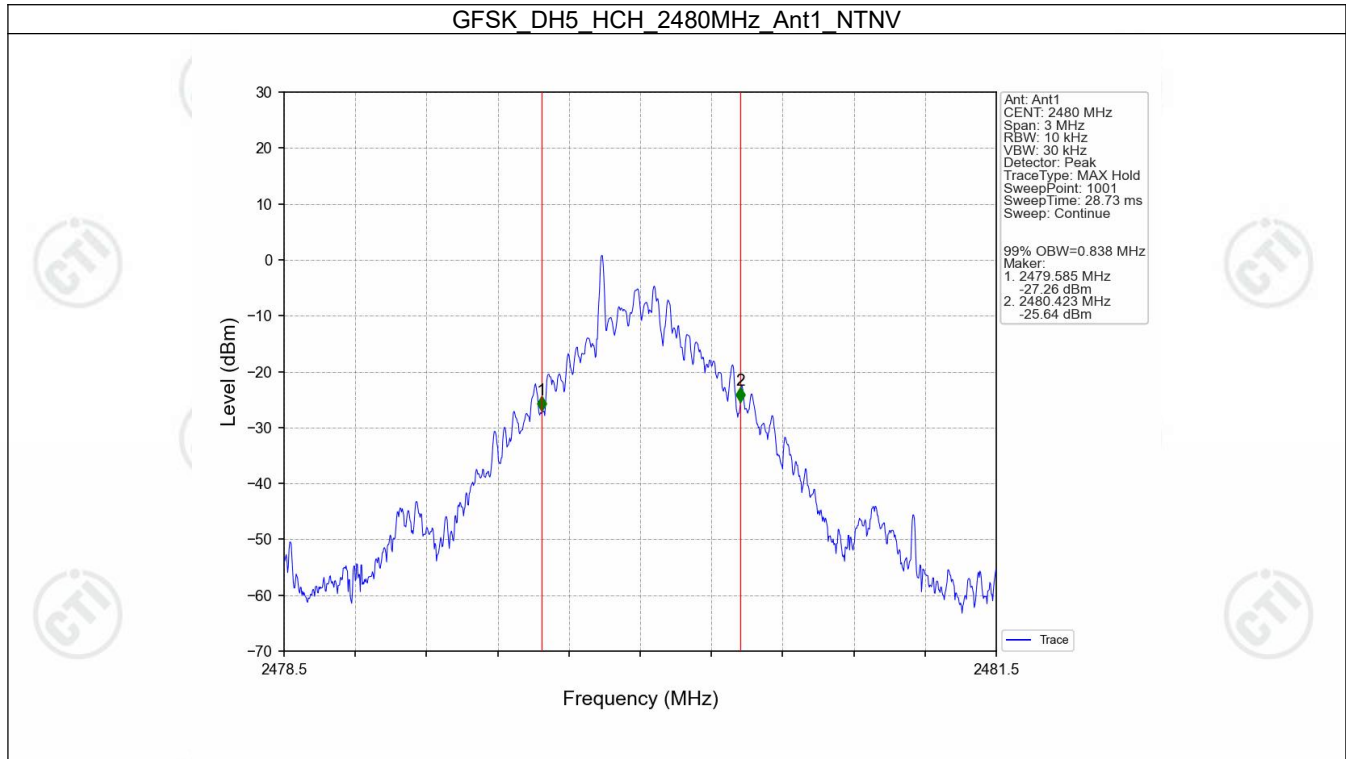
2.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.702	/	Pass
		2441	DH5	1	0.702	/	Pass
		2480	DH5	1	0.703	/	Pass

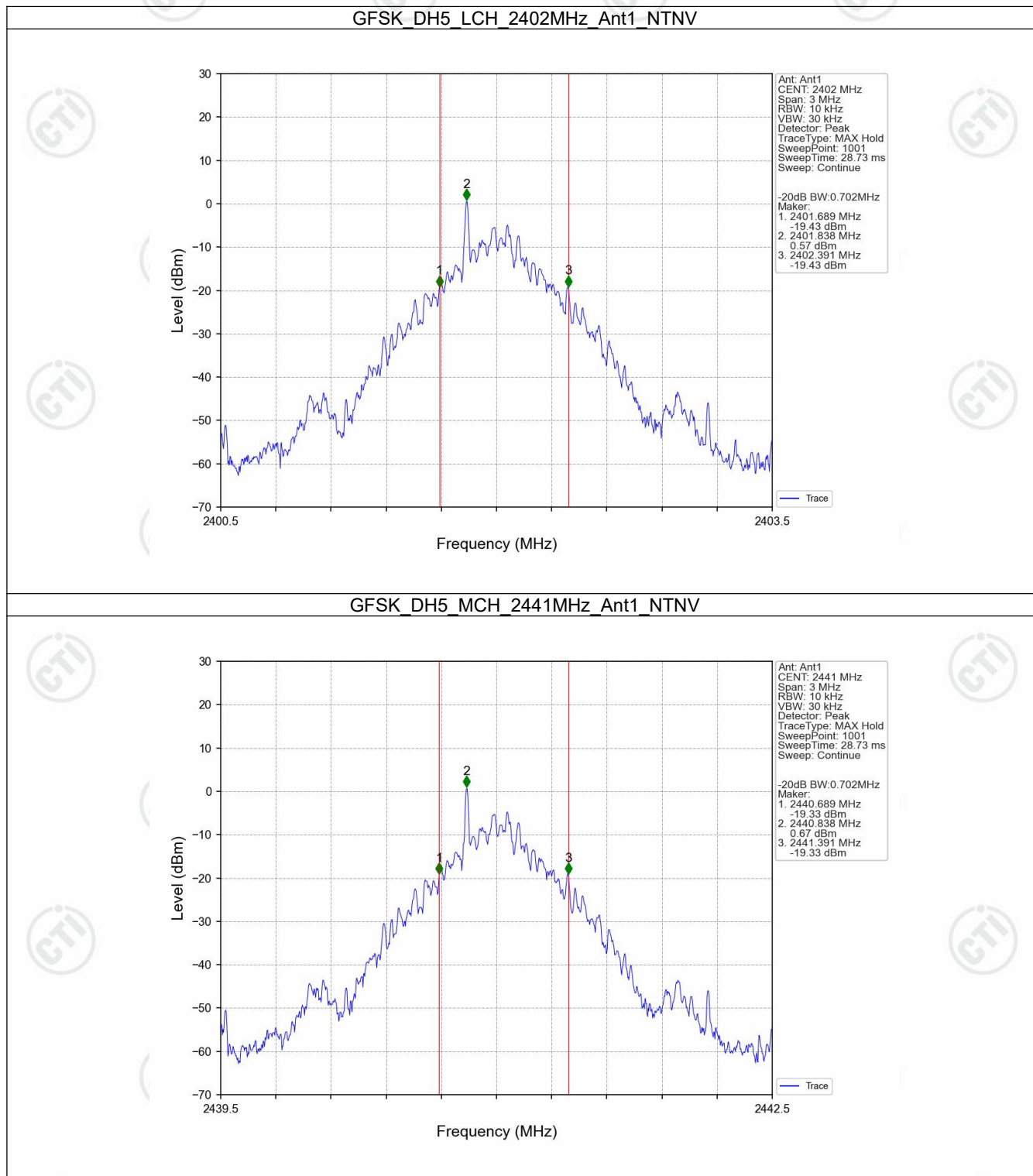
2.2 Test Graph

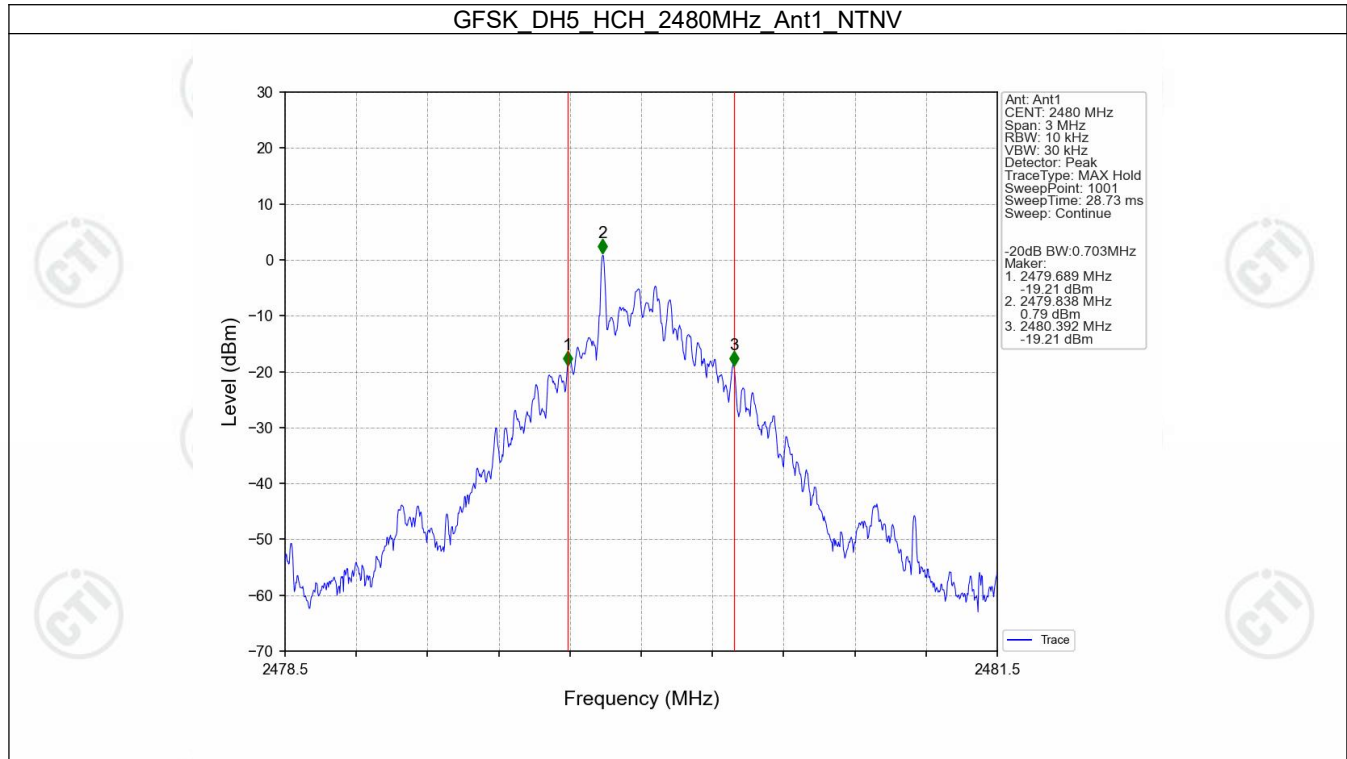
2.2.1 OBW





2.2.2 20dB BW





3. Maximum Conducted Output Power

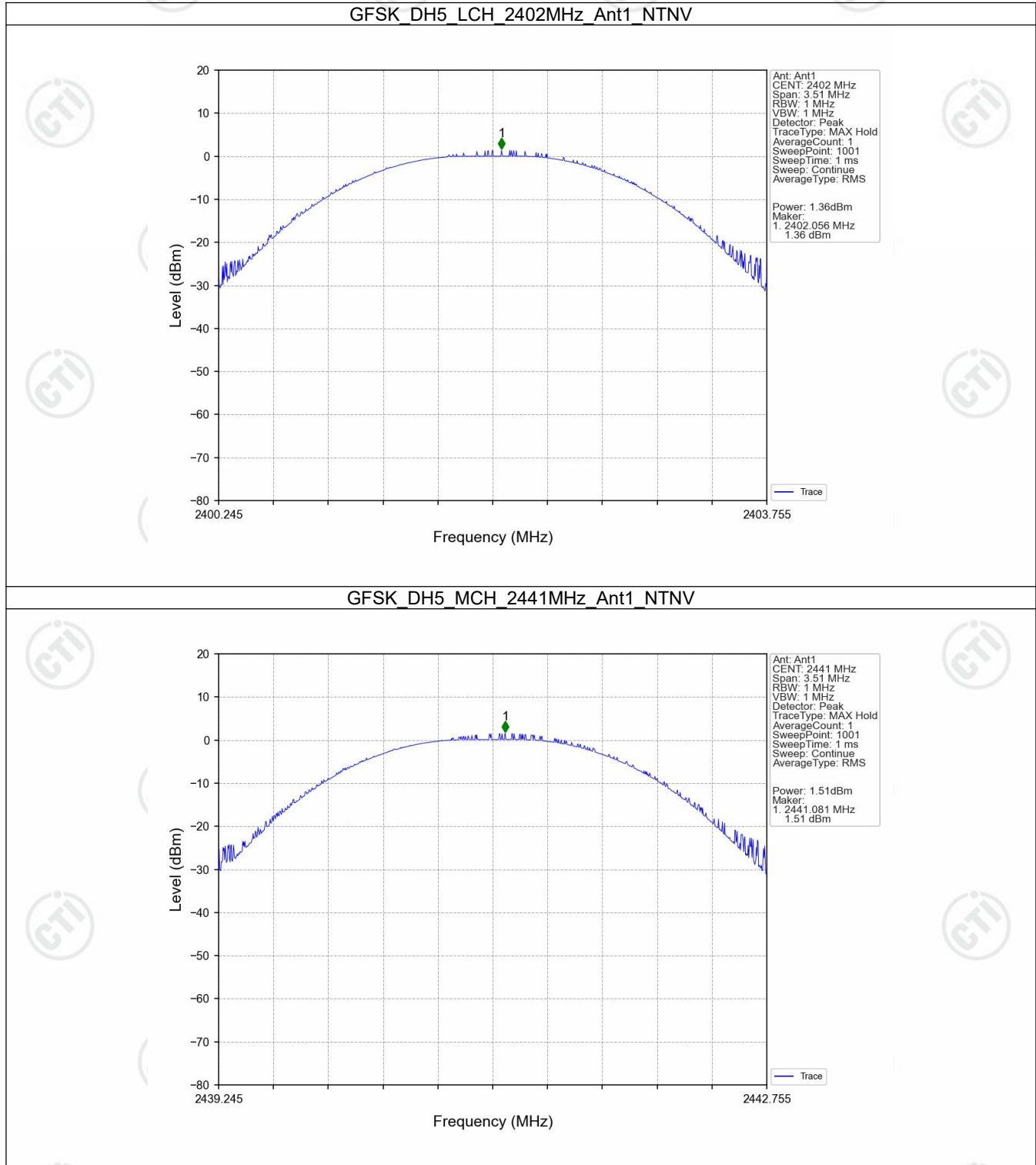
3.1 Test Result

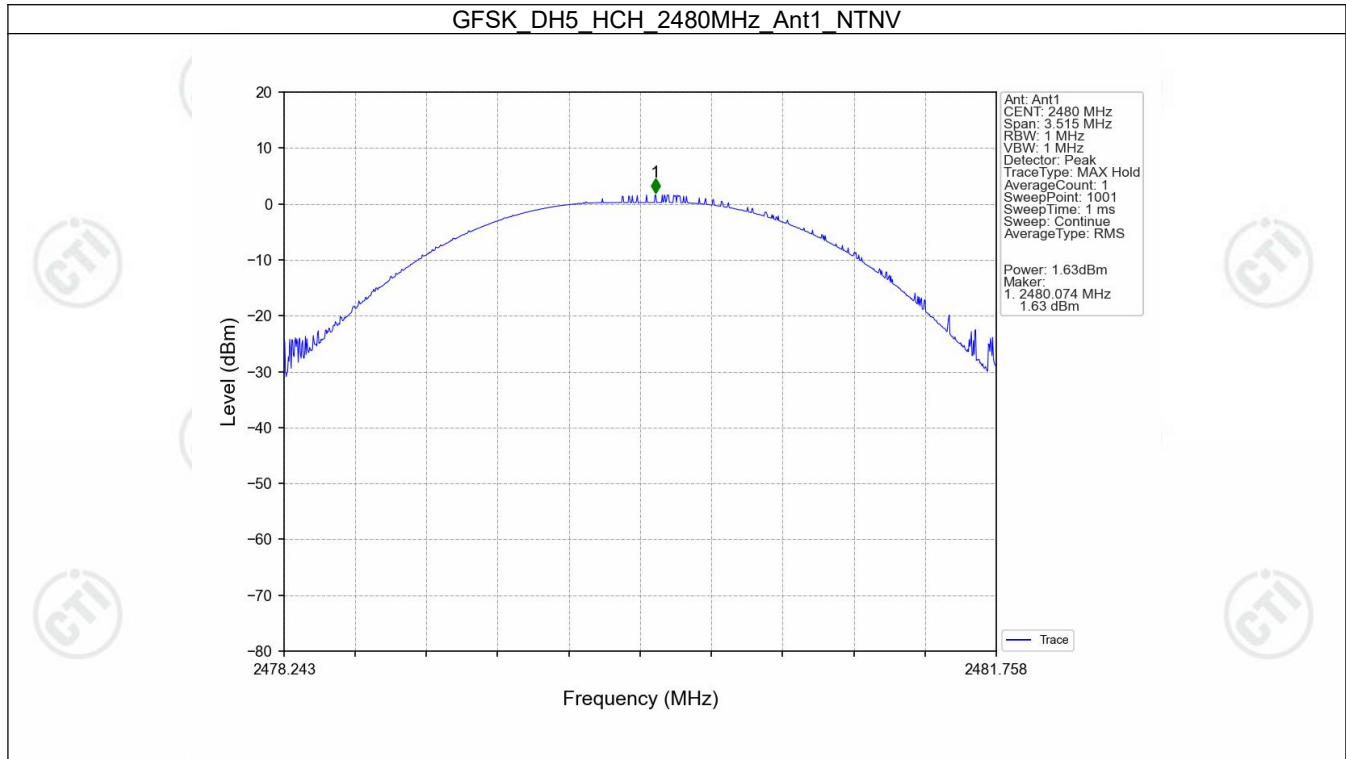
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.36	<=30	Pass
		2441	DH5	1.51	<=30	Pass
		2480	DH5	1.63	<=30	Pass
Note1: Antenna Gain: Ant1: 2.58dBi;						

3.2 Test Graph

3.2.1 Power





4. Carrier Frequency Separation

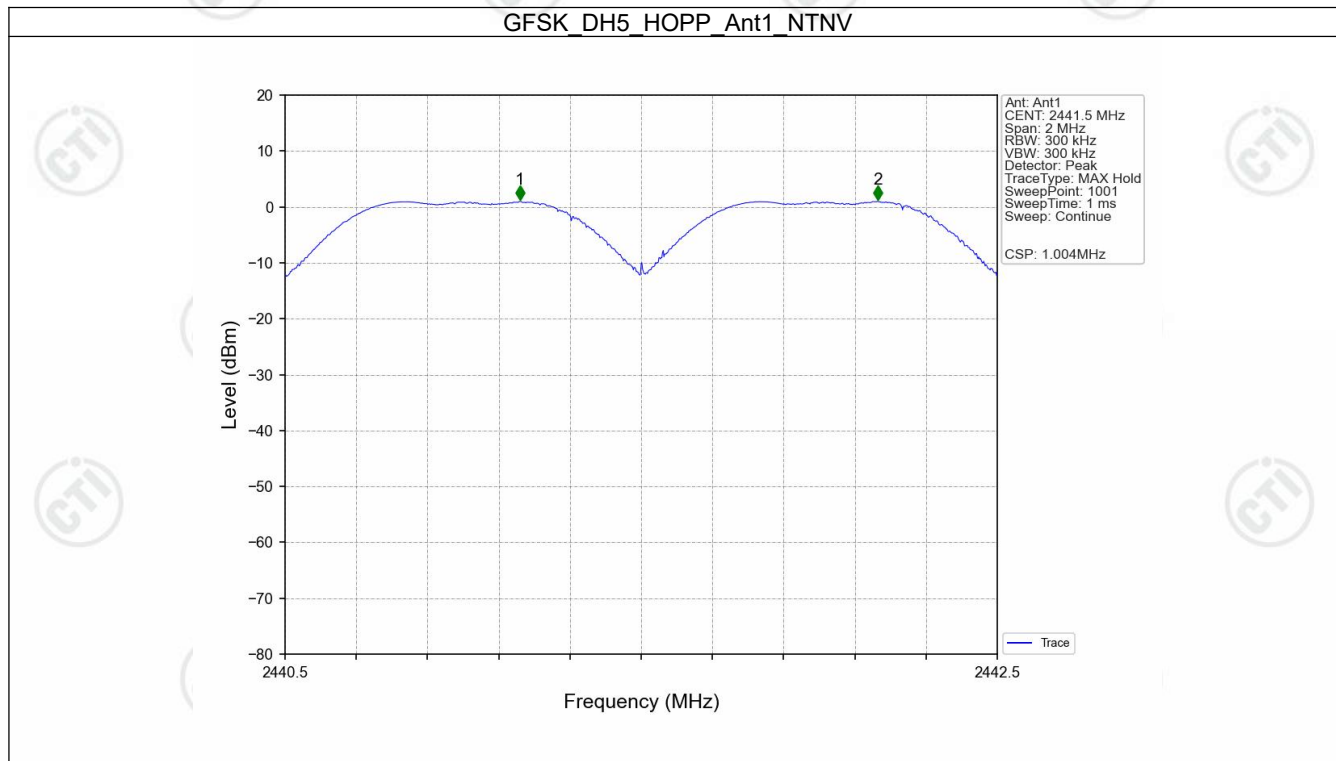
4.1 Test Result

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	1.004	0.703	≥ 0.703	Pass

4.2 Test Graph

4.2.1 Ant1



5. Number of Hopping Frequencies

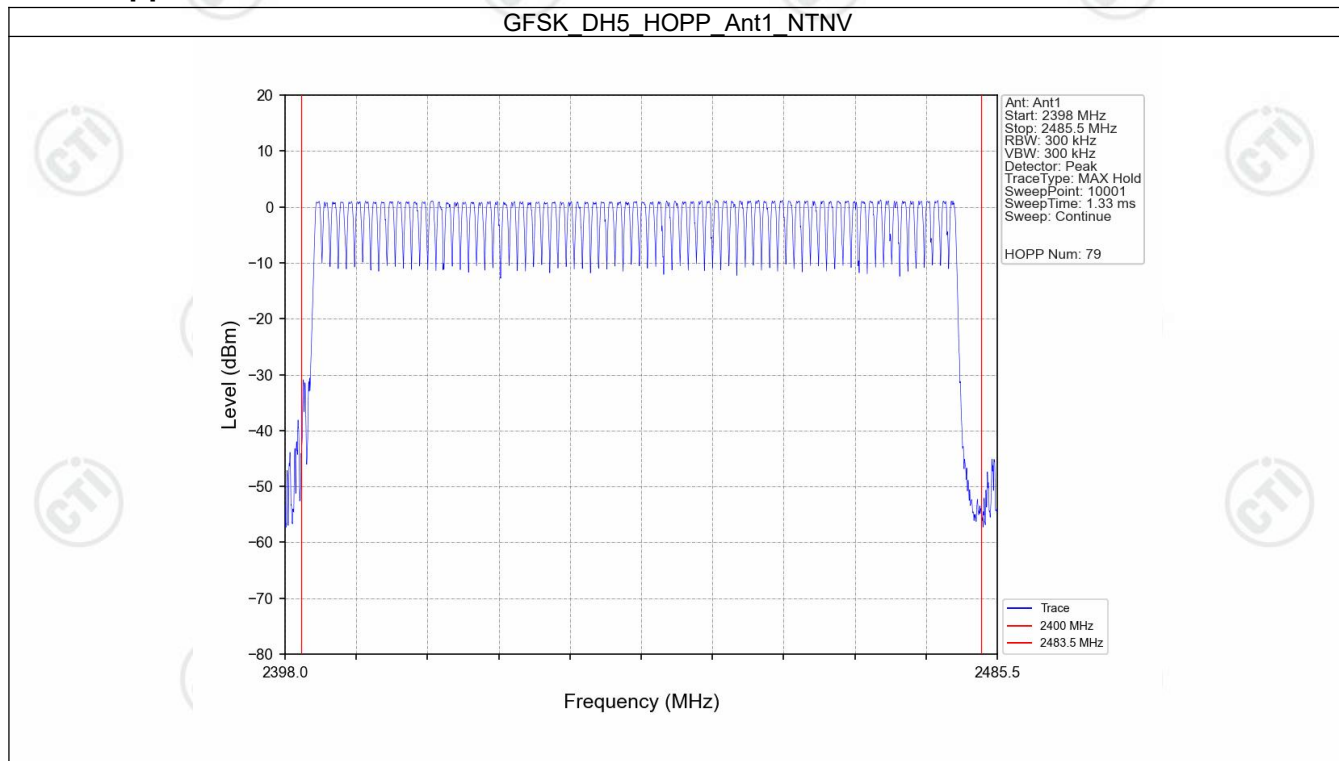
5.1 Test Result

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

5.2 Test Graph

5.2.1 HoppNum



6. Time of Occupancy (Dwell Time)

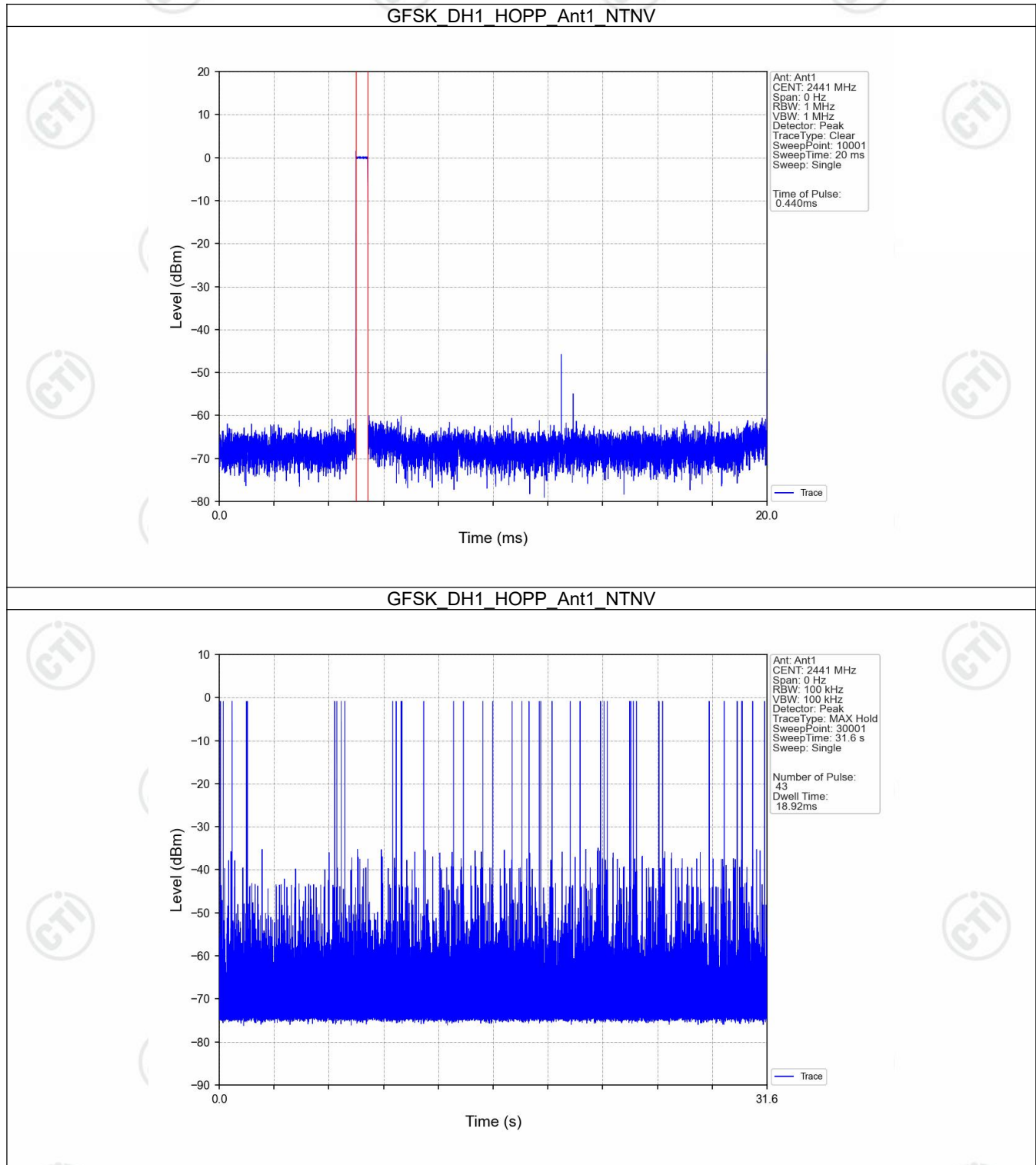
6.1 Test Result

6.1.1 Ant1

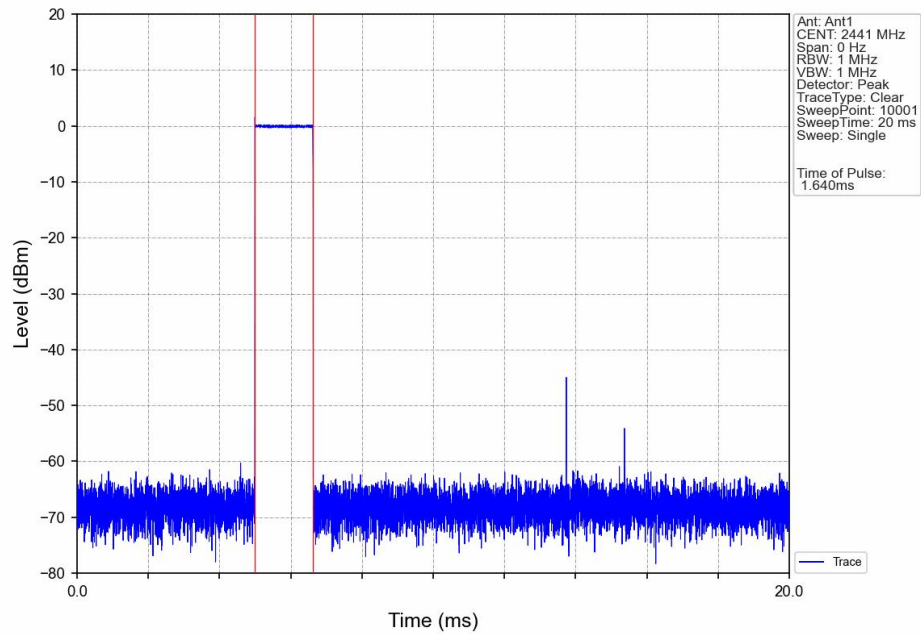
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.440	31.600	43	18.920	<=400	Pass
			DH3	1.640	31.600	44	72.160	<=400	Pass
			DH5	2.840	31.600	49	139.160	<=400	Pass

6.2 Test Graph

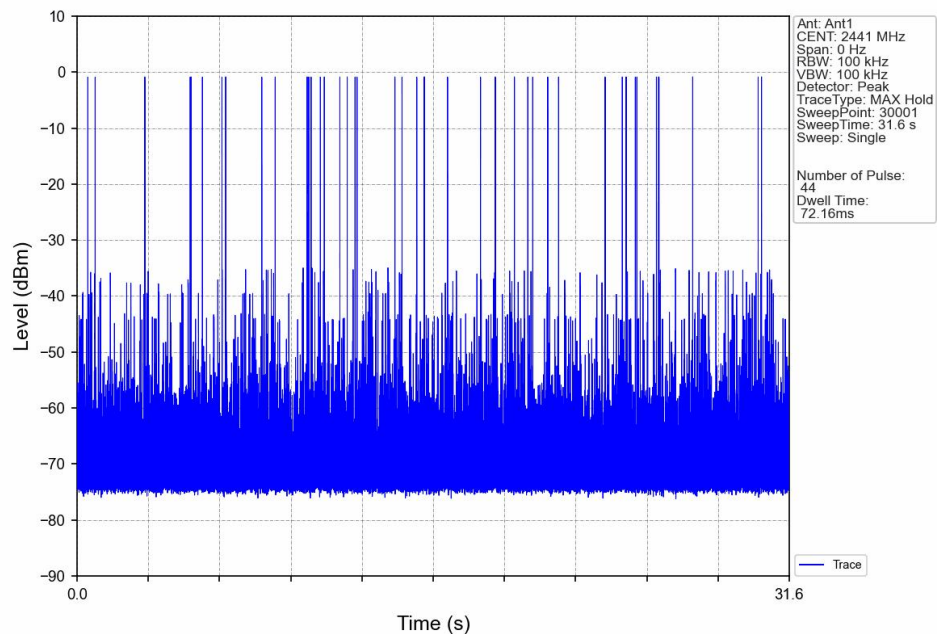
6.2.1 Ant1



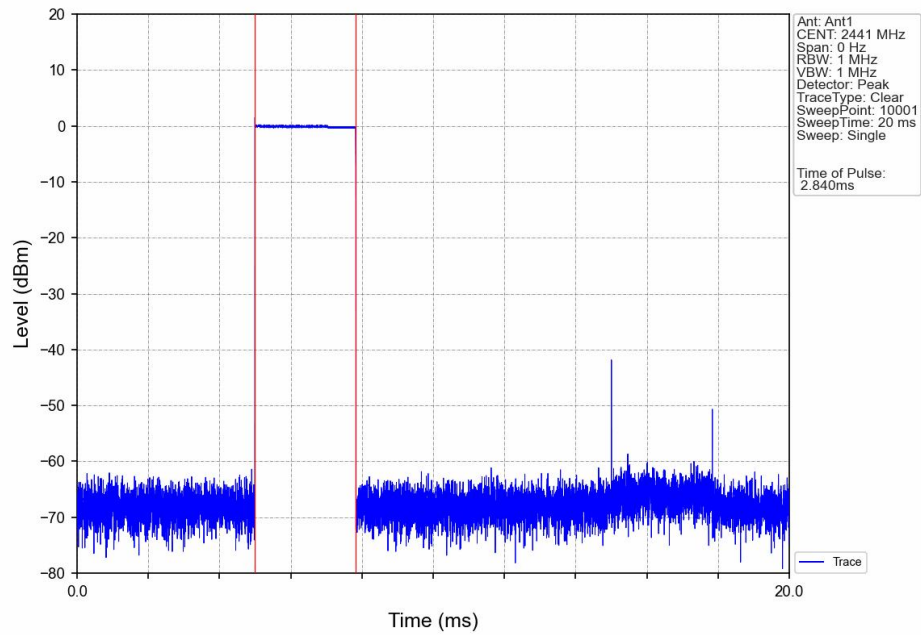
GFSK_DH3_HOPP_Ant1_NTNV



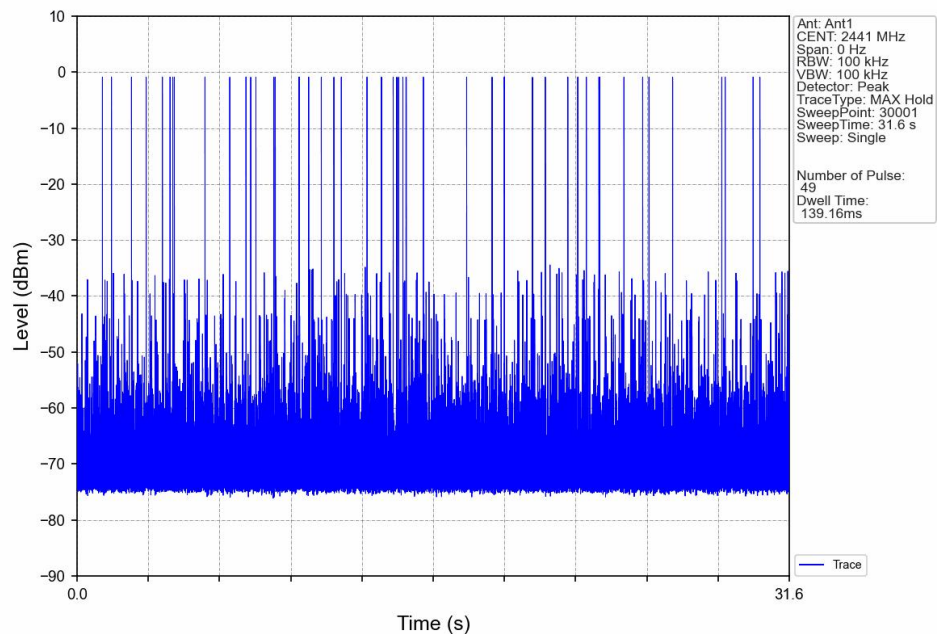
GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

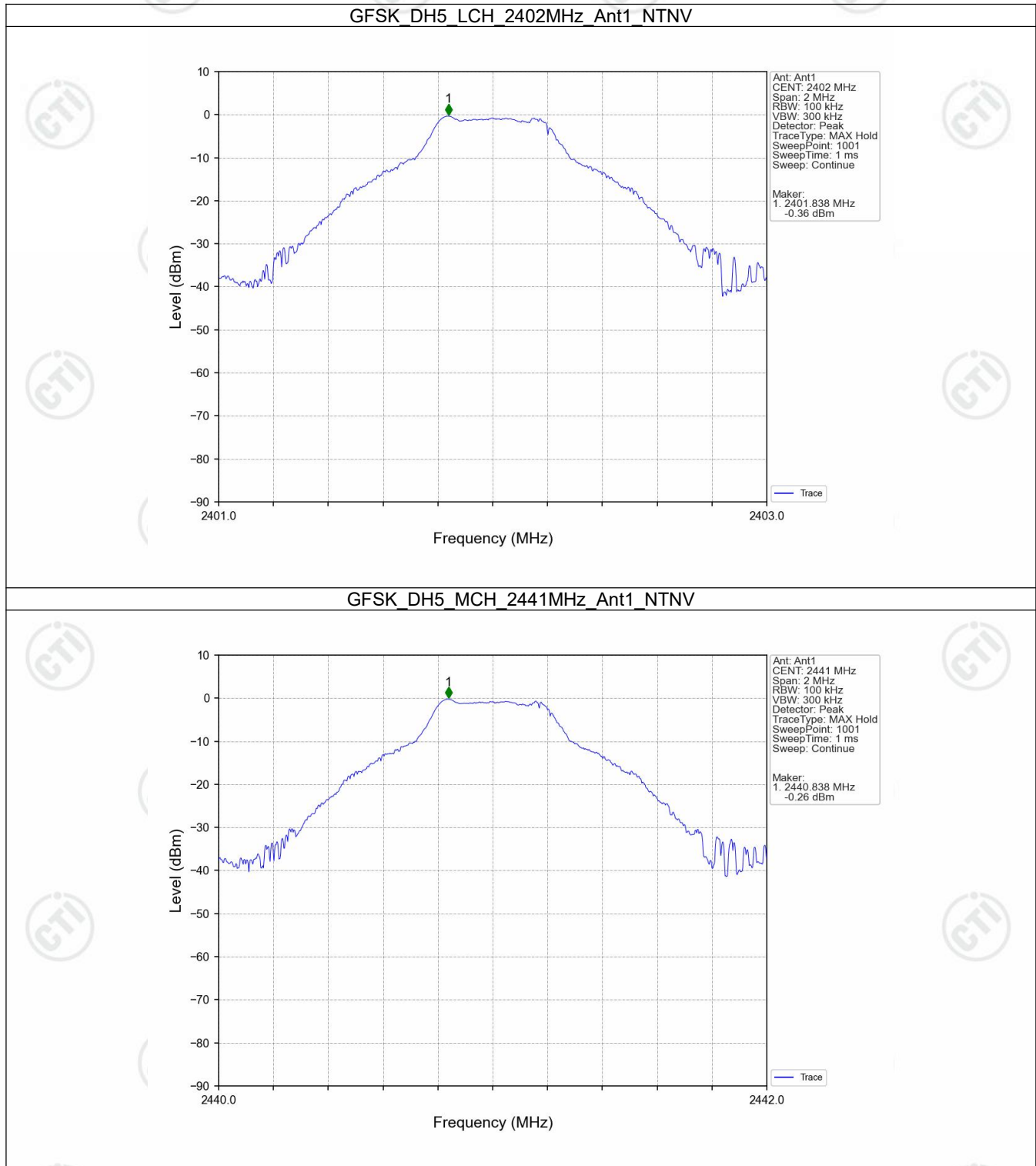
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.36
		2441	DH5	1	-0.26
		2480	DH5	1	-0.14

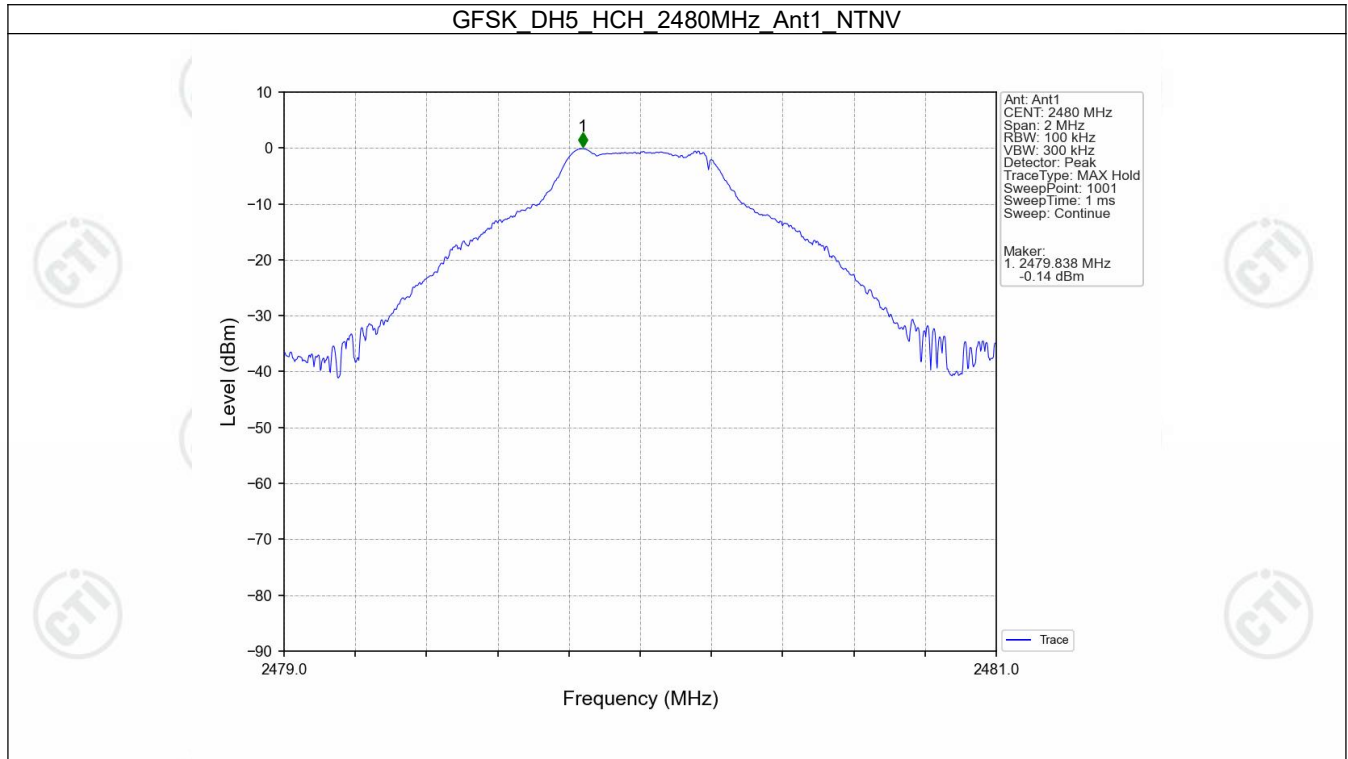
7.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.14	-20.14	Pass
		2441	DH5	1	-0.14	-20.14	Pass
		2480	DH5	1	-0.14	-20.14	Pass
		HOPP	DH5	1	-0.14	-20.14	Pass
					-0.14	-20.14	Pass

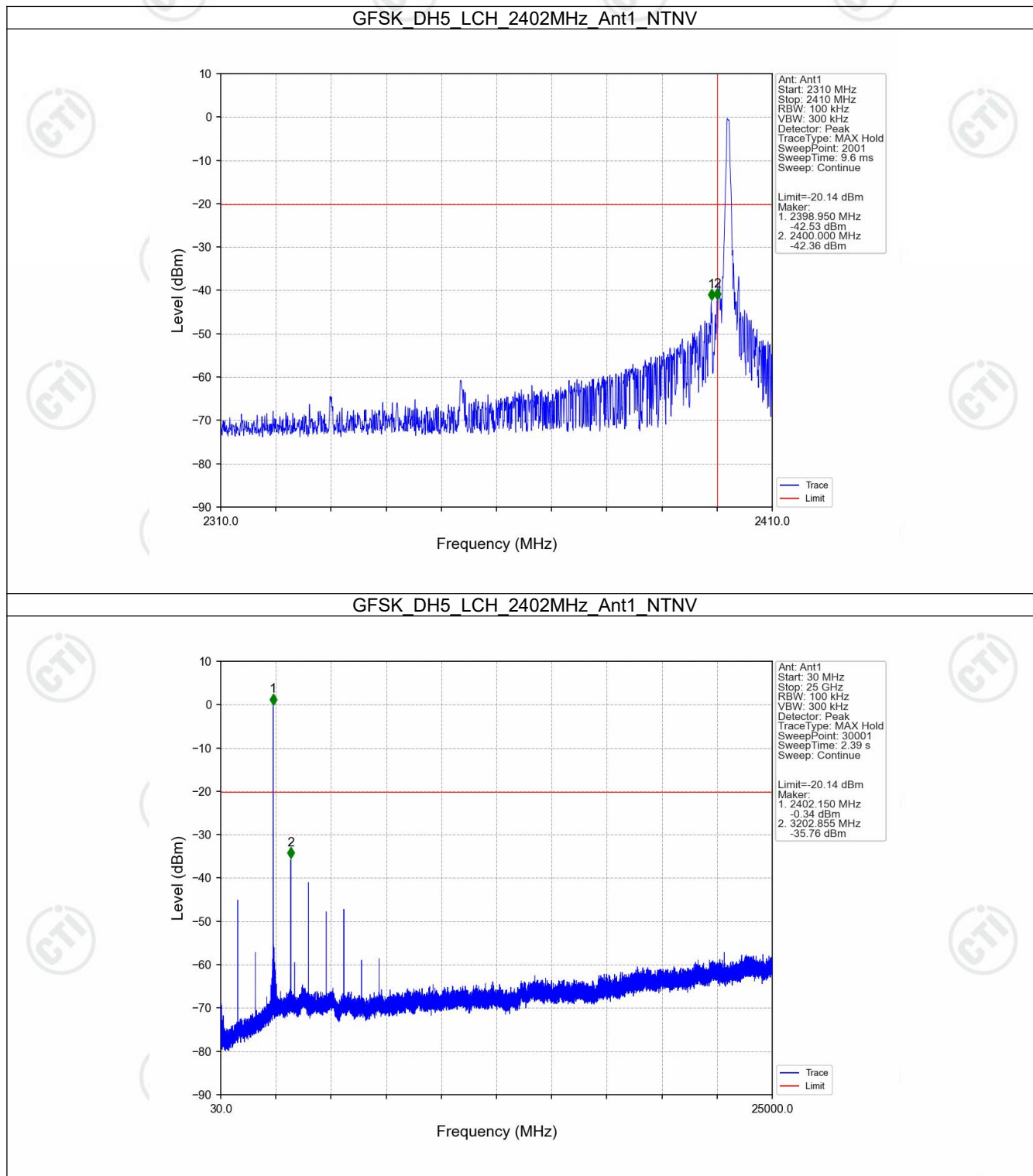
7.2 Test Graph

7.2.1 Ref

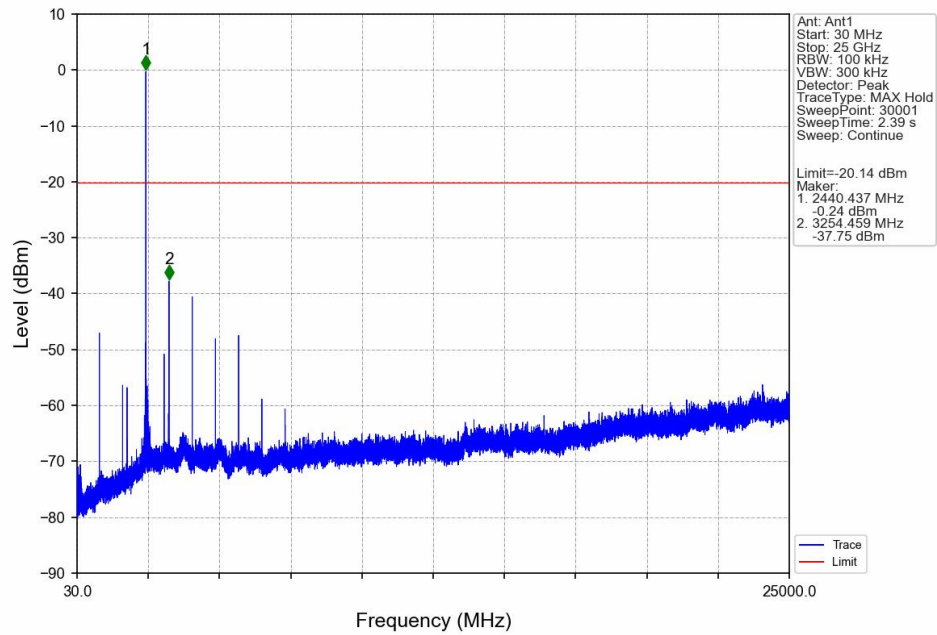




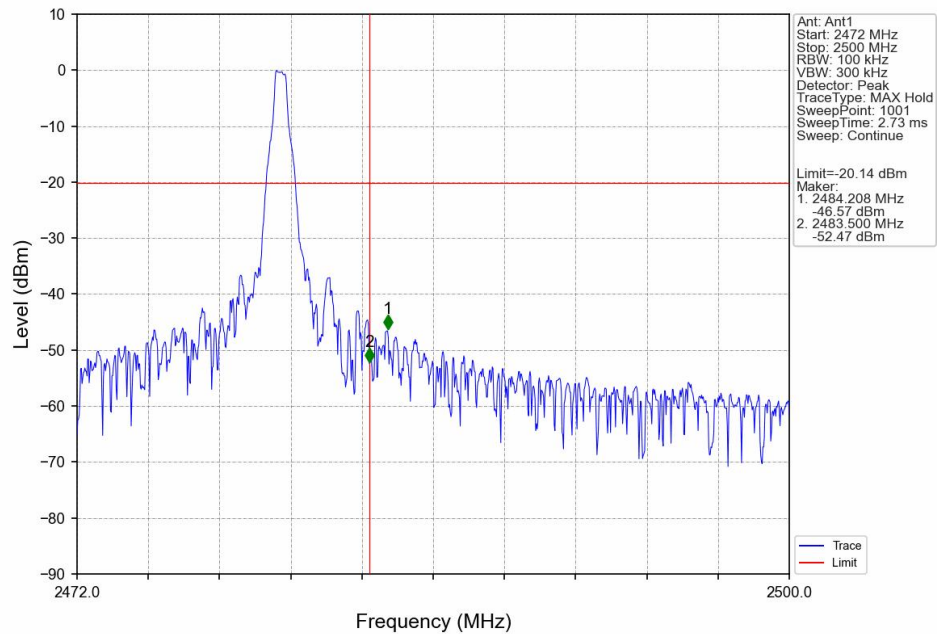
7.2.2 CSE



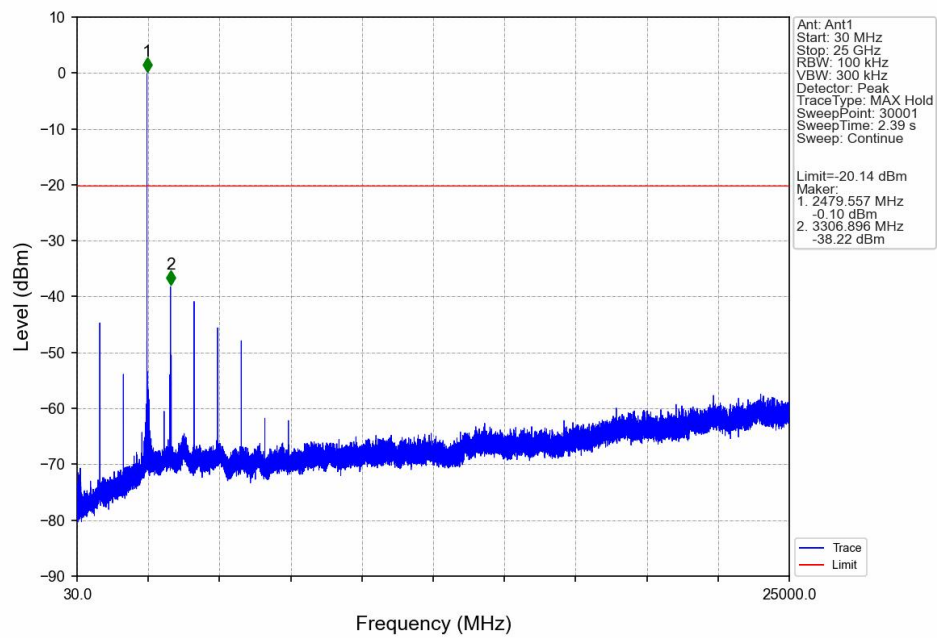
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



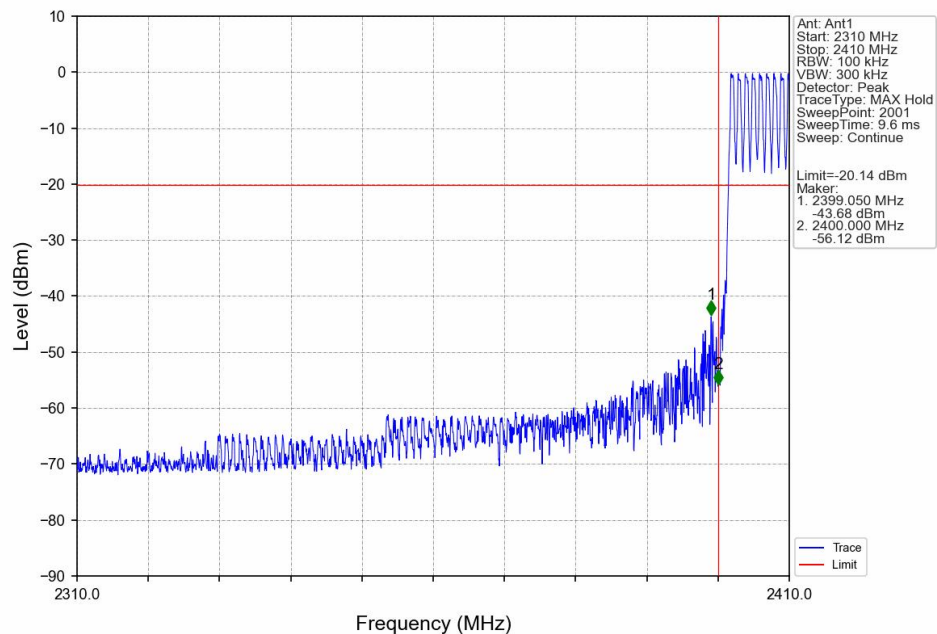
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

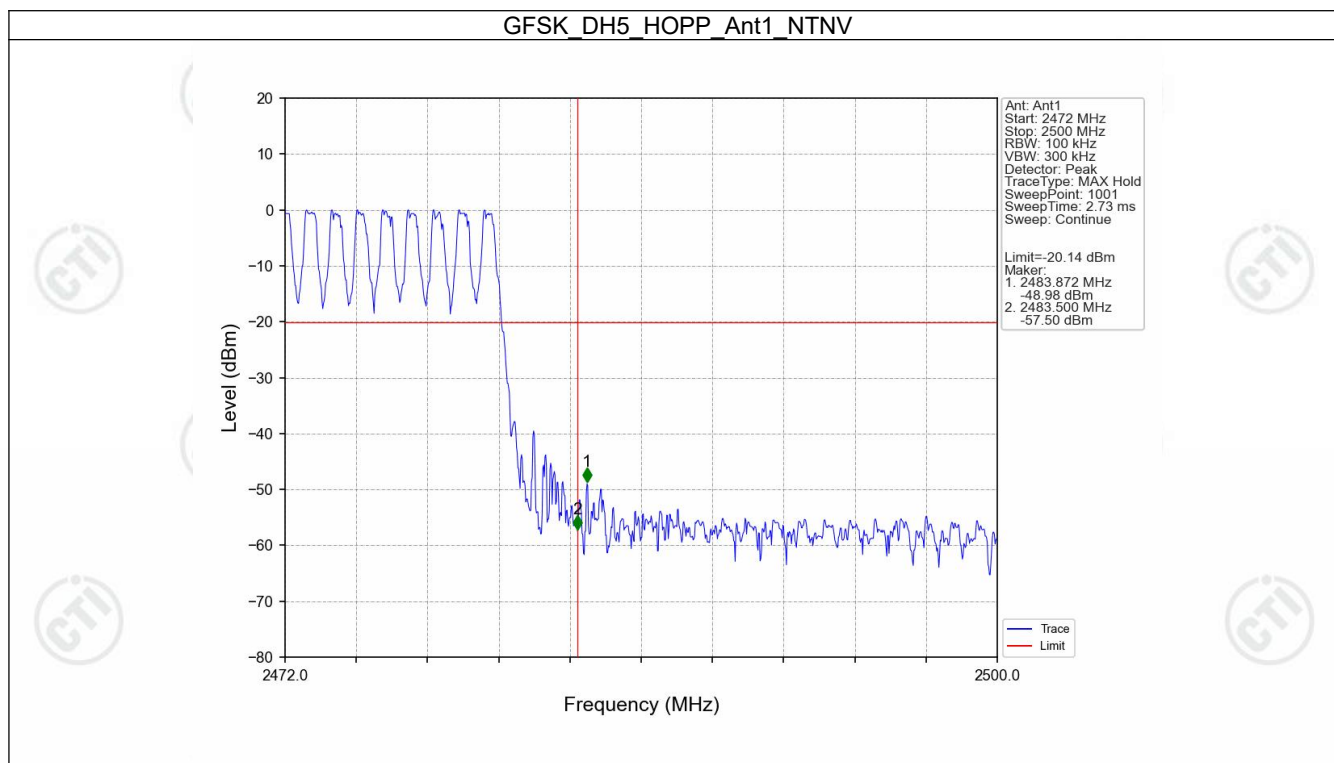


GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV





*** End of Report ***