

Appendix: Bluetooth Classic

Contents

Appendix: Bluetooth Classic	1
Contents	2
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	10
2.1 Test Result	10
2.1.1 OBW	10
2.1.2 20dB BW	10
2.2 Test Graph	11
2.2.1 OBW	11
2.2.2 20dB BW	16
3. Maximum Conducted Output Power	21
3.1 Test Result	21
3.1.1 Power	21
3.2 Test Graph	22
3.2.1 Power	22
4. Carrier Frequency Separation	27
4.1 Test Result	27
4.1.1 Ant1	27
4.2 Test Graph	28
4.2.1 Ant1	28
5. Number of Hopping Frequencies	30

5.1 Test Result	30
5.1.1 HoppNum	30
5.2 Test Graph	31
5.2.1 HoppNum	31
6. Time of Occupancy (Dwell Time)	33
6.1 Test Result	33
6.1.1 Ant1	33
6.2 Test Graph	34
6.2.1 Ant1	34
7. Unwanted Emissions In Non-restricted Frequency Bands	43
7.1 Test Result	43
7.1.1 Ref	43
7.1.2 CSE	43
7.2 Test Graph	44
7.2.1 Ref	44
7.2.2 CSE	49

1. Duty Cycle

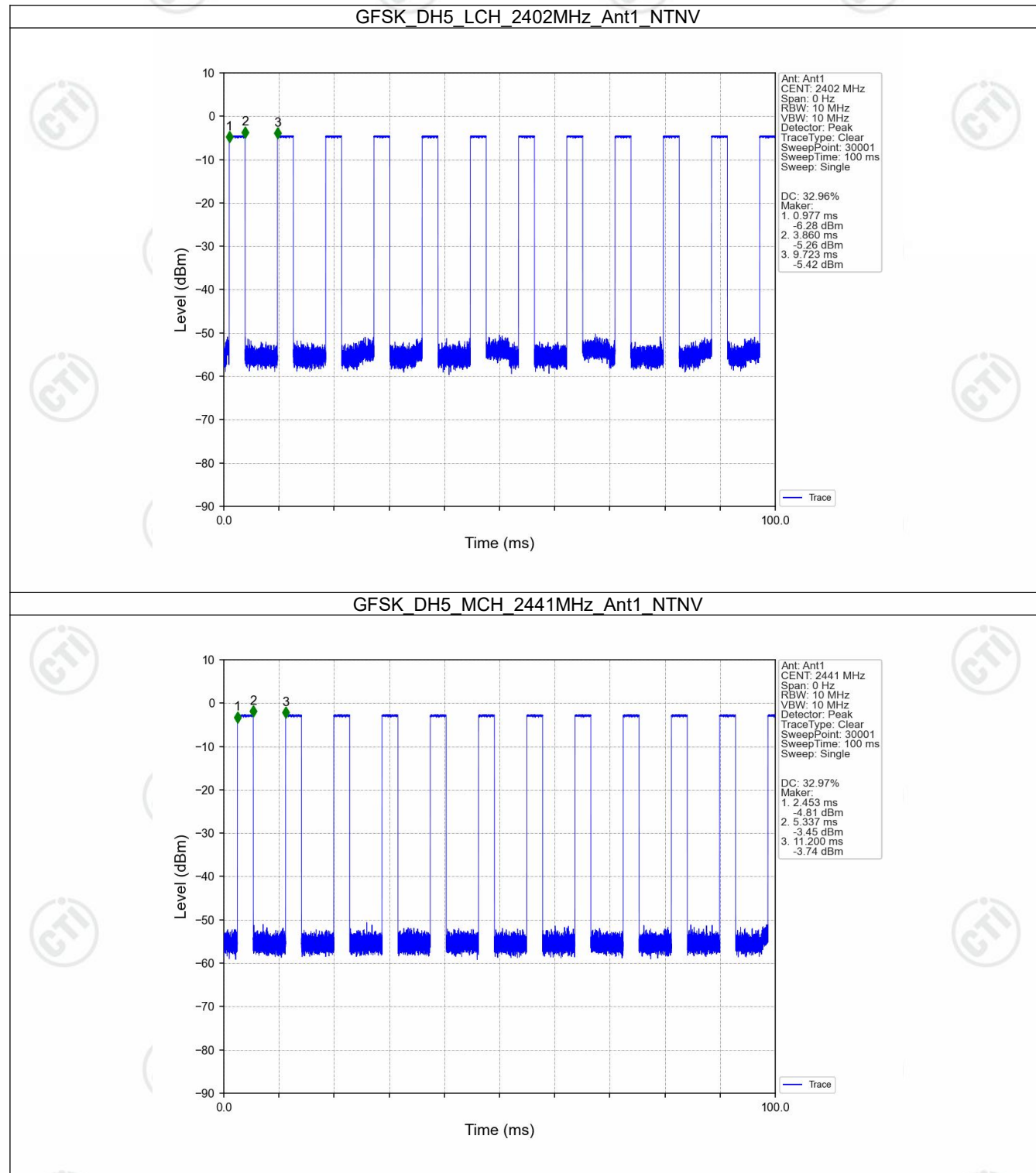
1.1 Test Result

1.1.1 Ant1

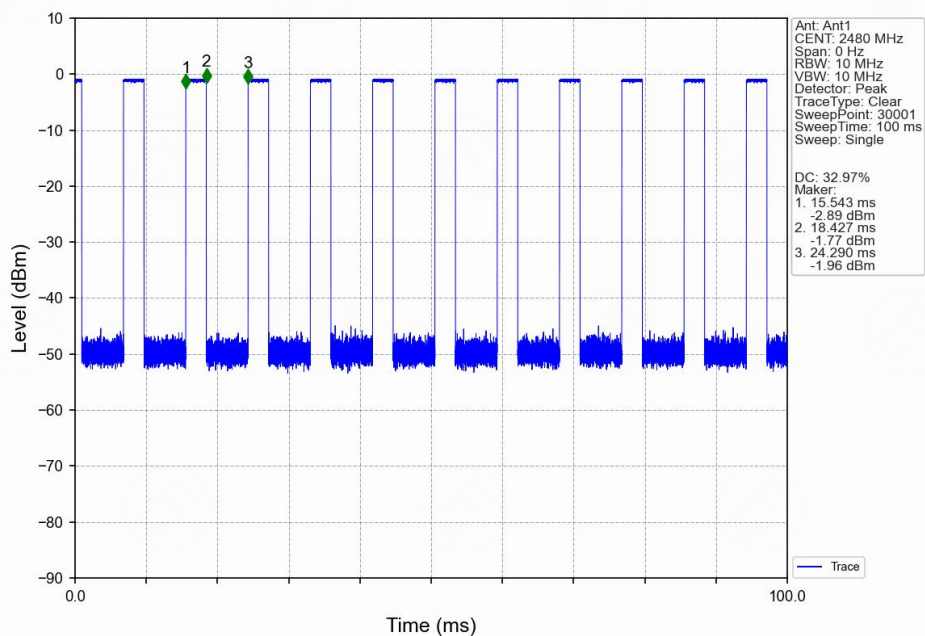
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.883	8.746	32.96	4.82	0.04
		2441	DH5	2.884	8.747	32.97	4.82	0.04
		2480	DH5	2.884	8.747	32.97	4.82	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.890	8.746	33.04	4.81	0.04
		2441	2DH5	2.890	8.747	33.04	4.81	0.04
		2480	2DH5	2.890	8.746	33.04	4.81	0.04
8DPSK	SISO	2402	3DH5	2.890	8.746	33.04	4.81	0.04
		2441	3DH5	2.890	8.746	33.04	4.81	0.04
		2480	3DH5	2.890	8.746	33.04	4.81	0.04

1.2 Test Graph

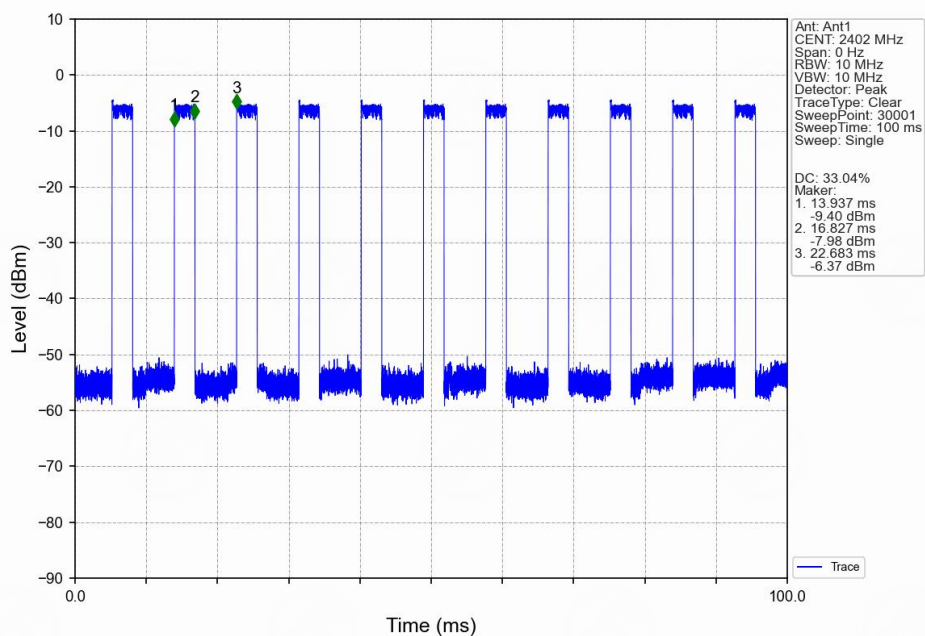
1.2.1 Ant1



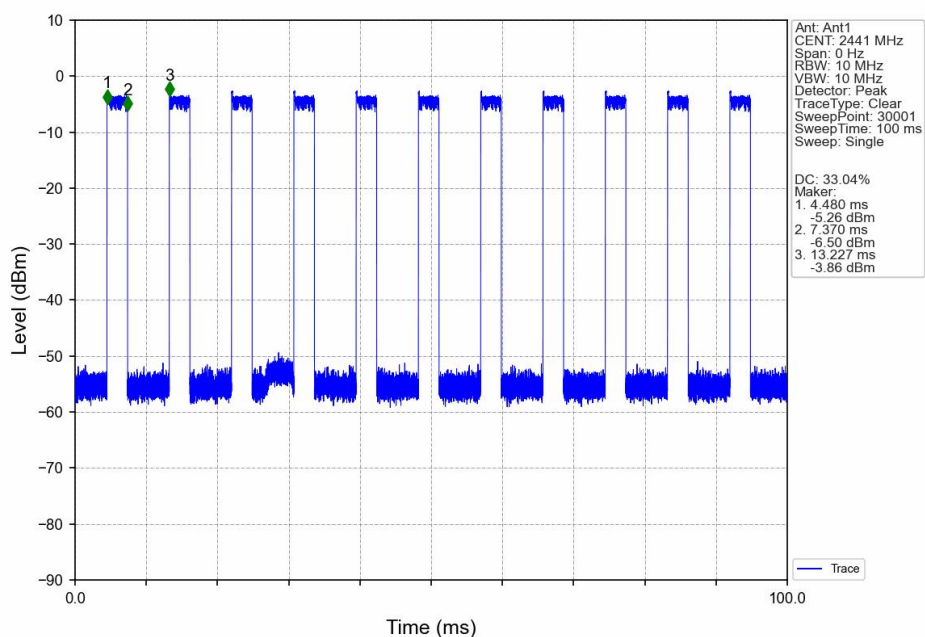
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



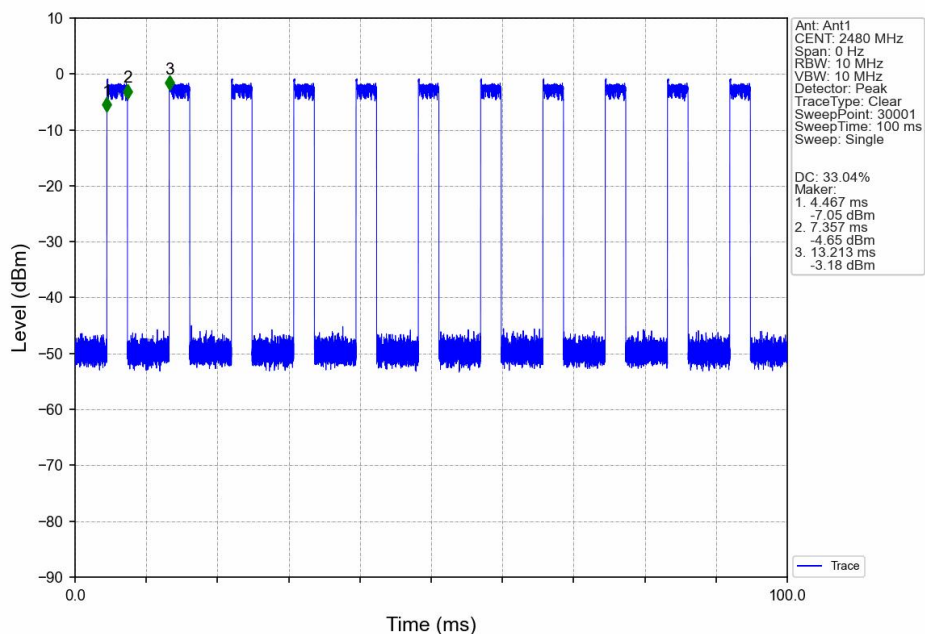
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



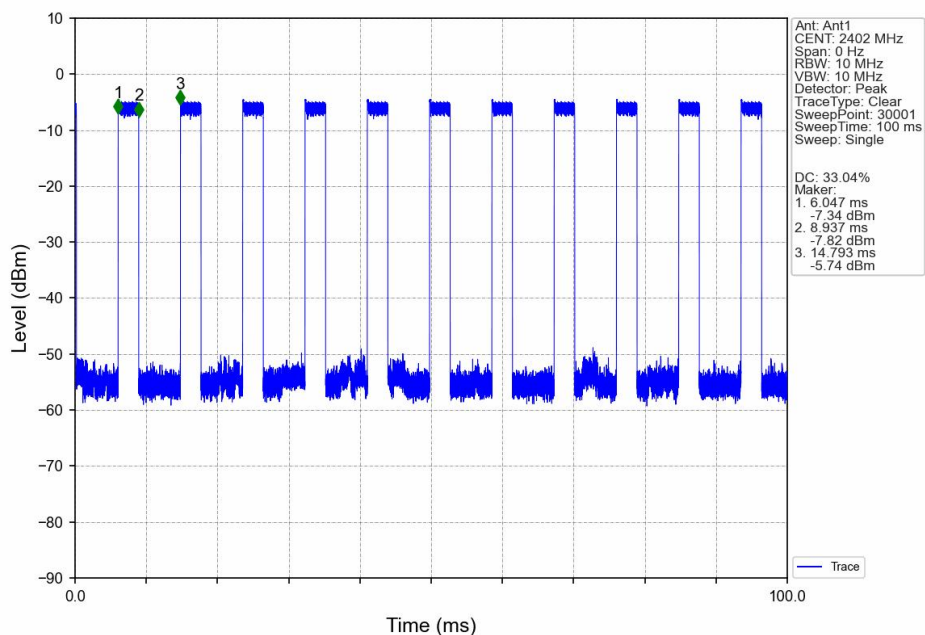
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



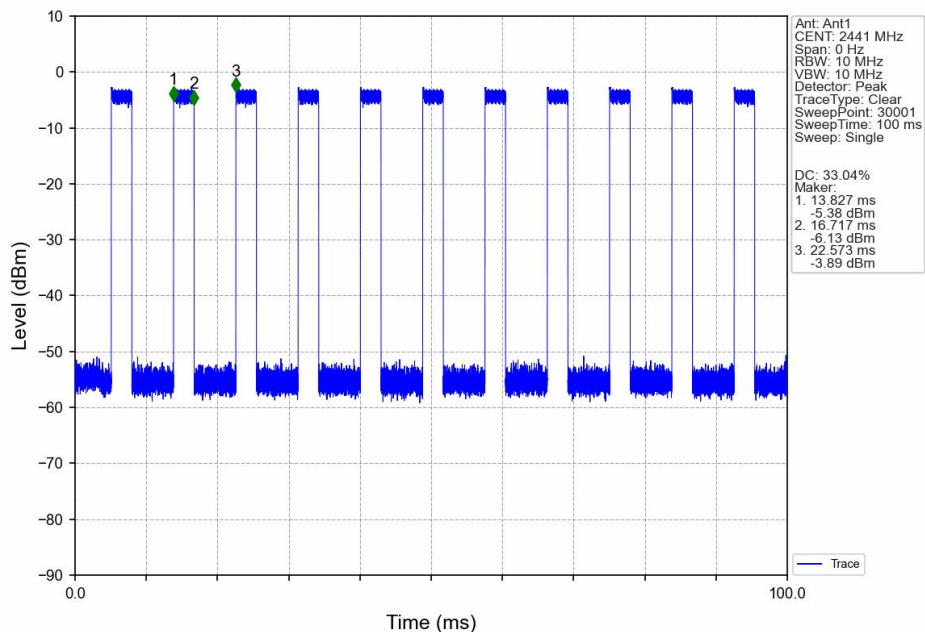
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

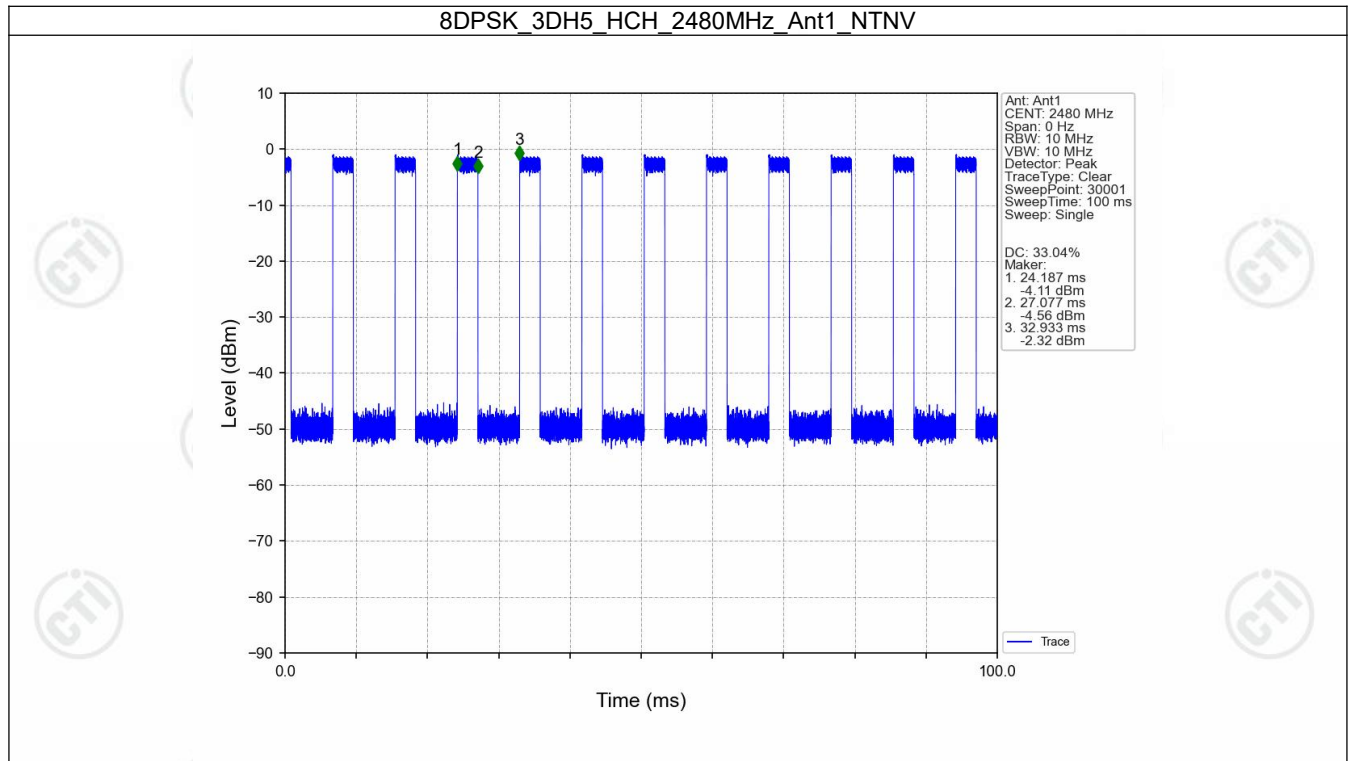


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

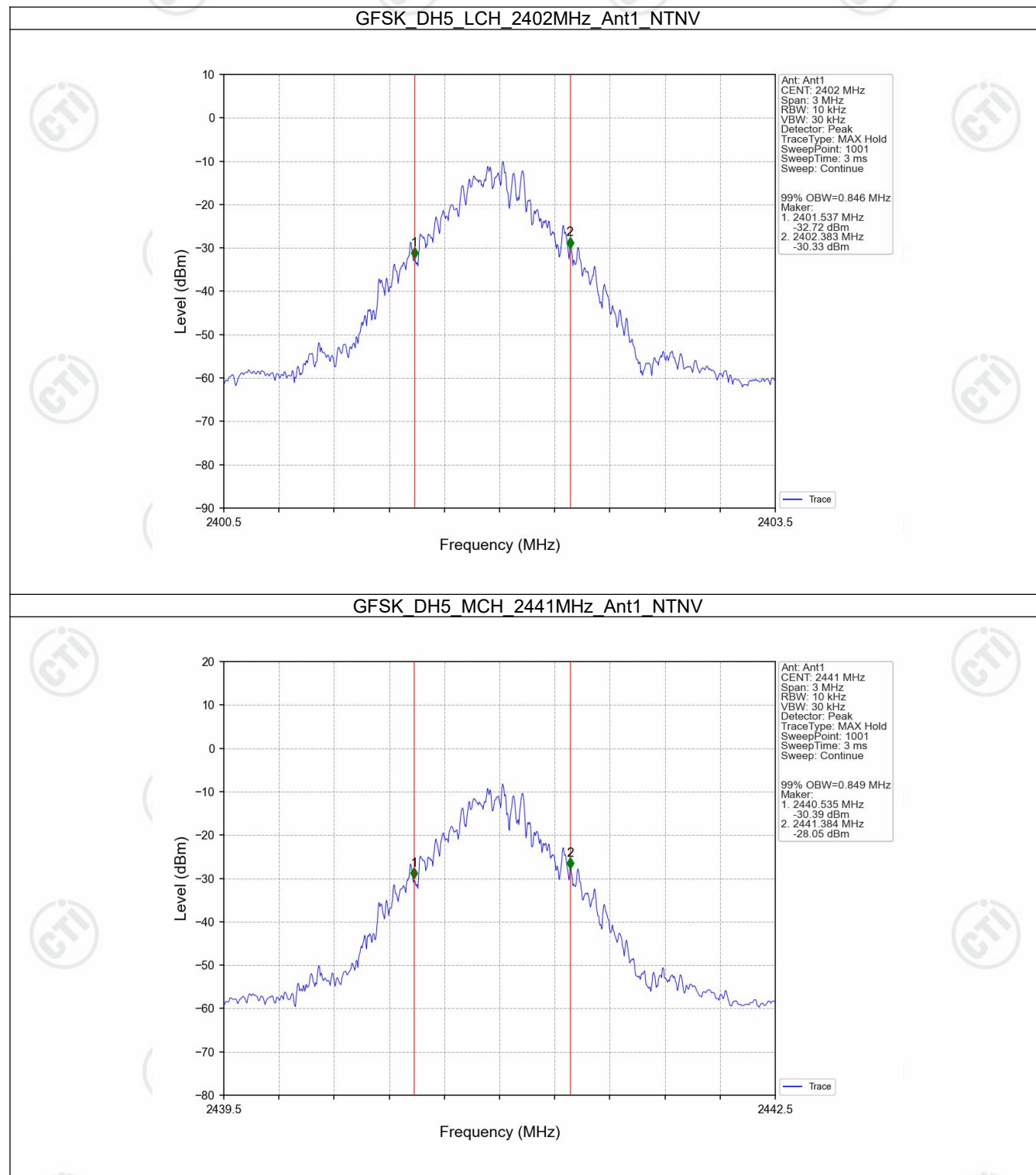
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.846	/	Pass
		2441	DH5	1	0.849	/	Pass
		2480	DH5	1	0.850	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.134	/	Pass
		2441	2DH5	1	1.134	/	Pass
		2480	2DH5	1	1.130	/	Pass
8DPSK	SISO	2402	3DH5	1	1.129	/	Pass
		2441	3DH5	1	1.132	/	Pass
		2480	3DH5	1	1.130	/	Pass

2.1.2 20dB BW

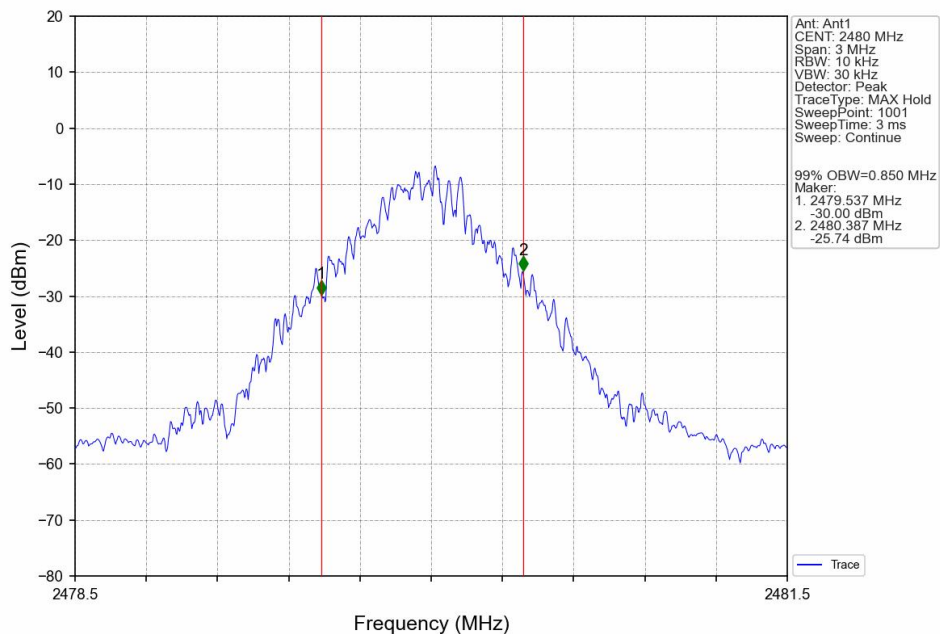
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.917	/	Pass
		2441	DH5	1	0.919	/	Pass
		2480	DH5	1	0.921	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.235	/	Pass
		2441	2DH5	1	1.226	/	Pass
		2480	2DH5	1	1.229	/	Pass
8DPSK	SISO	2402	3DH5	1	1.240	/	Pass
		2441	3DH5	1	1.237	/	Pass
		2480	3DH5	1	1.235	/	Pass

2.2 Test Graph

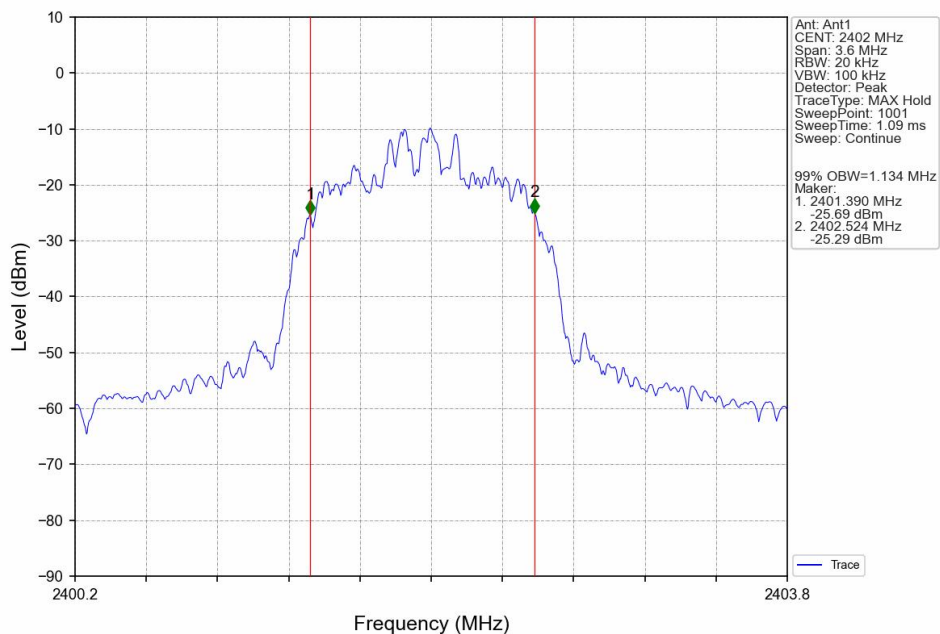
2.2.1 OBW



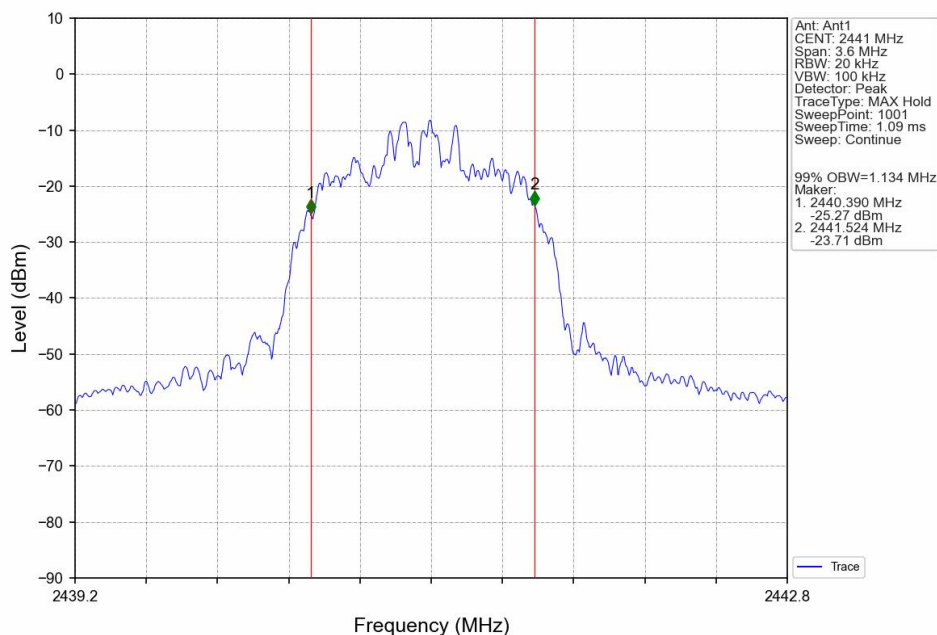
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



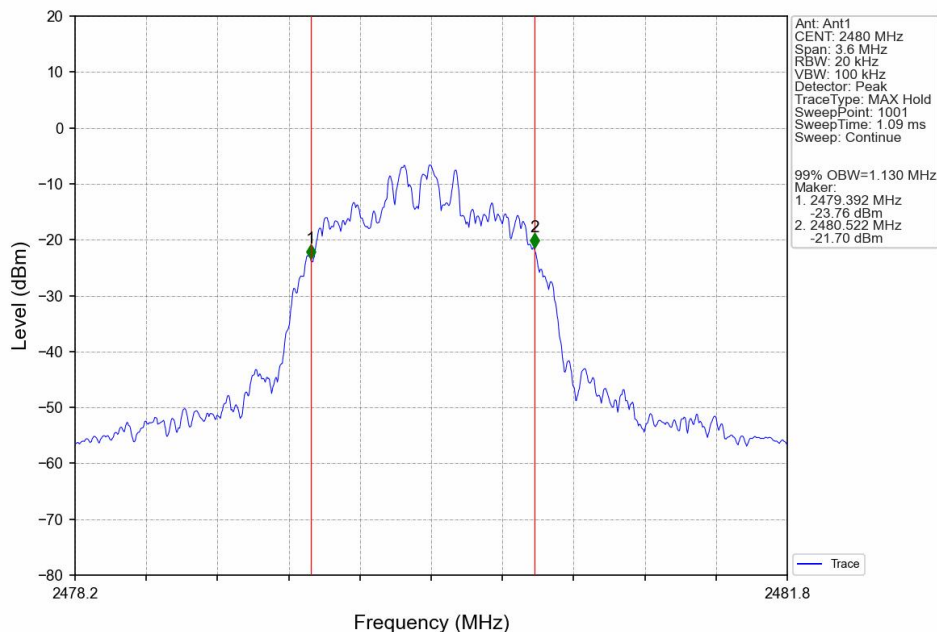
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



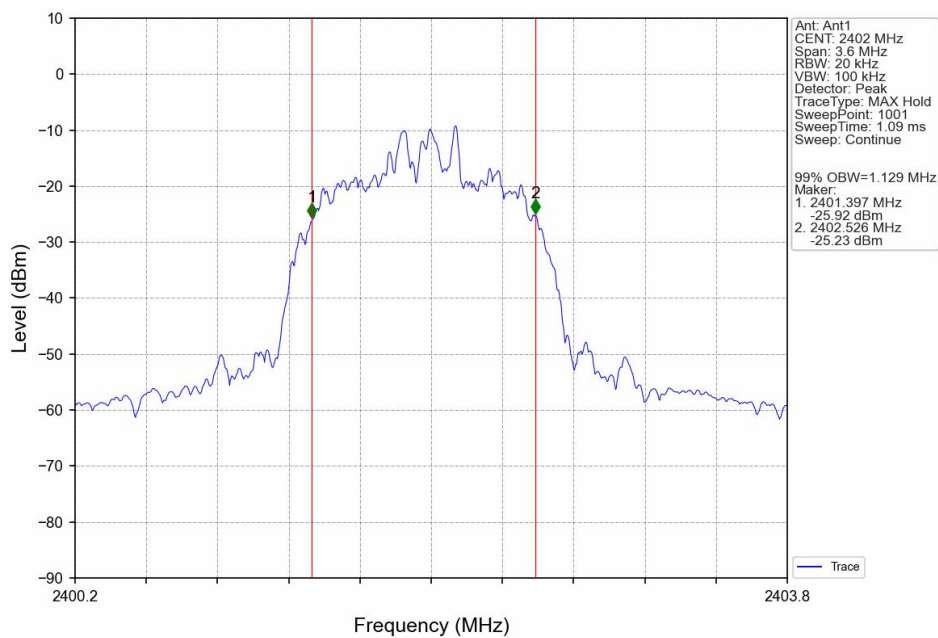
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



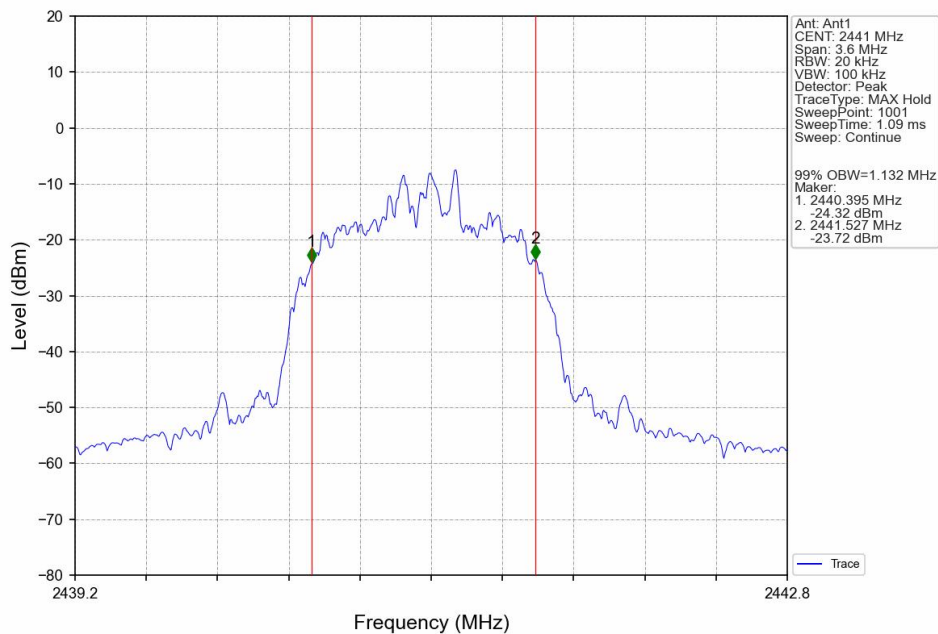
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

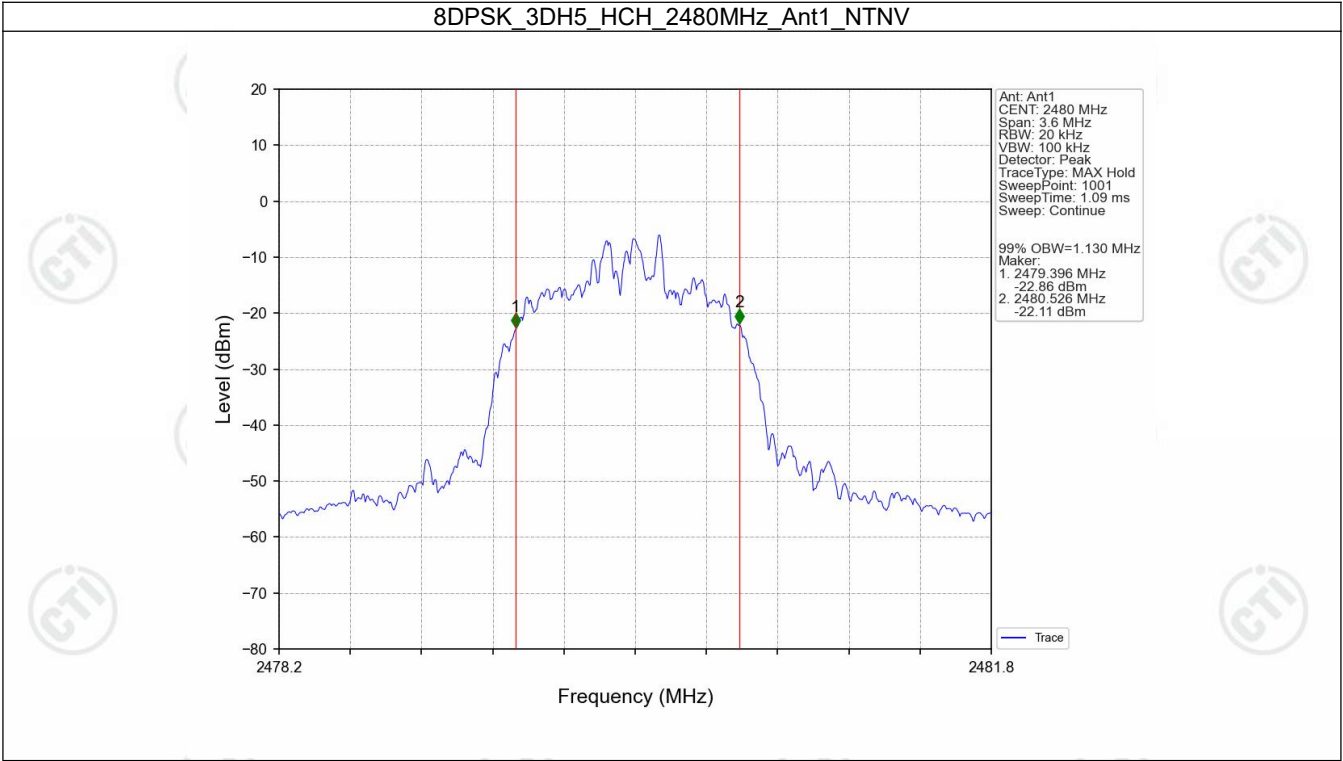


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

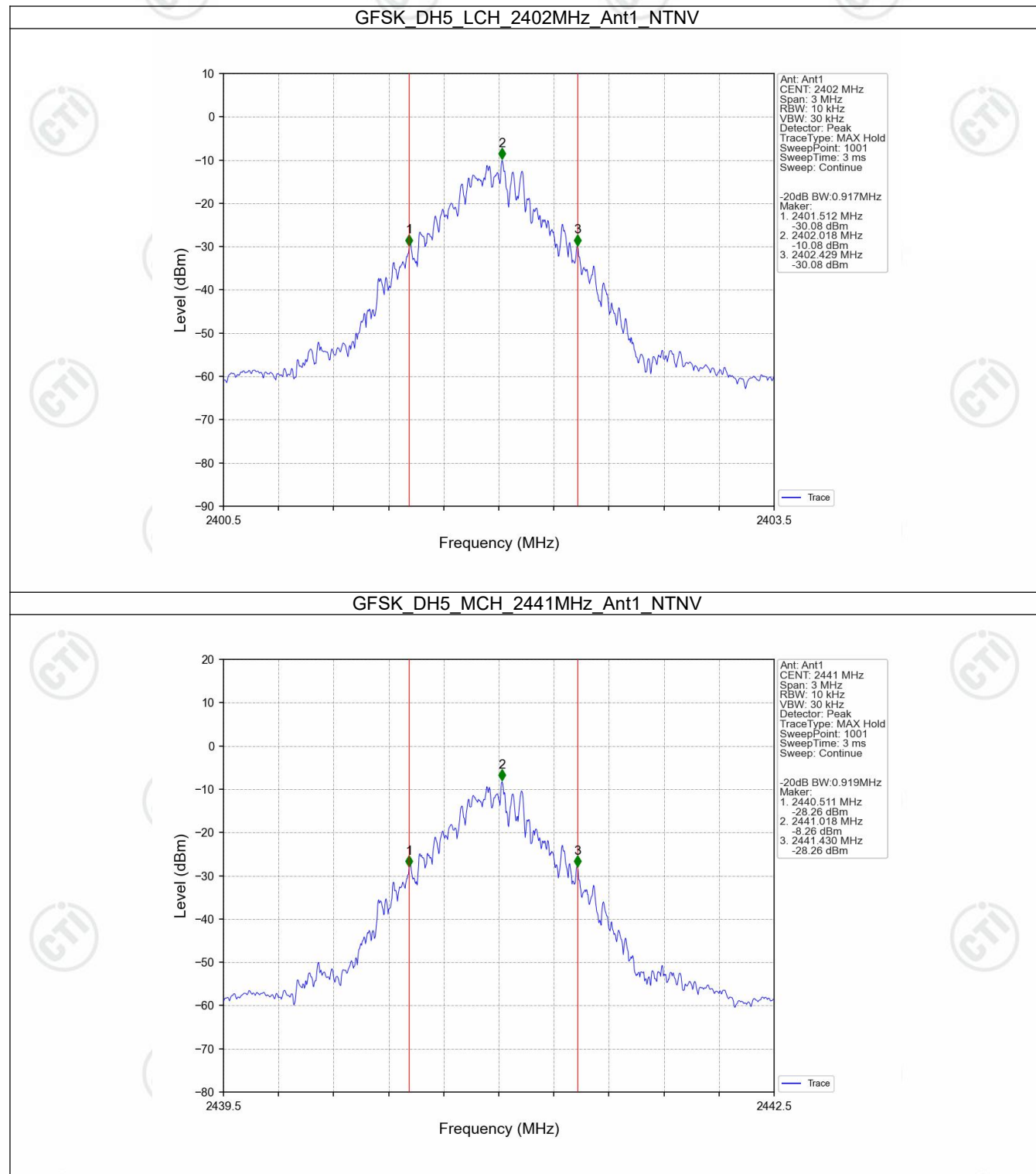


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

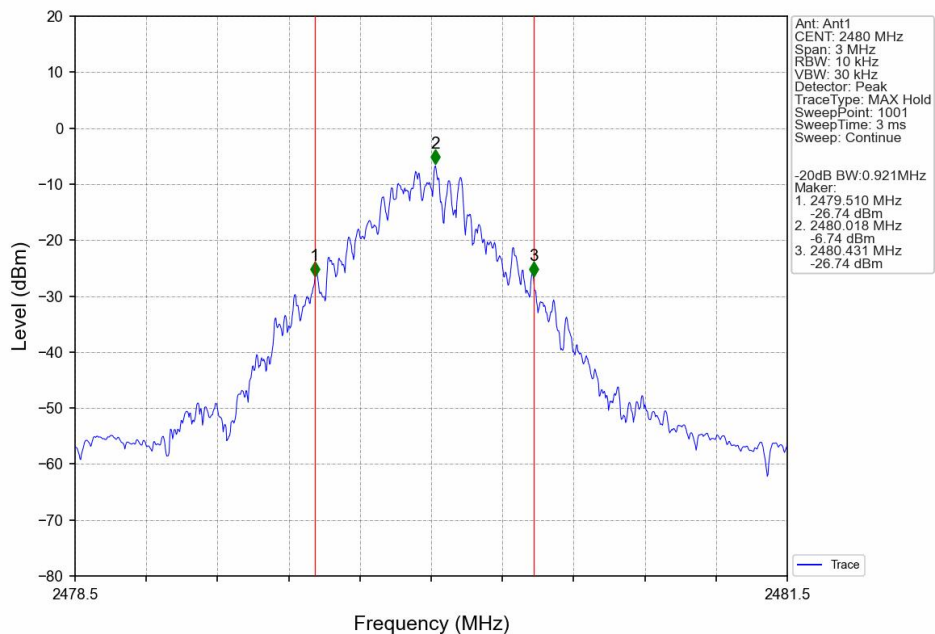




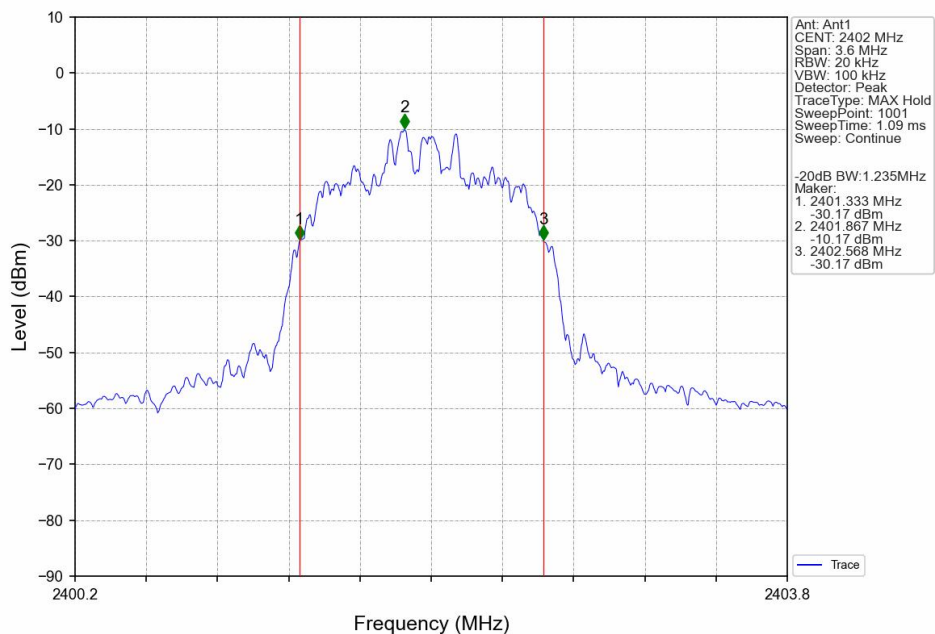
2.2.2 20dB BW



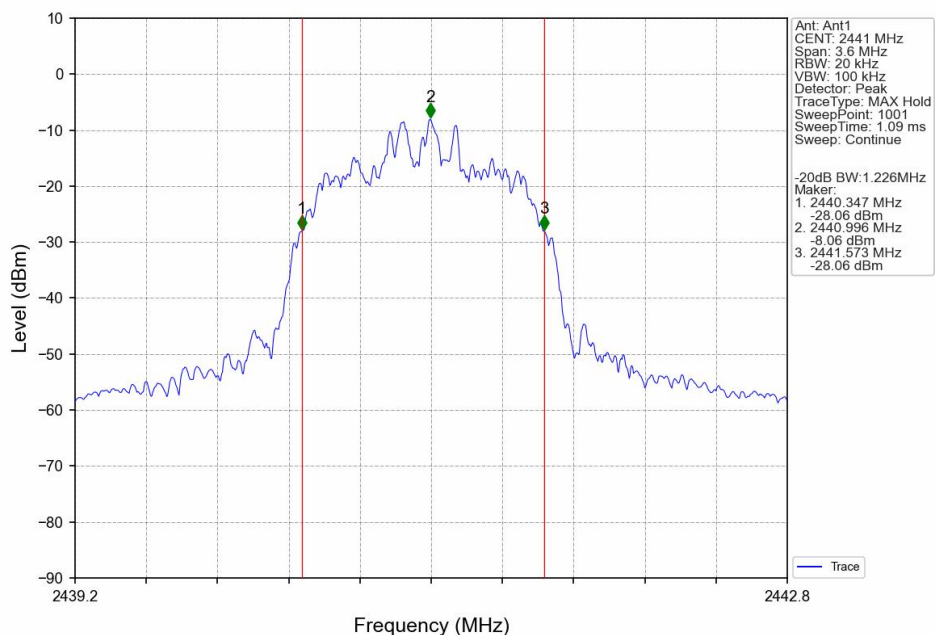
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

