

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 101 of 165

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.47	-7.53	Pass
		2441	DH5	1	12.47	-7.53	Pass
		2480	DH5	1	12.47	-7.53	Pass
		HOPP	DH5	1	12.47	-7.53	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	12.50	-7.50	Pass
		2441	2DH5	1	12.50	-7.50	Pass
		2480	2DH5	1	12.50	-7.50	Pass
		HOPP	2DH5	1	12.50	-7.50	Pass
8DPSK	SISO	2402	3DH5	1	12.49	-7.51	Pass
		2441	3DH5	1	12.49	-7.51	Pass
		2480	3DH5	1	12.49	-7.51	Pass
		HOPP	3DH5	1	12.49	-7.51	Pass



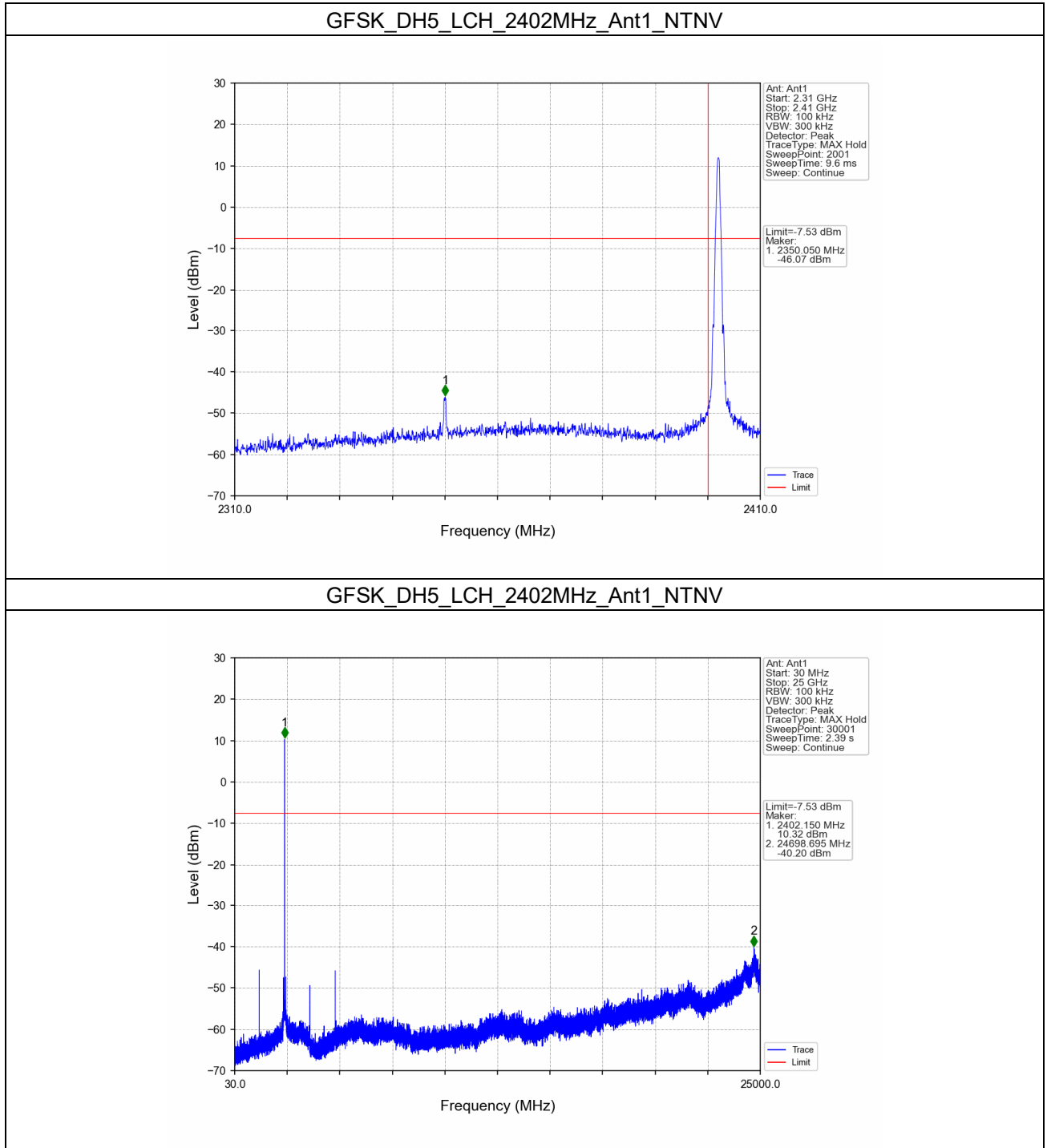
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Shenzhen Branch

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7.2.2 Test Graph



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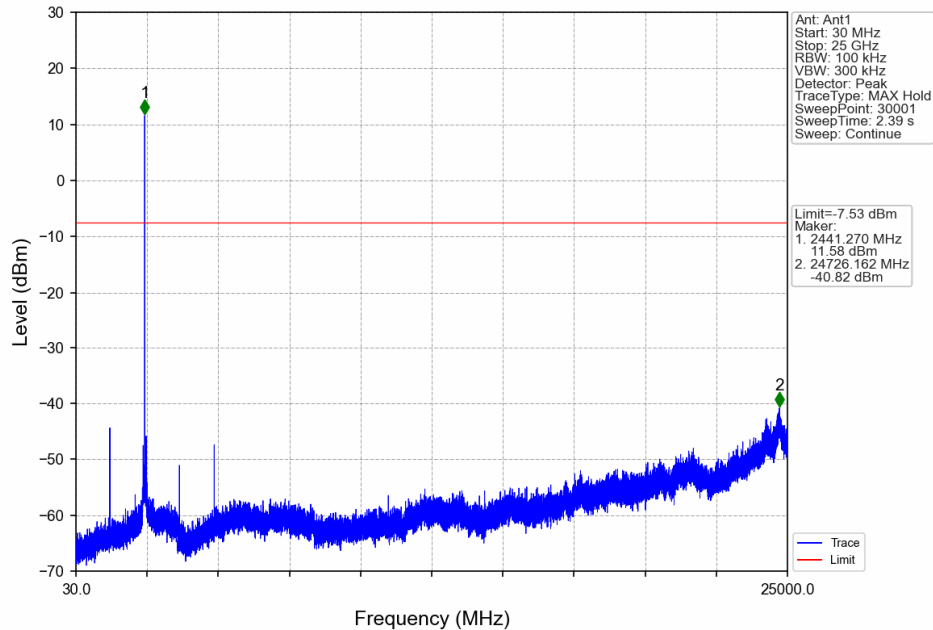
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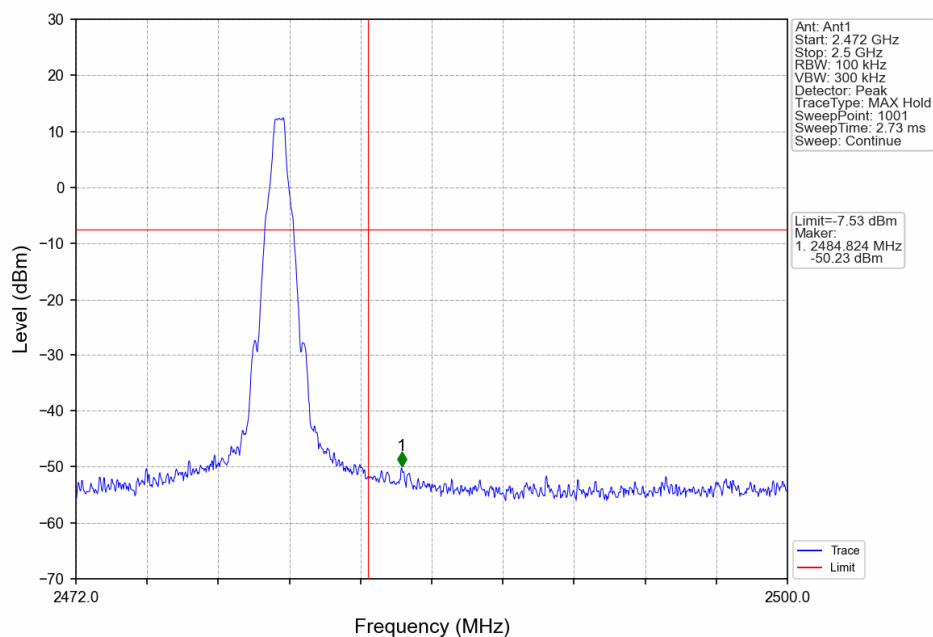
Report No.: FYCR220800034502

Page: 103 of 165

GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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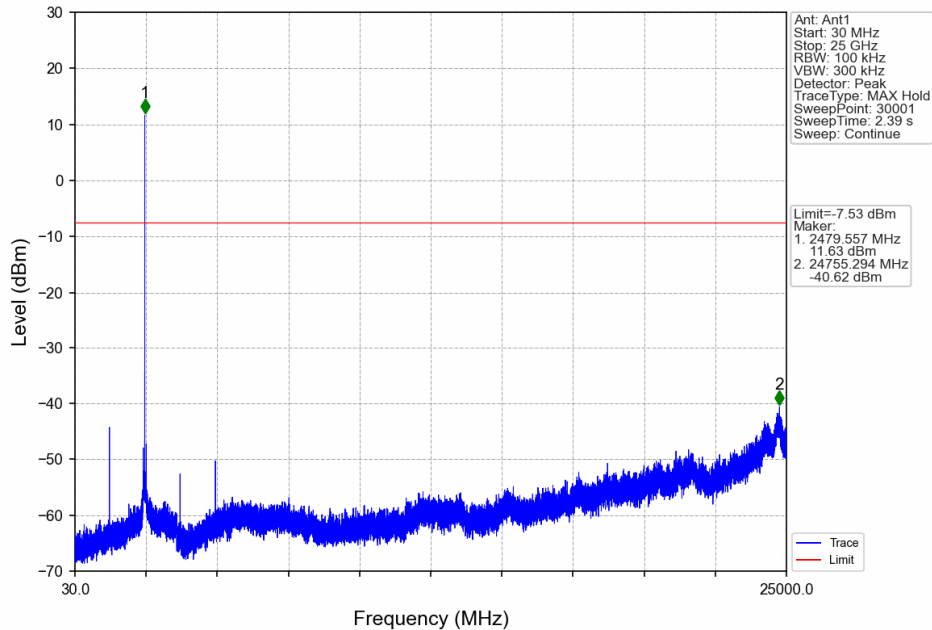
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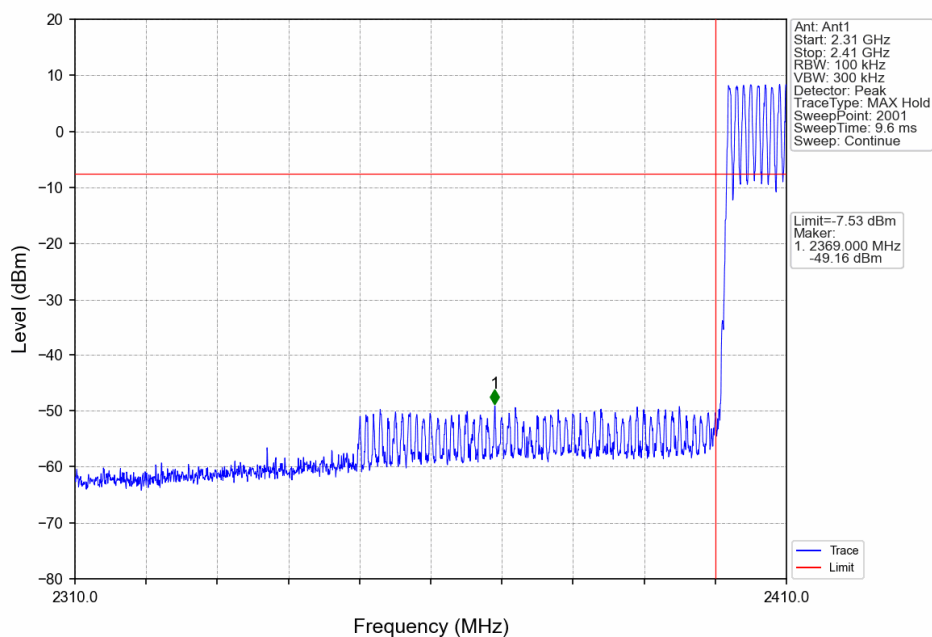
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Page: 104 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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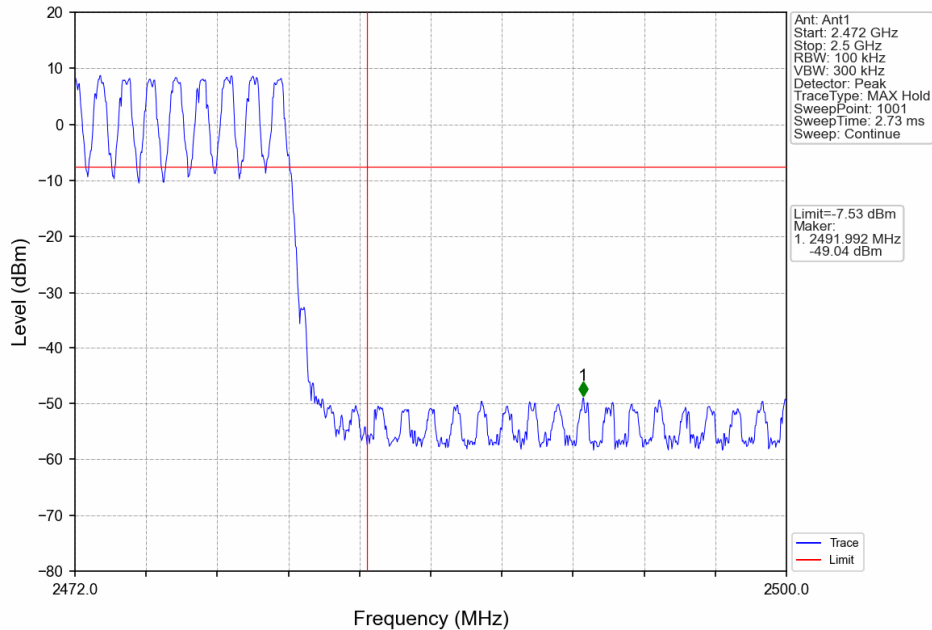
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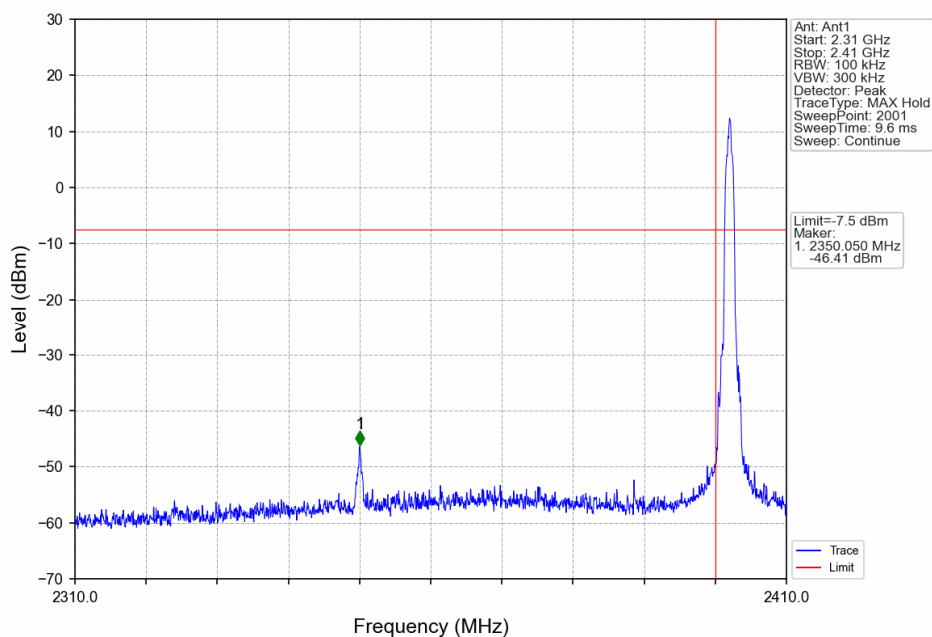
Report No.: FYCR220800034502

Page: 105 of 165

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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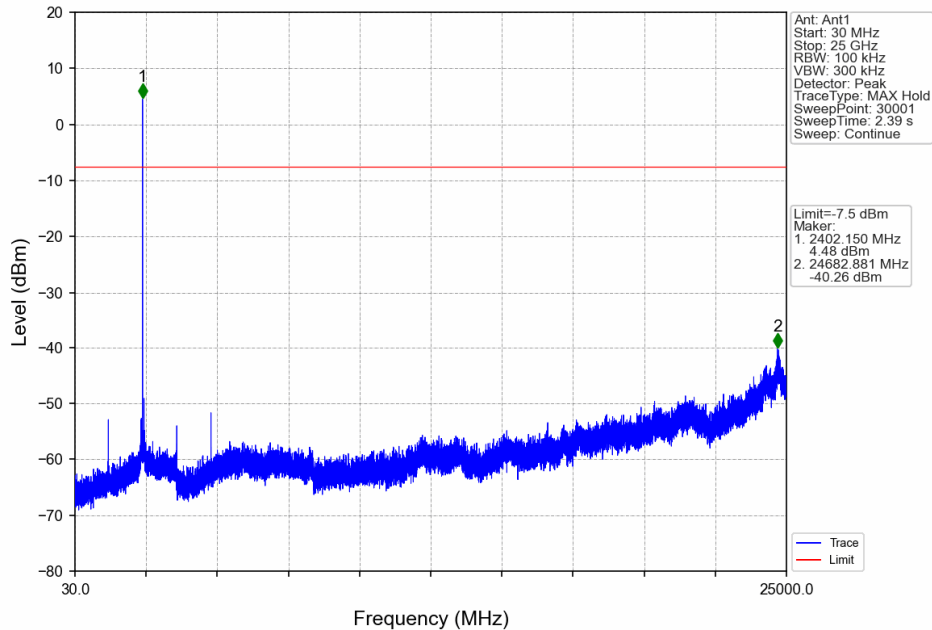
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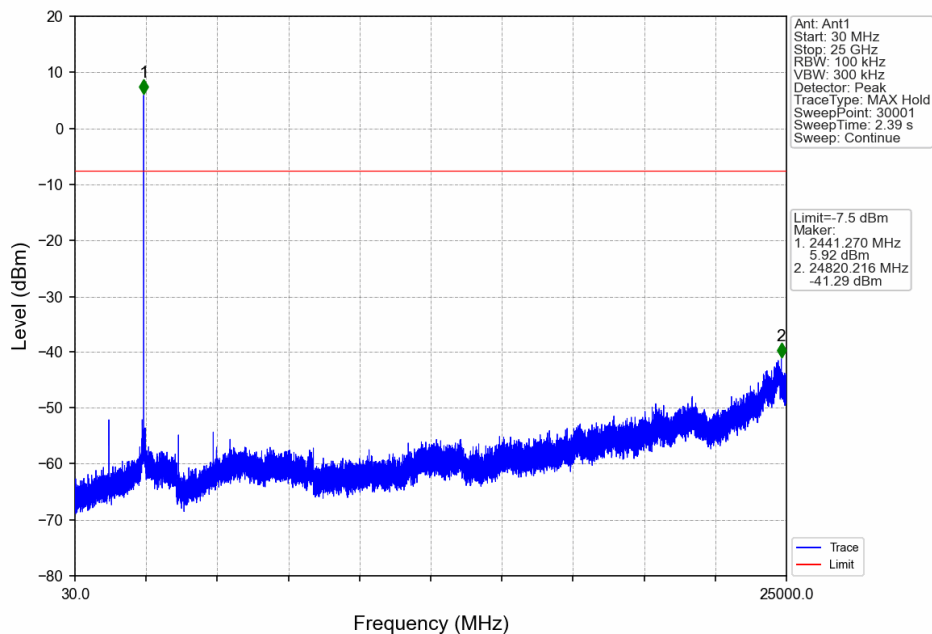
Report No.: FYCR220800034502

Page: 106 of 165

Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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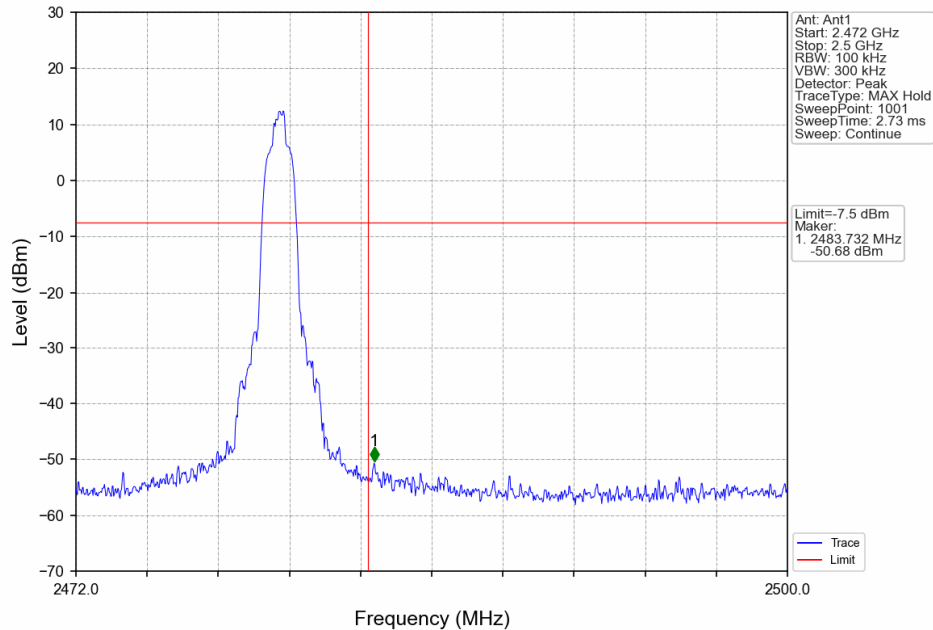
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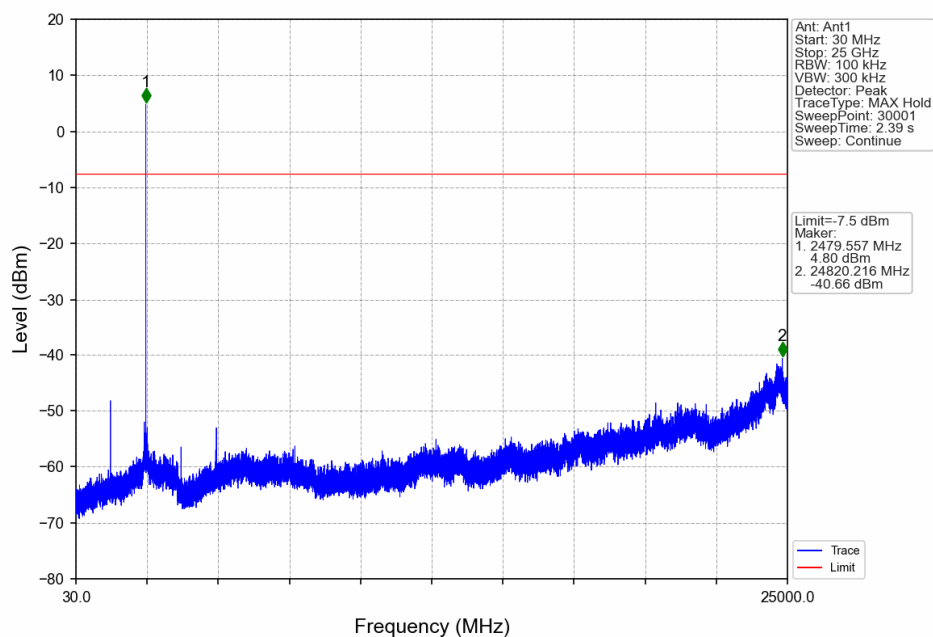
Report No.: FYCR220800034502

Page: 107 of 165

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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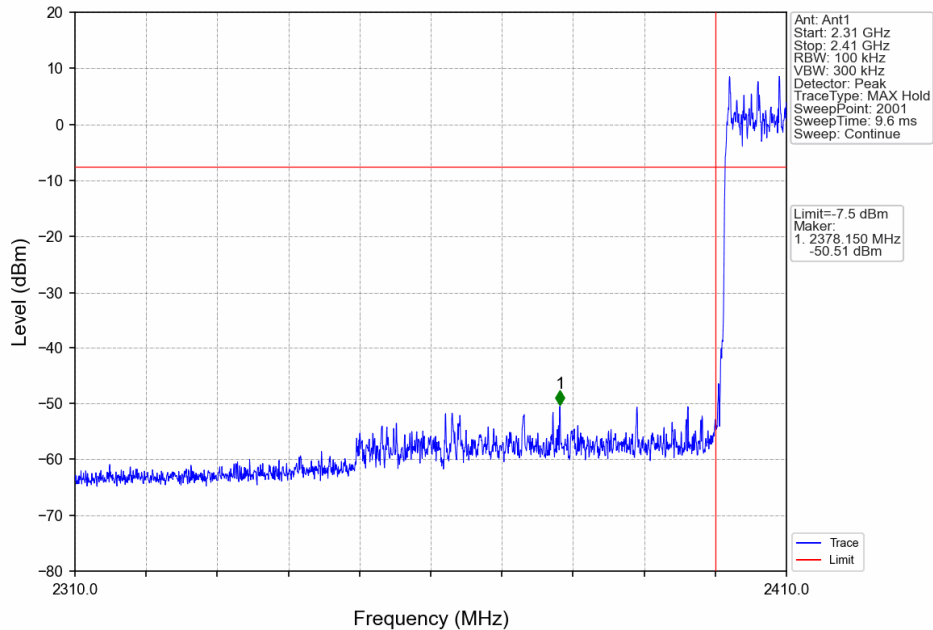
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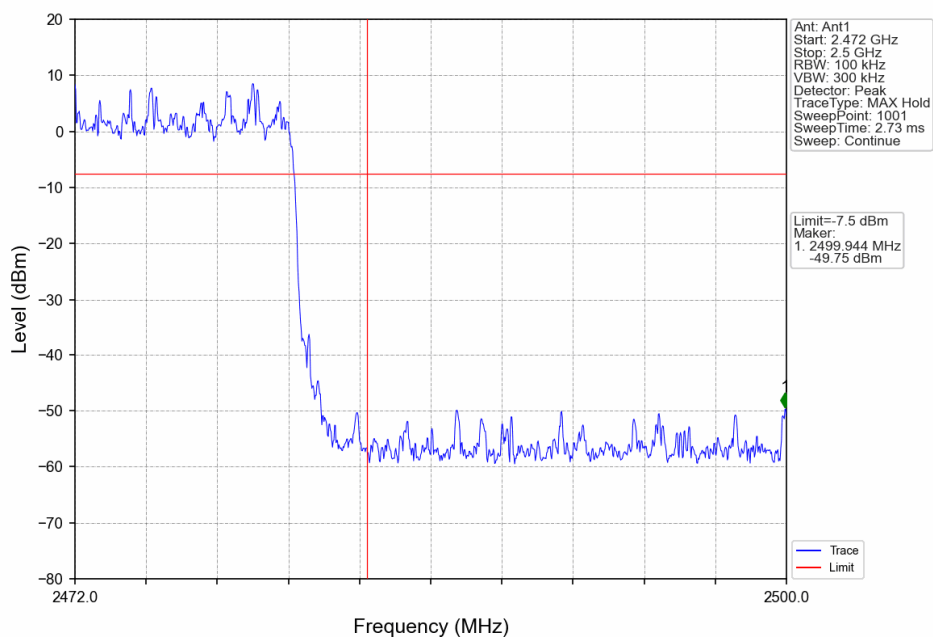
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Page: 108 of 165

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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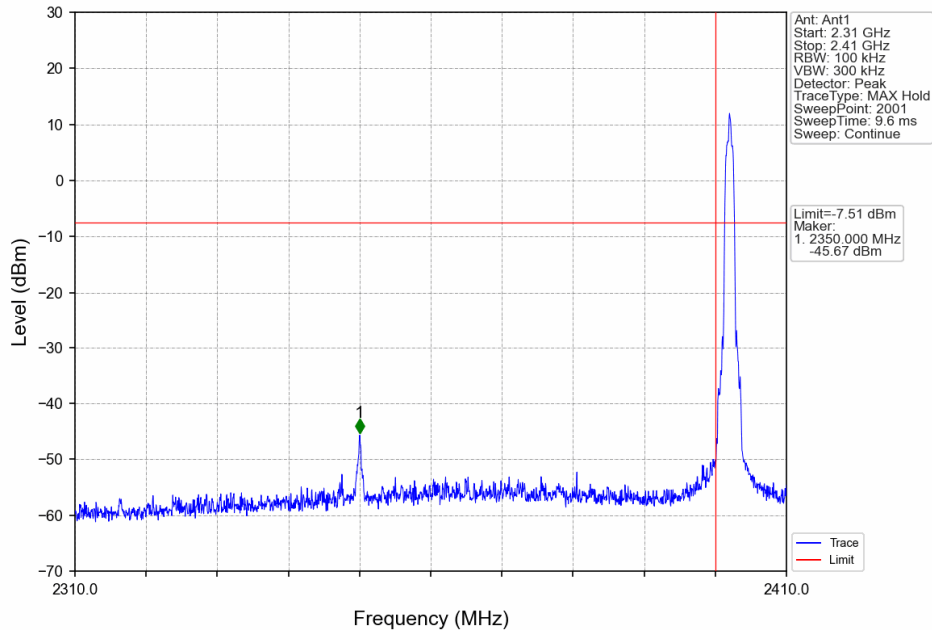
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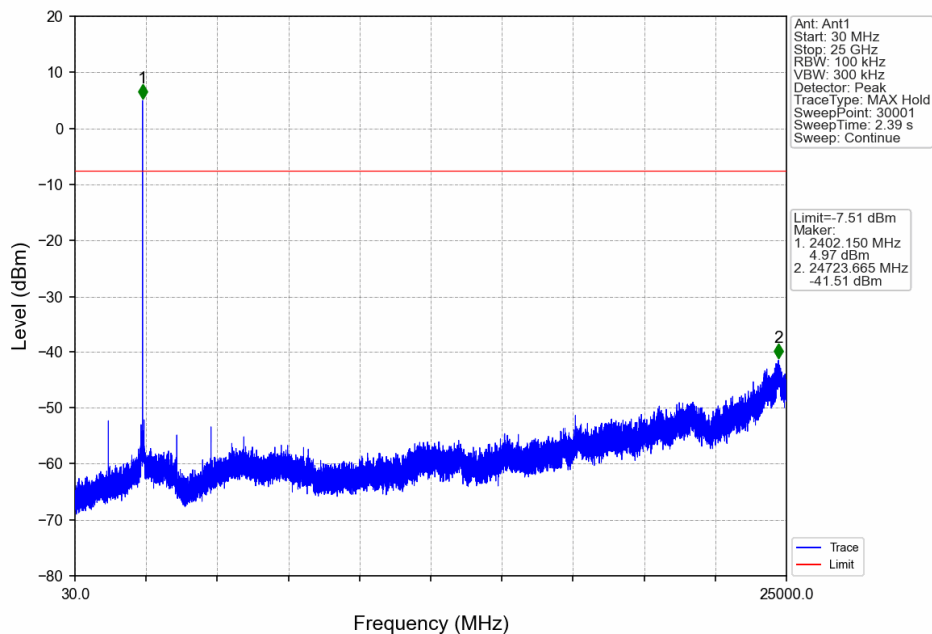
Report No.: FYCR220800034502

Page: 109 of 165

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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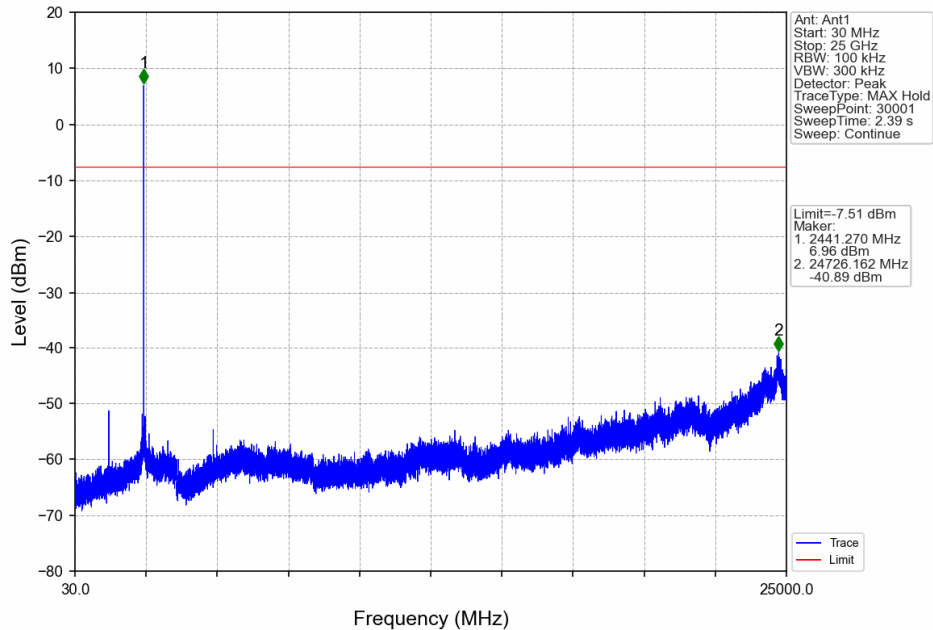
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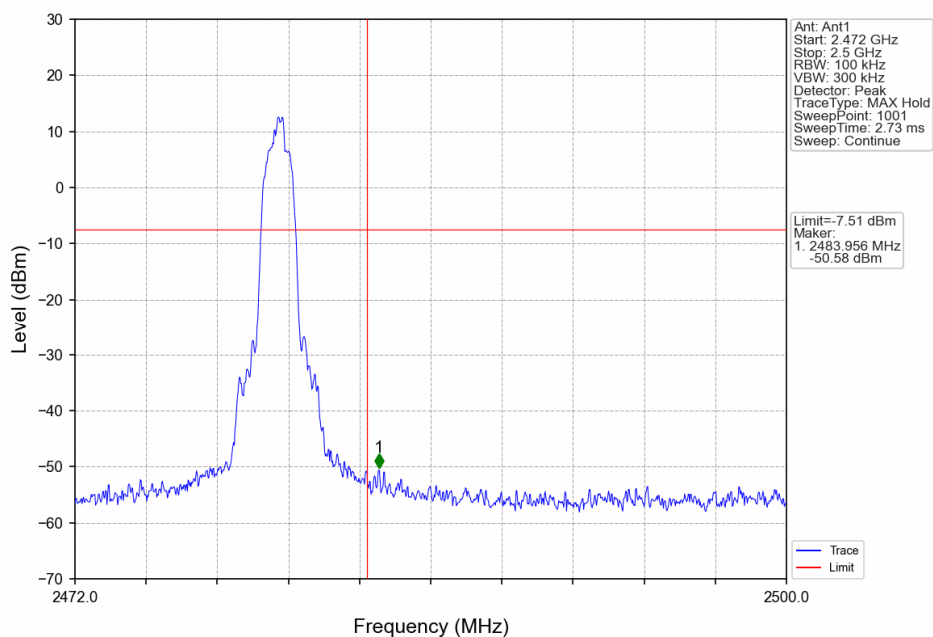
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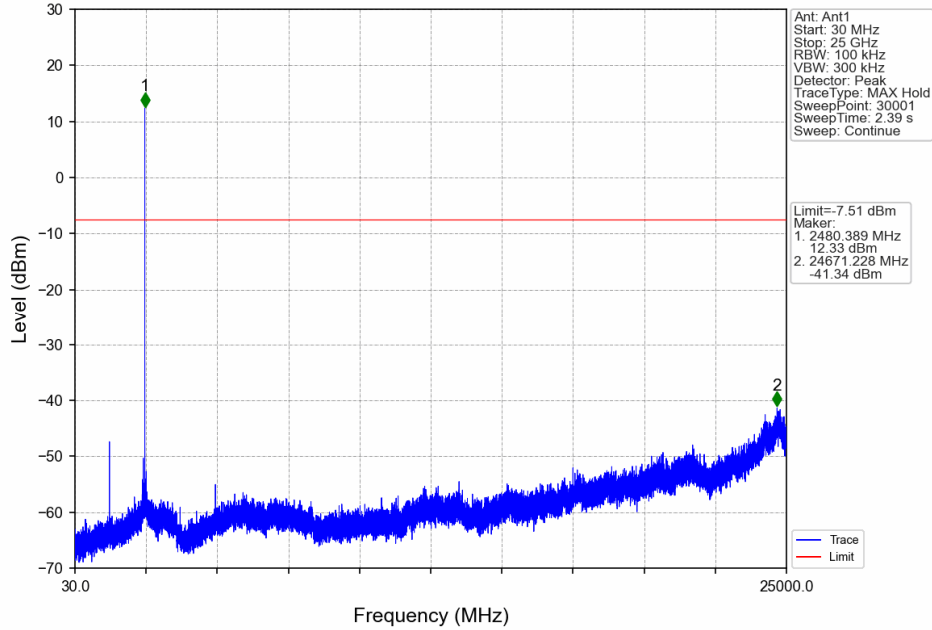
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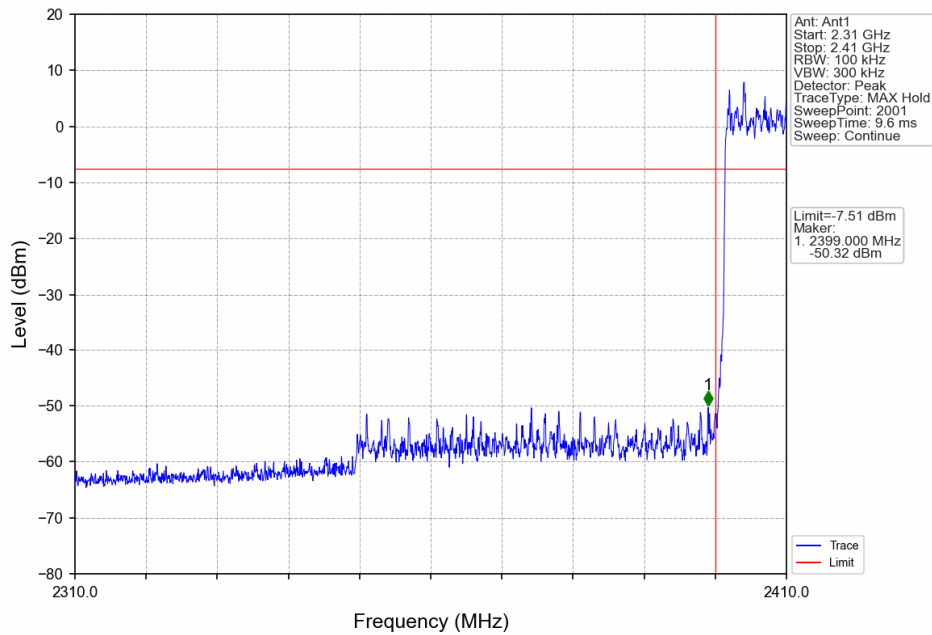
Report No.: FYCR220800034502

Page: 111 of 165

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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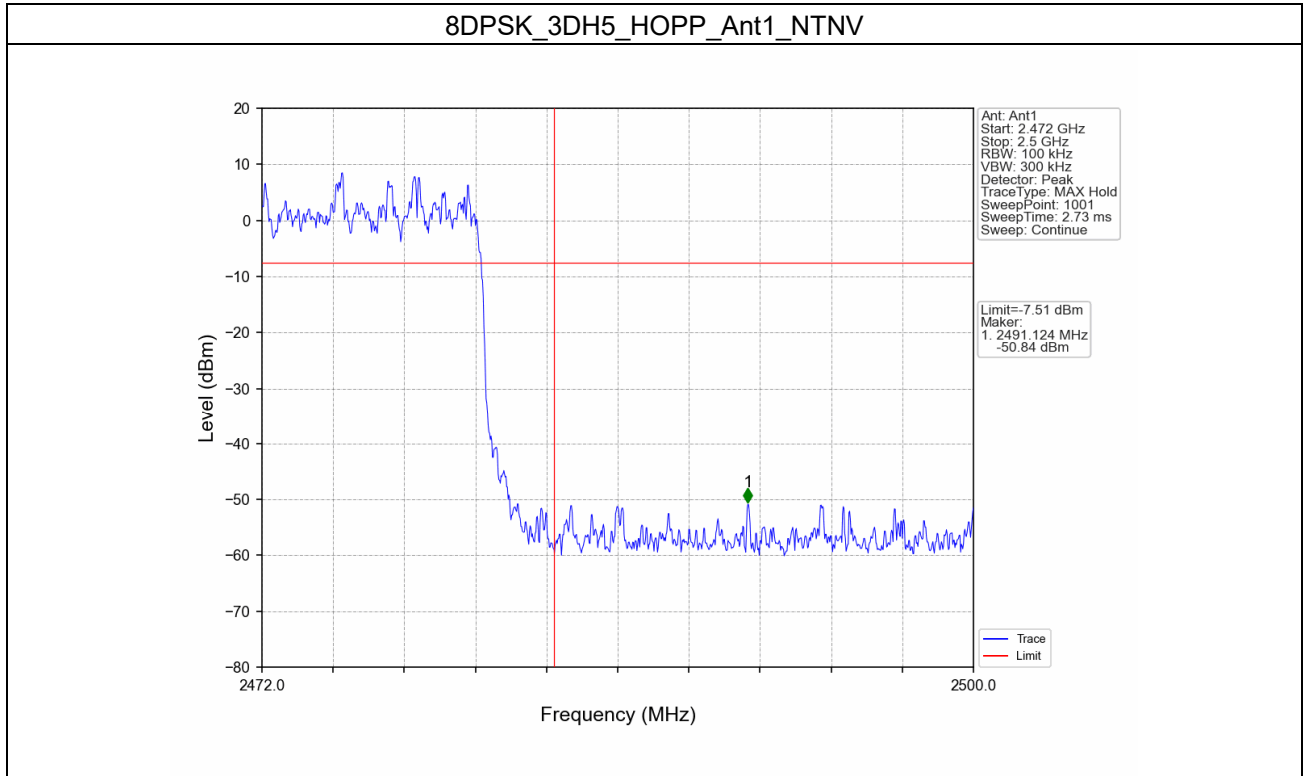
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Report No.: FYCR220800034502

Page: 112 of 165



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 113 of 165

For left earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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	2.913	3.749	77.70	1.10	0.04
		2441	DH5	2.913	3.749	77.70	1.10	0.03
		2480	DH5	2.914	3.750	77.71	1.10	0.01
Pi/4DQPSK	SISO	2402	2DH5	2.920	3.749	77.89	1.09	0.01
		2441	2DH5	2.920	3.751	77.85	1.09	0.03
		2480	2DH5	2.919	3.750	77.84	1.09	0.03
8DPSK	SISO	2402	3DH5	2.921	3.751	77.87	1.09	0.03
		2441	3DH5	2.921	3.751	77.87	1.09	0.03
		2480	3DH5	2.921	3.751	77.87	1.09	0.03



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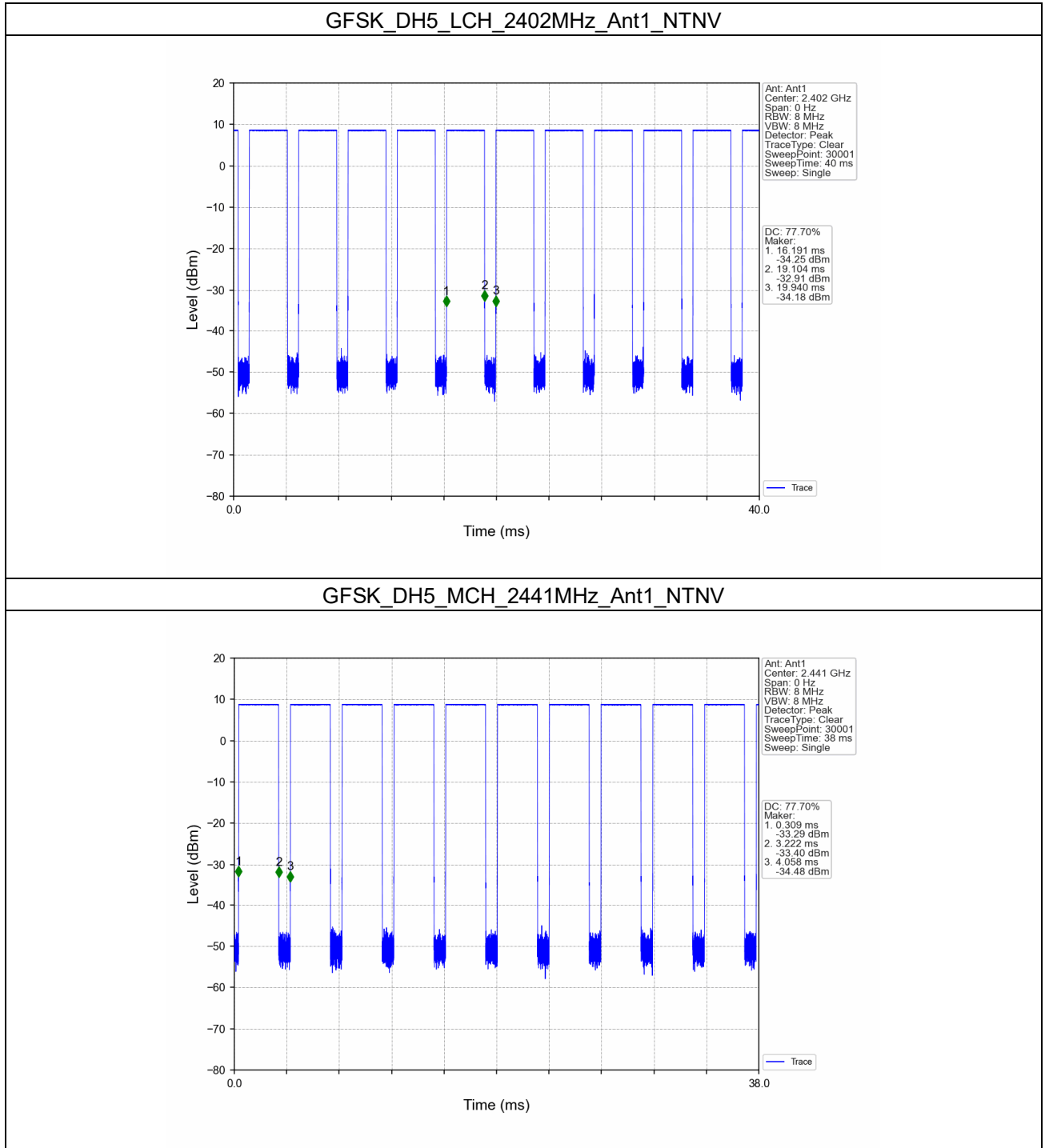
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 114 of 165

1.1.2 Test Graph



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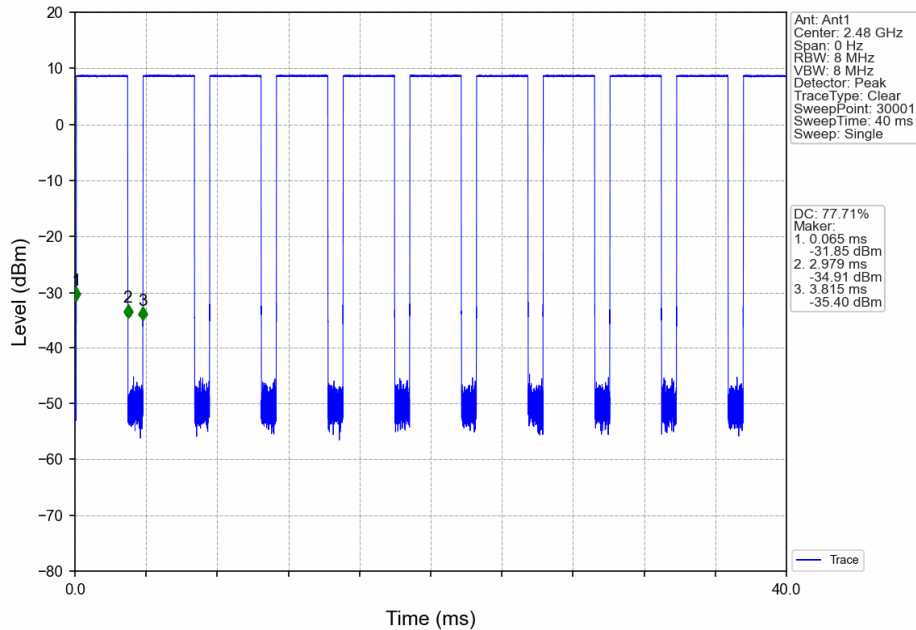
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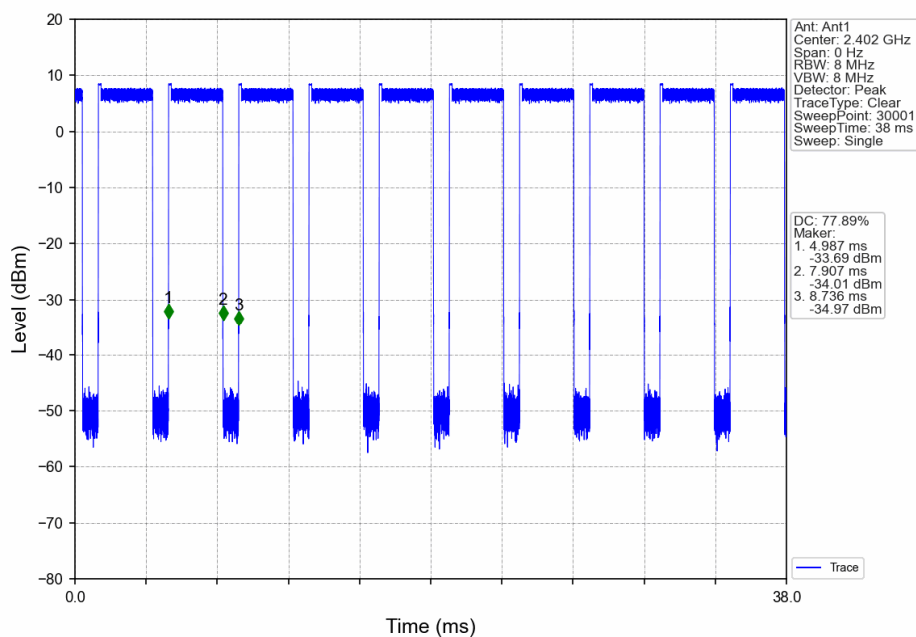
Report No.: FYCR220800034502

Page: 115 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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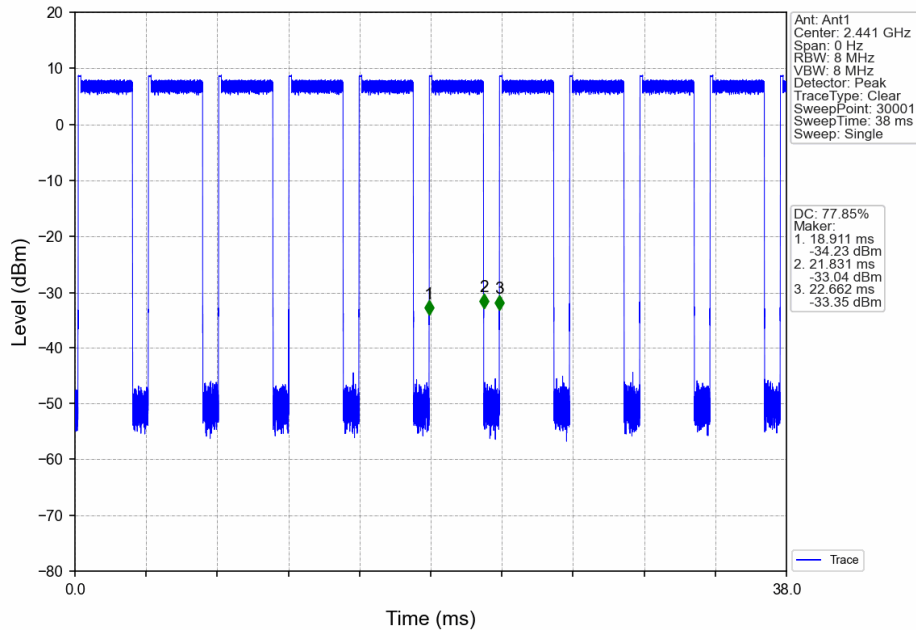
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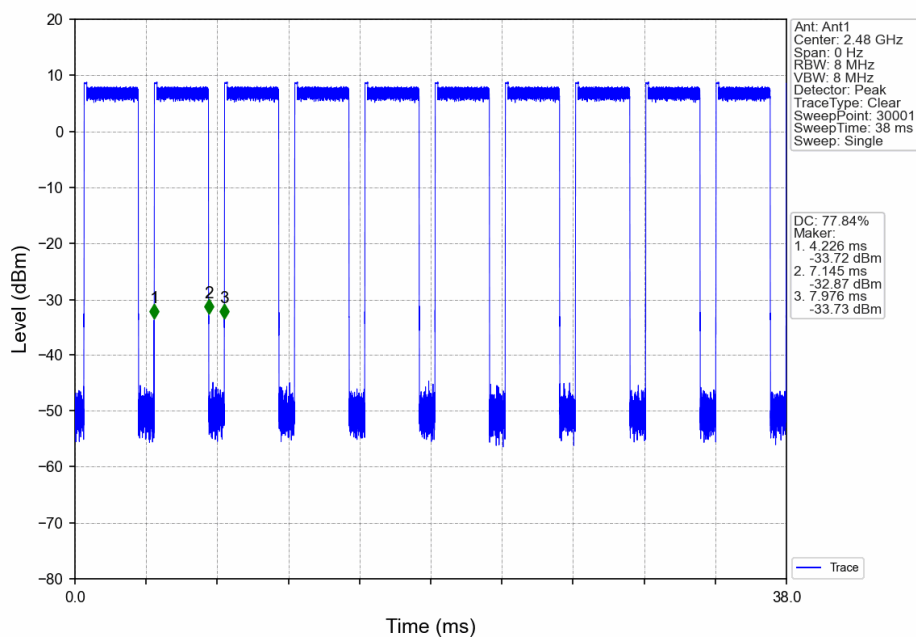
Report No.: FYCR220800034502

Page: 116 of 165

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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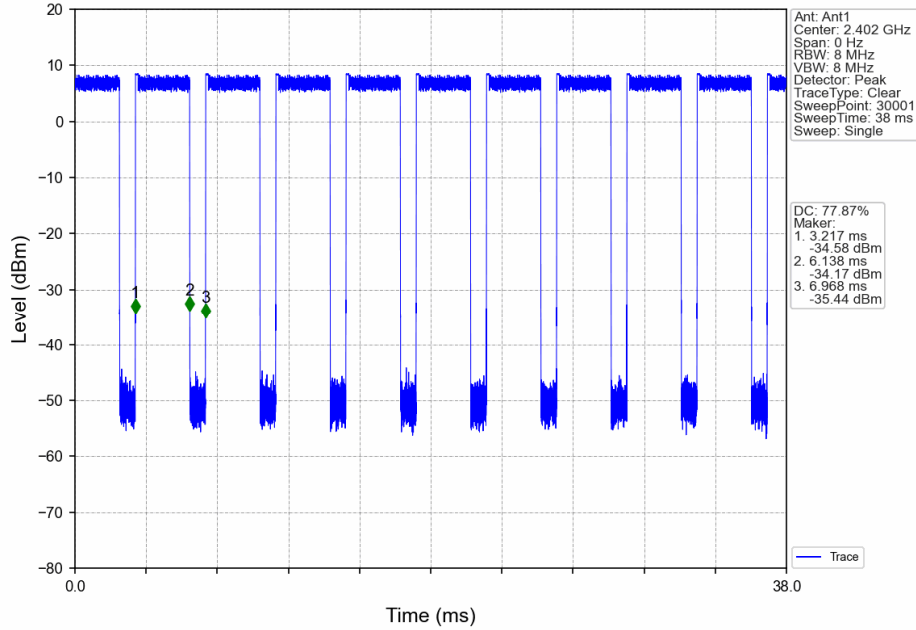
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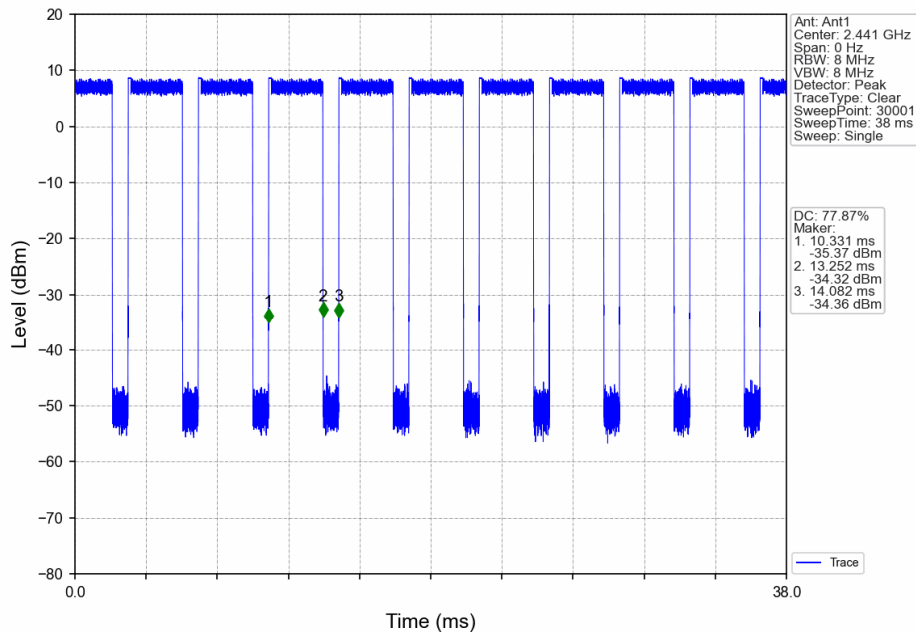
Report No.: FYCR220800034502

Page: 117 of 165

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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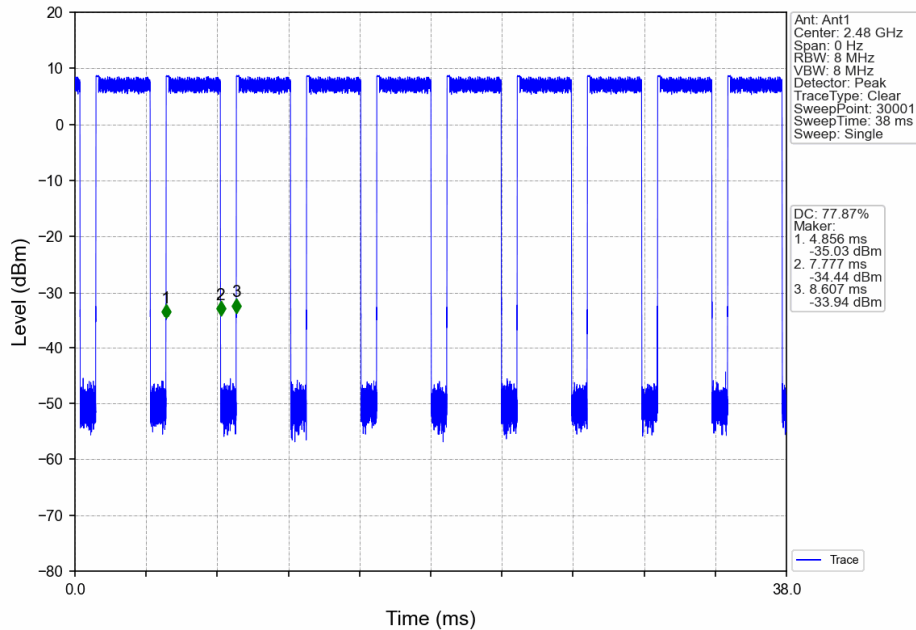
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Page: 118 of 165

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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Report No.: FYCR220800034502

Page: 119 of 165

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.935	Pass
		2441	DH5	1	0.933	Pass
		2480	DH5	1	0.919	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.122	Pass
		2441	2DH5	1	1.123	Pass
		2480	2DH5	1	1.122	Pass
8DPSK	SISO	2402	3DH5	1	1.136	Pass
		2441	3DH5	1	1.137	Pass
		2480	3DH5	1	1.137	Pass



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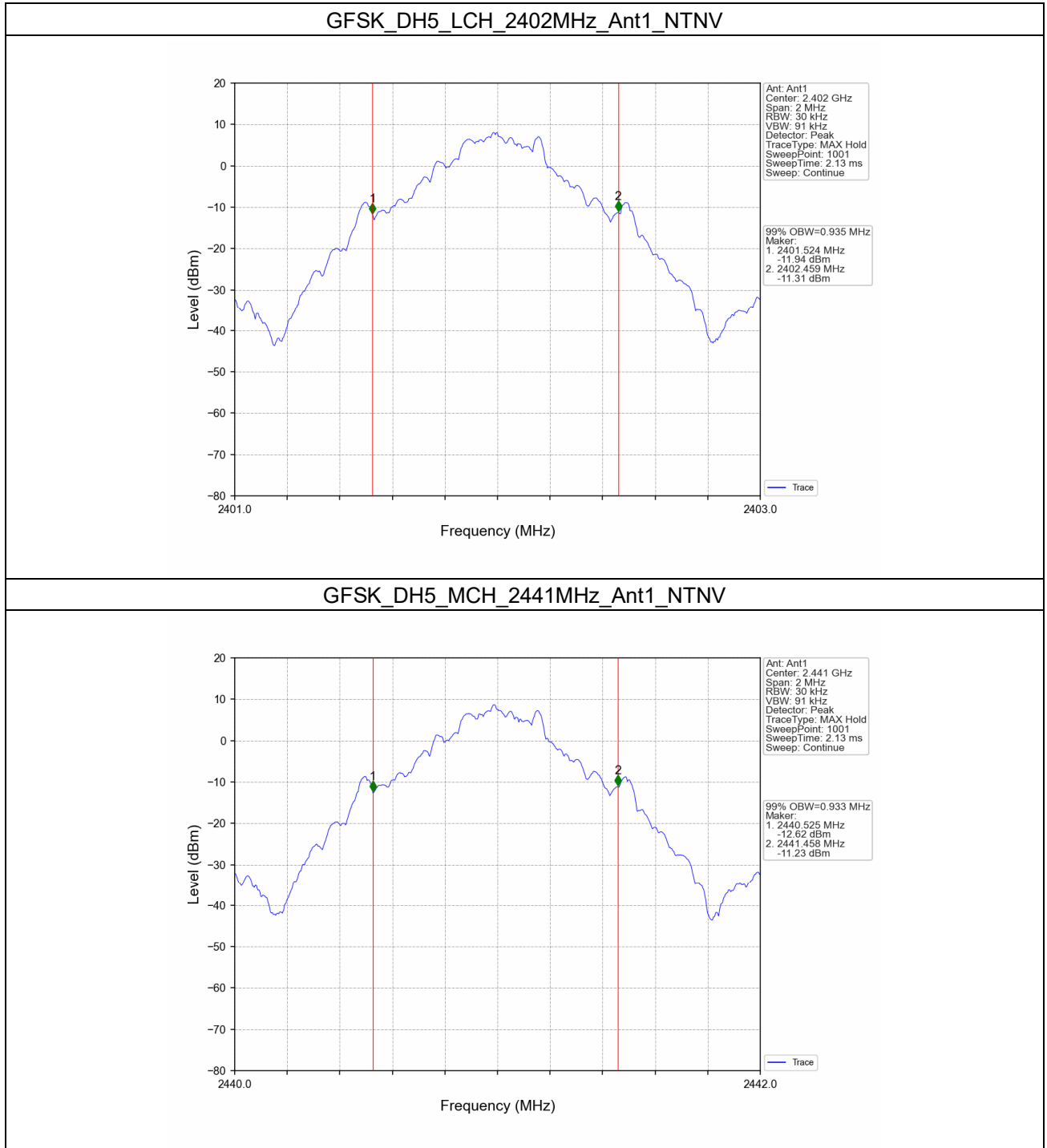
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Page: 120 of 165

2.1.2 Test Graph



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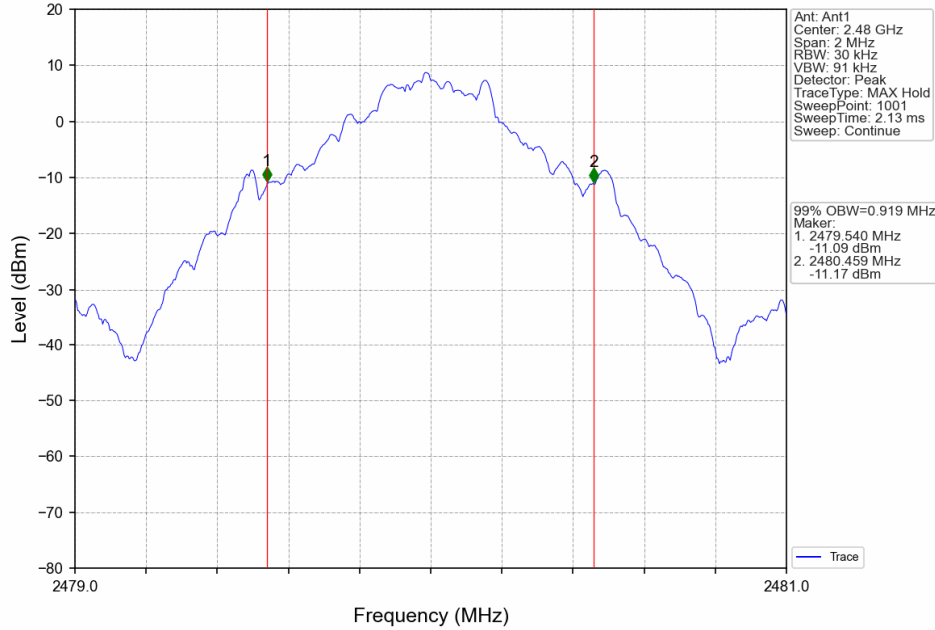
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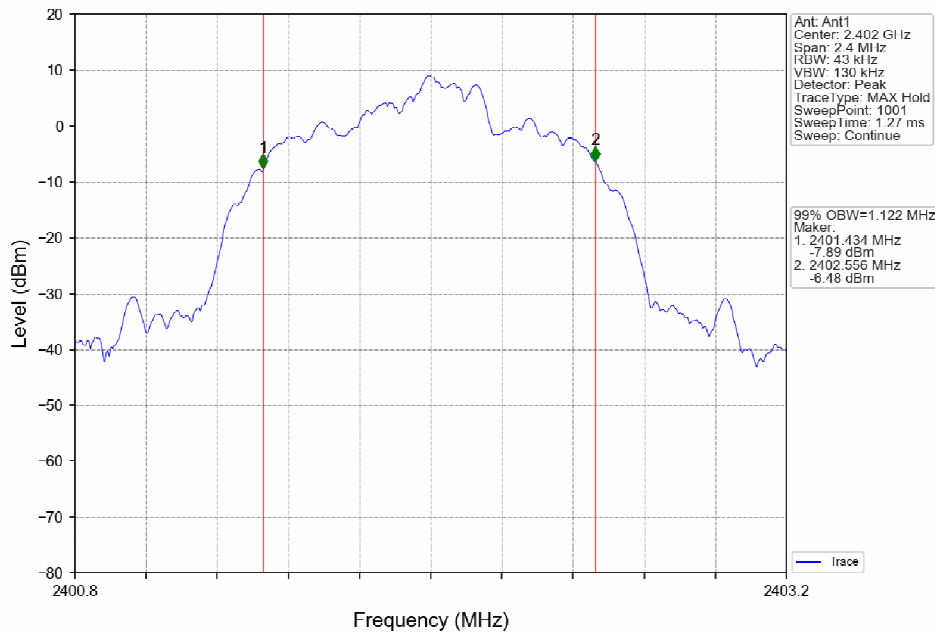
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Page: 121 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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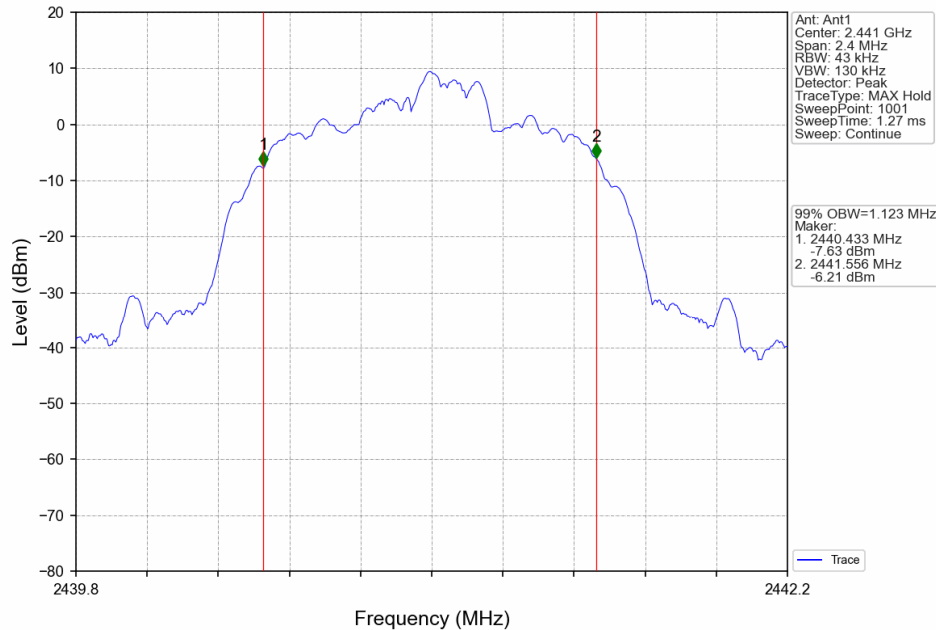
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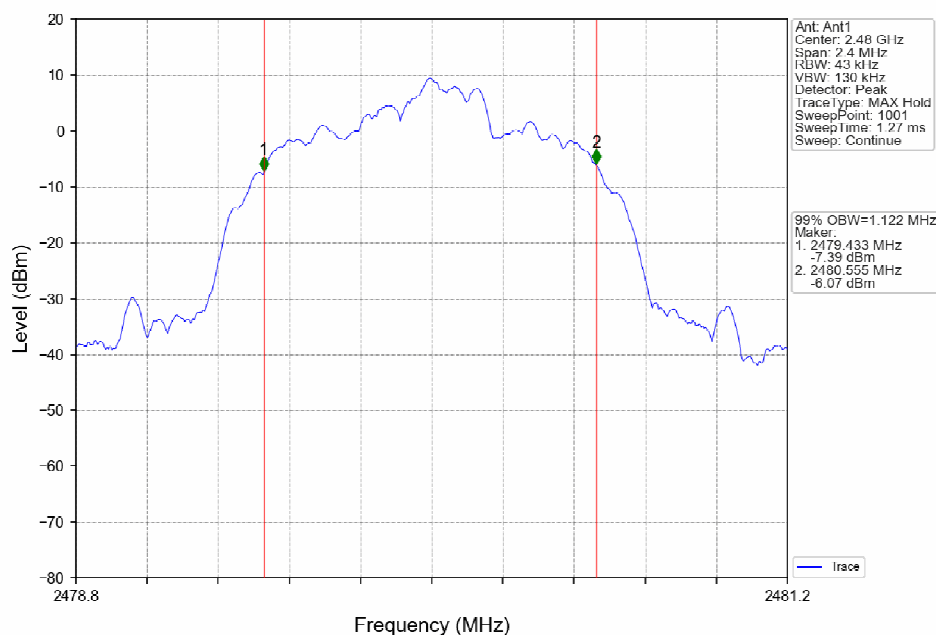
Report No.: FYCR220800034502

Page: 122 of 165

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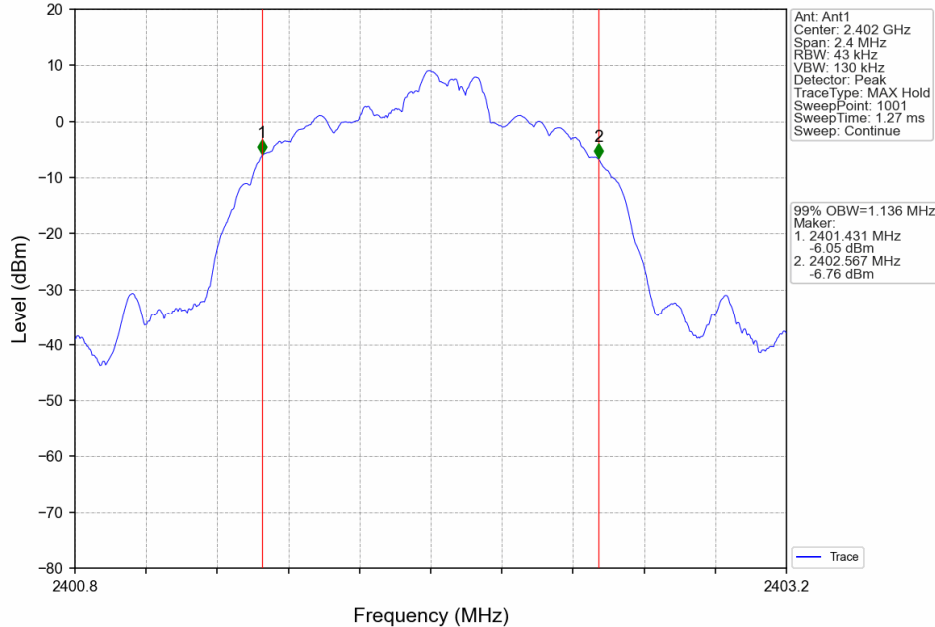
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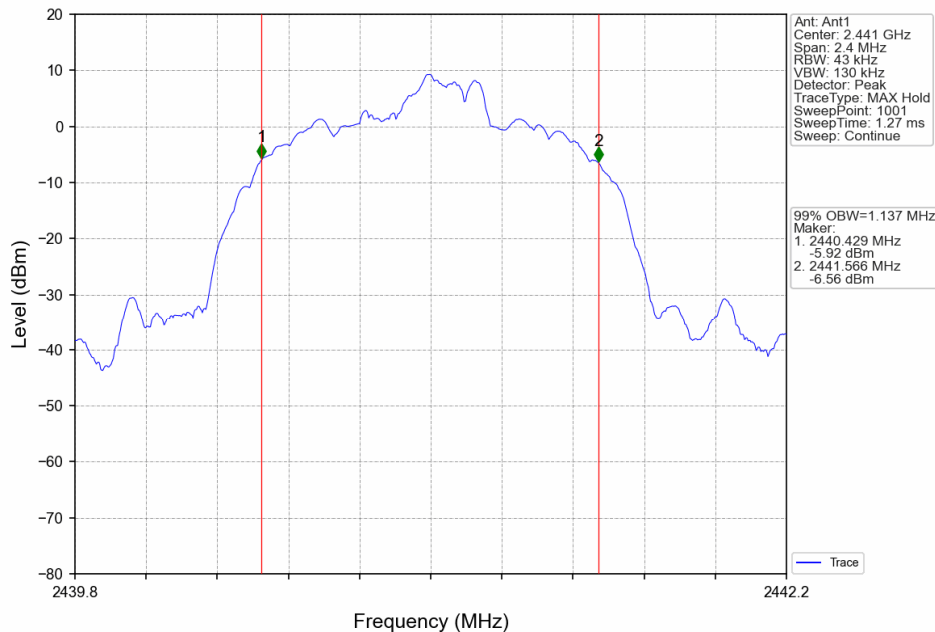
Report No.: FYCR220800034502

Page: 123 of 165

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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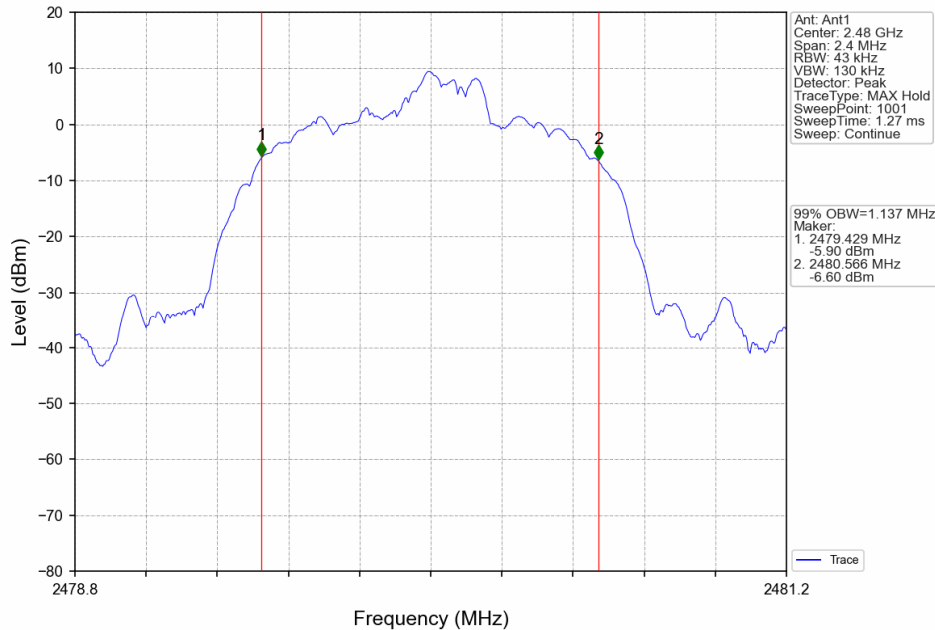
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Page: 124 of 165

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 125 of 165

2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.034	Pass
		2441	DH5	1	1.041	Pass
		2480	DH5	1	1.043	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.217	Pass
		2441	2DH5	1	1.219	Pass
		2480	2DH5	1	1.218	Pass
8DPSK	SISO	2402	3DH5	1	1.239	Pass
		2441	3DH5	1	1.238	Pass
		2480	3DH5	1	1.238	Pass



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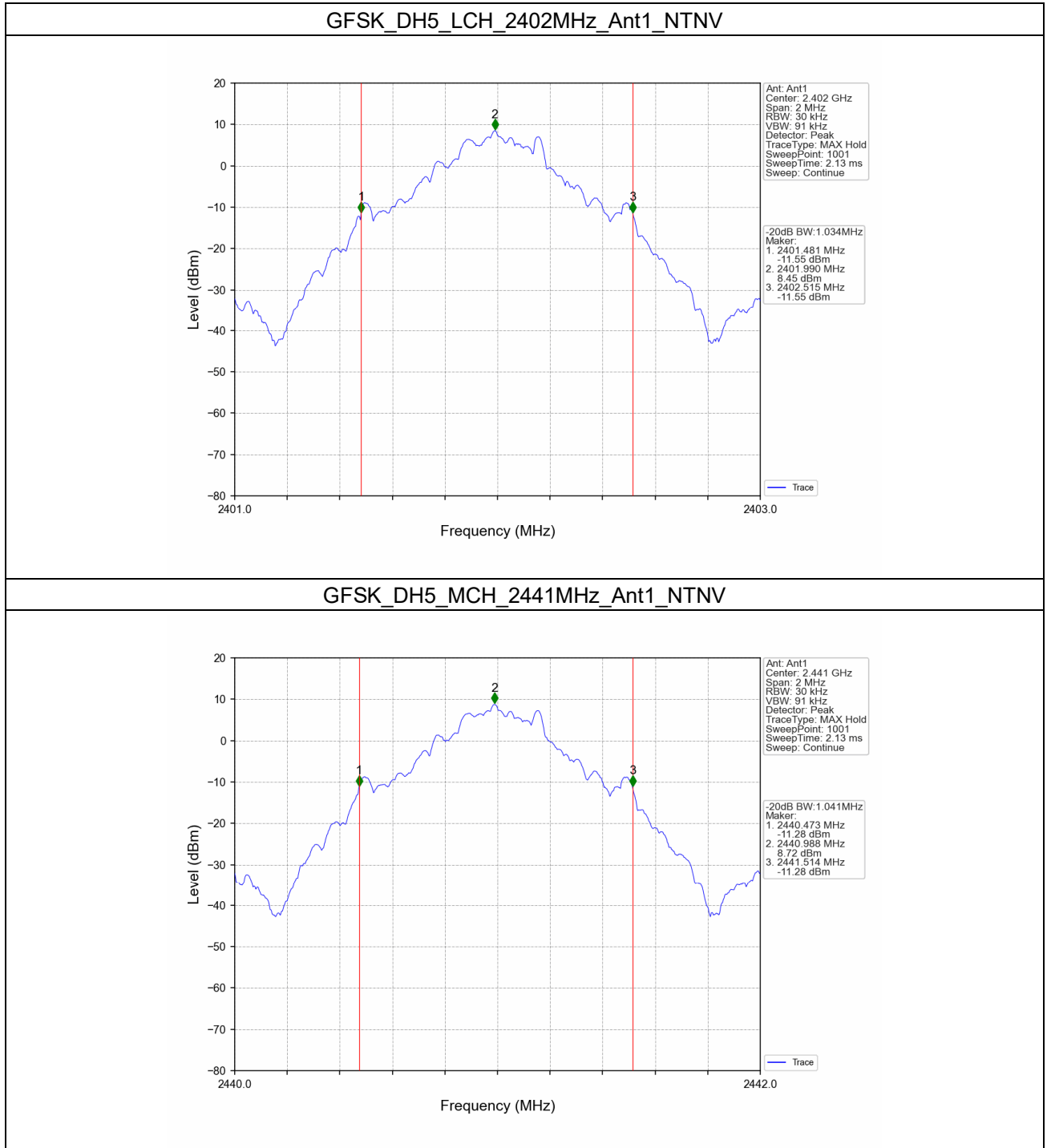
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Page: 126 of 165

2.2.2 Test Graph



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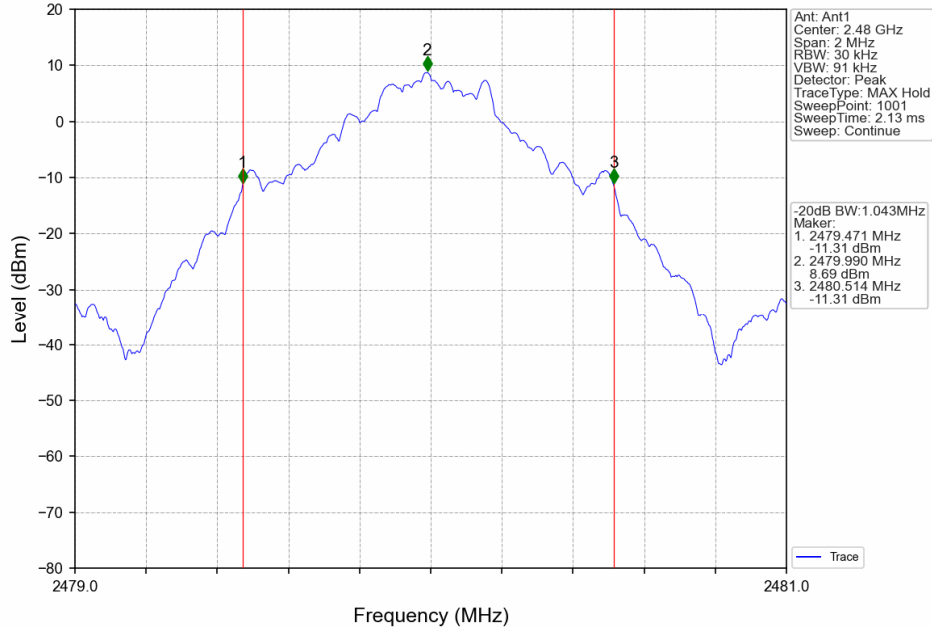
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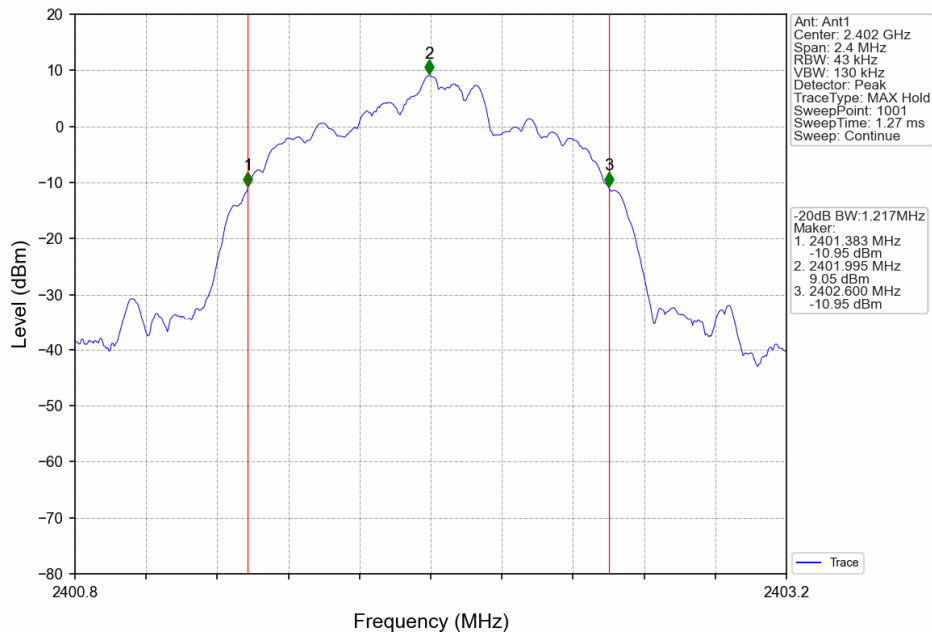
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Page: 127 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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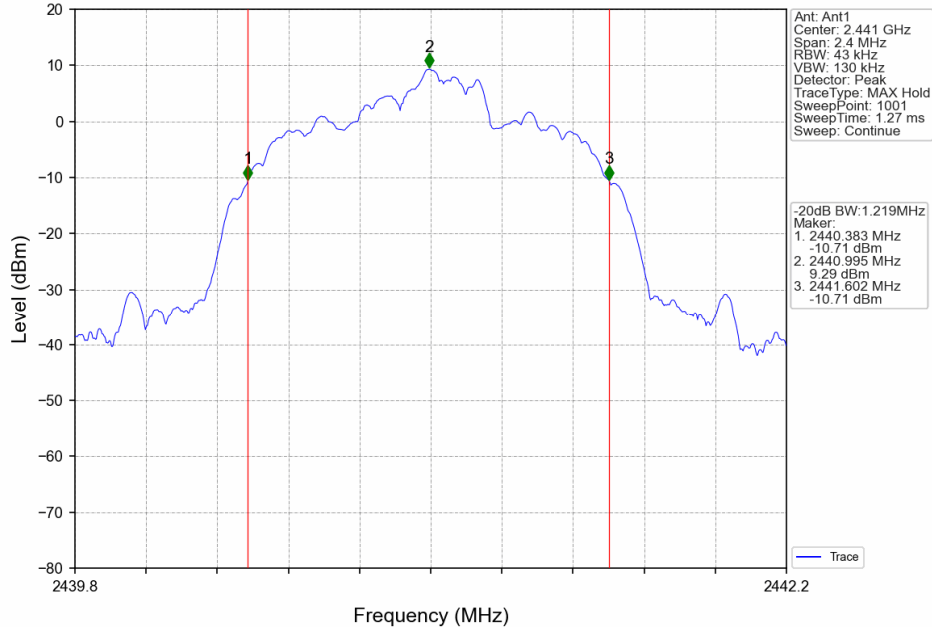
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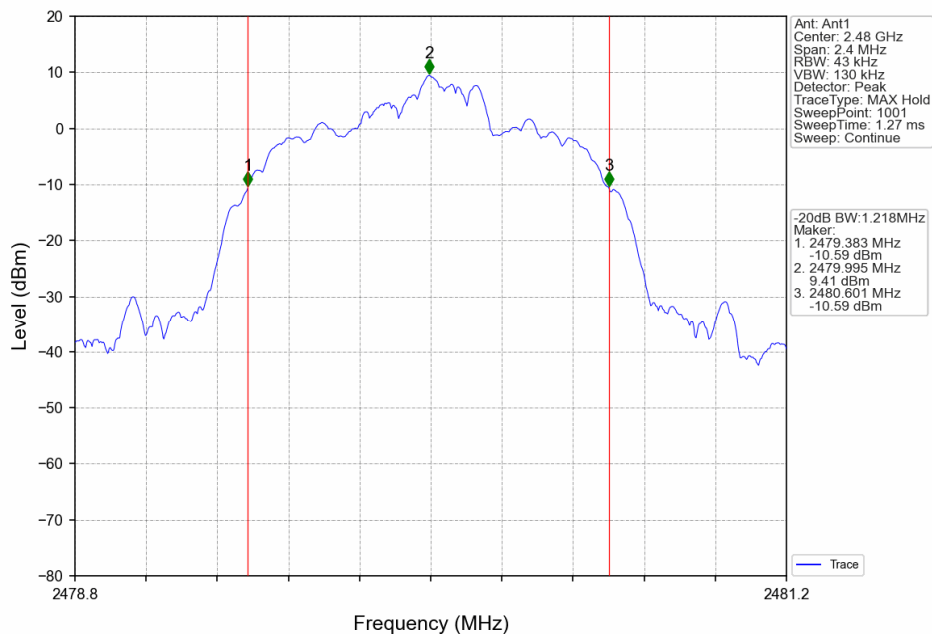
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Page: 128 of 165

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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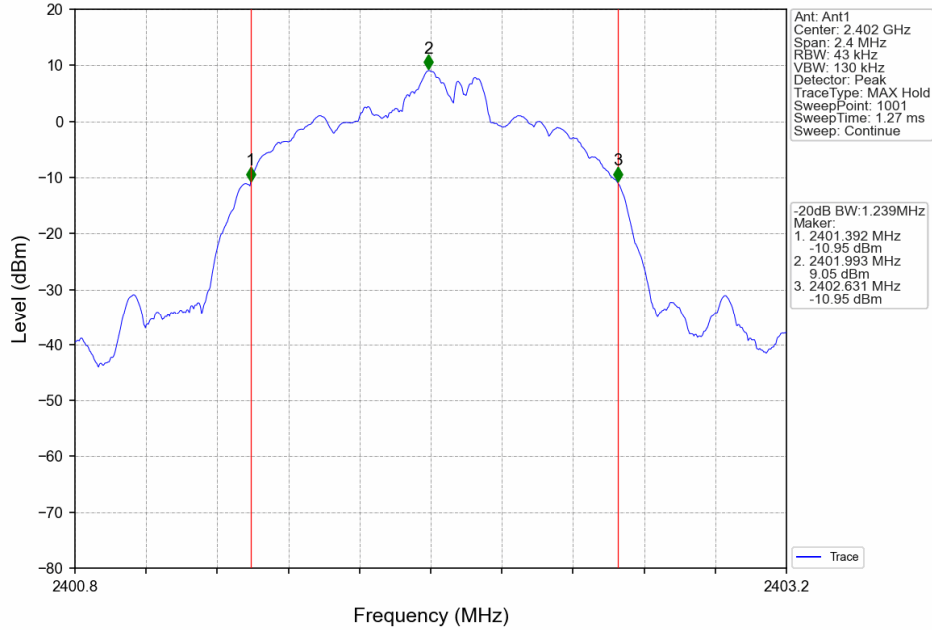
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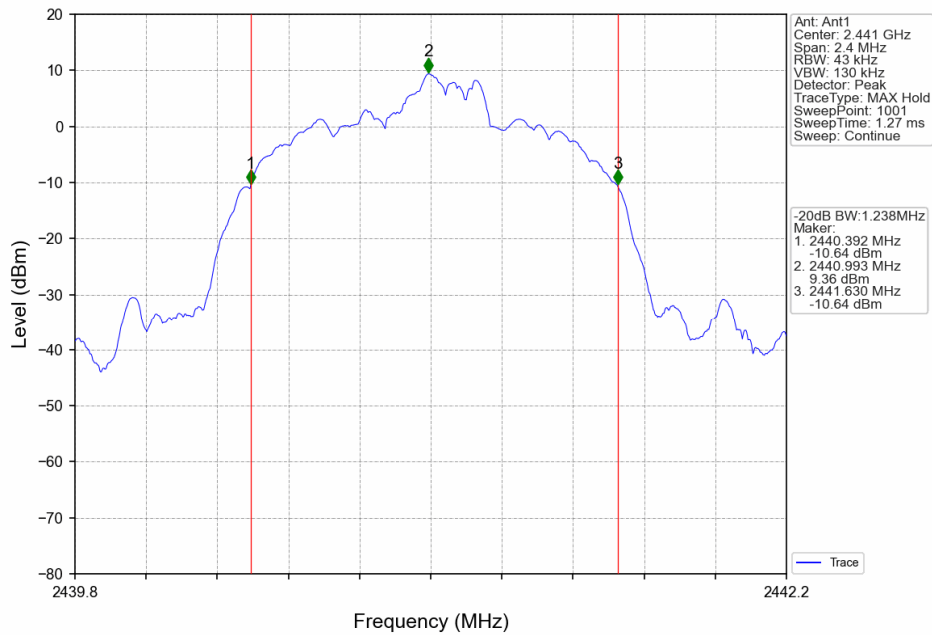
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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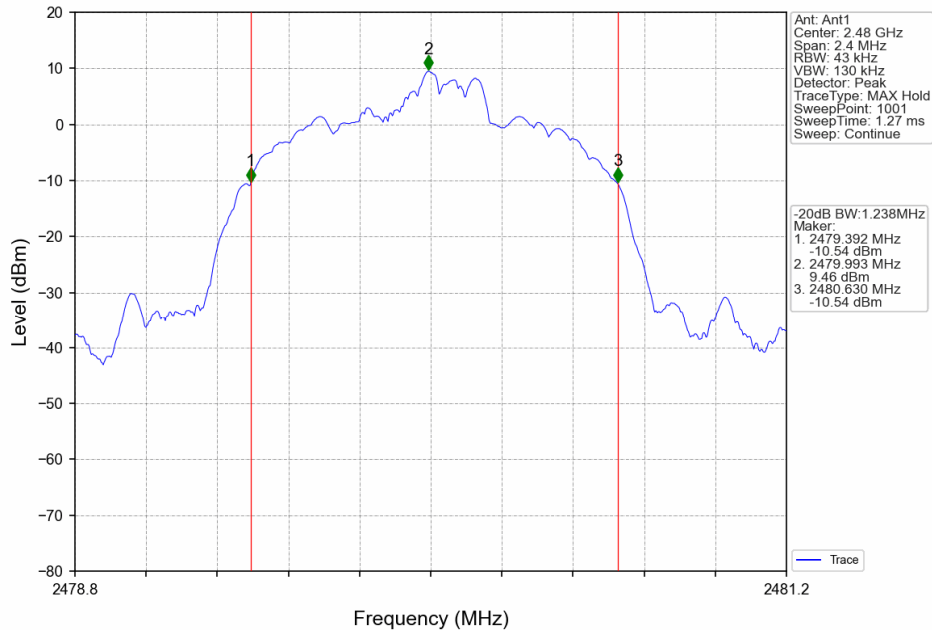
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Page: 131 of 165

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	13.71	<=20.97	Pass
		2441	DH5	14.03	<=20.97	Pass
		2480	DH5	14.01	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.71	<=20.97	Pass
		2441	2DH5	14.25	<=20.97	Pass
		2480	2DH5	14.07	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.71	<=20.97	Pass
		2441	3DH5	14.06	<=20.97	Pass
		2480	3DH5	13.99	<=20.97	Pass



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Report No.: FYCR220800034502

Page: 132 of 165

4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.043	≥ 0.695	Pass
PI/4DQPSK	SISO	HOPP	2DH5	0.984	1.219	≥ 0.813	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.239	≥ 0.826	Pass



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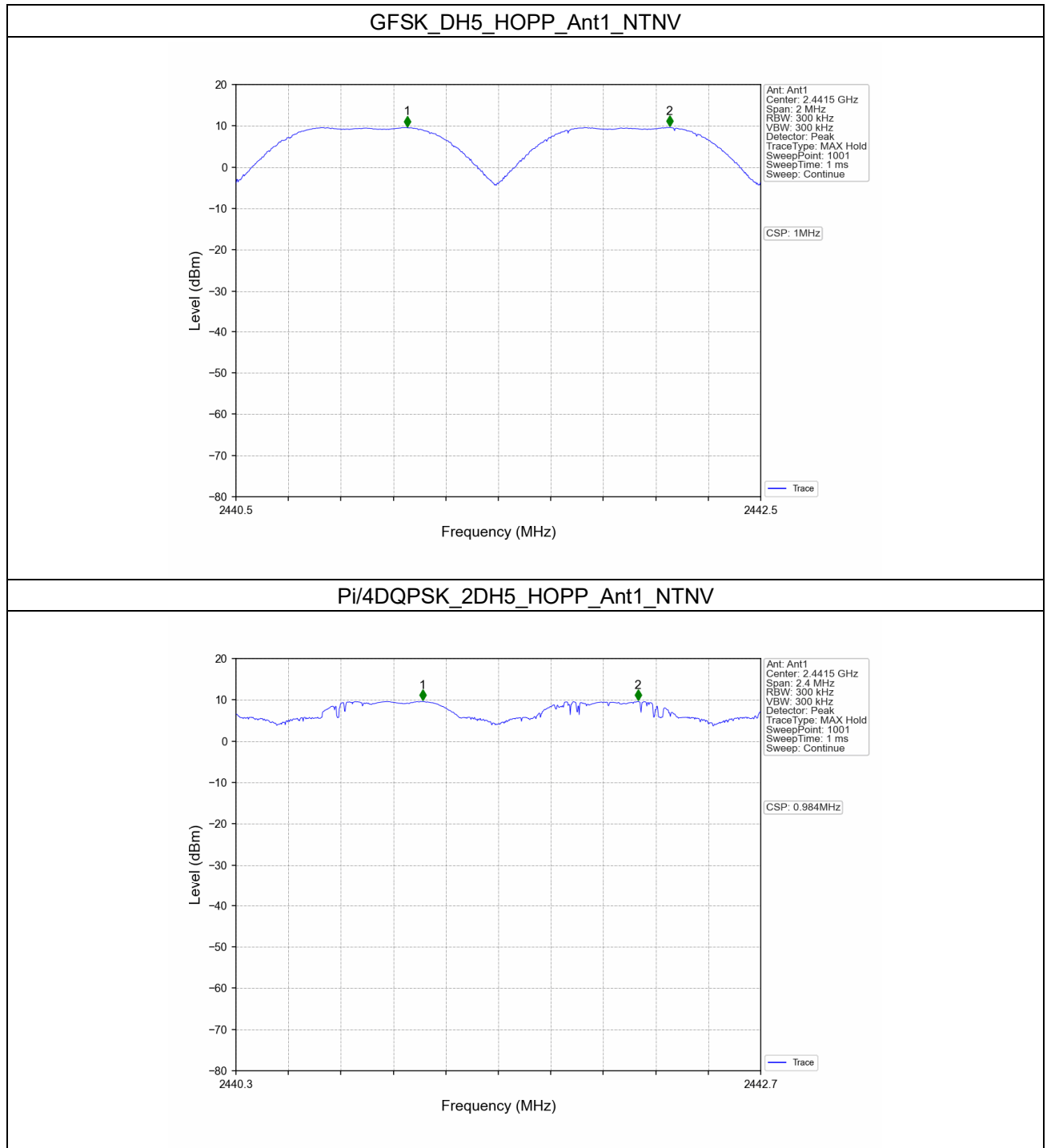
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Page: 133 of 165

4.1.2 Test Graph



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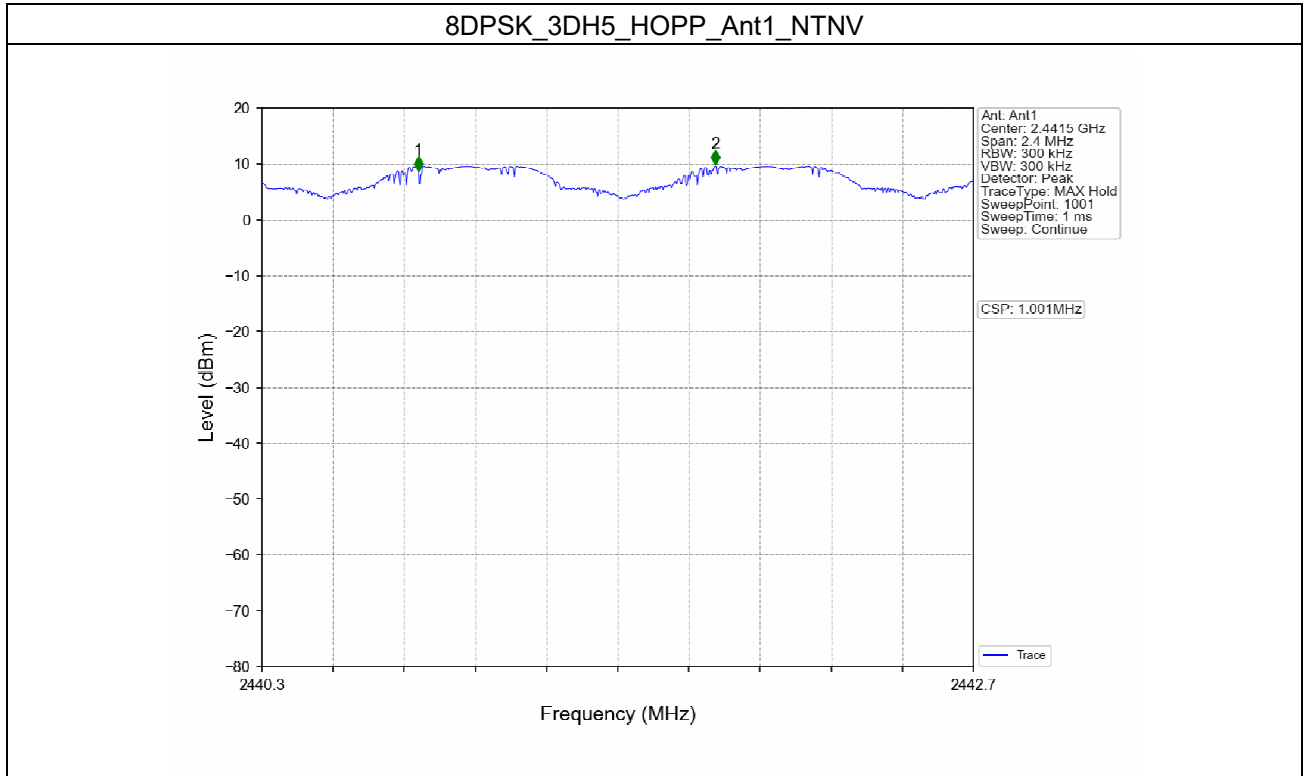
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 135 of 165

5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

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
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

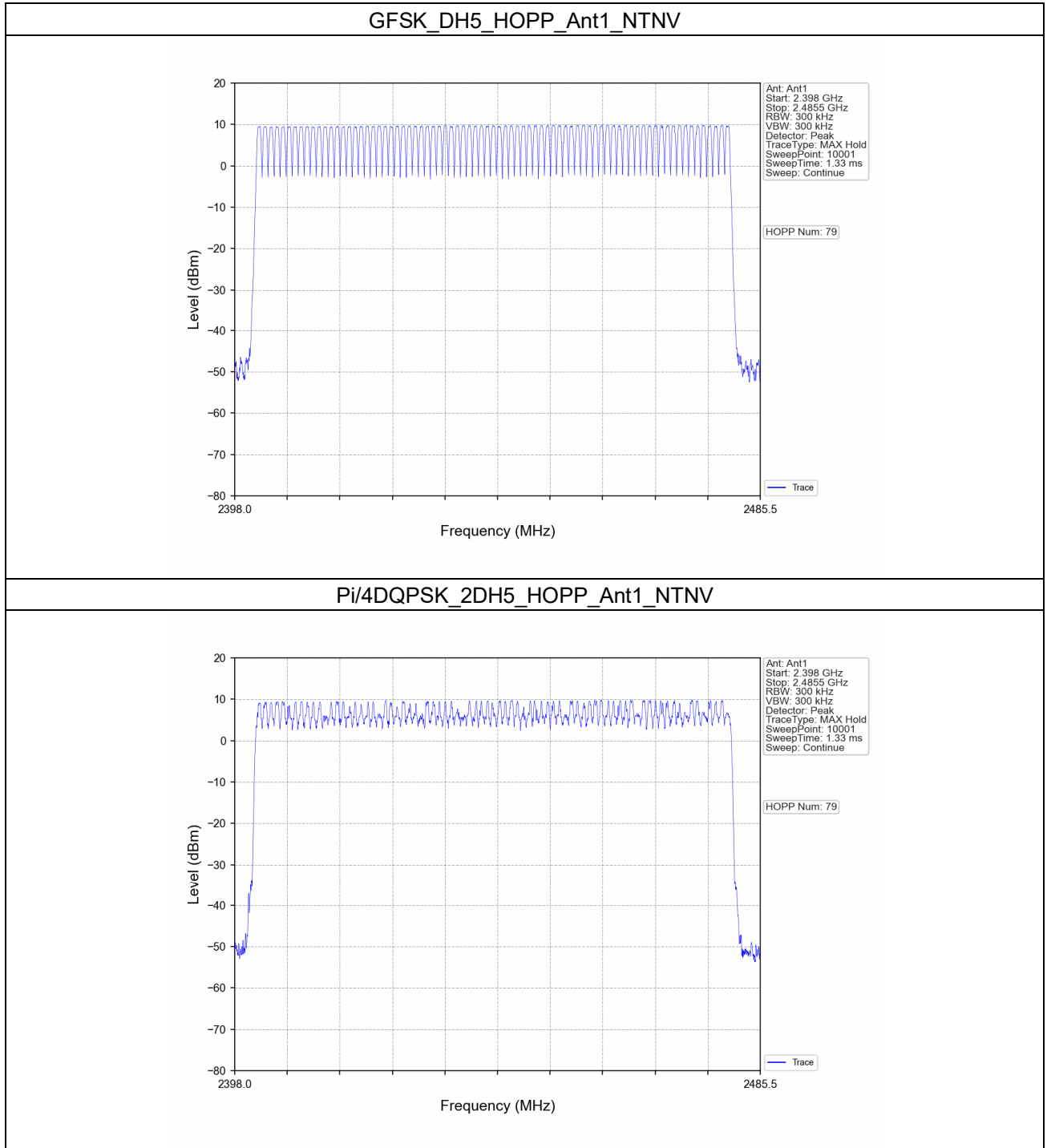


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5.1.2 Test Graph



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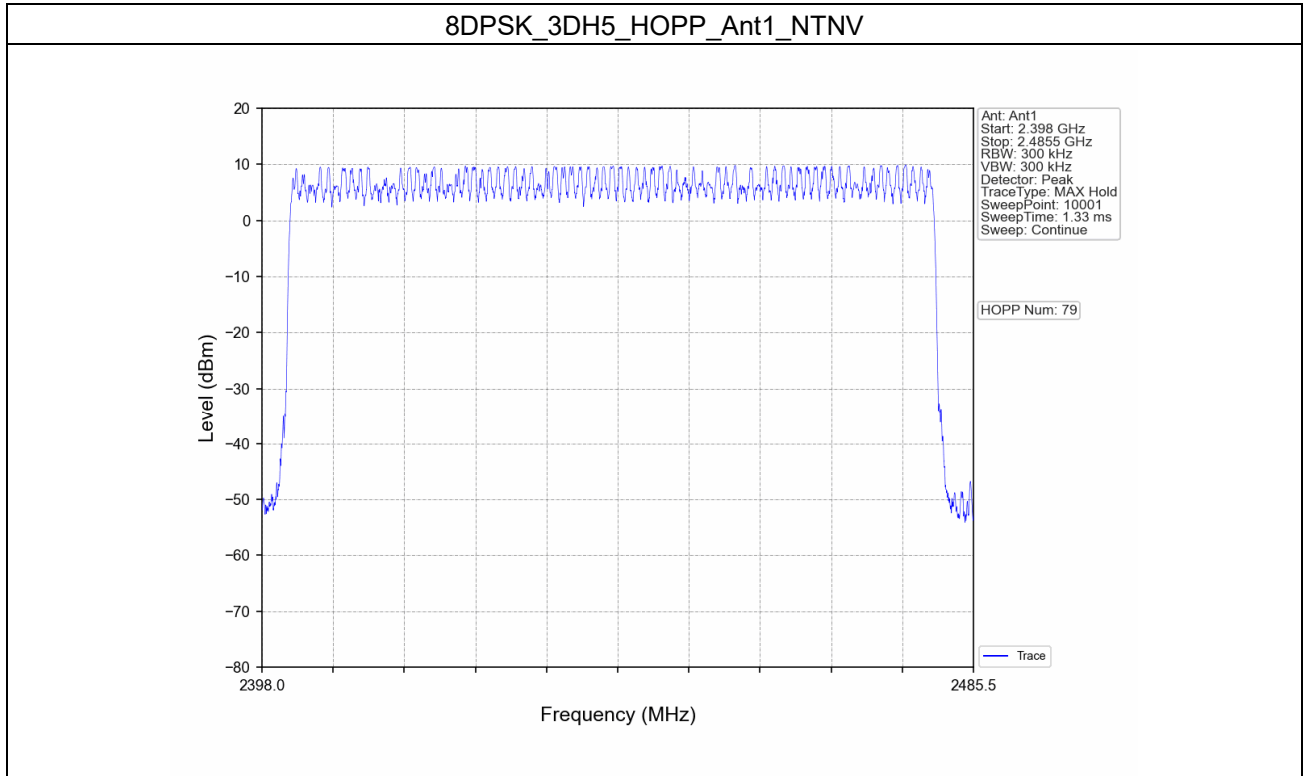
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 137 of 165



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 138 of 165

6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

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	0.414	31.600	320	132.480	<=400	Pass
			DH3	1.668	31.600	151	251.868	<=400	Pass
			DH5	2.916	31.600	112	326.592	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.424	31.600	321	136.104	<=400	Pass
			2DH3	1.674	31.600	150	251.100	<=400	Pass
			2DH5	2.924	31.600	120	350.880	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.424	31.600	320	135.680	<=400	Pass
			3DH3	1.670	31.600	152	253.840	<=400	Pass
			3DH5	2.924	31.600	111	324.564	<=400	Pass



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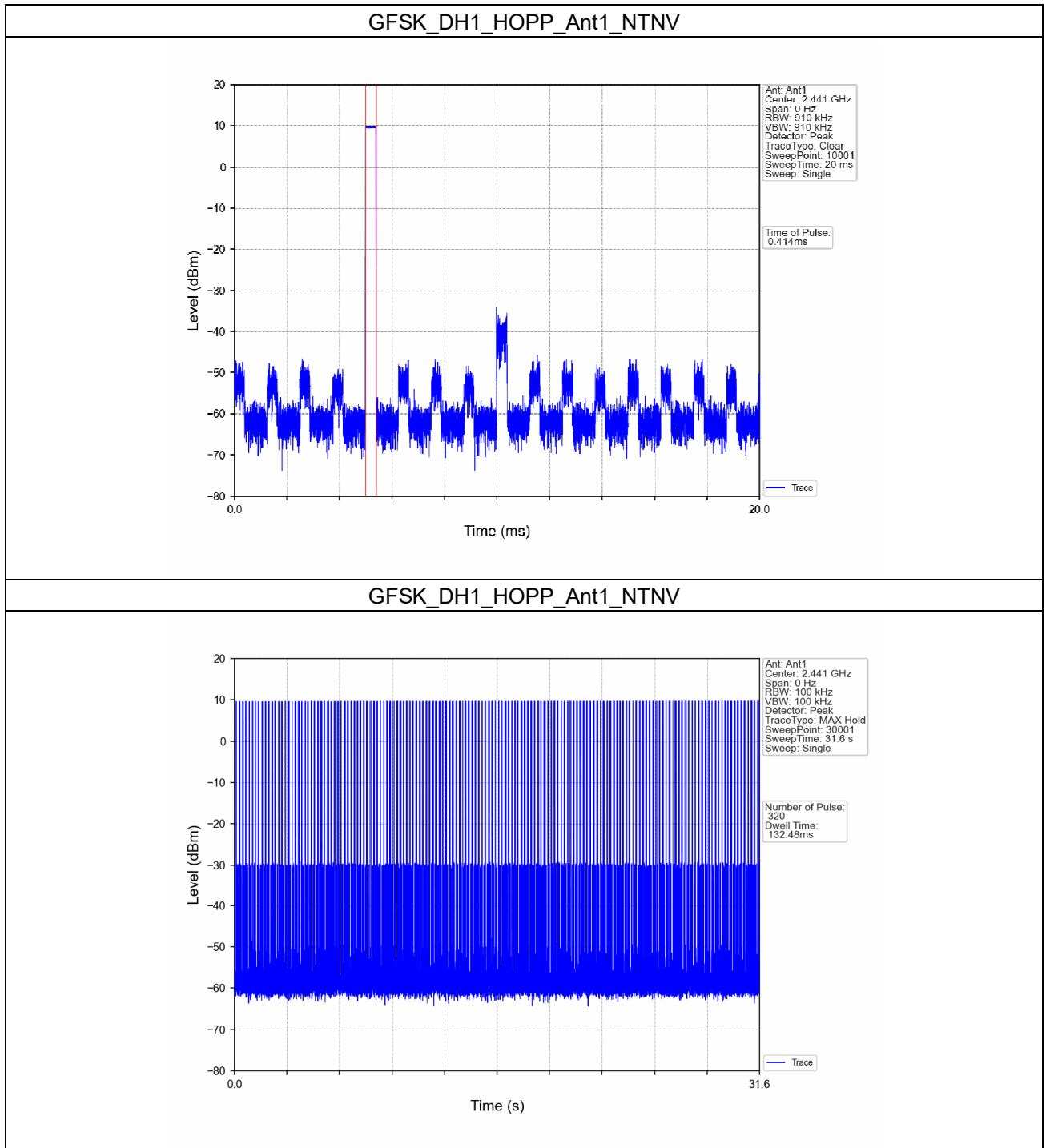
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Report No.: FYCR220800034502

Page: 139 of 165

6.1.2 Test Graph



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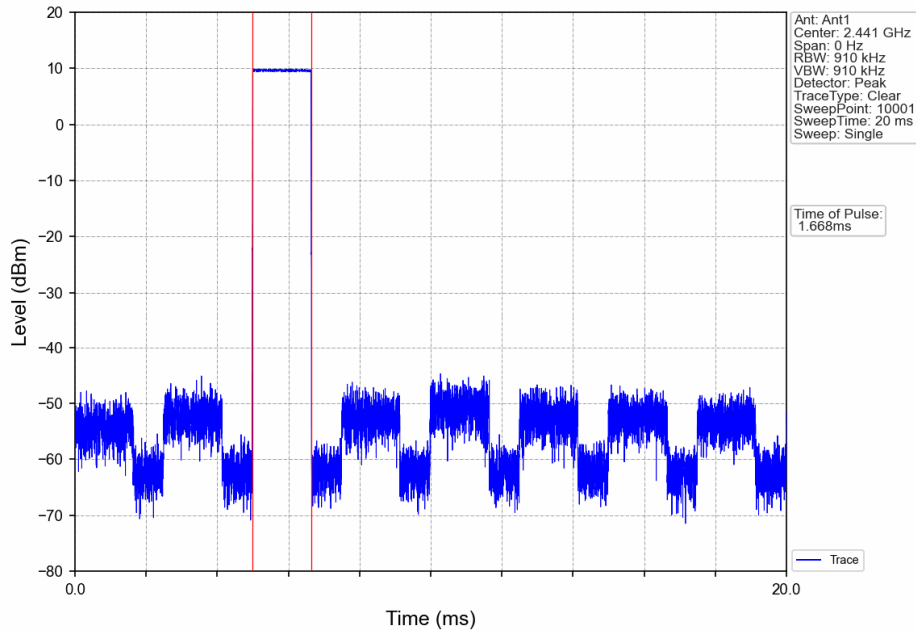
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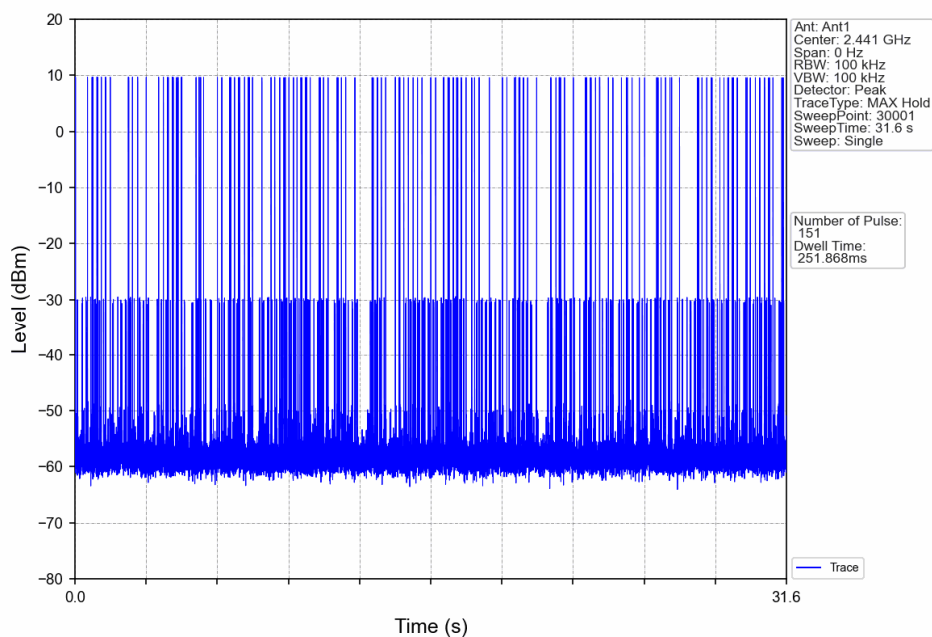
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Page: 140 of 165

GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV



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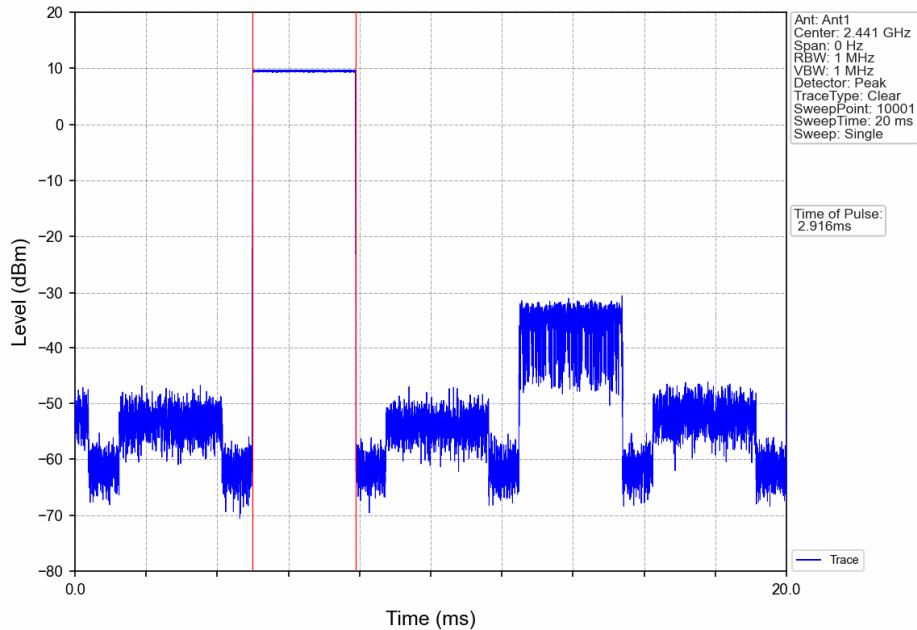
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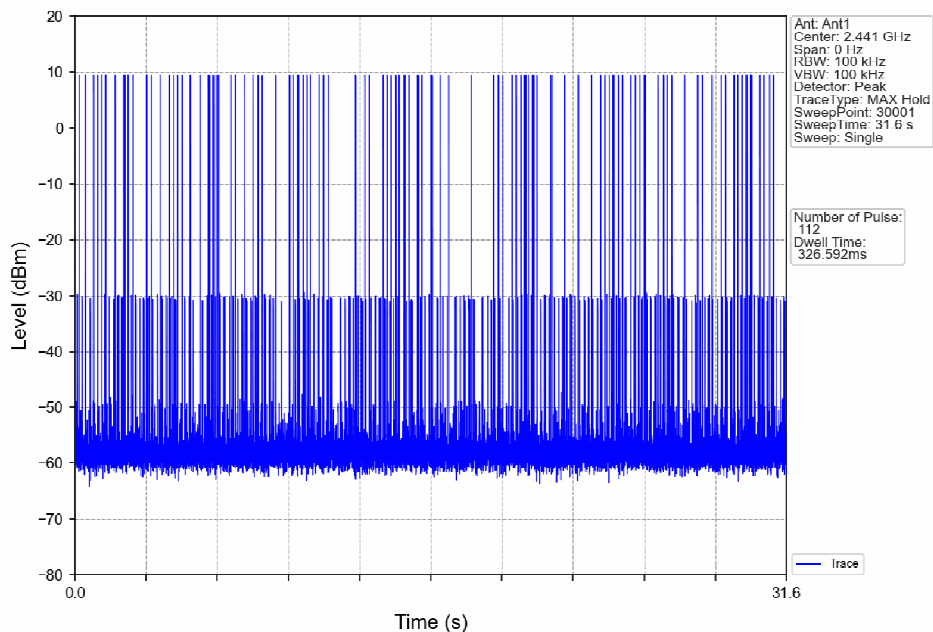
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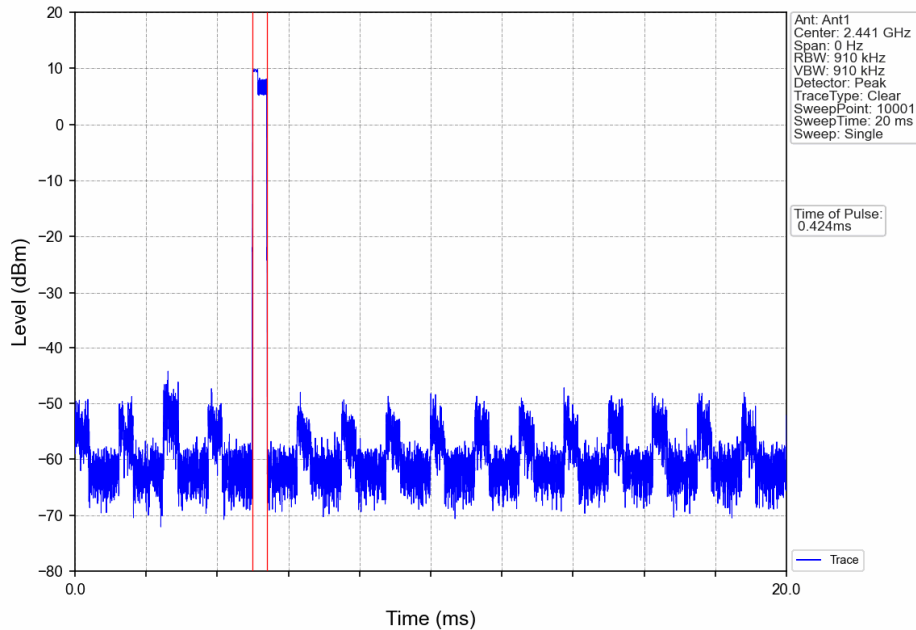
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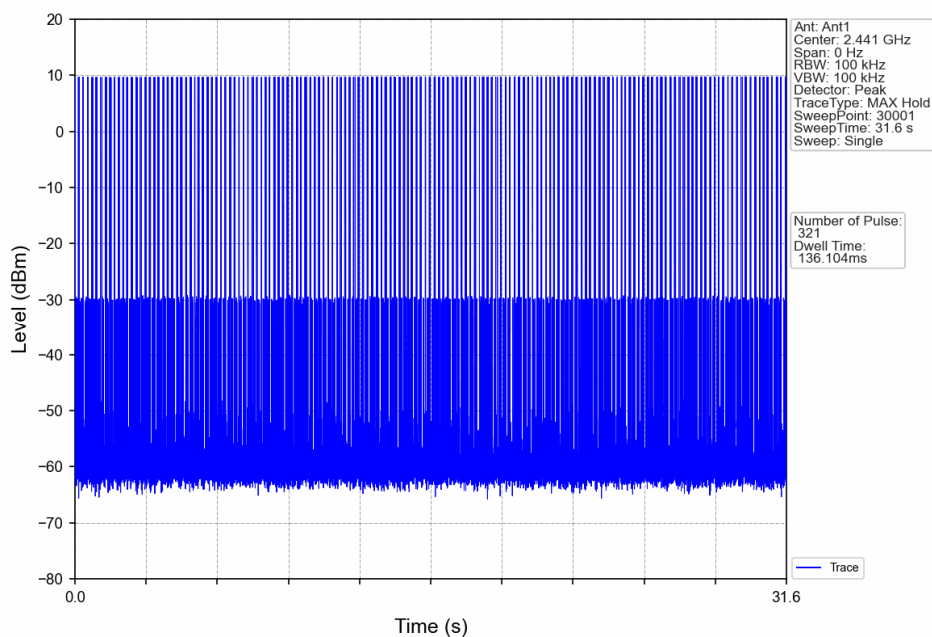
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Page: 142 of 165

Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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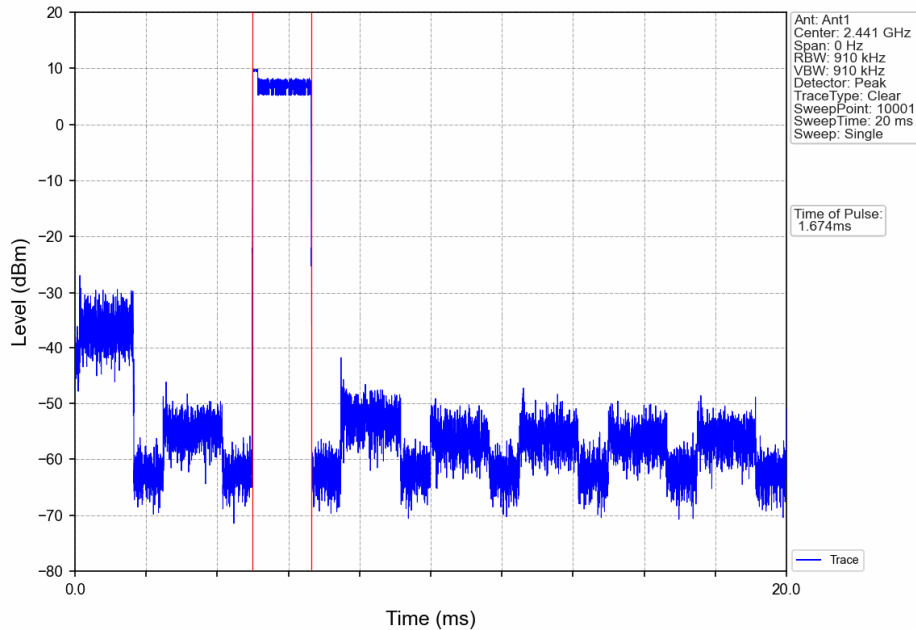
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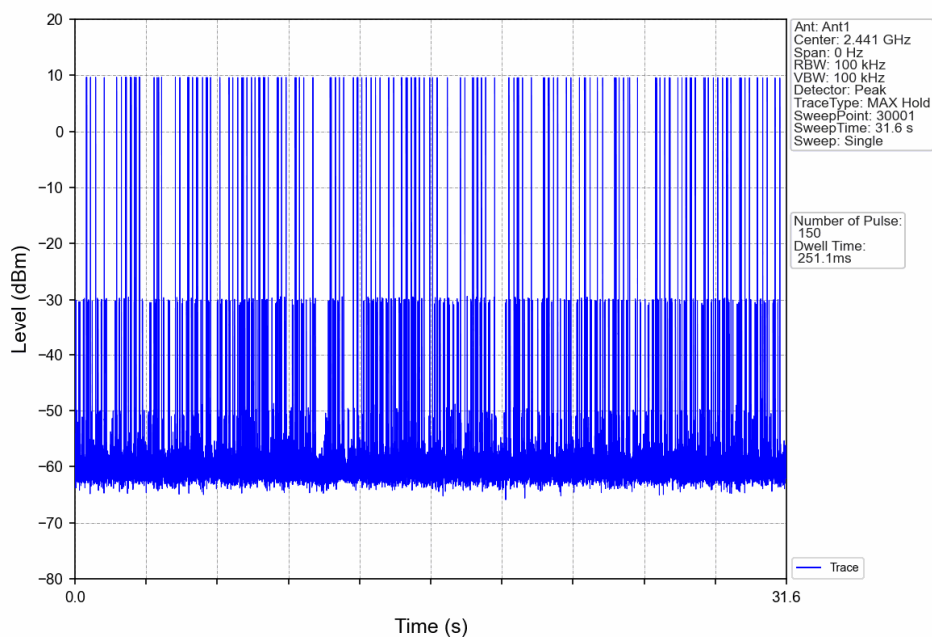
Report No.: FYCR220800034502

Page: 143 of 165

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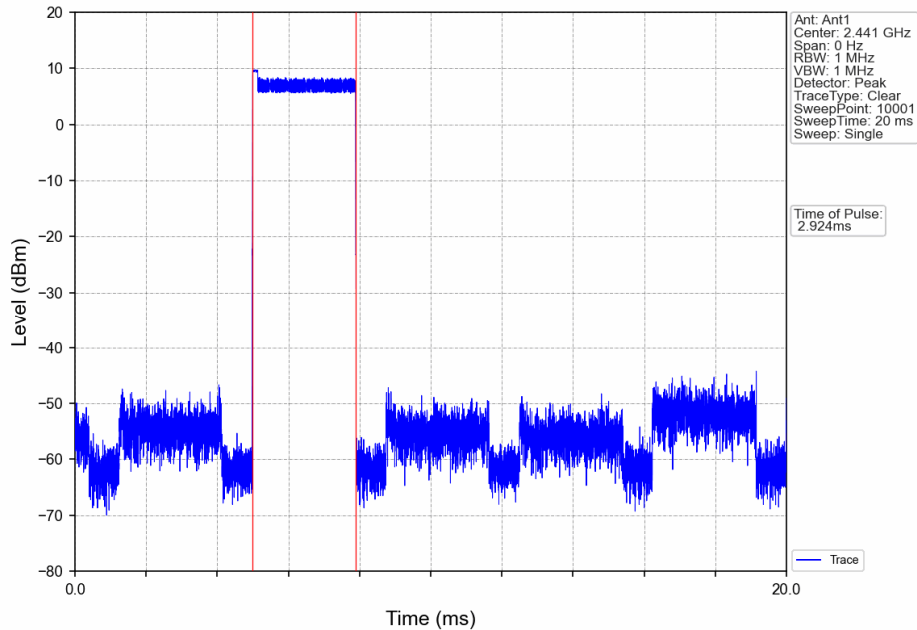
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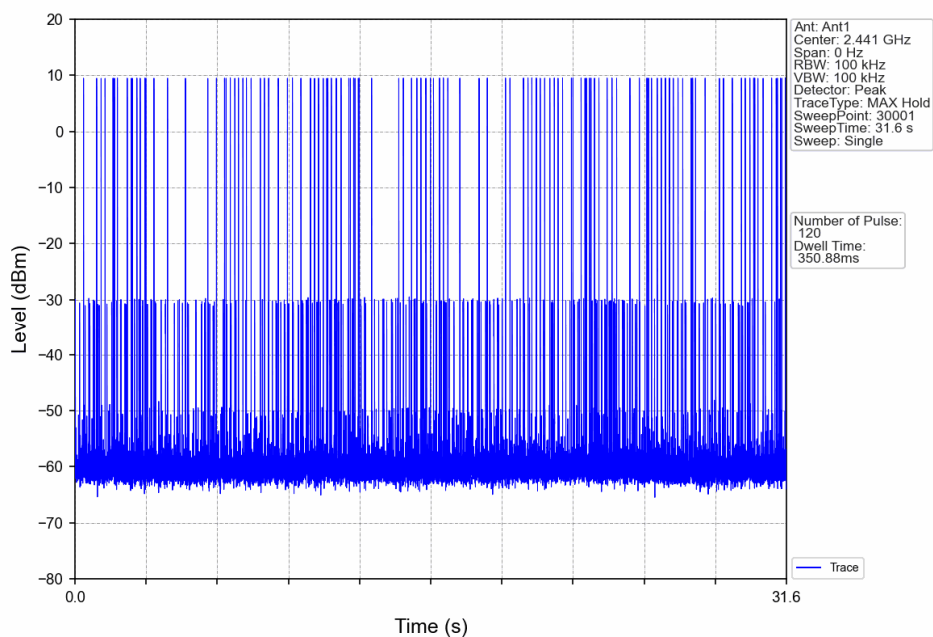
Report No.: FYCR220800034502

Page: 144 of 165

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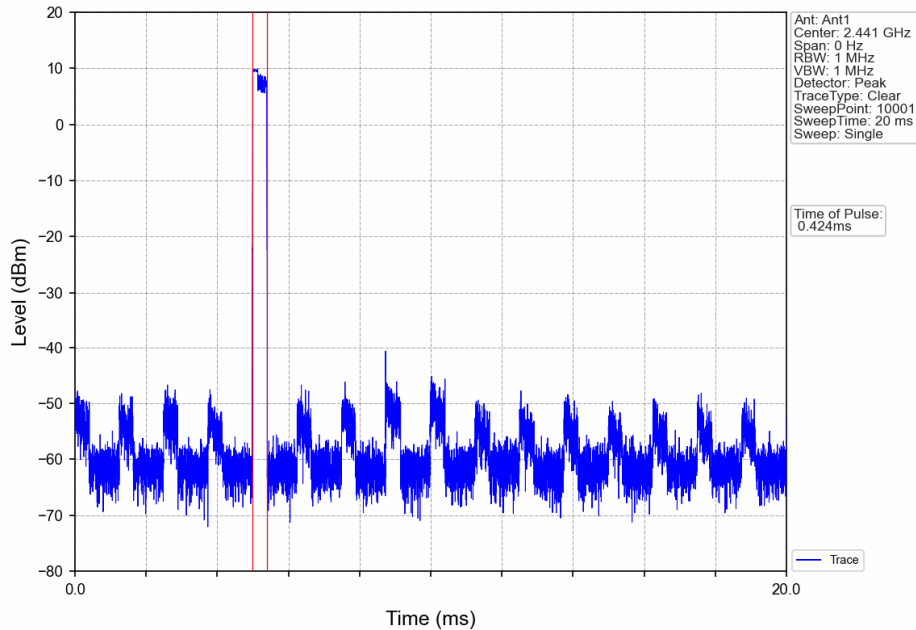
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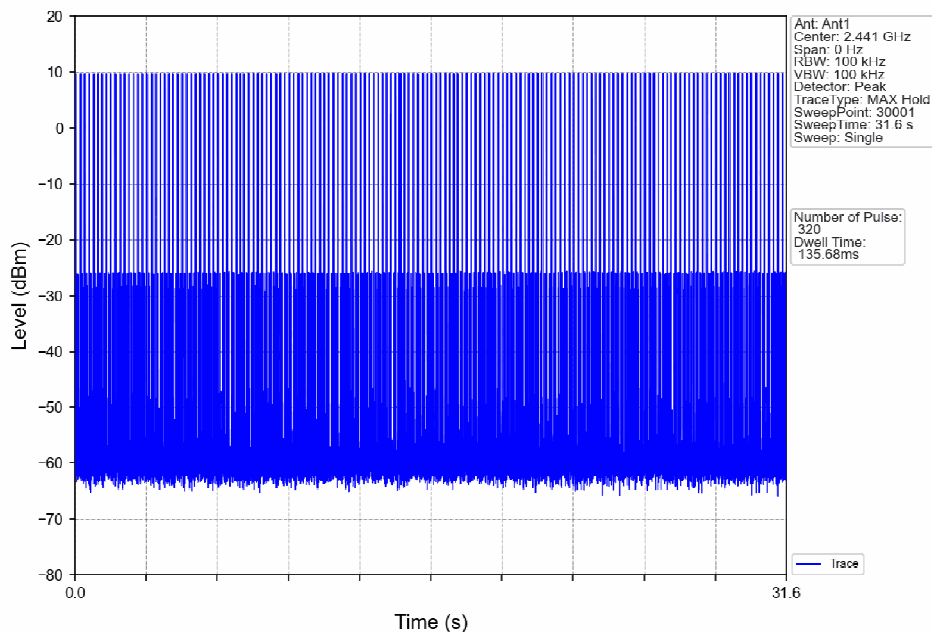
Report No.: FYCR220800034502

Page: 145 of 165

8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV



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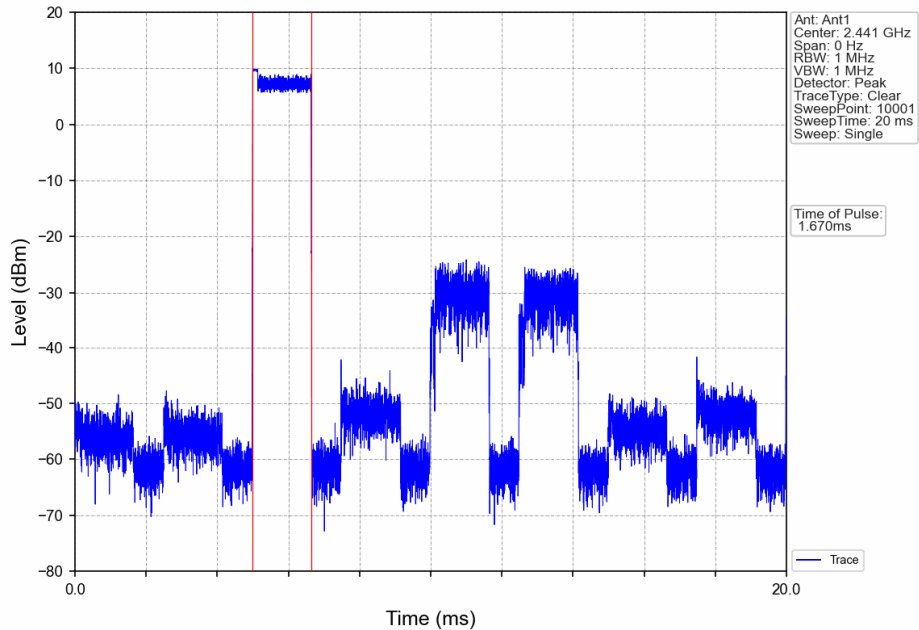
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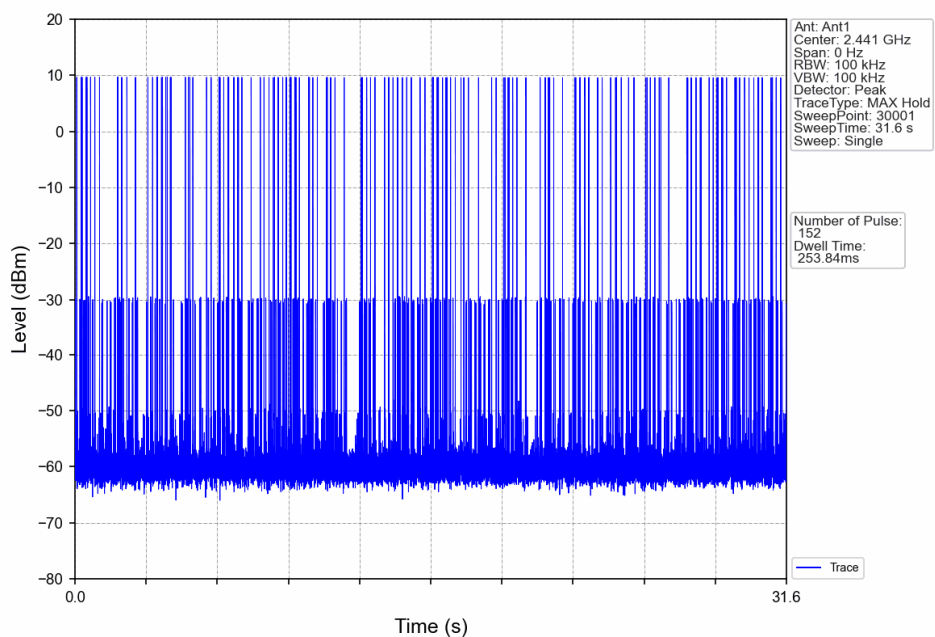
Report No.: FYCR220800034502

Page: 146 of 165

8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH3_HOPP_Ant1_NTNV



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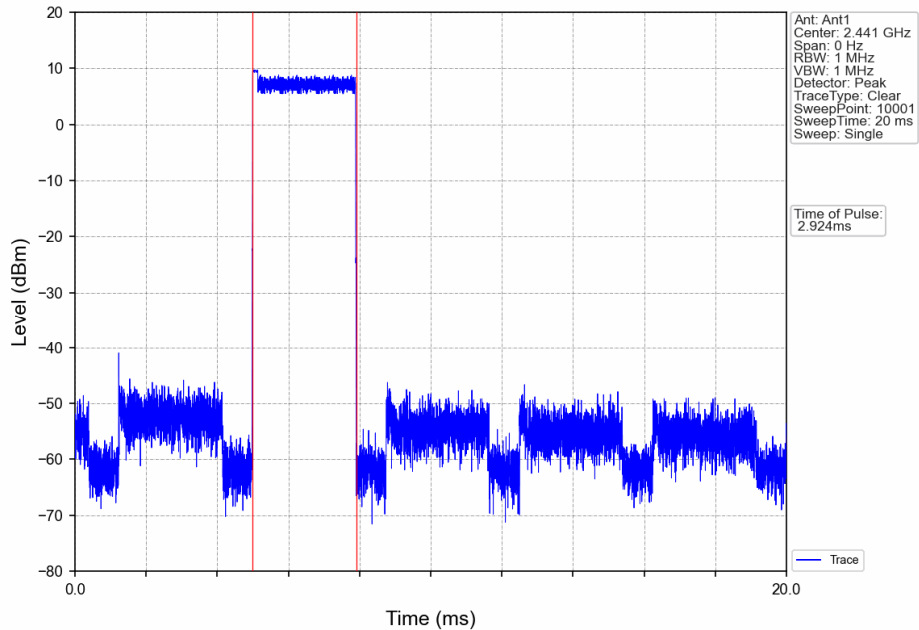
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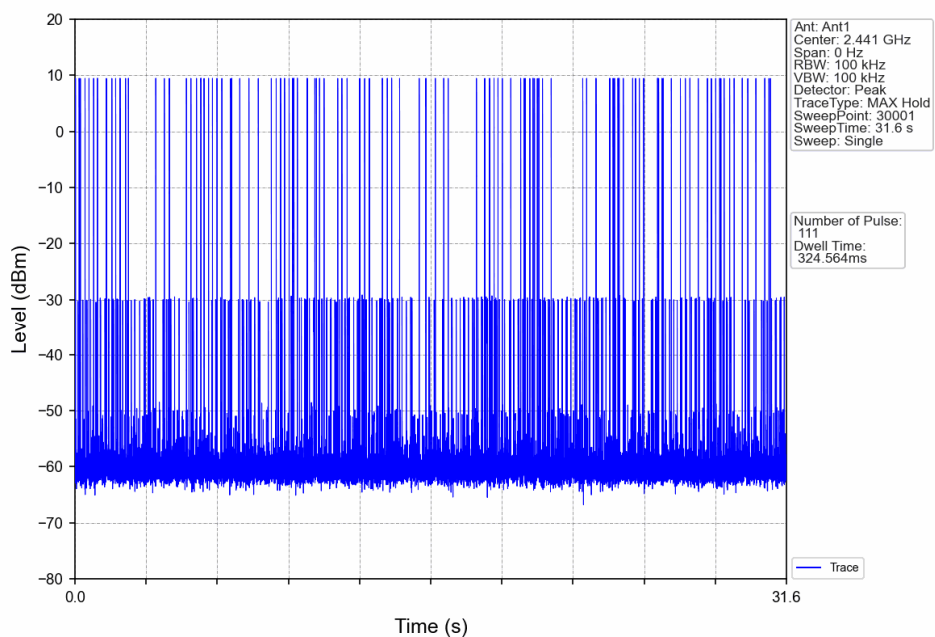
Report No.: FYCR220800034502

Page: 147 of 165

8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220800034502

Page: 148 of 165

7. Unwanted Emissions InStandard Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.50
		2441	DH5	1	13.85
		2480	DH5	1	13.83
Pi/4DQPSK	SISO	2402	2DH5	1	13.49
		2441	2DH5	1	13.98
		2480	2DH5	1	13.87
8DPSK	SISO	2402	3DH5	1	13.50
		2441	3DH5	1	13.88
		2480	3DH5	1	13.80



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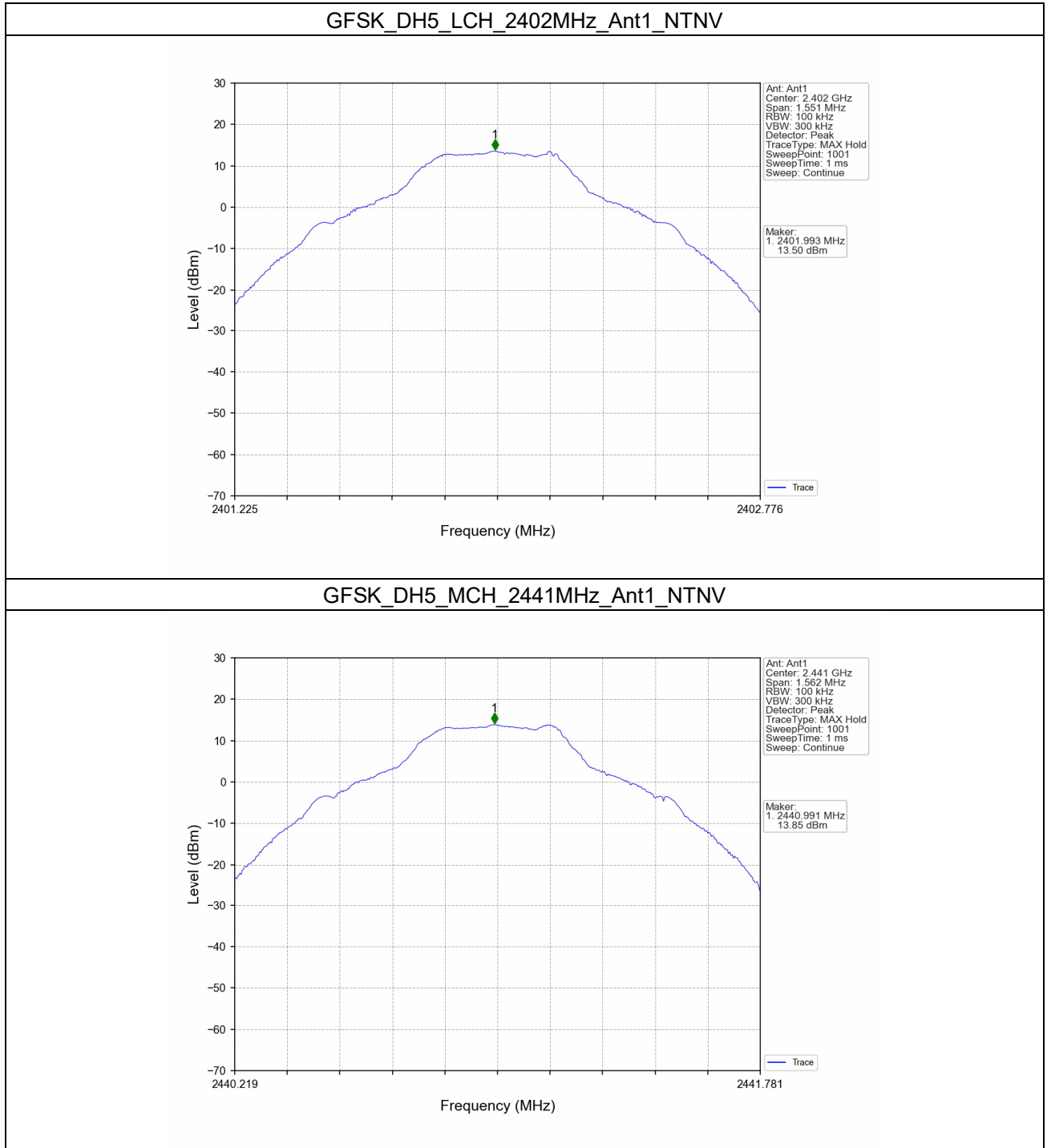
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Page: 149 of 165

7.1.2 Test Graph



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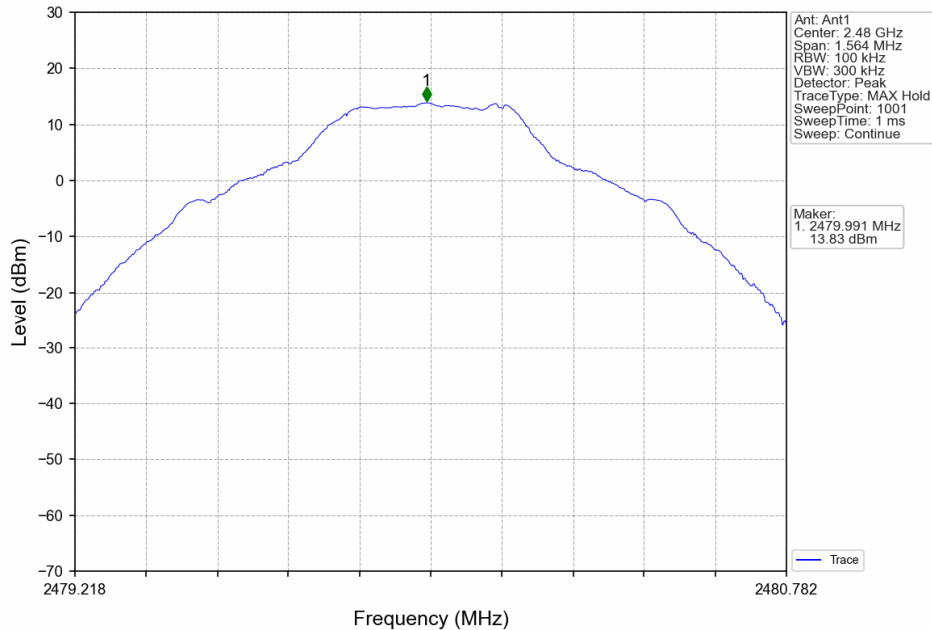
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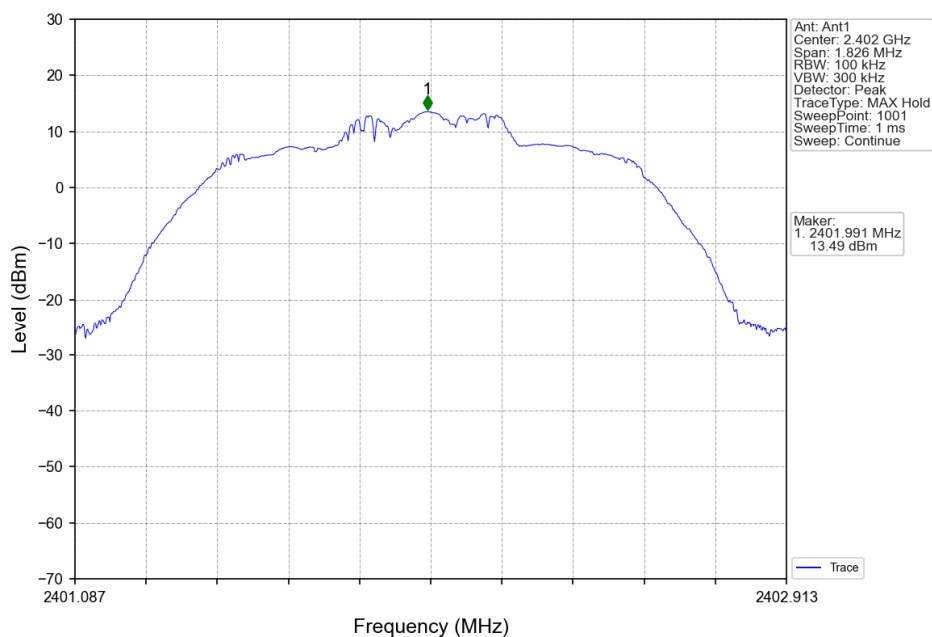
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Page: 150 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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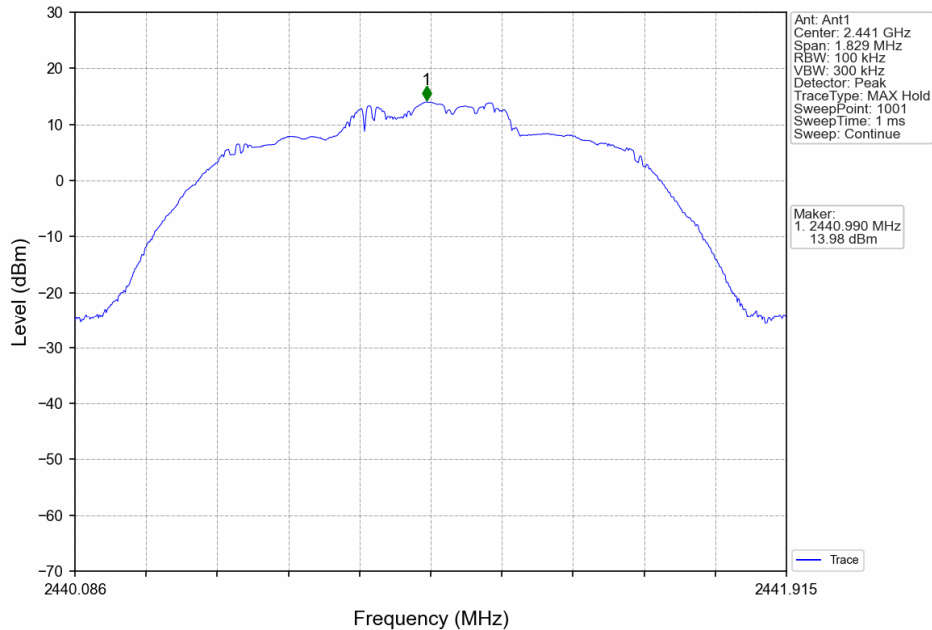
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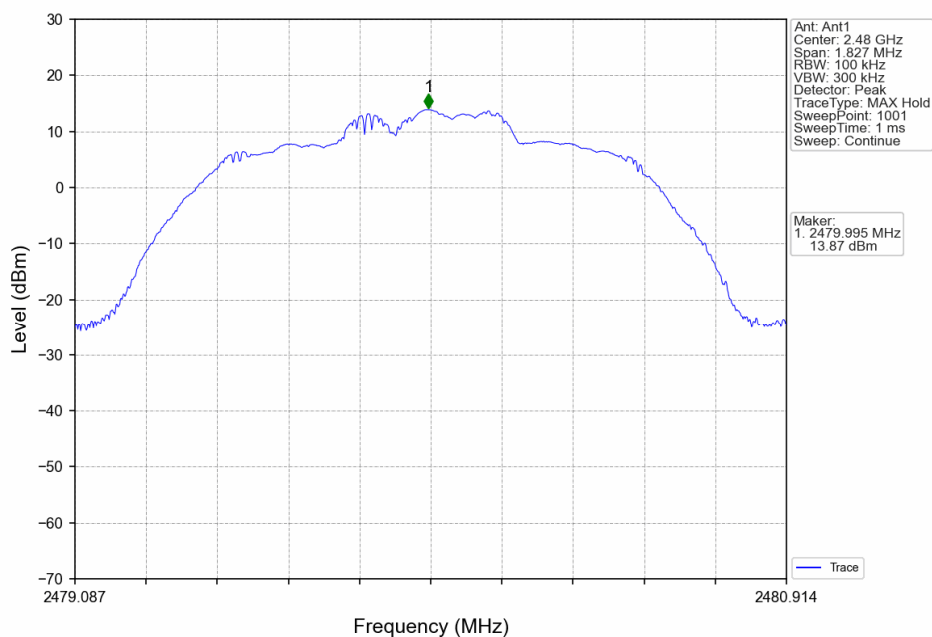
Report No.: FYCR220800034502

Page: 151 of 165

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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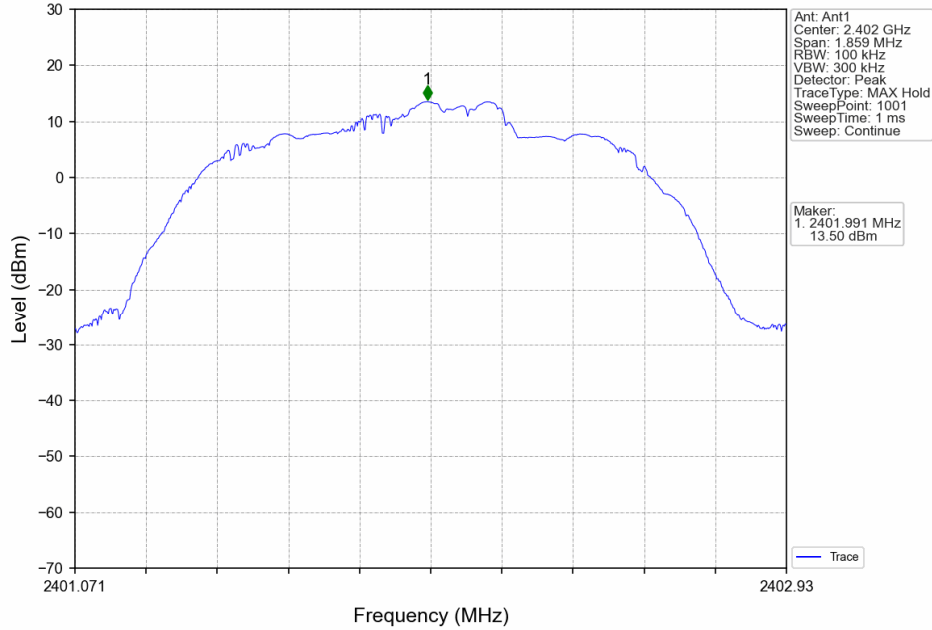
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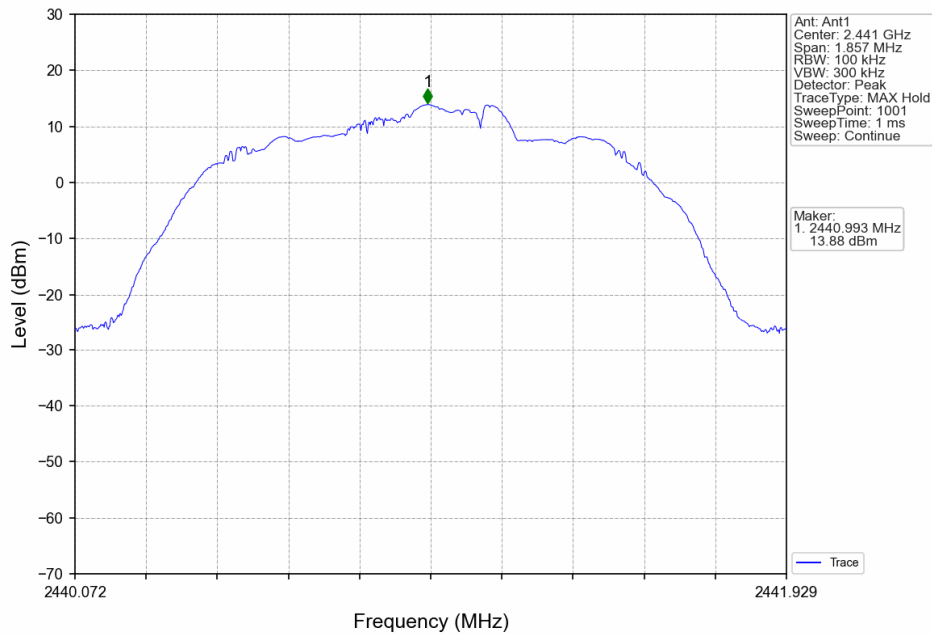
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Page: 152 of 165

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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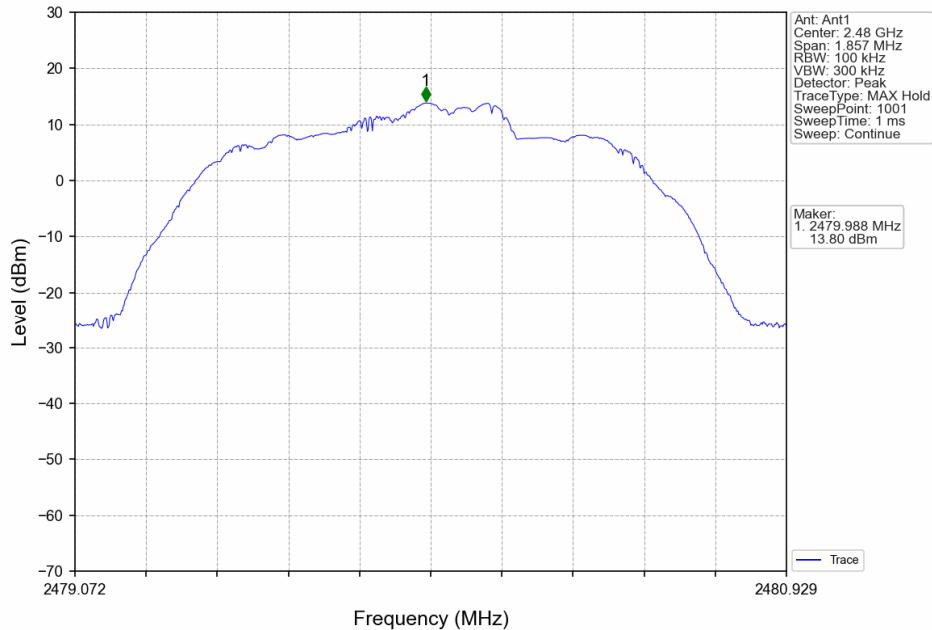
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Report No.: FYCR220800034502

Page: 154 of 165

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.85	-6.15	Pass
		2441	DH5	1	13.85	-6.15	Pass
		2480	DH5	1	13.85	-6.15	Pass
		HOPP	DH5	1	13.85	-6.15	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	13.98	-6.02	Pass
		2441	2DH5	1	13.98	-6.02	Pass
		2480	2DH5	1	13.98	-6.02	Pass
		HOPP	2DH5	1	13.98	-6.02	Pass
8DPSK	SISO	2402	3DH5	1	13.88	-6.12	Pass
		2441	3DH5	1	13.88	-6.12	Pass
		2480	3DH5	1	13.88	-6.12	Pass
		HOPP	3DH5	1	13.88	-6.12	Pass



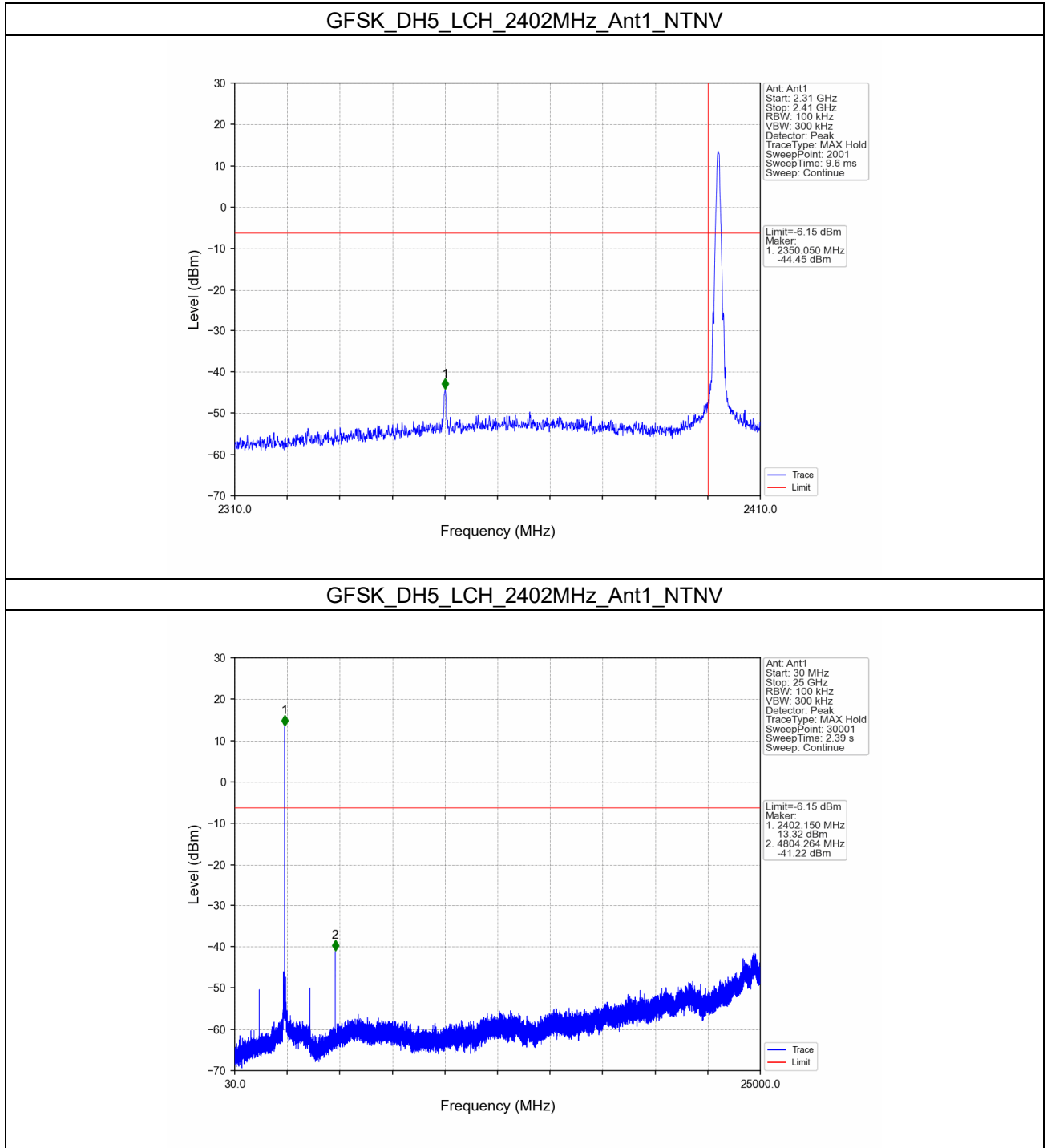
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7.2.2 Test Graph



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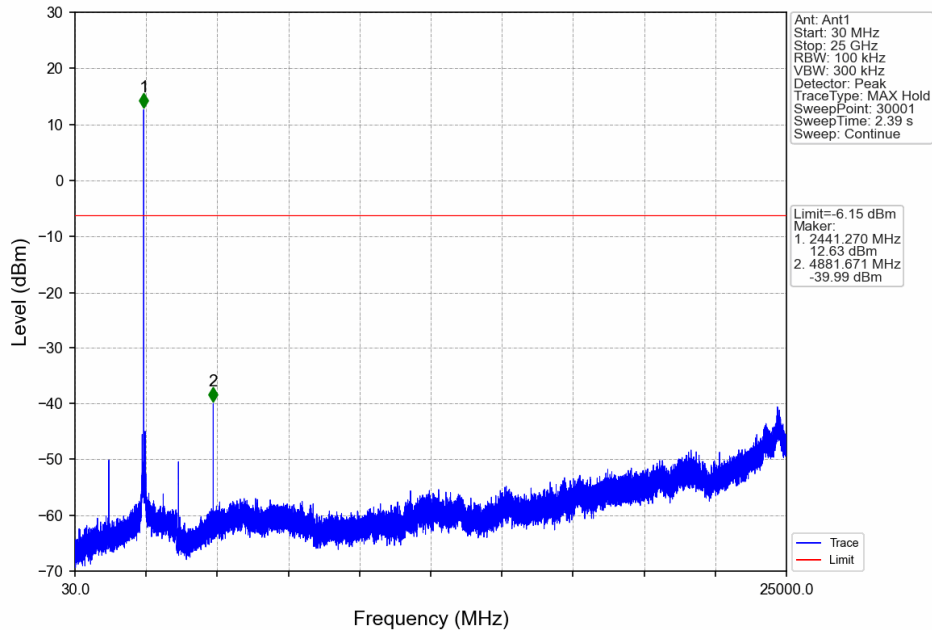
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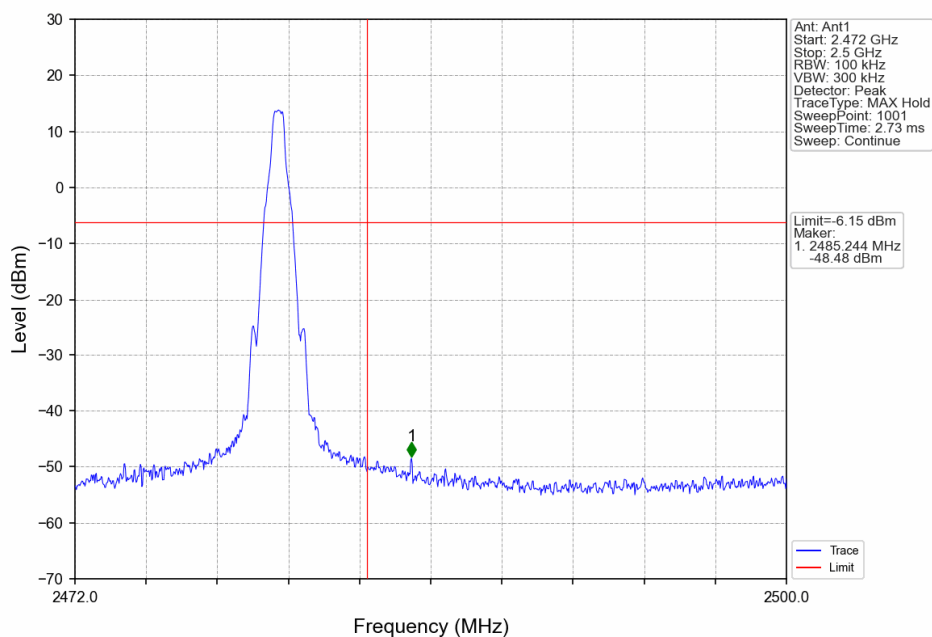
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Page: 156 of 165

GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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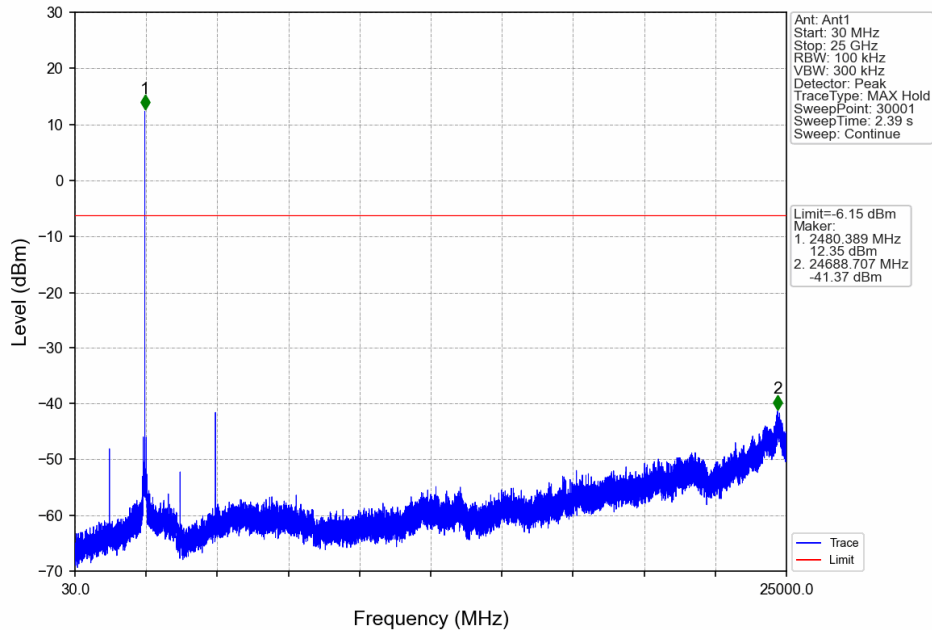
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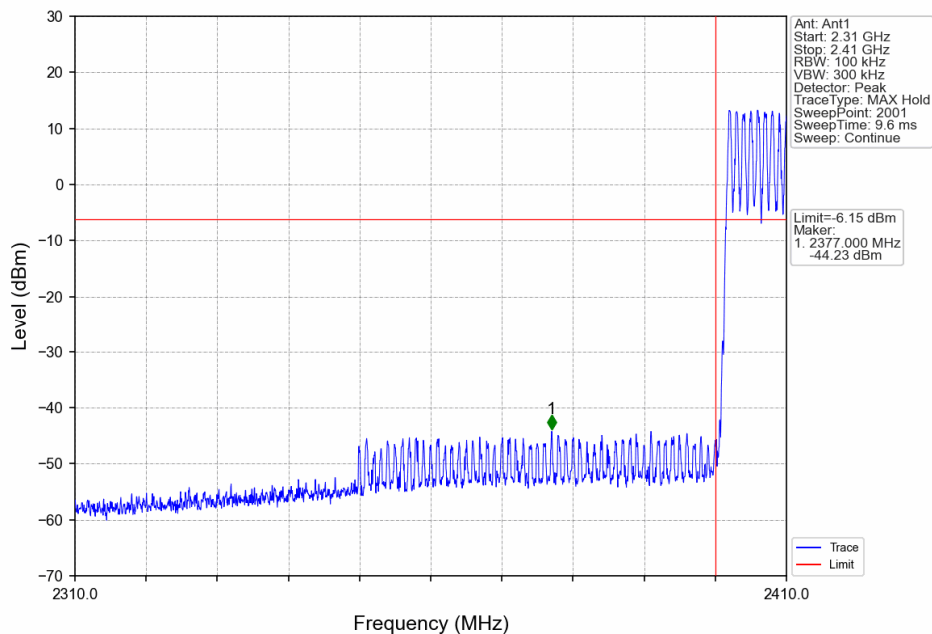
Report No.: FYCR220800034502

Page: 157 of 165

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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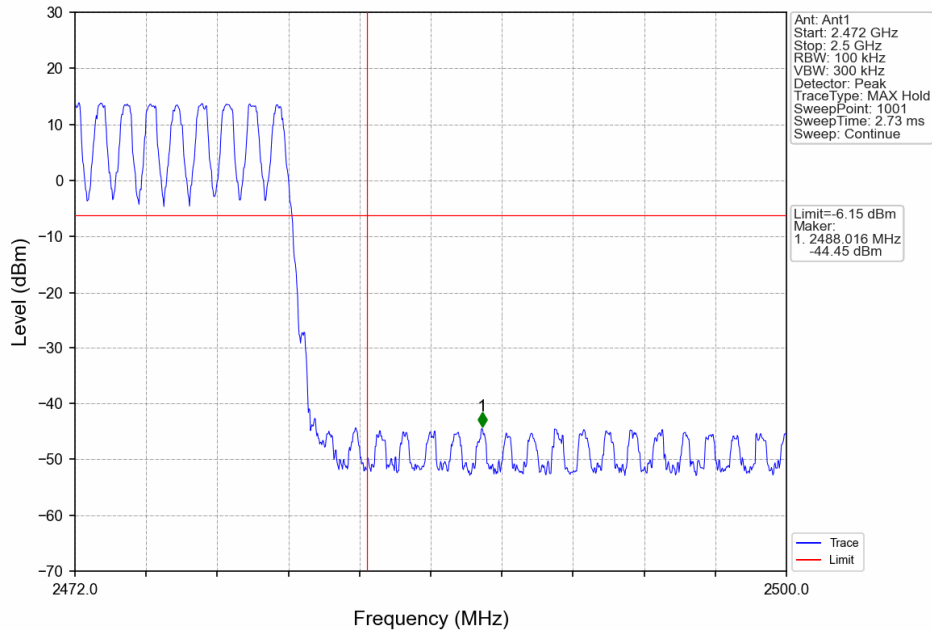
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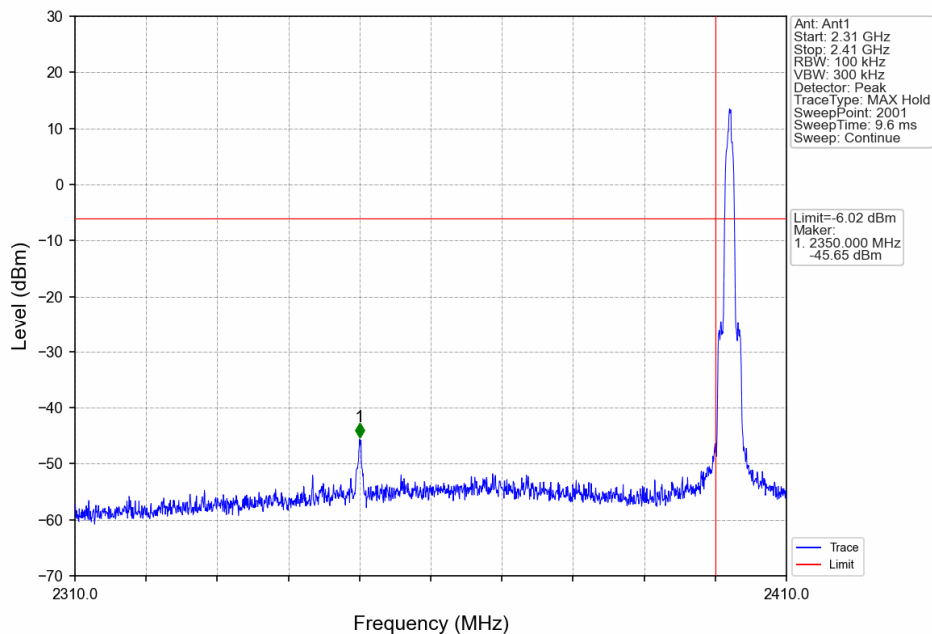
Report No.: FYCR220800034502

Page: 158 of 165

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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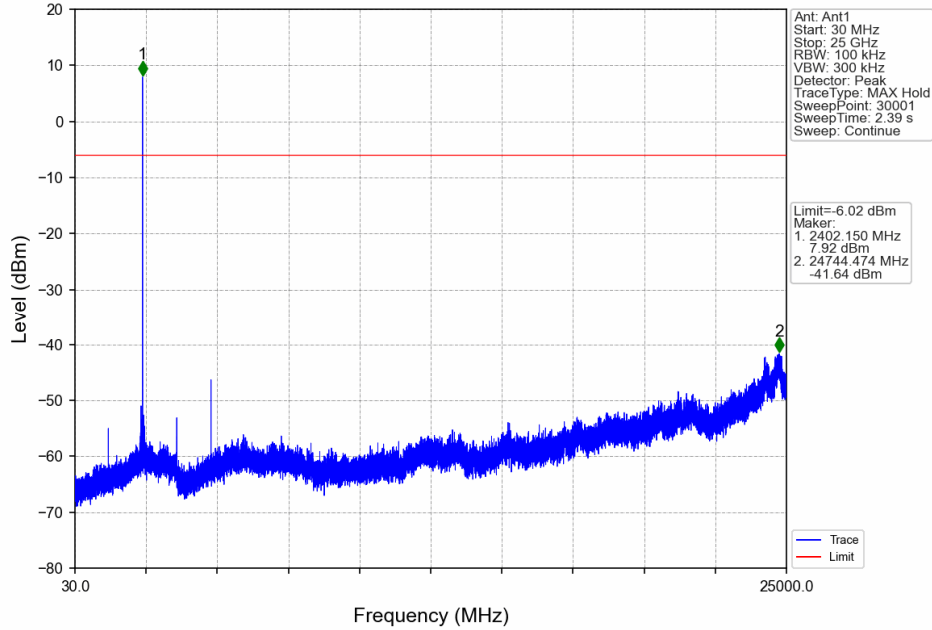
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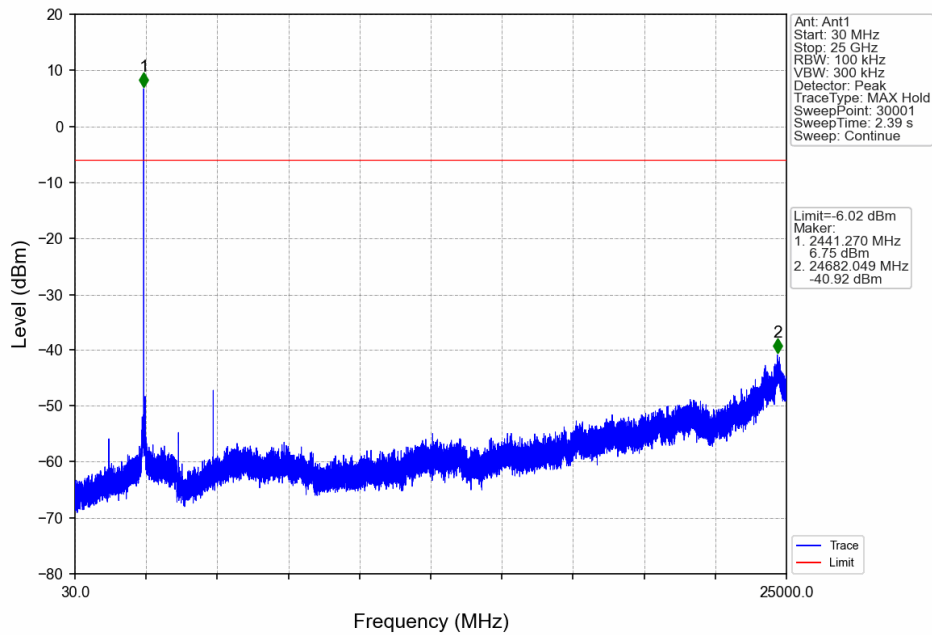
Report No.: FYCR220800034502

Page: 159 of 165

Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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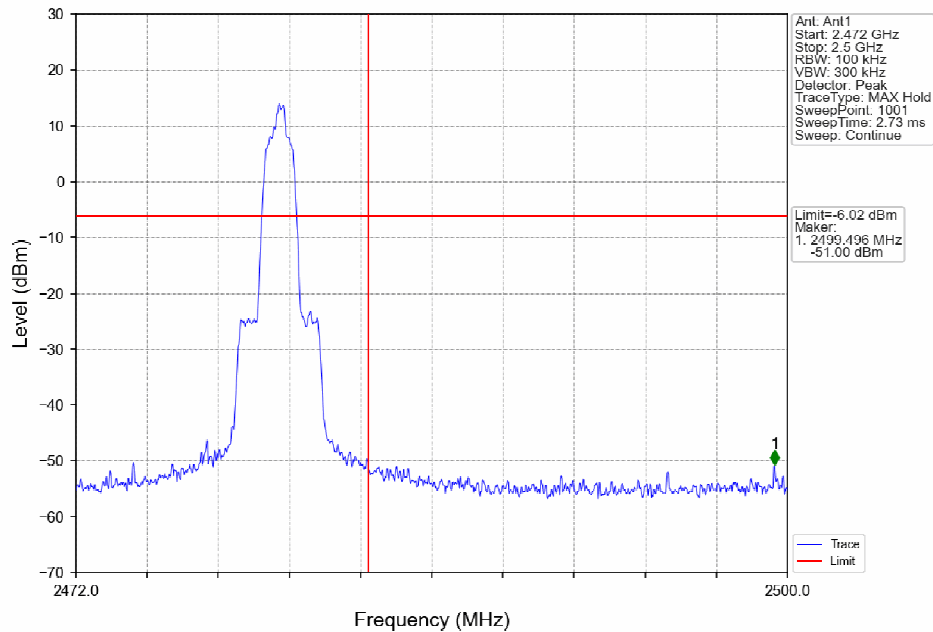
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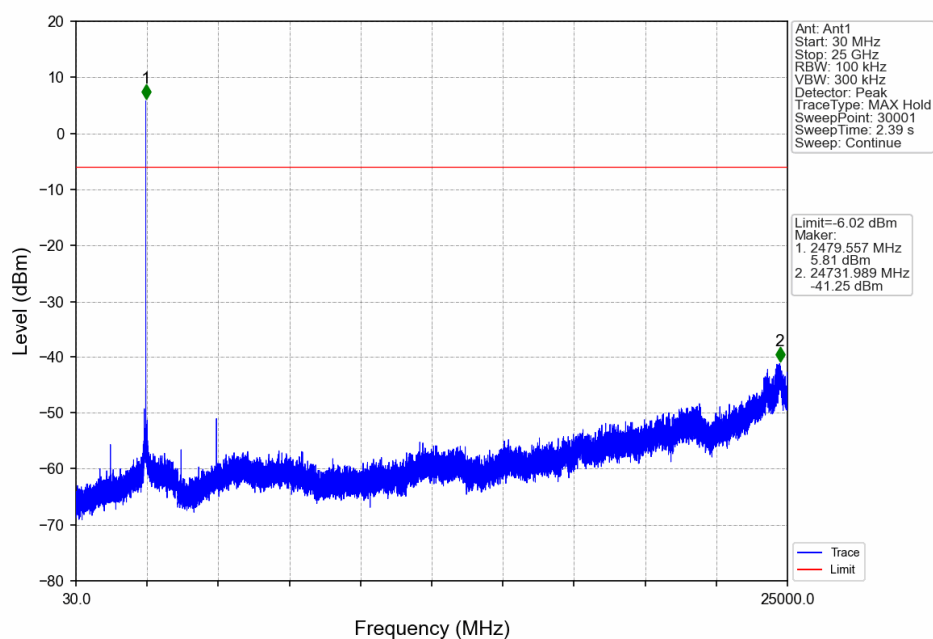
Report No.: FYCR220800034502

Page: 160 of 165

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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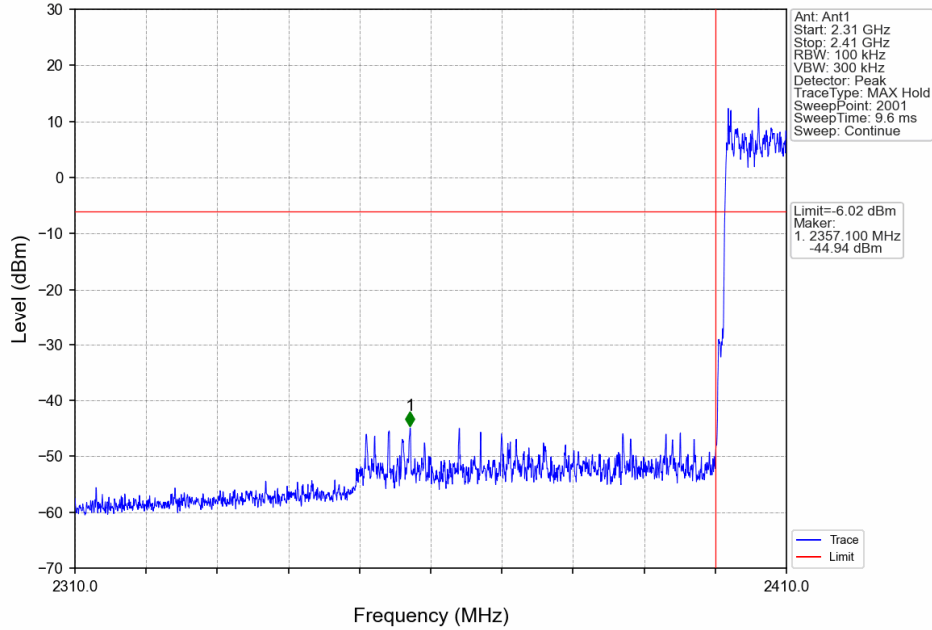
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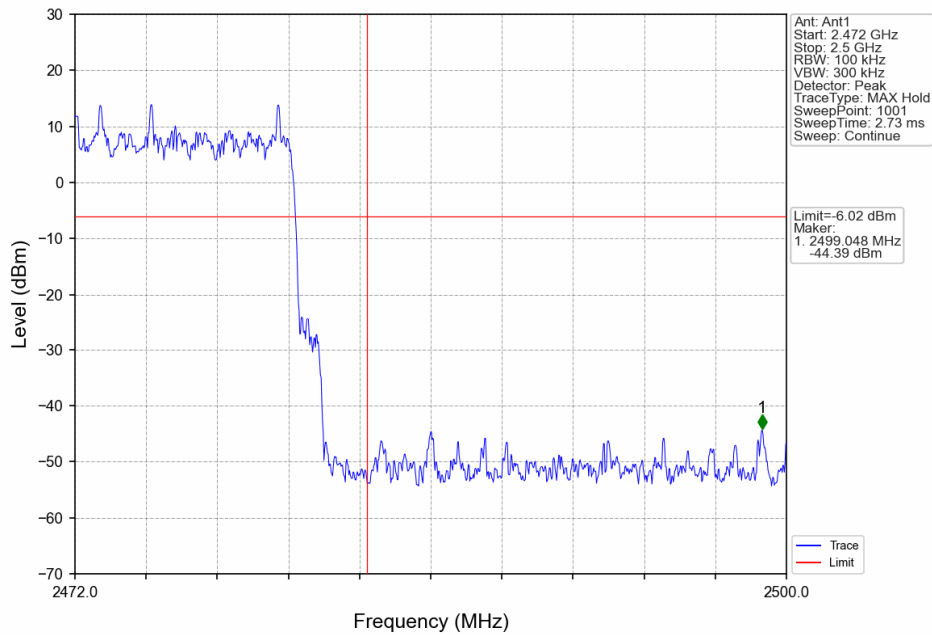
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Page: 161 of 165

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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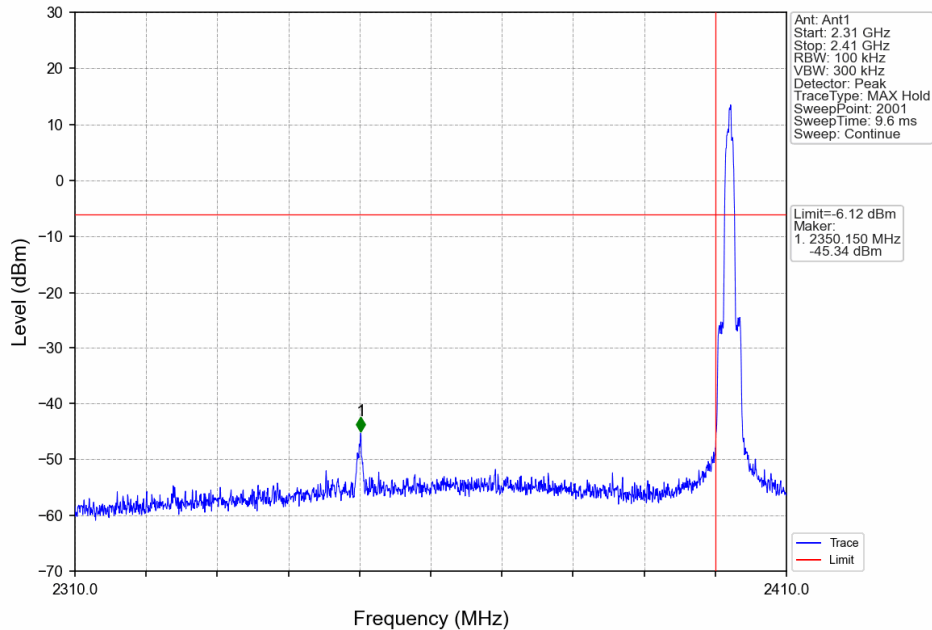
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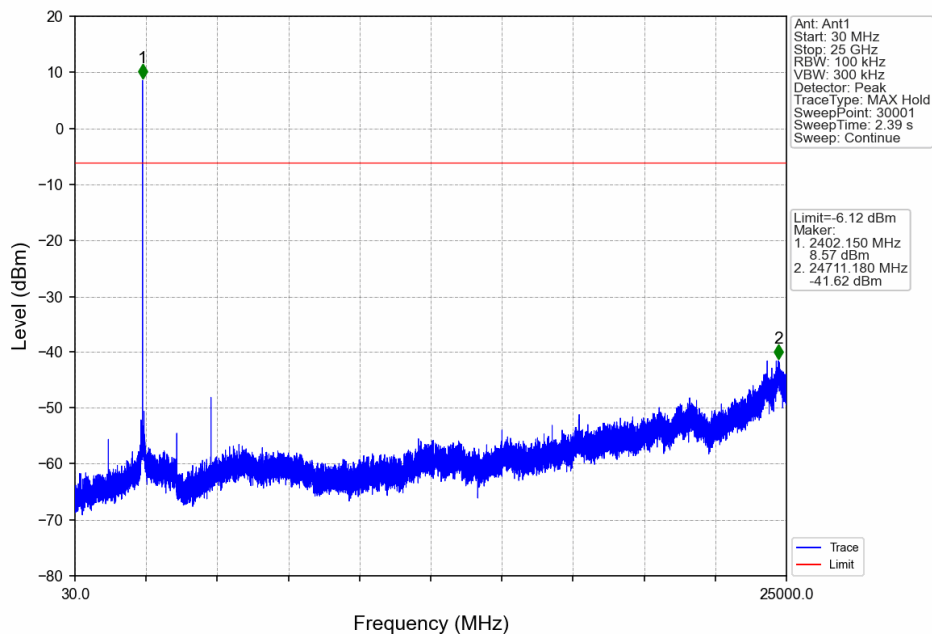
Report No.: FYCR220800034502

Page: 162 of 165

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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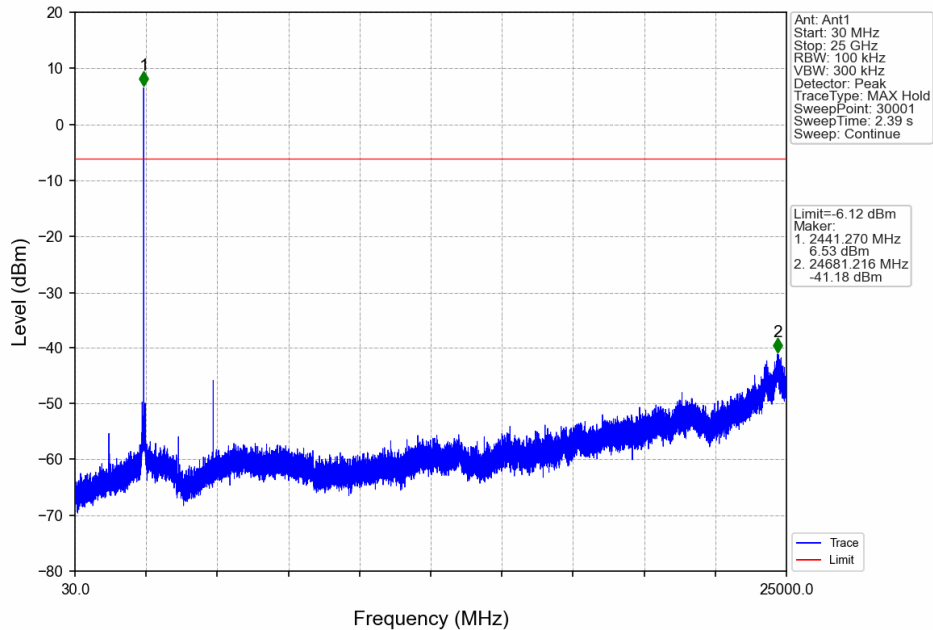
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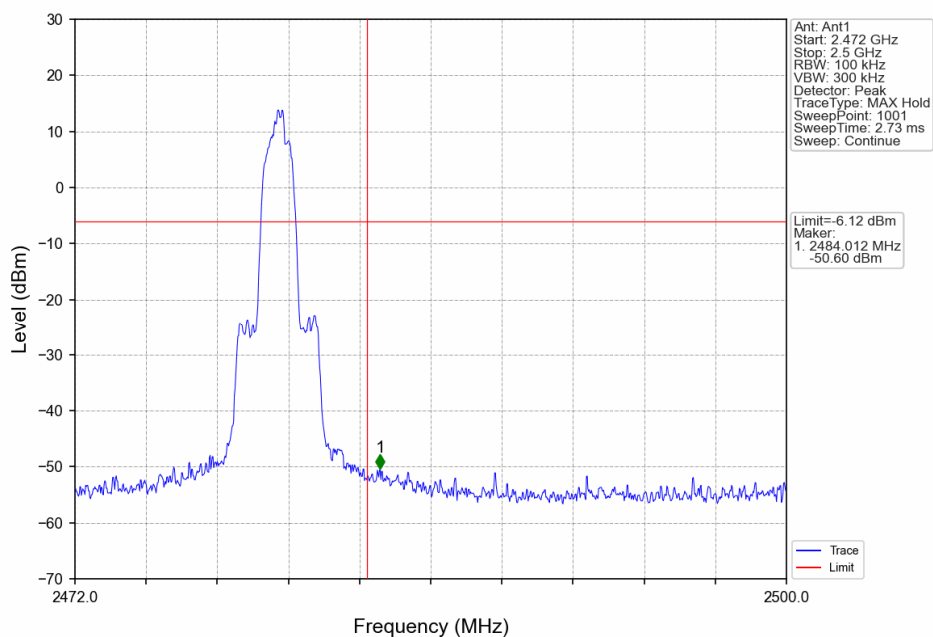
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Page: 163 of 165

8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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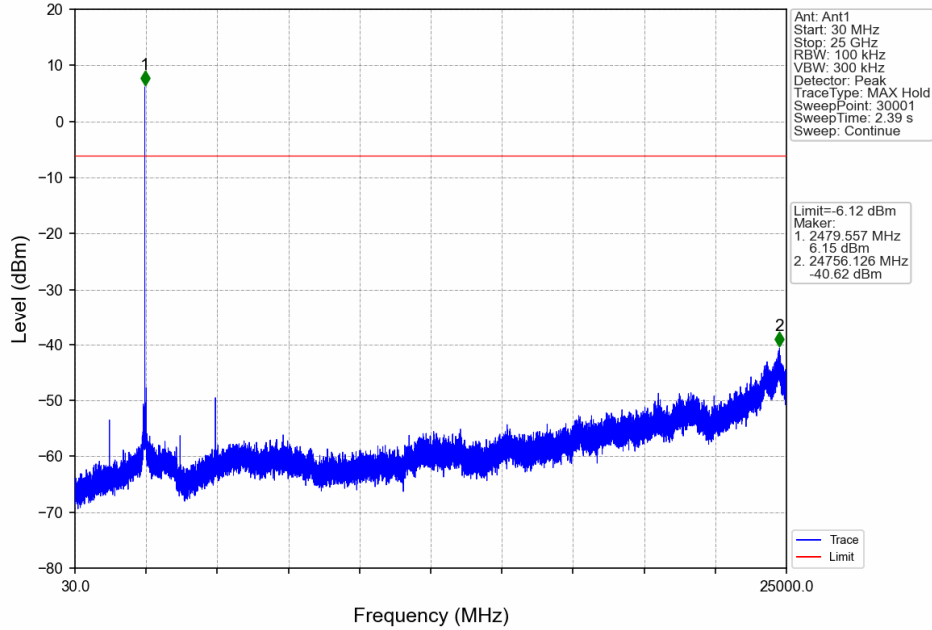
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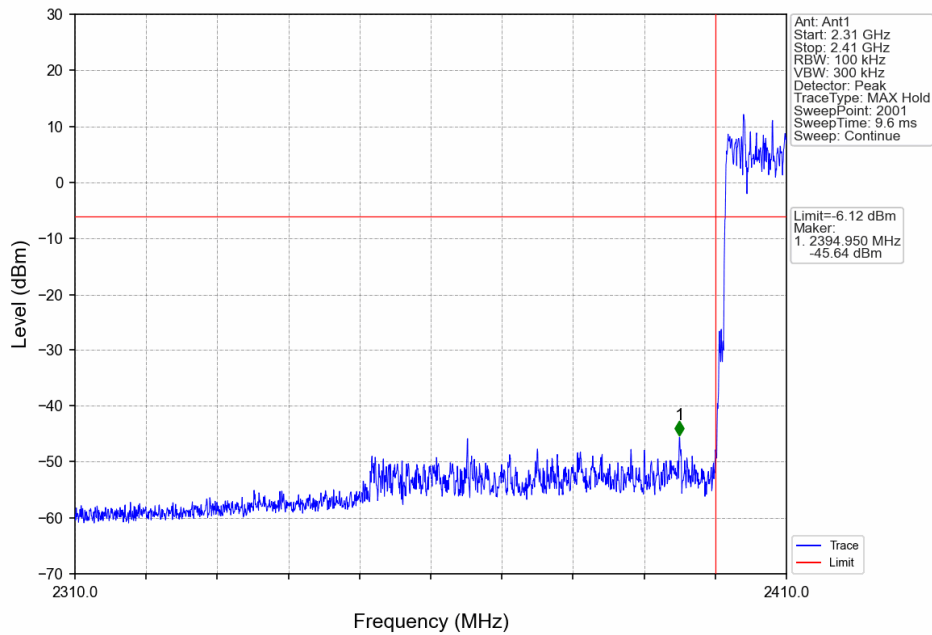
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Page: 164 of 165

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8DPSK_3DH5_HOPP_Ant1_NTNV



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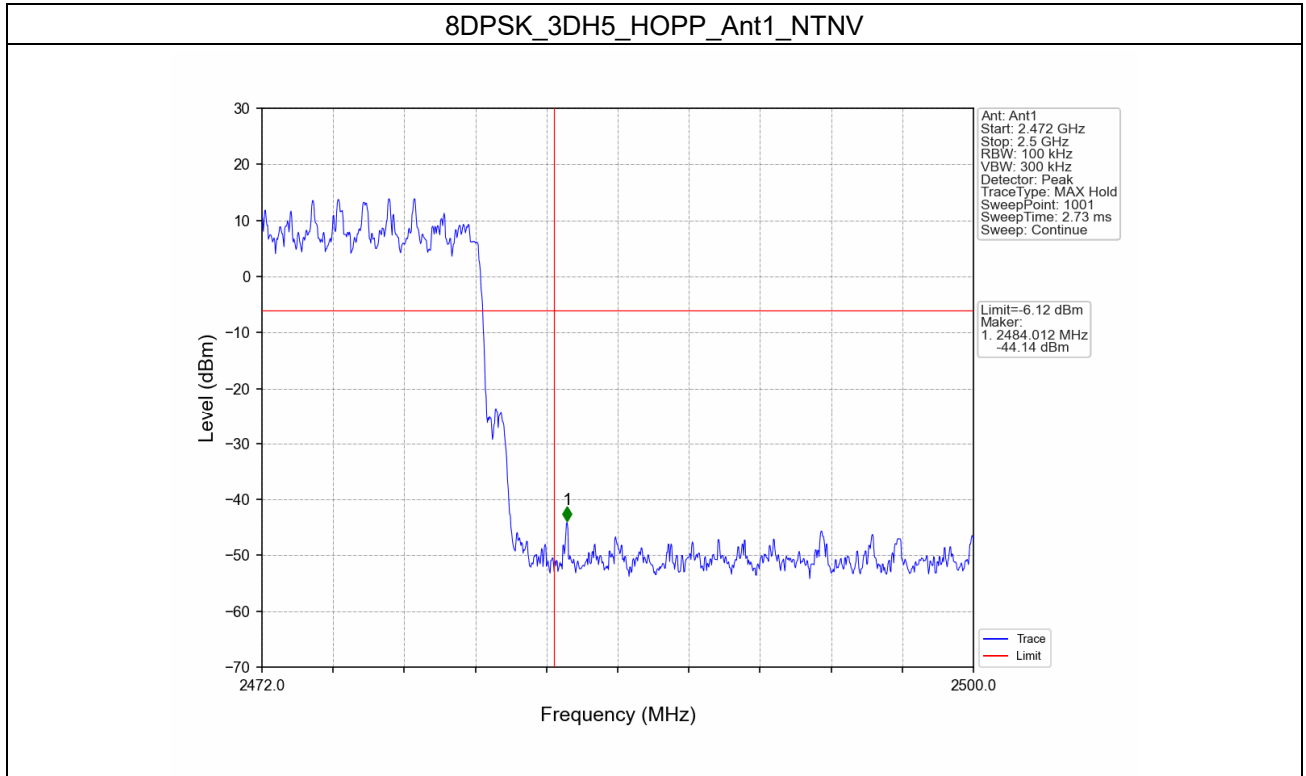
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Page: 165 of 165



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