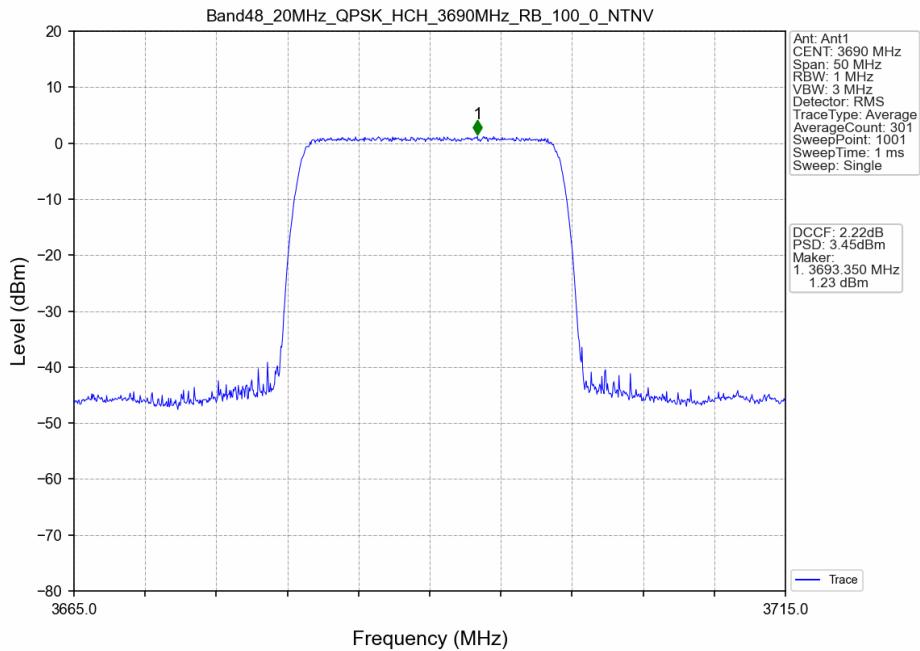
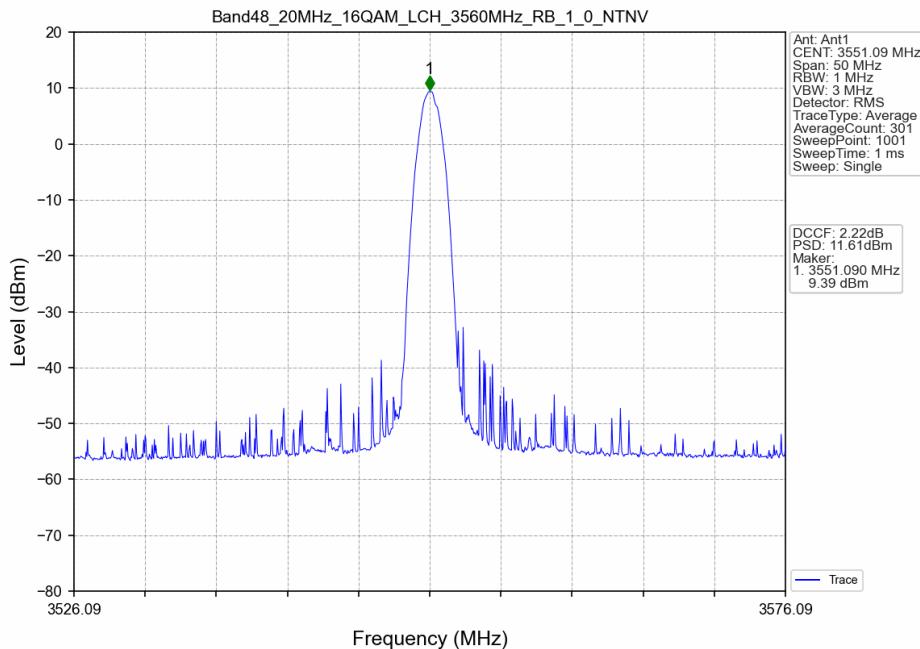


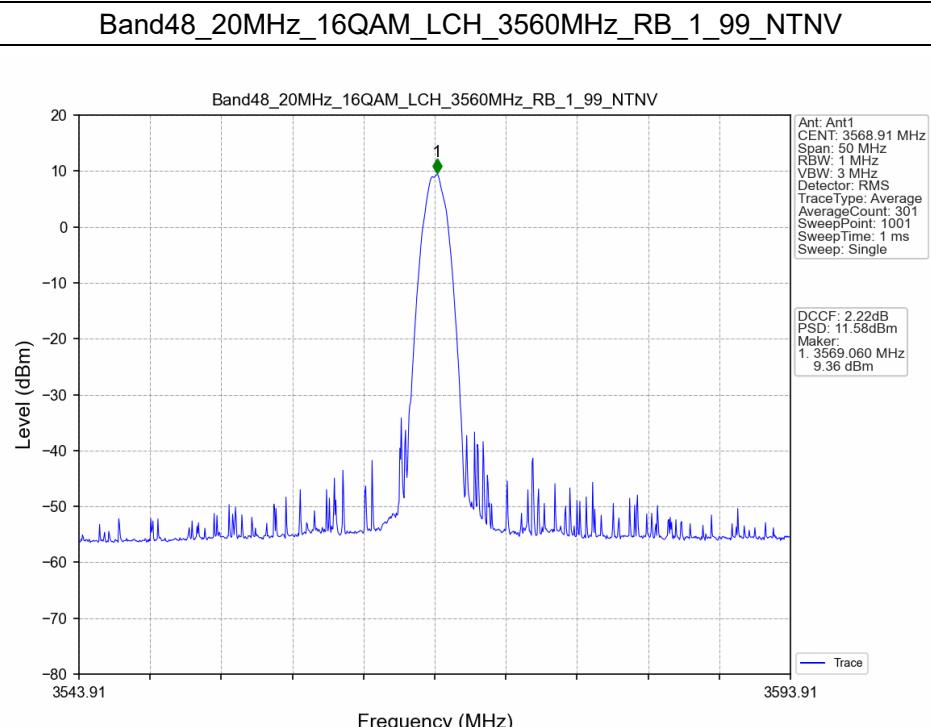
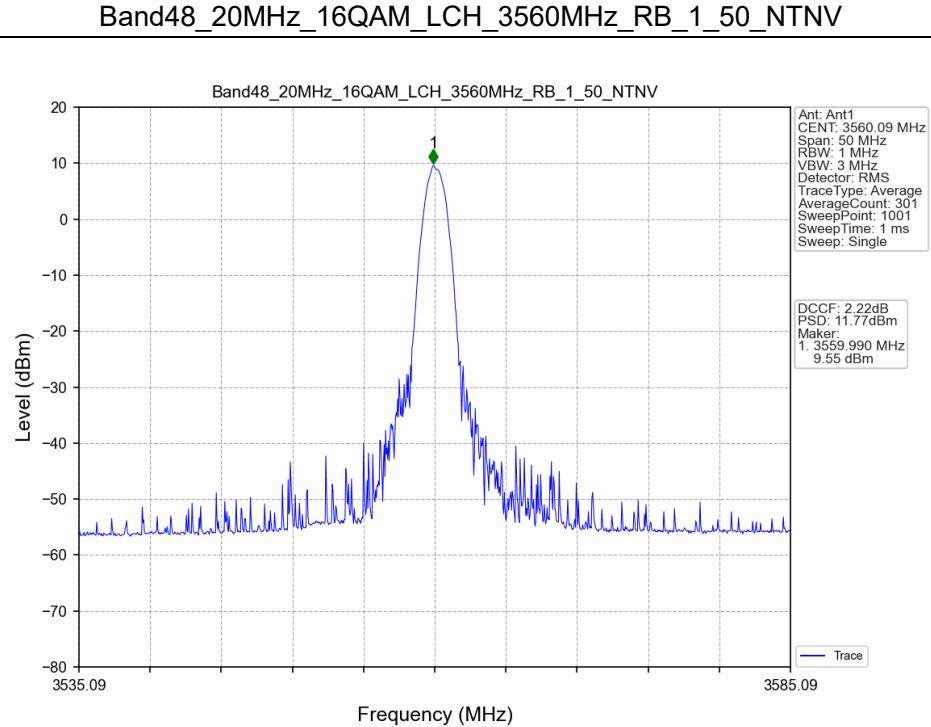
Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV**Band48_20MHz_16QAM_LCH_3560MHz_RB_1_0_NTNV**

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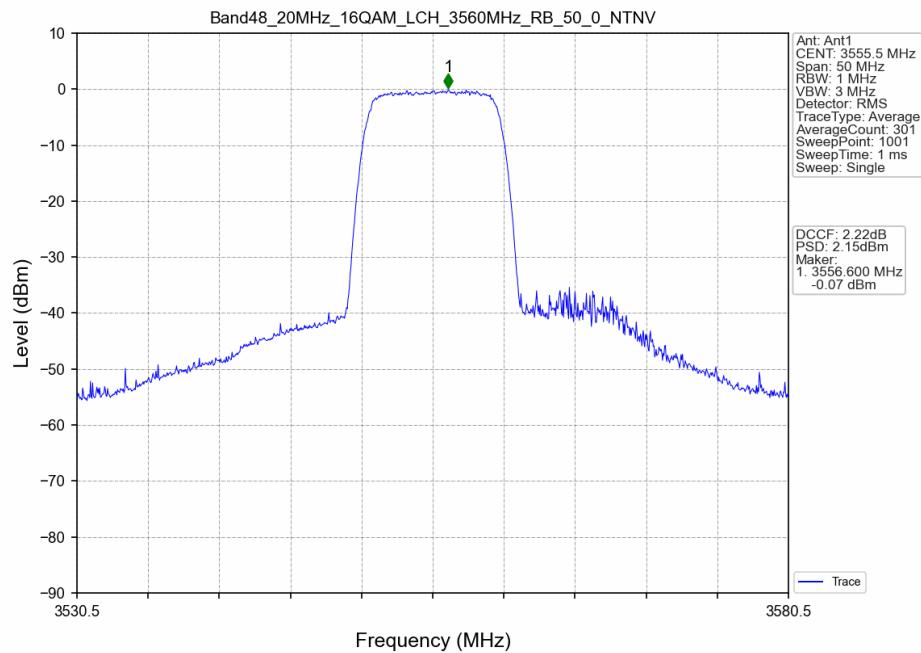
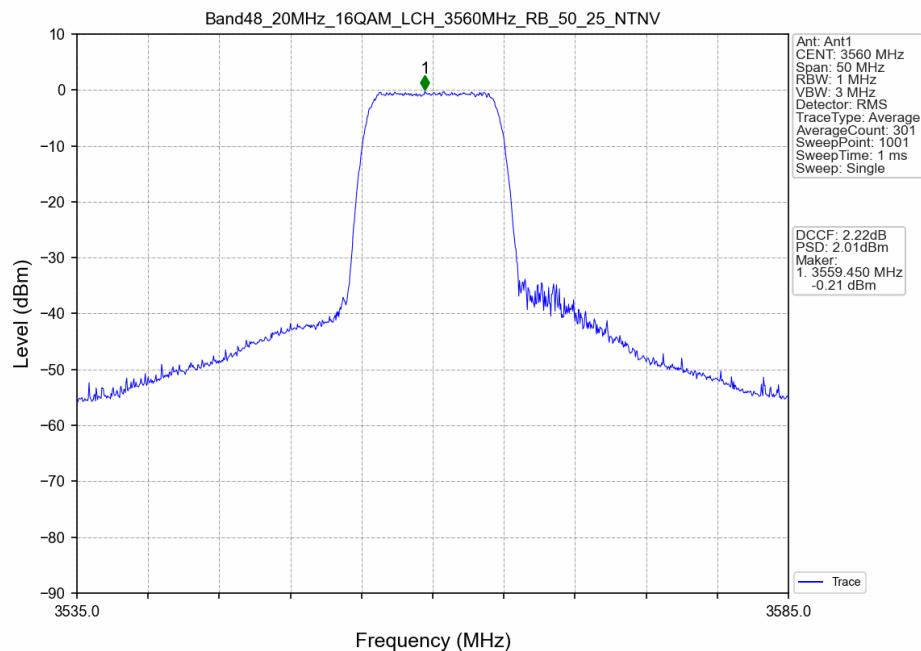


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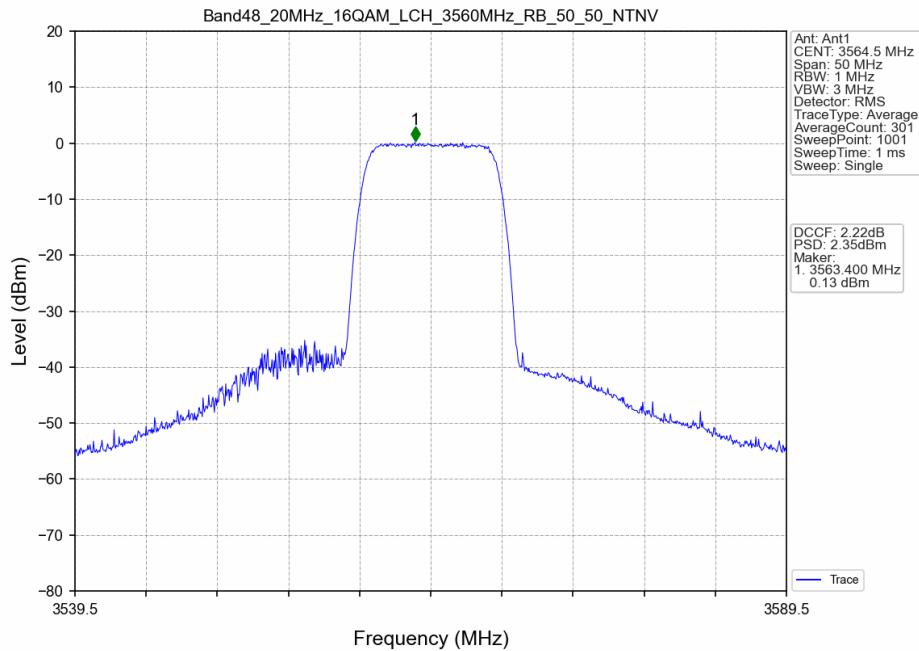
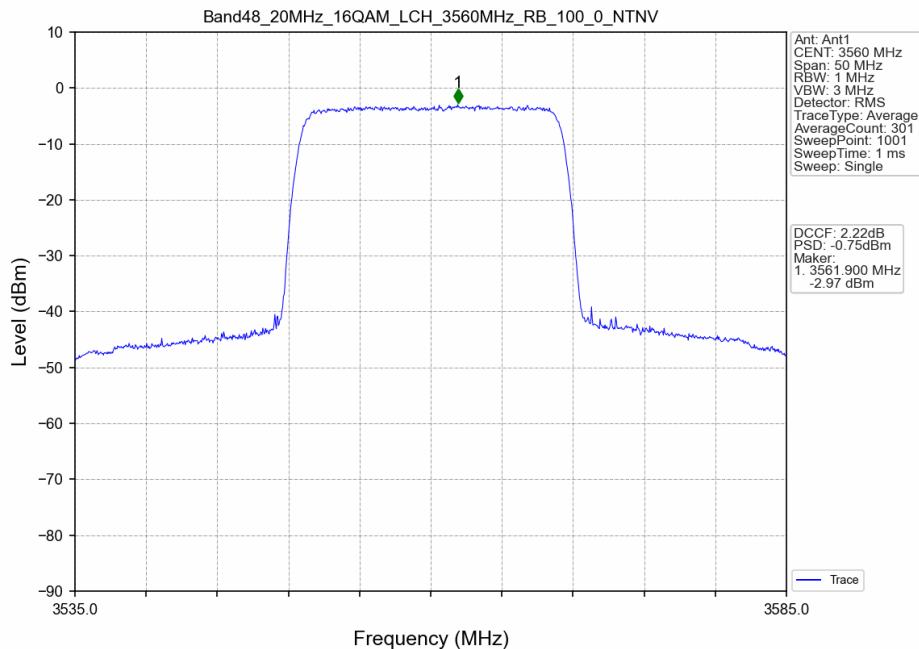
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Band48_20MHz_16QAM_LCH_3560MHz_RB_50_0_NTNV**Band48_20MHz_16QAM_LCH_3560MHz_RB_50_25_NTNV**

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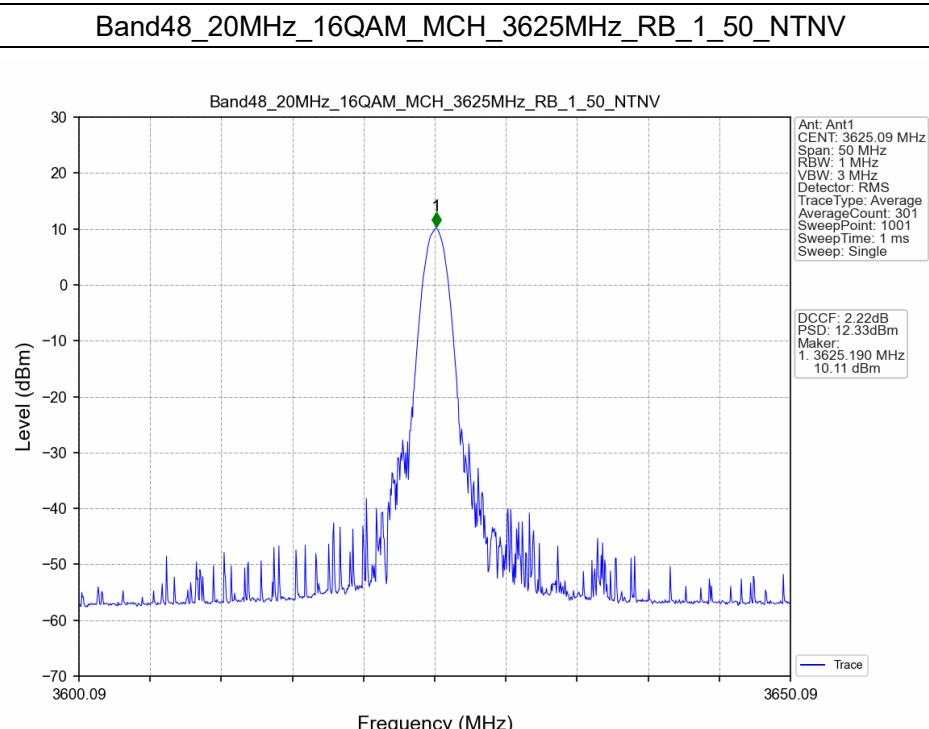
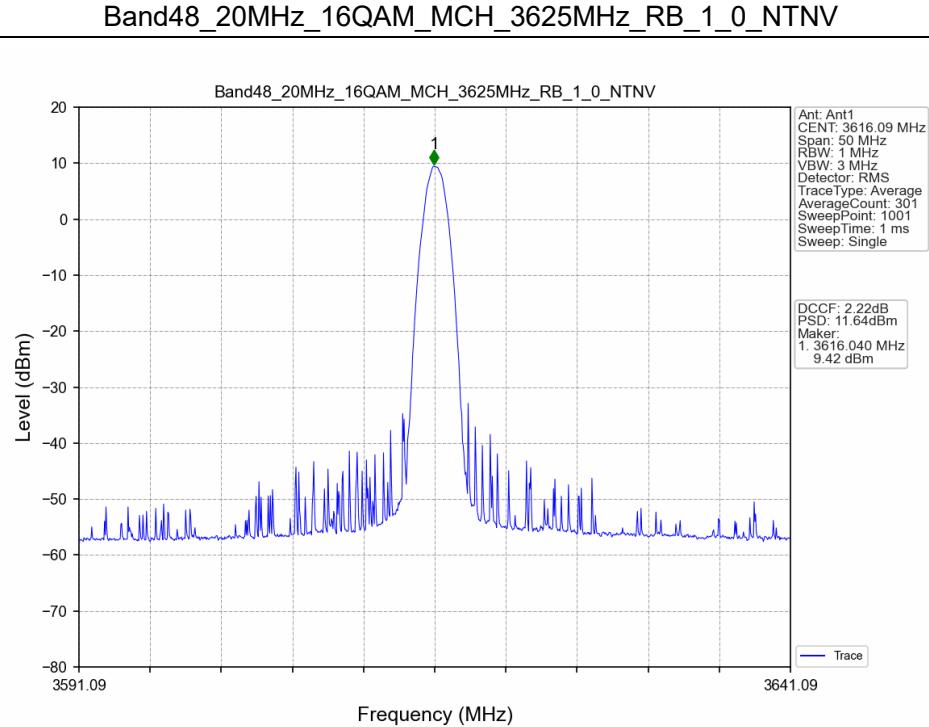
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Band48_20MHz_16QAM_LCH_3560MHz_RB_50_50_NTNV**Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV**

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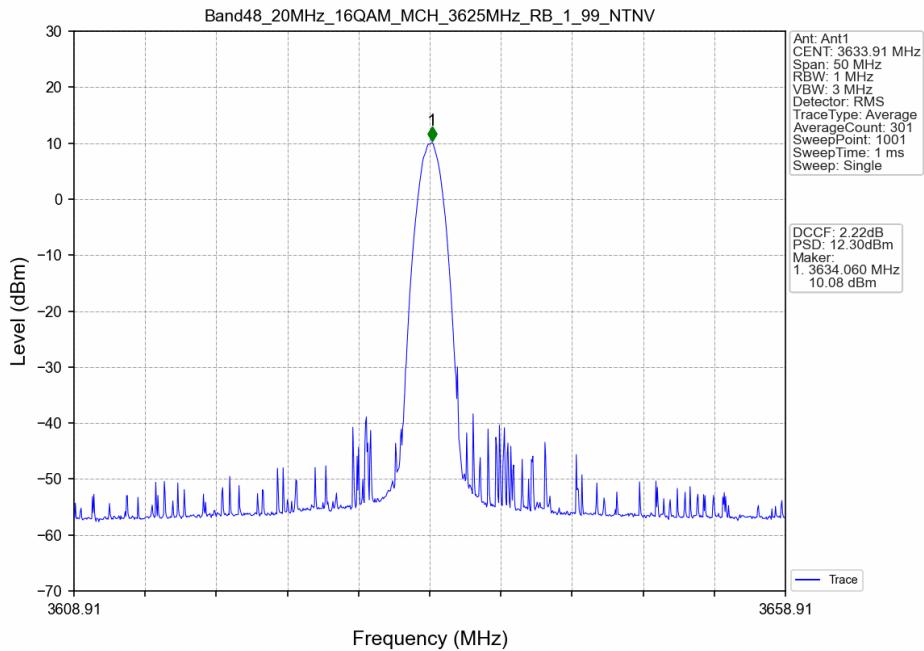
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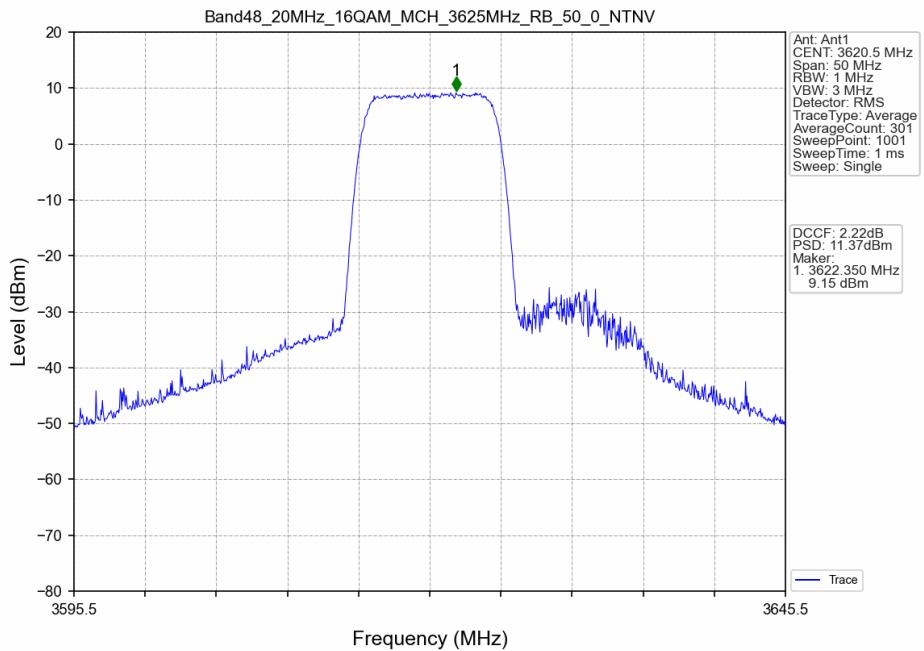
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Band48_20MHz_16QAM_MCH_3625MHz_RB_1_99_NTNV



Band48_20MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV

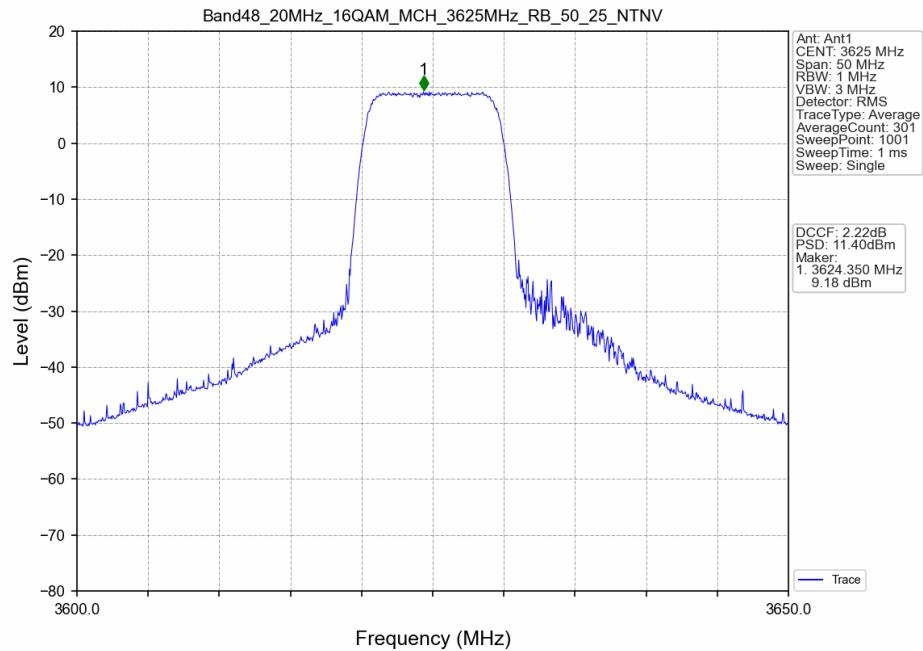
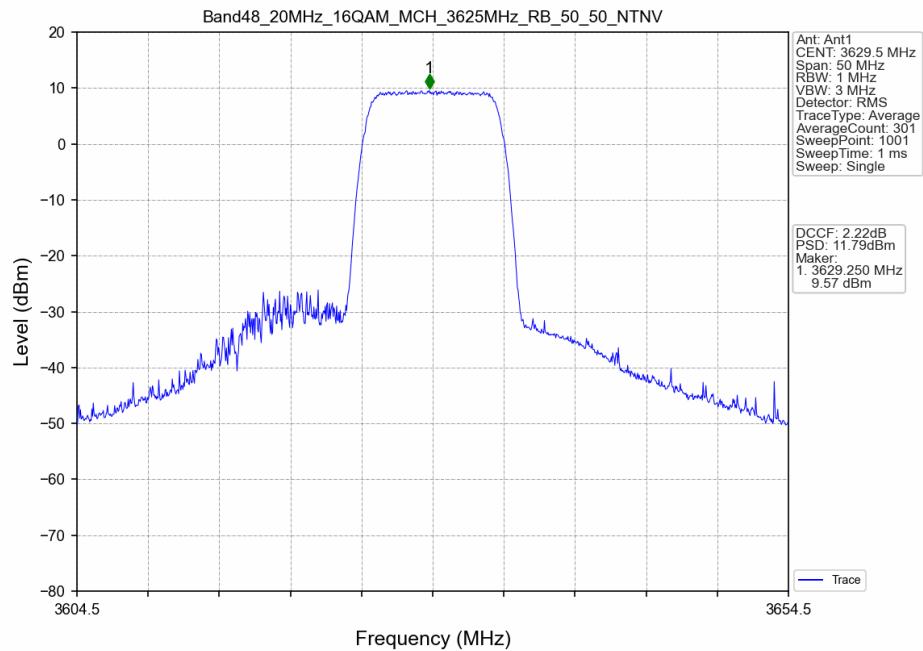


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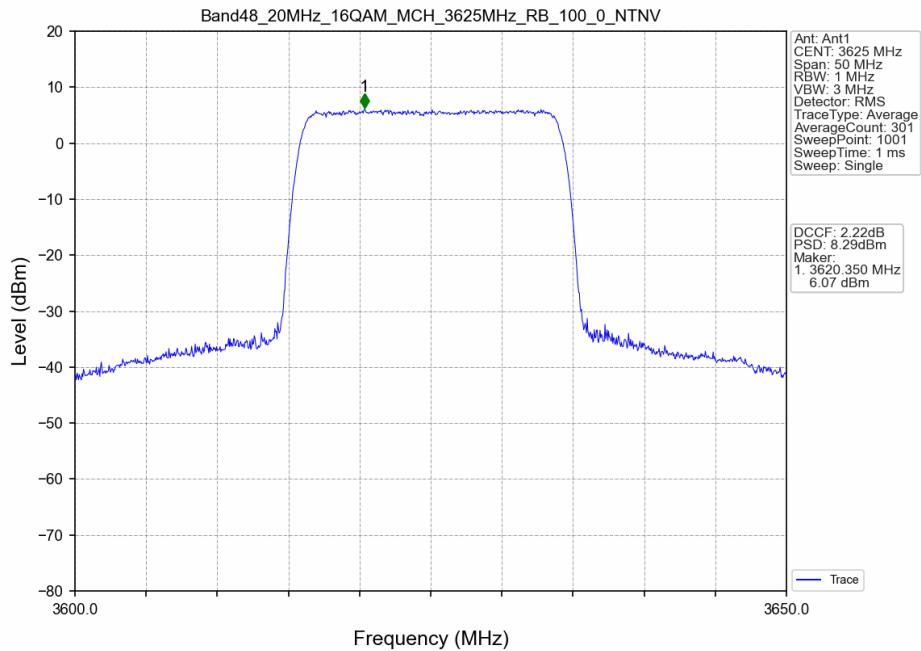
Band48_20MHz_16QAM_MCH_3625MHz_RB_50_25_NTNV**Band48_20MHz_16QAM_MCH_3625MHz_RB_50_50_NTNV**

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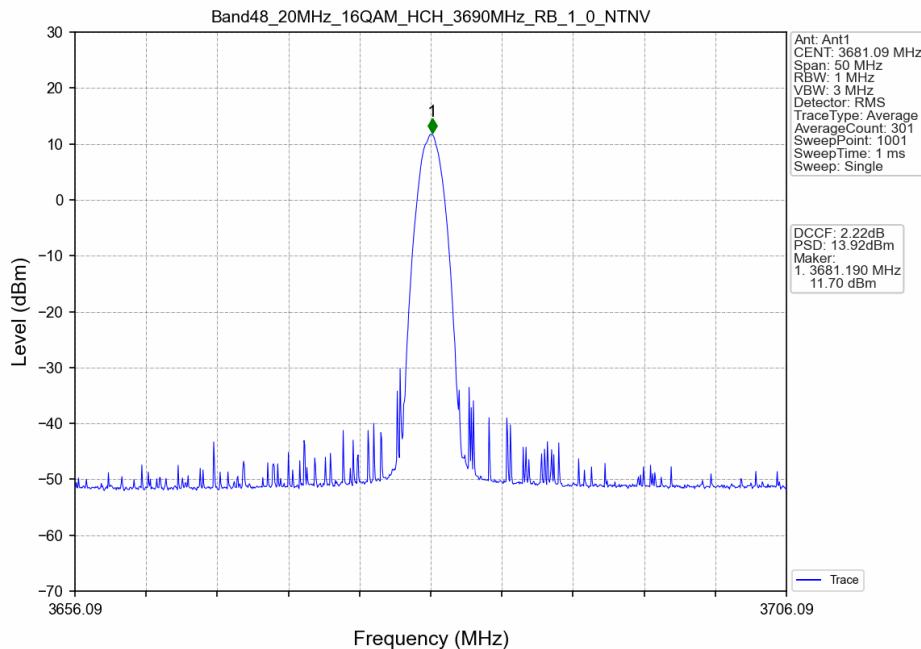
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Band48_20MHz_16QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_HCH_3690MHz_RB_1_0_NTNV

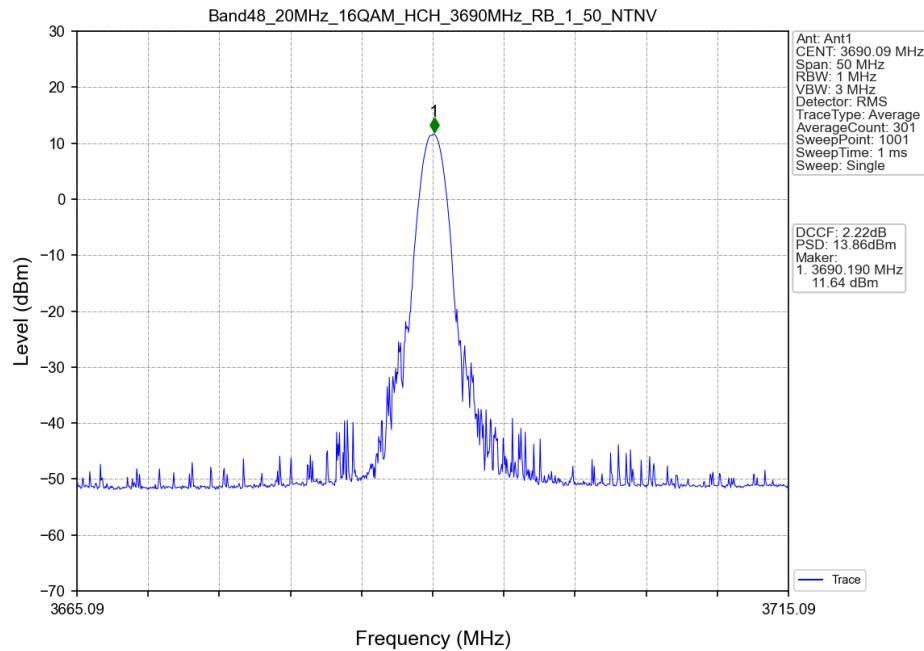
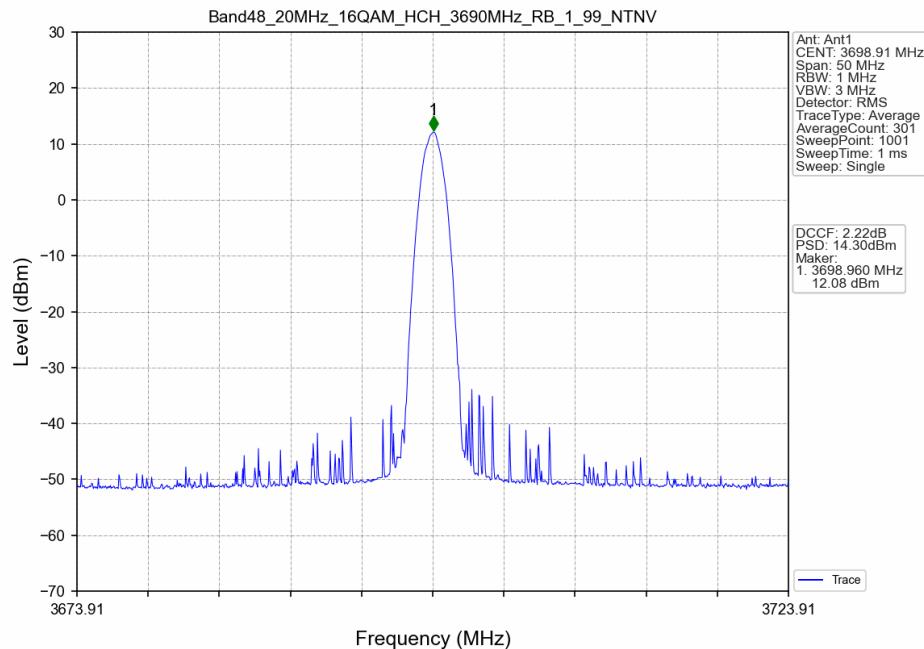


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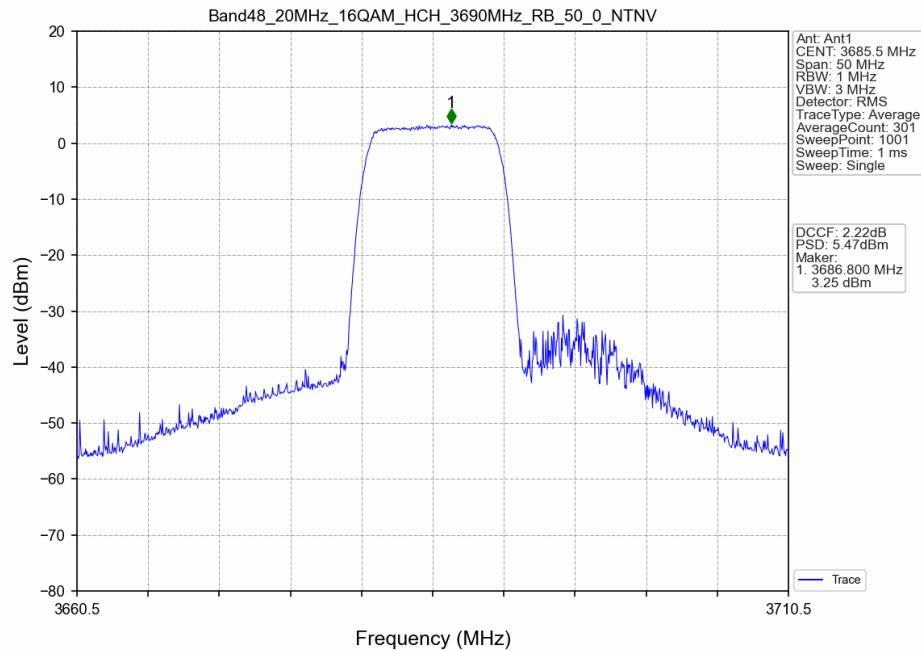
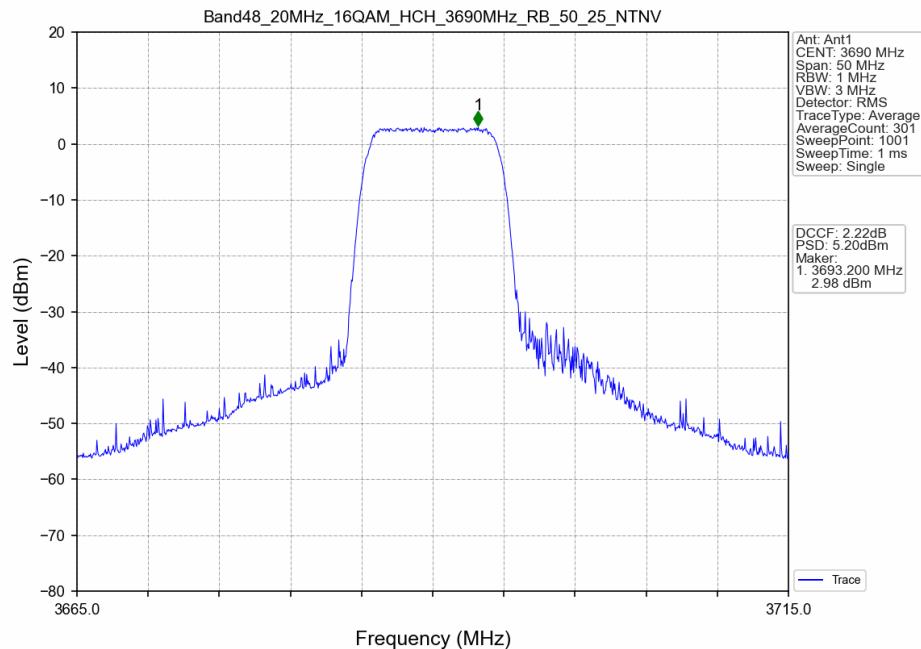
Band48_20MHz_16QAM_HCH_3690MHz_RB_1_50_NTNV**Band48_20MHz_16QAM_HCH_3690MHz_RB_1_99_NTNV**

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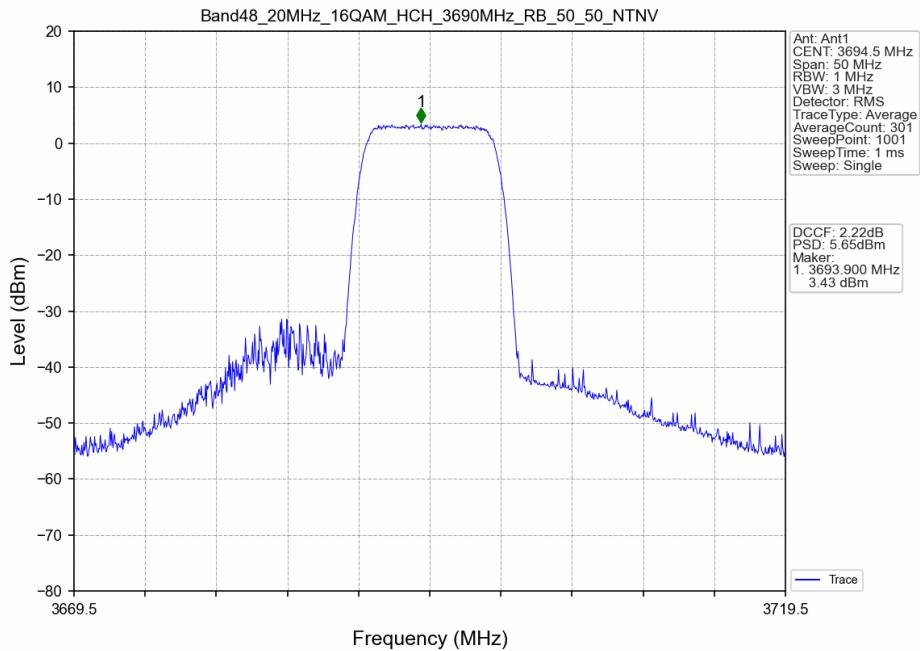
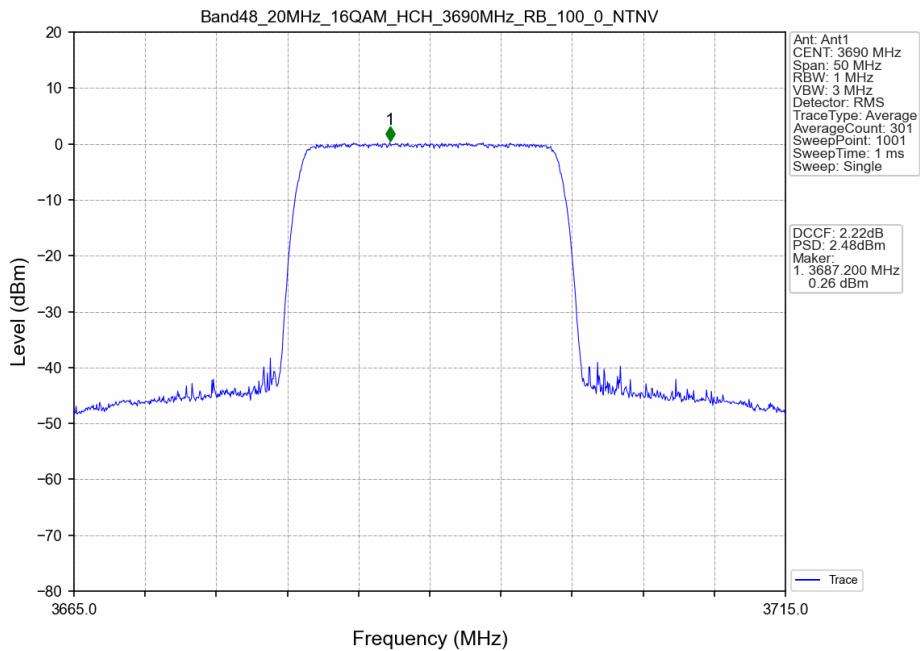
Band48_20MHz_16QAM_HCH_3690MHz_RB_50_0_NTNV**Band48_20MHz_16QAM_HCH_3690MHz_RB_50_25_NTNV**

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Band48_20MHz_16QAM_HCH_3690MHz_RB_50_50_NTNV**Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV**

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2. 99% & 26dB Bandwidth

2.1 Test Result

2.1.1 Band48_OBW

Band: 48 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.573	/	Pass
		3625	25	0	4.546	/	Pass
		3697.5	25	0	4.601	/	Pass
	16QAM	3552.5	25	0	4.563	/	Pass
		3625	25	0	4.539	/	Pass
		3697.5	25	0	4.533	/	Pass
10	QPSK	3555	50	0	9.086	/	Pass
		3625	50	0	9.011	/	Pass
		3695	50	0	9.071	/	Pass
	16QAM	3555	50	0	9.078	/	Pass
		3625	50	0	9.018	/	Pass
		3695	50	0	9.050	/	Pass
15	QPSK	3557.5	75	0	13.614	/	Pass
		3625	75	0	13.596	/	Pass
		3692.5	75	0	13.477	/	Pass
	16QAM	3557.5	75	0	13.604	/	Pass
		3625	75	0	13.546	/	Pass
		3692.5	75	0	13.523	/	Pass
20	QPSK	3560	100	0	18.137	/	Pass
		3625	100	0	18.047	/	Pass
		3690	100	0	18.062	/	Pass
	16QAM	3560	100	0	18.107	/	Pass
		3625	100	0	18.074	/	Pass
		3690	100	0	17.986	/	Pass

2.1.2 Band48_XDB



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Band: 48 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	5.250	/	Pass
		3625	25	0	5.232	/	Pass
		3697.5	25	0	5.508	/	Pass
	16QAM	3552.5	25	0	5.742	/	Pass
		3625	25	0	5.410	/	Pass
		3697.5	25	0	5.181	/	Pass
10	QPSK	3555	50	0	10.656	/	Pass
		3625	50	0	9.817	/	Pass
		3695	50	0	9.810	/	Pass
	16QAM	3555	50	0	11.348	/	Pass
		3625	50	0	9.940	/	Pass
		3695	50	0	10.157	/	Pass
15	QPSK	3557.5	75	0	17.146	/	Pass
		3625	75	0	14.485	/	Pass
		3692.5	75	0	14.826	/	Pass
	16QAM	3557.5	75	0	15.583	/	Pass
		3625	75	0	14.583	/	Pass
		3692.5	75	0	14.891	/	Pass
20	QPSK	3560	100	0	20.740	/	Pass
		3625	100	0	19.749	/	Pass
		3690	100	0	19.382	/	Pass
	16QAM	3560	100	0	22.697	/	Pass
		3625	100	0	19.305	/	Pass
		3690	100	0	19.700	/	Pass

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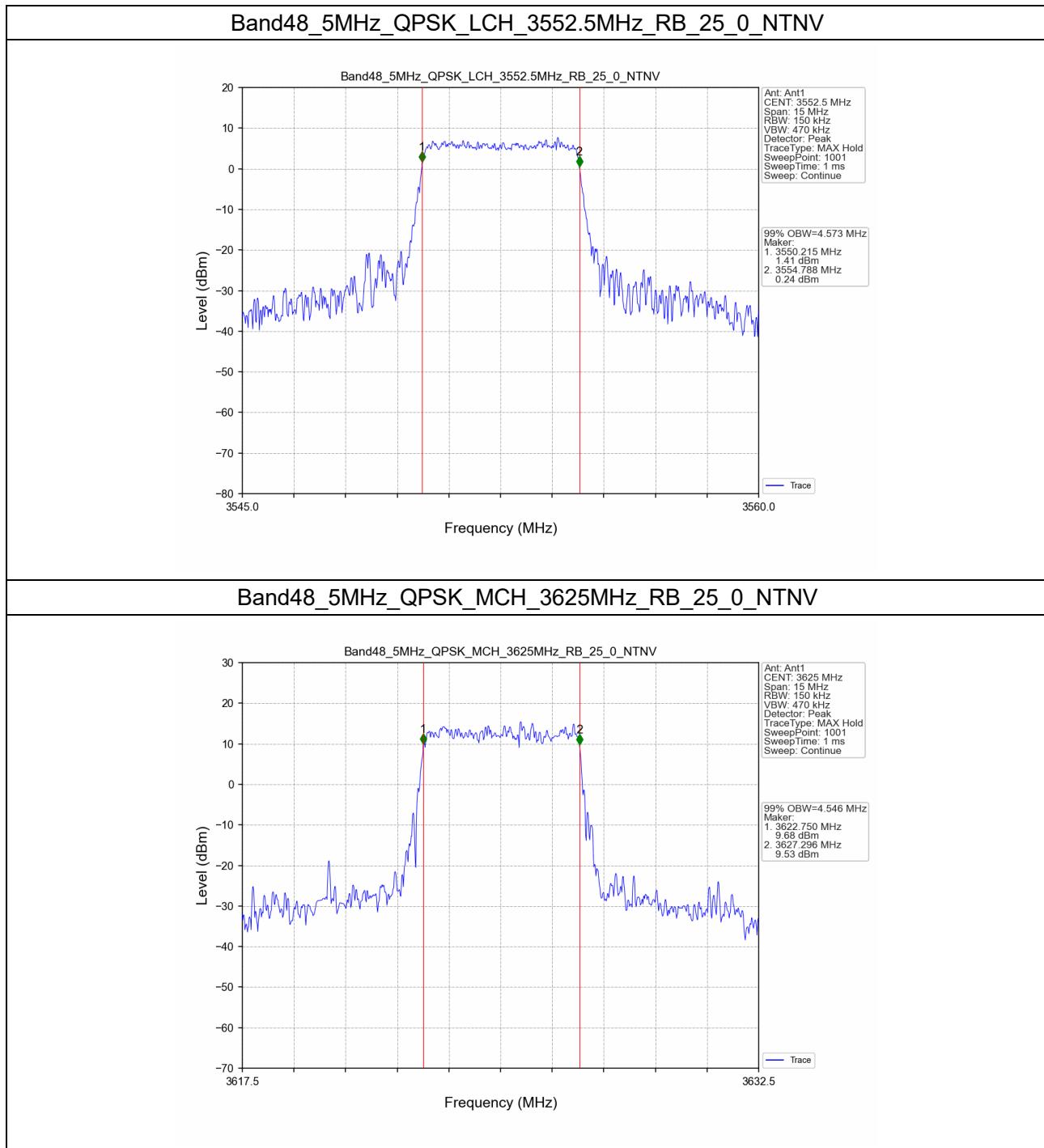
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2.2 Test Graph

2.2.1 Band48_OBW



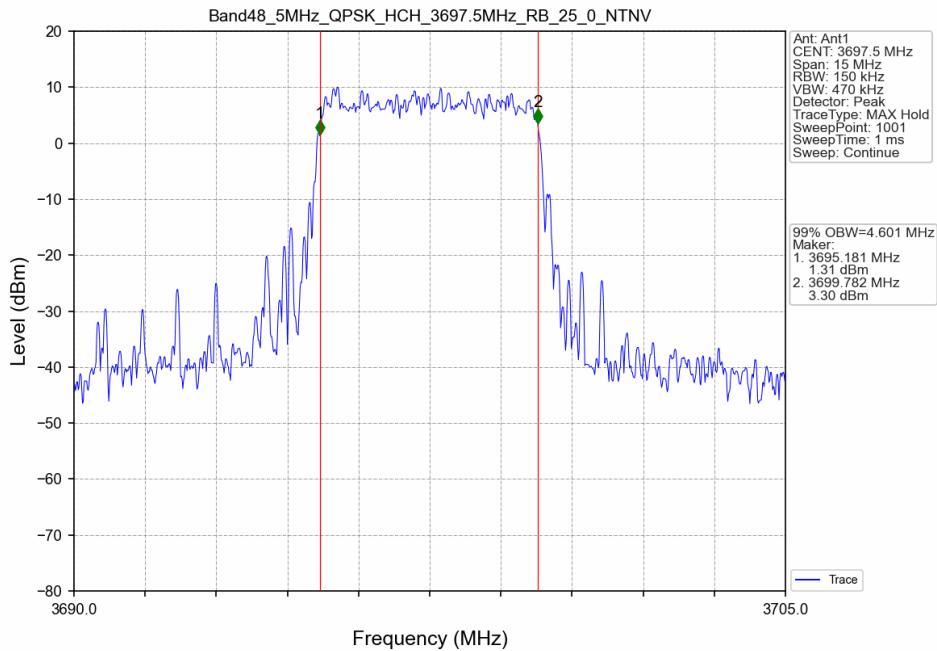
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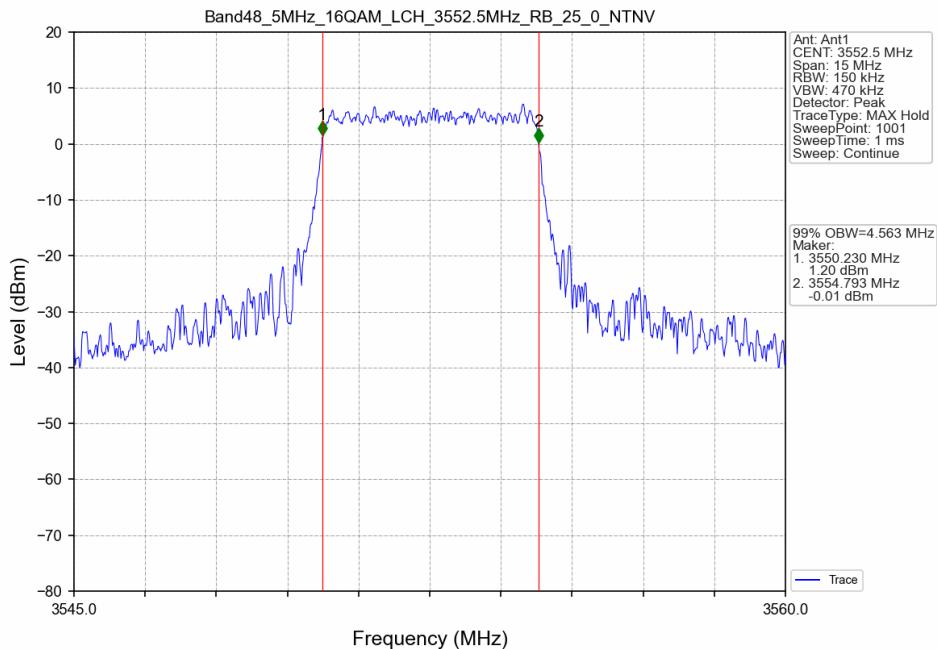
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV

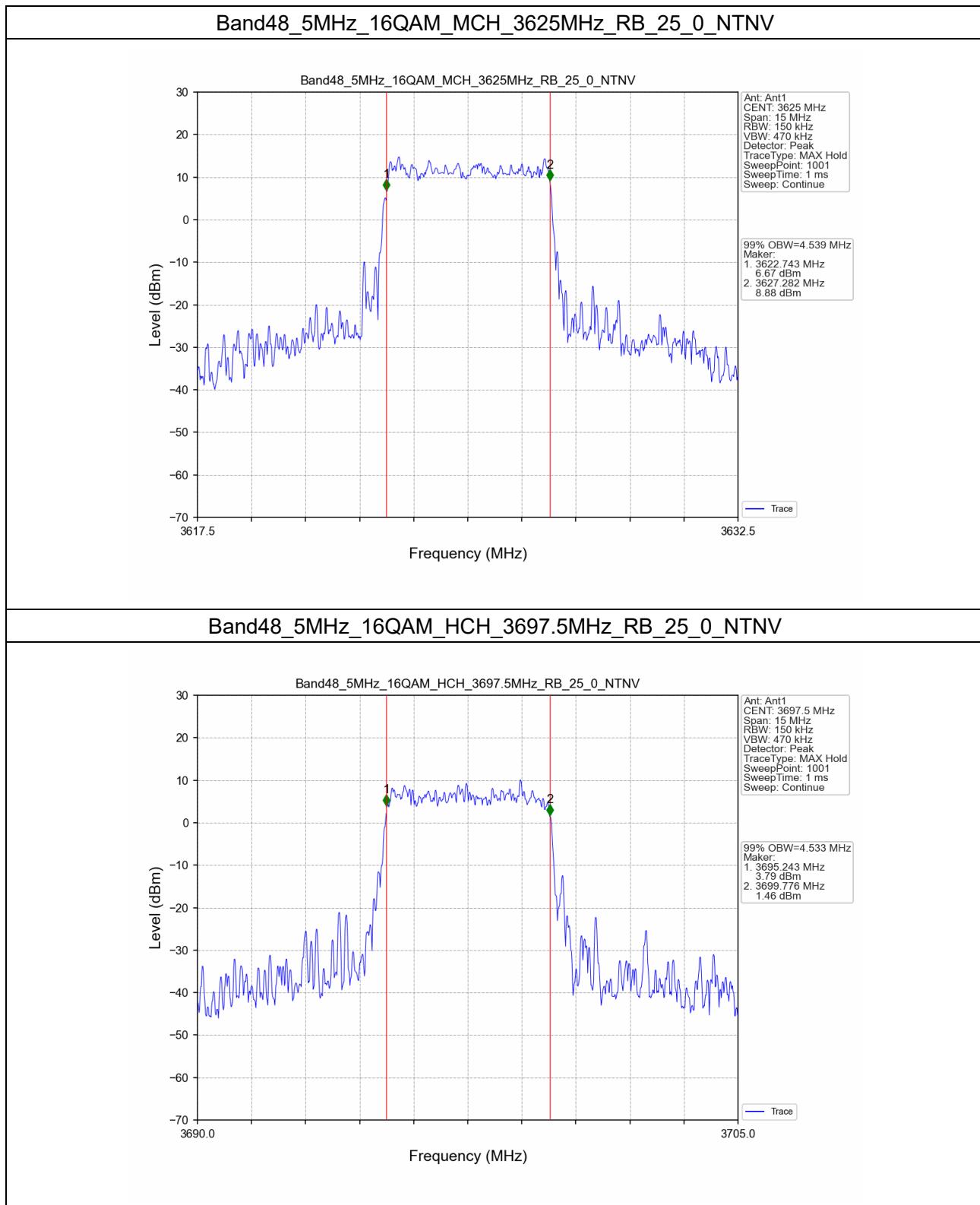


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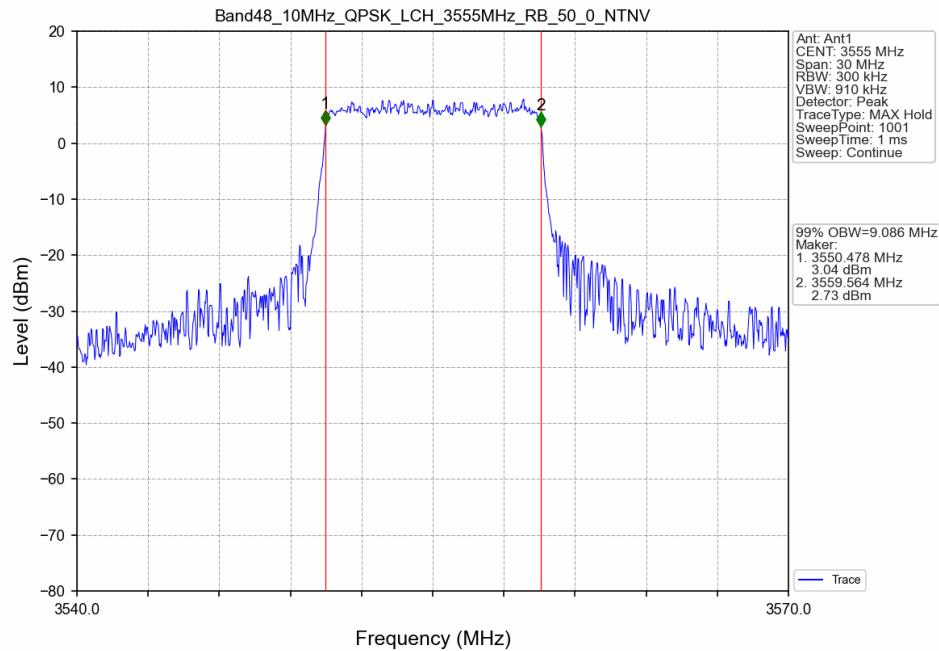


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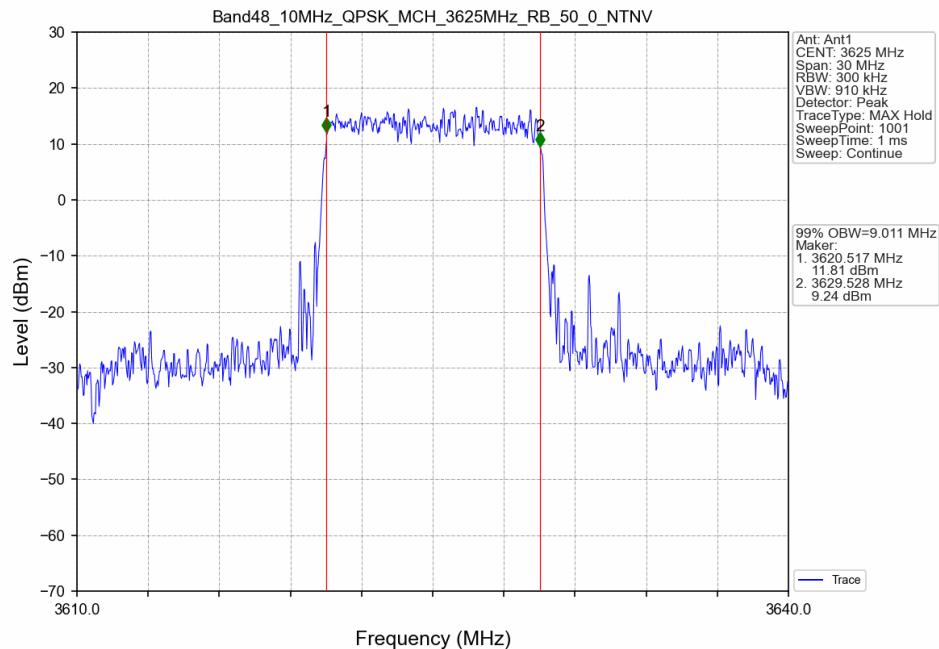
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Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV

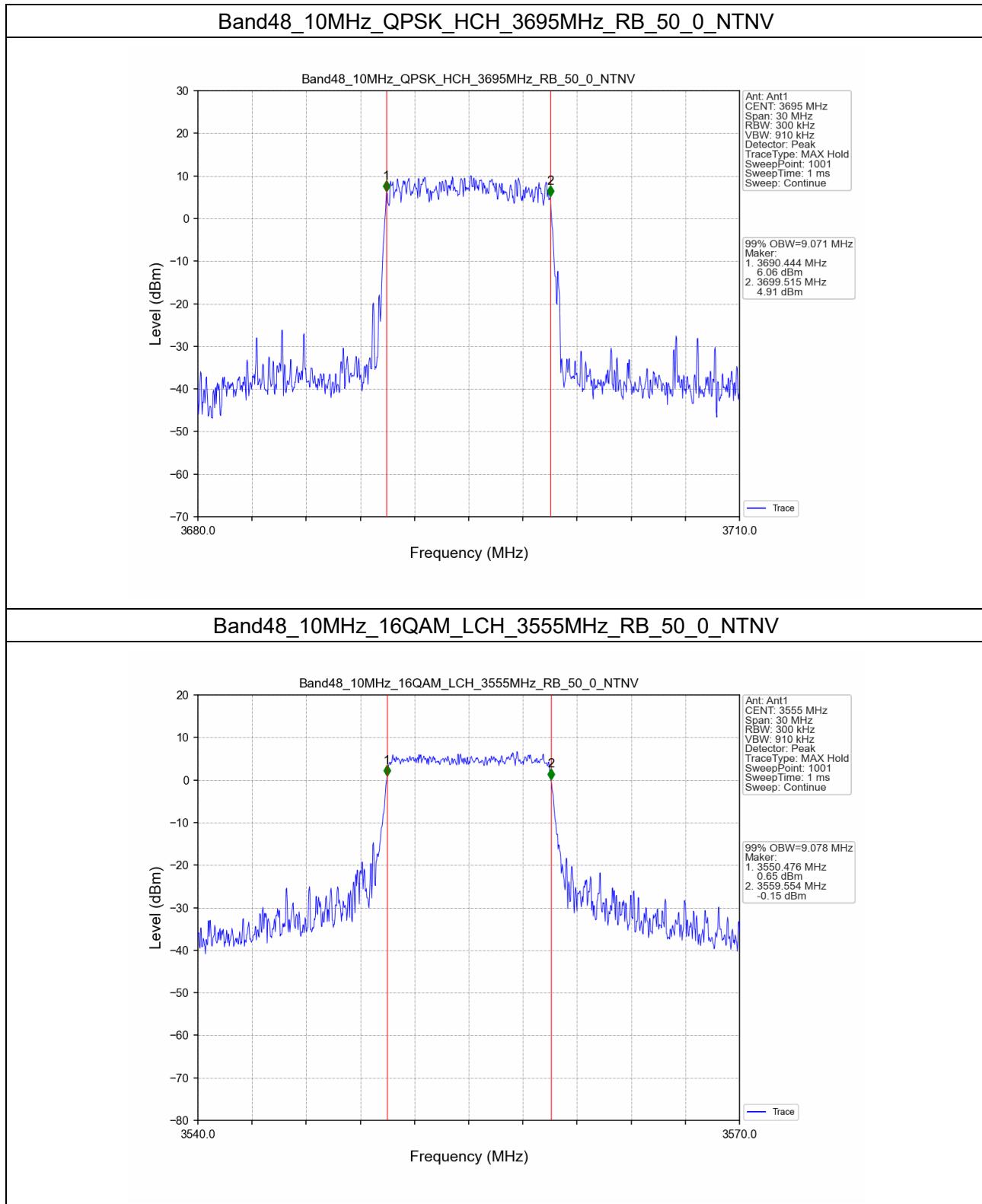


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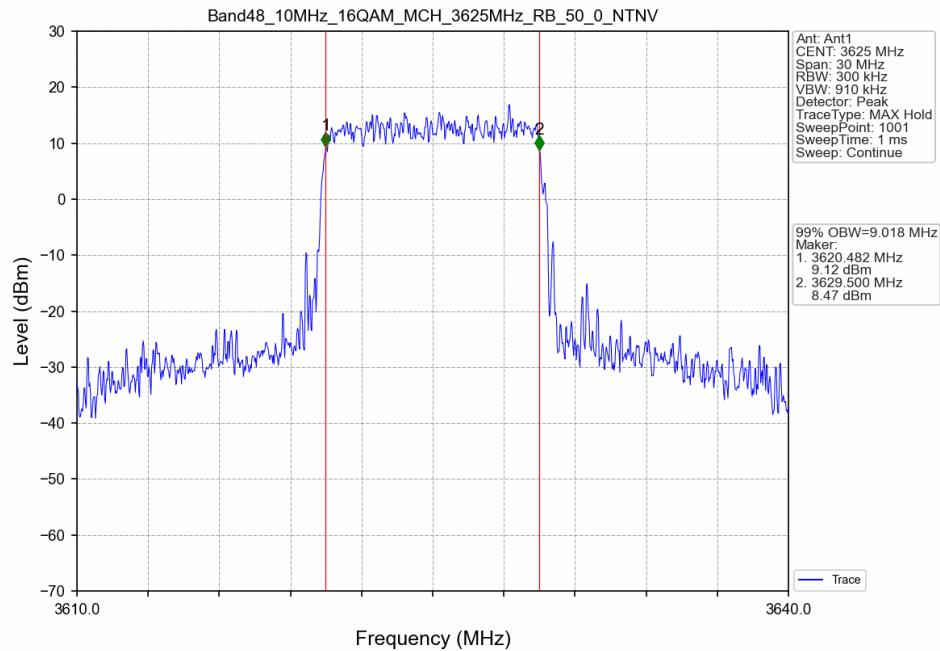
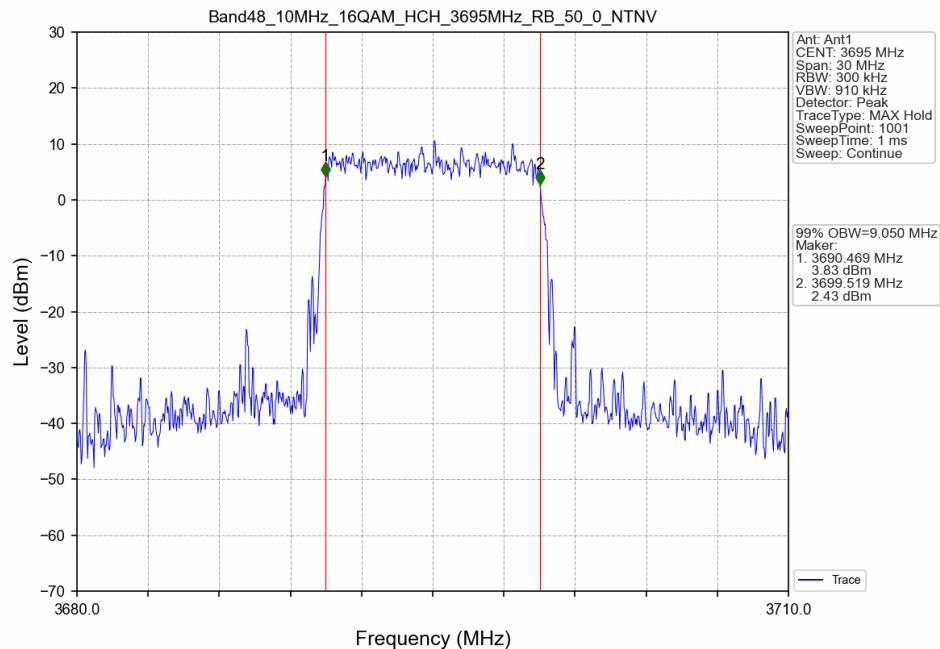


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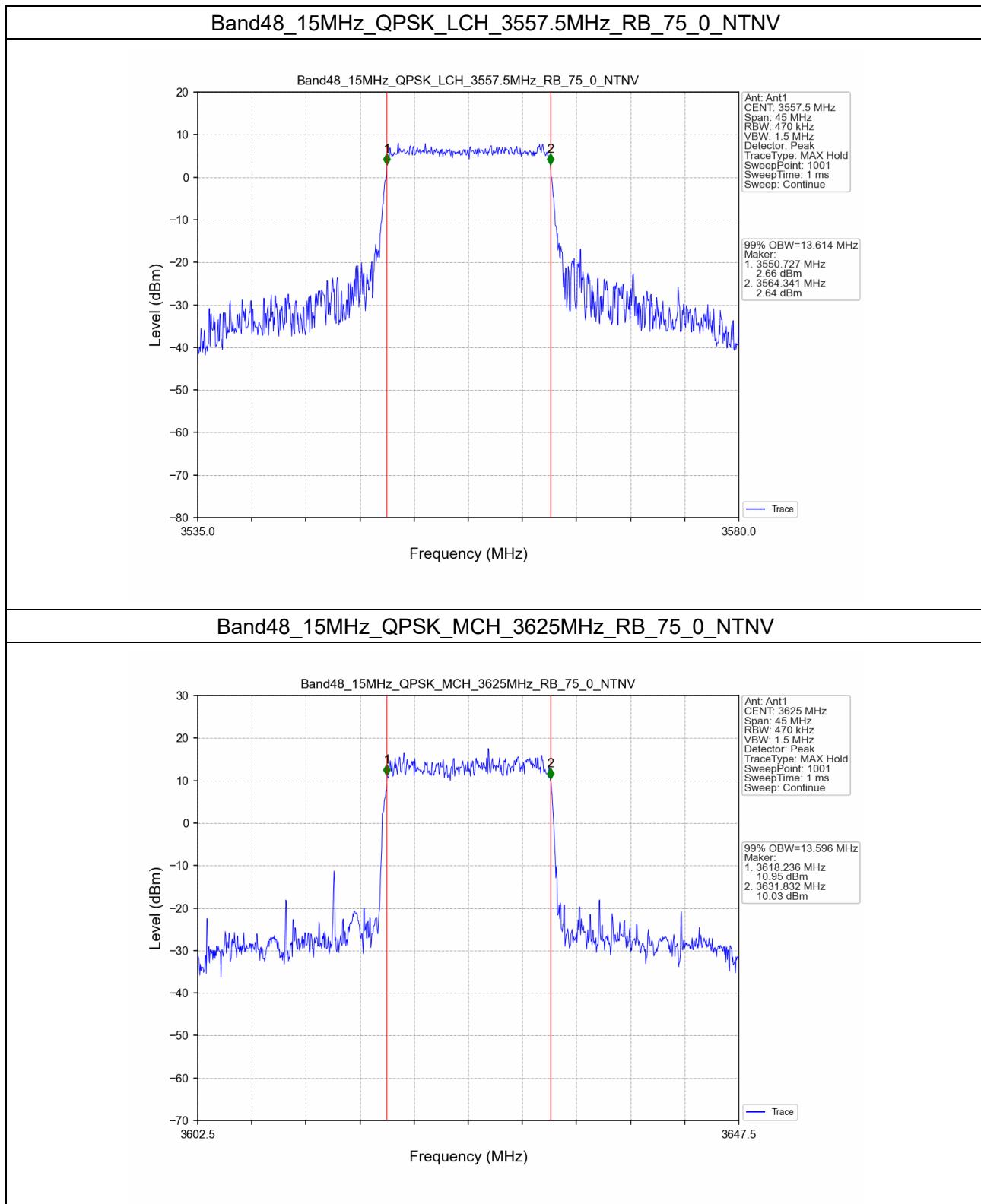
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Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV**Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV**

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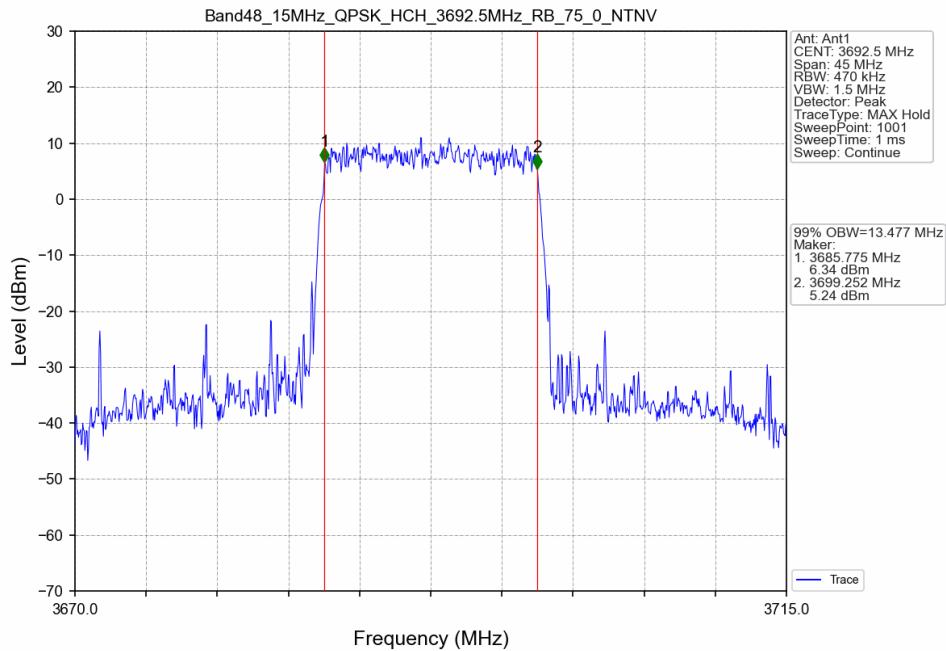
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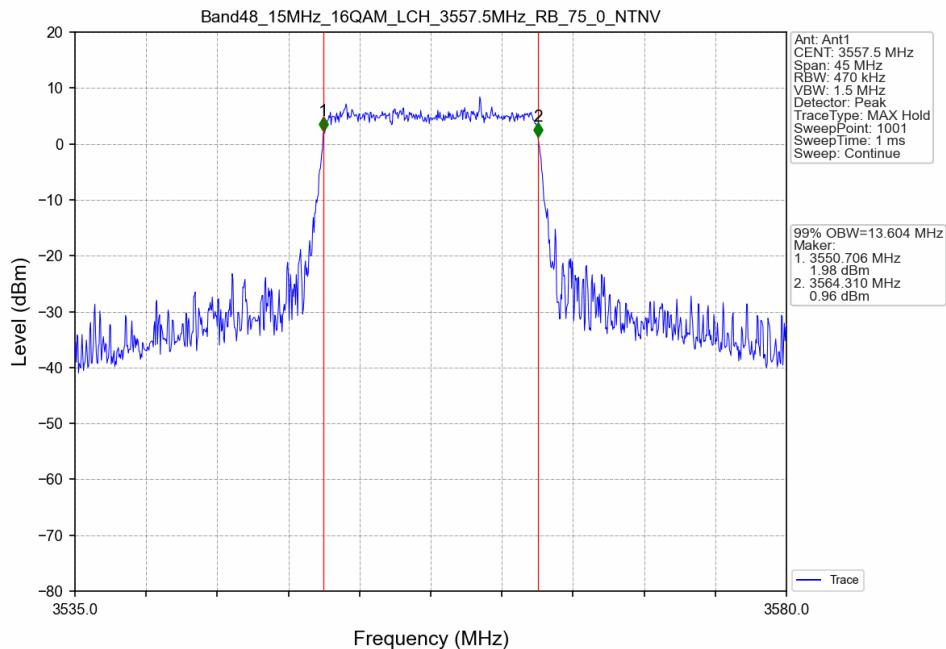
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



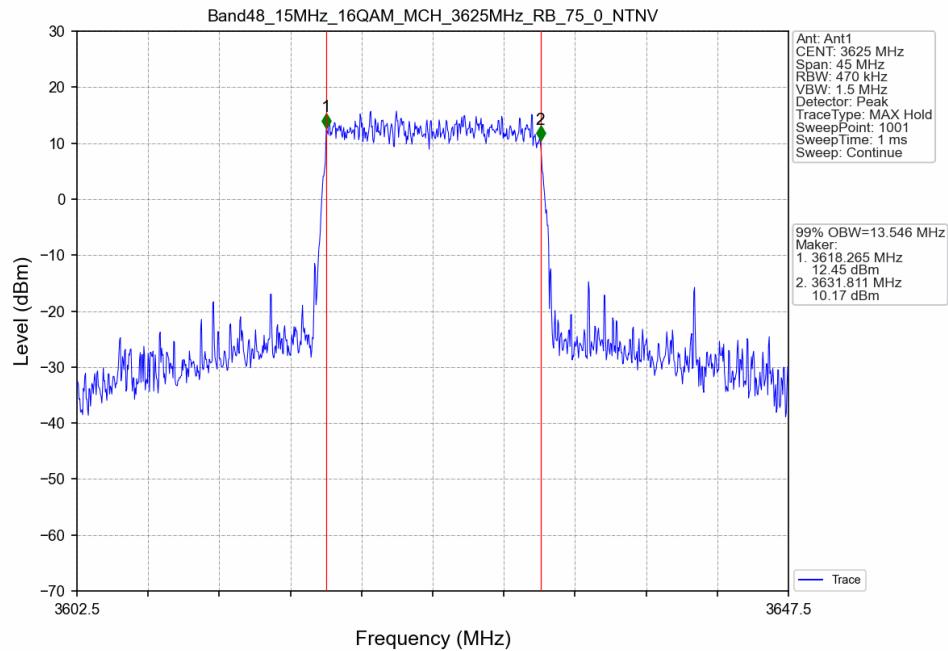
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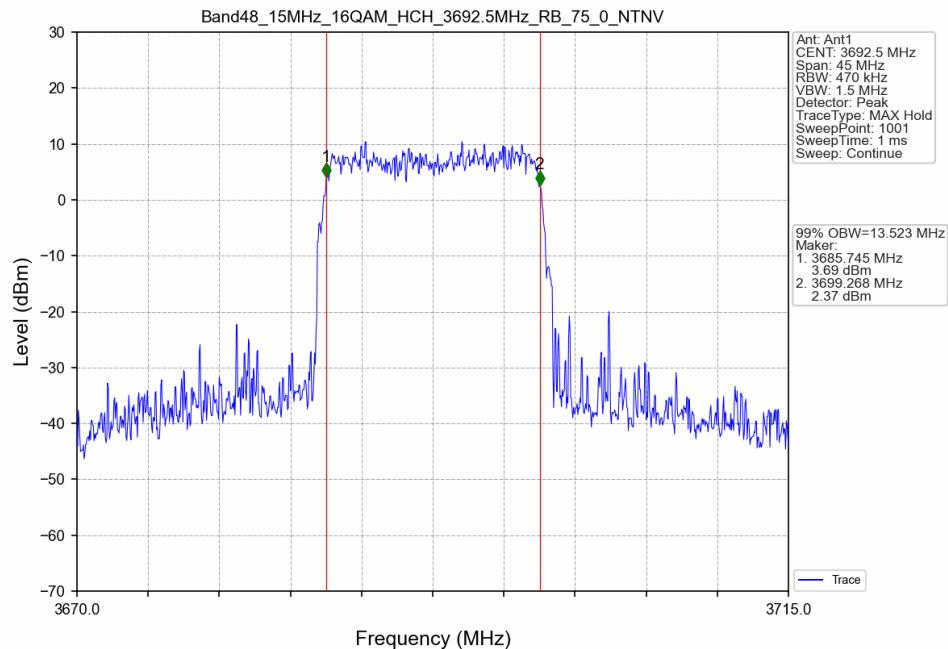
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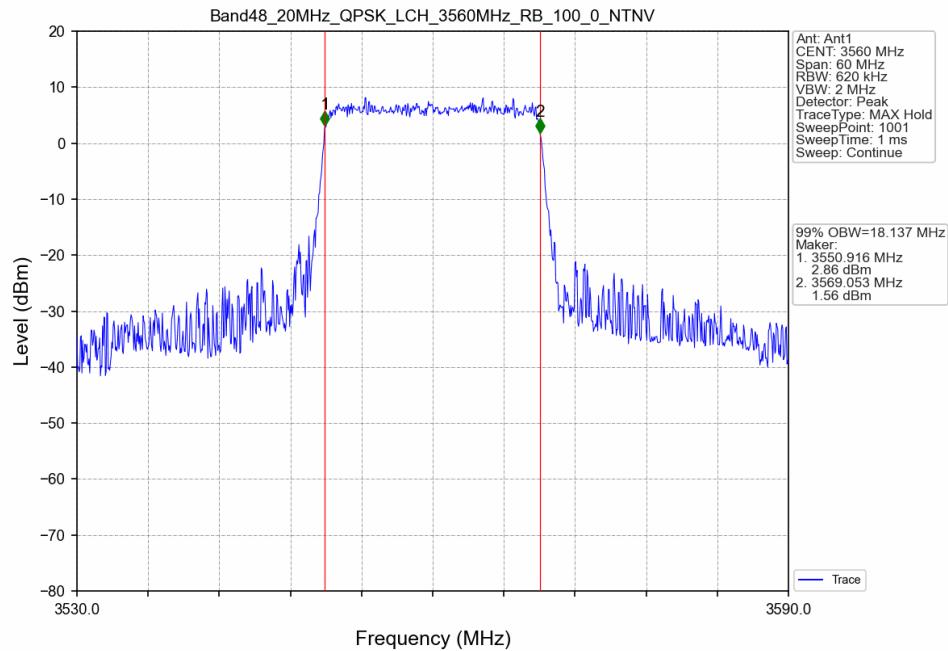


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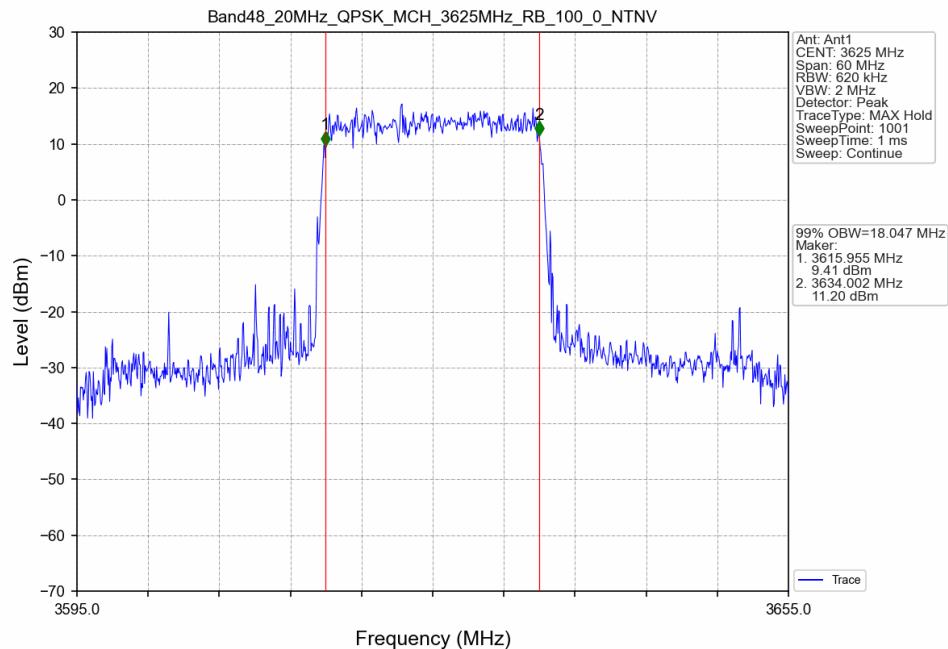
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Band48_20MHz_QPSK_MCH_3625MHz_RB_100_0_NTNV

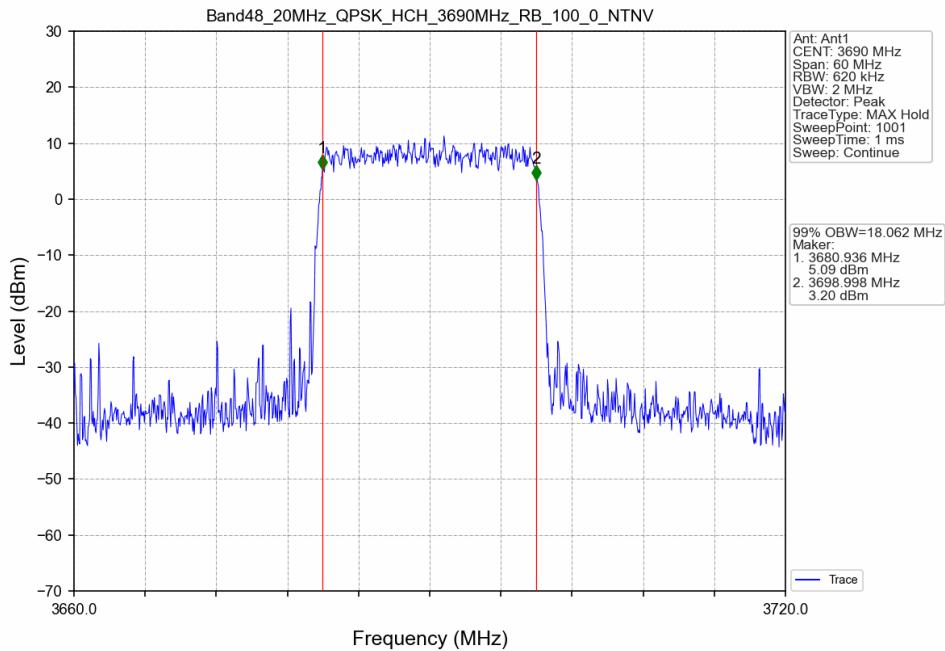
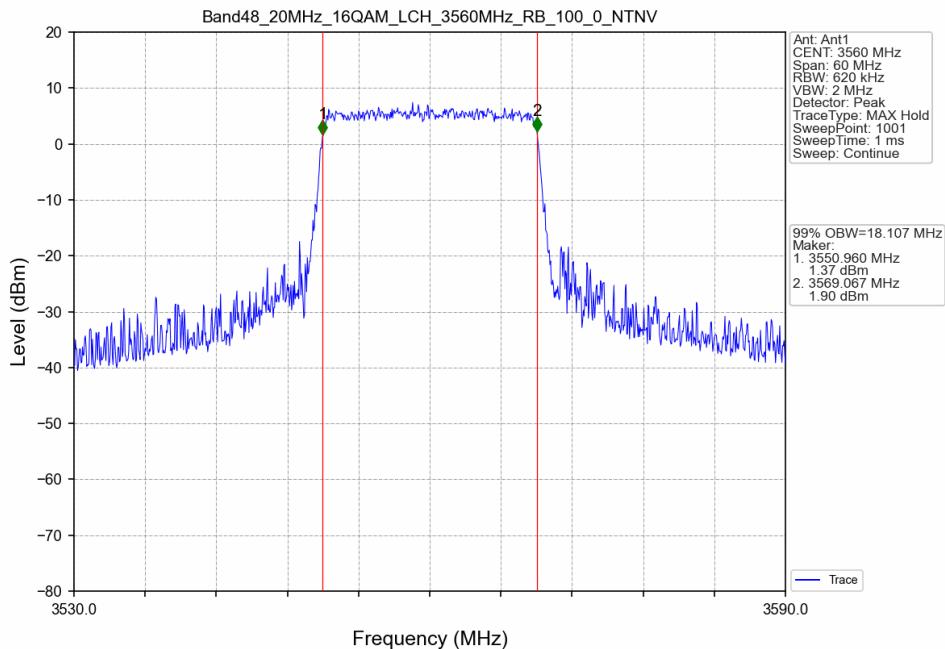


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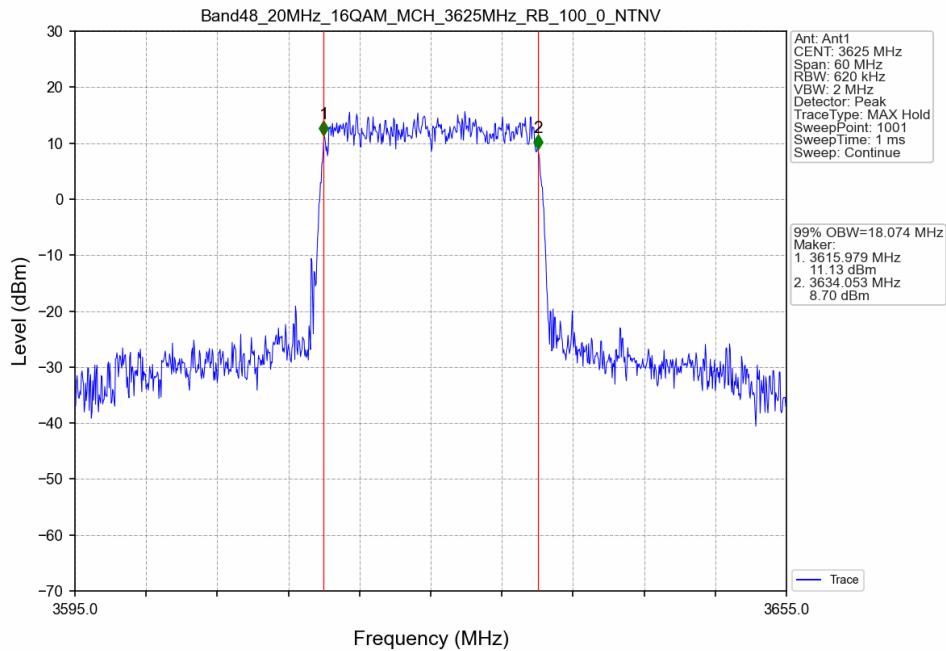
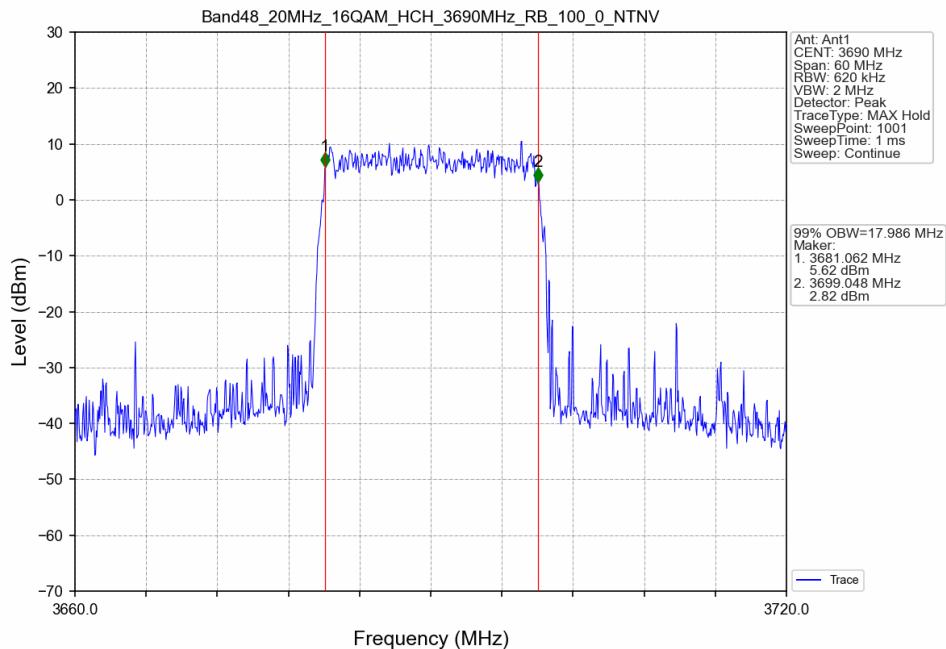
Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV**Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV**

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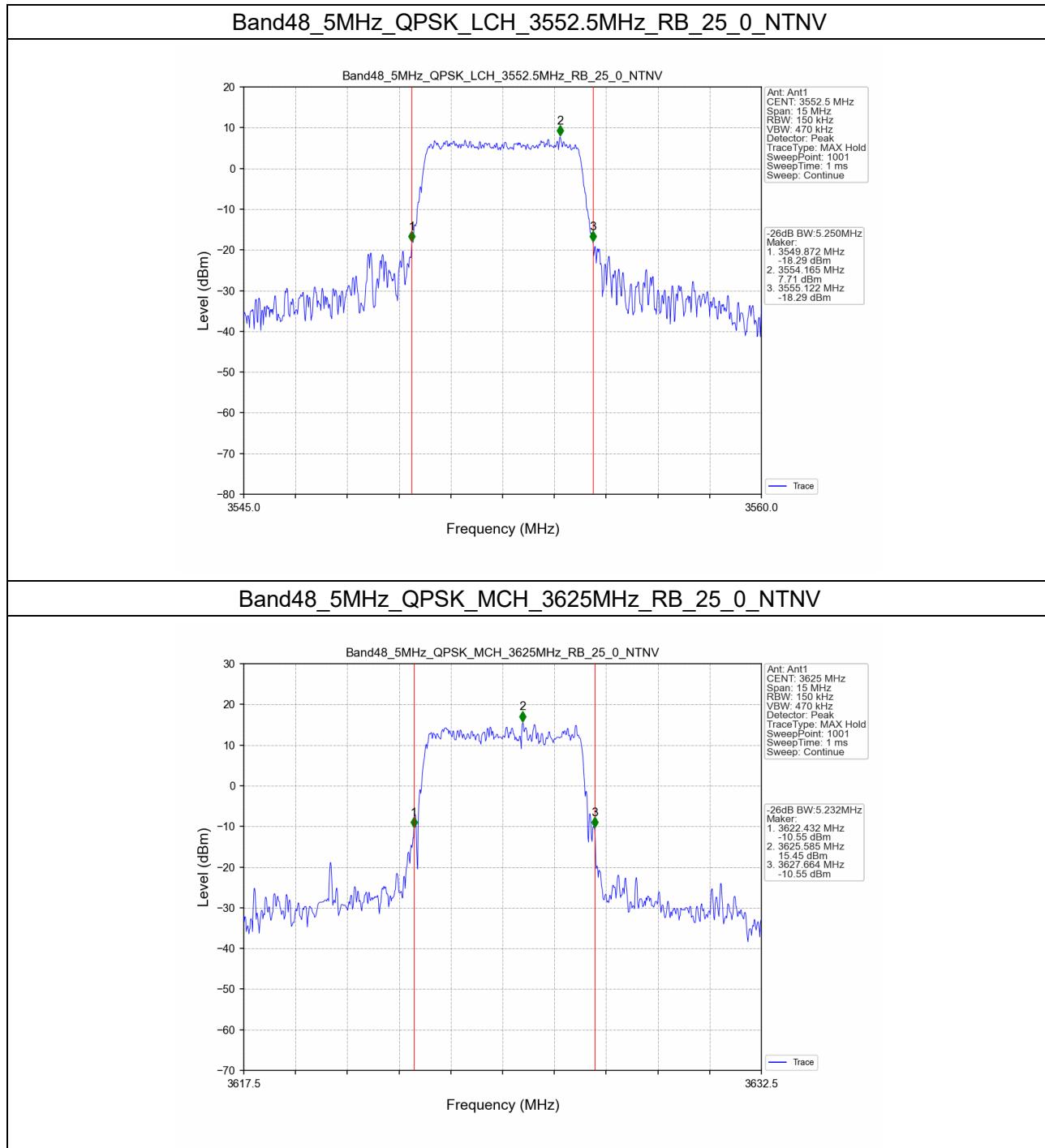
Band48_20MHz_16QAM_MCH_3625MHz_RB_100_0_NTNV**Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV**

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2.2.2 Band48_XDB

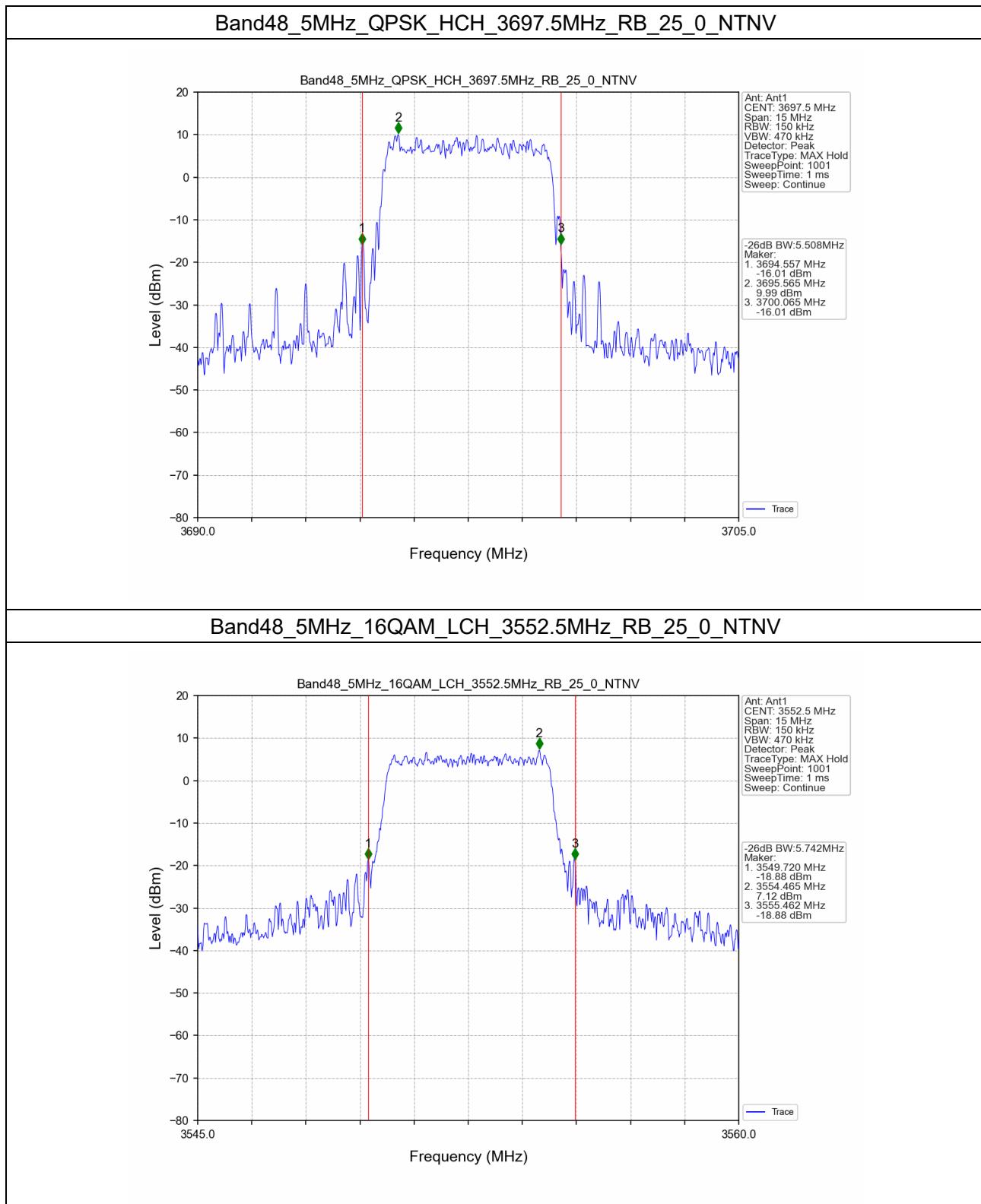


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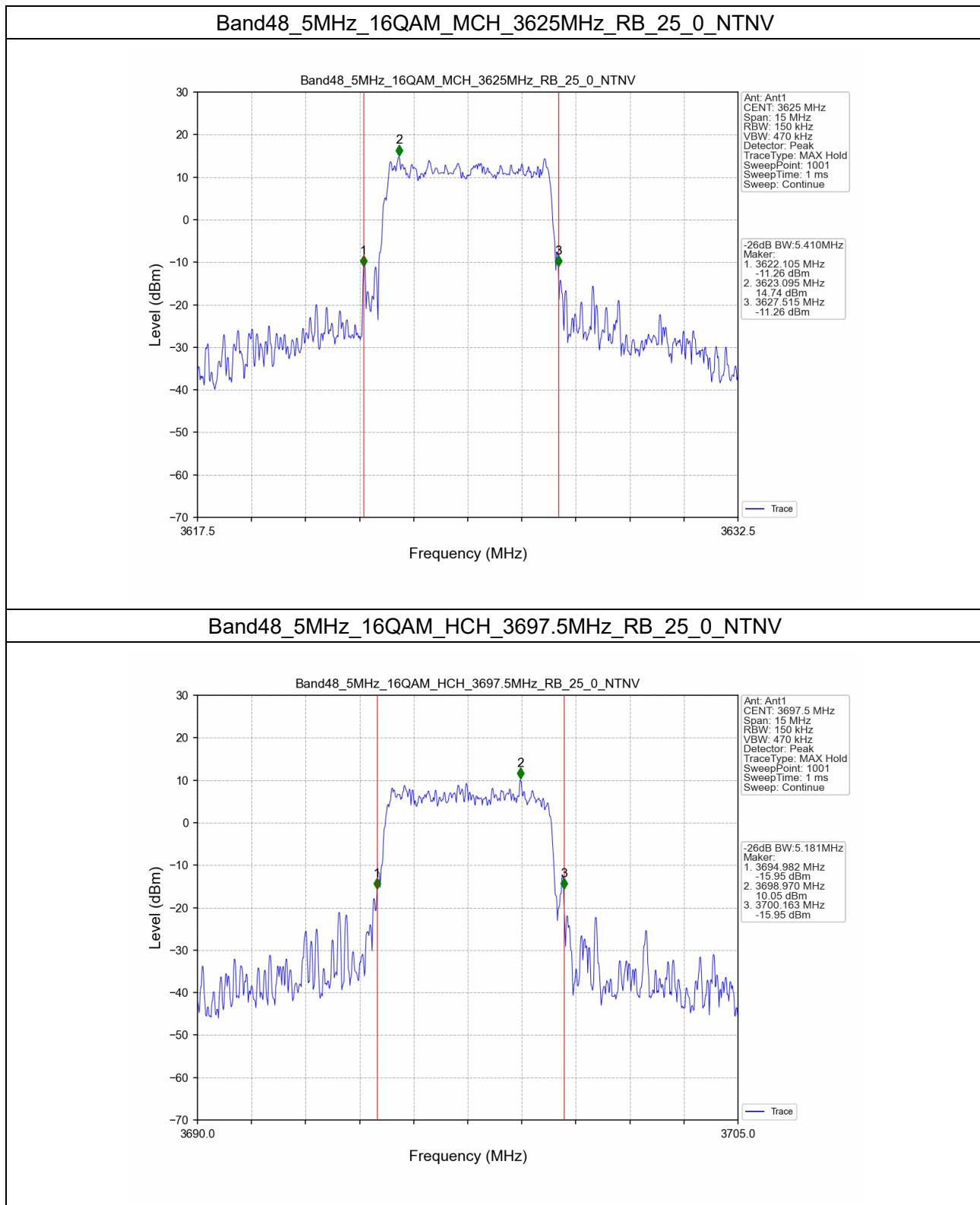
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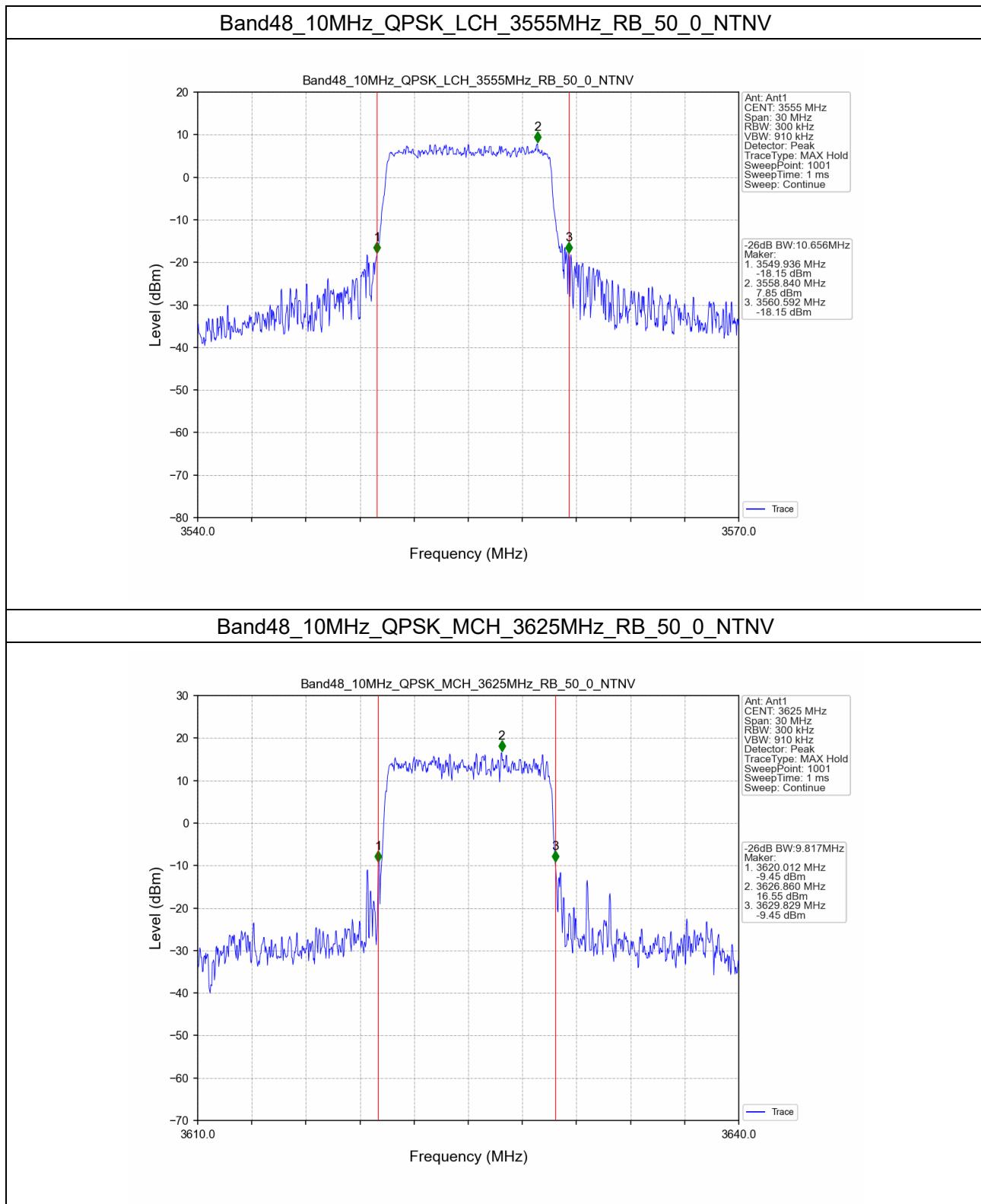


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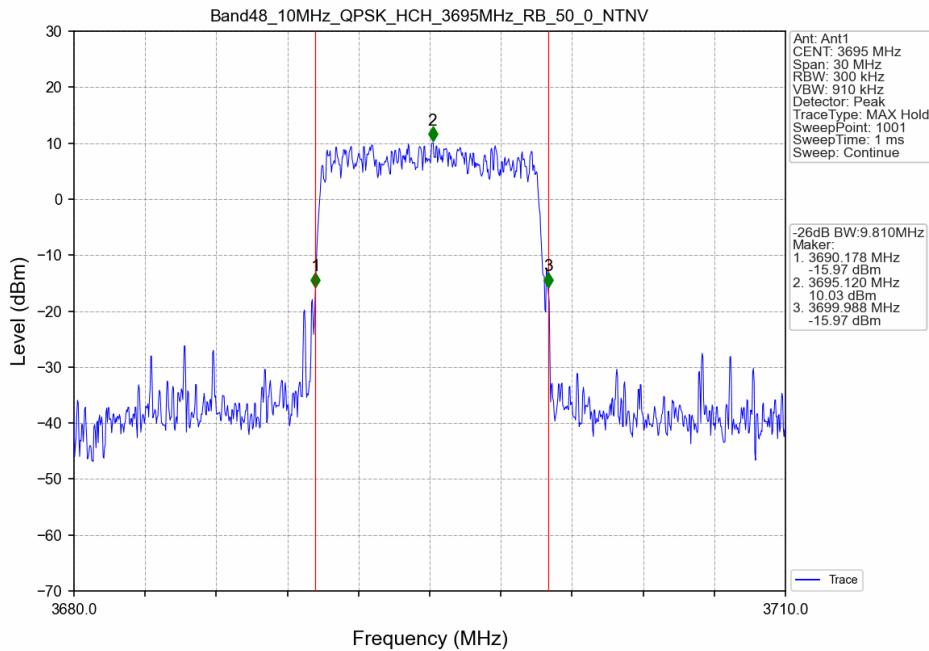
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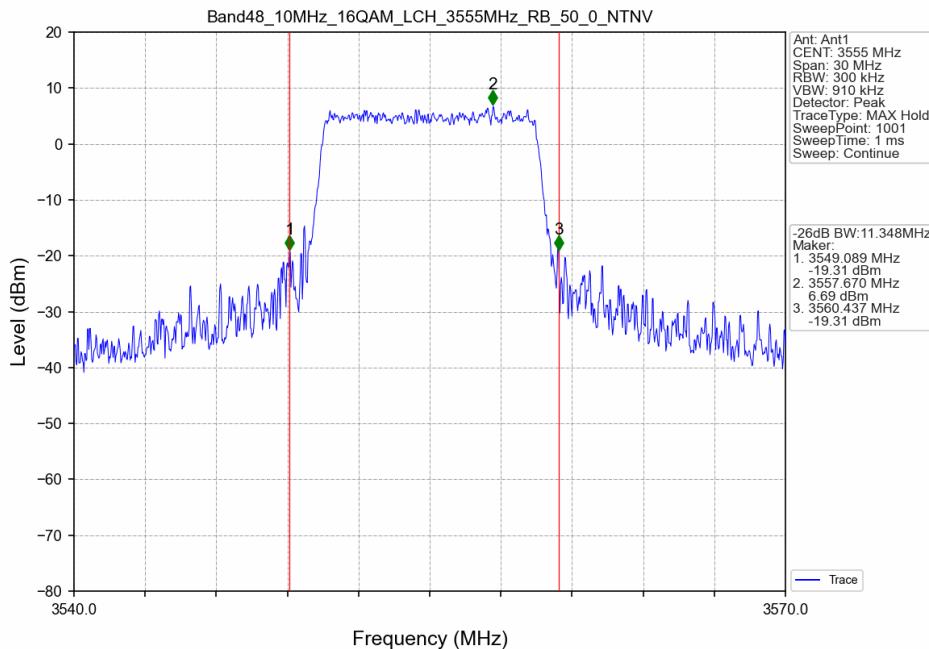
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Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



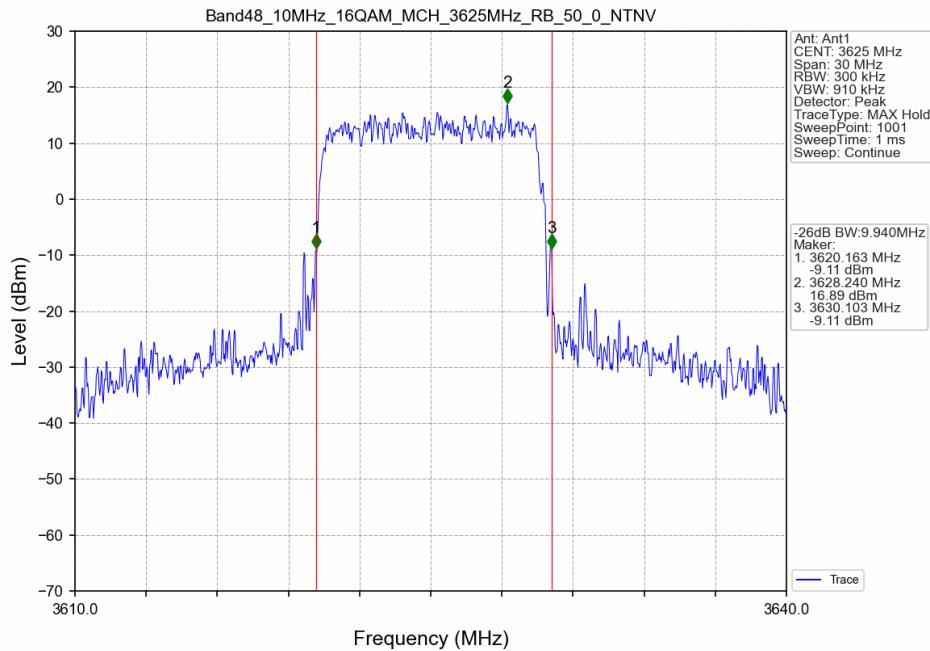
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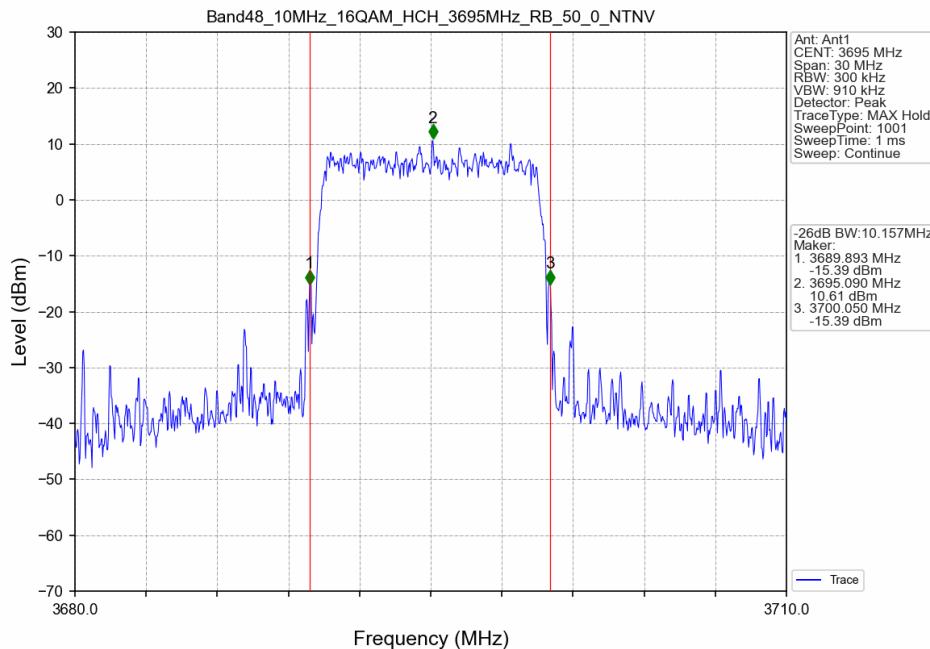
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Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV



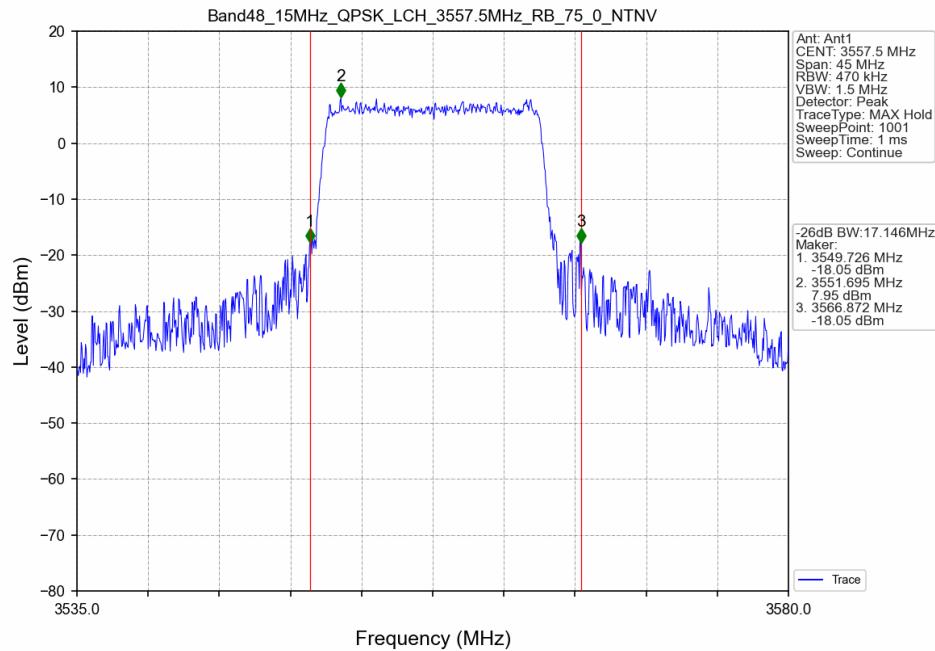
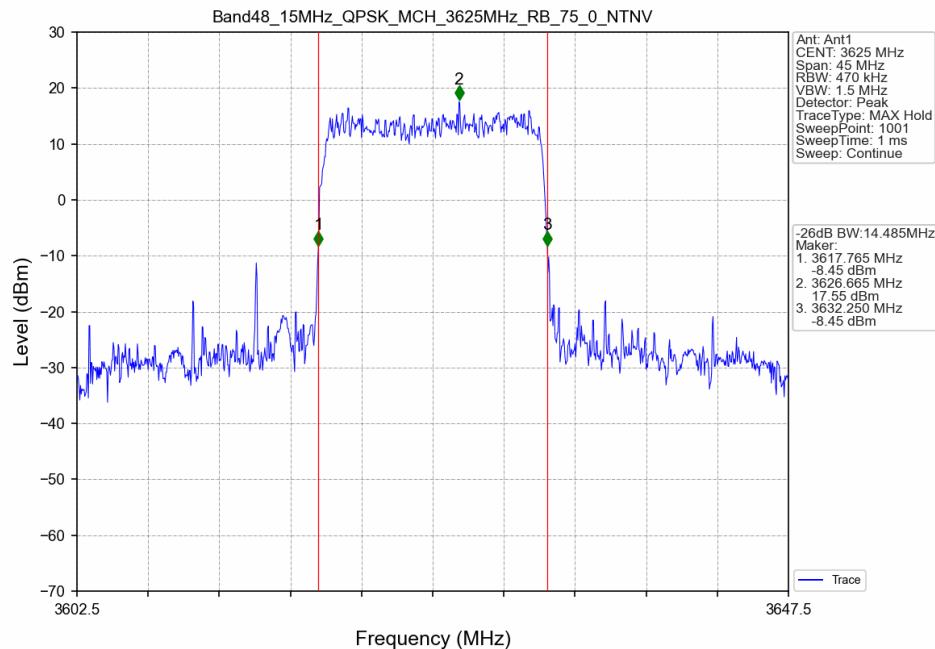
Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV



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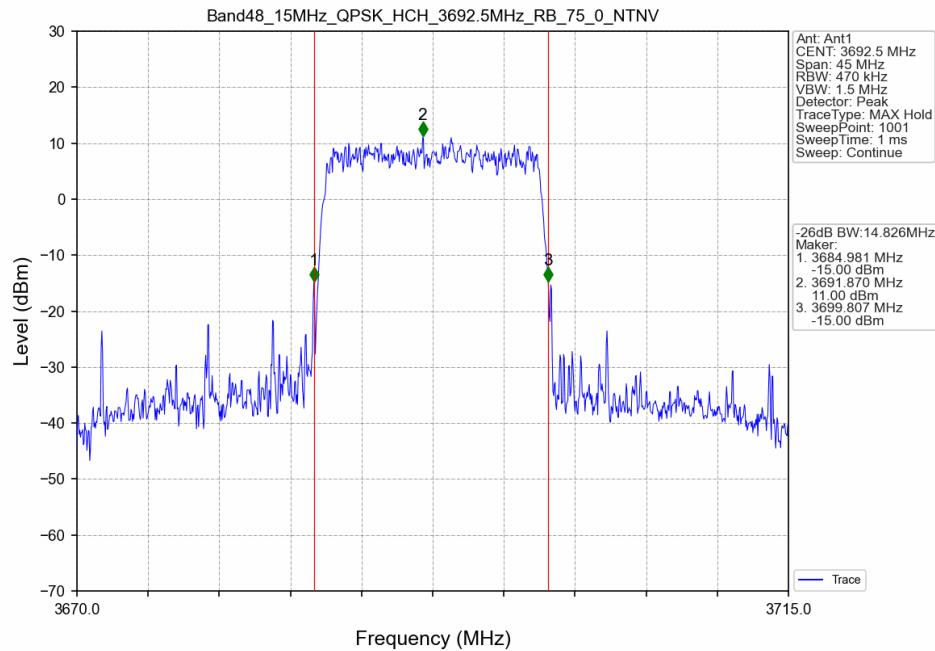
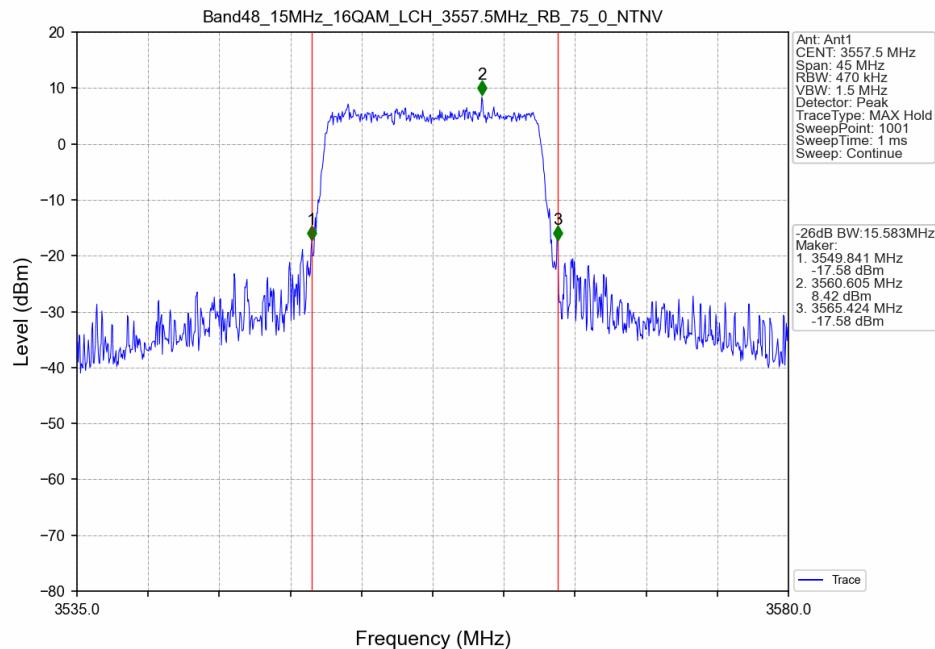
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Band48_15MHz_QPSK_LCH_3557.5MHz_RB_75_0_NTNV**Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV**

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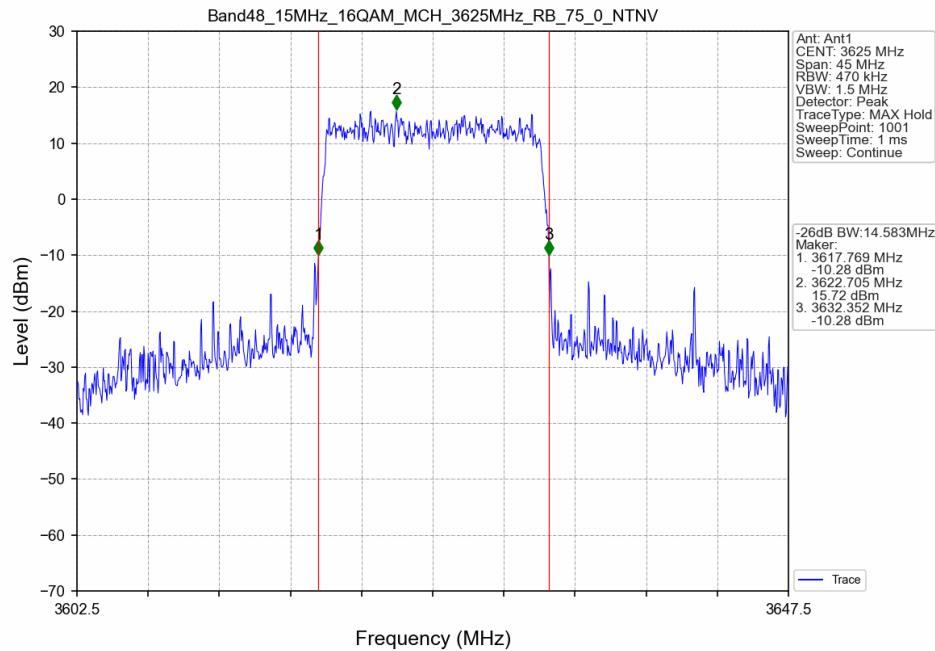
Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV**Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV**

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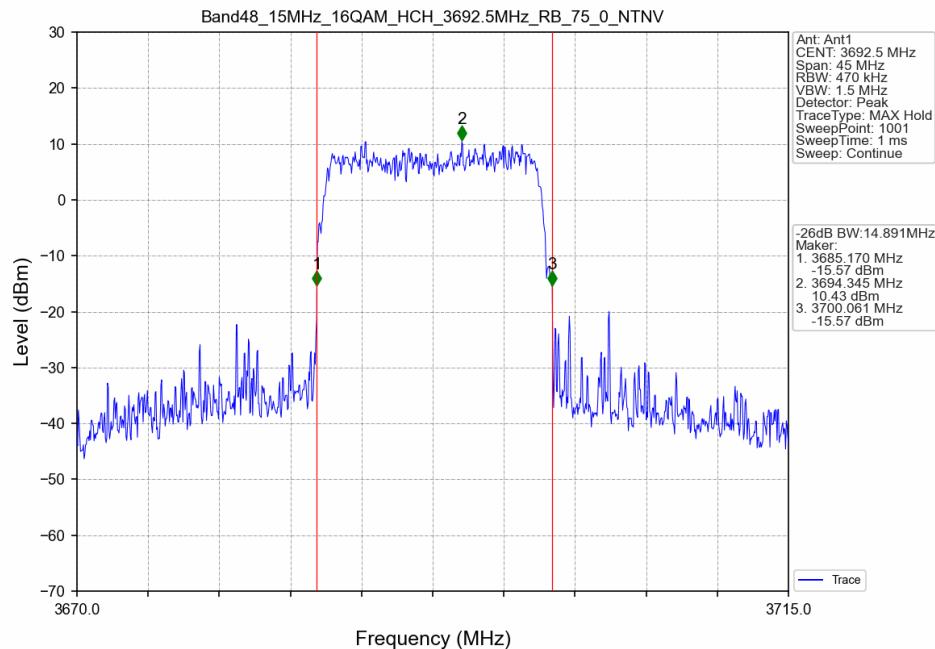
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Band48_15MHz_16QAM_MCH_3625MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV

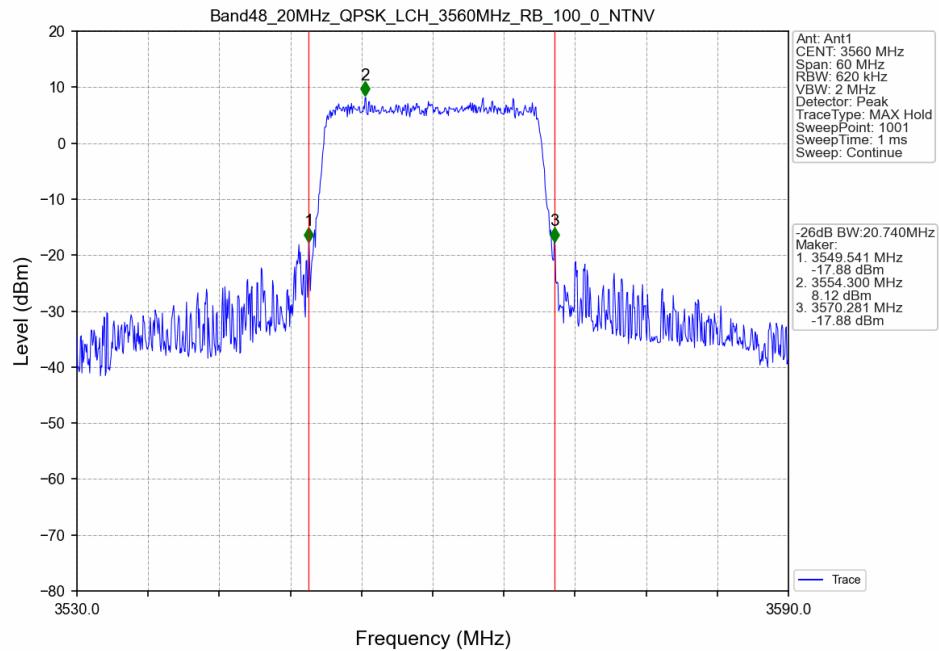


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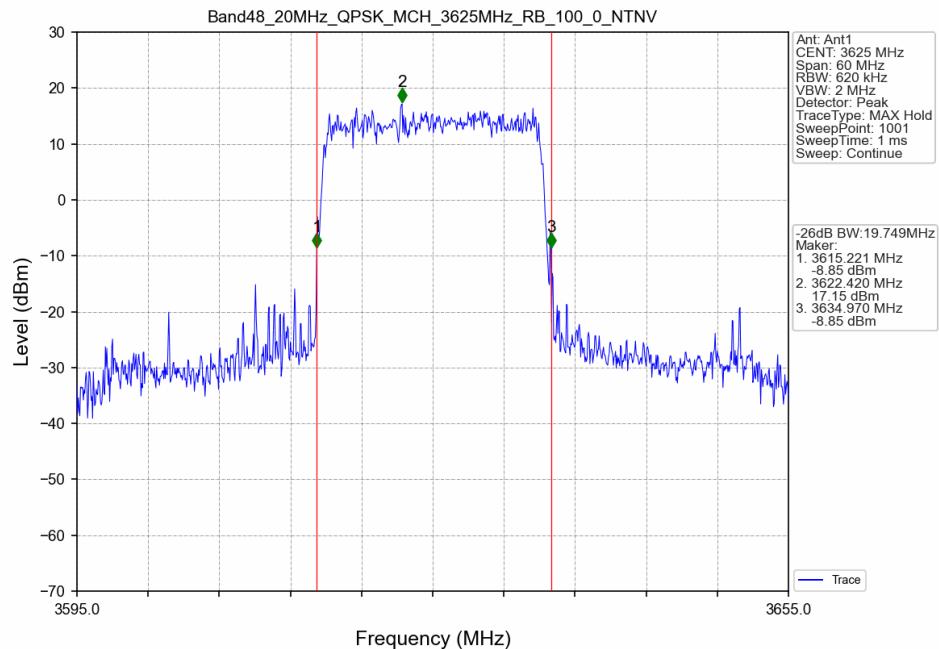
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Band48_20MHz_QPSK_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_100_0_NTNV



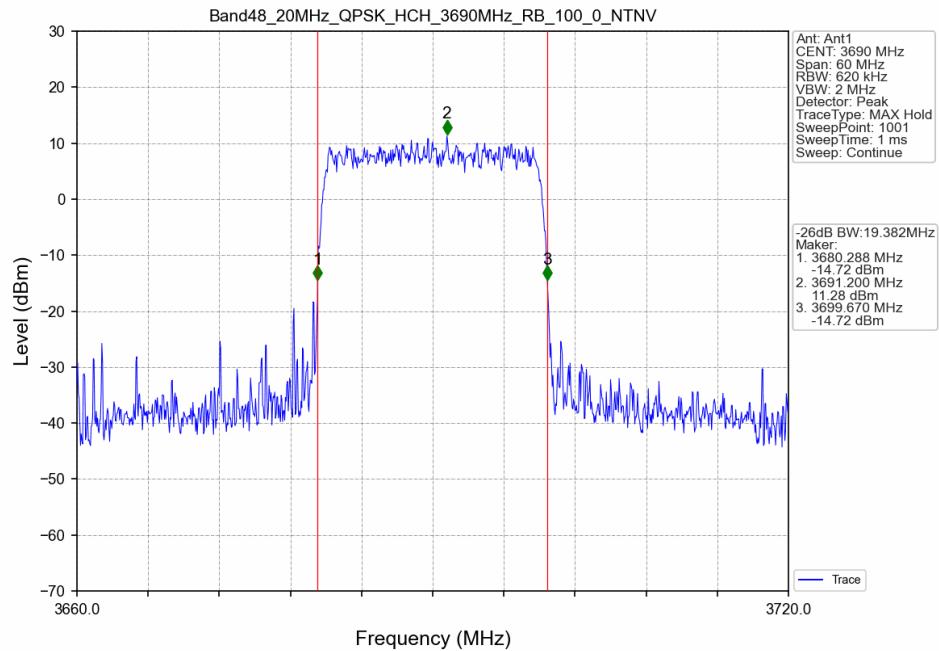
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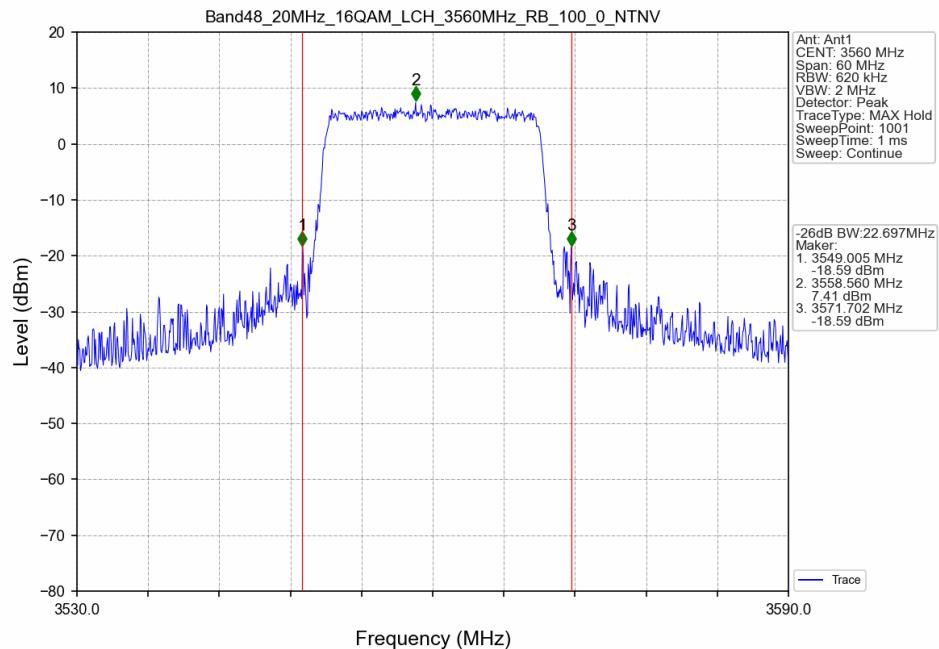
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Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV

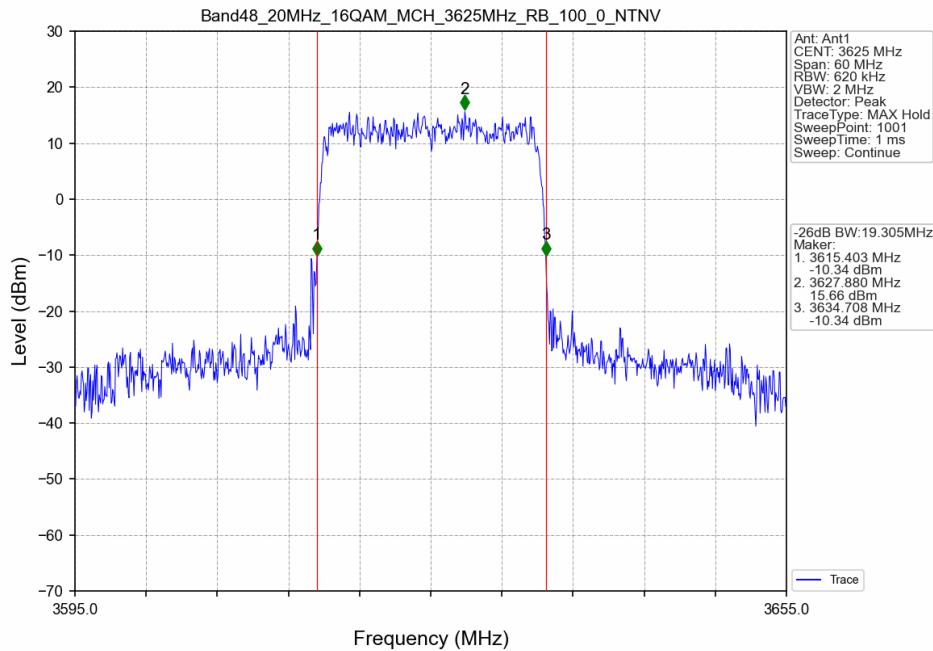


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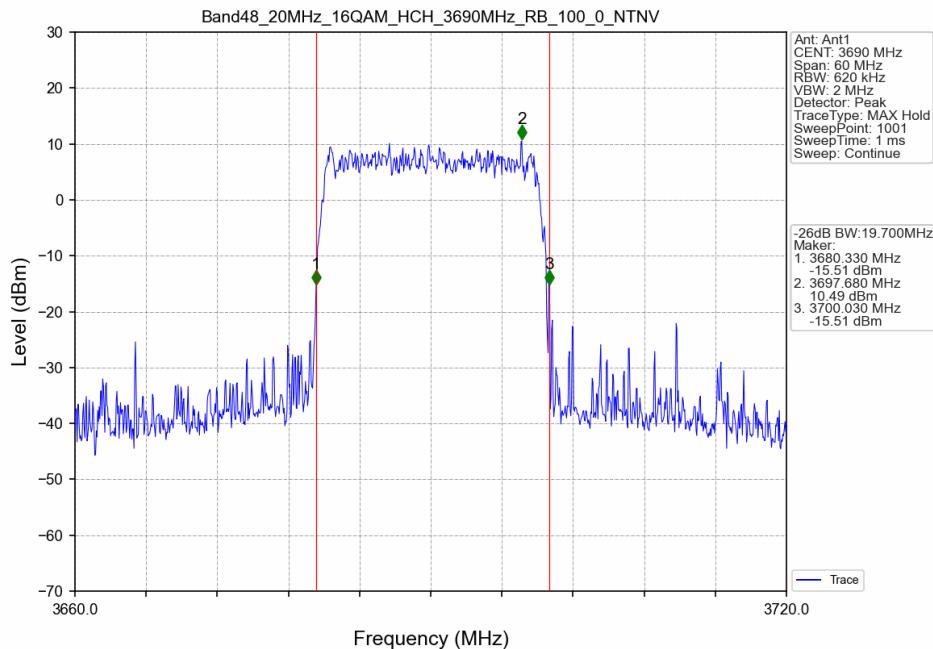
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Band48_20MHz_16QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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3. Spurious Emission

3.1 Test Result

3.1.1 B48_5MHz

Band: 48 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	3552.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

3.1.2 B48_10MHz

Band: 48 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	3555	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	3695	1	0	Refer To Test Graph		Pass



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		49	Refer To Test Graph	Pass
		50	Refer To Test Graph	Pass

3.1.3 B48_15MHz

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	3557.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3692.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

3.1.4 B48_20MHz

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	3560	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
	3690	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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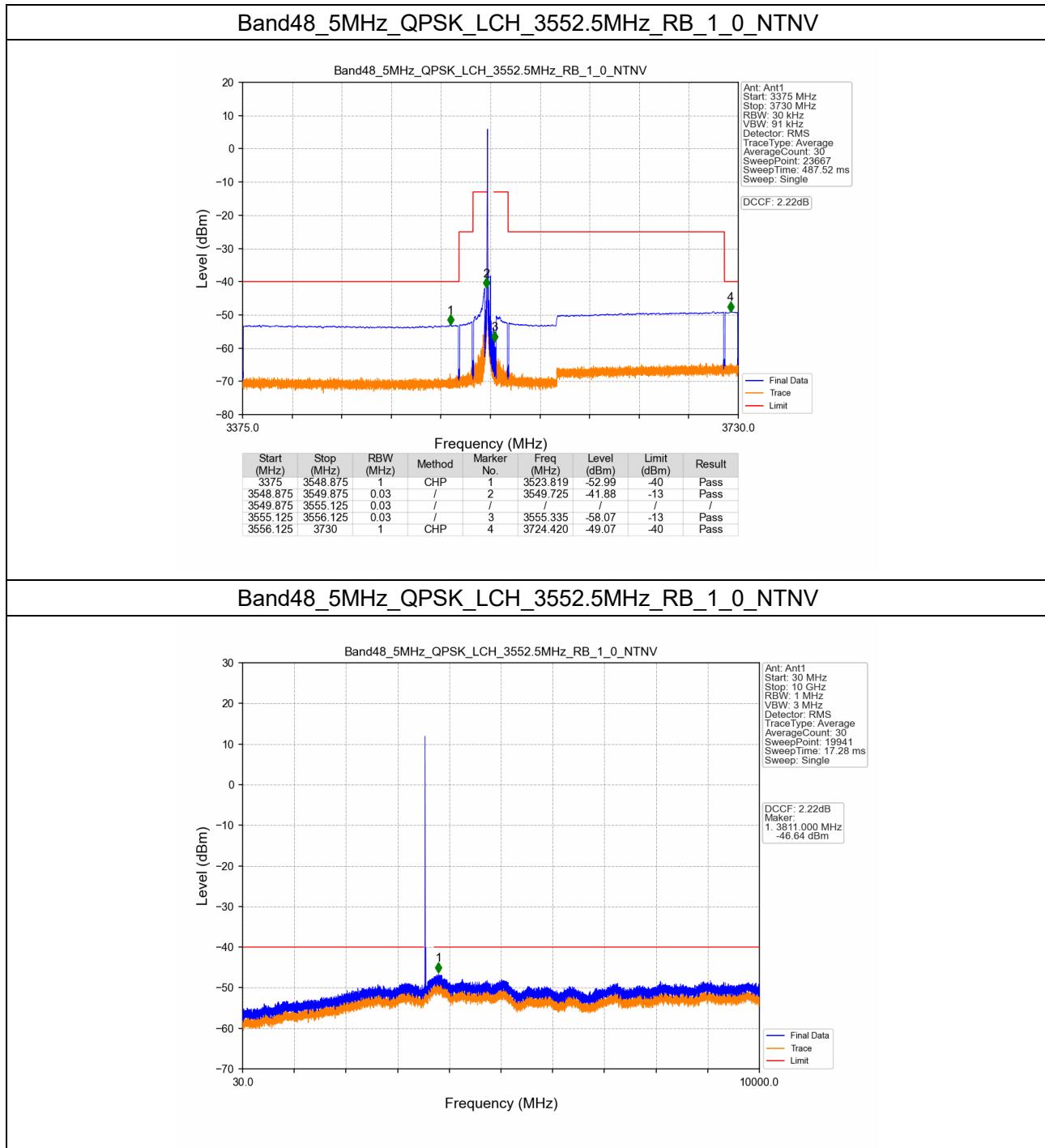
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3.2 Test Graph

3.2.1 B48_5MHz

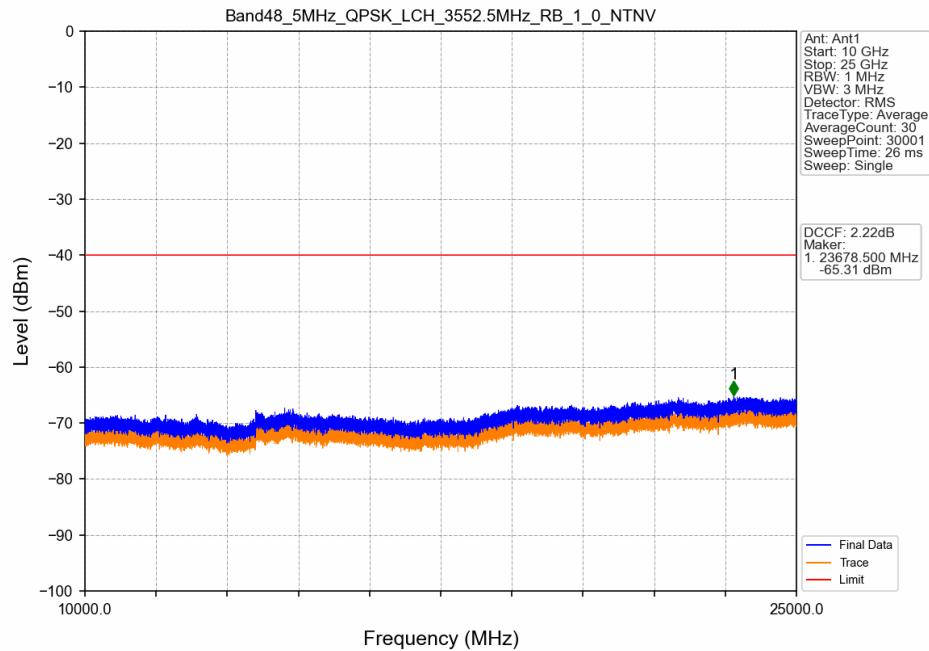


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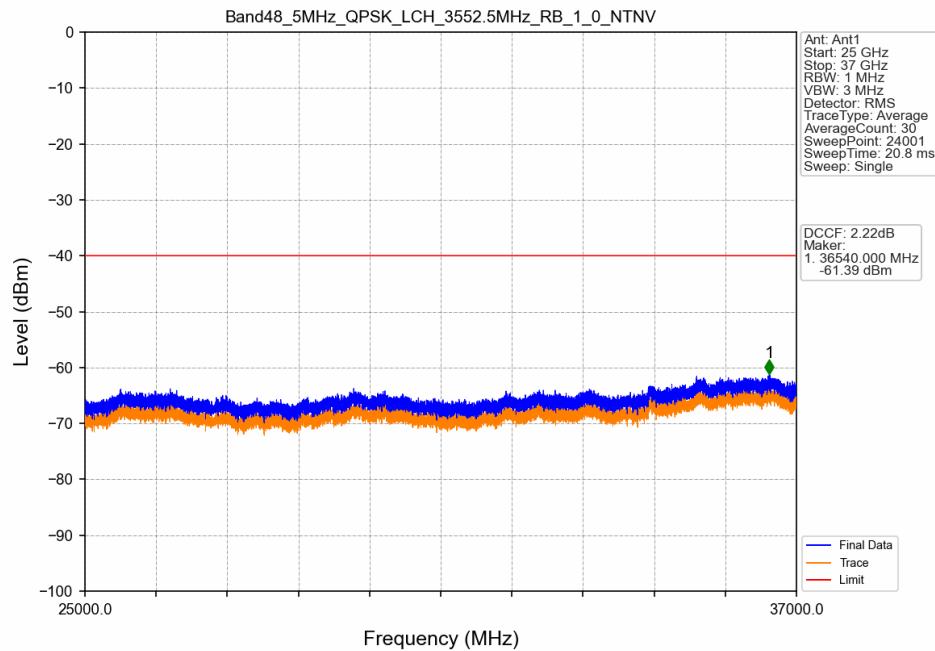
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



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