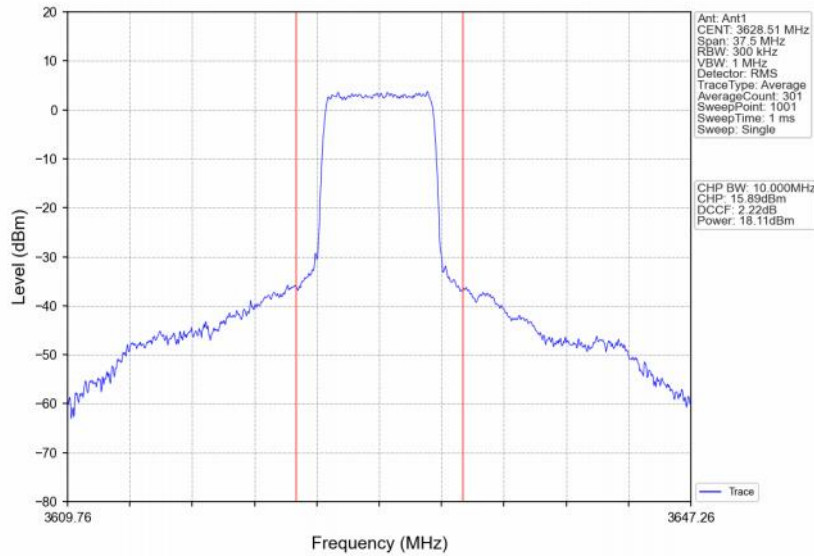
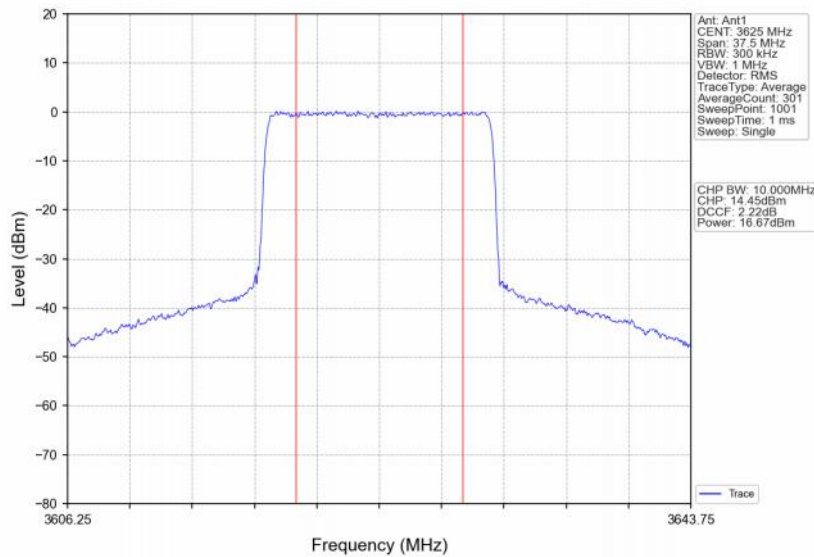


Band48_15MHz_QPSK_MCH_3625MHz_RB_36_39_NTNV



Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV

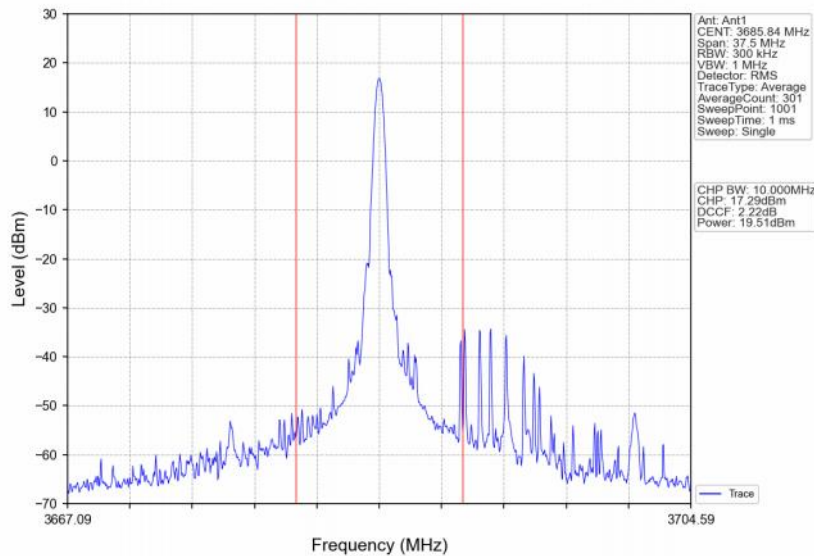


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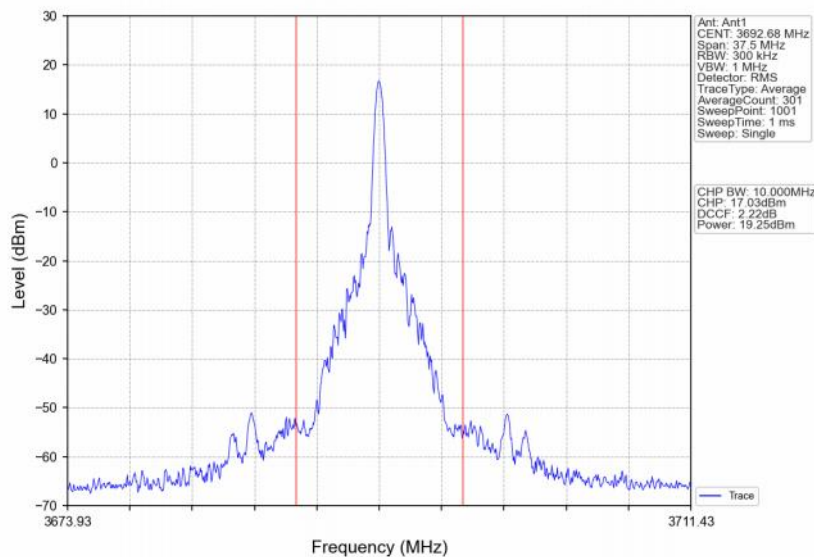
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_38_NTNV

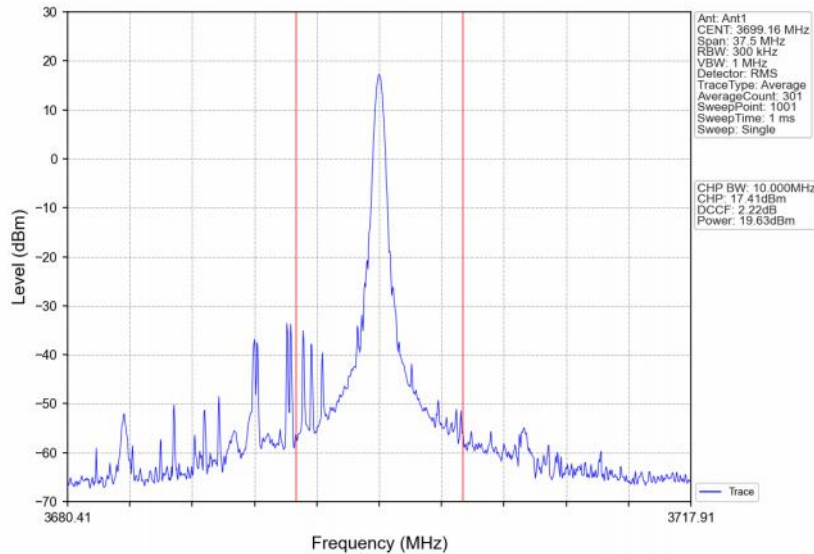


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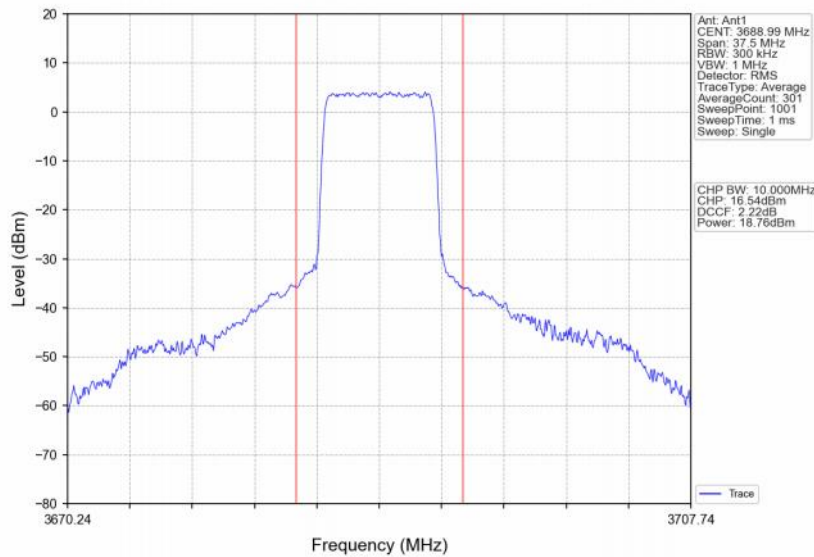
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_74_NTNV



Band48_15MHz_QPSK_HCH_3692.5MHz_RB_36_0_NTNV

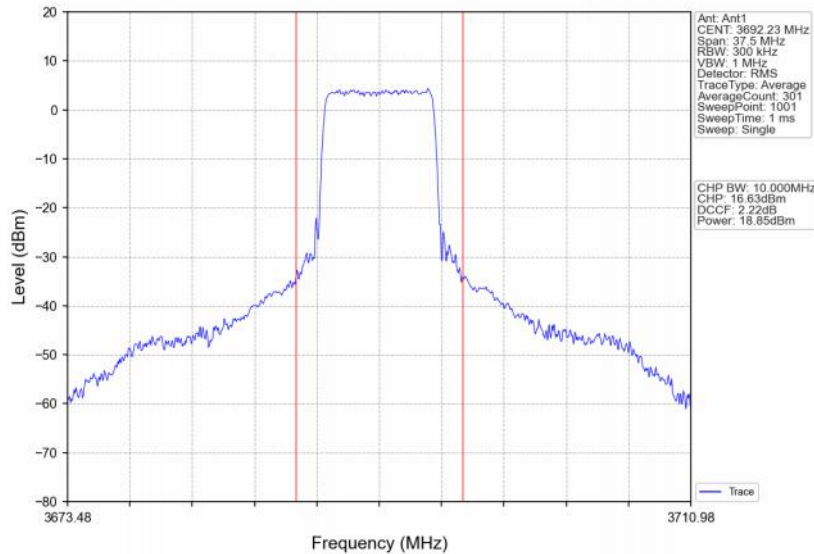


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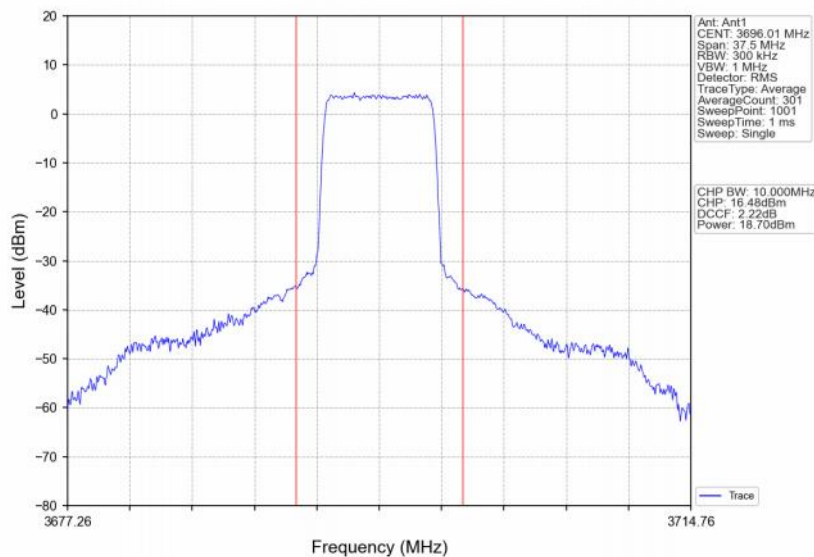
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_36_18_NTNV



Band48_15MHz_QPSK_HCH_3692.5MHz_RB_36_39_NTNV

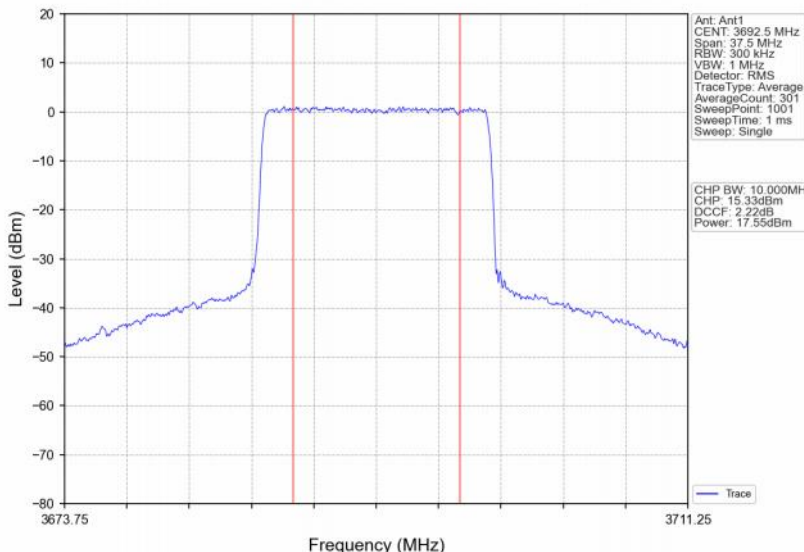


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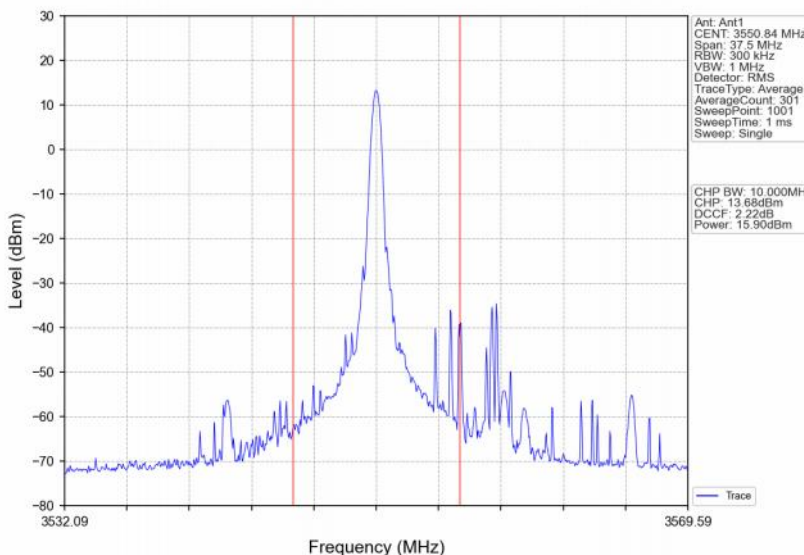
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_1_0_NTNV

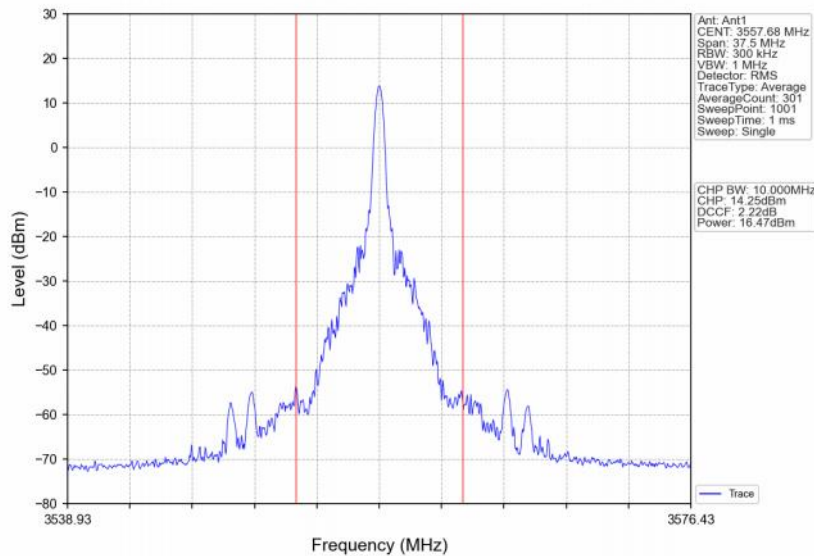


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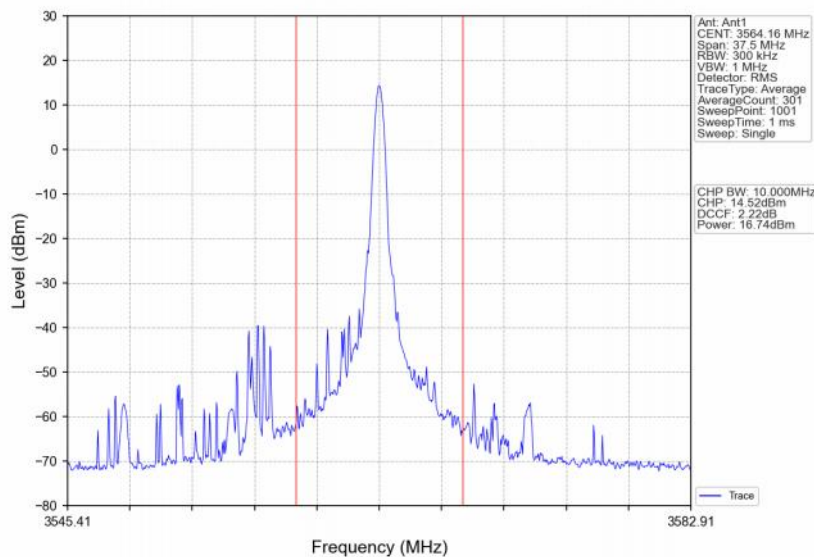
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_1_38_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_1_74_NTNV

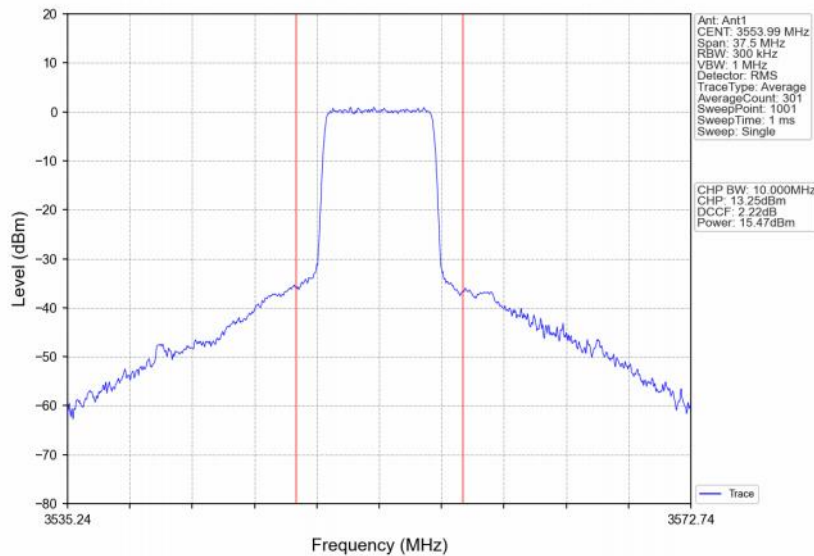


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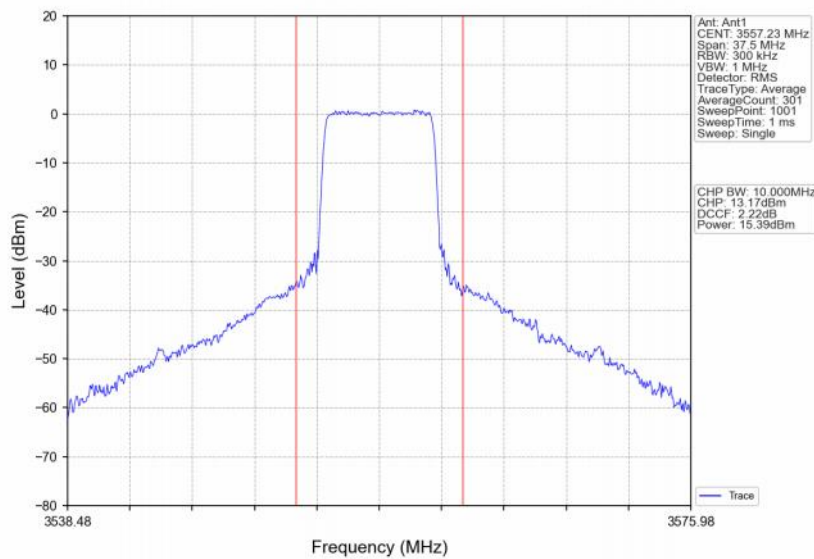
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_36_0_NTNV



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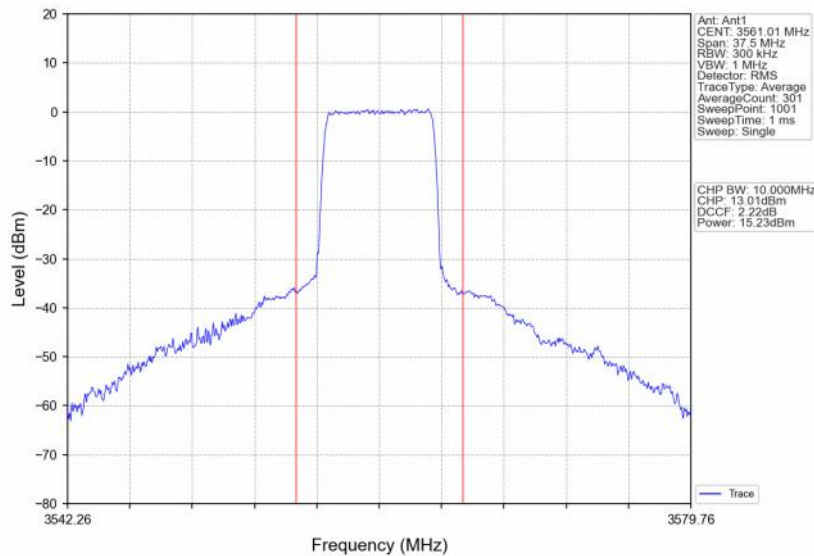


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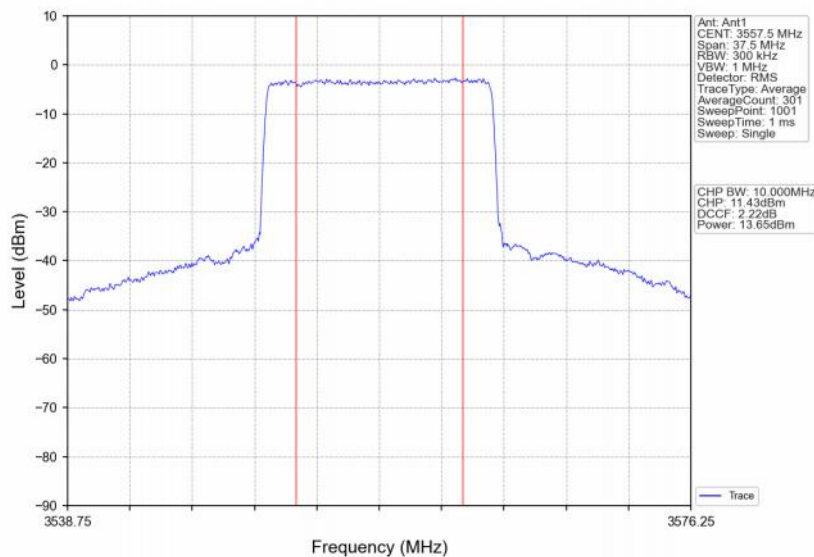
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_36_39_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV

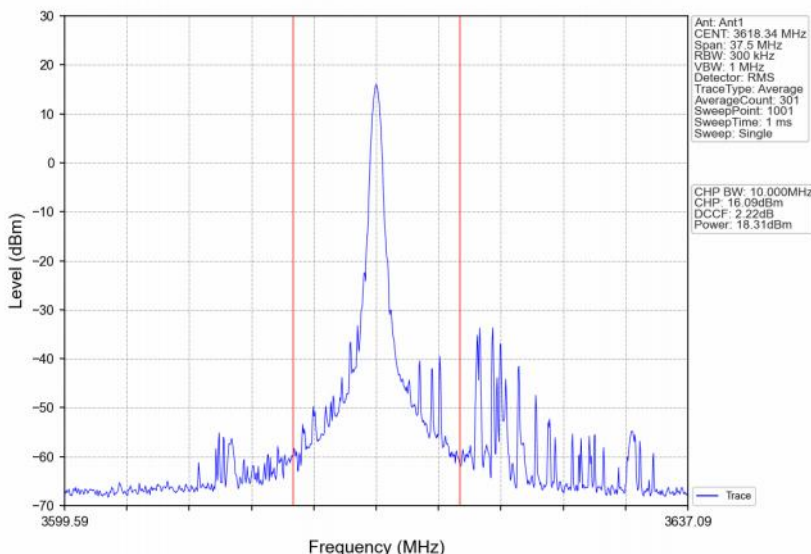


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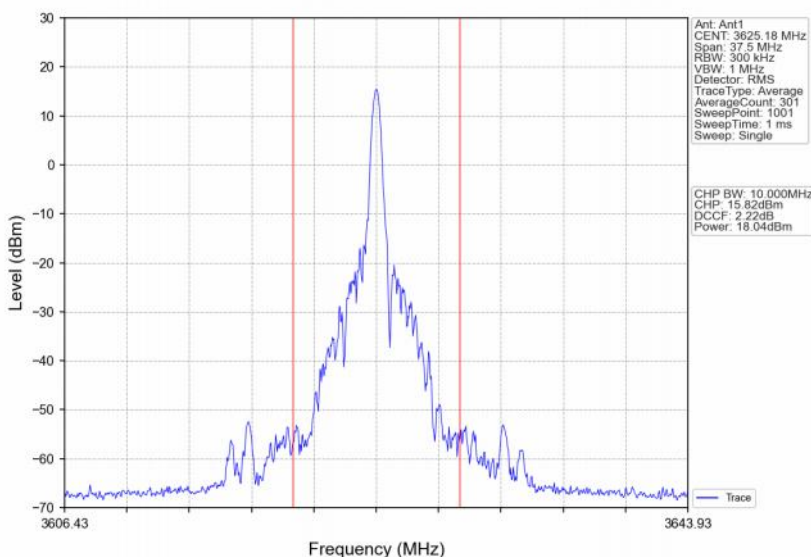
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Band48_15MHz_16QAM_MCH_3625MHz_RB_1_0_NTNV



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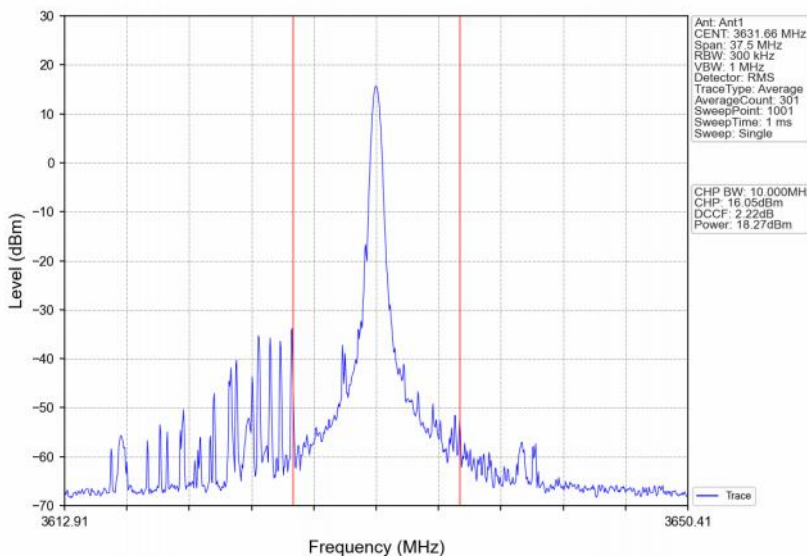


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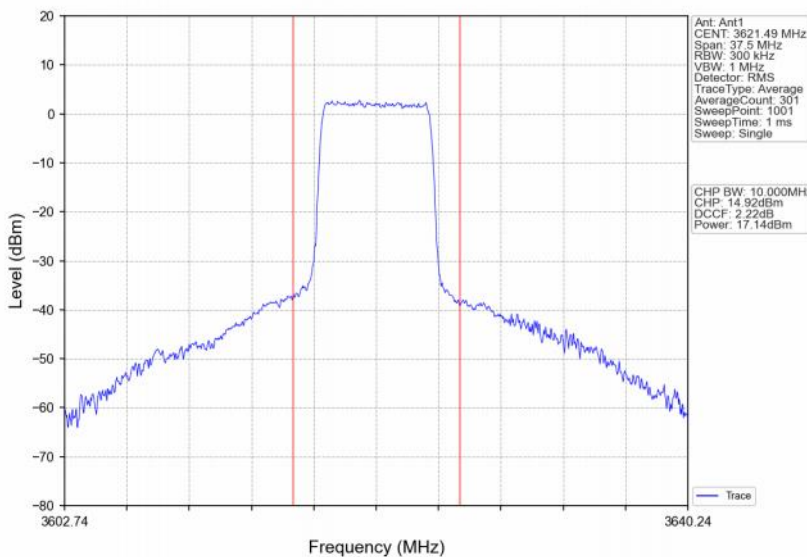
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Band48_15MHz_16QAM_MCH_3625MHz_RB_1_74_NTNV



Band48_15MHz_16QAM_MCH_3625MHz_RB_36_0_NTNV

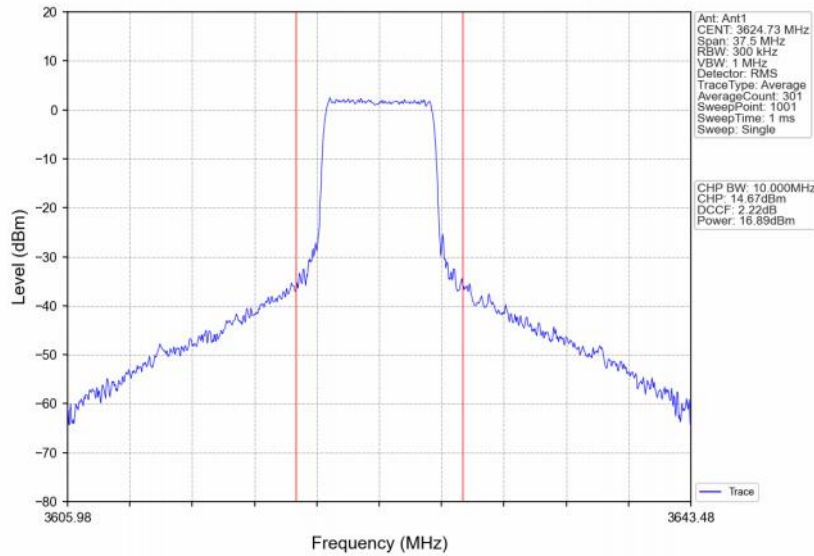


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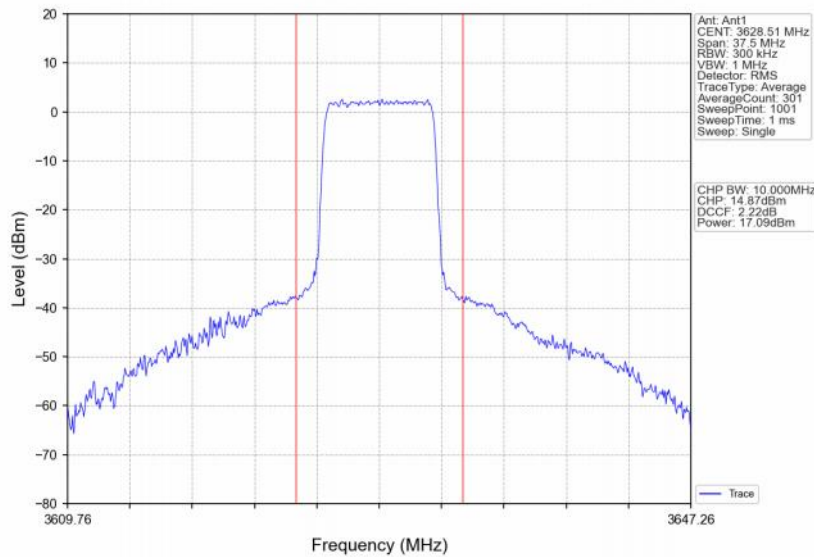
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Band48_15MHz_16QAM_MCH_3625MHz_RB_36_18_NTNV



Band48_15MHz_16QAM_MCH_3625MHz_RB_36_39_NTNV

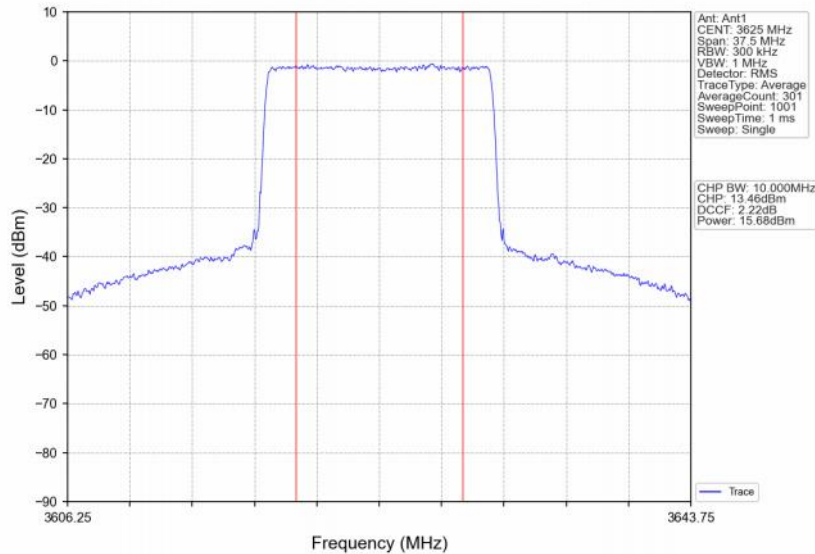


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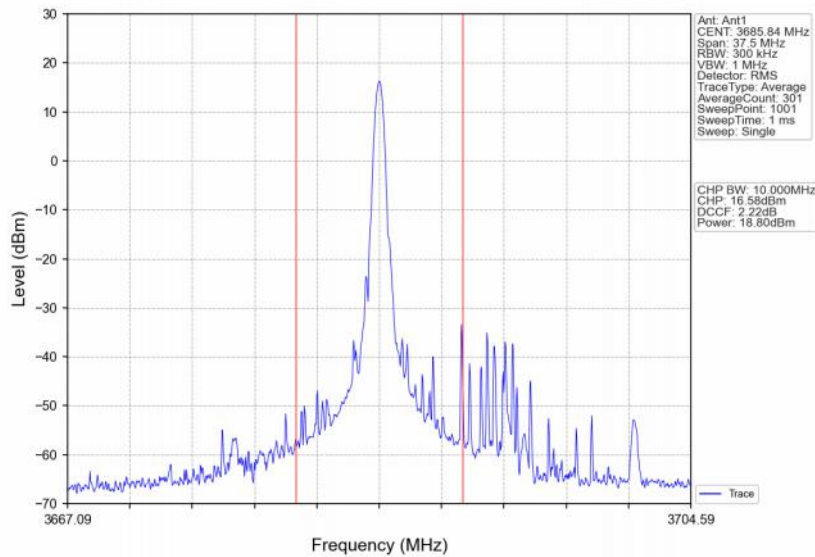
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Band48_15MHz_16QAM_MCH_3625MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_HCH_3692.5MHz_RB_1_0_NTNV

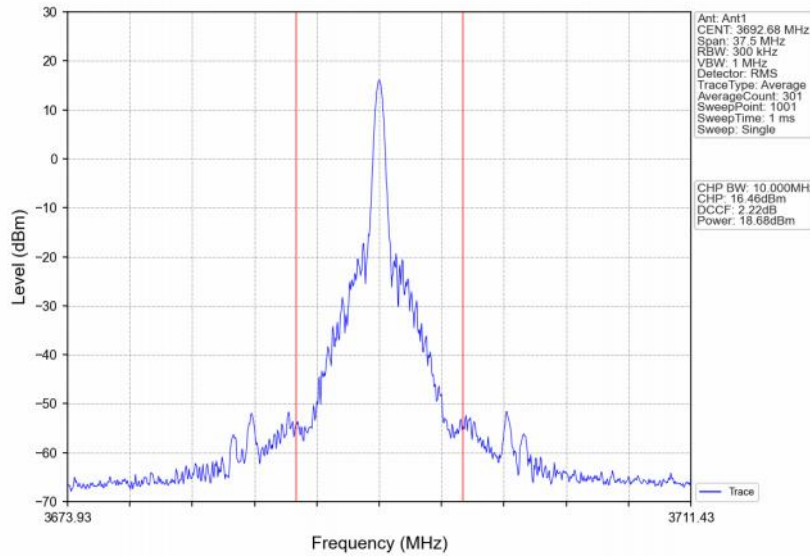


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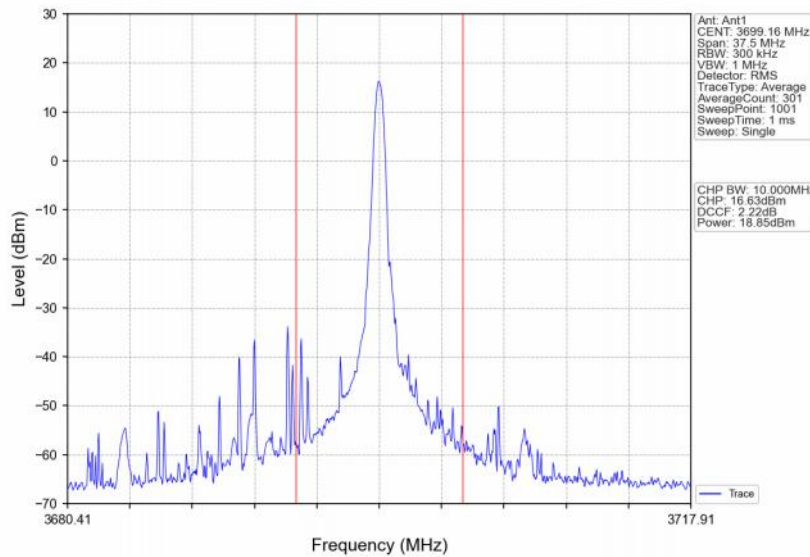
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Band48_15MHz_16QAM_HCH_3692.5MHz_RB_1_38_NTNV



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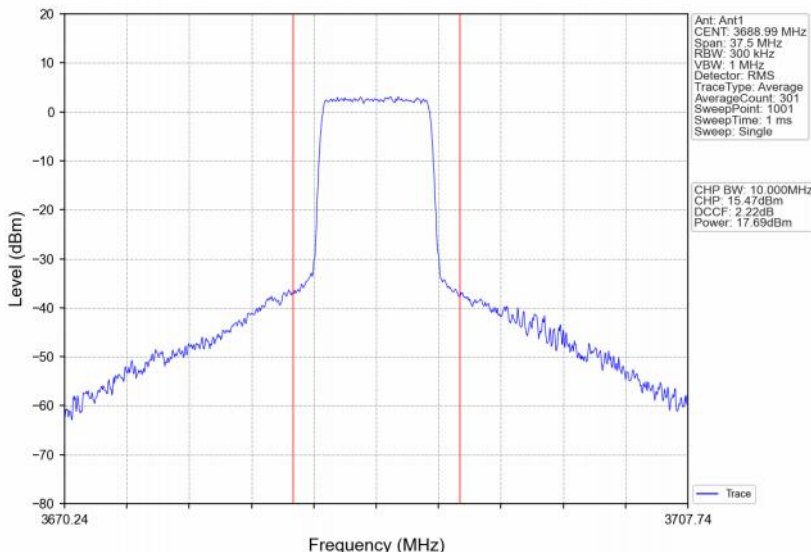


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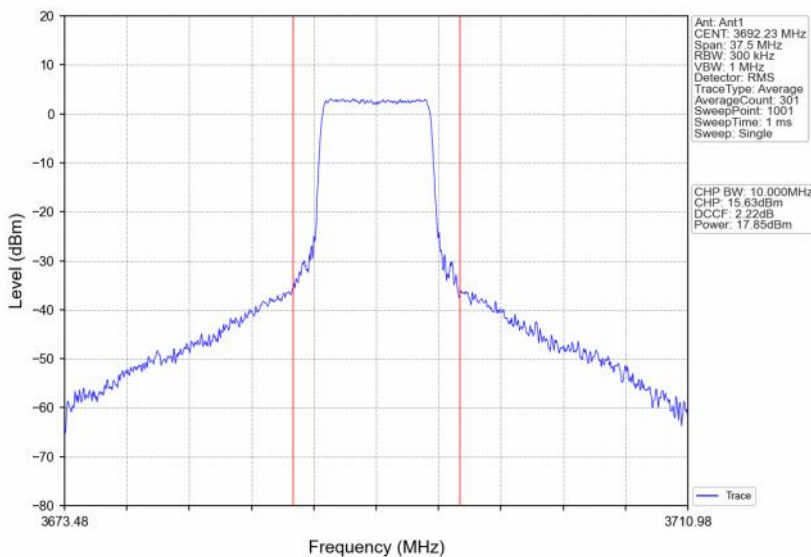
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Band48_15MHz_16QAM_HCH_3692.5MHz_RB_36_18_NTNV

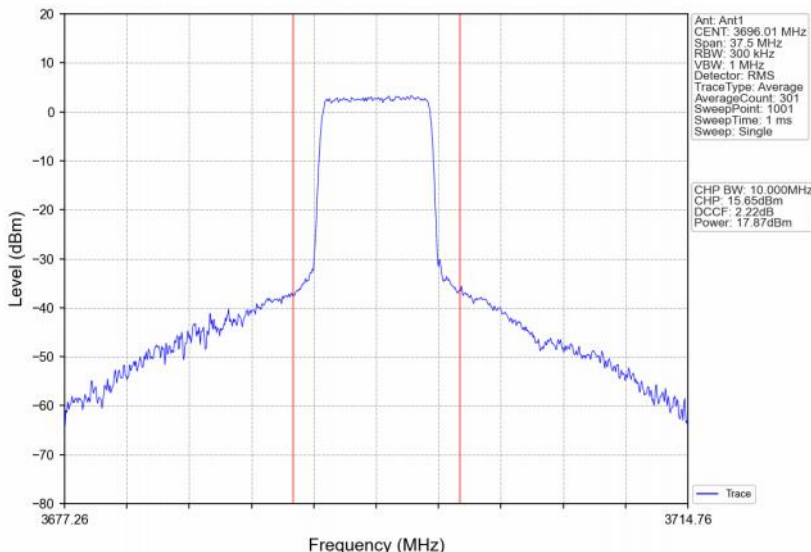


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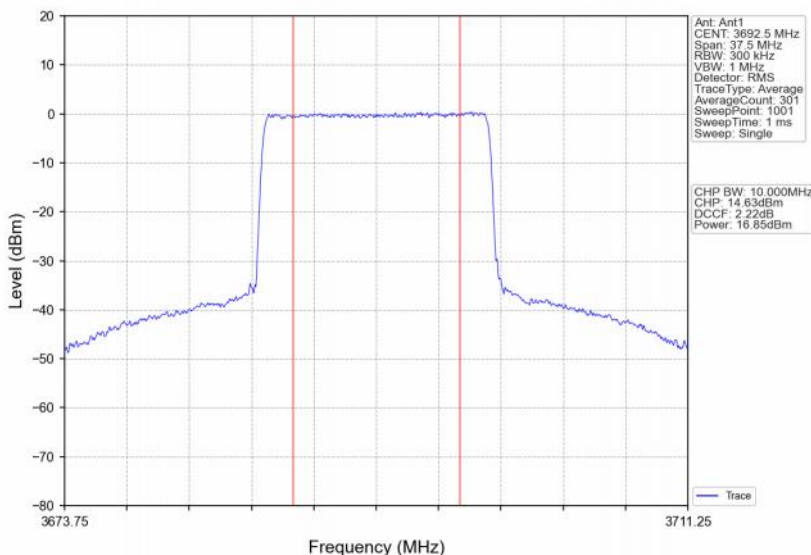
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Band48_15MHz_16QAM_HCH_3692.5MHz_RB_36_39_NTNV



Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV

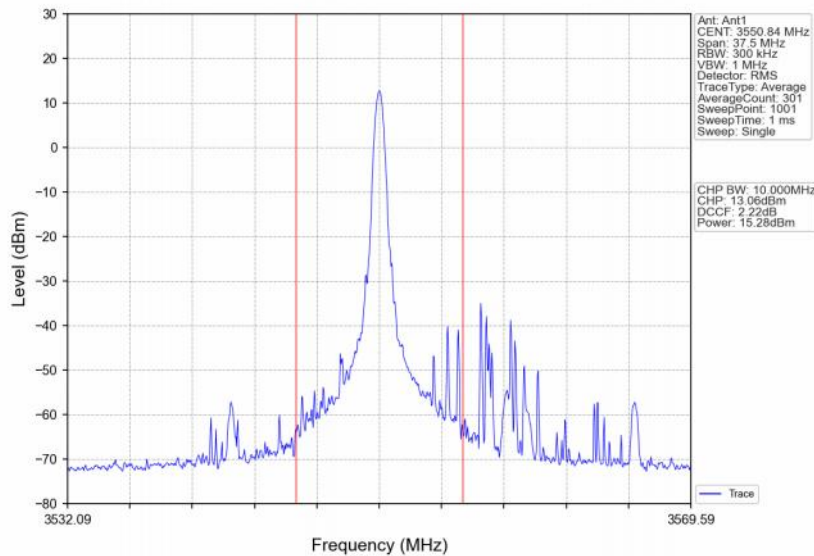


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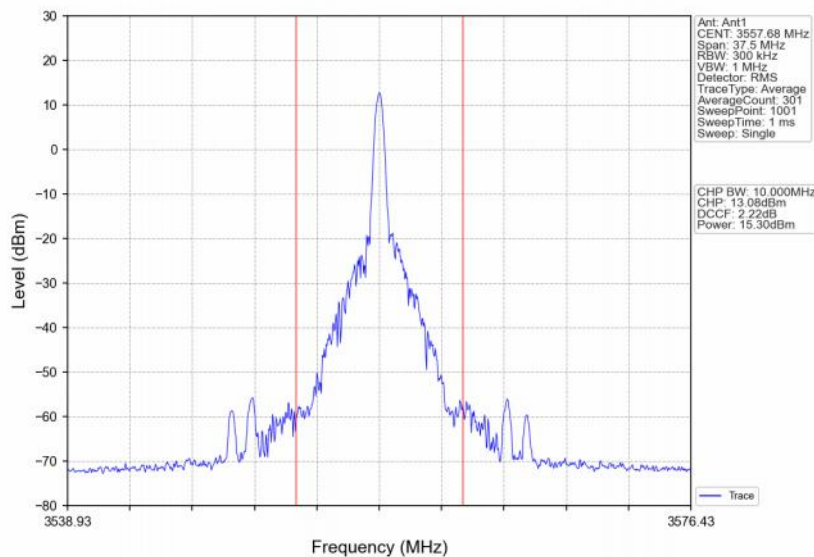
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Band48_15MHz_64QAM_LCH_3557.5MHz_RB_1_0_NTNV



Band48_15MHz_64QAM_LCH_3557.5MHz_RB_1_38_NTNV

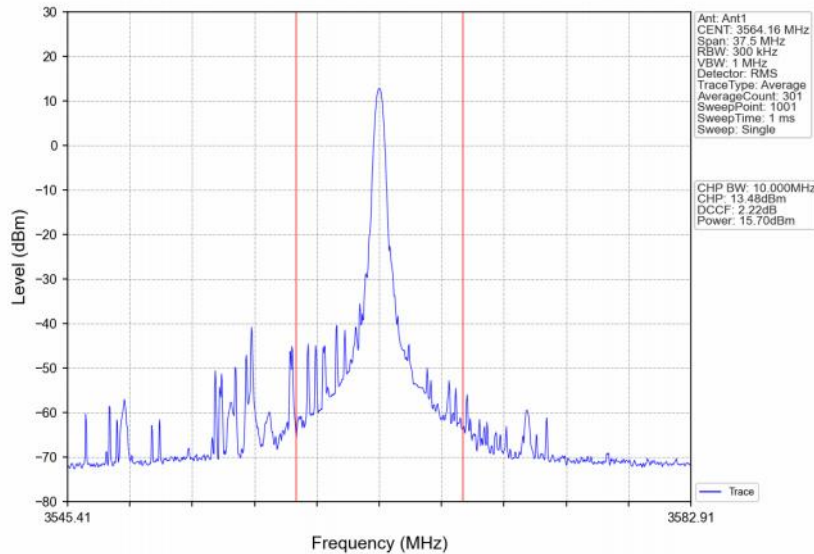


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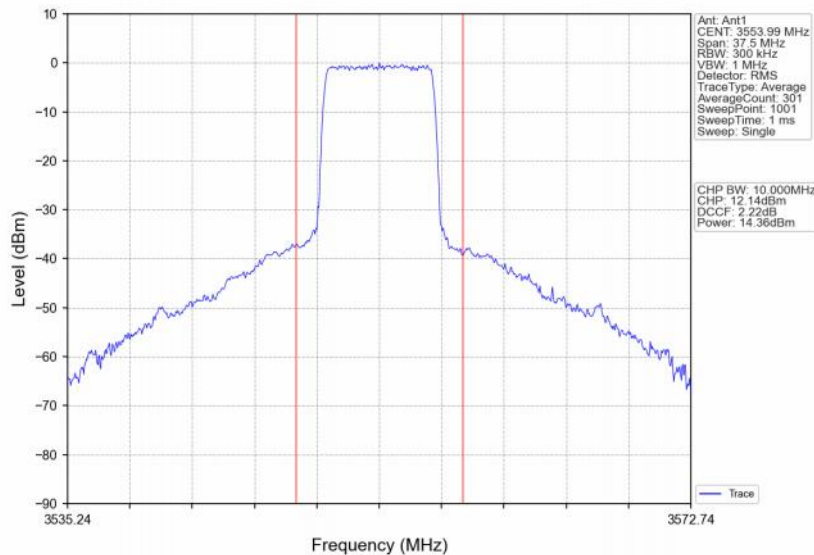
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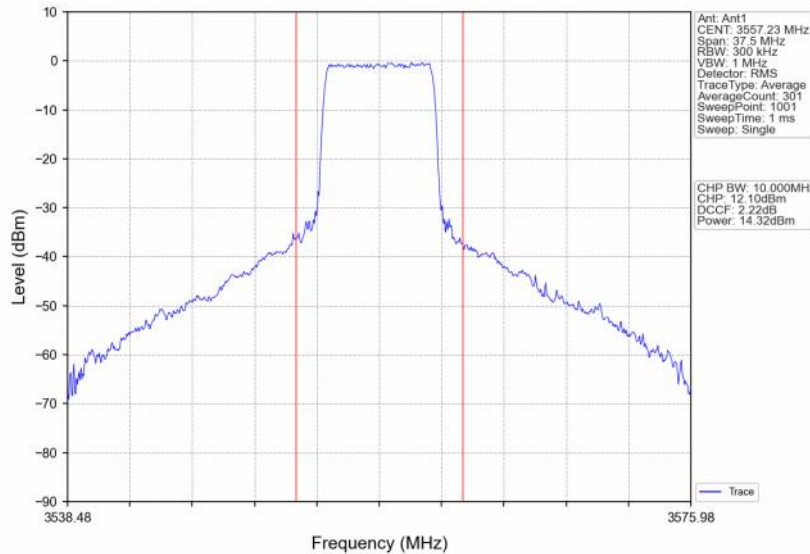


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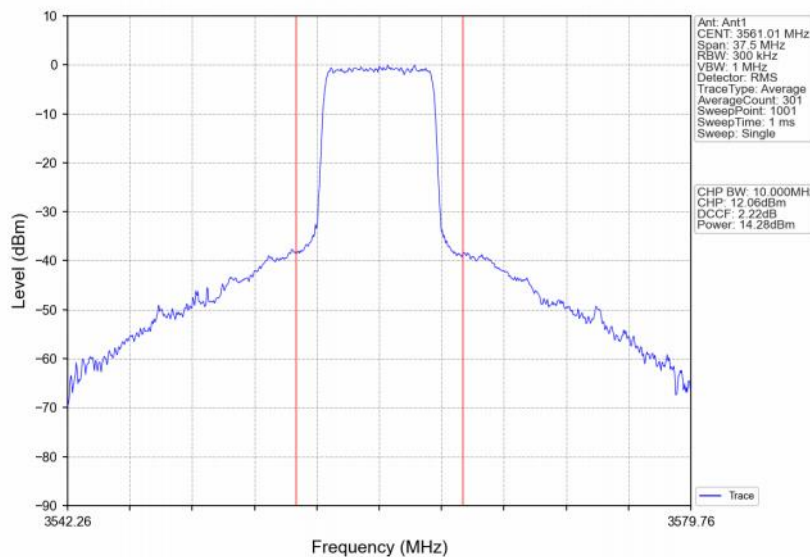
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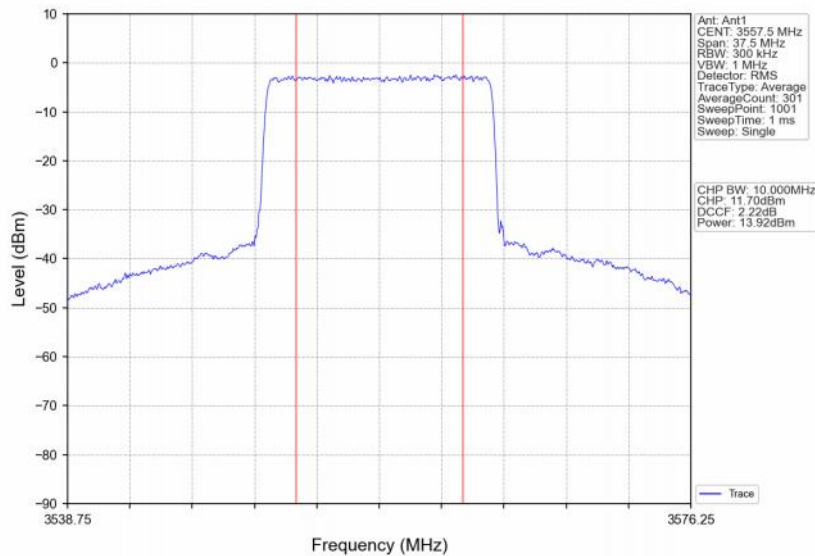


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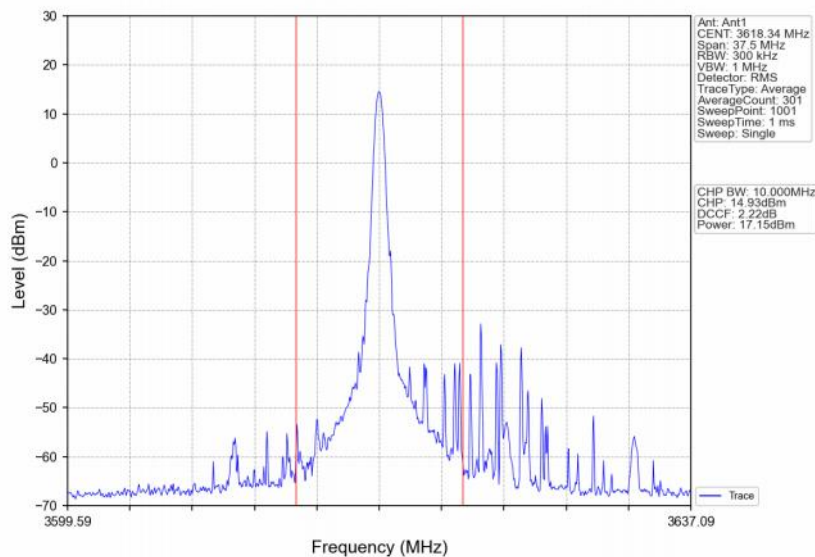
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Band48_15MHz_64QAM_LCH_3557.5MHz_RB_75_0_NTNV



Band48_15MHz_64QAM_MCH_3625MHz_RB_1_0_NTNV

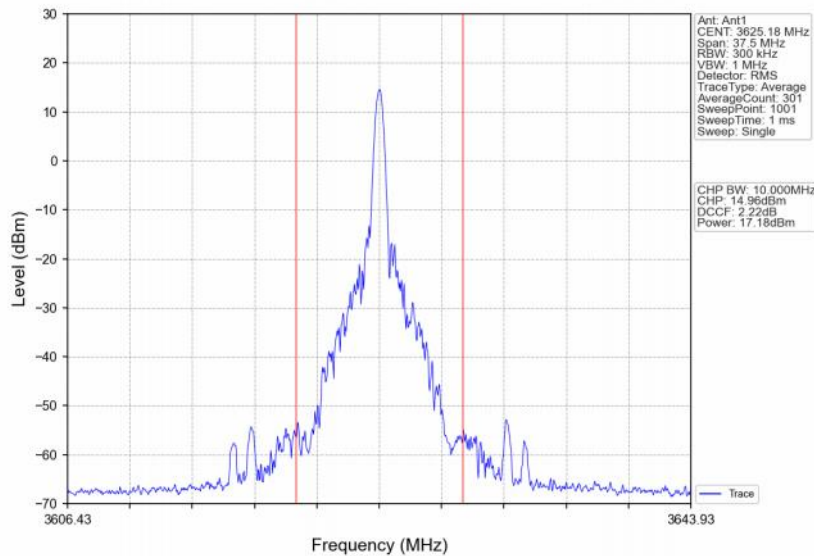


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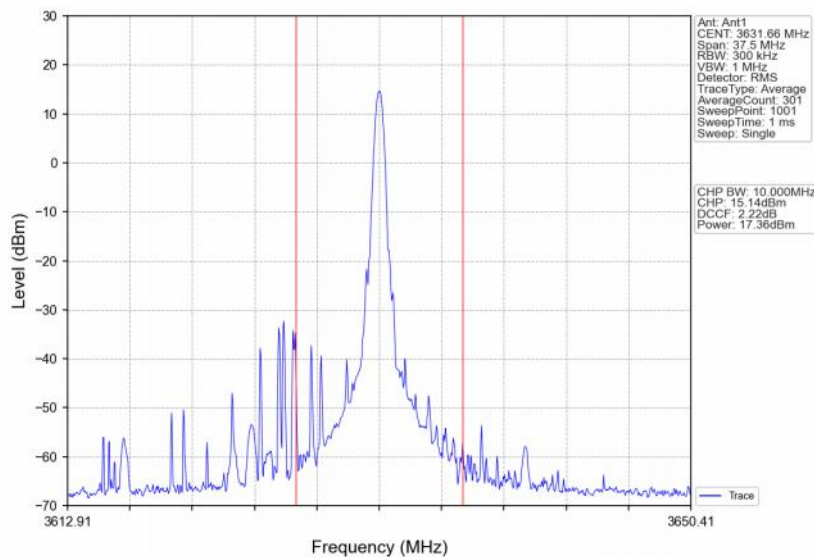
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Band48_15MHz_64QAM_MCH_3625MHz_RB_1_38_NTNV



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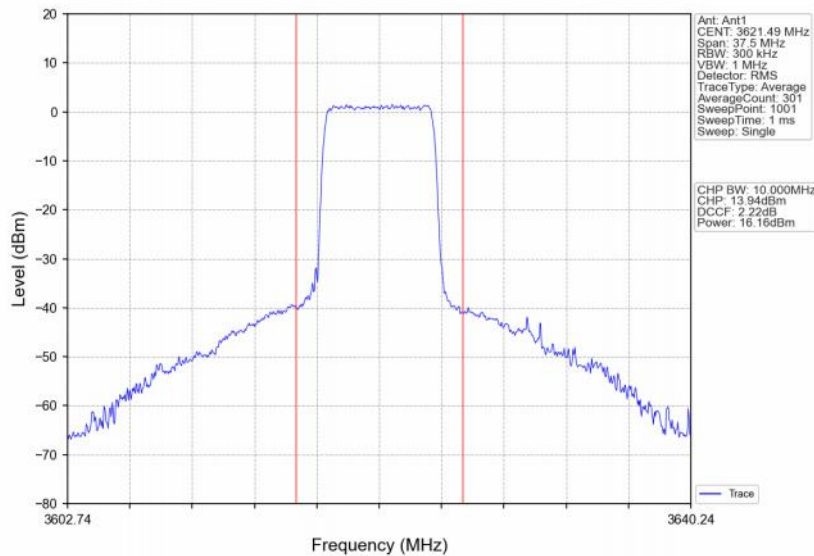


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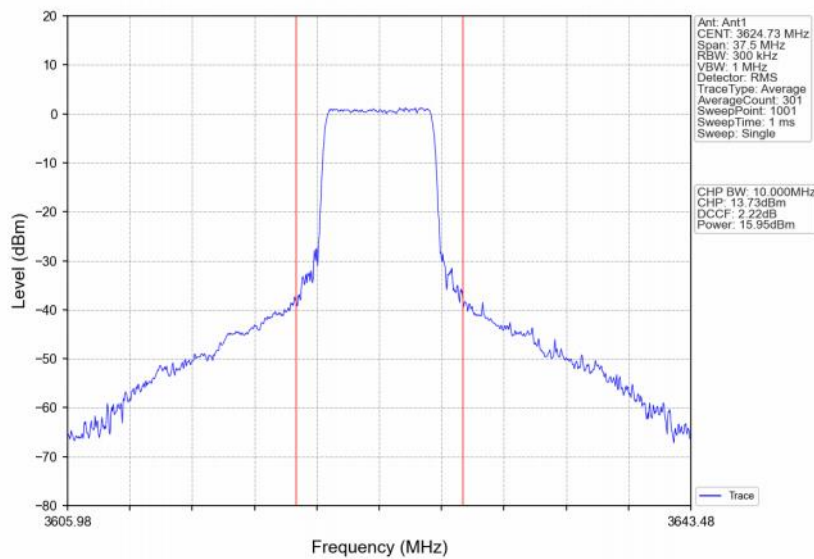
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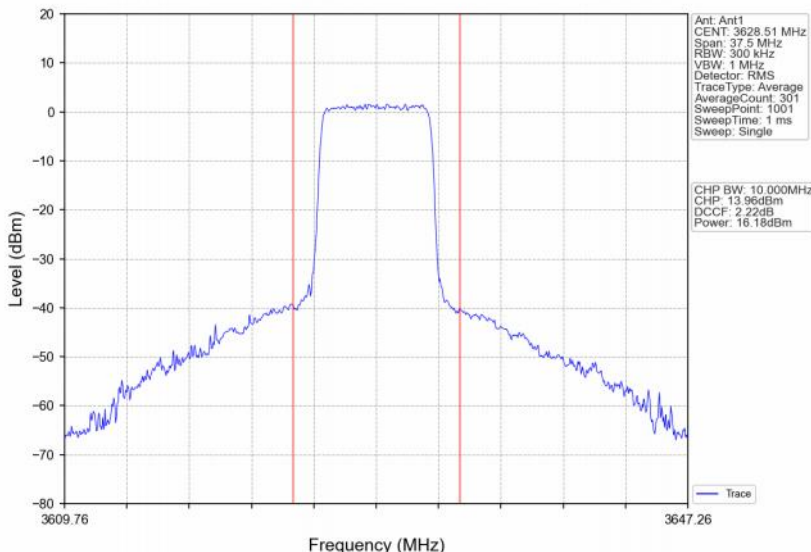


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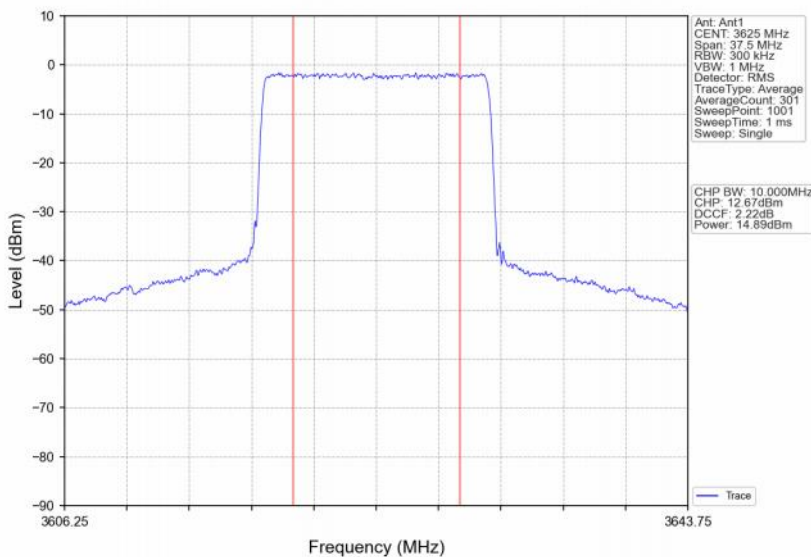
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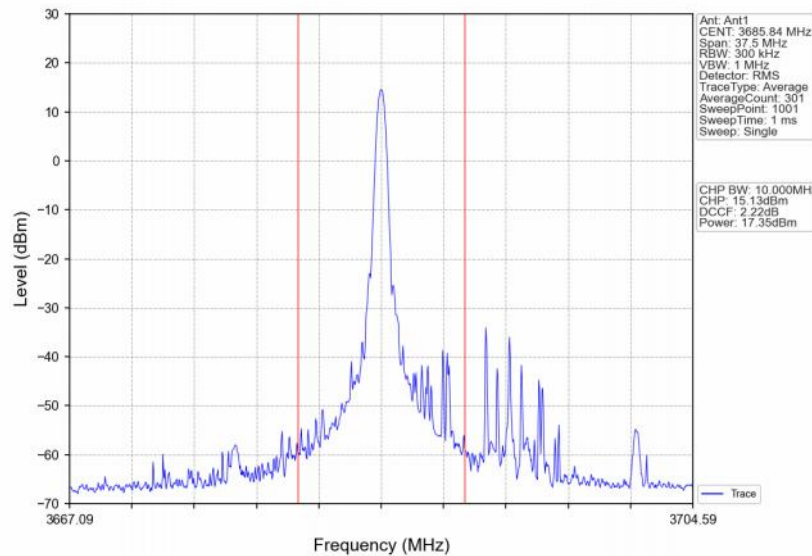


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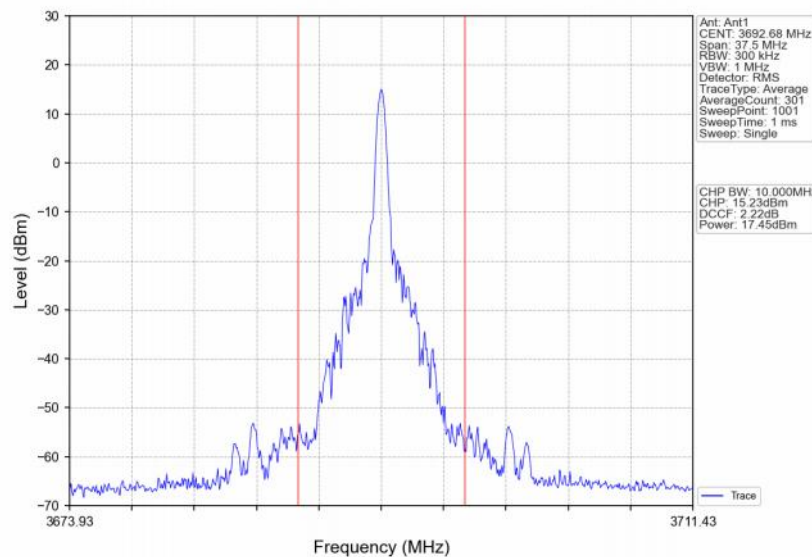
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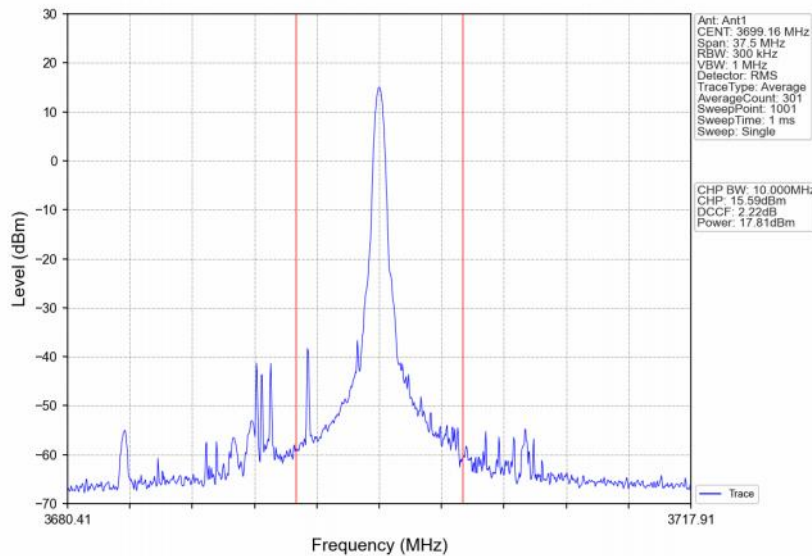


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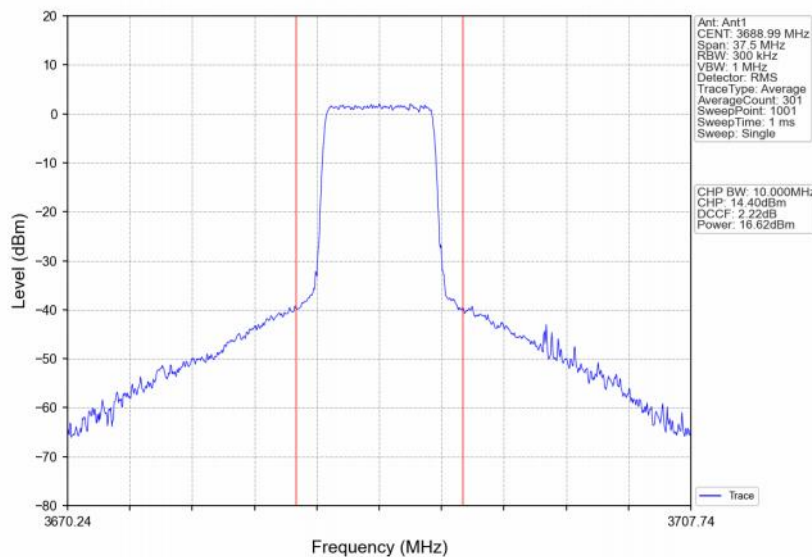
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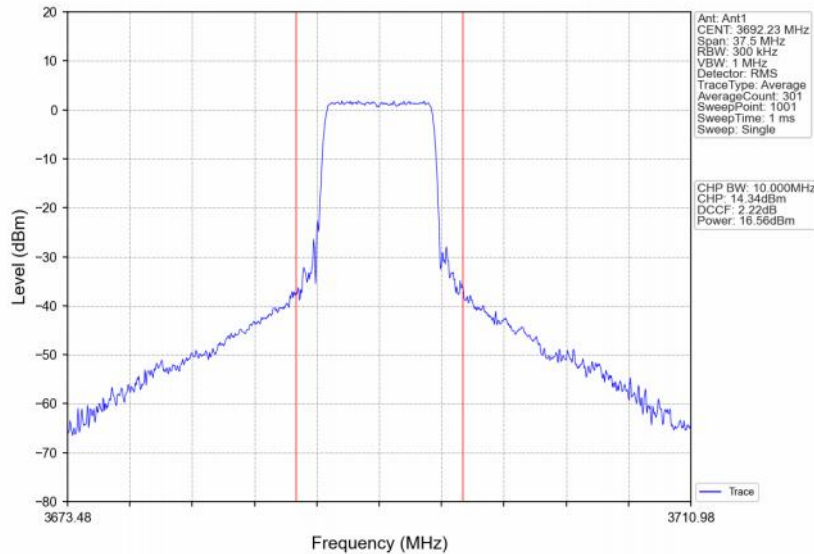


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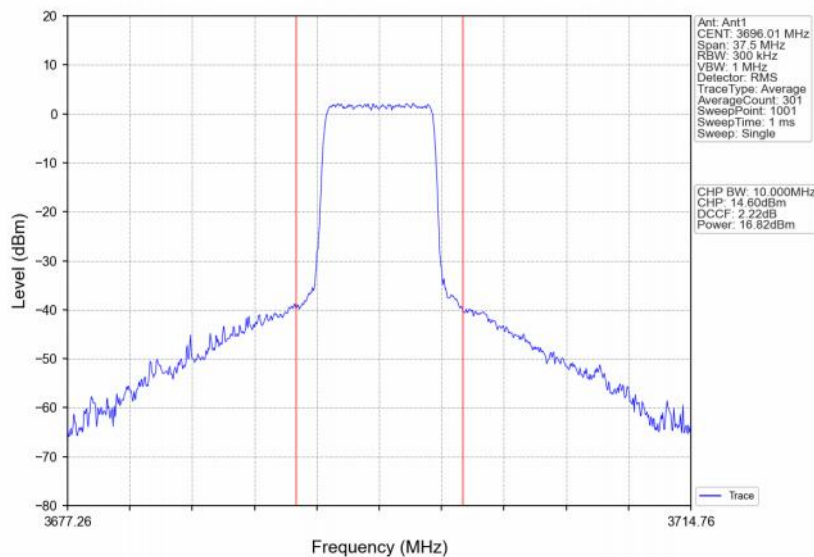
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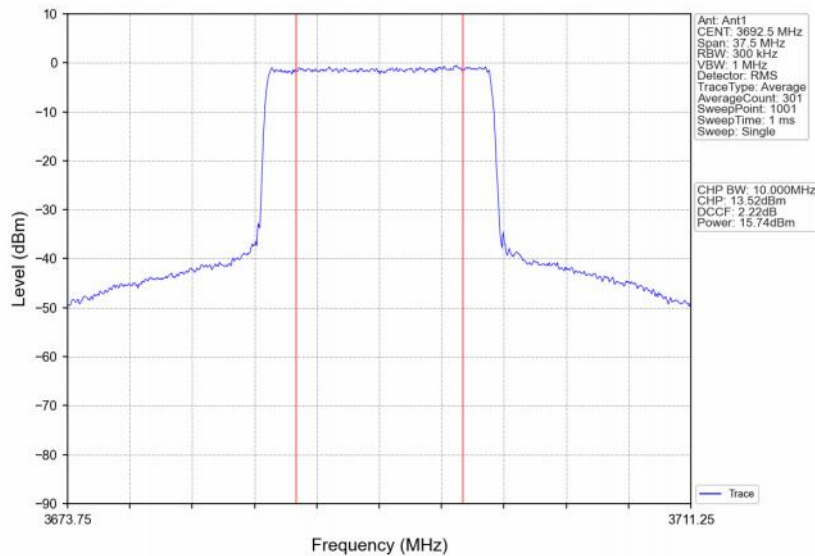


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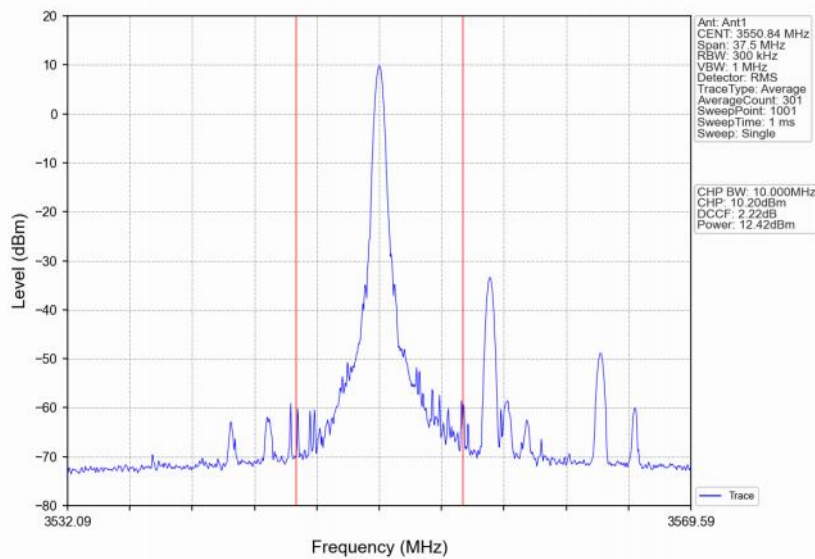
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Band48_15MHz_256QAM_LCH_3557.5MHz_RB_1_0_NTNV

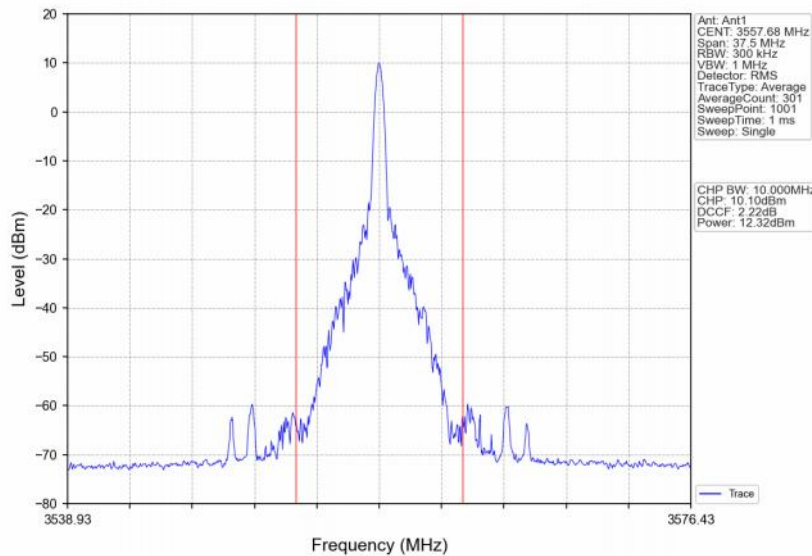


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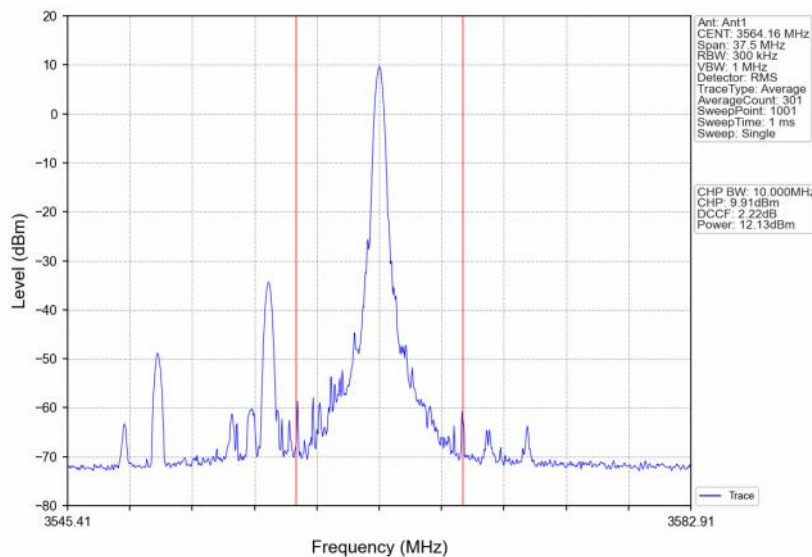
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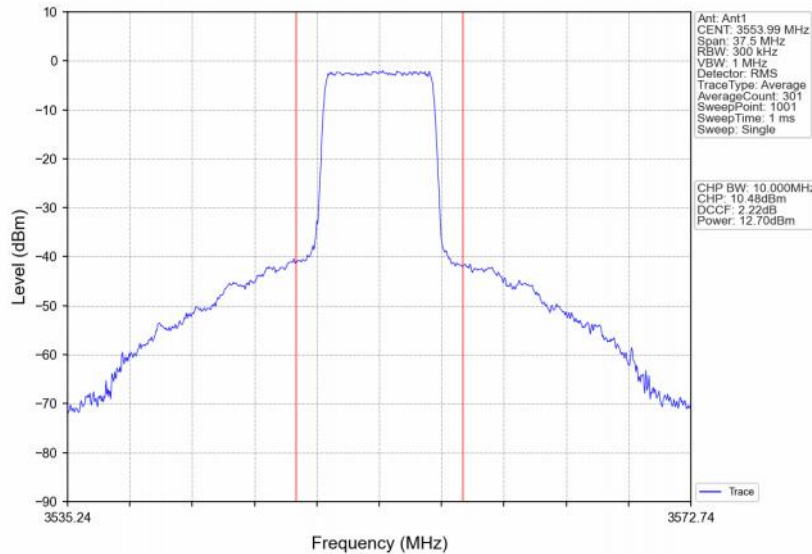


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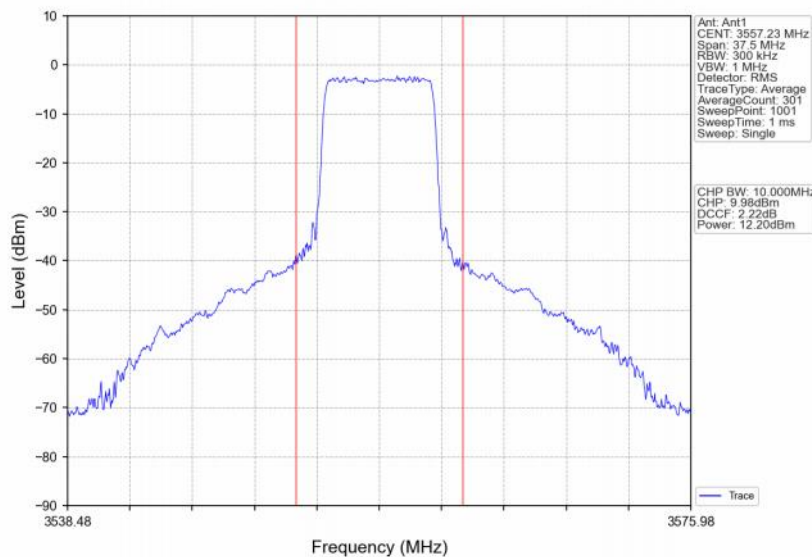
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Band48_15MHz_256QAM_LCH_3557.5MHz_RB_36_0_NTNV



Band48_15MHz_256QAM_LCH_3557.5MHz_RB_36_18_NTNV

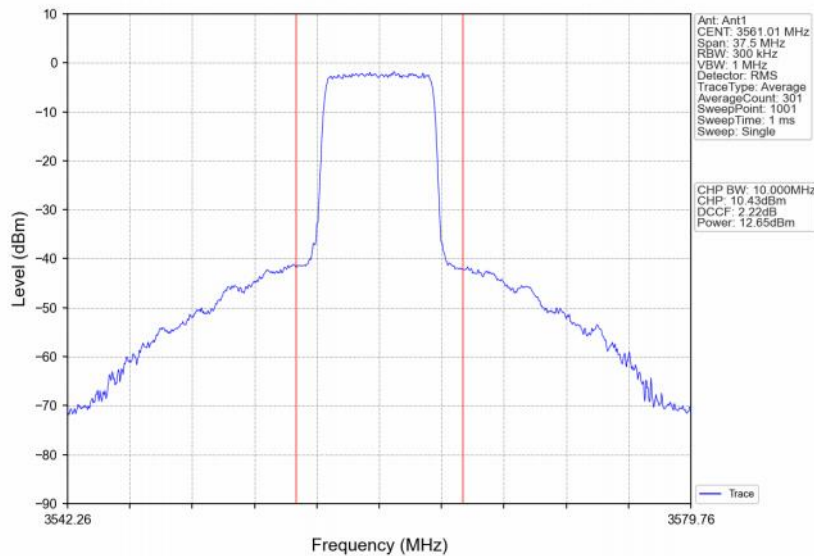


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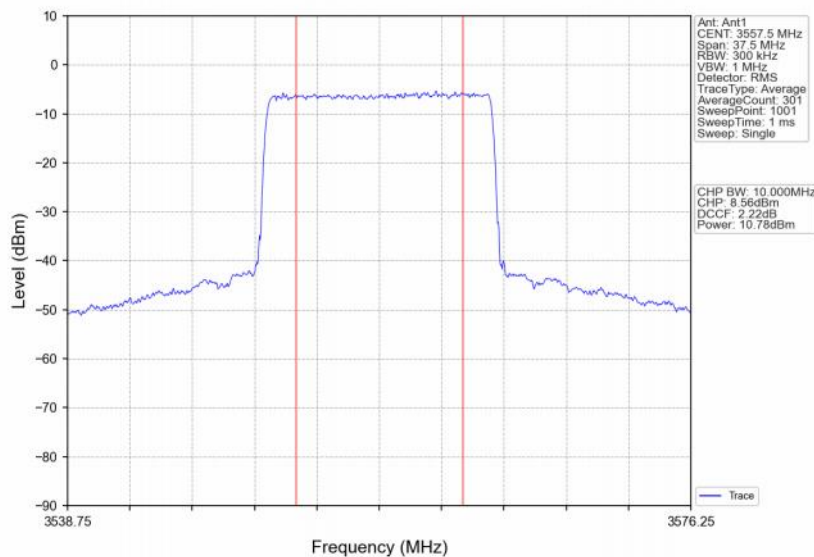
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Band48_15MHz_256QAM_LCH_3557.5MHz_RB_36_39_NTNV



Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV

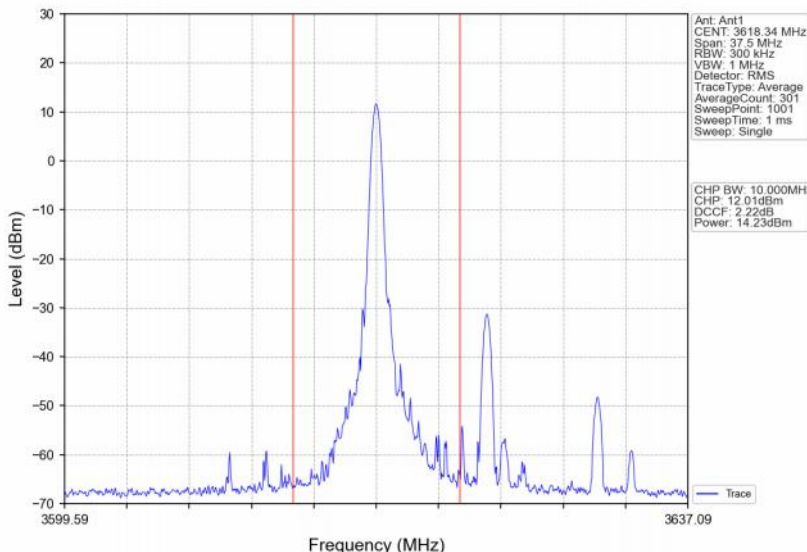


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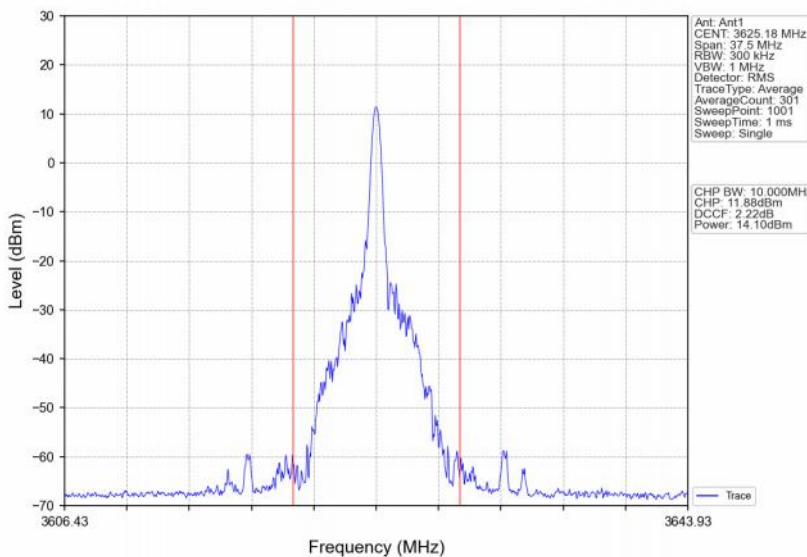
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Band48_15MHz_256QAM_MCH_3625MHz_RB_1_0_NTNV



Band48_15MHz_256QAM_MCH_3625MHz_RB_1_38_NTNV

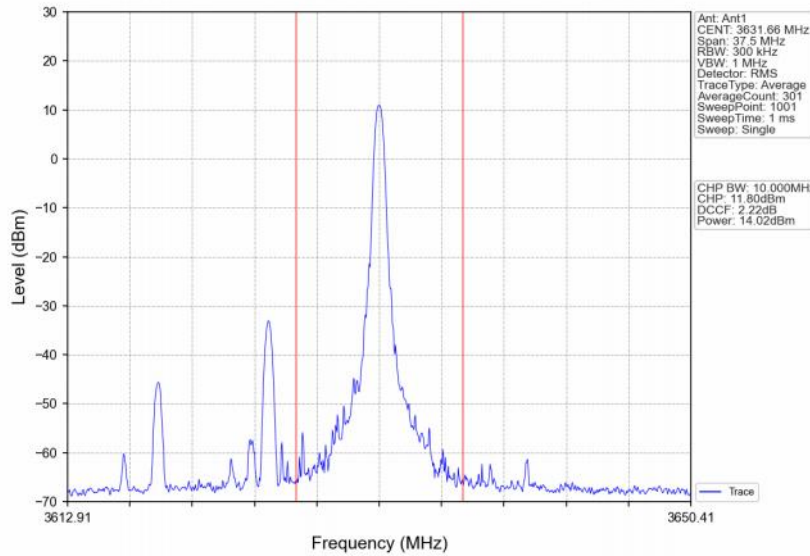


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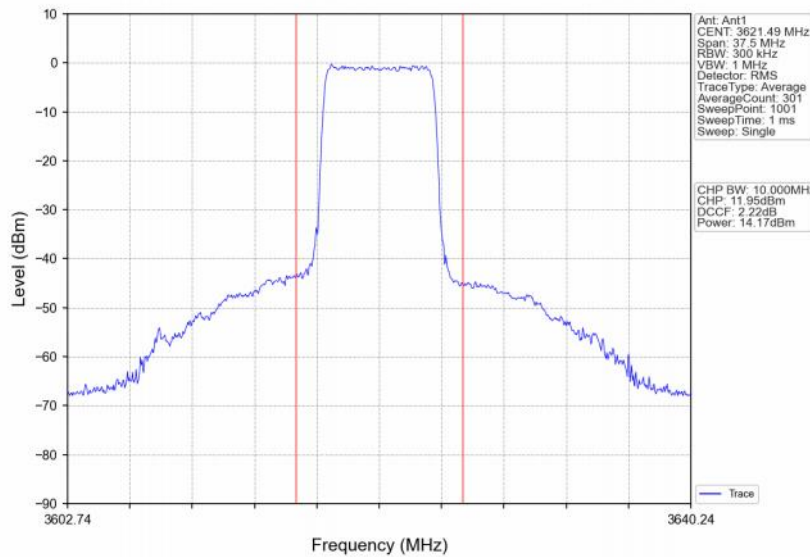
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Band48_15MHz_256QAM_MCH_3625MHz_RB_1_74_NTNV



Band48_15MHz_256QAM_MCH_3625MHz_RB_36_0_NTNV

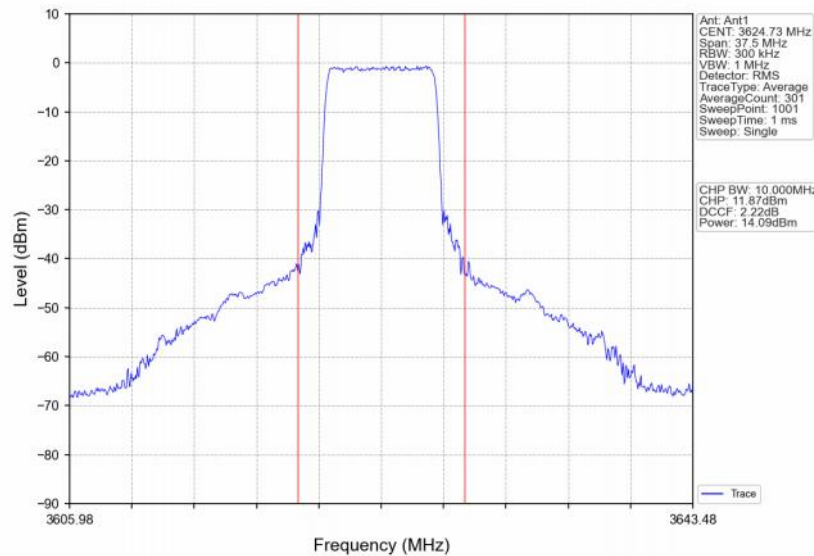


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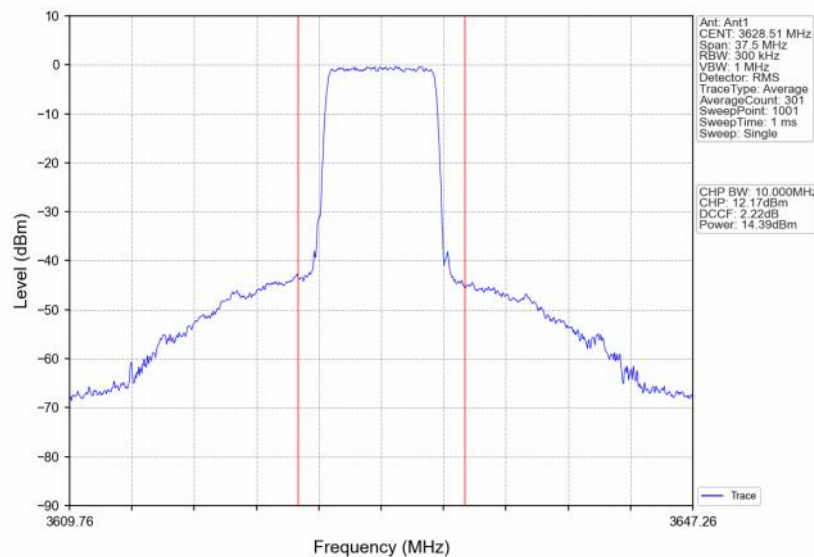
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Band48_15MHz_256QAM_MCH_3625MHz_RB_36_18_NTNV



Band48_15MHz_256QAM_MCH_3625MHz_RB_36_39_NTNV

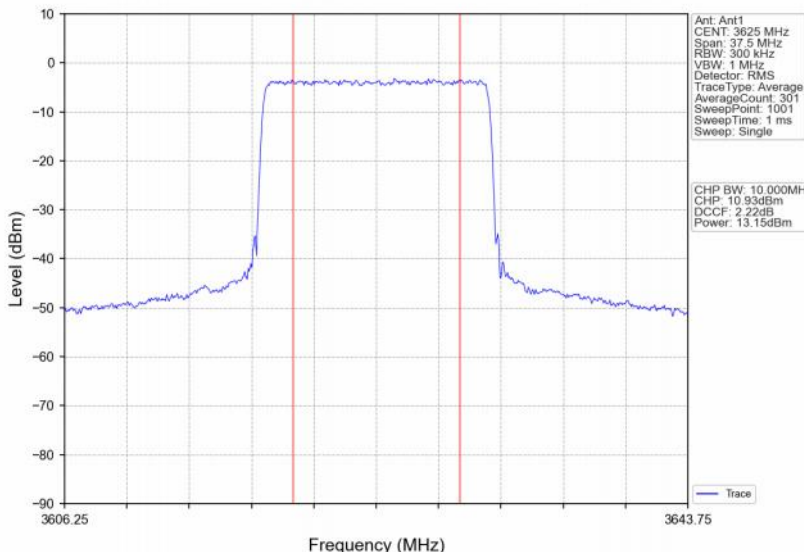


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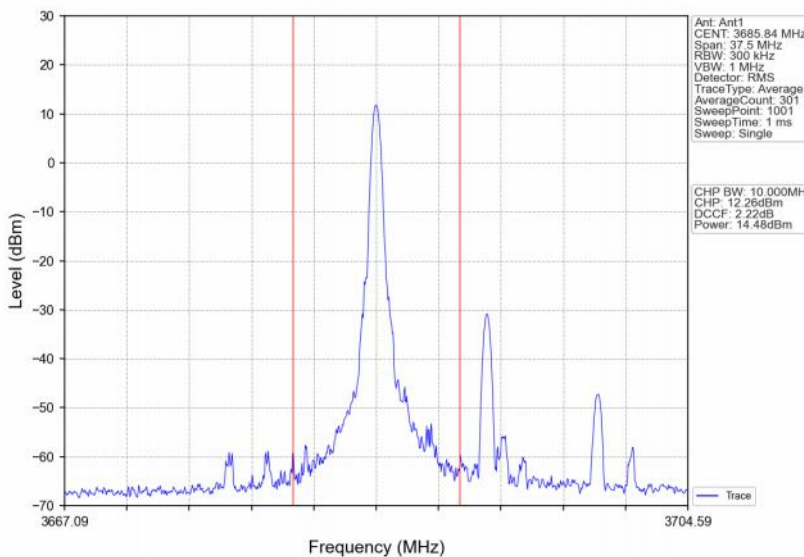
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Band48_15MHz_256QAM_MCH_3625MHz_RB_75_0_NTNV



Band48_15MHz_256QAM_HCH_3692.5MHz_RB_1_0_NTNV

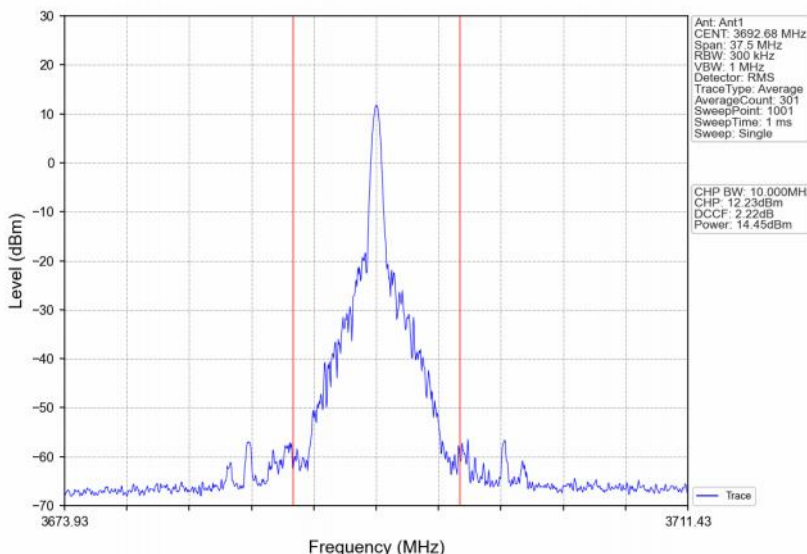


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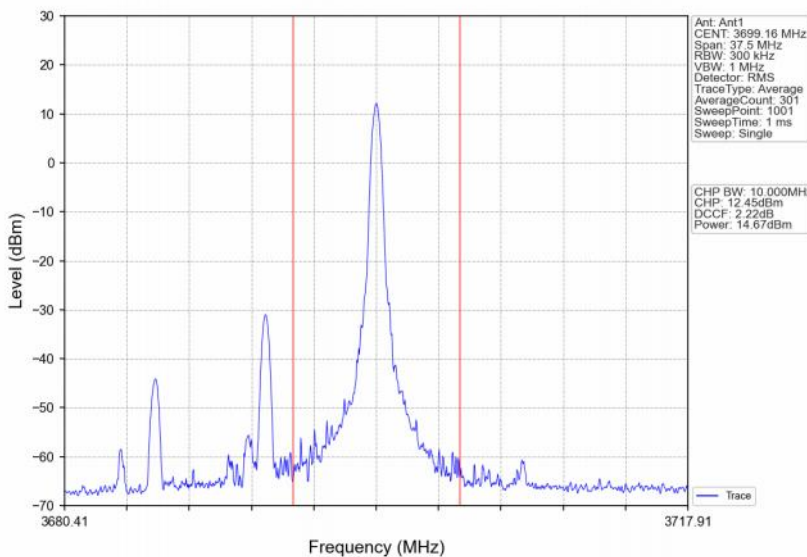
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Band48_15MHz_256QAM_HCH_3692.5MHz_RB_1_38_NTNV



Band48_15MHz_256QAM_HCH_3692.5MHz_RB_1_74_NTNV

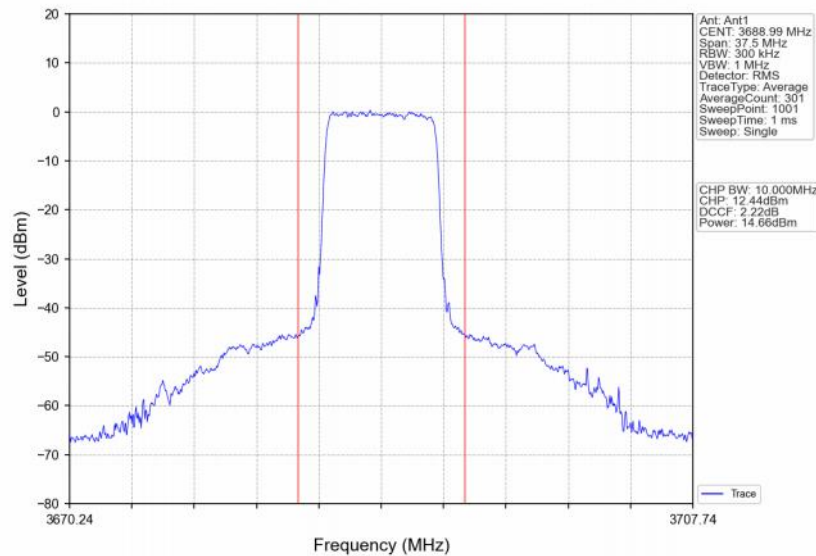


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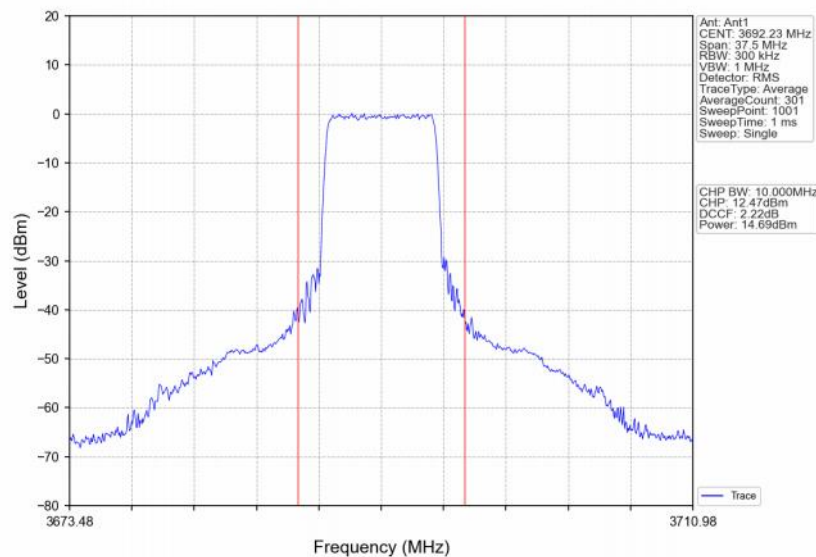
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Band48_15MHz_256QAM_HCH_3692.5MHz_RB_36_0_NTNV



Band48_15MHz_256QAM_HCH_3692.5MHz_RB_36_18_NTNV

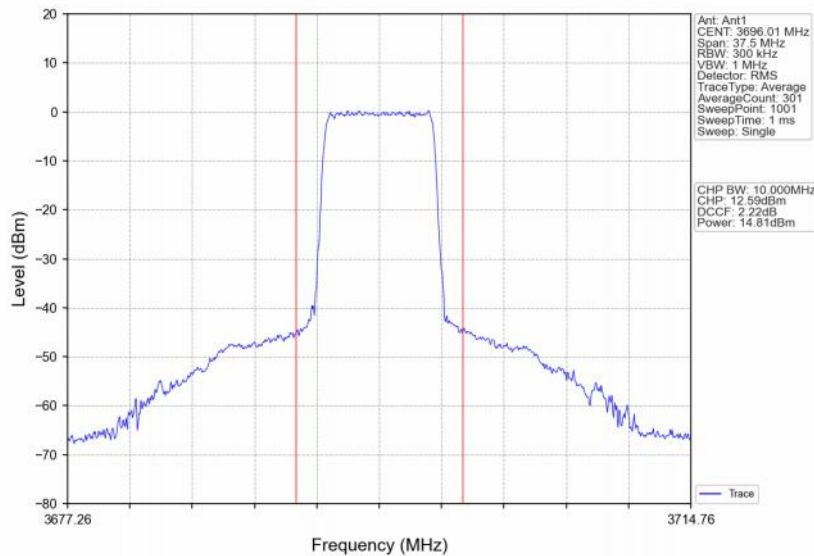


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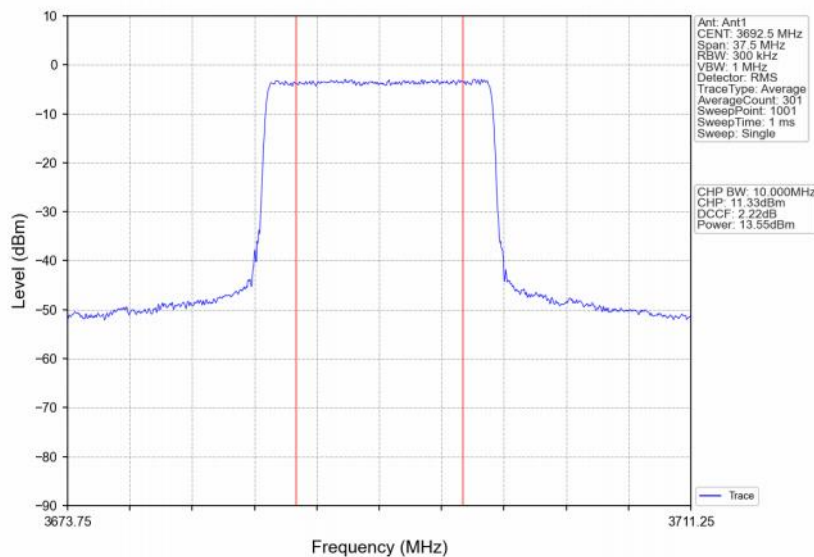
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Band48_15MHz_256QAM_HCH_3692.5MHz_RB_36_39_NTNV



Band48_15MHz_256QAM_HCH_3692.5MHz_RB_75_0_NTNV



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2.4 B48_20MHz_EIRP

2.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/10MHz)	Gain (dbi)	EIRP (dBm/10MHz)		Verdict		
		Size	Offset			Result	Limit			
QPSK	3560	1	0	17.24	3.10	20.34	<=23	Pass		
			50	17.38	3.10	20.48	<=23	Pass		
			99	17.32	3.10	20.42	<=23	Pass		
		50	0	16.21	3.10	19.31	<=23	Pass		
			25	16.18	3.10	19.28	<=23	Pass		
			50	16.38	3.10	19.48	<=23	Pass		
		100	0	13.97	3.10	17.07	<=23	Pass		
		3625	1	0	19.10	3.10	22.20	<=23	Pass	
				50	18.70	3.10	21.80	<=23	Pass	
	99			18.76	3.10	21.86	<=23	Pass		
	50		0	17.73	3.10	20.83	<=23	Pass		
			25	17.82	3.10	20.92	<=23	Pass		
			50	18.05	3.10	21.15	<=23	Pass		
	100		0	15.70	3.10	18.80	<=23	Pass		
	3690		1	0	19.43	3.10	22.53	<=23	Pass	
				50	19.45	3.10	22.55	<=23	Pass	
		99		19.42	3.10	22.52	<=23	Pass		
		50	0	18.32	3.10	21.42	<=23	Pass		
			25	18.44	3.10	21.54	<=23	Pass		
			50	18.65	3.10	21.75	<=23	Pass		
		100	0	16.22	3.10	19.32	<=23	Pass		
		16QAM	3560	1	0	16.24	3.10	19.34	<=23	Pass
					50	16.32	3.10	19.42	<=23	Pass
	99				16.33	3.10	19.43	<=23	Pass	
50	0			15.13	3.10	18.23	<=23	Pass		
	25			15.46	3.10	18.56	<=23	Pass		
	50			15.57	3.10	18.67	<=23	Pass		
100	0			13.38	3.10	16.48	<=23	Pass		
3625	1			0	17.72	3.10	20.82	<=23	Pass	
				50	17.89	3.10	20.99	<=23	Pass	
			99	17.96	3.10	21.06	<=23	Pass		
	50		0	17.18	3.10	20.28	<=23	Pass		
			25	16.80	3.10	19.90	<=23	Pass		
			50	16.93	3.10	20.03	<=23	Pass		
	100		0	14.87	3.10	17.97	<=23	Pass		
	3690		1	0	18.44	3.10	21.54	<=23	Pass	
				50	18.40	3.10	21.50	<=23	Pass	
99				18.58	3.10	21.68	<=23	Pass		
50			0	17.28	3.10	20.38	<=23	Pass		
			25	17.38	3.10	20.48	<=23	Pass		
			50	17.62	3.10	20.72	<=23	Pass		
100			0	15.20	3.10	18.30	<=23	Pass		
64QAM			3560	1	0	15.46	3.10	18.56	<=23	Pass
					50	15.32	3.10	18.42	<=23	Pass
	99				15.38	3.10	18.48	<=23	Pass	
	50	0		14.26	3.10	17.36	<=23	Pass		



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256QAM	3625	100	25	14.41	3.10	17.51	<=23	Pass	
			50	14.55	3.10	17.65	<=23	Pass	
			0	12.29	3.10	15.39	<=23	Pass	
		50	1	0	16.99	3.10	20.09	<=23	Pass
				50	16.62	3.10	19.72	<=23	Pass
				99	16.65	3.10	19.75	<=23	Pass
			0	16.12	3.10	19.22	<=23	Pass	
			25	15.63	3.10	18.73	<=23	Pass	
			50	15.86	3.10	18.96	<=23	Pass	
	100	0	13.87	3.10	16.97	<=23	Pass		
		0	17.55	3.10	20.65	<=23	Pass		
		50	17.49	3.10	20.59	<=23	Pass		
	3690	1	99	17.82	3.10	20.92	<=23	Pass	
			0	16.38	3.10	19.48	<=23	Pass	
			25	16.23	3.10	19.33	<=23	Pass	
		50	50	16.47	3.10	19.57	<=23	Pass	
			0	14.24	3.10	17.34	<=23	Pass	
			0	12.29	3.10	15.39	<=23	Pass	
		3560	1	50	12.30	3.10	15.40	<=23	Pass
				99	12.52	3.10	15.62	<=23	Pass
				0	12.43	3.10	15.53	<=23	Pass
	50		25	12.40	3.10	15.50	<=23	Pass	
			50	12.53	3.10	15.63	<=23	Pass	
			0	10.17	3.10	13.27	<=23	Pass	
3625	1		0	13.69	3.10	16.79	<=23	Pass	
			50	13.91	3.10	17.01	<=23	Pass	
			99	14.36	3.10	17.46	<=23	Pass	
	50	0	14.05	3.10	17.15	<=23	Pass		
		25	14.10	3.10	17.20	<=23	Pass		
		50	13.88	3.10	16.98	<=23	Pass		
	3690	1	0	12.02	3.10	15.12	<=23	Pass	
			0	14.24	3.10	17.34	<=23	Pass	
			50	14.59	3.10	17.69	<=23	Pass	
50		99	14.64	3.10	17.74	<=23	Pass		
		0	14.31	3.10	17.41	<=23	Pass		
		25	14.56	3.10	17.66	<=23	Pass		
100		50	14.40	3.10	17.50	<=23	Pass		
		0	12.28	3.10	15.38	<=23	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 48 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	3560	1	0	17.33	3.10	20.43	<=23	Pass		
			50	17.41	3.10	20.51	<=23	Pass		
			99	17.25	3.10	20.35	<=23	Pass		
		50	0	16.31	3.10	19.41	<=23	Pass		
			25	16.25	3.10	19.35	<=23	Pass		
			50	16.21	3.10	19.31	<=23	Pass		
		100	0	17.56	3.10	20.66	<=23	Pass		
		3625	1	0	18.84	3.10	21.94	<=23	Pass	
				50	18.36	3.10	21.46	<=23	Pass	
	99			18.46	3.10	21.56	<=23	Pass		
	50		0	17.26	3.10	20.36	<=23	Pass		
			25	17.62	3.10	20.72	<=23	Pass		
			50	17.94	3.10	21.04	<=23	Pass		
	100		0	18.55	3.10	21.65	<=23	Pass		
	3690		1	0	19.31	3.10	22.41	<=23	Pass	
				50	19.41	3.10	22.51	<=23	Pass	
		99		19.39	3.10	22.49	<=23	Pass		
		50	0	18.21	3.10	21.31	<=23	Pass		
			25	18.34	3.10	21.44	<=23	Pass		
			50	18.56	3.10	21.66	<=23	Pass		
		100	0	18.87	3.10	21.97	<=23	Pass		
		16QAM	3560	1	0	16.14	3.10	19.24	<=23	Pass
					50	16.32	3.10	19.42	<=23	Pass
	99				16.15	3.10	19.25	<=23	Pass	
50	0			15.03	3.10	18.13	<=23	Pass		
	25			15.31	3.10	18.41	<=23	Pass		
	50			15.39	3.10	18.49	<=23	Pass		
100	0			17.03	3.10	20.13	<=23	Pass		
3625	1			0	17.52	3.10	20.62	<=23	Pass	
				50	16.81	3.10	19.91	<=23	Pass	
			99	17.51	3.10	20.61	<=23	Pass		
	50		0	17.06	3.10	20.16	<=23	Pass		
			25	16.94	3.10	20.04	<=23	Pass		
			50	16.82	3.10	19.92	<=23	Pass		
	100		0	17.56	3.10	20.66	<=23	Pass		
	3690		1	0	18.34	3.10	21.44	<=23	Pass	
				50	18.31	3.10	21.41	<=23	Pass	
99				18.49	3.10	21.59	<=23	Pass		
50			0	17.36	3.10	20.46	<=23	Pass		
			25	17.69	3.10	20.79	<=23	Pass		
			50	17.52	3.10	20.62	<=23	Pass		
100			0	17.85	3.10	20.95	<=23	Pass		
64QAM			3560	1	0	15.63	3.10	18.73	<=23	Pass
					50	15.31	3.10	18.41	<=23	Pass
	99				15.34	3.10	18.44	<=23	Pass	
	50	0		14.26	3.10	17.36	<=23	Pass		
		25		14.64	3.10	17.74	<=23	Pass		
		50		14.27	3.10	17.37	<=23	Pass		
	100	0		15.02	3.10	18.12	<=23	Pass		
	3625	1		0	16.25	3.10	19.35	<=23	Pass	
				50	15.62	3.10	18.72	<=23	Pass	



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		50	99	16.49	3.10	19.59	<=23	Pass	
			0	16.02	3.10	19.12	<=23	Pass	
			25	15.84	3.10	18.94	<=23	Pass	
		100	50	15.64	3.10	18.74	<=23	Pass	
			0	16.56	3.10	19.66	<=23	Pass	
			50	17.25	3.10	20.35	<=23	Pass	
	3690	1	0	17.31	3.10	20.41	<=23	Pass	
			99	17.64	3.10	20.74	<=23	Pass	
			0	16.45	3.10	19.55	<=23	Pass	
		50	25	16.14	3.10	19.24	<=23	Pass	
			50	16.41	3.10	19.51	<=23	Pass	
			0	17.03	3.10	20.13	<=23	Pass	
	256QAM	3560	1	0	12.36	3.10	15.46	<=23	Pass
				50	12.64	3.10	15.74	<=23	Pass
				99	12.67	3.10	15.77	<=23	Pass
			50	0	12.39	3.10	15.49	<=23	Pass
				25	12.49	3.10	15.59	<=23	Pass
				50	12.41	3.10	15.51	<=23	Pass
100		0	12.99	3.10	16.09	<=23	Pass		
3625		1	0	13.64	3.10	16.74	<=23	Pass	
			50	13.41	3.10	16.51	<=23	Pass	
			99	14.36	3.10	17.46	<=23	Pass	
		50	0	13.61	3.10	16.71	<=23	Pass	
			25	13.61	3.10	16.71	<=23	Pass	
			50	13.45	3.10	16.55	<=23	Pass	
100		0	14.85	3.10	17.95	<=23	Pass		
3690		1	0	14.21	3.10	17.31	<=23	Pass	
			50	14.35	3.10	17.45	<=23	Pass	
			99	14.61	3.10	17.71	<=23	Pass	
		50	0	14.25	3.10	17.35	<=23	Pass	
	25		14.21	3.10	17.31	<=23	Pass		
	50		13.92	3.10	17.02	<=23	Pass		
100	0	15.02	3.10	18.12	<=23	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

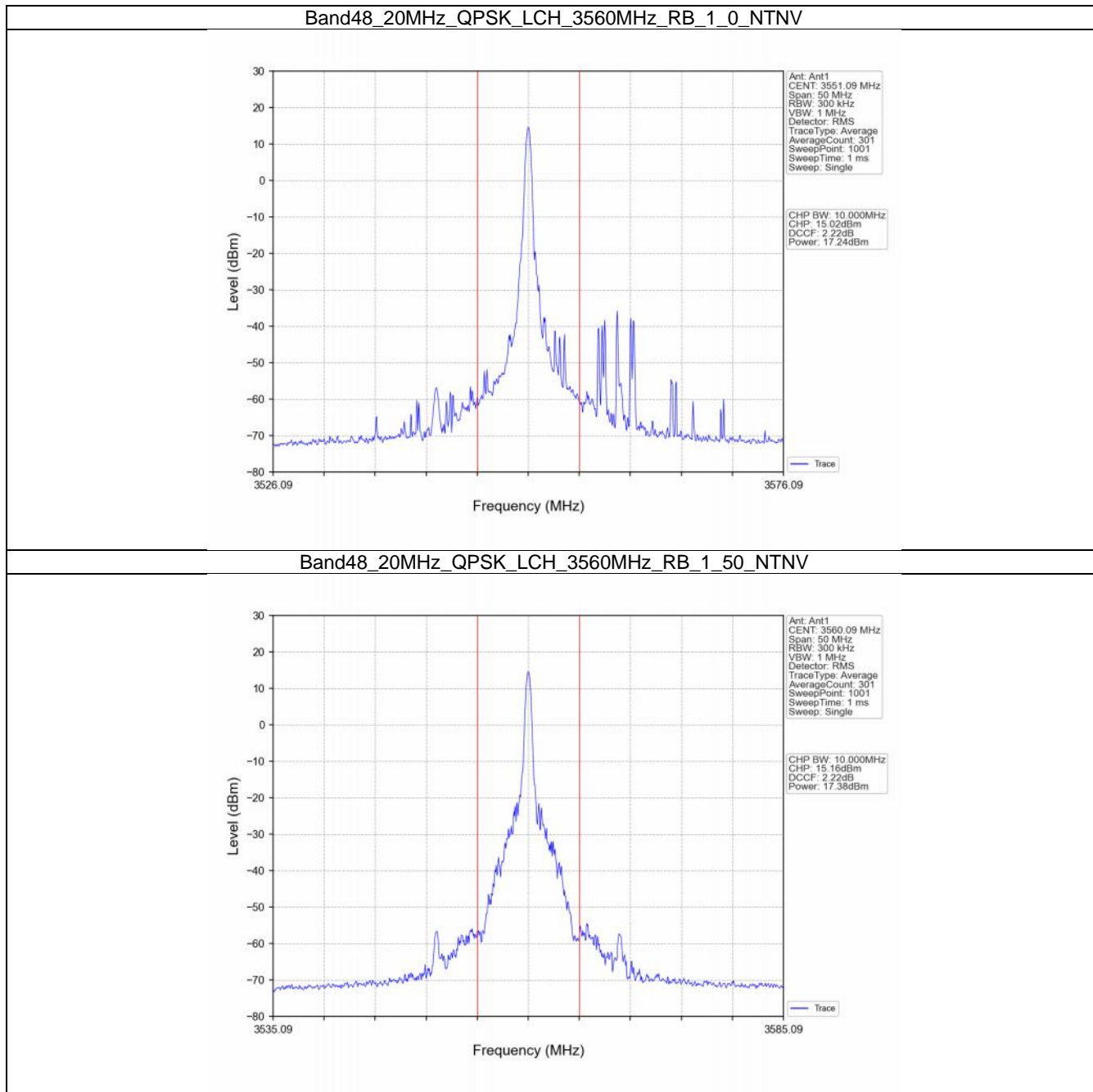


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2.4.2 Test Graph

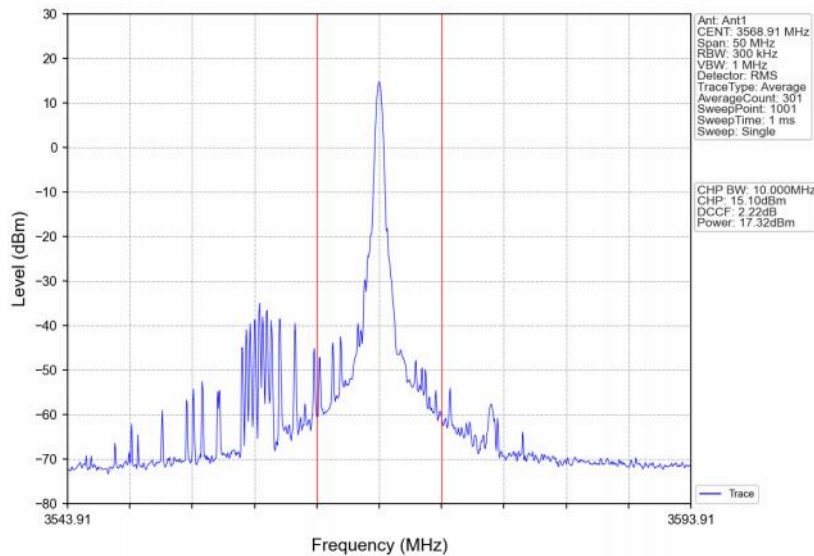


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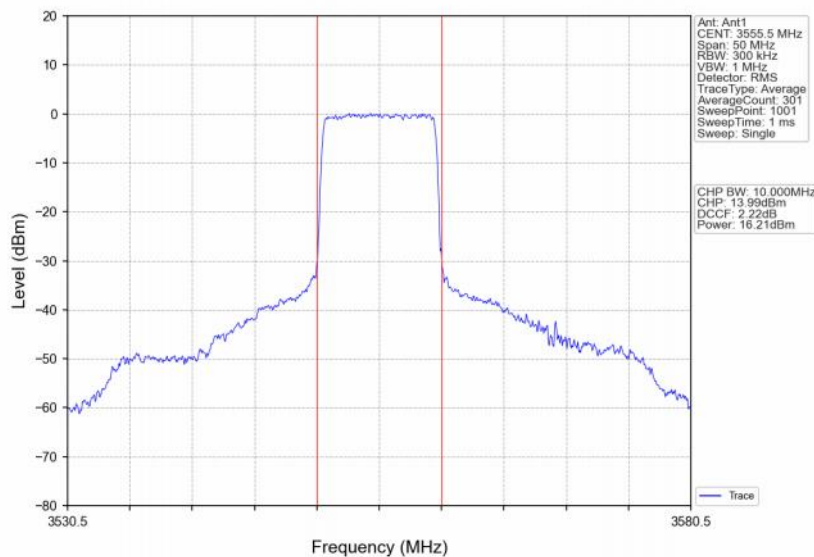
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Band48_20MHz_QPSK_LCH_3560MHz_RB_1_99_NTNV



Band48_20MHz_QPSK_LCH_3560MHz_RB_50_0_NTNV

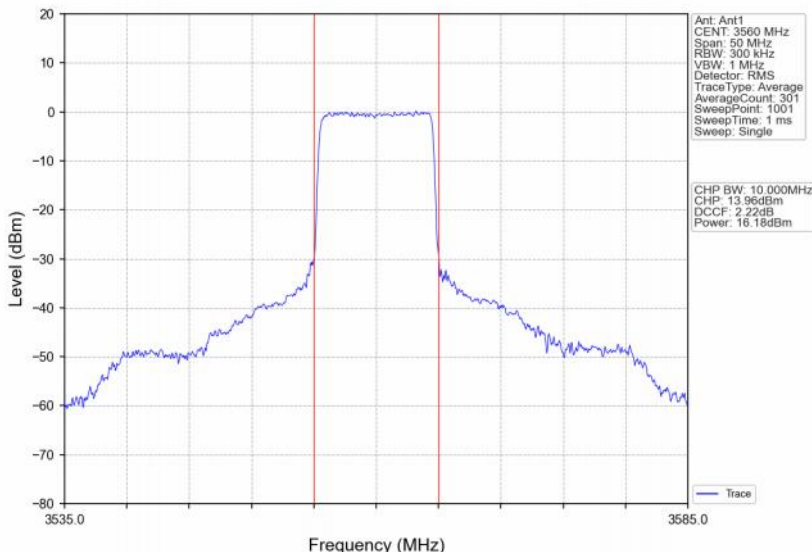


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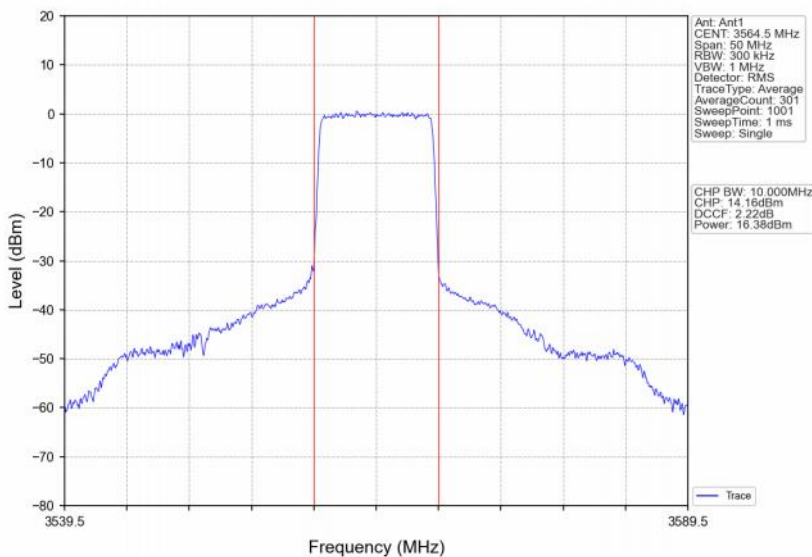
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Band48_20MHz_QPSK_LCH_3560MHz_RB_50_25_NTNV



Band48_20MHz_QPSK_LCH_3560MHz_RB_50_50_NTNV

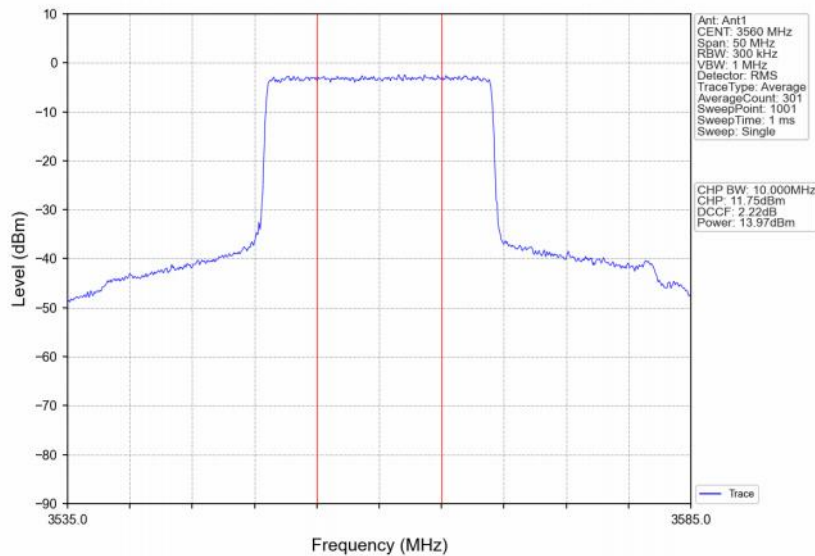


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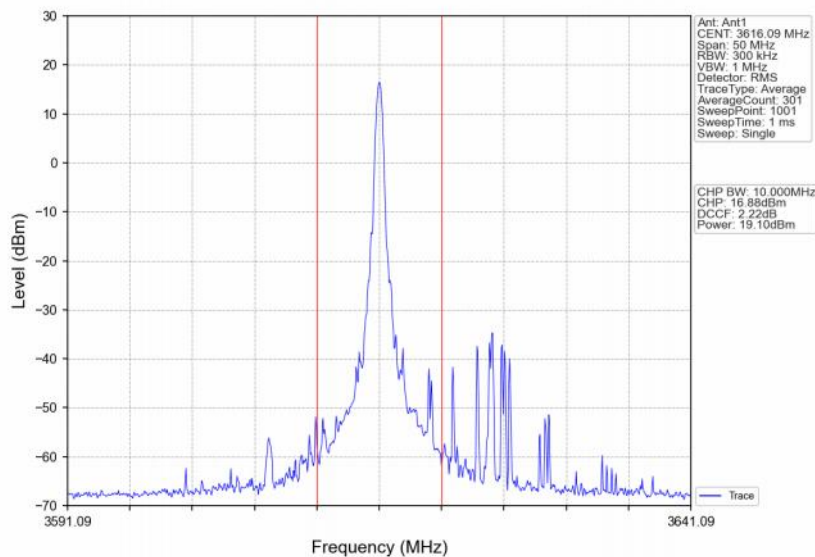
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Band48_20MHz_QPSK_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV

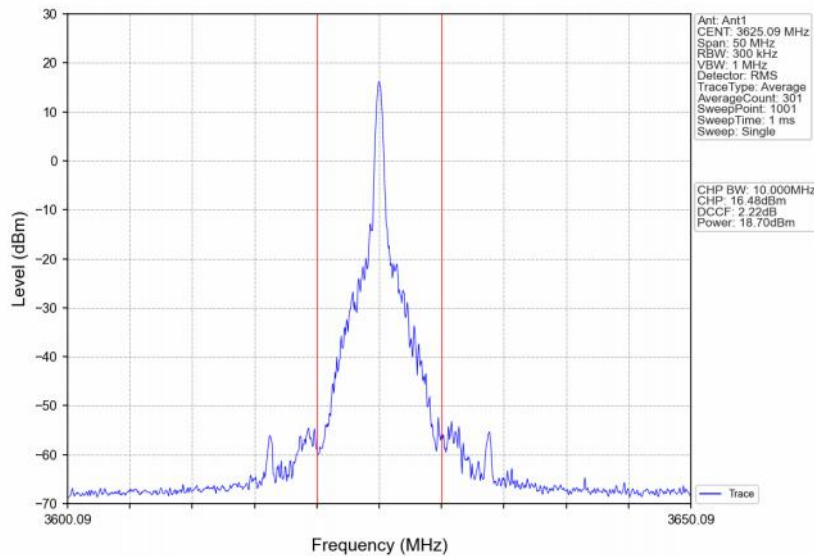


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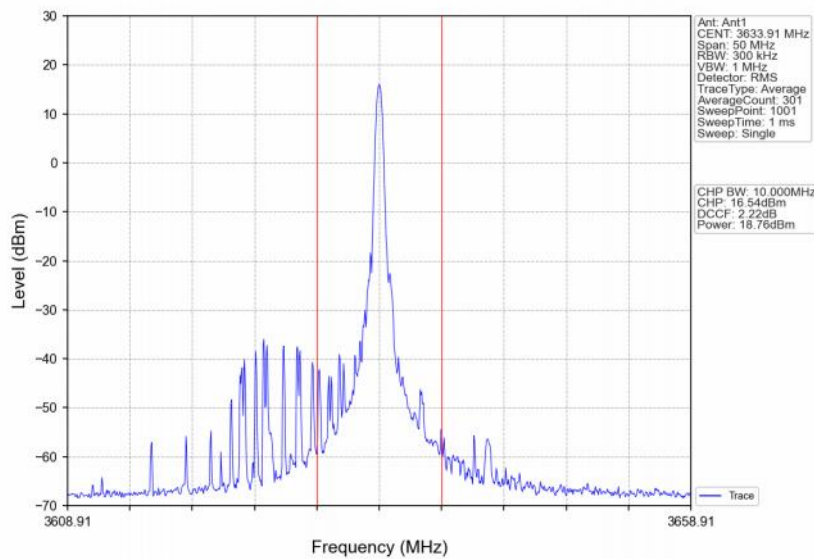
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Band48_20MHz_QPSK_MCH_3625MHz_RB_1_50_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_1_99_NTNV

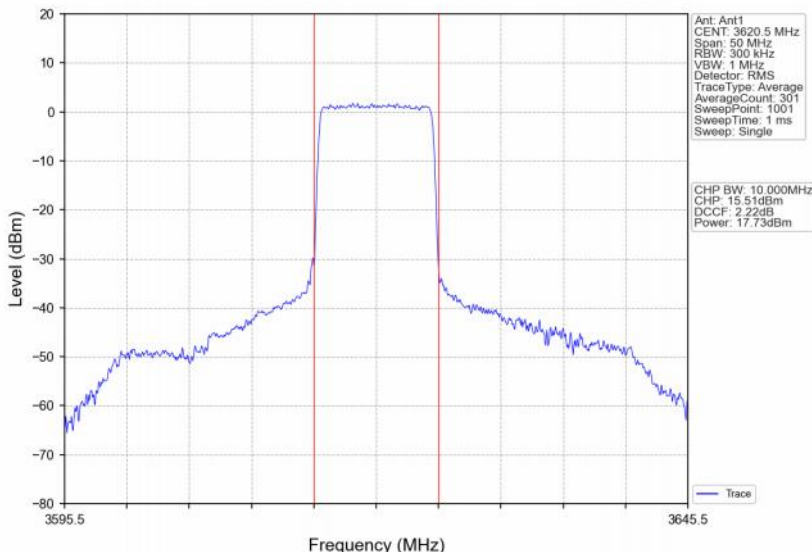


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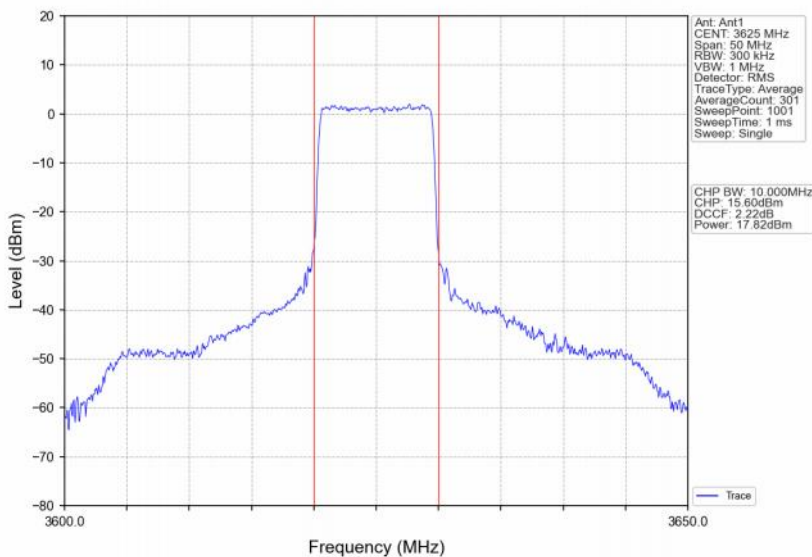
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Band48_20MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_50_25_NTNV

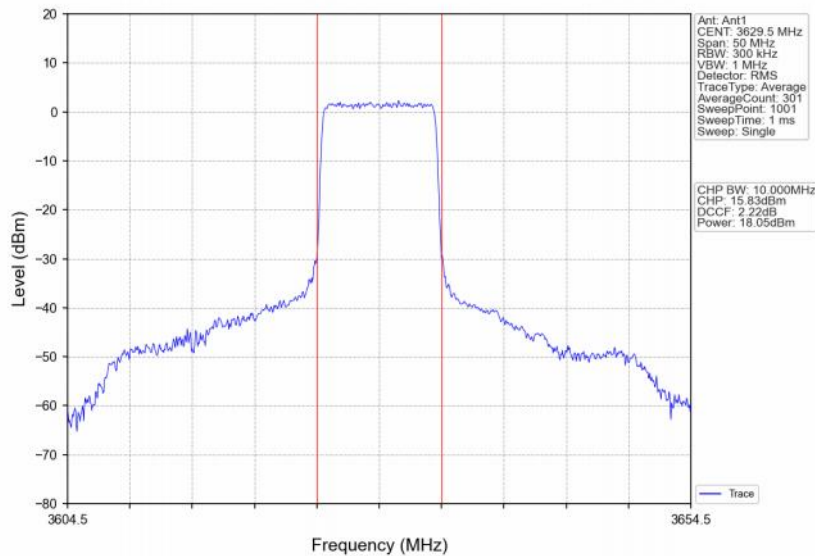


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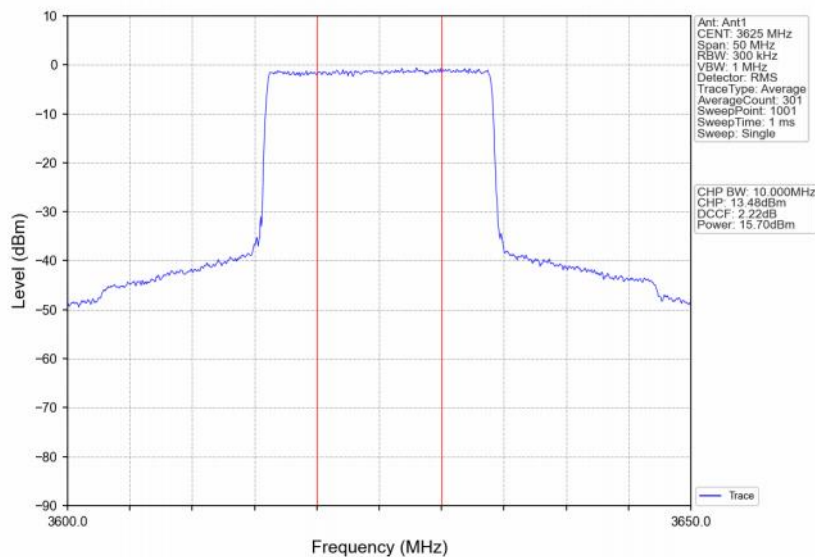
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Band48_20MHz_QPSK_MCH_3625MHz_RB_50_50_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_100_0_NTNV

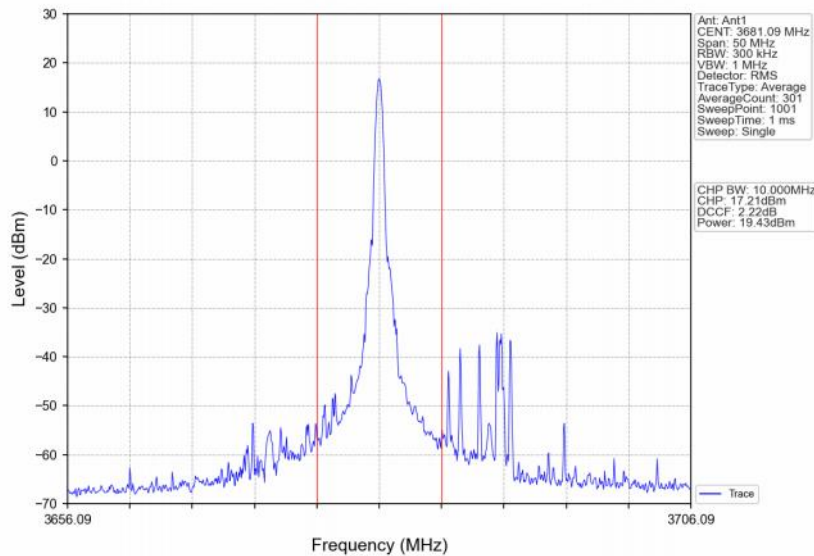


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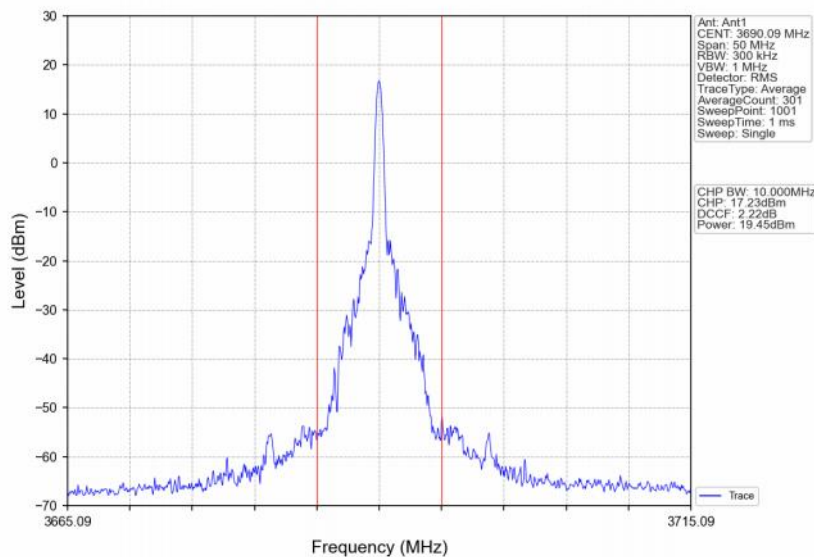
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_1_50_NTNV

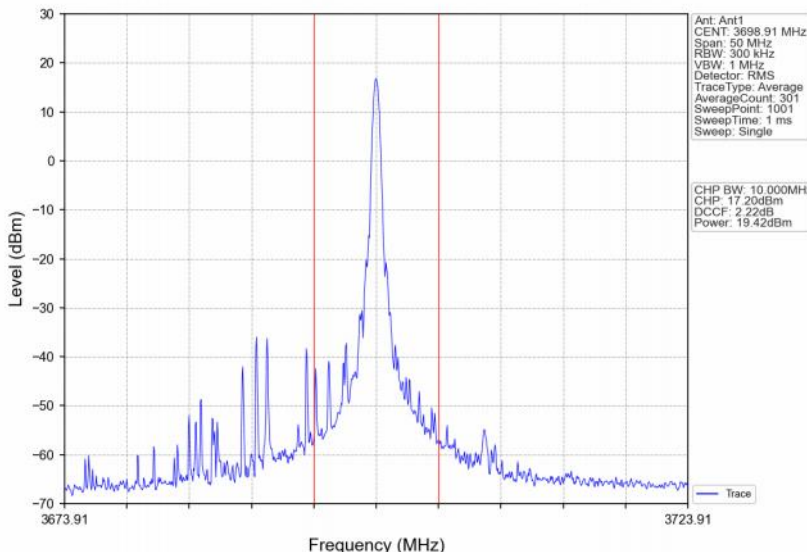


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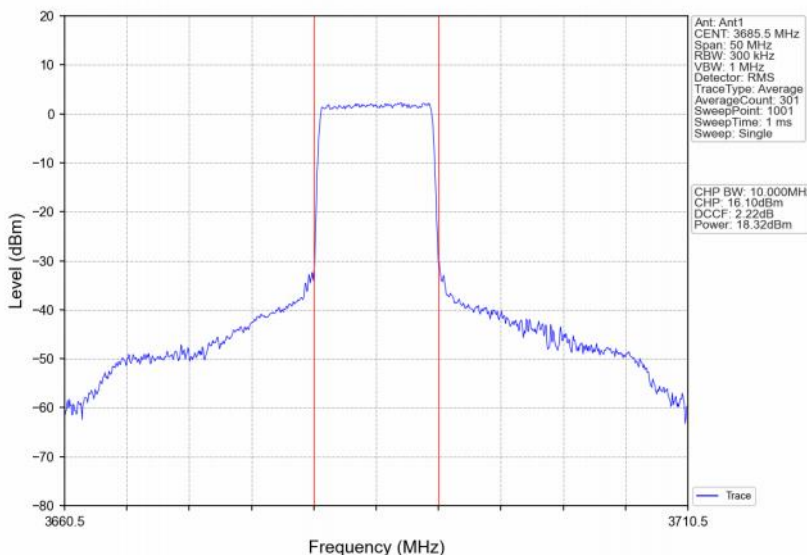
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_99_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_50_0_NTNV

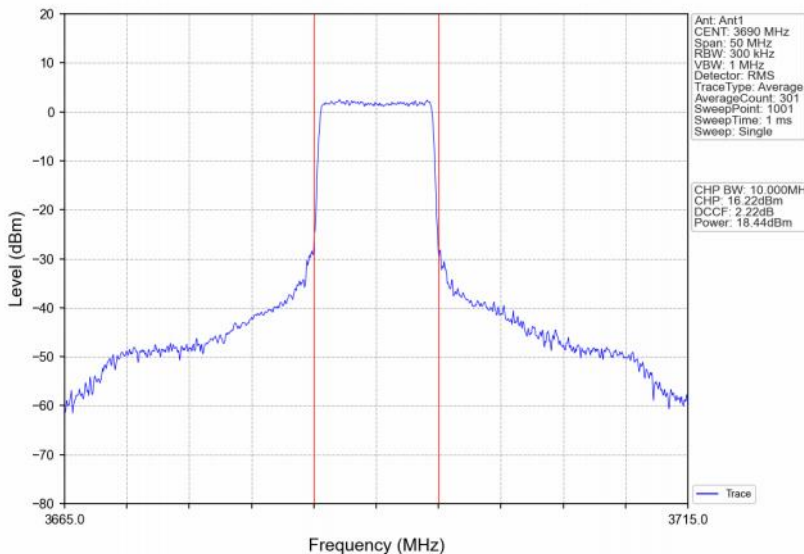


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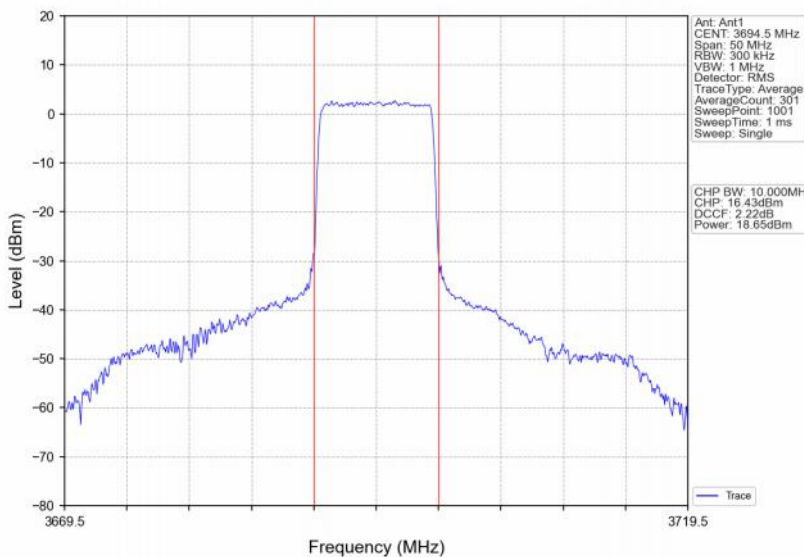
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Band48_20MHz_QPSK_HCH_3690MHz_RB_50_25_NTNV



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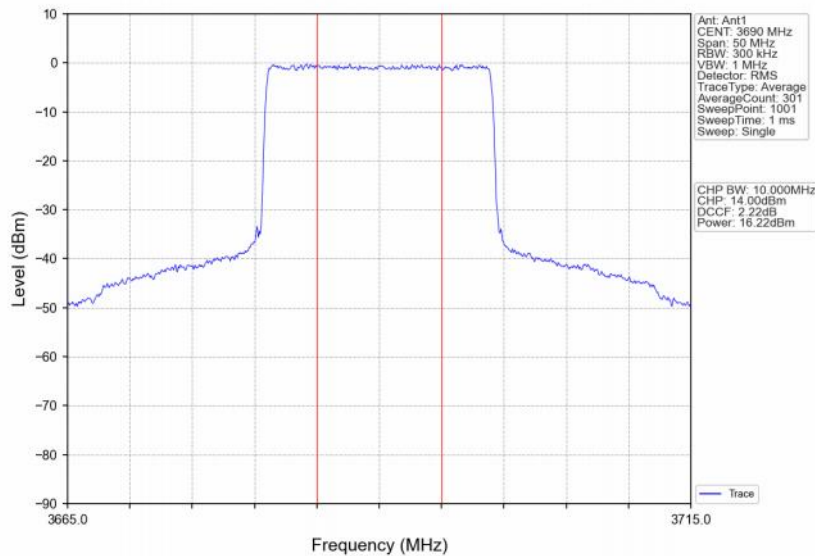


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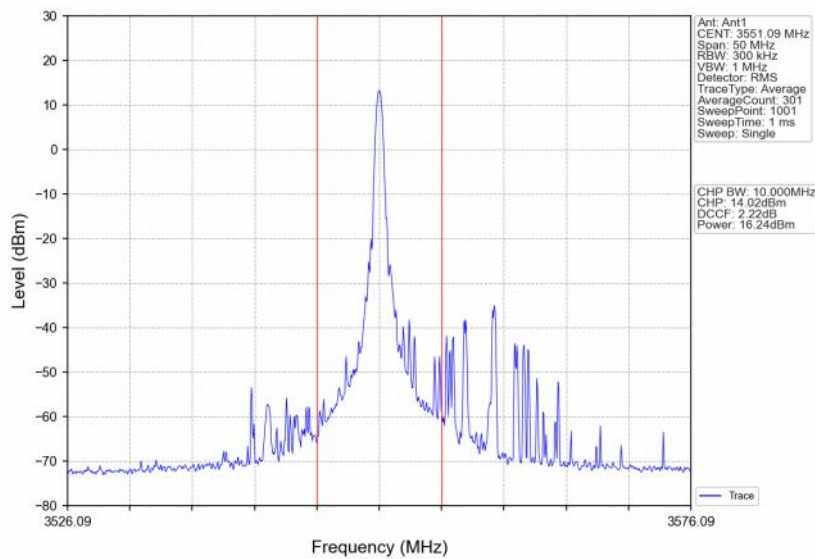
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Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_LCH_3560MHz_RB_1_0_NTNV

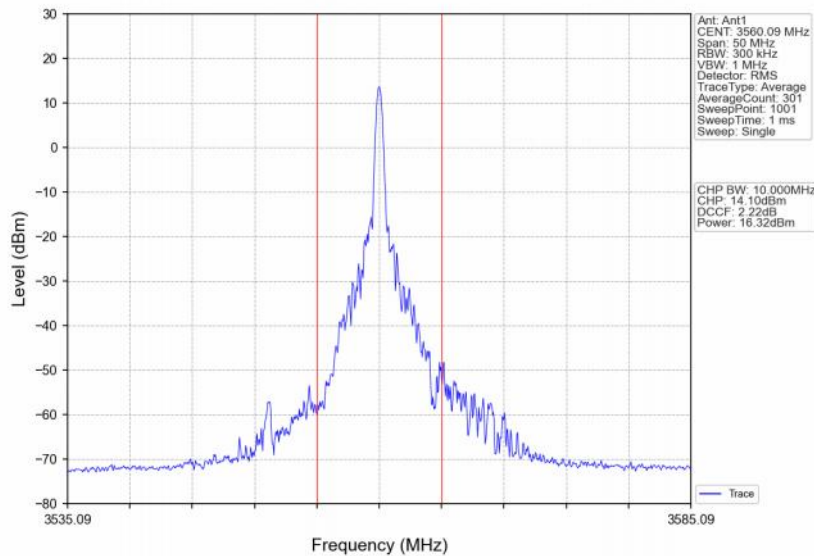


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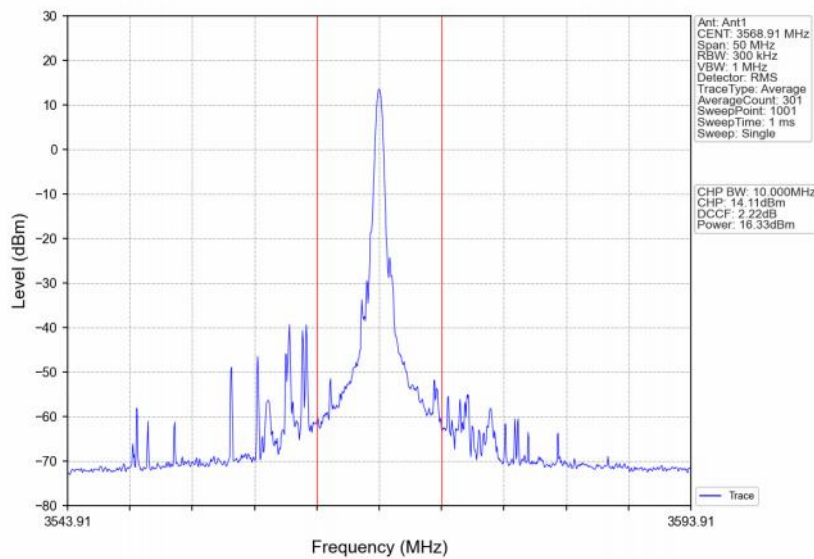
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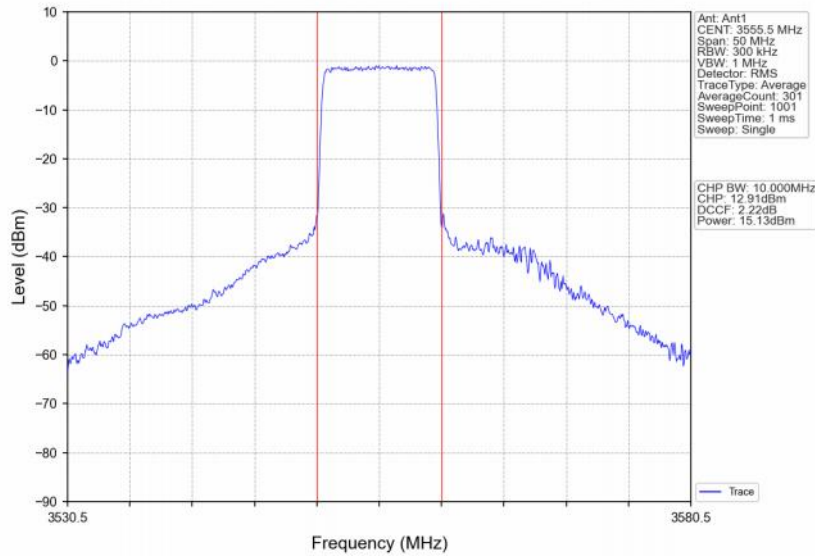


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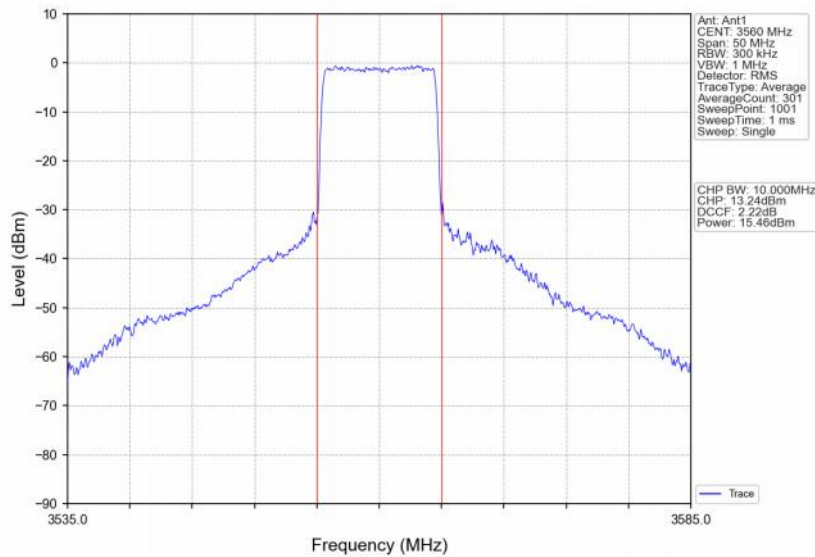
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Band48_20MHz_16QAM_LCH_3560MHz_RB_50_25_NTNV

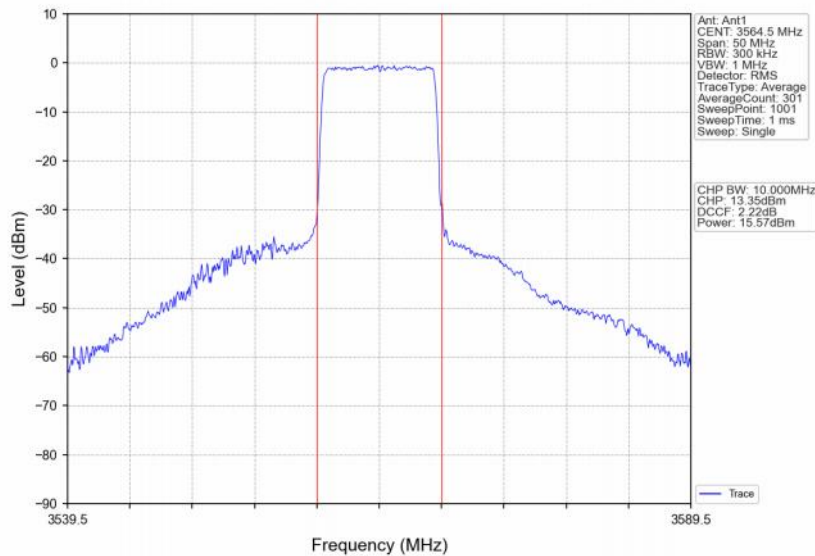


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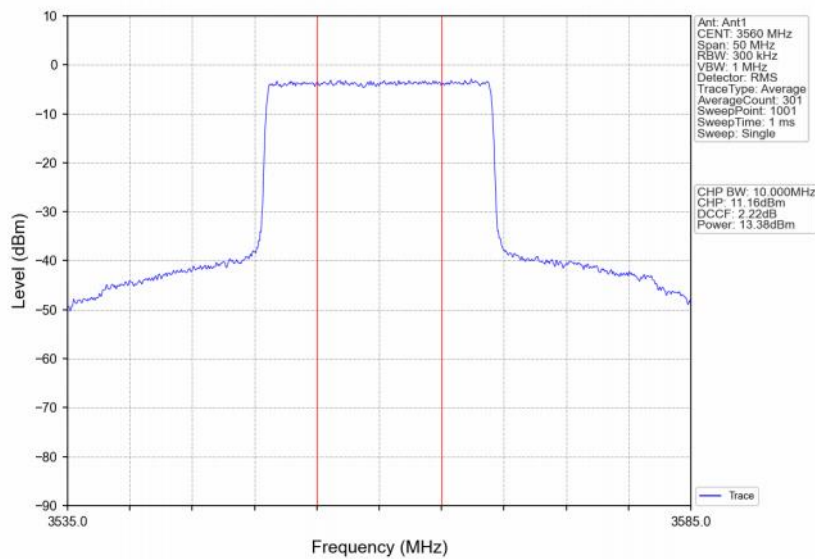
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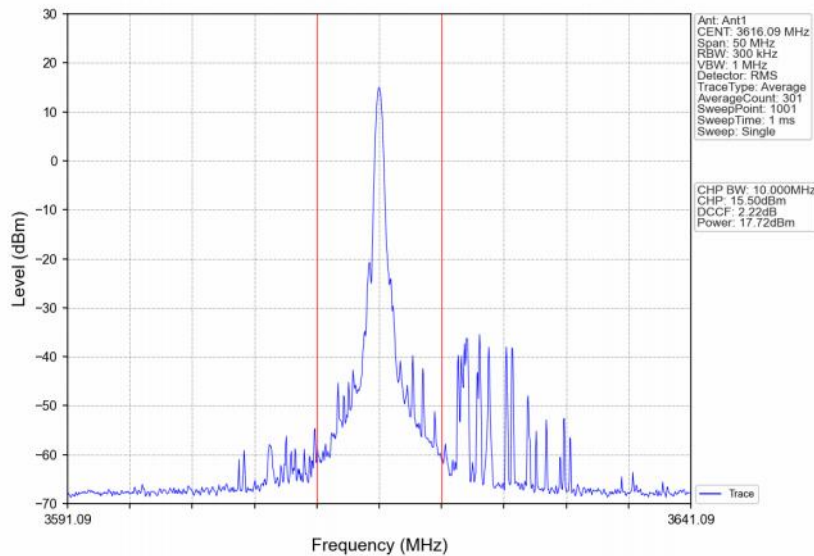


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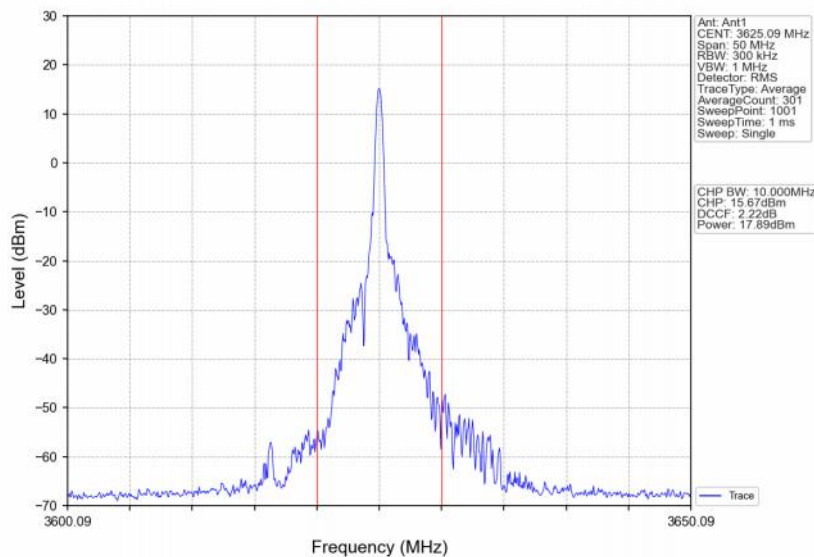
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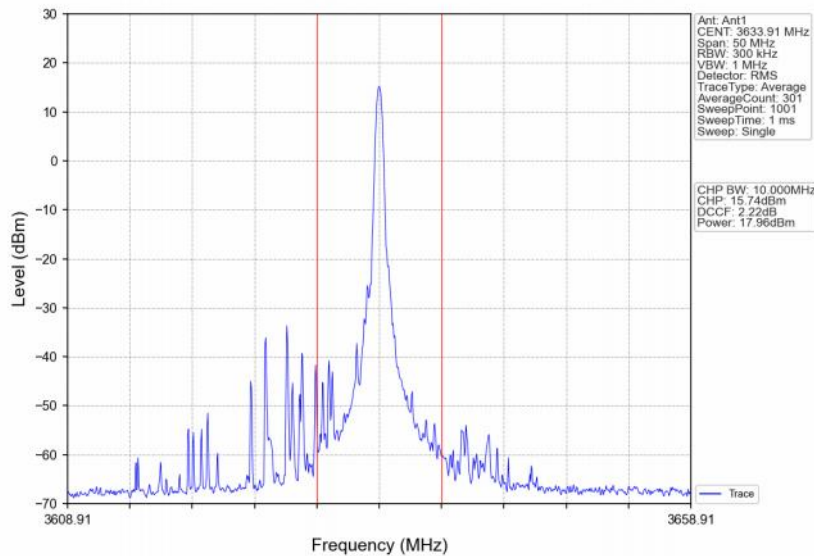


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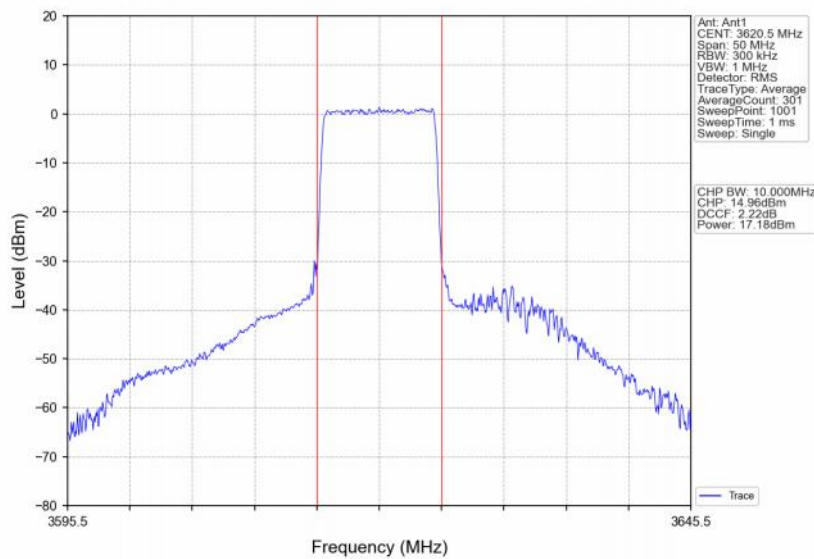
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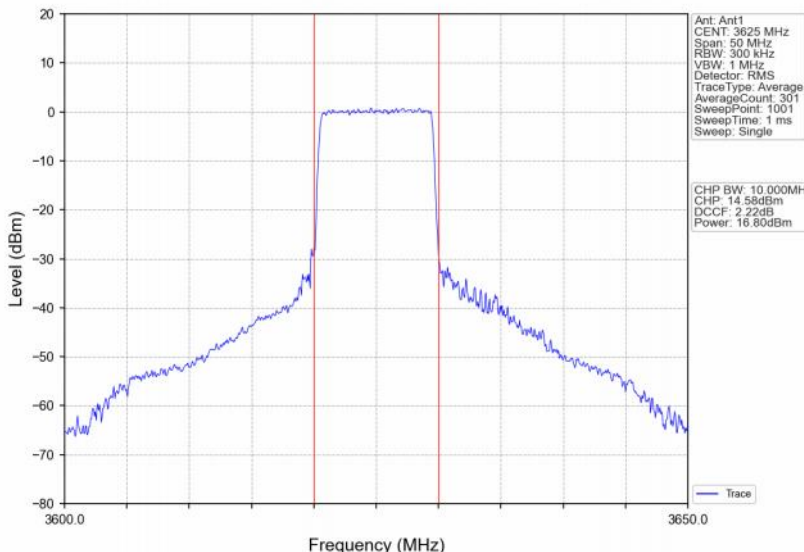


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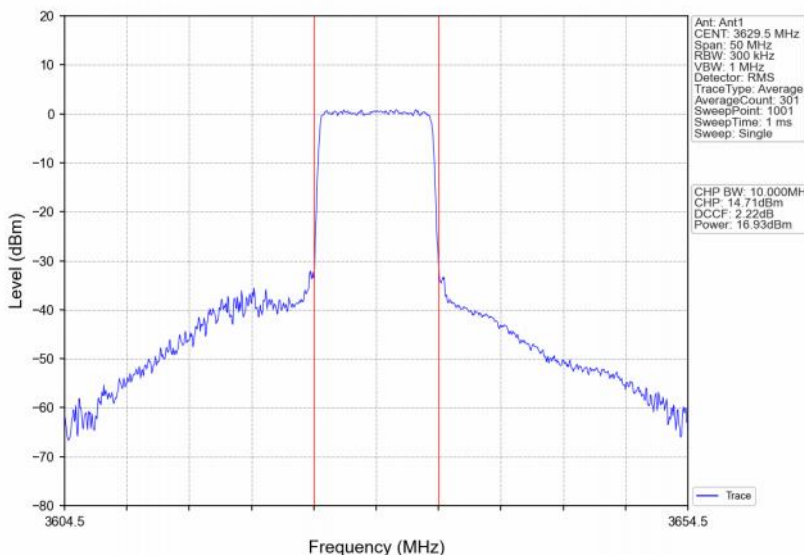
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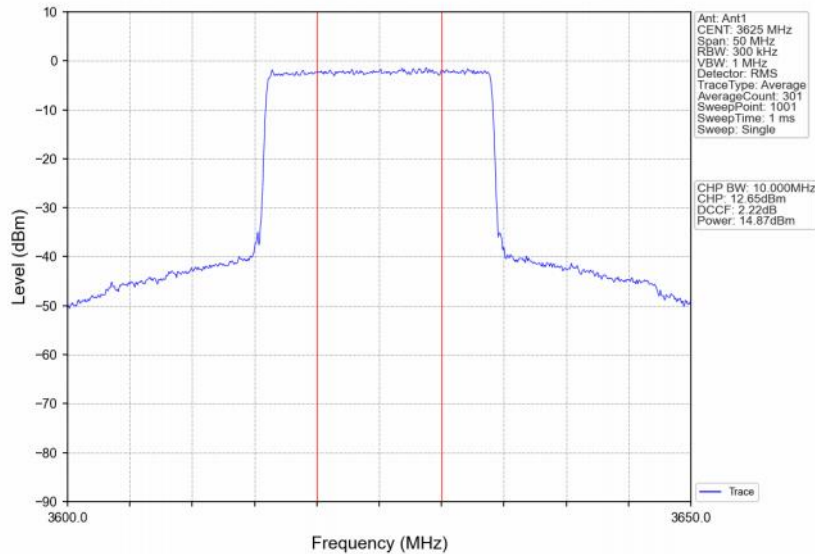


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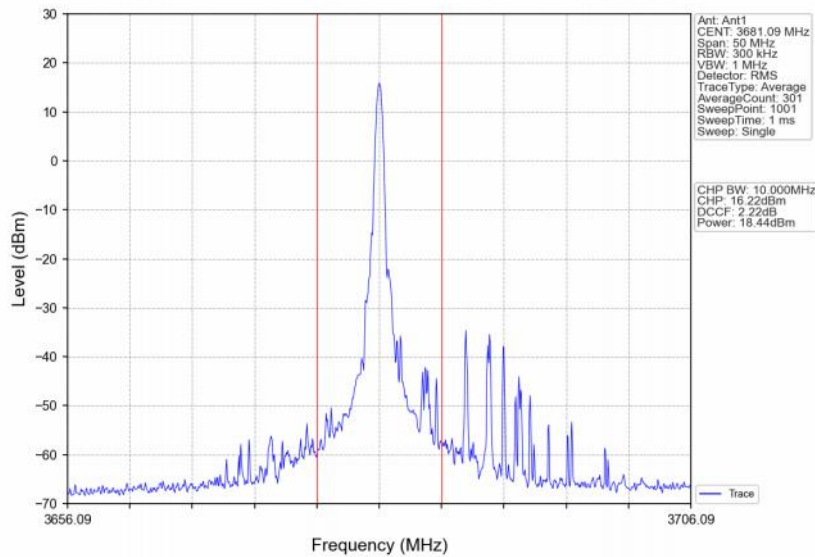
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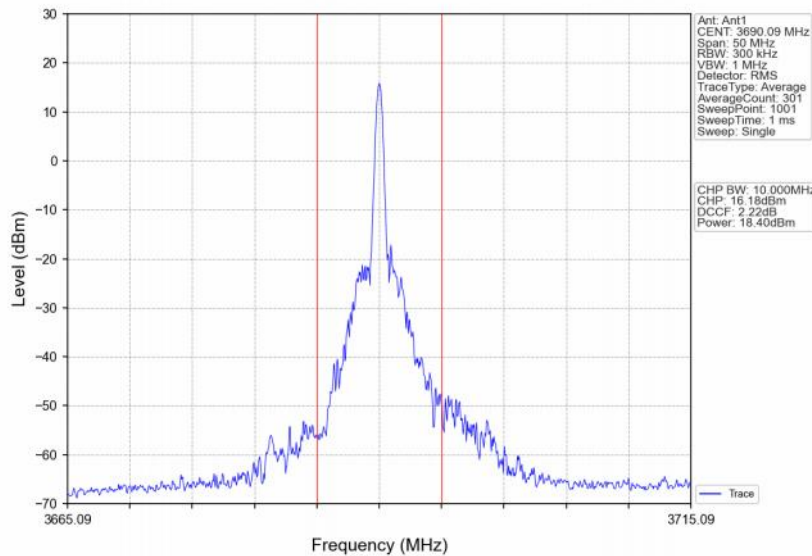


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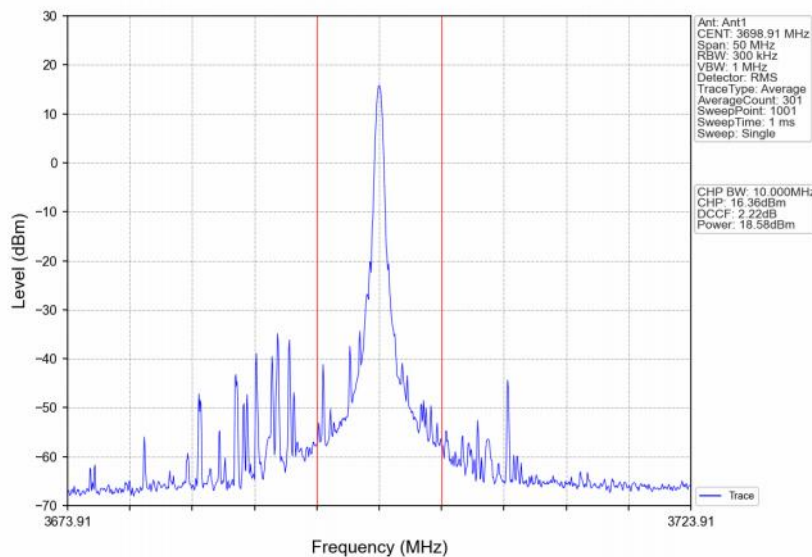
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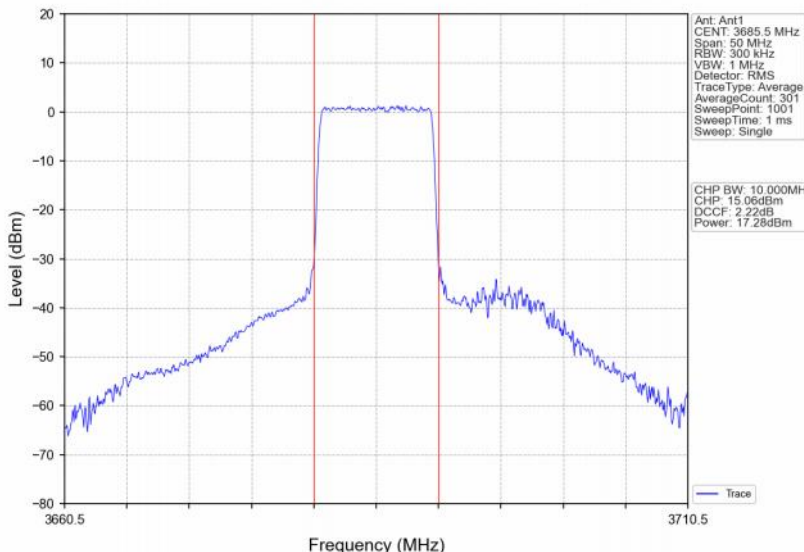


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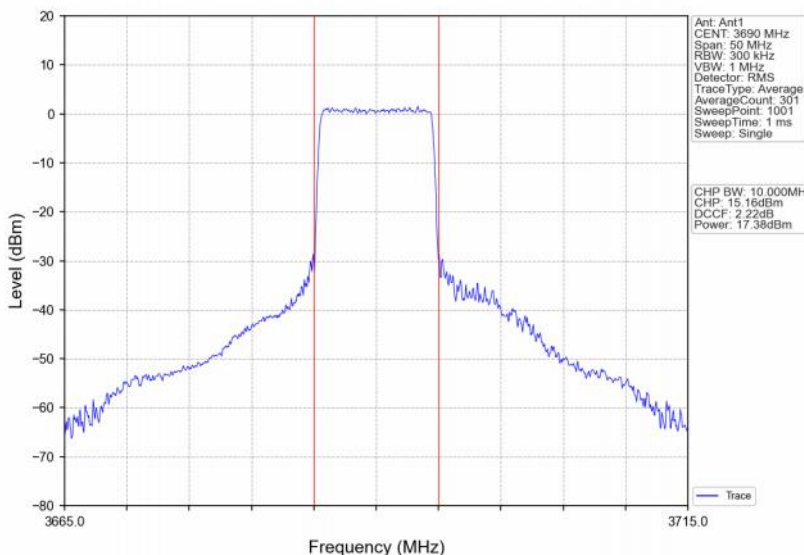
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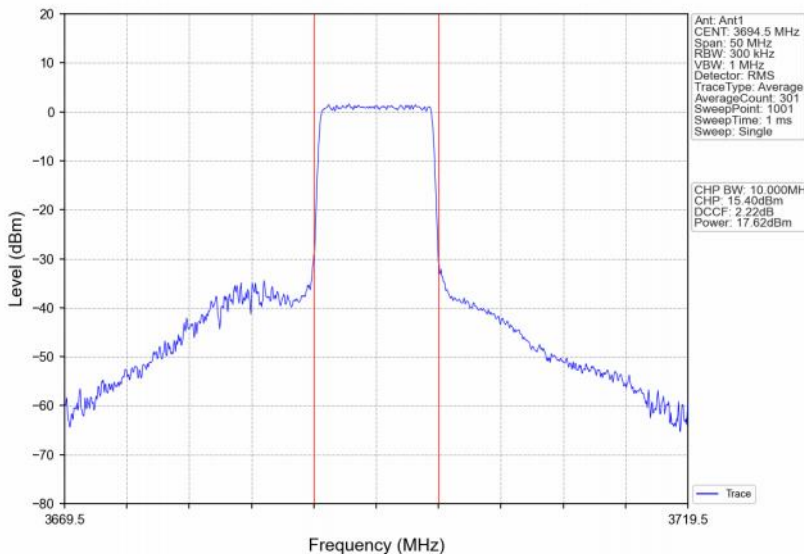


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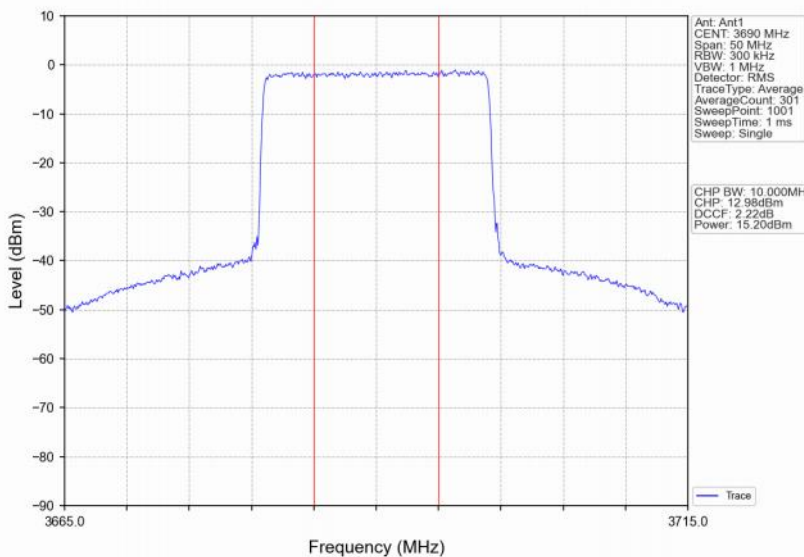
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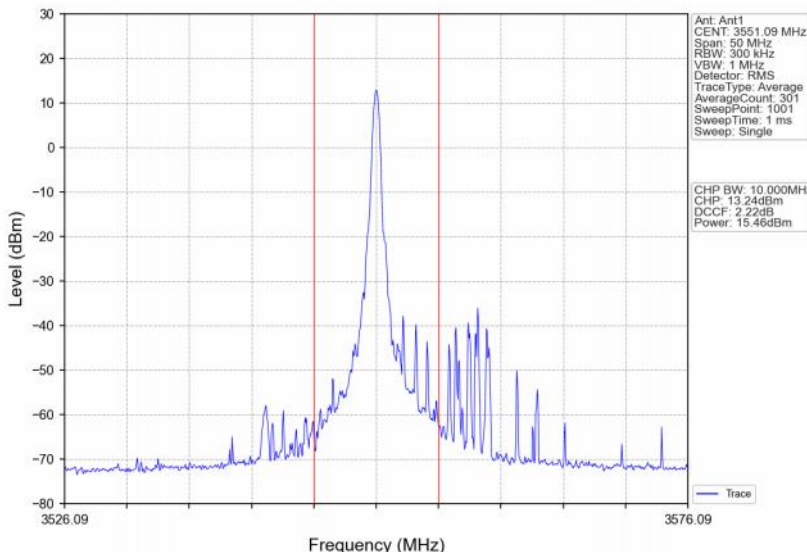


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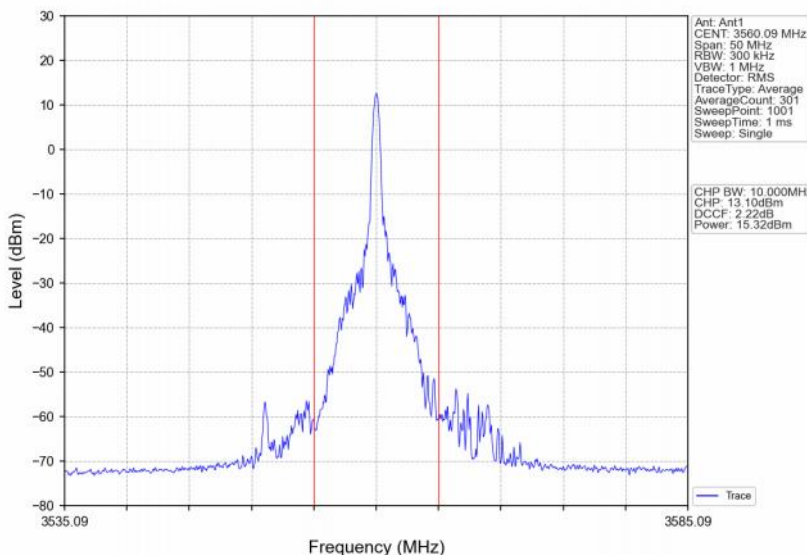
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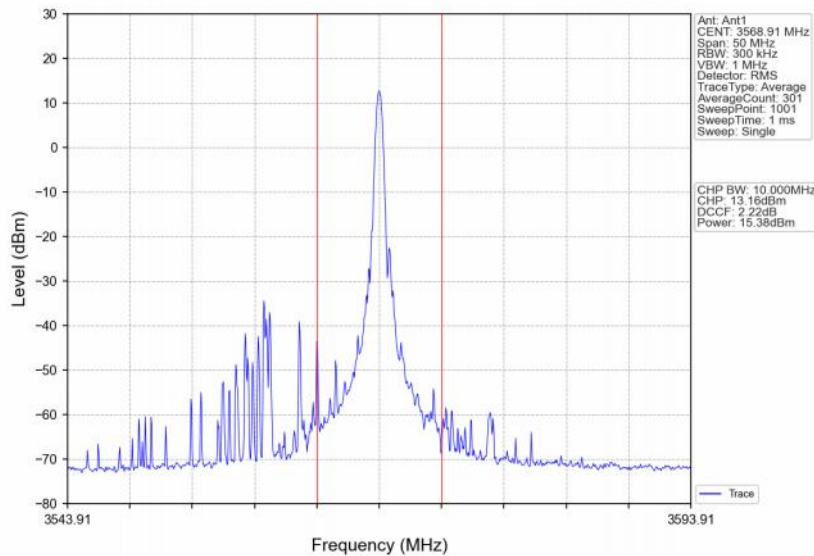


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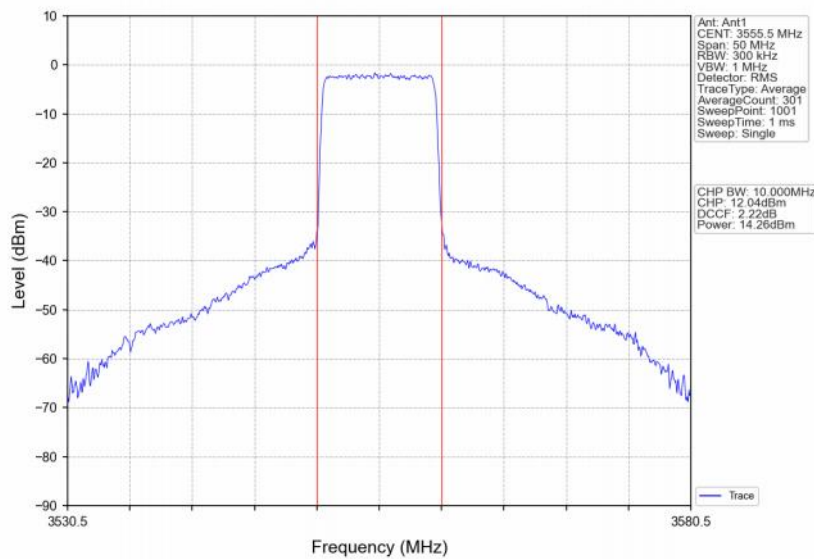
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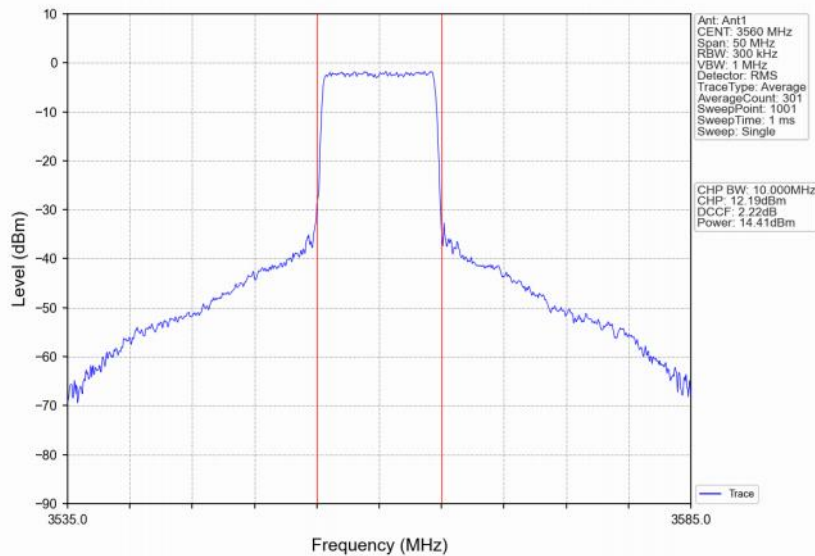


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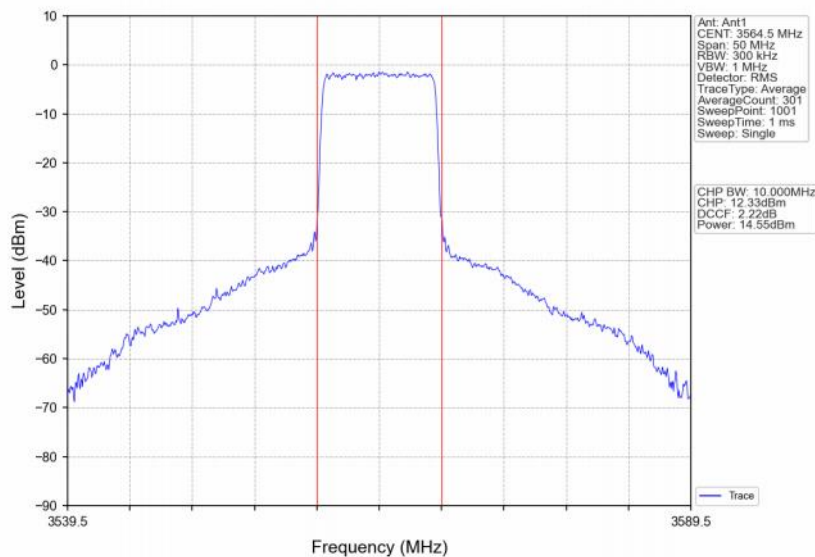
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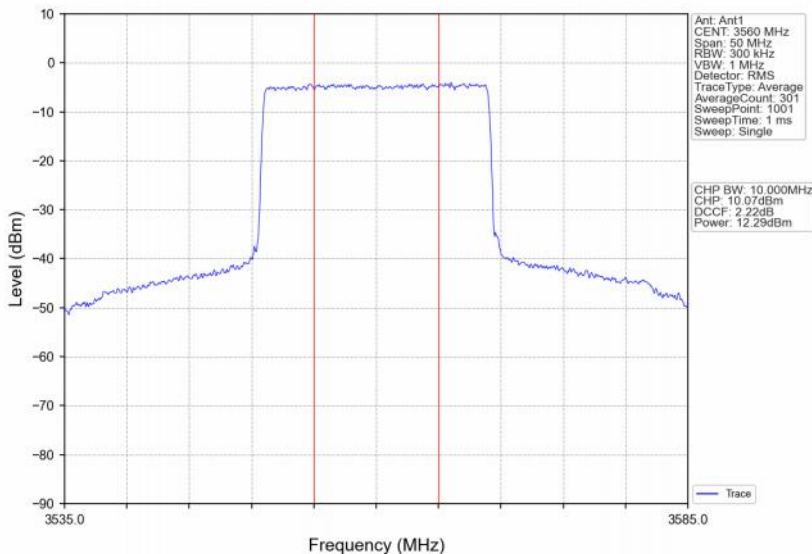


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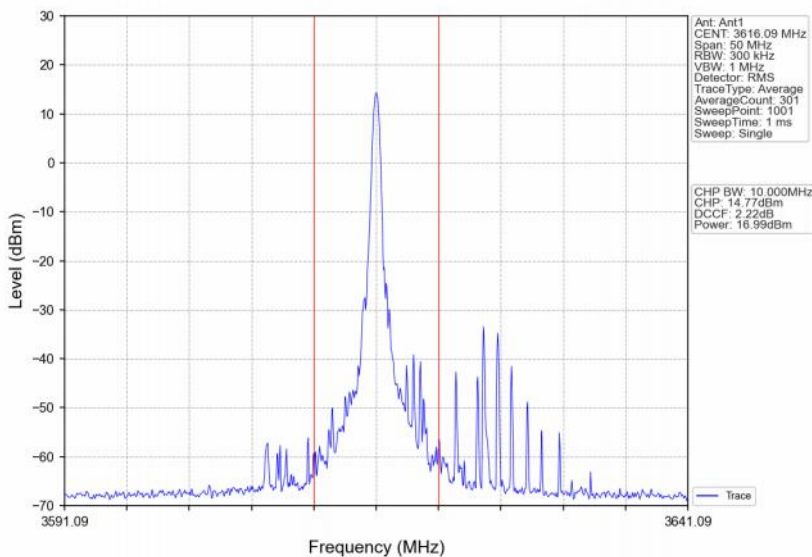
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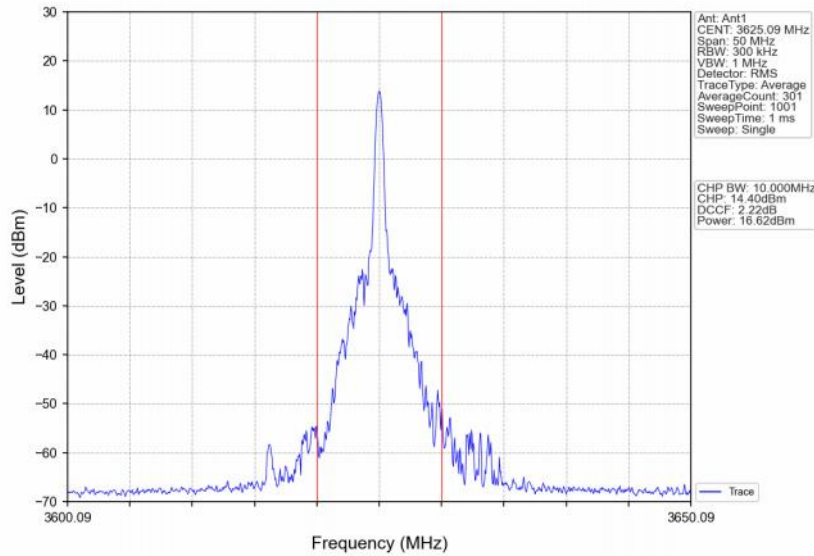


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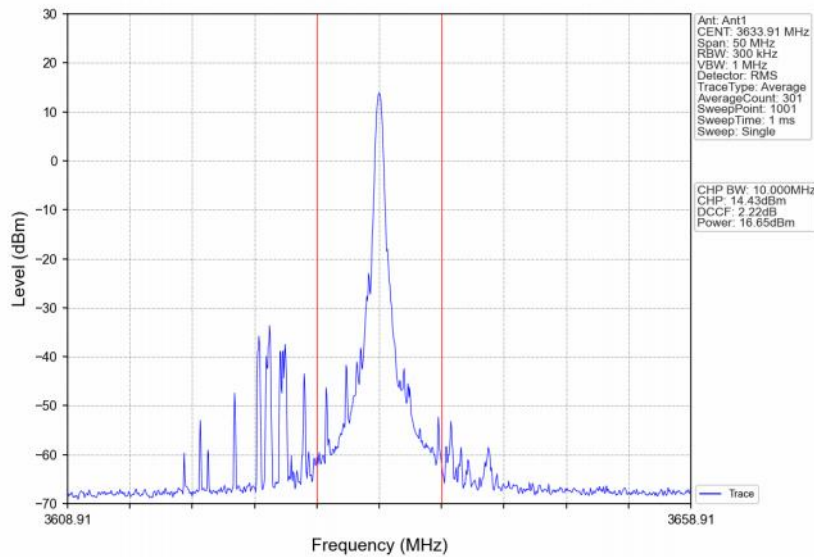
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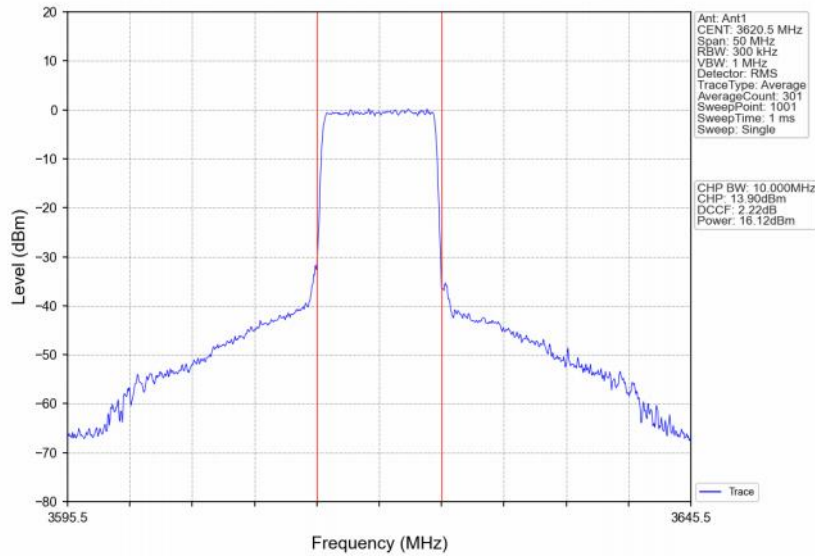


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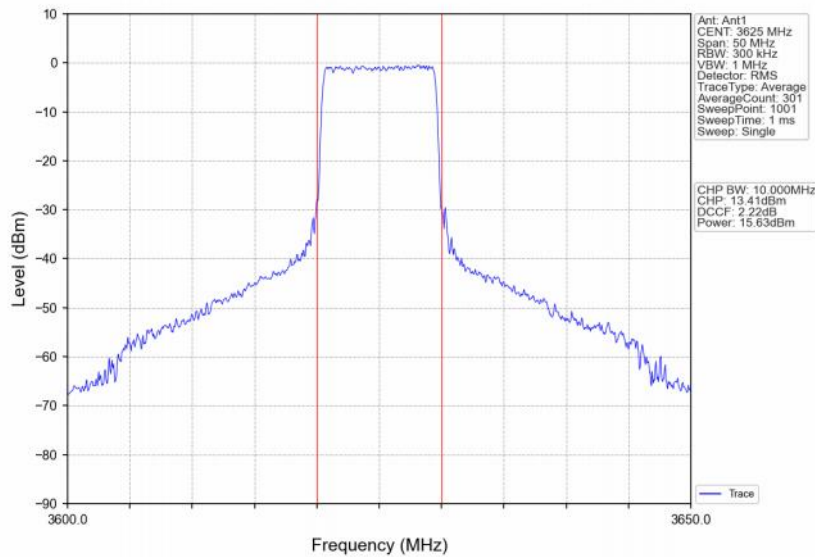
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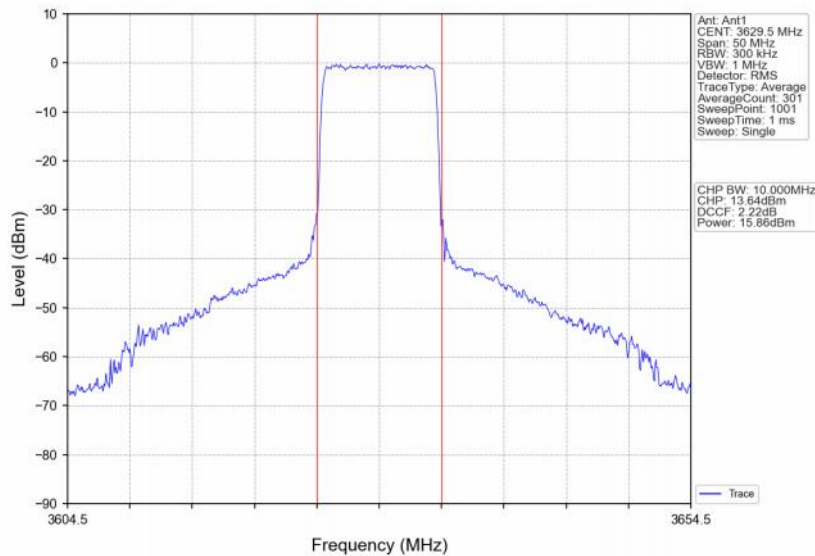


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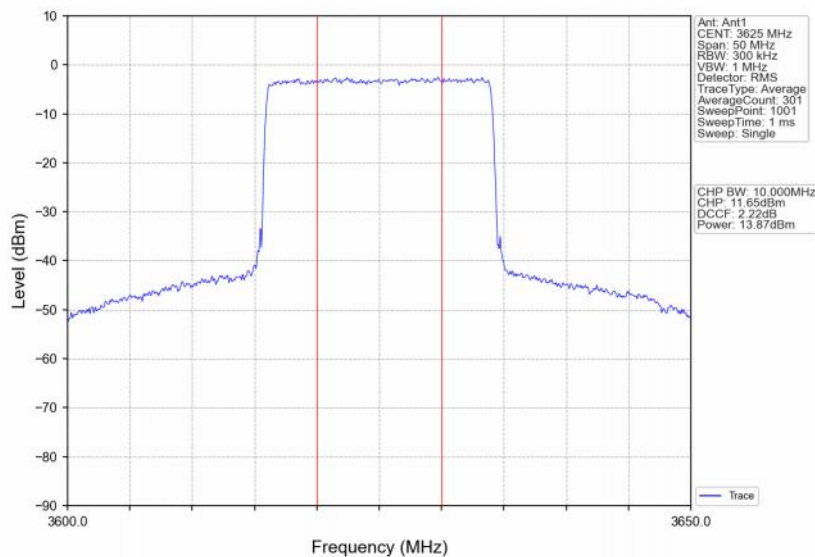
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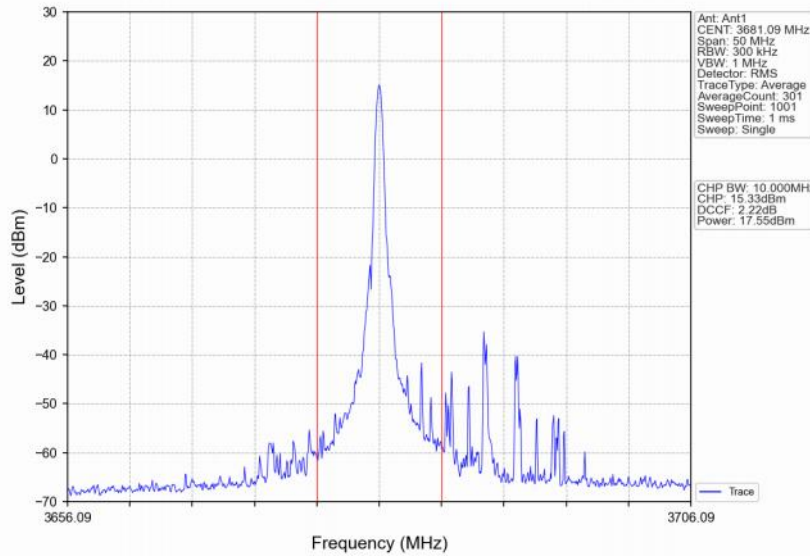


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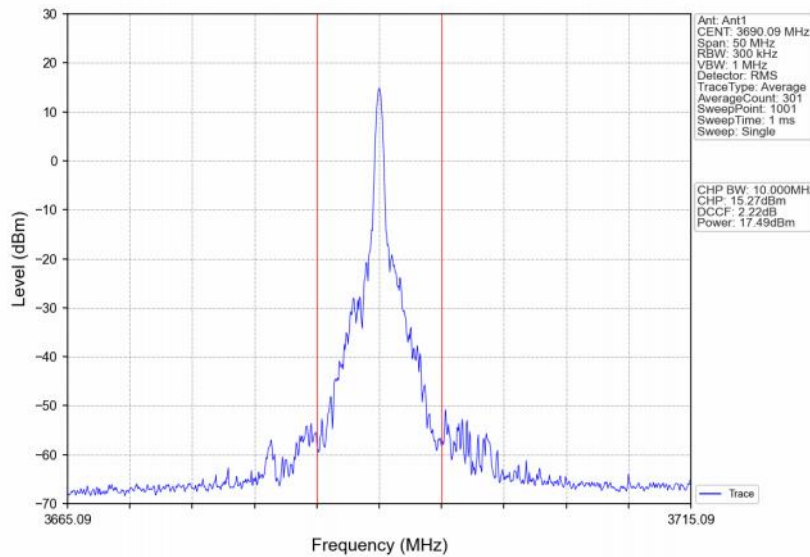
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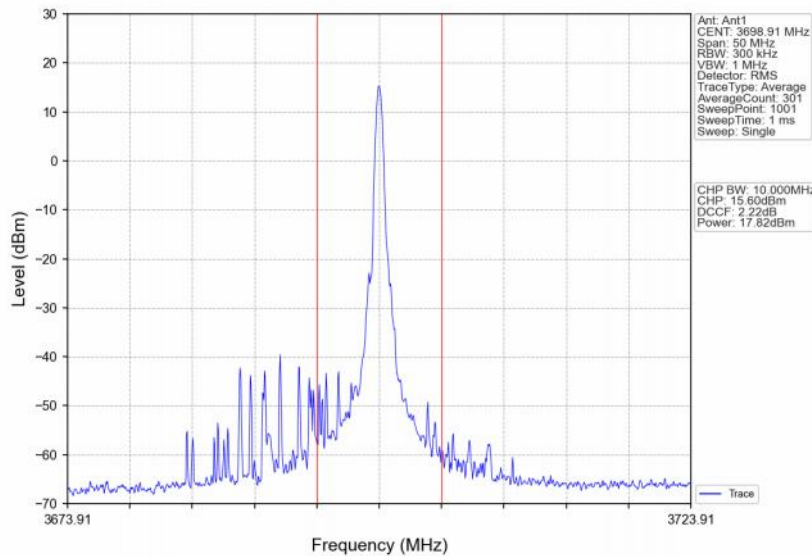


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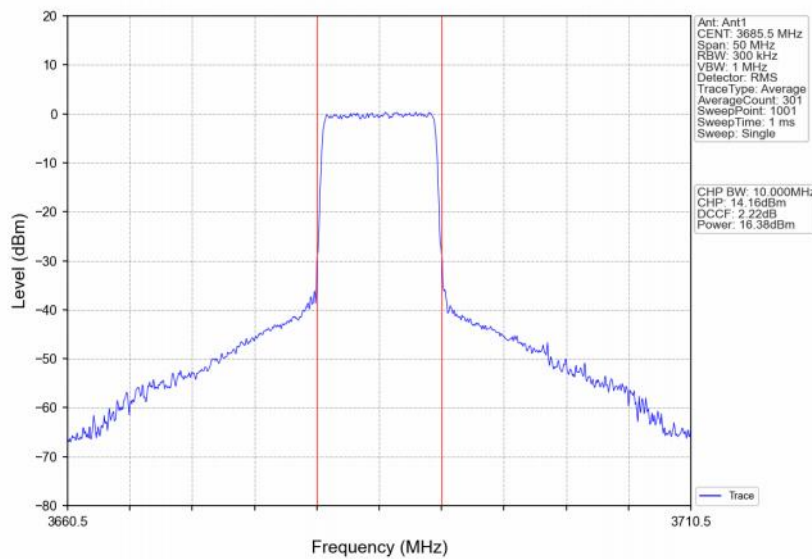
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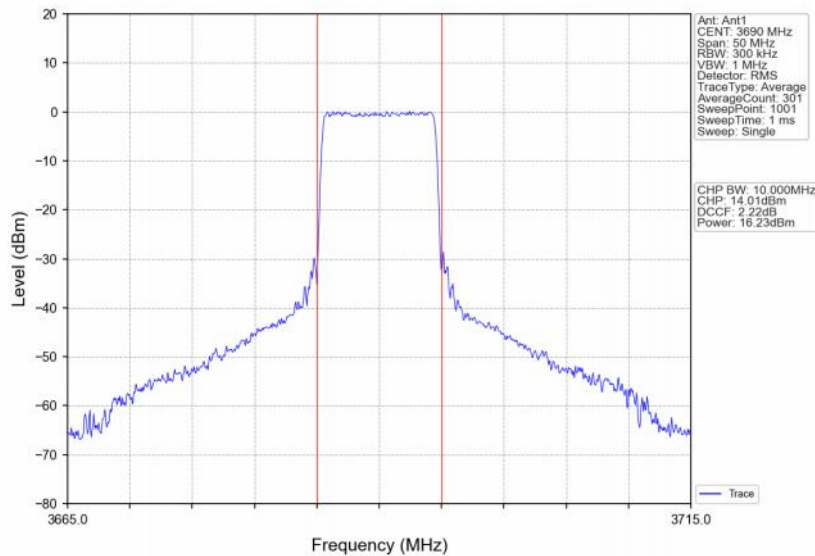


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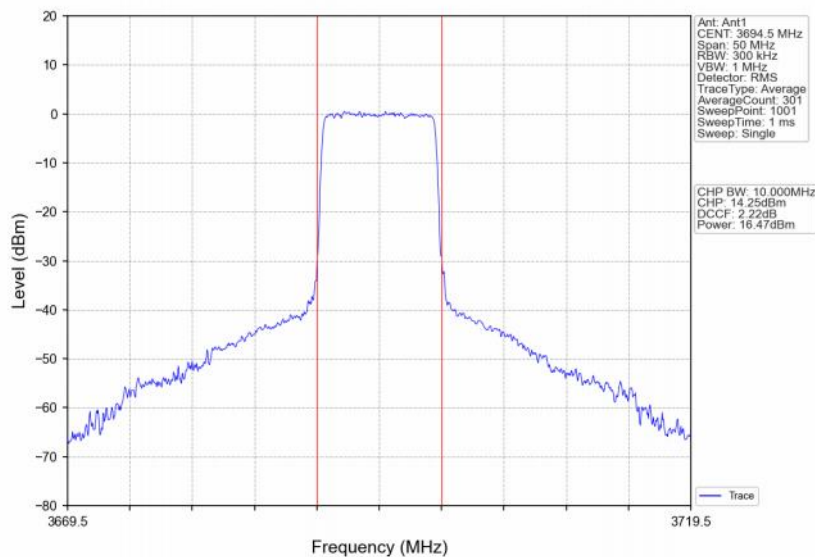
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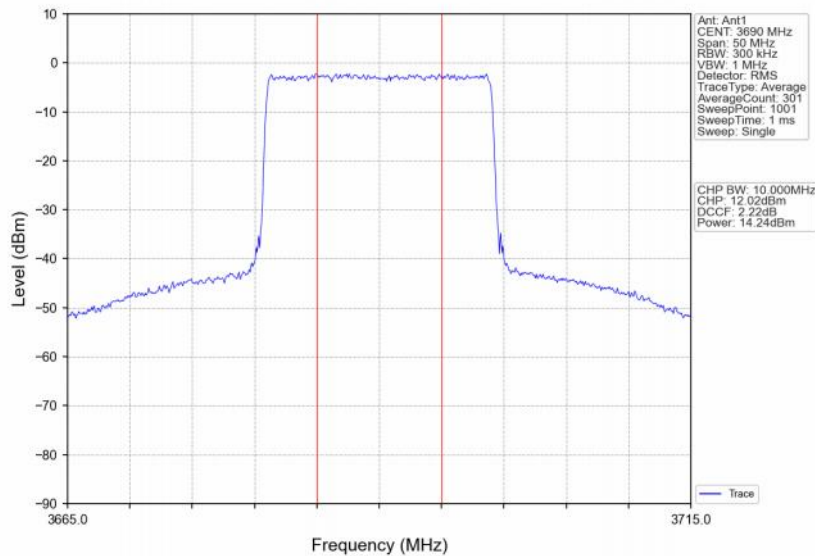


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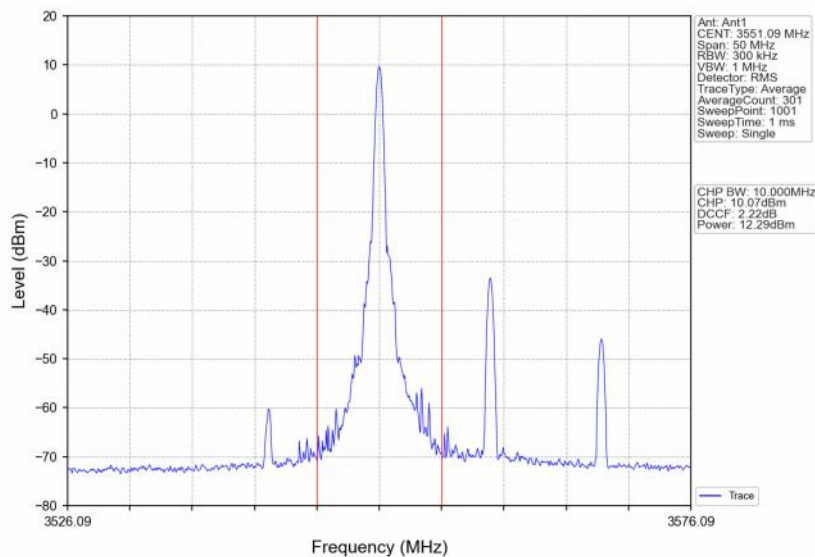
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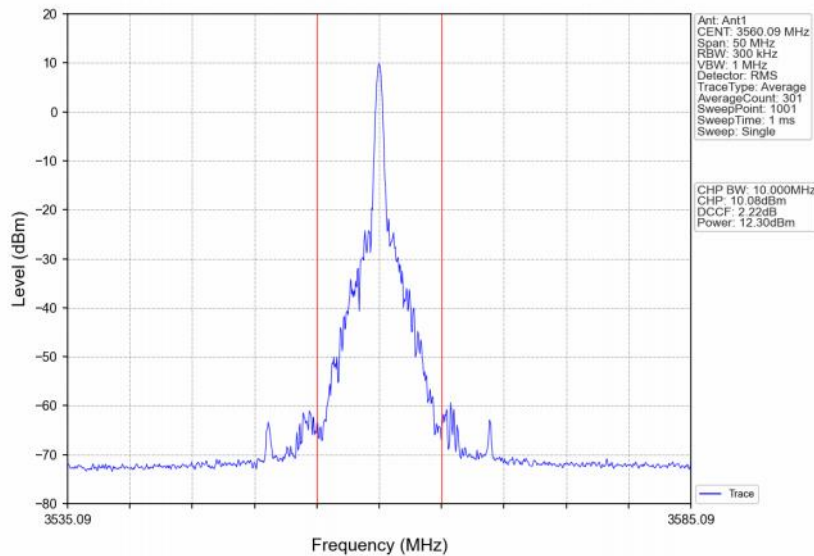


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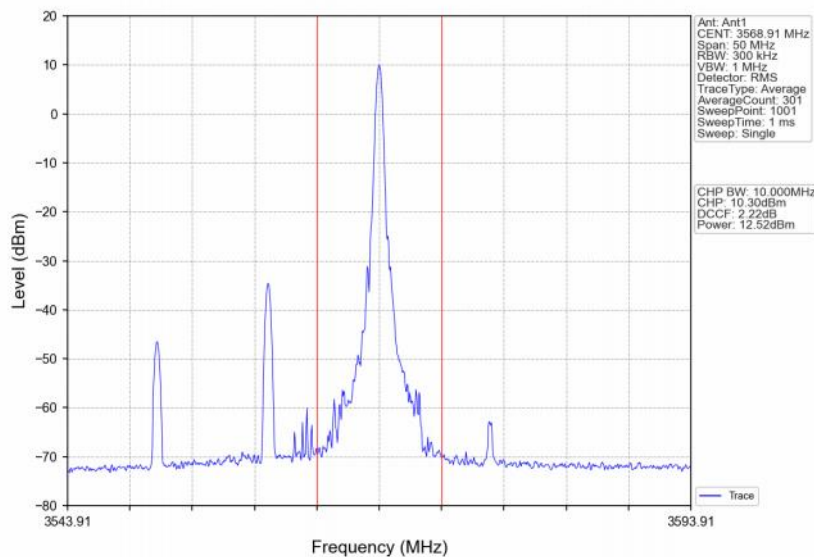
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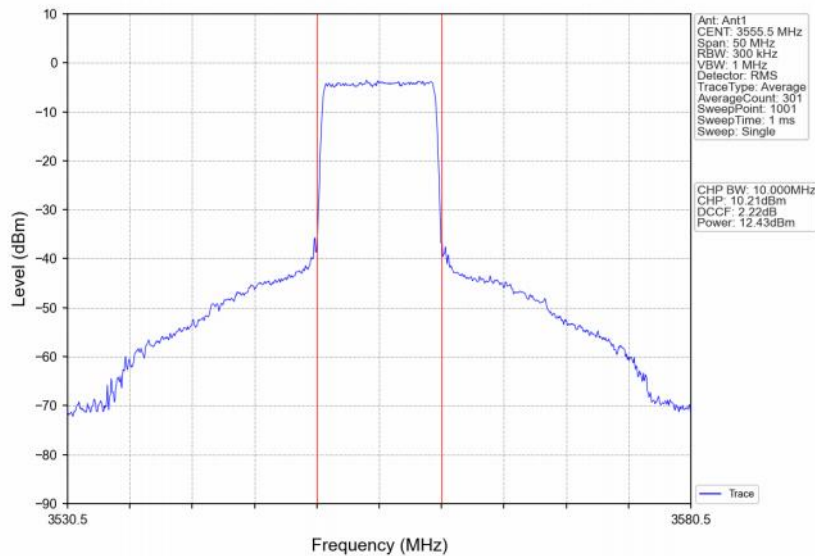


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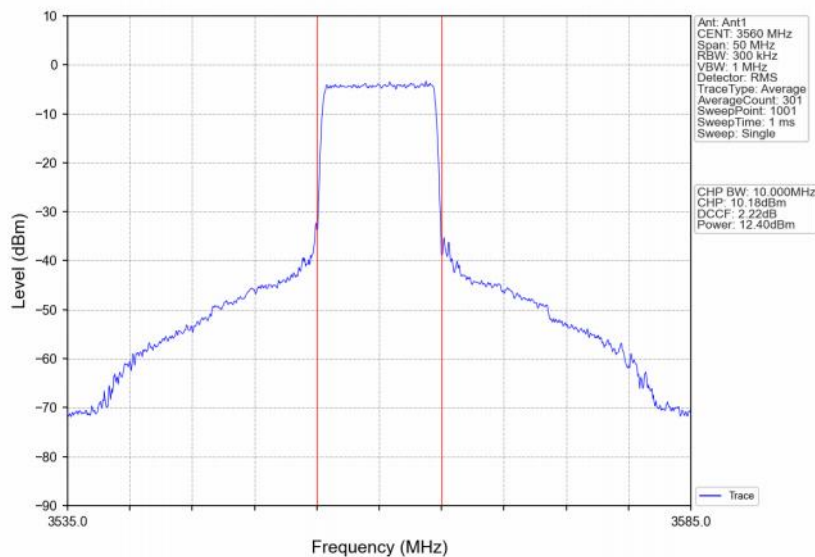
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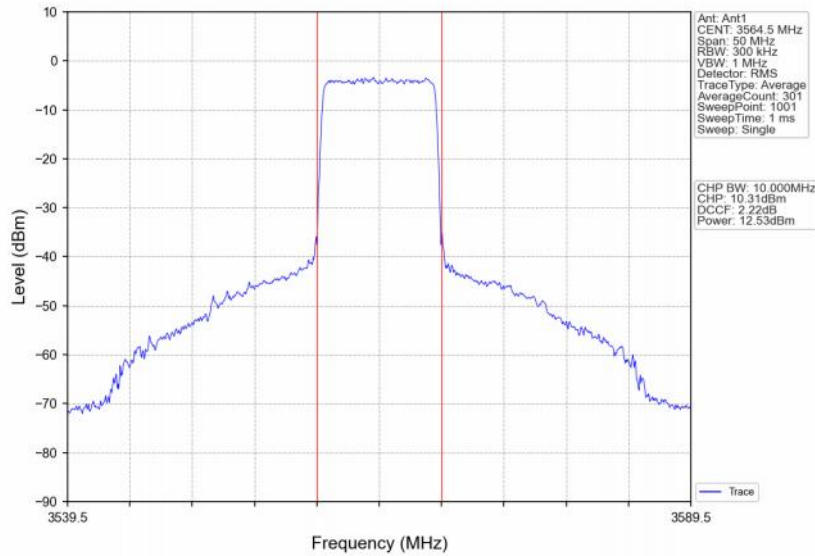


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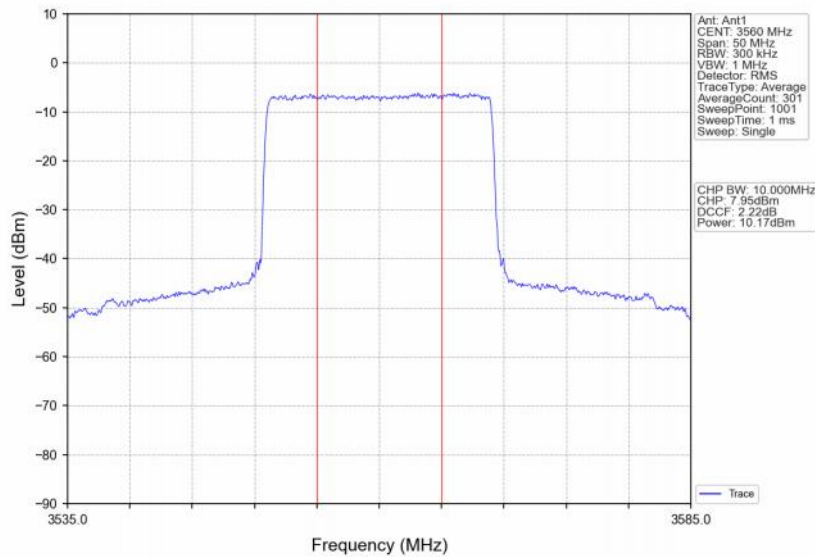
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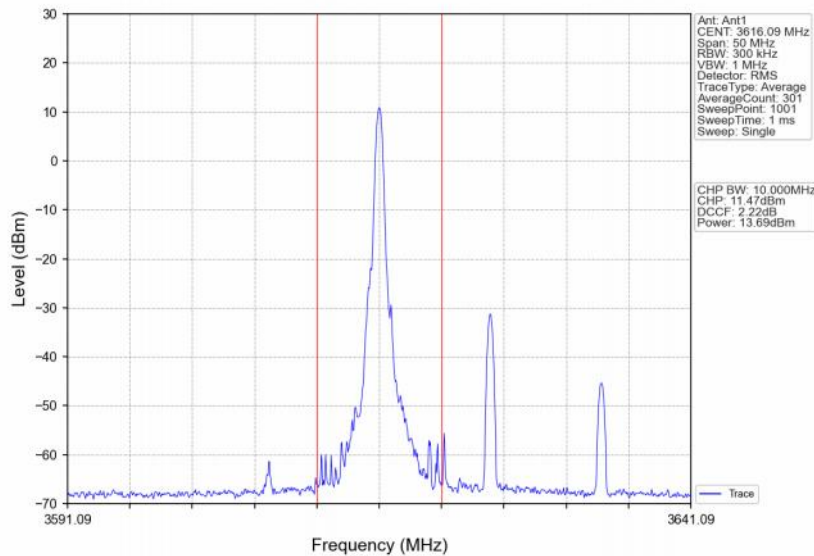


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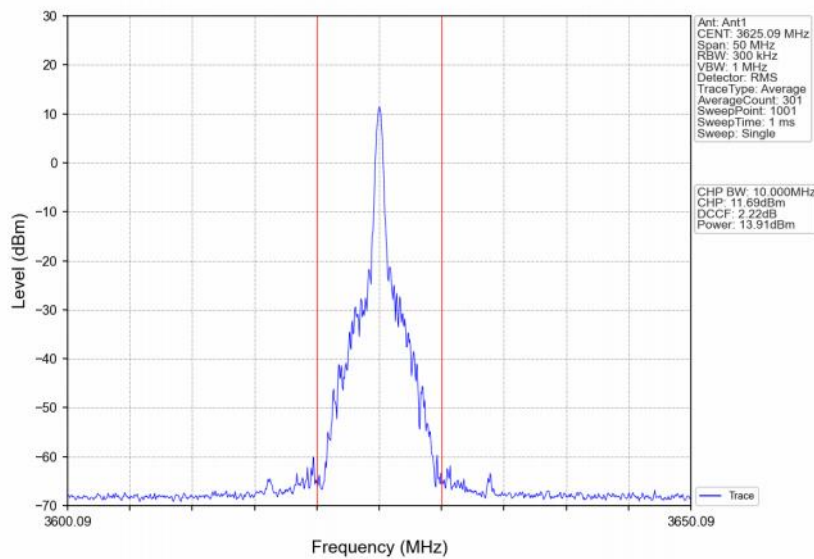
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Band48_20MHz_256QAM_MCH_3625MHz_RB_1_0_NTNV



Band48_20MHz_256QAM_MCH_3625MHz_RB_1_50_NTNV

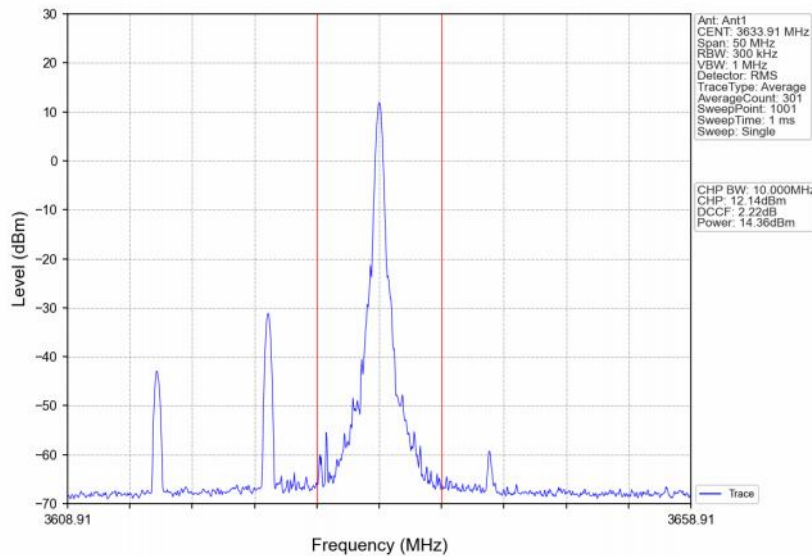


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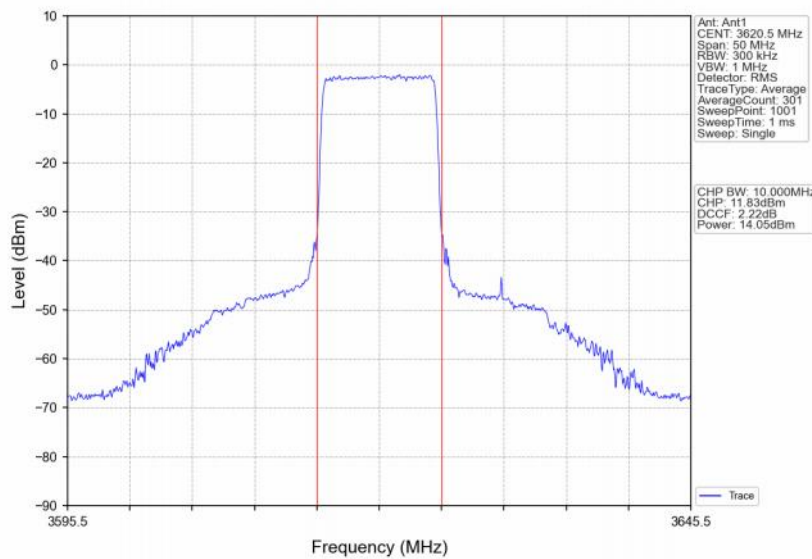
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Band48_20MHz_256QAM_MCH_3625MHz_RB_1_99_NTNV



Band48_20MHz_256QAM_MCH_3625MHz_RB_50_0_NTNV

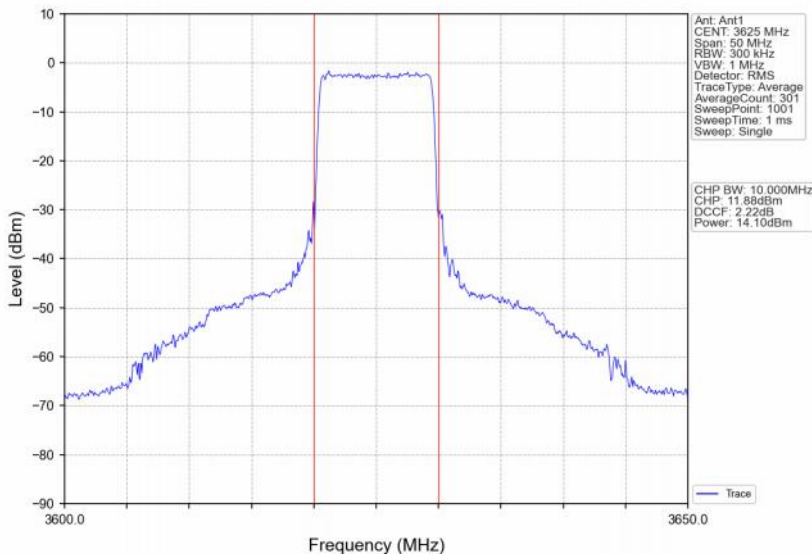


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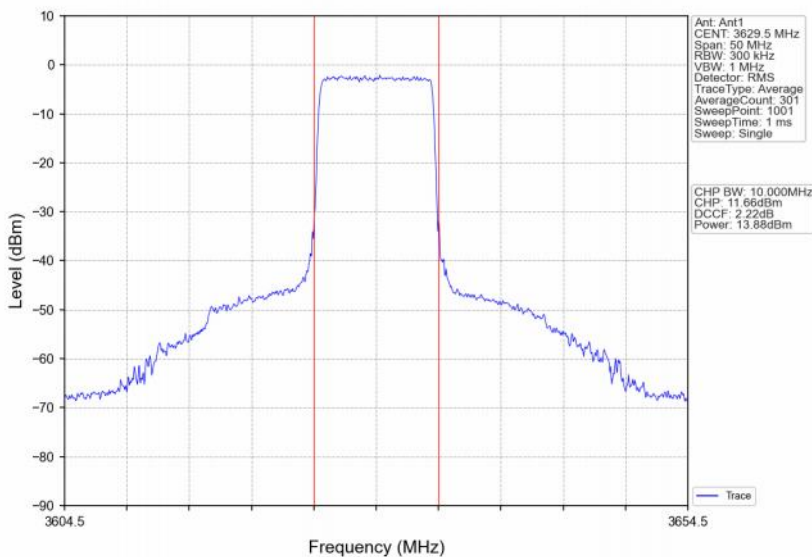
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Band48_20MHz_256QAM_MCH_3625MHz_RB_50_25_NTNV



Band48_20MHz_256QAM_MCH_3625MHz_RB_50_50_NTNV

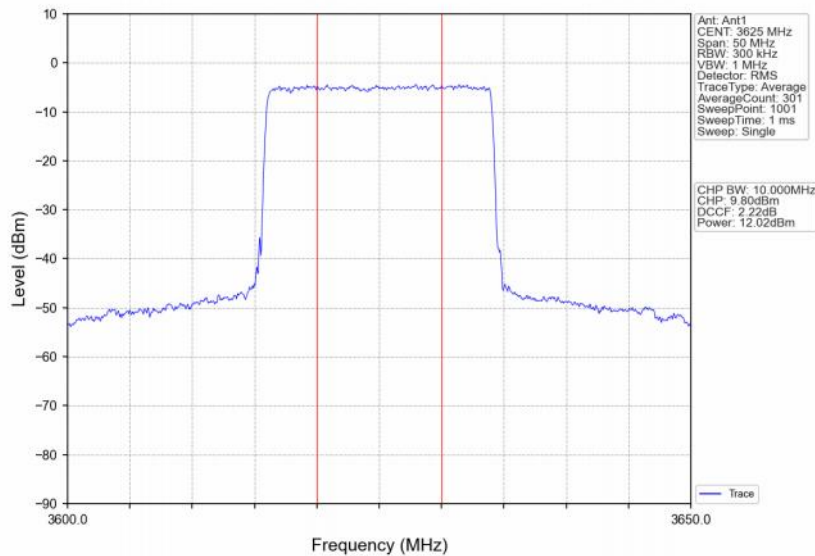


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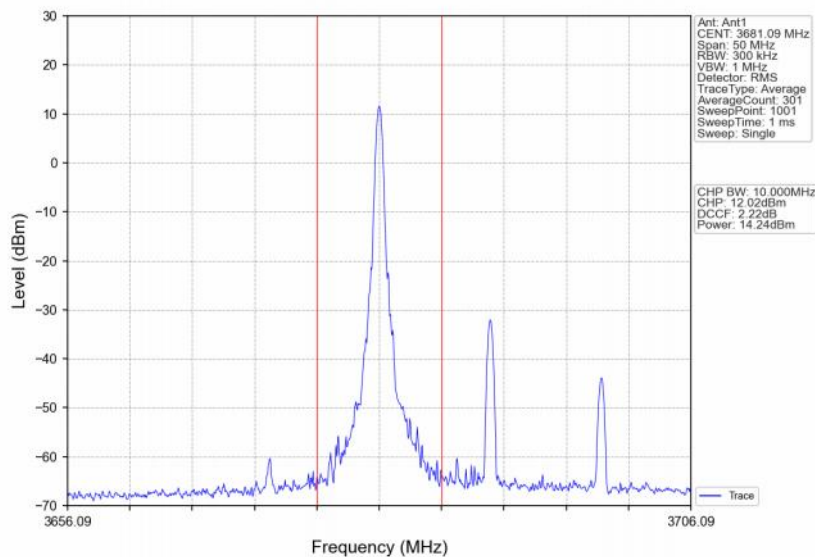
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Band48_20MHz_256QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_HCH_3690MHz_RB_1_0_NTNV

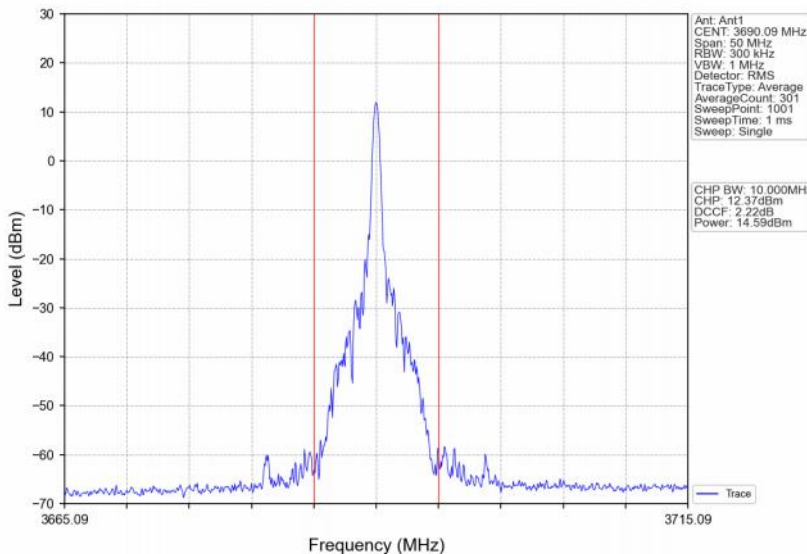


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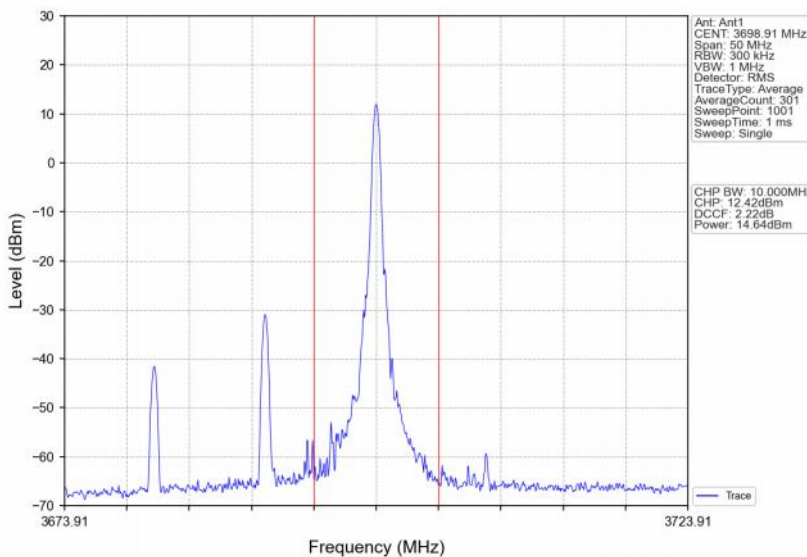
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Band48_20MHz_256QAM_HCH_3690MHz_RB_1_50_NTNV



Band48_20MHz_256QAM_HCH_3690MHz_RB_1_99_NTNV

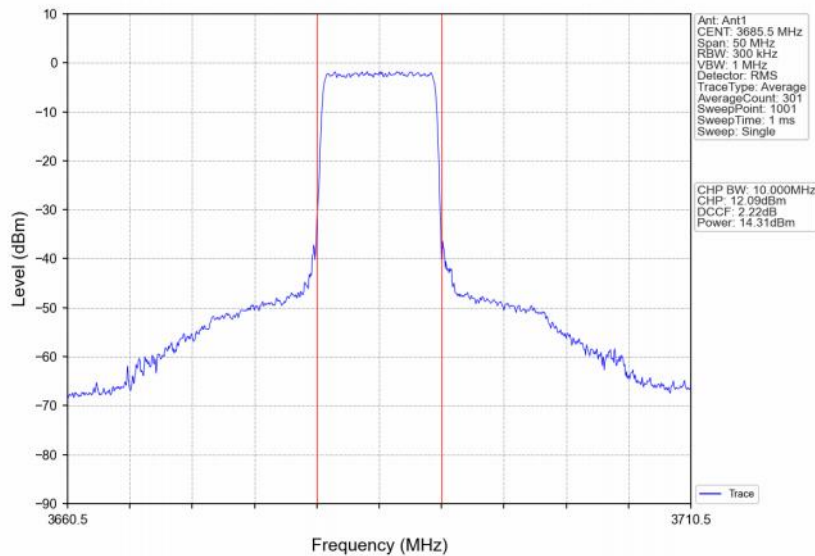


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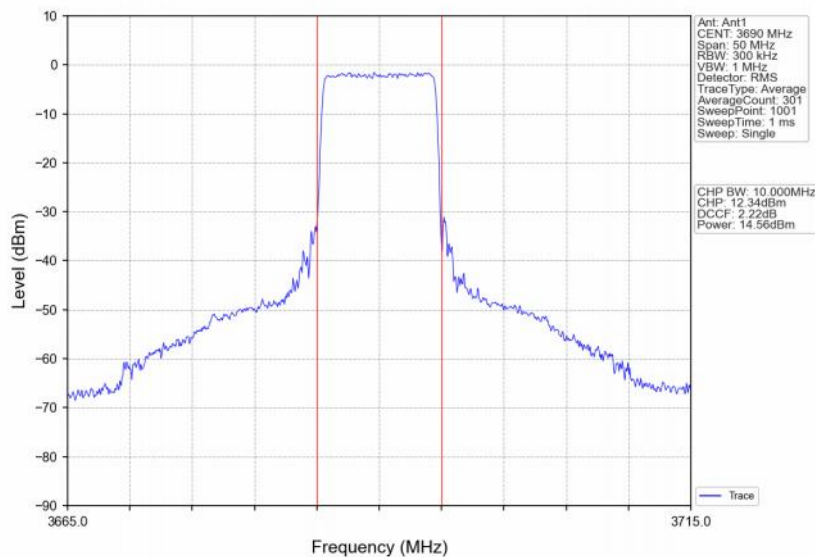
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Band48_20MHz_256QAM_HCH_3690MHz_RB_50_0_NTNV



Band48_20MHz_256QAM_HCH_3690MHz_RB_50_25_NTNV

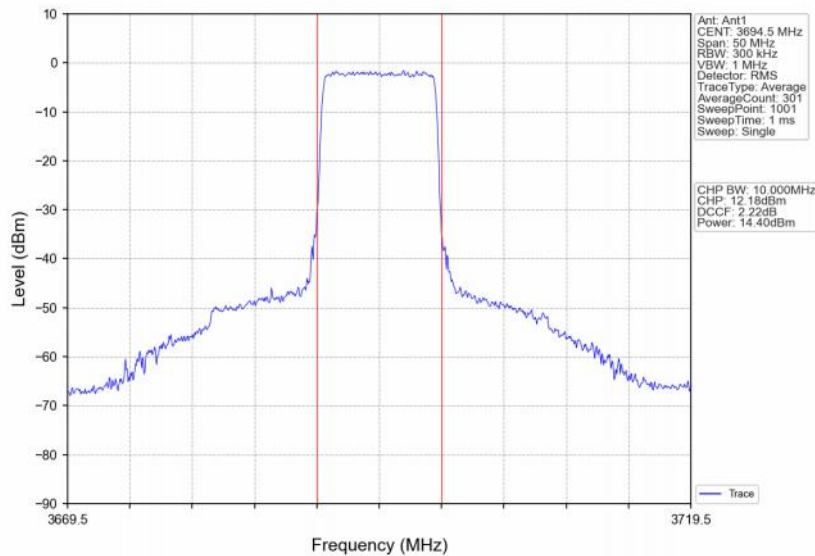


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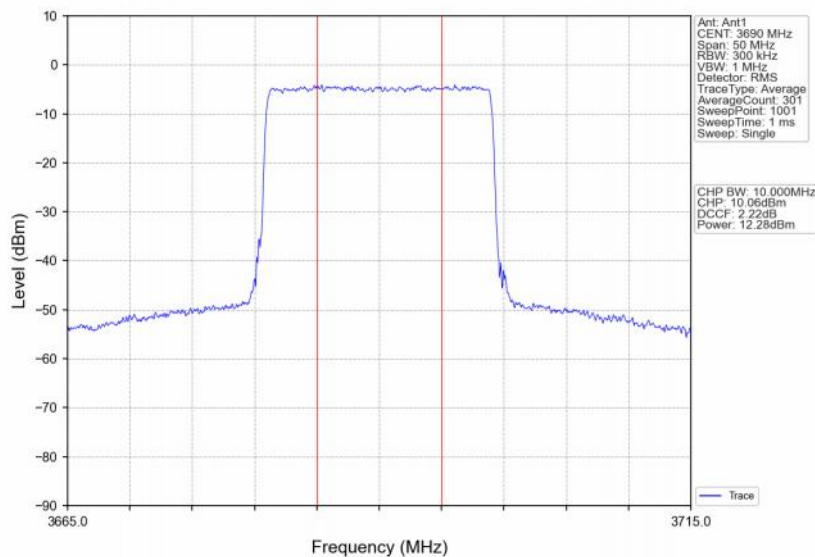
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Band48_20MHz_256QAM_HCH_3690MHz_RB_50_50_NTNV



Band48_20MHz_256QAM_HCH_3690MHz_RB_100_0_NTNV



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3. Frequency Stability

3.1 B48_5MHz

3.1.1 Test Result

Band: 48 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	3552.5	25	0	20	3.27	-0.143	0.0000	-2.5 to 2.5	Pass	
					3.85	0.129	0.0000	-2.5 to 2.5	Pass	
					4.43	-3.805	-0.0011	-2.5 to 2.5	Pass	
				-30	3.85	-0.286	-0.0001	-2.5 to 2.5	Pass	
					-20	3.85	-0.615	-0.0002	-2.5 to 2.5	Pass
						-10	3.85	-3.891	-0.0011	-2.5 to 2.5
				0	3.85	-3.247	-0.0009	-2.5 to 2.5	Pass	
					10	3.85	0.458	0.0001	-2.5 to 2.5	Pass
				30	3.85	-2.131	-0.0006	-2.5 to 2.5	Pass	
				40	3.85	-3.433	-0.0010	-2.5 to 2.5	Pass	
	50	3.85	-0.286	-0.0001	-2.5 to 2.5	Pass				
	3625	25	0	20	3.27	-2.046	-0.0006	-2.5 to 2.5	Pass	
					3.85	1.273	0.0004	-2.5 to 2.5	Pass	
					4.43	-0.744	-0.0002	-2.5 to 2.5	Pass	
				-30	3.85	-2.103	-0.0006	-2.5 to 2.5	Pass	
					-20	3.85	-3.061	-0.0008	-2.5 to 2.5	Pass
						-10	3.85	-4.020	-0.0011	-2.5 to 2.5
				0	3.85	-3.448	-0.0010	-2.5 to 2.5	Pass	
					10	3.85	-2.604	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.817	-0.0005	-2.5 to 2.5	Pass	
				40	3.85	-4.048	-0.0011	-2.5 to 2.5	Pass	
	50	3.85	-1.659	-0.0005	-2.5 to 2.5	Pass				
	3697.5	25	0	20	3.27	0.501	0.0001	-2.5 to 2.5	Pass	
					3.85	0.601	0.0002	-2.5 to 2.5	Pass	
					4.43	-0.443	-0.0001	-2.5 to 2.5	Pass	
				-30	3.85	-0.858	-0.0002	-2.5 to 2.5	Pass	
					-20	3.85	-3.190	-0.0009	-2.5 to 2.5	Pass
						-10	3.85	1.388	0.0004	-2.5 to 2.5
				0	3.85	0.386	0.0001	-2.5 to 2.5	Pass	
					10	3.85	0.229	0.0001	-2.5 to 2.5	Pass
30				3.85	0.787	0.0002	-2.5 to 2.5	Pass		
40				3.85	-0.544	-0.0001	-2.5 to 2.5	Pass		
50	3.85	0.687	0.0002	-2.5 to 2.5	Pass					
16QAM	3552.5	25	0	20	3.27	-0.286	-0.0001	-2.5 to 2.5	Pass	
					3.85	0.415	0.0001	-2.5 to 2.5	Pass	
					4.43	-2.890	-0.0008	-2.5 to 2.5	Pass	
				-30	3.85	-2.904	-0.0008	-2.5 to 2.5	Pass	
					-20	3.85	-3.262	-0.0009	-2.5 to 2.5	Pass
						-10	3.85	-1.059	-0.0003	-2.5 to 2.5
				0	3.85	-4.034	-0.0011	-2.5 to 2.5	Pass	
					10	3.85	-4.563	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-2.961	-0.0008	-2.5 to 2.5	Pass	
				40	3.85	-2.503	-0.0007	-2.5 to 2.5	Pass	
50	3.85	-0.987	-0.0003	-2.5 to 2.5	Pass					



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	3625	25	0	20	3.27	0.501	0.0001	-2.5 to 2.5	Pass	
					3.85	-3.805	-0.0010	-2.5 to 2.5	Pass	
					4.43	0.300	0.0001	-2.5 to 2.5	Pass	
				-30	3.85	-2.303	-0.0006	-2.5 to 2.5	Pass	
					-20	3.85	-0.601	-0.0002	-2.5 to 2.5	Pass
						-10	3.85	2.332	0.0006	-2.5 to 2.5
				0	3.85	0.286	0.0001	-2.5 to 2.5	Pass	
					10	3.85	-1.988	-0.0005	-2.5 to 2.5	Pass
					30	3.85	-1.073	-0.0003	-2.5 to 2.5	Pass
	3697.5	25	0	20	3.27	1.831	0.0005	-2.5 to 2.5	Pass	
					3.85	0.129	0.0000	-2.5 to 2.5	Pass	
					4.43	0.401	0.0001	-2.5 to 2.5	Pass	
				-30	3.85	1.431	0.0004	-2.5 to 2.5	Pass	
					-20	3.85	-2.990	-0.0008	-2.5 to 2.5	Pass
						-10	3.85	-0.658	-0.0002	-2.5 to 2.5
				0	3.85	-1.917	-0.0005	-2.5 to 2.5	Pass	
					10	3.85	0.086	0.0000	-2.5 to 2.5	Pass
					30	3.85	-1.431	-0.0004	-2.5 to 2.5	Pass
64QAM	3552.5	25	0	20	3.27	-4.535	-0.0013	-2.5 to 2.5	Pass	
					3.85	-2.847	-0.0008	-2.5 to 2.5	Pass	
					4.43	-0.715	-0.0002	-2.5 to 2.5	Pass	
				-30	3.85	-1.273	-0.0004	-2.5 to 2.5	Pass	
					-20	3.85	0.186	0.0001	-2.5 to 2.5	Pass
						-10	3.85	-1.502	-0.0004	-2.5 to 2.5
				0	3.85	0.529	0.0001	-2.5 to 2.5	Pass	
					10	3.85	1.016	0.0003	-2.5 to 2.5	Pass
					30	3.85	-3.576	-0.0010	-2.5 to 2.5	Pass
	3625	25	0	20	3.27	-0.157	0.0000	-2.5 to 2.5	Pass	
					3.85	-1.659	-0.0005	-2.5 to 2.5	Pass	
					4.43	0.086	0.0000	-2.5 to 2.5	Pass	
				-30	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass	
					-20	3.85	-1.345	-0.0004	-2.5 to 2.5	Pass
						-10	3.85	0.172	0.0000	-2.5 to 2.5
				0	3.85	0.100	0.0000	-2.5 to 2.5	Pass	
					10	3.85	-1.445	-0.0004	-2.5 to 2.5	Pass
					30	3.85	1.545	0.0004	-2.5 to 2.5	Pass
3697.5	25	0	20	3.27	1.073	0.0003	-2.5 to 2.5	Pass		
				3.85	1.101	0.0003	-2.5 to 2.5	Pass		
				4.43	0.701	0.0002	-2.5 to 2.5	Pass		
			-30	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass		
				-20	3.85	1.588	0.0004	-2.5 to 2.5	Pass	
					-10	3.85	-1.988	-0.0005	-2.5 to 2.5	Pass
			0	3.85	-1.802	-0.0005	-2.5 to 2.5	Pass		
				10	3.85	0.401	0.0001	-2.5 to 2.5	Pass	
				30	3.85	-1.245	-0.0003	-2.5 to 2.5	Pass	
			40	3.85	-0.815	-0.0002	-2.5 to 2.5	Pass		



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256QAM	3552.5	25	0	50	3.85	-0.973	-0.0003	-2.5 to 2.5	Pass
				20	3.27	-2.089	-0.0006	-2.5 to 2.5	Pass
					3.85	-3.705	-0.0010	-2.5 to 2.5	Pass
					4.43	-1.316	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-3.676	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.659	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-3.691	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-3.476	-0.0010	-2.5 to 2.5	Pass
				30	3.85	0.057	0.0000	-2.5 to 2.5	Pass
	40	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass			
	50	3.85	0.272	0.0001	-2.5 to 2.5	Pass			
	3625	25	0	20	3.27	-0.443	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.286	-0.0001	-2.5 to 2.5	Pass
					4.43	-1.988	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.373	0.0004	-2.5 to 2.5	Pass
				0	3.85	-2.360	-0.0007	-2.5 to 2.5	Pass
				10	3.85	0.572	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.632	-0.0007	-2.5 to 2.5	Pass
				40	3.85	1.516	0.0004	-2.5 to 2.5	Pass
	50	3.85	-1.702	-0.0005	-2.5 to 2.5	Pass			
	3697.5	25	0	20	3.27	1.473	0.0004	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0003	-2.5 to 2.5	Pass
					4.43	-2.375	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-1.016	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.772	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.415	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.043	0.0000	-2.5 to 2.5	Pass
10				3.85	0.100	0.0000	-2.5 to 2.5	Pass	
30				3.85	-2.904	-0.0008	-2.5 to 2.5	Pass	
40				3.85	-0.930	-0.0003	-2.5 to 2.5	Pass	
50	3.85	-2.775	-0.0008	-2.5 to 2.5	Pass				

3.2 B48_10MHz

3.2.1 Test Result

Band: 48 / Bandwidth: 10MHz																			
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict										
		Size	Offset				Result	Limit											
QPSK	3555	50	0	20	3.27	-3.433	-0.0010	-2.5 to 2.5	Pass										
										3.85	0.143	0.0000	-2.5 to 2.5	Pass					
															4.43	-2.246	-0.0006	-2.5 to 2.5	Pass
										-20	3.85	1.516	0.0004	-2.5 to 2.5	Pass				
																-10	3.85	-2.646	-0.0007
										0	3.85	-2.217	-0.0006	-2.5 to 2.5	Pass				
																10	3.85	-3.119	-0.0009
										30	3.85	1.988	0.0006	-2.5 to 2.5	Pass				
																40	3.85	-0.315	-0.0001



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	3625	50	0	50	3.85	-2.847	-0.0008	-2.5 to 2.5	Pass
				20	3.27	-3.819	-0.0011	-2.5 to 2.5	Pass
					3.85	-2.933	-0.0008	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-2.575	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.744	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-3.161	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-1.903	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-4.749	-0.0013	-2.5 to 2.5	Pass
	40	3.85	-1.960	-0.0005	-2.5 to 2.5	Pass			
	50	3.85	-3.004	-0.0008	-2.5 to 2.5	Pass			
	3695	50	0	20	3.27	-2.704	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.888	-0.0005	-2.5 to 2.5	Pass
					4.43	-2.446	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.801	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-2.346	-0.0006	-2.5 to 2.5	Pass
				0	3.85	0.472	0.0001	-2.5 to 2.5	Pass
				10	3.85	-3.004	-0.0008	-2.5 to 2.5	Pass
30				3.85	-1.431	-0.0004	-2.5 to 2.5	Pass	
40				3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
50	3.85	1.287	0.0003	-2.5 to 2.5	Pass				
16QAM	3555	50	0	20	3.27	-1.087	-0.0003	-2.5 to 2.5	Pass
					3.85	-3.276	-0.0009	-2.5 to 2.5	Pass
					4.43	-2.861	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.315	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.730	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-4.263	-0.0012	-2.5 to 2.5	Pass
				0	3.85	1.416	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.901	0.0003	-2.5 to 2.5	Pass
				40	3.85	1.431	0.0004	-2.5 to 2.5	Pass
	50	3.85	-2.632	-0.0007	-2.5 to 2.5	Pass			
	3625	50	0	20	3.27	-1.345	-0.0004	-2.5 to 2.5	Pass
					3.85	-1.273	-0.0004	-2.5 to 2.5	Pass
					4.43	-3.190	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.658	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-1.373	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-3.333	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-1.717	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-2.632	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.787	-0.0002	-2.5 to 2.5	Pass
40				3.85	-2.875	-0.0008	-2.5 to 2.5	Pass	
50	3.85	-0.873	-0.0002	-2.5 to 2.5	Pass				
3695	50	0	20	3.27	-2.475	-0.0007	-2.5 to 2.5	Pass	
				3.85	-2.460	-0.0007	-2.5 to 2.5	Pass	
				4.43	-0.329	-0.0001	-2.5 to 2.5	Pass	
			-30	3.85	-2.704	-0.0007	-2.5 to 2.5	Pass	
			-20	3.85	-1.974	-0.0005	-2.5 to 2.5	Pass	
			-10	3.85	-1.731	-0.0005	-2.5 to 2.5	Pass	
			0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
			10	3.85	-2.332	-0.0006	-2.5 to 2.5	Pass	
			30	3.85	2.418	0.0007	-2.5 to 2.5	Pass	



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				40	3.85	-0.601	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-2.074	-0.0006	-2.5 to 2.5	Pass
64QAM	3555	50	0	20	3.27	1.488	0.0004	-2.5 to 2.5	Pass
					3.85	0.358	0.0001	-2.5 to 2.5	Pass
					4.43	-2.260	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-3.934	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.187	0.0003	-2.5 to 2.5	Pass
				0	3.85	1.030	0.0003	-2.5 to 2.5	Pass
				10	3.85	-2.503	-0.0007	-2.5 to 2.5	Pass
				30	3.85	1.245	0.0004	-2.5 to 2.5	Pass
				40	3.85	-2.489	-0.0007	-2.5 to 2.5	Pass
	50	3.85	1.001	0.0003	-2.5 to 2.5	Pass			
	3625	50	0	20	3.27	-4.077	-0.0011	-2.5 to 2.5	Pass
					3.85	-2.618	-0.0007	-2.5 to 2.5	Pass
					4.43	0.572	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.472	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.401	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-3.905	-0.0011	-2.5 to 2.5	Pass
				10	3.85	0.572	0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.389	-0.0007	-2.5 to 2.5	Pass
40				3.85	-1.259	-0.0003	-2.5 to 2.5	Pass	
50	3.85	-2.303	-0.0006	-2.5 to 2.5	Pass				
3695	50	0	20	3.27	0.172	0.0000	-2.5 to 2.5	Pass	
				3.85	-0.157	0.0000	-2.5 to 2.5	Pass	
				4.43	0.558	0.0002	-2.5 to 2.5	Pass	
			-30	3.85	-1.473	-0.0004	-2.5 to 2.5	Pass	
			-20	3.85	-0.043	0.0000	-2.5 to 2.5	Pass	
			-10	3.85	0.315	0.0001	-2.5 to 2.5	Pass	
			0	3.85	-0.486	-0.0001	-2.5 to 2.5	Pass	
			10	3.85	-1.488	-0.0004	-2.5 to 2.5	Pass	
			30	3.85	0.858	0.0002	-2.5 to 2.5	Pass	
			40	3.85	1.001	0.0003	-2.5 to 2.5	Pass	
50	3.85	0.801	0.0002	-2.5 to 2.5	Pass				
256QAM	3555	50	0	20	3.27	-3.176	-0.0009	-2.5 to 2.5	Pass
					3.85	0.057	0.0000	-2.5 to 2.5	Pass
					4.43	2.546	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-2.775	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.429	0.0001	-2.5 to 2.5	Pass
				0	3.85	-2.689	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.386	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-3.133	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-3.090	-0.0009	-2.5 to 2.5	Pass
	50	3.85	0.472	0.0001	-2.5 to 2.5	Pass			
	3625	50	0	20	3.27	-0.515	-0.0001	-2.5 to 2.5	Pass
					3.85	-3.762	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.705	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	1.016	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.845	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-4.921	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-2.561	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0001	-2.5 to 2.5	Pass



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3695	50	0	30	3.85	-1.373	-0.0004	-2.5 to 2.5	Pass
			40	3.85	-2.604	-0.0007	-2.5 to 2.5	Pass
			50	3.85	0.157	0.0000	-2.5 to 2.5	Pass
			20	3.27	1.545	0.0004	-2.5 to 2.5	Pass
				3.85	-0.415	-0.0001	-2.5 to 2.5	Pass
				4.43	-0.715	-0.0002	-2.5 to 2.5	Pass
			-30	3.85	0.358	0.0001	-2.5 to 2.5	Pass
			-20	3.85	-1.516	-0.0004	-2.5 to 2.5	Pass
			-10	3.85	-0.558	-0.0002	-2.5 to 2.5	Pass
			0	3.85	-1.402	-0.0004	-2.5 to 2.5	Pass
			10	3.85	2.375	0.0006	-2.5 to 2.5	Pass
			30	3.85	-2.661	-0.0007	-2.5 to 2.5	Pass
			40	3.85	-2.747	-0.0007	-2.5 to 2.5	Pass
			50	3.85	-0.787	-0.0002	-2.5 to 2.5	Pass

3.3 B48_15MHz

3.3.1 Test Result

Band: 48 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3557.5	75	0	20	3.27	-4.578	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.873	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.818	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	-3.262	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.605	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-3.576	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.830	0.0002	-2.5 to 2.5	Pass
				30	3.85	-1.245	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-4.034	-0.0011	-2.5 to 2.5	Pass
				50	3.85	0.873	0.0002	-2.5 to 2.5	Pass
				3625	75	0	20	3.27	-1.945
	3.85	-2.847	-0.0008					-2.5 to 2.5	Pass
	4.43	-0.143	0.0000					-2.5 to 2.5	Pass
	-30	3.85	-3.347				-0.0009	-2.5 to 2.5	Pass
	-20	3.85	0.358				0.0001	-2.5 to 2.5	Pass
	-10	3.85	-1.245				-0.0003	-2.5 to 2.5	Pass
	0	3.85	-0.930				-0.0003	-2.5 to 2.5	Pass
	10	3.85	-2.904				-0.0008	-2.5 to 2.5	Pass
	30	3.85	-3.405				-0.0009	-2.5 to 2.5	Pass
	40	3.85	-0.372				-0.0001	-2.5 to 2.5	Pass
	50	3.85	-1.001				-0.0003	-2.5 to 2.5	Pass
	3692.5	75	0				20	3.27	-2.418
				3.85	-0.386	-0.0001		-2.5 to 2.5	Pass
				4.43	-1.330	-0.0004		-2.5 to 2.5	Pass
				-30	3.85	-1.245	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.044	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.730	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-4.063	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-2.961	-0.0008	-2.5 to 2.5	Pass



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				30	3.85	-0.129	0.0000	-2.5 to 2.5	Pass	
				40	3.85	-0.086	0.0000	-2.5 to 2.5	Pass	
				50	3.85	-1.645	-0.0004	-2.5 to 2.5	Pass	
16QAM	3557.5	75	0	20	3.27	-0.987	-0.0003	-2.5 to 2.5	Pass	
					3.85	-0.329	-0.0001	-2.5 to 2.5	Pass	
					4.43	-3.562	-0.0010	-2.5 to 2.5	Pass	
				-30	3.85	-0.587	-0.0002	-2.5 to 2.5	Pass	
					-20	3.85	-1.416	-0.0004	-2.5 to 2.5	Pass
						-10	3.85	-0.057	0.0000	-2.5 to 2.5
				0	3.85	-3.376	-0.0009	-2.5 to 2.5	Pass	
					10	3.85	-3.233	-0.0009	-2.5 to 2.5	Pass
					30	3.85	-4.334	-0.0012	-2.5 to 2.5	Pass
					40	3.85	-1.044	-0.0003	-2.5 to 2.5	Pass
					50	3.85	-2.718	-0.0008	-2.5 to 2.5	Pass
					3625	75	0	20	3.27	-4.077
	3.85	-3.033	-0.0008						-2.5 to 2.5	Pass
	4.43	-1.359	-0.0004						-2.5 to 2.5	Pass
	-30	3.85	-2.418					-0.0007	-2.5 to 2.5	Pass
		-20	3.85	-0.801				-0.0002	-2.5 to 2.5	Pass
			-10	3.85				-2.503	-0.0007	-2.5 to 2.5
	0	3.85	-1.287	-0.0004				-2.5 to 2.5	Pass	
		10	3.85	-5.422				-0.0015	-2.5 to 2.5	Pass
		30	3.85	-3.662				-0.0010	-2.5 to 2.5	Pass
		40	3.85	-1.388				-0.0004	-2.5 to 2.5	Pass
		50	3.85	-0.858				-0.0002	-2.5 to 2.5	Pass
		3692.5	75	0				20	3.27	-2.289
					3.85	0.157	0.0000		-2.5 to 2.5	Pass
4.43					-0.958	-0.0003	-2.5 to 2.5		Pass	
-30					3.85	-2.832	-0.0008	-2.5 to 2.5	Pass	
	-20				3.85	-1.845	-0.0005	-2.5 to 2.5	Pass	
					-10	3.85	-1.602	-0.0004	-2.5 to 2.5	Pass
0	3.85				-0.601	-0.0002	-2.5 to 2.5	Pass		
	10				3.85	-3.505	-0.0009	-2.5 to 2.5	Pass	
	30				3.85	-1.702	-0.0005	-2.5 to 2.5	Pass	
	40				3.85	-1.087	-0.0003	-2.5 to 2.5	Pass	
	50				3.85	-2.317	-0.0006	-2.5 to 2.5	Pass	
	64QAM				3557.5	75	0	20	3.27	-3.490
		3.85	-3.276	-0.0009					-2.5 to 2.5	Pass
		4.43	-4.506	-0.0013					-2.5 to 2.5	Pass
		-30	3.85	-0.873				-0.0002	-2.5 to 2.5	Pass
-20			3.85	-0.486				-0.0001	-2.5 to 2.5	Pass
			-10	3.85				-0.029	0.0000	-2.5 to 2.5
0		3.85	-2.904	-0.0008				-2.5 to 2.5	Pass	
		10	3.85	-3.705				-0.0010	-2.5 to 2.5	Pass
		30	3.85	-3.719				-0.0010	-2.5 to 2.5	Pass
		40	3.85	0.043				0.0000	-2.5 to 2.5	Pass
		50	3.85	-2.546				-0.0007	-2.5 to 2.5	Pass
		3625	75	0				20	3.27	0.801
					3.85	-1.230	-0.0003		-2.5 to 2.5	Pass
					4.43	0.486	0.0001		-2.5 to 2.5	Pass
					-30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
-20						3.85	-2.332	-0.0006	-2.5 to 2.5	Pass
						-10	3.85	-2.232	-0.0006	-2.5 to 2.5
0					3.85	-4.106	-0.0011	-2.5 to 2.5	Pass	



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	3692.5	75	0	10	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass			
				30	3.85	-3.405	-0.0009	-2.5 to 2.5	Pass			
				40	3.85	-3.734	-0.0010	-2.5 to 2.5	Pass			
				50	3.85	-3.877	-0.0011	-2.5 to 2.5	Pass			
				20	3.27	1.173	0.0003	-2.5 to 2.5	Pass			
					3.85	0.758	0.0002	-2.5 to 2.5	Pass			
					4.43	-2.060	-0.0006	-2.5 to 2.5	Pass			
				-30	3.85	-2.890	-0.0008	-2.5 to 2.5	Pass			
				-20	3.85	-2.775	-0.0008	-2.5 to 2.5	Pass			
				-10	3.85	-1.073	-0.0003	-2.5 to 2.5	Pass			
				0	3.85	-2.875	-0.0008	-2.5 to 2.5	Pass			
				10	3.85	-0.572	-0.0002	-2.5 to 2.5	Pass			
				30	3.85	-2.131	-0.0006	-2.5 to 2.5	Pass			
				40	3.85	0.873	0.0002	-2.5 to 2.5	Pass			
50	3.85	-2.189	-0.0006	-2.5 to 2.5	Pass							
256QAM	3557.5	75	0	20	3.27	-3.304	-0.0009	-2.5 to 2.5	Pass			
					3.85	-3.877	-0.0011	-2.5 to 2.5	Pass			
					4.43	-4.349	-0.0012	-2.5 to 2.5	Pass			
				-30	3.85	-2.990	-0.0008	-2.5 to 2.5	Pass			
				-20	3.85	-0.100	0.0000	-2.5 to 2.5	Pass			
				-10	3.85	0.143	0.0000	-2.5 to 2.5	Pass			
				0	3.85	-0.930	-0.0003	-2.5 to 2.5	Pass			
				10	3.85	-0.501	-0.0001	-2.5 to 2.5	Pass			
				30	3.85	-3.204	-0.0009	-2.5 to 2.5	Pass			
				40	3.85	-0.987	-0.0003	-2.5 to 2.5	Pass			
				50	3.85	-2.217	-0.0006	-2.5 to 2.5	Pass			
				3625	75	0	20	3.27	-4.277	-0.0012	-2.5 to 2.5	Pass
								3.85	-0.072	0.0000	-2.5 to 2.5	Pass
								4.43	0.672	0.0002	-2.5 to 2.5	Pass
	-30	3.85	1.431				0.0004	-2.5 to 2.5	Pass			
	-20	3.85	-2.661				-0.0007	-2.5 to 2.5	Pass			
	-10	3.85	-2.832				-0.0008	-2.5 to 2.5	Pass			
	0	3.85	0.257				0.0001	-2.5 to 2.5	Pass			
	10	3.85	-3.004	-0.0008	-2.5 to 2.5	Pass						
	30	3.85	0.329	0.0001	-2.5 to 2.5	Pass						
	40	3.85	0.901	0.0002	-2.5 to 2.5	Pass						
50	3.85	-4.778	-0.0013	-2.5 to 2.5	Pass							
3692.5	75	0	20	3.27	-0.343	-0.0001	-2.5 to 2.5	Pass				
				3.85	-3.190	-0.0009	-2.5 to 2.5	Pass				
				4.43	-3.848	-0.0010	-2.5 to 2.5	Pass				
			-30	3.85	-4.377	-0.0012	-2.5 to 2.5	Pass				
			-20	3.85	-0.601	-0.0002	-2.5 to 2.5	Pass				
			-10	3.85	-1.488	-0.0004	-2.5 to 2.5	Pass				
			0	3.85	-2.675	-0.0007	-2.5 to 2.5	Pass				
			10	3.85	-2.060	-0.0006	-2.5 to 2.5	Pass				
			30	3.85	1.016	0.0003	-2.5 to 2.5	Pass				
			40	3.85	-1.702	-0.0005	-2.5 to 2.5	Pass				
50	3.85	-1.373	-0.0004	-2.5 to 2.5	Pass							

3.4 B48_20MHz

3.4.1 Test Result



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Band: 48 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	3560	100	0	20	3.27	-1.030	-0.0003	-2.5 to 2.5	Pass	
					3.85	-0.386	-0.0001	-2.5 to 2.5	Pass	
					4.43	-0.515	-0.0001	-2.5 to 2.5	Pass	
				-30	3.85	-1.445	-0.0004	-2.5 to 2.5	Pass	
					-20	3.85	-3.548	-0.0010	-2.5 to 2.5	Pass
					-10	3.85	-4.249	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-4.778	-0.0013	-2.5 to 2.5	Pass	
					10	3.85	-4.892	-0.0014	-2.5 to 2.5	Pass
					30	3.85	-6.380	-0.0018	-2.5 to 2.5	Pass
	40	3.85	-0.272	-0.0001	-2.5 to 2.5	Pass				
		50	3.85	-4.091	-0.0011	-2.5 to 2.5	Pass			
		20	3.27	-0.272	-0.0001	-2.5 to 2.5	Pass			
	3.85		1.488	0.0004	-2.5 to 2.5	Pass				
	4.43		-0.315	-0.0001	-2.5 to 2.5	Pass				
	-30	3.85	-3.533	-0.0010	-2.5 to 2.5	Pass				
		-20	3.85	-3.748	-0.0010	-2.5 to 2.5	Pass			
		-10	3.85	-2.561	-0.0007	-2.5 to 2.5	Pass			
	0	3.85	-5.536	-0.0015	-2.5 to 2.5	Pass				
		10	3.85	0.687	0.0002	-2.5 to 2.5	Pass			
		30	3.85	0.687	0.0002	-2.5 to 2.5	Pass			
	40	3.85	-3.548	-0.0010	-2.5 to 2.5	Pass				
		50	3.85	0.243	0.0001	-2.5 to 2.5	Pass			
		20	3.27	-0.973	-0.0003	-2.5 to 2.5	Pass			
	3.85		-0.658	-0.0002	-2.5 to 2.5	Pass				
4.43	-0.257		-0.0001	-2.5 to 2.5	Pass					
-30	3.85	-2.031	-0.0006	-2.5 to 2.5	Pass					
	-20	3.85	-1.717	-0.0005	-2.5 to 2.5	Pass				
	-10	3.85	-0.873	-0.0002	-2.5 to 2.5	Pass				
0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass					
	10	3.85	-2.060	-0.0006	-2.5 to 2.5	Pass				
	30	3.85	-0.730	-0.0002	-2.5 to 2.5	Pass				
40	3.85	-0.730	-0.0002	-2.5 to 2.5	Pass					
	50	3.85	-3.490	-0.0009	-2.5 to 2.5	Pass				
	20	3.27	-1.030	-0.0003	-2.5 to 2.5	Pass				
3.85		-0.644	-0.0002	-2.5 to 2.5	Pass					
4.43		-2.389	-0.0007	-2.5 to 2.5	Pass					
-30	3.85	-5.164	-0.0015	-2.5 to 2.5	Pass					
	-20	3.85	-3.190	-0.0009	-2.5 to 2.5	Pass				
	-10	3.85	-4.864	-0.0014	-2.5 to 2.5	Pass				
0	3.85	1.059	0.0003	-2.5 to 2.5	Pass					
	10	3.85	-3.176	-0.0009	-2.5 to 2.5	Pass				
	30	3.85	-3.963	-0.0011	-2.5 to 2.5	Pass				
40	3.85	-4.034	-0.0011	-2.5 to 2.5	Pass					
	50	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass				
	20	3.27	-2.446	-0.0007	-2.5 to 2.5	Pass				
3.85		-3.619	-0.0010	-2.5 to 2.5	Pass					
4.43		-0.515	-0.0001	-2.5 to 2.5	Pass					
-30	3.85	-4.334	-0.0012	-2.5 to 2.5	Pass					
	-20	3.85	-3.376	-0.0009	-2.5 to 2.5	Pass				
	-10	3.85	-0.057	0.0000	-2.5 to 2.5	Pass				
0	3.85	-3.333	-0.0009	-2.5 to 2.5	Pass					



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				10	3.85	-1.459	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.601	0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-2.532	-0.0007	-2.5 to 2.5	Pass
				20	3.27	-2.632	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.587	-0.0002	-2.5 to 2.5	Pass
					4.43	0.744	0.0002	-2.5 to 2.5	Pass
				-30	3.85	1.316	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-2.646	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.143	0.0000	-2.5 to 2.5	Pass
				10	3.85	-1.473	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-2.546	-0.0007	-2.5 to 2.5	Pass
50	3.85	-0.443	-0.0001	-2.5 to 2.5	Pass				
64QAM	3560	100	0	20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-6.452	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.161	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-2.017	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-3.462	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-3.319	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-1.373	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.458	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-3.405	-0.0010	-2.5 to 2.5	Pass
				20	3.27	-2.632	-0.0007	-2.5 to 2.5	Pass
					3.85	-3.519	-0.0010	-2.5 to 2.5	Pass
					4.43	-1.345	-0.0004	-2.5 to 2.5	Pass
-30	3.85	-2.918	-0.0008	-2.5 to 2.5	Pass				
-20	3.85	-1.903	-0.0005	-2.5 to 2.5	Pass				
-10	3.85	-1.488	-0.0004	-2.5 to 2.5	Pass				
0	3.85	-1.130	-0.0003	-2.5 to 2.5	Pass				
10	3.85	-4.678	-0.0013	-2.5 to 2.5	Pass				
30	3.85	-2.847	-0.0008	-2.5 to 2.5	Pass				
40	3.85	-2.561	-0.0007	-2.5 to 2.5	Pass				
50	3.85	-0.873	-0.0002	-2.5 to 2.5	Pass				
20	3.27	-2.875	-0.0008	-2.5 to 2.5	Pass				
	3.85	-1.001	-0.0003	-2.5 to 2.5	Pass				
	4.43	0.458	0.0001	-2.5 to 2.5	Pass				
-30	3.85	-2.246	-0.0006	-2.5 to 2.5	Pass				
-20	3.85	-0.772	-0.0002	-2.5 to 2.5	Pass				
-10	3.85	1.345	0.0004	-2.5 to 2.5	Pass				
0	3.85	-2.289	-0.0006	-2.5 to 2.5	Pass				
10	3.85	-3.648	-0.0010	-2.5 to 2.5	Pass				
30	3.85	-0.687	-0.0002	-2.5 to 2.5	Pass				
40	3.85	1.016	0.0003	-2.5 to 2.5	Pass				
50	3.85	1.202	0.0003	-2.5 to 2.5	Pass				
256QAM	3560	100	0	20	3.27	0.215	0.0001	-2.5 to 2.5	Pass
					3.85	-0.215	-0.0001	-2.5 to 2.5	Pass
					4.43	-2.518	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-4.148	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-3.605	-0.0010	-2.5 to 2.5	Pass
-10	3.85	-0.415	-0.0001	-2.5 to 2.5	Pass				



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3625	100	0	0	3.85	-4.478	-0.0013	-2.5 to 2.5	Pass
			10	3.85	-3.977	-0.0011	-2.5 to 2.5	Pass
			30	3.85	-2.861	-0.0008	-2.5 to 2.5	Pass
			40	3.85	-5.064	-0.0014	-2.5 to 2.5	Pass
			50	3.85	-4.821	-0.0014	-2.5 to 2.5	Pass
	20	100	0	3.27	-2.661	-0.0007	-2.5 to 2.5	Pass
				3.85	-3.877	-0.0011	-2.5 to 2.5	Pass
				4.43	-3.748	-0.0010	-2.5 to 2.5	Pass
		-30	3.85	-3.548	-0.0010	-2.5 to 2.5	Pass	
		-20	3.85	-4.606	-0.0013	-2.5 to 2.5	Pass	
		-10	3.85	-1.144	-0.0003	-2.5 to 2.5	Pass	
		0	3.85	-2.174	-0.0006	-2.5 to 2.5	Pass	
		10	3.85	0.644	0.0002	-2.5 to 2.5	Pass	
		30	3.85	1.388	0.0004	-2.5 to 2.5	Pass	
		40	3.85	1.173	0.0003	-2.5 to 2.5	Pass	
50	3.85	-0.443	-0.0001	-2.5 to 2.5	Pass			
3690	100	0	3.27	-0.973	-0.0003	-2.5 to 2.5	Pass	
			3.85	-0.343	-0.0001	-2.5 to 2.5	Pass	
			4.43	-1.216	-0.0003	-2.5 to 2.5	Pass	
			-30	3.85	-1.631	-0.0004	-2.5 to 2.5	Pass
			-20	3.85	-1.574	-0.0004	-2.5 to 2.5	Pass
	-10	3.85	-0.887	-0.0002	-2.5 to 2.5	Pass		
	0	3.85	-0.873	-0.0002	-2.5 to 2.5	Pass		
	10	3.85	0.129	0.0000	-2.5 to 2.5	Pass		
	30	3.85	1.302	0.0004	-2.5 to 2.5	Pass		
	40	3.85	-0.873	-0.0002	-2.5 to 2.5	Pass		
	50	3.85	-2.875	-0.0008	-2.5 to 2.5	Pass		

4. 99% & 26dB Bandwidth

4.1 Band48_OBW

4.1.1 Test Result

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict	
			Size	Offset	Result		
5	QPSK	3552.5	25	0	4.583	Pass	
		3625	25	0	4.560	Pass	
		3697.5	25	0	4.546	Pass	
	16QAM	3552.5	25	0	4.568	Pass	
		3625	25	0	4.567	Pass	
		3697.5	25	0	4.549	Pass	
	64QAM	3552.5	25	0	4.570	Pass	
		3625	25	0	4.561	Pass	
		3697.5	25	0	4.575	Pass	
	256QAM	3552.5	25	0	4.584	Pass	
		3625	25	0	4.573	Pass	
		3697.5	25	0	4.574	Pass	
10	QPSK	3555	50	0	9.077	Pass	
		3625	50	0	9.052	Pass	
		3695	50	0	9.051	Pass	



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	16QAM	3555	50	0	9.089	Pass
		3625	50	0	9.058	Pass
		3695	50	0	9.065	Pass
	64QAM	3555	50	0	9.096	Pass
		3625	50	0	9.086	Pass
		3695	50	0	9.077	Pass
	256QAM	3555	50	0	9.108	Pass
		3625	50	0	9.072	Pass
		3695	50	0	9.081	Pass
15	QPSK	3557.5	75	0	13.602	Pass
		3625	75	0	13.622	Pass
		3692.5	75	0	13.559	Pass
	16QAM	3557.5	75	0	13.635	Pass
		3625	75	0	13.555	Pass
		3692.5	75	0	13.597	Pass
	64QAM	3557.5	75	0	13.630	Pass
		3625	75	0	13.678	Pass
		3692.5	75	0	13.587	Pass
	256QAM	3557.5	75	0	13.627	Pass
		3625	75	0	13.580	Pass
		3692.5	75	0	13.547	Pass
20	QPSK	3560	100	0	18.102	Pass
		3625	100	0	18.069	Pass
		3690	100	0	18.101	Pass
	16QAM	3560	100	0	18.107	Pass
		3625	100	0	18.047	Pass
		3690	100	0	18.077	Pass
	64QAM	3560	100	0	18.088	Pass
		3625	100	0	18.026	Pass
		3690	100	0	18.087	Pass
	256QAM	3560	100	0	18.115	Pass
		3625	100	0	18.065	Pass
		3690	100	0	18.089	Pass

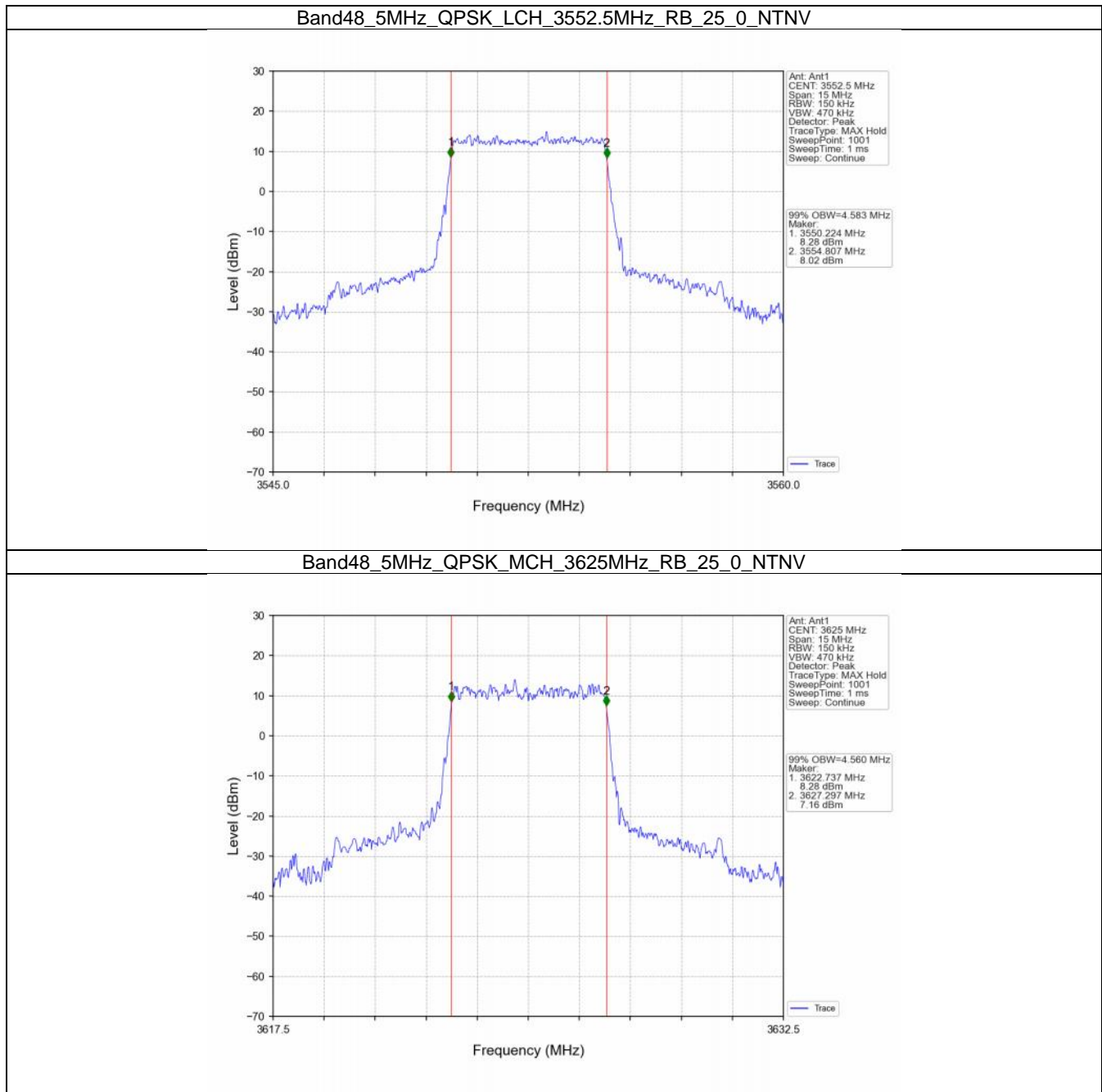


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4.1.2 Test Graph

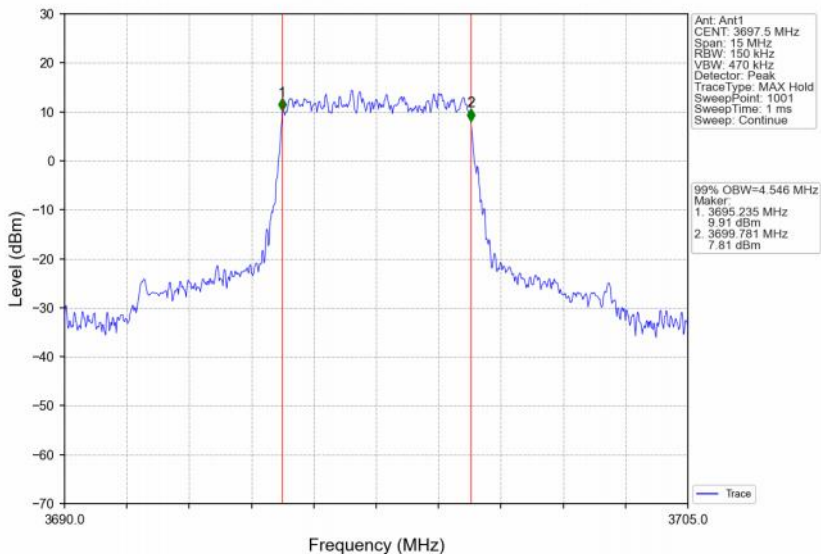


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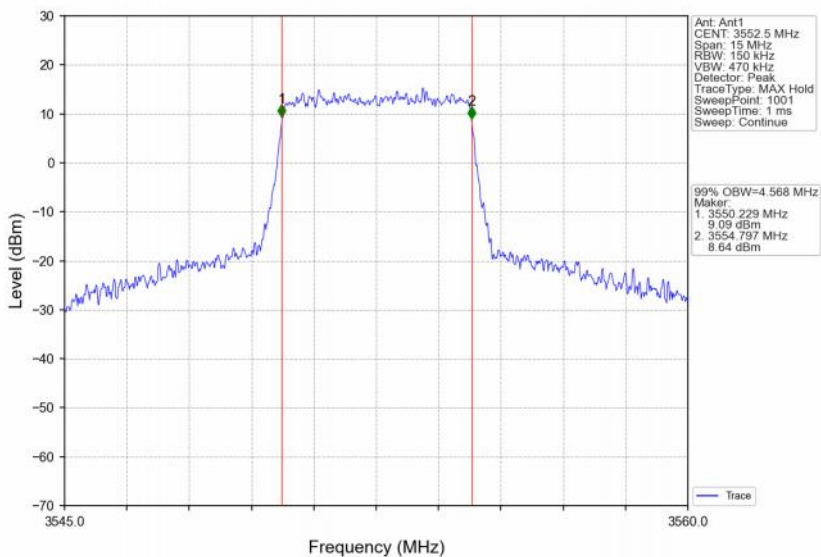
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV

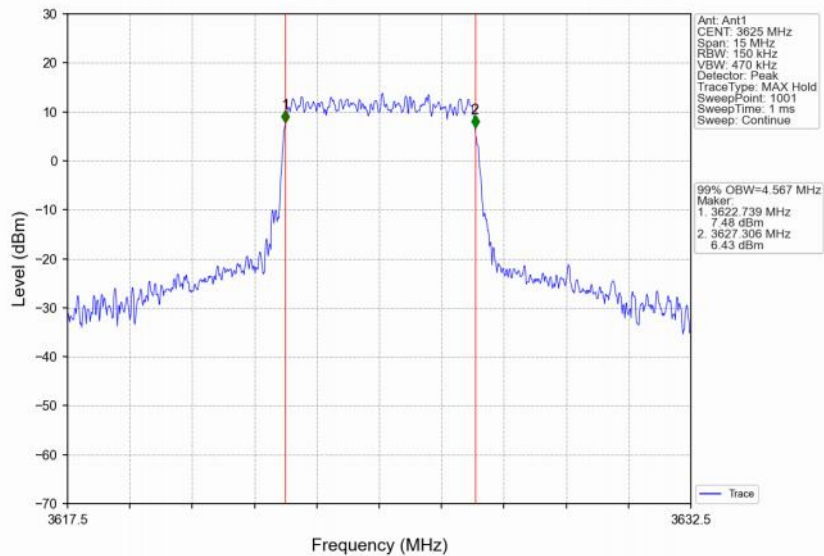


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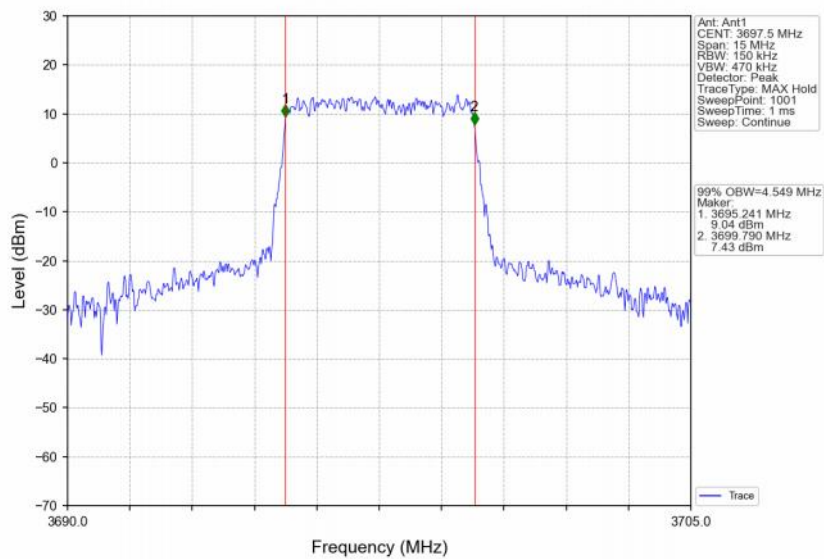
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Band48_5MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV

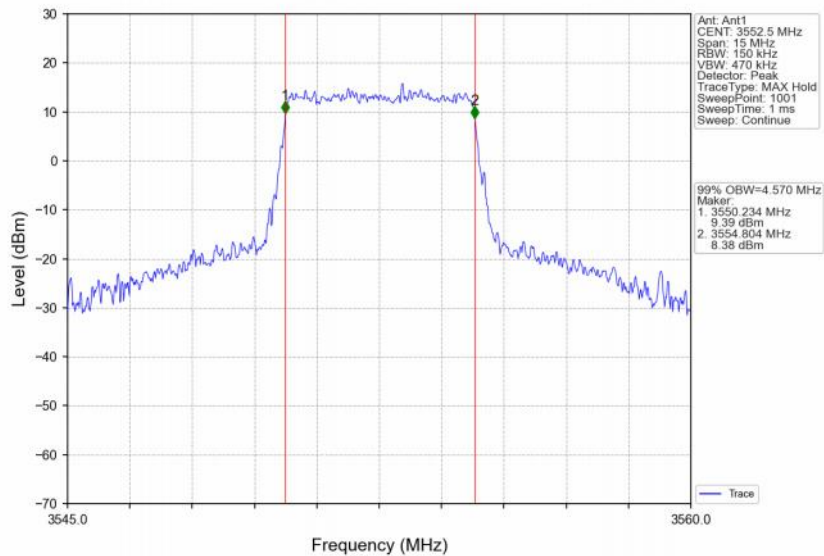


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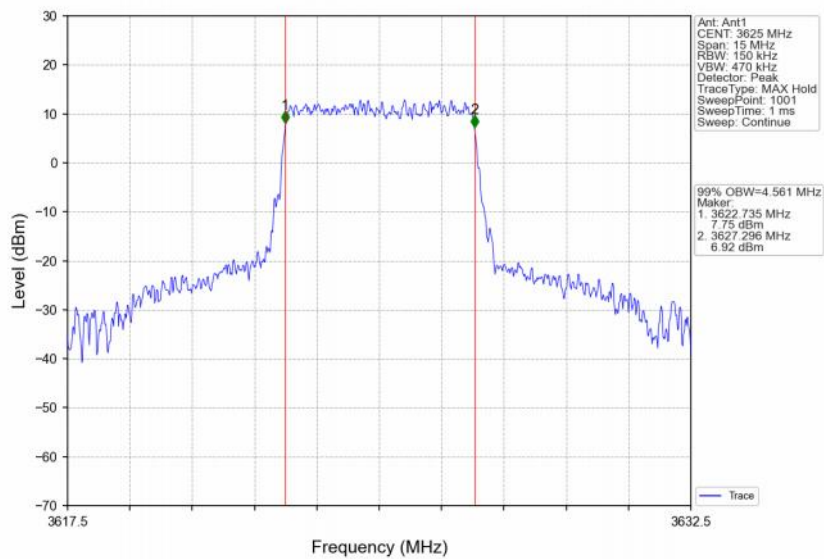
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV

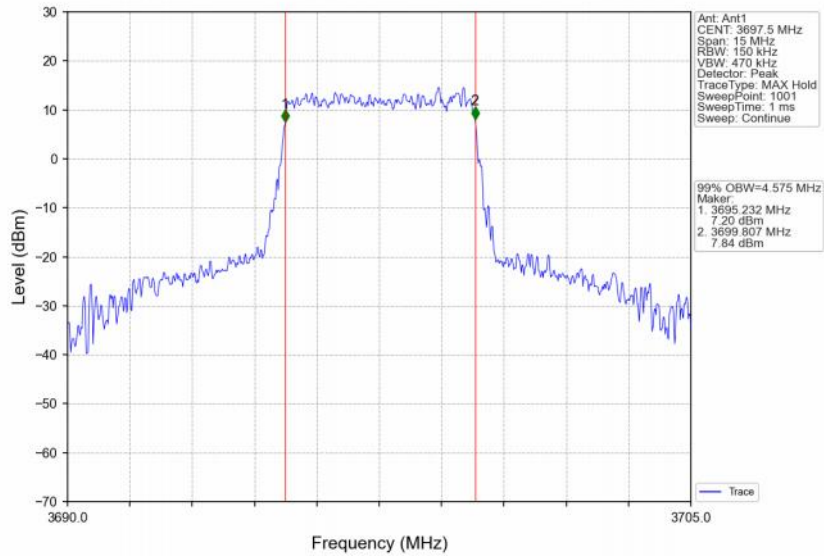


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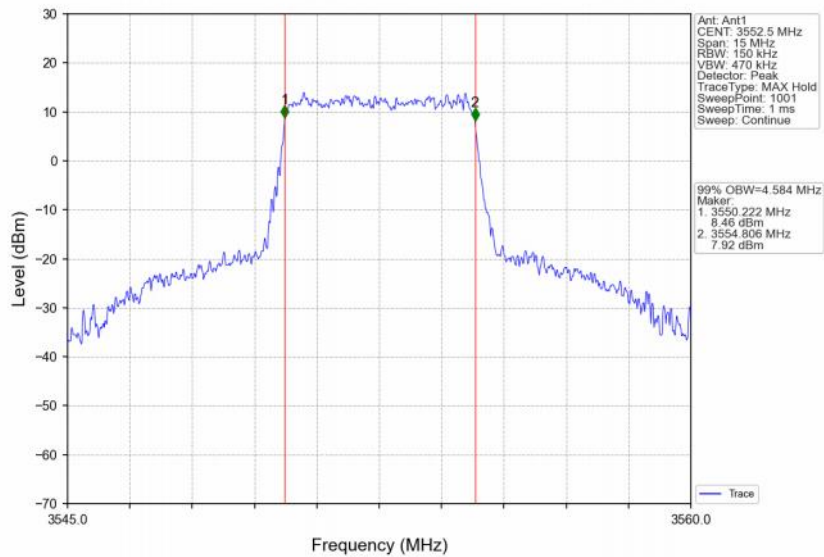
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV

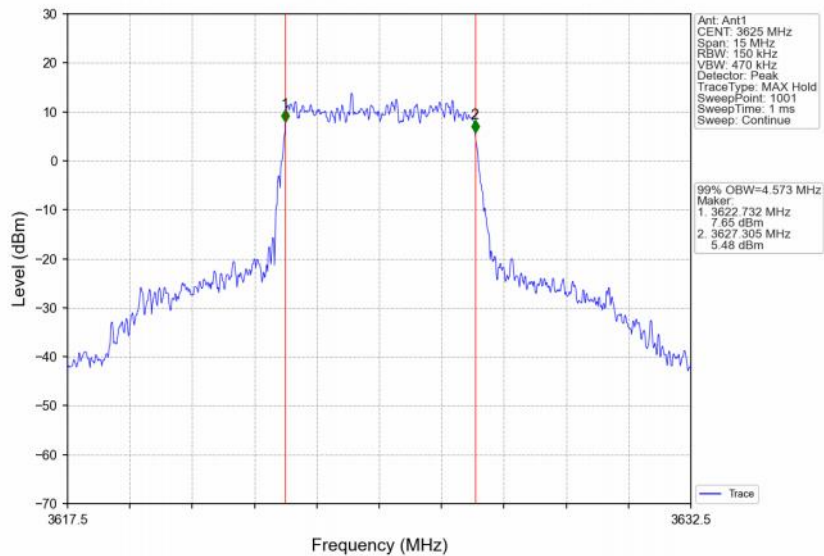


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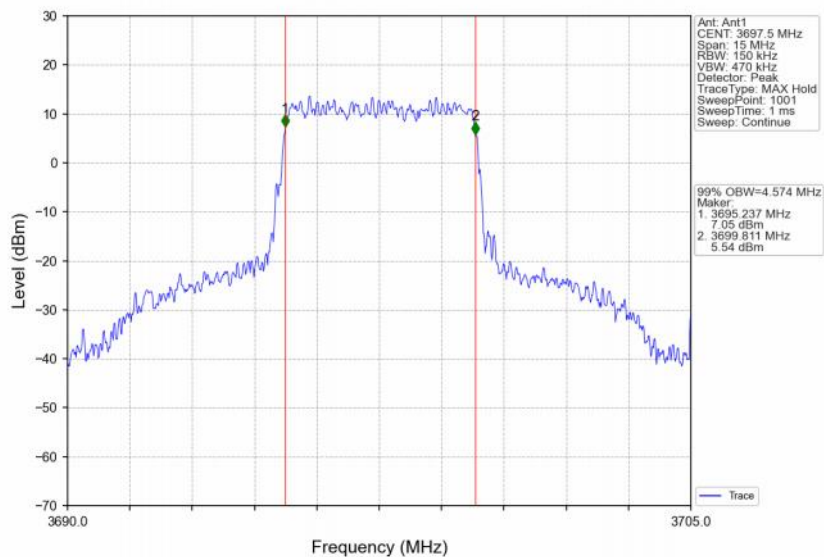
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Band48_5MHz_256QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV

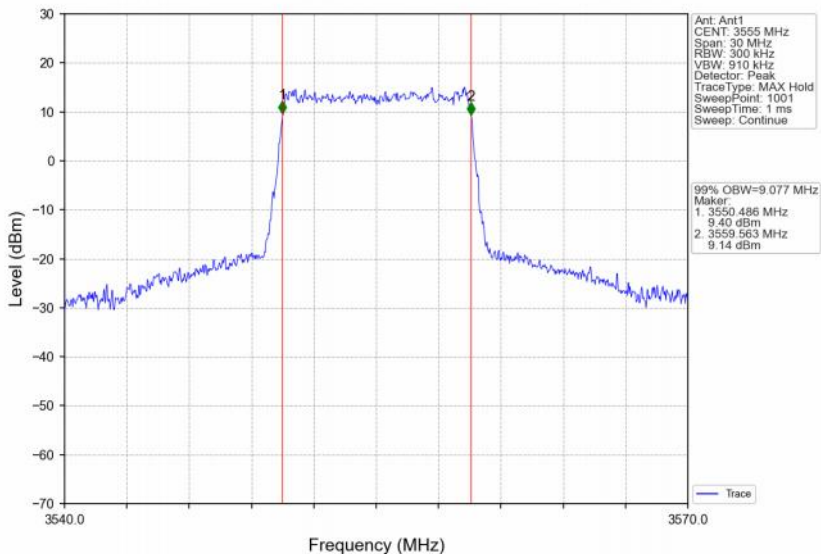


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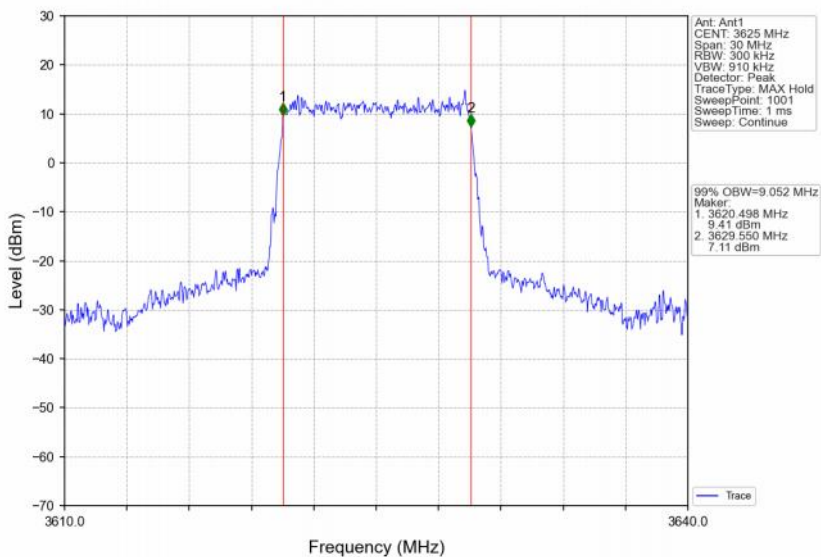
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Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV

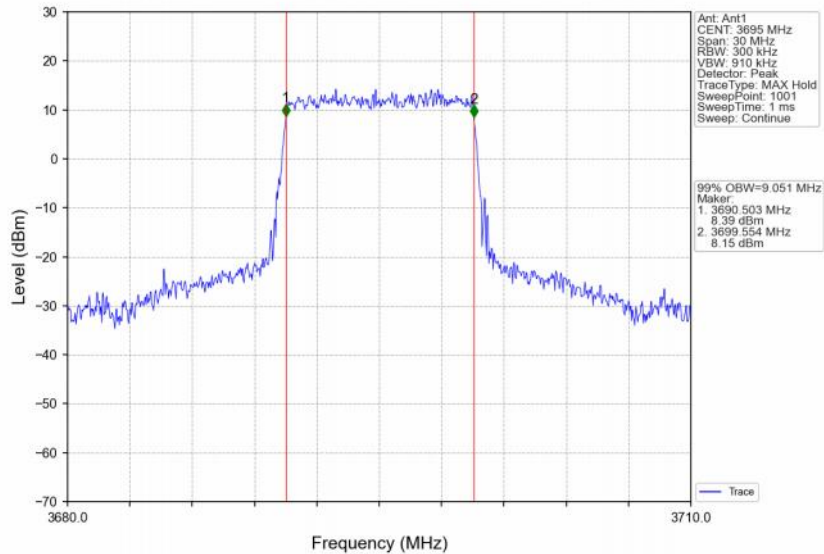


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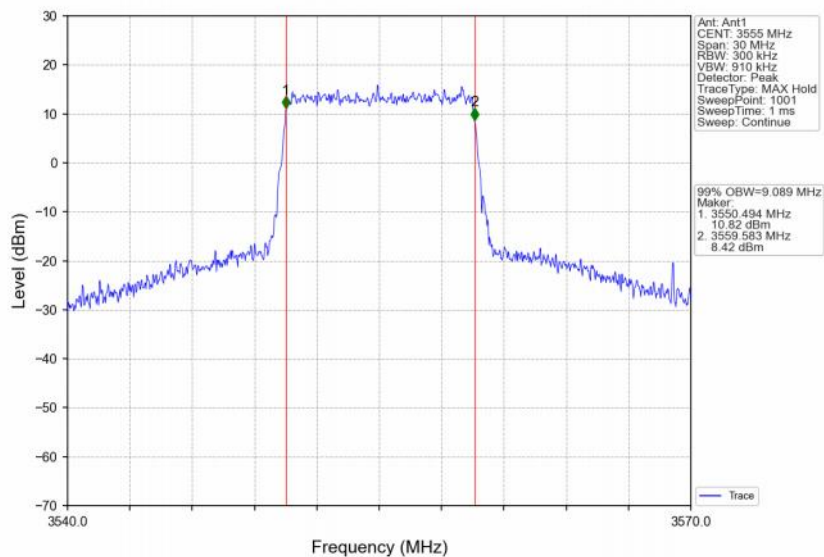
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Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV

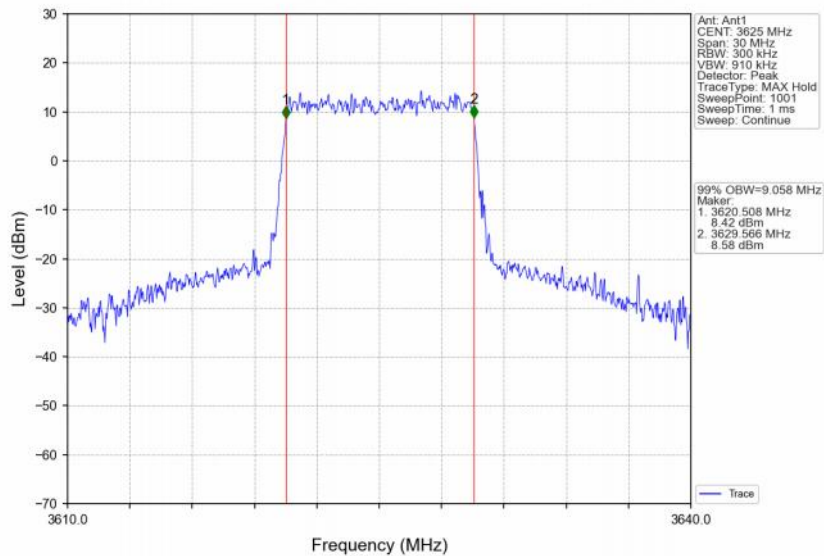


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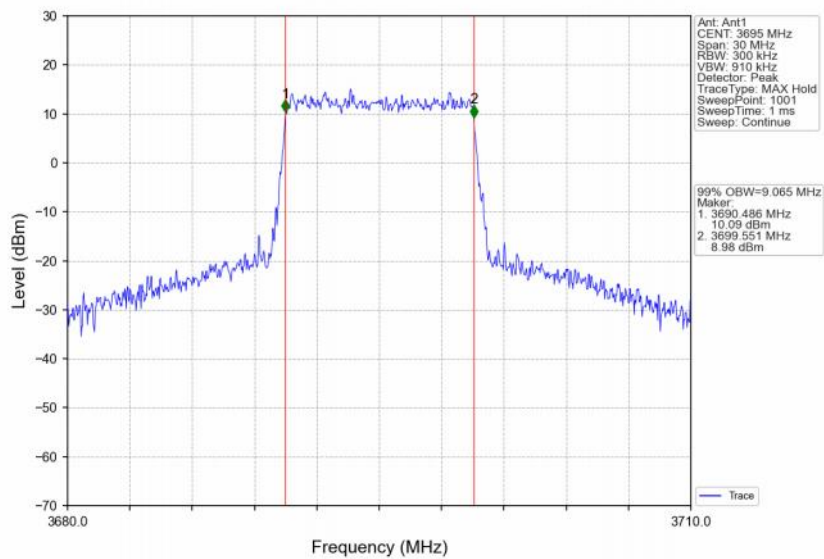
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Band48_10MHz_16QAM_MCH_3625MHz_RB_50_0_NTNV



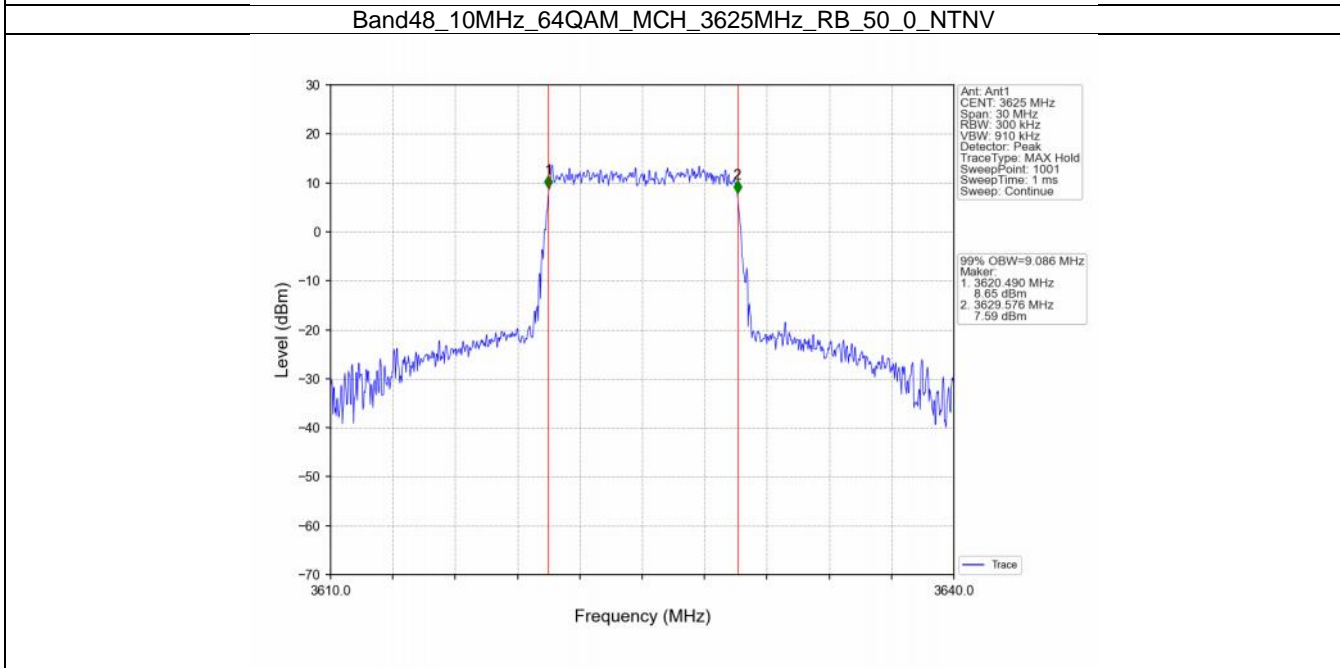
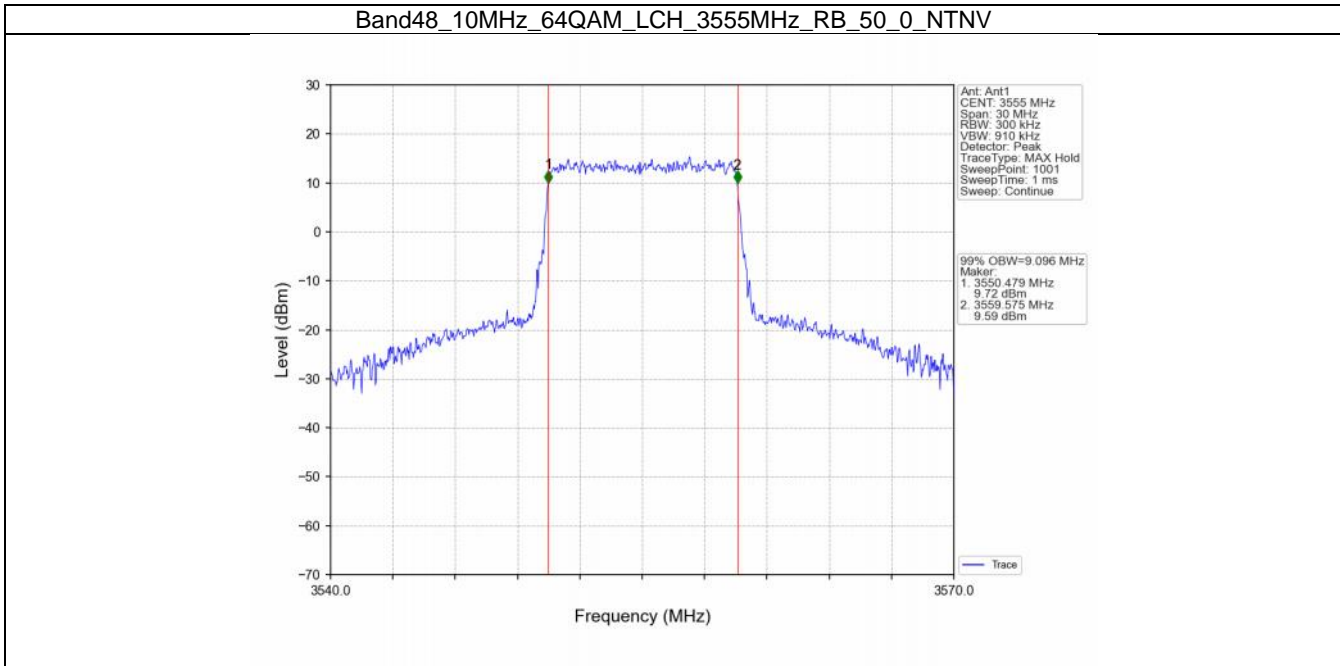
Band48_10MHz_16QAM_HCH_3695MHz_RB_50_0_NTNV



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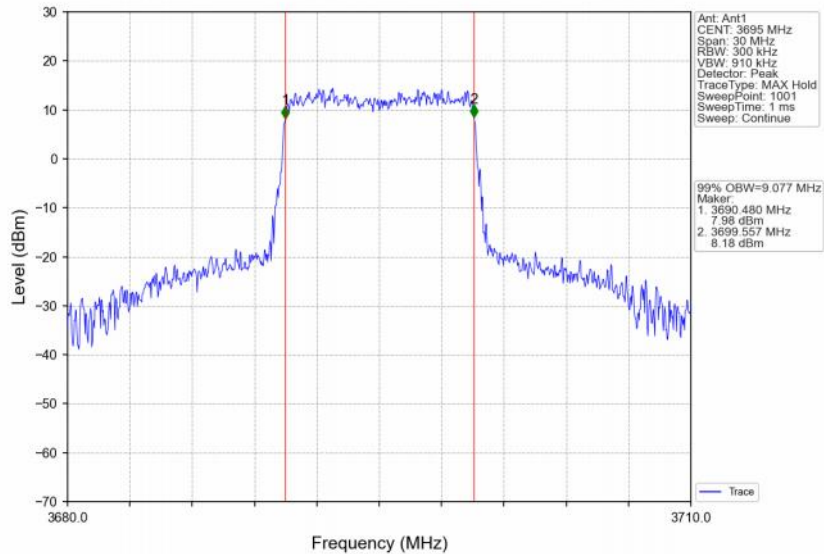


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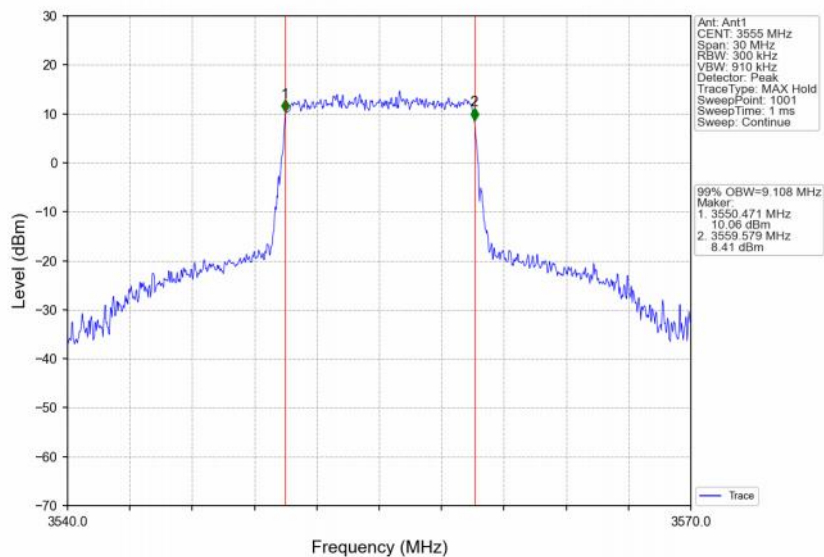
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Band48_10MHz_64QAM_HCH_3695MHz_RB_50_0_NTNV



Band48_10MHz_256QAM_LCH_3555MHz_RB_50_0_NTNV

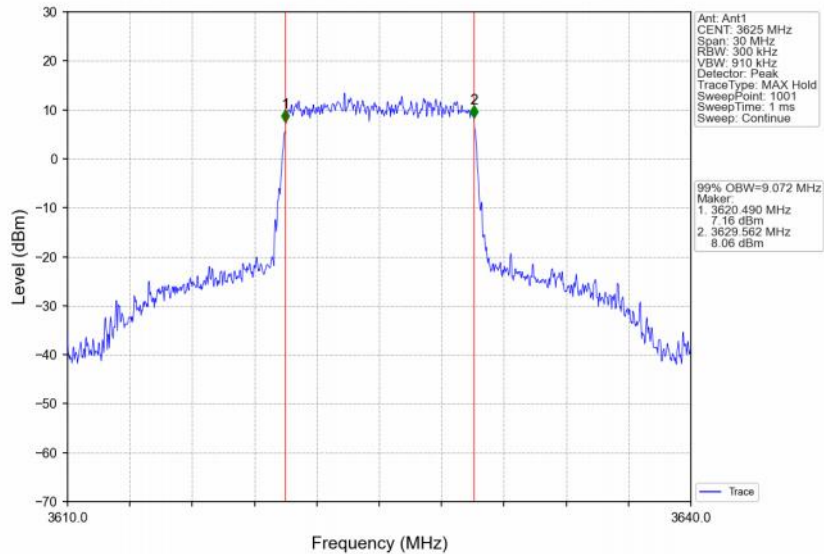


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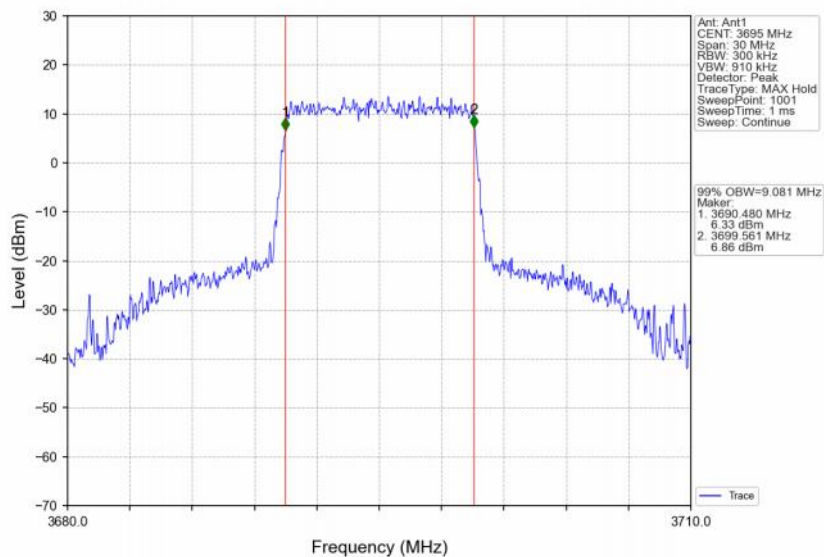
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Band48_10MHz_256QAM_MCH_3625MHz_RB_50_0_NTNV



Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV

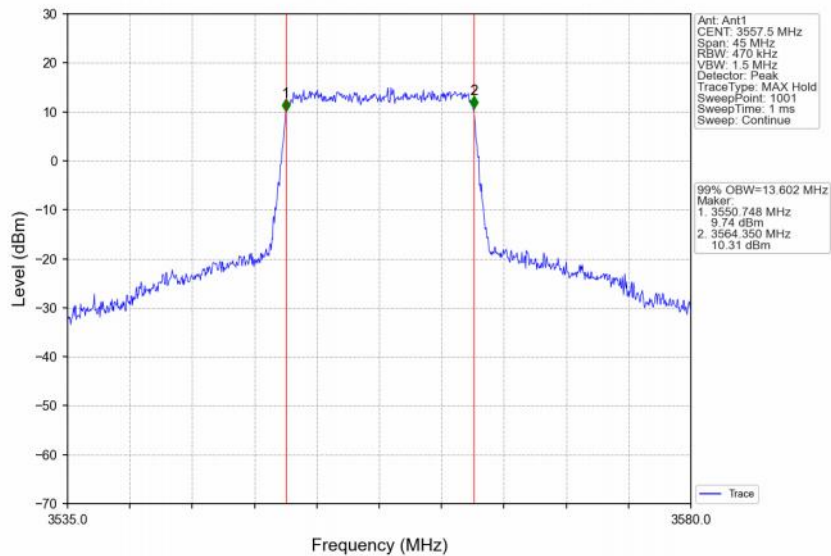


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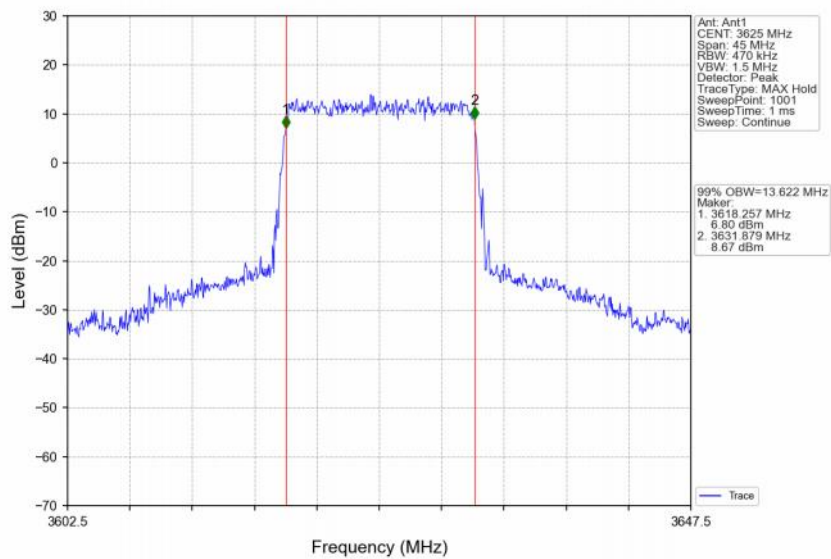
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Band48_15MHz_QPSK_LCH_3557.5MHz_RB_75_0_NTNV



Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV

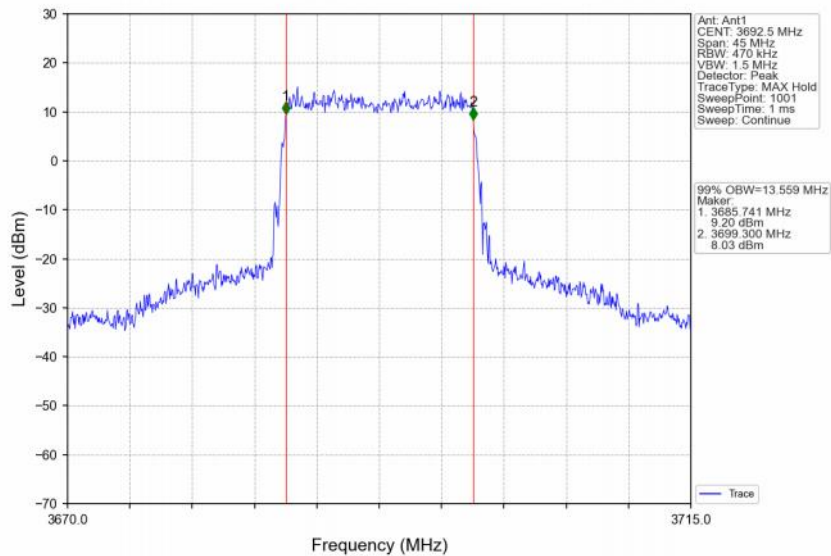


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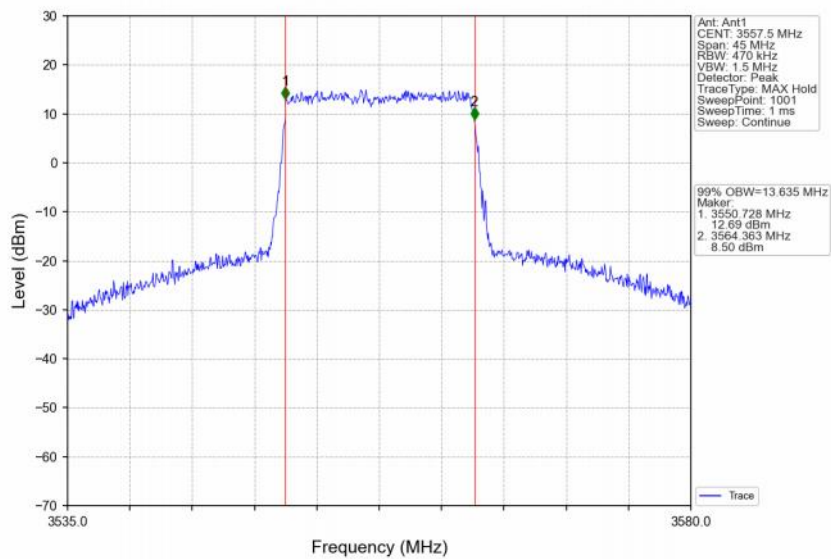
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV

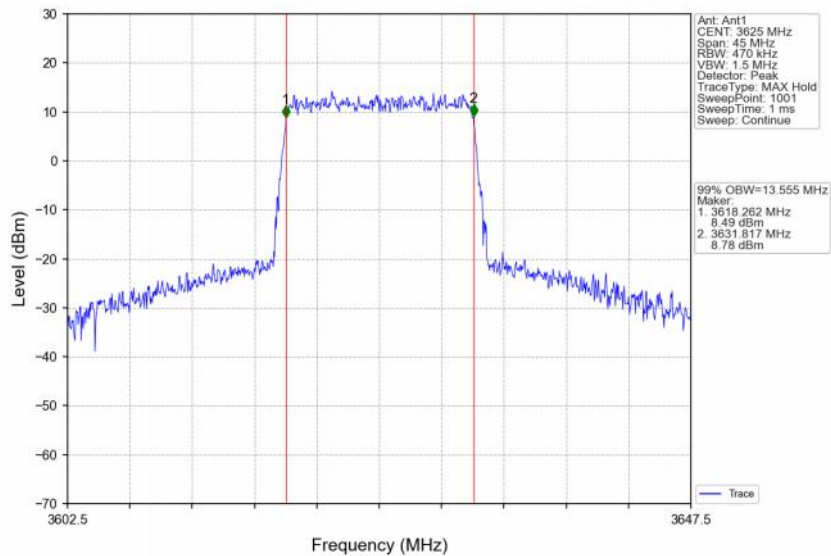


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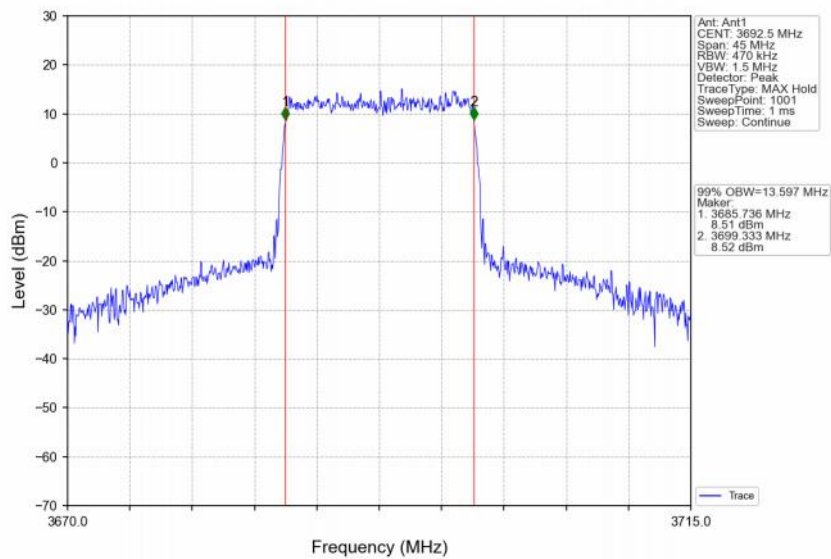
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Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV

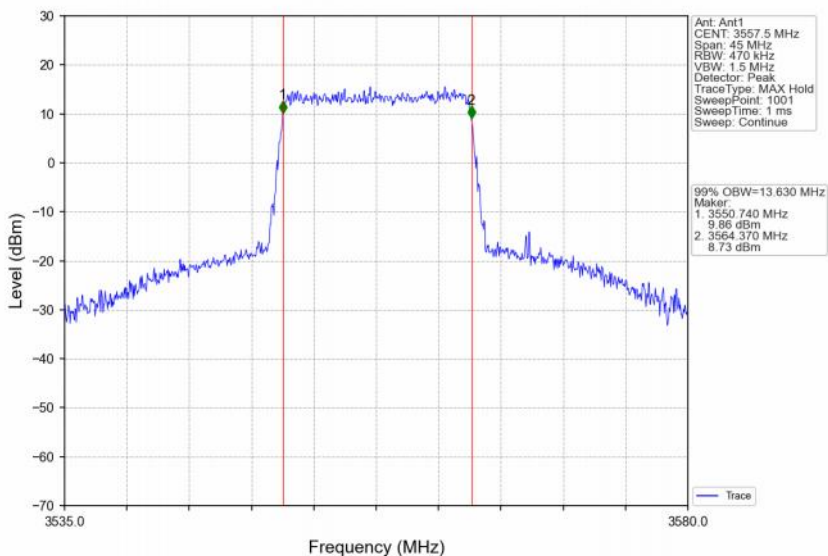


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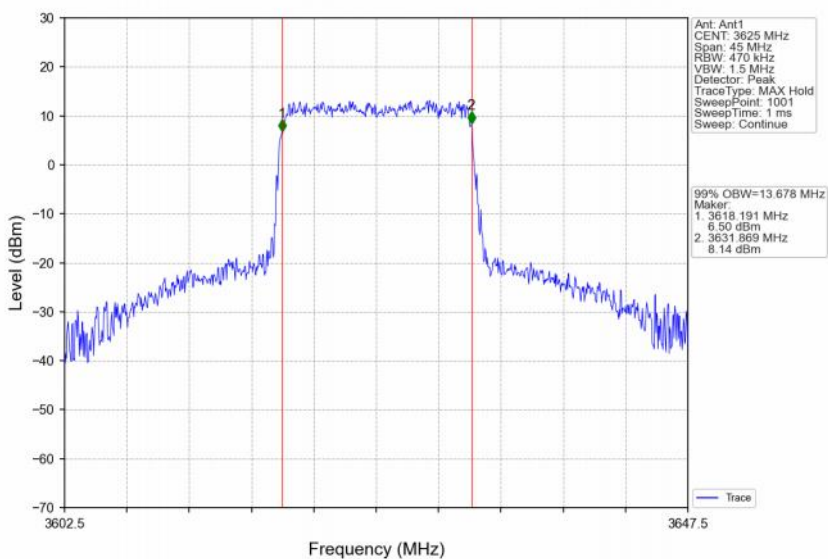
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Band48_15MHz_64QAM_LCH_3557.5MHz_RB_75_0_NTNV



Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV

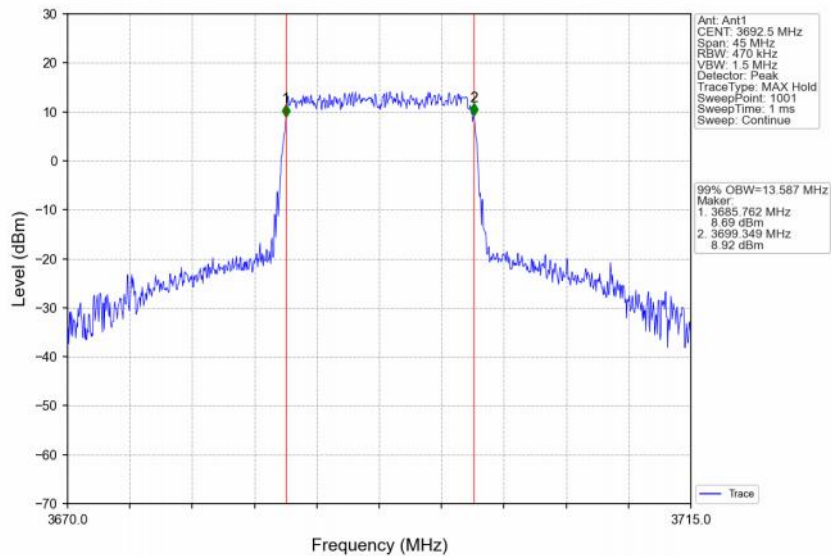


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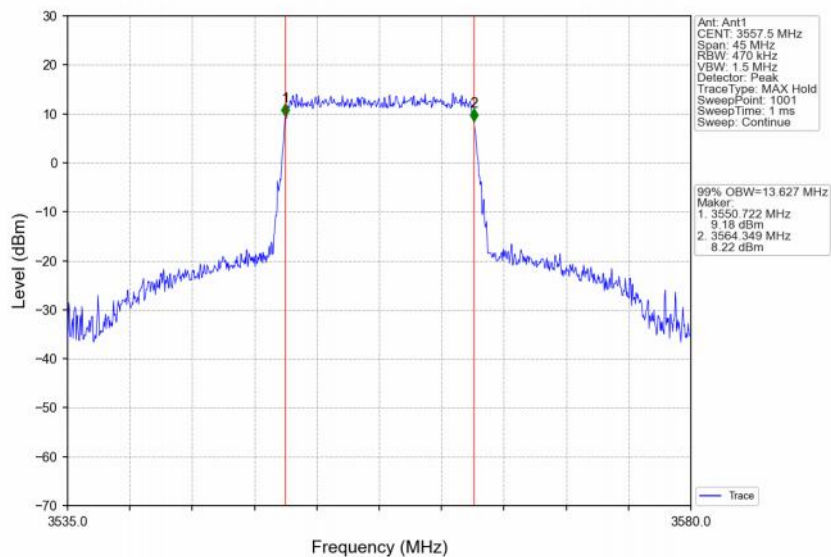
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Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV



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