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Appendix B.20

LTE Band 48



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	21.89	22.89	23	PASS
Band48	5MHz	QPSK	55265	1RB#12	21.99	22.99	23	PASS
Band48	5MHz	QPSK	55265	1RB#24	21.87	22.87	23	PASS
Band48	5MHz	QPSK	55265	25RB#0	20.89	21.89	23	PASS
Band48	5MHz	QPSK	55990	1RB#0	21.31	22.31	23	PASS
Band48	5MHz	QPSK	55990	1RB#12	21.4	22.4	23	PASS
Band48	5MHz	QPSK	55990	1RB#24	21.41	22.41	23	PASS
Band48	5MHz	QPSK	55990	25RB#0	20.41	21.41	23	PASS
Band48	5MHz	QPSK	56715	1RB#0	21.6	22.6	23	PASS
Band48	5MHz	QPSK	56715	1RB#12	21.67	22.67	23	PASS
Band48	5MHz	QPSK	56715	1RB#24	21.65	22.65	23	PASS
Band48	5MHz	QPSK	56715	25RB#0	20.56	21.56	23	PASS
Band48	5MHz	16QAM	55265	1RB#0	20.85	21.85	23	PASS
Band48	5MHz	16QAM	55265	1RB#12	20.98	21.98	23	PASS
Band48	5MHz	16QAM	55265	1RB#24	21.05	22.05	23	PASS
Band48	5MHz	16QAM	55265	25RB#0	19.91	20.91	23	PASS
Band48	5MHz	16QAM	55990	1RB#0	20.41	21.41	23	PASS
Band48	5MHz	16QAM	55990	1RB#12	20.55	21.55	23	PASS
Band48	5MHz	16QAM	55990	1RB#24	20.5	21.5	23	PASS
Band48	5MHz	16QAM	55990	25RB#0	19.36	20.36	23	PASS
Band48	5MHz	16QAM	56715	1RB#0	20.67	21.67	23	PASS
Band48	5MHz	16QAM	56715	1RB#12	20.72	21.72	23	PASS
Band48	5MHz	16QAM	56715	1RB#24	20.64	21.64	23	PASS
Band48	5MHz	16QAM	56715	25RB#0	19.63	20.63	23	PASS
Band48	5MHz	64QAM	55265	1RB#0	20.83	21.83	23	PASS
Band48	5MHz	64QAM	55265	1RB#12	20.87	21.87	23	PASS
Band48	5MHz	64QAM	55265	1RB#24	20.79	21.79	23	PASS
Band48	5MHz	64QAM	55265	25RB#0	19.97	20.97	23	PASS
Band48	5MHz	64QAM	55990	1RB#0	20.2	21.2	23	PASS



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Band48	5MHz	64QAM	55990	1RB#12	20.39	21.39	23	PASS
Band48	5MHz	64QAM	55990	1RB#24	20.36	21.36	23	PASS
Band48	5MHz	64QAM	55990	25RB#0	19.45	20.45	23	PASS
Band48	5MHz	64QAM	56715	1RB#0	20.57	21.57	23	PASS
Band48	5MHz	64QAM	56715	1RB#12	20.71	21.71	23	PASS
Band48	5MHz	64QAM	56715	1RB#24	20.62	21.62	23	PASS
Band48	5MHz	64QAM	56715	25RB#0	19.53	20.53	23	PASS
Band48	10MHz	QPSK	55290	1RB#0	21.85	22.85	23	PASS
Band48	10MHz	QPSK	55290	1RB#24	21.87	22.87	23	PASS
Band48	10MHz	QPSK	55290	1RB#49	21.94	22.94	23	PASS
Band48	10MHz	QPSK	55290	50RB#0	20.94	21.94	23	PASS
Band48	10MHz	QPSK	55990	1RB#0	21.28	22.28	23	PASS
Band48	10MHz	QPSK	55990	1RB#24	21.38	22.38	23	PASS
Band48	10MHz	QPSK	55990	1RB#49	21.49	22.49	23	PASS
Band48	10MHz	QPSK	55990	50RB#0	20.41	21.41	23	PASS
Band48	10MHz	QPSK	56690	1RB#0	21.62	22.62	23	PASS
Band48	10MHz	QPSK	56690	1RB#24	21.69	22.69	23	PASS
Band48	10MHz	QPSK	56690	1RB#49	21.57	22.57	23	PASS
Band48	10MHz	QPSK	56690	50RB#0	20.73	21.73	23	PASS
Band48	10MHz	16QAM	55290	1RB#0	20.94	21.94	23	PASS
Band48	10MHz	16QAM	55290	1RB#24	20.84	21.84	23	PASS
Band48	10MHz	16QAM	55290	1RB#49	20.91	21.91	23	PASS
Band48	10MHz	16QAM	55290	50RB#0	19.96	20.96	23	PASS
Band48	10MHz	16QAM	55990	1RB#0	20.31	21.31	23	PASS
Band48	10MHz	16QAM	55990	1RB#24	20.51	21.51	23	PASS
Band48	10MHz	16QAM	55990	1RB#49	20.52	21.52	23	PASS
Band48	10MHz	16QAM	55990	50RB#0	19.36	20.36	23	PASS
Band48	10MHz	16QAM	56690	1RB#0	20.75	21.75	23	PASS
Band48	10MHz	16QAM	56690	1RB#24	20.68	21.68	23	PASS
Band48	10MHz	16QAM	56690	1RB#49	20.65	21.65	23	PASS
Band48	10MHz	16QAM	56690	50RB#0	19.69	20.69	23	PASS
Band48	10MHz	64QAM	55290	1RB#0	19.84	20.84	23	PASS
Band48	10MHz	64QAM	55290	1RB#24	19.95	20.95	23	PASS
Band48	10MHz	64QAM	55290	1RB#49	20.01	21.01	23	PASS



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Band48	10MHz	64QAM	55990	1RB#0	19.33	20.33	23	PASS
Band48	10MHz	64QAM	55990	1RB#24	19.42	20.42	23	PASS
Band48	10MHz	64QAM	55990	1RB#49	19.47	20.47	23	PASS
Band48	10MHz	64QAM	55990	50RB#0	18.33	19.33	23	PASS
Band48	10MHz	64QAM	56690	1RB#0	19.71	20.71	23	PASS
Band48	10MHz	64QAM	56690	1RB#24	19.75	20.75	23	PASS
Band48	10MHz	64QAM	56690	1RB#49	19.61	20.61	23	PASS
Band48	10MHz	64QAM	56690	50RB#0	18.74	19.74	23	PASS
Band48	15MHz	QPSK	55315	1RB#0	21.75	22.75	23	PASS
Band48	15MHz	QPSK	55315	1RB#38	21.73	22.73	23	PASS
Band48	15MHz	QPSK	55315	1RB#74	21.76	22.76	23	PASS
Band48	15MHz	QPSK	55315	75RB#0	20.8	21.8	23	PASS
Band48	15MHz	QPSK	55990	1RB#0	21.21	22.21	23	PASS
Band48	15MHz	QPSK	55990	1RB#38	21.18	22.18	23	PASS
Band48	15MHz	QPSK	55990	1RB#74	21.19	22.19	23	PASS
Band48	15MHz	QPSK	55990	75RB#0	20.27	21.27	23	PASS
Band48	15MHz	QPSK	56665	1RB#0	21.42	22.42	23	PASS
Band48	15MHz	QPSK	56665	1RB#38	21.47	22.47	23	PASS
Band48	15MHz	QPSK	56665	1RB#74	21.44	22.44	23	PASS
Band48	15MHz	QPSK	56665	75RB#0	20.59	21.59	23	PASS
Band48	15MHz	16QAM	55315	1RB#0	20.68	21.68	23	PASS
Band48	15MHz	16QAM	55315	1RB#38	20.74	21.74	23	PASS
Band48	15MHz	16QAM	55315	1RB#74	20.68	21.68	23	PASS
Band48	15MHz	16QAM	55315	75RB#0	19.84	20.84	23	PASS
Band48	15MHz	16QAM	55990	1RB#0	20.21	21.21	23	PASS
Band48	15MHz	16QAM	55990	1RB#38	20.24	21.24	23	PASS
Band48	15MHz	16QAM	55990	1RB#74	20.32	21.32	23	PASS
Band48	15MHz	16QAM	55990	75RB#0	19.23	20.23	23	PASS
Band48	15MHz	16QAM	56665	1RB#0	20.38	21.38	23	PASS
Band48	15MHz	16QAM	56665	1RB#38	20.55	21.55	23	PASS
Band48	15MHz	16QAM	56665	1RB#74	20.42	21.42	23	PASS
Band48	15MHz	16QAM	56665	75RB#0	19.59	20.59	23	PASS
Band48	15MHz	64QAM	55315	1RB#0	19.66	20.66	23	PASS



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Band48	15MHz	64QAM	55315	1RB#74	19.59	20.59	23	PASS
Band48	15MHz	64QAM	55315	75RB#0	18.83	19.83	23	PASS
Band48	15MHz	64QAM	55990	1RB#0	19.23	20.23	23	PASS
Band48	15MHz	64QAM	55990	1RB#38	19.21	20.21	23	PASS
Band48	15MHz	64QAM	55990	1RB#74	19.2	20.2	23	PASS
Band48	15MHz	64QAM	55990	75RB#0	18.27	19.27	23	PASS
Band48	15MHz	64QAM	56665	1RB#0	19.44	20.44	23	PASS
Band48	15MHz	64QAM	56665	1RB#38	19.36	20.36	23	PASS
Band48	15MHz	64QAM	56665	1RB#74	19.39	20.39	23	PASS
Band48	15MHz	64QAM	56665	75RB#0	18.64	19.64	23	PASS
Band48	20MHz	QPSK	55340	1RB#0	21.72	22.72	23	PASS
Band48	20MHz	QPSK	55340	1RB#49	21.76	22.76	23	PASS
Band48	20MHz	QPSK	55340	1RB#99	21.79	22.79	23	PASS
Band48	20MHz	QPSK	55340	100RB#0	20.82	21.82	23	PASS
Band48	20MHz	QPSK	55990	1RB#0	21.06	22.06	23	PASS
Band48	20MHz	QPSK	55990	1RB#49	21.19	22.19	23	PASS
Band48	20MHz	QPSK	55990	1RB#99	21.32	22.32	23	PASS
Band48	20MHz	QPSK	55990	100RB#0	20.23	21.23	23	PASS
Band48	20MHz	QPSK	56640	1RB#0	21.41	22.41	23	PASS
Band48	20MHz	QPSK	56640	1RB#49	21.51	22.51	23	PASS
Band48	20MHz	QPSK	56640	1RB#99	21.43	22.43	23	PASS
Band48	20MHz	QPSK	56640	100RB#0	20.53	21.53	23	PASS
Band48	20MHz	16QAM	55340	1RB#0	20.61	21.61	23	PASS
Band48	20MHz	16QAM	55340	1RB#49	21.03	22.03	23	PASS
Band48	20MHz	16QAM	55340	1RB#99	20.83	21.83	23	PASS
Band48	20MHz	16QAM	55340	100RB#0	19.8	20.8	23	PASS
Band48	20MHz	16QAM	55990	1RB#0	20.05	21.05	23	PASS
Band48	20MHz	16QAM	55990	1RB#49	20.22	21.22	23	PASS
Band48	20MHz	16QAM	55990	1RB#99	20.33	21.33	23	PASS
Band48	20MHz	16QAM	55990	100RB#0	19.31	20.31	23	PASS
Band48	20MHz	16QAM	56640	1RB#0	20.33	21.33	23	PASS
Band48	20MHz	16QAM	56640	1RB#49	20.63	21.63	23	PASS
Band48	20MHz	16QAM	56640	1RB#99	20.47	21.47	23	PASS



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Band48	20MHz	16QAM	56640	100RB#0	19.47	20.47	23	PASS
Band48	20MHz	64QAM	55340	1RB#0	19.68	20.68	23	PASS
Band48	20MHz	64QAM	55340	1RB#49	19.74	20.74	23	PASS
Band48	20MHz	64QAM	55340	1RB#99	19.85	20.85	23	PASS
Band48	20MHz	64QAM	55340	100RB#0	18.86	19.86	23	PASS
Band48	20MHz	64QAM	55990	1RB#0	19.03	20.03	23	PASS
Band48	20MHz	64QAM	55990	1RB#49	19.41	20.41	23	PASS
Band48	20MHz	64QAM	55990	1RB#99	19.16	20.16	23	PASS
Band48	20MHz	64QAM	55990	100RB#0	18.3	19.3	23	PASS
Band48	20MHz	64QAM	56640	1RB#0	19.42	20.42	23	PASS
Band48	20MHz	64QAM	56640	1RB#49	19.46	20.46	23	PASS
Band48	20MHz	64QAM	56640	1RB#99	19.57	20.57	23	PASS
Band48	20MHz	64QAM	56640	100RB#0	18.52	19.52	23	PASS



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2. Frequency Stability

2.4 B48_20MHz

2.4.1 Test Result

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	3625	100	0	20	3.135	-1.900	-0.0005	/	Pass
					3.7	-0.100	0.0000	/	Pass
					4.4	-0.400	-0.0001	/	Pass
				-30	3.7	0.100	0.0000	/	Pass
				-20	3.7	-2.100	-0.0006	/	Pass
				-10	3.7	-2.400	-0.0007	/	Pass
				0	3.7	0.300	0.0001	/	Pass
				10	3.7	-2.700	-0.0007	/	Pass
				30	3.7	1.600	0.0004	/	Pass
				40	3.7	-3.500	-0.0010	/	Pass
				50	3.7	0.300	0.0001	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band48_OBW

3.1.1 Test Result

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.528	/	Pass
		3625	25	0	4.526	/	Pass
		3697.5	25	0	4.532	/	Pass
	16QAM	3552.5	25	0	4.527	/	Pass
		3625	25	0	4.513	/	Pass
		3697.5	25	0	4.530	/	Pass
	64QAM	3552.5	25	0	4.516	/	Pass
		3625	25	0	4.542	/	Pass
		3697.5	25	0	4.525	/	Pass
	256QAM	3552.5	25	0	4.520	/	Pass
		3625	25	0	4.519	/	Pass
		3697.5	25	0	4.514	/	Pass
10	QPSK	3555	50	0	9.028	/	Pass
		3625	50	0	9.014	/	Pass
		3695	50	0	9.031	/	Pass
	16QAM	3555	50	0	9.018	/	Pass
		3625	50	0	9.029	/	Pass
		3695	50	0	8.990	/	Pass
	64QAM	3555	50	0	9.032	/	Pass
		3625	50	0	9.015	/	Pass
		3695	50	0	9.035	/	Pass
	256QAM	3555	50	0	9.033	/	Pass
		3625	50	0	9.032	/	Pass
		3695	50	0	9.033	/	Pass
15	QPSK	3557.5	75	0	13.476	/	Pass
		3625	75	0	13.492	/	Pass
		3692.5	75	0	13.527	/	Pass
	16QAM	3557.5	75	0	13.523	/	Pass
		3625	75	0	13.519	/	Pass
		3692.5	75	0	13.492	/	Pass
	64QAM	3557.5	75	0	13.520	/	Pass
		3625	75	0	13.509	/	Pass
		3692.5	75	0	13.517	/	Pass
	256QAM	3557.5	75	0	13.527	/	Pass
		3625	75	0	13.508	/	Pass
		3692.5	75	0	13.495	/	Pass
20	QPSK	3560	100	0	18.078	/	Pass
		3625	100	0	18.031	/	Pass
		3690	100	0	18.073	/	Pass



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	16QAM	3560	100	0	18.052	/	Pass
		3625	100	0	18.083	/	Pass
		3690	100	0	18.013	/	Pass
	64QAM	3560	100	0	18.051	/	Pass
		3625	100	0	18.014	/	Pass
		3690	100	0	18.061	/	Pass
	256QAM	3560	100	0	18.016	/	Pass
		3625	100	0	18.041	/	Pass
		3690	100	0	18.038	/	Pass
		3560	100	0	18.052	/	Pass
		3625	100	0	18.083	/	Pass
		3690	100	0	18.013	/	Pass



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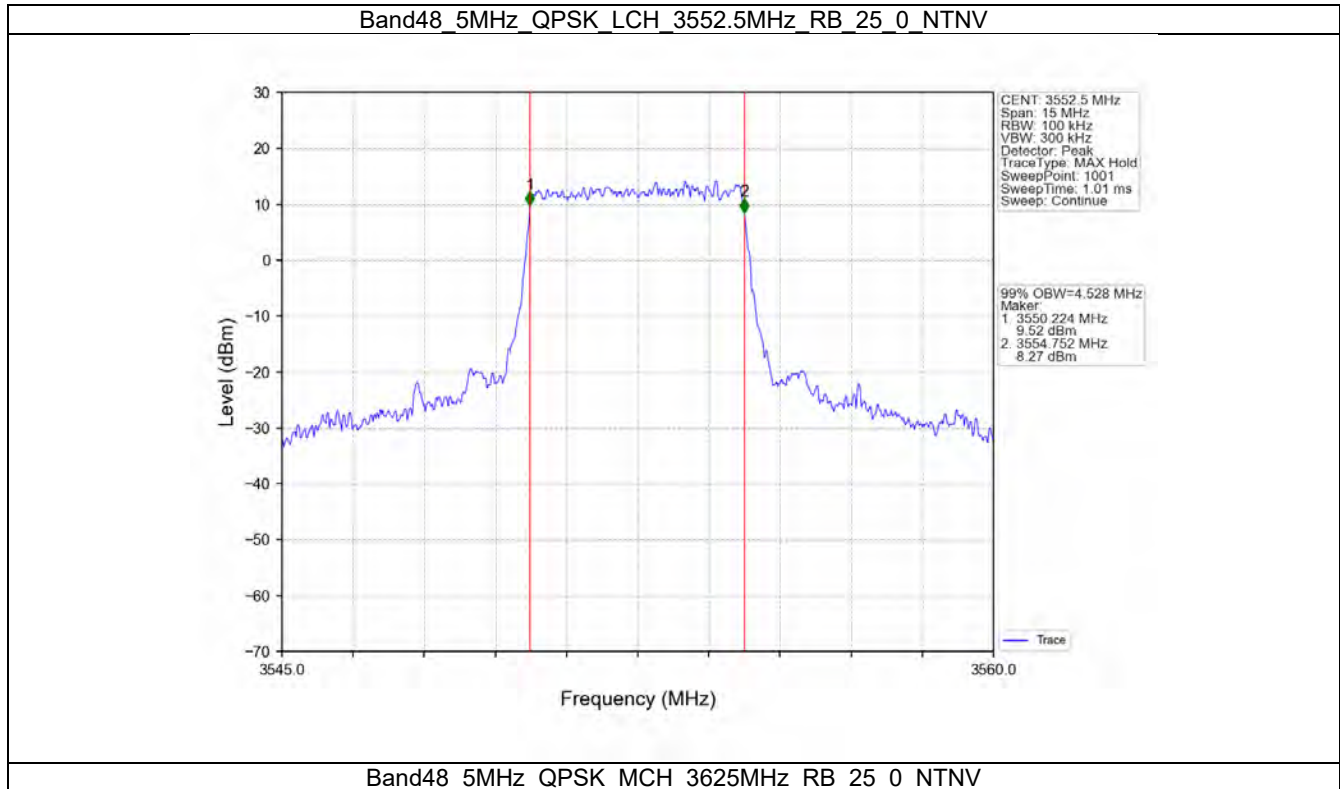
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3.1.2 Test Graph



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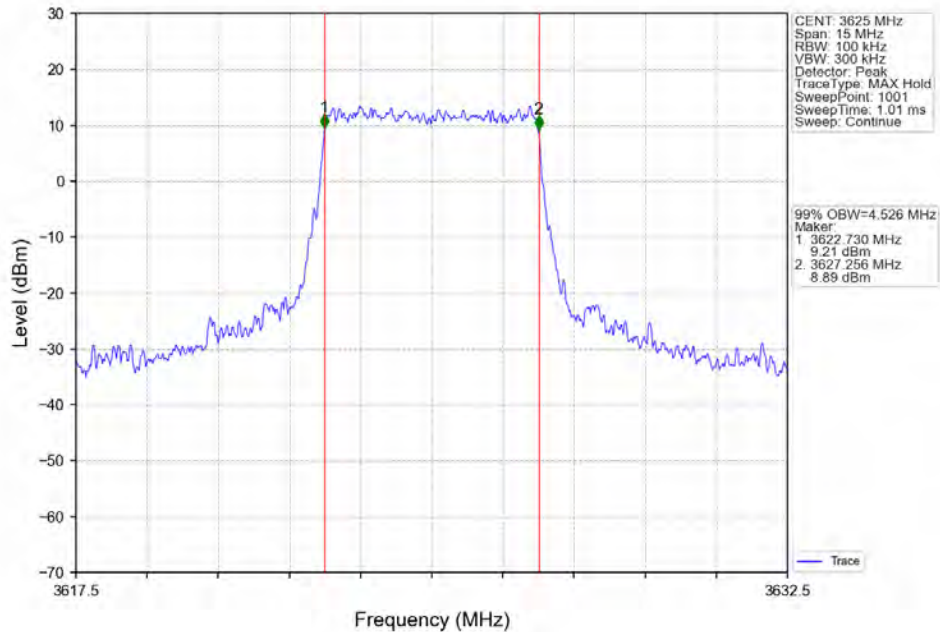
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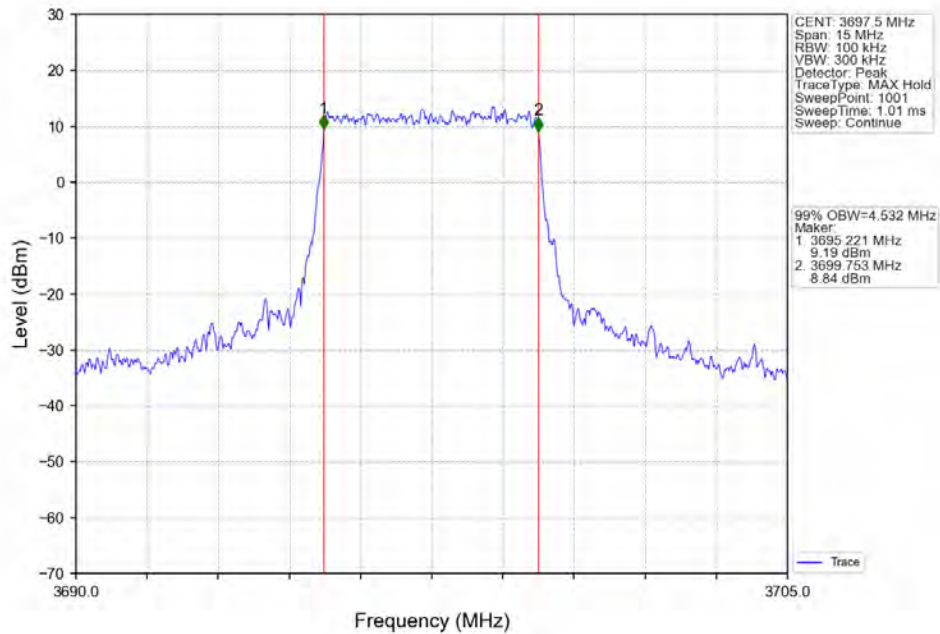
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV



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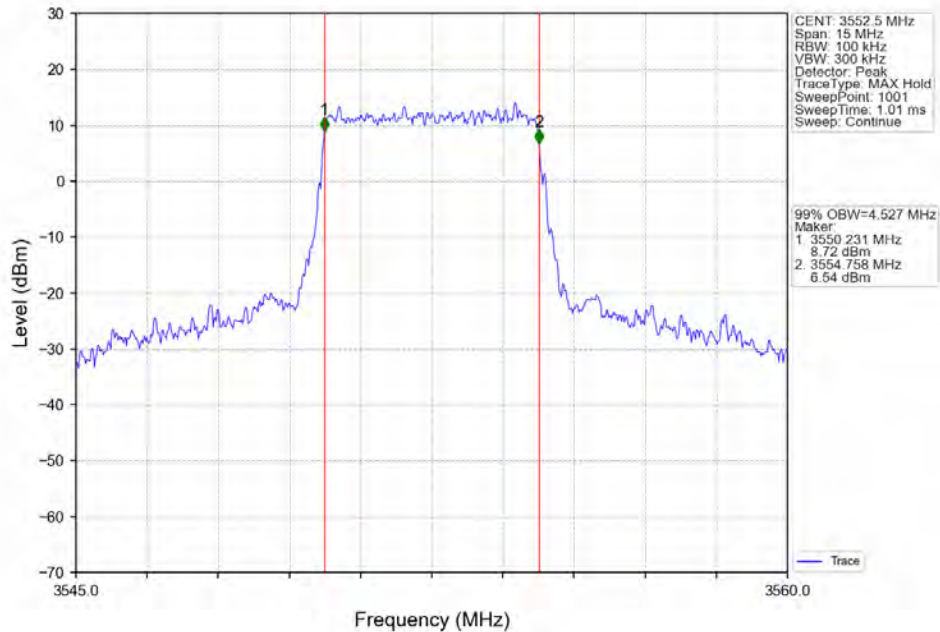
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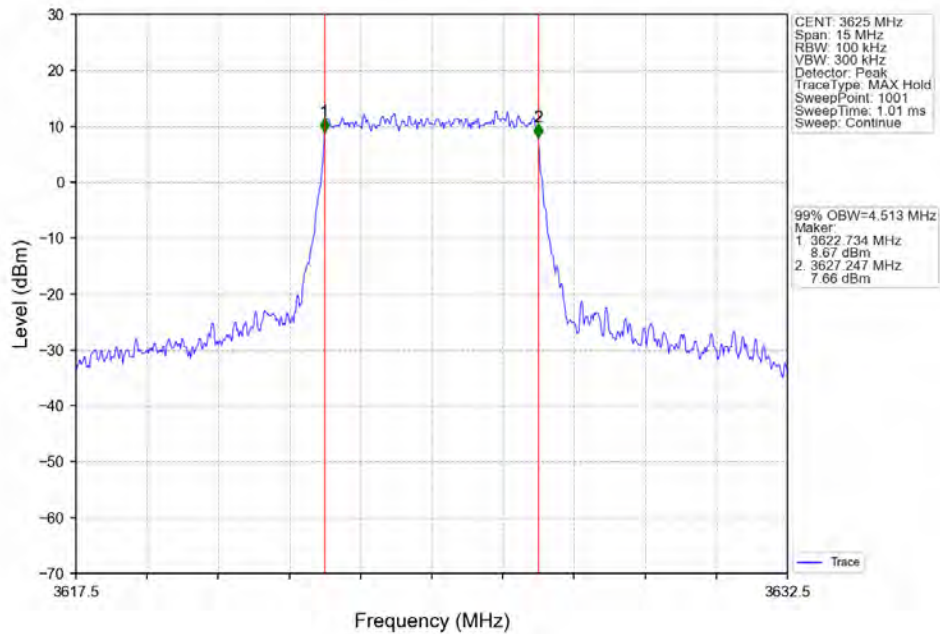
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Band48_5MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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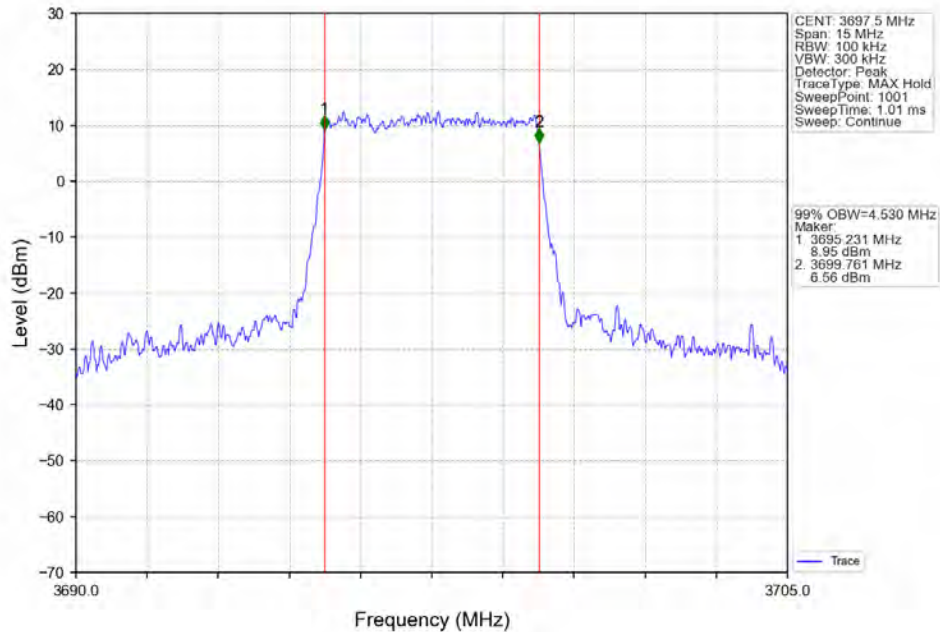
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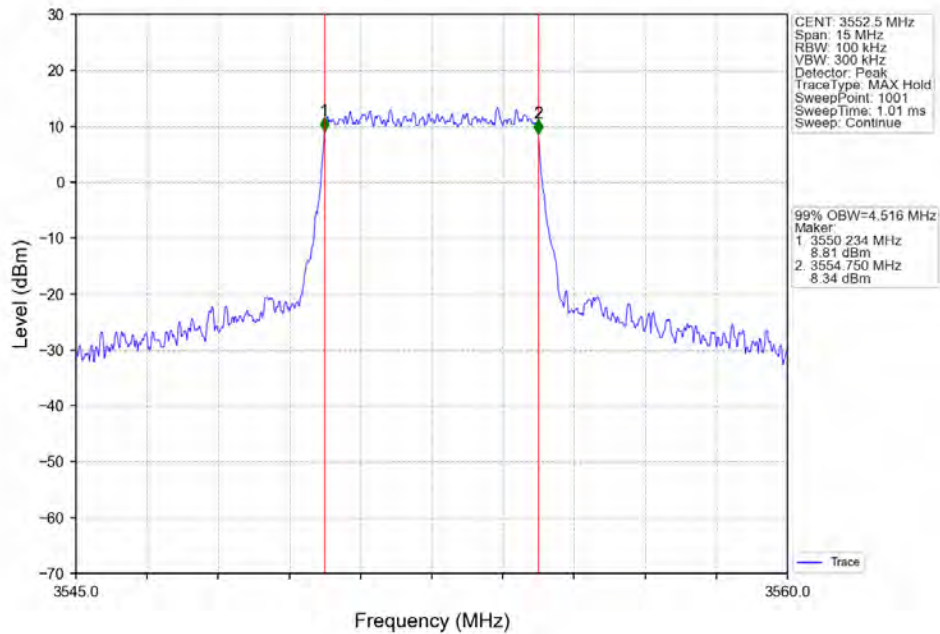
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Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV



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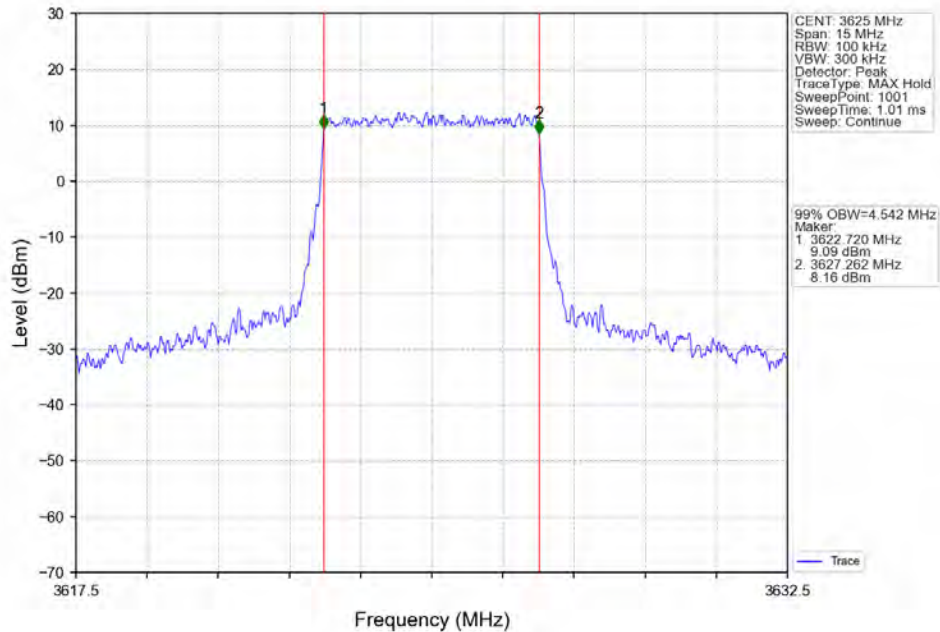
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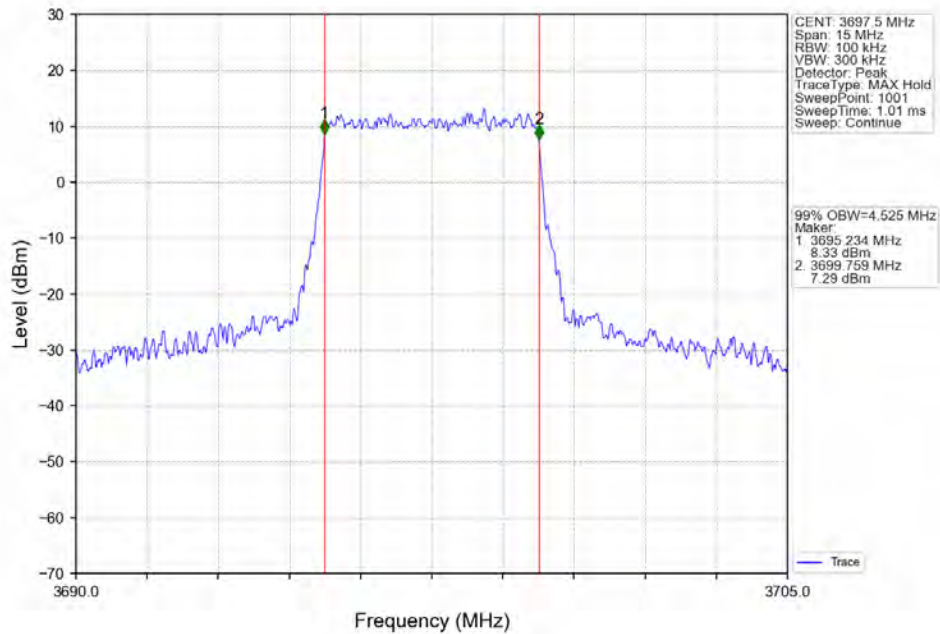
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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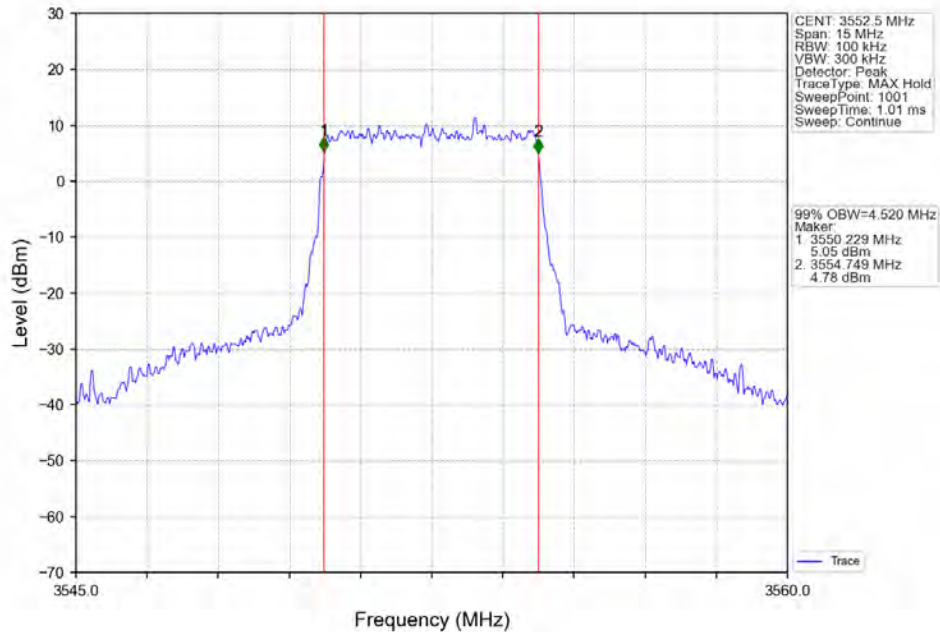
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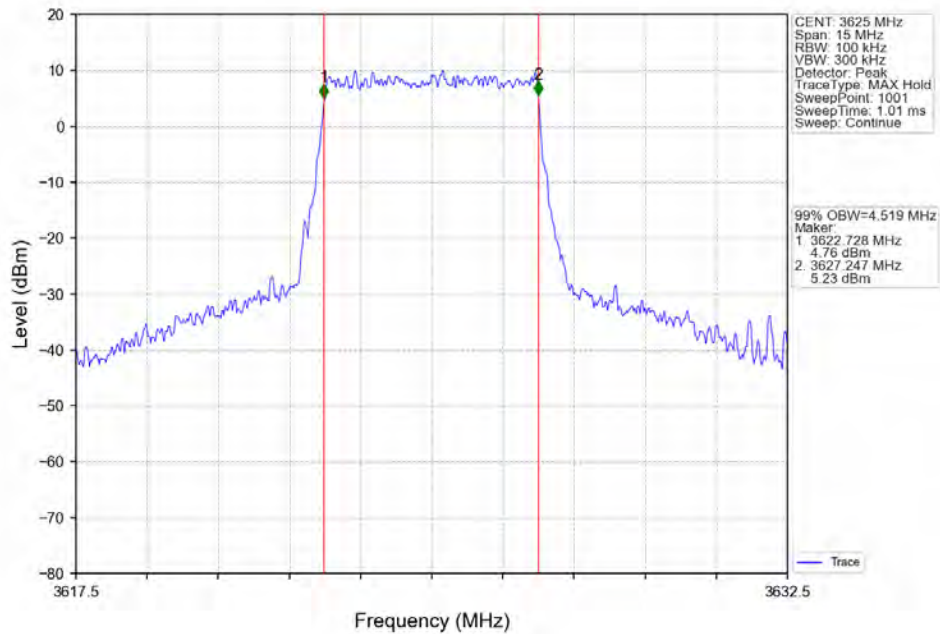
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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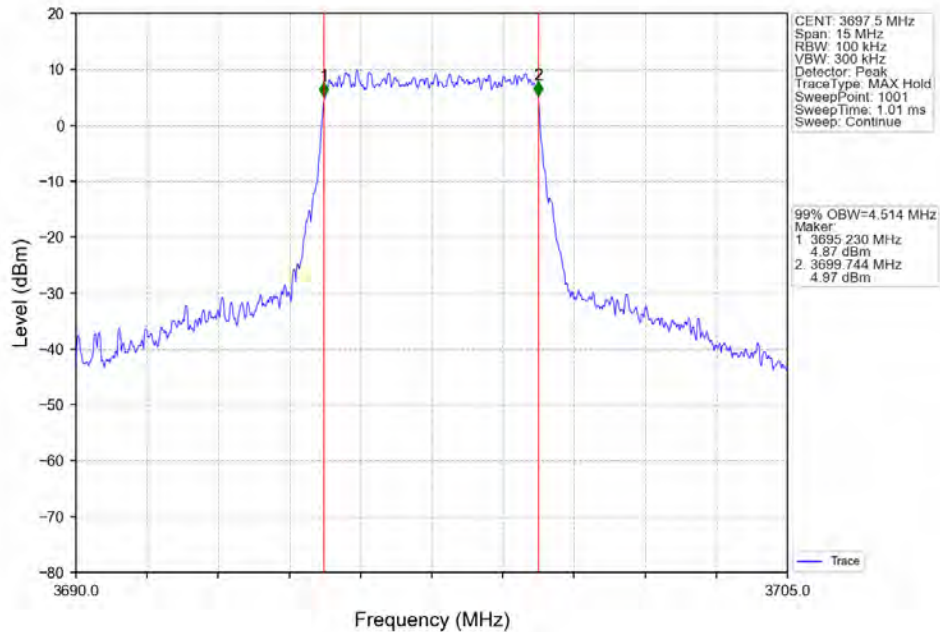
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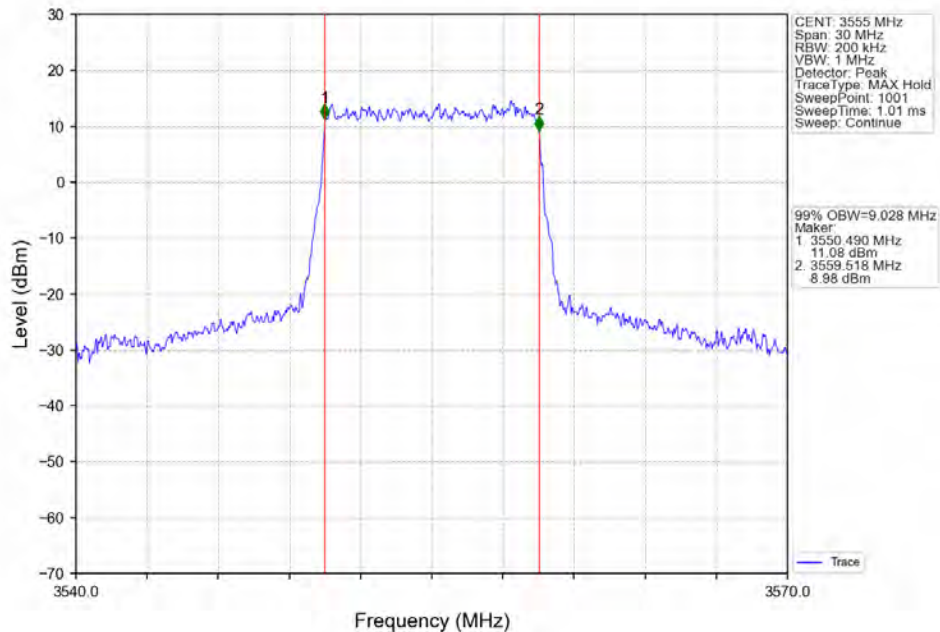
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Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



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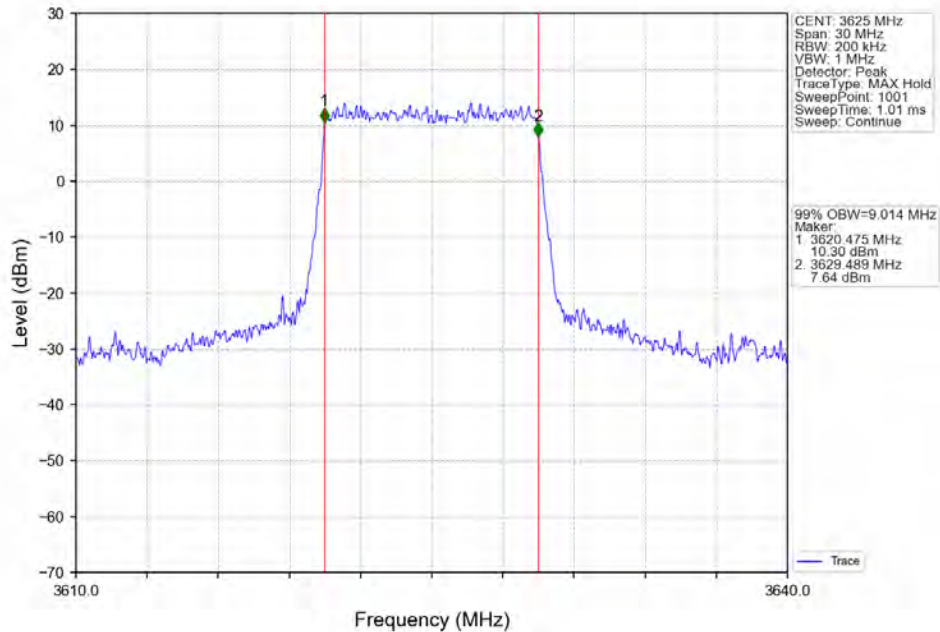
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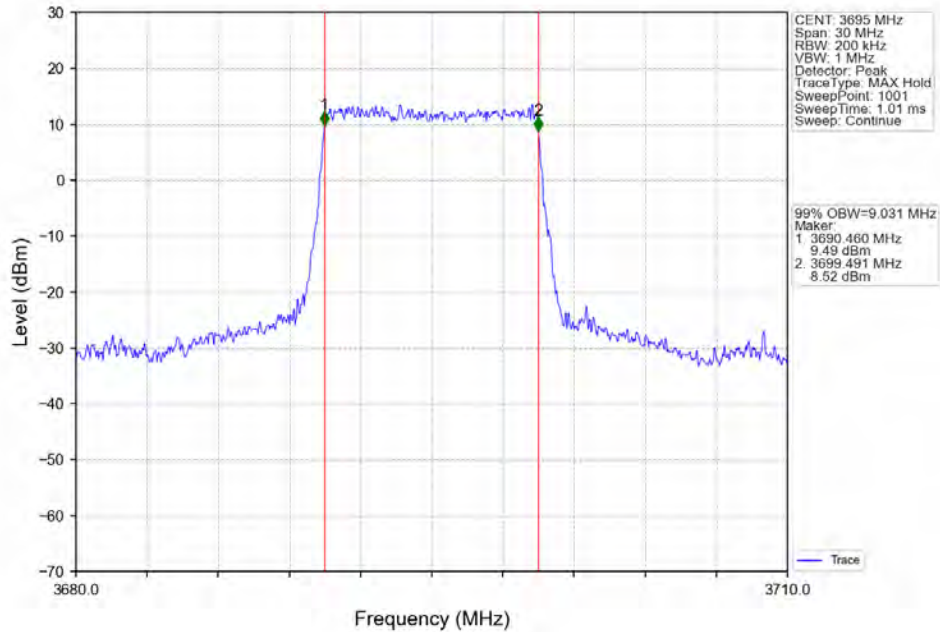
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Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



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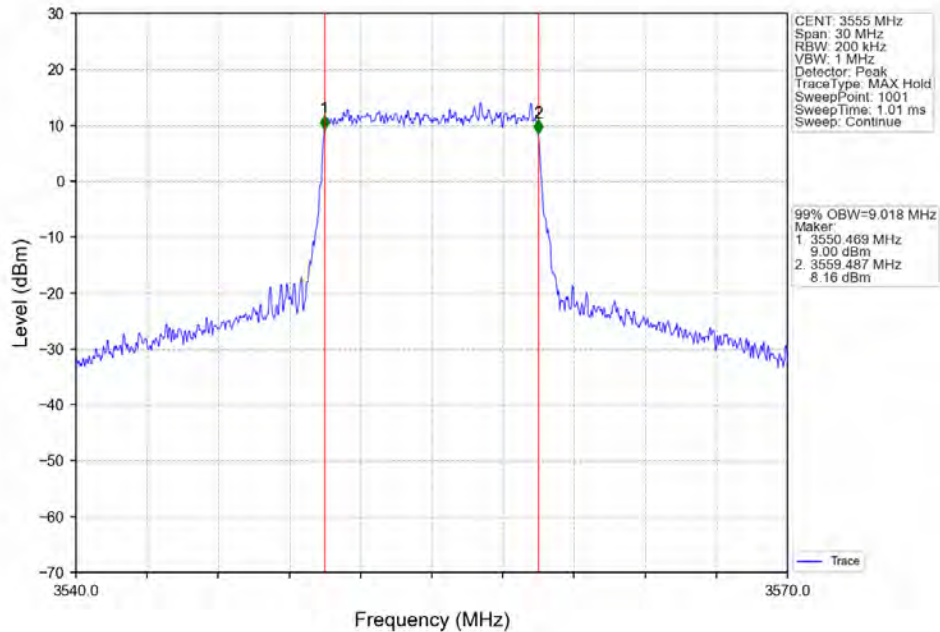
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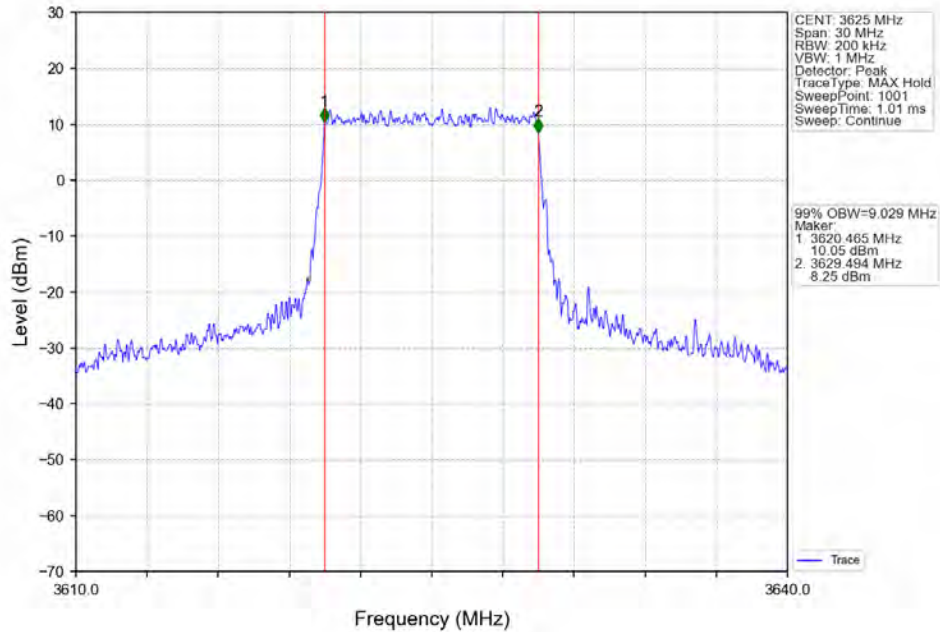
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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTNV



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTNV



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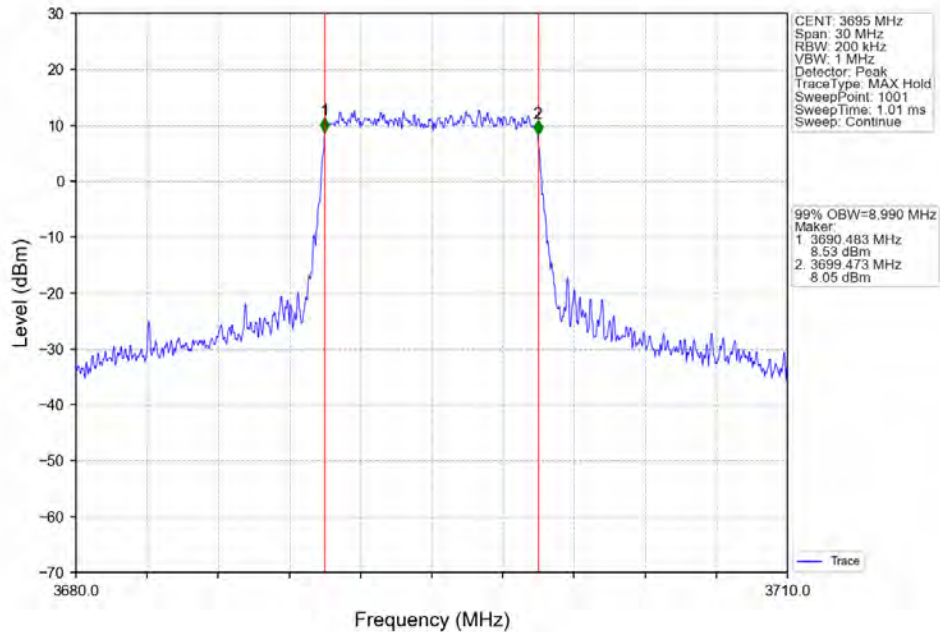
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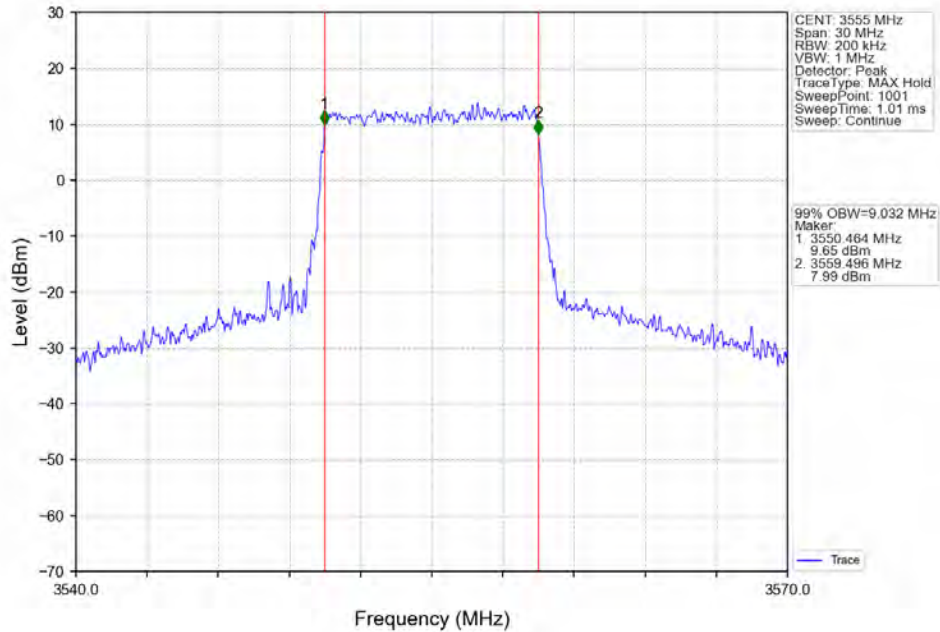
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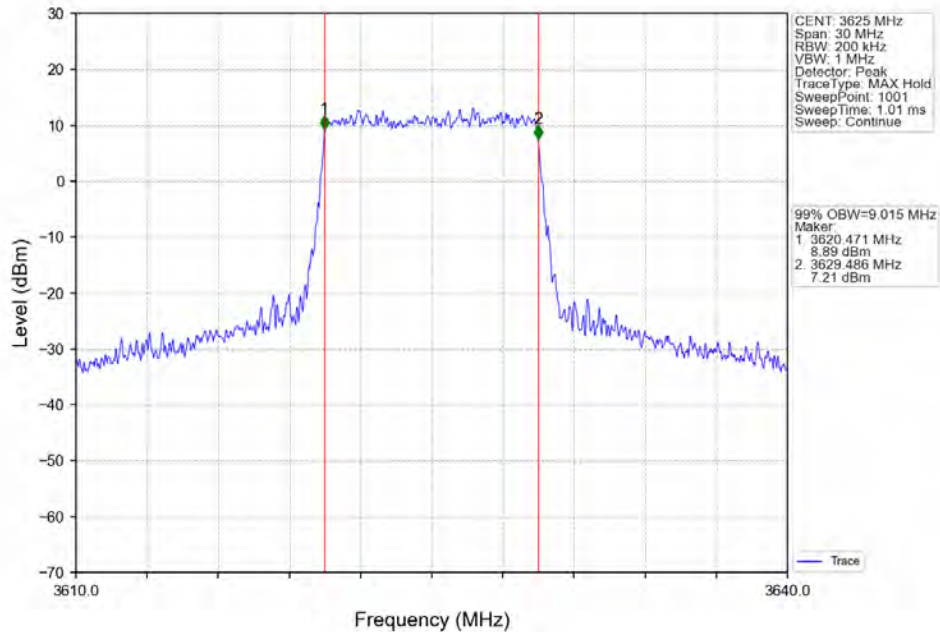
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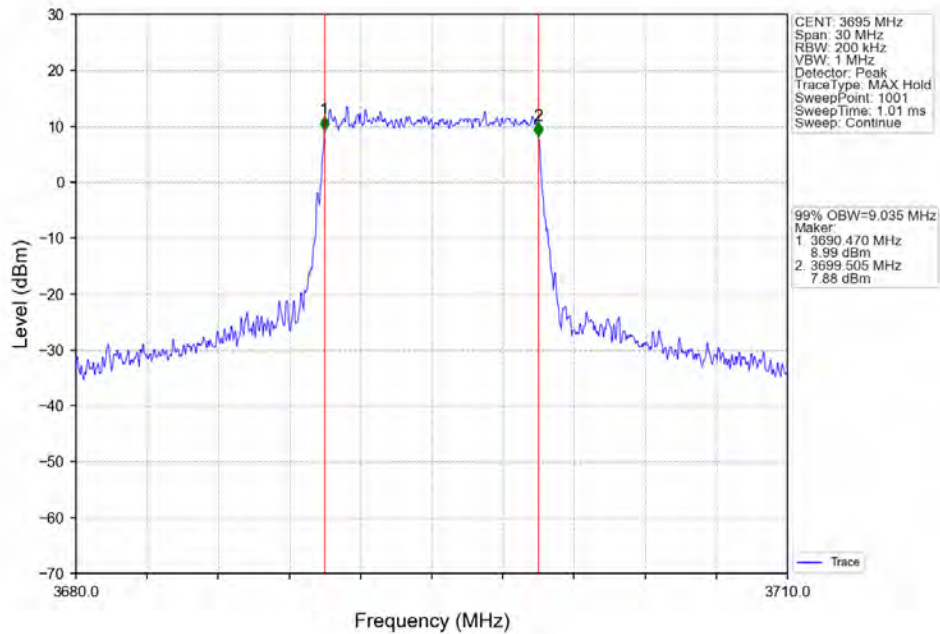
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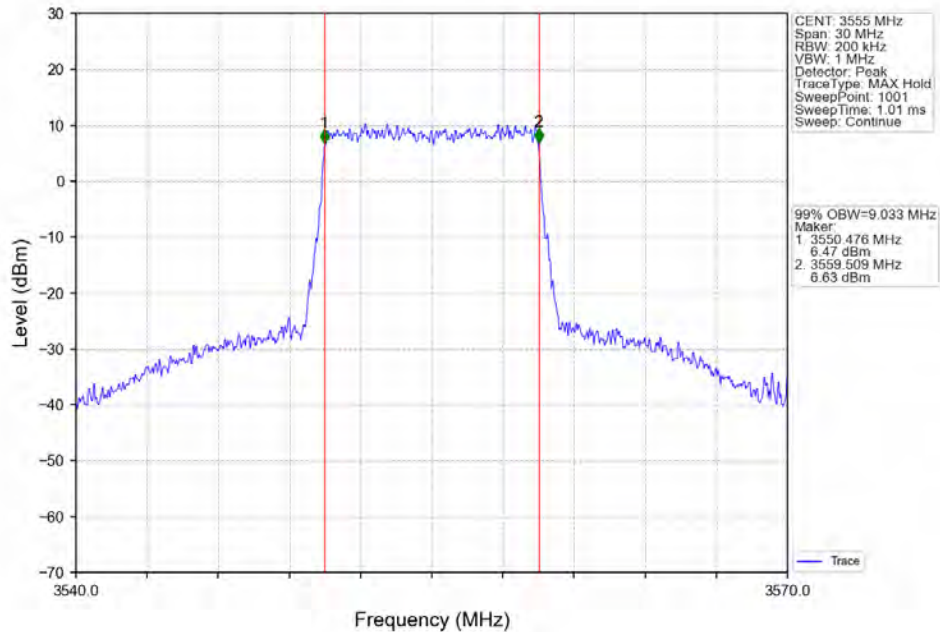
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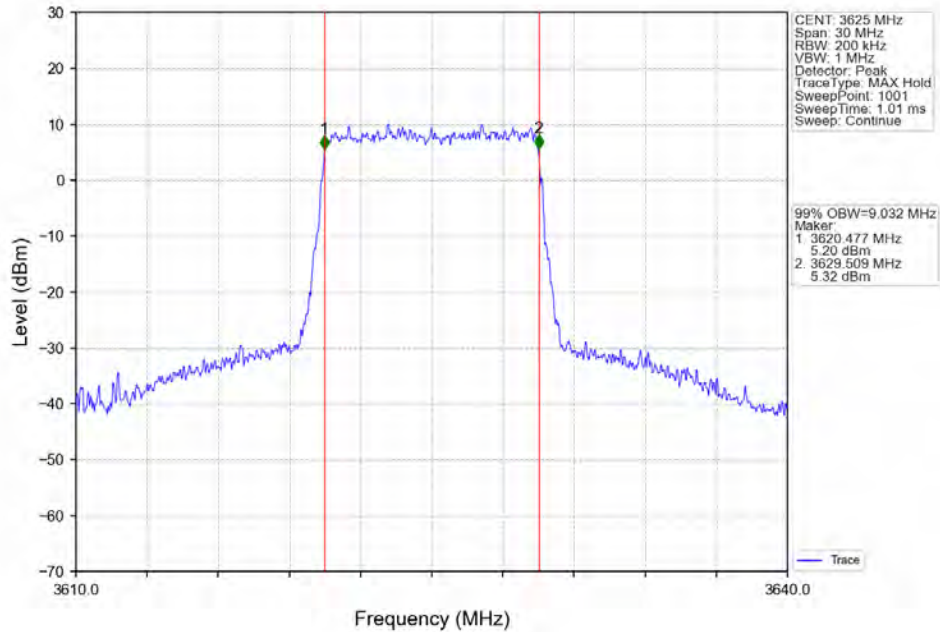
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Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV



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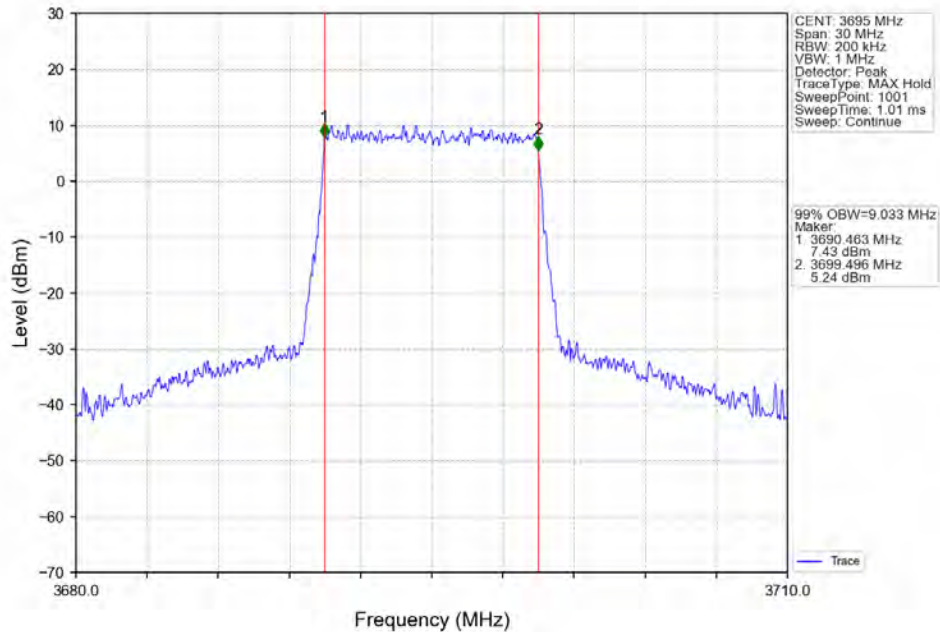
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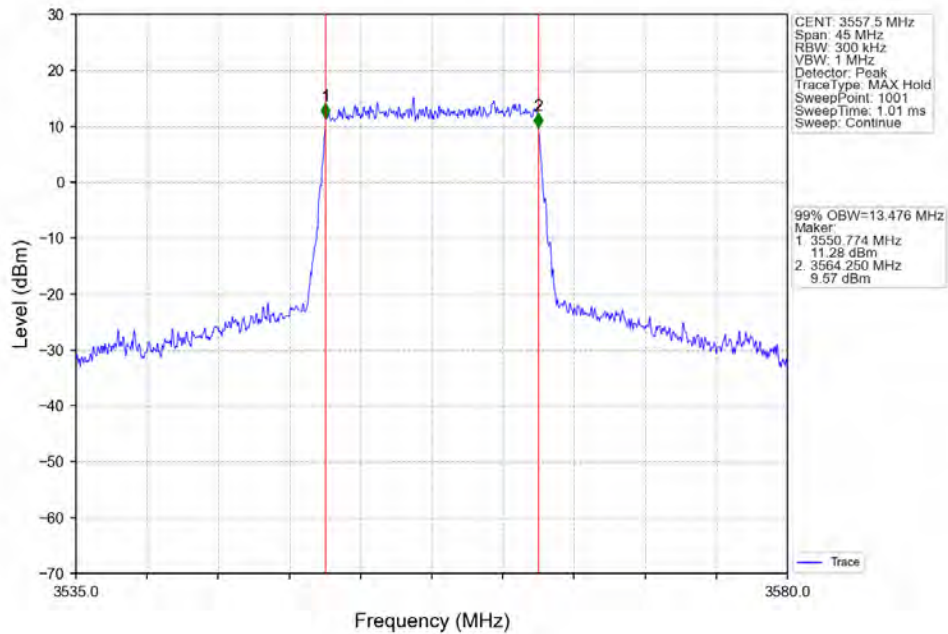
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Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



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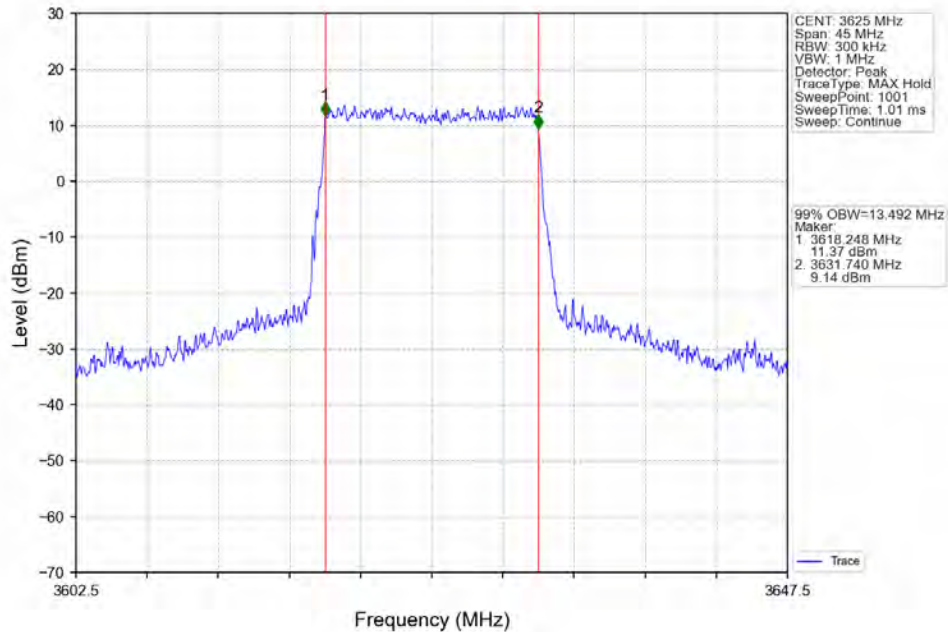
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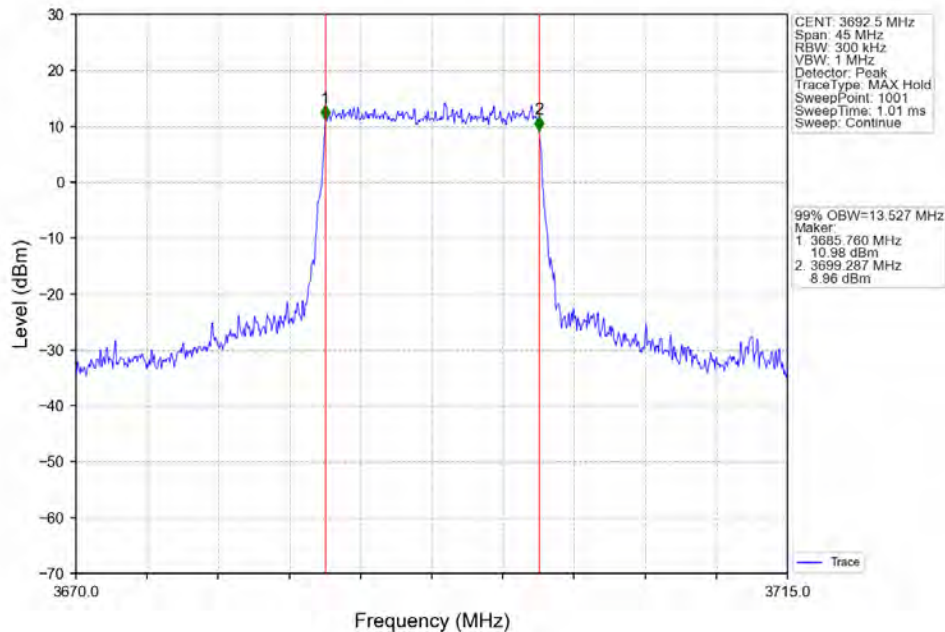
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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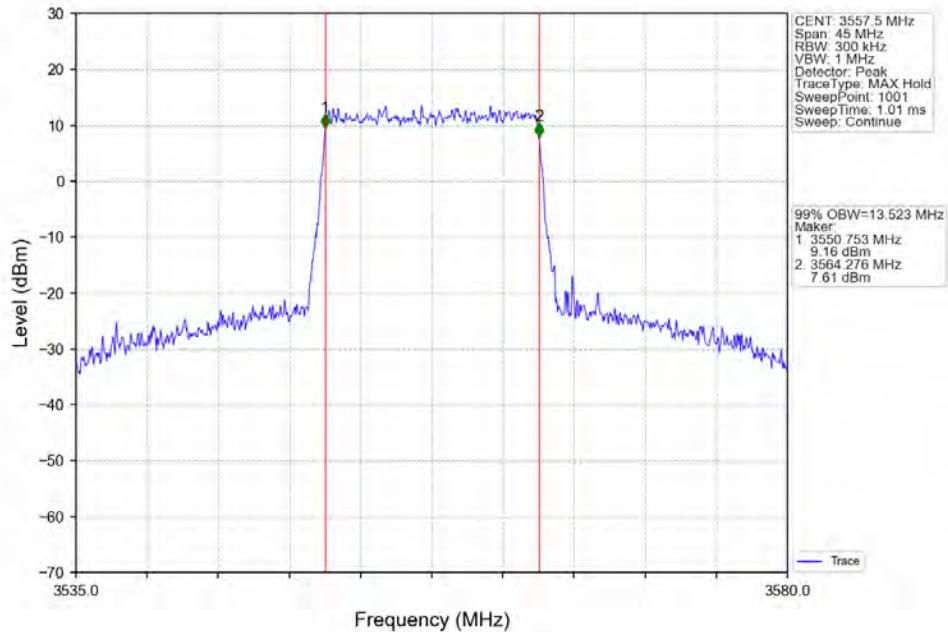
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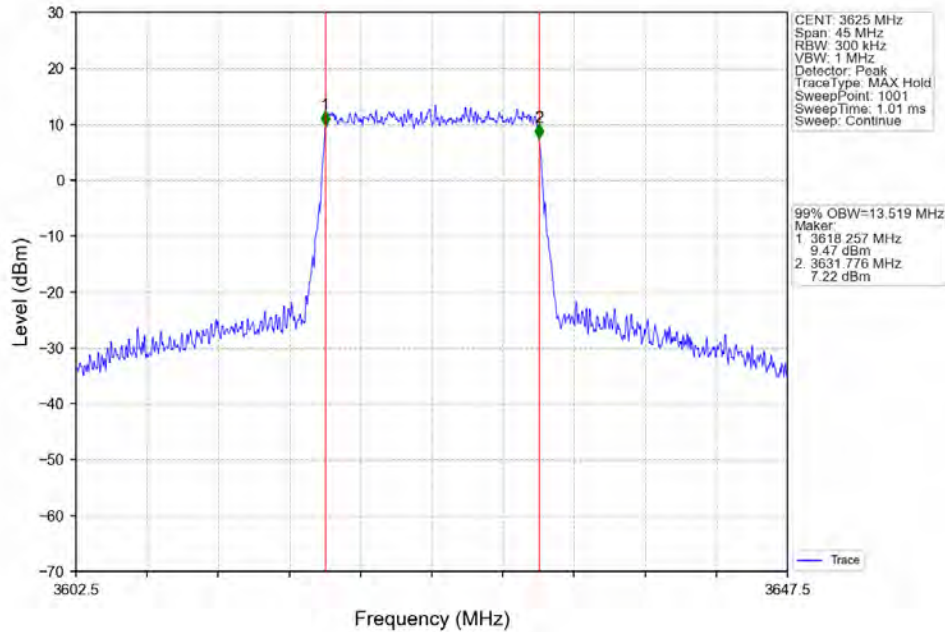
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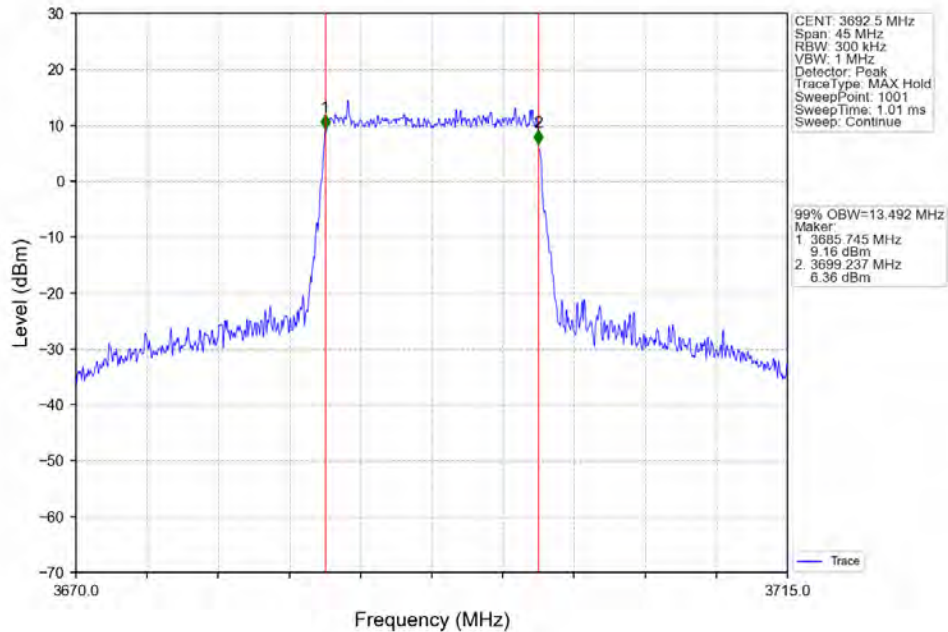
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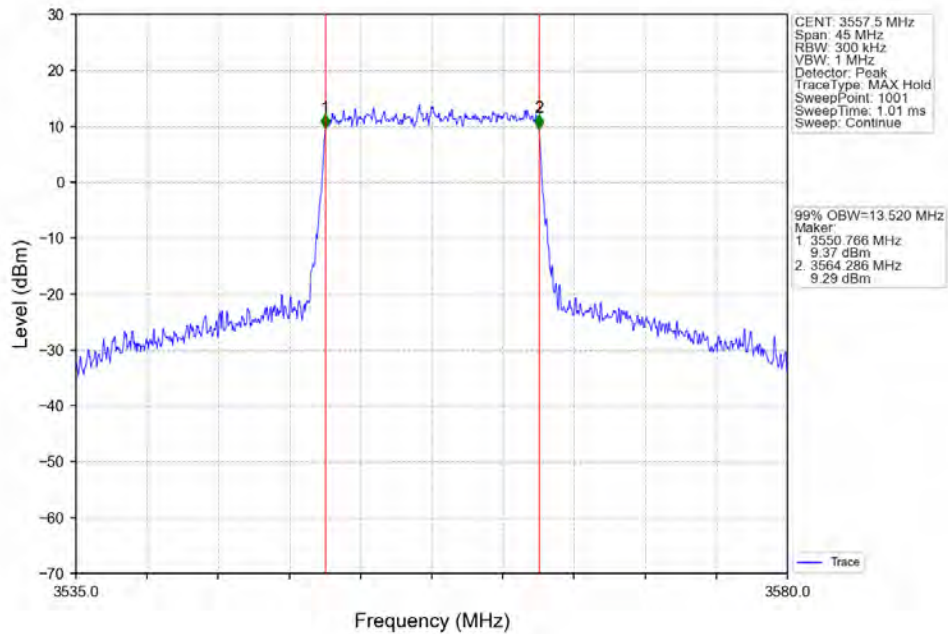
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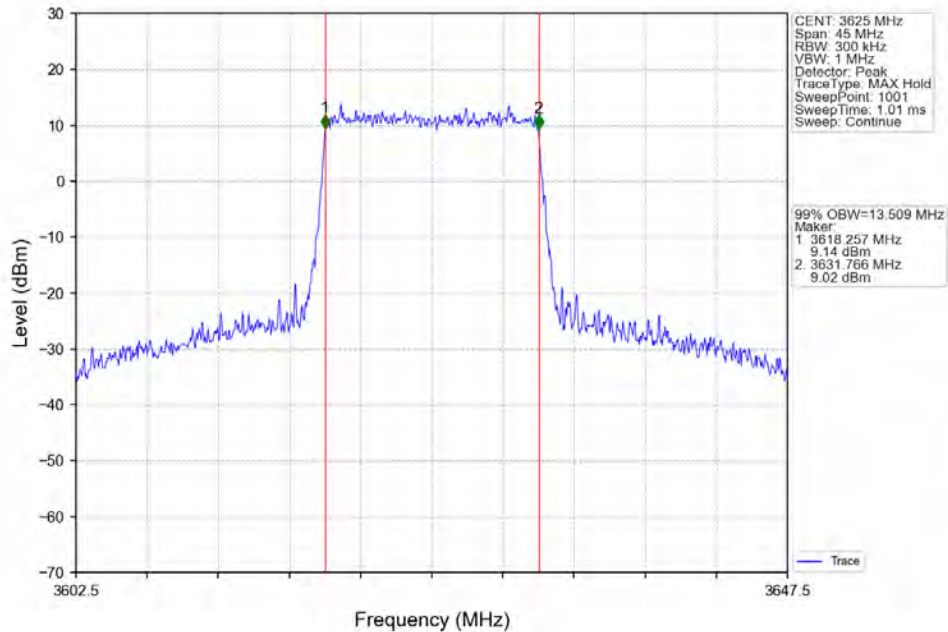
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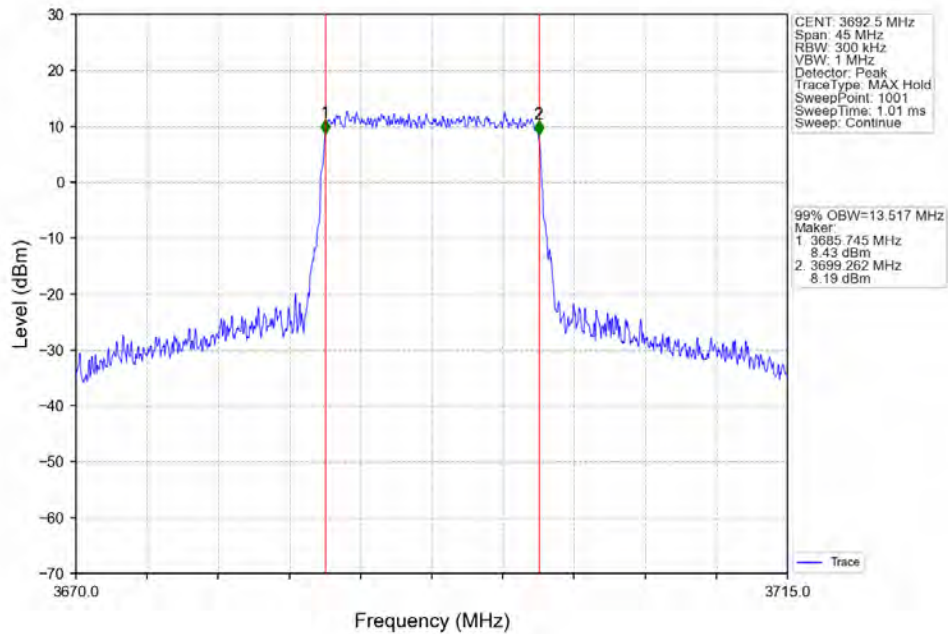
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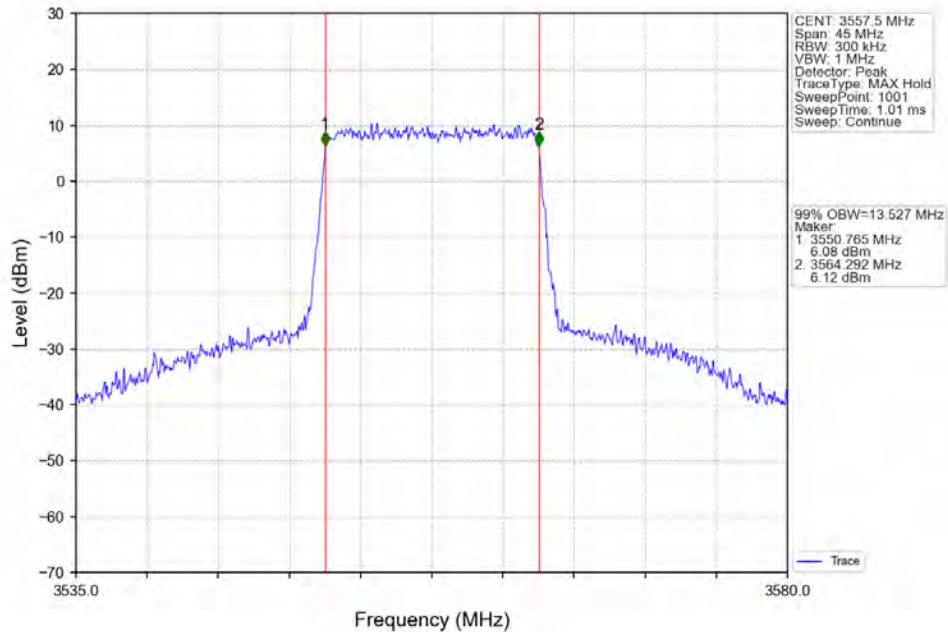
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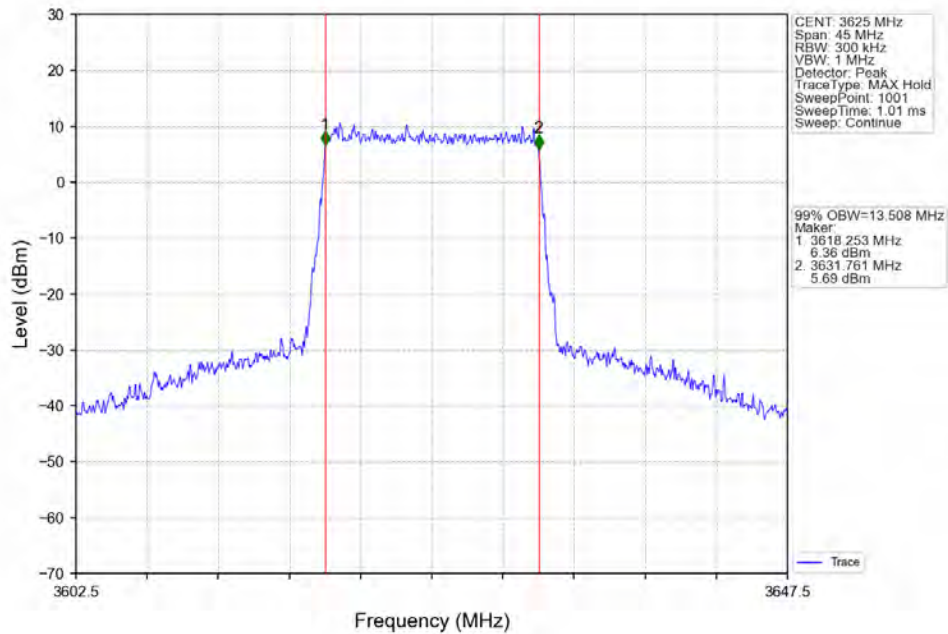
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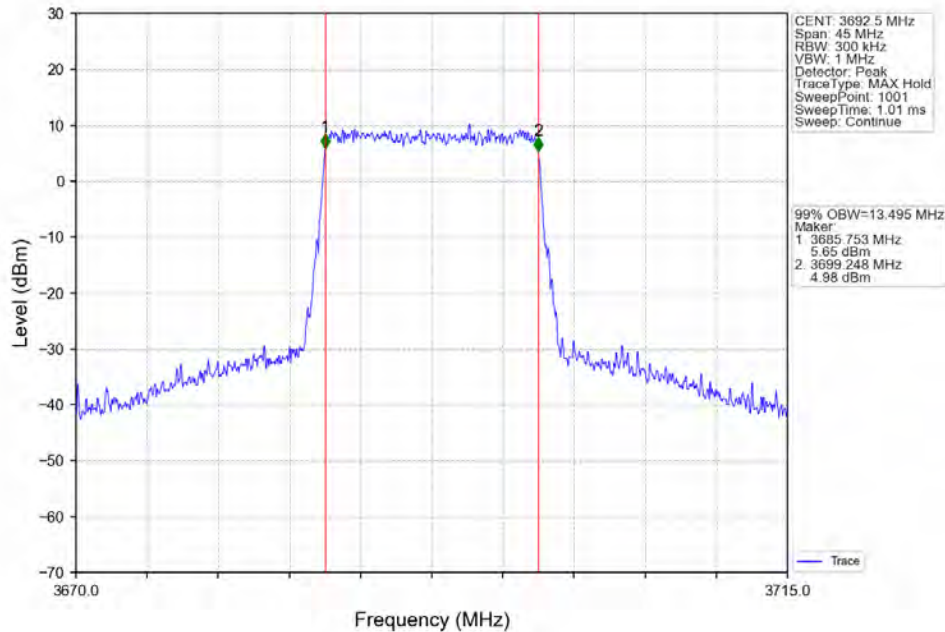
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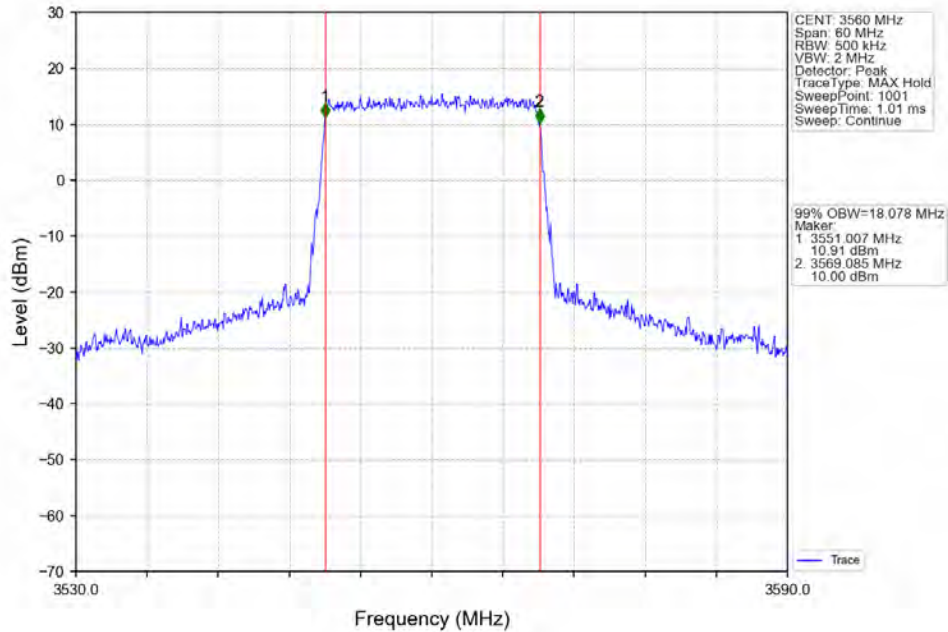
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



Band48 20MHz QPSK MCH 3625MHz RB 100 0 NTN



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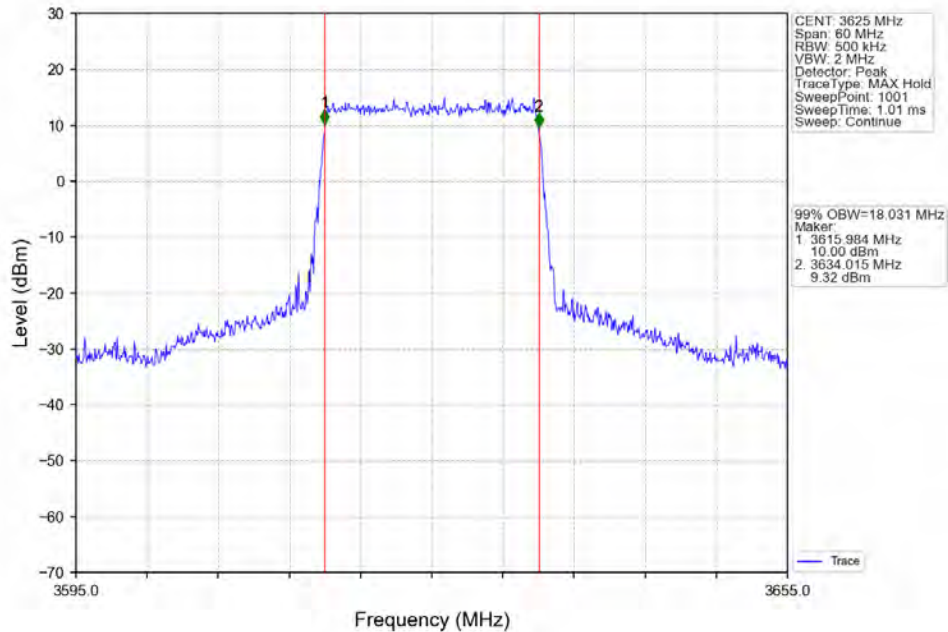
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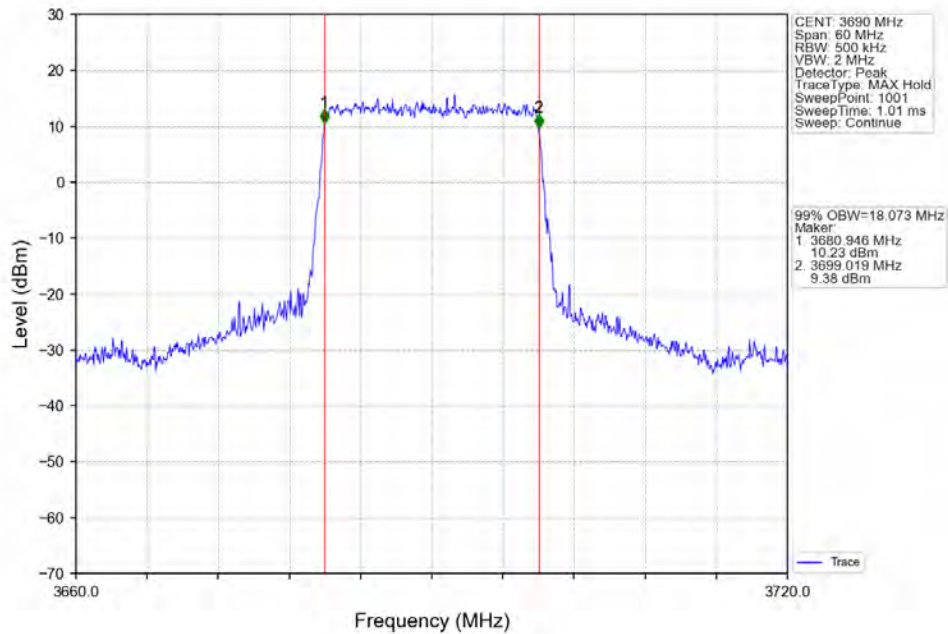
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Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV



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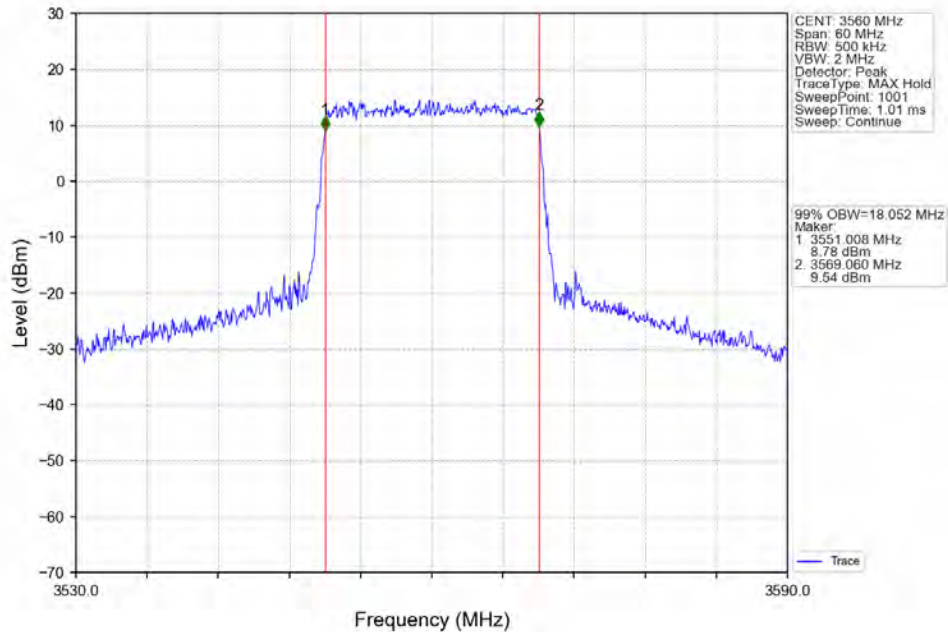
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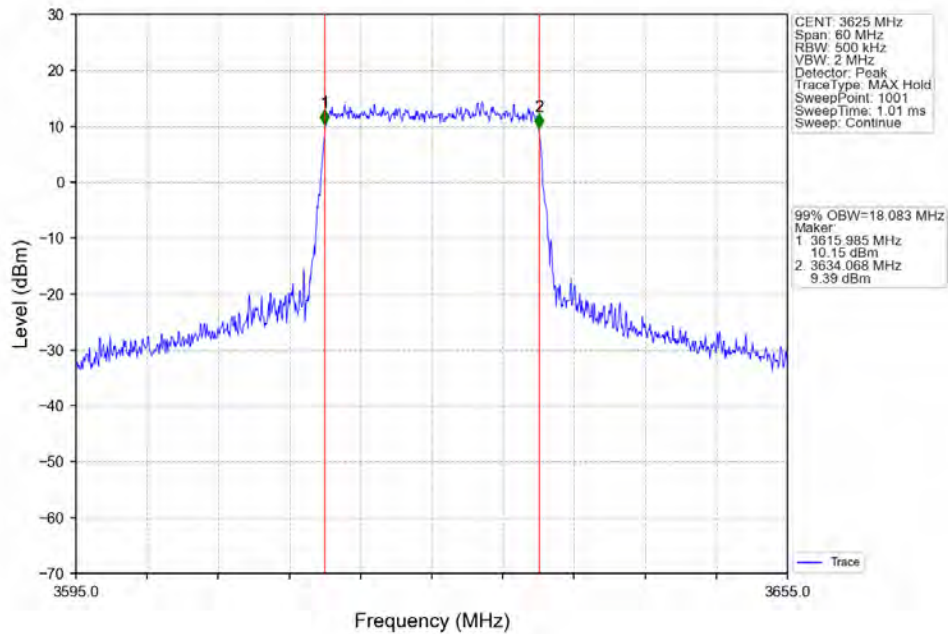
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Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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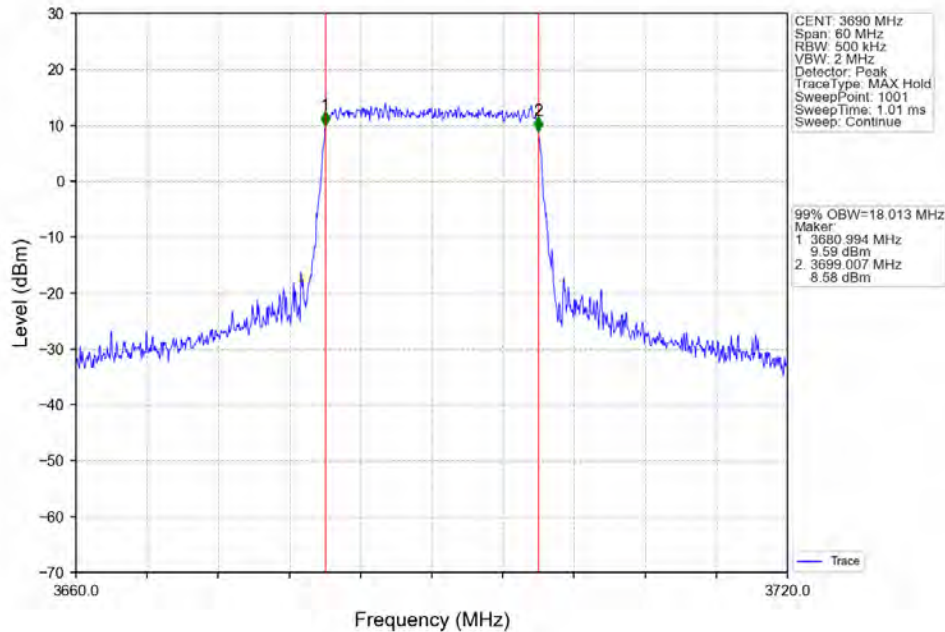
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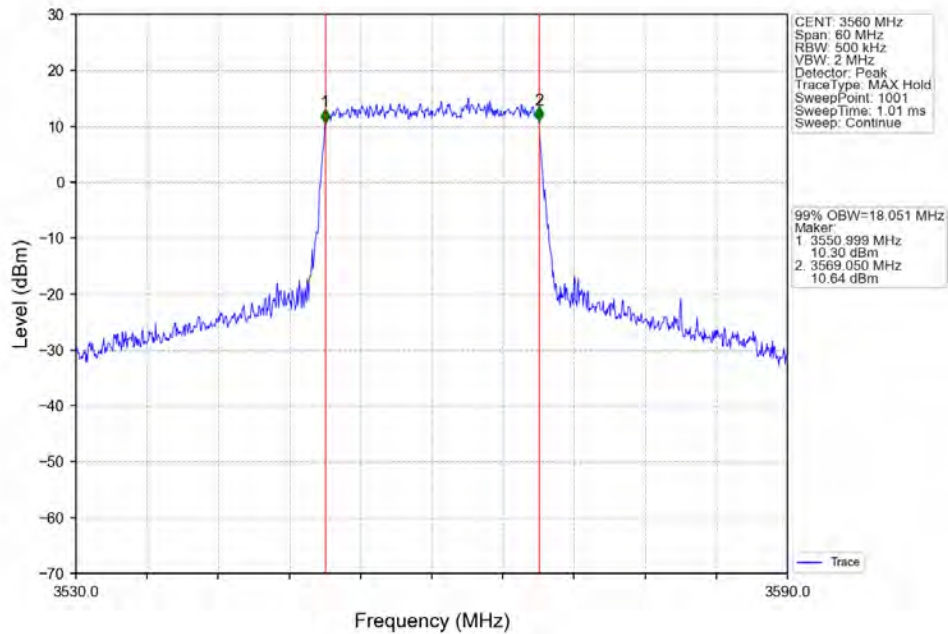
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Band48_20MHz_64QAM_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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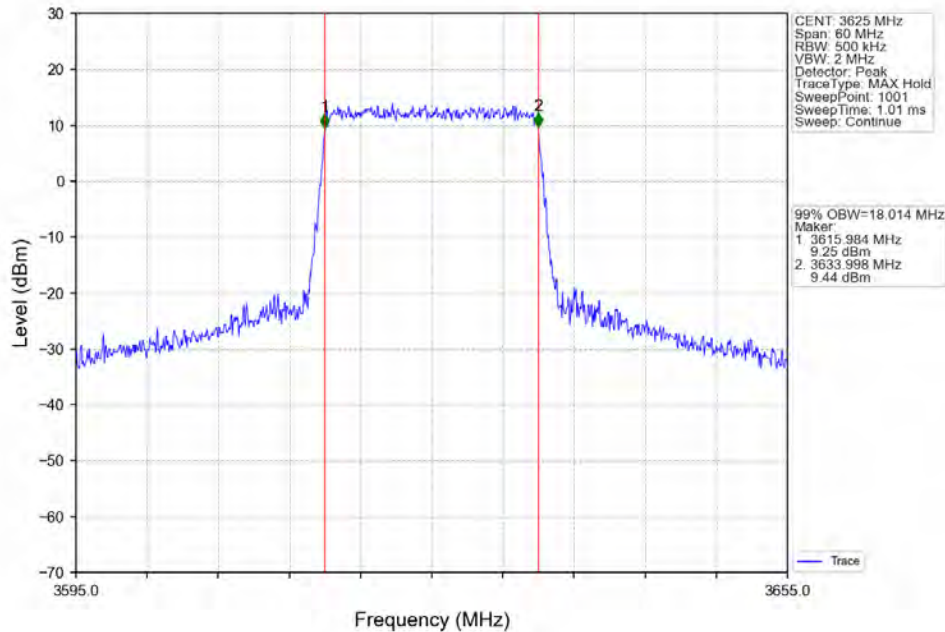
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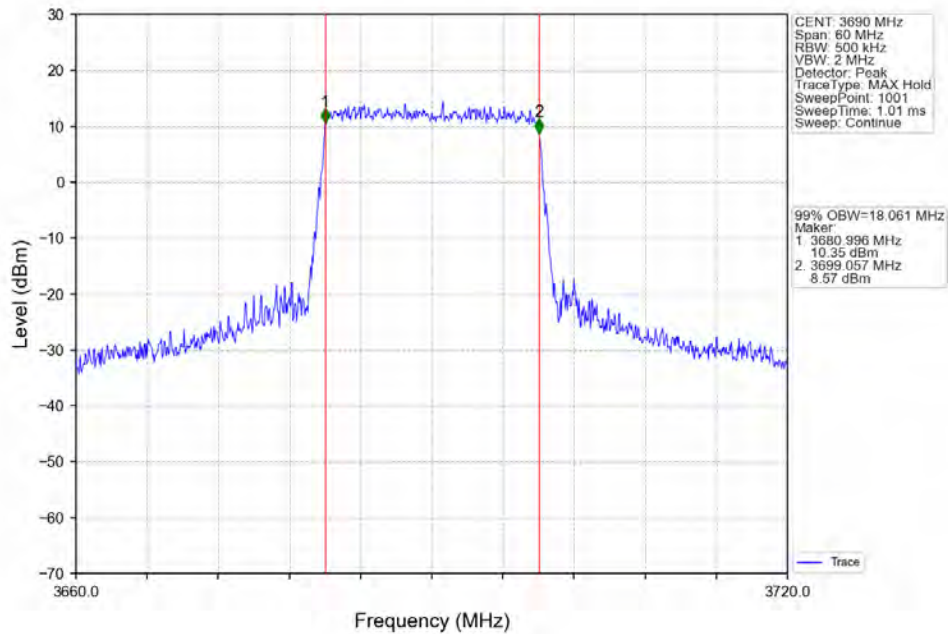
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Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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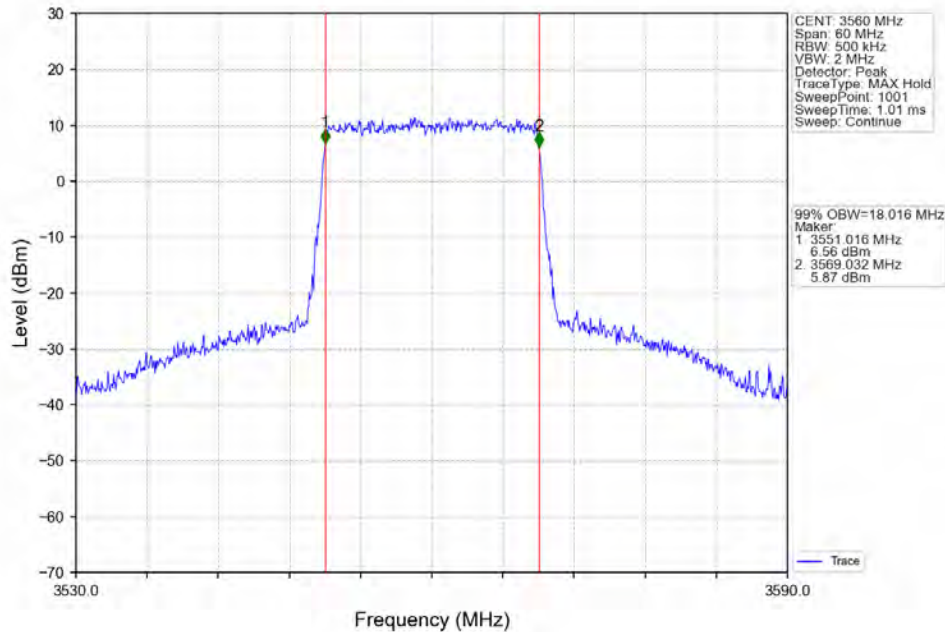
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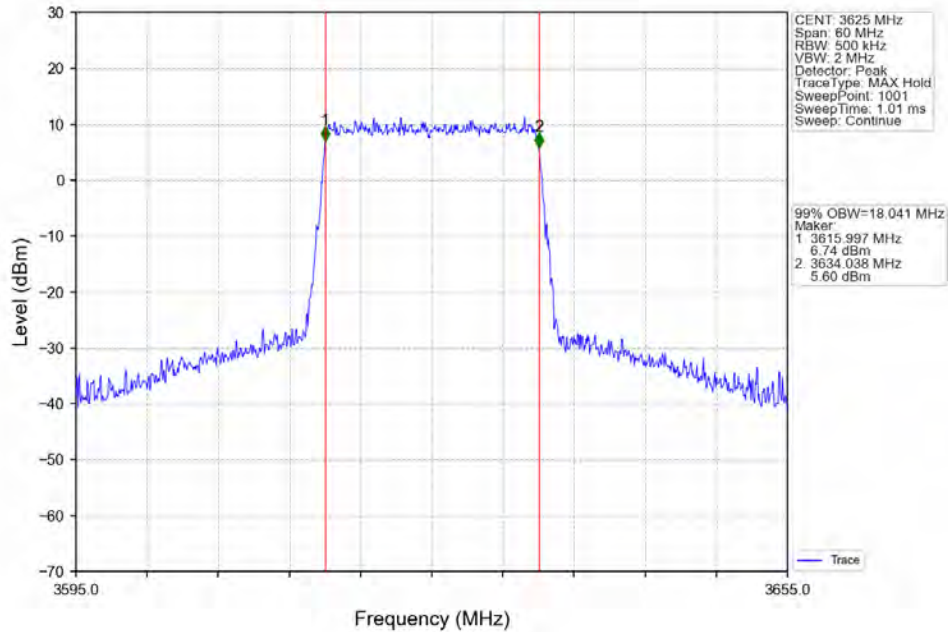
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Band48 20MHz 256QAM MCH 3625MHz RB 100 0 NTN



Band48 20MHz 256QAM HCH 3690MHz RB 100 0 NTN



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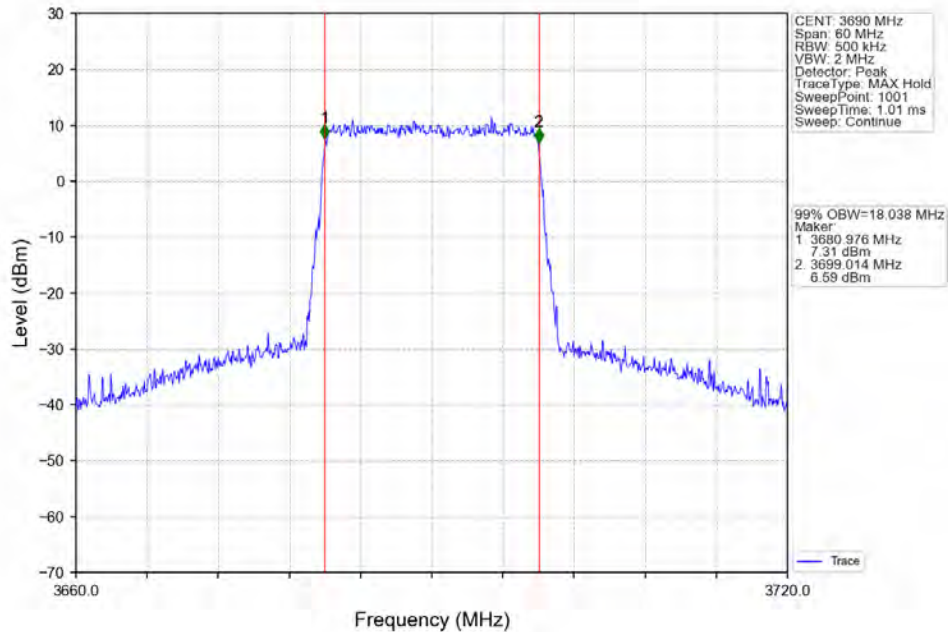
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3.2 Band48_XDB

3.2.1 Test Result

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	5.076	/	Pass
		3625	25	0	5.177	/	Pass
		3697.5	25	0	5.190	/	Pass
	16QAM	3552.5	25	0	5.134	/	Pass
		3625	25	0	5.133	/	Pass
		3697.5	25	0	5.195	/	Pass
	64QAM	3552.5	25	0	5.129	/	Pass
		3625	25	0	5.121	/	Pass
		3697.5	25	0	5.155	/	Pass
	256QAM	3552.5	25	0	5.069	/	Pass
		3625	25	0	5.109	/	Pass
		3697.5	25	0	5.171	/	Pass
10	QPSK	3555	50	0	10.140	/	Pass
		3625	50	0	10.057	/	Pass
		3695	50	0	10.100	/	Pass
	16QAM	3555	50	0	10.048	/	Pass
		3625	50	0	10.076	/	Pass
		3695	50	0	9.986	/	Pass
	64QAM	3555	50	0	10.041	/	Pass
		3625	50	0	10.093	/	Pass
		3695	50	0	9.995	/	Pass
	256QAM	3555	50	0	10.011	/	Pass
		3625	50	0	10.030	/	Pass
		3695	50	0	10.043	/	Pass
15	QPSK	3557.5	75	0	14.846	/	Pass
		3625	75	0	15.089	/	Pass
		3692.5	75	0	14.733	/	Pass
	16QAM	3557.5	75	0	14.908	/	Pass
		3625	75	0	14.830	/	Pass
		3692.5	75	0	14.774	/	Pass
	64QAM	3557.5	75	0	14.775	/	Pass
		3625	75	0	14.829	/	Pass
		3692.5	75	0	14.956	/	Pass
	256QAM	3557.5	75	0	14.825	/	Pass
		3625	75	0	14.763	/	Pass
		3692.5	75	0	14.888	/	Pass
20	QPSK	3560	100	0	20.025	/	Pass
		3625	100	0	19.786	/	Pass
		3690	100	0	19.863	/	Pass



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	16QAM	3560	100	0	19.745	/	Pass
		3625	100	0	20.027	/	Pass
		3690	100	0	19.752	/	Pass
	64QAM	3560	100	0	19.778	/	Pass
		3625	100	0	19.799	/	Pass
		3690	100	0	19.839	/	Pass
	256QAM	3560	100	0	19.882	/	Pass
		3625	100	0	19.888	/	Pass
		3690	100	0	19.820	/	Pass



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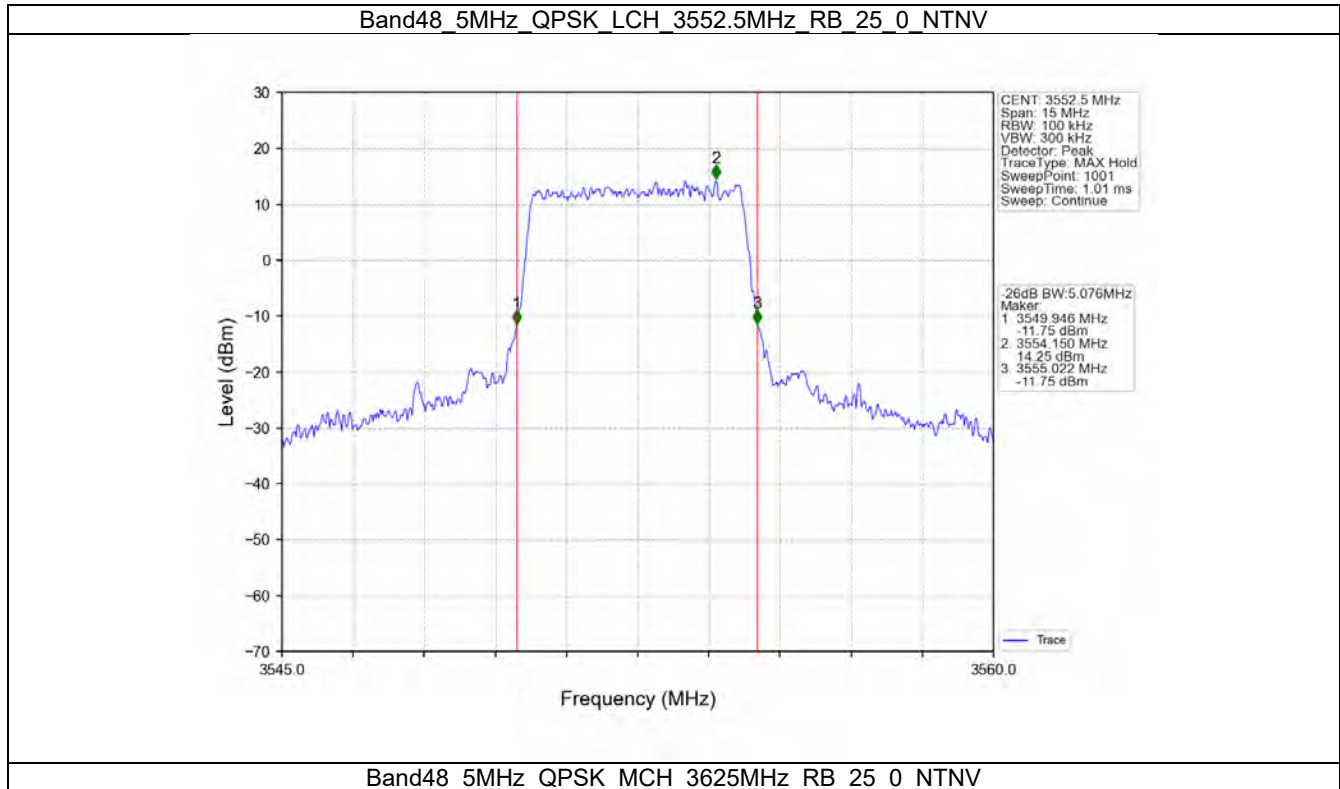
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3.2.2 Test Graph



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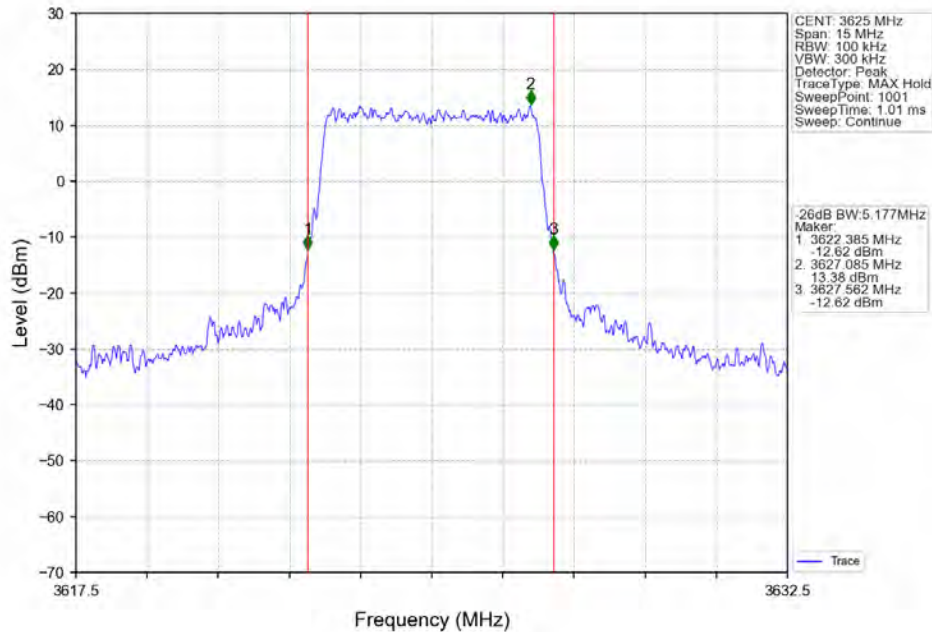
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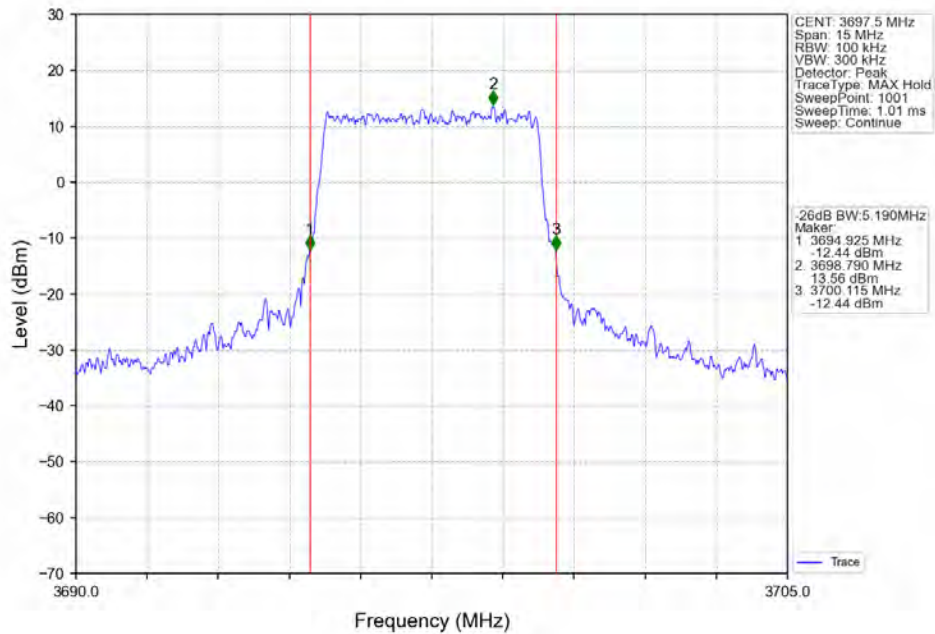
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV



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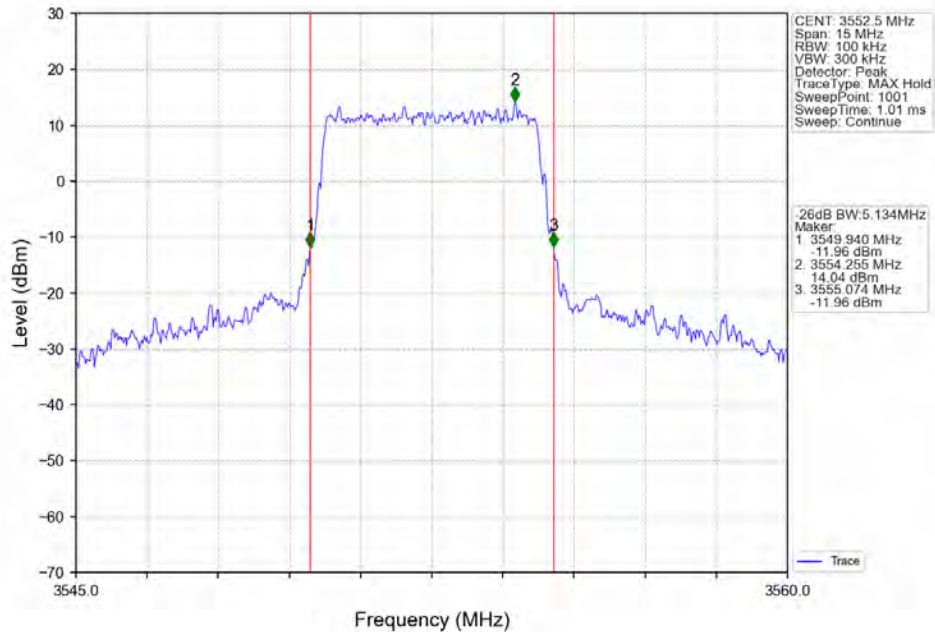
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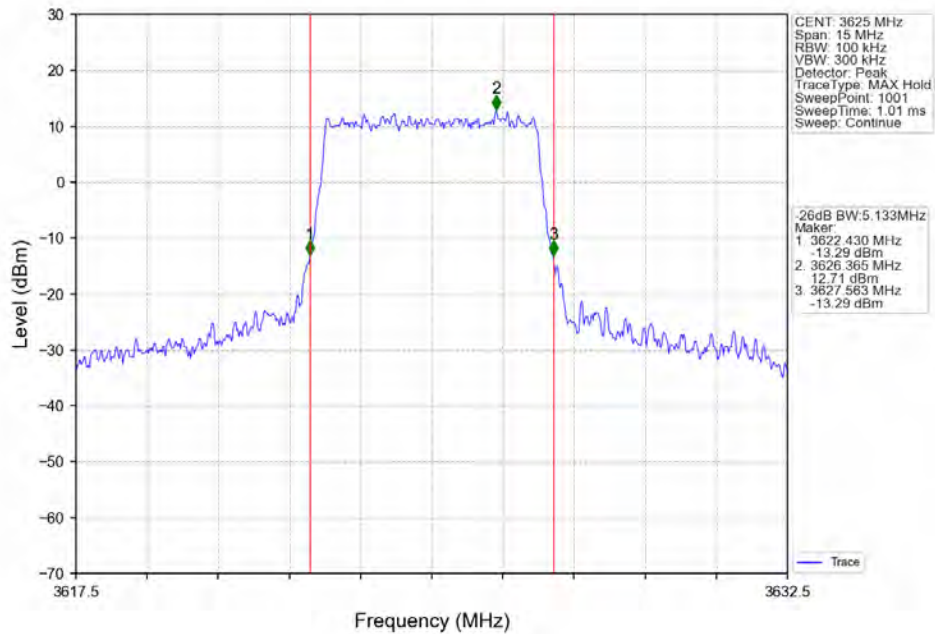
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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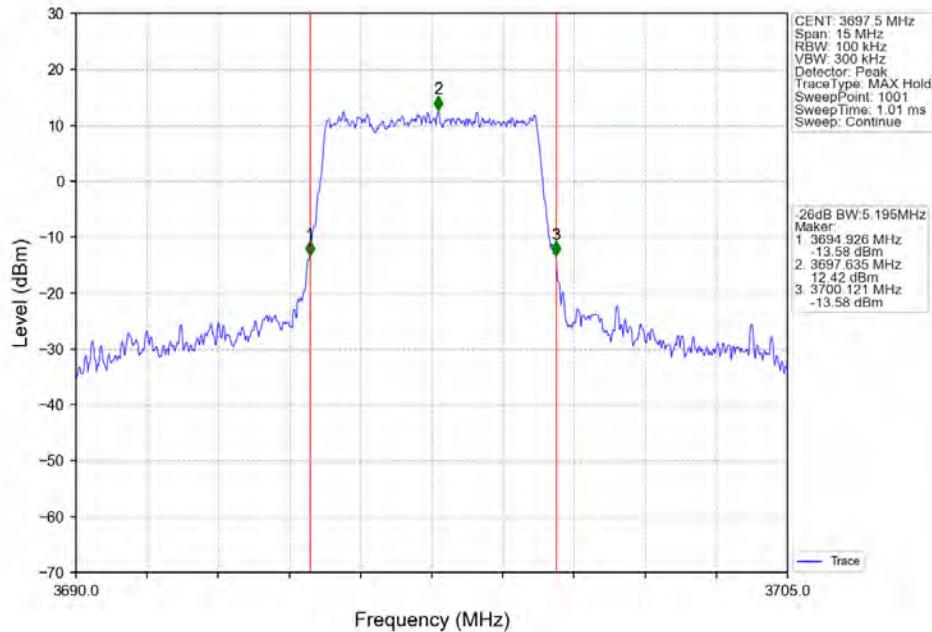
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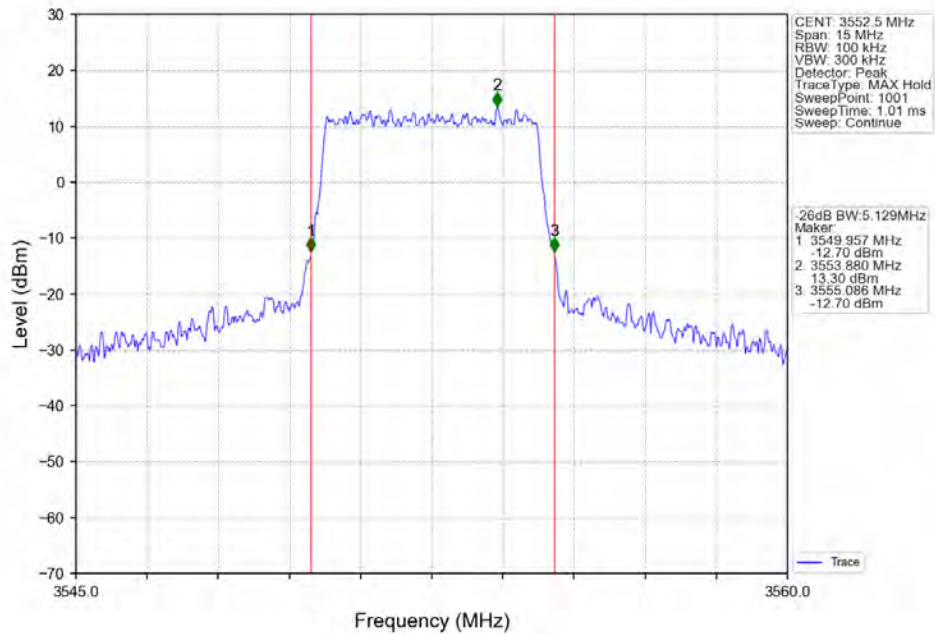
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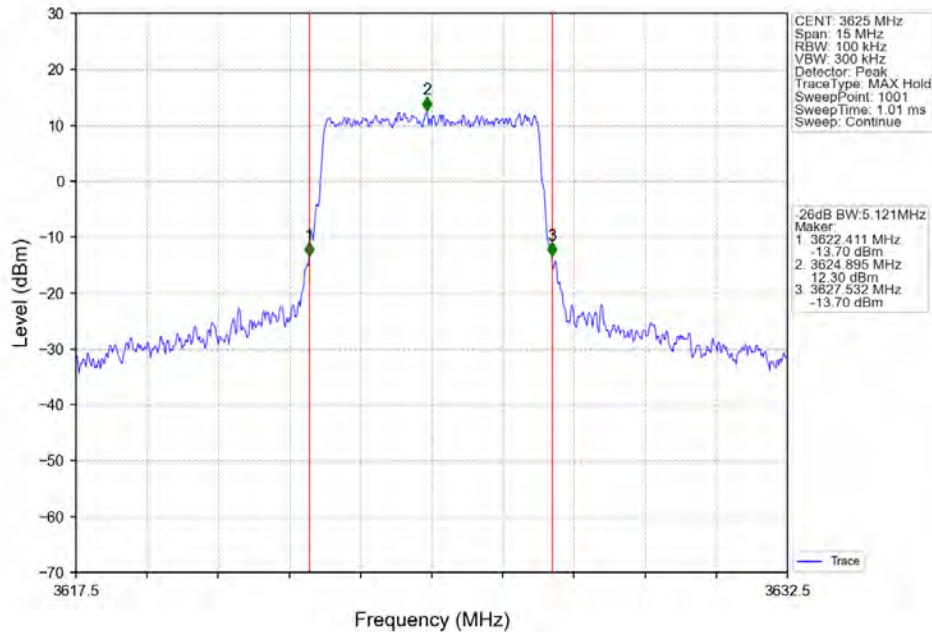
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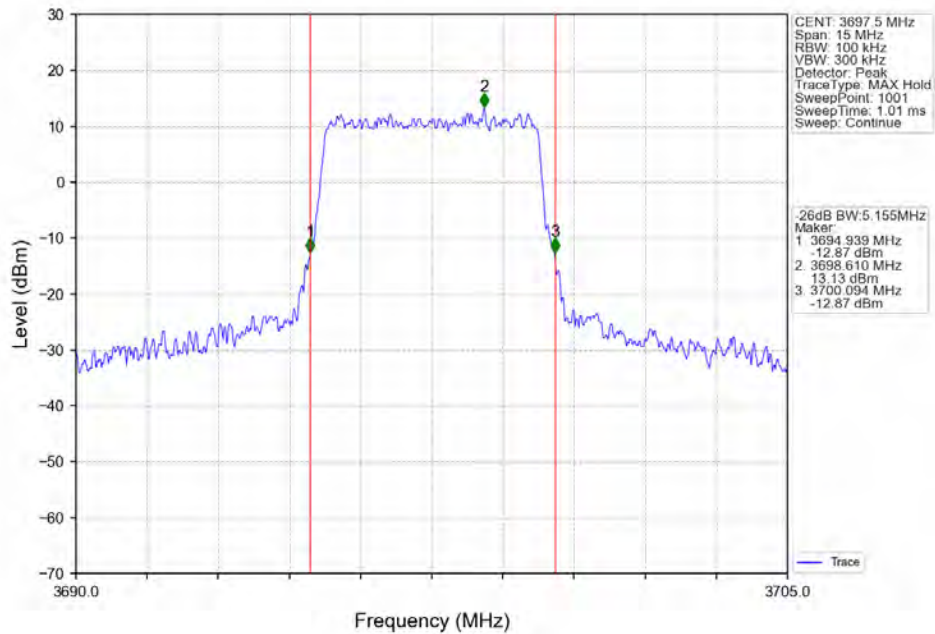
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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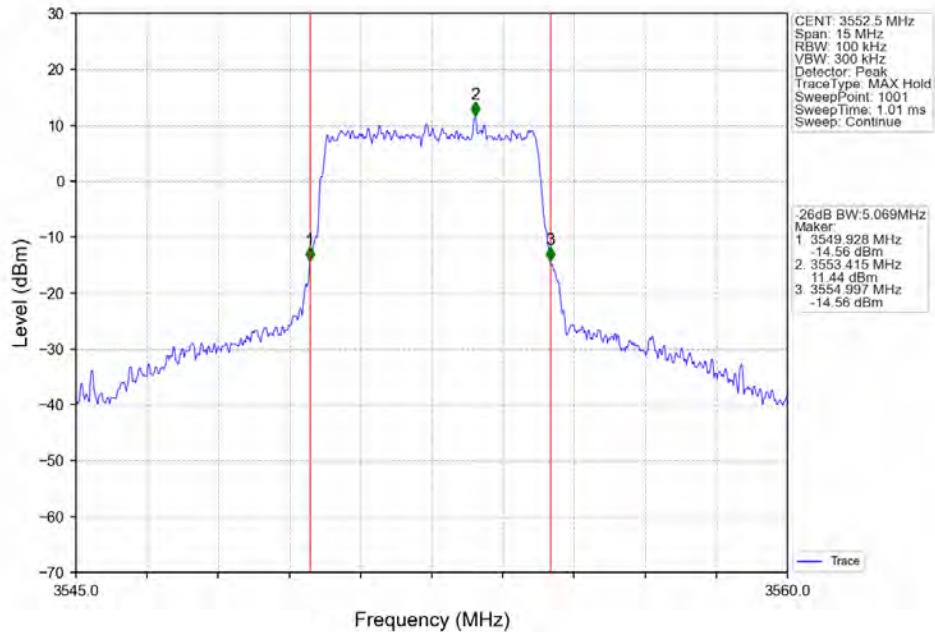
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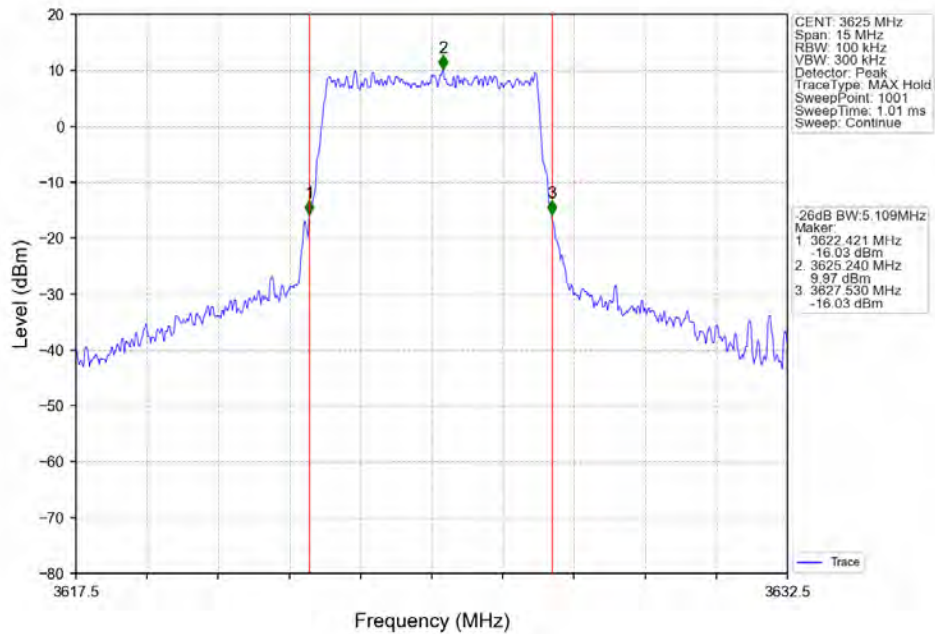
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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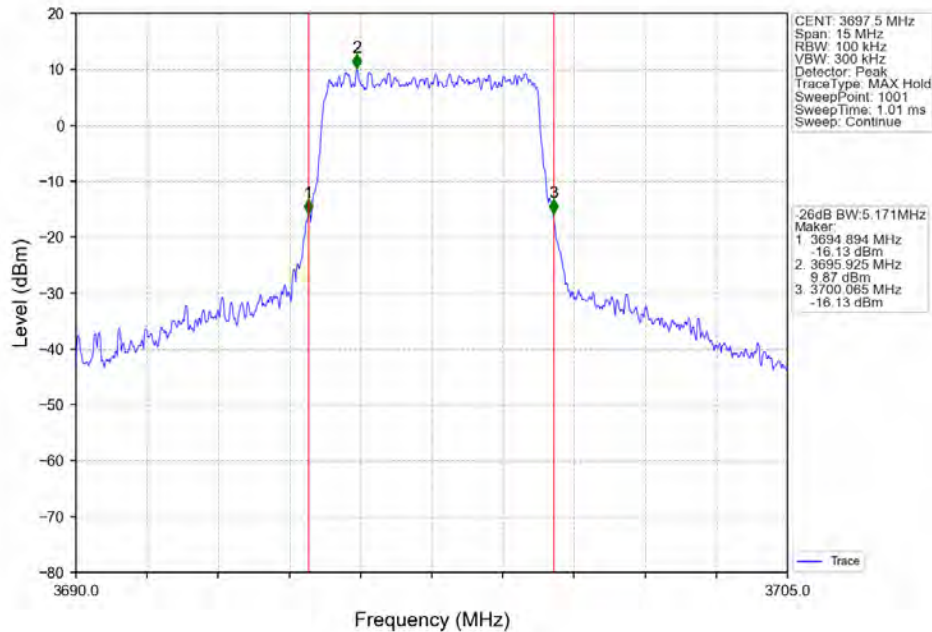
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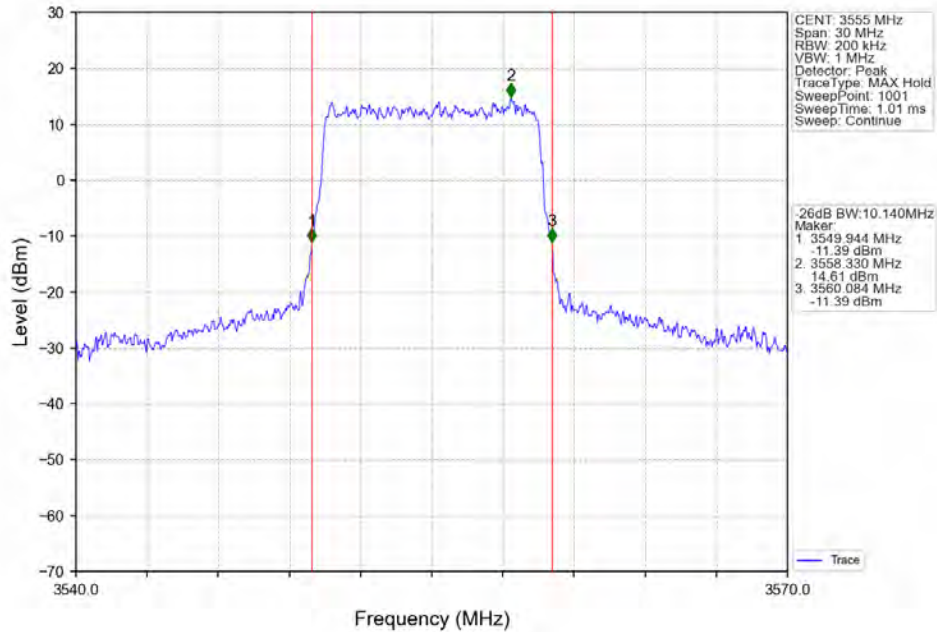
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Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



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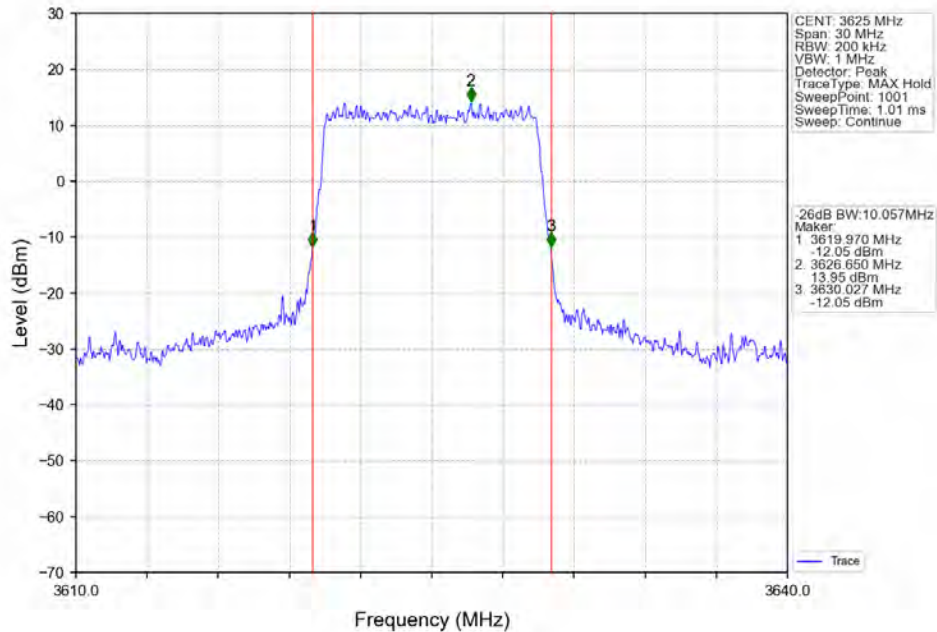
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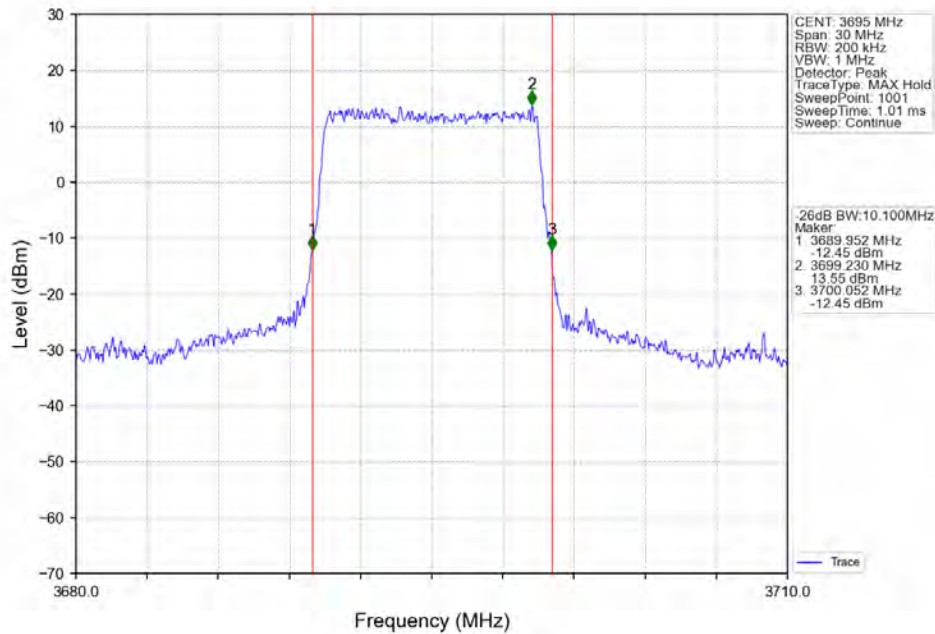
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Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



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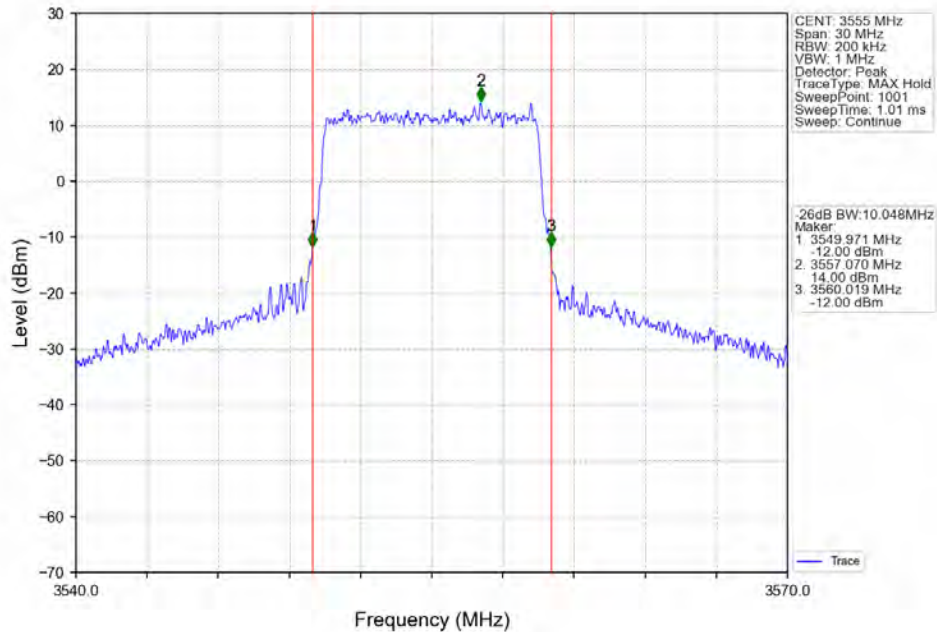
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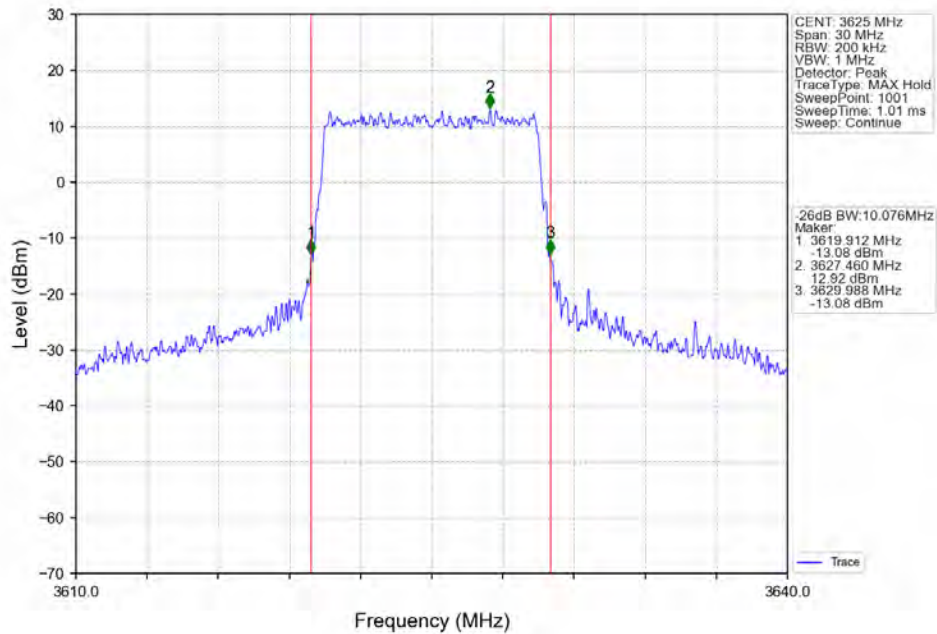
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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTN



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTN



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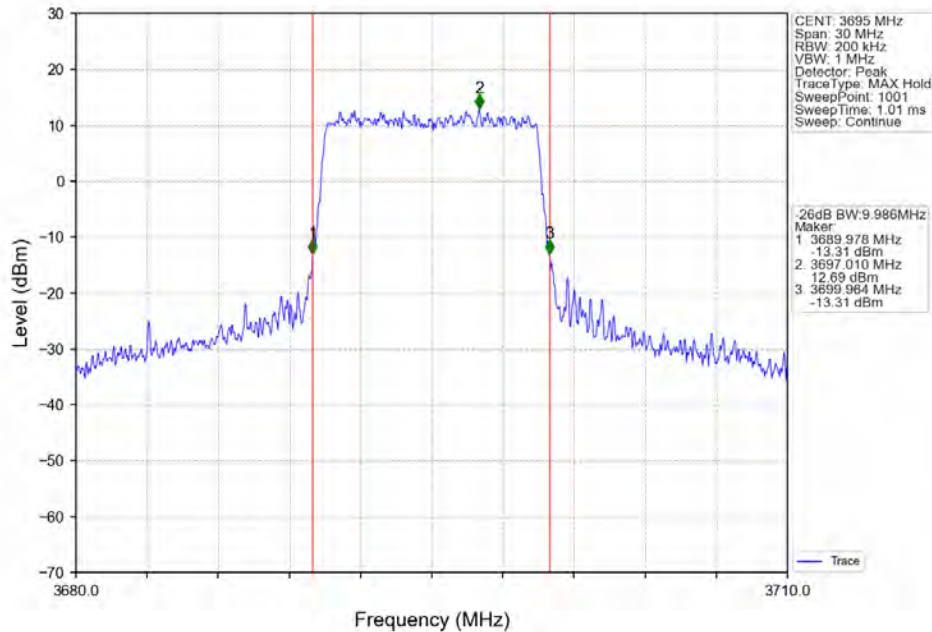
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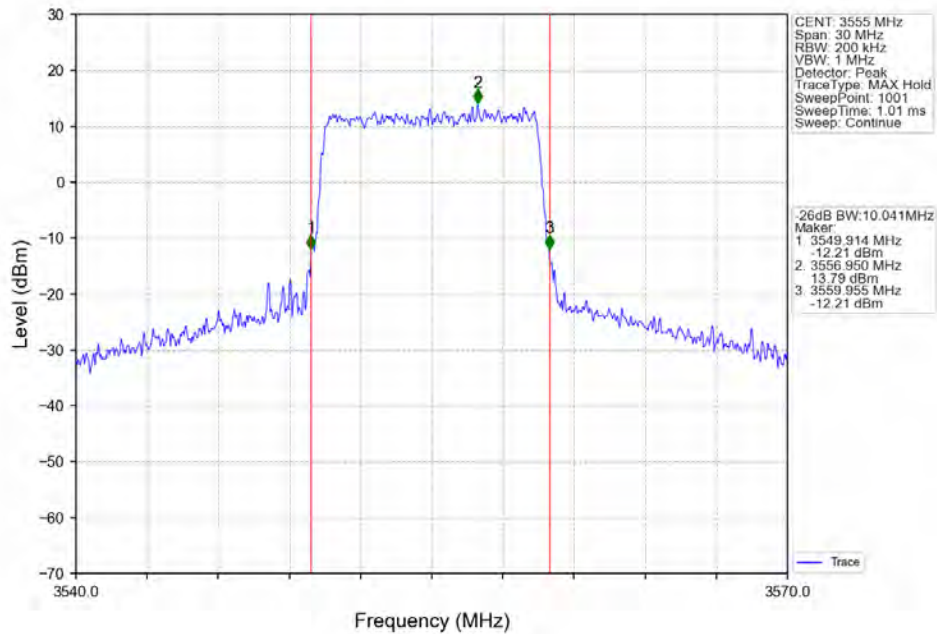
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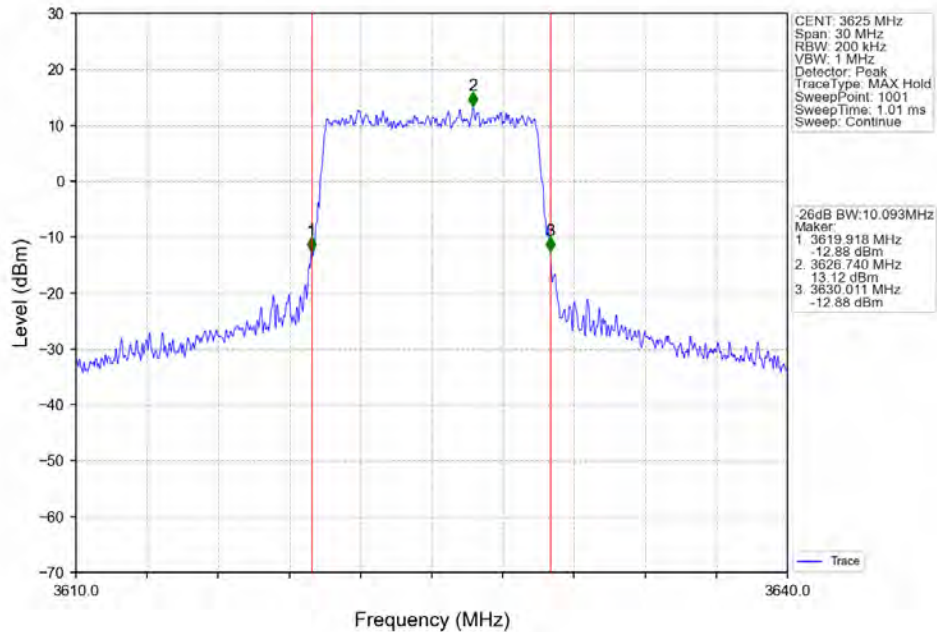
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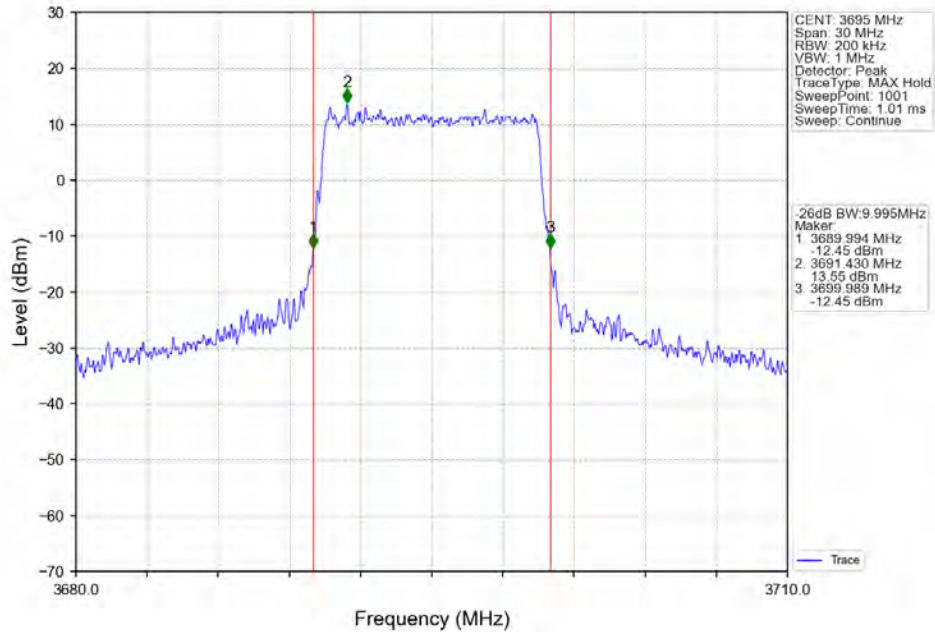
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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



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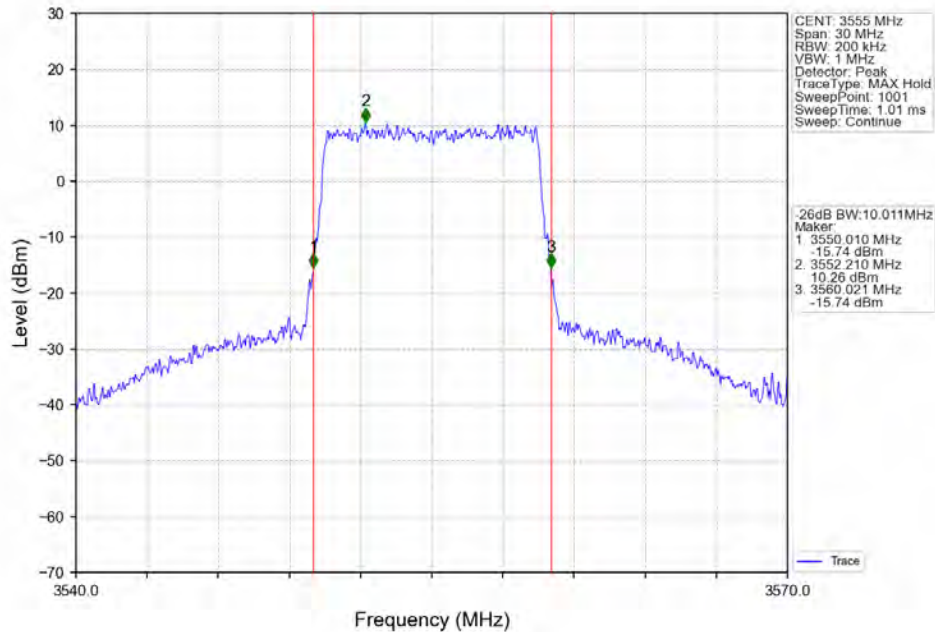
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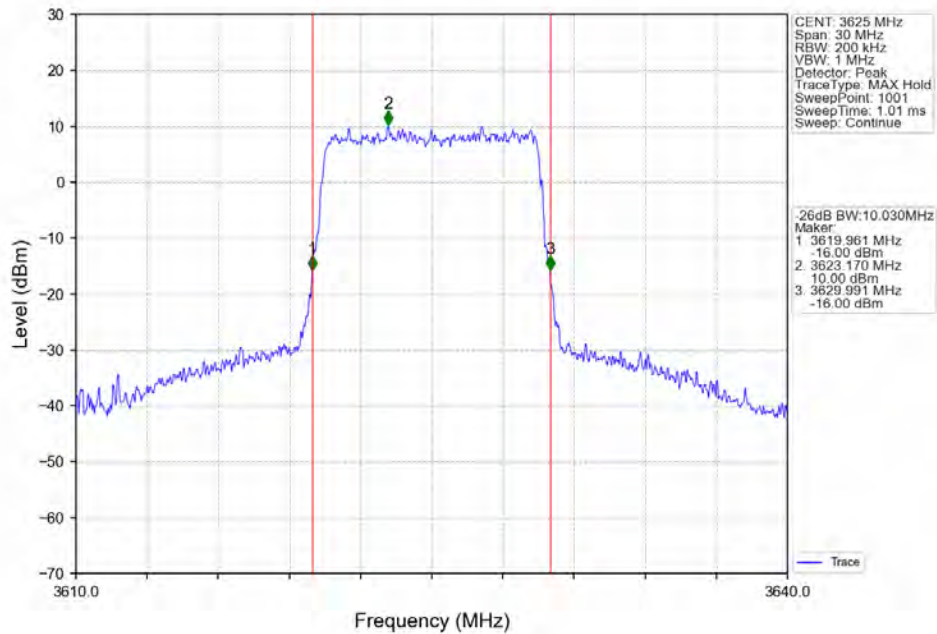
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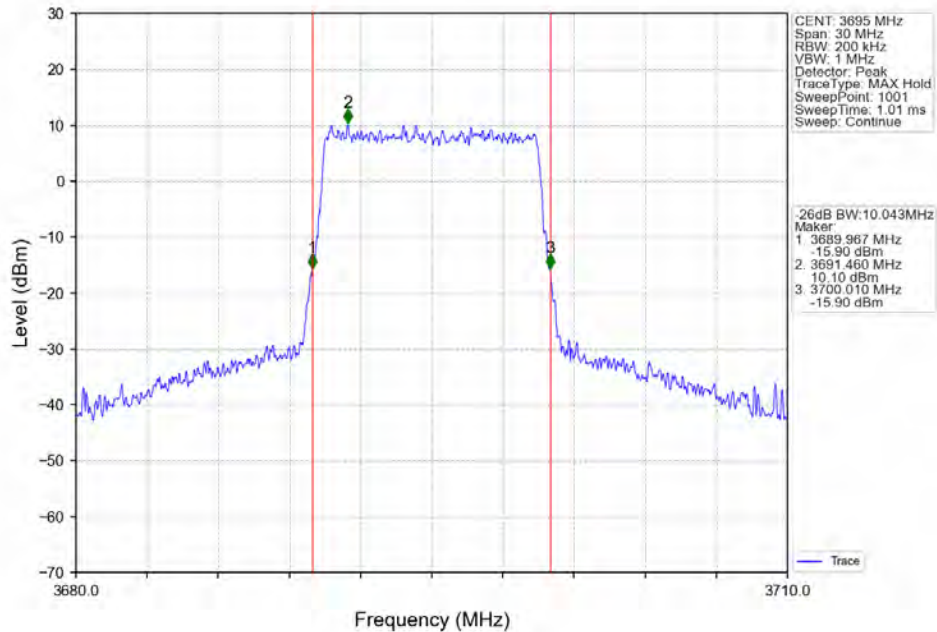
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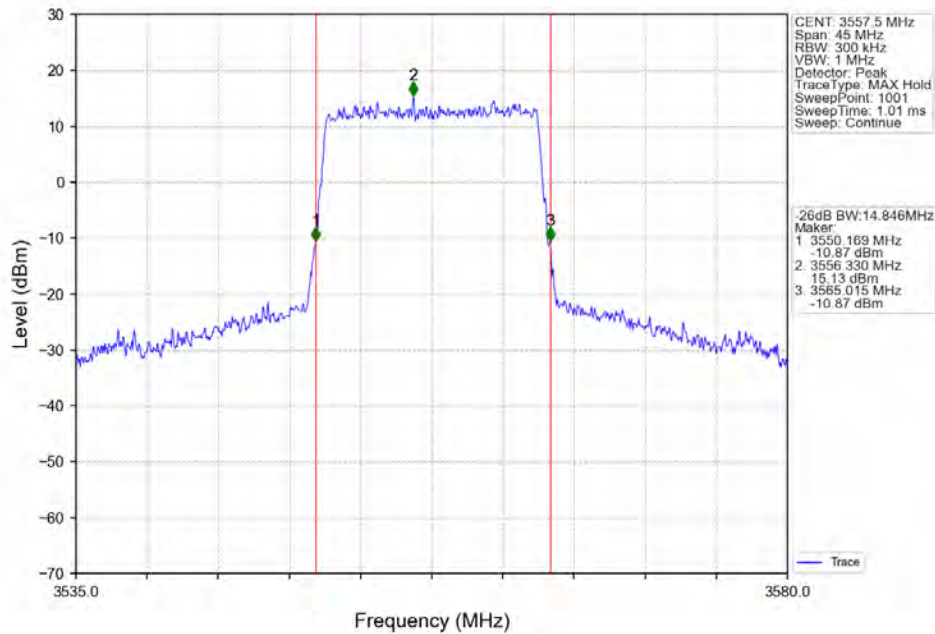
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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTNV



Band48 15MHz QPSK MCH 3625MHz RB 75 0 NTNV



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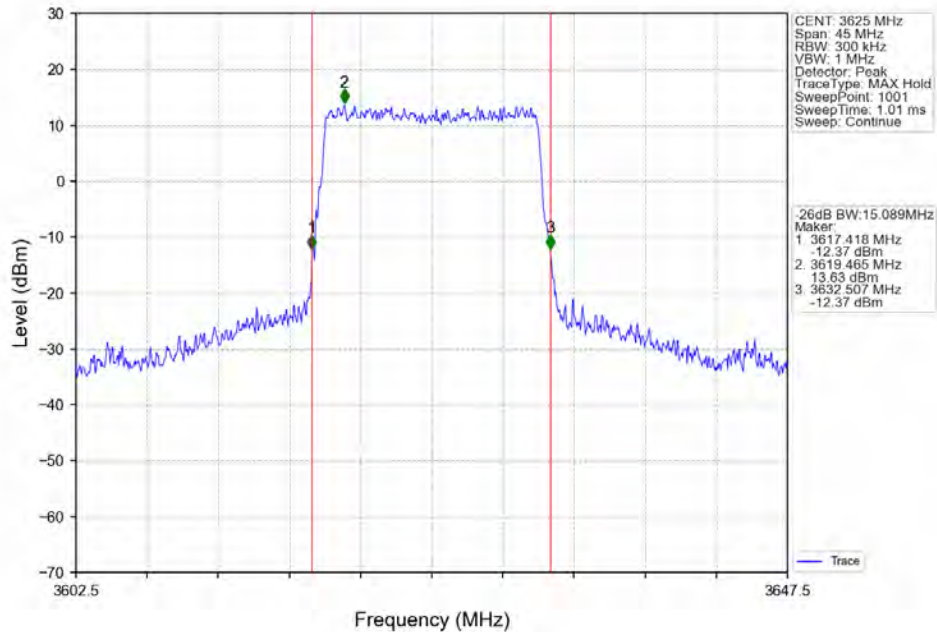
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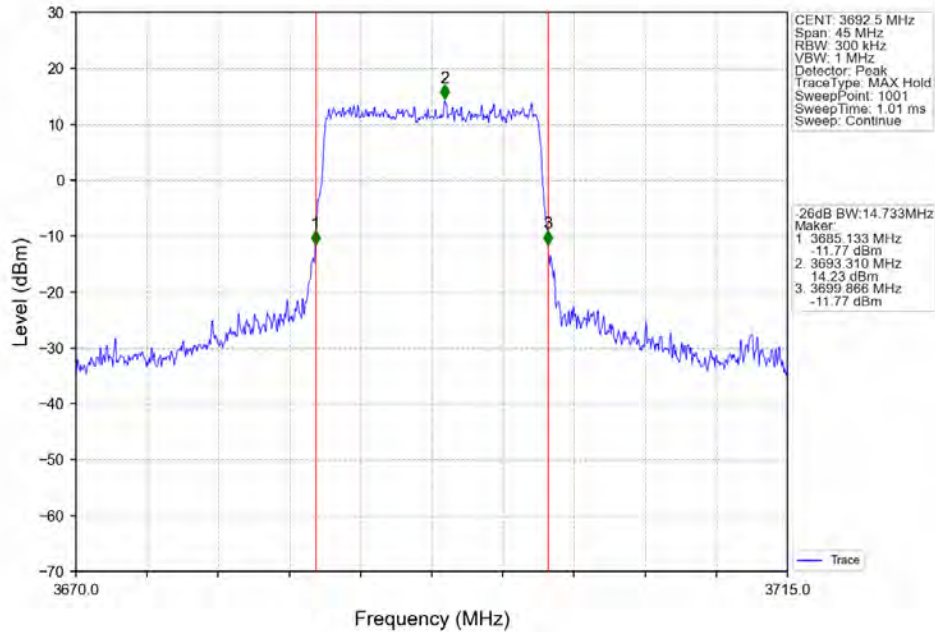
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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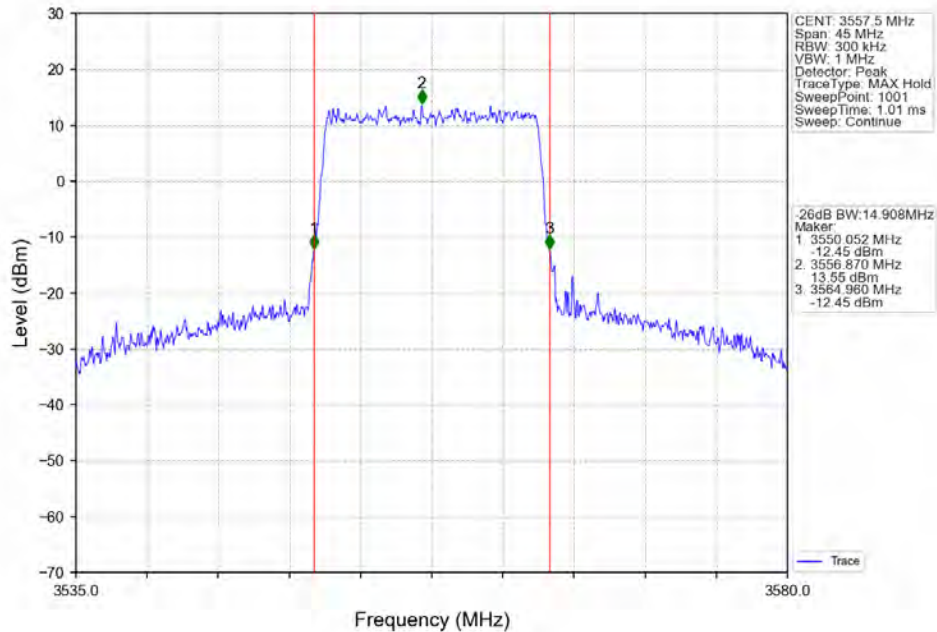
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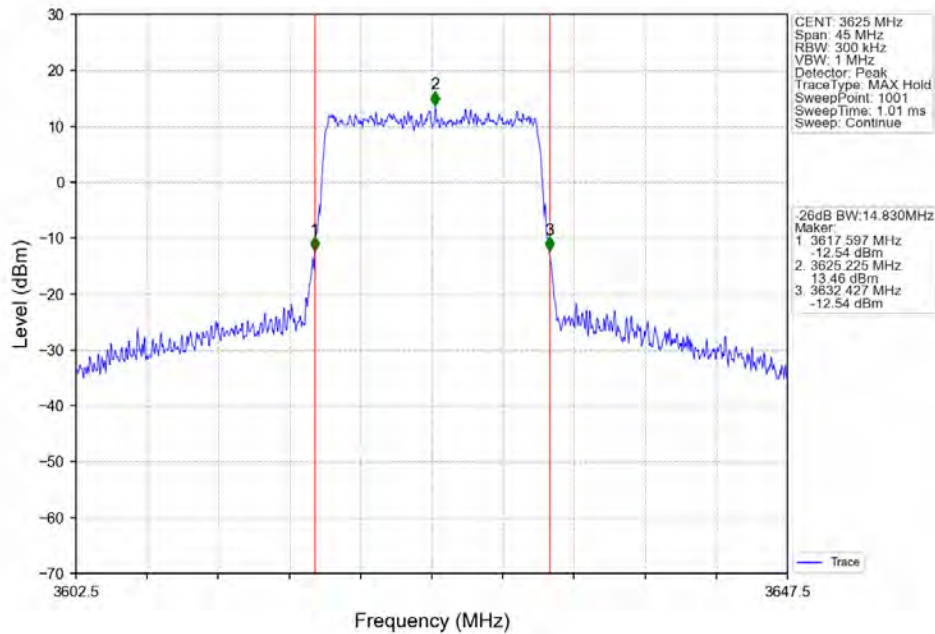
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Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV



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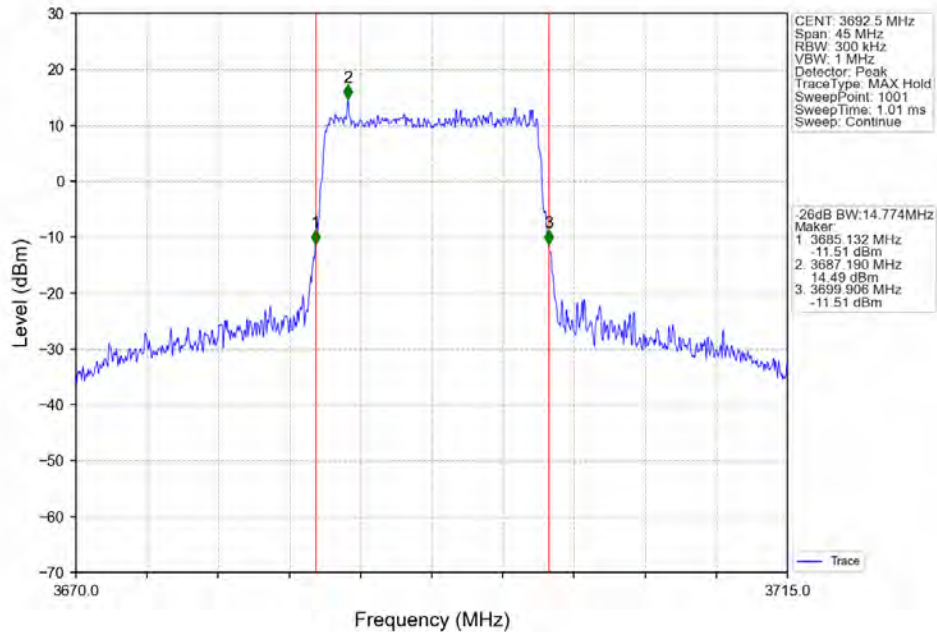
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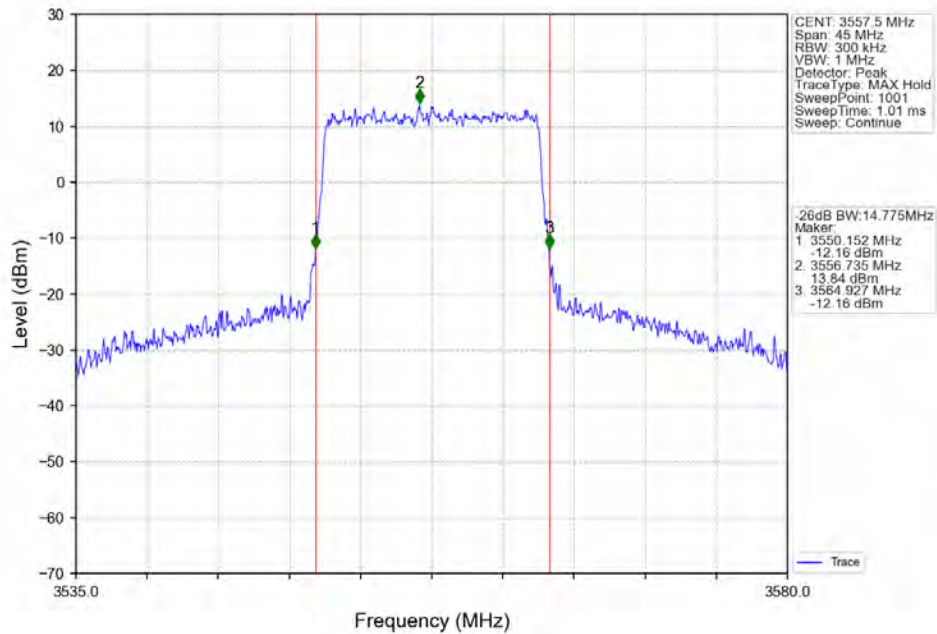
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Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV



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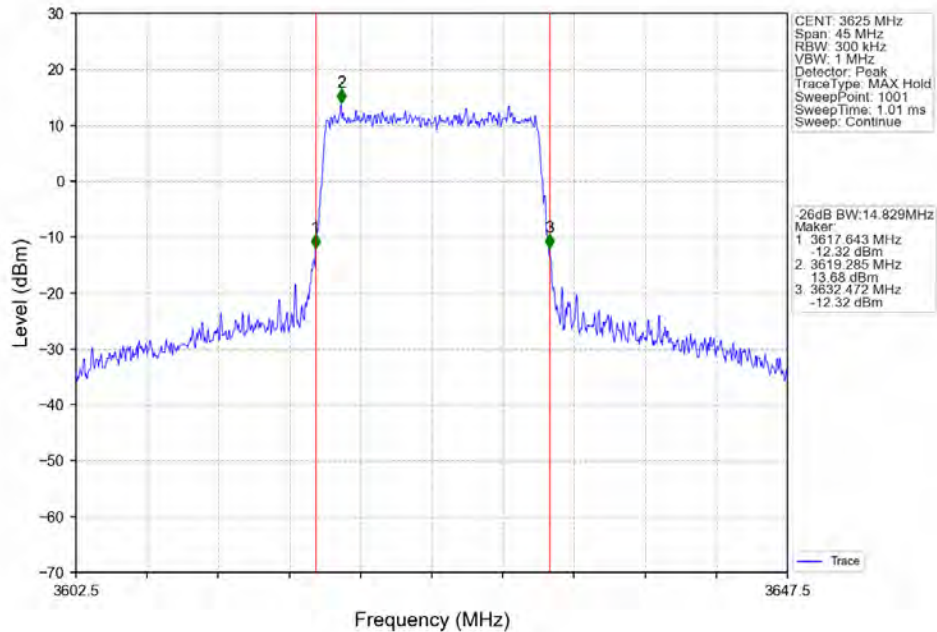
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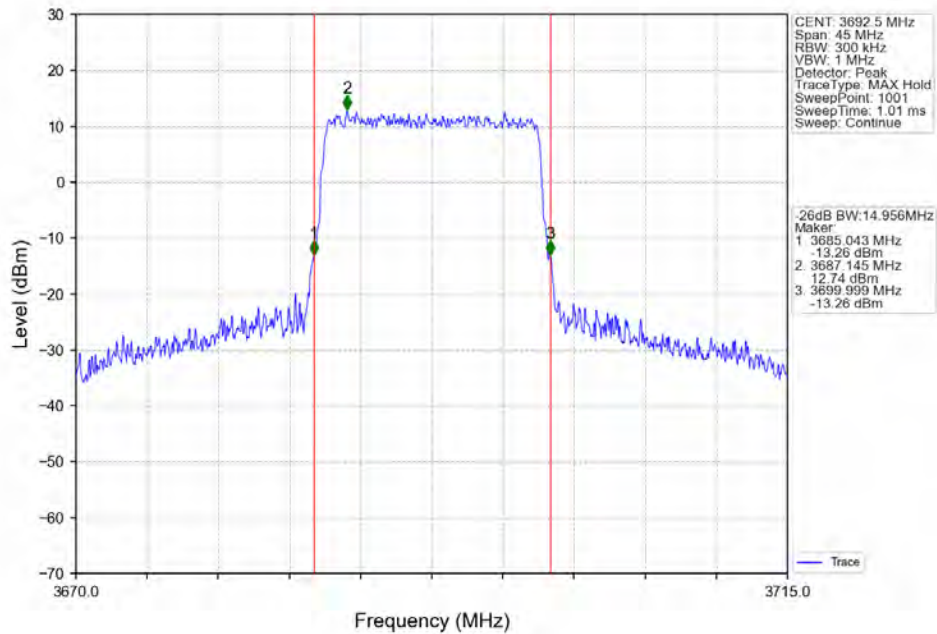
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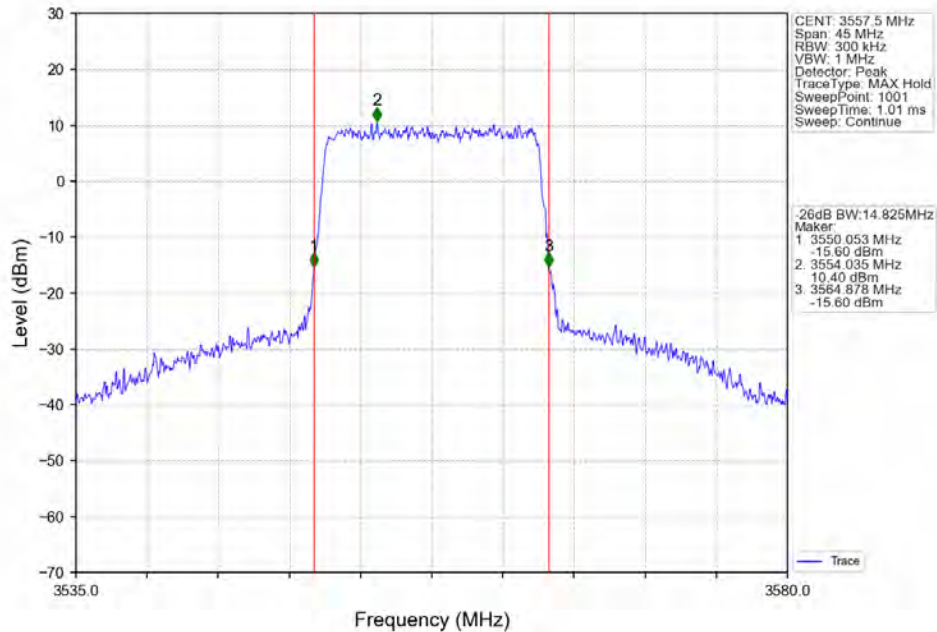
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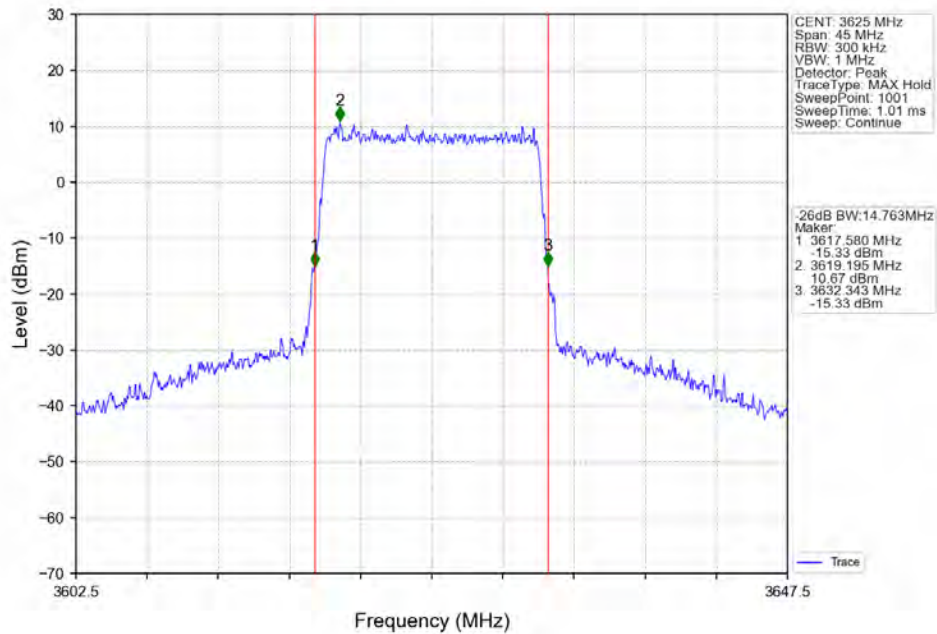
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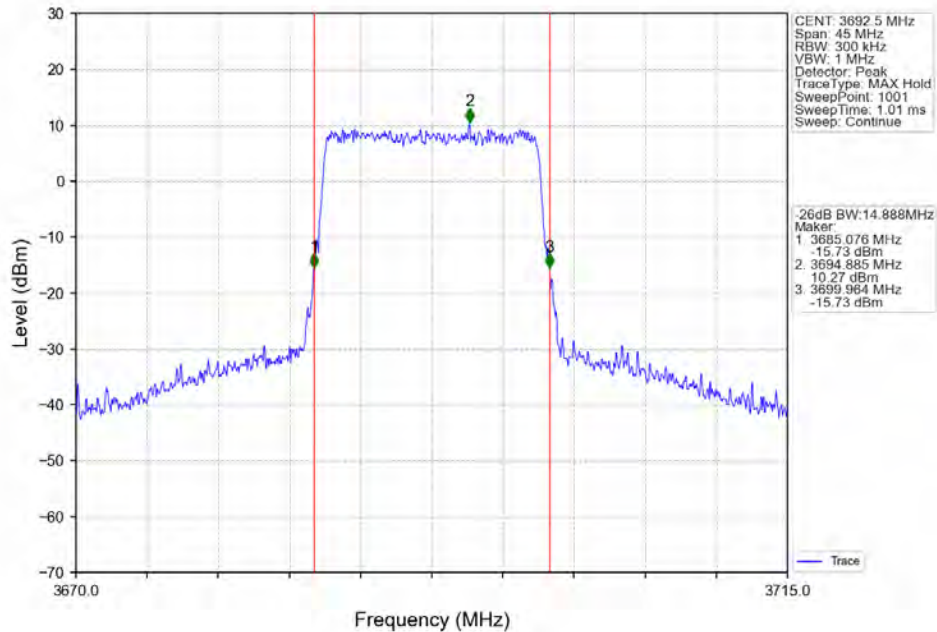
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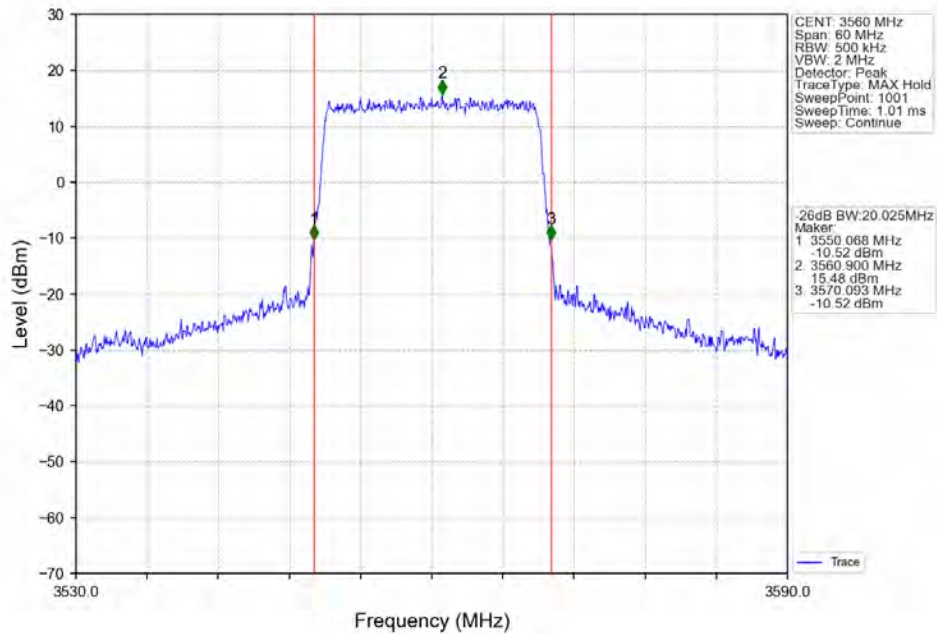
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



Band48 20MHz QPSK MCH 3625MHz RB 100 0 NTN



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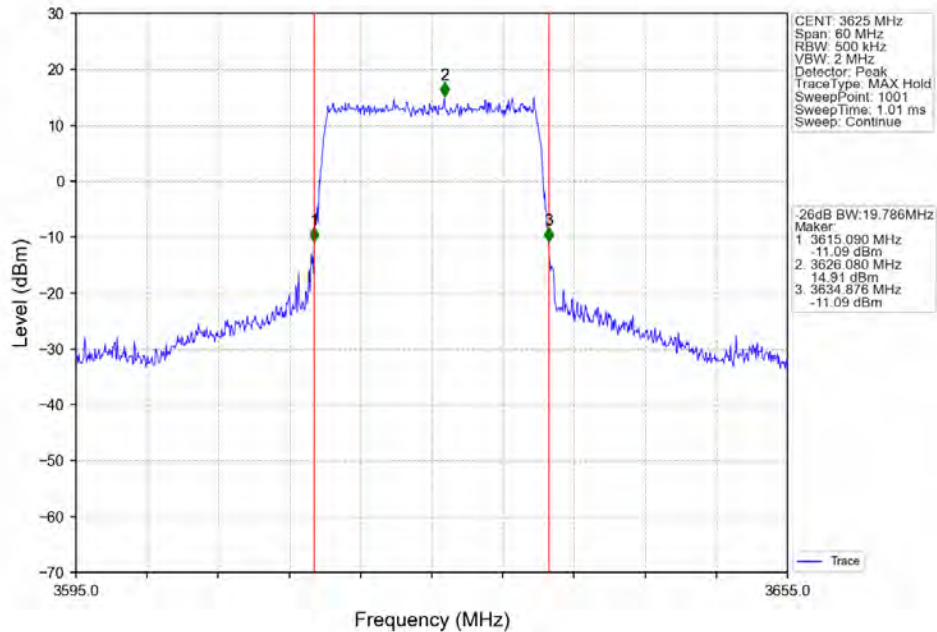
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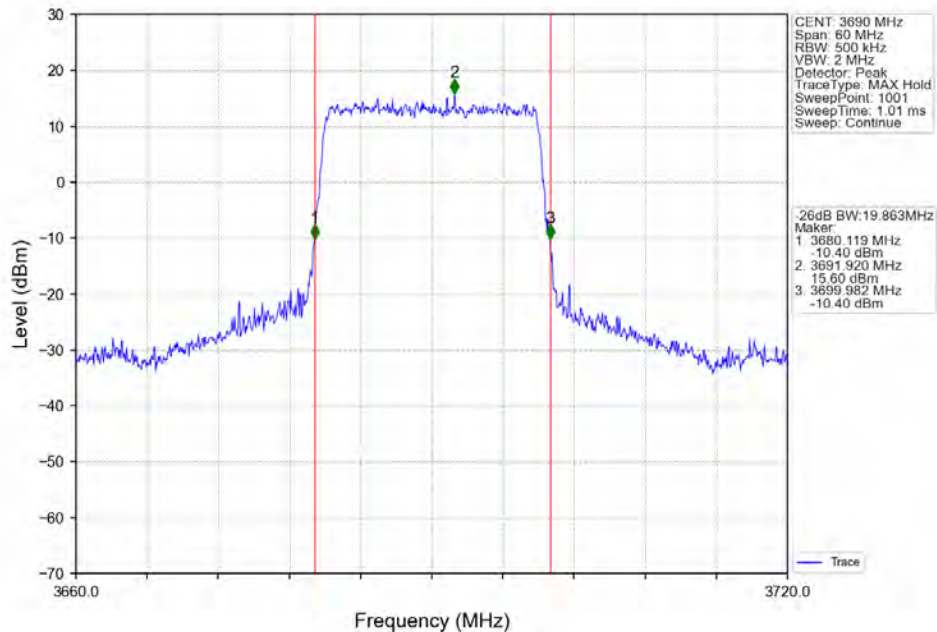
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Band48_20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV



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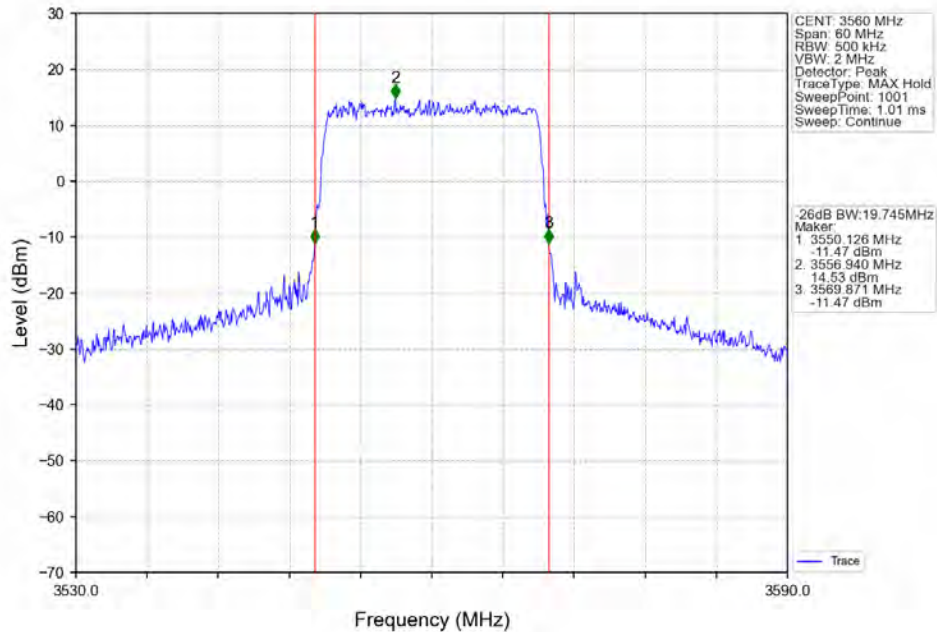
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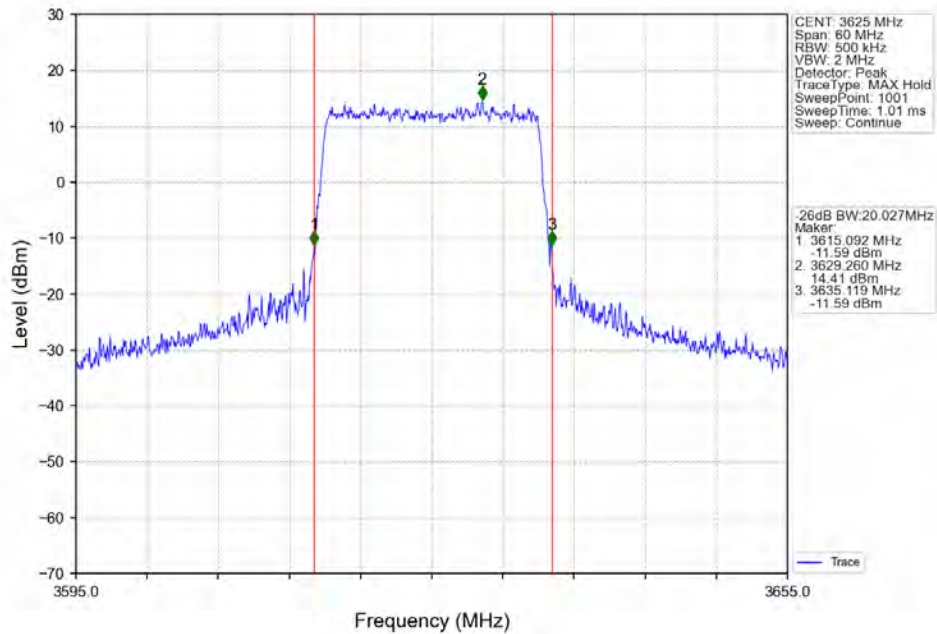
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Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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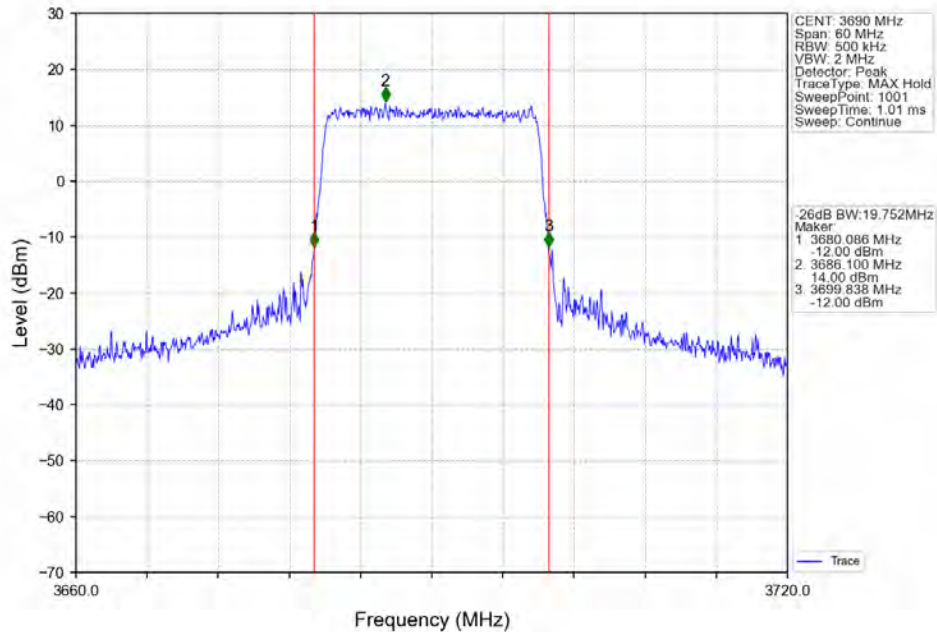
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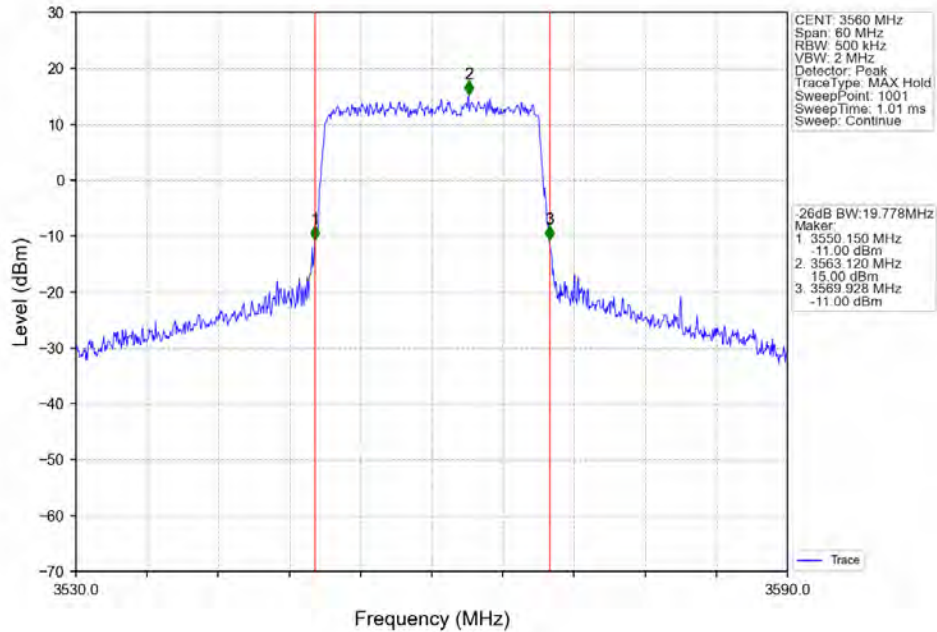
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Band48_20MHz_64QAM_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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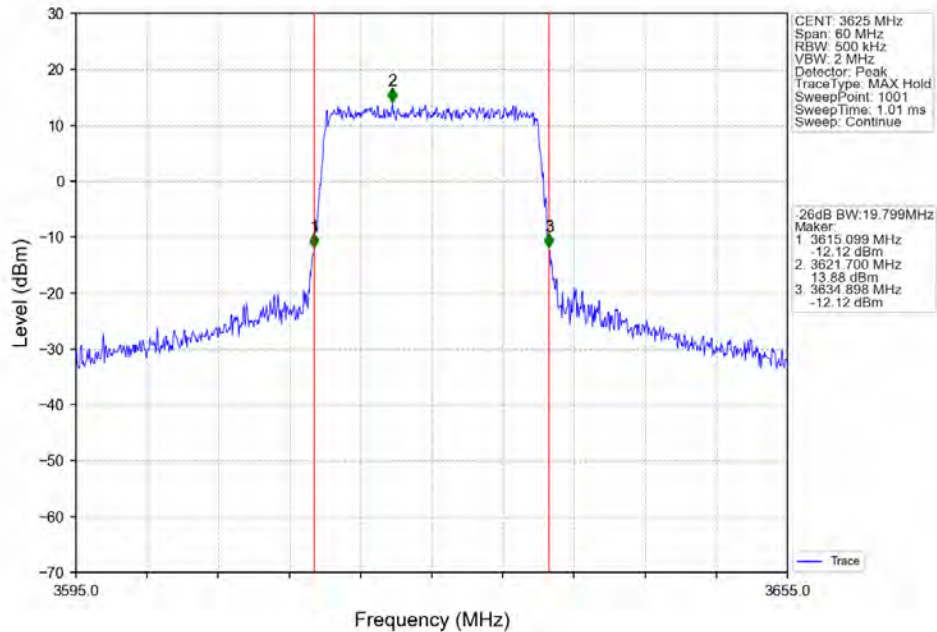
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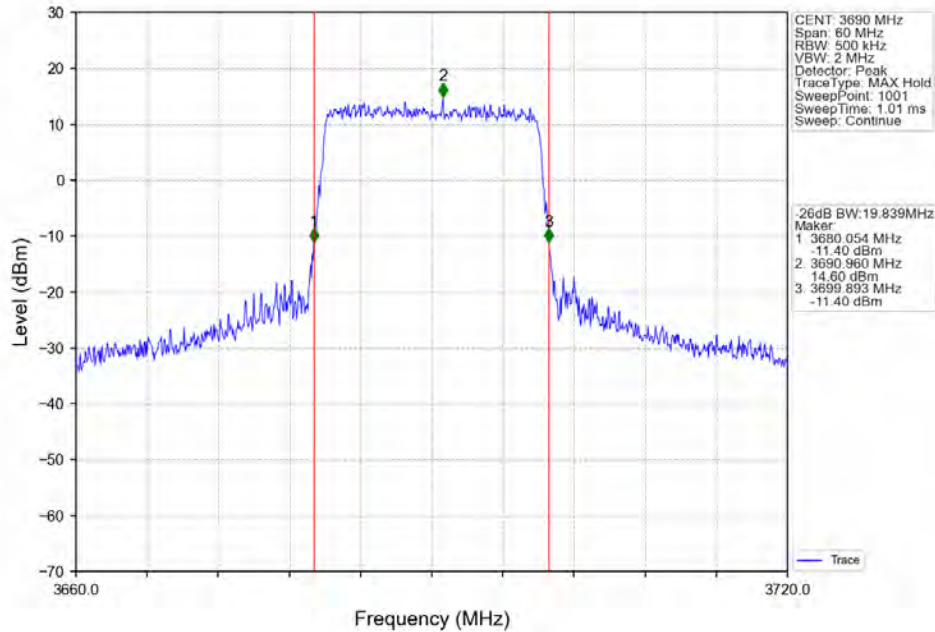
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Band48_20MHz_64QAM_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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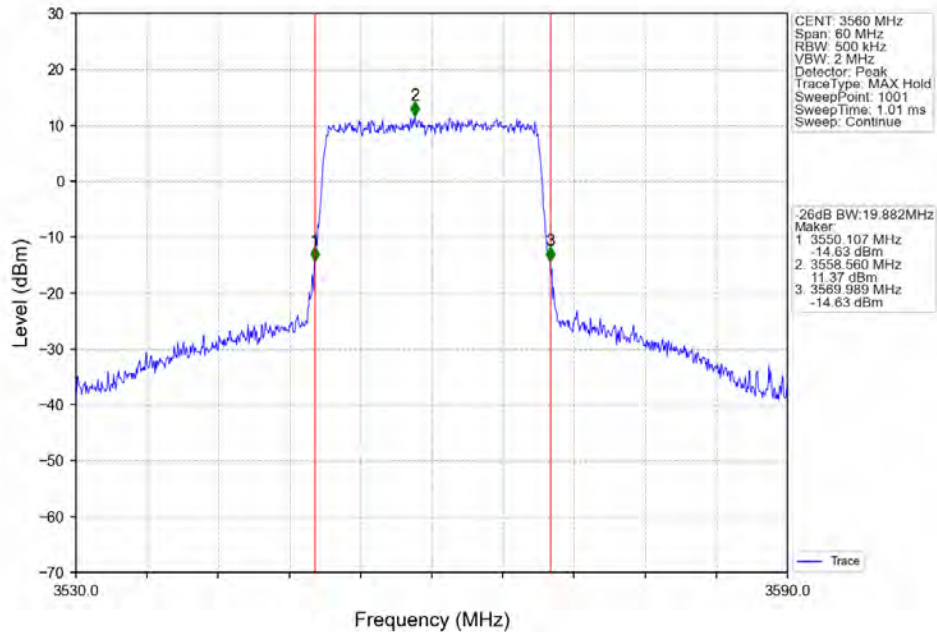
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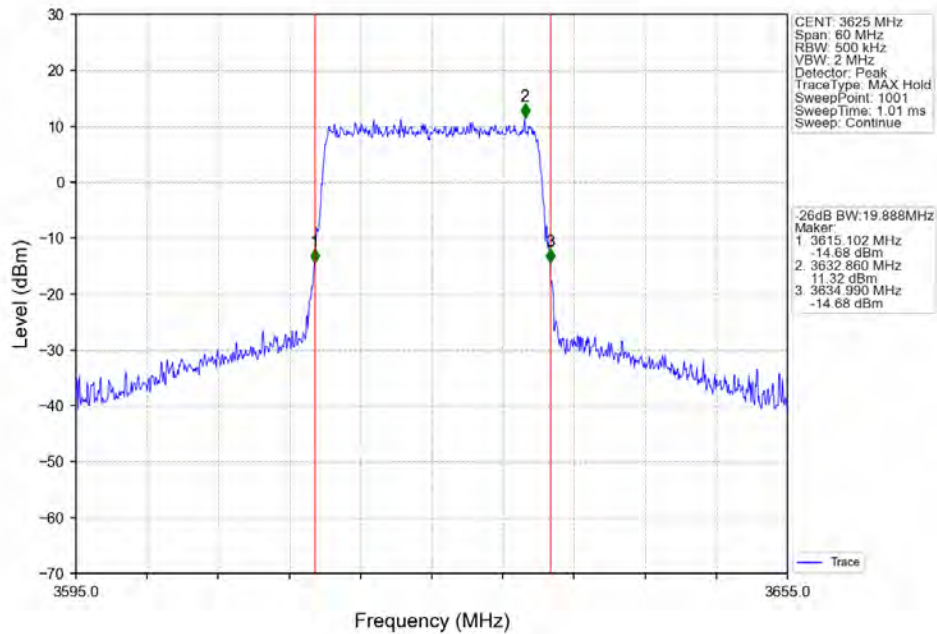
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Band48 20MHz 256QAM MCH 3625MHz RB 100 0 NTN



Band48 20MHz 256QAM HCH 3690MHz RB 100 0 NTN



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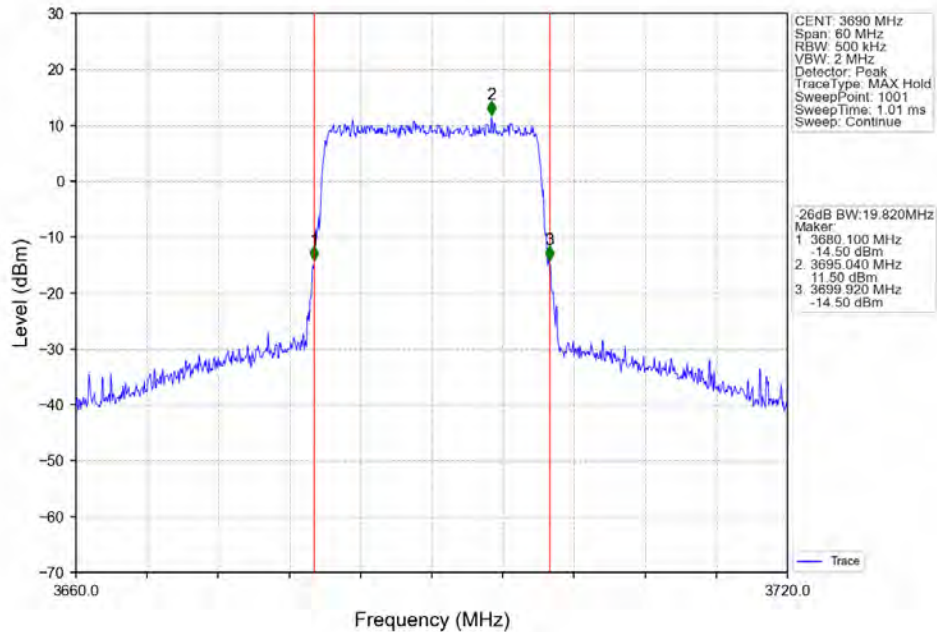
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4. Peak-Average Ratio

4.1 B48_5MHz

4.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	25	0	8.98	<=13	Pass
	3625	25	0	8.90	<=13	Pass
	3697.5	25	0	8.92	<=13	Pass
16QAM	3552.5	25	0	10.00	<=13	Pass
	3625	25	0	9.96	<=13	Pass
	3697.5	25	0	9.90	<=13	Pass
64QAM	3552.5	25	0	9.92	<=13	Pass
	3625	25	0	9.94	<=13	Pass
	3697.5	25	0	9.86	<=13	Pass
256QAM	3552.5	25	0	10.36	<=13	Pass
	3625	25	0	10.42	<=13	Pass
	3697.5	25	0	10.48	<=13	Pass



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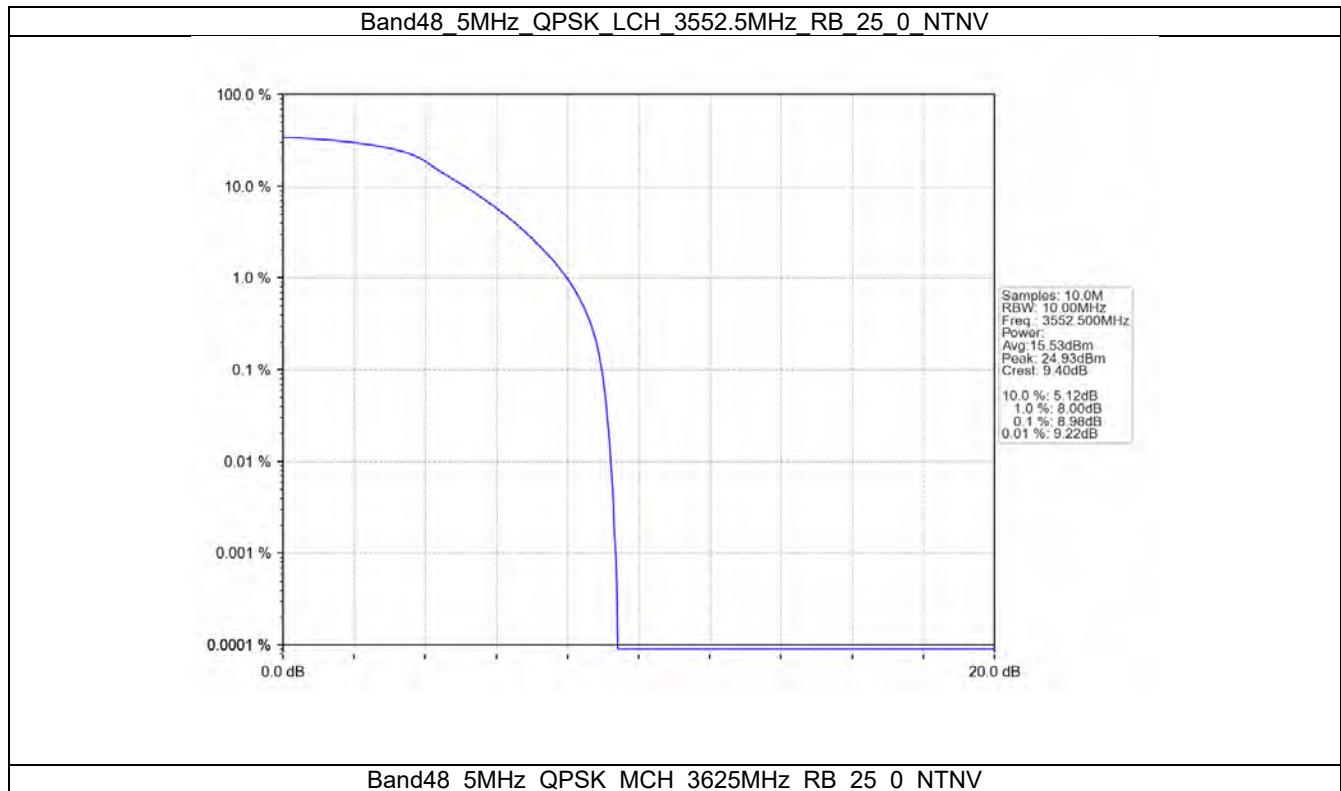
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4.1.2 Test Graph



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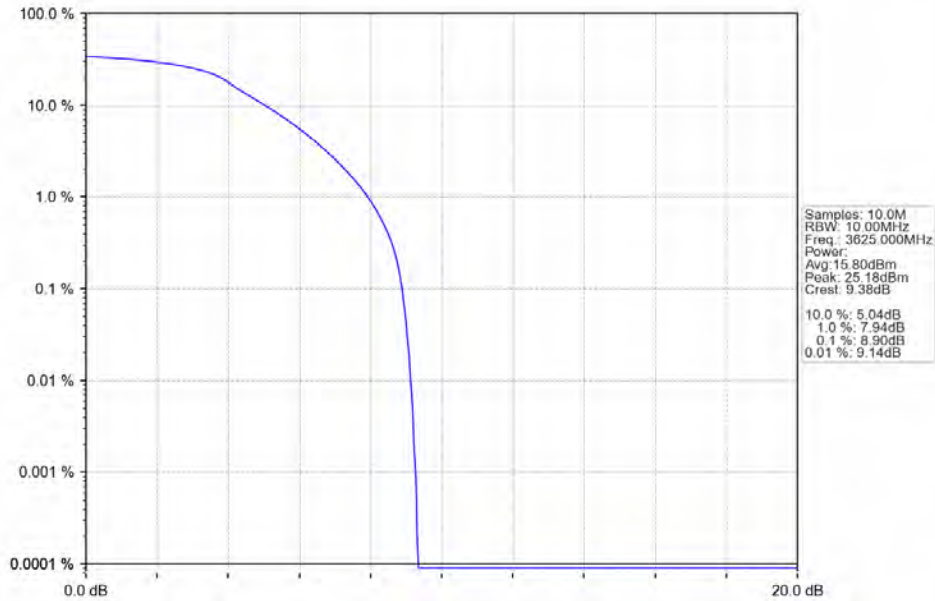
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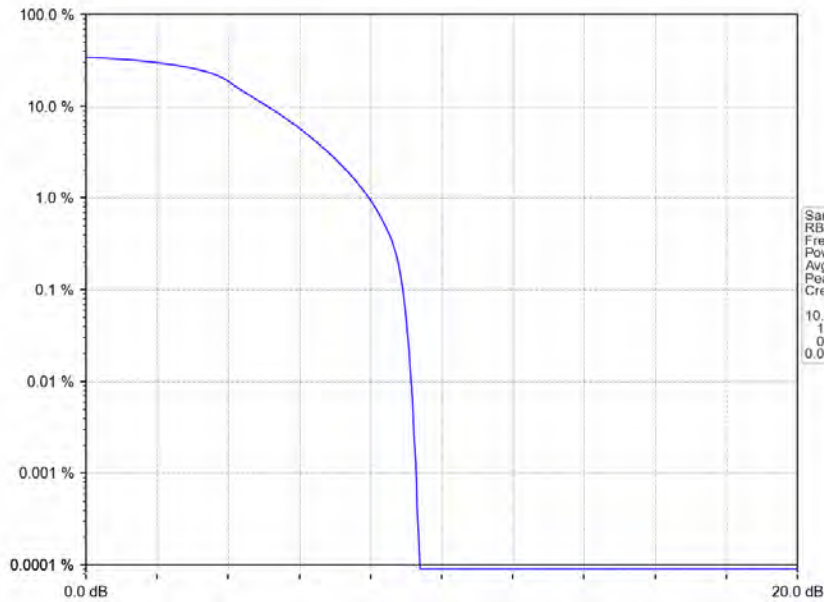
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Band48 5MHz QPSK HCH 3697.5MHz RB 25 0 NTN



Samples: 10.0M
RBW: 10.00MHz
Freq: 3697.500MHz
Power:
Avg: 16.11dBm
Peak: 25.49dBm
Crest: 9.38dB
10.0 %: 5.10dB
1.0 %: 7.96dB
0.1 %: 8.92dB
0.01 %: 9.16dB

Band48 5MHz 16QAM LCH 3552.5MHz RB 25 0 NTN



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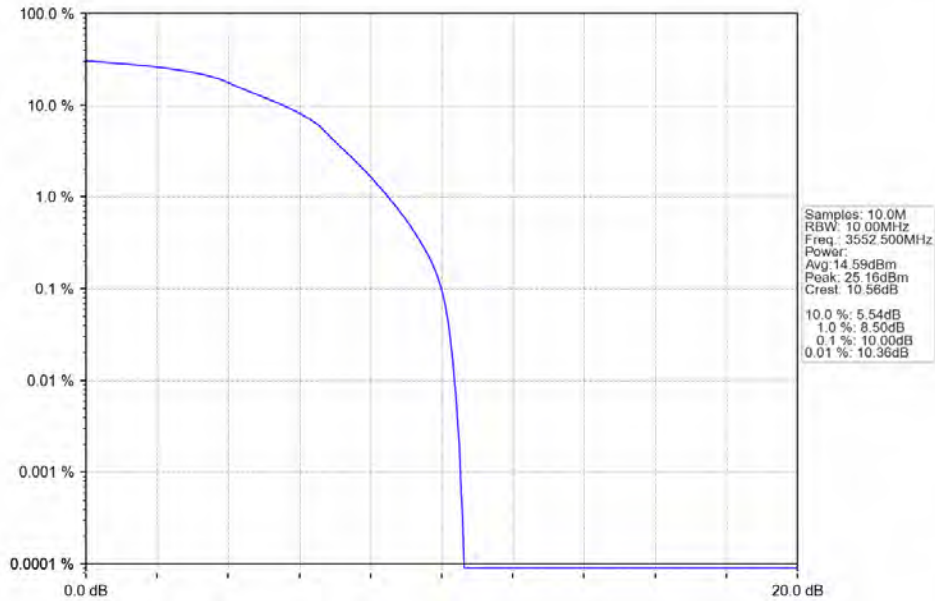
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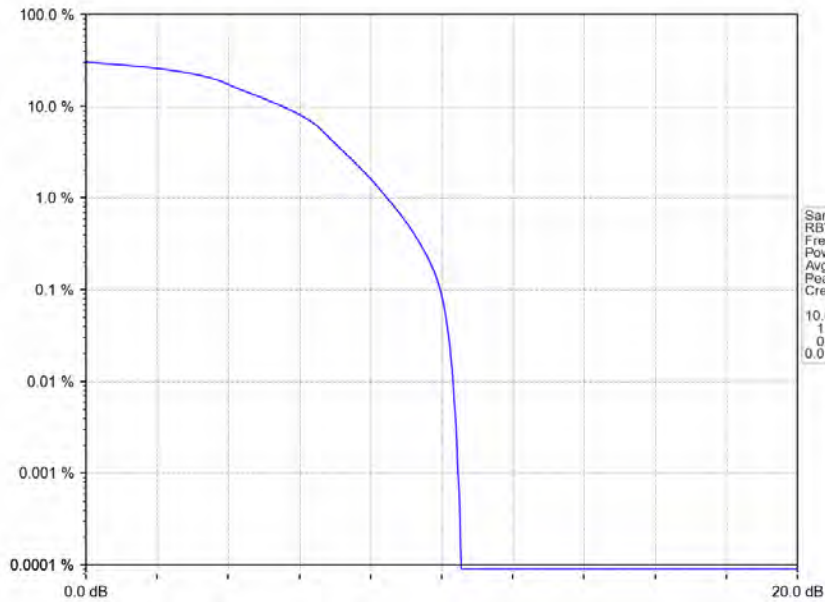
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Band48_5MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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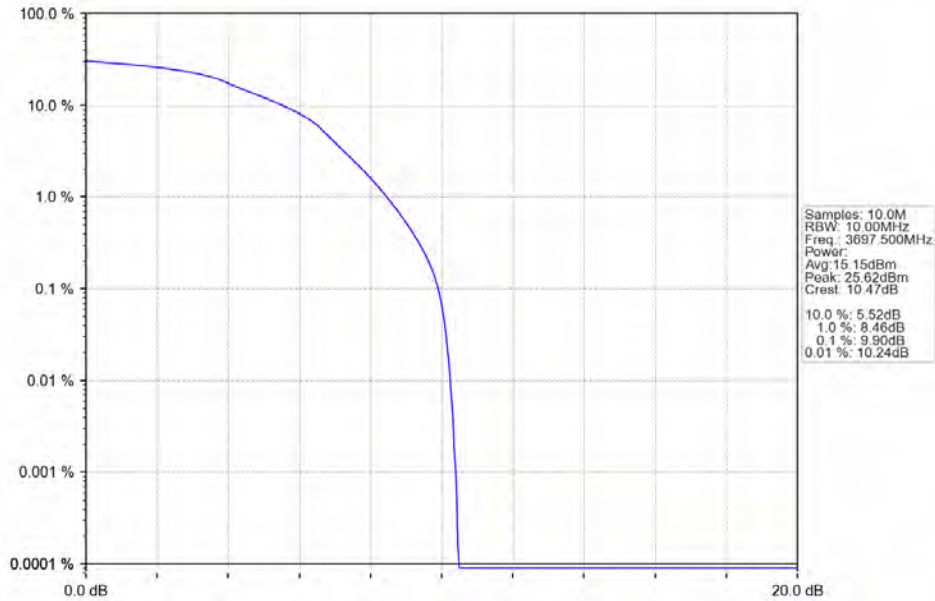
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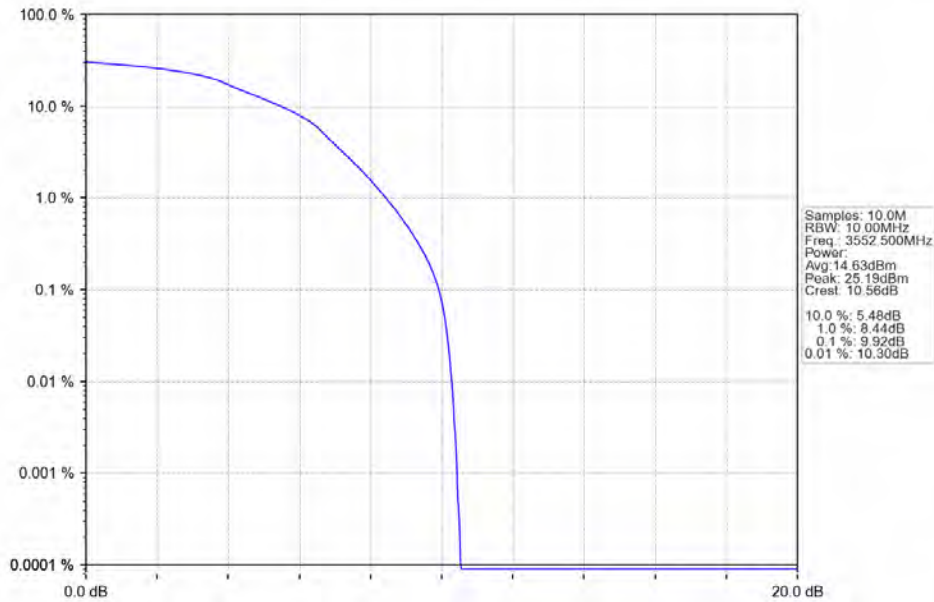
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV



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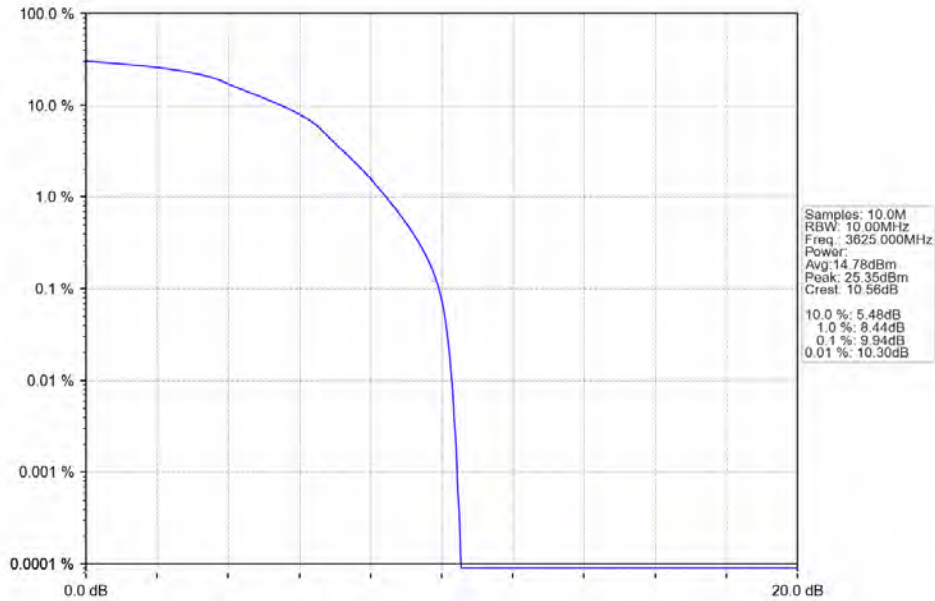
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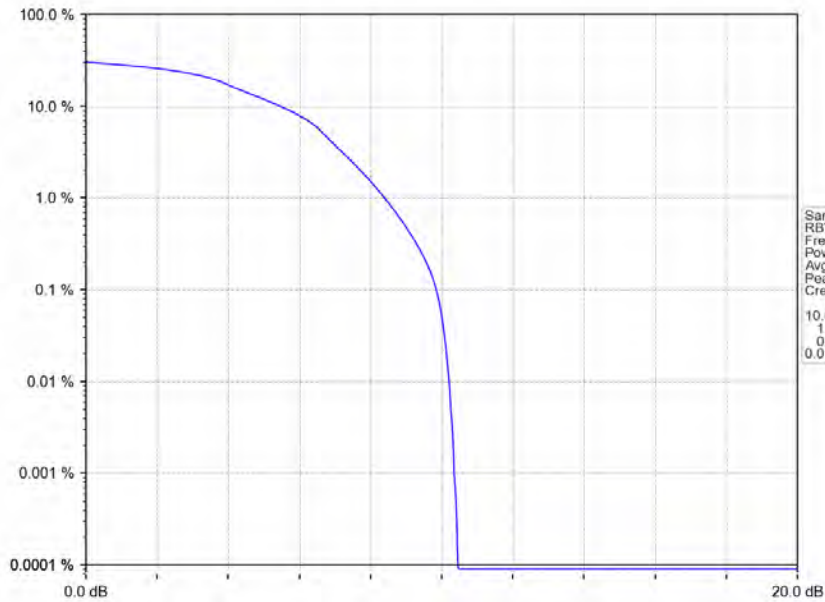
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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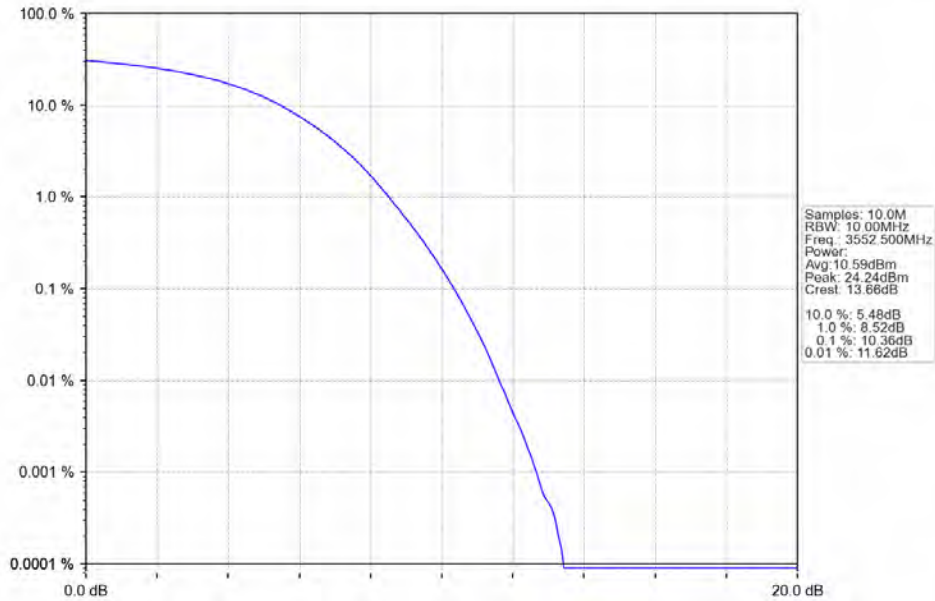
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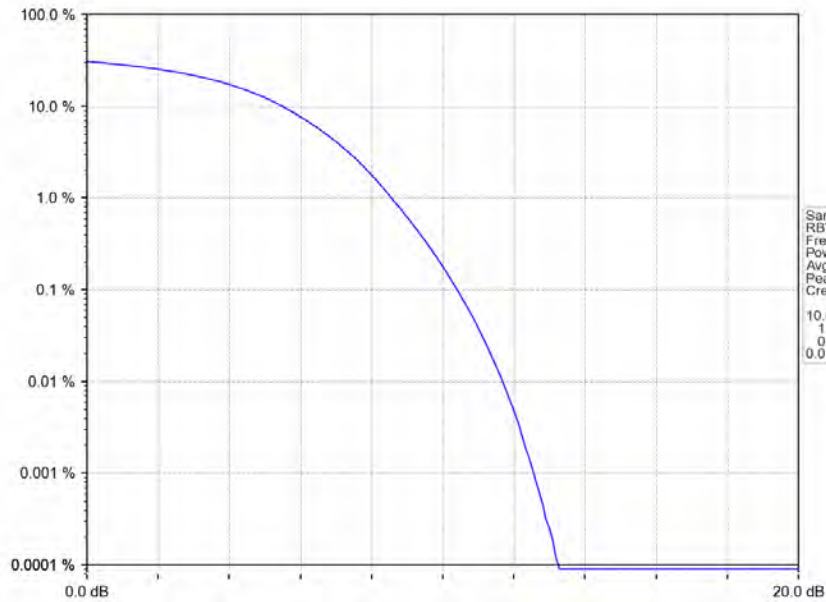
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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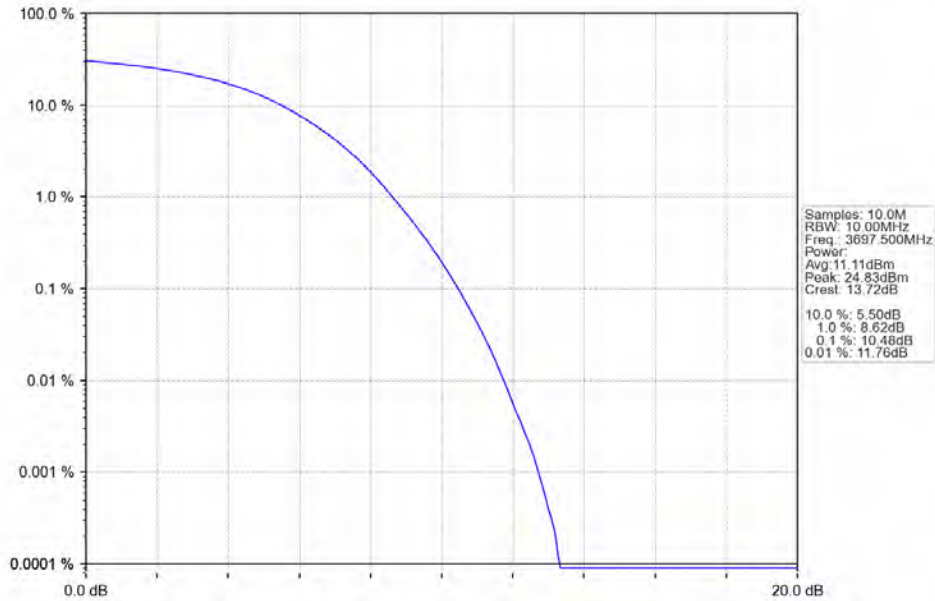
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4.2 B48_10MHz

4.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	50	0	8.90	<=13	Pass
	3625	50	0	8.88	<=13	Pass
	3695	50	0	8.88	<=13	Pass
16QAM	3555	50	0	9.92	<=13	Pass
	3625	50	0	9.86	<=13	Pass
	3695	50	0	9.86	<=13	Pass
64QAM	3555	50	0	9.90	<=13	Pass
	3625	50	0	9.92	<=13	Pass
	3695	50	0	9.86	<=13	Pass
256QAM	3555	50	0	10.30	<=13	Pass
	3625	50	0	10.34	<=13	Pass
	3695	50	0	10.42	<=13	Pass



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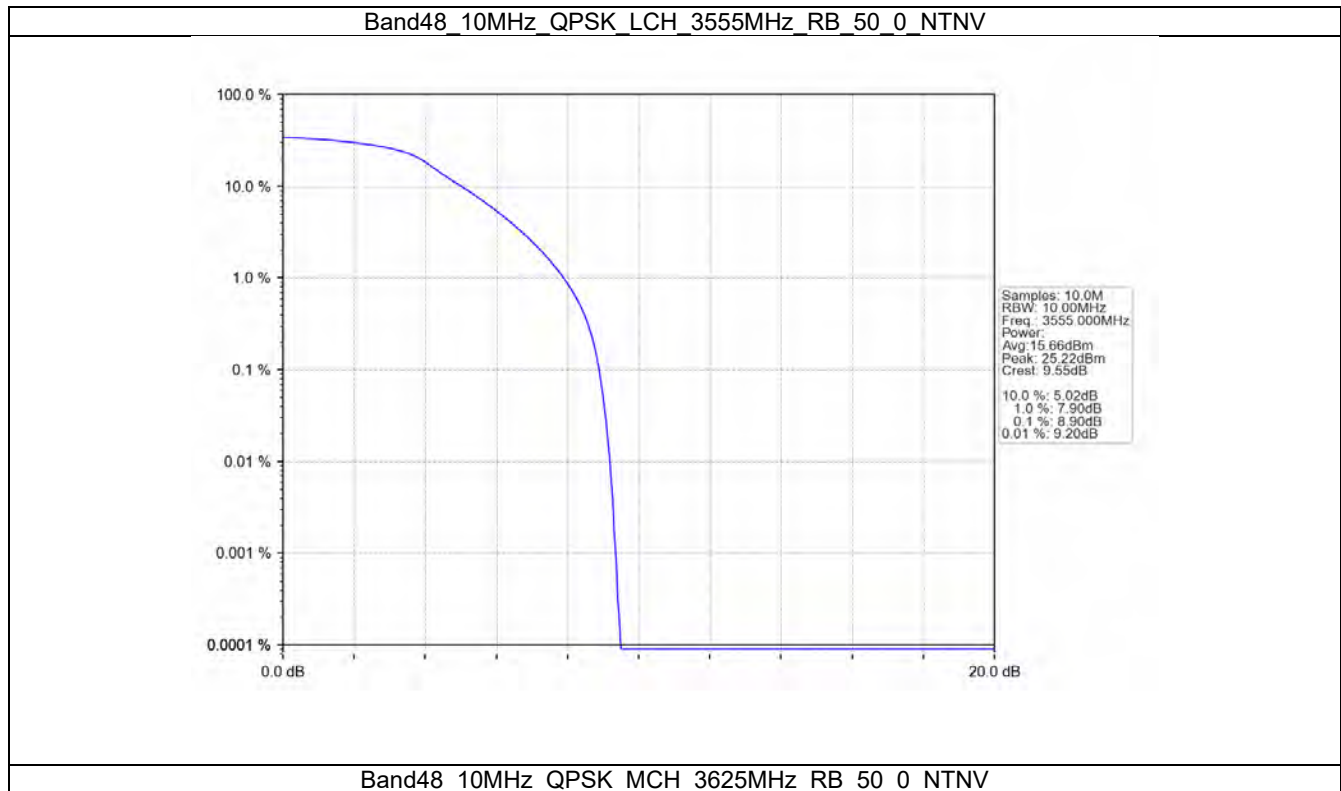
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4.2.2 Test Graph



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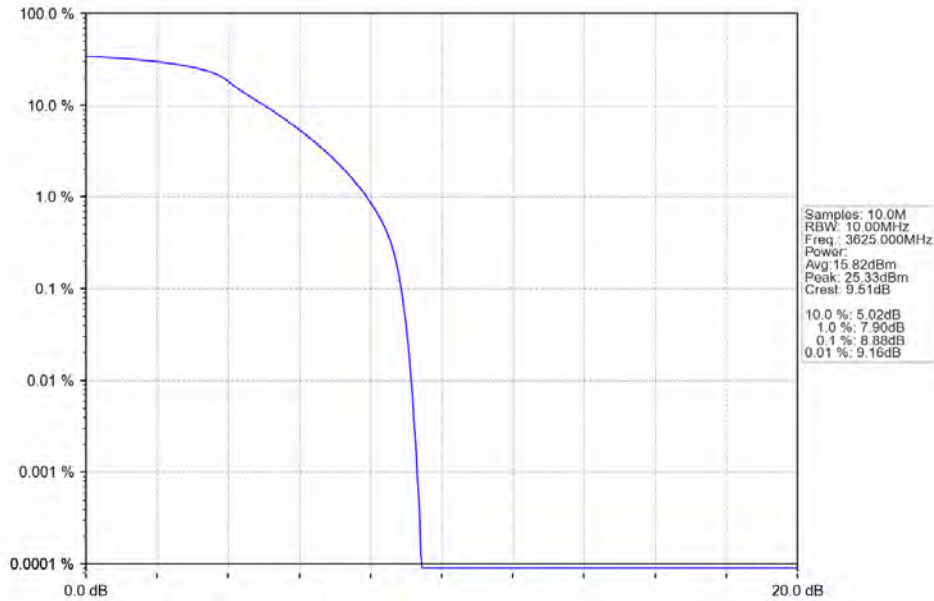
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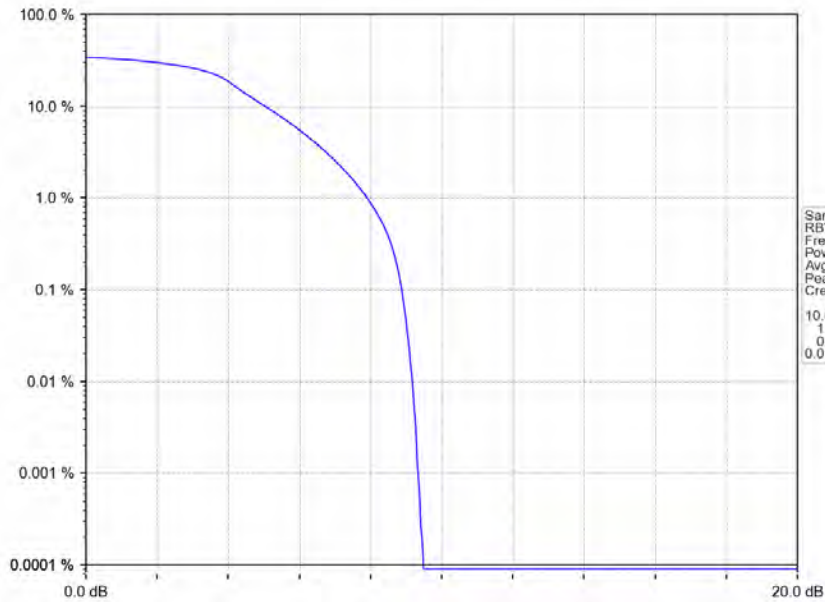
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Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



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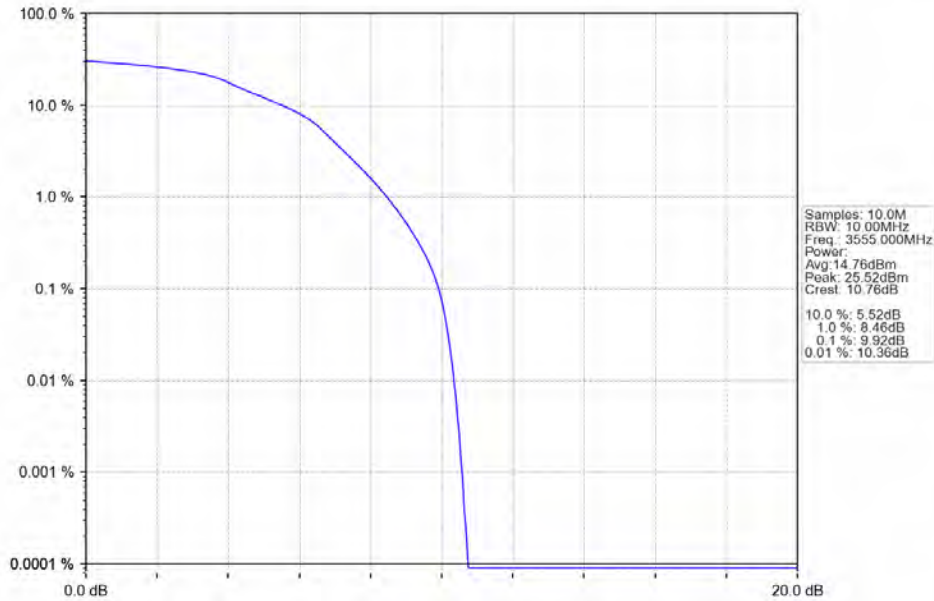
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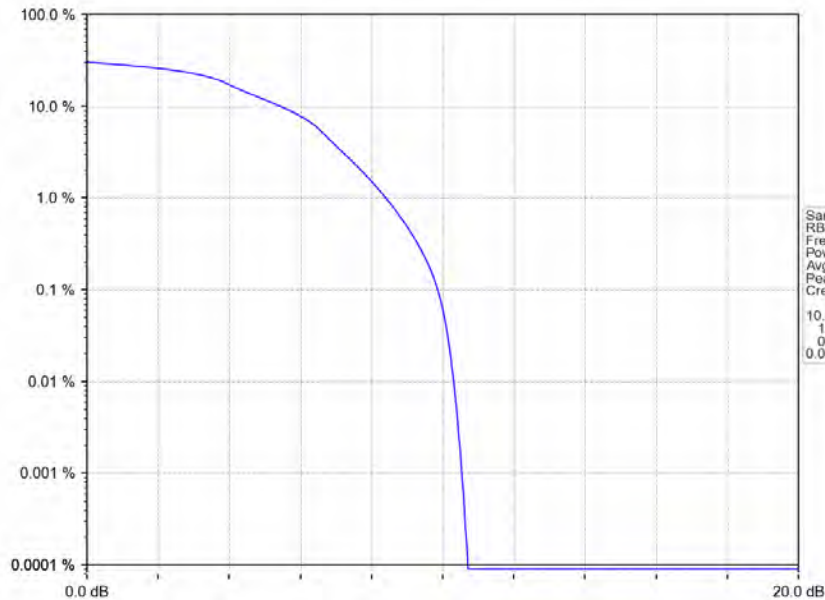
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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTN



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTN



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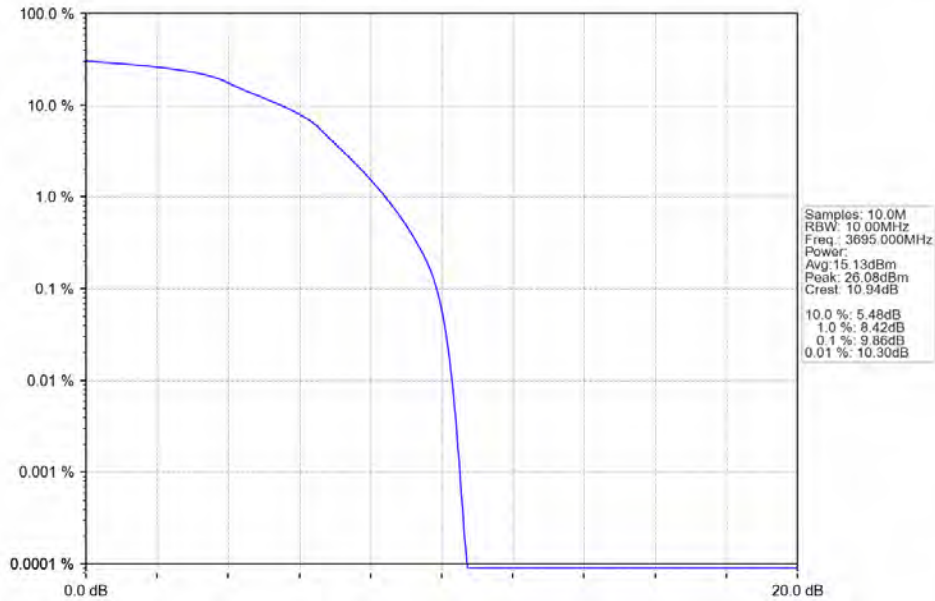
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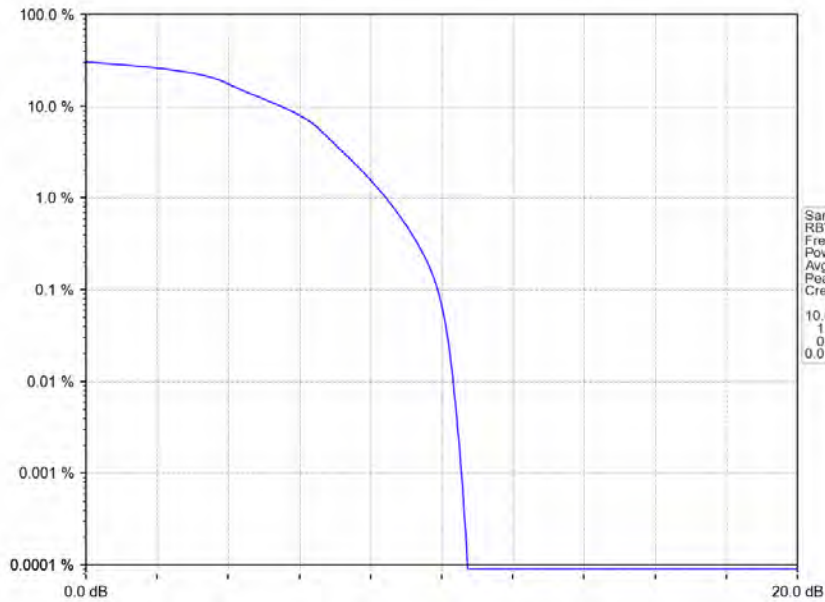
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Band48_10MHz_64QAM_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_64QAM_MCH_3625MHz_RB_50_0_NTNV



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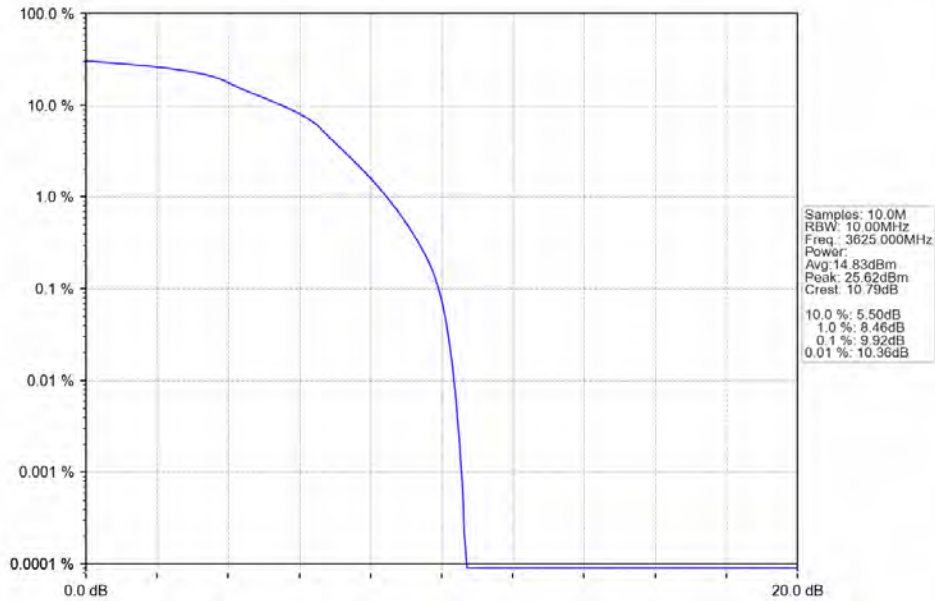
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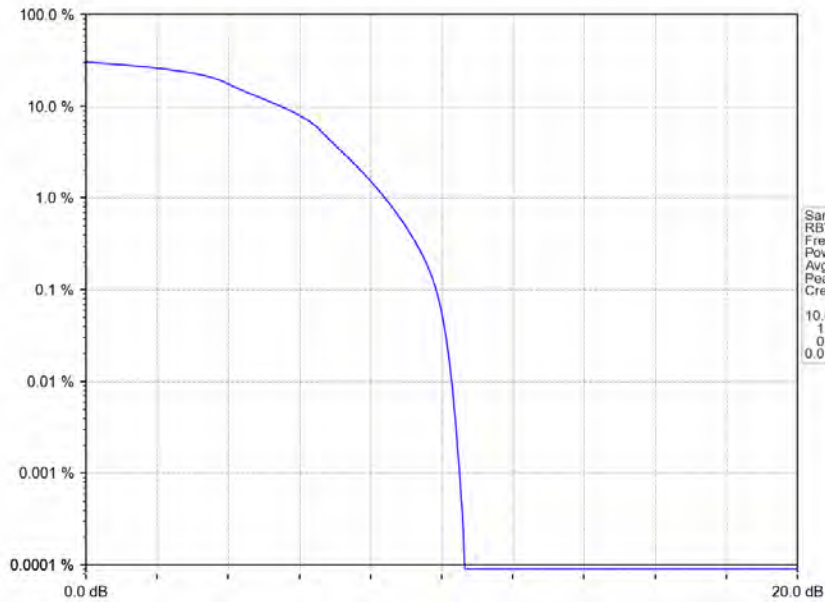
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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



Band48 10MHz 256QAM LCH 3555MHz RB 50 0 NTN



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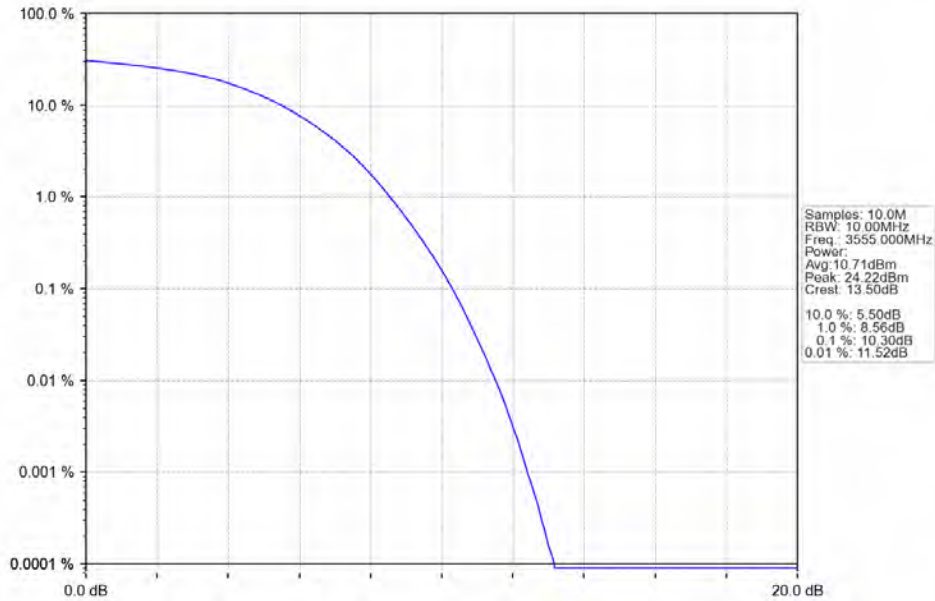
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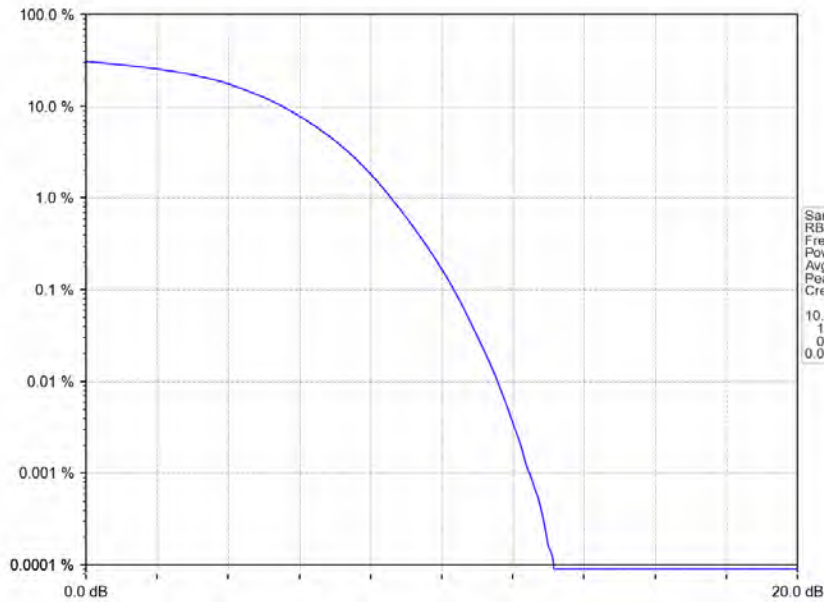
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Band48_10MHz_256QAM_MCH_3625MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 3625.000MHz
Power:
Avg: 10.81dBm
Peak: 24.61dBm
Crest: 13.81dB
10.0 %: 5.52dB
1.0 %: 8.58dB
0.1 %: 10.34dB
0.01 %: 11.58dB

Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV



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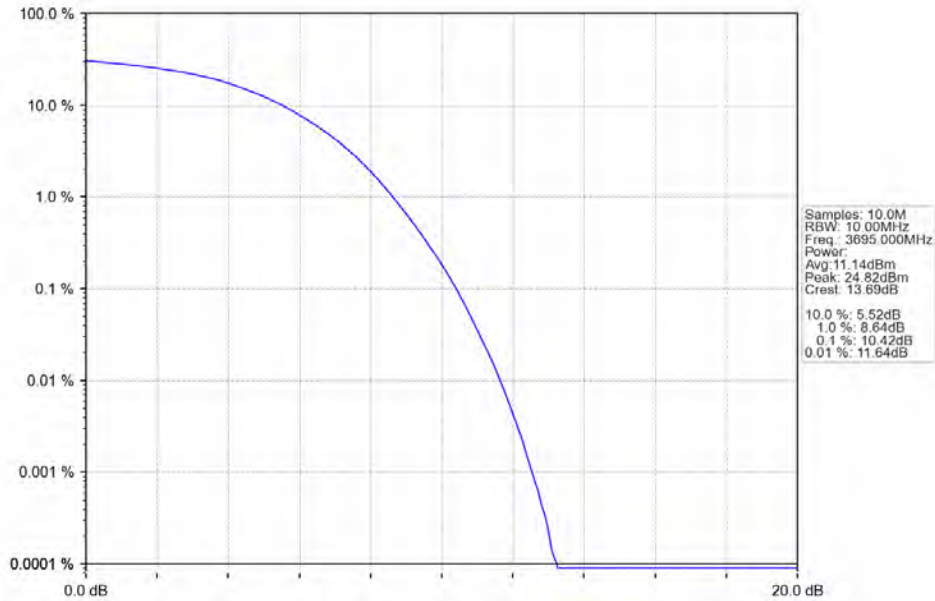
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4.3 B48_15MHz

4.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	75	0	8.76	<=13	Pass
	3625	75	0	8.72	<=13	Pass
	3692.5	75	0	8.72	<=13	Pass
16QAM	3557.5	75	0	9.78	<=13	Pass
	3625	75	0	9.84	<=13	Pass
	3692.5	75	0	9.76	<=13	Pass
64QAM	3557.5	75	0	9.74	<=13	Pass
	3625	75	0	9.82	<=13	Pass
	3692.5	75	0	9.76	<=13	Pass
256QAM	3557.5	75	0	10.08	<=13	Pass
	3625	75	0	10.22	<=13	Pass
	3692.5	75	0	10.18	<=13	Pass



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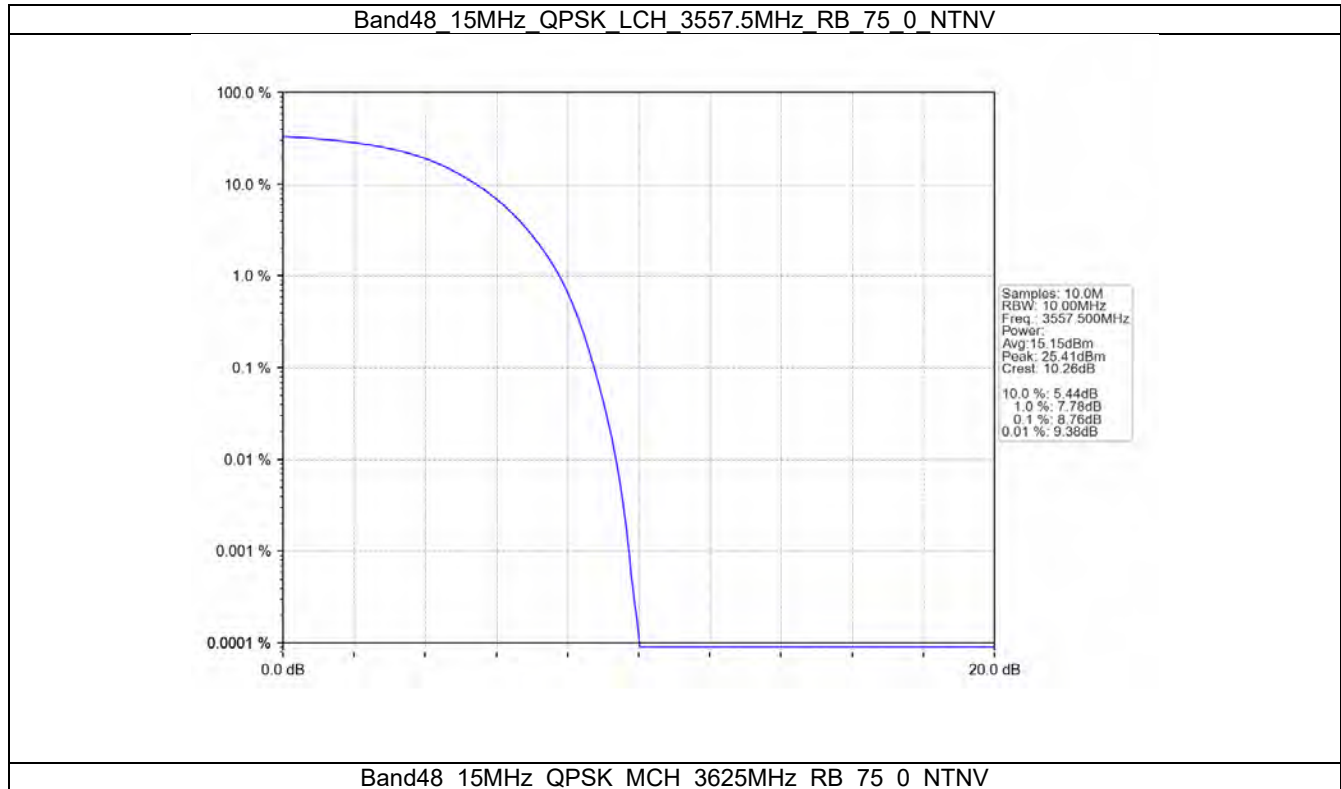
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4.3.2 Test Graph



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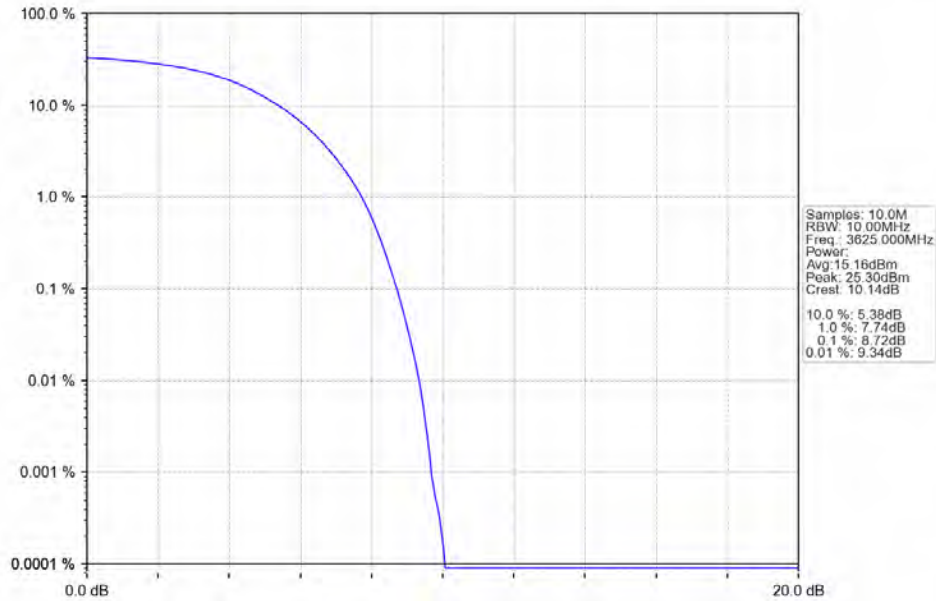
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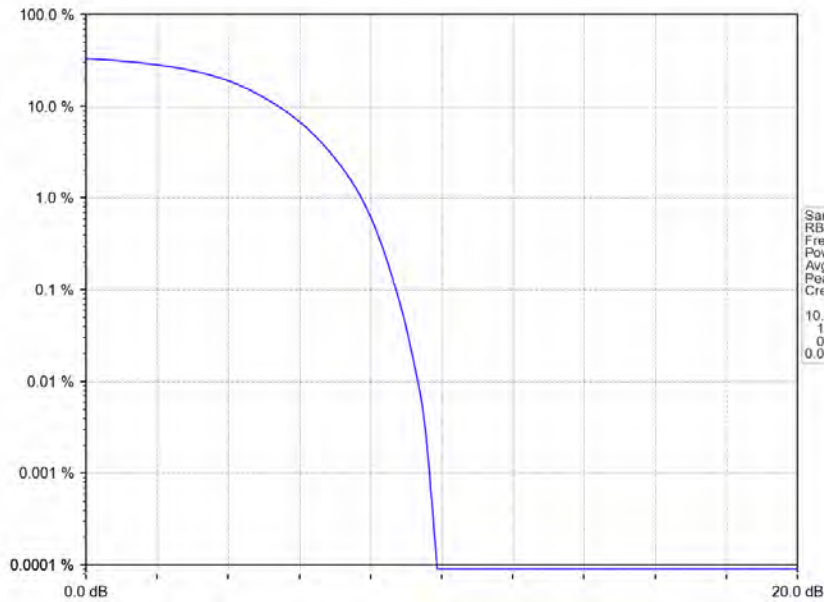
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 3692.500MHz
Power:
Avg: 15.52dBm
Peak: 25.53dBm
Crest: 10.01dB
10.0%: 5.42dB
1.0%: 7.76dB
0.1%: 8.72dB
0.01%: 9.34dB

Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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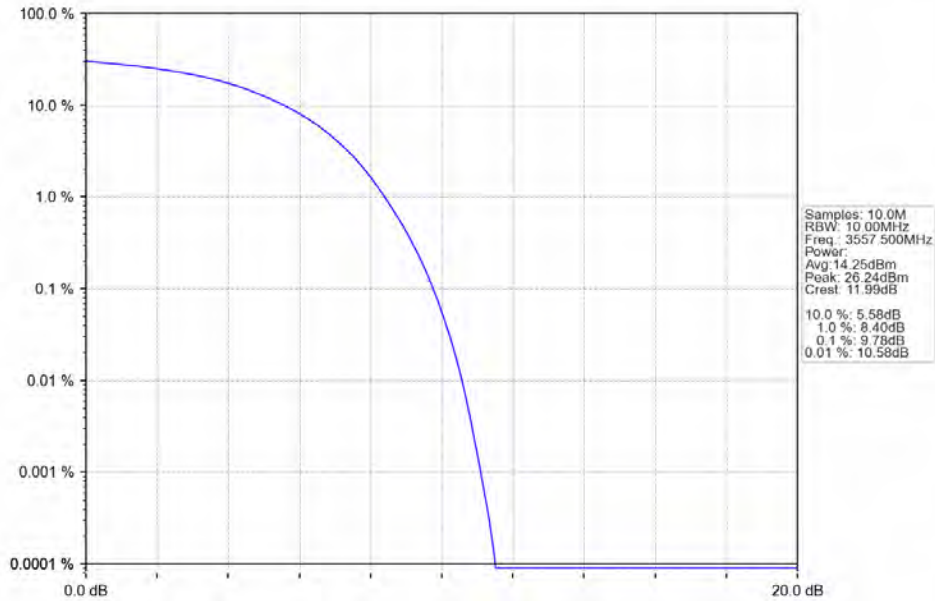
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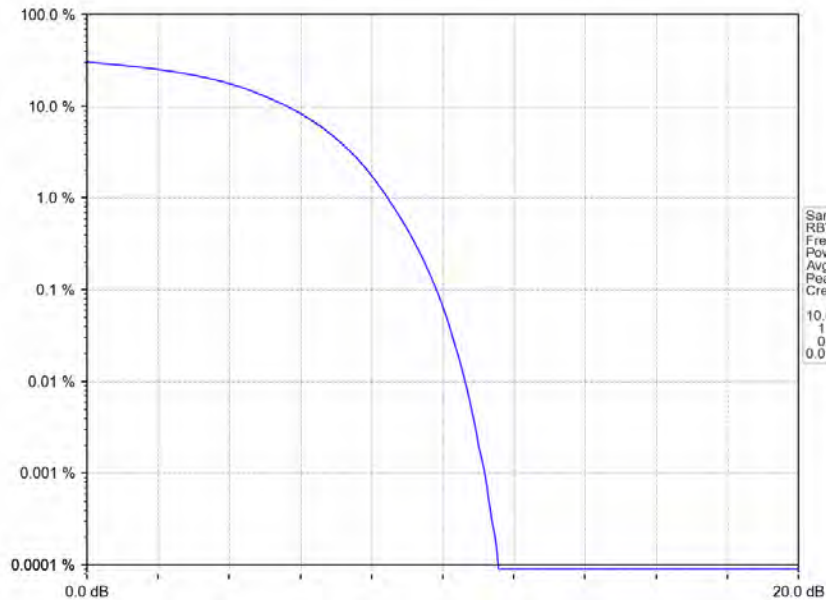
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Band48_15MHz_16QAM_MCH_3625MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV



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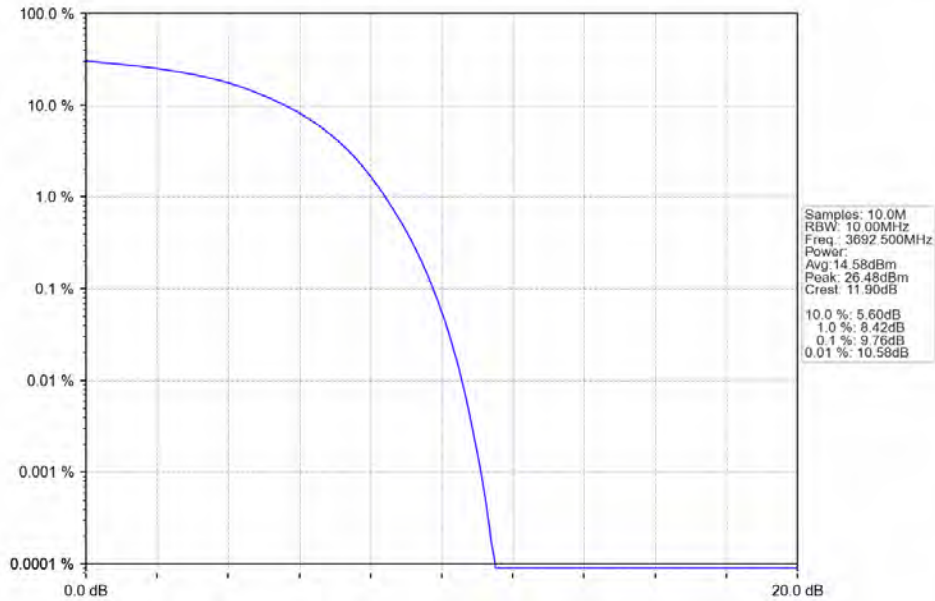
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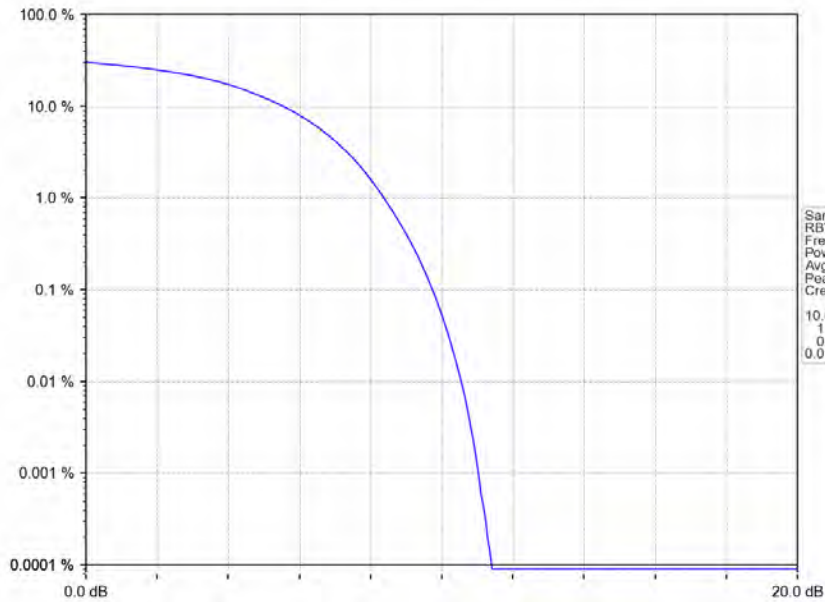
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Band48_15MHz_64QAM_LCH_3557.5MHz_RB_75_0_NTNV



Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV



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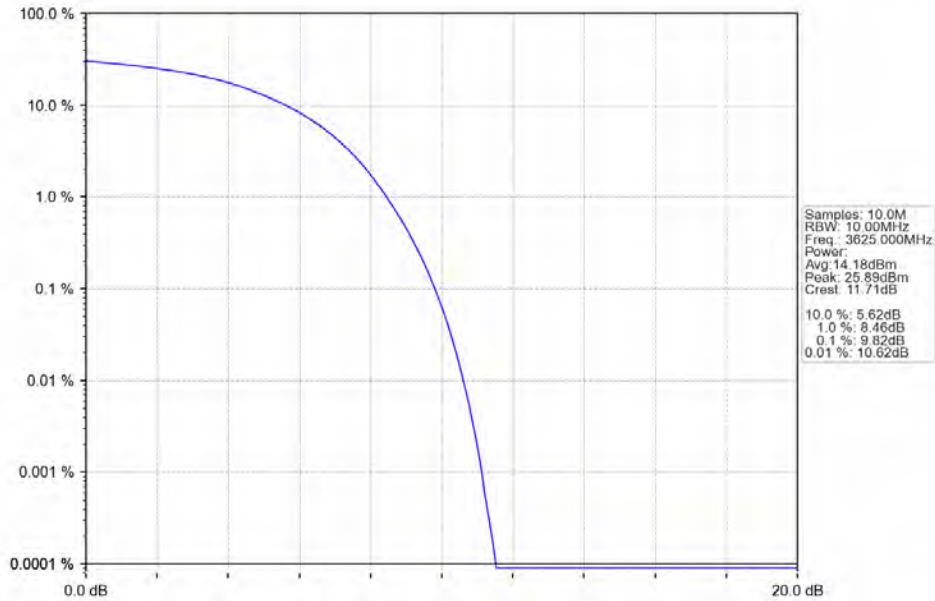
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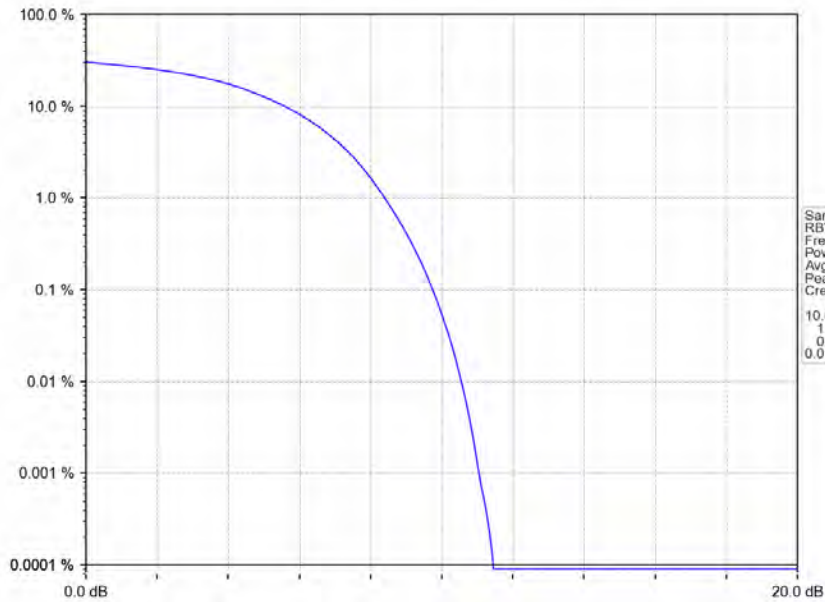
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Band48_15MHz_64QAM_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV



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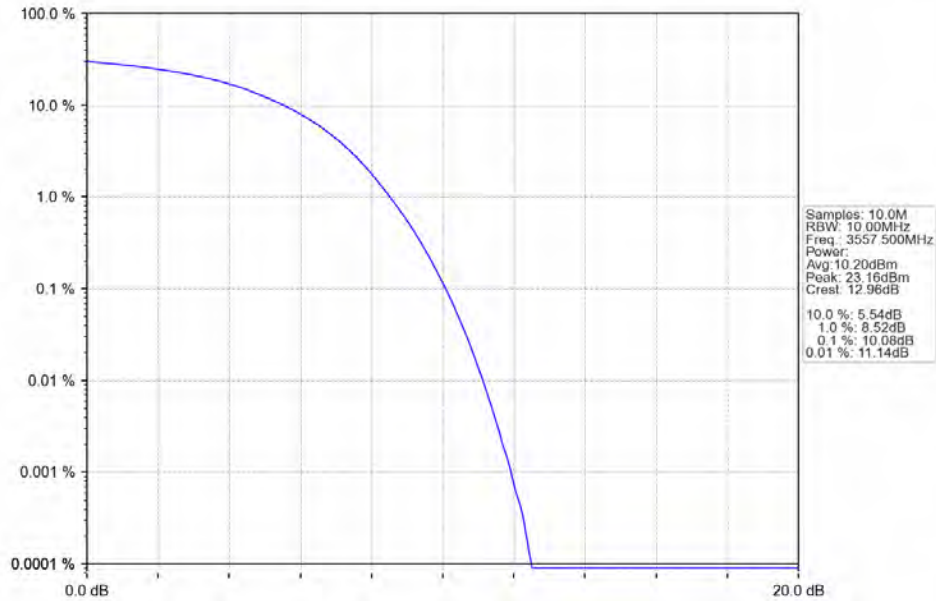
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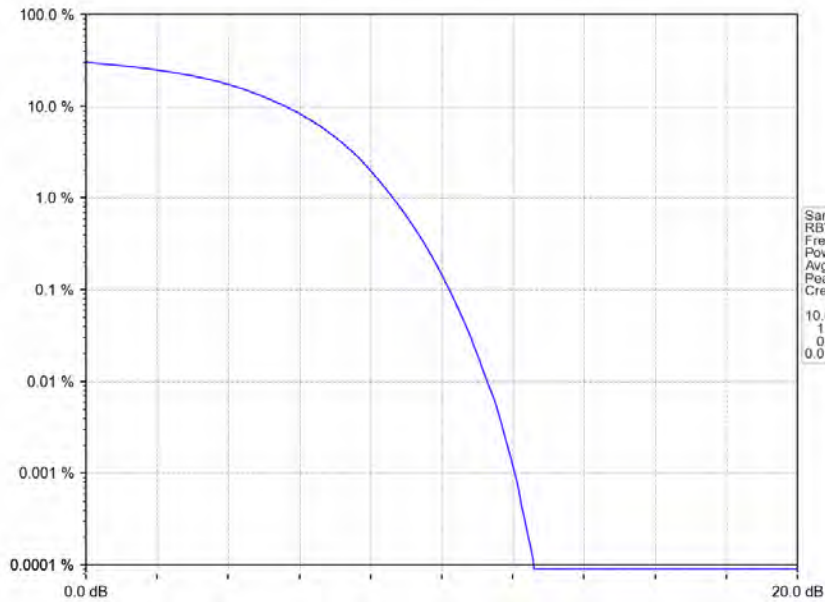
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Band48_15MHz_256QAM_MCH_3625MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 3625.000MHz
Power:
Avg: 10.15dBm
Peak: 23.35dBm
Crest: 13.20dBm
10.0%: 5.60dB
1.0%: 8.64dB
0.1%: 10.22dB
0.01%: 11.28dB

Band48_15MHz_256QAM_HCH_3692.5MHz_RB_75_0_NTNV



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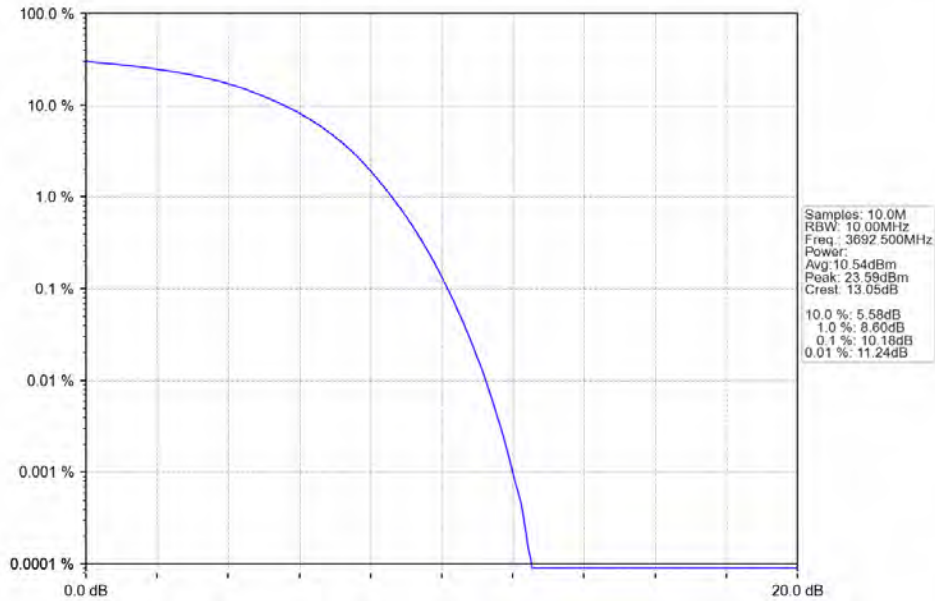
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4.4 B48_20MHz

4.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	100	0	9.26	<=13	Pass
	3625	100	0	9.30	<=13	Pass
	3690	100	0	9.22	<=13	Pass
16QAM	3560	100	0	10.24	<=13	Pass
	3625	100	0	10.22	<=13	Pass
	3690	100	0	10.18	<=13	Pass
64QAM	3560	100	0	10.20	<=13	Pass
	3625	100	0	10.26	<=13	Pass
	3690	100	0	10.18	<=13	Pass
256QAM	3560	100	0	10.40	<=13	Pass
	3625	100	0	10.44	<=13	Pass
	3690	100	0	10.44	<=13	Pass



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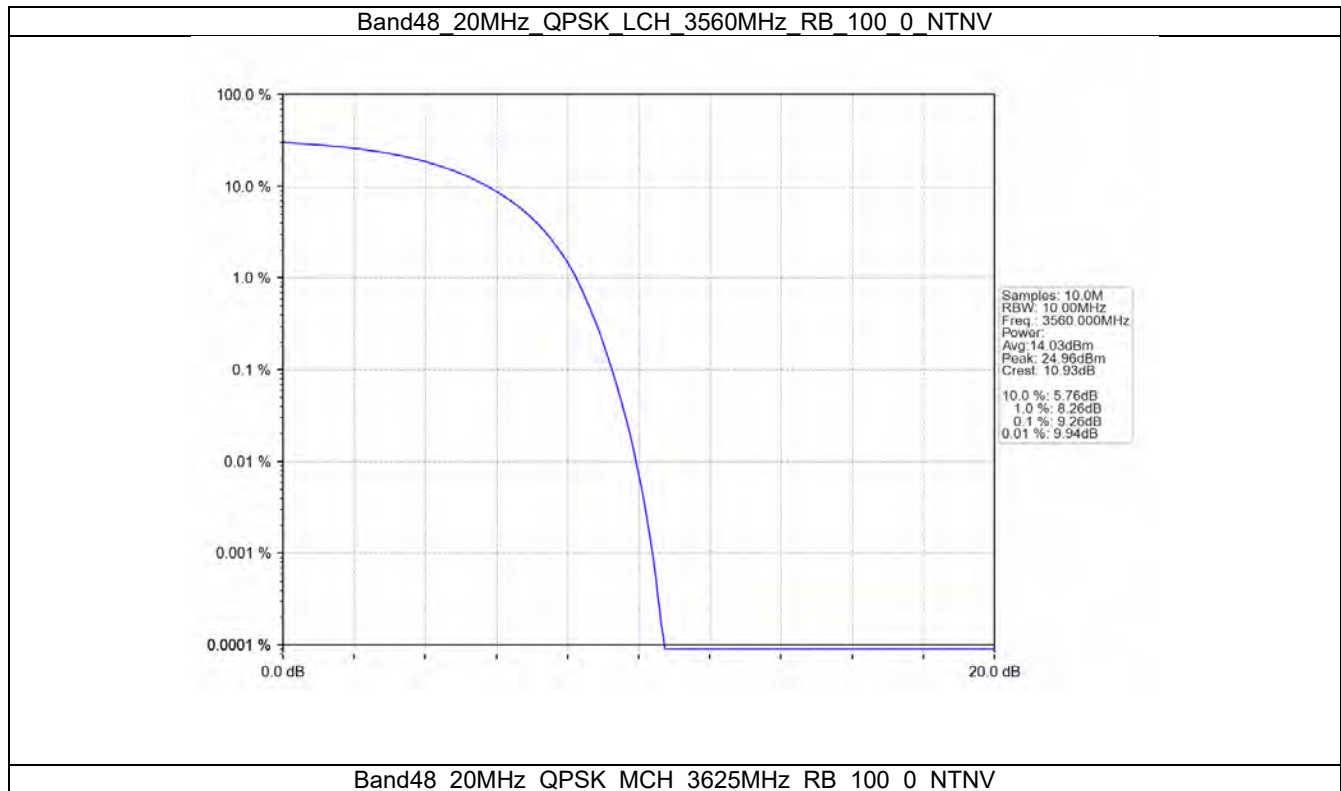
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4.4.2 Test Graph



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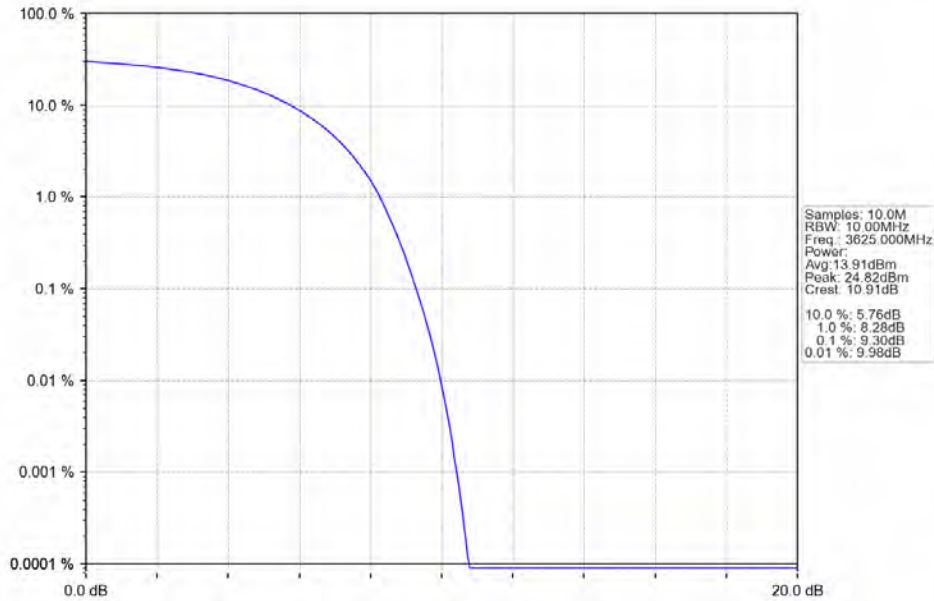
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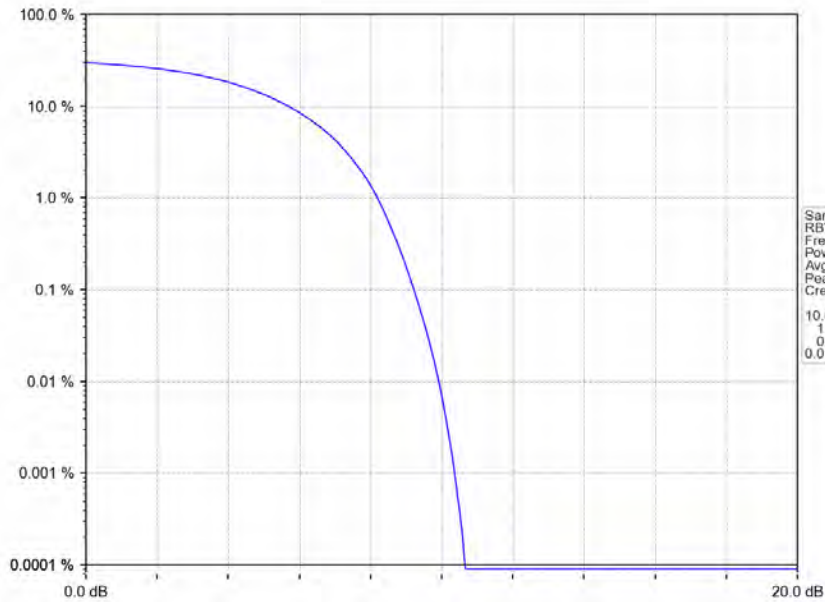
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Band48 20MHz QPSK HCH 3690MHz RB 100 0 NTN



Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTN



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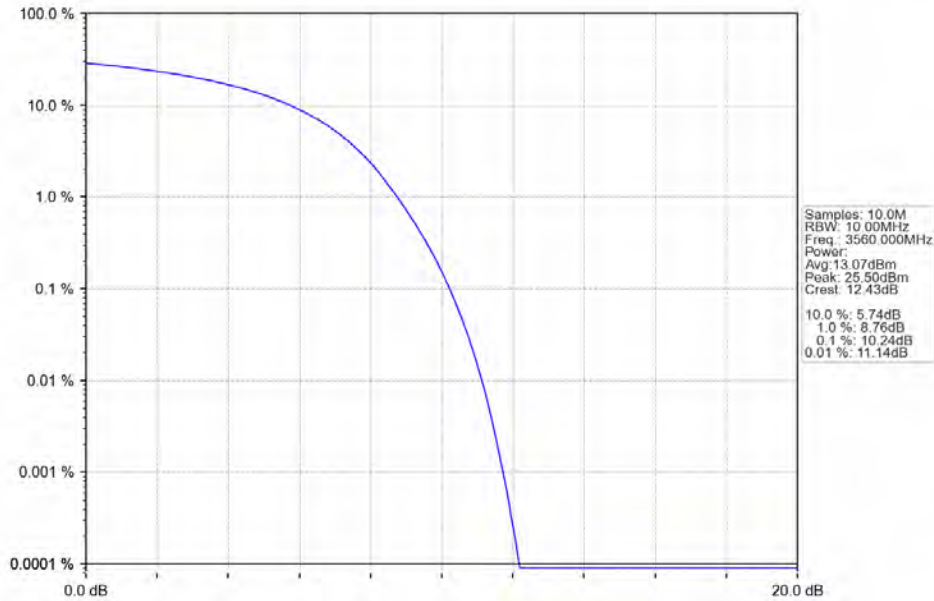
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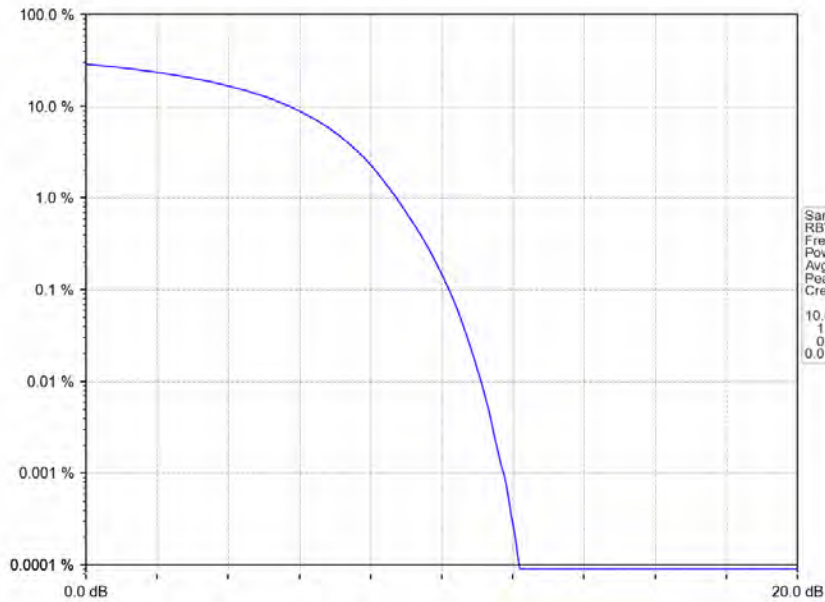
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Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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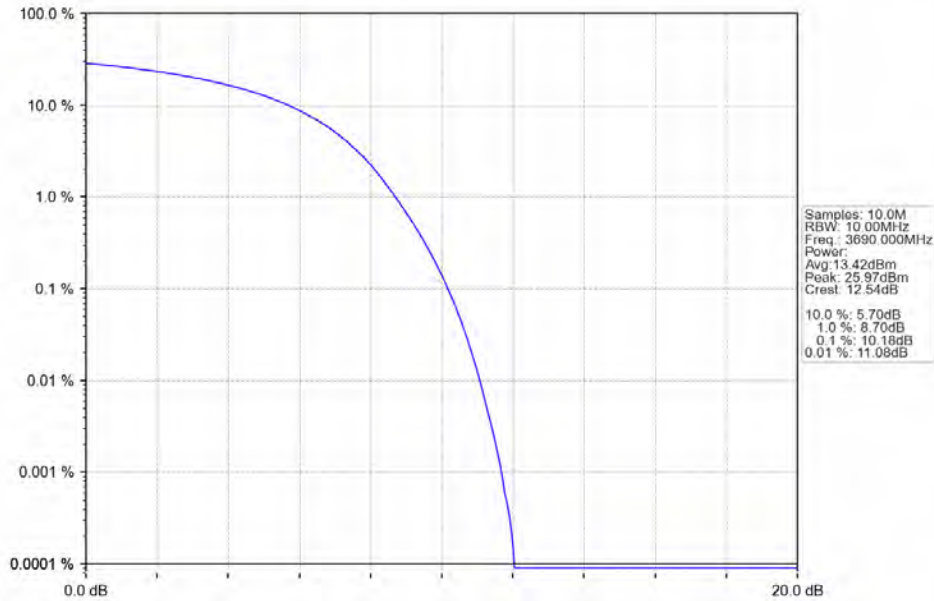
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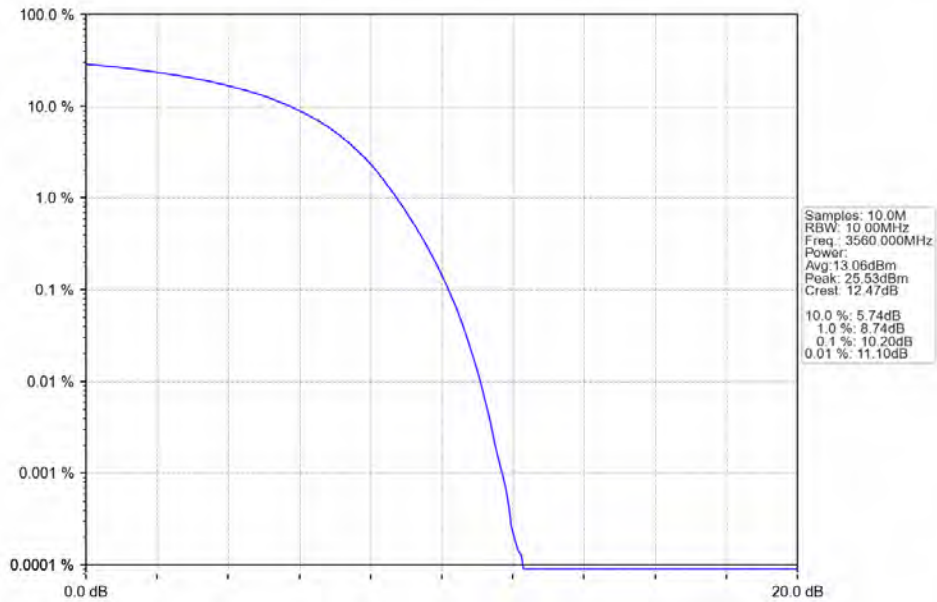
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Band48_20MHz_64QAM_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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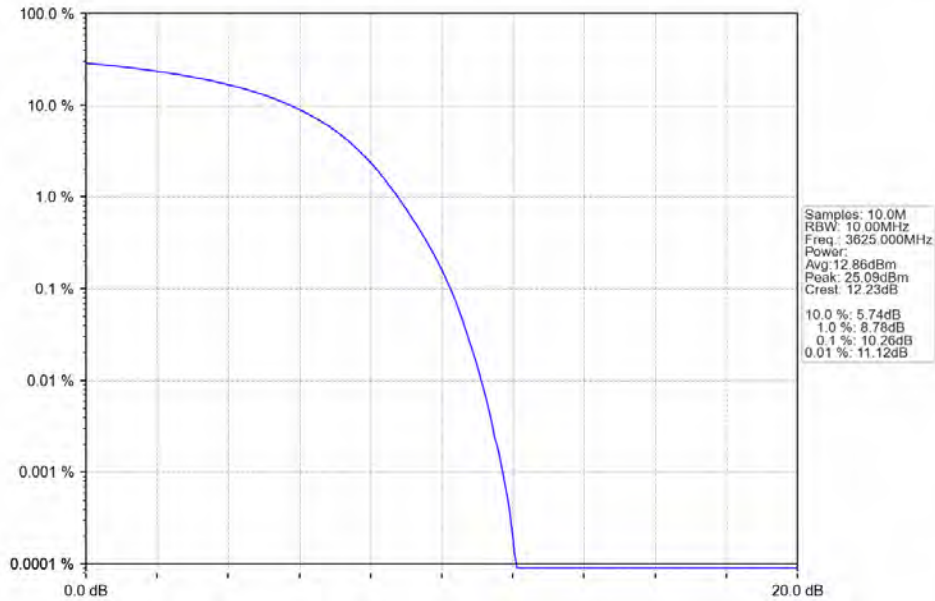
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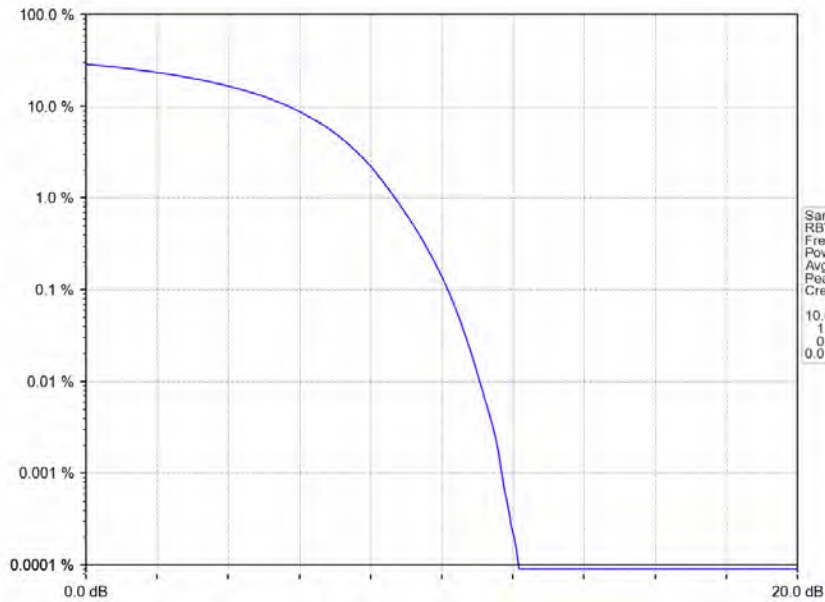
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Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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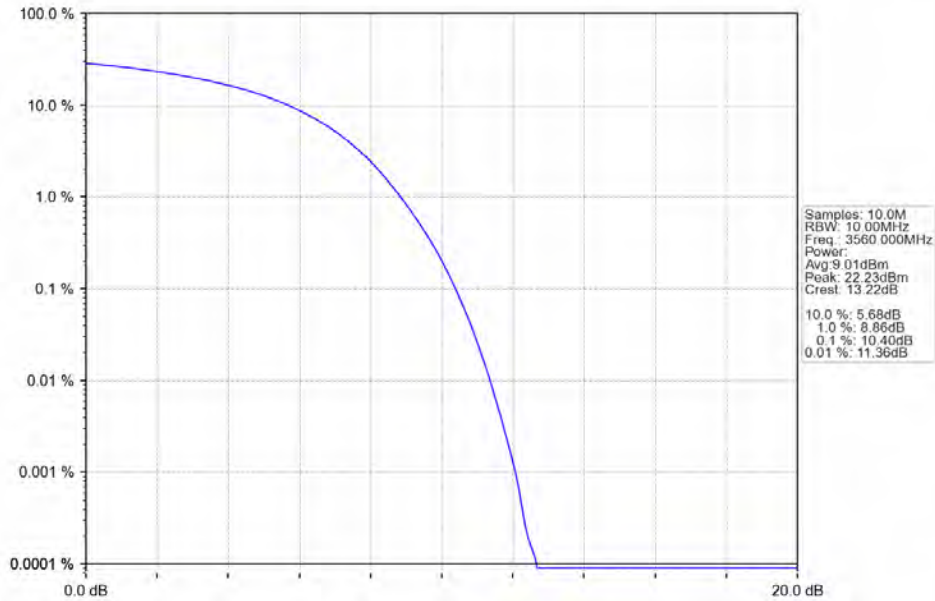
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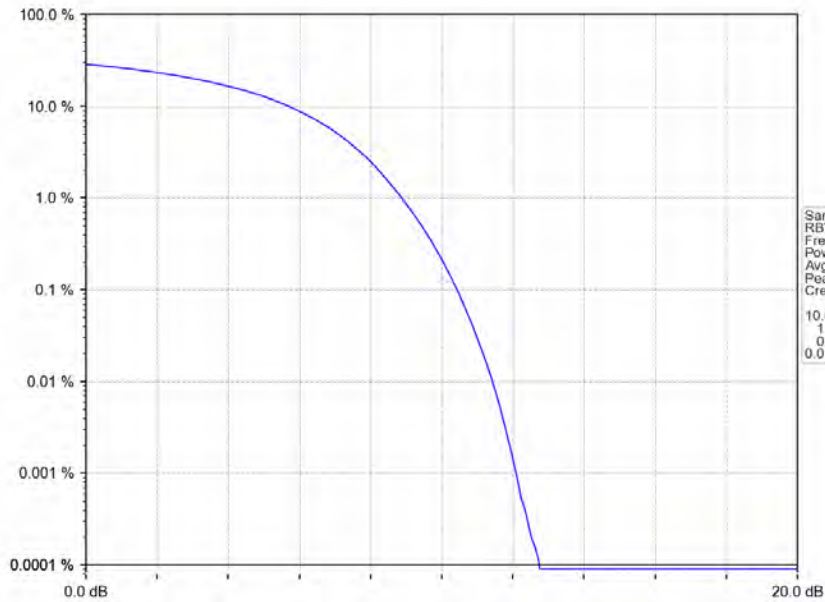
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Band48 20MHz 256QAM MCH 3625MHz RB 100 0 NTN



Band48 20MHz 256QAM HCH 3690MHz RB 100 0 NTN



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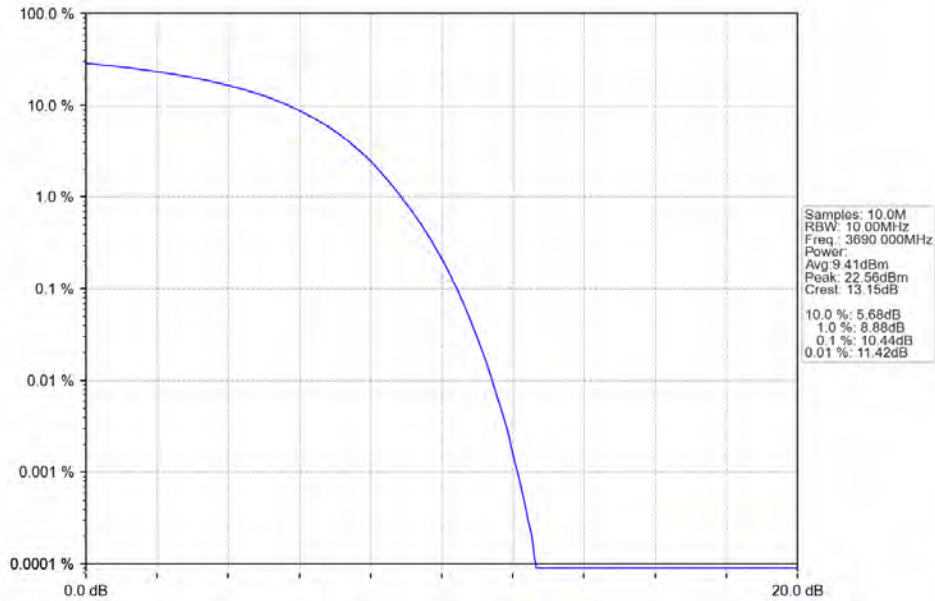
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5. Spurious Emission & Band Edges

5.1 B48_5MHz

5.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV						
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
	3697.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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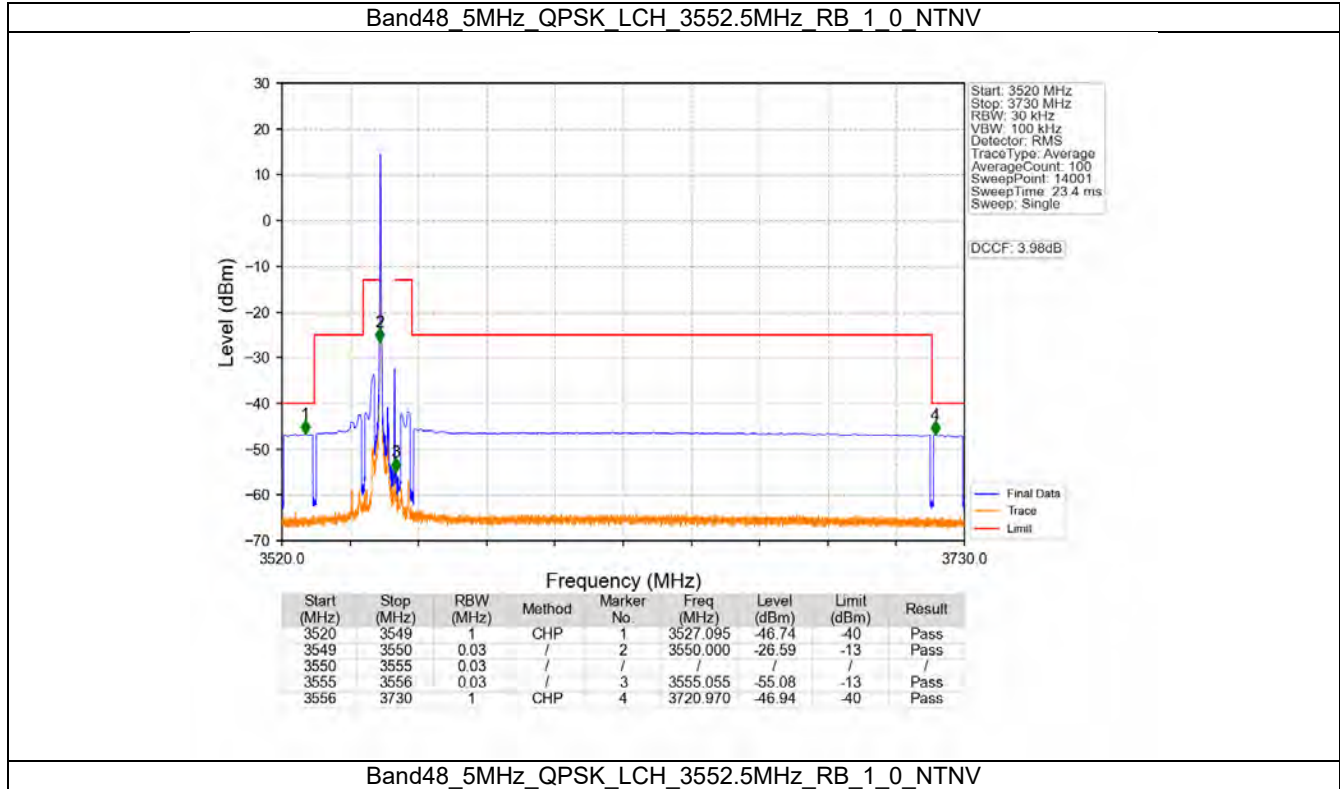
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5.1.2 Test Graph



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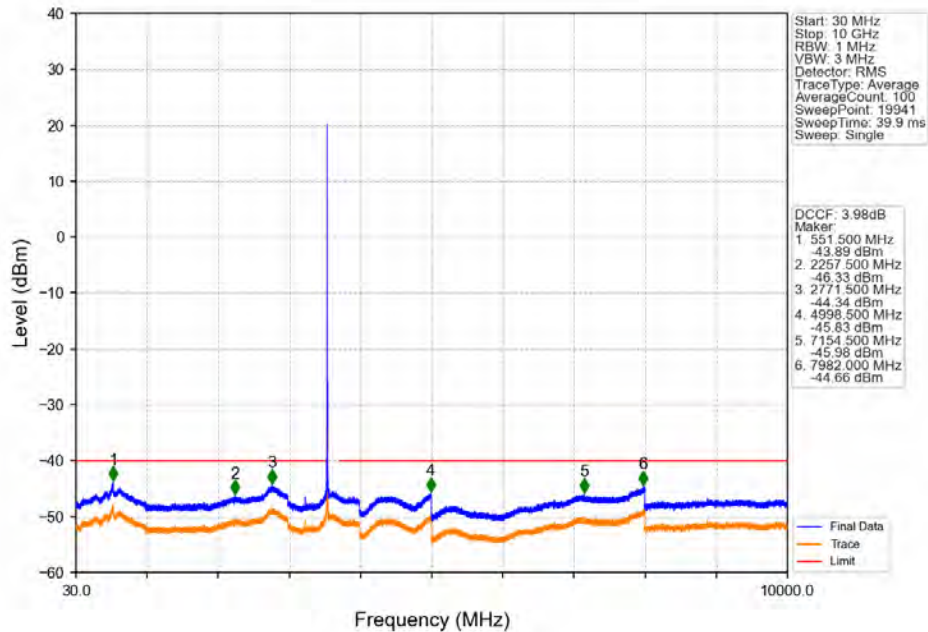
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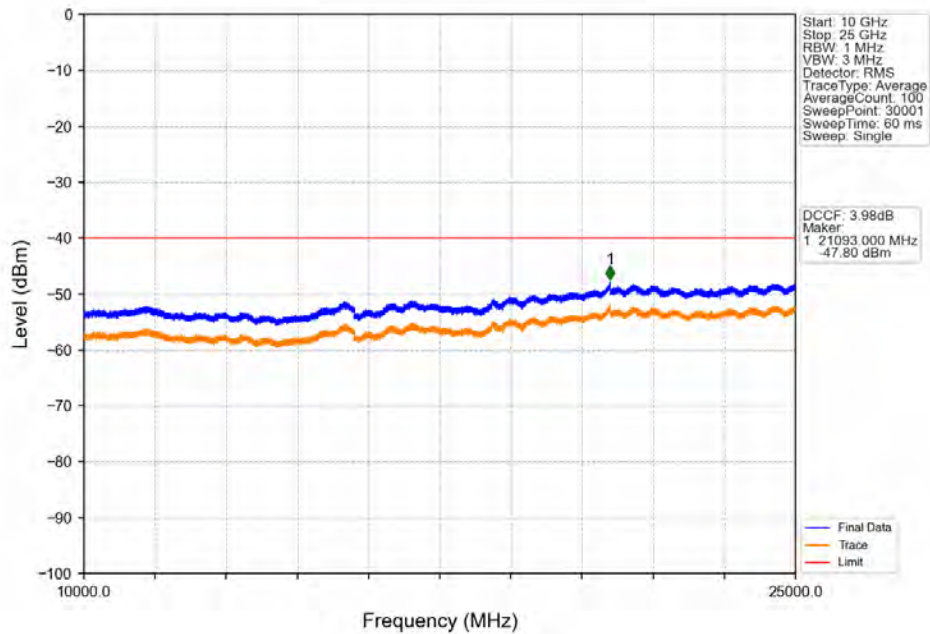
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



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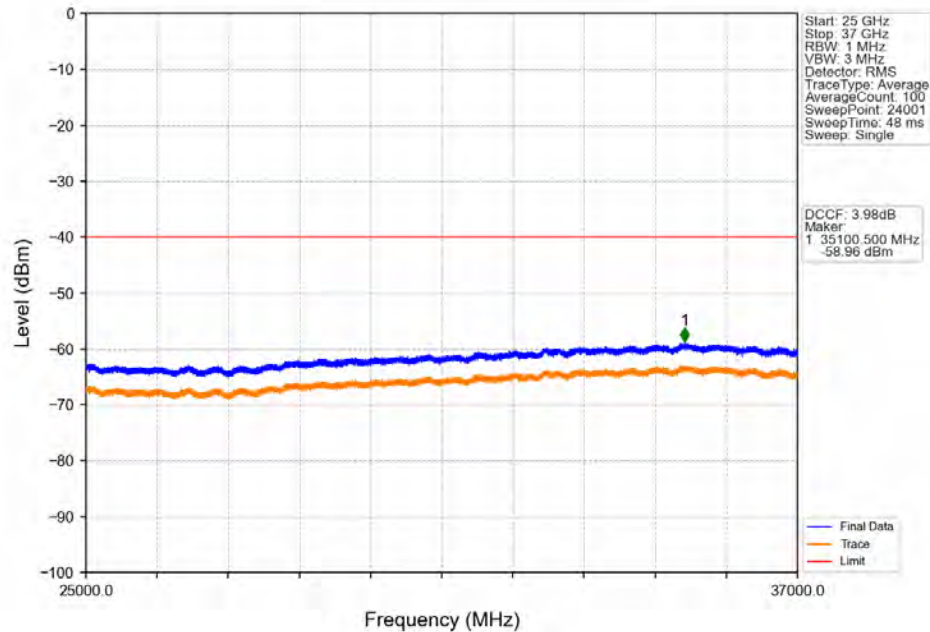
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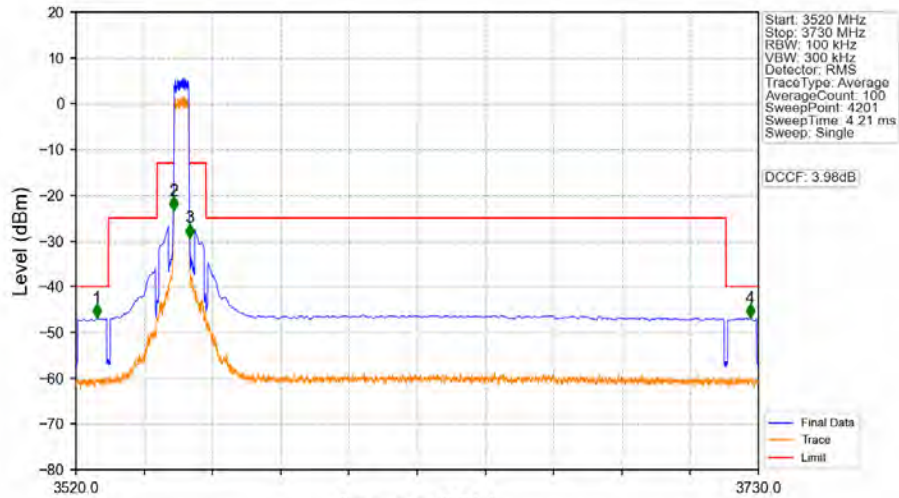
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3526.450	-46.92	-40	Pass
3549	3550	0.1	/	2	3550.000	-23.40	-13	Pass
3550	3555	0.1	/	3	3555.000	-29.31	-13	Pass
3555	3556	0.1	/	4	3556.000	-46.86	-40	Pass
3556	3730	1	CHP	4	3727.500	-46.86	-40	Pass

Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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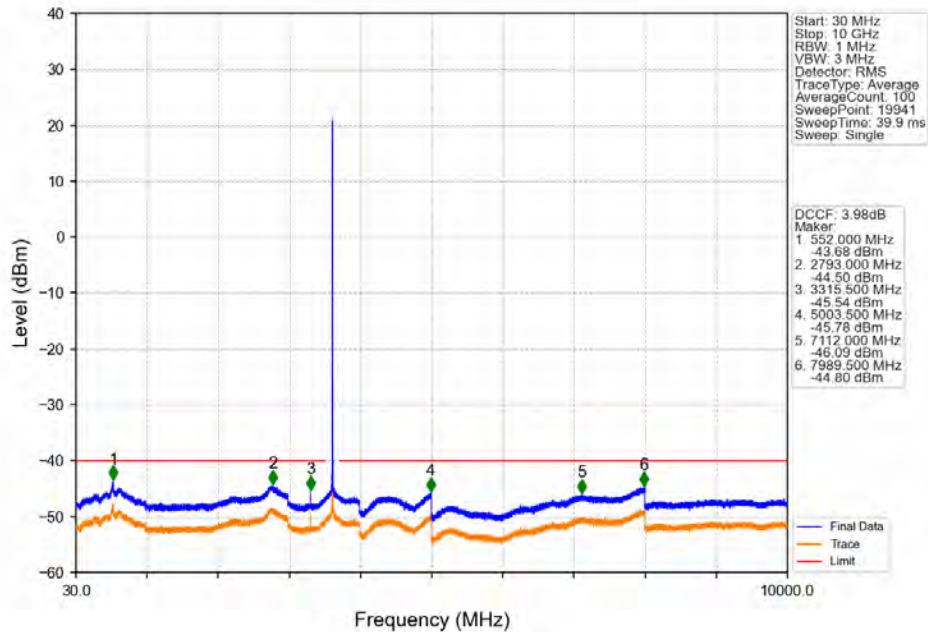
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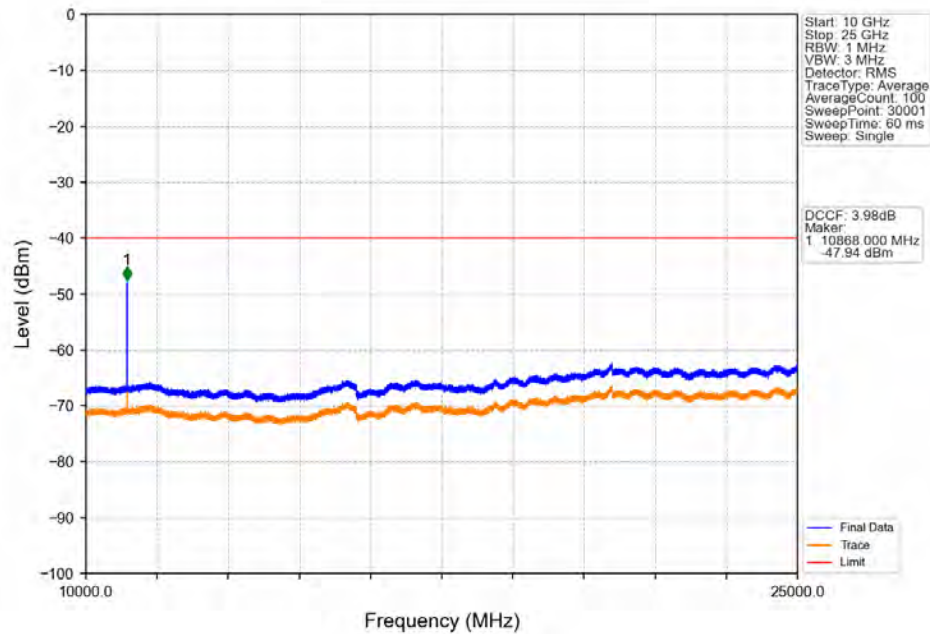
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Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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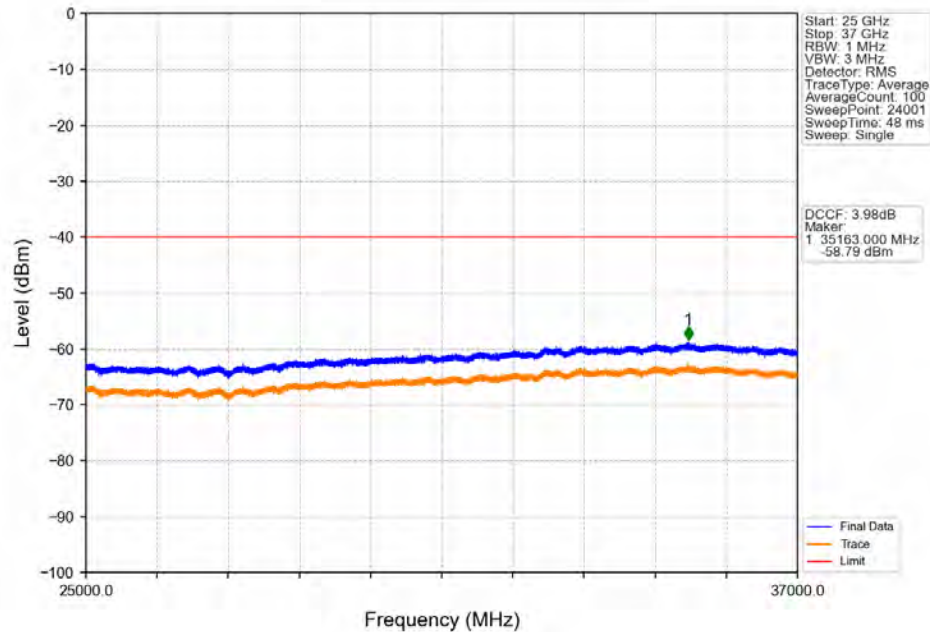
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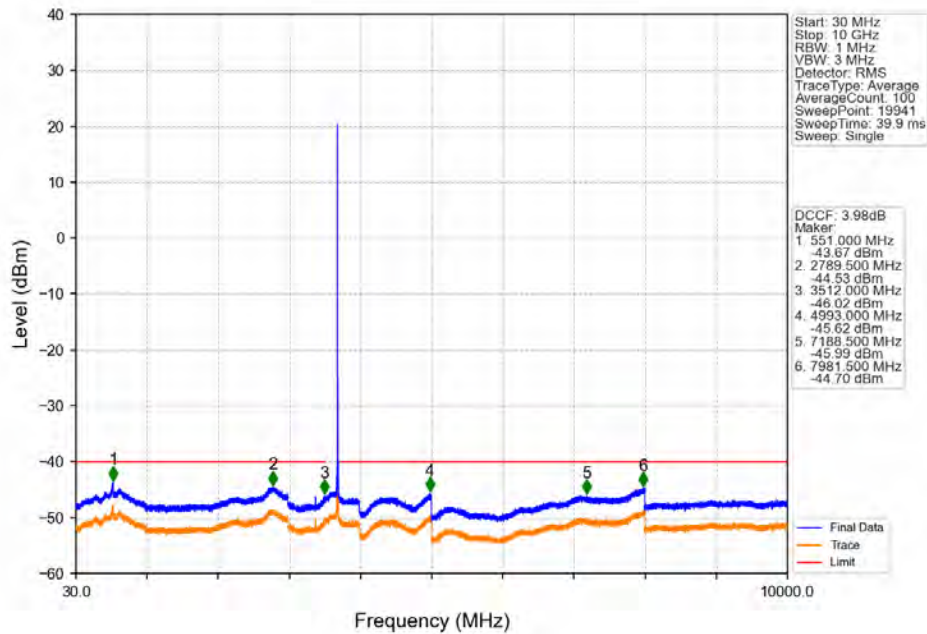
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



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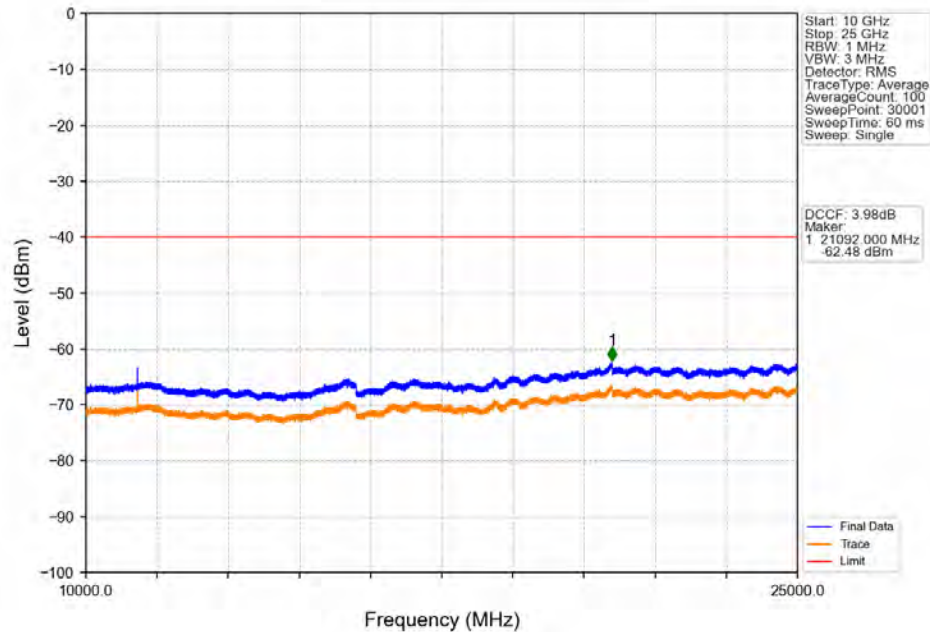
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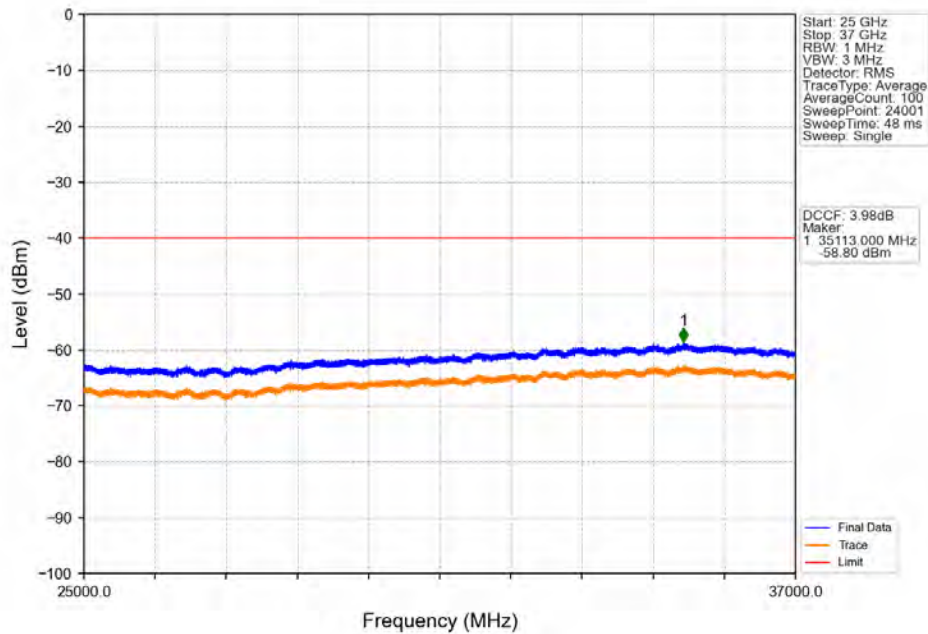
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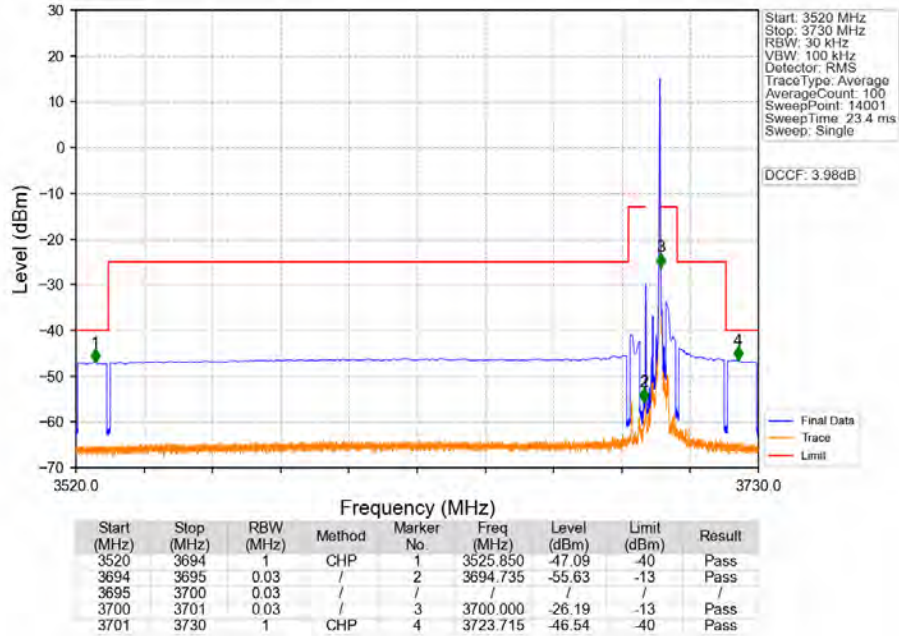
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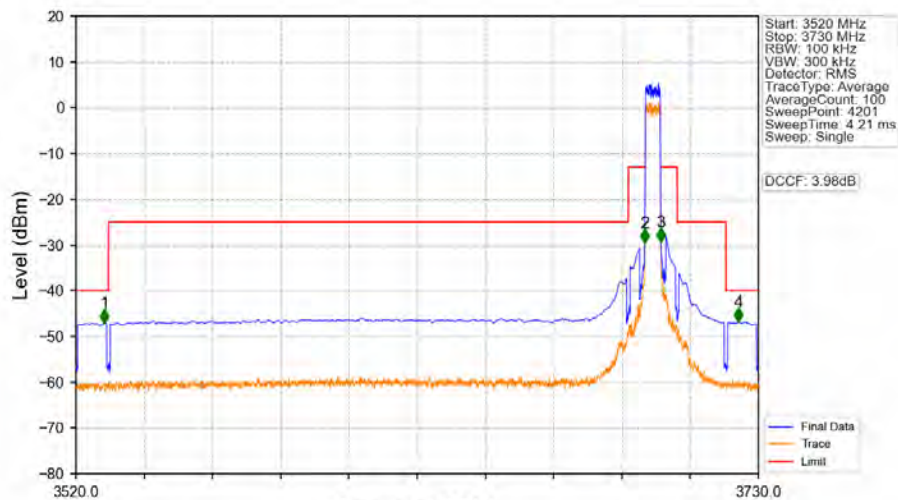
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3694	1	CHP	1	3528.800	-47.11	-40	Pass
3694	3695	0.1	/	2	3695.000	-29.62	-13	Pass
3695	3700	0.1	/	3	3700.000	-29.35	-13	Pass
3700	3701	0.1	/	4	3723.900	-46.83	-40	Pass
3701	3730	1	CHP					



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5.2 B48_10MHz

5.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
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
	3695	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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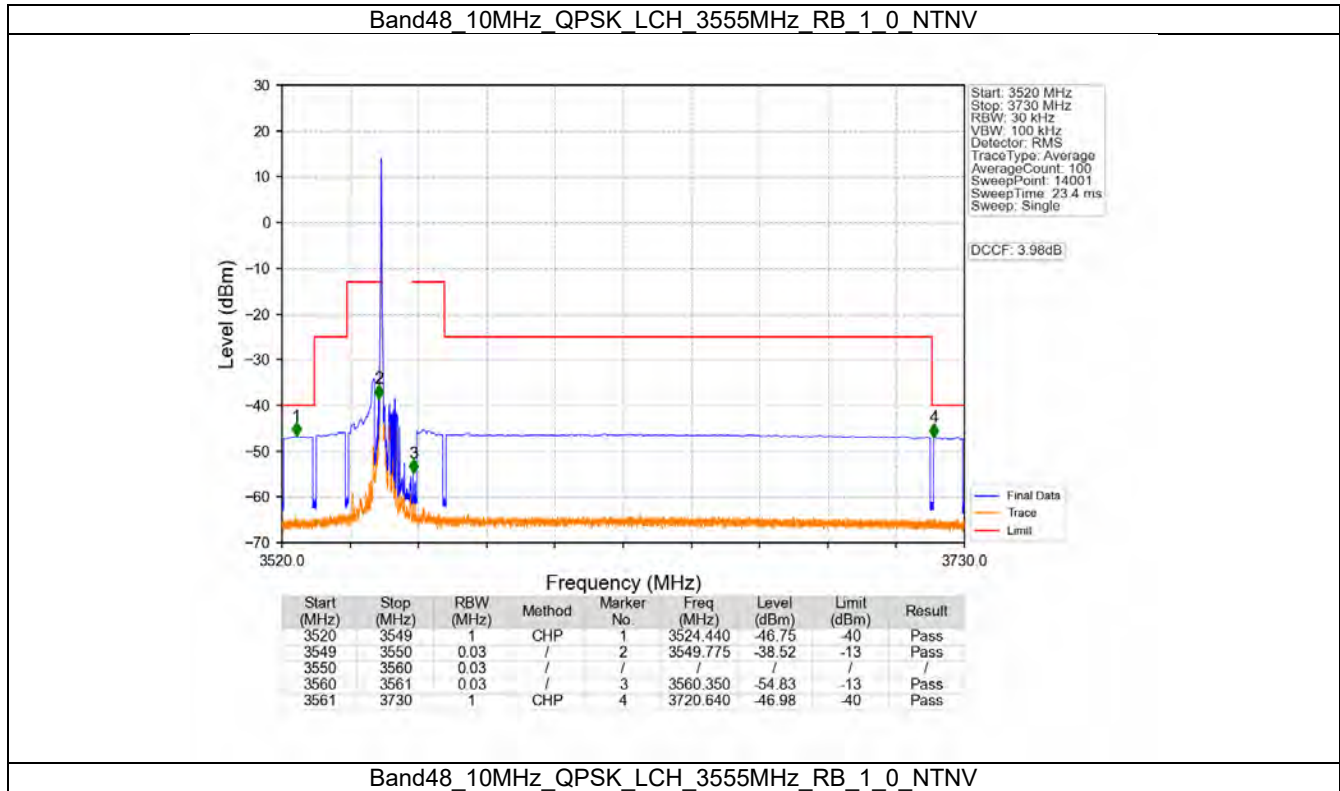
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5.2.2 Test Graph



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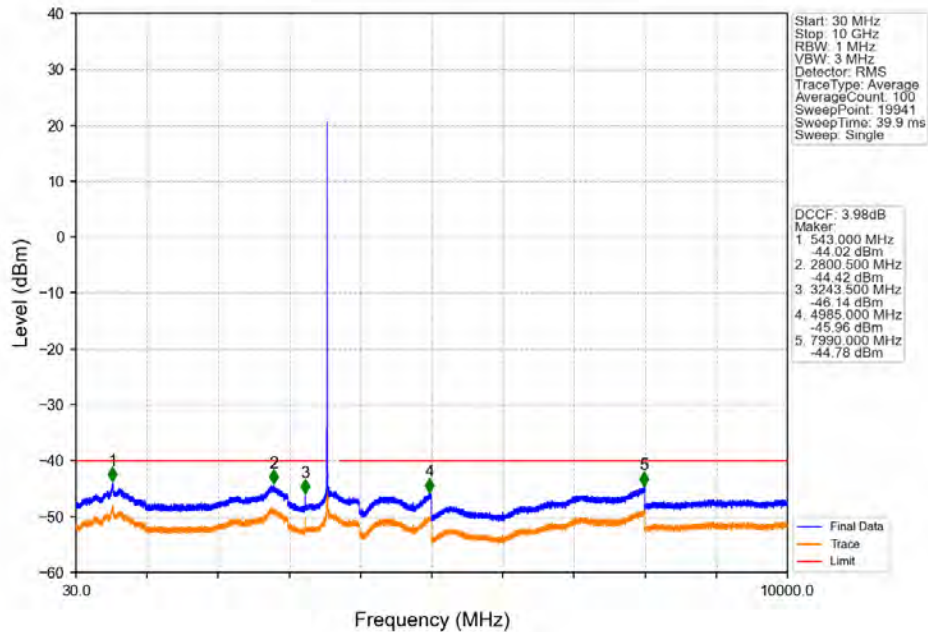
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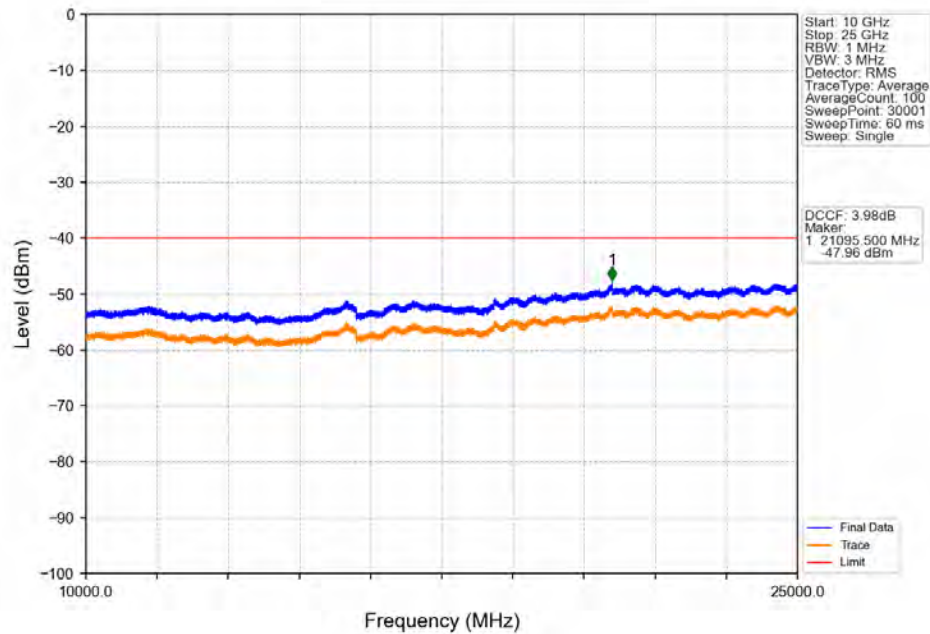
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Band48 10MHz QPSK LCH 3555MHz RB 1 0 NTN



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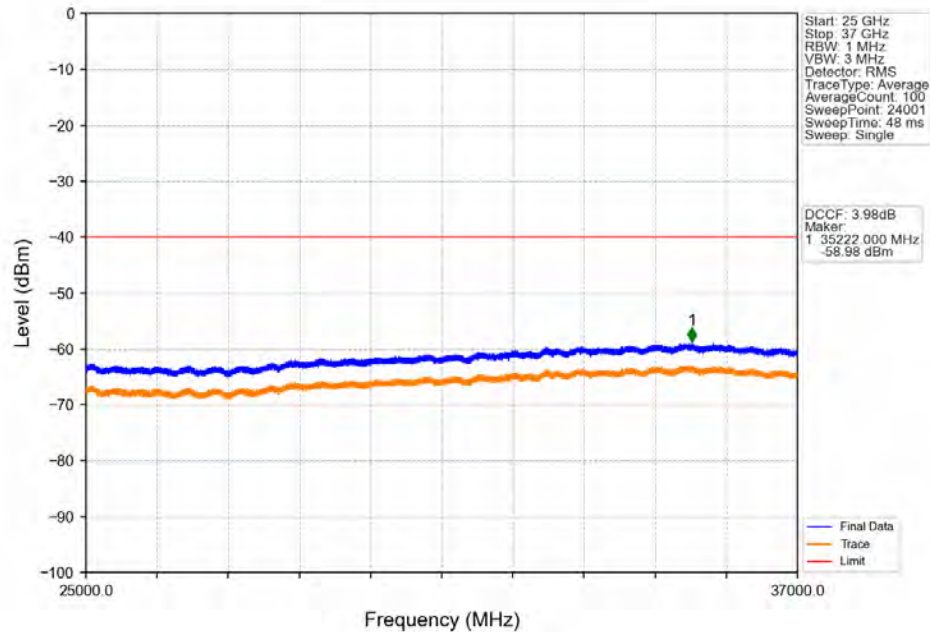
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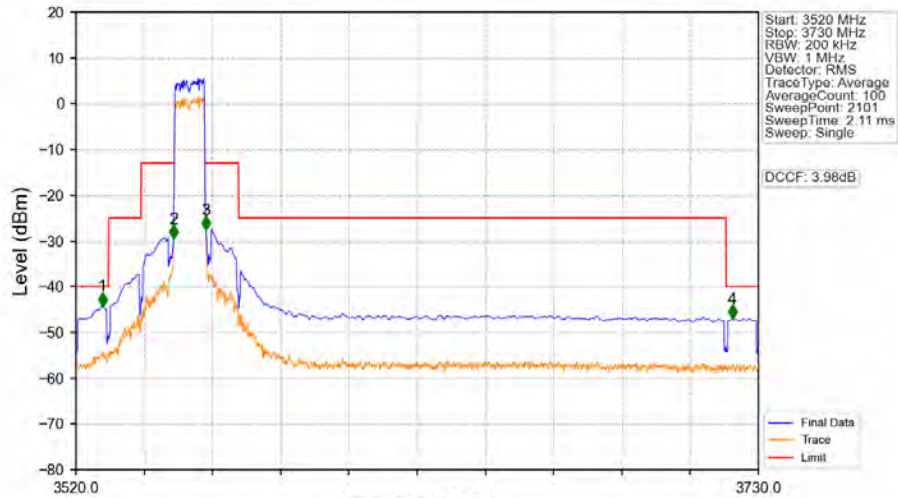
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Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3528.100	-44.30	-40	Pass
3549	3550	0.2	/	2	3550.000	-29.54	-13	Pass
3550	3560	0.2	/	3	3560.000	-27.63	-13	Pass
3560	3561	0.2	/	4	3722.000	-47.03	-40	Pass
3561	3730	1	CHP					

Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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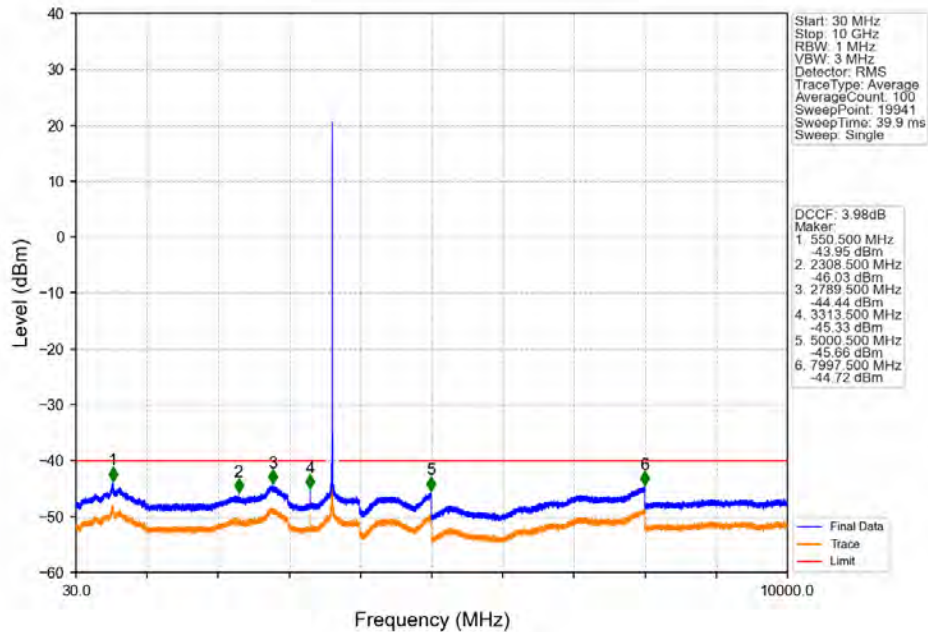
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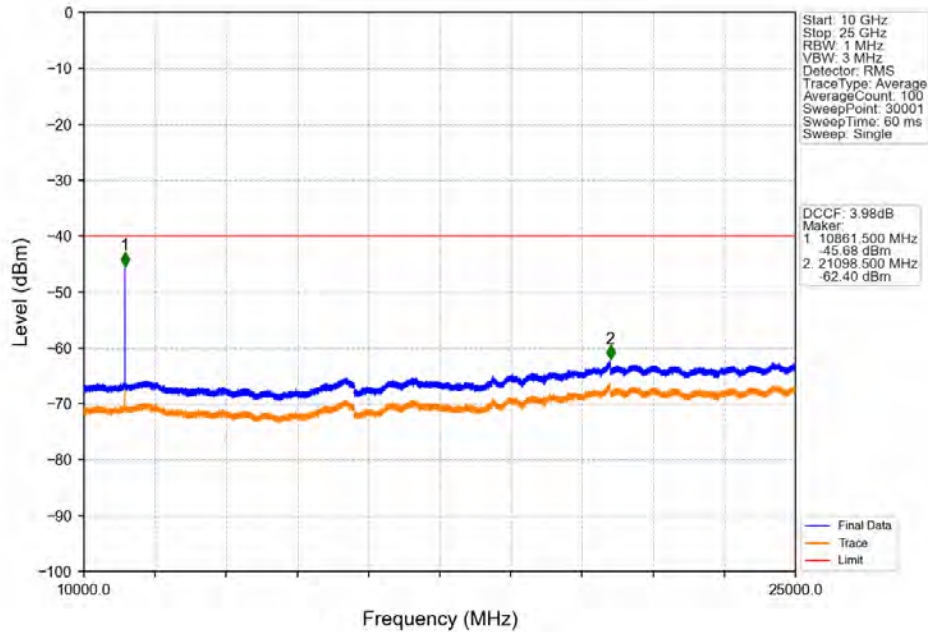
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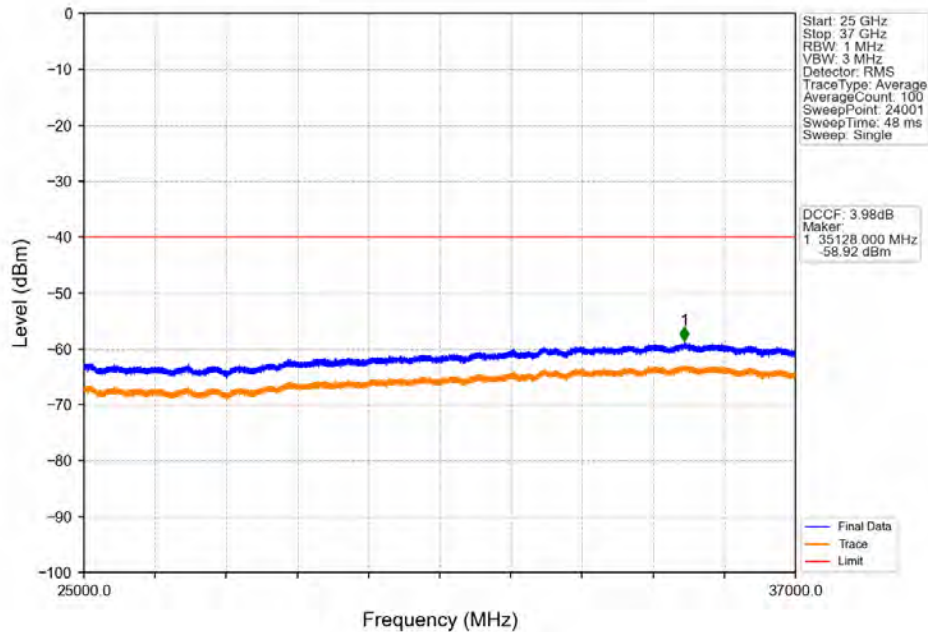
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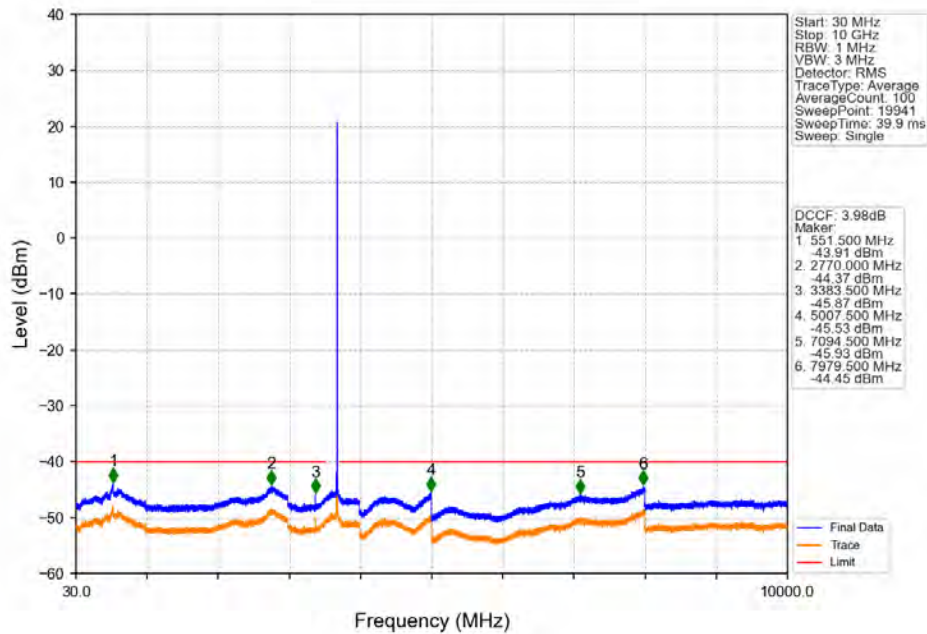
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Band48 10MHz QPSK HCH 3695MHz RB 1 0 NTNV



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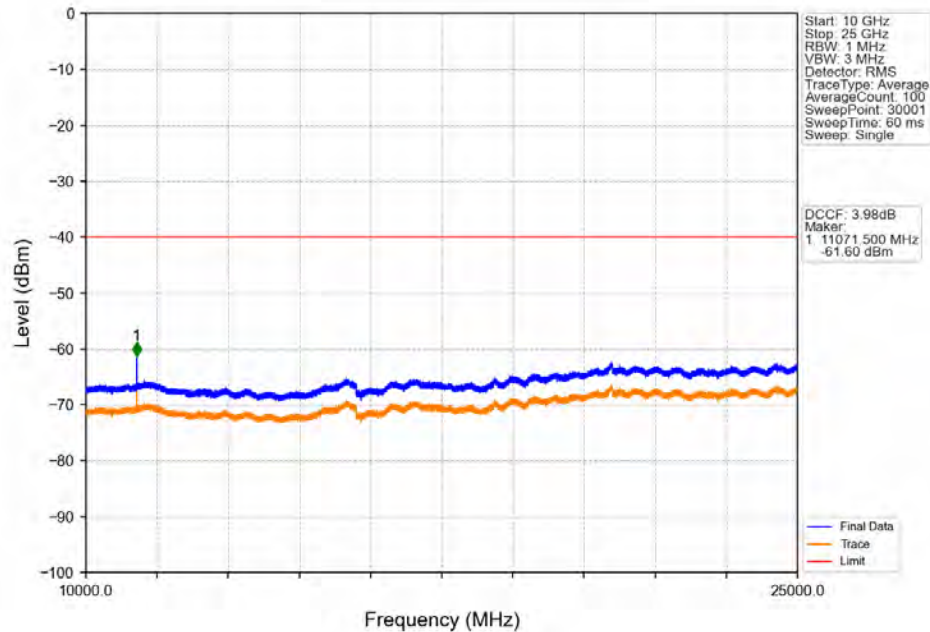
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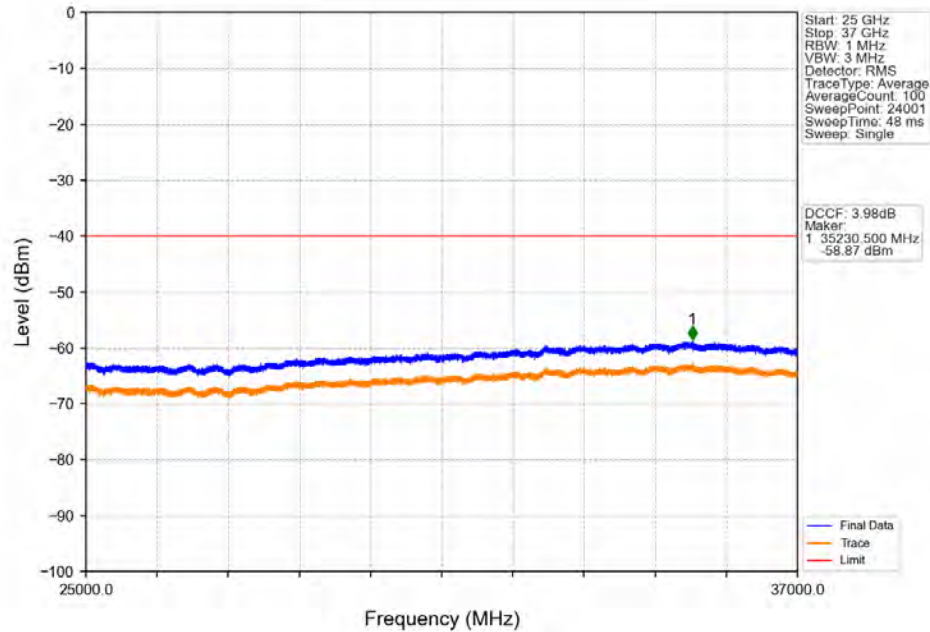
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Band48_10MHz_QPSK_HCH_3695MHz_RB_1_0_NTNV



Band48_10MHz_QPSK_HCH_3695MHz_RB_1_49_NTNV



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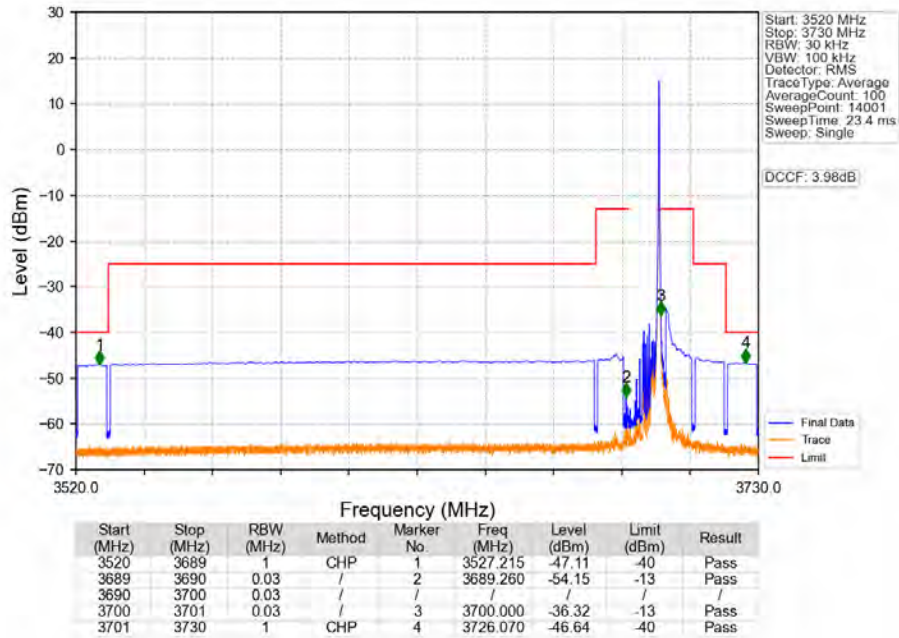
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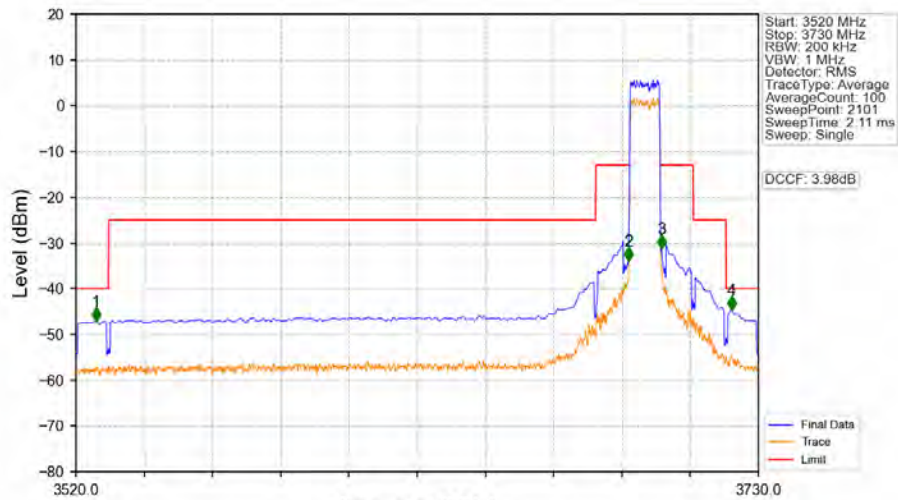
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5.3 B48_15MHz

5.3.1 Test Result

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



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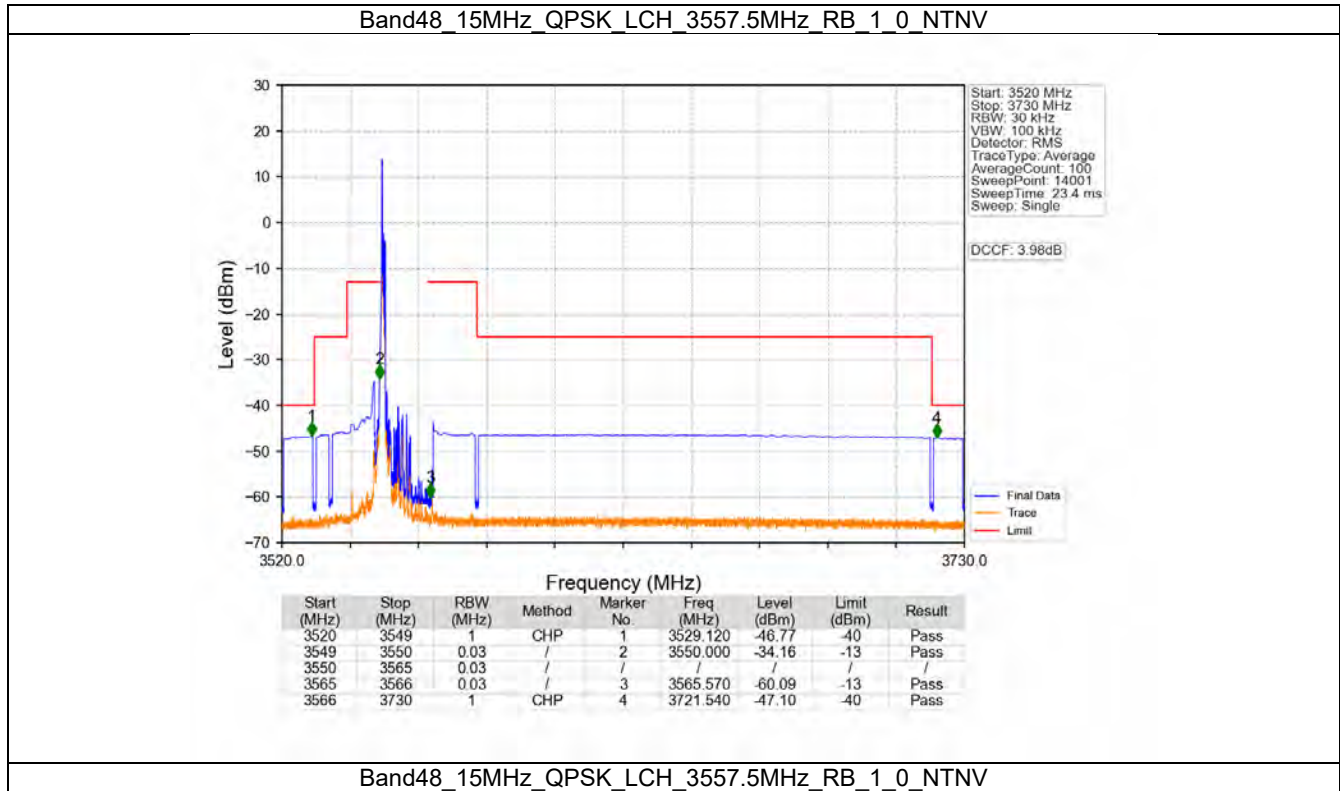
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5.3.2 Test Graph



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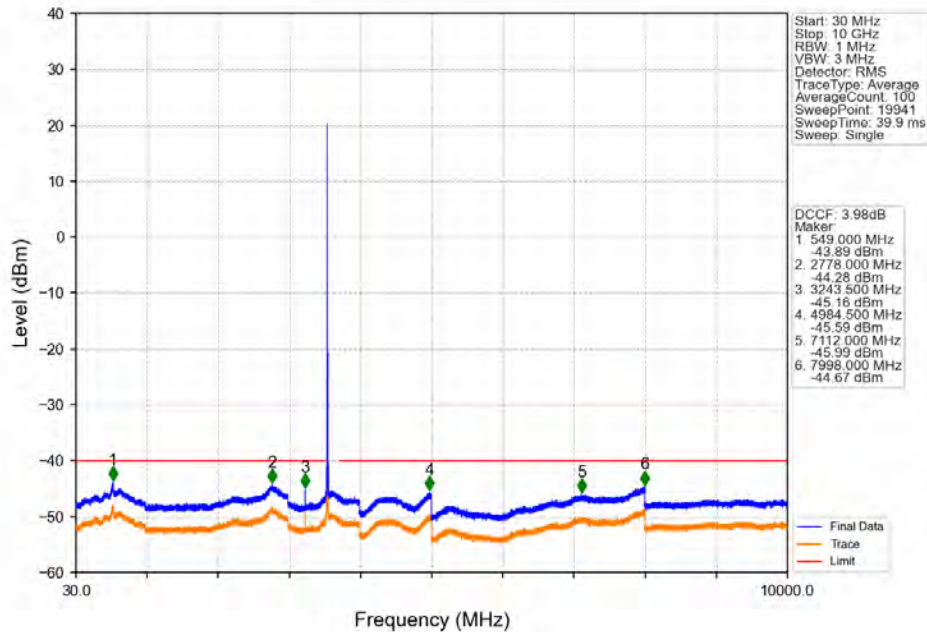
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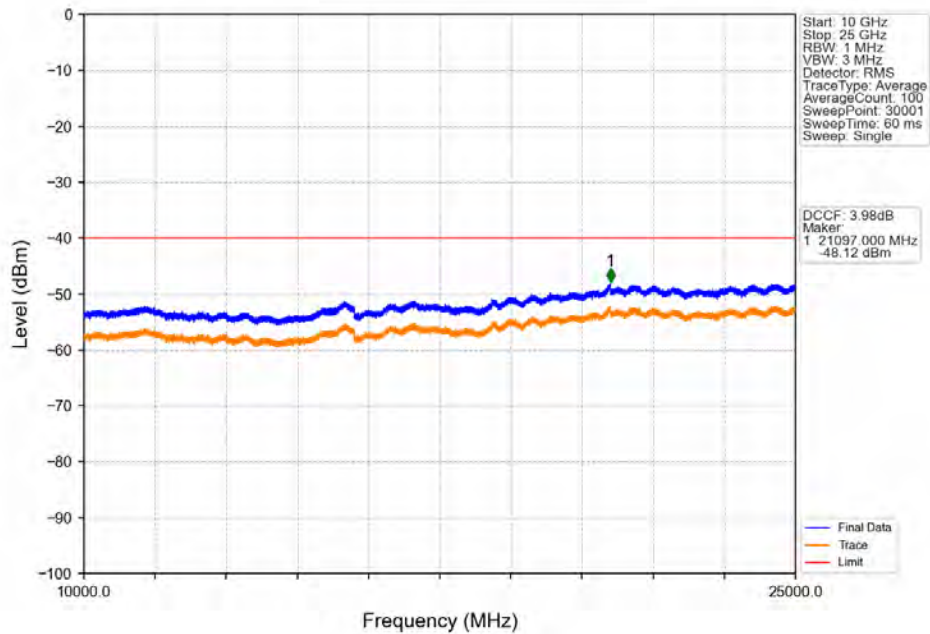
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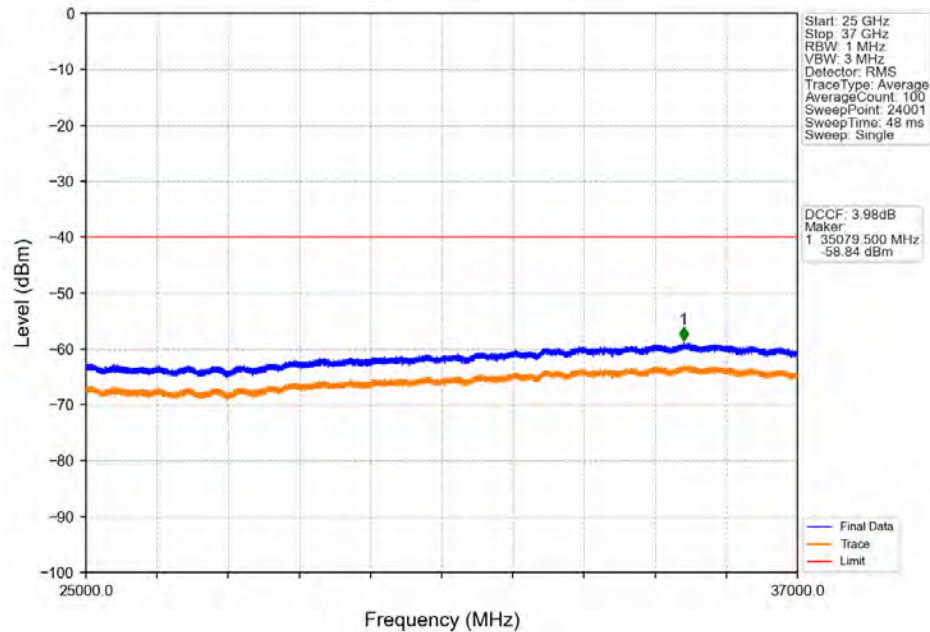
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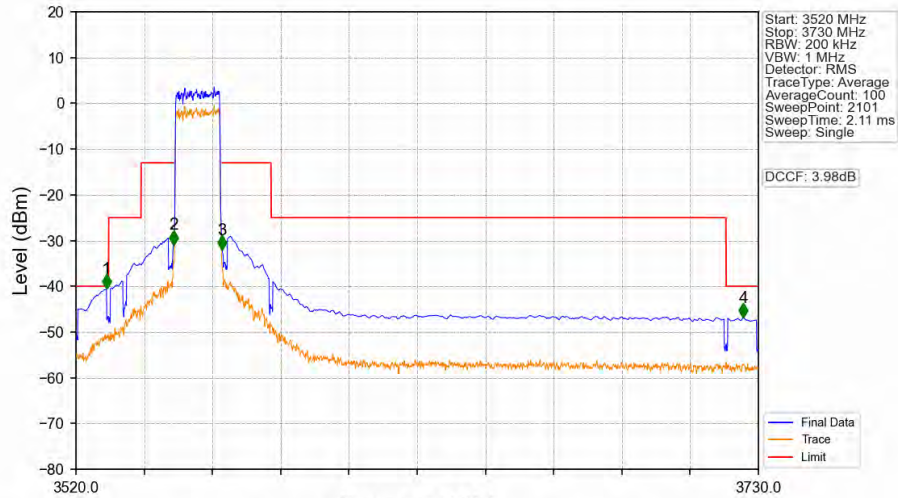
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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3529.400	-40.55	-40	Pass
3549	3550	0.2	/	2	3550.000	-30.90	-13	Pass
3550	3565	0.2	/	/	/	/	/	/
3565	3566	0.2	/	3	3565.000	-32.06	-13	Pass
3566	3730	1	CHP	4	3725.400	-46.82	-40	Pass

Band48 15MHz QPSK MCH 3625MHz RB 1 0 NTN



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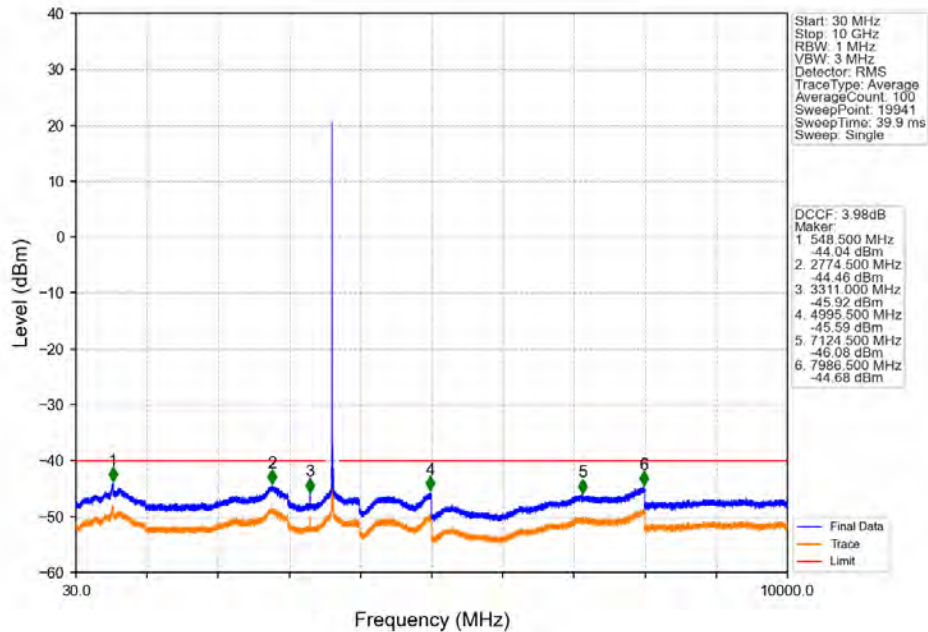
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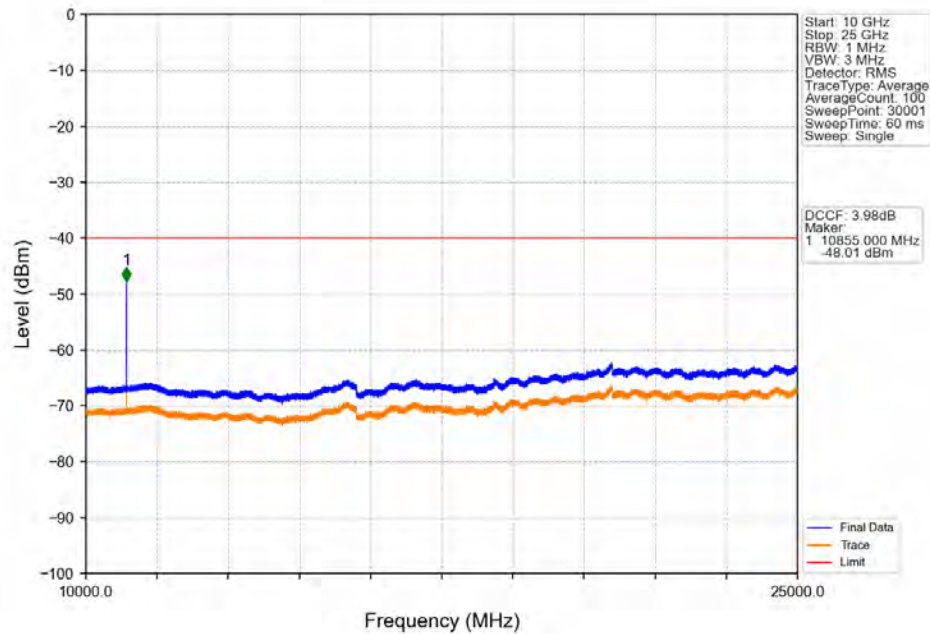
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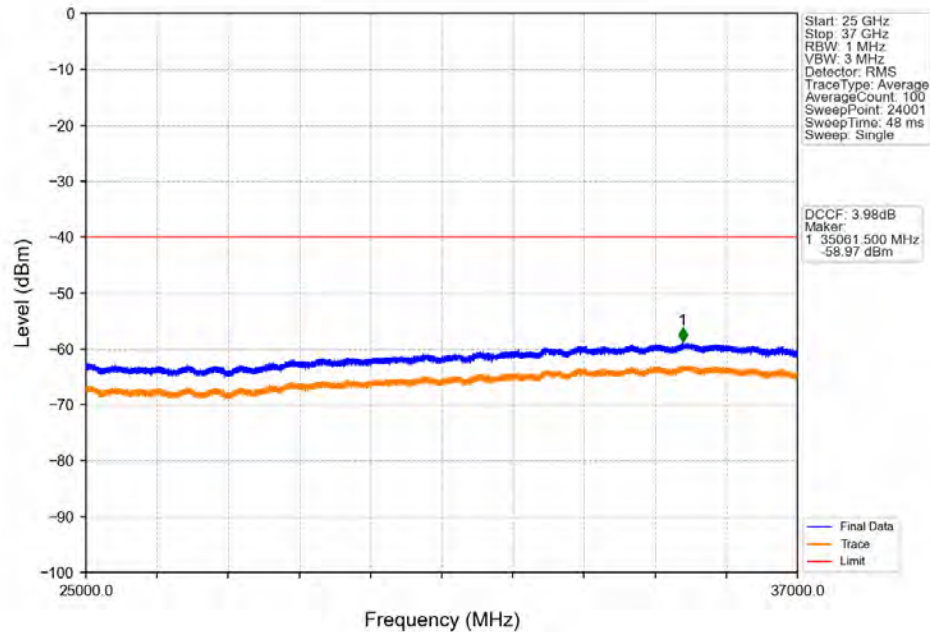
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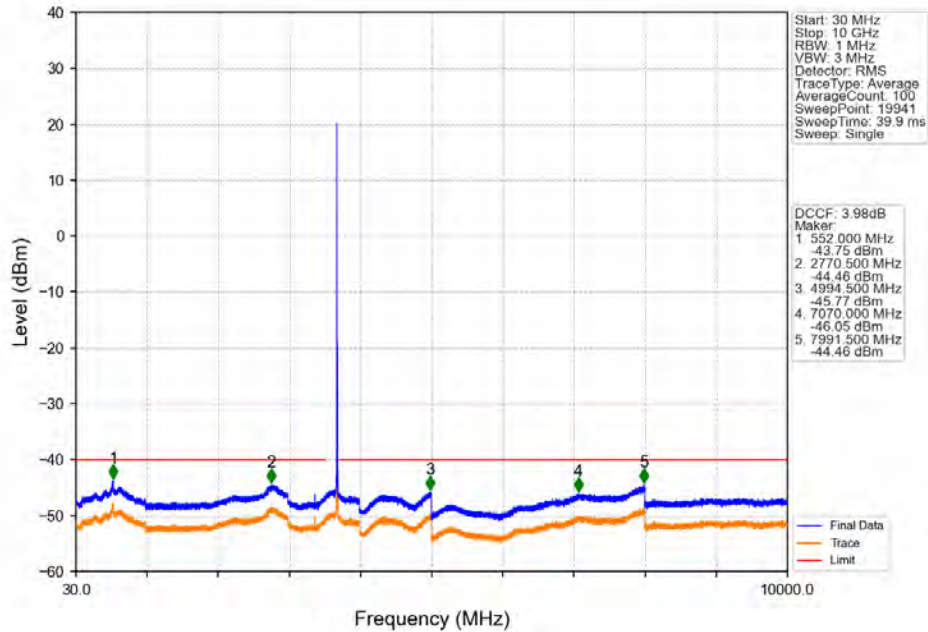
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



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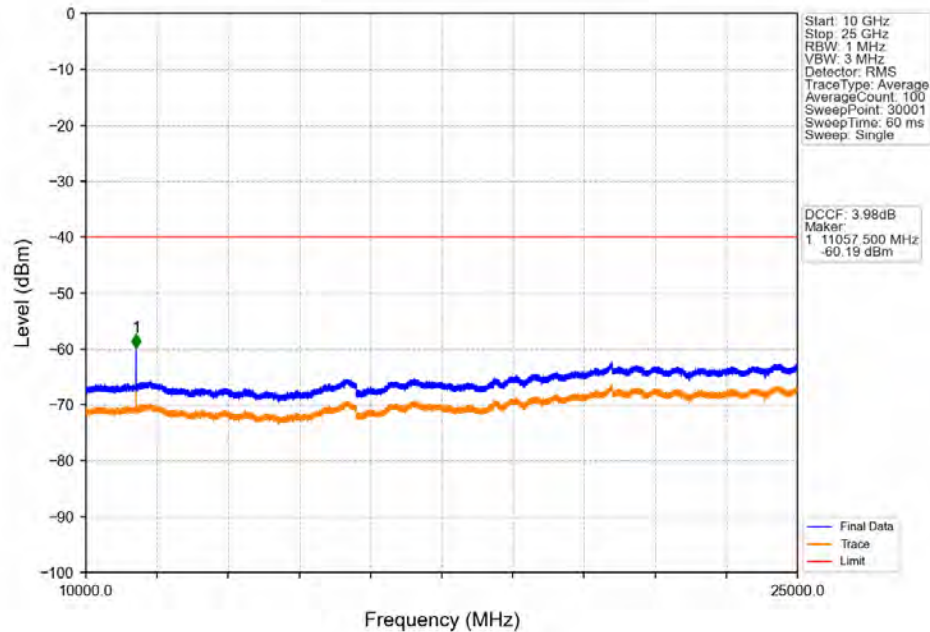
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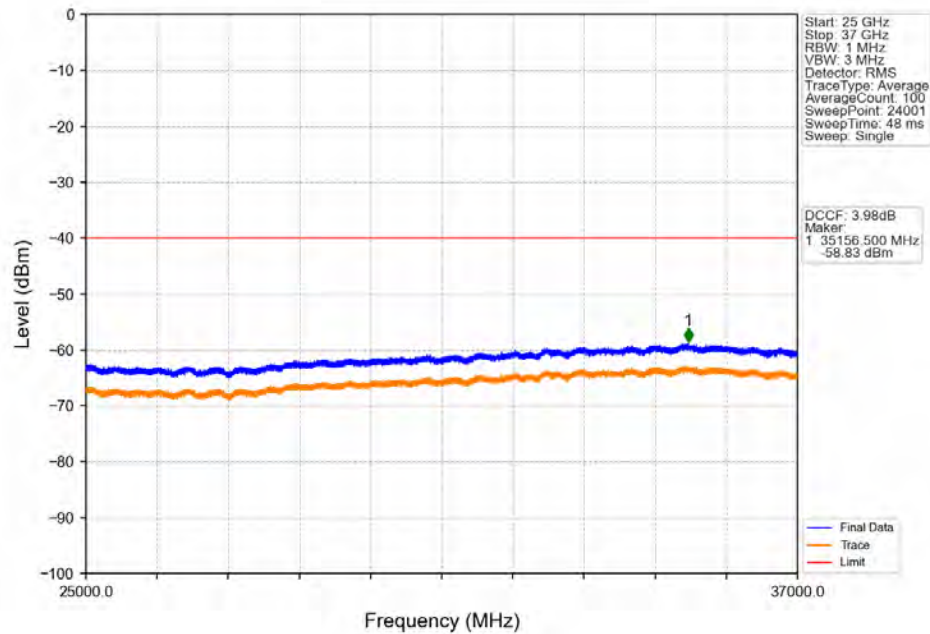
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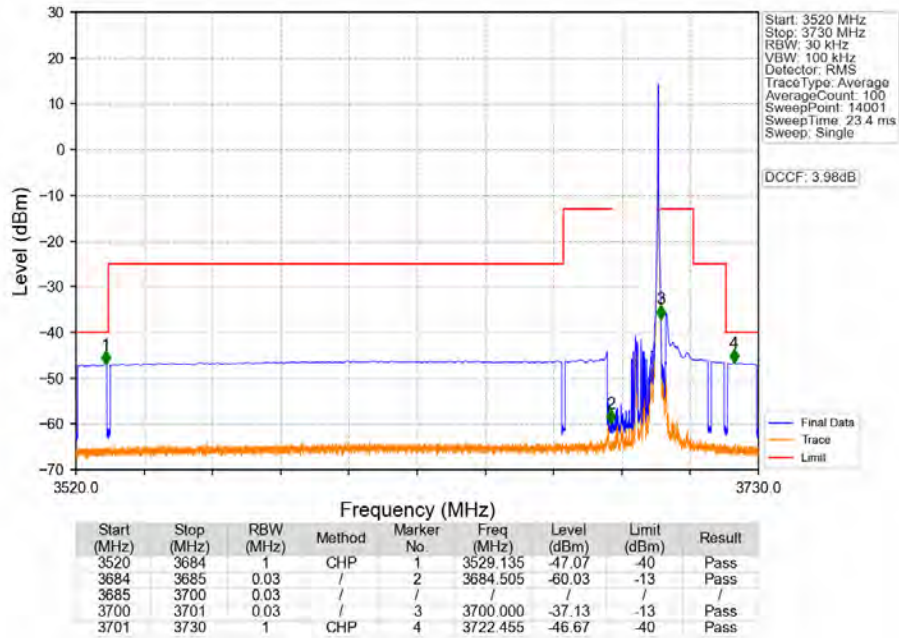
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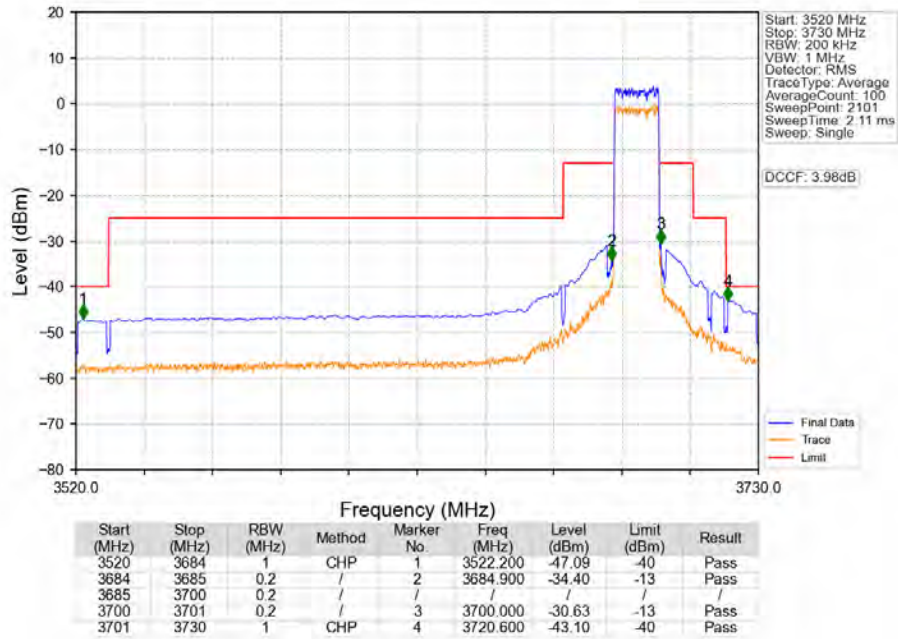
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5.4 B48_20MHz

5.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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



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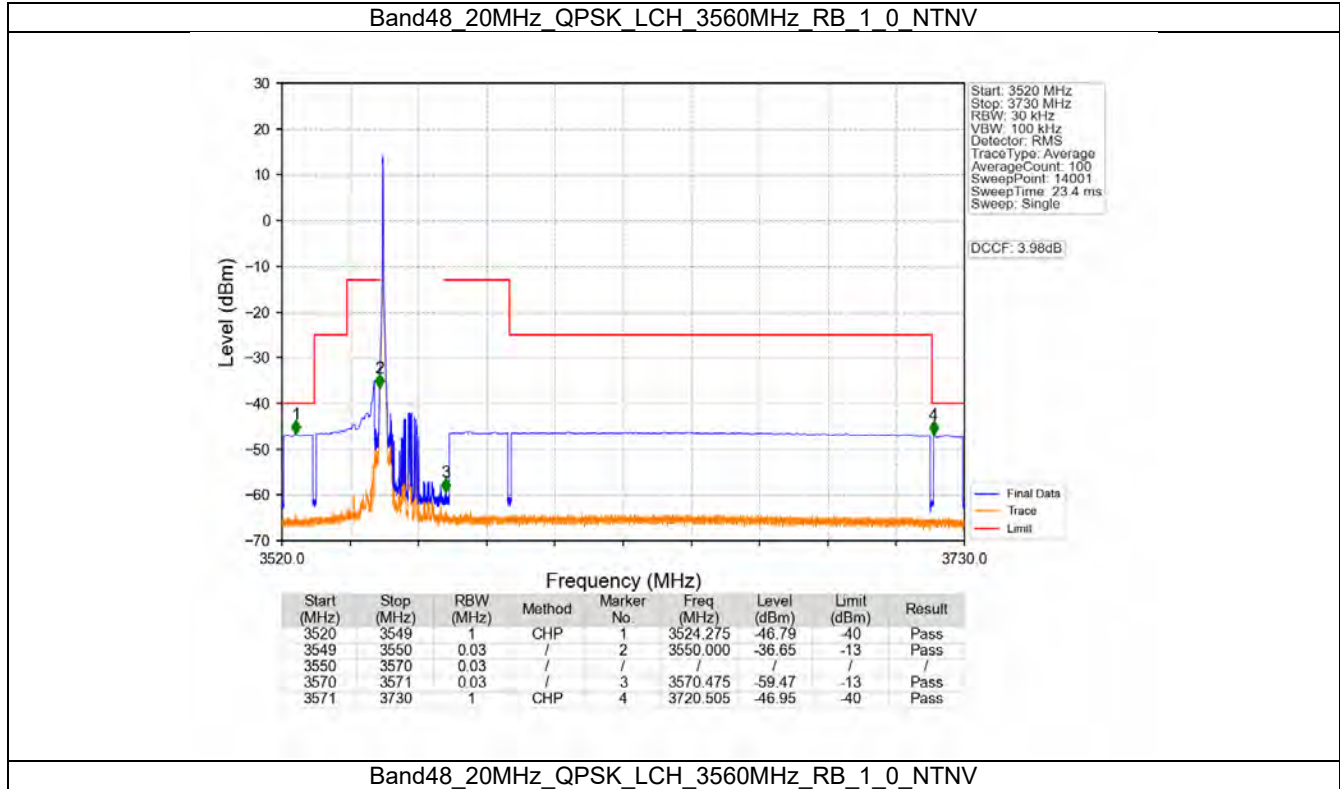
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5.4.2 Test Graph



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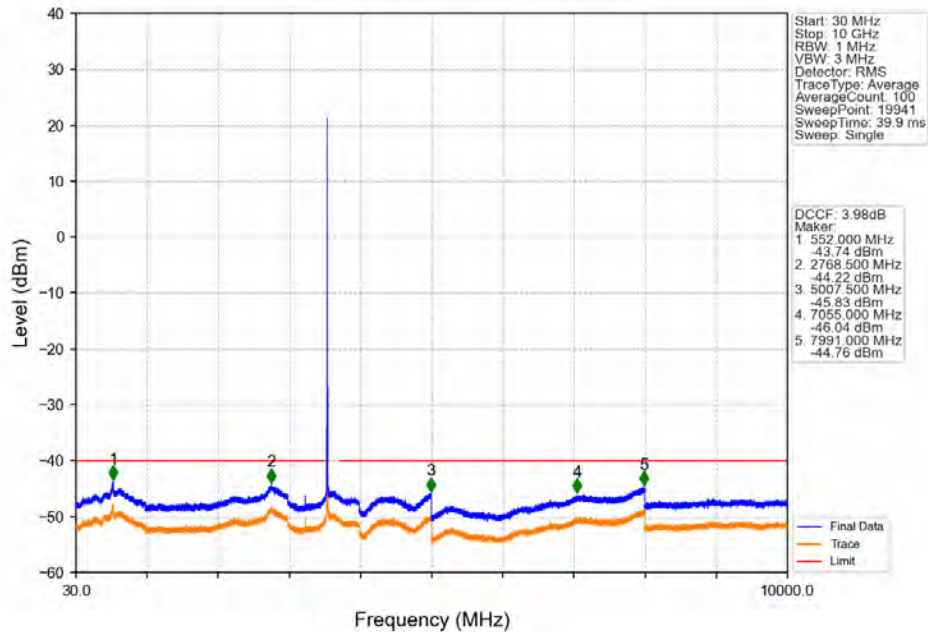
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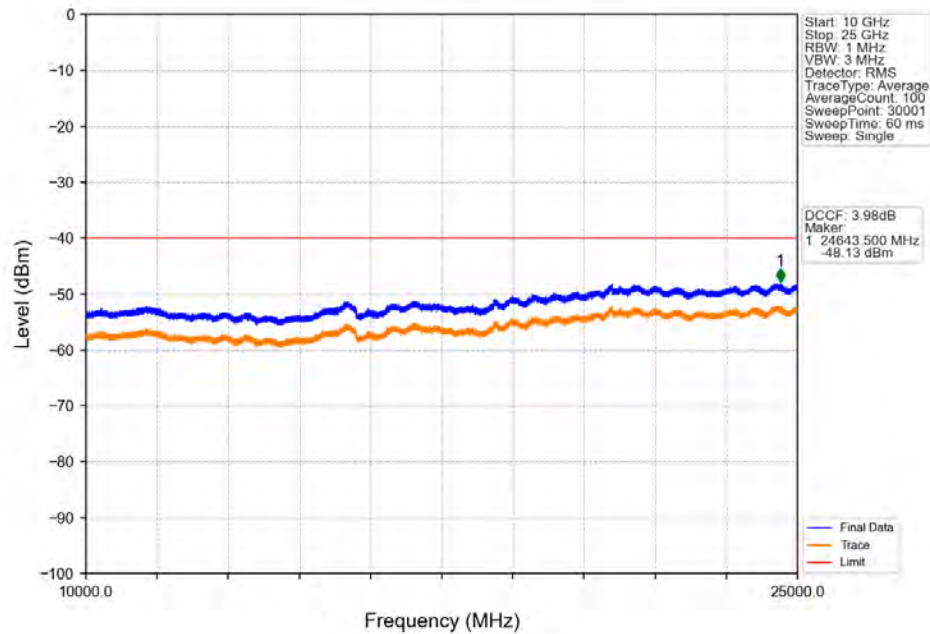
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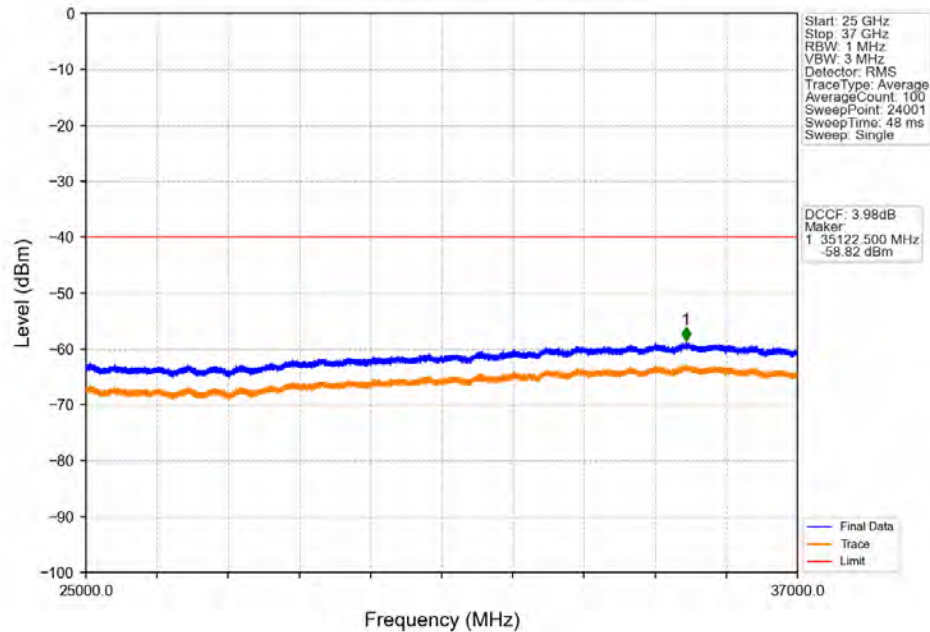
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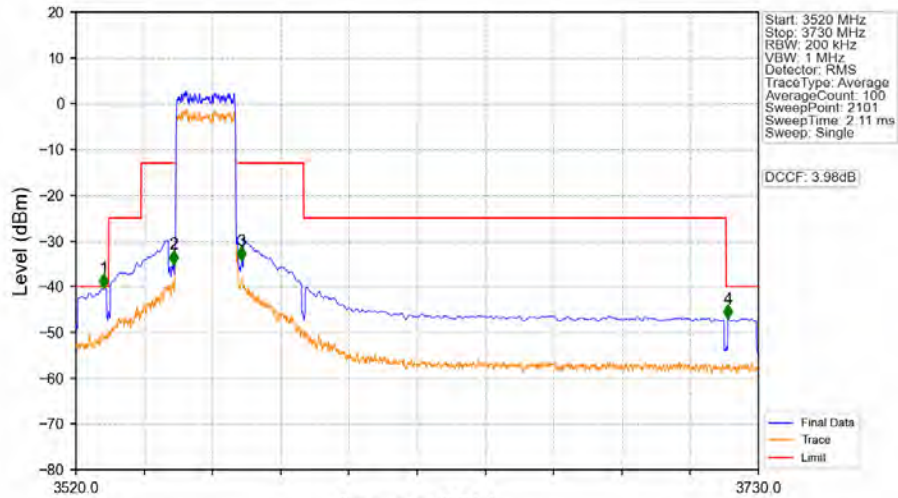
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3528.500	-40.37	-40	Pass
3549	3550	0.2	/	2	3550.000	-35.13	-13	Pass
3550	3570	0.2	/	/	/	/	/	/
3570	3571	0.2	/	3	3571.000	-34.36	-13	Pass
3571	3730	1	CHP	4	3720.600	-47.01	-40	Pass

Band48 20MHz QPSK MCH 3625MHz RB 1 0 NTN



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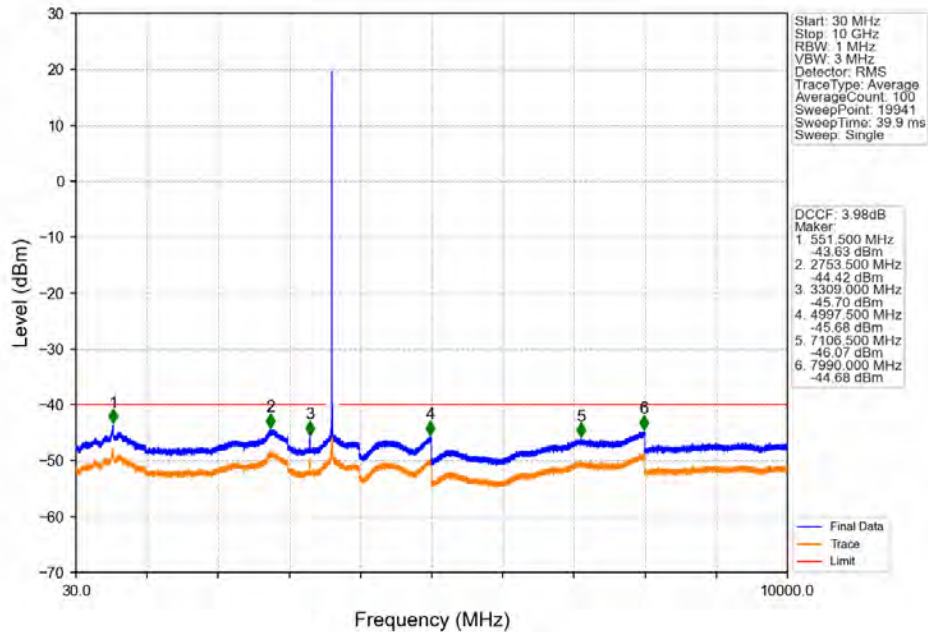
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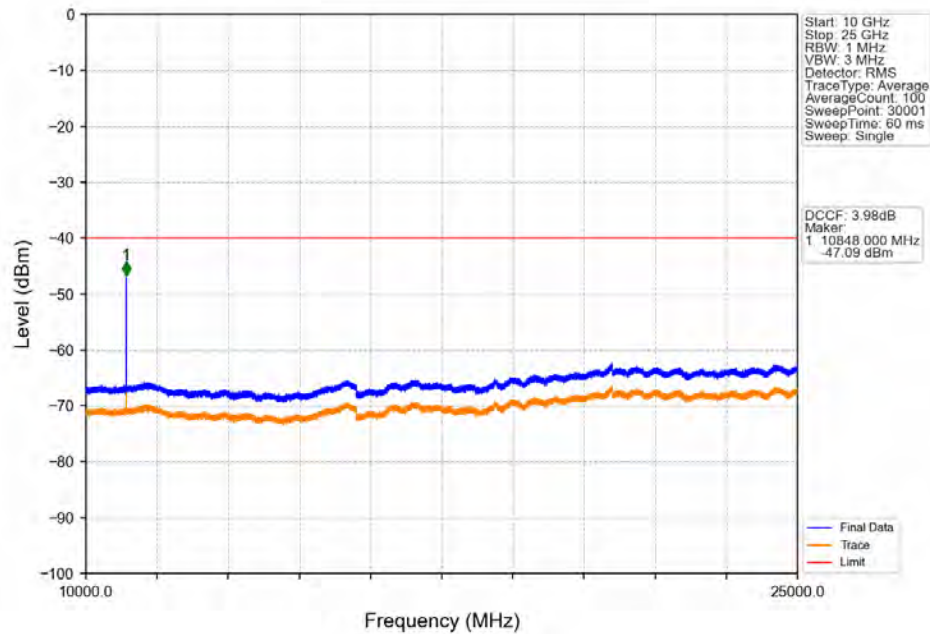
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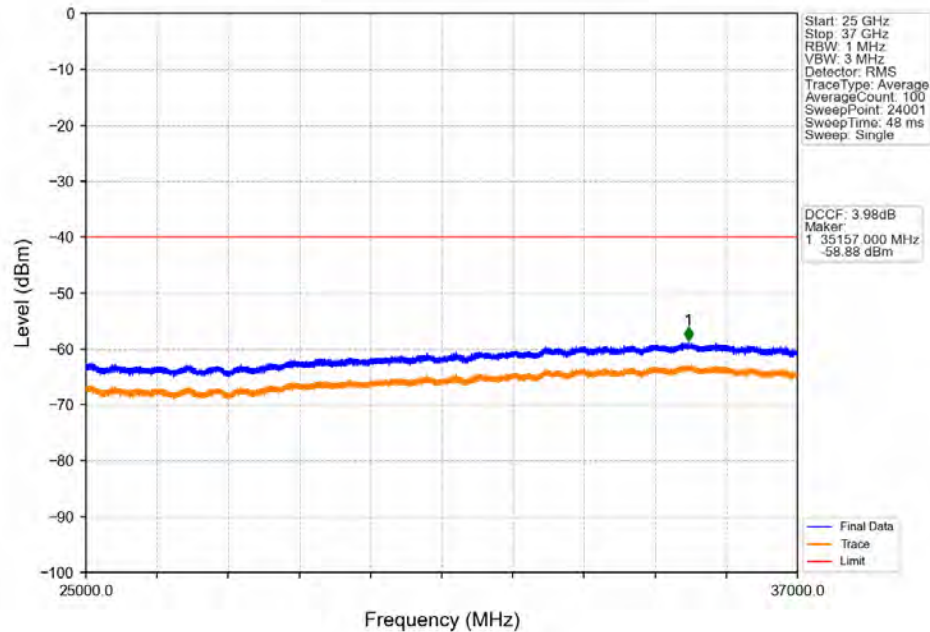
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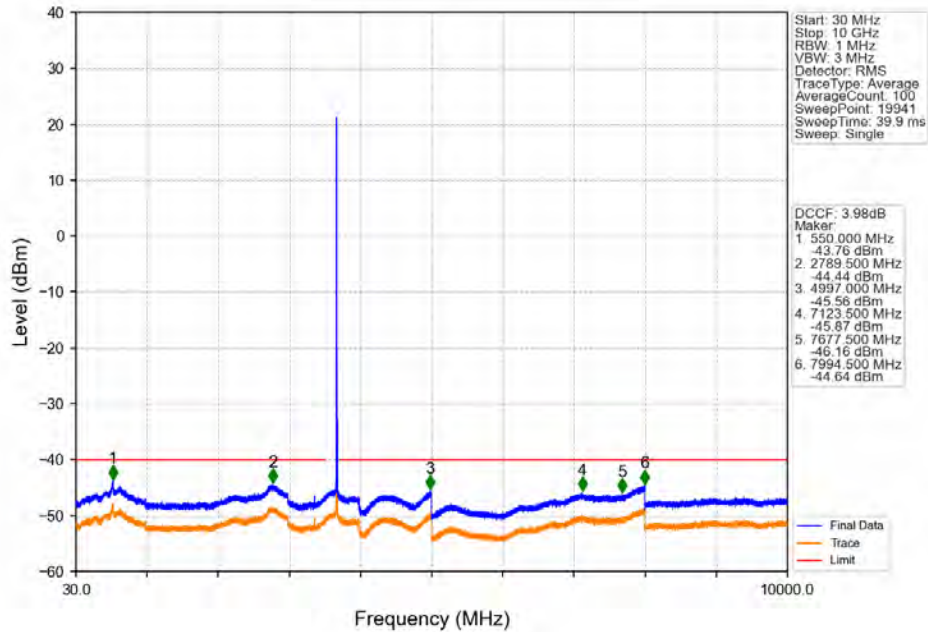
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



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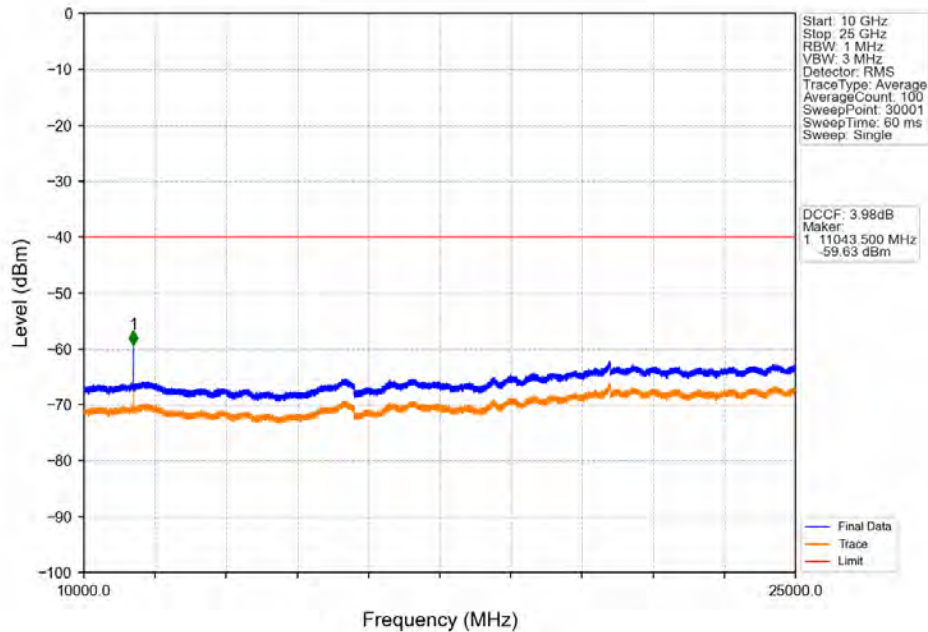
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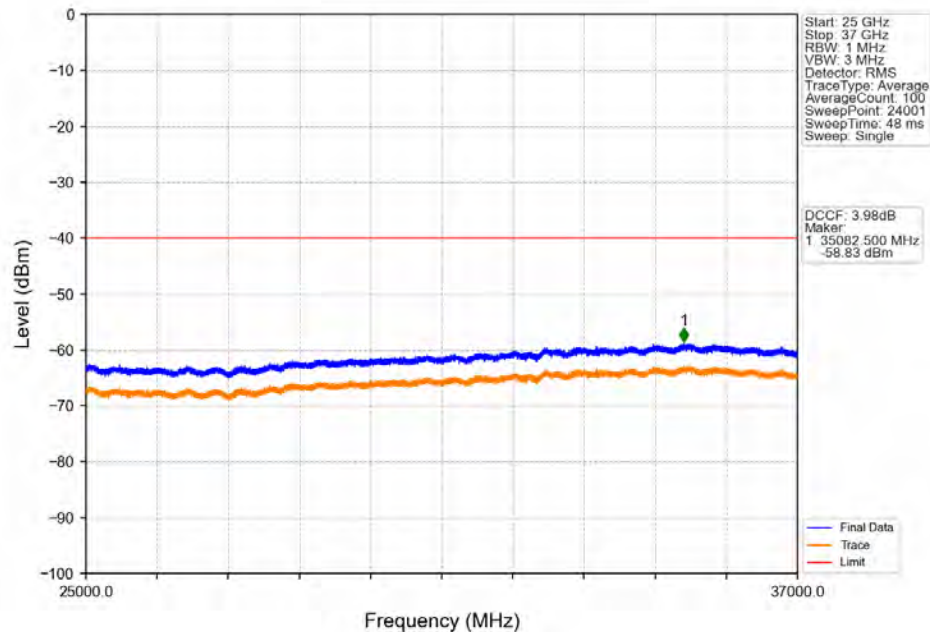
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Band48_20MHz_QPSK_HCH_3690MHz_RB_1_99_NTNV



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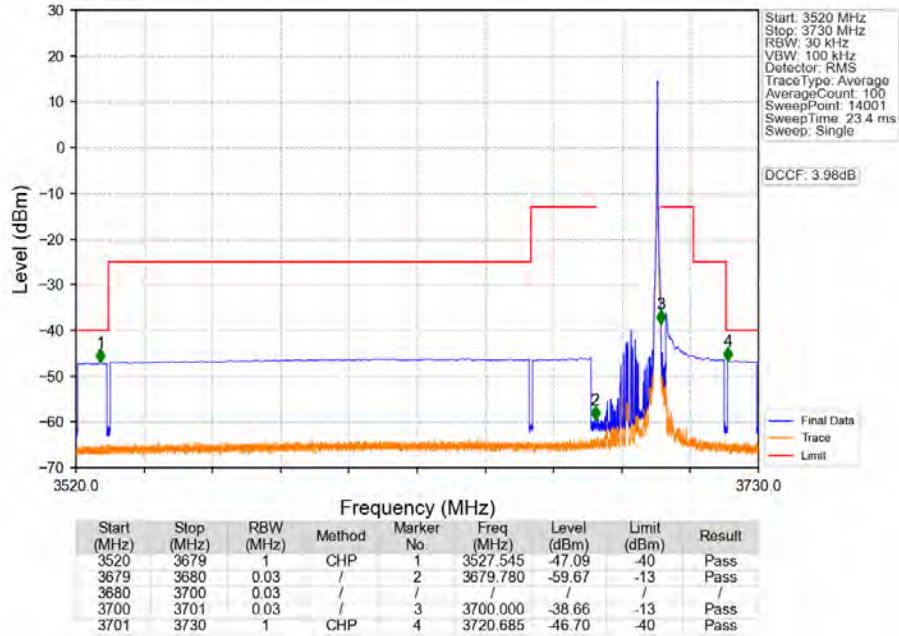
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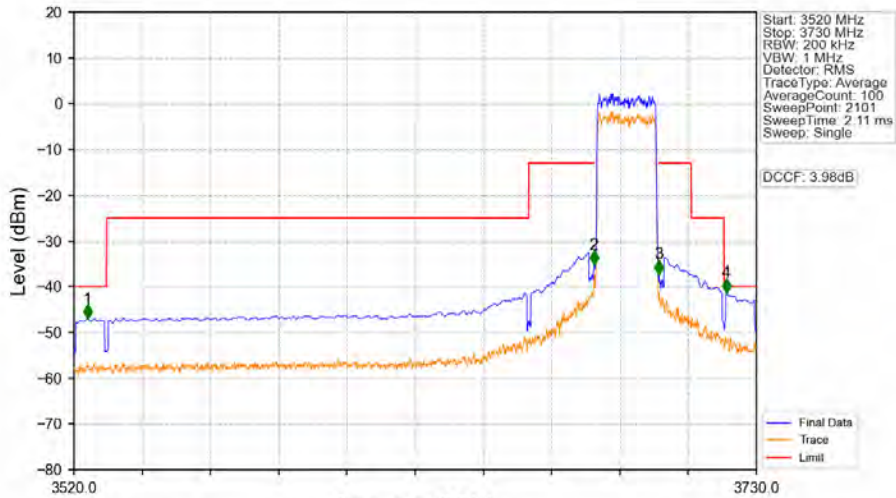
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Band48 20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3679	1	CHP	1	3524.200	-47.00	-40	Pass
3679	3680	0.2	/	2	3680.000	-35.26	-13	Pass
3680	3700	0.2	/	3	3700.000	-37.23	-13	Pass
3700	3701	0.2	/	4	3701.000	-41.29	-40	Pass



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6. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = LTE_B48

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1114	32.87	-19.39	25.83	-55.95	-40.00	15.95	Horizontal
2	4671	21.07	-13.69	31.92	-55.96	-40.00	15.96	Horizontal
3	6843	51.01	-43.64	36.13	-51.76	-40.00	11.76	Horizontal
4	8906	50.18	-40.96	38.32	-47.72	-40.00	7.72	Horizontal
5	11403.5	48.24	-37.05	39.69	-44.38	-40.00	4.38	Horizontal
6	16501	48.01	-35.46	38.40	-44.31	-40.00	4.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5061	21.83	-12.35	33.42	-52.36	-40.00	12.36	Vertical
2	7101	51.33	-43.46	36.90	-50.49	-40.00	10.49	Vertical
3	9647	48.36	-38.77	38.82	-46.85	-40.00	6.85	Vertical
4	10651.5	50.82	-38.48	39.40	-43.52	-40.00	3.52	Vertical
5	12412	47.51	-36.48	39.59	-44.64	-40.00	4.64	Vertical
6	16156	47.69	-35.11	38.16	-44.52	-40.00	4.52	Vertical



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Test Band = LTE_B48
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4372	21.46	-14.11	32.03	-55.88	-40.00	15.88	Horizontal
2	5693	21.68	-12.45	33.47	-52.56	-40.00	12.56	Horizontal
3	7890	50.28	-41.89	37.34	-49.53	-40.00	9.53	Horizontal
4	9521.5	49.80	-39.42	39.16	-45.72	-40.00	5.72	Horizontal
5	11439.5	48.19	-37.00	39.62	-44.45	-40.00	4.45	Horizontal
6	16077.5	47.47	-34.78	38.12	-44.45	-40.00	4.45	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4374	21.51	-14.12	32.04	-55.83	-40.00	15.83	Vertical
2	5960	21.07	-13.18	34.42	-52.95	-40.00	12.95	Vertical
3	8543.5	49.53	-40.84	38.94	-47.63	-40.00	7.63	Vertical
4	9524	49.64	-39.44	39.15	-45.91	-40.00	5.91	Vertical
5	11216.5	48.57	-37.68	39.68	-44.69	-40.00	4.69	Vertical
6	16157.5	47.39	-35.11	38.16	-44.82	-40.00	4.82	Vertical



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Test Band = LTE_B48
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4366	21.35	-14.09	32.00	-56.00	-40.00	16.00	Horizontal
2	5714	21.51	-12.64	33.61	-52.78	-40.00	12.78	Horizontal
3	8546.5	49.39	-40.80	39.02	-47.65	-40.00	7.65	Horizontal
4	9504	49.35	-39.22	39.19	-45.94	-40.00	5.94	Horizontal
5	11605.5	46.97	-37.16	39.69	-45.76	-40.00	5.76	Horizontal
6	17228.5	46.78	-34.34	38.17	-44.65	-40.00	4.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4372.5	21.77	-14.12	32.04	-55.57	-40.00	15.57	Vertical
2	5898	21.61	-13.00	34.29	-52.36	-40.00	12.36	Vertical
3	7381.5	51.42	-42.63	36.84	-49.63	-40.00	9.63	Vertical
4	9526.5	50.48	-39.47	39.15	-45.10	-40.00	5.10	Vertical
5	11399	48.10	-37.06	39.70	-44.52	-40.00	4.52	Vertical
6	16144.5	47.32	-35.05	38.14	-44.85	-40.00	4.85	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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For report SUCR240400008901:

Test Band = LTE_48_TM1
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7056.5	44.19	-39.23	36.16	-54.14	-40.00	14.14	Horizontal
2	8850.5	42.16	-36.35	36.80	-52.65	-40.00	12.65	Horizontal
3	11018	42.16	-35.11	40.12	-48.09	-40.00	8.09	Horizontal
4	14197.5	40.80	-31.72	41.90	-44.28	-40.00	4.28	Horizontal
5	16433	40.16	-28.41	38.97	-44.54	-40.00	4.54	Horizontal
6	17959.5	40.59	-39.74	47.47	-46.94	-40.00	6.94	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.5	46.38	-39.28	35.93	-52.23	-40.00	12.23	Vertical
2	8740.5	42.00	-36.43	36.76	-52.93	-40.00	12.93	Vertical
3	11394.5	42.78	-35.22	40.29	-47.41	-40.00	7.41	Vertical
4	14224.5	41.46	-32.13	41.83	-44.10	-40.00	4.10	Vertical
5	16419.5	40.37	-28.58	38.90	-44.57	-40.00	4.57	Vertical
6	17997	40.02	-39.77	48.15	-46.86	-40.00	6.86	Vertical



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Test Band = LTE_48_TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7413	43.27	-38.45	36.73	-53.71	-40.00	13.71	Horizontal
2	9490.5	42.11	-35.51	37.74	-50.92	-40.00	10.92	Horizontal
3	11524	42.99	-35.43	40.22	-47.48	-40.00	7.48	Horizontal
4	14224	41.24	-32.12	41.83	-44.31	-40.00	4.31	Horizontal
5	16437.5	40.13	-28.36	38.99	-44.50	-40.00	4.50	Horizontal
6	17956	40.64	-39.73	47.41	-46.94	-40.00	6.94	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232	45.84	-38.82	36.41	-51.83	-40.00	11.83	Vertical
2	8730.5	42.28	-36.51	36.72	-52.77	-40.00	12.77	Vertical
3	10405	42.50	-35.39	39.19	-48.96	-40.00	8.96	Vertical
4	12317.5	43.32	-34.84	39.31	-47.47	-40.00	7.47	Vertical
5	16499.5	40.61	-29.40	39.30	-44.75	-40.00	4.75	Vertical
6	17973.5	40.08	-39.75	47.72	-47.21	-40.00	7.21	Vertical



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Test Band = LTE_48_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7412.5	43.21	-38.45	36.73	-53.77	-40.00	13.77	Horizontal
2	9887	41.70	-35.67	38.50	-50.73	-40.00	10.73	Horizontal
3	11518.5	43.01	-35.42	40.22	-47.45	-40.00	7.45	Horizontal
4	14201.5	41.46	-31.69	41.90	-43.59	-40.00	3.59	Horizontal
5	16454	39.93	-28.31	39.07	-44.57	-40.00	4.57	Horizontal
6	17978	39.95	-39.75	47.80	-47.26	-40.00	7.26	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362	44.98	-38.63	36.55	-52.36	-40.00	12.36	Vertical
2	8538	42.50	-36.84	36.58	-53.02	-40.00	13.02	Vertical
3	10617	42.62	-35.42	39.33	-48.73	-40.00	8.73	Vertical
4	13294	42.44	-33.12	39.88	-46.06	-40.00	6.06	Vertical
5	16435.5	39.87	-28.38	38.98	-44.79	-40.00	4.79	Vertical
6	17967.5	40.30	-39.74	47.62	-47.08	-40.00	7.08	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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7. Adjacent Channel Leakage Ratio

7.1 B48_5MHz

7.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio	
		Size	Offset	Result	Limit
QPSK	3552.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	3625	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	3697.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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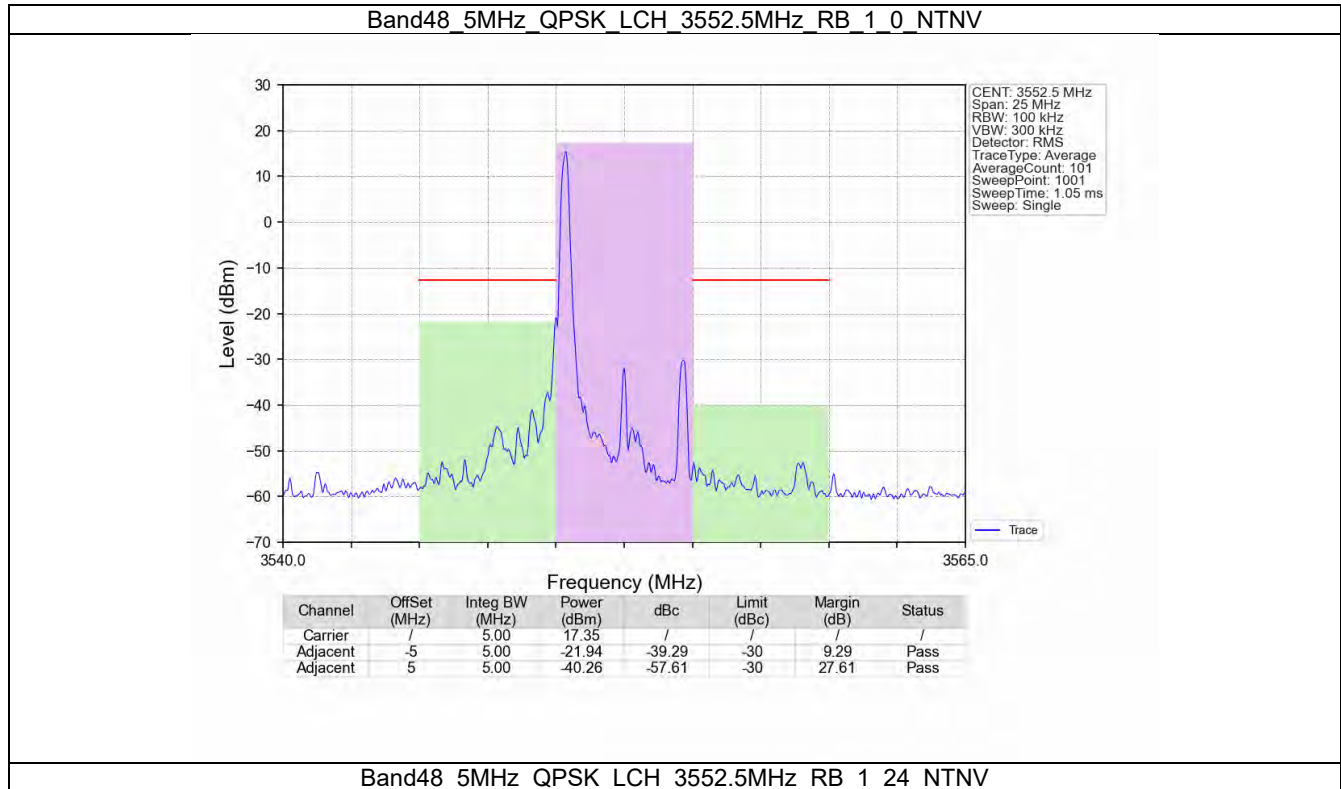
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7.1.2 Test Graph



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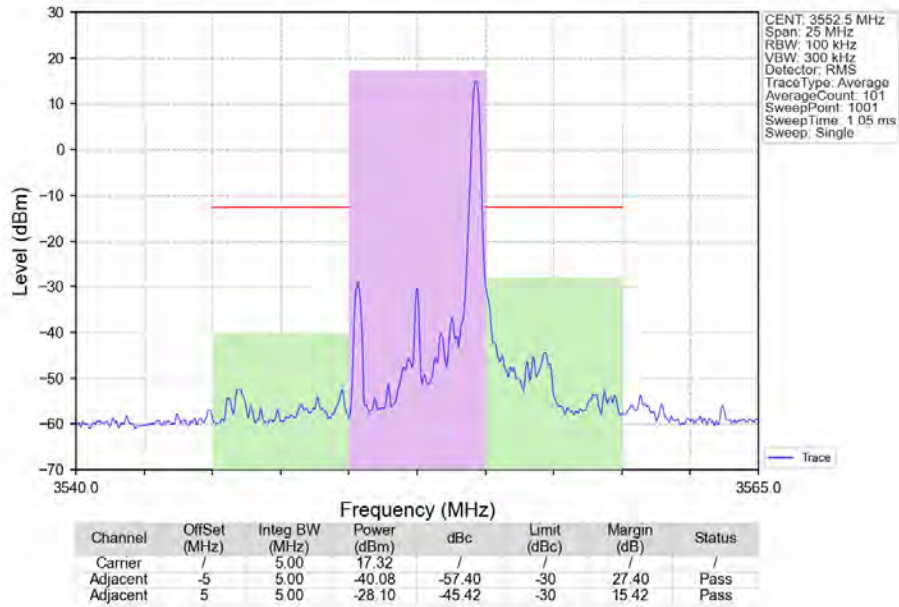
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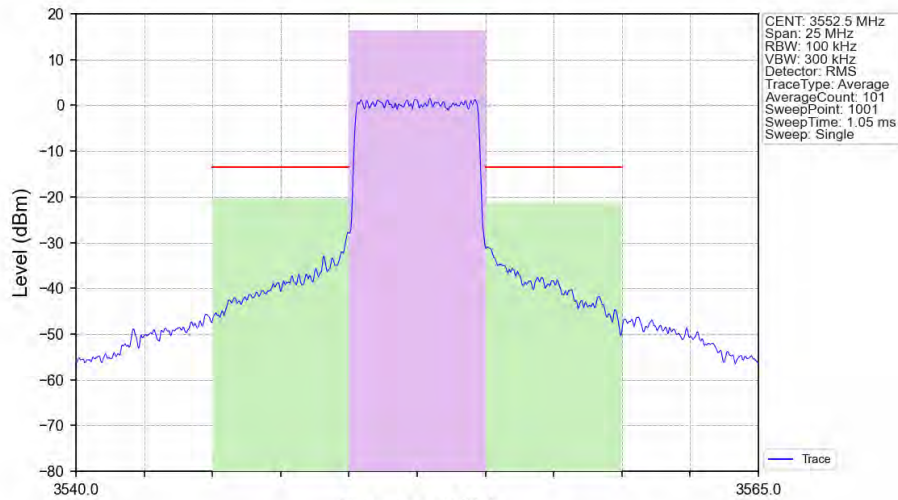
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_25_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.54	/	/	/	/
Adjacent	-5	5.00	-20.42	-36.96	-30	6.96	Pass
Adjacent	5	5.00	-21.32	-37.86	-30	7.86	Pass

Band48_5MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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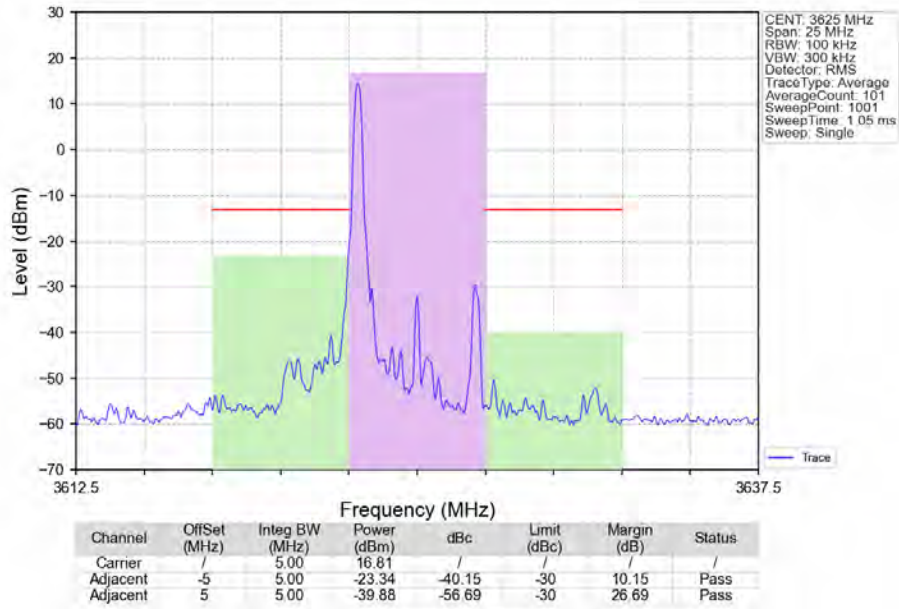
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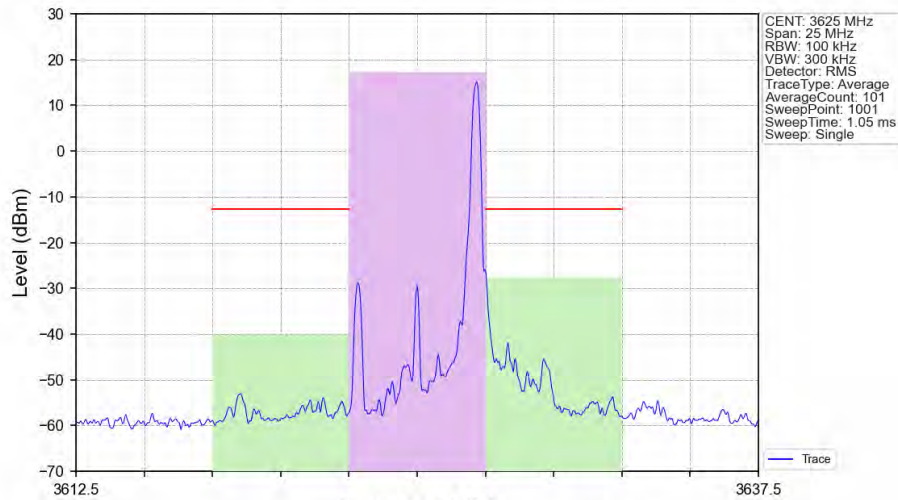
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Band48_5MHz_QPSK_MCH_3625MHz_RB_1_24_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	17.31	/	/	/	/
Adjacent	-5	5.00	-40.21	-57.52	-30	27.52	Pass
Adjacent	5	5.00	-27.65	-44.96	-30	14.96	Pass

Band48_5MHz_QPSK_MCH_3625MHz_RB_25_0_NTNV



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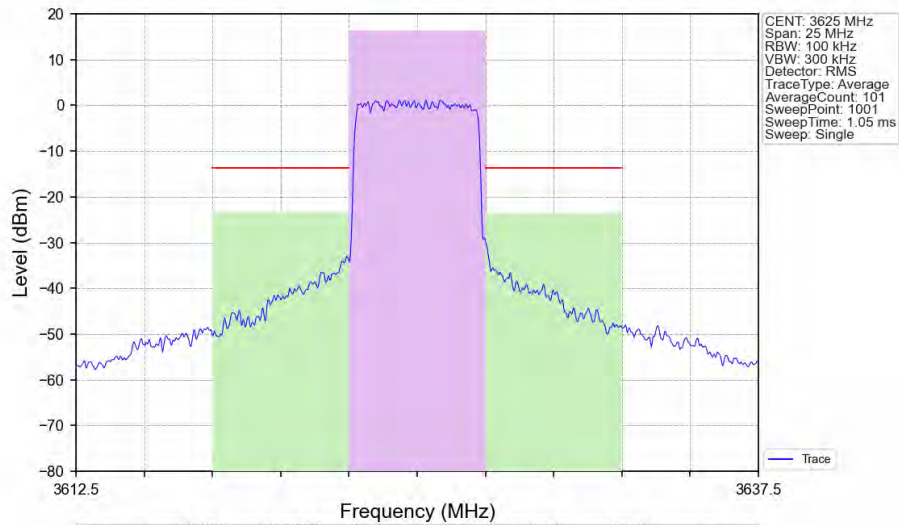
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.27	/	/	/	/
Adjacent	-5	5.00	-23.44	-39.71	-30	9.71	Pass
Adjacent	5	5.00	-23.48	-39.75	-30	9.75	Pass



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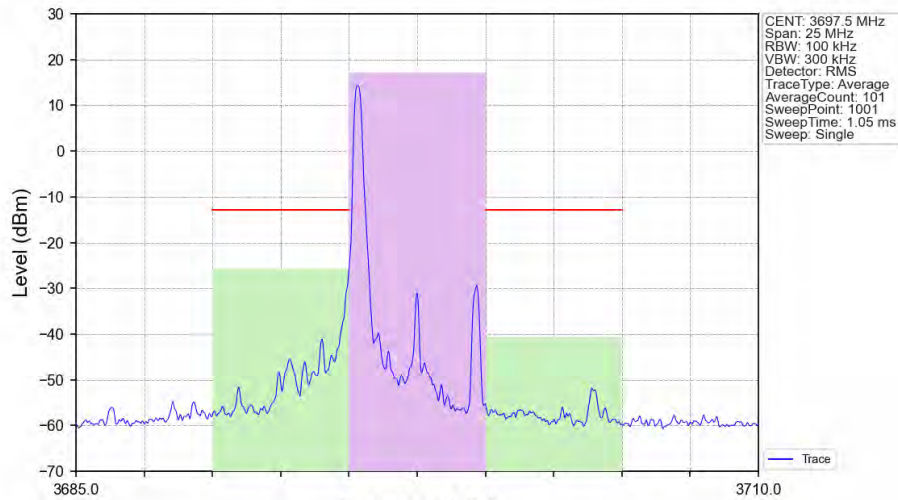
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	17.13	/	/	/	/
Adjacent	-5	5.00	-25.78	-42.91	-30	12.91	Pass
Adjacent	5	5.00	-40.67	-57.80	-30	27.80	Pass

Band48_5MHz_QPSK_HCH_3697.5MHz_RB_1_24_NTNV



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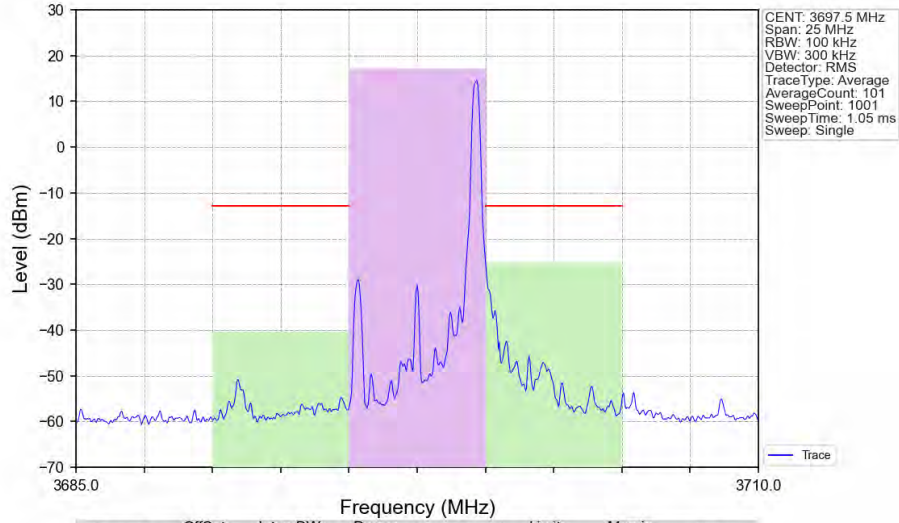
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Carrier	/	5.00	17.08	/	/	/	/
Adjacent	-5	5.00	-40.31	-57.39	-30	27.39	Pass
Adjacent	5	5.00	-25.22	-42.30	-30	12.30	Pass



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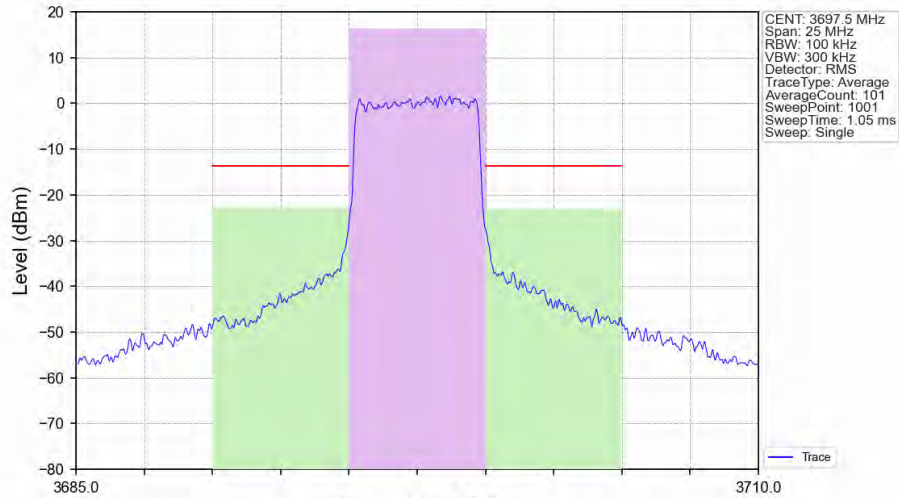
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.30	/	/	/	/
Adjacent	-5	5.00	-22.60	-38.90	-30	8.90	Pass
Adjacent	5	5.00	-23.08	-39.38	-30	9.38	Pass



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7.2 B48_10MHz

7.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	3695	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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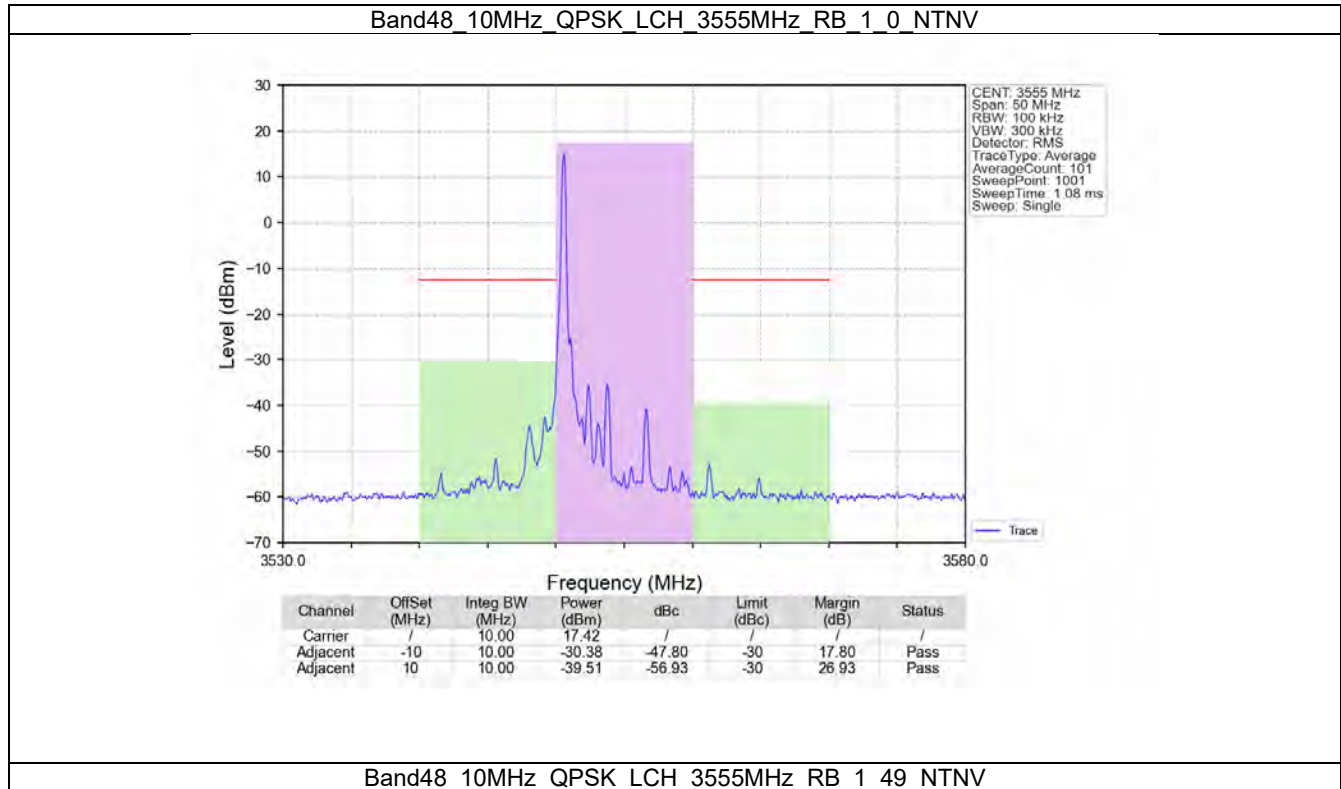
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7.2.2 Test Graph



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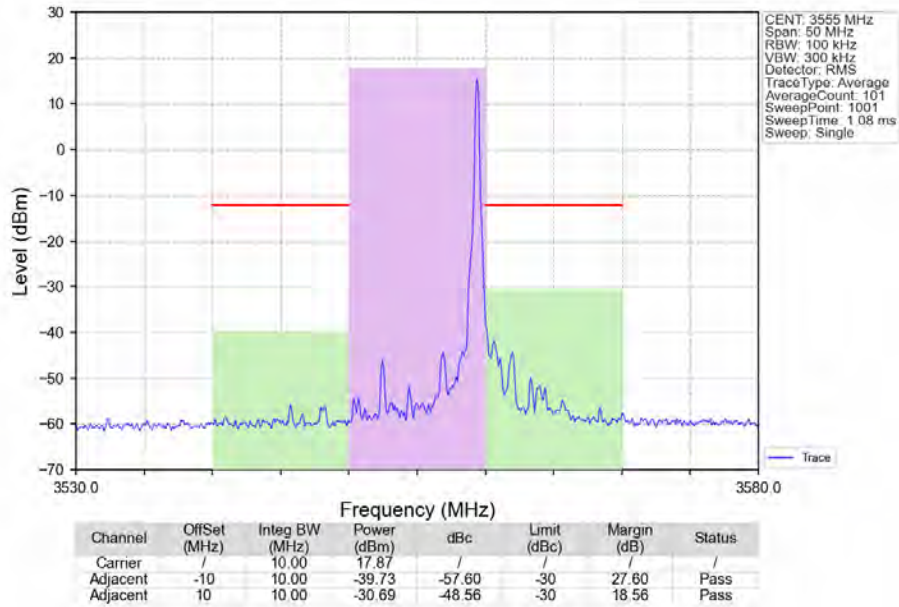
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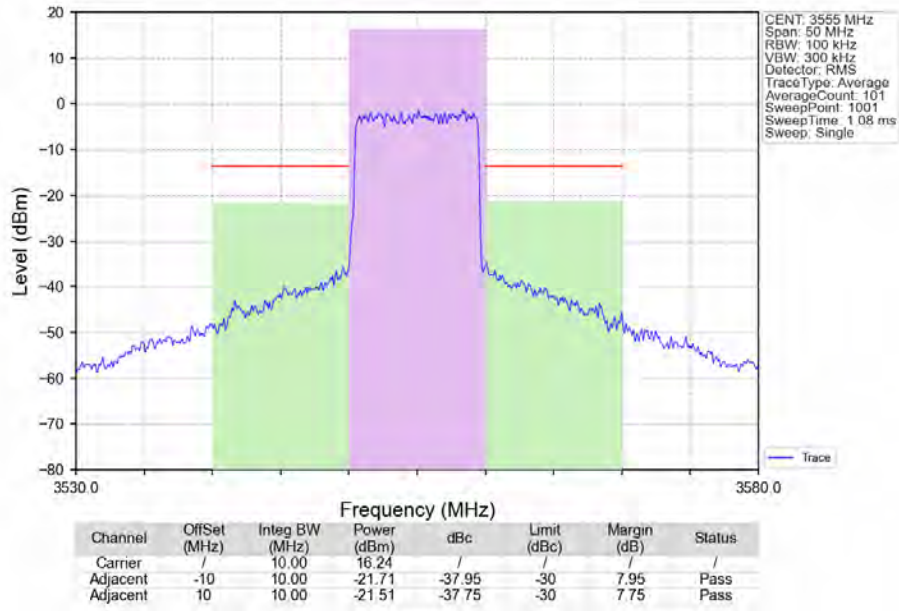
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Band48_10MHz_QPSK_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_QPSK_MCH_3625MHz_RB_1_0_NTNV



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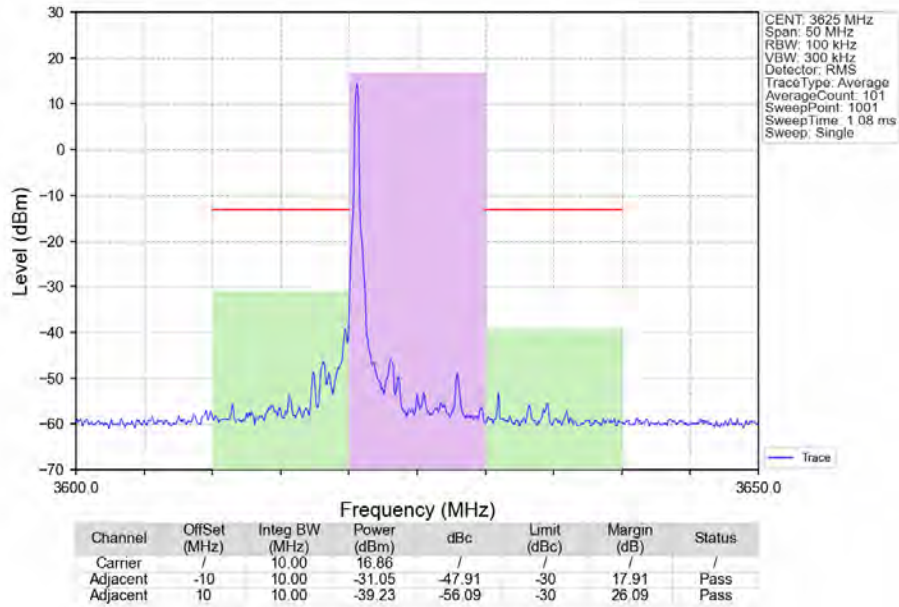
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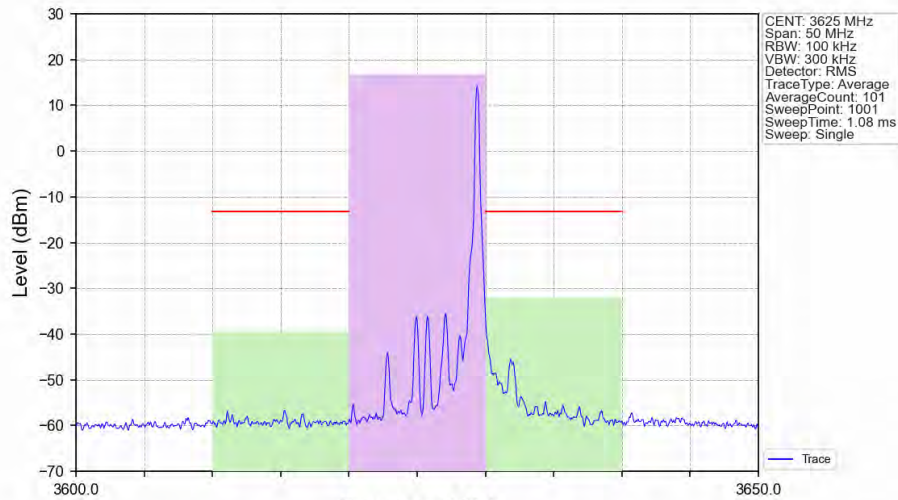
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Band48_10MHz_QPSK_MCH_3625MHz_RB_1_49_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.80	/	/	/	/
Adjacent	-10	10.00	-39.51	-56.31	-30	26.31	Pass
Adjacent	10	10.00	-32.11	-48.91	-30	18.91	Pass

Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



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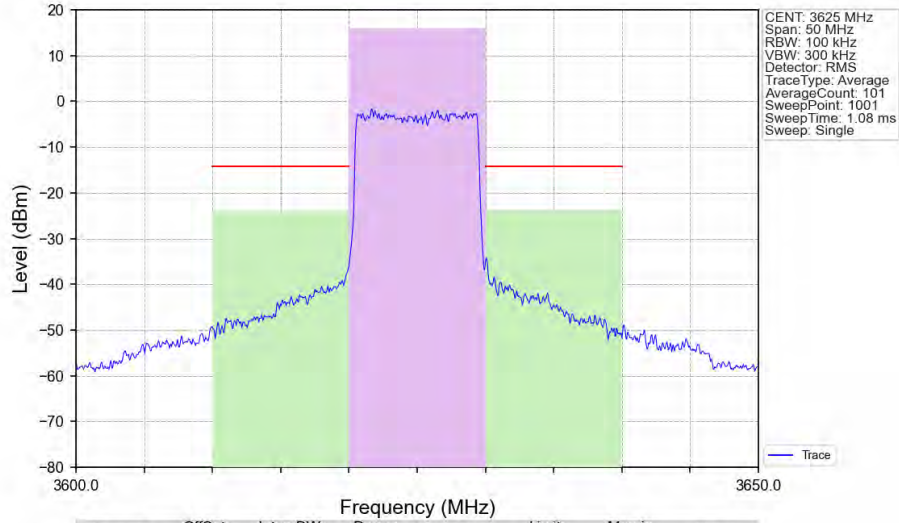
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.87	/	/	/	/
Adjacent	-10	10.00	-23.85	-39.72	-30	9.72	Pass
Adjacent	10	10.00	-23.66	-39.53	-30	9.53	Pass



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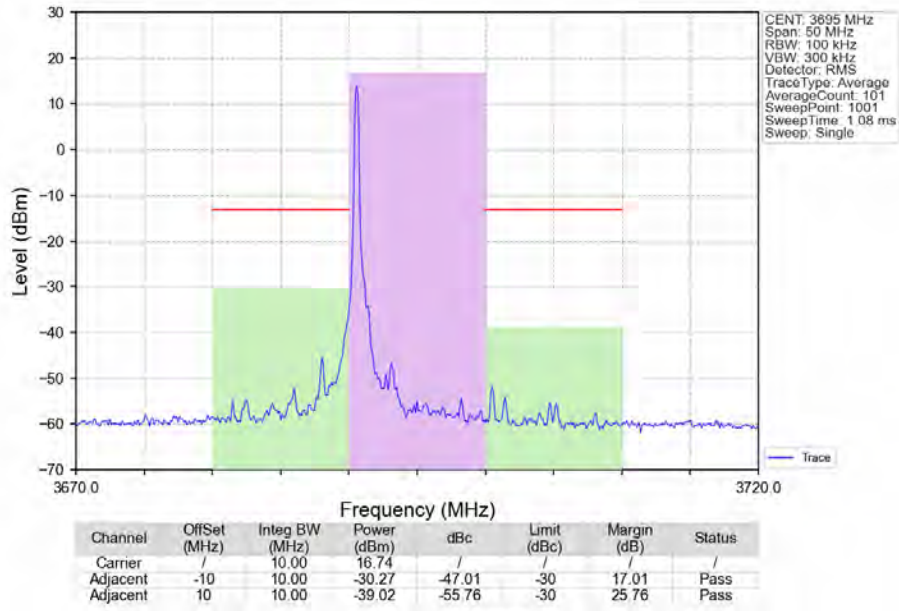
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Band48_10MHz_QPSK_HCH_3695MHz_RB_1_0_NTNV



Band48_10MHz_QPSK_HCH_3695MHz_RB_1_49_NTNV



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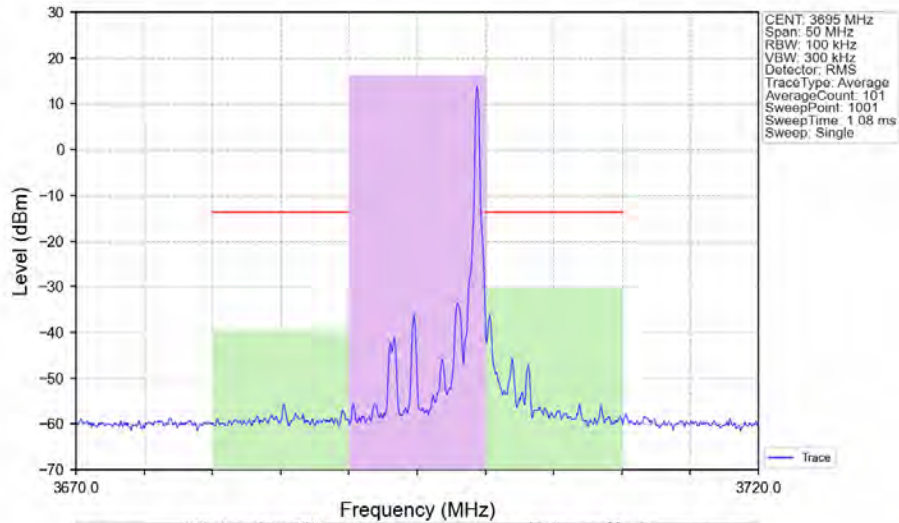
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Carrier	/	10.00	16.24	/	/	/	/
Adjacent	-10	10.00	-39.45	-55.69	-30	25.69	Pass
Adjacent	10	10.00	-30.17	-46.41	-30	16.41	Pass



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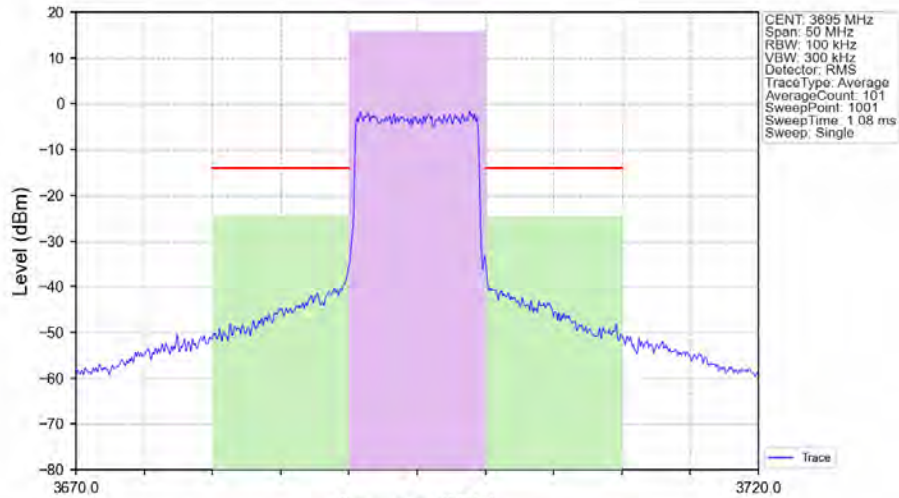
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Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.94	/	/	/	/
Adjacent	-10	10.00	-24.47	-40.41	-30	10.41	Pass
Adjacent	10	10.00	-24.69	-40.63	-30	10.63	Pass



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7.3 B48_15MHz

7.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	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



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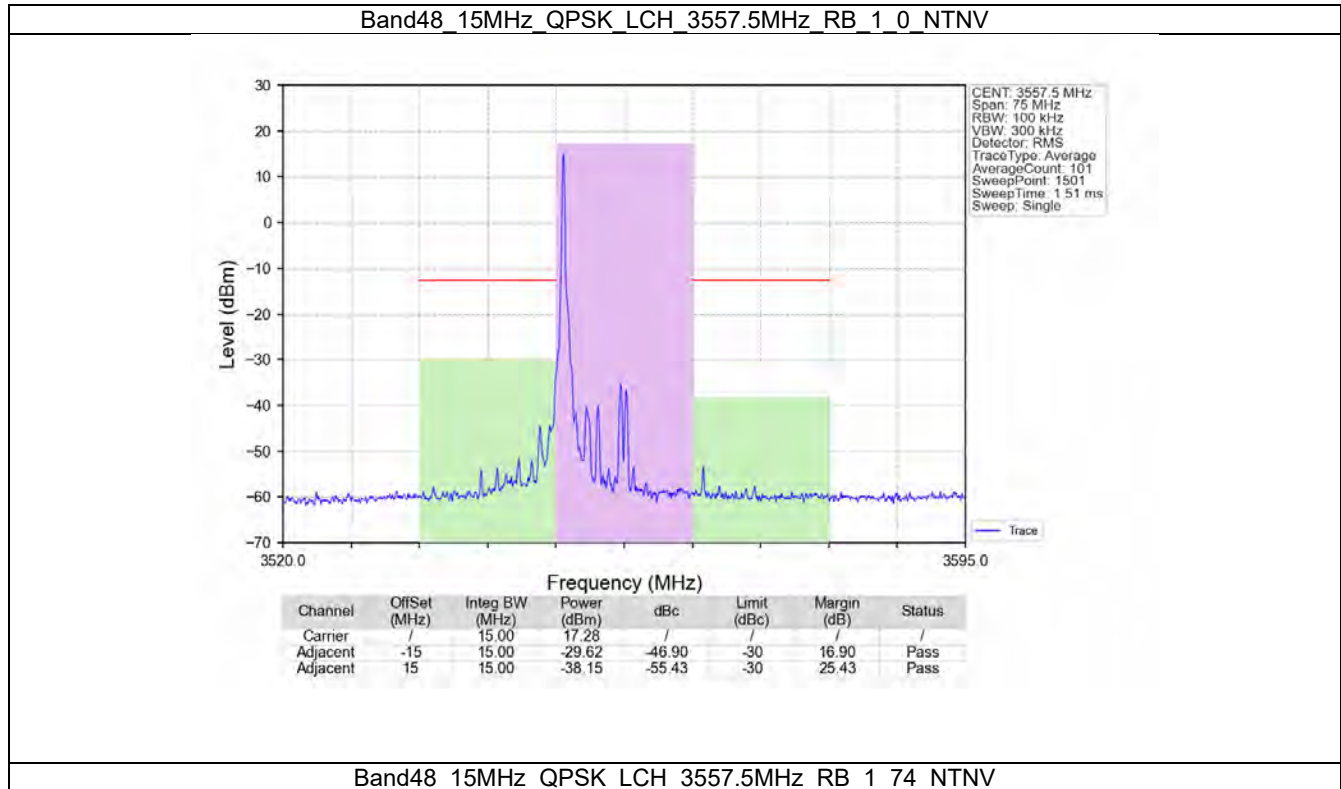
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7.3.2 Test Graph



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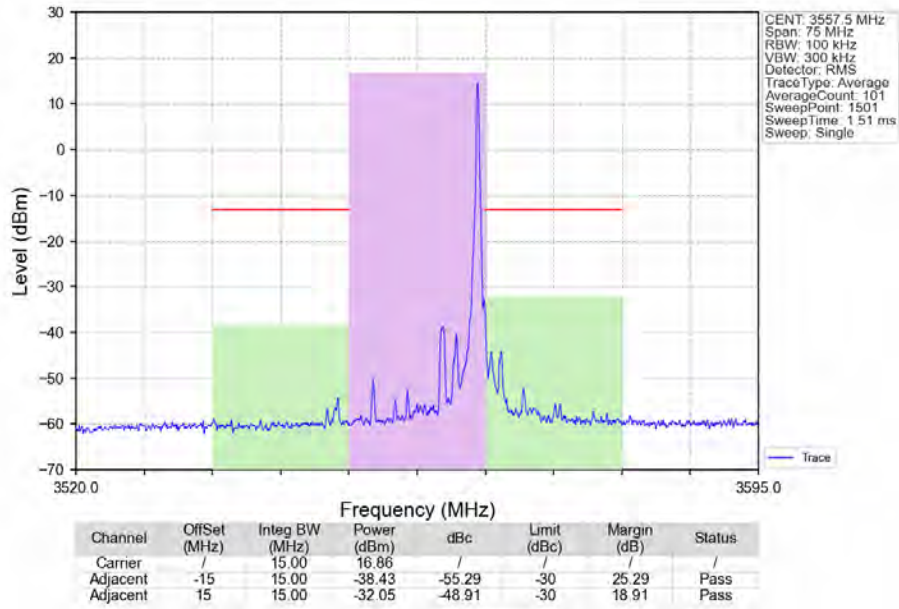
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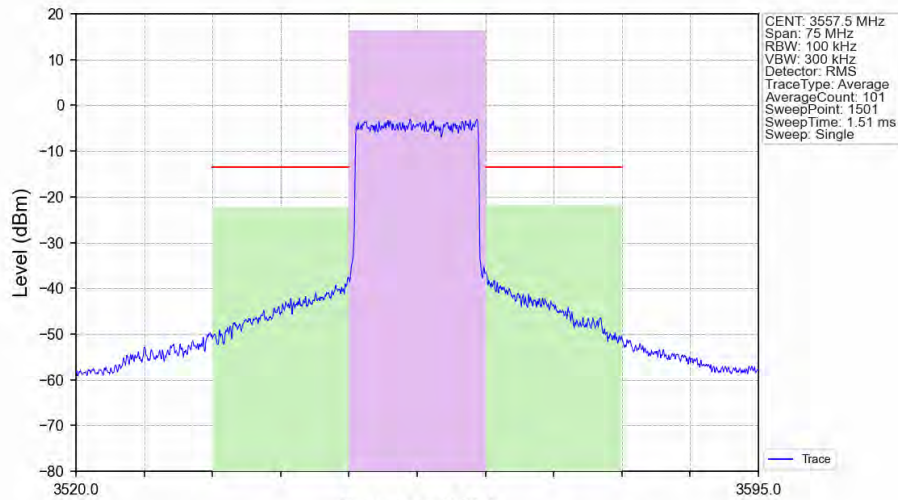
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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.46	/	/	/	/
Adjacent	-15	15.00	-22.34	-38.80	-30	8.80	Pass
Adjacent	15	15.00	-21.83	-38.29	-30	8.29	Pass

Band48 15MHz QPSK MCH 3625MHz RB 1 0 NTNV



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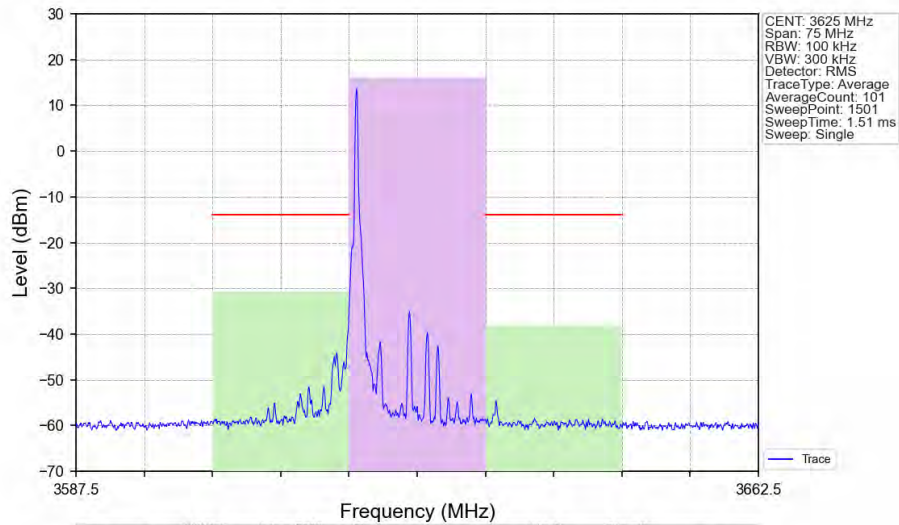
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Carrier	/	15.00	16.15	/	/	/	/
Adjacent	-15	15.00	-30.66	-46.81	-30	16.81	Pass
Adjacent	15	15.00	-38.02	-54.17	-30	24.17	Pass



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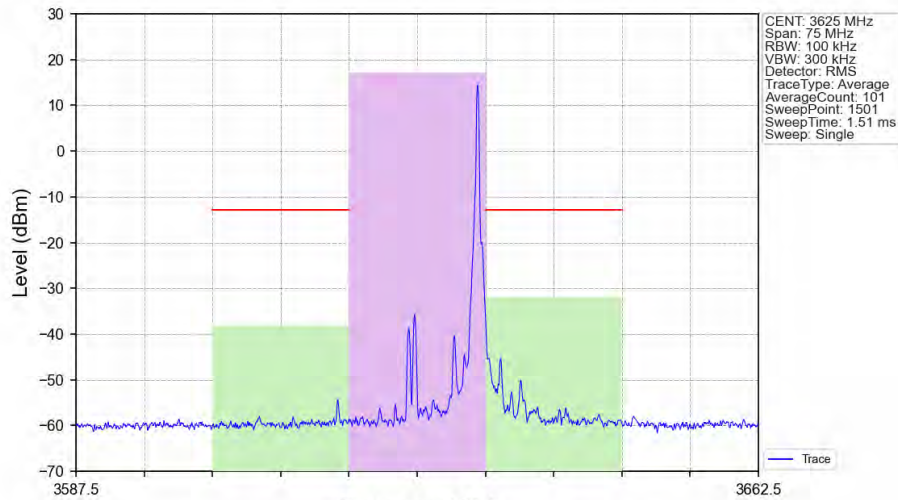
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Band48_15MHz_QPSK_MCH_3625MHz_RB_1_74_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	17.20	/	/	/	/
Adjacent	-15	15.00	-38.04	-55.24	-30	25.24	Pass
Adjacent	15	15.00	-31.84	-49.04	-30	19.04	Pass

Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



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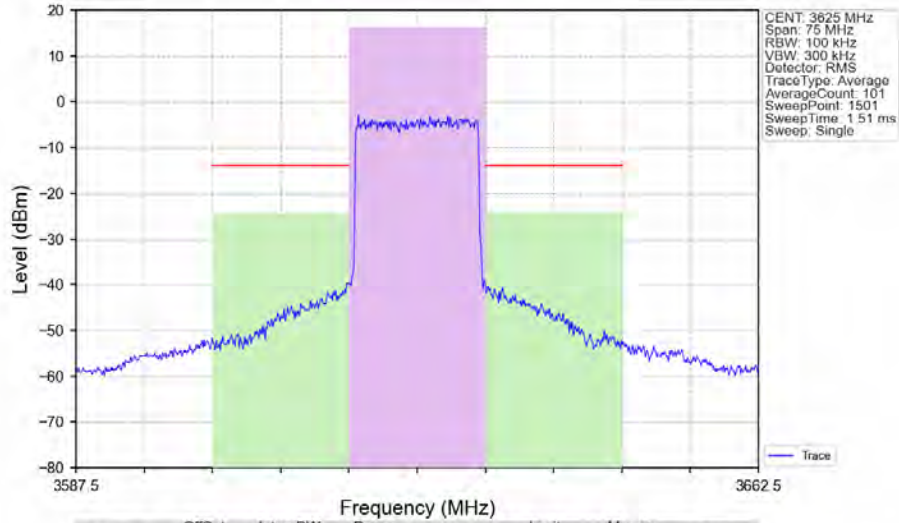
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.22	/	/	/	/
Adjacent	-15	15.00	-24.46	-40.68	-30	10.68	Pass
Adjacent	15	15.00	-24.22	-40.44	-30	10.44	Pass



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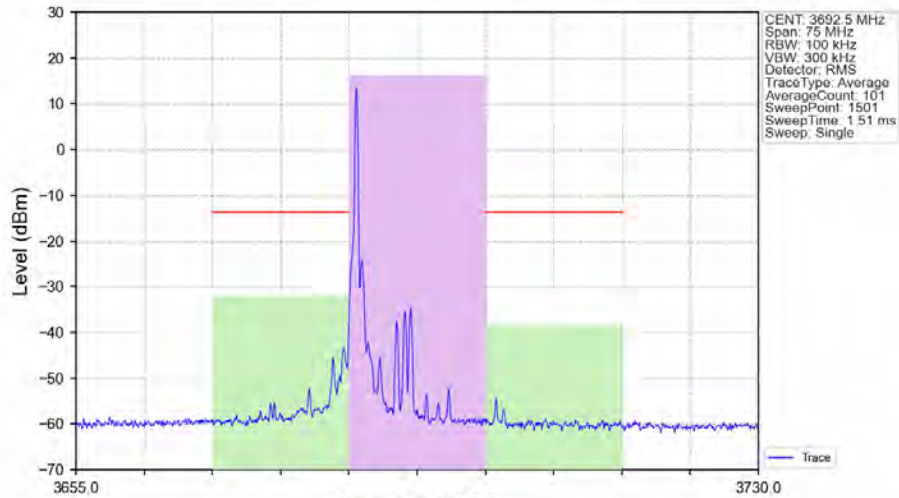
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.22	/	/	/	/
Adjacent	-15	15.00	-31.85	-48.07	-30	18.07	Pass
Adjacent	15	15.00	-38.41	-54.63	-30	24.63	Pass

Band48_15MHz_QPSK_HCH_3692.5MHz_RB_1_74_NTNV



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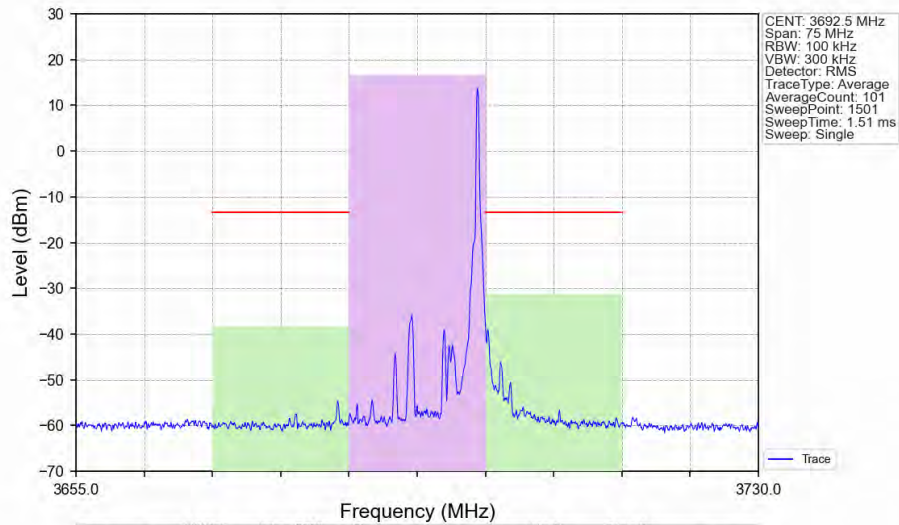
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.55	/	/	/	/
Adjacent	-15	15.00	-38.25	-54.80	-30	24.80	Pass
Adjacent	15	15.00	-31.22	-47.77	-30	17.77	Pass



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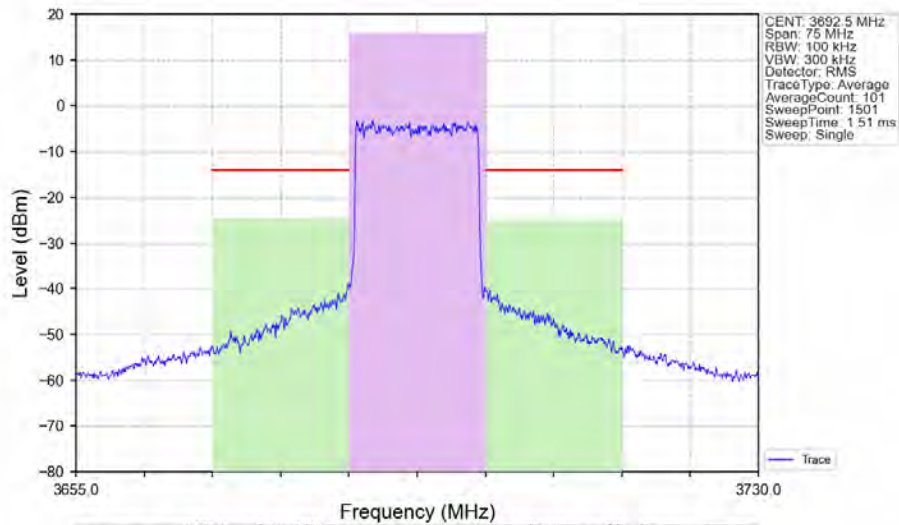
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.03	/	/	/	/
Adjacent	-15	15.00	-24.62	-40.65	-30	10.65	Pass
Adjacent	15	15.00	-25.03	-41.06	-30	11.06	Pass



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7.4 B48_20MHz

7.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Adjacent Channel Leakage Ratio		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	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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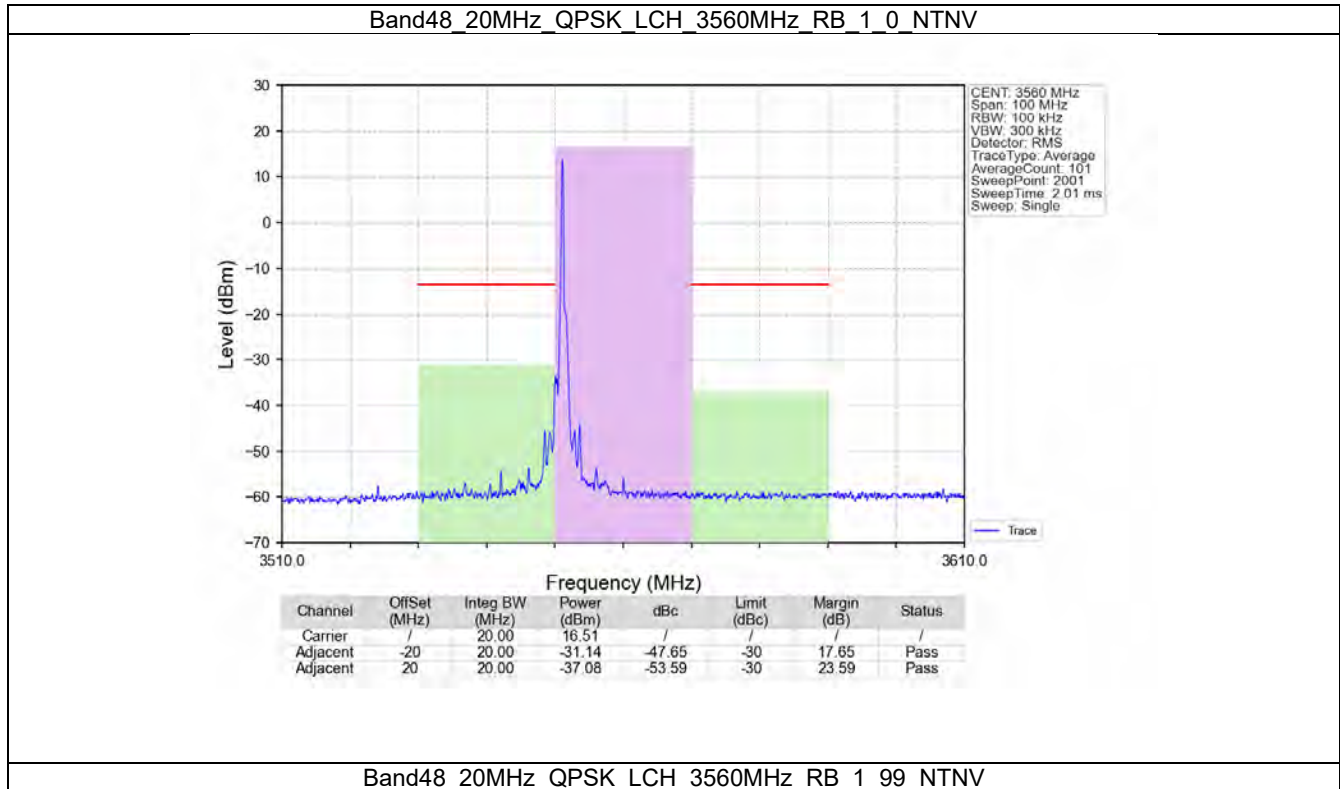
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7.4.2 Test Graph



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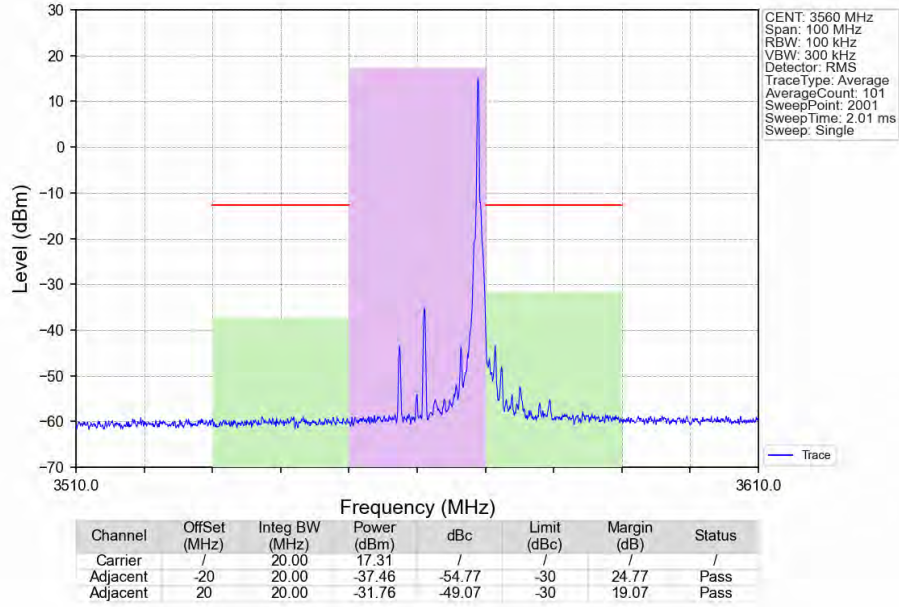
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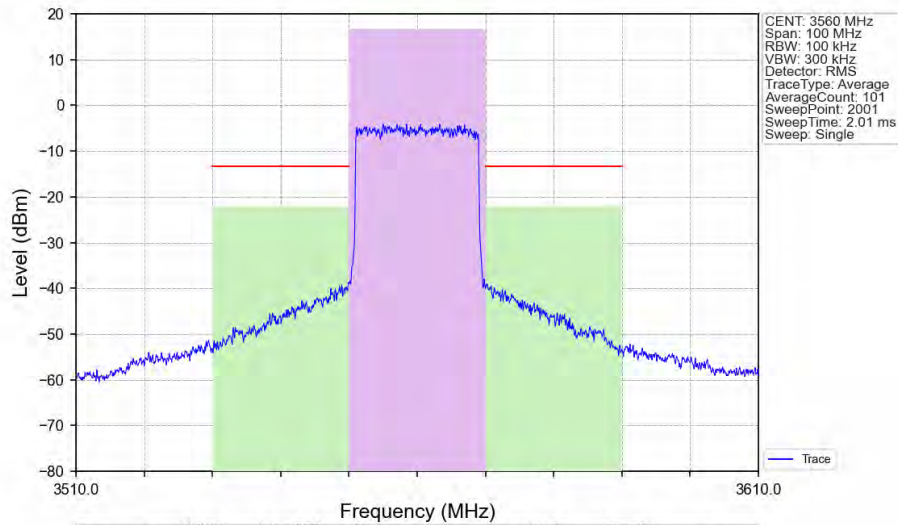
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.72	/	/	/	/
Adjacent	-20	20.00	-22.14	-38.86	-30	8.86	Pass
Adjacent	20	20.00	-22.12	-38.84	-30	8.84	Pass

Band48 20MHz QPSK MCH 3625MHz RB 1 0 NTNV



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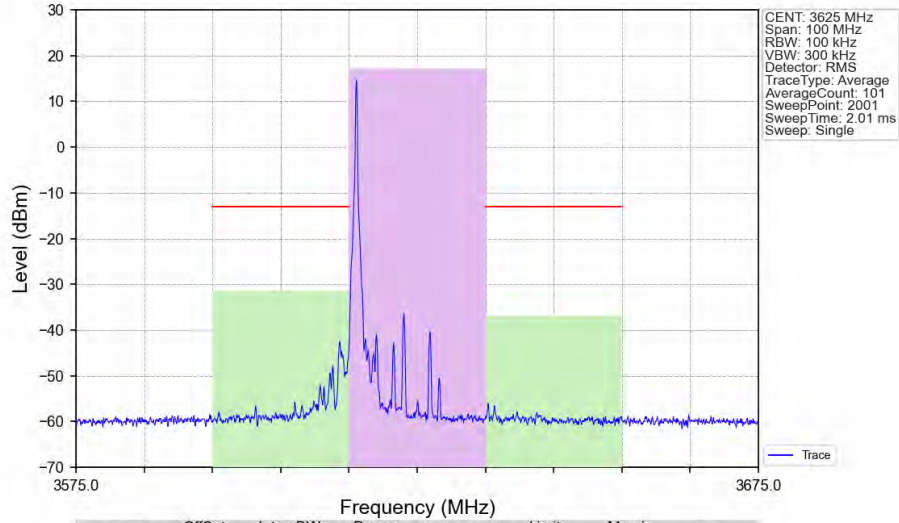
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.04	/	/	/	/
Adjacent	-20	20.00	-31.45	-48.49	-30	18.49	Pass
Adjacent	20	20.00	-36.80	-53.84	-30	23.84	Pass



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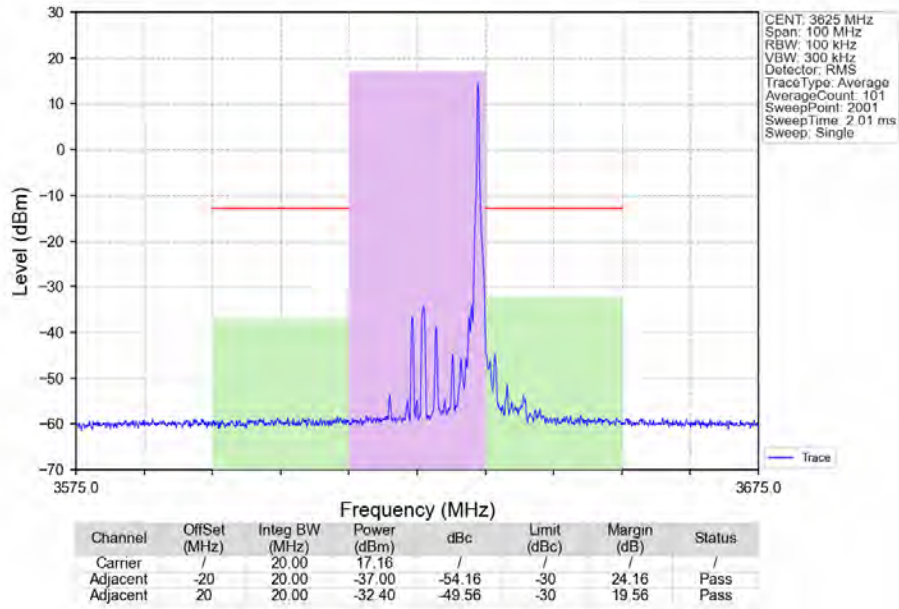
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Band48_20MHz_QPSK_MCH_3625MHz_RB_1_99_NTNV



Band48_20MHz_QPSK_MCH_3625MHz_RB_100_0_NTNV



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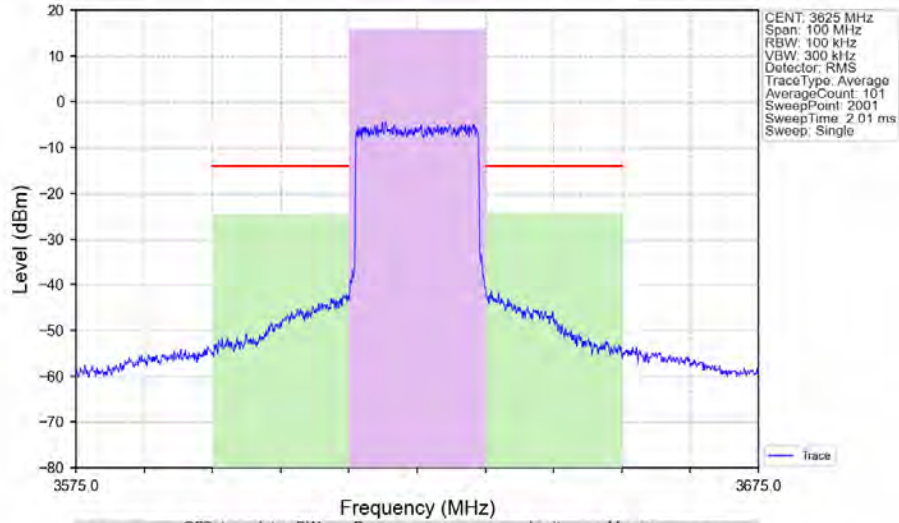
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Carrier	/	20.00	15.97	/	/	/	/
Adjacent	-20	20.00	-24.63	-40.60	-30	10.60	Pass
Adjacent	20	20.00	-24.41	-40.38	-30	10.38	Pass



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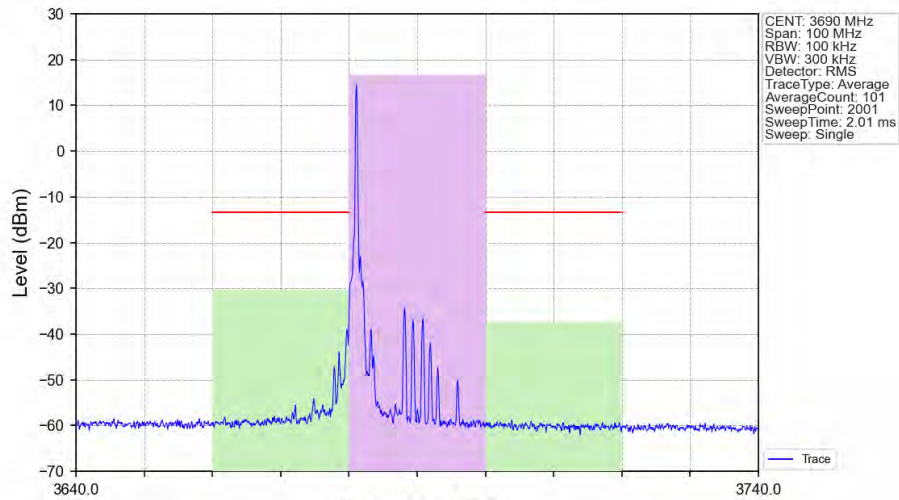
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Band48_20MHz_QPSK_HCH_3690MHz_RB_1_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.63	/	/	/	/
Adjacent	-20	20.00	-30.34	-46.97	-30	16.97	Pass
Adjacent	20	20.00	-37.43	-54.06	-30	24.06	Pass

Band48_20MHz_QPSK_HCH_3690MHz_RB_1_99_NTNV



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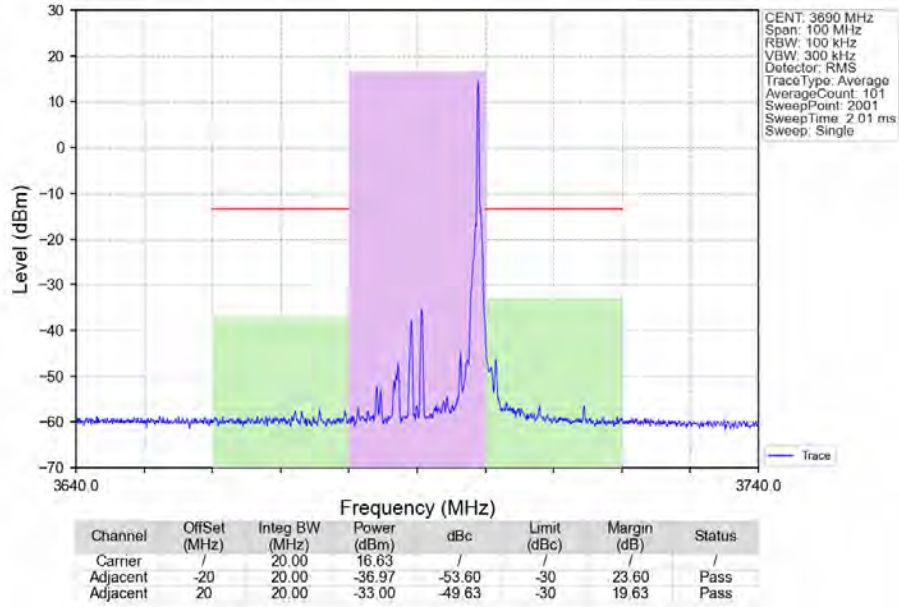
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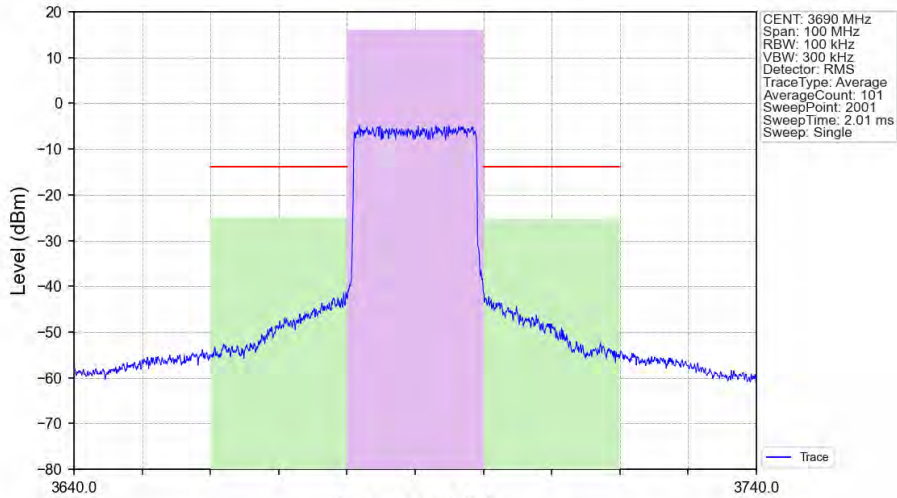
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Band48 20MHz_QPSK_HCH_3690MHz_RB_100_0_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	16.05	/	/	/	/
Adjacent	-20	20.00	-24.98	-41.03	-30	11.03	Pass
Adjacent	20	20.00	-25.38	-41.43	-30	11.43	Pass

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