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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	23.41	17.31	23	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.47	17.37	23	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.35	17.25	23	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.39	16.29	23	PASS
Band48	5MHz	QPSK	55990	1RB#0	22.84	16.74	23	PASS
Band48	5MHz	QPSK	55990	1RB#12	22.93	16.83	23	PASS
Band48	5MHz	QPSK	55990	1RB#24	22.88	16.78	23	PASS
Band48	5MHz	QPSK	55990	25RB#0	21.91	15.81	23	PASS
Band48	5MHz	QPSK	56715	1RB#0	23.11	17.01	23	PASS
Band48	5MHz	QPSK	56715	1RB#12	23.18	17.08	23	PASS
Band48	5MHz	QPSK	56715	1RB#24	23.12	17.02	23	PASS
Band48	5MHz	QPSK	56715	25RB#0	22.05	15.95	23	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.36	16.26	23	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.46	16.36	23	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.52	16.42	23	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.38	15.28	23	PASS
Band48	5MHz	16QAM	55990	1RB#0	21.9	15.8	23	PASS
Band48	5MHz	16QAM	55990	1RB#12	22.03	15.93	23	PASS
Band48	5MHz	16QAM	55990	1RB#24	22.02	15.92	23	PASS
Band48	5MHz	16QAM	55990	25RB#0	20.88	14.78	23	PASS
Band48	5MHz	16QAM	56715	1RB#0	22.17	16.07	23	PASS
Band48	5MHz	16QAM	56715	1RB#12	22.23	16.13	23	PASS
Band48	5MHz	16QAM	56715	1RB#24	22.13	16.03	23	PASS
Band48	5MHz	16QAM	56715	25RB#0	21.11	15.01	23	PASS
Band48	5MHz	64QAM	55265	1RB#0	22.34	16.24	23	PASS
Band48	5MHz	64QAM	55265	1RB#12	22.36	16.26	23	PASS
Band48	5MHz	64QAM	55265	1RB#24	22.26	16.16	23	PASS
Band48	5MHz	64QAM	55265	25RB#0	21.44	15.34	23	PASS
Band48	5MHz	64QAM	55990	1RB#0	21.73	15.63	23	PASS



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Band48	5MHz	64QAM	55990	1RB#12	21.88	15.78	23	PASS
Band48	5MHz	64QAM	55990	1RB#24	21.84	15.74	23	PASS
Band48	5MHz	64QAM	55990	25RB#0	20.92	14.82	23	PASS
Band48	5MHz	64QAM	56715	1RB#0	22.09	15.99	23	PASS
Band48	5MHz	64QAM	56715	1RB#12	22.22	16.12	23	PASS
Band48	5MHz	64QAM	56715	1RB#24	22.09	15.99	23	PASS
Band48	5MHz	64QAM	56715	25RB#0	21.03	14.93	23	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.34	17.24	23	PASS
Band48	10MHz	QPSK	55290	1RB#24	23.4	17.3	23	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.47	17.37	23	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.44	16.34	23	PASS
Band48	10MHz	QPSK	55990	1RB#0	22.8	16.7	23	PASS
Band48	10MHz	QPSK	55990	1RB#24	22.91	16.81	23	PASS
Band48	10MHz	QPSK	55990	1RB#49	22.98	16.88	23	PASS
Band48	10MHz	QPSK	55990	50RB#0	21.91	15.81	23	PASS
Band48	10MHz	QPSK	56690	1RB#0	23.13	17.03	23	PASS
Band48	10MHz	QPSK	56690	1RB#24	23.2	17.1	23	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.1	17	23	PASS
Band48	10MHz	QPSK	56690	50RB#0	22.21	16.11	23	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.44	16.34	23	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.34	16.24	23	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.42	16.32	23	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.43	15.33	23	PASS
Band48	10MHz	16QAM	55990	1RB#0	21.81	15.71	23	PASS
Band48	10MHz	16QAM	55990	1RB#24	21.98	15.88	23	PASS
Band48	10MHz	16QAM	55990	1RB#49	22.01	15.91	23	PASS
Band48	10MHz	16QAM	55990	50RB#0	20.85	14.75	23	PASS
Band48	10MHz	16QAM	56690	1RB#0	22.28	16.18	23	PASS
Band48	10MHz	16QAM	56690	1RB#24	22.18	16.08	23	PASS
Band48	10MHz	16QAM	56690	1RB#49	22.17	16.07	23	PASS
Band48	10MHz	16QAM	56690	50RB#0	21.2	15.1	23	PASS
Band48	10MHz	64QAM	55290	1RB#0	21.34	15.24	23	PASS
Band48	10MHz	64QAM	55290	1RB#24	21.47	15.37	23	PASS
Band48	10MHz	64QAM	55290	1RB#49	21.54	15.44	23	PASS



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Band48	10MHz	64QAM	55290	50RB#0	20.46	14.36	23	PASS
Band48	10MHz	64QAM	55990	1RB#0	20.81	14.71	23	PASS
Band48	10MHz	64QAM	55990	1RB#24	20.92	14.82	23	PASS
Band48	10MHz	64QAM	55990	1RB#49	20.95	14.85	23	PASS
Band48	10MHz	64QAM	55990	50RB#0	19.85	13.75	23	PASS
Band48	10MHz	64QAM	56690	1RB#0	21.18	15.08	23	PASS
Band48	10MHz	64QAM	56690	1RB#24	21.24	15.14	23	PASS
Band48	10MHz	64QAM	56690	1RB#49	21.12	15.02	23	PASS
Band48	10MHz	64QAM	56690	50RB#0	20.22	14.12	23	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.23	17.13	23	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.23	17.13	23	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.27	17.17	23	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.29	16.19	23	PASS
Band48	15MHz	QPSK	55990	1RB#0	22.7	16.6	23	PASS
Band48	15MHz	QPSK	55990	1RB#38	22.7	16.6	23	PASS
Band48	15MHz	QPSK	55990	1RB#74	22.72	16.62	23	PASS
Band48	15MHz	QPSK	55990	75RB#0	21.79	15.69	23	PASS
Band48	15MHz	QPSK	56665	1RB#0	22.94	16.84	23	PASS
Band48	15MHz	QPSK	56665	1RB#38	23	16.9	23	PASS
Band48	15MHz	QPSK	56665	1RB#74	22.91	16.81	23	PASS
Band48	15MHz	QPSK	56665	75RB#0	22.1	16	23	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.16	16.06	23	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.21	16.11	23	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.19	16.09	23	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.33	15.23	23	PASS
Band48	15MHz	16QAM	55990	1RB#0	21.69	15.59	23	PASS
Band48	15MHz	16QAM	55990	1RB#38	21.73	15.63	23	PASS
Band48	15MHz	16QAM	55990	1RB#74	21.79	15.69	23	PASS
Band48	15MHz	16QAM	55990	75RB#0	20.71	14.61	23	PASS
Band48	15MHz	16QAM	56665	1RB#0	21.89	15.79	23	PASS
Band48	15MHz	16QAM	56665	1RB#38	22.02	15.92	23	PASS
Band48	15MHz	16QAM	56665	1RB#74	21.91	15.81	23	PASS
Band48	15MHz	16QAM	56665	75RB#0	21.06	14.96	23	PASS
Band48	15MHz	64QAM	55315	1RB#0	21.14	15.04	23	PASS



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Band48	15MHz	64QAM	55315	1RB#74	21.12	15.02	23	PASS
Band48	15MHz	64QAM	55315	75RB#0	20.31	14.21	23	PASS
Band48	15MHz	64QAM	55990	1RB#0	20.72	14.62	23	PASS
Band48	15MHz	64QAM	55990	1RB#38	20.7	14.6	23	PASS
Band48	15MHz	64QAM	55990	1RB#74	20.67	14.57	23	PASS
Band48	15MHz	64QAM	55990	75RB#0	19.76	13.66	23	PASS
Band48	15MHz	64QAM	56665	1RB#0	20.97	14.87	23	PASS
Band48	15MHz	64QAM	56665	1RB#38	20.86	14.76	23	PASS
Band48	15MHz	64QAM	56665	1RB#74	20.87	14.77	23	PASS
Band48	15MHz	64QAM	56665	75RB#0	20.13	14.03	23	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.23	17.13	23	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.23	17.13	23	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.28	17.18	23	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.35	16.25	23	PASS
Band48	20MHz	QPSK	55990	1RB#0	22.59	16.49	23	PASS
Band48	20MHz	QPSK	55990	1RB#49	22.71	16.61	23	PASS
Band48	20MHz	QPSK	55990	1RB#99	22.8	16.7	23	PASS
Band48	20MHz	QPSK	55990	100RB#0	21.76	15.66	23	PASS
Band48	20MHz	QPSK	56640	1RB#0	22.9	16.8	23	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.01	16.91	23	PASS
Band48	20MHz	QPSK	56640	1RB#99	22.93	16.83	23	PASS
Band48	20MHz	QPSK	56640	100RB#0	22.02	15.92	23	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.14	16.04	23	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.53	16.43	23	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.35	16.25	23	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.31	15.21	23	PASS
Band48	20MHz	16QAM	55990	1RB#0	21.53	15.43	23	PASS
Band48	20MHz	16QAM	55990	1RB#49	21.71	15.61	23	PASS
Band48	20MHz	16QAM	55990	1RB#99	21.8	15.7	23	PASS
Band48	20MHz	16QAM	55990	100RB#0	20.8	14.7	23	PASS
Band48	20MHz	16QAM	56640	1RB#0	21.86	15.76	23	PASS
Band48	20MHz	16QAM	56640	1RB#49	22.1	16	23	PASS
Band48	20MHz	16QAM	56640	1RB#99	21.97	15.87	23	PASS



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Table with 9 columns: Band, Frequency, Modulation, Power, Bandwidth, SNR, BER, Error Rate, and Result. It lists 15 test results for Band48 at 20MHz, all showing PASS results.



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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	/
				-10	3.7	-2.400	-0.0007	/	Pass
					0	3.7	0.300	0.0001	/
				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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# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR240400009001

Rev.: 01

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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



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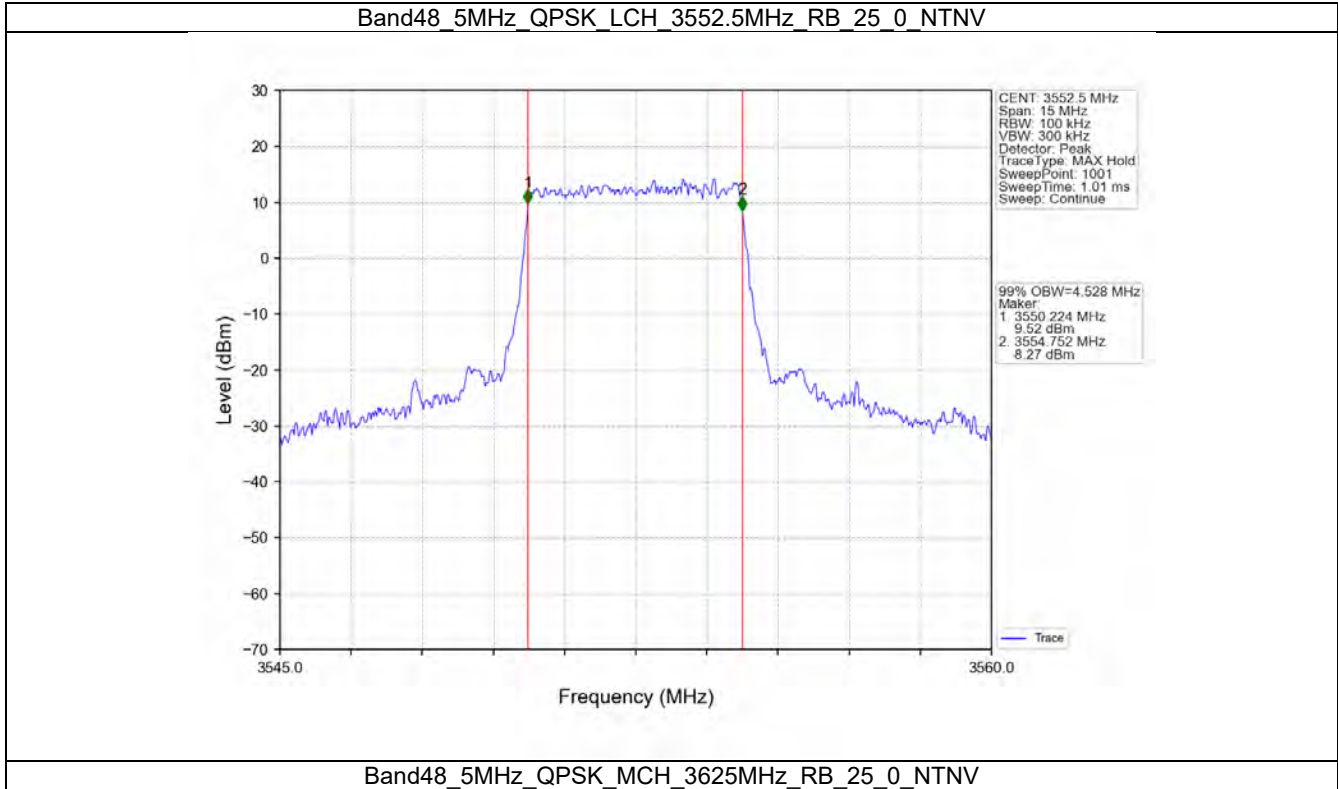
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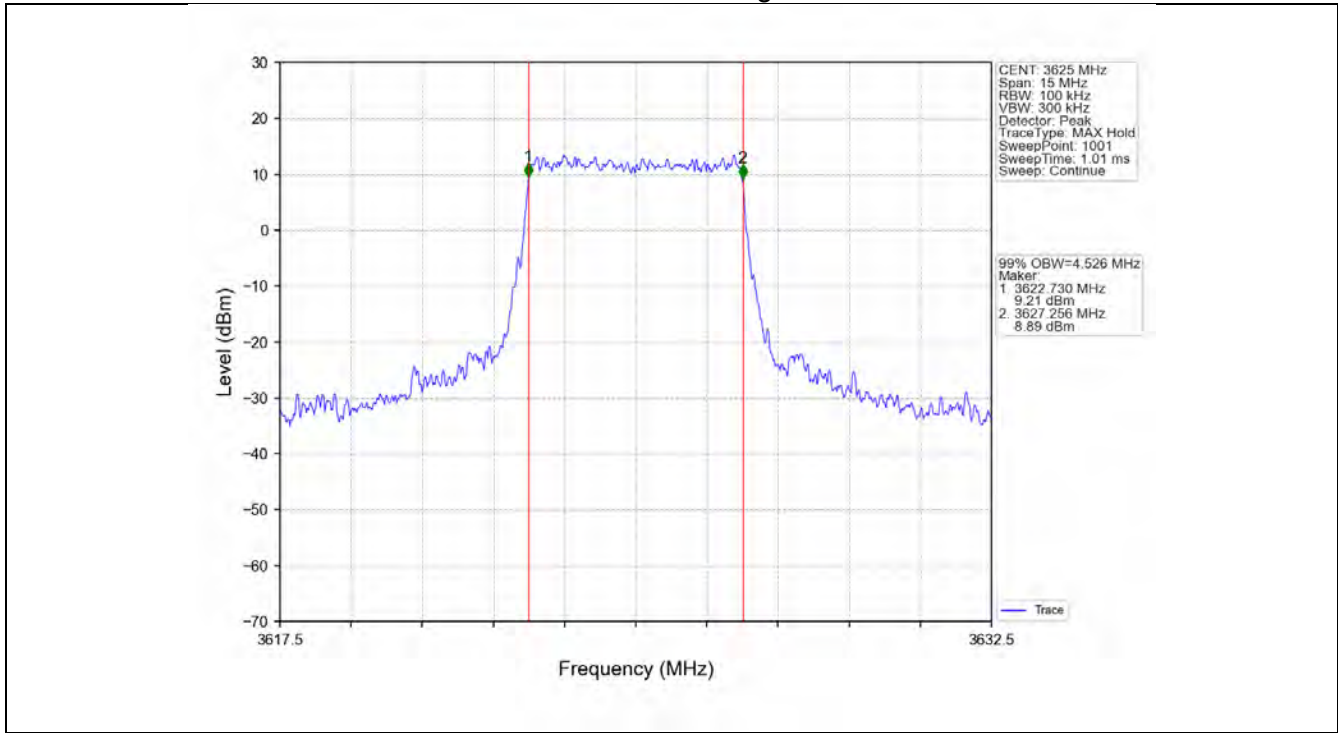
3.1.2 Test Graph



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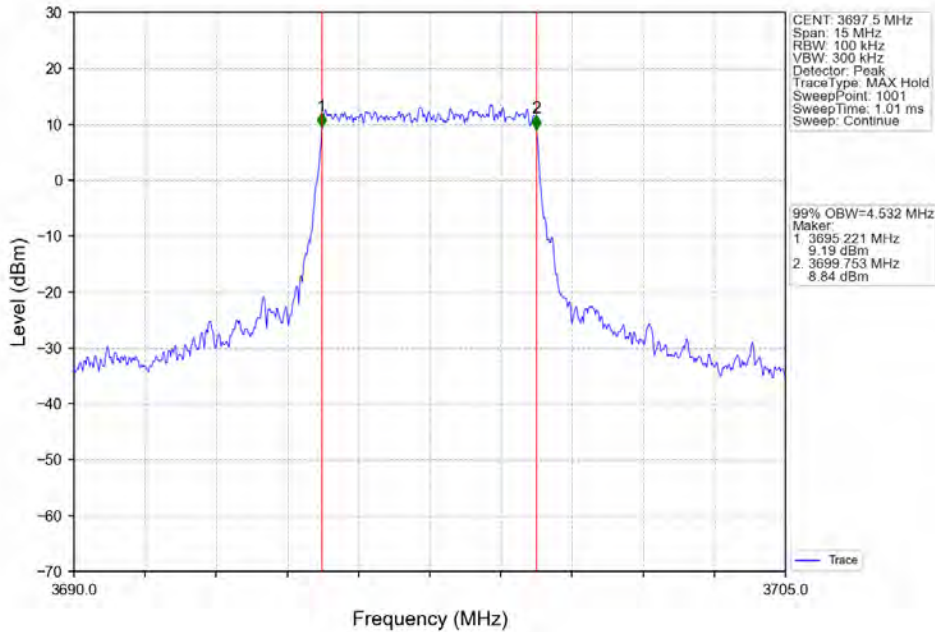


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



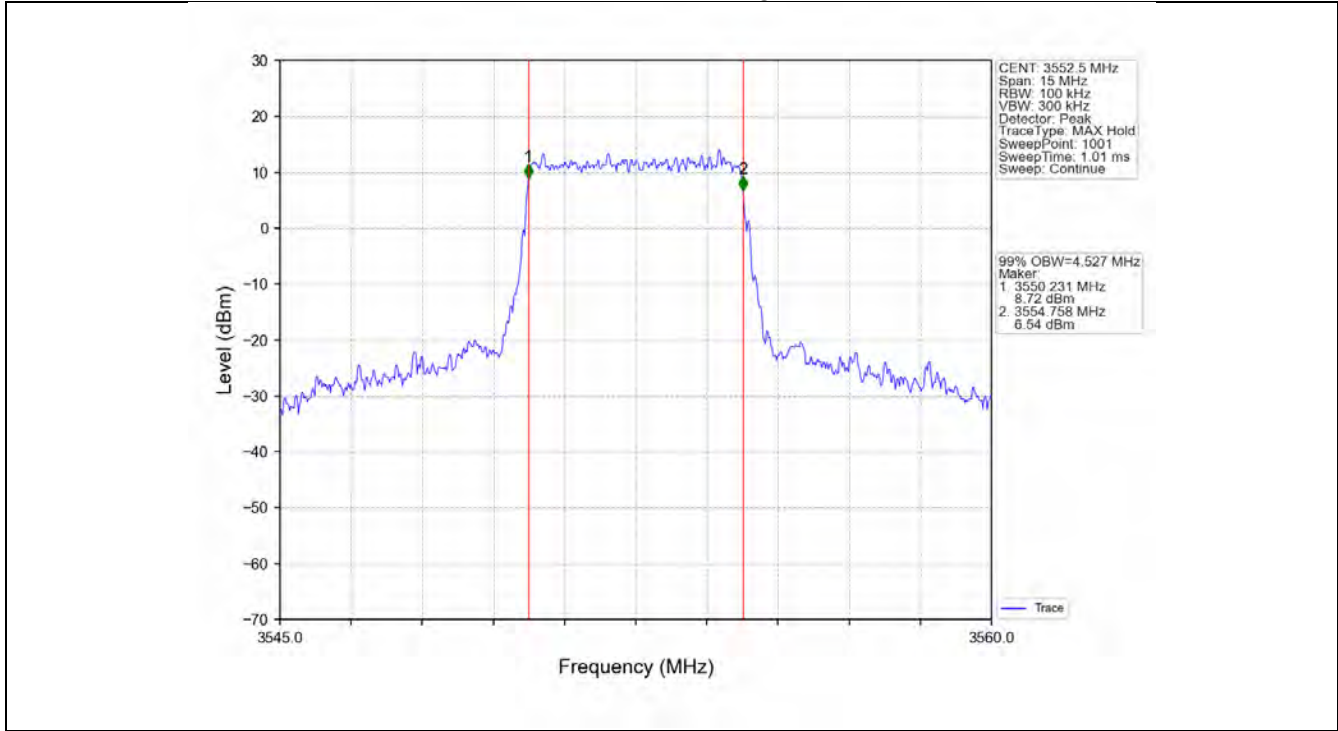
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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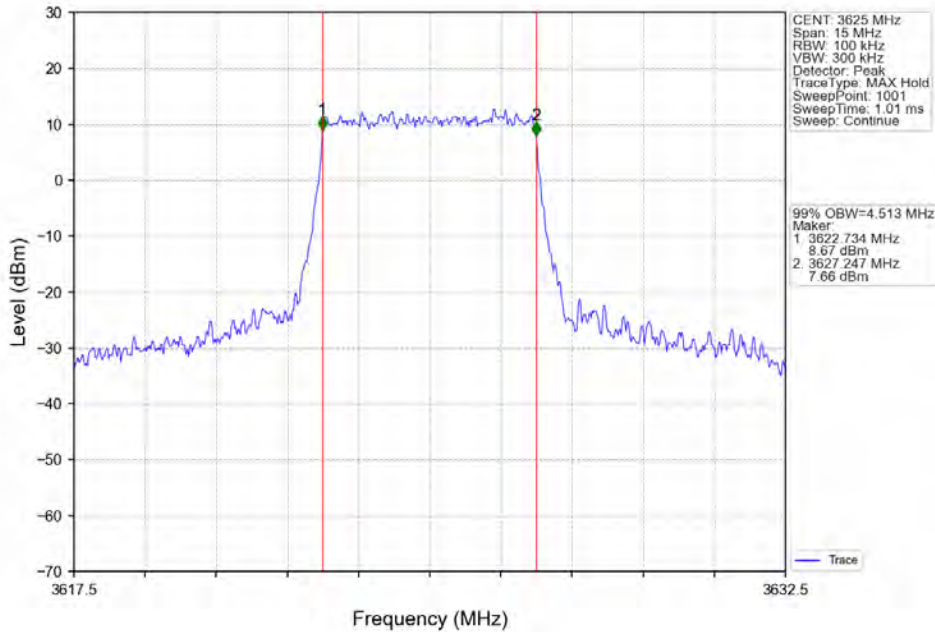
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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



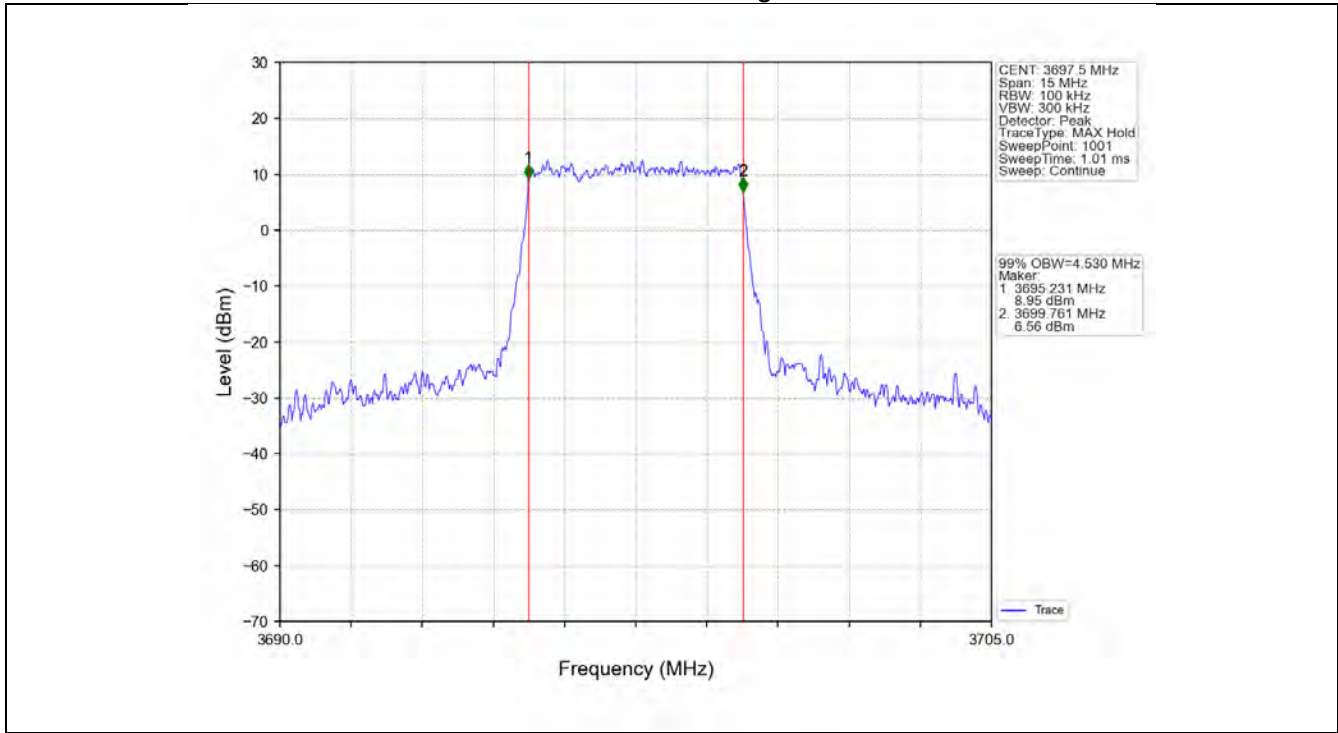
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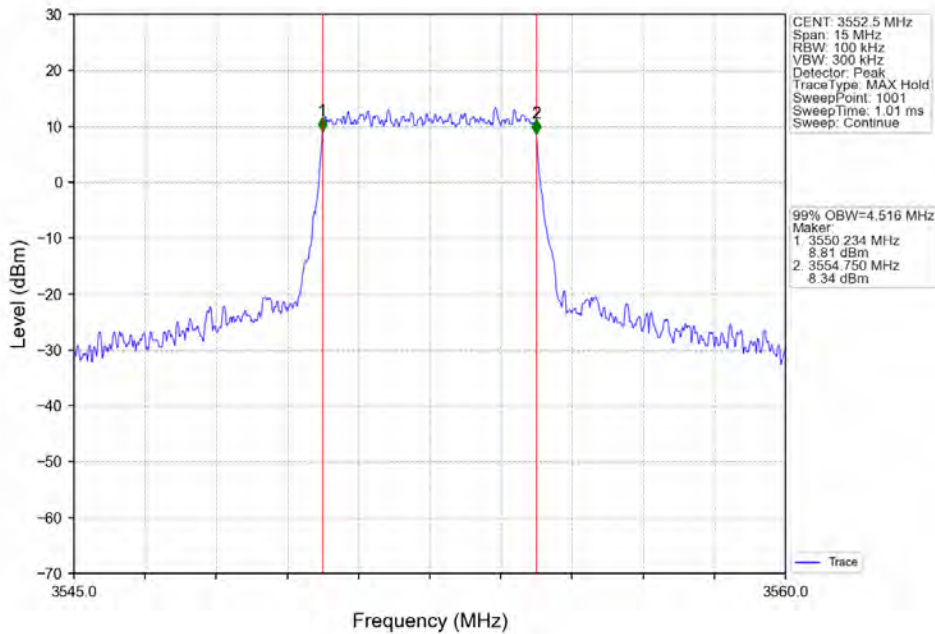


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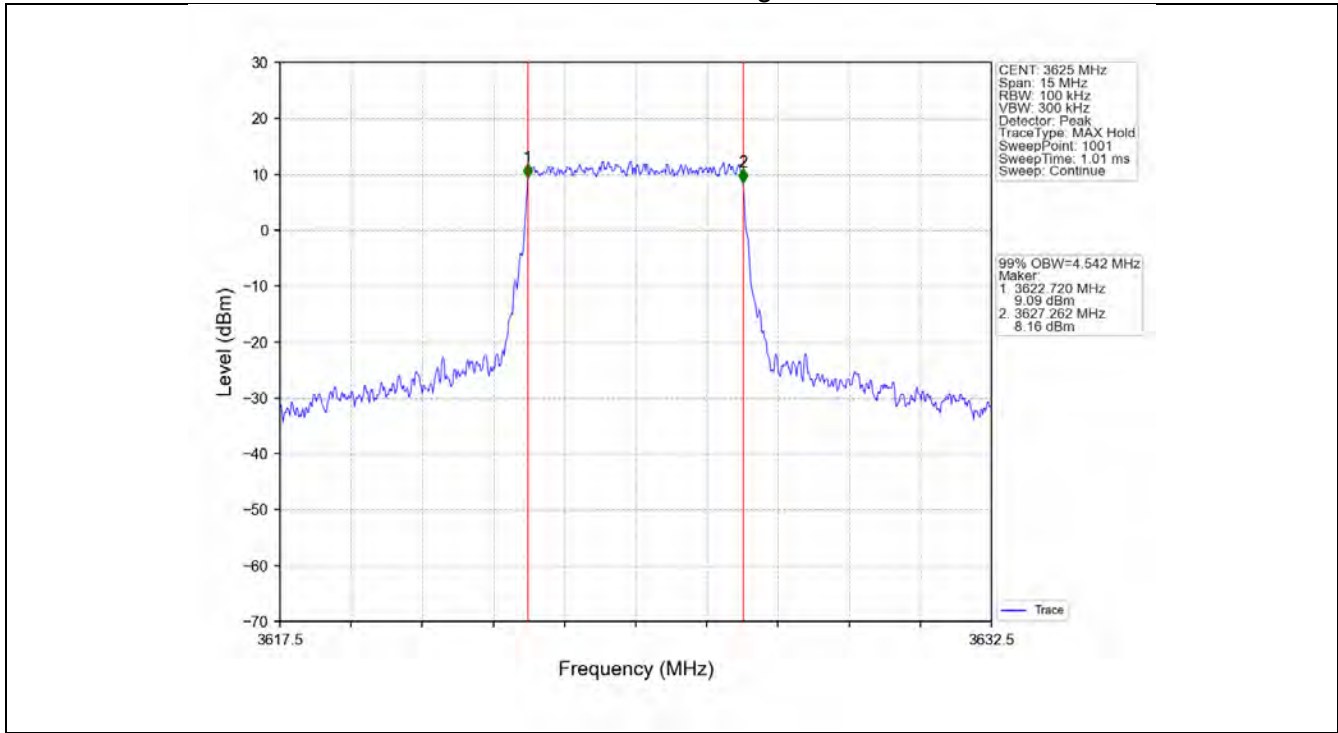
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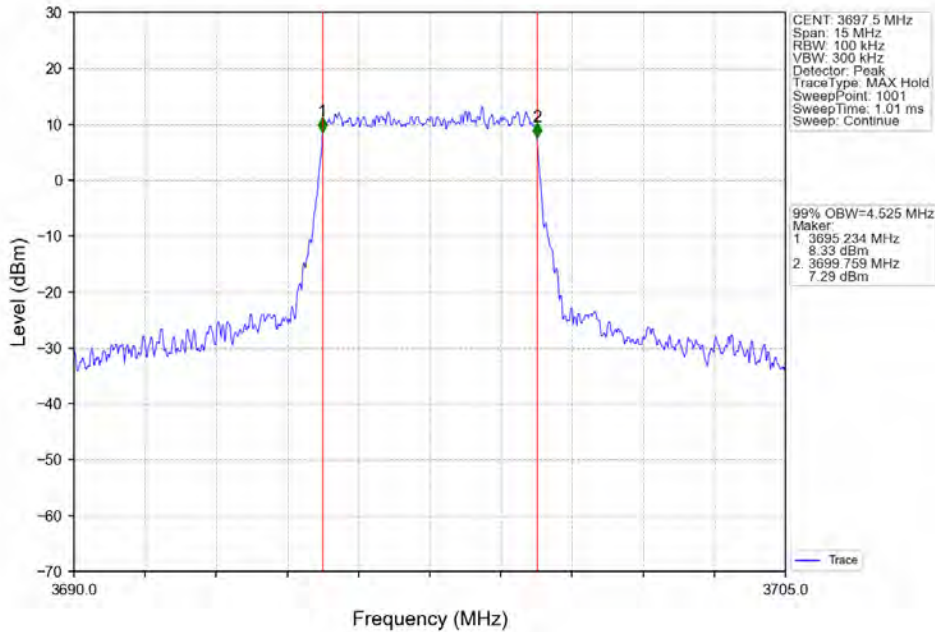


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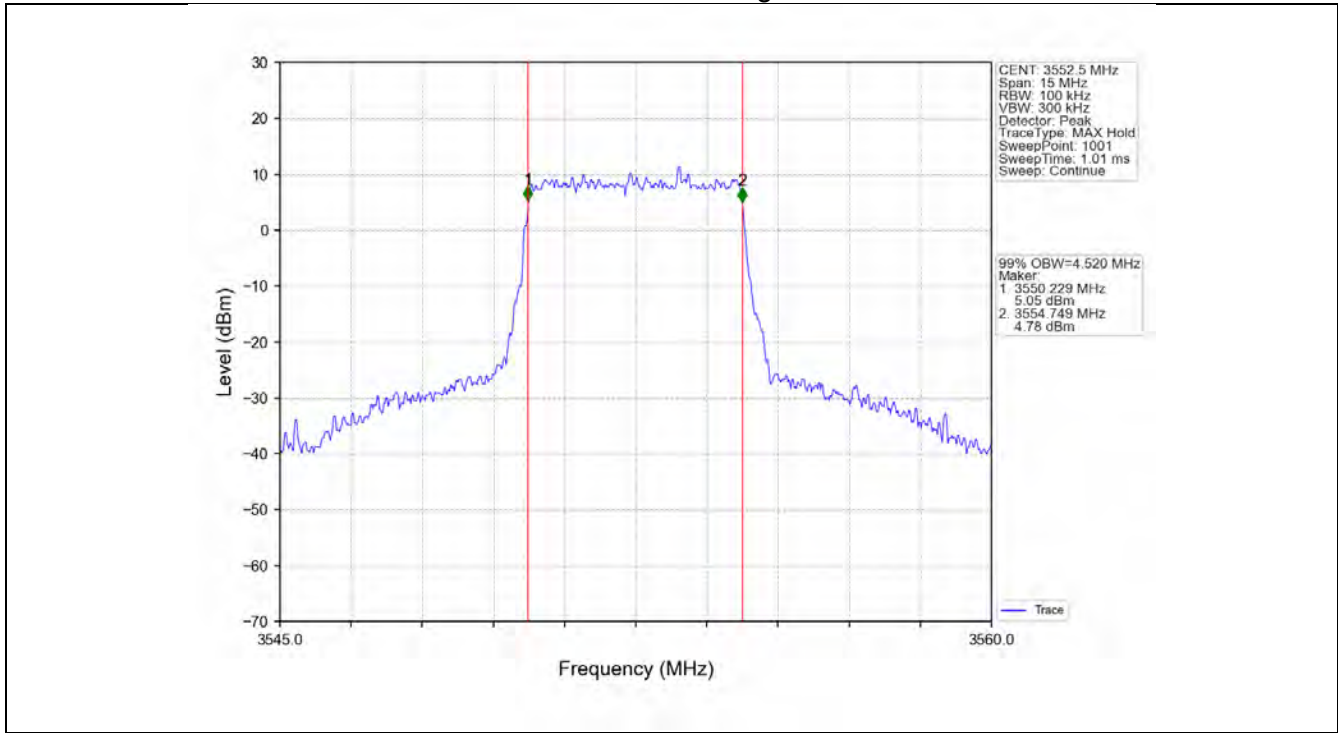
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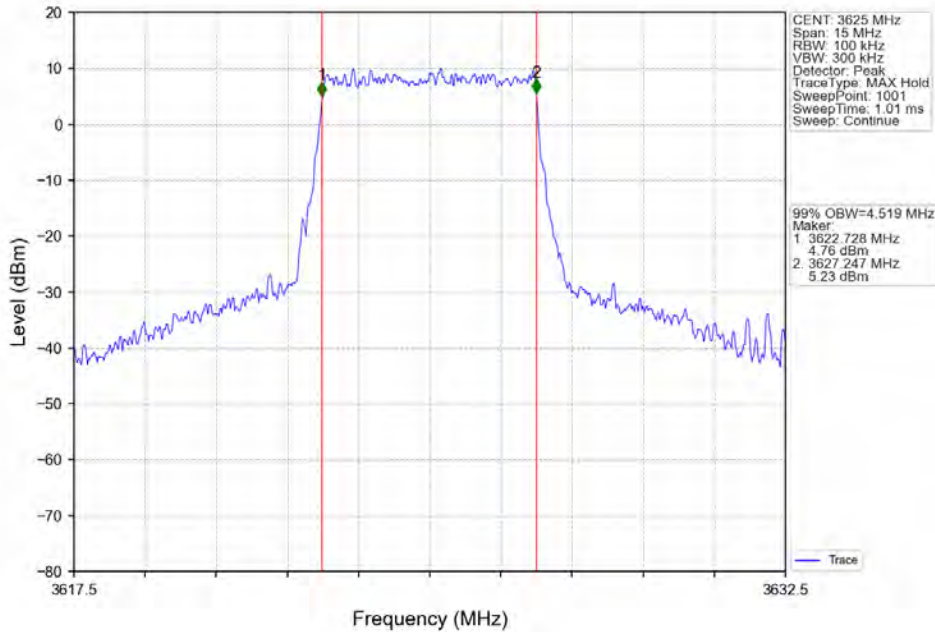


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Band48\_5MHz\_256QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



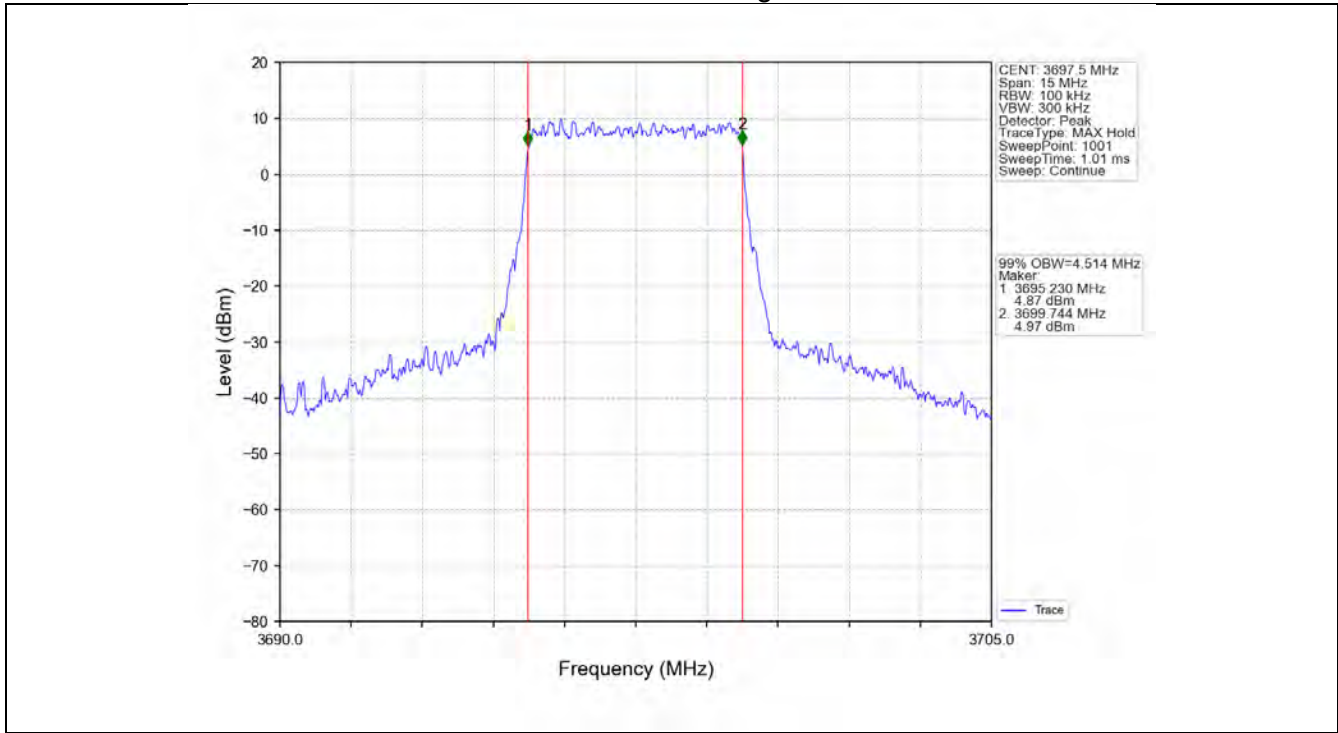
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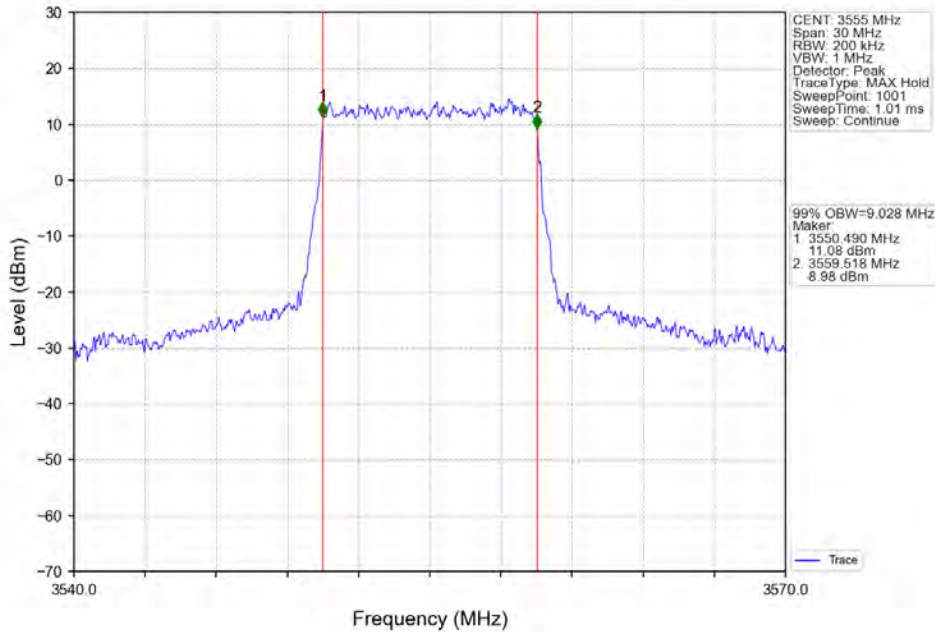


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Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



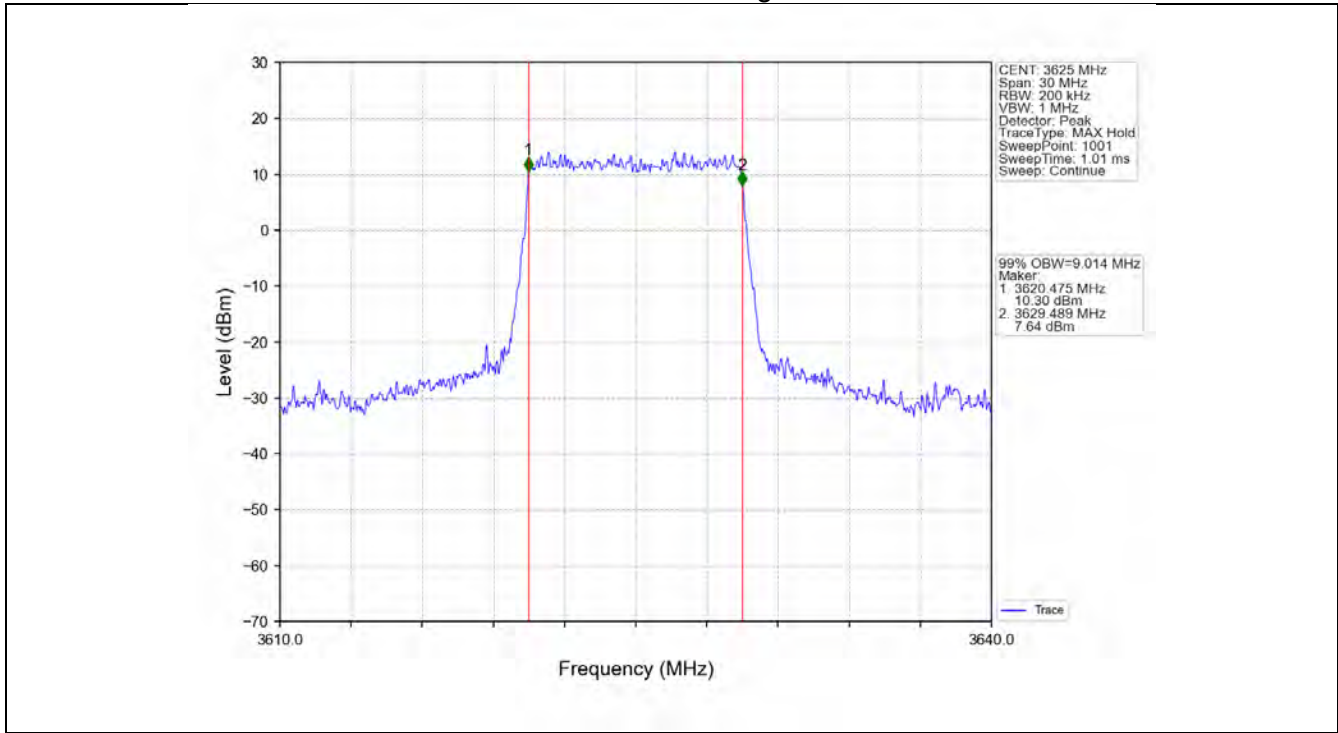
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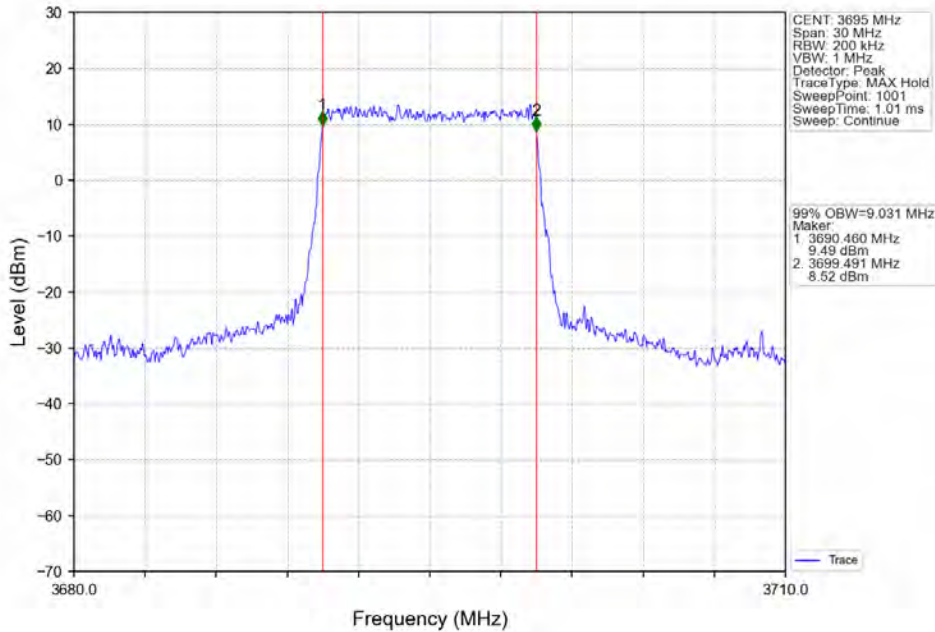


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Rev.: 01

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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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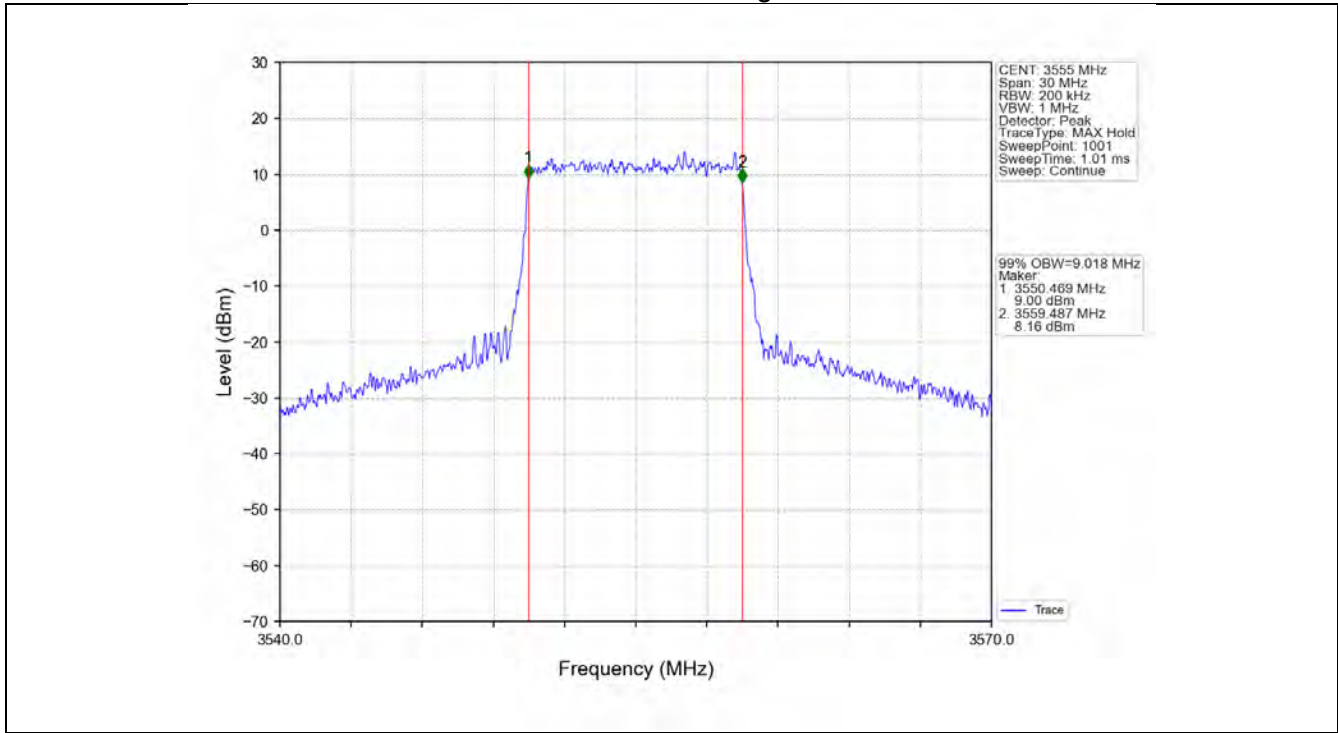
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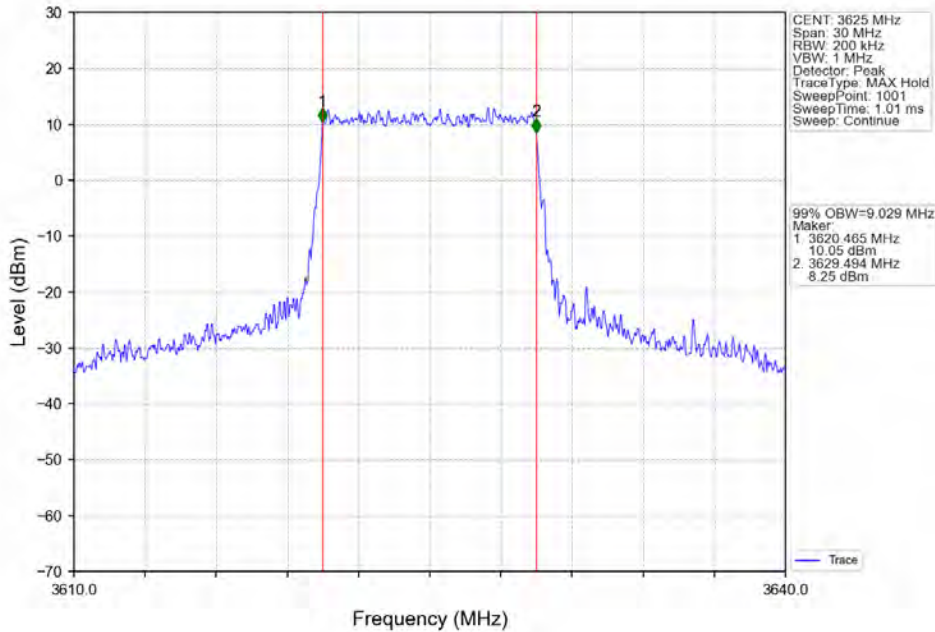


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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTN



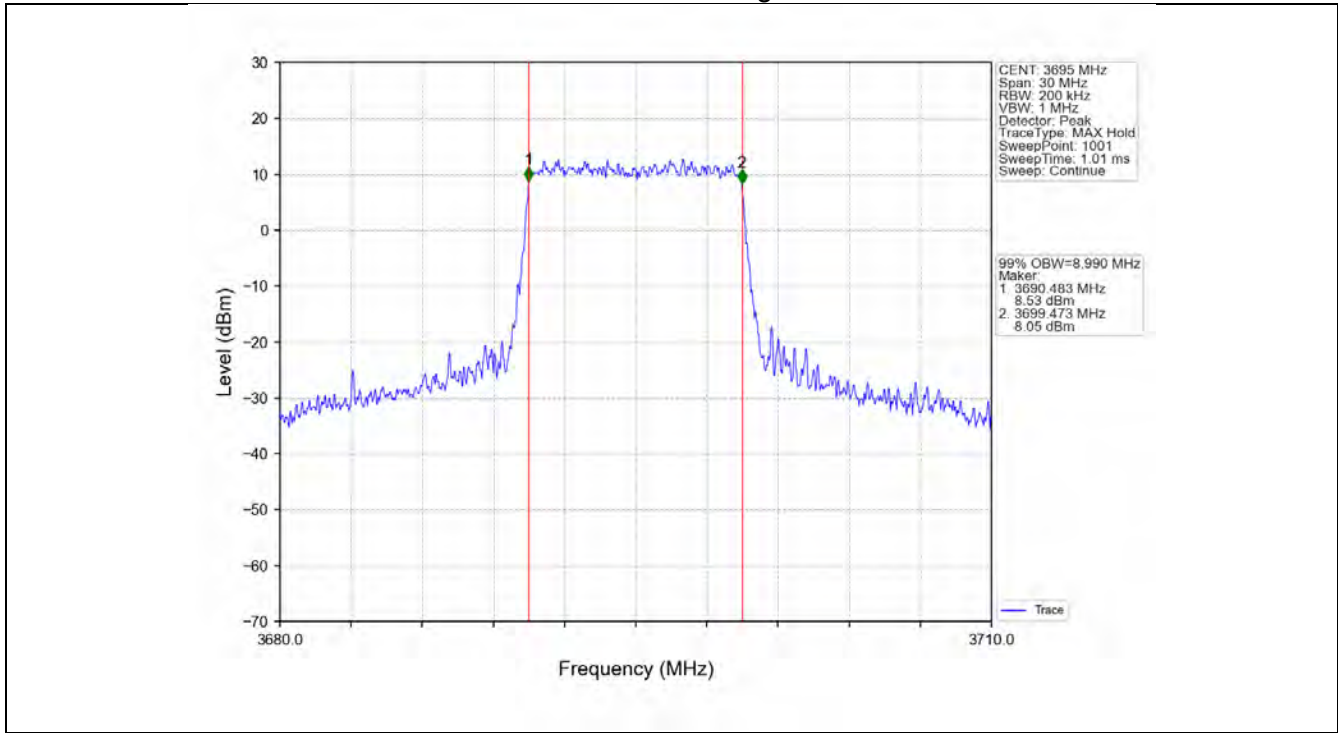
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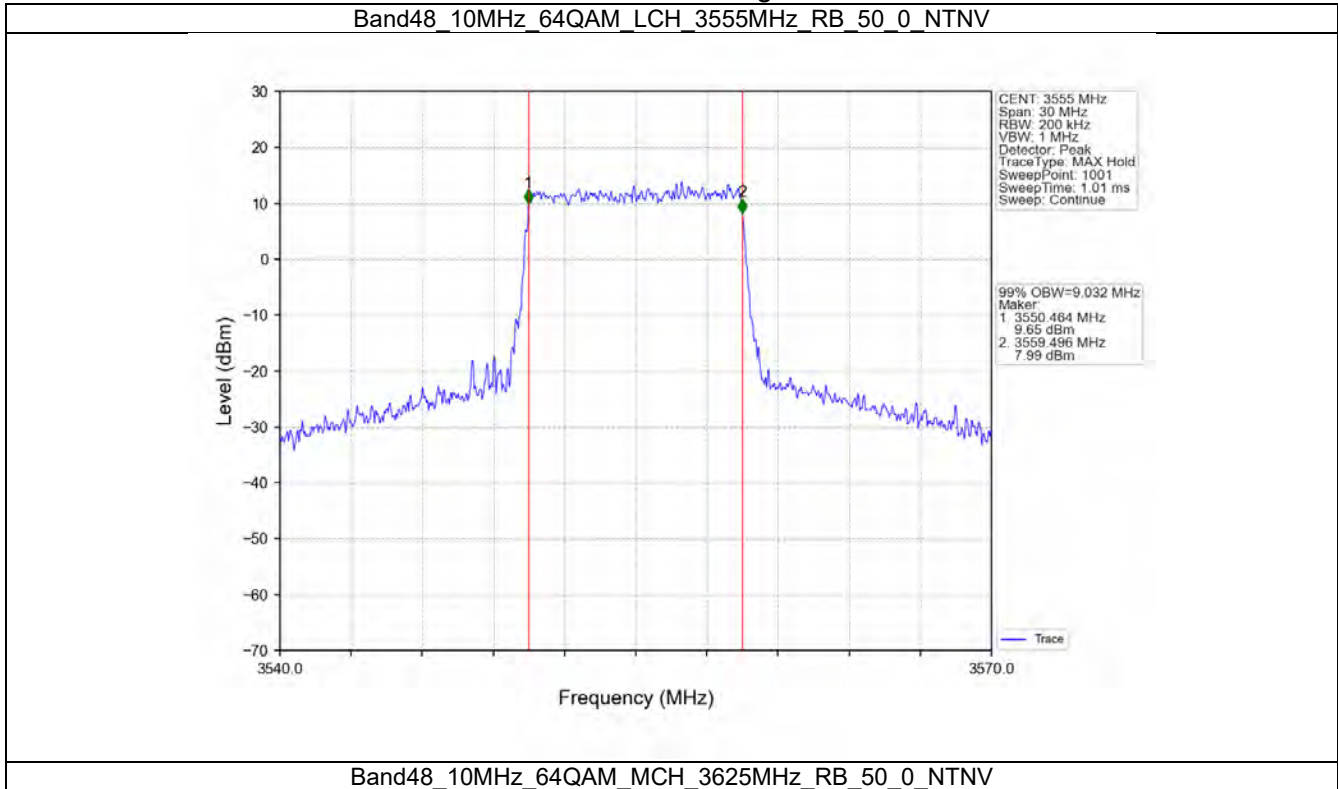
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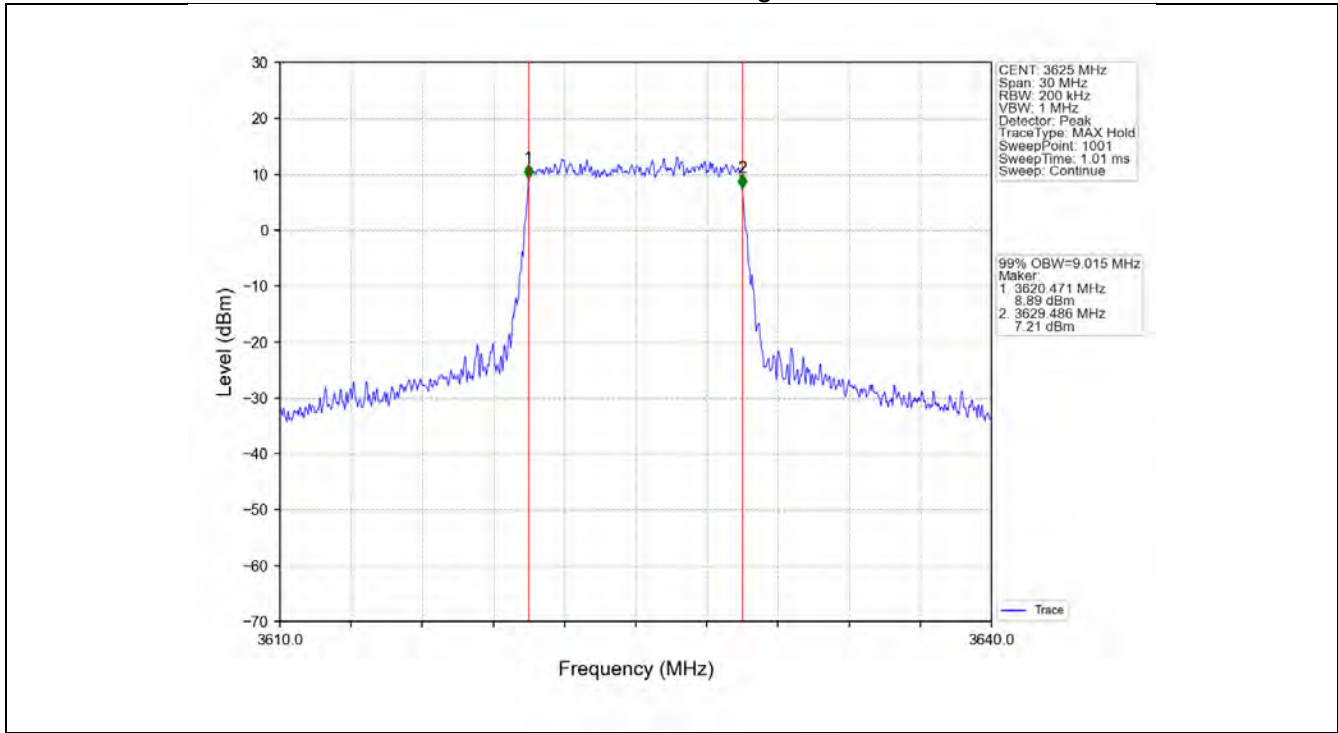
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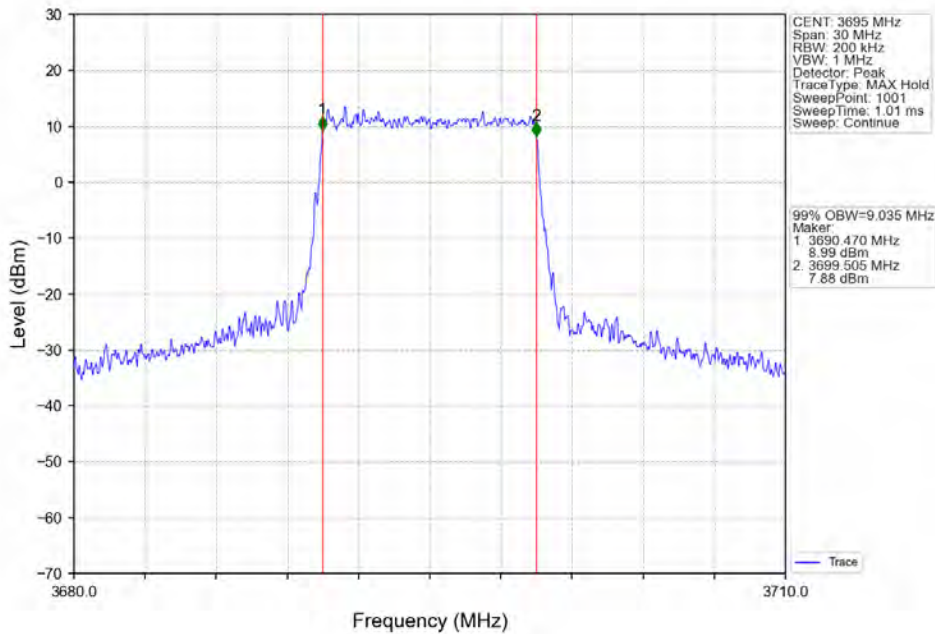


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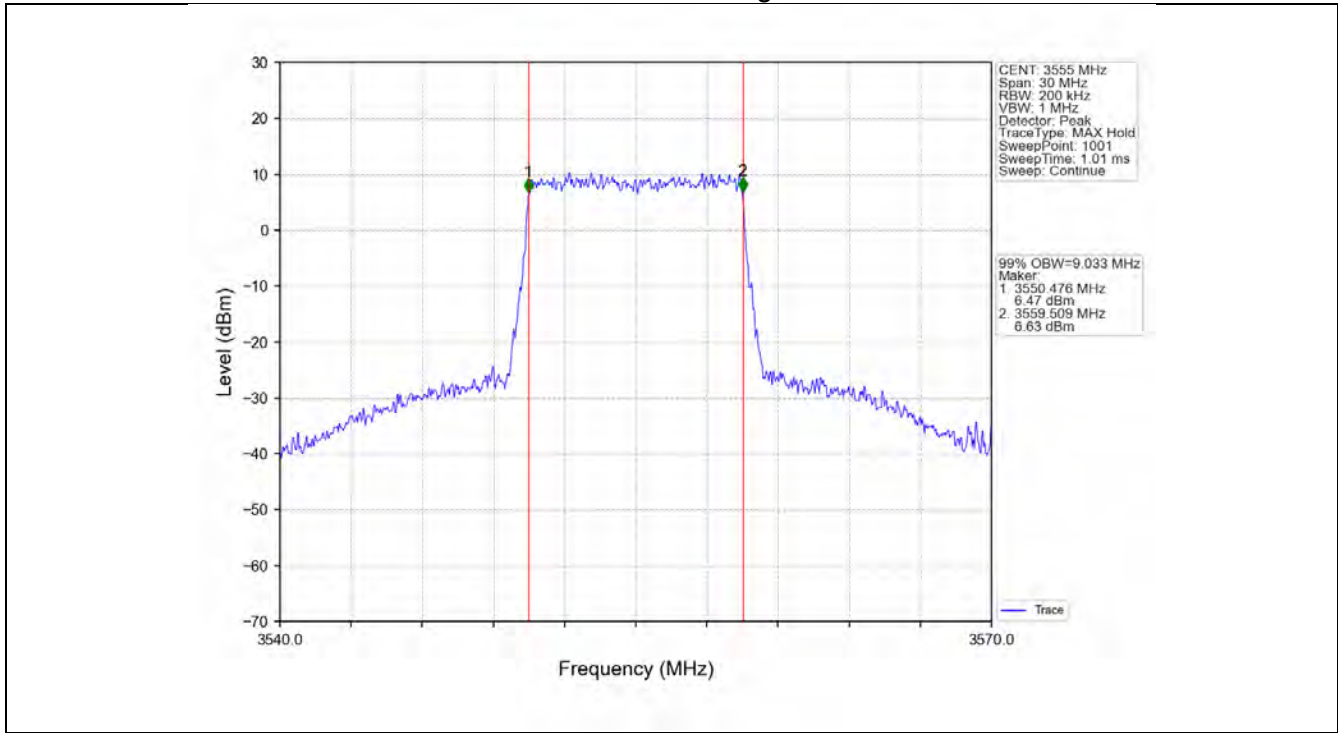
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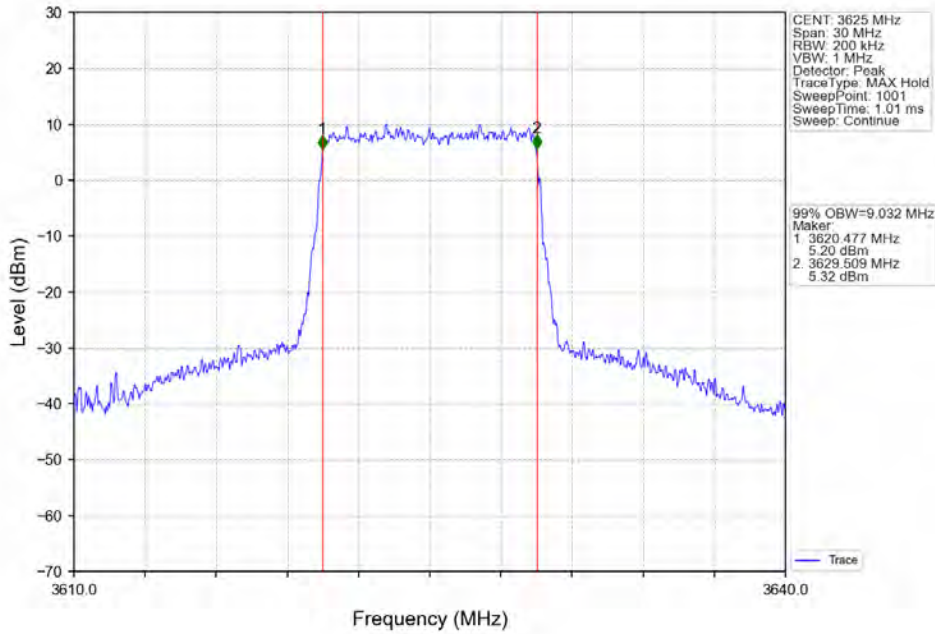


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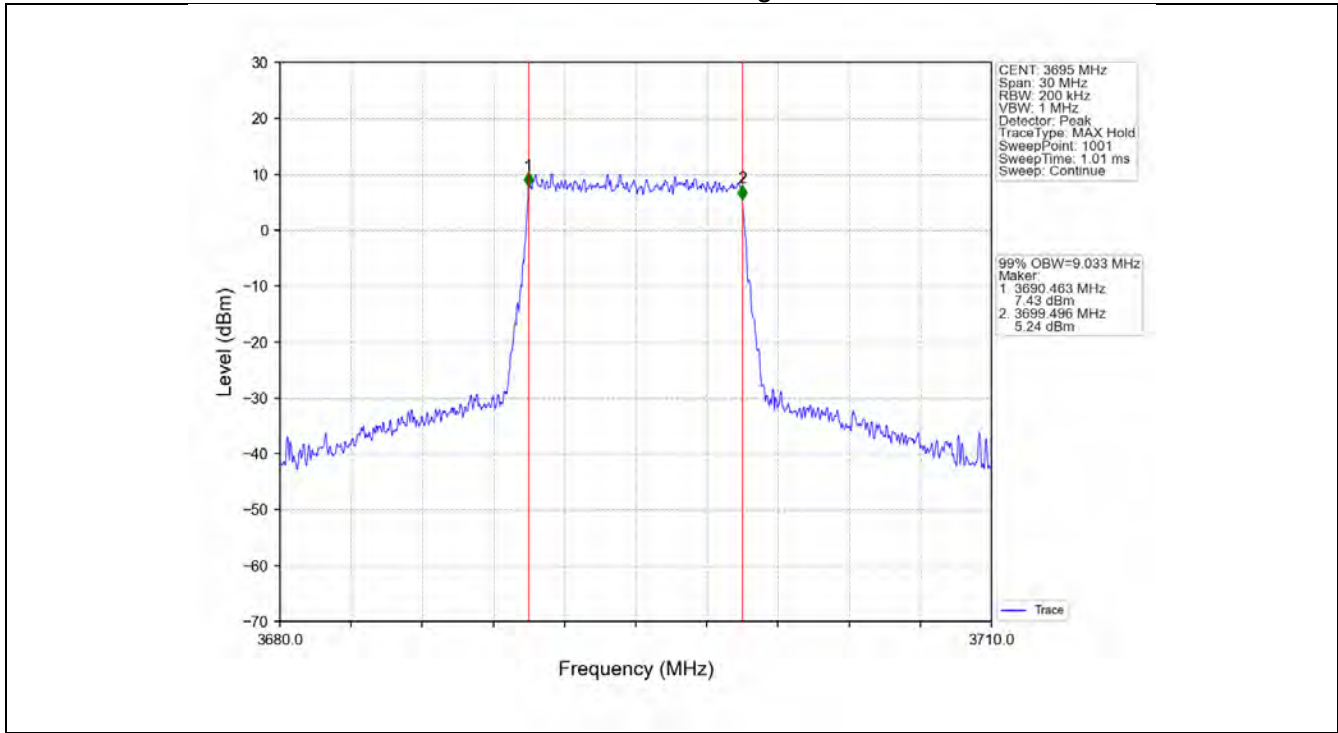


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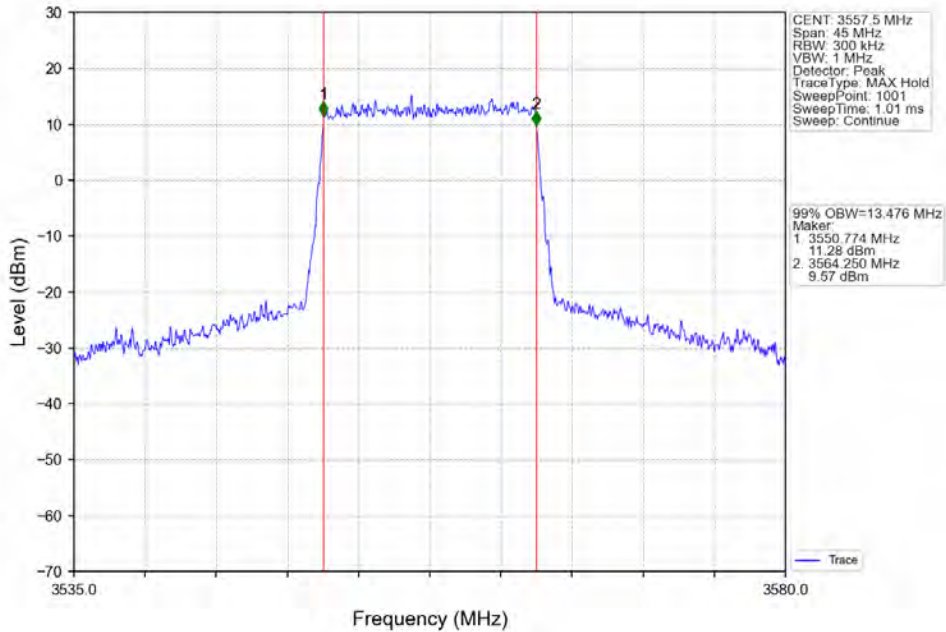


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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTN



Band48 15MHz QPSK MCH 3625MHz RB 75 0 NTN

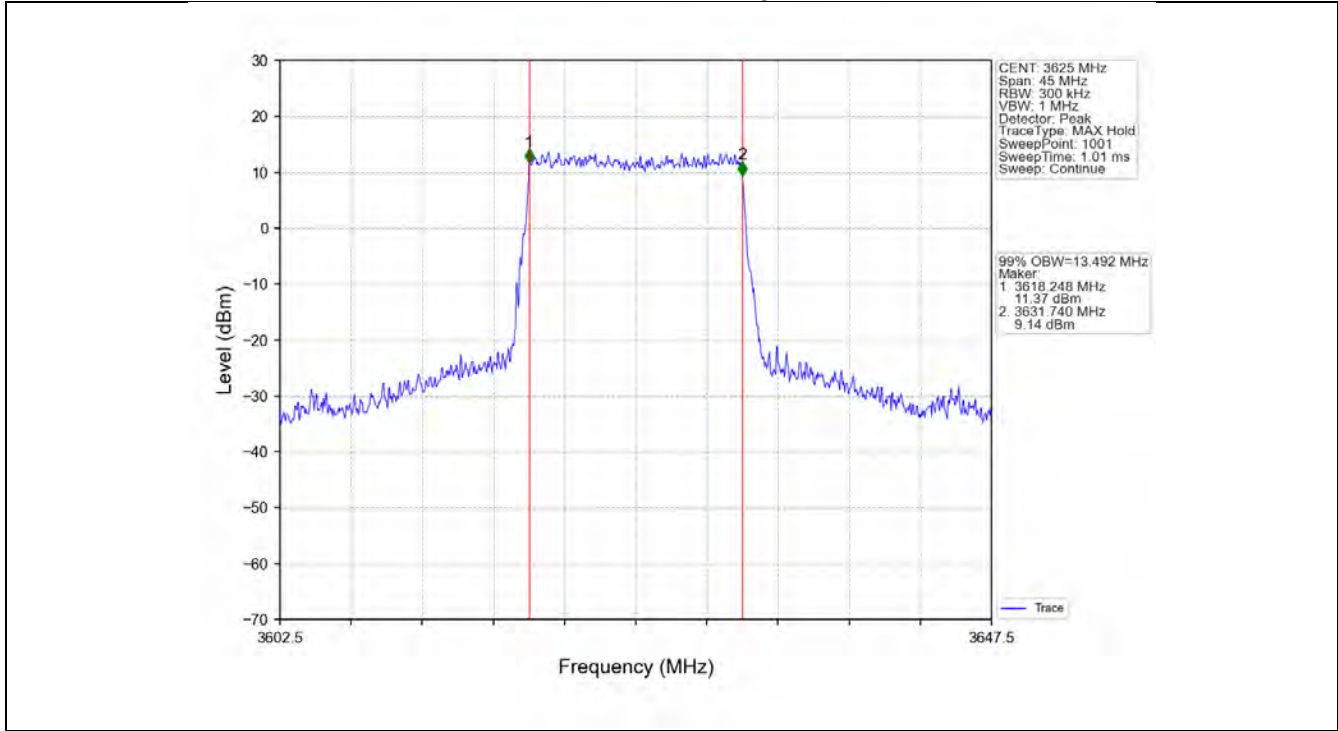


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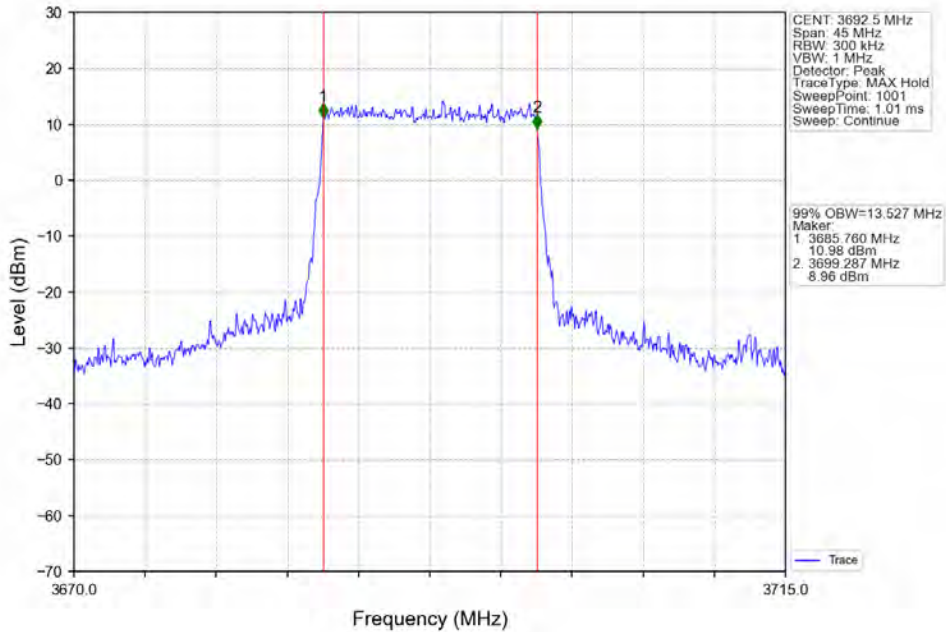


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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



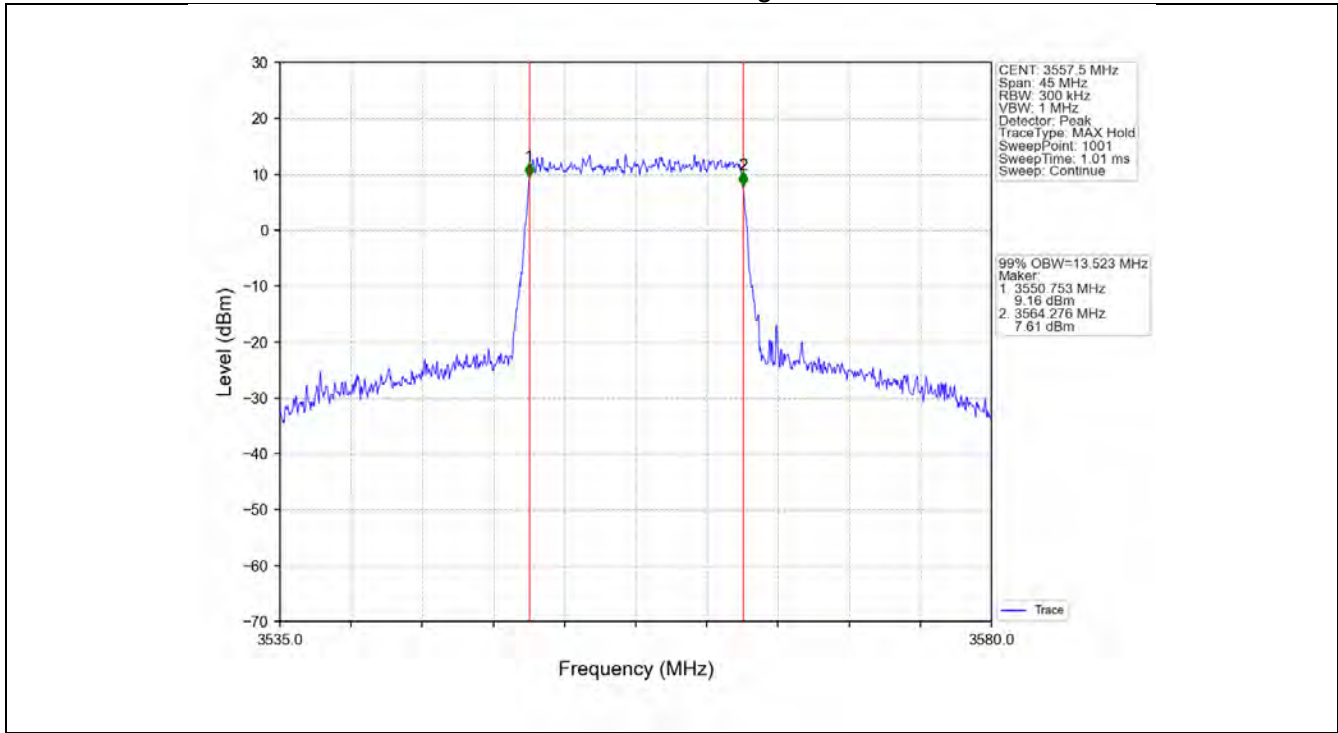
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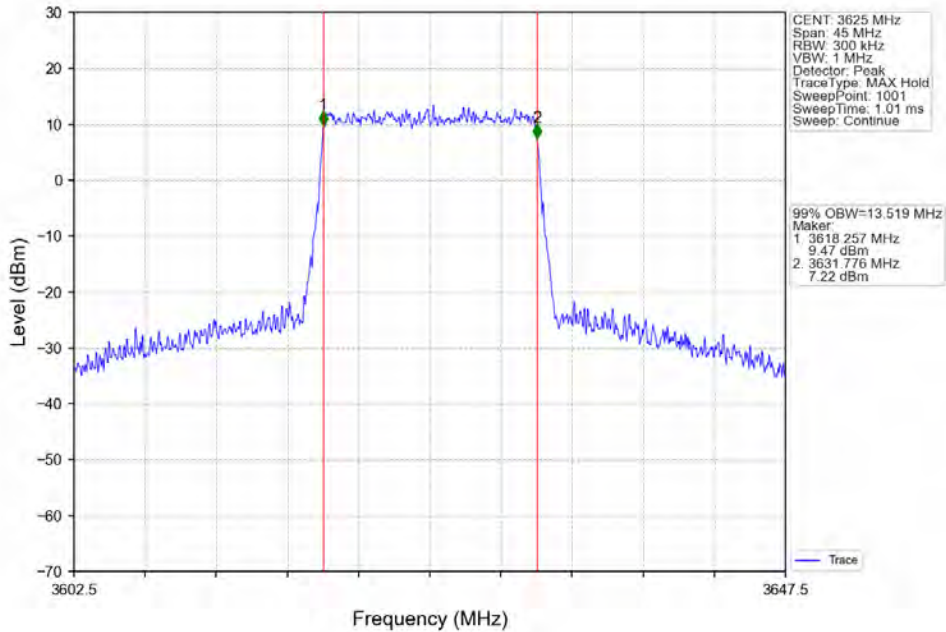


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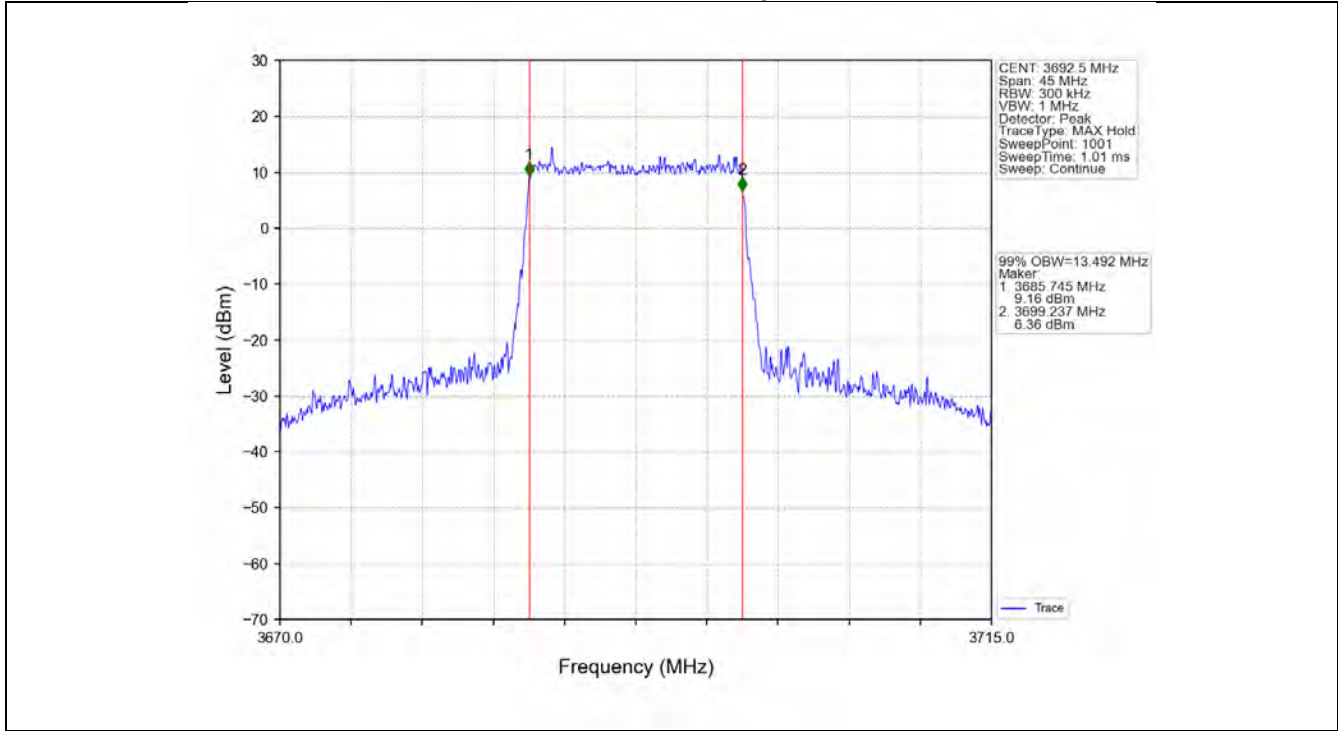


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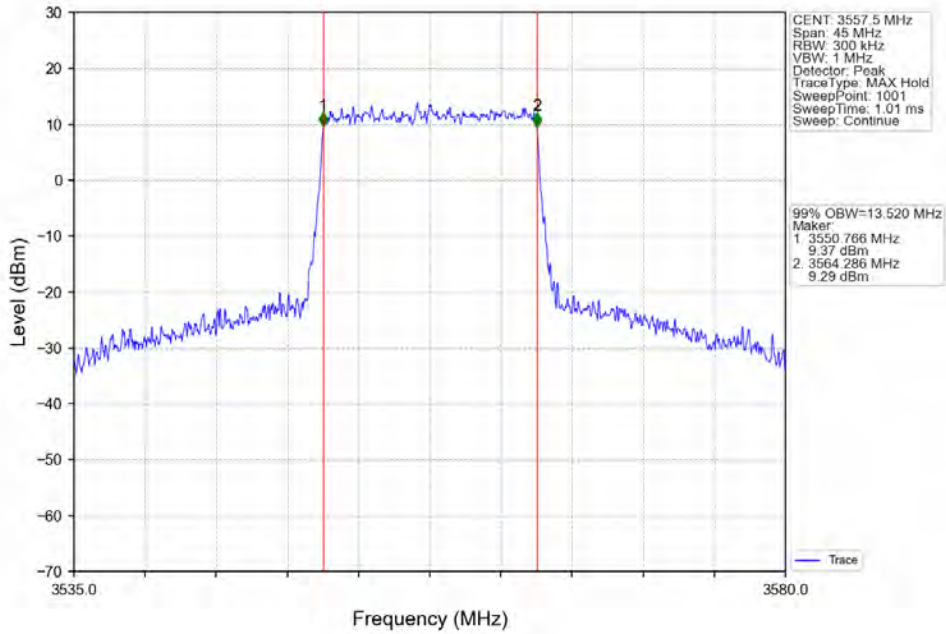


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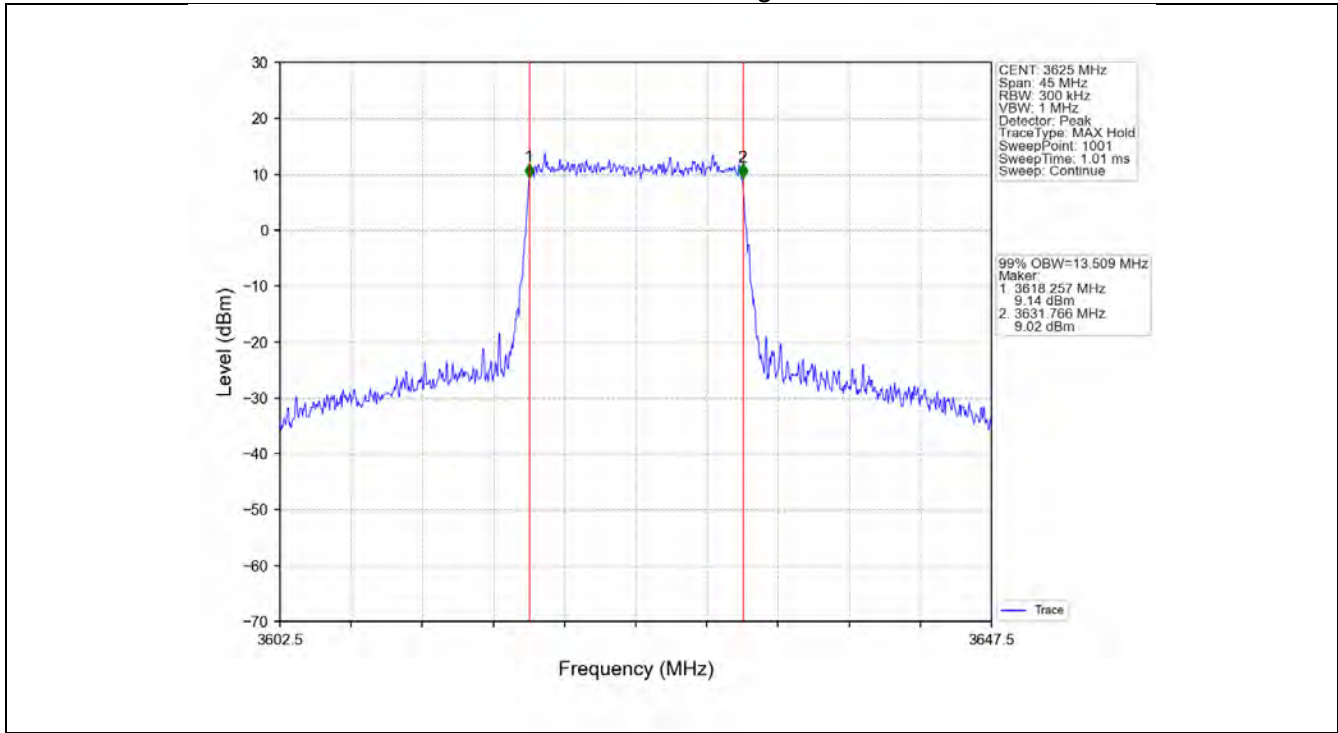


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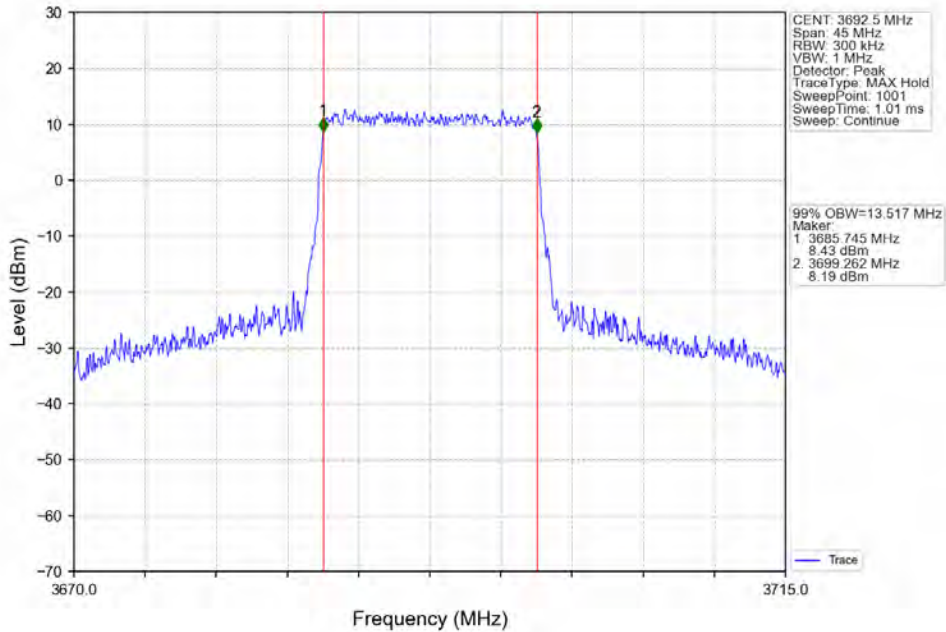


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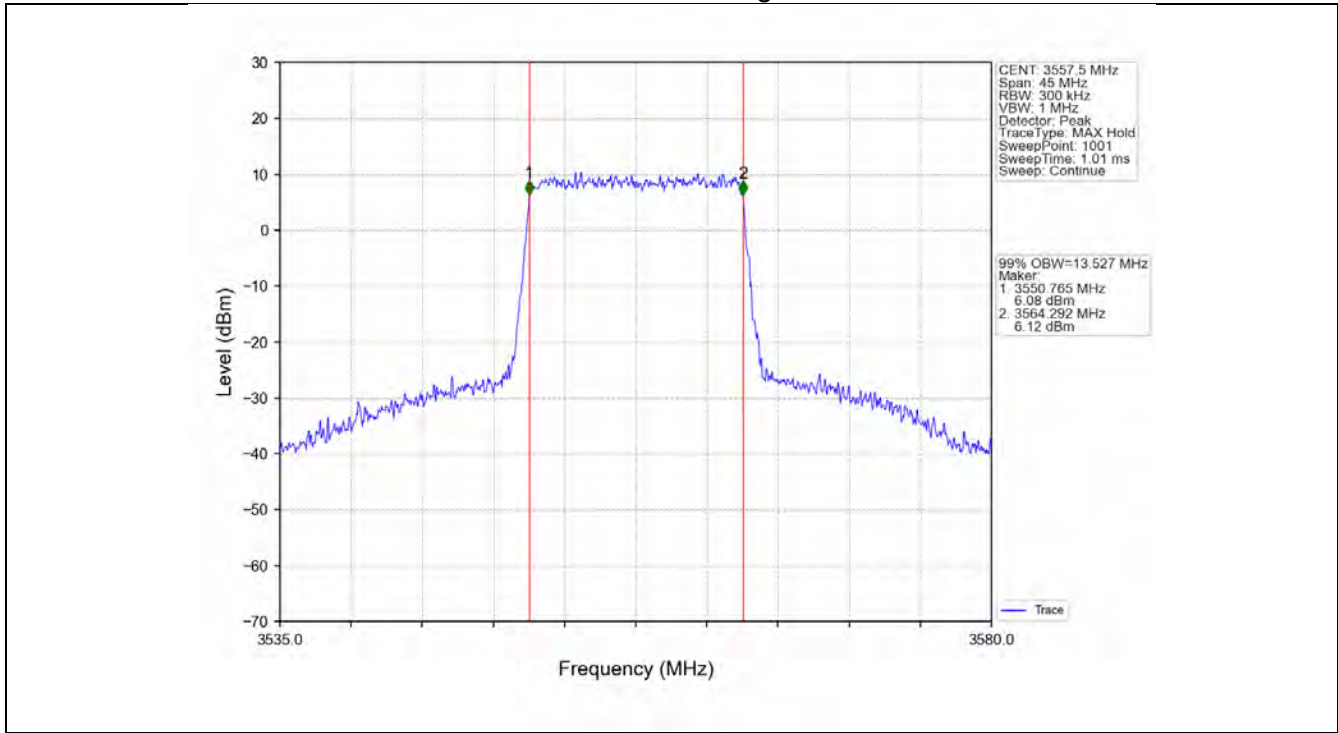
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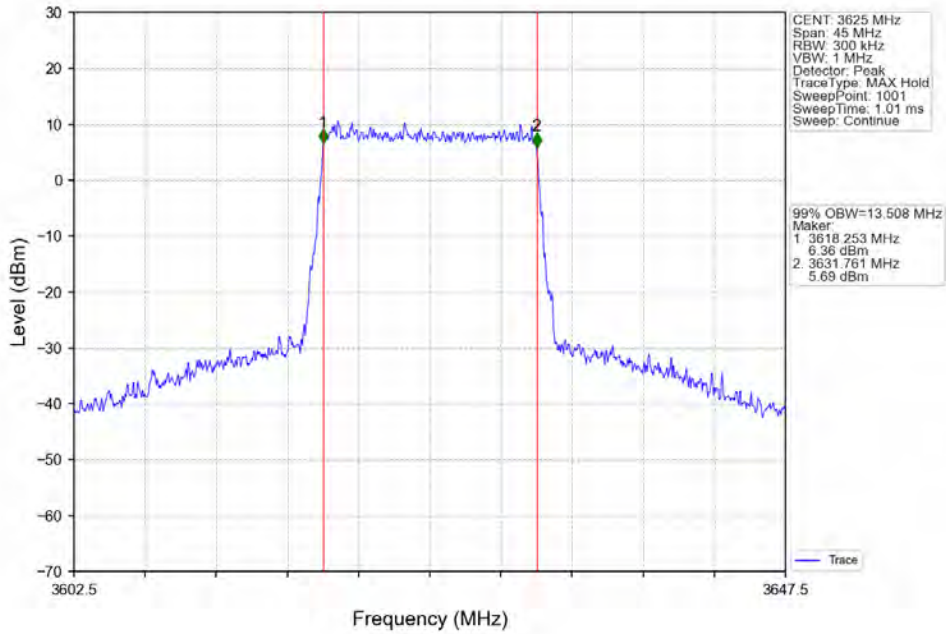


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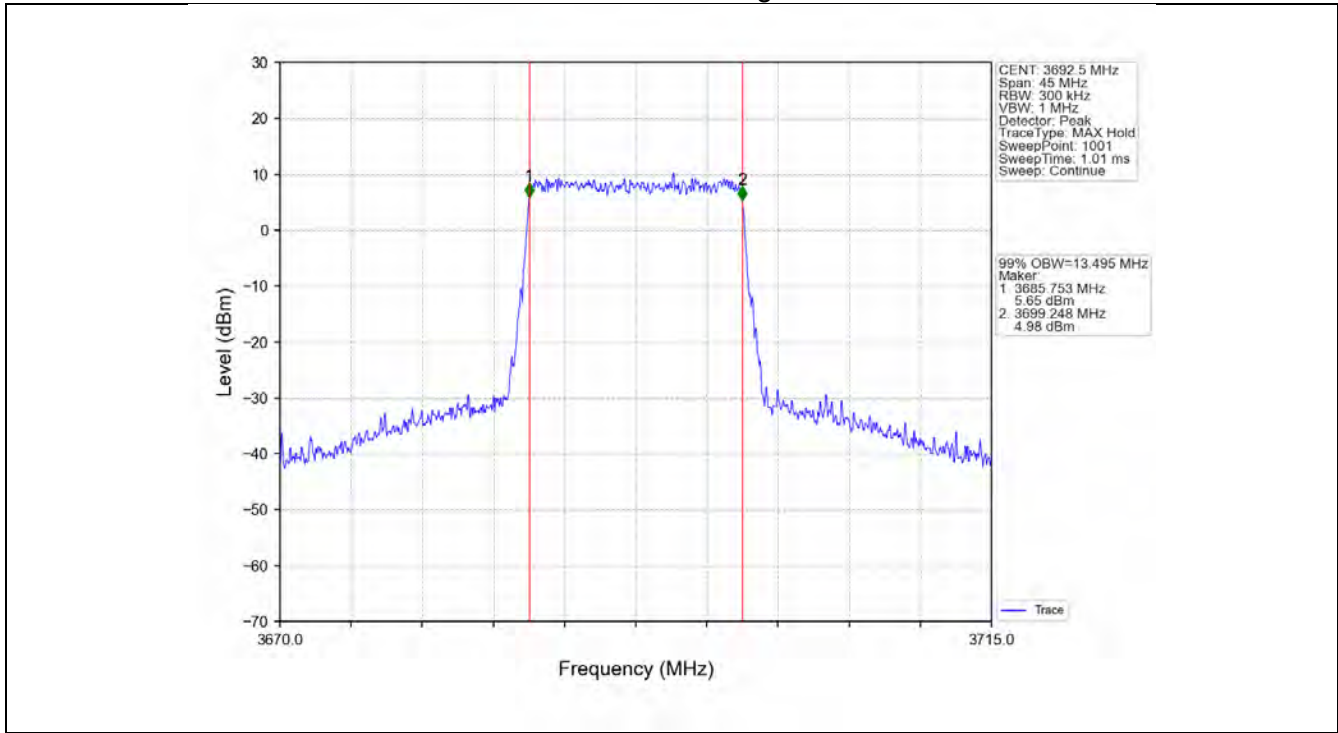
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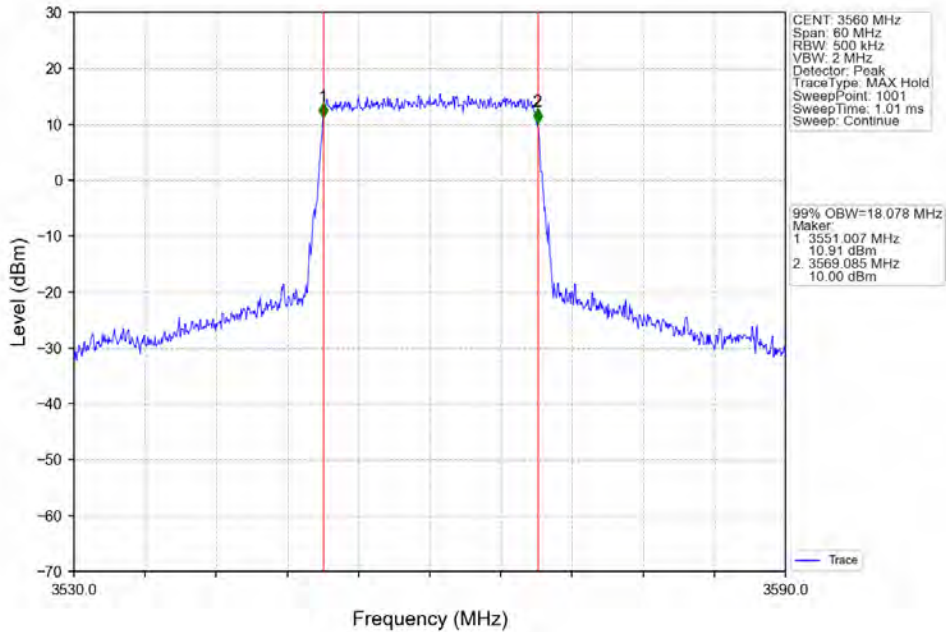
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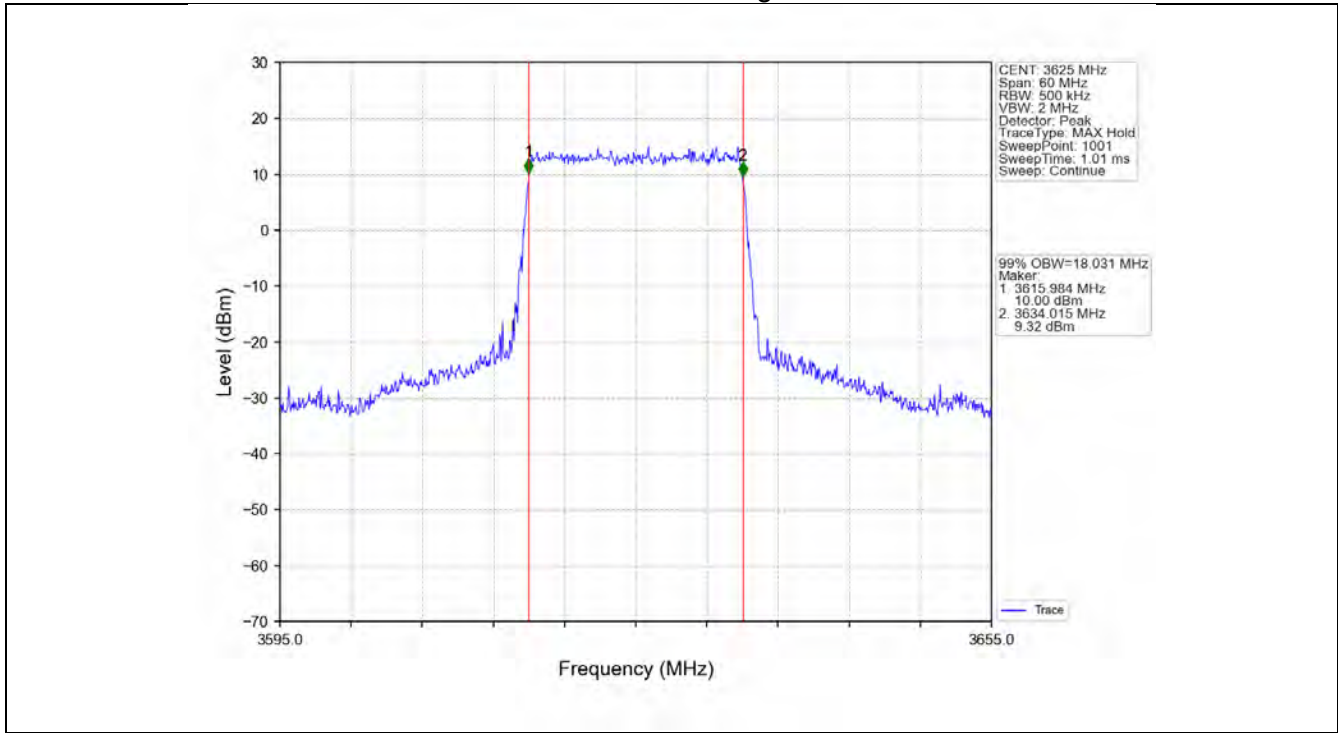
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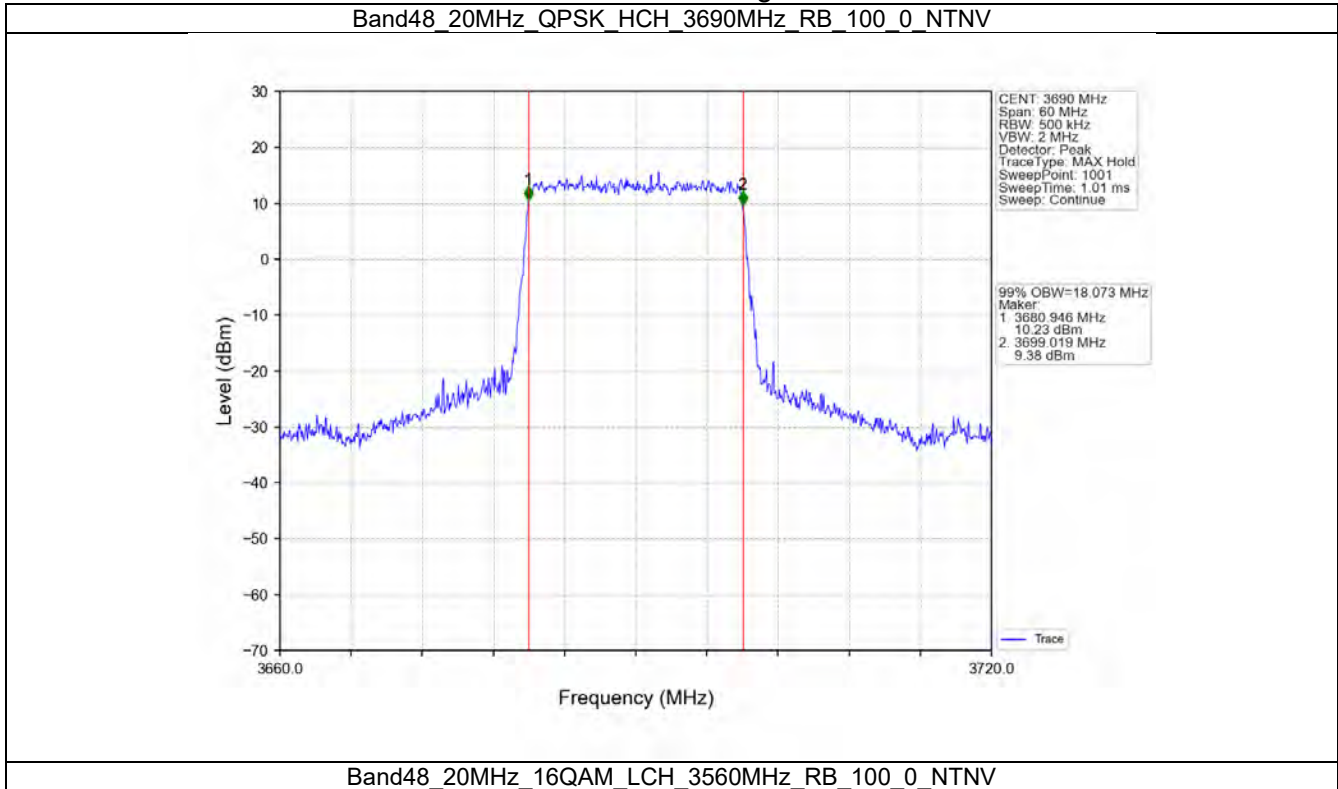
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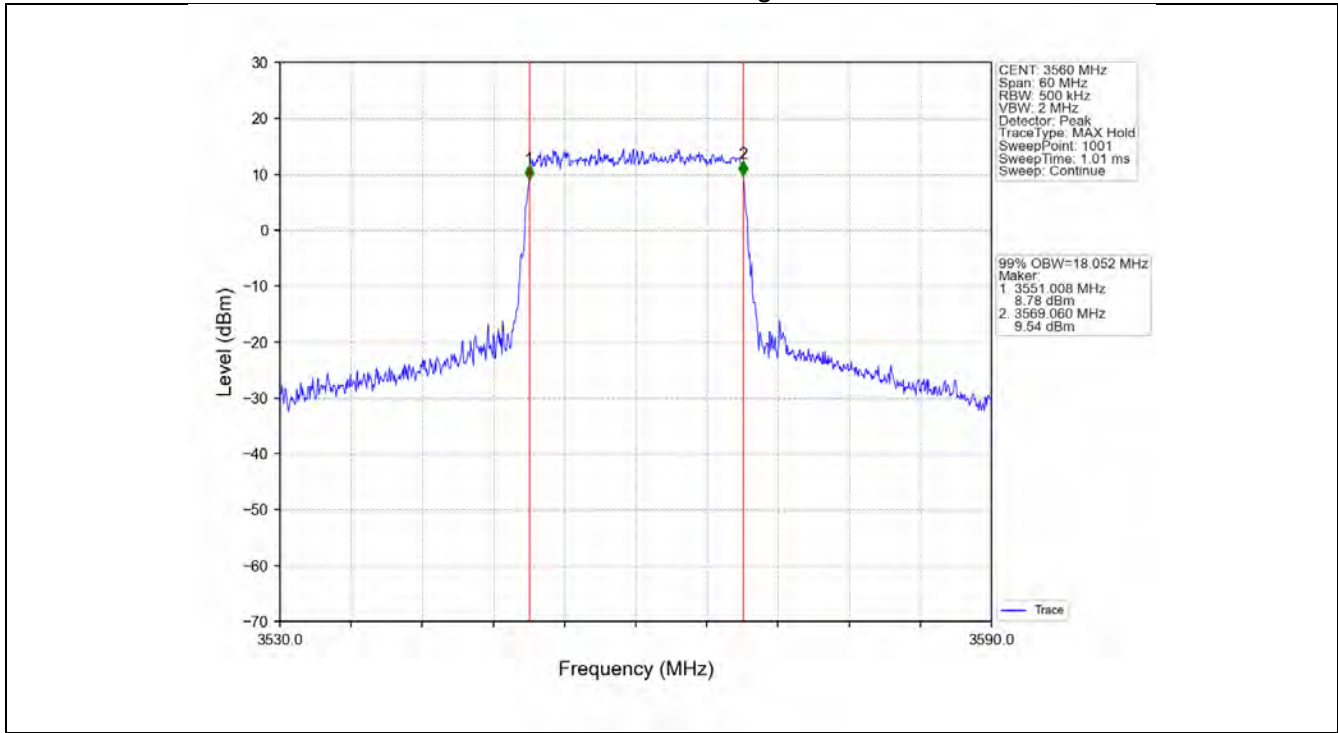


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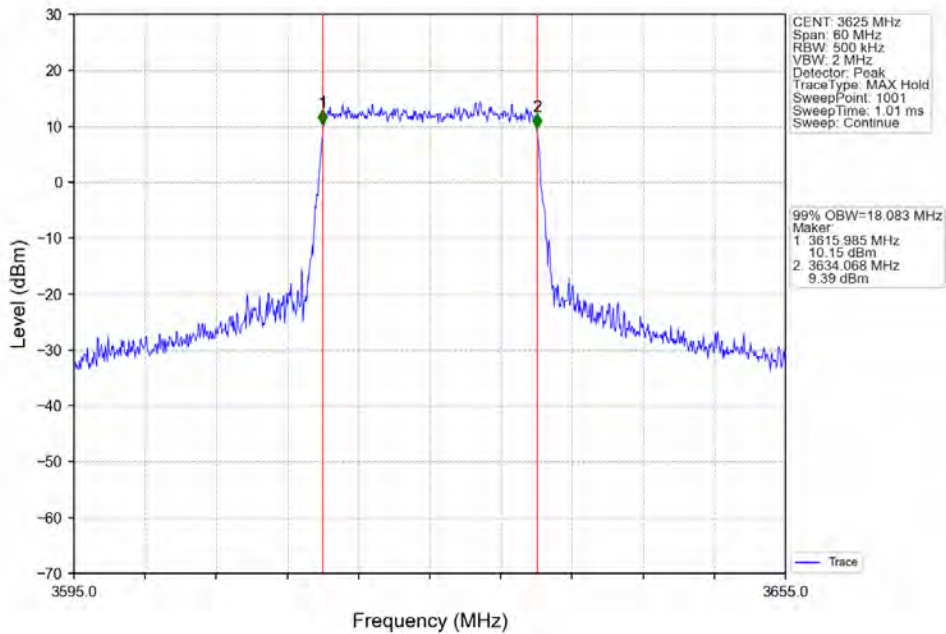


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Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



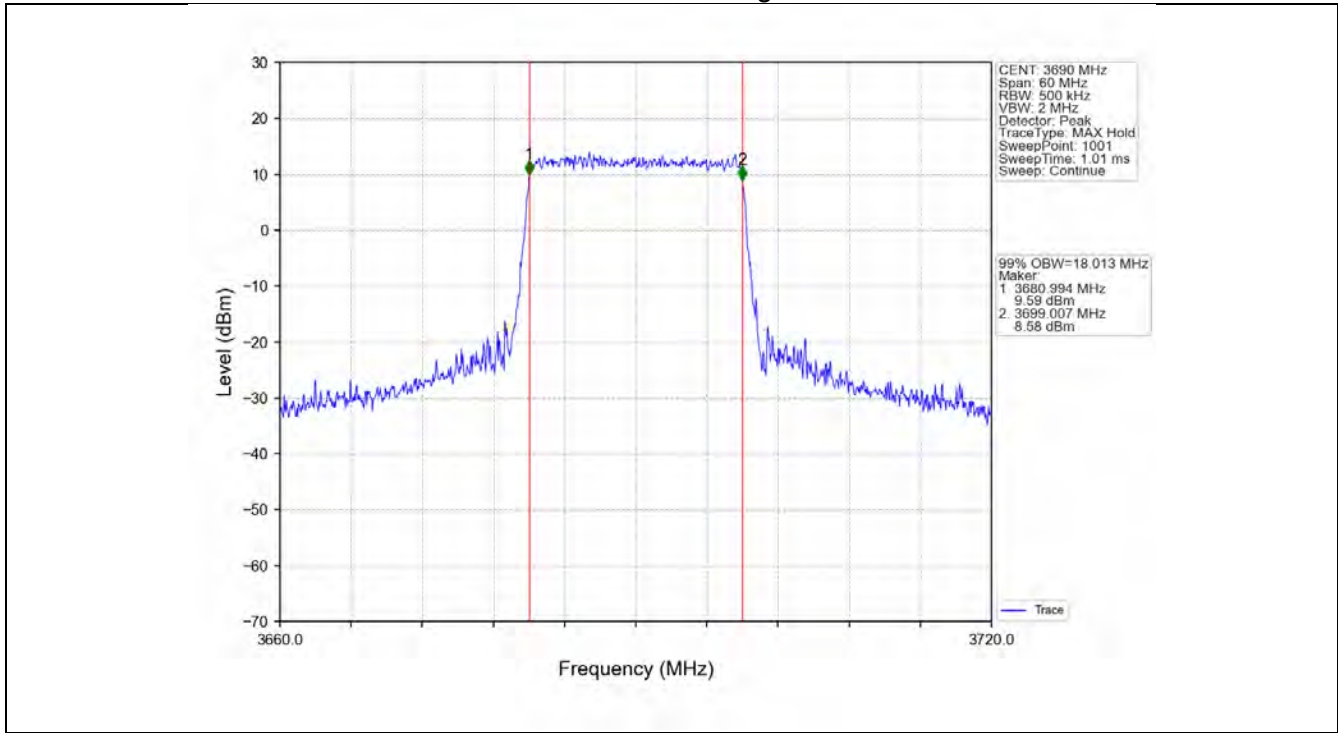
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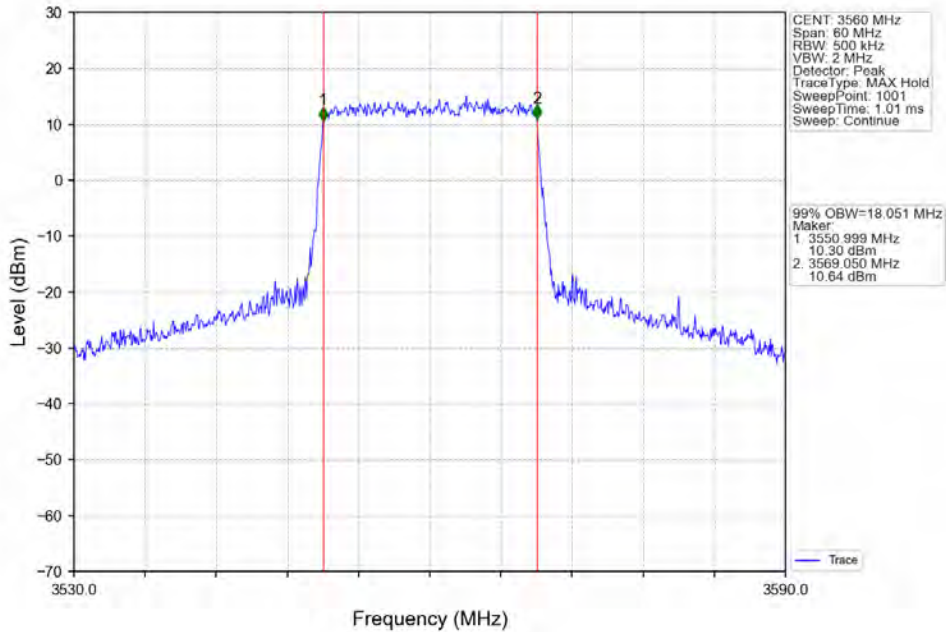


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Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



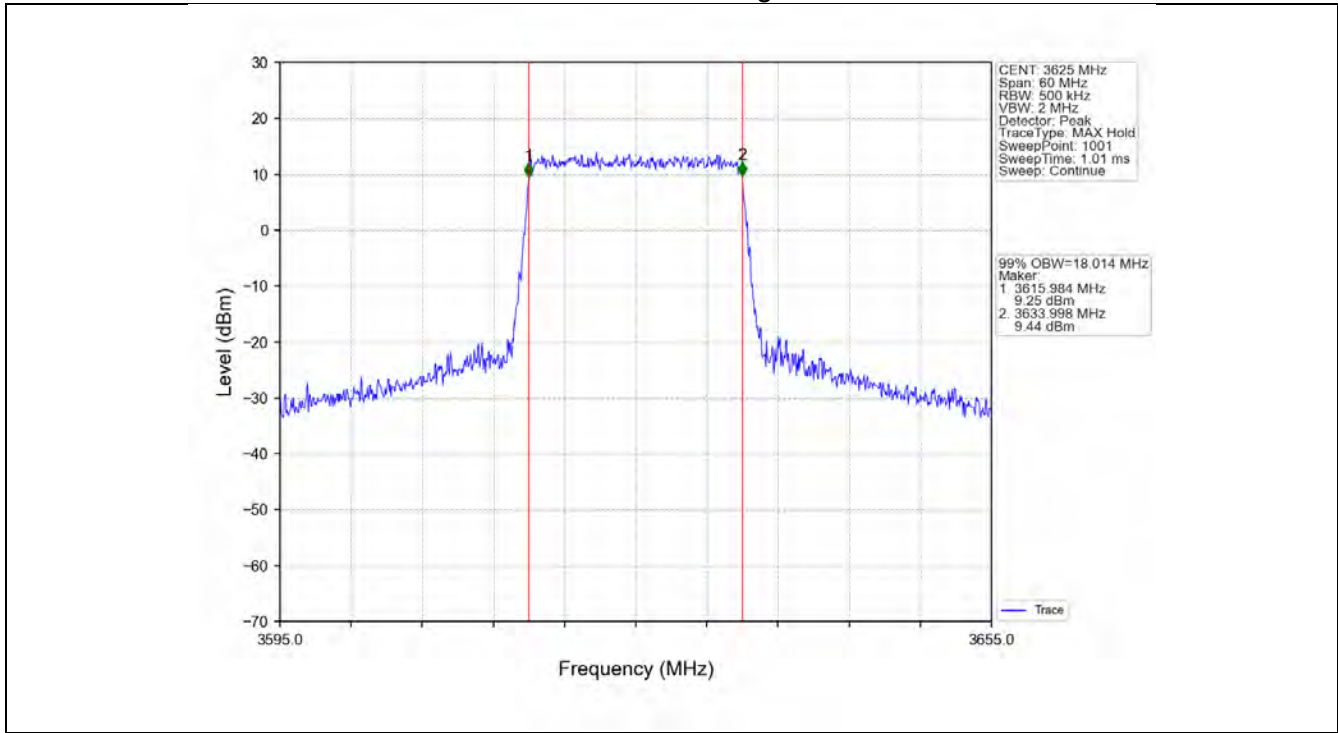
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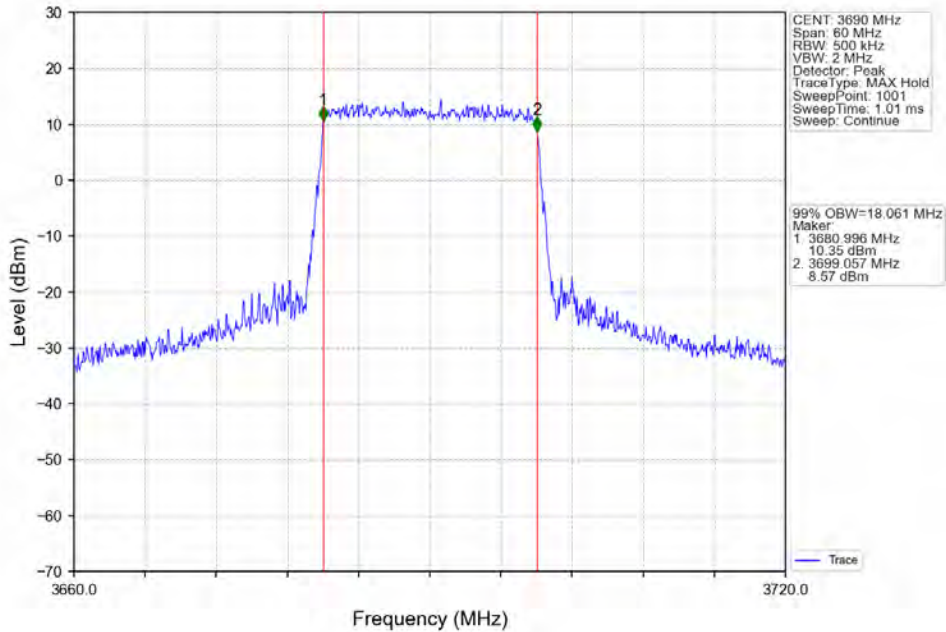


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Band48\_20MHz\_64QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



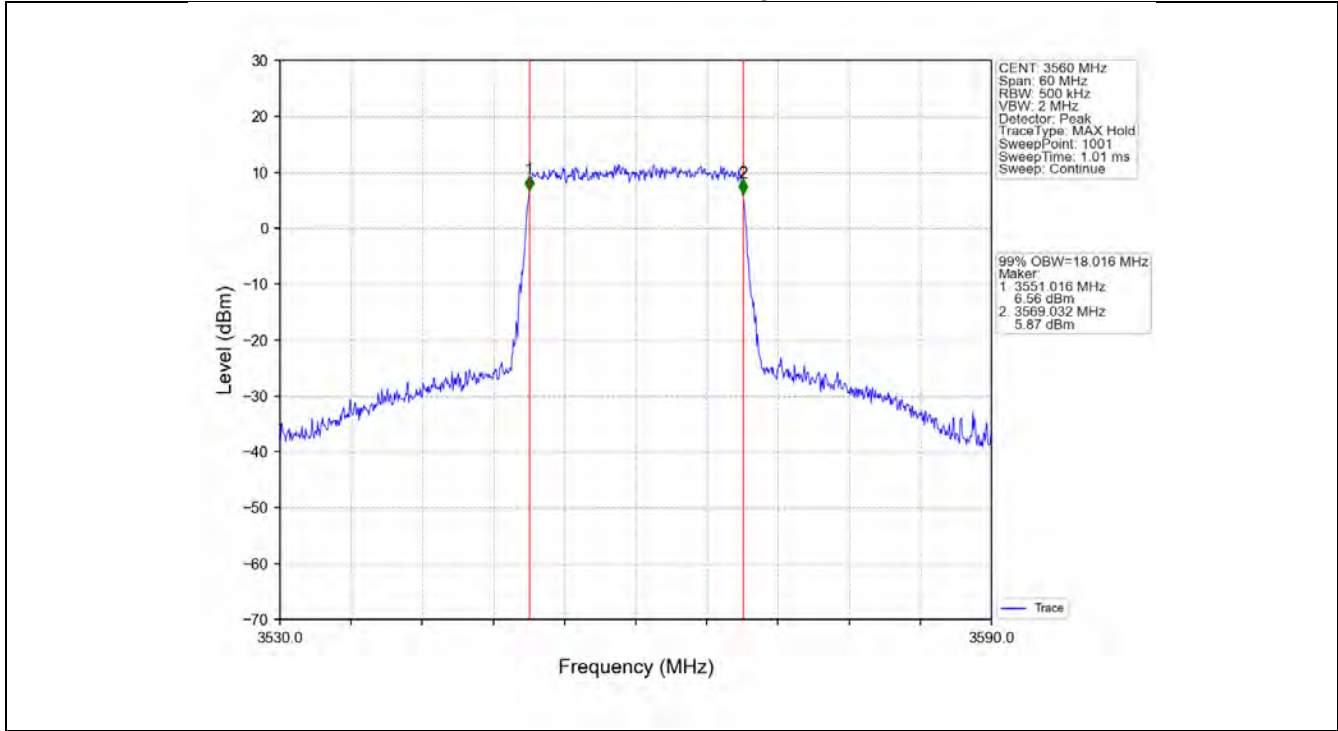
Band48\_20MHz\_256QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



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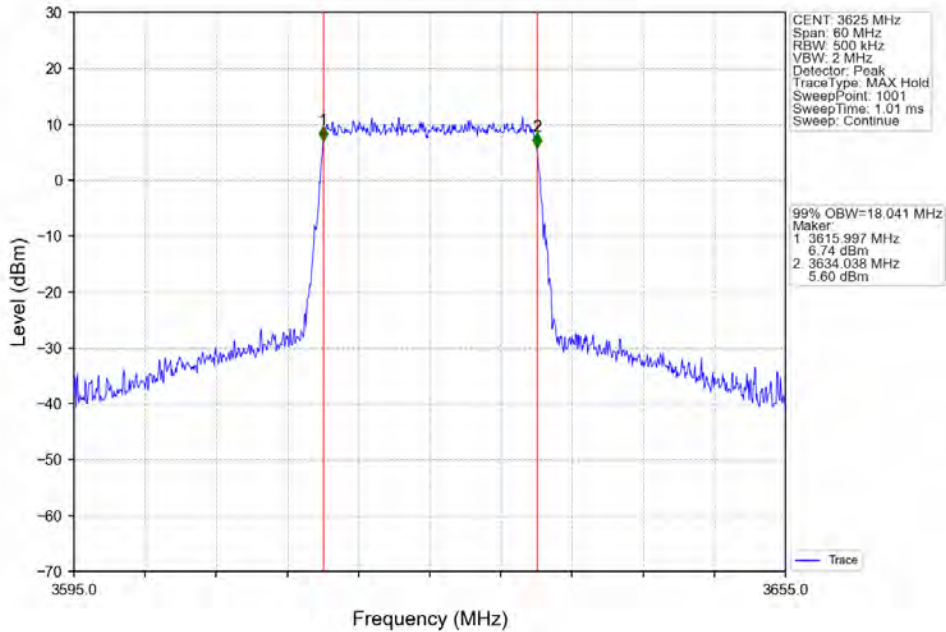


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Rev.: 01

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Band48\_20MHz\_256QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



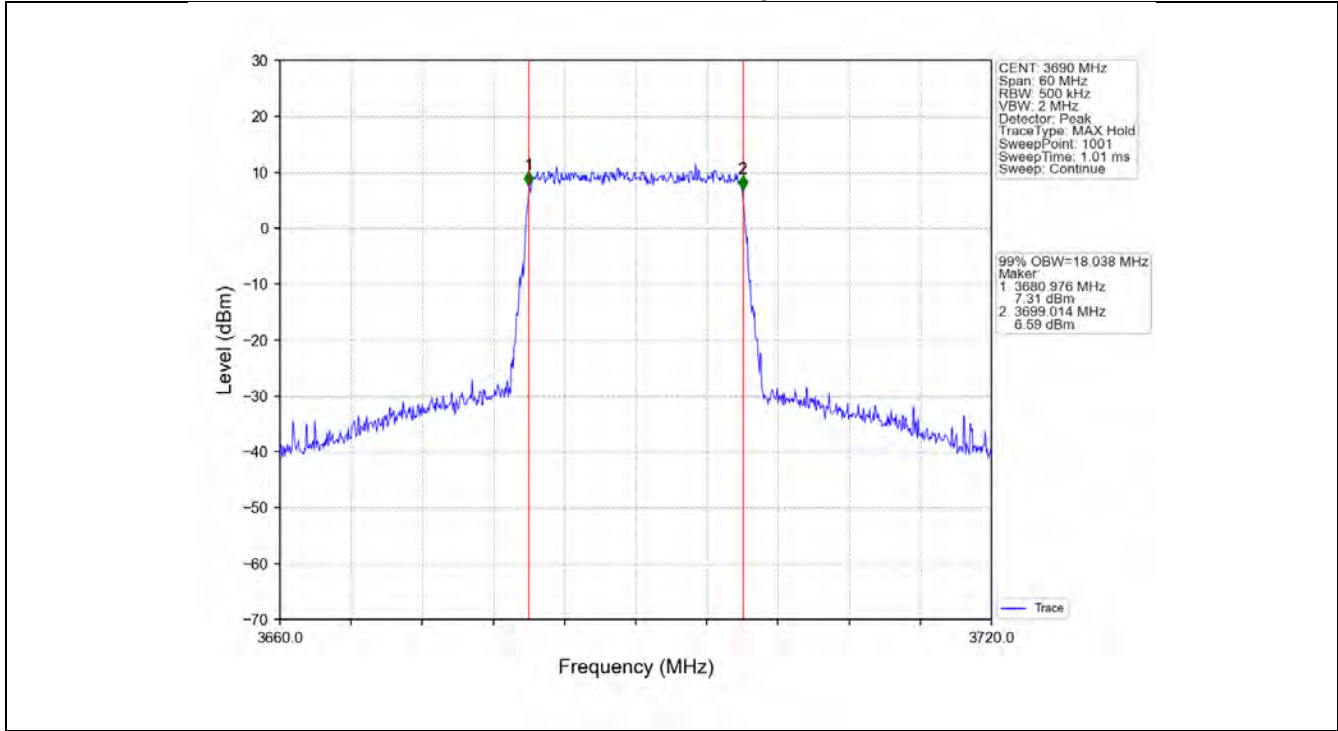
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3.2 Band48\_XDB

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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# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR240400009001

Rev.: 01

Page: 59 of 258

	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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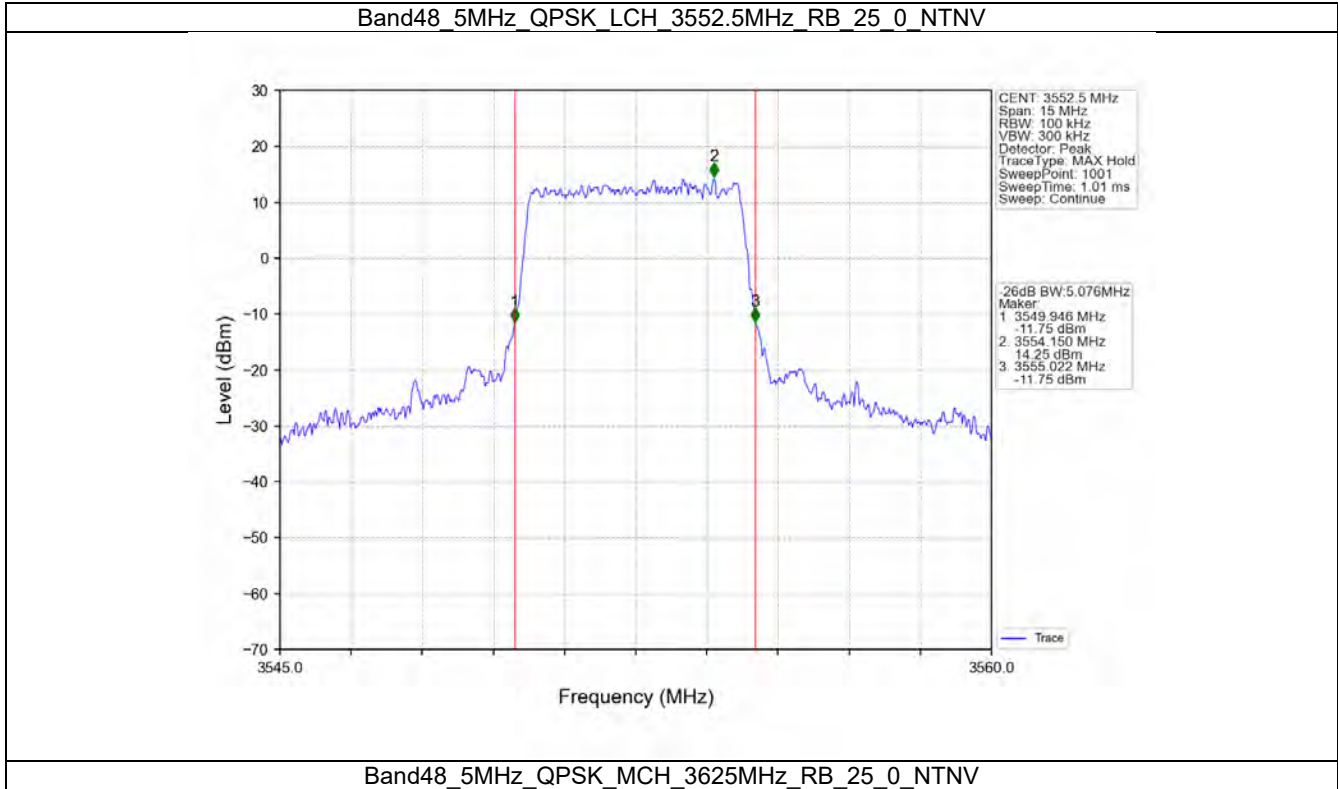
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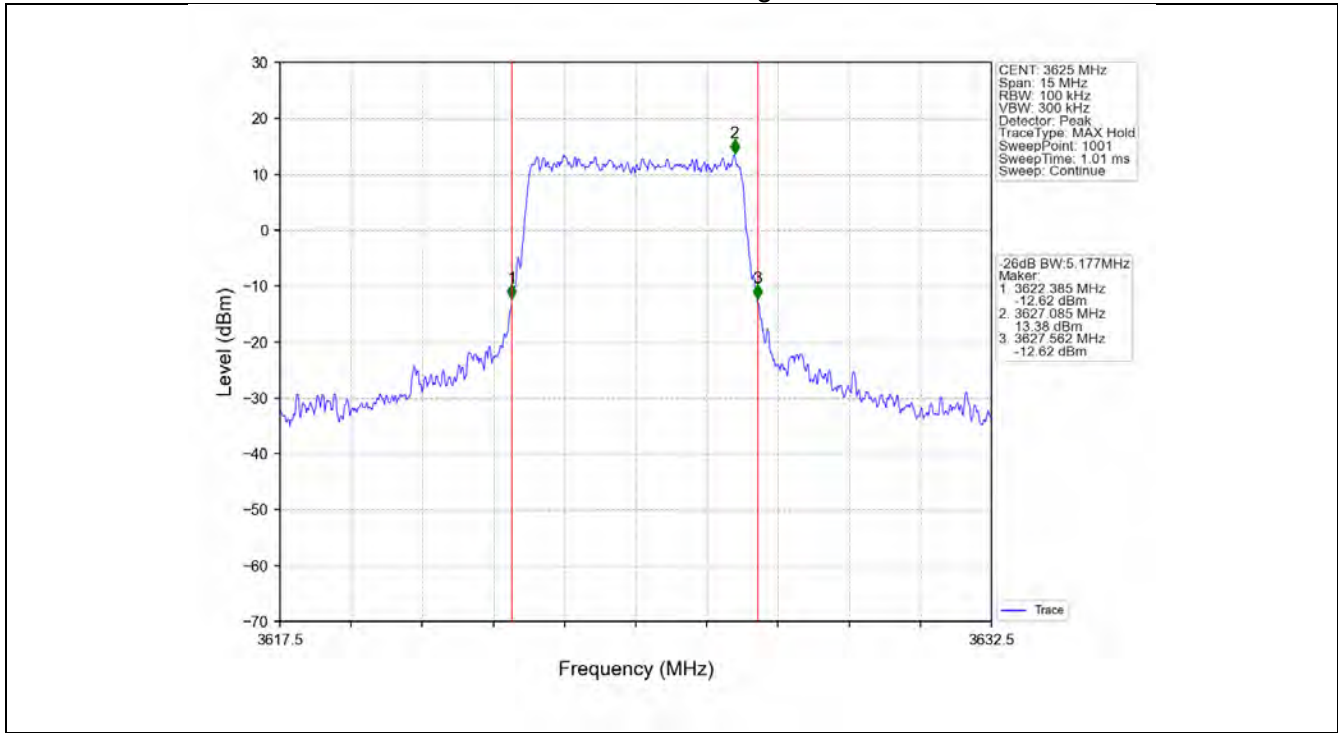
3.2.2 Test Graph



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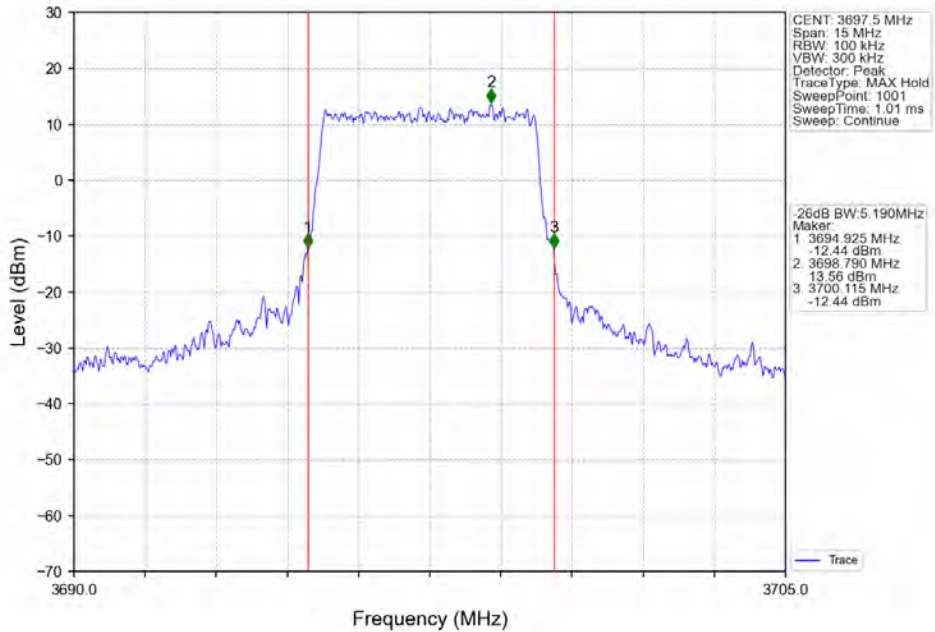
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



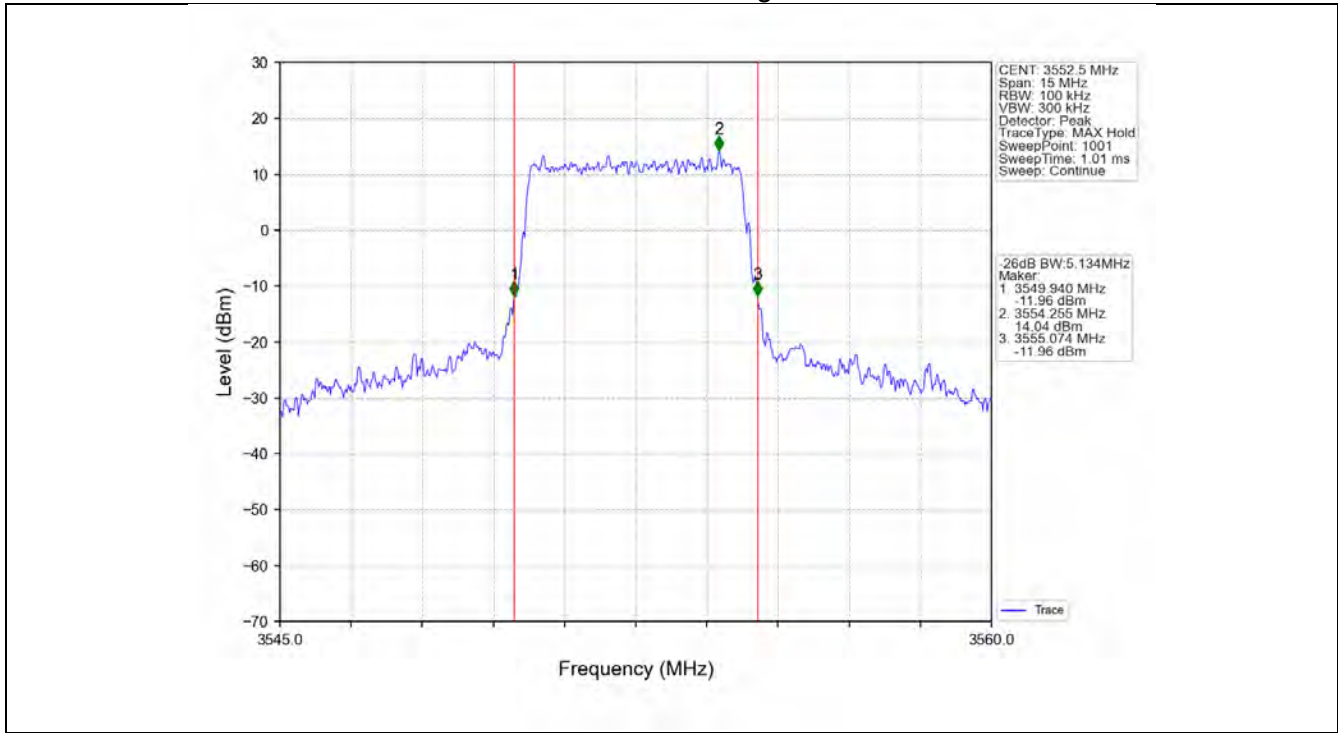
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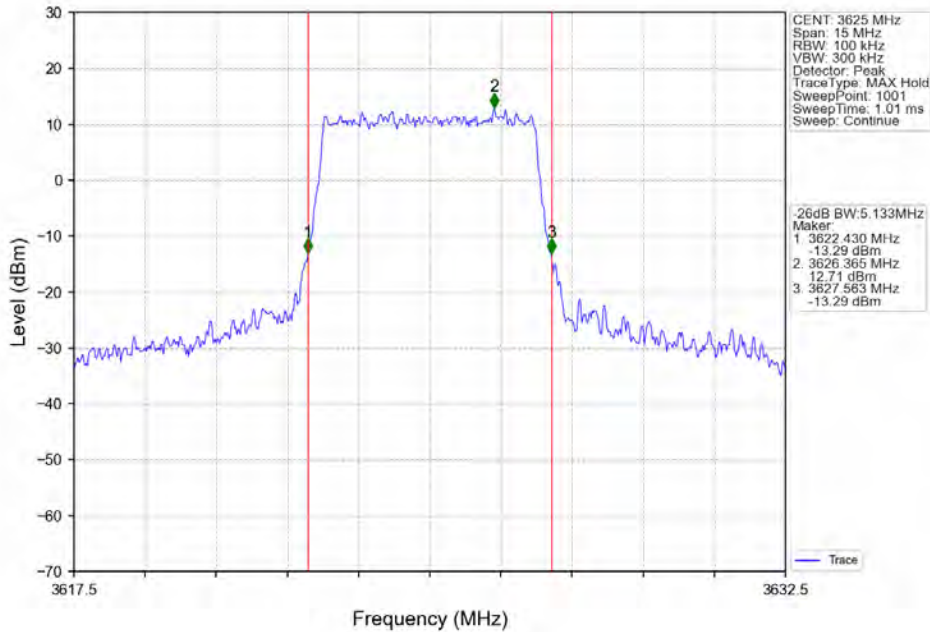


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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



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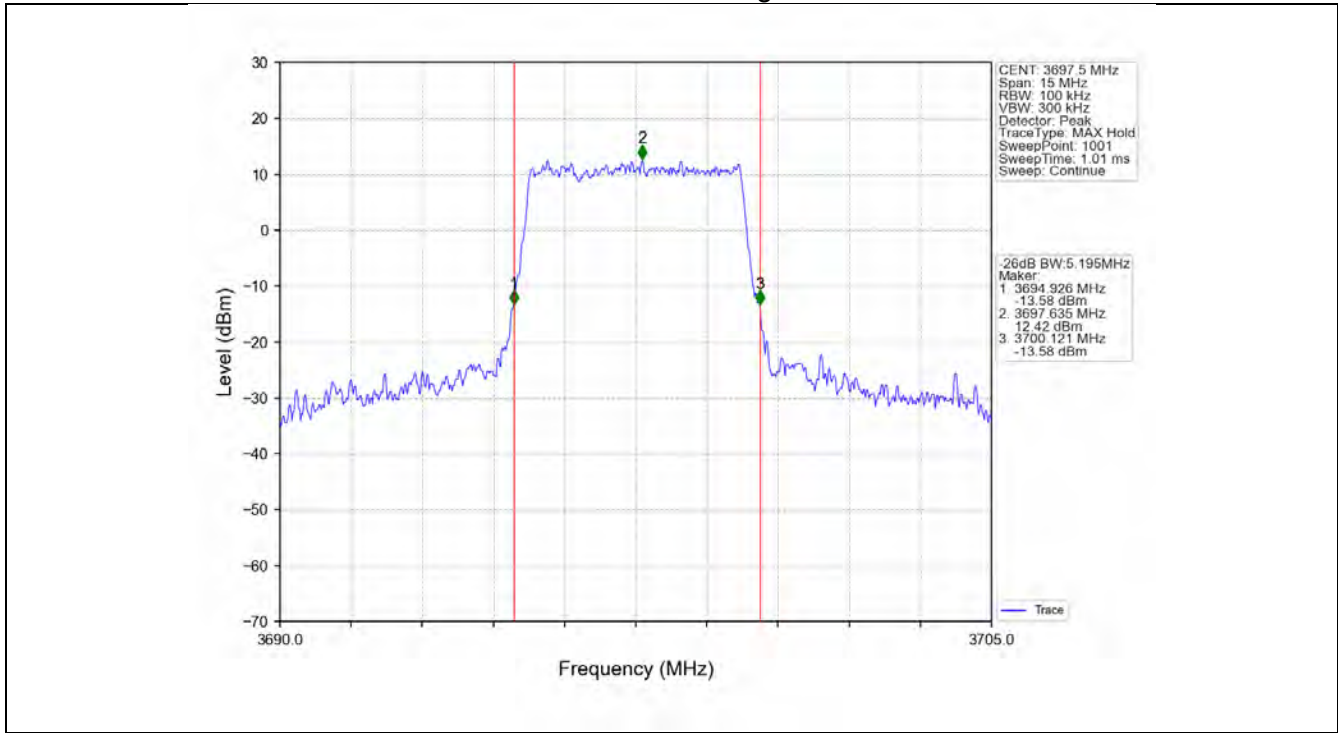
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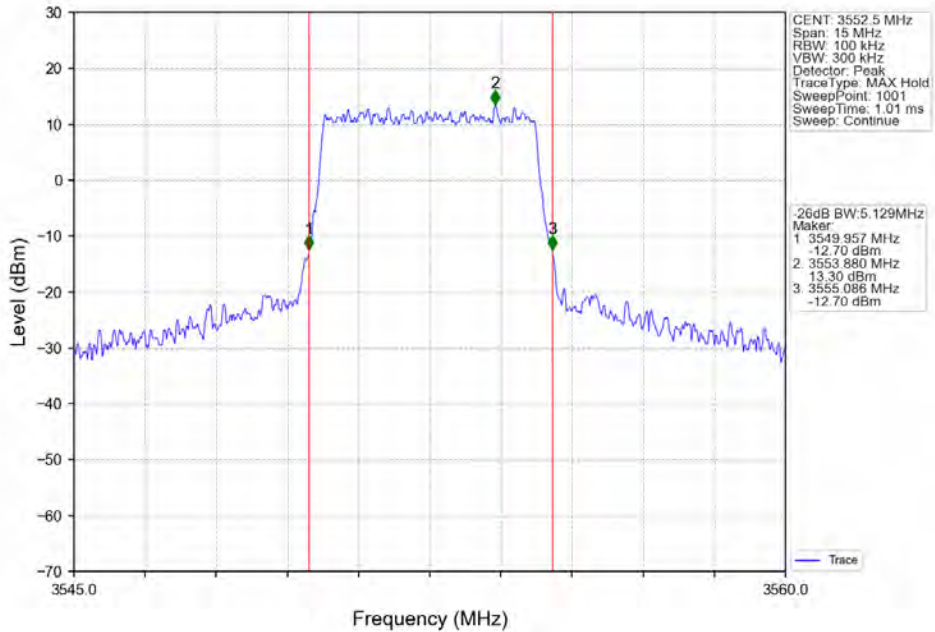


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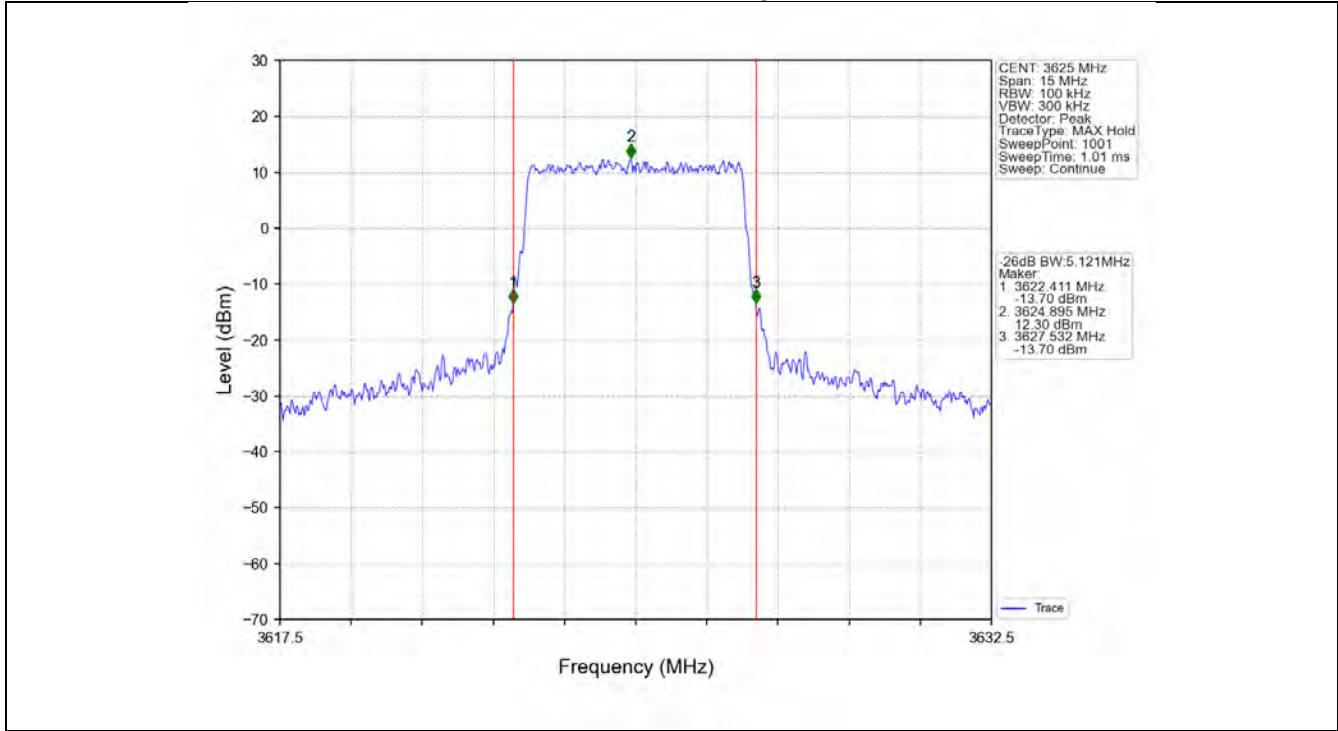
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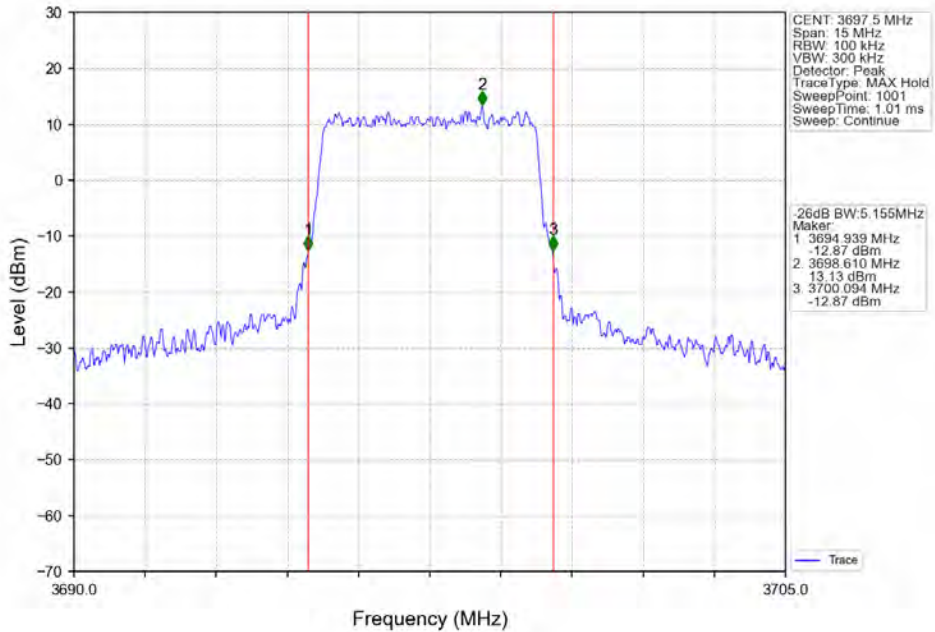


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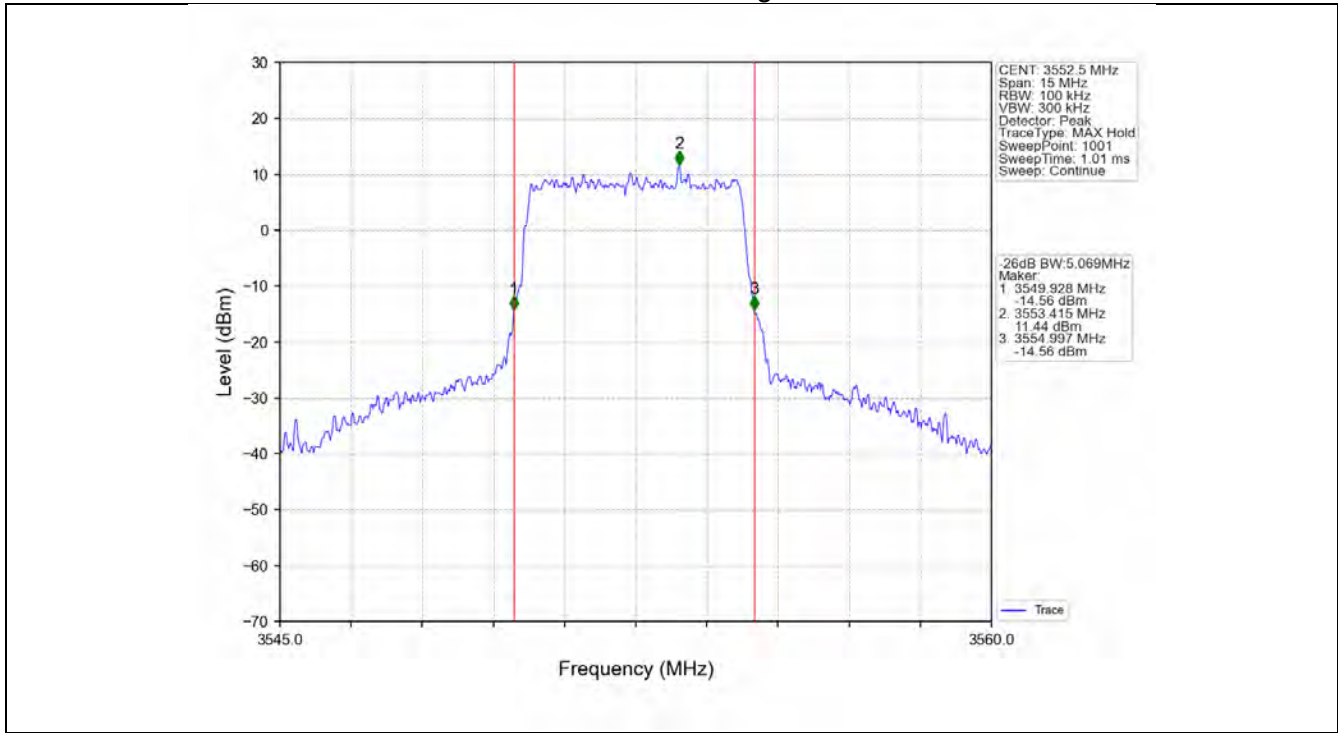
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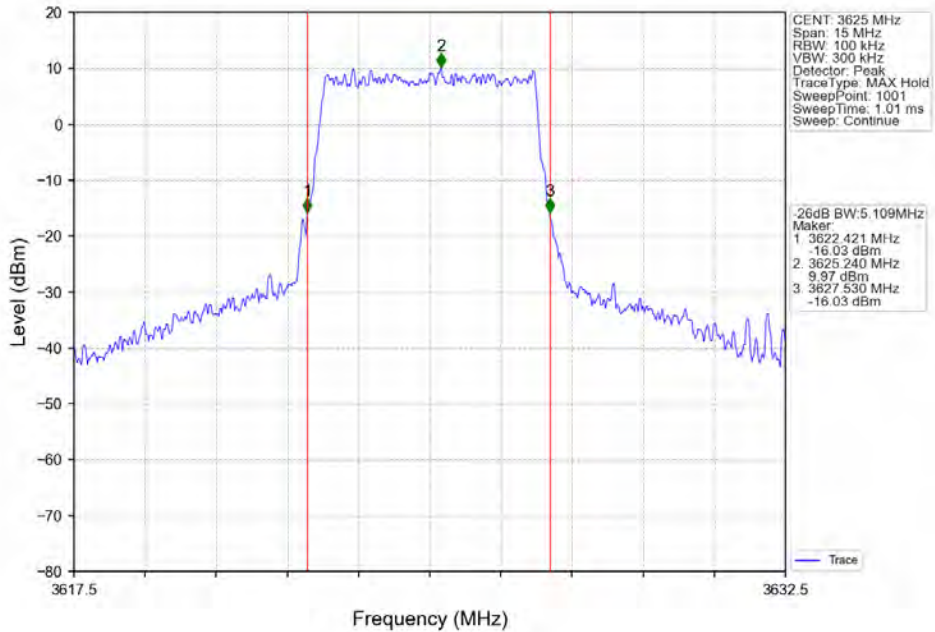


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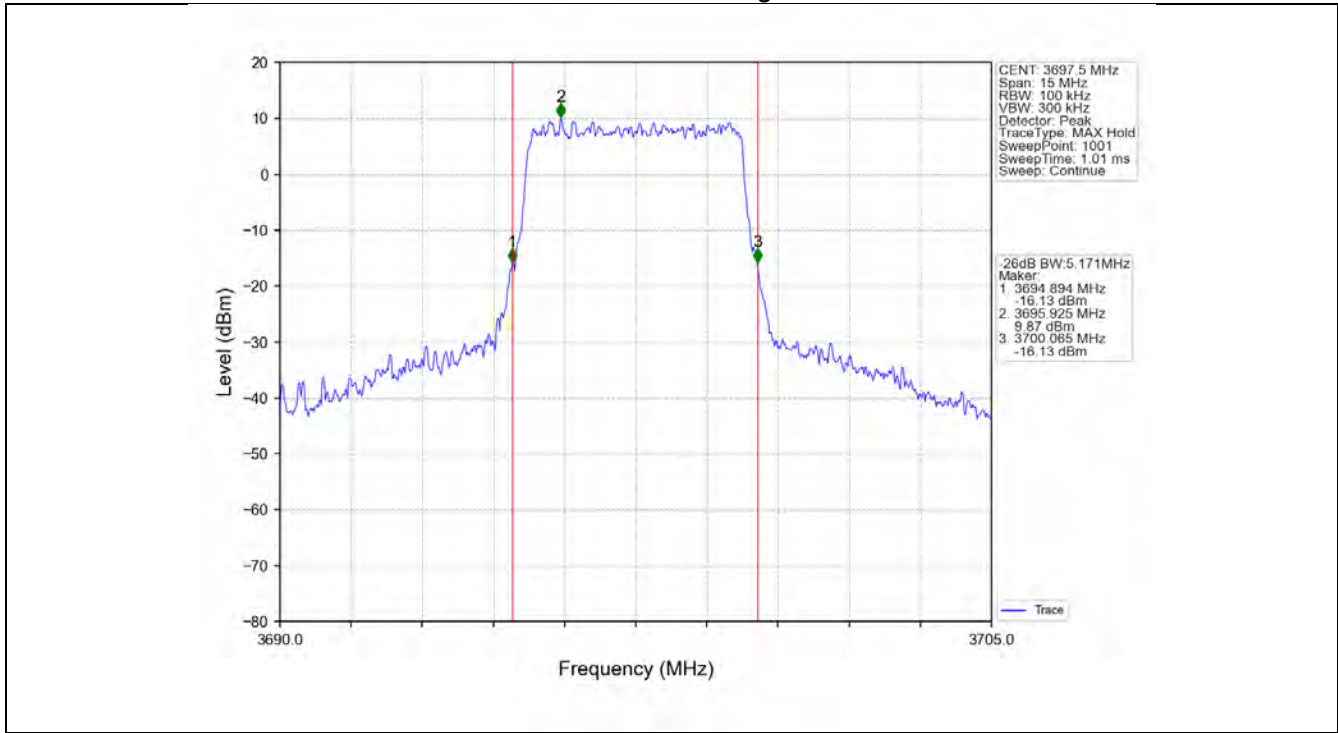
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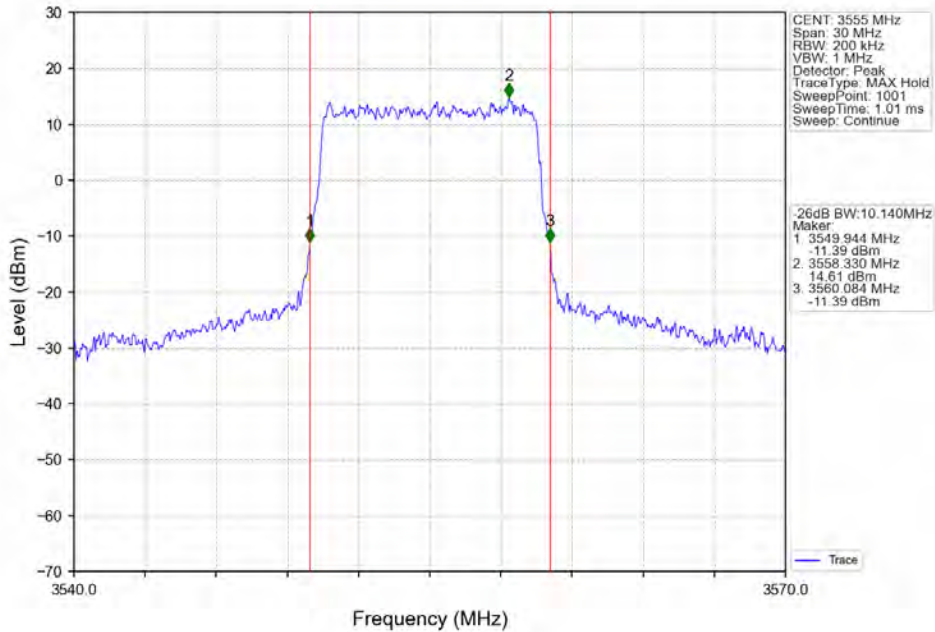
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Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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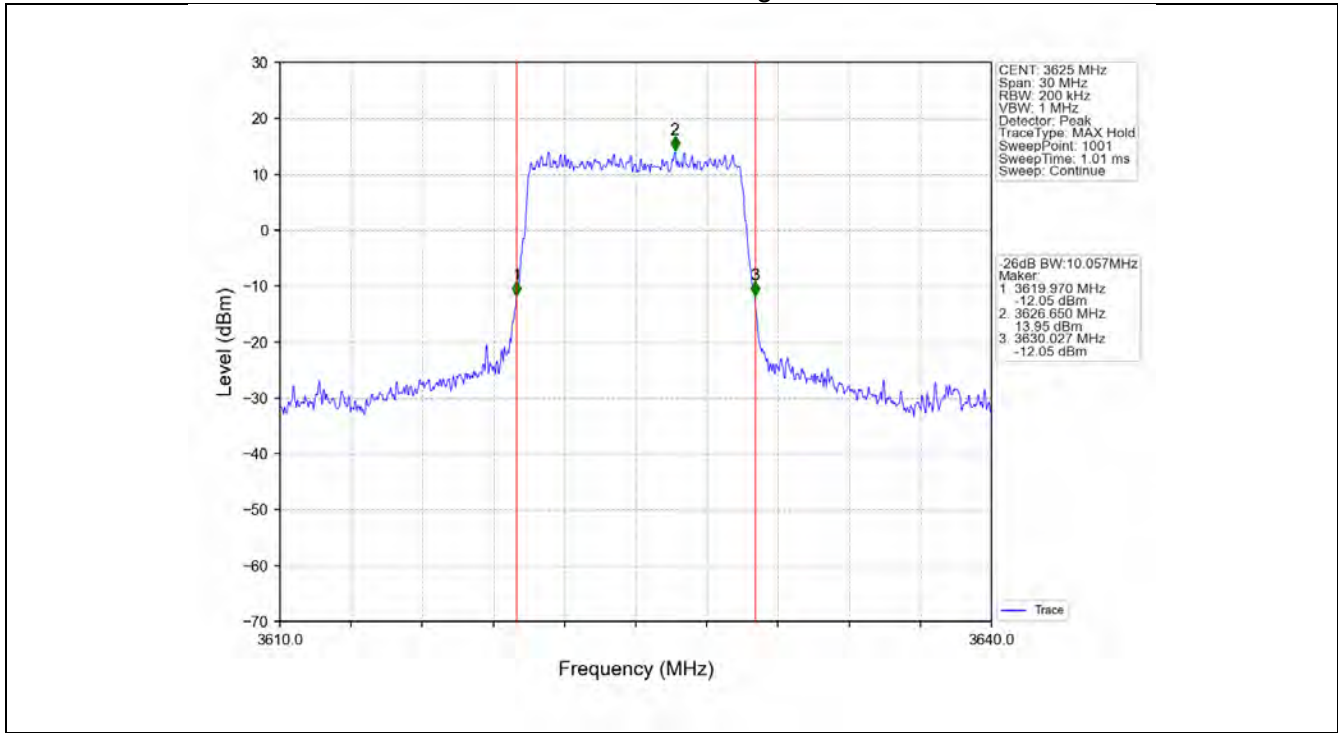
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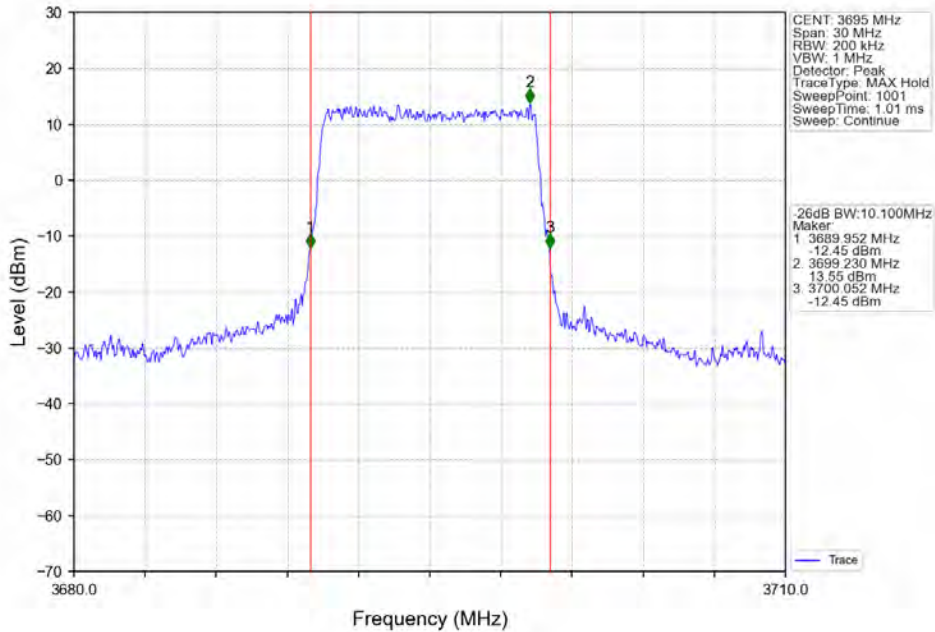


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Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



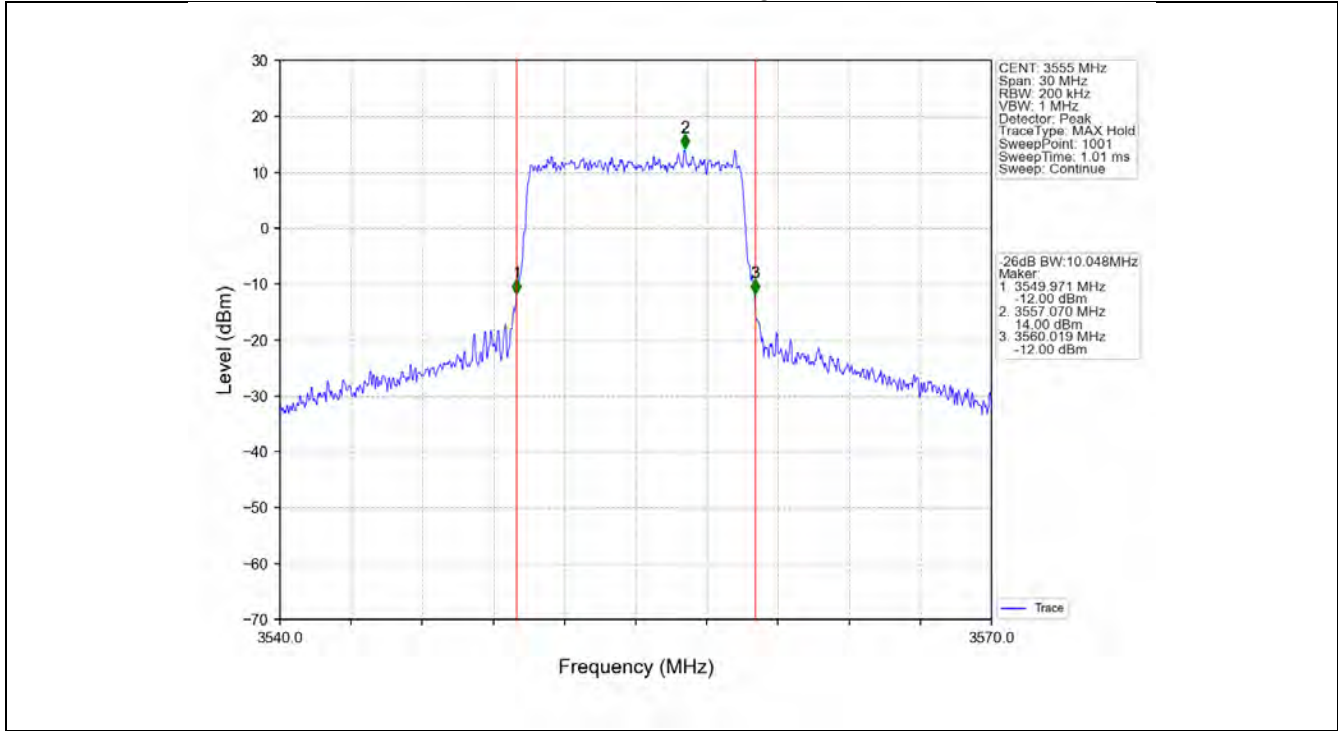
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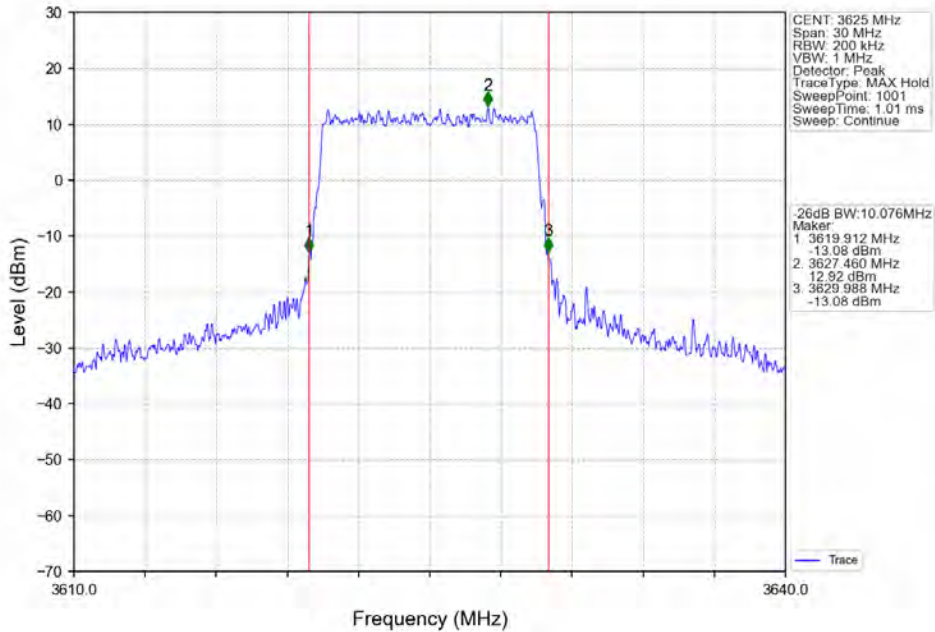


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Band48 10MHz 16QAM\_MCH 3625MHz RB 50 0 NTN



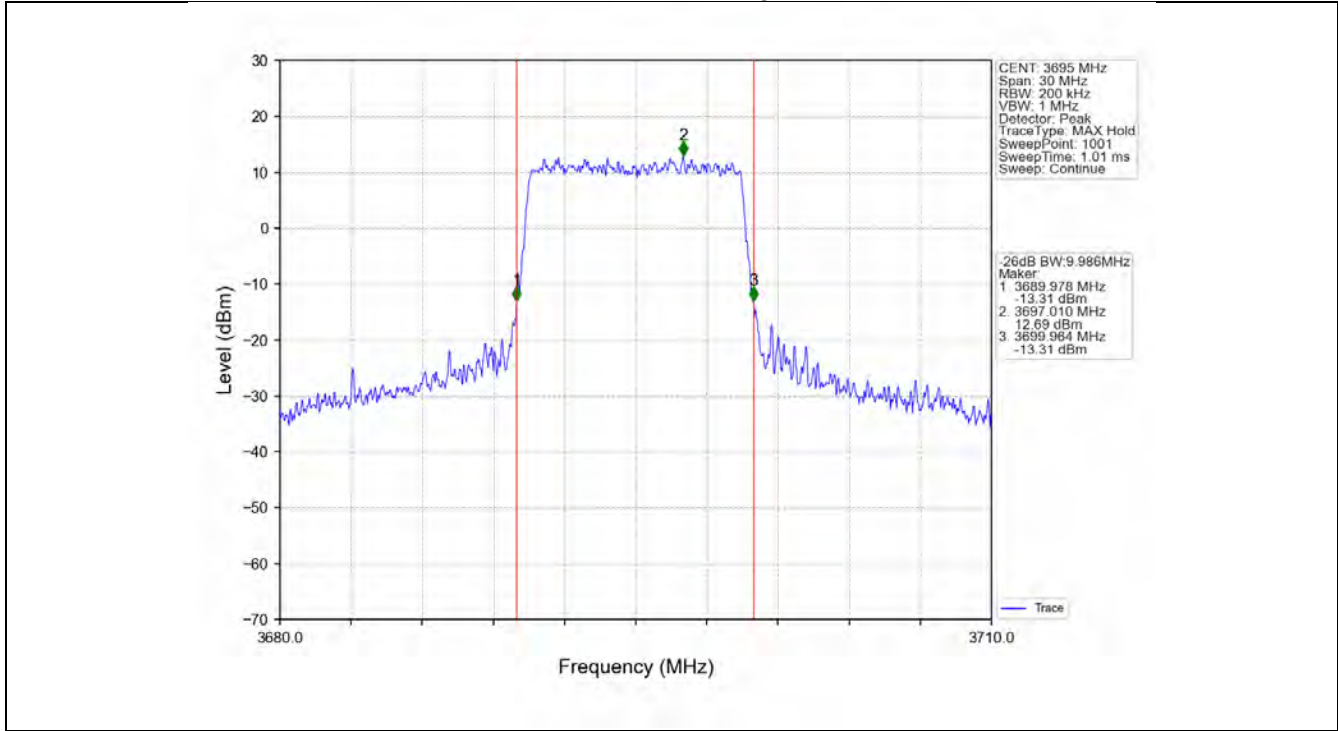
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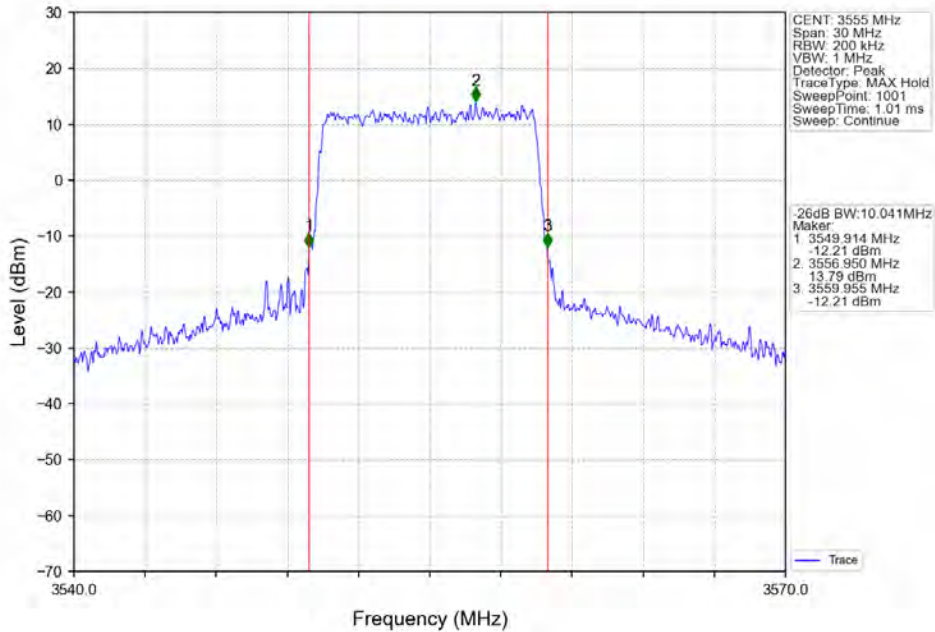


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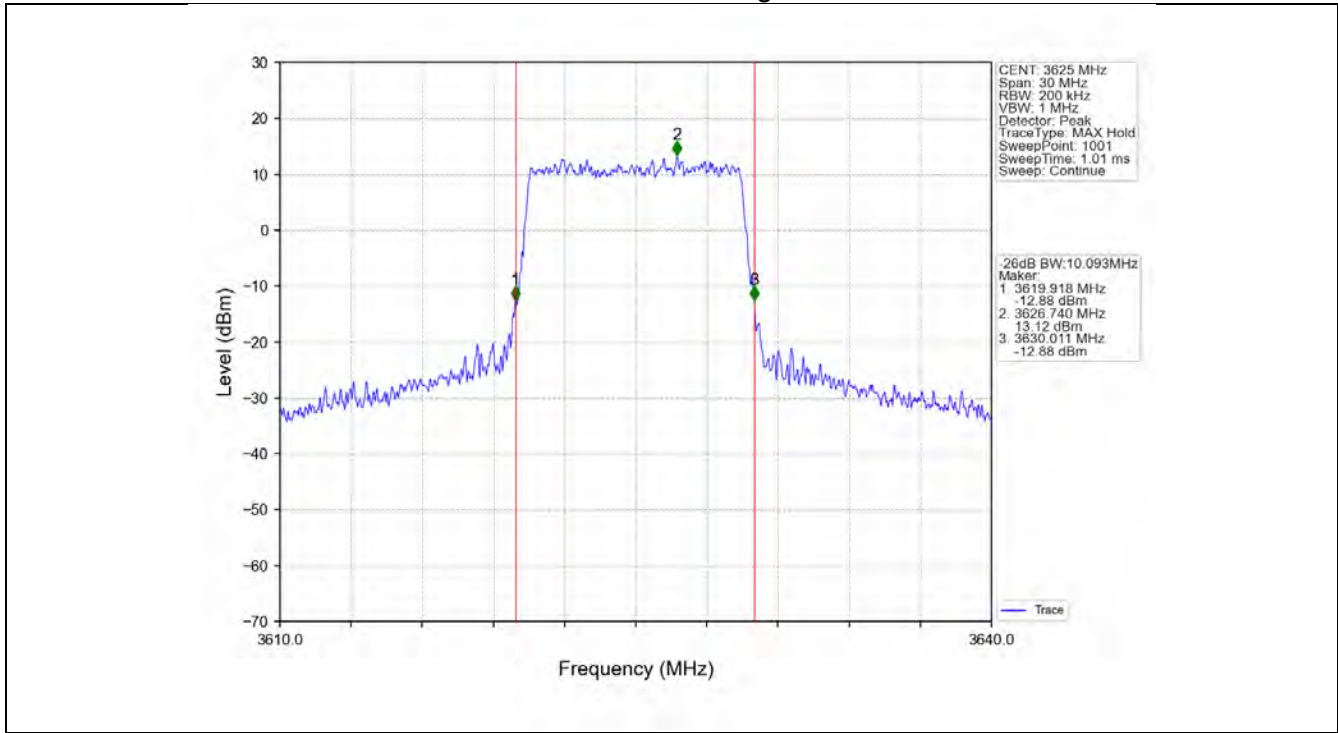
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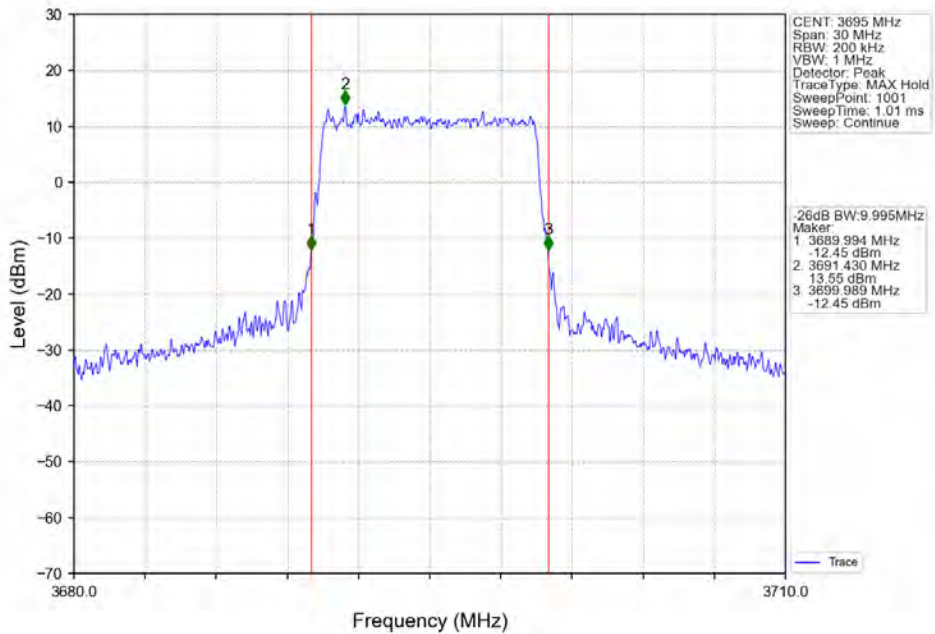


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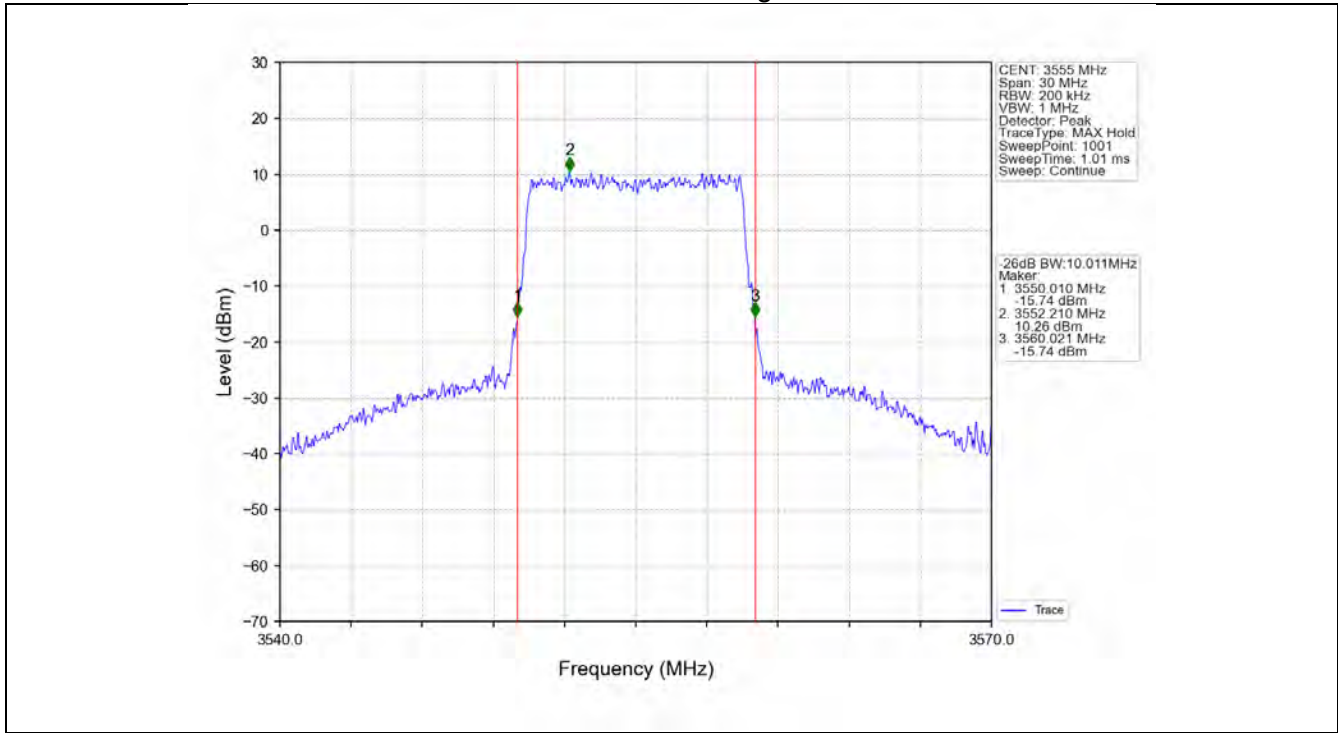


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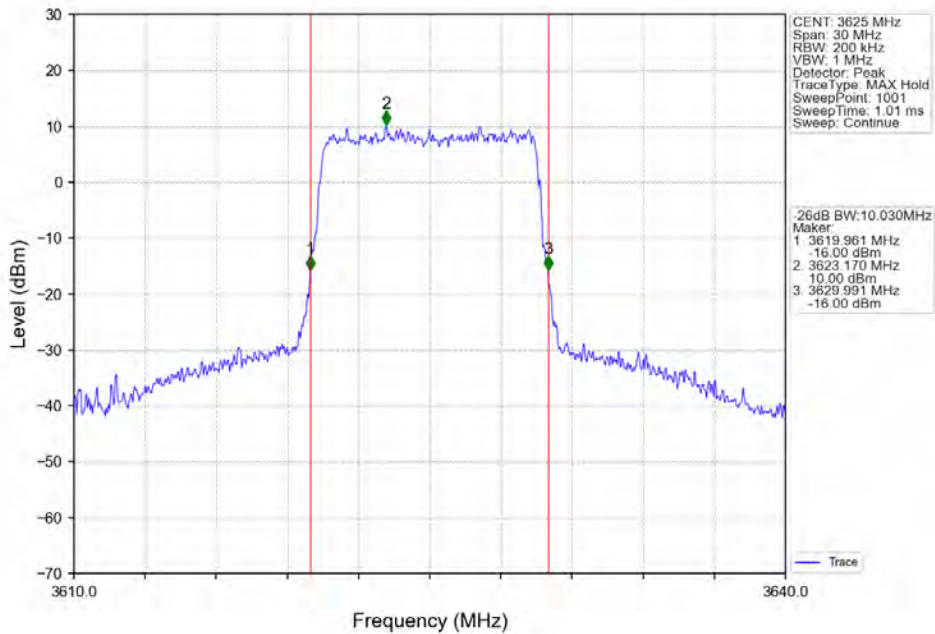


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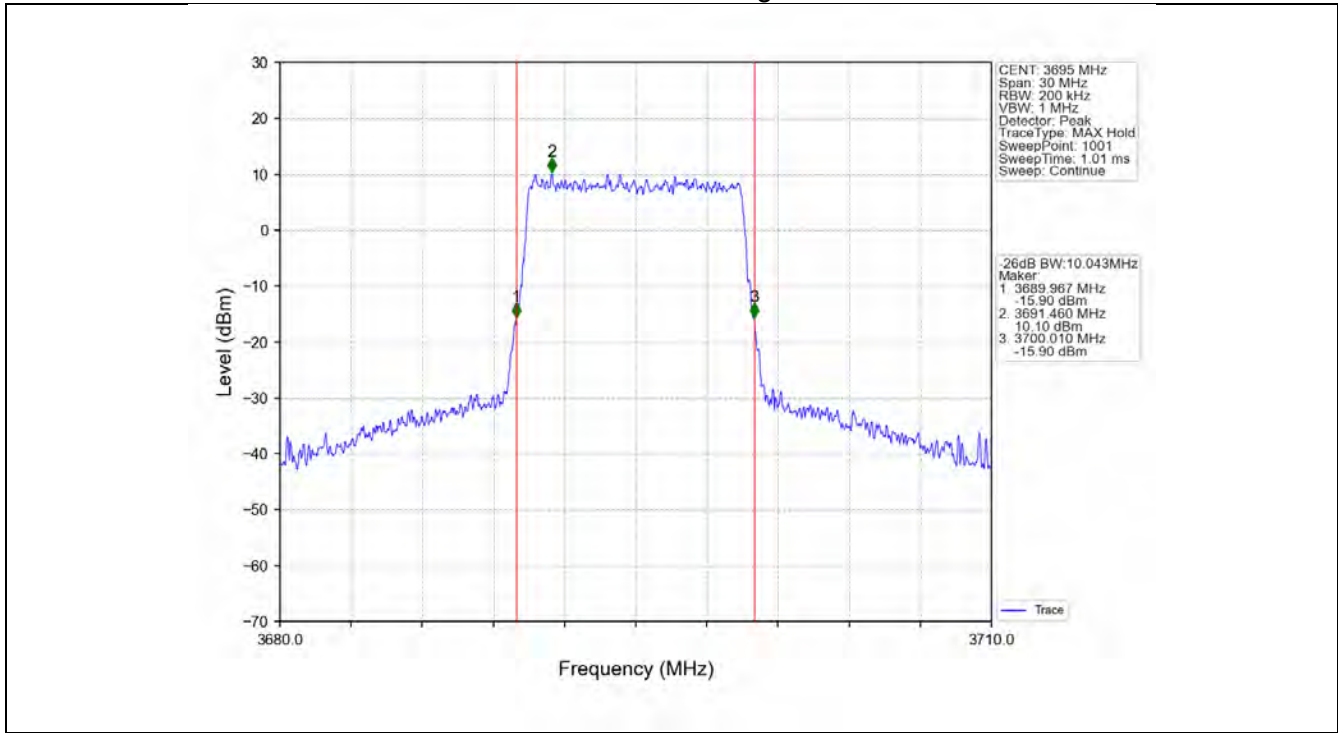
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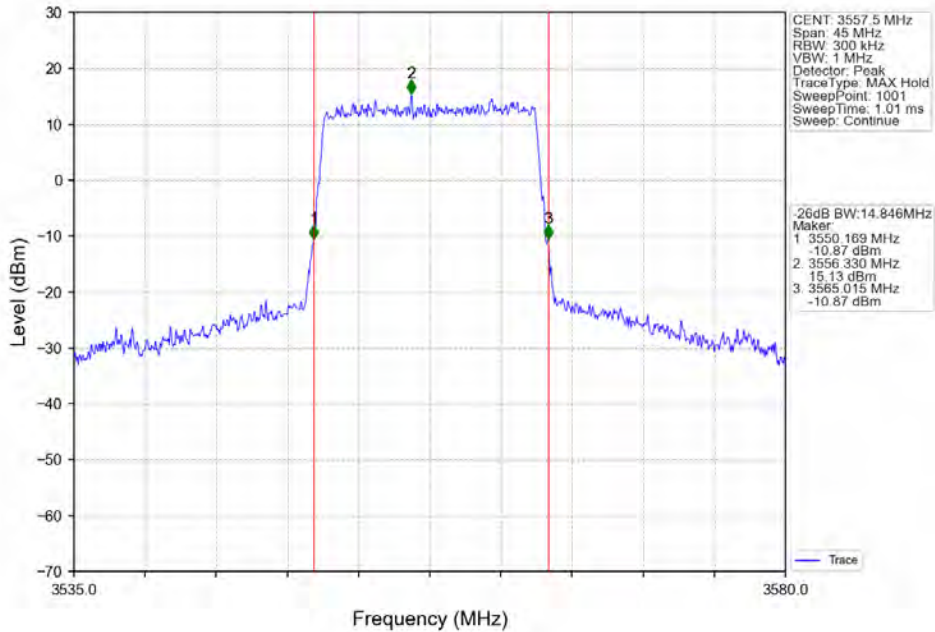


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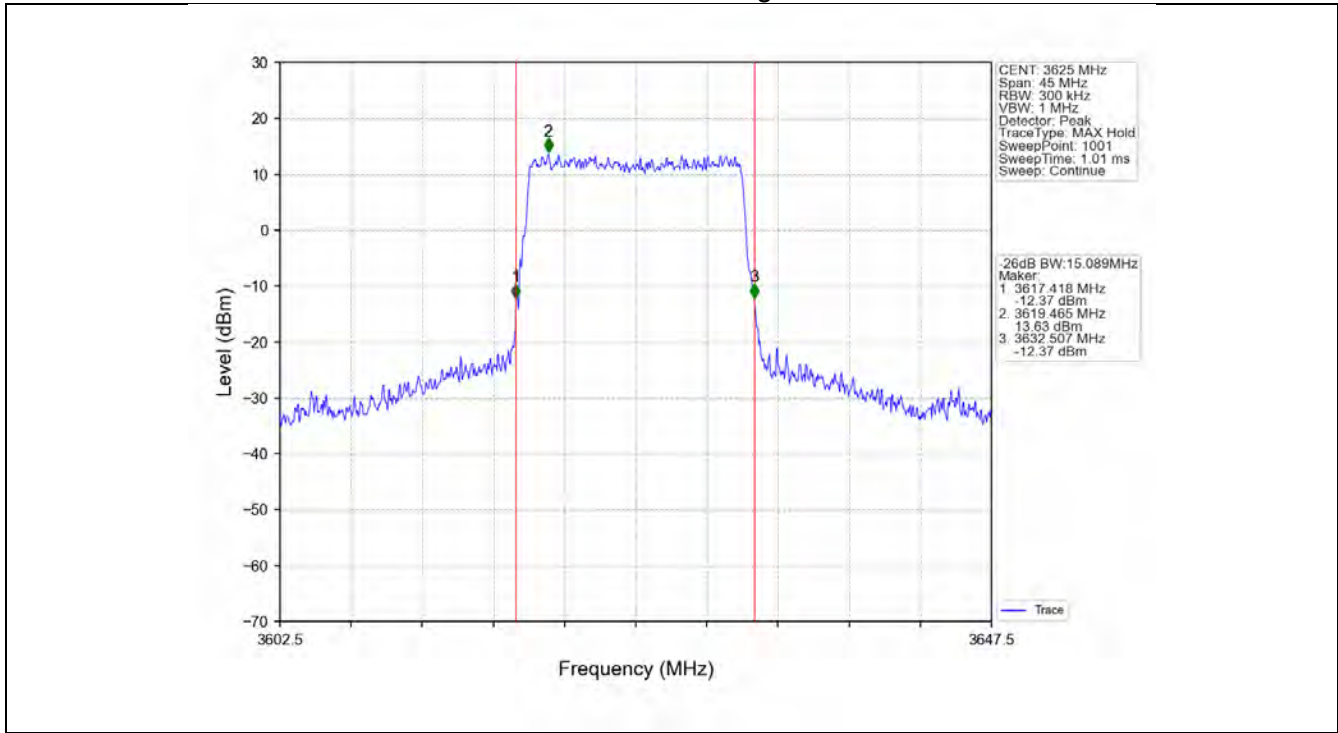
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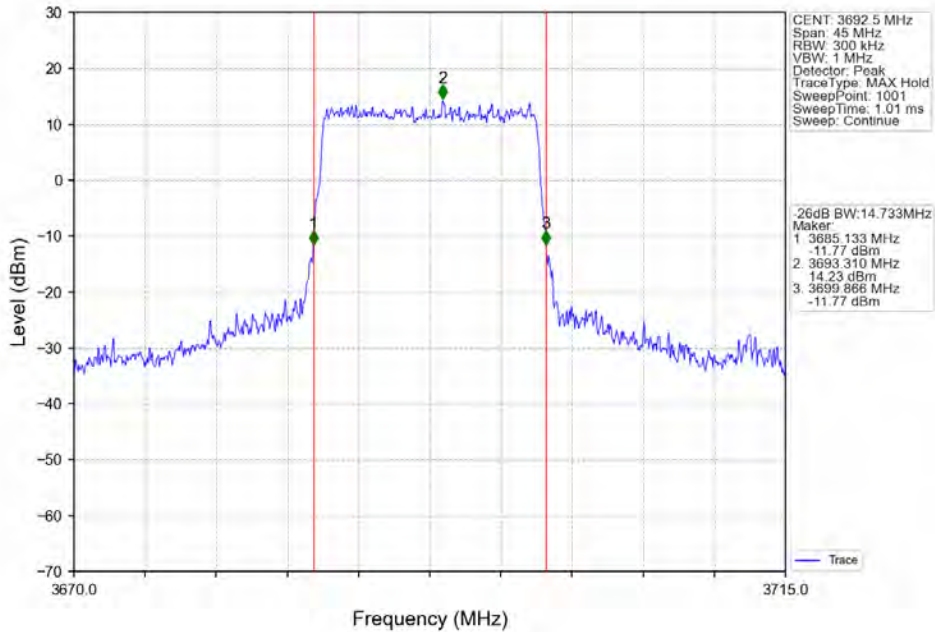


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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



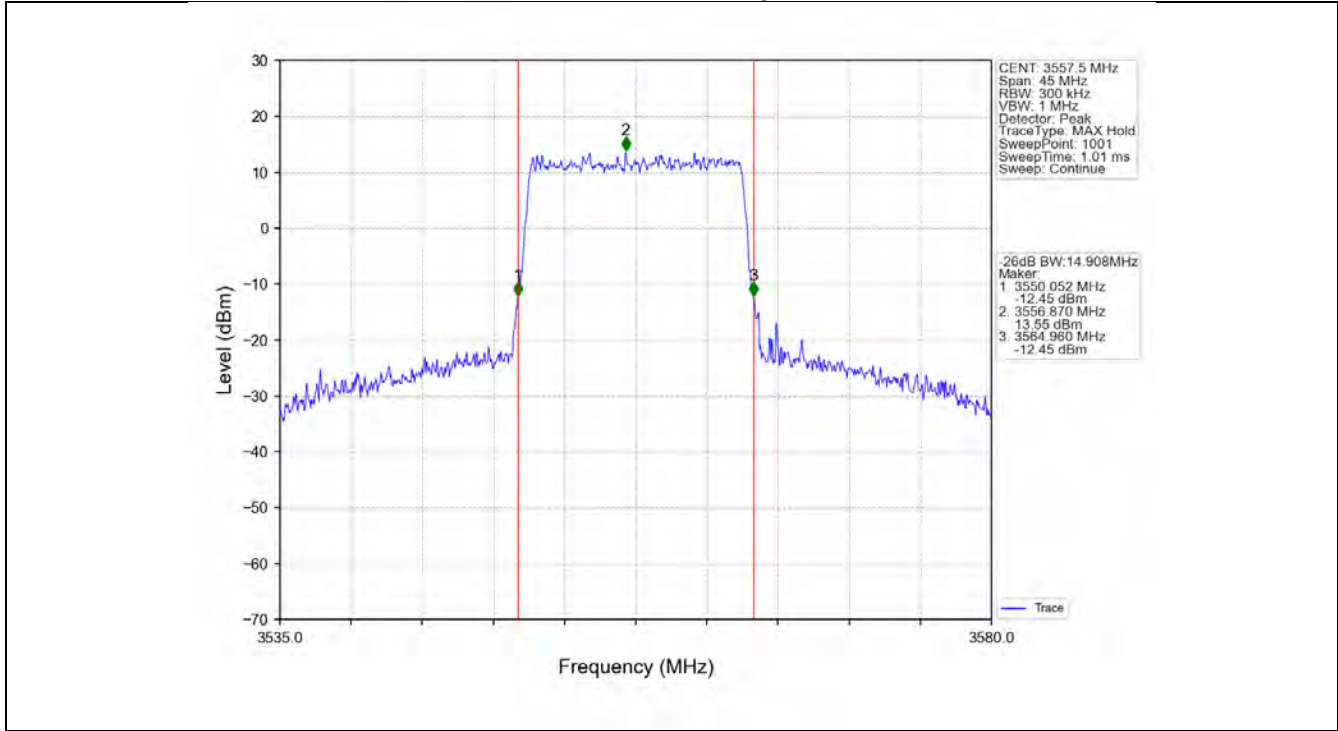
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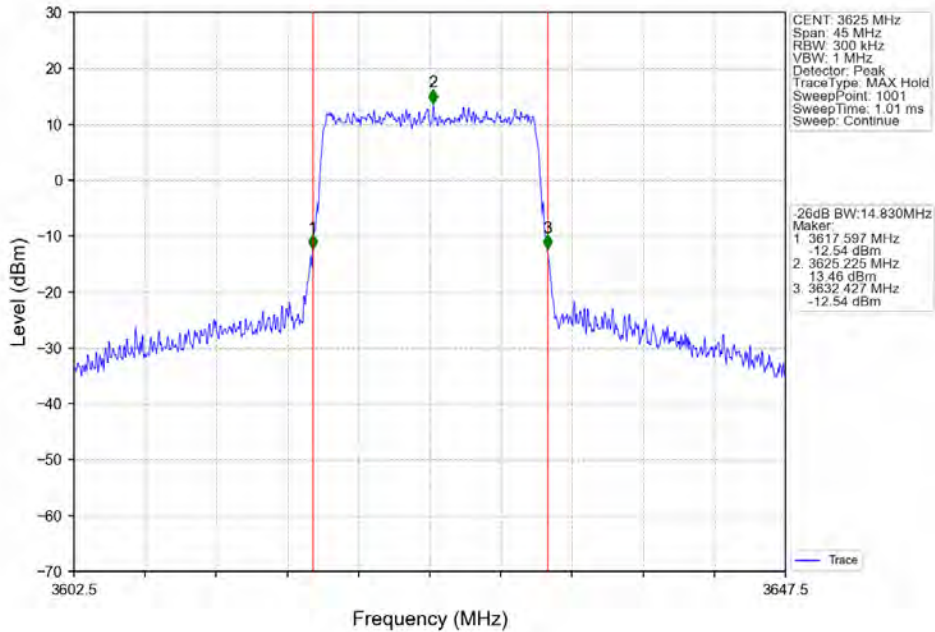


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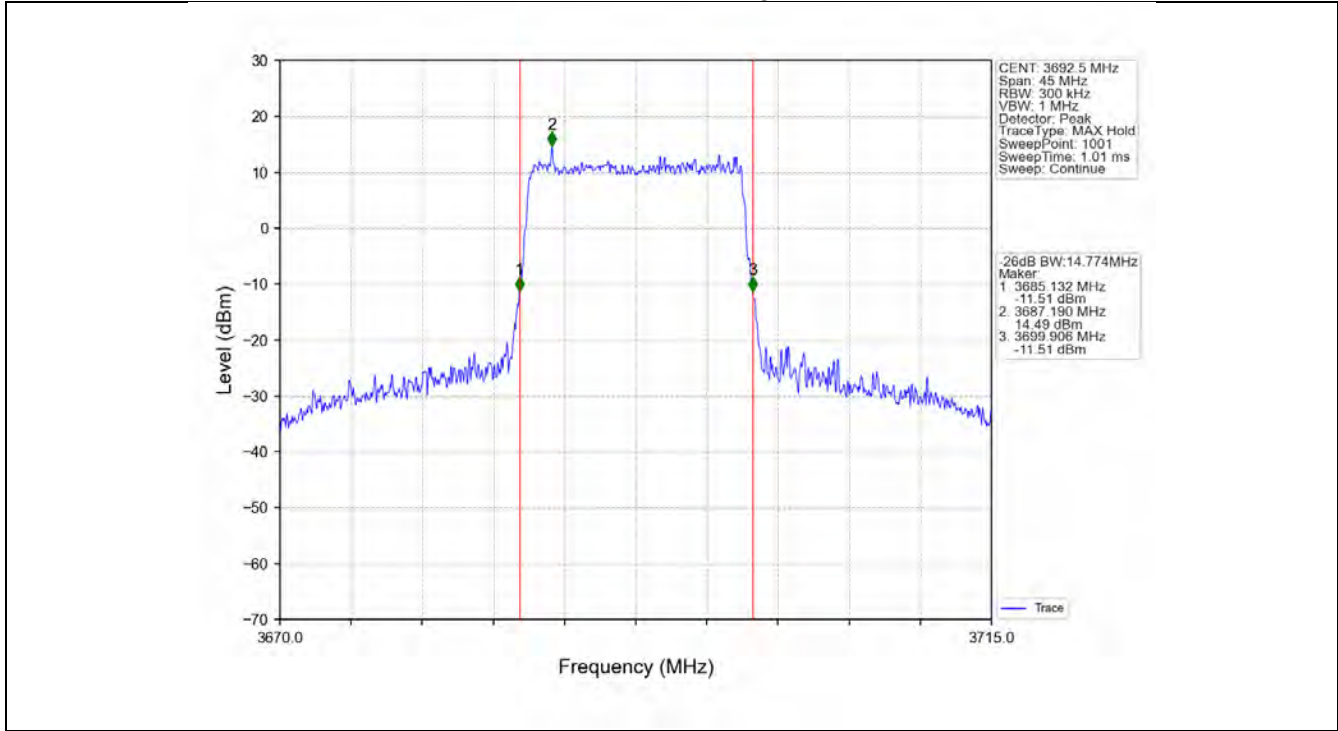
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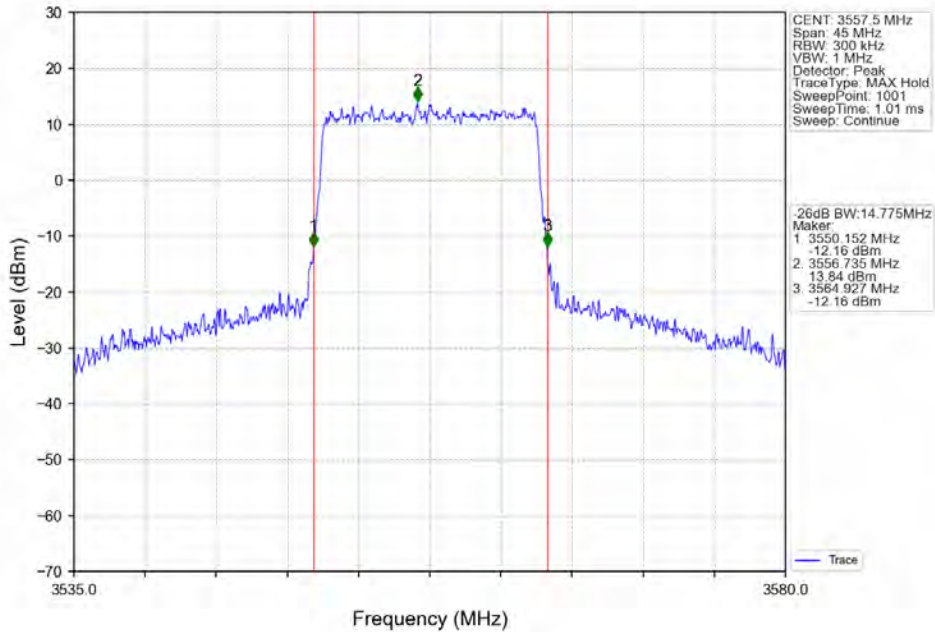
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Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_64QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV

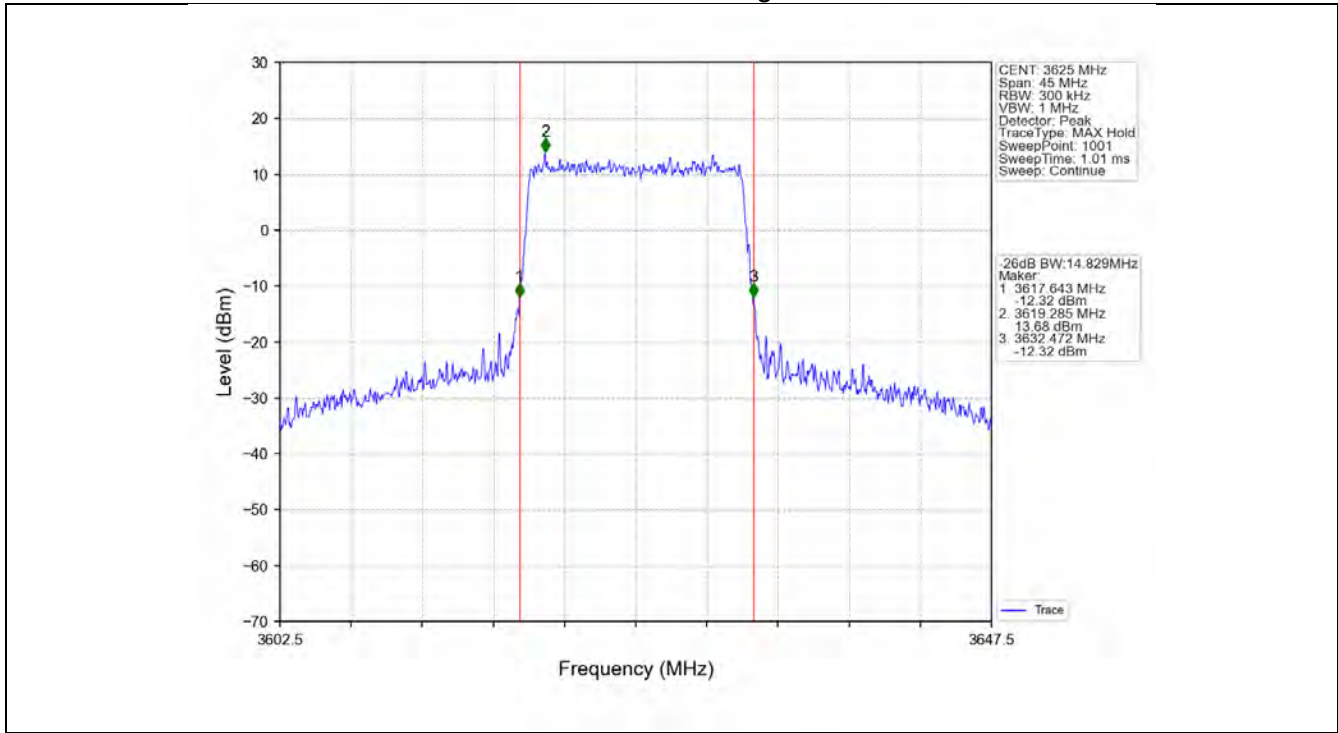


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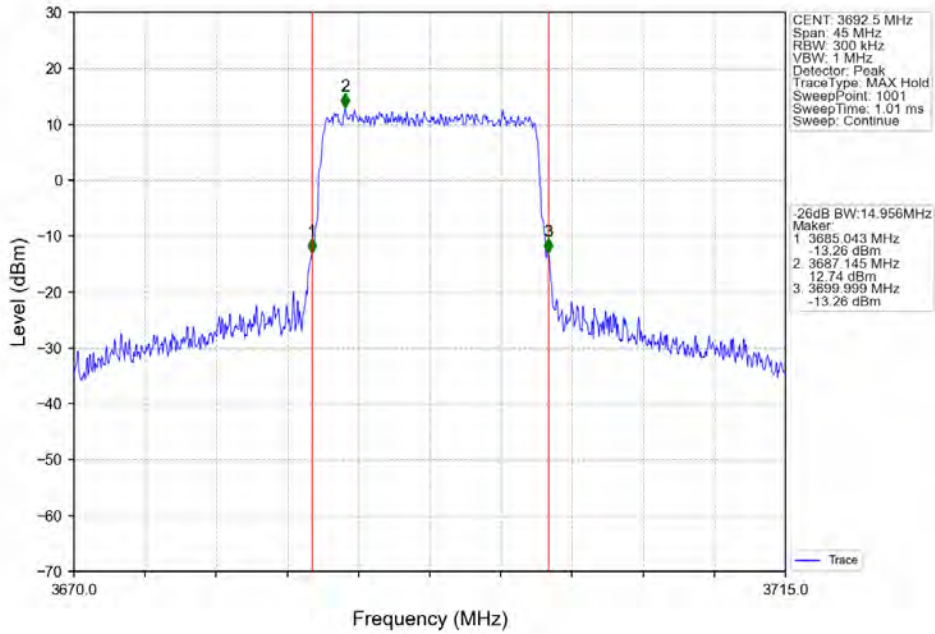


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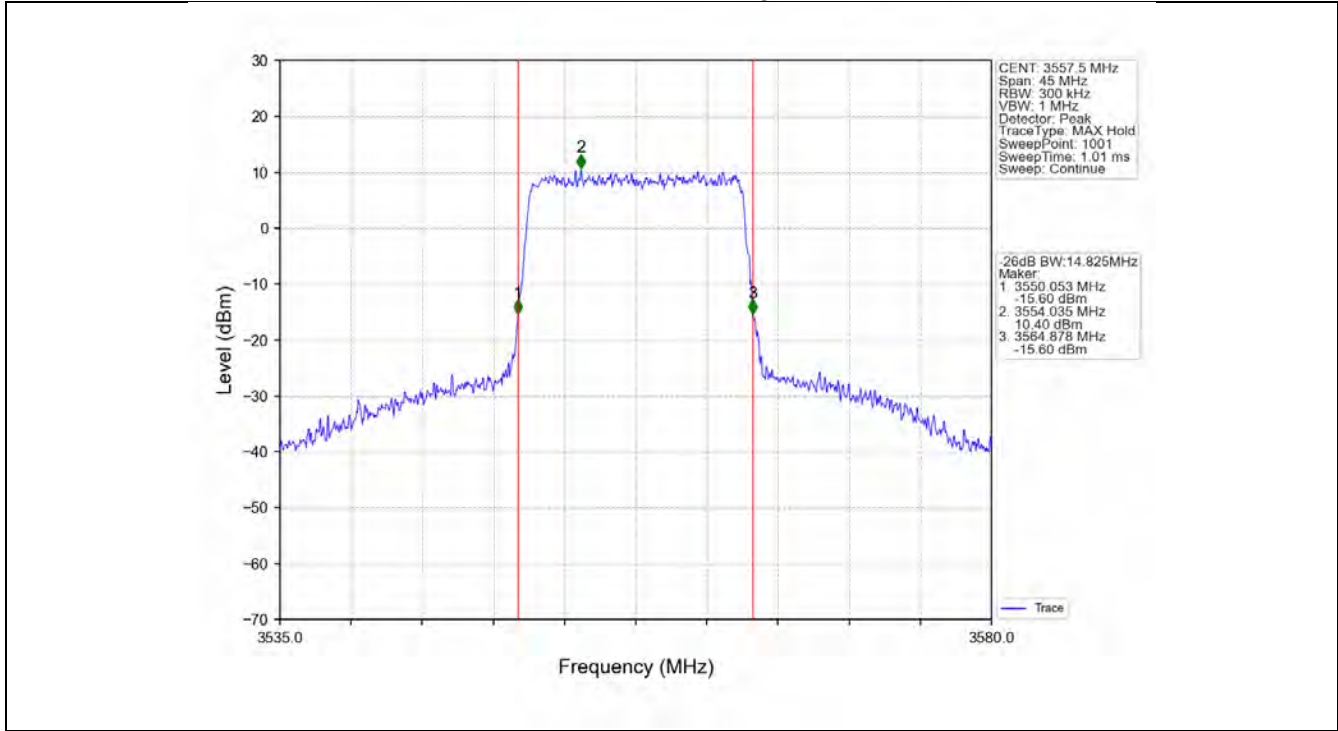
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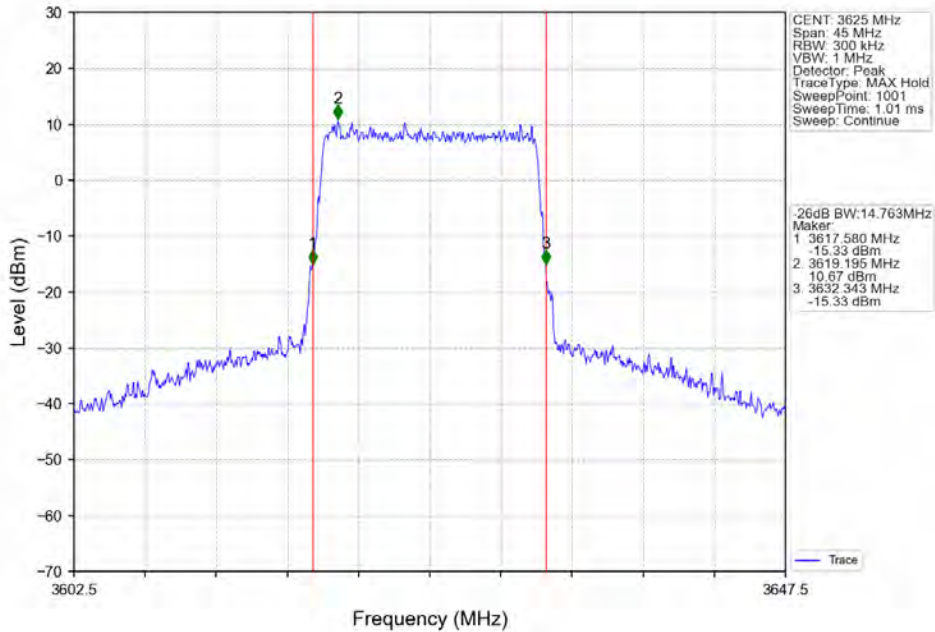


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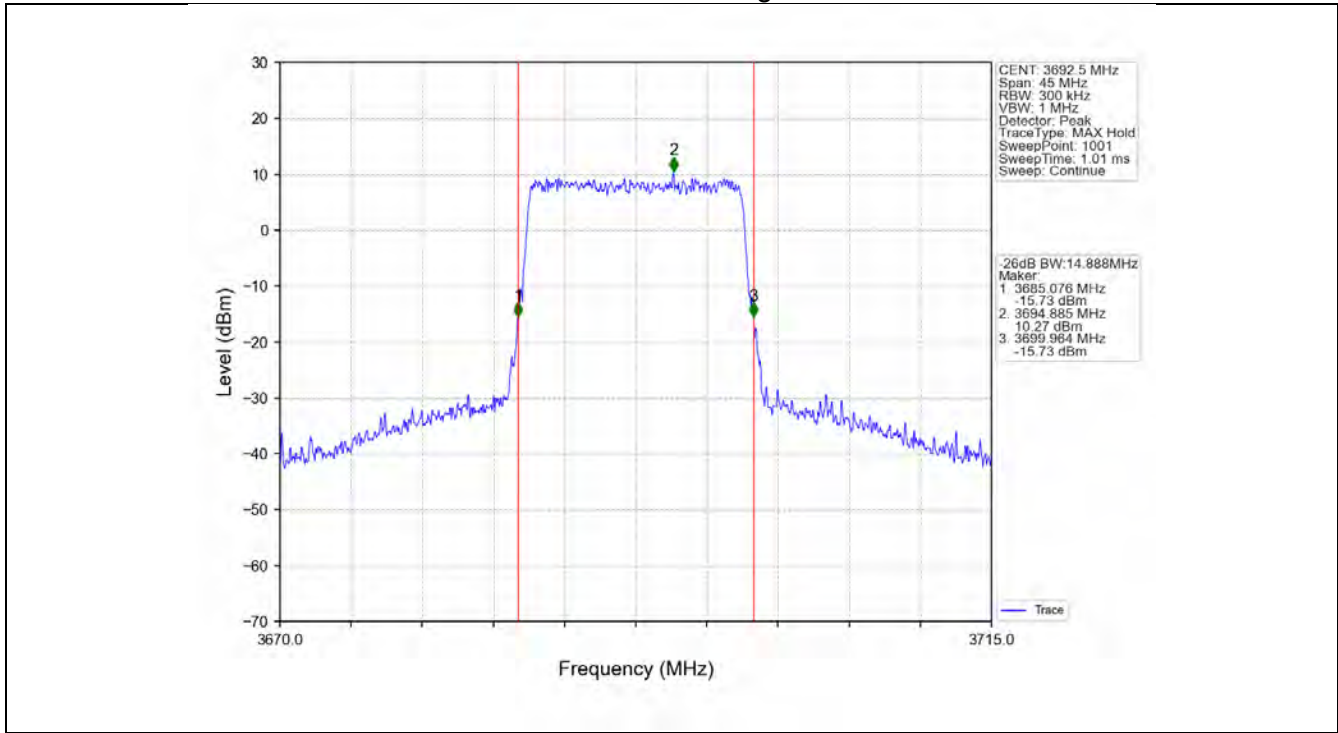
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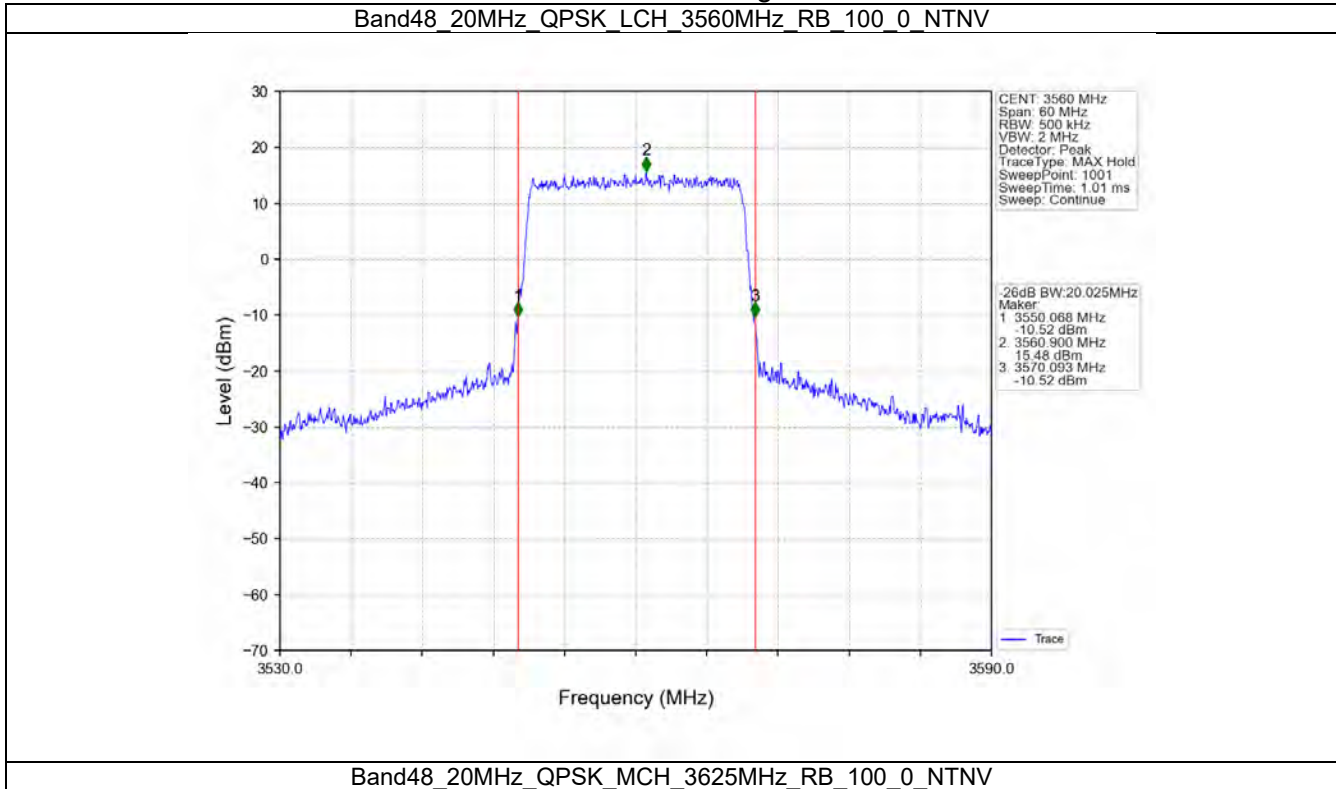


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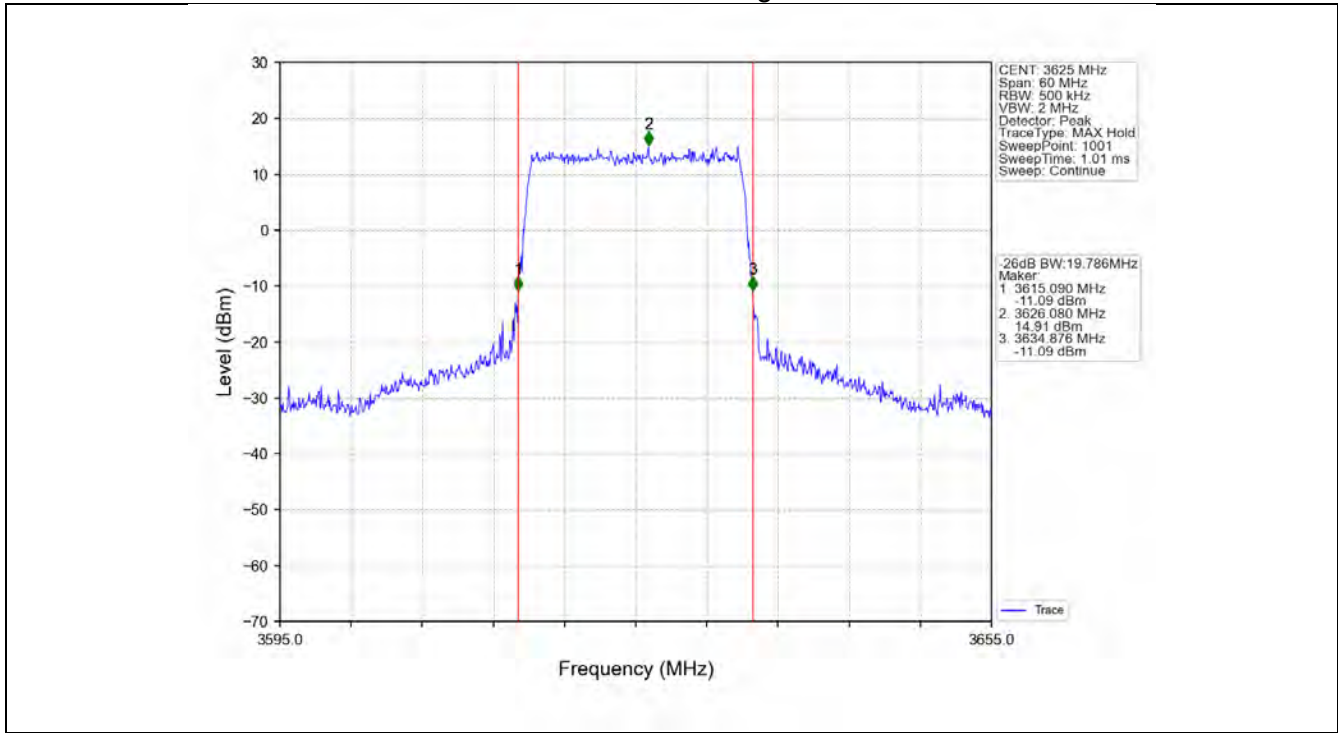


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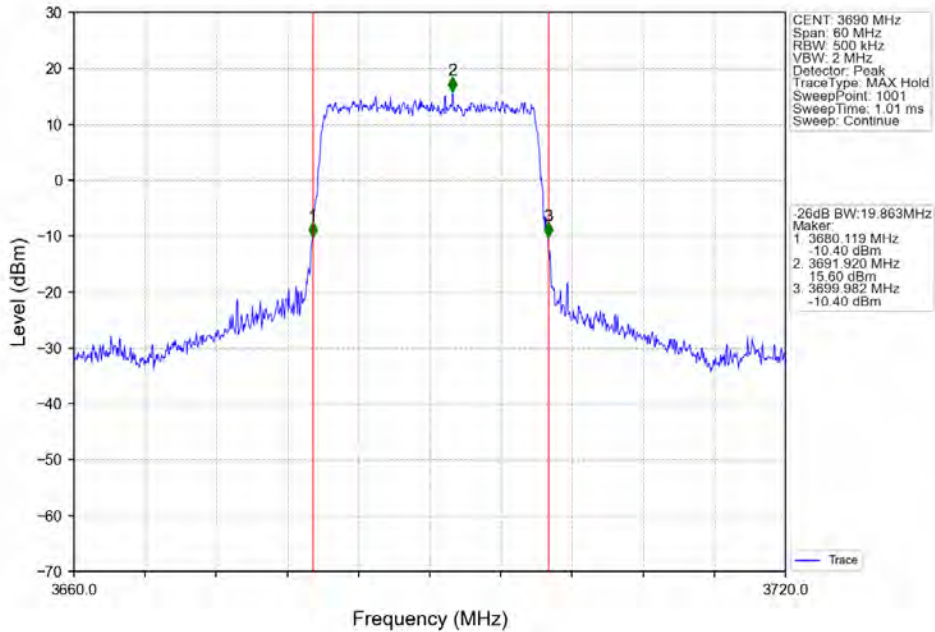


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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV

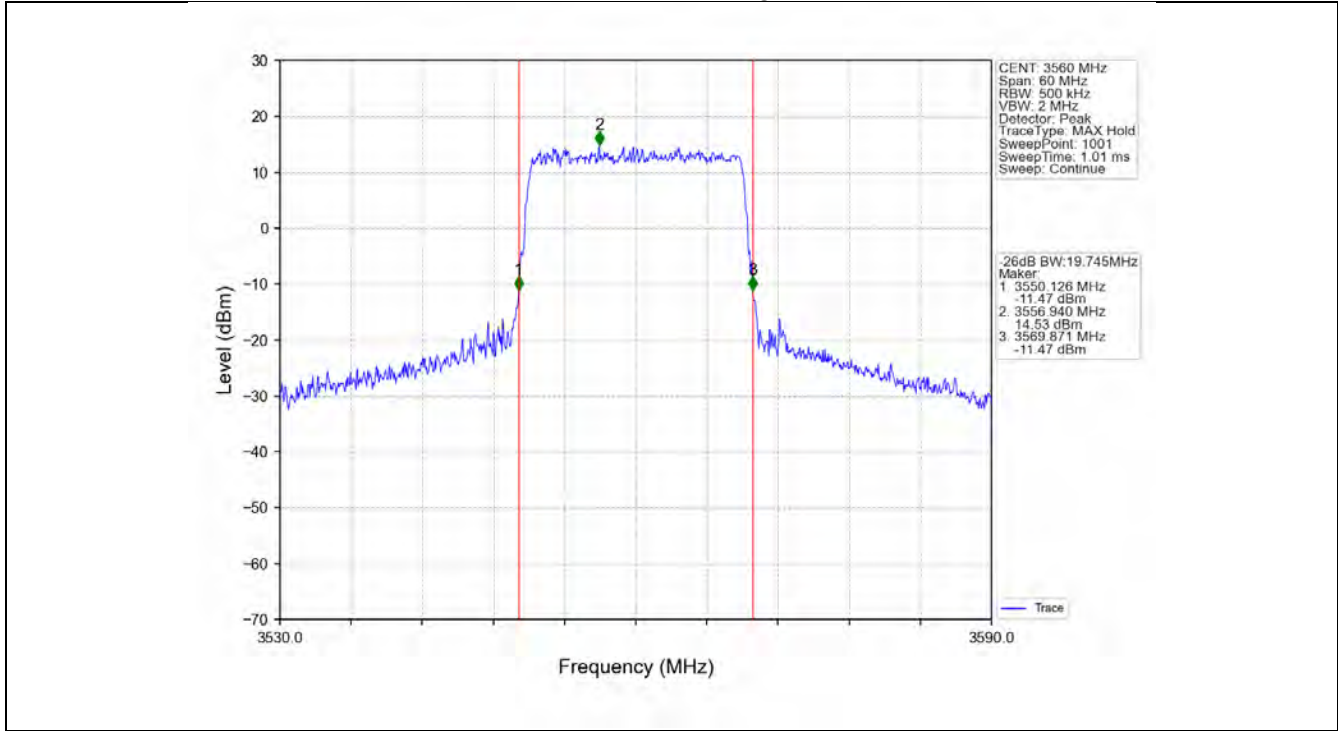


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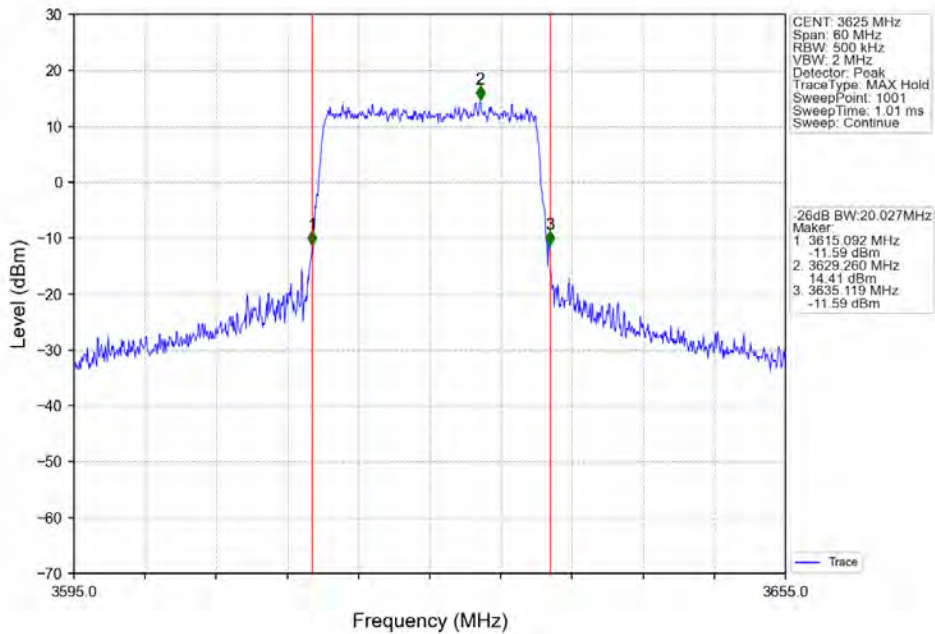


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Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV

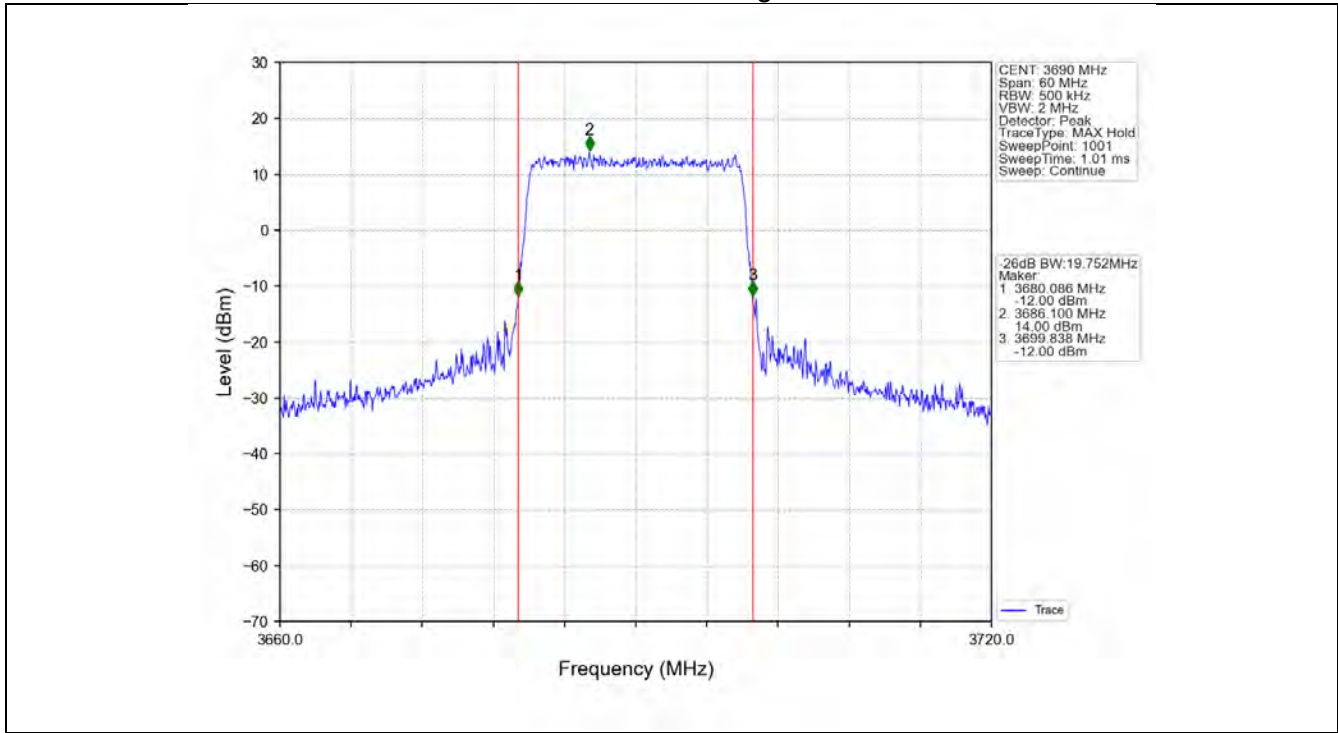


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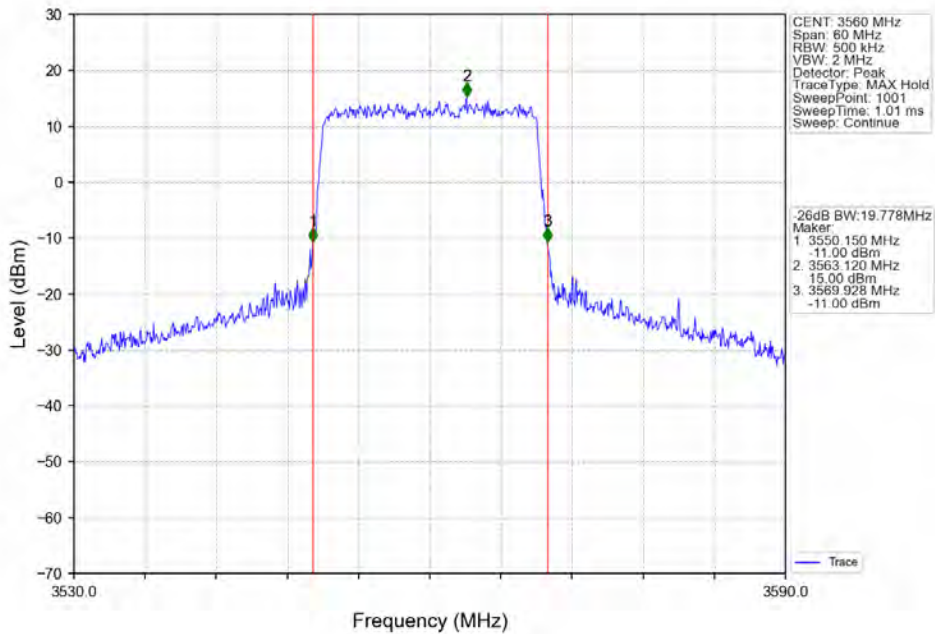


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Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV

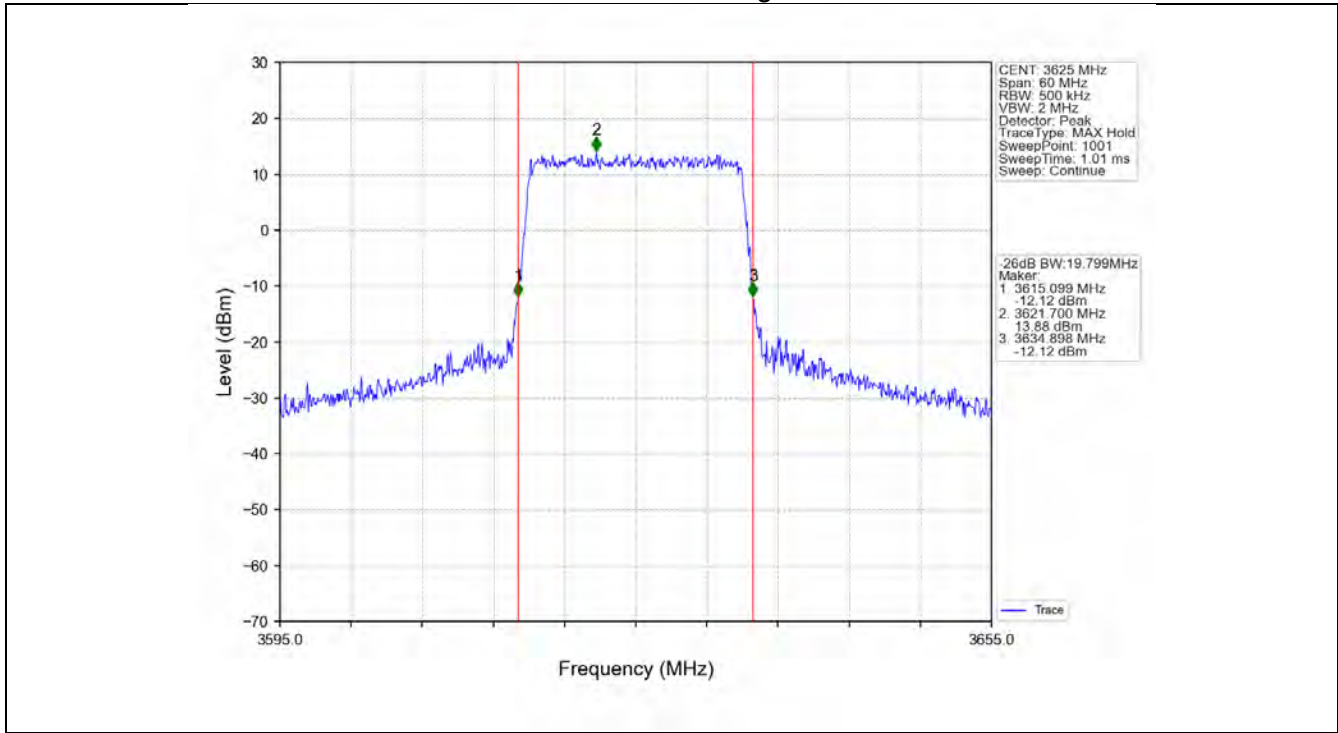


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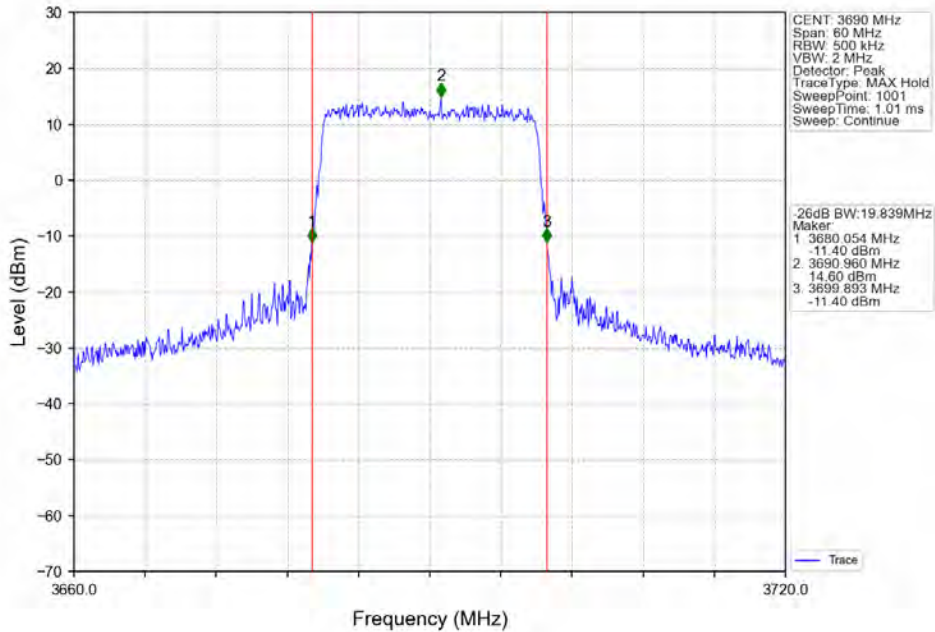


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Band48\_20MHz\_64QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_256QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV

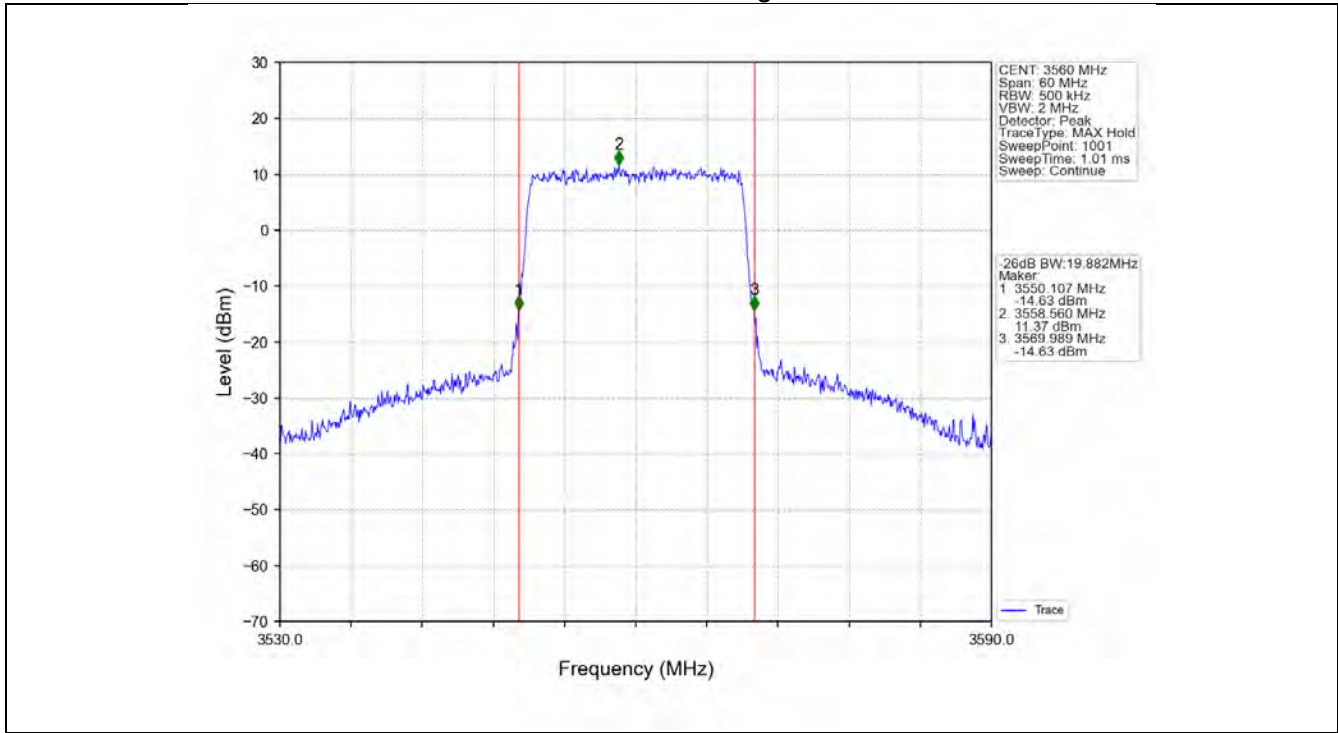


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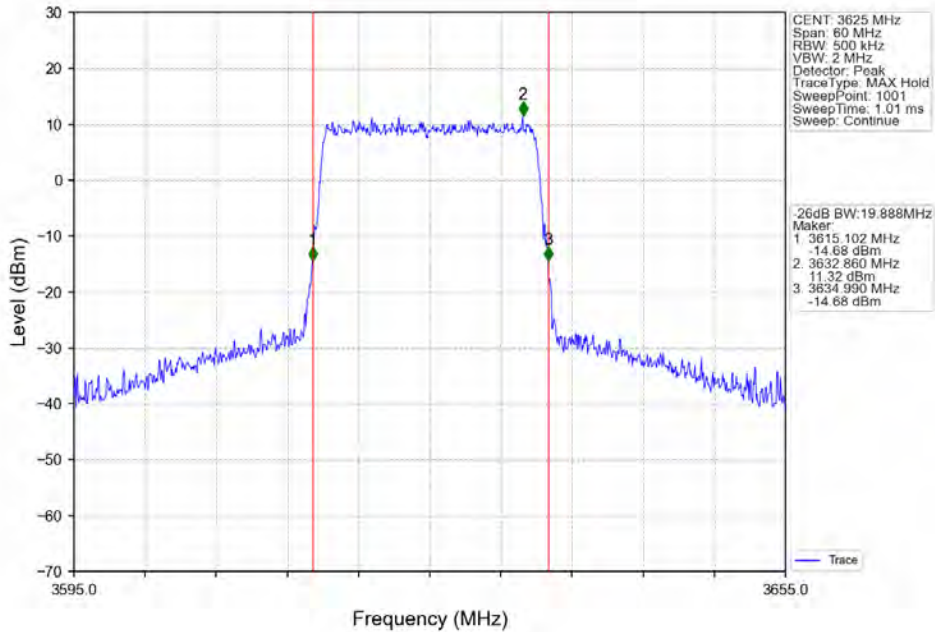


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Band48\_20MHz\_256QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



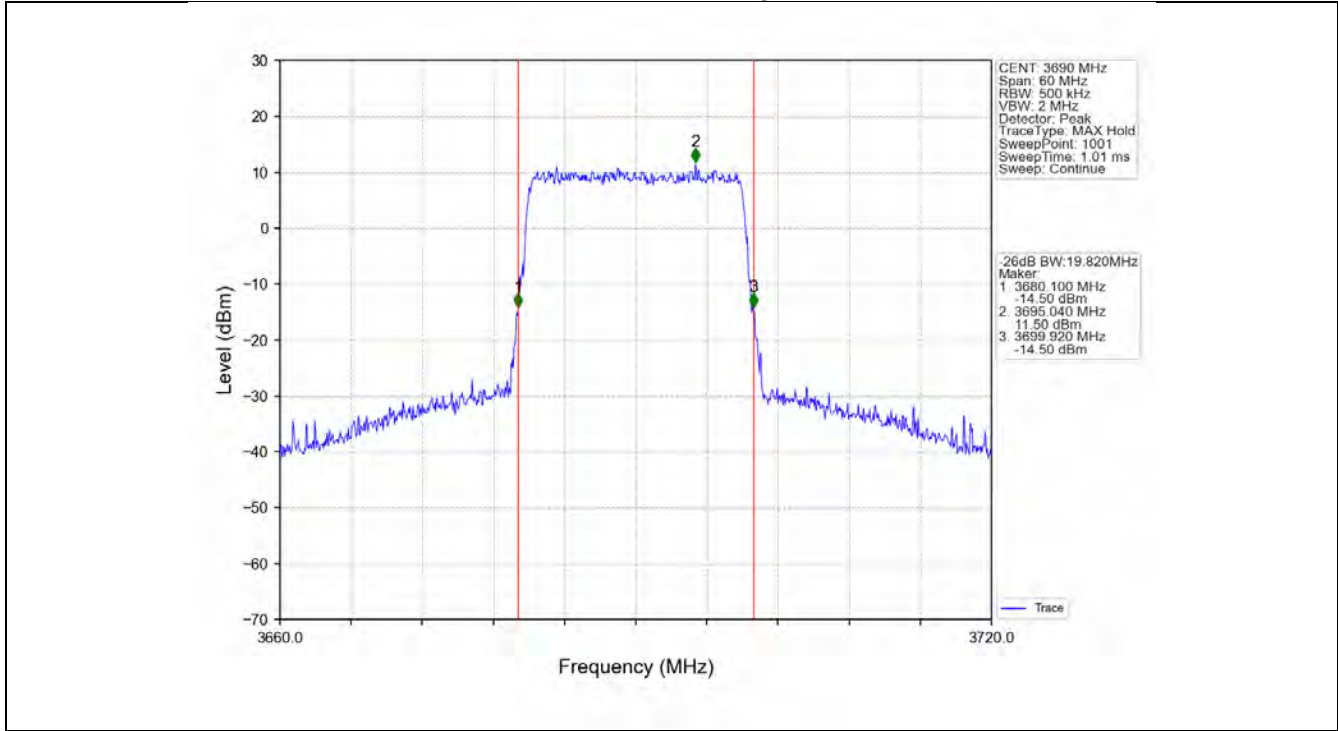
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#### 4. Peak-Average Ratio

##### 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

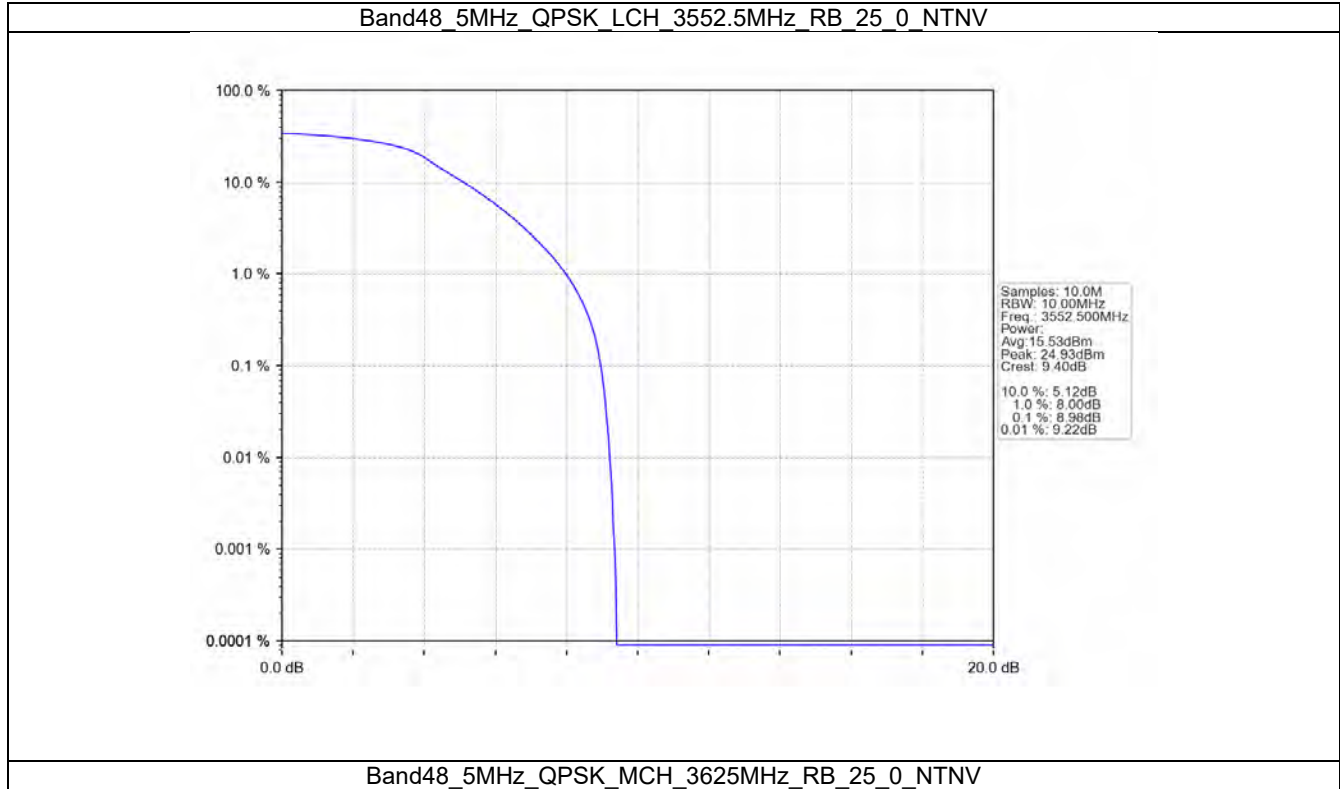


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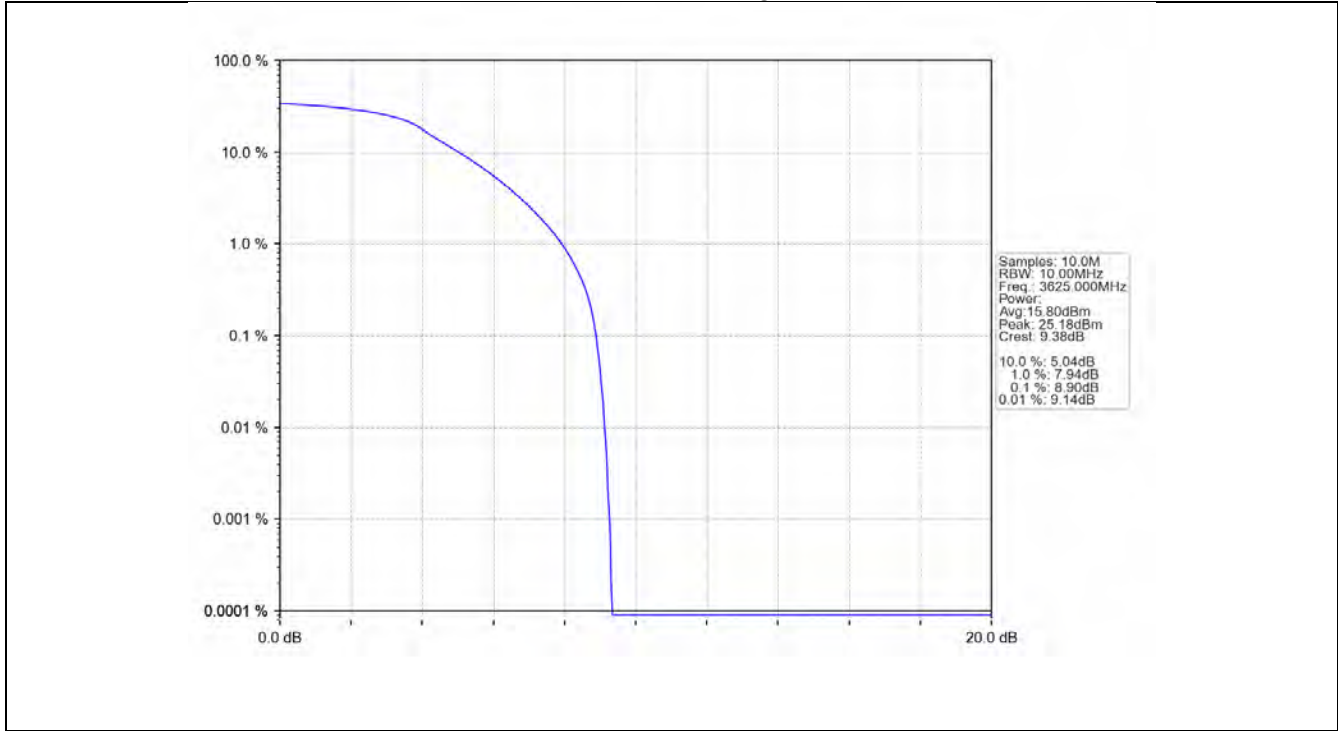
4.1.2 Test Graph



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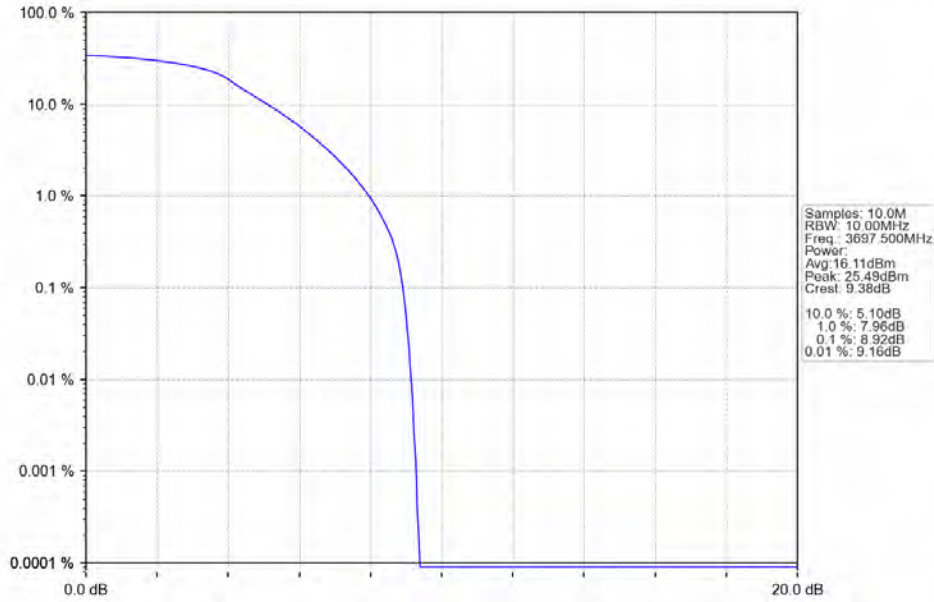


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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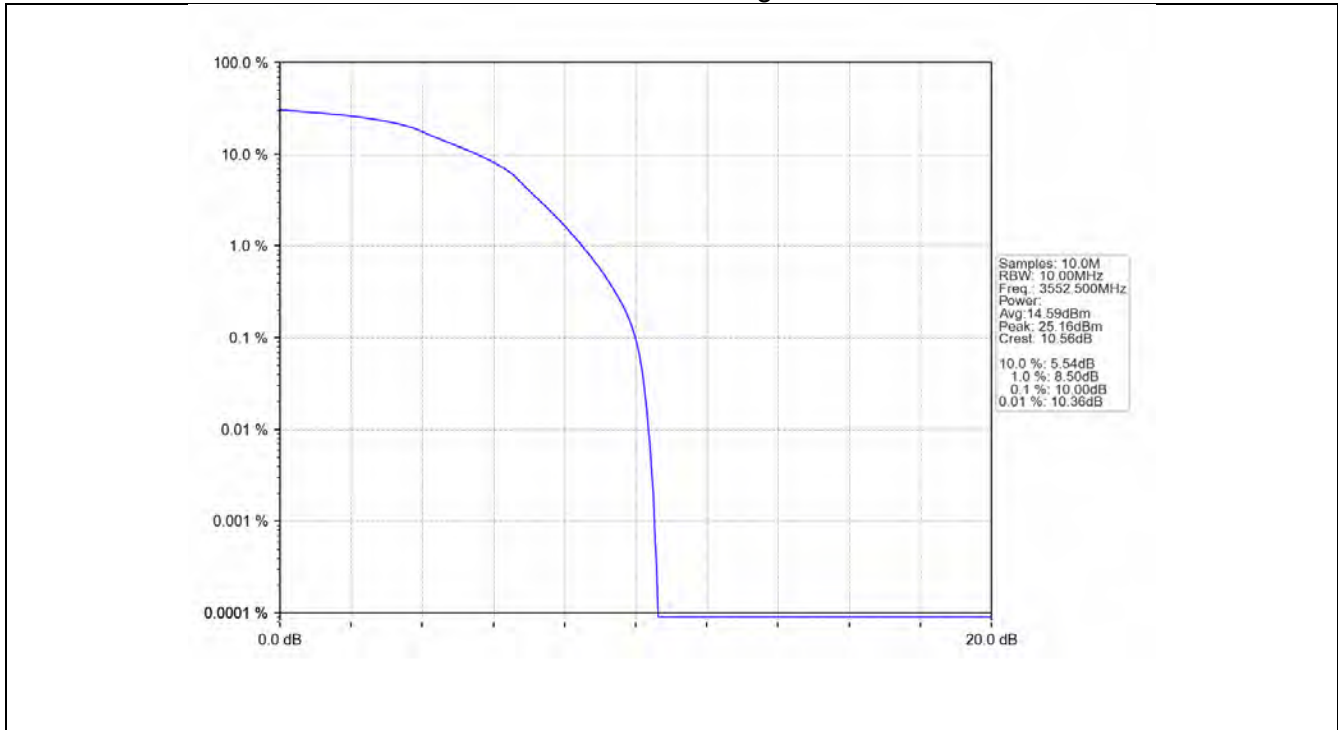
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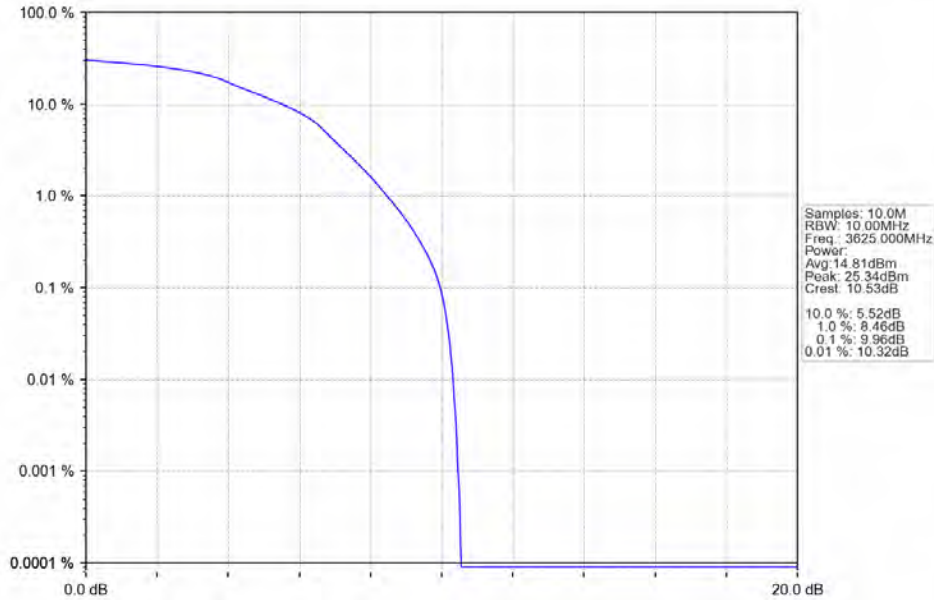


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Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

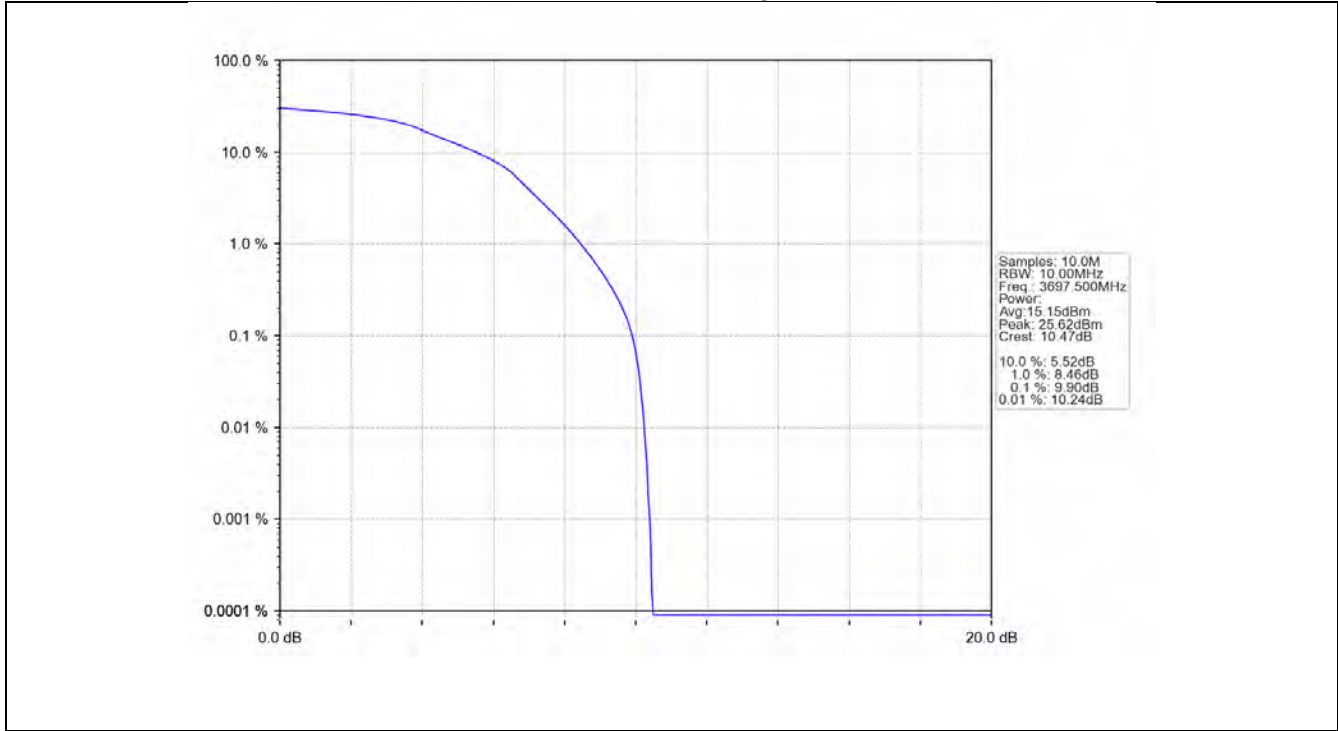


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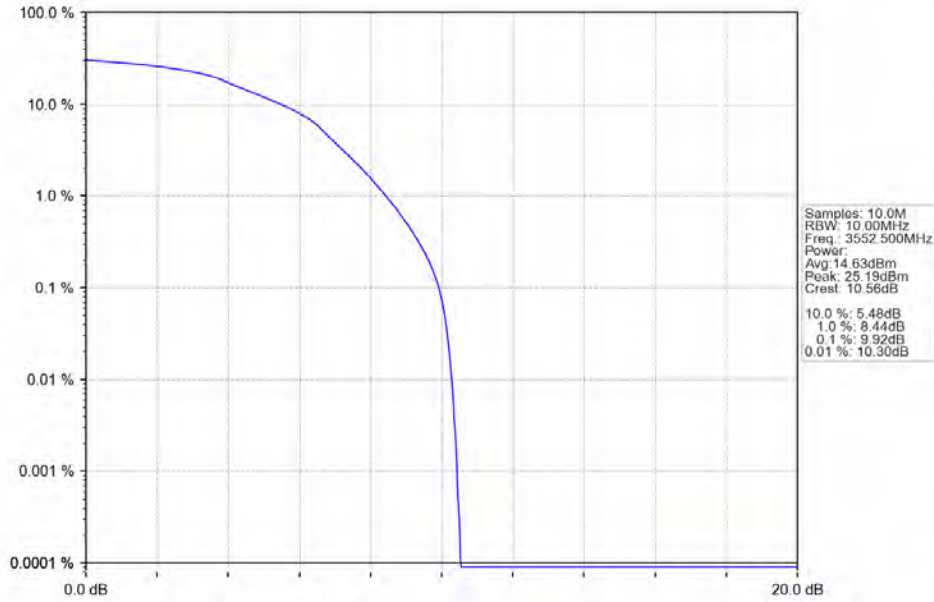


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Band48\_5MHz\_64QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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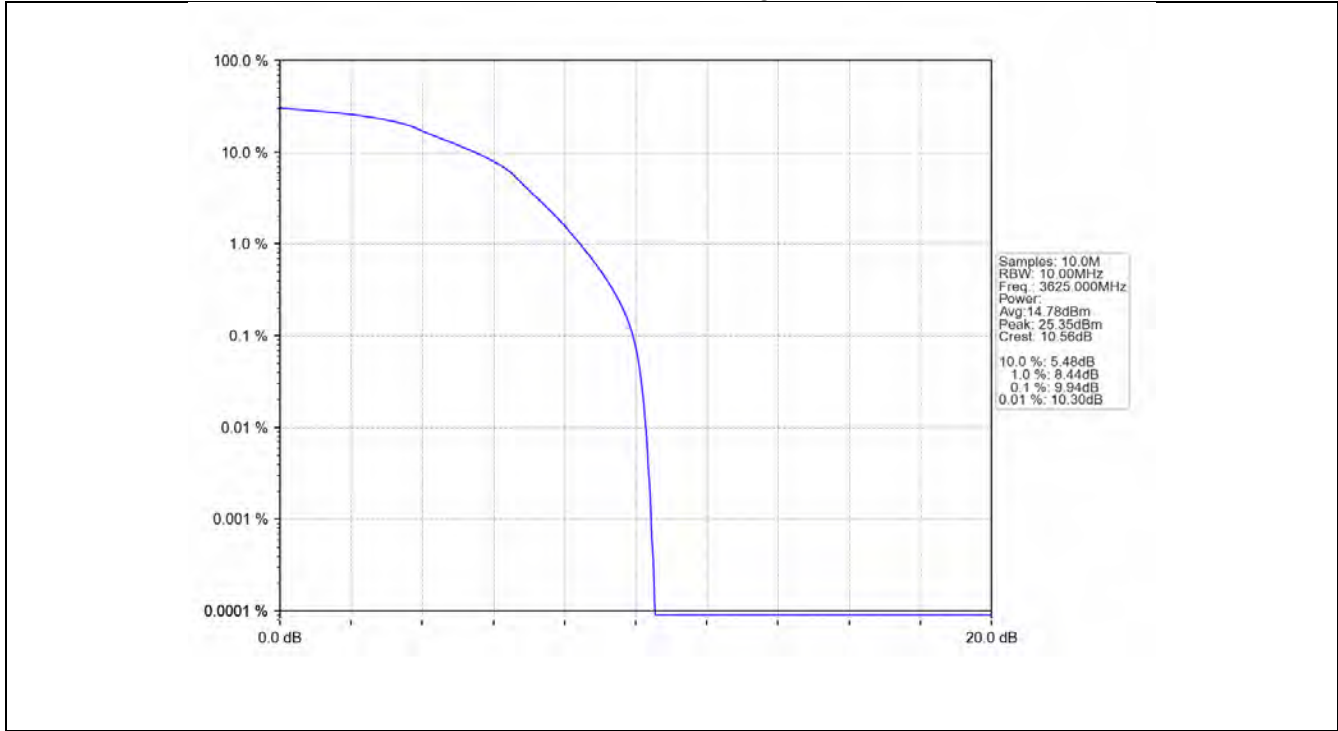
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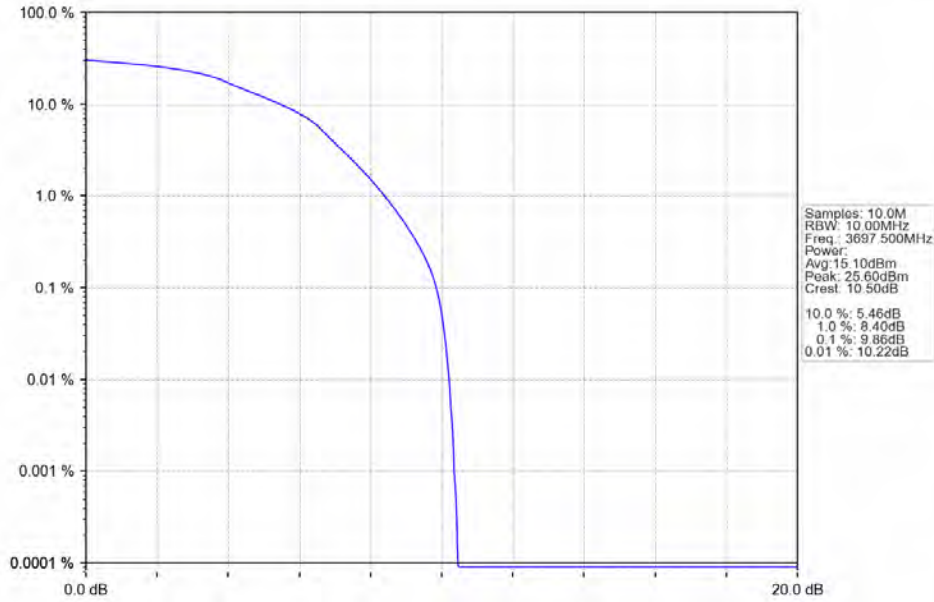


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Band48\_5MHz\_64QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_256QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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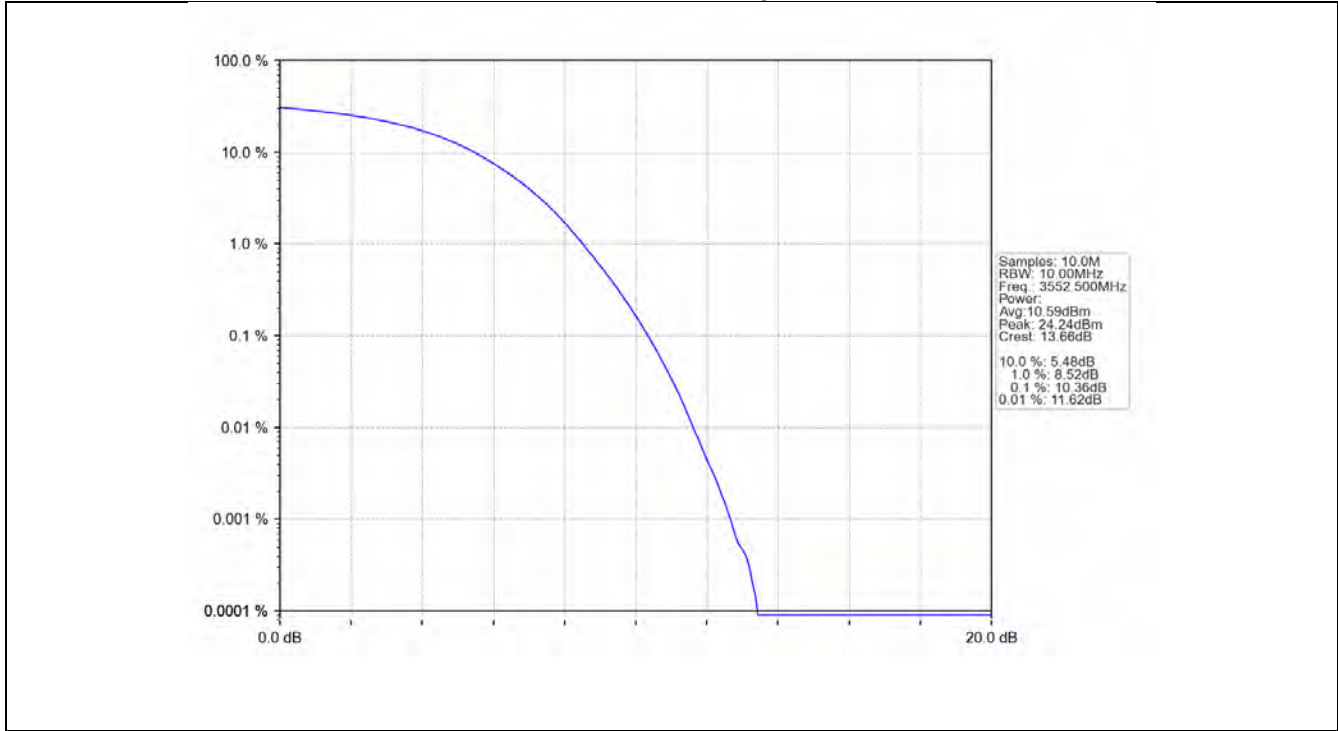
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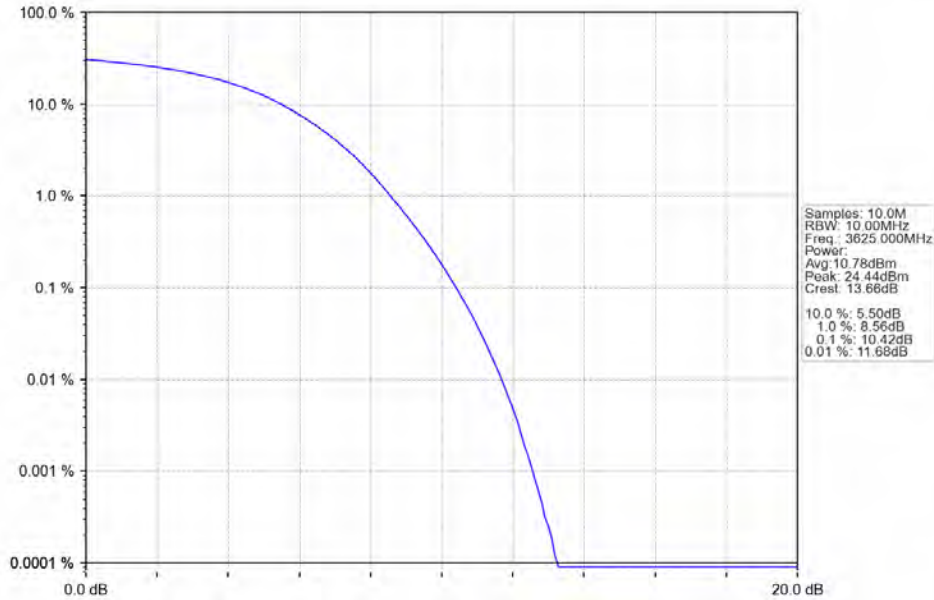
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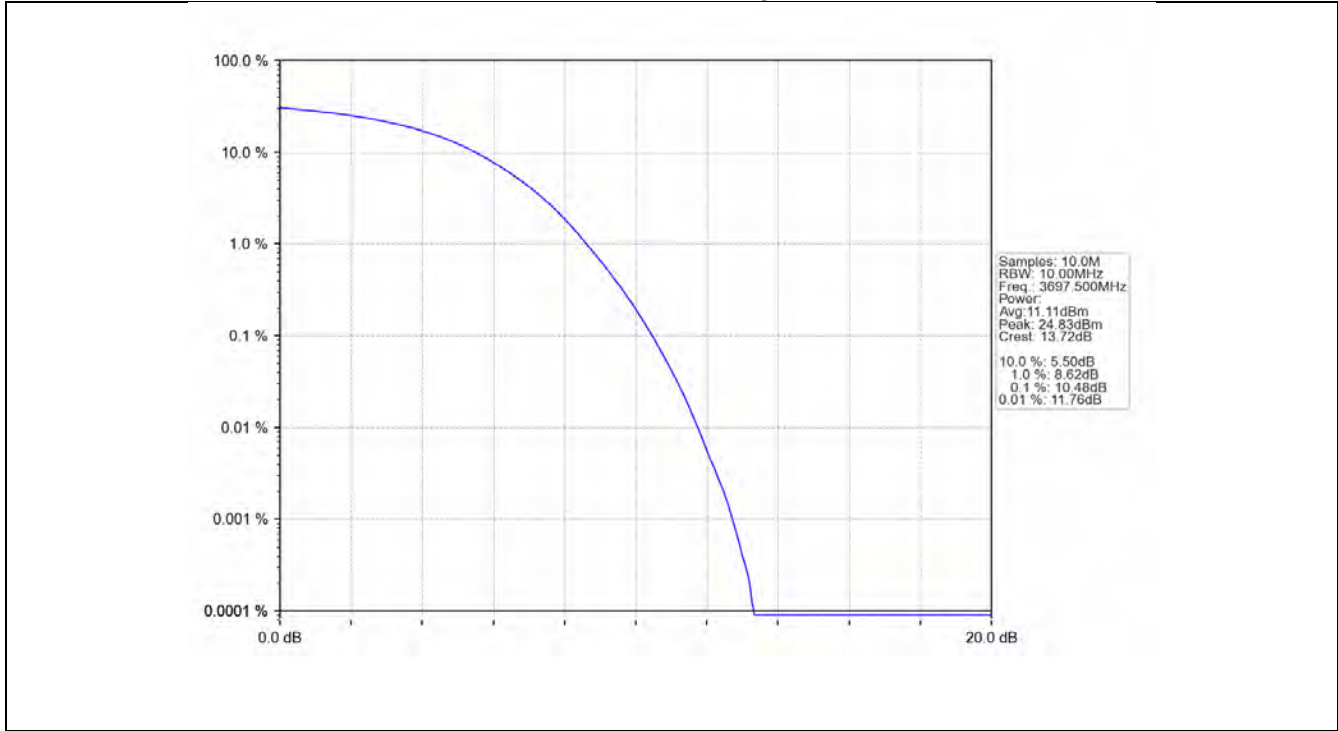


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4.2 B48\_10MHz

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

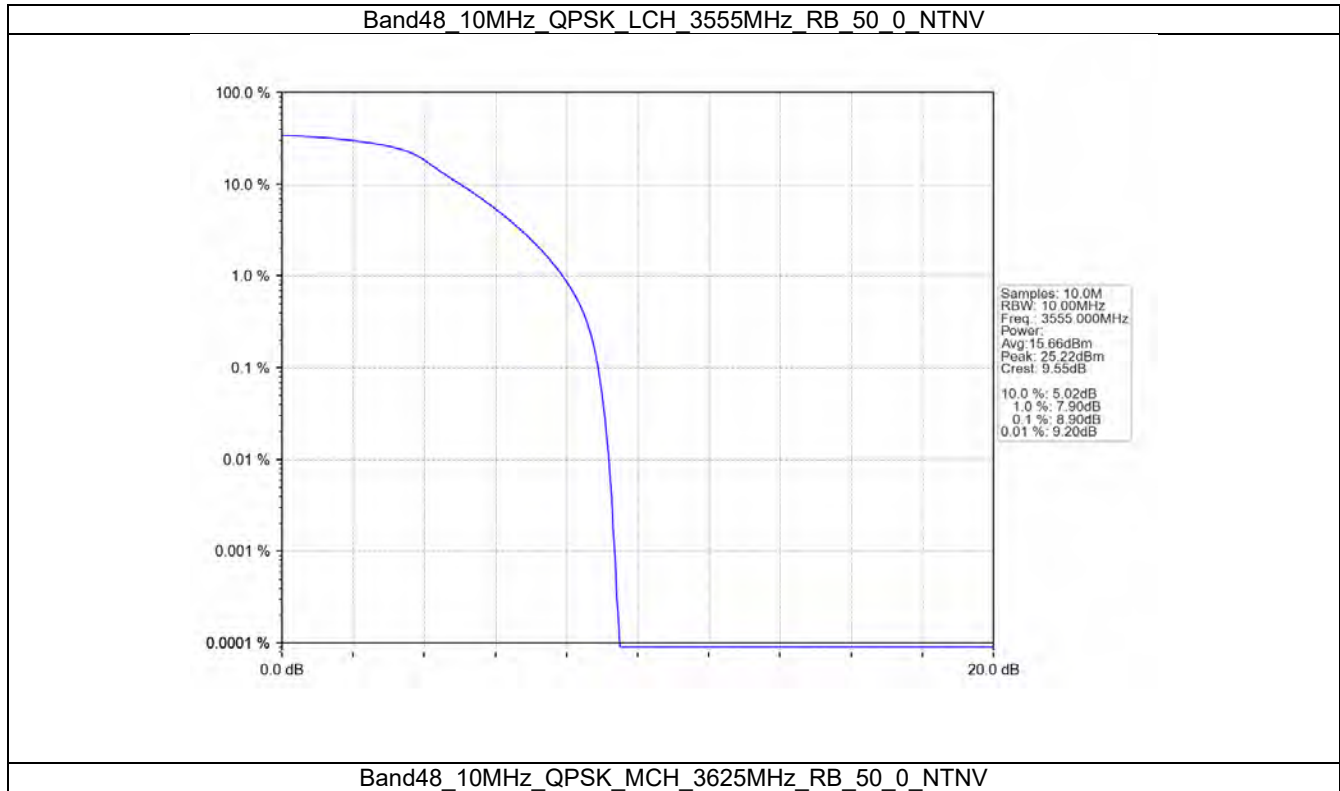


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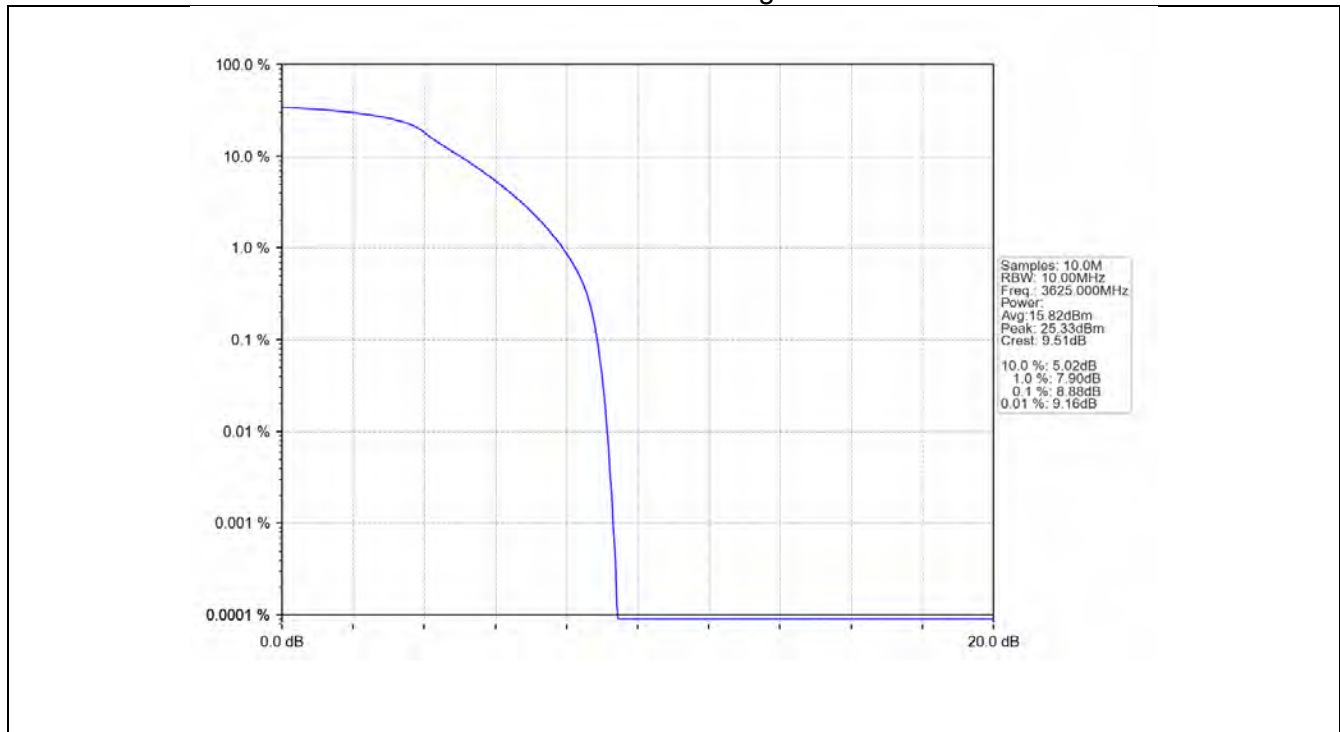
4.2.2 Test Graph



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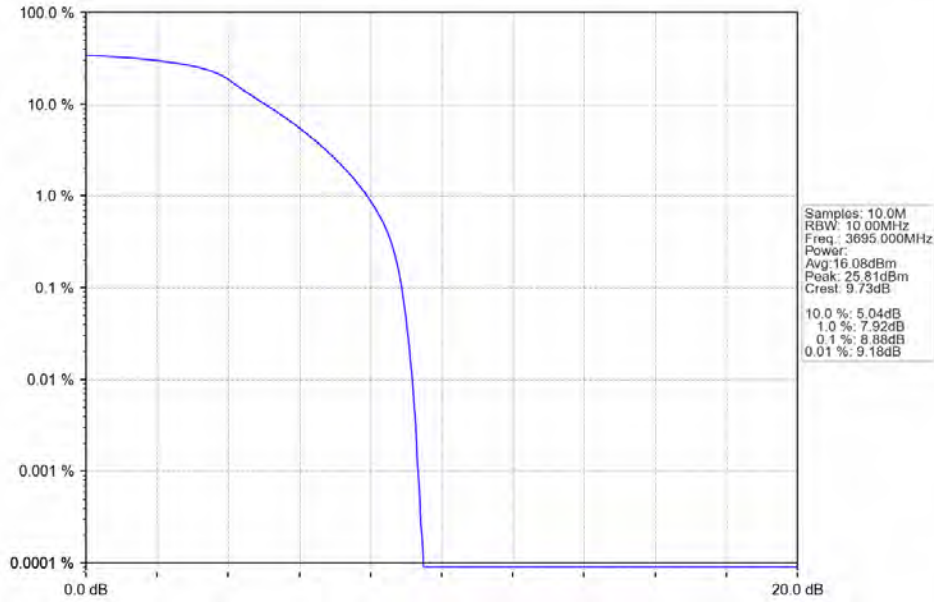


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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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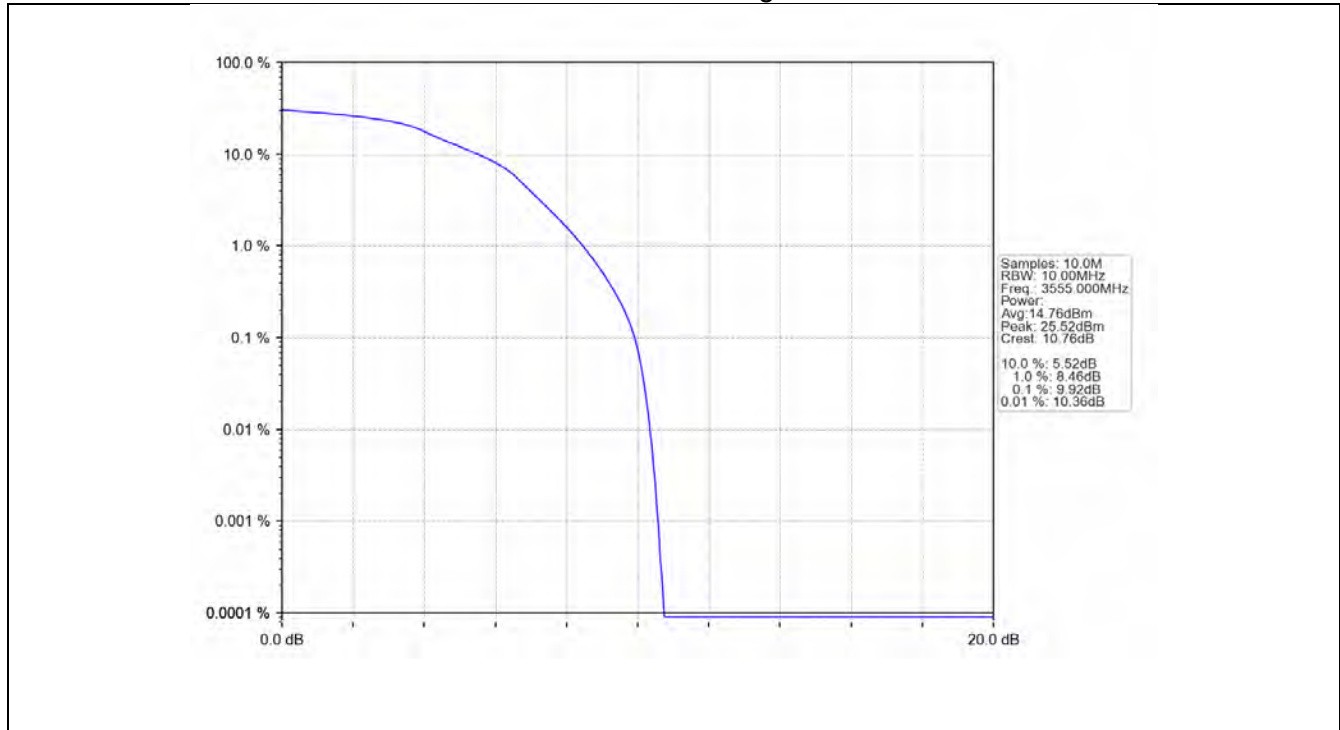
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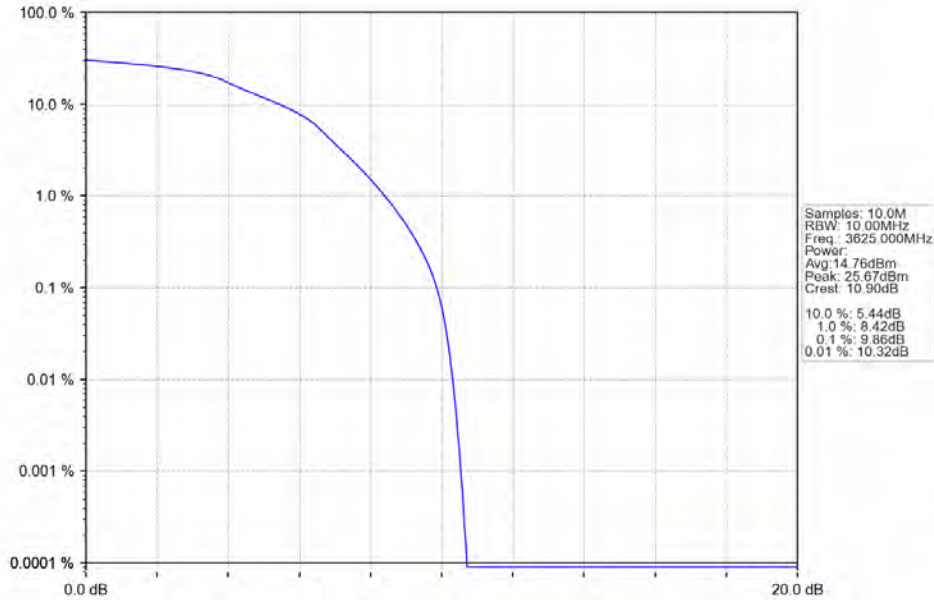


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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTN



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

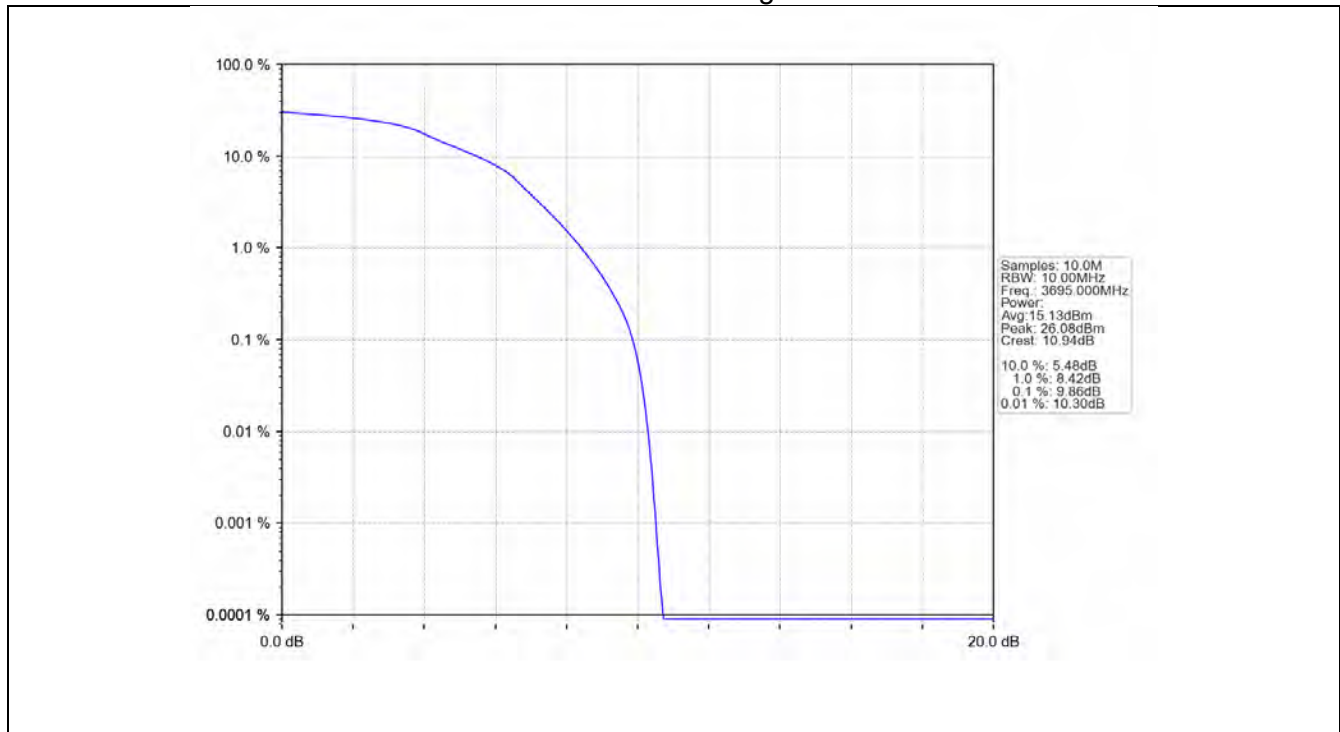


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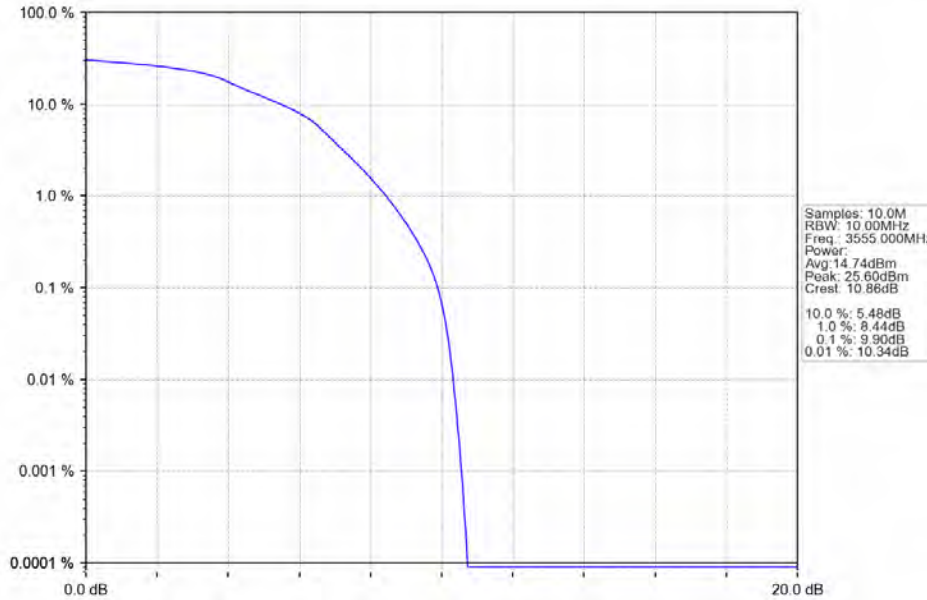


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Band48\_10MHz\_64QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_64QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



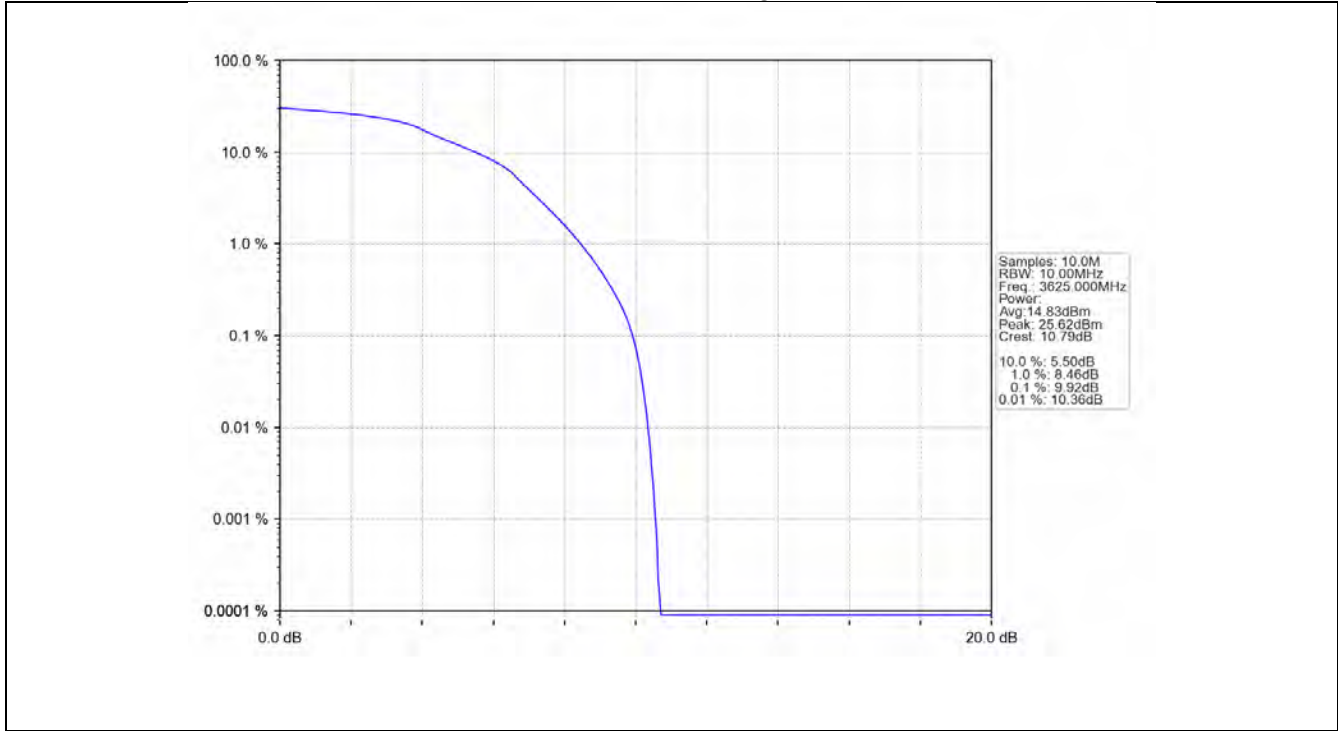
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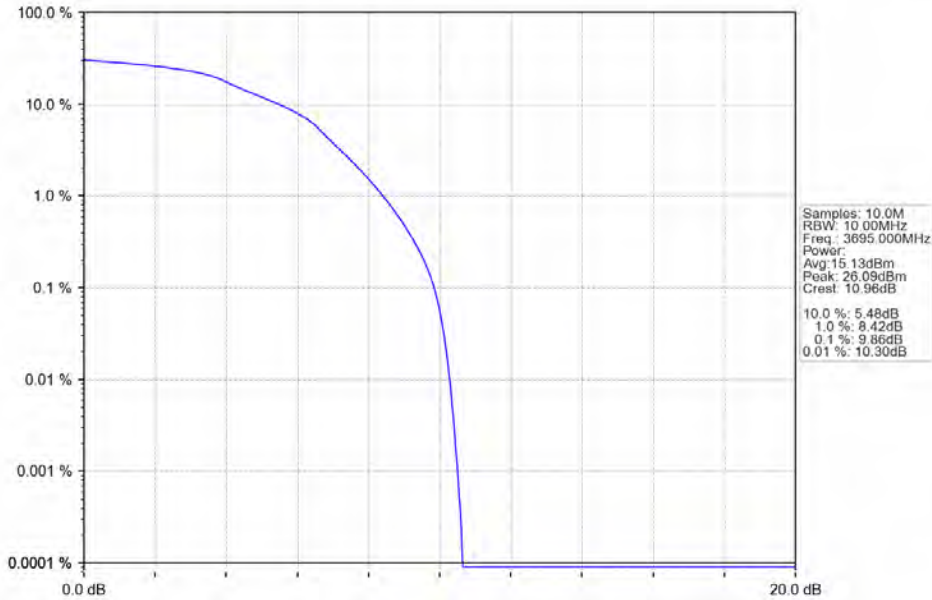


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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



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

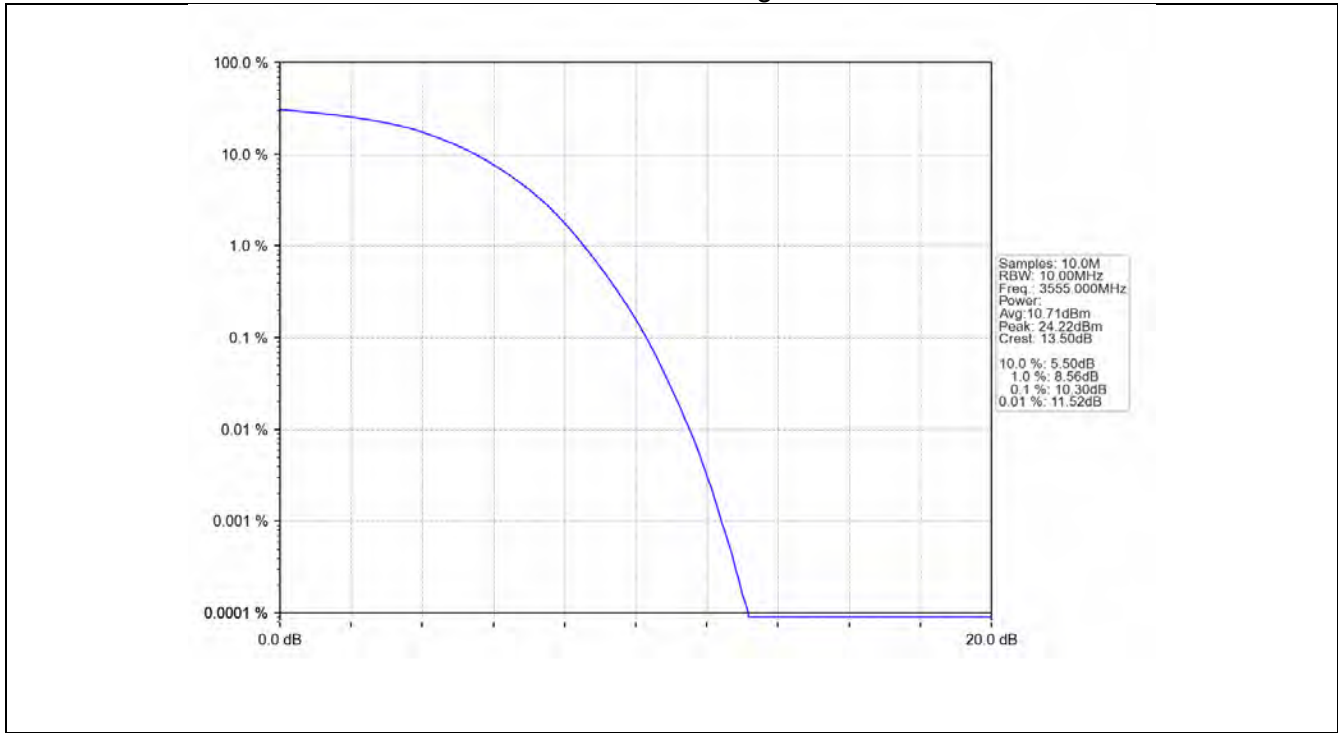


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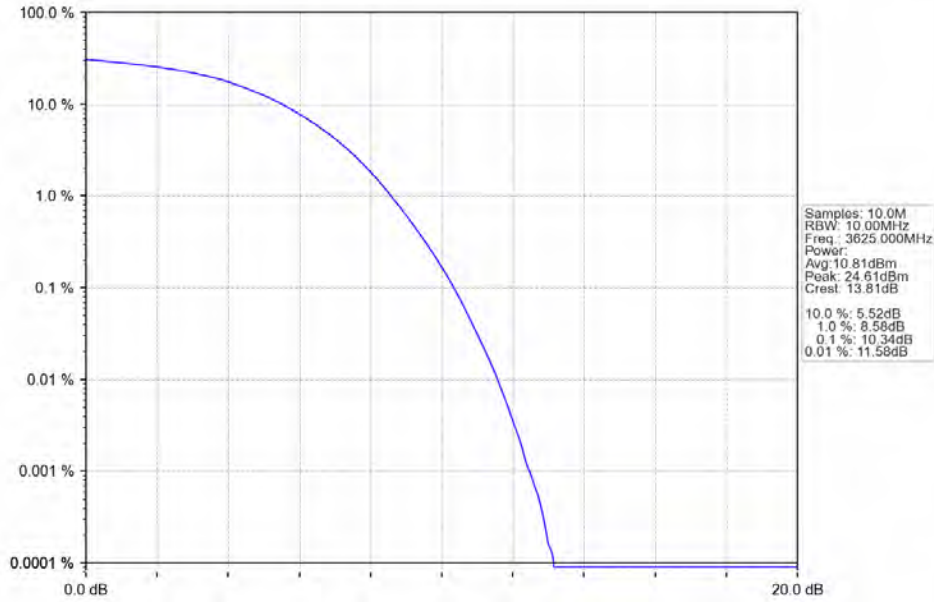


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Band48\_10MHz\_256QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_256QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV

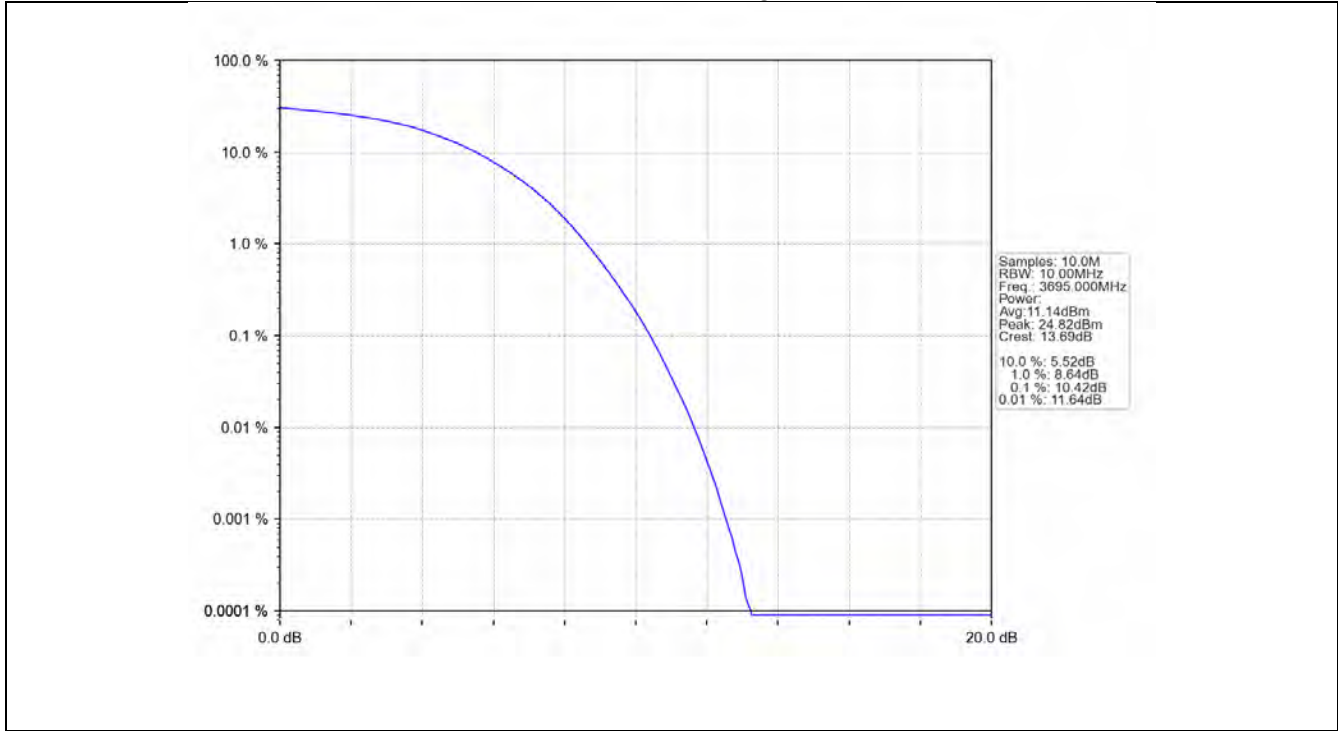


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4.3 B48\_15MHz

4.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTVN						
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

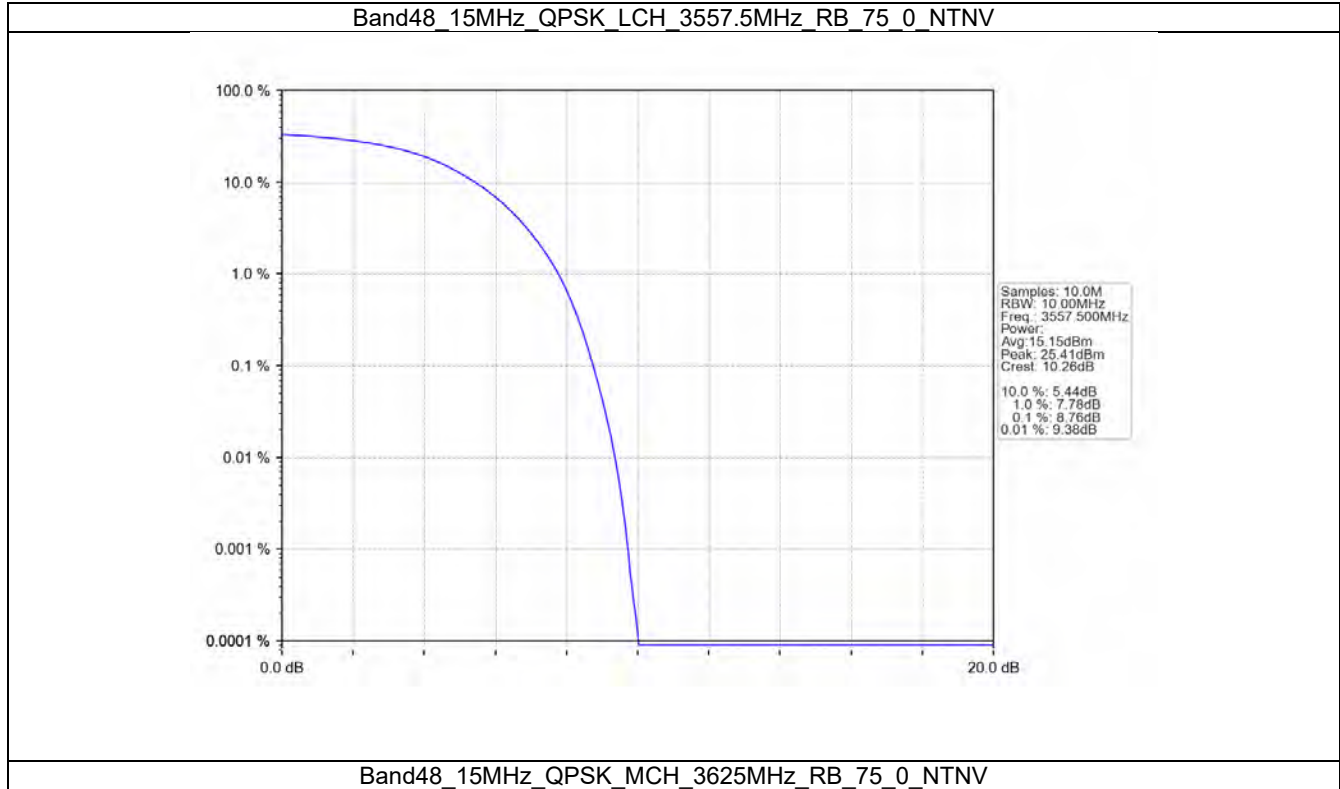


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4.3.2 Test Graph



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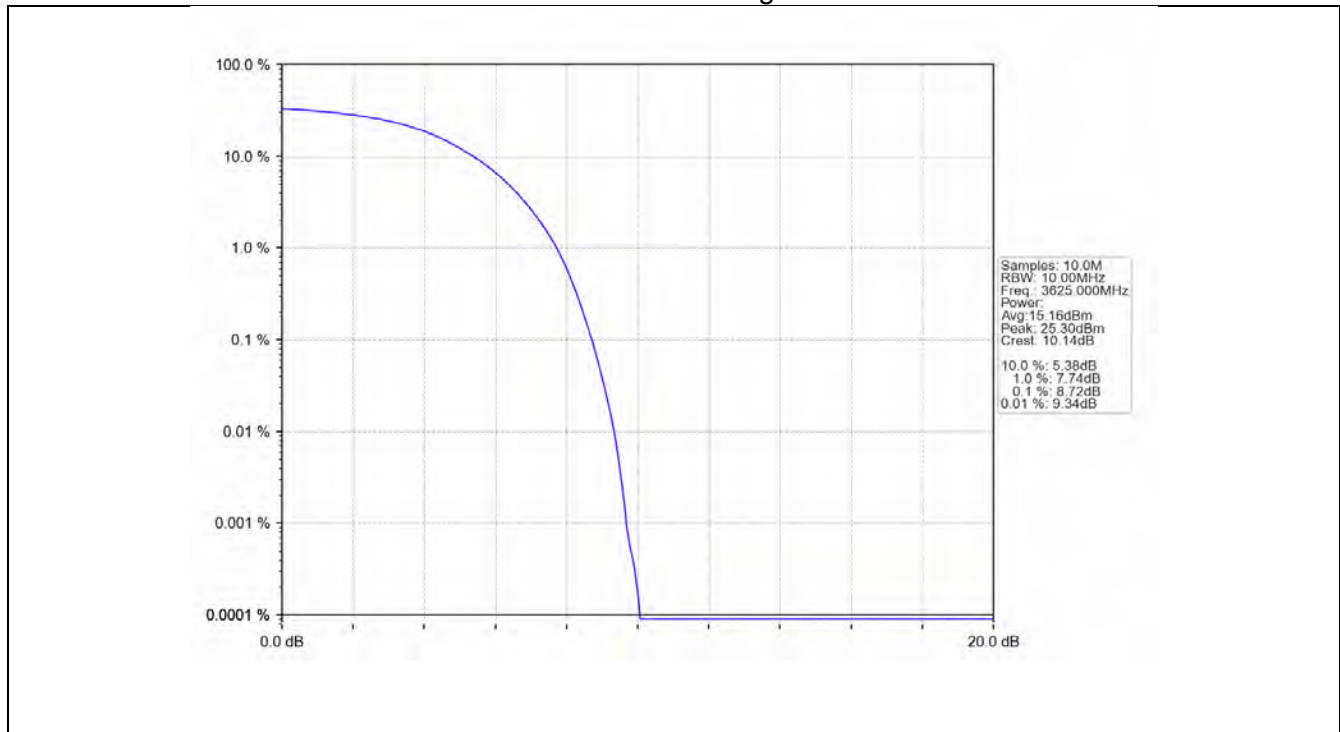
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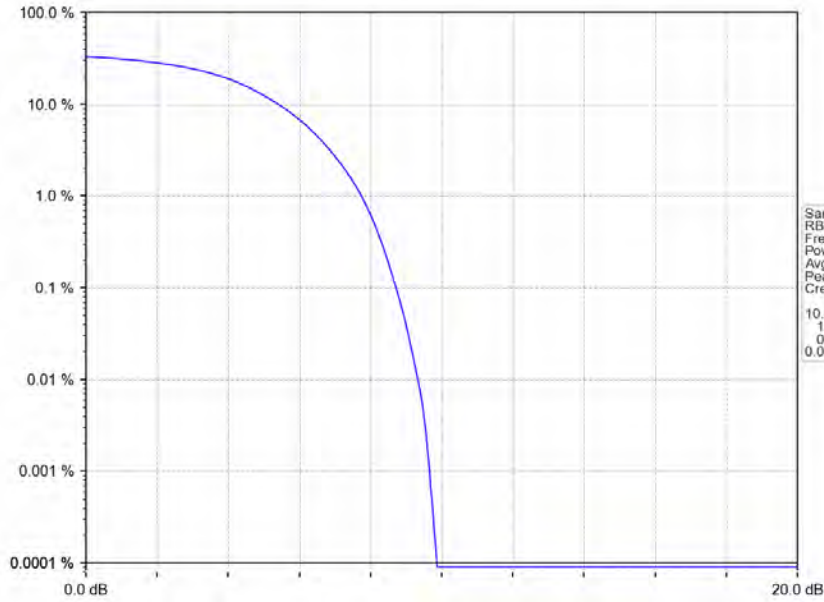


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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



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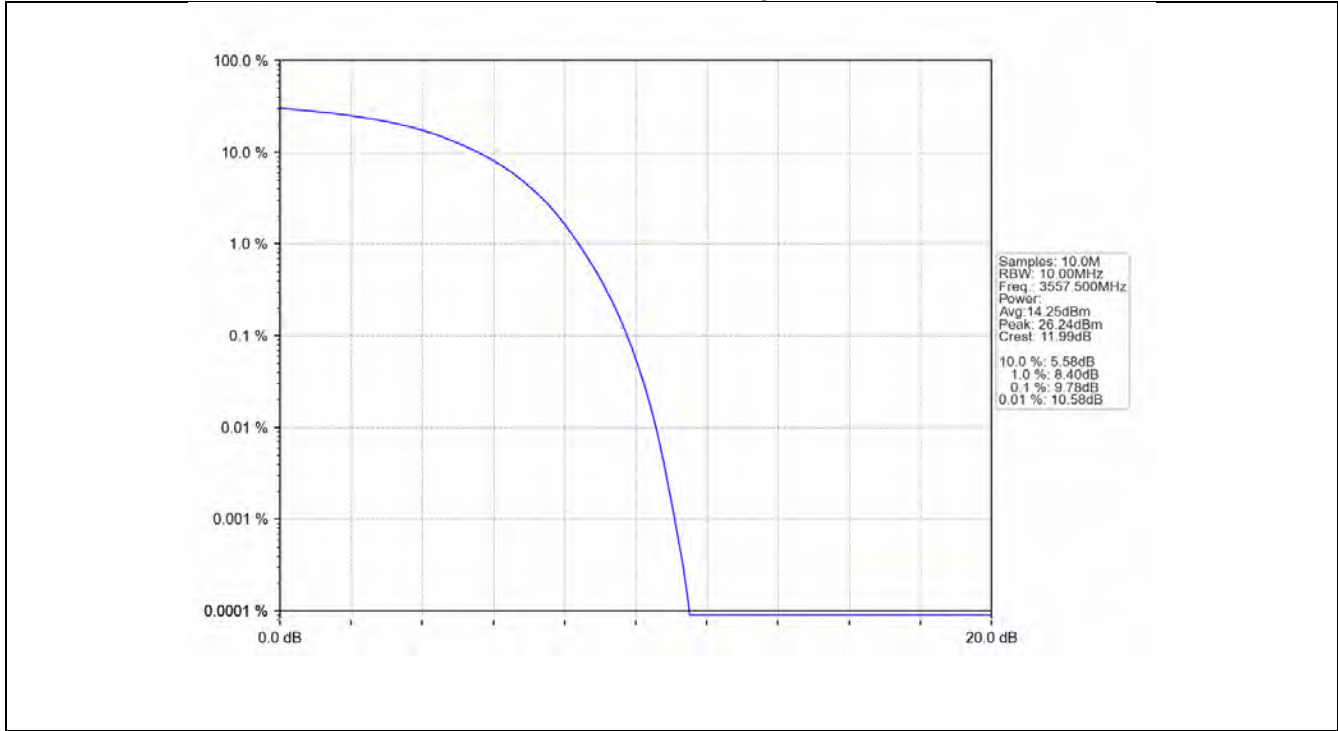
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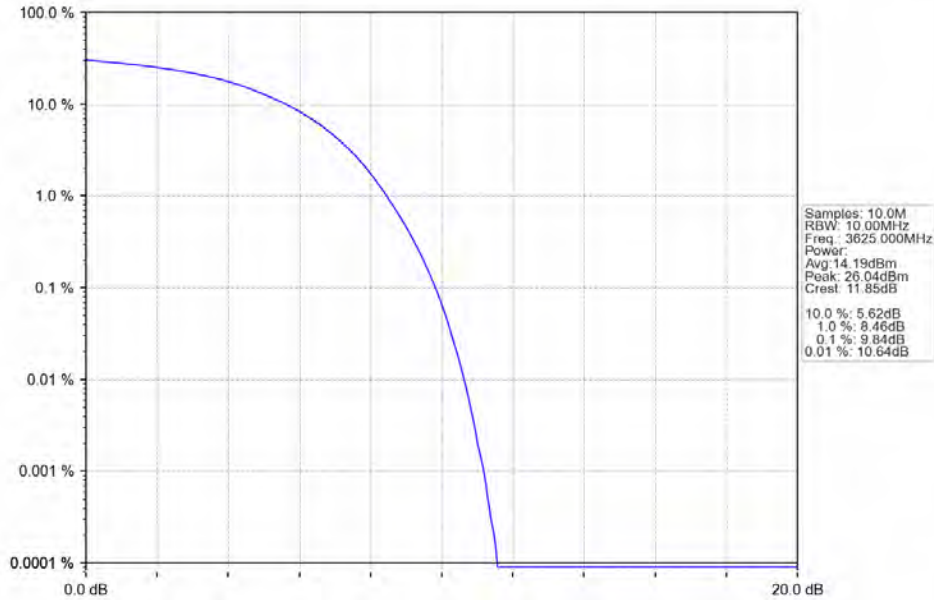


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Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



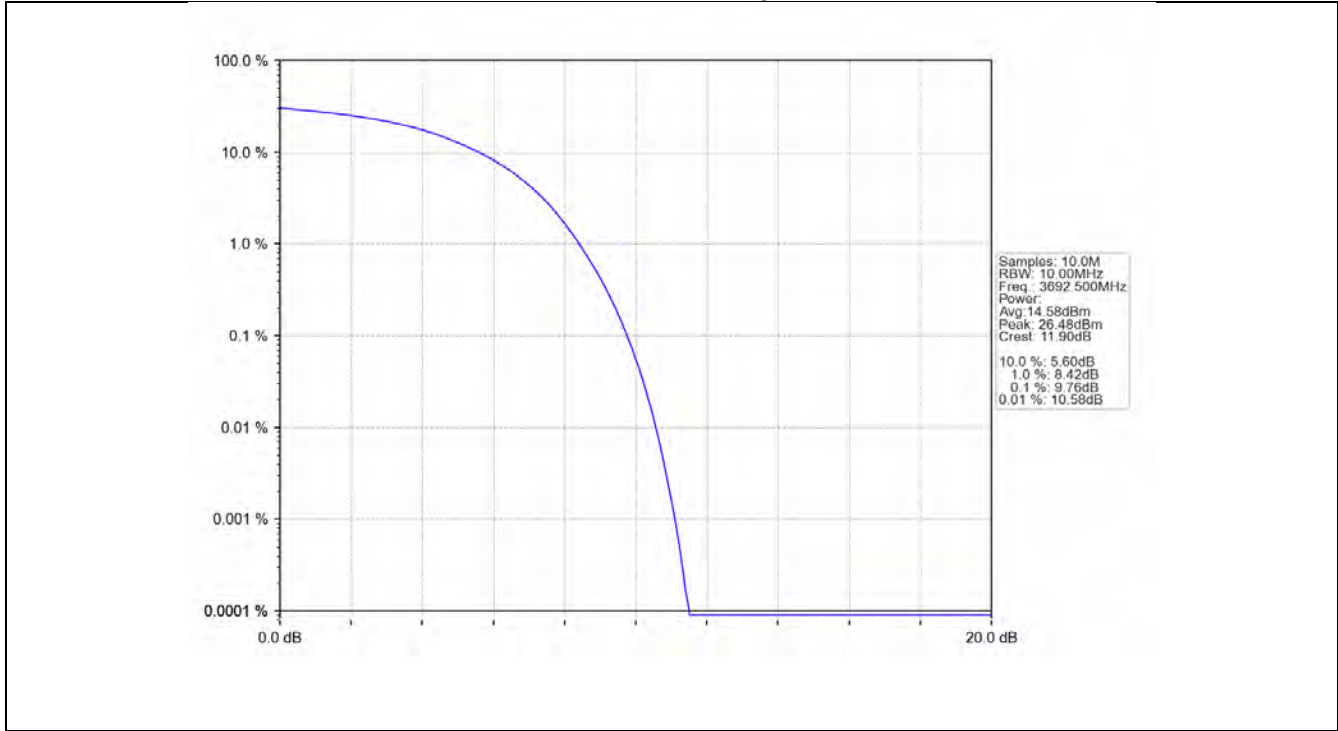
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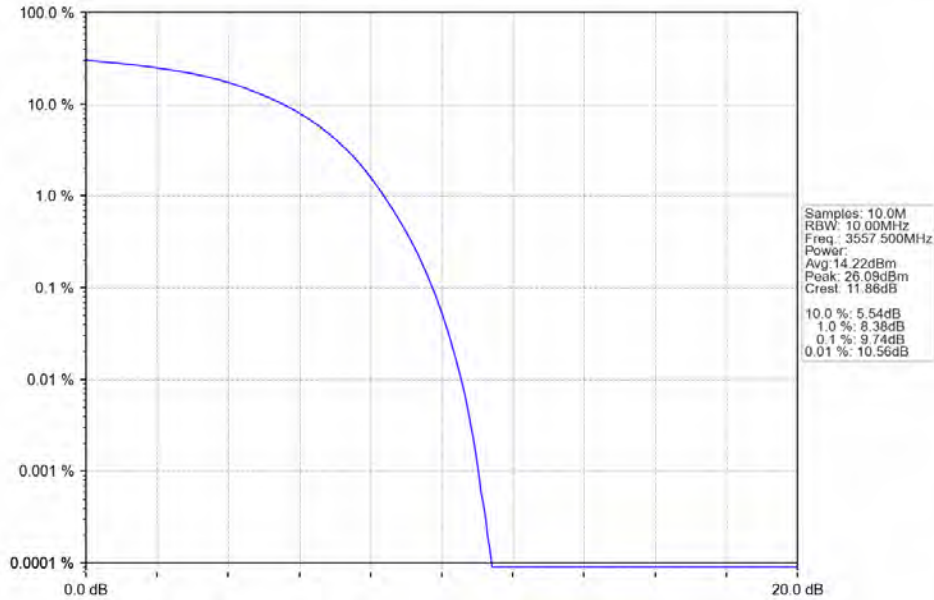


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Band48\_15MHz\_64QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



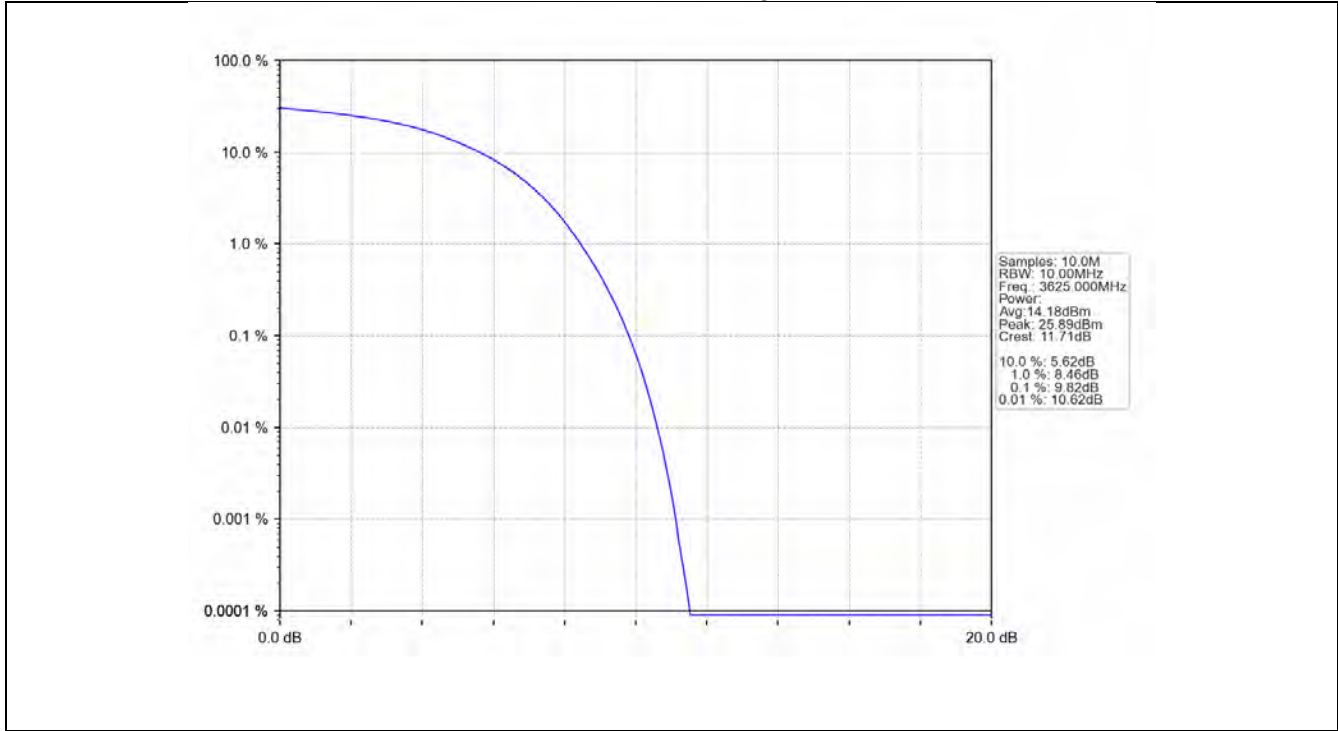
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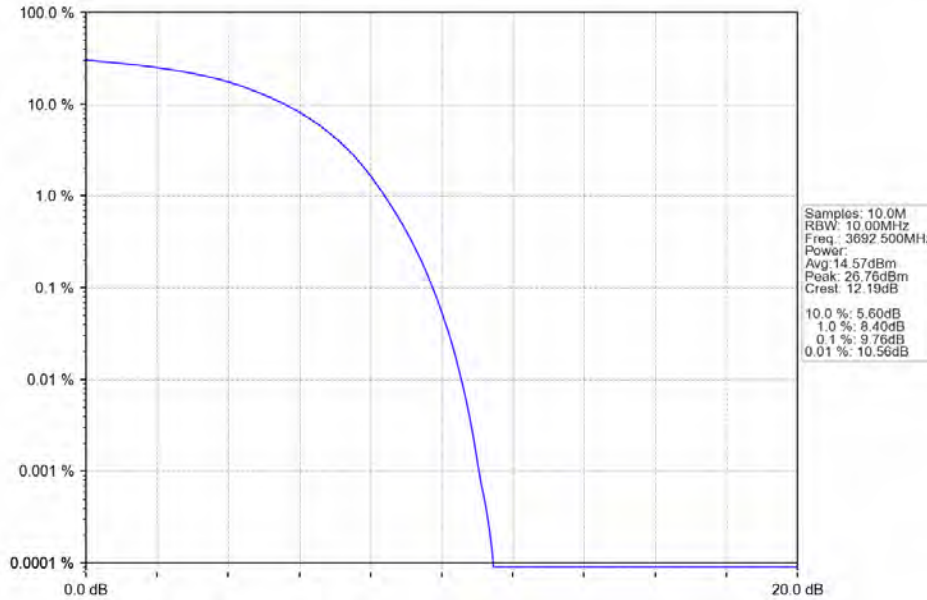


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Band48\_15MHz\_256QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



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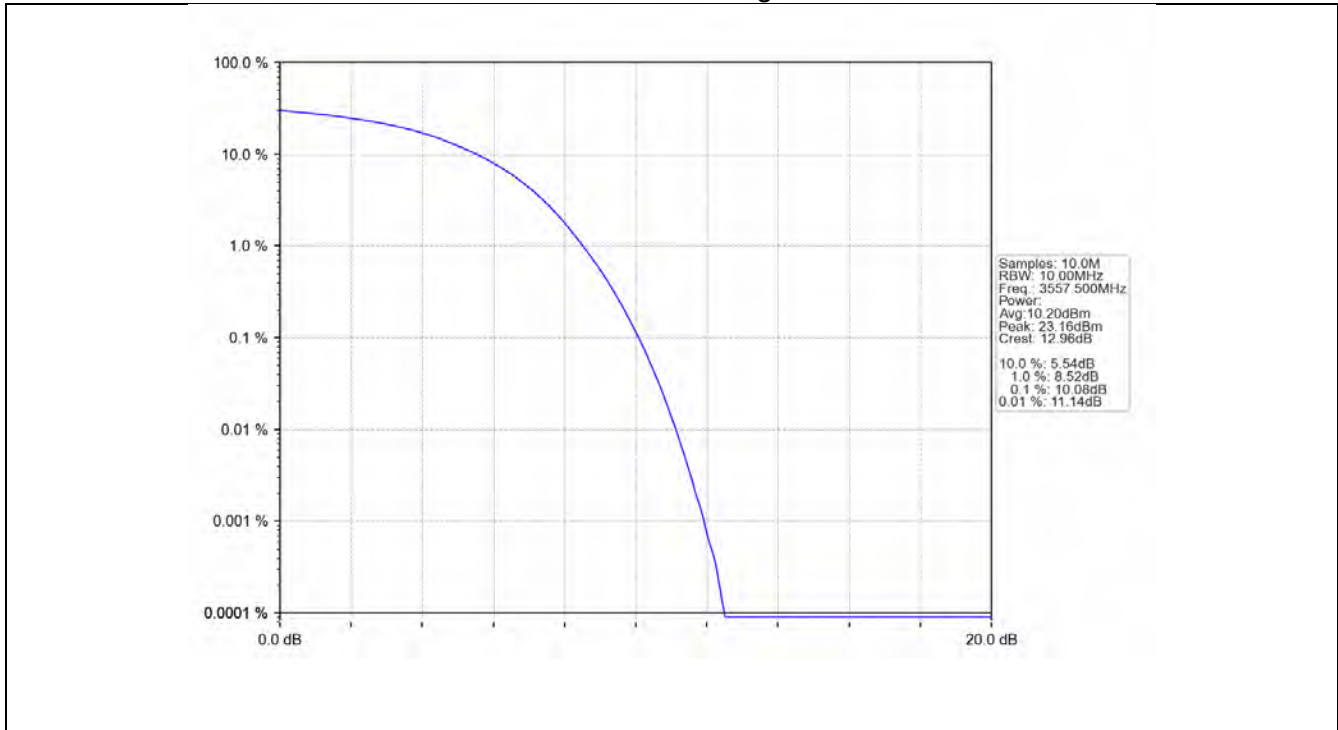
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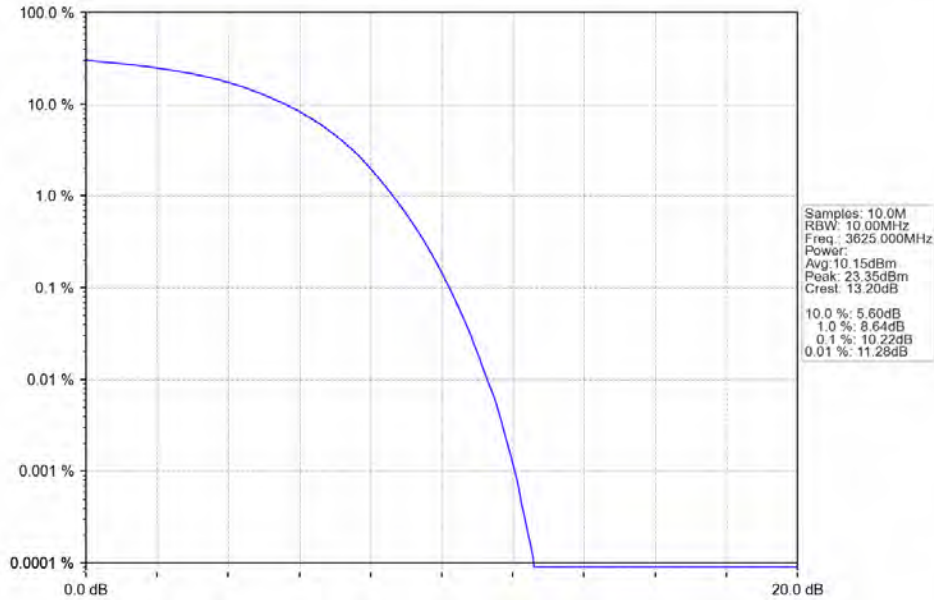


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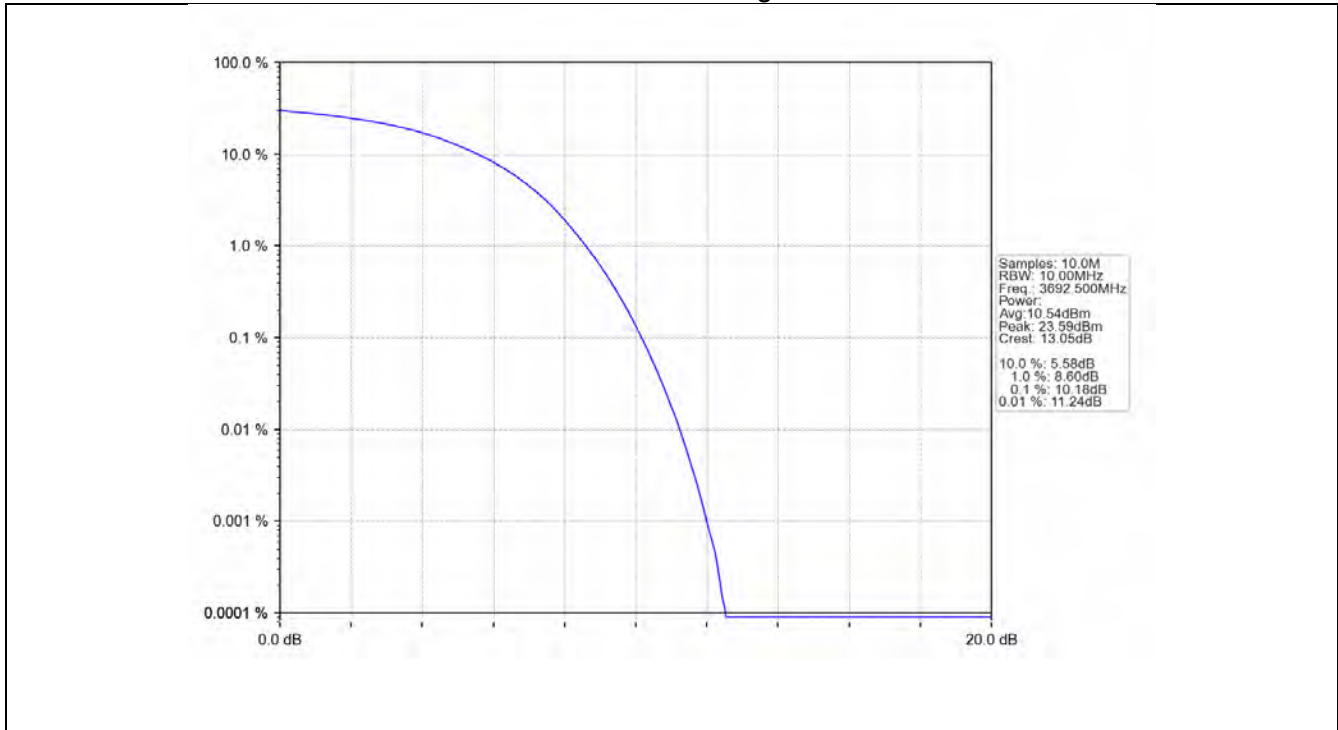
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4.4 B48\_20MHz

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

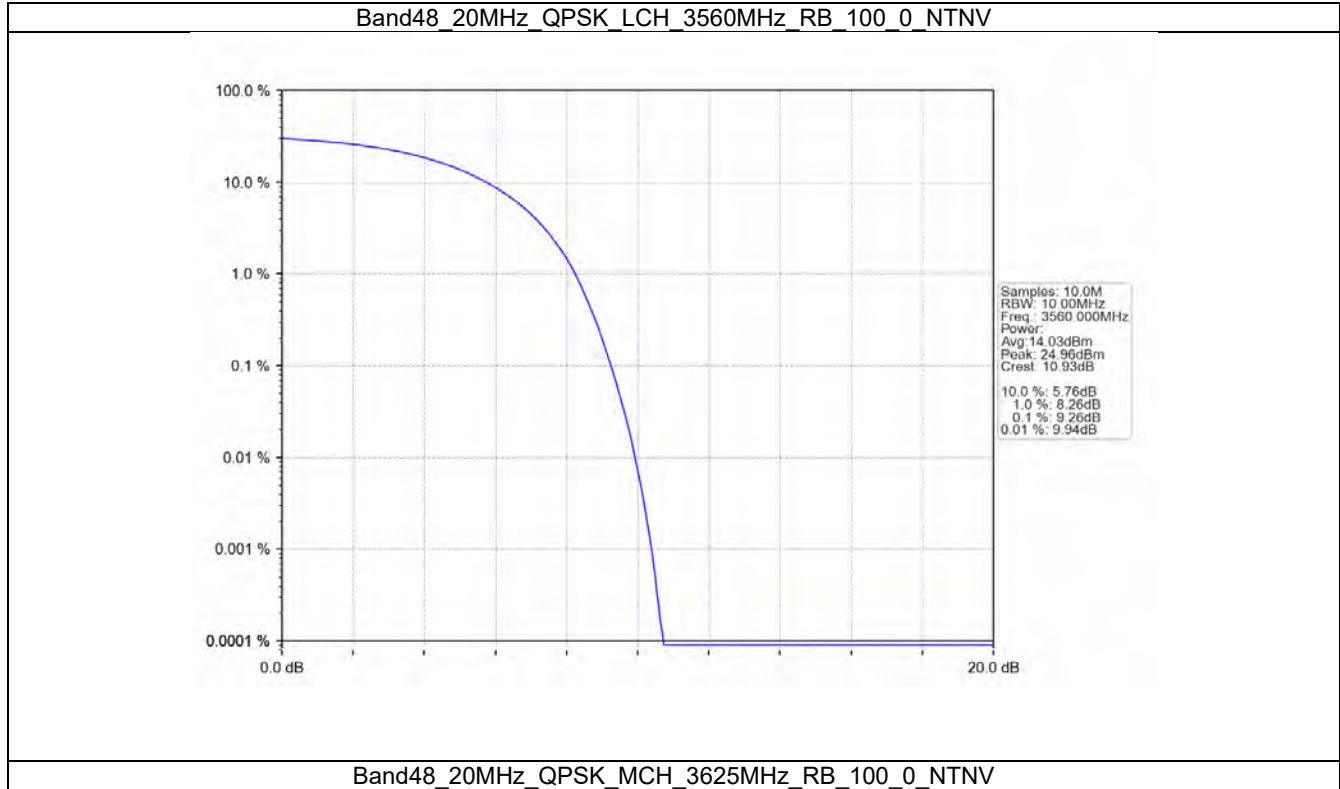


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4.4.2 Test Graph



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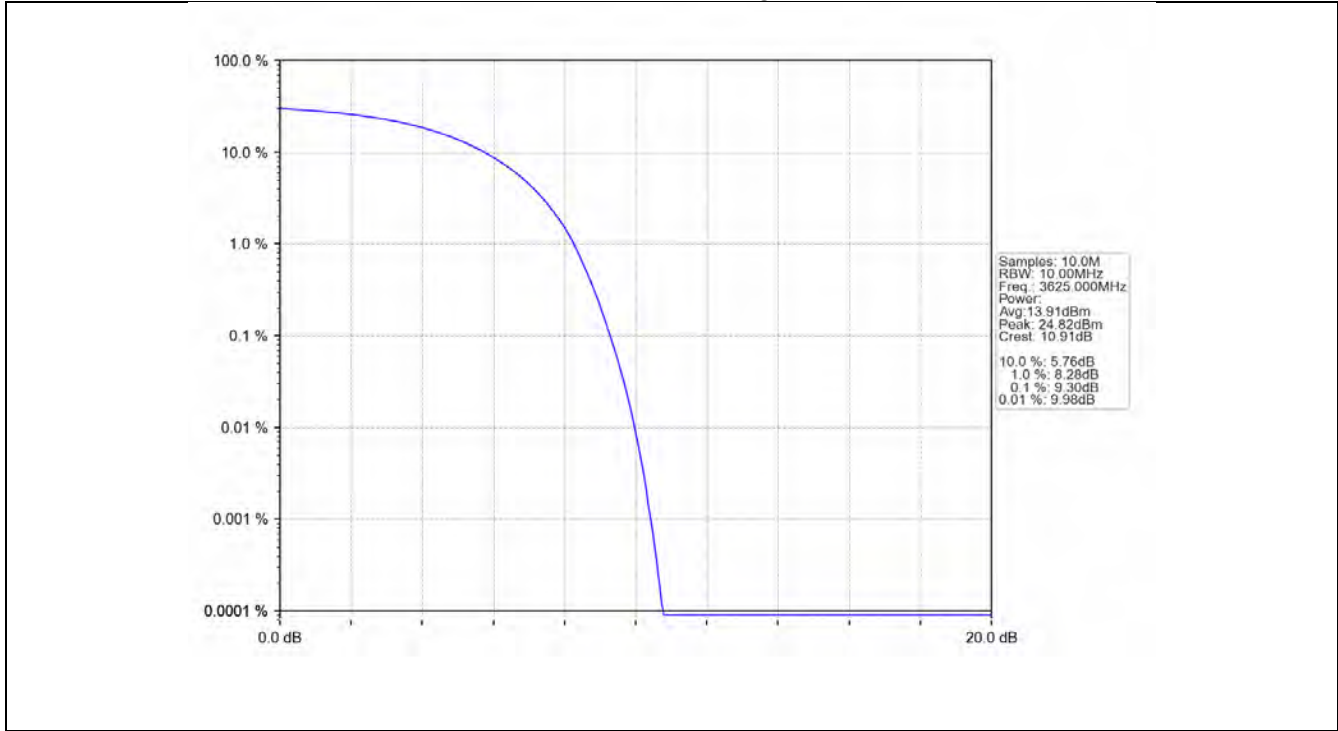
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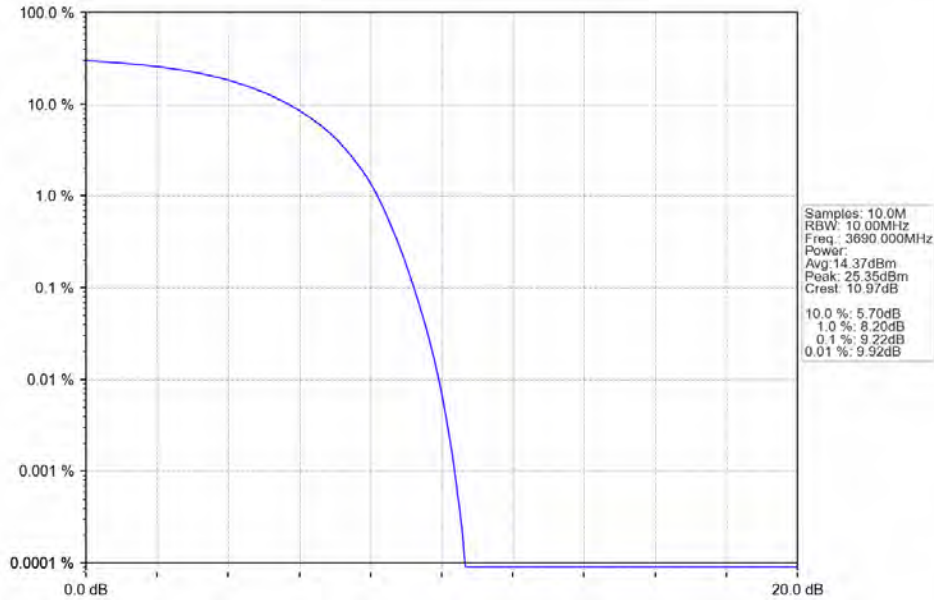


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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



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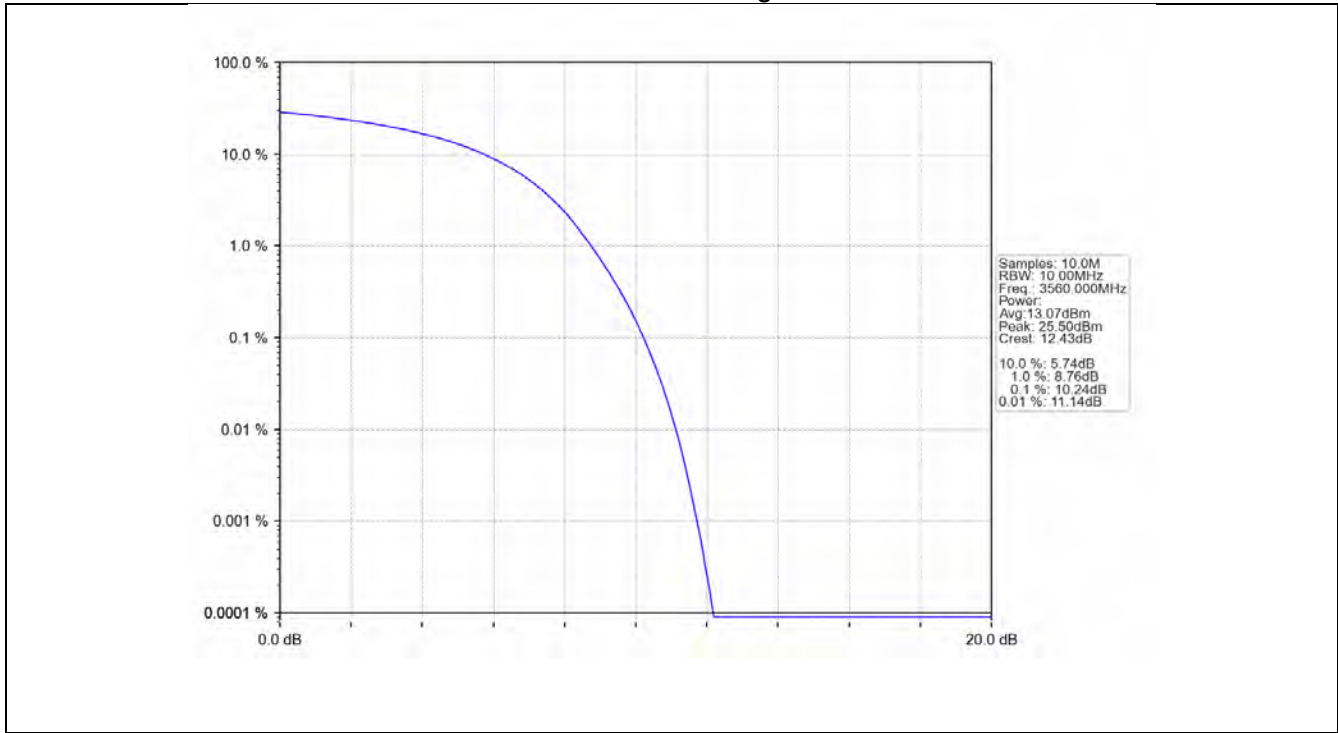
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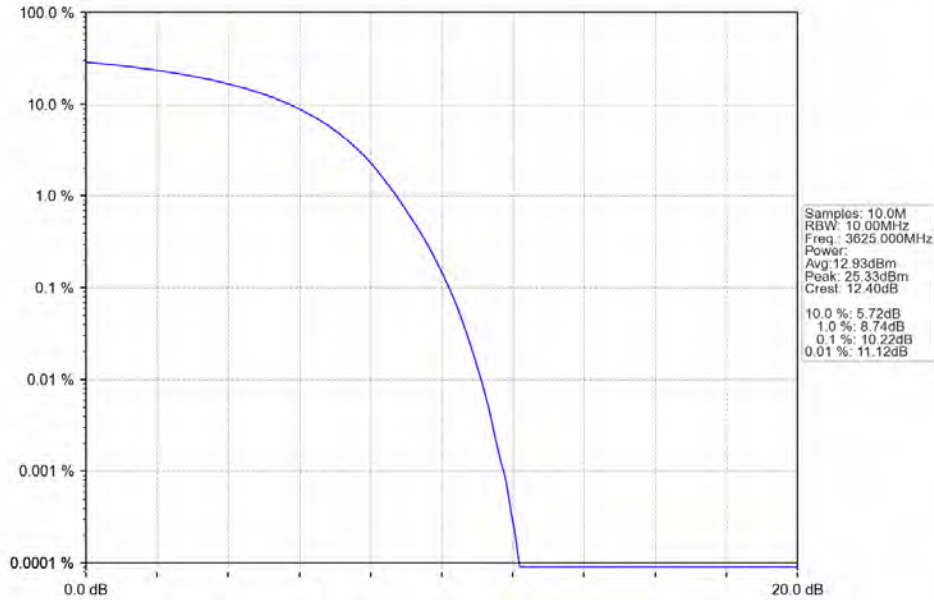


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Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



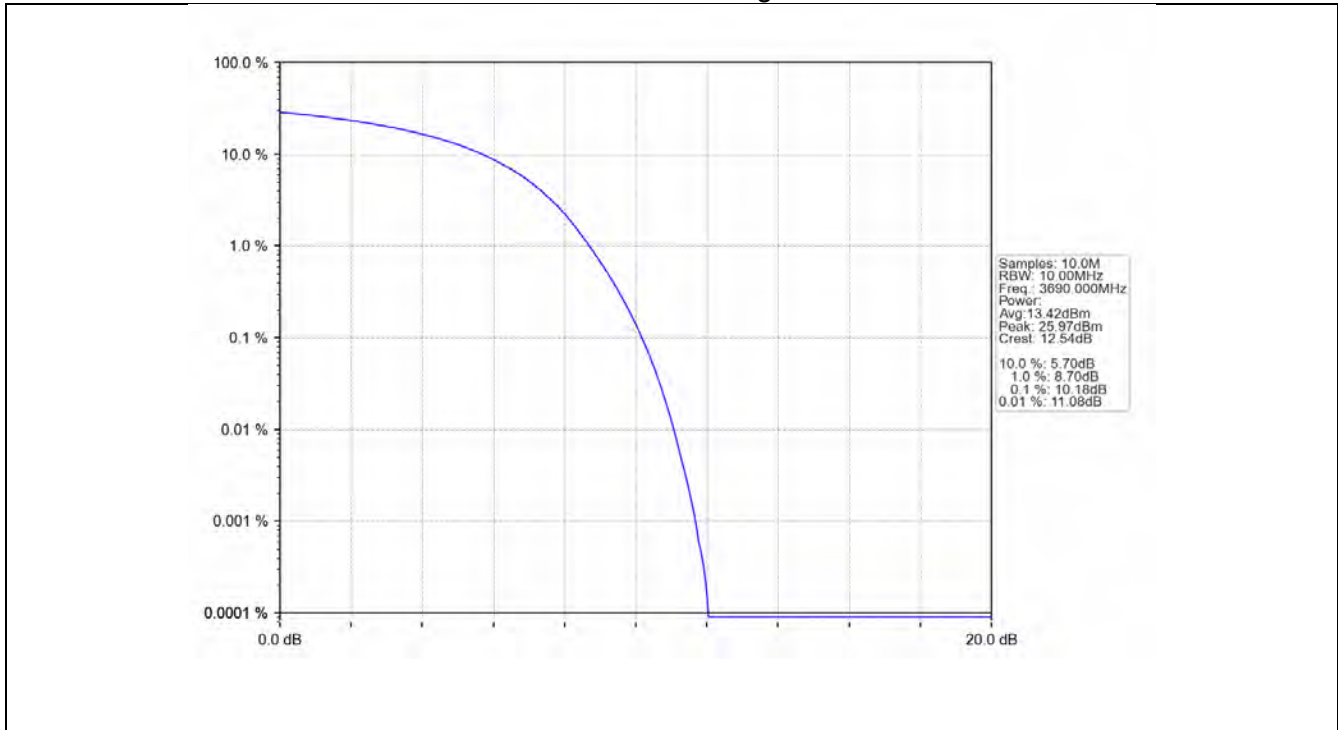
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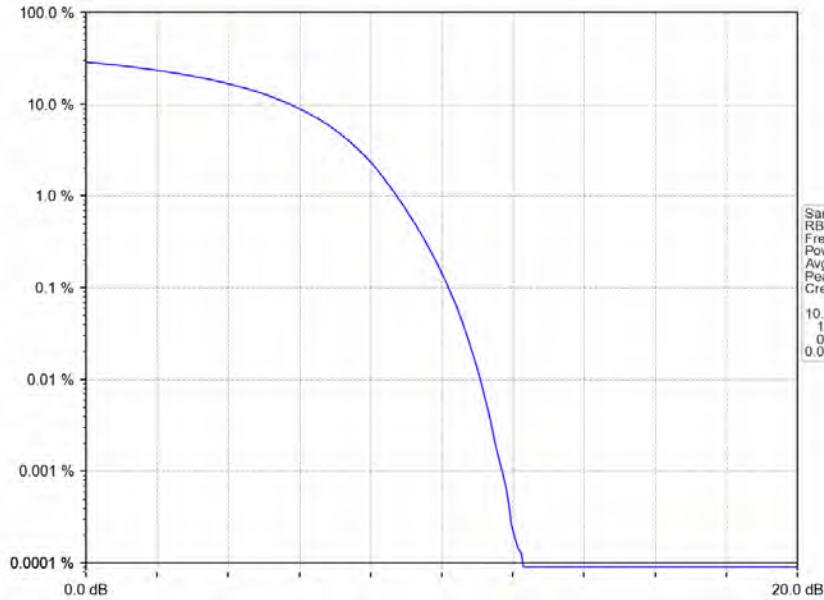


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Band48\_20MHz\_64QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_64QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



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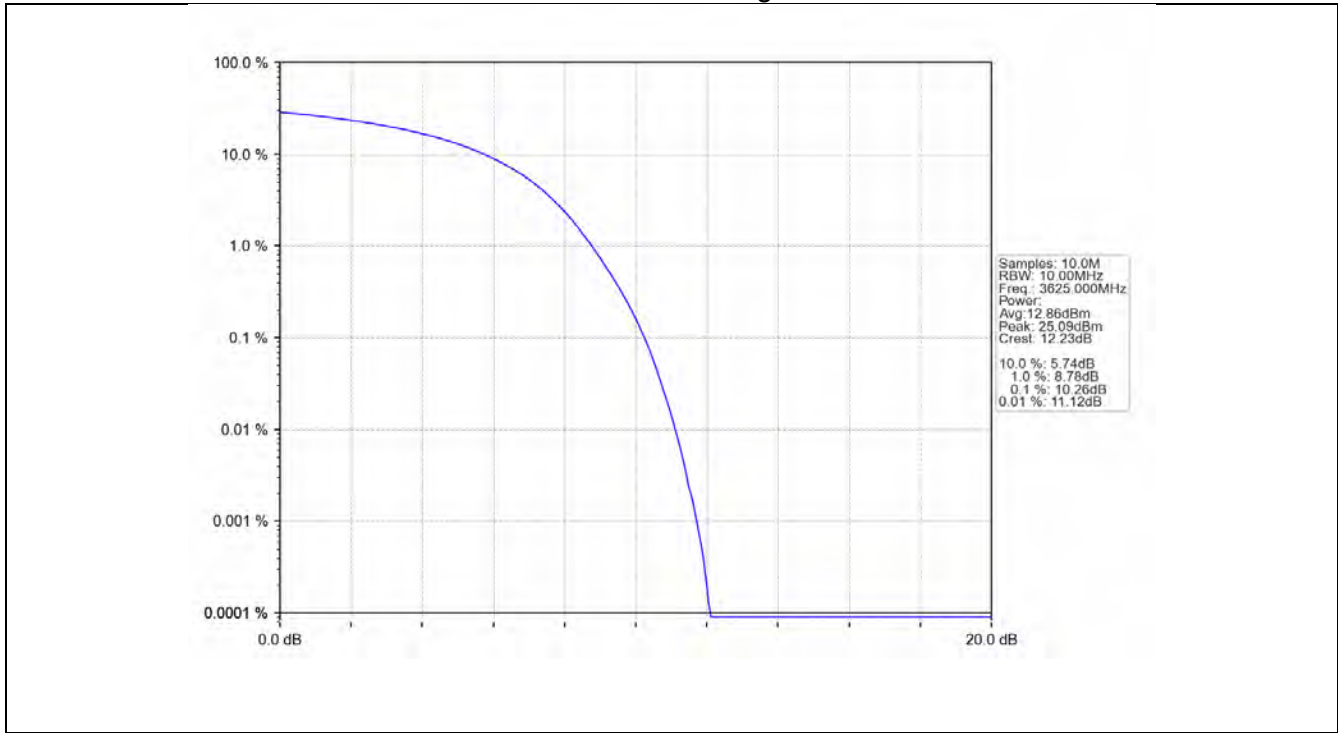
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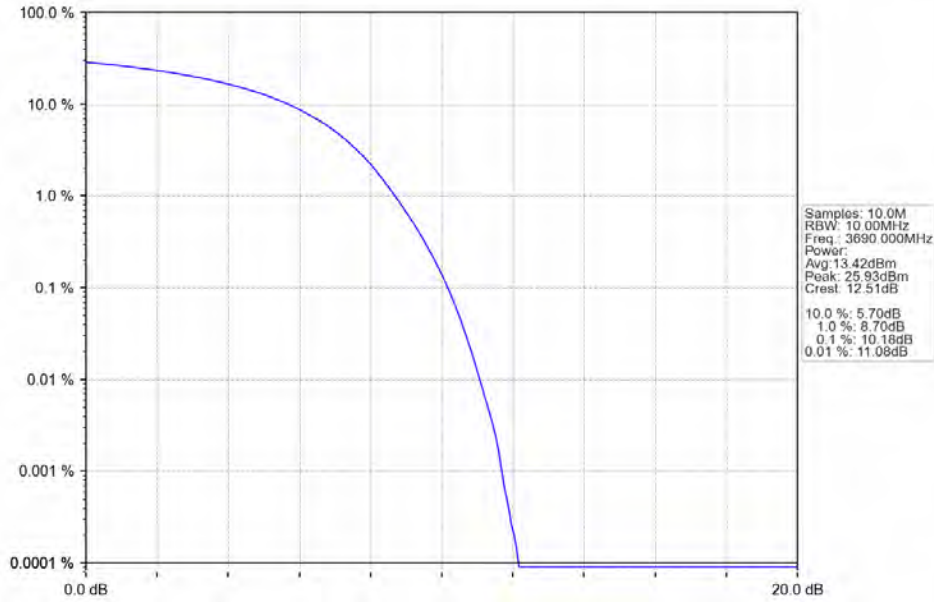


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Band48\_20MHz\_64QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_256QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



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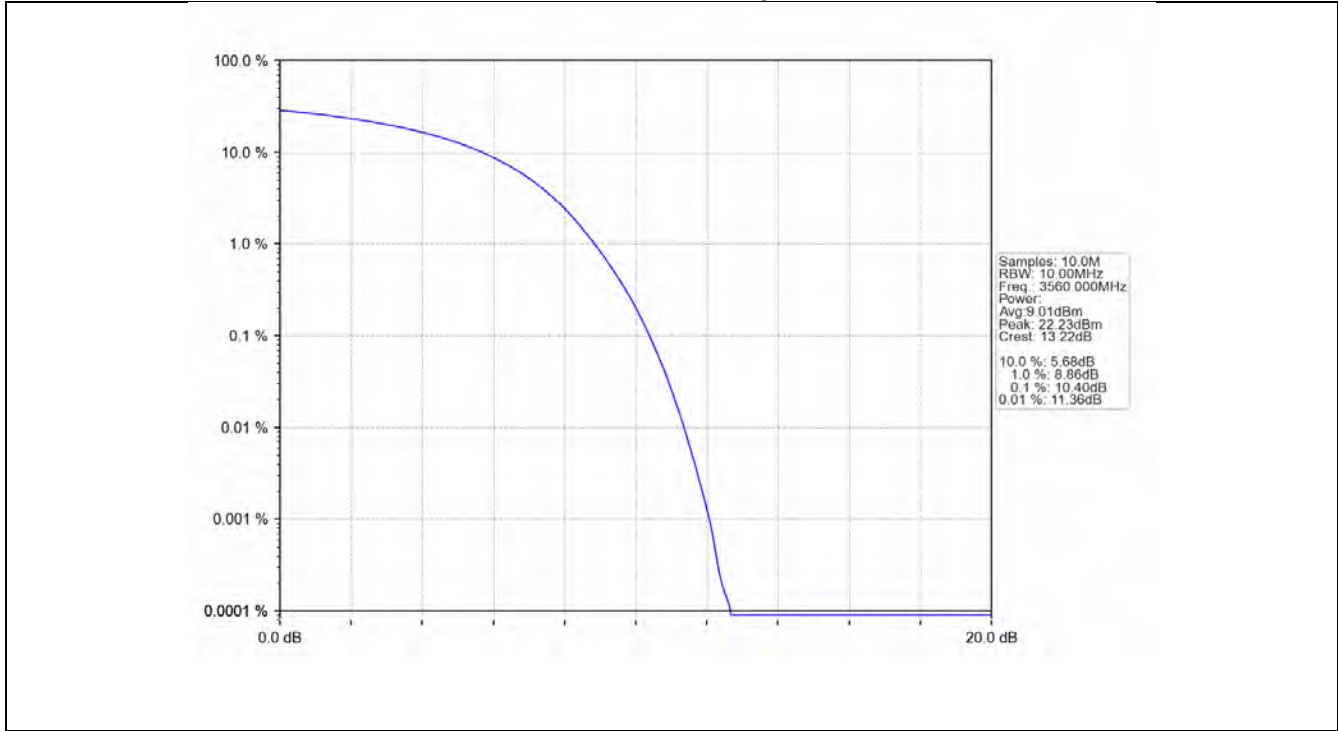
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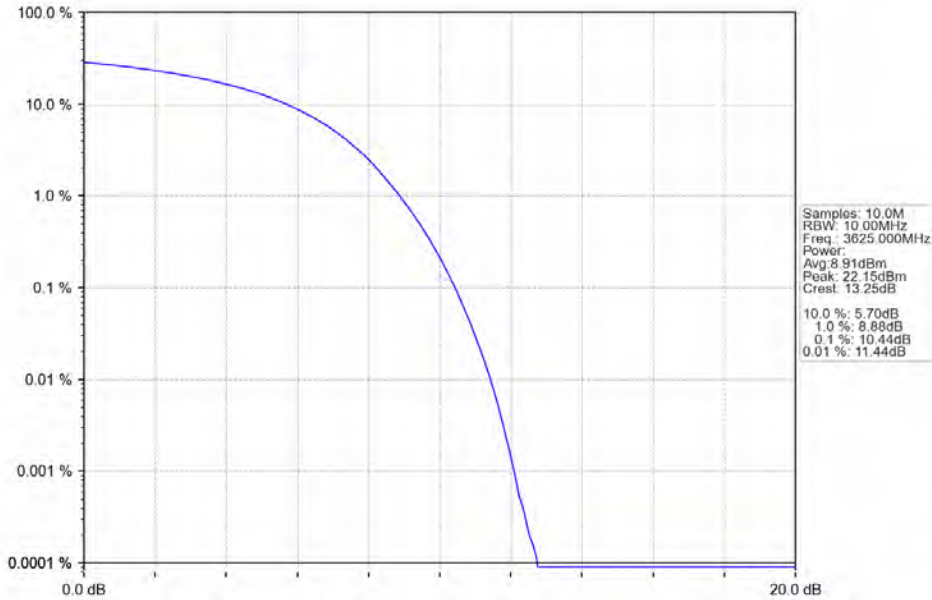


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Band48 20MHz 256QAM MCH 3625MHz RB 100 0 NTN



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



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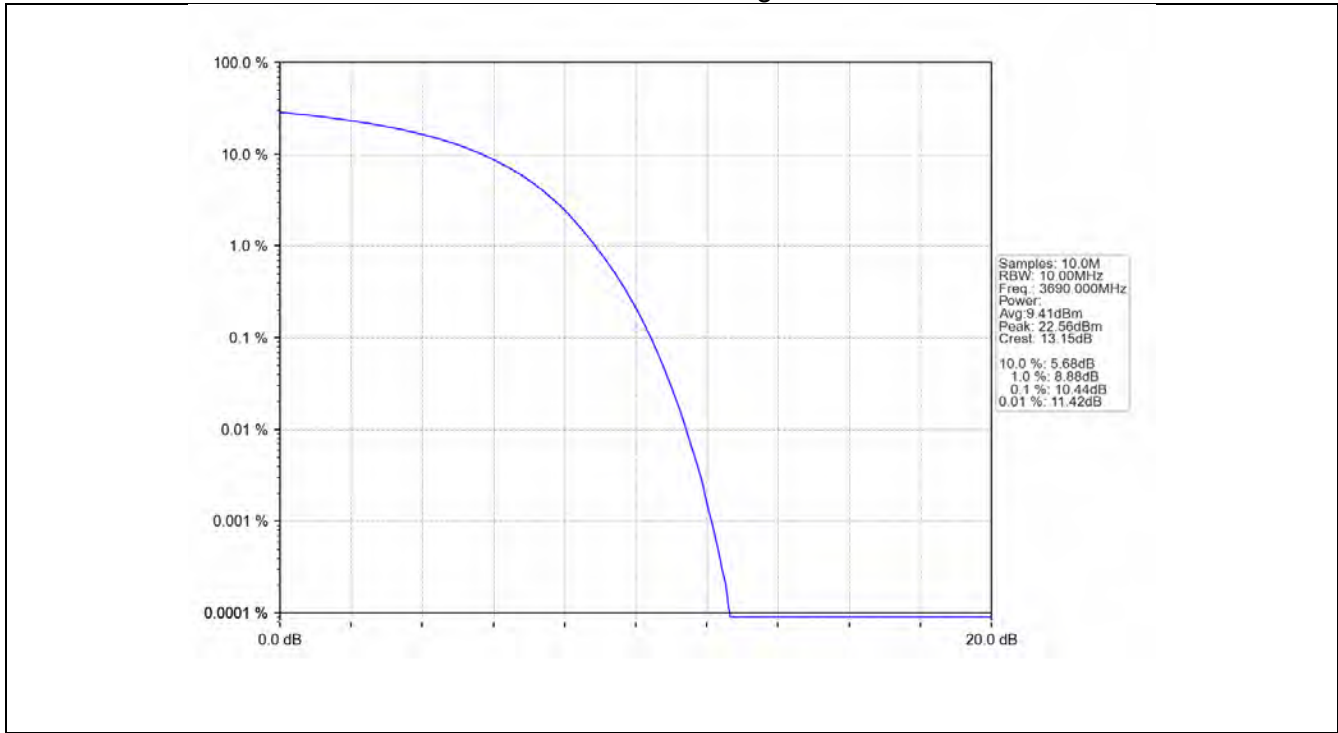
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5. Spurious Emission & Band Edges

5.1 B48\_5MHz

5.1.1 Test Result

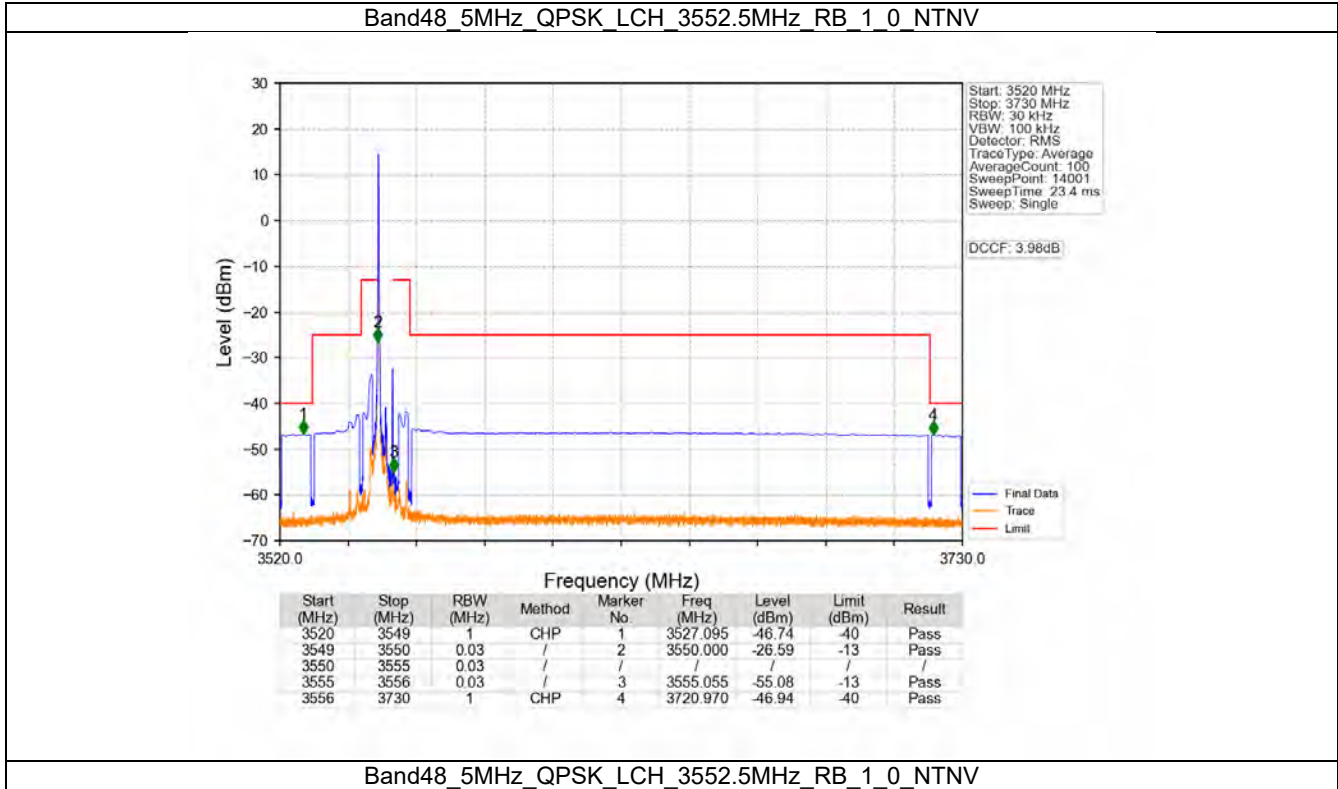
Table with columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Spurious Emission (Result, Limit), Verdict. Data includes QPSK modulation at frequencies 3552.5 and 3625, and 3697.5 MHz with various RB allocations.



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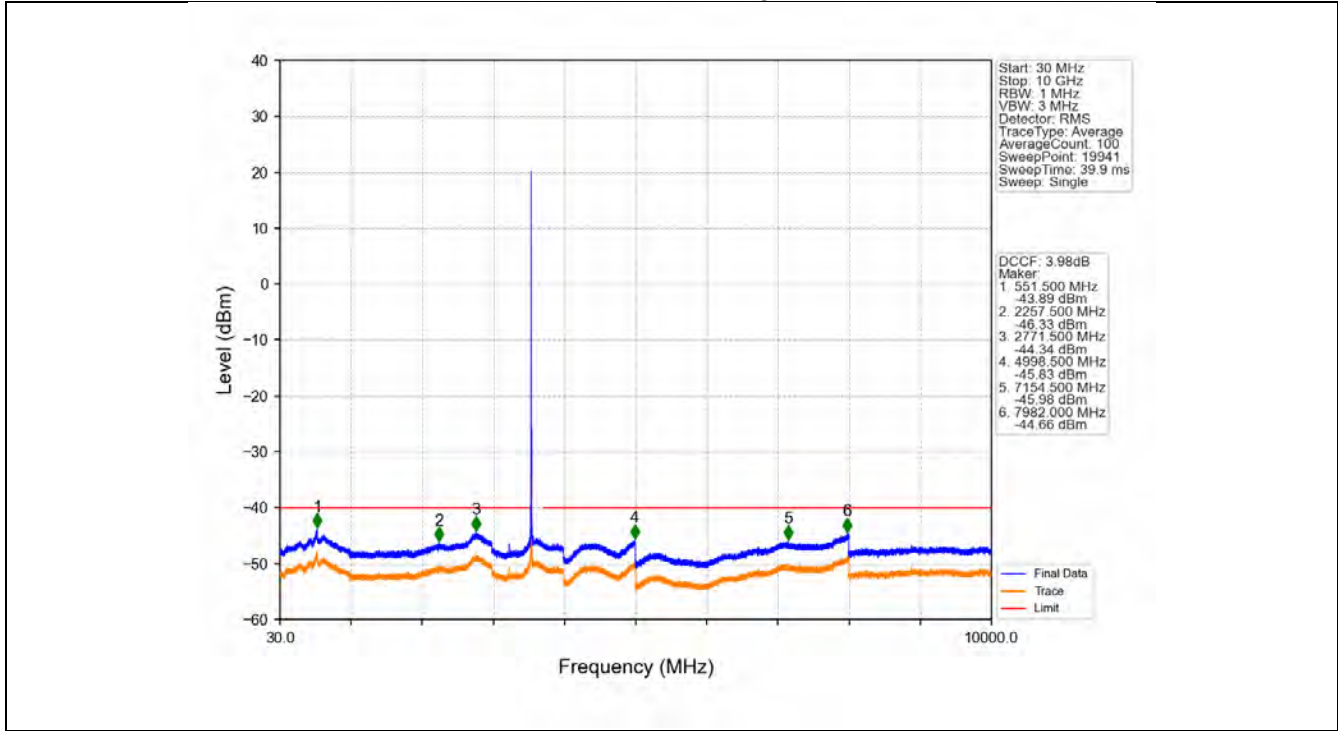
5.1.2 Test Graph



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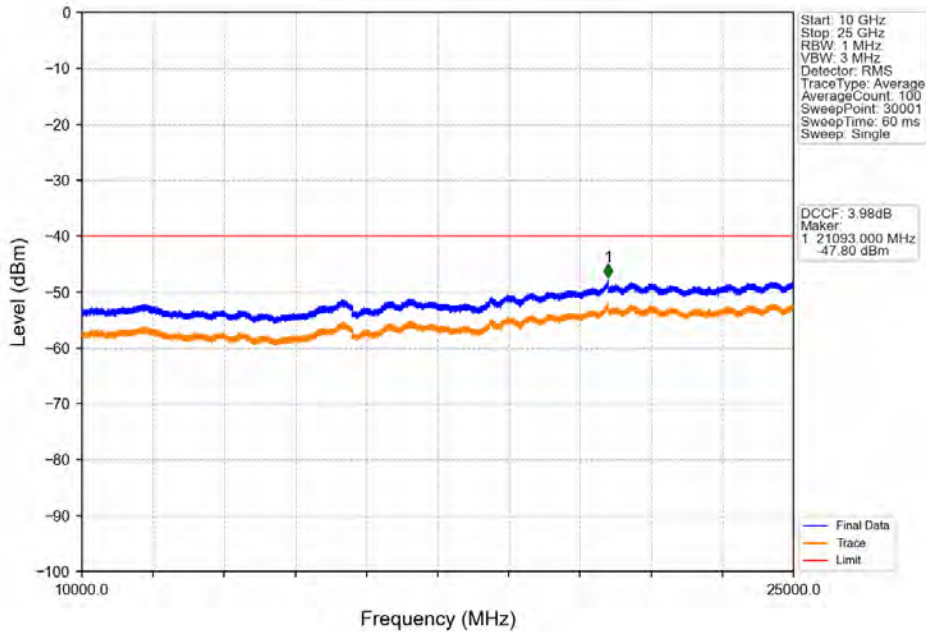


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Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_1\_0\_NTNV



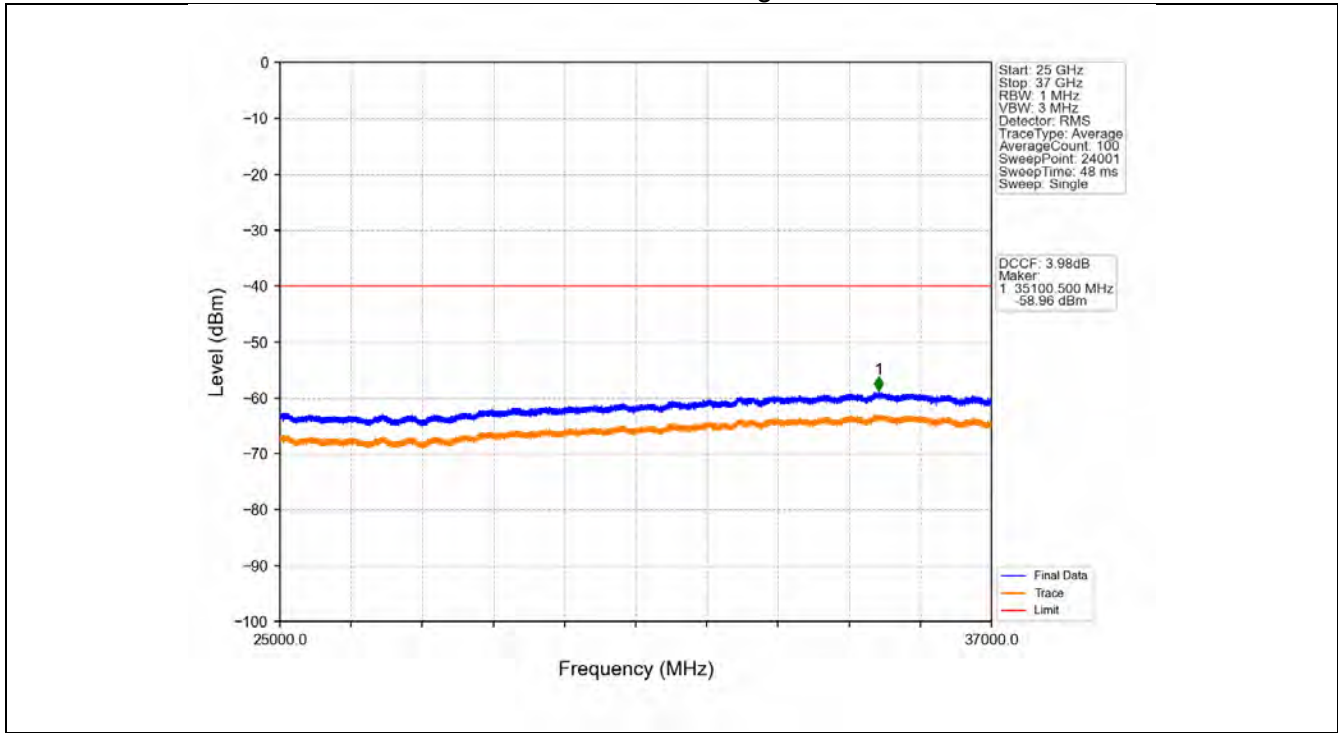
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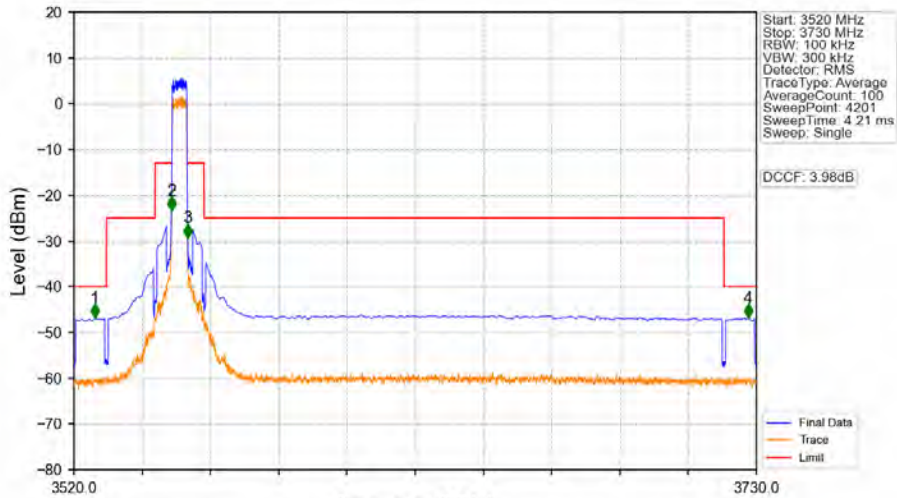


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Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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	/	/	/	/	/	/
3555	3556	0.1	/	3	3555.000	-29.31	-13	Pass
3556	3730	1	CHP	4	3727.500	-46.86	-40	Pass

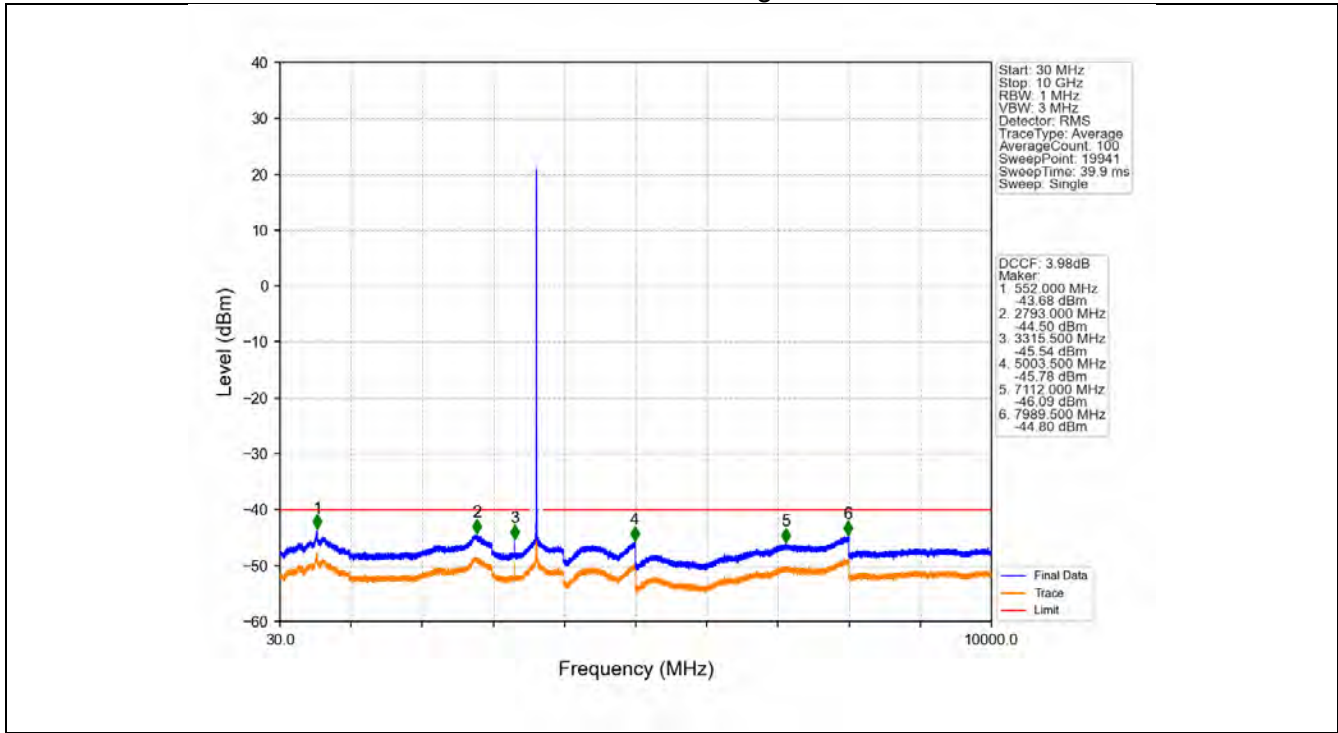
Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



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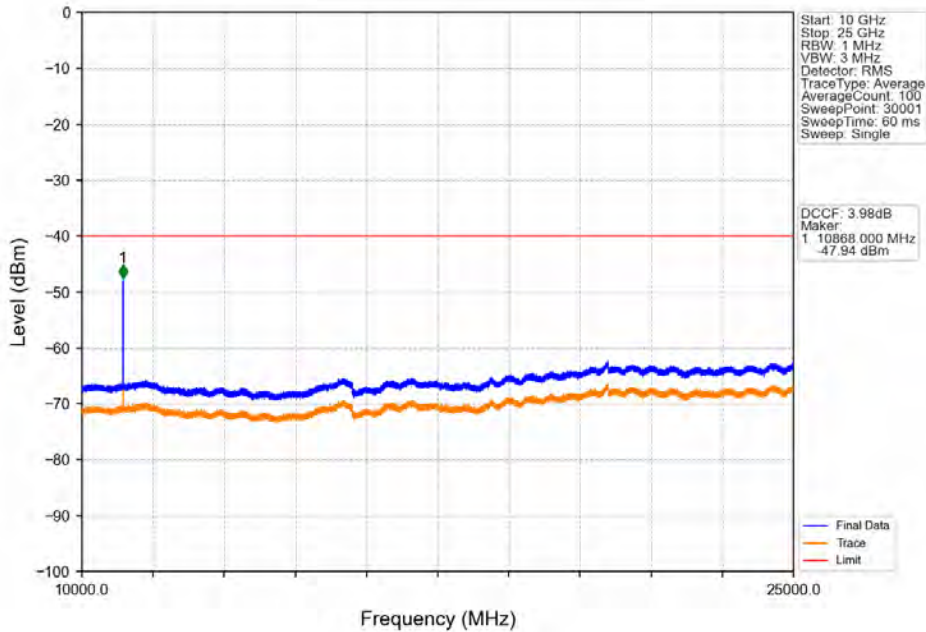


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Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



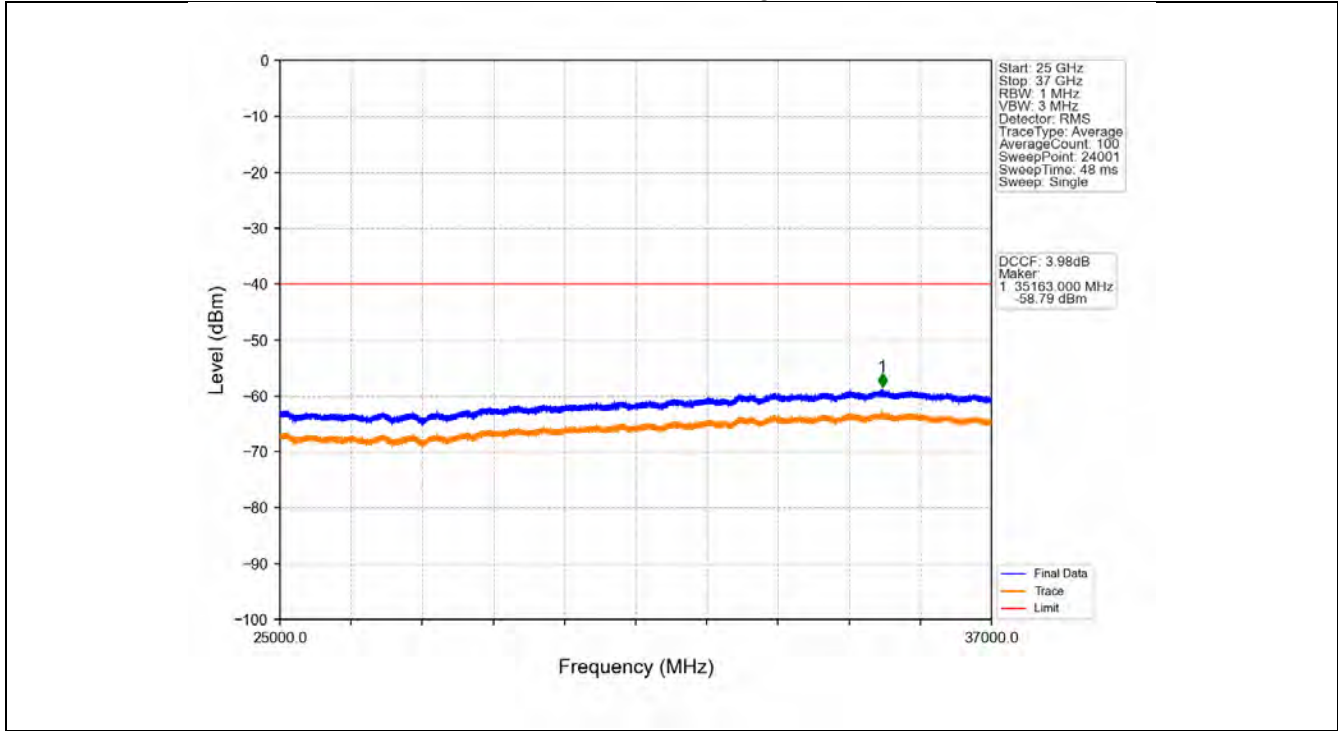
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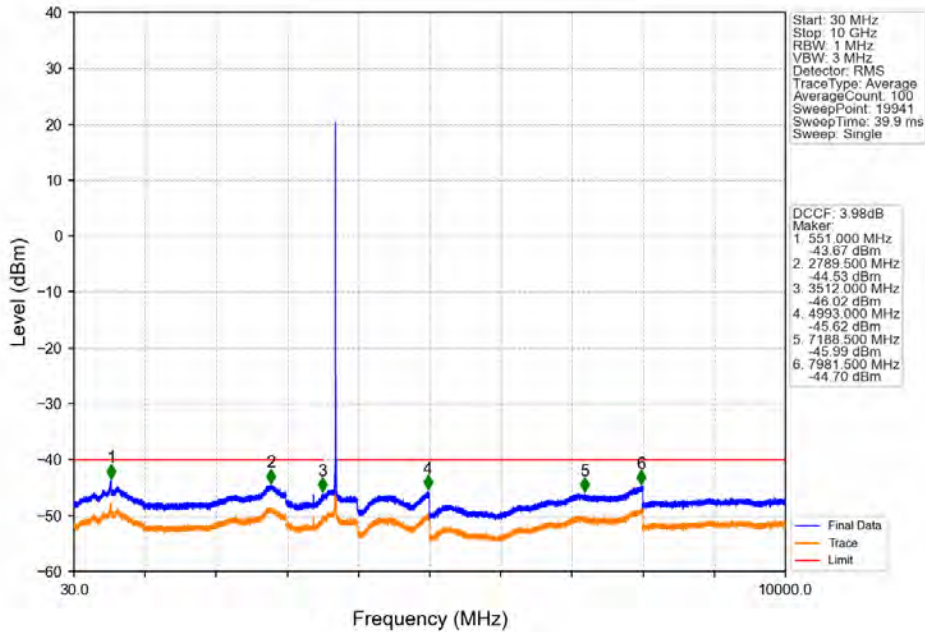


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV

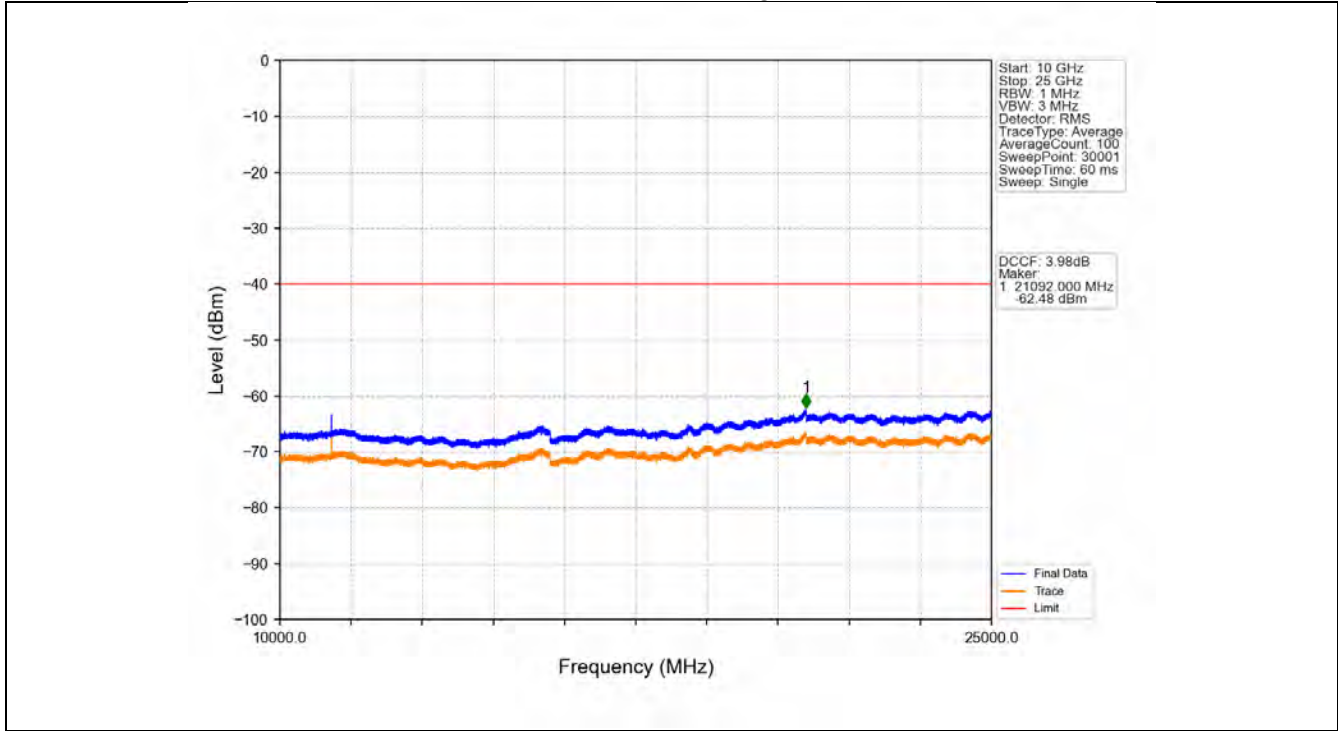


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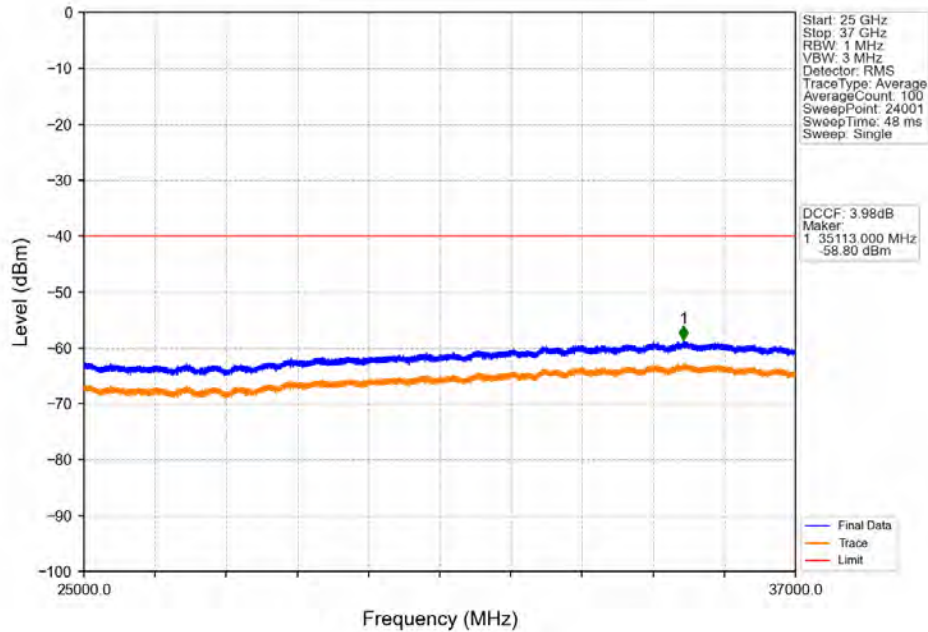


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_24\_NTNV

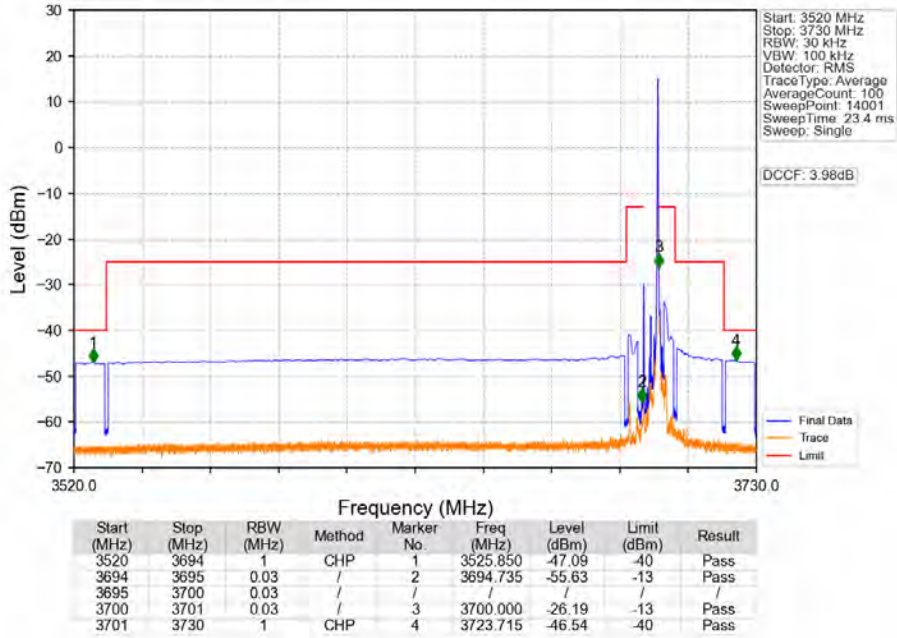


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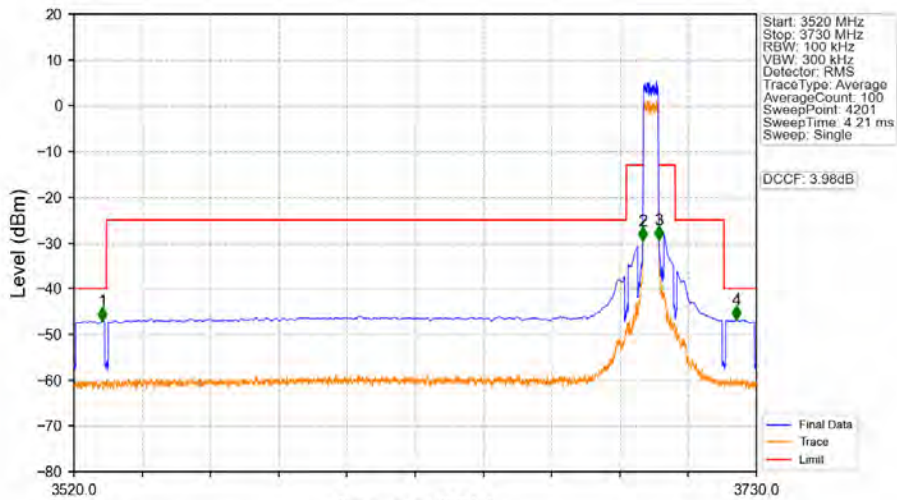
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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



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	/	/	/	/	/	/
3700	3701	0.1	/	3	3700.000	-29.35	-13	Pass
3701	3730	1	CHP	4	3723.900	-46.83	-40	Pass



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5.2 B48\_10MHz

5.2.1 Test Result

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

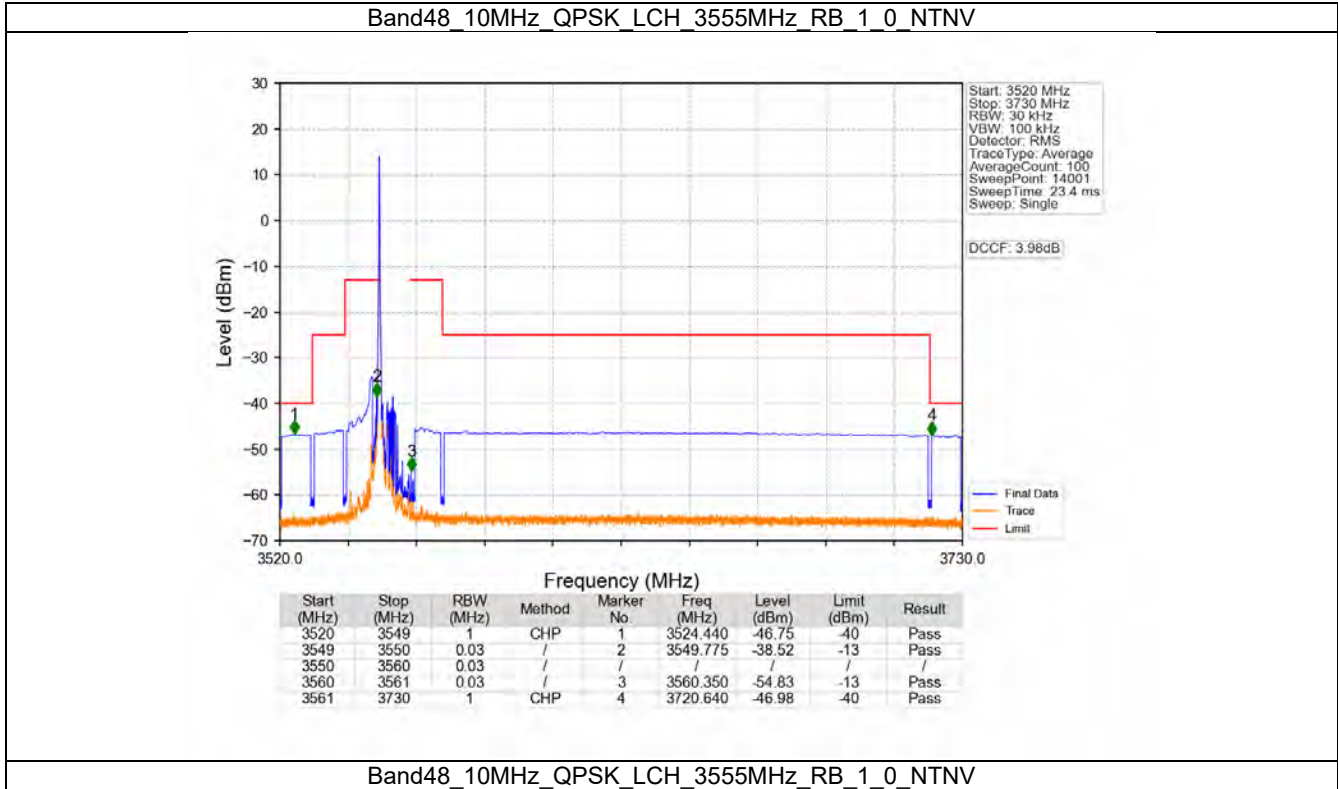


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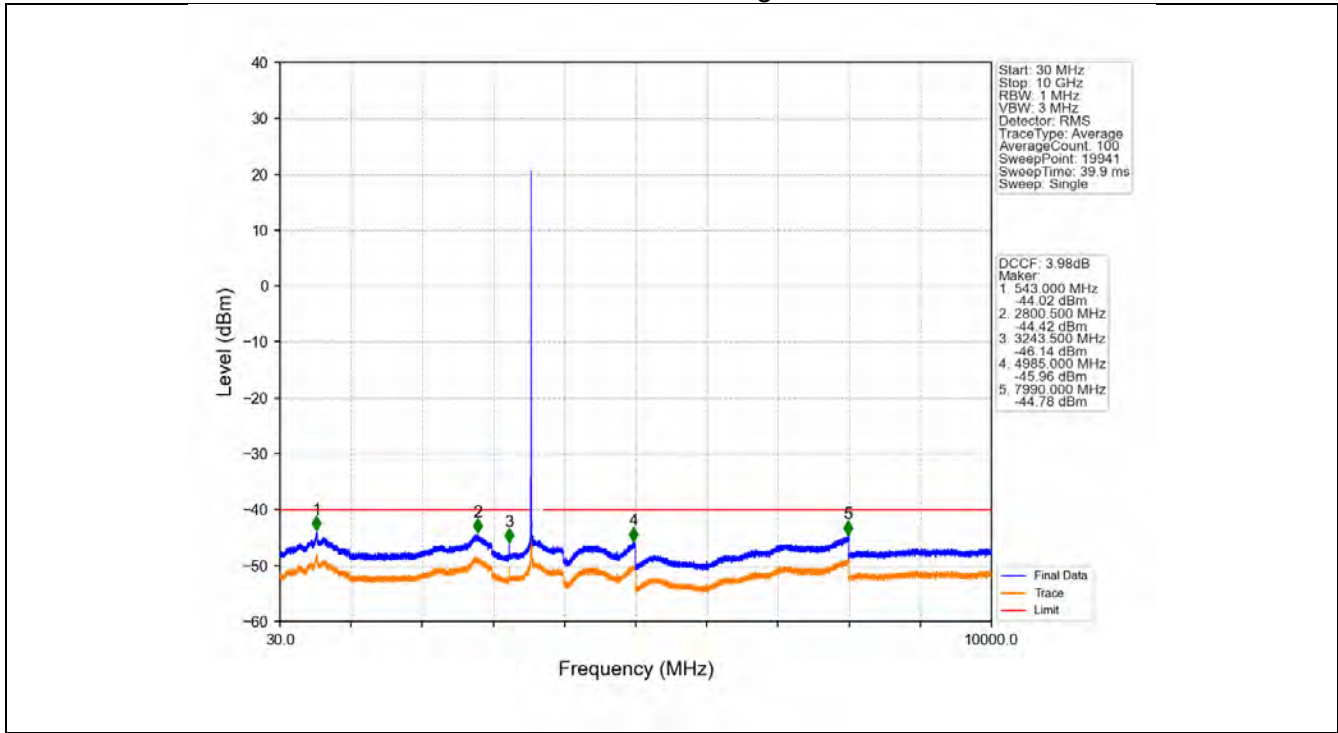
5.2.2 Test Graph



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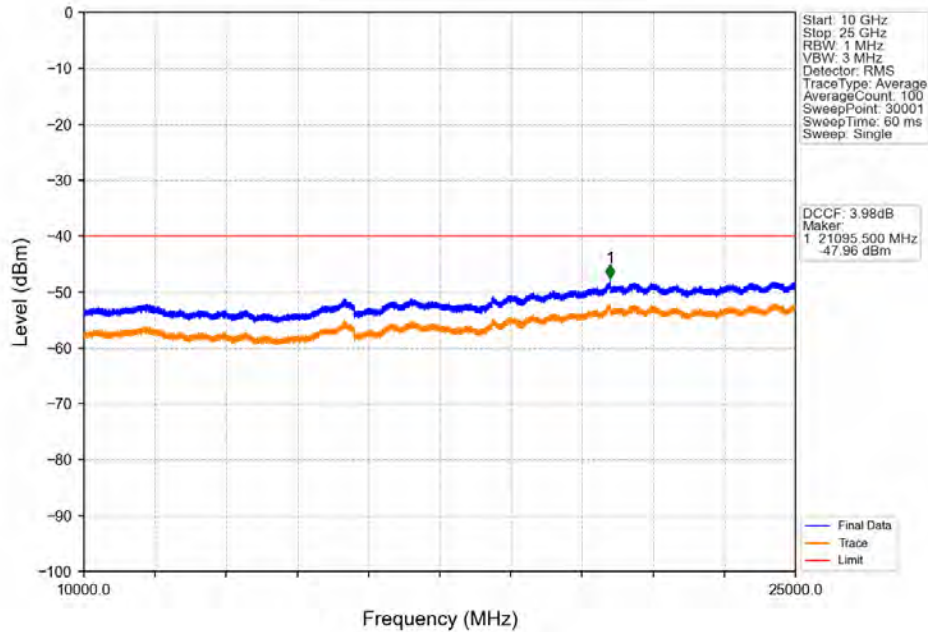
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Band48 10MHz QPSK LCH 3555MHz RB 1 0 NTN



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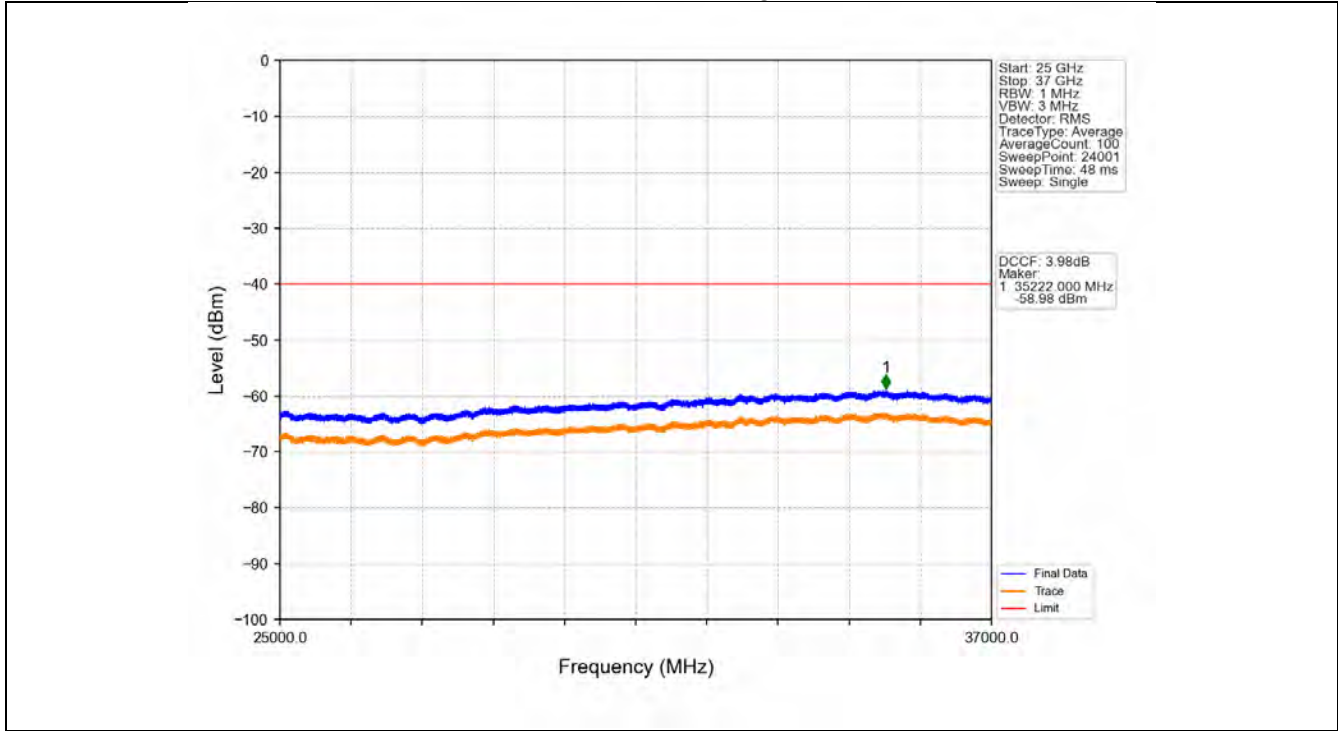
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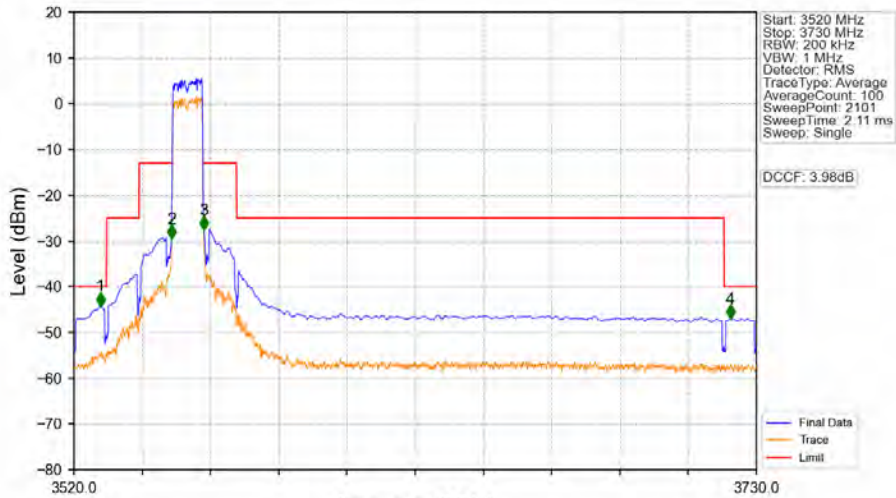


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Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



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	3561.000	-27.63	-13	Pass
3561	3730	1	CHP	4	3722.000	-47.03	-40	Pass

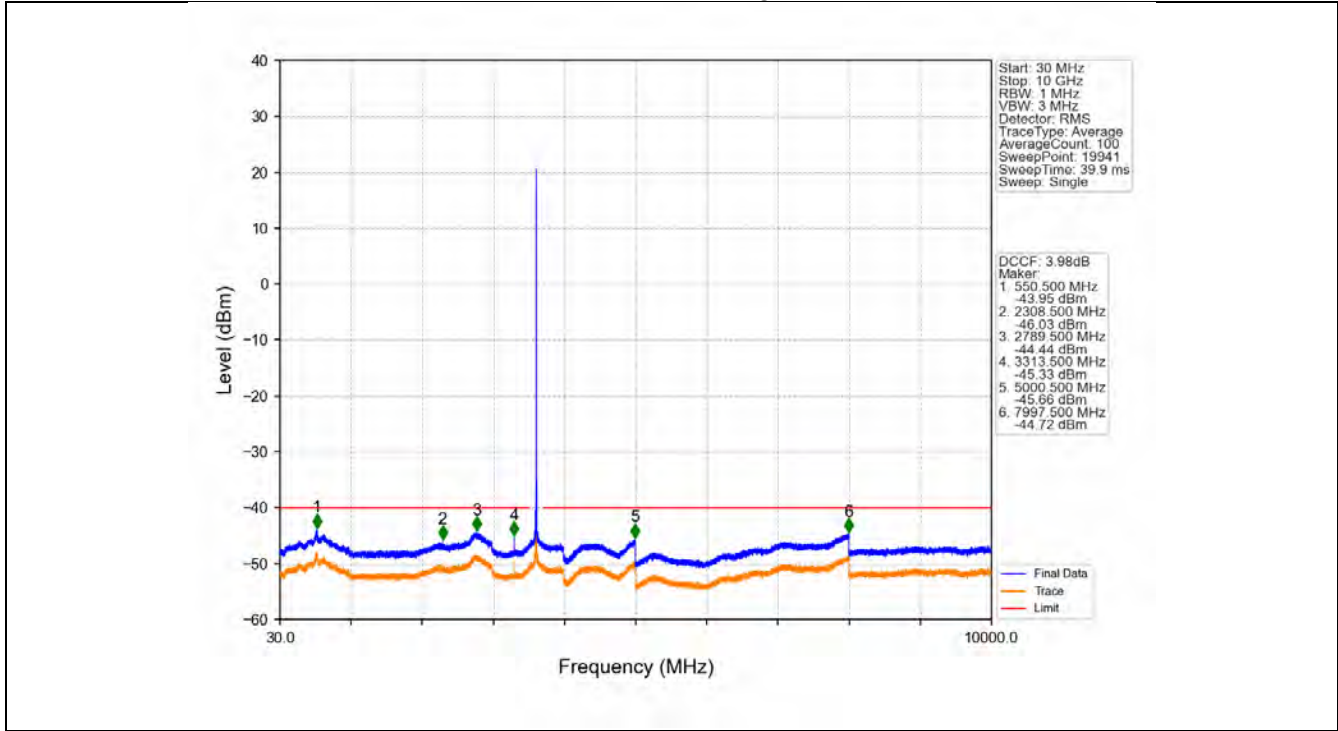
Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



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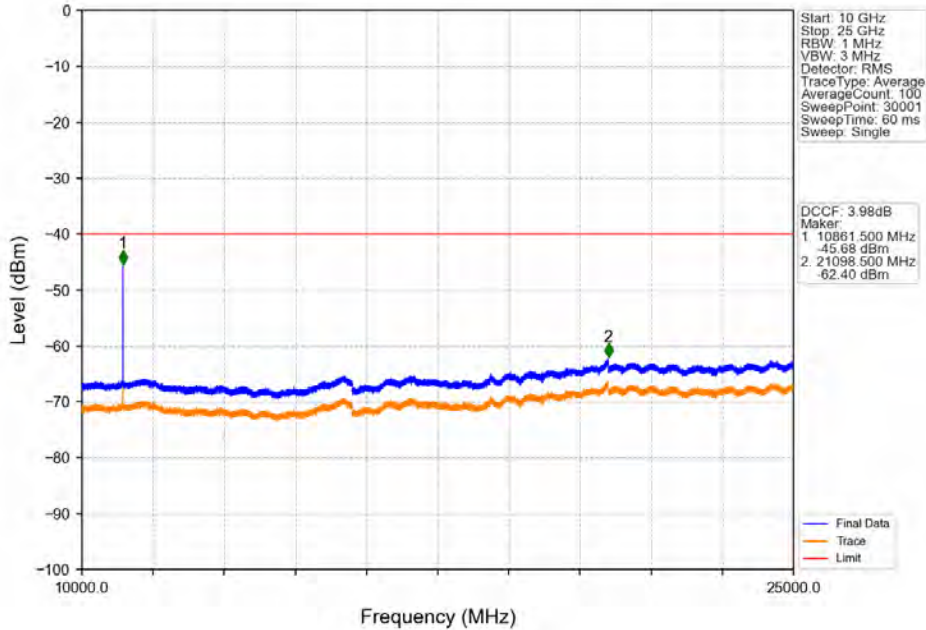


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Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



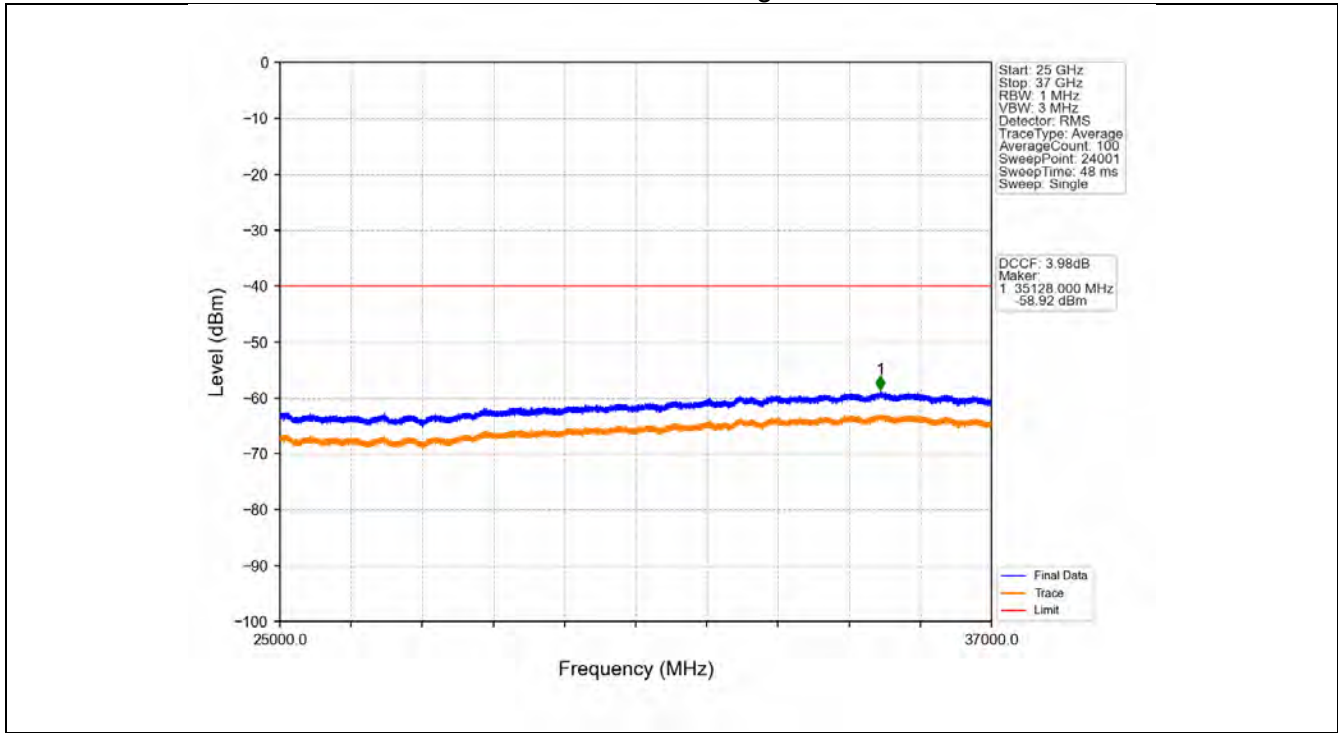
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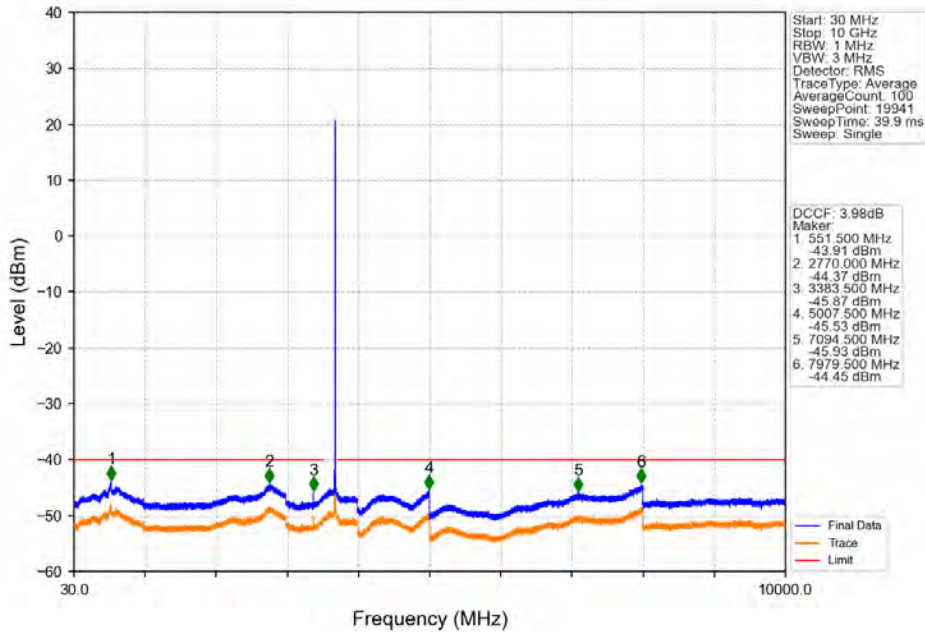


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Rev.: 01

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Band48 10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0 NTN



Band48 10MHz\_QPSK\_HCH\_3695MHz\_RB\_1\_0 NTN

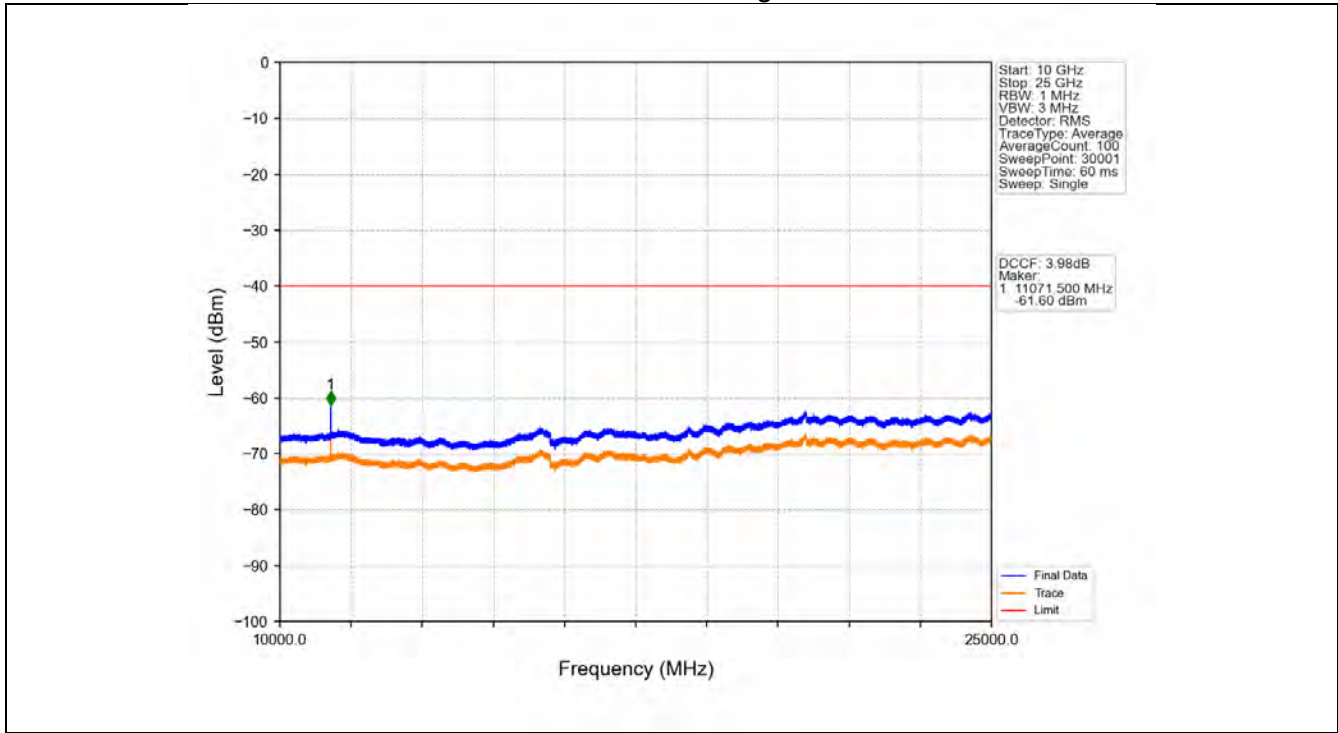


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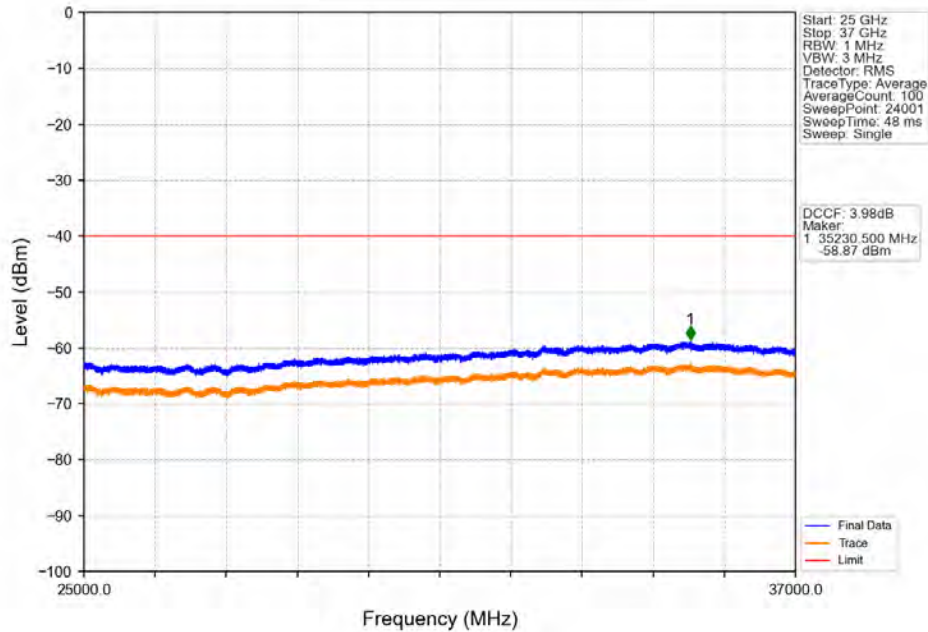
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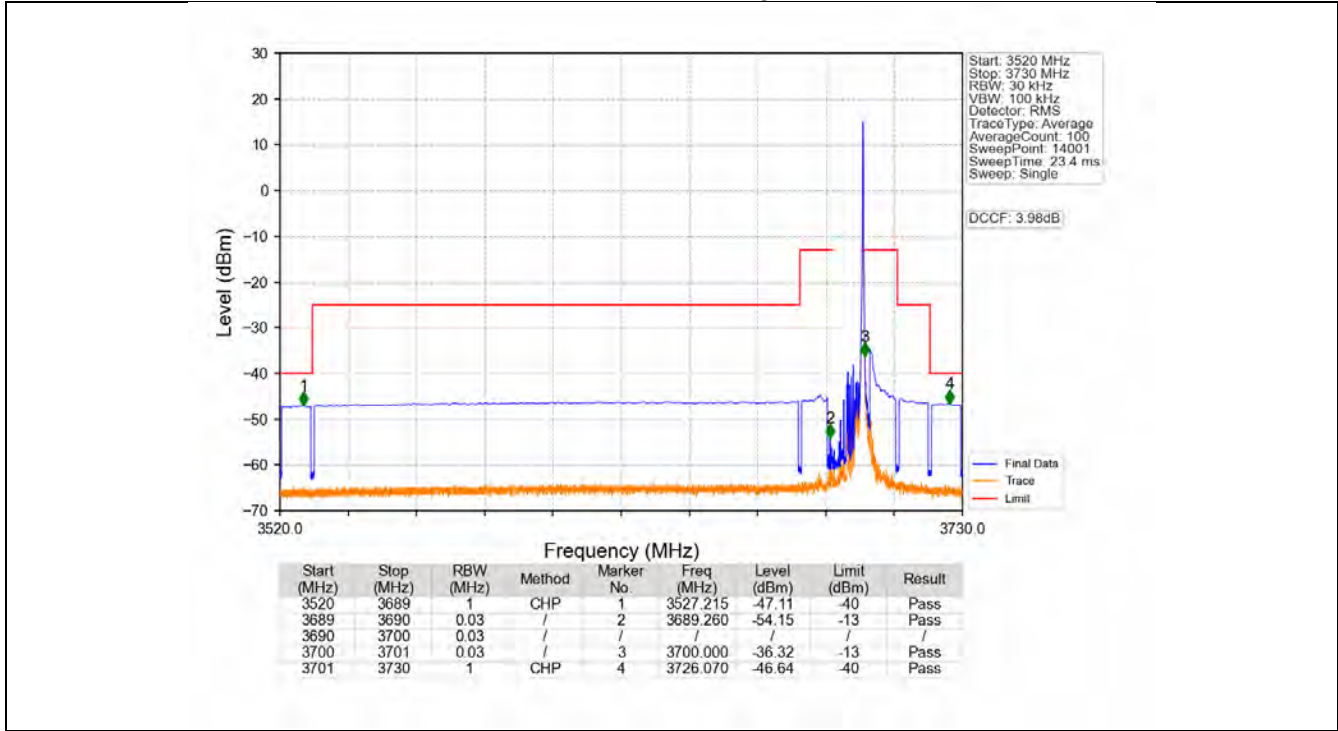
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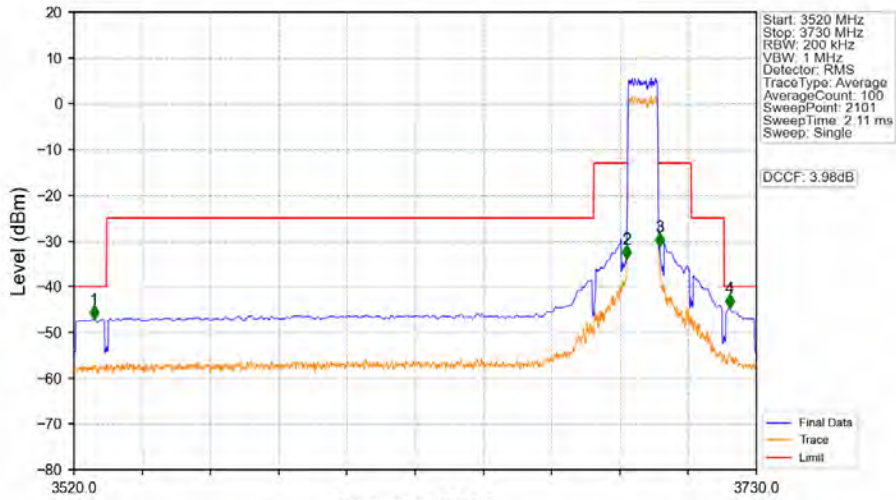


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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



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3520	3689	1	CHP	1	3526.100	-47.14	-40	Pass
3689	3690	0.2	/	2	3690.000	-34.04	-13	Pass
3690	3700	0.2	/	/	/	/	/	/
3700	3701	0.2	/	3	3700.100	-31.27	-13	Pass
3701	3730	1	CHP	4	3721.700	-44.68	-40	Pass



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5.3 B48\_15MHz

5.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTV						
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

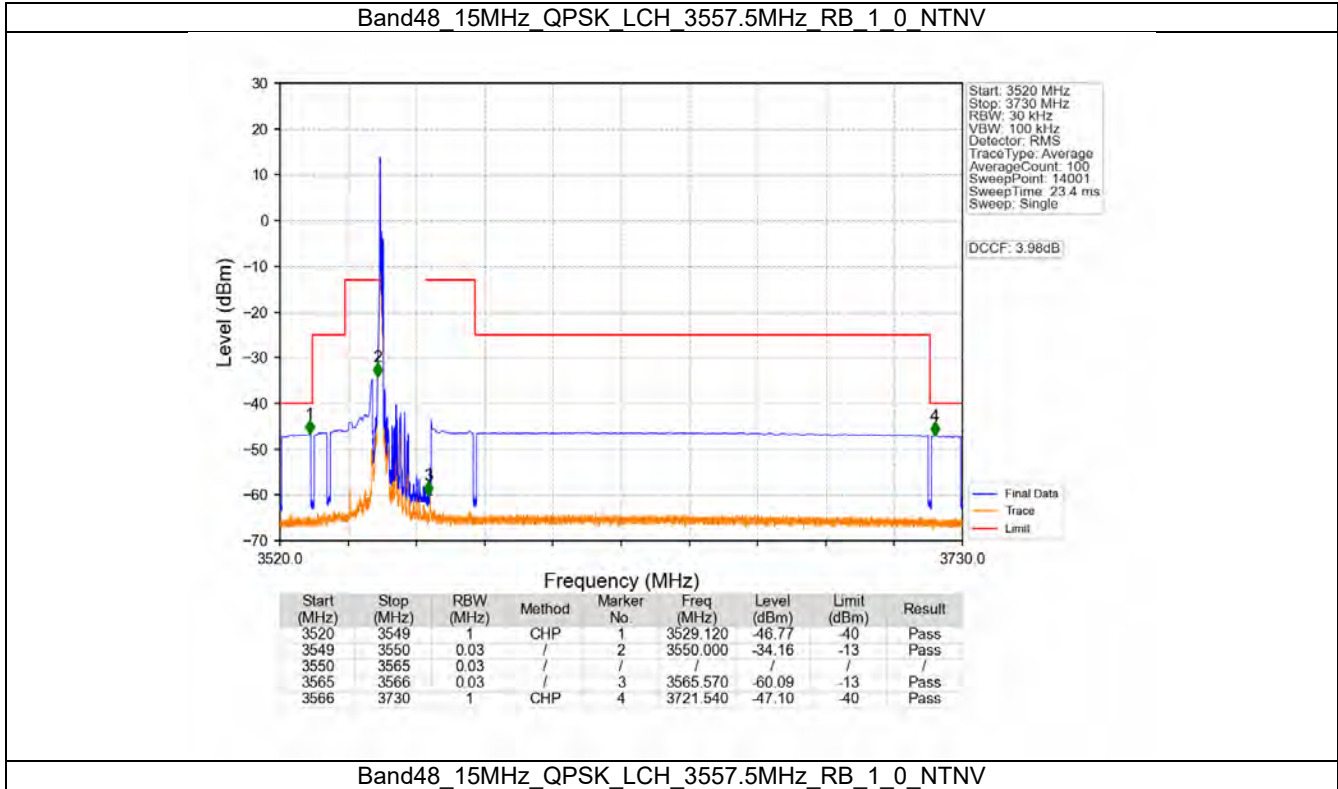


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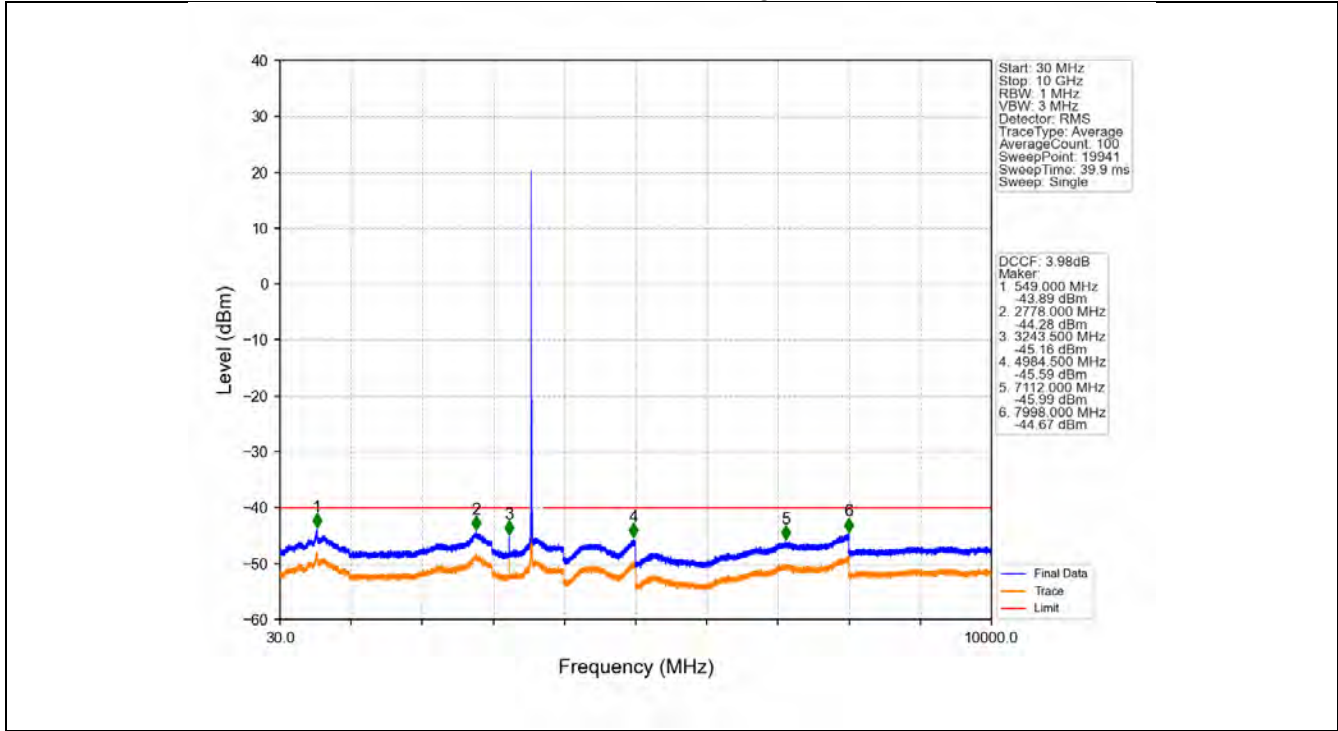
5.3.2 Test Graph



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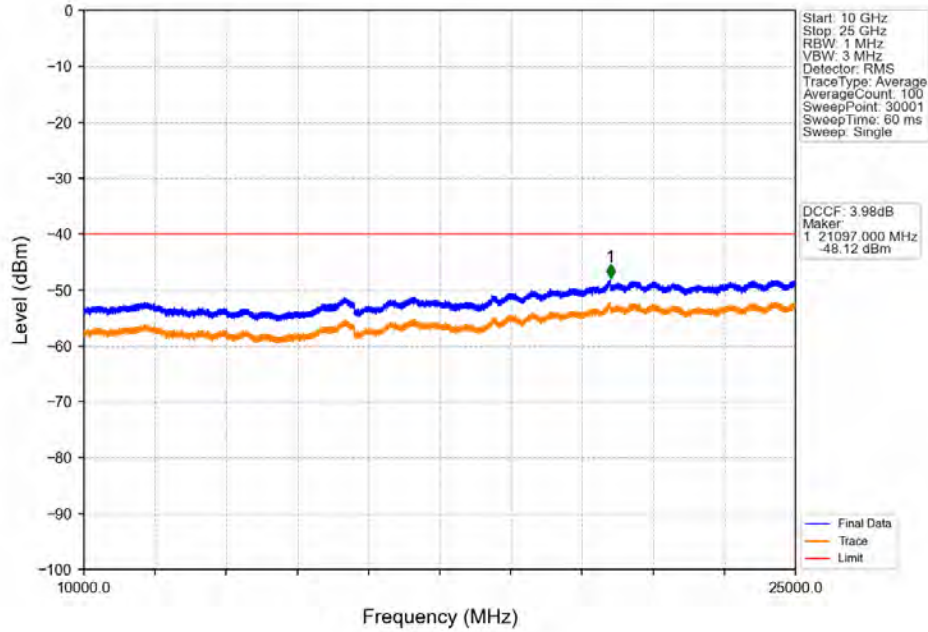


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Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_1\_0\_NTNV



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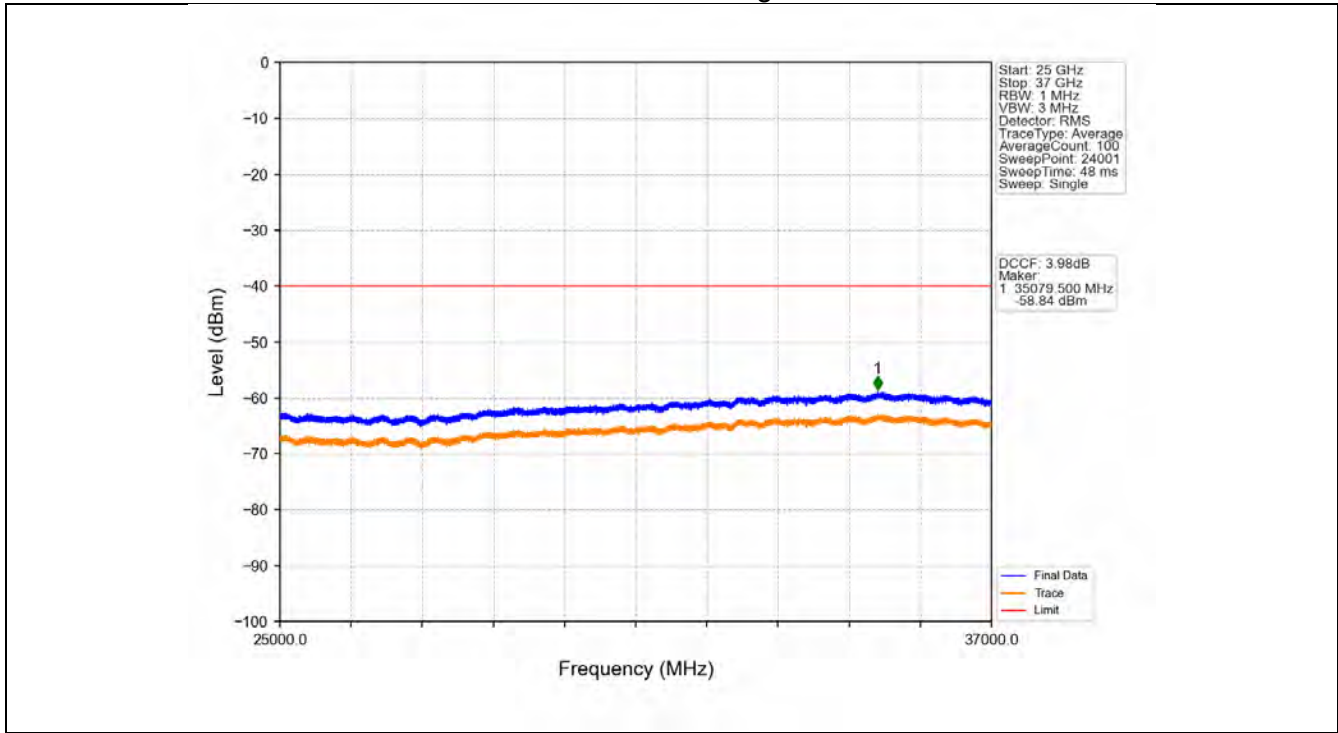


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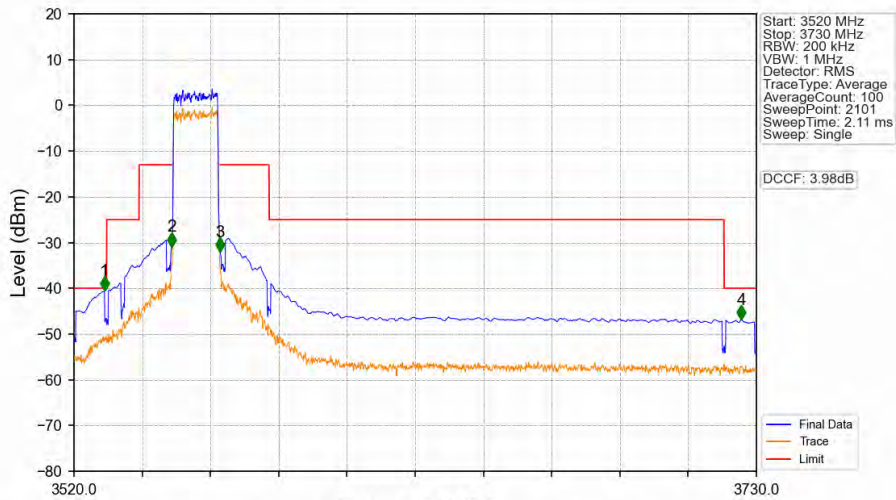
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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTN



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

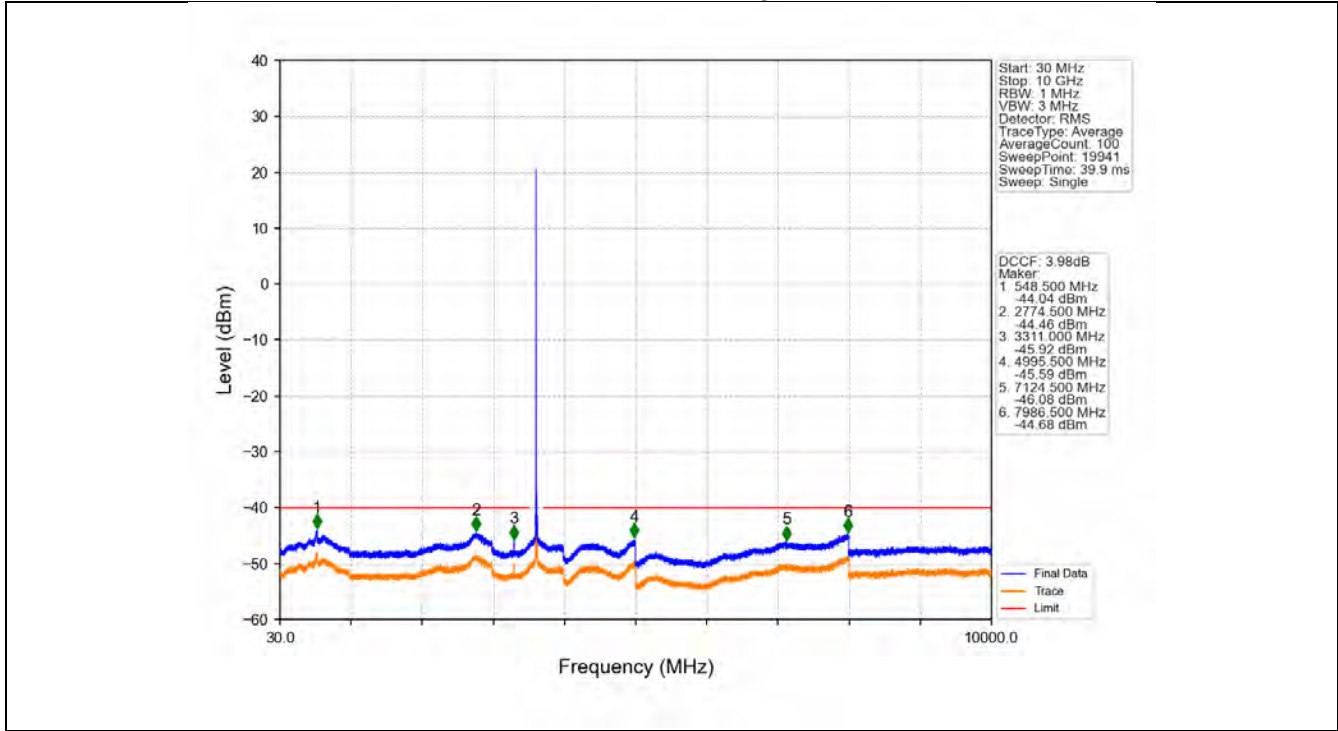
Band48 15MHz QPSK MCH 3625MHz RB 1 0 NTN



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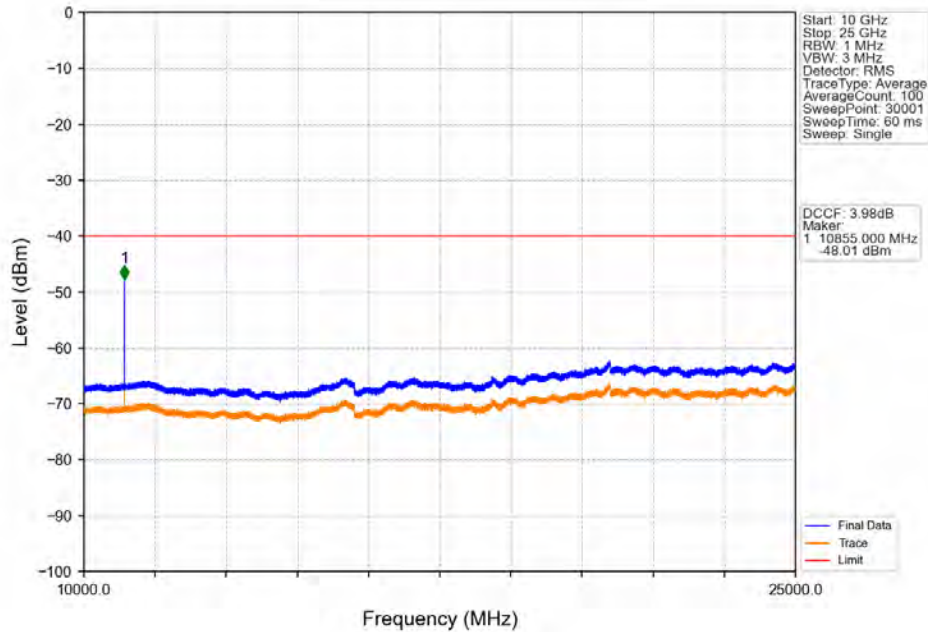


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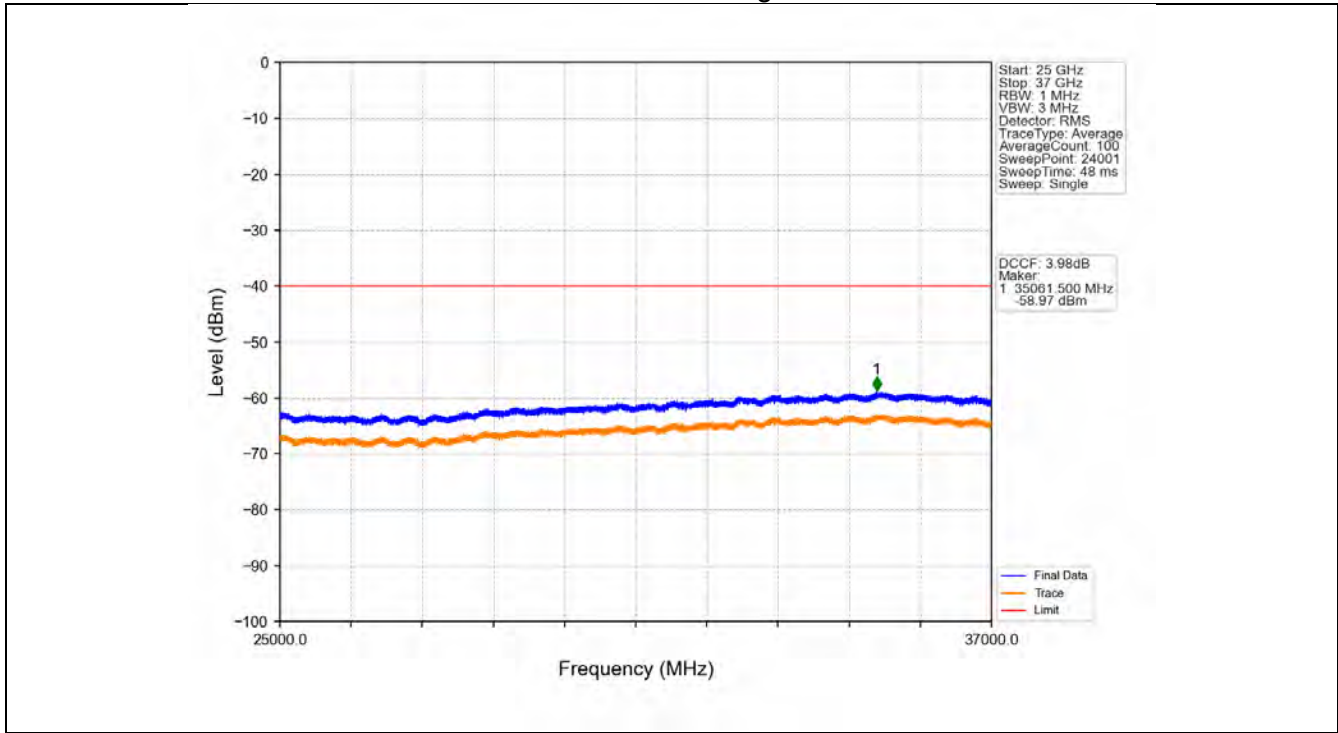


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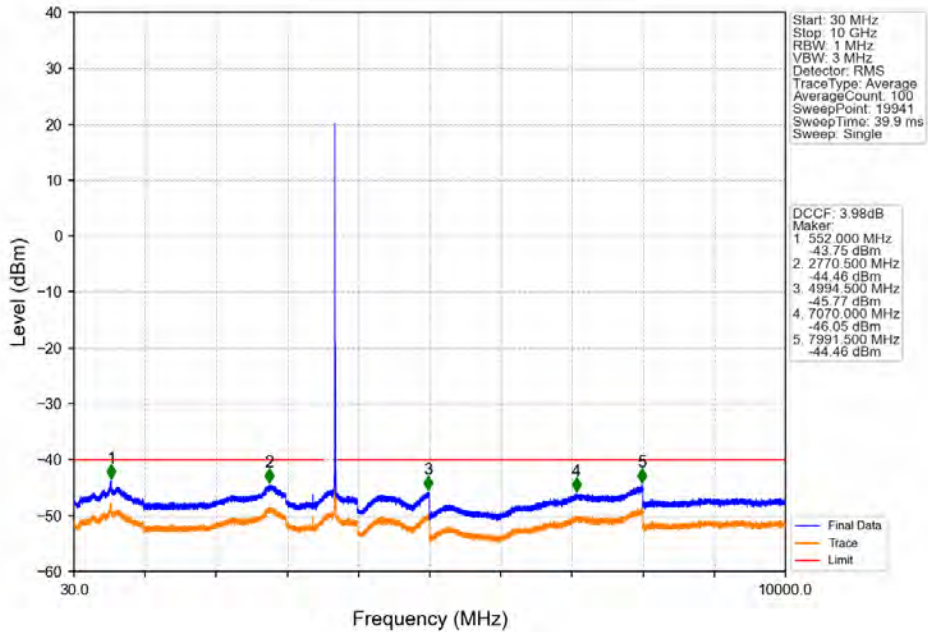


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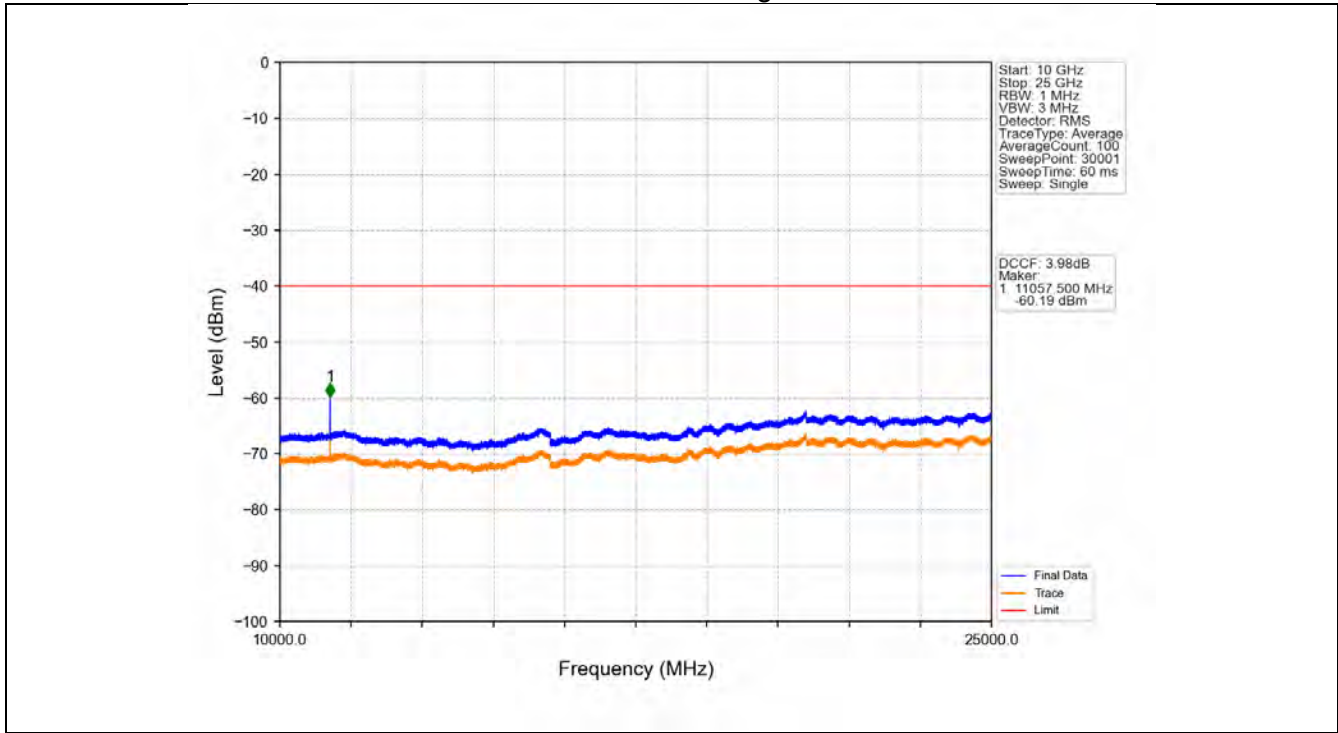
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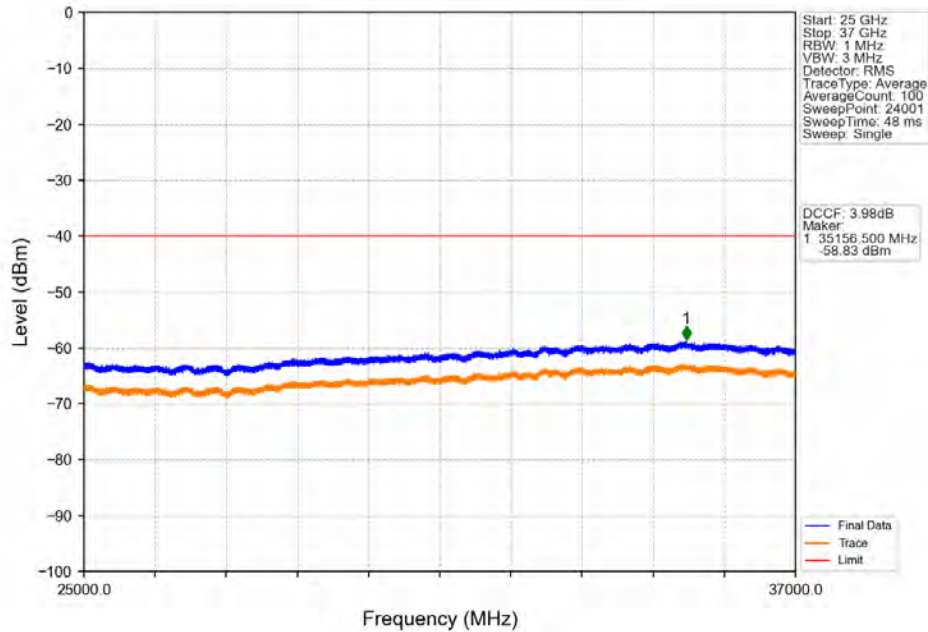
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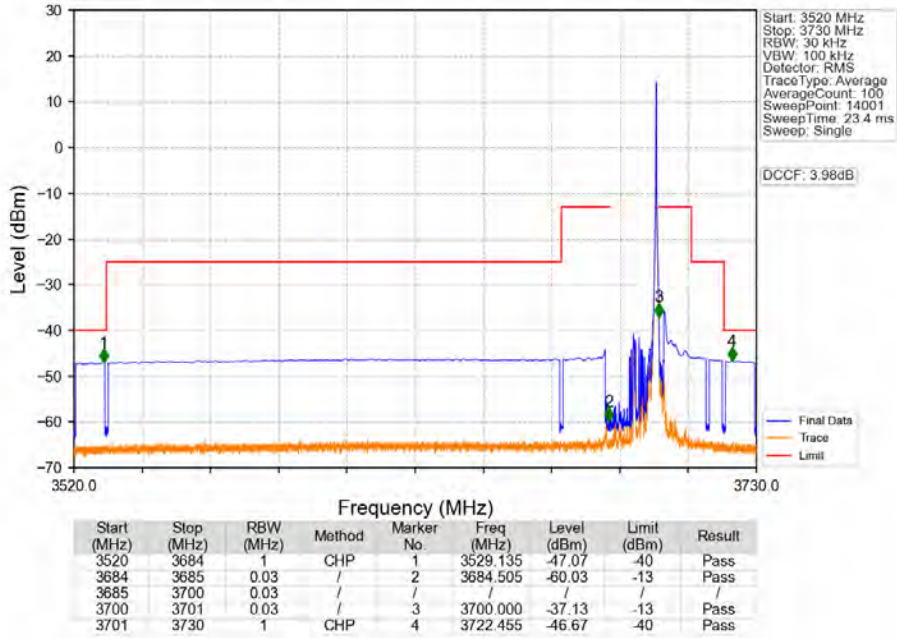
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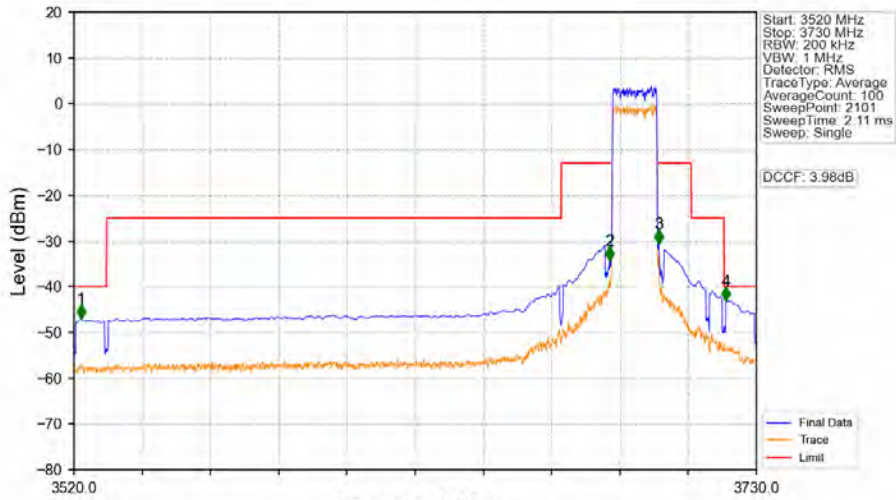
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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3684	1	CHP	1	3522.200	-47.09	-40	Pass
3684	3685	0.2	/	2	3684.900	-34.40	-13	Pass
3685	3700	0.2	/	/	/	/	/	/
3700	3701	0.2	/	3	3700.000	-30.63	-13	Pass
3701	3730	1	CHP	4	3720.600	-43.10	-40	Pass



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5.4 B48\_20MHz

5.4.1 Test Result

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

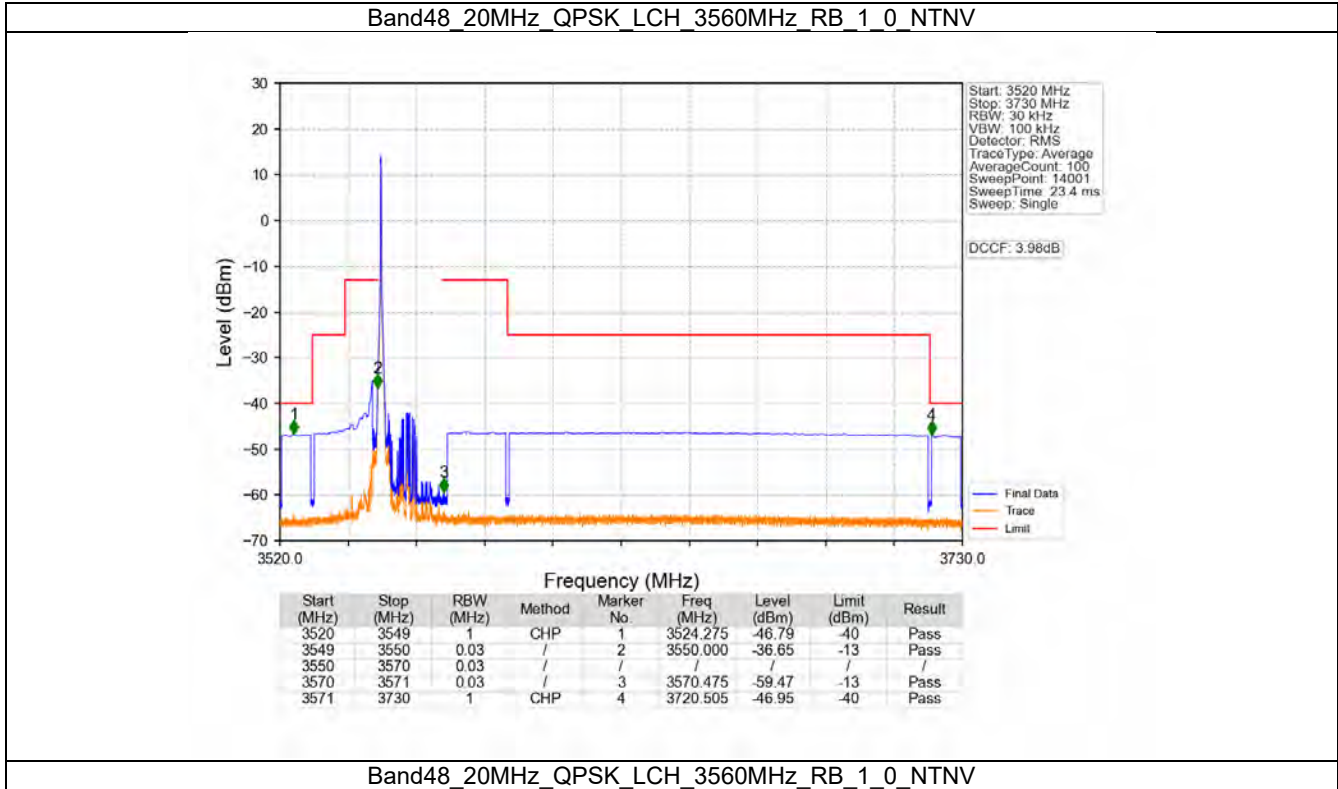


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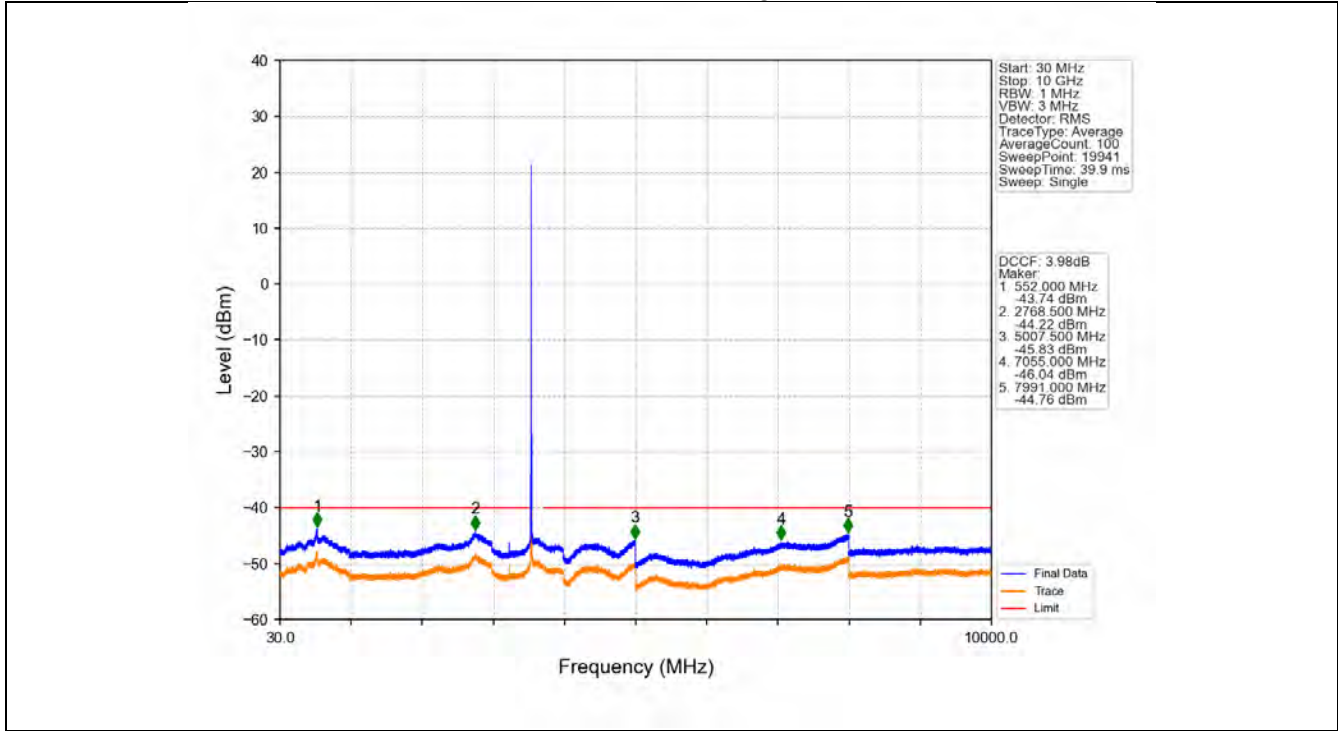
5.4.2 Test Graph



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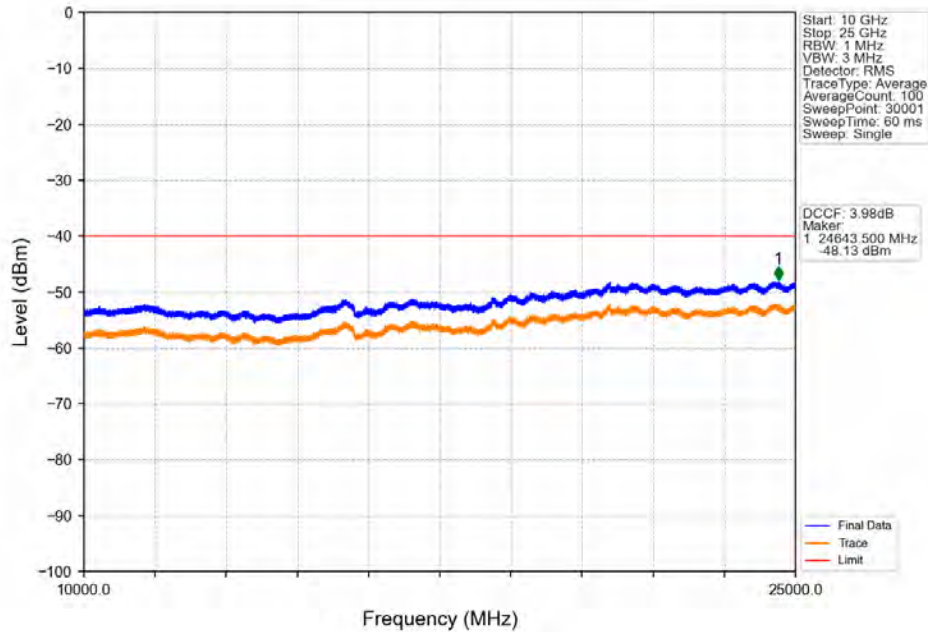


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Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_1\_0\_NTNV



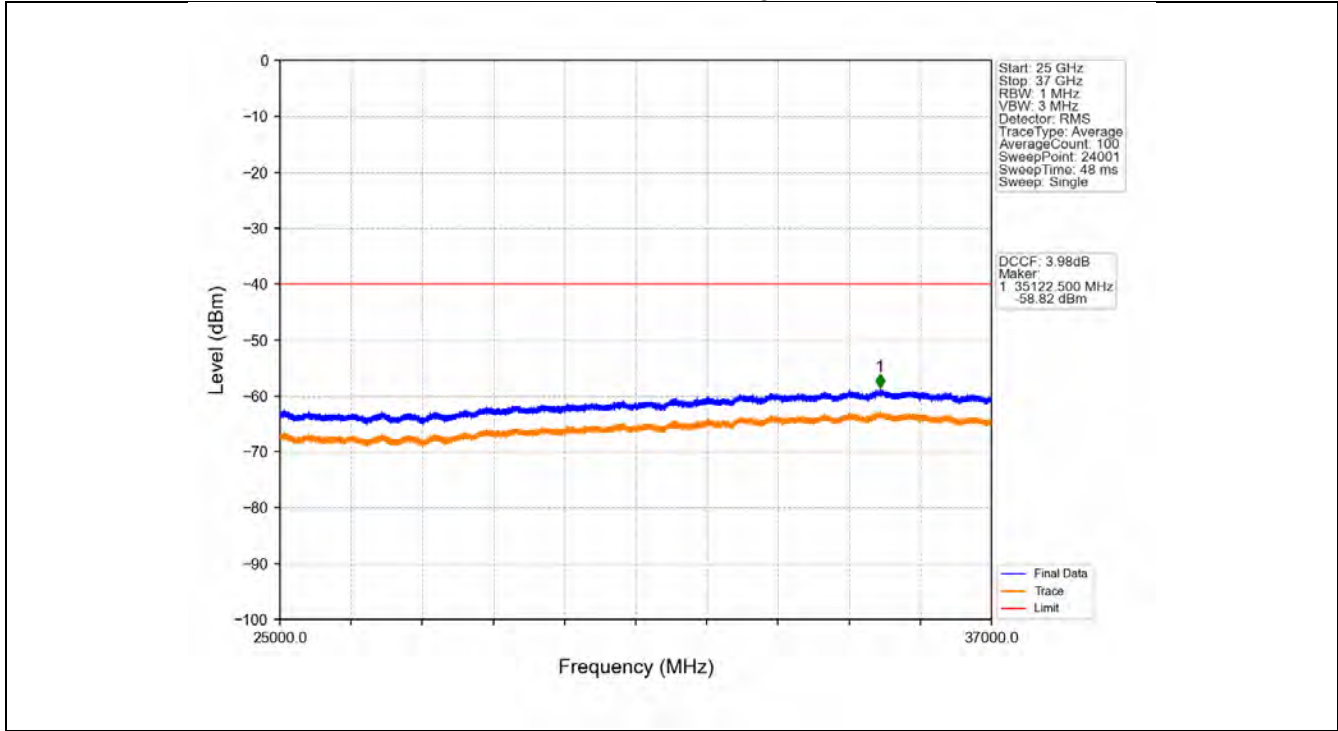
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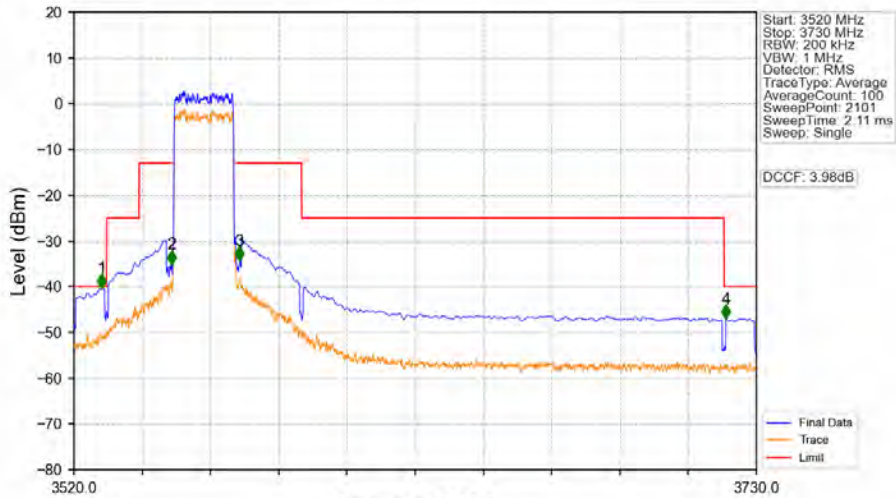


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Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



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

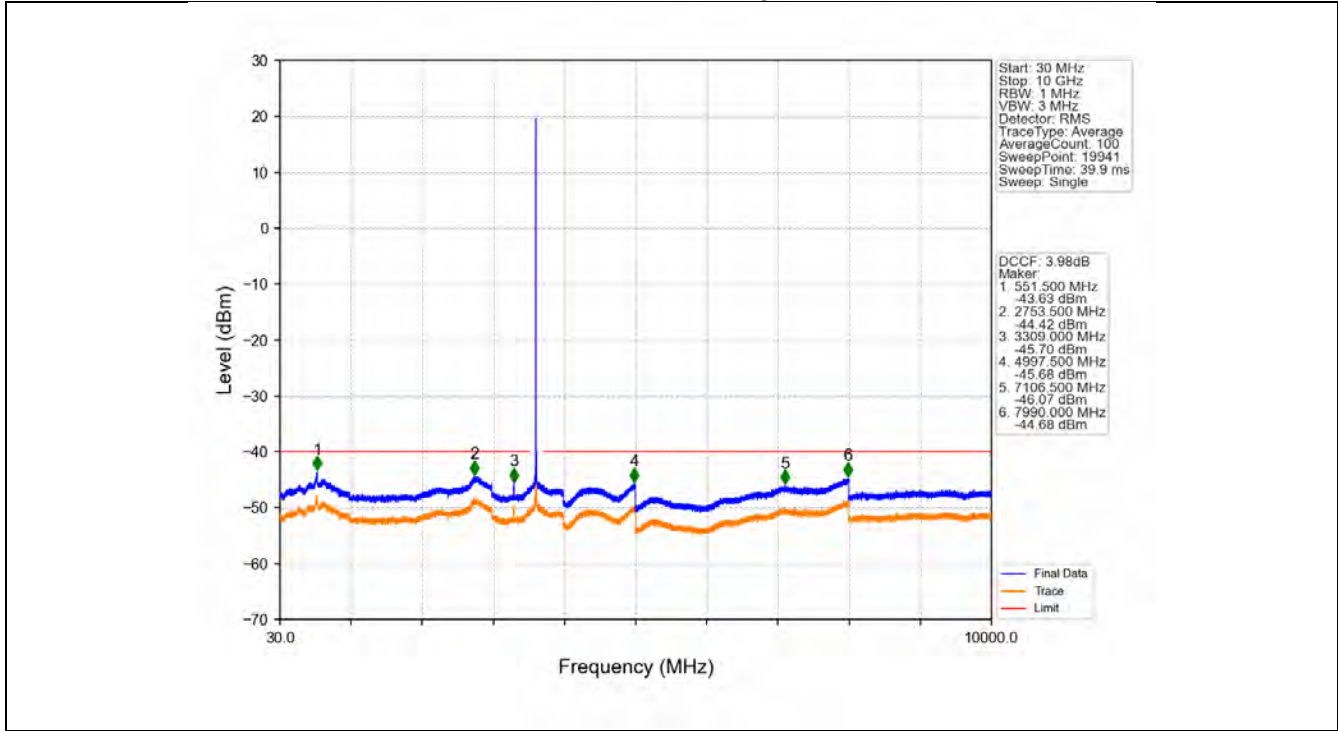
Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



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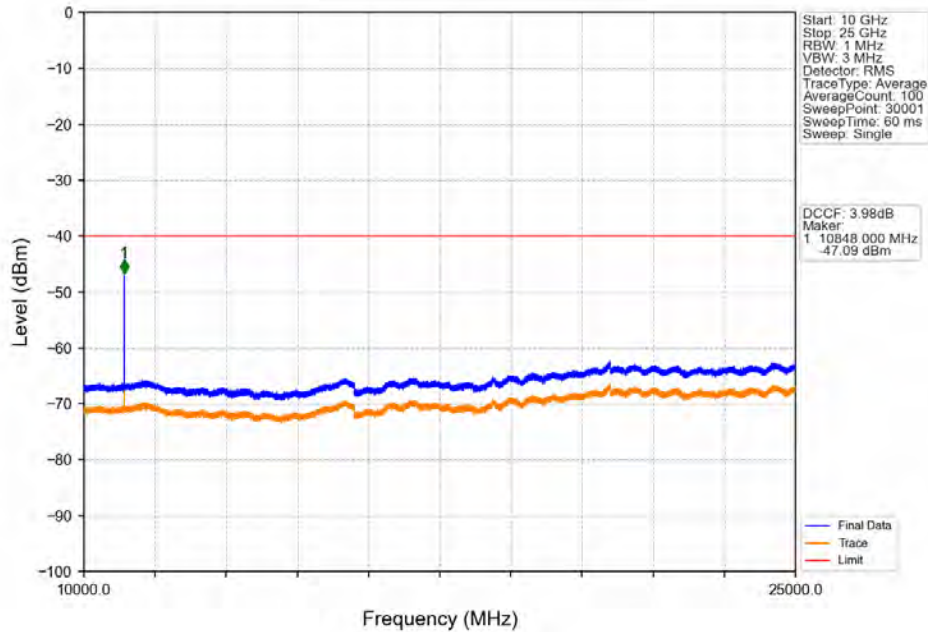
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Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV



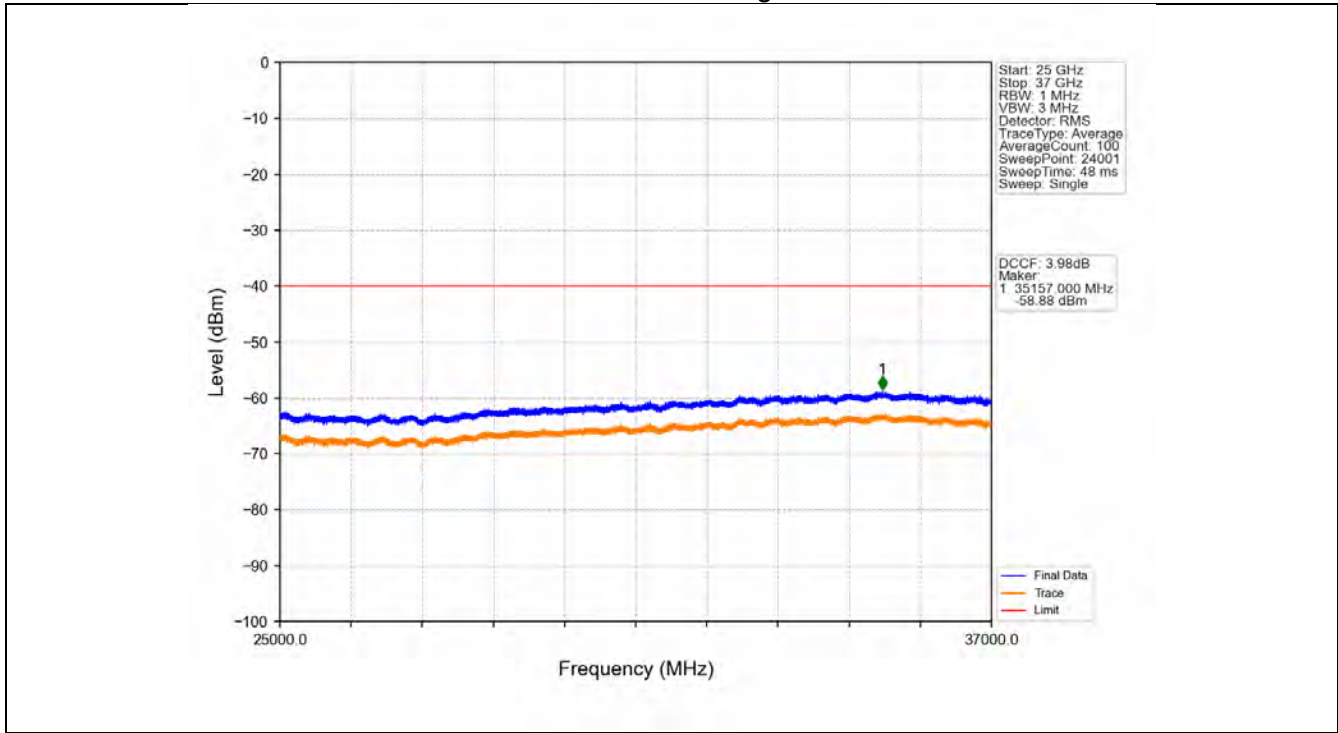
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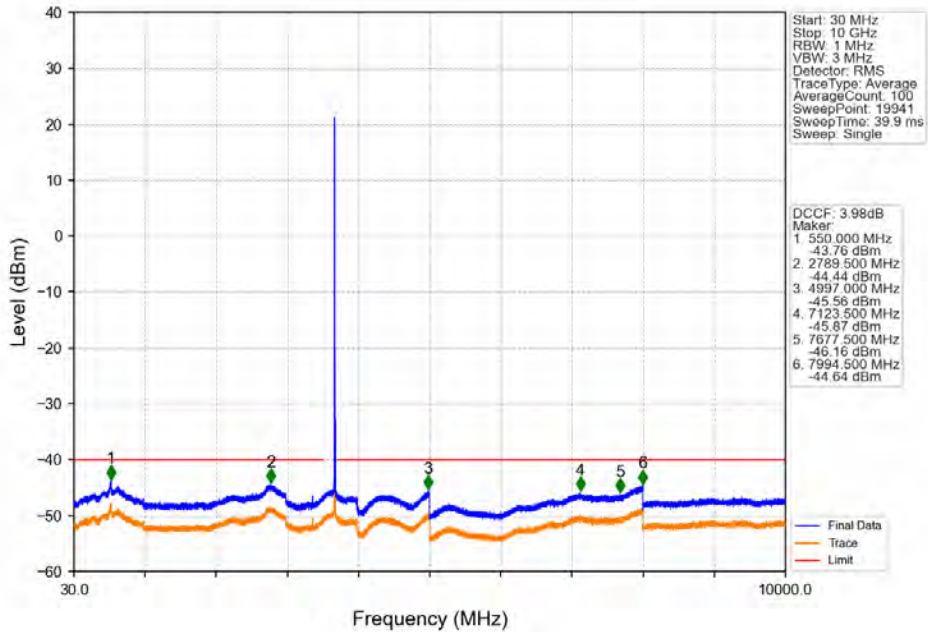


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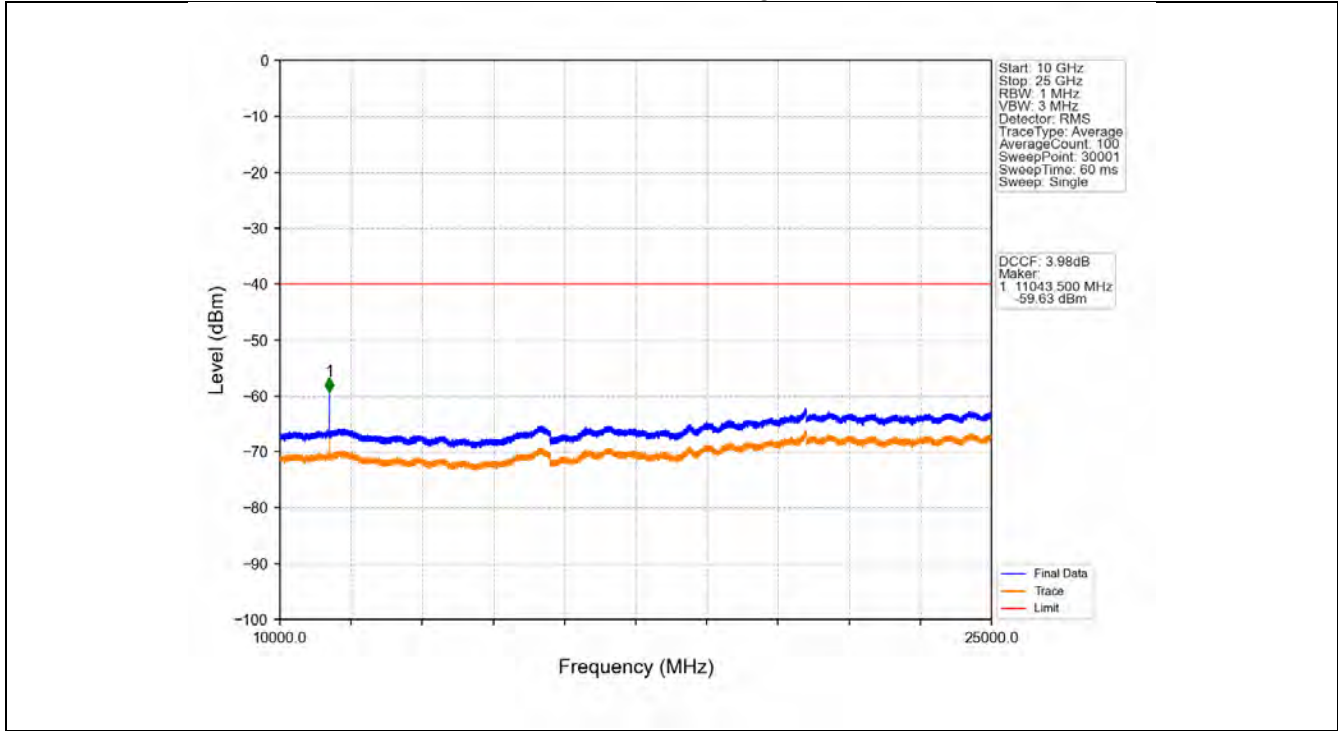
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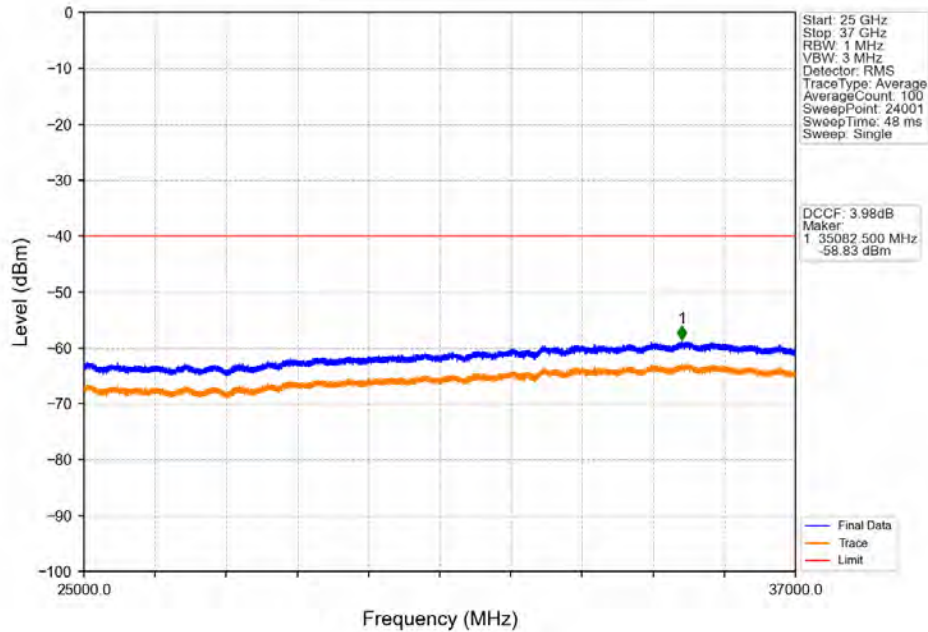


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Rev.: 01

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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_99\_NTNV

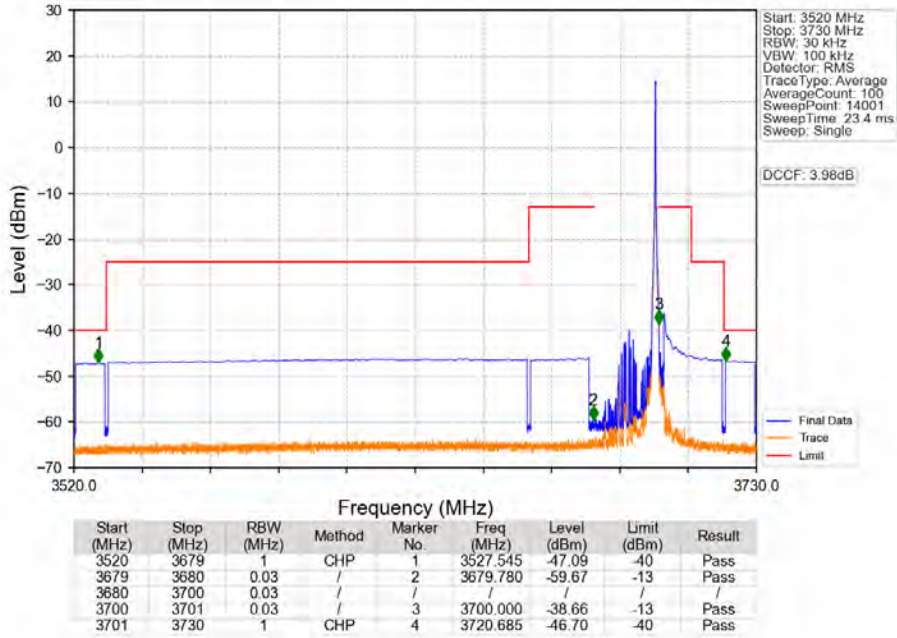


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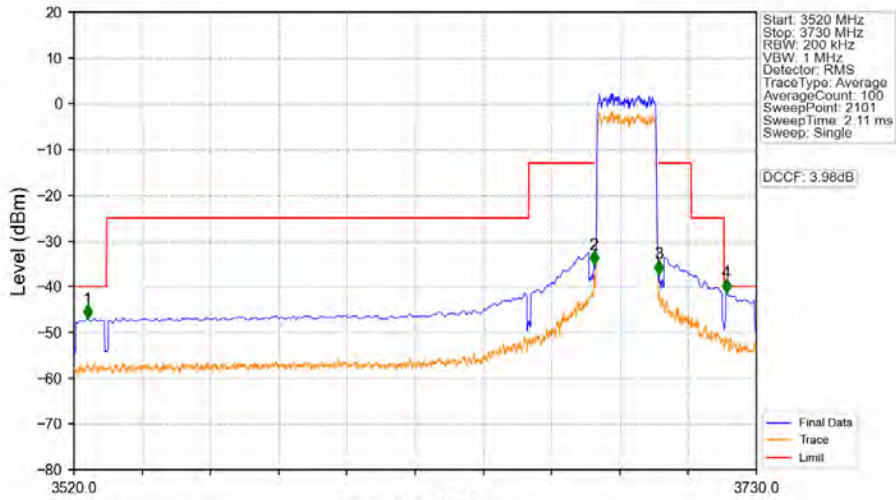


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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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	/	/	/	/	/	/
3700	3701	0.2	/	3	3700.000	-37.23	-13	Pass
3701	3730	1	CHP	4	3720.800	-41.29	-40	Pass



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## 6. Field Strength of Spurious Radiation

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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Rev.: 01
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Test Band = LTE\_B48
Test Channel = MCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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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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## 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		Verdict
		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

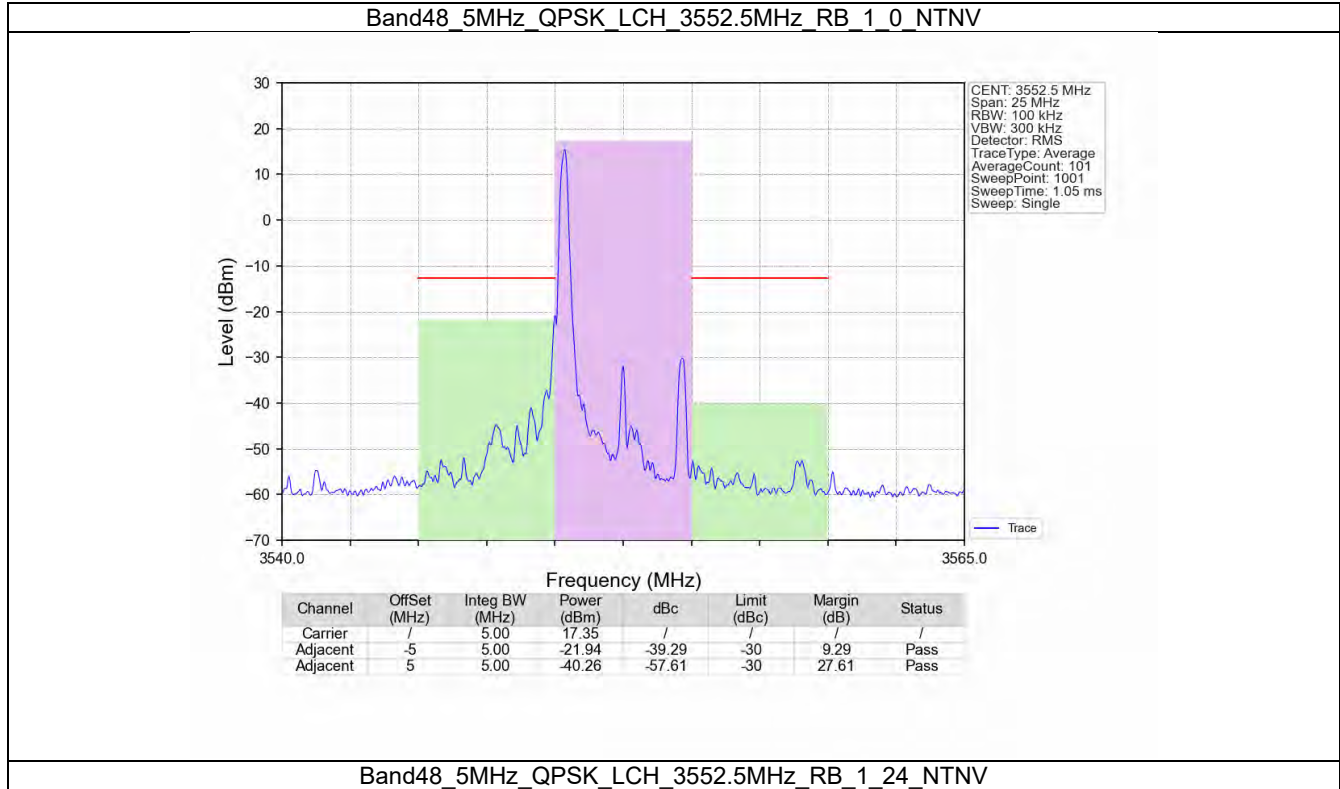


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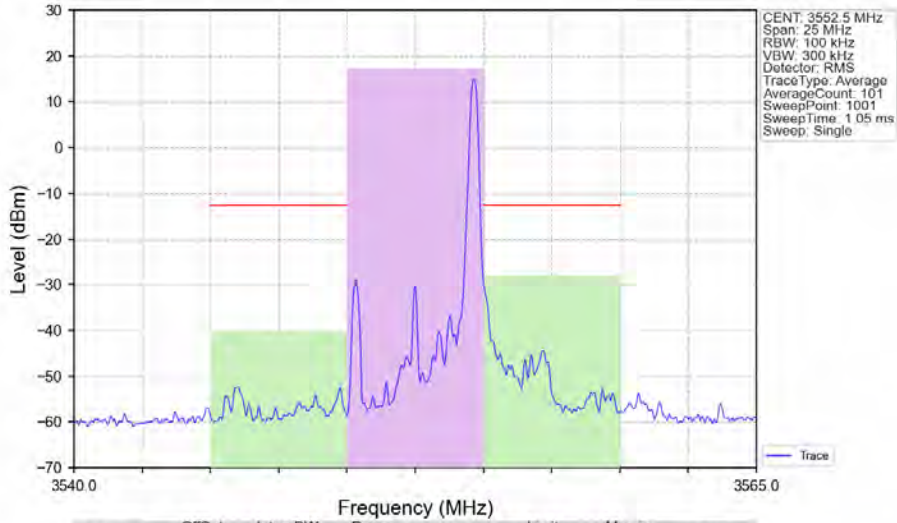
7.1.2 Test Graph



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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	17.32	-57.40	-30	27.40	Pass
Adjacent	-5	5.00	-40.08	-45.42	-30	15.42	Pass
Adjacent	5	5.00	-28.10	-45.42	-30	15.42	Pass



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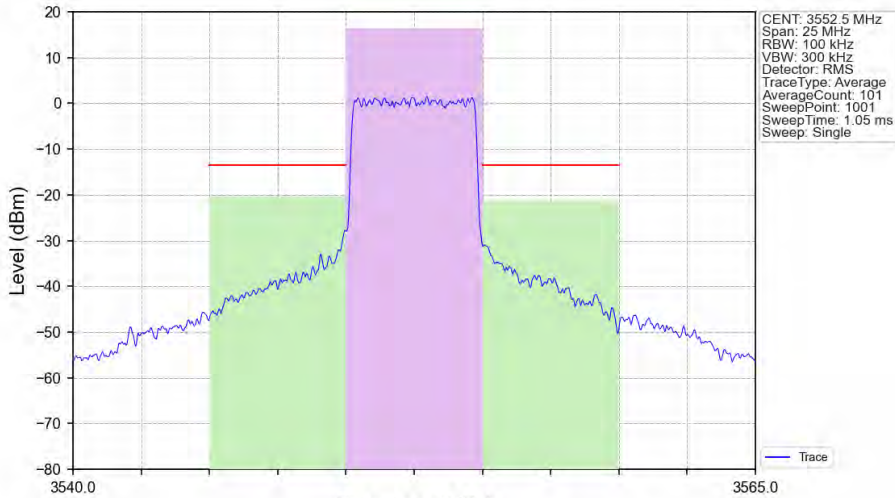


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Band48\_5MHz\_QPSK\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



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

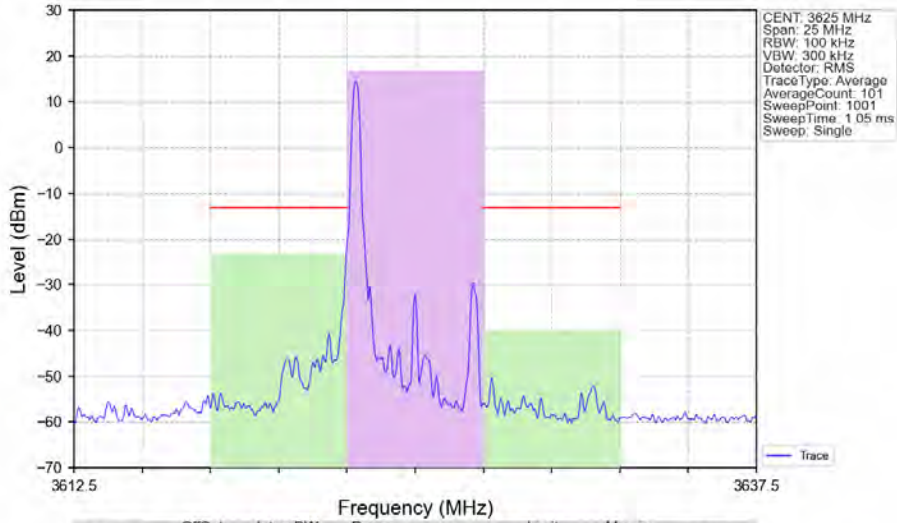


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Carrier	/	5.00	16.81	-40.15	-30	10.15	Pass
Adjacent	-5	5.00	-23.34	-56.69	-30	26.69	Pass
Adjacent	5	5.00	-39.88	-56.69	-30	26.69	Pass



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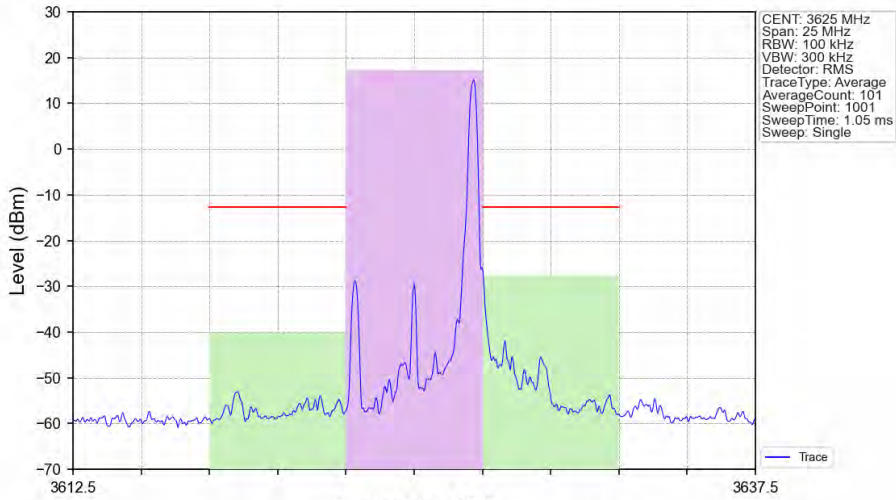


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Band48\_5MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_24\_NTNV



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



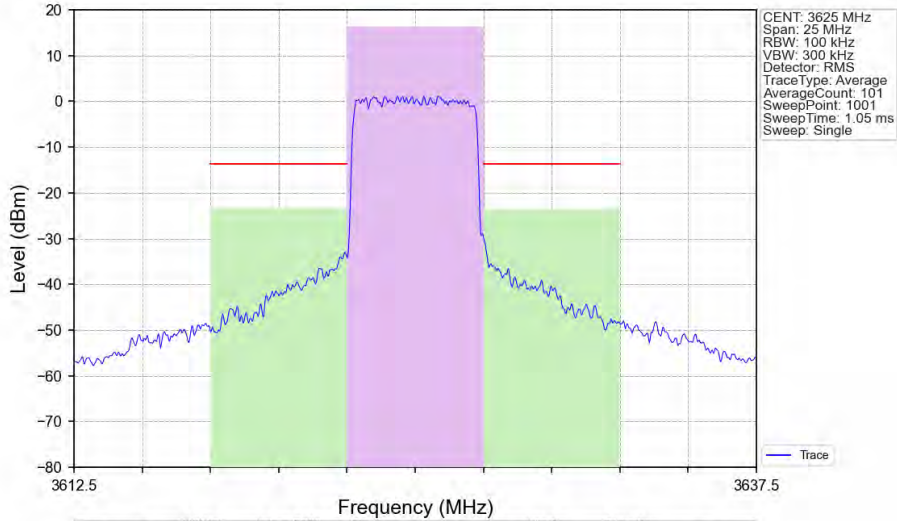
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	5.00	16.27	/	/	/	/
Adjacent	-5	5.00	-23.44	-39.71	-30	9.71	Pass
Adjacent	5	5.00	-23.48	-39.75	-30	9.75	Pass

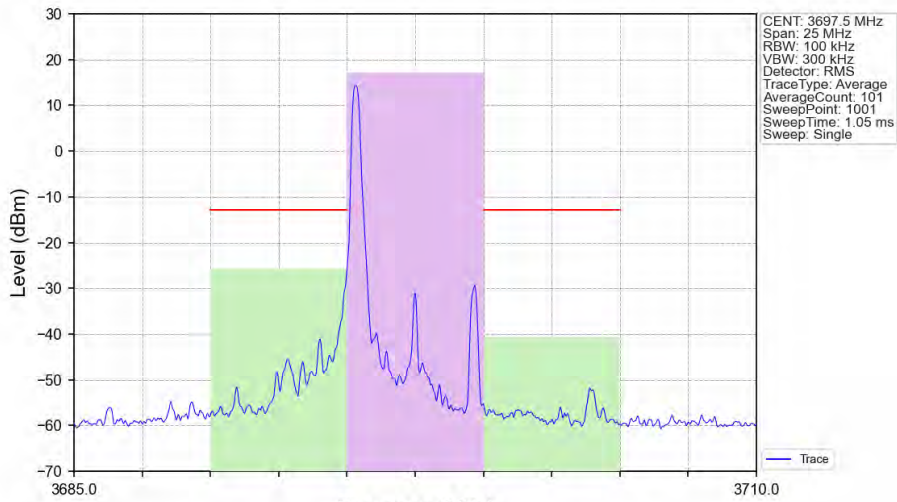


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_0\_NTNV



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

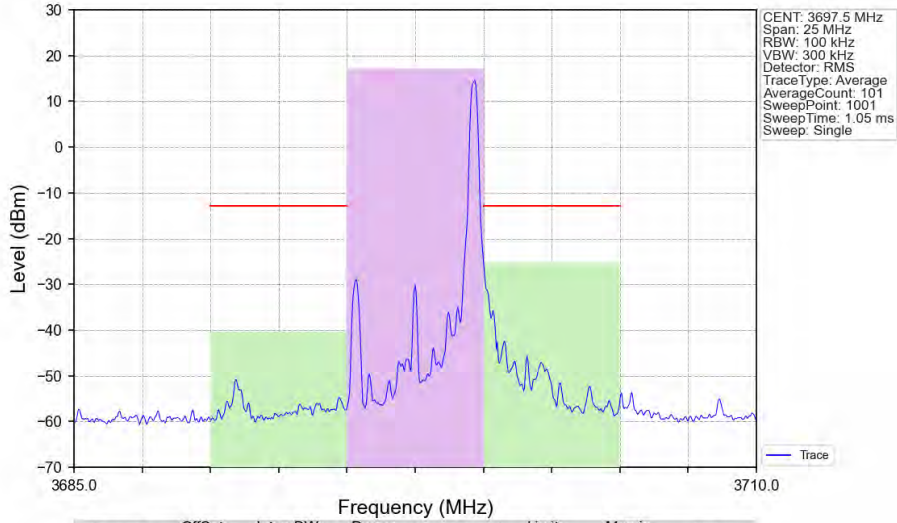
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_1\_24\_NTNV



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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
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

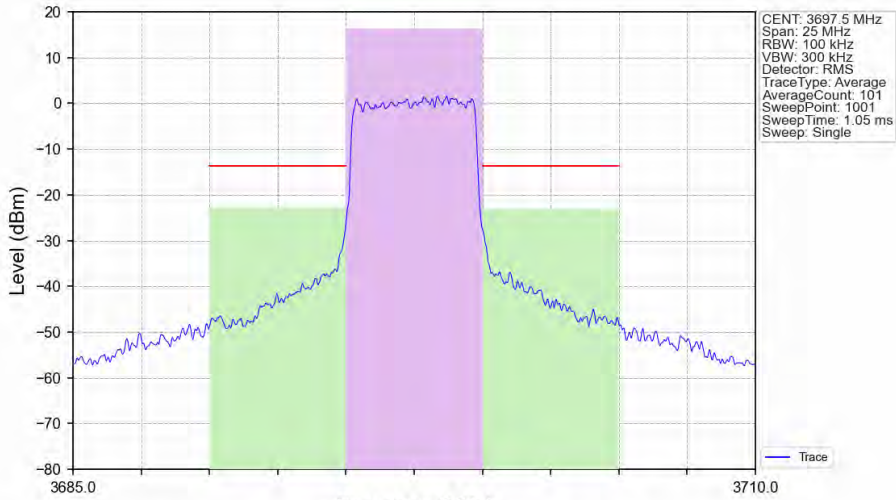


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Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



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

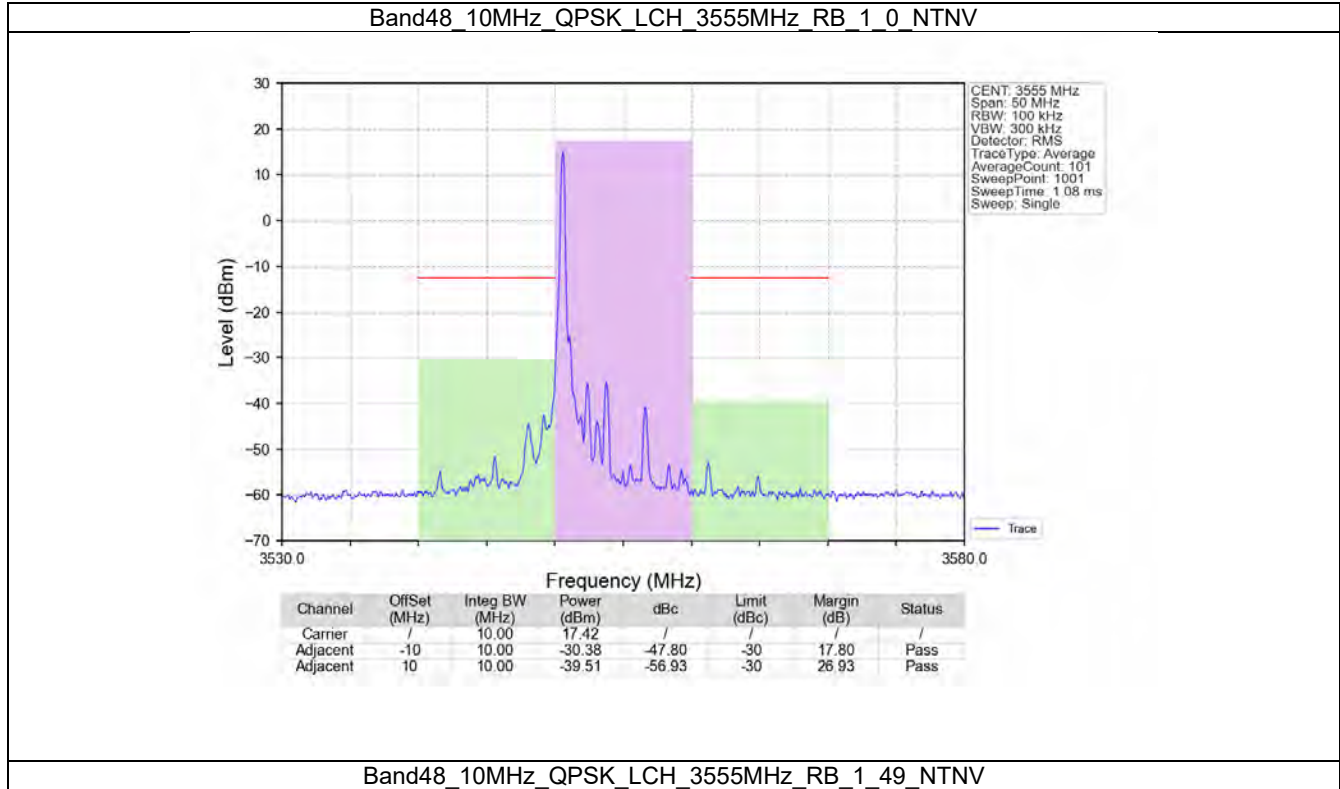
Table with columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Adjacent Channel Leakage Ratio (Result, Limit), and Verdict. Data includes QPSK modulation at frequencies 3555, 3625, and 3695 MHz.



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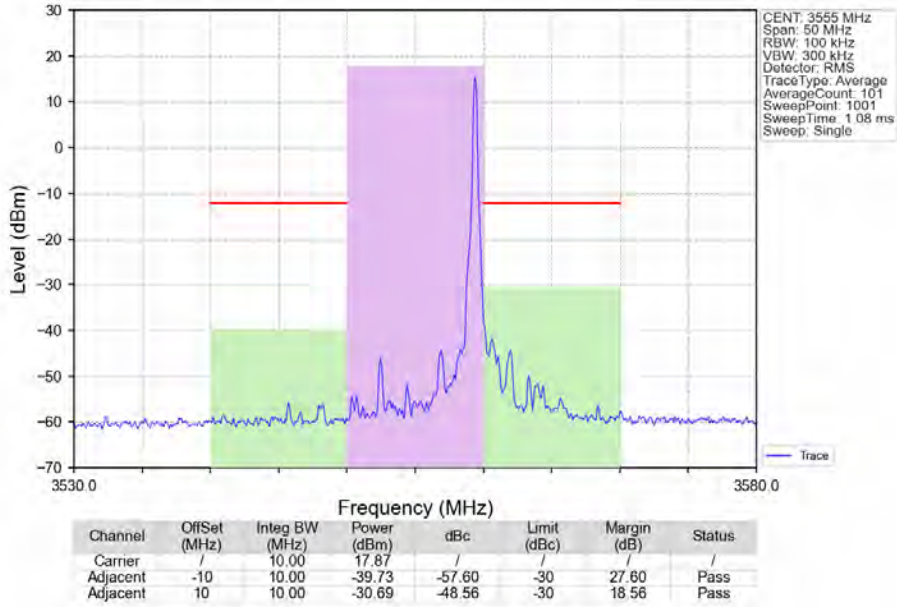
7.2.2 Test Graph



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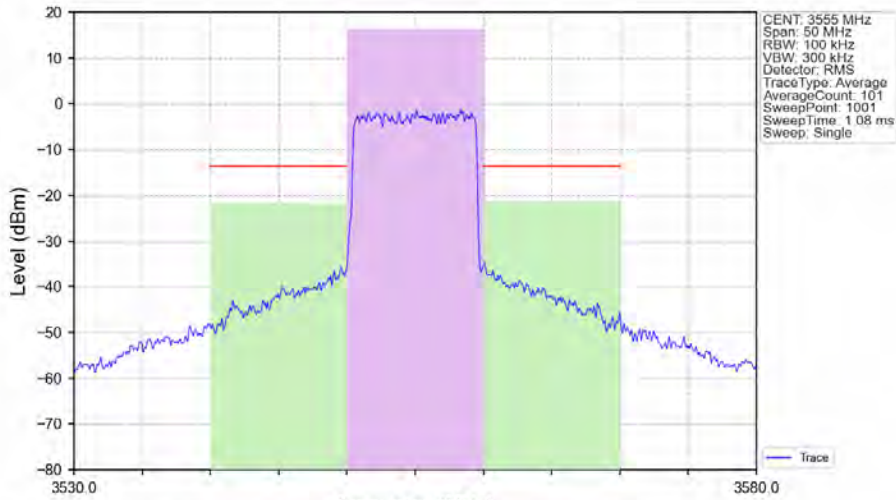


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Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.24	/	/	/	/
Adjacent	-10	10.00	-21.71	-37.95	-30	7.95	Pass
Adjacent	10	10.00	-21.51	-37.75	-30	7.75	Pass

Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_0\_NTNV

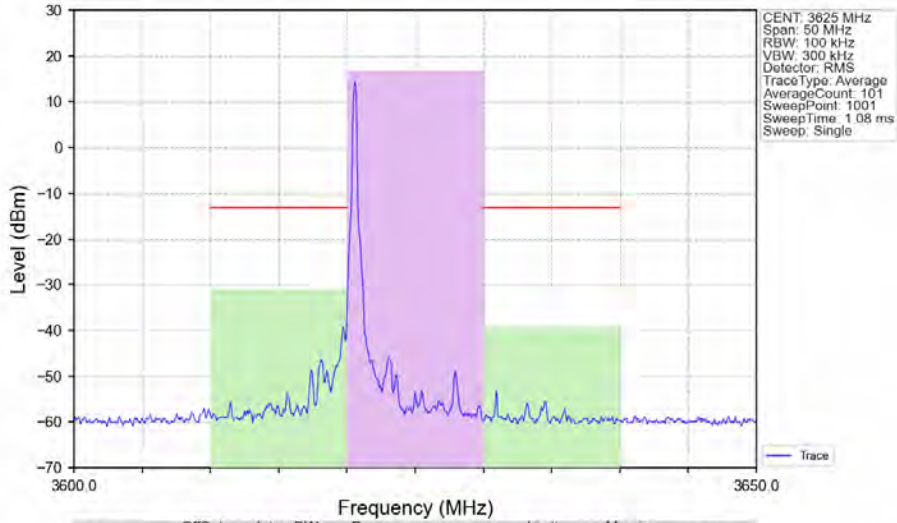


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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.86	/	/	/	/
Adjacent	-10	10.00	-31.05	-47.91	-30	17.91	Pass
Adjacent	10	10.00	-39.23	-56.09	-30	26.09	Pass

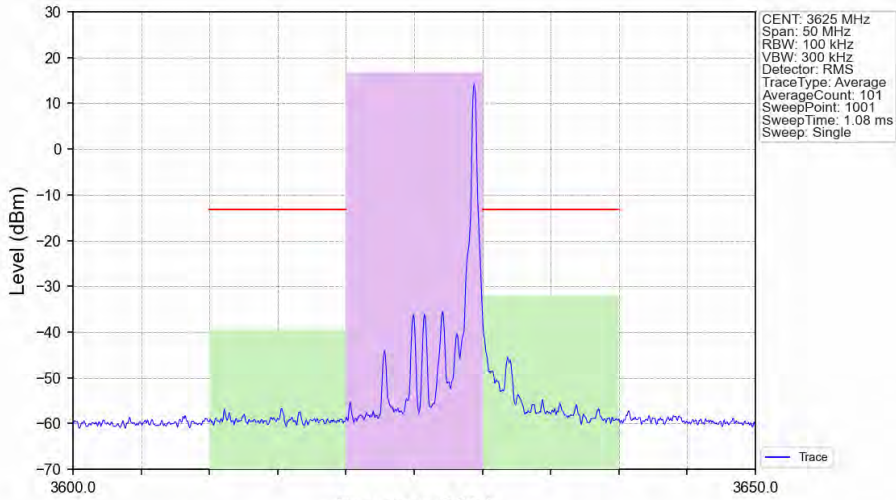


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Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_49\_NTNV



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

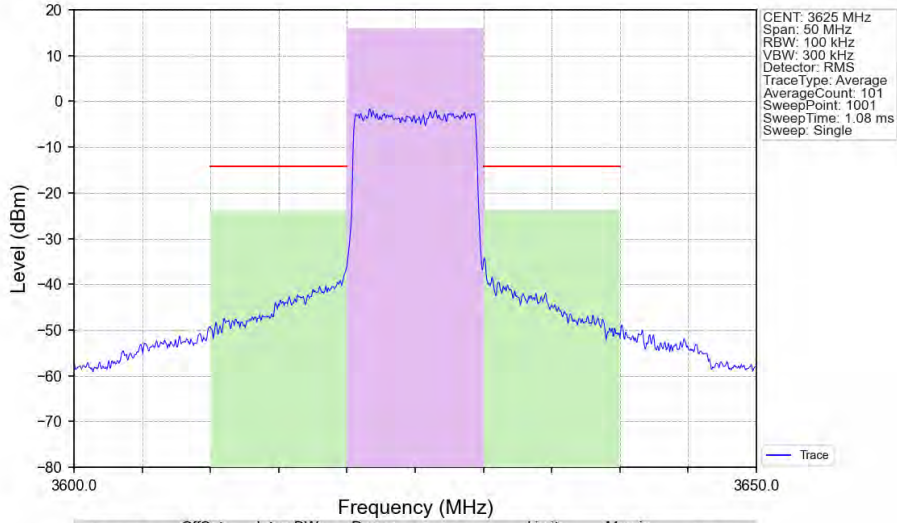
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.87	/	/	/	/
Adjacent	-10	10.00	-23.85	-39.72	-30	9.72	Pass
Adjacent	10	10.00	-23.66	-39.53	-30	9.53	Pass



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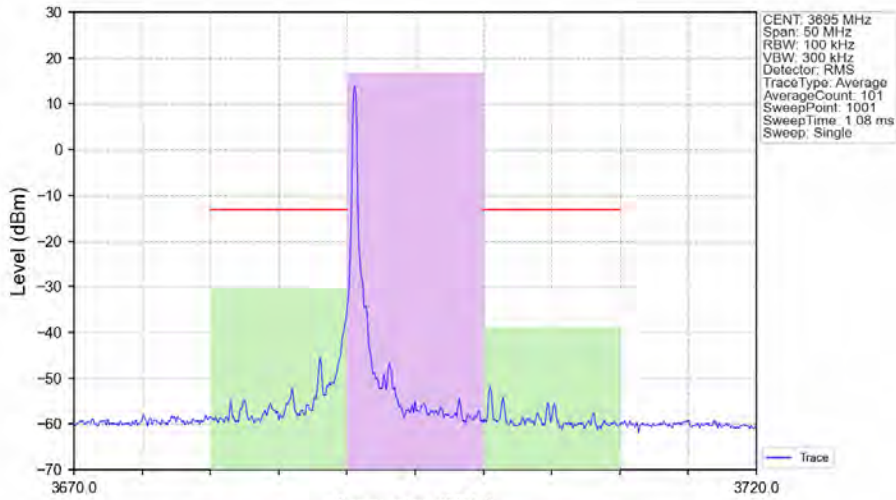
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Rev.: 01

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Band48 10MHz QPSK HCH 3695MHz RB 1\_0 NTV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.74	/	/	/	/
Adjacent	-10	10.00	-30.27	-47.01	-30	17.01	Pass
Adjacent	10	10.00	-39.02	-55.76	-30	25.76	Pass

Band48 10MHz QPSK HCH 3695MHz RB 1\_49 NTV



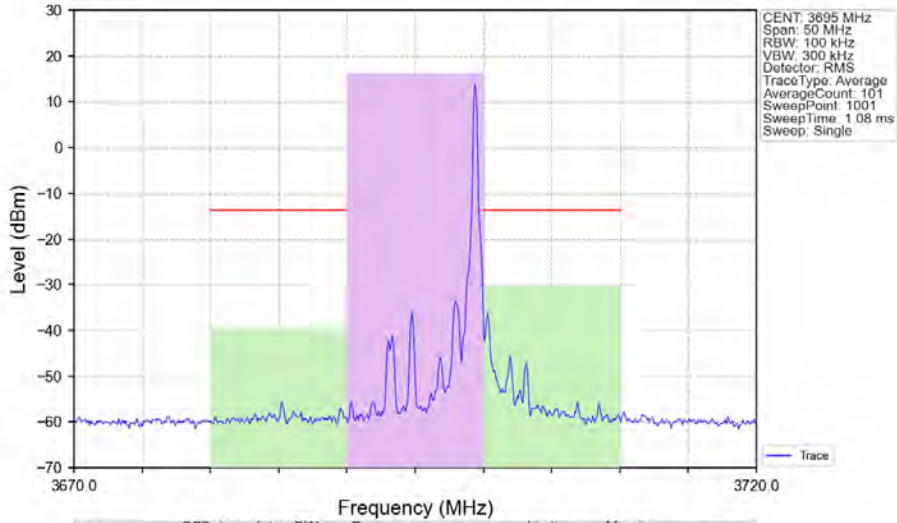
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	16.24	/	/	/	/
Adjacent	-10	10.00	-39.45	-55.69	-30	25.69	Pass
Adjacent	10	10.00	-30.17	-46.41	-30	16.41	Pass



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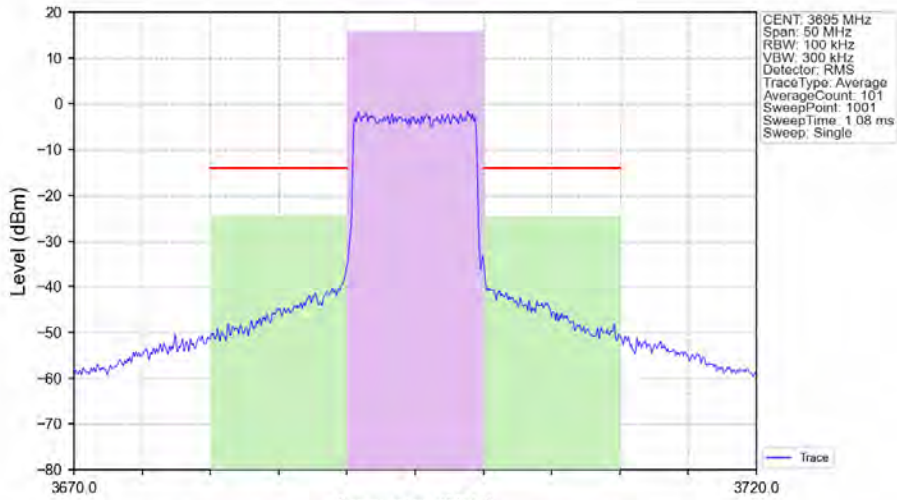
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Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



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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Rev.: 01
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7.3 B48\_15MHz

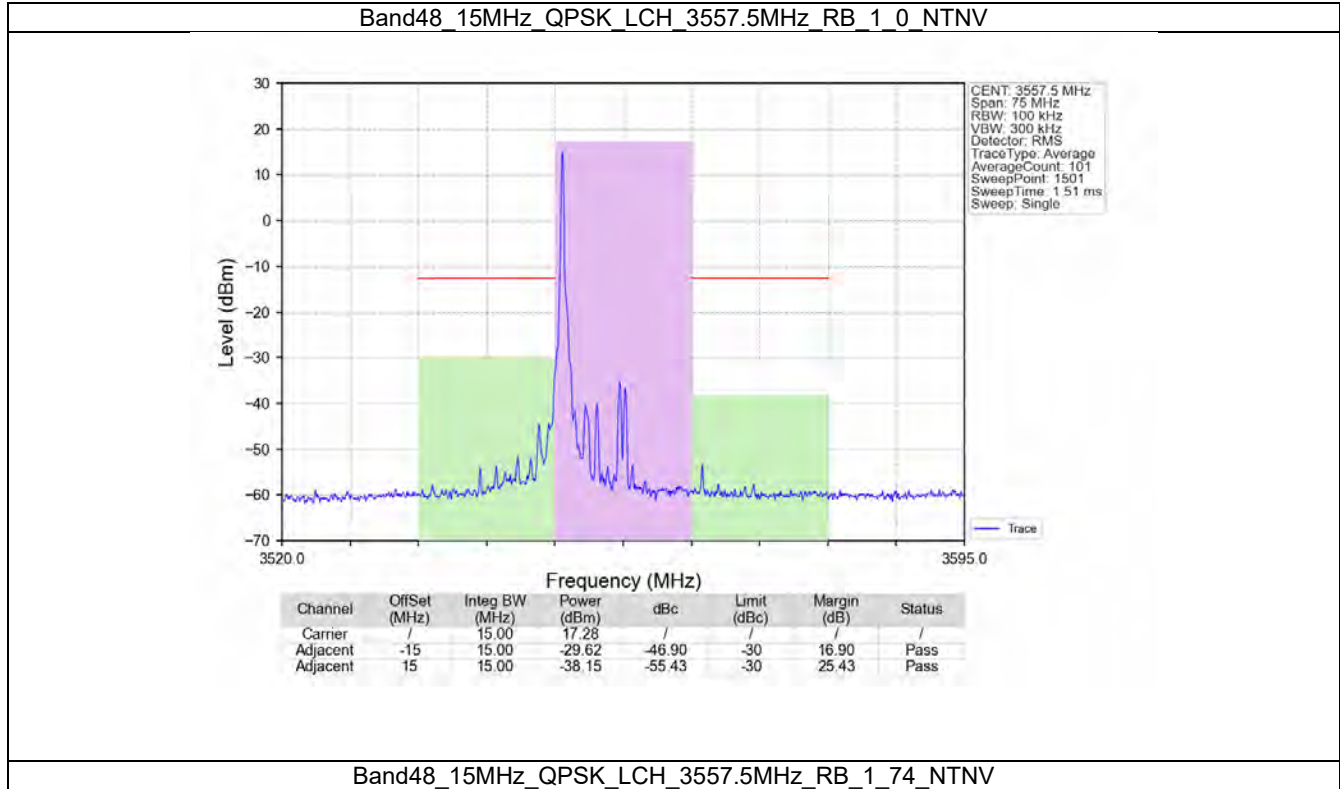
7.3.1 Test Result

Table with 6 columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Adjacent Channel Leakage Ratio (Result, Limit), and Verdict. It contains test results for QPSK modulation at frequencies 3557.5, 3625, and 3692.5 MHz, all showing 'Pass' results.



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7.3.2 Test Graph

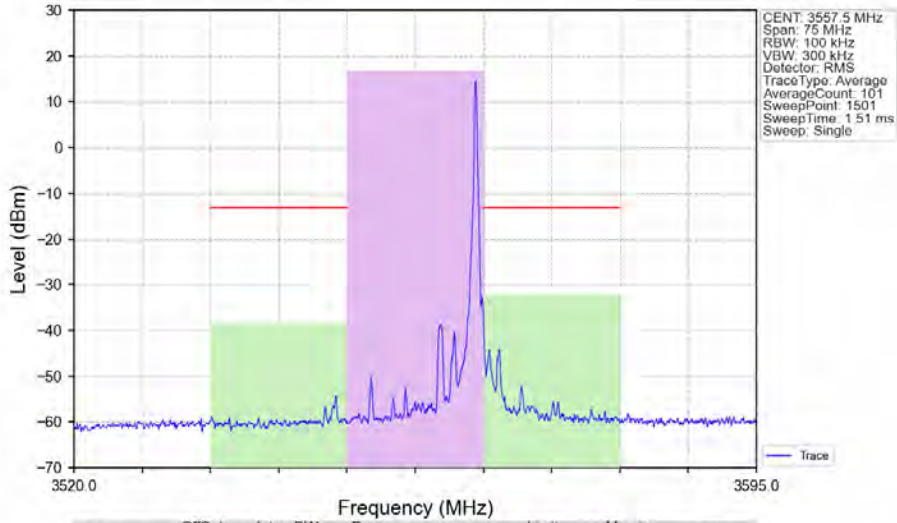


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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.86	/	/	/	/
Adjacent	-15	15.00	-38.43	-55.29	-30	25.29	Pass
Adjacent	15	15.00	-32.05	-48.91	-30	18.91	Pass



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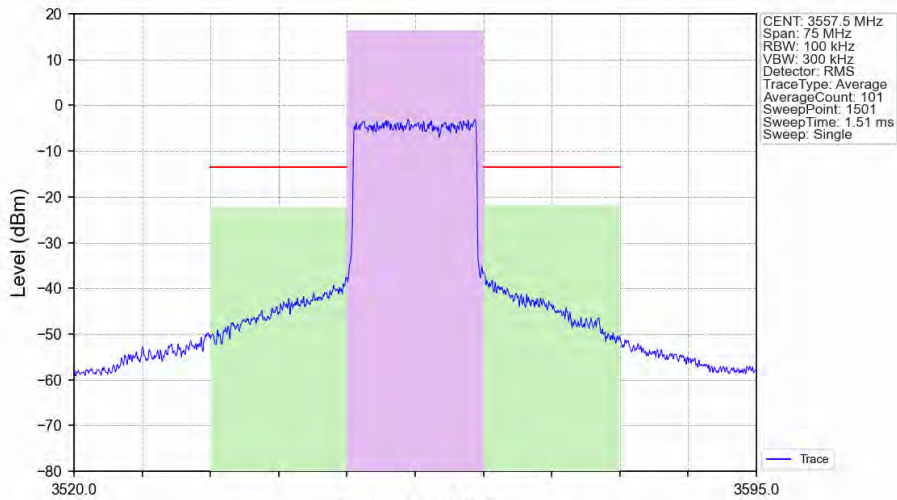


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Rev.: 01

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Band48 15MHz QPSK LCH 3557.5MHz RB 75 0 NTN



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 NTN

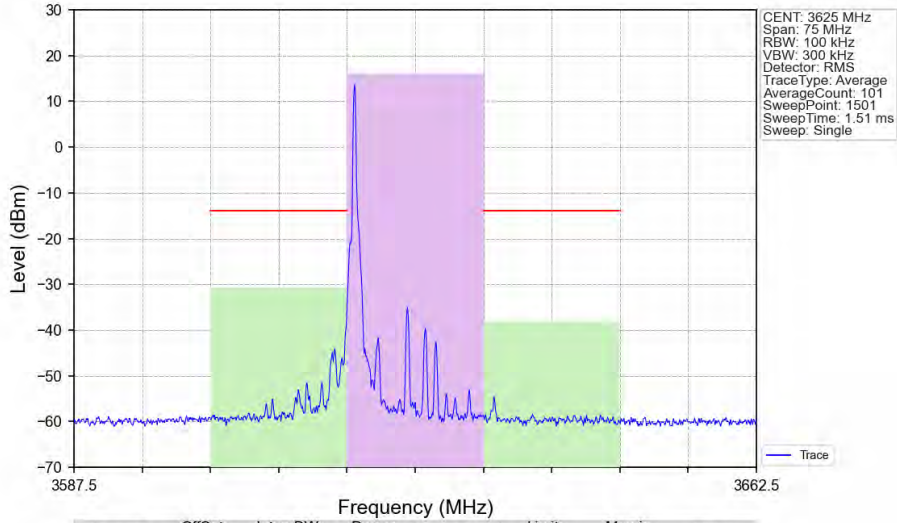


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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.15	/	/	/	/
Adjacent	-15	15.00	-30.66	-46.81	-30	16.81	Pass
Adjacent	15	15.00	-38.02	-54.17	-30	24.17	Pass

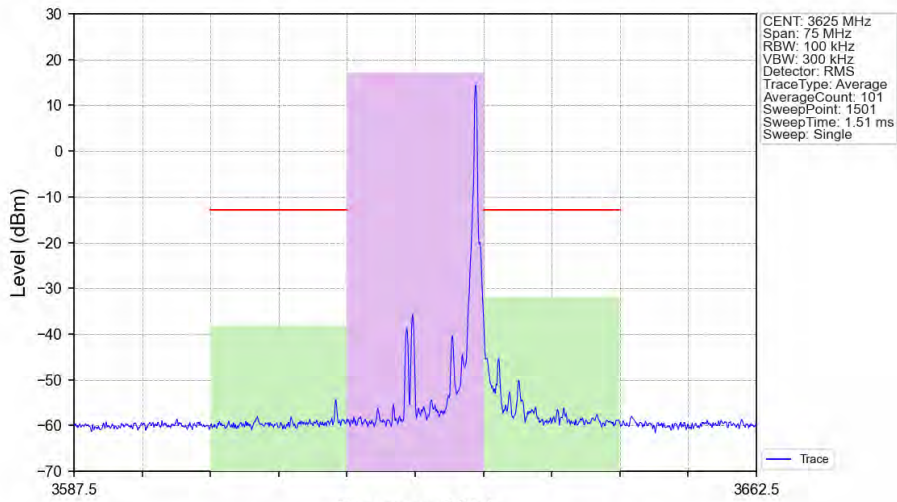


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Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_74\_NTNV



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

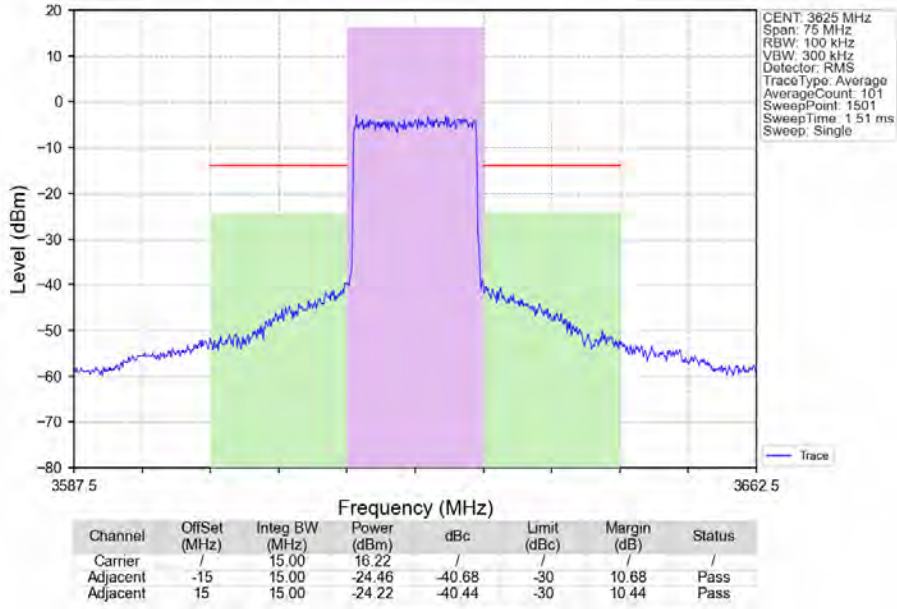
Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



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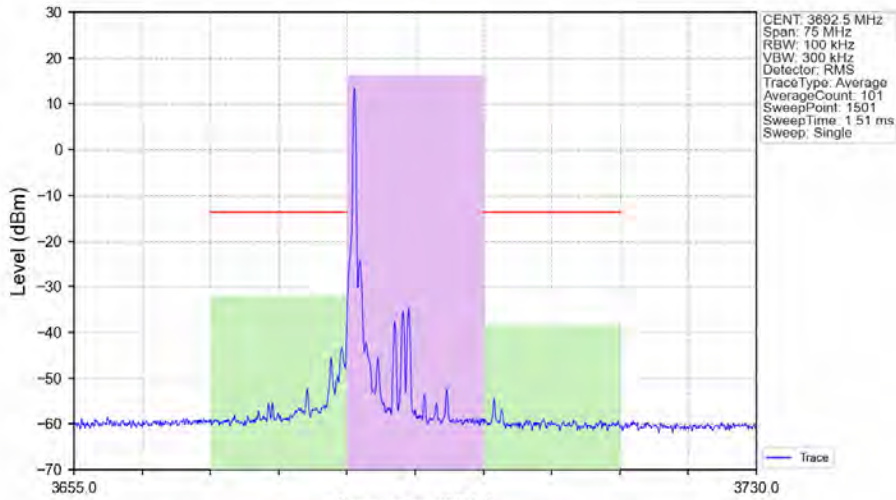


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Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_1\_0\_NTNV



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

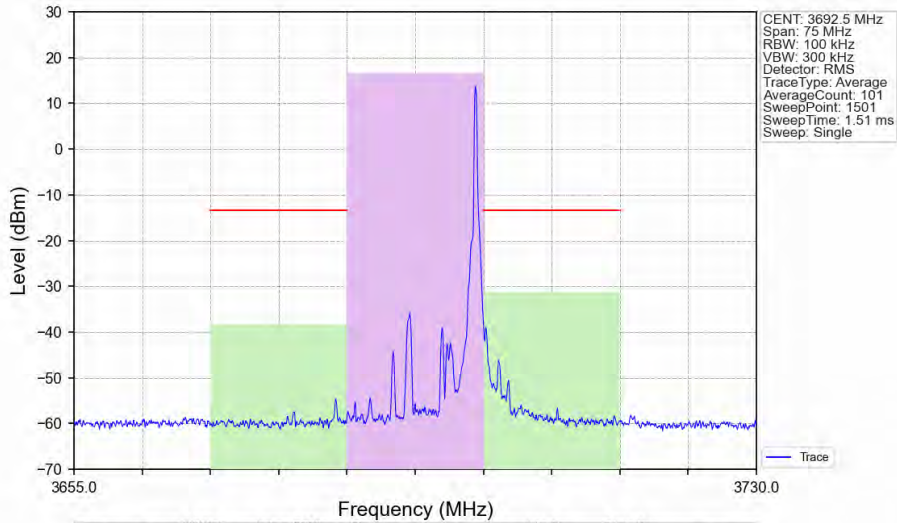
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.55	/	/	24.80	/
Adjacent	-15	15.00	-38.25	-54.80	-30	17.77	Pass
Adjacent	15	15.00	-31.22	-47.77	-30	17.77	Pass

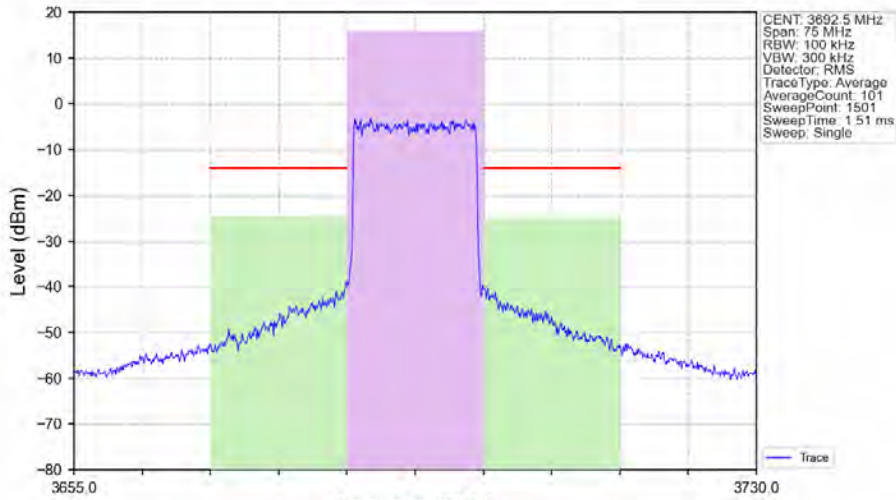


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Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	15.00	16.03	/	/	/	/
Adjacent	-15	15.00	-24.62	-40.65	-30	10.65	Pass
Adjacent	15	15.00	-25.03	-41.06	-30	11.06	Pass



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7.4 B48\_20MHz

7.4.1 Test Result

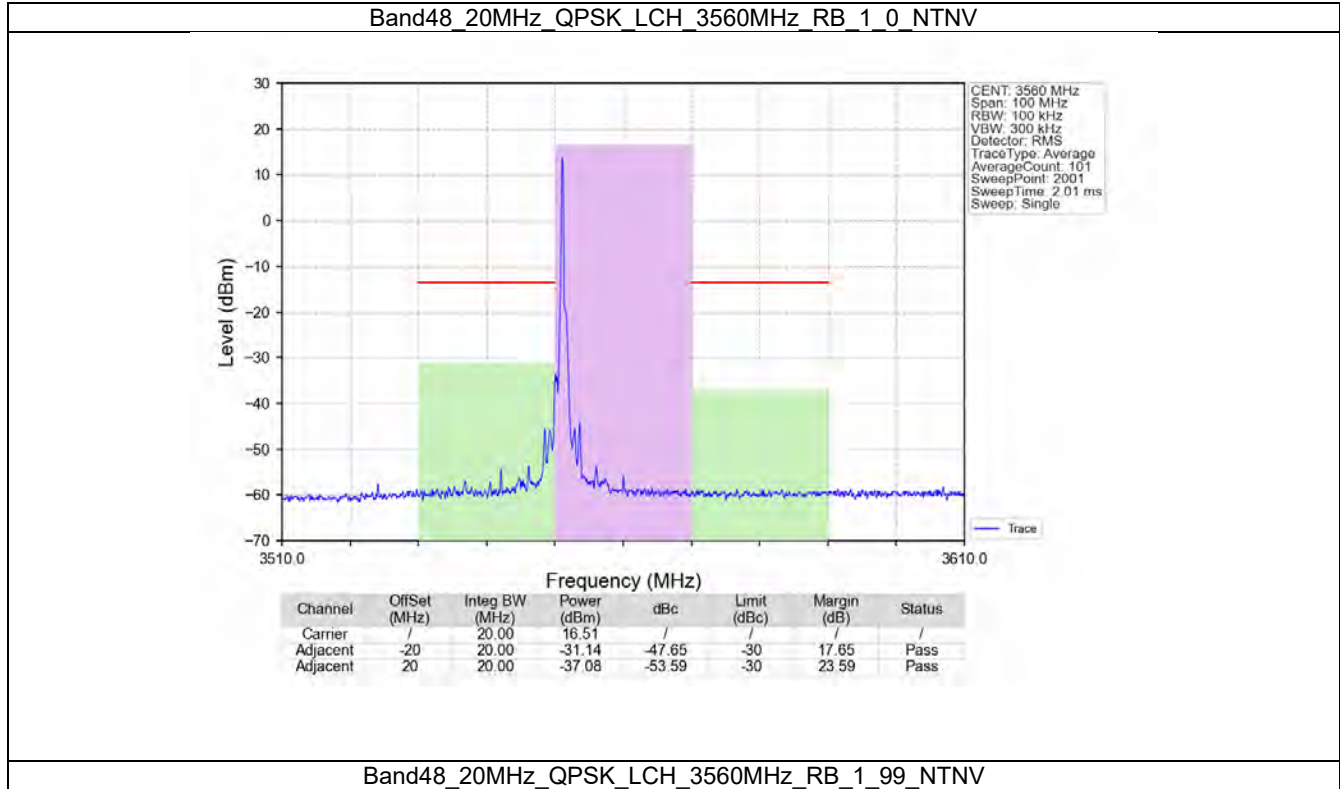
Table with columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Adjacent Channel Leakage Ratio (Result, Limit), and Verdict. Data includes QPSK modulation at frequencies 3560, 3625, and 3690 MHz.



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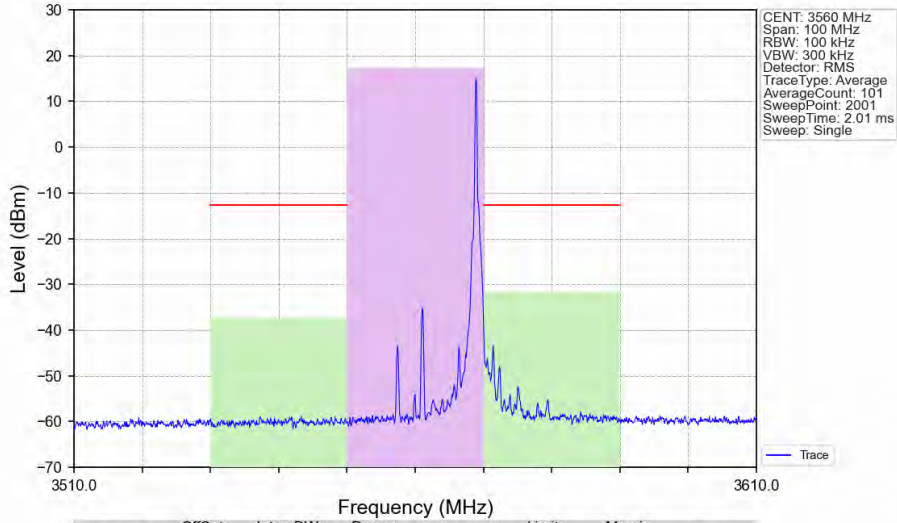
7.4.2 Test Graph



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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.31	/	/	/	/
Adjacent	-20	20.00	-37.46	-54.77	-30	24.77	Pass
Adjacent	20	20.00	-31.76	-49.07	-30	19.07	Pass



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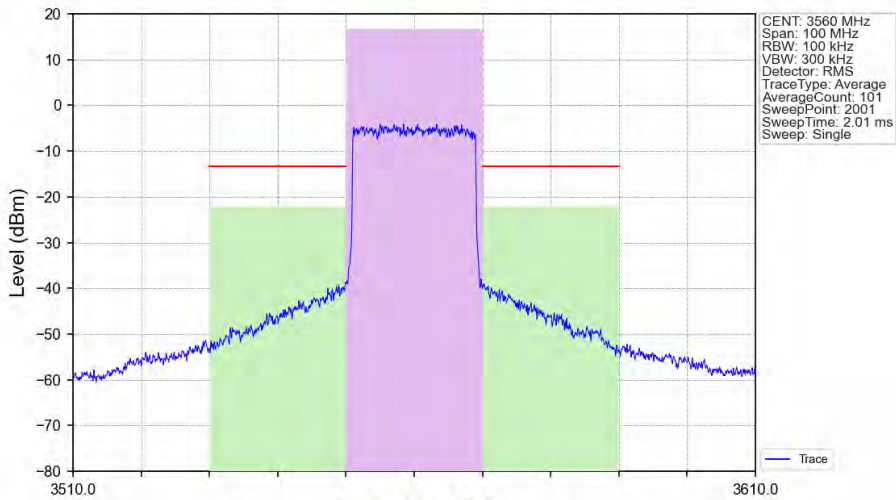


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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



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 NTN

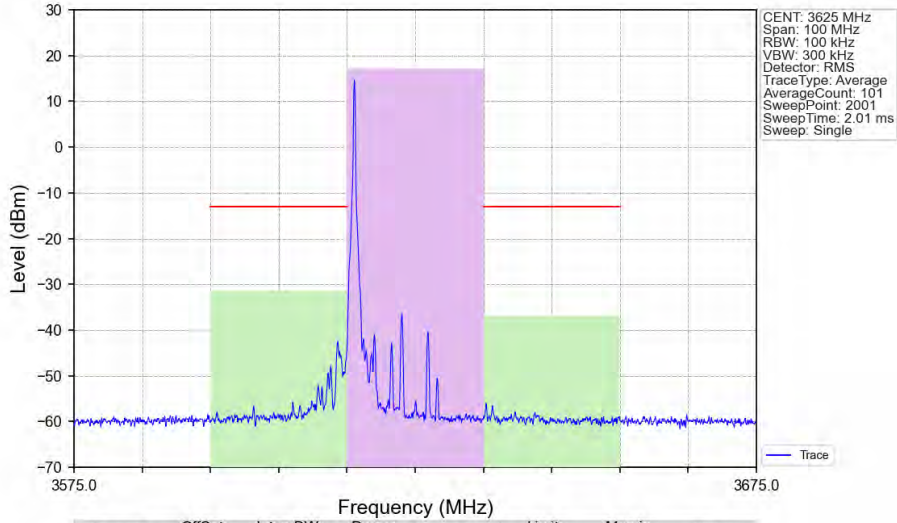


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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.04	/	/	/	/
Adjacent	-20	20.00	-31.45	-48.49	-30	18.49	Pass
Adjacent	20	20.00	-36.80	-53.84	-30	23.84	Pass



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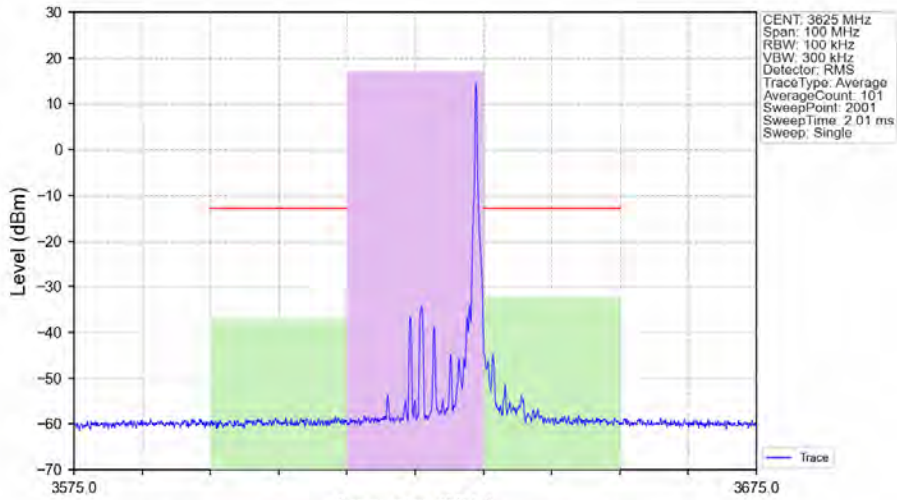
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Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_1\_99\_NTNV



Channel	Offset (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	17.16	/	/	/	/
Adjacent	-20	20.00	-37.00	-54.16	-30	24.16	Pass
Adjacent	20	20.00	-32.40	-49.56	-30	19.56	Pass

Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV

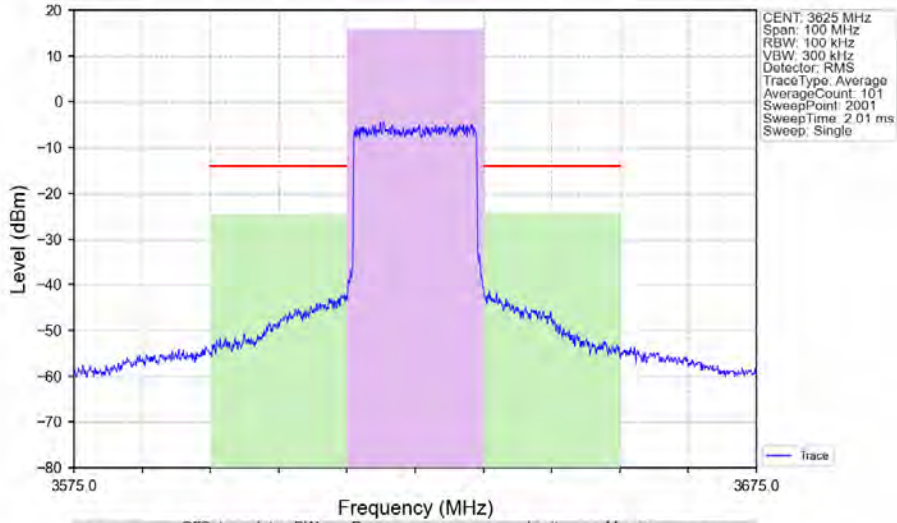


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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.97	/	/	/	/
Adjacent	-20	20.00	-24.63	-40.60	-30	10.60	Pass
Adjacent	20	20.00	-24.41	-40.38	-30	10.38	Pass

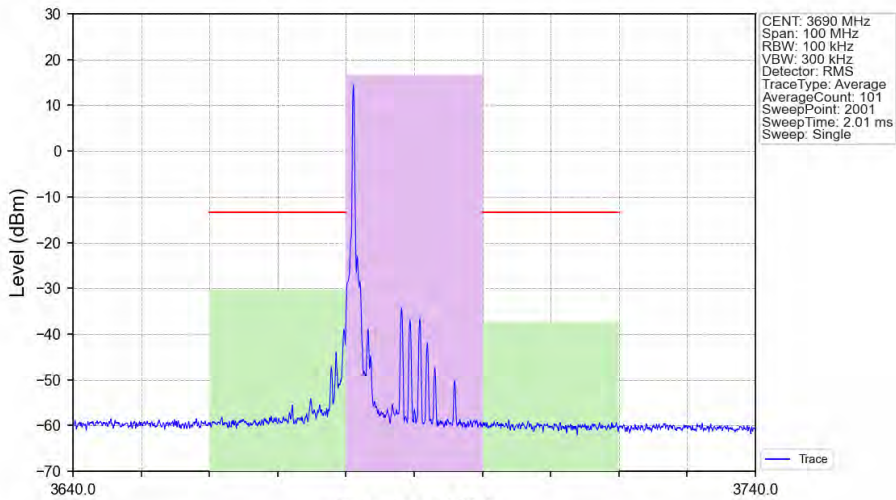


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Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_1\_0\_NTNV



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

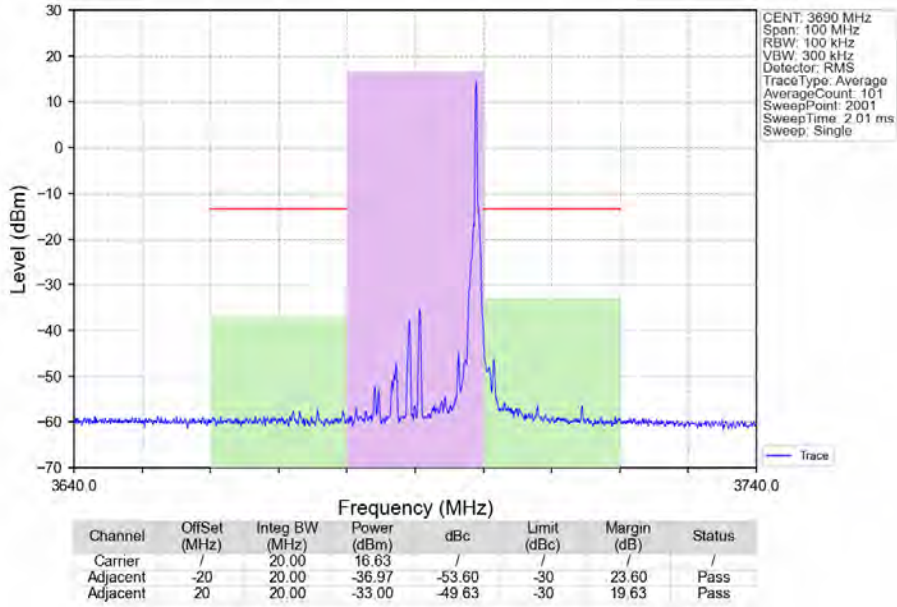


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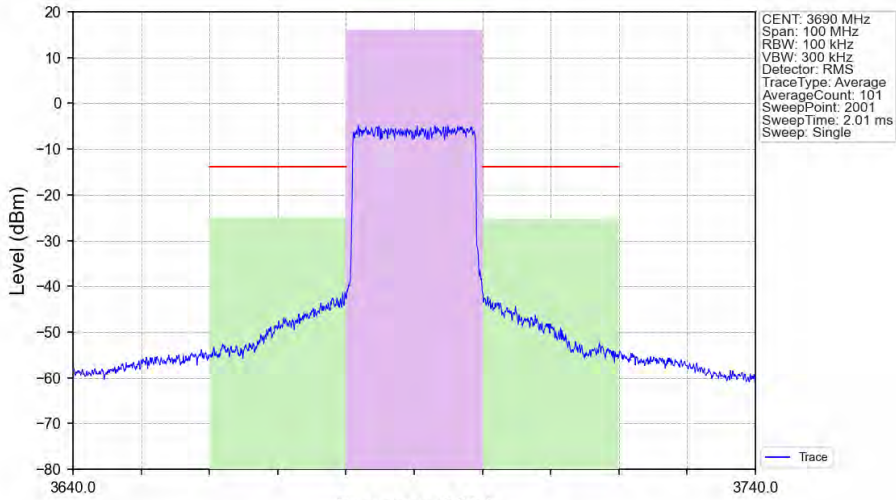


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Band48 20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



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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