



Appendix B.7

LTE Band 4

1. Frequency Stability

1.1 B4_1.4MHz

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.8	-15.239	-0.0089	-2.5 to 2.5	Pass
					4.0	-20.666	-0.0121	-2.5 to 2.5	Pass
					4.2	-13.209	-0.0077	-2.5 to 2.5	Pass
				-30	4.0	-11.944	-0.0070	-2.5 to 2.5	Pass
				-20	4.0	-7.879	-0.0046	-2.5 to 2.5	Pass
				-10	4.0	-5.920	-0.0035	-2.5 to 2.5	Pass
				0	4.0	-13.099	-0.0077	-2.5 to 2.5	Pass
				10	4.0	-10.491	-0.0061	-2.5 to 2.5	Pass
				30	4.0	2.564	0.0015	-2.5 to 2.5	Pass
				40	4.0	-6.609	-0.0039	-2.5 to 2.5	Pass
				50	4.0	-10.385	-0.0061	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.8	-21.737	-0.0125	-2.5 to 2.5	Pass
					4.0	-21.122	-0.0122	-2.5 to 2.5	Pass
					4.2	-19.329	-0.0112	-2.5 to 2.5	Pass
				-30	4.0	-13.412	-0.0077	-2.5 to 2.5	Pass
				-20	4.0	-5.774	-0.0033	-2.5 to 2.5	Pass
				-10	4.0	-1.382	-0.0008	-2.5 to 2.5	Pass
				0	4.0	-0.389	-0.0002	-2.5 to 2.5	Pass
				10	4.0	-8.211	-0.0047	-2.5 to 2.5	Pass
				30	4.0	-4.868	-0.0028	-2.5 to 2.5	Pass
				40	4.0	-0.241	-0.0001	-2.5 to 2.5	Pass
				50	4.0	2.497	0.0014	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.8	-16.334	-0.0093	-2.5 to 2.5	Pass
					4.0	-18.723	-0.0107	-2.5 to 2.5	Pass
					4.2	-17.986	-0.0103	-2.5 to 2.5	Pass
				-30	4.0	-20.905	-0.0119	-2.5 to 2.5	Pass
				-20	4.0	-16.605	-0.0095	-2.5 to 2.5	Pass
				-10	4.0	-7.386	-0.0042	-2.5 to 2.5	Pass
				0	4.0	-14.056	-0.0080	-2.5 to 2.5	Pass
				10	4.0	-10.939	-0.0062	-2.5 to 2.5	Pass
				30	4.0	-12.079	-0.0069	-2.5 to 2.5	Pass
				40	4.0	-4.586	-0.0026	-2.5 to 2.5	Pass
				50	4.0	-4.751	-0.0027	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.8	-4.897	-0.0029	-2.5 to 2.5	Pass
					4.0	-6.660	-0.0039	-2.5 to 2.5	Pass
					4.2	-5.958	-0.0035	-2.5 to 2.5	Pass
				-30	4.0	3.282	0.0019	-2.5 to 2.5	Pass
				-20	4.0	2.028	0.0012	-2.5 to 2.5	Pass
				-10	4.0	-7.381	-0.0043	-2.5 to 2.5	Pass
				0	4.0	-3.729	-0.0022	-2.5 to 2.5	Pass
				10	4.0	5.585	0.0033	-2.5 to 2.5	Pass
				30	4.0	-8.536	-0.0050	-2.5 to 2.5	Pass
				40	4.0	-7.861	-0.0046	-2.5 to 2.5	Pass
				50	4.0	4.989	0.0029	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.8	-6.070	-0.0035	-2.5 to 2.5	Pass
					4.0	-4.919	-0.0028	-2.5 to 2.5	Pass
					4.2	-3.000	-0.0017	-2.5 to 2.5	Pass
				-30	4.0	-4.731	-0.0027	-2.5 to 2.5	Pass
				-20	4.0	-8.050	-0.0046	-2.5 to 2.5	Pass



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				-10	4.0	-3.516	-0.0020	-2.5 to 2.5	Pass
				0	4.0	-7.068	-0.0041	-2.5 to 2.5	Pass
				10	4.0	3.616	0.0021	-2.5 to 2.5	Pass
				30	4.0	-4.599	-0.0027	-2.5 to 2.5	Pass
				40	4.0	5.477	0.0032	-2.5 to 2.5	Pass
				50	4.0	3.211	0.0019	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.8	1.890	0.0011	-2.5 to 2.5	Pass
					4.0	-2.845	-0.0016	-2.5 to 2.5	Pass
					4.2	-7.429	-0.0042	-2.5 to 2.5	Pass
				-30	4.0	-7.943	-0.0045	-2.5 to 2.5	Pass
				-20	4.0	6.060	0.0035	-2.5 to 2.5	Pass
				-10	4.0	0.654	0.0004	-2.5 to 2.5	Pass
				0	4.0	-8.988	-0.0051	-2.5 to 2.5	Pass
				10	4.0	-9.113	-0.0052	-2.5 to 2.5	Pass
				30	4.0	-6.195	-0.0035	-2.5 to 2.5	Pass
				40	4.0	1.937	0.0011	-2.5 to 2.5	Pass
				50	4.0	-4.142	-0.0024	-2.5 to 2.5	Pass
64QAM	1710.7	6	0	20	3.8	-0.588	-0.0003	-2.5 to 2.5	Pass
					4.0	7.786	0.0046	-2.5 to 2.5	Pass
					4.2	0.757	0.0004	-2.5 to 2.5	Pass
				-30	4.0	5.986	0.0035	-2.5 to 2.5	Pass
				-20	4.0	1.225	0.0007	-2.5 to 2.5	Pass
				-10	4.0	2.465	0.0014	-2.5 to 2.5	Pass
				0	4.0	-0.944	-0.0006	-2.5 to 2.5	Pass
				10	4.0	-3.458	-0.0020	-2.5 to 2.5	Pass
				30	4.0	-2.453	-0.0014	-2.5 to 2.5	Pass
				40	4.0	2.099	0.0012	-2.5 to 2.5	Pass
				50	4.0	-7.230	-0.0042	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.8	1.020	0.0006	-2.5 to 2.5	Pass
					4.0	1.357	0.0008	-2.5 to 2.5	Pass
					4.2	-6.043	-0.0035	-2.5 to 2.5	Pass
				-30	4.0	5.961	0.0034	-2.5 to 2.5	Pass
				-20	4.0	-7.360	-0.0042	-2.5 to 2.5	Pass
				-10	4.0	7.723	0.0045	-2.5 to 2.5	Pass
				0	4.0	7.823	0.0045	-2.5 to 2.5	Pass
				10	4.0	-1.101	-0.0006	-2.5 to 2.5	Pass
				30	4.0	4.041	0.0023	-2.5 to 2.5	Pass
				40	4.0	1.645	0.0009	-2.5 to 2.5	Pass
				50	4.0	-0.395	-0.0002	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.8	7.569	0.0043	-2.5 to 2.5	Pass
					4.0	3.583	0.0020	-2.5 to 2.5	Pass
					4.2	-3.329	-0.0019	-2.5 to 2.5	Pass
				-30	4.0	4.265	0.0024	-2.5 to 2.5	Pass
				-20	4.0	1.586	0.0009	-2.5 to 2.5	Pass
				-10	4.0	-8.093	-0.0046	-2.5 to 2.5	Pass
				0	4.0	-5.649	-0.0032	-2.5 to 2.5	Pass
				10	4.0	-0.654	-0.0004	-2.5 to 2.5	Pass
				30	4.0	-4.308	-0.0025	-2.5 to 2.5	Pass
				40	4.0	3.386	0.0019	-2.5 to 2.5	Pass
				50	4.0	-3.084	-0.0018	-2.5 to 2.5	Pass

1.2 B4_3MHz

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.8	-0.938	-0.0005	-2.5 to 2.5	Pass
					4.0	-5.032	-0.0029	-2.5 to 2.5	Pass
					4.2	-9.303	-0.0054	-2.5 to 2.5	Pass
				-30	4.0	-4.373	-0.0026	-2.5 to 2.5	Pass
				-20	4.0	-10.289	-0.0060	-2.5 to 2.5	Pass
				-10	4.0	-1.543	-0.0009	-2.5 to 2.5	Pass
				0	4.0	-6.357	-0.0037	-2.5 to 2.5	Pass
				10	4.0	1.949	0.0011	-2.5 to 2.5	Pass
				30	4.0	-1.476	-0.0009	-2.5 to 2.5	Pass
				40	4.0	-1.379	-0.0008	-2.5 to 2.5	Pass
				50	4.0	1.638	0.0010	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.8	6.954	0.0040	-2.5 to 2.5	Pass
					4.0	2.629	0.0015	-2.5 to 2.5	Pass
					4.2	5.600	0.0032	-2.5 to 2.5	Pass
				-30	4.0	1.578	0.0009	-2.5 to 2.5	Pass
				-20	4.0	5.833	0.0034	-2.5 to 2.5	Pass
				-10	4.0	0.251	0.0001	-2.5 to 2.5	Pass
				0	4.0	-1.219	-0.0007	-2.5 to 2.5	Pass
				10	4.0	7.574	0.0044	-2.5 to 2.5	Pass
				30	4.0	6.376	0.0037	-2.5 to 2.5	Pass
				40	4.0	5.824	0.0034	-2.5 to 2.5	Pass
				50	4.0	-4.804	-0.0028	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.8	8.509	0.0049	-2.5 to 2.5	Pass
					4.0	7.943	0.0045	-2.5 to 2.5	Pass
					4.2	-1.975	-0.0011	-2.5 to 2.5	Pass
				-30	4.0	-3.053	-0.0017	-2.5 to 2.5	Pass
				-20	4.0	0.278	0.0002	-2.5 to 2.5	Pass
				-10	4.0	-0.710	-0.0004	-2.5 to 2.5	Pass
				0	4.0	4.028	0.0023	-2.5 to 2.5	Pass
				10	4.0	6.876	0.0039	-2.5 to 2.5	Pass
				30	4.0	-6.729	-0.0038	-2.5 to 2.5	Pass
				40	4.0	-6.288	-0.0036	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.8	-4.427	-0.0026	-2.5 to 2.5	Pass
					4.0	-1.434	-0.0008	-2.5 to 2.5	Pass
					4.2	-4.779	-0.0028	-2.5 to 2.5	Pass
				-30	4.0	1.113	0.0007	-2.5 to 2.5	Pass
				-20	4.0	-13.220	-0.0077	-2.5 to 2.5	Pass
				-10	4.0	-6.860	-0.0040	-2.5 to 2.5	Pass
				0	4.0	-1.716	-0.0010	-2.5 to 2.5	Pass
				10	4.0	-13.778	-0.0081	-2.5 to 2.5	Pass
				30	4.0	-5.575	-0.0033	-2.5 to 2.5	Pass
				40	4.0	0.992	0.0006	-2.5 to 2.5	Pass
				50	4.0	-6.545	-0.0038	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.8	1.854	0.0011	-2.5 to 2.5	Pass
					4.0	4.169	0.0024	-2.5 to 2.5	Pass
					4.2	0.596	0.0003	-2.5 to 2.5	Pass
				-30	4.0	-6.982	-0.0040	-2.5 to 2.5	Pass
				-20	4.0	0.645	0.0004	-2.5 to 2.5	Pass
				-10	4.0	-4.371	-0.0025	-2.5 to 2.5	Pass
				0	4.0	6.557	0.0038	-2.5 to 2.5	Pass



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				10	4.0	-3.838	-0.0022	-2.5 to 2.5	Pass
				30	4.0	0.641	0.0004	-2.5 to 2.5	Pass
				40	4.0	-4.565	-0.0026	-2.5 to 2.5	Pass
				50	4.0	7.085	0.0041	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.8	-6.343	-0.0036	-2.5 to 2.5	Pass
					4.0	-0.518	-0.0003	-2.5 to 2.5	Pass
					4.2	8.718	0.0050	-2.5 to 2.5	Pass
				-30	4.0	2.671	0.0015	-2.5 to 2.5	Pass
				-20	4.0	-6.287	-0.0036	-2.5 to 2.5	Pass
				-10	4.0	-3.705	-0.0021	-2.5 to 2.5	Pass
				0	4.0	-1.889	-0.0011	-2.5 to 2.5	Pass
				10	4.0	-0.266	-0.0002	-2.5 to 2.5	Pass
				30	4.0	0.634	0.0004	-2.5 to 2.5	Pass
				40	4.0	-5.938	-0.0034	-2.5 to 2.5	Pass
				50	4.0	-5.737	-0.0033	-2.5 to 2.5	Pass
64QAM	1711.5	15	0	20	3.8	-11.709	-0.0068	-2.5 to 2.5	Pass
					4.0	-1.683	-0.0010	-2.5 to 2.5	Pass
					4.2	-13.414	-0.0078	-2.5 to 2.5	Pass
				-30	4.0	-7.214	-0.0042	-2.5 to 2.5	Pass
				-20	4.0	-11.303	-0.0066	-2.5 to 2.5	Pass
				-10	4.0	-3.740	-0.0022	-2.5 to 2.5	Pass
				0	4.0	-7.332	-0.0043	-2.5 to 2.5	Pass
				10	4.0	-2.121	-0.0012	-2.5 to 2.5	Pass
				30	4.0	-8.428	-0.0049	-2.5 to 2.5	Pass
				40	4.0	-6.977	-0.0041	-2.5 to 2.5	Pass
				50	4.0	-8.782	-0.0051	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.8	-1.489	-0.0009	-2.5 to 2.5	Pass
					4.0	8.813	0.0051	-2.5 to 2.5	Pass
					4.2	-8.280	-0.0048	-2.5 to 2.5	Pass
				-30	4.0	-6.124	-0.0035	-2.5 to 2.5	Pass
				-20	4.0	-4.032	-0.0023	-2.5 to 2.5	Pass
				-10	4.0	-0.575	-0.0003	-2.5 to 2.5	Pass
				0	4.0	-3.537	-0.0020	-2.5 to 2.5	Pass
				10	4.0	-5.550	-0.0032	-2.5 to 2.5	Pass
				30	4.0	-5.707	-0.0033	-2.5 to 2.5	Pass
				40	4.0	7.447	0.0043	-2.5 to 2.5	Pass
				50	4.0	-8.807	-0.0051	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.8	-3.402	-0.0019	-2.5 to 2.5	Pass
					4.0	-8.853	-0.0050	-2.5 to 2.5	Pass
					4.2	-5.948	-0.0034	-2.5 to 2.5	Pass
				-30	4.0	3.859	0.0022	-2.5 to 2.5	Pass
				-20	4.0	-3.017	-0.0017	-2.5 to 2.5	Pass
				-10	4.0	-3.356	-0.0019	-2.5 to 2.5	Pass
				0	4.0	-3.489	-0.0020	-2.5 to 2.5	Pass
				10	4.0	-4.836	-0.0028	-2.5 to 2.5	Pass
				30	4.0	2.117	0.0012	-2.5 to 2.5	Pass
				40	4.0	-5.095	-0.0029	-2.5 to 2.5	Pass
				50	4.0	5.103	0.0029	-2.5 to 2.5	Pass

1.3 B4_5MHz

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.8	-2.261	-0.0013	-2.5 to 2.5	Pass
					4.0	-10.854	-0.0063	-2.5 to 2.5	Pass
					4.2	-1.127	-0.0007	-2.5 to 2.5	Pass
				-30	4.0	-5.541	-0.0032	-2.5 to 2.5	Pass
				-20	4.0	0.653	0.0004	-2.5 to 2.5	Pass
				-10	4.0	-7.935	-0.0046	-2.5 to 2.5	Pass
				0	4.0	-7.545	-0.0044	-2.5 to 2.5	Pass
				10	4.0	-12.463	-0.0073	-2.5 to 2.5	Pass
				30	4.0	-12.288	-0.0072	-2.5 to 2.5	Pass
				40	4.0	-10.281	-0.0060	-2.5 to 2.5	Pass
				50	4.0	-12.981	-0.0076	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.8	3.851	0.0022	-2.5 to 2.5	Pass
					4.0	-2.512	-0.0014	-2.5 to 2.5	Pass
					4.2	-2.926	-0.0017	-2.5 to 2.5	Pass
				-30	4.0	2.206	0.0013	-2.5 to 2.5	Pass
				-20	4.0	-1.477	-0.0009	-2.5 to 2.5	Pass
				-10	4.0	-6.162	-0.0036	-2.5 to 2.5	Pass
				0	4.0	3.548	0.0020	-2.5 to 2.5	Pass
				10	4.0	7.008	0.0040	-2.5 to 2.5	Pass
				30	4.0	8.359	0.0048	-2.5 to 2.5	Pass
				40	4.0	7.600	0.0044	-2.5 to 2.5	Pass
				50	4.0	-0.206	-0.0001	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.8	4.196	0.0024	-2.5 to 2.5	Pass
					4.0	4.478	0.0026	-2.5 to 2.5	Pass
					4.2	-0.704	-0.0004	-2.5 to 2.5	Pass
				-30	4.0	-0.896	-0.0005	-2.5 to 2.5	Pass
				-20	4.0	3.729	0.0021	-2.5 to 2.5	Pass
				-10	4.0	0.287	0.0002	-2.5 to 2.5	Pass
				0	4.0	1.611	0.0009	-2.5 to 2.5	Pass
				10	4.0	0.908	0.0005	-2.5 to 2.5	Pass
				30	4.0	7.043	0.0040	-2.5 to 2.5	Pass
				40	4.0	-2.780	-0.0016	-2.5 to 2.5	Pass
				50	4.0	-7.909	-0.0045	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.8	-13.945	-0.0081	-2.5 to 2.5	Pass
					4.0	-13.254	-0.0077	-2.5 to 2.5	Pass
					4.2	-11.793	-0.0069	-2.5 to 2.5	Pass
				-30	4.0	-7.318	-0.0043	-2.5 to 2.5	Pass
				-20	4.0	-13.395	-0.0078	-2.5 to 2.5	Pass
				-10	4.0	-10.626	-0.0062	-2.5 to 2.5	Pass
				0	4.0	-1.987	-0.0012	-2.5 to 2.5	Pass
				10	4.0	-1.867	-0.0011	-2.5 to 2.5	Pass
				30	4.0	-9.597	-0.0056	-2.5 to 2.5	Pass
				40	4.0	-11.747	-0.0069	-2.5 to 2.5	Pass
				50	4.0	-12.155	-0.0071	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.8	-1.333	-0.0008	-2.5 to 2.5	Pass
					4.0	-6.014	-0.0035	-2.5 to 2.5	Pass
					4.2	9.020	0.0052	-2.5 to 2.5	Pass
				-30	4.0	7.359	0.0042	-2.5 to 2.5	Pass
				-20	4.0	-0.323	-0.0002	-2.5 to 2.5	Pass
				-10	4.0	8.335	0.0048	-2.5 to 2.5	Pass
				0	4.0	-3.355	-0.0019	-2.5 to 2.5	Pass



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				10	4.0	3.615	0.0021	-2.5 to 2.5	Pass
				30	4.0	-7.191	-0.0042	-2.5 to 2.5	Pass
				40	4.0	6.569	0.0038	-2.5 to 2.5	Pass
				50	4.0	6.885	0.0040	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.8	1.386	0.0008	-2.5 to 2.5	Pass
					4.0	2.966	0.0017	-2.5 to 2.5	Pass
					4.2	-6.694	-0.0038	-2.5 to 2.5	Pass
				-30	4.0	-9.163	-0.0052	-2.5 to 2.5	Pass
				-20	4.0	6.117	0.0035	-2.5 to 2.5	Pass
				-10	4.0	5.590	0.0032	-2.5 to 2.5	Pass
				0	4.0	-5.740	-0.0033	-2.5 to 2.5	Pass
				10	4.0	4.683	0.0027	-2.5 to 2.5	Pass
				30	4.0	-3.242	-0.0018	-2.5 to 2.5	Pass
				40	4.0	2.923	0.0017	-2.5 to 2.5	Pass
				50	4.0	-6.784	-0.0039	-2.5 to 2.5	Pass
64QAM	1712.5	25	0	20	3.8	-1.200	-0.0007	-2.5 to 2.5	Pass
					4.0	-7.348	-0.0043	-2.5 to 2.5	Pass
					4.2	-6.997	-0.0041	-2.5 to 2.5	Pass
				-30	4.0	-13.504	-0.0079	-2.5 to 2.5	Pass
				-20	4.0	-13.871	-0.0081	-2.5 to 2.5	Pass
				-10	4.0	-6.627	-0.0039	-2.5 to 2.5	Pass
				0	4.0	-5.447	-0.0032	-2.5 to 2.5	Pass
				10	4.0	-5.265	-0.0031	-2.5 to 2.5	Pass
				30	4.0	-1.474	-0.0009	-2.5 to 2.5	Pass
				40	4.0	1.291	0.0008	-2.5 to 2.5	Pass
				50	4.0	-12.290	-0.0072	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.8	-6.617	-0.0038	-2.5 to 2.5	Pass
					4.0	4.951	0.0029	-2.5 to 2.5	Pass
					4.2	5.251	0.0030	-2.5 to 2.5	Pass
				-30	4.0	4.871	0.0028	-2.5 to 2.5	Pass
				-20	4.0	4.801	0.0028	-2.5 to 2.5	Pass
				-10	4.0	-3.500	-0.0020	-2.5 to 2.5	Pass
				0	4.0	4.402	0.0025	-2.5 to 2.5	Pass
				10	4.0	0.205	0.0001	-2.5 to 2.5	Pass
				30	4.0	-4.501	-0.0026	-2.5 to 2.5	Pass
				40	4.0	6.042	0.0035	-2.5 to 2.5	Pass
				50	4.0	6.021	0.0035	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.8	3.782	0.0022	-2.5 to 2.5	Pass
					4.0	-1.341	-0.0008	-2.5 to 2.5	Pass
					4.2	-9.009	-0.0051	-2.5 to 2.5	Pass
				-30	4.0	-3.304	-0.0019	-2.5 to 2.5	Pass
				-20	4.0	-7.224	-0.0041	-2.5 to 2.5	Pass
				-10	4.0	1.022	0.0006	-2.5 to 2.5	Pass
				0	4.0	1.986	0.0011	-2.5 to 2.5	Pass
				10	4.0	4.106	0.0023	-2.5 to 2.5	Pass
				30	4.0	5.576	0.0032	-2.5 to 2.5	Pass
				40	4.0	1.657	0.0009	-2.5 to 2.5	Pass
				50	4.0	6.957	0.0040	-2.5 to 2.5	Pass

1.4 B4_10MHz

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.8	-5.768	-0.0034	-2.5 to 2.5	Pass
					4.0	3.119	0.0018	-2.5 to 2.5	Pass
					4.2	-3.968	-0.0023	-2.5 to 2.5	Pass
				-30	4.0	5.576	0.0033	-2.5 to 2.5	Pass
				-20	4.0	-4.200	-0.0024	-2.5 to 2.5	Pass
				-10	4.0	2.306	0.0013	-2.5 to 2.5	Pass
				0	4.0	-2.322	-0.0014	-2.5 to 2.5	Pass
				10	4.0	-7.375	-0.0043	-2.5 to 2.5	Pass
				30	4.0	5.087	0.0030	-2.5 to 2.5	Pass
				40	4.0	6.843	0.0040	-2.5 to 2.5	Pass
	1732.5	50	0	20	4.0	6.618	0.0039	-2.5 to 2.5	Pass
					3.8	-4.653	-0.0027	-2.5 to 2.5	Pass
					4.0	-3.067	-0.0018	-2.5 to 2.5	Pass
				-30	4.2	-6.223	-0.0036	-2.5 to 2.5	Pass
					4.0	-4.672	-0.0027	-2.5 to 2.5	Pass
					4.0	-3.303	-0.0019	-2.5 to 2.5	Pass
				-20	4.0	8.677	0.0050	-2.5 to 2.5	Pass
				-10	4.0	0.904	0.0005	-2.5 to 2.5	Pass
				0	4.0	0.904	0.0005	-2.5 to 2.5	Pass
				10	4.0	0.919	0.0005	-2.5 to 2.5	Pass
	1750	50	0	30	4.0	-1.724	-0.0010	-2.5 to 2.5	Pass
					4.0	4.106	0.0024	-2.5 to 2.5	Pass
					4.0	-5.325	-0.0031	-2.5 to 2.5	Pass
				20	4.0	0.017	0.0000	-2.5 to 2.5	Pass
					4.0	-2.284	-0.0013	-2.5 to 2.5	Pass
					4.2	-10.222	-0.0058	-2.5 to 2.5	Pass
				-30	4.0	-1.095	-0.0006	-2.5 to 2.5	Pass
				-20	4.0	1.069	0.0006	-2.5 to 2.5	Pass
				-10	4.0	-9.991	-0.0057	-2.5 to 2.5	Pass
				0	4.0	-5.473	-0.0031	-2.5 to 2.5	Pass
16QAM	1715	50	0	10	4.0	-13.988	-0.0080	-2.5 to 2.5	Pass
					4.0	-13.875	-0.0079	-2.5 to 2.5	Pass
					4.0	-10.970	-0.0063	-2.5 to 2.5	Pass
				30	4.0	-14.985	-0.0086	-2.5 to 2.5	Pass
					4.0	3.290	0.0019	-2.5 to 2.5	Pass
					4.0	2.677	0.0016	-2.5 to 2.5	Pass
				20	4.2	3.067	0.0018	-2.5 to 2.5	Pass
					4.0	-5.777	-0.0034	-2.5 to 2.5	Pass
					4.0	3.246	0.0019	-2.5 to 2.5	Pass
				-30	4.0	7.744	0.0045	-2.5 to 2.5	Pass
	1732.5	50	0	-20	4.0	-2.545	-0.0015	-2.5 to 2.5	Pass
				-10	4.0	-7.769	-0.0045	-2.5 to 2.5	Pass
				0	4.0	-2.451	-0.0014	-2.5 to 2.5	Pass
				10	4.0	-3.646	-0.0021	-2.5 to 2.5	Pass
				30	4.0	6.962	0.0041	-2.5 to 2.5	Pass
				40	4.0	-5.600	-0.0032	-2.5 to 2.5	Pass
				50	4.0	2.471	0.0014	-2.5 to 2.5	Pass
				20	4.2	-0.903	-0.0005	-2.5 to 2.5	Pass
					4.0	-5.951	-0.0034	-2.5 to 2.5	Pass
					4.0	6.489	0.0037	-2.5 to 2.5	Pass
	1750	50	0	-30	4.0	-5.292	-0.0031	-2.5 to 2.5	Pass
				-20	4.0	-3.356	-0.0019	-2.5 to 2.5	Pass
				-10	4.0	-3.356	-0.0019	-2.5 to 2.5	Pass
				0	4.0	-3.356	-0.0019	-2.5 to 2.5	Pass



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				10	4.0	6.108	0.0035	-2.5 to 2.5	Pass
				30	4.0	-5.192	-0.0030	-2.5 to 2.5	Pass
				40	4.0	1.661	0.0010	-2.5 to 2.5	Pass
				50	4.0	4.493	0.0026	-2.5 to 2.5	Pass
	1750	50	0	20	3.8	-5.590	-0.0032	-2.5 to 2.5	Pass
					4.0	-3.031	-0.0017	-2.5 to 2.5	Pass
					4.2	-3.836	-0.0022	-2.5 to 2.5	Pass
				-30	4.0	-4.325	-0.0025	-2.5 to 2.5	Pass
				-20	4.0	-9.161	-0.0052	-2.5 to 2.5	Pass
				-10	4.0	-2.109	-0.0012	-2.5 to 2.5	Pass
				0	4.0	-11.198	-0.0064	-2.5 to 2.5	Pass
				10	4.0	-8.915	-0.0051	-2.5 to 2.5	Pass
				30	4.0	-8.511	-0.0049	-2.5 to 2.5	Pass
				40	4.0	-1.213	-0.0007	-2.5 to 2.5	Pass
				50	4.0	-2.942	-0.0017	-2.5 to 2.5	Pass
64QAM	1715	50	0	20	3.8	-6.926	-0.0040	-2.5 to 2.5	Pass
					4.0	0.063	0.0000	-2.5 to 2.5	Pass
					4.2	7.504	0.0044	-2.5 to 2.5	Pass
				-30	4.0	6.476	0.0038	-2.5 to 2.5	Pass
				-20	4.0	7.136	0.0042	-2.5 to 2.5	Pass
				-10	4.0	5.827	0.0034	-2.5 to 2.5	Pass
				0	4.0	6.848	0.0040	-2.5 to 2.5	Pass
				10	4.0	-3.106	-0.0018	-2.5 to 2.5	Pass
				30	4.0	5.610	0.0033	-2.5 to 2.5	Pass
				40	4.0	4.183	0.0024	-2.5 to 2.5	Pass
				50	4.0	-3.563	-0.0021	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.8	1.655	0.0010	-2.5 to 2.5	Pass
					4.0	7.910	0.0046	-2.5 to 2.5	Pass
					4.2	-2.554	-0.0015	-2.5 to 2.5	Pass
				-30	4.0	-0.416	-0.0002	-2.5 to 2.5	Pass
				-20	4.0	0.620	0.0004	-2.5 to 2.5	Pass
				-10	4.0	-7.044	-0.0041	-2.5 to 2.5	Pass
				0	4.0	0.692	0.0004	-2.5 to 2.5	Pass
				10	4.0	6.751	0.0039	-2.5 to 2.5	Pass
				30	4.0	-5.549	-0.0032	-2.5 to 2.5	Pass
				40	4.0	6.022	0.0035	-2.5 to 2.5	Pass
				50	4.0	-3.224	-0.0019	-2.5 to 2.5	Pass
	1750	50	0	20	3.8	-1.180	-0.0007	-2.5 to 2.5	Pass
					4.0	-7.807	-0.0045	-2.5 to 2.5	Pass
					4.2	0.657	0.0004	-2.5 to 2.5	Pass
				-30	4.0	-11.472	-0.0066	-2.5 to 2.5	Pass
				-20	4.0	-13.927	-0.0080	-2.5 to 2.5	Pass
				-10	4.0	-6.802	-0.0039	-2.5 to 2.5	Pass
				0	4.0	-4.339	-0.0025	-2.5 to 2.5	Pass
				10	4.0	-3.455	-0.0020	-2.5 to 2.5	Pass
				30	4.0	-12.510	-0.0071	-2.5 to 2.5	Pass
				40	4.0	-3.511	-0.0020	-2.5 to 2.5	Pass
				50	4.0	-14.886	-0.0085	-2.5 to 2.5	Pass

1.5 B4_15MHz

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.8	-4.493	-0.0026	-2.5 to 2.5	Pass
					4.0	-0.555	-0.0003	-2.5 to 2.5	Pass
					4.2	5.035	0.0029	-2.5 to 2.5	Pass
				-30	4.0	-6.051	-0.0035	-2.5 to 2.5	Pass
				-20	4.0	-4.826	-0.0028	-2.5 to 2.5	Pass
				-10	4.0	-2.050	-0.0012	-2.5 to 2.5	Pass
				0	4.0	-7.253	-0.0042	-2.5 to 2.5	Pass
				10	4.0	-2.697	-0.0016	-2.5 to 2.5	Pass
				30	4.0	-6.073	-0.0035	-2.5 to 2.5	Pass
				40	4.0	-0.834	-0.0005	-2.5 to 2.5	Pass
				50	4.0	6.824	0.0040	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.8	-5.473	-0.0032	-2.5 to 2.5	Pass
					4.0	7.184	0.0041	-2.5 to 2.5	Pass
					4.2	1.737	0.0010	-2.5 to 2.5	Pass
				-30	4.0	-5.264	-0.0030	-2.5 to 2.5	Pass
				-20	4.0	-6.888	-0.0040	-2.5 to 2.5	Pass
				-10	4.0	-1.266	-0.0007	-2.5 to 2.5	Pass
				0	4.0	-5.710	-0.0033	-2.5 to 2.5	Pass
				10	4.0	-5.530	-0.0032	-2.5 to 2.5	Pass
				30	4.0	-7.218	-0.0042	-2.5 to 2.5	Pass
				40	4.0	5.182	0.0030	-2.5 to 2.5	Pass
				50	4.0	1.778	0.0010	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.8	3.412	0.0020	-2.5 to 2.5	Pass
					4.0	-2.858	-0.0016	-2.5 to 2.5	Pass
					4.2	3.190	0.0018	-2.5 to 2.5	Pass
				-30	4.0	4.673	0.0027	-2.5 to 2.5	Pass
				-20	4.0	-2.014	-0.0012	-2.5 to 2.5	Pass
				-10	4.0	-6.181	-0.0035	-2.5 to 2.5	Pass
				0	4.0	8.234	0.0047	-2.5 to 2.5	Pass
				10	4.0	-5.746	-0.0033	-2.5 to 2.5	Pass
				30	4.0	-3.078	-0.0018	-2.5 to 2.5	Pass
				40	4.0	4.730	0.0027	-2.5 to 2.5	Pass
				50	4.0	1.136	0.0007	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.8	-3.401	-0.0020	-2.5 to 2.5	Pass
					4.0	5.053	0.0029	-2.5 to 2.5	Pass
					4.2	5.155	0.0030	-2.5 to 2.5	Pass
				-30	4.0	7.281	0.0042	-2.5 to 2.5	Pass
				-20	4.0	0.205	0.0001	-2.5 to 2.5	Pass
				-10	4.0	4.304	0.0025	-2.5 to 2.5	Pass
				0	4.0	-0.742	-0.0004	-2.5 to 2.5	Pass
				10	4.0	-2.479	-0.0014	-2.5 to 2.5	Pass
				30	4.0	-6.201	-0.0036	-2.5 to 2.5	Pass
				40	4.0	-1.845	-0.0011	-2.5 to 2.5	Pass
				50	4.0	-3.916	-0.0023	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.8	3.248	0.0019	-2.5 to 2.5	Pass
					4.0	6.675	0.0039	-2.5 to 2.5	Pass
					4.2	-0.611	-0.0004	-2.5 to 2.5	Pass
				-30	4.0	6.128	0.0035	-2.5 to 2.5	Pass
				-20	4.0	-6.483	-0.0037	-2.5 to 2.5	Pass
				-10	4.0	-6.685	-0.0039	-2.5 to 2.5	Pass
				0	4.0	8.375	0.0048	-2.5 to 2.5	Pass



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				10	4.0	-2.907	-0.0017	-2.5 to 2.5	Pass
				30	4.0	-3.063	-0.0018	-2.5 to 2.5	Pass
				40	4.0	6.908	0.0040	-2.5 to 2.5	Pass
				50	4.0	6.245	0.0036	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.8	-5.695	-0.0033	-2.5 to 2.5	Pass
					4.0	-5.982	-0.0034	-2.5 to 2.5	Pass
					4.2	-8.136	-0.0047	-2.5 to 2.5	Pass
				-30	4.0	-6.555	-0.0038	-2.5 to 2.5	Pass
				-20	4.0	-7.748	-0.0044	-2.5 to 2.5	Pass
				-10	4.0	-3.417	-0.0020	-2.5 to 2.5	Pass
				0	4.0	8.011	0.0046	-2.5 to 2.5	Pass
				10	4.0	7.359	0.0042	-2.5 to 2.5	Pass
				30	4.0	7.042	0.0040	-2.5 to 2.5	Pass
				40	4.0	-6.377	-0.0036	-2.5 to 2.5	Pass
				50	4.0	1.677	0.0010	-2.5 to 2.5	Pass
64QAM	1717.5	75	0	20	3.8	-6.085	-0.0035	-2.5 to 2.5	Pass
					4.0	7.611	0.0044	-2.5 to 2.5	Pass
					4.2	-3.527	-0.0021	-2.5 to 2.5	Pass
				-30	4.0	5.204	0.0030	-2.5 to 2.5	Pass
				-20	4.0	-3.656	-0.0021	-2.5 to 2.5	Pass
				-10	4.0	2.572	0.0015	-2.5 to 2.5	Pass
				0	4.0	8.903	0.0052	-2.5 to 2.5	Pass
				10	4.0	-6.034	-0.0035	-2.5 to 2.5	Pass
				30	4.0	1.171	0.0007	-2.5 to 2.5	Pass
				40	4.0	-3.535	-0.0021	-2.5 to 2.5	Pass
				50	4.0	-6.884	-0.0040	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.8	1.901	0.0011	-2.5 to 2.5	Pass
					4.0	-2.746	-0.0016	-2.5 to 2.5	Pass
					4.2	0.841	0.0005	-2.5 to 2.5	Pass
				-30	4.0	-8.064	-0.0047	-2.5 to 2.5	Pass
				-20	4.0	4.506	0.0026	-2.5 to 2.5	Pass
				-10	4.0	-8.512	-0.0049	-2.5 to 2.5	Pass
				0	4.0	-5.692	-0.0033	-2.5 to 2.5	Pass
				10	4.0	-4.853	-0.0028	-2.5 to 2.5	Pass
				30	4.0	-7.458	-0.0043	-2.5 to 2.5	Pass
				40	4.0	0.646	0.0004	-2.5 to 2.5	Pass
				50	4.0	4.679	0.0027	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.8	7.676	0.0044	-2.5 to 2.5	Pass
					4.0	9.729	0.0056	-2.5 to 2.5	Pass
					4.2	0.193	0.0001	-2.5 to 2.5	Pass
				-30	4.0	2.735	0.0016	-2.5 to 2.5	Pass
				-20	4.0	-1.662	-0.0010	-2.5 to 2.5	Pass
				-10	4.0	-0.698	-0.0004	-2.5 to 2.5	Pass
				0	4.0	4.484	0.0026	-2.5 to 2.5	Pass
				10	4.0	5.082	0.0029	-2.5 to 2.5	Pass
				30	4.0	3.595	0.0021	-2.5 to 2.5	Pass
				40	4.0	-0.572	-0.0003	-2.5 to 2.5	Pass
				50	4.0	-6.002	-0.0034	-2.5 to 2.5	Pass

1.6 B4_20MHz

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.8	3.129	0.0018	-2.5 to 2.5	Pass
					4.0	5.032	0.0029	-2.5 to 2.5	Pass
					4.2	6.011	0.0035	-2.5 to 2.5	Pass
				-30	4.0	3.421	0.0020	-2.5 to 2.5	Pass
				-20	4.0	4.681	0.0027	-2.5 to 2.5	Pass
				-10	4.0	1.423	0.0008	-2.5 to 2.5	Pass
				0	4.0	5.817	0.0034	-2.5 to 2.5	Pass
				10	4.0	-1.417	-0.0008	-2.5 to 2.5	Pass
				30	4.0	-2.431	-0.0014	-2.5 to 2.5	Pass
				40	4.0	-1.360	-0.0008	-2.5 to 2.5	Pass
				50	4.0	2.857	0.0017	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.8	-4.627	-0.0027	-2.5 to 2.5	Pass
					4.0	-8.149	-0.0047	-2.5 to 2.5	Pass
					4.2	1.768	0.0010	-2.5 to 2.5	Pass
				-30	4.0	-3.441	-0.0020	-2.5 to 2.5	Pass
				-20	4.0	6.367	0.0037	-2.5 to 2.5	Pass
				-10	4.0	-1.476	-0.0009	-2.5 to 2.5	Pass
				0	4.0	-6.114	-0.0035	-2.5 to 2.5	Pass
				10	4.0	0.848	0.0005	-2.5 to 2.5	Pass
				30	4.0	-7.328	-0.0042	-2.5 to 2.5	Pass
				40	4.0	0.356	0.0002	-2.5 to 2.5	Pass
				50	4.0	4.459	0.0026	-2.5 to 2.5	Pass
	1745	100	0	20	3.8	-1.411	-0.0008	-2.5 to 2.5	Pass
					4.0	-6.189	-0.0035	-2.5 to 2.5	Pass
					4.2	-5.749	-0.0033	-2.5 to 2.5	Pass
				-30	4.0	-2.770	-0.0016	-2.5 to 2.5	Pass
				-20	4.0	-7.150	-0.0041	-2.5 to 2.5	Pass
				-10	4.0	-7.161	-0.0041	-2.5 to 2.5	Pass
				0	4.0	-2.310	-0.0013	-2.5 to 2.5	Pass
				10	4.0	6.042	0.0035	-2.5 to 2.5	Pass
				30	4.0	5.355	0.0031	-2.5 to 2.5	Pass
				40	4.0	-4.771	-0.0027	-2.5 to 2.5	Pass
				50	4.0	-4.649	-0.0027	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.8	1.943	0.0011	-2.5 to 2.5	Pass
					4.0	7.380	0.0043	-2.5 to 2.5	Pass
					4.2	1.379	0.0008	-2.5 to 2.5	Pass
				-30	4.0	6.071	0.0035	-2.5 to 2.5	Pass
				-20	4.0	4.572	0.0027	-2.5 to 2.5	Pass
				-10	4.0	5.066	0.0029	-2.5 to 2.5	Pass
				0	4.0	-5.540	-0.0032	-2.5 to 2.5	Pass
				10	4.0	4.361	0.0025	-2.5 to 2.5	Pass
				30	4.0	-5.123	-0.0030	-2.5 to 2.5	Pass
				40	4.0	-3.134	-0.0018	-2.5 to 2.5	Pass
				50	4.0	-6.877	-0.0040	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.8	-1.710	-0.0010	-2.5 to 2.5	Pass
					4.0	-4.650	-0.0027	-2.5 to 2.5	Pass
					4.2	-3.294	-0.0019	-2.5 to 2.5	Pass
				-30	4.0	2.844	0.0016	-2.5 to 2.5	Pass
				-20	4.0	1.349	0.0008	-2.5 to 2.5	Pass
				-10	4.0	8.814	0.0051	-2.5 to 2.5	Pass
				0	4.0	0.389	0.0002	-2.5 to 2.5	Pass



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				10	4.0	5.403	0.0031	-2.5 to 2.5	Pass
				30	4.0	1.707	0.0010	-2.5 to 2.5	Pass
				40	4.0	2.054	0.0012	-2.5 to 2.5	Pass
				50	4.0	-7.044	-0.0041	-2.5 to 2.5	Pass
	1745	100	0	20	3.8	2.681	0.0015	-2.5 to 2.5	Pass
					4.0	-0.601	-0.0003	-2.5 to 2.5	Pass
					4.2	-1.125	-0.0006	-2.5 to 2.5	Pass
				-30	4.0	2.305	0.0013	-2.5 to 2.5	Pass
				-20	4.0	3.331	0.0019	-2.5 to 2.5	Pass
				-10	4.0	5.287	0.0030	-2.5 to 2.5	Pass
				0	4.0	4.301	0.0025	-2.5 to 2.5	Pass
				10	4.0	-5.701	-0.0033	-2.5 to 2.5	Pass
				30	4.0	-4.010	-0.0023	-2.5 to 2.5	Pass
				40	4.0	6.339	0.0036	-2.5 to 2.5	Pass
				50	4.0	-2.566	-0.0015	-2.5 to 2.5	Pass
64QAM	1720	100	0	20	3.8	2.168	0.0013	-2.5 to 2.5	Pass
					4.0	3.890	0.0023	-2.5 to 2.5	Pass
					4.2	3.606	0.0021	-2.5 to 2.5	Pass
				-30	4.0	0.060	0.0000	-2.5 to 2.5	Pass
				-20	4.0	5.968	0.0035	-2.5 to 2.5	Pass
				-10	4.0	-2.857	-0.0017	-2.5 to 2.5	Pass
				0	4.0	-3.303	-0.0019	-2.5 to 2.5	Pass
				10	4.0	0.519	0.0003	-2.5 to 2.5	Pass
				30	4.0	-4.405	-0.0026	-2.5 to 2.5	Pass
				40	4.0	-2.787	-0.0016	-2.5 to 2.5	Pass
				50	4.0	1.178	0.0007	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.8	-4.237	-0.0024	-2.5 to 2.5	Pass
					4.0	-5.348	-0.0031	-2.5 to 2.5	Pass
					4.2	7.791	0.0045	-2.5 to 2.5	Pass
				-30	4.0	6.684	0.0039	-2.5 to 2.5	Pass
				-20	4.0	-2.873	-0.0017	-2.5 to 2.5	Pass
				-10	4.0	1.363	0.0008	-2.5 to 2.5	Pass
				0	4.0	-7.182	-0.0041	-2.5 to 2.5	Pass
				10	4.0	-7.618	-0.0044	-2.5 to 2.5	Pass
				30	4.0	5.187	0.0030	-2.5 to 2.5	Pass
				40	4.0	5.912	0.0034	-2.5 to 2.5	Pass
				50	4.0	0.722	0.0004	-2.5 to 2.5	Pass
	1745	100	0	20	3.8	-1.525	-0.0009	-2.5 to 2.5	Pass
					4.0	3.044	0.0017	-2.5 to 2.5	Pass
					4.2	-7.045	-0.0040	-2.5 to 2.5	Pass
				-30	4.0	4.331	0.0025	-2.5 to 2.5	Pass
				-20	4.0	0.016	0.0000	-2.5 to 2.5	Pass
				-10	4.0	-1.984	-0.0011	-2.5 to 2.5	Pass
				0	4.0	0.381	0.0002	-2.5 to 2.5	Pass
				10	4.0	5.216	0.0030	-2.5 to 2.5	Pass
				30	4.0	9.038	0.0052	-2.5 to 2.5	Pass
				40	4.0	2.085	0.0012	-2.5 to 2.5	Pass
				50	4.0	-7.030	-0.0040	-2.5 to 2.5	Pass

2. 99% & 26dB Bandwidth

2.1 Band4_OBW

2.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.106	/	Pass
		1732.5	6	0	1.107	/	Pass
		1754.3	6	0	1.123	/	Pass
	16QAM	1710.7	6	0	1.106	/	Pass
		1732.5	6	0	1.102	/	Pass
		1754.3	6	0	1.105	/	Pass
	64QAM	1710.7	6	0	1.101	/	Pass
		1732.5	6	0	1.115	/	Pass
		1754.3	6	0	1.101	/	Pass
3	QPSK	1711.5	15	0	2.736	/	Pass
		1732.5	15	0	2.745	/	Pass
		1753.5	15	0	2.748	/	Pass
	16QAM	1711.5	15	0	2.741	/	Pass
		1732.5	15	0	2.728	/	Pass
		1753.5	15	0	2.736	/	Pass
	64QAM	1711.5	15	0	2.750	/	Pass
		1732.5	15	0	2.732	/	Pass
		1753.5	15	0	2.730	/	Pass
5	QPSK	1712.5	25	0	4.562	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.547	/	Pass
	16QAM	1712.5	25	0	4.548	/	Pass
		1732.5	25	0	4.566	/	Pass
		1752.5	25	0	4.566	/	Pass
	64QAM	1712.5	25	0	4.541	/	Pass
		1732.5	25	0	4.558	/	Pass
		1752.5	25	0	4.548	/	Pass
10	QPSK	1715	50	0	9.037	/	Pass
		1732.5	50	0	9.023	/	Pass
		1750	50	0	9.047	/	Pass
	16QAM	1715	50	0	9.053	/	Pass
		1732.5	50	0	9.005	/	Pass
		1750	50	0	9.046	/	Pass
	64QAM	1715	50	0	9.055	/	Pass
		1732.5	50	0	9.037	/	Pass
		1750	50	0	9.065	/	Pass
15	QPSK	1717.5	75	0	13.597	/	Pass
		1732.5	75	0	13.550	/	Pass
		1747.5	75	0	13.585	/	Pass
	16QAM	1717.5	75	0	13.604	/	Pass
		1732.5	75	0	13.559	/	Pass
		1747.5	75	0	13.637	/	Pass
	64QAM	1717.5	75	0	13.570	/	Pass
		1732.5	75	0	13.544	/	Pass
		1747.5	75	0	13.611	/	Pass
20	QPSK	1720	100	0	18.047	/	Pass
		1732.5	100	0	18.051	/	Pass
		1745	100	0	18.176	/	Pass
	16QAM	1720	100	0	18.145	/	Pass



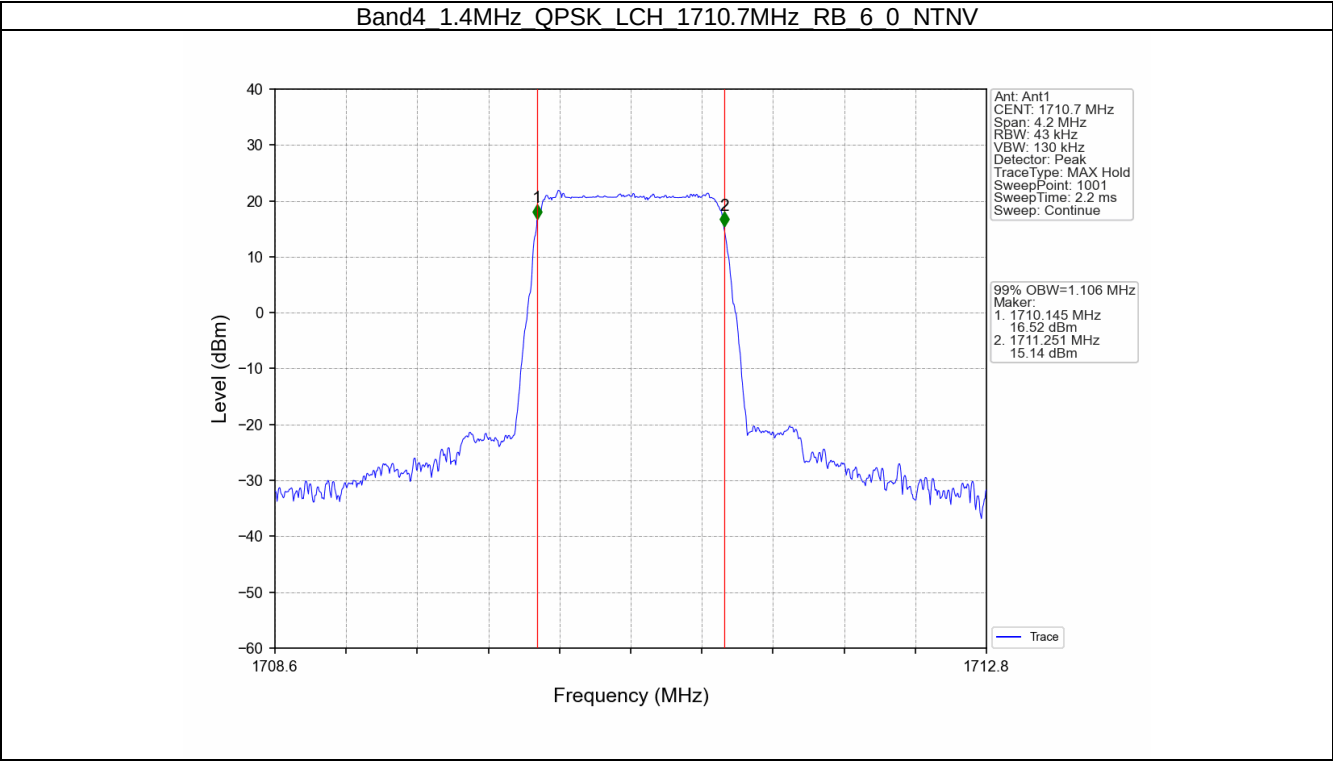
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		1732.5	100	0	18.018	/	Pass
		1745	100	0	18.138	/	Pass
	64QAM	1720	100	0	18.075	/	Pass
		1732.5	100	0	18.074	/	Pass
		1745	100	0	18.164	/	Pass

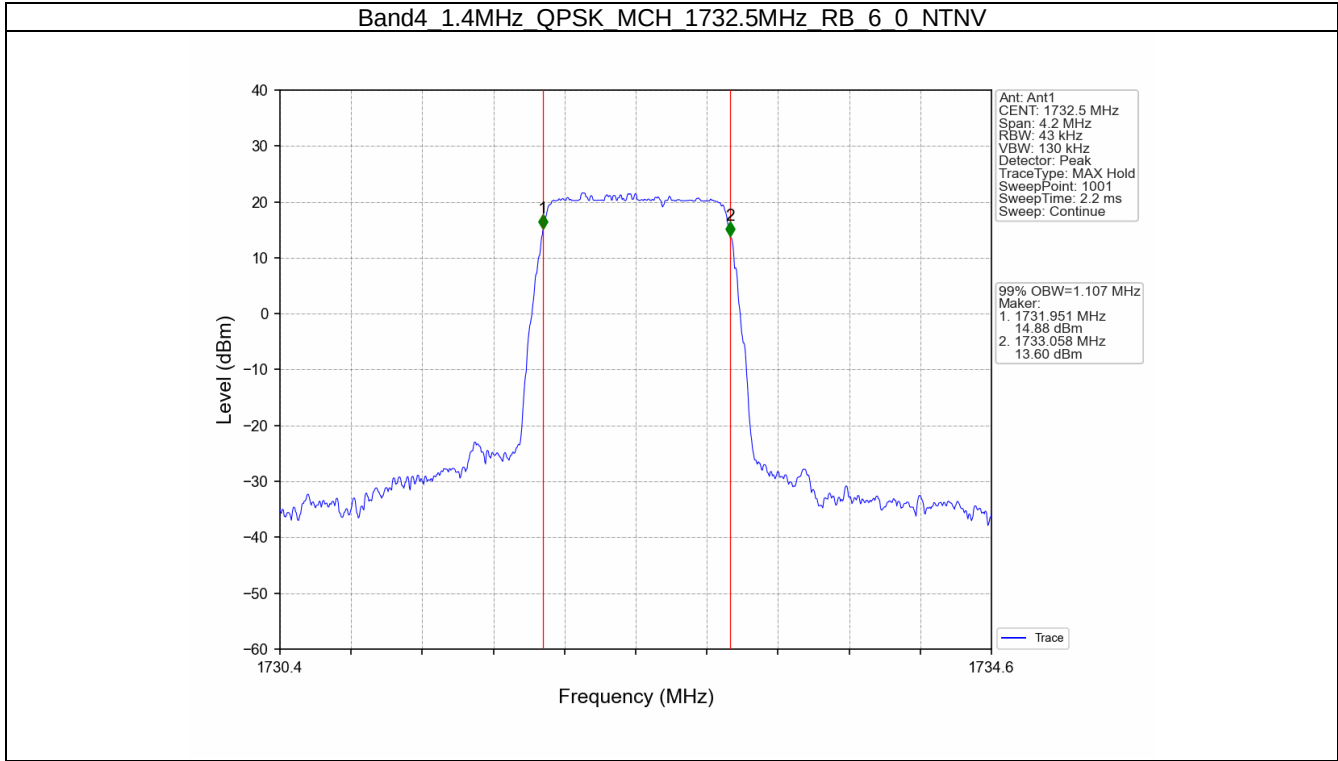
2.1.2 Test Graph



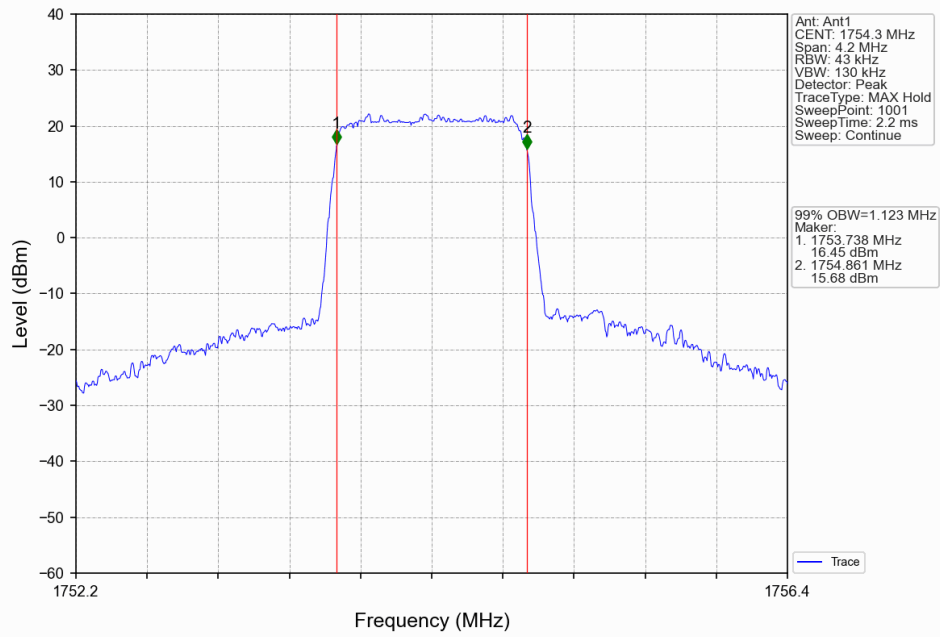


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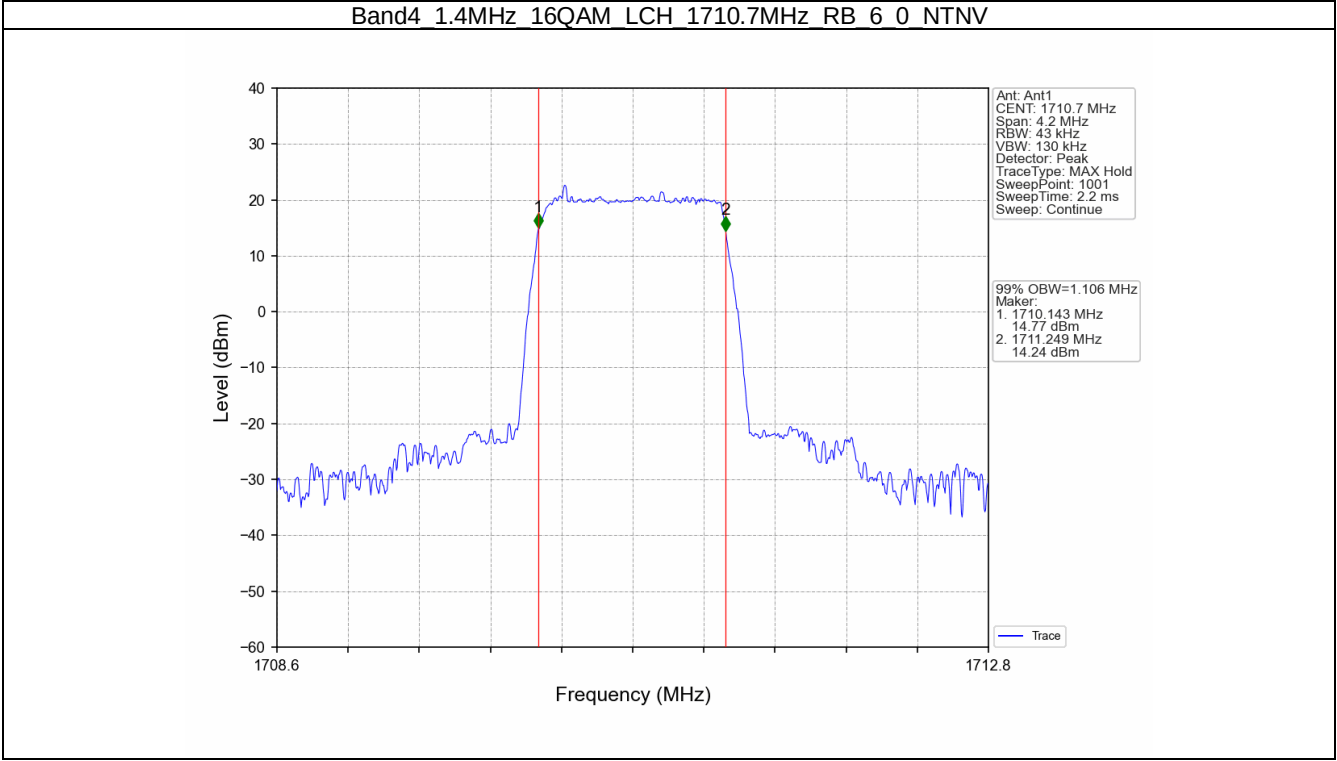
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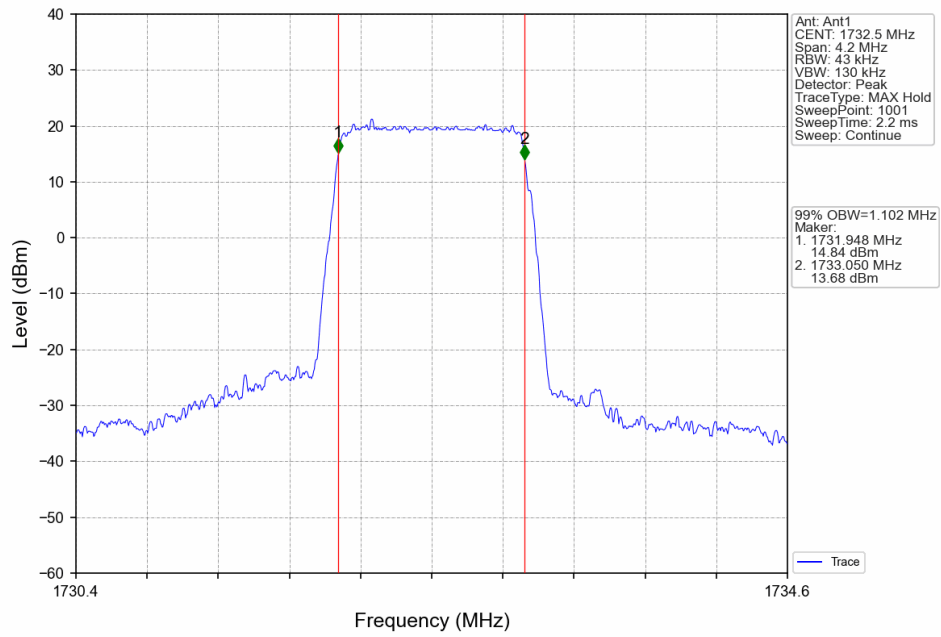


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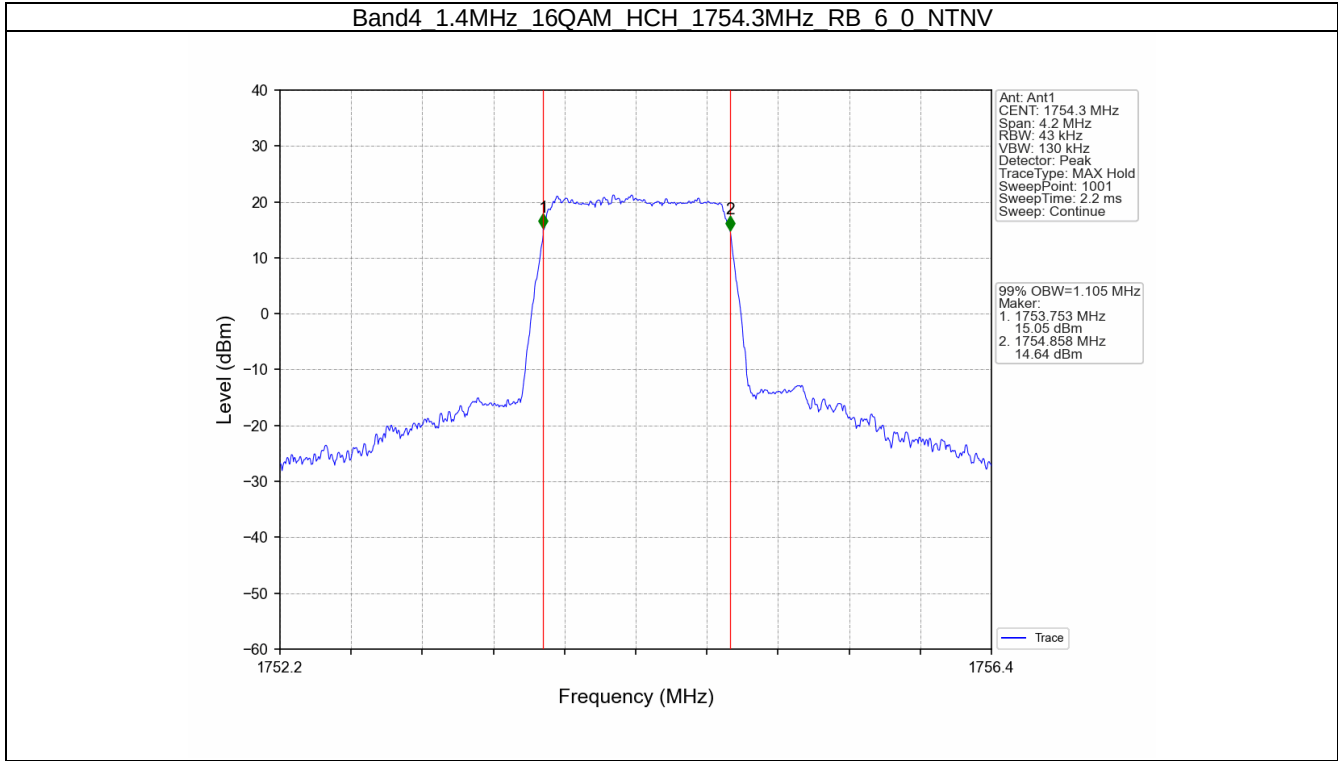
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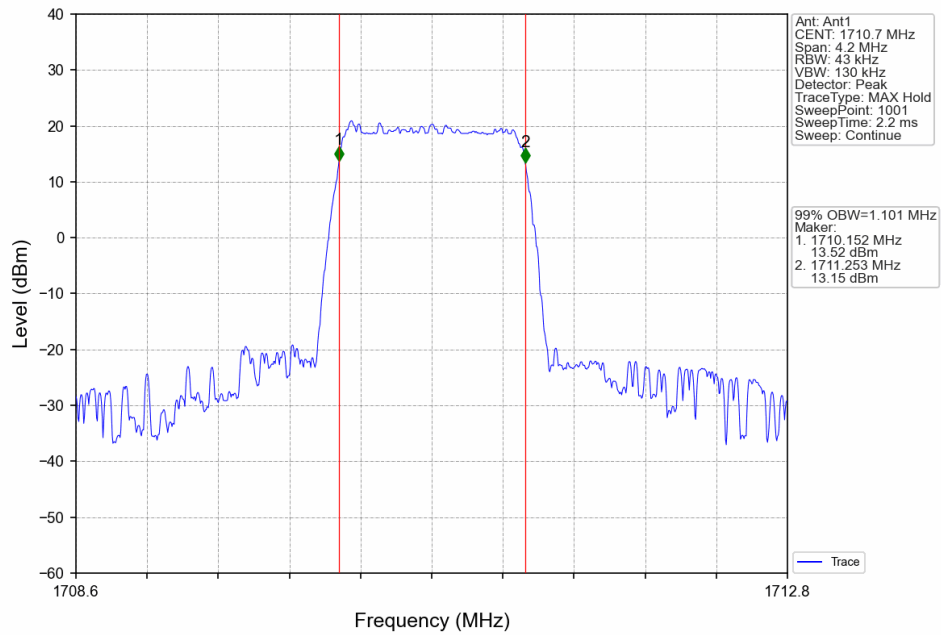


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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



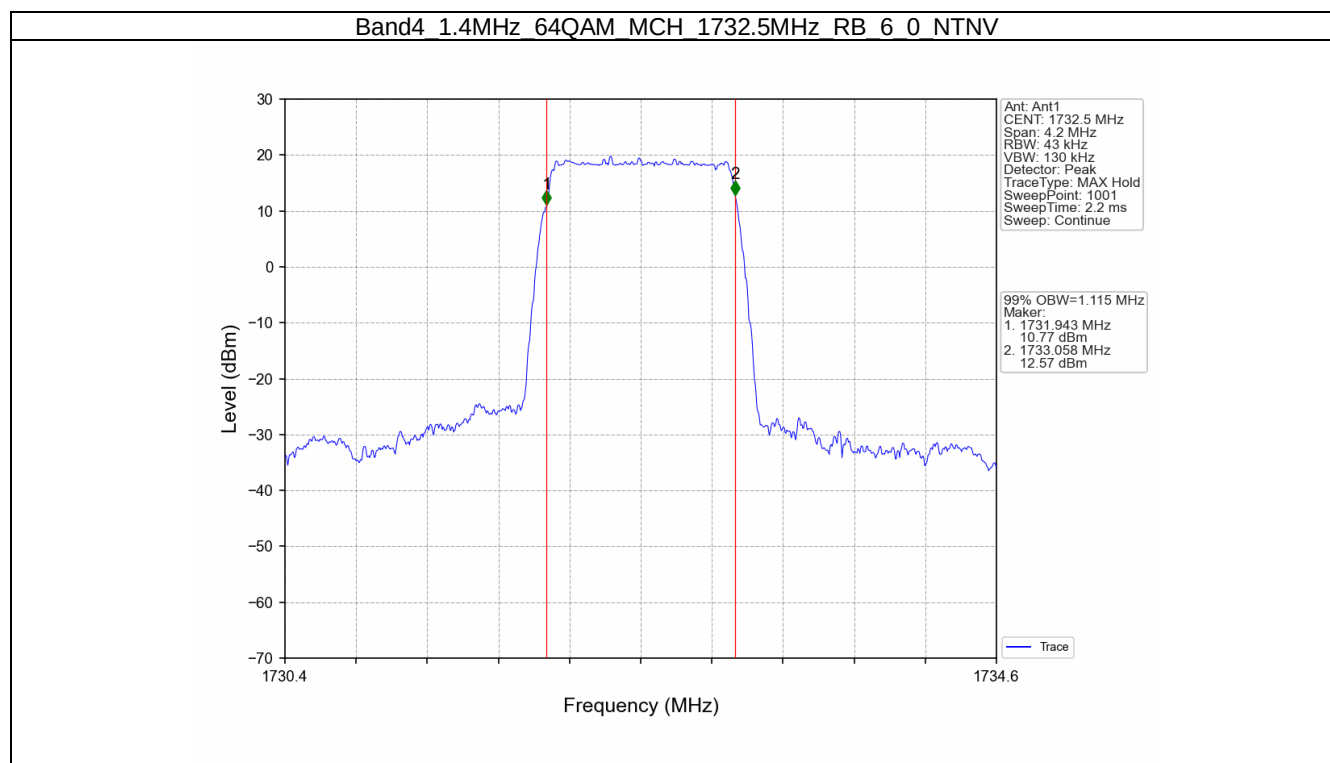


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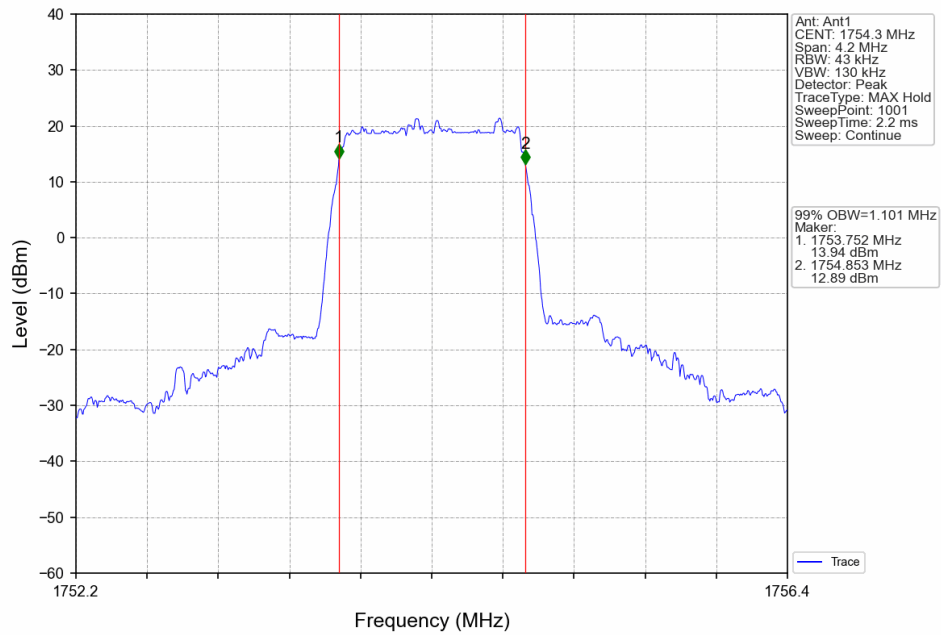
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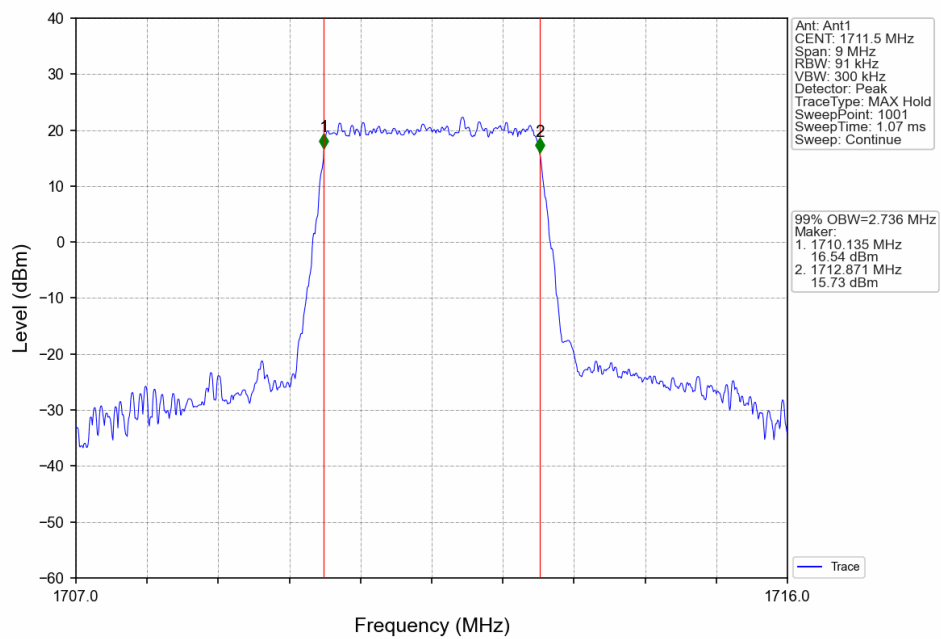
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Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

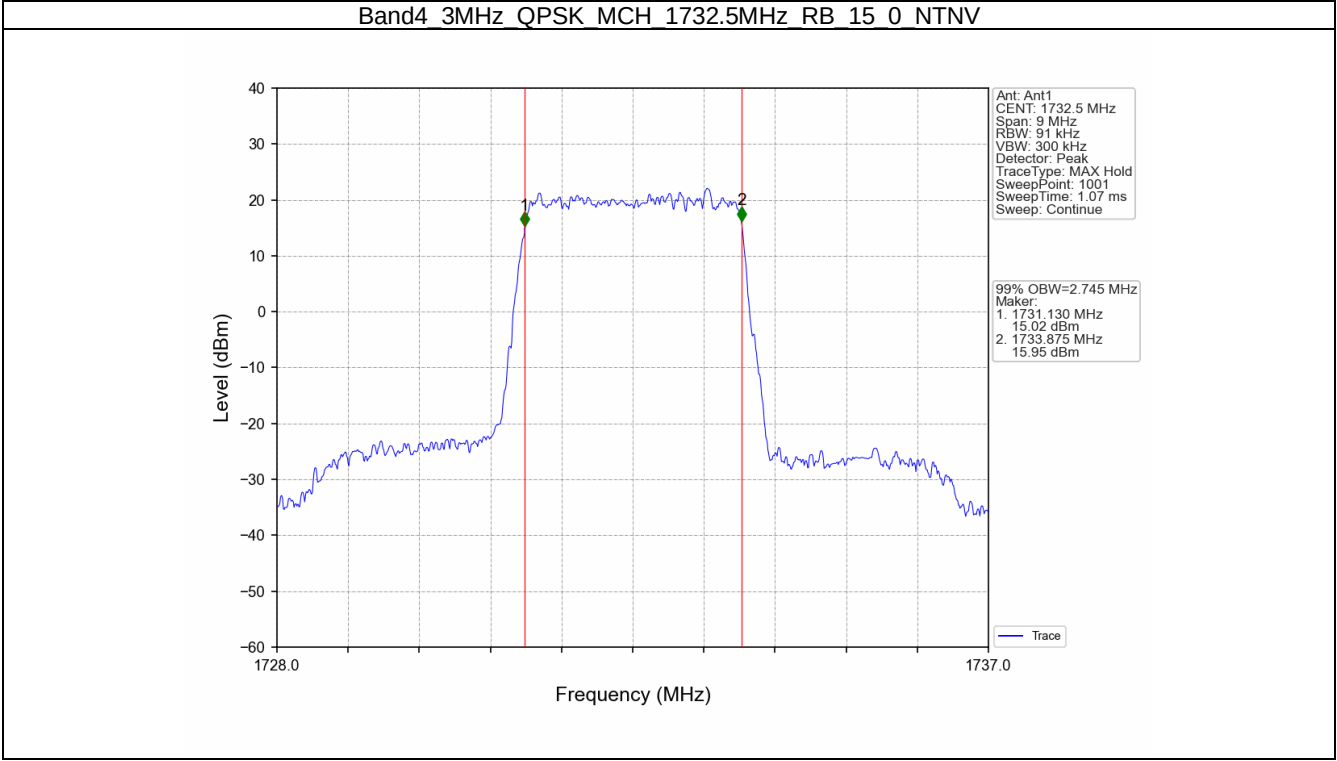




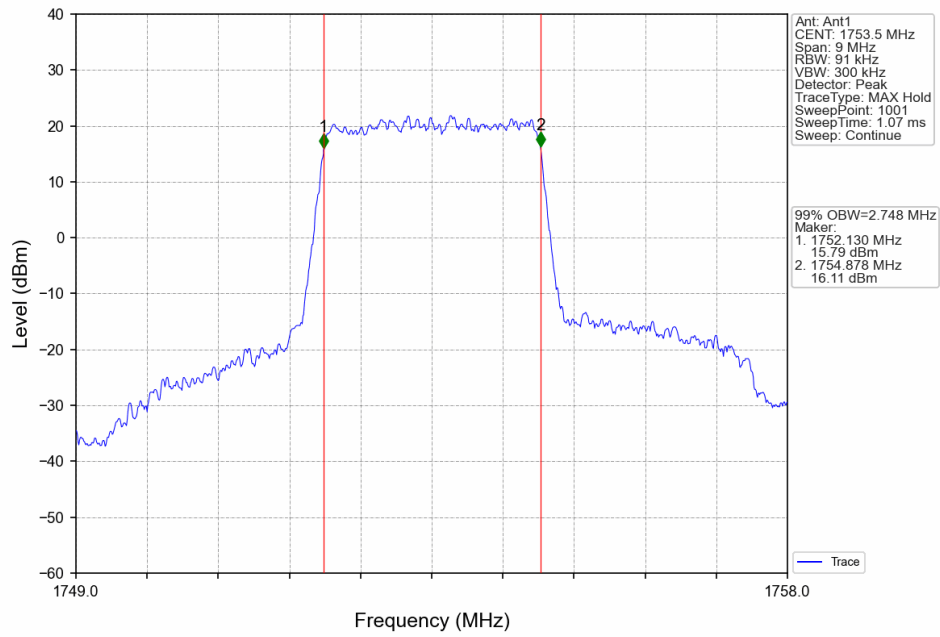
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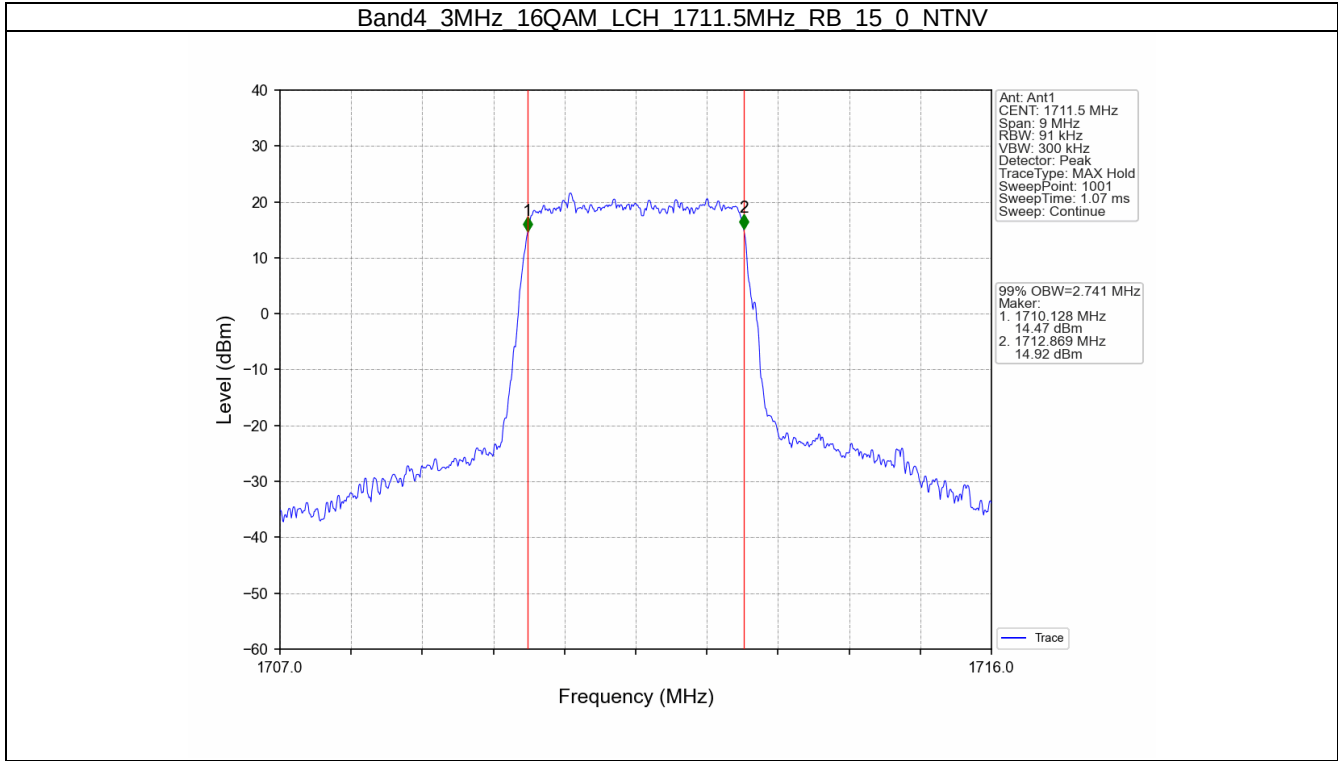
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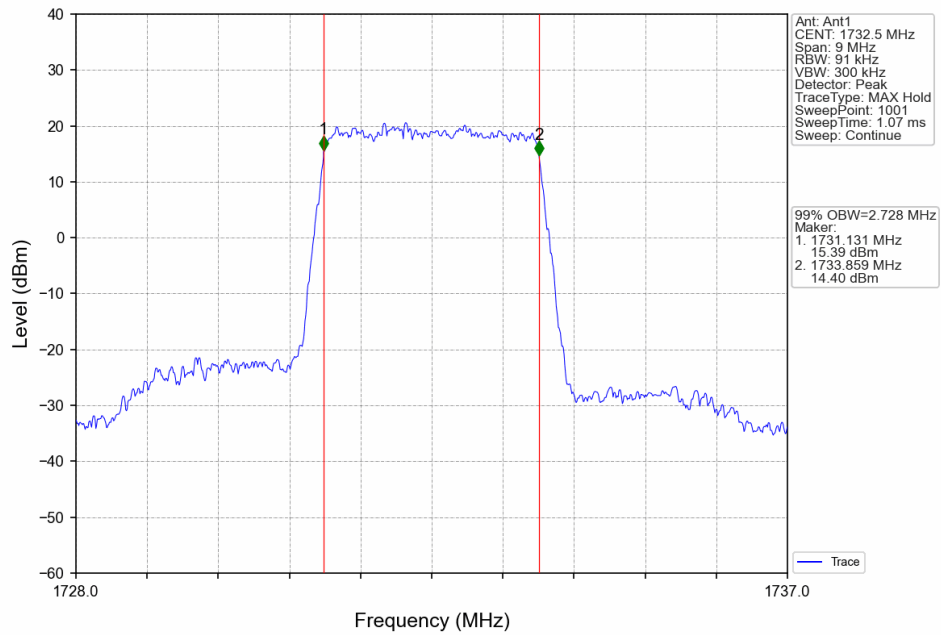


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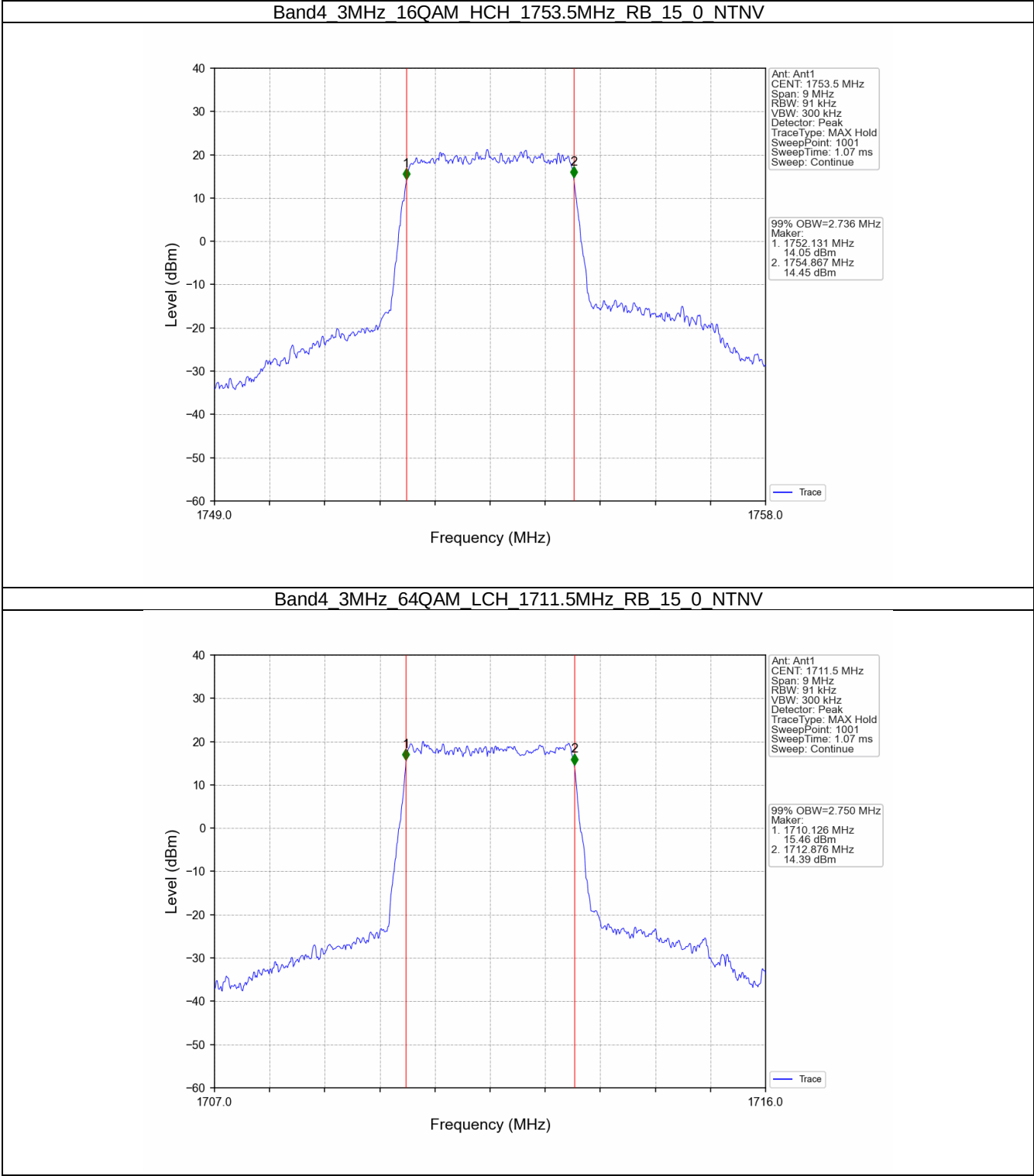
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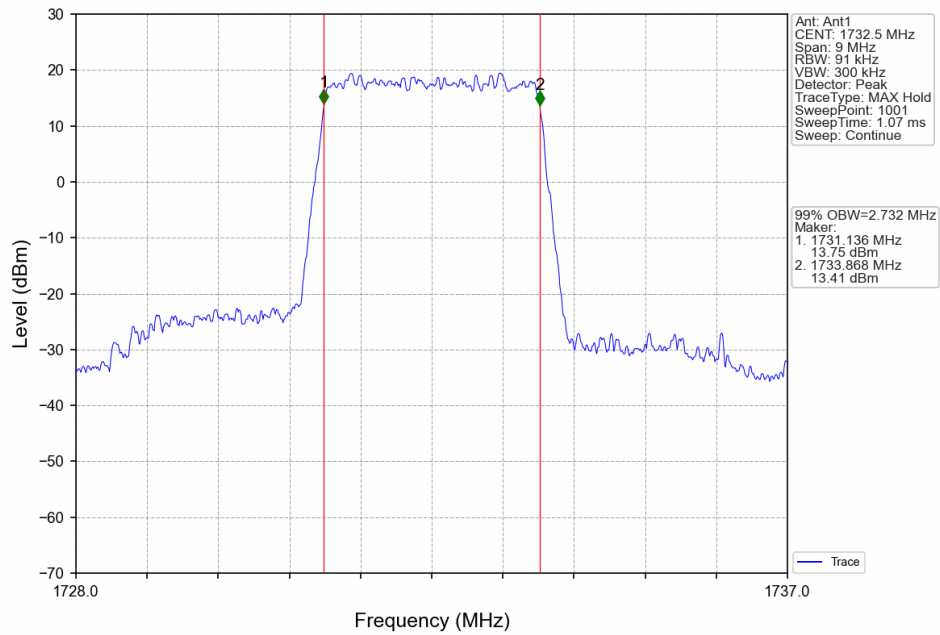


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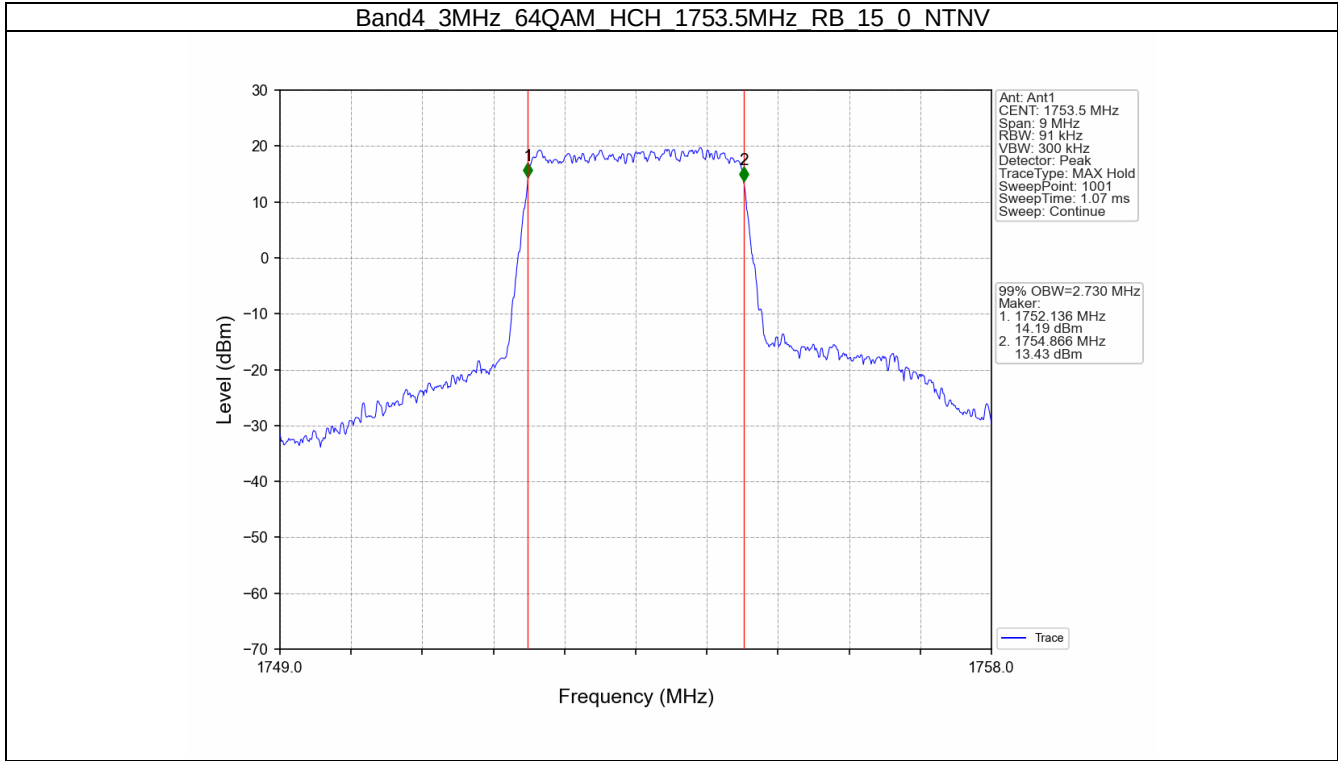
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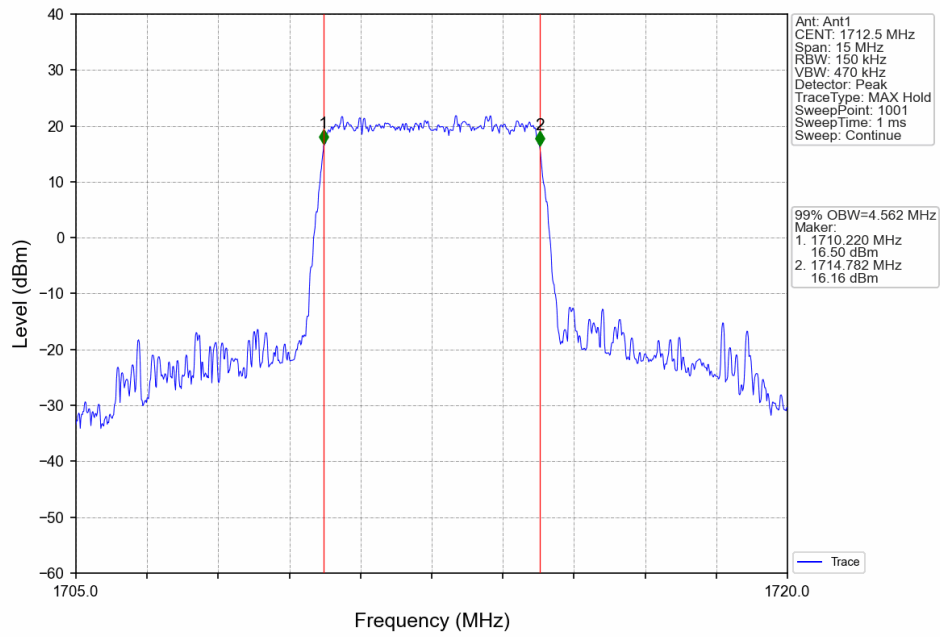


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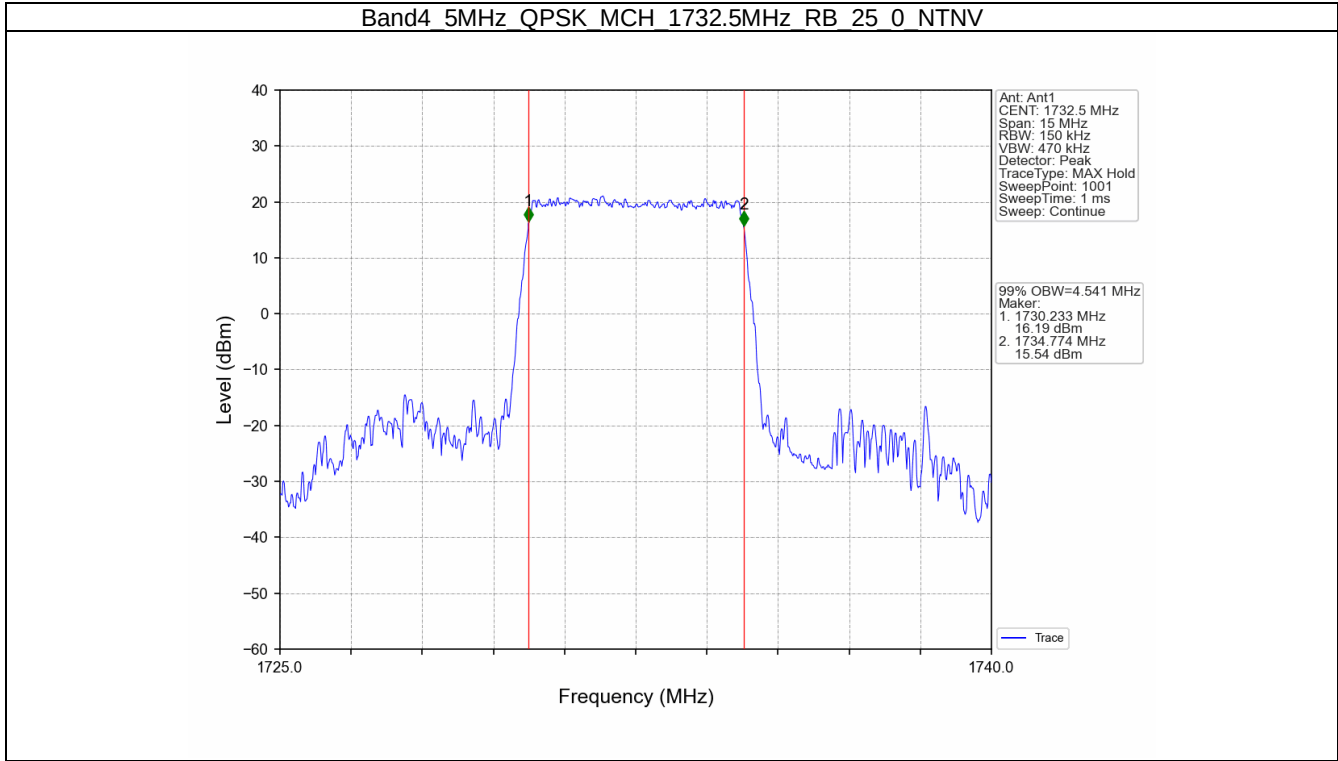
Band4 5MHz QPSK LCH 1712.5MHz RB 25_0 NTN



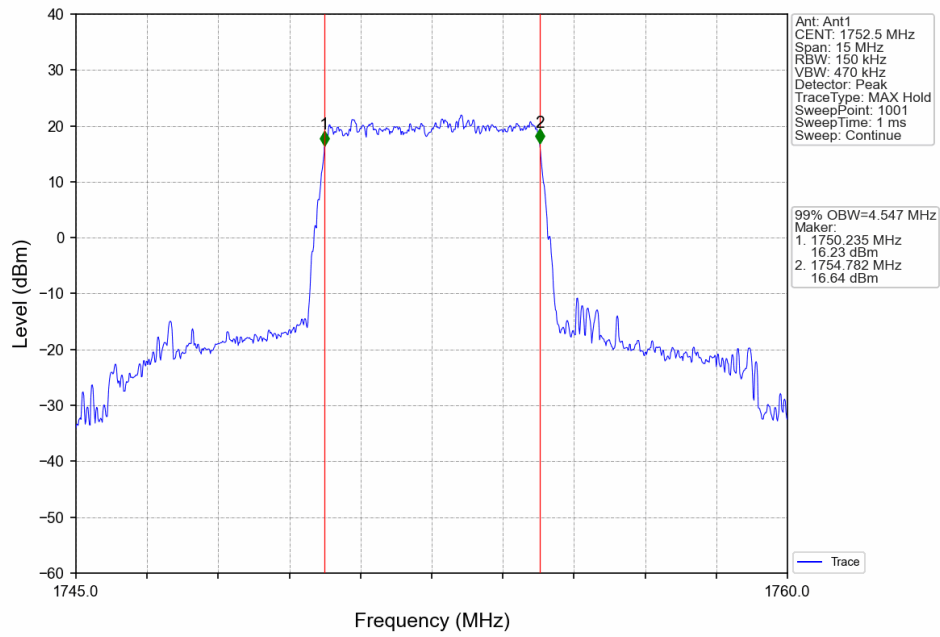


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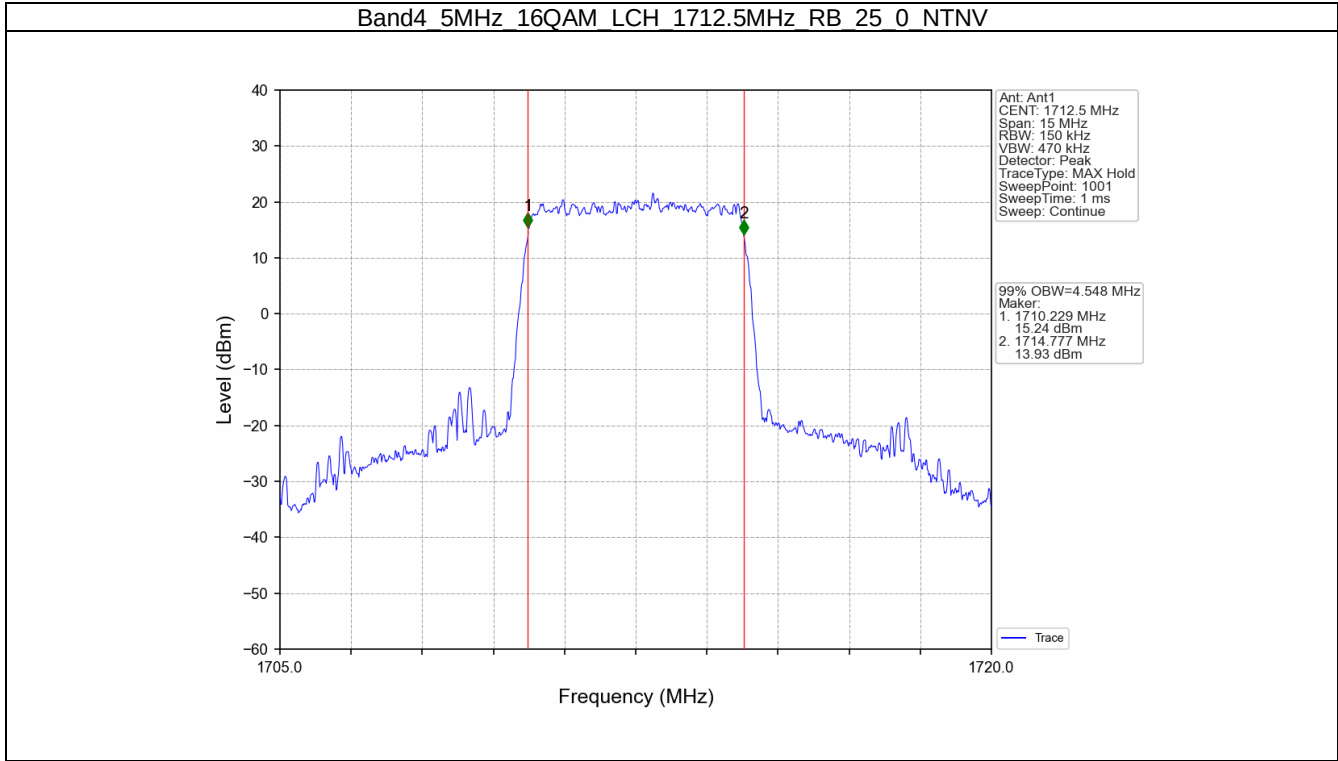
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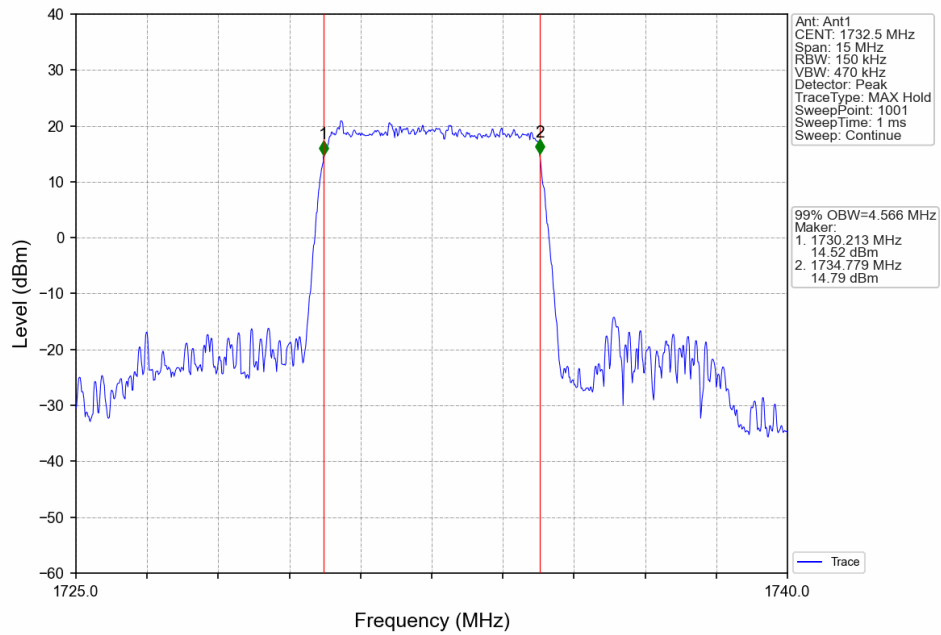


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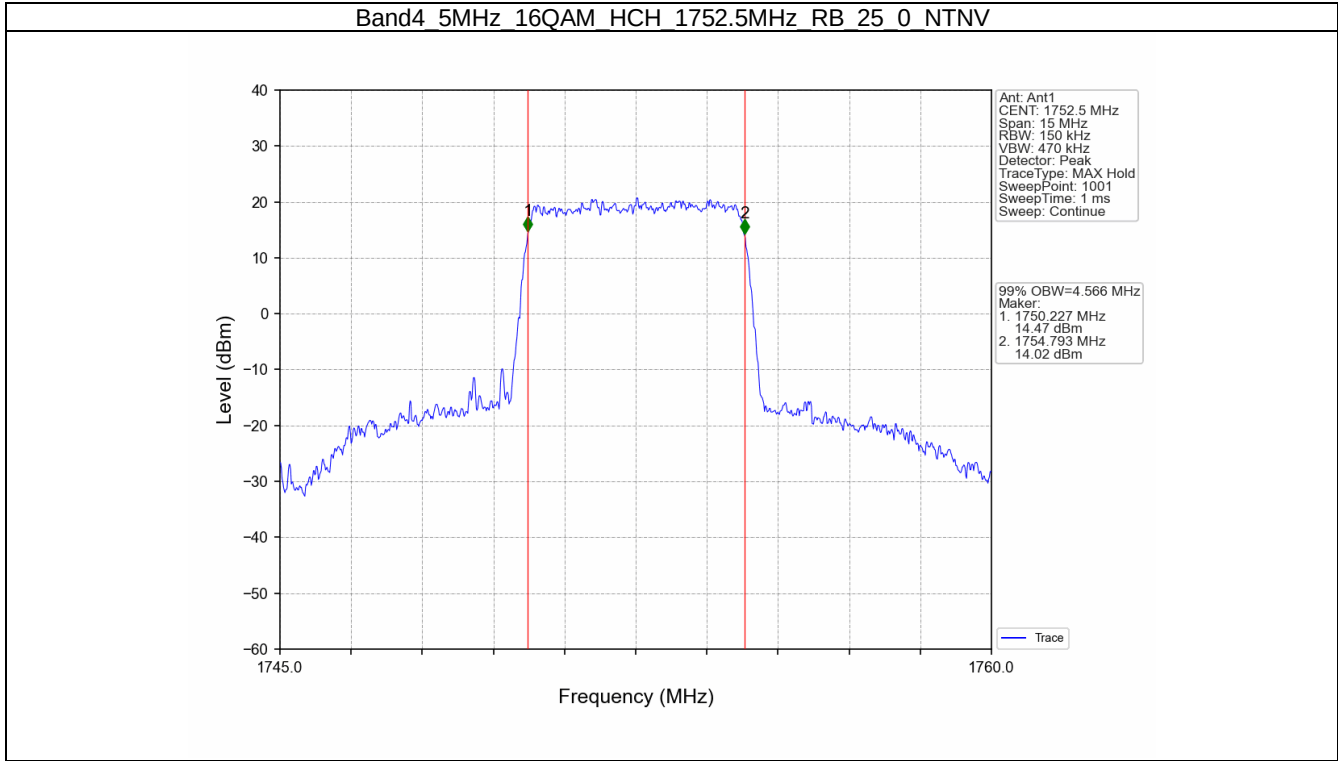
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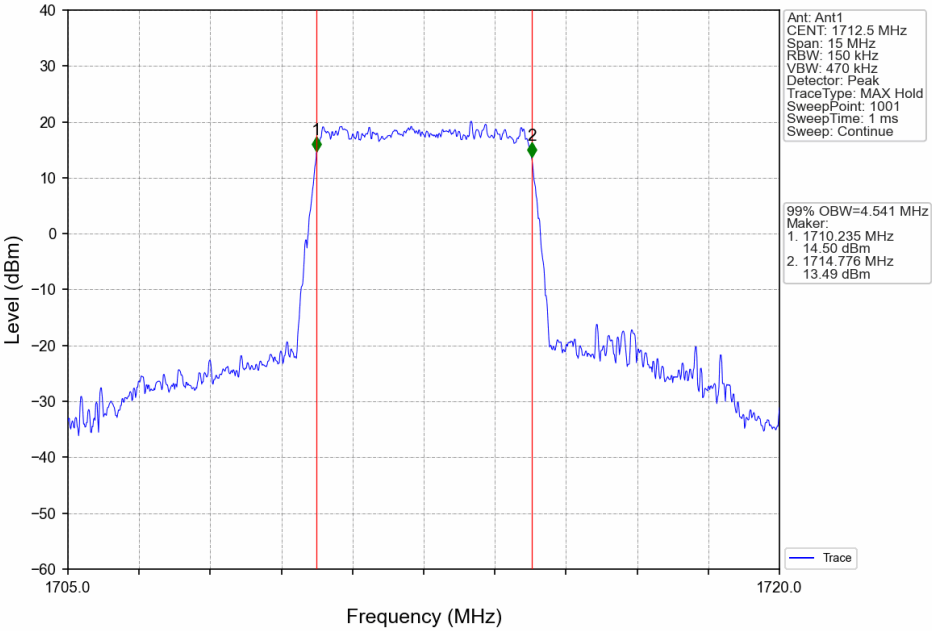


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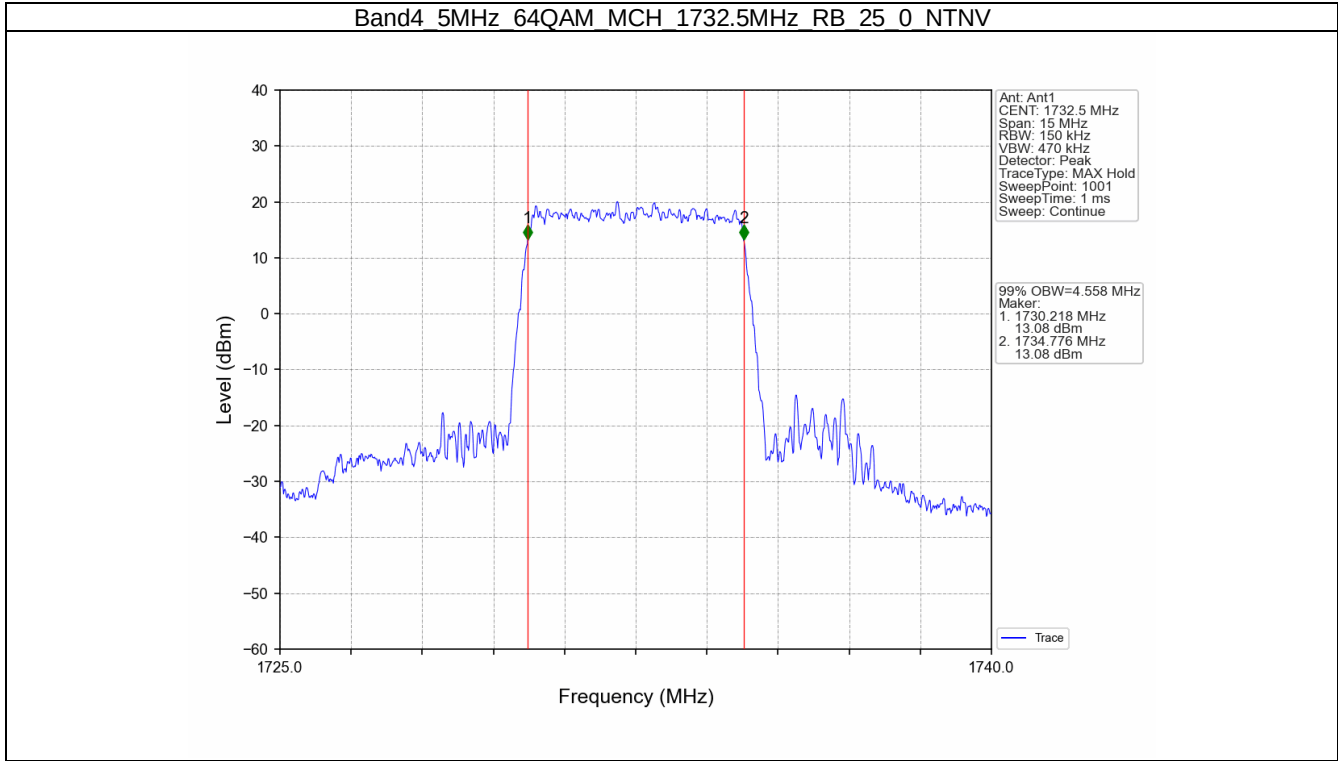
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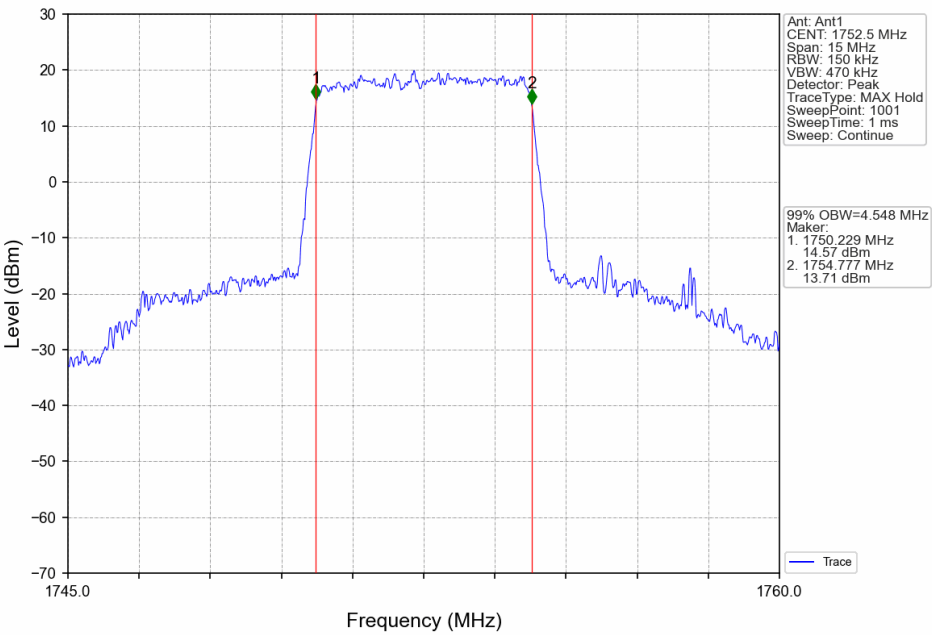


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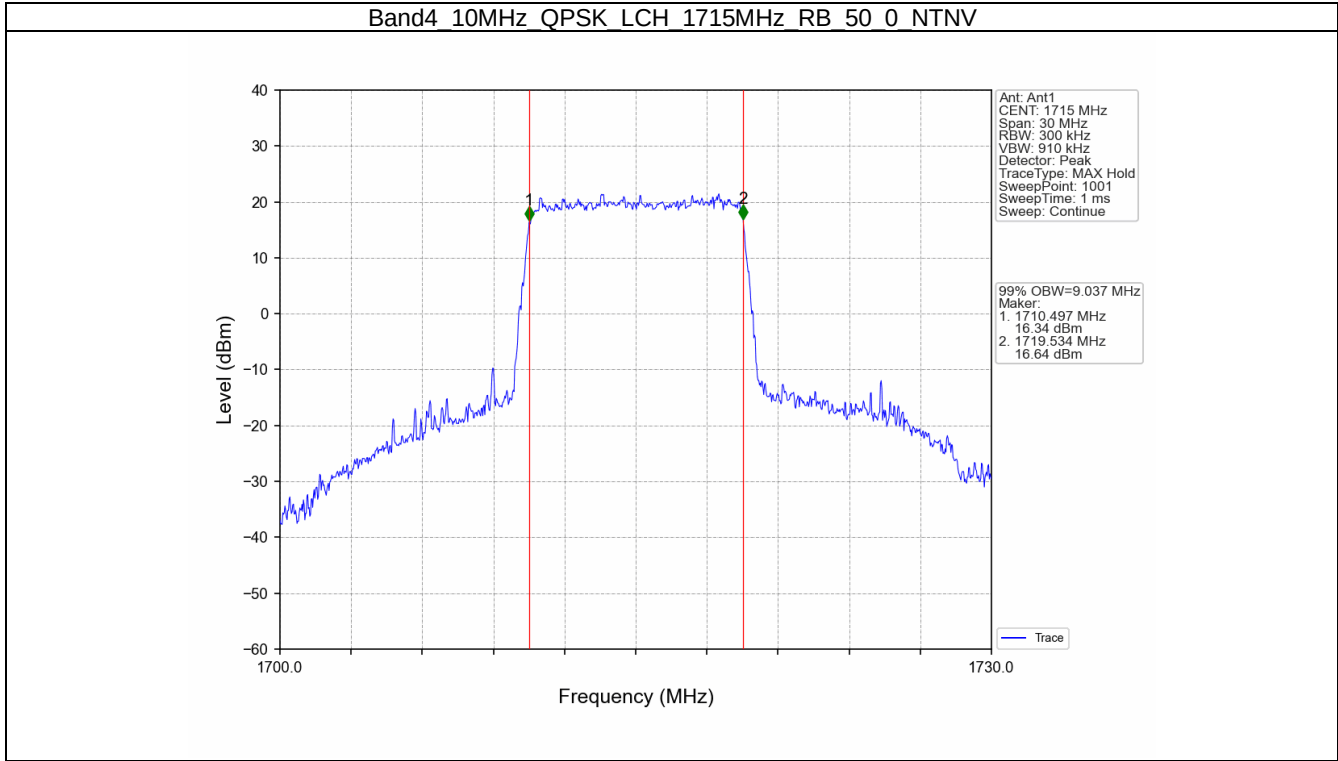
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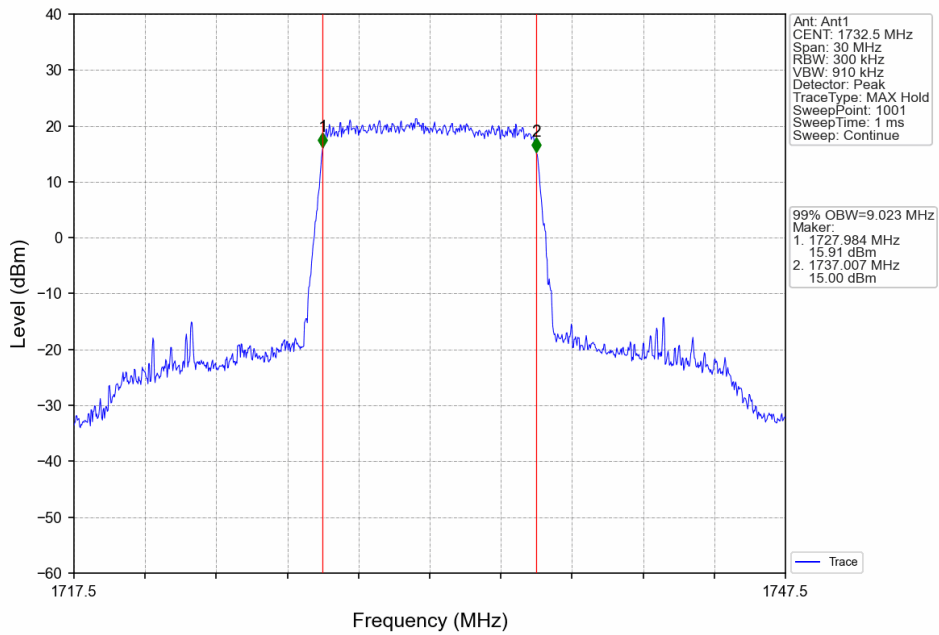


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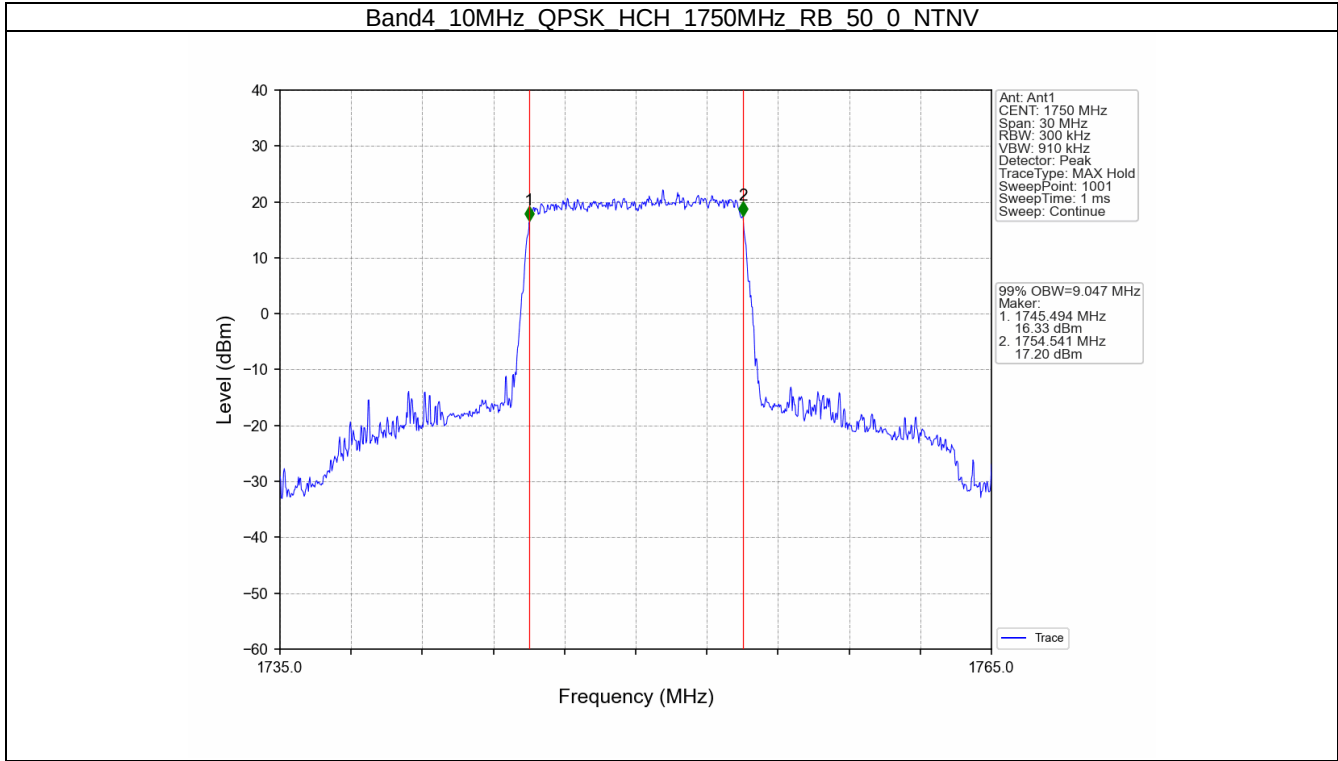
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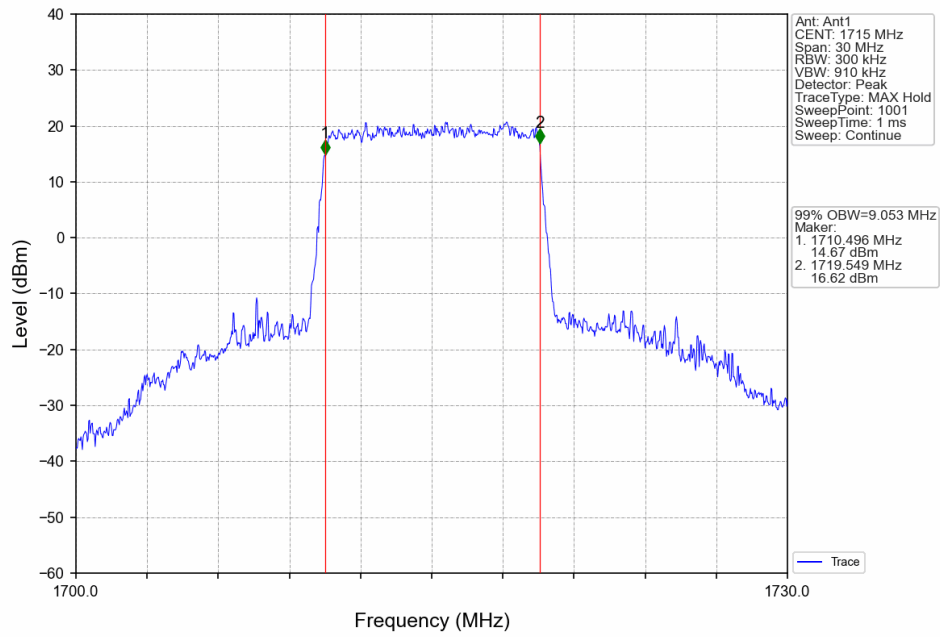


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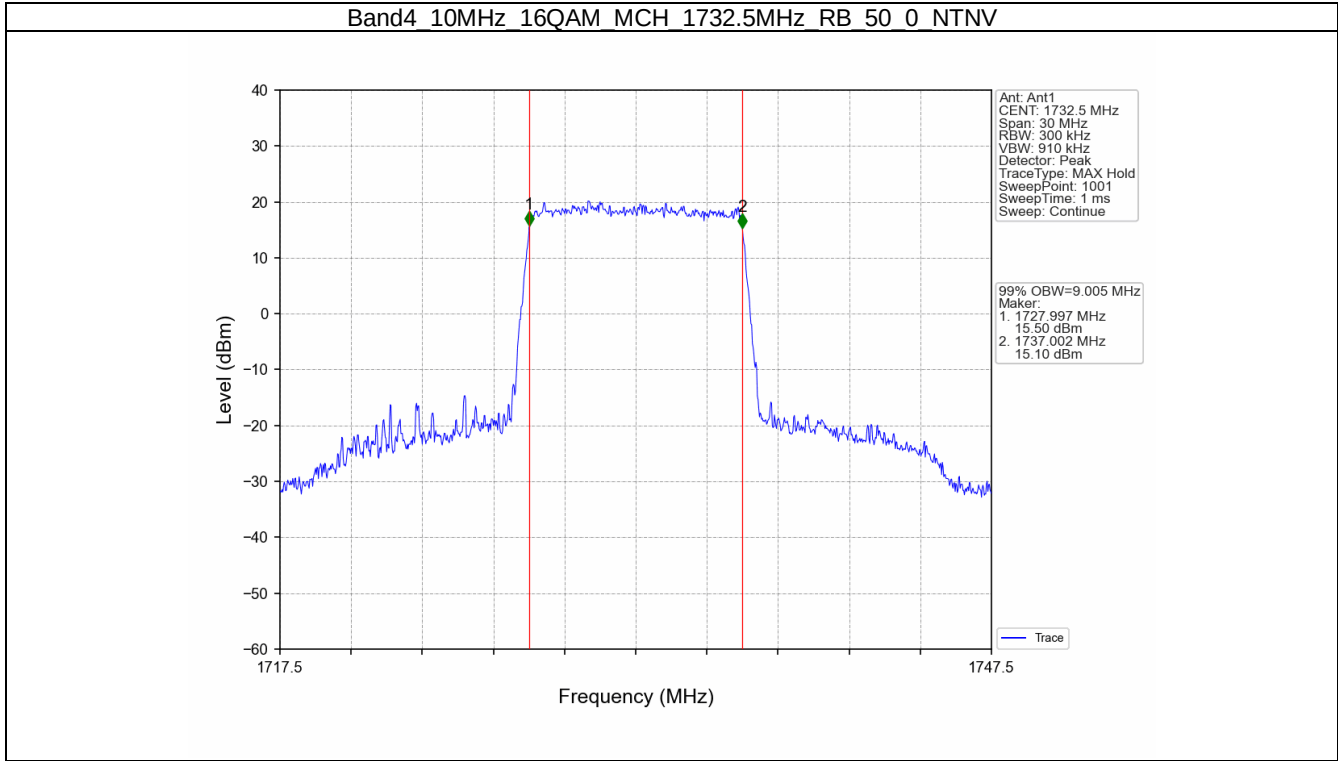
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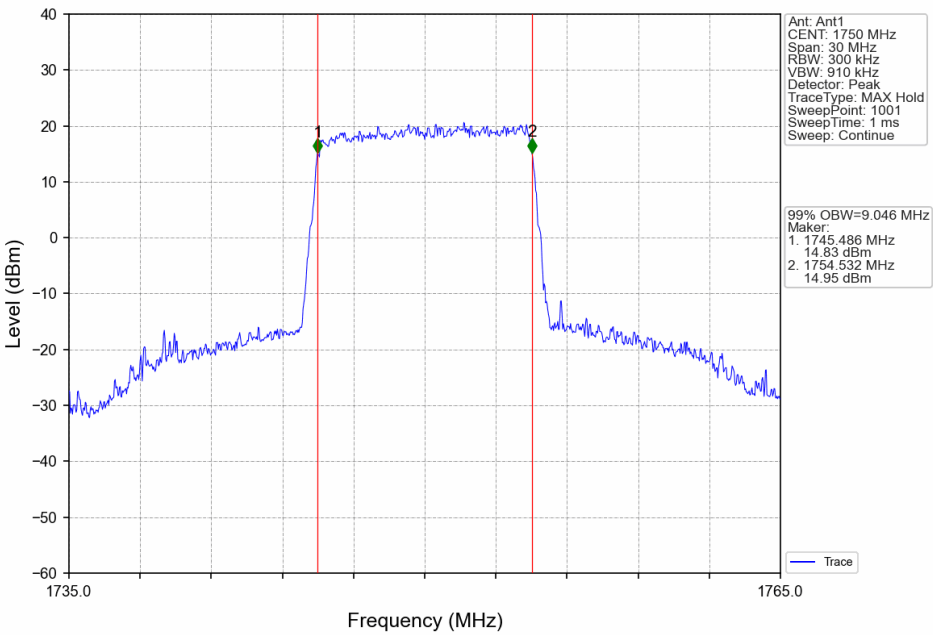


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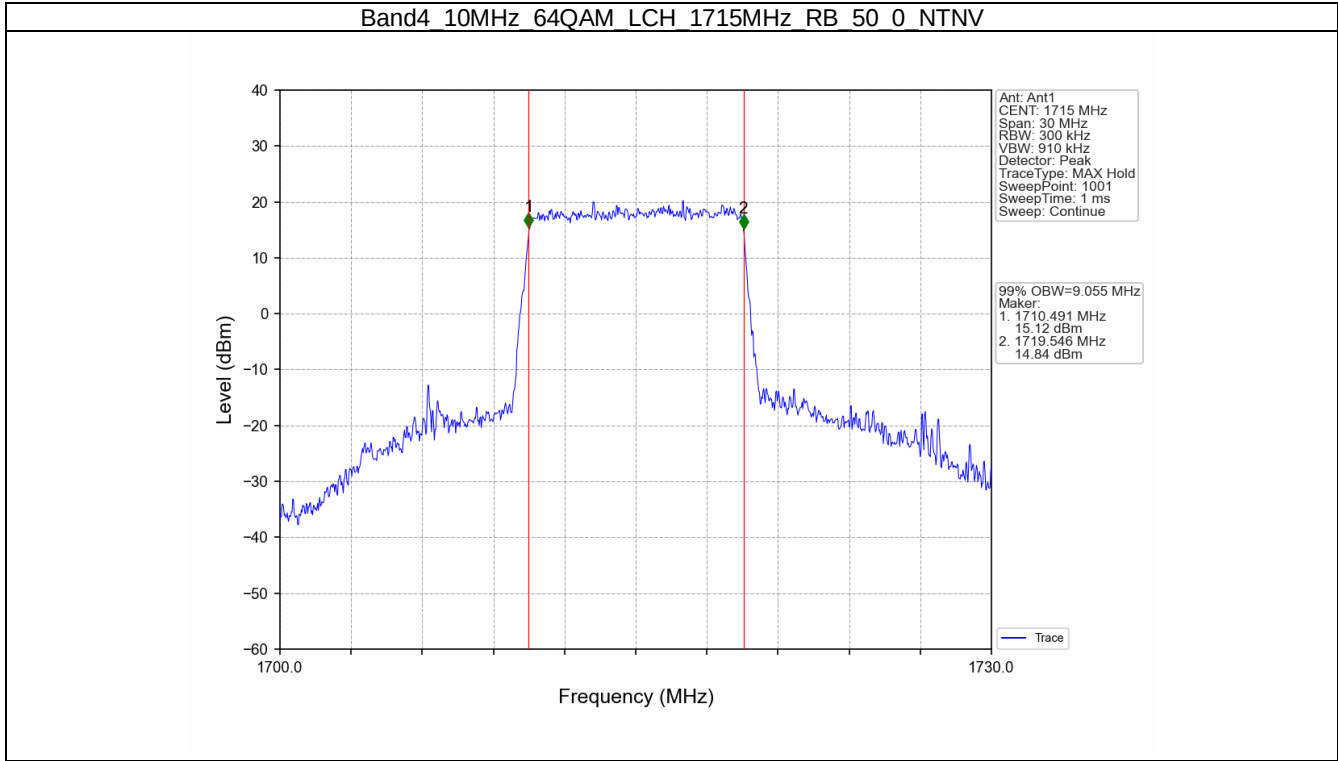
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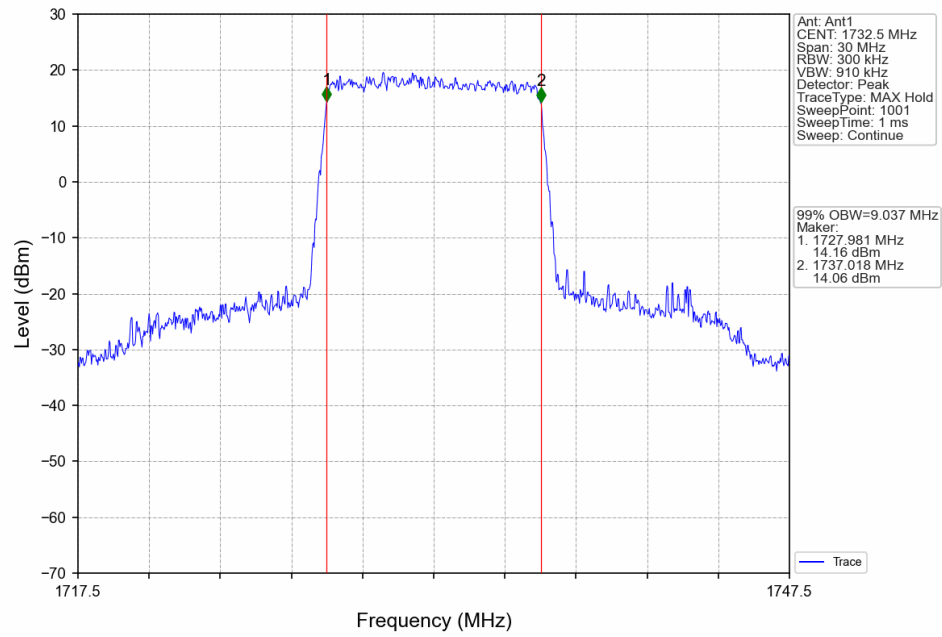


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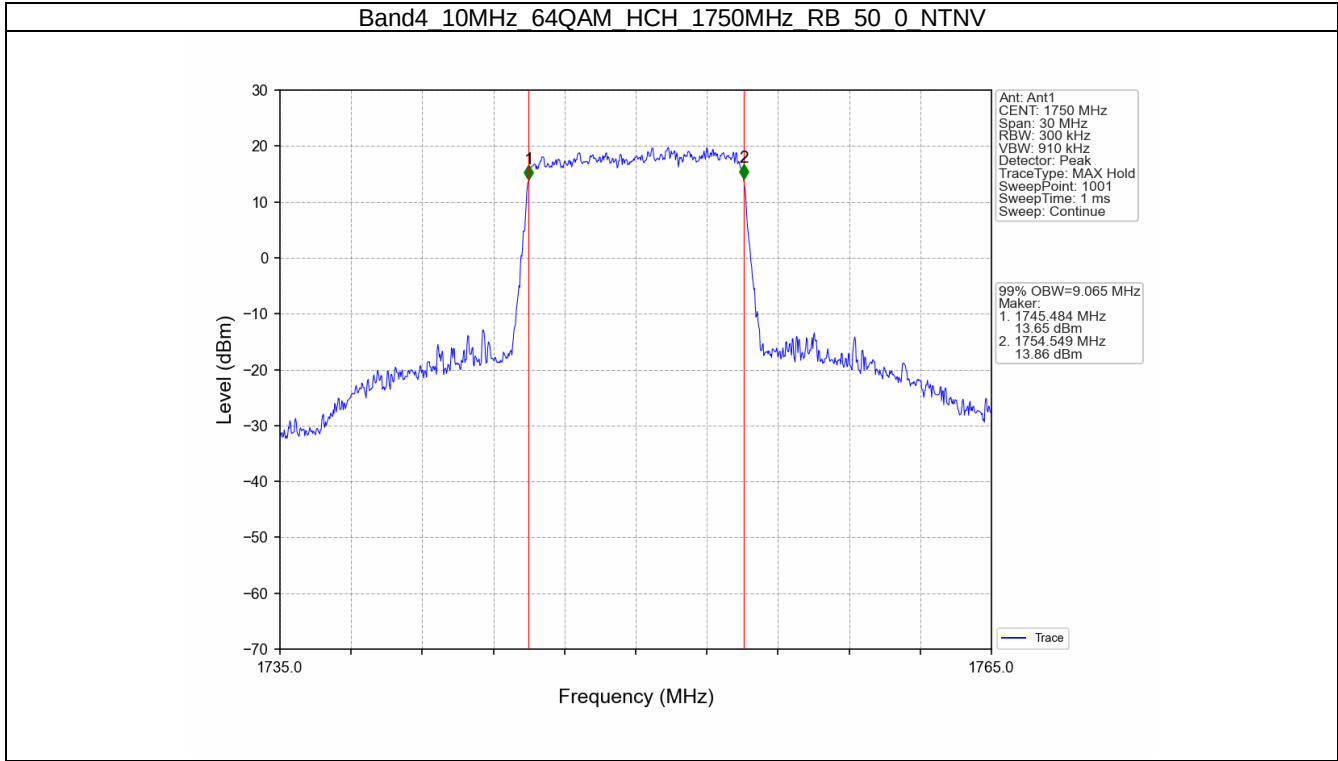
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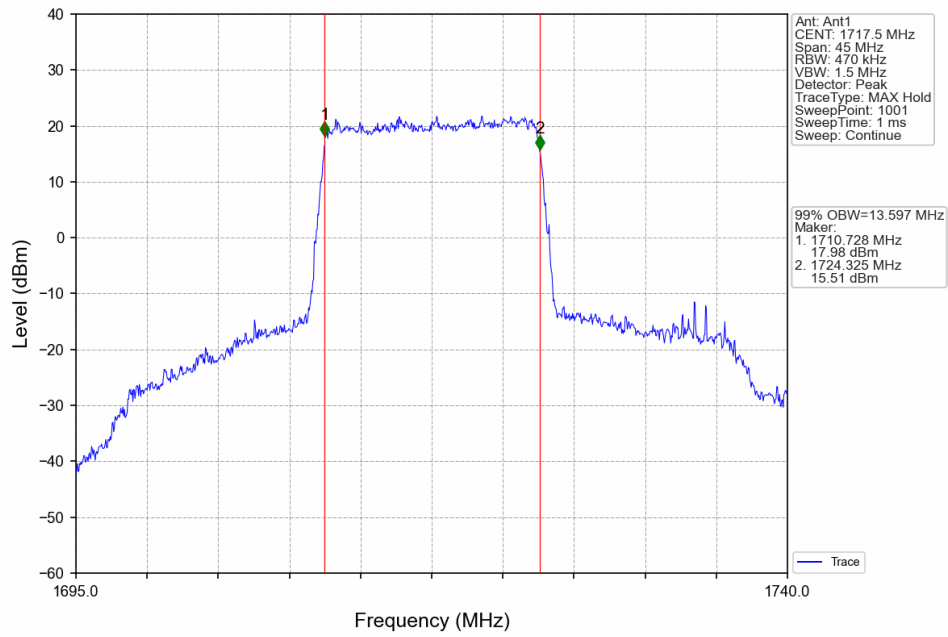


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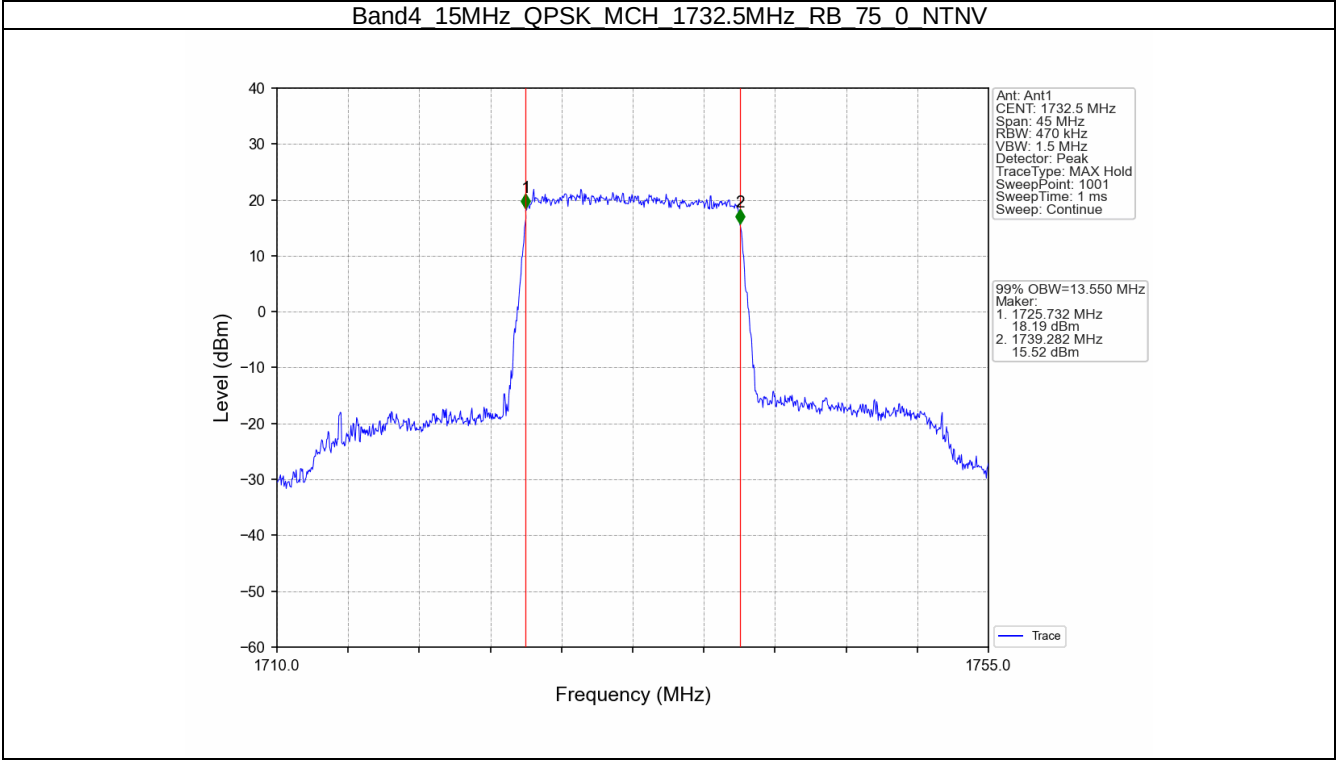
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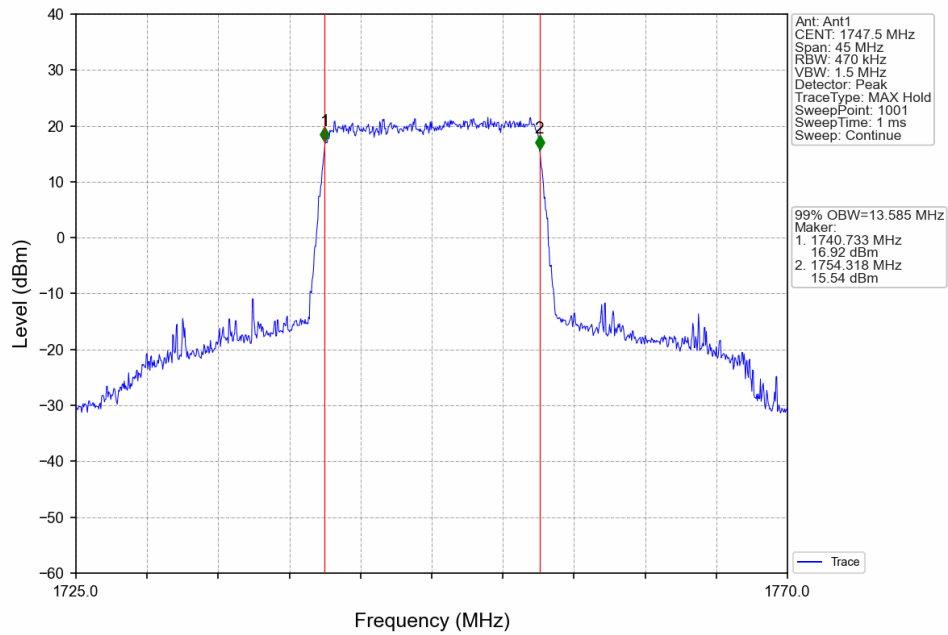


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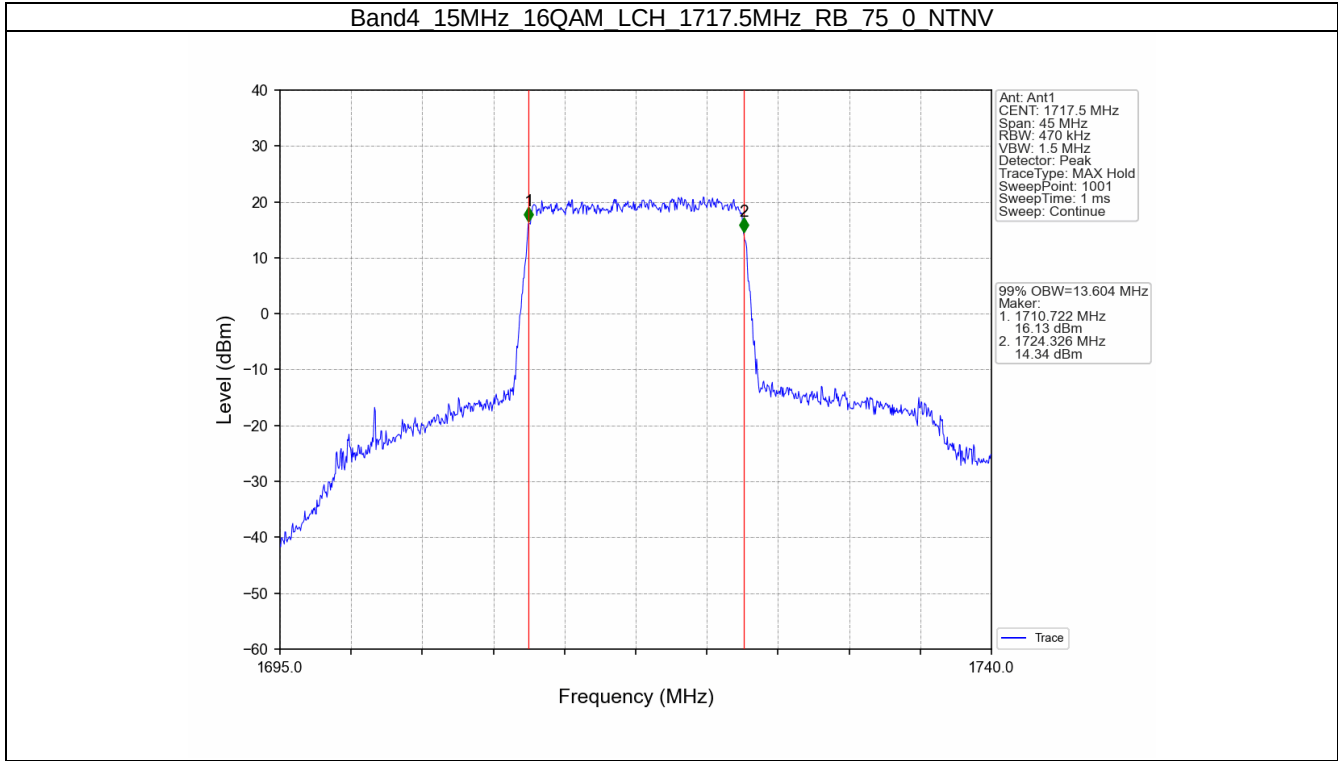
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



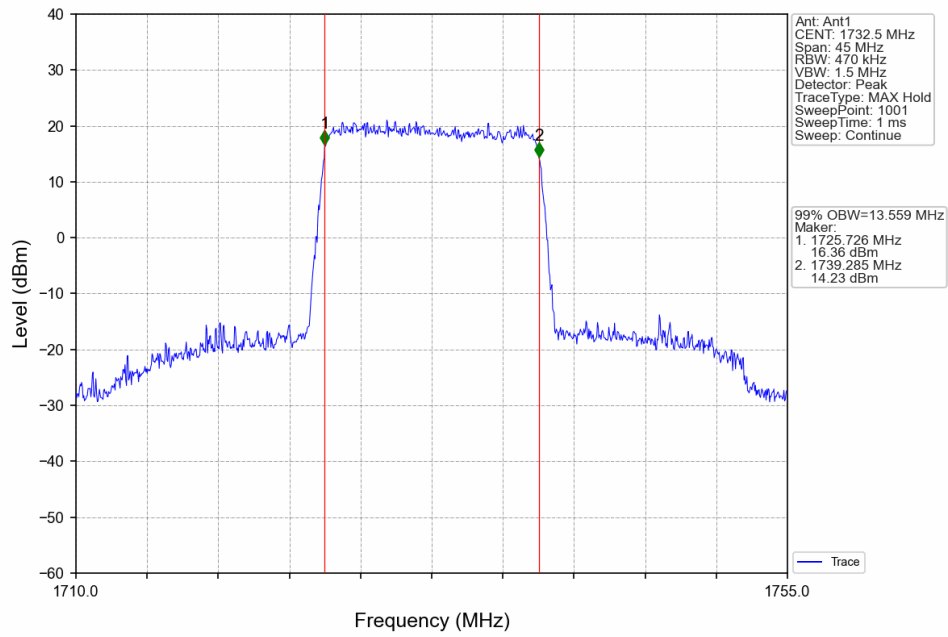


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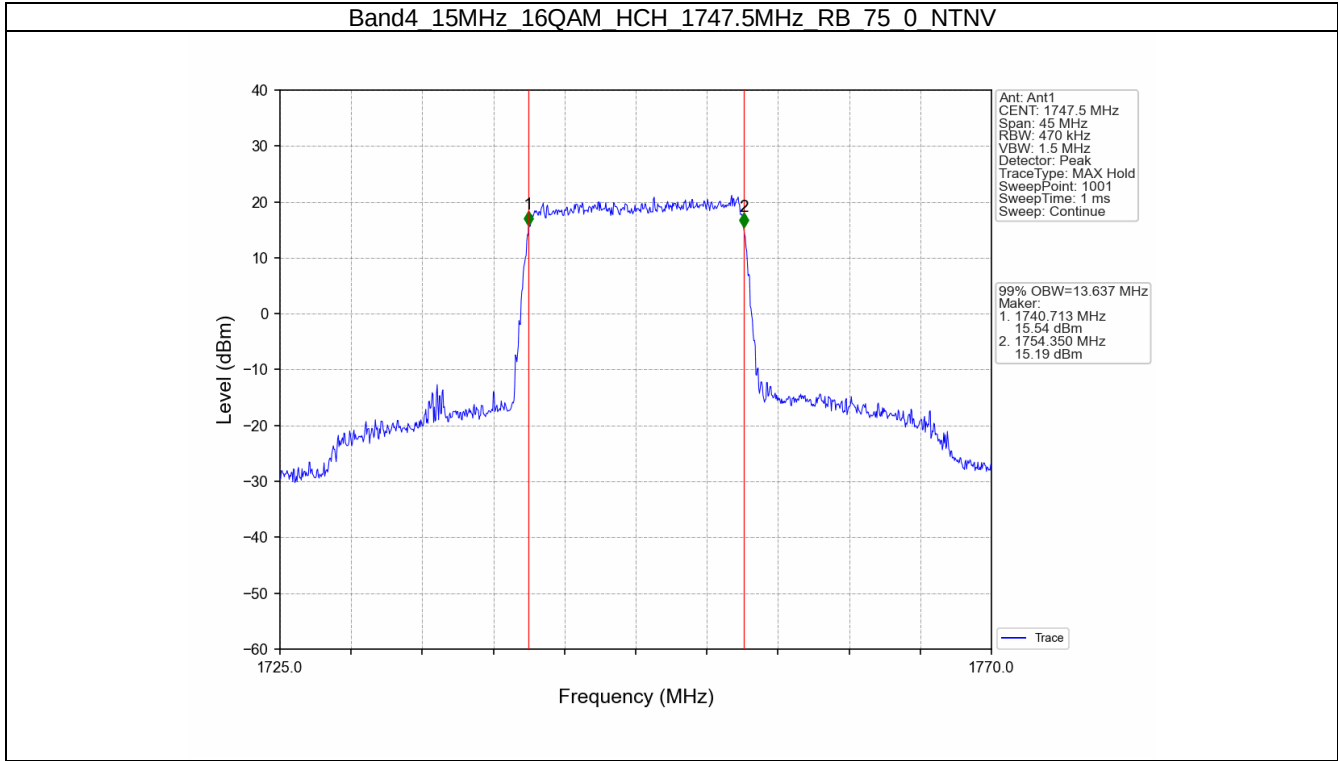
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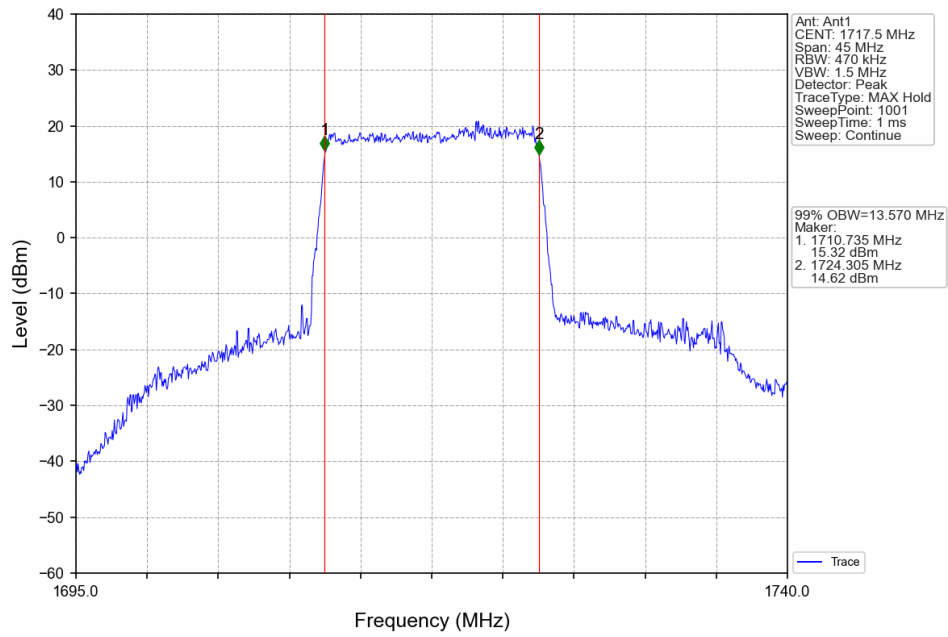


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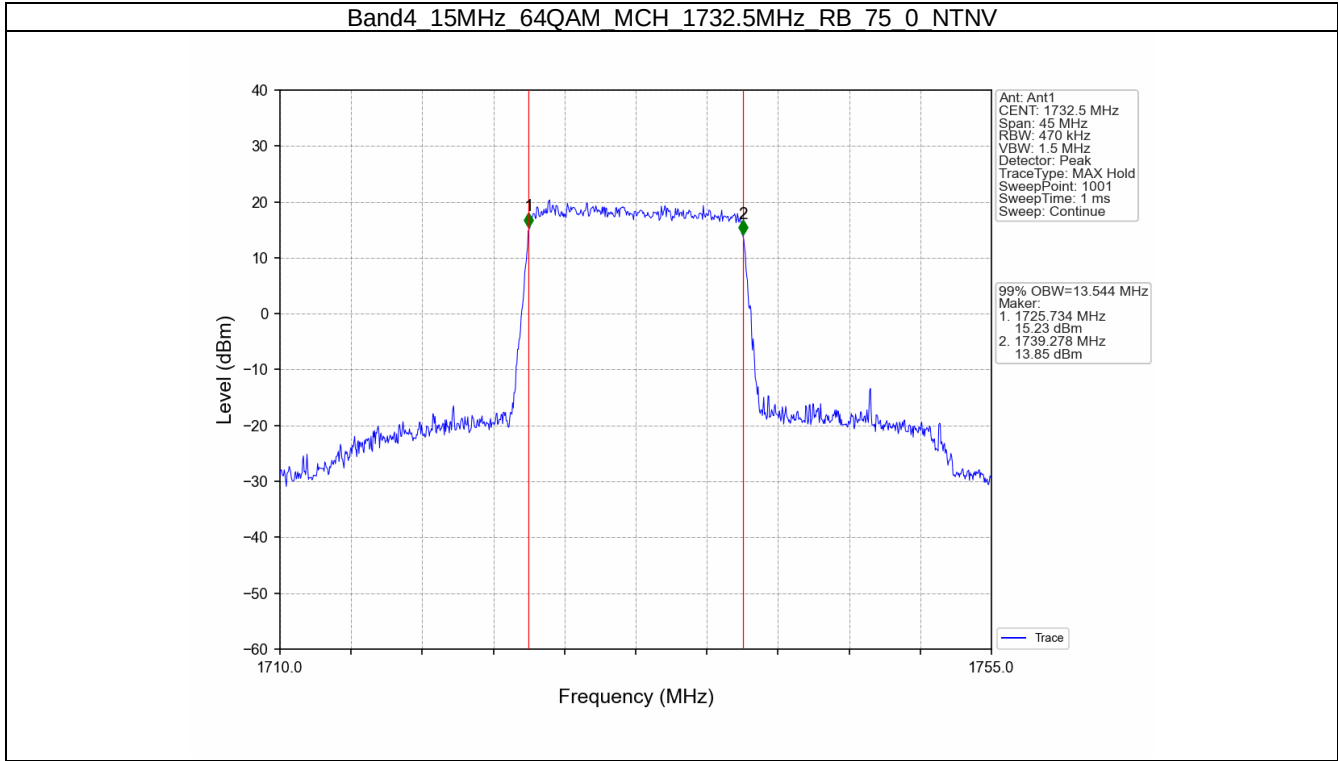
Band4 15MHz 64QAM LCH 1717.5MHz RB 75_0 NTNV



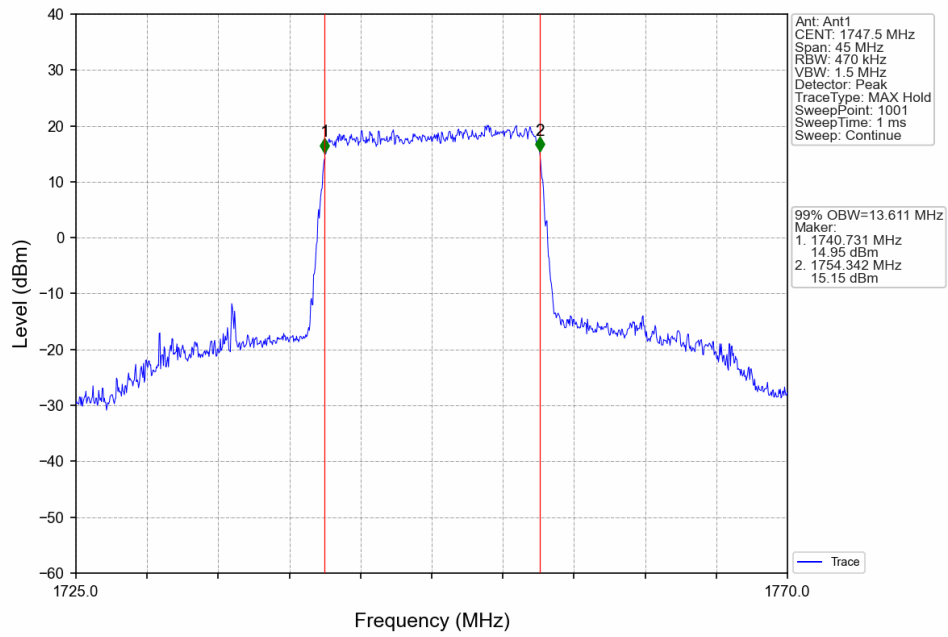


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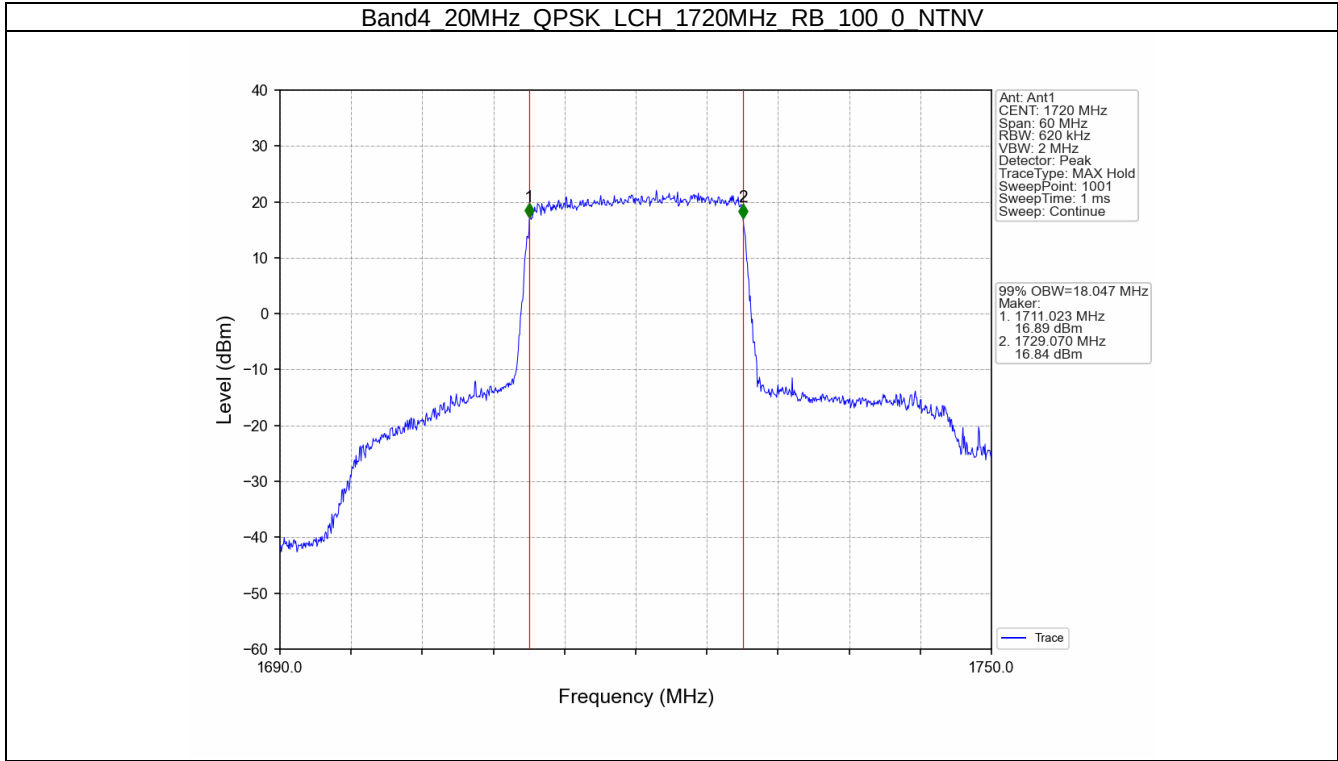
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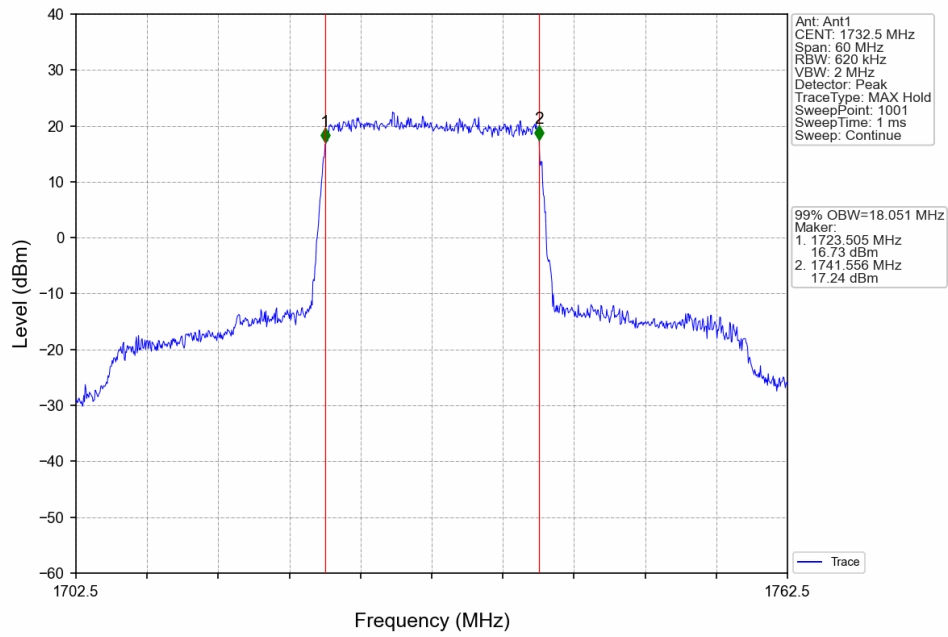


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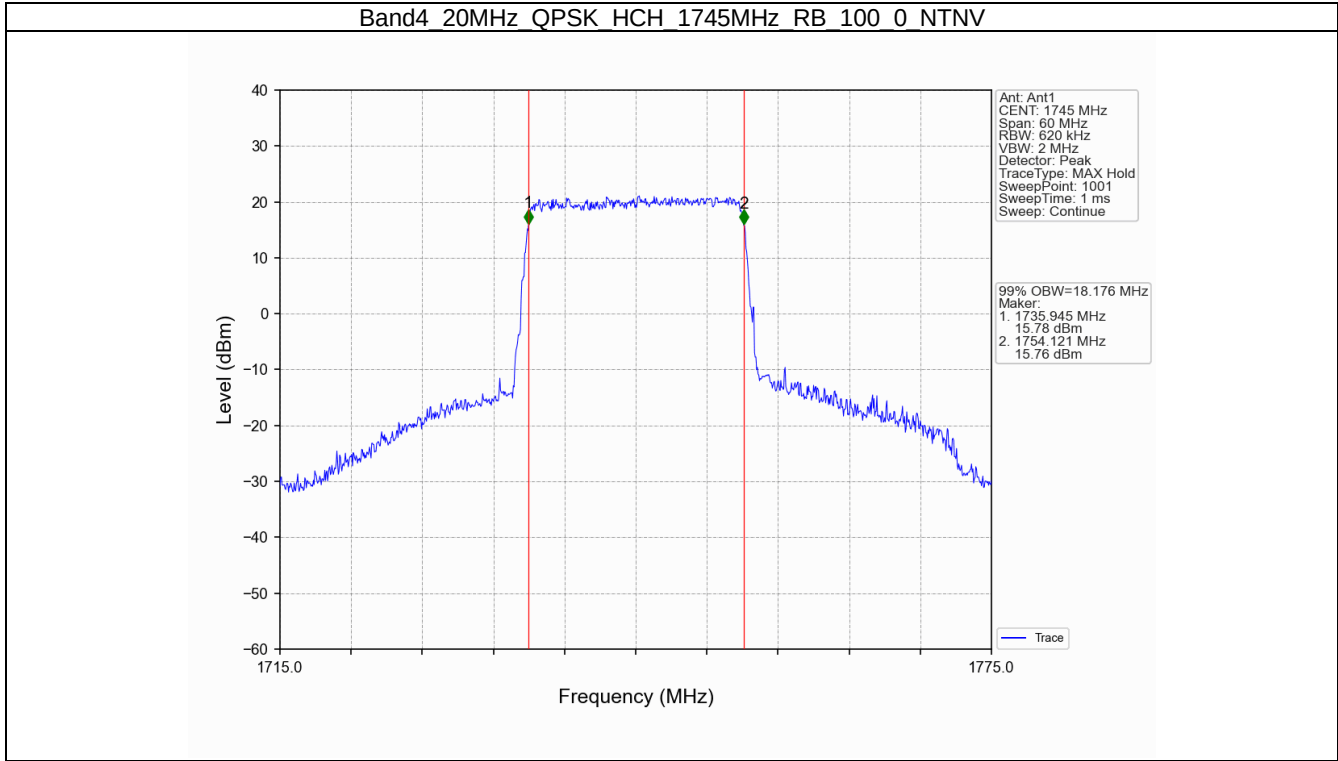
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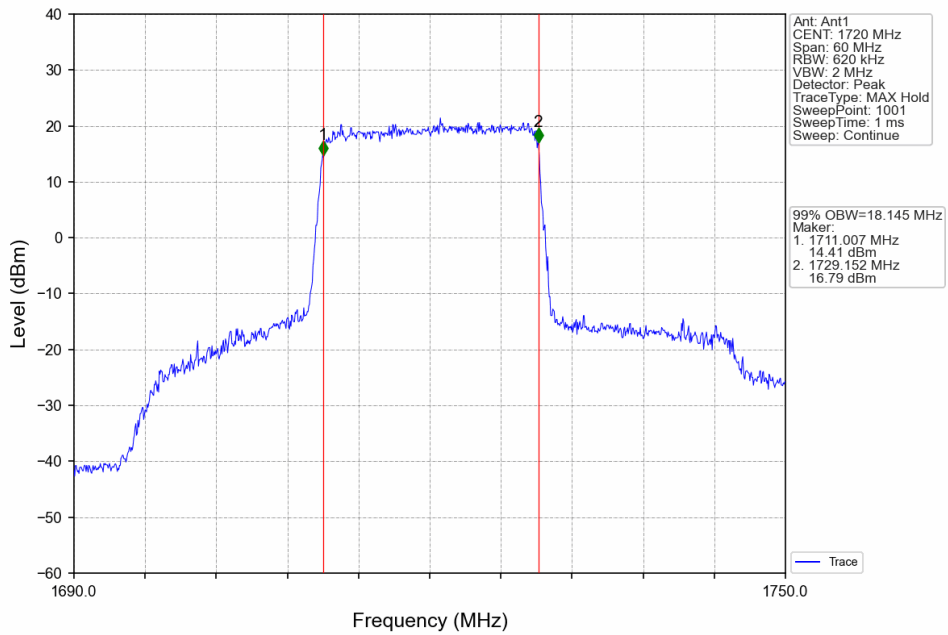


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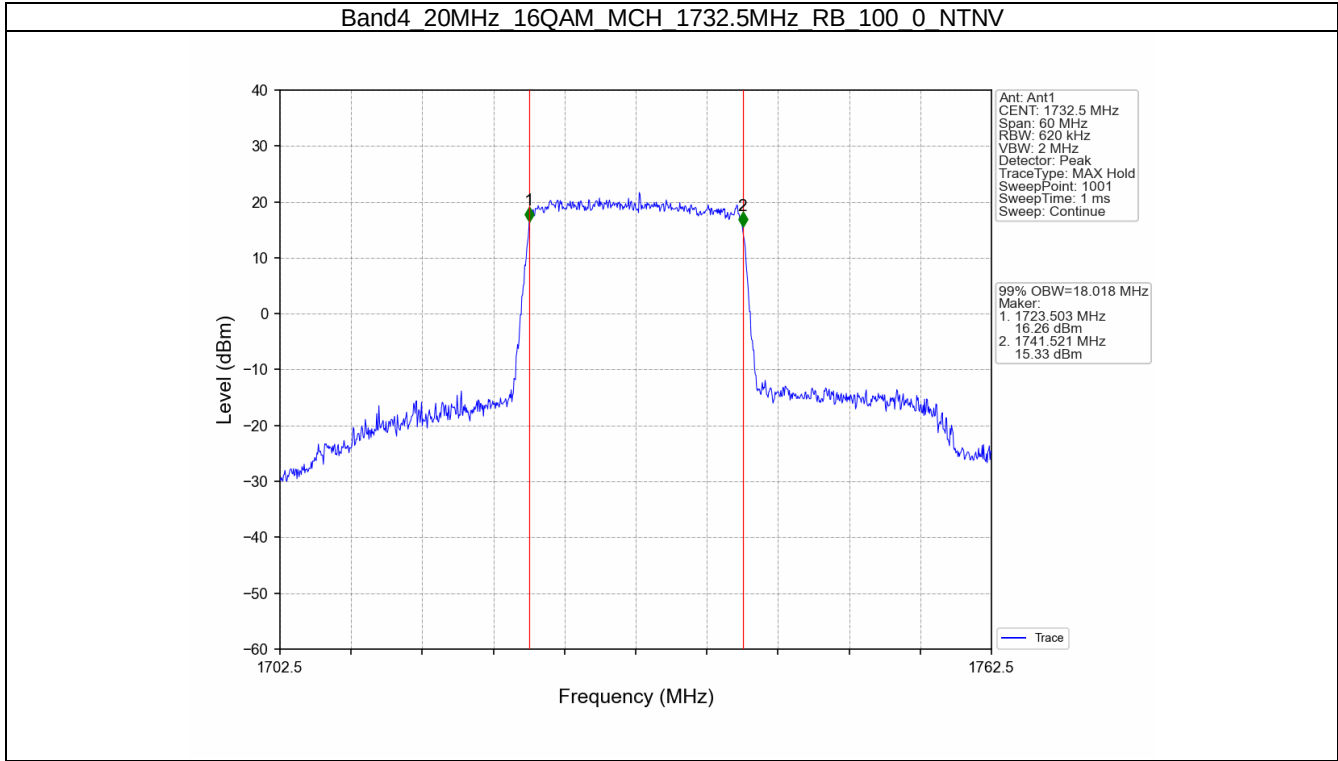
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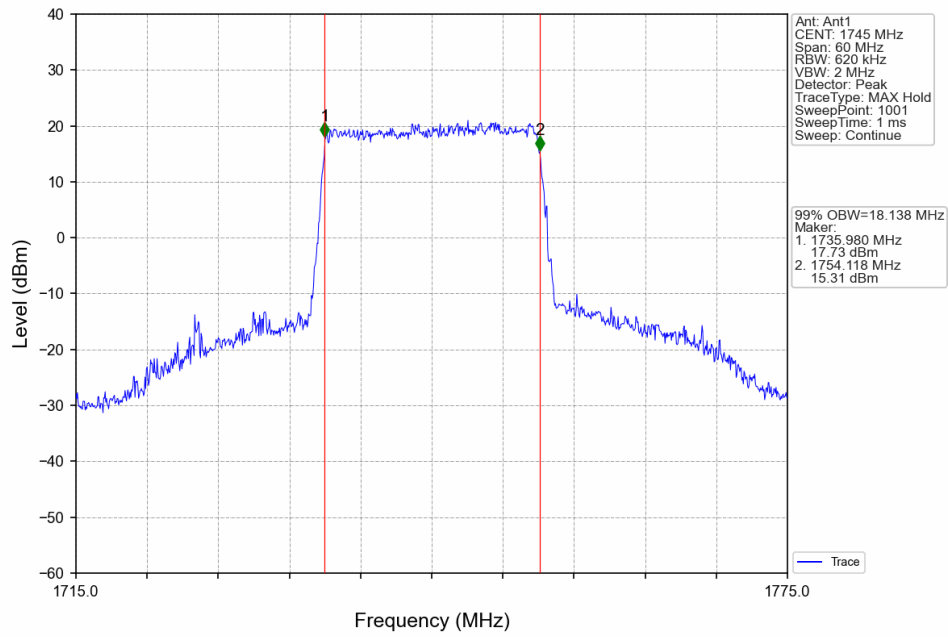


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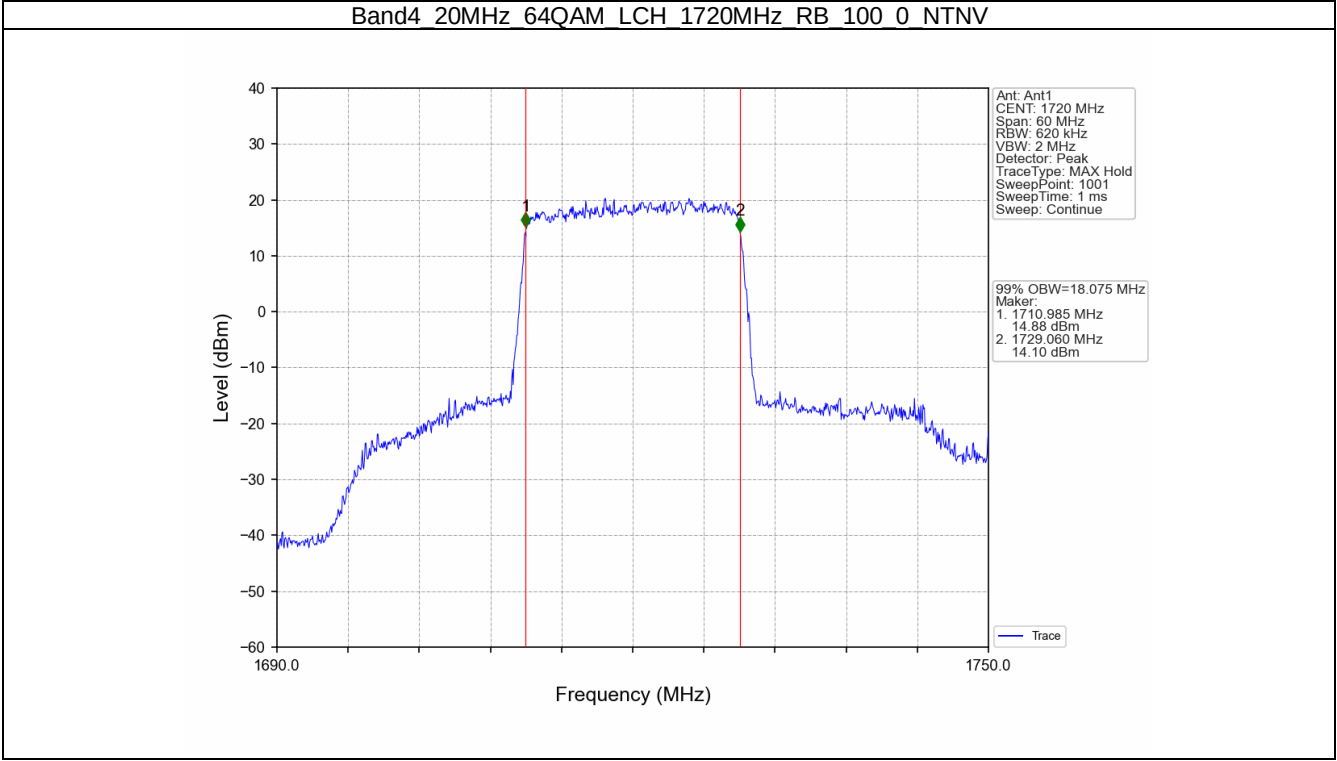
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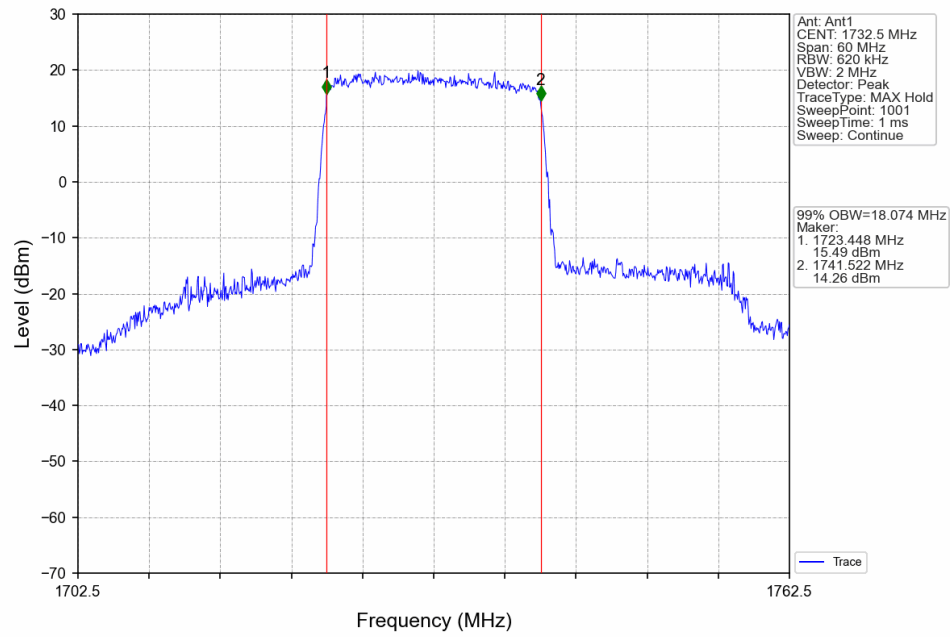


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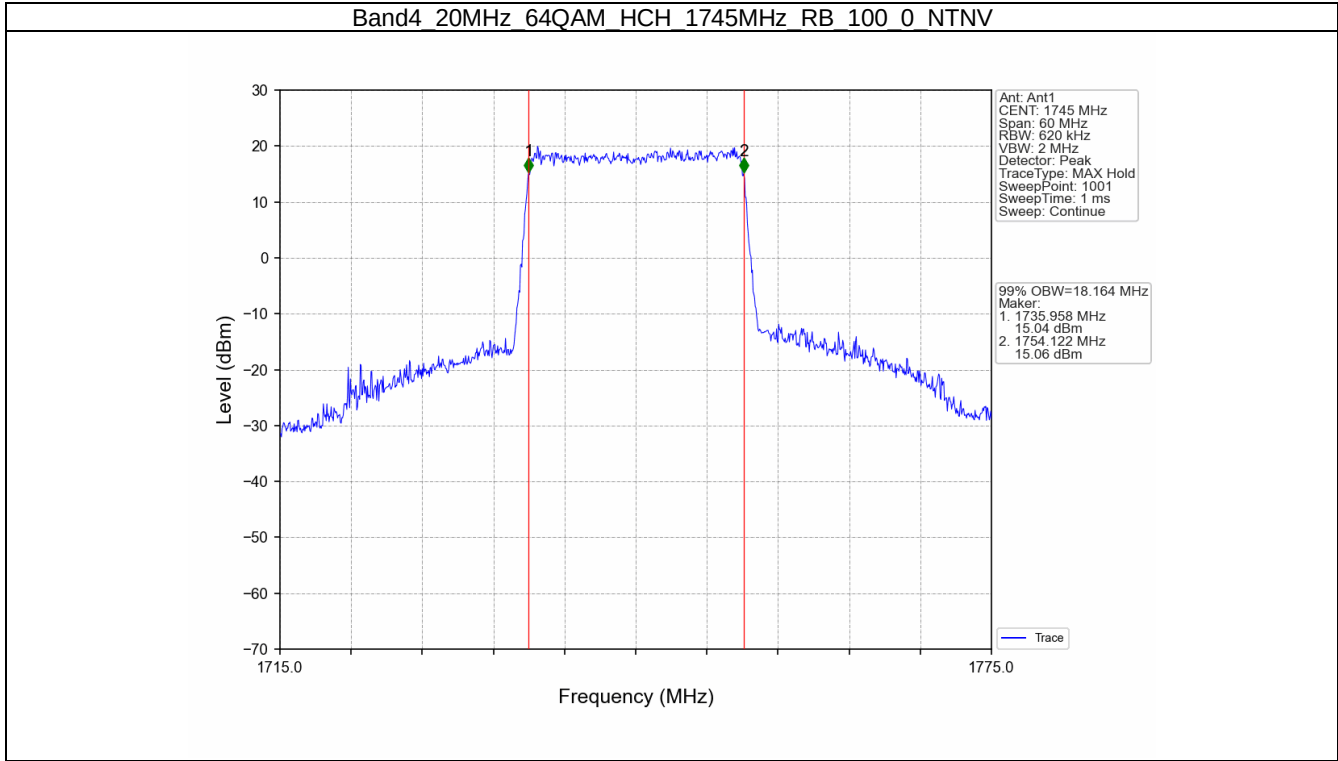




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2.2 Band4_XDB

2.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.264	/	Pass
		1732.5	6	0	1.265	/	Pass
		1754.3	6	0	1.259	/	Pass
	16QAM	1710.7	6	0	1.263	/	Pass
		1732.5	6	0	1.256	/	Pass
		1754.3	6	0	1.268	/	Pass
	64QAM	1710.7	6	0	1.261	/	Pass
		1732.5	6	0	1.270	/	Pass
		1754.3	6	0	1.258	/	Pass
3	QPSK	1711.5	15	0	3.070	/	Pass
		1732.5	15	0	3.036	/	Pass
		1753.5	15	0	3.075	/	Pass
	16QAM	1711.5	15	0	3.069	/	Pass
		1732.5	15	0	3.077	/	Pass
		1753.5	15	0	3.081	/	Pass
	64QAM	1711.5	15	0	3.079	/	Pass
		1732.5	15	0	3.069	/	Pass
		1753.5	15	0	3.072	/	Pass
5	QPSK	1712.5	25	0	5.041	/	Pass
		1732.5	25	0	5.060	/	Pass
		1752.5	25	0	5.075	/	Pass
	16QAM	1712.5	25	0	5.032	/	Pass
		1732.5	25	0	5.056	/	Pass
		1752.5	25	0	5.057	/	Pass
	64QAM	1712.5	25	0	5.061	/	Pass
		1732.5	25	0	5.064	/	Pass
		1752.5	25	0	5.044	/	Pass
10	QPSK	1715	50	0	10.020	/	Pass
		1732.5	50	0	9.943	/	Pass
		1750	50	0	9.922	/	Pass
	16QAM	1715	50	0	9.922	/	Pass
		1732.5	50	0	9.923	/	Pass
		1750	50	0	9.939	/	Pass
	64QAM	1715	50	0	9.954	/	Pass
		1732.5	50	0	9.879	/	Pass
		1750	50	0	9.969	/	Pass
15	QPSK	1717.5	75	0	14.968	/	Pass
		1732.5	75	0	14.986	/	Pass
		1747.5	75	0	14.923	/	Pass
	16QAM	1717.5	75	0	14.968	/	Pass
		1732.5	75	0	14.882	/	Pass
		1747.5	75	0	14.935	/	Pass
	64QAM	1717.5	75	0	14.945	/	Pass
		1732.5	75	0	14.868	/	Pass
		1747.5	75	0	14.872	/	Pass
20	QPSK	1720	100	0	19.729	/	Pass
		1732.5	100	0	19.524	/	Pass
		1745	100	0	19.966	/	Pass
	16QAM	1720	100	0	19.804	/	Pass



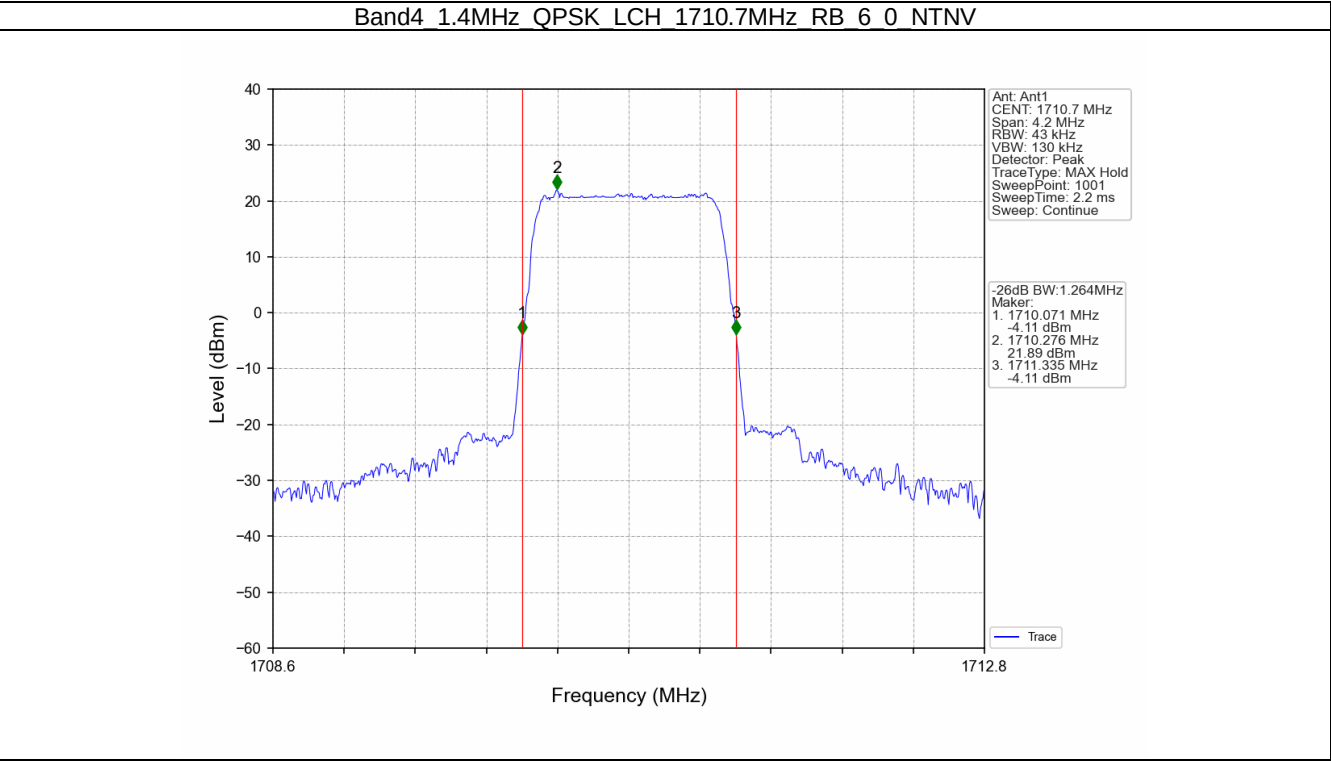
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		1732.5	100	0	19.591	/	Pass
		1745	100	0	19.957	/	Pass
	64QAM	1720	100	0	19.753	/	Pass
		1732.5	100	0	19.649	/	Pass
		1745	100	0	19.752	/	Pass

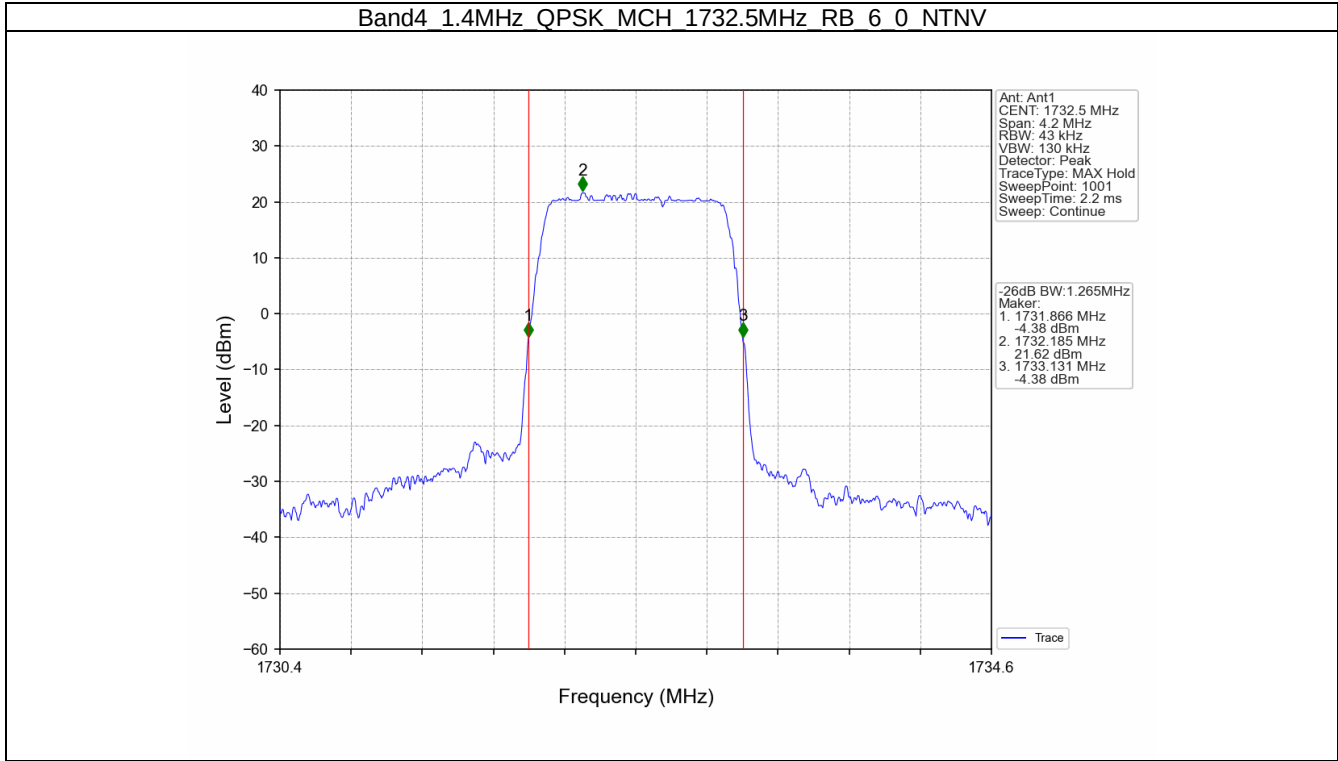
2.2.2 Test Graph



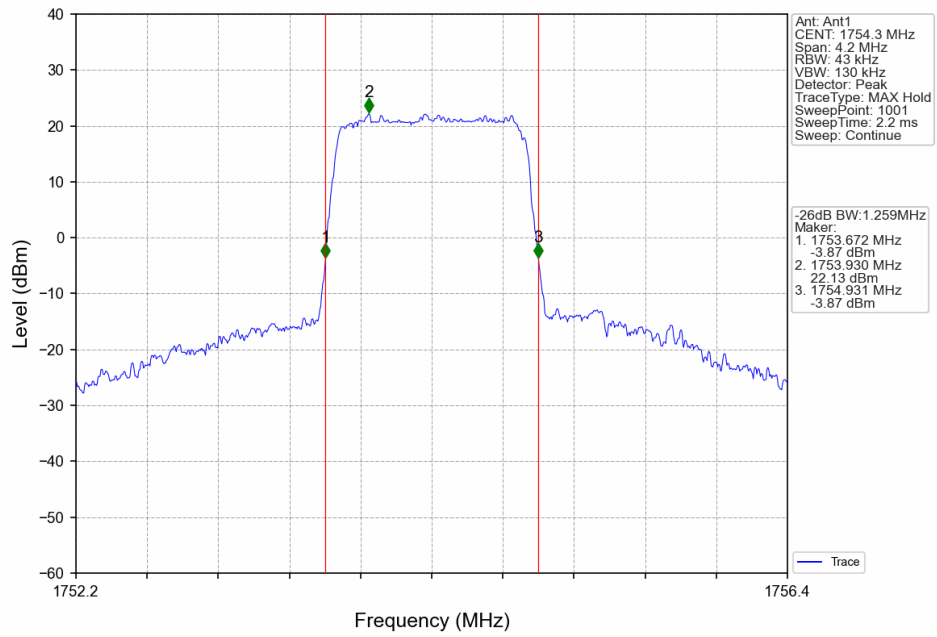


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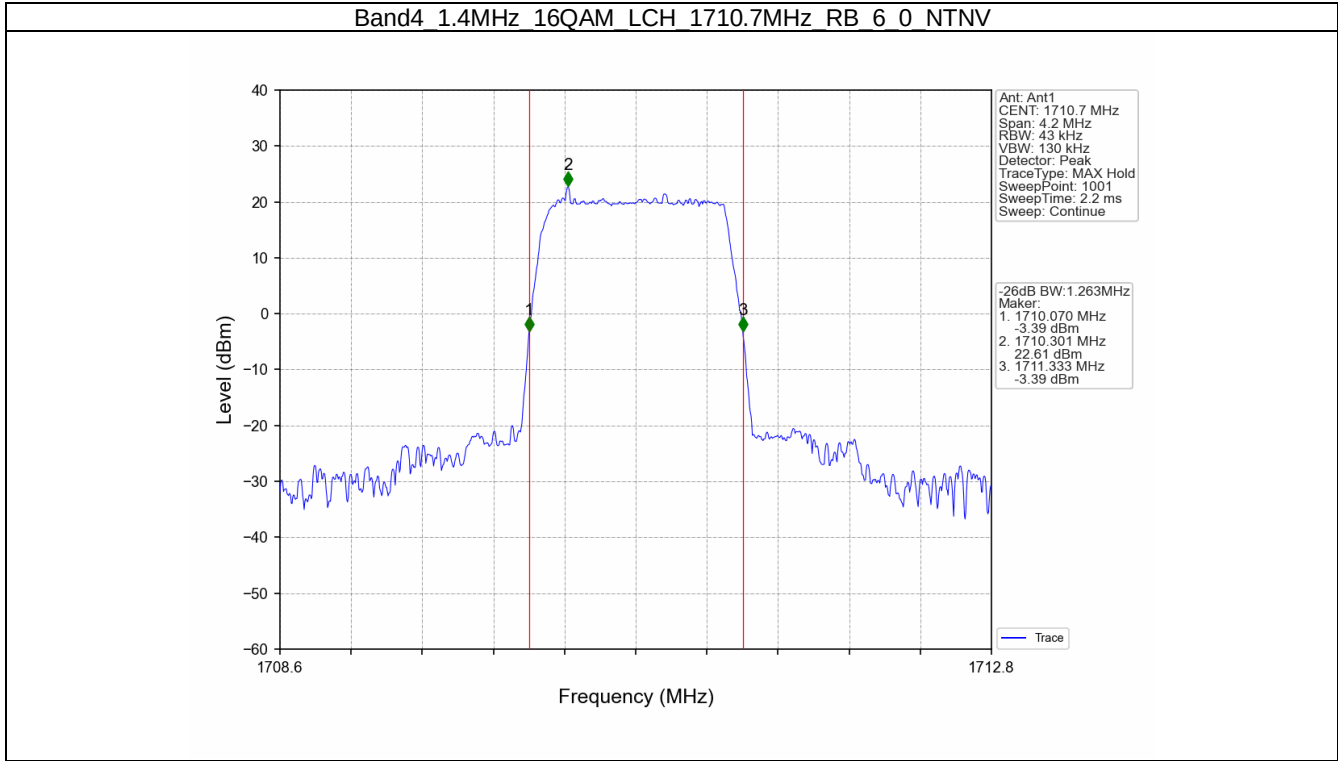
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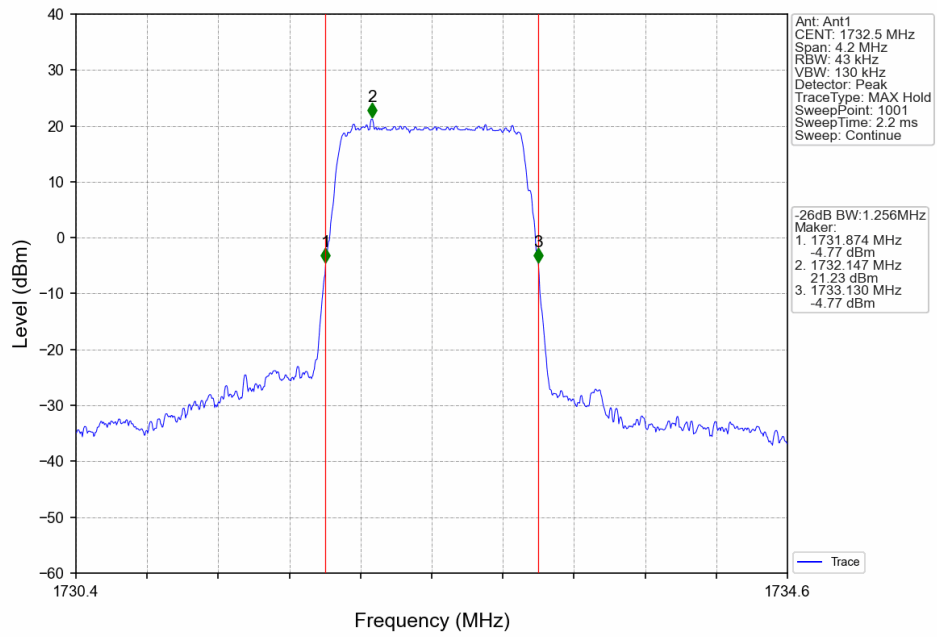


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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV





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