

Appendix B.4

LTE Band 12



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.63	0.86	22.34	<=34.77	Pass
			2	23.61	0.86	22.32	<=34.77	Pass
			5	23.54	0.86	22.25	<=34.77	Pass
		3	0	23.62	0.86	22.33	<=34.77	Pass
			2	23.57	0.86	22.28	<=34.77	Pass
			3	23.58	0.86	22.29	<=34.77	Pass
	707.5	6	0	22.57	0.86	21.28	<=34.77	Pass
		1	0	23.77	0.86	22.48	<=34.77	Pass
			2	23.84	0.86	22.55	<=34.77	Pass
			5	23.79	0.86	22.50	<=34.77	Pass
		3	0	23.82	0.86	22.53	<=34.77	Pass
			2	23.79	0.86	22.50	<=34.77	Pass
			3	23.8	0.86	22.51	<=34.77	Pass
16QAM	715.3	1	0	22.79	0.86	21.50	<=34.77	Pass
			2	23.81	0.86	22.52	<=34.77	Pass
			5	23.76	0.86	22.47	<=34.77	Pass
		3	0	23.81	0.86	22.52	<=34.77	Pass
			2	23.81	0.86	22.52	<=34.77	Pass
			3	23.75	0.86	22.46	<=34.77	Pass
	699.7	6	0	22.82	0.86	21.53	<=34.77	Pass
		1	0	22.75	0.86	21.46	<=34.77	Pass
			2	22.77	0.86	21.48	<=34.77	Pass
			5	22.7	0.86	21.41	<=34.77	Pass
		3	0	22.71	0.86	21.42	<=34.77	Pass
			2	22.66	0.86	21.37	<=34.77	Pass
			3	22.66	0.86	21.37	<=34.77	Pass
		6	0	21.58	0.86	20.29	<=34.77	Pass

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	707.5	1	0	22.96	0.86	21.67	<=34.77	Pass
			2	22.96	0.86	21.67	<=34.77	Pass
			5	22.96	0.86	21.67	<=34.77	Pass
		3	0	22.88	0.86	21.59	<=34.77	Pass
			2	22.87	0.86	21.58	<=34.77	Pass
			3	22.85	0.86	21.56	<=34.77	Pass
	715.3	6	0	21.87	0.86	20.58	<=34.77	Pass
		1	0	22.98	0.86	21.69	<=34.77	Pass
			2	22.99	0.86	21.70	<=34.77	Pass
			5	22.95	0.86	21.66	<=34.77	Pass
		3	0	22.95	0.86	21.66	<=34.77	Pass
			2	22.91	0.86	21.62	<=34.77	Pass
			3	22.88	0.86	21.59	<=34.77	Pass
		6	0	21.68	0.86	20.39	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.52	0.86	22.23	<=34.77	Pass
			7	23.63	0.86	22.34	<=34.77	Pass
			14	23.52	0.86	22.23	<=34.77	Pass
		8	0	22.68	0.86	21.39	<=34.77	Pass
			4	22.69	0.86	21.40	<=34.77	Pass
			7	22.6	0.86	21.31	<=34.77	Pass
	707.5	15	0	22.63	0.86	21.34	<=34.77	Pass
		1	0	23.78	0.86	22.49	<=34.77	Pass
			7	23.88	0.86	22.59	<=34.77	Pass
			14	23.76	0.86	22.47	<=34.77	Pass
		8	0	22.83	0.86	21.54	<=34.77	Pass
			4	22.89	0.86	21.60	<=34.77	Pass
			7	22.88	0.86	21.59	<=34.77	Pass
	714.5	15	0	22.81	0.86	21.52	<=34.77	Pass
		1	0	23.72	0.86	22.43	<=34.77	Pass
			7	23.73	0.86	22.44	<=34.77	Pass
			14	23.63	0.86	22.34	<=34.77	Pass



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		8	0	22.72	0.86	21.43	<=34.77	Pass
			4	22.83	0.86	21.54	<=34.77	Pass
			7	22.69	0.86	21.40	<=34.77	Pass
			15	0	22.75	0.86	21.46	<=34.77
16QAM	700.5	1	0	22.87	0.86	21.58	<=34.77	Pass
			7	22.9	0.86	21.61	<=34.77	Pass
			14	22.77	0.86	21.48	<=34.77	Pass
		8	0	21.73	0.86	20.44	<=34.77	Pass
			4	21.73	0.86	20.44	<=34.77	Pass
			7	21.6	0.86	20.31	<=34.77	Pass
	707.5	15	0	21.64	0.86	20.35	<=34.77	Pass
		1	0	22.99	0.86	21.70	<=34.77	Pass
			7	23.04	0.86	21.75	<=34.77	Pass
			14	22.92	0.86	21.63	<=34.77	Pass
		8	0	21.78	0.86	20.49	<=34.77	Pass
			4	21.96	0.86	20.67	<=34.77	Pass
			7	21.91	0.86	20.62	<=34.77	Pass
	714.5	15	0	21.82	0.86	20.53	<=34.77	Pass
		1	0	22.91	0.86	21.62	<=34.77	Pass
			7	22.96	0.86	21.67	<=34.77	Pass
			14	22.83	0.86	21.54	<=34.77	Pass
		8	0	21.81	0.86	20.52	<=34.77	Pass
			4	21.87	0.86	20.58	<=34.77	Pass
			7	21.78	0.86	20.49	<=34.77	Pass
		15	0	21.78	0.86	20.49	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)	Verdict	
		Size	Offset					
QPSK	701.5	1	0	23.82	0.86	22.53	<=34.77	Pass
			13	23.9	0.86	22.61	<=34.77	Pass
			24	23.82	0.86	22.53	<=34.77	Pass
		12	0	22.75	0.86	21.46	<=34.77	Pass
			6	22.84	0.86	21.55	<=34.77	Pass
			13	22.73	0.86	21.44	<=34.77	Pass

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		25	0	22.82	0.86	21.53	<=34.77	Pass
707.5	1	0	23.75	0.86	22.46	<=34.77	Pass	
		13	23.82	0.86	22.53	<=34.77	Pass	
		24	23.78	0.86	22.49	<=34.77	Pass	
		0	22.77	0.86	21.48	<=34.77	Pass	
	12	6	22.76	0.86	21.47	<=34.77	Pass	
		13	22.81	0.86	21.52	<=34.77	Pass	
713.5	25	0	22.73	0.86	21.44	<=34.77	Pass	
	1	0	24.02	0.86	22.73	<=34.77	Pass	
		13	24.03	0.86	22.74	<=34.77	Pass	
		24	23.88	0.86	22.59	<=34.77	Pass	
	12	0	22.91	0.86	21.62	<=34.77	Pass	
		6	22.97	0.86	21.68	<=34.77	Pass	
		13	22.89	0.86	21.60	<=34.77	Pass	
	25	0	22.96	0.86	21.67	<=34.77	Pass	
16QAM	701.5	0	22.86	0.86	21.57	<=34.77	Pass	
		13	22.86	0.86	21.57	<=34.77	Pass	
		24	22.81	0.86	21.52	<=34.77	Pass	
		0	21.66	0.86	20.37	<=34.77	Pass	
		12	21.67	0.86	20.38	<=34.77	Pass	
	707.5	13	21.65	0.86	20.36	<=34.77	Pass	
		25	0	21.74	0.86	20.45	<=34.77	Pass
		0	22.88	0.86	21.59	<=34.77	Pass	
		13	22.98	0.86	21.69	<=34.77	Pass	
		24	22.9	0.86	21.61	<=34.77	Pass	
	713.5	0	21.74	0.86	20.45	<=34.77	Pass	
		6	21.67	0.86	20.38	<=34.77	Pass	
		13	21.83	0.86	20.54	<=34.77	Pass	
		25	0	21.73	0.86	20.44	<=34.77	Pass
		0	23.16	0.86	21.87	<=34.77	Pass	
	1	13	23.09	0.86	21.80	<=34.77	Pass	
		24	23.06	0.86	21.77	<=34.77	Pass	
		0	21.82	0.86	20.53	<=34.77	Pass	
	12	6	21.98	0.86	20.69	<=34.77	Pass	
		13	21.99	0.86	20.70	<=34.77	Pass	
		25	0	21.94	0.86	20.65	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.78	0.86	22.49	<=34.77	Pass
			25	23.88	0.86	22.59	<=34.77	Pass
			49	23.89	0.86	22.60	<=34.77	Pass
		25	0	22.83	0.86	21.54	<=34.77	Pass
			13	22.93	0.86	21.64	<=34.77	Pass
			25	22.93	0.86	21.64	<=34.77	Pass
	707.5	1	0	22.92	0.86	21.63	<=34.77	Pass
			25	23.82	0.86	22.53	<=34.77	Pass
			49	23.94	0.86	22.65	<=34.77	Pass
		25	0	23.89	0.86	22.60	<=34.77	Pass
			13	22.87	0.86	21.58	<=34.77	Pass
			25	22.96	0.86	21.67	<=34.77	Pass
16QAM	711	1	0	22.87	0.86	21.58	<=34.77	Pass
			25	23.91	0.86	22.62	<=34.77	Pass
			49	23.89	0.86	22.60	<=34.77	Pass
		25	0	23.85	0.86	22.56	<=34.77	Pass
			13	22.87	0.86	21.61	<=34.77	Pass
			25	22.9	0.86	21.72	<=34.77	Pass
	704	1	0	22.95	0.86	21.66	<=34.77	Pass
			25	22.96	0.86	21.67	<=34.77	Pass
			49	22.96	0.86	21.67	<=34.77	Pass
		25	0	22.97	0.86	21.68	<=34.77	Pass
			25	23	0.86	21.71	<=34.77	Pass
			49	22.93	0.86	21.64	<=34.77	Pass
	707.5	1	0	21.84	0.86	20.55	<=34.77	Pass
			13	21.94	0.86	20.65	<=34.77	Pass
			25	21.91	0.86	20.62	<=34.77	Pass
		25	0	21.91	0.86	20.62	<=34.77	Pass
			0	22.97	0.86	21.68	<=34.77	Pass
			25	22.96	0.86	21.67	<=34.77	Pass
		1	49	22.86	0.86	21.57	<=34.77	Pass
			0	21.89	0.86	20.60	<=34.77	Pass
		25	13	21.91	0.86	20.62	<=34.77	Pass

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711		25	21.99	0.86	20.70	<=34.77	Pass
	50	0	21.9	0.86	20.61	<=34.77	Pass
	1	0	23	0.86	21.71	<=34.77	Pass
		25	23.05	0.86	21.76	<=34.77	Pass
		49	23	0.86	21.71	<=34.77	Pass
	25	0	21.93	0.86	20.64	<=34.77	Pass
		13	21.98	0.86	20.69	<=34.77	Pass
		25	21.93	0.86	20.64	<=34.77	Pass
	50	0	21.97	0.86	20.68	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 1.4MHz							
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	12.045	0.0172	-2.5 to 2.5	Pass
					3.85	13.704	0.0196	-2.5 to 2.5	Pass
					4.43	5.407	0.0077	-2.5 to 2.5	Pass
				-30	3.85	2.375	0.0034	-2.5 to 2.5	Pass
				-20	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				-10	3.85	7.653	0.0109	-2.5 to 2.5	Pass
				0	3.85	2.389	0.0034	-2.5 to 2.5	Pass
				10	3.85	1.502	0.0021	-2.5 to 2.5	Pass
				30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0008	-2.5 to 2.5	Pass
QPSK	707.5	6	0	20	3.27	-19.298	-0.0273	-2.5 to 2.5	Pass
					3.85	-6.094	-0.0086	-2.5 to 2.5	Pass
					4.43	-1.445	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass

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	715.3	6	0	0	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				50	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				20	3.27	-21.443	-0.0300	-2.5 to 2.5	Pass
					3.85	-8.955	-0.0125	-2.5 to 2.5	Pass
					4.43	-2.747	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-0.315	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.372	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.944	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				50	3.85	0.286	0.0004	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-0.501	-0.0007	-2.5 to 2.5	Pass
					3.85	0.443	0.0006	-2.5 to 2.5	Pass
					4.43	-0.501	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass

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715.3	6	0	50	3.85	0.029	0.0000	-2.5 to 2.5	Pass
			20	3.27	0.057	0.0001	-2.5 to 2.5	Pass
			20	3.85	0.172	0.0002	-2.5 to 2.5	Pass
			20	4.43	0.558	0.0008	-2.5 to 2.5	Pass
			-30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
			-20	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
			-10	3.85	0.401	0.0006	-2.5 to 2.5	Pass
			0	3.85	0.472	0.0007	-2.5 to 2.5	Pass
			10	3.85	0.129	0.0002	-2.5 to 2.5	Pass
			30	3.85	0.758	0.0011	-2.5 to 2.5	Pass
			40	3.85	0.672	0.0009	-2.5 to 2.5	Pass
			50	3.85	0.772	0.0011	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	1.817	0.0026	-2.5 to 2.5	Pass
					3.85	1.445	0.0021	-2.5 to 2.5	Pass
					4.43	1.316	0.0019	-2.5 to 2.5	Pass
				-30	3.85	0.787	0.0011	-2.5 to 2.5	Pass
				-20	3.85	1.574	0.0022	-2.5 to 2.5	Pass
				-10	3.85	1.574	0.0022	-2.5 to 2.5	Pass
				0	3.85	0.758	0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.601	-0.0009	-2.5 to 2.5	Pass
				50	3.85	0.801	0.0011	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	1.431	0.0020	-2.5 to 2.5	Pass
					3.85	0.901	0.0013	-2.5 to 2.5	Pass
					4.43	1.645	0.0023	-2.5 to 2.5	Pass
				-30	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				-20	3.85	0.758	0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.200	0.0003	-2.5 to 2.5	Pass

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	714.5	15	0	40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
				50	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass	
				20	3.27	1.488	0.0021	-2.5 to 2.5	Pass	
					3.85	0.815	0.0011	-2.5 to 2.5	Pass	
					4.43	0.844	0.0012	-2.5 to 2.5	Pass	
					-30	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass	
					-10	3.85	1.216	0.0017	-2.5 to 2.5	Pass
					0	3.85	0.401	0.0006	-2.5 to 2.5	Pass
					10	3.85	0.701	0.0010	-2.5 to 2.5	Pass
					30	3.85	0.358	0.0005	-2.5 to 2.5	Pass
					40	3.85	0.830	0.0012	-2.5 to 2.5	Pass
					50	3.85	0.544	0.0008	-2.5 to 2.5	Pass
	700.5	15	0	20	3.27	0.300	0.0004	-2.5 to 2.5	Pass	
					3.85	0.672	0.0010	-2.5 to 2.5	Pass	
					4.43	-0.329	-0.0005	-2.5 to 2.5	Pass	
					-30	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass	
					-10	3.85	0.701	0.0010	-2.5 to 2.5	Pass
					0	3.85	0.215	0.0003	-2.5 to 2.5	Pass
					10	3.85	0.787	0.0011	-2.5 to 2.5	Pass
					30	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
					40	3.85	0.830	0.0012	-2.5 to 2.5	Pass
					50	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
	16QAM	707.5	15	20	3.27	0.758	0.0011	-2.5 to 2.5	Pass	
					3.85	-0.572	-0.0008	-2.5 to 2.5	Pass	
					4.43	0.315	0.0004	-2.5 to 2.5	Pass	
					-30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass	
					-10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
					0	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
					10	3.85	0.772	0.0011	-2.5 to 2.5	Pass
					30	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
					40	3.85	0.257	0.0004	-2.5 to 2.5	Pass
					50	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.486	-0.0007	-2.5 to 2.5	Pass	
					3.85	0.215	0.0003	-2.5 to 2.5	Pass	

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				4.43	-0.515	-0.0007	-2.5 to 2.5	Pass	
				-30	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				10	3.85	1.202	0.0017	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				40	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-0.973	-0.0014	-2.5 to 2.5	Pass
					3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
					4.43	0.186	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.601	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.587	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				0	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				30	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				40	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				50	3.85	1.202	0.0017	-2.5 to 2.5	Pass
QPSK	707.5	25	0	20	3.27	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	0.887	0.0013	-2.5 to 2.5	Pass
					4.43	0.443	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.629	-0.0009	-2.5 to 2.5	Pass



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					3.85	0.415	0.0006	-2.5 to 2.5	Pass	
					4.43	-0.286	-0.0004	-2.5 to 2.5	Pass	
					-30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
					-20	3.85	0.415	0.0006	-2.5 to 2.5	Pass
					-10	3.85	1.144	0.0016	-2.5 to 2.5	Pass
					0	3.85	1.845	0.0026	-2.5 to 2.5	Pass
					10	3.85	1.030	0.0014	-2.5 to 2.5	Pass
					30	3.85	0.916	0.0013	-2.5 to 2.5	Pass
					40	3.85	1.316	0.0018	-2.5 to 2.5	Pass
					50	3.85	1.316	0.0018	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	1.431	0.0020	-2.5 to 2.5	Pass	
					3.85	1.945	0.0028	-2.5 to 2.5	Pass	
					4.43	0.830	0.0012	-2.5 to 2.5	Pass	
				-30	3.85	1.359	0.0019	-2.5 to 2.5	Pass	
				-20	3.85	1.674	0.0024	-2.5 to 2.5	Pass	
				-10	3.85	1.588	0.0023	-2.5 to 2.5	Pass	
				0	3.85	0.815	0.0012	-2.5 to 2.5	Pass	
				10	3.85	0.358	0.0005	-2.5 to 2.5	Pass	
				30	3.85	0.515	0.0007	-2.5 to 2.5	Pass	
				40	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass	
				50	3.85	0.529	0.0008	-2.5 to 2.5	Pass	
	707.5	25	0	20	3.27	-0.300	-0.0004	-2.5 to 2.5	Pass	
					3.85	0.243	0.0003	-2.5 to 2.5	Pass	
					4.43	-0.658	-0.0009	-2.5 to 2.5	Pass	
				-30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass	
				-20	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass	
				-10	3.85	0.157	0.0002	-2.5 to 2.5	Pass	
				0	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass	
				10	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass	
				30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass	
				40	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass	
				50	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass	
	713.5	25	0	20	3.27	0.858	0.0012	-2.5 to 2.5	Pass	
					3.85	0.672	0.0009	-2.5 to 2.5	Pass	
					4.43	1.431	0.0020	-2.5 to 2.5	Pass	
				-30	3.85	1.345	0.0019	-2.5 to 2.5	Pass	
				-20	3.85	0.114	0.0002	-2.5 to 2.5	Pass	

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				-10	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				0	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.043	0.0001	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	0.315	0.0004	-2.5 to 2.5	Pass
					3.85	0.529	0.0008	-2.5 to 2.5	Pass
					4.43	0.615	0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.672	0.0010	-2.5 to 2.5	Pass
				40	3.85	0.315	0.0004	-2.5 to 2.5	Pass
				50	3.85	0.200	0.0003	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.701	-0.0010	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				0	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.687	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass

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				-20	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-0.014	0.0000	-2.5 to 2.5	Pass
					3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
					4.43	0.443	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.302	-0.0018	-2.5 to 2.5	Pass
					3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.801	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-1.302	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.844	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.458	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-1.945	-0.0027	-2.5 to 2.5	Pass

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				30	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

Band: 12 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.122	/	Pass
		707.5	6	0	1.113	/	Pass
		715.3	6	0	1.126	/	Pass
	16QAM	699.7	6	0	1.126	/	Pass
		707.5	6	0	1.129	/	Pass
		715.3	6	0	1.123	/	Pass
3	QPSK	700.5	15	0	2.753	/	Pass
		707.5	15	0	2.754	/	Pass
		714.5	15	0	2.753	/	Pass
	16QAM	700.5	15	0	2.735	/	Pass
		707.5	15	0	2.750	/	Pass
		714.5	15	0	2.738	/	Pass
5	QPSK	701.5	25	0	4.568	/	Pass
		707.5	25	0	4.569	/	Pass
		713.5	25	0	4.557	/	Pass
	16QAM	701.5	25	0	4.562	/	Pass
		707.5	25	0	4.566	/	Pass
		713.5	25	0	4.570	/	Pass
10	QPSK	704	50	0	9.054	/	Pass
		707.5	50	0	9.080	/	Pass
		711	50	0	9.080	/	Pass
	16QAM	704	50	0	9.039	/	Pass
		707.5	50	0	9.072	/	Pass
		711	50	0	9.093	/	Pass

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3.1.2 Band12_XDB

Band: 12 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.402	/	Pass
		707.5	6	0	1.408	/	Pass
		715.3	6	0	1.407	/	Pass
	16QAM	699.7	6	0	1.416	/	Pass
		707.5	6	0	1.431	/	Pass
		715.3	6	0	1.411	/	Pass
3	QPSK	700.5	15	0	3.140	/	Pass
		707.5	15	0	3.095	/	Pass
		714.5	15	0	3.166	/	Pass
	16QAM	700.5	15	0	3.144	/	Pass
		707.5	15	0	3.105	/	Pass
		714.5	15	0	3.133	/	Pass
5	QPSK	701.5	25	0	5.289	/	Pass
		707.5	25	0	5.237	/	Pass
		713.5	25	0	5.231	/	Pass
	16QAM	701.5	25	0	5.178	/	Pass
		707.5	25	0	5.328	/	Pass
		713.5	25	0	5.331	/	Pass
10	QPSK	704	50	0	10.205	/	Pass
		707.5	50	0	10.176	/	Pass
		711	50	0	10.212	/	Pass
	16QAM	704	50	0	10.094	/	Pass
		707.5	50	0	10.830	/	Pass
		711	50	0	10.226	/	Pass

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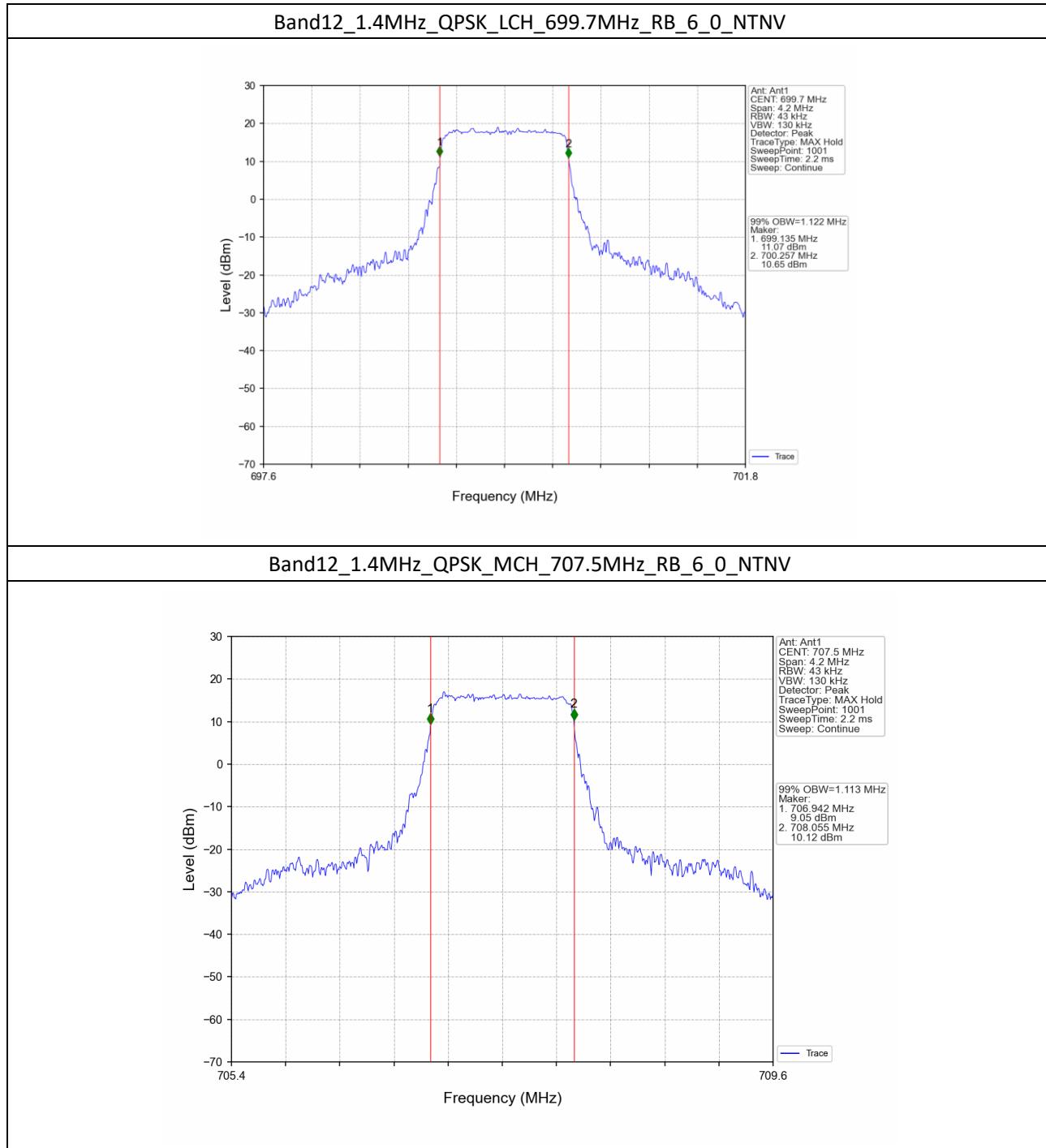
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3.2 Test Graph

3.2.1 Band12_OBW

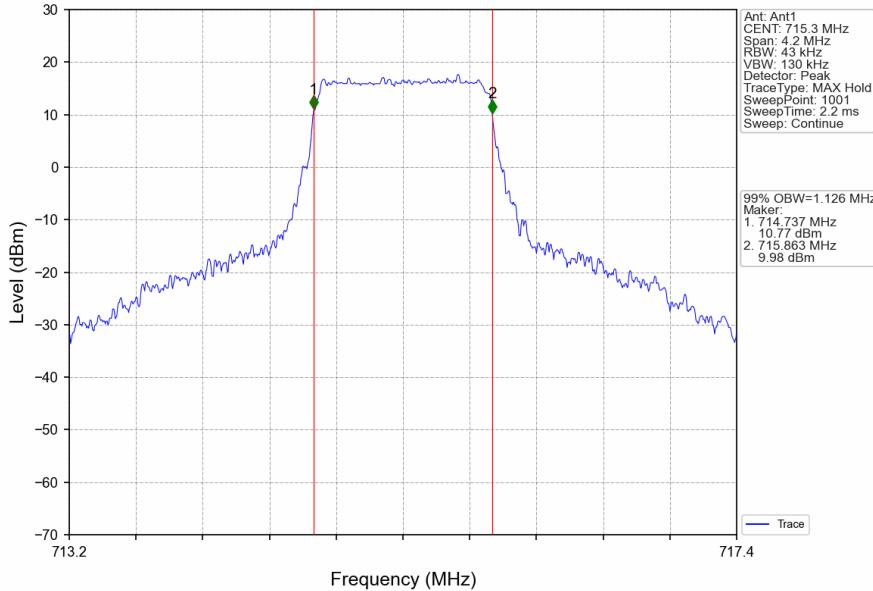


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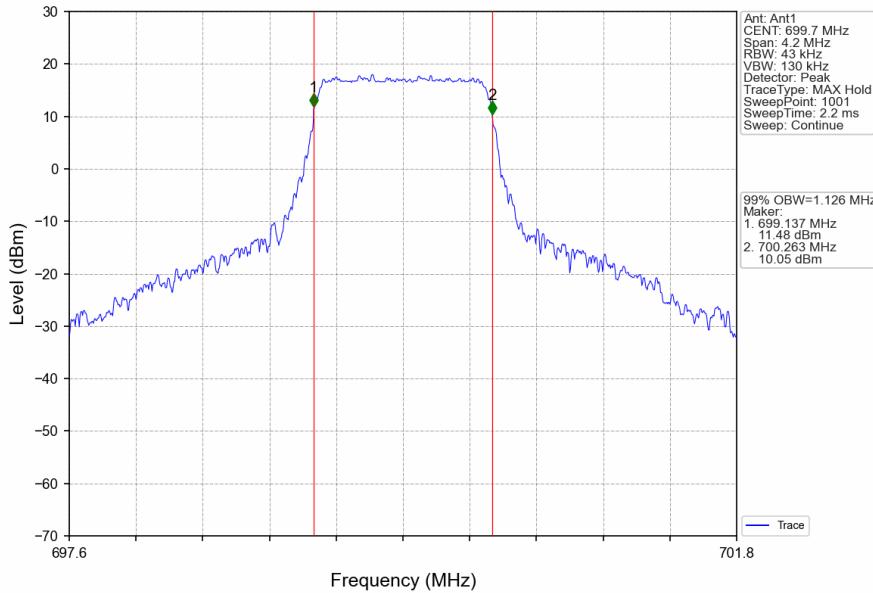
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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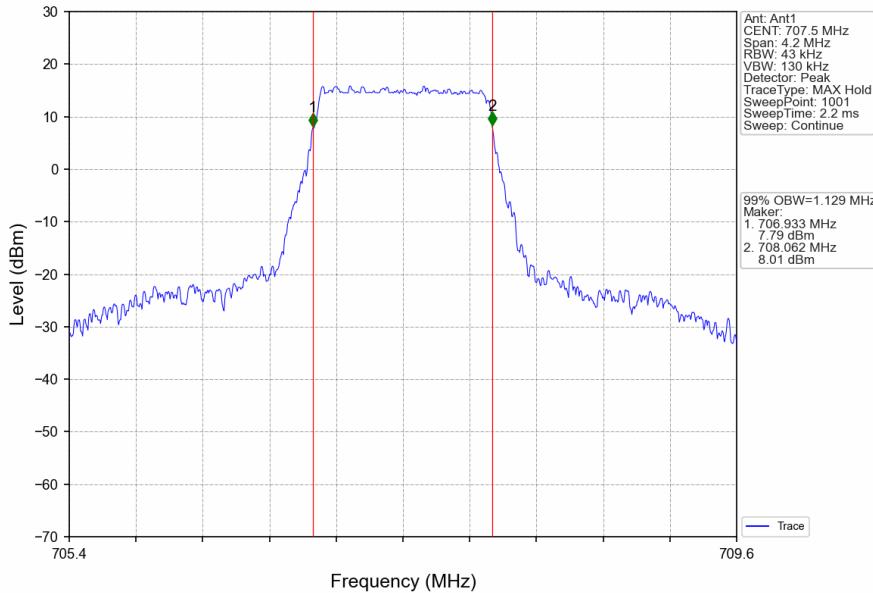
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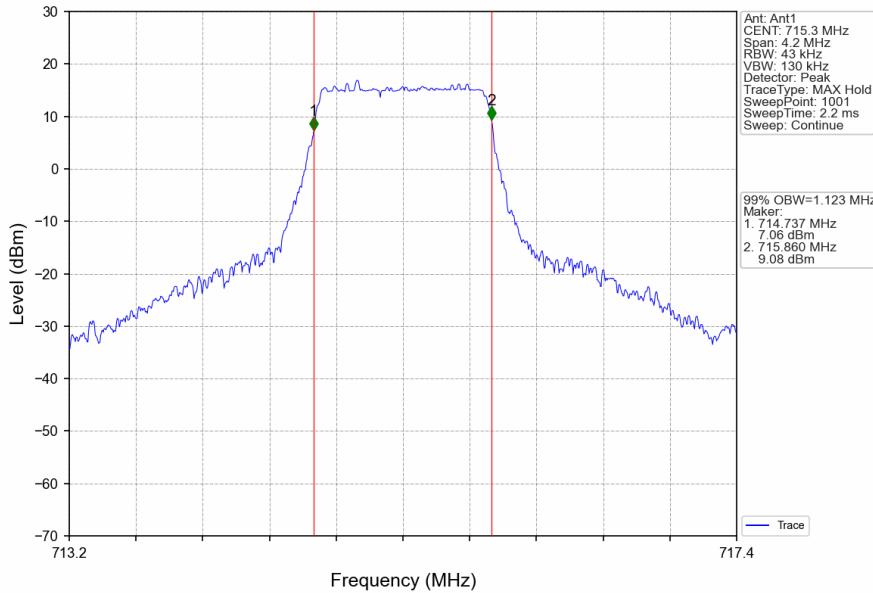
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Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



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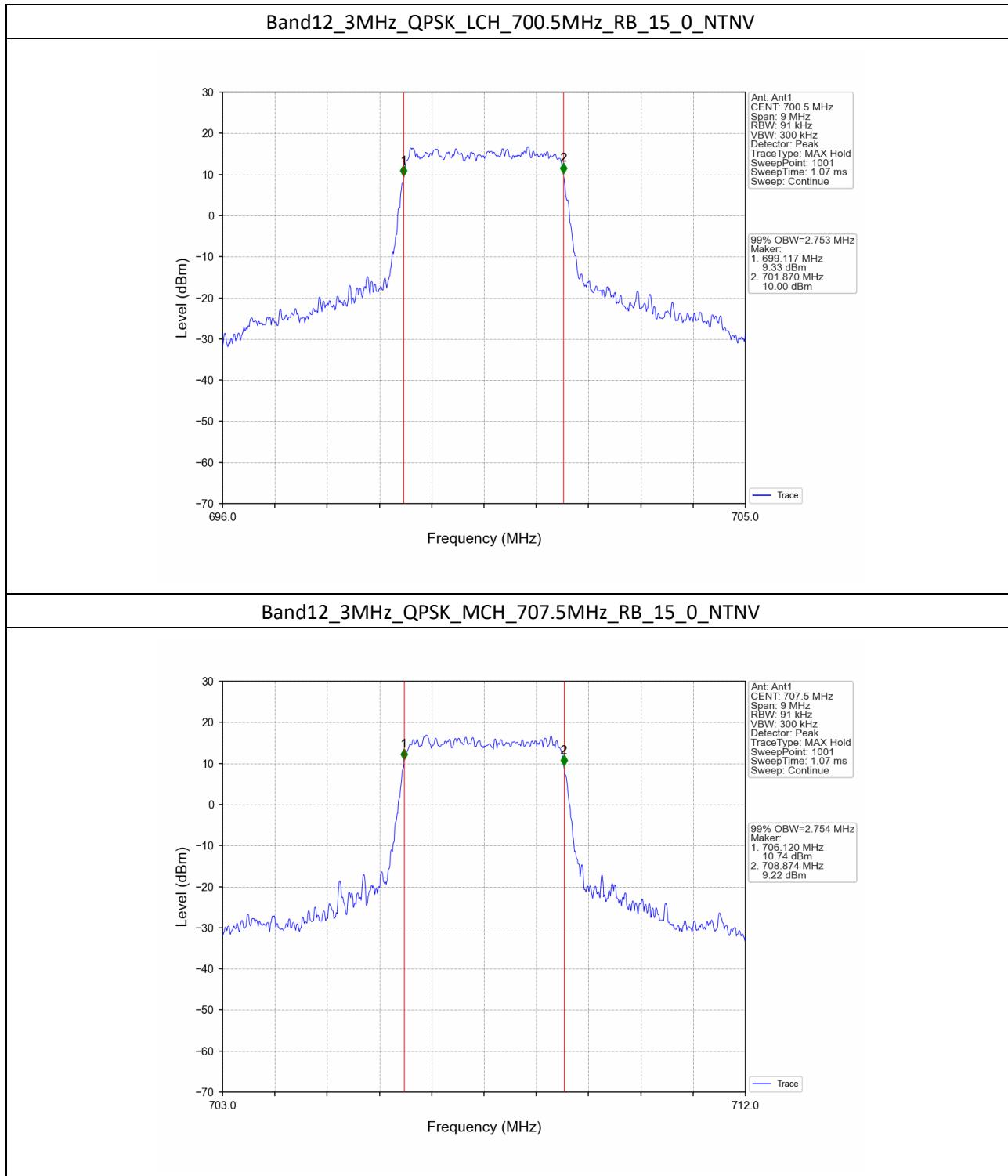
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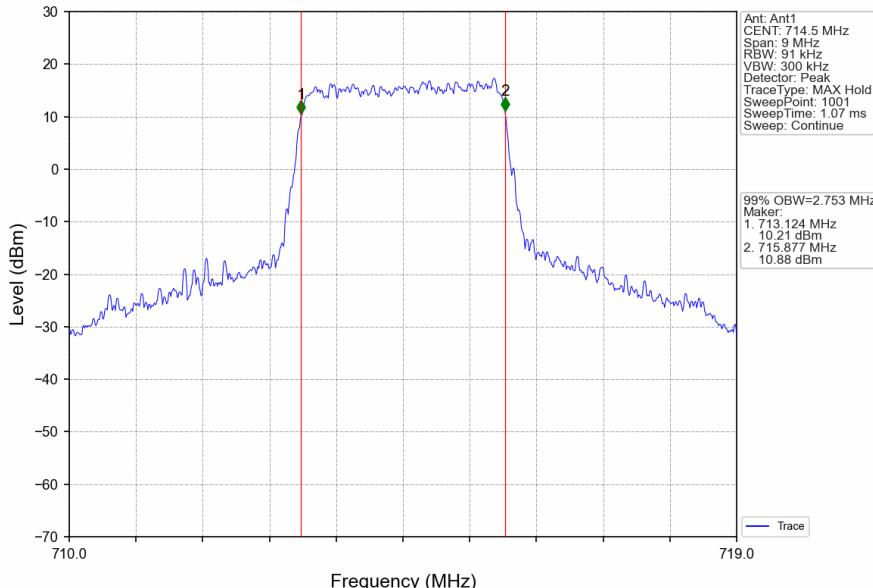
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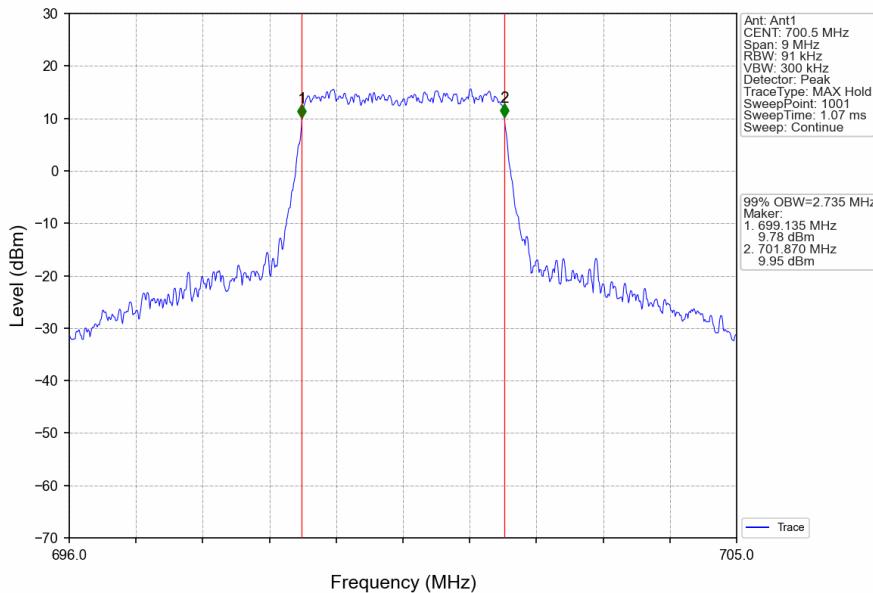
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



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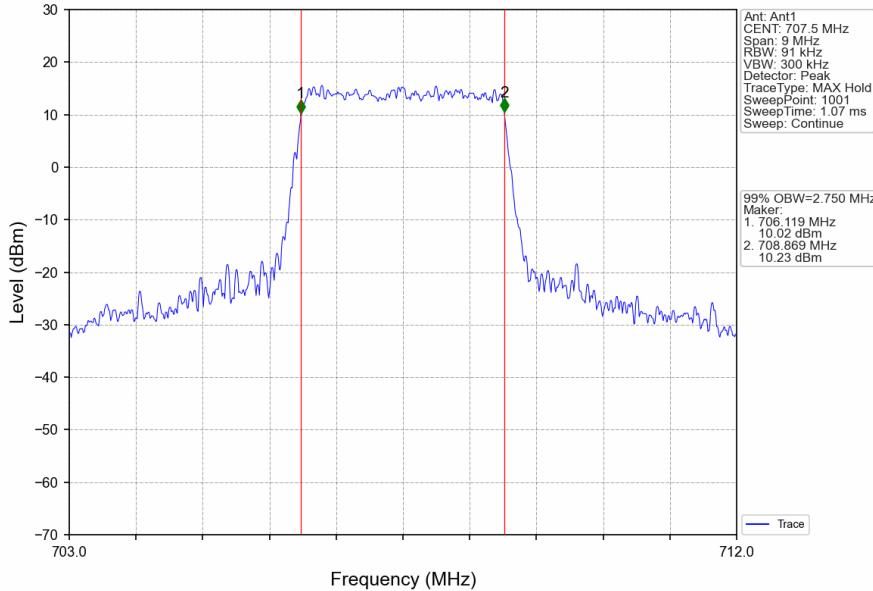
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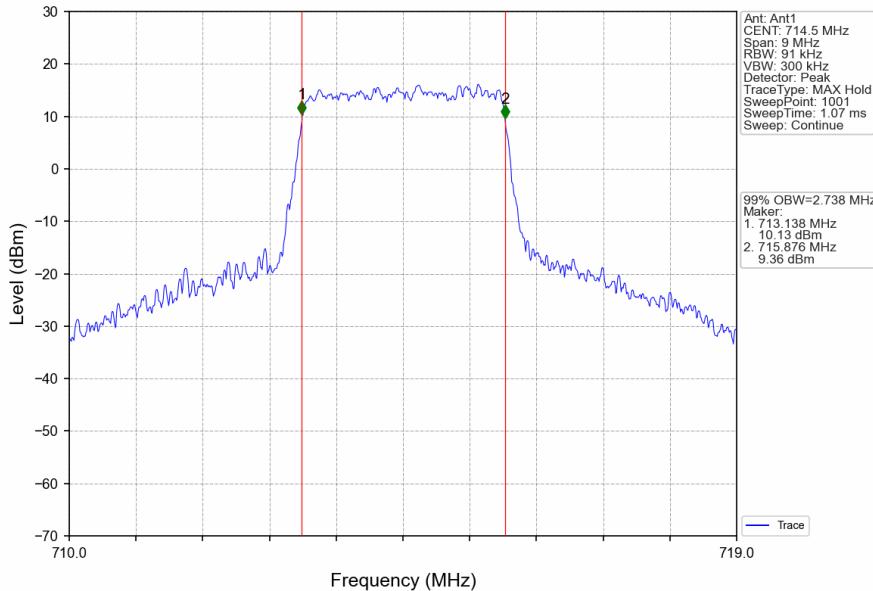
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

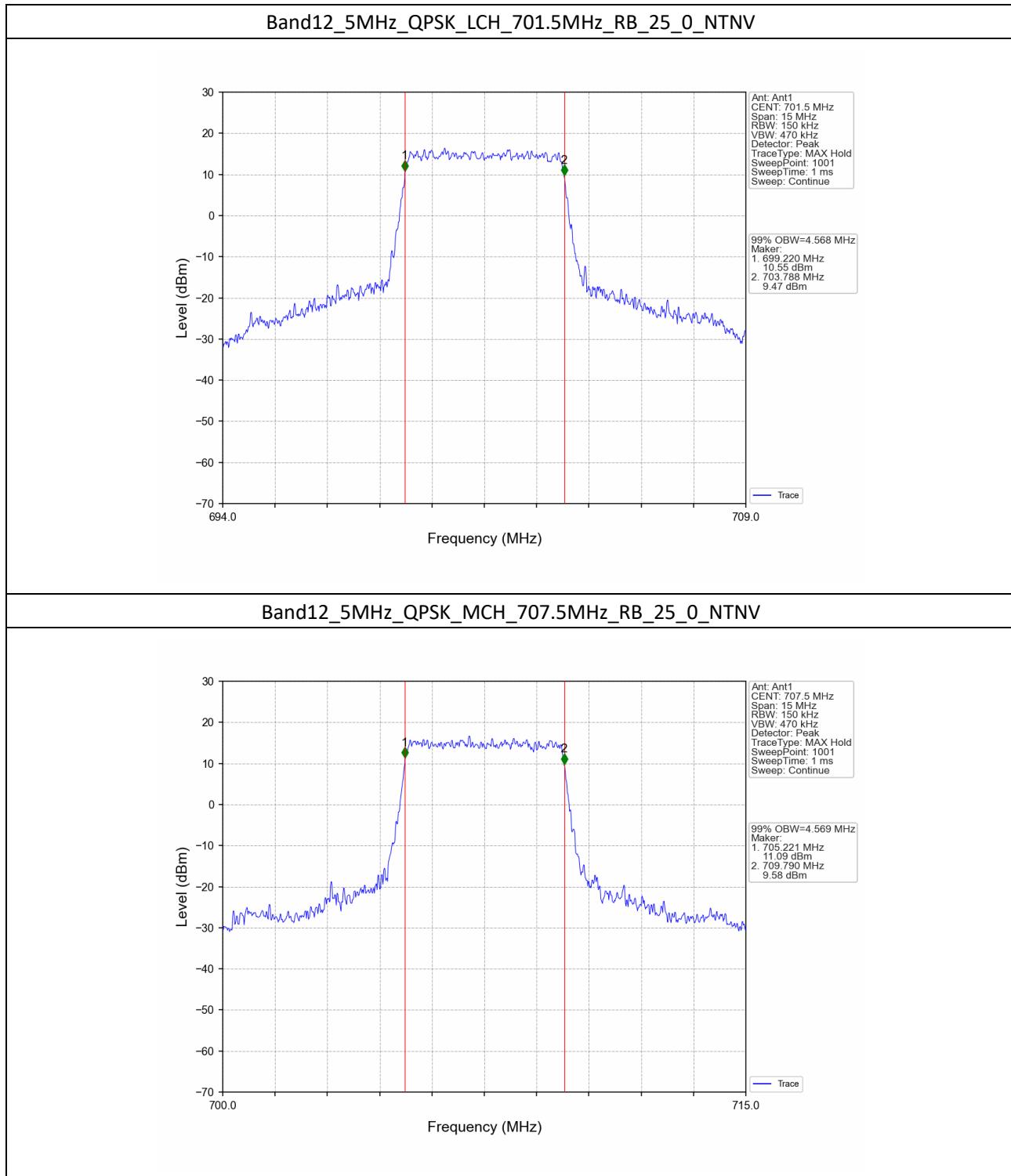


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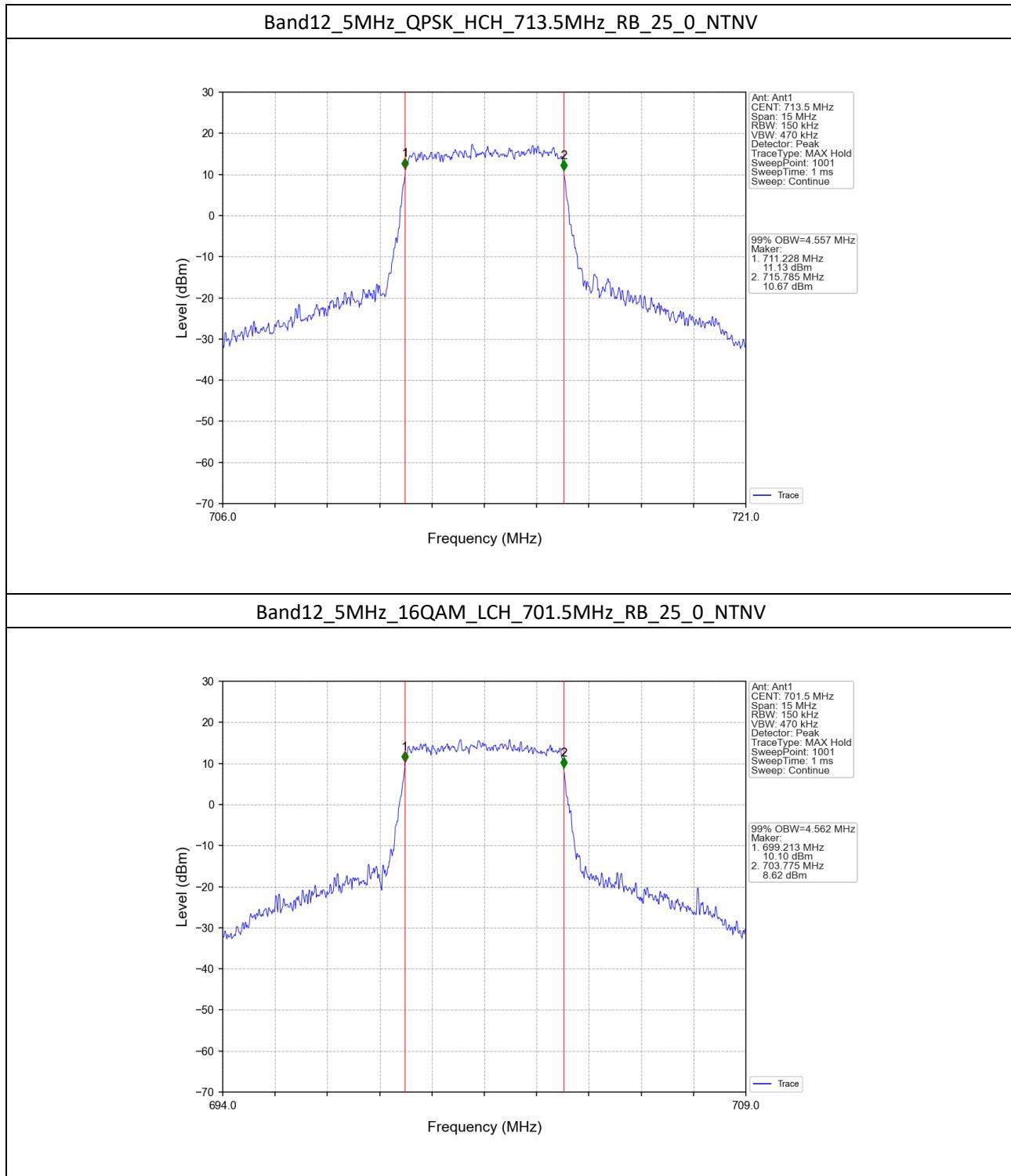


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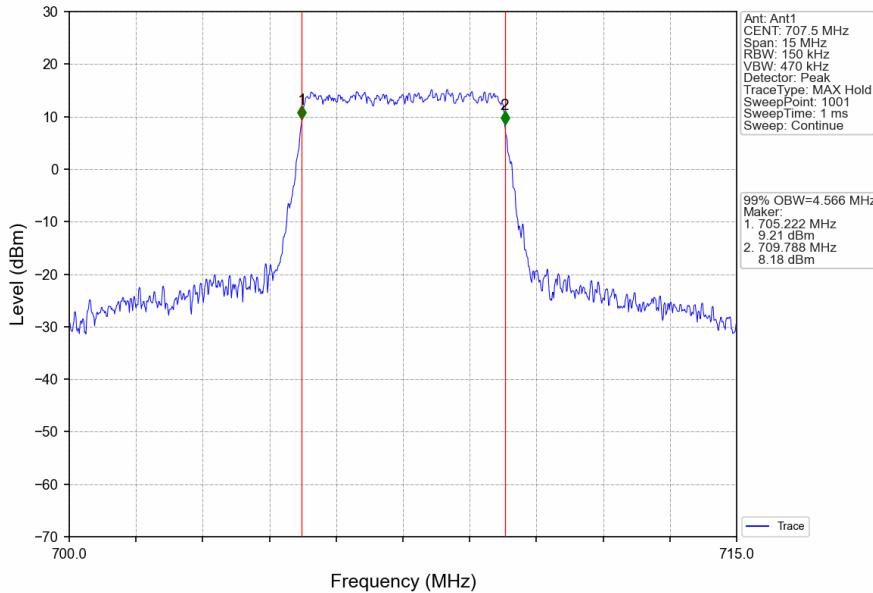
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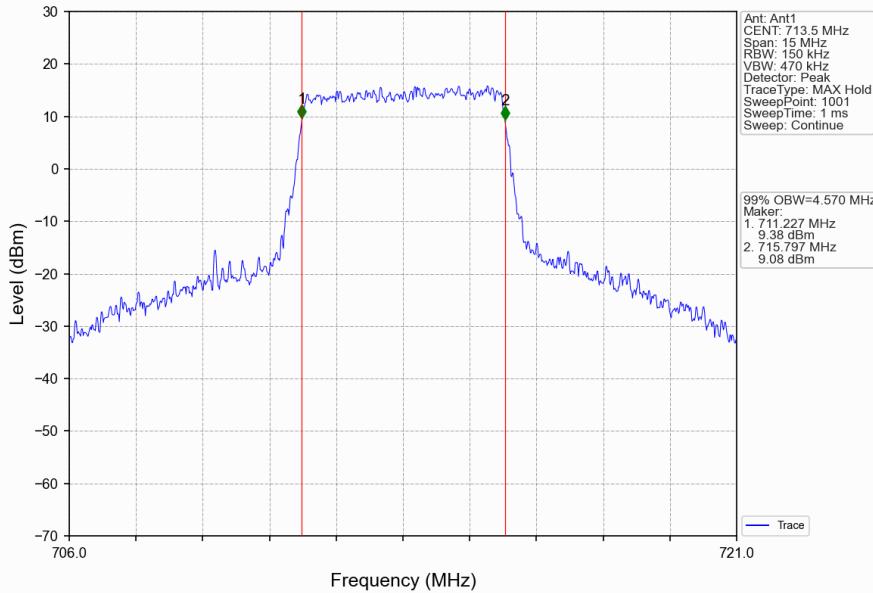
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



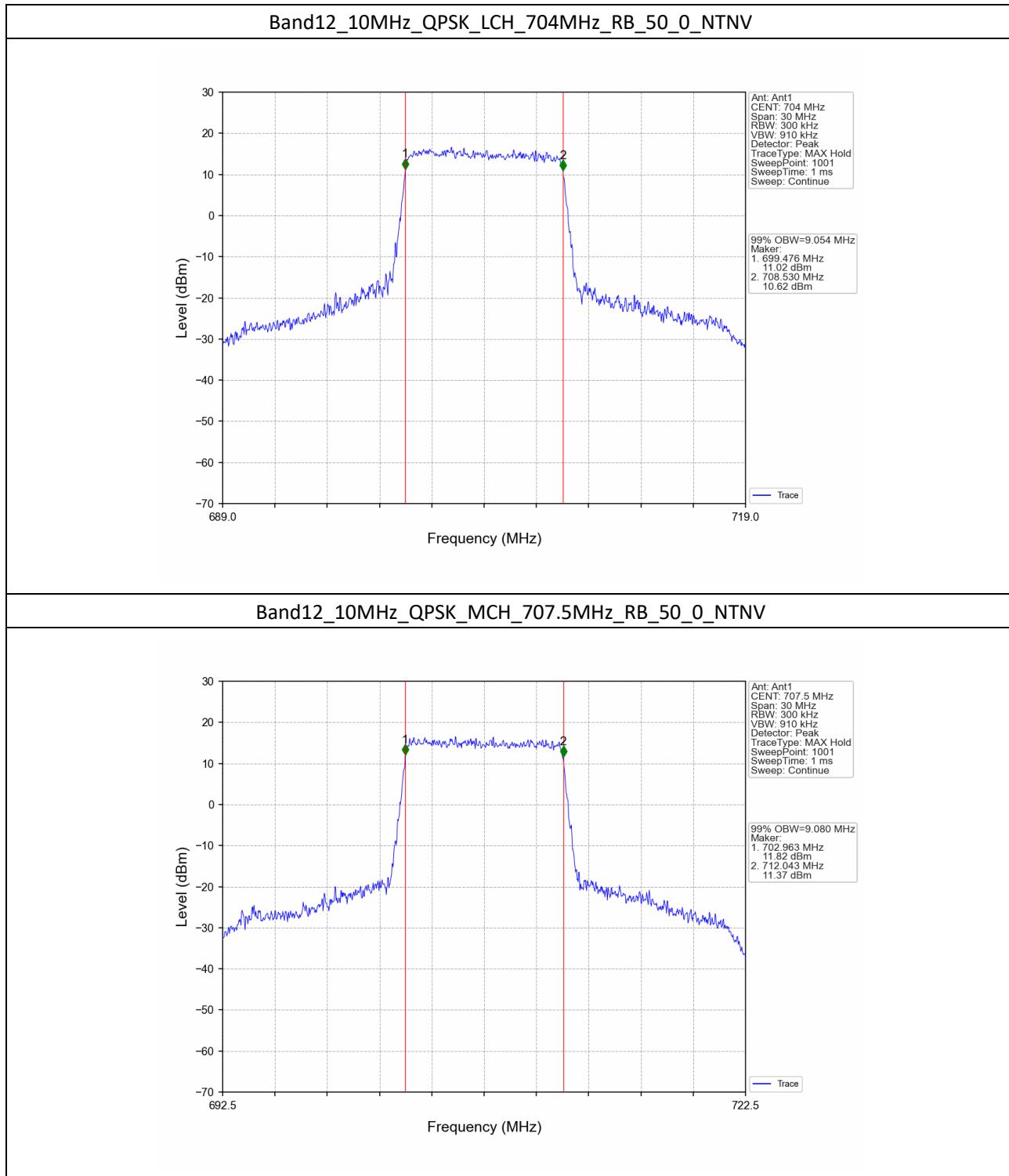
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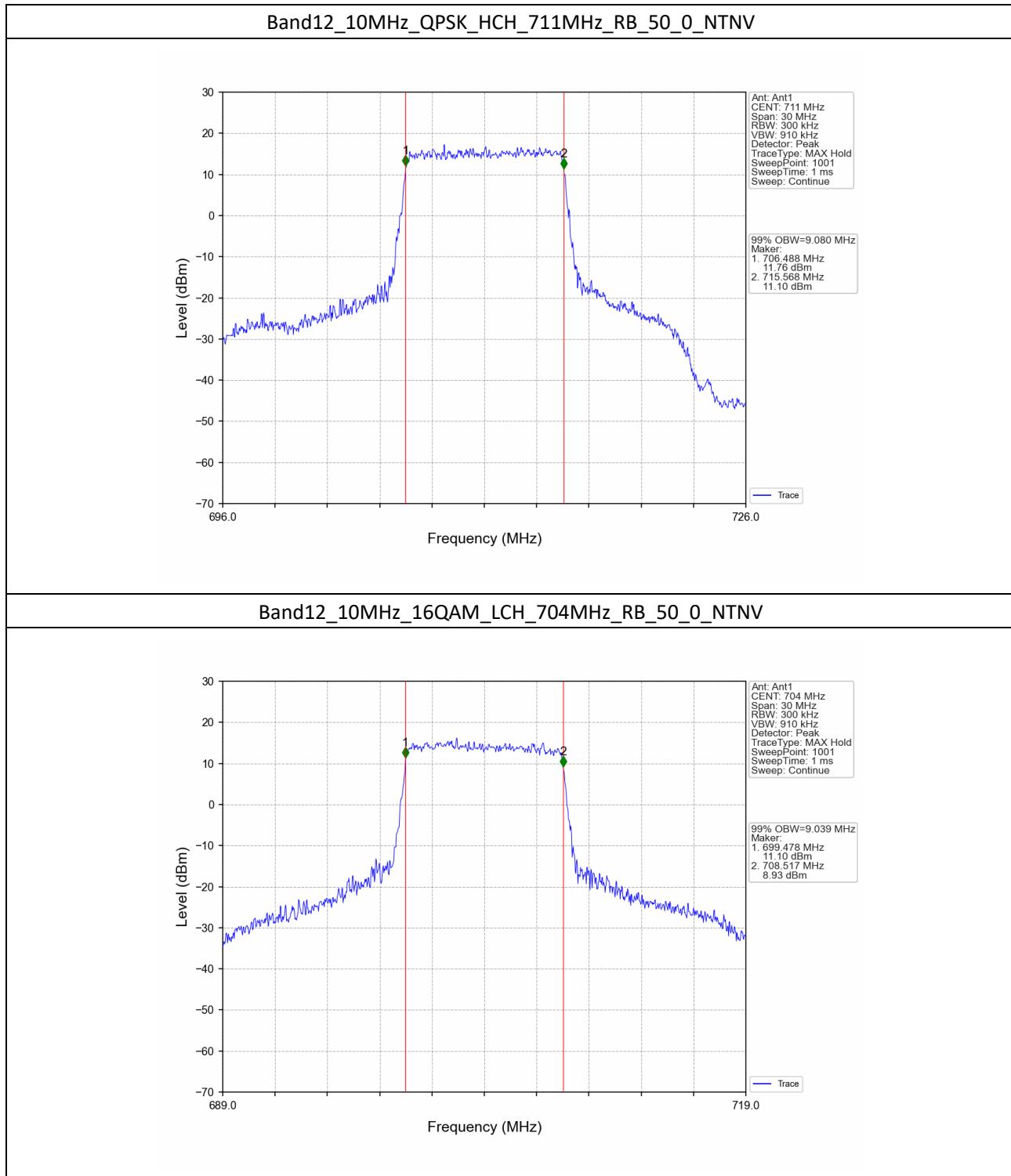


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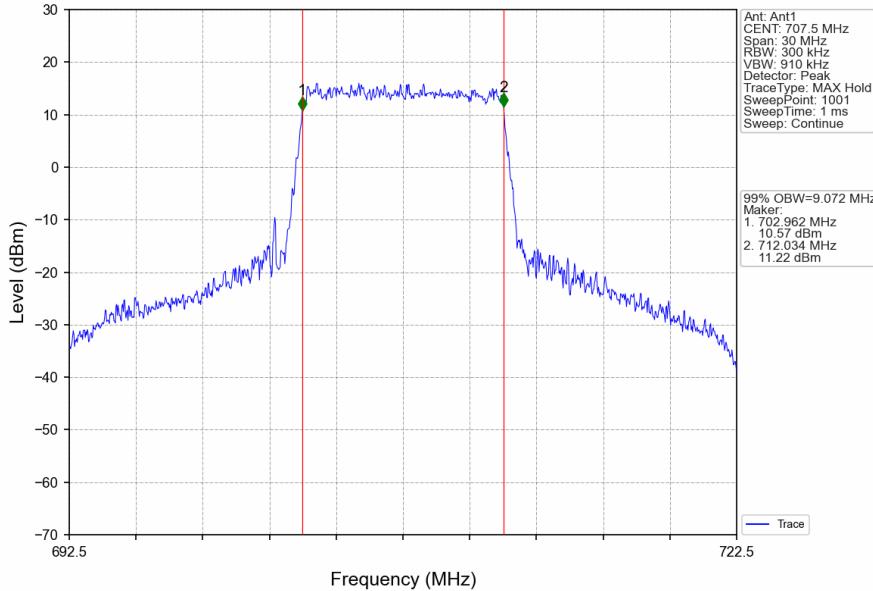
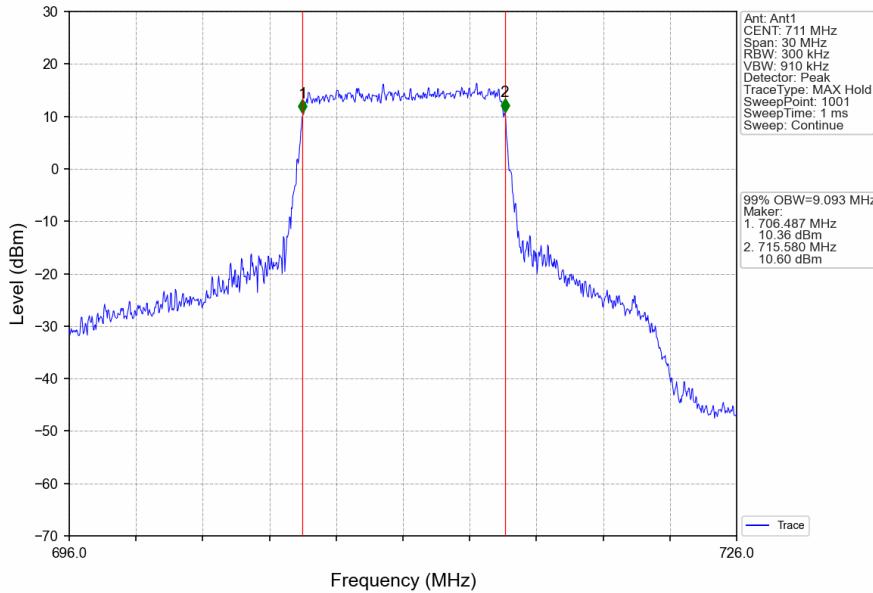
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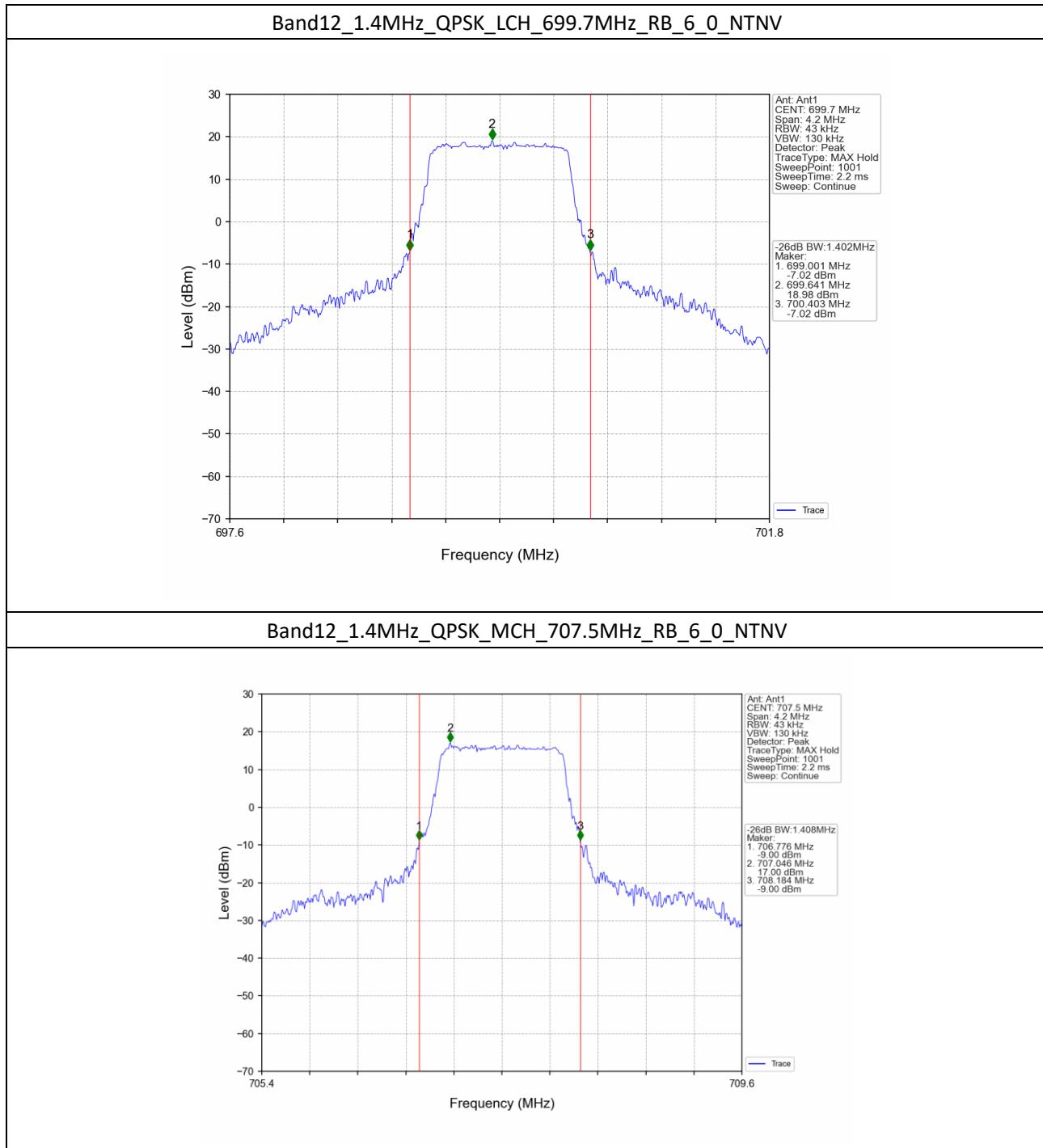
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV**Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV**

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3.2.2 Band12_XDB



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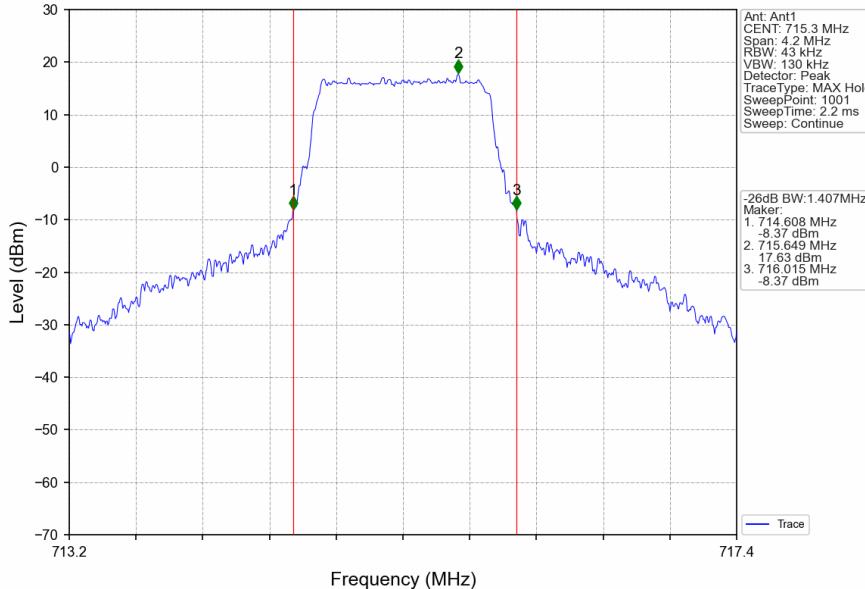
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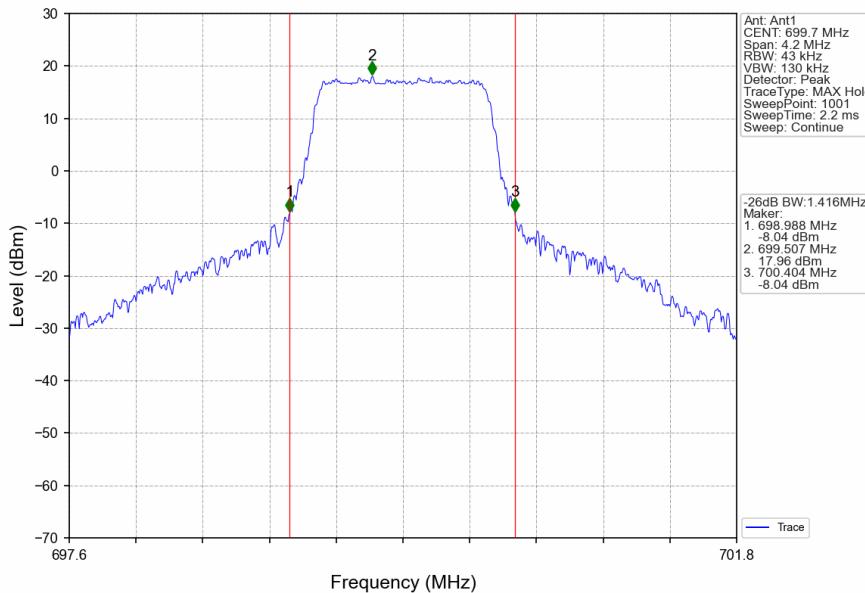
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

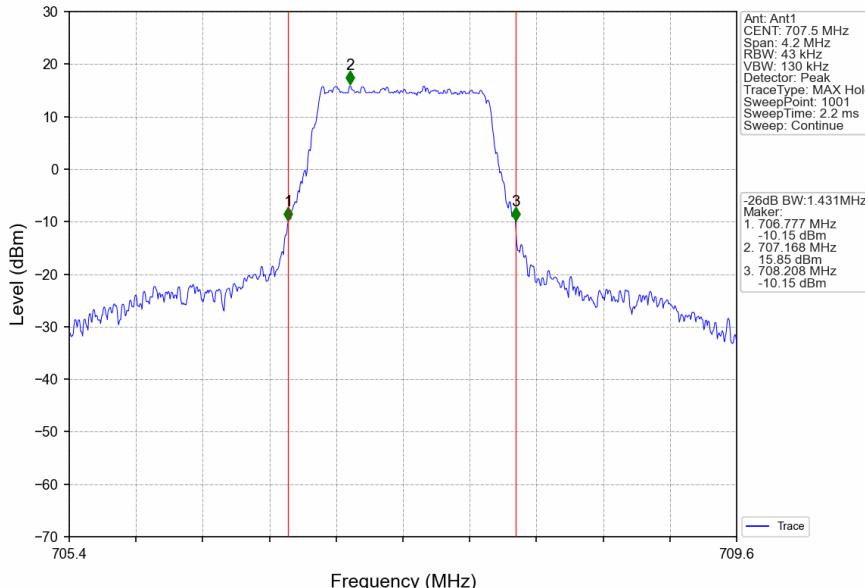


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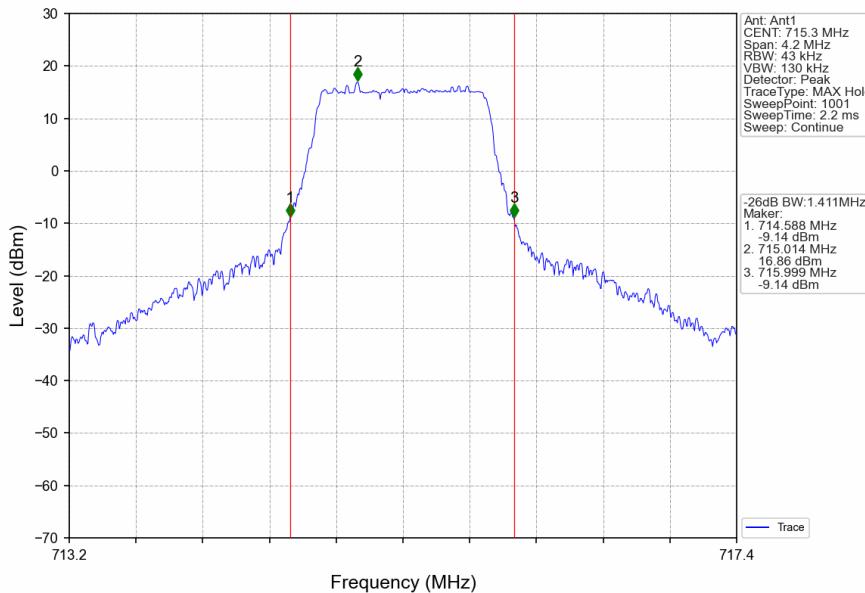
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Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



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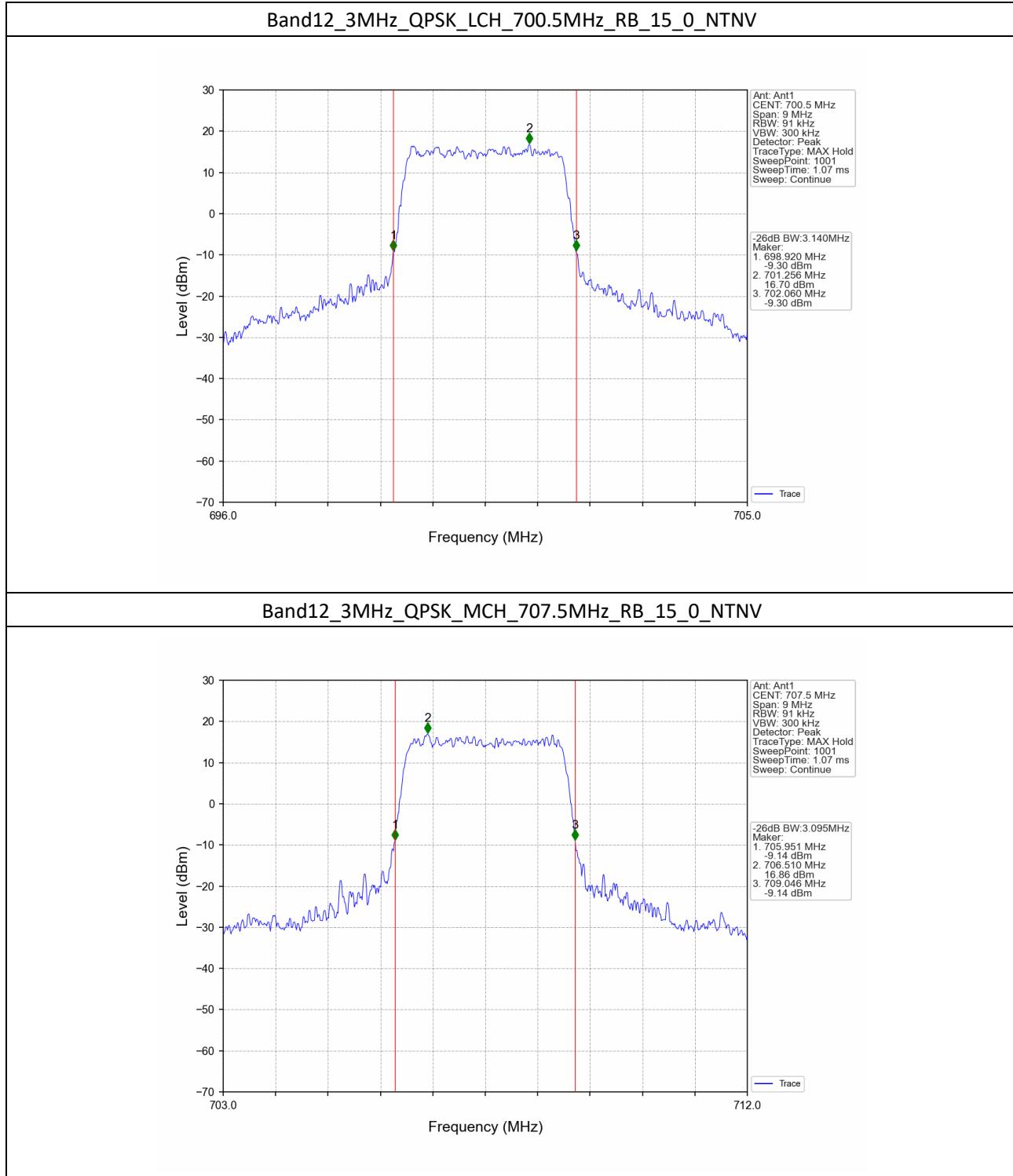
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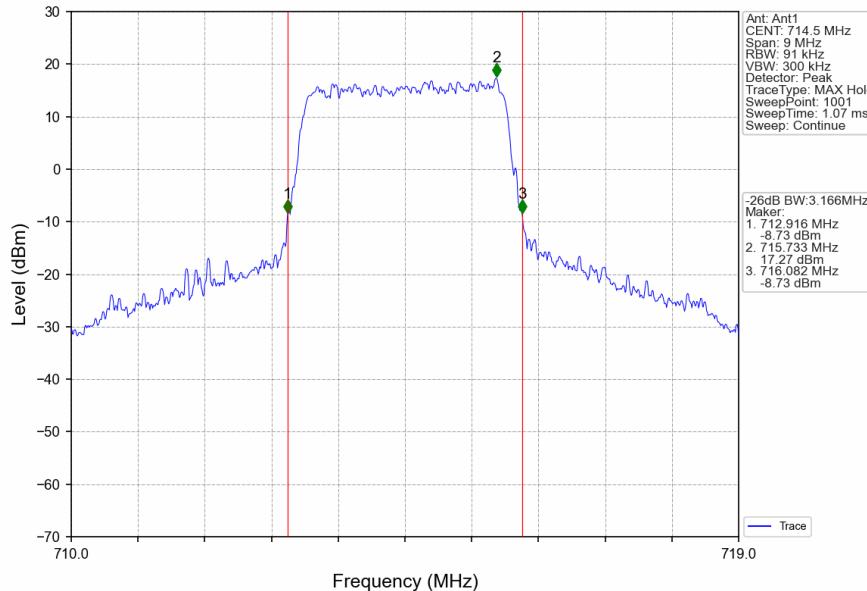
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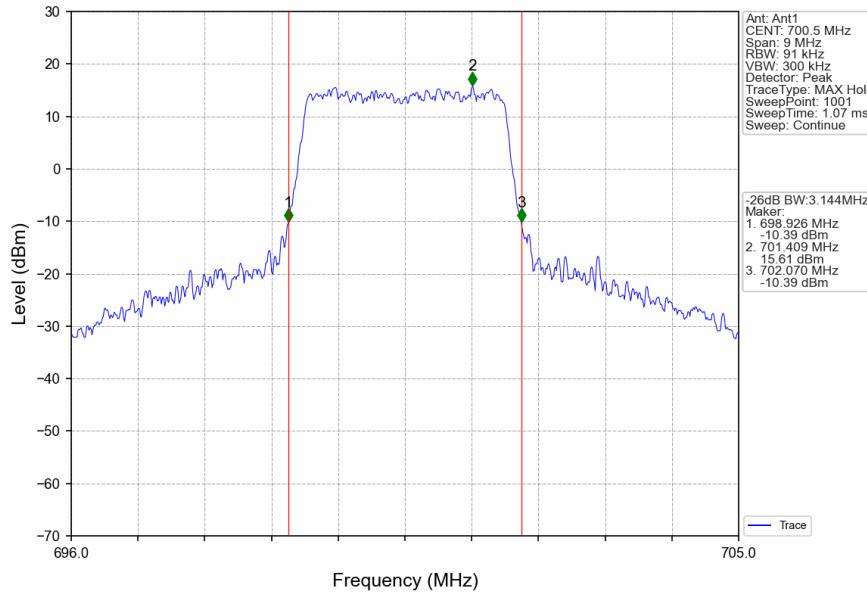
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



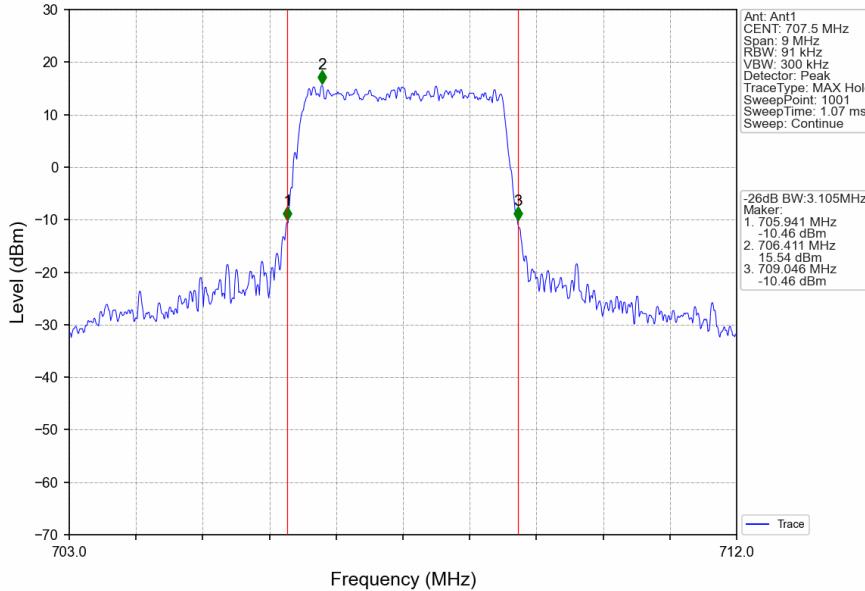
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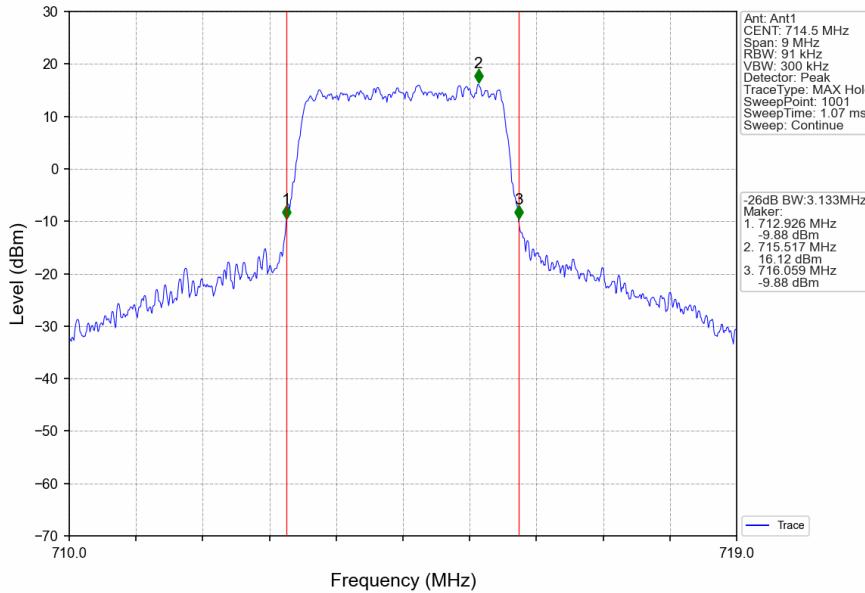
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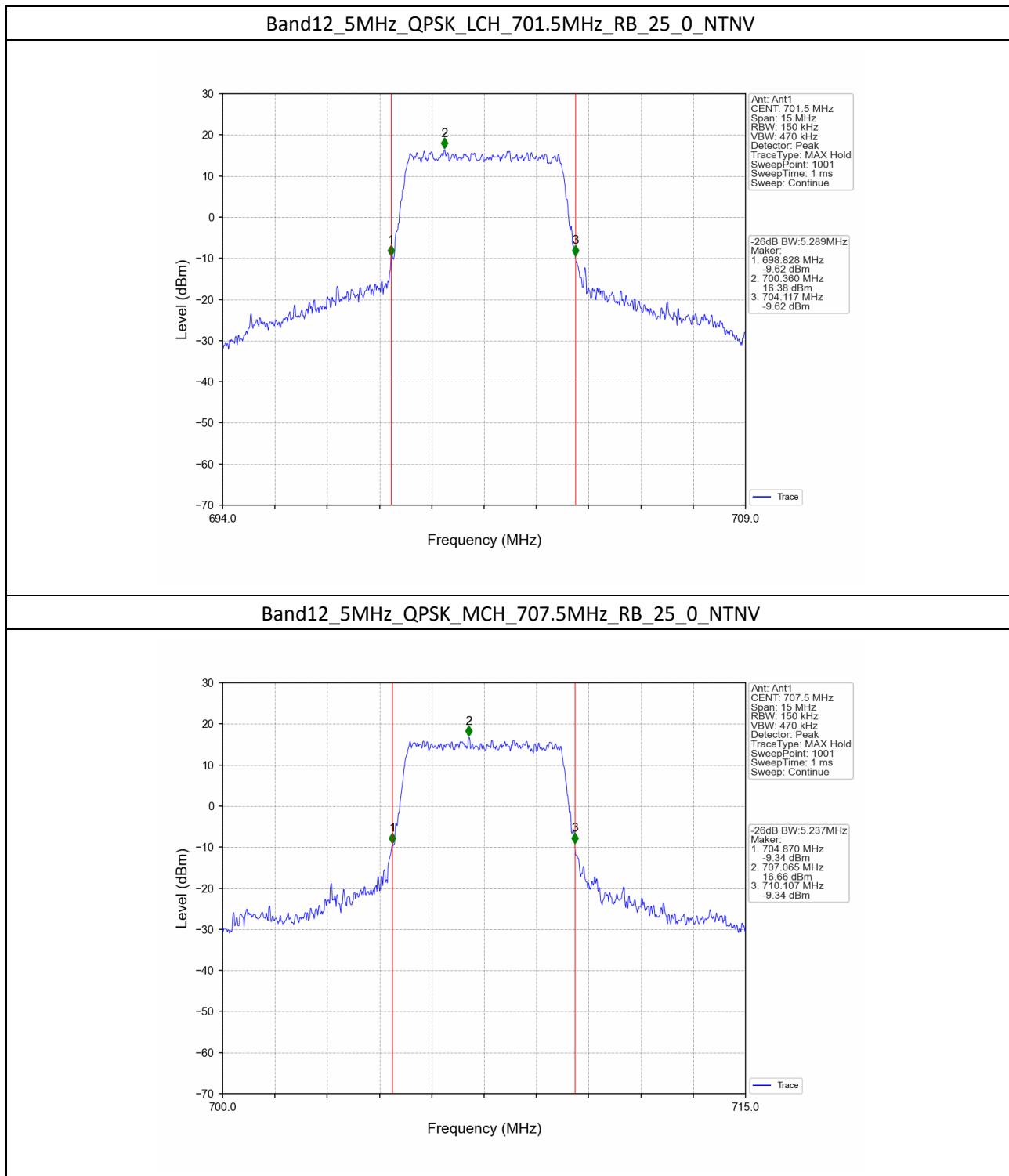
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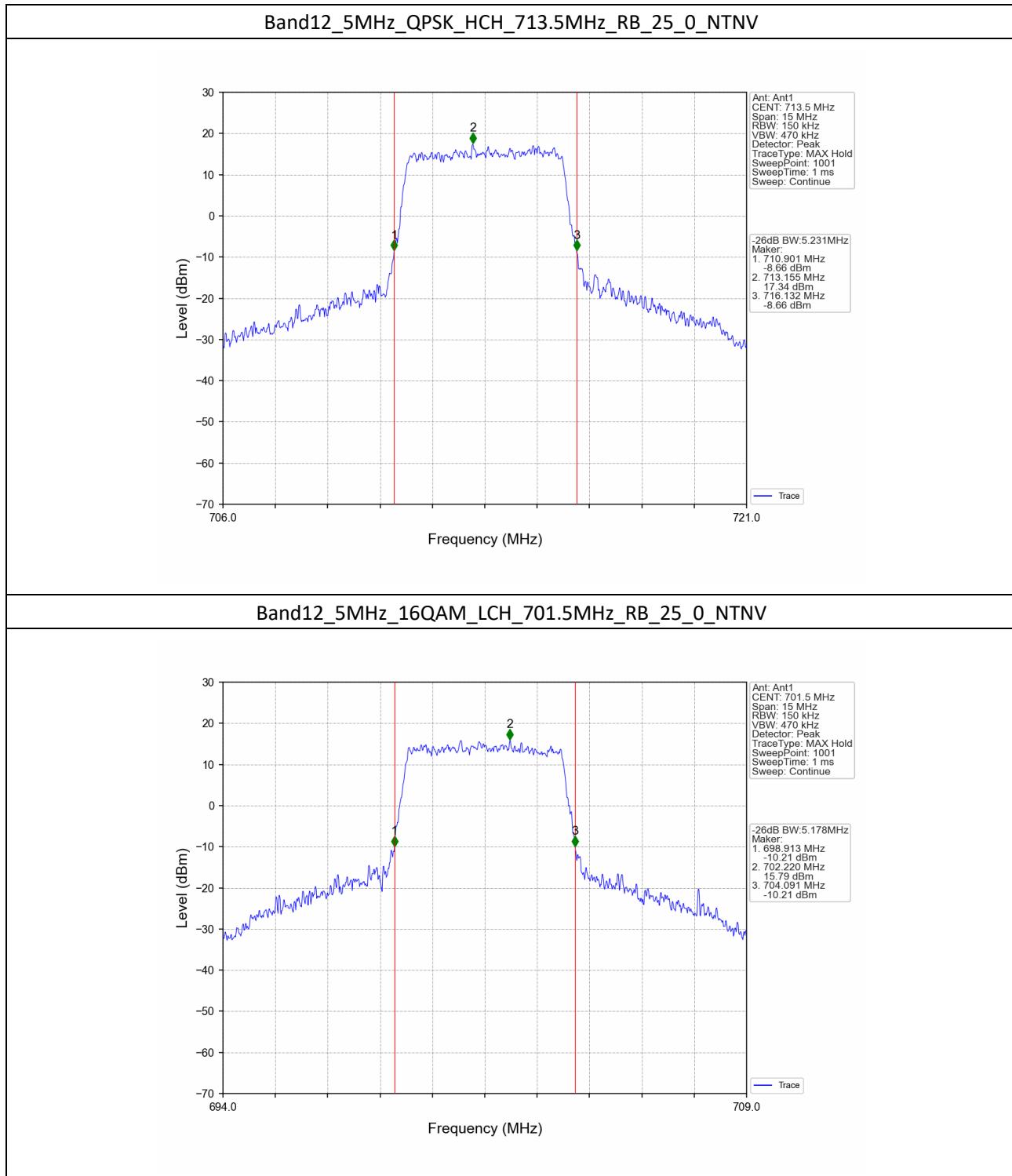
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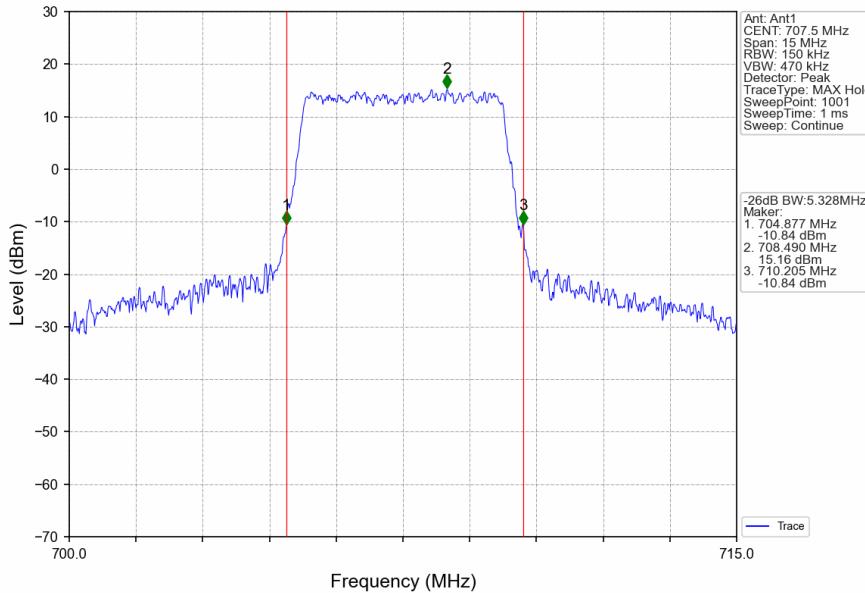
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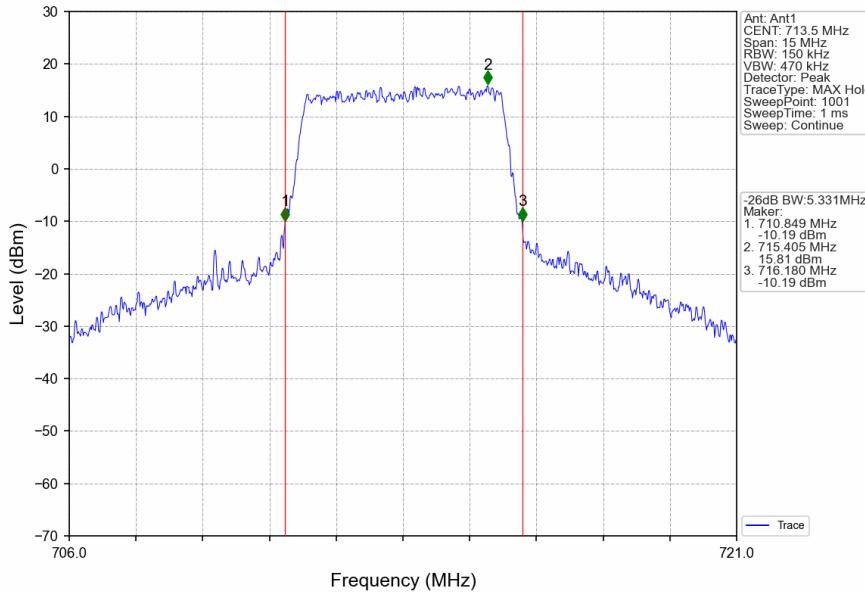
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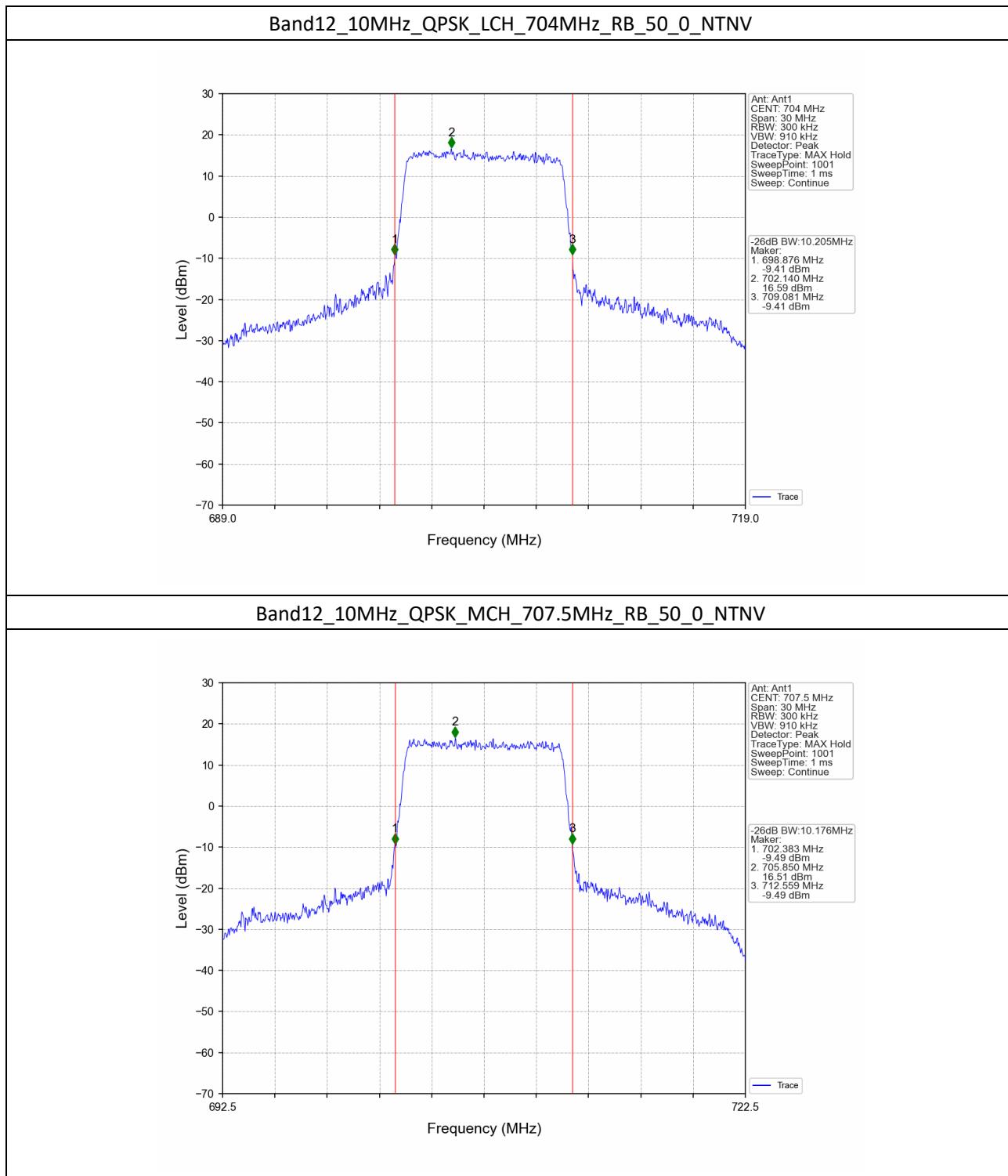


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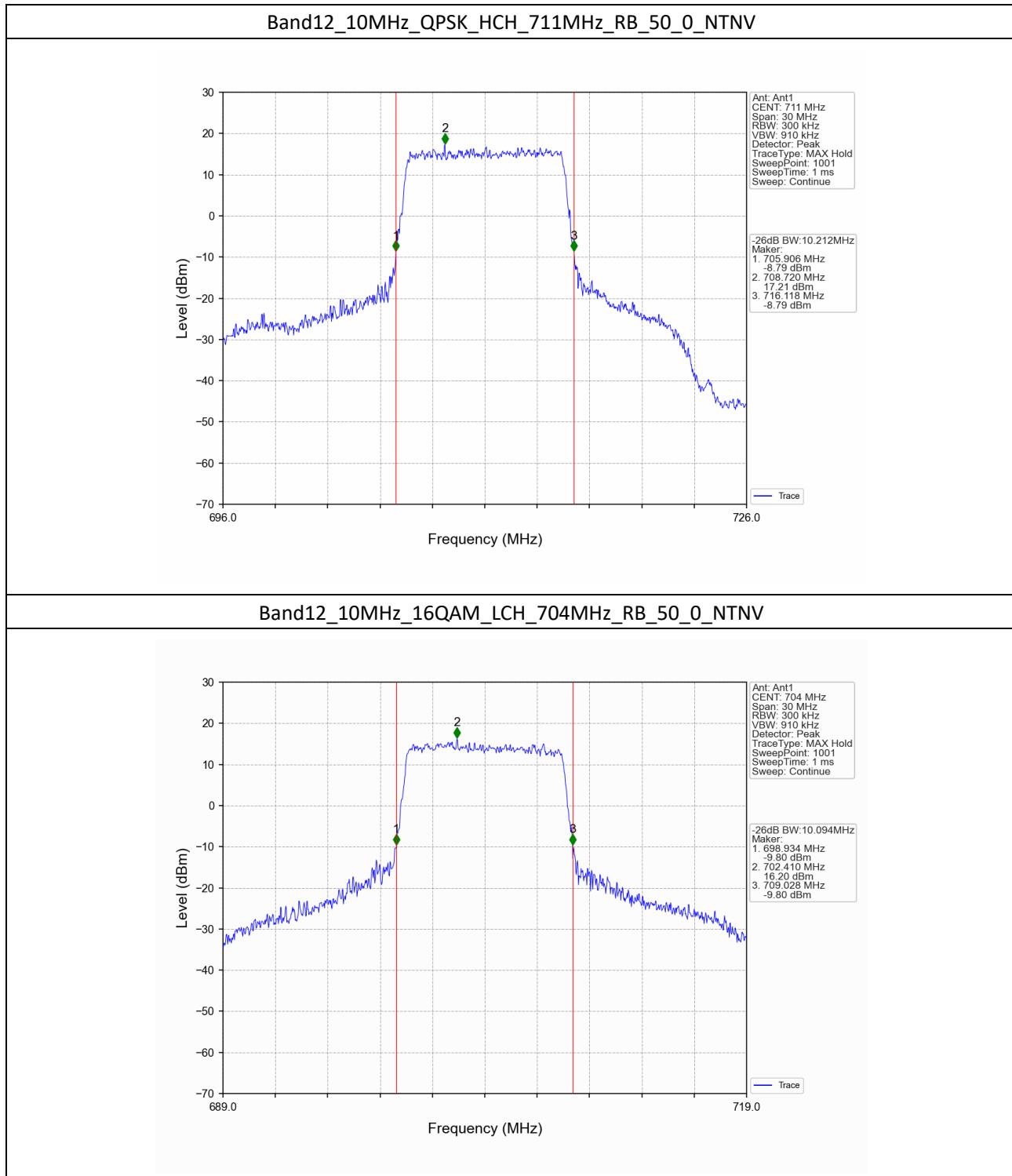
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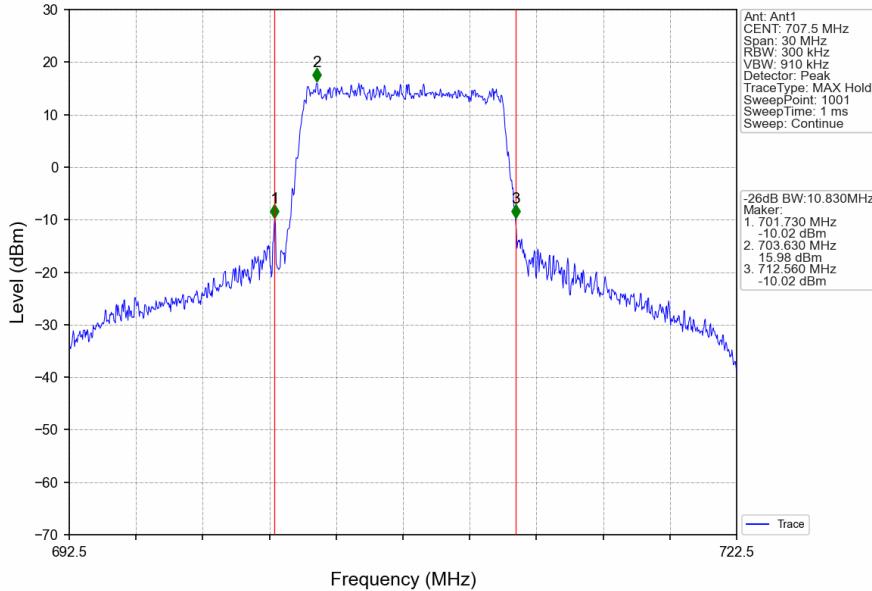
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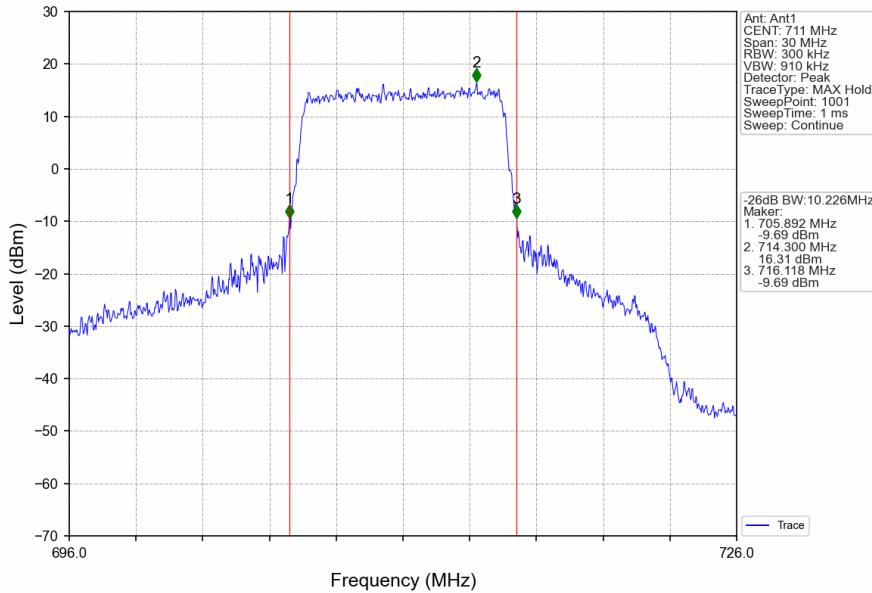
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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4. Peak-Average Ratio

4.1 Test Result

4.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.20	<=13	Pass
	707.5	6	0	5.04	<=13	Pass
	715.3	6	0	4.23	<=13	Pass
16QAM	699.7	6	0	5.16	<=13	Pass
	707.5	6	0	5.98	<=13	Pass
	715.3	6	0	5.23	<=13	Pass

4.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.46	<=13	Pass
	707.5	15	0	5.15	<=13	Pass
	714.5	15	0	4.51	<=13	Pass
16QAM	700.5	15	0	5.34	<=13	Pass
	707.5	15	0	6.24	<=13	Pass
	714.5	15	0	5.42	<=13	Pass

4.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	4.77	<=13	Pass
	707.5	25	0	5.43	<=13	Pass
	713.5	25	0	4.96	<=13	Pass
16QAM	701.5	25	0	5.61	<=13	Pass

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	707.5	25	0	6.28	<=13	Pass
	713.5	25	0	5.82	<=13	Pass

4.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.02	<=13	Pass
	707.5	50	0	5.34	<=13	Pass
	711	50	0	5.29	<=13	Pass
16QAM	704	50	0	5.93	<=13	Pass
	707.5	50	0	6.17	<=13	Pass
	711	50	0	6.13	<=13	Pass



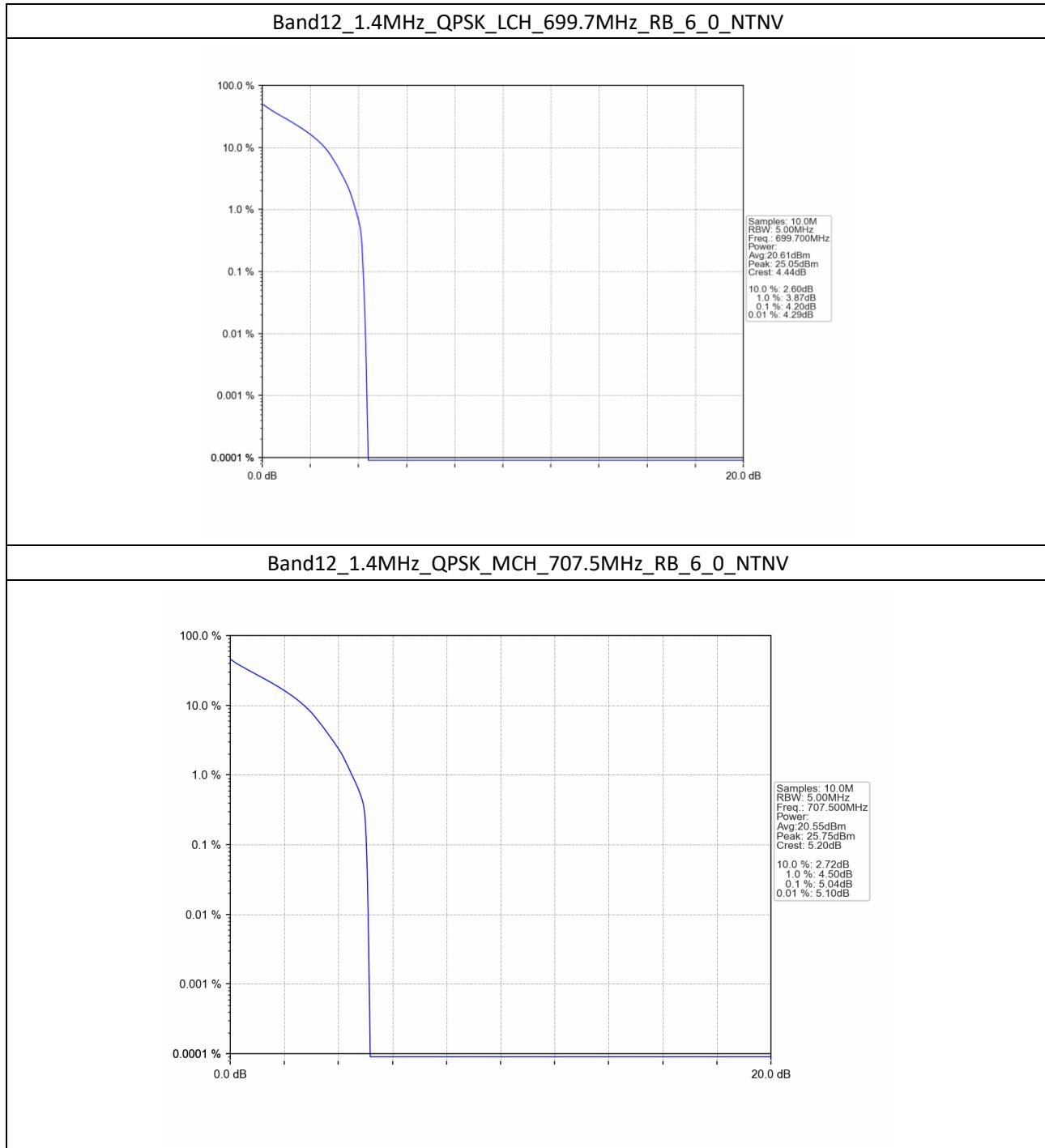
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4.2 Test Graph

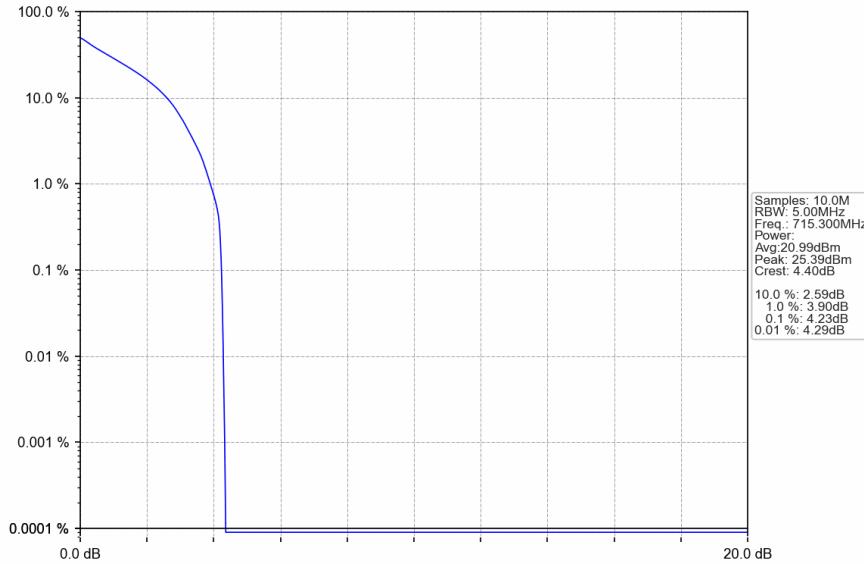
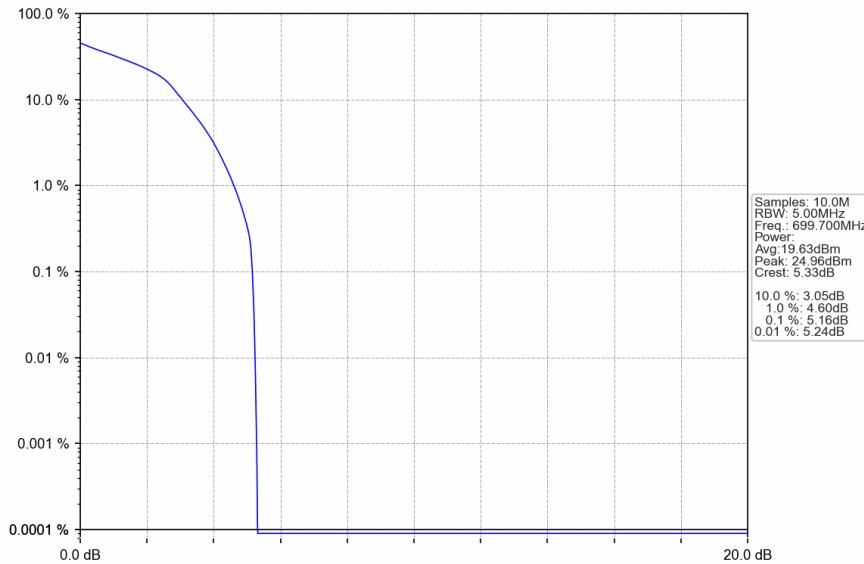
4.2.1 B12_1.4MHz



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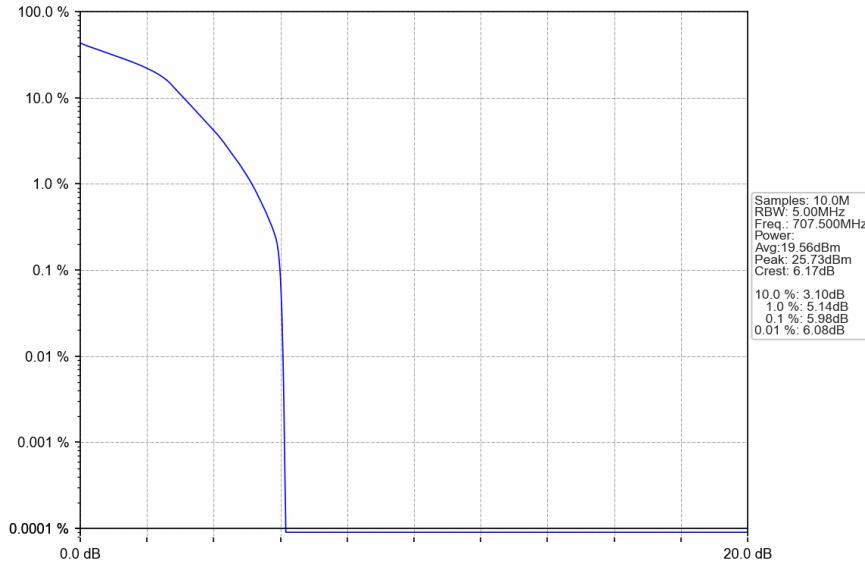
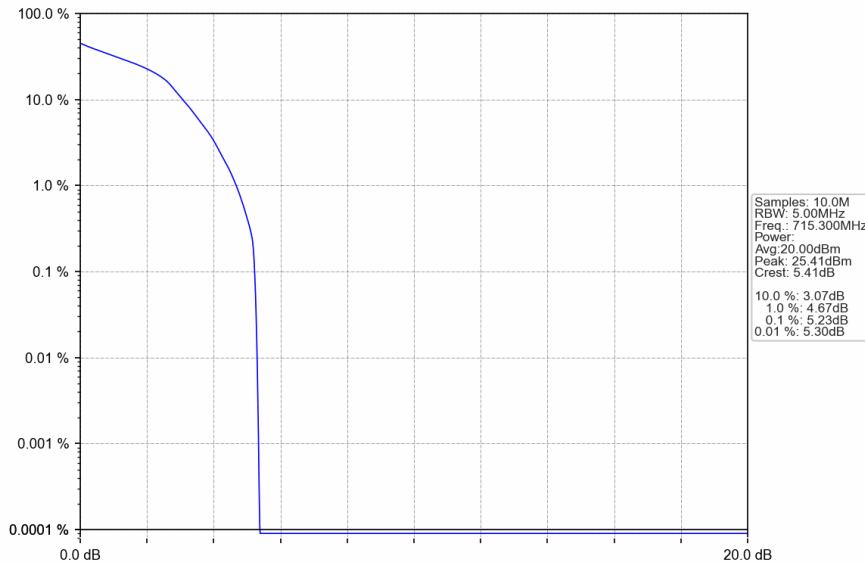
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV**Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV**

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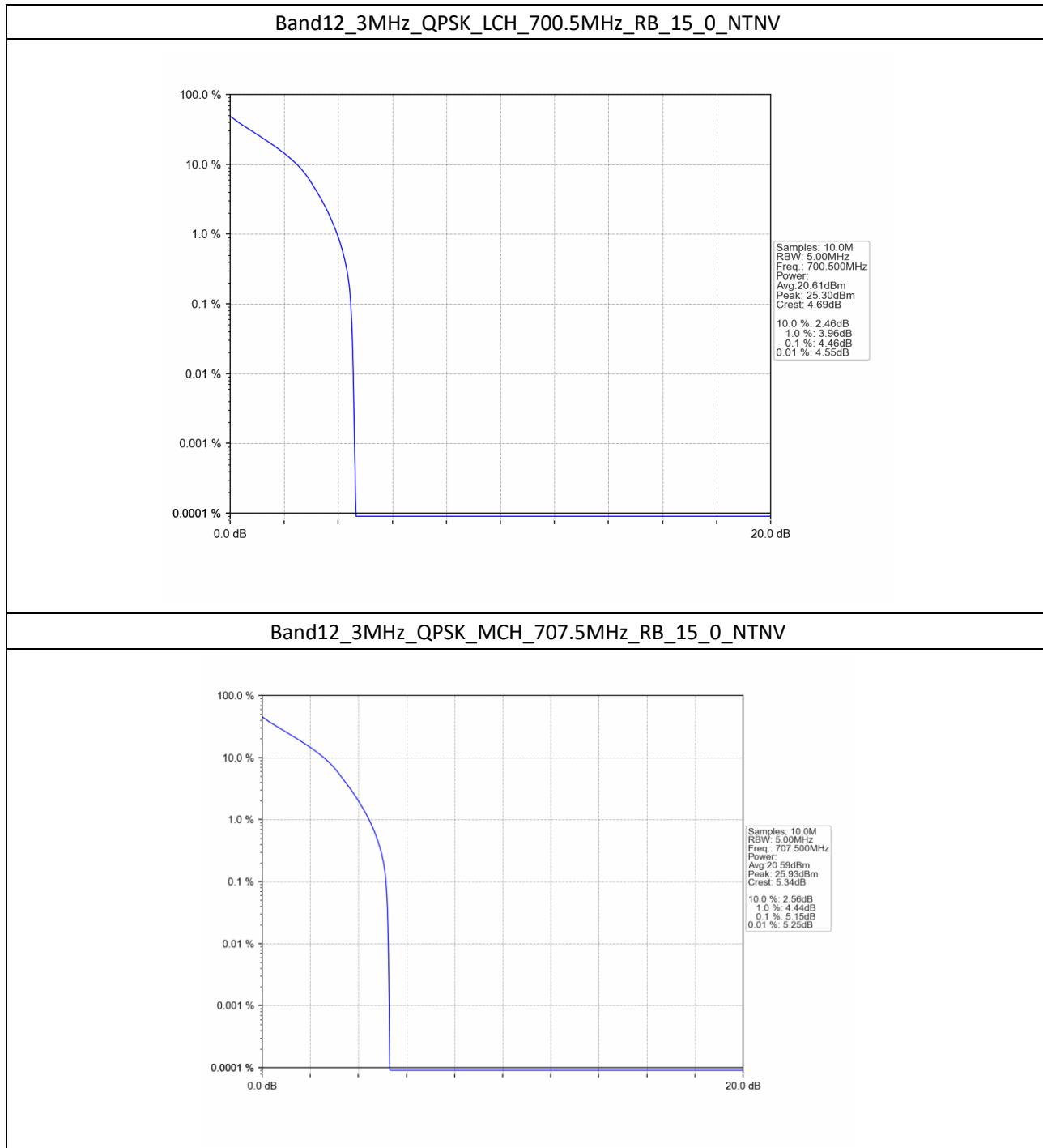
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Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV**Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV**

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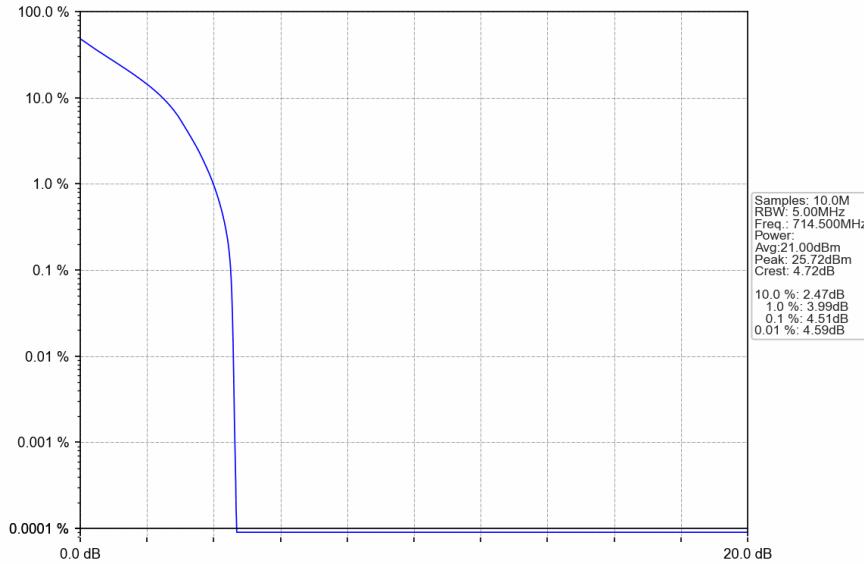
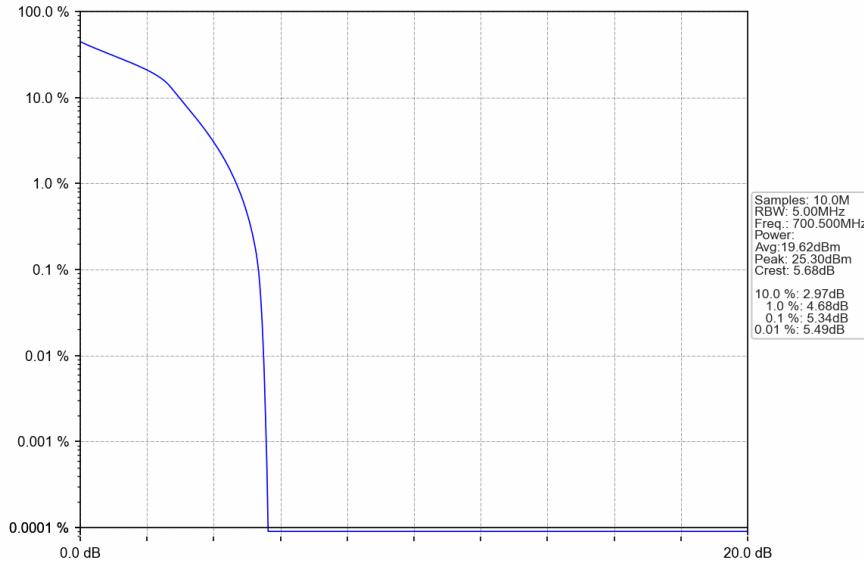
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4.2.2 B12_3MHz

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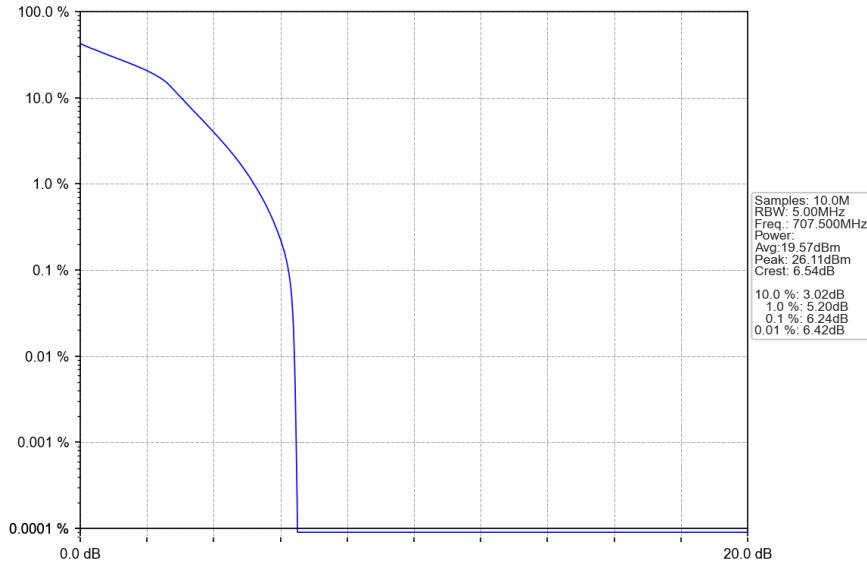
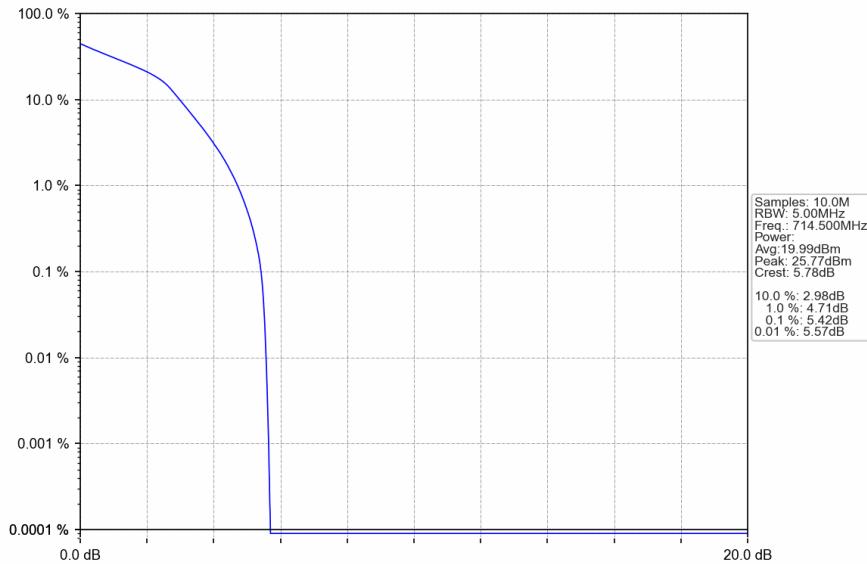
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV**Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV**

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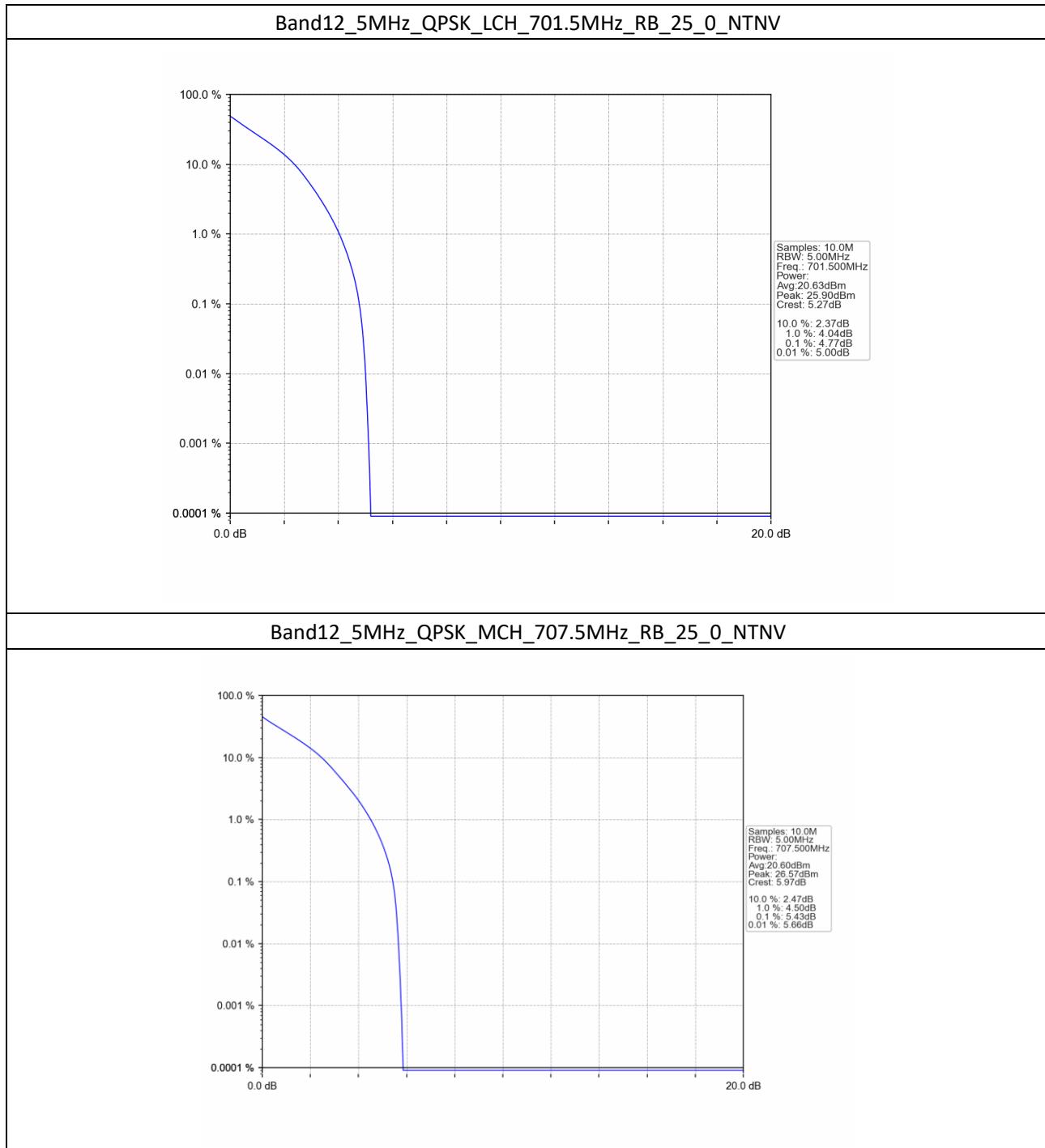
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV**Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV**

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4.2.3 B12_5MHz

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