

Appendix B.10 for KSEM2108001480CR-LTE-Band 12

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 1.4MHz / NTVN				Verdict		
		RB Allocation		Power (dBm)	Gain (dbi)			
		Size	Offset					
QPSK	699.7	1	0	24.20	-1.60	20.45	<=34.77	Pass
			2	24.44	-1.60	20.69	<=34.77	Pass
			5	23.91	-1.60	20.16	<=34.77	Pass
		3	0	23.95	-1.60	20.20	<=34.77	Pass
			2	23.94	-1.60	20.19	<=34.77	Pass
			3	23.83	-1.60	20.08	<=34.77	Pass
	707.5	6	0	22.83	-1.60	19.08	<=34.77	Pass
			0	24.15	-1.60	20.40	<=34.77	Pass
			1	24.35	-1.60	20.60	<=34.77	Pass
		3	2	24.26	-1.60	20.51	<=34.77	Pass
			0	24.16	-1.60	20.41	<=34.77	Pass
			2	24.33	-1.60	20.58	<=34.77	Pass
	715.3	6	3	24.24	-1.60	20.49	<=34.77	Pass
			0	23.20	-1.60	19.45	<=34.77	Pass
		1	0	23.96	-1.60	20.21	<=34.77	Pass
			2	23.97	-1.60	20.22	<=34.77	Pass
			5	23.86	-1.60	20.11	<=34.77	Pass
16QAM	699.7	3	0	23.93	-1.60	20.18	<=34.77	Pass
			2	23.88	-1.60	20.13	<=34.77	Pass
			3	23.86	-1.60	20.11	<=34.77	Pass
		6	0	22.88	-1.60	19.13	<=34.77	Pass
			0	22.82	-1.60	19.07	<=34.77	Pass
			1	22.84	-1.60	19.09	<=34.77	Pass
		5	5	22.82	-1.60	19.07	<=34.77	Pass
			0	22.99	-1.60	19.24	<=34.77	Pass
			3	23.07	-1.60	19.32	<=34.77	Pass
	707.5	3	2	23.03	-1.60	19.28	<=34.77	Pass
			0	21.86	-1.60	18.11	<=34.77	Pass
		6	0	22.81	-1.60	19.06	<=34.77	Pass
			1	22.91	-1.60	19.16	<=34.77	Pass
			5	22.91	-1.60	19.16	<=34.77	Pass

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		1	0	23.02	-1.60	19.27	<=34.77	Pass	
		1	2	23.03	-1.60	19.28	<=34.77	Pass	
		1	5	22.98	-1.60	19.23	<=34.77	Pass	
715.3		3	0	23.22	-1.60	19.47	<=34.77	Pass	
			2	23.19	-1.60	19.44	<=34.77	Pass	
			3	23.17	-1.60	19.42	<=34.77	Pass	
			6	0	21.96	-1.60	18.21	<=34.77	Pass

Note1: ERP=Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 3MHz / NTV							
		RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	700.5	1	0	24.17	-1.60	20.42	<=34.77	Pass	
			7	23.89	-1.60	20.14	<=34.77	Pass	
			14	23.85	-1.60	20.10	<=34.77	Pass	
		8	0	22.90	-1.60	19.15	<=34.77	Pass	
			4	22.85	-1.60	19.10	<=34.77	Pass	
			7	22.82	-1.60	19.07	<=34.77	Pass	
	707.5	15	0	22.85	-1.60	19.10	<=34.77	Pass	
			0	24.19	-1.60	20.44	<=34.77	Pass	
			7	24.36	-1.60	20.61	<=34.77	Pass	
			14	24.34	-1.60	20.59	<=34.77	Pass	
			0	23.22	-1.60	19.47	<=34.77	Pass	
	714.5	8	4	23.26	-1.60	19.51	<=34.77	Pass	
			7	23.25	-1.60	19.50	<=34.77	Pass	
			15	0	23.20	-1.60	19.45	<=34.77	Pass
		15	0	24.01	-1.60	20.26	<=34.77	Pass	
			1	23.94	-1.60	20.19	<=34.77	Pass	
16QAM	700.5		14	23.68	-1.60	19.93	<=34.77	Pass	
			0	23.09	-1.60	19.34	<=34.77	Pass	
			4	23.03	-1.60	19.28	<=34.77	Pass	
			7	23.01	-1.60	19.26	<=34.77	Pass	
			15	0	23.01	-1.60	19.26	<=34.77	Pass
	707.5	15	0	22.93	-1.60	19.18	<=34.77	Pass	
			1	22.87	-1.60	19.12	<=34.77	Pass	
			14	22.82	-1.60	19.07	<=34.77	Pass	
			0	21.97	-1.60	18.22	<=34.77	Pass	
			4	21.92	-1.60	18.17	<=34.77	Pass	
		8	7	21.94	-1.60	18.19	<=34.77	Pass	
			0	21.92	-1.60	18.17	<=34.77	Pass	

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714.5	714.5	4	21.91	-1.60	18.16	<=34.77	Pass
		7	21.92	-1.60	18.17	<=34.77	Pass
		15	22.00	-1.60	18.25	<=34.77	Pass
		0	23.21	-1.60	19.46	<=34.77	Pass
		1	23.23	-1.60	19.48	<=34.77	Pass
		14	23.08	-1.60	19.33	<=34.77	Pass
		0	22.19	-1.60	18.44	<=34.77	Pass
		8	22.15	-1.60	18.40	<=34.77	Pass
		7	22.12	-1.60	18.37	<=34.77	Pass
		15	22.14	-1.60	18.39	<=34.77	Pass

Note1: ERP=Power+Antenna Gain-2.15

1.3 B12_5MHz_ERP

1.3.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 5MHz / NTVN					
		RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)	Verdict
		Size	Offset			Result	
QPSK	701.5	0	24.35	-1.60	20.60	<=34.77	Pass
		1	13	24.18	-1.60	20.43	<=34.77
		24		23.83	-1.60	20.08	<=34.77
		0	23.06	-1.60	19.31	<=34.77	Pass
		12	6	22.98	-1.60	19.23	<=34.77
		0	23.01	-1.60	19.26	<=34.77	Pass
		25	0	23.02	-1.60	19.27	<=34.77
	707.5	0	24.16	-1.60	20.41	<=34.77	Pass
		1	13	24.12	-1.60	20.37	<=34.77
		24		24.15	-1.60	20.40	<=34.77
		0	23.25	-1.60	19.50	<=34.77	Pass
		12	6	23.20	-1.60	19.45	<=34.77
16QAM	713.5	0	23.20	-1.60	19.45	<=34.77	Pass
		25	0	23.21	-1.60	19.46	<=34.77
		0	24.04	-1.60	20.29	<=34.77	Pass
		1	13	24.06	-1.60	20.31	<=34.77
		24		23.67	-1.60	19.92	<=34.77
		0	22.96	-1.60	19.21	<=34.77	Pass
		12	6	23.07	-1.60	19.32	<=34.77
		0	23.02	-1.60	19.27	<=34.77	Pass
		25	0	23.04	-1.60	19.29	<=34.77
		0	23.10	-1.60	19.35	<=34.77	Pass
16QAM	701.5	1	13	23.10	-1.60	19.35	<=34.77
		24		22.99	-1.60	19.24	<=34.77
		0	21.98	-1.60	18.23	<=34.77	Pass
		12	6	21.98	-1.60	18.23	<=34.77
		0	22.01	-1.60	18.26	<=34.77	Pass

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707.5	25	0	22.06	-1.60	18.31	<=34.77	Pass
	1	0	23.13	-1.60	19.38	<=34.77	Pass
	13	23.15	-1.60	19.40	<=34.77	Pass	
	24	23.14	-1.60	19.39	<=34.77	Pass	
	12	0	21.96	-1.60	18.21	<=34.77	Pass
	6	21.94	-1.60	18.19	<=34.77	Pass	
	13	21.90	-1.60	18.15	<=34.77	Pass	
	25	0	21.88	-1.60	18.13	<=34.77	Pass
	1	0	22.98	-1.60	19.23	<=34.77	Pass
	13	23.02	-1.60	19.27	<=34.77	Pass	
713.5	24	22.66	-1.60	18.91	<=34.77	Pass	
	12	0	22.16	-1.60	18.41	<=34.77	Pass
	6	22.28	-1.60	18.53	<=34.77	Pass	
	13	22.14	-1.60	18.39	<=34.77	Pass	
	25	0	22.22	-1.60	18.47	<=34.77	Pass

Note1: ERP=Power+Antenna Gain-2.15

1.4 B12_10MHz_ERP

1.4.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 10MHz / NTVN						
		RB Allocation		Power (dBm)	Gain (dbi)	ERP (dBm)	Verdict	
		Size	Offset			Result		
QPSK	704	1	0	24.16	-1.60	20.41	<=34.77	Pass
		25	24.09	-1.60	20.34	<=34.77	Pass	
		49	24.10	-1.60	20.35	<=34.77	Pass	
		25	0	23.12	-1.60	19.37	<=34.77	Pass
		13	23.17	-1.60	19.42	<=34.77	Pass	
	707.5	25	23.21	-1.60	19.46	<=34.77	Pass	
		50	0	23.12	-1.60	19.37	<=34.77	Pass
		1	0	24.11	-1.60	20.36	<=34.77	Pass
		25	24.06	-1.60	20.31	<=34.77	Pass	
		49	24.15	-1.60	20.40	<=34.77	Pass	
16QAM	711	25	0	23.01	-1.60	19.26	<=34.77	Pass
		13	23.10	-1.60	19.35	<=34.77	Pass	
		25	22.99	-1.60	19.24	<=34.77	Pass	
		50	0	23.04	-1.60	19.29	<=34.77	Pass
		1	0	24.15	-1.60	20.40	<=34.77	Pass
		25	24.19	-1.60	20.44	<=34.77	Pass	
		49	23.66	-1.60	19.91	<=34.77	Pass	
		25	0	23.03	-1.60	19.28	<=34.77	Pass
		13	23.01	-1.60	19.26	<=34.77	Pass	
		25	22.98	-1.60	19.23	<=34.77	Pass	
	704	50	0	23.03	-1.60	19.28	<=34.77	Pass

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		25	23.00	-1.60	19.25	<=34.77	Pass	
		49	23.09	-1.60	19.34	<=34.77	Pass	
25	707.5	0	21.87	-1.60	18.12	<=34.77	Pass	
		13	21.93	-1.60	18.18	<=34.77	Pass	
		25	22.09	-1.60	18.34	<=34.77	Pass	
		50	0	21.97	-1.60	18.22	<=34.77	Pass
		0	23.39	-1.60	19.64	<=34.77	Pass	
25	711	1	23.44	-1.60	19.69	<=34.77	Pass	
		49	23.43	-1.60	19.68	<=34.77	Pass	
		0	21.90	-1.60	18.15	<=34.77	Pass	
		13	21.97	-1.60	18.22	<=34.77	Pass	
		25	21.92	-1.60	18.17	<=34.77	Pass	
50	711	0	21.94	-1.60	18.19	<=34.77	Pass	
		0	22.97	-1.60	19.22	<=34.77	Pass	
		1	23.03	-1.60	19.28	<=34.77	Pass	
		49	22.65	-1.60	18.90	<=34.77	Pass	
		25	22.04	-1.60	18.29	<=34.77	Pass	
25	711	0	22.00	-1.60	18.25	<=34.77	Pass	
		13	21.97	-1.60	18.22	<=34.77	Pass	
		50	0	22.02	-1.60	18.27	<=34.77	Pass

Note1: ERP=Power+Antenna Gain-2.15

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]

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2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-1.83	-0.00	-2.5 to 2.5	Pass
					3.85	-2.09	-0.00	-2.5 to 2.5	Pass
					4.43	-0.97	-0.00	-2.5 to 2.5	Pass
					-30	3.85	0.23	-2.5 to 2.5	Pass
					-20	3.85	0.67	-2.5 to 2.5	Pass
				-10	3.85	1.09	0.00	-2.5 to 2.5	Pass
					0	3.85	0.93	-2.5 to 2.5	Pass
					10	3.85	0.86	-2.5 to 2.5	Pass
					30	3.85	-0.74	-2.5 to 2.5	Pass
					40	3.85	-1.44	-2.5 to 2.5	Pass
				50	3.85	-2.20	-0.00	-2.5 to 2.5	Pass
					3.27	-0.51	-0.00	-2.5 to 2.5	Pass
					20	3.85	-1.02	-2.5 to 2.5	Pass
					4.43	0.30	0.00	-2.5 to 2.5	Pass
					-30	3.85	-0.59	-2.5 to 2.5	Pass
16QAM	707.5	6	0	-20	3.85	-2.76	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-0.33	-2.5 to 2.5	Pass
					0	3.85	-1.36	-2.5 to 2.5	Pass
					10	3.85	0.34	-2.5 to 2.5	Pass
					30	3.85	-1.17	-2.5 to 2.5	Pass
				40	3.85	-2.83	-0.00	-2.5 to 2.5	Pass
					50	3.85	-1.16	-2.5 to 2.5	Pass
				20	3.27	13.23	0.02	-2.5 to 2.5	Pass
					3.85	15.18	0.02	-2.5 to 2.5	Pass
					4.43	16.69	0.02	-2.5 to 2.5	Pass
					-30	3.85	18.12	0.03	-2.5 to 2.5
					-20	3.85	13.73	0.02	-2.5 to 2.5
16QAM	715.3	6	0	-10	3.85	10.43	0.01	-2.5 to 2.5	Pass
					0	3.85	10.43	0.01	-2.5 to 2.5
					10	3.85	7.52	0.01	-2.5 to 2.5
					30	3.85	5.36	0.01	-2.5 to 2.5
					40	3.85	4.88	0.01	-2.5 to 2.5
				50	3.85	3.46	0.00	-2.5 to 2.5	Pass
					3.27	-1.97	-0.00	-2.5 to 2.5	Pass
					3.85	-2.39	-0.00	-2.5 to 2.5	Pass
					20				

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					4.43	-2.05	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-3.42	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.43	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.62	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.64	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.13	0.00	-2.5 to 2.5	Pass
				30	3.85	-1.77	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.02	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.73	-0.00	-2.5 to 2.5	Pass
					3.27	0.37	0.00	-2.5 to 2.5	Pass
				20	3.85	1.16	0.00	-2.5 to 2.5	Pass
					4.43	-2.59	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.10	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-0.37	-0.00	-2.5 to 2.5	Pass
				-10	3.85	0.92	0.00	-2.5 to 2.5	Pass
				0	3.85	-2.40	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.35	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.05	-0.00	-2.5 to 2.5	Pass
				40	3.85	-1.27	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.22	-0.00	-2.5 to 2.5	Pass
					3.27	-2.68	-0.00	-2.5 to 2.5	Pass
				20	3.85	-0.09	-0.00	-2.5 to 2.5	Pass
					4.43	-2.78	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-1.90	-0.00	-2.5 to 2.5	Pass
				-20	3.85	0.54	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.14	0.00	-2.5 to 2.5	Pass
				0	3.85	-0.36	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.05	-0.00	-2.5 to 2.5	Pass
				30	3.85	1.34	0.00	-2.5 to 2.5	Pass
				40	3.85	1.10	0.00	-2.5 to 2.5	Pass
				50	3.85	1.30	0.00	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 3MHz				Freq. vs. Rated (ppm) Result	Verdict		
		RB Allocation Size	RB Allocation Offset	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)			
QPSK	700.5	15	0	20	3.27	1.12	0.00	-2.5 to 2.5	Pass
					3.85	2.25	0.00	-2.5 to 2.5	Pass
					4.43	-0.89	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.69	-0.00	-2.5 to 2.5	Pass
				-20	3.85	0.50	0.00	-2.5 to 2.5	Pass
				-10	3.85	1.72	0.00	-2.5 to 2.5	Pass
				0	3.85	1.66	0.00	-2.5 to 2.5	Pass

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	707.5	15	0	10	3.85	-0.49	-0.00	-2.5 to 2.5	Pass
				30	3.85	0.40	0.00	-2.5 to 2.5	Pass
				40	3.85	1.79	0.00	-2.5 to 2.5	Pass
				50	3.85	2.40	0.00	-2.5 to 2.5	Pass
					3.27	0.82	0.00	-2.5 to 2.5	Pass
				20	3.85	2.66	0.00	-2.5 to 2.5	Pass
					4.43	1.76	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.76	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.92	0.00	-2.5 to 2.5	Pass
				-10	3.85	0.84	0.00	-2.5 to 2.5	Pass
				0	3.85	1.86	0.00	-2.5 to 2.5	Pass
				10	3.85	0.20	0.00	-2.5 to 2.5	Pass
				30	3.85	2.33	0.00	-2.5 to 2.5	Pass
				40	3.85	1.82	0.00	-2.5 to 2.5	Pass
				50	3.85	0.64	0.00	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	0.57	0.00	-2.5 to 2.5	Pass
					3.85	1.95	0.00	-2.5 to 2.5	Pass
					4.43	4.52	0.01	-2.5 to 2.5	Pass
				-30	3.85	3.91	0.01	-2.5 to 2.5	Pass
				-20	3.85	4.29	0.01	-2.5 to 2.5	Pass
				-10	3.85	3.42	0.00	-2.5 to 2.5	Pass
				0	3.85	2.93	0.00	-2.5 to 2.5	Pass
				10	3.85	1.07	0.00	-2.5 to 2.5	Pass
				30	3.85	1.12	0.00	-2.5 to 2.5	Pass
				40	3.85	0.99	0.00	-2.5 to 2.5	Pass
				50	3.85	0.26	0.00	-2.5 to 2.5	Pass
					3.27	-0.63	-0.00	-2.5 to 2.5	Pass
				20	3.85	1.60	0.00	-2.5 to 2.5	Pass
					4.43	1.95	0.00	-2.5 to 2.5	Pass
				-30	3.85	1.79	0.00	-2.5 to 2.5	Pass
	700.5	15	0	-20	3.85	-0.56	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-0.09	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.62	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.82	0.00	-2.5 to 2.5	Pass
				30	3.85	1.10	0.00	-2.5 to 2.5	Pass
				40	3.85	-0.72	-0.00	-2.5 to 2.5	Pass
				50	3.85	-1.03	-0.00	-2.5 to 2.5	Pass
					3.27	0.80	0.00	-2.5 to 2.5	Pass
				20	3.85	1.06	0.00	-2.5 to 2.5	Pass
					4.43	0.47	0.00	-2.5 to 2.5	Pass
				-30	3.85	2.40	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.70	0.00	-2.5 to 2.5	Pass
				-10	3.85	2.33	0.00	-2.5 to 2.5	Pass
				0	3.85	2.36	0.00	-2.5 to 2.5	Pass
				10	3.85	2.49	0.00	-2.5 to 2.5	Pass
				30	3.85	2.93	0.00	-2.5 to 2.5	Pass
				40	3.85	2.80	0.00	-2.5 to 2.5	Pass
				50	3.85	2.79	0.00	-2.5 to 2.5	Pass

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					3.27	3.65	0.01	-2.5 to 2.5	Pass
				20	3.85	3.69	0.01	-2.5 to 2.5	Pass
					4.43	3.35	0.00	-2.5 to 2.5	Pass
					-30	3.85	2.68	-2.5 to 2.5	Pass
					-20	3.85	4.51	-2.5 to 2.5	Pass
					-10	3.85	4.48	-2.5 to 2.5	Pass
					0	3.85	4.35	-2.5 to 2.5	Pass
					10	3.85	3.86	-2.5 to 2.5	Pass
					30	3.85	2.47	-2.5 to 2.5	Pass
					40	3.85	1.75	-2.5 to 2.5	Pass
					50	3.85	1.90	-2.5 to 2.5	Pass

2.3 B12_5MHz

2.3.1 Test Result

Modulation	Frequency (MHz)	Band: 12 / Bandwidth: 5MHz						Verdict	
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	0.43	0.00	-2.5 to 2.5	Pass
					3.85	0.63	0.00	-2.5 to 2.5	Pass
					4.43	0.24	0.00	-2.5 to 2.5	Pass
					-30	3.85	0.93	-2.5 to 2.5	Pass
				-20	3.85	0.99	0.00	-2.5 to 2.5	Pass
					-10	3.85	-0.44	-2.5 to 2.5	Pass
					0	3.85	-1.22	-2.5 to 2.5	Pass
					10	3.85	-0.56	-2.5 to 2.5	Pass
					30	3.85	-1.07	-2.5 to 2.5	Pass
					40	3.85	0.89	-2.5 to 2.5	Pass
					50	3.85	-0.43	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-1.80	-0.00	-2.5 to 2.5	Pass
					3.85	-0.92	-0.00	-2.5 to 2.5	Pass
					4.43	0.77	0.00	-2.5 to 2.5	Pass
					-30	3.85	1.52	-2.5 to 2.5	Pass
				-20	3.85	0.62	0.00	-2.5 to 2.5	Pass
					-10	3.85	-1.32	-2.5 to 2.5	Pass
					0	3.85	0.06	-2.5 to 2.5	Pass
					10	3.85	2.35	-2.5 to 2.5	Pass
				30	3.85	0.06	0.00	-2.5 to 2.5	Pass
					40	3.85	-0.03	-2.5 to 2.5	Pass
					50	3.85	-0.44	-2.5 to 2.5	Pass
				20	3.27	-1.73	-0.00	-2.5 to 2.5	Pass
					3.85	1.23	0.00	-2.5 to 2.5	Pass
					4.43	1.12	0.00	-2.5 to 2.5	Pass
					-30	3.85	1.34	-2.5 to 2.5	Pass
					-20	3.85	-0.50	-2.5 to 2.5	Pass

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				-10	3.85	1.57	0.00	-2.5 to 2.5	Pass						
				0	3.85	2.30	0.00	-2.5 to 2.5	Pass						
				10	3.85	2.26	0.00	-2.5 to 2.5	Pass						
				30	3.85	1.14	0.00	-2.5 to 2.5	Pass						
				40	3.85	0.11	0.00	-2.5 to 2.5	Pass						
				50	3.85	-0.16	-0.00	-2.5 to 2.5	Pass						
					3.27	0.03	0.00	-2.5 to 2.5	Pass						
					20	3.85	1.26	0.00	-2.5 to 2.5	Pass					
						4.43	1.36	0.00	-2.5 to 2.5	Pass					
						-30	3.85	1.44	0.00	-2.5 to 2.5	Pass				
						-20	3.85	1.06	0.00	-2.5 to 2.5	Pass				
						-10	3.85	1.60	0.00	-2.5 to 2.5	Pass				
						0	3.85	2.19	0.00	-2.5 to 2.5	Pass				
						10	3.85	1.63	0.00	-2.5 to 2.5	Pass				
						30	3.85	1.09	0.00	-2.5 to 2.5	Pass				
						40	3.85	-0.80	-0.00	-2.5 to 2.5	Pass				
						50	3.85	-1.10	-0.00	-2.5 to 2.5	Pass				
							3.27	1.60	0.00	-2.5 to 2.5	Pass				
							20	3.85	1.37	0.00	-2.5 to 2.5	Pass			
								4.43	2.76	0.00	-2.5 to 2.5	Pass			
								-30	3.85	1.26	0.00	-2.5 to 2.5	Pass		
								-20	3.85	1.00	0.00	-2.5 to 2.5	Pass		
								-10	3.85	1.96	0.00	-2.5 to 2.5	Pass		
								0	3.85	0.49	0.00	-2.5 to 2.5	Pass		
								10	3.85	2.27	0.00	-2.5 to 2.5	Pass		
								30	3.85	0.62	0.00	-2.5 to 2.5	Pass		
								40	3.85	1.17	0.00	-2.5 to 2.5	Pass		
								50	3.85	-0.40	-0.00	-2.5 to 2.5	Pass		
									3.27	-1.43	-0.00	-2.5 to 2.5	Pass		
									20	3.85	-1.66	-0.00	-2.5 to 2.5	Pass	
										4.43	1.59	0.00	-2.5 to 2.5	Pass	
										-30	3.85	1.66	0.00	-2.5 to 2.5	Pass
										-20	3.85	-0.72	-0.00	-2.5 to 2.5	Pass
										-10	3.85	1.87	0.00	-2.5 to 2.5	Pass
										0	3.85	1.83	0.00	-2.5 to 2.5	Pass
										10	3.85	1.10	0.00	-2.5 to 2.5	Pass
										30	3.85	-0.43	-0.00	-2.5 to 2.5	Pass
										40	3.85	-0.99	-0.00	-2.5 to 2.5	Pass
										50	3.85	0.49	0.00	-2.5 to 2.5	Pass

2.4 B12_10MHz

2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz							
Modulation	Frequency	RB Allocation	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict



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	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	
QPSK	704	50	0	20	3.27	1.70	0.00	-2.5 to 2.5	Pass
					3.85	-0.27	-0.00	-2.5 to 2.5	Pass
					4.43	0.13	0.00	-2.5 to 2.5	Pass
					-30	3.85	-0.79	-0.00	-2.5 to 2.5
					-20	3.85	1.09	0.00	-2.5 to 2.5
				-10	3.85	-0.49	-0.00	-2.5 to 2.5	Pass
					0	3.85	0.13	0.00	-2.5 to 2.5
					10	3.85	-0.96	-0.00	-2.5 to 2.5
					30	3.85	2.00	0.00	-2.5 to 2.5
					40	3.85	-0.46	-0.00	-2.5 to 2.5
	707.5	50	0	20	3.85	0.34	0.00	-2.5 to 2.5	Pass
					3.27	0.07	0.00	-2.5 to 2.5	Pass
					3.85	-1.16	-0.00	-2.5 to 2.5	Pass
				-30	4.43	1.29	0.00	-2.5 to 2.5	Pass
					3.85	2.16	0.00	-2.5 to 2.5	Pass
	711	50	0	-20	3.85	-0.83	-0.00	-2.5 to 2.5	Pass
					-10	3.85	-0.09	-0.00	-2.5 to 2.5
					0	3.85	0.04	0.00	-2.5 to 2.5
					10	3.85	-1.54	-0.00	-2.5 to 2.5
					30	3.85	-0.47	-0.00	-2.5 to 2.5
				-10	40	3.85	-0.34	-0.00	-2.5 to 2.5
					50	3.85	1.42	0.00	-2.5 to 2.5
				20	3.27	-0.86	-0.00	-2.5 to 2.5	Pass
					3.85	-0.74	-0.00	-2.5 to 2.5	Pass
					4.43	-0.57	-0.00	-2.5 to 2.5	Pass
					-30	3.85	-0.33	-0.00	-2.5 to 2.5
					-20	3.85	-0.63	-0.00	-2.5 to 2.5
					-10	3.85	-0.36	-0.00	-2.5 to 2.5
					0	3.85	-0.37	-0.00	-2.5 to 2.5
					10	3.85	-0.54	-0.00	-2.5 to 2.5
					30	3.85	-0.63	-0.00	-2.5 to 2.5
					40	3.85	-0.74	-0.00	-2.5 to 2.5
16QAM	704	50	0	20	3.85	-0.30	-0.00	-2.5 to 2.5	Pass
					3.27	2.02	0.00	-2.5 to 2.5	Pass
					3.85	2.45	0.00	-2.5 to 2.5	Pass
					4.43	1.96	0.00	-2.5 to 2.5	Pass
					-30	3.85	1.46	0.00	-2.5 to 2.5
				-20	3.85	1.07	0.00	-2.5 to 2.5	Pass
					-10	3.85	-0.03	0.00	-2.5 to 2.5
					0	3.85	3.08	0.00	-2.5 to 2.5
					10	3.85	2.65	0.00	-2.5 to 2.5
					30	3.85	2.05	0.00	-2.5 to 2.5
	707.5	50	0	20	40	3.85	1.62	0.00	-2.5 to 2.5
					50	3.85	0.44	0.00	-2.5 to 2.5
					3.27	-1.93	-0.00	-2.5 to 2.5	Pass
				-10	3.85	-2.05	-0.00	-2.5 to 2.5	Pass
					4.43	0.84	0.00	-2.5 to 2.5	Pass

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				-30	3.85	0.76	0.00	-2.5 to 2.5	Pass		
				-20	3.85	0.13	0.00	-2.5 to 2.5	Pass		
				-10	3.85	-1.72	-0.00	-2.5 to 2.5	Pass		
				0	3.85	-1.72	-0.00	-2.5 to 2.5	Pass		
				10	3.85	-2.26	-0.00	-2.5 to 2.5	Pass		
				30	3.85	-1.96	-0.00	-2.5 to 2.5	Pass		
				40	3.85	0.43	0.00	-2.5 to 2.5	Pass		
				50	3.85	-0.30	-0.00	-2.5 to 2.5	Pass		
					3.27	0.49	0.00	-2.5 to 2.5	Pass		
					20	3.85	0.03	-2.5 to 2.5	Pass		
						4.43	-1.97	-0.00	-2.5 to 2.5	Pass	
						-30	3.85	0.09	-2.5 to 2.5	Pass	
						-20	3.85	-0.31	-2.5 to 2.5	Pass	
						-10	3.85	-1.76	-0.00	-2.5 to 2.5	Pass
						0	3.85	0.83	-2.5 to 2.5	Pass	
						10	3.85	-0.23	-2.5 to 2.5	Pass	
						30	3.85	-1.56	-2.5 to 2.5	Pass	
						40	3.85	-1.89	-2.5 to 2.5	Pass	
						50	3.85	0.34	-2.5 to 2.5	Pass	

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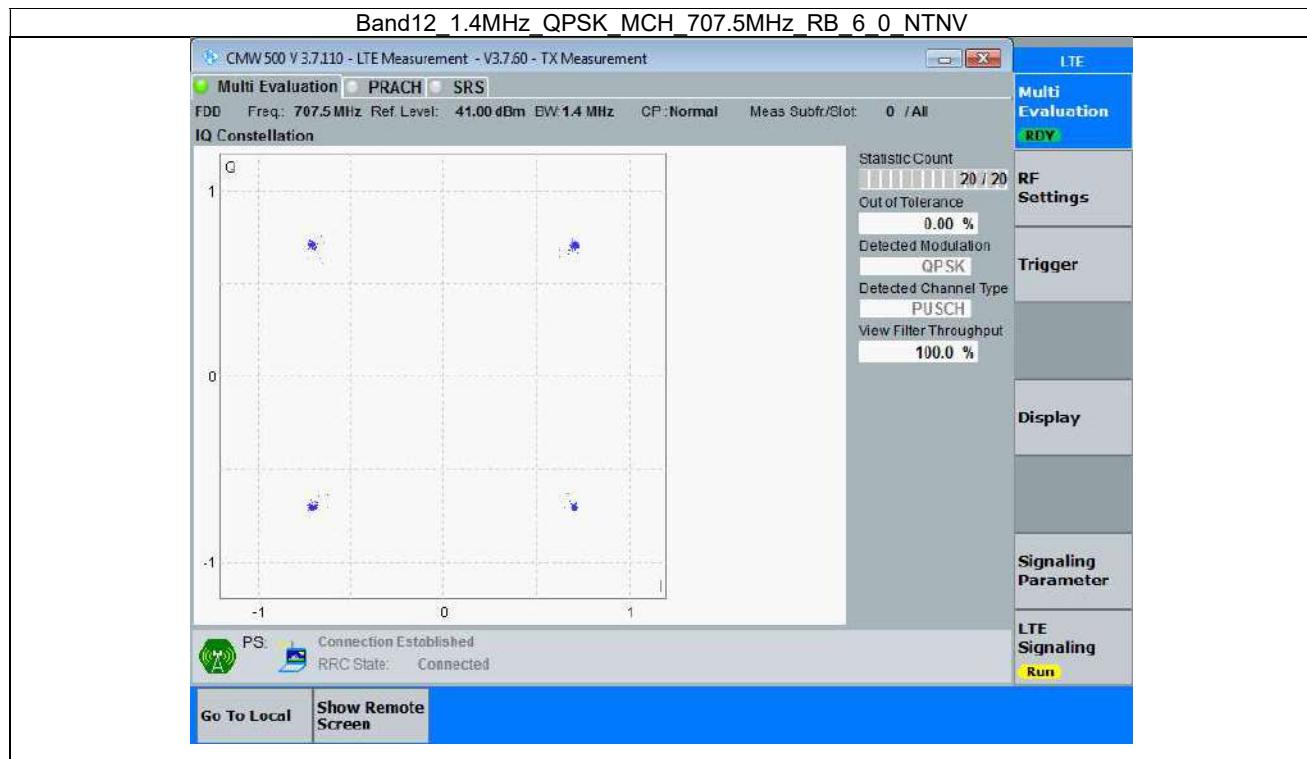
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph



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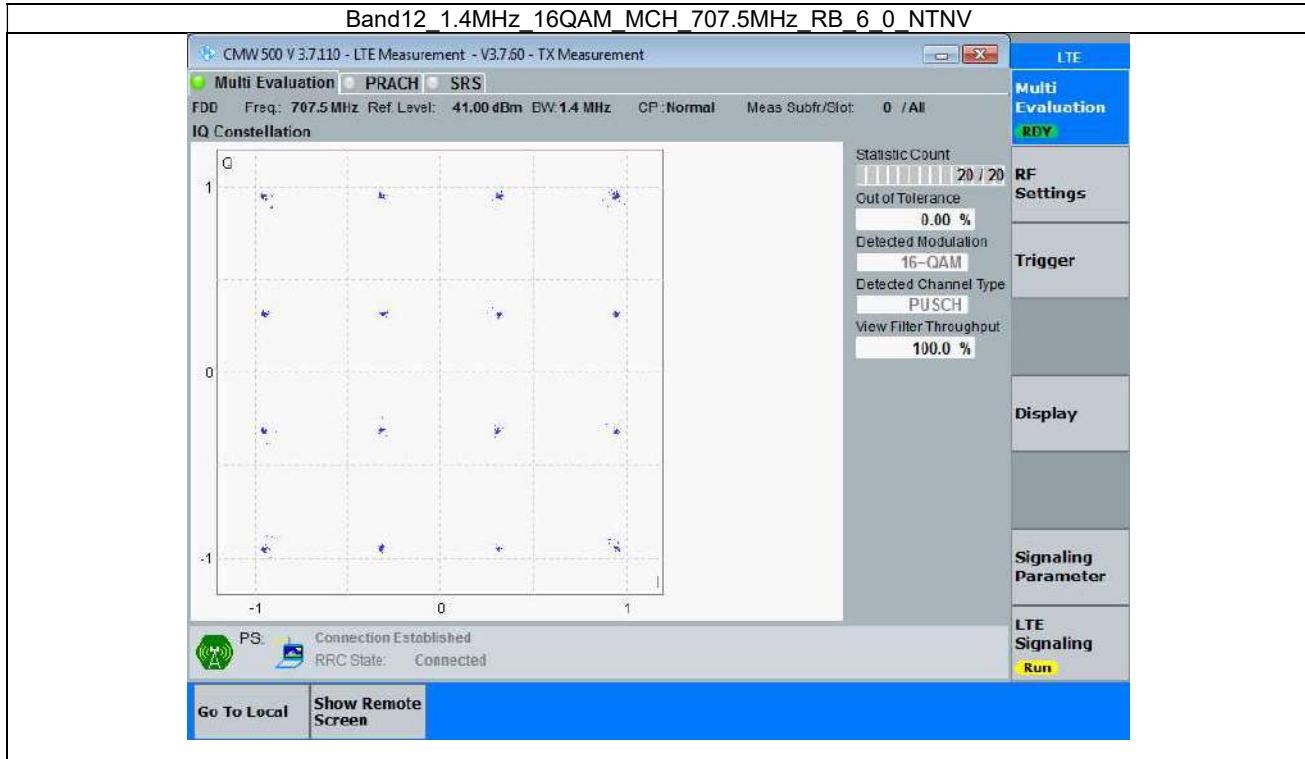
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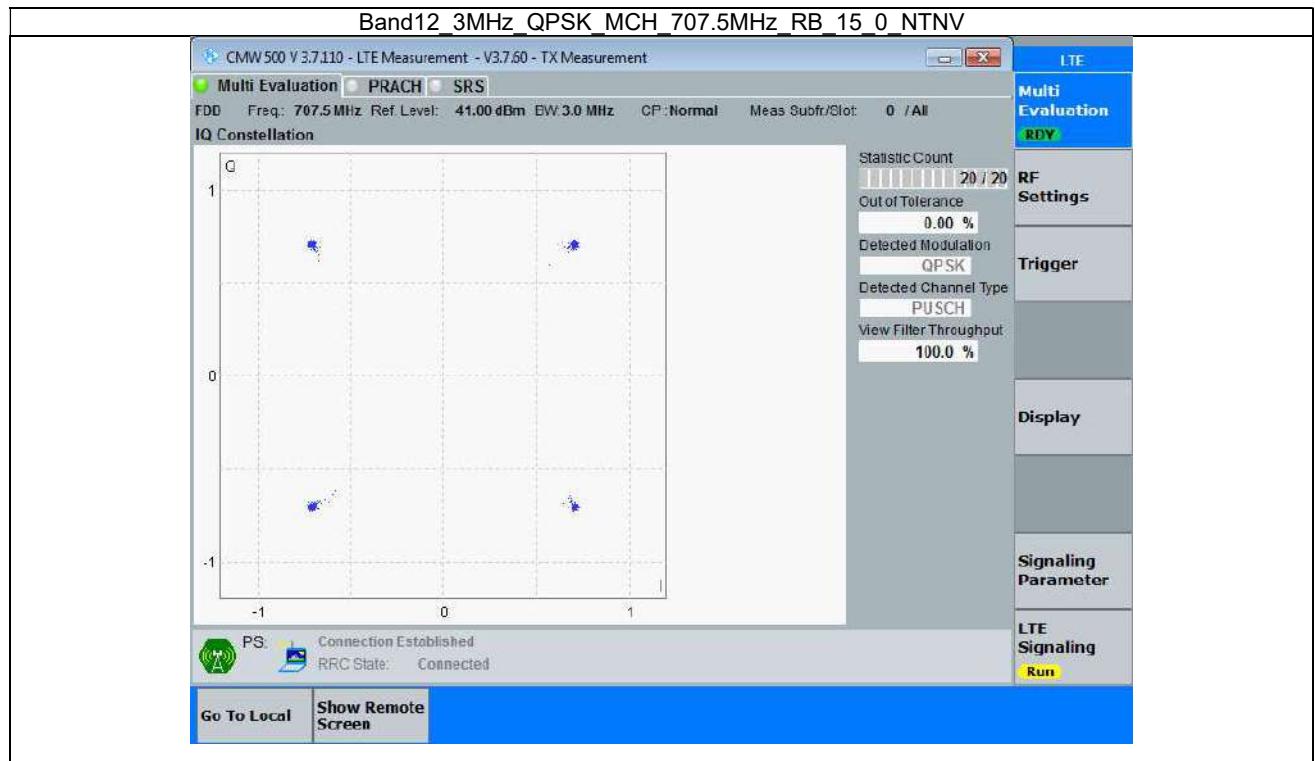
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3.2 B12_3MHz

3.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph



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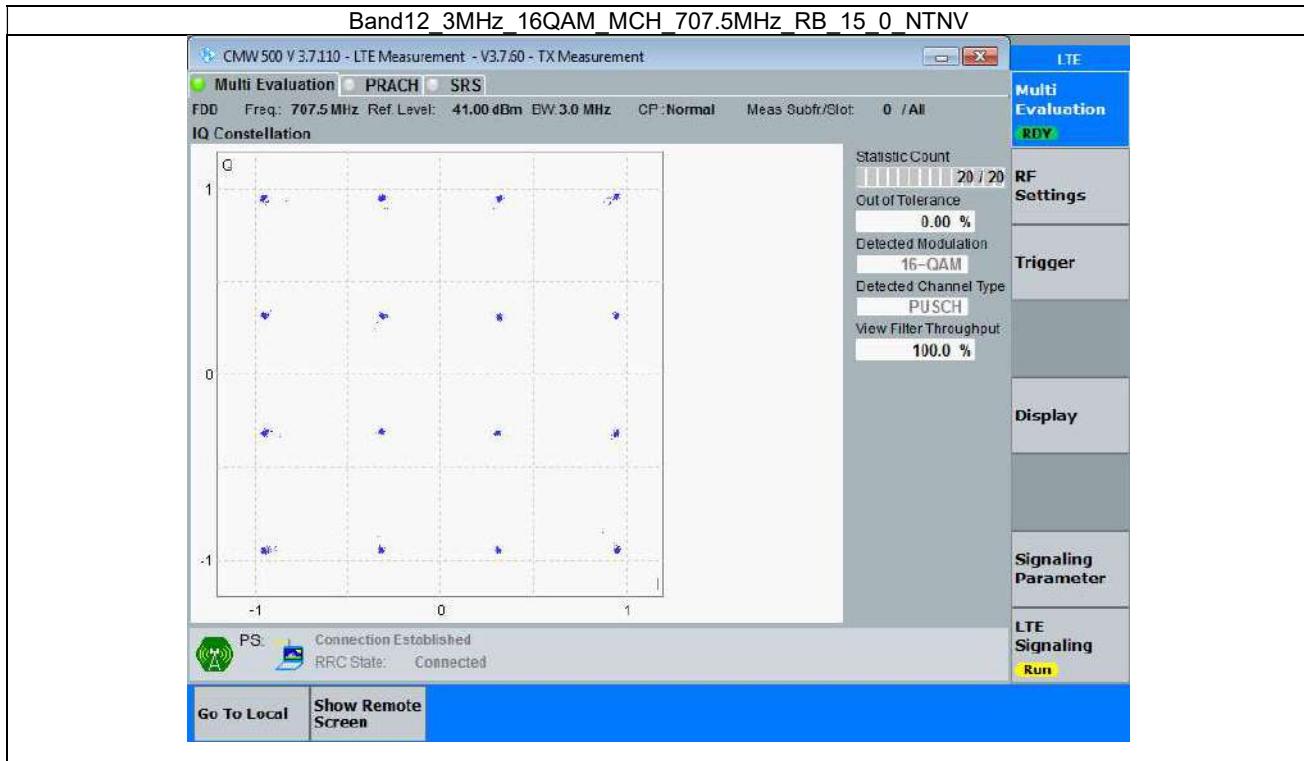
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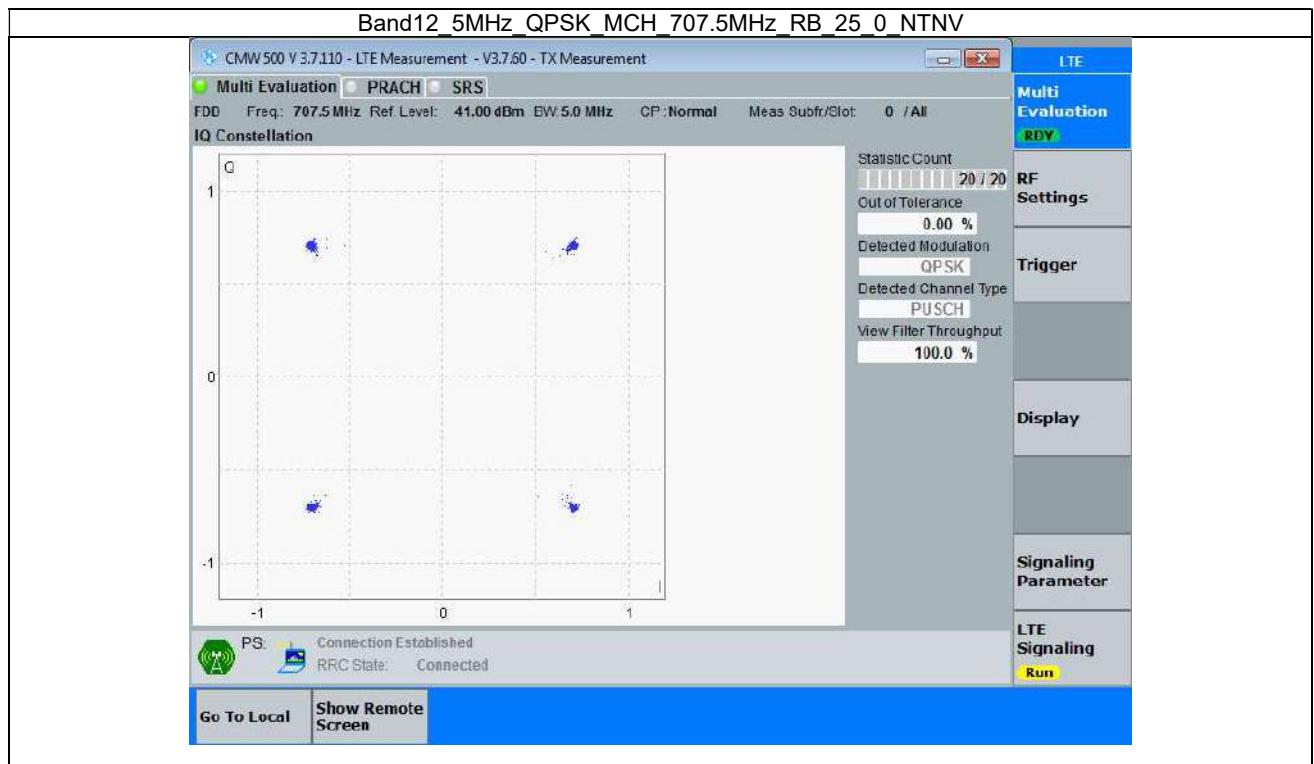
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3.3 B12_5MHz

3.3.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

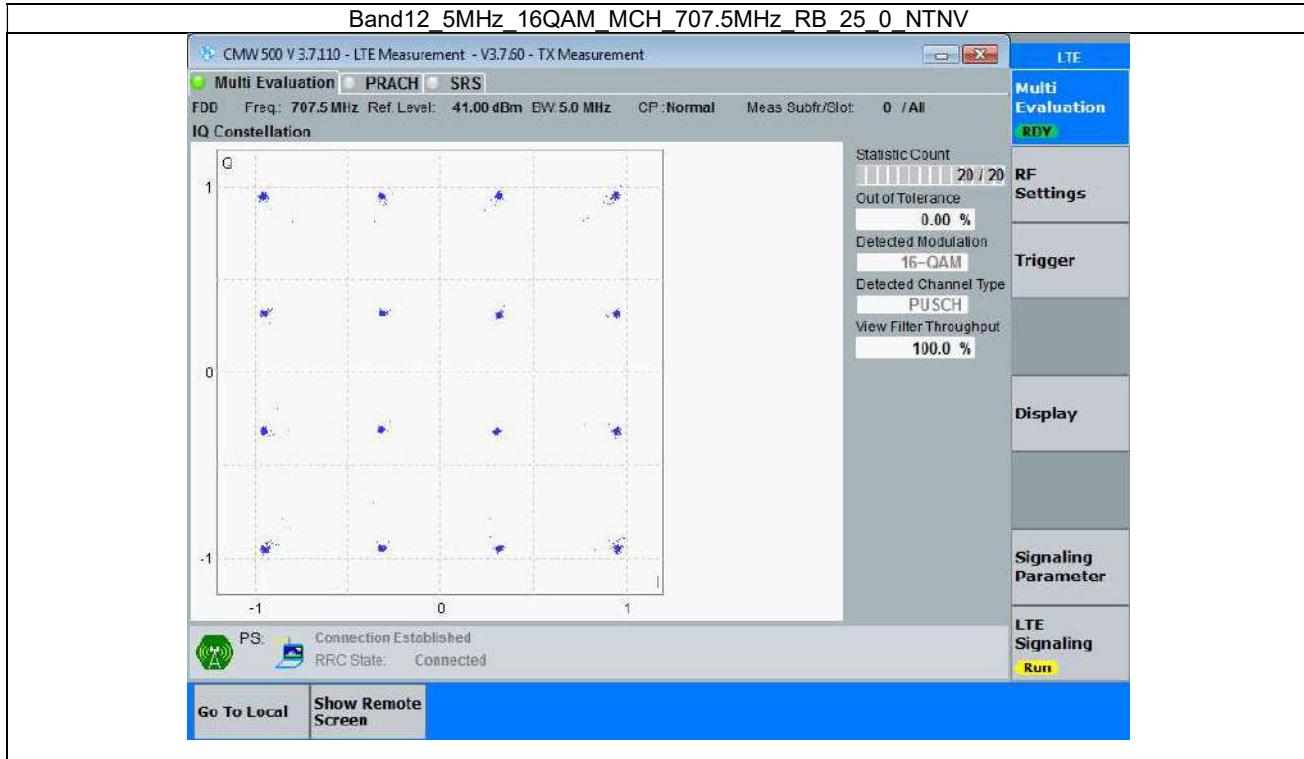


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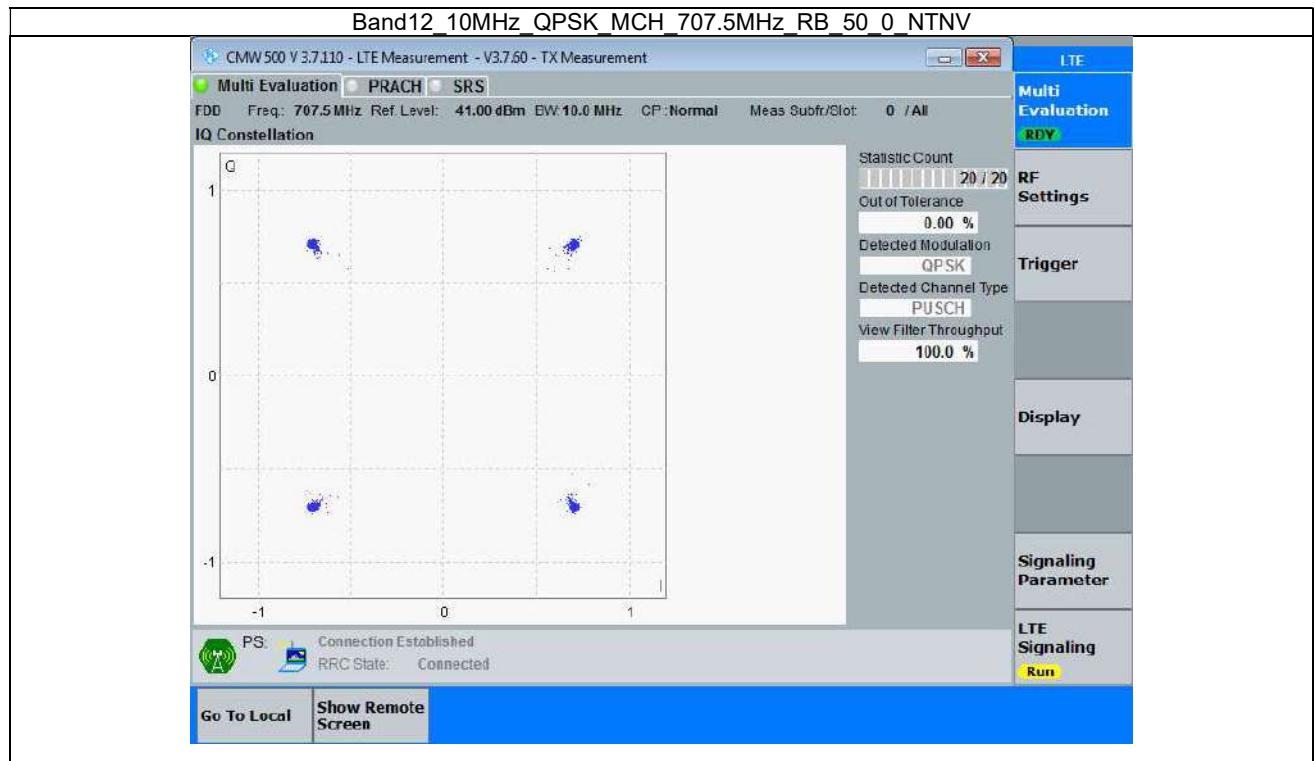
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3.4 B12_10MHz

3.4.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph



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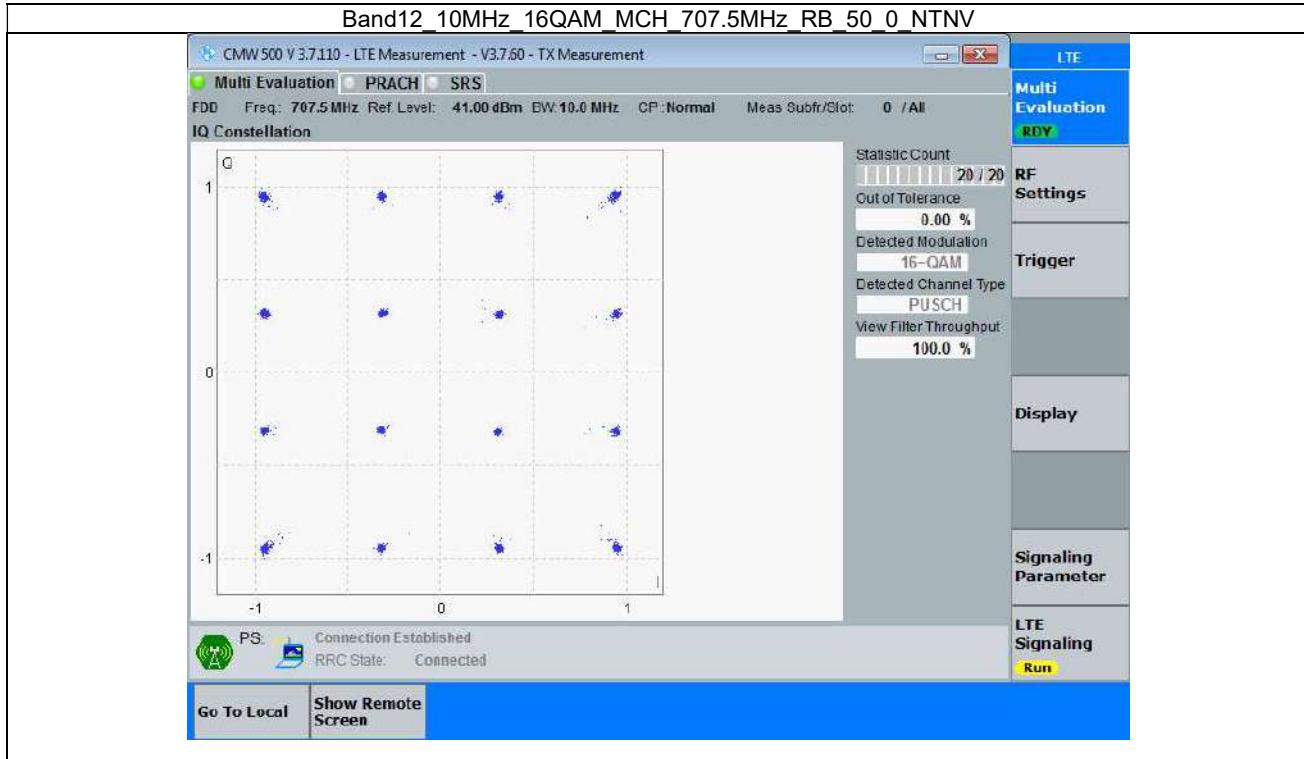
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4. 99% & 26dB Bandwidth

4.1 Band12_OBW

4.1.1 Test Result

Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset		
1.4	QPSK	699.7	6	0	1.114	Pass
		707.5	6	0	1.113	Pass
		715.3	6	0	1.120	Pass
	16QAM	699.7	6	0	1.120	Pass
		707.5	6	0	1.115	Pass
		715.3	6	0	1.114	Pass
3	QPSK	700.5	15	0	2.749	Pass
		707.5	15	0	2.749	Pass
		714.5	15	0	2.753	Pass
	16QAM	700.5	15	0	2.753	Pass
		707.5	15	0	2.735	Pass
		714.5	15	0	2.738	Pass
5	QPSK	701.5	25	0	4.549	Pass
		707.5	25	0	4.556	Pass
		713.5	25	0	4.564	Pass
	16QAM	701.5	25	0	4.576	Pass
		707.5	25	0	4.582	Pass
		713.5	25	0	4.550	Pass
10	QPSK	704	50	0	9.045	Pass
		707.5	50	0	9.103	Pass
		711	50	0	9.017	Pass
	16QAM	704	50	0	9.032	Pass
		707.5	50	0	9.090	Pass
		711	50	0	9.039	Pass

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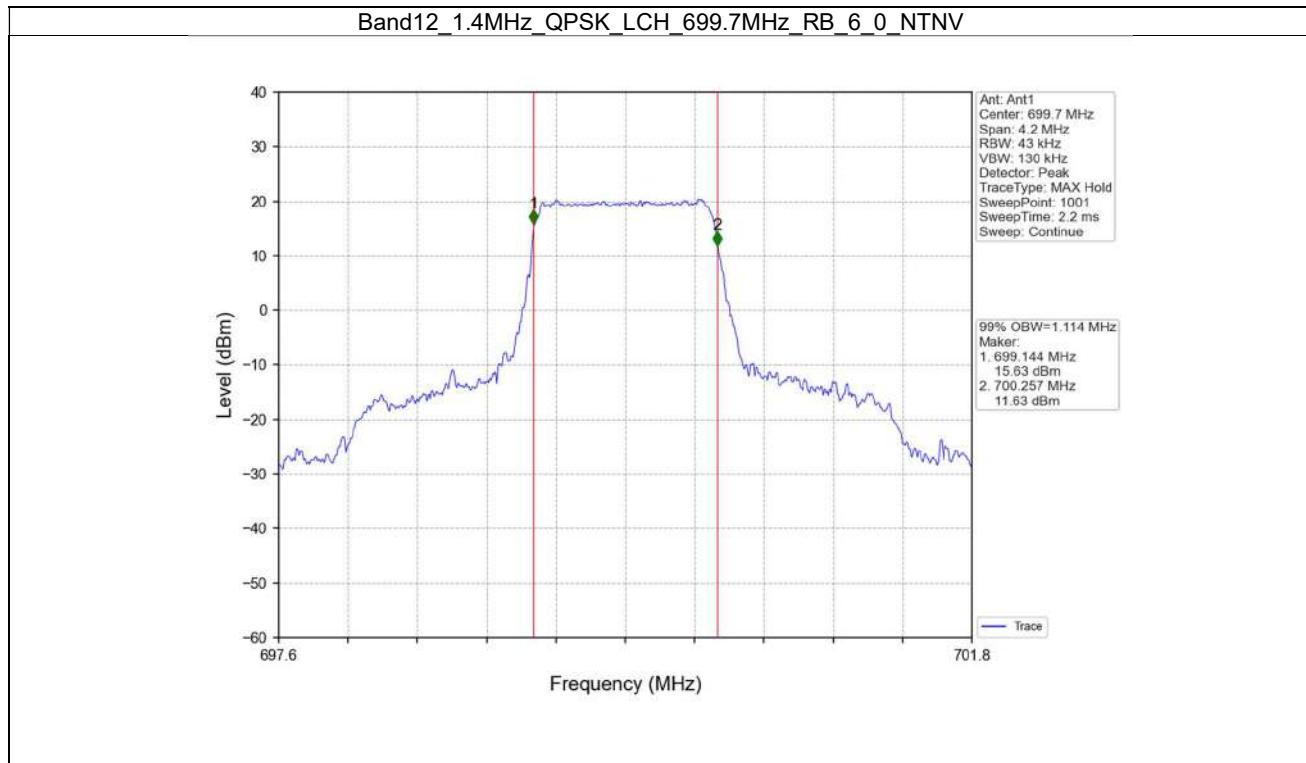
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4.1.2 Test Graph



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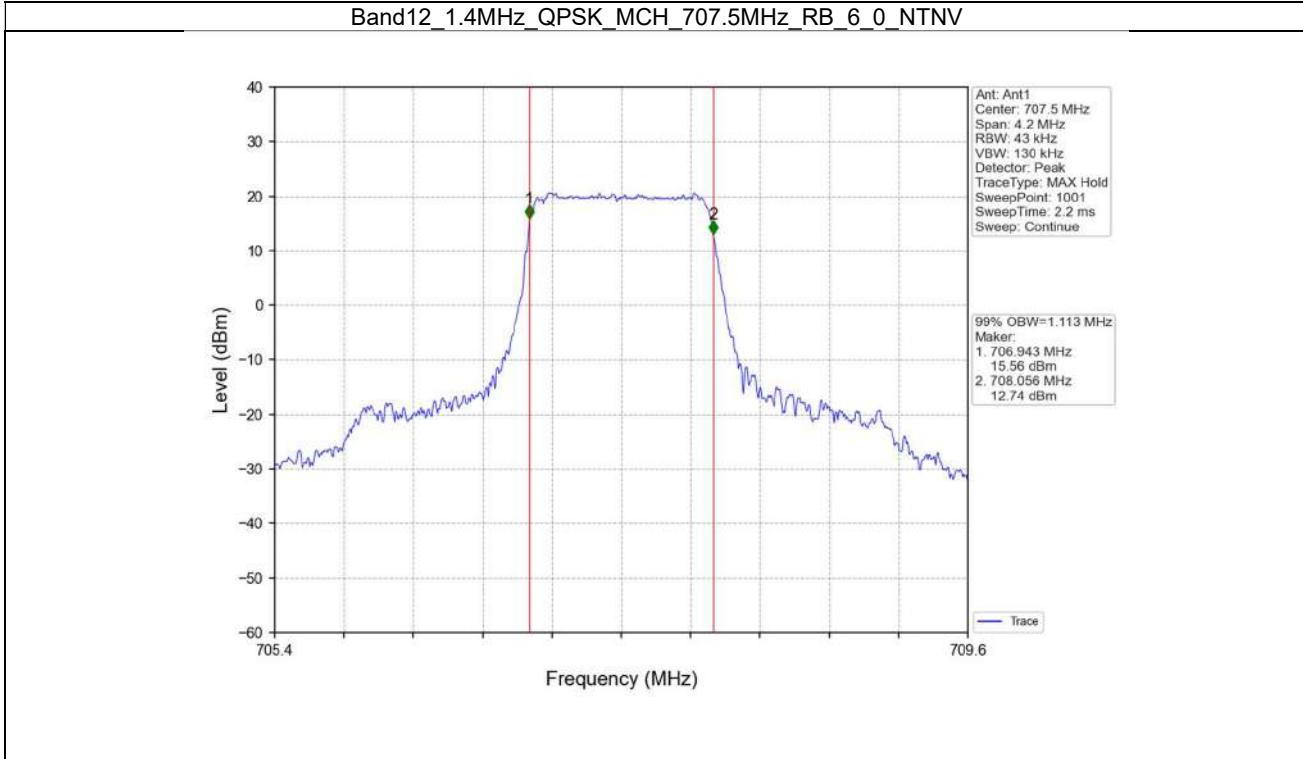
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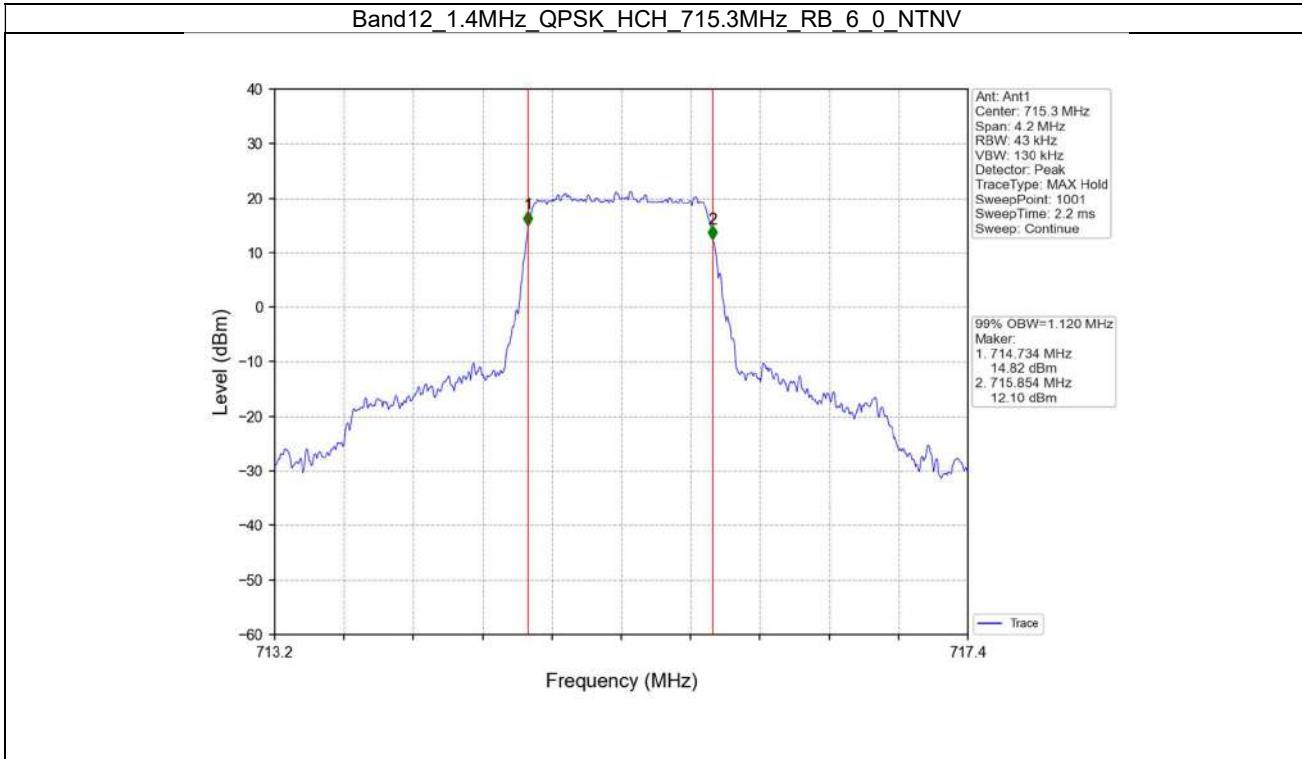
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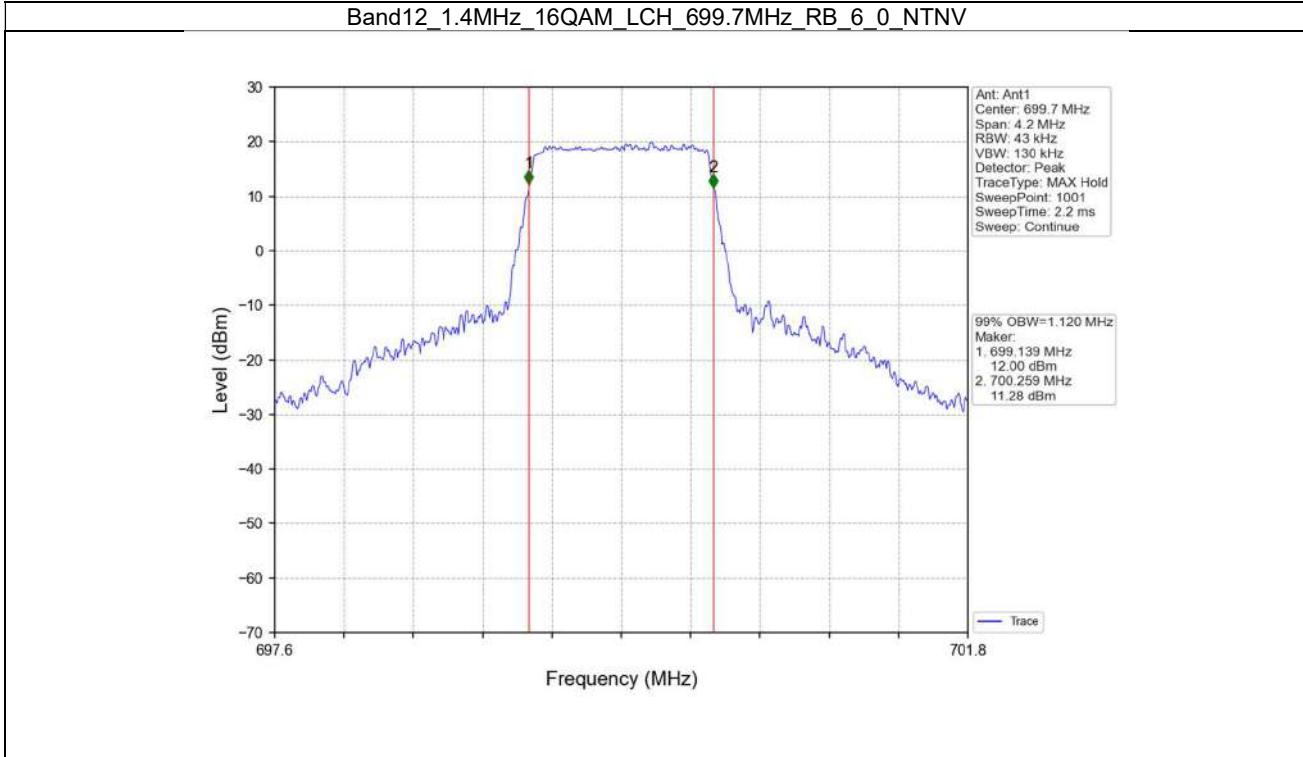
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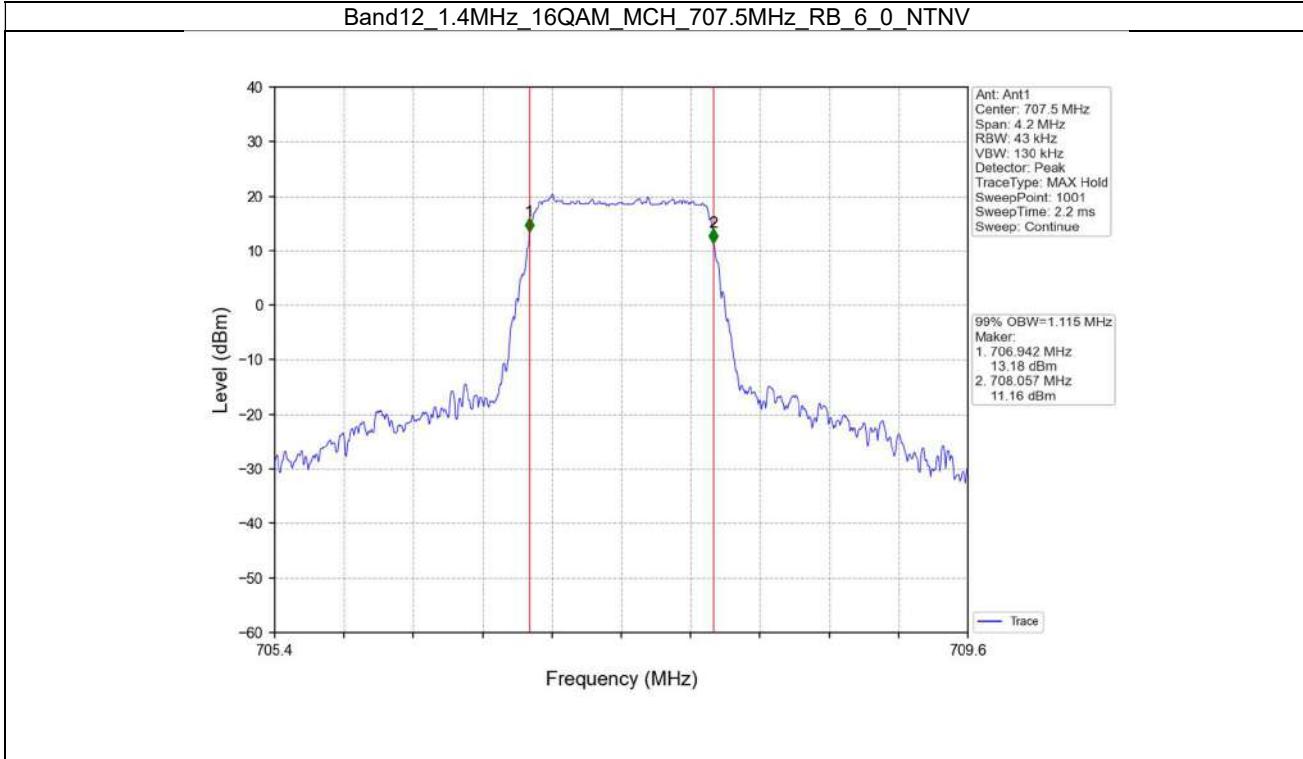
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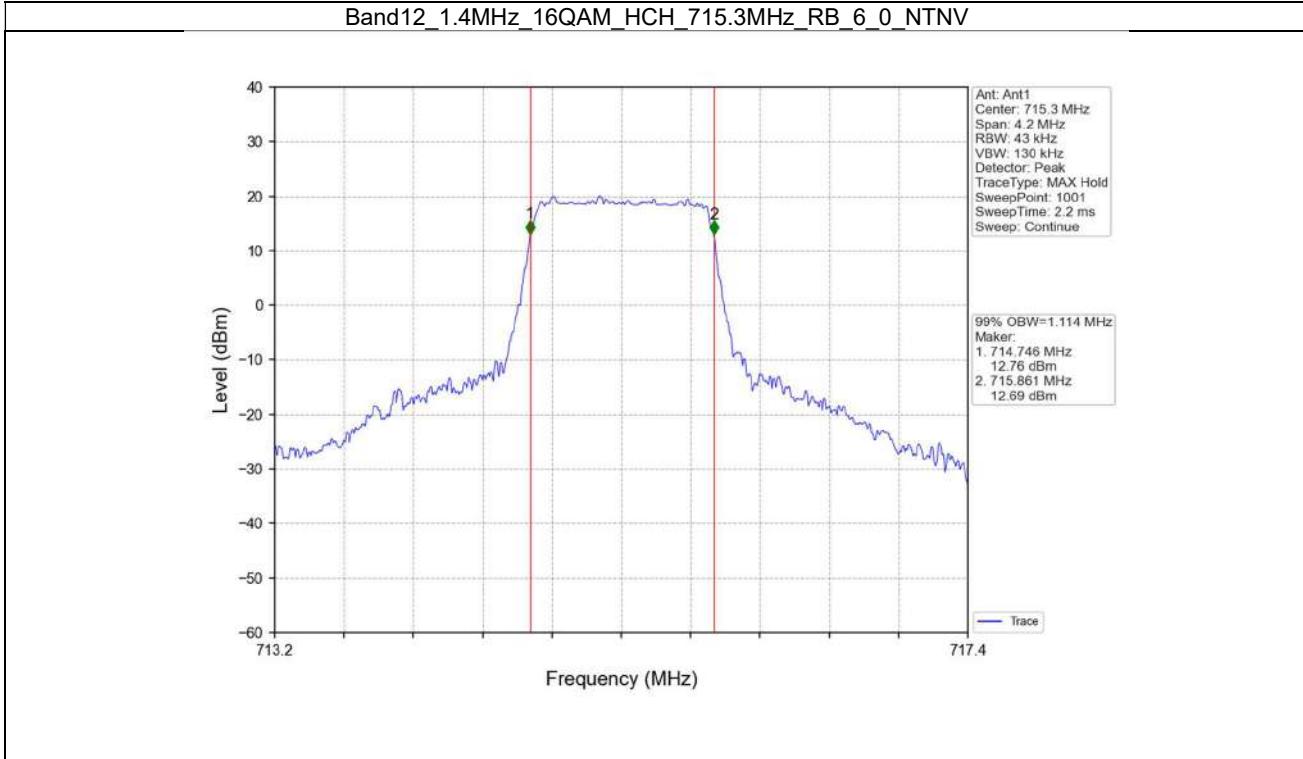
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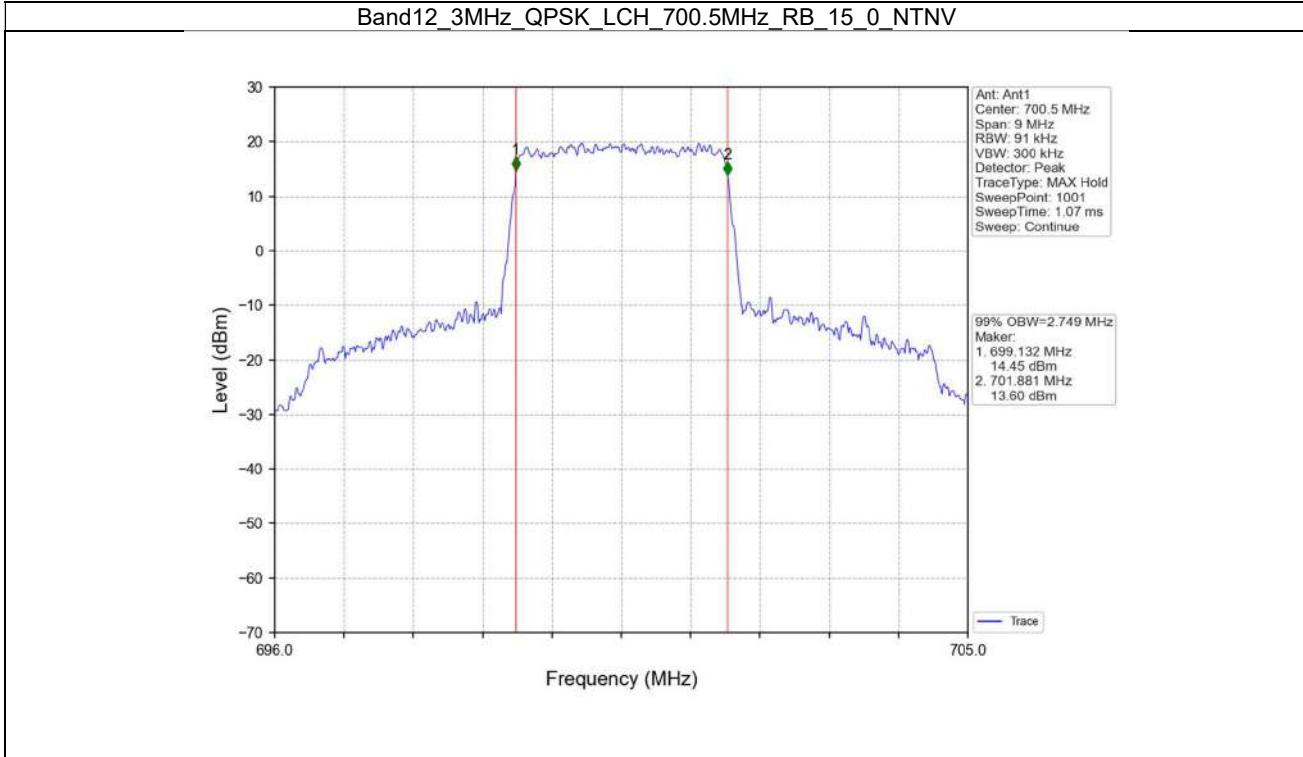
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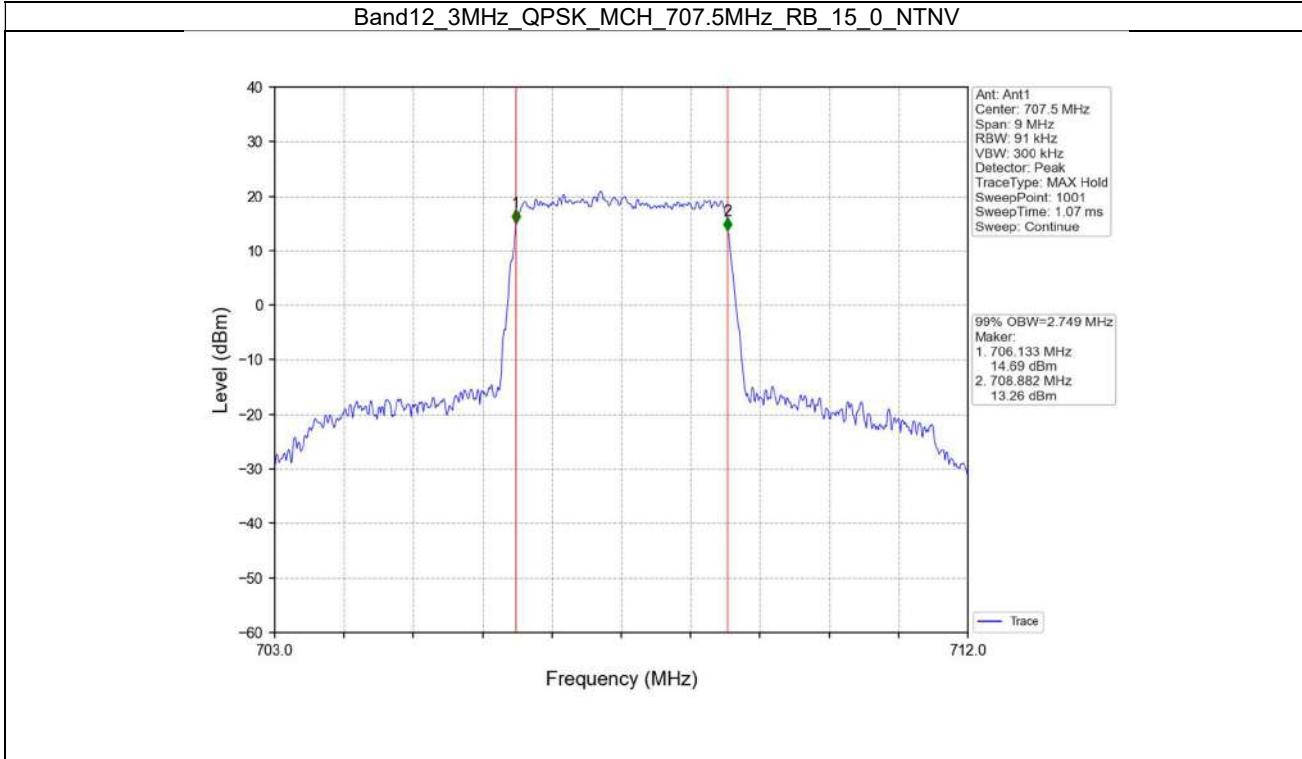
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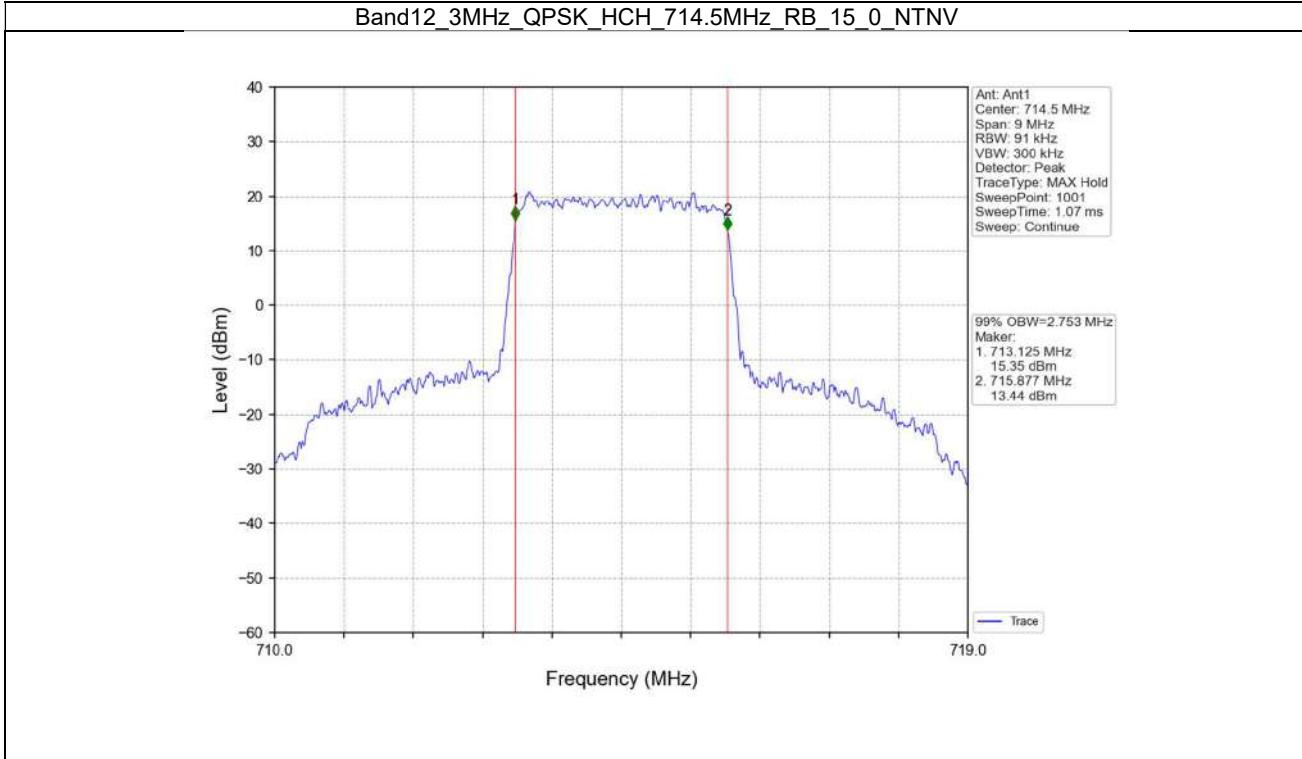
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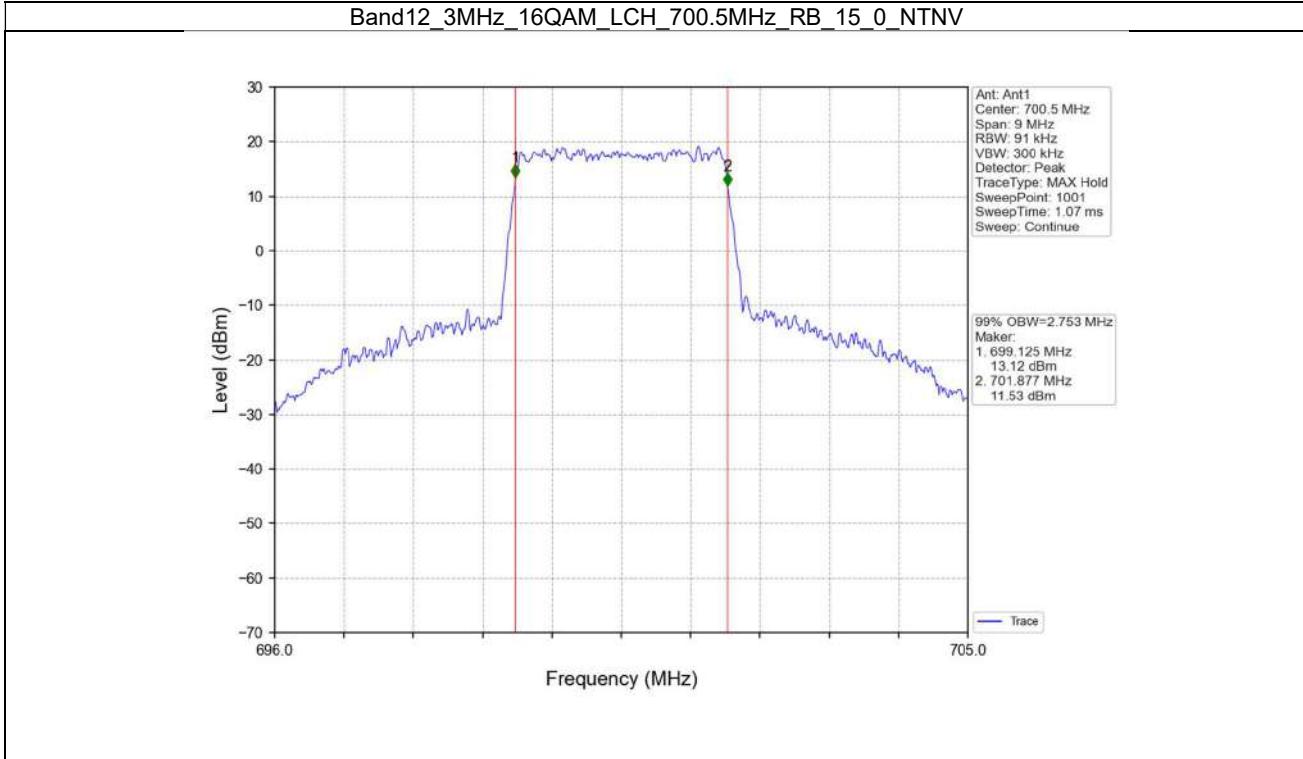
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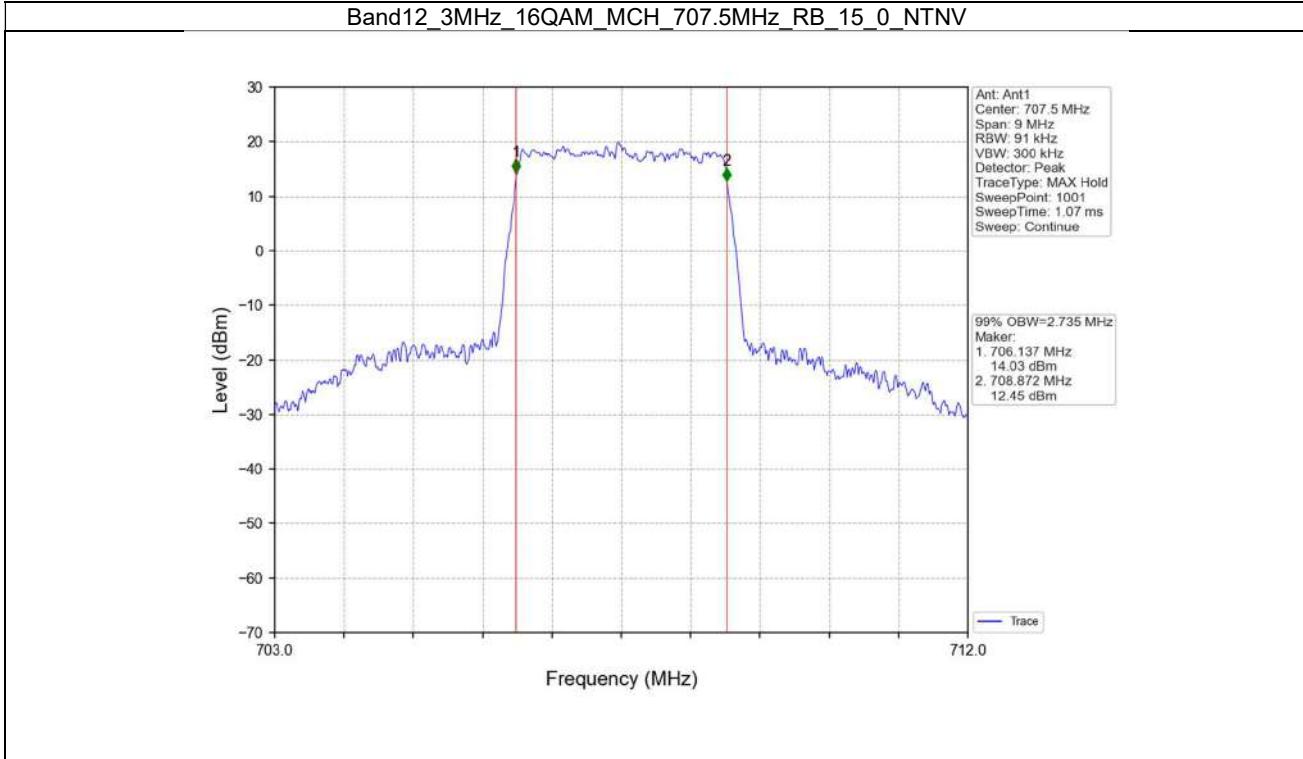
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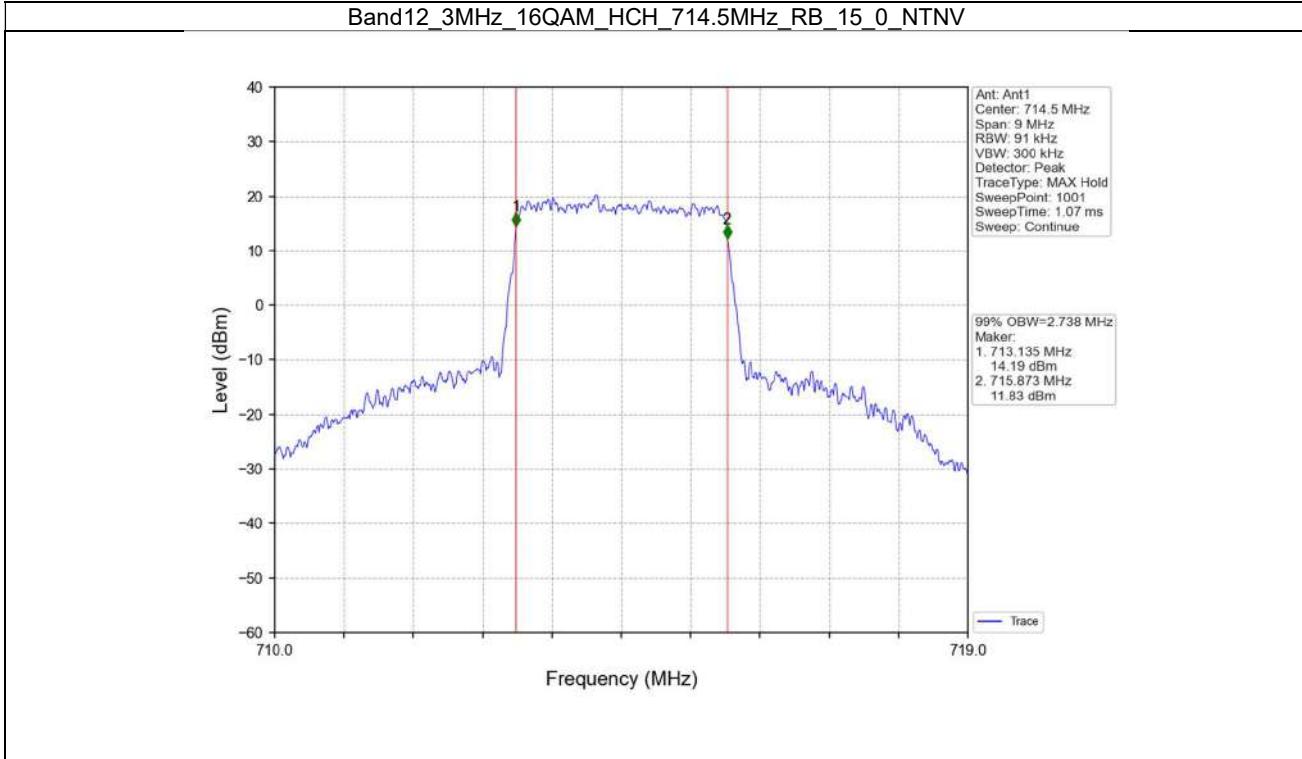
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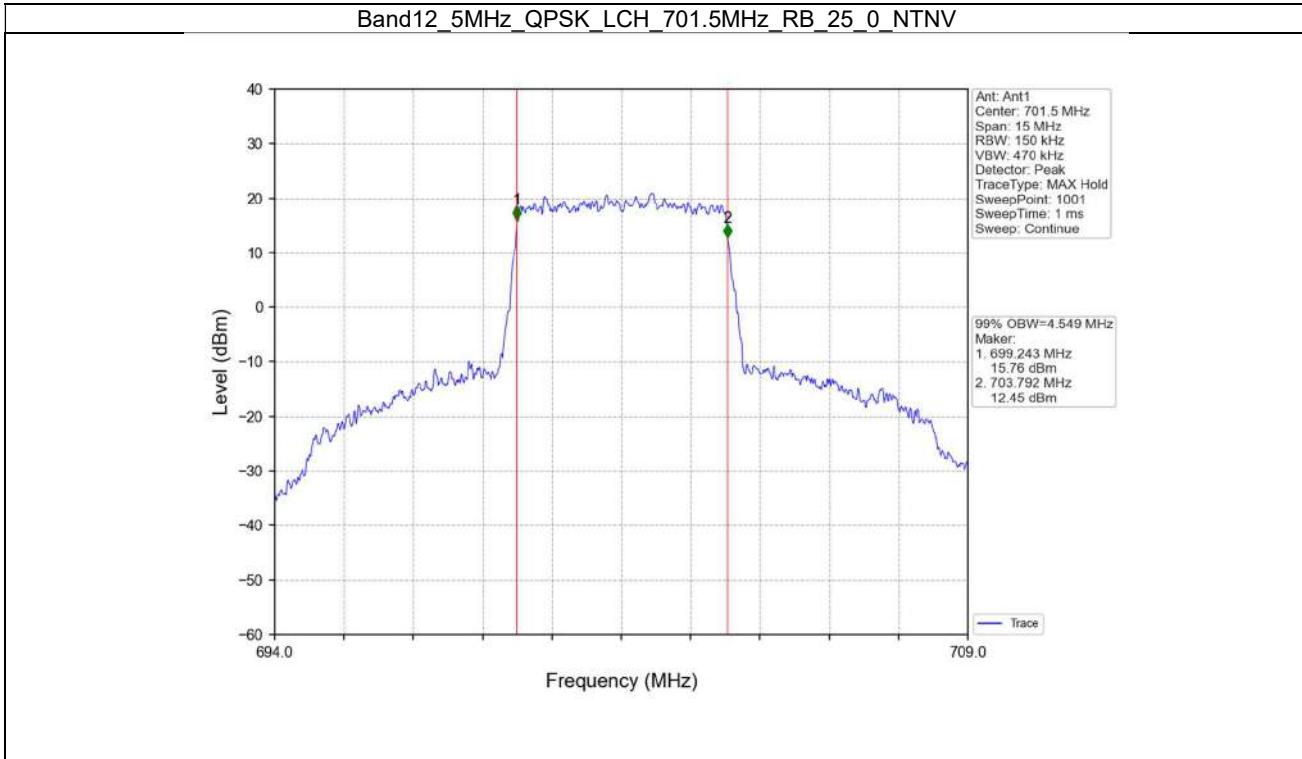
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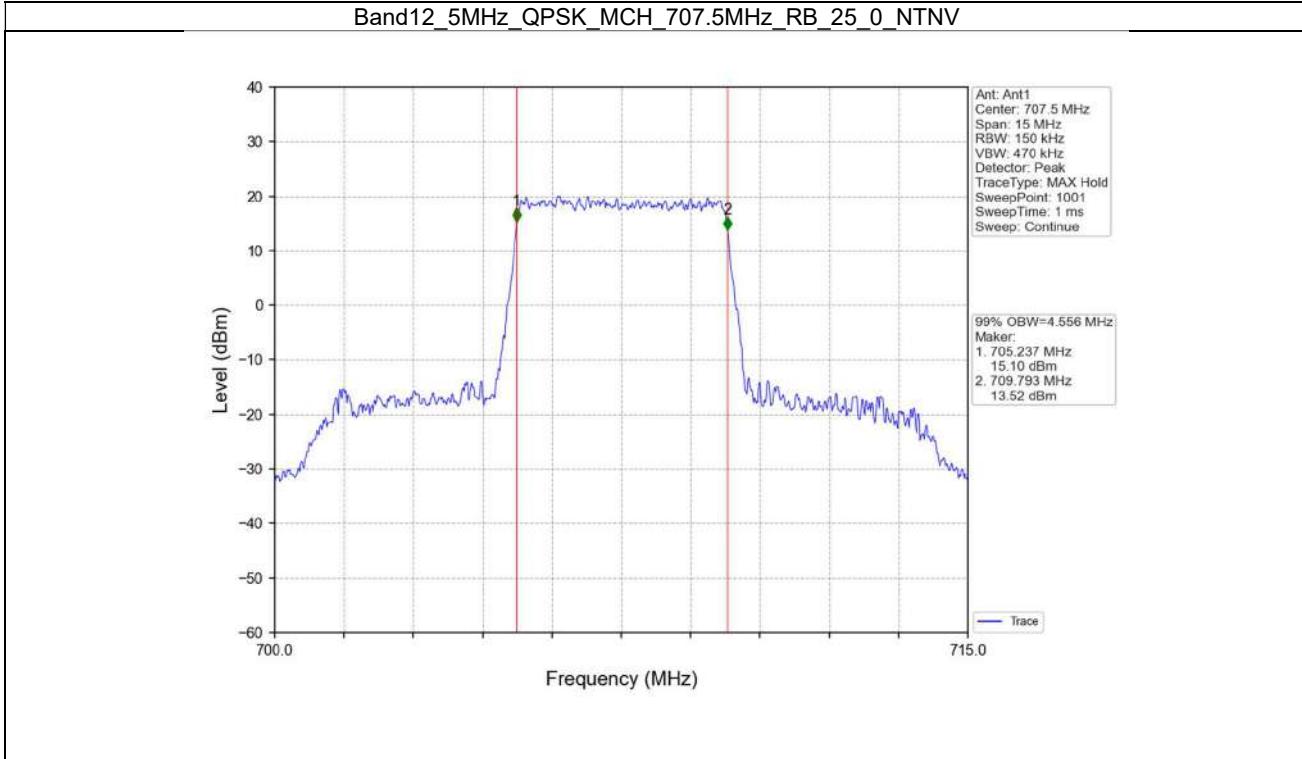
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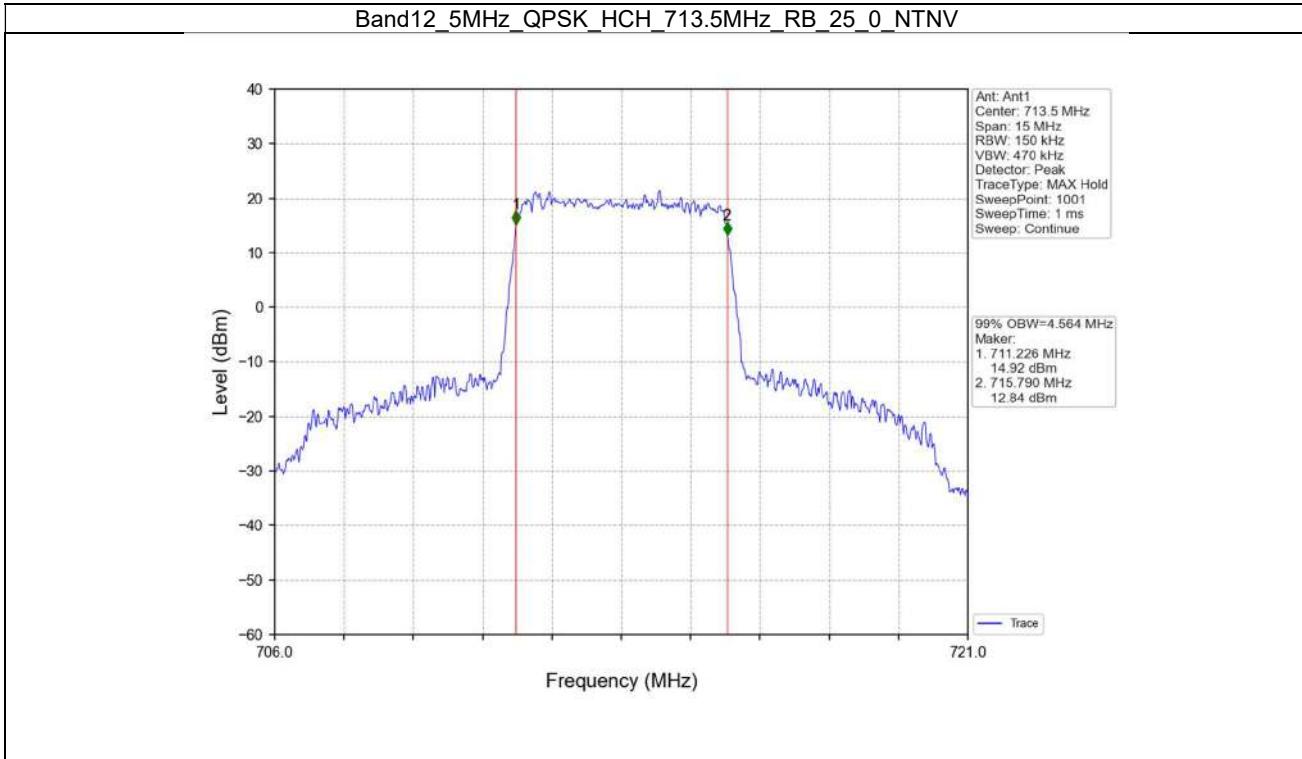
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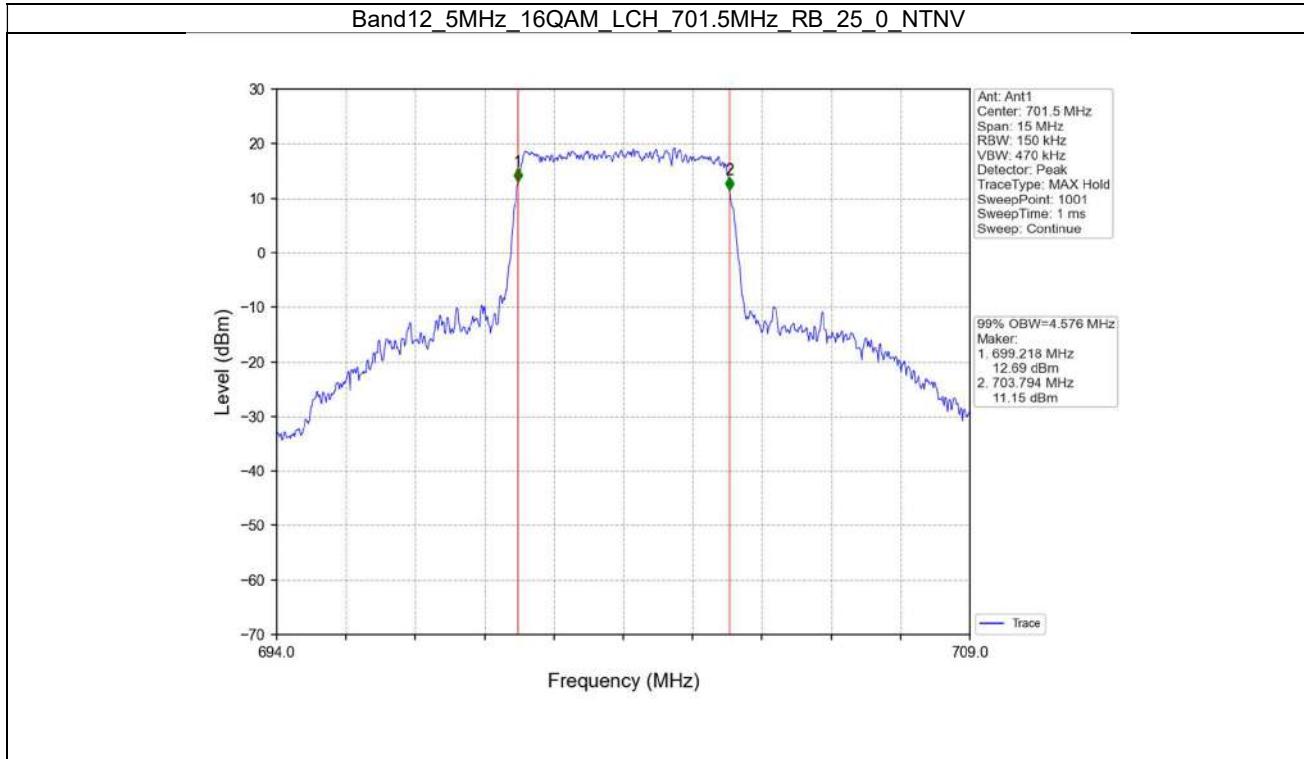
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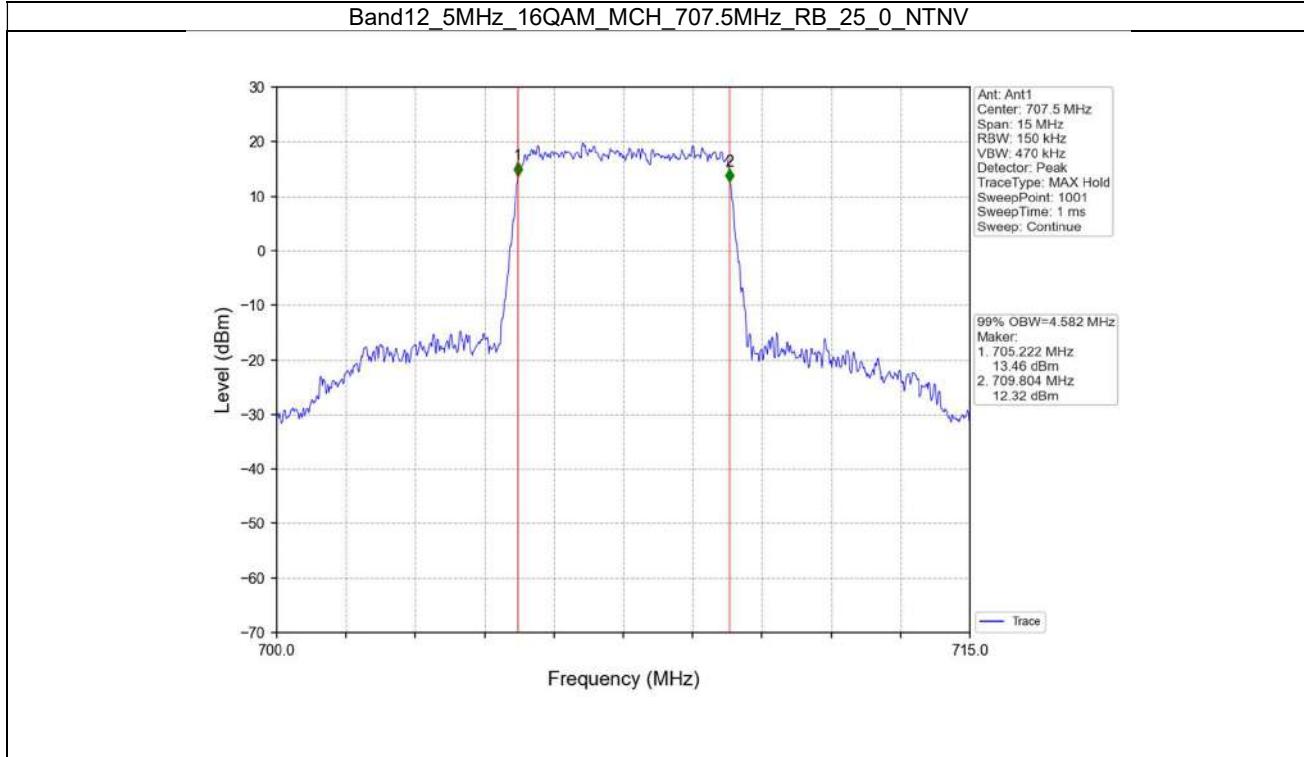


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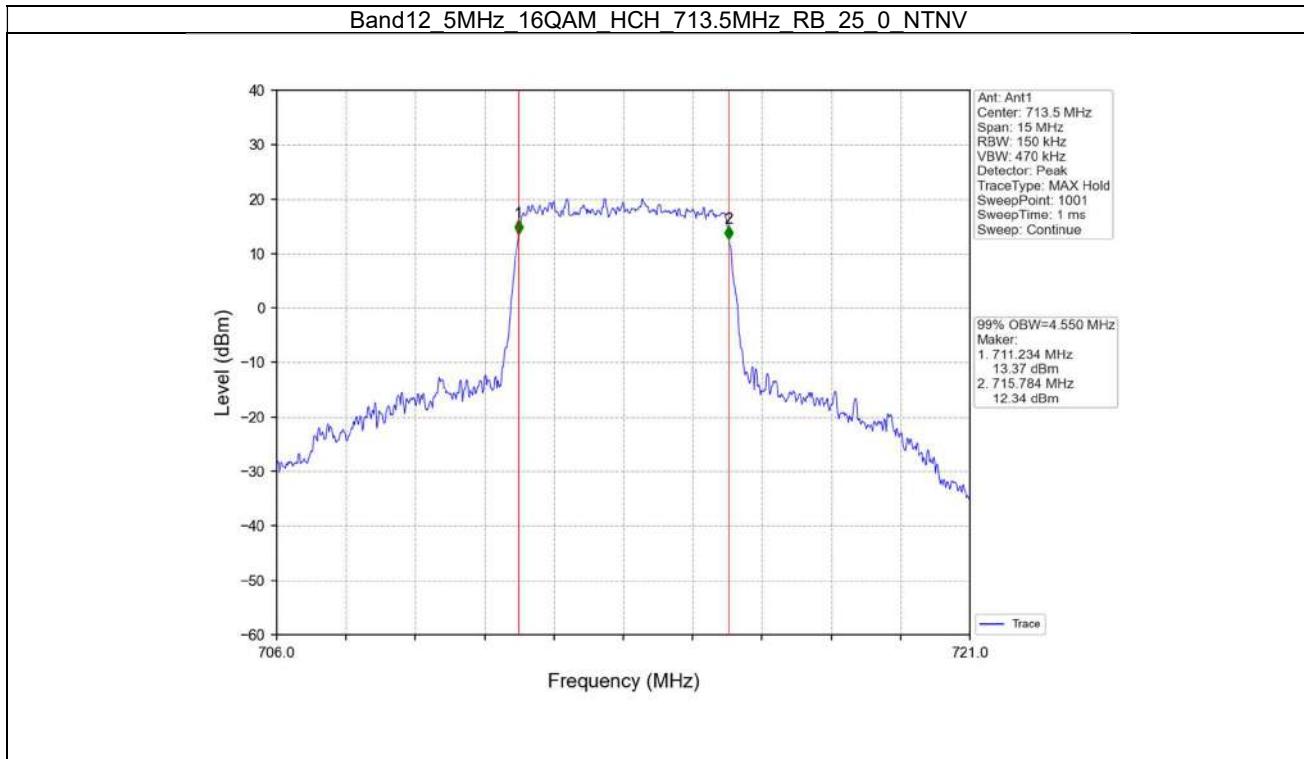
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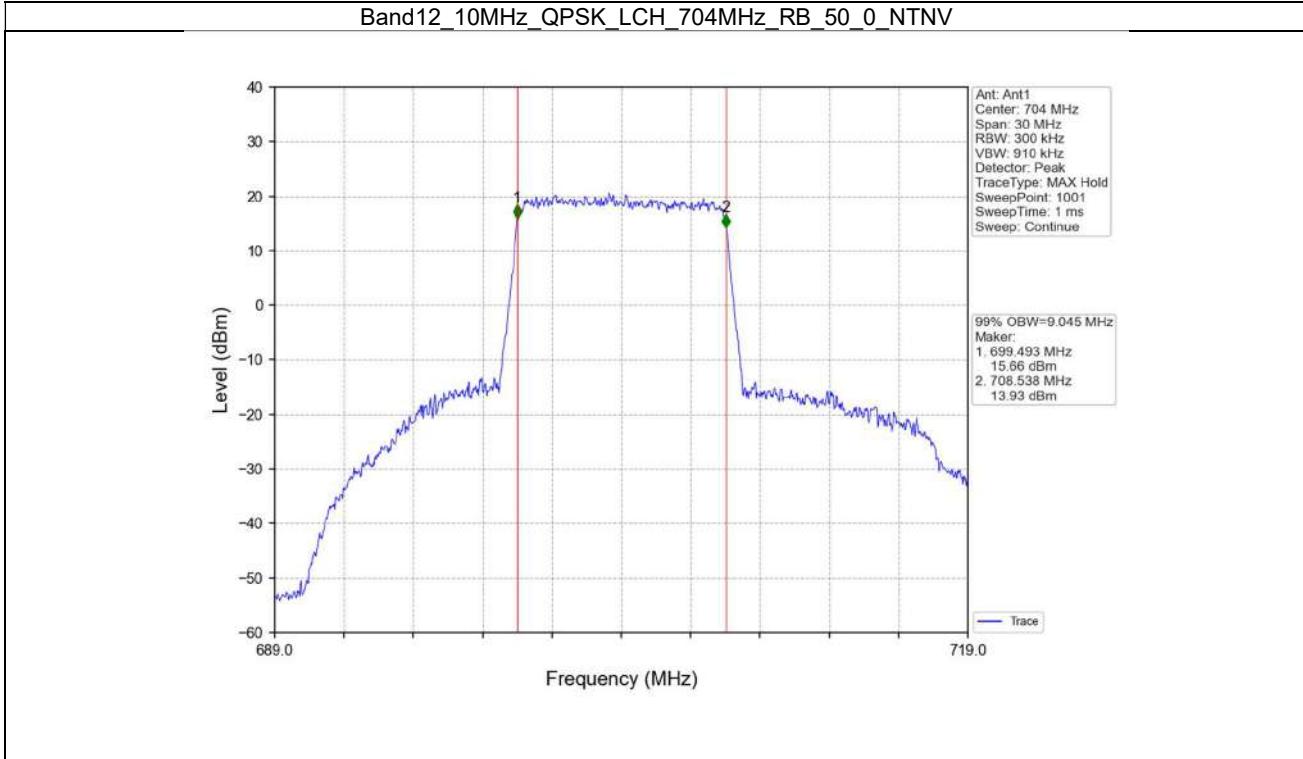
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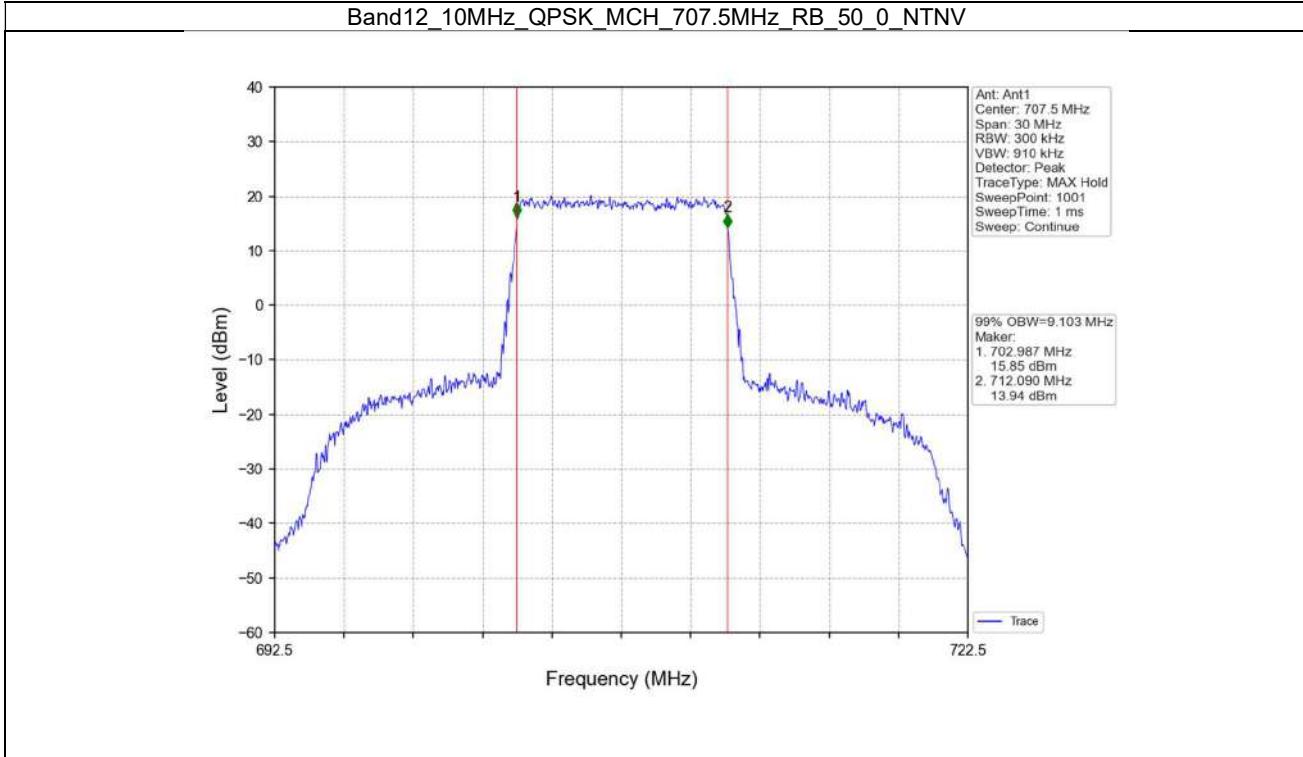
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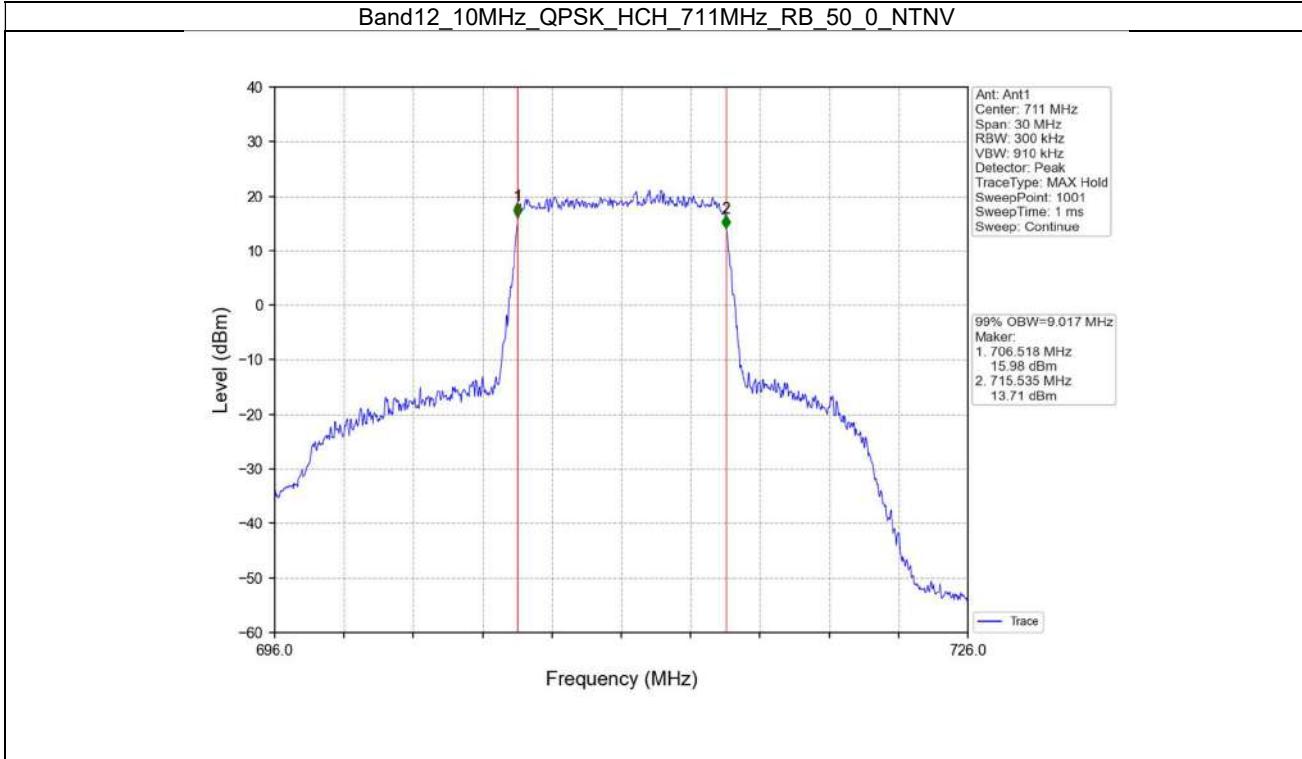
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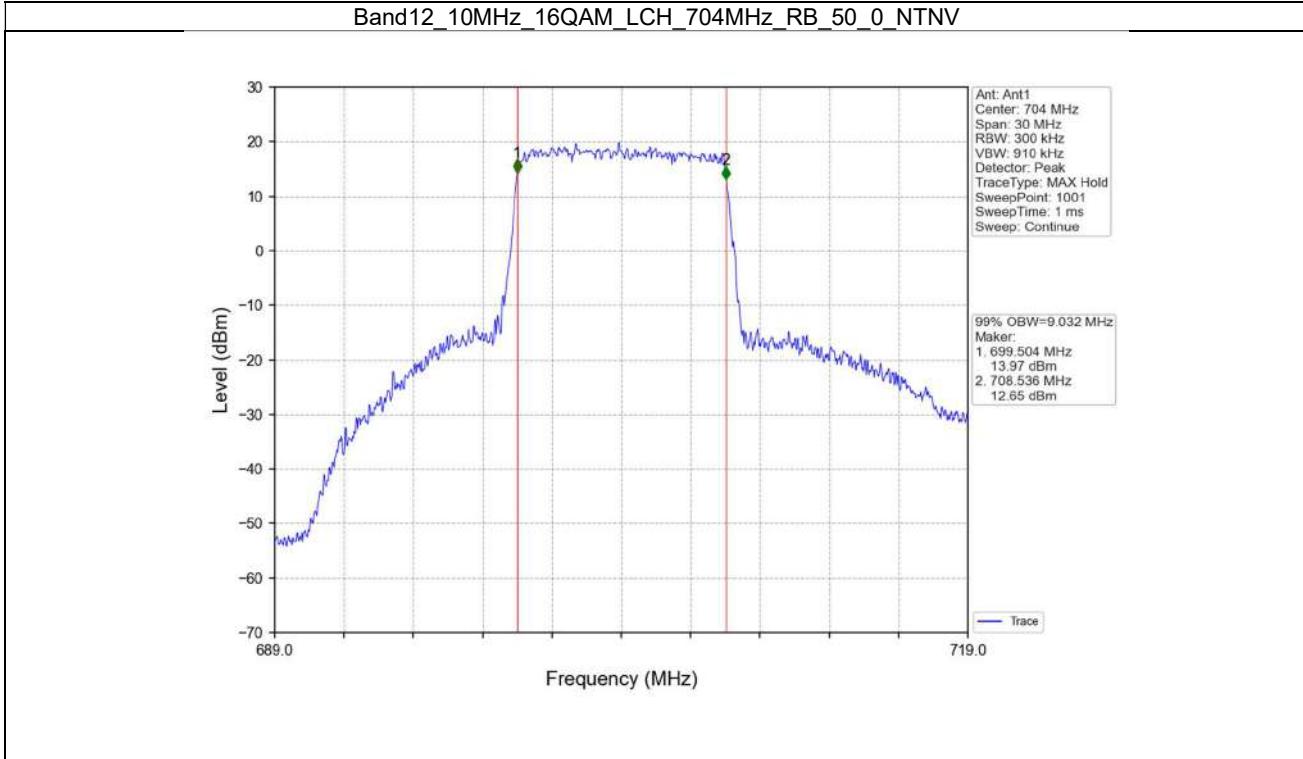
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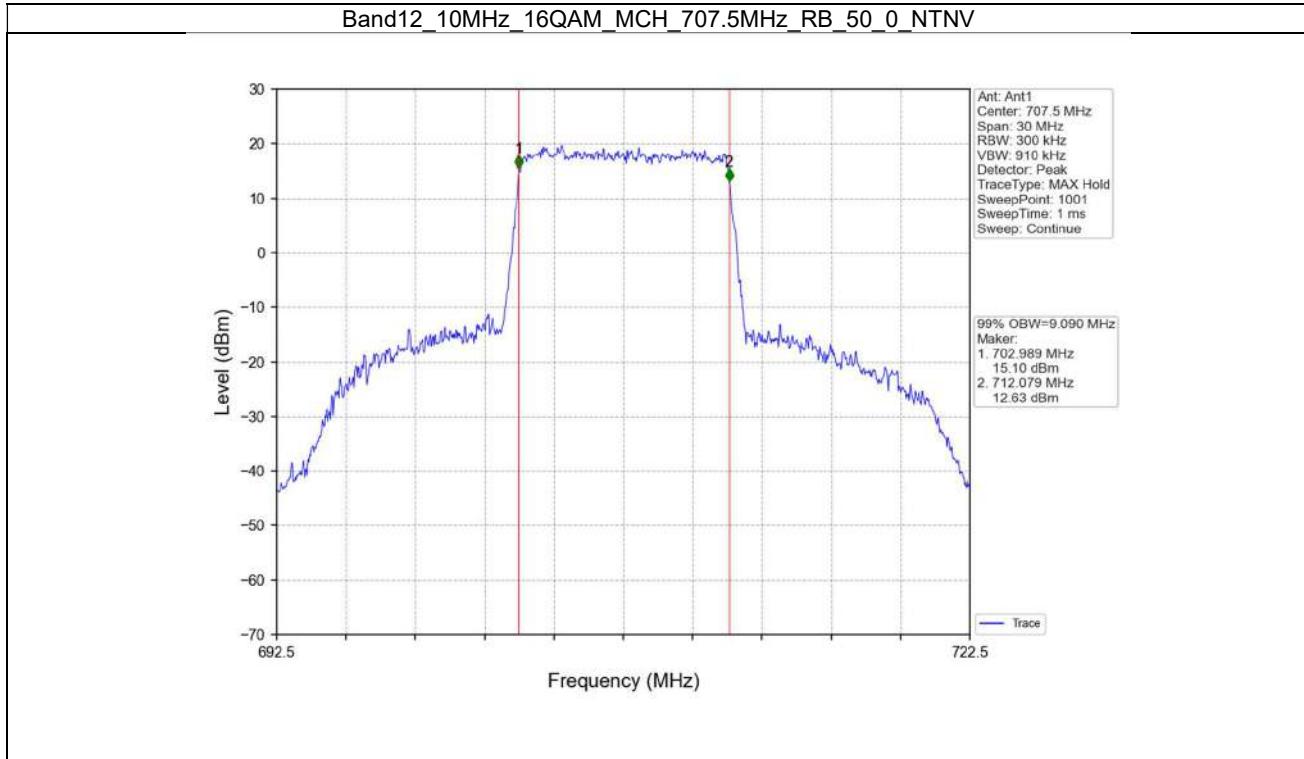


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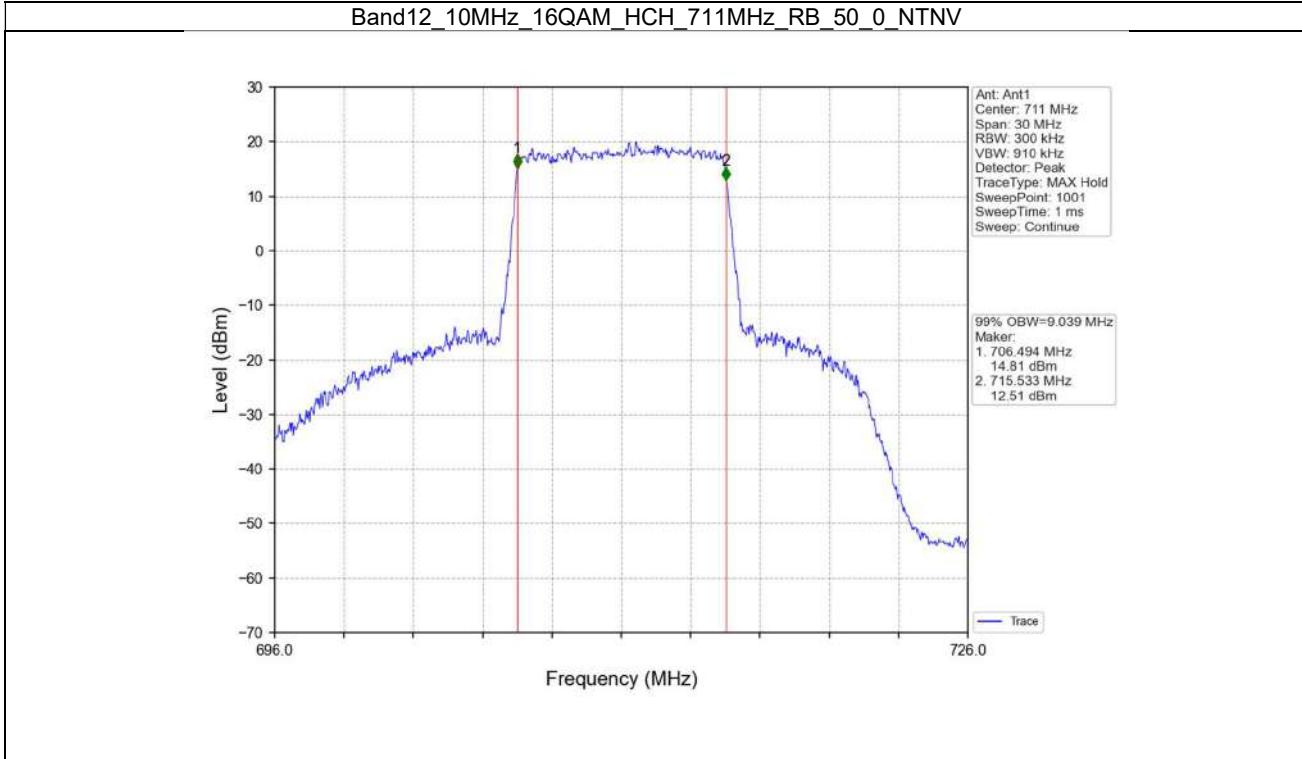
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4.2 Band12_XDB

4.2.1 Test Result

Band: 12 / NTN						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset		
1.4	QPSK	699.7	6	0	1.346	Pass
		707.5	6	0	1.322	Pass
		715.3	6	0	1.331	Pass
	16QAM	699.7	6	0	1.332	Pass
		707.5	6	0	1.341	Pass
		715.3	6	0	1.337	Pass
3	QPSK	700.5	15	0	3.069	Pass
		707.5	15	0	3.063	Pass
		714.5	15	0	3.041	Pass
	16QAM	700.5	15	0	3.077	Pass
		707.5	15	0	3.058	Pass
		714.5	15	0	3.055	Pass
5	QPSK	701.5	25	0	5.091	Pass
		707.5	25	0	5.129	Pass
		713.5	25	0	5.058	Pass
	16QAM	701.5	25	0	5.076	Pass
		707.5	25	0	5.061	Pass
		713.5	25	0	5.027	Pass
10	QPSK	704	50	0	10.009	Pass
		707.5	50	0	10.221	Pass
		711	50	0	10.030	Pass
	16QAM	704	50	0	9.956	Pass
		707.5	50	0	10.062	Pass
		711	50	0	10.019	Pass

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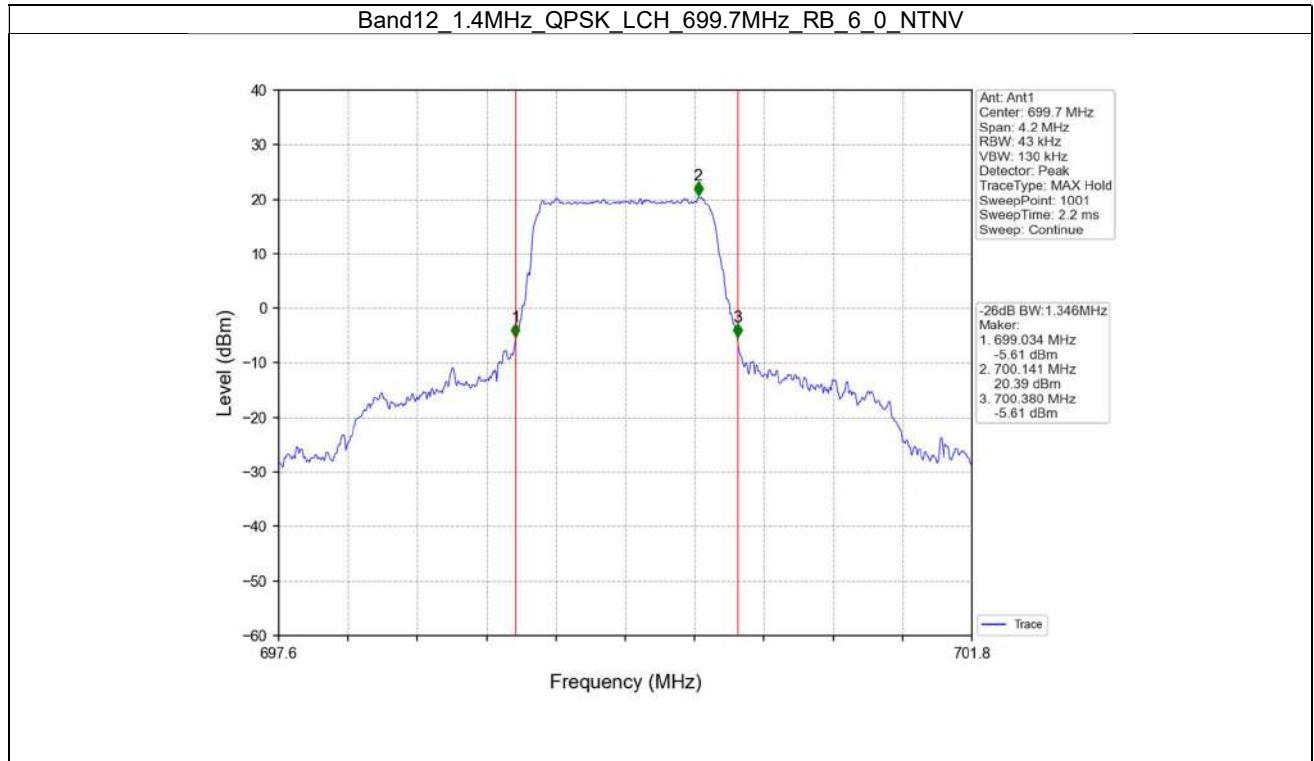
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4.2.2 Test Graph



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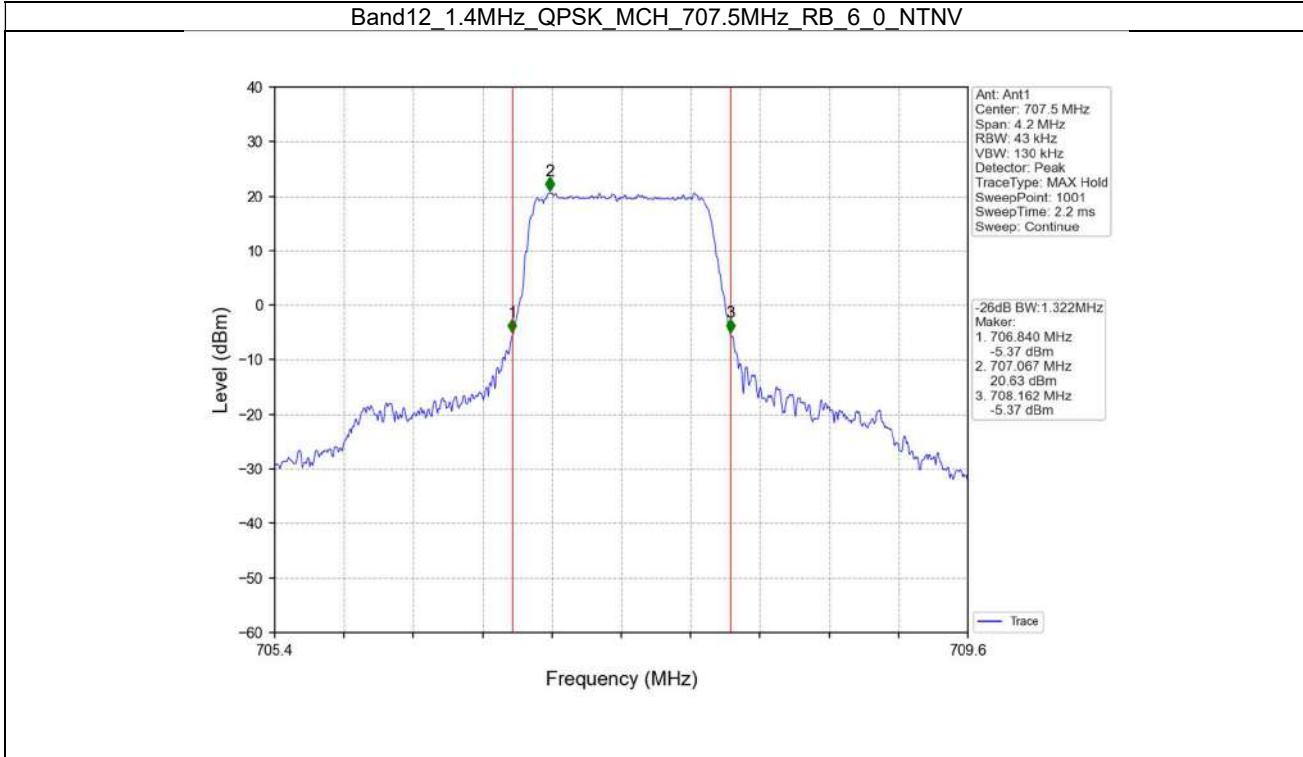
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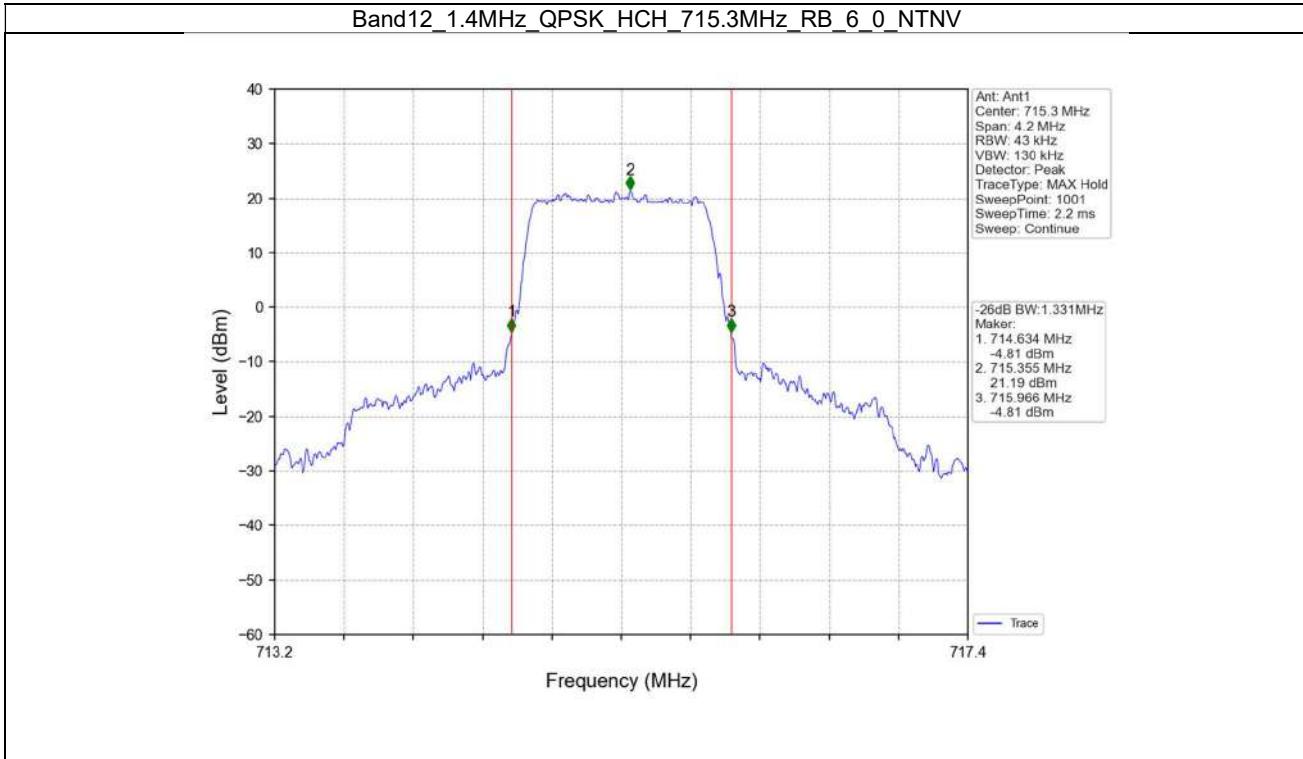
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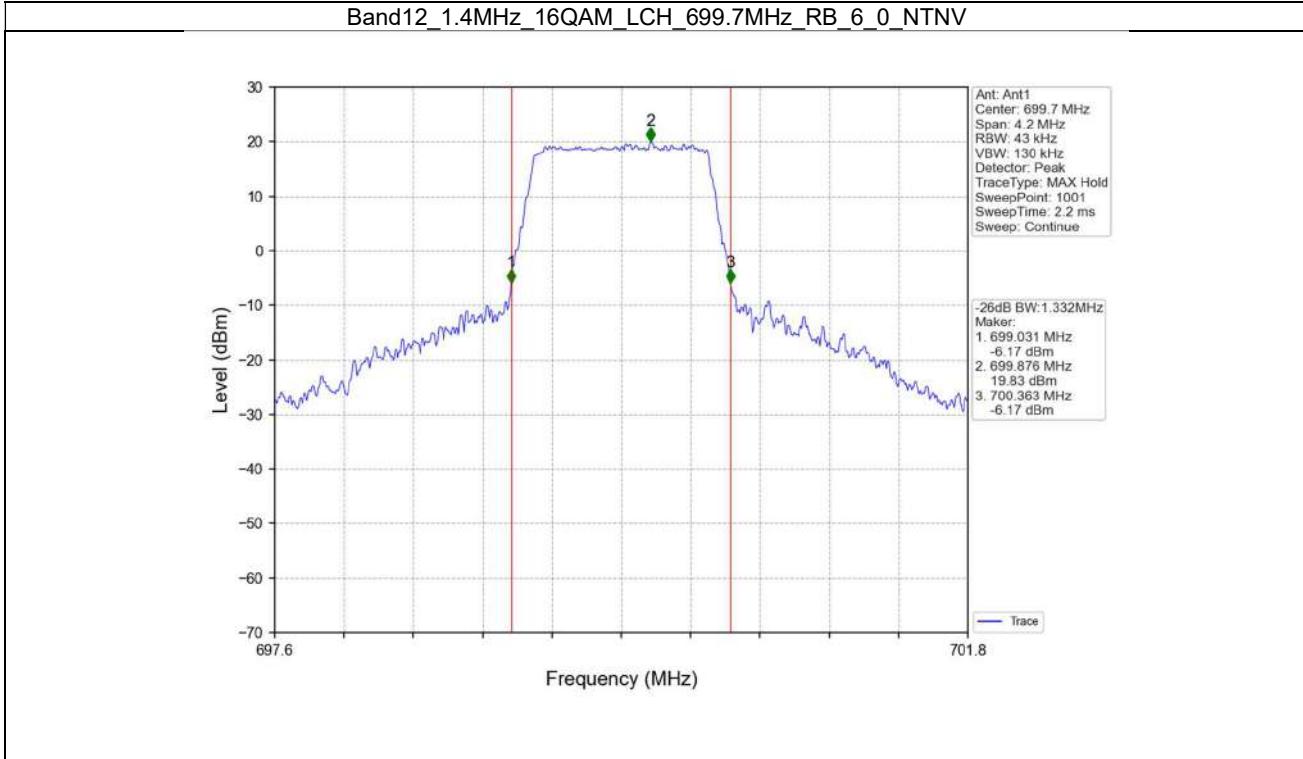
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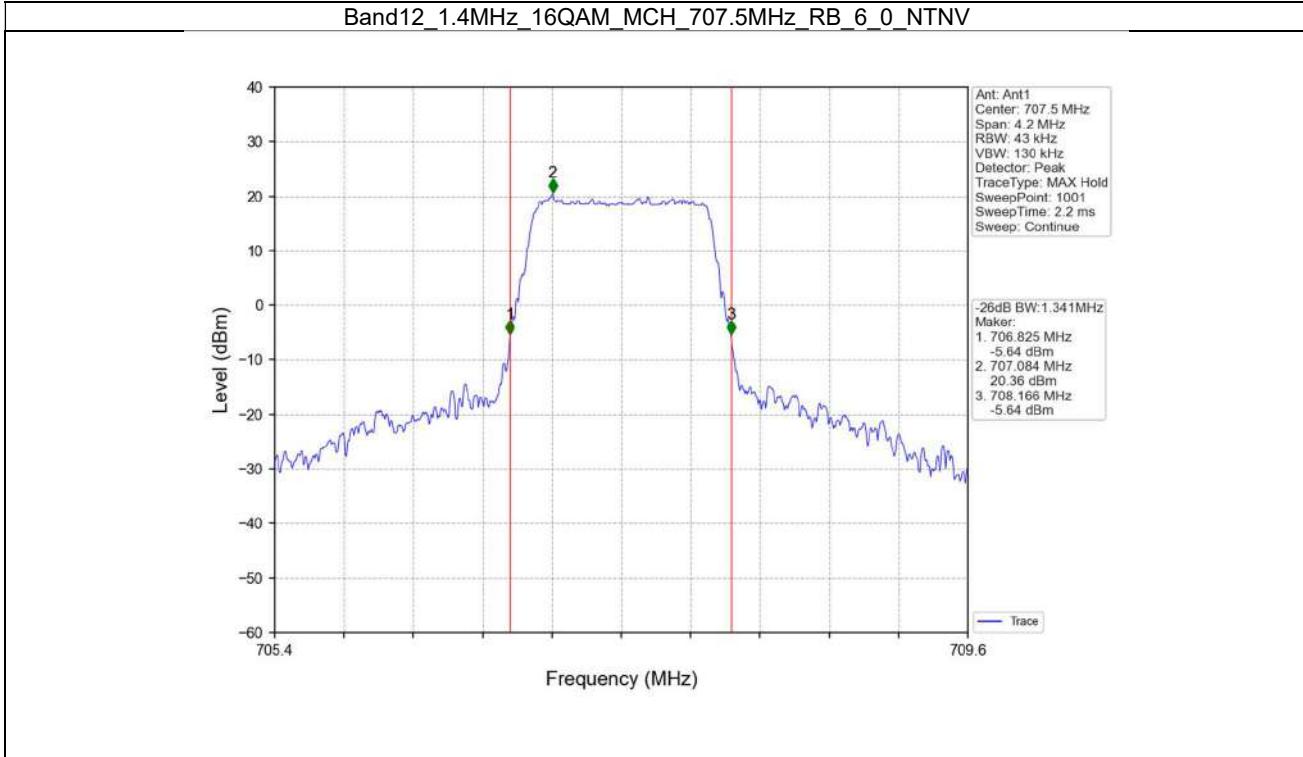
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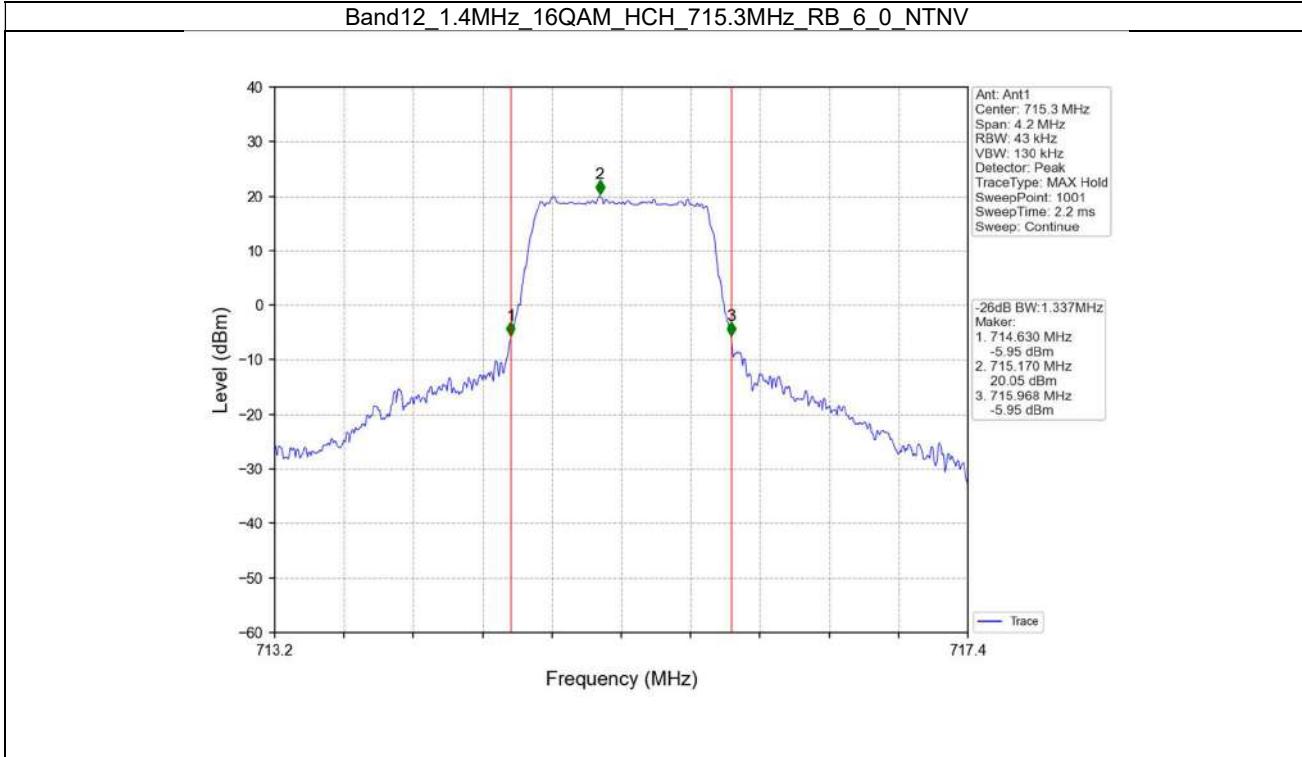
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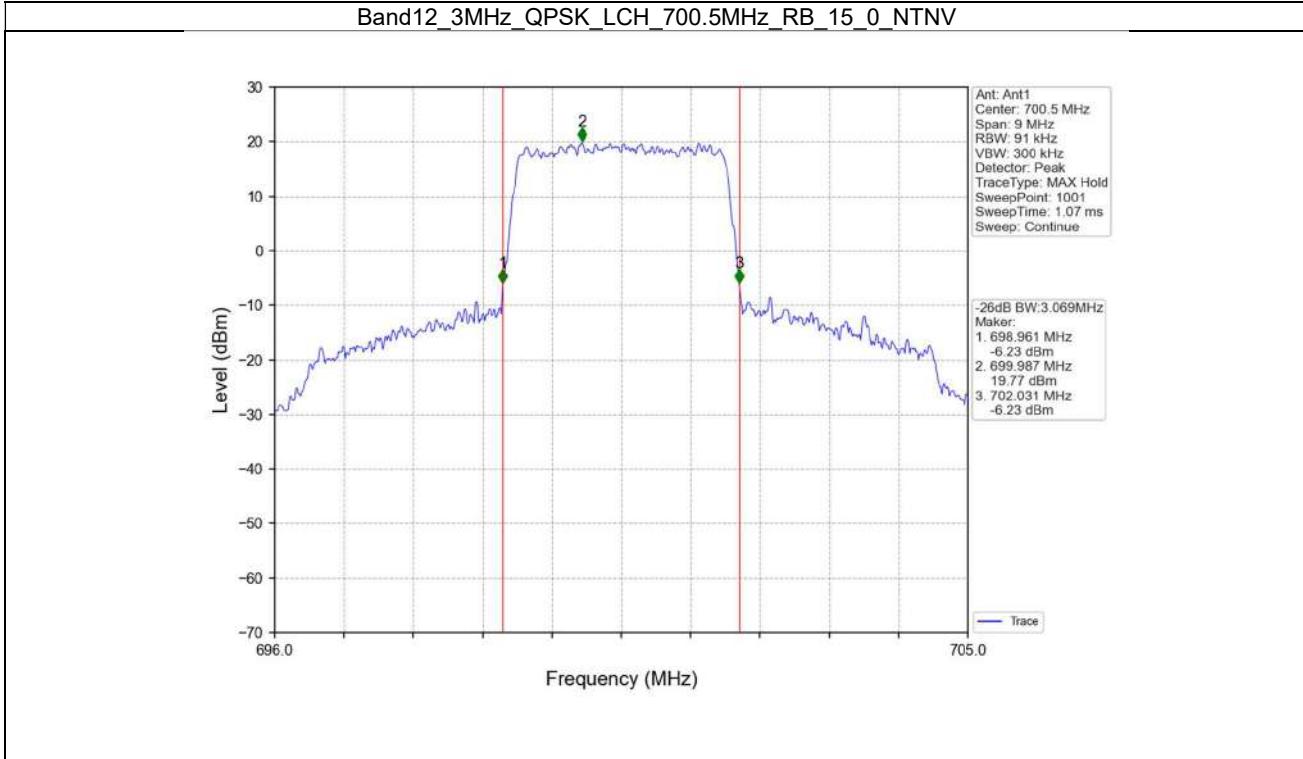
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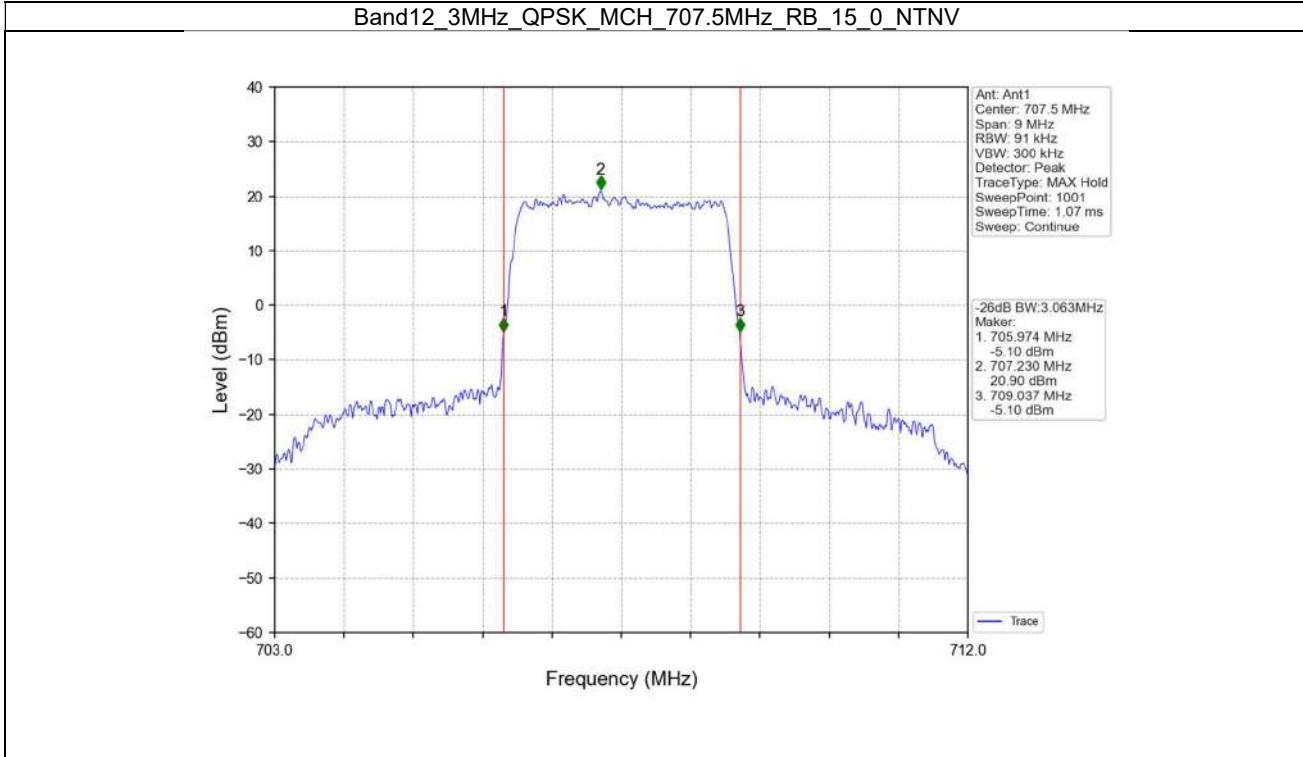
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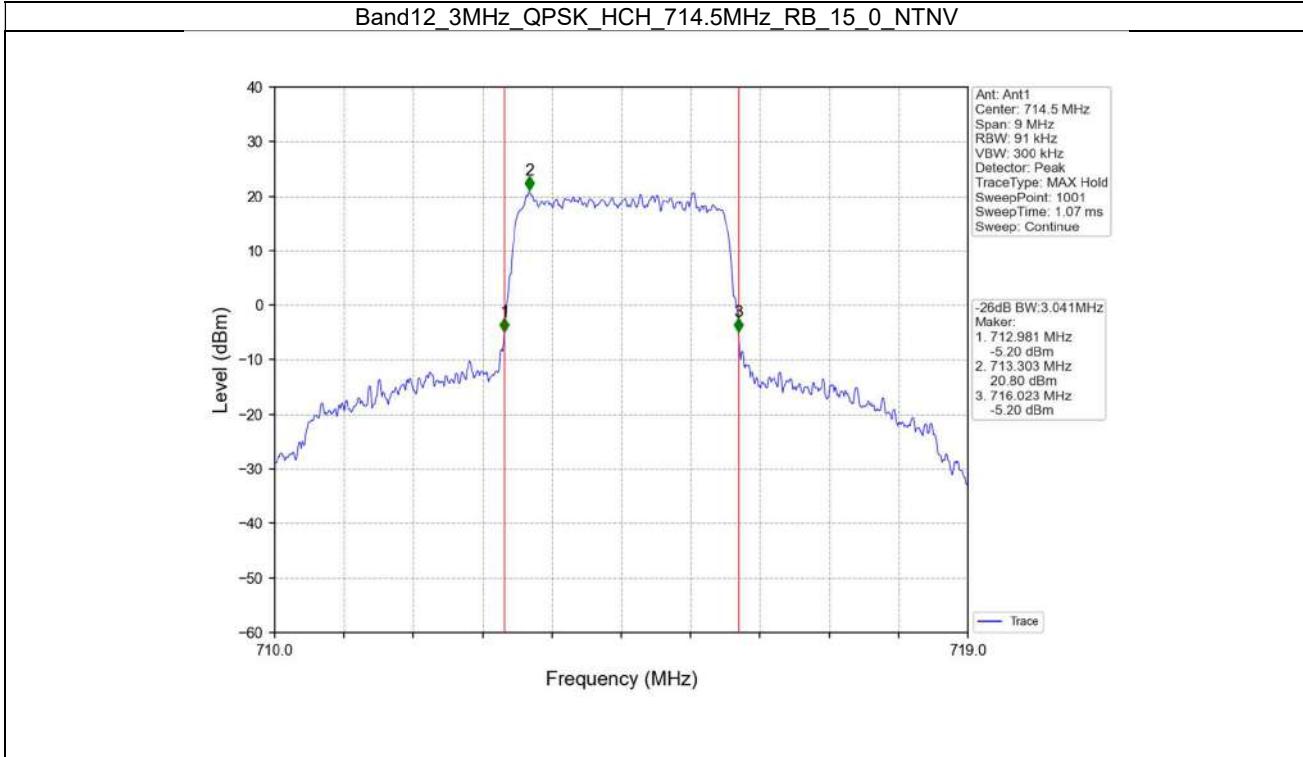
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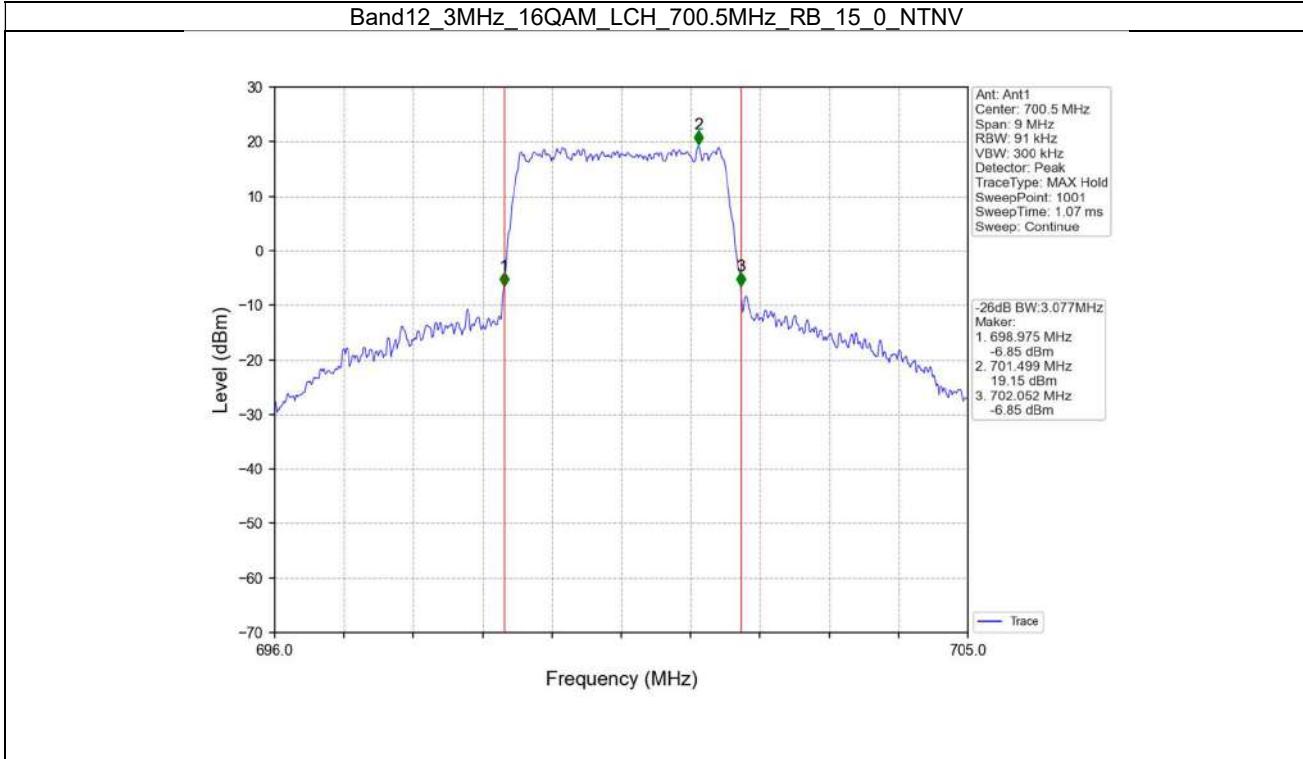
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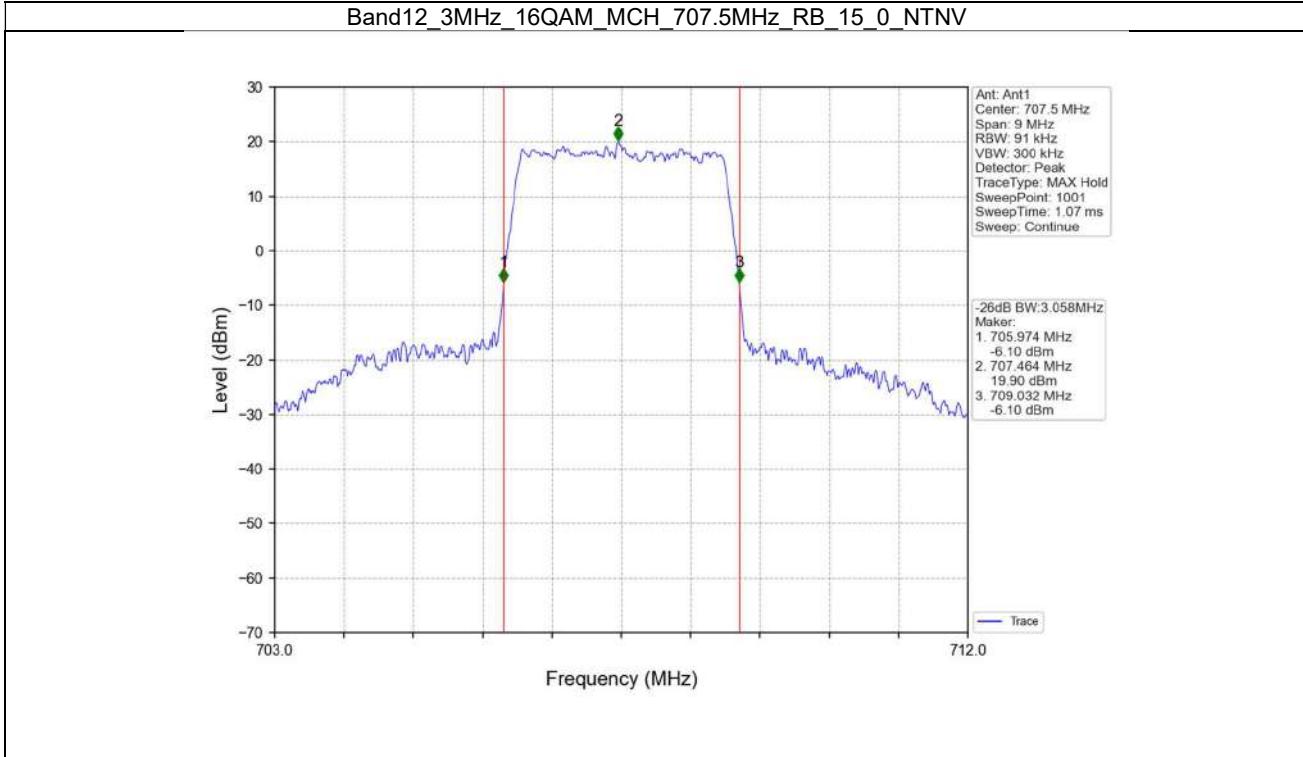
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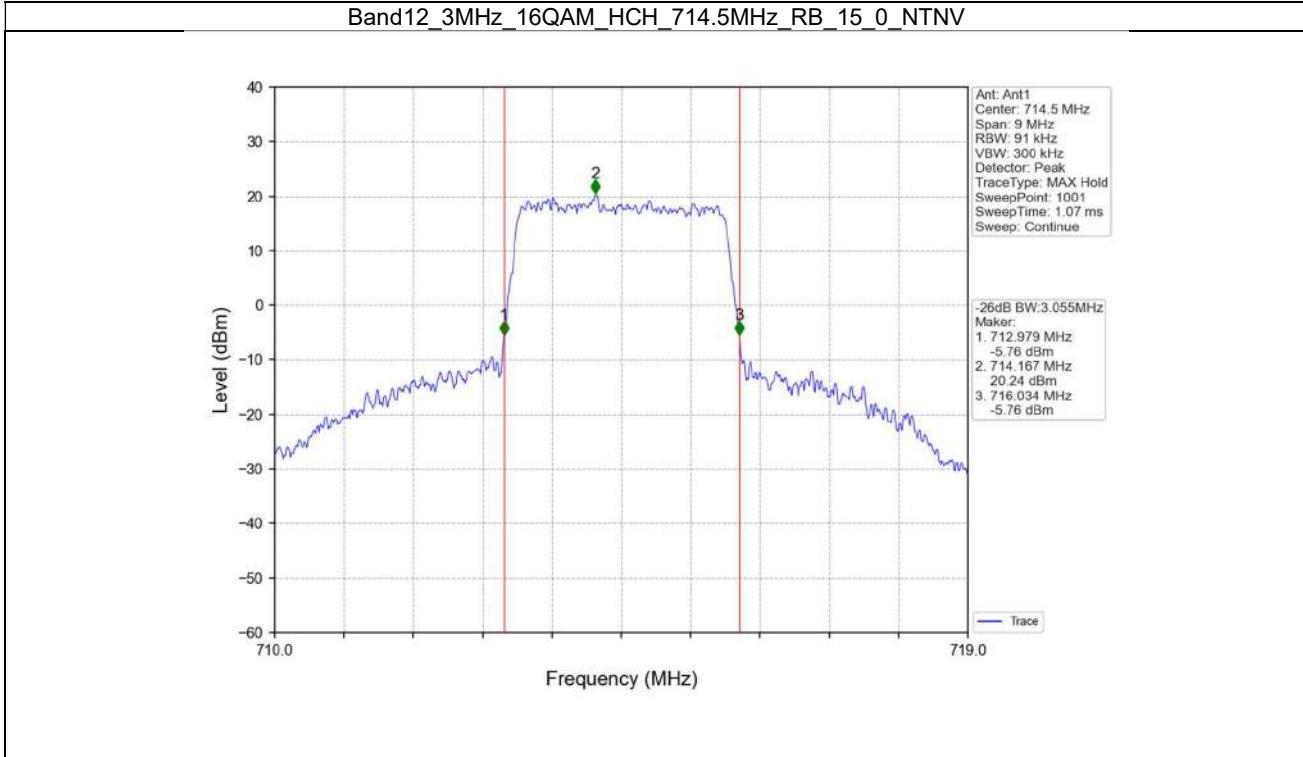
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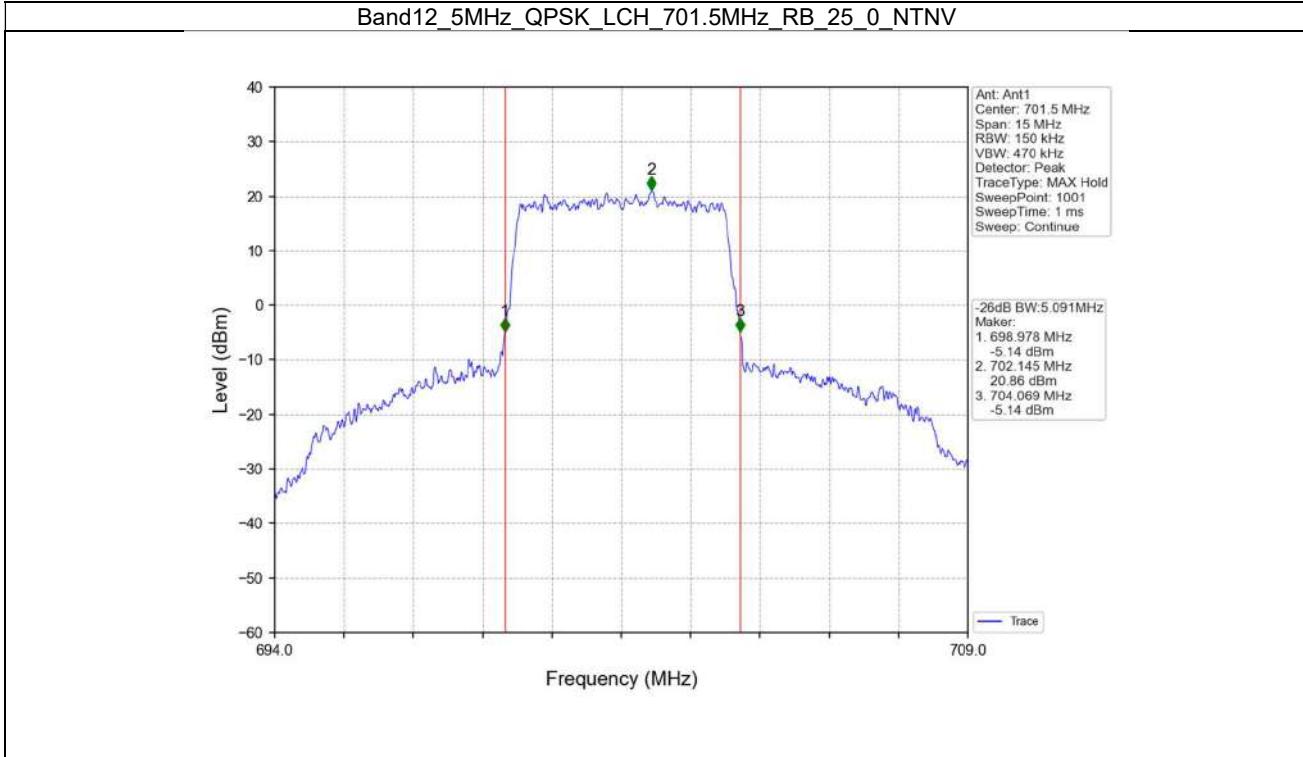
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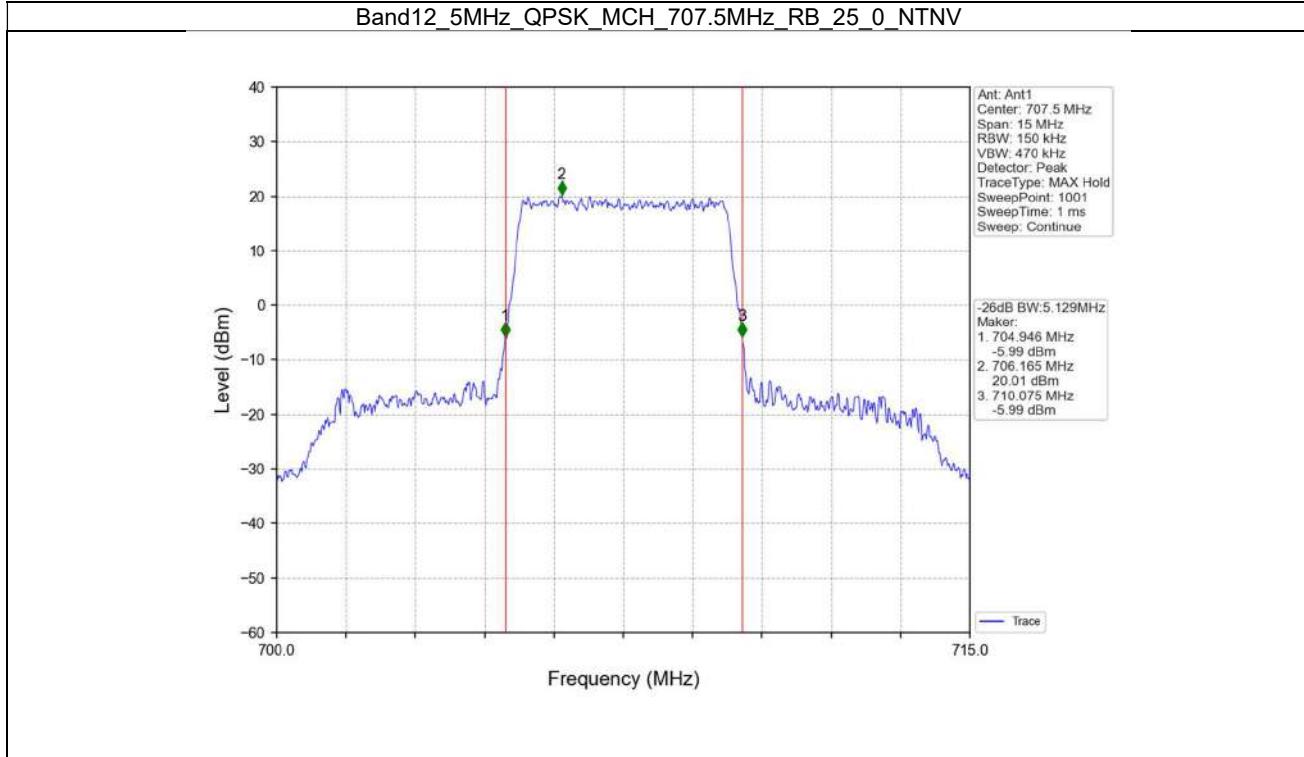
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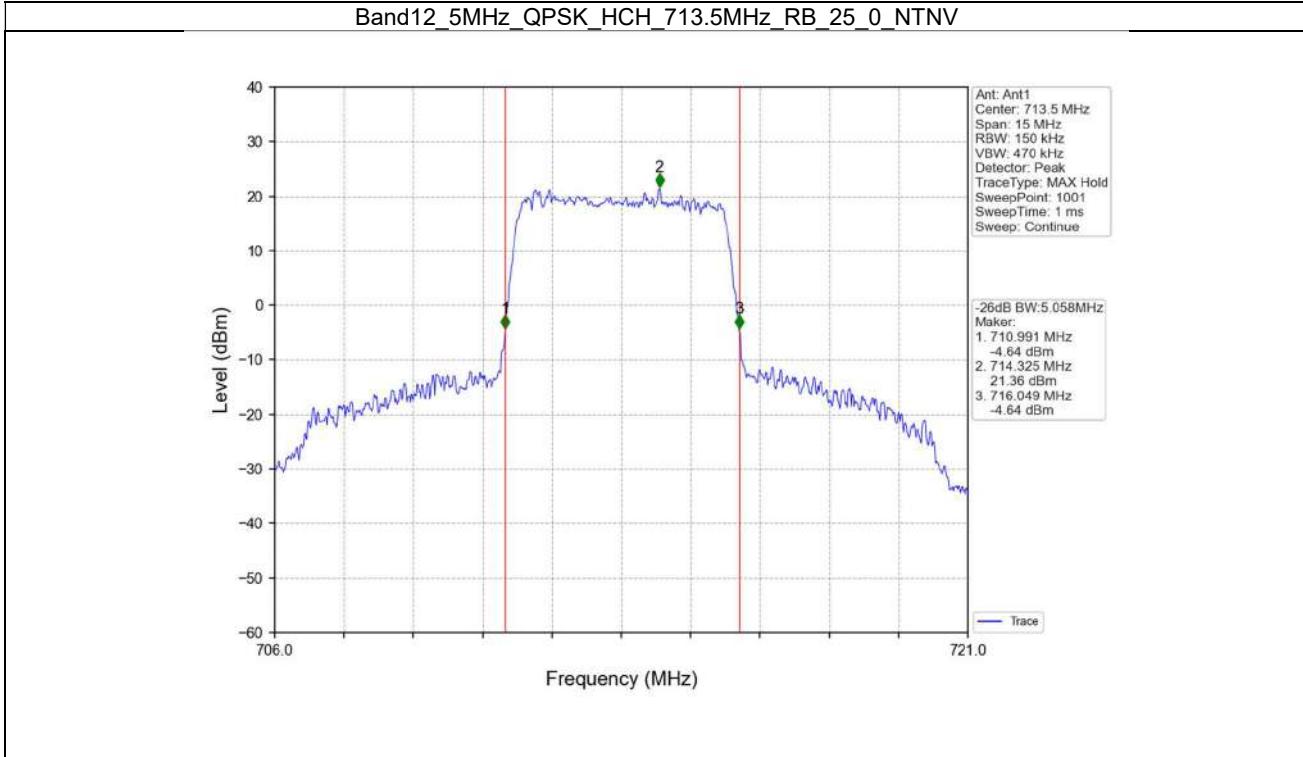
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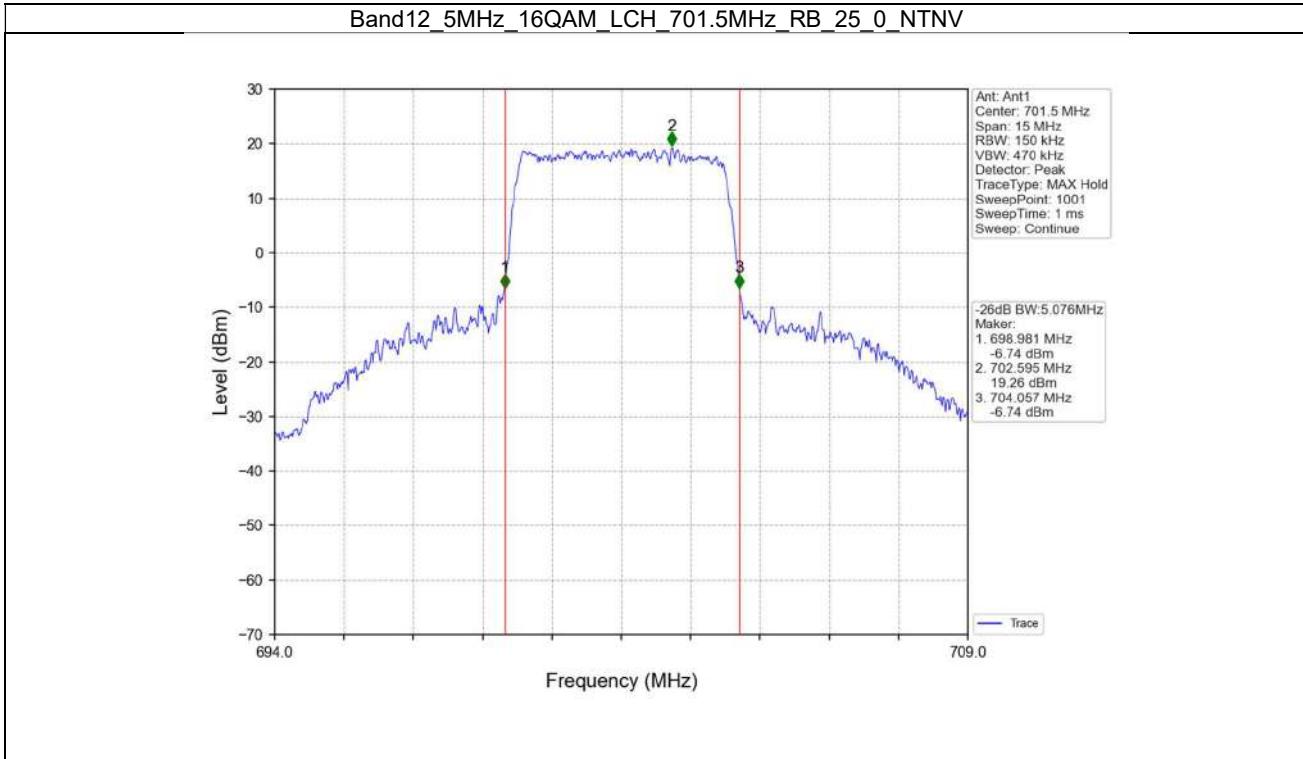
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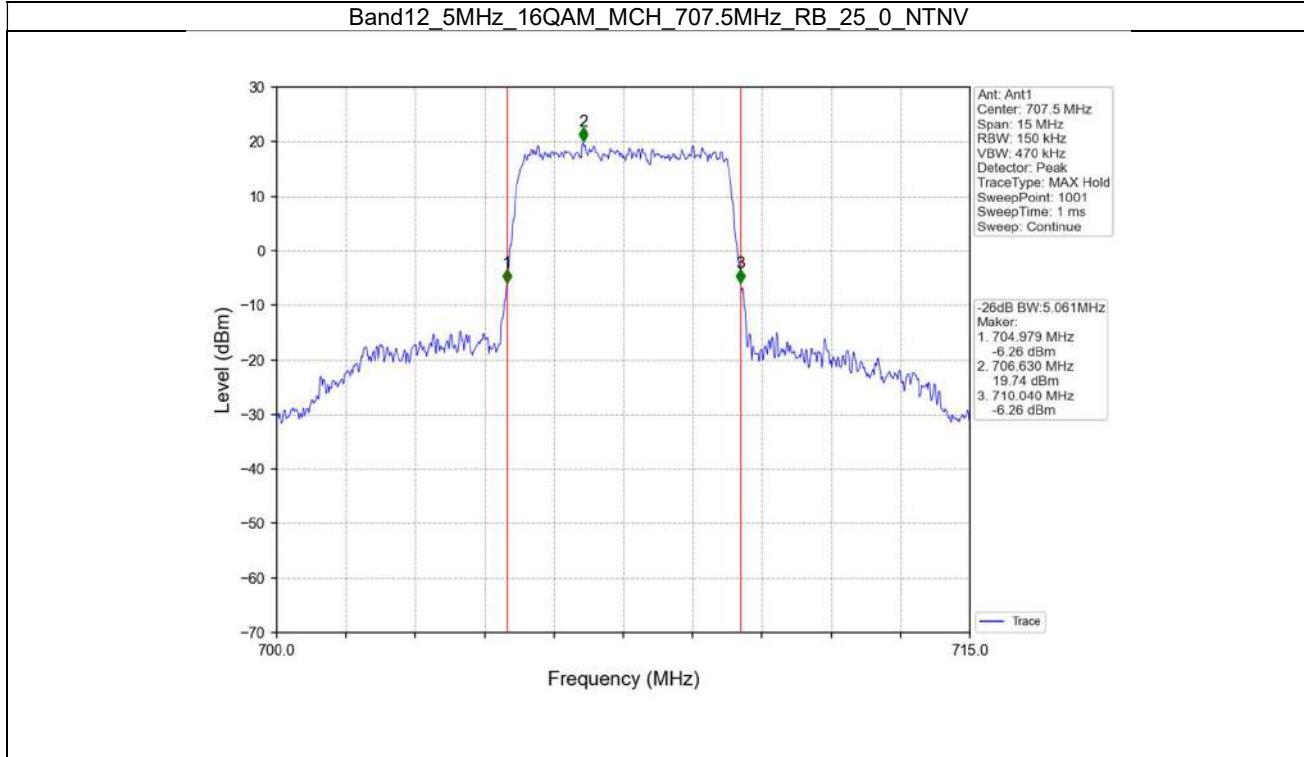


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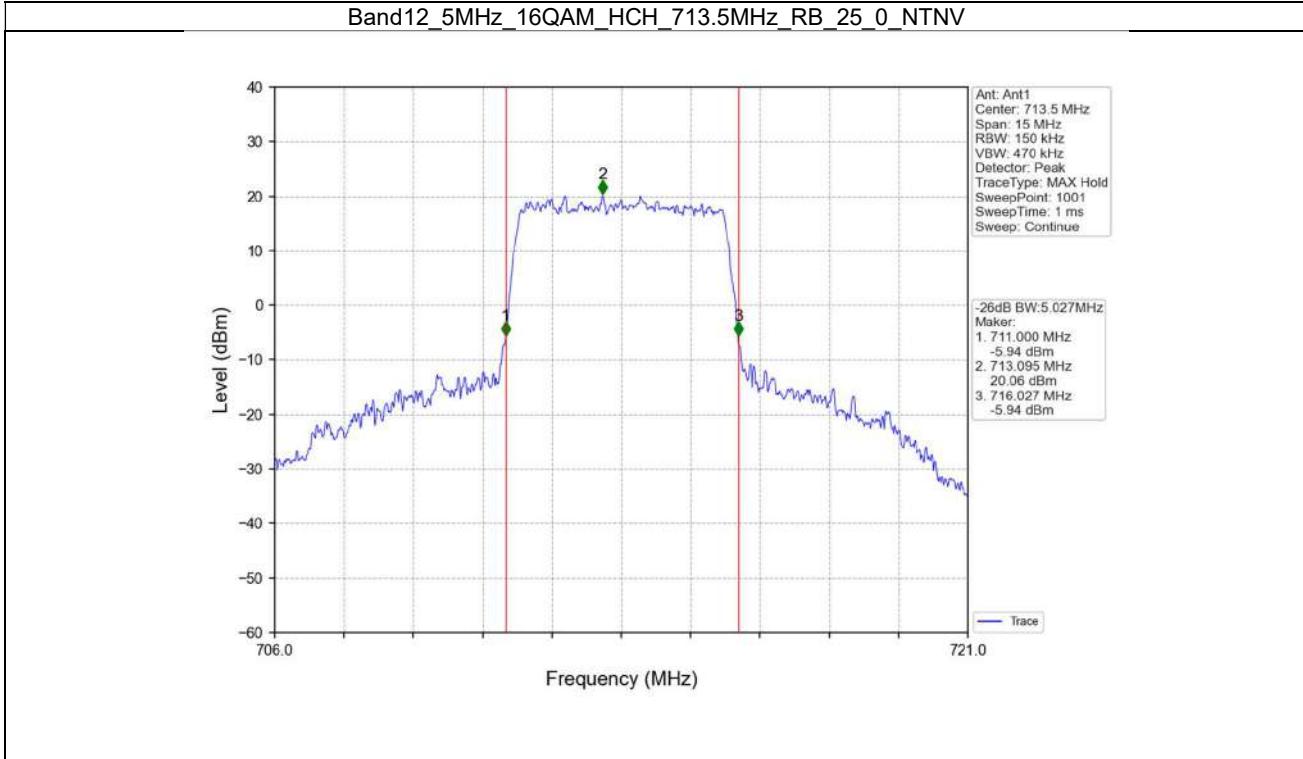
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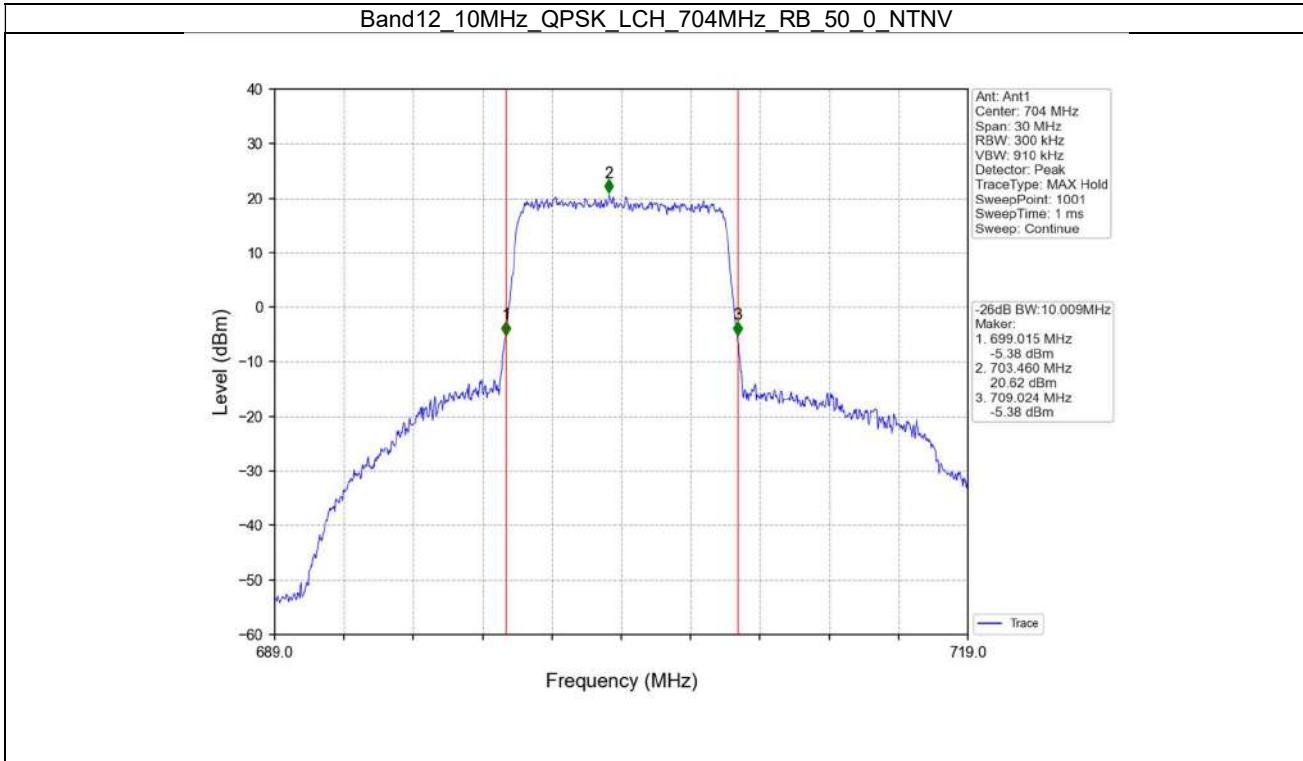
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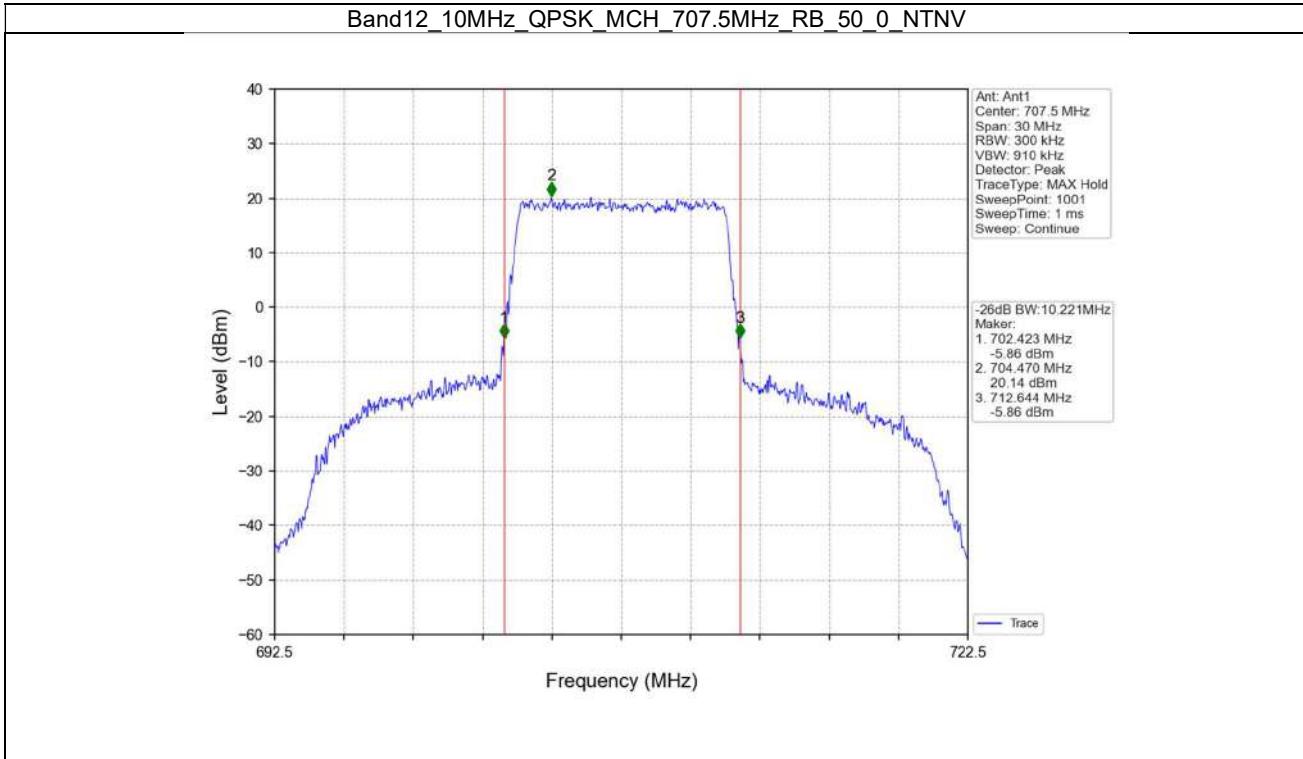
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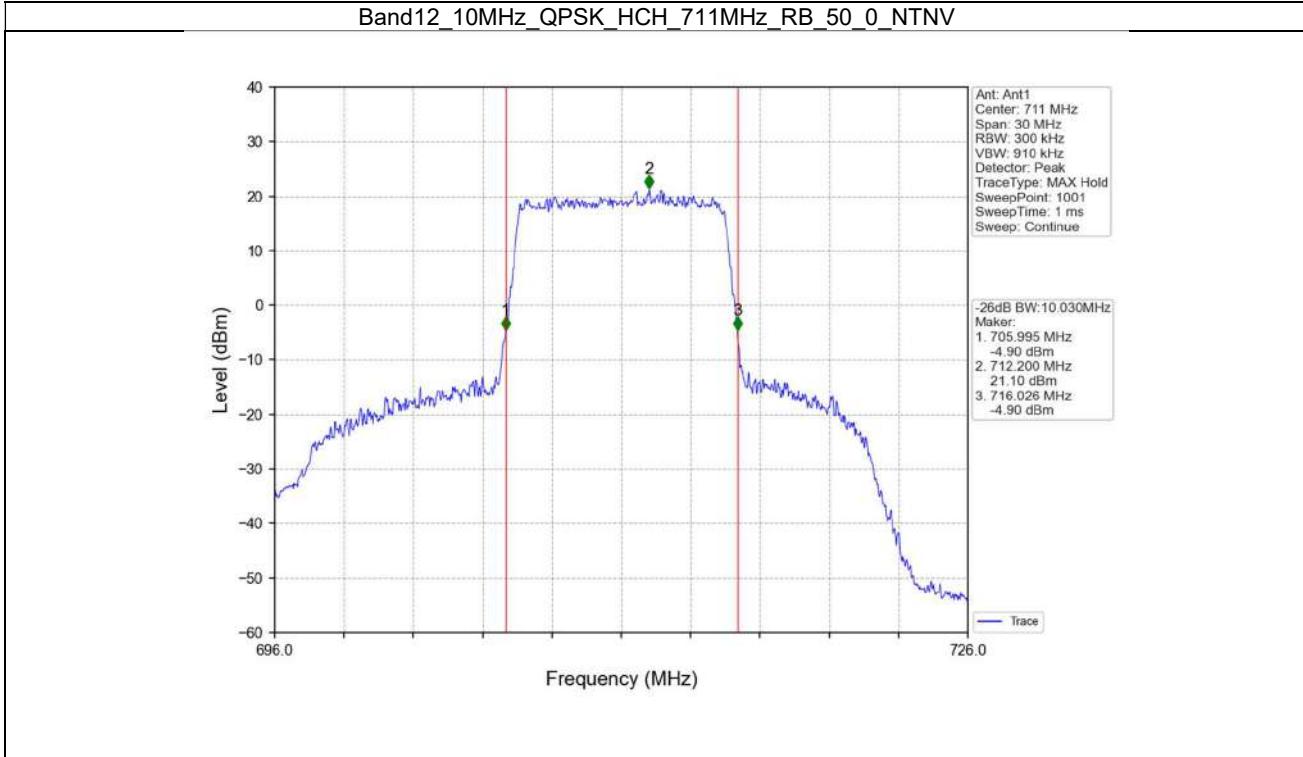
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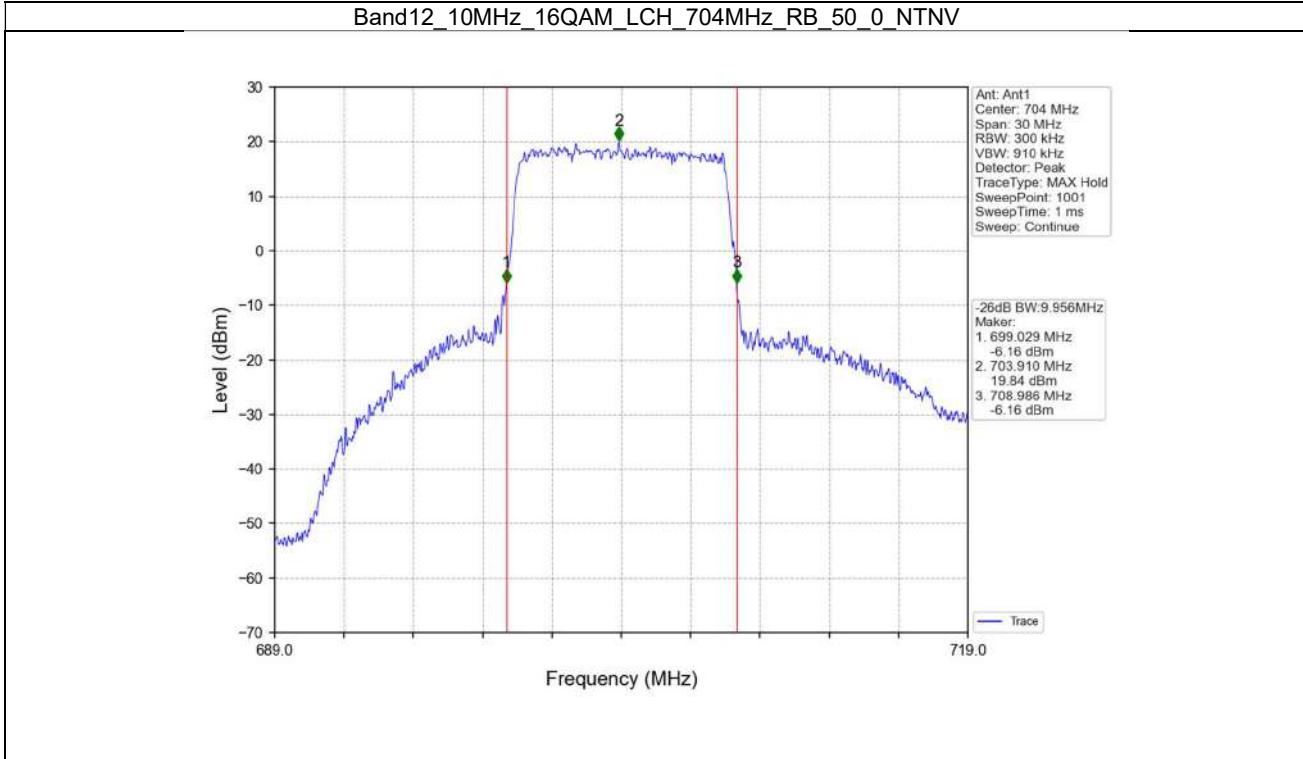
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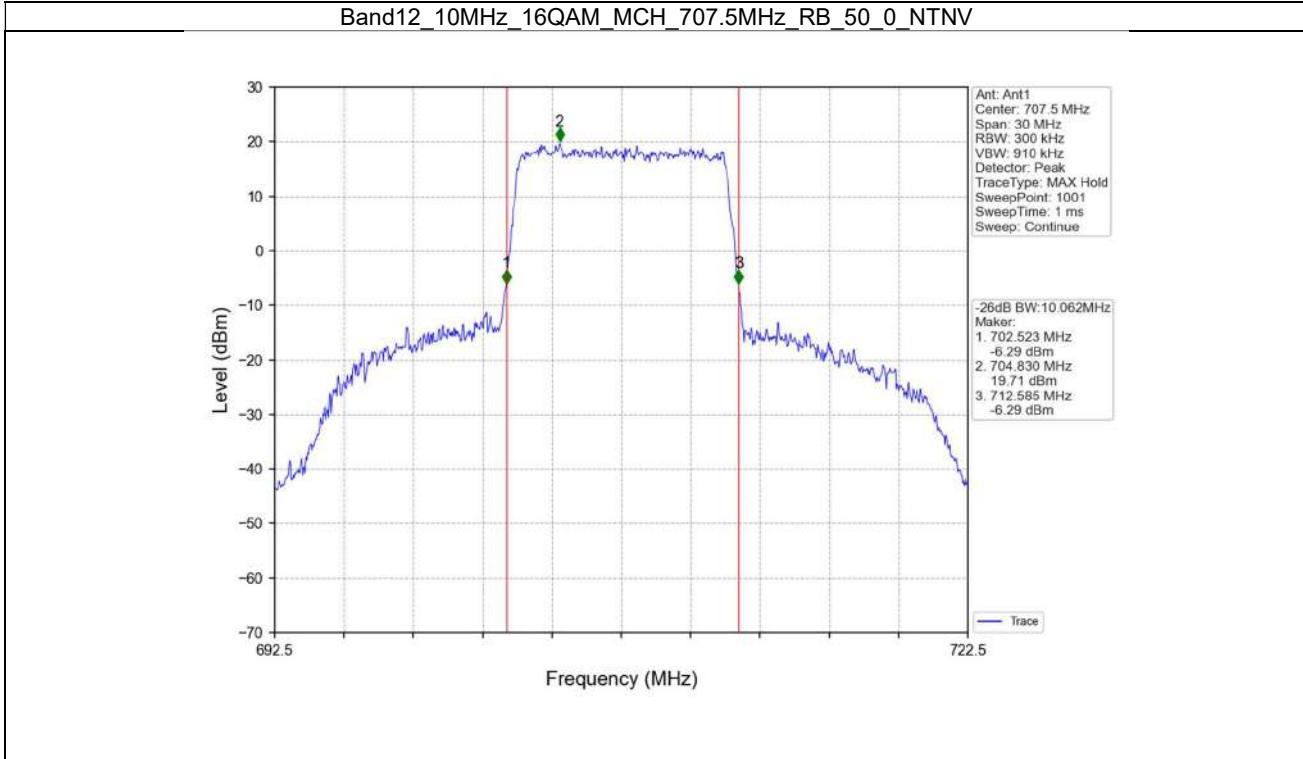
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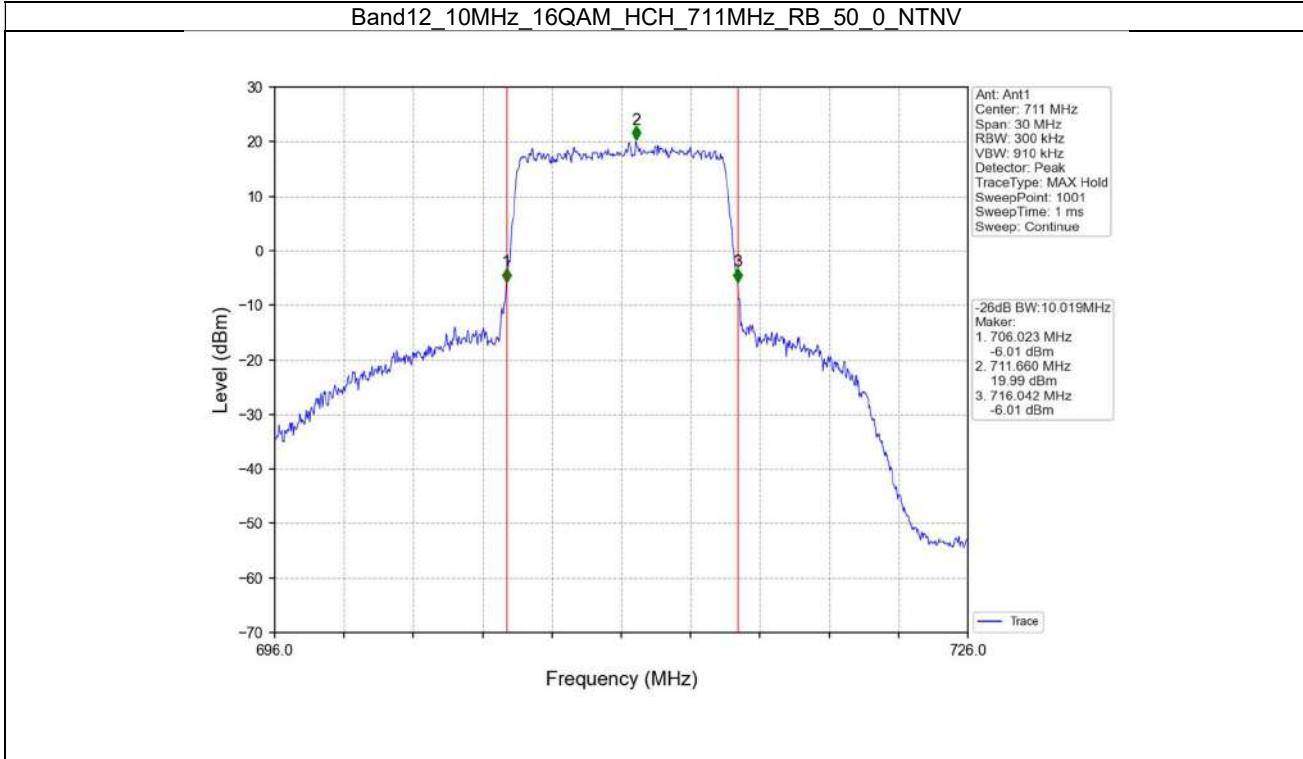
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5. Peak-Average Ratio

5.1 B12_1.4MHz

5.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.26	<=13	Pass
	707.5	6	0	4.93	<=13	Pass
	715.3	6	0	4.17	<=13	Pass
16QAM	699.7	6	0	5.30	<=13	Pass
	707.5	6	0	5.81	<=13	Pass
	715.3	6	0	5.07	<=13	Pass



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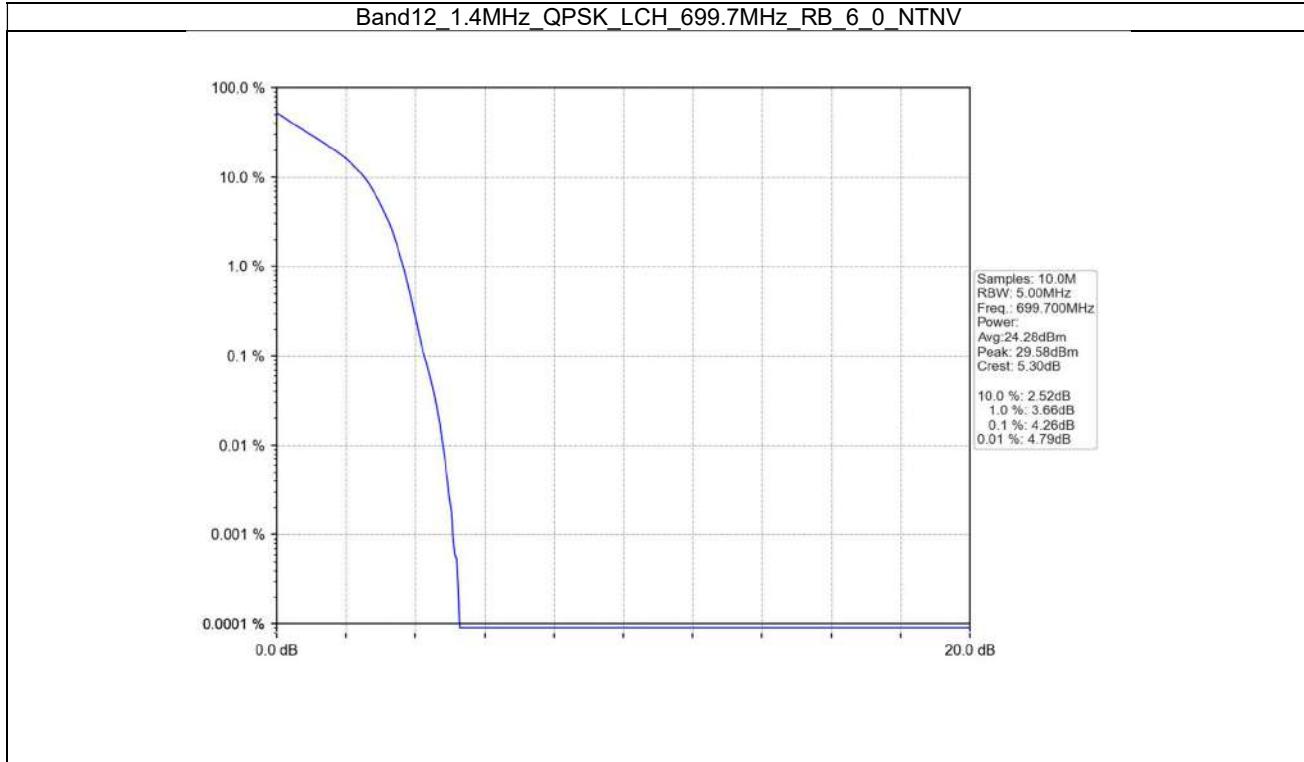
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5.1.2 Test Graph



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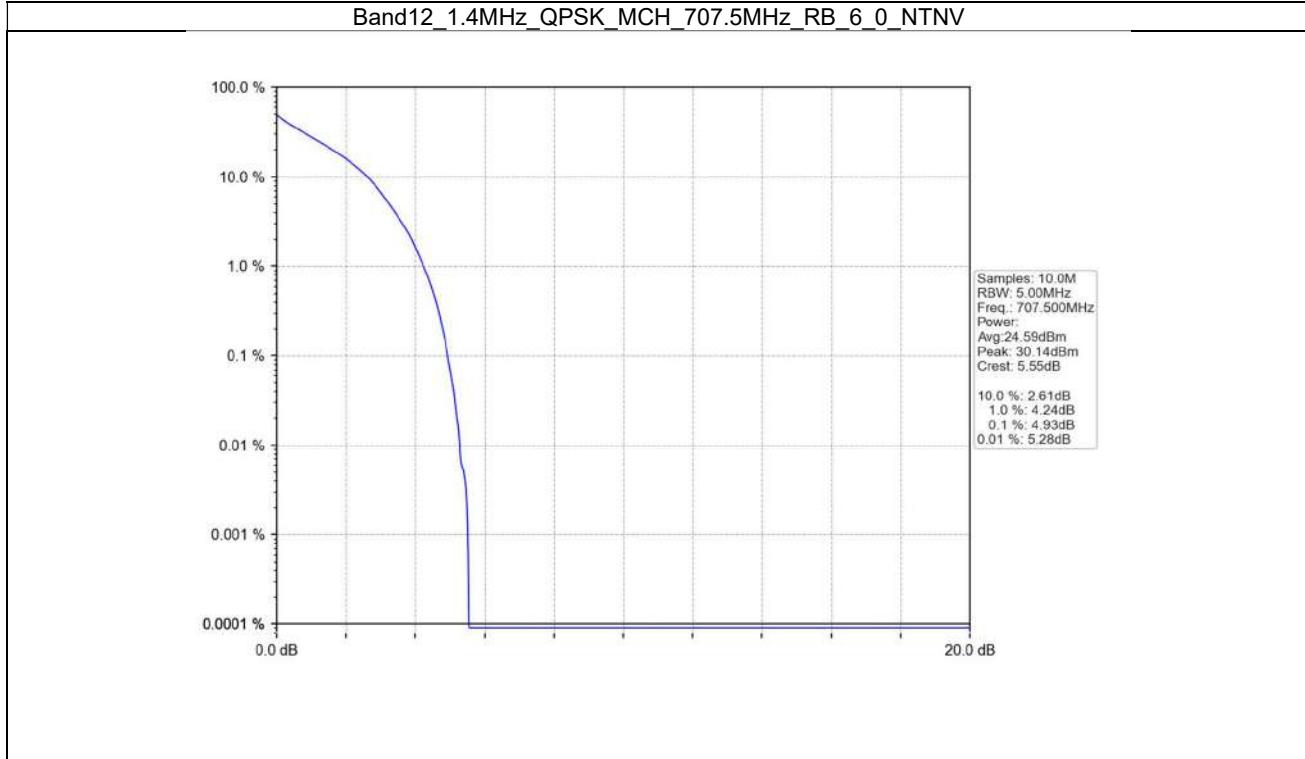
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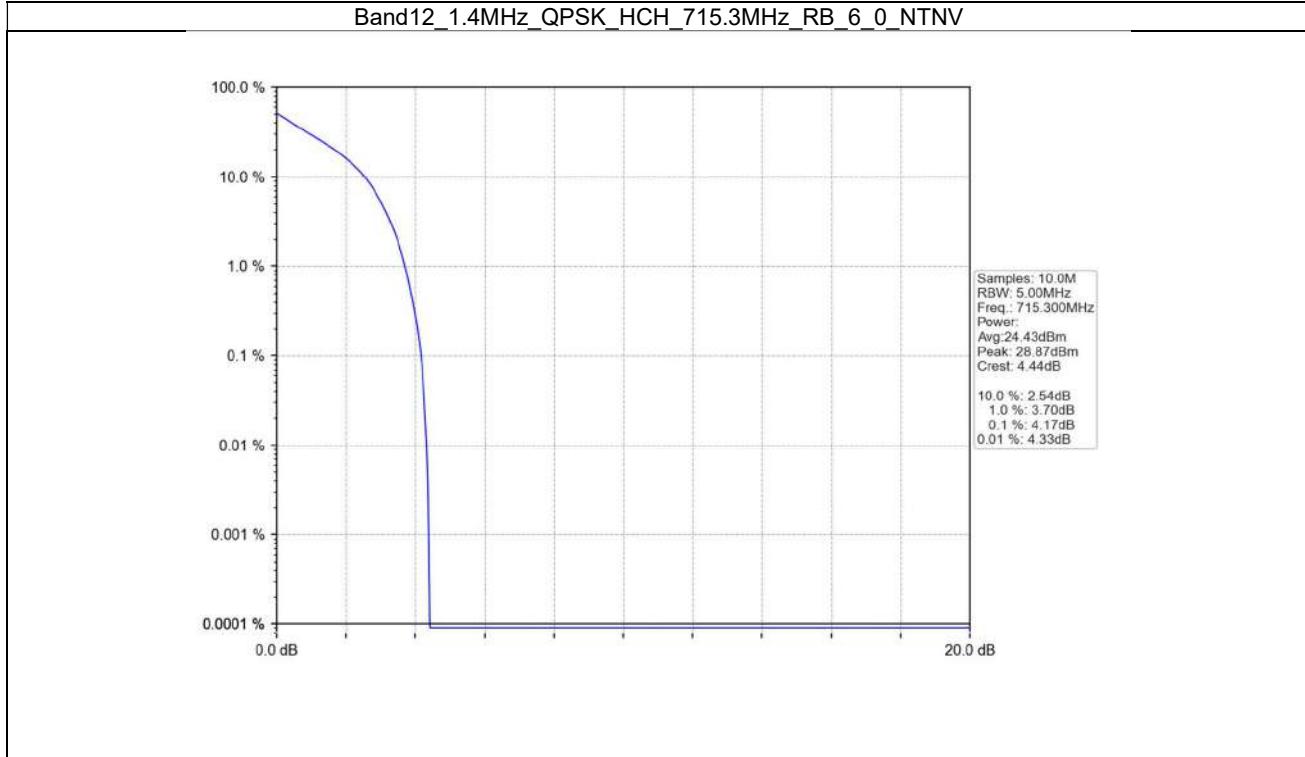
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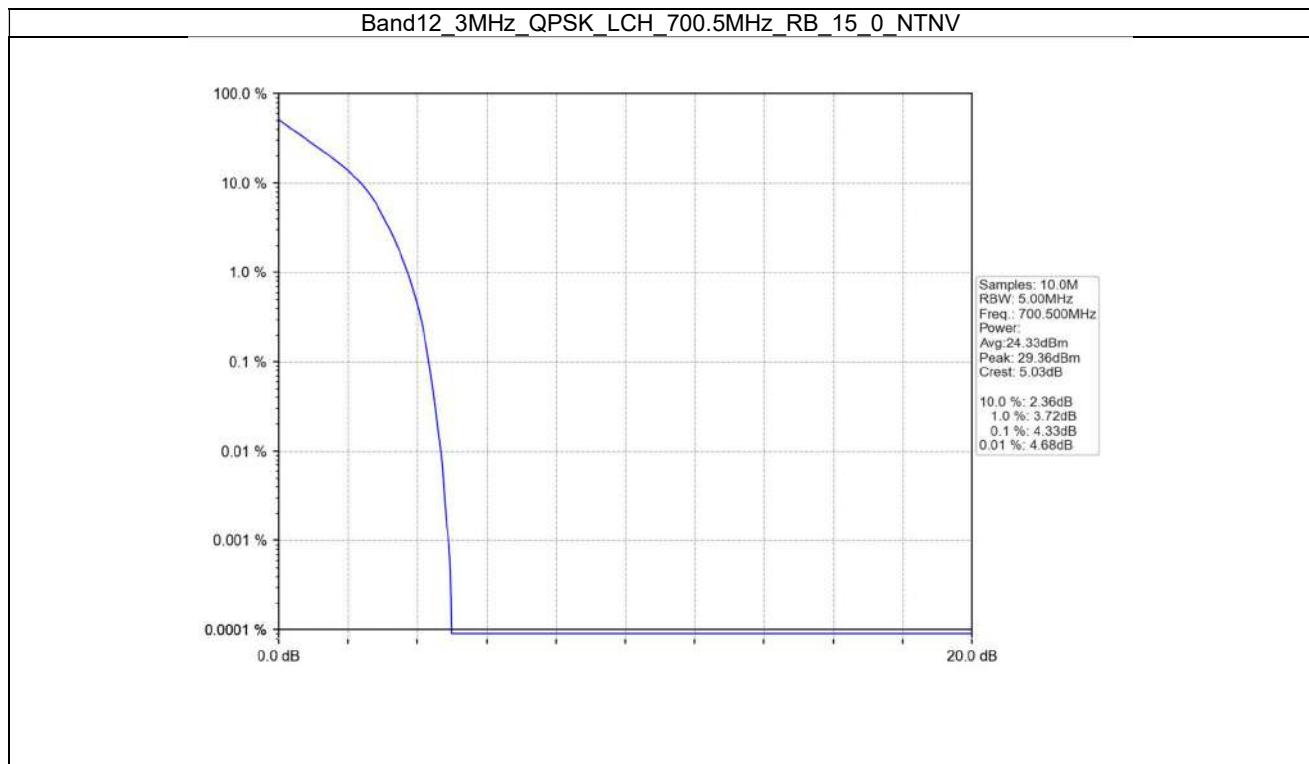
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5.2 B12_3MHz

5.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.33	<=13	Pass
	707.5	15	0	5.21	<=13	Pass
	714.5	15	0	4.53	<=13	Pass
16QAM	700.5	15	0	5.24	<=13	Pass
	707.5	15	0	6.06	<=13	Pass
	714.5	15	0	5.31	<=13	Pass

5.2.2 Test Graph



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5.3 B12_5MHz

5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						Verdict	
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)			
		Size	Offset	Result	Limit		
QPSK	701.5	25	0	4.88	<=13	Pass	
	707.5	25	0	5.43	<=13	Pass	
	713.5	25	0	4.99	<=13	Pass	
16QAM	701.5	25	0	5.75	<=13	Pass	
	707.5	25	0	6.14	<=13	Pass	
	713.5	25	0	5.64	<=13	Pass	



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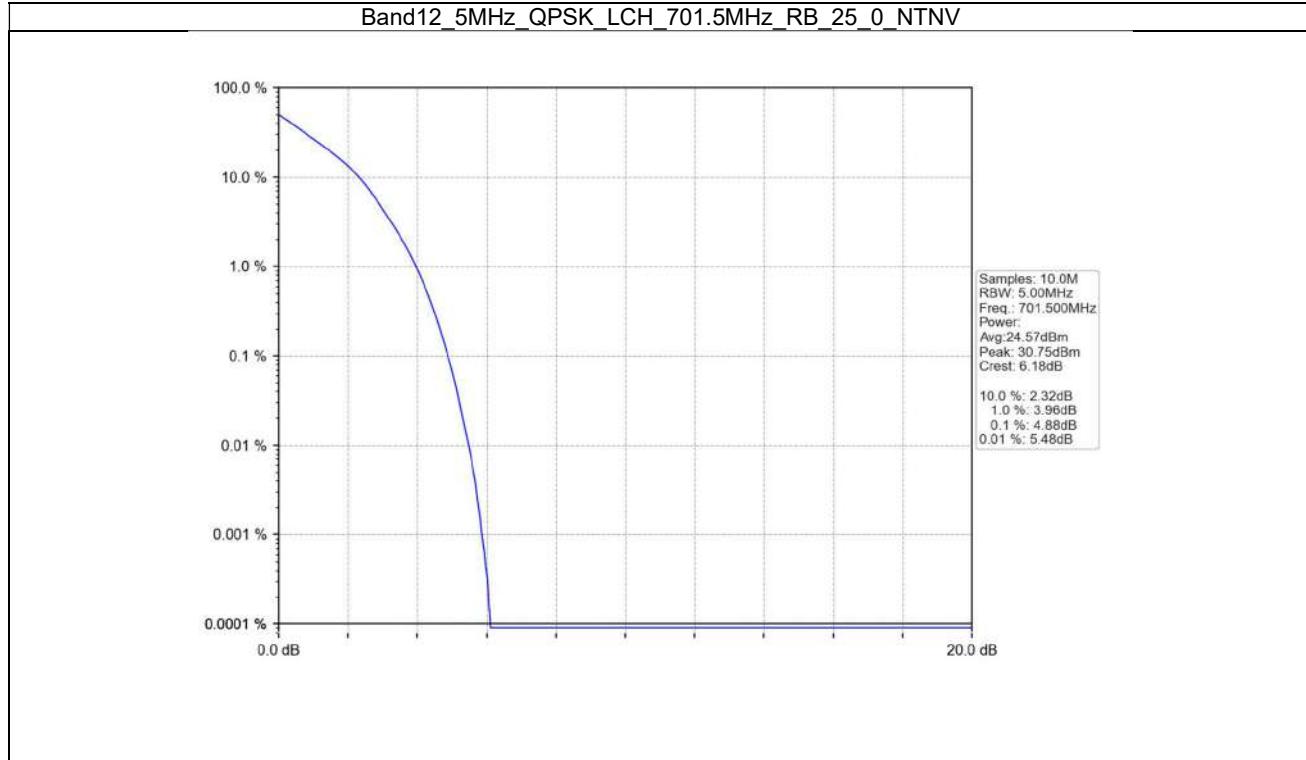
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5.3.2 Test Graph



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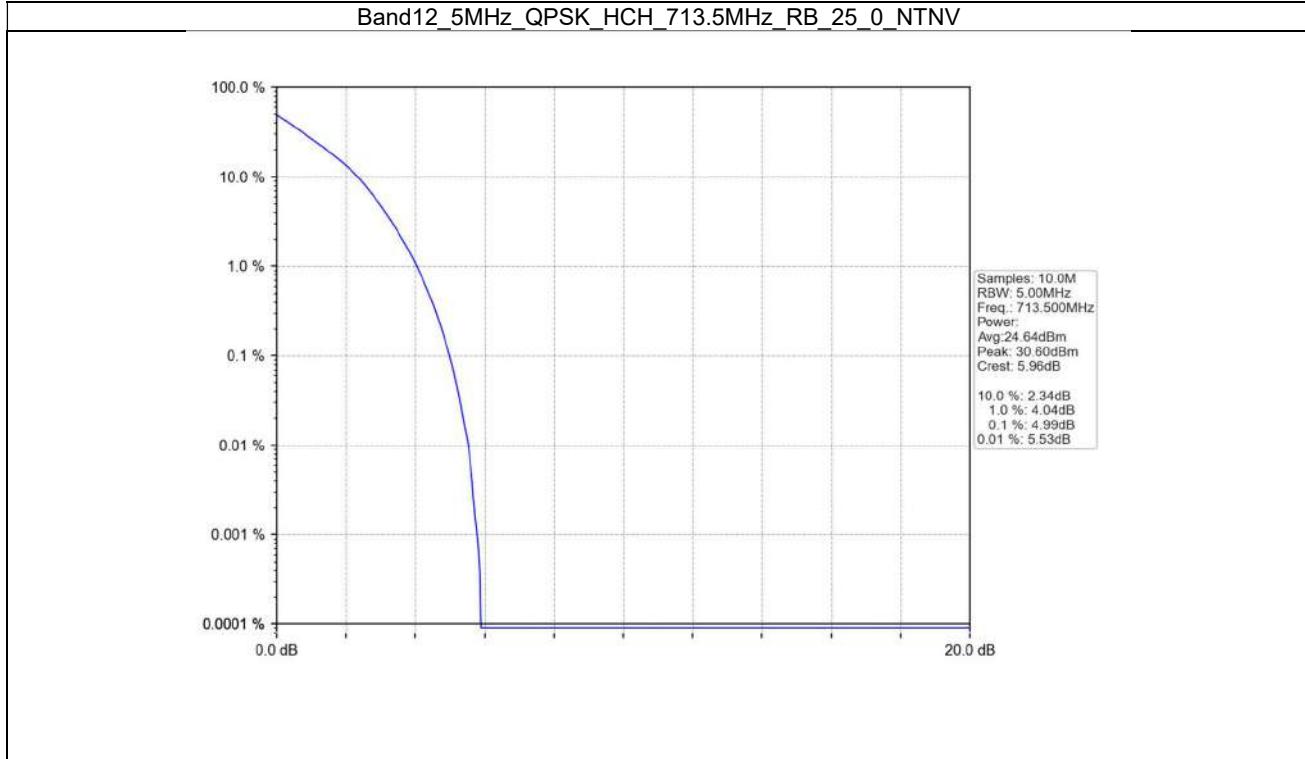
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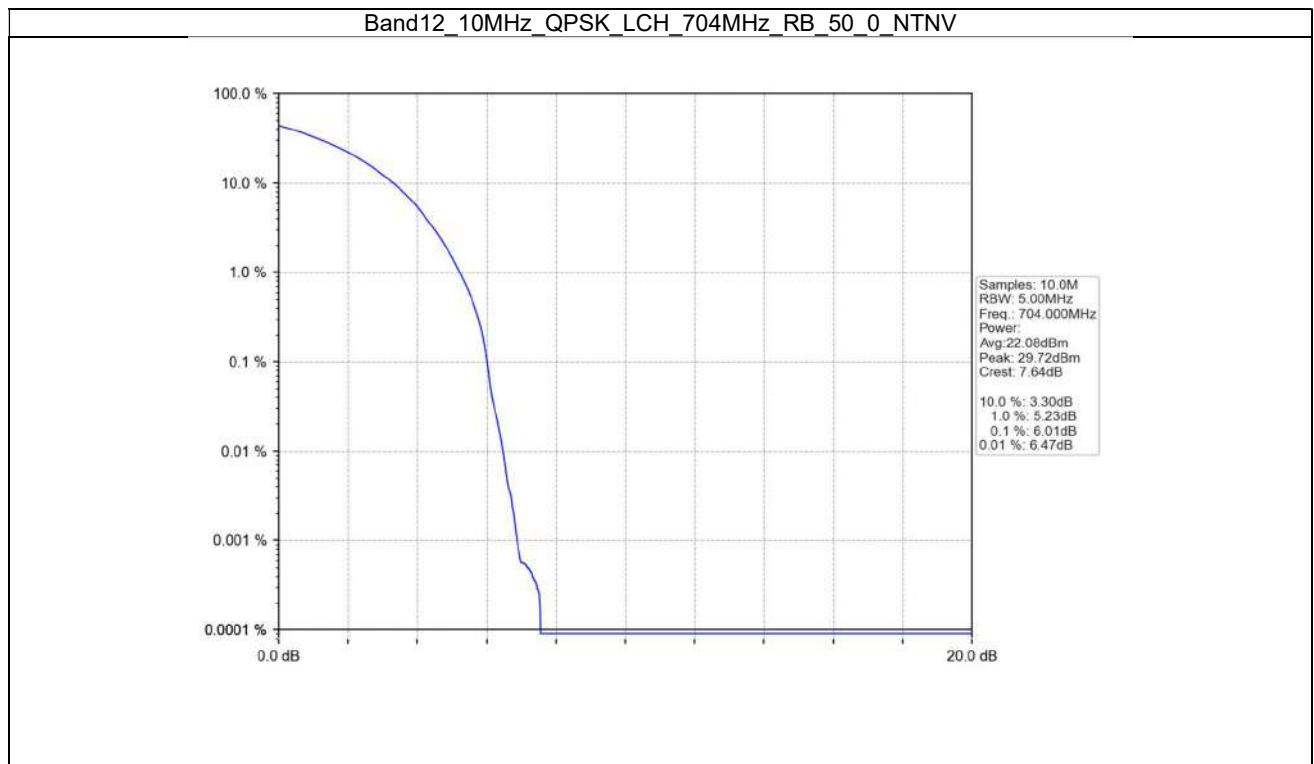
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5.4 B12_10MHz

5.4.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	6.01	<=13	Pass
	707.5	50	0	6.11	<=13	Pass
	711	50	0	6.23	<=13	Pass
16QAM	704	50	0	6.76	<=13	Pass
	707.5	50	0	6.87	<=13	Pass
	711	50	0	6.78	<=13	Pass

5.4.2 Test Graph



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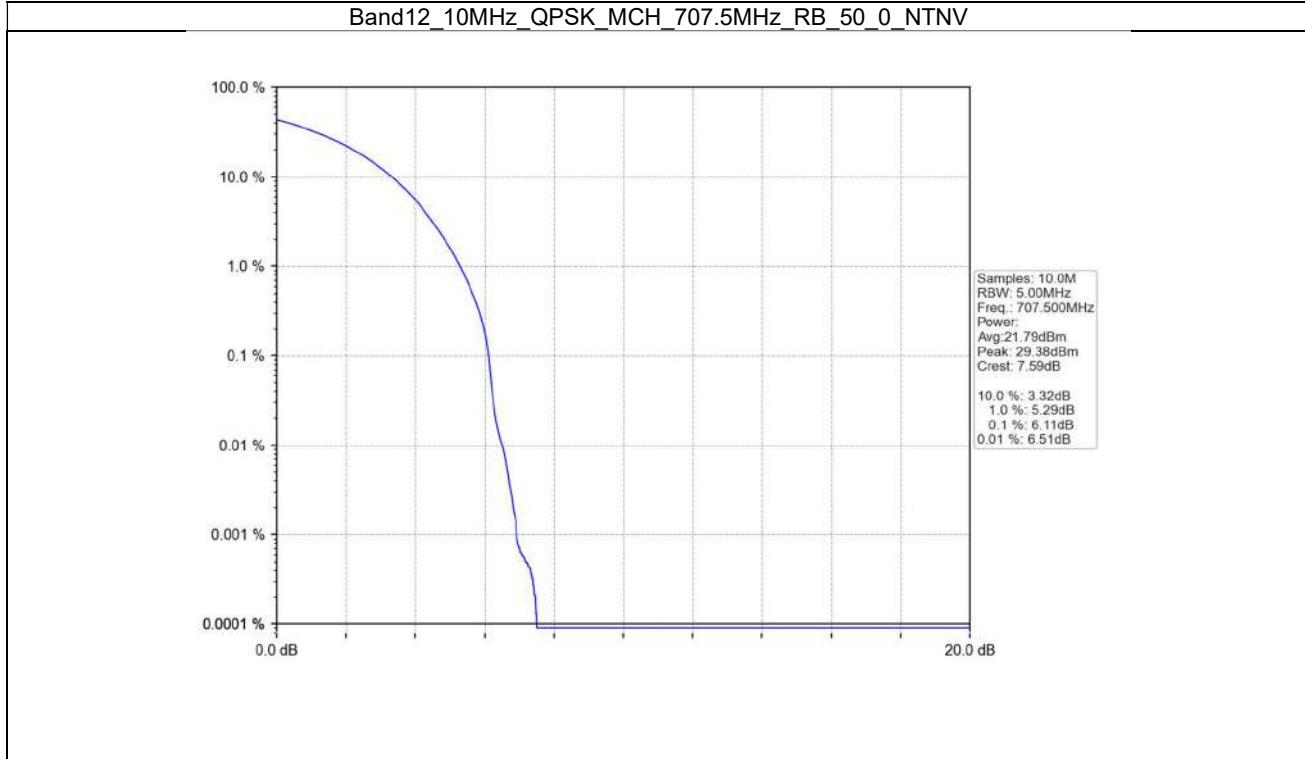
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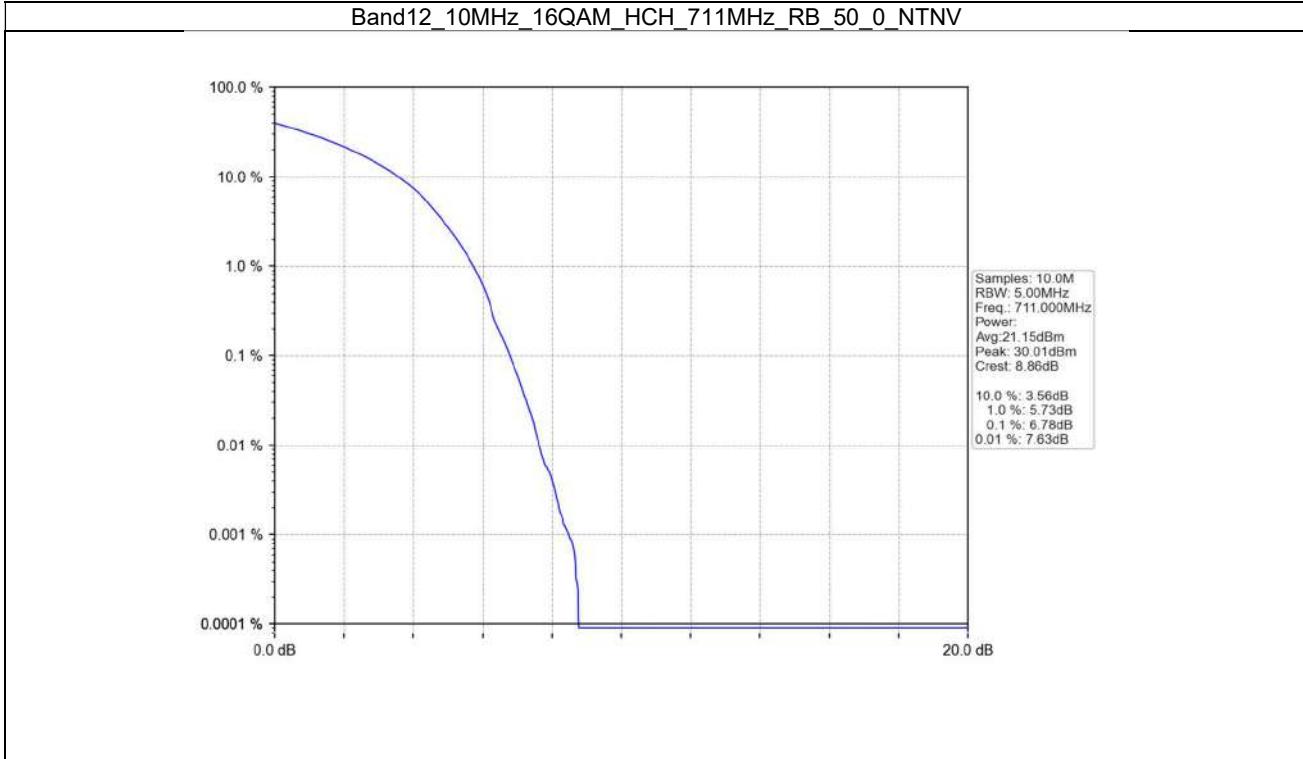
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6. Spurious Emission

6.1 B12_1.4MHz

6.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.



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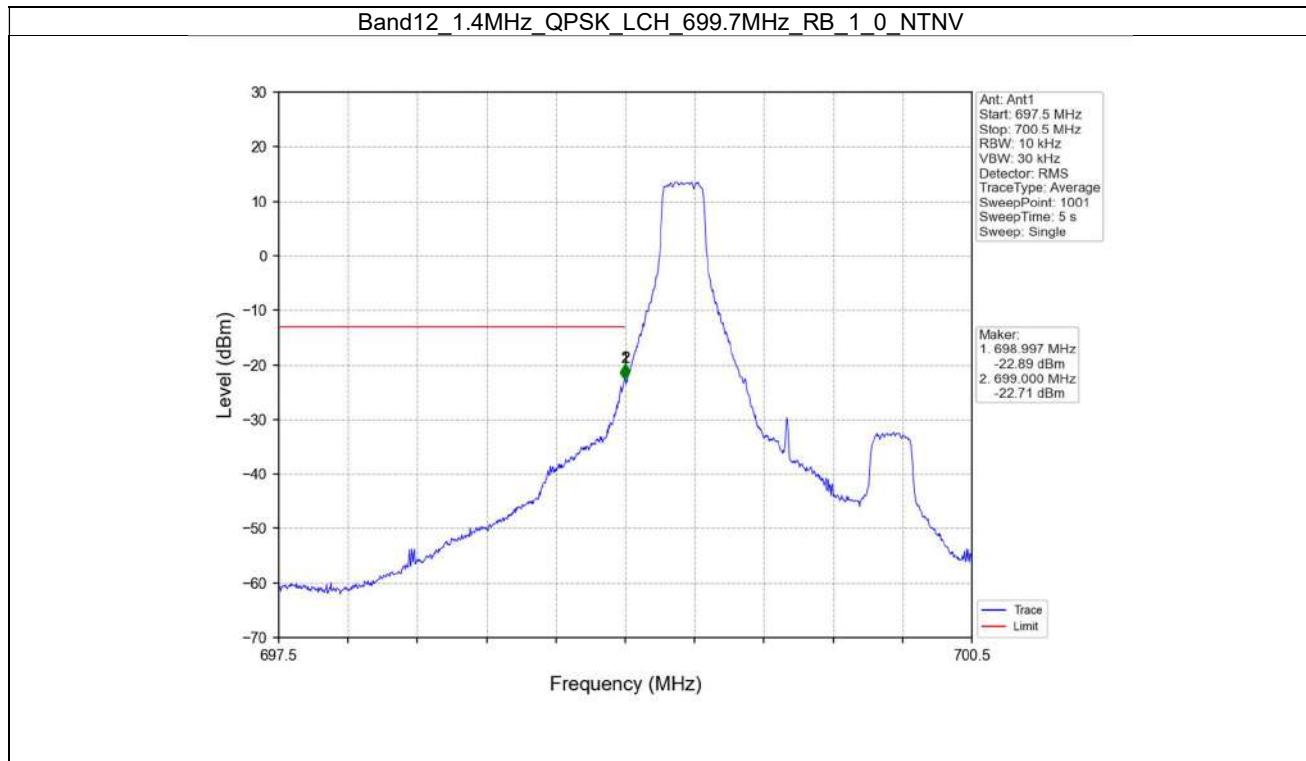
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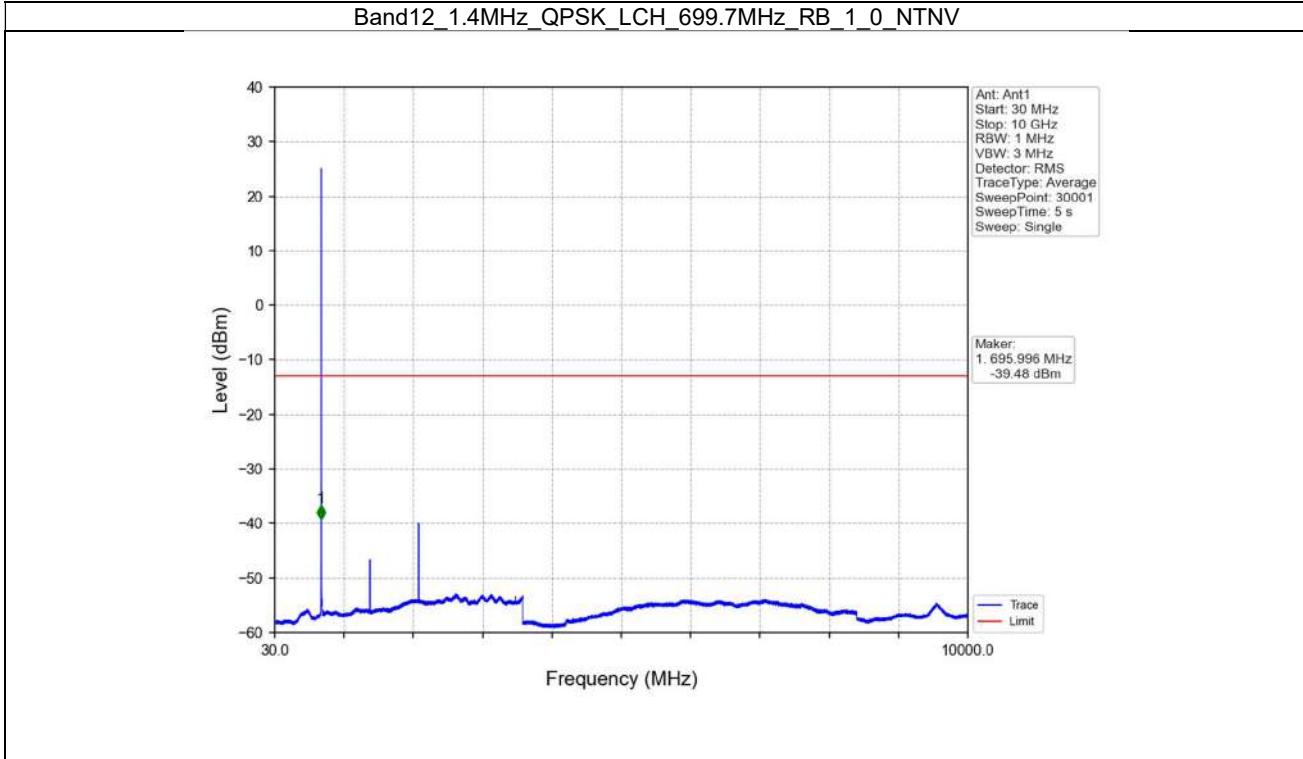
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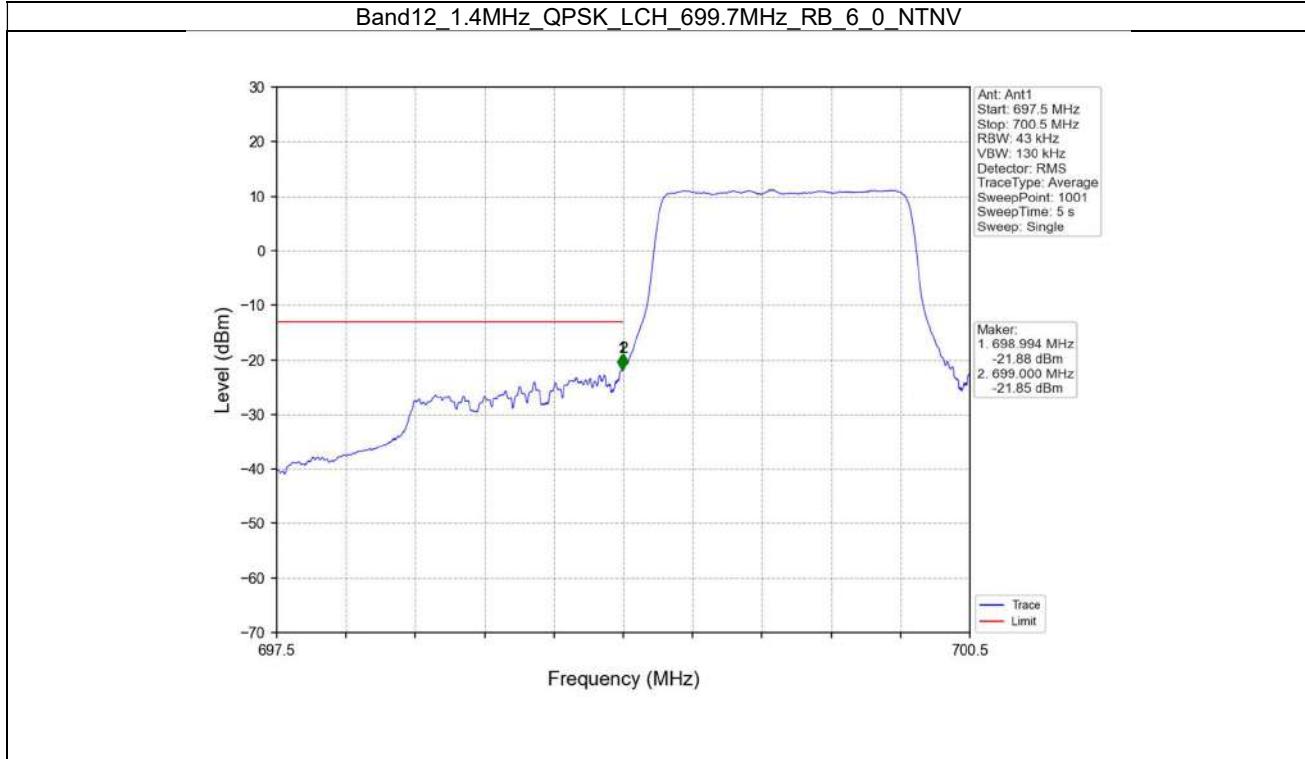
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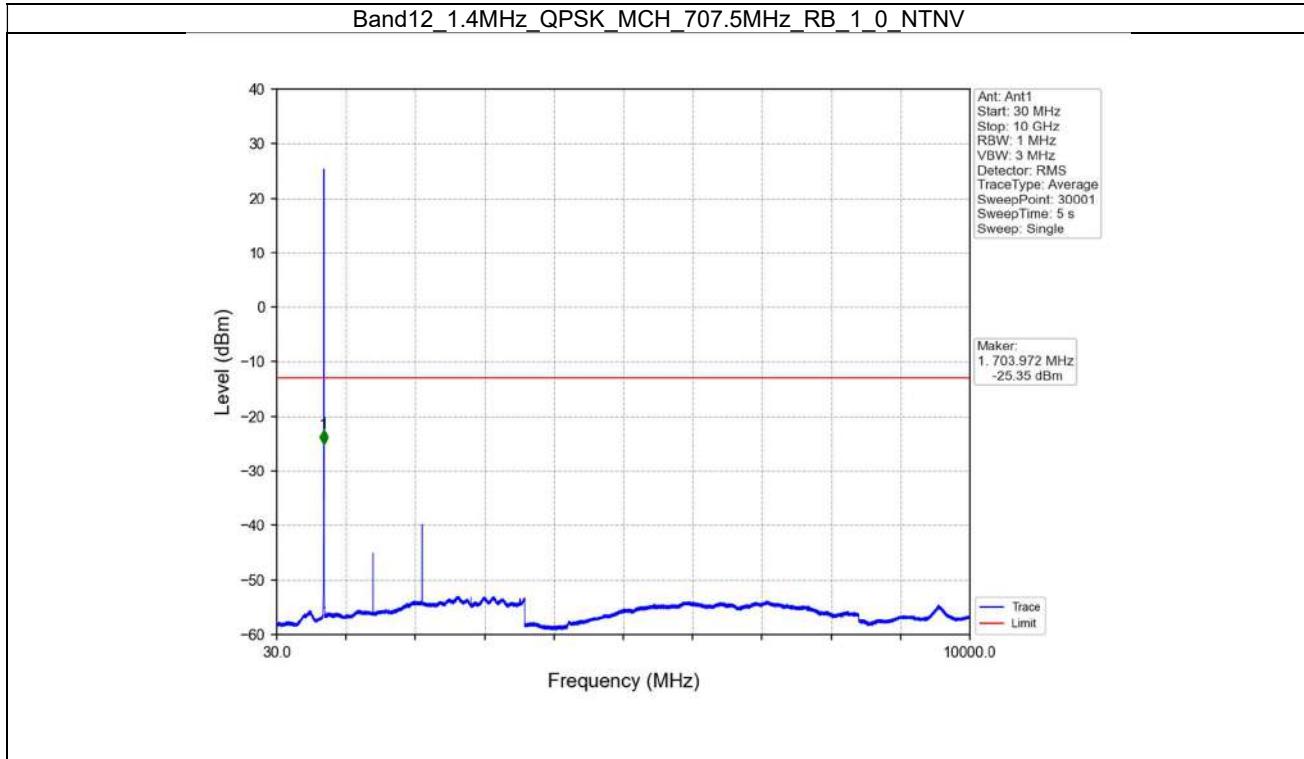
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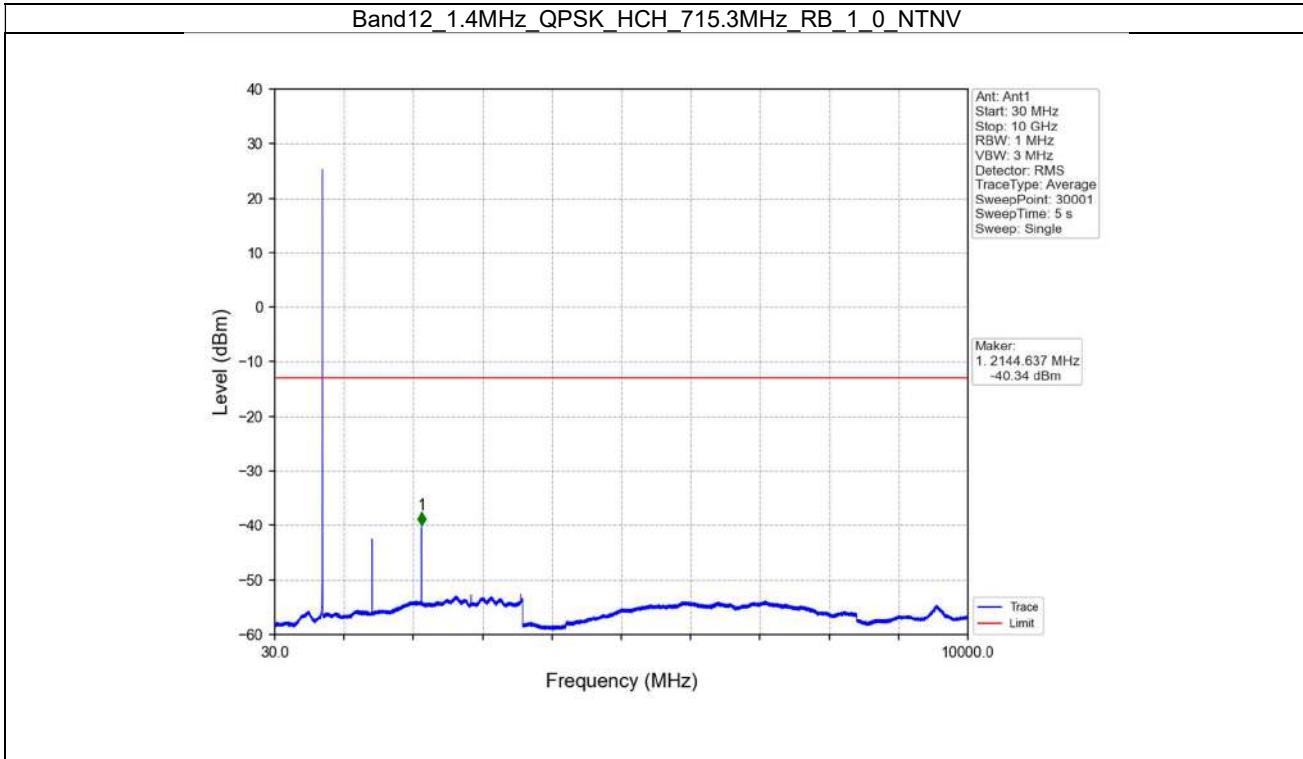
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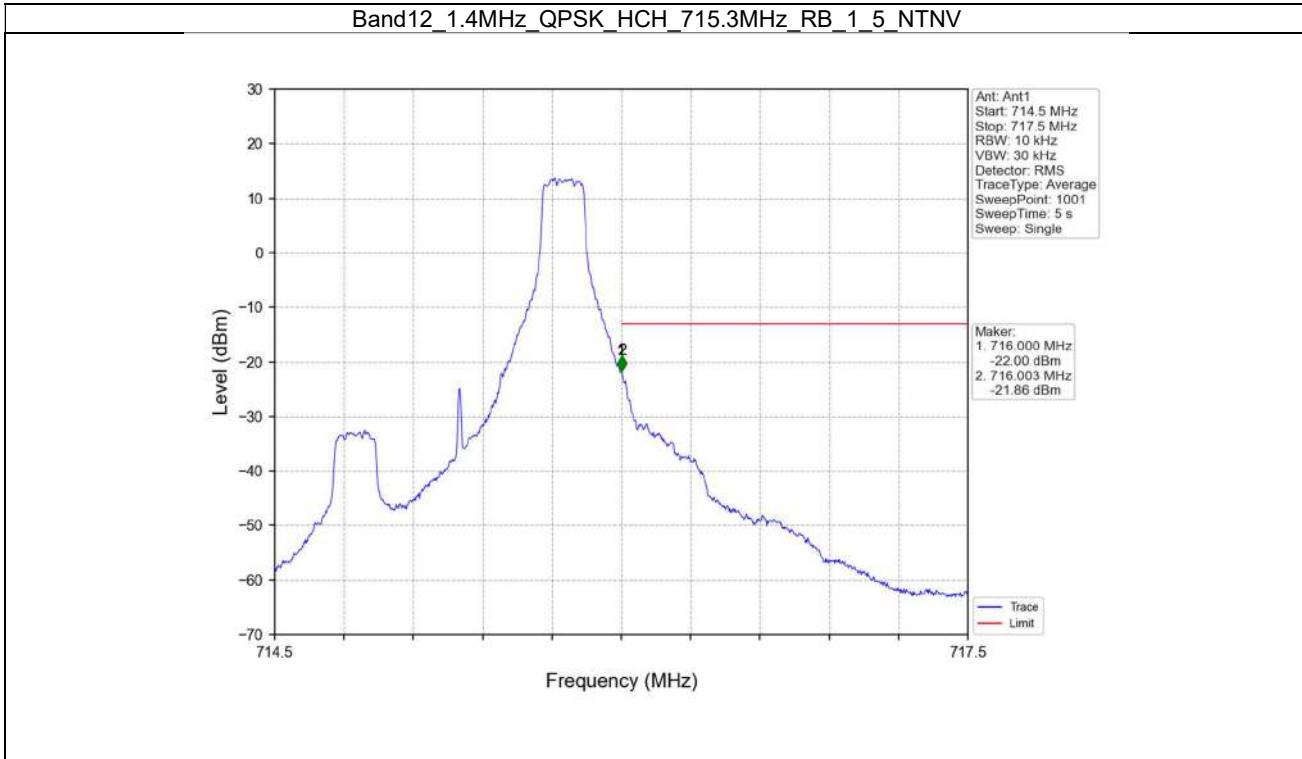


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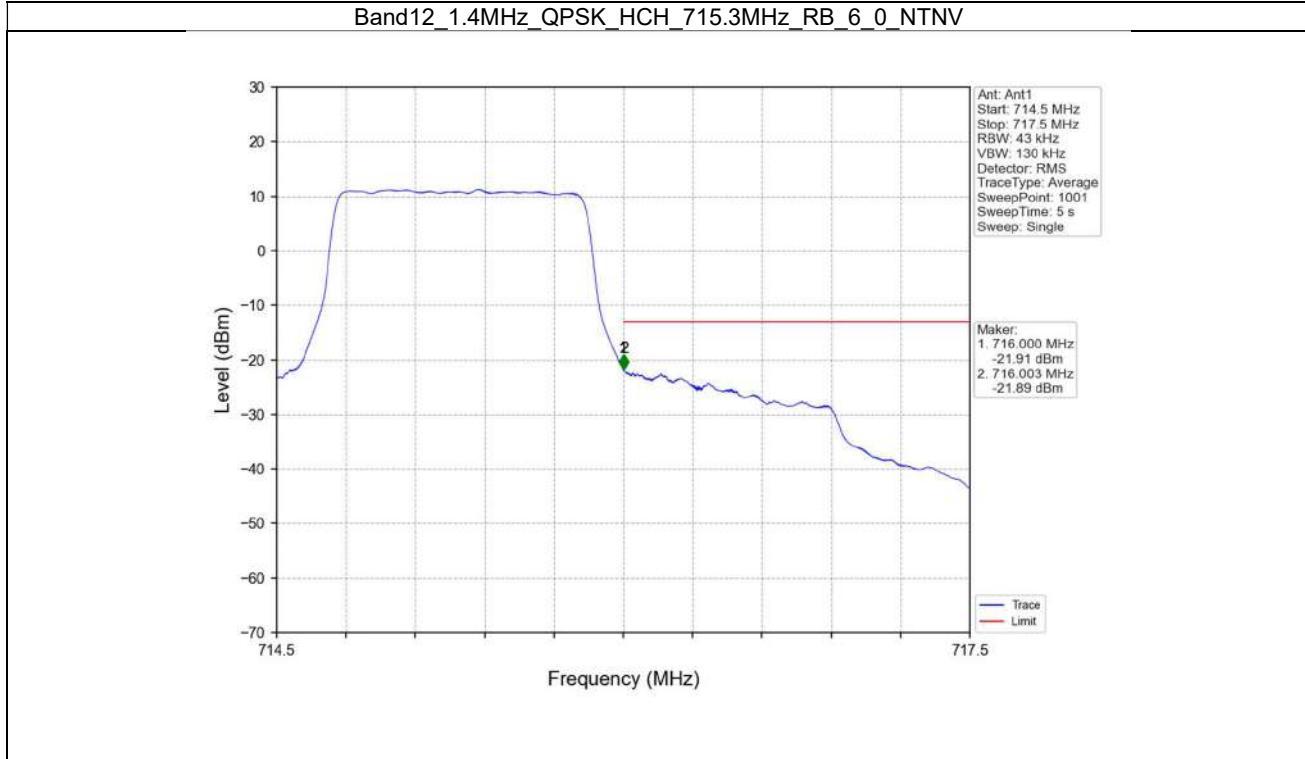
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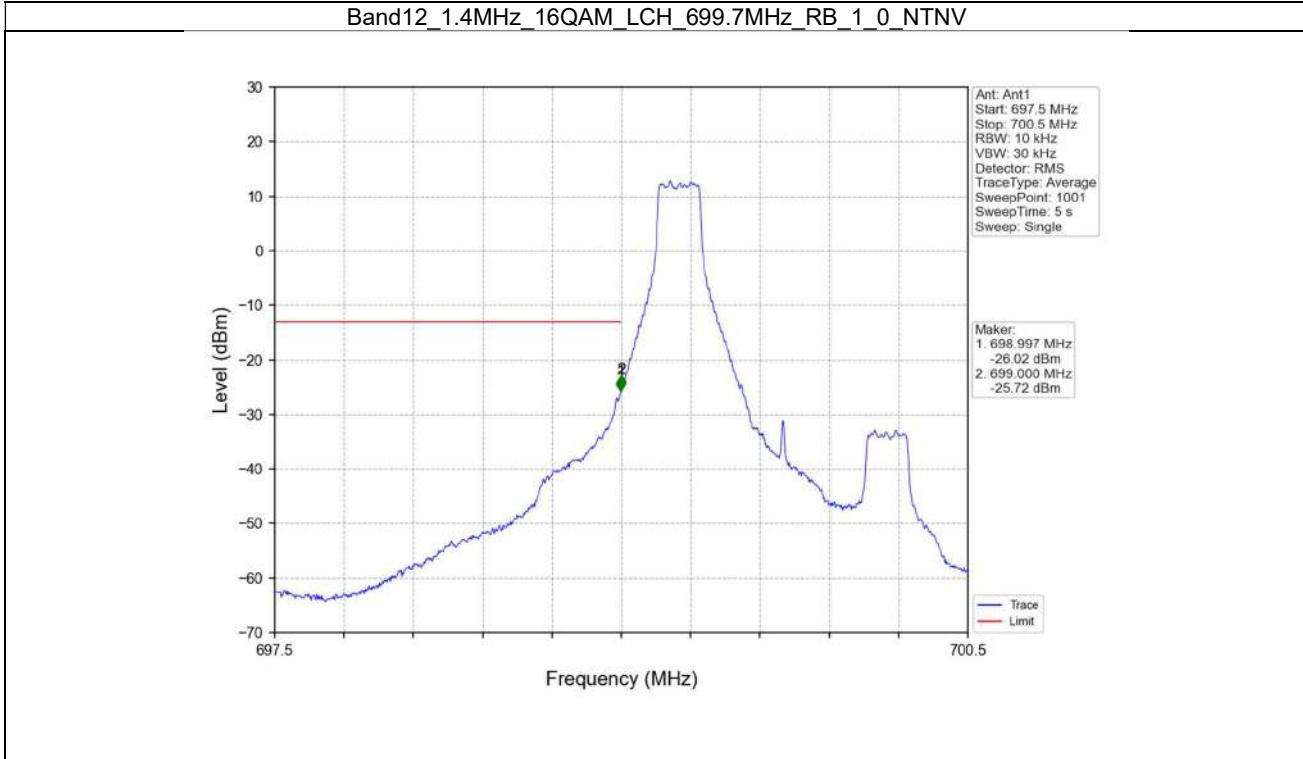
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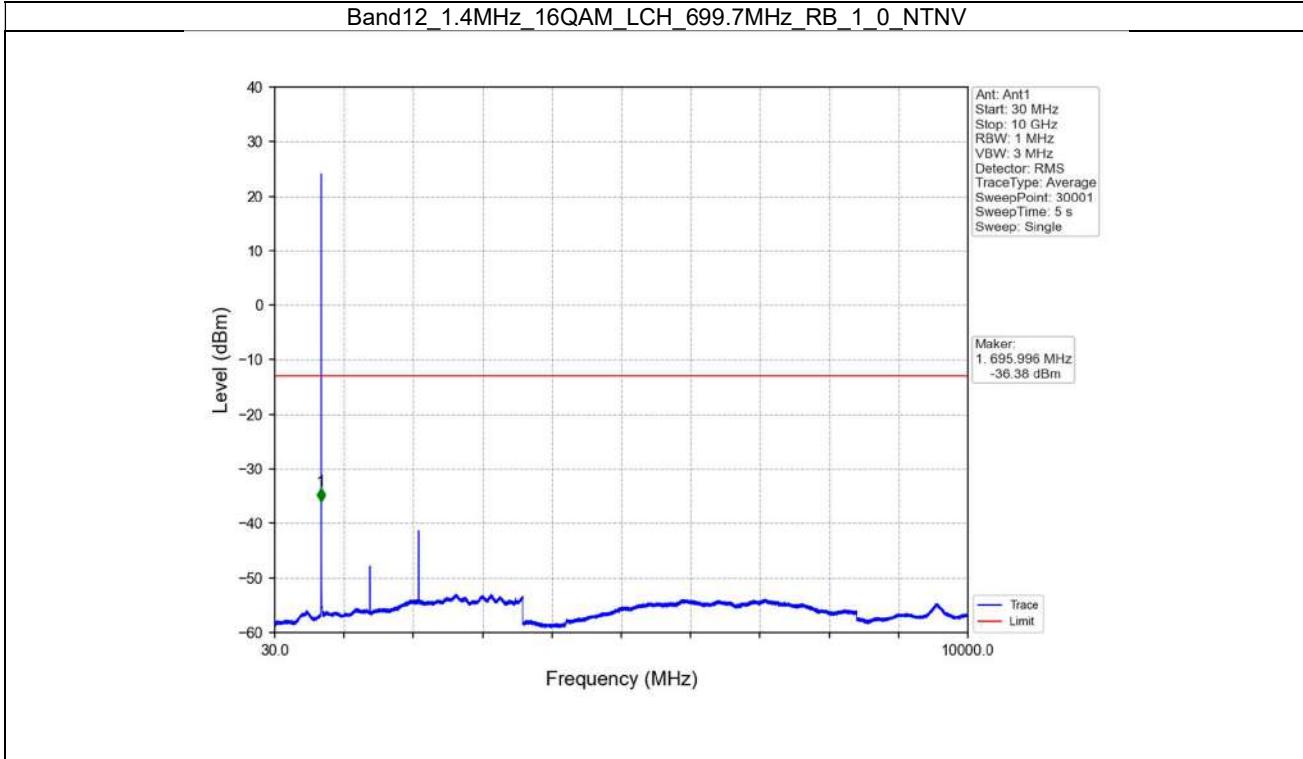
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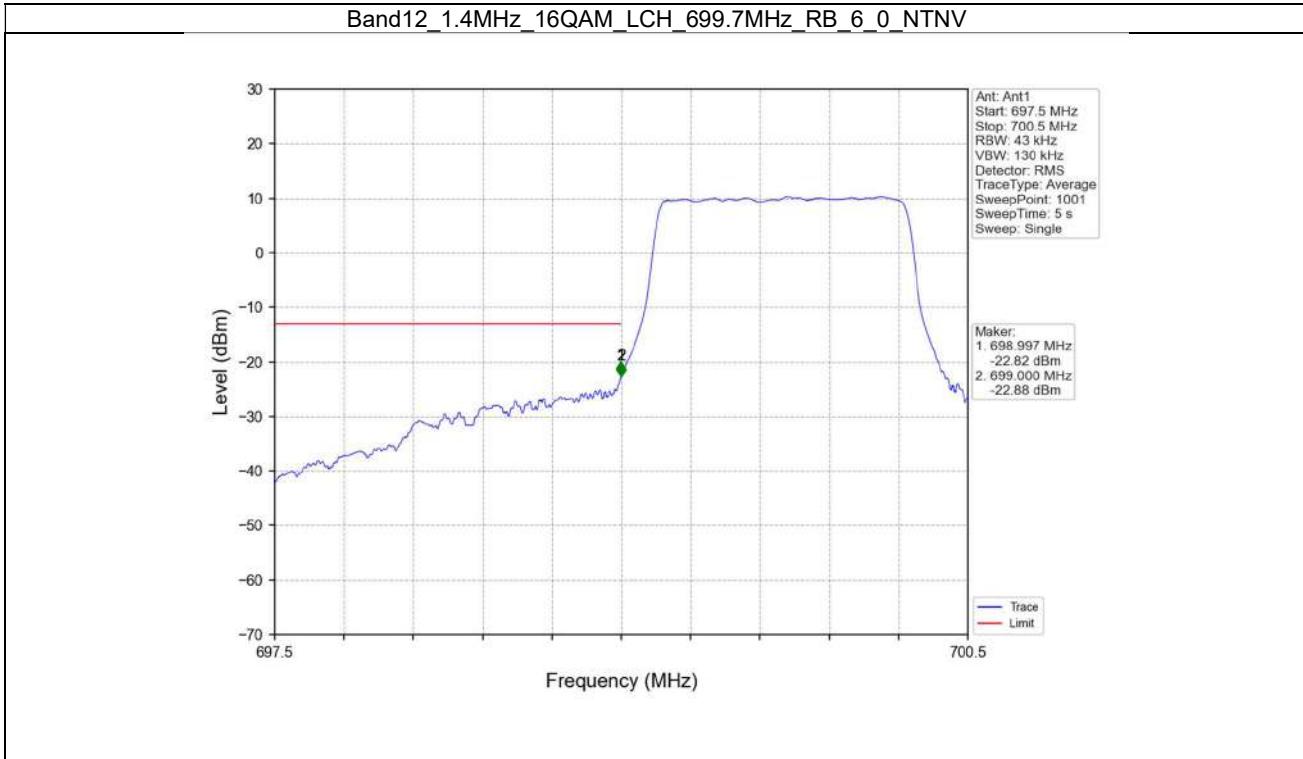
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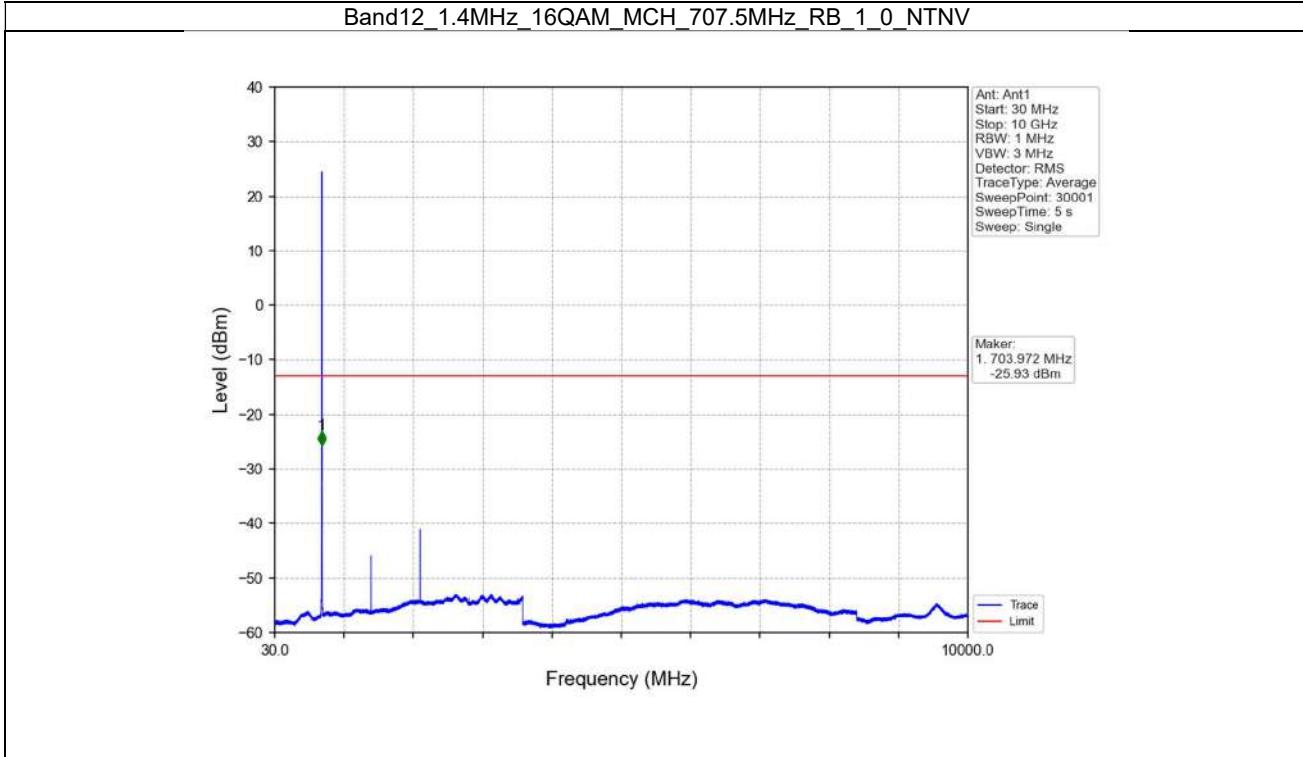
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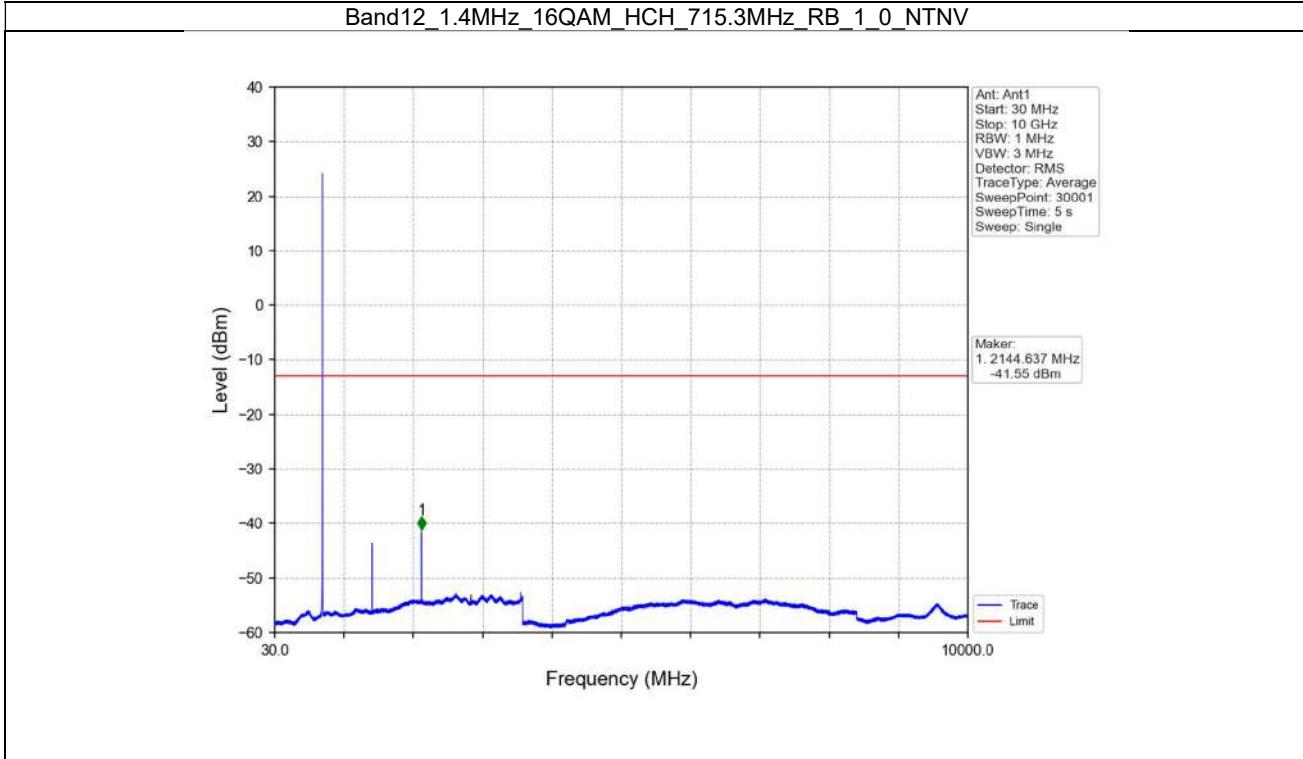
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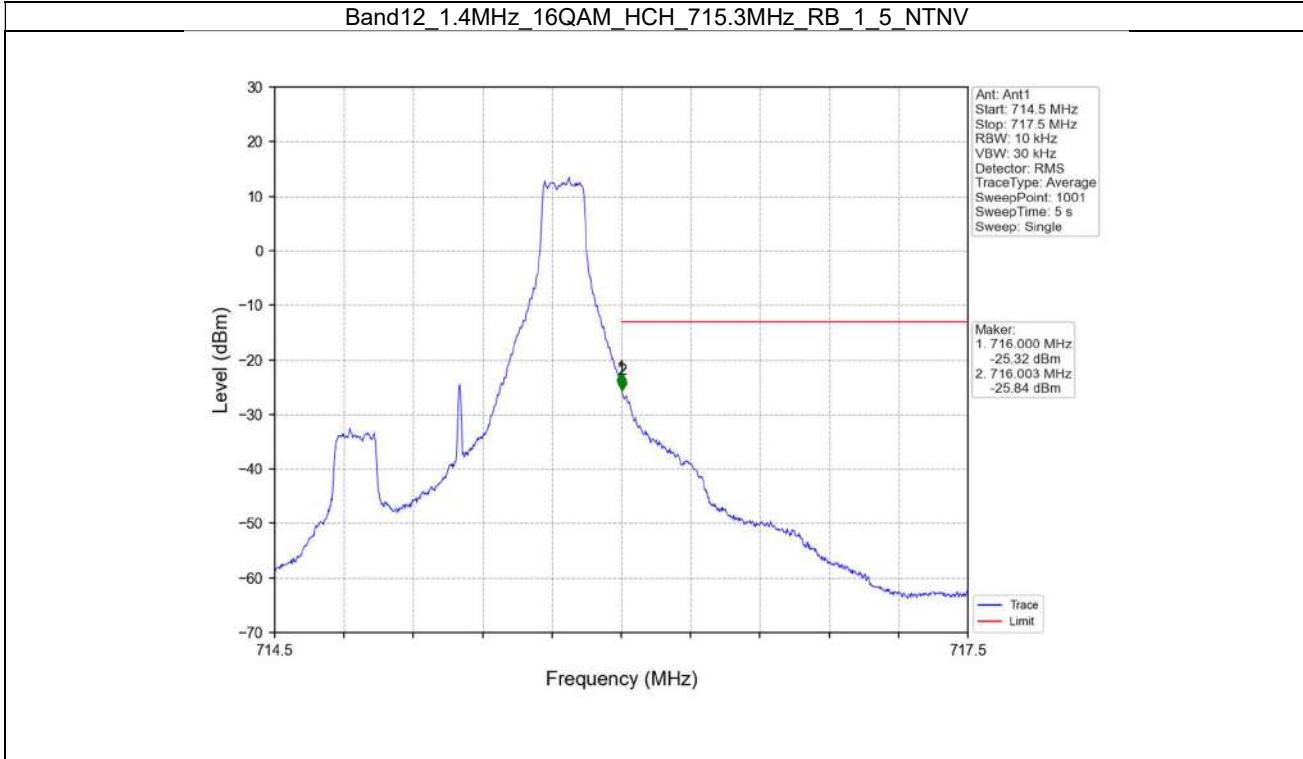


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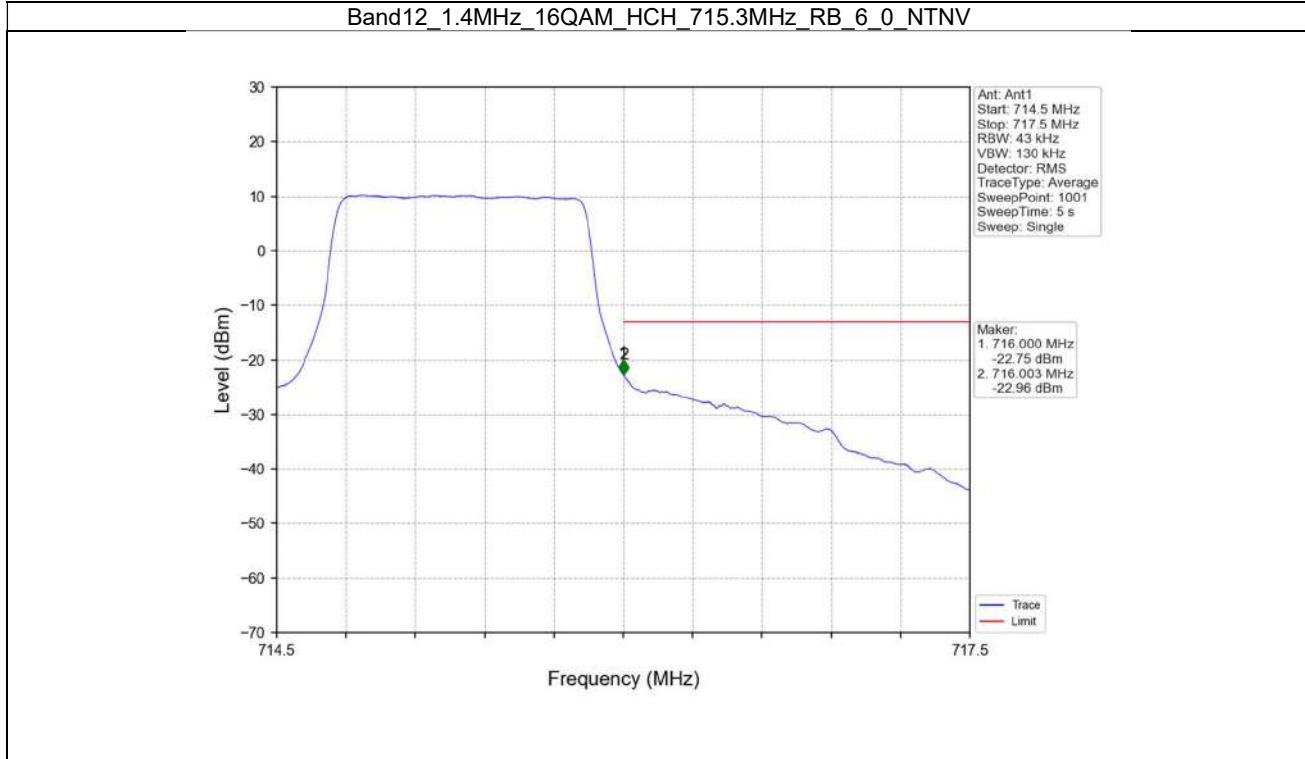
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6.2 B12_3MHz

6.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

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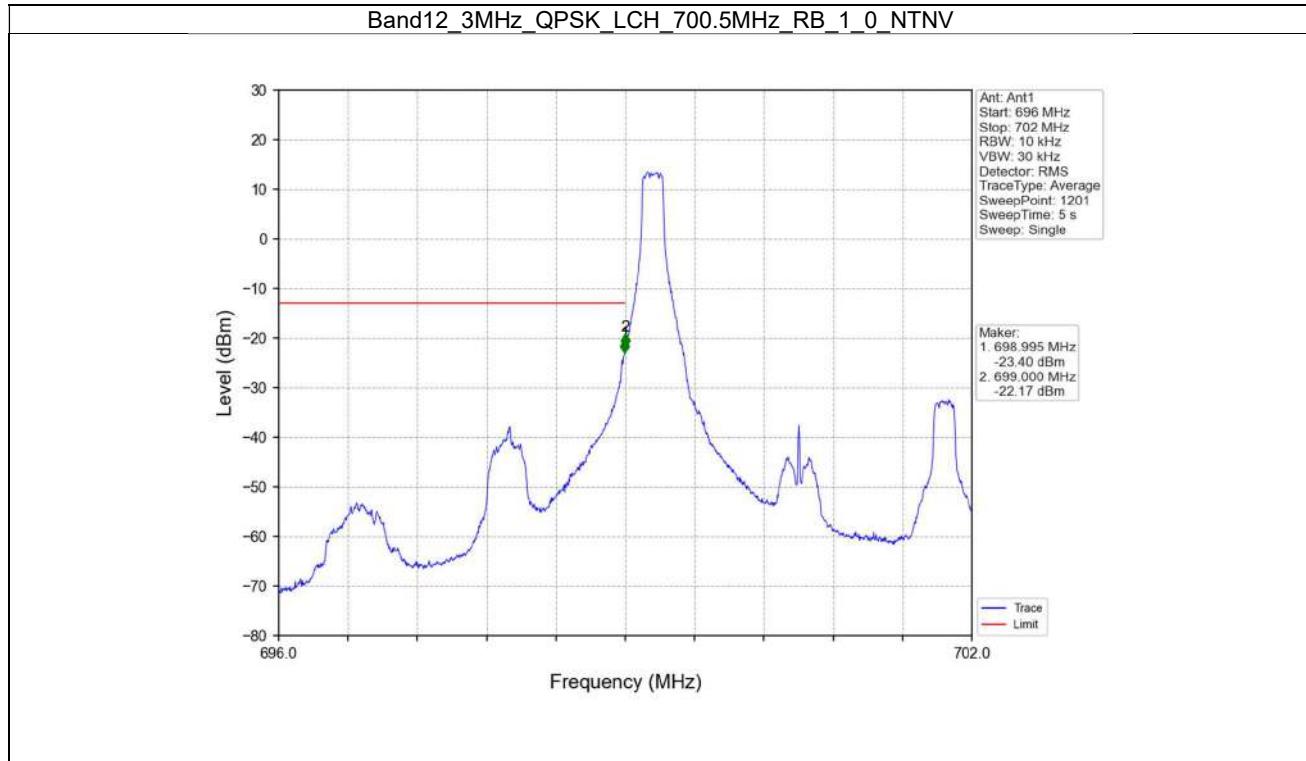
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6.2.2 Test Graph



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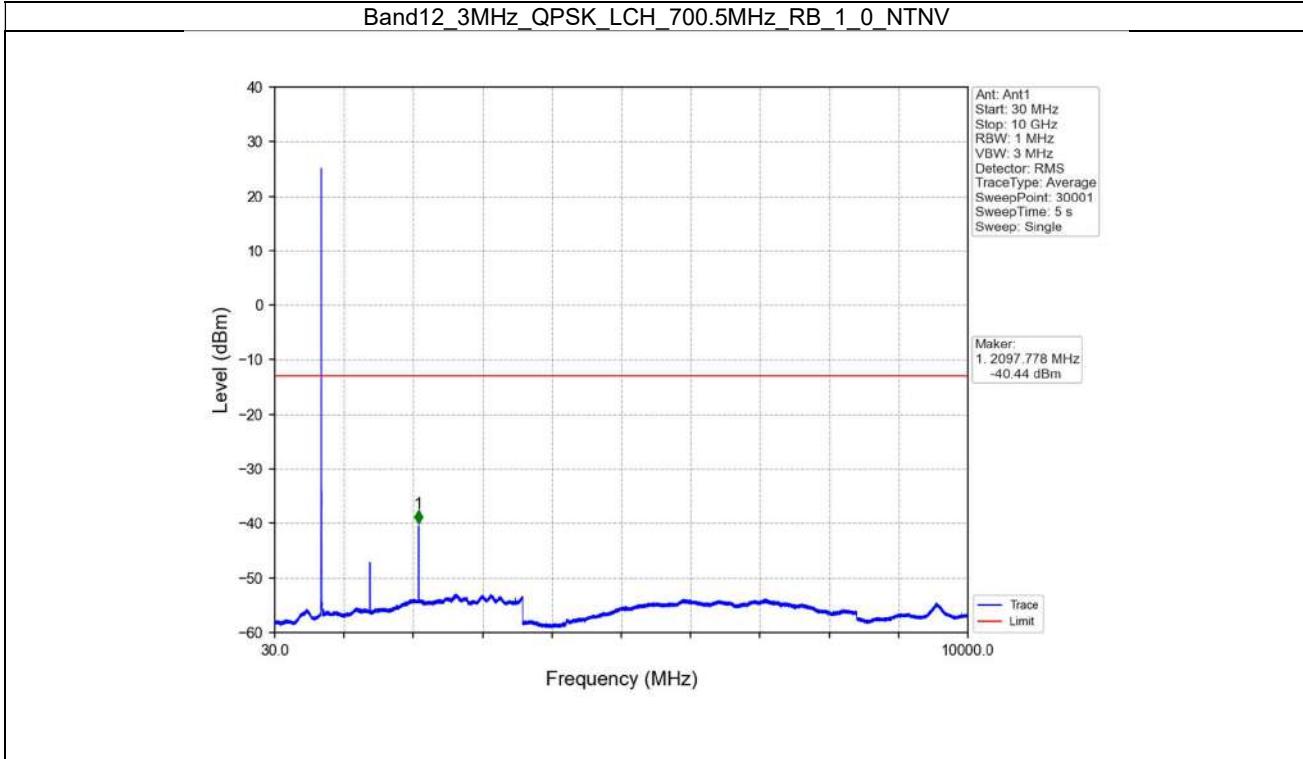
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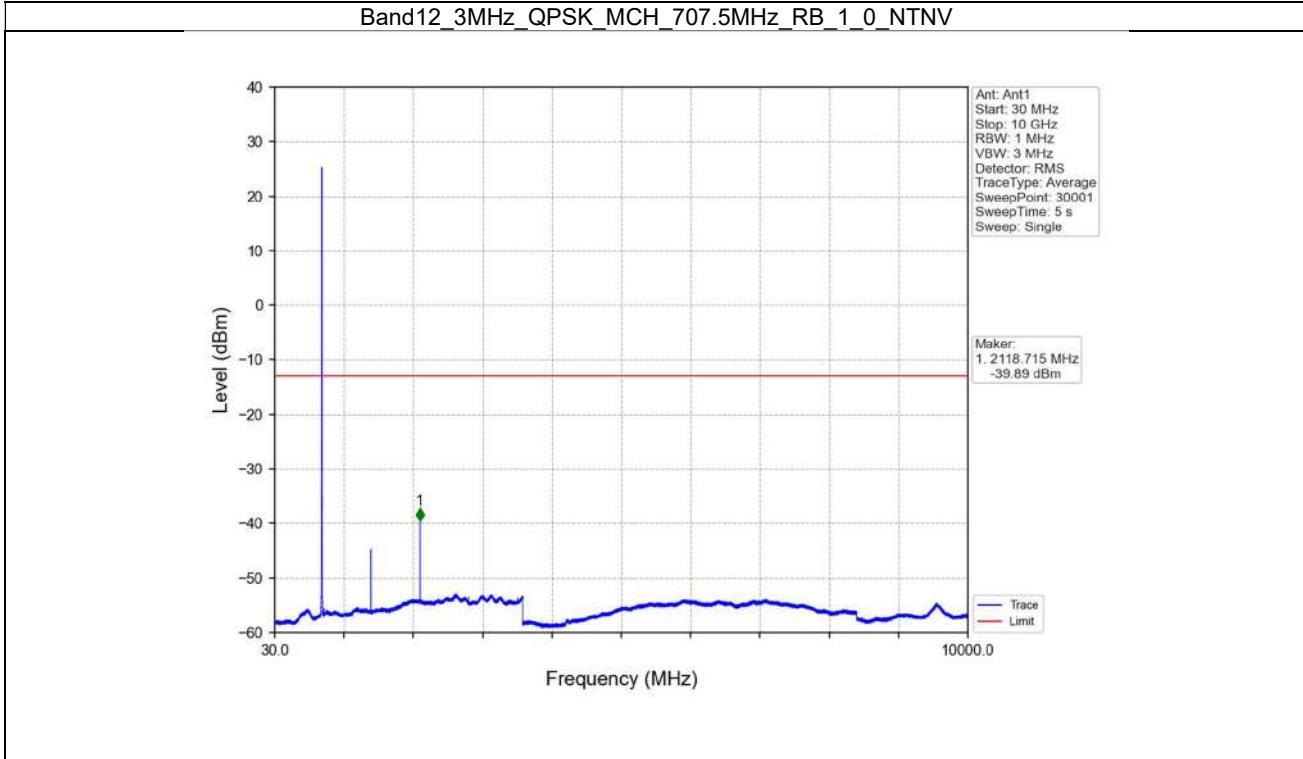
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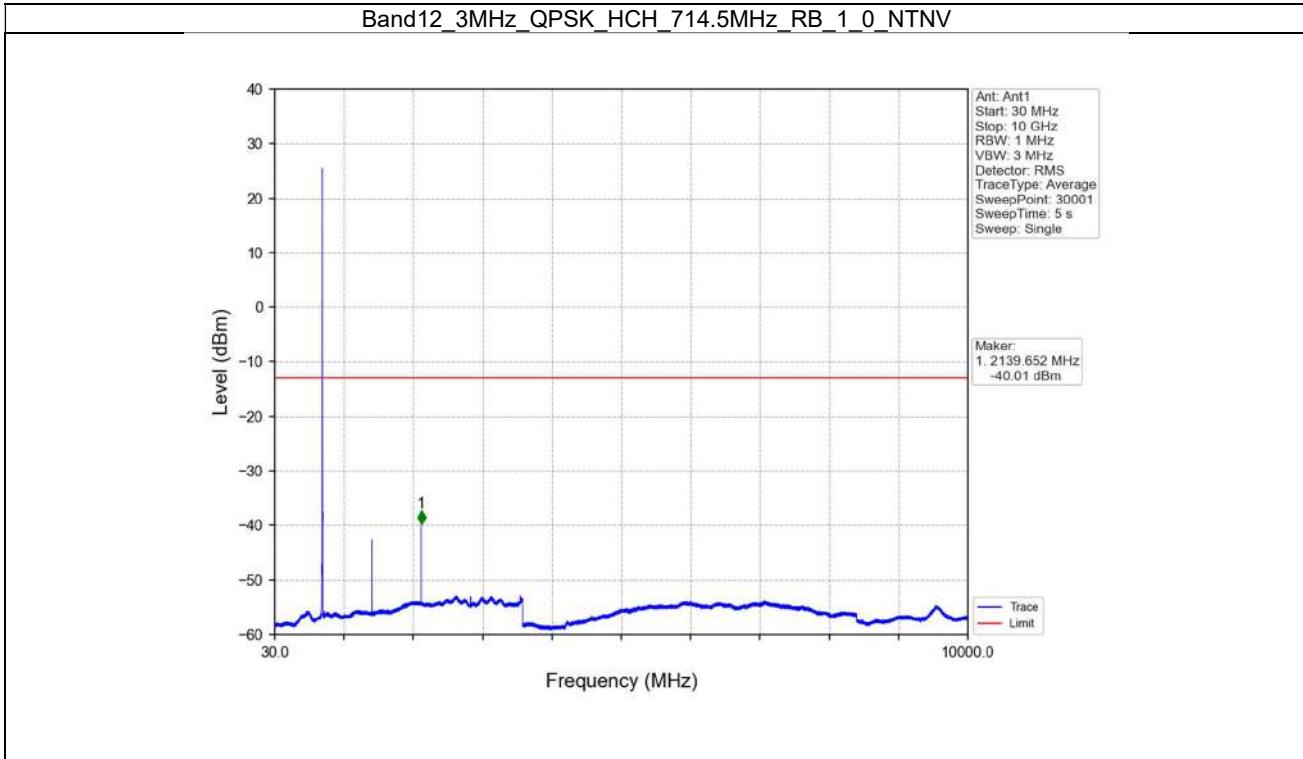
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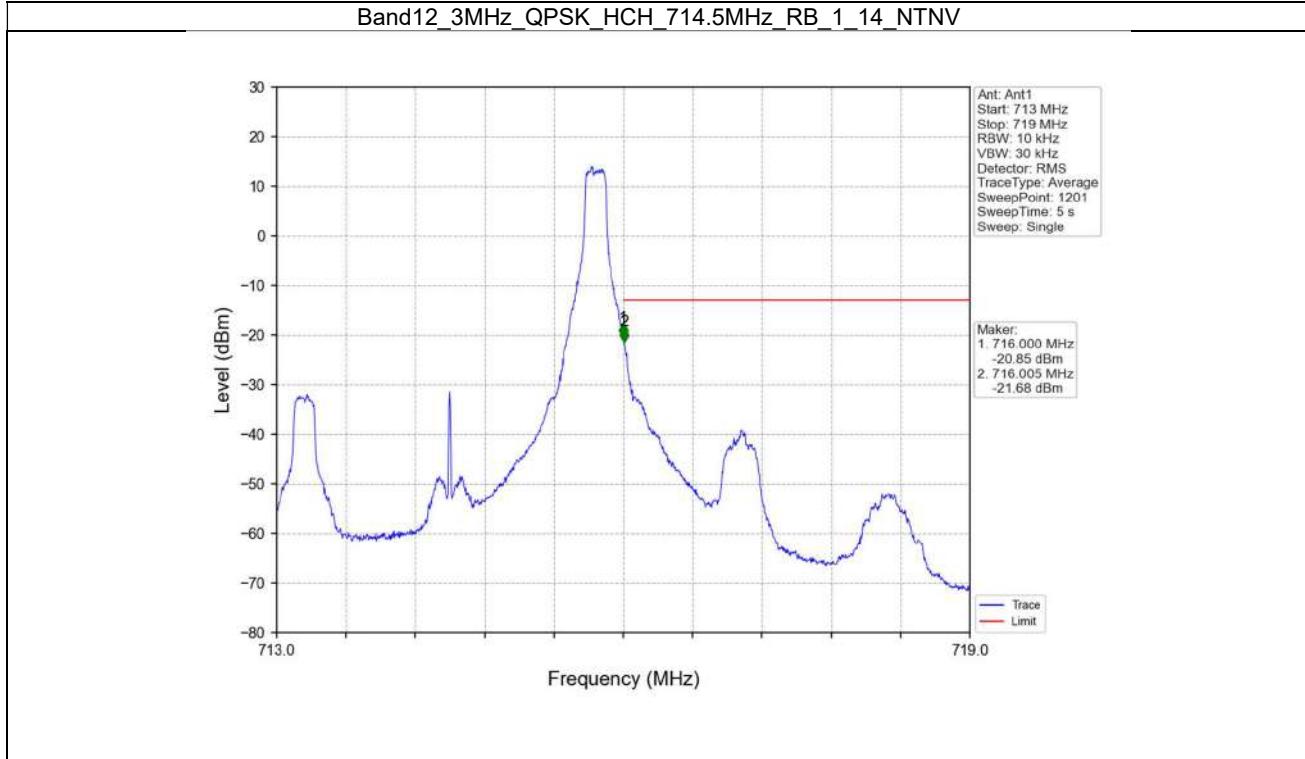
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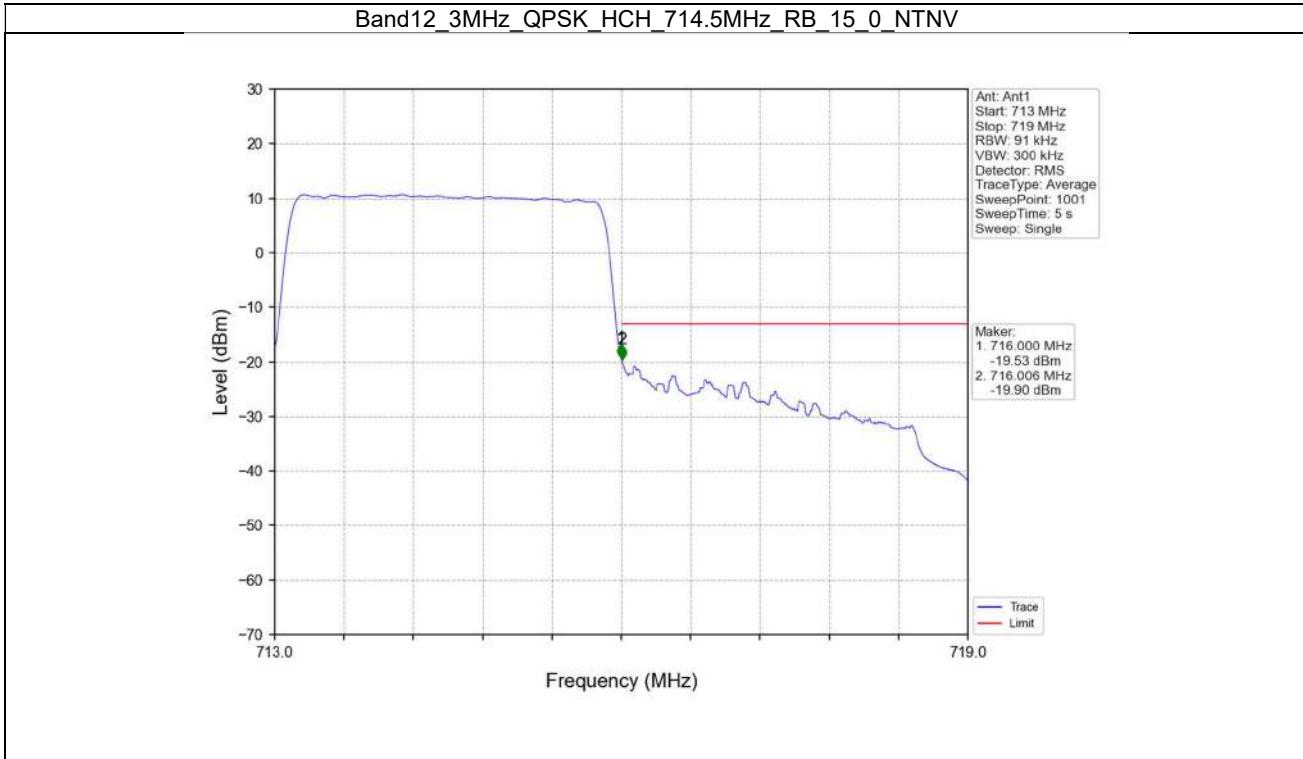
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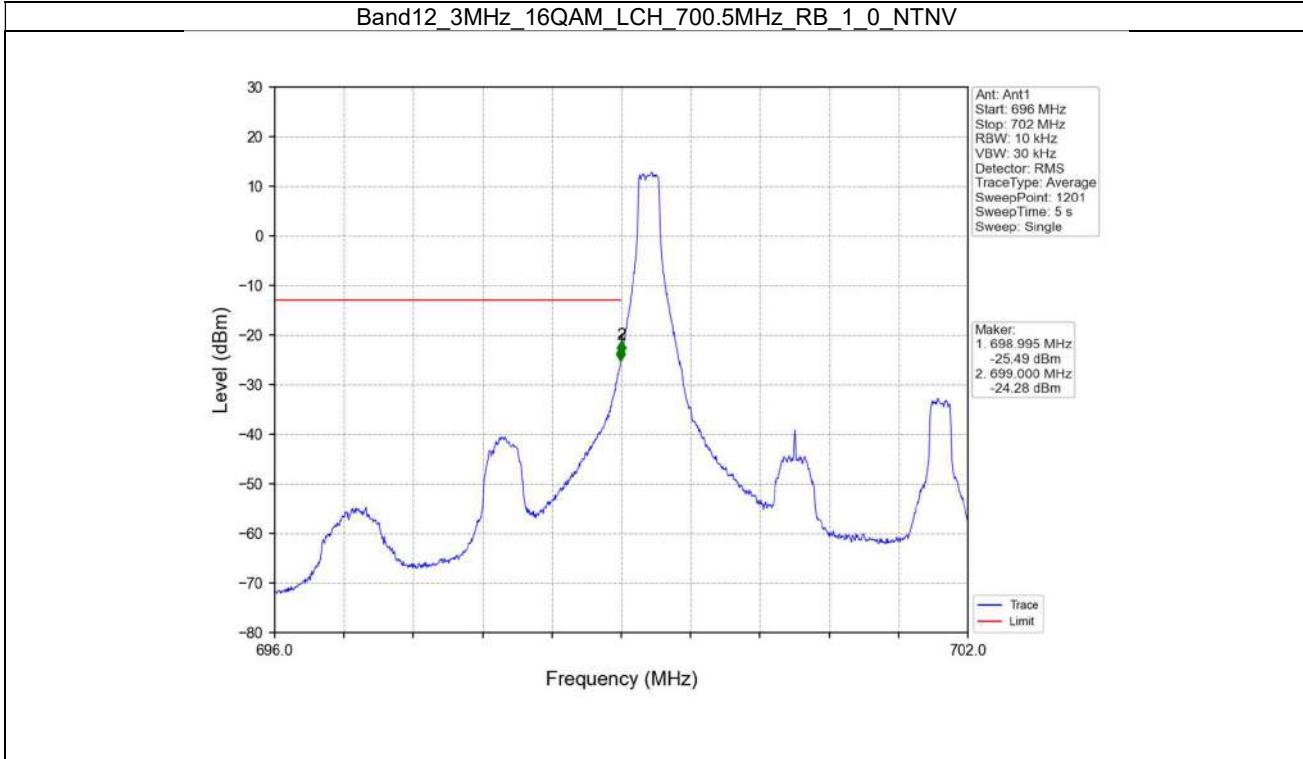
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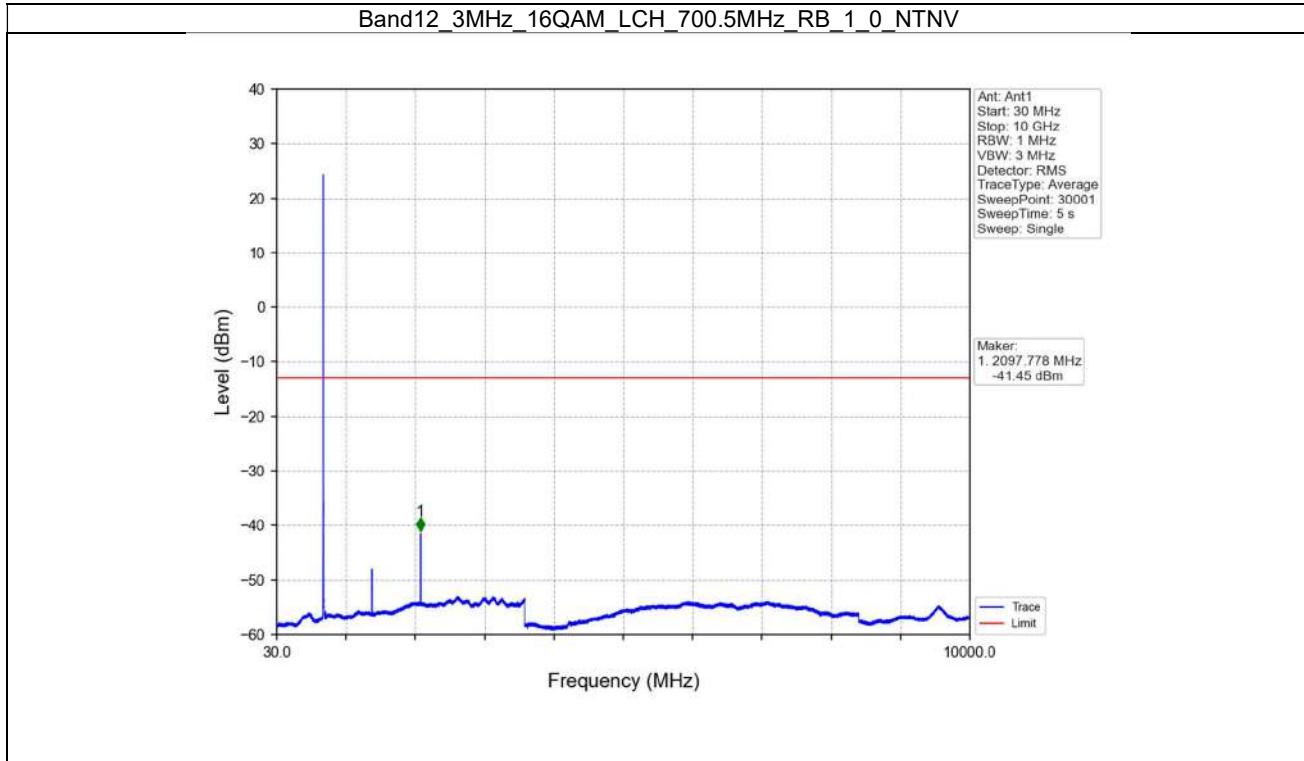
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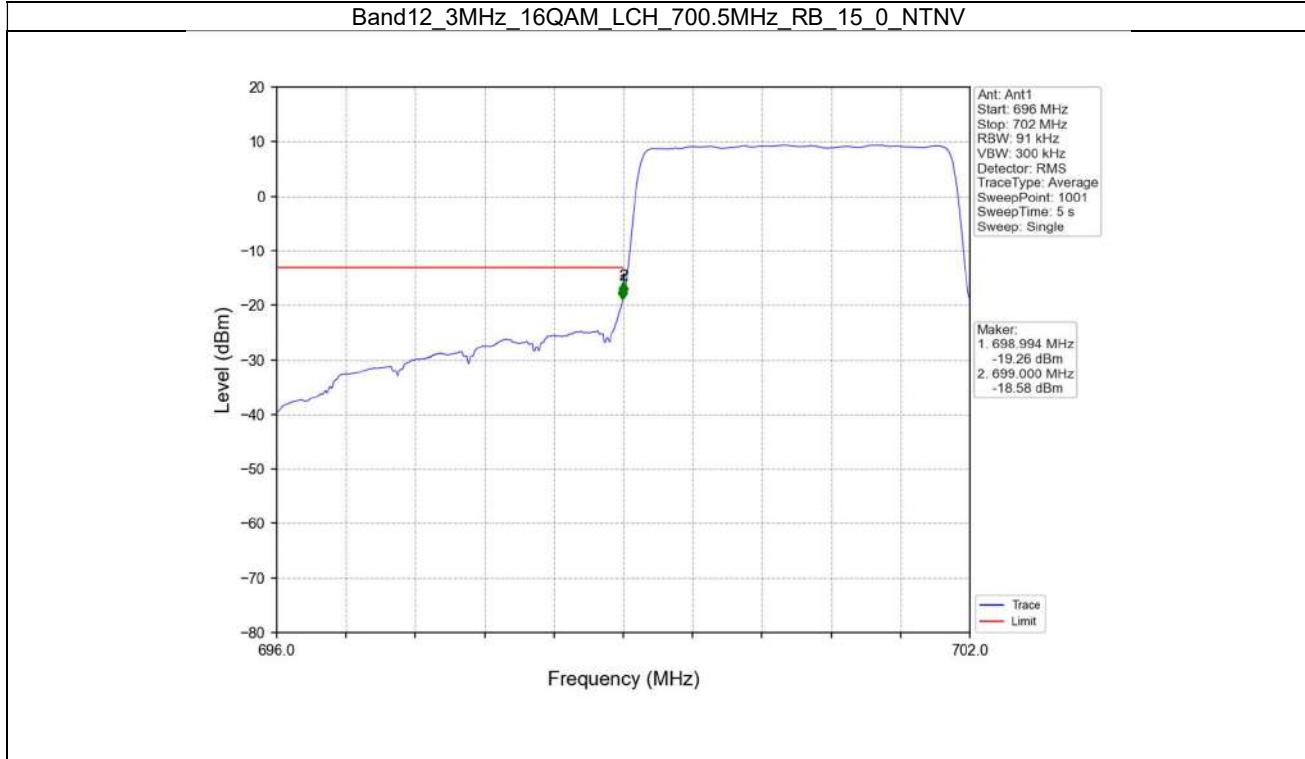


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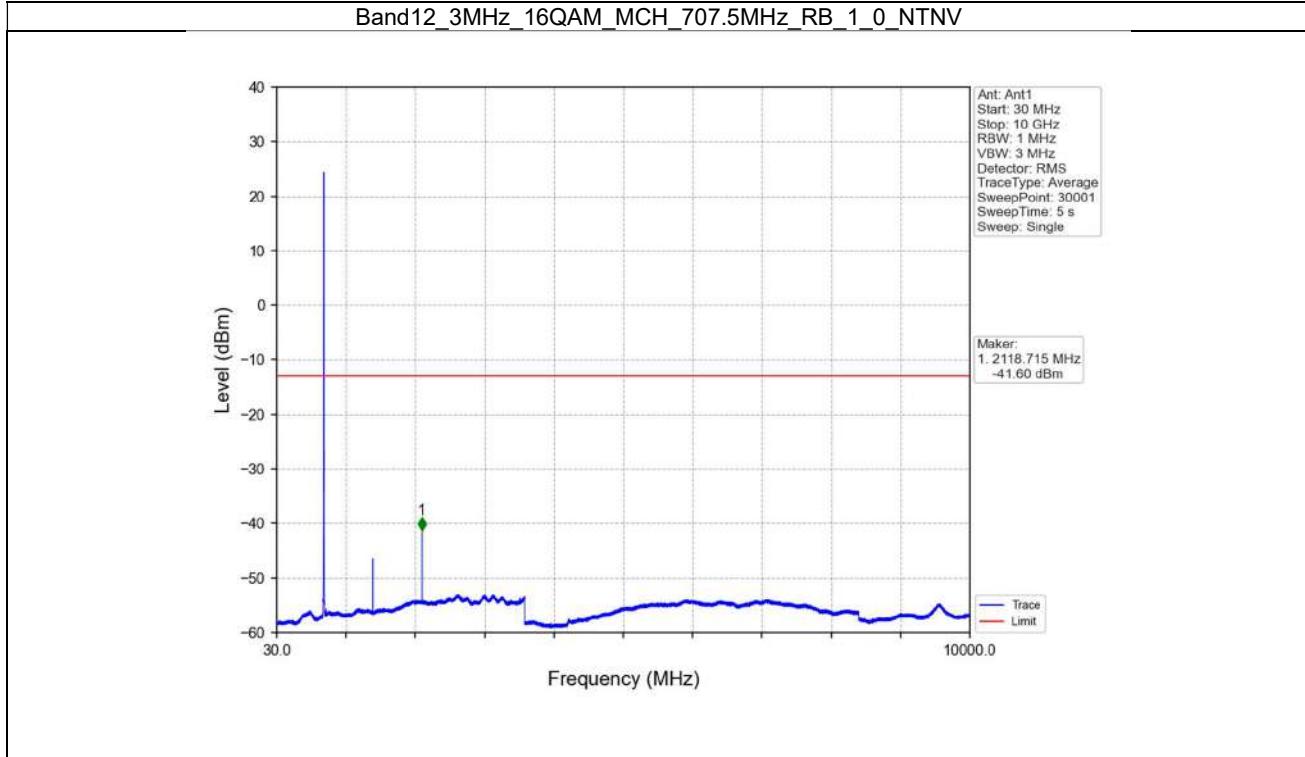
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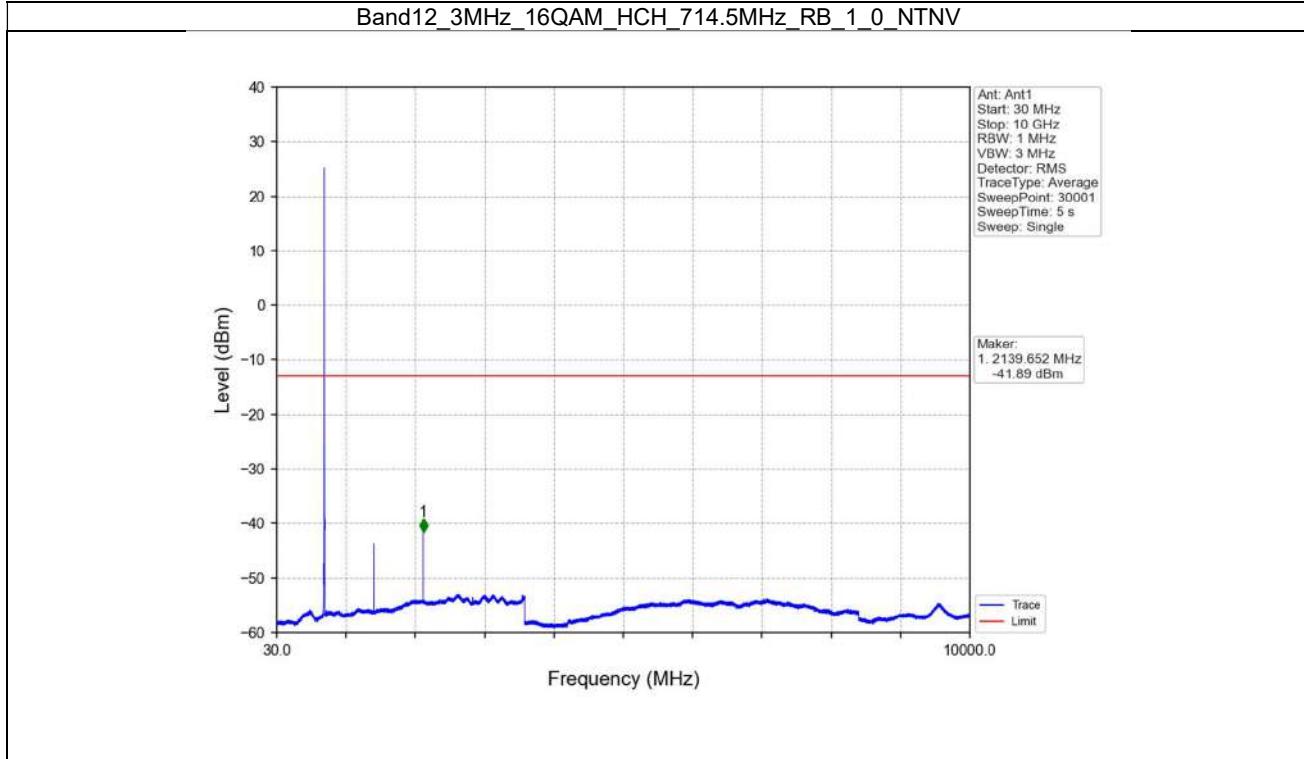


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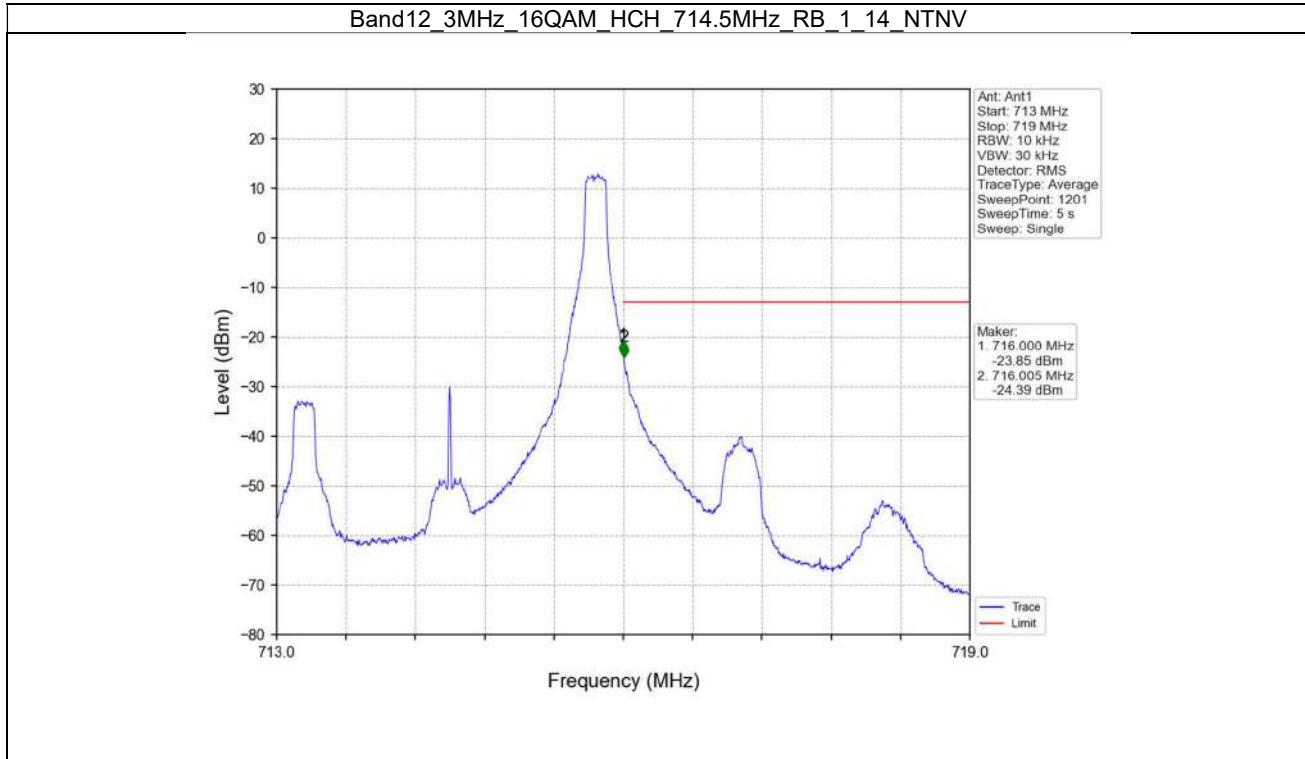
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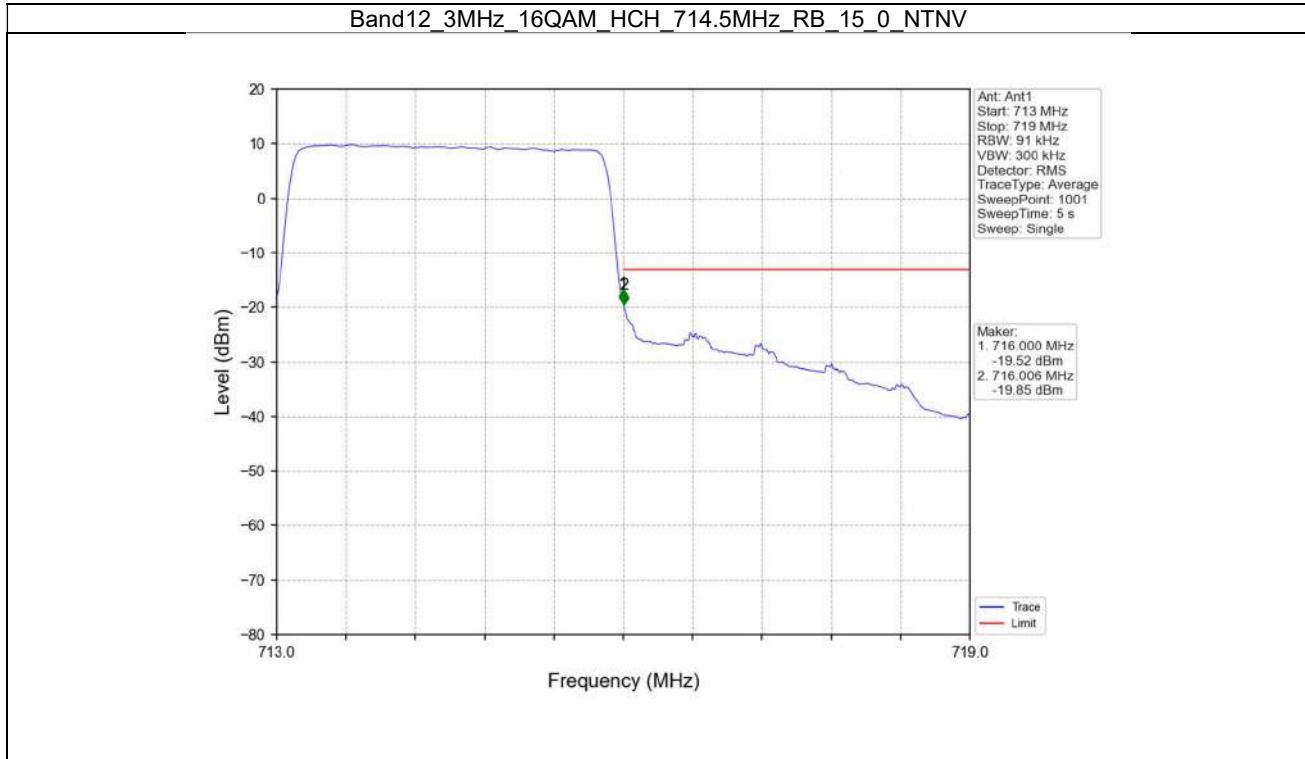
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6.3 B12_5MHz

6.3.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	701.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	707.5	1	0	Refer To Test Graph		Pass	
		1	0	Refer To Test Graph		Pass	
	713.5		24	Refer To Test Graph		Pass	
			25	Refer To Test Graph		Pass	
16QAM	701.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	707.5	1	0	Refer To Test Graph		Pass	
		1	0	Refer To Test Graph		Pass	
	713.5		24	Refer To Test Graph		Pass	
			25	Refer To Test Graph		Pass	



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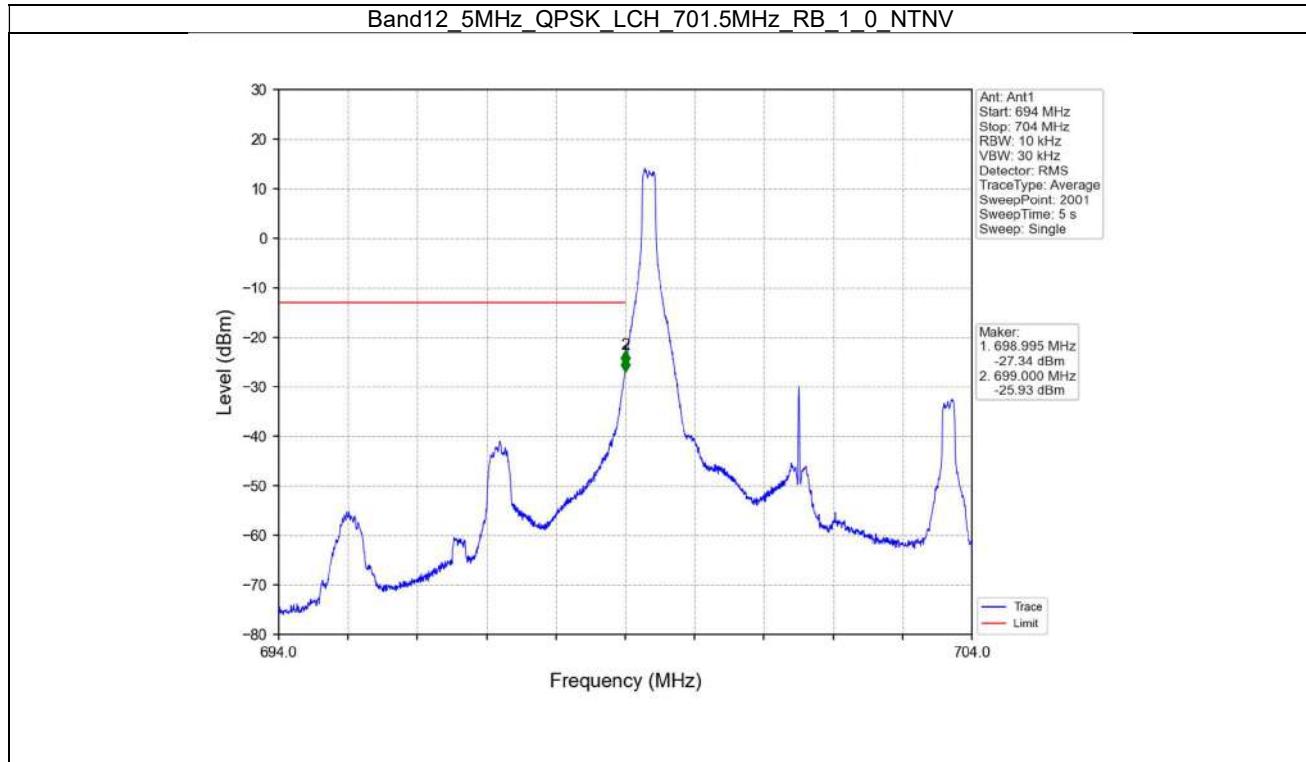
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6.3.2 Test Graph



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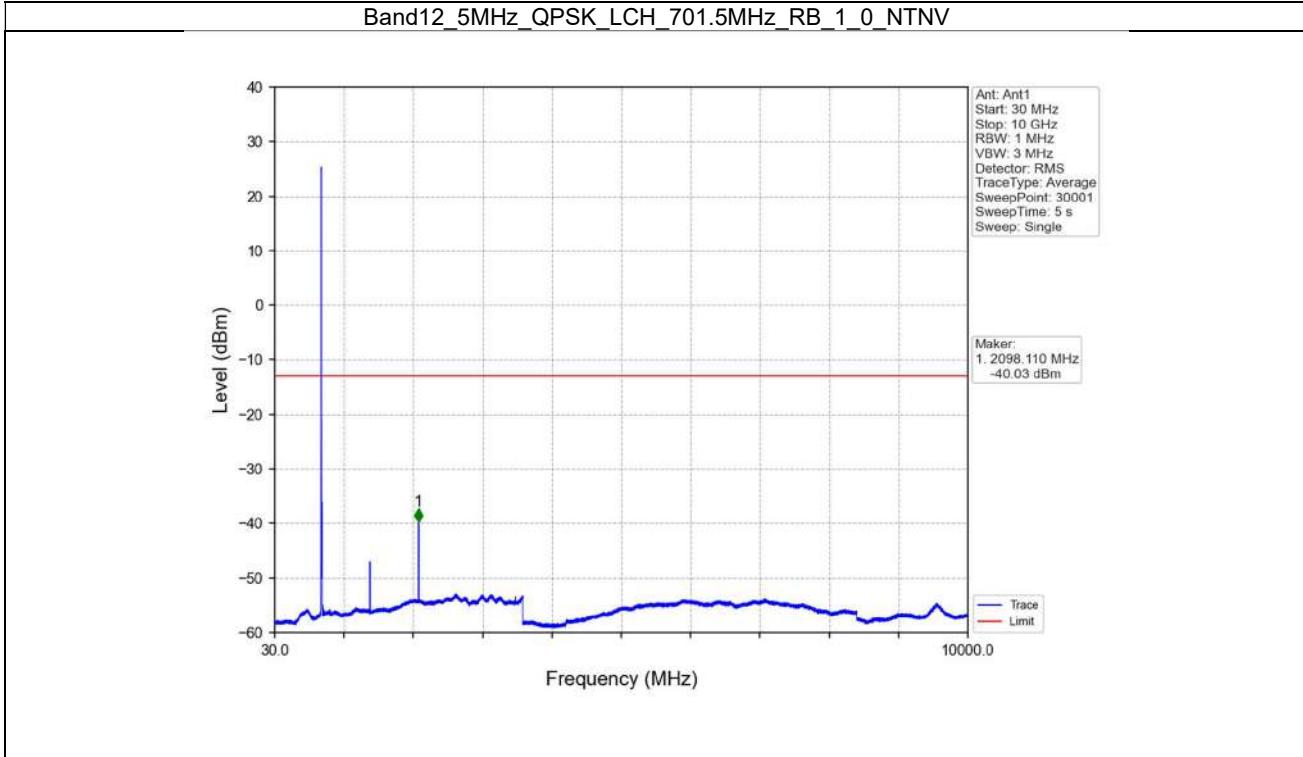
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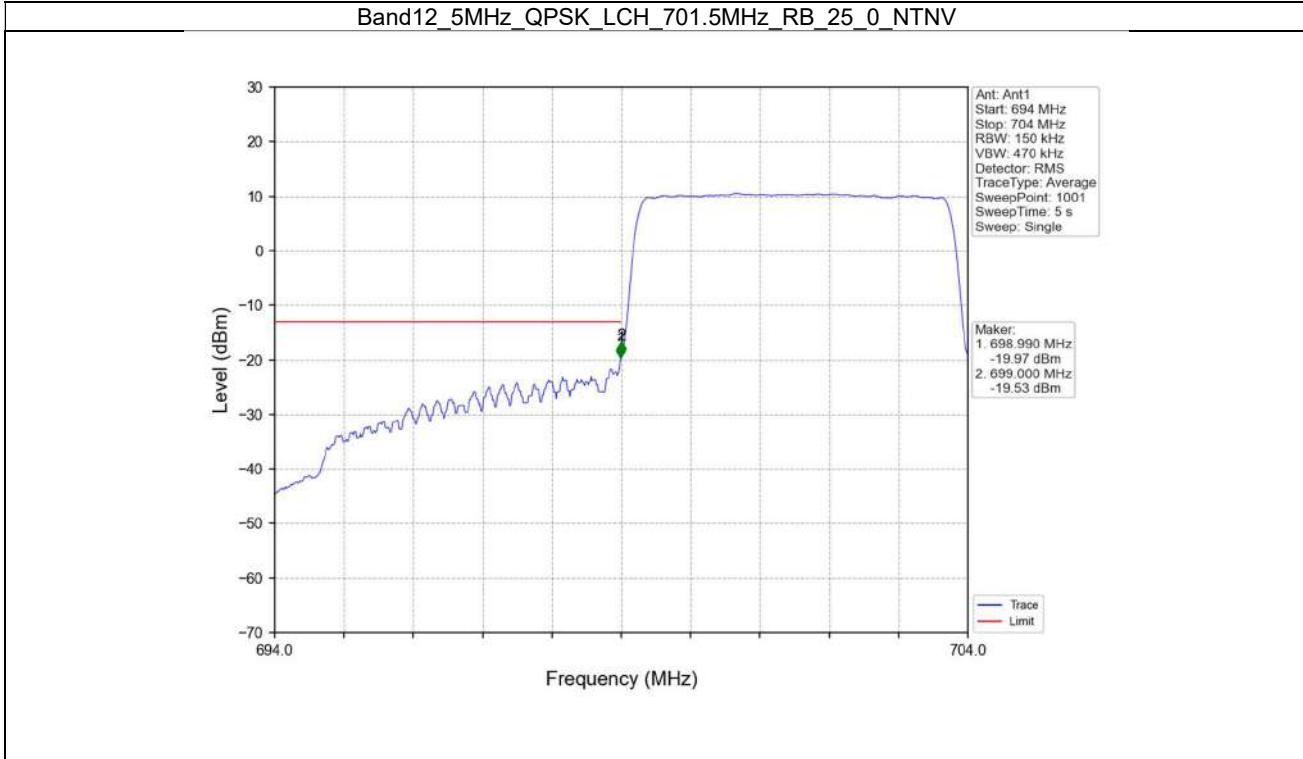
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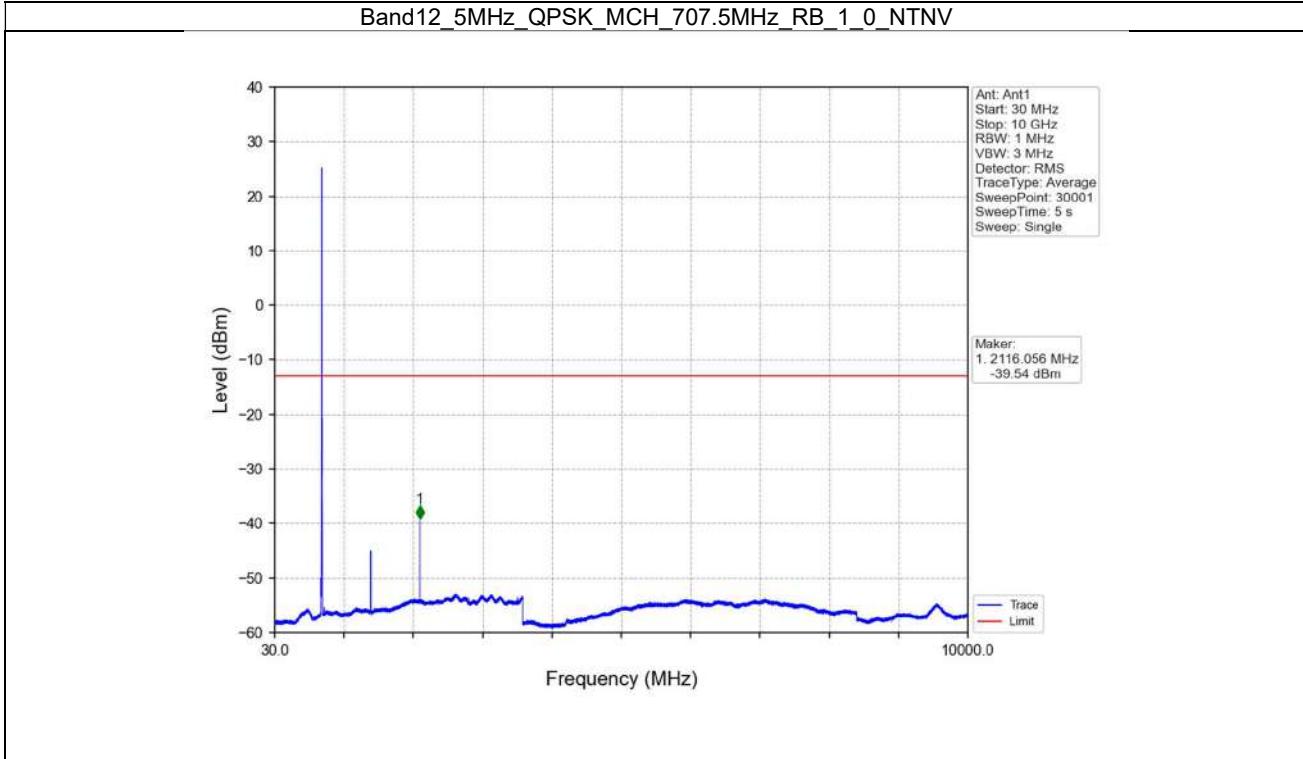
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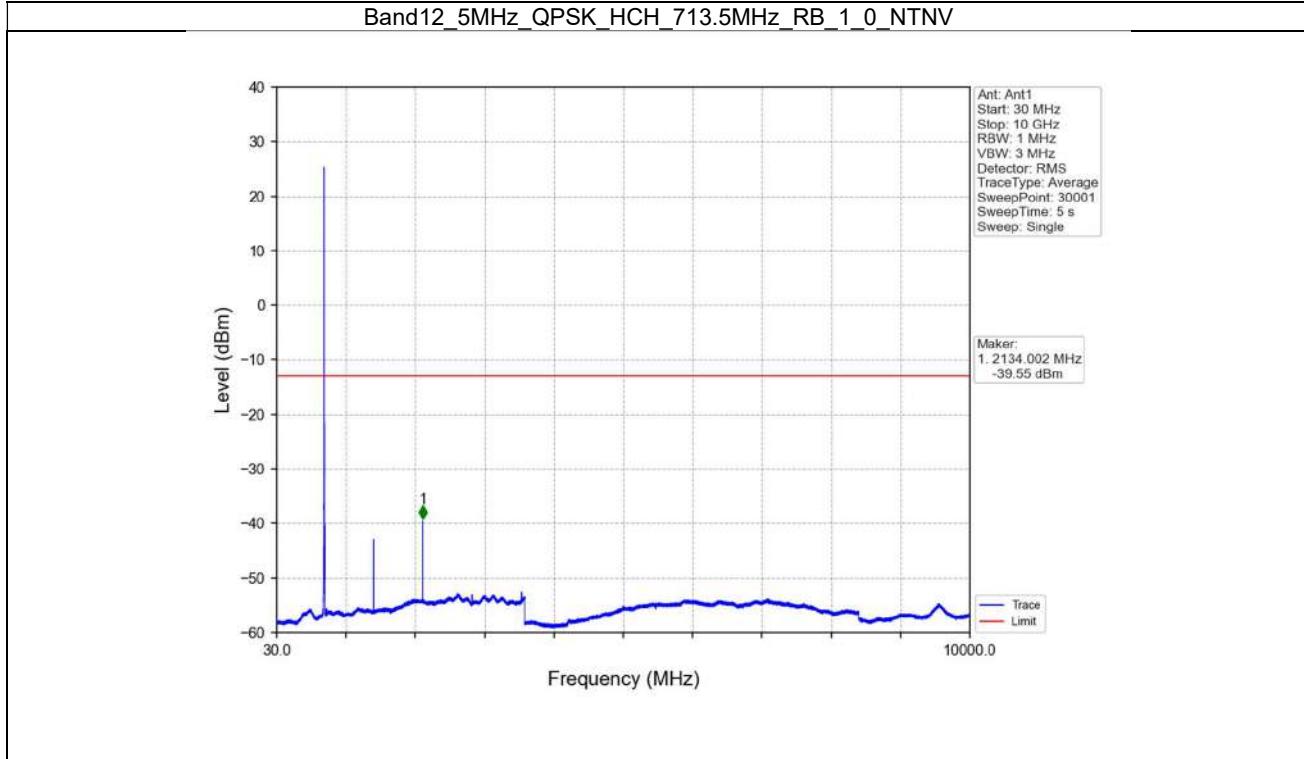
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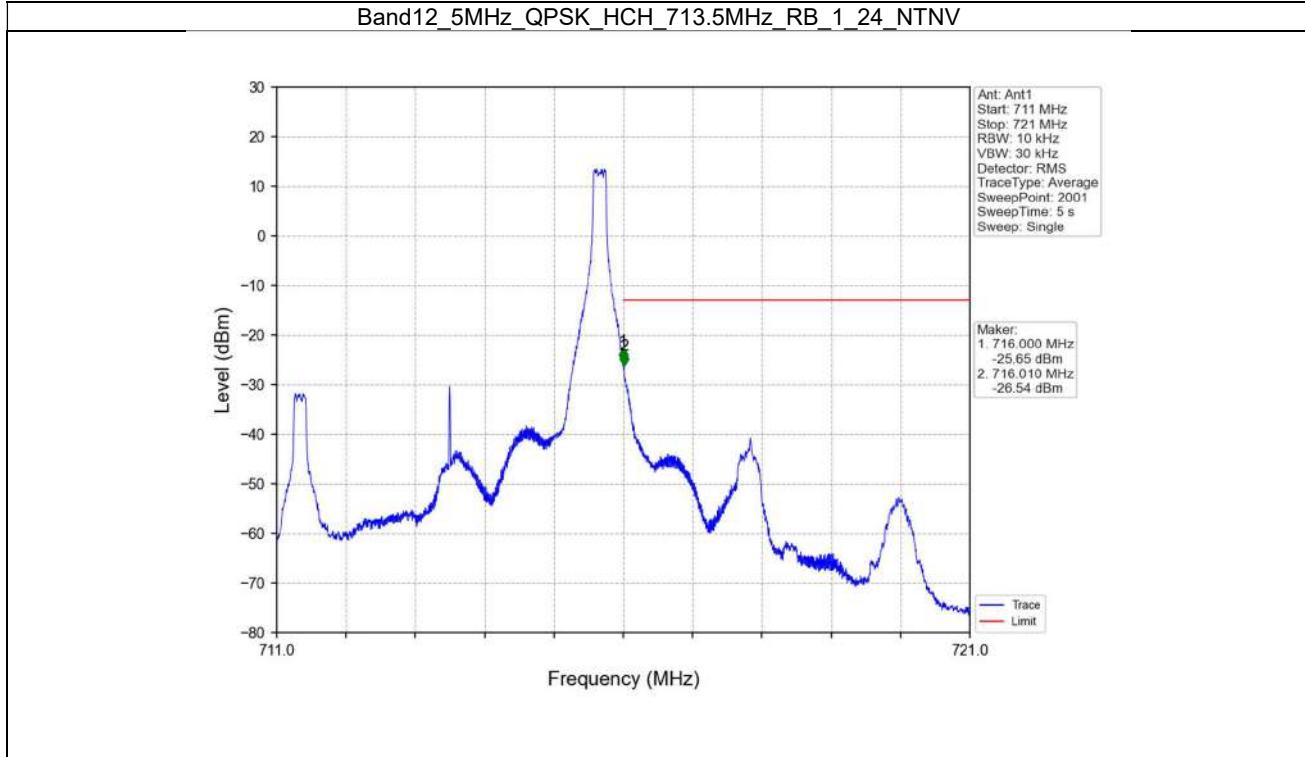


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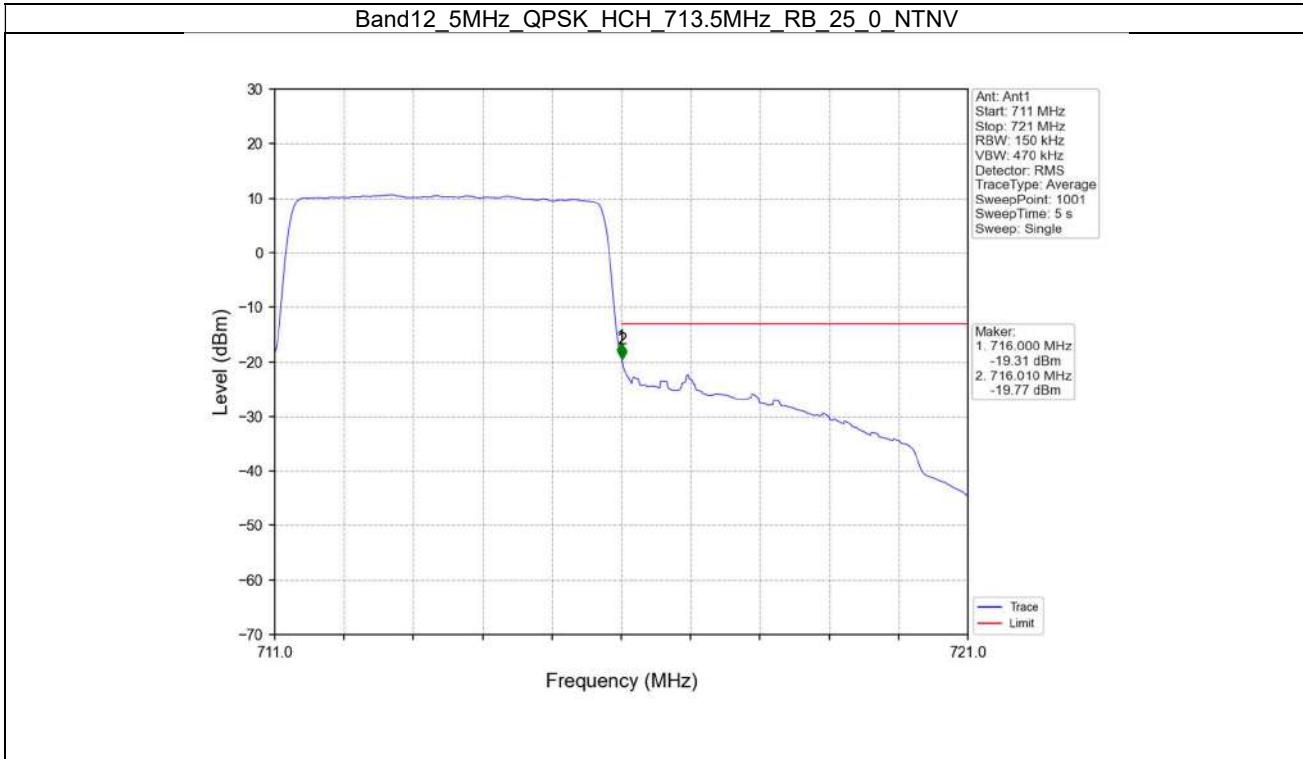
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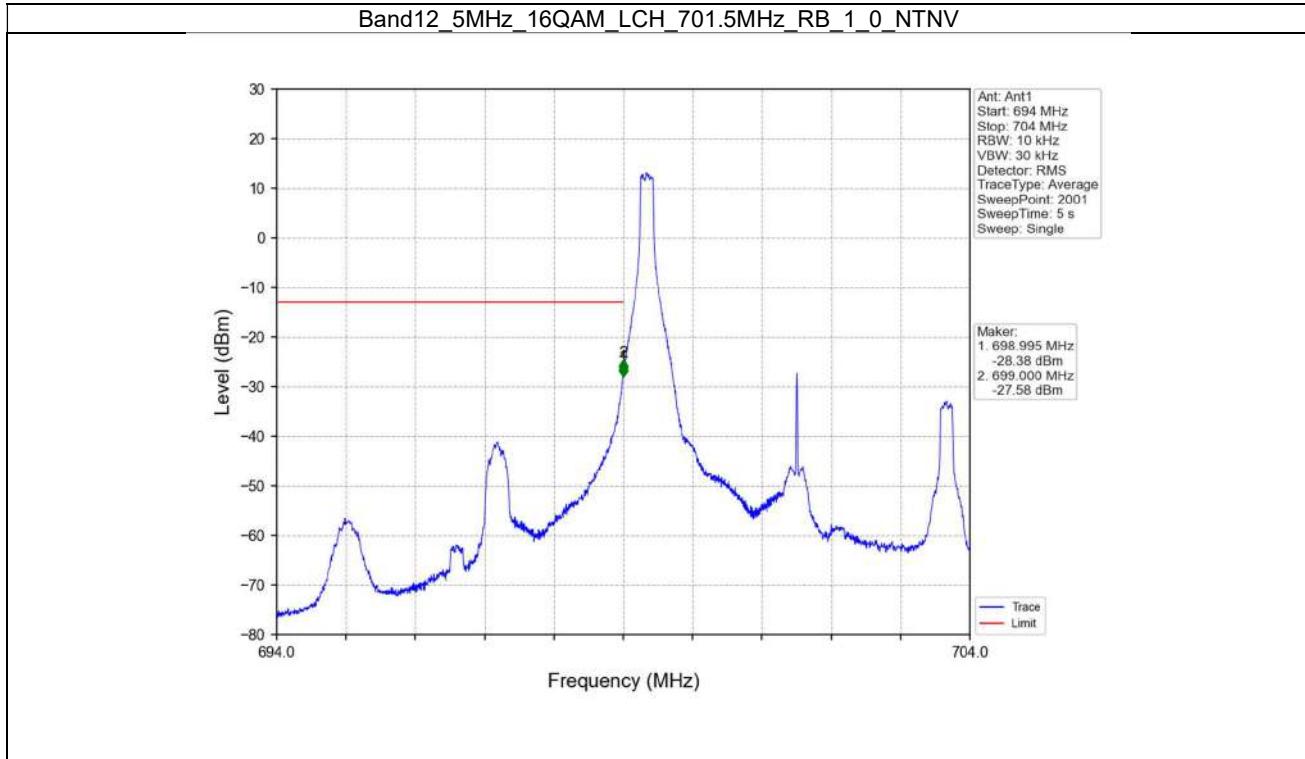
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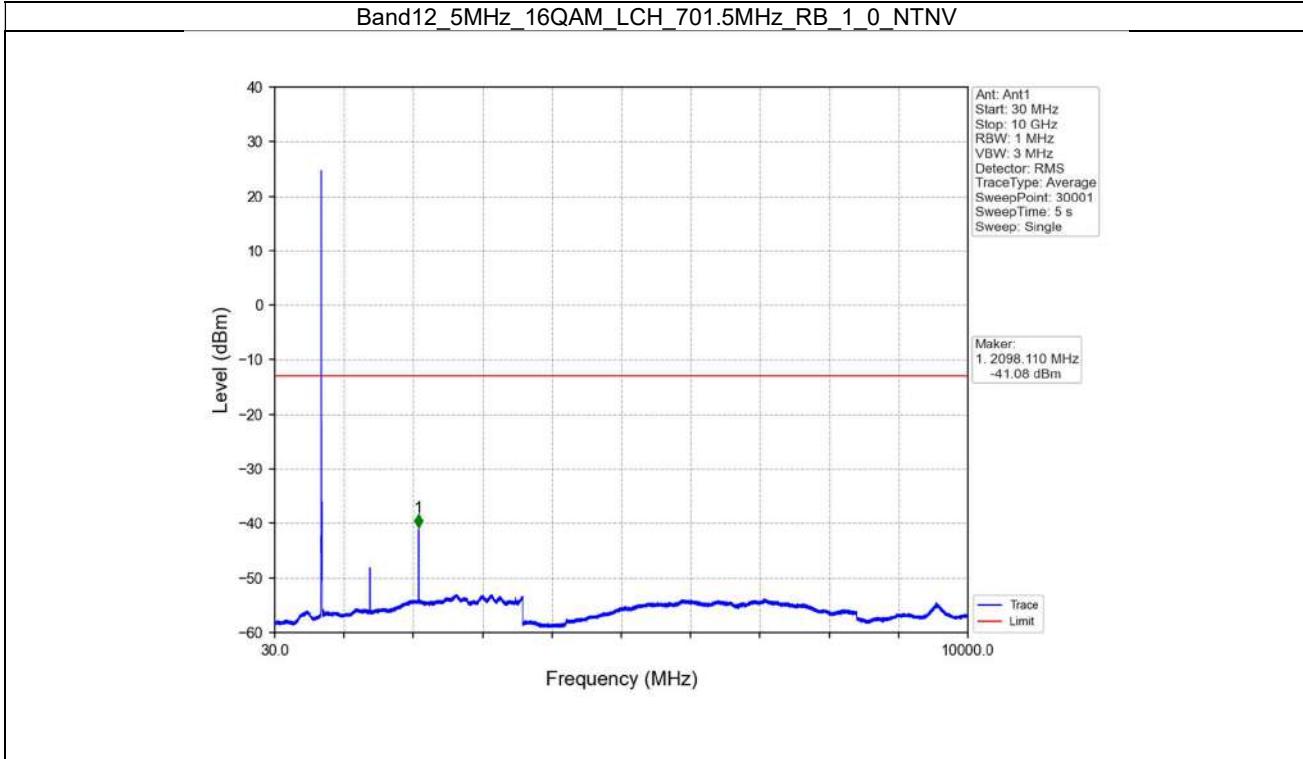
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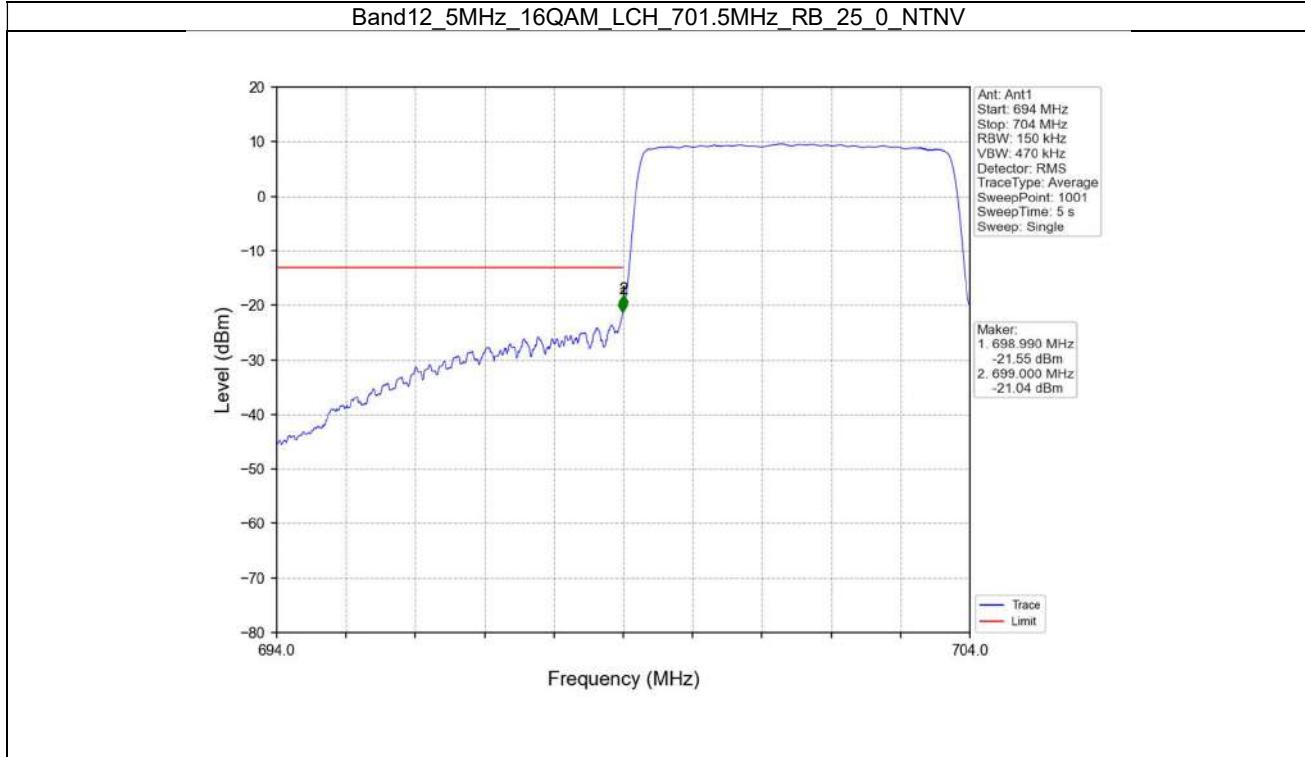
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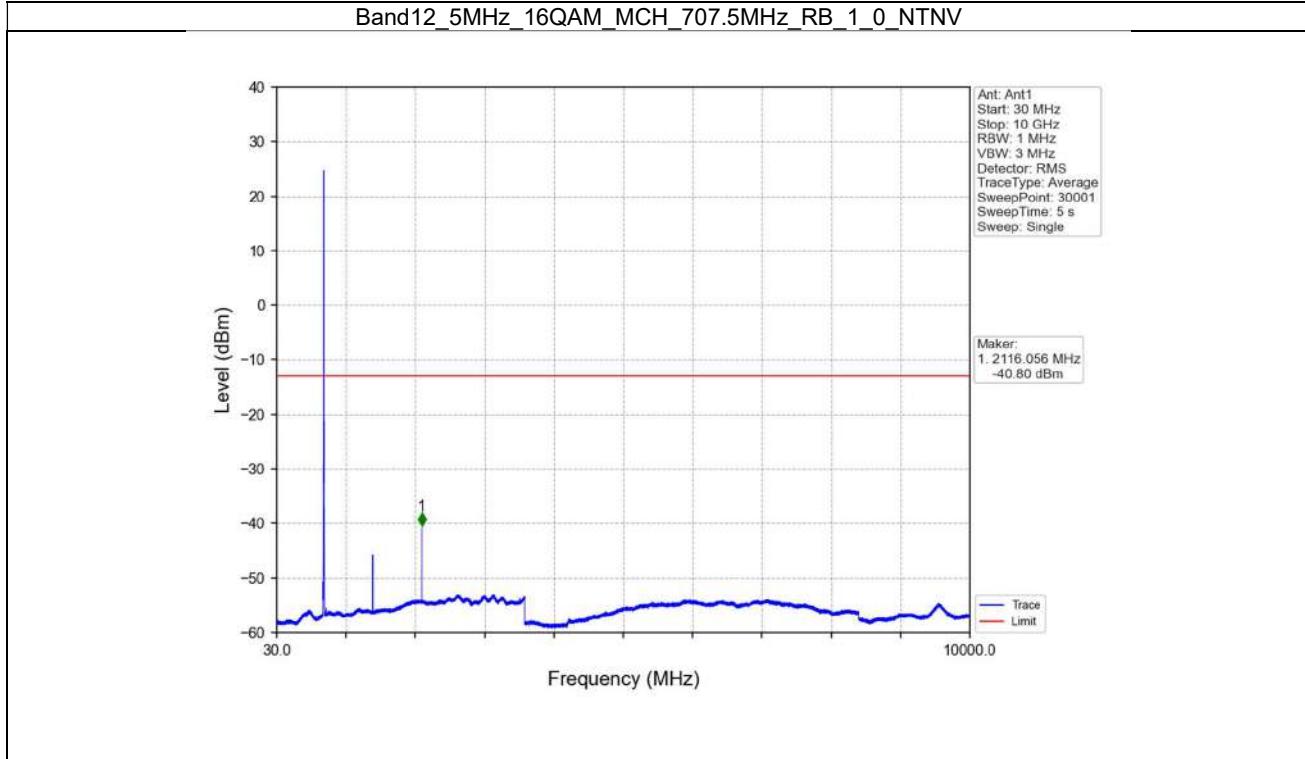


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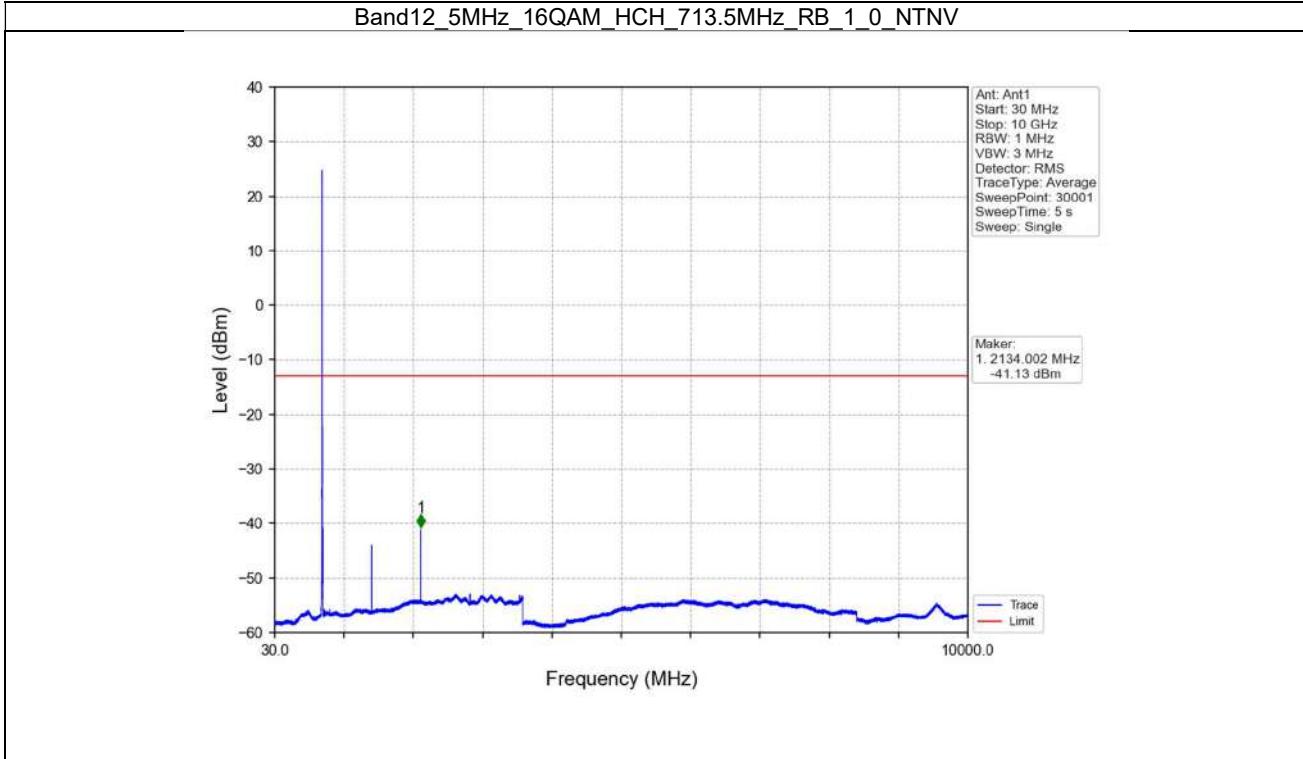
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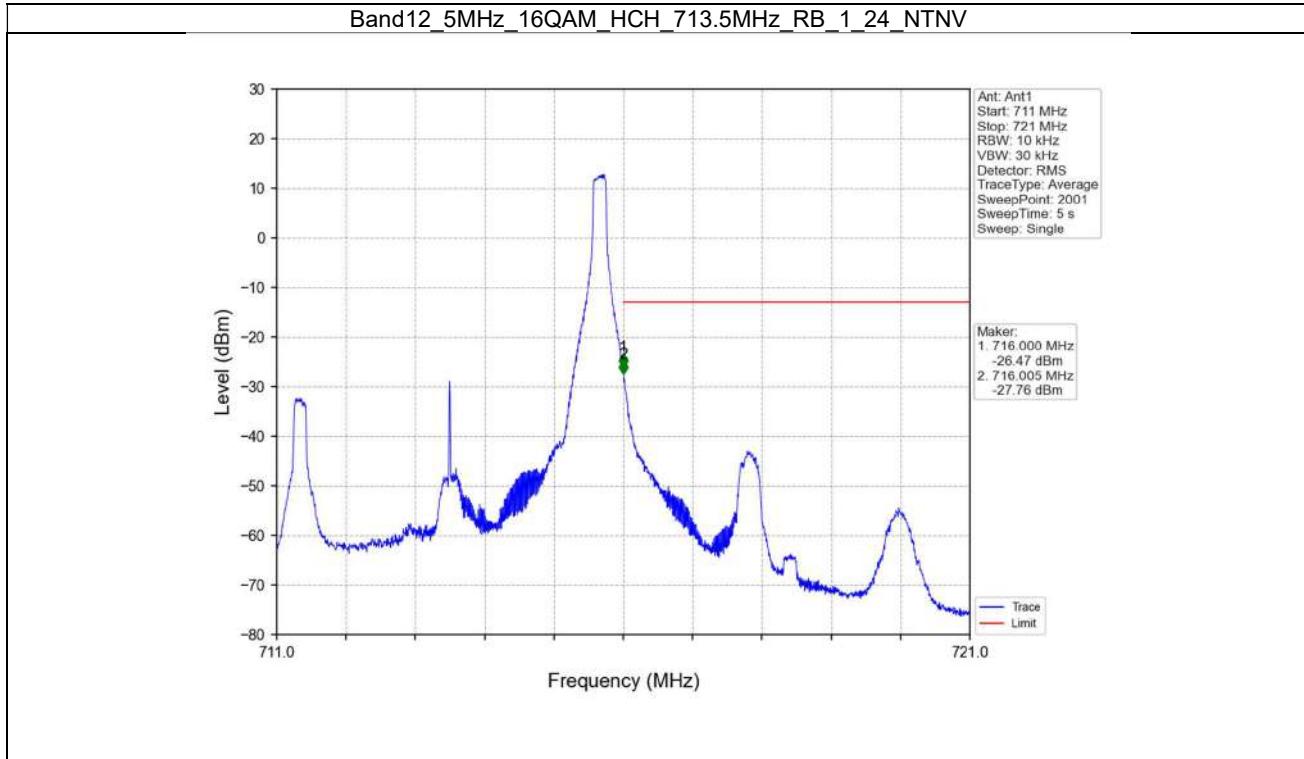
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6.4 B12_10MHz

6.4.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		711	0	Refer To Test Graph		Pass
	711	1	49	Refer To Test Graph		Pass
		50	Refer To Test Graph		Pass	
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		711	0	Refer To Test Graph		Pass
	711	1	49	Refer To Test Graph		Pass
		50	Refer To Test Graph		Pass	

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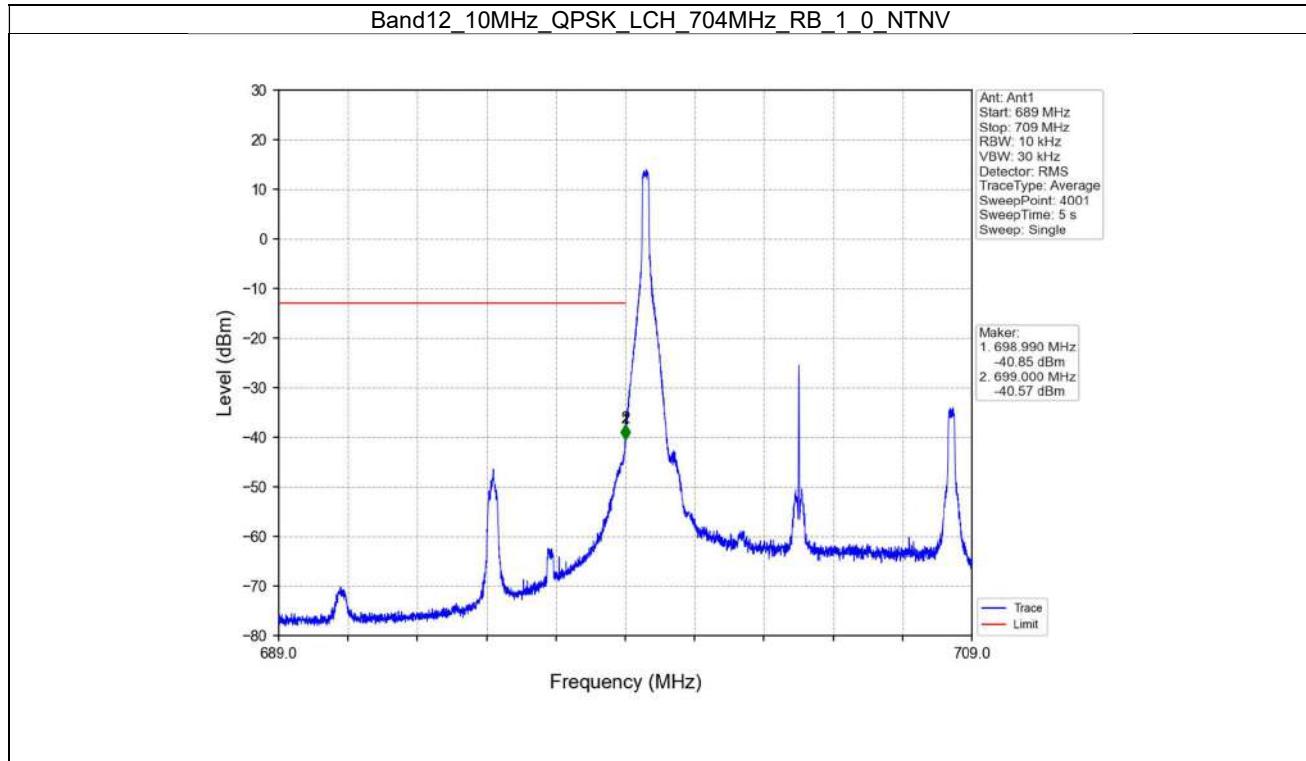
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6.4.2 Test Graph



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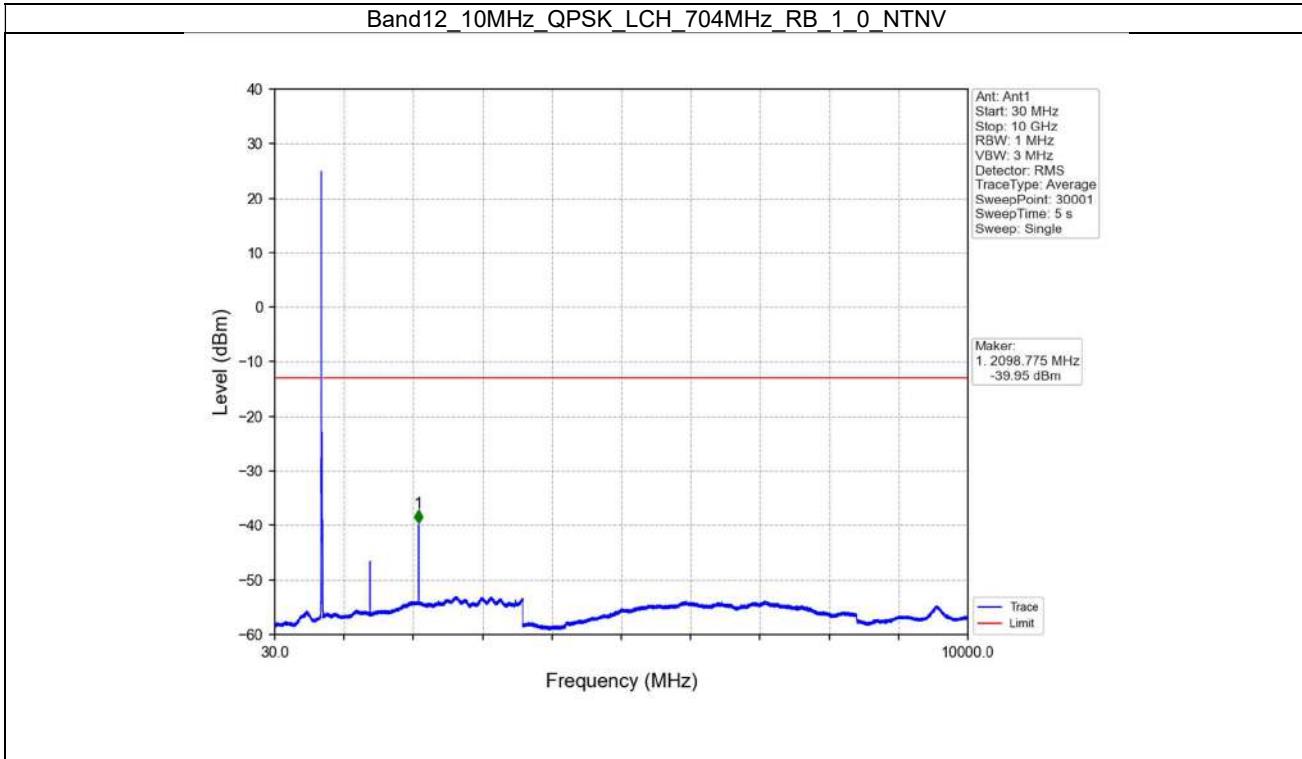
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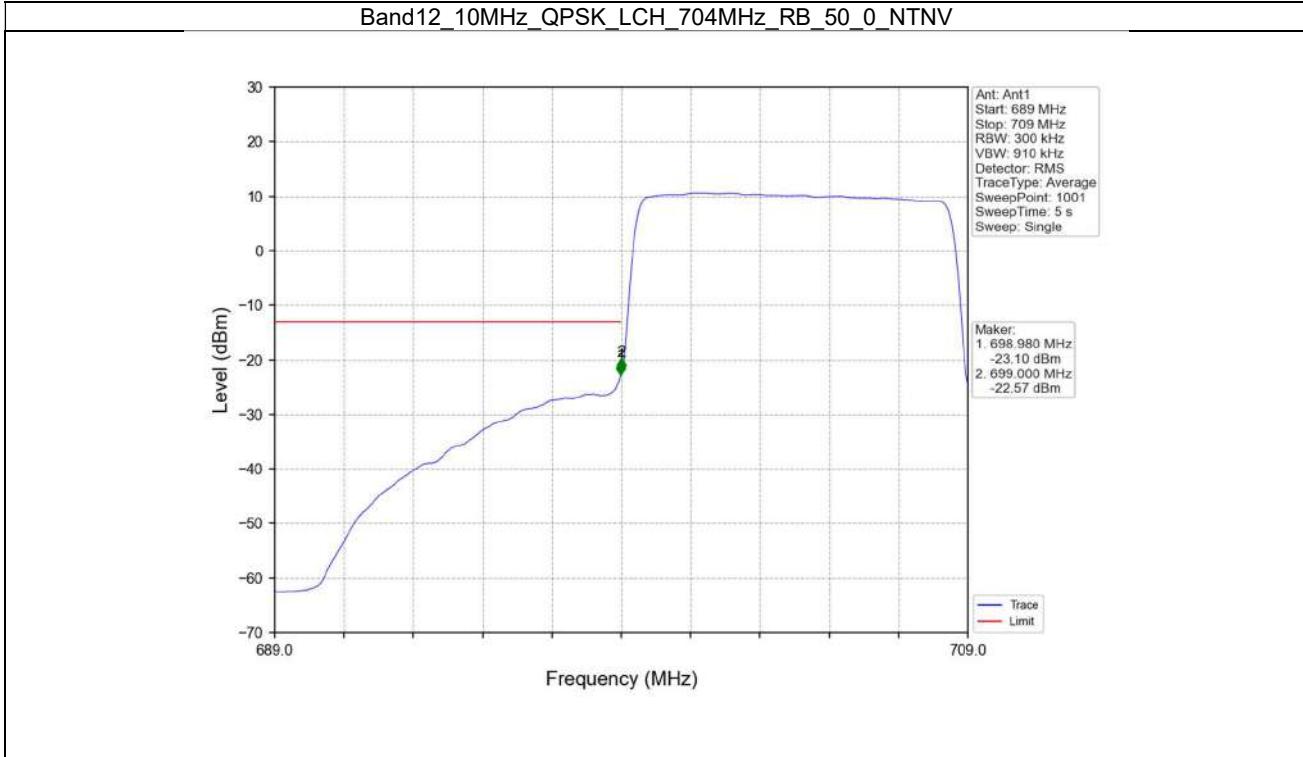
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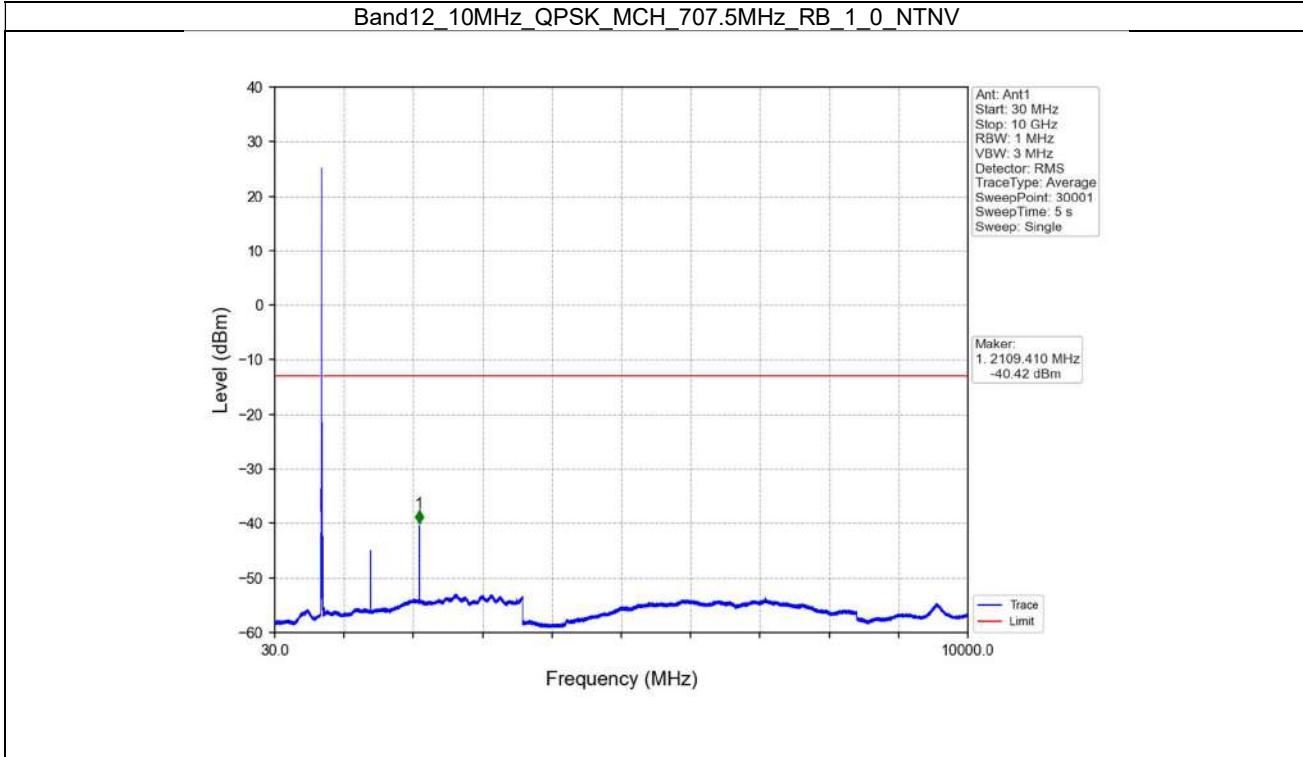
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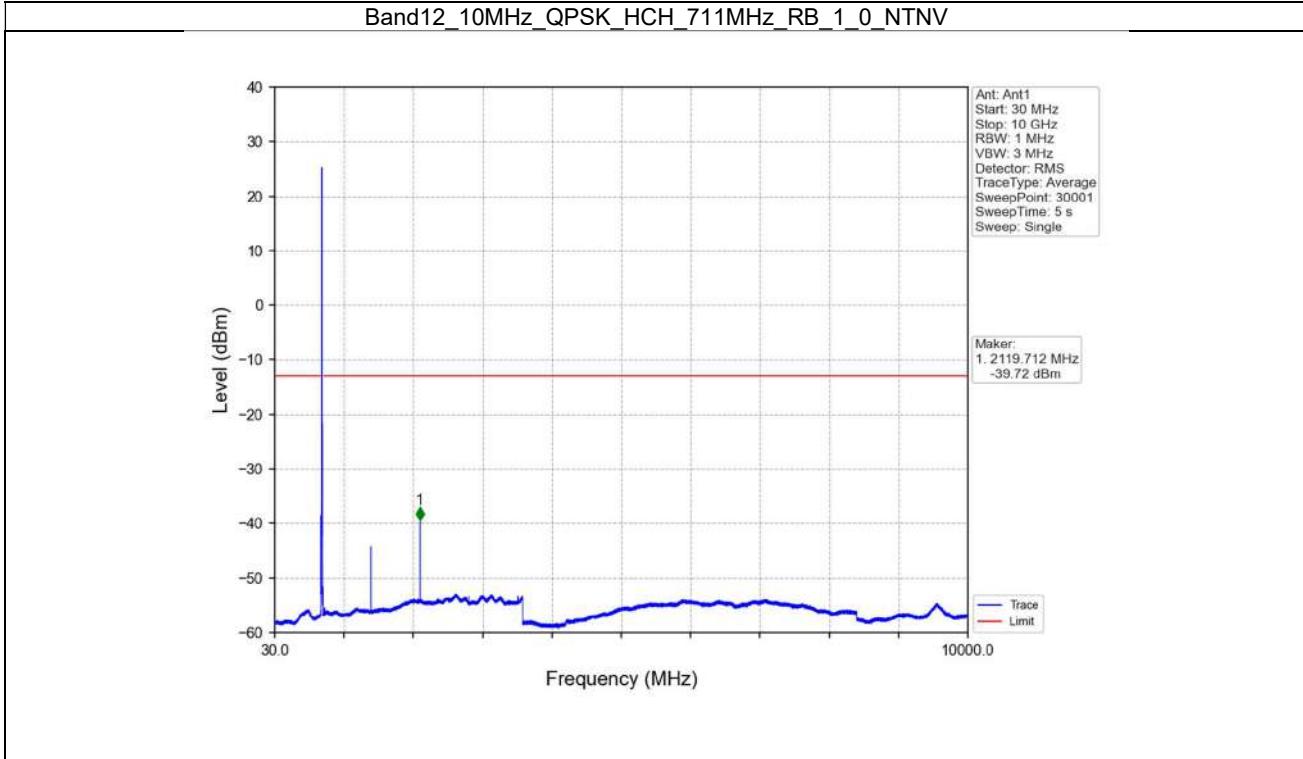
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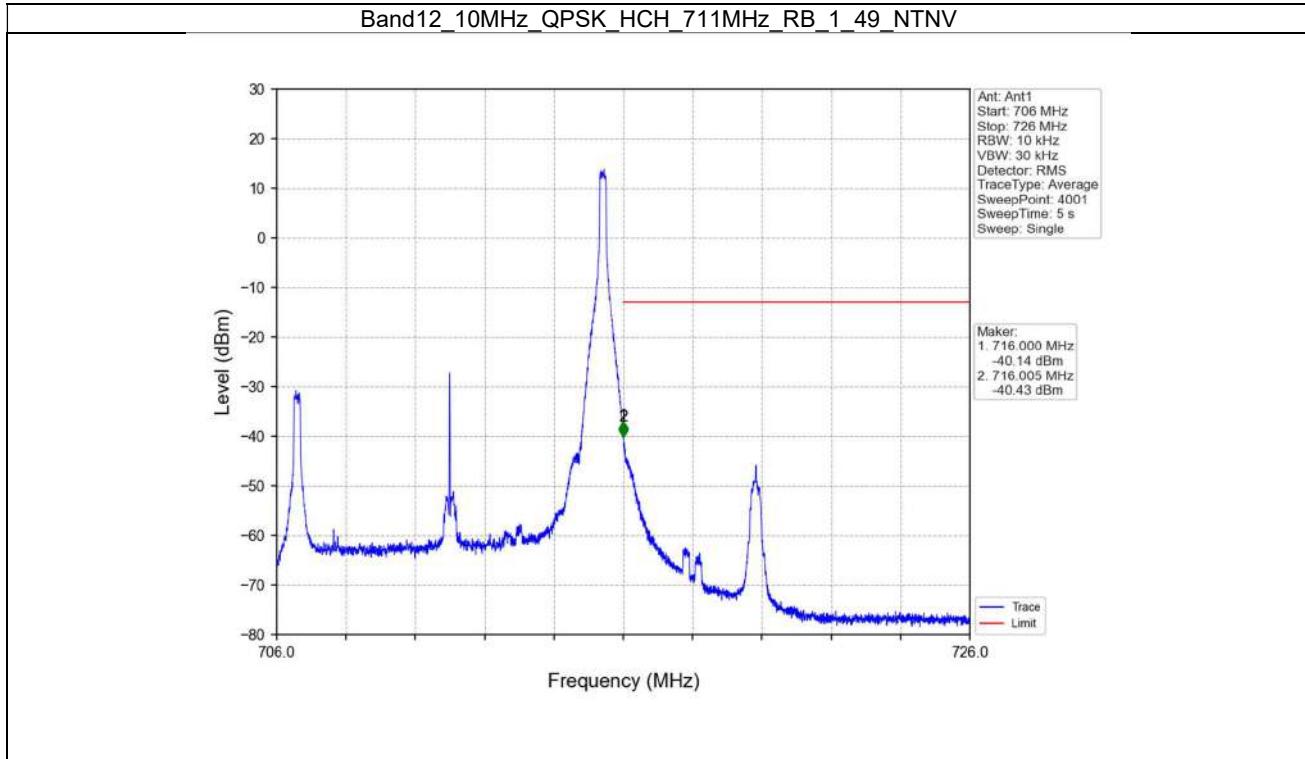
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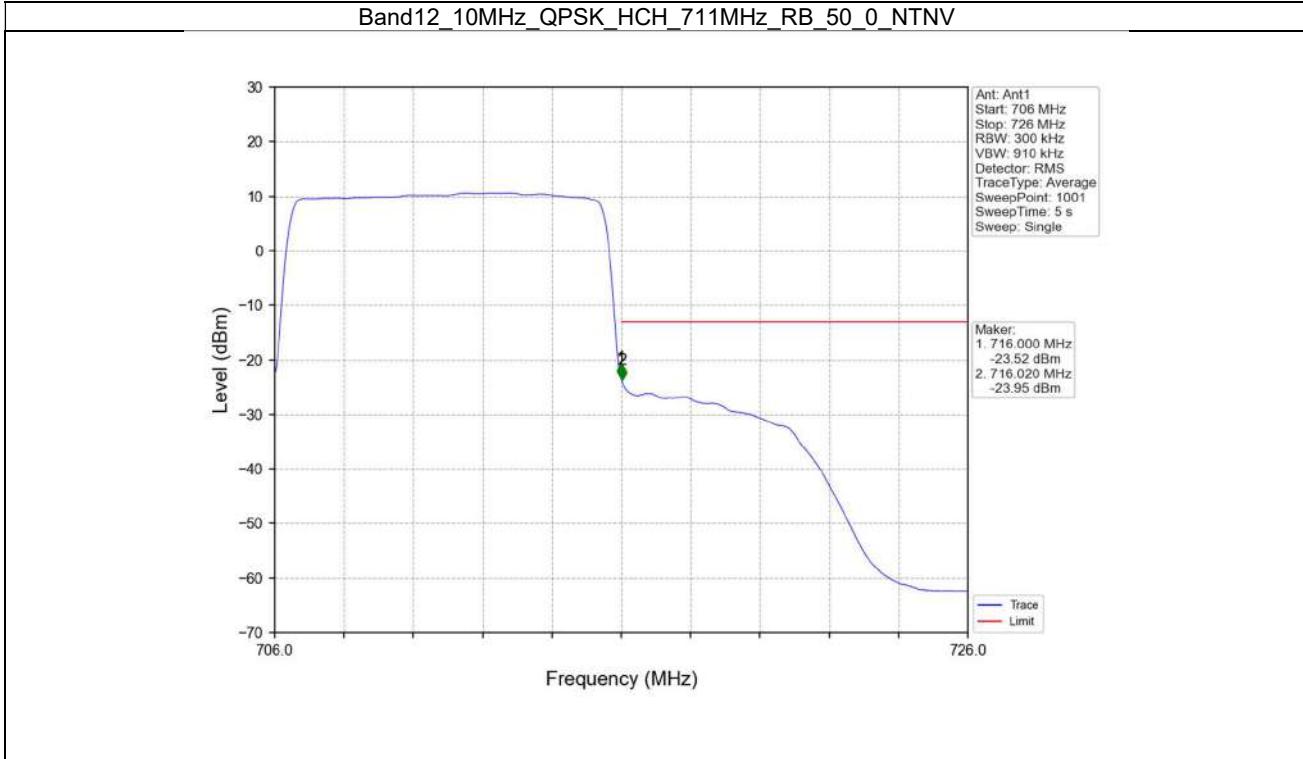
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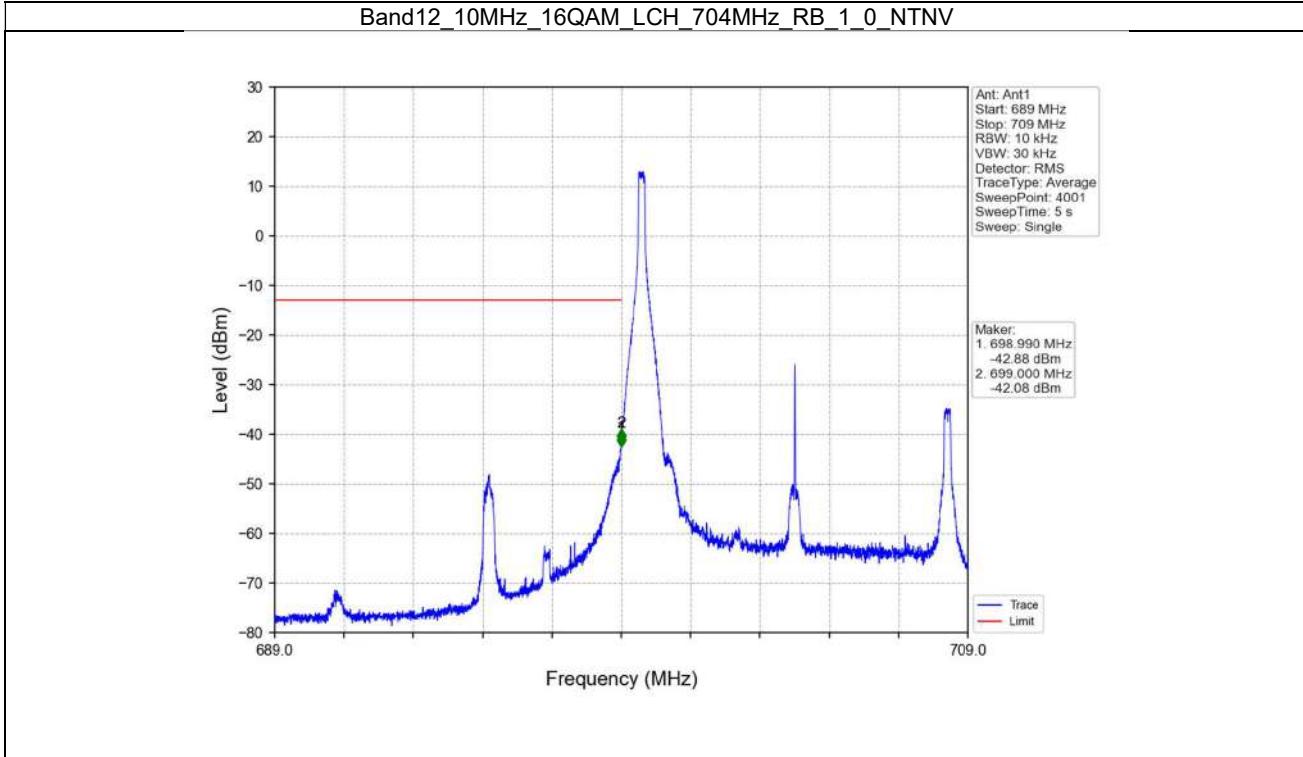
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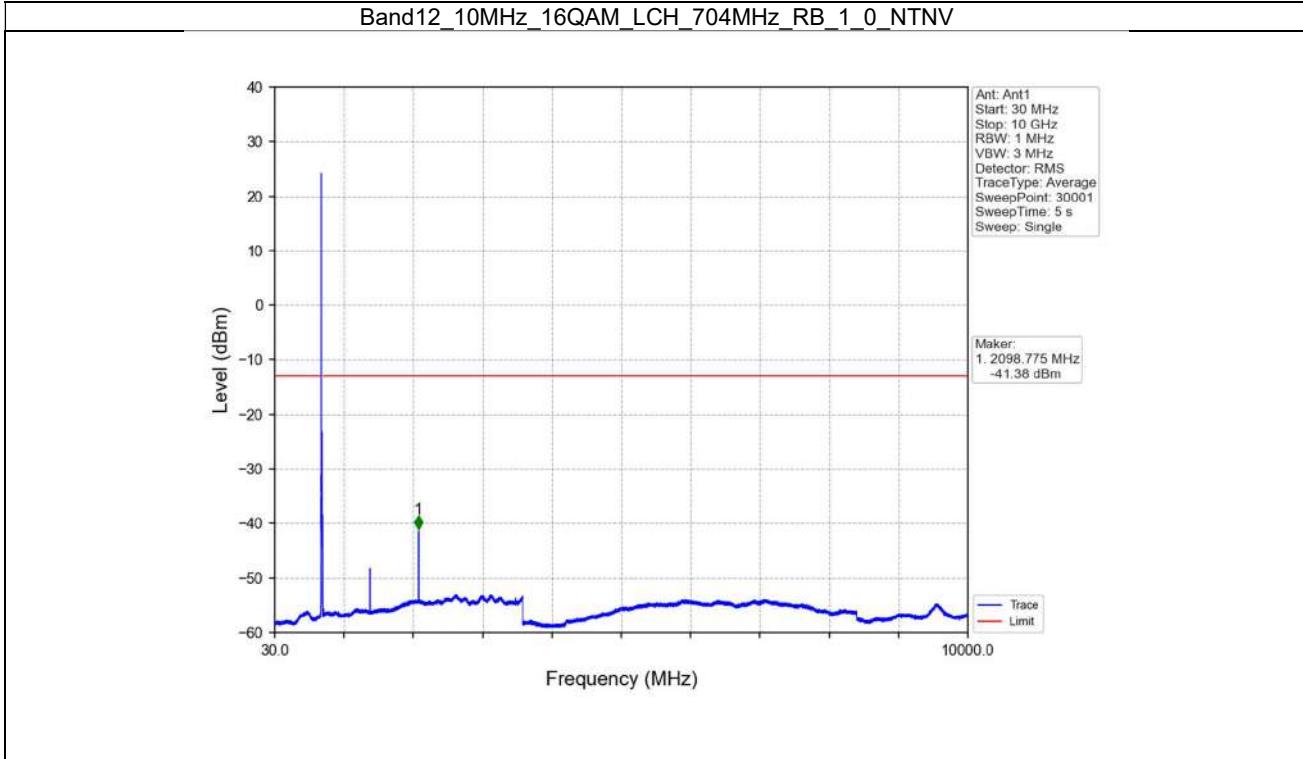
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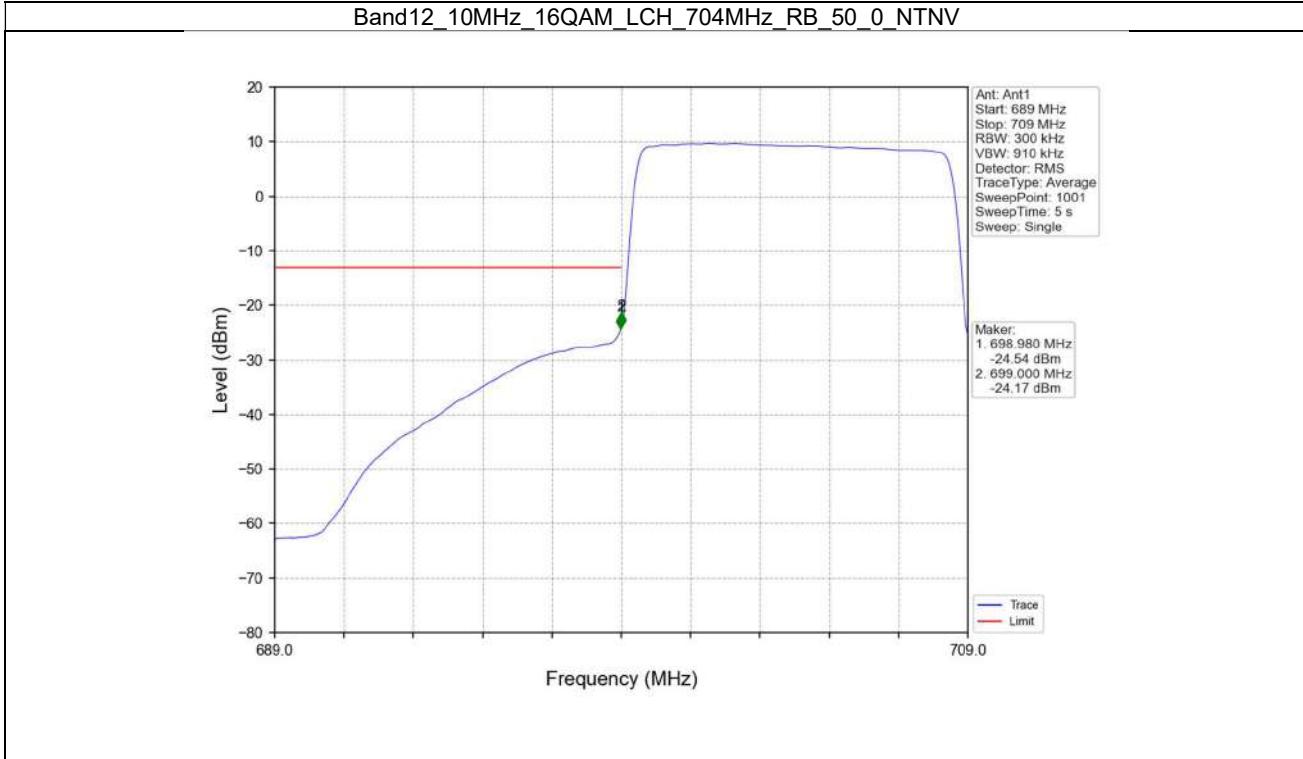


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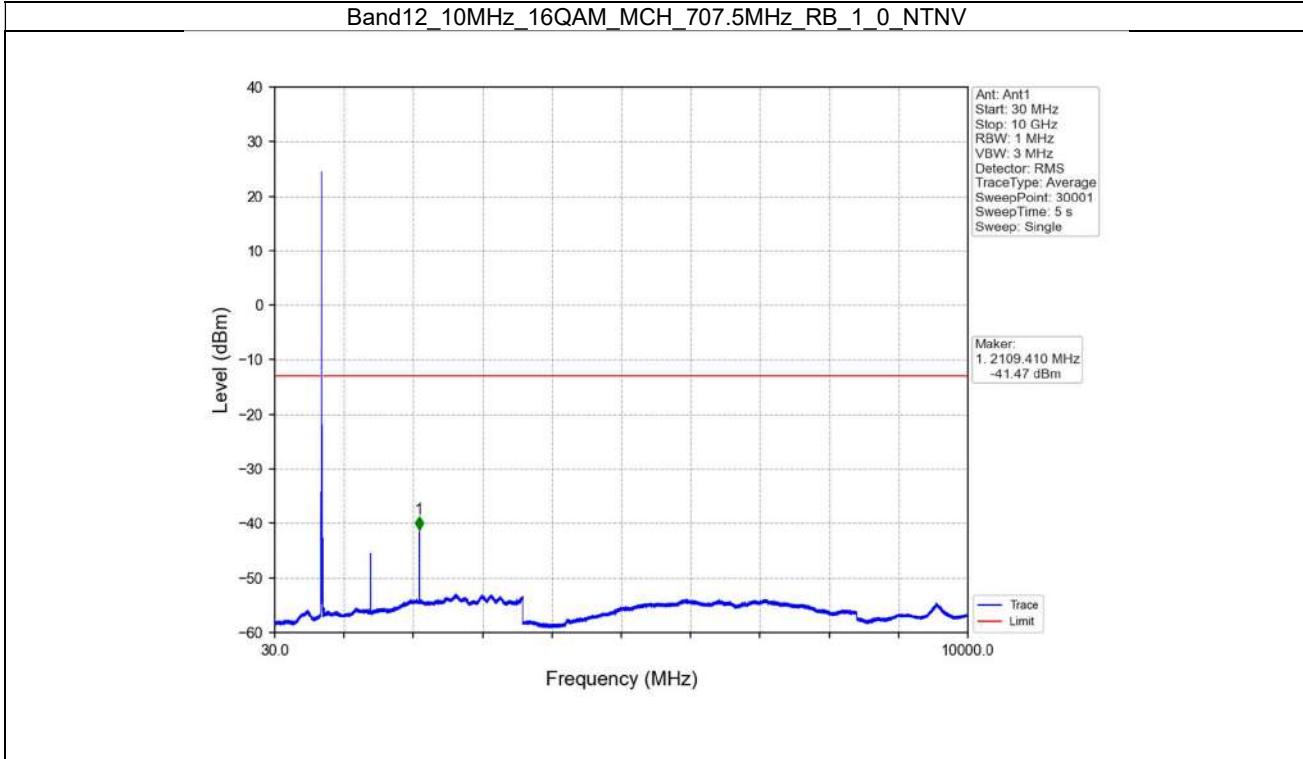


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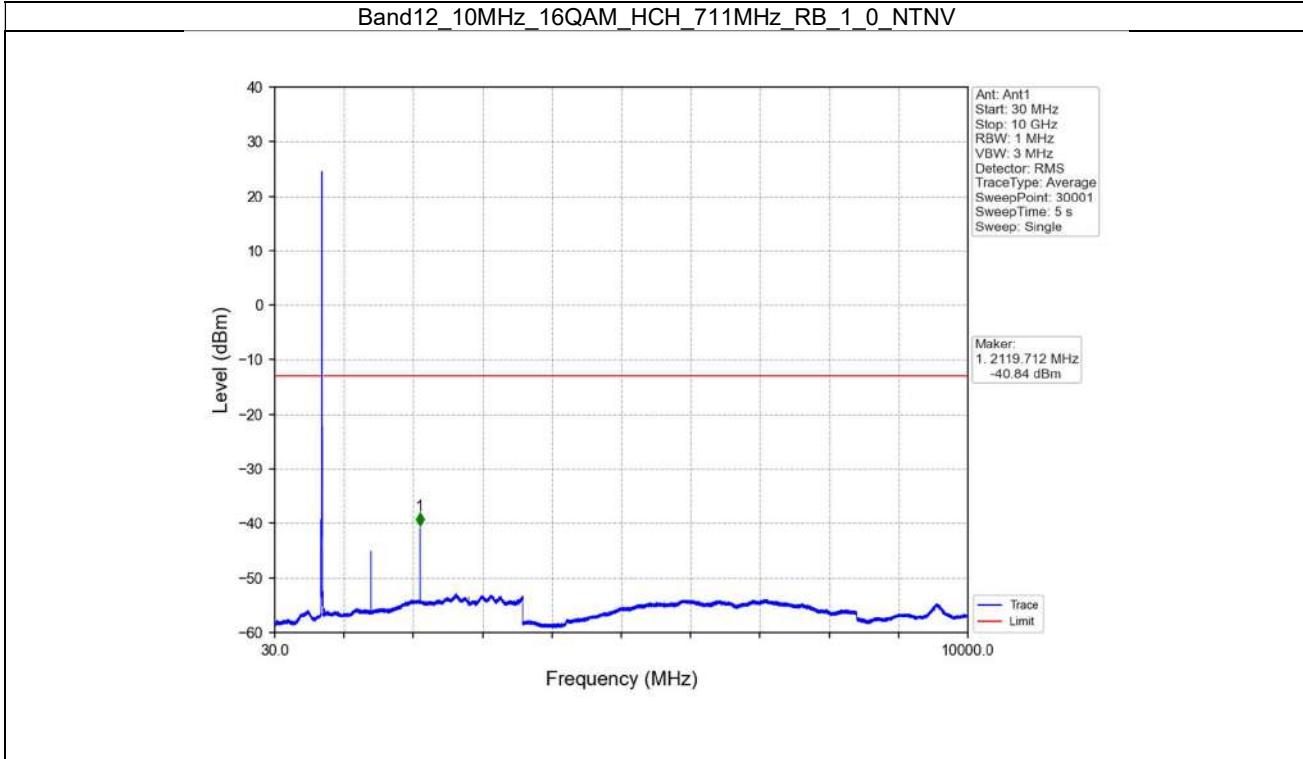
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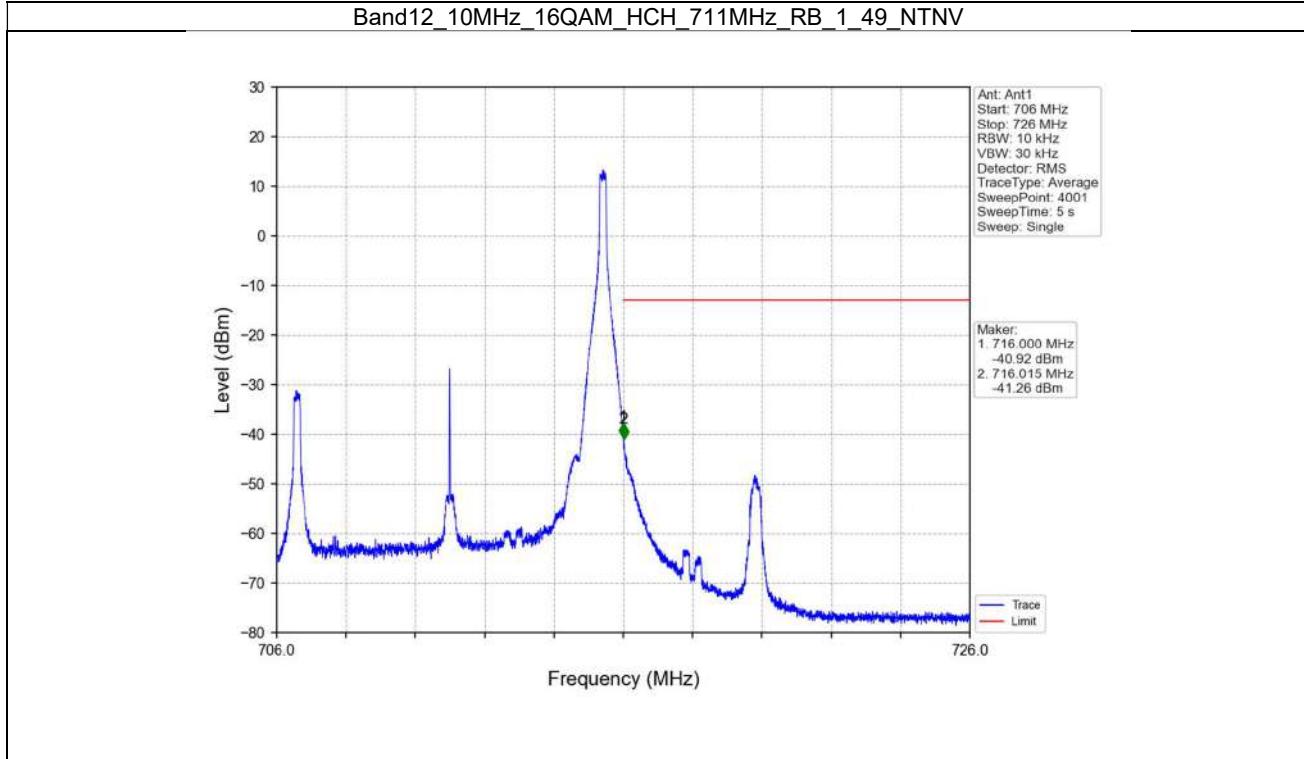


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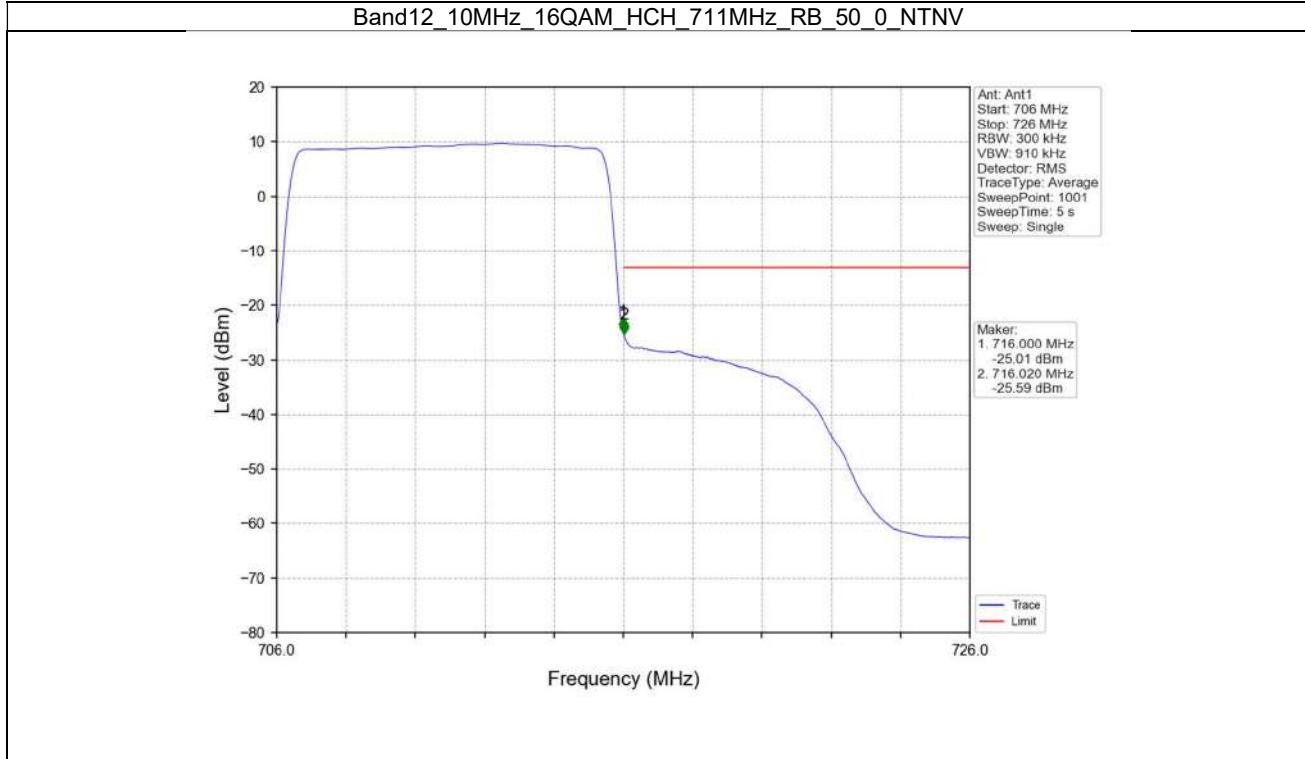
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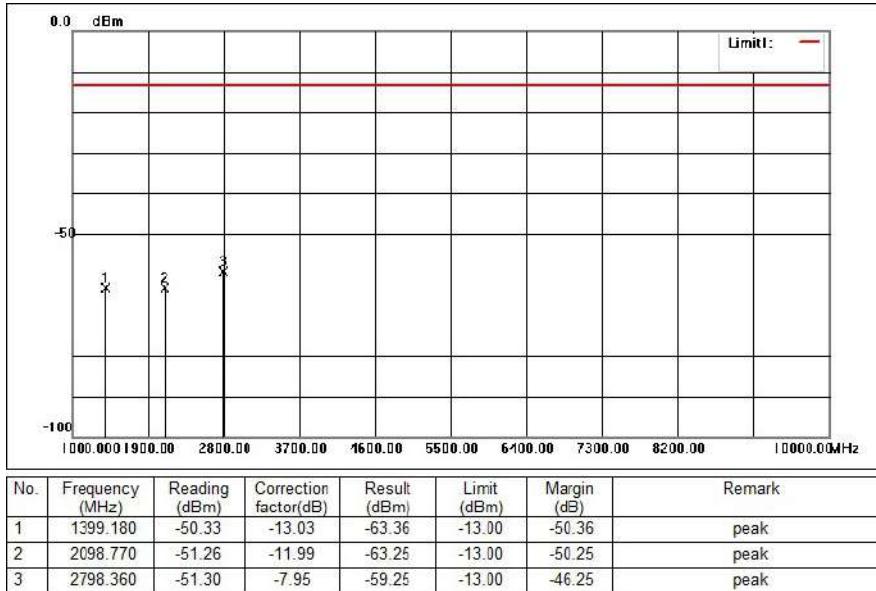
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7. Field Strength of Spurious Radiation

Up Antenna

LTE BAND 12-10MHz-Low channel

Polarization: H



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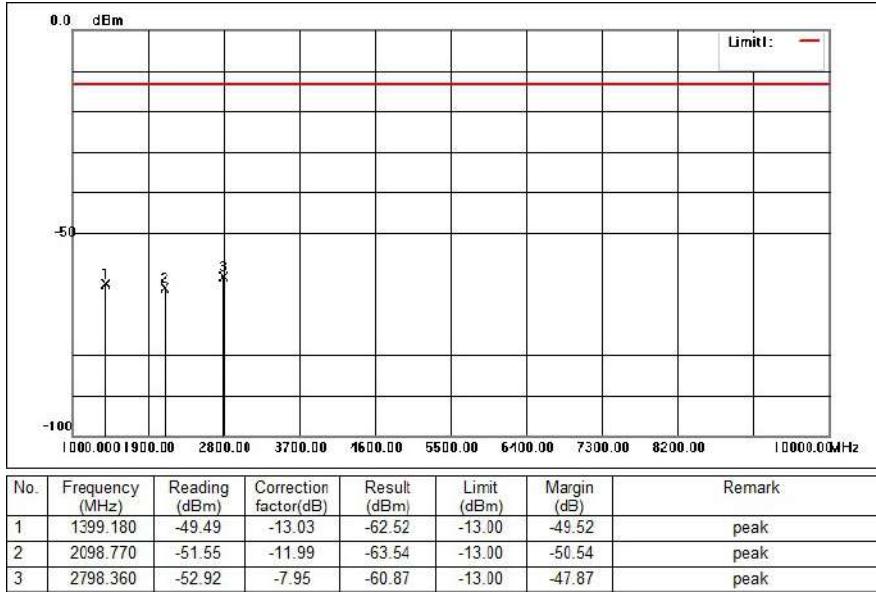
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Polarization: V



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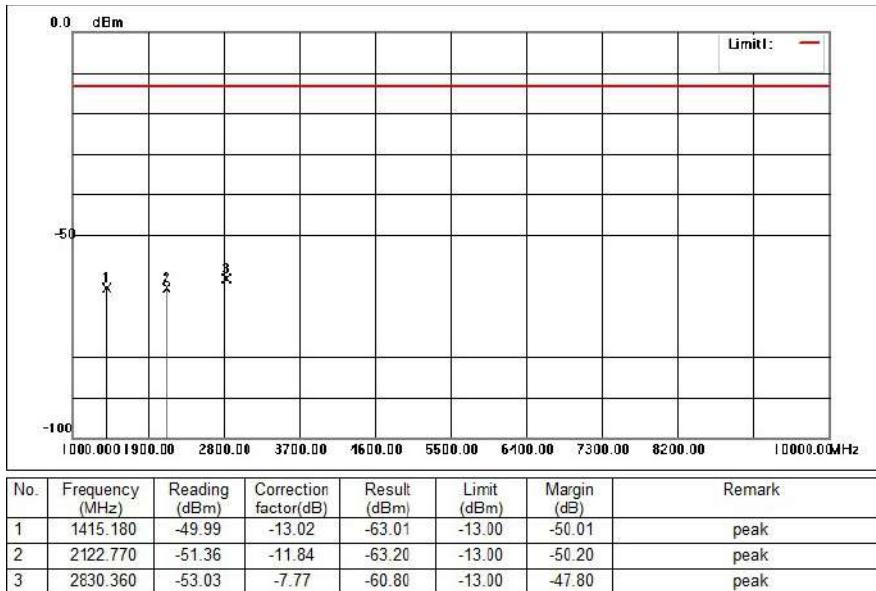


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LTE BAND 12-10MHz-Middle channel

Polarization: H



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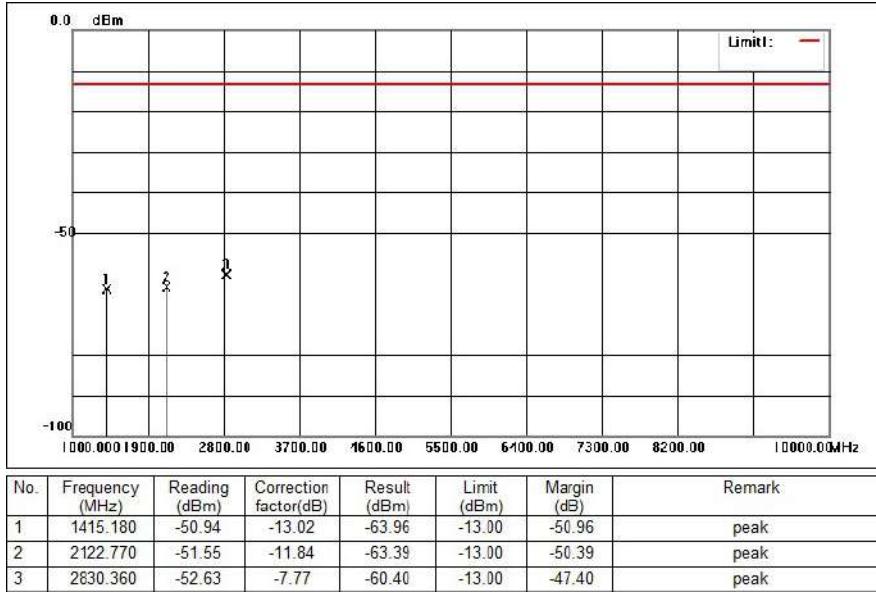
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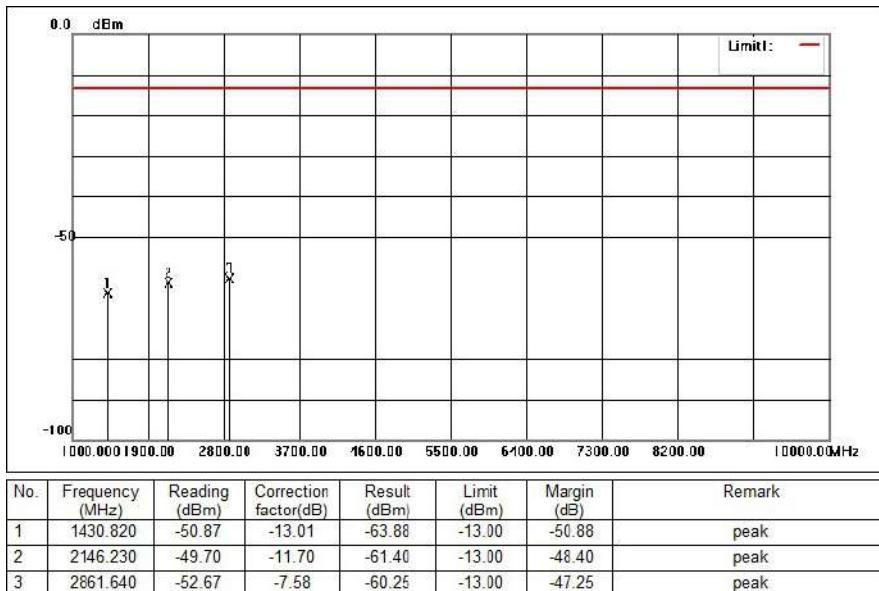
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LTE BAND 12-10MHz-High channel

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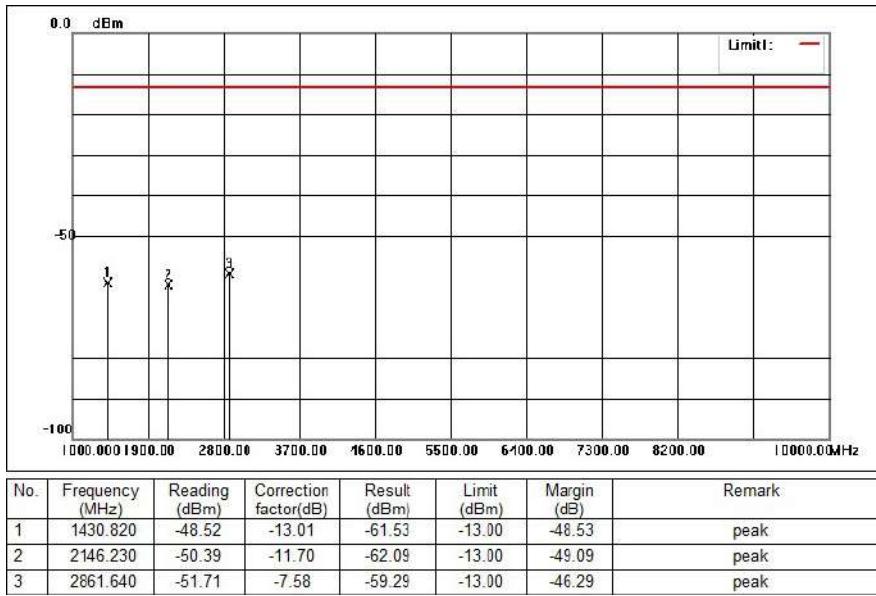
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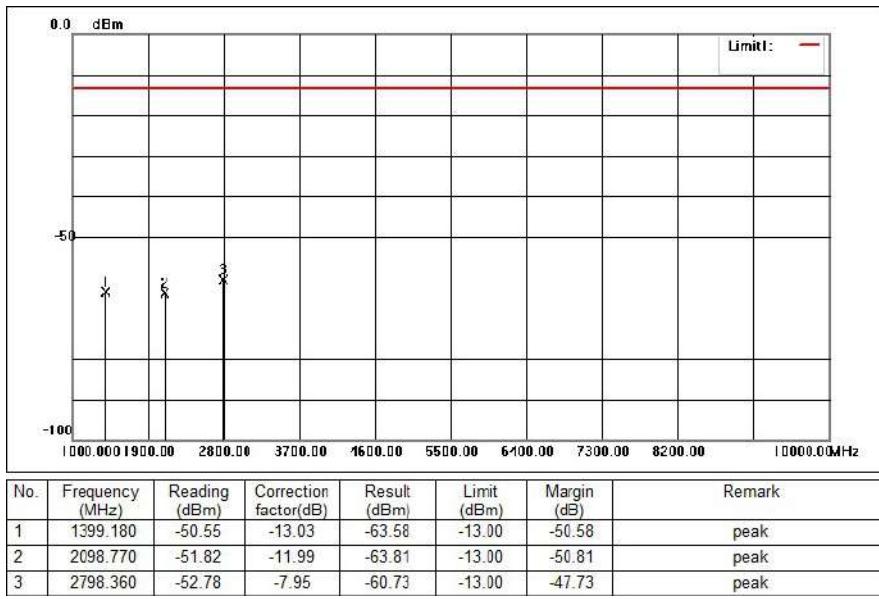
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Down Antenna

LTE BAND 12-10MHz-Low channel

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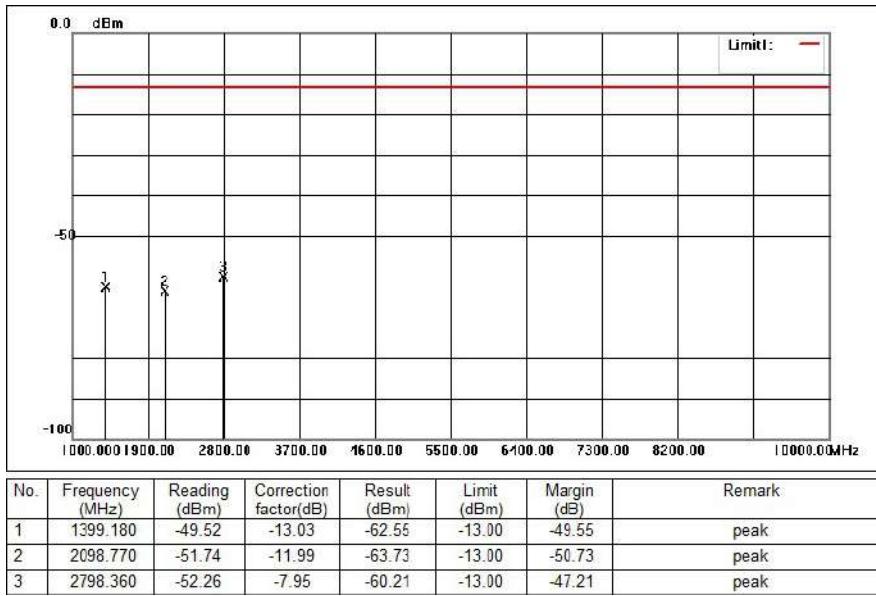
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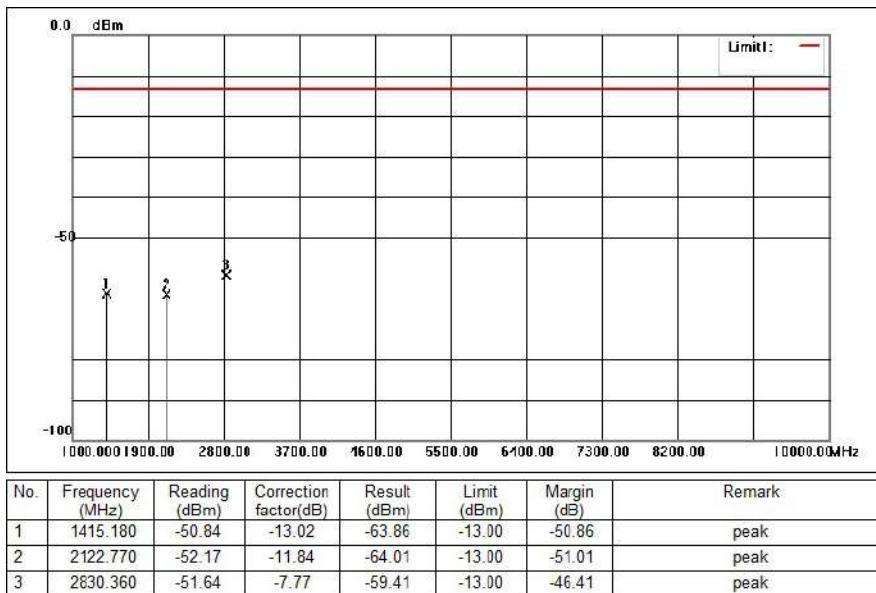


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LTE BAND 12-10MHz-Middle channel

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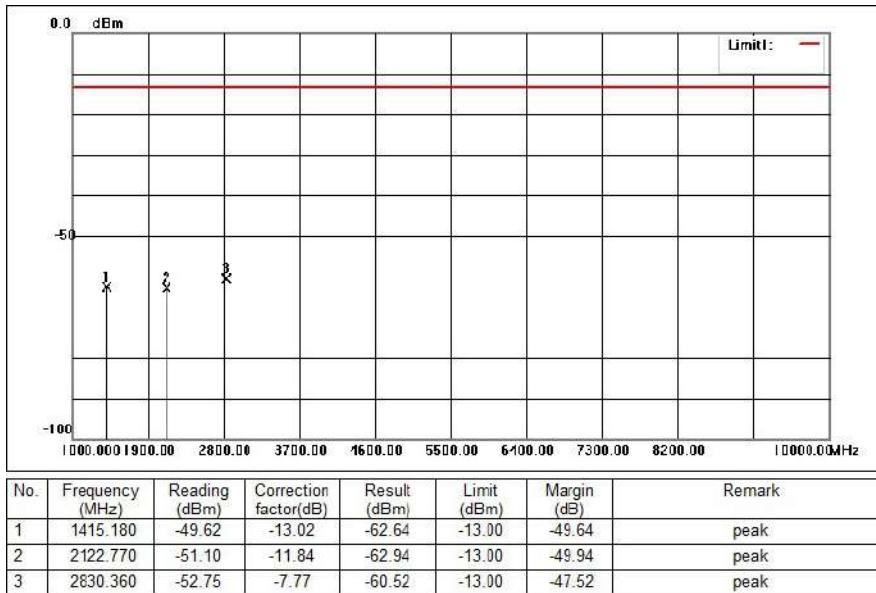


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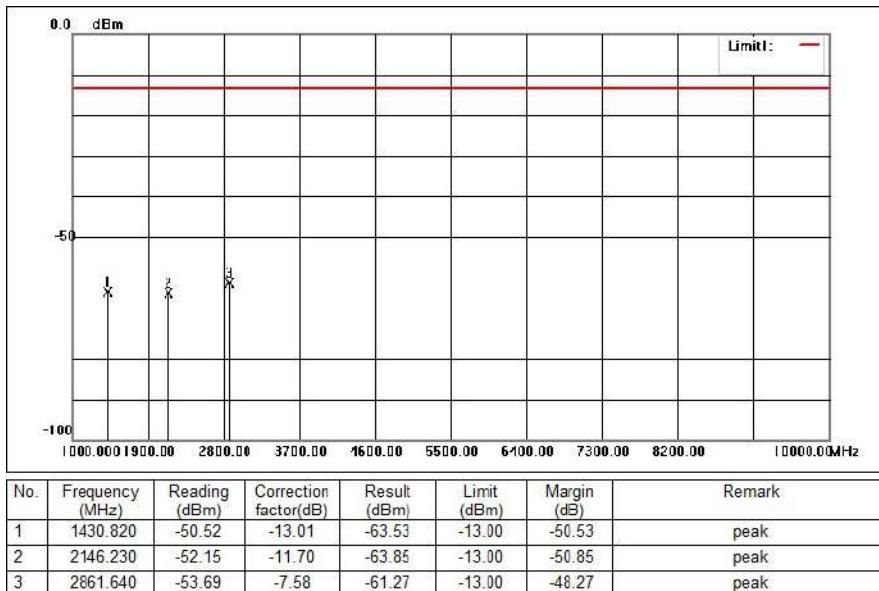


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LTE BAND 12-10MHz-High channel

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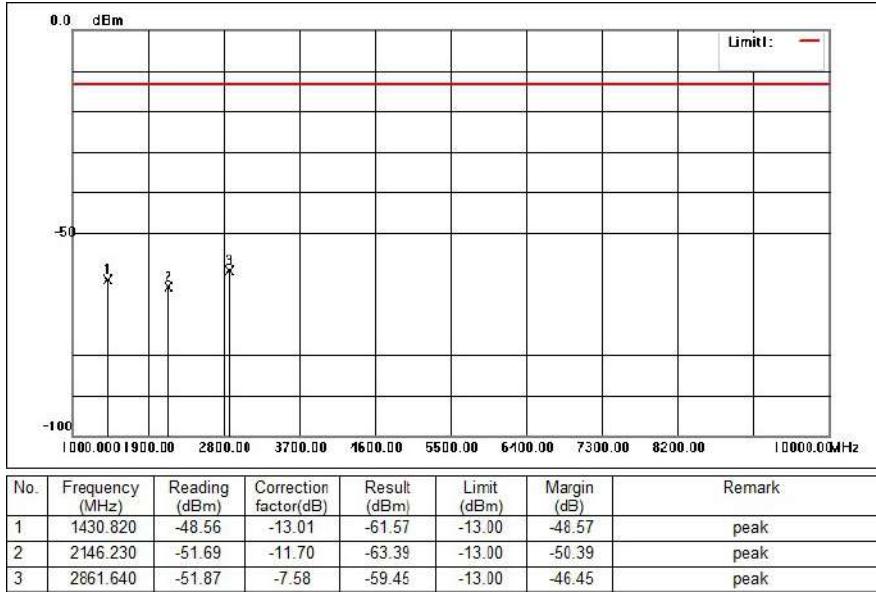
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Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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