

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.16	-3.80	17.21	<=34.77	Pass
			2	23.33	-3.80	17.38	<=34.77	Pass
			5	23.13	-3.80	17.18	<=34.77	Pass
		3	0	23.17	-3.80	17.22	<=34.77	Pass
			2	23.20	-3.80	17.25	<=34.77	Pass
			3	23.21	-3.80	17.26	<=34.77	Pass
		6	0	22.25	-3.80	16.30	<=34.77	Pass
	707.5	1	0	22.99	-3.80	17.04	<=34.77	Pass
			2	23.16	-3.80	17.21	<=34.77	Pass
			5	22.95	-3.80	17.00	<=34.77	Pass
		3	0	23.09	-3.80	17.14	<=34.77	Pass
			2	23.09	-3.80	17.14	<=34.77	Pass
			3	23.02	-3.80	17.07	<=34.77	Pass
		6	0	22.11	-3.80	16.16	<=34.77	Pass
	715.3	1	0	22.92	-3.80	16.97	<=34.77	Pass
			2	23.11	-3.80	17.16	<=34.77	Pass
			5	22.89	-3.80	16.94	<=34.77	Pass
		3	0	23.00	-3.80	17.05	<=34.77	Pass
			2	23.01	-3.80	17.06	<=34.77	Pass
			3	22.96	-3.80	17.01	<=34.77	Pass
		6	0	22.04	-3.80	16.09	<=34.77	Pass
16QAM	699.7	1	0	22.23	-3.80	16.28	<=34.77	Pass
			2	22.39	-3.80	16.44	<=34.77	Pass
			5	22.23	-3.80	16.28	<=34.77	Pass
		3	0	22.21	-3.80	16.26	<=34.77	Pass
			2	22.21	-3.80	16.26	<=34.77	Pass
			3	22.23	-3.80	16.28	<=34.77	Pass
		6	0	21.32	-3.80	15.37	<=34.77	Pass
	707.5	1	0	22.23	-3.80	16.28	<=34.77	Pass
			2	22.37	-3.80	16.42	<=34.77	Pass
			5	22.19	-3.80	16.24	<=34.77	Pass
		3	0	22.14	-3.80	16.19	<=34.77	Pass
			2	22.17	-3.80	16.22	<=34.77	Pass
			3	22.10	-3.80	16.15	<=34.77	Pass
		6	0	21.06	-3.80	15.11	<=34.77	Pass
	715.3	1	0	22.17	-3.80	16.22	<=34.77	Pass
			2	22.38	-3.80	16.43	<=34.77	Pass
			5	22.18	-3.80	16.23	<=34.77	Pass
		3	0	22.11	-3.80	16.16	<=34.77	Pass
			2	22.09	-3.80	16.14	<=34.77	Pass
			3	22.04	-3.80	16.09	<=34.77	Pass
		6	0	21.07	-3.80	15.12	<=34.77	Pass
64QAM	699.7	1	0	21.68	-3.80	15.73	<=34.77	Pass
			2	21.89	-3.80	15.94	<=34.77	Pass
			5	21.74	-3.80	15.79	<=34.77	Pass
		3	0	21.32	-3.80	15.37	<=34.77	Pass
			2	21.37	-3.80	15.42	<=34.77	Pass
			3	21.35	-3.80	15.40	<=34.77	Pass
		6	0	20.24	-3.80	14.29	<=34.77	Pass

	707.5	1	0	21.02	-3.80	15.07	<=34.77	Pass
			2	21.15	-3.80	15.20	<=34.77	Pass
			5	20.98	-3.80	15.03	<=34.77	Pass
		3	0	21.13	-3.80	15.18	<=34.77	Pass
			2	21.15	-3.80	15.20	<=34.77	Pass
			3	21.11	-3.80	15.16	<=34.77	Pass
	715.3	6	0	20.22	-3.80	14.27	<=34.77	Pass
			0	21.46	-3.80	15.51	<=34.77	Pass
			2	21.67	-3.80	15.72	<=34.77	Pass
		1	5	21.48	-3.80	15.53	<=34.77	Pass
			0	21.10	-3.80	15.15	<=34.77	Pass
			2	21.15	-3.80	15.20	<=34.77	Pass
			3	21.14	-3.80	15.19	<=34.77	Pass
		3	0	20.09	-3.80	14.14	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.23	-3.80	17.28	<=34.77	Pass
			7	23.19	-3.80	17.24	<=34.77	Pass
			14	23.16	-3.80	17.21	<=34.77	Pass
		8	0	22.28	-3.80	16.33	<=34.77	Pass
			4	22.30	-3.80	16.35	<=34.77	Pass
			7	22.26	-3.80	16.31	<=34.77	Pass
		15	0	22.23	-3.80	16.28	<=34.77	Pass
	707.5	1	0	23.11	-3.80	17.16	<=34.77	Pass
			7	23.11	-3.80	17.16	<=34.77	Pass
			14	23.06	-3.80	17.11	<=34.77	Pass
		8	0	22.10	-3.80	16.15	<=34.77	Pass
			4	22.13	-3.80	16.18	<=34.77	Pass
			7	22.08	-3.80	16.13	<=34.77	Pass
		15	0	22.04	-3.80	16.09	<=34.77	Pass
	714.5	1	0	22.97	-3.80	17.02	<=34.77	Pass
			7	22.97	-3.80	17.02	<=34.77	Pass
			14	22.97	-3.80	17.02	<=34.77	Pass
		8	0	21.98	-3.80	16.03	<=34.77	Pass
			4	22.05	-3.80	16.10	<=34.77	Pass
			7	21.99	-3.80	16.04	<=34.77	Pass
		15	0	21.92	-3.80	15.97	<=34.77	Pass
16QAM	700.5	1	0	22.40	-3.80	16.45	<=34.77	Pass
			7	22.44	-3.80	16.49	<=34.77	Pass
			14	22.39	-3.80	16.44	<=34.77	Pass
		8	0	21.40	-3.80	15.45	<=34.77	Pass
			4	21.43	-3.80	15.48	<=34.77	Pass
			7	21.39	-3.80	15.44	<=34.77	Pass
		15	0	21.25	-3.80	15.30	<=34.77	Pass
	707.5	1	0	22.21	-3.80	16.26	<=34.77	Pass
			7	22.17	-3.80	16.22	<=34.77	Pass
			14	22.07	-3.80	16.12	<=34.77	Pass
		8	0	21.23	-3.80	15.28	<=34.77	Pass
			4	21.25	-3.80	15.30	<=34.77	Pass
			7	21.22	-3.80	15.27	<=34.77	Pass
		15	0	21.07	-3.80	15.12	<=34.77	Pass
	714.5	1	0	22.18	-3.80	16.23	<=34.77	Pass

			7	22.17	-3.80	16.22	<=34.77	Pass
			14	22.14	-3.80	16.19	<=34.77	Pass
		8	0	21.05	-3.80	15.10	<=34.77	Pass
			4	21.07	-3.80	15.12	<=34.77	Pass
			7	21.03	-3.80	15.08	<=34.77	Pass
		15	0	20.99	-3.80	15.04	<=34.77	Pass
64QAM	700.5	1	0	21.49	-3.80	15.54	<=34.77	Pass
			7	21.50	-3.80	15.55	<=34.77	Pass
			14	21.41	-3.80	15.46	<=34.77	Pass
		8	0	20.33	-3.80	14.38	<=34.77	Pass
			4	20.37	-3.80	14.42	<=34.77	Pass
			7	20.31	-3.80	14.36	<=34.77	Pass
	15	0	20.26	-3.80	14.31	<=34.77	Pass	
	707.5	1	0	21.74	-3.80	15.79	<=34.77	Pass
			7	21.72	-3.80	15.77	<=34.77	Pass
			14	21.60	-3.80	15.65	<=34.77	Pass
		8	0	20.23	-3.80	14.28	<=34.77	Pass
			4	20.25	-3.80	14.30	<=34.77	Pass
			7	20.19	-3.80	14.24	<=34.77	Pass
	15	0	19.98	-3.80	14.03	<=34.77	Pass	
	714.5	1	0	20.99	-3.80	15.04	<=34.77	Pass
			7	21.03	-3.80	15.08	<=34.77	Pass
			14	21.02	-3.80	15.07	<=34.77	Pass
		8	0	20.12	-3.80	14.17	<=34.77	Pass
			4	20.15	-3.80	14.20	<=34.77	Pass
			7	20.09	-3.80	14.14	<=34.77	Pass
	15	0	19.94	-3.80	13.99	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	701.5	1	0	23.15	-3.80	17.20	<=34.77	Pass	
			13	23.25	-3.80	17.30	<=34.77	Pass	
			24	23.08	-3.80	17.13	<=34.77	Pass	
		12	0	22.28	-3.80	16.33	<=34.77	Pass	
			6	22.26	-3.80	16.31	<=34.77	Pass	
			13	22.21	-3.80	16.26	<=34.77	Pass	
		25	0	22.27	-3.80	16.32	<=34.77	Pass	
		707.5	1	0	23.07	-3.80	17.12	<=34.77	Pass
				13	23.11	-3.80	17.16	<=34.77	Pass
	24			22.94	-3.80	16.99	<=34.77	Pass	
	12		0	22.17	-3.80	16.22	<=34.77	Pass	
			6	22.12	-3.80	16.17	<=34.77	Pass	
			13	22.07	-3.80	16.12	<=34.77	Pass	
	25	0	22.12	-3.80	16.17	<=34.77	Pass		
	713.5	1	0	22.96	-3.80	17.01	<=34.77	Pass	
			13	23.05	-3.80	17.10	<=34.77	Pass	
			24	22.97	-3.80	17.02	<=34.77	Pass	
		12	0	21.97	-3.80	16.02	<=34.77	Pass	
			6	22.01	-3.80	16.06	<=34.77	Pass	
			13	21.93	-3.80	15.98	<=34.77	Pass	
		25	0	22.00	-3.80	16.05	<=34.77	Pass	
16QAM		701.5	1	0	22.37	-3.80	16.42	<=34.77	Pass
				13	22.49	-3.80	16.54	<=34.77	Pass

		12		24	22.31	-3.80	16.36	<=34.77	Pass
			0	21.29	-3.80	15.34	<=34.77	Pass	
				6	21.28	-3.80	15.33	<=34.77	Pass
				13	21.23	-3.80	15.28	<=34.77	Pass
		25	0	21.25	-3.80	15.30	<=34.77	Pass	
	707.5	1	0	22.25	-3.80	16.30	<=34.77	Pass	
			13	22.30	-3.80	16.35	<=34.77	Pass	
			24	22.16	-3.80	16.21	<=34.77	Pass	
		12	0	21.08	-3.80	15.13	<=34.77	Pass	
			6	21.08	-3.80	15.13	<=34.77	Pass	
			13	21.01	-3.80	15.06	<=34.77	Pass	
		25	0	21.08	-3.80	15.13	<=34.77	Pass	
		713.5	1	0	22.16	-3.80	16.21	<=34.77	Pass
	13			22.28	-3.80	16.33	<=34.77	Pass	
	24			22.17	-3.80	16.22	<=34.77	Pass	
	12		0	20.92	-3.80	14.97	<=34.77	Pass	
			6	20.99	-3.80	15.04	<=34.77	Pass	
			13	20.91	-3.80	14.96	<=34.77	Pass	
	25		0	21.05	-3.80	15.10	<=34.77	Pass	
	64QAM		701.5	1	0	21.53	-3.80	15.58	<=34.77
13		21.60			-3.80	15.65	<=34.77	Pass	
24		21.45			-3.80	15.50	<=34.77	Pass	
12		0		20.30	-3.80	14.35	<=34.77	Pass	
		6		20.26	-3.80	14.31	<=34.77	Pass	
		13		20.25	-3.80	14.30	<=34.77	Pass	
25		0		20.23	-3.80	14.28	<=34.77	Pass	
707.5		1	0	21.55	-3.80	15.60	<=34.77	Pass	
			13	21.61	-3.80	15.66	<=34.77	Pass	
			24	21.45	-3.80	15.50	<=34.77	Pass	
		12	0	20.16	-3.80	14.21	<=34.77	Pass	
			6	20.16	-3.80	14.21	<=34.77	Pass	
			13	20.11	-3.80	14.16	<=34.77	Pass	
25		0	20.14	-3.80	14.19	<=34.77	Pass		
713.5		1	0	21.01	-3.80	15.06	<=34.77	Pass	
			13	21.06	-3.80	15.11	<=34.77	Pass	
			24	20.94	-3.80	14.99	<=34.77	Pass	
		12	0	19.94	-3.80	13.99	<=34.77	Pass	
			6	19.99	-3.80	14.04	<=34.77	Pass	
			13	19.92	-3.80	13.97	<=34.77	Pass	
	25	0	20.00	-3.80	14.05	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.25	-3.80	17.30	<=34.77	Pass
			25	23.28	-3.80	17.33	<=34.77	Pass
			49	23.03	-3.80	17.08	<=34.77	Pass
		25	0	22.21	-3.80	16.26	<=34.77	Pass
			13	22.21	-3.80	16.26	<=34.77	Pass
			25	22.14	-3.80	16.19	<=34.77	Pass
	707.5	50	0	22.18	-3.80	16.23	<=34.77	Pass
			0	23.22	-3.80	17.27	<=34.77	Pass
			25	23.25	-3.80	17.30	<=34.77	Pass
		1	49	23.00	-3.80	17.05	<=34.77	Pass
			0	23.00	-3.80	17.05	<=34.77	Pass
			0	23.00	-3.80	17.05	<=34.77	Pass

		25	0	22.28	-3.80	16.33	<=34.77	Pass
			13	22.15	-3.80	16.20	<=34.77	Pass
			25	22.10	-3.80	16.15	<=34.77	Pass
		50	0	22.15	-3.80	16.20	<=34.77	Pass
	711	1	0	23.10	-3.80	17.15	<=34.77	Pass
			25	23.09	-3.80	17.14	<=34.77	Pass
			49	23.02	-3.80	17.07	<=34.77	Pass
		25	0	22.14	-3.80	16.19	<=34.77	Pass
			13	22.05	-3.80	16.10	<=34.77	Pass
			25	21.98	-3.80	16.03	<=34.77	Pass
		50	0	22.02	-3.80	16.07	<=34.77	Pass
16QAM		704	1	0	22.46	-3.80	16.51	<=34.77
	25			22.49	-3.80	16.54	<=34.77	Pass
	49			22.27	-3.80	16.32	<=34.77	Pass
	25		0	21.25	-3.80	15.30	<=34.77	Pass
			13	21.25	-3.80	15.30	<=34.77	Pass
			25	21.17	-3.80	15.22	<=34.77	Pass
	50		0	21.15	-3.80	15.20	<=34.77	Pass
	707.5	1	0	22.29	-3.80	16.34	<=34.77	Pass
			25	22.29	-3.80	16.34	<=34.77	Pass
			49	22.06	-3.80	16.11	<=34.77	Pass
		25	0	21.28	-3.80	15.33	<=34.77	Pass
			13	21.17	-3.80	15.22	<=34.77	Pass
			25	21.11	-3.80	15.16	<=34.77	Pass
		50	0	21.15	-3.80	15.20	<=34.77	Pass
	711	1	0	22.32	-3.80	16.37	<=34.77	Pass
			25	22.36	-3.80	16.41	<=34.77	Pass
			49	22.18	-3.80	16.23	<=34.77	Pass
		25	0	21.13	-3.80	15.18	<=34.77	Pass
			13	21.09	-3.80	15.14	<=34.77	Pass
			25	21.05	-3.80	15.10	<=34.77	Pass
		50	0	21.01	-3.80	15.06	<=34.77	Pass
64QAM		704	1	0	21.45	-3.80	15.50	<=34.77
	25			21.54	-3.80	15.59	<=34.77	Pass
	49			21.27	-3.80	15.32	<=34.77	Pass
	25		0	20.18	-3.80	14.23	<=34.77	Pass
			13	20.16	-3.80	14.21	<=34.77	Pass
			25	20.08	-3.80	14.13	<=34.77	Pass
	50		0	20.13	-3.80	14.18	<=34.77	Pass
	707.5	1	0	21.80	-3.80	15.85	<=34.77	Pass
			25	21.84	-3.80	15.89	<=34.77	Pass
			49	21.64	-3.80	15.69	<=34.77	Pass
		25	0	20.33	-3.80	14.38	<=34.77	Pass
			13	20.18	-3.80	14.23	<=34.77	Pass
			25	20.15	-3.80	14.20	<=34.77	Pass
		50	0	20.18	-3.80	14.23	<=34.77	Pass
	711	1	0	21.14	-3.80	15.19	<=34.77	Pass
			25	21.15	-3.80	15.20	<=34.77	Pass
			49	21.02	-3.80	15.07	<=34.77	Pass
		25	0	20.09	-3.80	14.14	<=34.77	Pass
			13	20.05	-3.80	14.10	<=34.77	Pass
			25	20.02	-3.80	14.07	<=34.77	Pass
		50	0	20.00	-3.80	14.05	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	LV	-7.553	-0.0107	-2.5 to 2.5	Pass
					NV	-7.195	-0.0102	-2.5 to 2.5	Pass
					HV	-6.123	-0.0087	-2.5 to 2.5	Pass
				-30	NV	-7.095	-0.0100	-2.5 to 2.5	Pass
				-20	NV	-5.865	-0.0083	-2.5 to 2.5	Pass
				-10	NV	-6.881	-0.0097	-2.5 to 2.5	Pass
				0	NV	-4.520	-0.0064	-2.5 to 2.5	Pass
				10	NV	-7.768	-0.0110	-2.5 to 2.5	Pass
				30	NV	-11.702	-0.0165	-2.5 to 2.5	Pass
				40	NV	-5.221	-0.0074	-2.5 to 2.5	Pass
				50	NV	-5.021	-0.0071	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

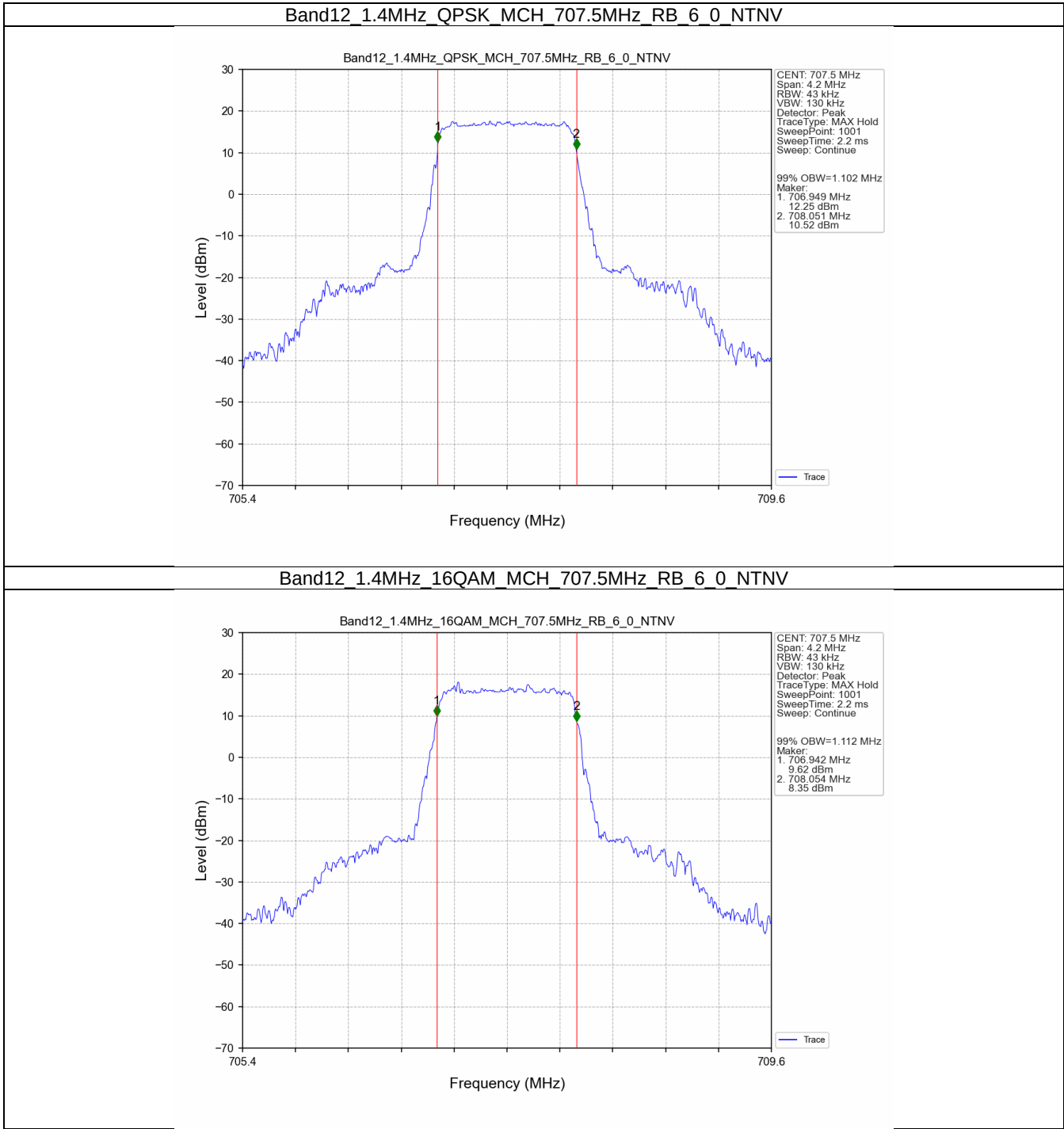
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.102	/	Pass
	16QAM	707.5	6	0	1.112	/	Pass
	64QAM	707.5	6	0	1.102	/	Pass
3	QPSK	707.5	15	0	2.727	/	Pass
	16QAM	707.5	15	0	2.719	/	Pass
	64QAM	707.5	15	0	2.723	/	Pass
5	QPSK	707.5	25	0	4.596	/	Pass
	16QAM	707.5	25	0	4.557	/	Pass
	64QAM	707.5	25	0	4.562	/	Pass
10	QPSK	707.5	50	0	9.078	/	Pass
	16QAM	707.5	50	0	9.082	/	Pass
	64QAM	707.5	50	0	9.089	/	Pass

3.1.2 Band12_XDB

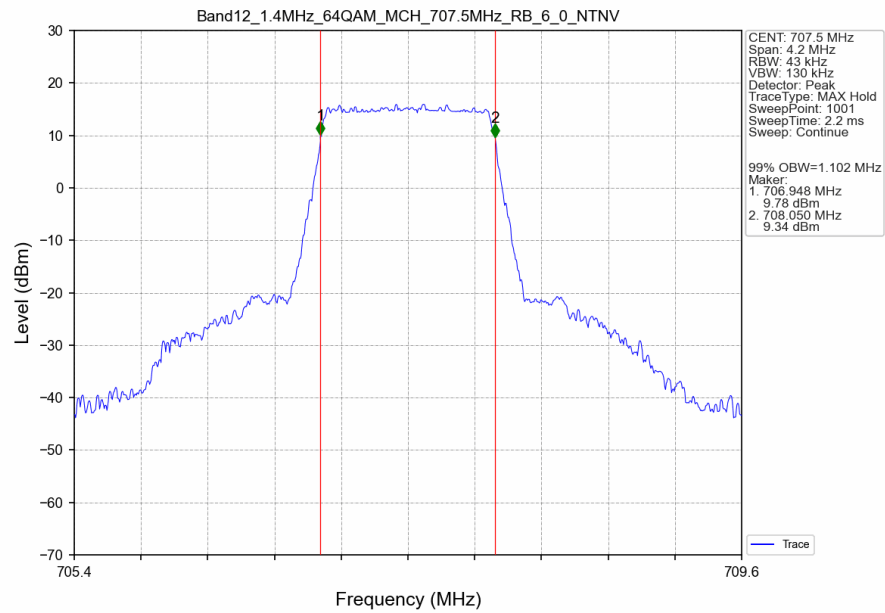
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.339	/	Pass
	16QAM	707.5	6	0	1.332	/	Pass
	64QAM	707.5	6	0	1.317	/	Pass
3	QPSK	707.5	15	0	2.985	/	Pass
	16QAM	707.5	15	0	2.980	/	Pass
	64QAM	707.5	15	0	3.002	/	Pass
5	QPSK	707.5	25	0	5.308	/	Pass
	16QAM	707.5	25	0	5.305	/	Pass
	64QAM	707.5	25	0	5.222	/	Pass
10	QPSK	707.5	50	0	10.304	/	Pass
	16QAM	707.5	50	0	10.252	/	Pass
	64QAM	707.5	50	0	10.162	/	Pass

3.2 Test Graph

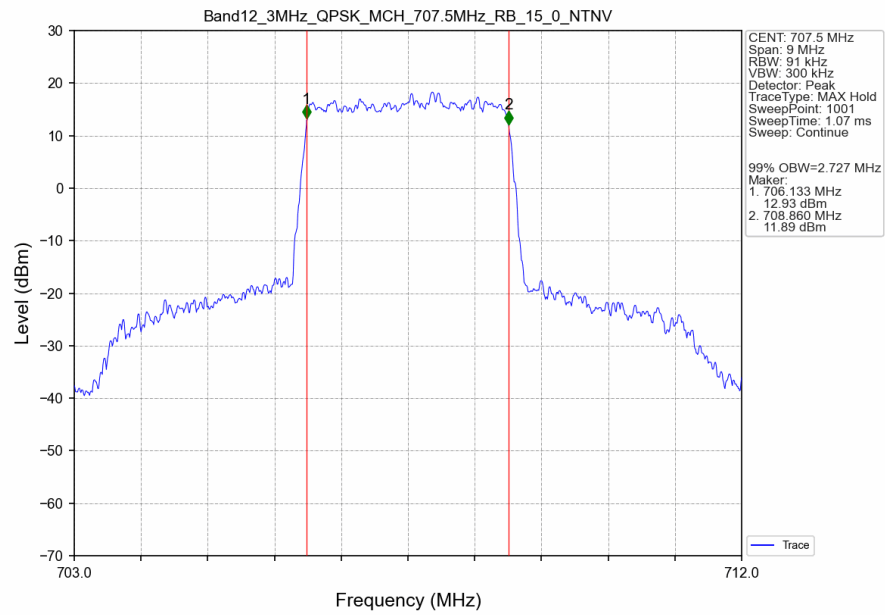
3.2.1 Band12_OBW



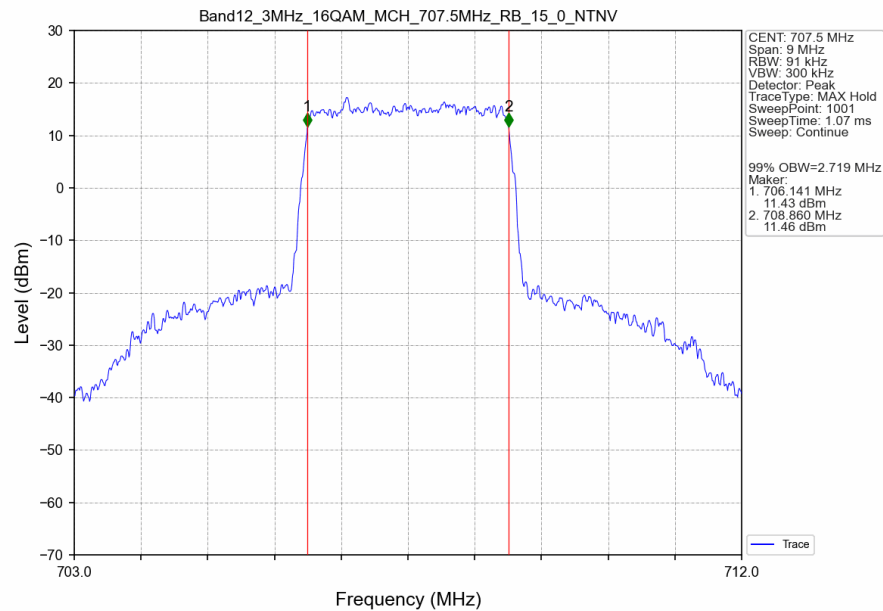
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



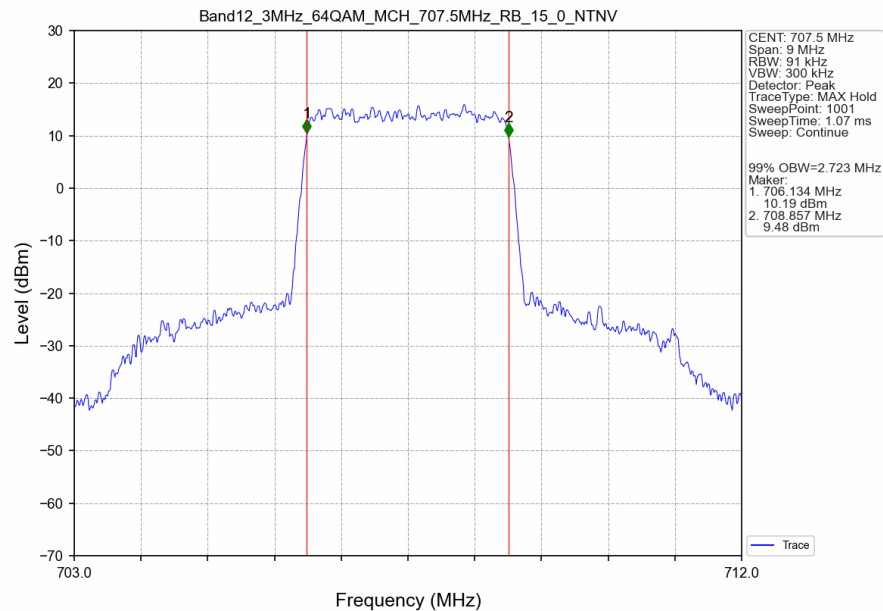
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



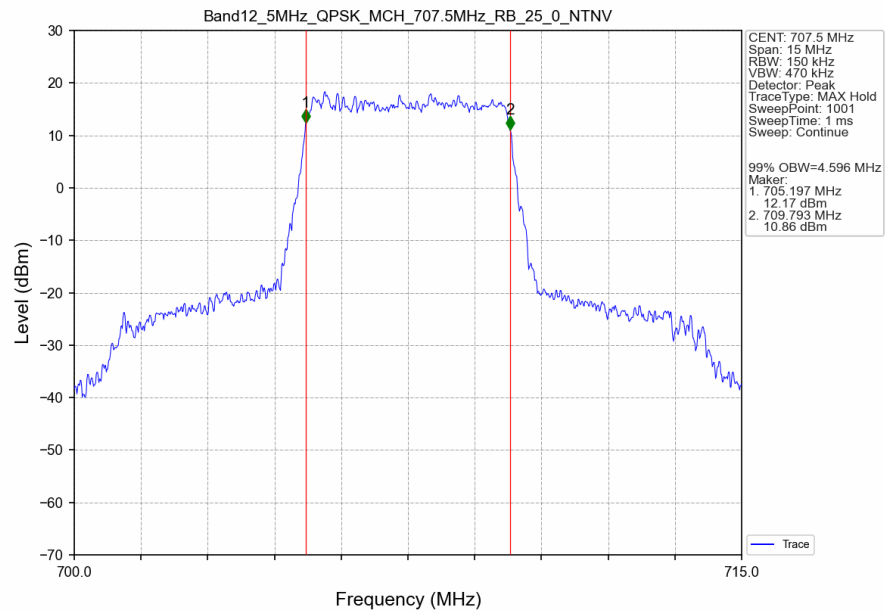
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



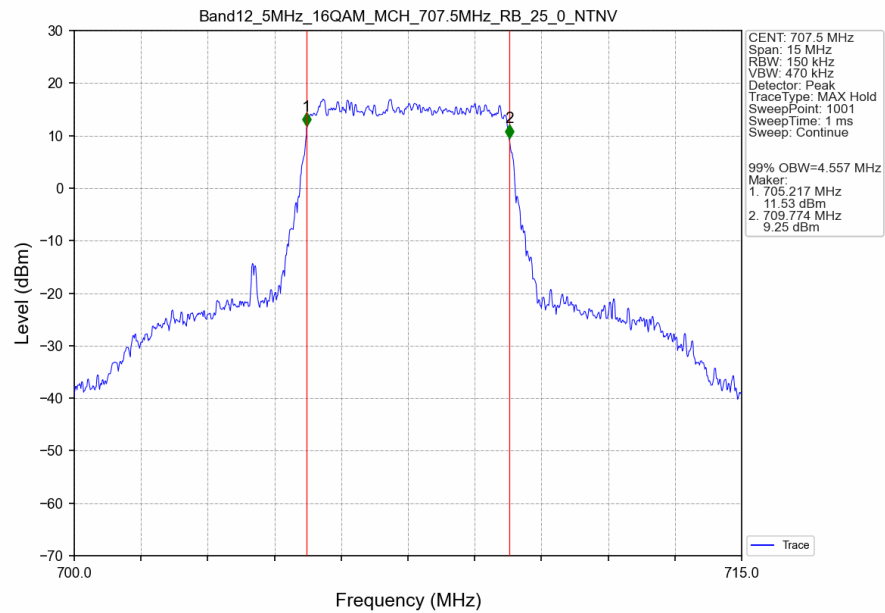
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTNV



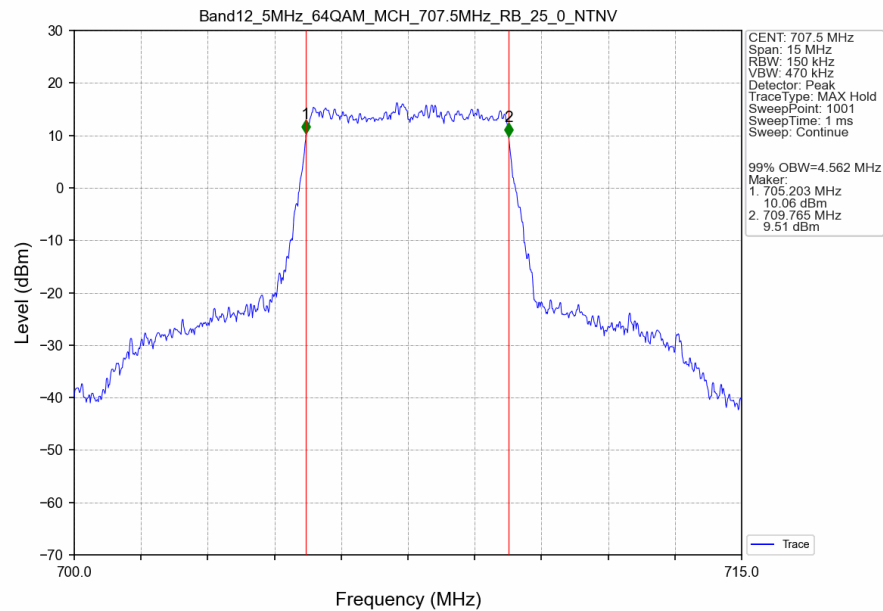
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTV



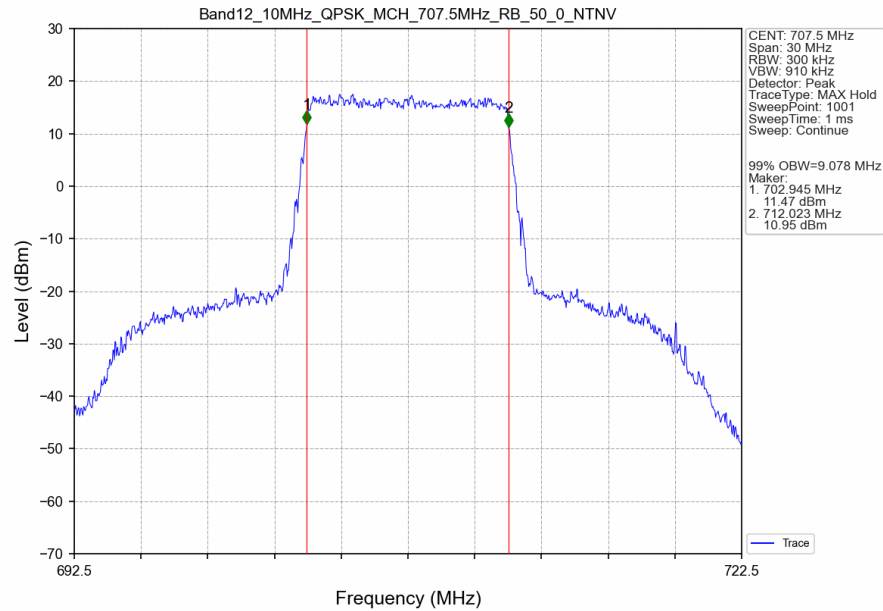
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



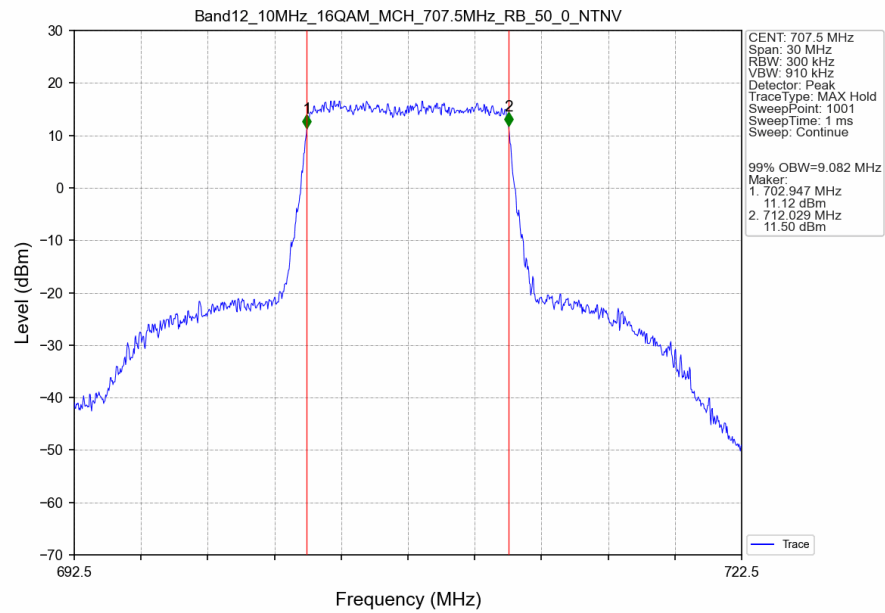
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTV



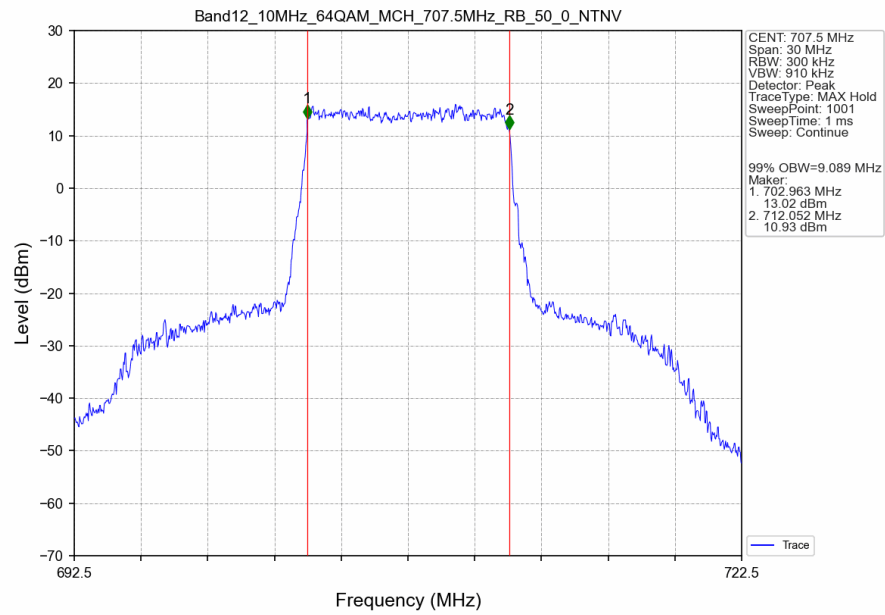
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTV



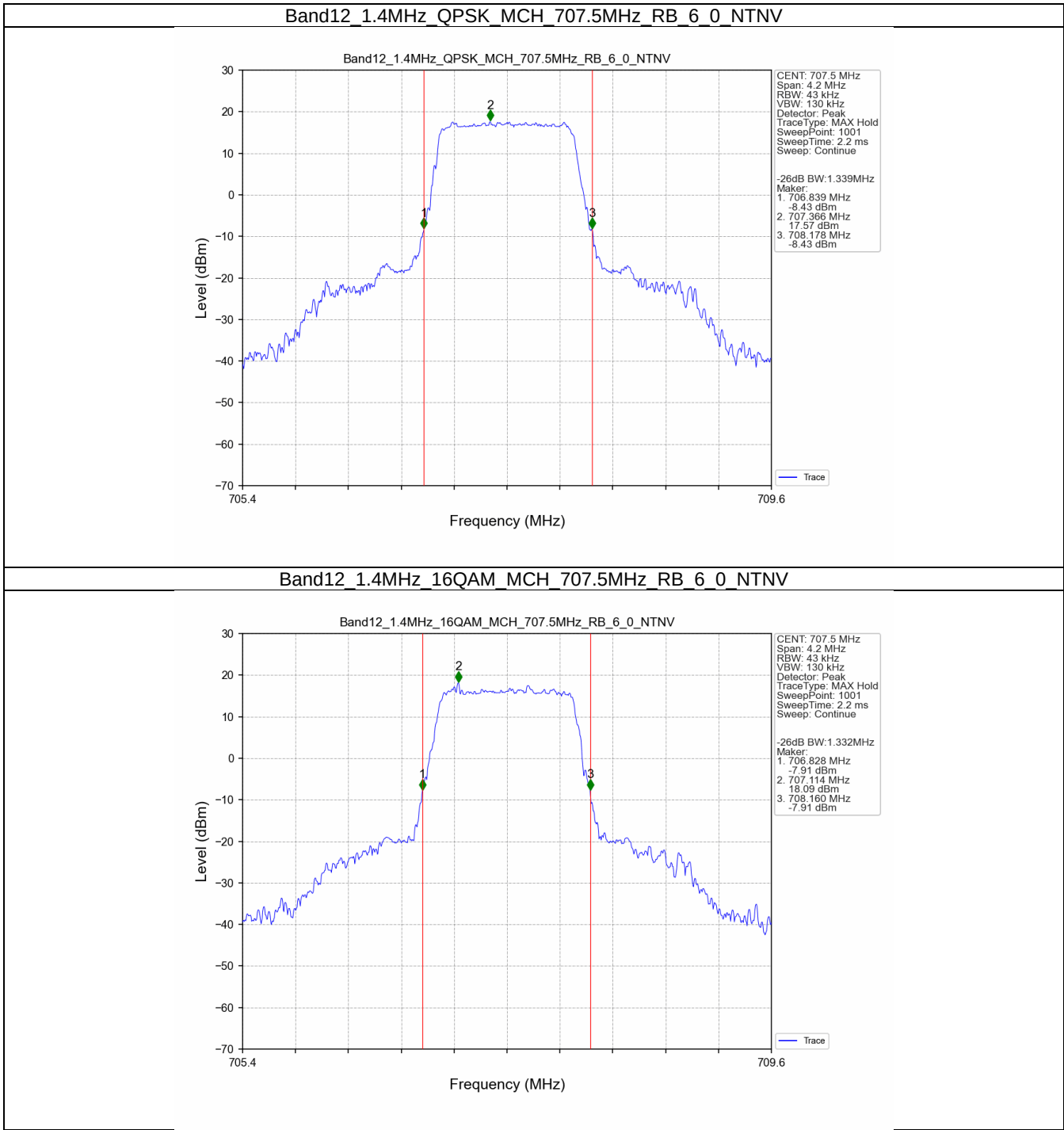
Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



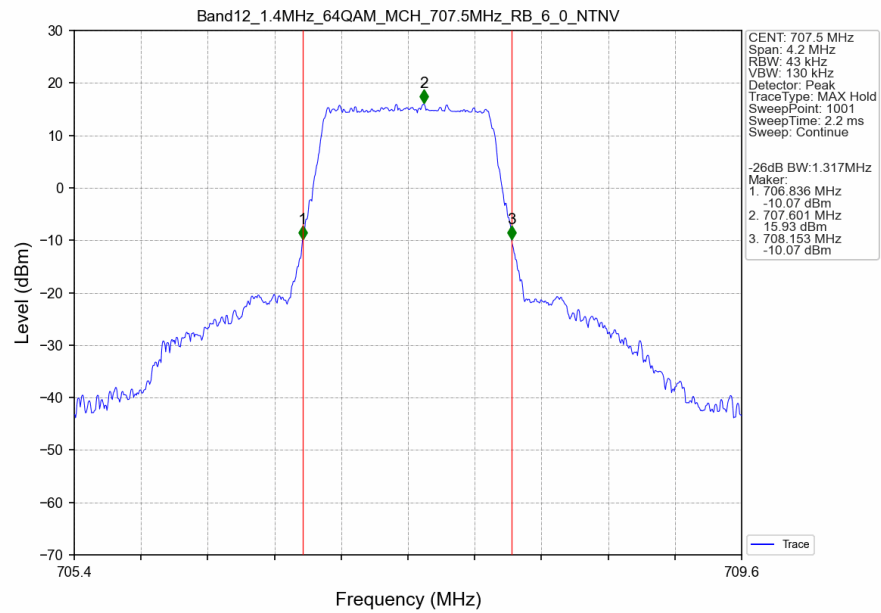
Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTN



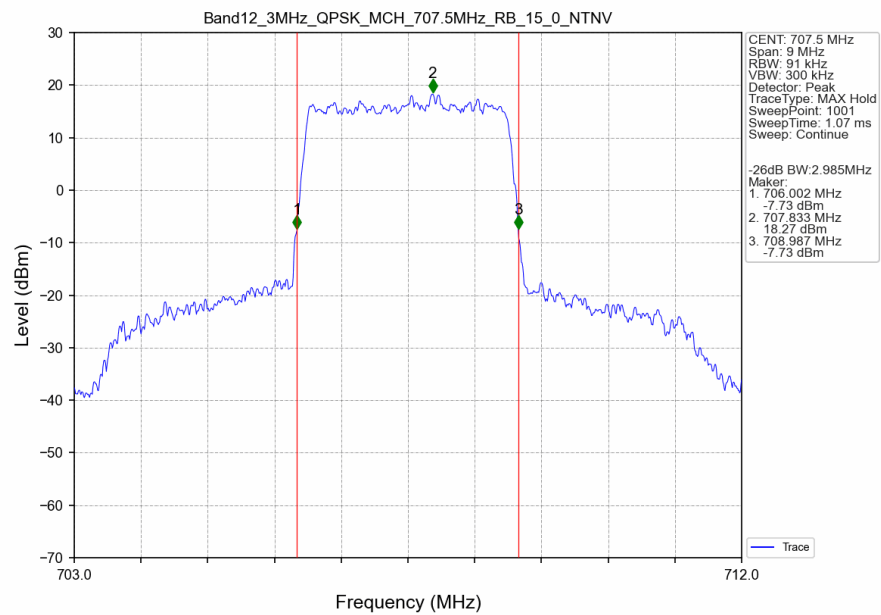
3.2.2 Band12_XDB



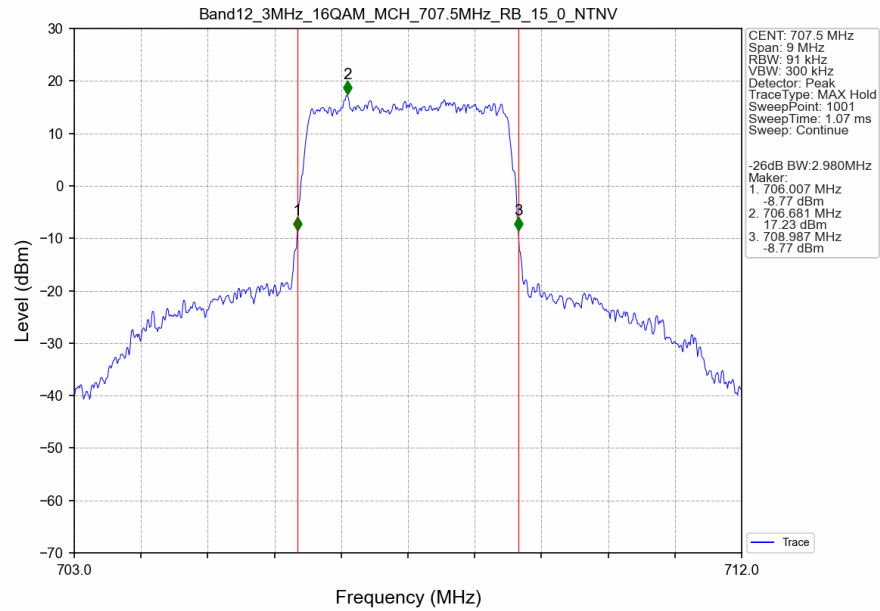
Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTNV



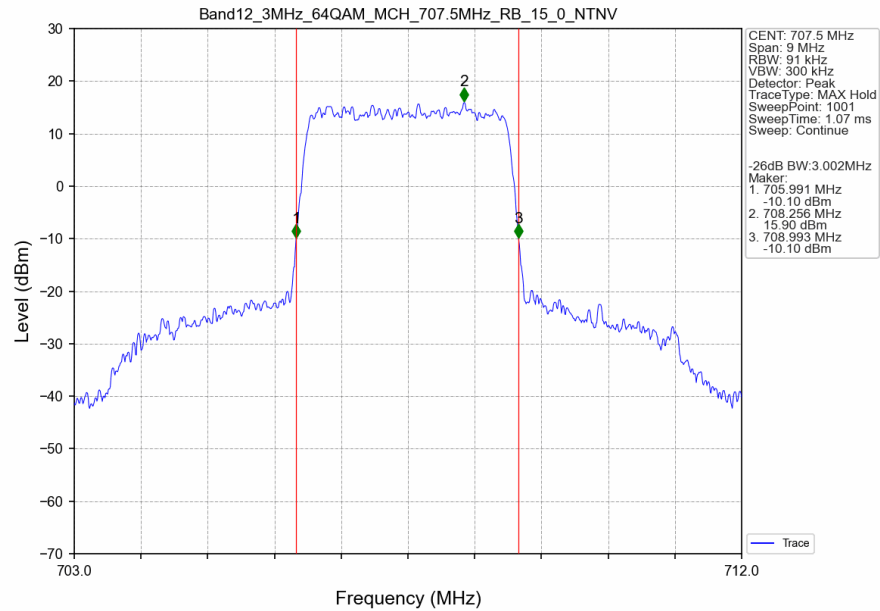
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



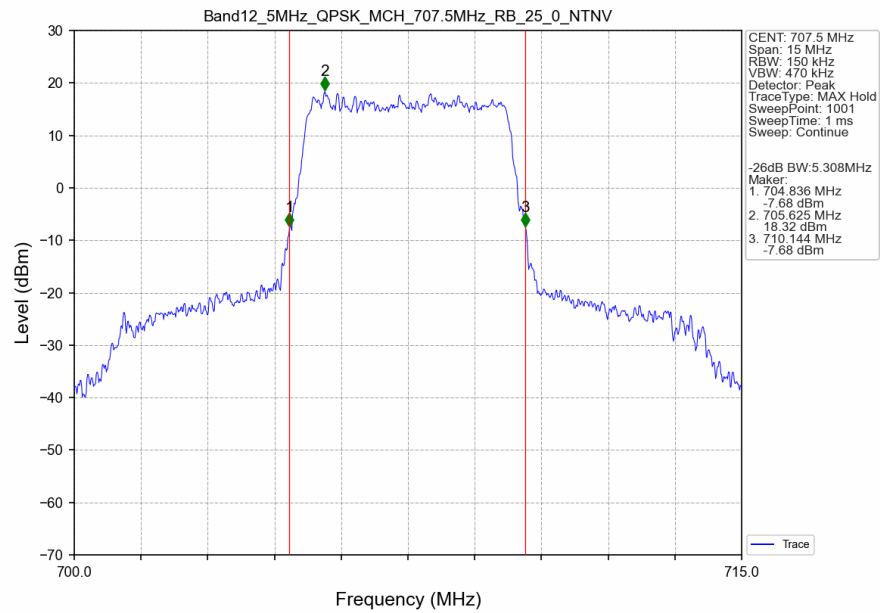
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTV



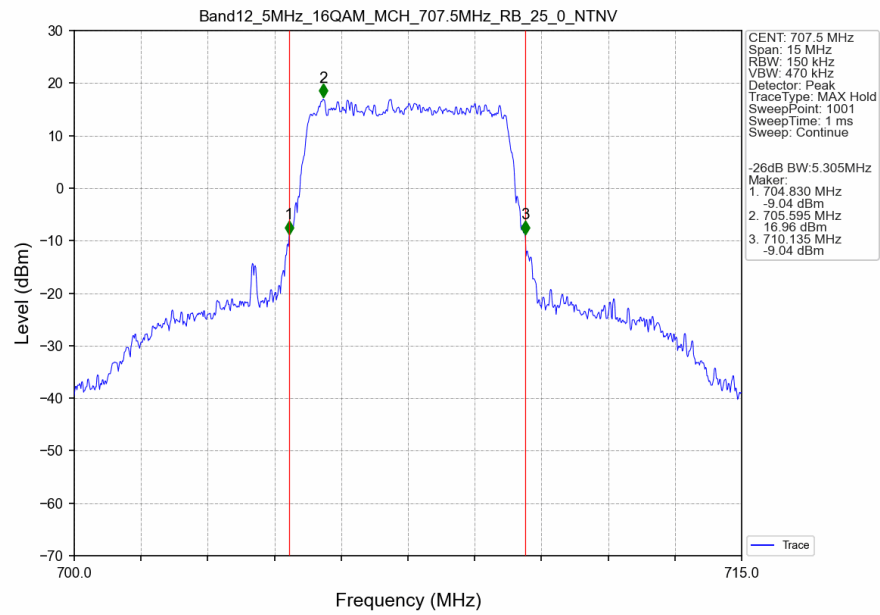
Band12 3MHz 64QAM MCH 707.5MHz RB 15 0 NTV



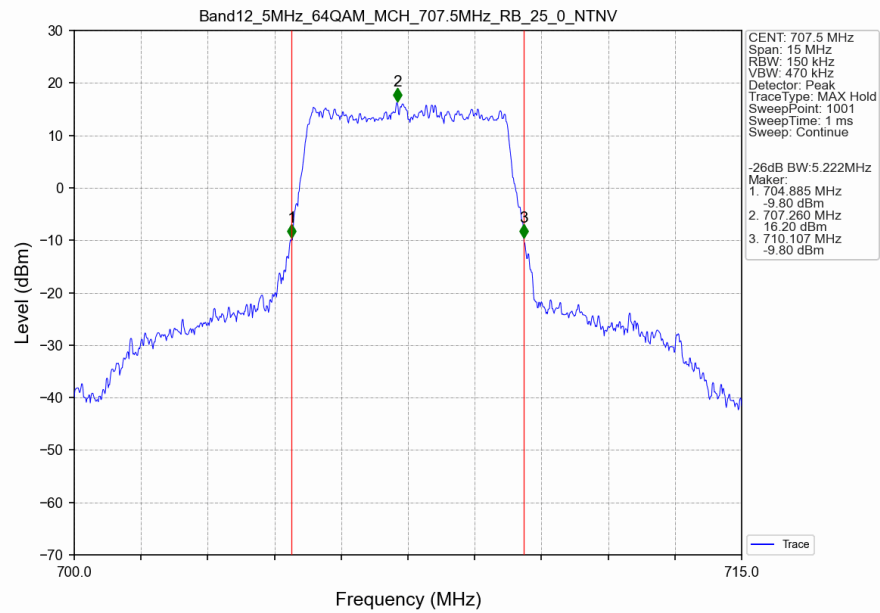
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTV



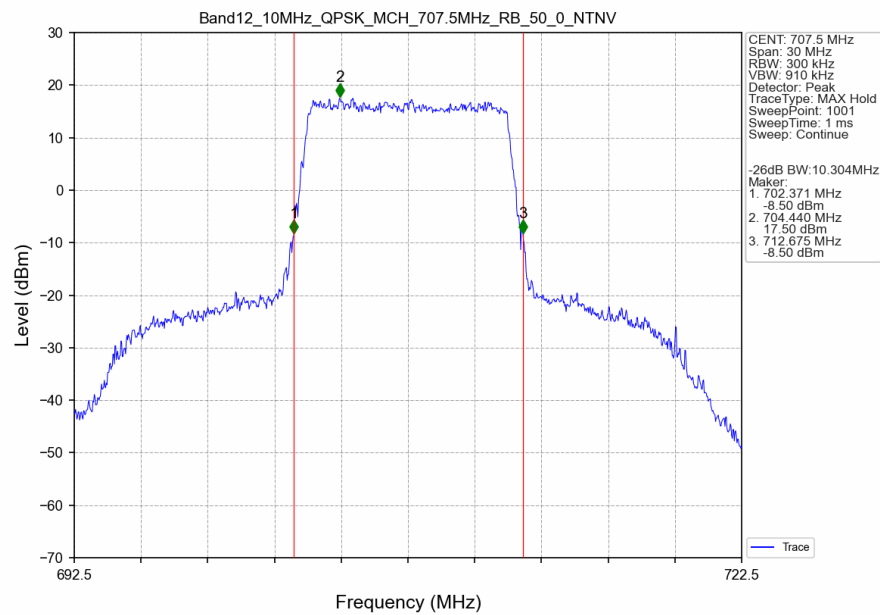
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTV



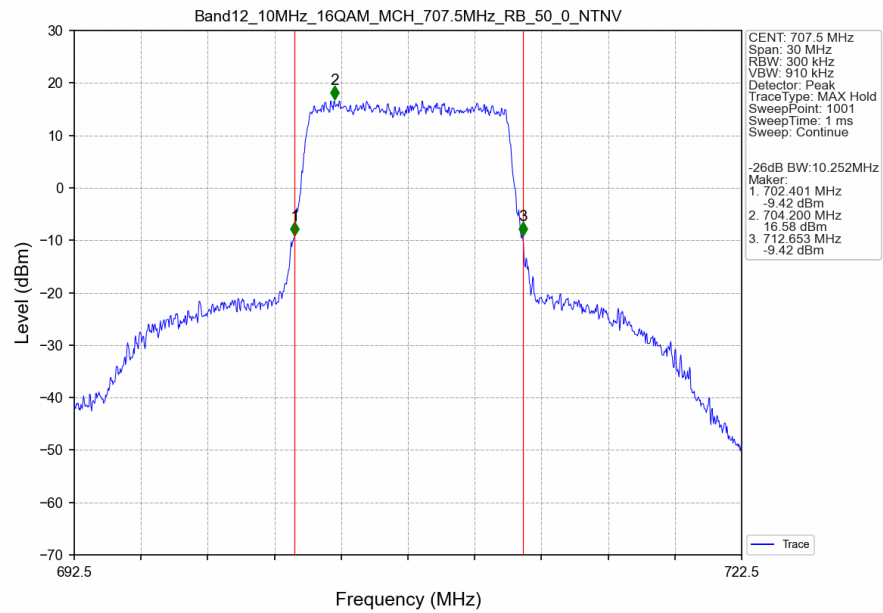
Band12 5MHz 64QAM MCH 707.5MHz RB 25 0 NTV



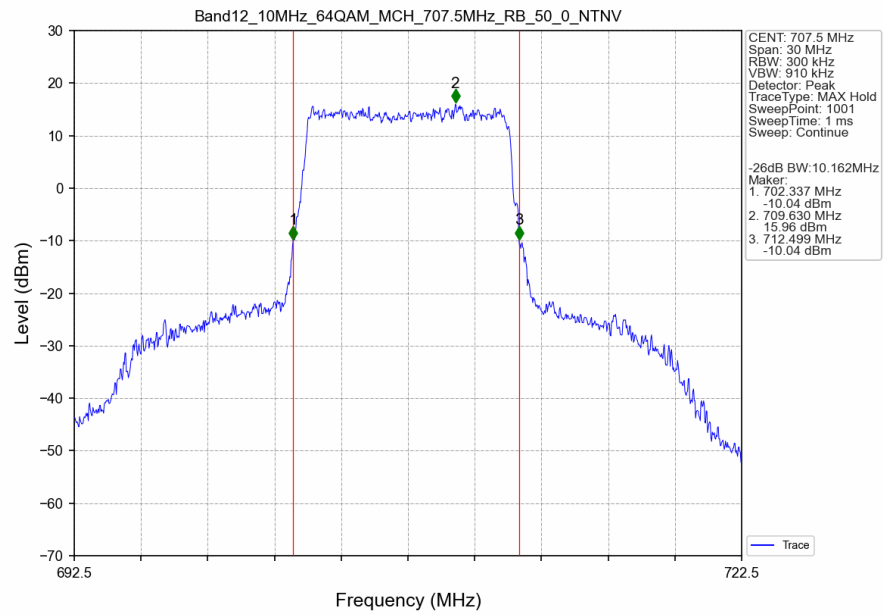
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTV



Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTN



Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTN



4. Peak-Average Ratio

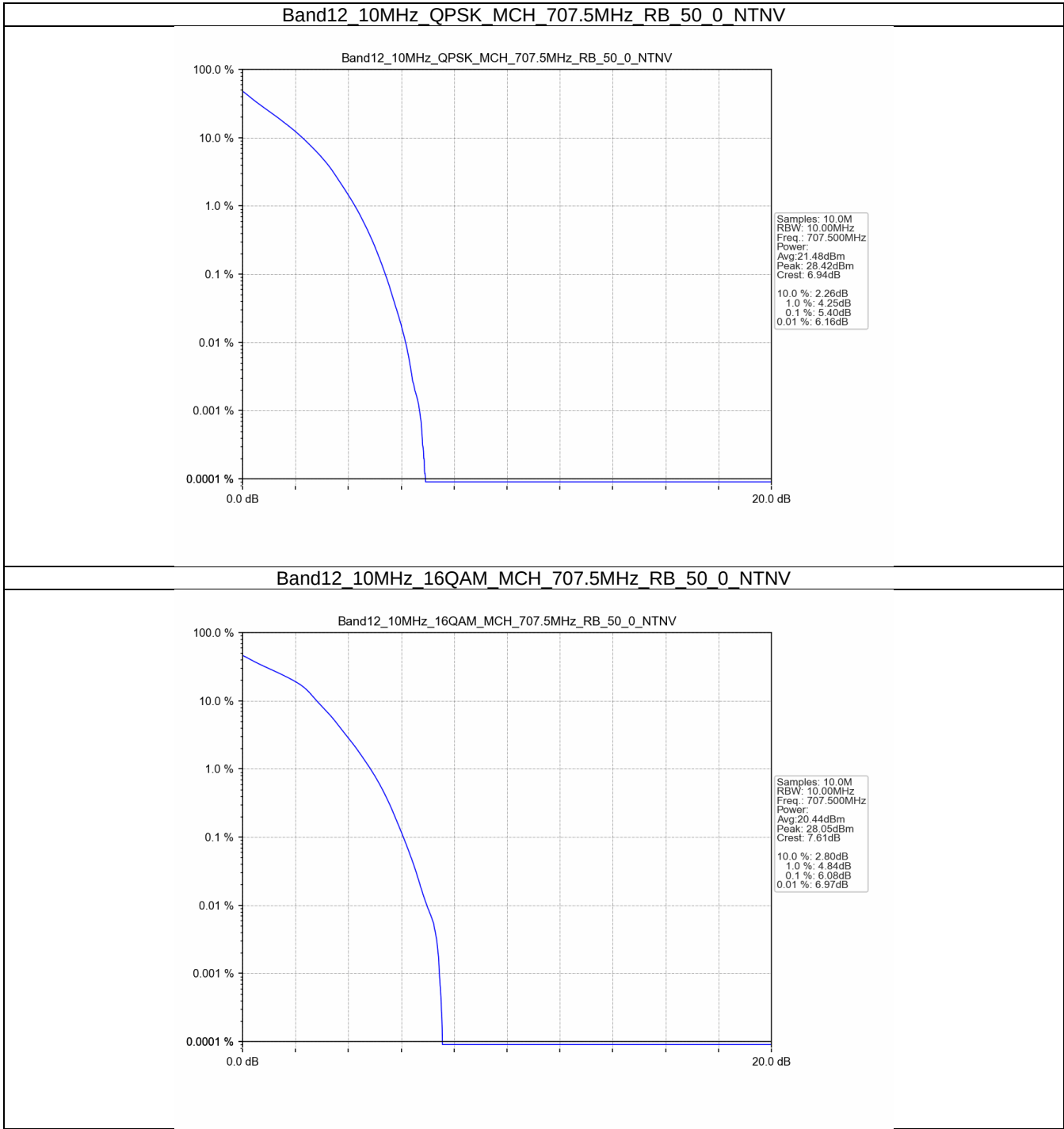
4.1 Test Result

4.1.1 B12_10MHz

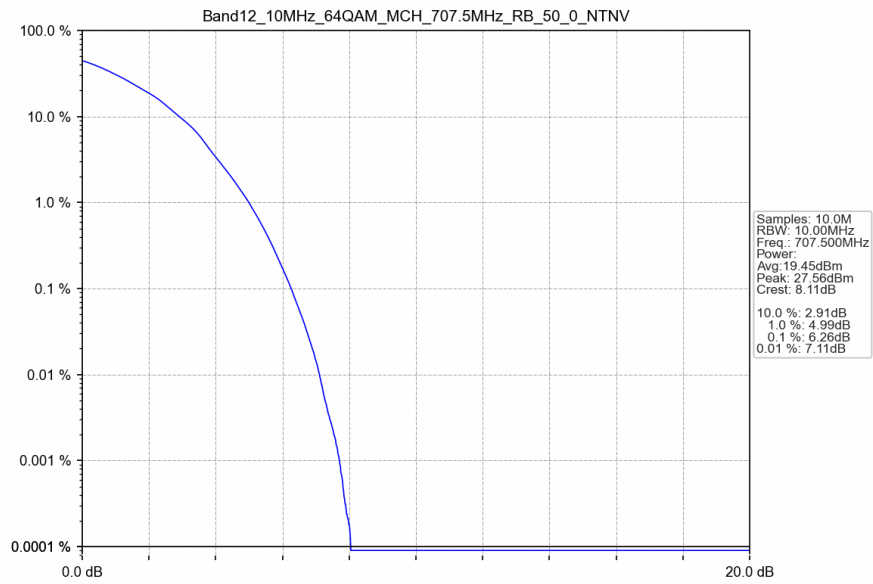
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.40	<=13	Pass
16QAM	707.5	50	0	6.08	<=13	Pass
64QAM	707.5	50	0	6.26	<=13	Pass

4.2 Test Graph

4.2.1 B12_10MHz



Band12 10MHz 64QAM MCH 707.5MHz RB 50 0 NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
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
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTV						
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

5.1.3 B12_5MHz

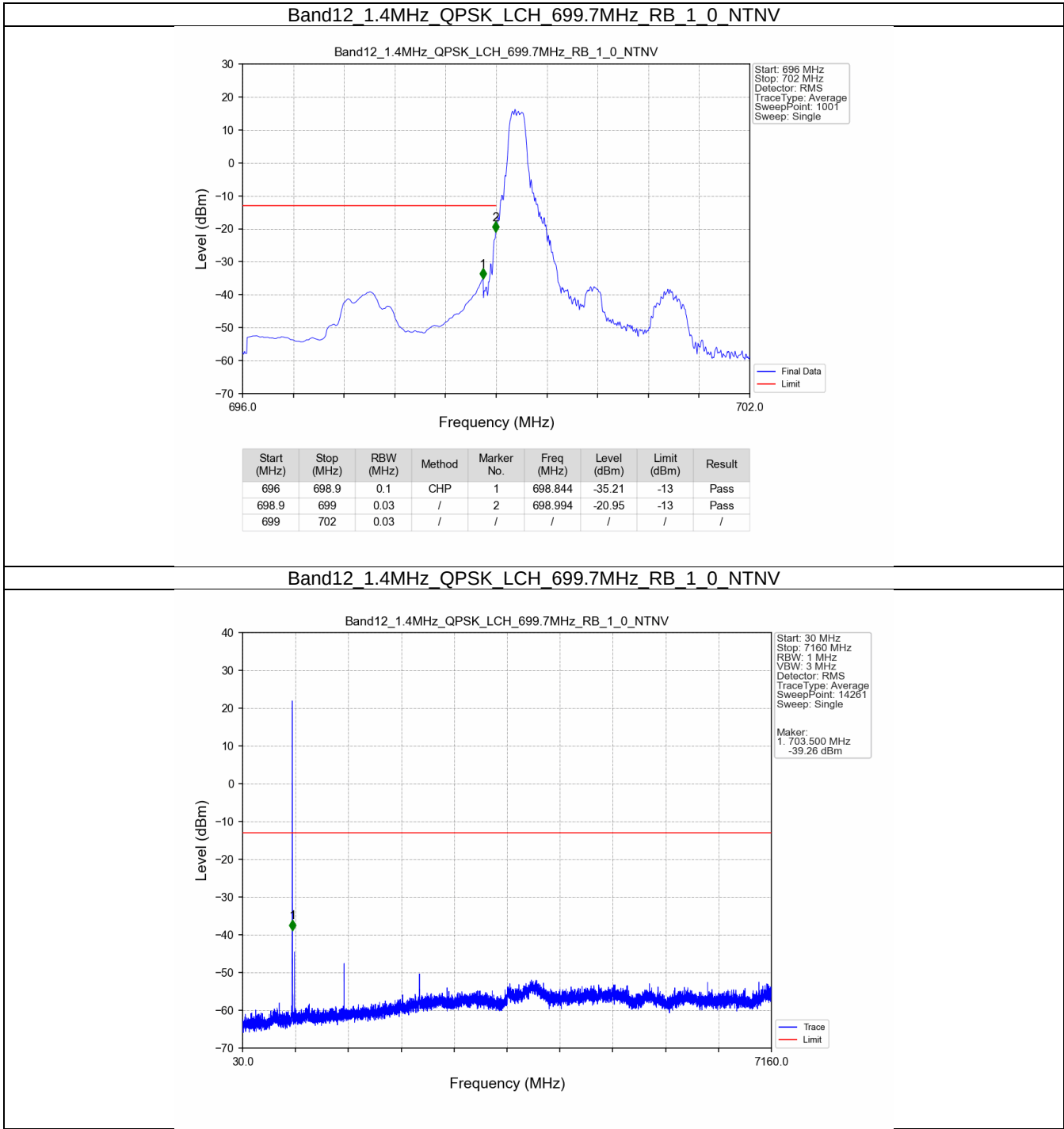
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B12_10MHz

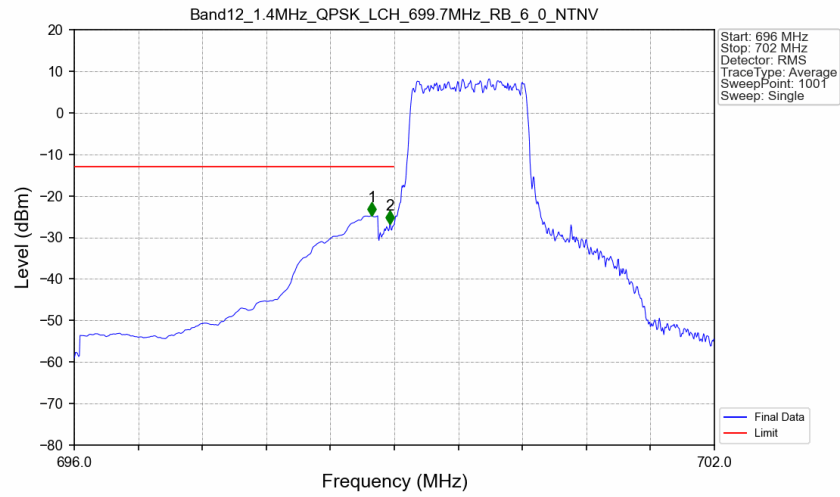
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B12_1.4MHz

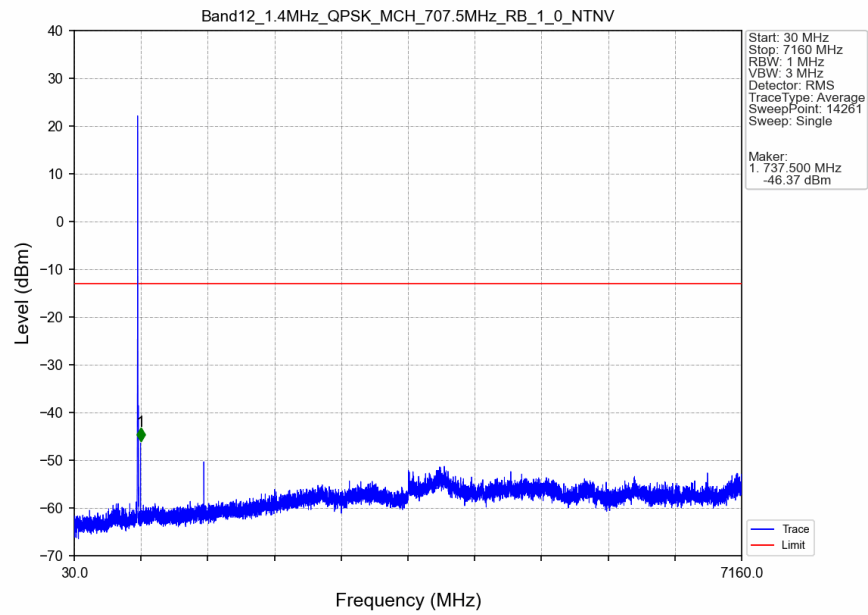


Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV

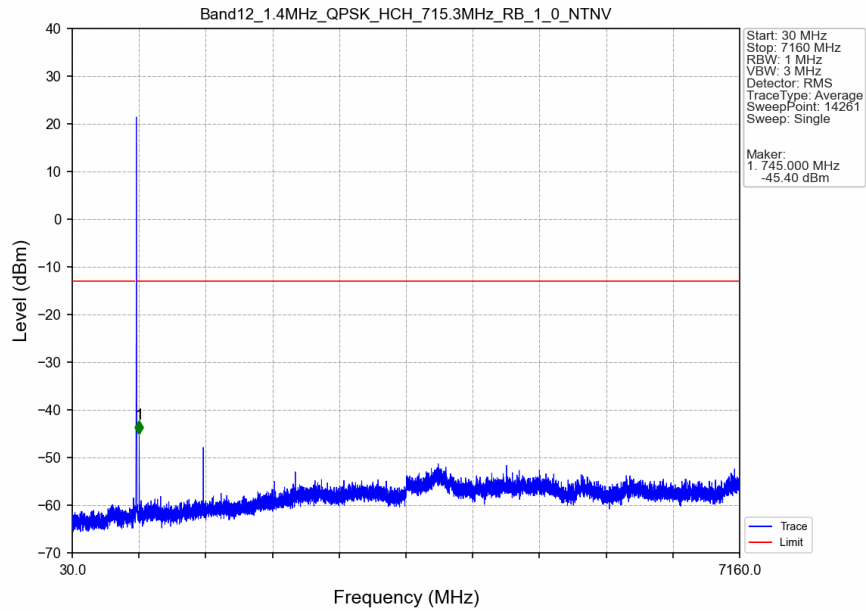


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.790	-24.71	-13	Pass
698.9	699	0.03	/	2	698.958	-26.69	-13	Pass
699	702	0.03	/	/	/	/	/	/

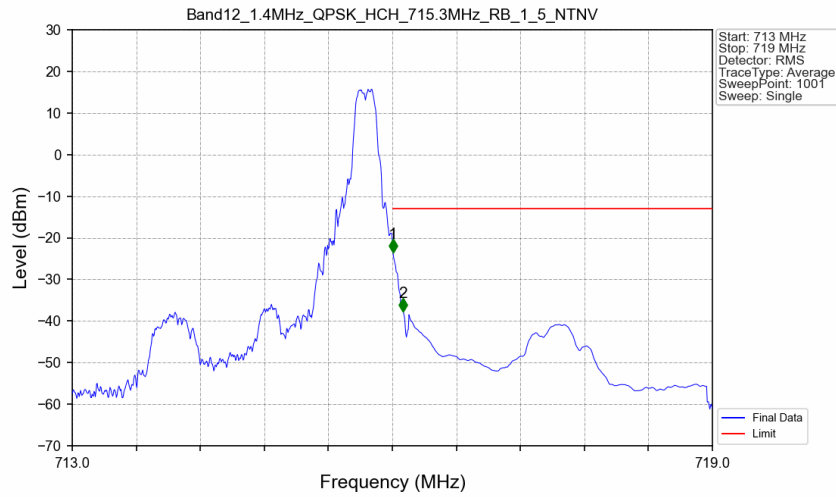
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV

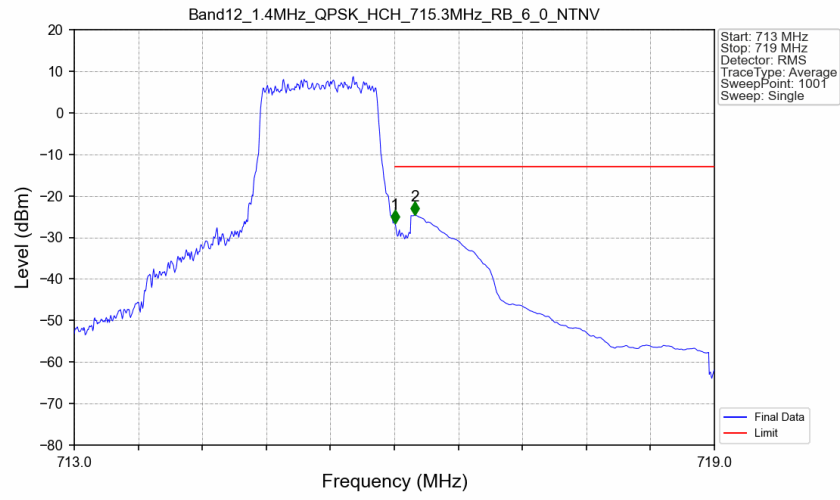


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTV



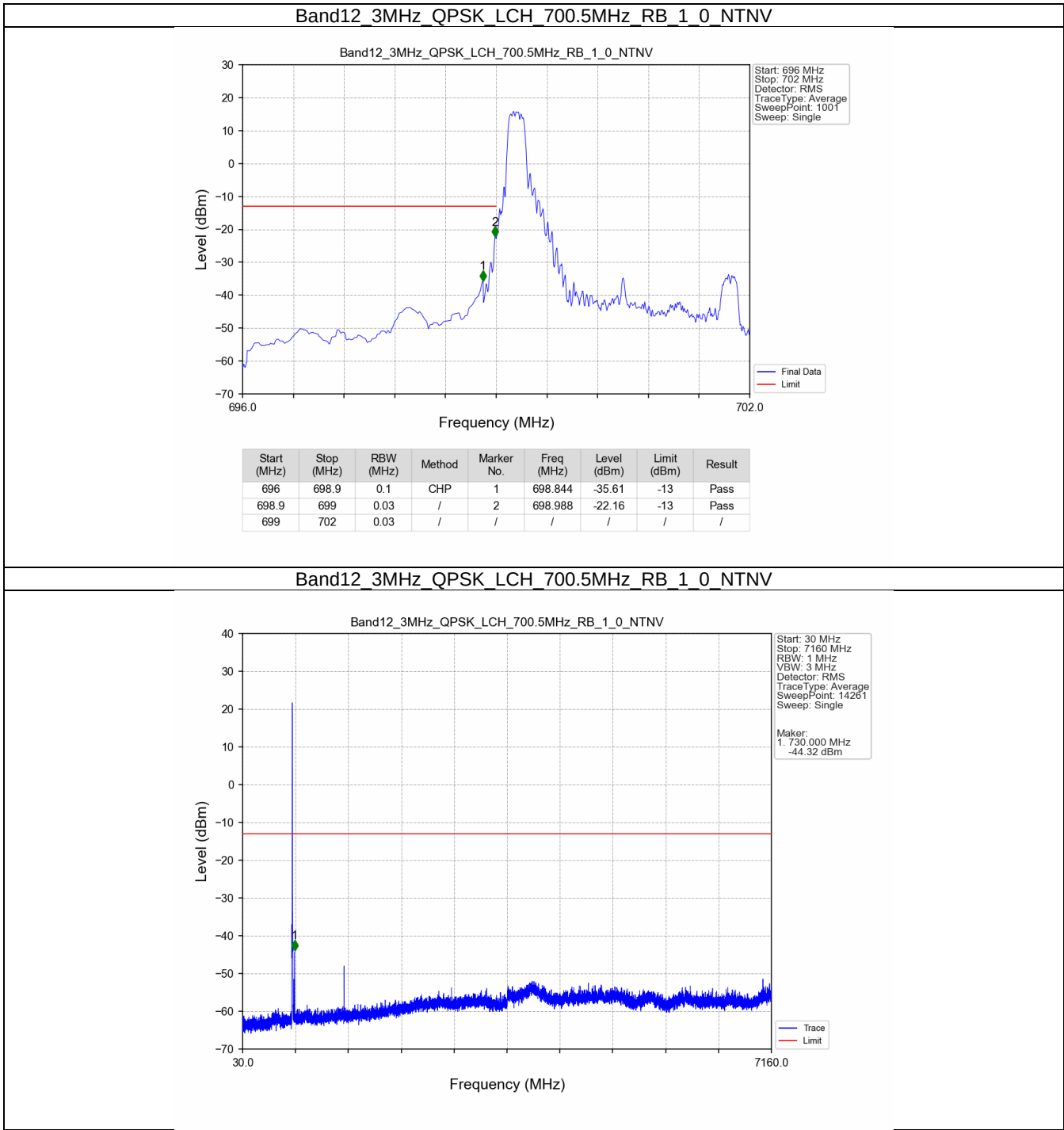
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-23.45	-13	Pass
716.1	719	0.1	CHP	2	716.102	-37.70	-13	Pass

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV

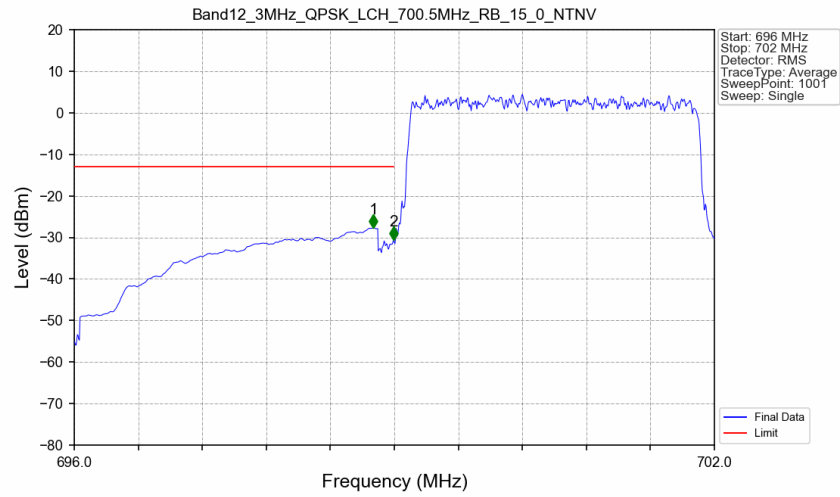


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-26.61	-13	Pass
716.1	719	0.1	CHP	2	716.192	-24.60	-13	Pass

5.2.2 B12_3MHz

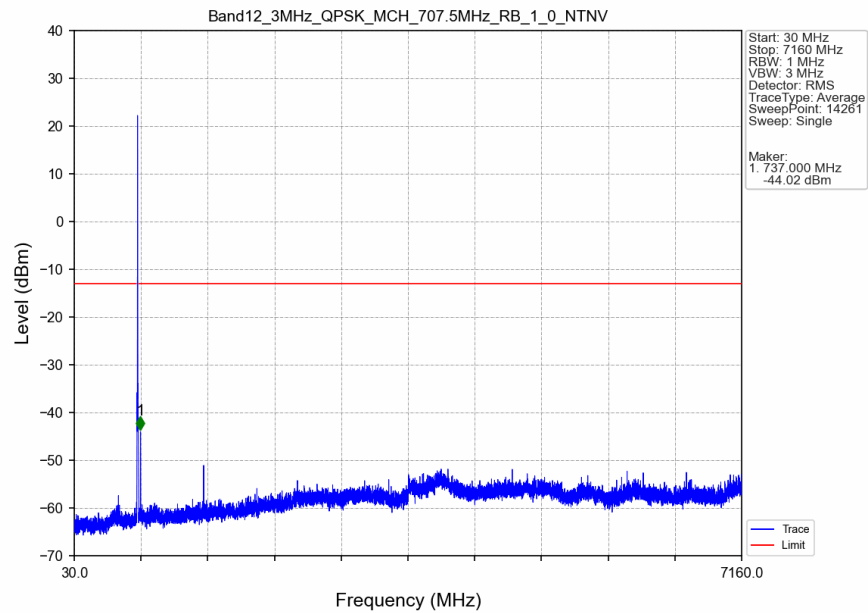


Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV

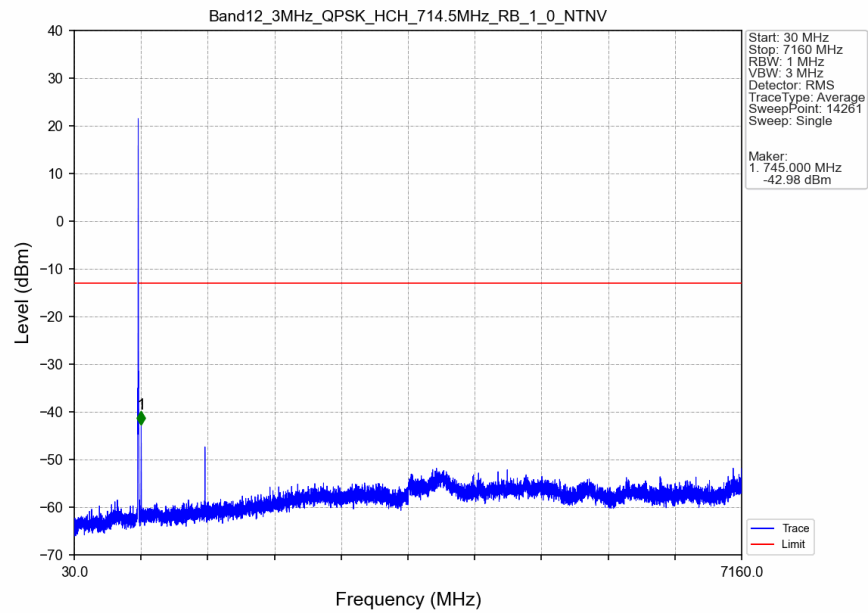


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.802	-27.73	-13	Pass
698.9	699	0.03	/	2	698.994	-30.64	-13	Pass
699	702	0.03	/	/	/	/	/	/

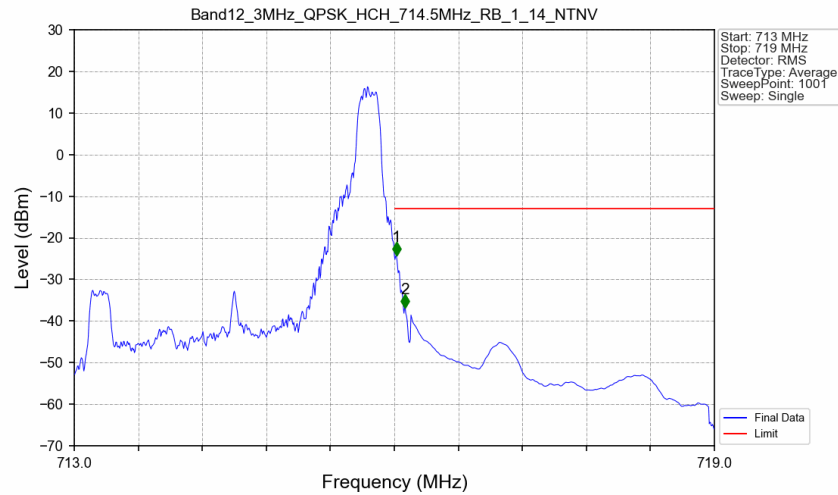
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTV

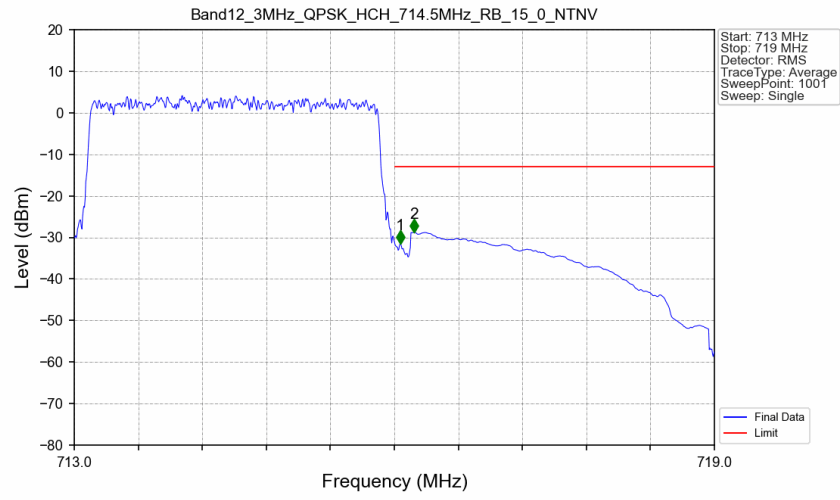


Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTV



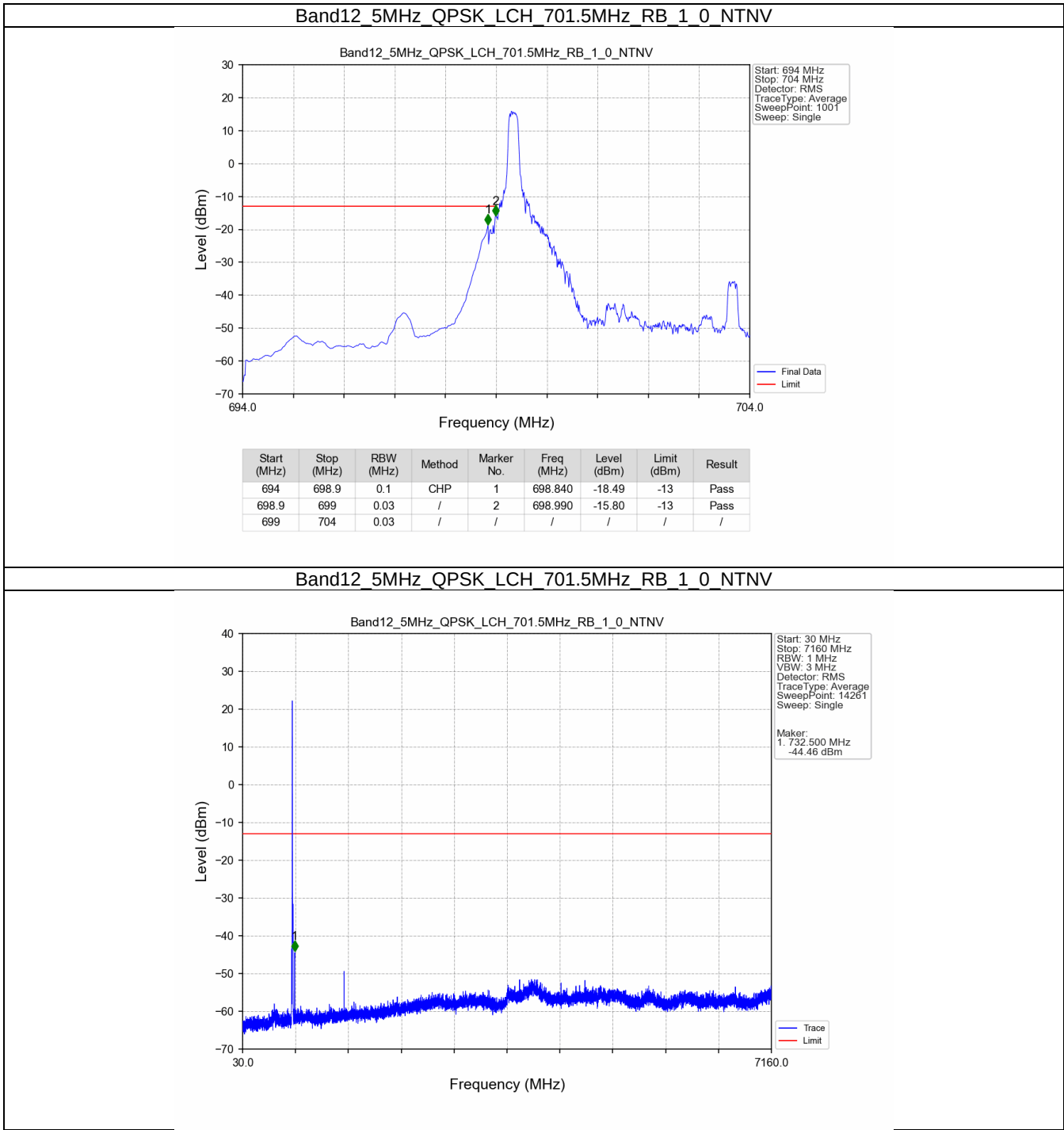
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-24.20	-13	Pass
716.1	719	0.1	CHP	2	716.102	-36.87	-13	Pass

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTN

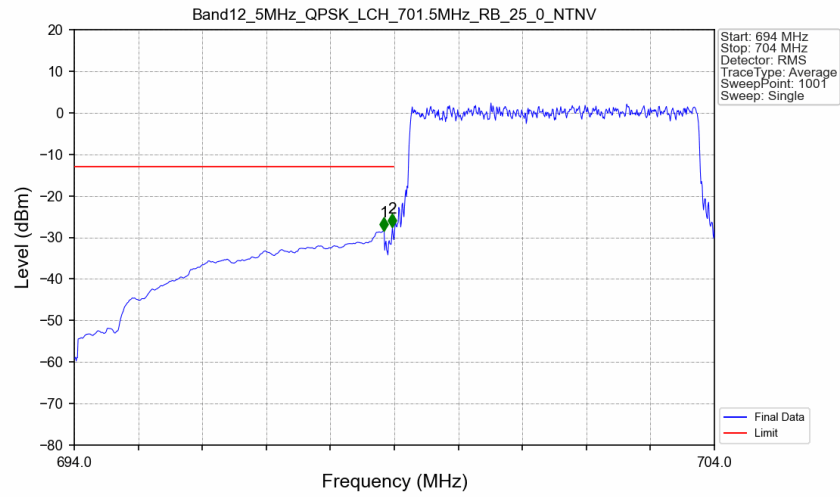


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.054	-31.52	-13	Pass
716.1	719	0.1	CHP	2	716.186	-28.77	-13	Pass

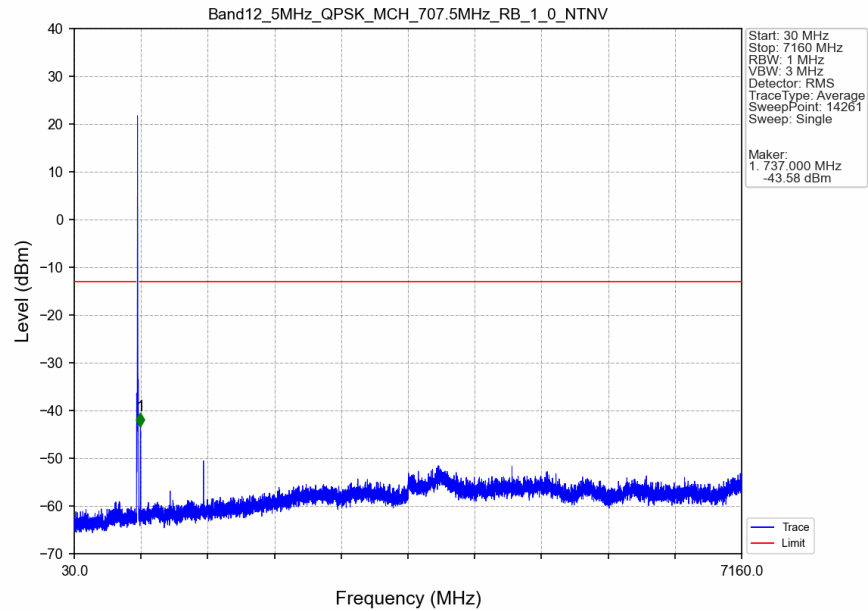
5.2.3 B12_5MHz



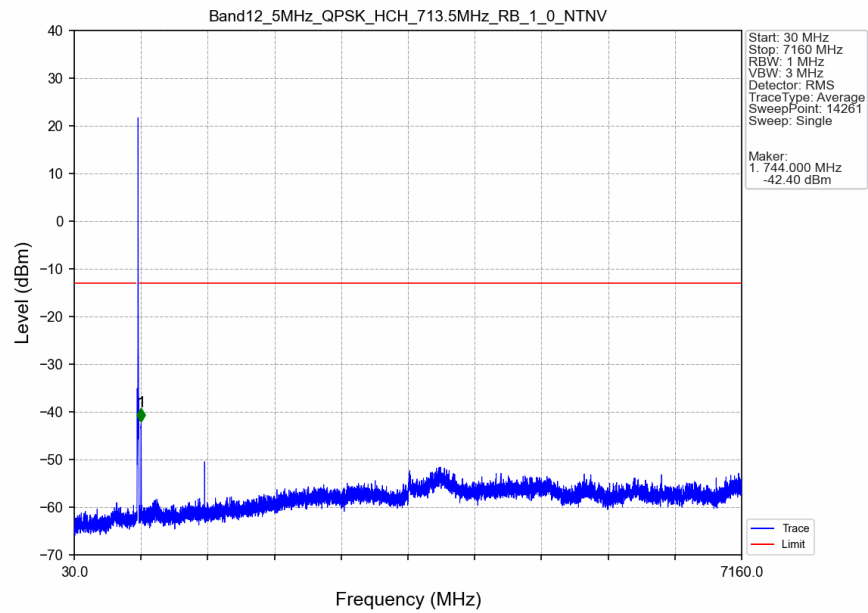
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



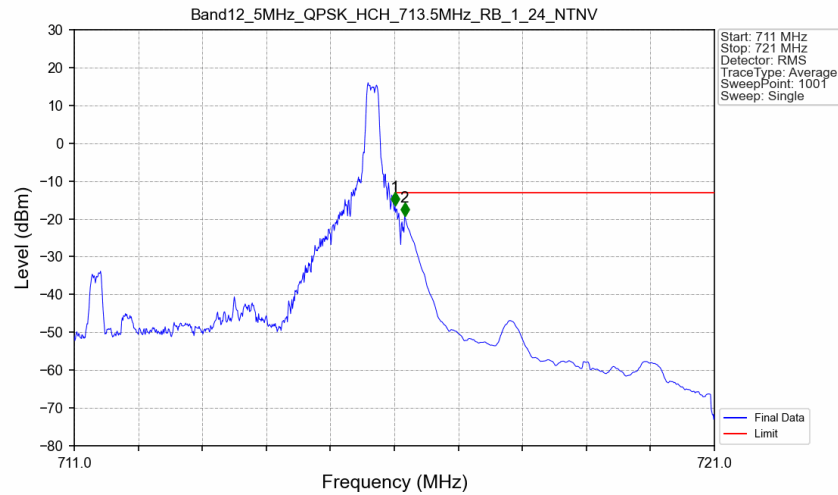
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTV

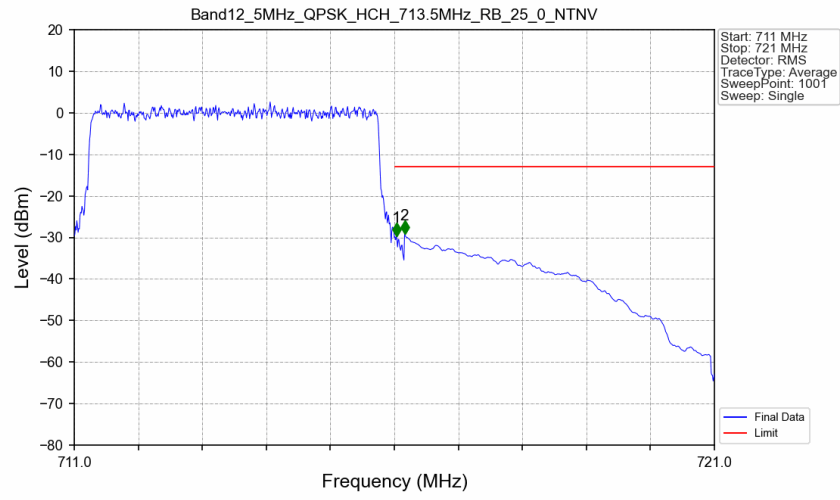


Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTV



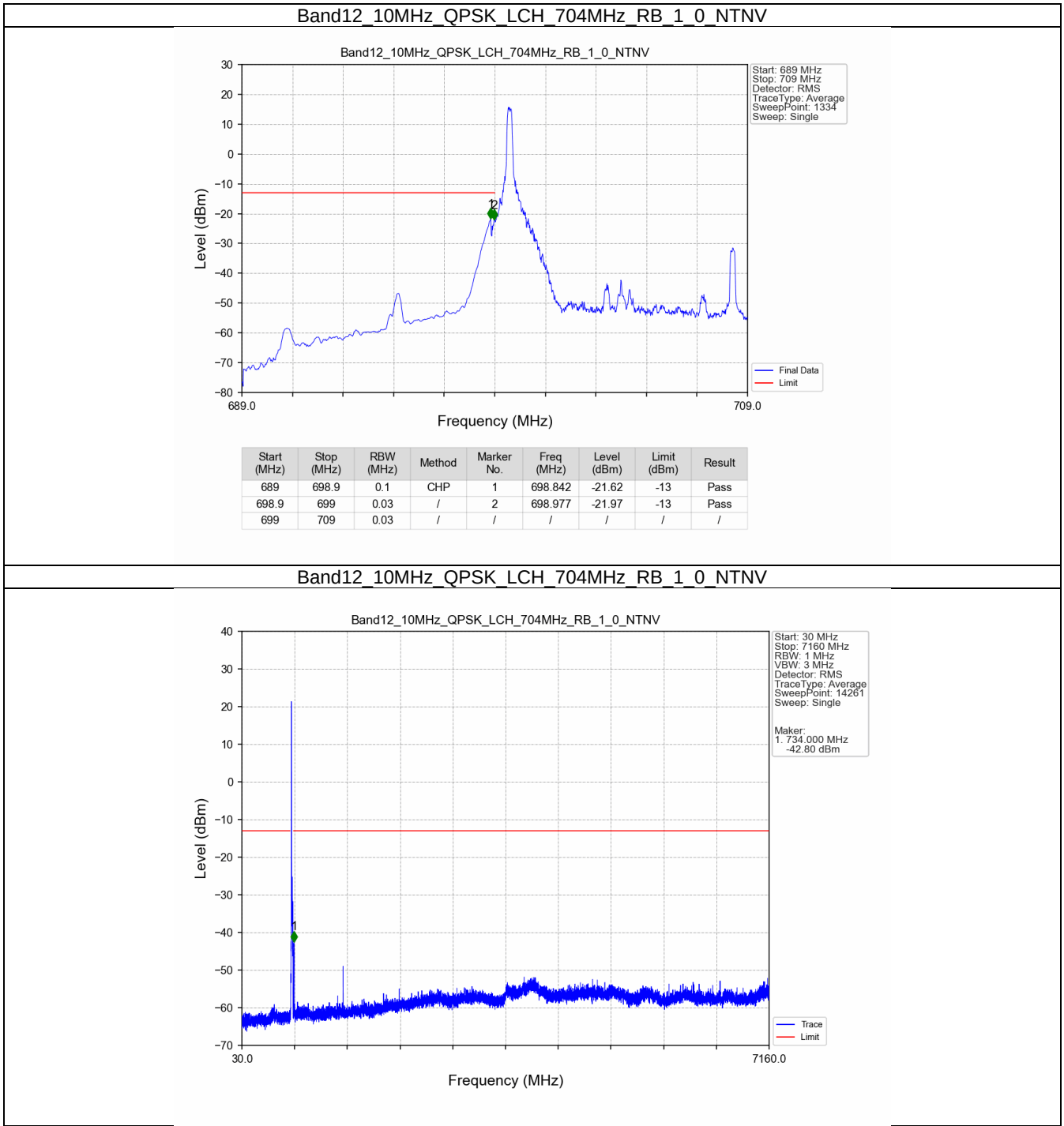
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-16.46	-13	Pass
716.1	721	0.1	CHP	2	716.160	-19.28	-13	Pass

Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN

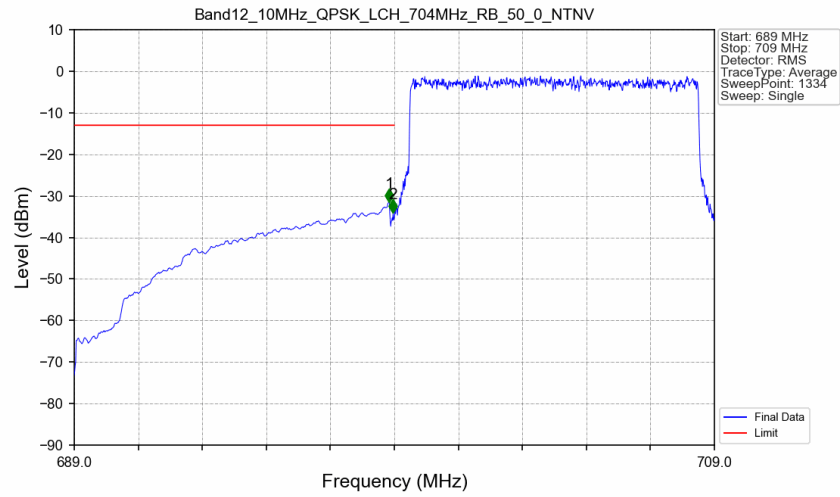


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-29.66	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.20	-13	Pass

5.2.4 B12_10MHz

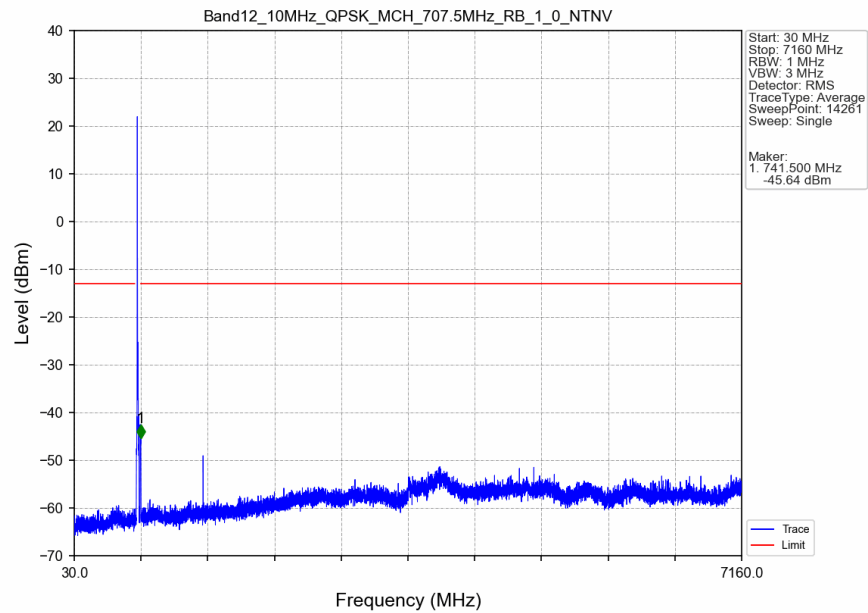


Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV

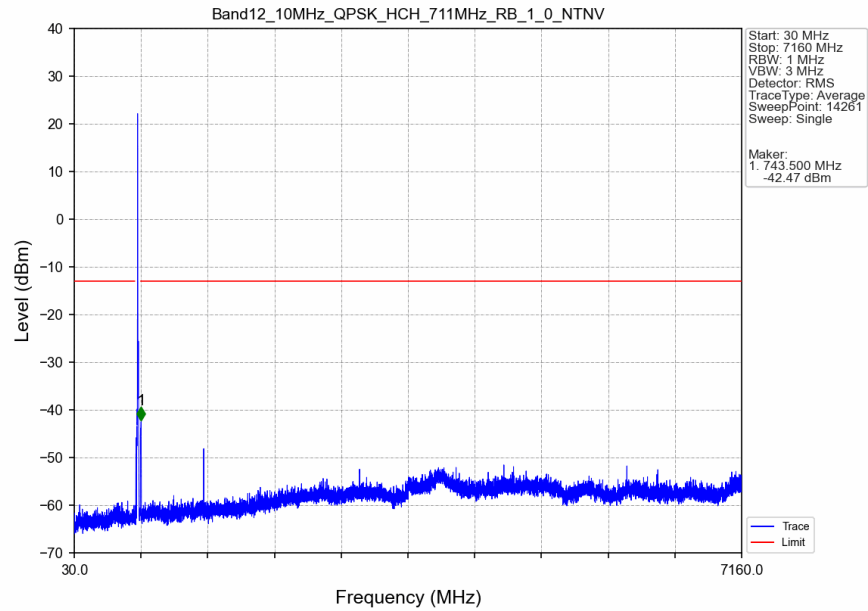


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-31.43	-13	Pass
698.9	699	0.03	/	2	698.962	-33.96	-13	Pass
699	709	0.03	/	/	/	/	/	/

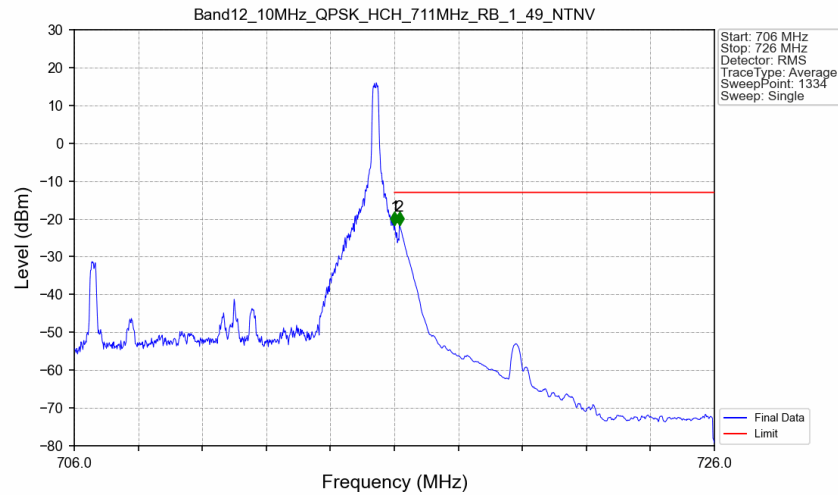
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 10MHz QPSK HCH 711MHz RB 1 0 NTNV

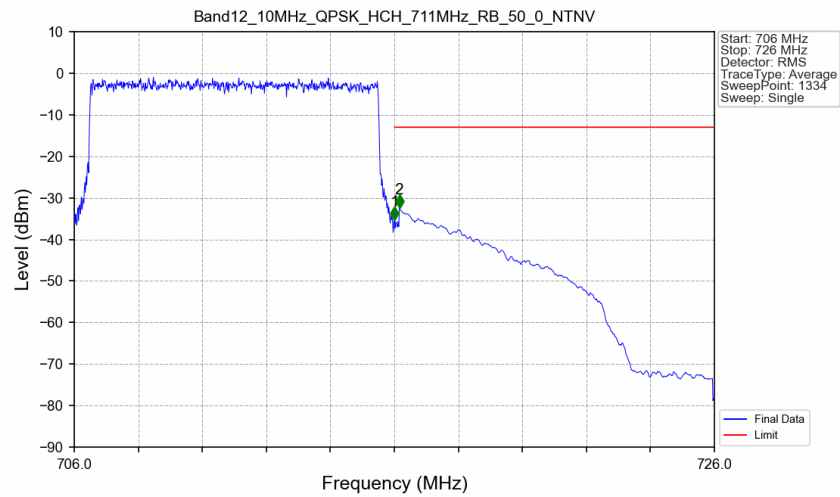


Band12 10MHz QPSK HCH 711MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-21.66	-13	Pass
716.1	726	0.1	CHP	2	716.158	-21.55	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-35.23	-13	Pass
716.1	726	0.1	CHP	2	716.158	-32.30	-13	Pass