

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	24.26	3.00	25.11	<=34.77	Pass
			2	24.10	3.00	24.95	<=34.77	Pass
			5	24.41	3.00	25.26	<=34.77	Pass
		3	0	24.27	3.00	25.12	<=34.77	Pass
			2	24.16	3.00	25.01	<=34.77	Pass
			3	24.56	3.00	25.41	<=34.77	Pass
		6	0	23.35	3.00	24.20	<=34.77	Pass
	707.5	1	0	24.33	3.00	25.18	<=34.77	Pass
			2	24.19	3.00	25.04	<=34.77	Pass
			5	24.29	3.00	25.14	<=34.77	Pass
		3	0	24.34	3.00	25.19	<=34.77	Pass
			2	24.19	3.00	25.04	<=34.77	Pass
			3	24.21	3.00	25.06	<=34.77	Pass
		6	0	23.68	3.00	24.53	<=34.77	Pass
	715.3	1	0	24.33	3.00	25.18	<=34.77	Pass
			2	24.21	3.00	25.06	<=34.77	Pass
			5	24.35	3.00	25.20	<=34.77	Pass
		3	0	24.16	3.00	25.01	<=34.77	Pass
			2	24.34	3.00	25.19	<=34.77	Pass
			3	24.26	3.00	25.11	<=34.77	Pass
		6	0	23.71	3.00	24.56	<=34.77	Pass
16QAM	699.7	1	0	23.80	3.00	24.65	<=34.77	Pass
			2	23.95	3.00	24.80	<=34.77	Pass
			5	23.87	3.00	24.72	<=34.77	Pass
		3	0	23.83	3.00	24.68	<=34.77	Pass
			2	23.23	3.00	24.08	<=34.77	Pass
			3	23.68	3.00	24.53	<=34.77	Pass
		6	0	22.78	3.00	23.63	<=34.77	Pass
	707.5	1	0	23.61	3.00	24.46	<=34.77	Pass
			2	23.98	3.00	24.83	<=34.77	Pass
			5	24.05	3.00	24.90	<=34.77	Pass
		3	0	23.74	3.00	24.59	<=34.77	Pass
			2	23.69	3.00	24.54	<=34.77	Pass
			3	23.67	3.00	24.52	<=34.77	Pass
		6	0	23.08	3.00	23.93	<=34.77	Pass
	715.3	1	0	23.74	3.00	24.59	<=34.77	Pass
			2	23.77	3.00	24.62	<=34.77	Pass
			5	23.86	3.00	24.71	<=34.77	Pass
		3	0	23.76	3.00	24.61	<=34.77	Pass
			2	23.92	3.00	24.77	<=34.77	Pass
			3	23.70	3.00	24.55	<=34.77	Pass
		6	0	22.88	3.00	23.73	<=34.77	Pass
64QAM	699.7	1	0	23.29	3.00	24.14	<=34.77	Pass
			2	23.68	3.00	24.53	<=34.77	Pass
			5	22.80	3.00	23.65	<=34.77	Pass
		3	0	23.61	3.00	24.46	<=34.77	Pass
			2	23.70	3.00	24.55	<=34.77	Pass

			3	23.64	3.00	24.49	<=34.77	Pass
		6	0	22.53	3.00	23.38	<=34.77	Pass
	707.5	1	0	23.50	3.00	24.35	<=34.77	Pass
			2	23.27	3.00	24.12	<=34.77	Pass
			5	23.74	3.00	24.59	<=34.77	Pass
		3	0	23.69	3.00	24.54	<=34.77	Pass
			2	23.27	3.00	24.12	<=34.77	Pass
			3	23.48	3.00	24.33	<=34.77	Pass
		6	0	22.76	3.00	23.61	<=34.77	Pass
	715.3	1	0	23.41	3.00	24.26	<=34.77	Pass
			2	23.51	3.00	24.36	<=34.77	Pass
			5	23.60	3.00	24.45	<=34.77	Pass
		3	0	23.01	3.00	23.86	<=34.77	Pass
			2	23.73	3.00	24.58	<=34.77	Pass
			3	23.44	3.00	24.29	<=34.77	Pass
		6	0	22.53	3.00	23.38	<=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	23.96	3.00	24.81	<=34.77	Pass
			7	24.03	3.00	24.88	<=34.77	Pass
			14	23.97	3.00	24.82	<=34.77	Pass
		8	0	23.78	3.00	24.63	<=34.77	Pass
			4	23.83	3.00	24.68	<=34.77	Pass
			7	23.76	3.00	24.61	<=34.77	Pass
		15	0	23.79	3.00	24.64	<=34.77	Pass
	707.5	1	0	24.26	3.00	25.11	<=34.77	Pass
			7	24.24	3.00	25.09	<=34.77	Pass
			14	24.24	3.00	25.09	<=34.77	Pass
		8	0	23.75	3.00	24.60	<=34.77	Pass
			4	23.74	3.00	24.59	<=34.77	Pass
			7	23.74	3.00	24.59	<=34.77	Pass
		15	0	23.77	3.00	24.62	<=34.77	Pass
	714.5	1	0	24.00	3.00	24.85	<=34.77	Pass
			7	24.40	3.00	25.25	<=34.77	Pass
			14	24.76	3.00	25.61	<=34.77	Pass
		8	0	23.82	3.00	24.67	<=34.77	Pass
			4	23.55	3.00	24.40	<=34.77	Pass
			7	23.79	3.00	24.64	<=34.77	Pass
		15	0	23.76	3.00	24.61	<=34.77	Pass
16QAM	700.5	1	0	23.65	3.00	24.50	<=34.77	Pass
			7	23.46	3.00	24.31	<=34.77	Pass
			14	22.84	3.00	23.69	<=34.77	Pass
		8	0	22.88	3.00	23.73	<=34.77	Pass
			4	22.88	3.00	23.73	<=34.77	Pass
			7	22.70	3.00	23.55	<=34.77	Pass
		15	0	22.80	3.00	23.65	<=34.77	Pass
	707.5	1	0	23.61	3.00	24.46	<=34.77	Pass
			7	23.89	3.00	24.74	<=34.77	Pass
			14	23.79	3.00	24.64	<=34.77	Pass
		8	0	22.51	3.00	23.36	<=34.77	Pass
			4	22.46	3.00	23.31	<=34.77	Pass
			7	23.16	3.00	24.01	<=34.77	Pass

64QAM	714.5	15	0	22.47	3.00	23.32	<=34.77	Pass	
		1	0	24.04	3.00	24.89	<=34.77	Pass	
			7	23.69	3.00	24.54	<=34.77	Pass	
			14	23.49	3.00	24.34	<=34.77	Pass	
			8	0	22.82	3.00	23.67	<=34.77	Pass
		4		22.62	3.00	23.47	<=34.77	Pass	
		7		22.81	3.00	23.66	<=34.77	Pass	
		15	0	22.80	3.00	23.65	<=34.77	Pass	
	700.5	1	0	23.57	3.00	24.42	<=34.77	Pass	
			7	23.66	3.00	24.51	<=34.77	Pass	
			14	23.57	3.00	24.42	<=34.77	Pass	
		8	0	22.80	3.00	23.65	<=34.77	Pass	
			4	22.81	3.00	23.66	<=34.77	Pass	
			7	22.89	3.00	23.74	<=34.77	Pass	
		15	0	22.62	3.00	23.47	<=34.77	Pass	
		707.5	1	0	23.40	3.00	24.25	<=34.77	Pass
				7	23.15	3.00	24.00	<=34.77	Pass
				14	23.91	3.00	24.76	<=34.77	Pass
	8		0	22.60	3.00	23.45	<=34.77	Pass	
			4	22.30	3.00	23.15	<=34.77	Pass	
			7	22.60	3.00	23.45	<=34.77	Pass	
	15		0	22.50	3.00	23.35	<=34.77	Pass	
	714.5	1	0	23.49	3.00	24.34	<=34.77	Pass	
			7	23.62	3.00	24.47	<=34.77	Pass	
			14	23.50	3.00	24.35	<=34.77	Pass	
		8	0	22.58	3.00	23.43	<=34.77	Pass	
			4	22.37	3.00	23.22	<=34.77	Pass	
			7	22.74	3.00	23.59	<=34.77	Pass	
		15	0	22.83	3.00	23.68	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	701.5	1	0	23.93	3.00	24.78	<=34.77	Pass	
			13	24.60	3.00	25.45	<=34.77	Pass	
			24	24.71	3.00	25.56	<=34.77	Pass	
		12	0	23.92	3.00	24.77	<=34.77	Pass	
			6	23.82	3.00	24.67	<=34.77	Pass	
			13	23.80	3.00	24.65	<=34.77	Pass	
		25	0	23.80	3.00	24.65	<=34.77	Pass	
		707.5	1	0	24.26	3.00	25.11	<=34.77	Pass
				13	24.54	3.00	25.39	<=34.77	Pass
	24			24.23	3.00	25.08	<=34.77	Pass	
	12		0	23.67	3.00	24.52	<=34.77	Pass	
			6	23.70	3.00	24.55	<=34.77	Pass	
			13	23.77	3.00	24.62	<=34.77	Pass	
	25	0	23.73	3.00	24.58	<=34.77	Pass		
	713.5	1	0	24.29	3.00	25.14	<=34.77	Pass	
			13	24.64	3.00	25.49	<=34.77	Pass	
			24	24.08	3.00	24.93	<=34.77	Pass	
		12	0	23.90	3.00	24.75	<=34.77	Pass	
			6	23.79	3.00	24.64	<=34.77	Pass	
			13	23.80	3.00	24.65	<=34.77	Pass	
		25	0	23.82	3.00	24.67	<=34.77	Pass	

16QAM	701.5	1	0	24.09	3.00	24.94	<=34.77	Pass	
			13	23.74	3.00	24.59	<=34.77	Pass	
			24	24.09	3.00	24.94	<=34.77	Pass	
		12	0	22.80	3.00	23.65	<=34.77	Pass	
			6	22.89	3.00	23.74	<=34.77	Pass	
			13	22.78	3.00	23.63	<=34.77	Pass	
		25	0	22.82	3.00	23.67	<=34.77	Pass	
		707.5	1	0	23.68	3.00	24.53	<=34.77	Pass
				13	24.44	3.00	25.29	<=34.77	Pass
	24			23.66	3.00	24.51	<=34.77	Pass	
	12		0	22.60	3.00	23.45	<=34.77	Pass	
			6	22.46	3.00	23.31	<=34.77	Pass	
			13	22.56	3.00	23.41	<=34.77	Pass	
	25		0	22.74	3.00	23.59	<=34.77	Pass	
	713.5		1	0	23.82	3.00	24.67	<=34.77	Pass
				13	23.69	3.00	24.54	<=34.77	Pass
		24		23.95	3.00	24.80	<=34.77	Pass	
		12	0	22.87	3.00	23.72	<=34.77	Pass	
			6	22.80	3.00	23.65	<=34.77	Pass	
			13	22.58	3.00	23.43	<=34.77	Pass	
		25	0	22.78	3.00	23.63	<=34.77	Pass	
64QAM		701.5	1	0	23.67	3.00	24.52	<=34.77	Pass
				13	23.81	3.00	24.66	<=34.77	Pass
	24			23.56	3.00	24.41	<=34.77	Pass	
	12		0	22.80	3.00	23.65	<=34.77	Pass	
			6	22.82	3.00	23.67	<=34.77	Pass	
			13	22.78	3.00	23.63	<=34.77	Pass	
	25		0	22.80	3.00	23.65	<=34.77	Pass	
	707.5		1	0	23.56	3.00	24.41	<=34.77	Pass
				13	22.91	3.00	23.76	<=34.77	Pass
		24		23.84	3.00	24.69	<=34.77	Pass	
		12	0	22.78	3.00	23.63	<=34.77	Pass	
			6	22.45	3.00	23.30	<=34.77	Pass	
			13	22.76	3.00	23.61	<=34.77	Pass	
		25	0	22.74	3.00	23.59	<=34.77	Pass	
		713.5	1	0	23.86	3.00	24.71	<=34.77	Pass
				13	23.83	3.00	24.68	<=34.77	Pass
	24			23.40	3.00	24.25	<=34.77	Pass	
	12		0	21.87	3.00	22.72	<=34.77	Pass	
			6	22.83	3.00	23.68	<=34.77	Pass	
			13	22.50	3.00	23.35	<=34.77	Pass	
	25		0	22.72	3.00	23.57	<=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	24.15	3.00	25.00	<=34.77	Pass
			25	24.37	3.00	25.22	<=34.77	Pass
			49	24.41	3.00	25.26	<=34.77	Pass
		25	0	23.71	3.00	24.56	<=34.77	Pass
			13	23.89	3.00	24.74	<=34.77	Pass
			25	23.78	3.00	24.63	<=34.77	Pass
		50	0	23.81	3.00	24.66	<=34.77	Pass
	707.5	1	0	24.32	3.00	25.17	<=34.77	Pass

			25	24.32	3.00	25.17	<=34.77	Pass		
			49	24.18	3.00	25.03	<=34.77	Pass		
			25	0	23.81	3.00	24.66	<=34.77	Pass	
				13	23.36	3.00	24.21	<=34.77	Pass	
				25	23.66	3.00	24.51	<=34.77	Pass	
		50	0	23.68	3.00	24.53	<=34.77	Pass		
		711	1	0	24.04	3.00	24.89	<=34.77	Pass	
				25	24.15	3.00	25.00	<=34.77	Pass	
				49	24.19	3.00	25.04	<=34.77	Pass	
			25	0	23.81	3.00	24.66	<=34.77	Pass	
	13			23.73	3.00	24.58	<=34.77	Pass		
	25	23.70		3.00	24.55	<=34.77	Pass			
	50	0	23.73	3.00	24.58	<=34.77	Pass			
	16QAM	704	1	0	24.07	3.00	24.92	<=34.77	Pass	
				25	23.73	3.00	24.58	<=34.77	Pass	
49				23.55	3.00	24.40	<=34.77	Pass		
25			0	22.62	3.00	23.47	<=34.77	Pass		
			13	22.87	3.00	23.72	<=34.77	Pass		
			25	22.75	3.00	23.60	<=34.77	Pass		
50			0	22.82	3.00	23.67	<=34.77	Pass		
707.5			1	0	23.63	3.00	24.48	<=34.77	Pass	
				25	23.92	3.00	24.77	<=34.77	Pass	
		49		23.64	3.00	24.49	<=34.77	Pass		
		25	0	22.82	3.00	23.67	<=34.77	Pass		
			13	22.61	3.00	23.46	<=34.77	Pass		
			25	22.66	3.00	23.51	<=34.77	Pass		
		50	0	22.65	3.00	23.50	<=34.77	Pass		
		711	1	0	23.77	3.00	24.62	<=34.77	Pass	
				25	24.07	3.00	24.92	<=34.77	Pass	
49				23.35	3.00	24.20	<=34.77	Pass		
25			0	22.44	3.00	23.29	<=34.77	Pass		
			13	22.62	3.00	23.47	<=34.77	Pass		
			25	22.71	3.00	23.56	<=34.77	Pass		
50			0	22.73	3.00	23.58	<=34.77	Pass		
64QAM			704	1	0	23.75	3.00	24.60	<=34.77	Pass
					25	23.55	3.00	24.40	<=34.77	Pass
		49			23.77	3.00	24.62	<=34.77	Pass	
		25		0	22.74	3.00	23.59	<=34.77	Pass	
				13	22.88	3.00	23.73	<=34.77	Pass	
				25	22.88	3.00	23.73	<=34.77	Pass	
	50	0		22.79	3.00	23.64	<=34.77	Pass		
	707.5	1		0	23.81	3.00	24.66	<=34.77	Pass	
				25	23.50	3.00	24.35	<=34.77	Pass	
			49	23.74	3.00	24.59	<=34.77	Pass		
		25	0	22.50	3.00	23.35	<=34.77	Pass		
			13	22.71	3.00	23.56	<=34.77	Pass		
			25	22.64	3.00	23.49	<=34.77	Pass		
		50	0	22.71	3.00	23.56	<=34.77	Pass		
		711	1	0	23.64	3.00	24.49	<=34.77	Pass	
				25	23.77	3.00	24.62	<=34.77	Pass	
	49			23.43	3.00	24.28	<=34.77	Pass		
	25		0	22.88	3.00	23.73	<=34.77	Pass		
			13	22.41	3.00	23.26	<=34.77	Pass		
			25	22.57	3.00	23.42	<=34.77	Pass		
	50		0	22.71	3.00	23.56	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	707.5	50	0	20	LV	-1.700	-0.0024	-2.5 to 2.5	Pass
					HV	0.300	0.0004	-2.5 to 2.5	Pass
					NV	-1.400	-0.0020	-2.5 to 2.5	Pass
				-30	NV	-1.600	-0.0023	-2.5 to 2.5	Pass
				-20	NV	-1.100	-0.0016	-2.5 to 2.5	Pass
				-10	NV	-1.400	-0.0020	-2.5 to 2.5	Pass
				0	NV	-1.600	-0.0023	-2.5 to 2.5	Pass
				10	NV	-0.800	-0.0011	-2.5 to 2.5	Pass
				30	NV	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	NV	-1.300	-0.0018	-2.5 to 2.5	Pass
				50	NV	-0.600	-0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

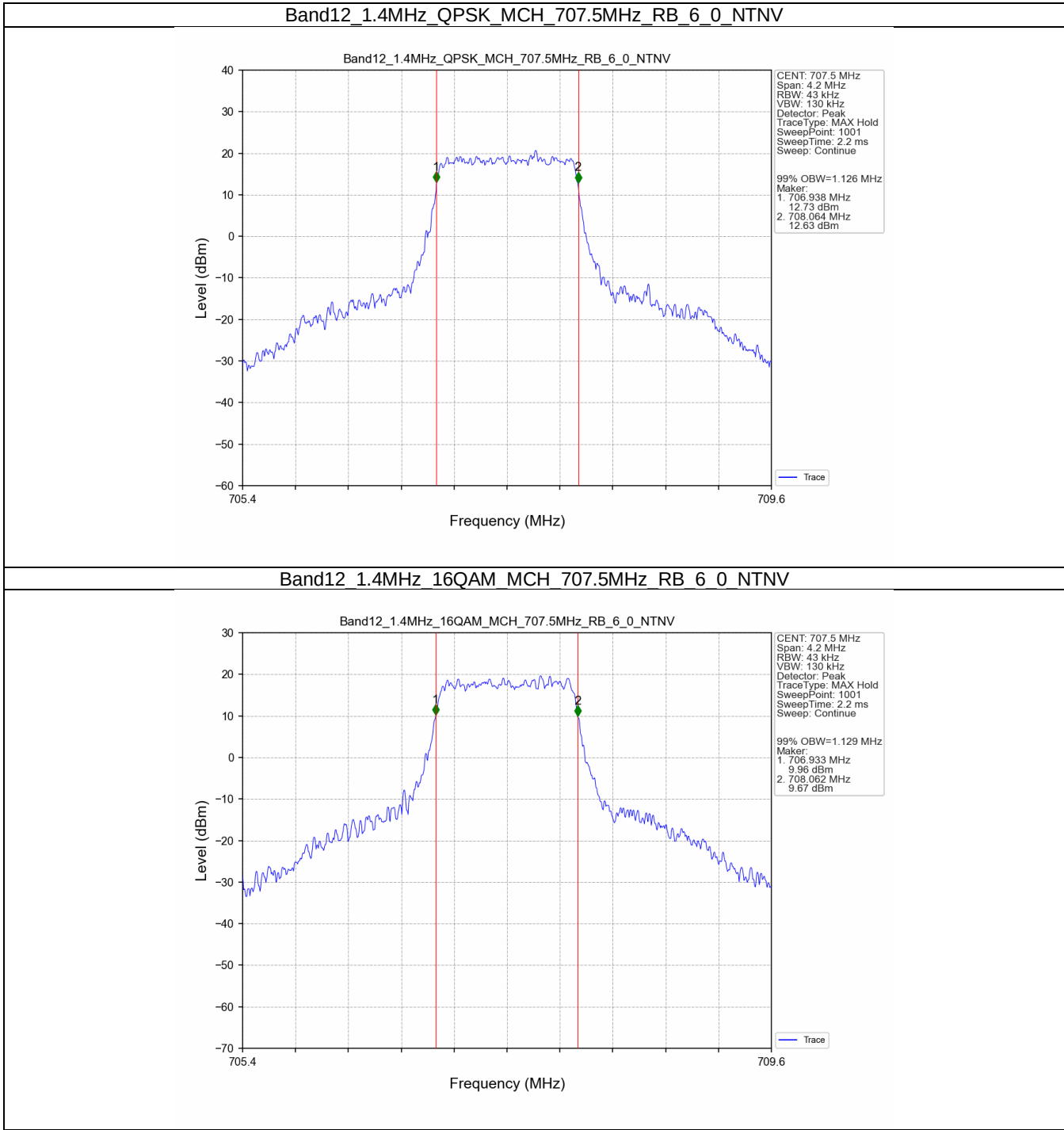
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.126	/	Pass
	16QAM	707.5	6	0	1.129	/	Pass
3	QPSK	707.5	15	0	2.745	/	Pass
	16QAM	707.5	15	0	2.755	/	Pass
5	QPSK	707.5	25	0	4.550	/	Pass
	16QAM	707.5	25	0	4.543	/	Pass
10	QPSK	707.5	50	0	9.089	/	Pass
	16QAM	707.5	50	0	9.076	/	Pass

3.1.2 Band12_XDB

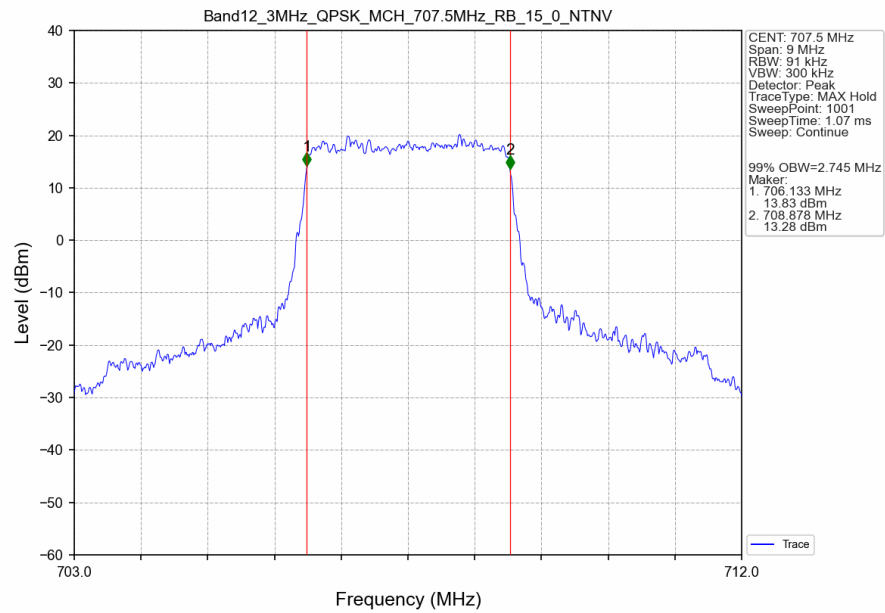
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	707.5	6	0	1.364	/	Pass
	16QAM	707.5	6	0	1.428	/	Pass
3	QPSK	707.5	15	0	3.129	/	Pass
	16QAM	707.5	15	0	3.103	/	Pass
5	QPSK	707.5	25	0	5.268	/	Pass
	16QAM	707.5	25	0	5.153	/	Pass
10	QPSK	707.5	50	0	10.337	/	Pass
	16QAM	707.5	50	0	10.245	/	Pass

3.2 Test Graph

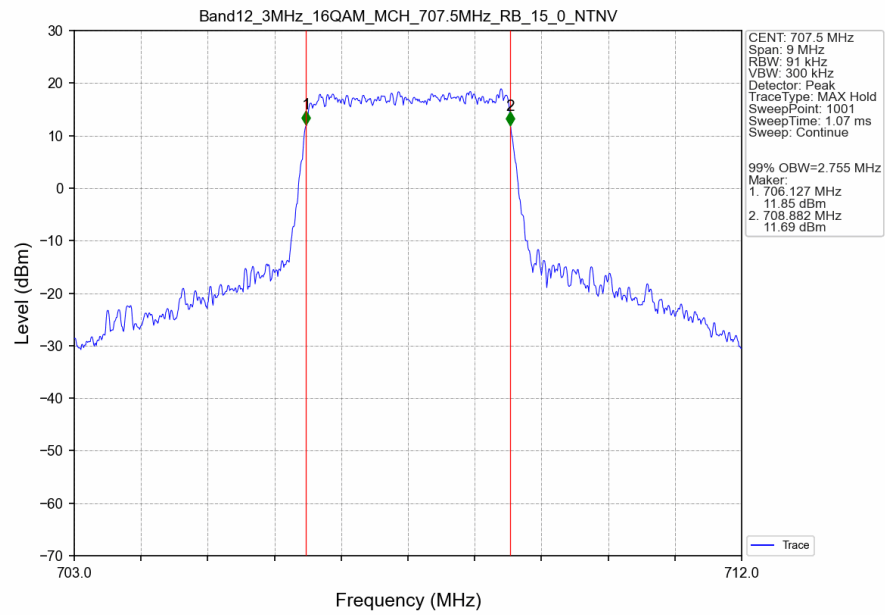
3.2.1 Band12_OBW



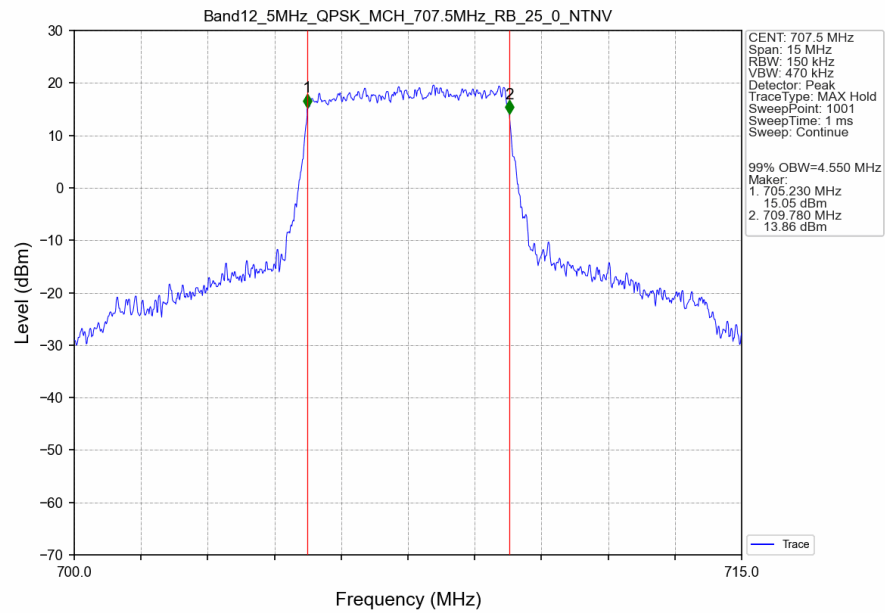
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTNV



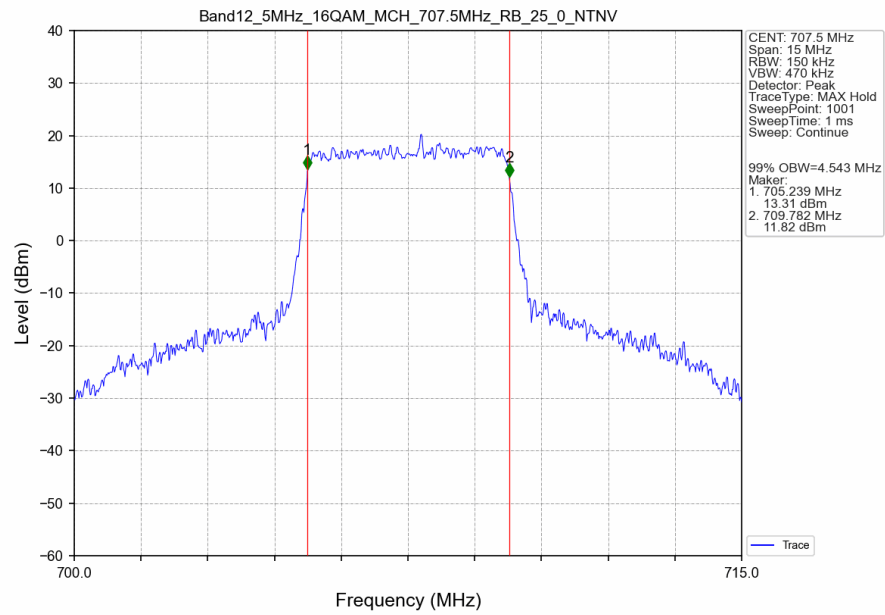
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



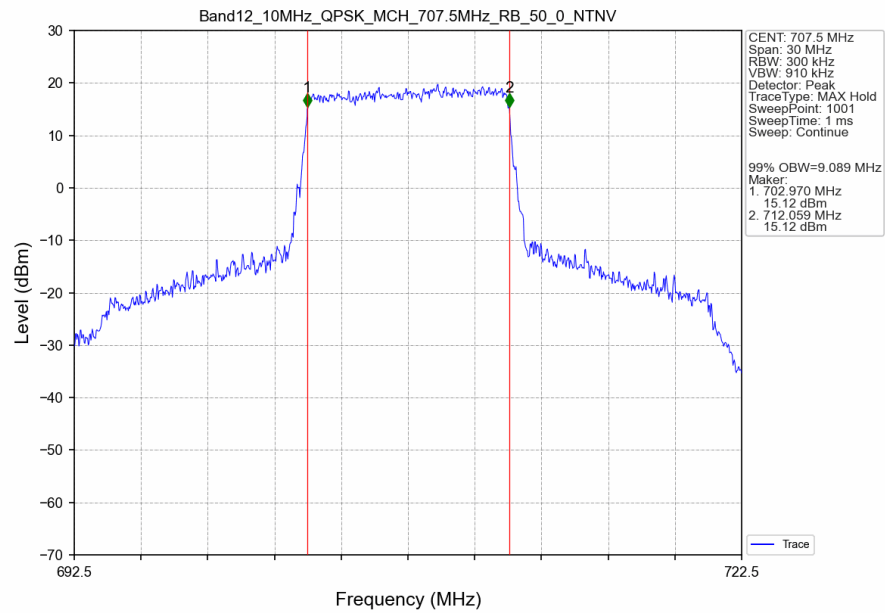
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



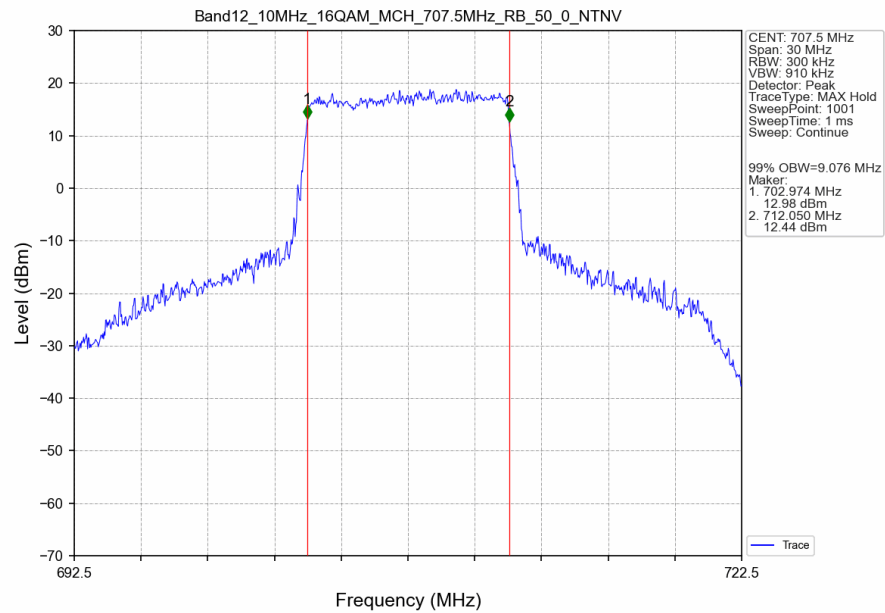
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTV

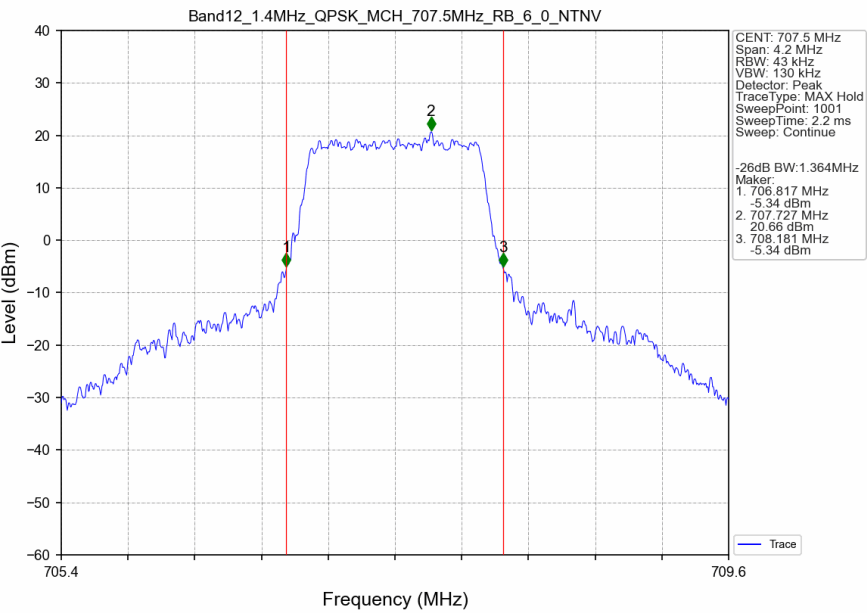


Band12 10MHz 16QAM MCH 707.5MHz RB 50 0 NTV

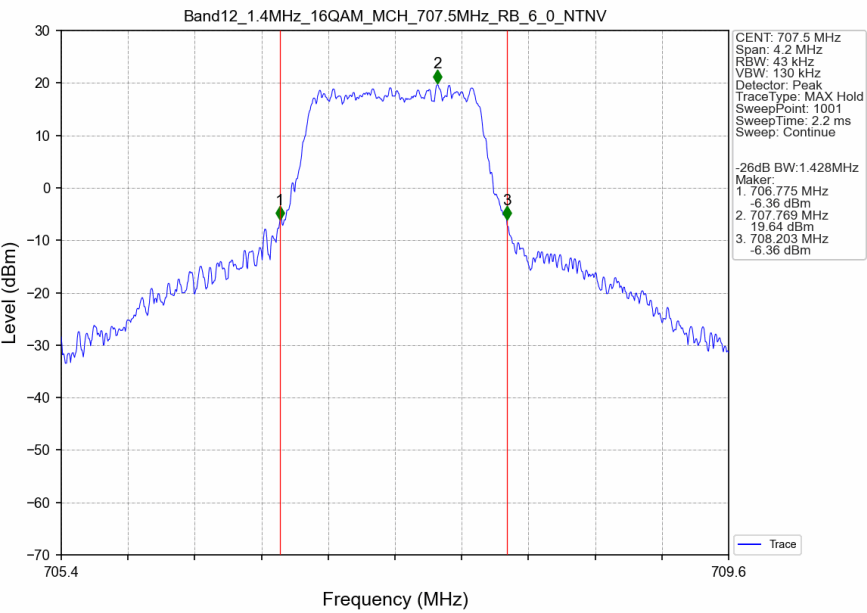


3.2.2 Band12_XDB

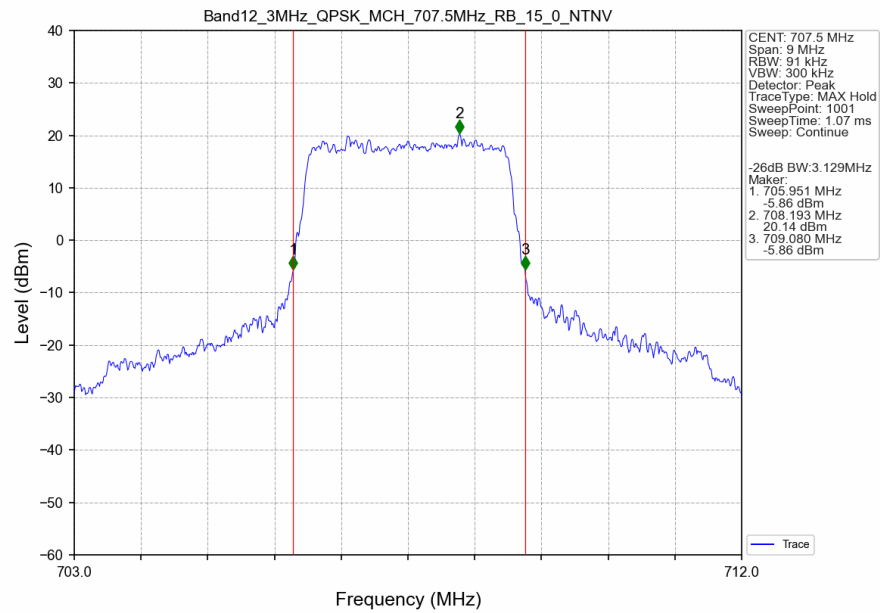
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



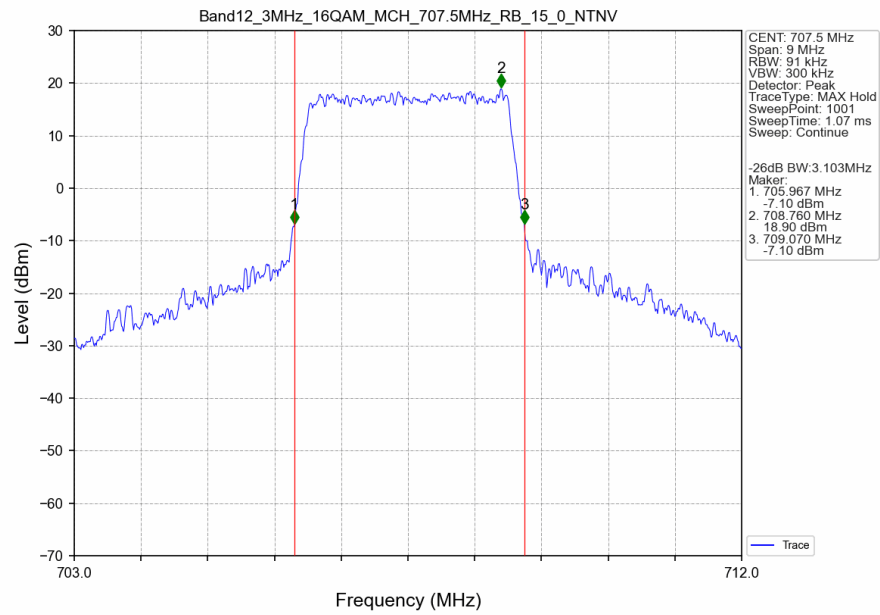
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



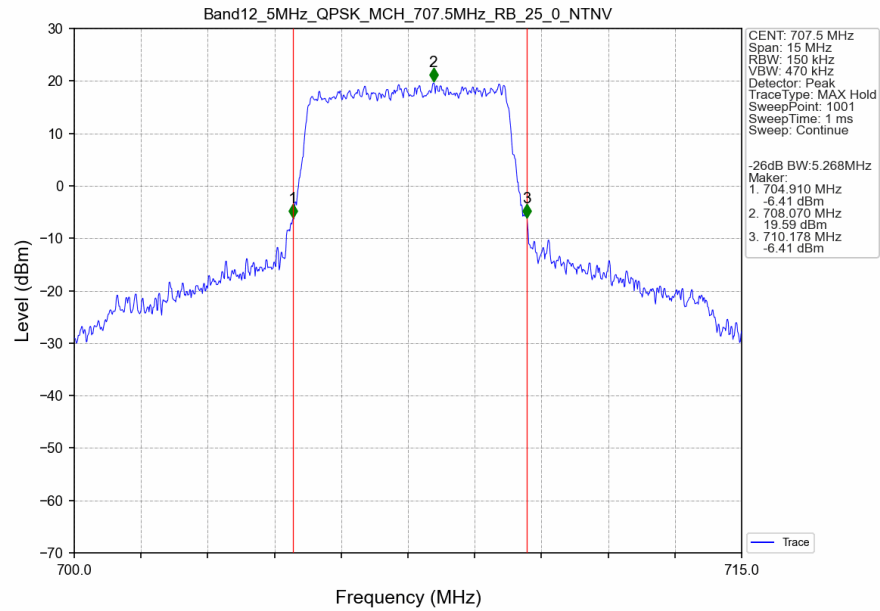
Band12 3MHz QPSK MCH 707.5MHz RB 15 0 NTV



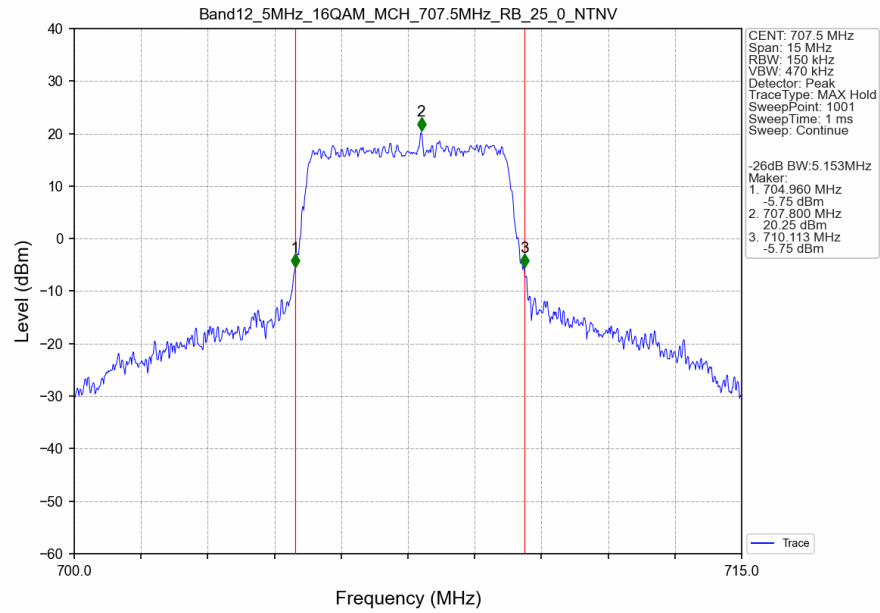
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTV



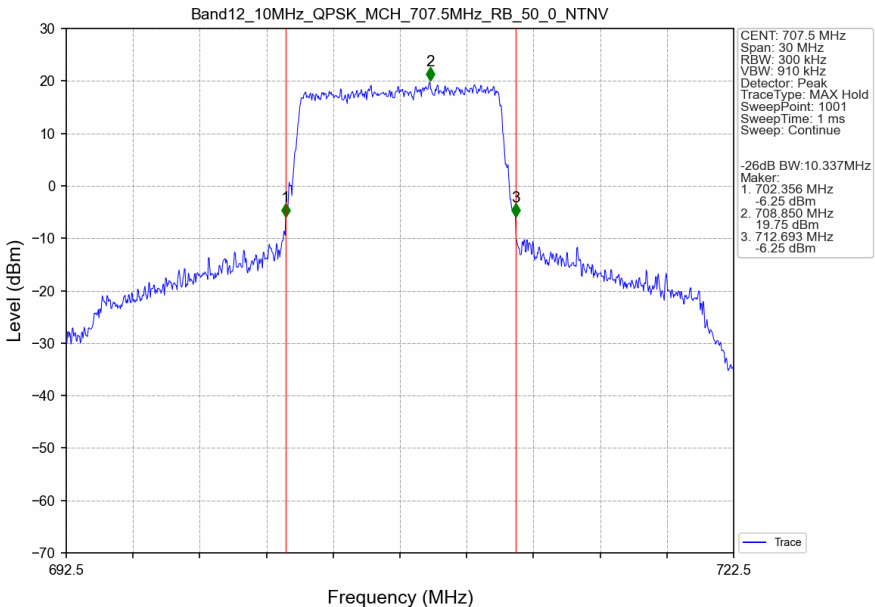
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



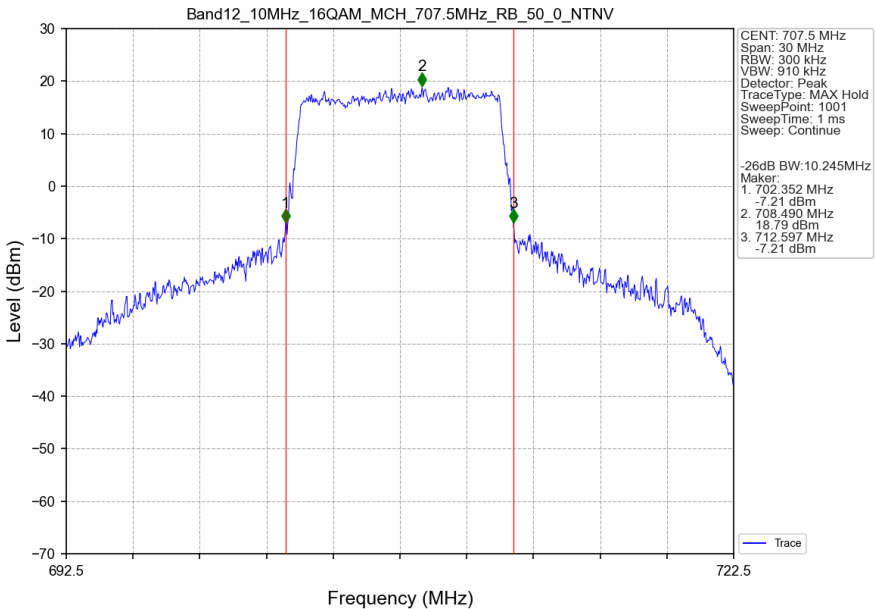
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTNV



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



4. Peak-Average Ratio

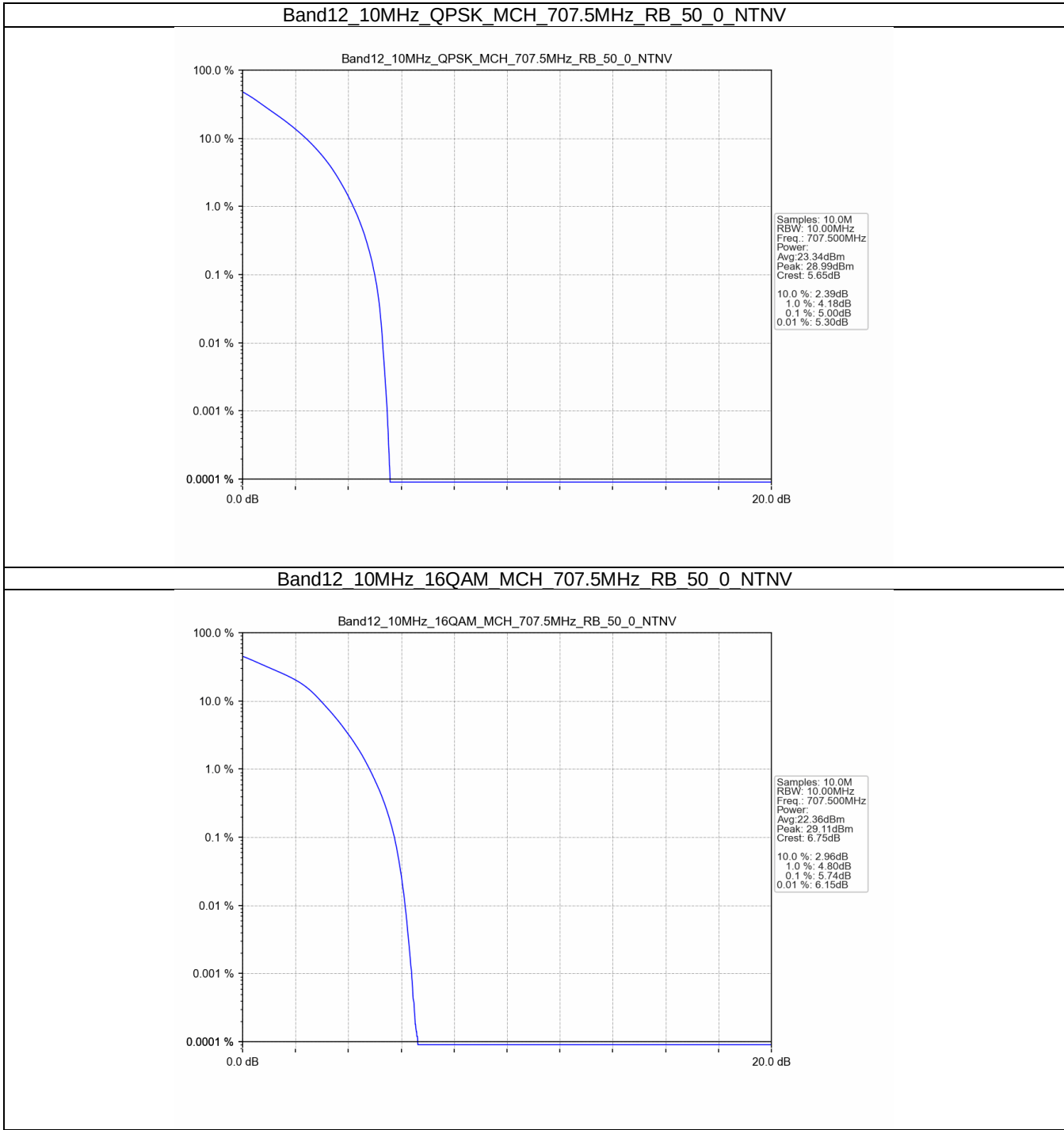
4.1 Test Result

4.1.1 B12_10MHz

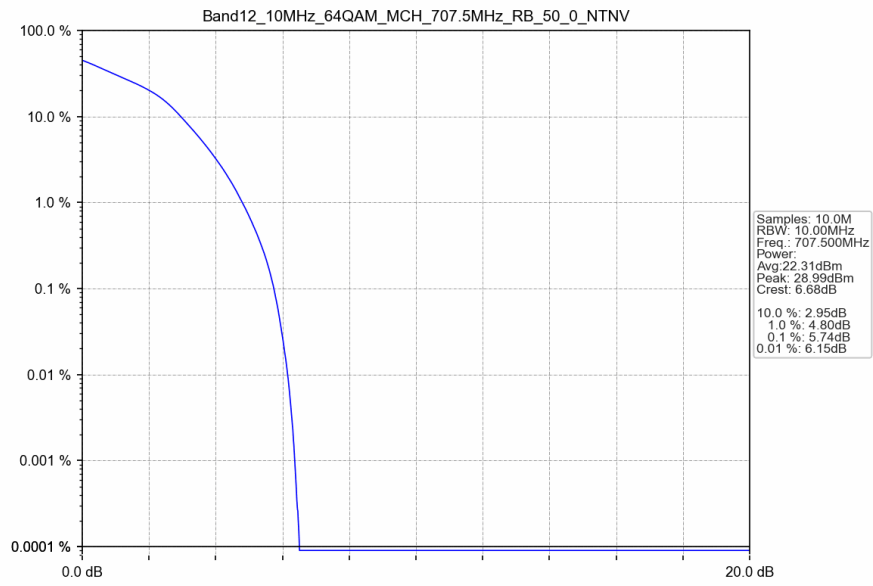
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	5.00	<=13	Pass
16QAM	707.5	50	0	5.74	<=13	Pass
64QAM	707.5	50	0	5.74	<=13	Pass

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	
	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

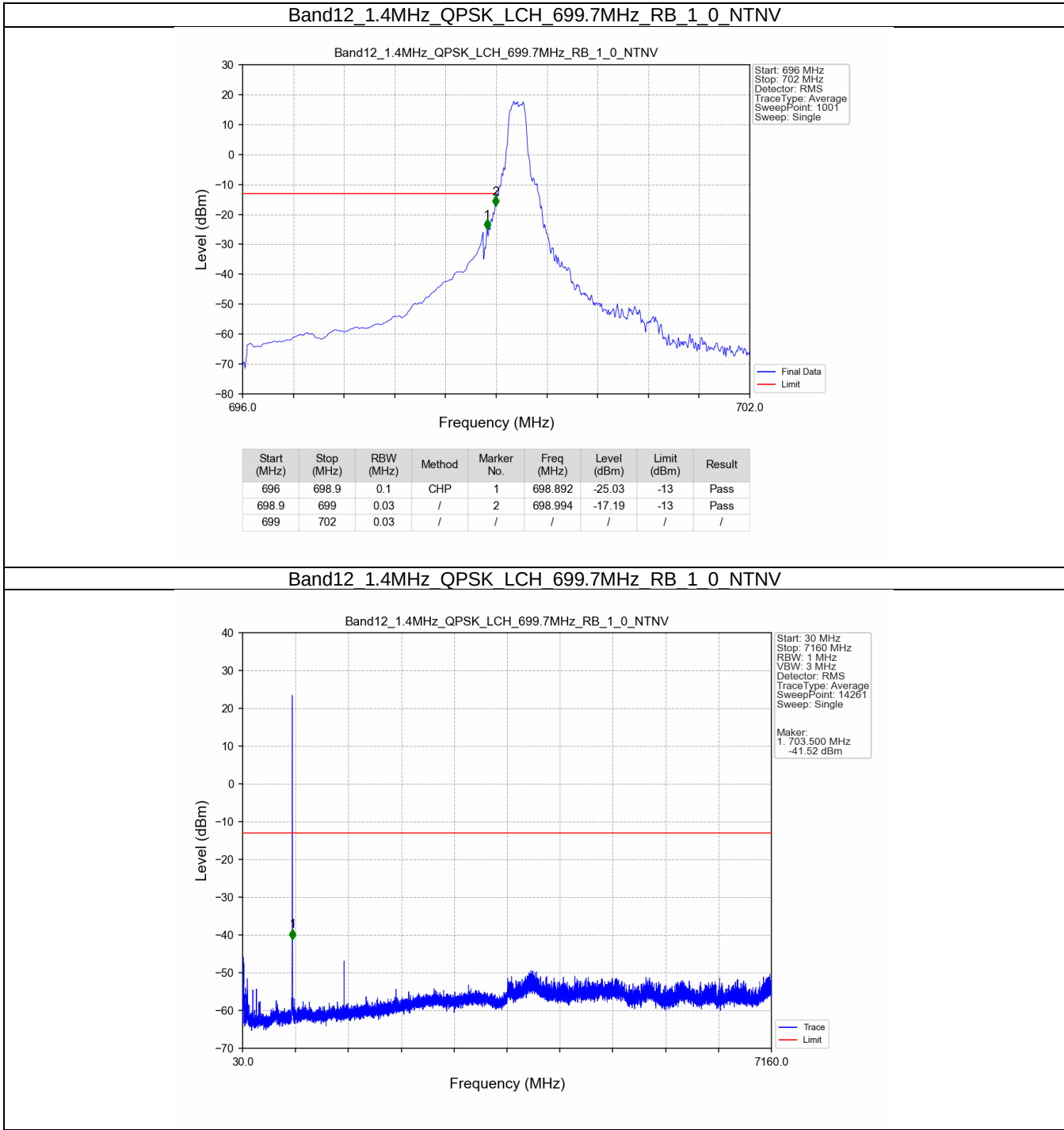
Band: 12 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B12_10MHz

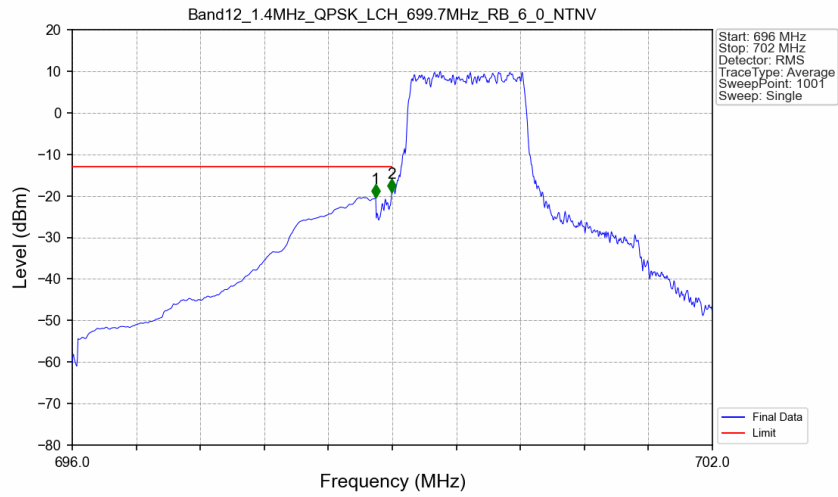
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test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

5.2 Test Graph

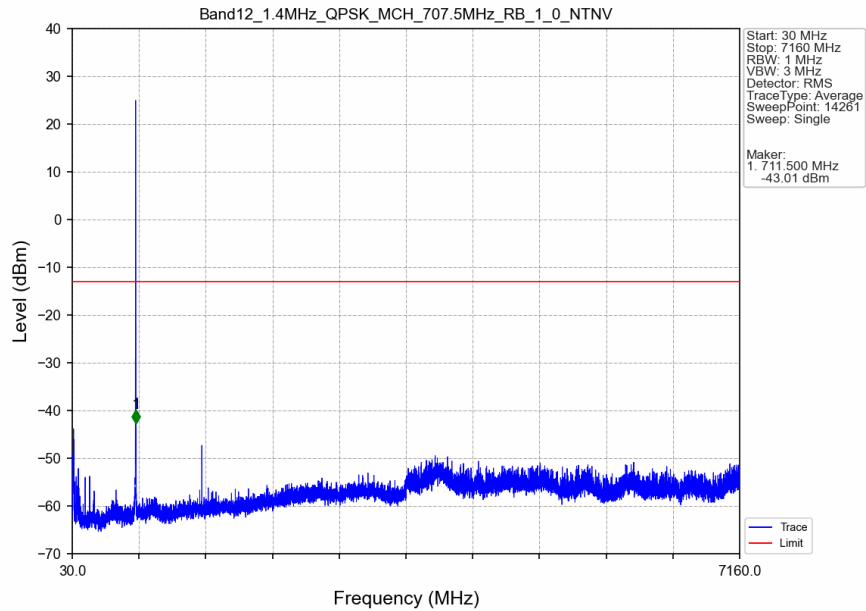
5.2.1 B12_1.4MHz



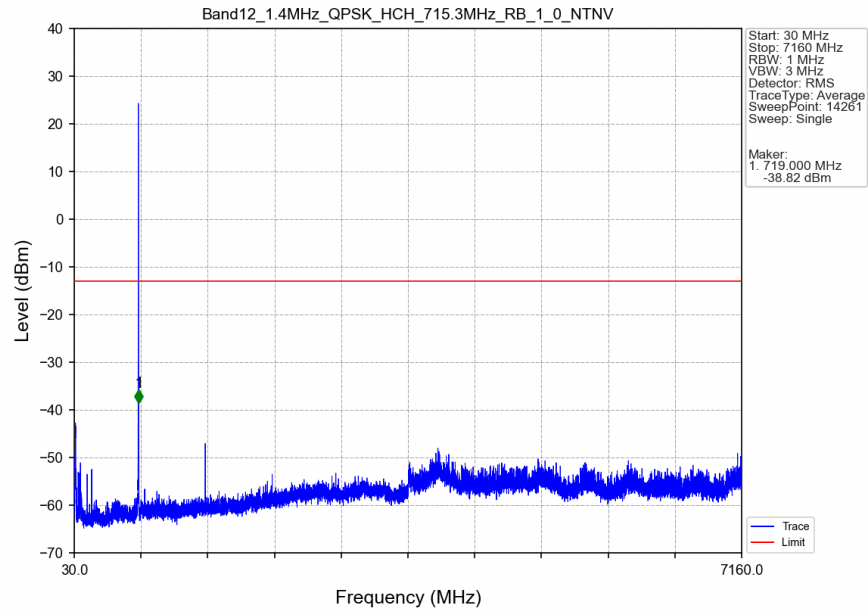
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV



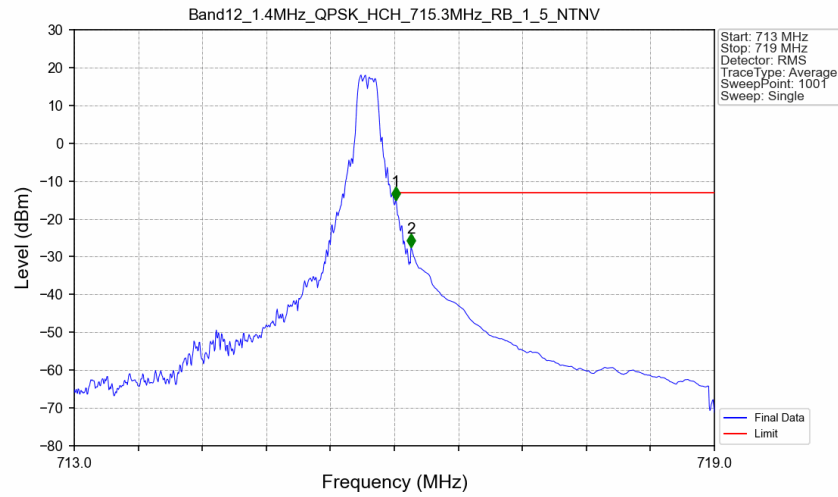
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTV

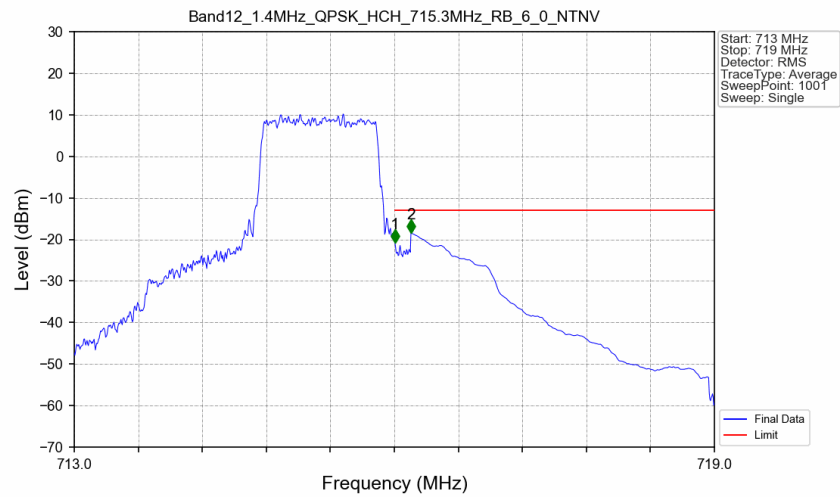


Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTV



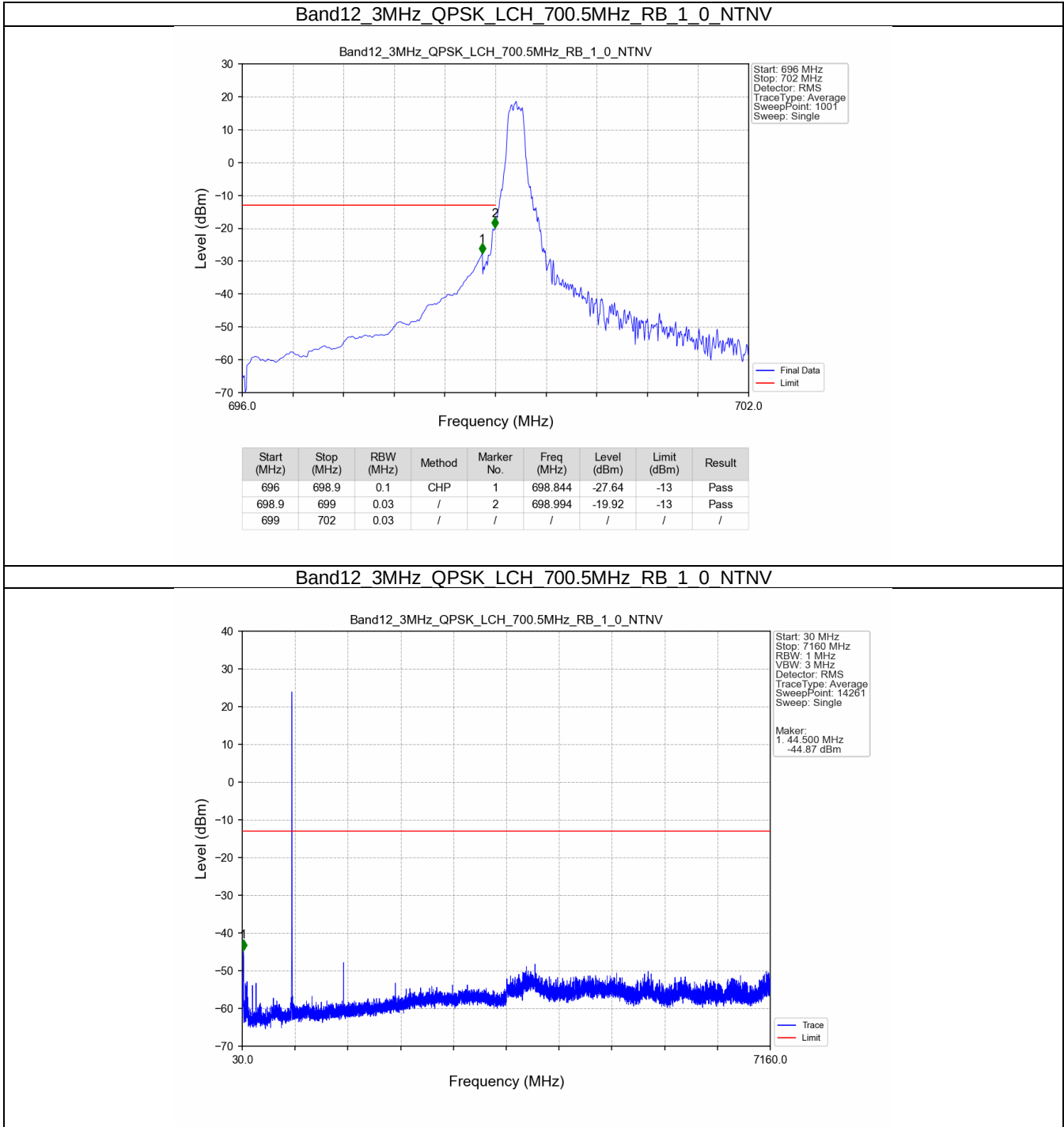
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-15.11	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.41	-13	Pass

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV

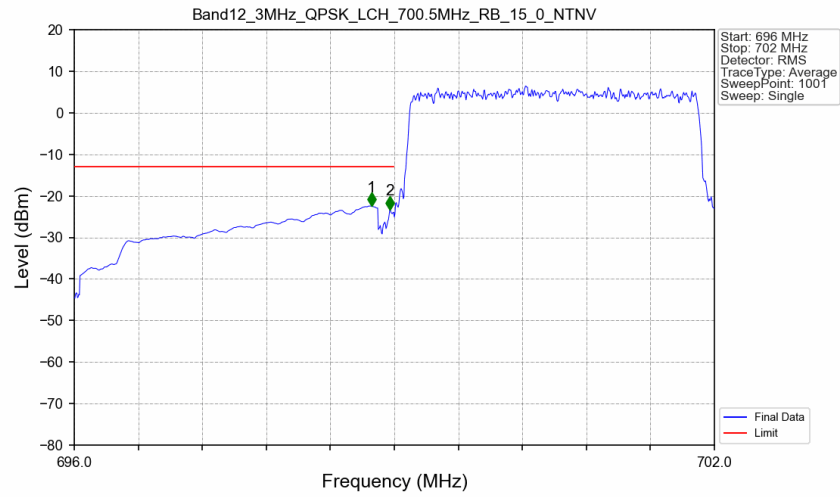


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-20.84	-13	Pass
716.1	719	0.1	CHP	2	716.156	-18.41	-13	Pass

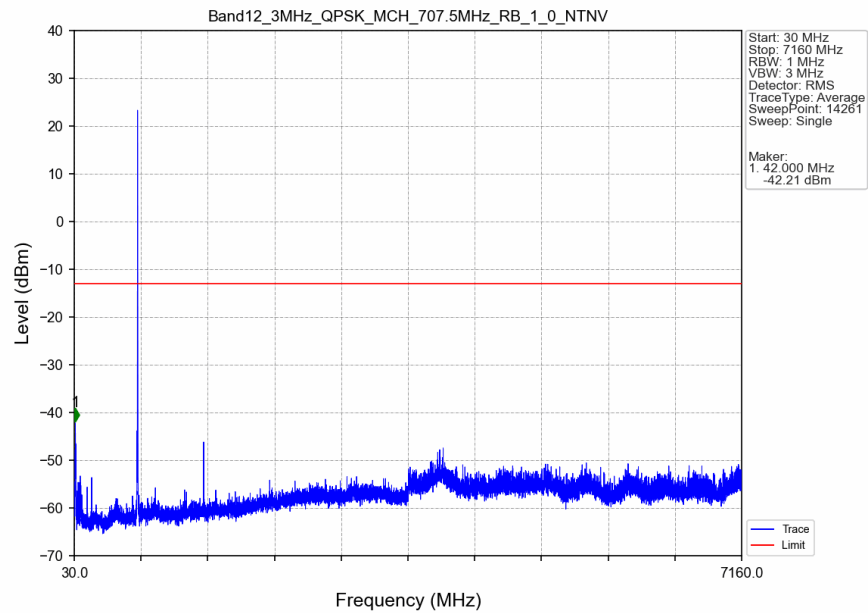
5.2.2 B12_3MHz



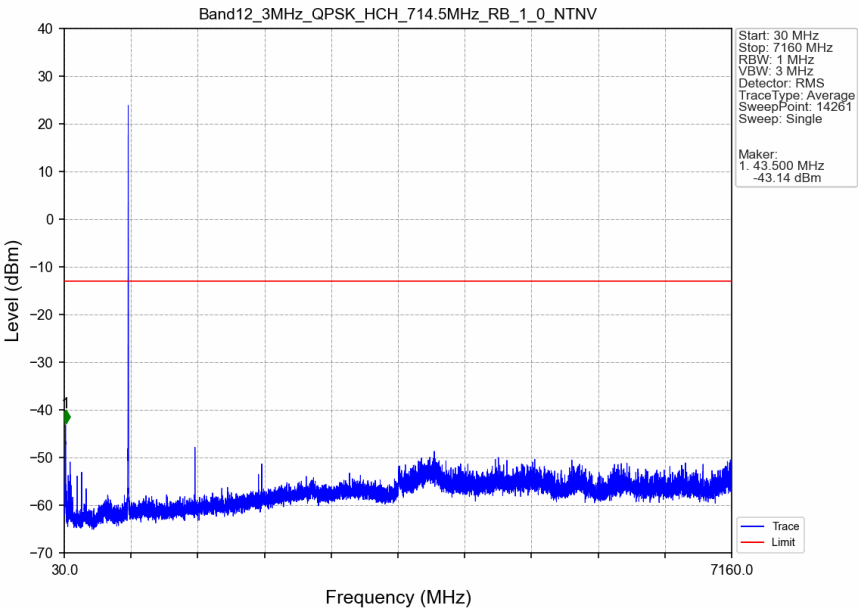
Band12 3MHz QPSK LCH 700.5MHz RB 15 0 NTNV



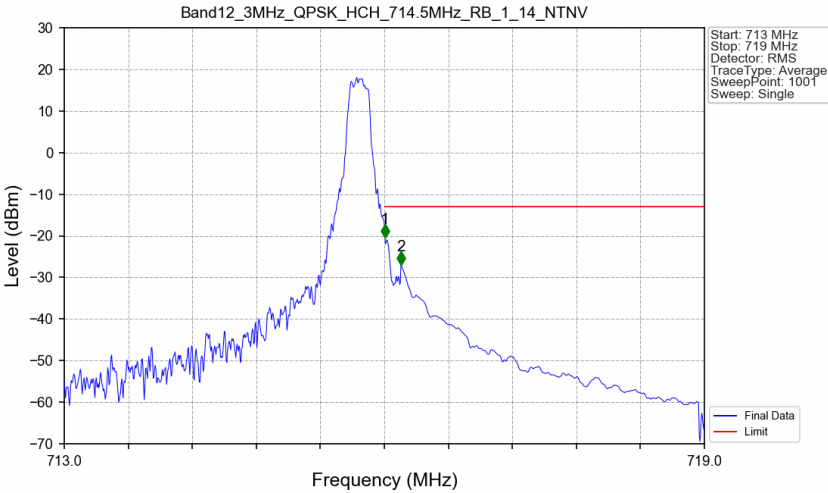
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTNV

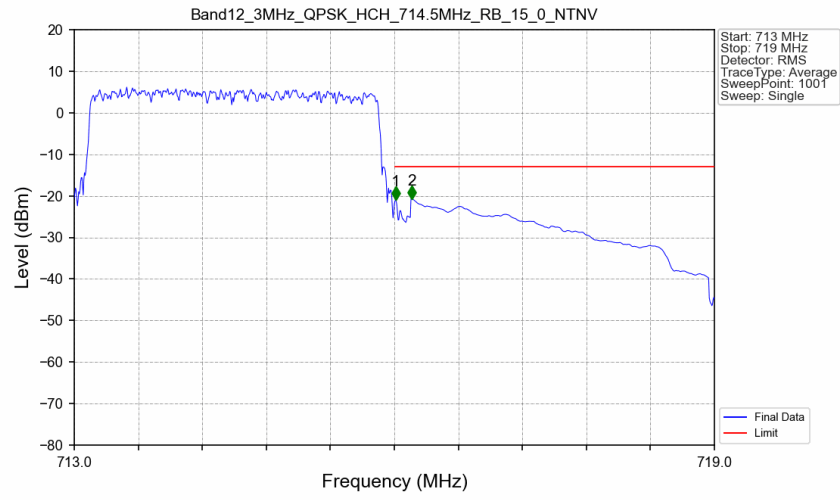


Band12 3MHz QPSK HCH 714.5MHz RB 1 14 NTNV



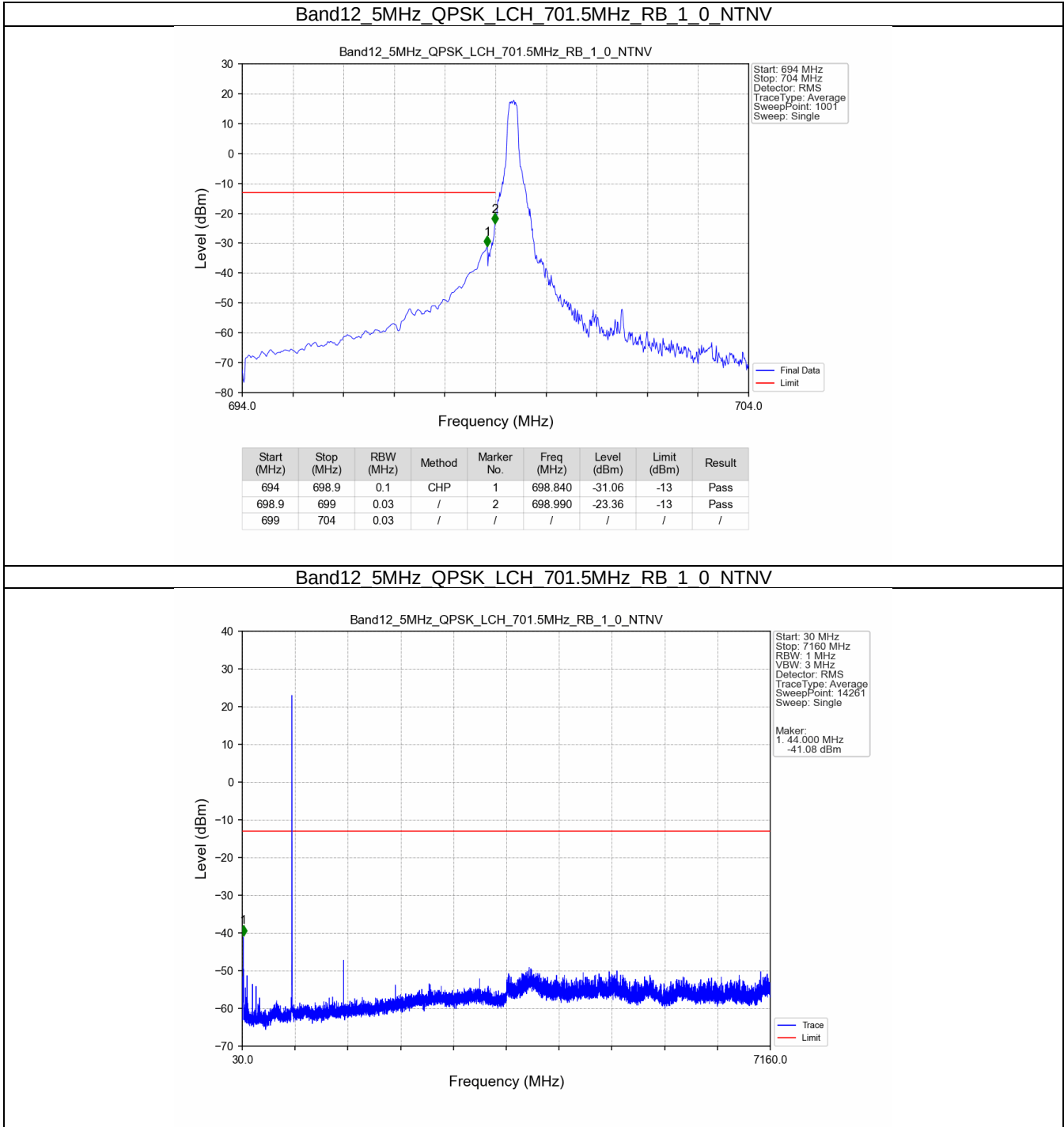
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-20.41	-13	Pass
716.1	719	0.1	CHP	2	716.156	-27.04	-13	Pass

Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV

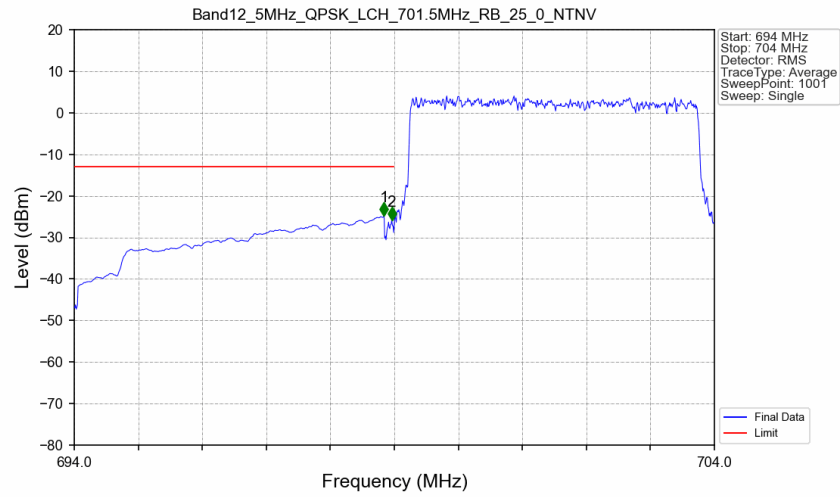


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-21.01	-13	Pass
716.1	719	0.1	CHP	2	716.162	-20.71	-13	Pass

5.2.3 B12_5MHz

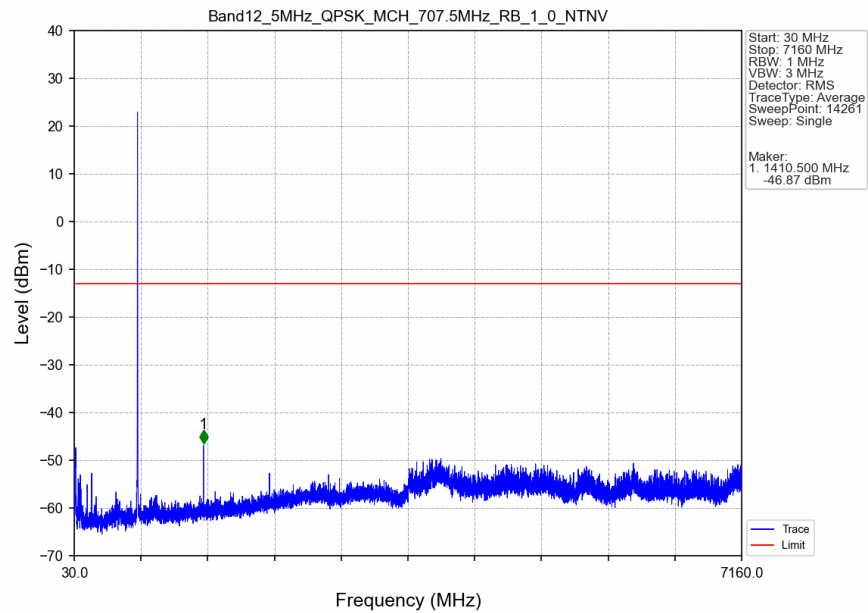


Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV

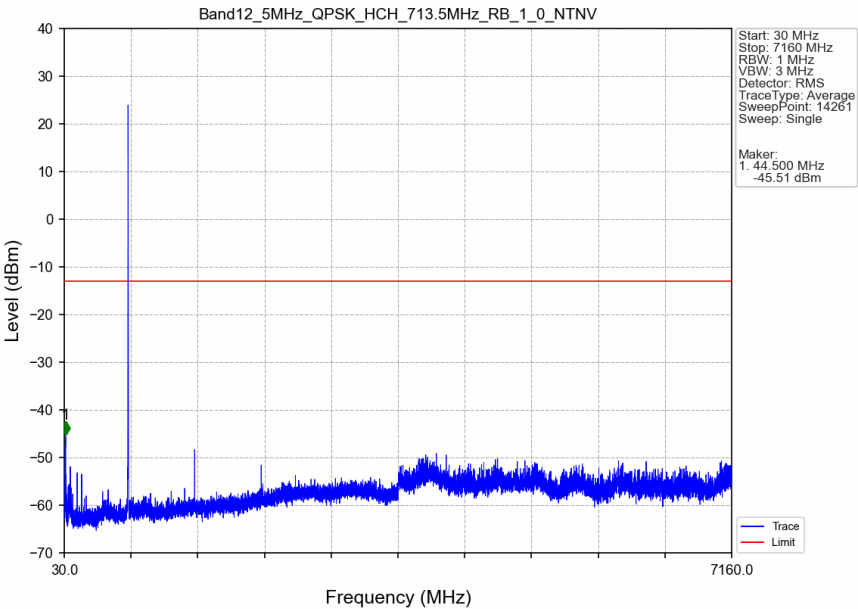


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-24.78	-13	Pass
698.9	699	0.03	/	2	698.960	-25.77	-13	Pass
699	704	0.03	/	/	/	/	/	/

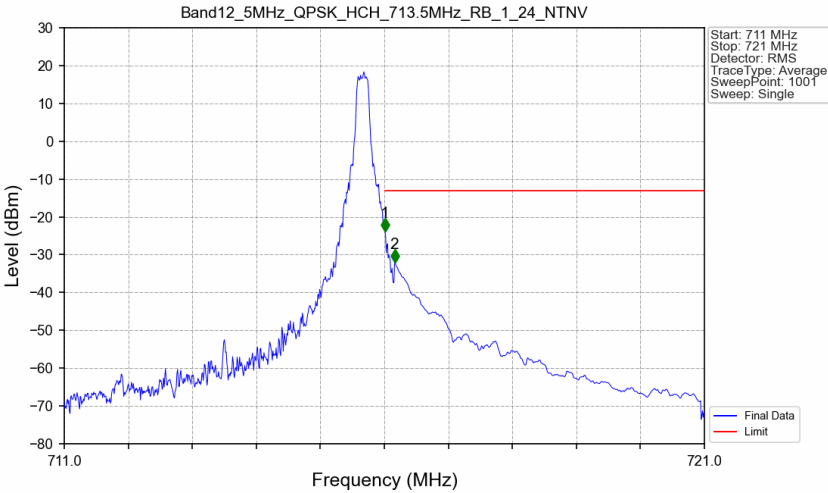
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTNV

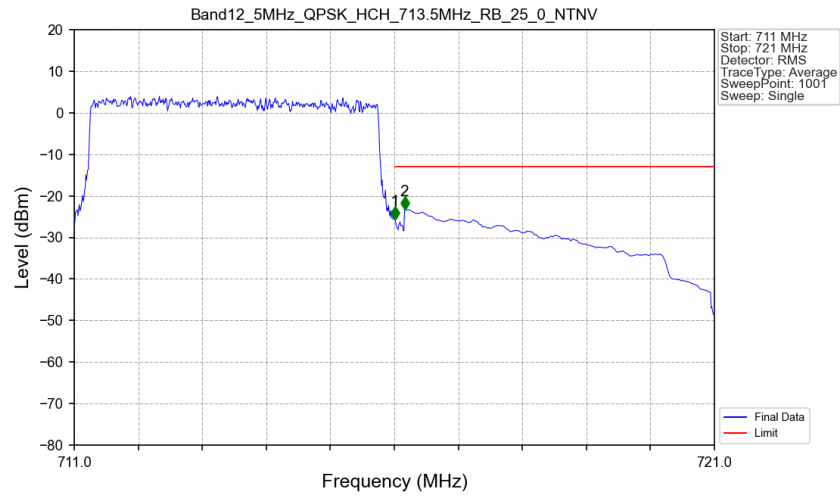


Band12 5MHz QPSK HCH 713.5MHz RB 1 24 NTNV



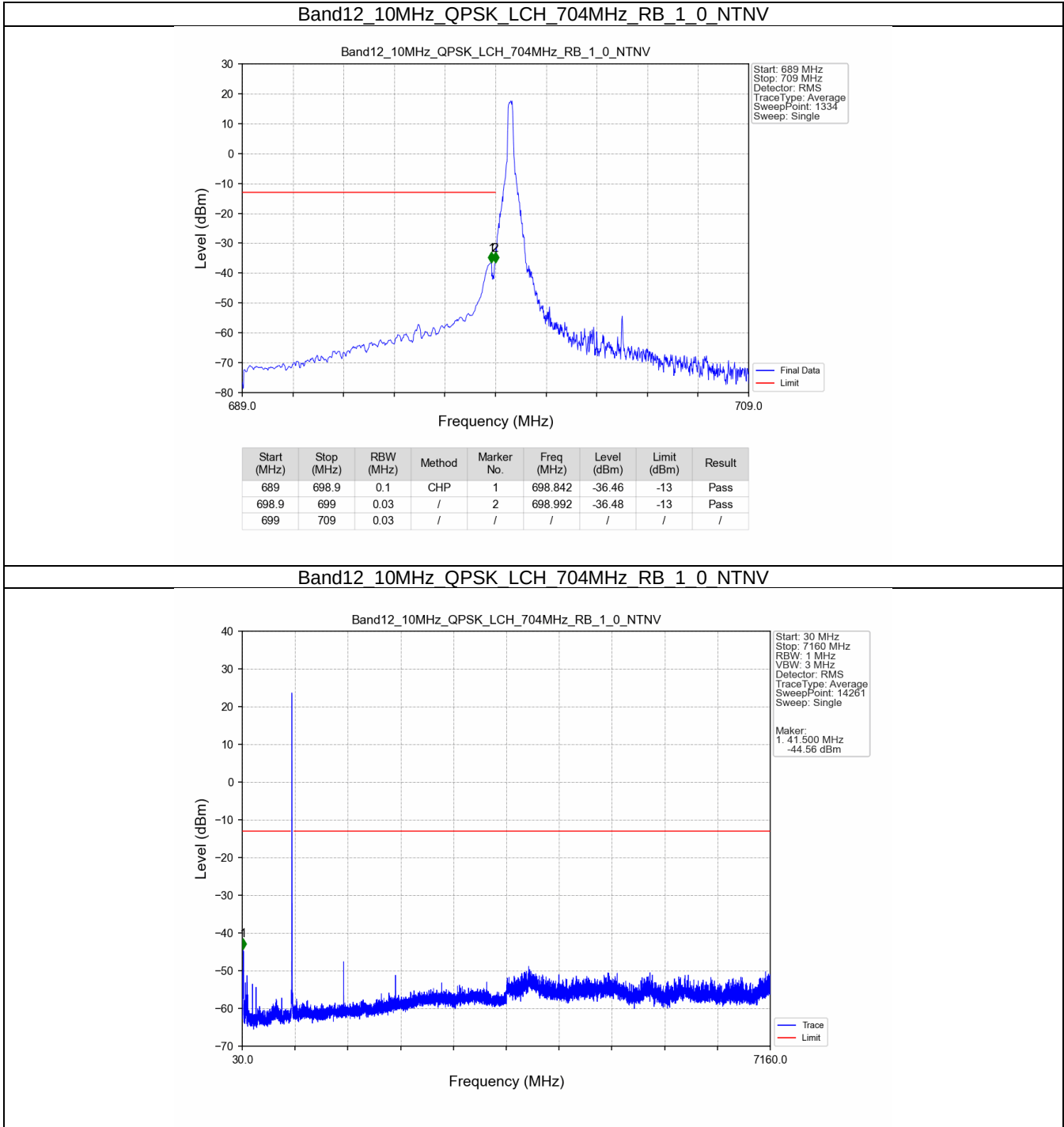
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-23.78	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.97	-13	Pass

Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTN

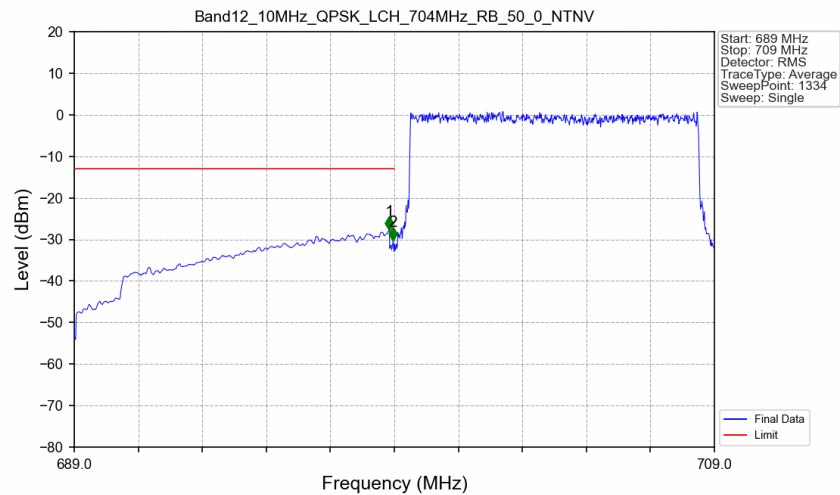


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-25.75	-13	Pass
716.1	721	0.1	CHP	2	716.160	-23.28	-13	Pass

5.2.4 B12_10MHz

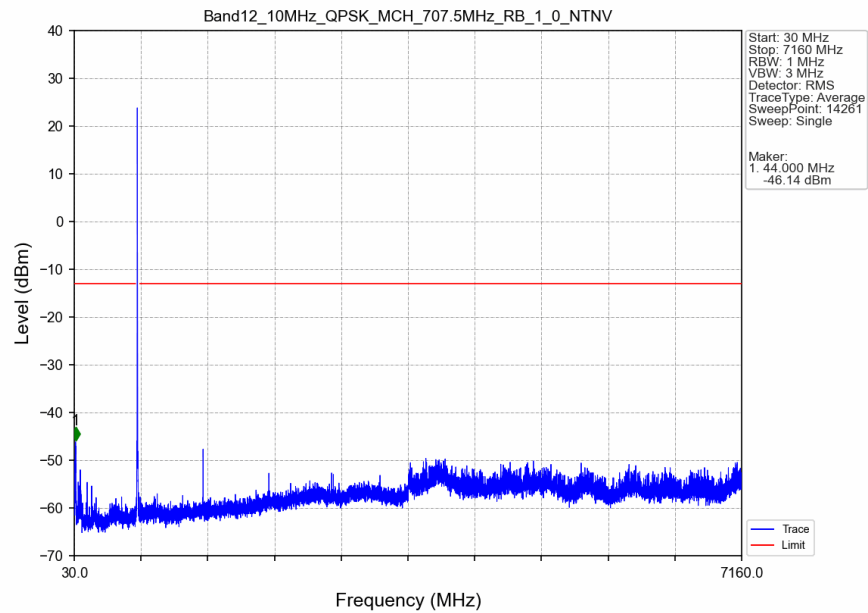


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

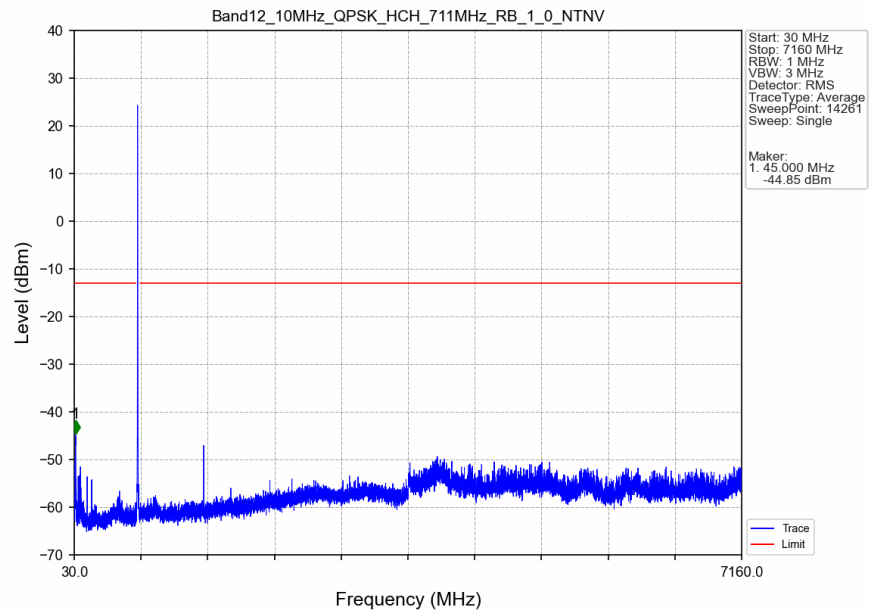


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-27.62	-13	Pass
698.9	699	0.03	/	2	698.962	-30.30	-13	Pass
699	709	0.03	/	/	/	/	/	/

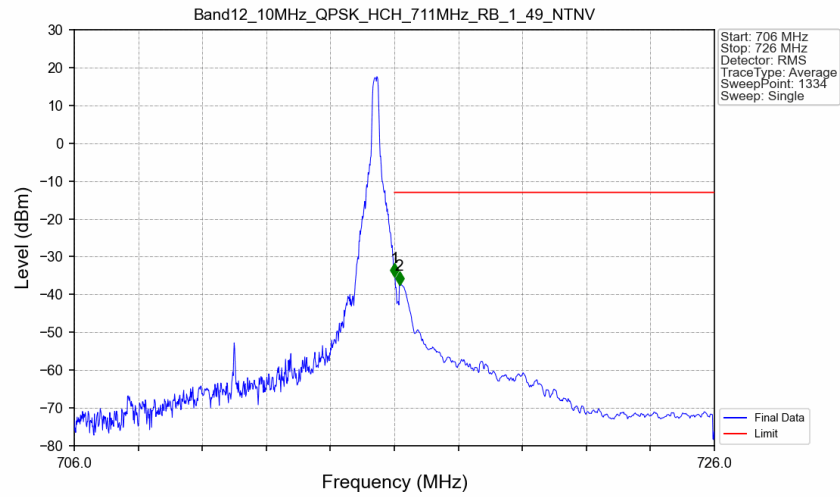
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12 10MHz QPSK HCH 711MHz RB 1 0 NTN

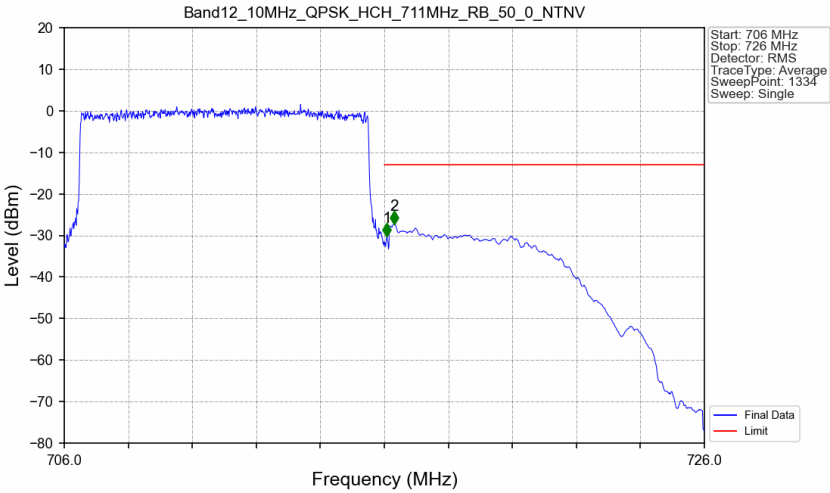


Band12 10MHz QPSK HCH 711MHz RB 1 49 NTN



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	-35.21	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.36	-13	Pass

Band12 10MHz QPSK HCH 711MHz RB 50 0 NTV



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	716.083	-30.20	-13	Pass
716.1	726	0.1	CHP	2	716.308	-27.36	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-56.81	-13	-43.81	-59.58	2.47	5.24	Horizontal	Pass
2098.5	-70.07	-13	-57.07	-72.14	2.79	4.86	Horizontal	Pass
2798.0	-66.01	-13	-53.01	-69.37	3.12	6.48	Horizontal	Pass
1399.0	-54.37	-13	-41.37	-57.14	2.47	5.24	Vertical	Pass
2098.5	-64.65	-13	-51.65	-66.72	2.79	4.86	Vertical	Pass
2798.0	-65.58	-13	-52.58	-68.94	3.12	6.48	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-58.18	-13	-45.18	-60.98	2.48	5.28	Horizontal	Pass
2109.0	-69.9	-13	-56.9	-71.98	2.8	4.88	Horizontal	Pass
2812.0	-64.35	-13	-51.35	-67.74	3.12	6.51	Horizontal	Pass
1406.0	-54.88	-13	-41.88	-57.68	2.48	5.28	Vertical	Pass
2109.0	-69.83	-13	-56.83	-71.91	2.8	4.88	Vertical	Pass
2812.0	-65.35	-13	-52.35	-68.74	3.12	6.51	Vertical	Pass

LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-59.33	-13	-46.33	-62.17	2.49	5.33	Horizontal	Pass
2119.5	-69.83	-13	-56.83	-71.93	2.81	4.91	Horizontal	Pass
2826.0	-66.21	-13	-53.21	-69.62	3.13	6.54	Horizontal	Pass
1413.0	-56.91	-13	-43.91	-59.75	2.49	5.33	Vertical	Pass
2119.5	-69.93	-13	-56.93	-72.03	2.81	4.91	Vertical	Pass
2826.0	-66.27	-13	-53.27	-69.68	3.13	6.54	Vertical	Pass