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	23.73	-0.72	20.86	<=34.77	Pass
			2	23.71	-0.72	20.84	<=34.77	Pass
			5	23.80	-0.72	20.93	<=34.77	Pass
		3	0	23.87	-0.72	21.00	<=34.77	Pass
			2	23.80	-0.72	20.93	<=34.77	Pass
			3	23.71	-0.72	20.84	<=34.77	Pass
		6	0	22.82	-0.72	19.95	<=34.77	Pass
	707.5	1	0	24.13	-0.72	21.26	<=34.77	Pass
			2	23.72	-0.72	20.85	<=34.77	Pass
			5	23.73	-0.72	20.86	<=34.77	Pass
		3	0	23.83	-0.72	20.96	<=34.77	Pass
			2	23.79	-0.72	20.92	<=34.77	Pass
			3	23.75	-0.72	20.88	<=34.77	Pass
		6	0	22.87	-0.72	20.00	<=34.77	Pass
	715.3	1	0	23.48	-0.72	20.61	<=34.77	Pass
			2	23.57	-0.72	20.70	<=34.77	Pass
			5	23.62	-0.72	20.75	<=34.77	Pass
		3	0	23.63	-0.72	20.76	<=34.77	Pass
			2	23.81	-0.72	20.94	<=34.77	Pass
			3	23.69	-0.72	20.82	<=34.77	Pass
		6	0	22.72	-0.72	19.85	<=34.77	Pass
16QAM	699.7	1	0	22.70	-0.72	19.83	<=34.77	Pass
			2	22.72	-0.72	19.85	<=34.77	Pass
			5	22.91	-0.72	20.04	<=34.77	Pass
		3	0	22.93	-0.72	20.06	<=34.77	Pass
			2	22.99	-0.72	20.12	<=34.77	Pass
			3	22.92	-0.72	20.05	<=34.77	Pass
		6	0	21.95	-0.72	19.08	<=34.77	Pass
	707.5	1	0	23.57	-0.72	20.70	<=34.77	Pass
			2	23.48	-0.72	20.61	<=34.77	Pass
			5	23.46	-0.72	20.59	<=34.77	Pass
		3	0	23.04	-0.72	20.17	<=34.77	Pass
			2	23.13	-0.72	20.26	<=34.77	Pass
			3	22.82	-0.72	19.95	<=34.77	Pass
		6	0	21.93	-0.72	19.06	<=34.77	Pass
	715.3	1	0	22.44	-0.72	19.57	<=34.77	Pass
			2	22.43	-0.72	19.56	<=34.77	Pass
			5	22.52	-0.72	19.65	<=34.77	Pass
		3	0	22.67	-0.72	19.80	<=34.77	Pass
			2	22.95	-0.72	20.08	<=34.77	Pass
			3	22.70	-0.72	19.83	<=34.77	Pass
		6	0	21.46	-0.72	18.59	<=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	24.05	-0.72	21.18	<=34.77	Pass
			7	24.41	-0.72	21.54	<=34.77	Pass
			14	23.75	-0.72	20.88	<=34.77	Pass
		8	0	23.01	-0.72	20.14	<=34.77	Pass
			4	22.94	-0.72	20.07	<=34.77	Pass
			7	22.90	-0.72	20.03	<=34.77	Pass
		15	0	23.01	-0.72	20.14	<=34.77	Pass
	707.5	1	0	23.95	-0.72	21.08	<=34.77	Pass
			7	24.15	-0.72	21.28	<=34.77	Pass
			14	24.20	-0.72	21.33	<=34.77	Pass
		8	0	23.06	-0.72	20.19	<=34.77	Pass
			4	22.99	-0.72	20.12	<=34.77	Pass
			7	22.93	-0.72	20.06	<=34.77	Pass
		15	0	22.86	-0.72	19.99	<=34.77	Pass
	714.5	1	0	23.75	-0.72	20.88	<=34.77	Pass
			7	23.61	-0.72	20.74	<=34.77	Pass
			14	23.61	-0.72	20.74	<=34.77	Pass
		8	0	22.81	-0.72	19.94	<=34.77	Pass
			4	22.79	-0.72	19.92	<=34.77	Pass
			7	22.77	-0.72	19.90	<=34.77	Pass
		15	0	22.74	-0.72	19.87	<=34.77	Pass
16QAM	700.5	1	0	23.35	-0.72	20.48	<=34.77	Pass
			7	23.42	-0.72	20.55	<=34.77	Pass
			14	23.17	-0.72	20.30	<=34.77	Pass
		8	0	22.13	-0.72	19.26	<=34.77	Pass
			4	22.17	-0.72	19.30	<=34.77	Pass
			7	22.02	-0.72	19.15	<=34.77	Pass
		15	0	22.05	-0.72	19.18	<=34.77	Pass
	707.5	1	0	23.35	-0.72	20.48	<=34.77	Pass
			7	23.81	-0.72	20.94	<=34.77	Pass
			14	23.49	-0.72	20.62	<=34.77	Pass
		8	0	21.84	-0.72	18.97	<=34.77	Pass
			4	21.79	-0.72	18.92	<=34.77	Pass
			7	21.98	-0.72	19.11	<=34.77	Pass
		15	0	21.83	-0.72	18.96	<=34.77	Pass
	714.5	1	0	22.67	-0.72	19.80	<=34.77	Pass
			7	22.62	-0.72	19.75	<=34.77	Pass
			14	22.68	-0.72	19.81	<=34.77	Pass
		8	0	21.76	-0.72	18.89	<=34.77	Pass
			4	21.76	-0.72	18.89	<=34.77	Pass
			7	21.72	-0.72	18.85	<=34.77	Pass
		15	0	21.73	-0.72	18.86	<=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	23.78	-0.72	20.91	<=34.77	Pass
			13	23.81	-0.72	20.94	<=34.77	Pass
			24	23.71	-0.72	20.84	<=34.77	Pass
		12	0	23.00	-0.72	20.13	<=34.77	Pass
			6	22.92	-0.72	20.05	<=34.77	Pass
			13	22.85	-0.72	19.98	<=34.77	Pass
		25	0	22.98	-0.72	20.11	<=34.77	Pass
	707.5	1	0	23.58	-0.72	20.71	<=34.77	Pass
			13	23.87	-0.72	21.00	<=34.77	Pass
			24	23.67	-0.72	20.80	<=34.77	Pass
		12	0	22.85	-0.72	19.98	<=34.77	Pass
			6	23.01	-0.72	20.14	<=34.77	Pass
			13	22.84	-0.72	19.97	<=34.77	Pass
		25	0	22.80	-0.72	19.93	<=34.77	Pass
	713.5	1	0	23.78	-0.72	20.91	<=34.77	Pass
			13	23.75	-0.72	20.88	<=34.77	Pass
			24	23.61	-0.72	20.74	<=34.77	Pass
		12	0	22.85	-0.72	19.98	<=34.77	Pass
			6	22.75	-0.72	19.88	<=34.77	Pass
			13	22.69	-0.72	19.82	<=34.77	Pass
		25	0	22.78	-0.72	19.91	<=34.77	Pass
16QAM	701.5	1	0	22.35	-0.72	19.48	<=34.77	Pass
			13	22.67	-0.72	19.80	<=34.77	Pass
			24	22.12	-0.72	19.25	<=34.77	Pass
		12	0	21.99	-0.72	19.12	<=34.77	Pass
			6	21.81	-0.72	18.94	<=34.77	Pass
			13	21.75	-0.72	18.88	<=34.77	Pass
		25	0	21.83	-0.72	18.96	<=34.77	Pass
	707.5	1	0	23.04	-0.72	20.17	<=34.77	Pass
			13	23.38	-0.72	20.51	<=34.77	Pass
			24	23.24	-0.72	20.37	<=34.77	Pass
		12	0	21.69	-0.72	18.82	<=34.77	Pass
			6	21.85	-0.72	18.98	<=34.77	Pass
			13	21.70	-0.72	18.83	<=34.77	Pass
		25	0	21.71	-0.72	18.84	<=34.77	Pass
	713.5	1	0	22.69	-0.72	19.82	<=34.77	Pass
			13	22.55	-0.72	19.68	<=34.77	Pass
			24	22.47	-0.72	19.60	<=34.77	Pass
		12	0	21.63	-0.72	18.76	<=34.77	Pass
			6	21.64	-0.72	18.77	<=34.77	Pass
			13	21.55	-0.72	18.68	<=34.77	Pass
		25	0	21.54	-0.72	18.67	<=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	23.88	-0.72	21.01	<=34.77	Pass
			25	23.75	-0.72	20.88	<=34.77	Pass
			49	23.61	-0.72	20.74	<=34.77	Pass
		25	0	22.93	-0.72	20.06	<=34.77	Pass
			13	22.81	-0.72	19.94	<=34.77	Pass
			25	22.83	-0.72	19.96	<=34.77	Pass
		50	0	22.90	-0.72	20.03	<=34.77	Pass
	707.5	1	0	23.85	-0.72	20.98	<=34.77	Pass
			25	24.29	-0.72	21.42	<=34.77	Pass
			49	23.73	-0.72	20.86	<=34.77	Pass
		25	0	22.84	-0.72	19.97	<=34.77	Pass
			13	22.91	-0.72	20.04	<=34.77	Pass
			25	22.87	-0.72	20.00	<=34.77	Pass
		50	0	22.83	-0.72	19.96	<=34.77	Pass
	711	1	0	23.98	-0.72	21.11	<=34.77	Pass
			25	24.28	-0.72	21.41	<=34.77	Pass
			49	23.56	-0.72	20.69	<=34.77	Pass
		25	0	22.87	-0.72	20.00	<=34.77	Pass
			13	22.84	-0.72	19.97	<=34.77	Pass
			25	22.73	-0.72	19.86	<=34.77	Pass
		50	0	22.77	-0.72	19.90	<=34.77	Pass
16QAM	704	1	0	23.16	-0.72	20.29	<=34.77	Pass
			25	23.24	-0.72	20.37	<=34.77	Pass
			49	22.89	-0.72	20.02	<=34.77	Pass
		12	0	22.98	-0.72	20.11	<=34.77	Pass
			19	22.93	-0.72	20.06	<=34.77	Pass
			38	22.91	-0.72	20.04	<=34.77	Pass
		27	0	21.96	-0.72	19.09	<=34.77	Pass
	707.5	1	0	22.50	-0.72	19.63	<=34.77	Pass
			25	24.02	-0.72	21.15	<=34.77	Pass
			49	23.34	-0.72	20.47	<=34.77	Pass
		12	0	22.71	-0.72	19.84	<=34.77	Pass
			19	23.06	-0.72	20.19	<=34.77	Pass
			38	22.93	-0.72	20.06	<=34.77	Pass
		27	0	21.92	-0.72	19.05	<=34.77	Pass
	711	1	0	22.70	-0.72	19.83	<=34.77	Pass
			25	23.55	-0.72	20.68	<=34.77	Pass
			49	22.44	-0.72	19.57	<=34.77	Pass
		12	0	22.83	-0.72	19.96	<=34.77	Pass
			19	22.94	-0.72	20.07	<=34.77	Pass
			38	22.67	-0.72	19.80	<=34.77	Pass
		27	23	21.87	-0.72	19.00	<=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	704	50	0	20	3.27	-0.807	-0.0011	-2.5 to 2.5	Pass
					3.85	0.942	0.0013	-2.5 to 2.5	Pass
					4.43	0.273	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-1.450	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-0.692	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.107	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.041	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-0.608	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.530	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.385	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-0.355	-0.0005	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.911	-0.0027	-2.5 to 2.5	Pass
					3.85	-0.021	0.0000	-2.5 to 2.5	Pass
					4.43	-1.003	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	0.457	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.666	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.832	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-1.508	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-0.829	-0.0012	-2.5 to 2.5	Pass
				40	3.85	0.178	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.599	-0.0008	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.891	-0.0013	-2.5 to 2.5	Pass
					3.85	-1.706	-0.0024	-2.5 to 2.5	Pass
					4.43	-2.131	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-3.154	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-1.810	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-1.397	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-1.317	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-1.506	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-2.439	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-2.224	-0.0031	-2.5 to 2.5	Pass
16QAM	704	27	0	20	3.27	0.643	0.0009	-2.5 to 2.5	Pass
					3.85	-0.721	-0.0010	-2.5 to 2.5	Pass
					4.43	-0.484	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.363	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.028	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.380	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.456	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.488	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.156	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass

	707.5	27	0	20	3.27	0.231	0.0003	-2.5 to 2.5	Pass
					3.85	-0.326	-0.0005	-2.5 to 2.5	Pass
					4.43	0.205	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.189	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.788	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.294	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.743	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.593	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.061	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.961	-0.0014	-2.5 to 2.5	Pass
				50	3.85	0.895	0.0013	-2.5 to 2.5	Pass
	711	27	23	20	3.27	-1.729	-0.0024	-2.5 to 2.5	Pass
					3.85	-1.573	-0.0022	-2.5 to 2.5	Pass
					4.43	-1.339	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.220	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.230	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.142	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-1.720	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-1.568	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-3.174	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-1.098	-0.0015	-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	699.7	6	0	1.107	/	Pass
		707.5	6	0	1.116	/	Pass
		715.3	6	0	1.102	/	Pass
	16QAM	699.7	6	0	1.103	/	Pass
		707.5	6	0	1.115	/	Pass
		715.3	6	0	1.113	/	Pass
3	QPSK	700.5	15	0	2.734	/	Pass
		707.5	15	0	2.741	/	Pass
		714.5	15	0	2.746	/	Pass
	16QAM	700.5	15	0	2.729	/	Pass
		707.5	15	0	2.733	/	Pass
		714.5	15	0	2.738	/	Pass
5	QPSK	701.5	25	0	4.564	/	Pass
		707.5	25	0	4.540	/	Pass
		713.5	25	0	4.544	/	Pass
	16QAM	701.5	25	0	4.523	/	Pass
		707.5	25	0	4.575	/	Pass
		713.5	25	0	4.559	/	Pass
10	QPSK	704	50	0	9.036	/	Pass
		707.5	50	0	9.044	/	Pass
		711	50	0	9.006	/	Pass
	16QAM	704	27	0	5.077	/	Pass
		707.5	27	0	5.053	/	Pass
		711	27	23	5.043	/	Pass

3.1.2 Band12_XDB

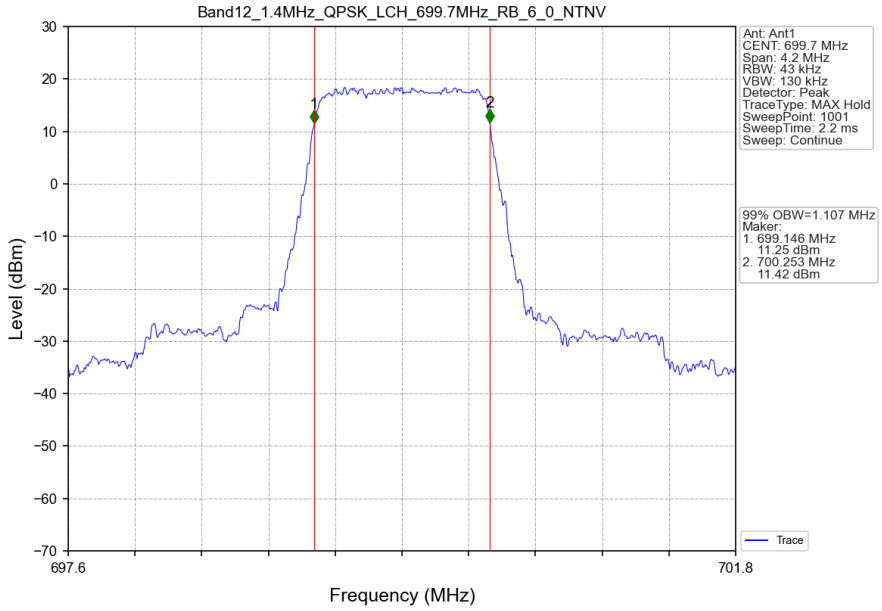
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.325	/	Pass
		707.5	6	0	1.305	/	Pass
		715.3	6	0	1.328	/	Pass
	16QAM	699.7	6	0	1.302	/	Pass
		707.5	6	0	1.326	/	Pass
		715.3	6	0	1.343	/	Pass
3	QPSK	700.5	15	0	3.043	/	Pass
		707.5	15	0	3.030	/	Pass
		714.5	15	0	3.049	/	Pass
	16QAM	700.5	15	0	3.017	/	Pass
		707.5	15	0	3.065	/	Pass
		714.5	15	0	3.044	/	Pass

5	QPSK	701.5	25	0	5.091	/	Pass
		707.5	25	0	5.069	/	Pass
		713.5	25	0	5.086	/	Pass
	16QAM	701.5	25	0	5.037	/	Pass
		707.5	25	0	5.093	/	Pass
		713.5	25	0	5.076	/	Pass
10	QPSK	704	50	0	10.024	/	Pass
		707.5	50	0	10.073	/	Pass
		711	50	0	9.934	/	Pass
	16QAM	704	27	0	5.979	/	Pass
		707.5	27	0	6.063	/	Pass
		711	27	23	6.017	/	Pass

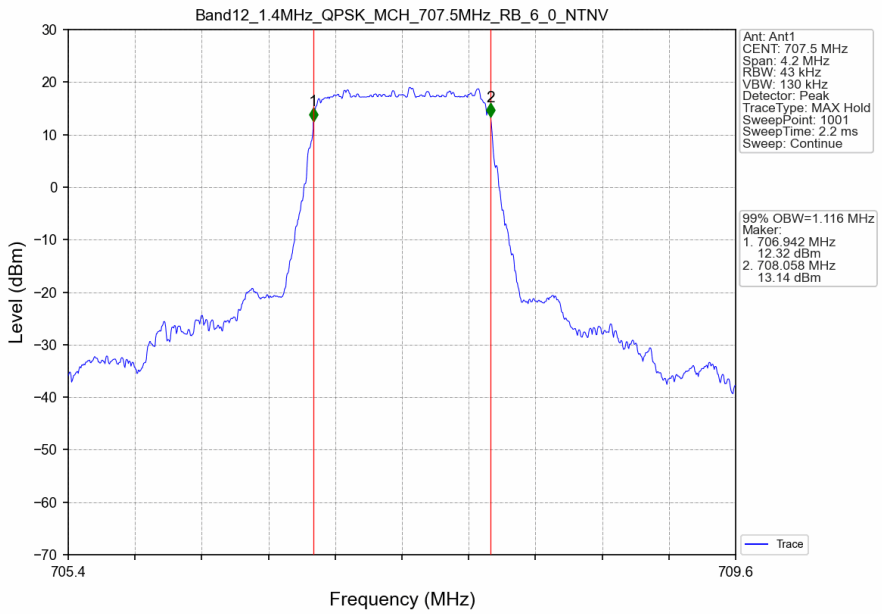
3.2 Test Graph

3.2.1 Band12_OBW

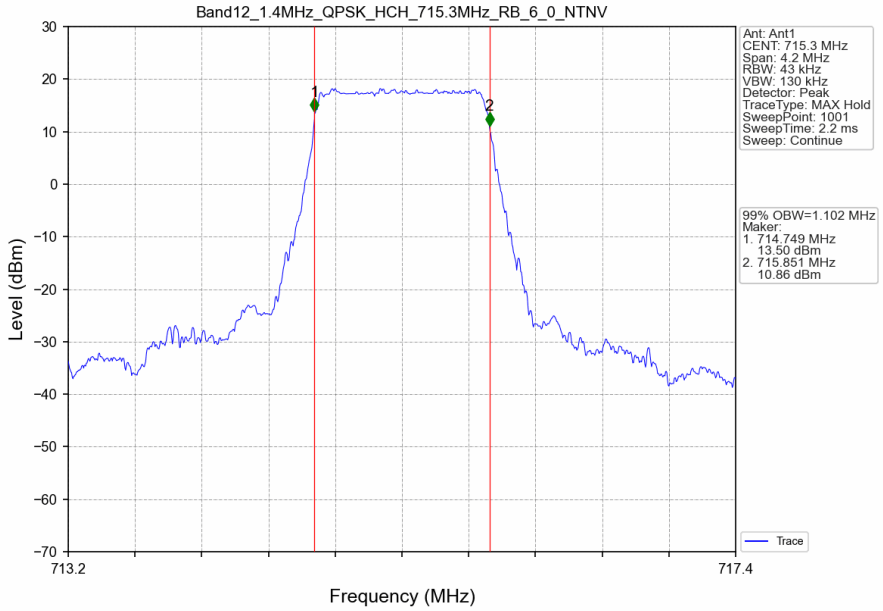
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



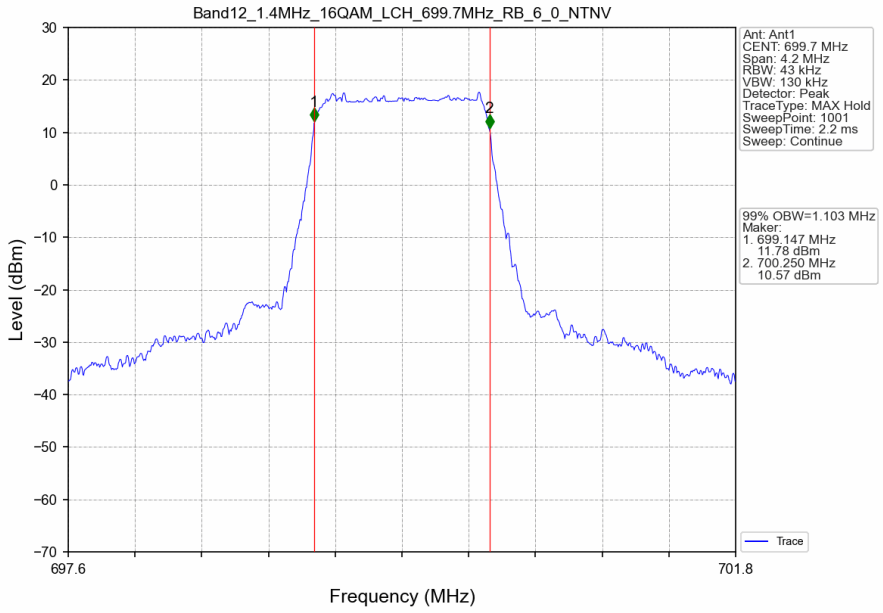
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

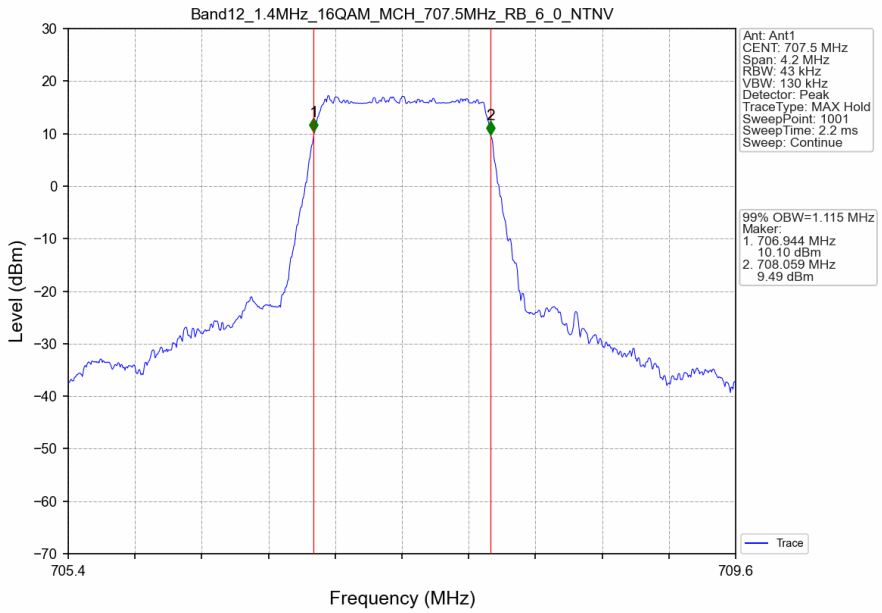


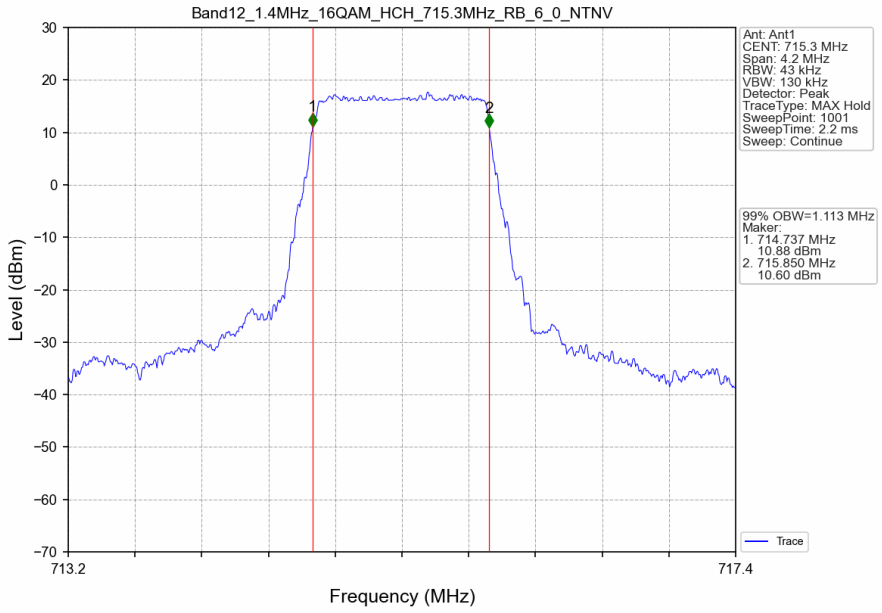
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



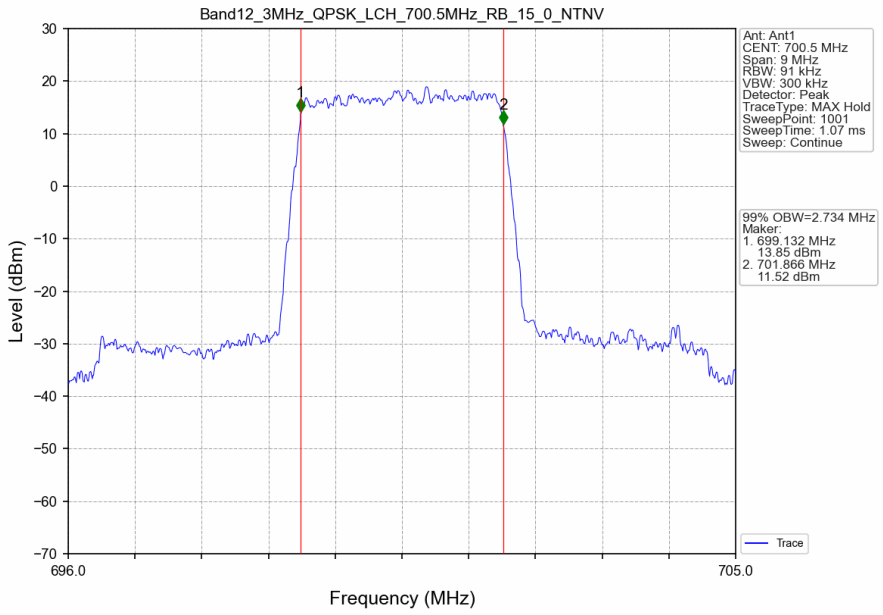
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



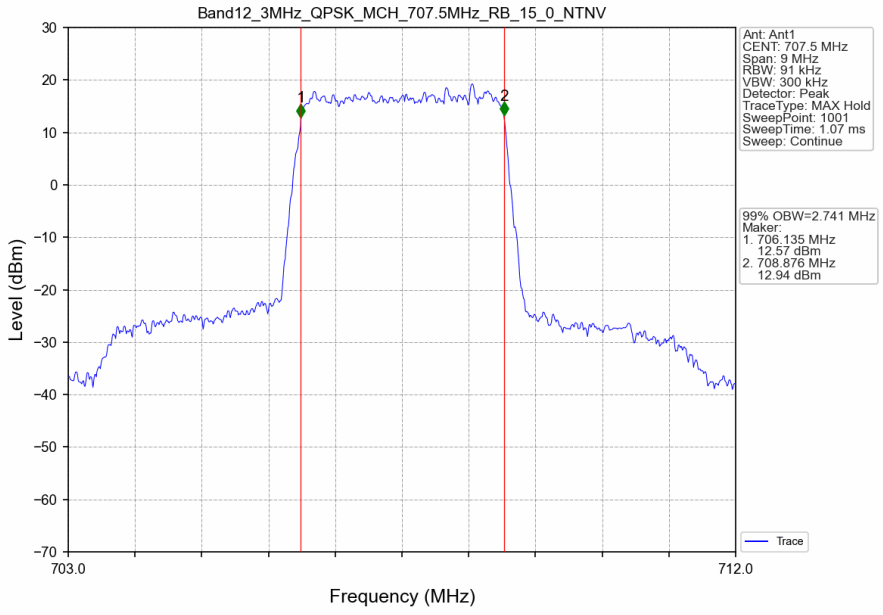
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV


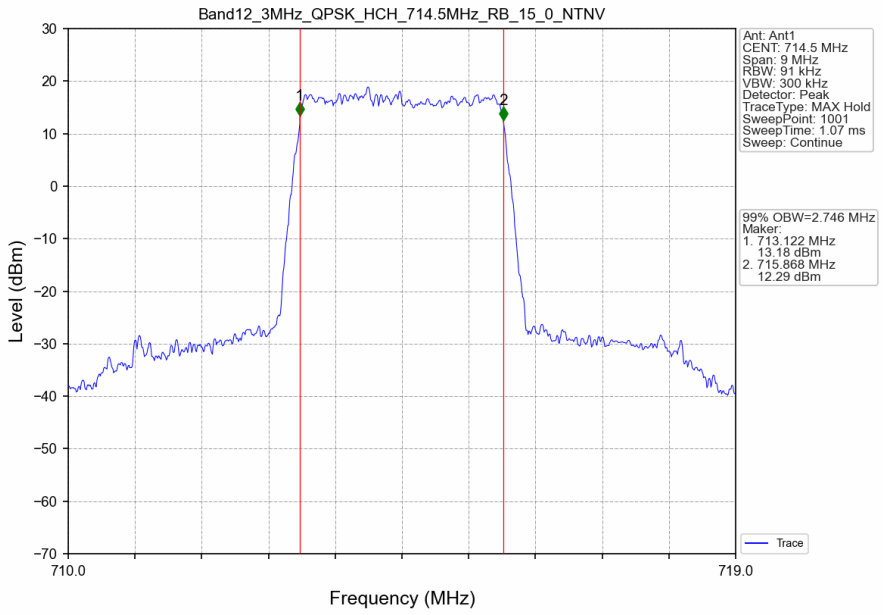
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



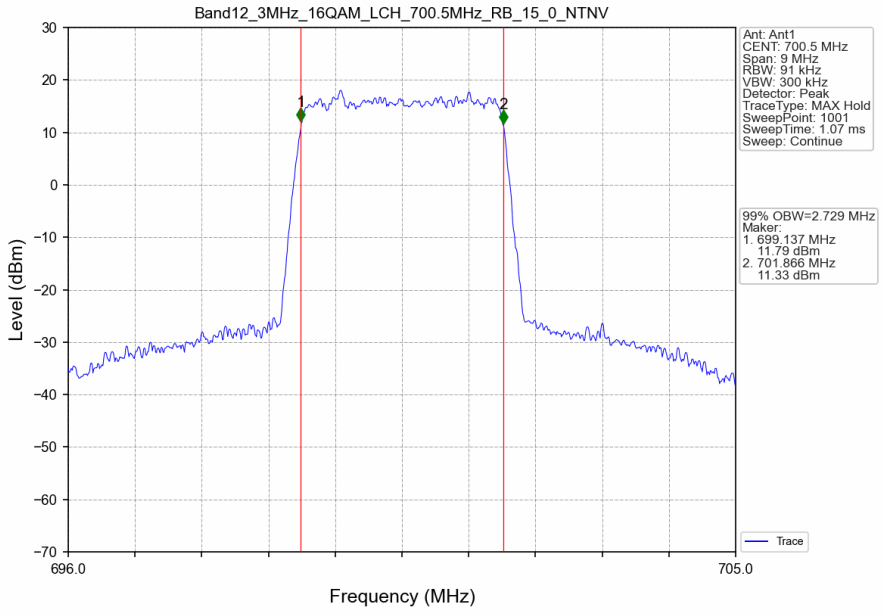
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



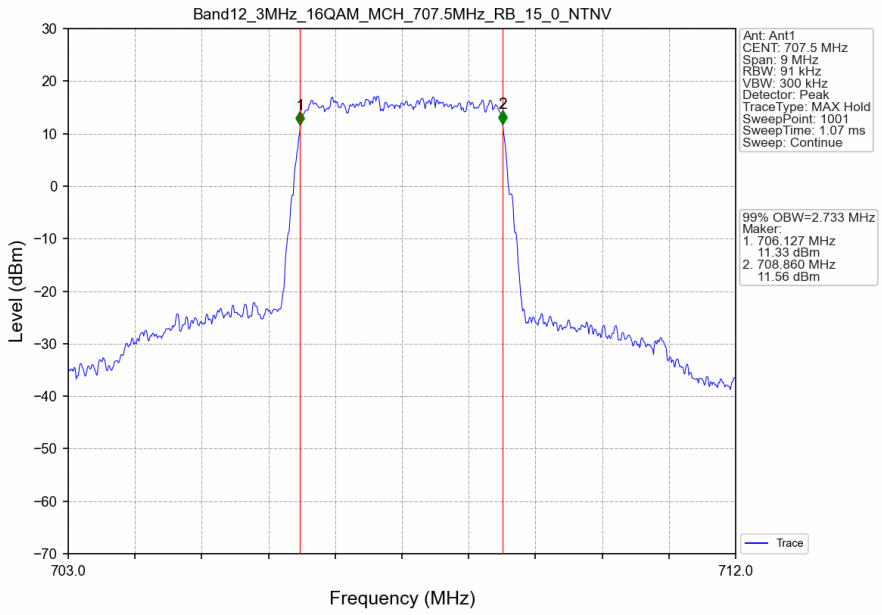
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



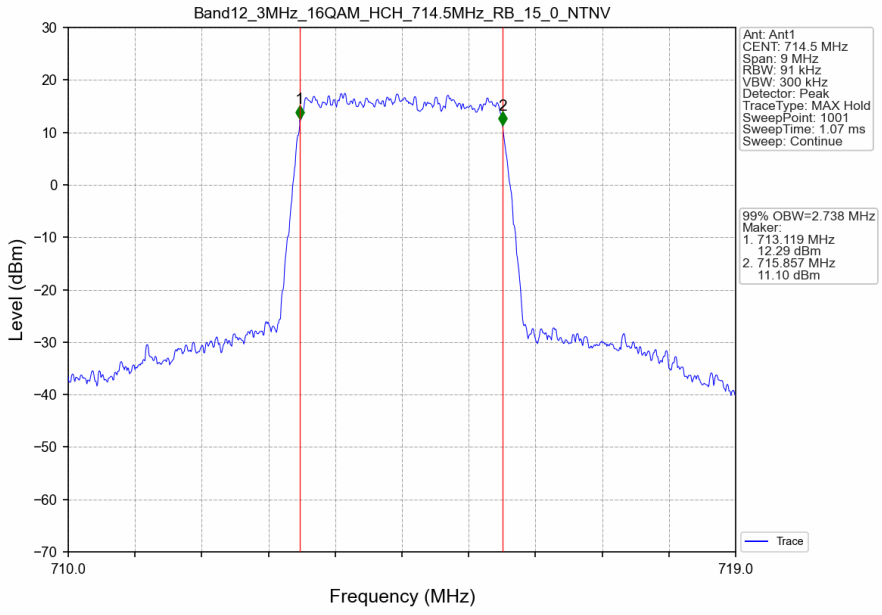
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



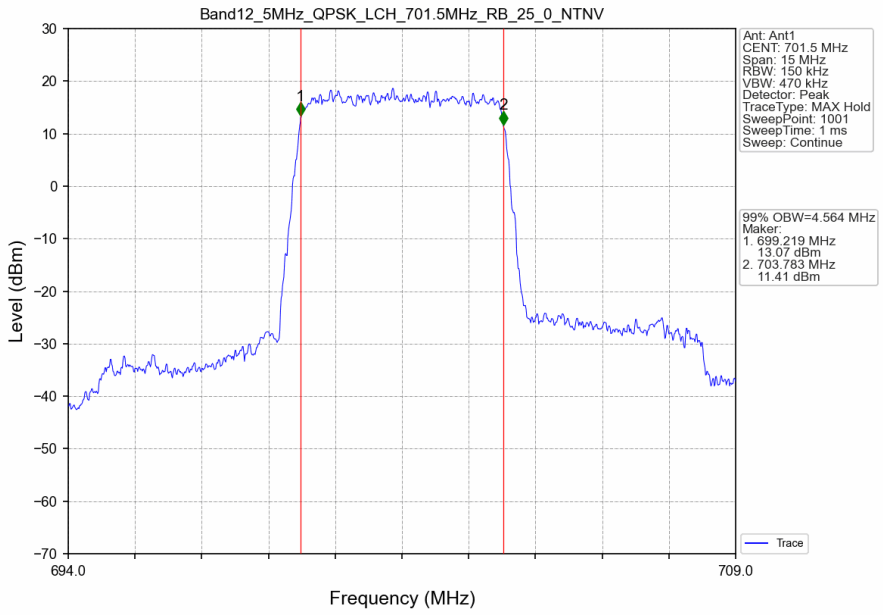
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



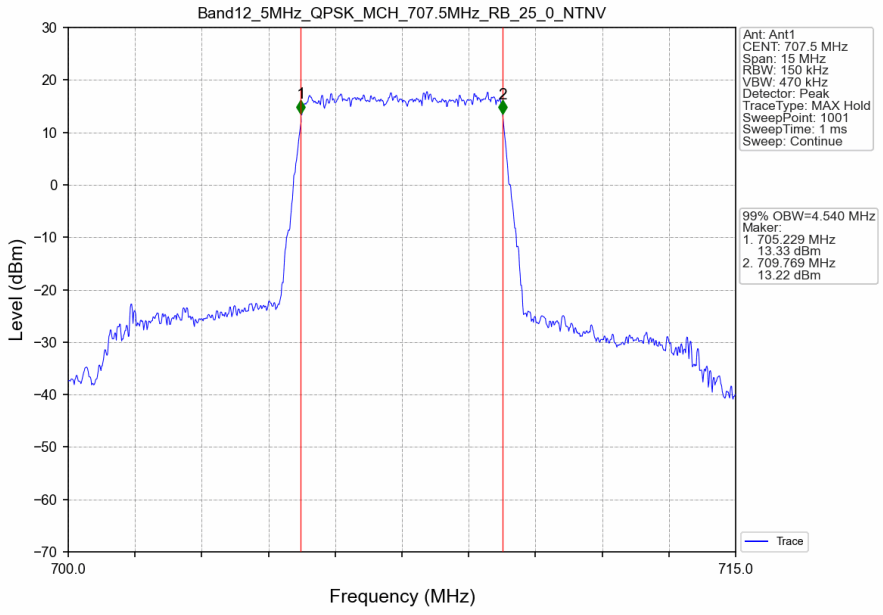
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



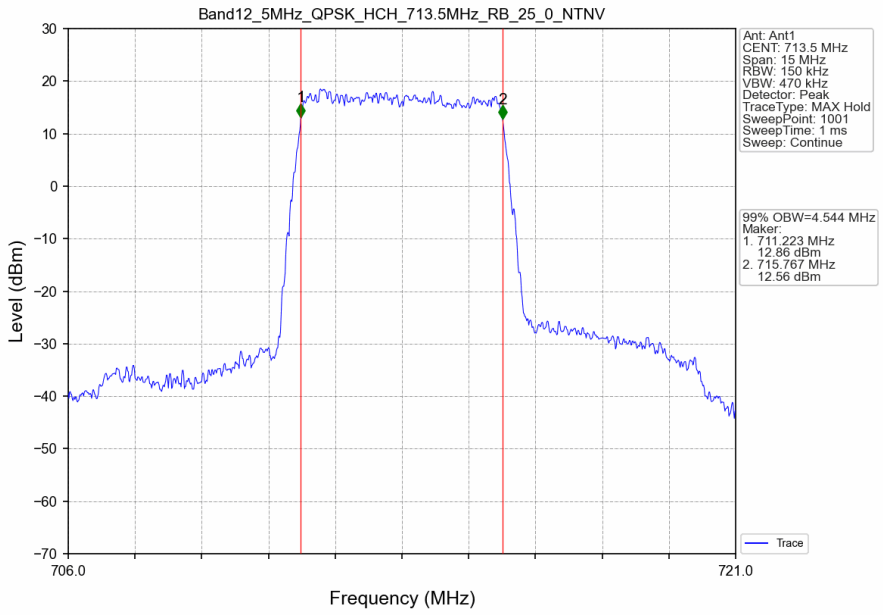
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



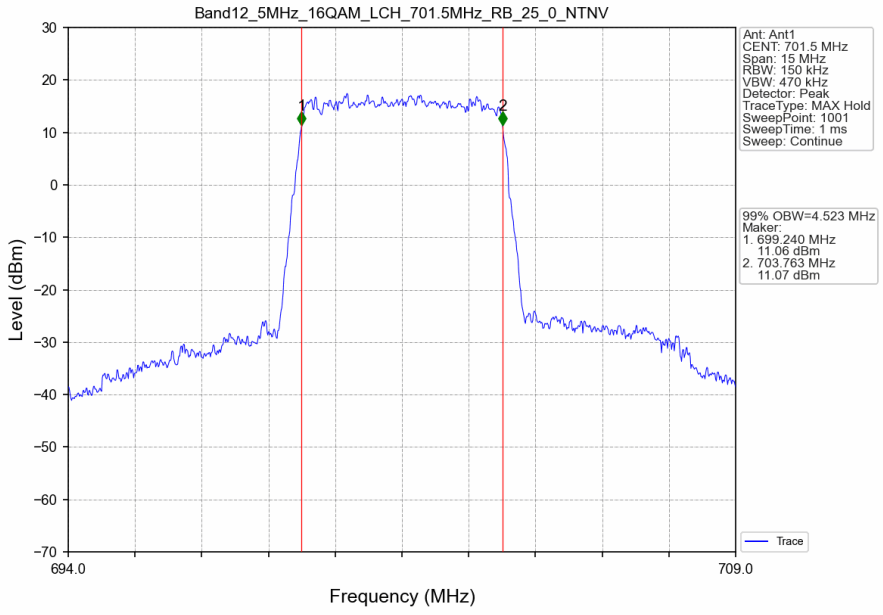
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

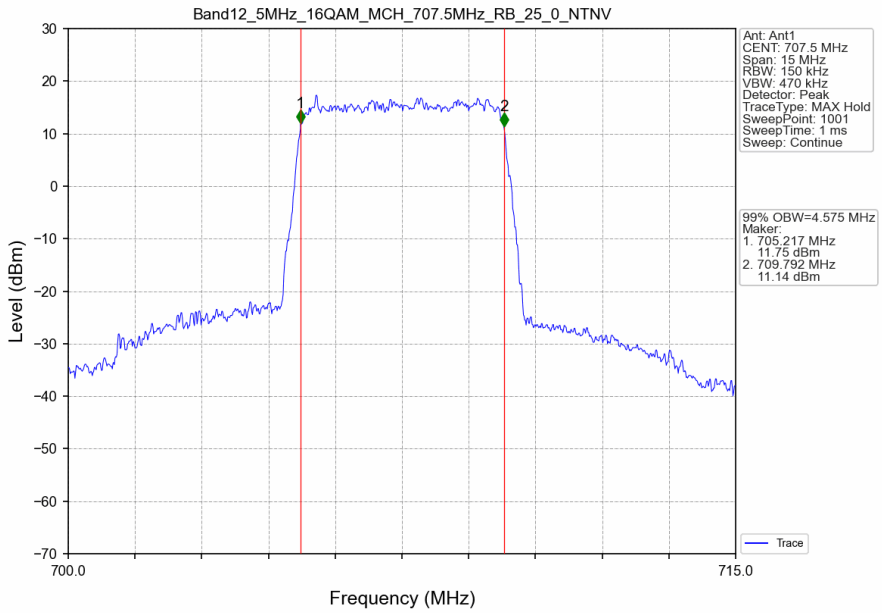


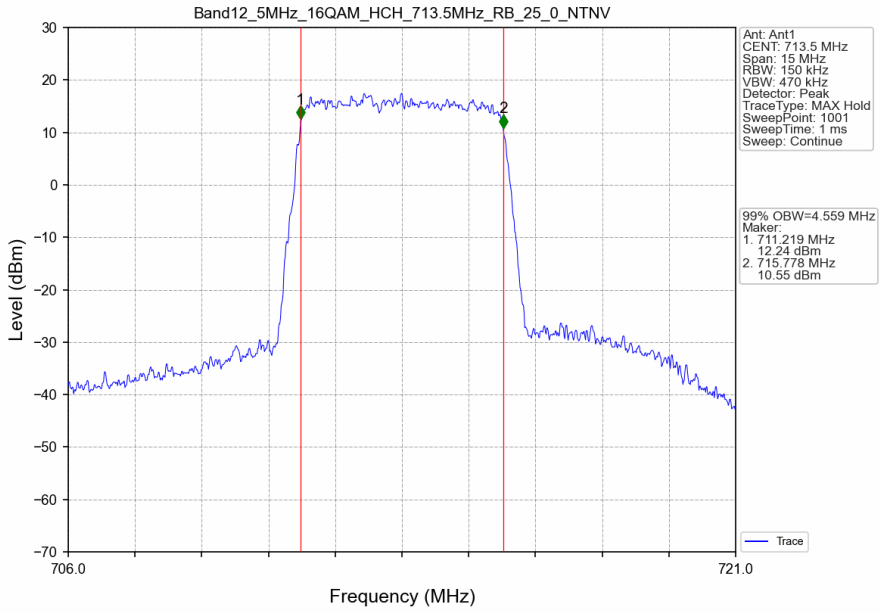
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



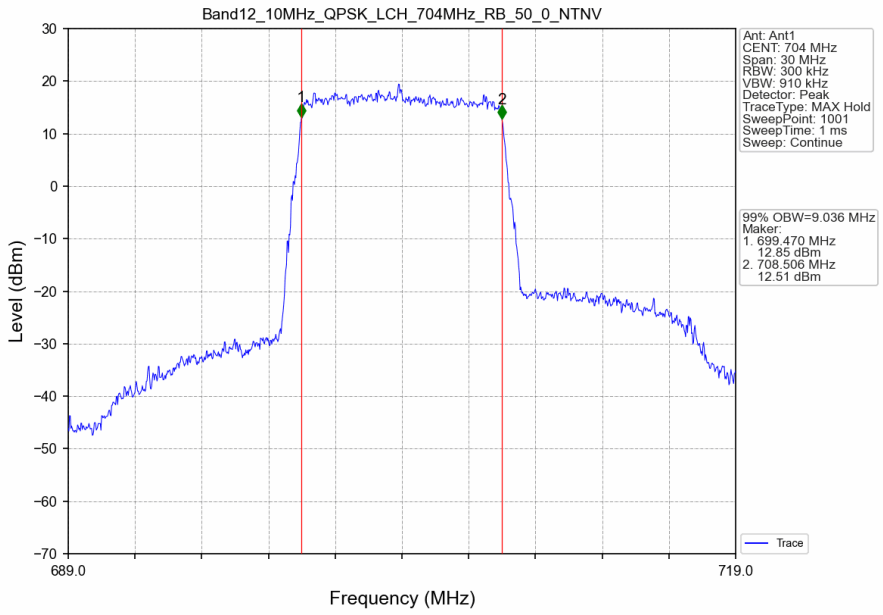
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



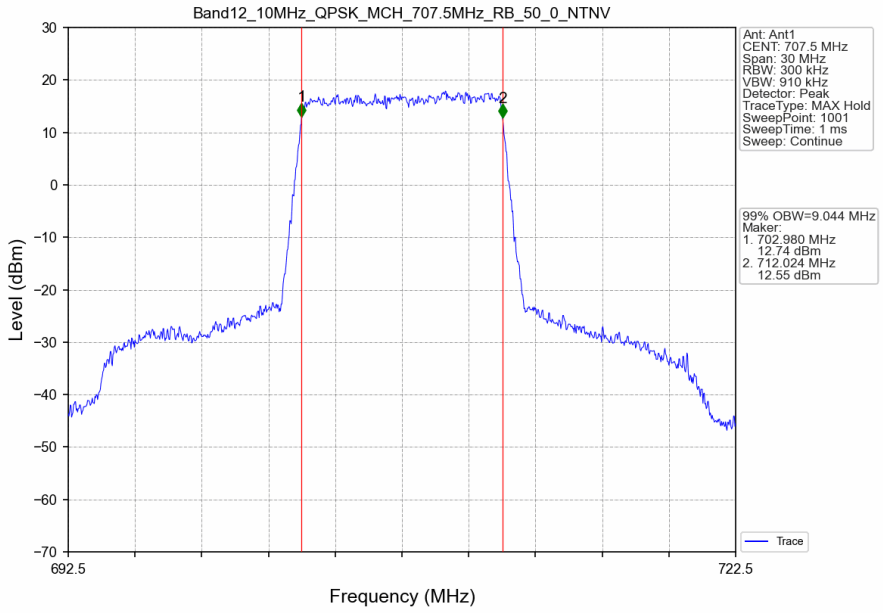
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV


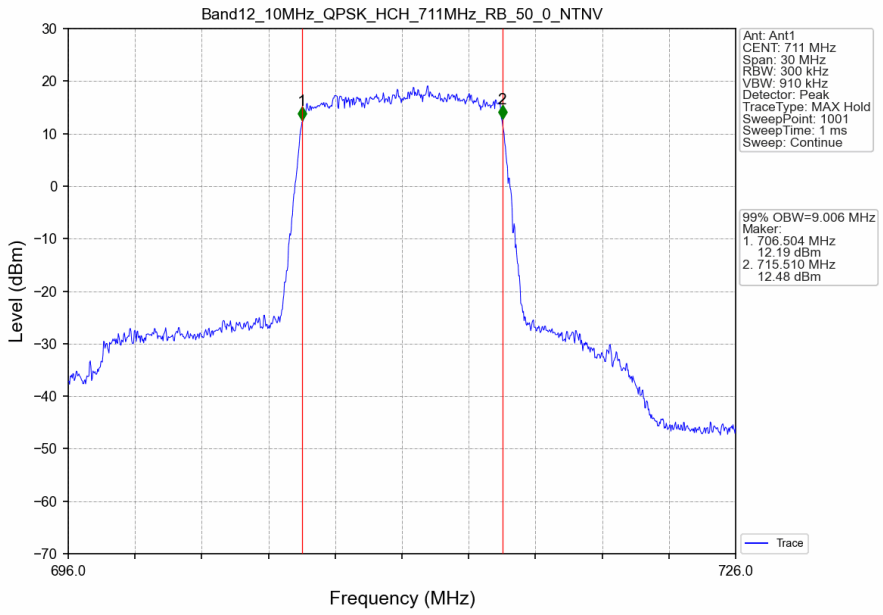
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



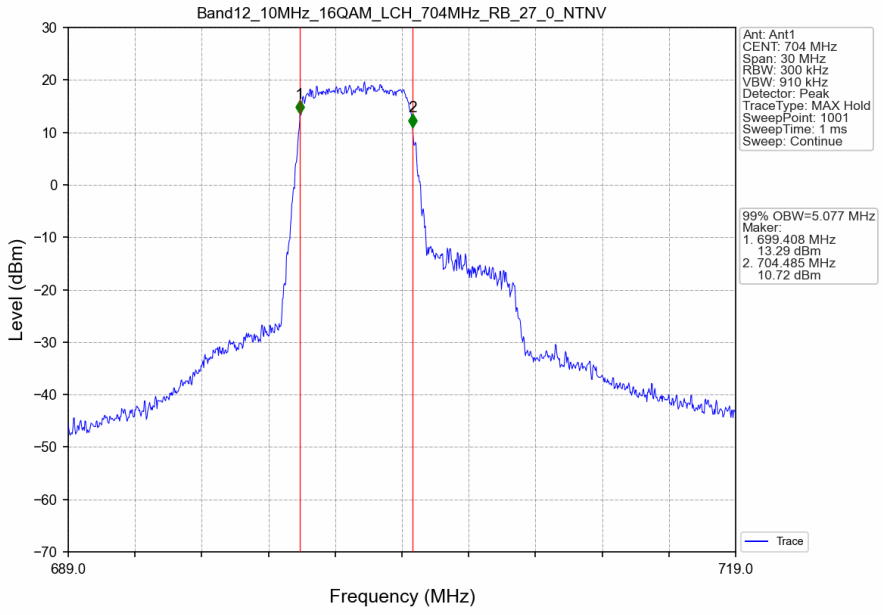
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



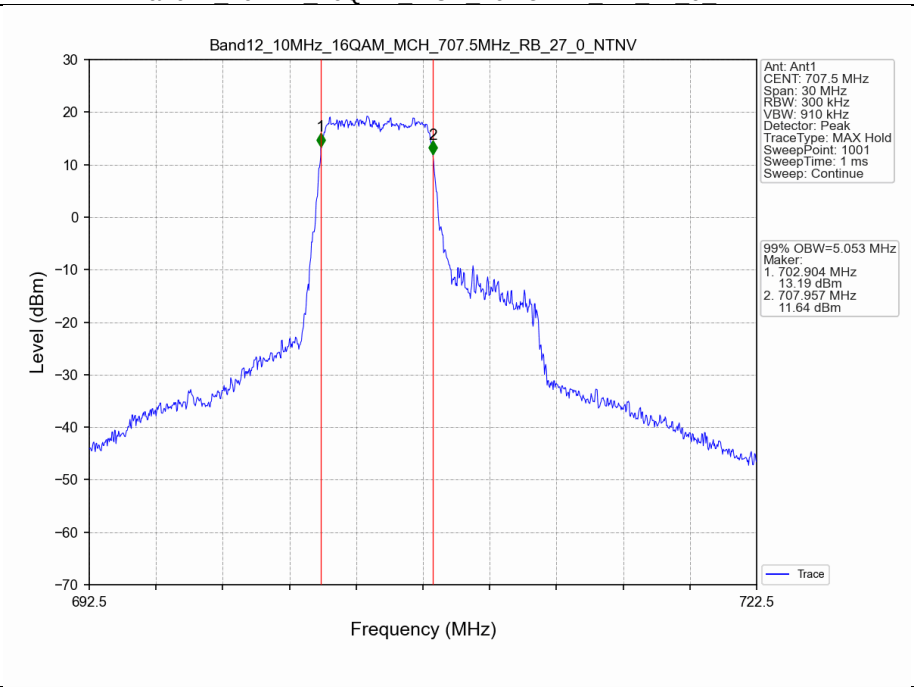
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



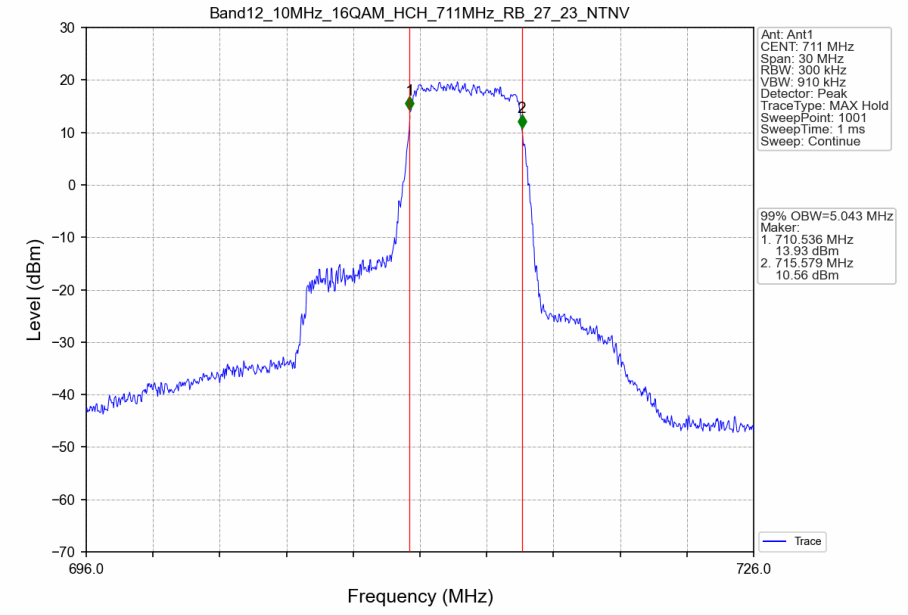
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV

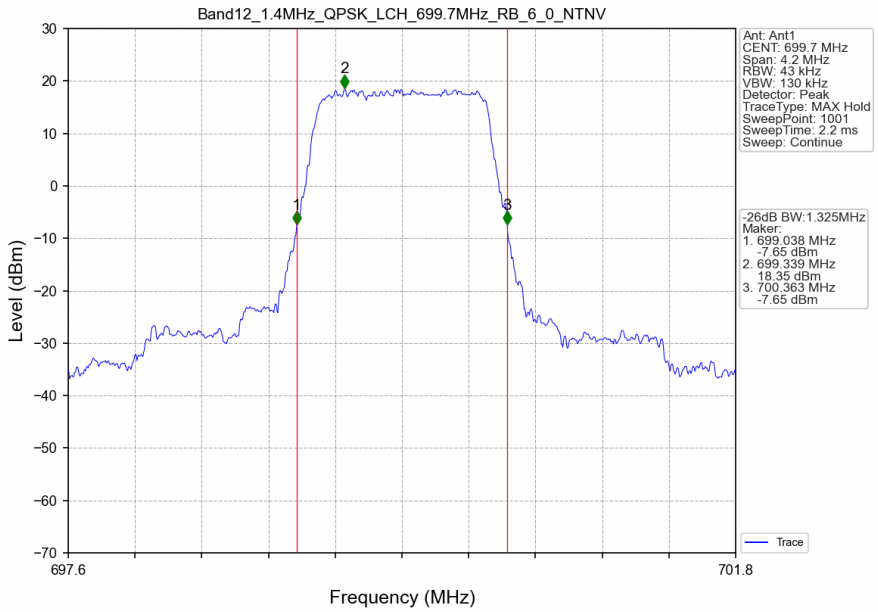


Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV

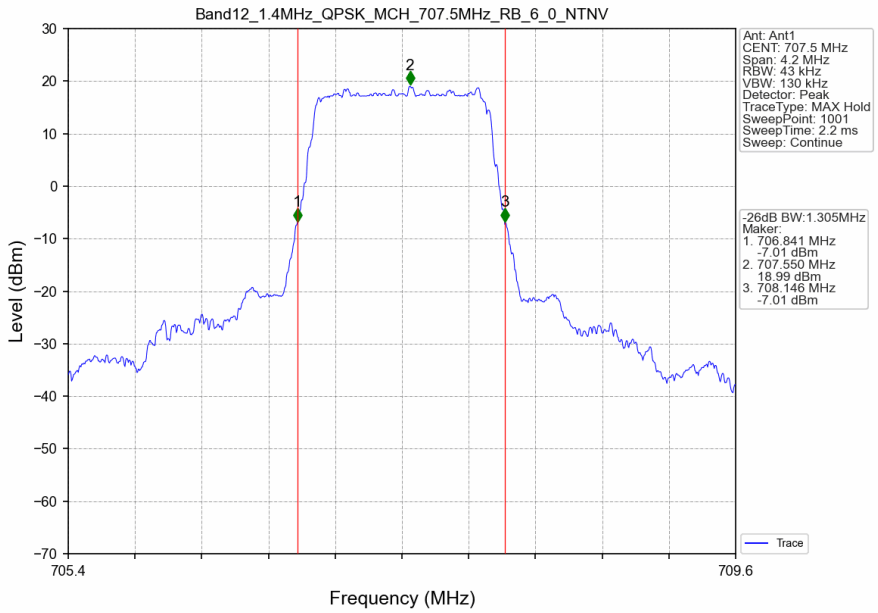


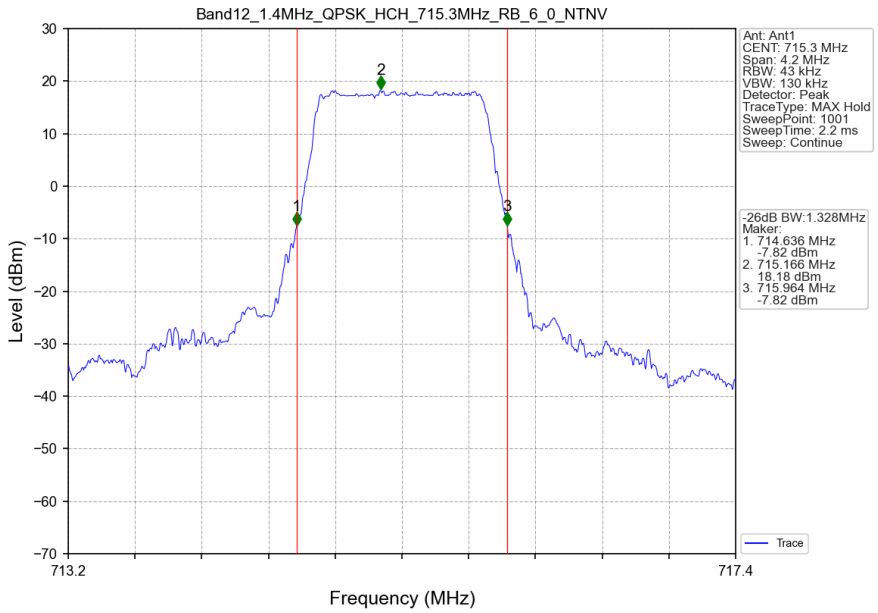
3.2.2 Band12_XDB

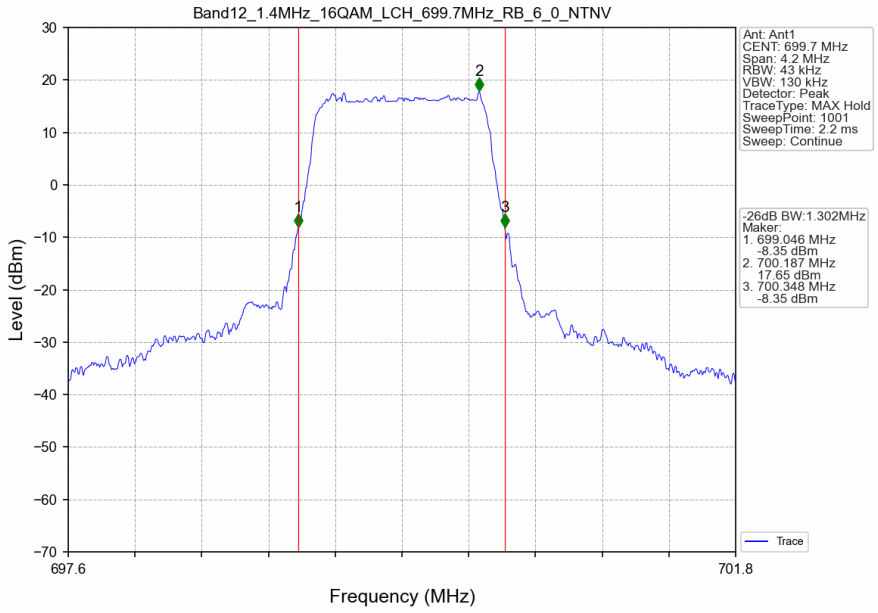
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

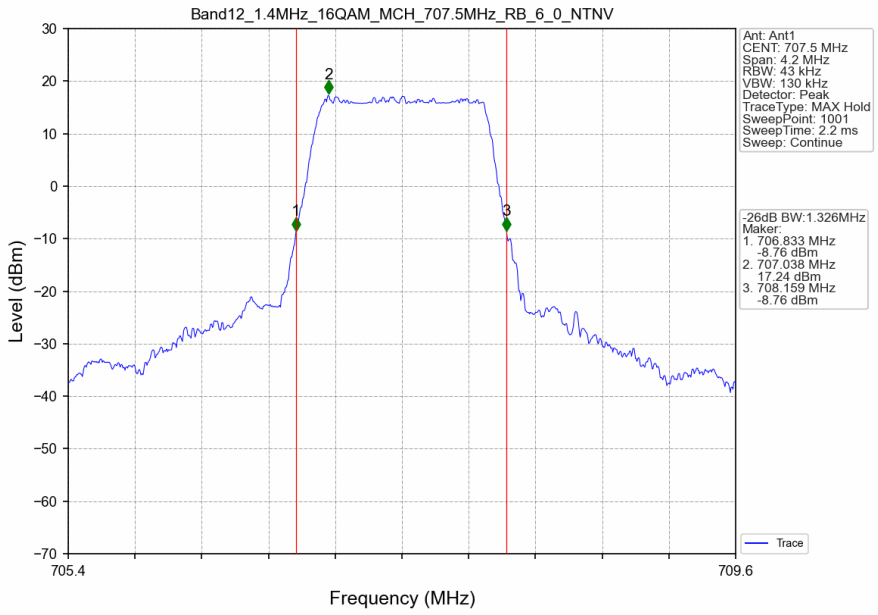


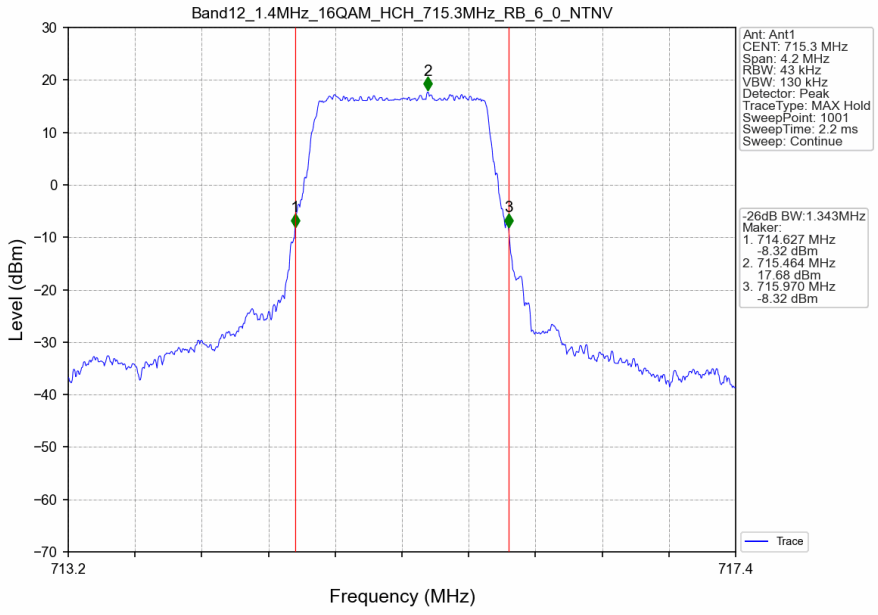
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



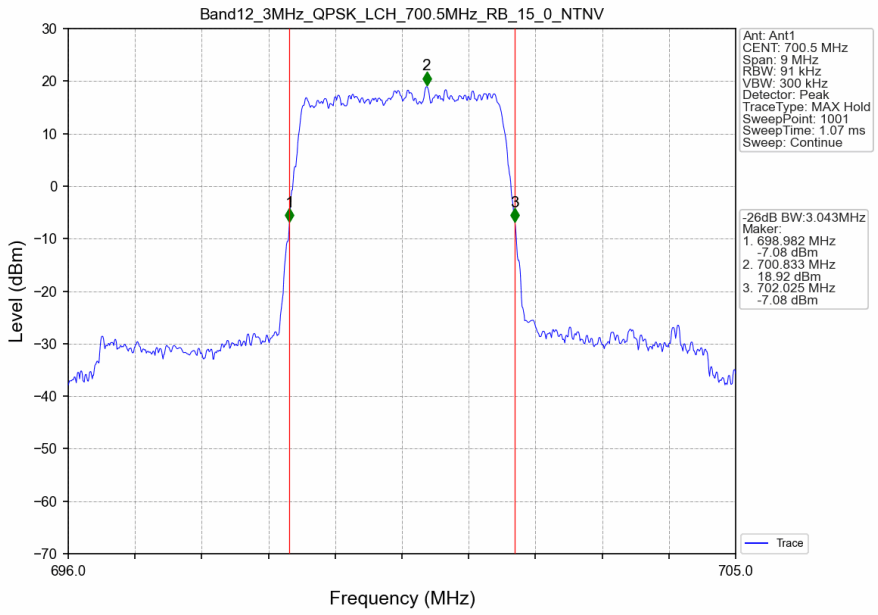
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV


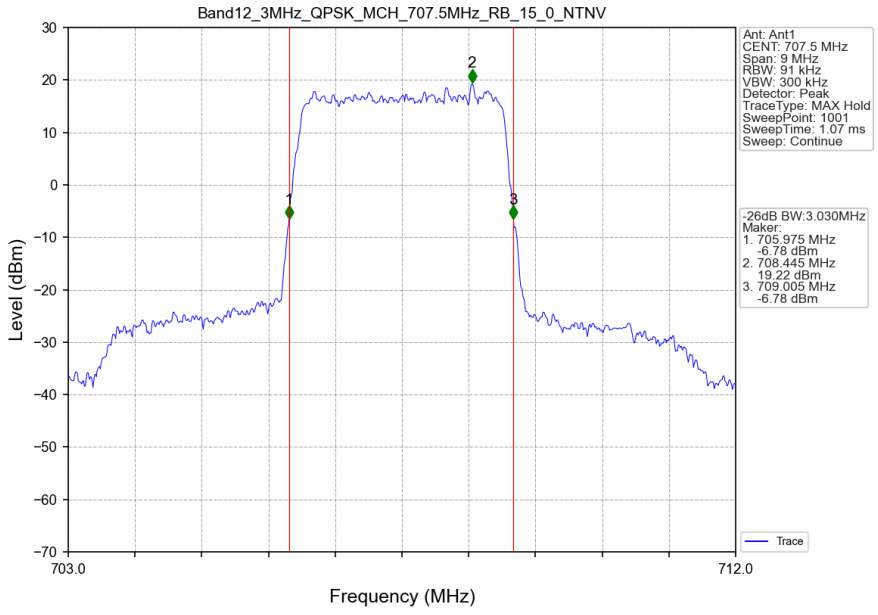
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV


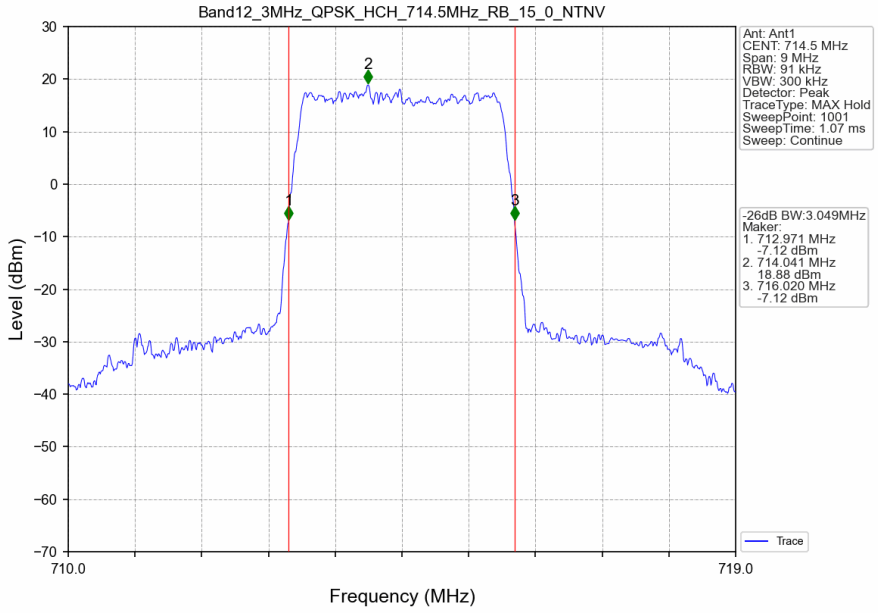
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



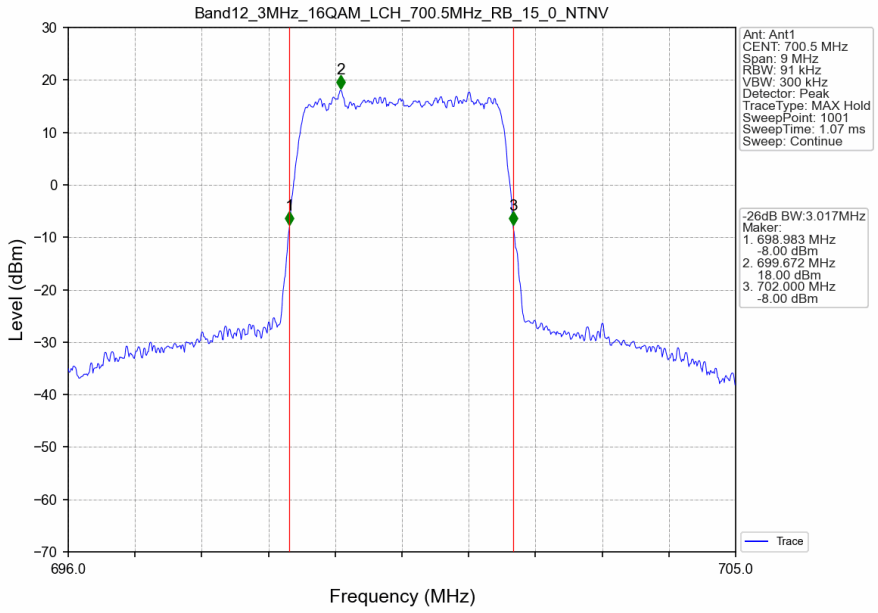
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



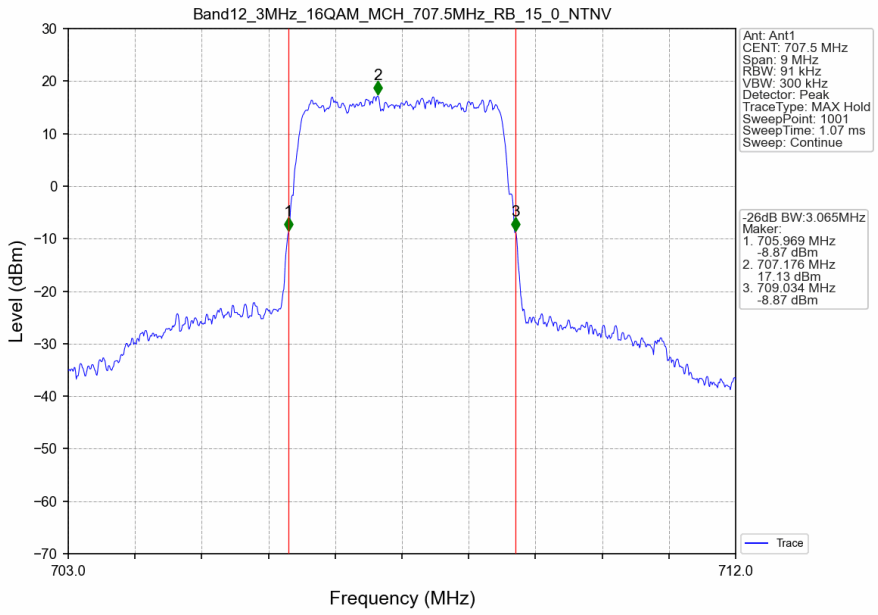
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



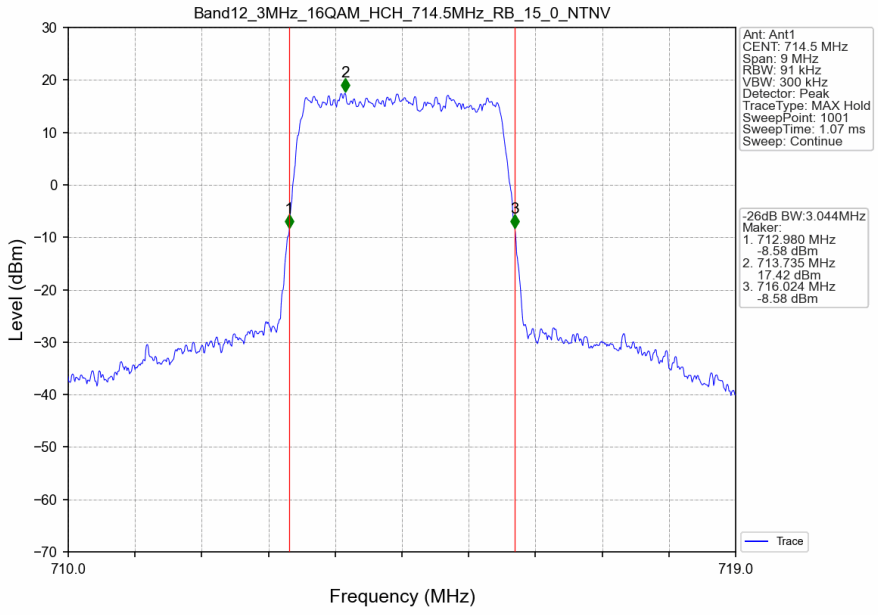
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



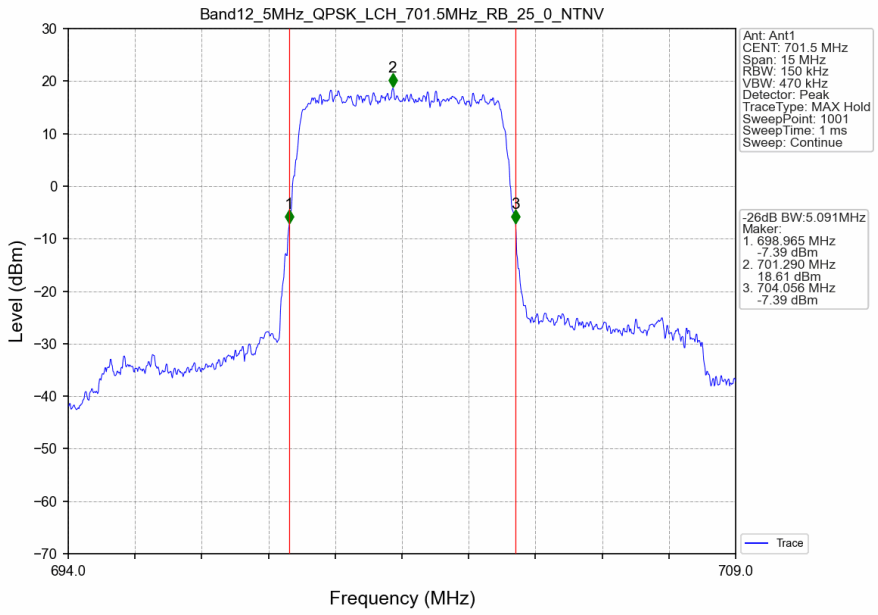
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



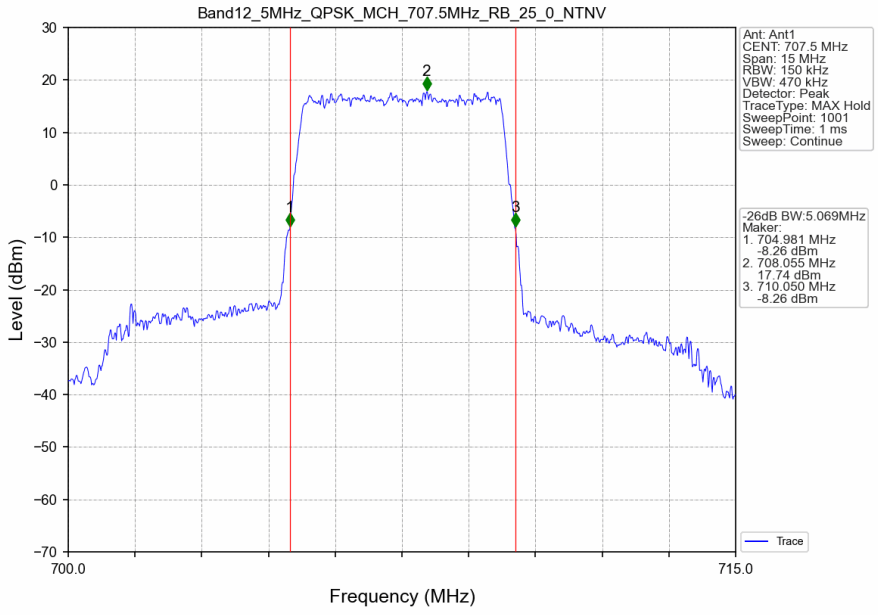
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



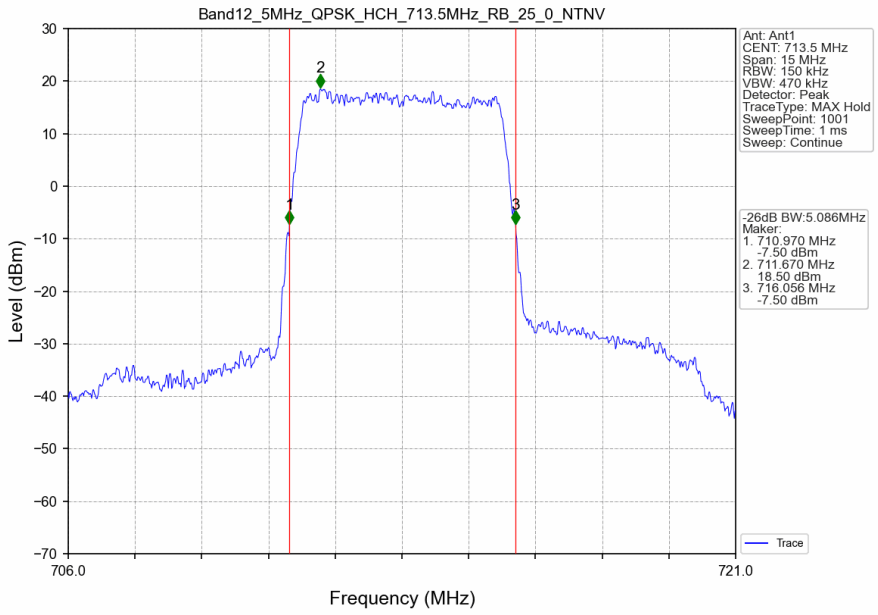
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



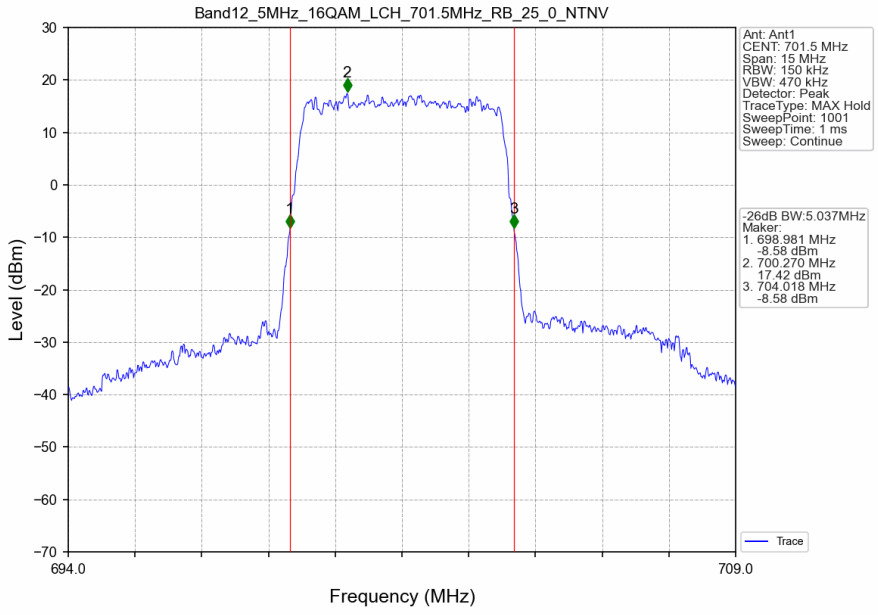
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



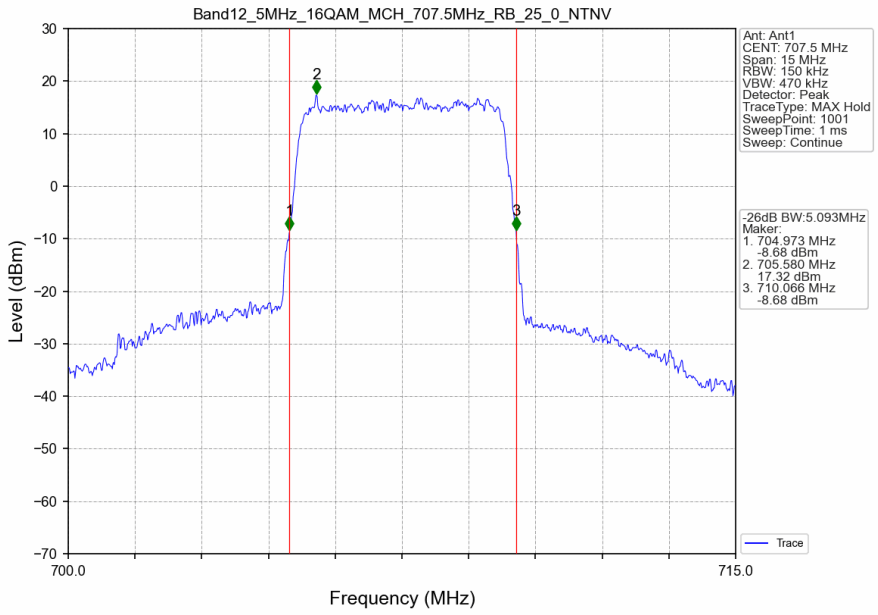
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



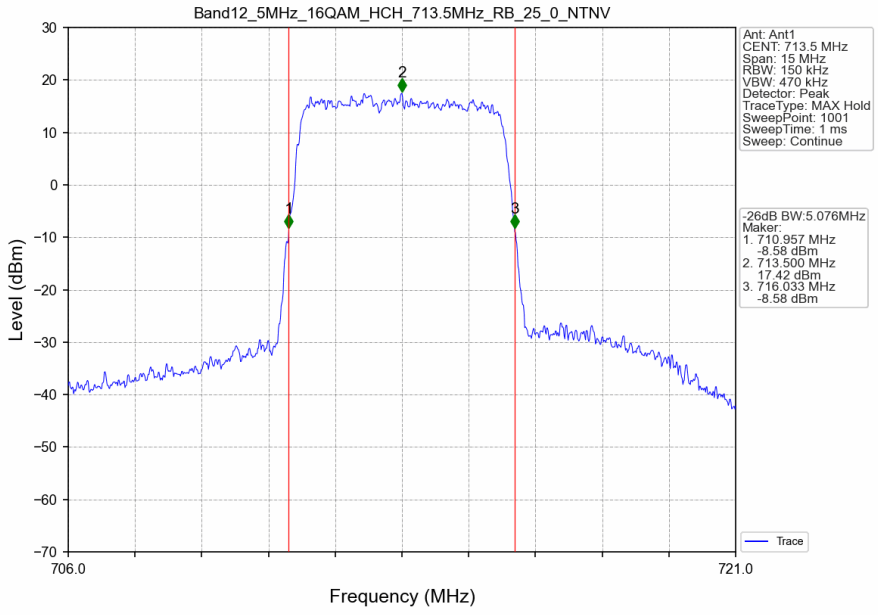
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



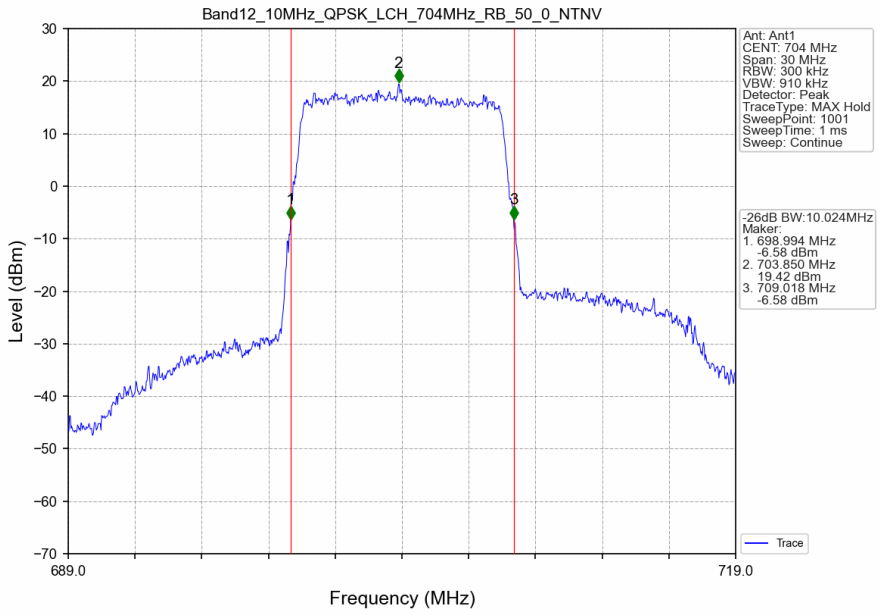
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



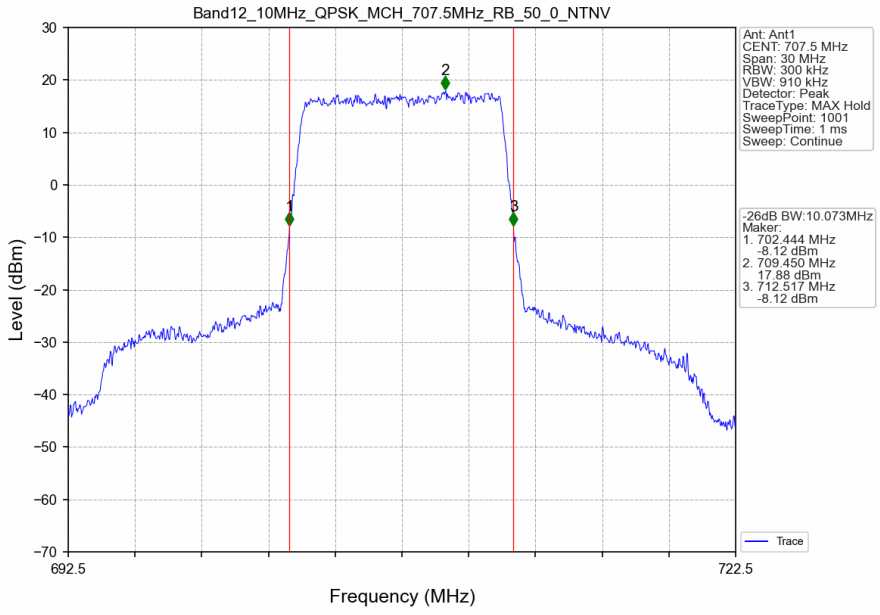
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



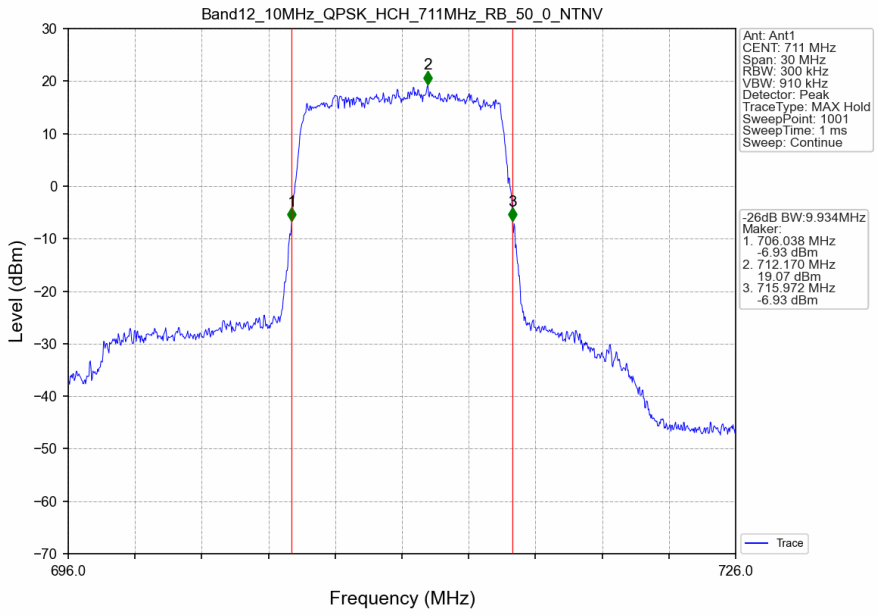
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



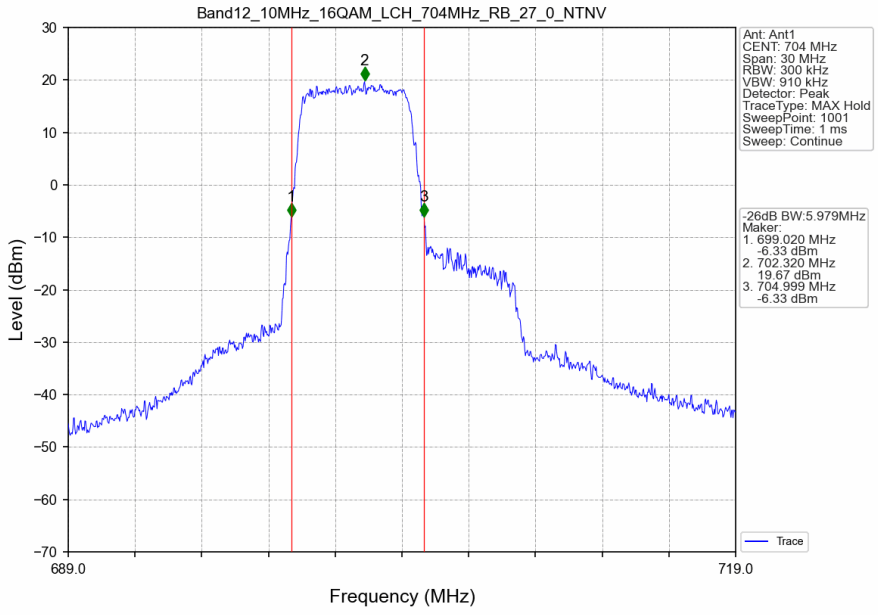
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



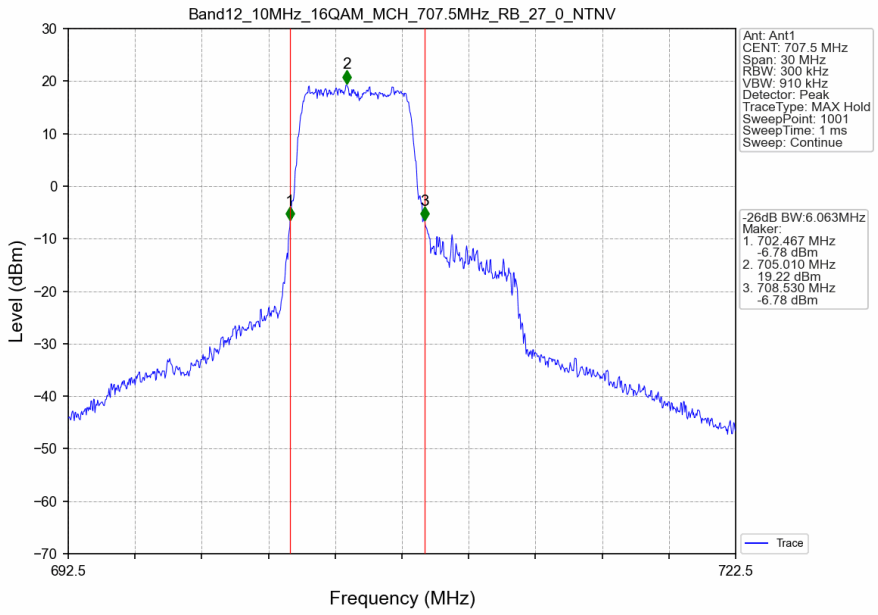
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



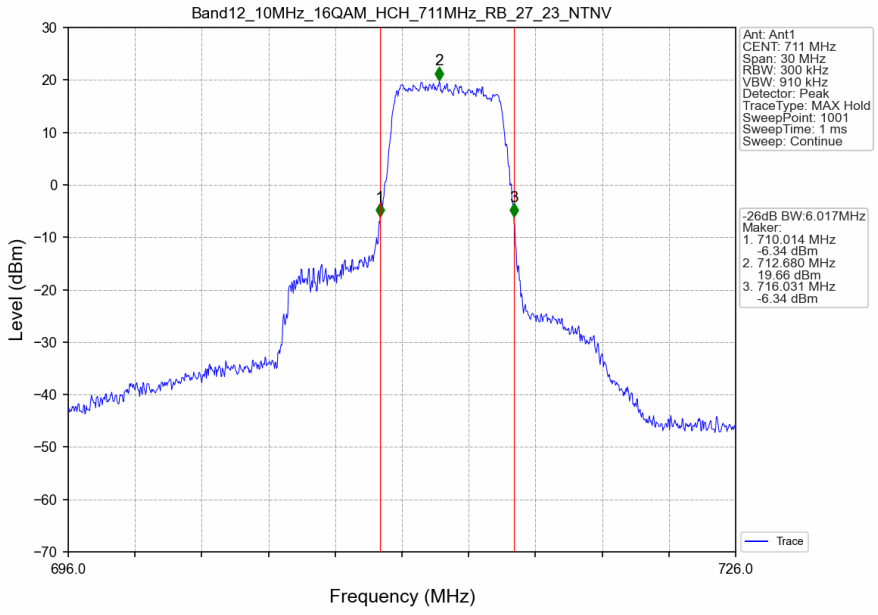
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV



4. Peak-Average Ratio

4.1 Test Result

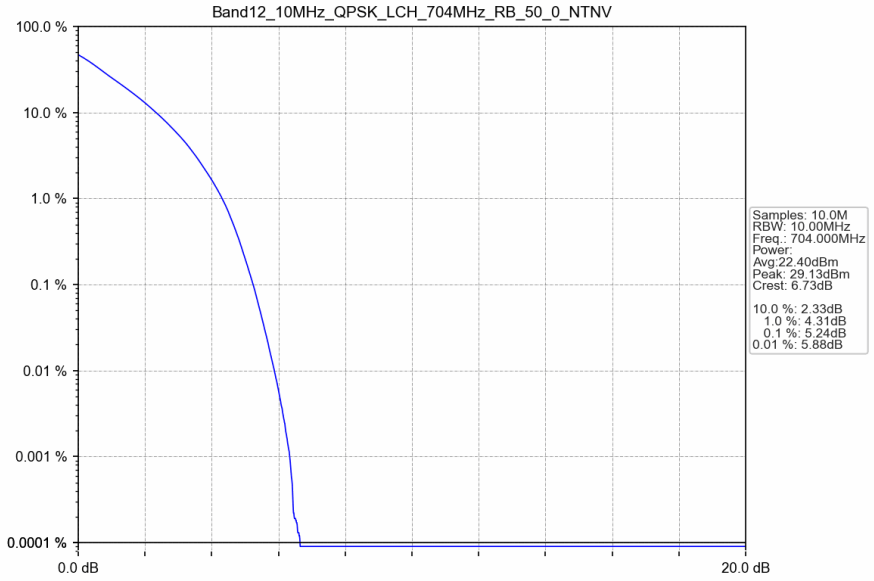
4.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.24	<=13	Pass
	707.5	50	0	5.34	<=13	Pass
	711	50	0	5.10	<=13	Pass
16QAM	704	27	0	5.74	<=13	Pass
	707.5	27	0	5.83	<=13	Pass
	711	27	23	5.72	<=13	Pass

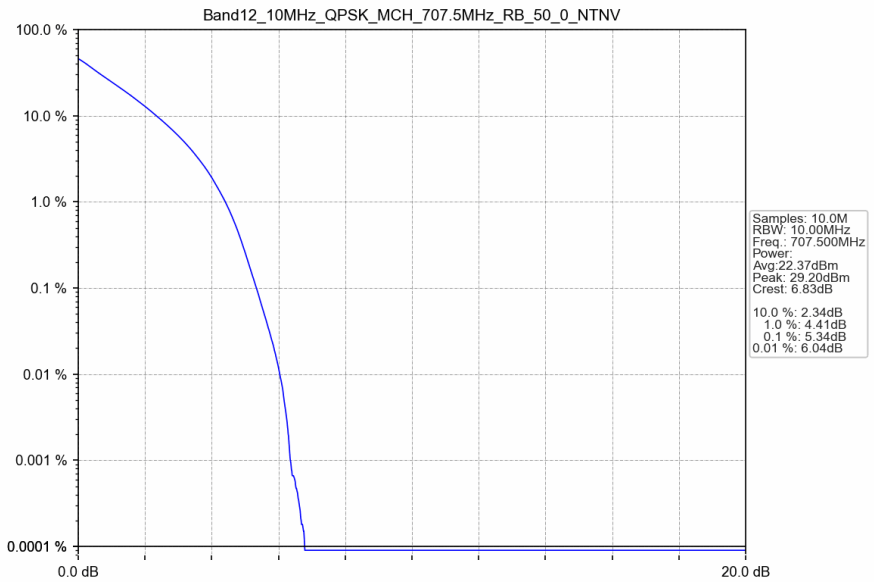
4.2 Test Graph

4.2.1 B12_10MHz

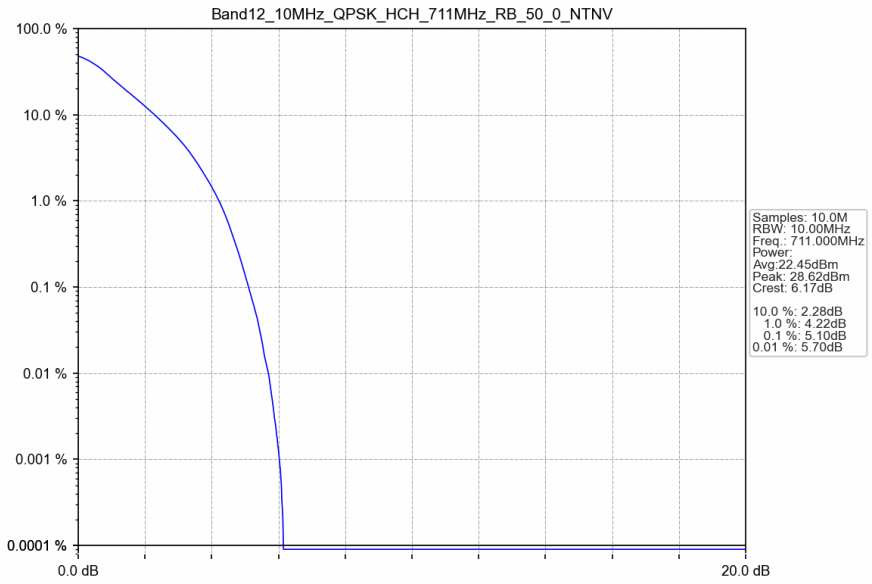
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



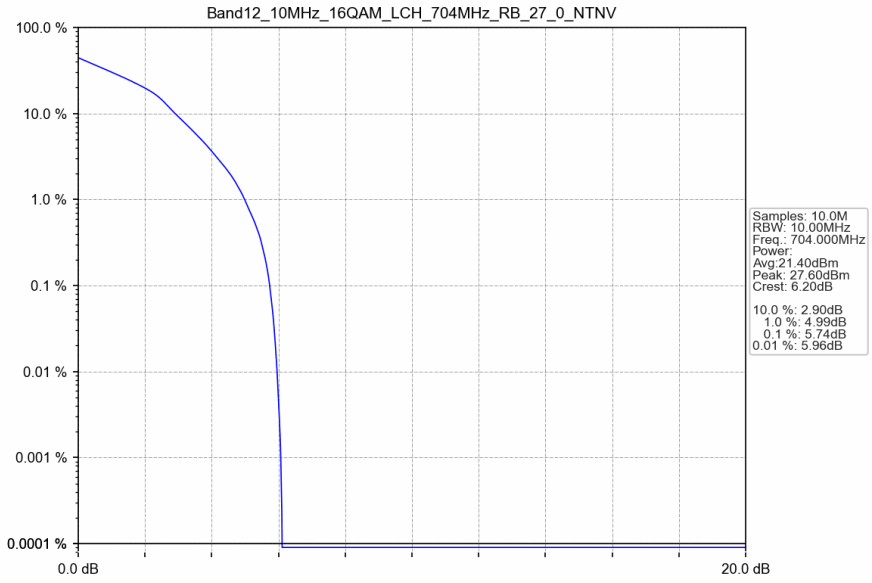
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



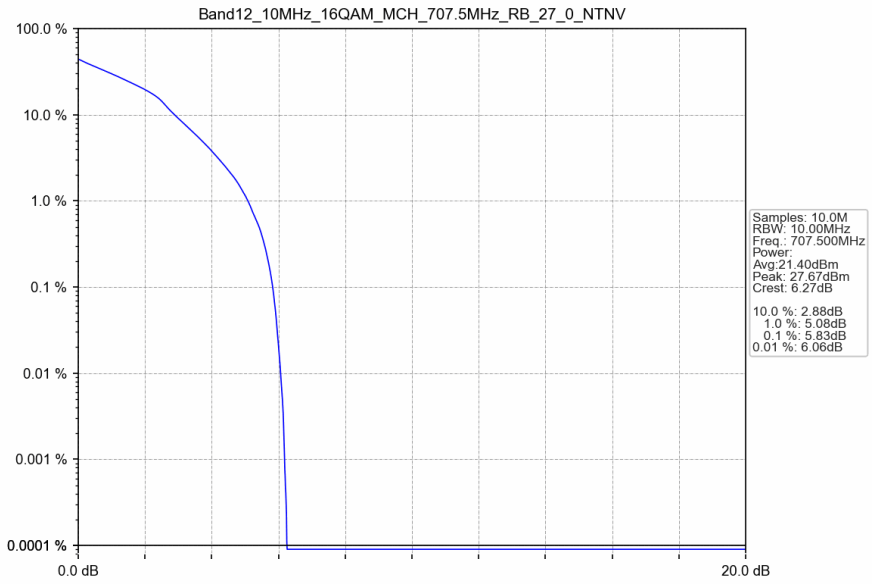
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



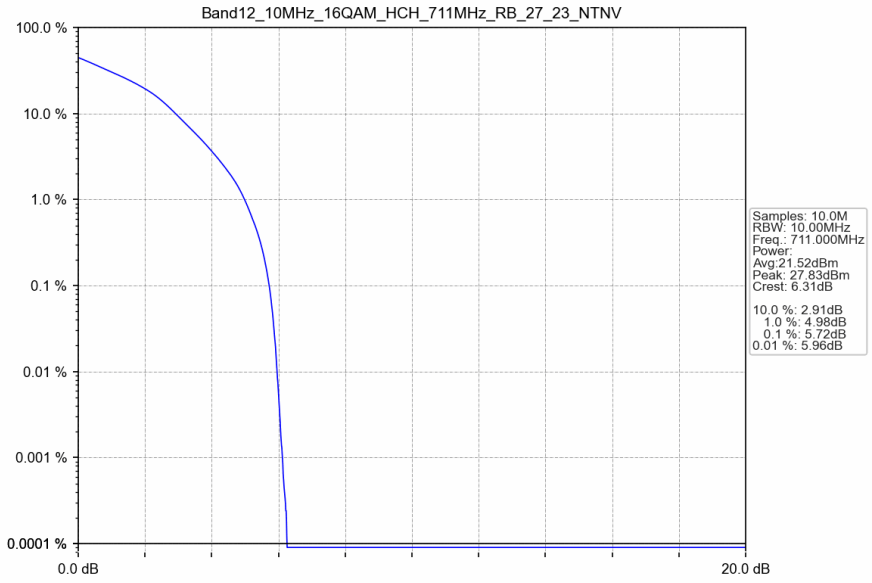
Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_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 / NTNV						
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 / NTNV						
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

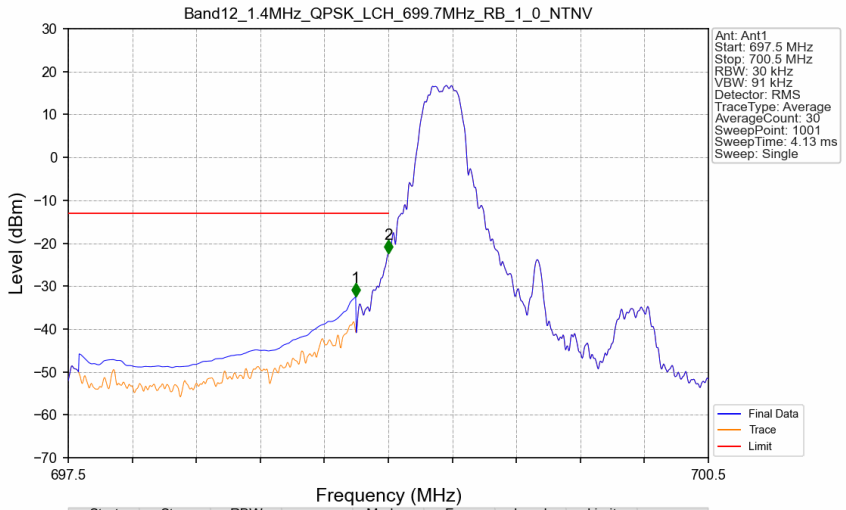
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass

	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

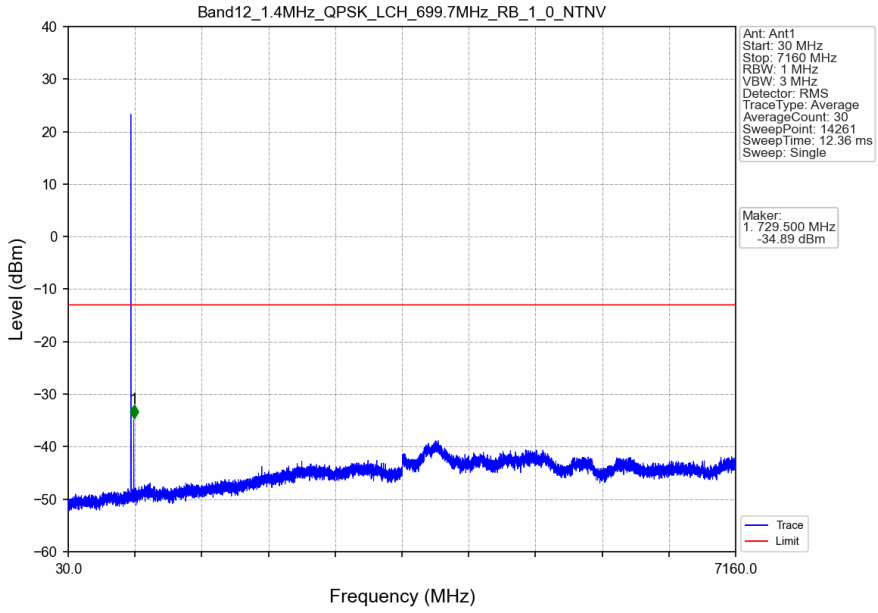
5.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

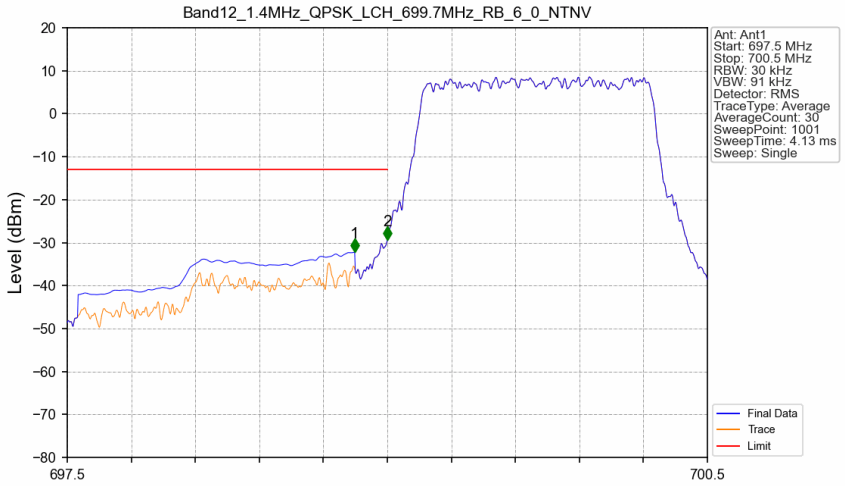


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-32.44	-13	Pass
698.9	699	0.03	/	2	699.000	-22.37	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

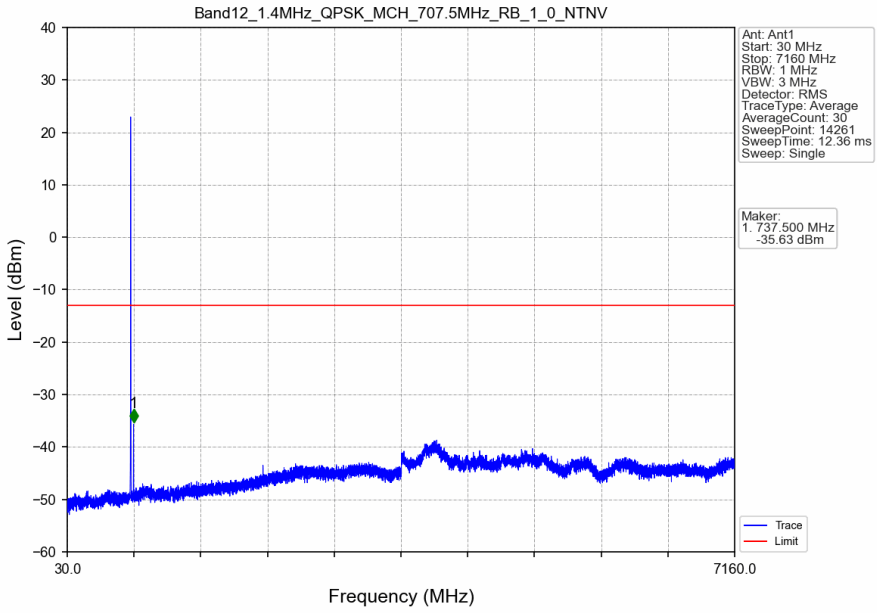


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

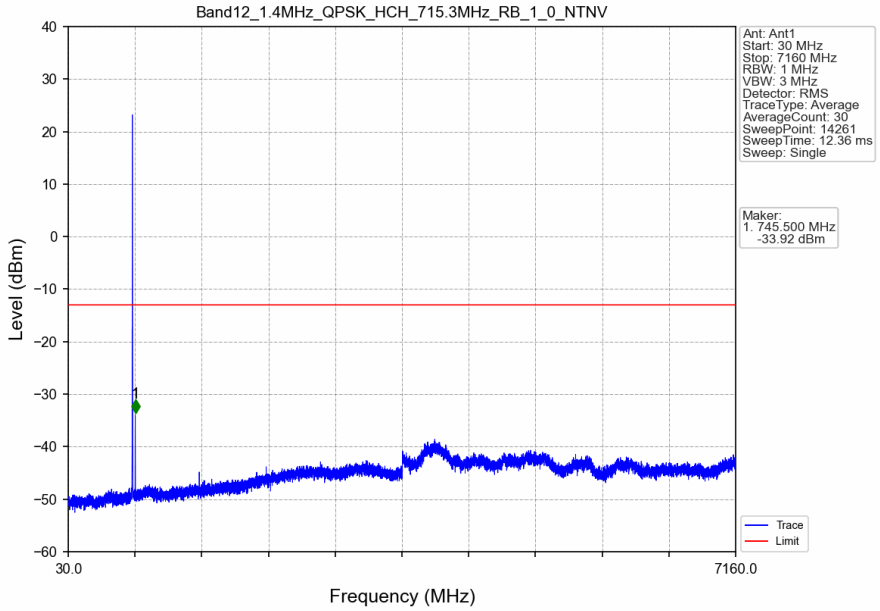


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-32.27	-13	Pass
698.9	699	0.03	/	2	699.000	-29.38	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

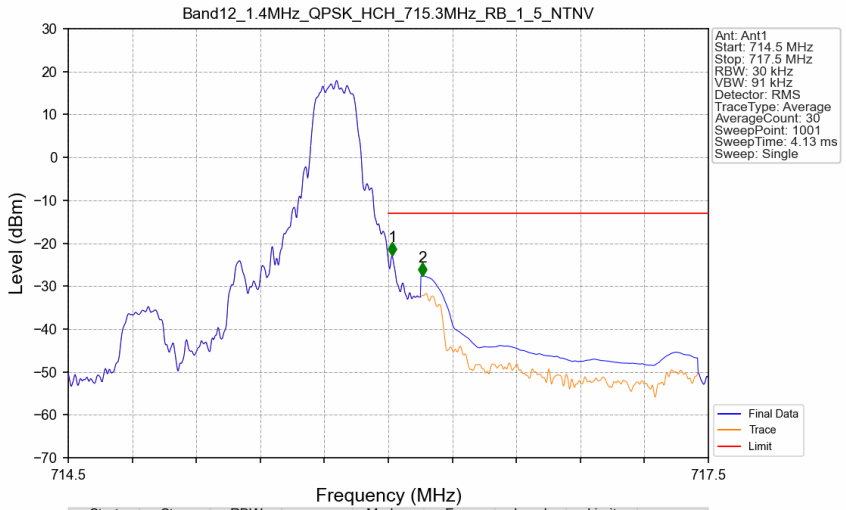
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

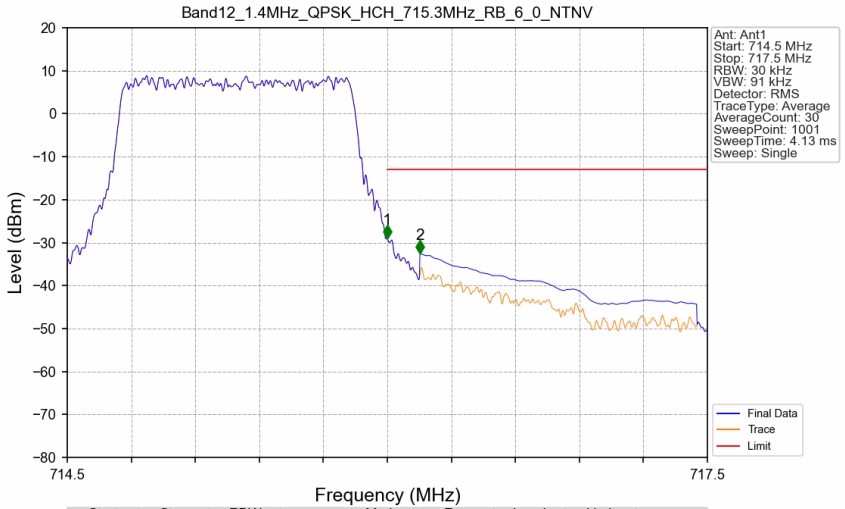


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-22.93	-13	Pass
716.1	717.5	0.1	CHP	2	716.159	-27.63	-13	Pass

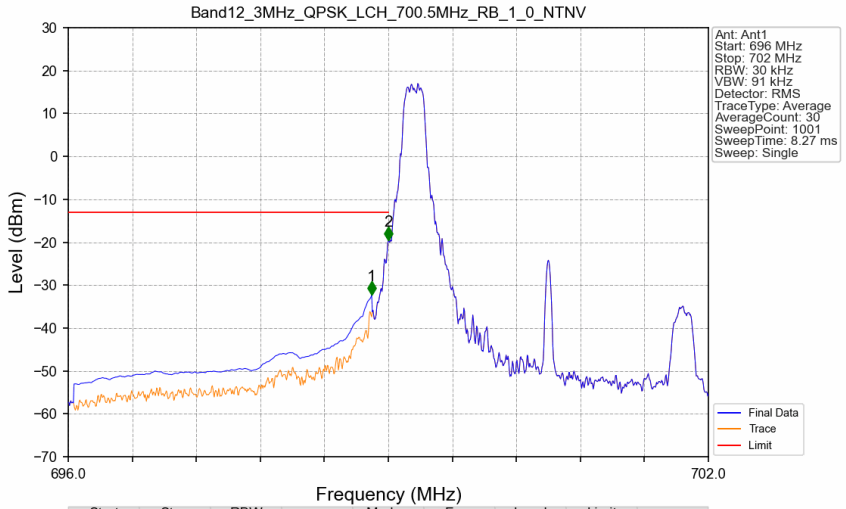
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-29.11	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-32.52	-13	Pass

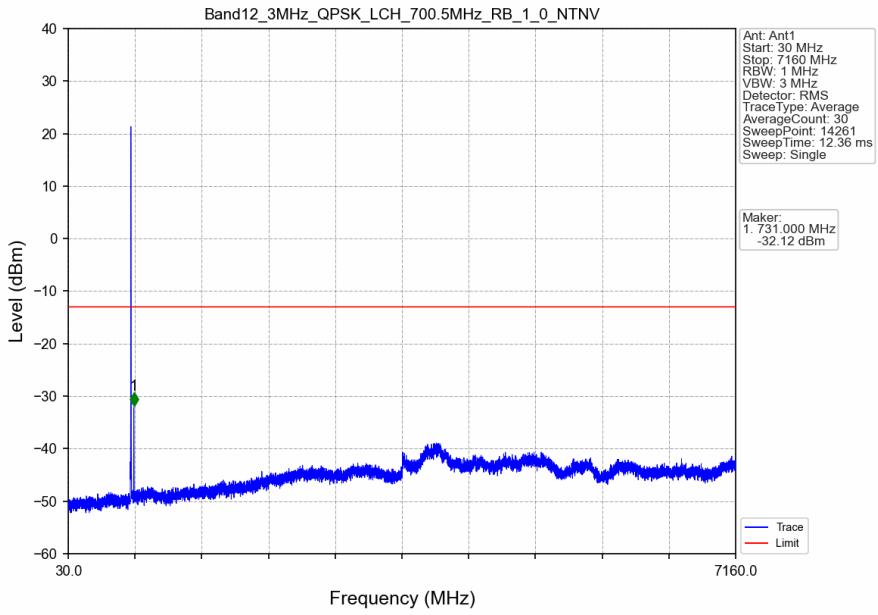
5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

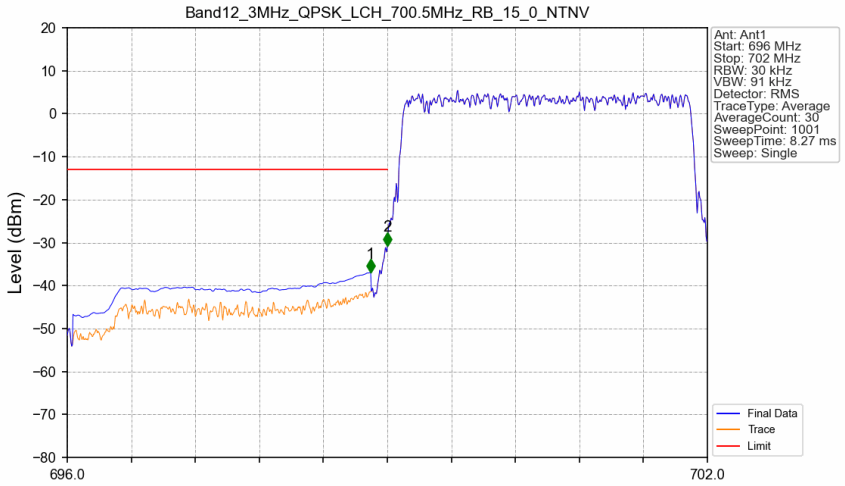


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-32.29	-13	Pass
698.9	699	0.03	/	2	699.000	-19.61	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

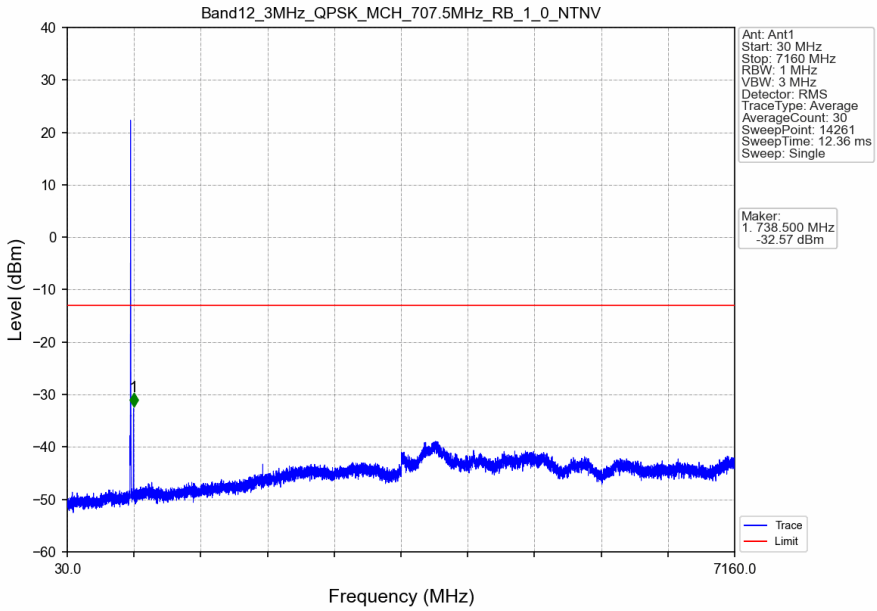


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

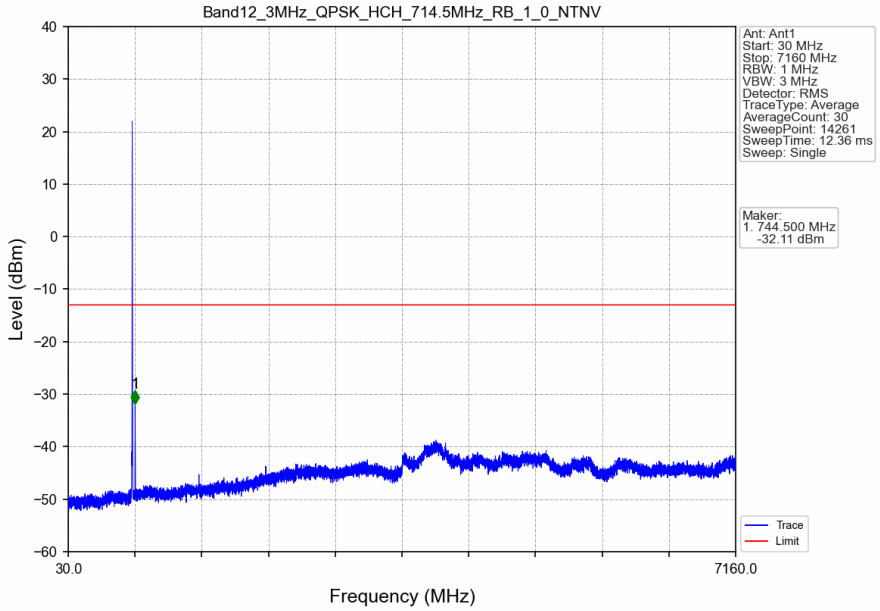


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-36.96	-13	Pass
698.9	699	0.03	/	2	699.000	-30.72	-13	Pass
699	702	0.03	/	/	/	/	/	/

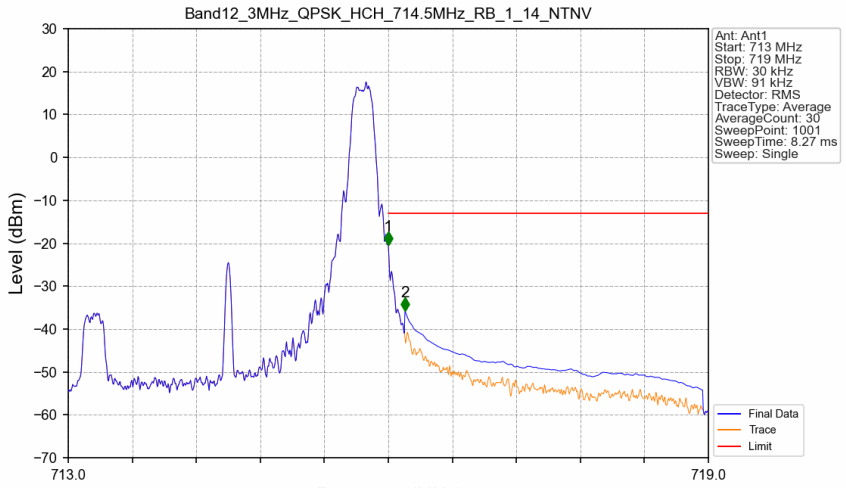
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

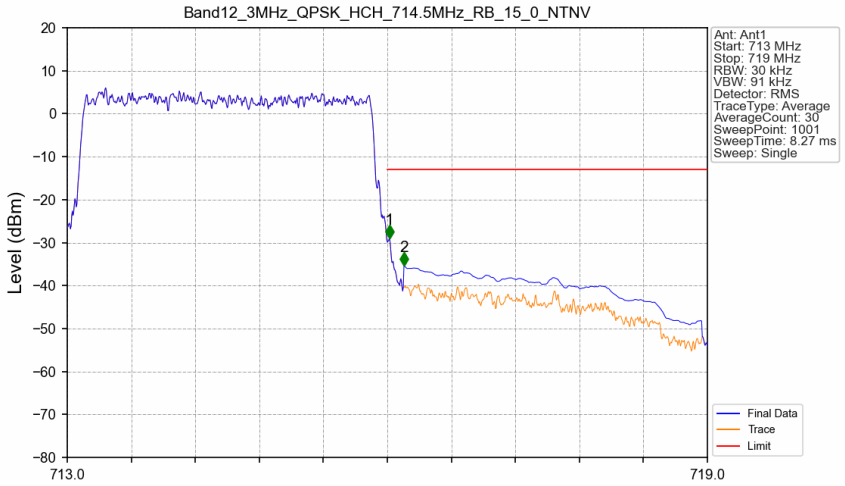


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



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	716.000	-20.45	-13	Pass
716.1	719	0.1	CHP	2	716.156	-35.78	-13	Pass

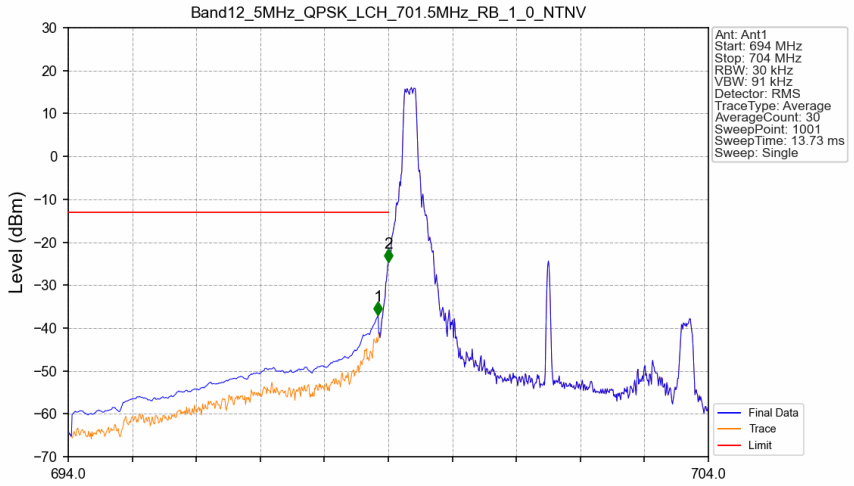
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



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	716.018	-29.06	-13	Pass
716.1	719	0.1	CHP	2	716.156	-35.36	-13	Pass

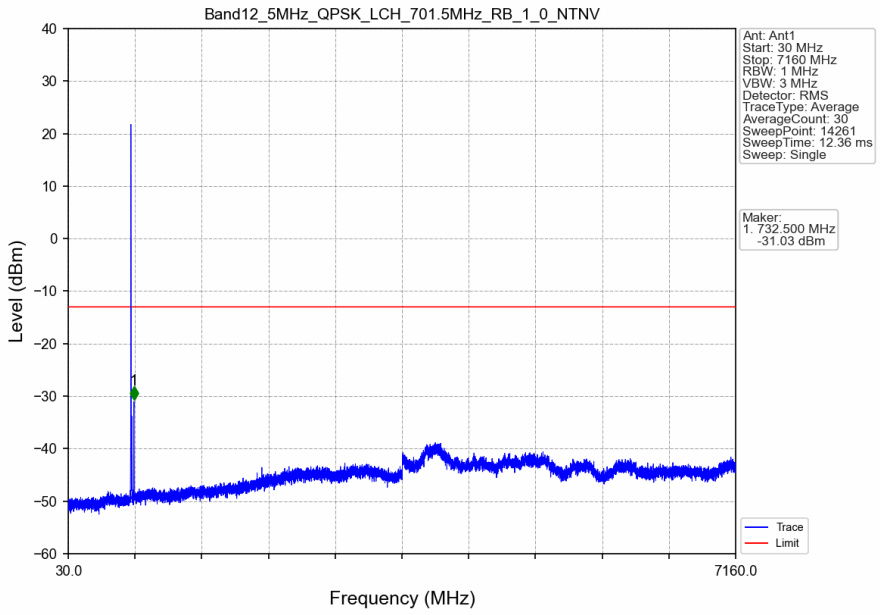
5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

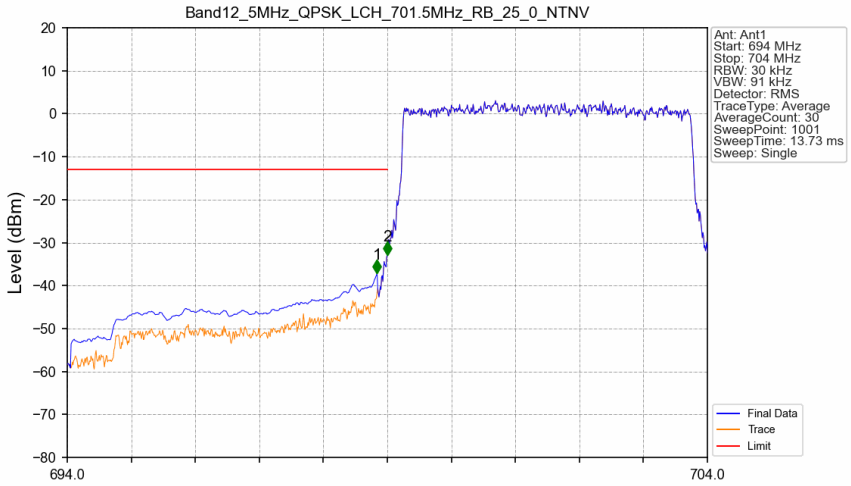


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-36.97	-13	Pass
698.9	699	0.03	/	2	699.000	-24.63	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

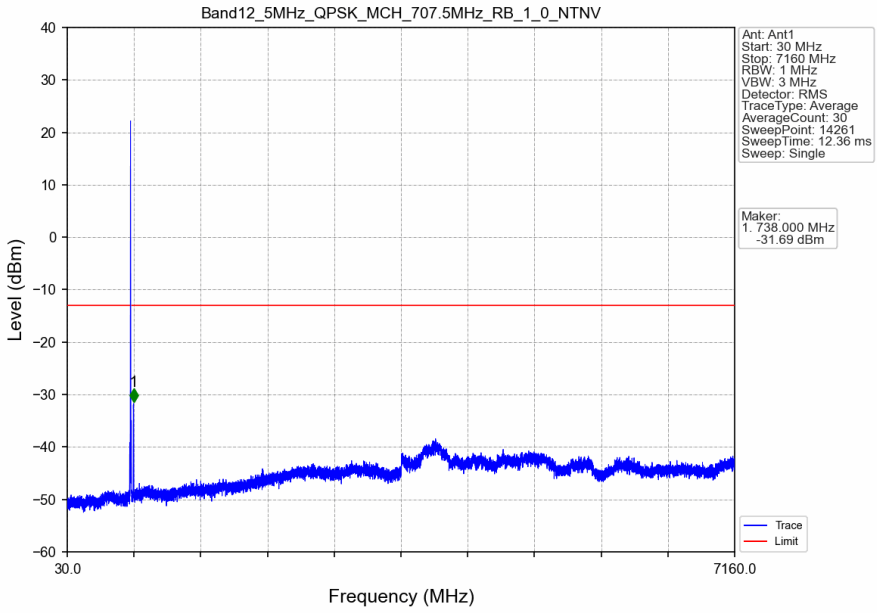


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

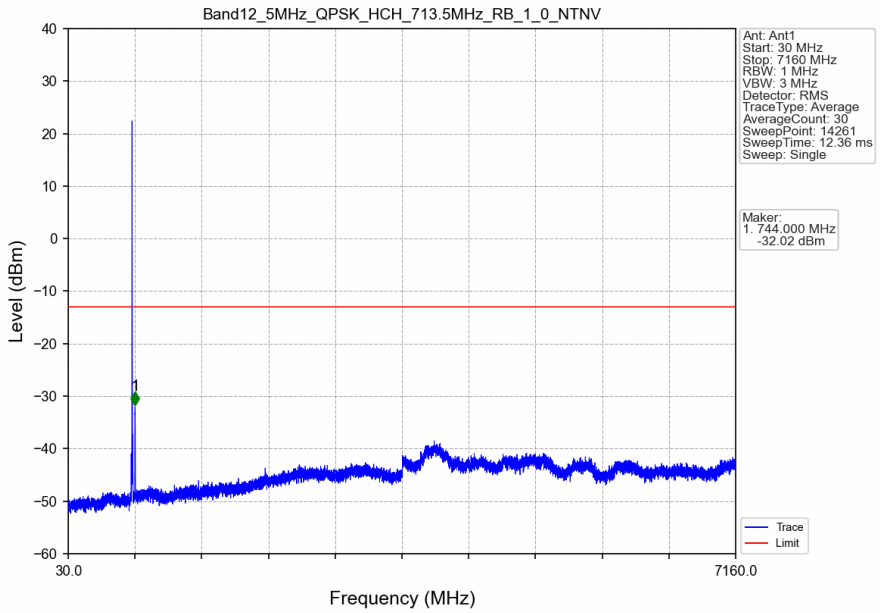


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-37.15	-13	Pass
698.9	699	0.03	/	2	699.000	-32.90	-13	Pass
699	704	0.03	/	/	/	/	/	/

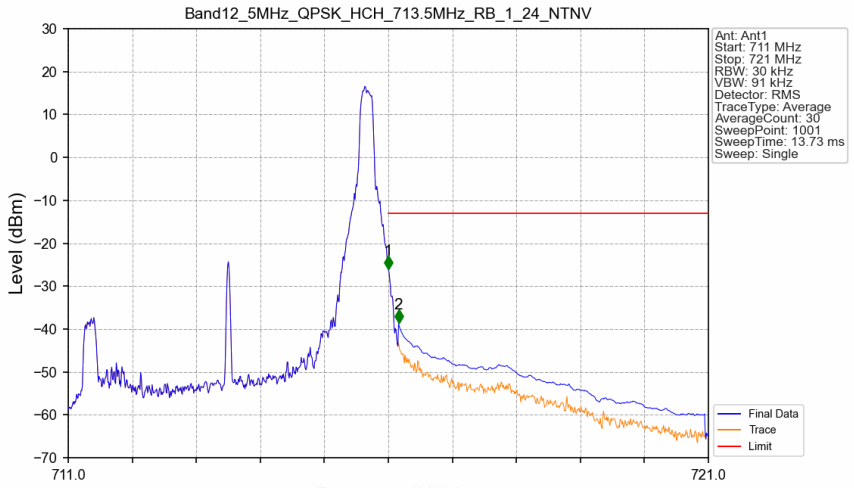
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

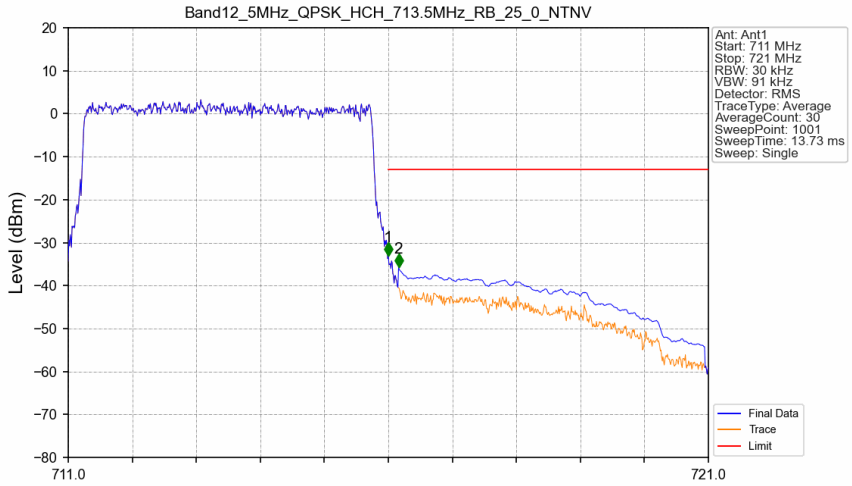


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.000	-26.04	-13	Pass
716.1	721	0.1	CHP	2	716.160	-38.66	-13	Pass

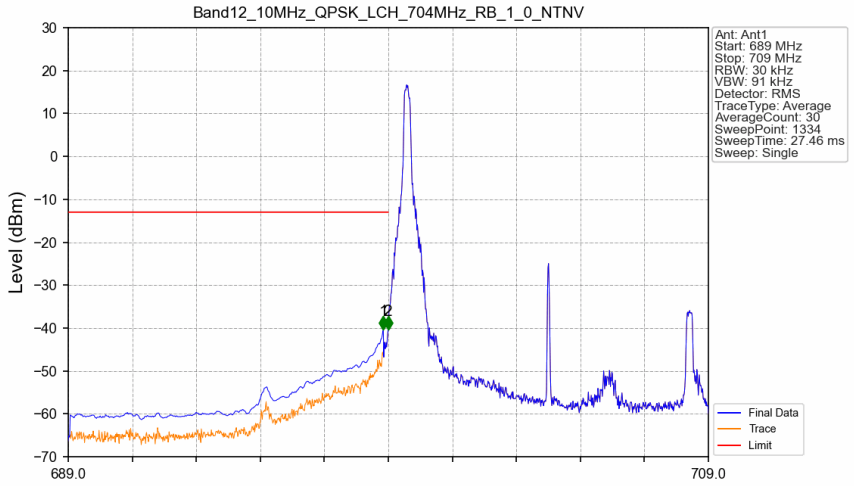
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.000	-33.15	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.75	-13	Pass

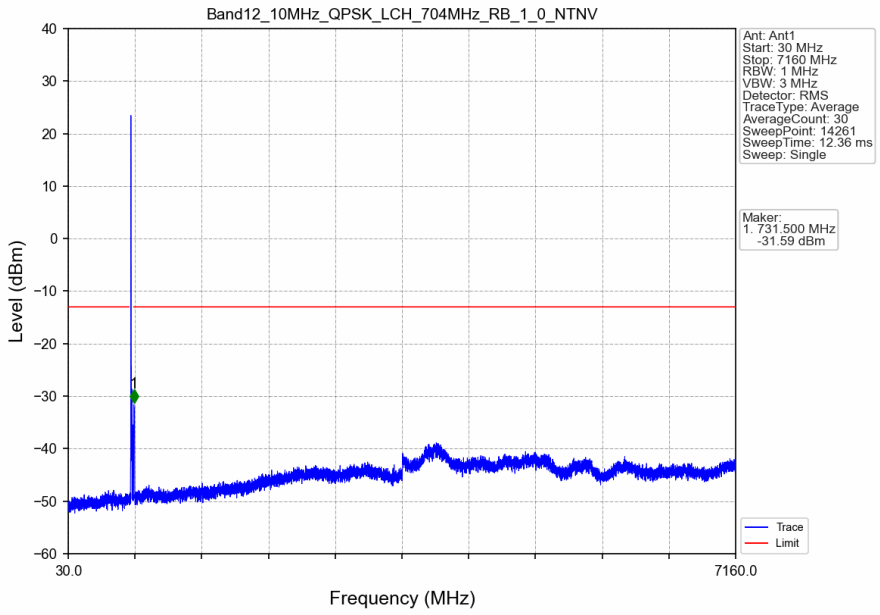
5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

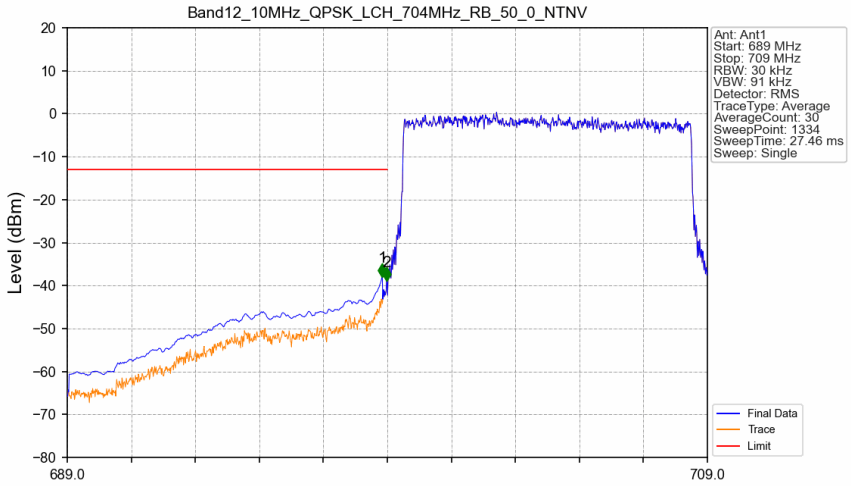


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-40.42	-13	Pass
698.9	699	0.03	/	2	698.992	-40.35	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

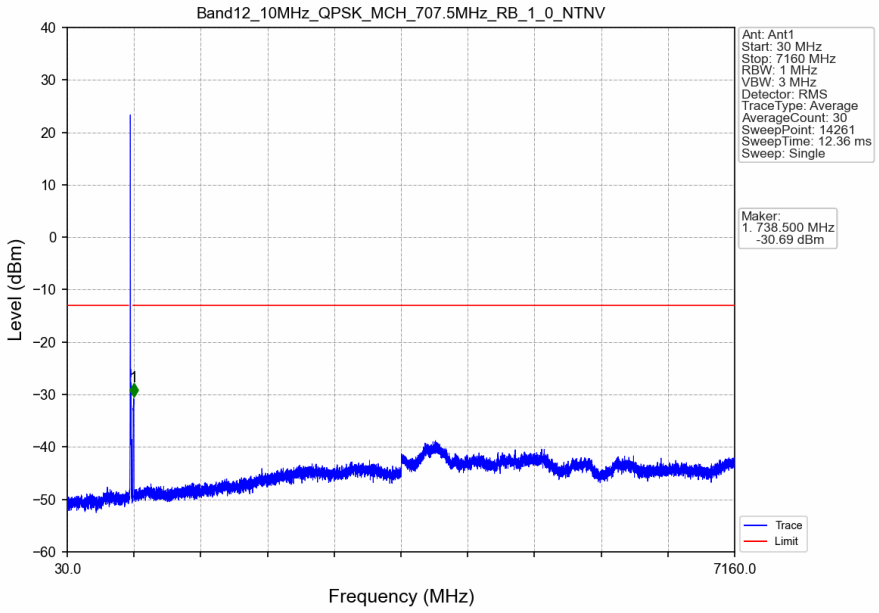


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

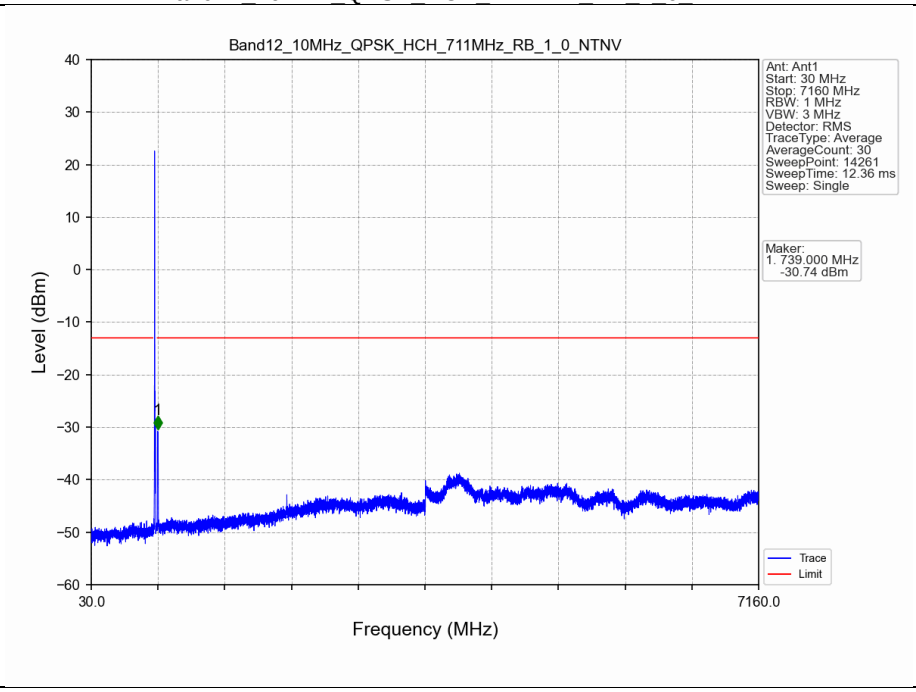


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-37.94	-13	Pass
698.9	699	0.03	/	2	698.977	-38.88	-13	Pass
699	709	0.03	/	/	/	/	/	/

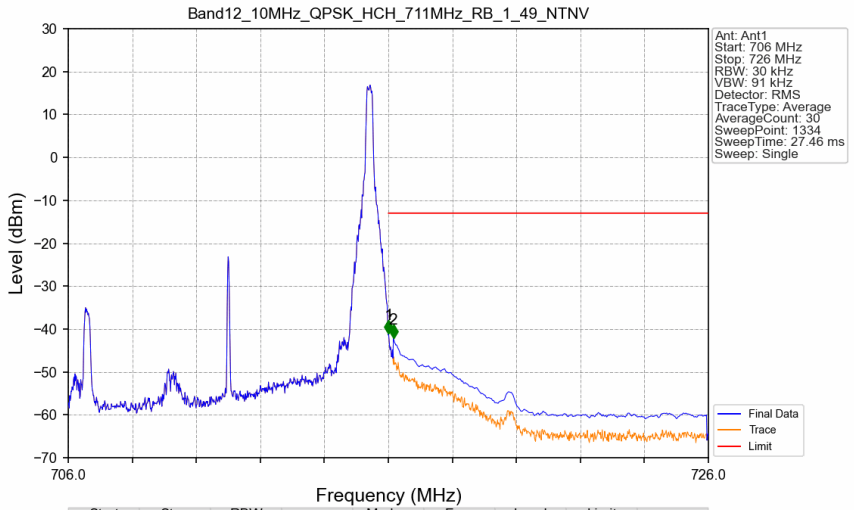
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

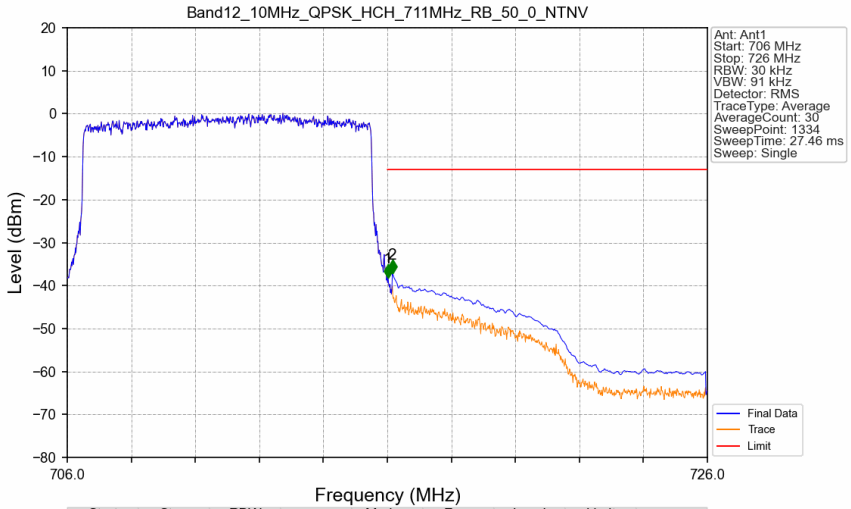


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-41.02	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.21	-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	716.023	-38.13	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.10	-13	Pass