

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B12\_1.4MHz\_ERP

### 1.1.1 Test Result

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	21.86	0.42	20.13	<=34.77	Pass		
			2	21.94	0.42	20.21	<=34.77	Pass		
			5	21.85	0.42	20.12	<=34.77	Pass		
		3	0	21.95	0.42	20.22	<=34.77	Pass		
			2	21.99	0.42	20.26	<=34.77	Pass		
			3	21.96	0.42	20.23	<=34.77	Pass		
		6	0	20.91	0.42	19.18	<=34.77	Pass		
		707.5	1	0	21.96	0.42	20.23	<=34.77	Pass	
				2	22.07	0.42	20.34	<=34.77	Pass	
	5			21.98	0.42	20.25	<=34.77	Pass		
	3		0	22.04	0.42	20.31	<=34.77	Pass		
			2	22.06	0.42	20.33	<=34.77	Pass		
			3	22.05	0.42	20.32	<=34.77	Pass		
	6		0	20.98	0.42	19.25	<=34.77	Pass		
	715.3		1	0	21.95	0.42	20.22	<=34.77	Pass	
				2	22.05	0.42	20.32	<=34.77	Pass	
		5		21.96	0.42	20.23	<=34.77	Pass		
		3	0	22.09	0.42	20.36	<=34.77	Pass		
			2	22.11	0.42	20.38	<=34.77	Pass		
			3	22.07	0.42	20.34	<=34.77	Pass		
		6	0	21.05	0.42	19.32	<=34.77	Pass		
		16QAM	699.7	1	0	21.01	0.42	19.28	<=34.77	Pass
					2	21.14	0.42	19.41	<=34.77	Pass
	5				20.98	0.42	19.25	<=34.77	Pass	
	3			0	20.94	0.42	19.21	<=34.77	Pass	
				2	20.96	0.42	19.23	<=34.77	Pass	
				3	20.94	0.42	19.21	<=34.77	Pass	
6	0			19.94	0.42	18.21	<=34.77	Pass		
707.5	1			0	20.96	0.42	19.23	<=34.77	Pass	
				2	21.06	0.42	19.33	<=34.77	Pass	
			5	21.01	0.42	19.28	<=34.77	Pass		
	3		0	21.13	0.42	19.40	<=34.77	Pass		
			2	21.05	0.42	19.32	<=34.77	Pass		
			3	21.10	0.42	19.37	<=34.77	Pass		
	6		0	19.96	0.42	18.23	<=34.77	Pass		
	715.3		1	0	20.95	0.42	19.22	<=34.77	Pass	
				2	21.08	0.42	19.35	<=34.77	Pass	
5				20.96	0.42	19.23	<=34.77	Pass		
3			0	21.22	0.42	19.49	<=34.77	Pass		
			2	21.27	0.42	19.54	<=34.77	Pass		
			3	21.25	0.42	19.52	<=34.77	Pass		
6			0	20.11	0.42	18.38	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12\_3MHz\_ERP

1.2.1 Test Result

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	21.97	0.42	20.24	<=34.77	Pass		
			7	22.09	0.42	20.36	<=34.77	Pass		
			14	21.94	0.42	20.21	<=34.77	Pass		
		8	0	20.97	0.42	19.24	<=34.77	Pass		
			4	21.00	0.42	19.27	<=34.77	Pass		
			7	20.96	0.42	19.23	<=34.77	Pass		
		15	0	20.99	0.42	19.26	<=34.77	Pass		
		707.5	1	0	22.06	0.42	20.33	<=34.77	Pass	
				7	22.22	0.42	20.49	<=34.77	Pass	
	14			22.11	0.42	20.38	<=34.77	Pass		
	8		0	21.10	0.42	19.37	<=34.77	Pass		
			4	21.11	0.42	19.38	<=34.77	Pass		
			7	21.07	0.42	19.34	<=34.77	Pass		
	15		0	21.07	0.42	19.34	<=34.77	Pass		
	714.5		1	0	22.15	0.42	20.42	<=34.77	Pass	
				7	22.29	0.42	20.56	<=34.77	Pass	
		14		22.14	0.42	20.41	<=34.77	Pass		
		8	0	21.12	0.42	19.39	<=34.77	Pass		
			4	21.18	0.42	19.45	<=34.77	Pass		
			7	21.14	0.42	19.41	<=34.77	Pass		
		15	0	21.11	0.42	19.38	<=34.77	Pass		
		16QAM	700.5	1	0	21.54	0.42	19.81	<=34.77	Pass
					7	21.68	0.42	19.95	<=34.77	Pass
	14				21.55	0.42	19.82	<=34.77	Pass	
8	0			20.18	0.42	18.45	<=34.77	Pass		
	4			20.21	0.42	18.48	<=34.77	Pass		
	7			20.17	0.42	18.44	<=34.77	Pass		
15	0			20.09	0.42	18.36	<=34.77	Pass		
707.5	1			0	21.26	0.42	19.53	<=34.77	Pass	
				7	21.37	0.42	19.64	<=34.77	Pass	
			14	21.20	0.42	19.47	<=34.77	Pass		
	8		0	20.08	0.42	18.35	<=34.77	Pass		
			4	20.16	0.42	18.43	<=34.77	Pass		
			7	20.10	0.42	18.37	<=34.77	Pass		
	15		0	20.09	0.42	18.36	<=34.77	Pass		
	714.5		1	0	21.14	0.42	19.41	<=34.77	Pass	
				7	21.25	0.42	19.52	<=34.77	Pass	
14				21.12	0.42	19.39	<=34.77	Pass		
8			0	20.20	0.42	18.47	<=34.77	Pass		
			4	20.26	0.42	18.53	<=34.77	Pass		
			7	20.23	0.42	18.50	<=34.77	Pass		
15			0	20.18	0.42	18.45	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B12\_5MHz\_ERP

1.3.1 Test Result

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	21.84	0.42	20.11	<=34.77	Pass		
			13	21.96	0.42	20.23	<=34.77	Pass		
			24	21.95	0.42	20.22	<=34.77	Pass		
		12	0	20.95	0.42	19.22	<=34.77	Pass		
			6	21.00	0.42	19.27	<=34.77	Pass		
			13	20.99	0.42	19.26	<=34.77	Pass		
		25	0	20.96	0.42	19.23	<=34.77	Pass		
		707.5	1	0	21.92	0.42	20.19	<=34.77	Pass	
				13	22.03	0.42	20.30	<=34.77	Pass	
	24			21.92	0.42	20.19	<=34.77	Pass		
	12		0	21.03	0.42	19.30	<=34.77	Pass		
			6	21.03	0.42	19.30	<=34.77	Pass		
			13	20.91	0.42	19.18	<=34.77	Pass		
	25		0	20.92	0.42	19.19	<=34.77	Pass		
	713.5		1	0	21.85	0.42	20.12	<=34.77	Pass	
				13	22.00	0.42	20.27	<=34.77	Pass	
		24		21.91	0.42	20.18	<=34.77	Pass		
		12	0	21.02	0.42	19.29	<=34.77	Pass		
			6	21.04	0.42	19.31	<=34.77	Pass		
			13	21.12	0.42	19.39	<=34.77	Pass		
		25	0	21.06	0.42	19.33	<=34.77	Pass		
		16QAM	701.5	1	0	20.71	0.42	18.98	<=34.77	Pass
					13	20.82	0.42	19.09	<=34.77	Pass
	24				20.81	0.42	19.08	<=34.77	Pass	
12	0			19.94	0.42	18.21	<=34.77	Pass		
	6			20.00	0.42	18.27	<=34.77	Pass		
	13			19.99	0.42	18.26	<=34.77	Pass		
25	0			20.02	0.42	18.29	<=34.77	Pass		
707.5	1			0	21.17	0.42	19.44	<=34.77	Pass	
				13	21.30	0.42	19.57	<=34.77	Pass	
			24	21.22	0.42	19.49	<=34.77	Pass		
	12		0	19.99	0.42	18.26	<=34.77	Pass		
			6	20.10	0.42	18.37	<=34.77	Pass		
			13	19.97	0.42	18.24	<=34.77	Pass		
	25		0	19.99	0.42	18.26	<=34.77	Pass		
	713.5		1	0	20.95	0.42	19.22	<=34.77	Pass	
				13	21.12	0.42	19.39	<=34.77	Pass	
24				21.01	0.42	19.28	<=34.77	Pass		
12			0	20.00	0.42	18.27	<=34.77	Pass		
			6	19.99	0.42	18.26	<=34.77	Pass		
			13	20.08	0.42	18.35	<=34.77	Pass		
25			0	20.13	0.42	18.40	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.4 B12\_10MHz\_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	704	1	0	21.82	0.42	20.09	<=34.77	Pass		
			25	22.10	0.42	20.37	<=34.77	Pass		
			49	21.93	0.42	20.20	<=34.77	Pass		
		25	0	20.97	0.42	19.24	<=34.77	Pass		
			13	21.06	0.42	19.33	<=34.77	Pass		
			25	21.12	0.42	19.39	<=34.77	Pass		
		50	0	21.06	0.42	19.33	<=34.77	Pass		
		707.5	1	0	21.90	0.42	20.17	<=34.77	Pass	
				25	22.19	0.42	20.46	<=34.77	Pass	
	49			21.97	0.42	20.24	<=34.77	Pass		
	25		0	20.89	0.42	19.16	<=34.77	Pass		
			13	21.05	0.42	19.32	<=34.77	Pass		
			25	20.84	0.42	19.11	<=34.77	Pass		
	50		0	20.80	0.42	19.07	<=34.77	Pass		
	711		1	0	21.99	0.42	20.26	<=34.77	Pass	
				25	22.20	0.42	20.47	<=34.77	Pass	
		49		22.05	0.42	20.32	<=34.77	Pass		
		25	0	21.22	0.42	19.49	<=34.77	Pass		
			13	21.10	0.42	19.37	<=34.77	Pass		
			25	21.12	0.42	19.39	<=34.77	Pass		
		50	0	21.18	0.42	19.45	<=34.77	Pass		
		16QAM	704	1	0	21.44	0.42	19.71	<=34.77	Pass
					25	21.74	0.42	20.01	<=34.77	Pass
	49				21.51	0.42	19.78	<=34.77	Pass	
25	0			20.09	0.42	18.36	<=34.77	Pass		
	13			20.17	0.42	18.44	<=34.77	Pass		
	25			20.22	0.42	18.49	<=34.77	Pass		
50	0			20.10	0.42	18.37	<=34.77	Pass		
707.5	1			0	21.10	0.42	19.37	<=34.77	Pass	
				25	21.35	0.42	19.62	<=34.77	Pass	
			49	21.14	0.42	19.41	<=34.77	Pass		
	25		0	19.94	0.42	18.21	<=34.77	Pass		
			13	20.12	0.42	18.39	<=34.77	Pass		
			25	19.86	0.42	18.13	<=34.77	Pass		
	50		0	19.92	0.42	18.19	<=34.77	Pass		
	711		1	0	20.96	0.42	19.23	<=34.77	Pass	
				25	21.21	0.42	19.48	<=34.77	Pass	
49				21.04	0.42	19.31	<=34.77	Pass		
25			0	20.36	0.42	18.63	<=34.77	Pass		
			13	20.20	0.42	18.47	<=34.77	Pass		
			25	20.24	0.42	18.51	<=34.77	Pass		
50			0	20.26	0.42	18.53	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B12\_1.4MHz

#### 2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-5.107	-0.0073	-2.5 to 2.5	Pass
					3.85	-10.800	-0.0154	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-7.596	-0.0109	-2.5 to 2.5	Pass
				-20	3.85	-7.296	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-10.471	-0.0150	-2.5 to 2.5	Pass
				0	3.85	-8.984	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-8.168	-0.0117	-2.5 to 2.5	Pass
				30	3.85	-12.116	-0.0173	-2.5 to 2.5	Pass
	40	3.85	-7.167	-0.0102	-2.5 to 2.5	Pass			
	50	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	-9.155	-0.0129	-2.5 to 2.5	Pass
					3.85	-12.789	-0.0181	-2.5 to 2.5	Pass
					4.43	-11.358	-0.0161	-2.5 to 2.5	Pass
				-30	3.85	-9.284	-0.0131	-2.5 to 2.5	Pass
				-20	3.85	-11.702	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-5.693	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-31.829	-0.0450	-2.5 to 2.5	Pass
				30	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
	40	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass			
	50	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	-5.322	-0.0074	-2.5 to 2.5	Pass
					3.85	-10.157	-0.0142	-2.5 to 2.5	Pass
					4.43	-10.242	-0.0143	-2.5 to 2.5	Pass
				-30	3.85	-7.367	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-7.968	-0.0111	-2.5 to 2.5	Pass
-10				3.85	-6.280	-0.0088	-2.5 to 2.5	Pass	
0				3.85	-6.237	-0.0087	-2.5 to 2.5	Pass	
10				3.85	-6.738	-0.0094	-2.5 to 2.5	Pass	
30				3.85	-7.582	-0.0106	-2.5 to 2.5	Pass	
40	3.85	-4.091	-0.0057	-2.5 to 2.5	Pass				
50	3.85	-3.934	-0.0055	-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-5.479	-0.0078	-2.5 to 2.5	Pass
					3.85	-10.729	-0.0153	-2.5 to 2.5	Pass
					4.43	-8.297	-0.0119	-2.5 to 2.5	Pass
				-30	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-13.103	-0.0187	-2.5 to 2.5	Pass
				10	3.85	-7.482	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-9.899	-0.0141	-2.5 to 2.5	Pass
40	3.85	-5.593	-0.0080	-2.5 to 2.5	Pass				
50	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass				

	707.5	6	0	20	3.27	-5.465	-0.0077	-2.5 to 2.5	Pass
					3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
					4.43	-7.296	-0.0103	-2.5 to 2.5	Pass
				-30	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-27.194	-0.0384	-2.5 to 2.5	Pass
				-10	3.85	-7.811	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-9.456	-0.0134	-2.5 to 2.5	Pass
				30	3.85	-4.177	-0.0059	-2.5 to 2.5	Pass
	40	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass			
	50	3.85	-10.071	-0.0142	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	-0.501	-0.0007	-2.5 to 2.5	Pass
					3.85	-8.440	-0.0118	-2.5 to 2.5	Pass
					4.43	-8.097	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-4.449	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-6.924	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-5.736	-0.0080	-2.5 to 2.5	Pass
10				3.85	-7.181	-0.0100	-2.5 to 2.5	Pass	
30				3.85	-5.693	-0.0080	-2.5 to 2.5	Pass	
40	3.85	-7.968	-0.0111	-2.5 to 2.5	Pass				
50	3.85	-3.719	-0.0052	-2.5 to 2.5	Pass				

## 2.2 B12\_3MHz

### 2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-2.117	-0.0030	-2.5 to 2.5	Pass
					3.85	-12.259	-0.0175	-2.5 to 2.5	Pass
					4.43	-9.770	-0.0139	-2.5 to 2.5	Pass
				-30	3.85	-10.343	-0.0148	-2.5 to 2.5	Pass
				-20	3.85	-13.862	-0.0198	-2.5 to 2.5	Pass
				-10	3.85	-8.197	-0.0117	-2.5 to 2.5	Pass
				0	3.85	-7.353	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-8.669	-0.0124	-2.5 to 2.5	Pass
				30	3.85	-11.301	-0.0161	-2.5 to 2.5	Pass
	40	3.85	-5.379	-0.0077	-2.5 to 2.5	Pass			
	50	3.85	-5.050	-0.0072	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-2.003	-0.0028	-2.5 to 2.5	Pass
					3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-2.532	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
10				3.85	-4.892	-0.0069	-2.5 to 2.5	Pass	
30				3.85	-1.402	-0.0020	-2.5 to 2.5	Pass	
40	3.85	-11.029	-0.0156	-2.5 to 2.5	Pass				
50	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass				



	714.5	15	0	20	3.27	-5.593	-0.0078	-2.5 to 2.5	Pass					
					3.85	-8.941	-0.0125	-2.5 to 2.5	Pass					
					4.43	-10.757	-0.0151	-2.5 to 2.5	Pass					
								-30	3.85	-11.644	-0.0163	-2.5 to 2.5	Pass	
								-20	3.85	-5.450	-0.0076	-2.5 to 2.5	Pass	
								-10	3.85	-2.747	-0.0038	-2.5 to 2.5	Pass	
								0	3.85	-6.566	-0.0092	-2.5 to 2.5	Pass	
								10	3.85	-6.223	-0.0087	-2.5 to 2.5	Pass	
								30	3.85	-8.783	-0.0123	-2.5 to 2.5	Pass	
								40	3.85	-7.954	-0.0111	-2.5 to 2.5	Pass	
								50	3.85	-3.190	-0.0045	-2.5 to 2.5	Pass	
								16QAM	700.5	15	0	20	3.27	-8.068
3.85	-5.393	-0.0077	-2.5 to 2.5	Pass										
4.43	-7.710	-0.0110	-2.5 to 2.5	Pass										
				-30	3.85	-11.201	-0.0160					-2.5 to 2.5	Pass	
				-20	3.85	-7.310	-0.0104					-2.5 to 2.5	Pass	
				-10	3.85	-8.698	-0.0124					-2.5 to 2.5	Pass	
				0	3.85	-10.099	-0.0144					-2.5 to 2.5	Pass	
				10	3.85	-5.836	-0.0083					-2.5 to 2.5	Pass	
				30	3.85	-8.483	-0.0121					-2.5 to 2.5	Pass	
				40	3.85	-9.999	-0.0143					-2.5 to 2.5	Pass	
				50	3.85	-6.108	-0.0087					-2.5 to 2.5	Pass	
					707.5	15	0					20	3.27	-9.441
3.85	-8.969	-0.0127	-2.5 to 2.5						Pass					
4.43	-4.435	-0.0063	-2.5 to 2.5						Pass					
									-30	3.85	-7.424	-0.0105	-2.5 to 2.5	Pass
									-20	3.85	0.257	0.0004	-2.5 to 2.5	Pass
									-10	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
									0	3.85	-2.232	-0.0032	-2.5 to 2.5	Pass
									10	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
									30	3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
									40	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
									50	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
										714.5	15	0	20	3.27
3.85	-7.396	-0.0104	-2.5 to 2.5	Pass										
4.43	-1.359	-0.0019	-2.5 to 2.5	Pass										
				-30	3.85	-4.478	-0.0063	-2.5 to 2.5					Pass	
				-20	3.85	-8.211	-0.0115	-2.5 to 2.5					Pass	
				-10	3.85	-11.458	-0.0160	-2.5 to 2.5					Pass	
				0	3.85	-4.449	-0.0062	-2.5 to 2.5					Pass	
				10	3.85	-7.281	-0.0102	-2.5 to 2.5					Pass	
				30	3.85	-0.801	-0.0011	-2.5 to 2.5					Pass	
				40	3.85	-1.044	-0.0015	-2.5 to 2.5					Pass	
				50	3.85	-11.473	-0.0161	-2.5 to 2.5					Pass	

## 2.3 B12\_5MHz

### 2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	



QPSK	701.5	25	0	20	3.27	-4.735	-0.0067	-2.5 to 2.5	Pass	
					3.85	-7.539	-0.0107	-2.5 to 2.5	Pass	
					4.43	-8.640	-0.0123	-2.5 to 2.5	Pass	
				-30	3.85	-8.383	-0.0120	-2.5 to 2.5	Pass	
					-20	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
						3.85	-6.351	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-8.454	-0.0121	-2.5 to 2.5	Pass	
					10	3.85	-5.178	-0.0074	-2.5 to 2.5	Pass
				30	3.85	-9.341	-0.0133	-2.5 to 2.5	Pass	
	40	3.85	-4.320		-0.0062	-2.5 to 2.5	Pass			
	50	3.85	-6.566	-0.0094	-2.5 to 2.5	Pass				
	707.5	25	0	20	3.27	-2.789	-0.0039	-2.5 to 2.5	Pass	
					3.85	-7.939	-0.0112	-2.5 to 2.5	Pass	
					4.43	-7.210	-0.0102	-2.5 to 2.5	Pass	
				-30	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass	
					-20	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass
						3.85	-9.871	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-7.095	-0.0100	-2.5 to 2.5	Pass	
					10	3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass	
	40	3.85	-2.017		-0.0029	-2.5 to 2.5	Pass			
	50	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass				
	713.5	25	0	20	3.27	-6.309	-0.0088	-2.5 to 2.5	Pass	
					3.85	-12.002	-0.0168	-2.5 to 2.5	Pass	
					4.43	-8.140	-0.0114	-2.5 to 2.5	Pass	
				-30	3.85	-9.112	-0.0128	-2.5 to 2.5	Pass	
					-20	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
3.85						-6.752	-0.0095	-2.5 to 2.5	Pass	
0				3.85	-7.095	-0.0099	-2.5 to 2.5	Pass		
				10	3.85	-6.151	-0.0086	-2.5 to 2.5	Pass	
30				3.85	-7.653	-0.0107	-2.5 to 2.5	Pass		
	40	3.85	-5.164	-0.0072	-2.5 to 2.5	Pass				
50	3.85	-7.882	-0.0110	-2.5 to 2.5	Pass					
16QAM	701.5	25	0	20	3.27	-6.094	-0.0087	-2.5 to 2.5	Pass	
					3.85	-1.316	-0.0019	-2.5 to 2.5	Pass	
					4.43	-10.586	-0.0151	-2.5 to 2.5	Pass	
				-30	3.85	-1.588	-0.0023	-2.5 to 2.5	Pass	
					-20	3.85	-8.354	-0.0119	-2.5 to 2.5	Pass
						3.85	-9.313	-0.0133	-2.5 to 2.5	Pass
				0	3.85	-4.950	-0.0071	-2.5 to 2.5	Pass	
					10	3.85	-5.236	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-6.337	-0.0090	-2.5 to 2.5	Pass	
	40	3.85	-12.674		-0.0181	-2.5 to 2.5	Pass			
	50	3.85	-6.738	-0.0096	-2.5 to 2.5	Pass				
	707.5	25	0	20	3.27	-9.742	-0.0138	-2.5 to 2.5	Pass	
					3.85	-4.849	-0.0069	-2.5 to 2.5	Pass	
					4.43	-5.422	-0.0077	-2.5 to 2.5	Pass	
				-30	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass	
					-20	3.85	-7.768	-0.0110	-2.5 to 2.5	Pass
						3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-5.679	-0.0080	-2.5 to 2.5	Pass	
					10	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass	
	40	3.85	-9.341		-0.0132	-2.5 to 2.5	Pass			



	713.5	25	0	50	3.85	-6.938	-0.0098	-2.5 to 2.5	Pass
				20	3.27	-5.293	-0.0074	-2.5 to 2.5	Pass
					3.85	-4.449	-0.0062	-2.5 to 2.5	Pass
				-30	4.43	-5.150	-0.0072	-2.5 to 2.5	Pass
					3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-3.648	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-5.708	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-4.020	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-1.774	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-8.698	-0.0122	-2.5 to 2.5	Pass
				40	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-8.140	-0.0114	-2.5 to 2.5	Pass

## 2.4 B12\_10MHz

### 2.4.1 Test Result

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	-4.148	-0.0059	-2.5 to 2.5	Pass
					3.85	-8.841	-0.0126	-2.5 to 2.5	Pass
					4.43	-7.510	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-8.254	-0.0117	-2.5 to 2.5	Pass
				-20	3.85	-6.981	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-6.123	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-2.718	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-5.035	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-6.080	-0.0086	-2.5 to 2.5	Pass
				707.5	50	0	20	3.27	-6.194
	3.85	-7.796	-0.0110					-2.5 to 2.5	Pass
	4.43	-3.505	-0.0050					-2.5 to 2.5	Pass
	-30	3.85	-5.522				-0.0078	-2.5 to 2.5	Pass
	-20	3.85	-4.005				-0.0057	-2.5 to 2.5	Pass
	-10	3.85	-6.323				-0.0089	-2.5 to 2.5	Pass
	0	3.85	-5.379				-0.0076	-2.5 to 2.5	Pass
	10	3.85	-4.735				-0.0067	-2.5 to 2.5	Pass
	30	3.85	-5.736				-0.0081	-2.5 to 2.5	Pass
	40	3.85	-7.753				-0.0110	-2.5 to 2.5	Pass
	50	3.85	-4.206				-0.0059	-2.5 to 2.5	Pass
	711	50	0				20	3.27	-6.237
				3.85	-5.994	-0.0084		-2.5 to 2.5	Pass
				4.43	-5.236	-0.0074		-2.5 to 2.5	Pass
				-30	3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-9.441	-0.0133	-2.5 to 2.5	Pass
				0	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-5.007	-0.0070	-2.5 to 2.5	Pass
30				3.85	-4.792	-0.0067	-2.5 to 2.5	Pass	
40				3.85	-5.422	-0.0076	-2.5 to 2.5	Pass	

16QAM	704	50	0	50	3.85	-6.094	-0.0086	-2.5 to 2.5	Pass
					3.27	-3.662	-0.0052	-2.5 to 2.5	Pass
				20	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass
					4.43	-7.768	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-6.752	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-6.795	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-7.281	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-6.080	-0.0086	-2.5 to 2.5	Pass
				30	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
	40	3.85	-6.795	-0.0097	-2.5 to 2.5	Pass			
	50	3.85	-3.247	-0.0046	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.27	-3.762	-0.0053	-2.5 to 2.5	Pass
					3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
					4.43	-5.465	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-5.336	-0.0075	-2.5 to 2.5	Pass
				-20	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-5.465	-0.0077	-2.5 to 2.5	Pass
				0	3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-5.965	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-3.819	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
	50	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-5.236	-0.0074	-2.5 to 2.5	Pass
					3.85	-8.483	-0.0119	-2.5 to 2.5	Pass
					4.43	-6.437	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-4.349	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-7.739	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0097	-2.5 to 2.5	Pass
10				3.85	-2.418	-0.0034	-2.5 to 2.5	Pass	
30				3.85	-4.492	-0.0063	-2.5 to 2.5	Pass	
40				3.85	-3.719	-0.0052	-2.5 to 2.5	Pass	
50	3.85	-7.181	-0.0101	-2.5 to 2.5	Pass				

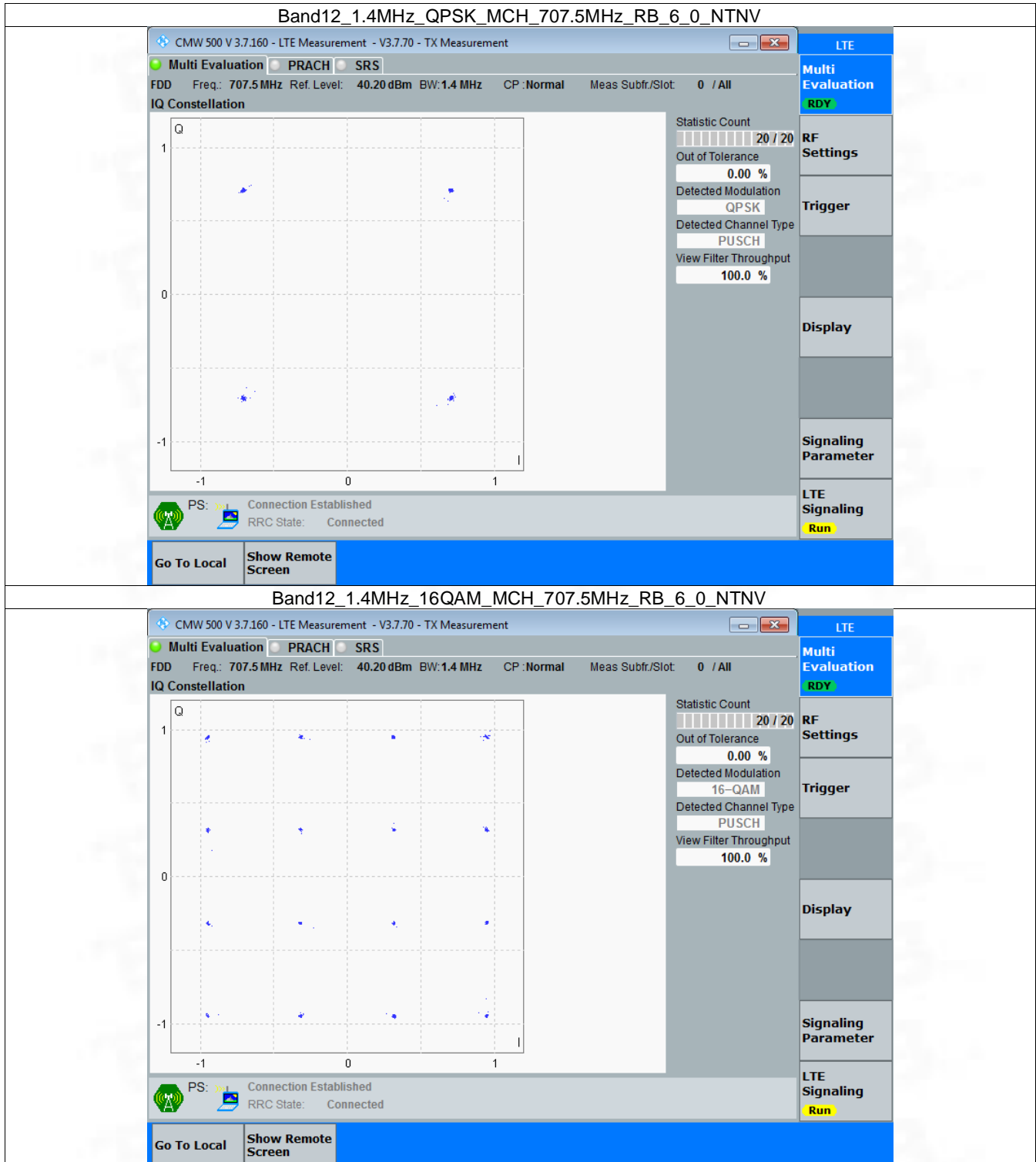
### 3. Modulation Characteristics

#### 3.1 B12\_1.4MHz

##### 3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

### 3.1.2 Test Graph

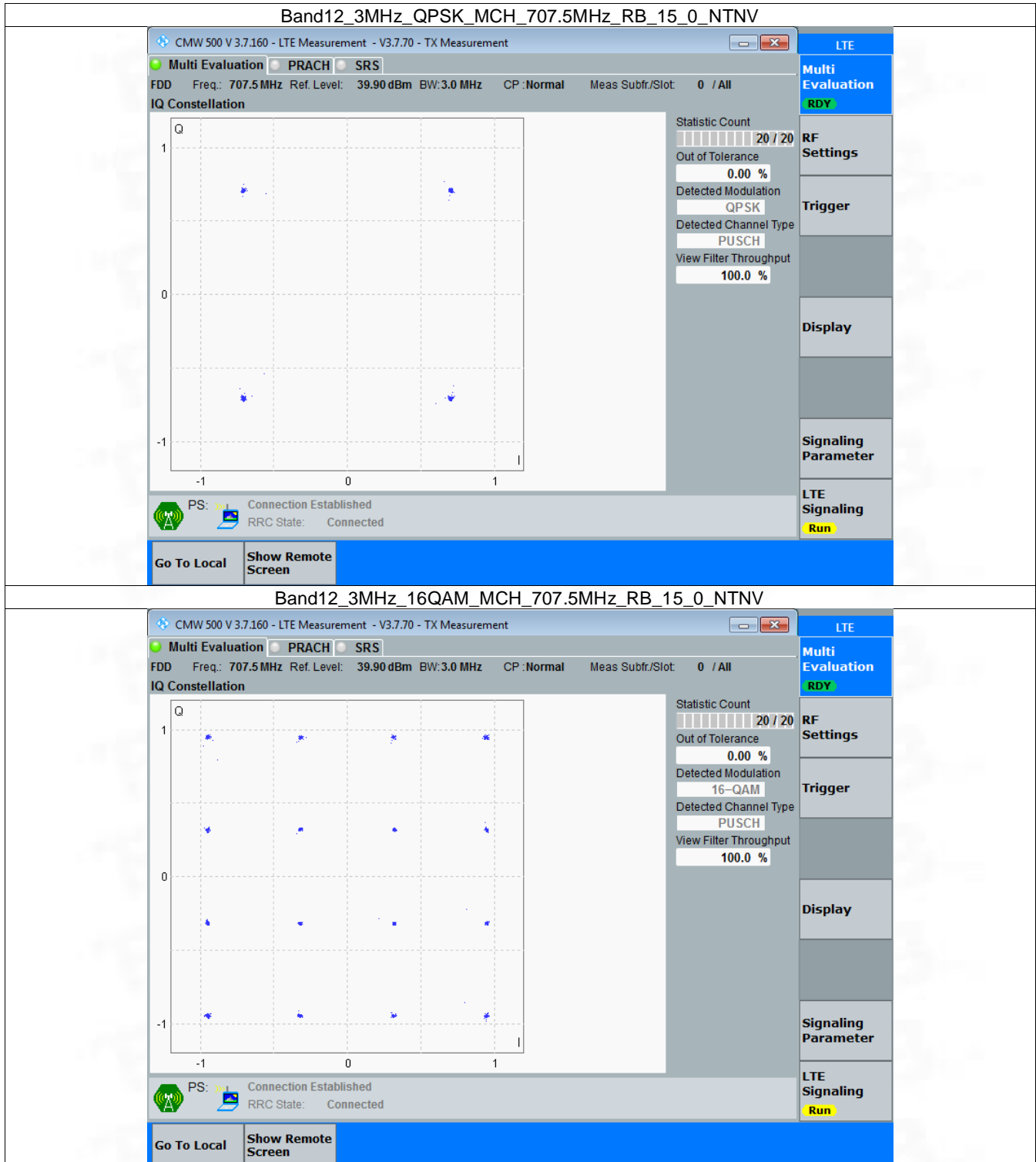


### 3.2 B12\_3MHz

#### 3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

### 3.2.2 Test Graph

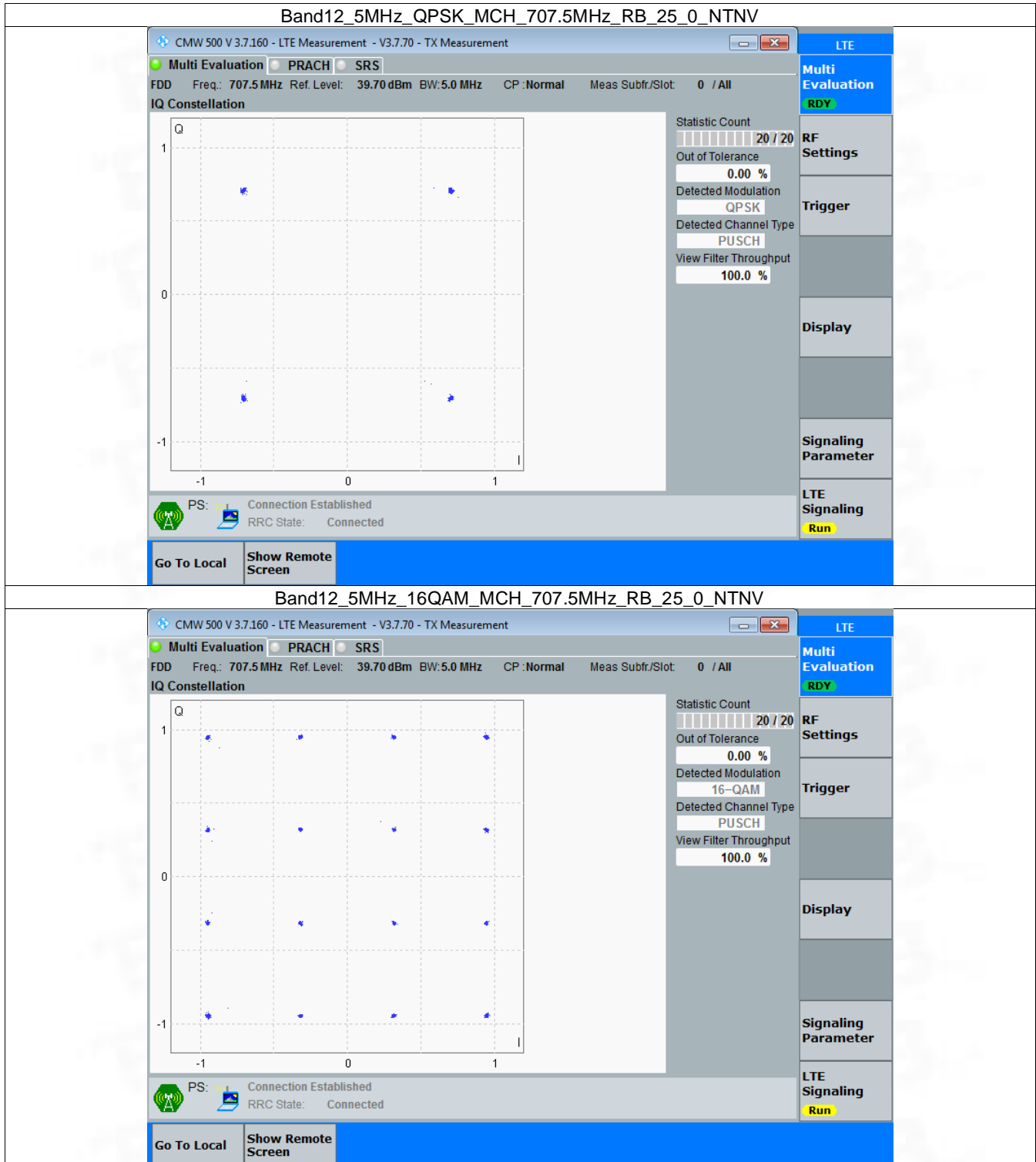


### 3.3 B12\_5MHz

#### 3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

### 3.3.2 Test Graph



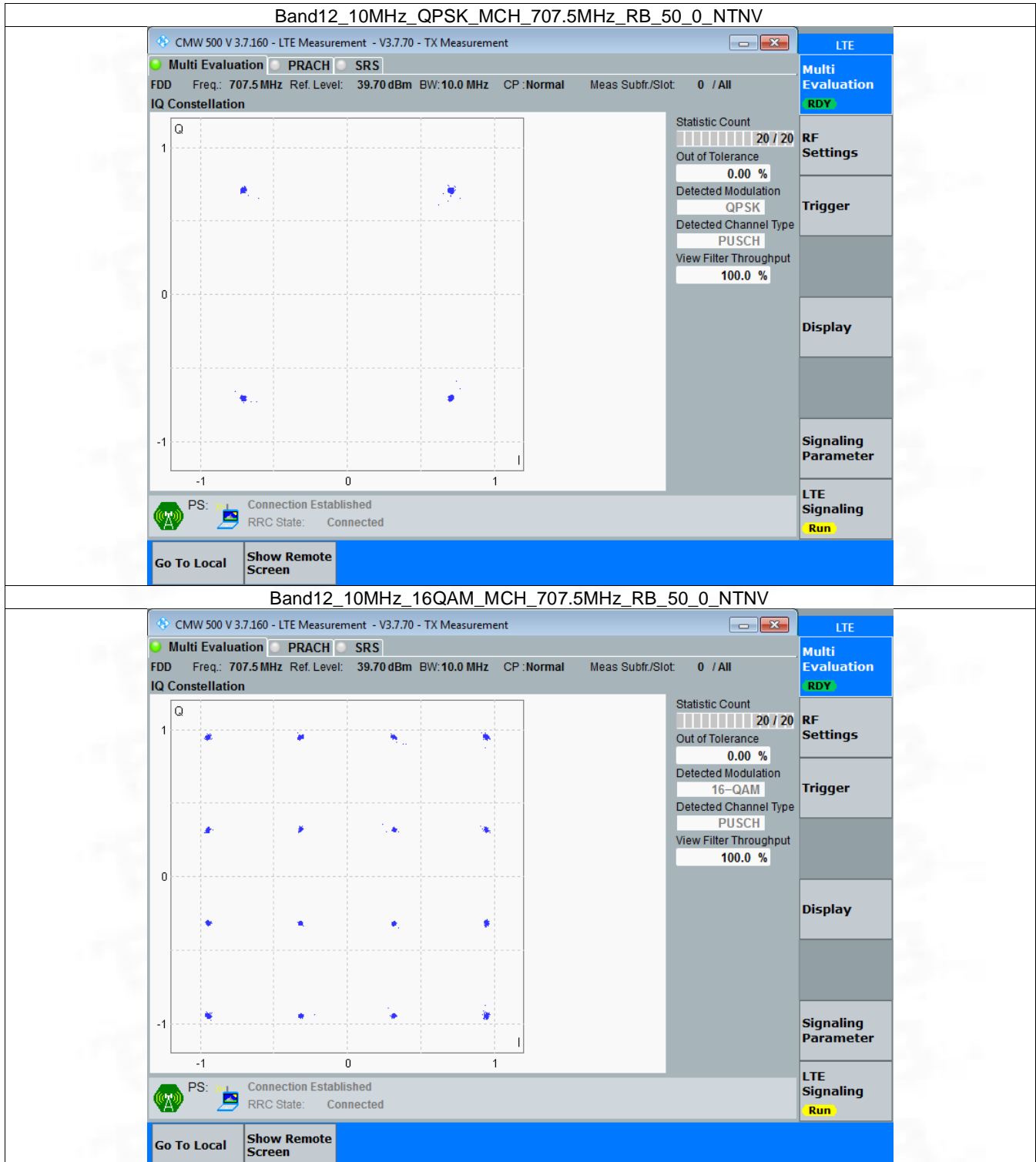


### 3.4 B12\_10MHz

#### 3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

### 3.4.2 Test Graph



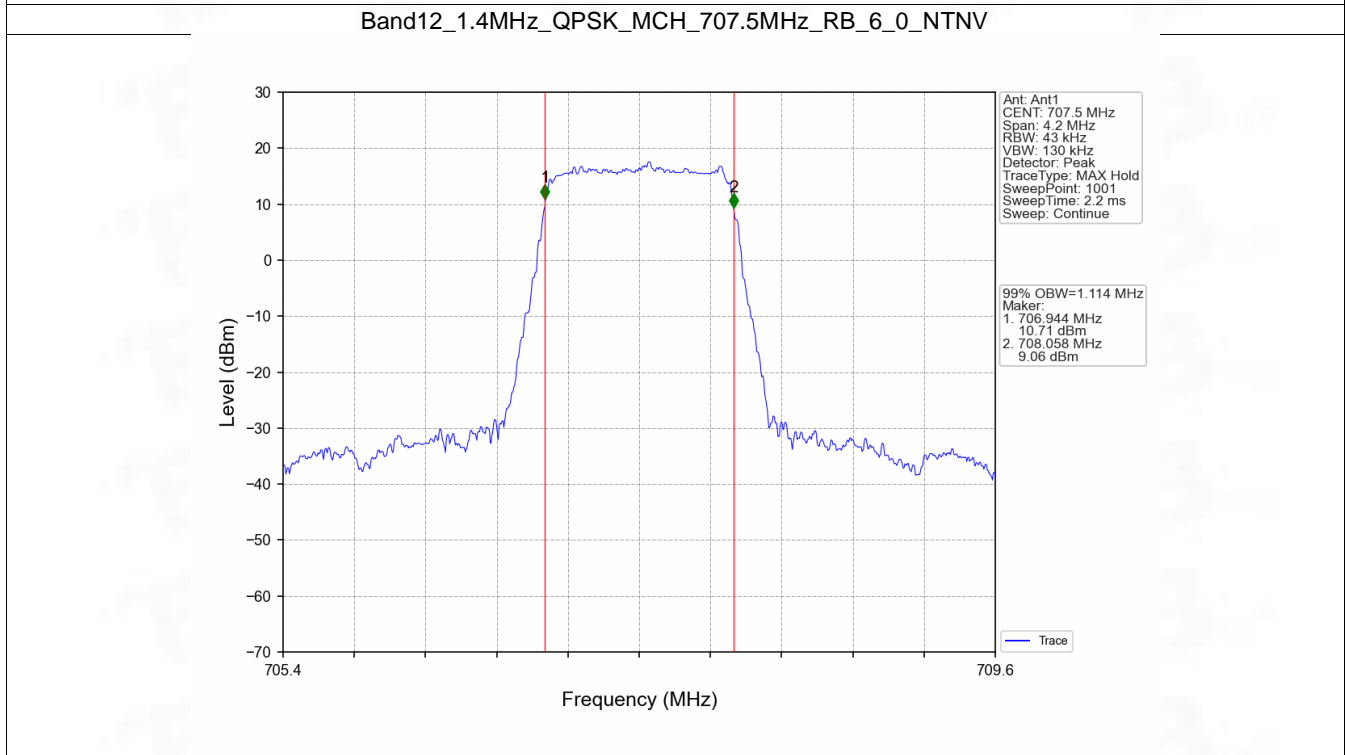
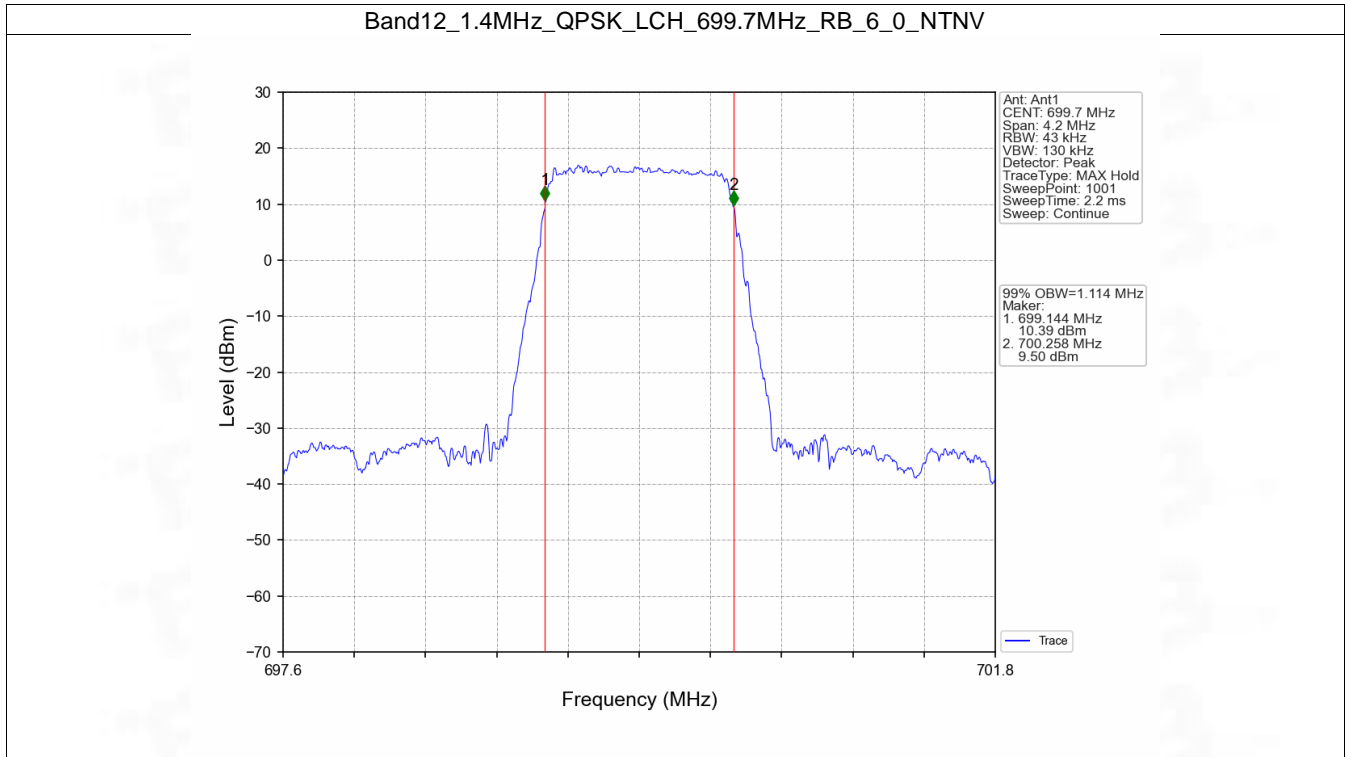
#### 4. 99% & 26dB Bandwidth

##### 4.1 Band12\_OBW

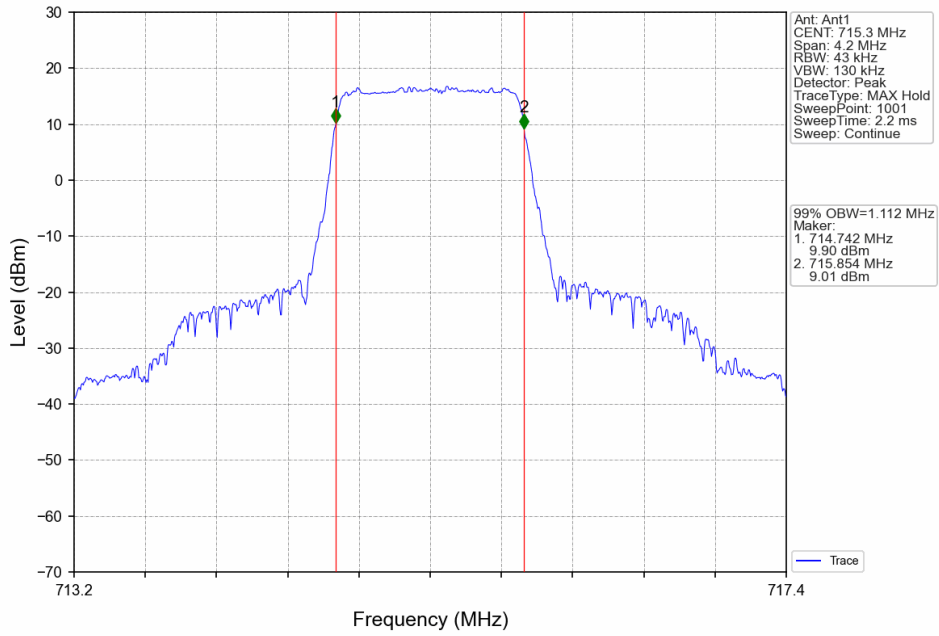
##### 4.1.1 Test Result

Band: 12 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.114	Pass
		707.5	6	0	1.114	Pass
		715.3	6	0	1.112	Pass
	16QAM	699.7	6	0	1.111	Pass
		707.5	6	0	1.101	Pass
		715.3	6	0	1.113	Pass
3	QPSK	700.5	15	0	2.725	Pass
		707.5	15	0	2.724	Pass
		714.5	15	0	2.728	Pass
	16QAM	700.5	15	0	2.724	Pass
		707.5	15	0	2.721	Pass
		714.5	15	0	2.710	Pass
5	QPSK	701.5	25	0	4.588	Pass
		707.5	25	0	4.542	Pass
		713.5	25	0	4.575	Pass
	16QAM	701.5	25	0	4.561	Pass
		707.5	25	0	4.575	Pass
		713.5	25	0	4.603	Pass
10	QPSK	704	50	0	9.080	Pass
		707.5	50	0	8.996	Pass
		711	50	0	9.109	Pass
	16QAM	704	50	0	9.091	Pass
		707.5	50	0	9.003	Pass
		711	50	0	9.115	Pass

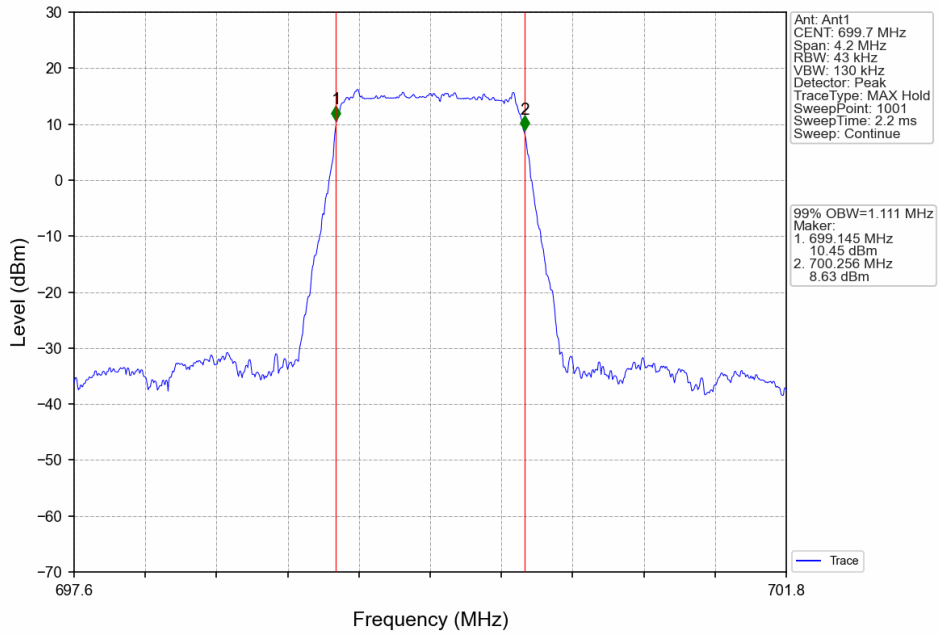
4.1.2 Test Graph



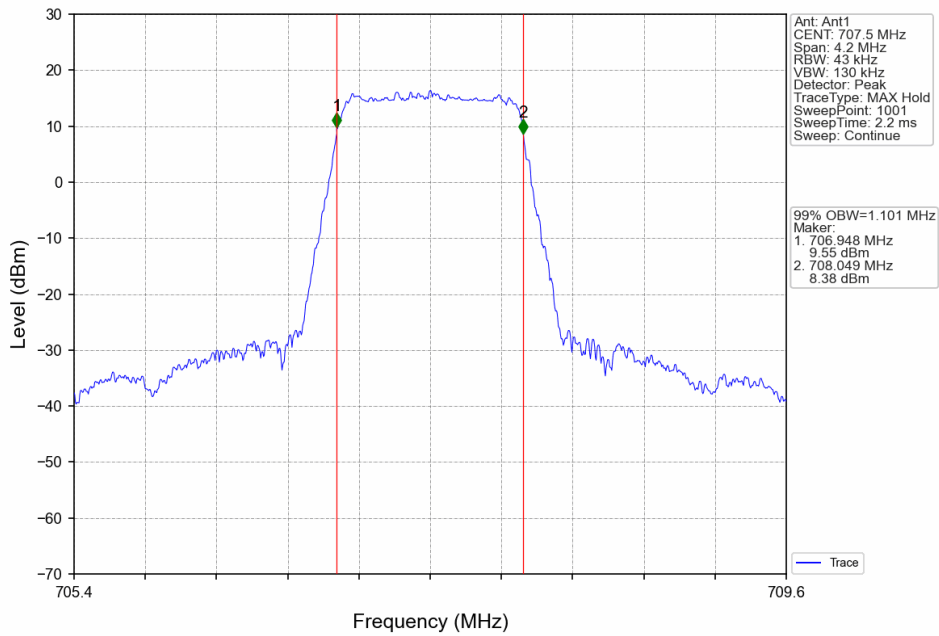
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



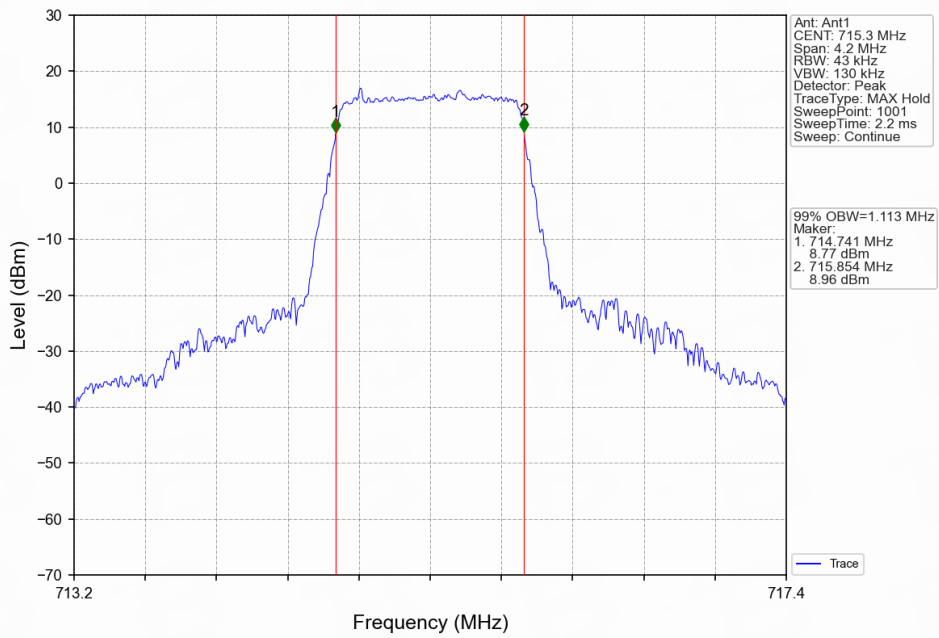
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



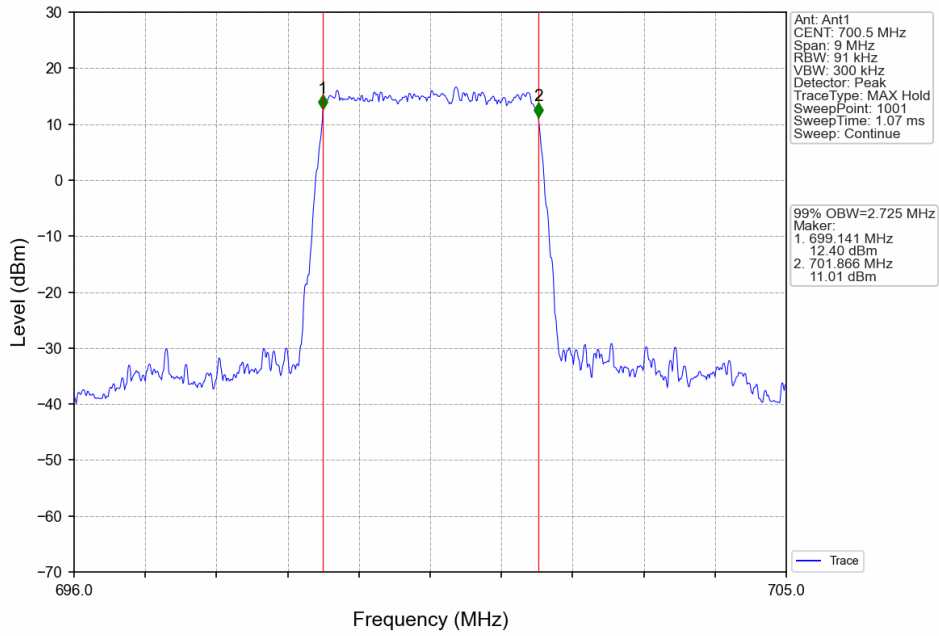
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



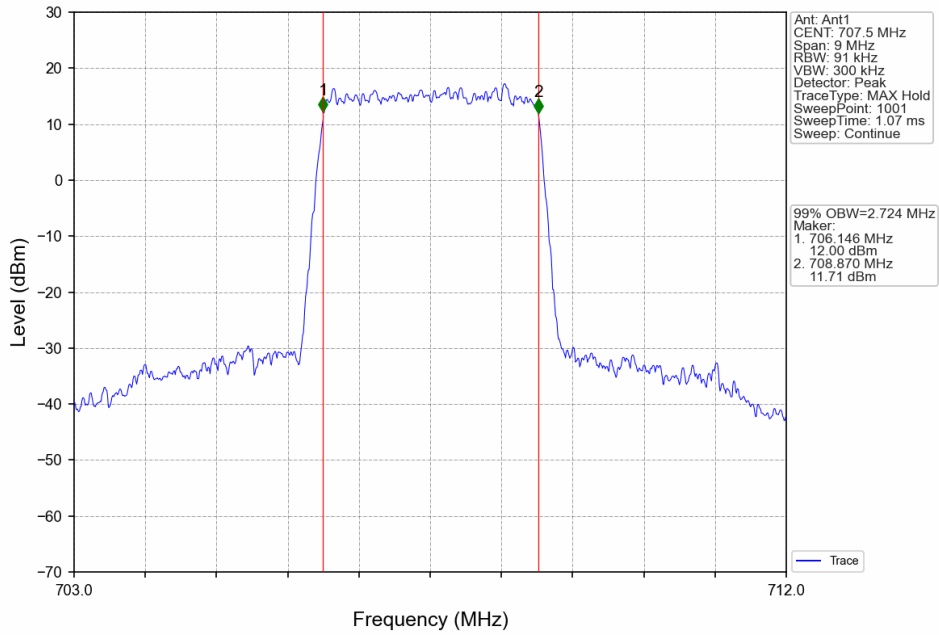
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

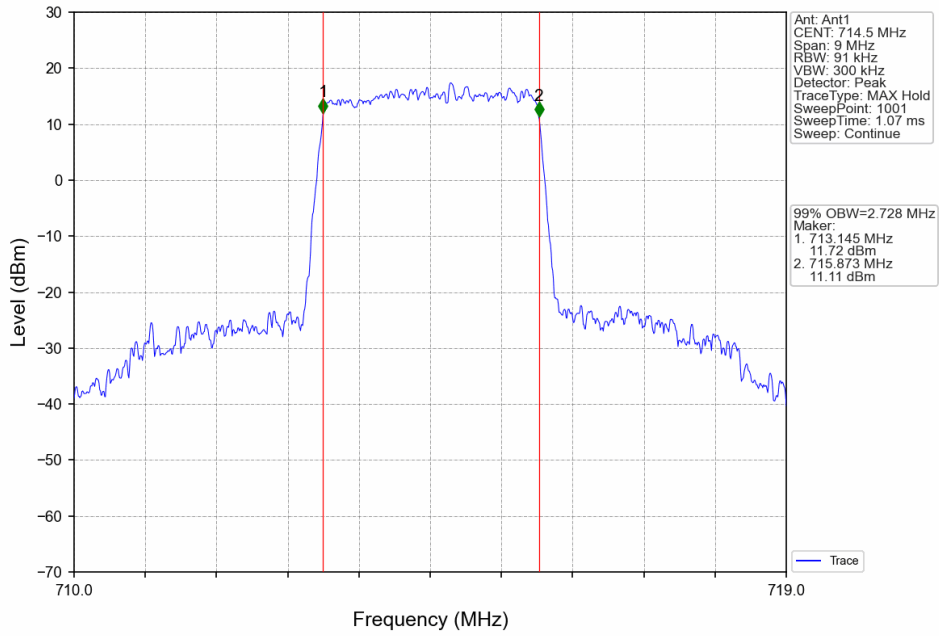


Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

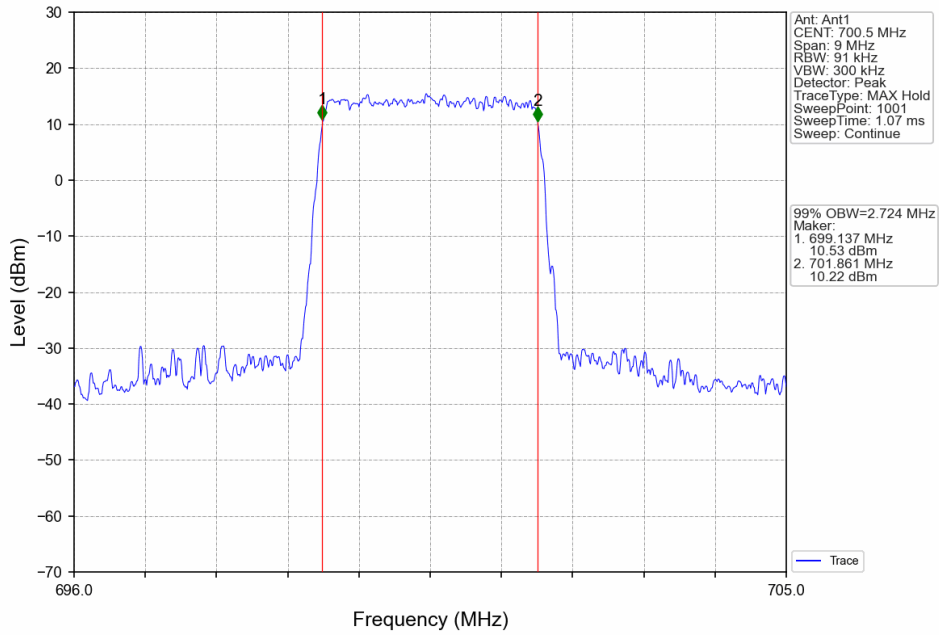




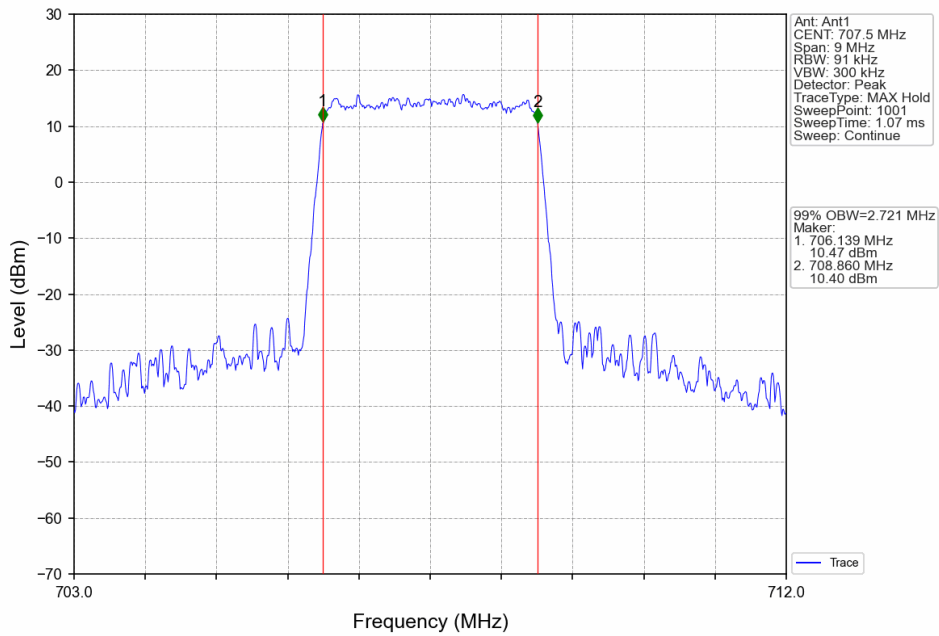
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



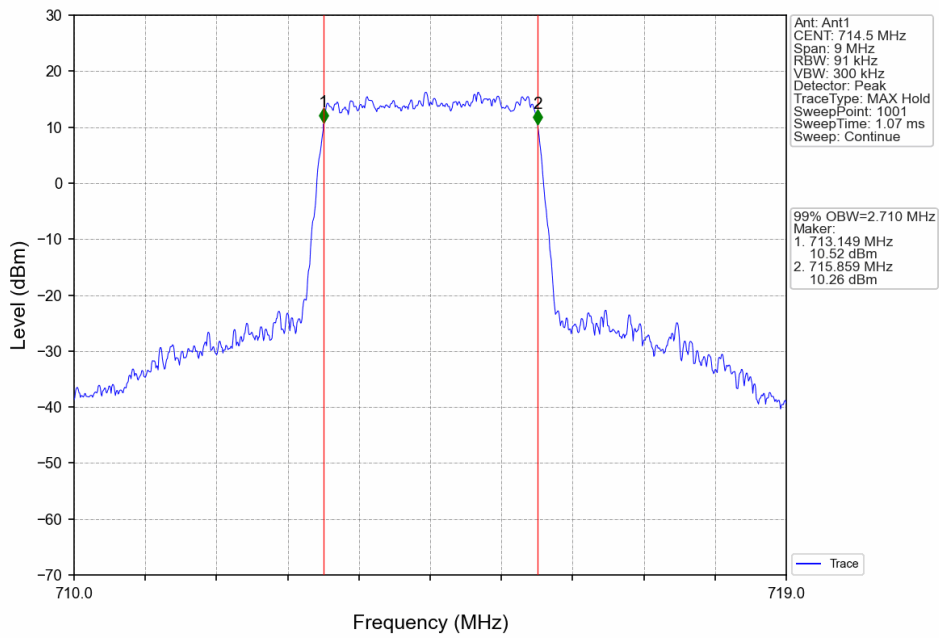
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



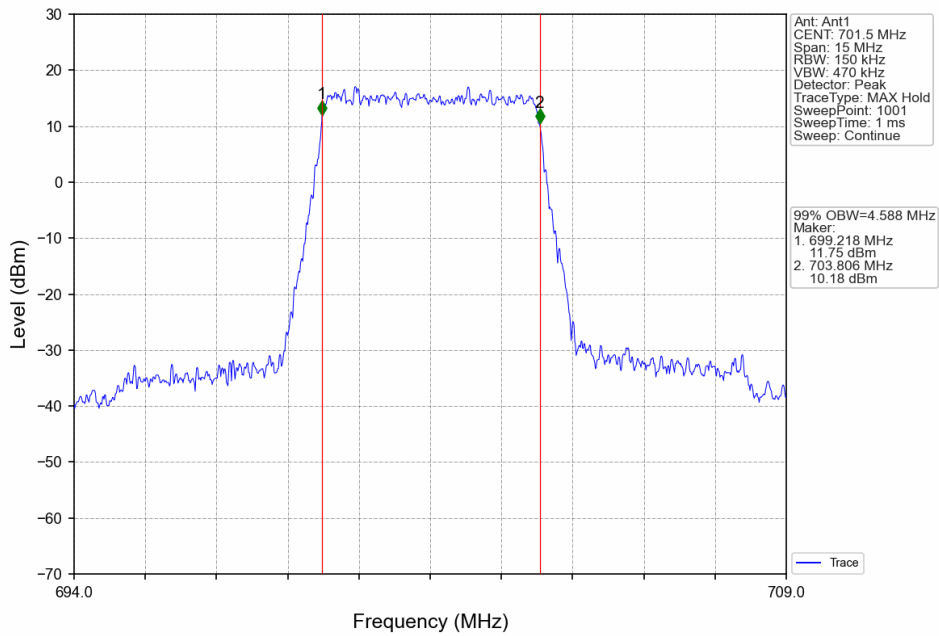
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



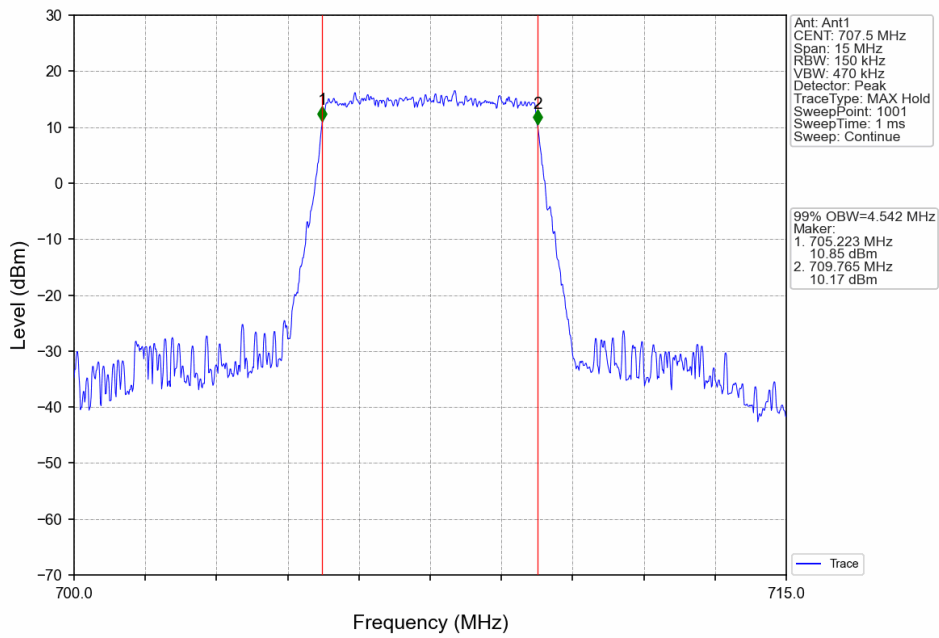
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



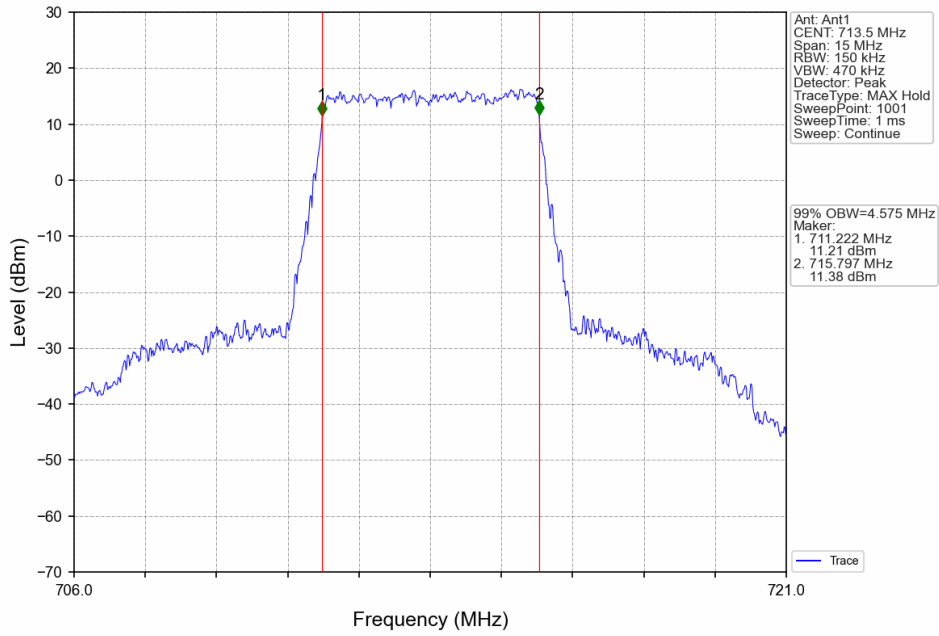
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



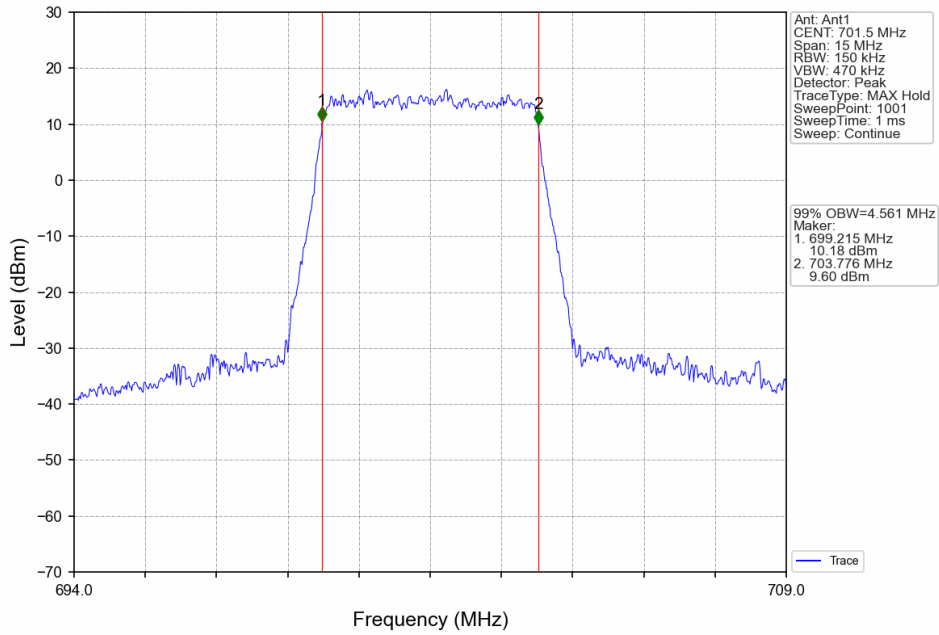
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



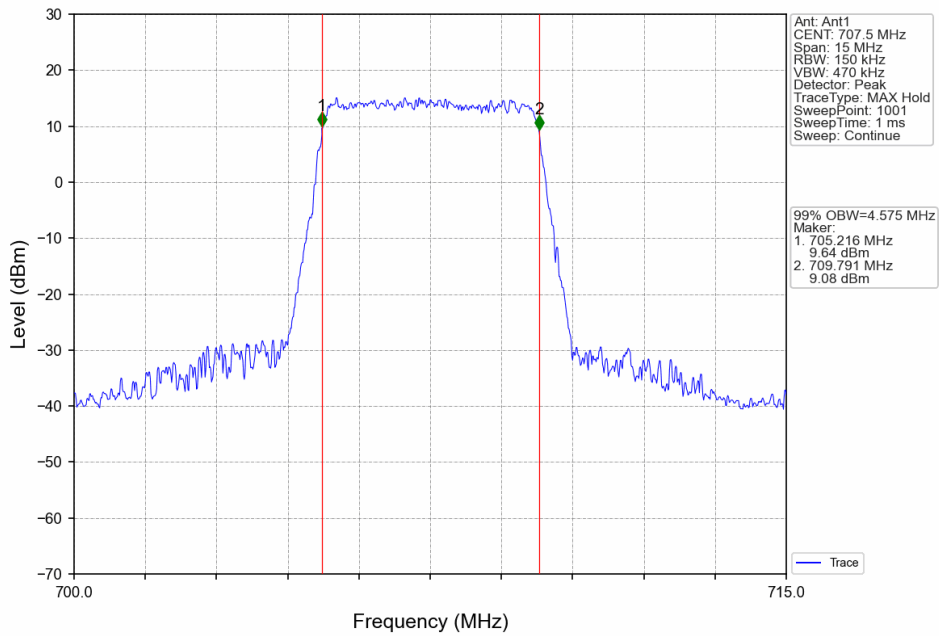
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



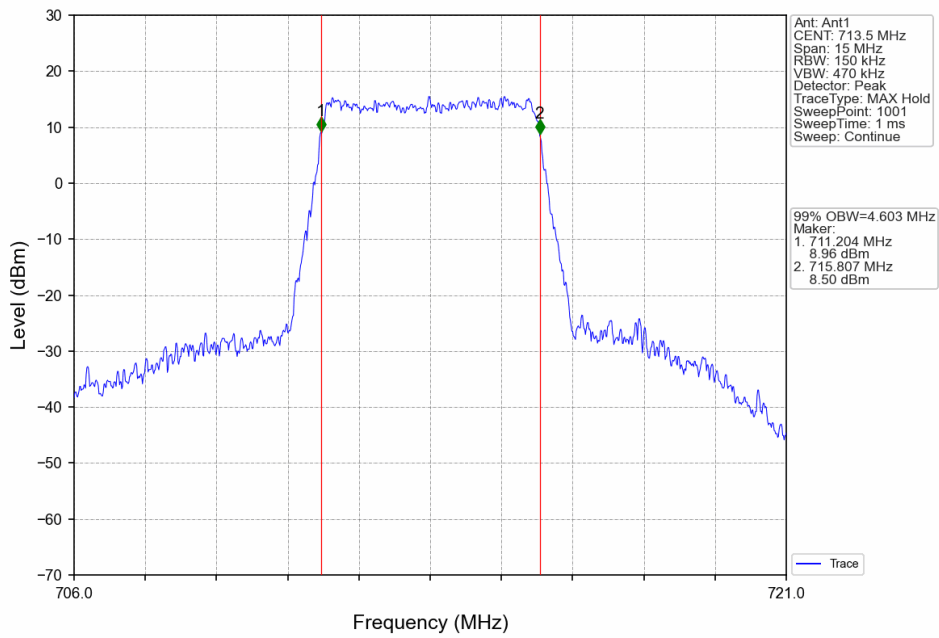
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



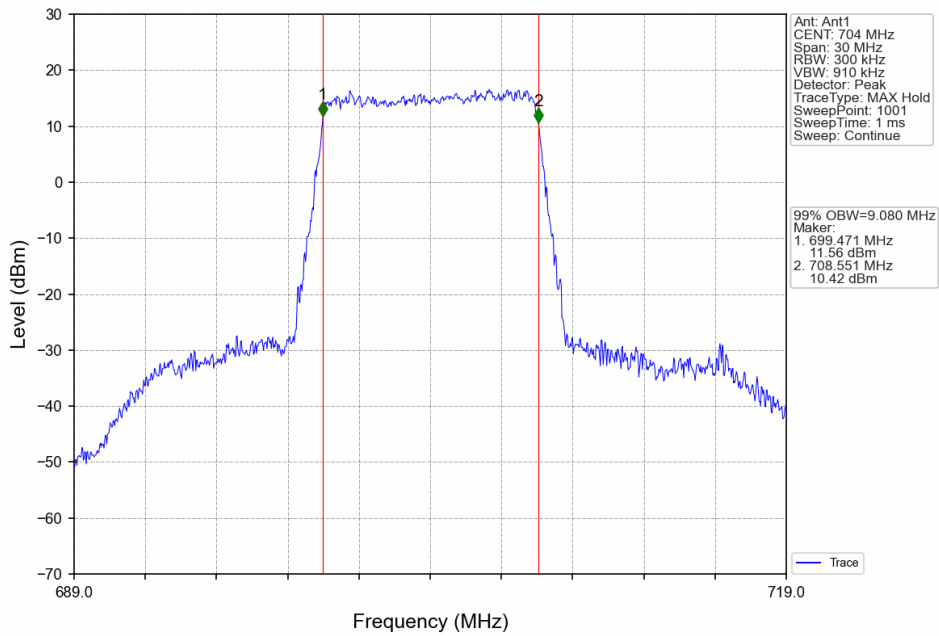
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



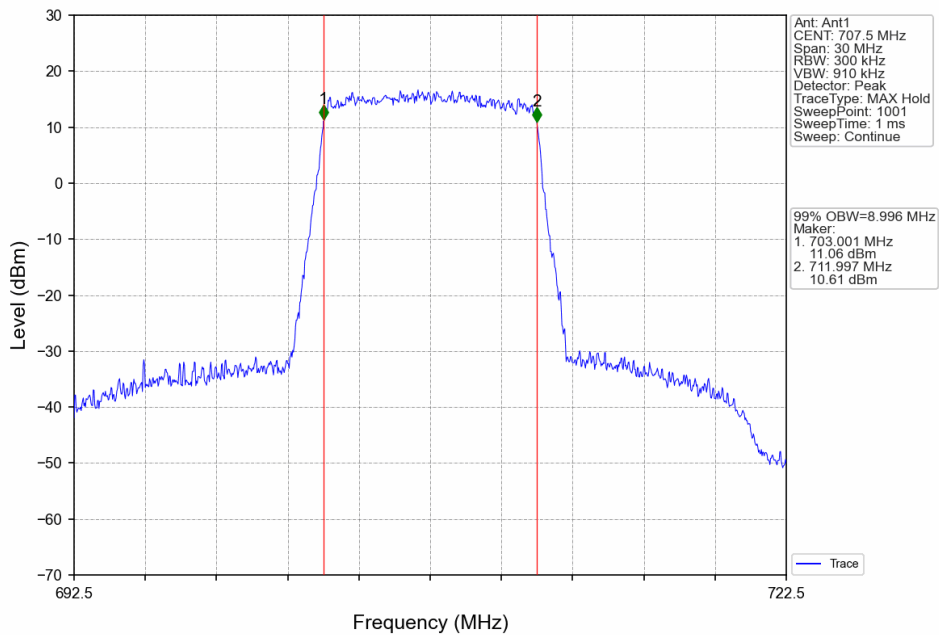
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



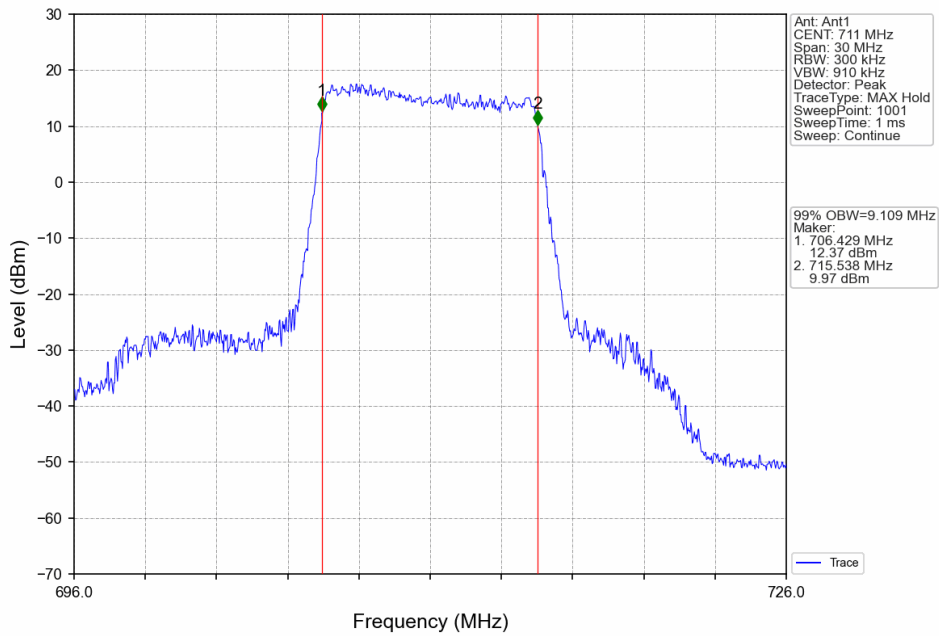
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



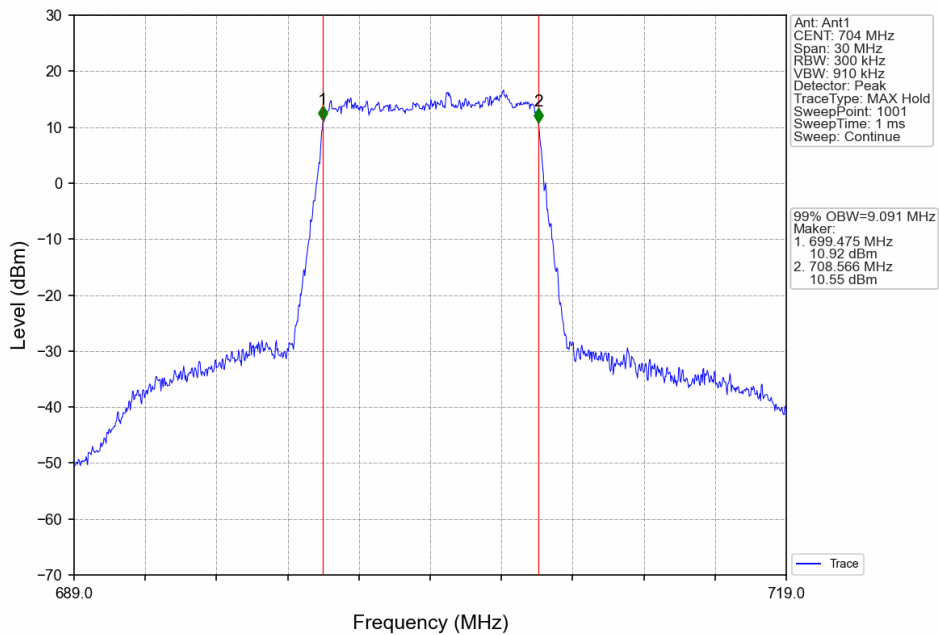
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV

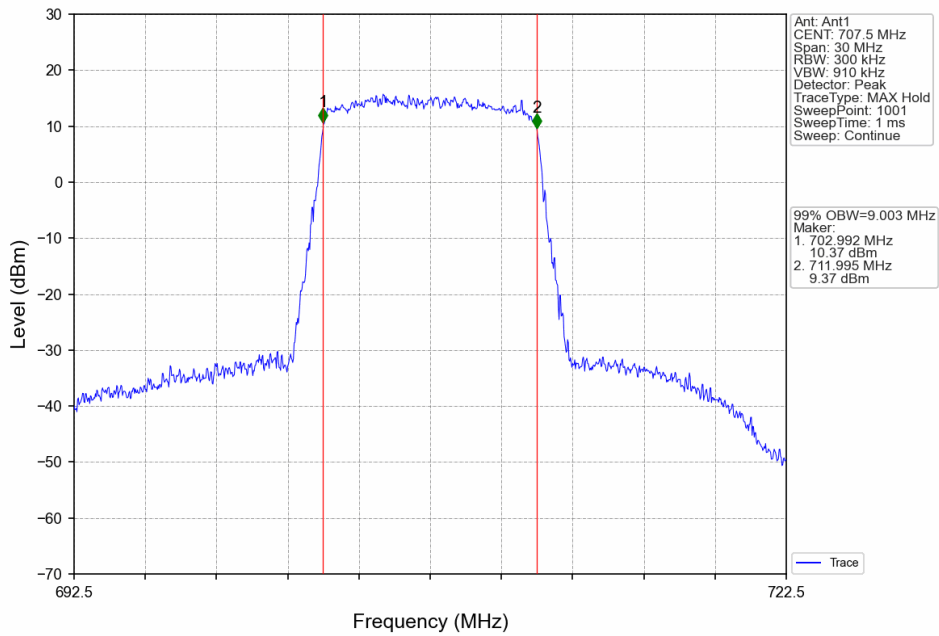


Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV

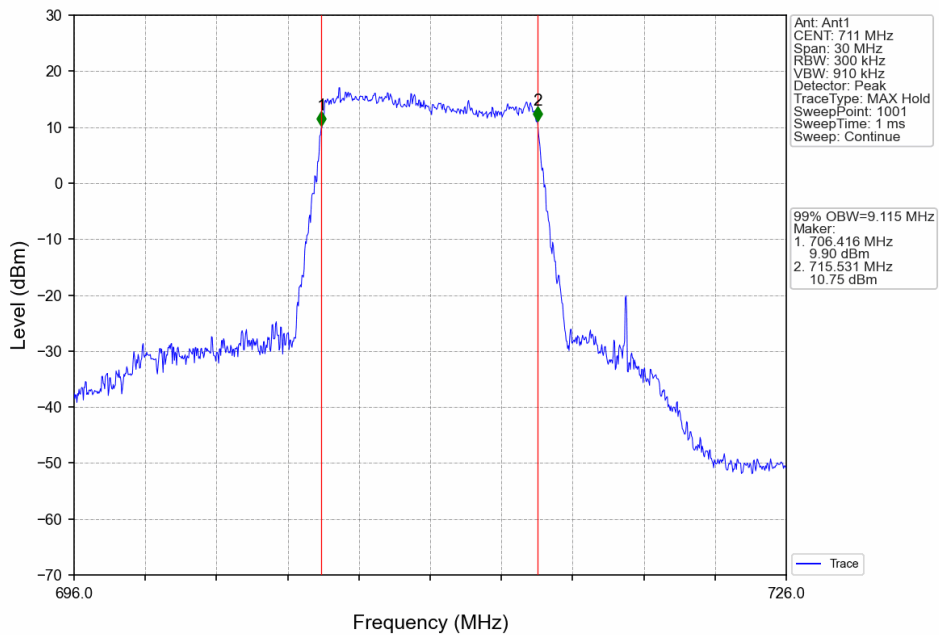




Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV

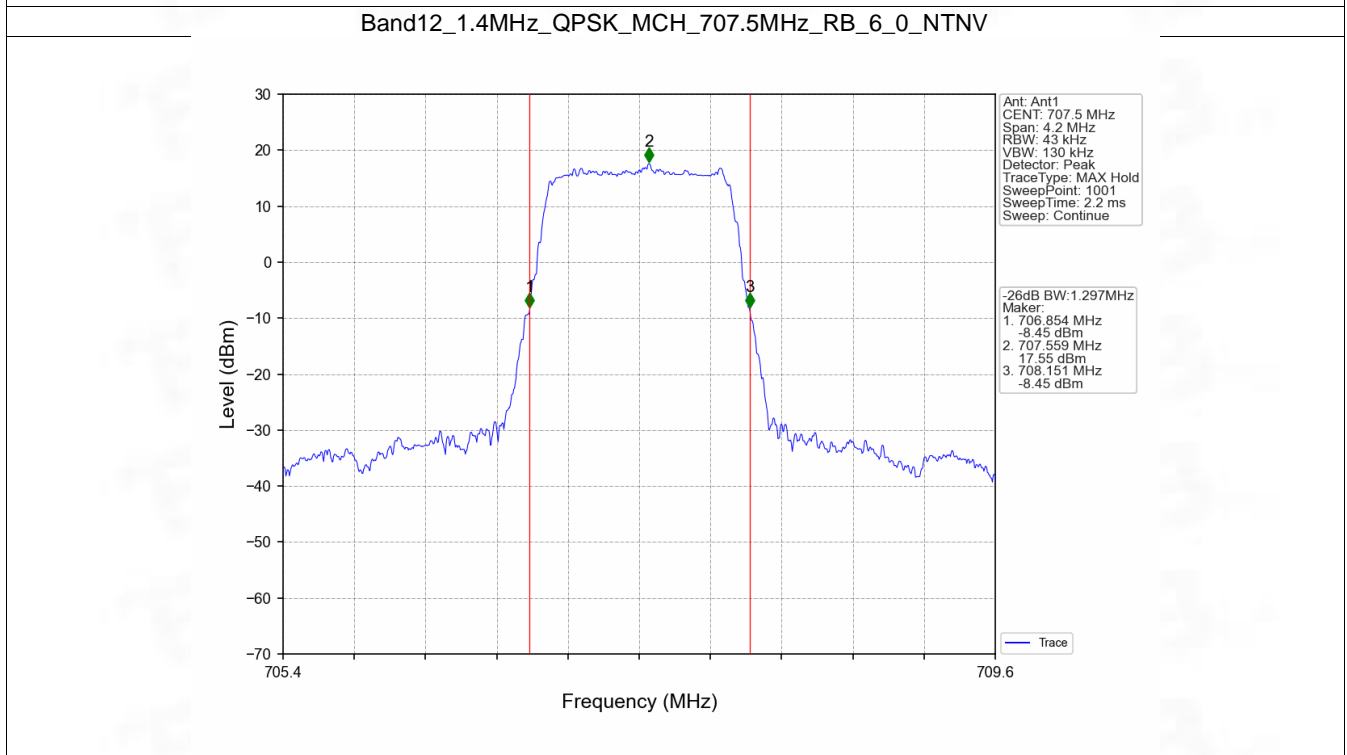
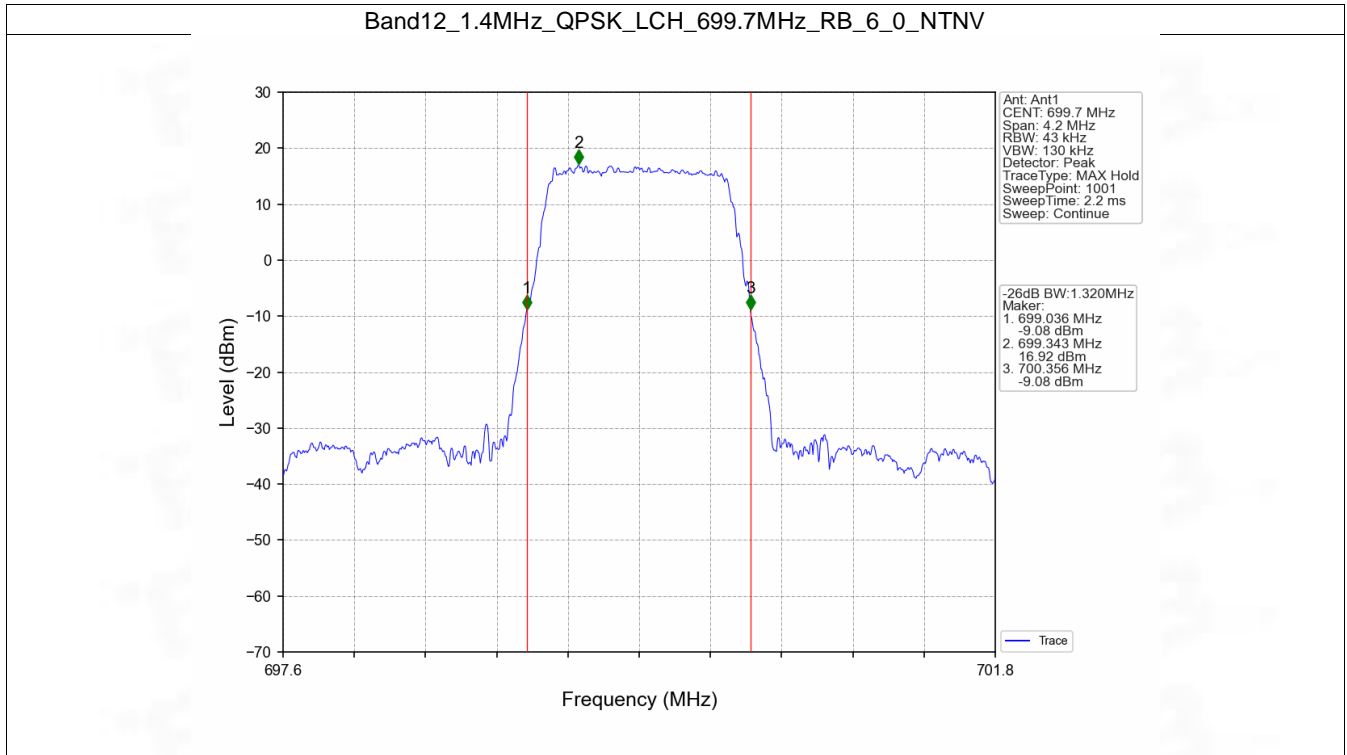


## 4.2 Band12\_XDB

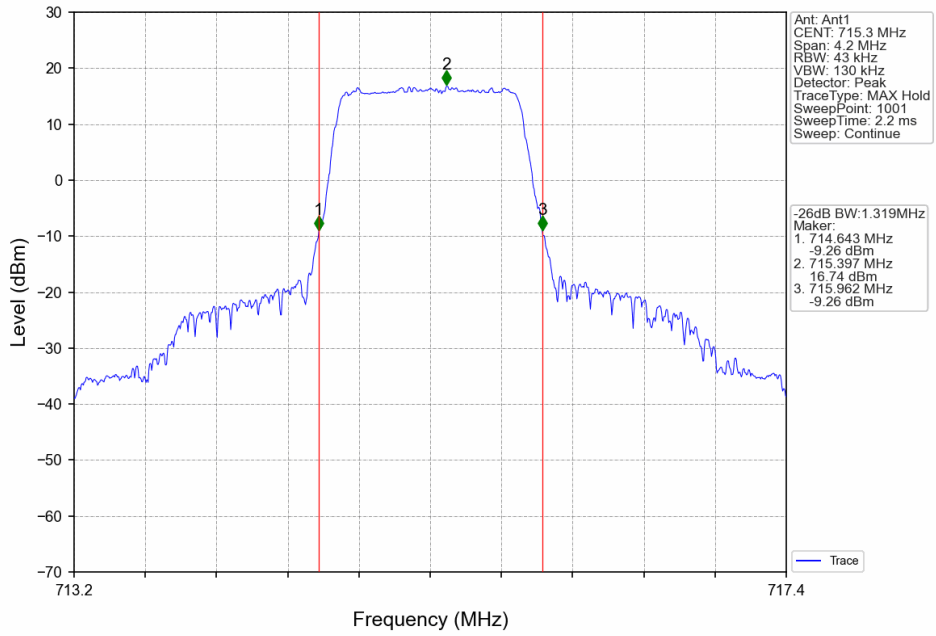
### 4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.320	Pass
		707.5	6	0	1.297	Pass
		715.3	6	0	1.319	Pass
	16QAM	699.7	6	0	1.303	Pass
		707.5	6	0	1.308	Pass
		715.3	6	0	1.337	Pass
3	QPSK	700.5	15	0	2.995	Pass
		707.5	15	0	2.998	Pass
		714.5	15	0	2.997	Pass
	16QAM	700.5	15	0	2.980	Pass
		707.5	15	0	2.989	Pass
		714.5	15	0	3.006	Pass
5	QPSK	701.5	25	0	5.264	Pass
		707.5	25	0	5.252	Pass
		713.5	25	0	5.249	Pass
	16QAM	701.5	25	0	5.232	Pass
		707.5	25	0	5.258	Pass
		713.5	25	0	5.346	Pass
10	QPSK	704	50	0	10.286	Pass
		707.5	50	0	10.077	Pass
		711	50	0	10.251	Pass
	16QAM	704	50	0	10.192	Pass
		707.5	50	0	10.144	Pass
		711	50	0	10.190	Pass

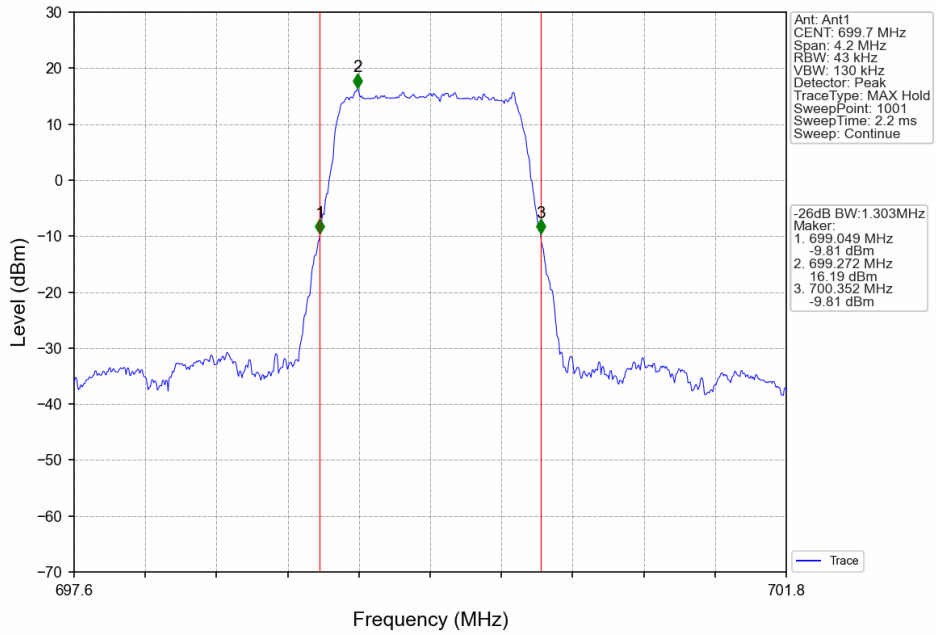
4.2.2 Test Graph



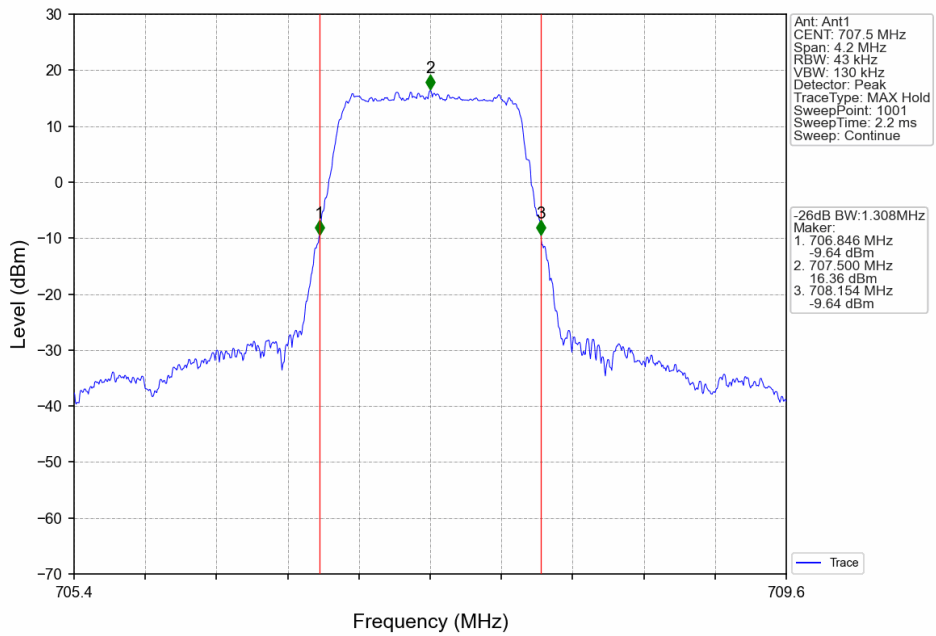
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



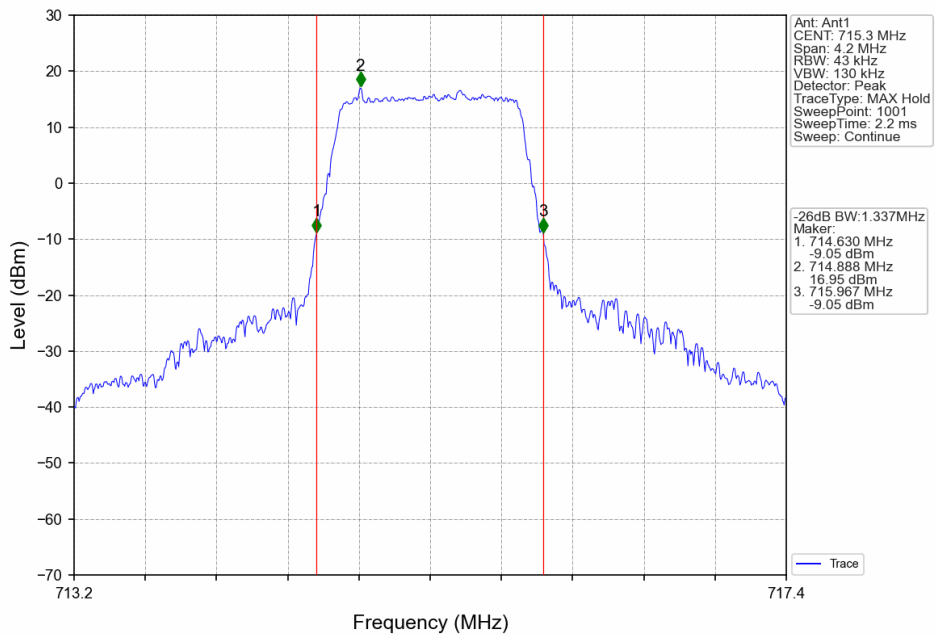
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



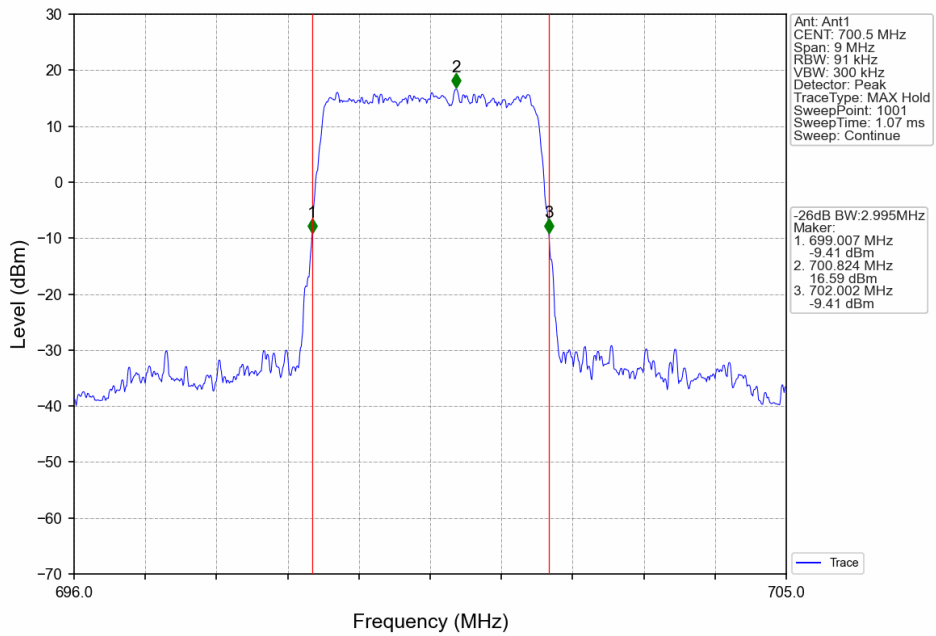
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



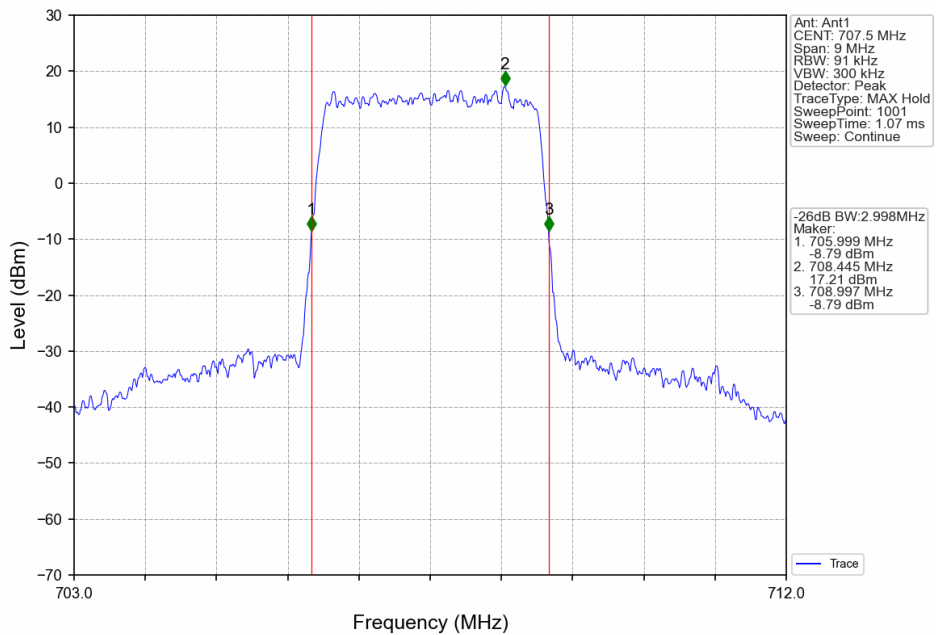
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



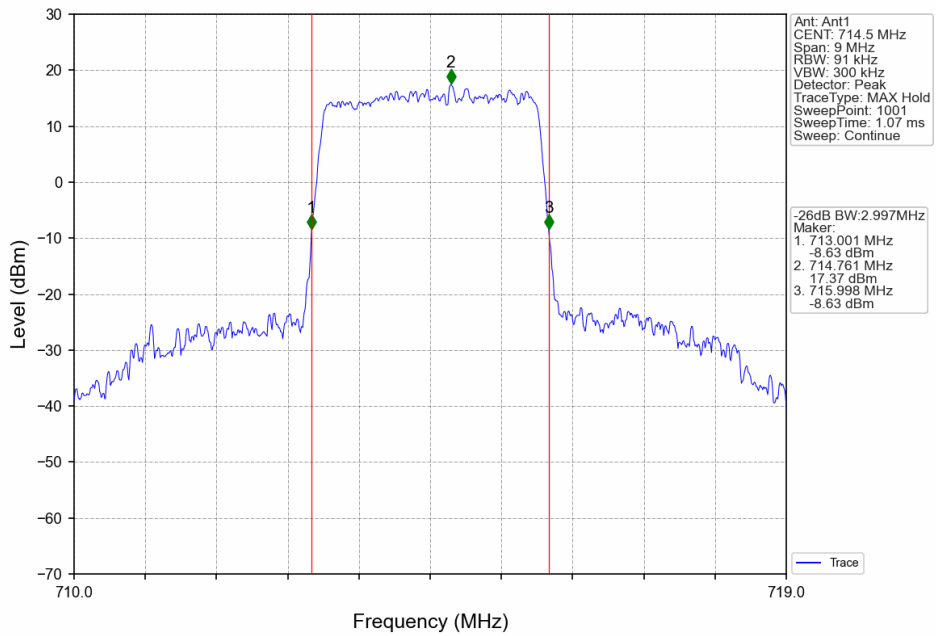
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



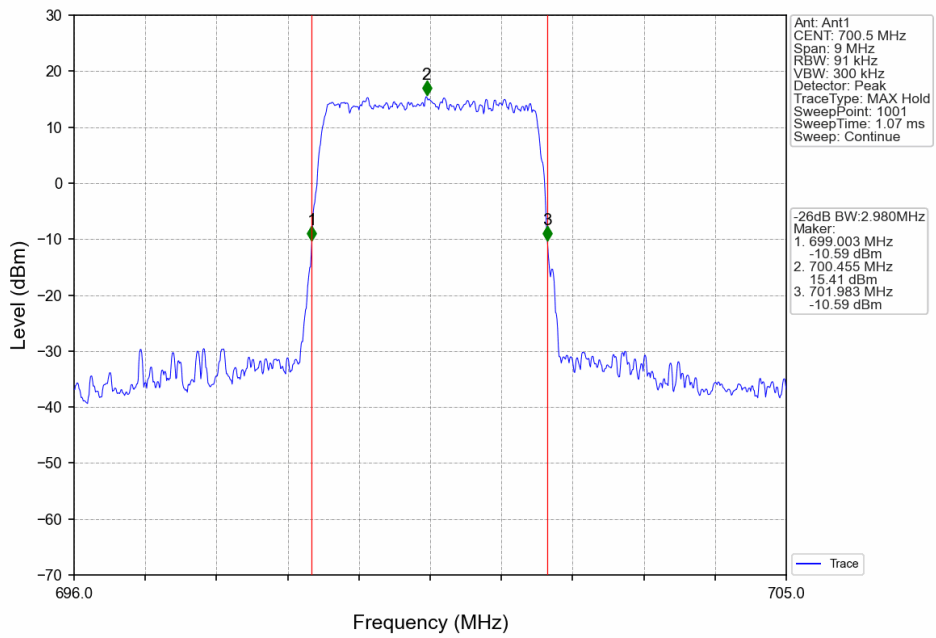
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV

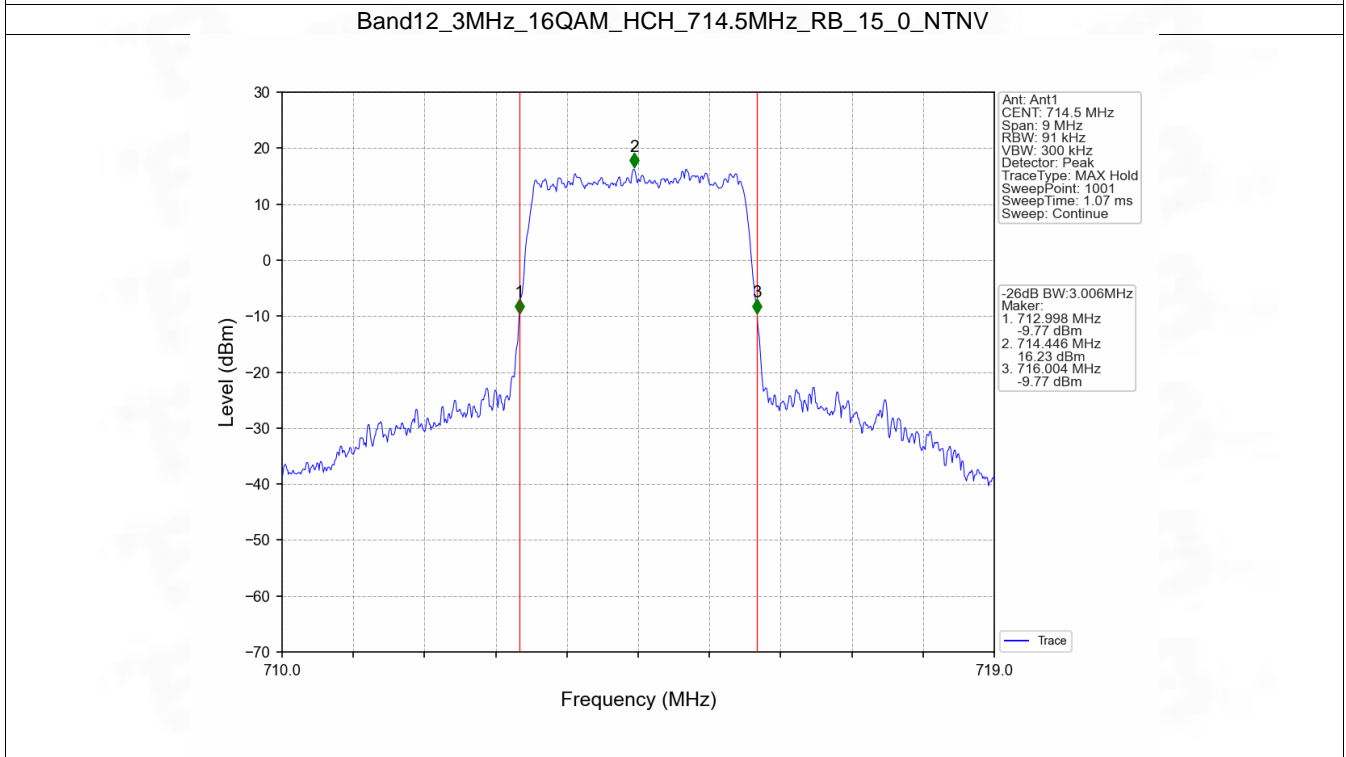
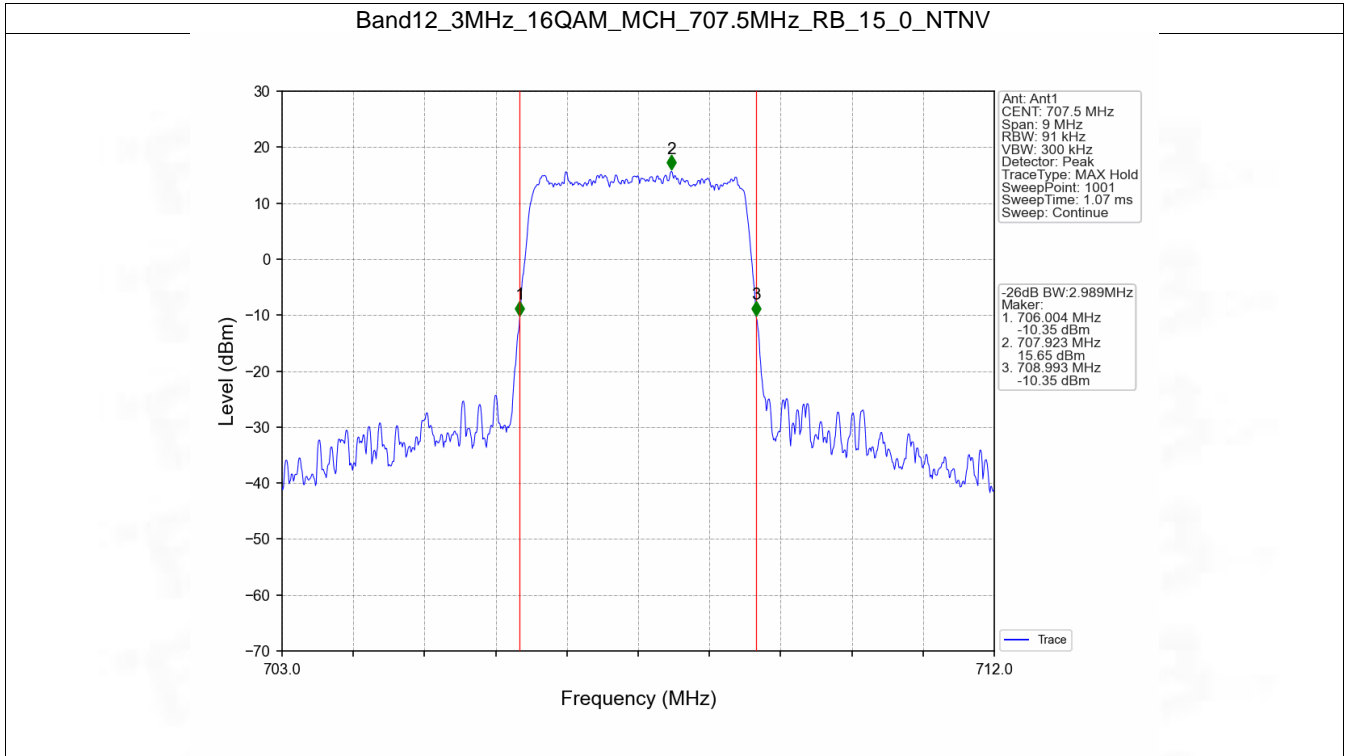


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



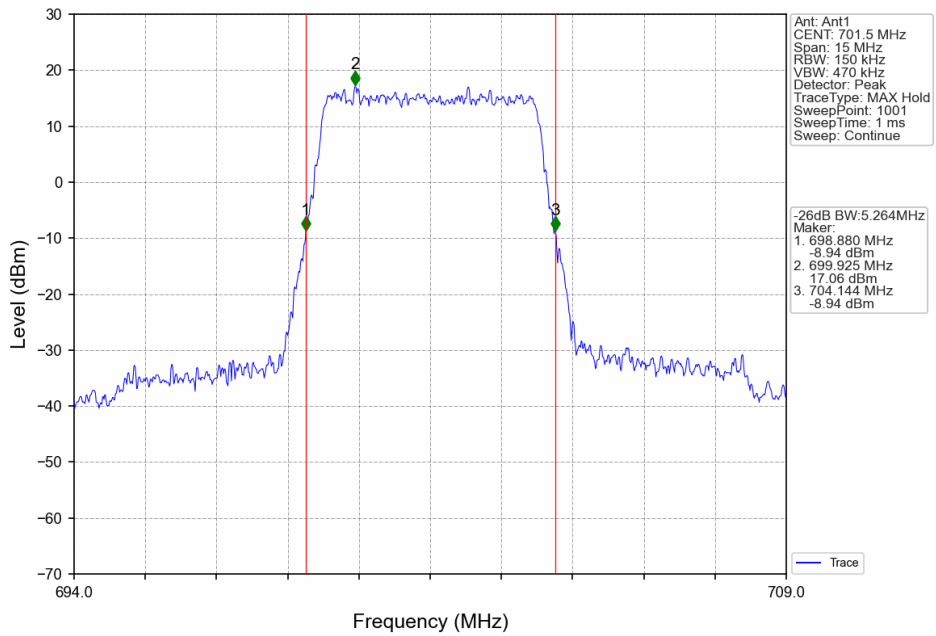
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



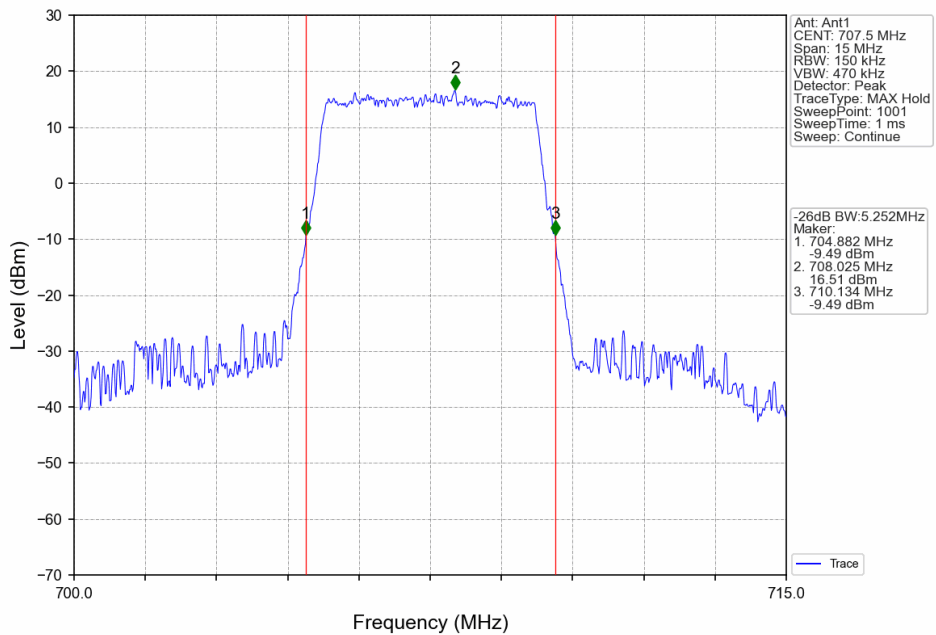




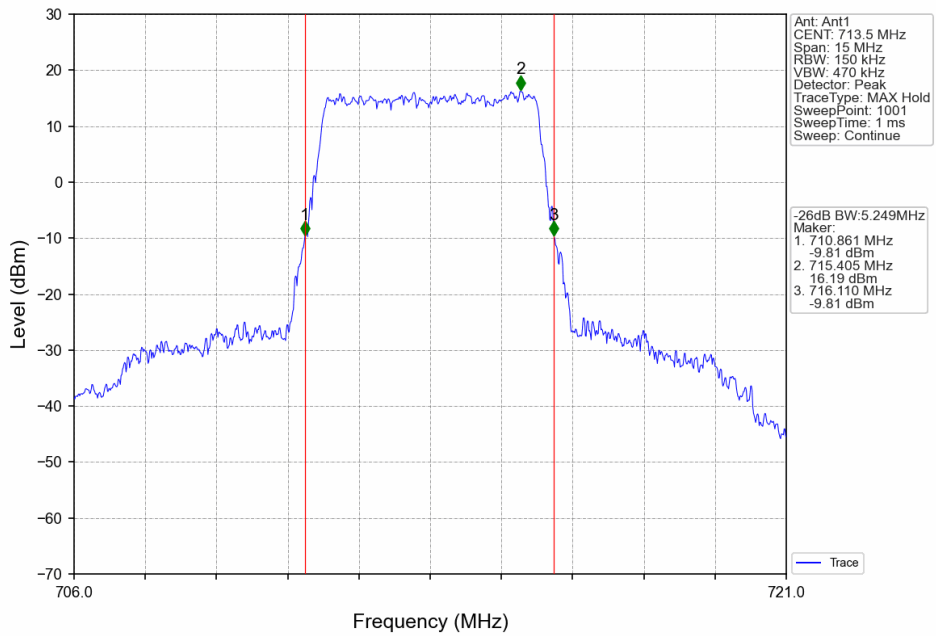
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



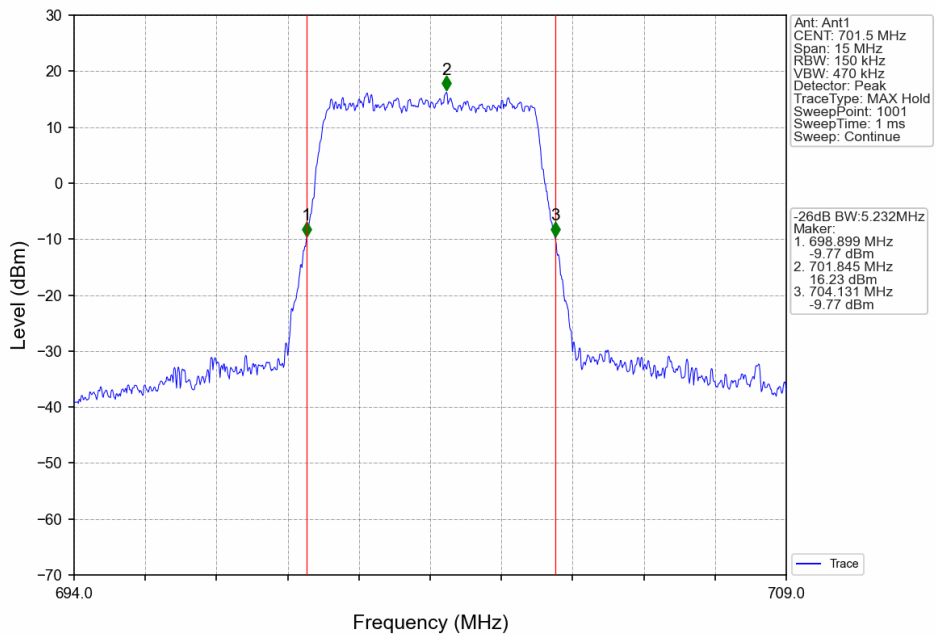
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



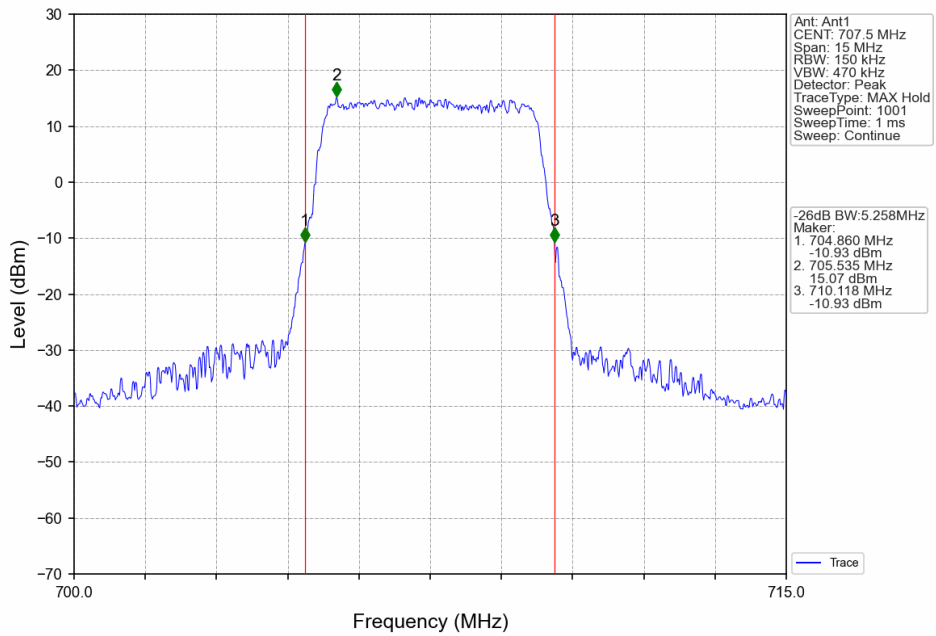
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



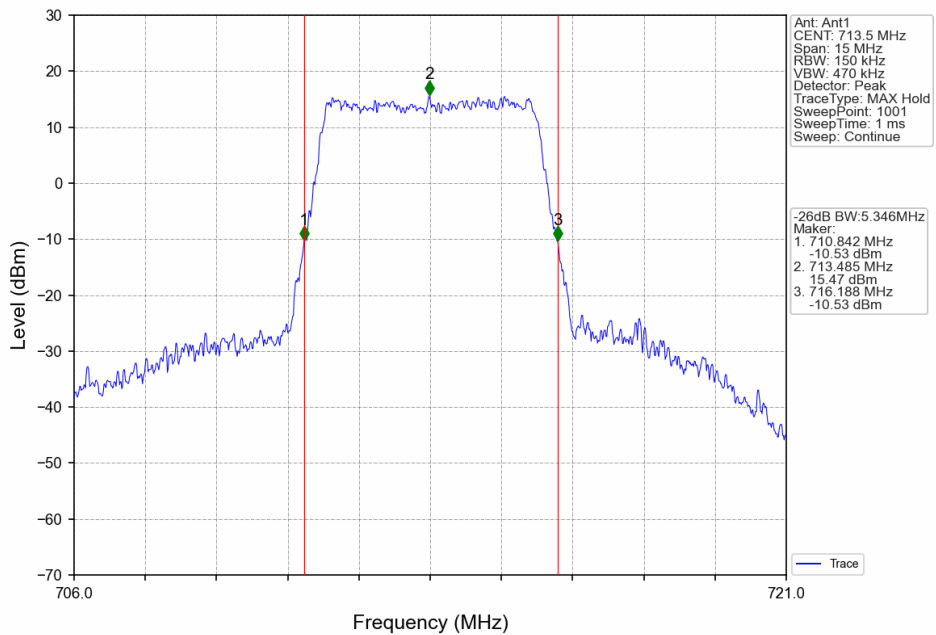
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



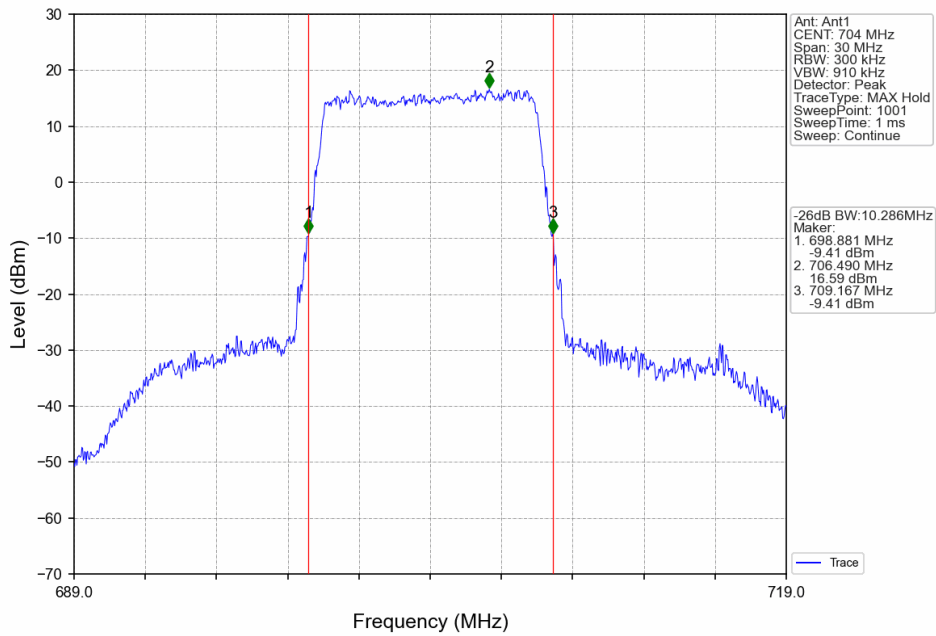
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



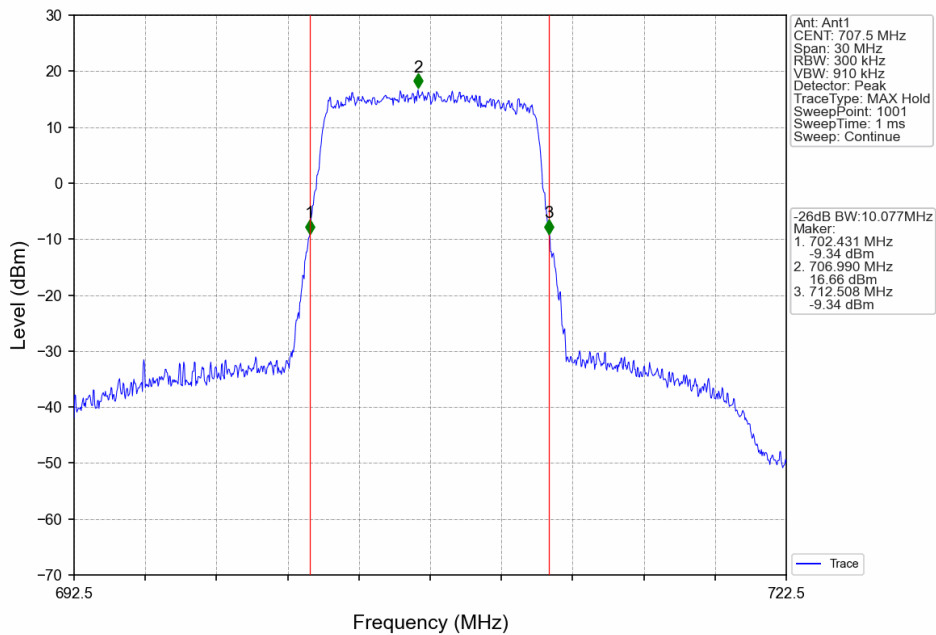
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



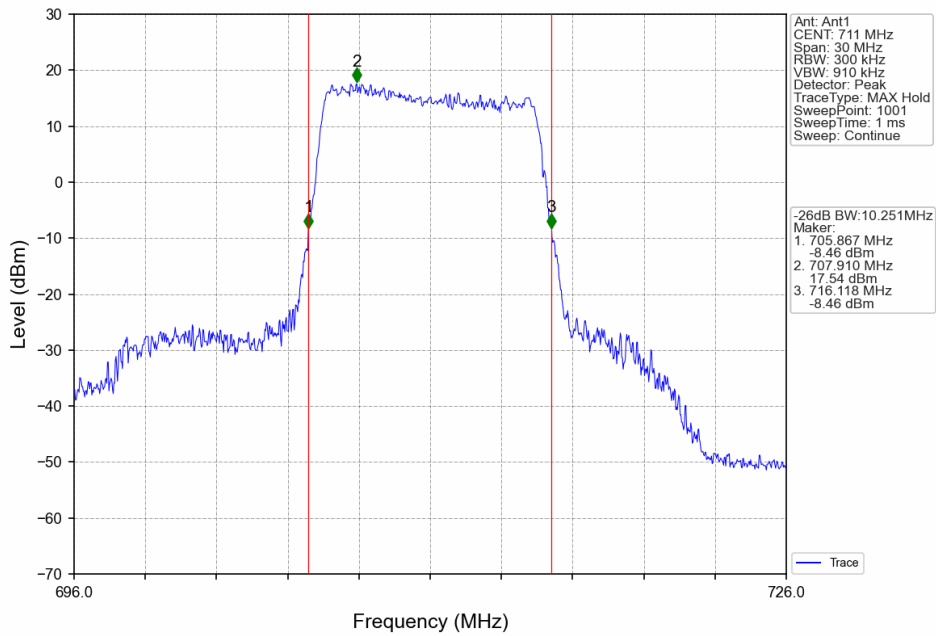
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



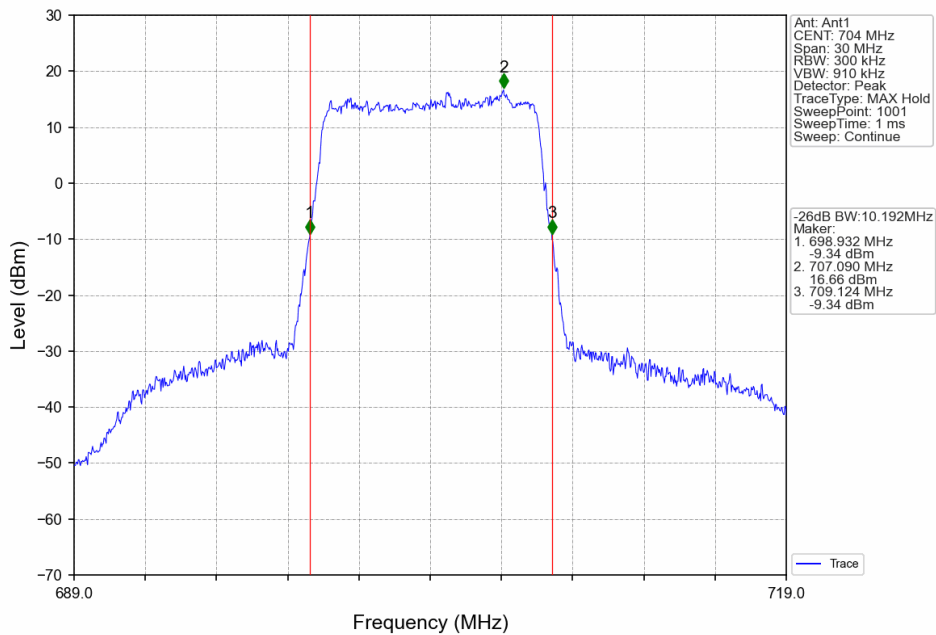
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



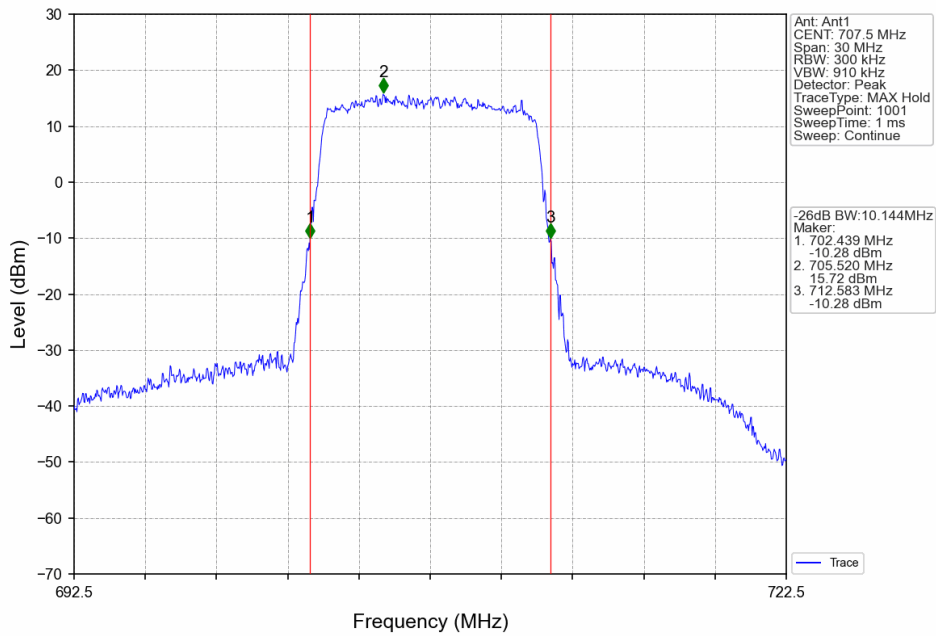
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



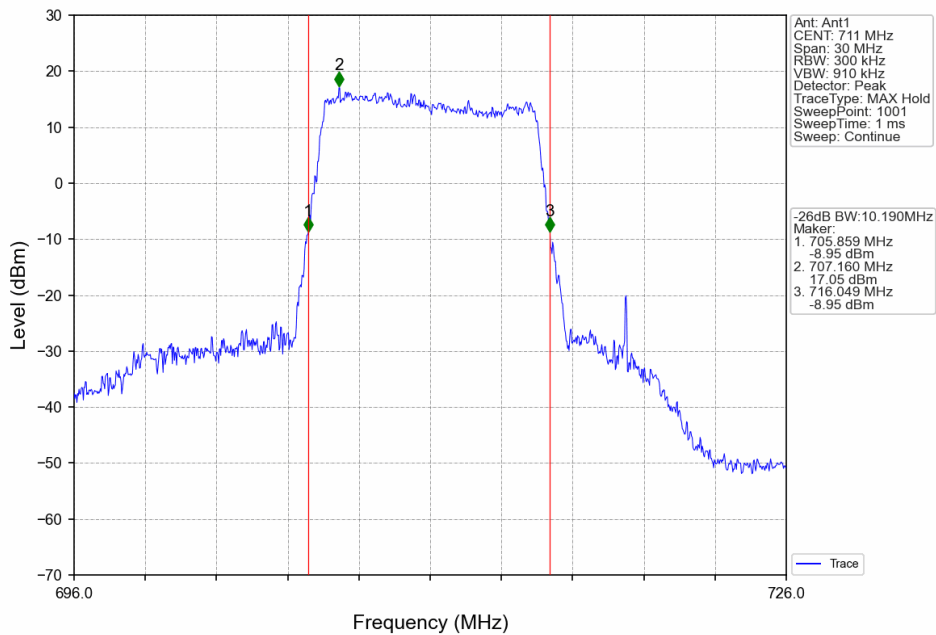
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



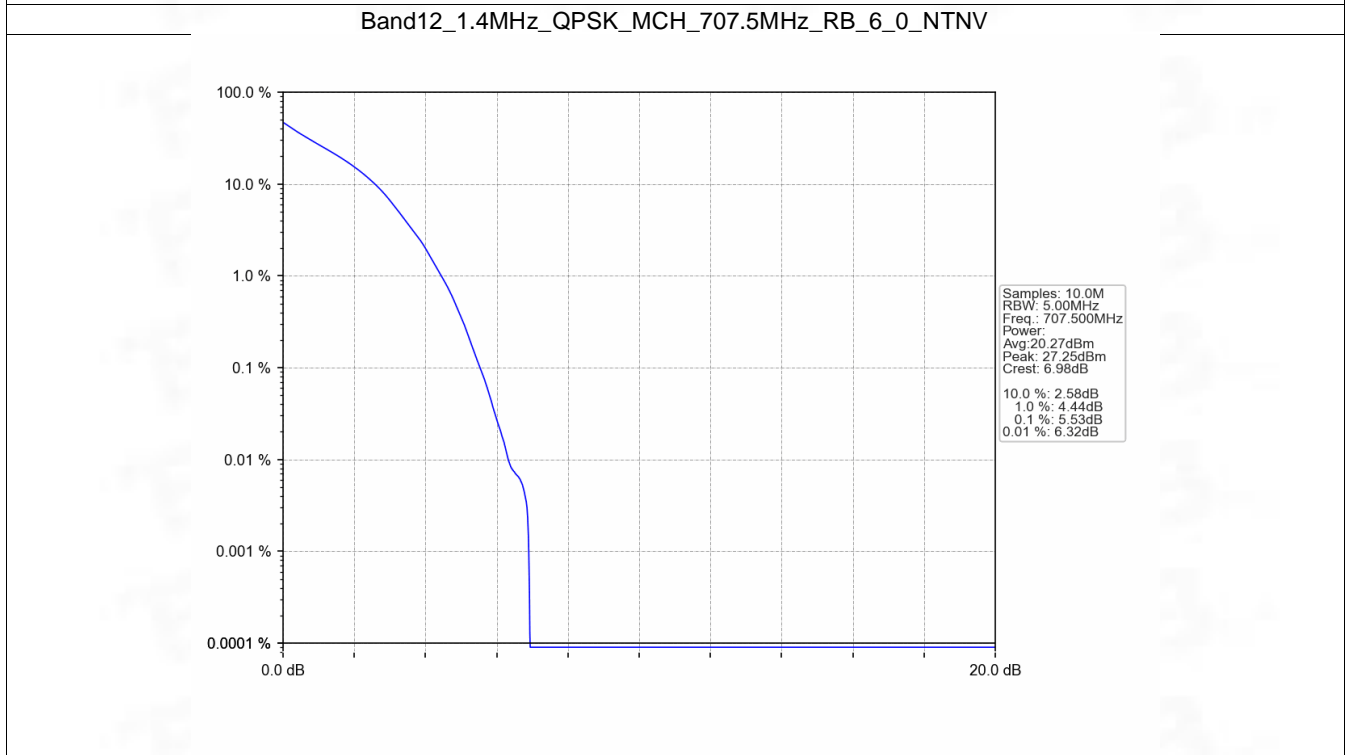
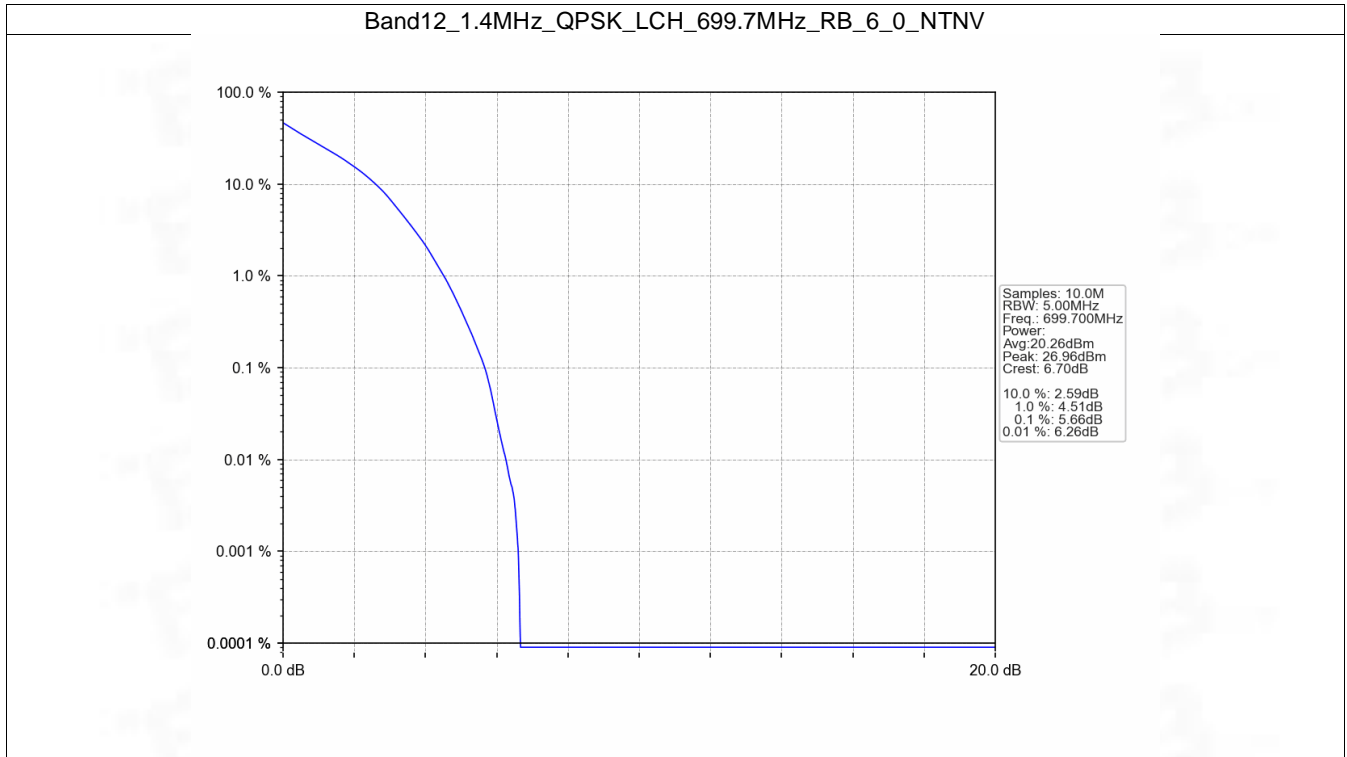
## 5. Peak-Average Ratio

### 5.1 B12\_1.4MHz

#### 5.1.1 Test Result

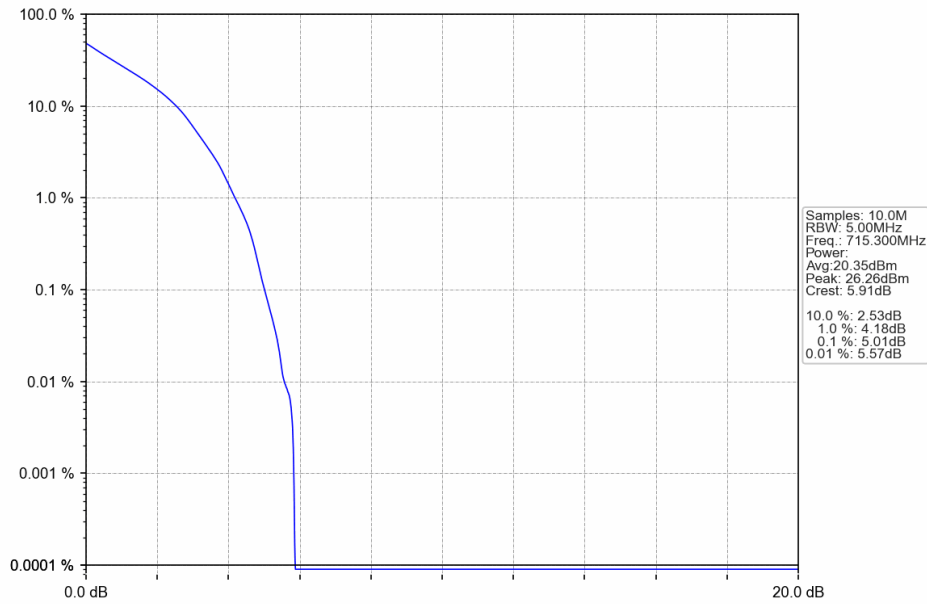
Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.66	<=13	Pass
	707.5	6	0	5.53	<=13	Pass
	715.3	6	0	5.01	<=13	Pass
16QAM	699.7	6	0	6.39	<=13	Pass
	707.5	6	0	6.23	<=13	Pass
	715.3	6	0	5.88	<=13	Pass

### 5.1.2 Test Graph

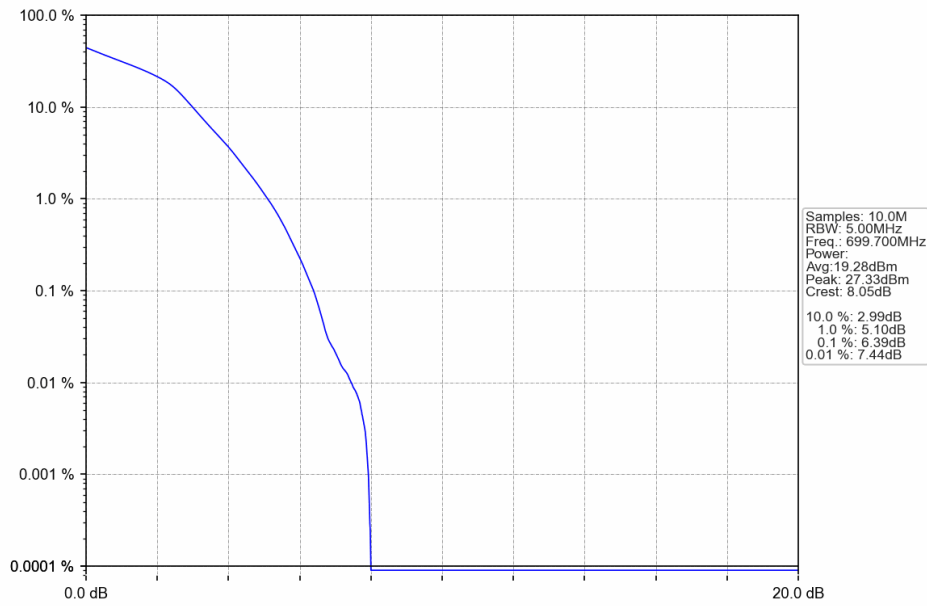




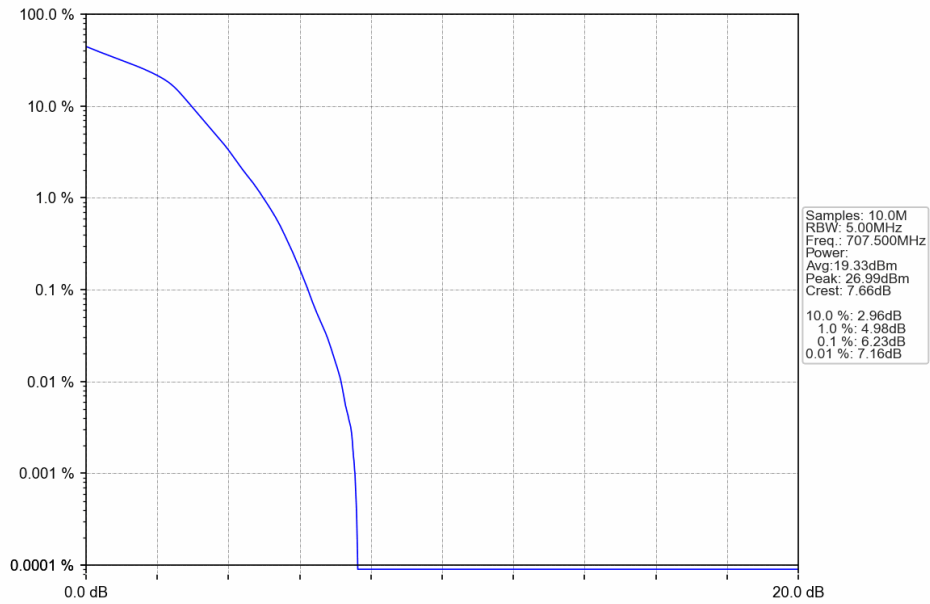
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



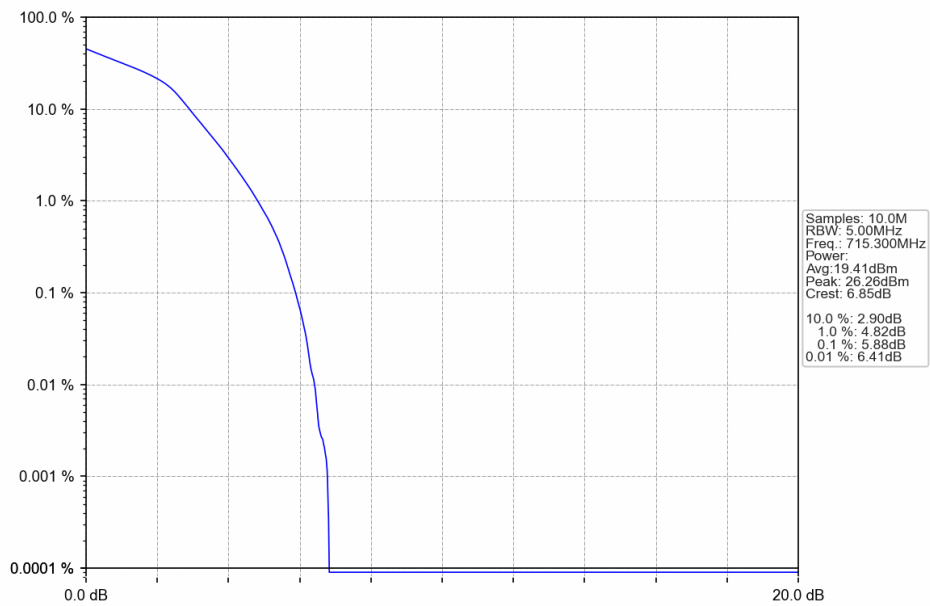
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

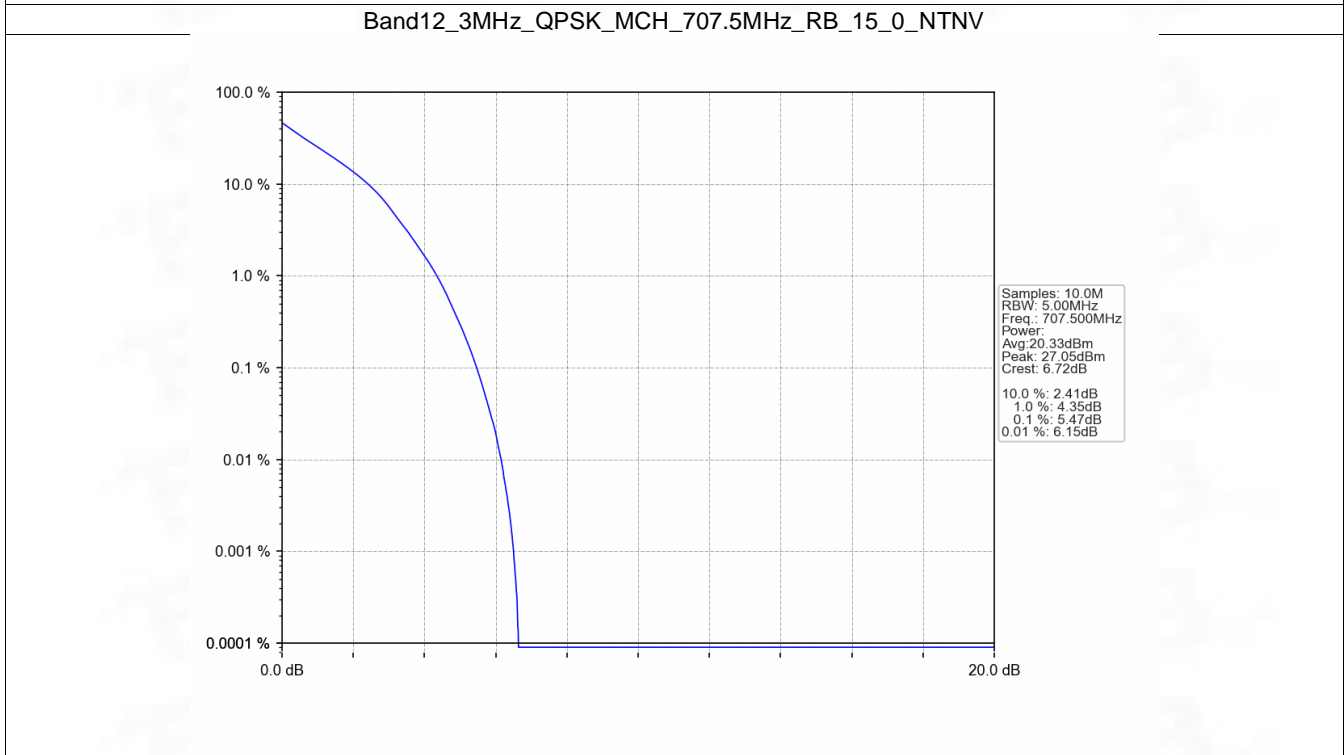
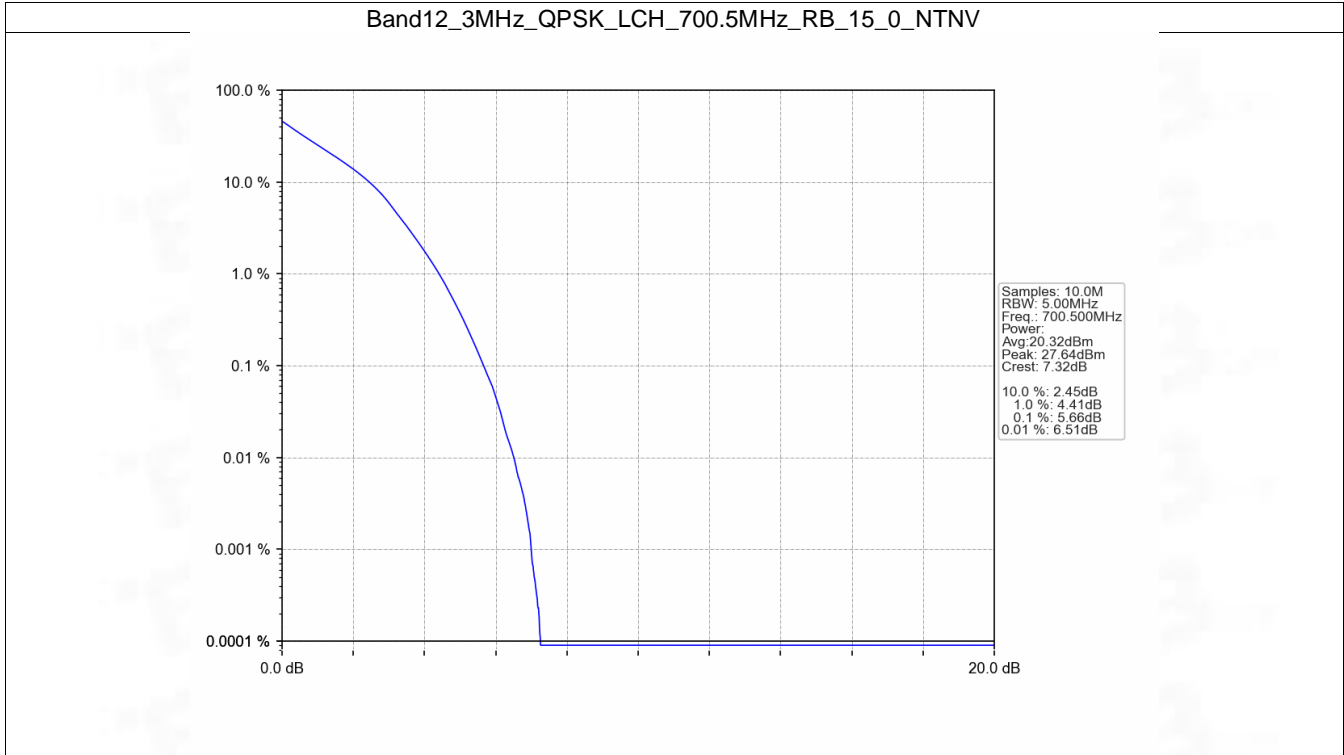


## 5.2 B12\_3MHz

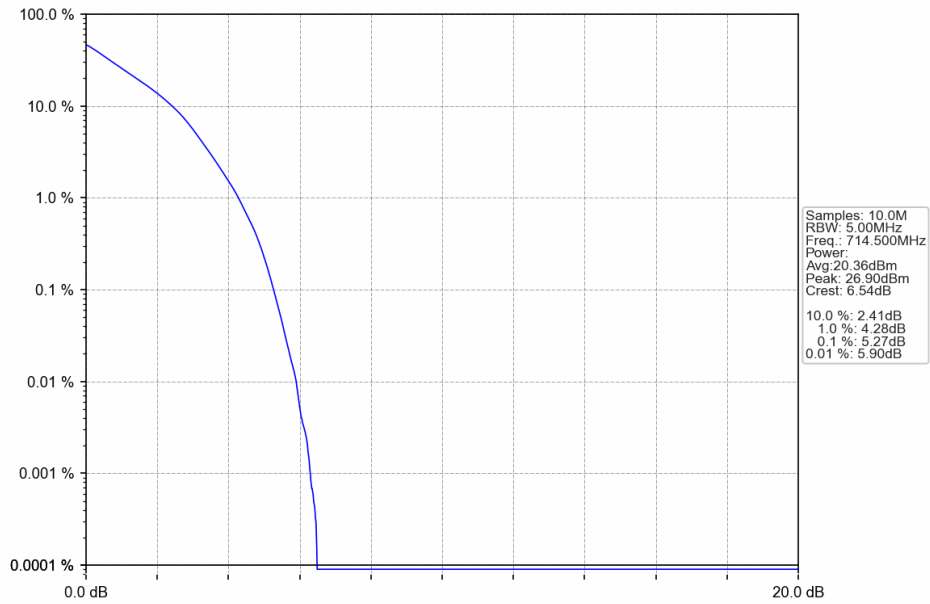
## 5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.66	<=13	Pass
	707.5	15	0	5.47	<=13	Pass
	714.5	15	0	5.27	<=13	Pass
16QAM	700.5	15	0	6.44	<=13	Pass
	707.5	15	0	6.32	<=13	Pass
	714.5	15	0	6.08	<=13	Pass

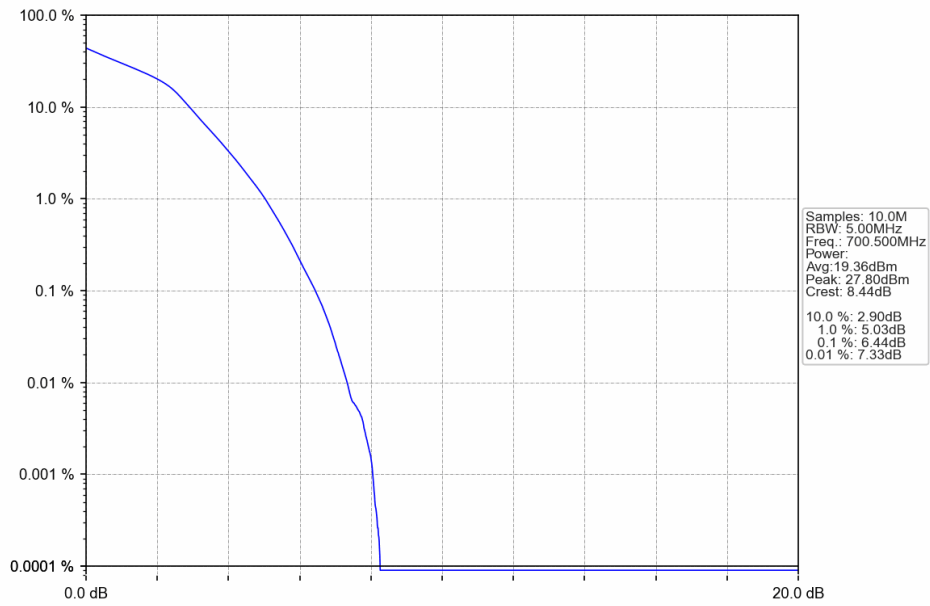
5.2.2 Test Graph

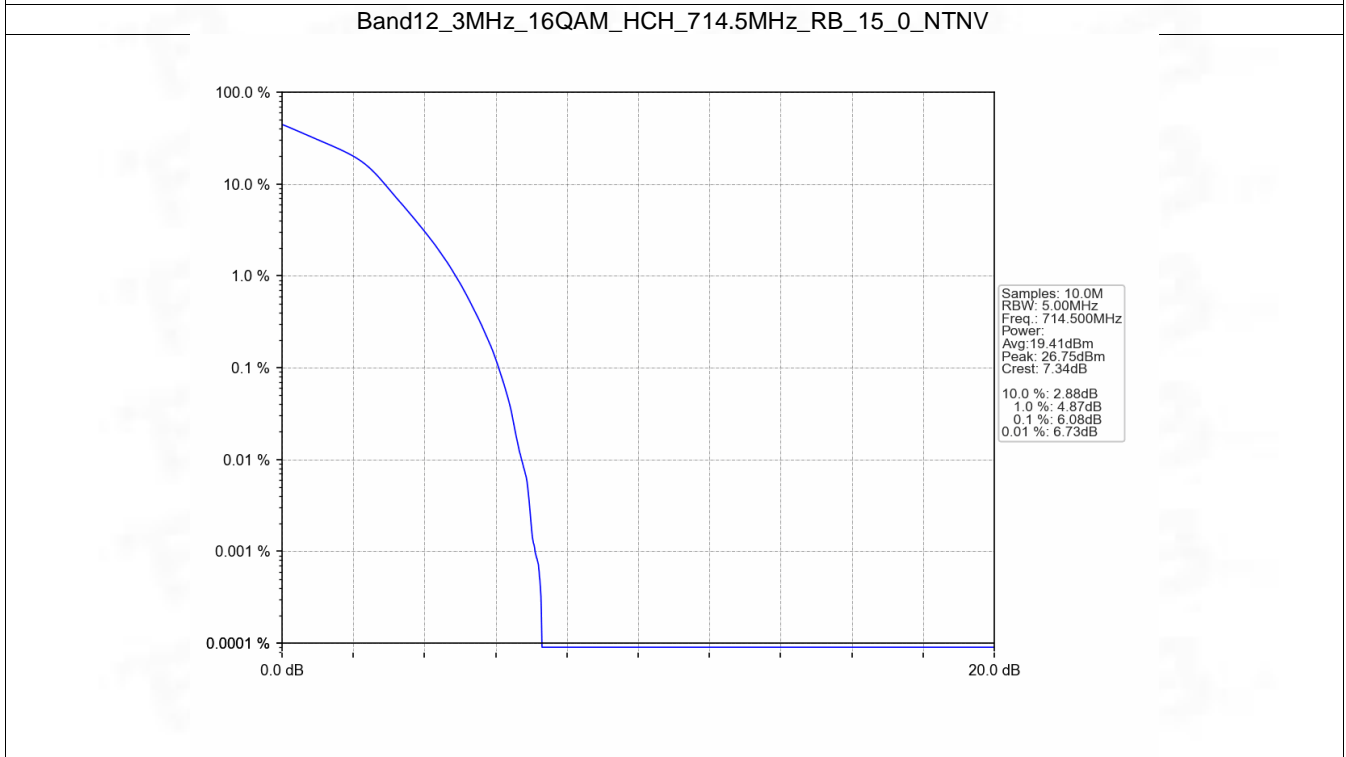
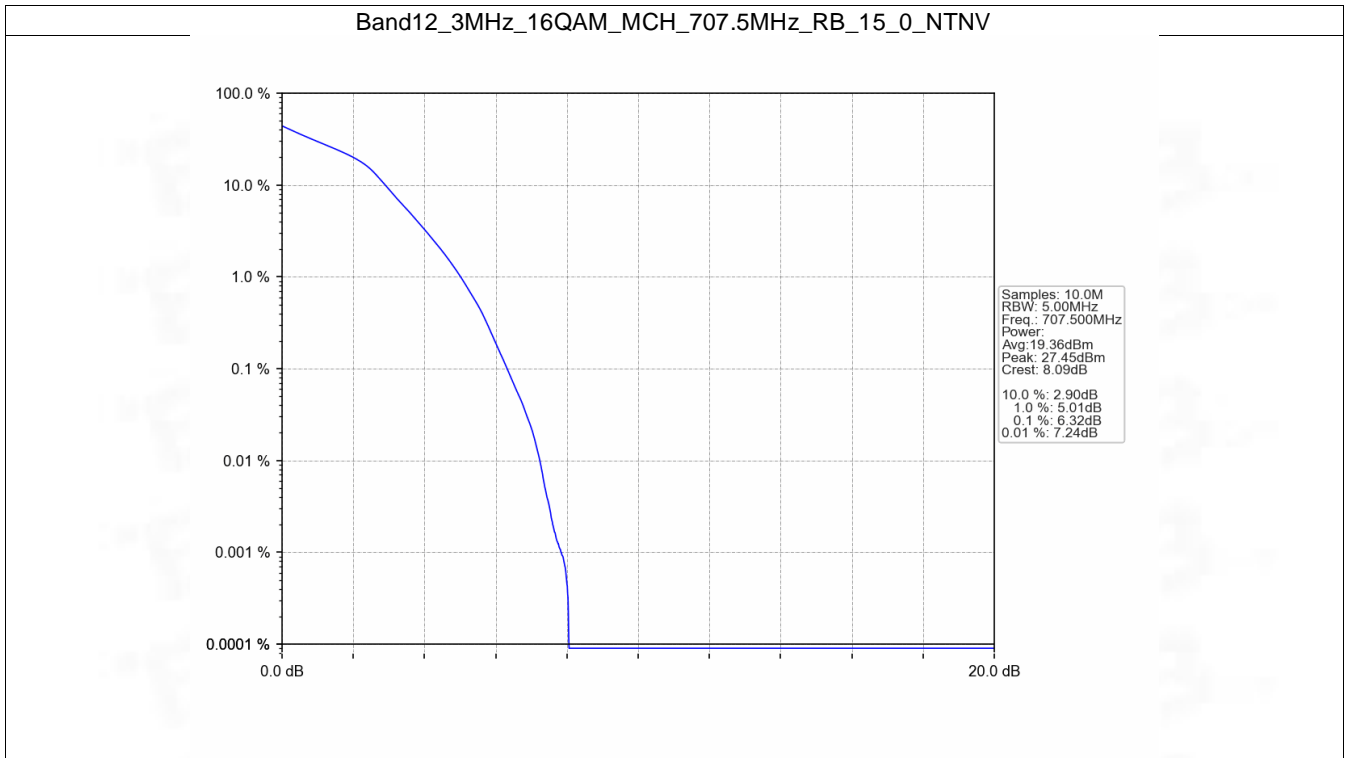


Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



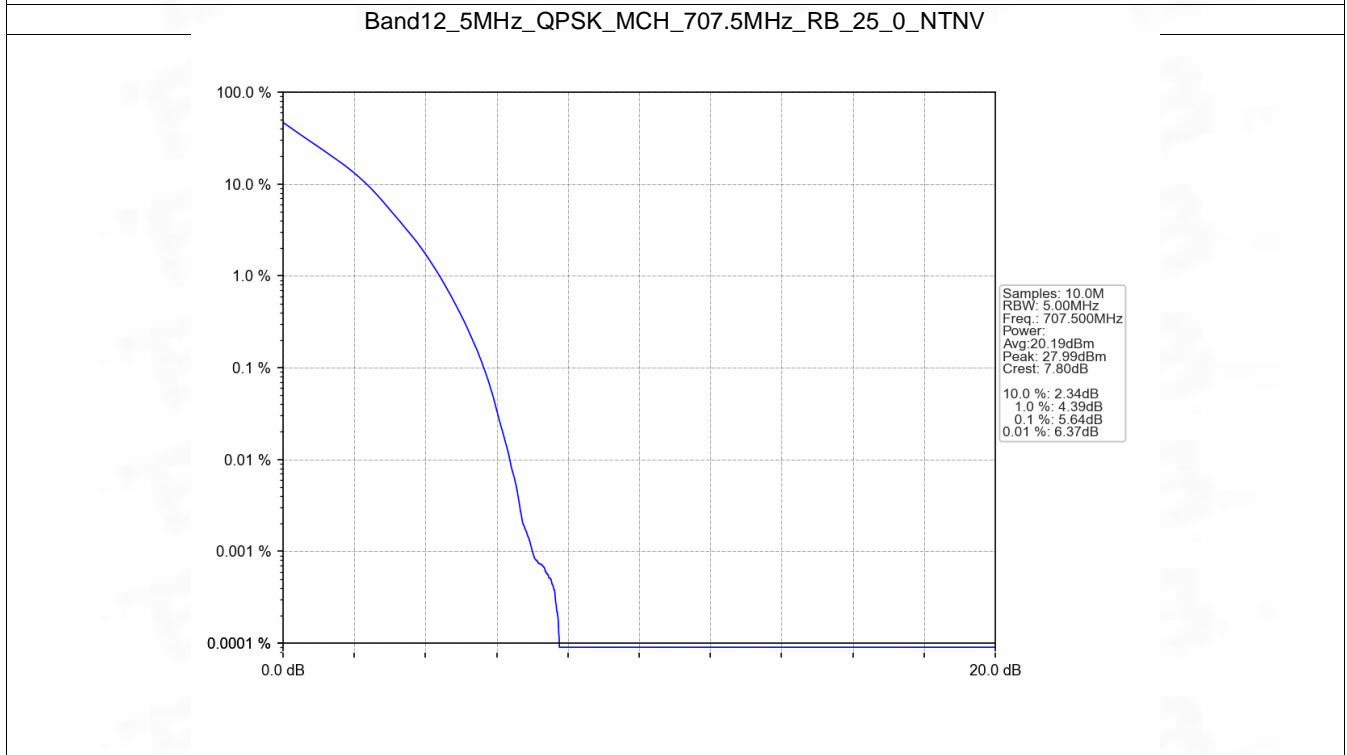
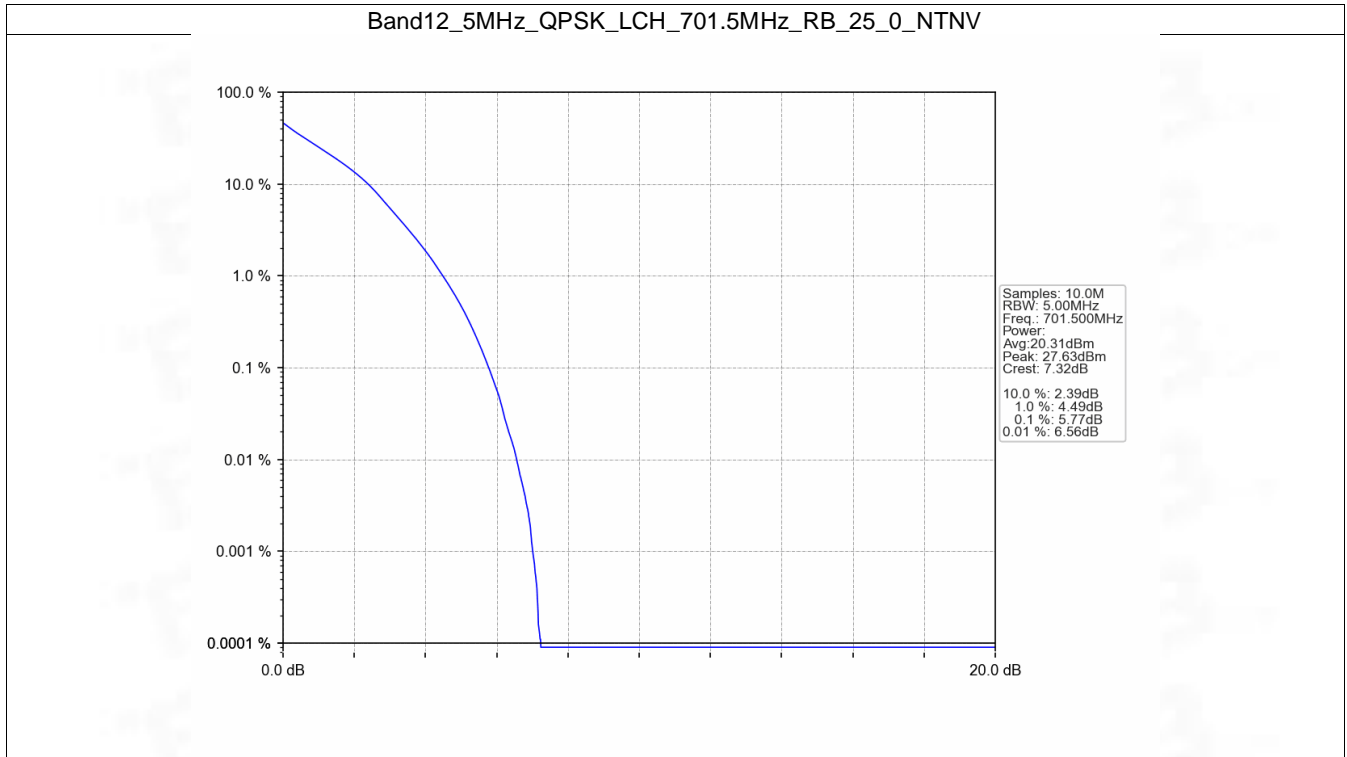


## 5.3 B12\_5MHz

## 5.3.1 Test Result

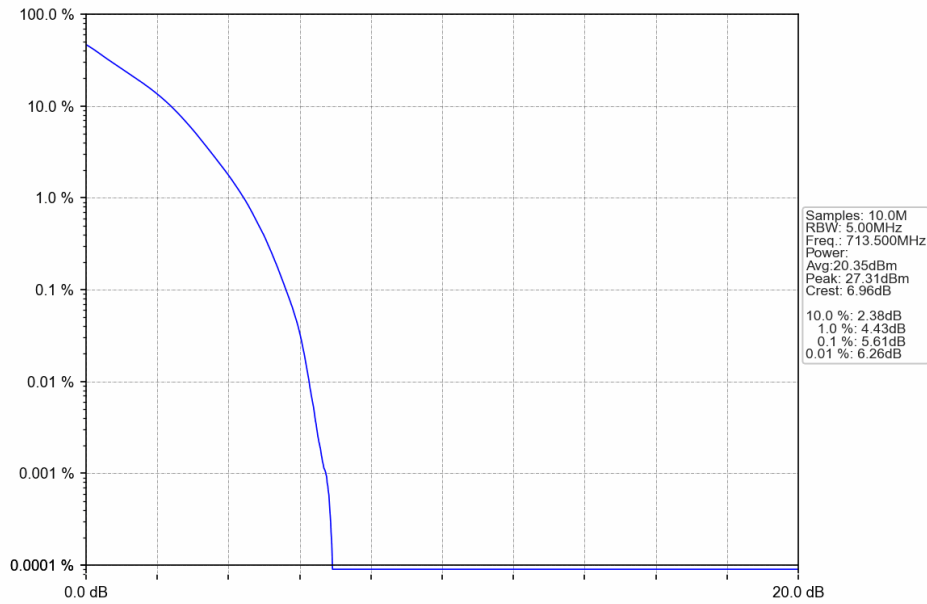
Band: 12 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.77	<=13	Pass
	707.5	25	0	5.64	<=13	Pass
	713.5	25	0	5.61	<=13	Pass
16QAM	701.5	25	0	6.40	<=13	Pass
	707.5	25	0	6.31	<=13	Pass
	713.5	25	0	6.32	<=13	Pass

5.3.2 Test Graph

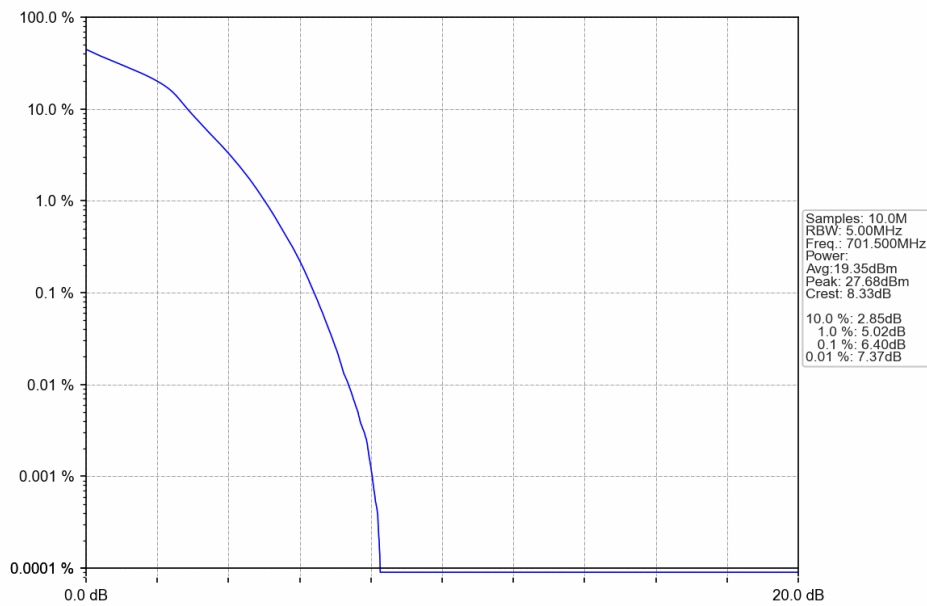


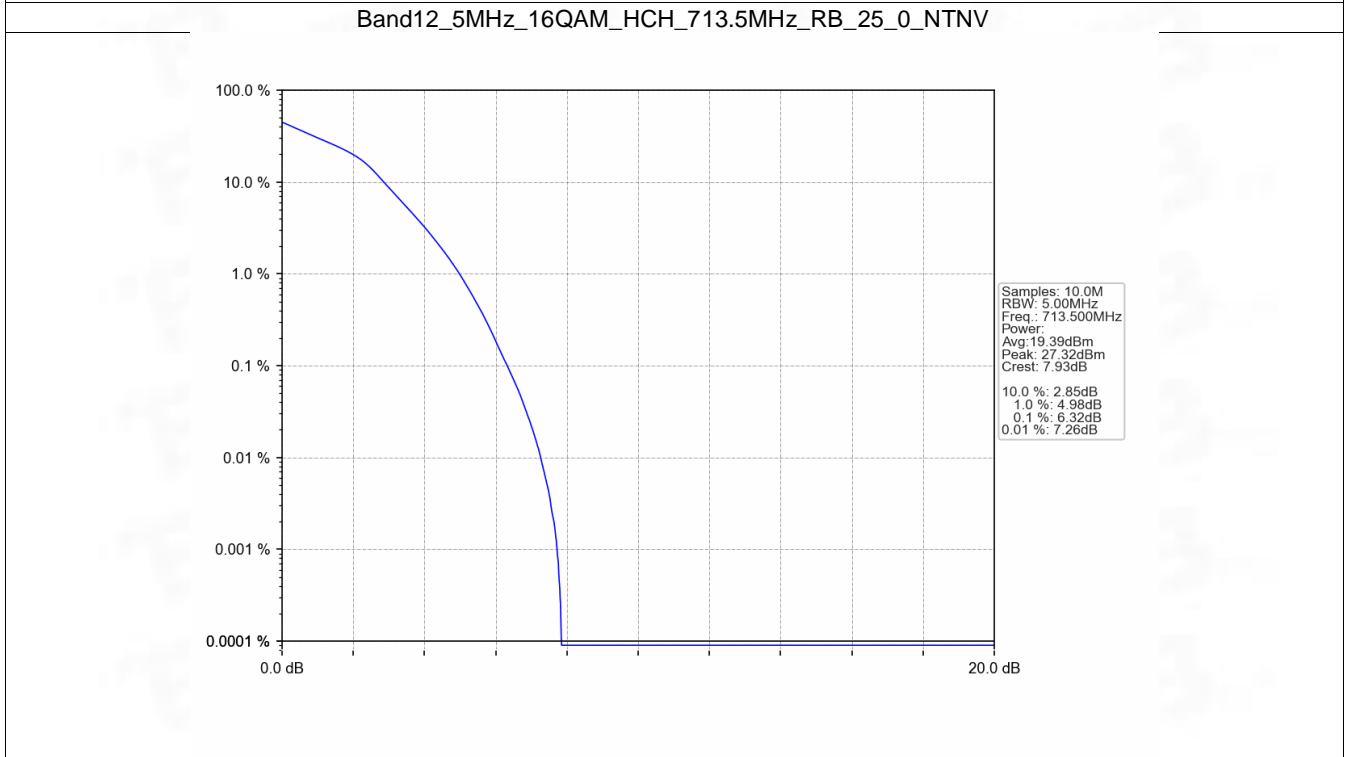
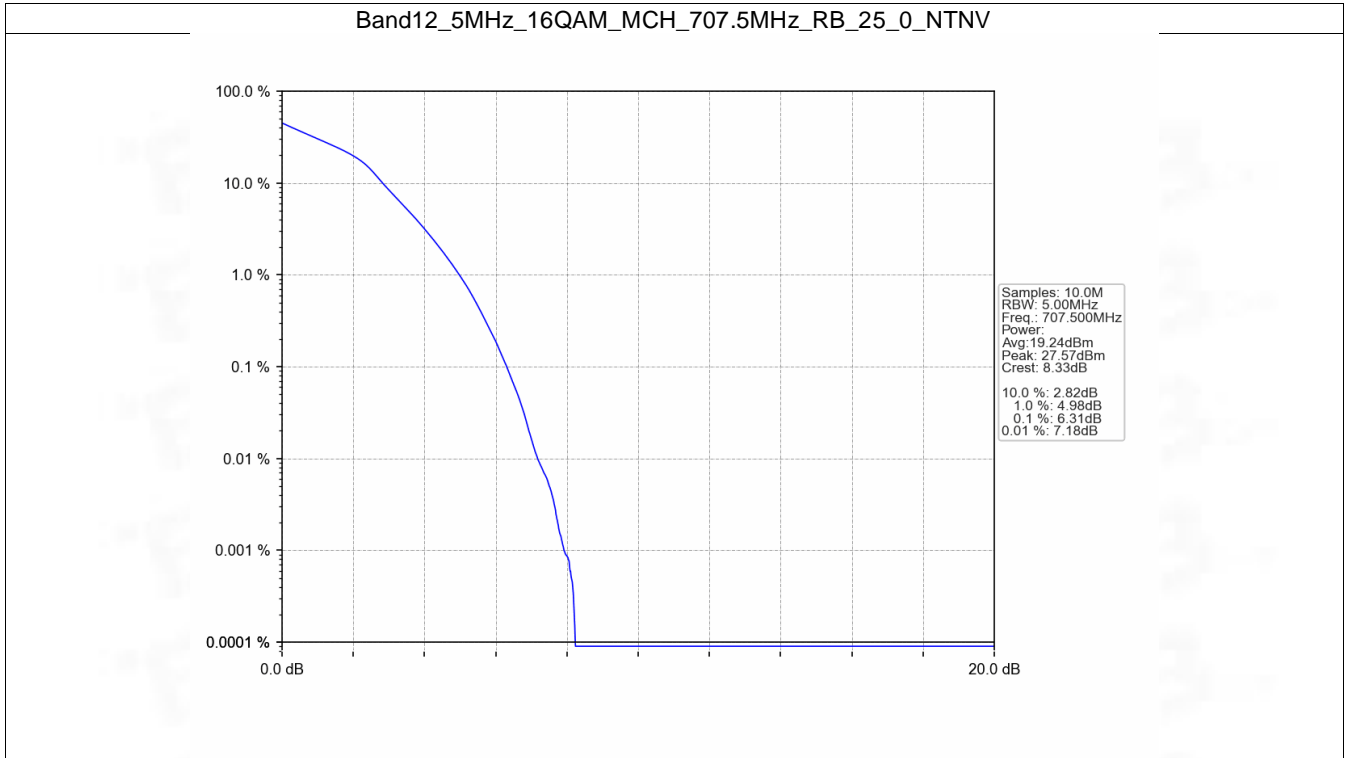


Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



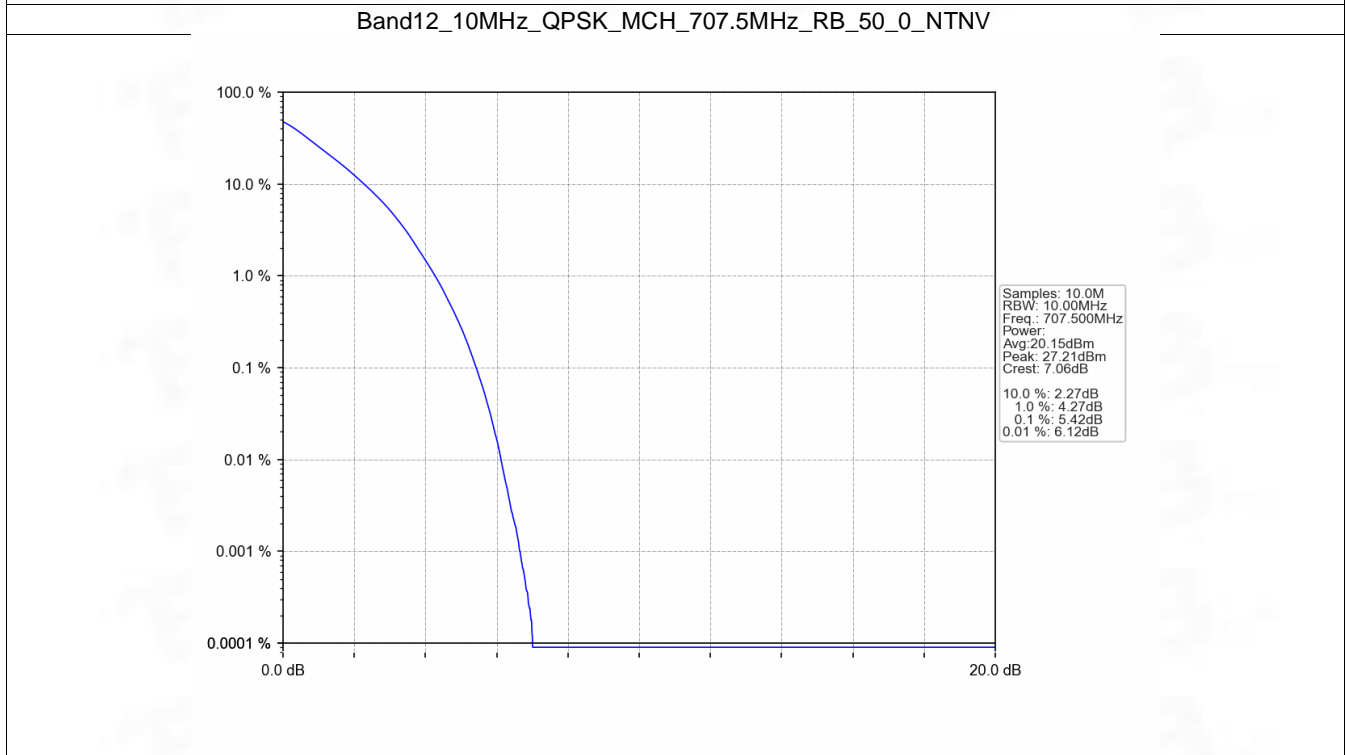
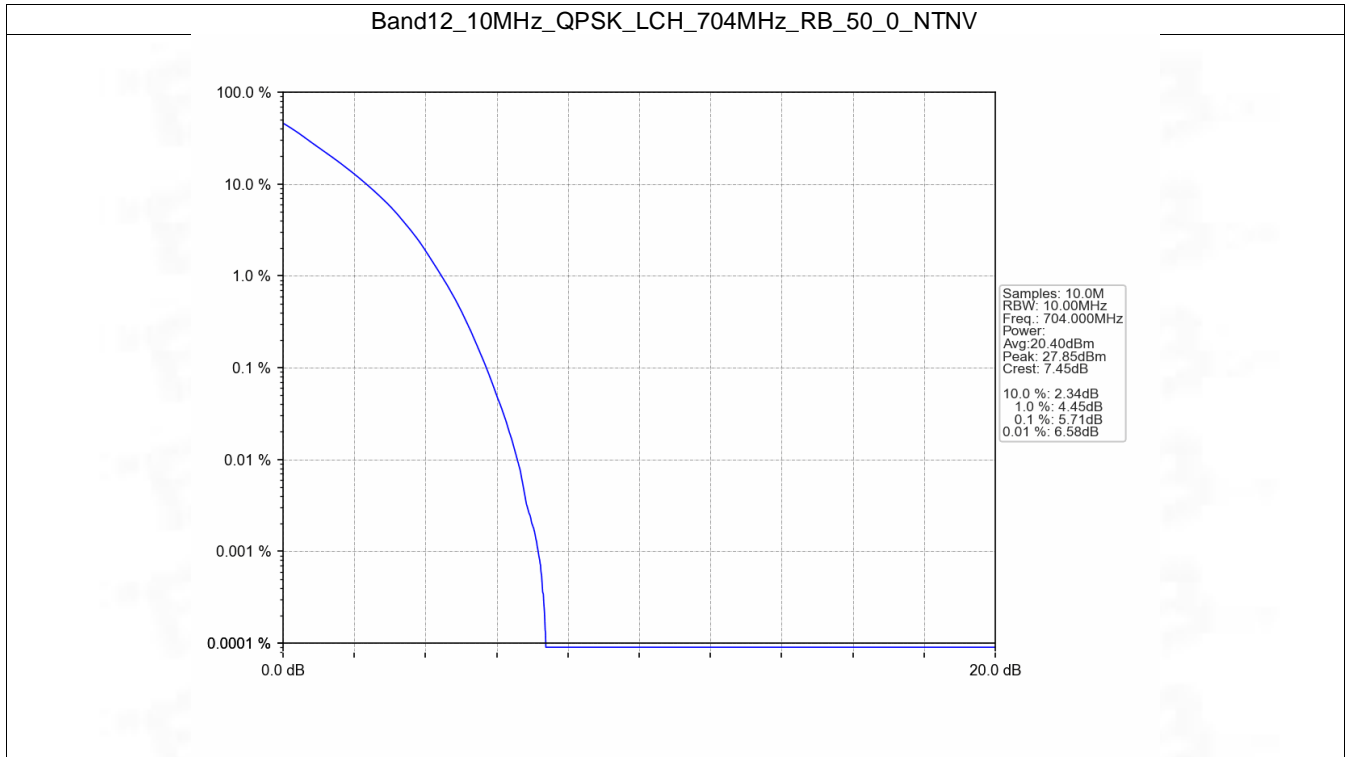


## 5.4 B12\_10MHz

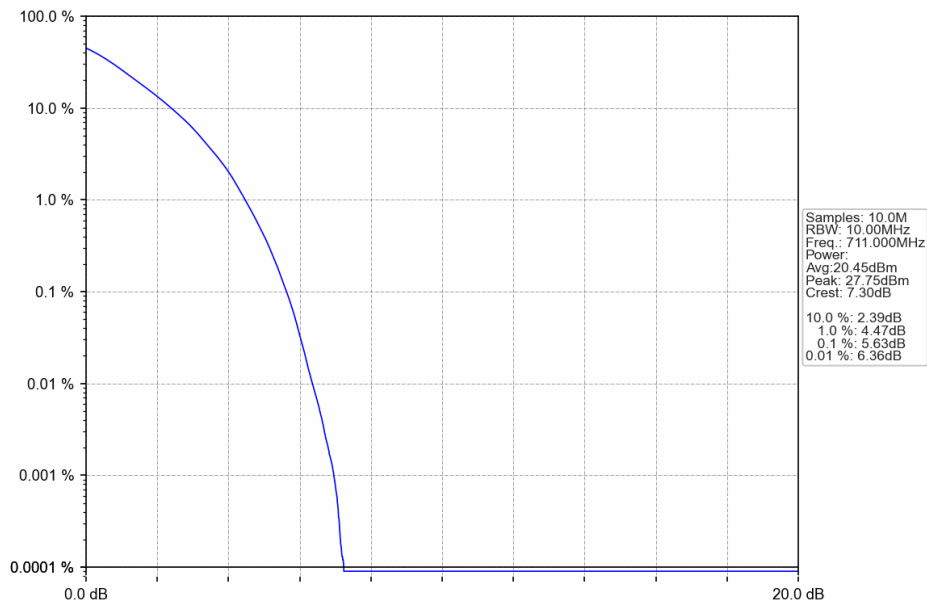
## 5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.71	<=13	Pass
	707.5	50	0	5.42	<=13	Pass
	711	50	0	5.63	<=13	Pass
16QAM	704	50	0	6.36	<=13	Pass
	707.5	50	0	6.26	<=13	Pass
	711	50	0	6.38	<=13	Pass

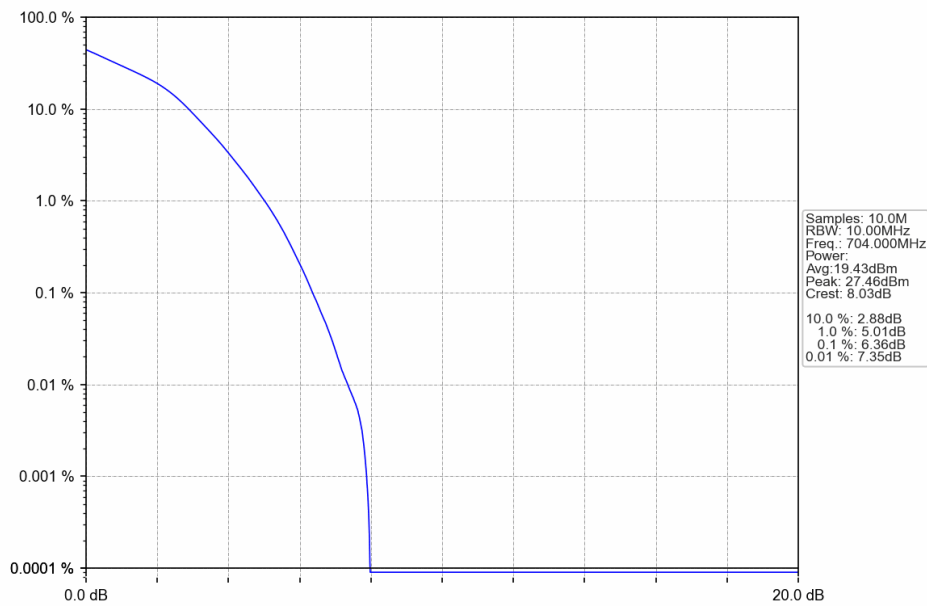
### 5.4.2 Test Graph



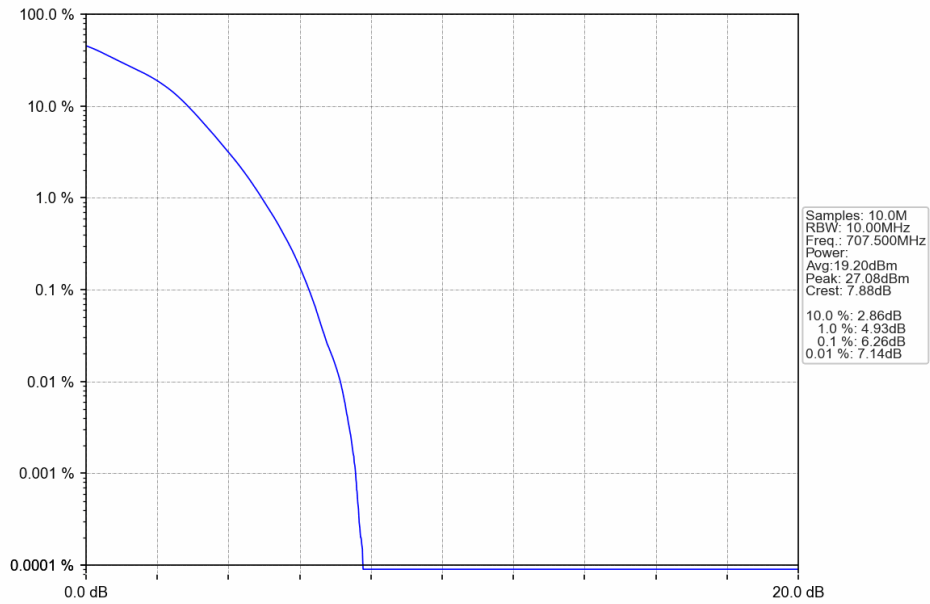
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



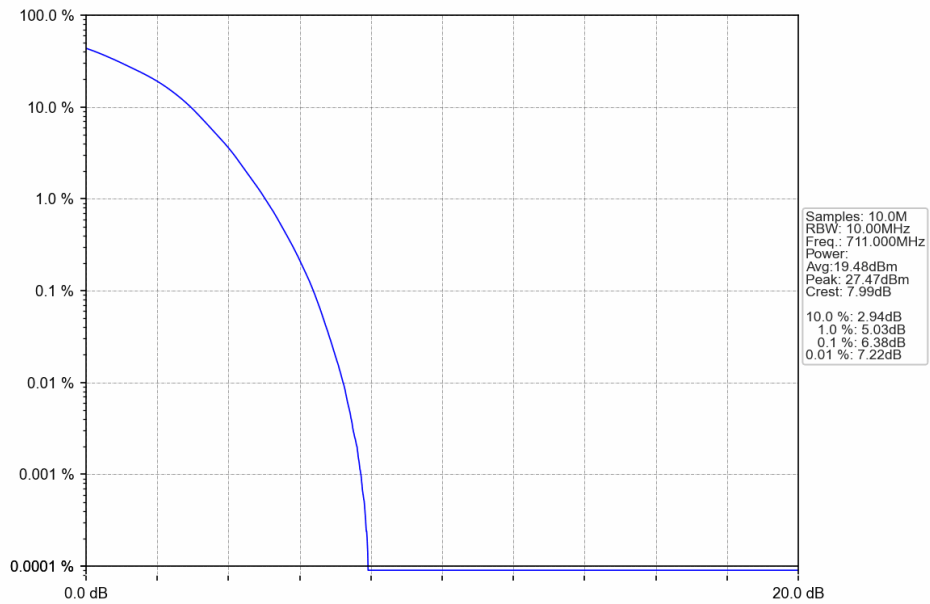
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



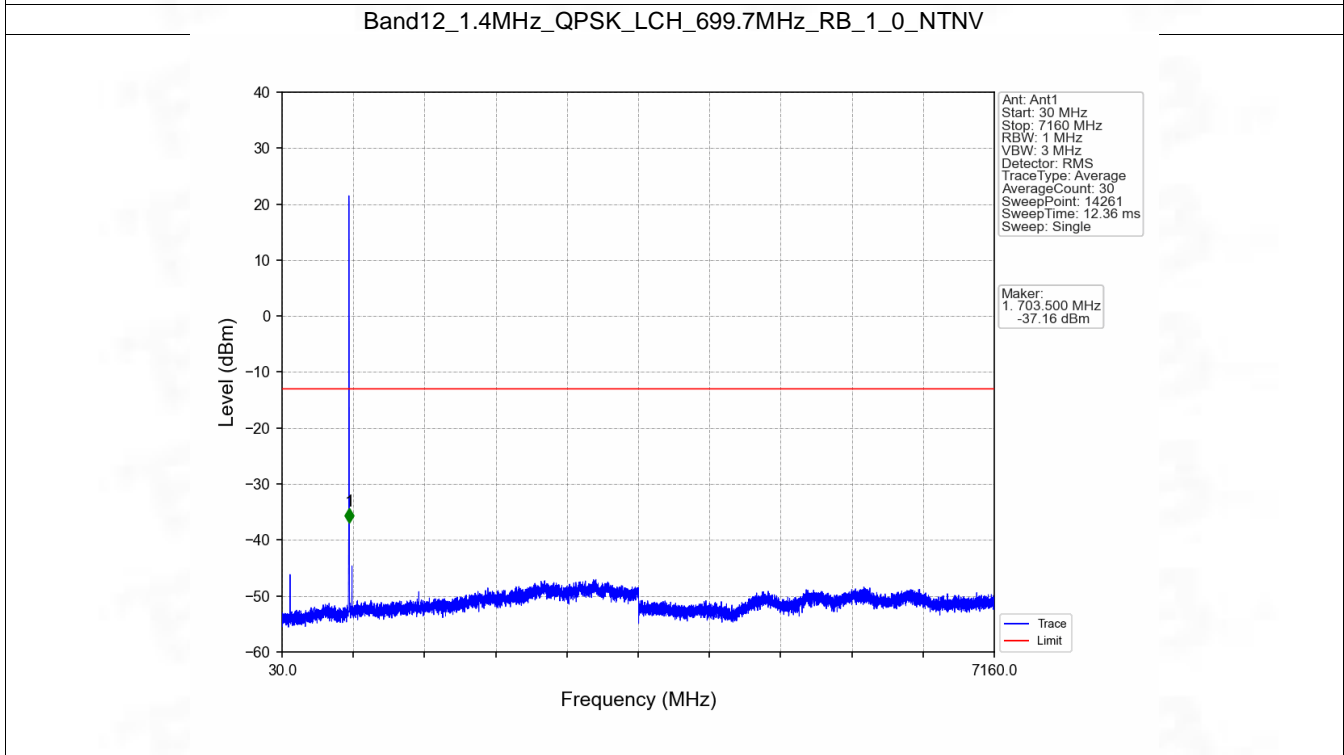
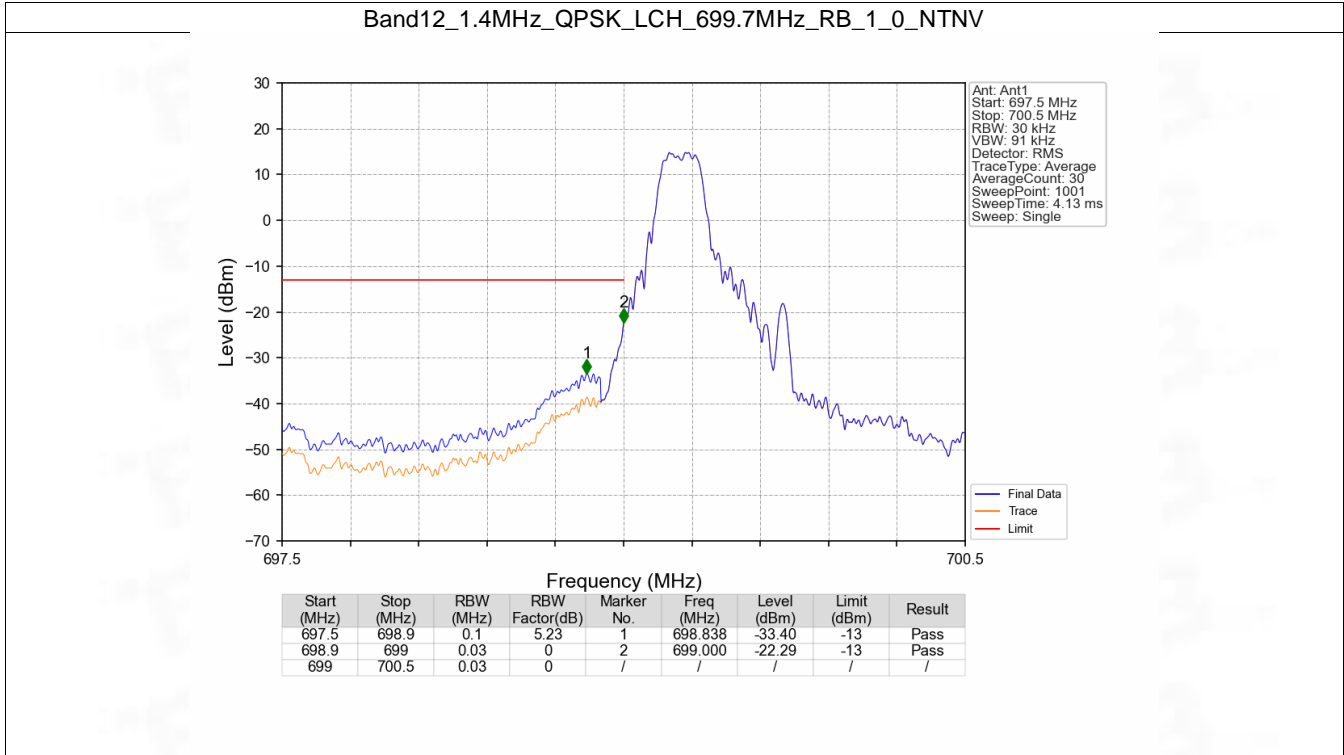
## 6. Spurious Emission

### 6.1 B12\_1.4MHz

#### 6.1.1 Test Result

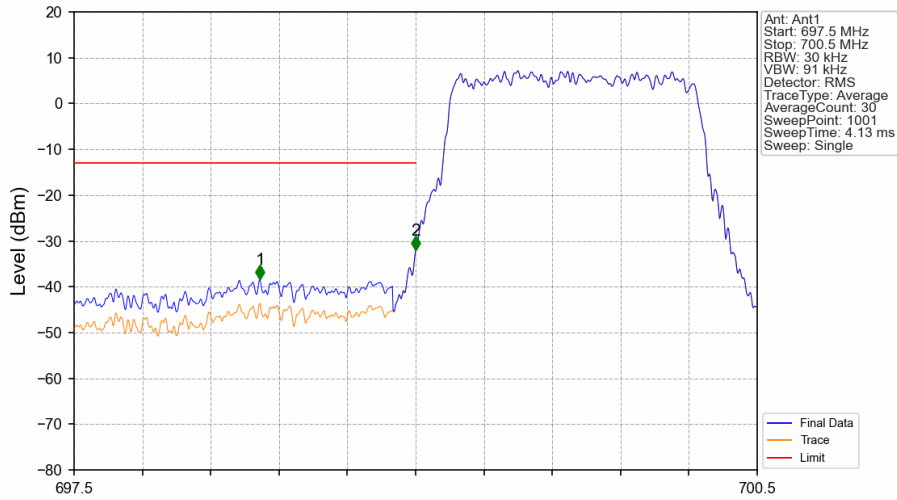
Band: 12 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		715.3	1	0	Refer To Test Graph	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	

6.1.2 Test Graph



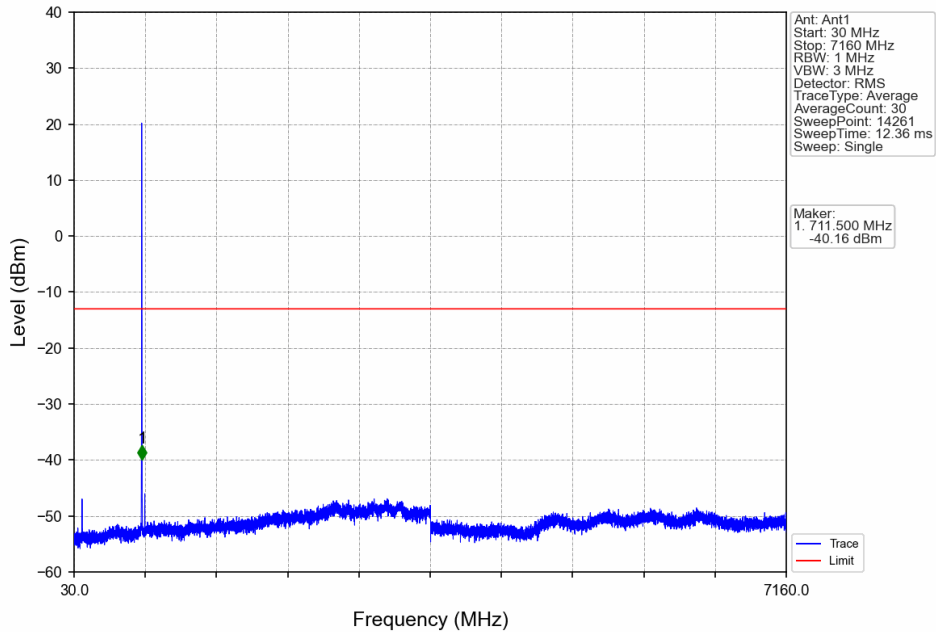


Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

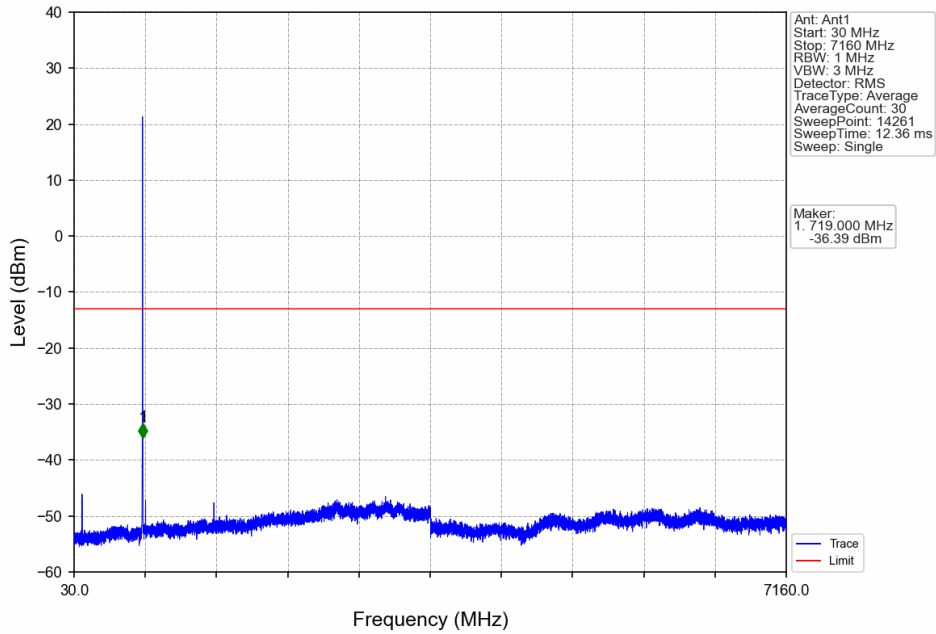


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.316	-38.40	-13	Pass
698.9	699	0.03	0	2	699.000	-32.04	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

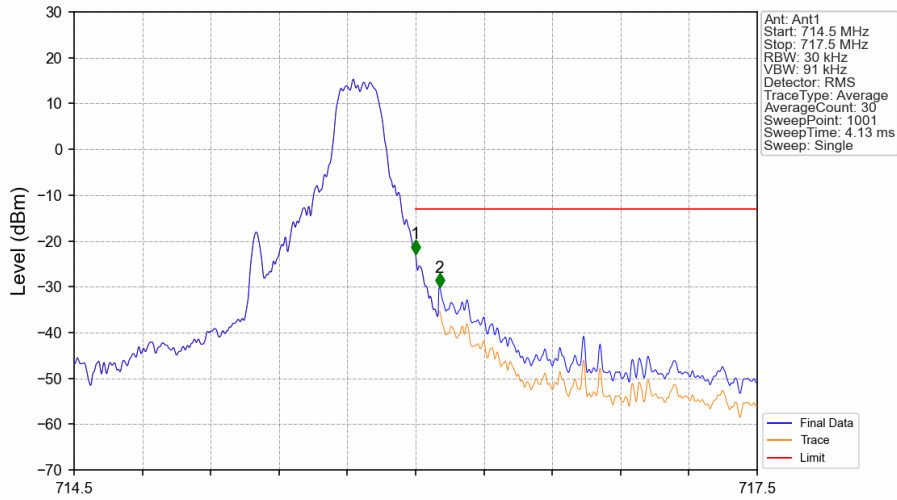
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

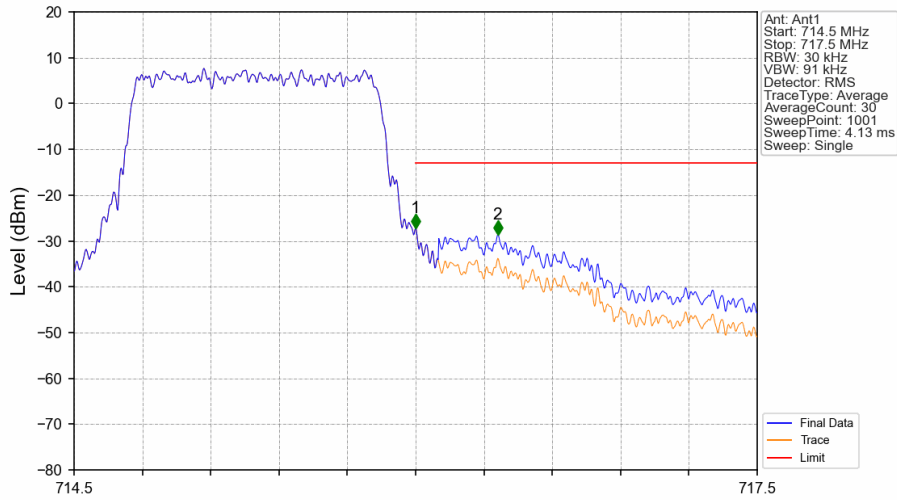


Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



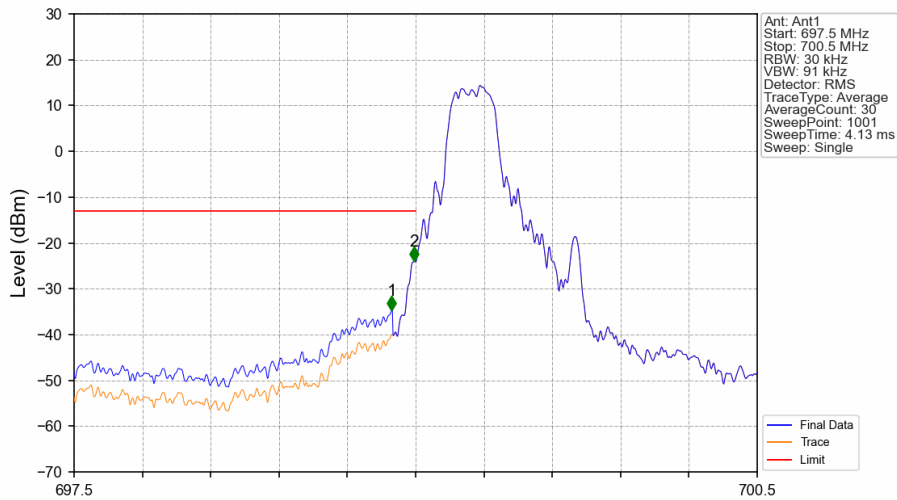
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-22.85	-13	Pass
716.1	717.5	0.1	5.23	2	716.105	-30.14	-13	Pass

Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



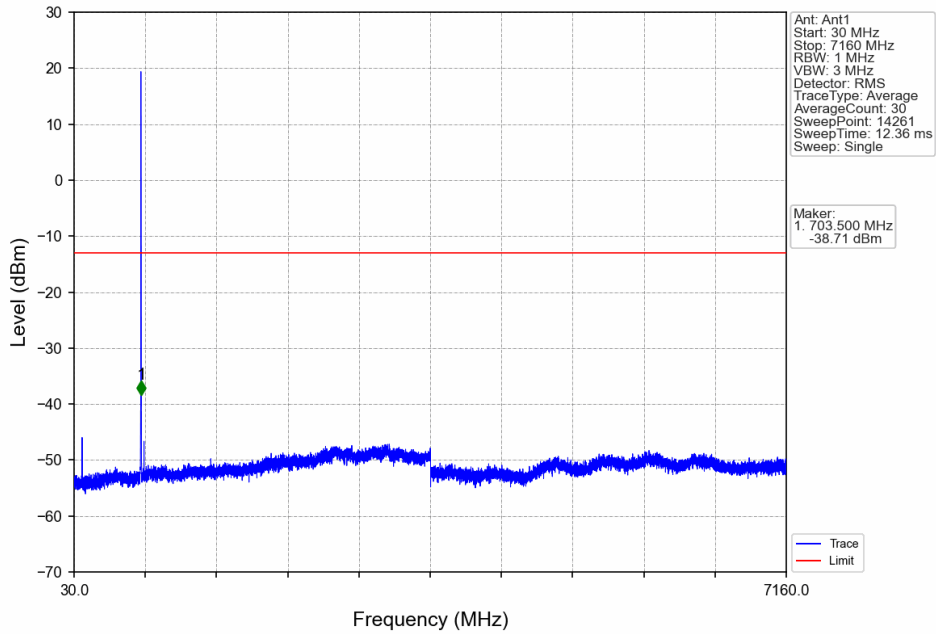
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-27.18	-13	Pass
716.1	717.5	0.1	5.23	2	716.360	-28.61	-13	Pass

Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

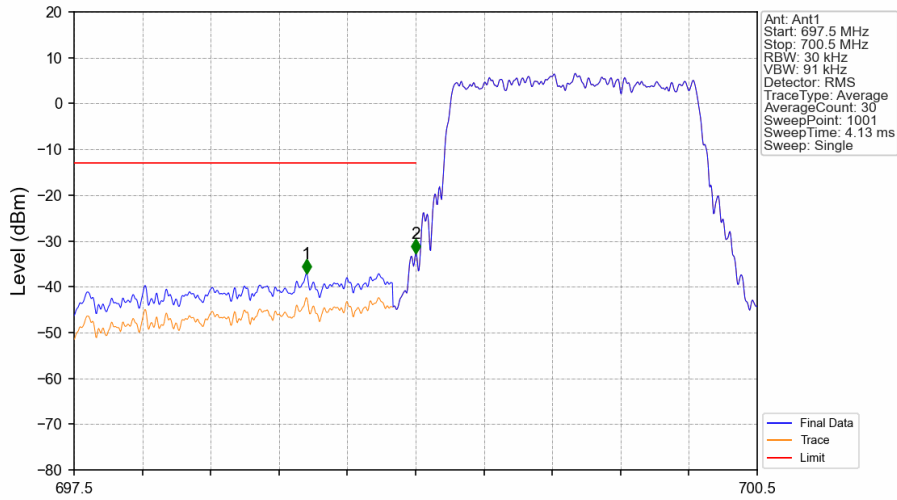


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.895	-34.75	-13	Pass
698.9	699	0.03	0	2	698.994	-24.02	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

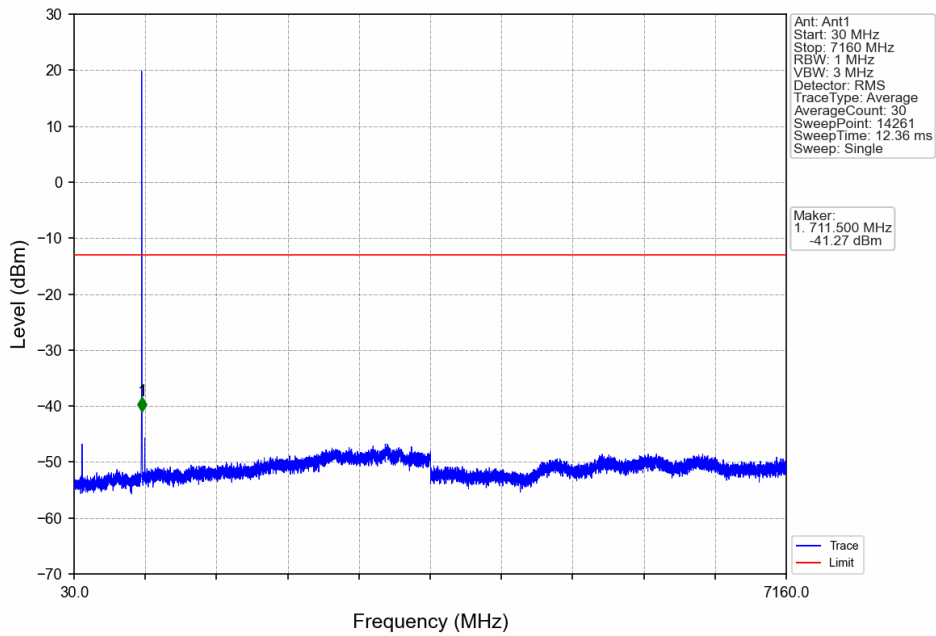


Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

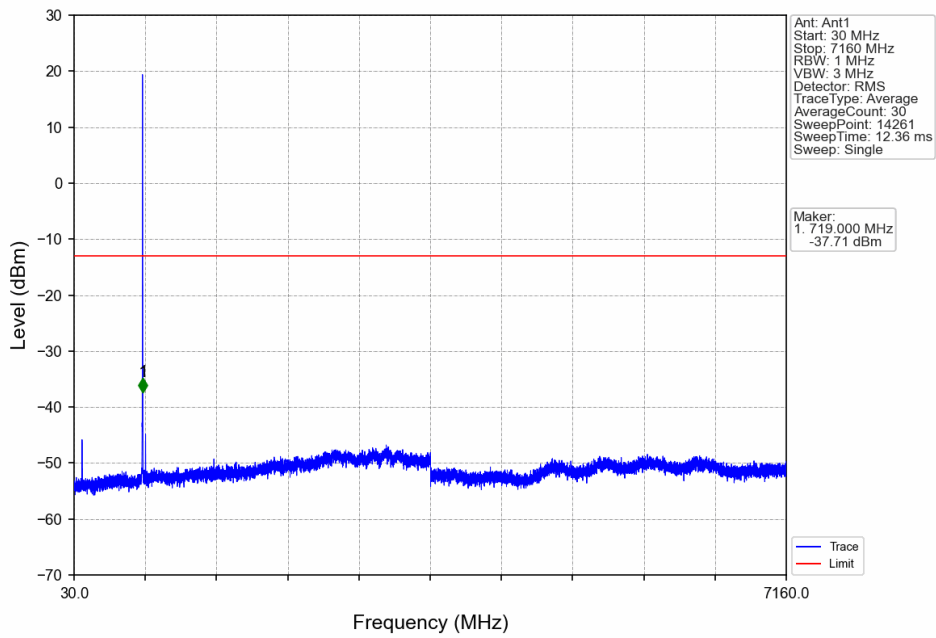


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.520	-37.13	-13	Pass
698.9	699	0.03	0	2	699.000	-32.73	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

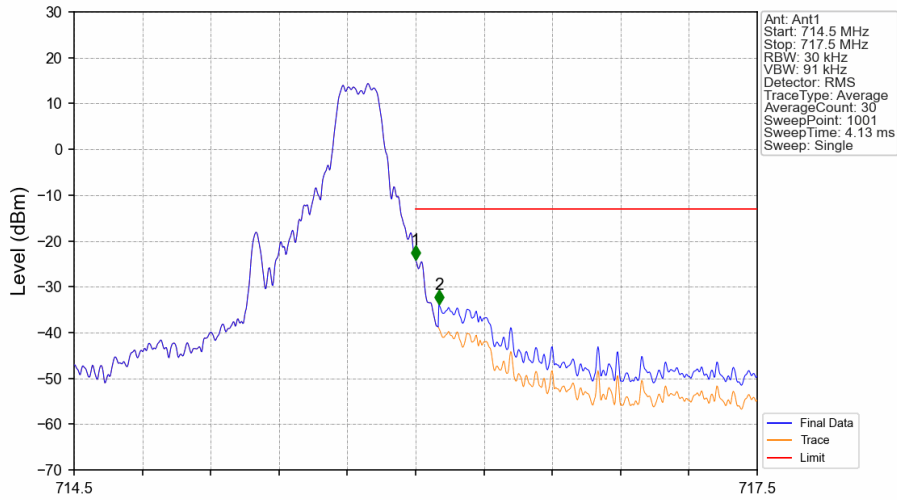
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV

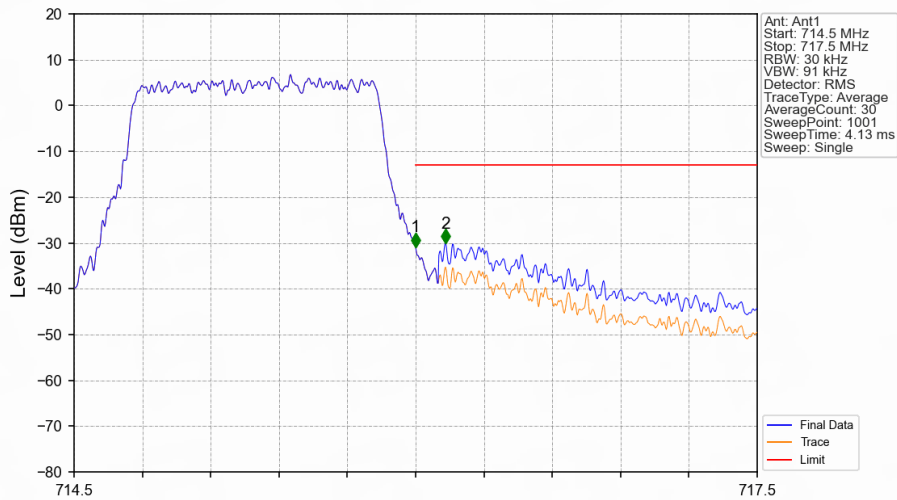


Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-24.21	-13	Pass
716.1	717.5	0.1	5.23	2	716.102	-33.83	-13	Pass

Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



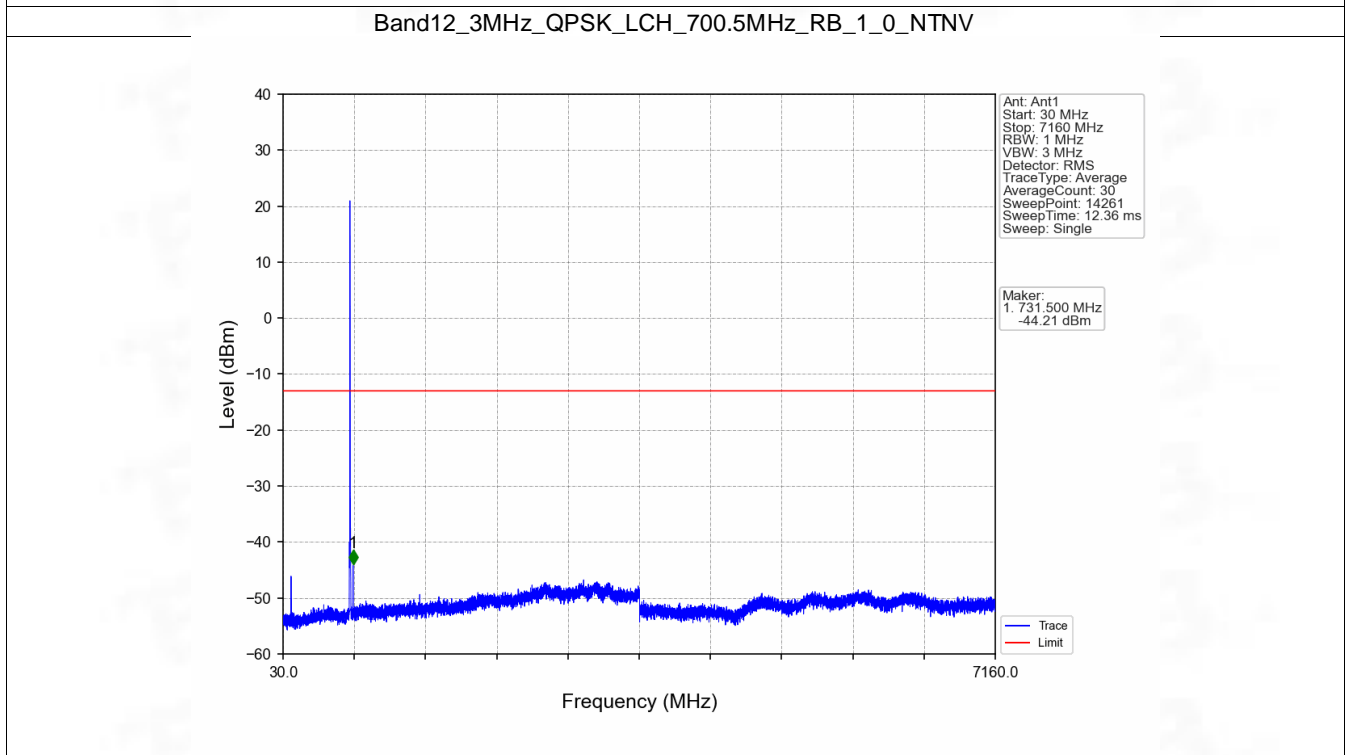
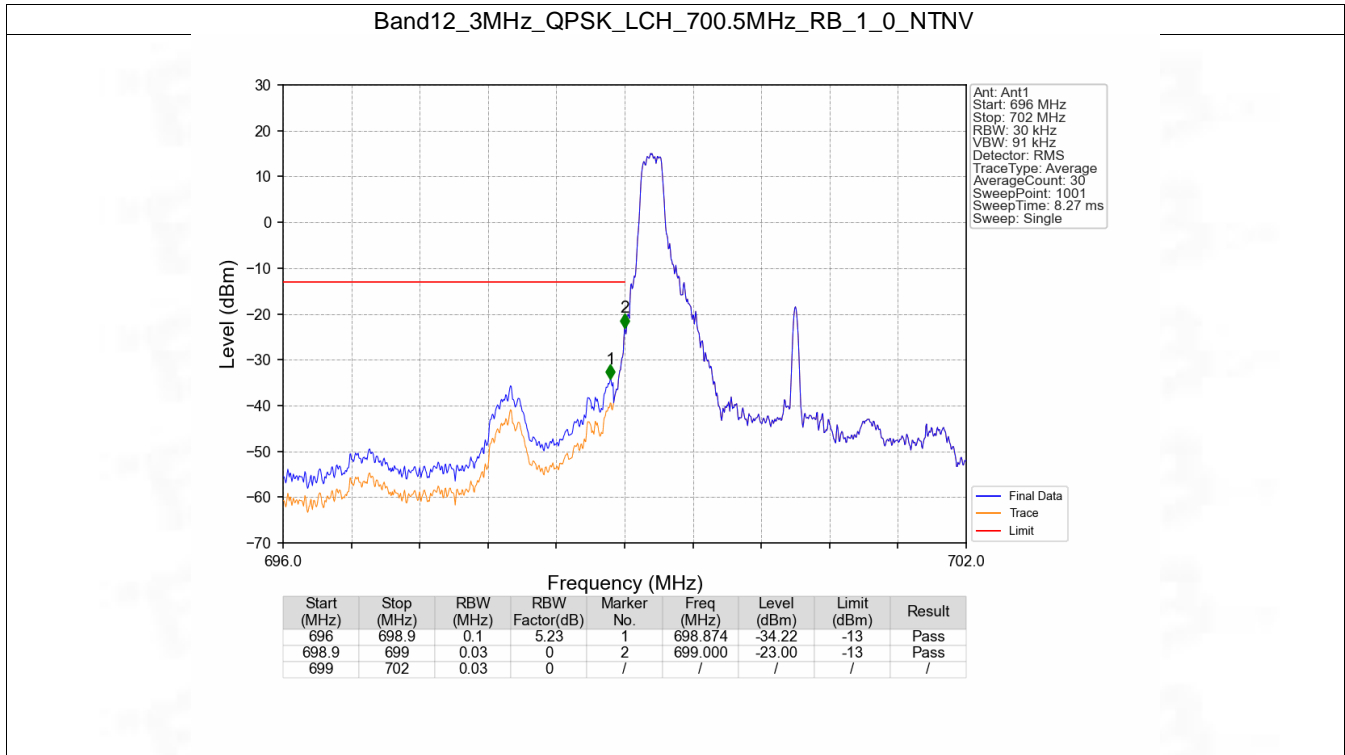
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-30.89	-13	Pass
716.1	717.5	0.1	5.23	2	716.132	-30.08	-13	Pass

6.2 B12\_3MHz

6.2.1 Test Result

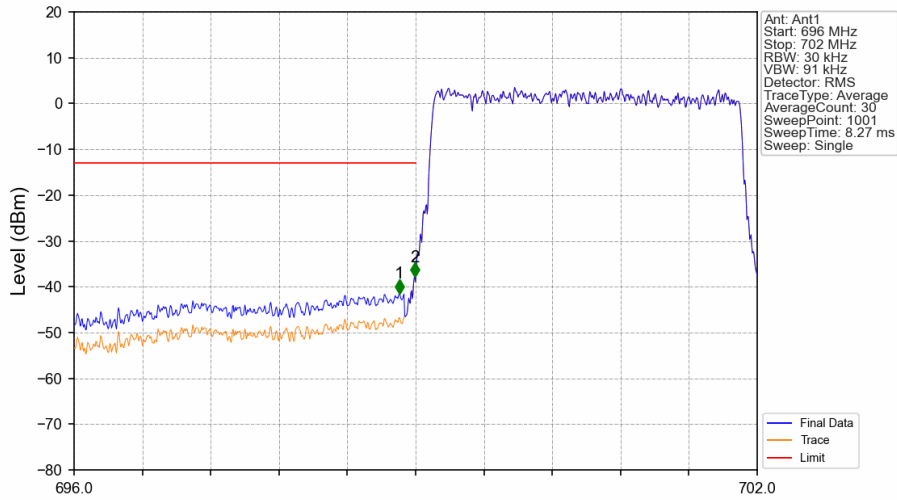
Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

### 6.2.2 Test Graph



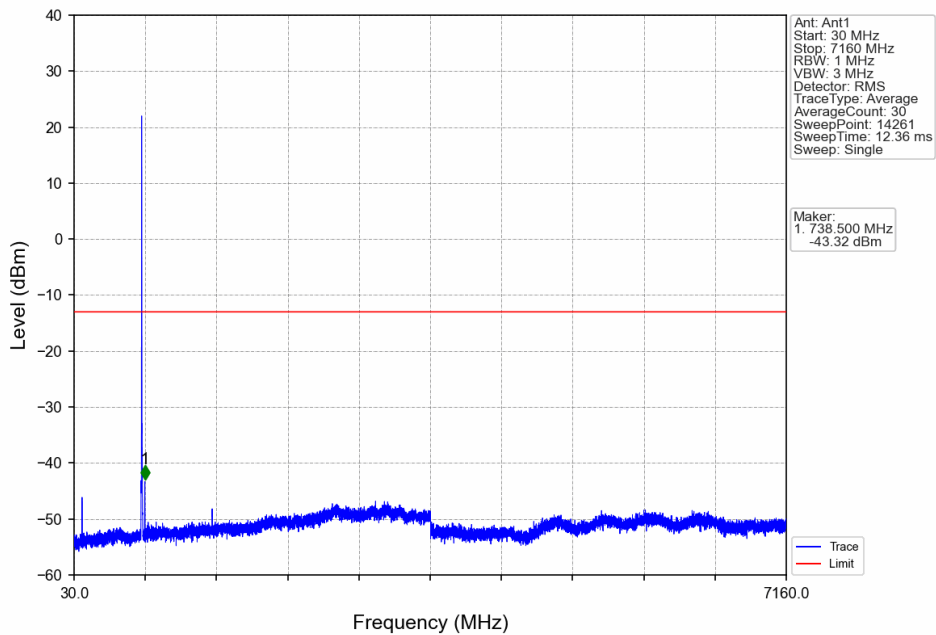


Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

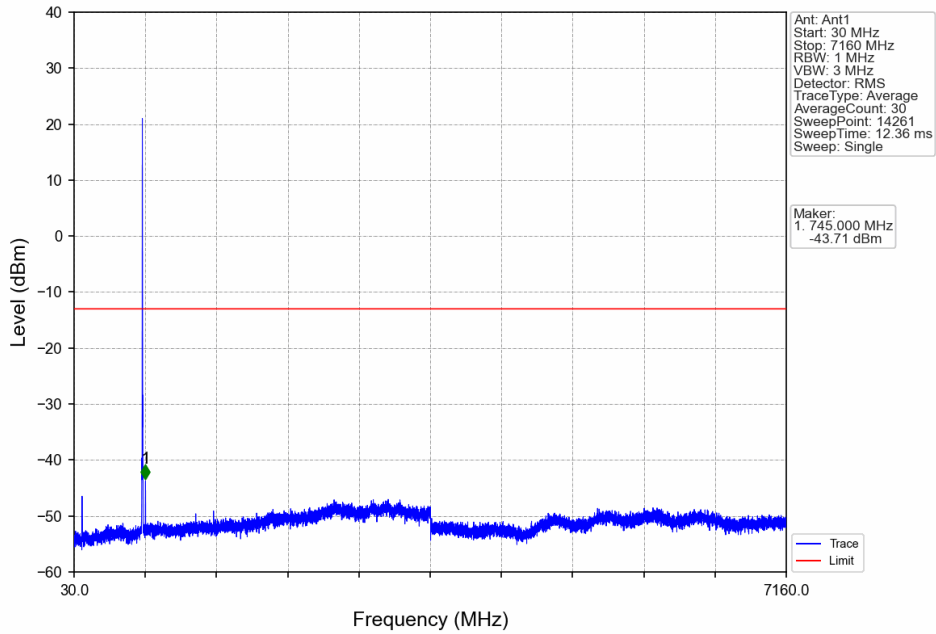


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.856	-41.49	-13	Pass
698.9	699	0.03	0	2	698.994	-37.92	-13	Pass
699	702	0.03	0	/	/	/	/	/

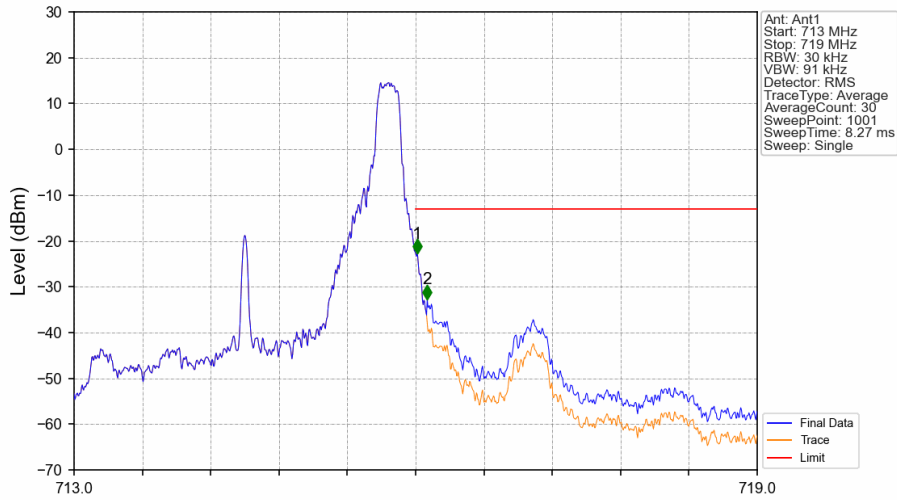
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



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)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.012	-22.70	-13	Pass
716.1	719	0.1	5.23	2	716.102	-32.70	-13	Pass