

# 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	23.84	-5.73	15.96	<=34.77	Pass		
			2	23.89	-5.73	16.01	<=34.77	Pass		
			5	24.11	-5.73	16.23	<=34.77	Pass		
		3	0	23.95	-5.73	16.07	<=34.77	Pass		
			2	24.06	-5.73	16.18	<=34.77	Pass		
			3	24.08	-5.73	16.2	<=34.77	Pass		
		6	0	23	-5.73	15.12	<=34.77	Pass		
		707.5	1	0	22.58	-5.73	14.7	<=34.77	Pass	
				2	22.64	-5.73	14.76	<=34.77	Pass	
	5			22.58	-5.73	14.7	<=34.77	Pass		
	3		0	22.62	-5.73	14.74	<=34.77	Pass		
			2	22.63	-5.73	14.75	<=34.77	Pass		
			3	22.63	-5.73	14.75	<=34.77	Pass		
	6		0	21.53	-5.73	13.65	<=34.77	Pass		
	715.3		1	0	22.3	-5.73	14.42	<=34.77	Pass	
				2	22.3	-5.73	14.42	<=34.77	Pass	
		5		22.46	-5.73	14.58	<=34.77	Pass		
		3	0	22.26	-5.73	14.38	<=34.77	Pass		
			2	22.33	-5.73	14.45	<=34.77	Pass		
			3	22.39	-5.73	14.51	<=34.77	Pass		
		6	0	21.59	-5.73	13.71	<=34.77	Pass		
		16QAM	699.7	1	0	23.19	-5.73	15.31	<=34.77	Pass
					2	23.22	-5.73	15.34	<=34.77	Pass
	5				23.3	-5.73	15.42	<=34.77	Pass	
3	0			23.01	-5.73	15.13	<=34.77	Pass		
	2			23.11	-5.73	15.23	<=34.77	Pass		
	3			22.97	-5.73	15.09	<=34.77	Pass		
6	0			21.47	-5.73	13.59	<=34.77	Pass		
707.5	1			0	21.63	-5.73	13.75	<=34.77	Pass	
				2	21.69	-5.73	13.81	<=34.77	Pass	
			5	21.63	-5.73	13.75	<=34.77	Pass		
	3		0	21.47	-5.73	13.59	<=34.77	Pass		
			2	21.49	-5.73	13.61	<=34.77	Pass		
			3	21.48	-5.73	13.6	<=34.77	Pass		
	6		0	20.51	-5.73	12.63	<=34.77	Pass		
	715.3		1	0	21.36	-5.73	13.48	<=34.77	Pass	
				2	21.4	-5.73	13.52	<=34.77	Pass	
5				21.53	-5.73	13.65	<=34.77	Pass		
3			0	21.4	-5.73	13.52	<=34.77	Pass		
			2	21.44	-5.73	13.56	<=34.77	Pass		
			3	21.42	-5.73	13.54	<=34.77	Pass		
6			0	20.44	-5.73	12.56	<=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 / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	700.5	1	0	23.44	-5.73	15.56	<=34.77	Pass		
			7	23.67	-5.73	15.79	<=34.77	Pass		
			14	23.65	-5.73	15.77	<=34.77	Pass		
		8	0	22.52	-5.73	14.64	<=34.77	Pass		
			4	22.63	-5.73	14.75	<=34.77	Pass		
			7	22.65	-5.73	14.77	<=34.77	Pass		
		15	0	22.61	-5.73	14.73	<=34.77	Pass		
		707.5	1	0	23.65	-5.73	15.77	<=34.77	Pass	
				7	23.64	-5.73	15.76	<=34.77	Pass	
	14			23.62	-5.73	15.74	<=34.77	Pass		
	8		0	22.68	-5.73	14.8	<=34.77	Pass		
			4	22.69	-5.73	14.81	<=34.77	Pass		
			7	22.69	-5.73	14.81	<=34.77	Pass		
	15		0	22.7	-5.73	14.82	<=34.77	Pass		
	714.5		1	0	22.52	-5.73	14.64	<=34.77	Pass	
				7	22.2	-5.73	14.32	<=34.77	Pass	
		14		22.4	-5.73	14.52	<=34.77	Pass		
		8	0	21.5	-5.73	13.62	<=34.77	Pass		
			4	21.49	-5.73	13.61	<=34.77	Pass		
			7	21.63	-5.73	13.75	<=34.77	Pass		
		15	0	21.54	-5.73	13.66	<=34.77	Pass		
		16QAM	700.5	1	0	21.72	-5.73	13.84	<=34.77	Pass
					7	21.33	-5.73	13.45	<=34.77	Pass
	14				21.47	-5.73	13.59	<=34.77	Pass	
8	0			20.35	-5.73	12.47	<=34.77	Pass		
	4			20.26	-5.73	12.38	<=34.77	Pass		
	7			20.32	-5.73	12.44	<=34.77	Pass		
15	0			20.24	-5.73	12.36	<=34.77	Pass		
707.5	1			0	21.58	-5.73	13.7	<=34.77	Pass	
				7	21.65	-5.73	13.77	<=34.77	Pass	
			14	21.61	-5.73	13.73	<=34.77	Pass		
	8		0	20.54	-5.73	12.66	<=34.77	Pass		
			4	20.55	-5.73	12.67	<=34.77	Pass		
			7	20.55	-5.73	12.67	<=34.77	Pass		
	15		0	20.51	-5.73	12.63	<=34.77	Pass		
	714.5		1	0	21.48	-5.73	13.6	<=34.77	Pass	
				7	21.3	-5.73	13.42	<=34.77	Pass	
14				21.47	-5.73	13.59	<=34.77	Pass		
8			0	20.58	-5.73	12.7	<=34.77	Pass		
			4	20.6	-5.73	12.72	<=34.77	Pass		
			7	20.58	-5.73	12.7	<=34.77	Pass		
15			0	20.55	-5.73	12.67	<=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 / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	701.5	1	0	23.71	-5.73	15.83	<=34.77	Pass		
			13	23.88	-5.73	16	<=34.77	Pass		
			24	23.94	-5.73	16.06	<=34.77	Pass		
		12	0	22.61	-5.73	14.73	<=34.77	Pass		
			6	22.7	-5.73	14.82	<=34.77	Pass		
			13	22.65	-5.73	14.77	<=34.77	Pass		
		25	0	22.65	-5.73	14.77	<=34.77	Pass		
		707.5	1	0	23.74	-5.73	15.86	<=34.77	Pass	
				13	23.74	-5.73	15.86	<=34.77	Pass	
	24			23.77	-5.73	15.89	<=34.77	Pass		
	12		0	22.73	-5.73	14.85	<=34.77	Pass		
			6	22.72	-5.73	14.84	<=34.77	Pass		
			13	22.71	-5.73	14.83	<=34.77	Pass		
	25		0	22.72	-5.73	14.84	<=34.77	Pass		
	713.5		1	0	23.77	-5.73	15.89	<=34.77	Pass	
				13	23.71	-5.73	15.83	<=34.77	Pass	
		24		23.78	-5.73	15.9	<=34.77	Pass		
		12	0	22.72	-5.73	14.84	<=34.77	Pass		
			6	22.67	-5.73	14.79	<=34.77	Pass		
			13	22.52	-5.73	14.64	<=34.77	Pass		
		25	0	22.63	-5.73	14.75	<=34.77	Pass		
		16QAM	701.5	1	0	22.43	-5.73	14.55	<=34.77	Pass
					13	22.56	-5.73	14.68	<=34.77	Pass
	24				22.63	-5.73	14.75	<=34.77	Pass	
12	0			21.61	-5.73	13.73	<=34.77	Pass		
	6			21.69	-5.73	13.81	<=34.77	Pass		
	13			21.68	-5.73	13.8	<=34.77	Pass		
25	0			21.68	-5.73	13.8	<=34.77	Pass		
707.5	1			0	23.07	-5.73	15.19	<=34.77	Pass	
				13	22.99	-5.73	15.11	<=34.77	Pass	
			24	23	-5.73	15.12	<=34.77	Pass		
	12		0	21.76	-5.73	13.88	<=34.77	Pass		
			6	21.75	-5.73	13.87	<=34.77	Pass		
			13	21.72	-5.73	13.84	<=34.77	Pass		
	25		0	21.7	-5.73	13.82	<=34.77	Pass		
	713.5		1	0	22.8	-5.73	14.92	<=34.77	Pass	
				13	22.74	-5.73	14.86	<=34.77	Pass	
24				22.77	-5.73	14.89	<=34.77	Pass		
12			0	21.67	-5.73	13.79	<=34.77	Pass		
			6	21.65	-5.73	13.77	<=34.77	Pass		
			13	21.52	-5.73	13.64	<=34.77	Pass		
25			0	21.64	-5.73	13.76	<=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 / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	704	1	0	22.15	-5.73	14.27	<=34.77	Pass		
			25	22.51	-5.73	14.63	<=34.77	Pass		
			49	22.63	-5.73	14.75	<=34.77	Pass		
		25	0	21.27	-5.73	13.39	<=34.77	Pass		
			13	21.52	-5.73	13.64	<=34.77	Pass		
			25	21.51	-5.73	13.63	<=34.77	Pass		
		50	0	21.54	-5.73	13.66	<=34.77	Pass		
		707.5	1	0	22.38	-5.73	14.5	<=34.77	Pass	
				25	22.62	-5.73	14.74	<=34.77	Pass	
	49			22.06	-5.73	14.18	<=34.77	Pass		
	25		0	21.49	-5.73	13.61	<=34.77	Pass		
			13	21.52	-5.73	13.64	<=34.77	Pass		
			25	21.56	-5.73	13.68	<=34.77	Pass		
	50		0	21.56	-5.73	13.68	<=34.77	Pass		
	711		1	0	22.70	-5.73	14.82	<=34.77	Pass	
				25	22.63	-5.73	14.75	<=34.77	Pass	
		49		21.98	-5.73	14.1	<=34.77	Pass		
		25	0	21.54	-5.73	13.66	<=34.77	Pass		
			13	21.57	-5.73	13.69	<=34.77	Pass		
			25	21.24	-5.73	13.36	<=34.77	Pass		
		50	0	21.57	-5.73	13.69	<=34.77	Pass		
		16QAM	704	1	0	21.60	-5.73	13.72	<=34.77	Pass
					25	21.95	-5.73	14.07	<=34.77	Pass
	49				21.97	-5.73	14.09	<=34.77	Pass	
25	0			20.38	-5.73	12.5	<=34.77	Pass		
	13			20.57	-5.73	12.69	<=34.77	Pass		
	25			20.58	-5.73	12.7	<=34.77	Pass		
50	0			20.54	-5.73	12.66	<=34.77	Pass		
707.5	1			0	21.62	-5.73	13.74	<=34.77	Pass	
				25	21.66	-5.73	13.78	<=34.77	Pass	
			49	21.37	-5.73	13.49	<=34.77	Pass		
	25		0	20.52	-5.73	12.64	<=34.77	Pass		
			13	20.56	-5.73	12.68	<=34.77	Pass		
			25	20.59	-5.73	12.71	<=34.77	Pass		
	50		0	20.57	-5.73	12.69	<=34.77	Pass		
	711		1	0	21.51	-5.73	13.63	<=34.77	Pass	
				25	21.59	-5.73	13.71	<=34.77	Pass	
49				21.12	-5.73	13.24	<=34.77	Pass		
25			0	20.63	-5.73	12.75	<=34.77	Pass		
			13	20.66	-5.73	12.78	<=34.77	Pass		
			25	20.41	-5.73	12.53	<=34.77	Pass		
50			0	20.61	-5.73	12.73	<=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	13.247	0.0189	-2.5 to 2.5	Pass
					3.85	3.419	0.0049	-2.5 to 2.5	Pass
					4.43	-4.563	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-5.336	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-2.146	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	15.979	0.0228	-2.5 to 2.5	Pass
				0	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				10	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				30	3.85	5.136	0.0073	-2.5 to 2.5	Pass
				40	3.85	-2.389	-0.0034	-2.5 to 2.5	Pass
	50	3.85	12.717	0.0182	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	5.364	0.0076	-2.5 to 2.5	Pass
					3.85	3.104	0.0044	-2.5 to 2.5	Pass
					4.43	5.336	0.0075	-2.5 to 2.5	Pass
				-30	3.85	12.960	0.0183	-2.5 to 2.5	Pass
				-20	3.85	-5.064	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				10	3.85	9.413	0.0133	-2.5 to 2.5	Pass
				30	3.85	5.064	0.0072	-2.5 to 2.5	Pass
				40	3.85	4.635	0.0066	-2.5 to 2.5	Pass
	50	3.85	8.383	0.0118	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	7.224	0.0101	-2.5 to 2.5	Pass
					3.85	13.447	0.0188	-2.5 to 2.5	Pass
					4.43	-0.930	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	3.991	0.0056	-2.5 to 2.5	Pass
				-20	3.85	1.602	0.0022	-2.5 to 2.5	Pass
				-10	3.85	7.210	0.0101	-2.5 to 2.5	Pass
				0	3.85	3.834	0.0054	-2.5 to 2.5	Pass
				10	3.85	3.476	0.0049	-2.5 to 2.5	Pass
30				3.85	8.268	0.0116	-2.5 to 2.5	Pass	
40				3.85	1.259	0.0018	-2.5 to 2.5	Pass	
50	3.85	-42.787	-0.0598	-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-2.604	-0.0037	-2.5 to 2.5	Pass
					3.85	7.067	0.0101	-2.5 to 2.5	Pass
					4.43	-23.775	-0.0340	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	9.098	0.0130	-2.5 to 2.5	Pass
				-10	3.85	-8.168	-0.0117	-2.5 to 2.5	Pass
				0	3.85	8.554	0.0122	-2.5 to 2.5	Pass
				10	3.85	3.762	0.0054	-2.5 to 2.5	Pass
				30	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				40	3.85	3.004	0.0043	-2.5 to 2.5	Pass
	50	3.85	1.001	0.0014	-2.5 to 2.5	Pass			
	707.5	6	0	20	3.27	2.031	0.0029	-2.5 to 2.5	Pass

					3.85	3.190	0.0045	-2.5 to 2.5	Pass	
					4.43	4.878	0.0069	-2.5 to 2.5	Pass	
				-30	3.85	3.905	0.0055	-2.5 to 2.5	Pass	
				-20	3.85	-8.225	-0.0116	-2.5 to 2.5	Pass	
				-10	3.85	3.848	0.0054	-2.5 to 2.5	Pass	
				0	3.85	1.044	0.0015	-2.5 to 2.5	Pass	
				10	3.85	7.381	0.0104	-2.5 to 2.5	Pass	
				30	3.85	6.466	0.0091	-2.5 to 2.5	Pass	
				40	3.85	-6.680	-0.0094	-2.5 to 2.5	Pass	
	50	3.85	7.610	0.0108	-2.5 to 2.5	Pass				
	715.3	6	0	20		3.27	2.575	0.0036	-2.5 to 2.5	Pass
						3.85	2.203	0.0031	-2.5 to 2.5	Pass
						4.43	0.815	0.0011	-2.5 to 2.5	Pass
				-30	3.85	3.977	0.0056	-2.5 to 2.5	Pass	
				-20	3.85	0.486	0.0007	-2.5 to 2.5	Pass	
				-10	3.85	3.505	0.0049	-2.5 to 2.5	Pass	
				0	3.85	0.644	0.0009	-2.5 to 2.5	Pass	
				10	3.85	2.861	0.0040	-2.5 to 2.5	Pass	
30				3.85	0.629	0.0009	-2.5 to 2.5	Pass		
40	3.85	2.103	0.0029	-2.5 to 2.5	Pass					
50	3.85	5.164	0.0072	-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	10.672	0.0152	-2.5 to 2.5	Pass
						3.85	5.121	0.0073	-2.5 to 2.5	Pass
						4.43	-2.160	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	0.014	0.0000	-2.5 to 2.5	Pass	
				-20	3.85	23.074	0.0329	-2.5 to 2.5	Pass	
				-10	3.85	15.235	0.0217	-2.5 to 2.5	Pass	
				0	3.85	14.777	0.0211	-2.5 to 2.5	Pass	
				10	3.85	8.283	0.0118	-2.5 to 2.5	Pass	
				30	3.85	10.729	0.0153	-2.5 to 2.5	Pass	
	40	3.85	4.005	0.0057	-2.5 to 2.5	Pass				
	50	3.85	5.078	0.0072	-2.5 to 2.5	Pass				
	707.5	15	0	20		3.27	12.703	0.0180	-2.5 to 2.5	Pass
						3.85	0.587	0.0008	-2.5 to 2.5	Pass
						4.43	4.077	0.0058	-2.5 to 2.5	Pass
				-30	3.85	-8.311	-0.0117	-2.5 to 2.5	Pass	
				-20	3.85	1.588	0.0022	-2.5 to 2.5	Pass	
				-10	3.85	8.497	0.0120	-2.5 to 2.5	Pass	
				0	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass	
				10	3.85	-2.861	-0.0040	-2.5 to 2.5	Pass	
				30	3.85	1.473	0.0021	-2.5 to 2.5	Pass	
	40	3.85	3.076	0.0043	-2.5 to 2.5	Pass				
	50	3.85	0.615	0.0009	-2.5 to 2.5	Pass				
	714.5	15	0	20		3.27	-6.537	-0.0091	-2.5 to 2.5	Pass
						3.85	13.118	0.0184	-2.5 to 2.5	Pass
						4.43	4.864	0.0068	-2.5 to 2.5	Pass
				-30	3.85	10.943	0.0153	-2.5 to 2.5	Pass	
				-20	3.85	3.791	0.0053	-2.5 to 2.5	Pass	

				-10	3.85	7.396	0.0104	-2.5 to 2.5	Pass
				0	3.85	13.332	0.0187	-2.5 to 2.5	Pass
				10	3.85	5.193	0.0073	-2.5 to 2.5	Pass
				30	3.85	6.666	0.0093	-2.5 to 2.5	Pass
				40	3.85	2.189	0.0031	-2.5 to 2.5	Pass
				50	3.85	8.154	0.0114	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	7.839	0.0112	-2.5 to 2.5	Pass
					3.85	3.934	0.0056	-2.5 to 2.5	Pass
					4.43	1.974	0.0028	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	7.167	0.0102	-2.5 to 2.5	Pass
				-10	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
				0	3.85	3.948	0.0056	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				30	3.85	2.375	0.0034	-2.5 to 2.5	Pass
				40	3.85	7.925	0.0113	-2.5 to 2.5	Pass
	50	3.85	8.512	0.0122	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	4.978	0.0070	-2.5 to 2.5	Pass
					3.85	-1.016	-0.0014	-2.5 to 2.5	Pass
					4.43	2.074	0.0029	-2.5 to 2.5	Pass
				-30	3.85	3.676	0.0052	-2.5 to 2.5	Pass
				-20	3.85	0.772	0.0011	-2.5 to 2.5	Pass
				-10	3.85	6.866	0.0097	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0016	-2.5 to 2.5	Pass
				10	3.85	4.435	0.0063	-2.5 to 2.5	Pass
				30	3.85	0.973	0.0014	-2.5 to 2.5	Pass
				40	3.85	3.433	0.0049	-2.5 to 2.5	Pass
	50	3.85	1.960	0.0028	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	0.887	0.0012	-2.5 to 2.5	Pass
					3.85	-2.117	-0.0030	-2.5 to 2.5	Pass
					4.43	1.602	0.0022	-2.5 to 2.5	Pass
				-30	3.85	-4.864	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				-10	3.85	4.735	0.0066	-2.5 to 2.5	Pass
				0	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				10	3.85	3.190	0.0045	-2.5 to 2.5	Pass
30				3.85	3.176	0.0044	-2.5 to 2.5	Pass	
40				3.85	1.388	0.0019	-2.5 to 2.5	Pass	
50	3.85	2.131	0.0030	-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	-7.467	-0.0106	-2.5 to 2.5	Pass
					3.85	3.905	0.0056	-2.5 to 2.5	Pass
					4.43	1.030	0.0015	-2.5 to 2.5	Pass
				-30	3.85	10.886	0.0155	-2.5 to 2.5	Pass
				-20	3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-3.204	-0.0046	-2.5 to 2.5	Pass
				0	3.85	4.506	0.0064	-2.5 to 2.5	Pass

	707.5	25	0	10	3.85	2.904	0.0041	-2.5 to 2.5	Pass
				30	3.85	4.606	0.0066	-2.5 to 2.5	Pass
				40	3.85	1.960	0.0028	-2.5 to 2.5	Pass
				50	3.85	4.320	0.0062	-2.5 to 2.5	Pass
				20	3.27	0.401	0.0006	-2.5 to 2.5	Pass
					3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
					4.43	2.732	0.0039	-2.5 to 2.5	Pass
				-30	3.85	2.875	0.0041	-2.5 to 2.5	Pass
				-20	3.85	1.945	0.0027	-2.5 to 2.5	Pass
				-10	3.85	4.721	0.0067	-2.5 to 2.5	Pass
				0	3.85	1.531	0.0022	-2.5 to 2.5	Pass
				10	3.85	3.304	0.0047	-2.5 to 2.5	Pass
	30	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass			
	40	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass			
	50	3.85	2.904	0.0041	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-5.279	-0.0074	-2.5 to 2.5	Pass
					3.85	4.077	0.0057	-2.5 to 2.5	Pass
					4.43	5.178	0.0073	-2.5 to 2.5	Pass
				-30	3.85	4.935	0.0069	-2.5 to 2.5	Pass
				-20	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				-10	3.85	3.662	0.0051	-2.5 to 2.5	Pass
				0	3.85	2.460	0.0034	-2.5 to 2.5	Pass
				10	3.85	6.566	0.0092	-2.5 to 2.5	Pass
				30	3.85	1.245	0.0017	-2.5 to 2.5	Pass
40				3.85	2.861	0.0040	-2.5 to 2.5	Pass	
50				3.85	2.632	0.0037	-2.5 to 2.5	Pass	
16QAM				701.5	25	0	20	3.27	-0.772
	3.85	0.901	0.0013					-2.5 to 2.5	Pass
	4.43	0.815	0.0012					-2.5 to 2.5	Pass
	-30	3.85	0.615				0.0009	-2.5 to 2.5	Pass
	-20	3.85	1.373				0.0020	-2.5 to 2.5	Pass
	-10	3.85	0.114				0.0002	-2.5 to 2.5	Pass
	0	3.85	1.087				0.0015	-2.5 to 2.5	Pass
	10	3.85	1.330				0.0019	-2.5 to 2.5	Pass
	30	3.85	2.232				0.0032	-2.5 to 2.5	Pass
	40	3.85	5.121				0.0073	-2.5 to 2.5	Pass
	50	3.85	0.000				0.0000	-2.5 to 2.5	Pass
	707.5	25	0				20	3.27	1.059
				3.85	-0.916	-0.0013		-2.5 to 2.5	Pass
				4.43	-1.774	-0.0025		-2.5 to 2.5	Pass
				-30	3.85	3.219	0.0045	-2.5 to 2.5	Pass
				-20	3.85	0.844	0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.787	-0.0011	-2.5 to 2.5	Pass
				10	3.85	2.332	0.0033	-2.5 to 2.5	Pass
				30	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				40	3.85	1.631	0.0023	-2.5 to 2.5	Pass
				50	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				713.5	25	0	20	3.27	0.272
	3.85	-1.159	-0.0016					-2.5 to 2.5	Pass
4.43	-1.760	-0.0025	-2.5 to 2.5					Pass	
-30	3.85	-2.403	-0.0034				-2.5 to 2.5	Pass	
-20	3.85	1.345	0.0019				-2.5 to 2.5	Pass	
-10	3.85	-3.648	-0.0051				-2.5 to 2.5	Pass	
0	3.85	2.675	0.0037				-2.5 to 2.5	Pass	
10	3.85	-2.403	-0.0034				-2.5 to 2.5	Pass	



				30	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				40	3.85	3.290	0.0046	-2.5 to 2.5	Pass
				50	3.85	-1.903	-0.0027	-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	-10.786	-0.0153	-2.5 to 2.5	Pass
					3.85	1.187	0.0017	-2.5 to 2.5	Pass
					4.43	4.220	0.0060	-2.5 to 2.5	Pass
				-30	3.85	6.008	0.0085	-2.5 to 2.5	Pass
				-20	3.85	2.518	0.0036	-2.5 to 2.5	Pass
				-10	3.85	3.090	0.0044	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.030	0.0015	-2.5 to 2.5	Pass
				30	3.85	1.917	0.0027	-2.5 to 2.5	Pass
				40	3.85	4.163	0.0059	-2.5 to 2.5	Pass
	50	3.85	2.089	0.0030	-2.5 to 2.5	Pass			
	707.5	50	0	20	3.27	-6.995	-0.0099	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
					4.43	0.744	0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-1.302	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
	50	3.85	0.057	0.0001	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-3.319	-0.0047	-2.5 to 2.5	Pass
					3.85	3.204	0.0045	-2.5 to 2.5	Pass
					4.43	3.777	0.0053	-2.5 to 2.5	Pass
				-30	3.85	2.289	0.0032	-2.5 to 2.5	Pass
				-20	3.85	2.689	0.0038	-2.5 to 2.5	Pass
				-10	3.85	1.330	0.0019	-2.5 to 2.5	Pass
				0	3.85	2.174	0.0031	-2.5 to 2.5	Pass
				10	3.85	1.273	0.0018	-2.5 to 2.5	Pass
30				3.85	2.260	0.0032	-2.5 to 2.5	Pass	
40				3.85	1.802	0.0025	-2.5 to 2.5	Pass	
50	3.85	2.003	0.0028	-2.5 to 2.5	Pass				
16QAM	704	50	0	20	3.27	0.415	0.0006	-2.5 to 2.5	Pass
					3.85	2.317	0.0033	-2.5 to 2.5	Pass
					4.43	0.973	0.0014	-2.5 to 2.5	Pass
				-30	3.85	0.787	0.0011	-2.5 to 2.5	Pass
				-20	3.85	1.731	0.0025	-2.5 to 2.5	Pass
				-10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				10	3.85	-2.174	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
40	3.85	-1.945	-0.0028	-2.5 to 2.5	Pass				

	707.5	50	0	50	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				20	3.27	-0.443	-0.0006	-2.5 to 2.5	Pass
					3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
					4.43	-3.819	-0.0054	-2.5 to 2.5	Pass
					-30	3.85	-0.243	-0.0003	-2.5 to 2.5
				-20	3.85	-1.631	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				0	3.85	0.358	0.0005	-2.5 to 2.5	Pass
				10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
	40	3.85	0.114	0.0002	-2.5 to 2.5	Pass			
	50	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	0.758	0.0011	-2.5 to 2.5	Pass
					3.85	1.917	0.0027	-2.5 to 2.5	Pass
					4.43	-2.475	-0.0035	-2.5 to 2.5	Pass
					-30	3.85	-1.760	-0.0025	-2.5 to 2.5
				-20	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				0	3.85	1.874	0.0026	-2.5 to 2.5	Pass
				10	3.85	0.844	0.0012	-2.5 to 2.5	Pass
30				3.85	0.472	0.0007	-2.5 to 2.5	Pass	
40				3.85	-0.701	-0.0010	-2.5 to 2.5	Pass	
50	3.85	0.401	0.0006	-2.5 to 2.5	Pass				

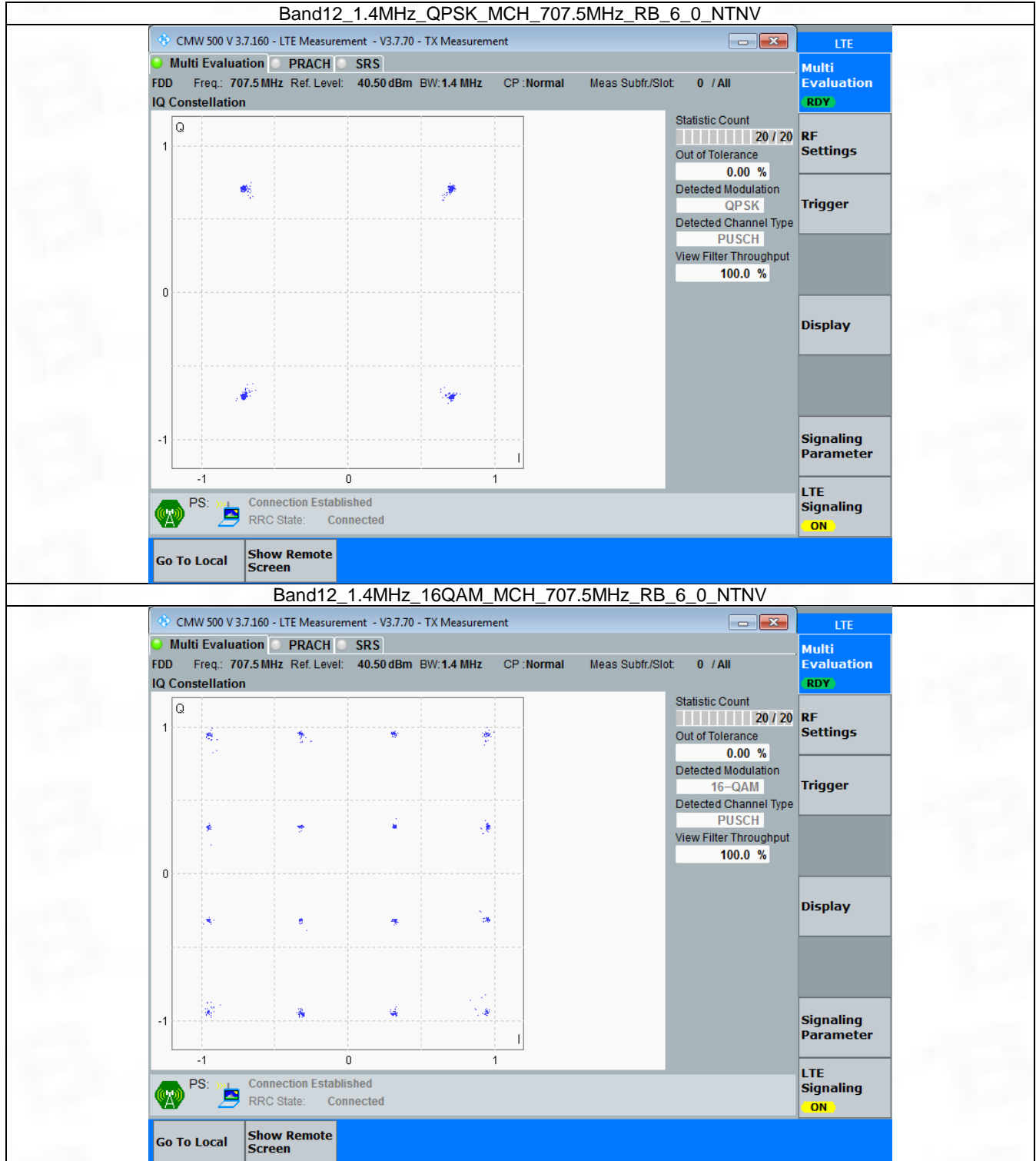
### 3. Modulation Characteristics

#### 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

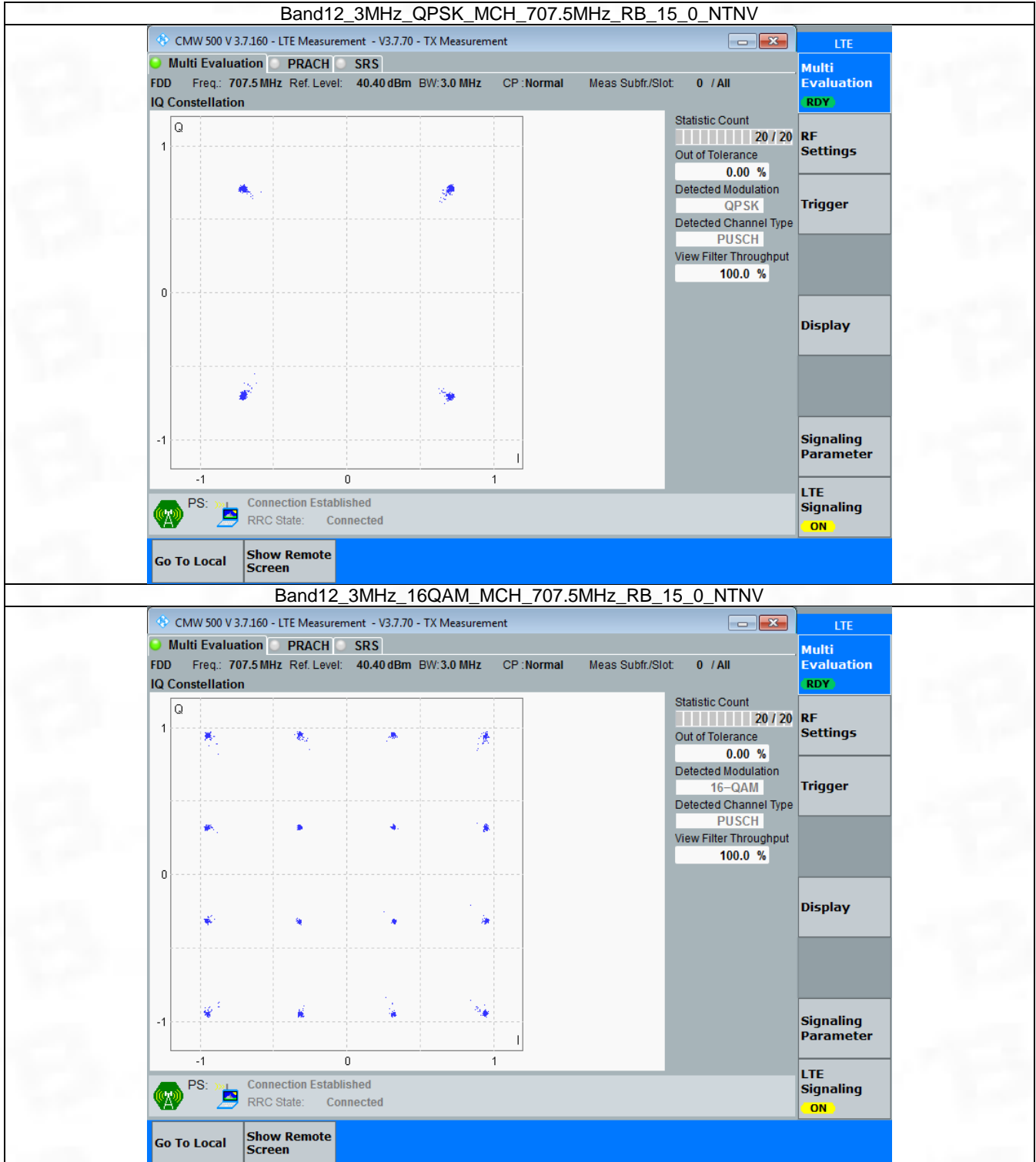


### 3.2 B12\_3MHz

#### 3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
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

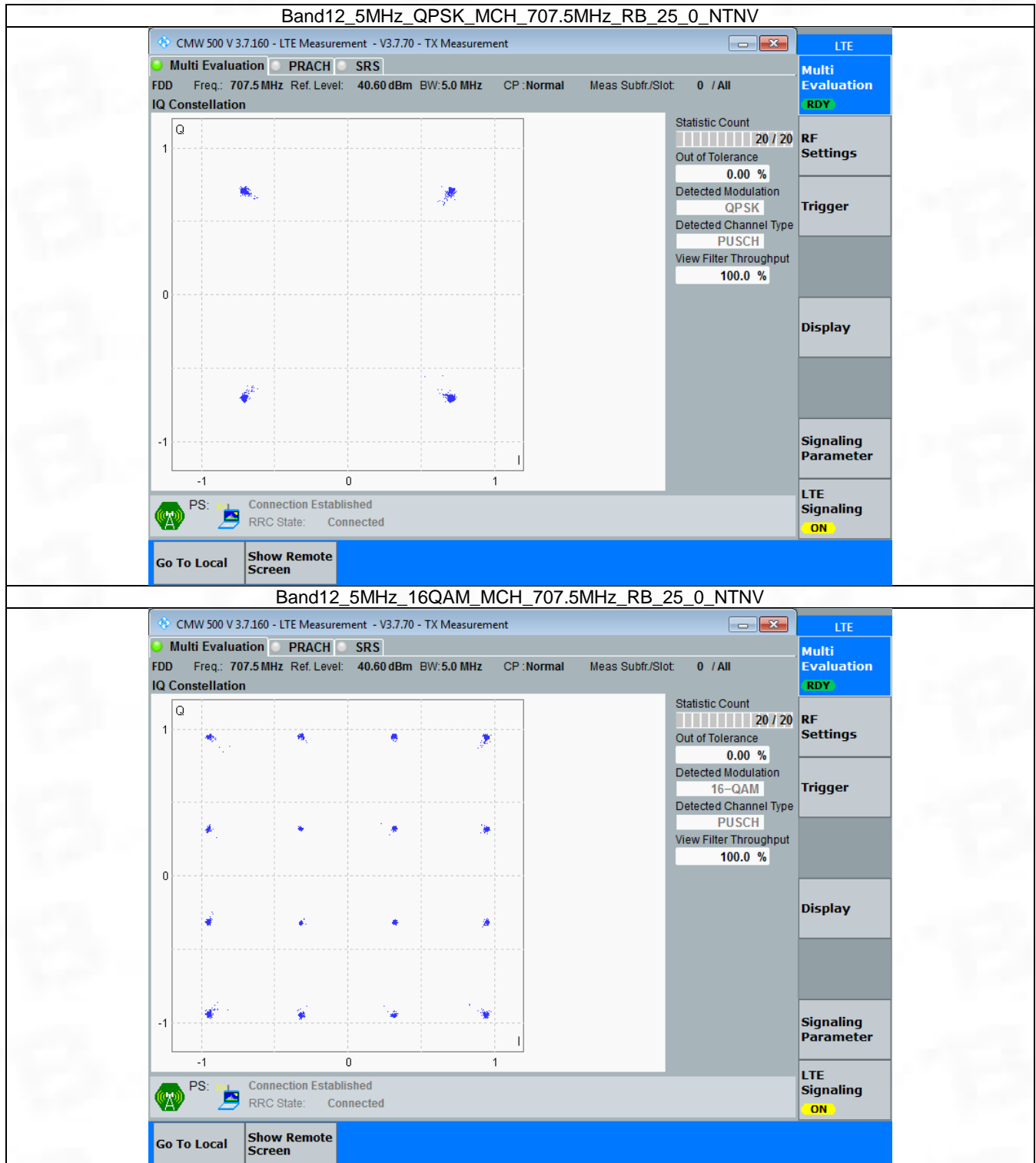


### 3.3 B12\_5MHz

#### 3.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
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



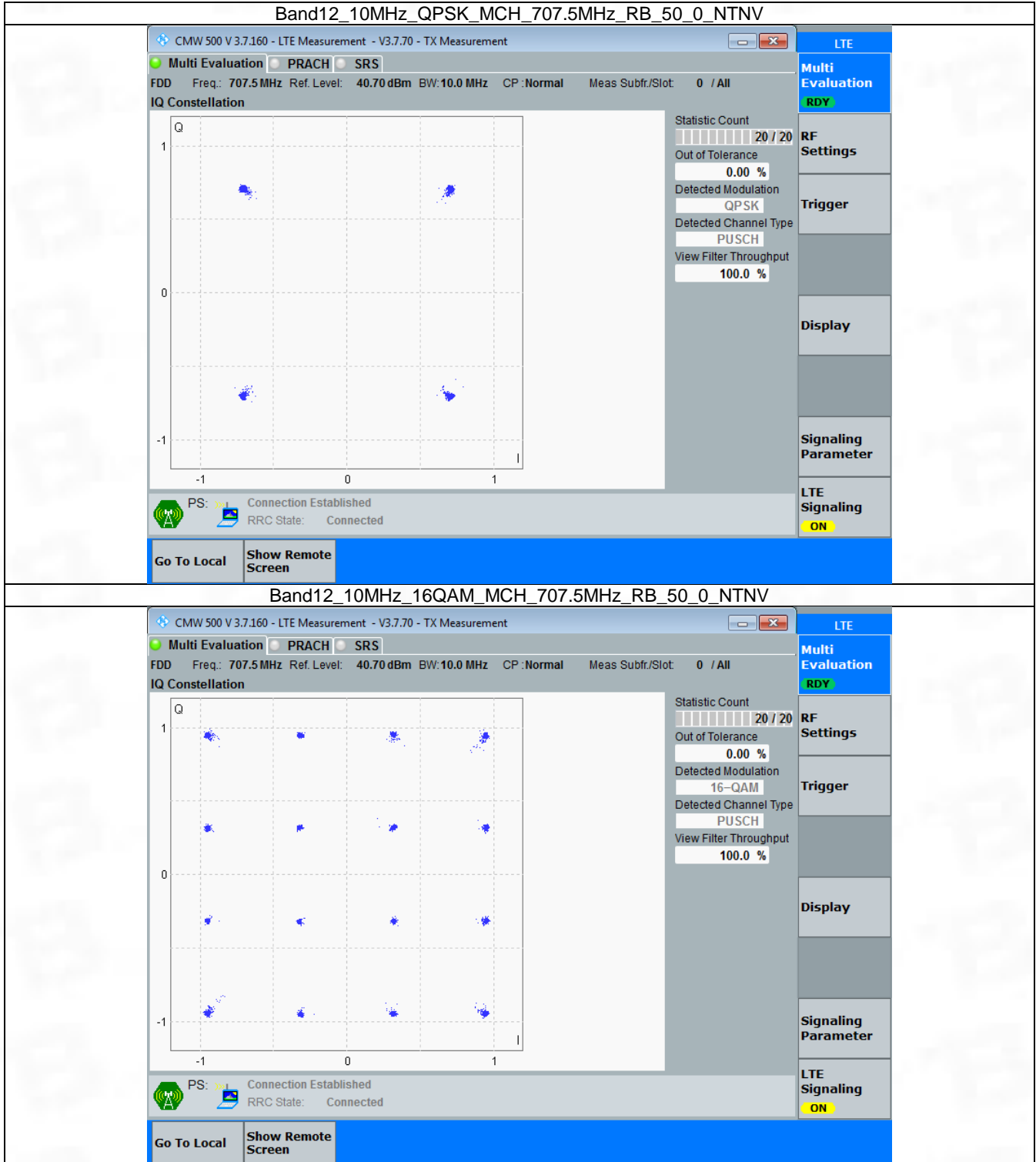
### 3.4 B12\_10MHz

#### 3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
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



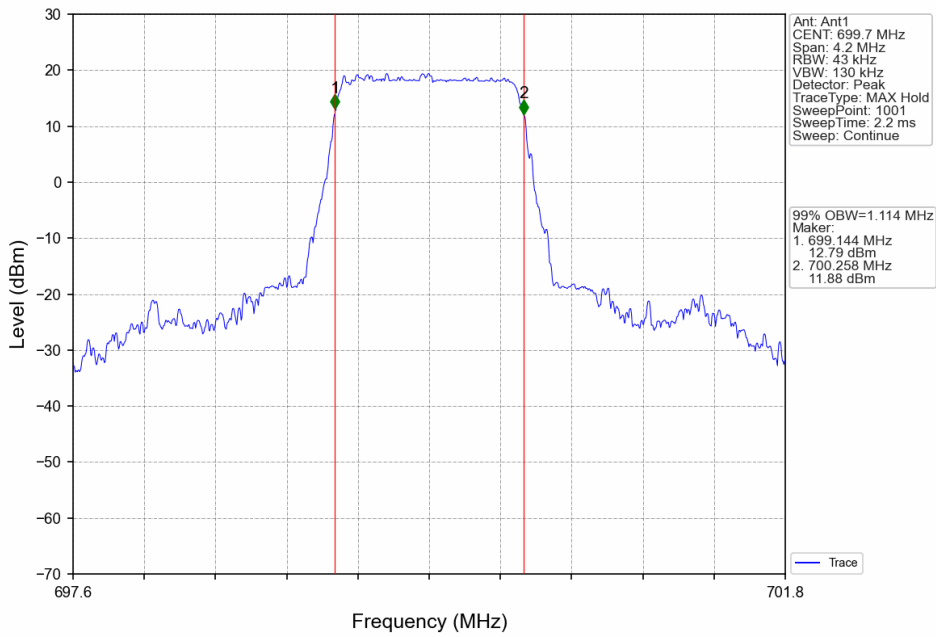
## 4.1 Band12\_OBW

### 4.1.1 Test Result

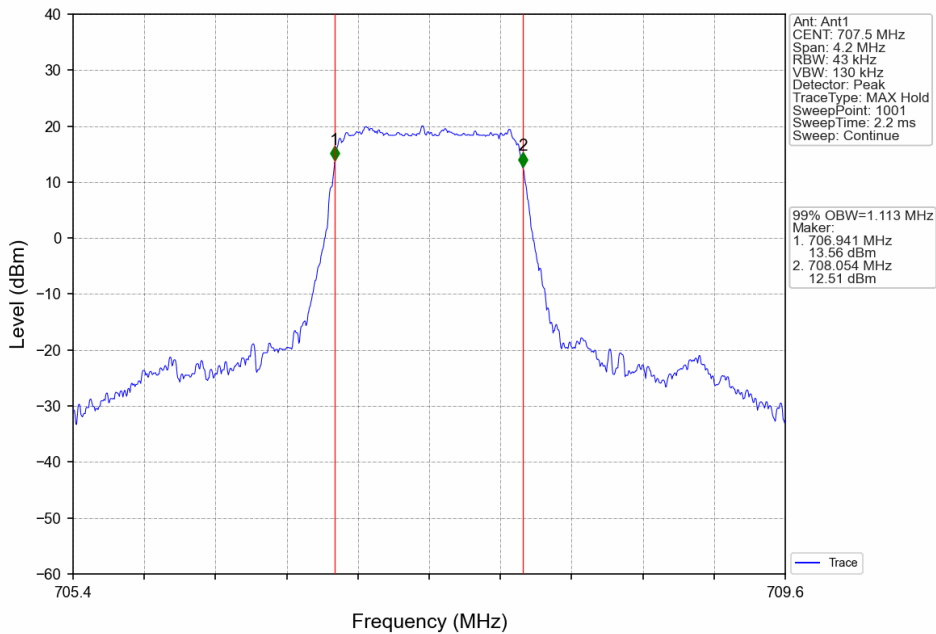
Band: 12 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.114	Pass
		707.5	6	0	1.113	Pass
		715.3	6	0	1.109	Pass
	16QAM	699.7	6	0	1.109	Pass
		707.5	6	0	1.116	Pass
		715.3	6	0	1.114	Pass
3	QPSK	700.5	15	0	2.733	Pass
		707.5	15	0	2.749	Pass
		714.5	15	0	2.739	Pass
	16QAM	700.5	15	0	2.725	Pass
		707.5	15	0	2.729	Pass
		714.5	15	0	2.723	Pass
5	QPSK	701.5	25	0	4.550	Pass
		707.5	25	0	4.543	Pass
		713.5	25	0	4.527	Pass
	16QAM	701.5	25	0	4.525	Pass
		707.5	25	0	4.568	Pass
		713.5	25	0	4.545	Pass
10	QPSK	704	50	0	9.077	Pass
		707.5	50	0	9.041	Pass
		711	50	0	9.052	Pass
	16QAM	704	50	0	9.083	Pass
		707.5	50	0	9.072	Pass
		711	50	0	9.035	Pass

### 4.1.2 Test Graph

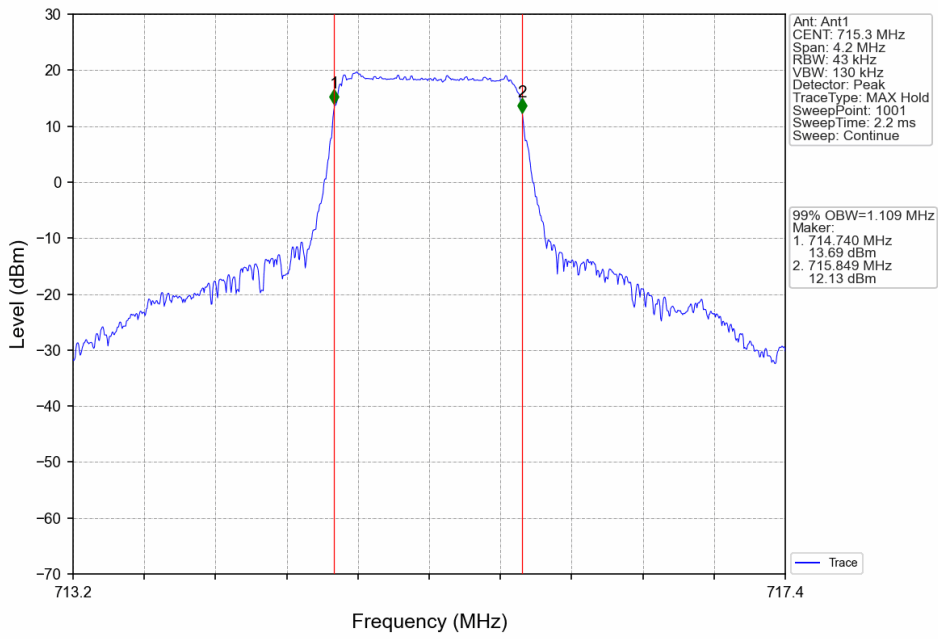
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTV
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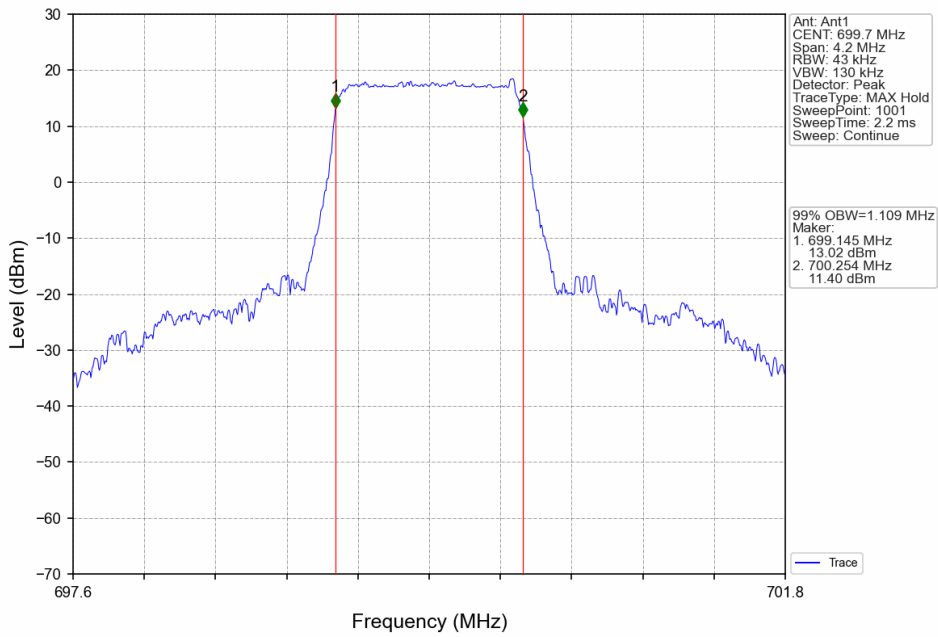
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



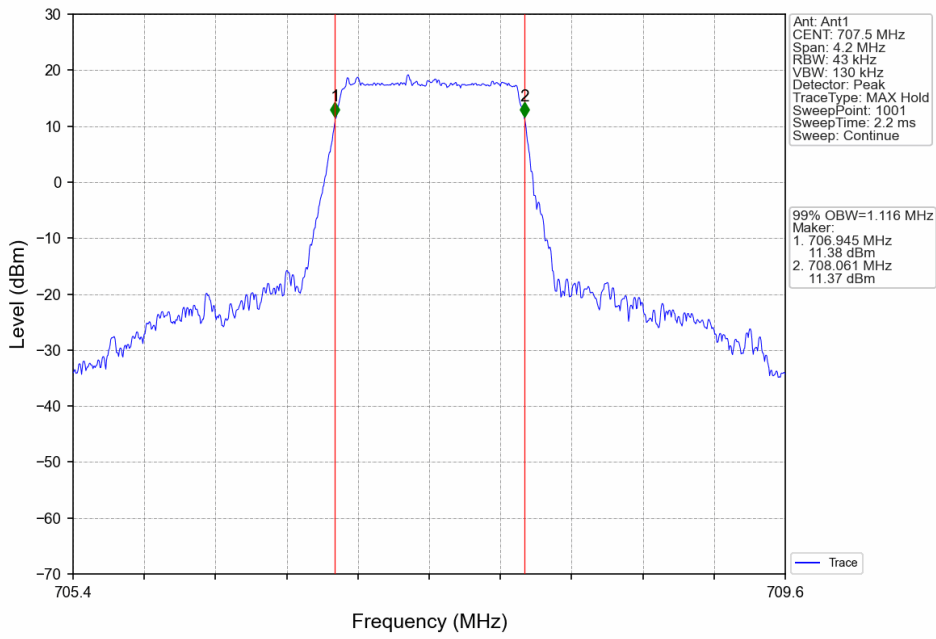
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



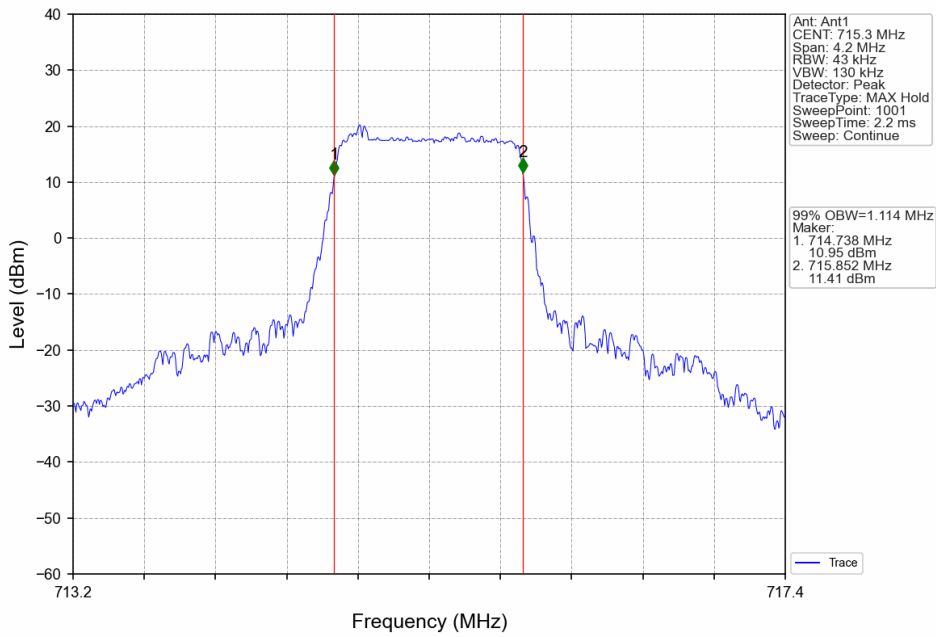
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



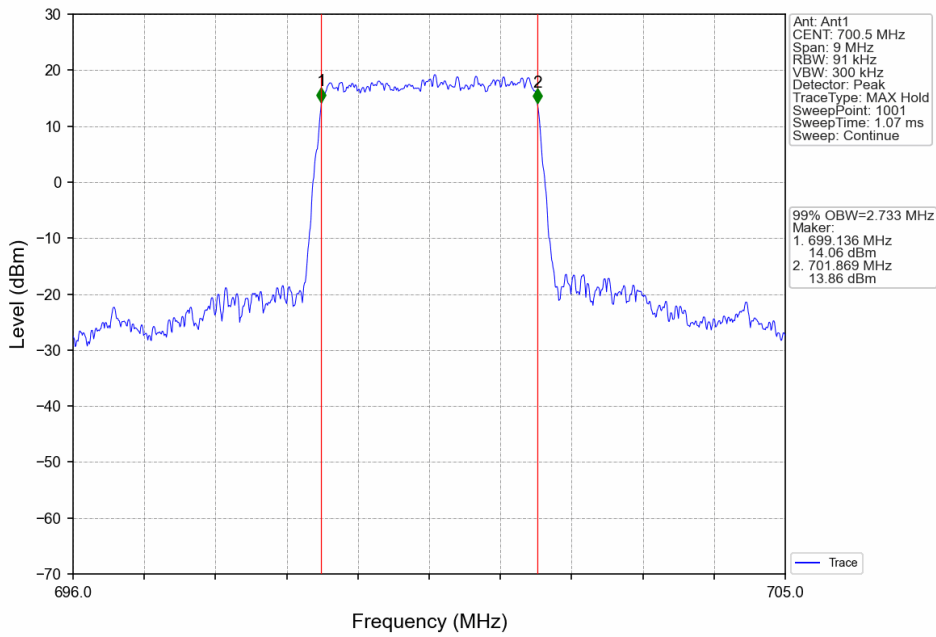
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



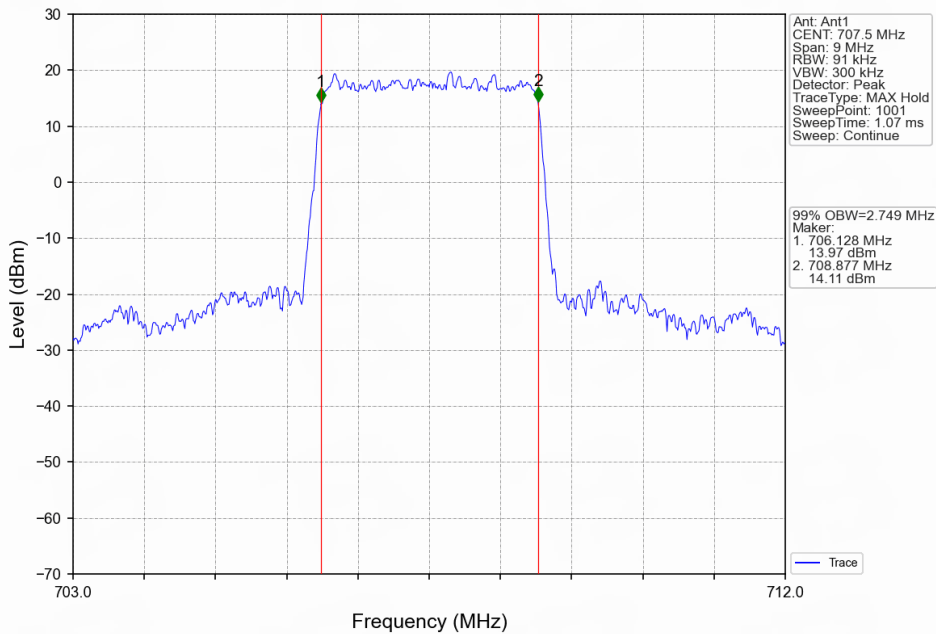
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



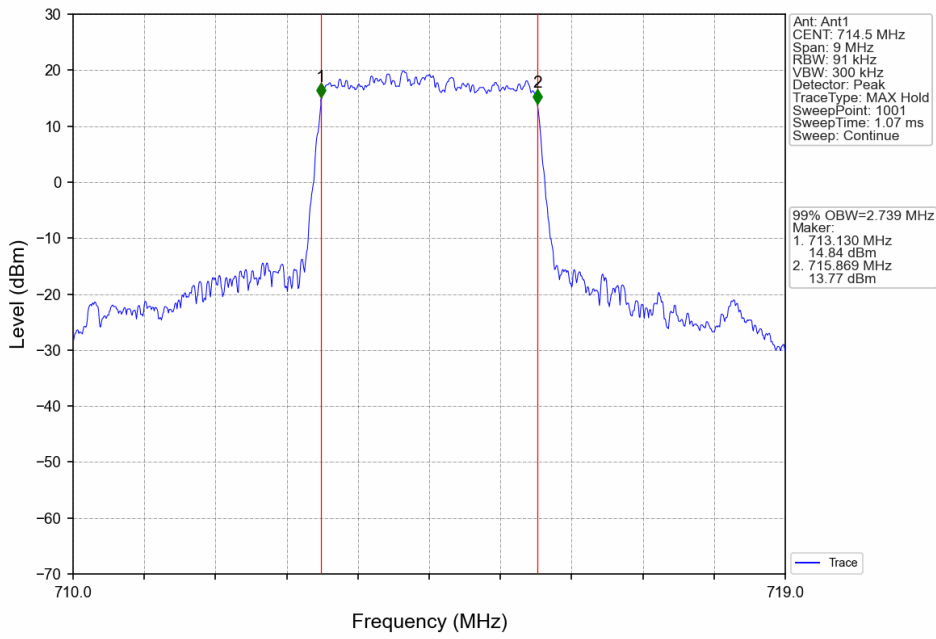
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



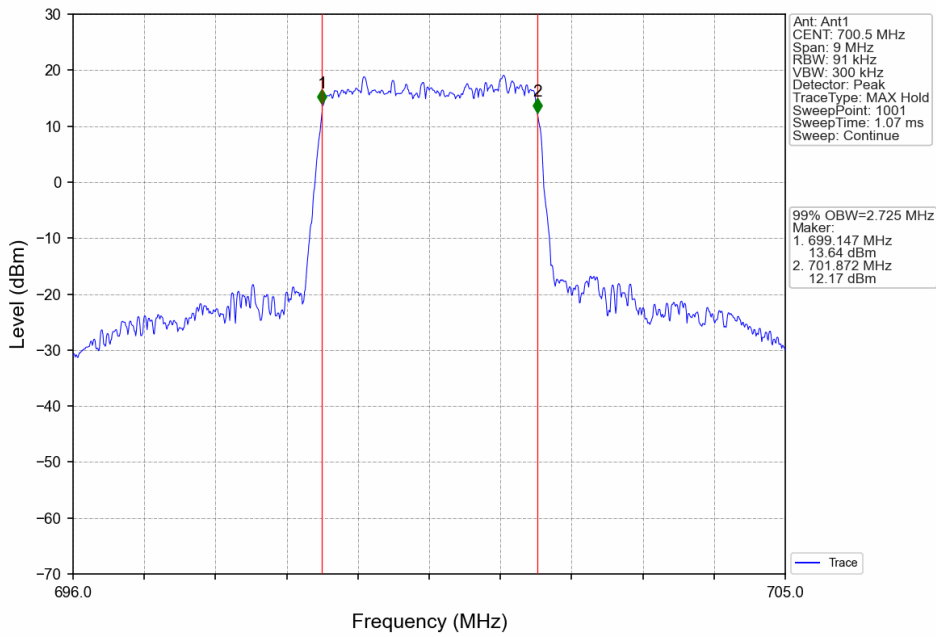
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



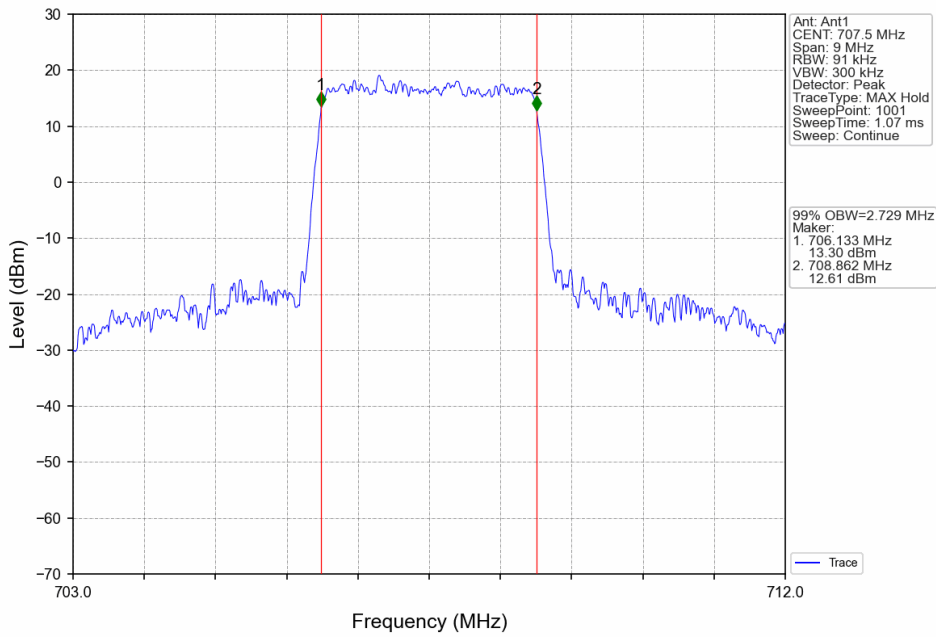
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



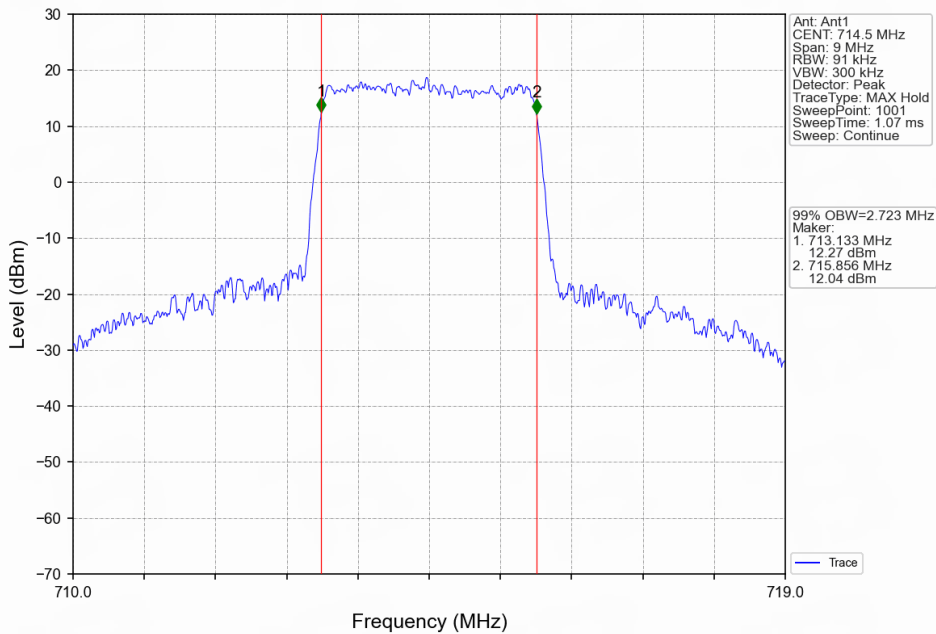
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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

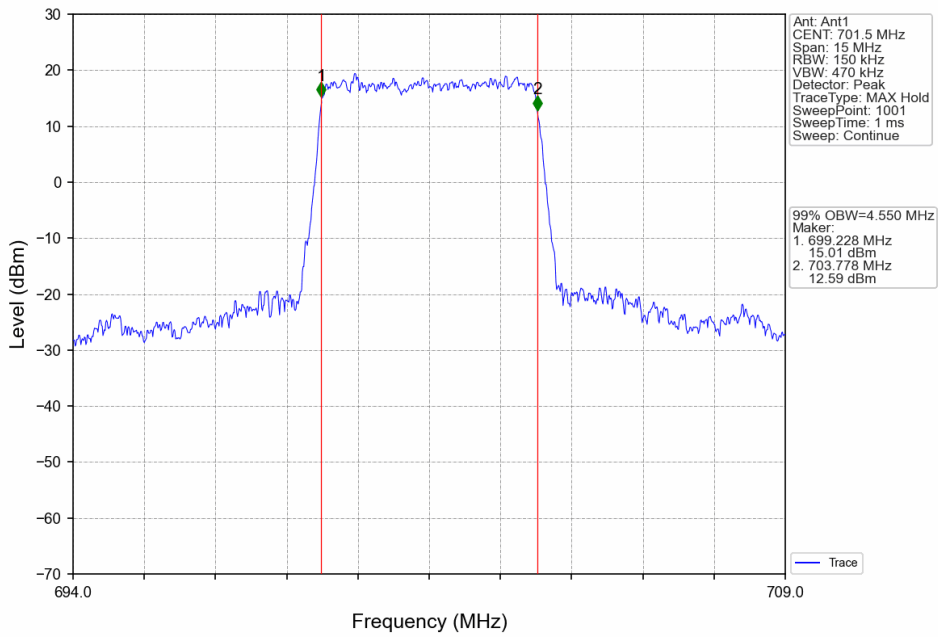


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV

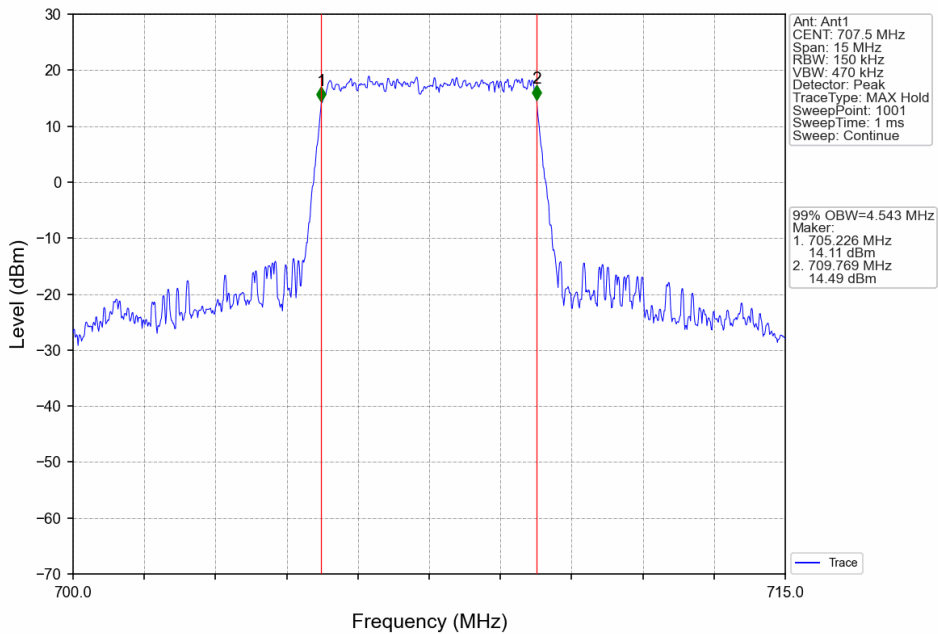


Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV

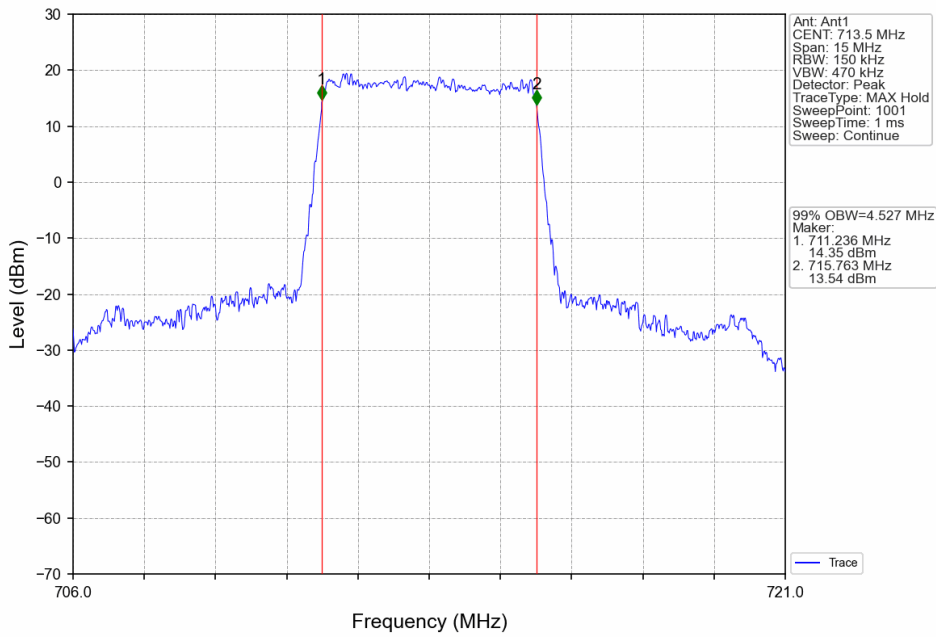




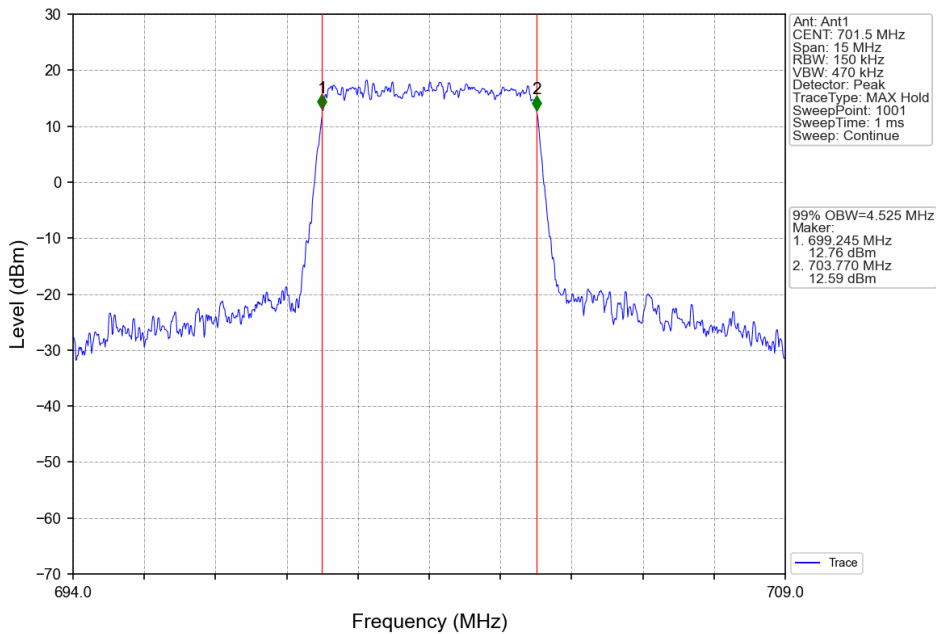
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



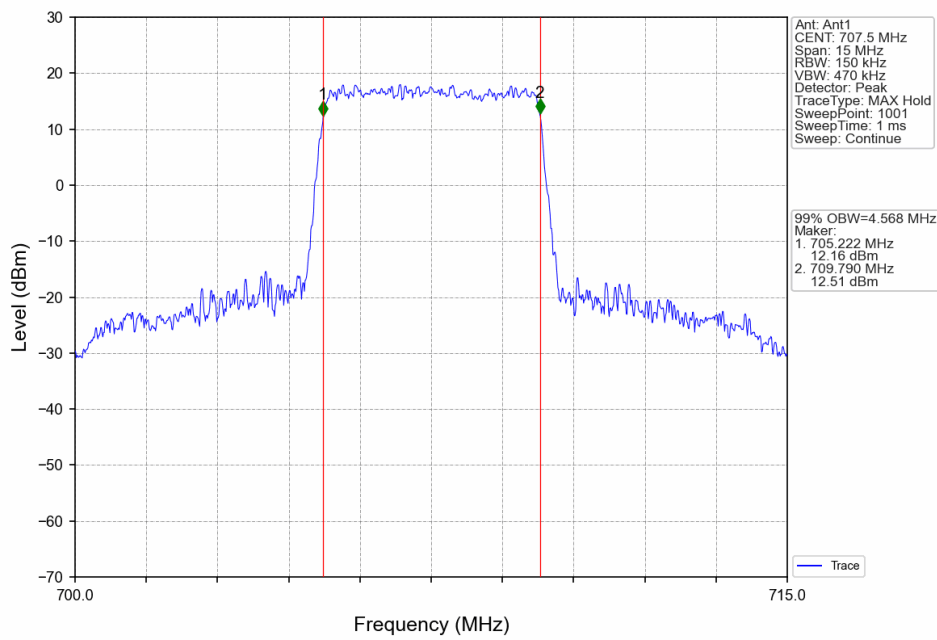
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



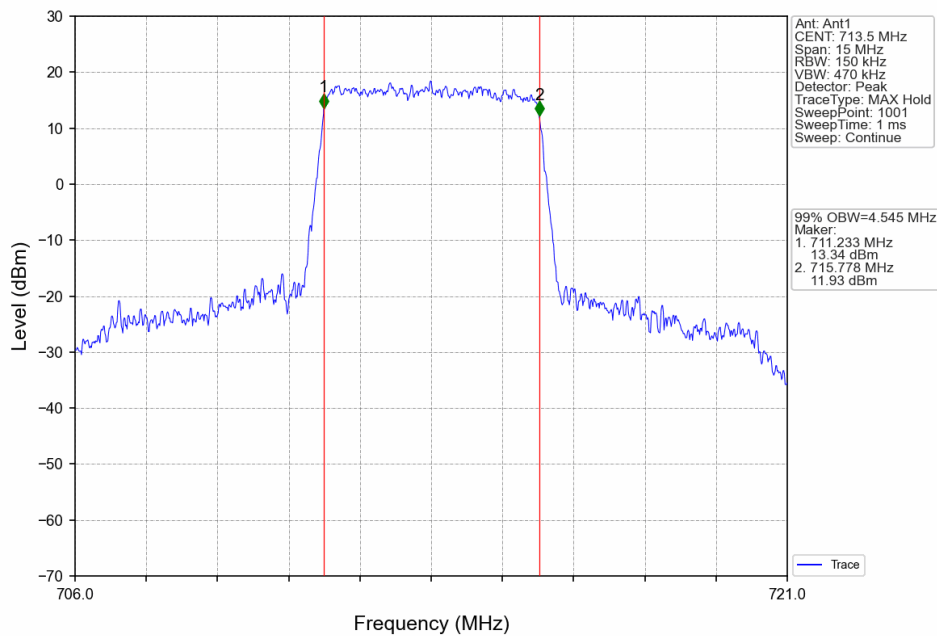
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



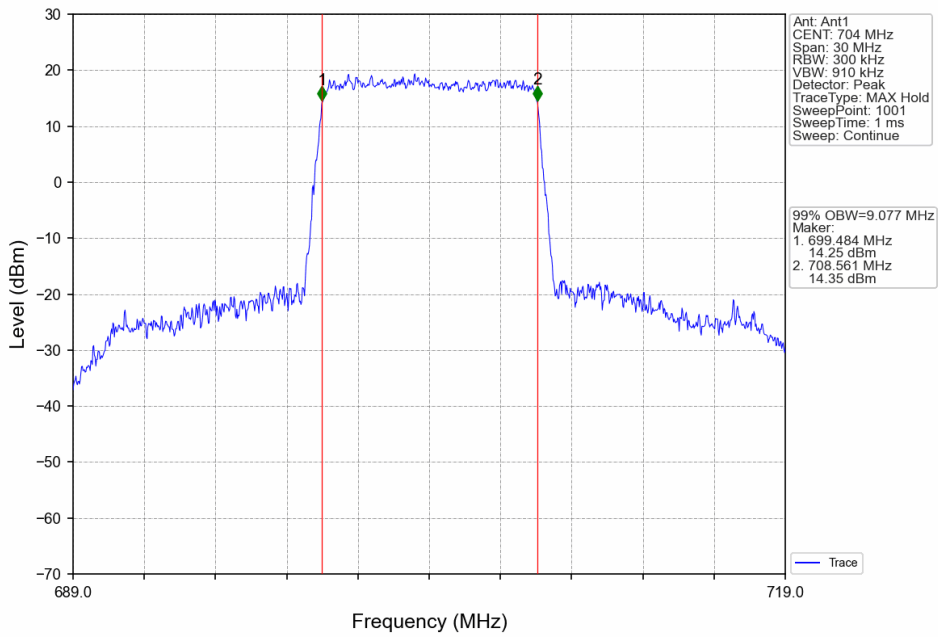
Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



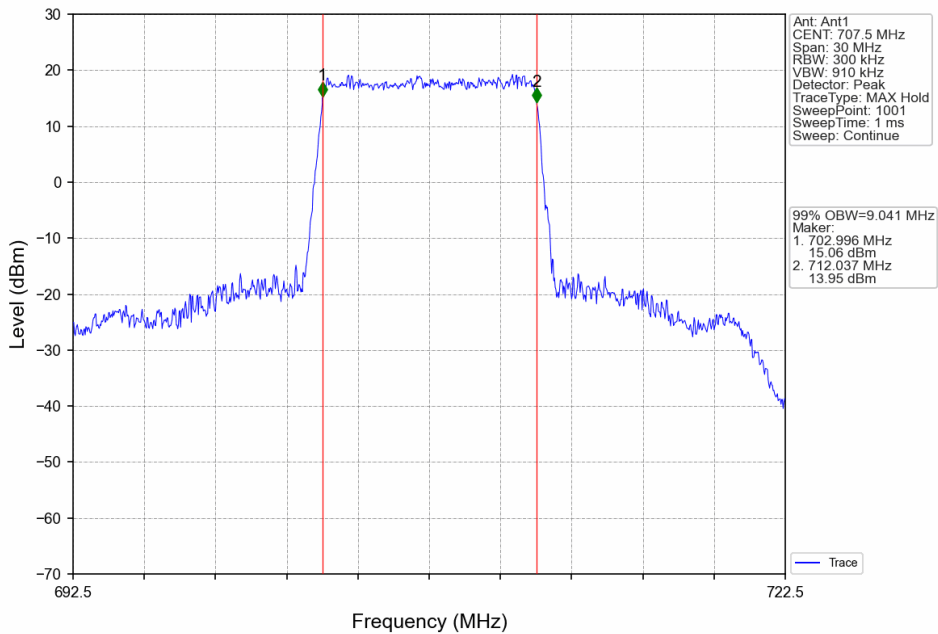
Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



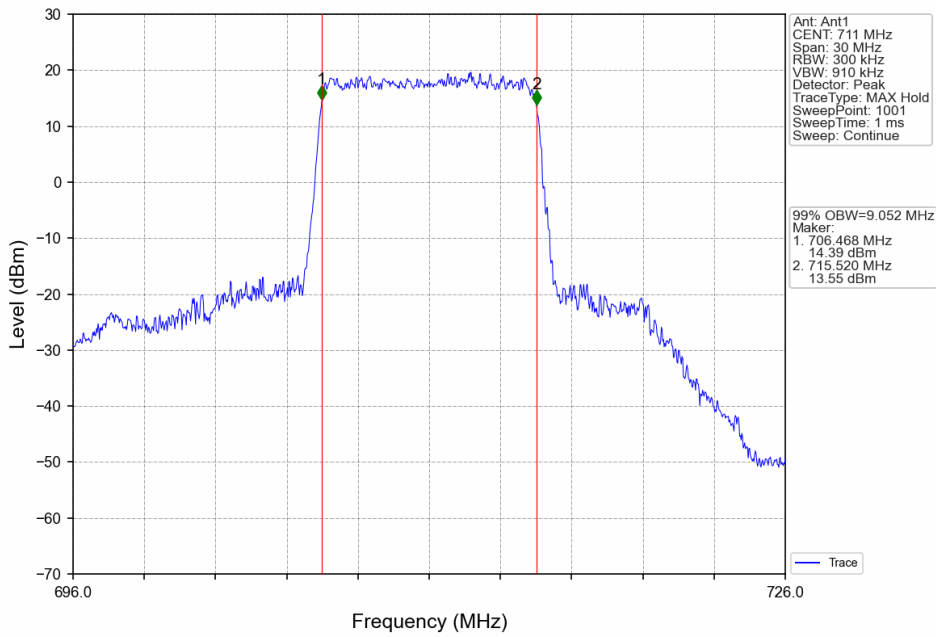
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



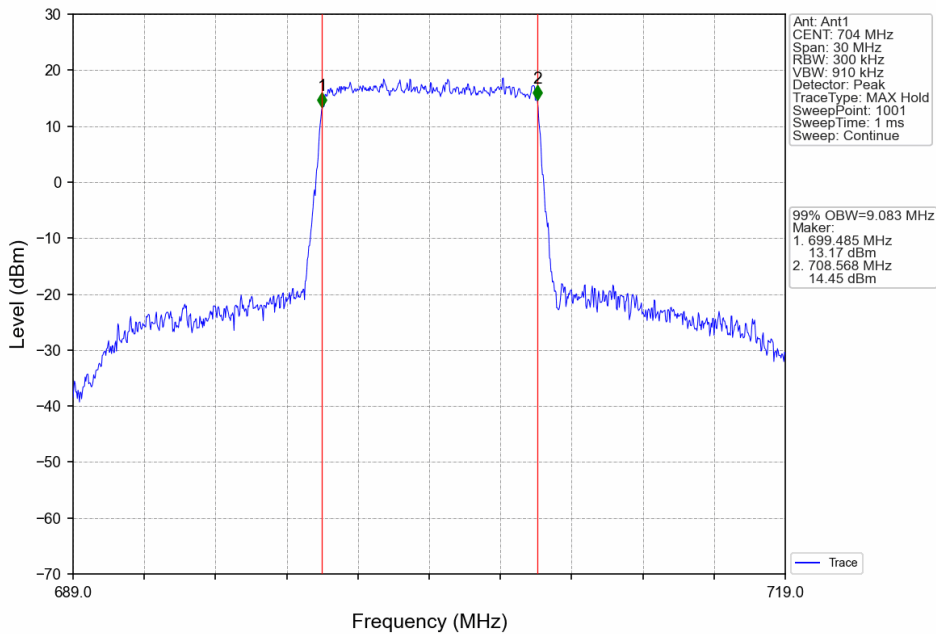
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



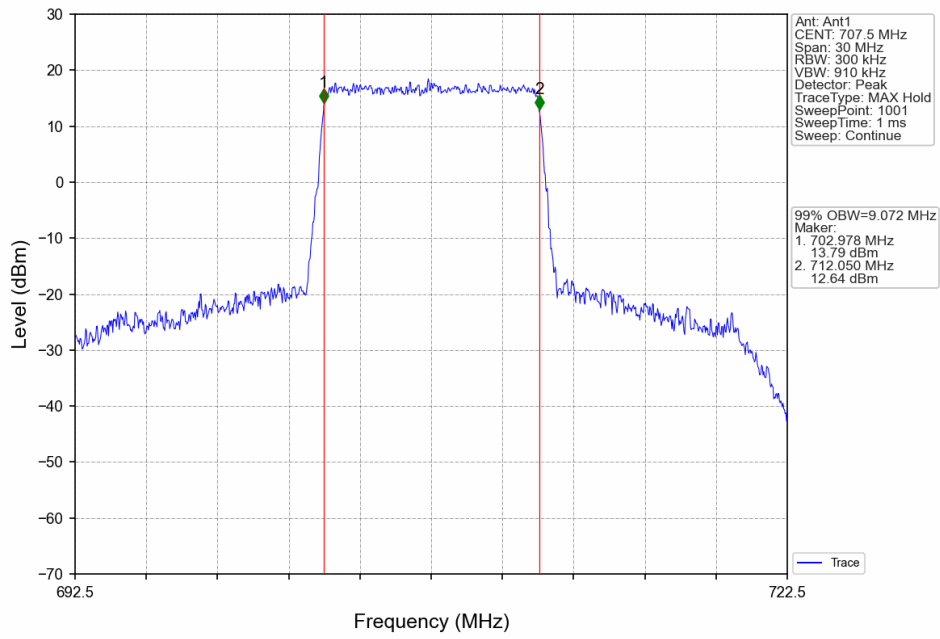
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



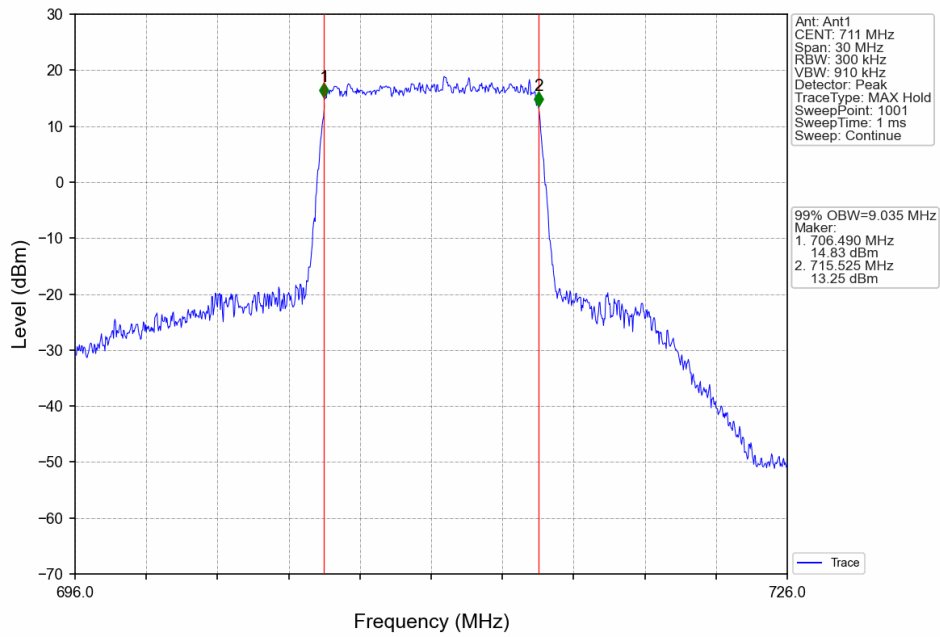
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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

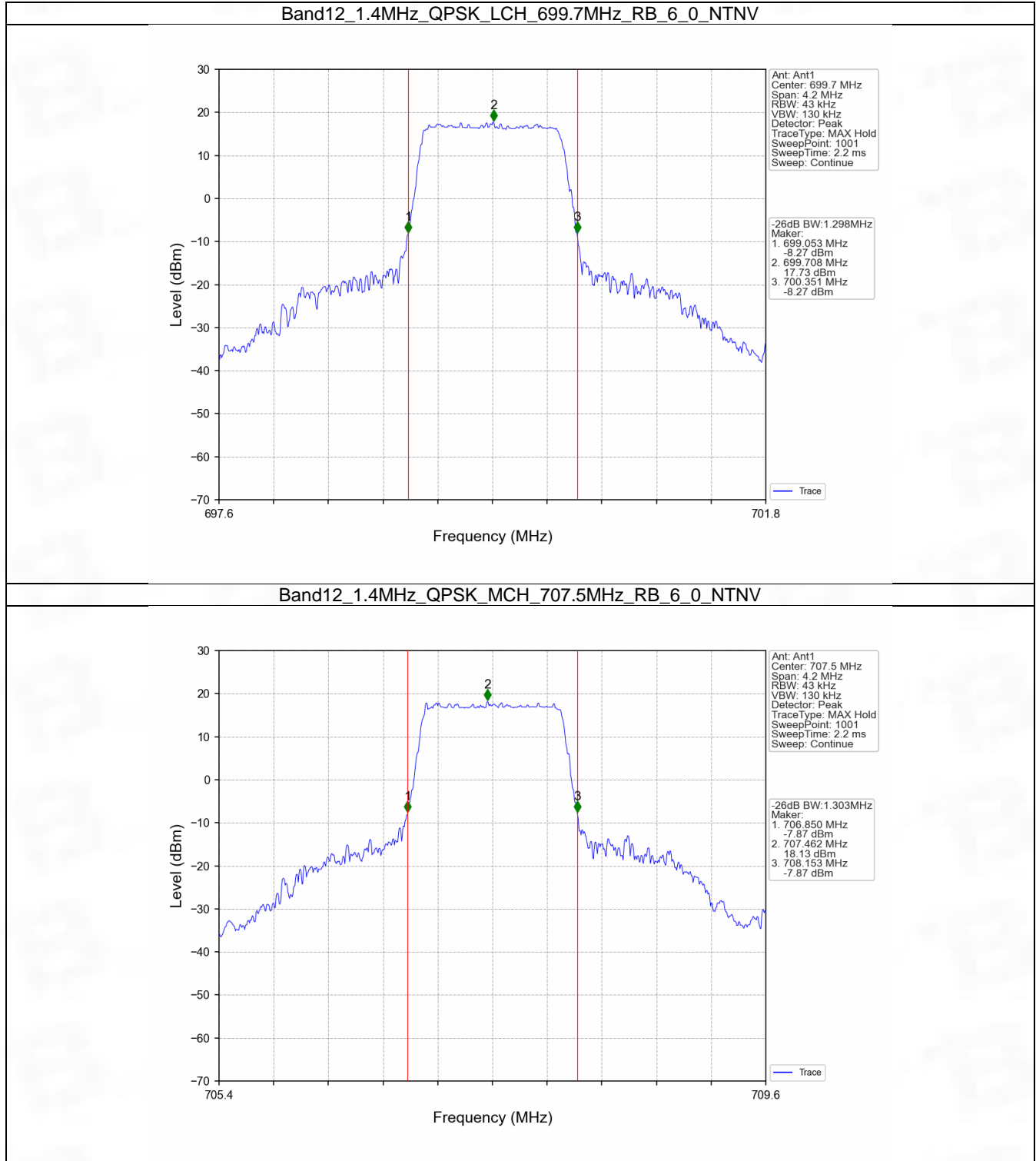


## 4.2 Band12\_XDB

### 4.2.1 Test Result

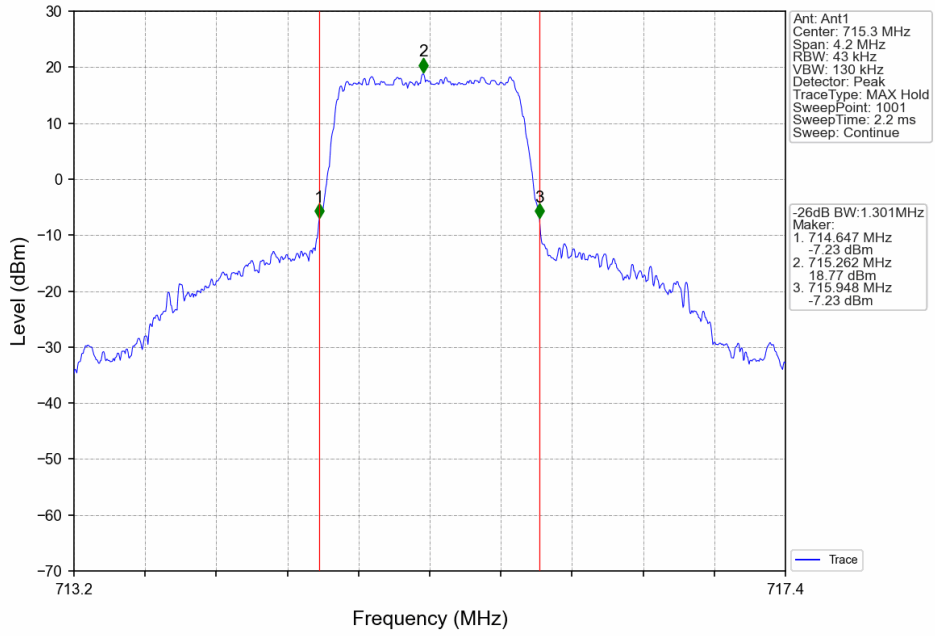
Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.298	Pass
		707.5	6	0	1.303	Pass
		715.3	6	0	1.301	Pass
	16QAM	699.7	6	0	1.279	Pass
		707.5	6	0	1.286	Pass
		715.3	6	0	1.301	Pass
3	QPSK	700.5	15	0	3.025	Pass
		707.5	15	0	3.034	Pass
		714.5	15	0	3.032	Pass
	16QAM	700.5	15	0	3.022	Pass
		707.5	15	0	3.040	Pass
		714.5	15	0	3.062	Pass
5	QPSK	701.5	25	0	5.134	Pass
		707.5	25	0	5.110	Pass
		713.5	25	0	5.156	Pass
	16QAM	701.5	25	0	5.167	Pass
		707.5	25	0	5.144	Pass
		713.5	25	0	5.186	Pass
10	QPSK	704	50	0	10.234	Pass
		707.5	50	0	10.094	Pass
		711	50	0	10.136	Pass
	16QAM	704	50	0	10.107	Pass
		707.5	50	0	10.022	Pass
		711	50	0	10.102	Pass

## 4.2.2 Test Graph

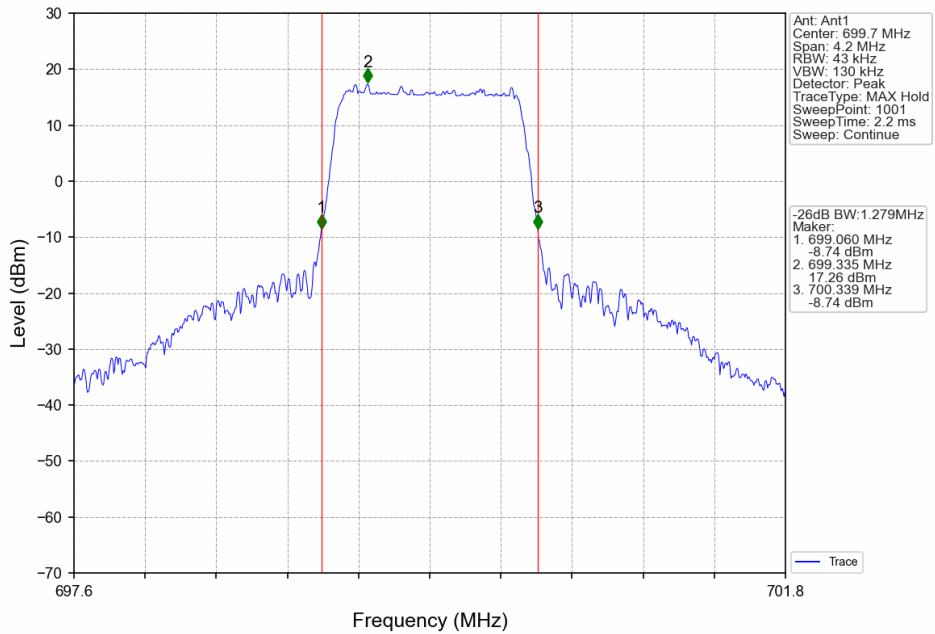




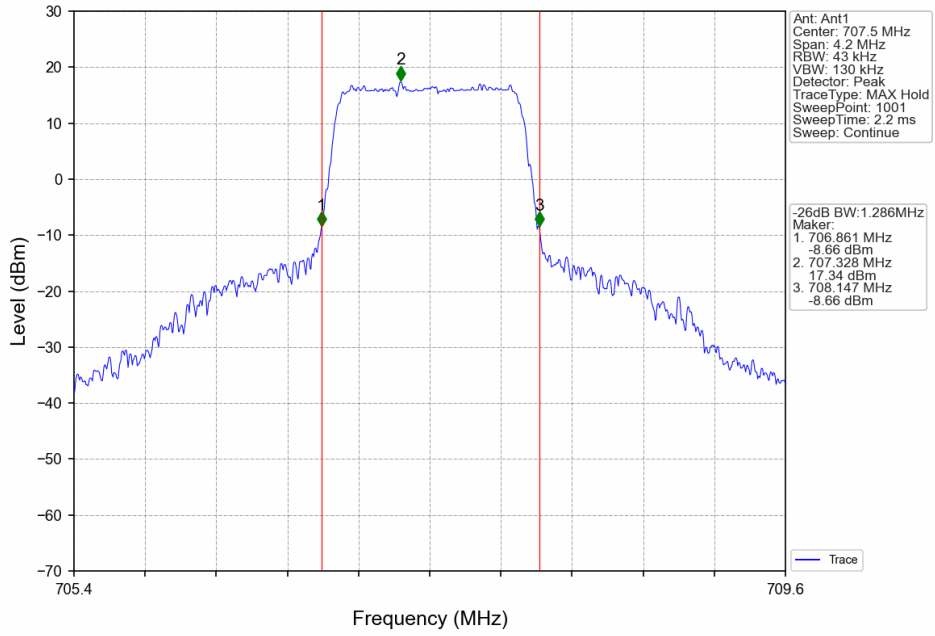
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



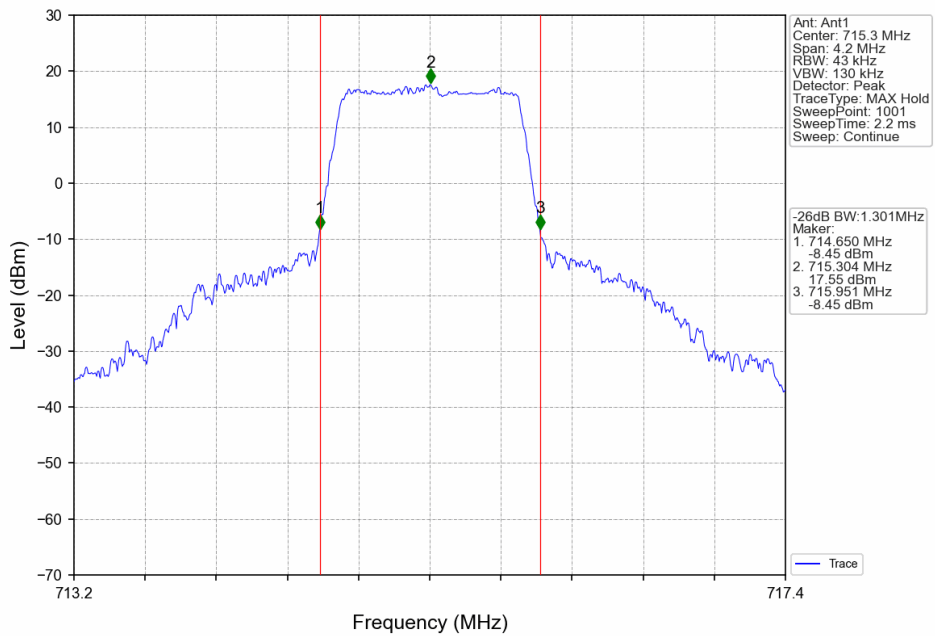
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



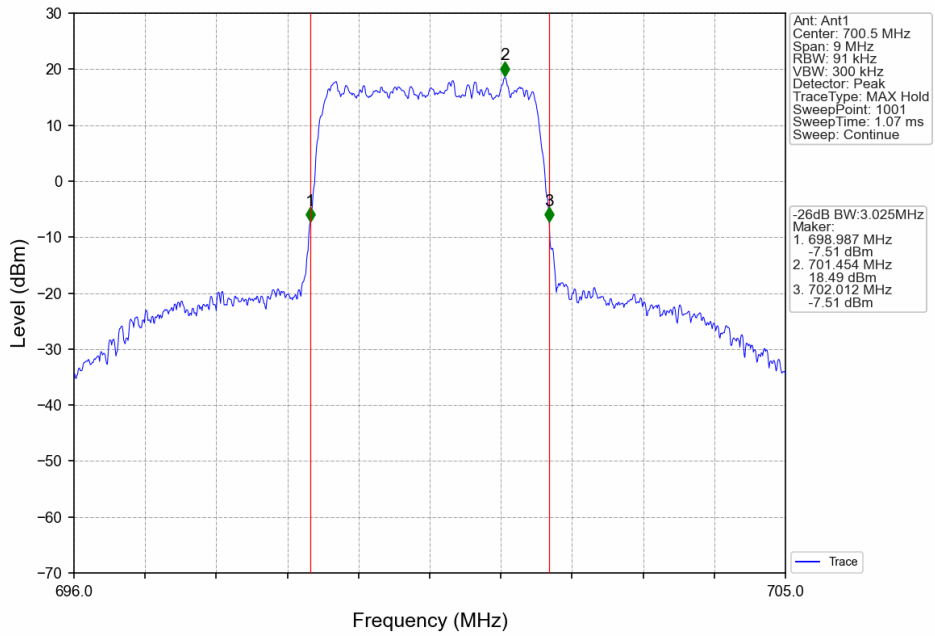
Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_6\_0\_NTNV



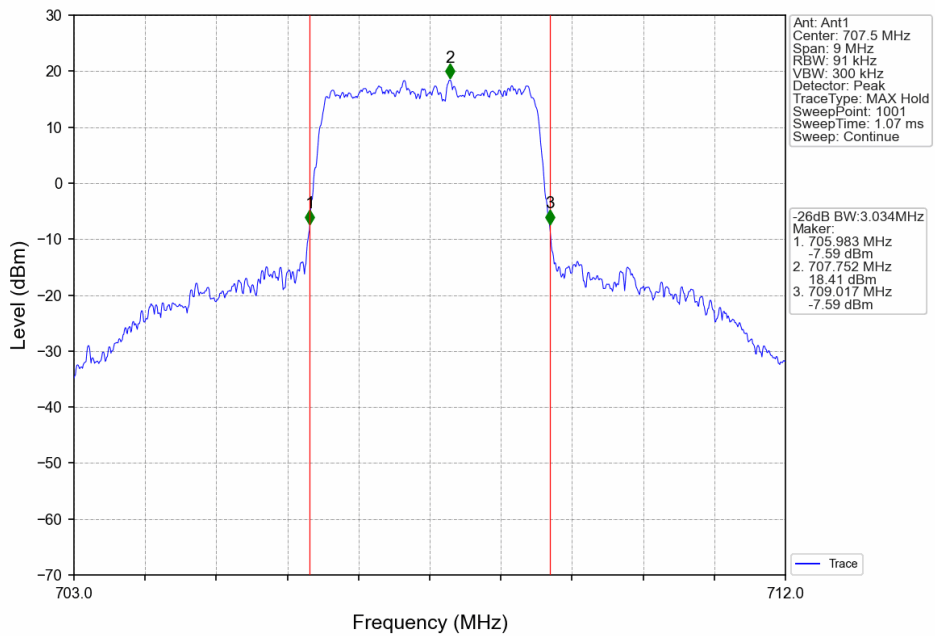
Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



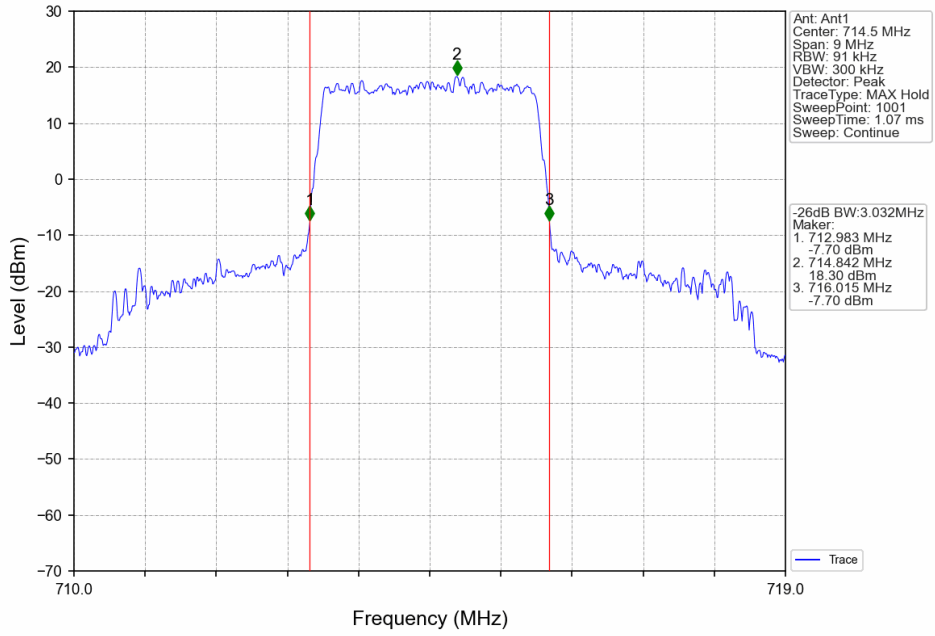
Band12\_3MHz\_QPSK\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



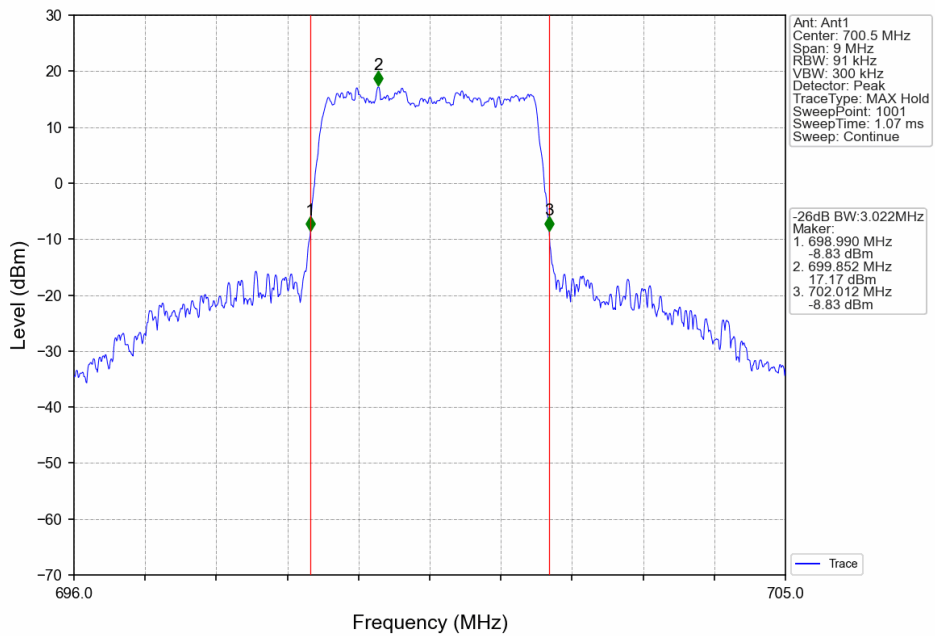
Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



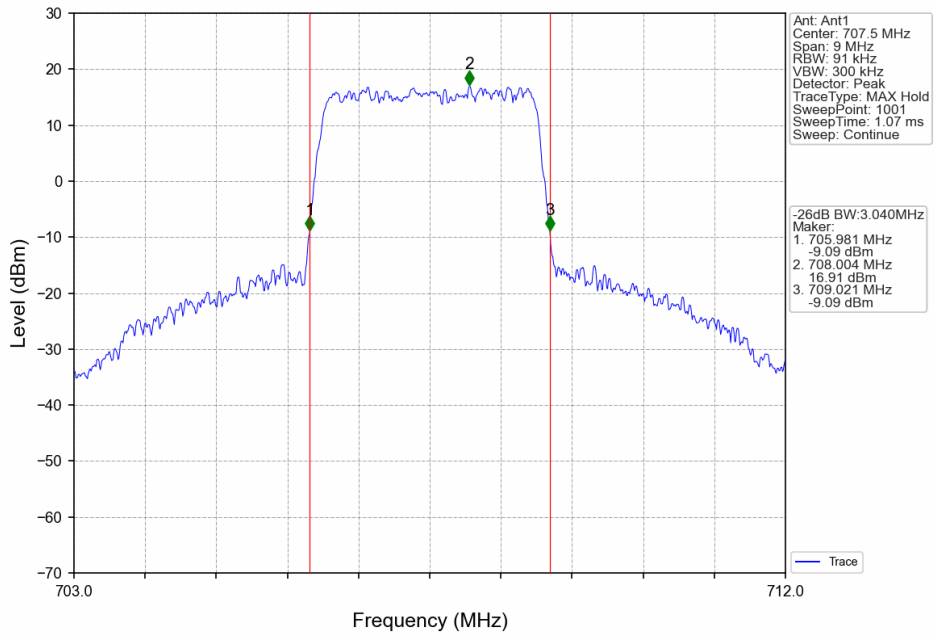
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



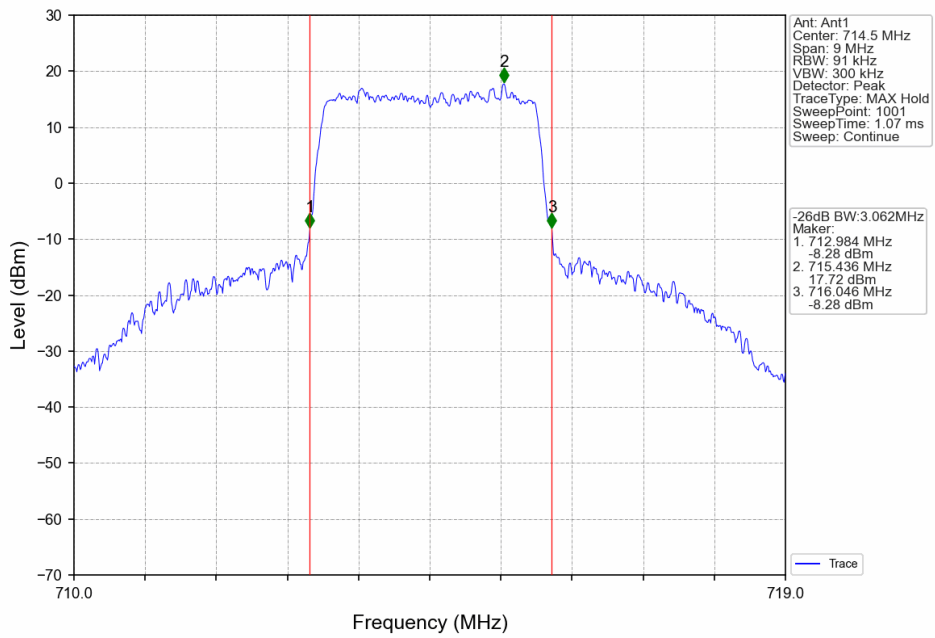
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



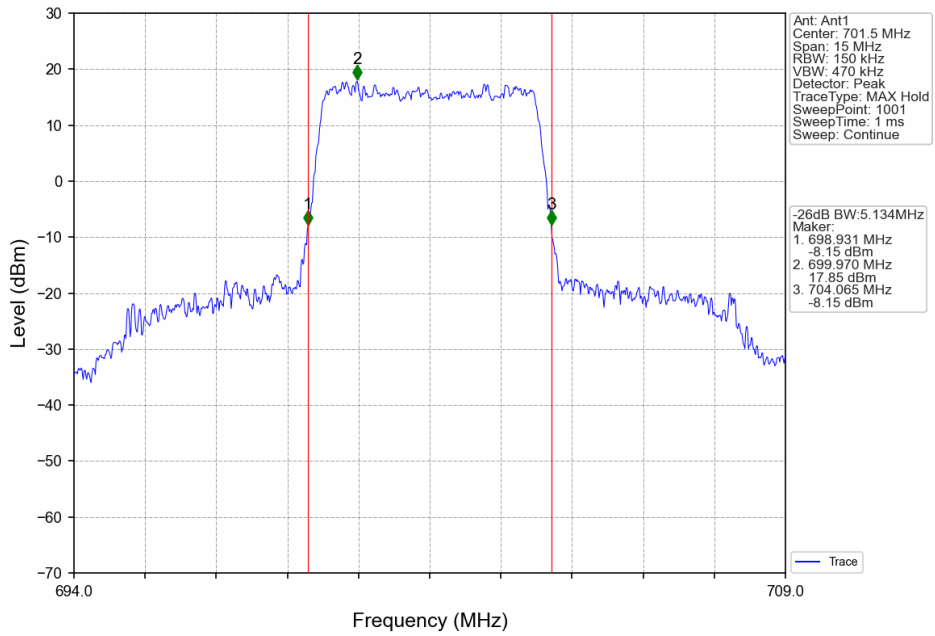
Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_15\_0\_NTNV



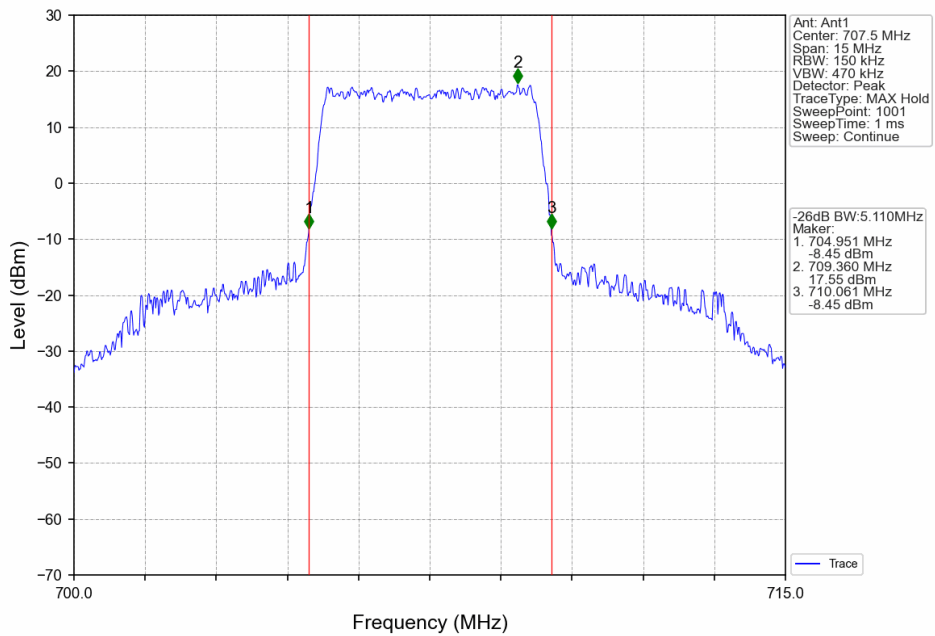
Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



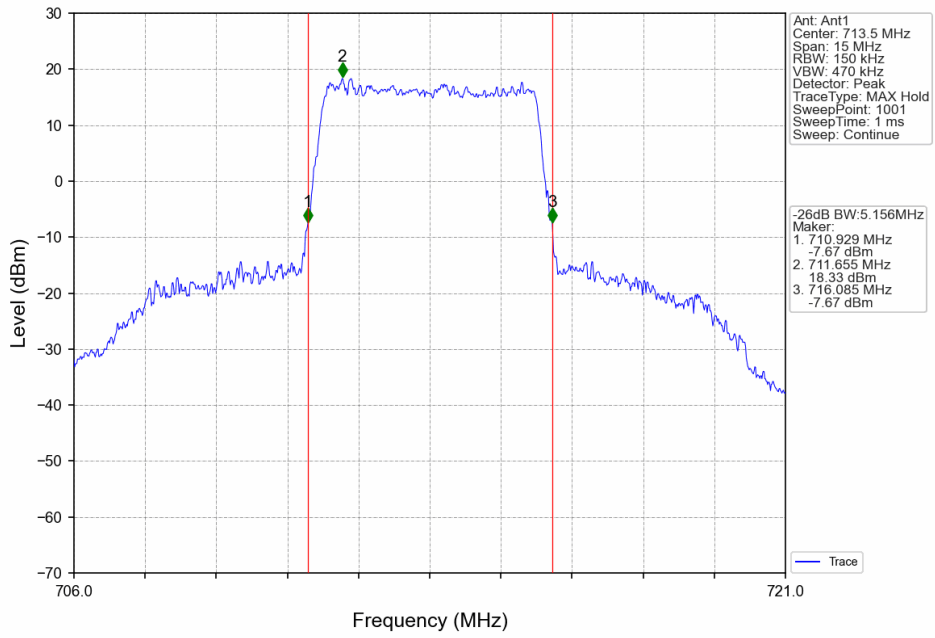
Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



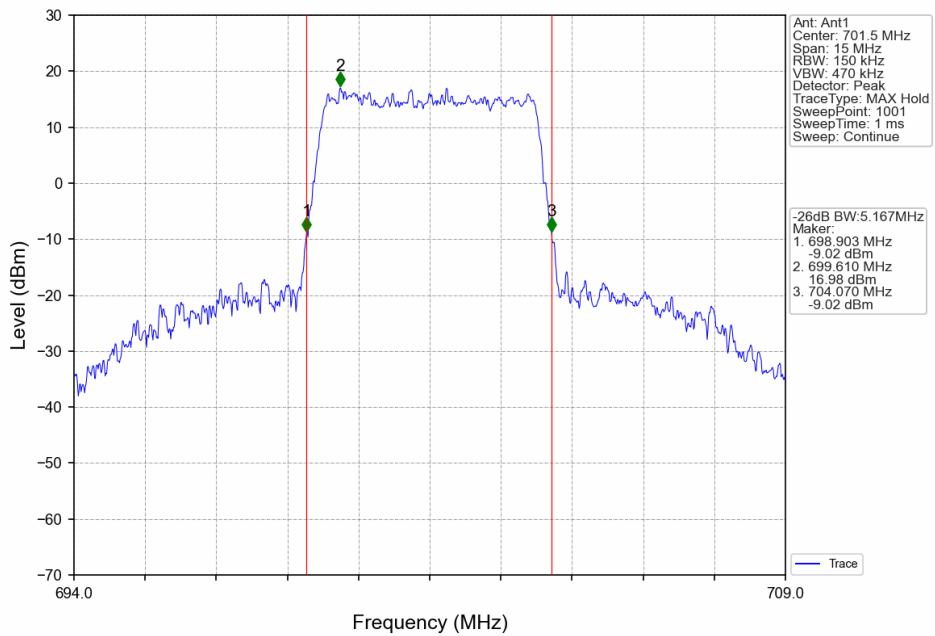
Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_25\_0\_NTNV



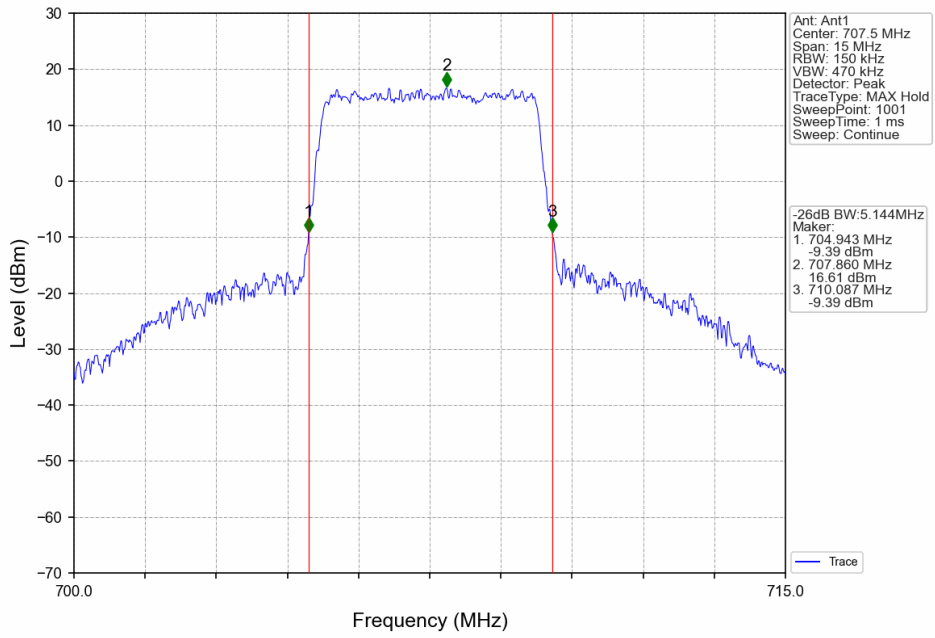
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



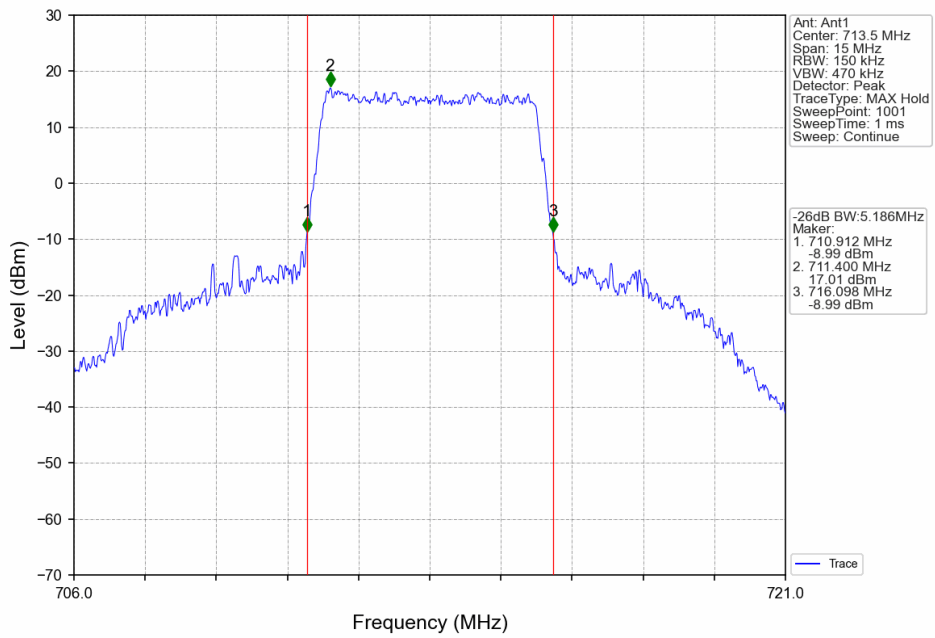
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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

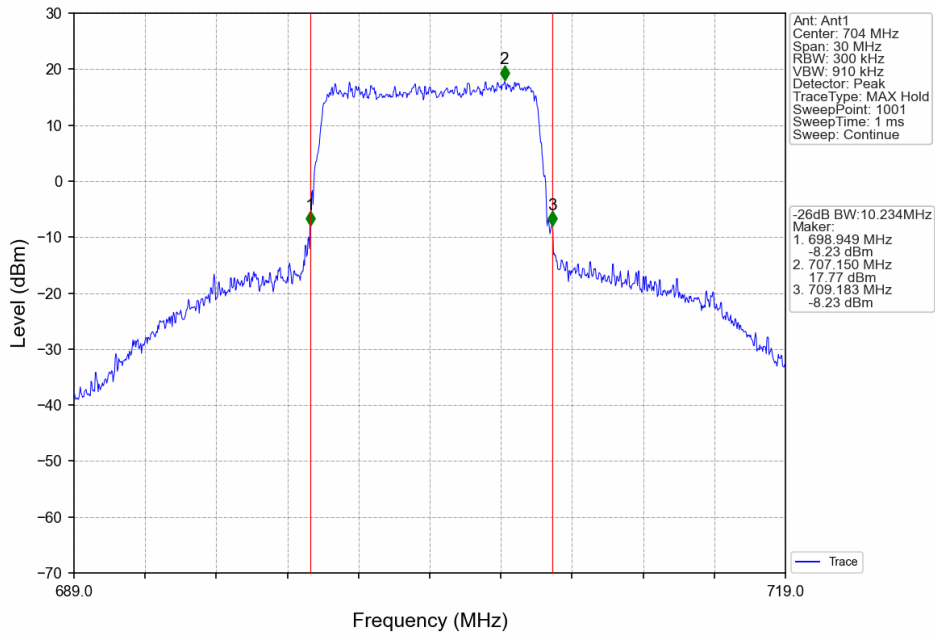


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

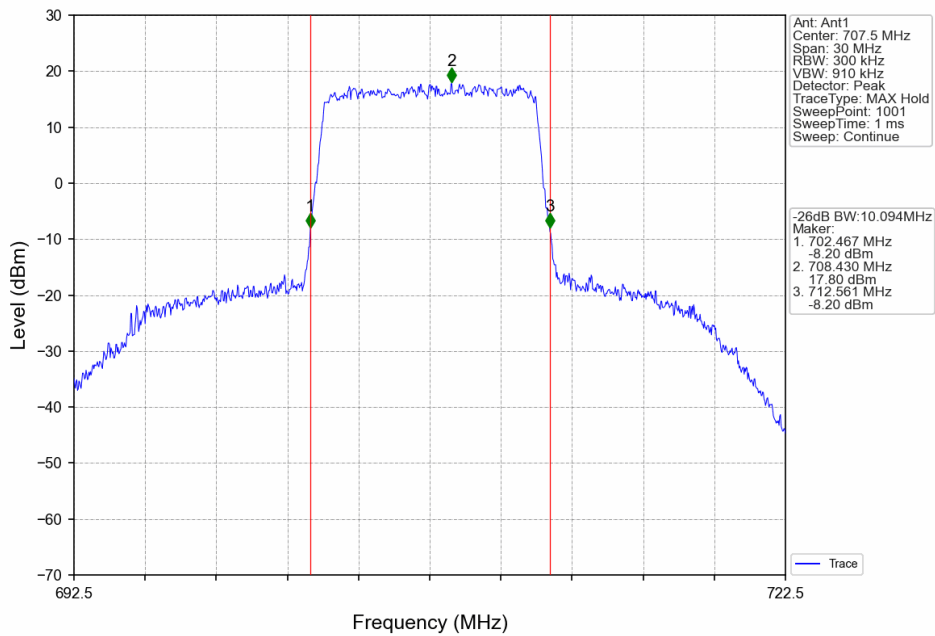




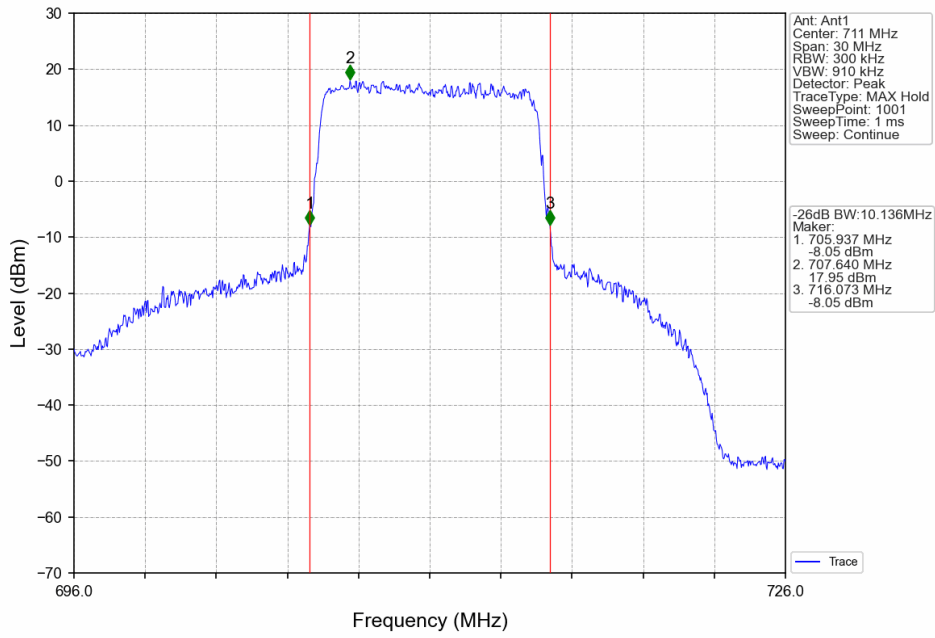
Band12\_10MHz\_QPSK\_LCH\_704MHz\_RB\_50\_0\_NTNV



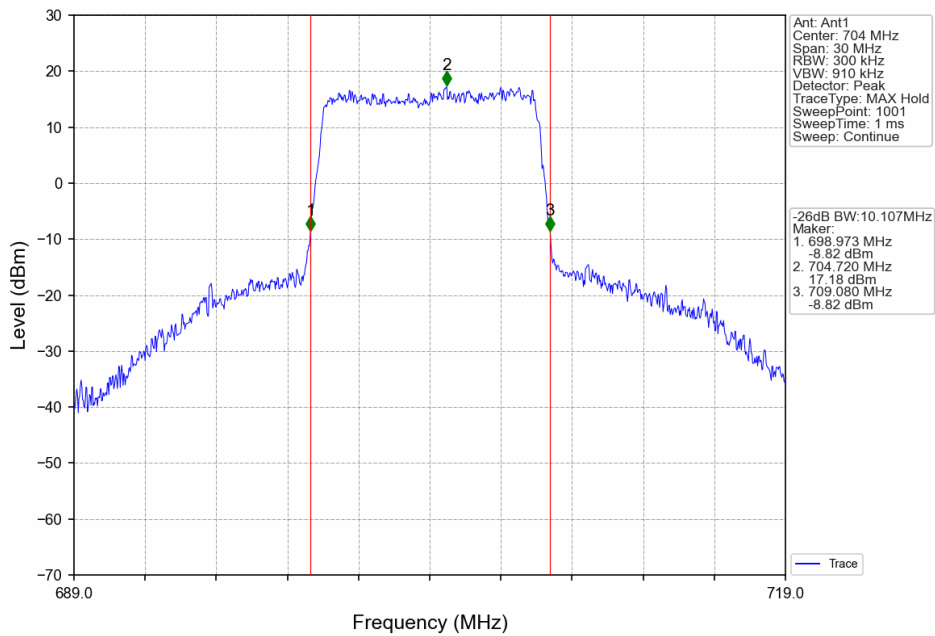
Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_50\_0\_NTNV



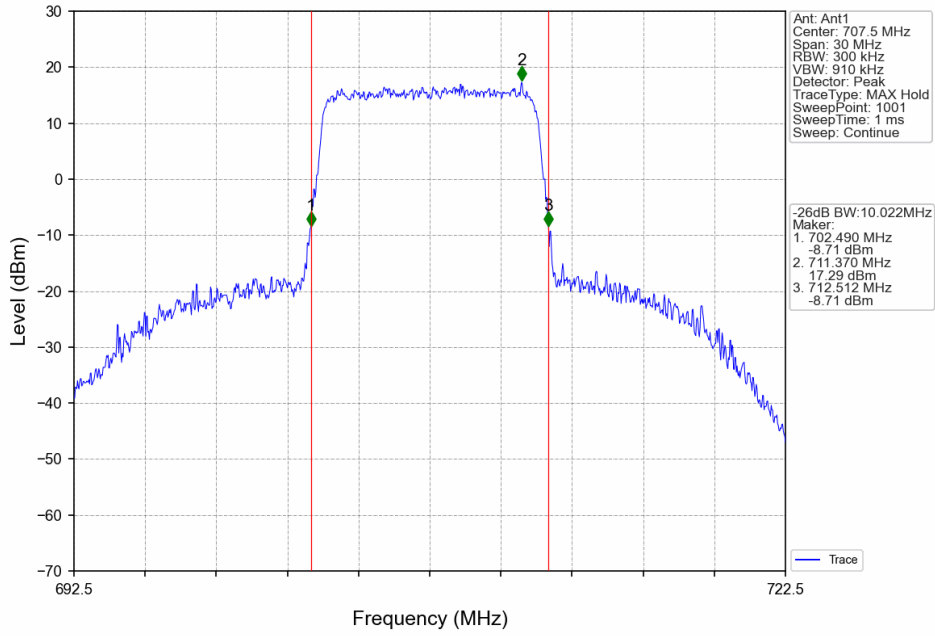
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



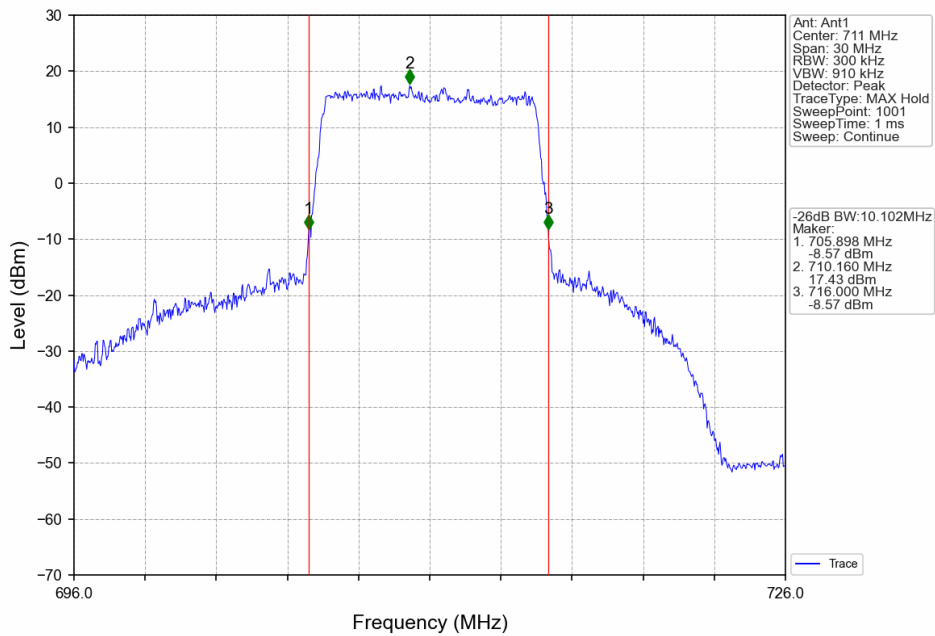
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



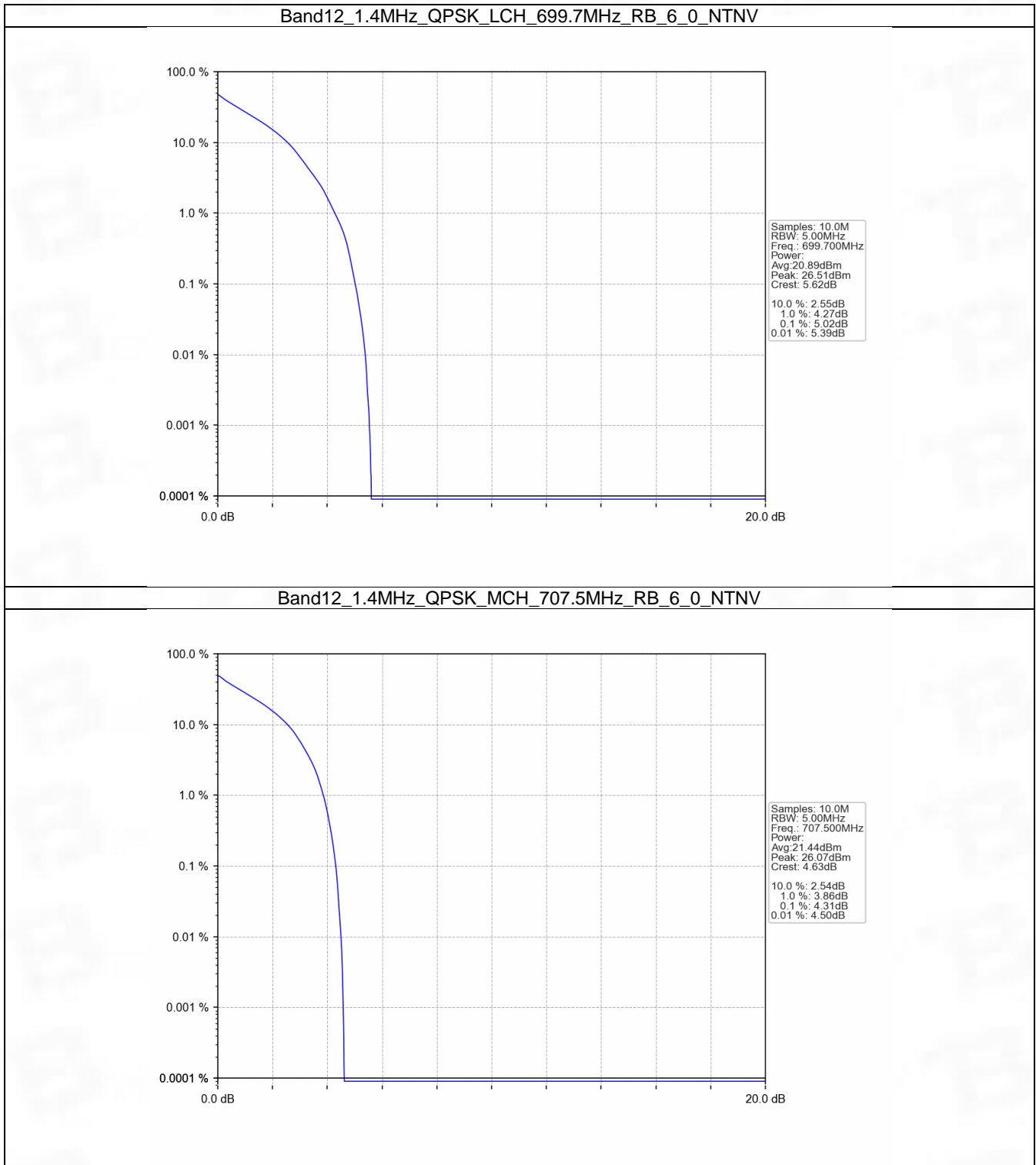
## 5. Peak-Average Ratio

### 5.1 B12\_1.4MHz

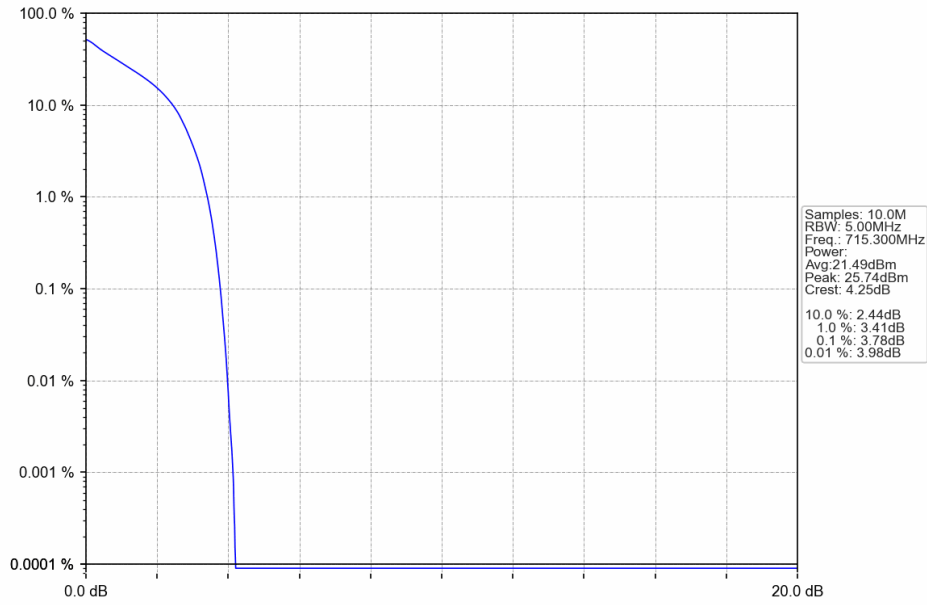
#### 5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.02	<=13	Pass
	707.5	6	0	4.31	<=13	Pass
	715.3	6	0	3.78	<=13	Pass
16QAM	699.7	6	0	5.82	<=13	Pass
	707.5	6	0	5.16	<=13	Pass
	715.3	6	0	4.69	<=13	Pass

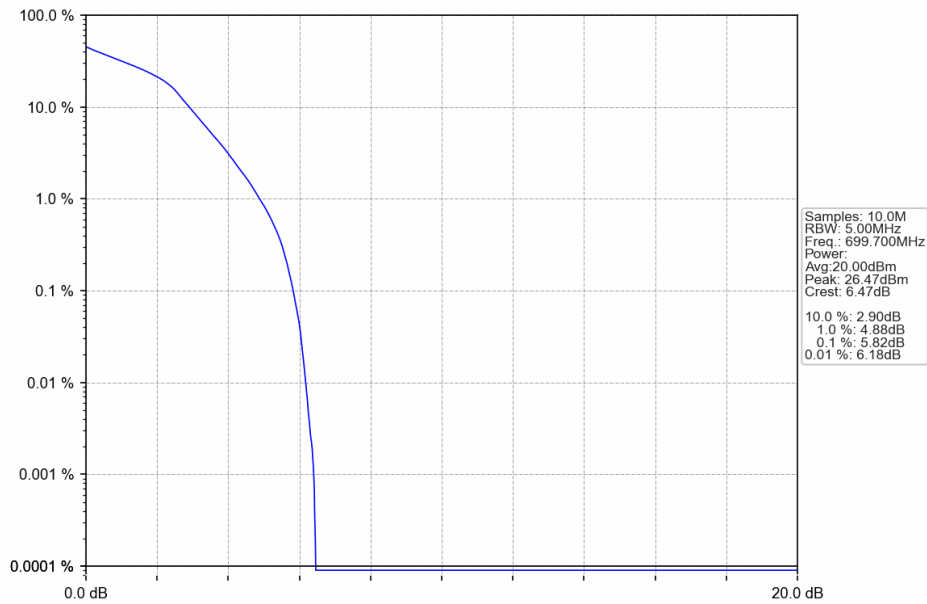
### 5.1.2 Test Graph



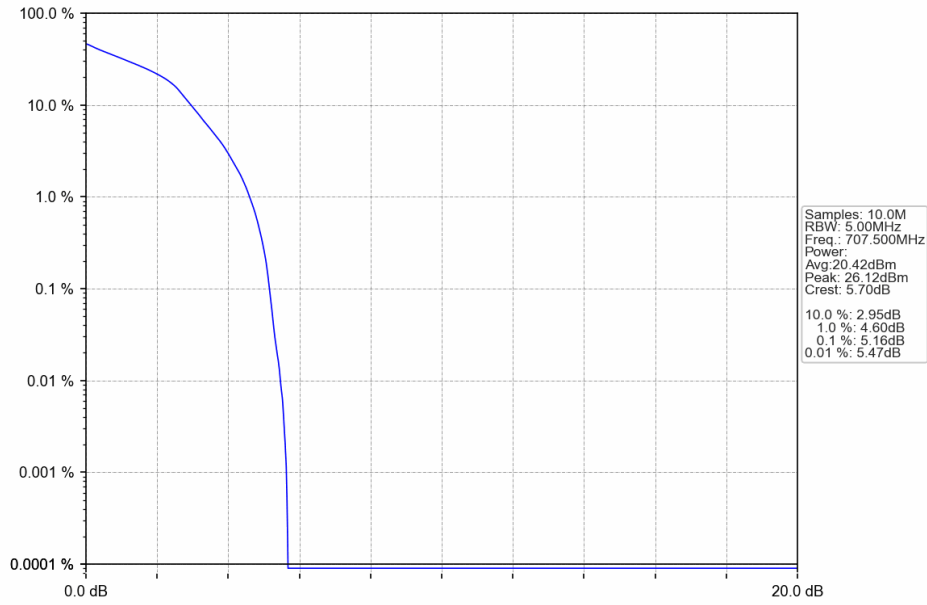
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



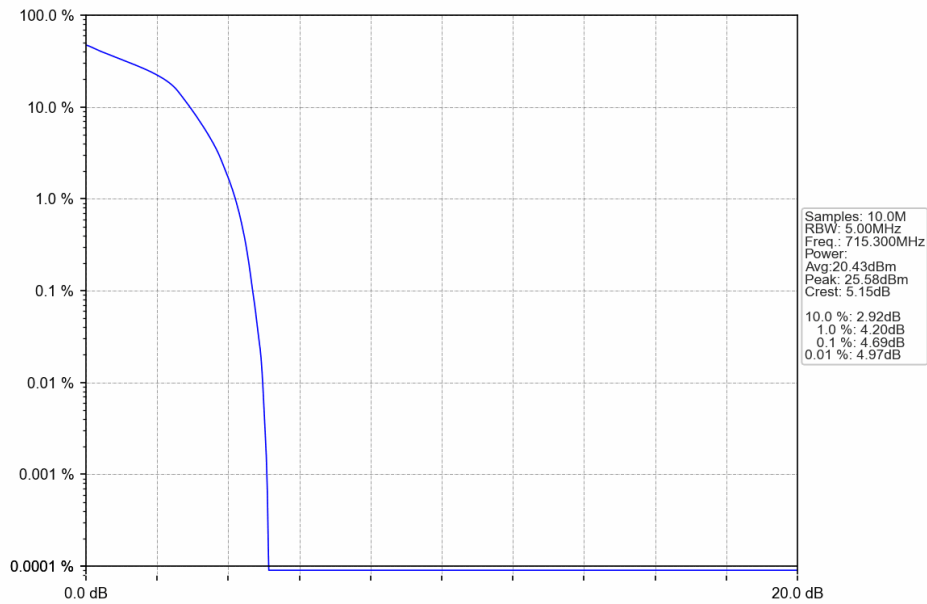
Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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



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



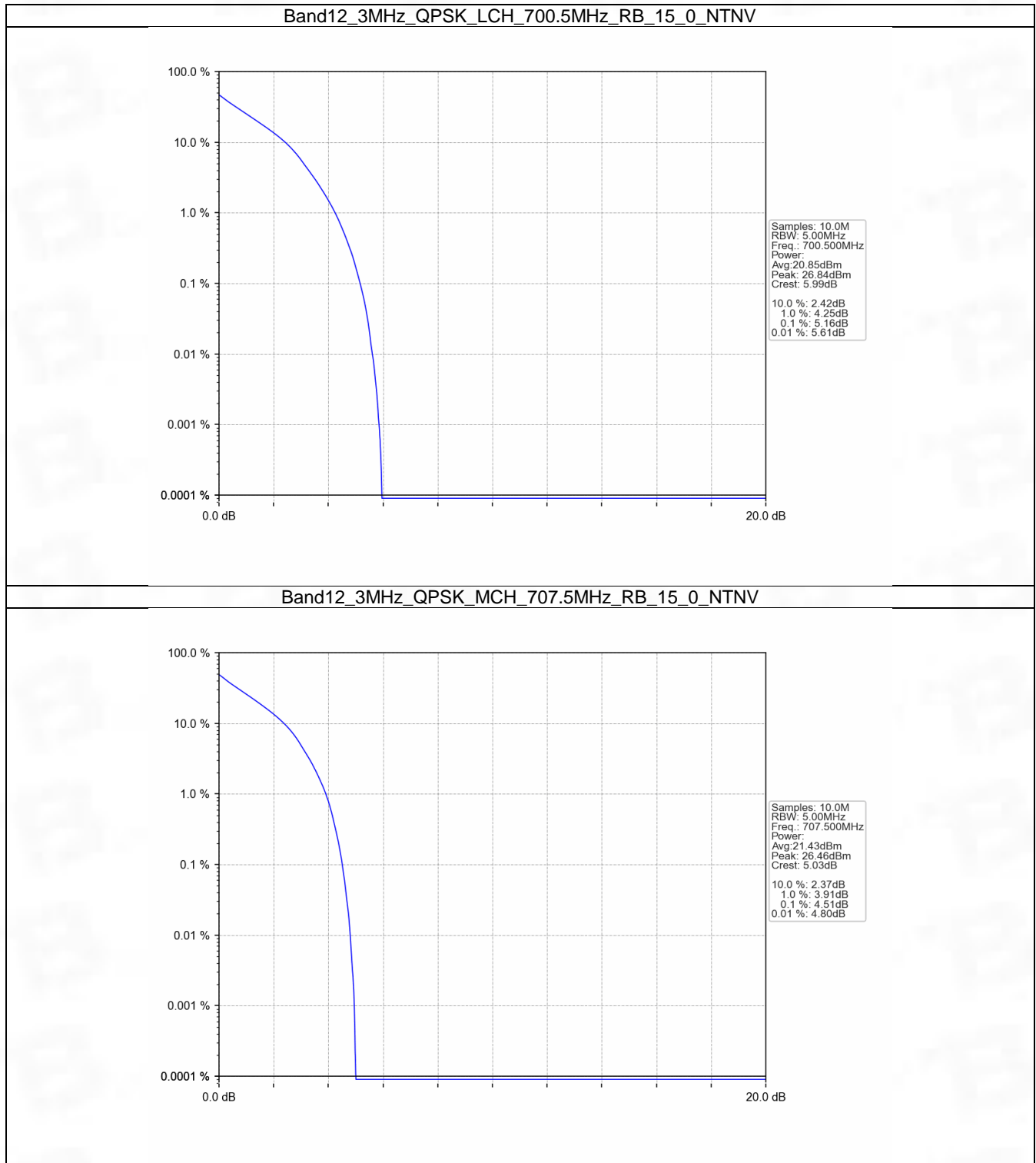
## 5.2 B12\_3MHz

### 5.2.1 Test Result

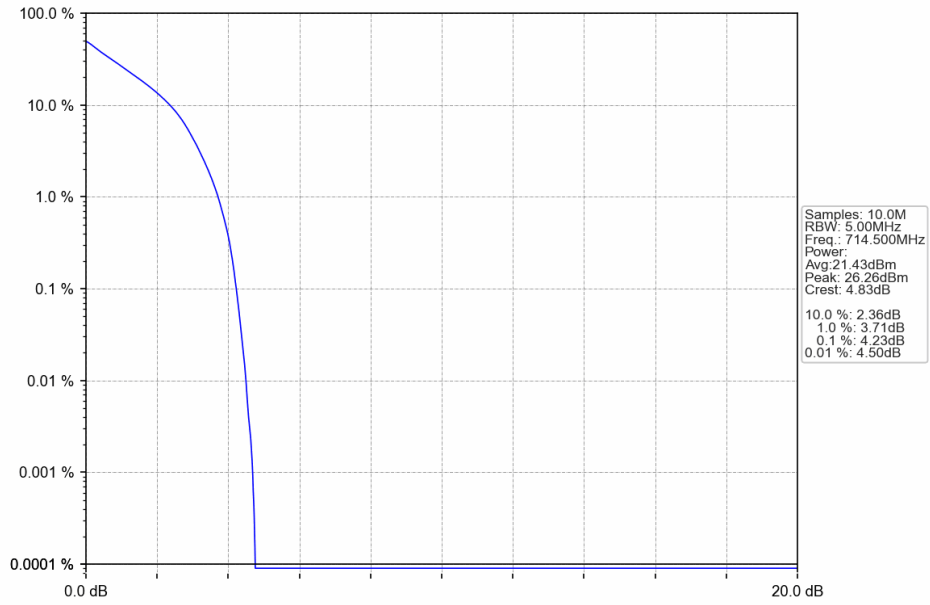
Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.16	<=13	Pass
	707.5	15	0	4.51	<=13	Pass
	714.5	15	0	4.23	<=13	Pass
16QAM	700.5	15	0	5.97	<=13	Pass
	707.5	15	0	5.38	<=13	Pass
	714.5	15	0	5.08	<=13	Pass



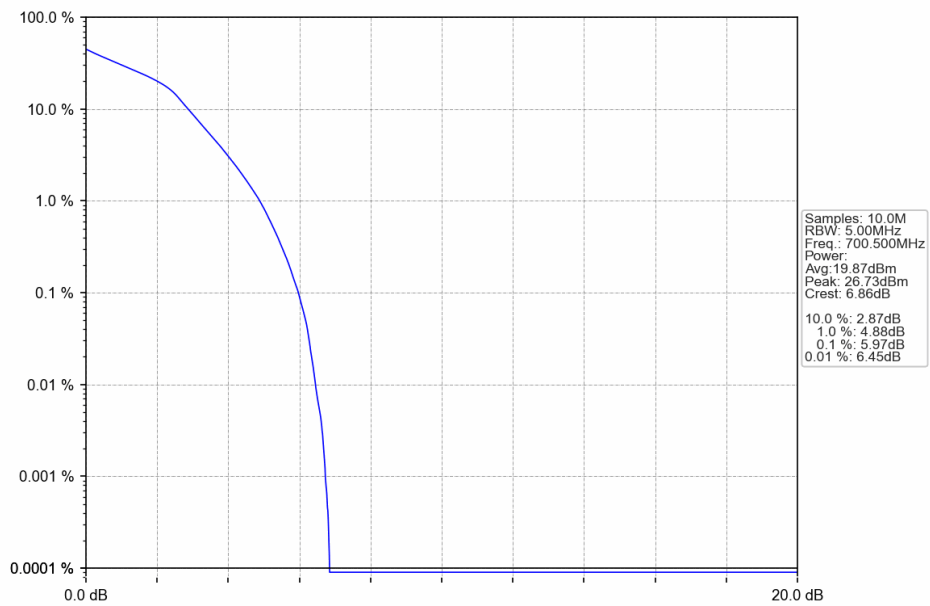
## 5.2.2 Test Graph



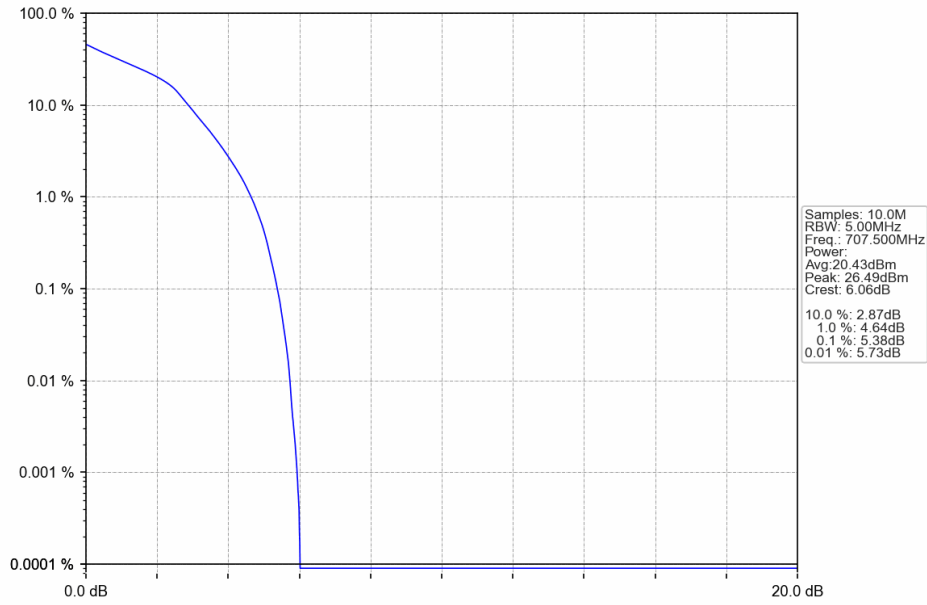
Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



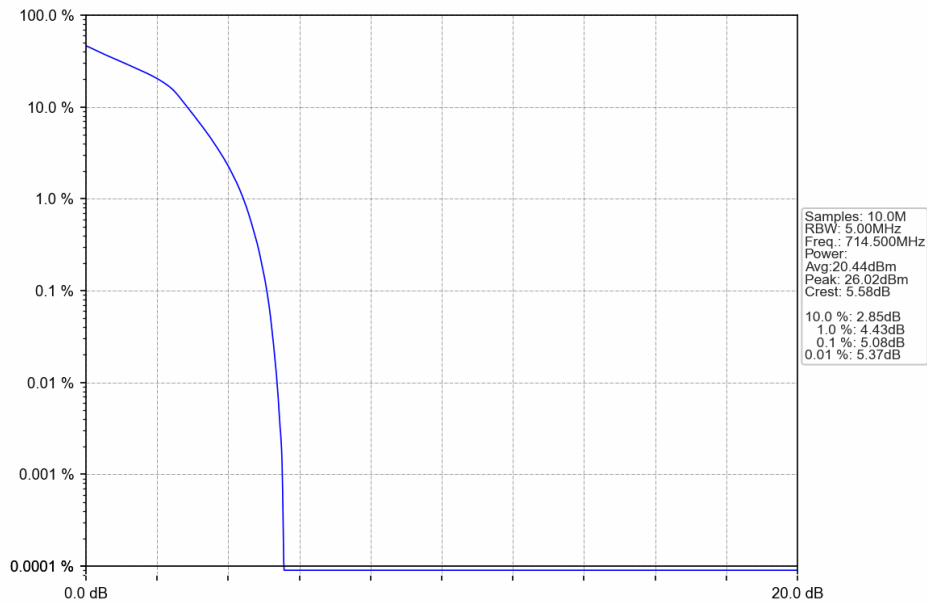
Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV



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



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

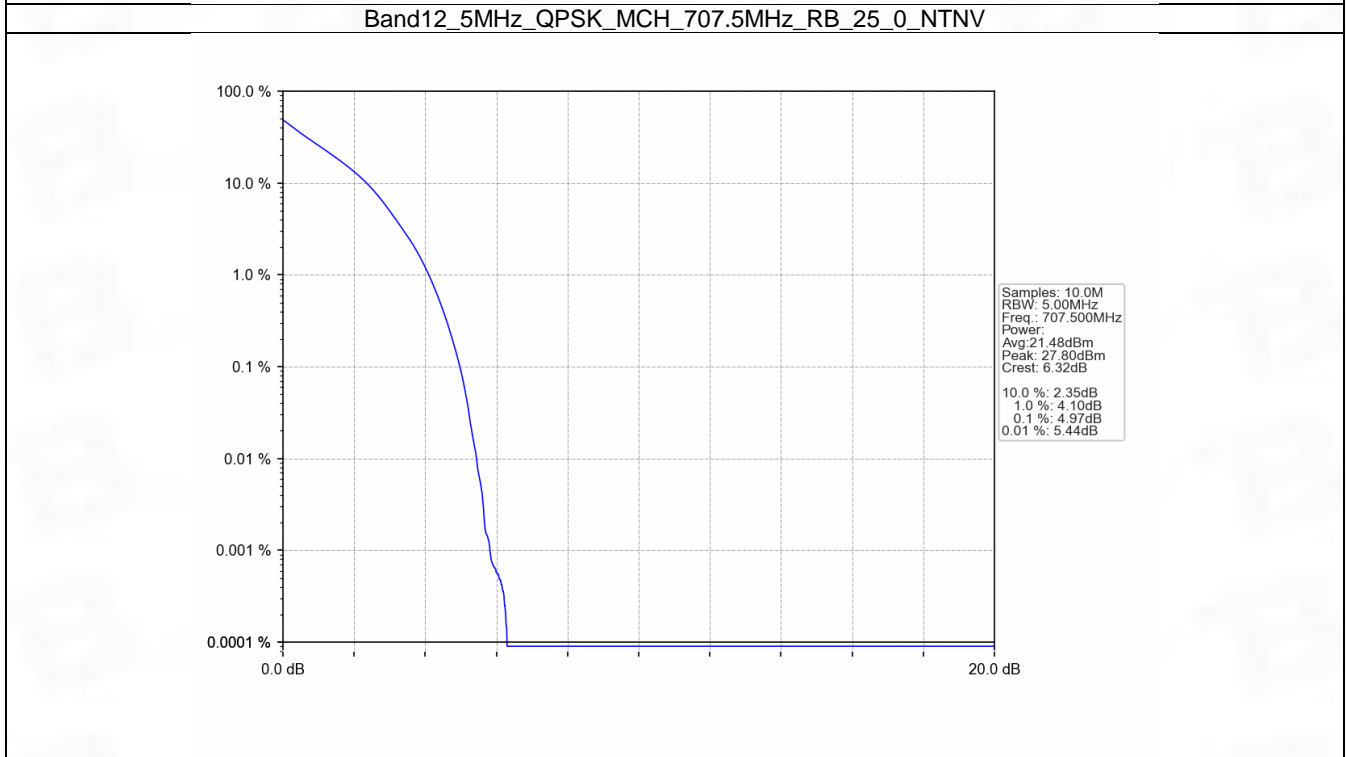
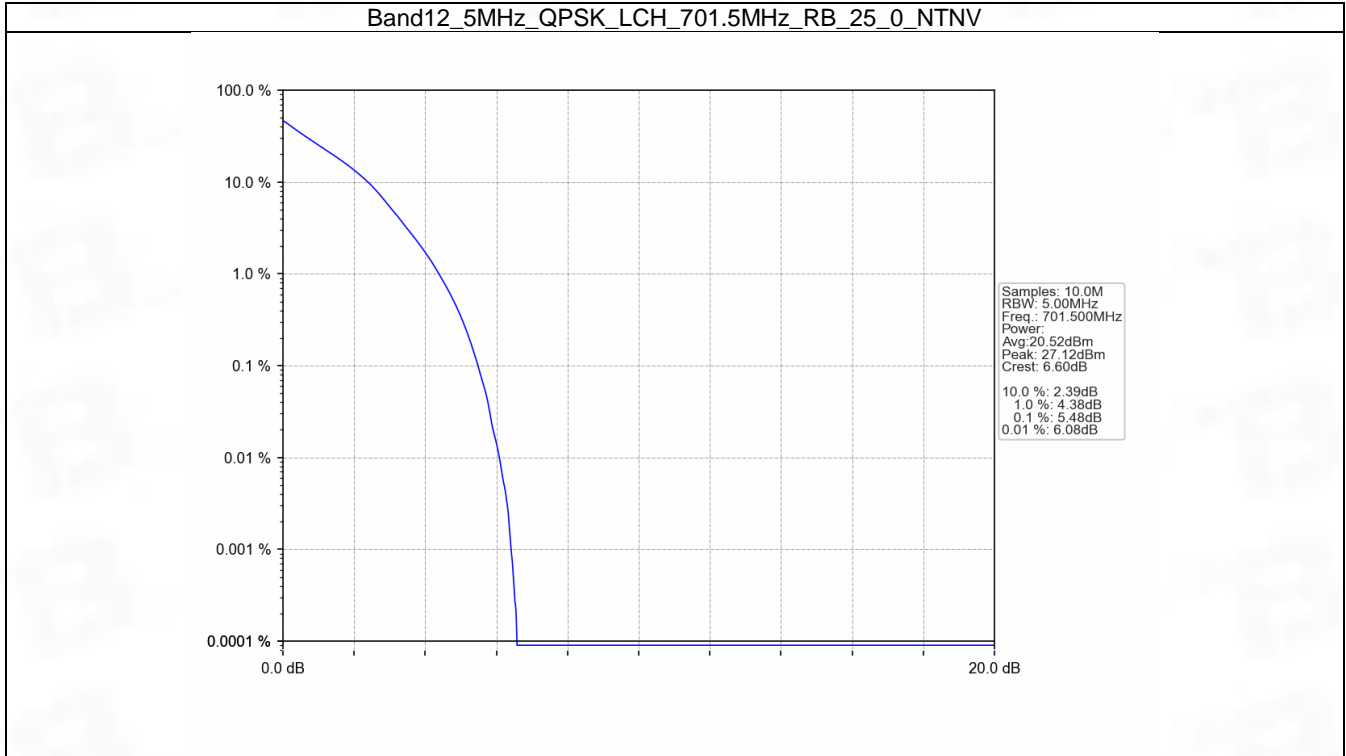


## 5.3 B12\_5MHz

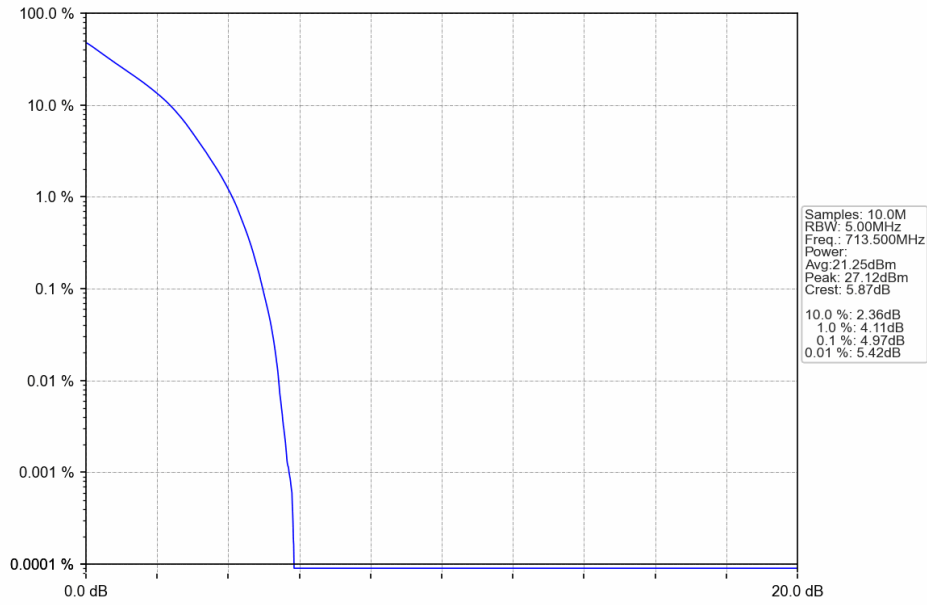
### 5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.48	<=13	Pass
	707.5	25	0	4.97	<=13	Pass
	713.5	25	0	4.97	<=13	Pass
16QAM	701.5	25	0	6.09	<=13	Pass
	707.5	25	0	5.68	<=13	Pass
	713.5	25	0	5.69	<=13	Pass

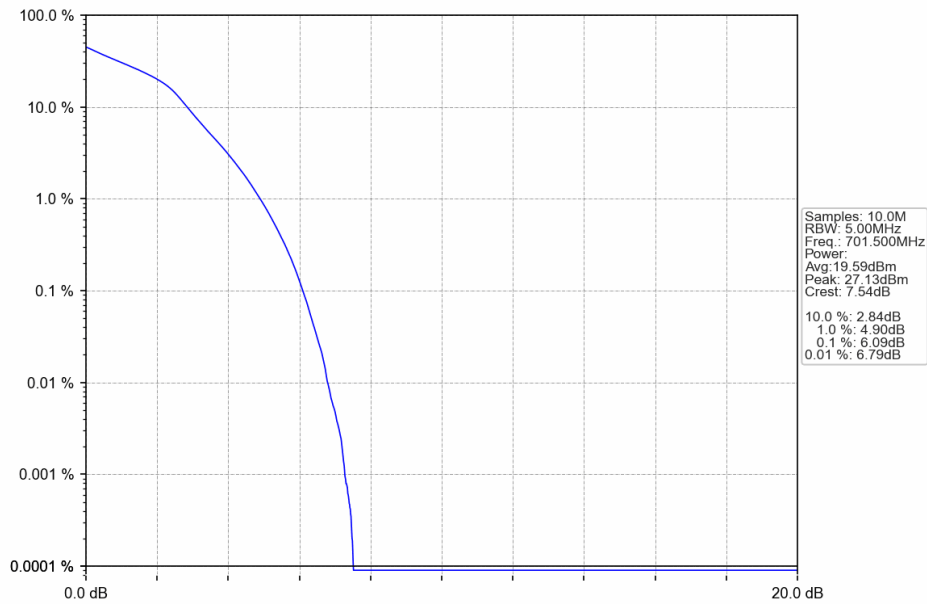
### 5.3.2 Test Graph



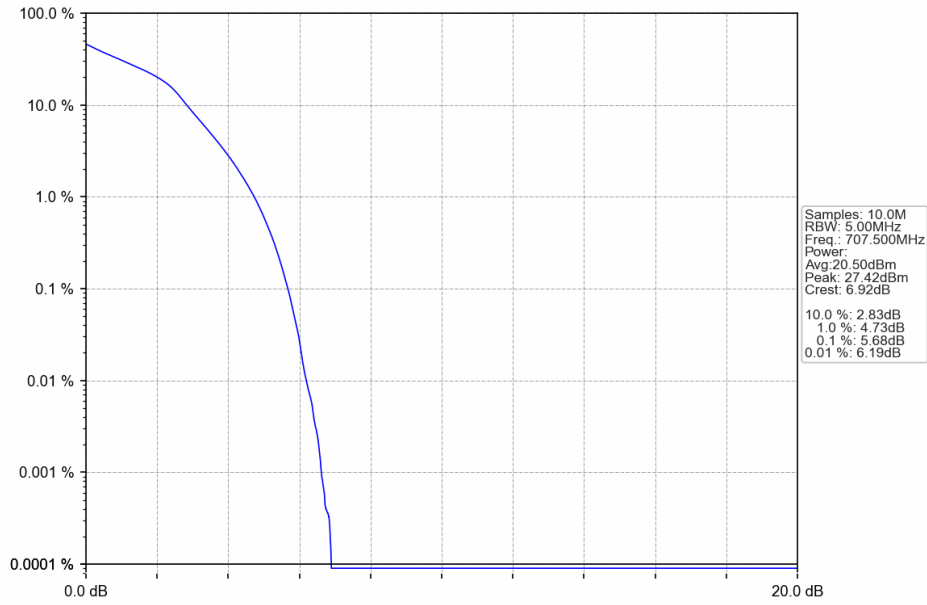
Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



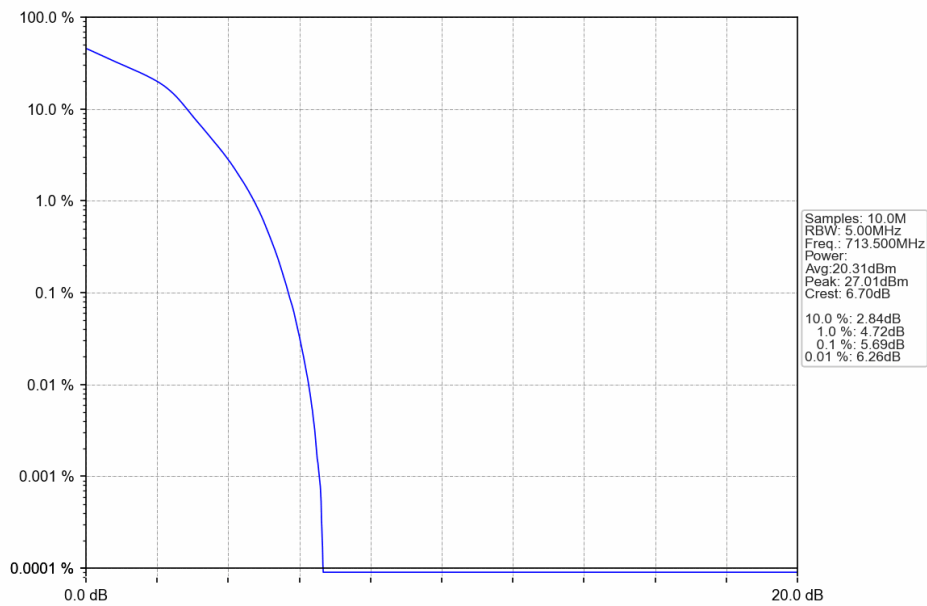
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



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



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



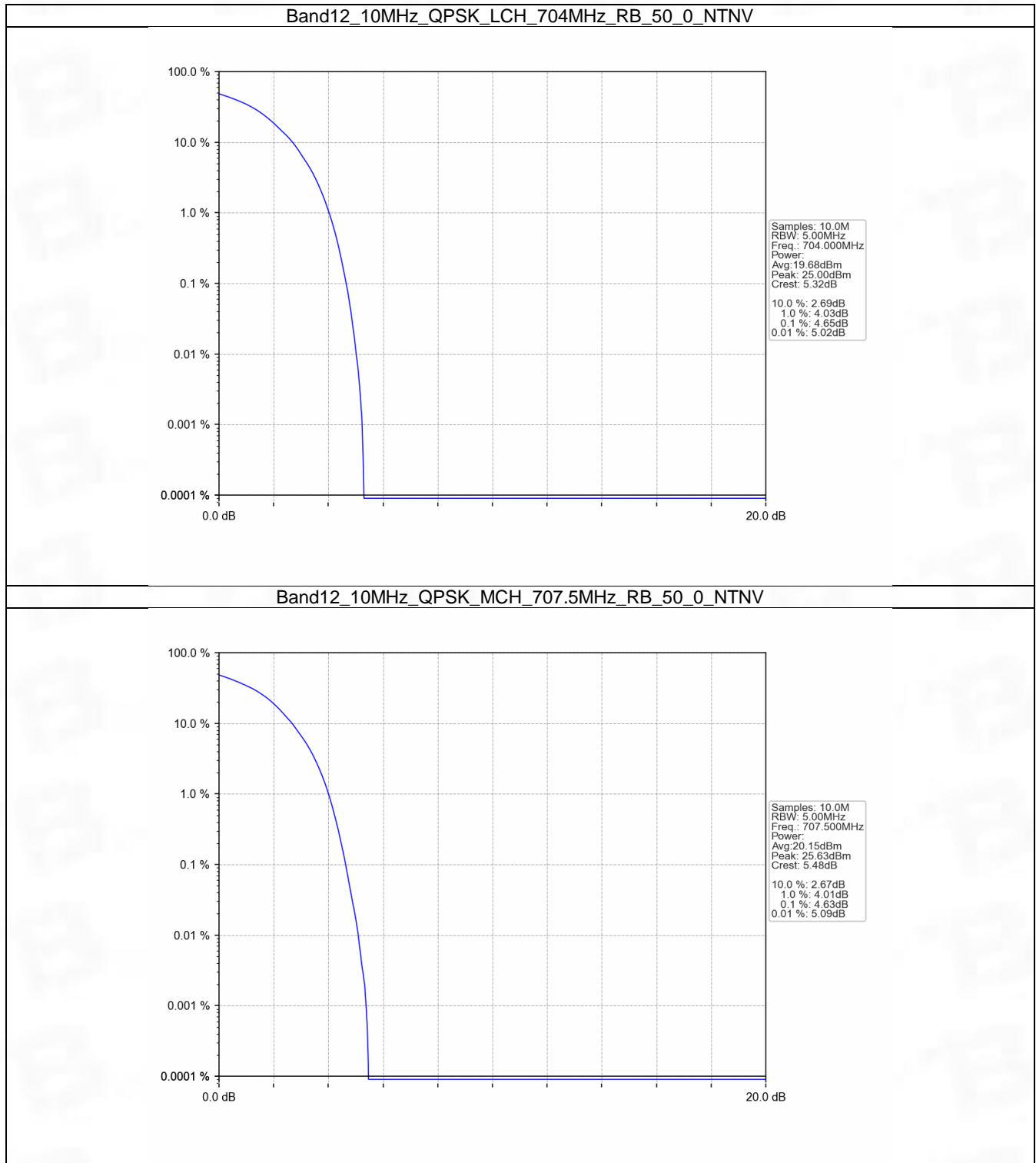
## 5.4 B12\_10MHz

### 5.4.1 Test Result

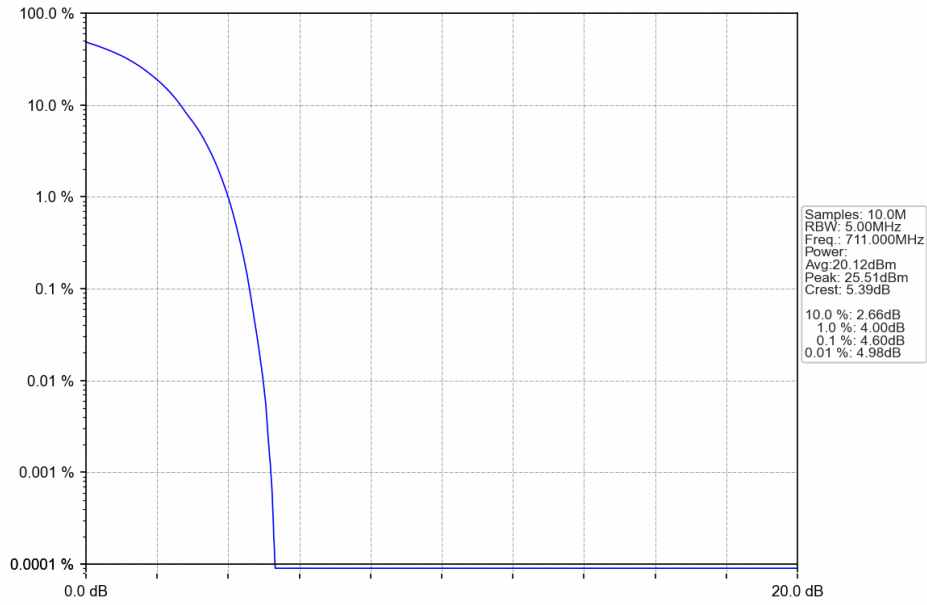
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.65	<=13	Pass
	707.5	50	0	4.63	<=13	Pass
	711	50	0	4.60	<=13	Pass
16QAM	704	50	0	5.96	<=13	Pass
	707.5	50	0	5.88	<=13	Pass
	711	50	0	5.96	<=13	Pass



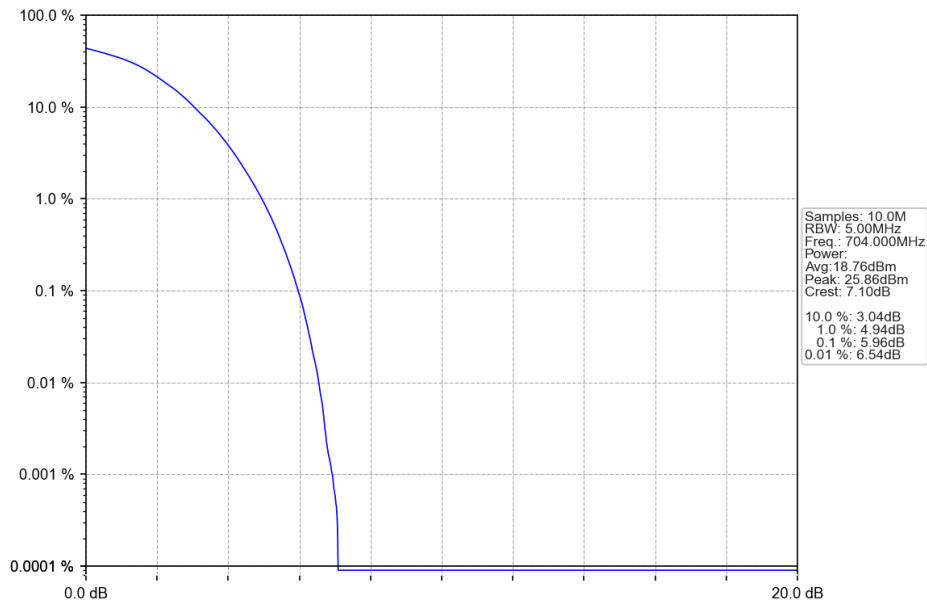
### 5.4.2 Test Graph



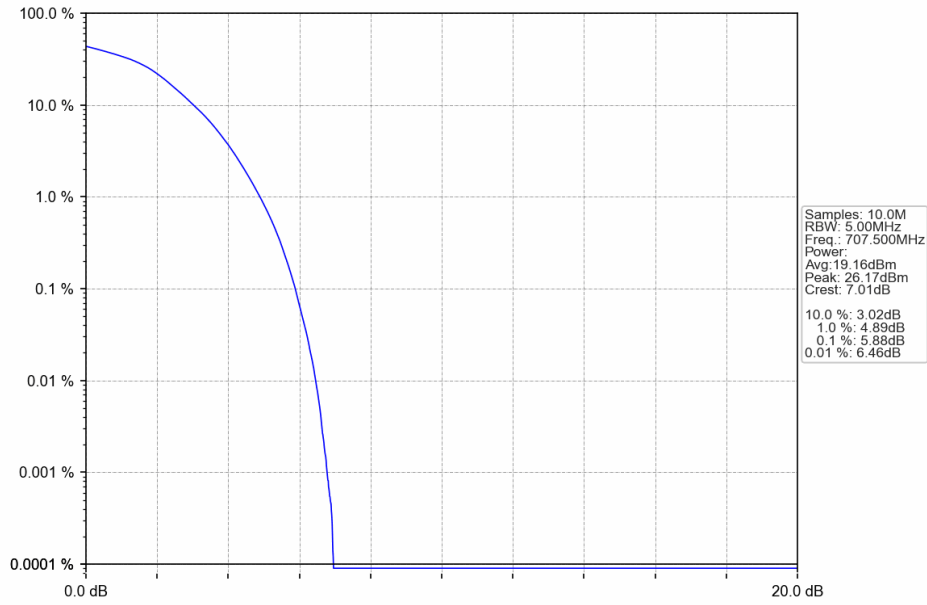
Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



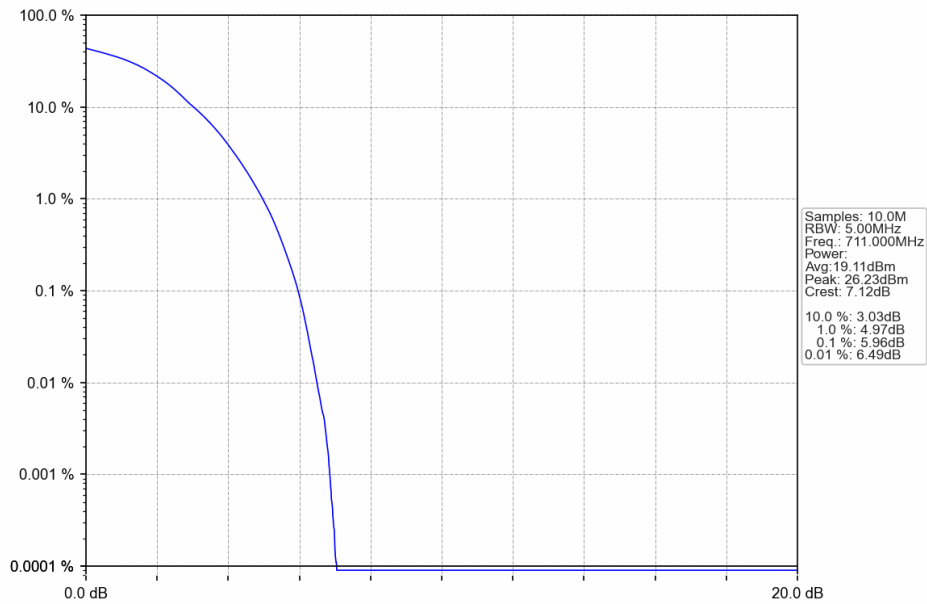
Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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



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



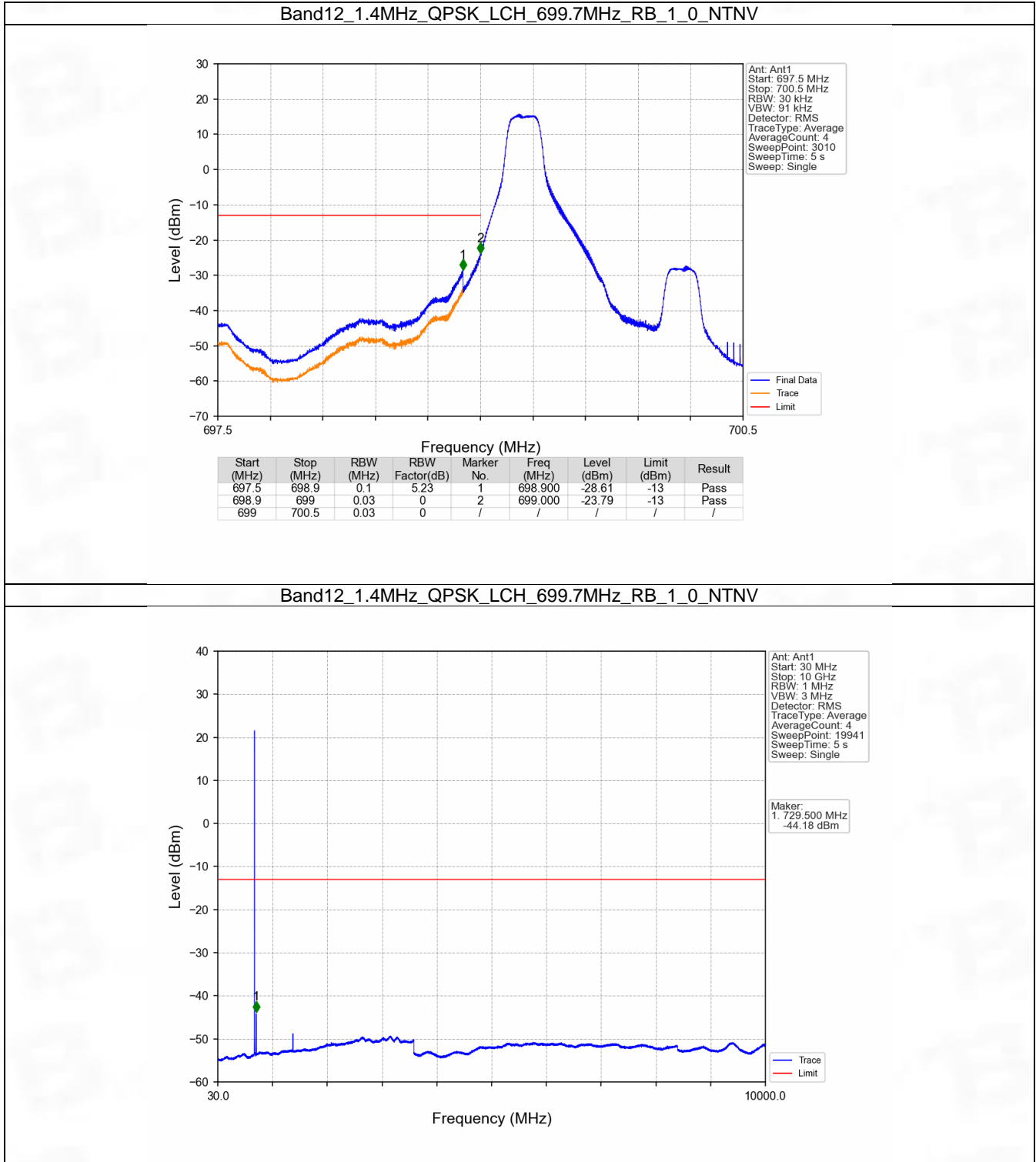
## 6. Spurious Emission

### 6.1 B12\_1.4MHz

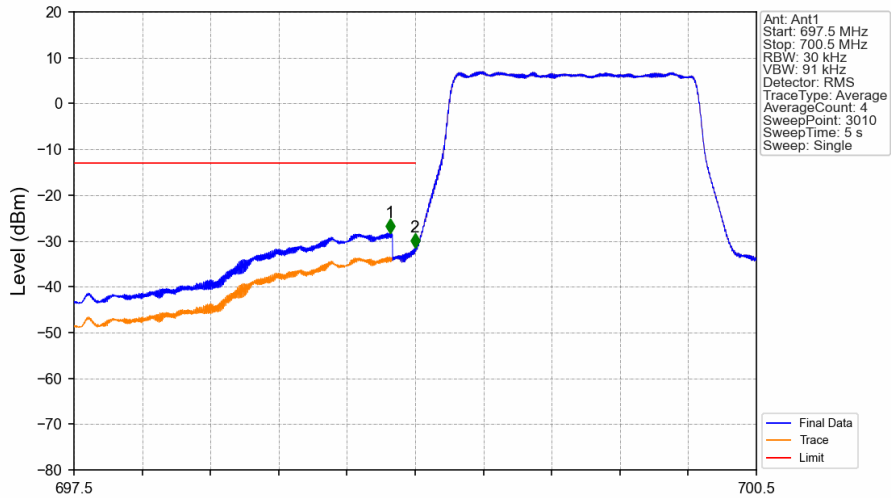
#### 6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / 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
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
			6	0	Refer To Test Graph	
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
			6	0	Refer To Test Graph	
		6	0	Refer To Test Graph		Pass

### 6.1.2 Test Graph

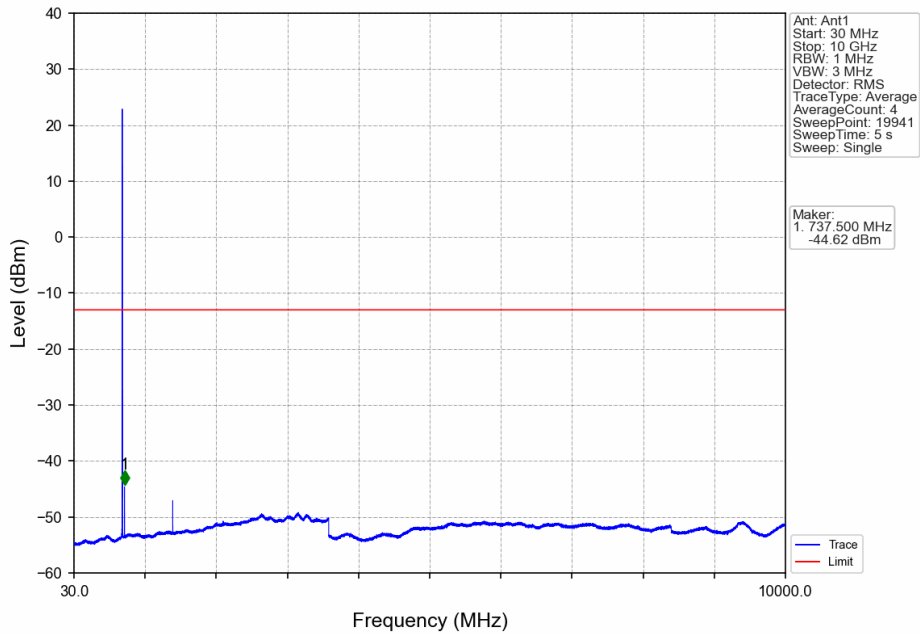


Band12\_1.4MHz\_QPSK\_LCH\_699.7MHz\_RB\_6\_0\_NTNV



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	698.889	-28.26	-13	Pass
698.9	699	0.03	0	2	698.999	-31.43	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

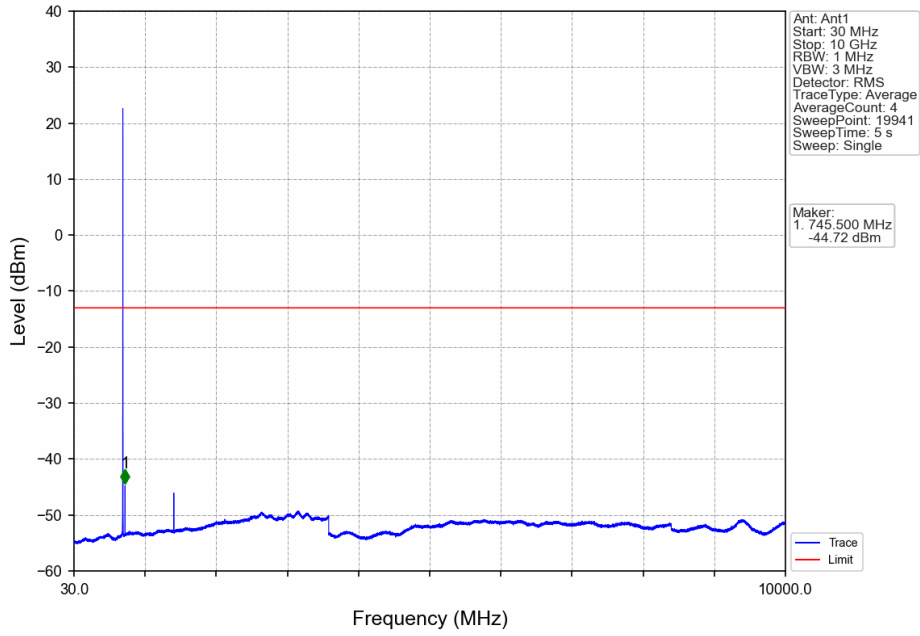
Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



Ant: Ant1  
 Start: 30 MHz  
 Stop: 10 GHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 Trace Type: Average  
 AverageCount: 4  
 SweepPoint: 19941  
 SweepTime: 5 s  
 Sweep: Single

Marker:  
 1.737500 MHz  
 -44.62 dBm

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



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

