

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B17\_5MHz\_ERP

### 1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	22.74	-4.53	16.06	<=34.77	Pass		
			13	22.86	-4.53	16.18	<=34.77	Pass		
			24	22.81	-4.53	16.13	<=34.77	Pass		
		12	0	21.78	-4.53	15.10	<=34.77	Pass		
			6	21.85	-4.53	15.17	<=34.77	Pass		
			13	21.63	-4.53	14.95	<=34.77	Pass		
		25	0	21.27	-4.53	14.59	<=34.77	Pass		
		710	1	0	22.24	-4.53	15.56	<=34.77	Pass	
				13	22.39	-4.53	15.71	<=34.77	Pass	
	24			22.32	-4.53	15.64	<=34.77	Pass		
	12		0	21.39	-4.53	14.71	<=34.77	Pass		
			6	21.37	-4.53	14.69	<=34.77	Pass		
			13	21.38	-4.53	14.70	<=34.77	Pass		
	25	0	21.36	-4.53	14.68	<=34.77	Pass			
	713.5	1	0	22.30	-4.53	15.62	<=34.77	Pass		
			13	22.48	-4.53	15.80	<=34.77	Pass		
			24	22.33	-4.53	15.65	<=34.77	Pass		
		12	0	21.33	-4.53	14.65	<=34.77	Pass		
			6	21.49	-4.53	14.81	<=34.77	Pass		
			13	21.39	-4.53	14.71	<=34.77	Pass		
		25	0	21.40	-4.53	14.72	<=34.77	Pass		
		16QAM	706.5	1	0	21.26	-4.53	14.58	<=34.77	Pass
					13	21.42	-4.53	14.74	<=34.77	Pass
	24				21.39	-4.53	14.71	<=34.77	Pass	
12	0			20.26	-4.53	13.58	<=34.77	Pass		
	6			20.34	-4.53	13.66	<=34.77	Pass		
	13			20.26	-4.53	13.58	<=34.77	Pass		
25	0			20.34	-4.53	13.66	<=34.77	Pass		
710	1			0	21.50	-4.53	14.82	<=34.77	Pass	
				13	21.71	-4.53	15.03	<=34.77	Pass	
			24	21.60	-4.53	14.92	<=34.77	Pass		
	12		0	20.37	-4.53	13.69	<=34.77	Pass		
			6	20.43	-4.53	13.75	<=34.77	Pass		
			13	20.47	-4.53	13.79	<=34.77	Pass		
25	0		20.39	-4.53	13.71	<=34.77	Pass			
713.5	1		0	21.13	-4.53	14.45	<=34.77	Pass		
			13	21.32	-4.53	14.64	<=34.77	Pass		
			24	21.24	-4.53	14.56	<=34.77	Pass		
	12		0	20.34	-4.53	13.66	<=34.77	Pass		
			6	20.50	-4.53	13.82	<=34.77	Pass		
			13	20.43	-4.53	13.75	<=34.77	Pass		
	25		0	20.44	-4.53	13.76	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B17\_10MHz\_ERP

### 1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	22.22	-4.53	15.54	<=34.77	Pass	
			25	22.47	-4.53	15.79	<=34.77	Pass	
			49	22.46	-4.53	15.78	<=34.77	Pass	
		25	0	21.44	-4.53	14.76	<=34.77	Pass	
			13	21.39	-4.53	14.71	<=34.77	Pass	
			25	21.51	-4.53	14.83	<=34.77	Pass	
	50	0	21.45	-4.53	14.77	<=34.77	Pass		
	710	1	0	22.20	-4.53	15.52	<=34.77	Pass	
			25	22.46	-4.53	15.78	<=34.77	Pass	
			49	22.41	-4.53	15.73	<=34.77	Pass	
		25	0	21.45	-4.53	14.77	<=34.77	Pass	
			13	21.37	-4.53	14.69	<=34.77	Pass	
			25	21.55	-4.53	14.87	<=34.77	Pass	
		50	0	21.50	-4.53	14.82	<=34.77	Pass	
		711	1	0	22.22	-4.53	15.54	<=34.77	Pass
				25	22.51	-4.53	15.83	<=34.77	Pass
	49			22.42	-4.53	15.74	<=34.77	Pass	
	25		0	21.45	-4.53	14.77	<=34.77	Pass	
			13	21.45	-4.53	14.77	<=34.77	Pass	
			25	21.50	-4.53	14.82	<=34.77	Pass	
	50	0	21.52	-4.53	14.84	<=34.77	Pass		
	16QAM	709	1	0	21.24	-4.53	14.56	<=34.77	Pass
				25	21.49	-4.53	14.81	<=34.77	Pass
				49	21.47	-4.53	14.79	<=34.77	Pass
25			0	20.55	-4.53	13.87	<=34.77	Pass	
			13	20.54	-4.53	13.86	<=34.77	Pass	
			25	20.65	-4.53	13.97	<=34.77	Pass	
50		0	20.54	-4.53	13.86	<=34.77	Pass		
710		1	0	21.38	-4.53	14.70	<=34.77	Pass	
			25	21.70	-4.53	15.02	<=34.77	Pass	
			49	21.62	-4.53	14.94	<=34.77	Pass	
		25	0	20.52	-4.53	13.84	<=34.77	Pass	
			13	20.48	-4.53	13.80	<=34.77	Pass	
			25	20.60	-4.53	13.92	<=34.77	Pass	
		50	0	20.54	-4.53	13.86	<=34.77	Pass	
		711	1	0	21.78	-4.53	15.10	<=34.77	Pass
				25	22.12	-4.53	15.44	<=34.77	Pass
49				22.03	-4.53	15.35	<=34.77	Pass	
25			0	20.59	-4.53	13.91	<=34.77	Pass	
			13	20.52	-4.53	13.84	<=34.77	Pass	
			25	20.61	-4.53	13.93	<=34.77	Pass	
50		0	20.58	-4.53	13.90	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B17\_5MHz

#### 2.1.1 Test Result

Band: 17 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	

QPSK	706.5	25	0	20	3.27	-5.879	-0.0083	-2.5 to 2.5	Pass				
					3.85	-7.467	-0.0106	-2.5 to 2.5	Pass				
					4.43	-6.065	-0.0086	-2.5 to 2.5	Pass				
				-30	3.85	-5.708	-0.0081	-2.5 to 2.5	Pass				
					-20	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass			
					-10	3.85	-8.869	-0.0126	-2.5 to 2.5	Pass			
				710	25	0	0	3.85	-6.723	-0.0095	-2.5 to 2.5	Pass	
								10	3.85	-3.762	-0.0053	-2.5 to 2.5	Pass
								30	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
	40	3.85	-8.426				-0.0119	-2.5 to 2.5	Pass				
		50	3.85				-7.496	-0.0106	-2.5 to 2.5	Pass			
		20	3.27				-3.104	-0.0044	-2.5 to 2.5	Pass			
	3.85		-6.237				-0.0088	-2.5 to 2.5	Pass				
	713.5	25	0				20	4.43	-6.995	-0.0099	-2.5 to 2.5	Pass	
				-30	3.85	-6.523		-0.0092	-2.5 to 2.5	Pass			
				-20	3.85	-5.207		-0.0073	-2.5 to 2.5	Pass			
				-10	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass				
					0	3.85	-4.978	-0.0070	-2.5 to 2.5	Pass			
					10	3.85	-2.689	-0.0038	-2.5 to 2.5	Pass			
				706.5	25	0	30	3.85	-3.219	-0.0045	-2.5 to 2.5	Pass	
								40	3.85	-6.208	-0.0087	-2.5 to 2.5	Pass
	50	3.85	-8.755					-0.0123	-2.5 to 2.5	Pass			
	20	3.27	-14.534				-0.0204	-2.5 to 2.5	Pass				
		3.85	-3.748				-0.0053	-2.5 to 2.5	Pass				
		4.43	-3.133				-0.0044	-2.5 to 2.5	Pass				
	710	25	0				-30	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass	
								-20	3.85	-8.826	-0.0124	-2.5 to 2.5	Pass
-10				3.85	-6.895	-0.0097		-2.5 to 2.5	Pass				
0				3.85	-6.738	-0.0094	-2.5 to 2.5	Pass					
				10	3.85	-4.821	-0.0068	-2.5 to 2.5	Pass				
				30	3.85	-4.277	-0.0060	-2.5 to 2.5	Pass				
713.5				25	0	40	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass		
							50	3.85	-9.513	-0.0133	-2.5 to 2.5	Pass	
	20	3.27	-6.924				-0.0098	-2.5 to 2.5	Pass				
		3.85	-5.436			-0.0077	-2.5 to 2.5	Pass					
	706.5	25	0			20	4.43	-8.540	-0.0121	-2.5 to 2.5	Pass		
							-30	3.85	-5.436	-0.0077	-2.5 to 2.5	Pass	
							-20	3.85	-6.866	-0.0097	-2.5 to 2.5	Pass	
						-10	3.85	-5.851	-0.0083	-2.5 to 2.5	Pass		
0				3.85	-4.778		-0.0068	-2.5 to 2.5	Pass				
10				3.85	-4.892		-0.0069	-2.5 to 2.5	Pass				
710				25	0	30	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass		
							40	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass	
	50	3.85	-5.393				-0.0076	-2.5 to 2.5	Pass				
	20	3.27	-2.575			-0.0036	-2.5 to 2.5	Pass					
		3.85	-6.537			-0.0092	-2.5 to 2.5	Pass					
		4.43	-3.376			-0.0048	-2.5 to 2.5	Pass					
	713.5	25	0			-30	3.85	-4.978	-0.0070	-2.5 to 2.5	Pass		
							-20	3.85	-3.691	-0.0052	-2.5 to 2.5	Pass	
-10				3.85	-7.024		-0.0099	-2.5 to 2.5	Pass				
0				3.85	-1.931	-0.0027	-2.5 to 2.5	Pass					
				10	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass				
				30	3.85	-2.403	-0.0034	-2.5 to 2.5	Pass				
706.5				25	0	40	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass		
							50	3.85	-7.653	-0.0108	-2.5 to 2.5	Pass	
	20	3.27	-8.583				-0.0120	-2.5 to 2.5	Pass				
		3.85	-4.807			-0.0067	-2.5 to 2.5	Pass					
	-30	4.43	-8.712			-0.0122	-2.5 to 2.5	Pass					
		3.85	-6.580			-0.0092	-2.5 to 2.5	Pass					
		3.85	-6.580			-0.0092	-2.5 to 2.5	Pass					

				-20	3.85	-9.198	-0.0129	-2.5 to 2.5	Pass
				-10	3.85	-2.575	-0.0036	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-3.304	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-5.593	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-5.350	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-13.289	-0.0186	-2.5 to 2.5	Pass

## 2.2 B17\_10MHz

### 2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	709	50	0	20	3.27	-7.267	-0.0102	-2.5 to 2.5	Pass				
					3.85	-5.107	-0.0072	-2.5 to 2.5	Pass				
					4.43	-6.151	-0.0087	-2.5 to 2.5	Pass				
				710	50	0	-30	3.85	-7.224	-0.0102	-2.5 to 2.5	Pass	
								-20	3.85	-6.623	-0.0093	-2.5 to 2.5	Pass
									3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
							0		3.85	-5.980	-0.0084	-2.5 to 2.5	Pass
								10	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
									3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
	3.85	-6.337	-0.0089				-2.5 to 2.5		Pass				
	3.85	-5.836	-0.0082				-2.5 to 2.5	Pass					
	711	50	0				20	3.27	-7.496	-0.0106	-2.5 to 2.5	Pass	
				3.85	-6.580	-0.0093		-2.5 to 2.5	Pass				
				4.43	-9.356	-0.0132		-2.5 to 2.5	Pass				
				709	50	0	-30	3.85	-8.883	-0.0125	-2.5 to 2.5	Pass	
								-20	3.85	-7.753	-0.0109	-2.5 to 2.5	Pass
									3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
							0		3.85	-5.221	-0.0074	-2.5 to 2.5	Pass
								10	3.85	-6.108	-0.0086	-2.5 to 2.5	Pass
									3.85	-8.368	-0.0118	-2.5 to 2.5	Pass
	3.85	-6.995	-0.0099				-2.5 to 2.5		Pass				
	3.85	-5.522	-0.0078				-2.5 to 2.5	Pass					
	16QAM	709	50				0	20	3.27	-7.811	-0.0110	-2.5 to 2.5	Pass
				3.85	-3.161	-0.0044			-2.5 to 2.5	Pass			
				4.43	-7.038	-0.0099			-2.5 to 2.5	Pass			
				711	50	0		-30	3.85	-9.441	-0.0133	-2.5 to 2.5	Pass
									-20	3.85	-7.882	-0.0111	-2.5 to 2.5
3.85										-6.409	-0.0090	-2.5 to 2.5	Pass
0								3.85		-8.254	-0.0116	-2.5 to 2.5	Pass
								10	3.85	-7.582	-0.0107	-2.5 to 2.5	Pass
									3.85	-4.864	-0.0068	-2.5 to 2.5	Pass
3.85	-6.237	-0.0088	-2.5 to 2.5				Pass						
3.85	-6.995	-0.0098	-2.5 to 2.5				Pass						
709	50	0	20				3.27	-5.364	-0.0076	-2.5 to 2.5	Pass		
				3.85	-7.167	-0.0101	-2.5 to 2.5	Pass					
				4.43	-7.453	-0.0105	-2.5 to 2.5	Pass					
			-30	3.85	-4.706	-0.0066	-2.5 to 2.5	Pass					
				3.85	-5.794	-0.0082	-2.5 to 2.5	Pass					
				3.85	-7.668	-0.0108	-2.5 to 2.5	Pass					
3.85	-5.422	-0.0076	-2.5 to 2.5	Pass									
3.85	-4.449	-0.0063	-2.5 to 2.5	Pass									
3.85	-8.054	-0.0114	-2.5 to 2.5	Pass									

	710	50	0	40	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-6.680	-0.0094	-2.5 to 2.5	Pass
				20	3.27	-3.934	-0.0055	-2.5 to 2.5	Pass
					3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
					4.43	-4.749	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-6.566	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-5.436	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-4.134	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
				10	3.85	-6.294	-0.0089	-2.5 to 2.5	Pass
	30	3.85	-5.150	-0.0073	-2.5 to 2.5	Pass			
	40	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass			
	50	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass			
	711	50	0	20	3.27	-3.147	-0.0044	-2.5 to 2.5	Pass
					3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
					4.43	-6.852	-0.0096	-2.5 to 2.5	Pass
				-30	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-7.682	-0.0108	-2.5 to 2.5	Pass
				-10	3.85	-7.424	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-9.270	-0.0130	-2.5 to 2.5	Pass
10				3.85	-5.536	-0.0078	-2.5 to 2.5	Pass	
30				3.85	-9.241	-0.0130	-2.5 to 2.5	Pass	
40				3.85	-4.735	-0.0067	-2.5 to 2.5	Pass	
50	3.85	-5.550	-0.0078	-2.5 to 2.5	Pass				

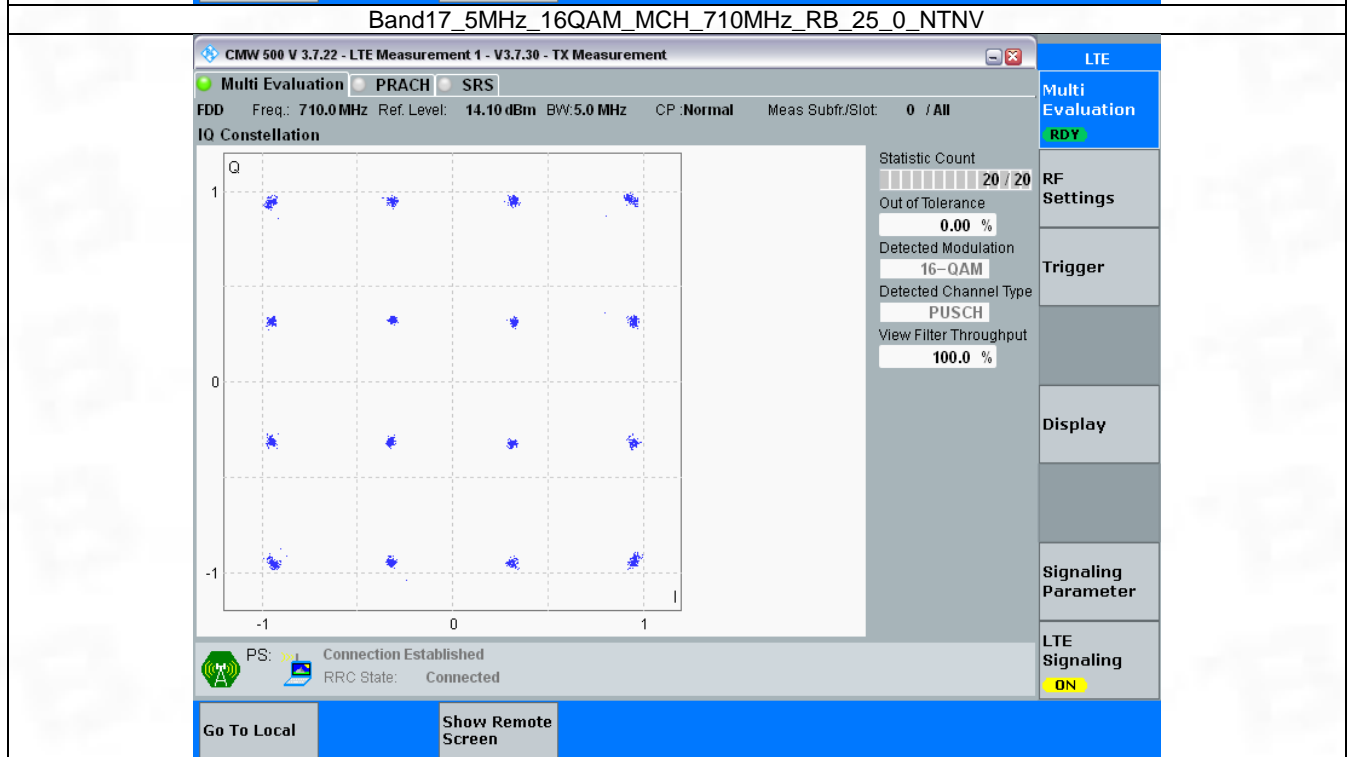
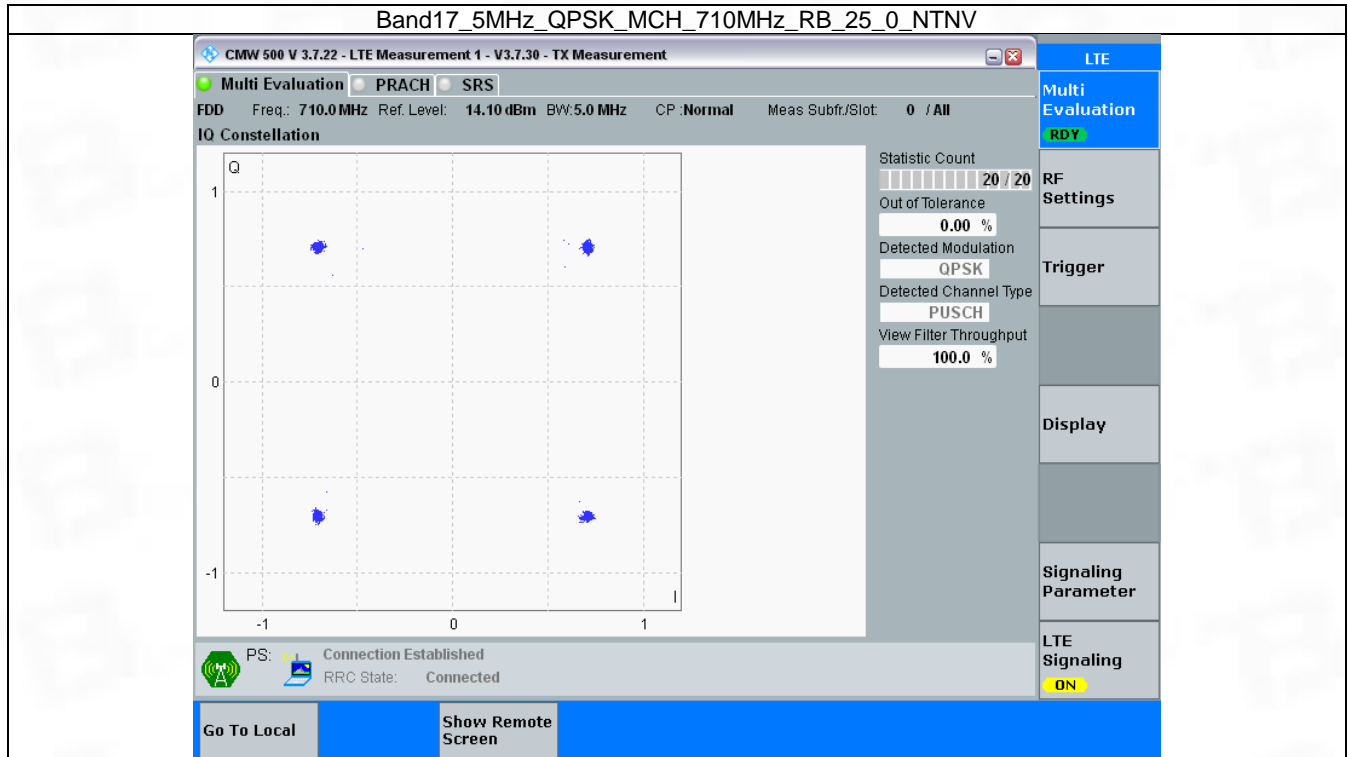
### 3. Modulation Characteristics

#### 3.1 B17\_5MHz

##### 3.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

### 3.1.2 Test Graph

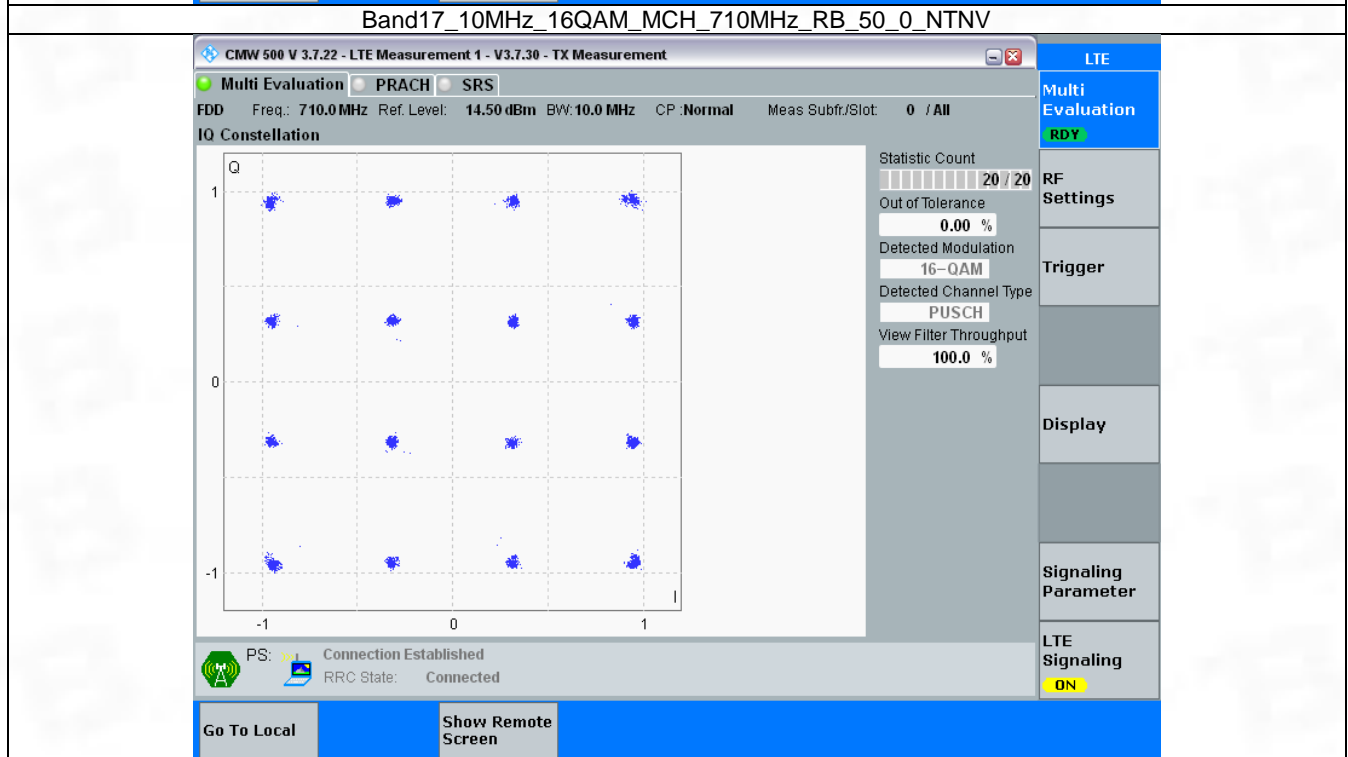
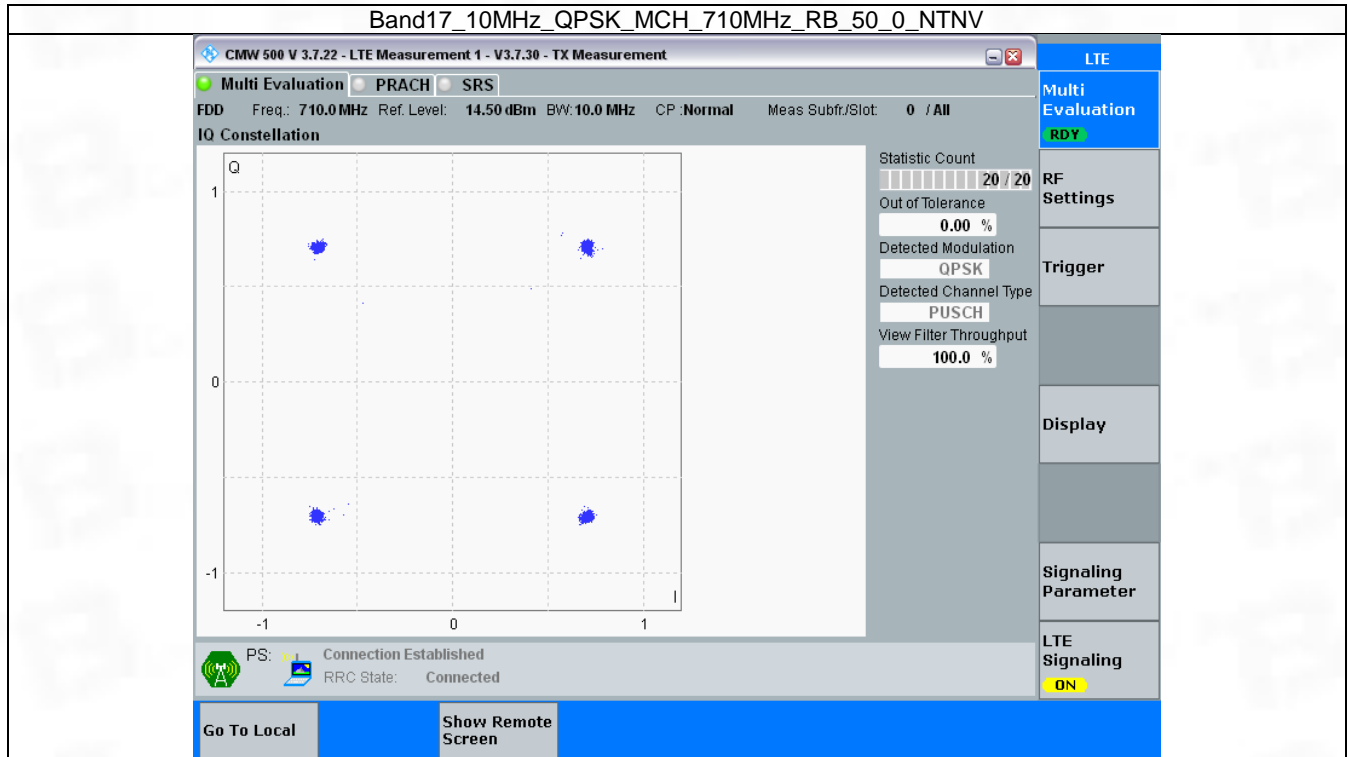


### 3.2 B17\_10MHz

#### 3.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

### 3.2.2 Test Graph





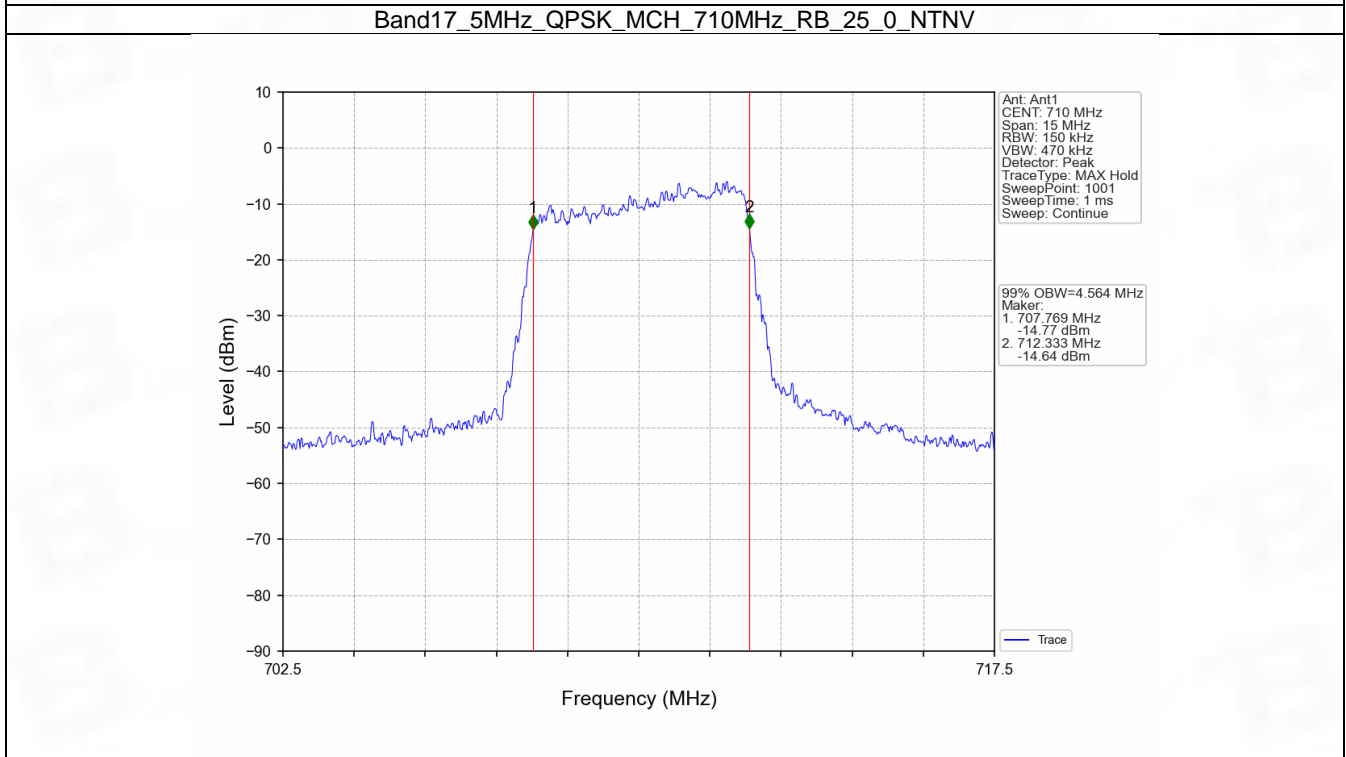
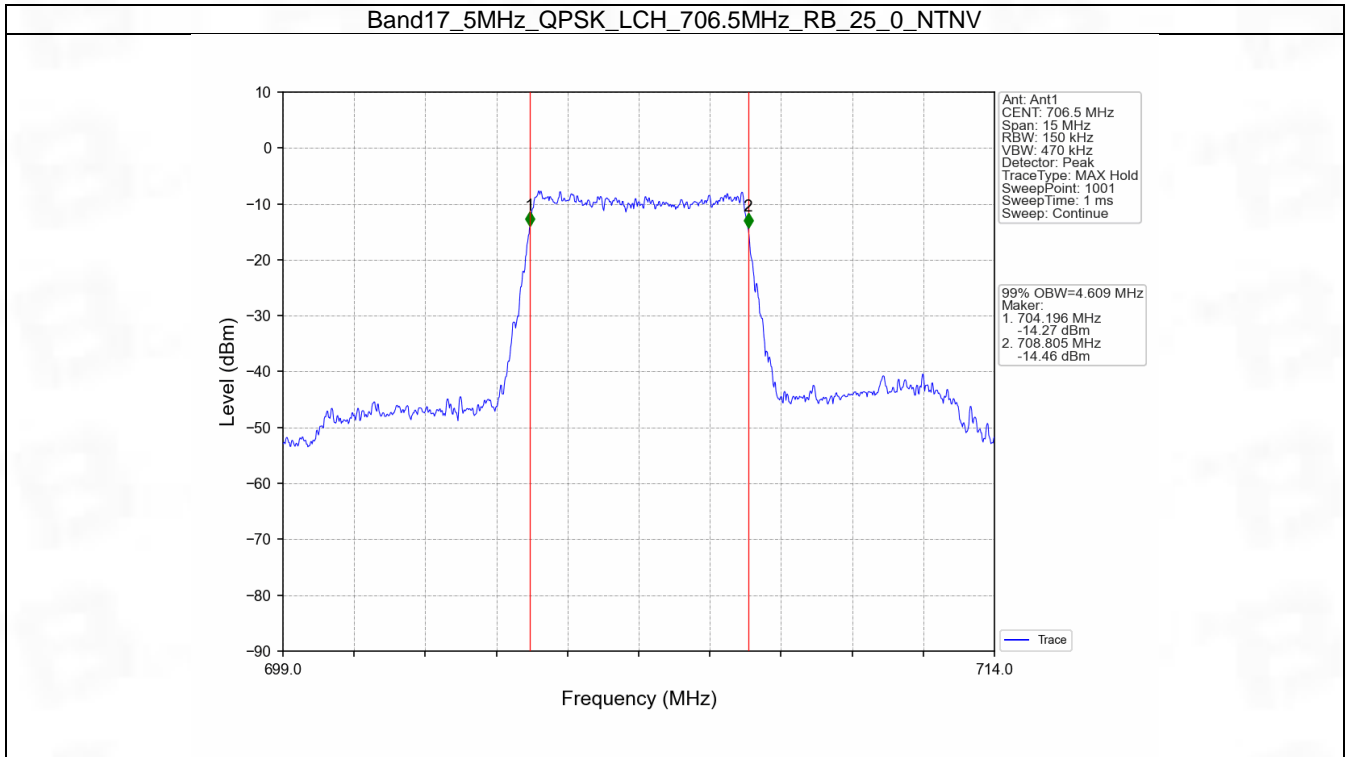
## 4. 99% & 26dB Bandwidth

### 4.1 Band17\_OBW

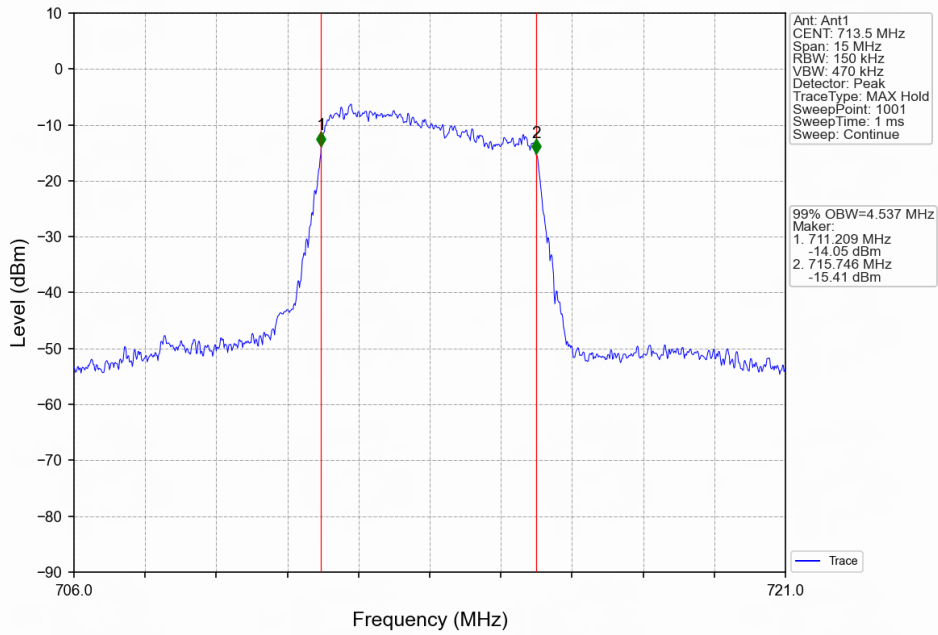
#### 4.1.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.609	/	Pass
		710	25	0	4.564	/	Pass
		713.5	25	0	4.537	/	Pass
	16QAM	706.5	25	0	4.619	/	Pass
		710	25	0	4.541	/	Pass
		713.5	25	0	4.526	/	Pass
10	QPSK	709	50	0	9.066	/	Pass
		710	50	0	8.955	/	Pass
		711	50	0	8.935	/	Pass
	16QAM	709	50	0	9.056	/	Pass
		710	50	0	8.972	/	Pass
		711	50	0	8.899	/	Pass

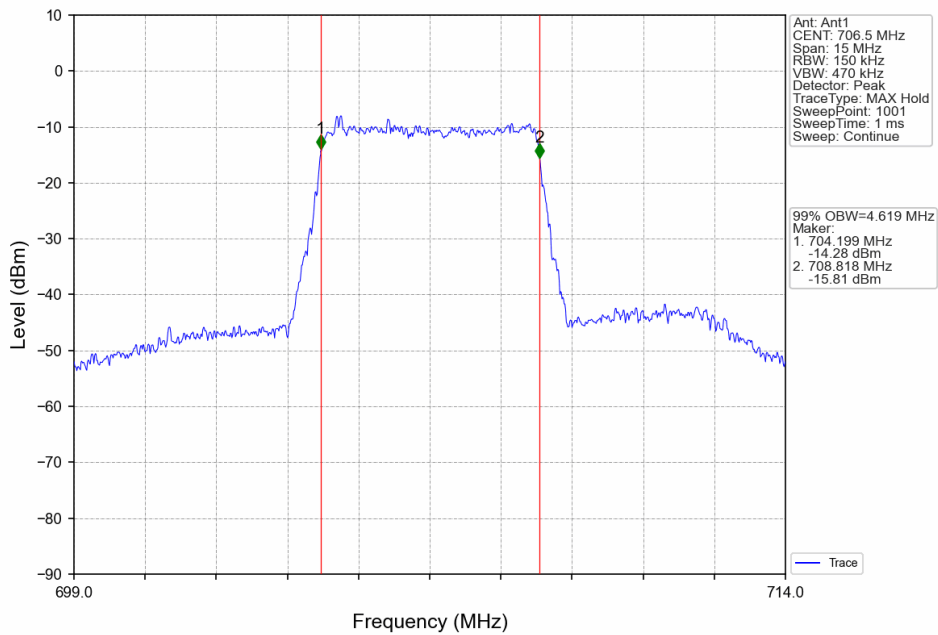
### 4.1.2 Test Graph



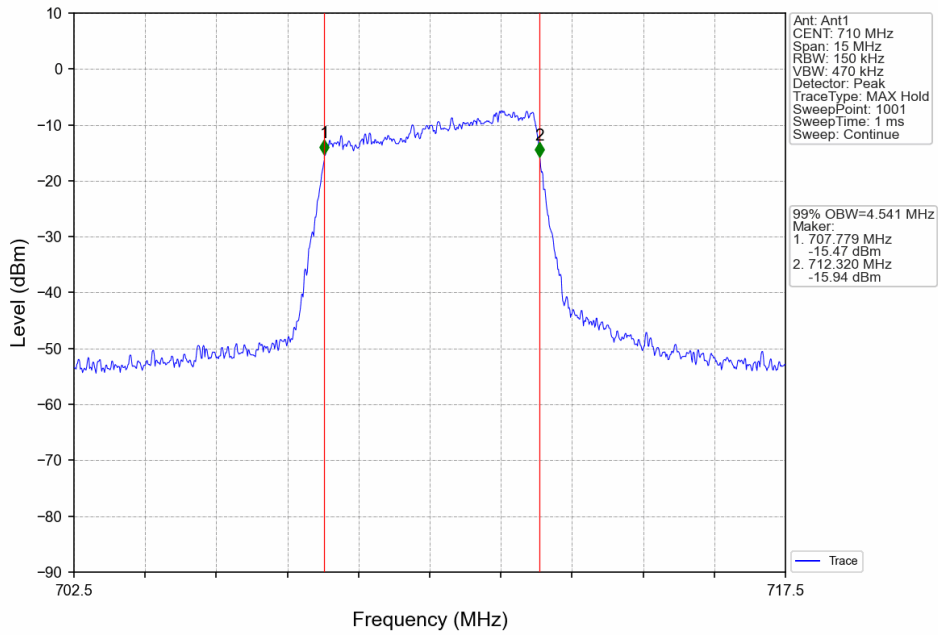
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



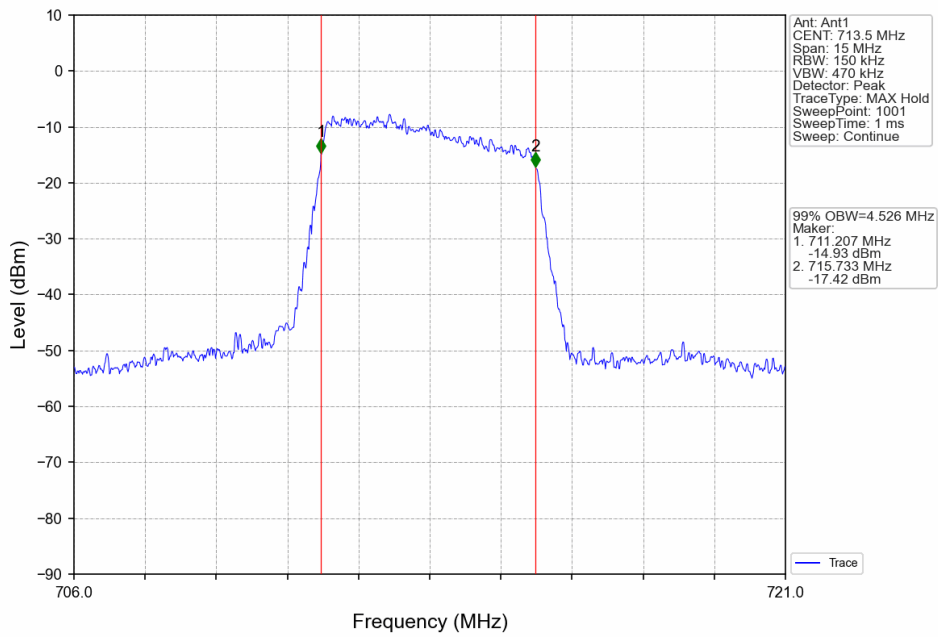
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



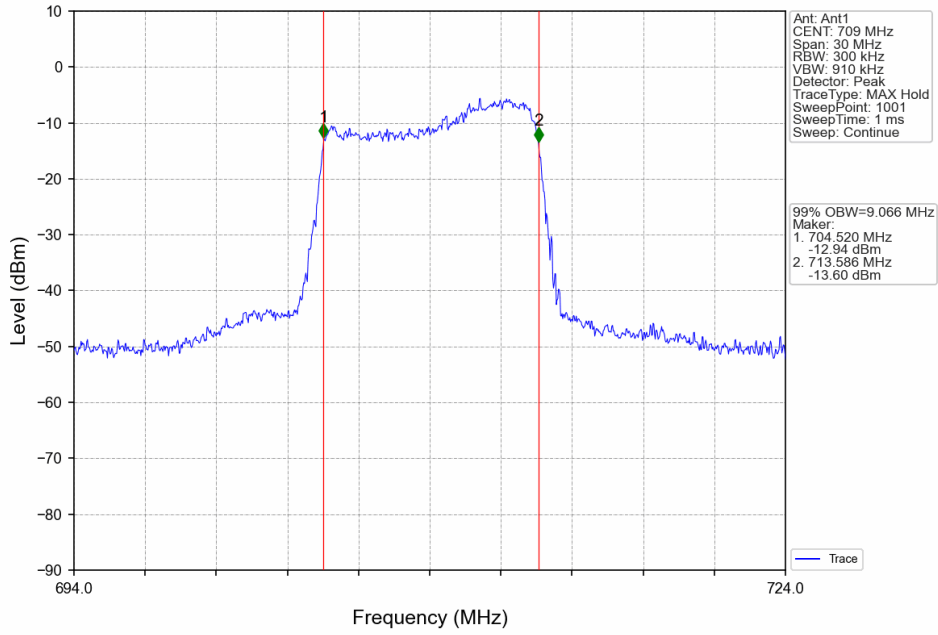
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



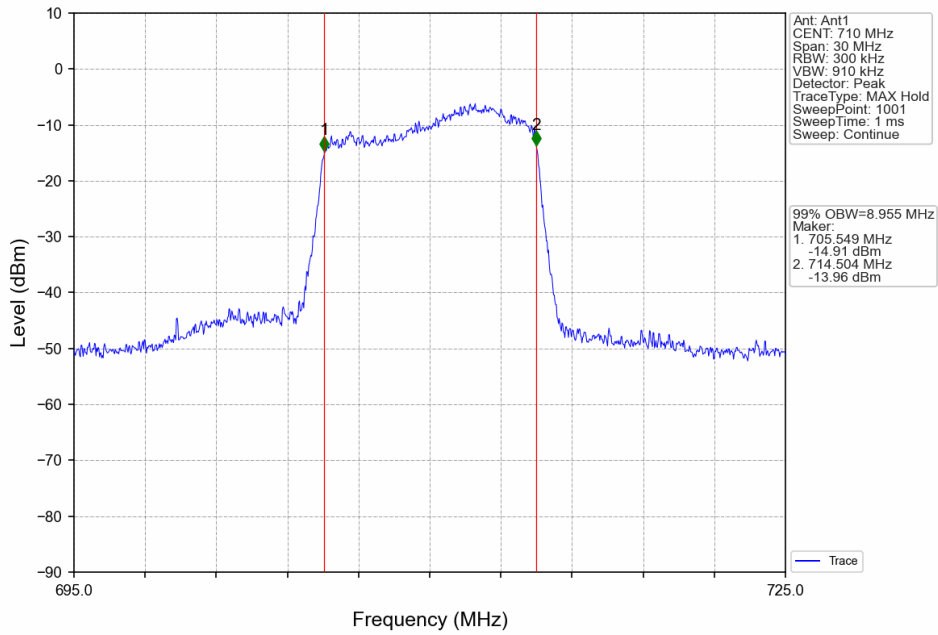
Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



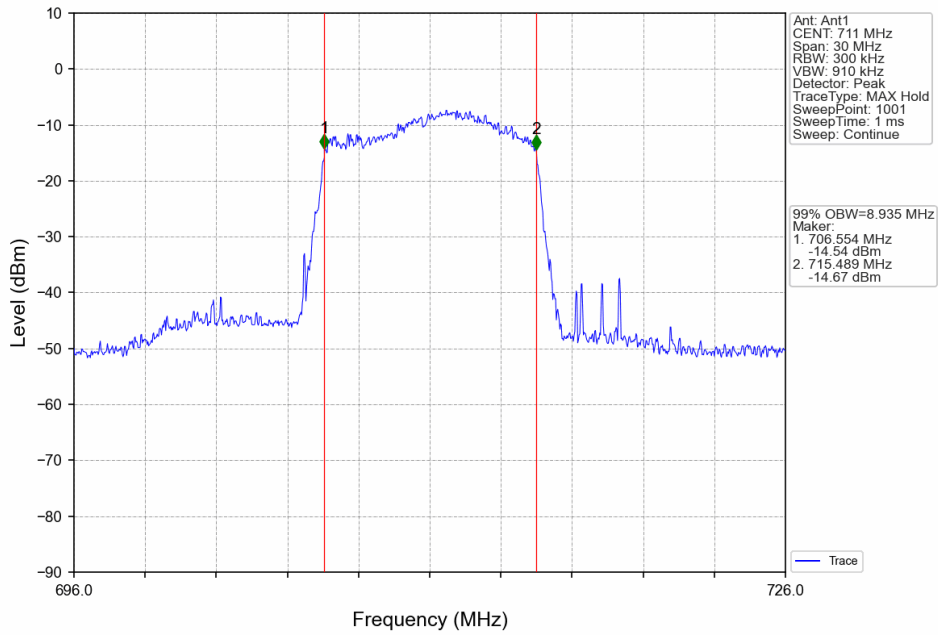
Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



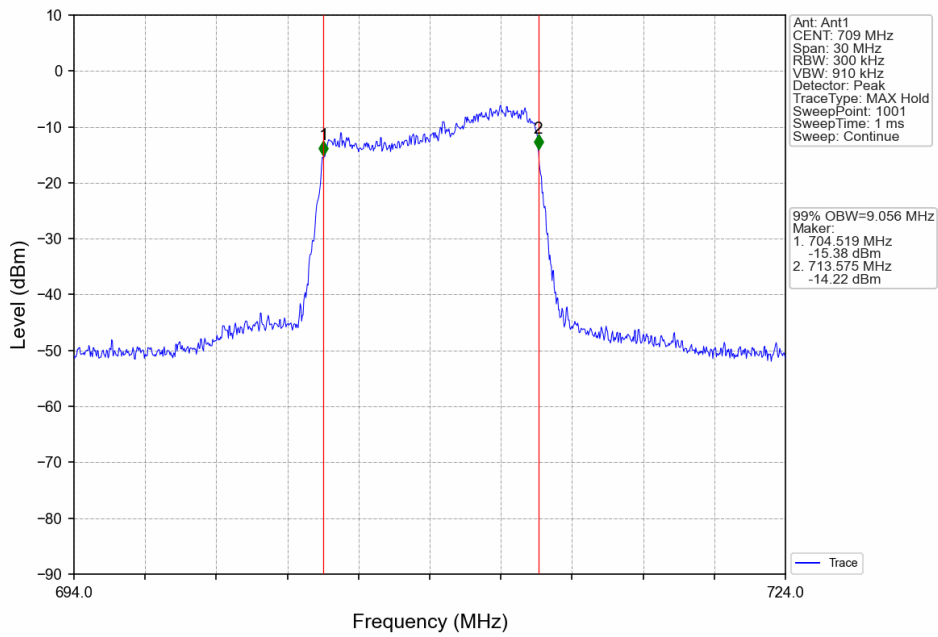
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV



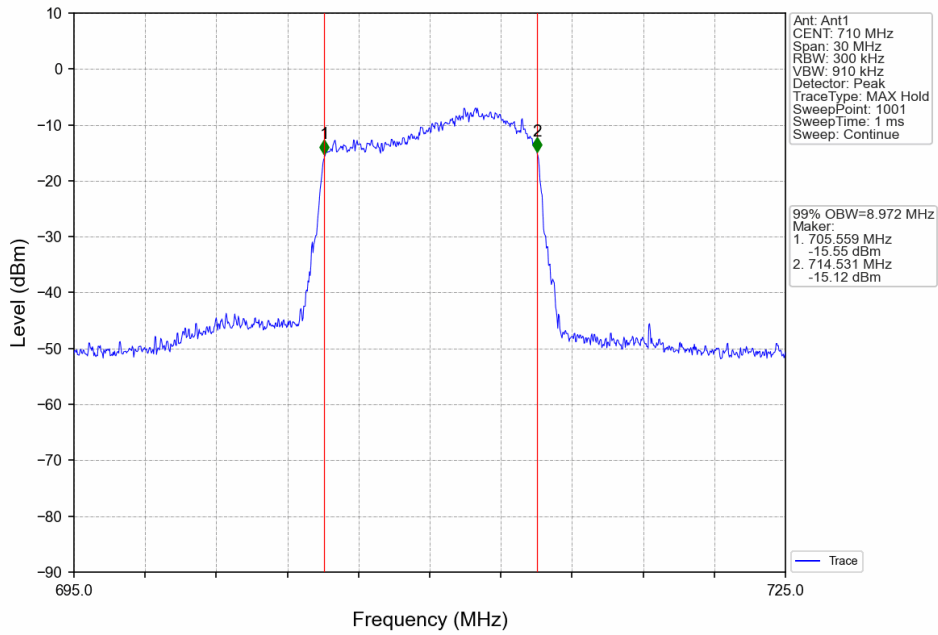
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



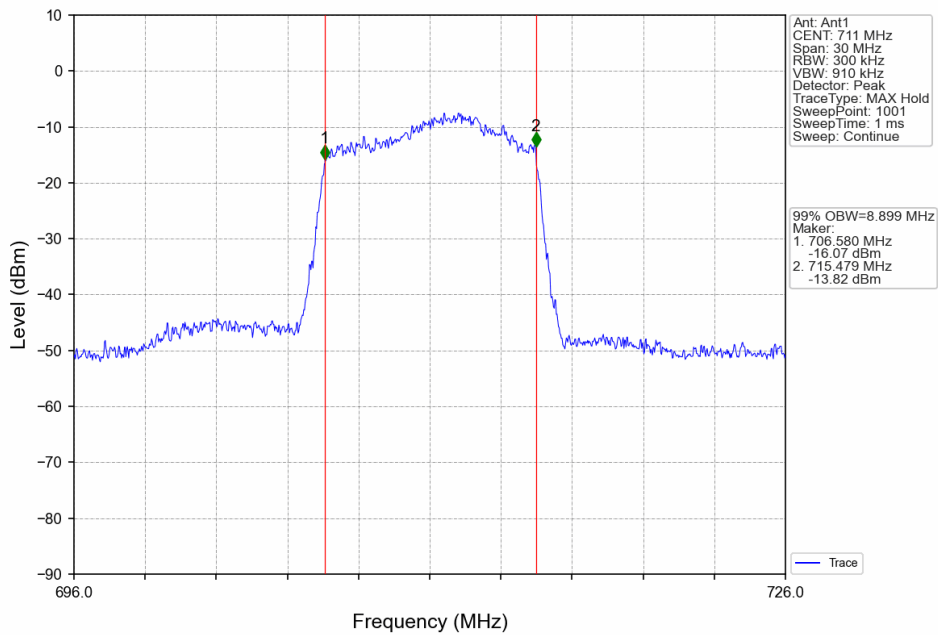
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



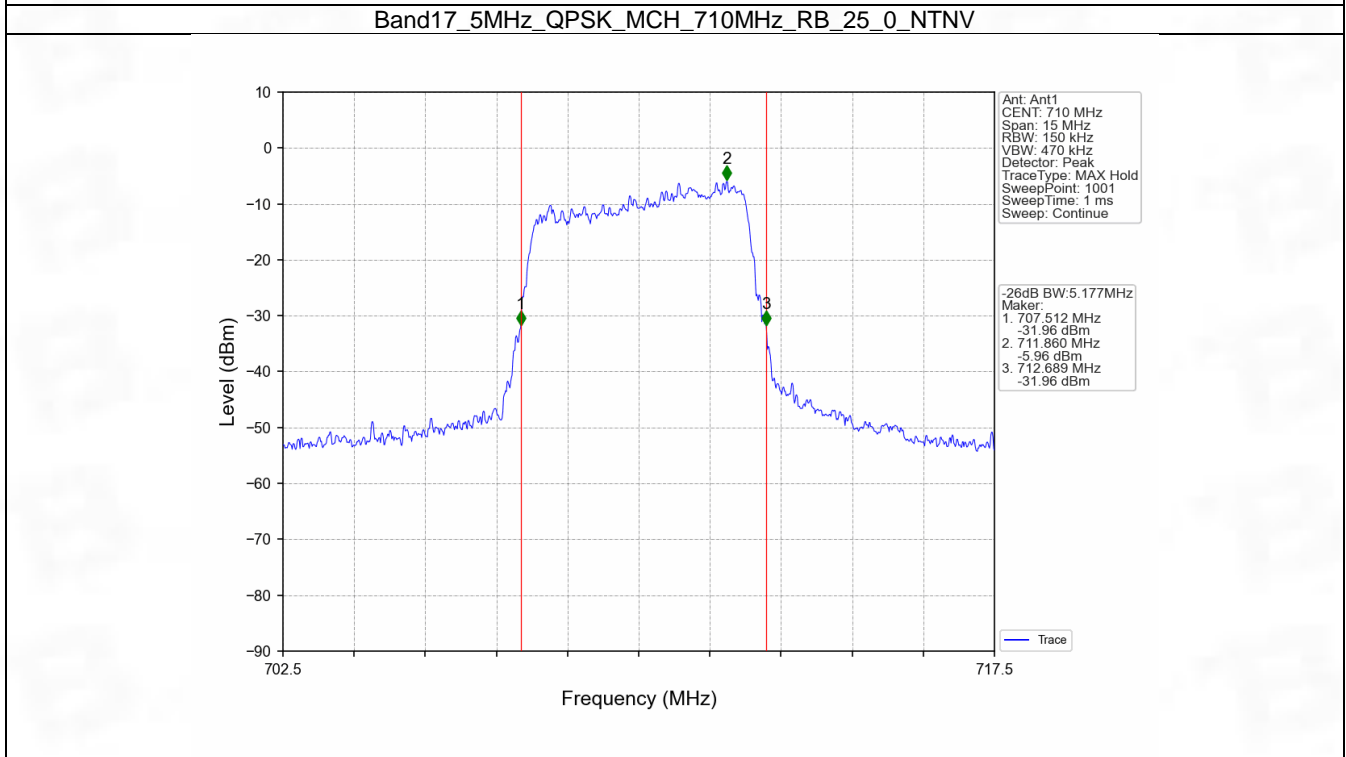
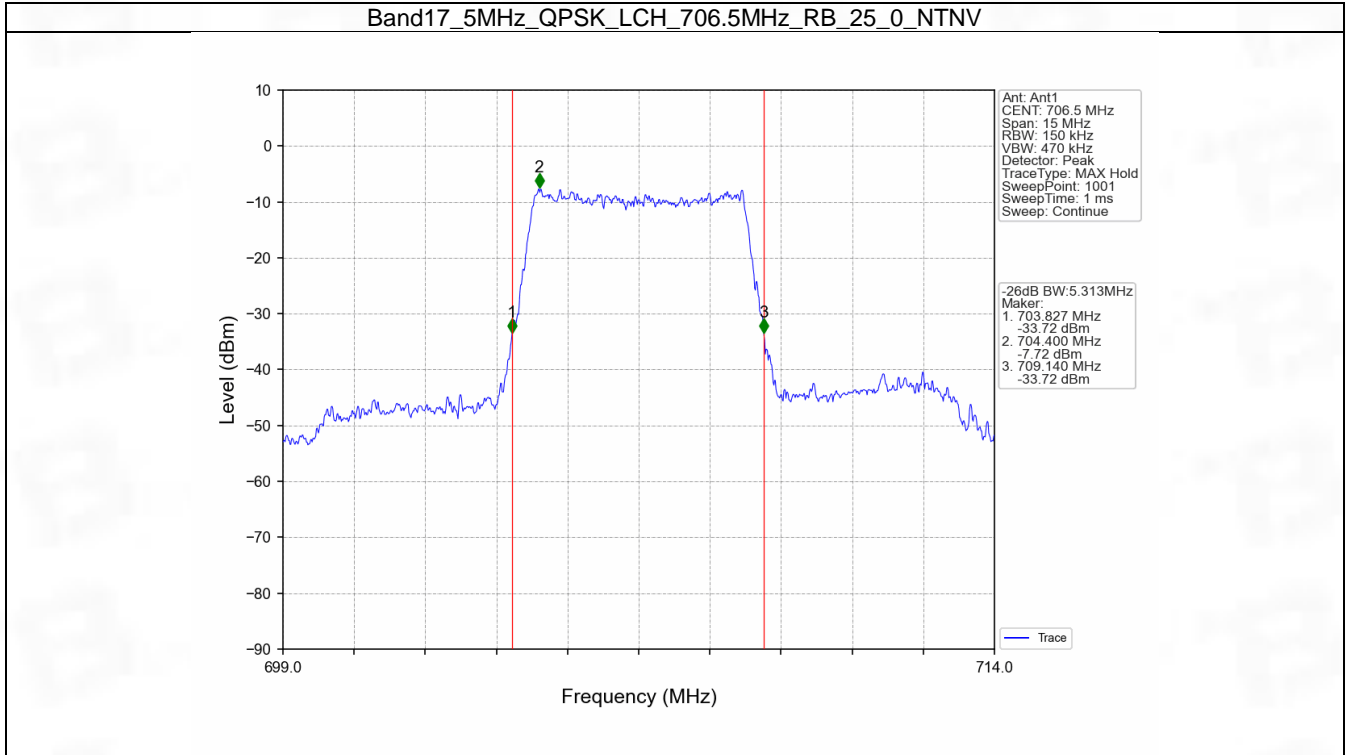
## 4.2 Band17\_XDB

### 4.2.1 Test Result

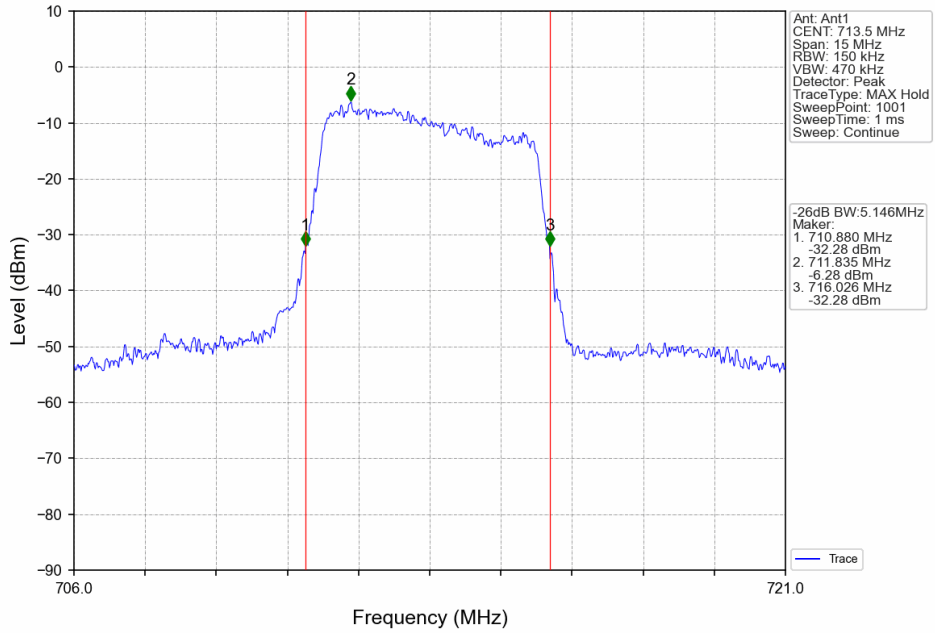
Band: 17 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.313	/	Pass
		710	25	0	5.177	/	Pass
		713.5	25	0	5.146	/	Pass
	16QAM	706.5	25	0	5.332	/	Pass
		710	25	0	5.209	/	Pass
		713.5	25	0	5.131	/	Pass
10	QPSK	709	50	0	10.165	/	Pass
		710	50	0	9.921	/	Pass
		711	50	0	10.296	/	Pass
	16QAM	709	50	0	10.000	/	Pass
		710	50	0	9.987	/	Pass
		711	50	0	9.896	/	Pass



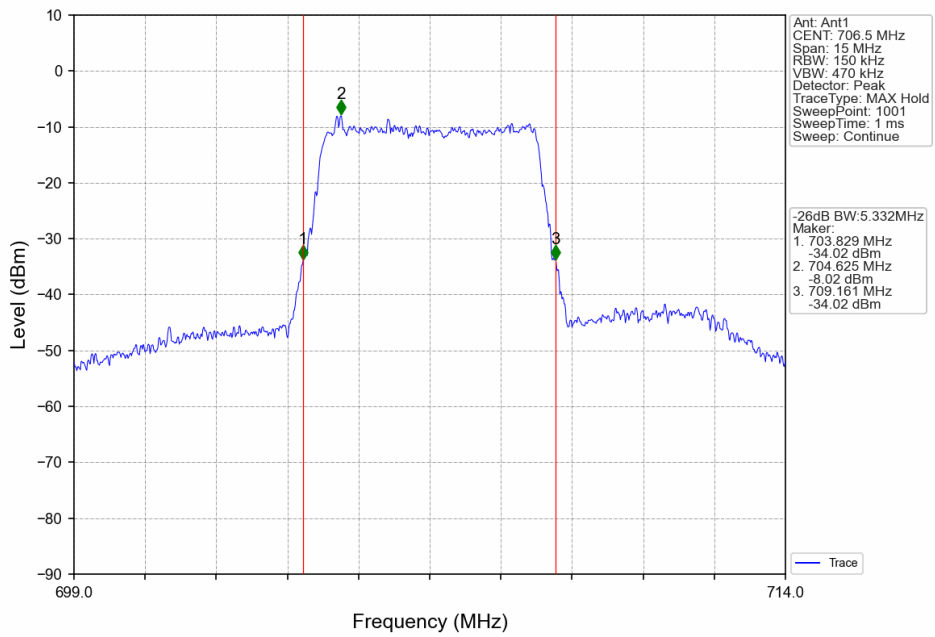
## 4.2.2 Test Graph



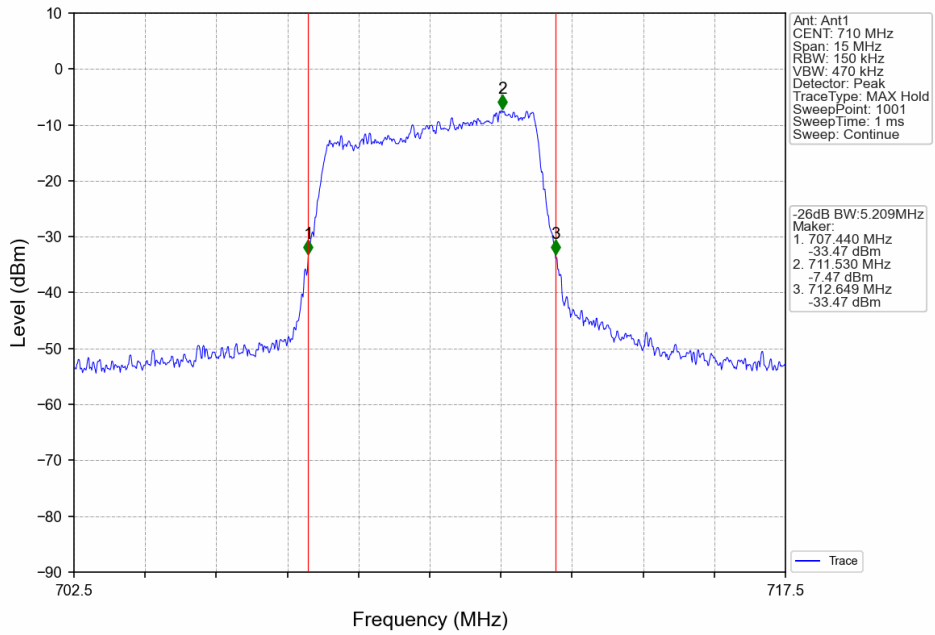
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



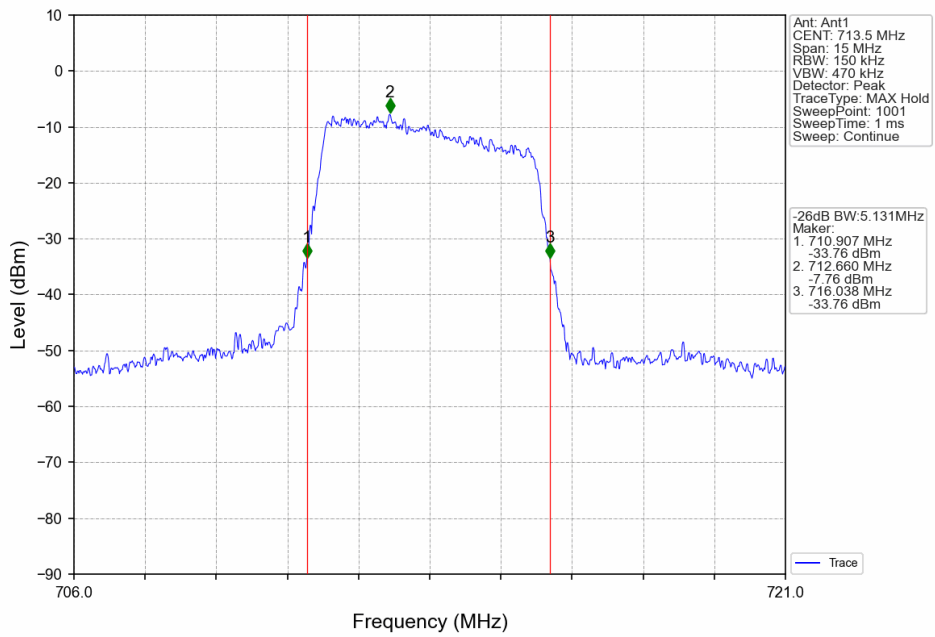
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



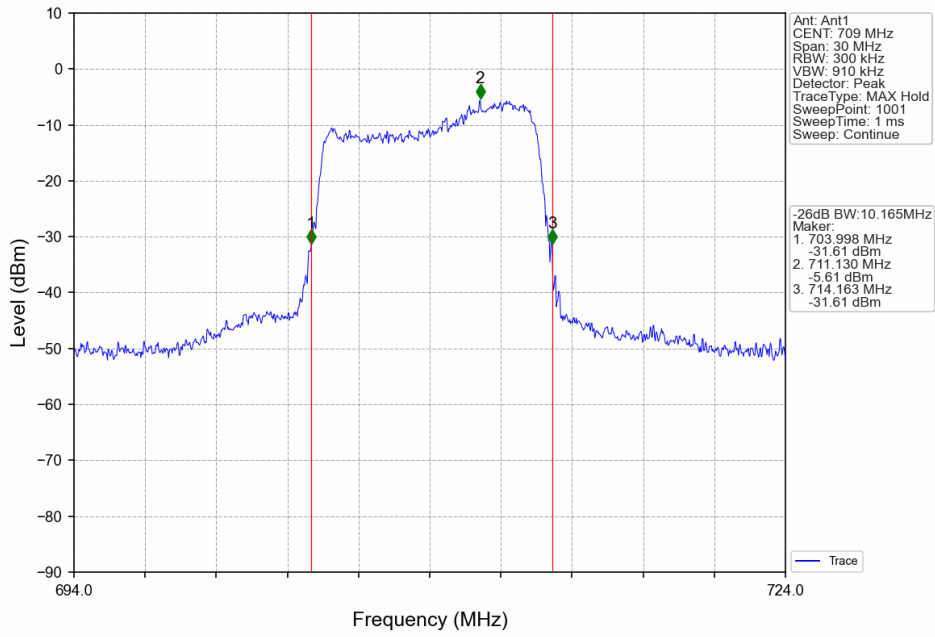
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



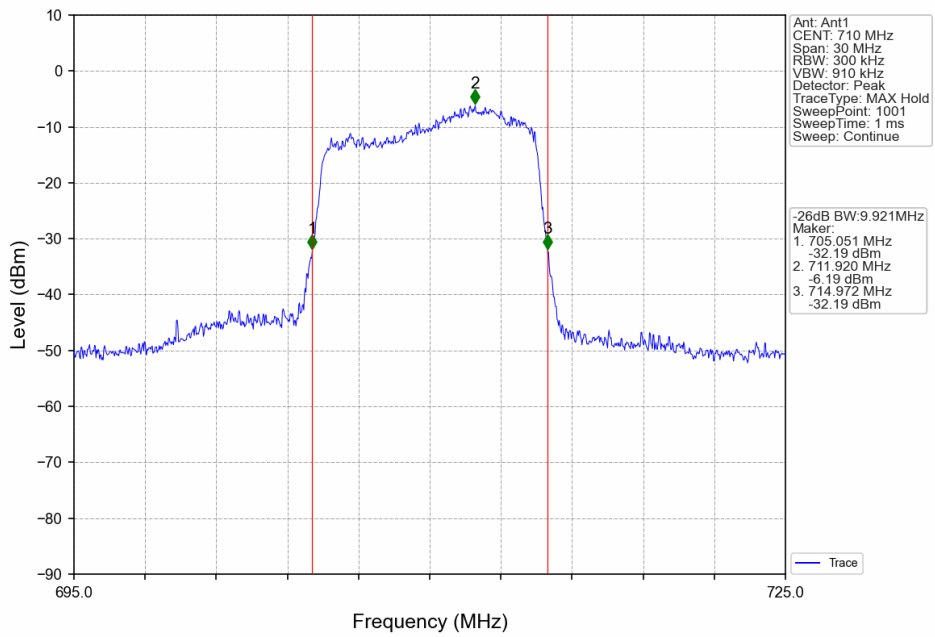
Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



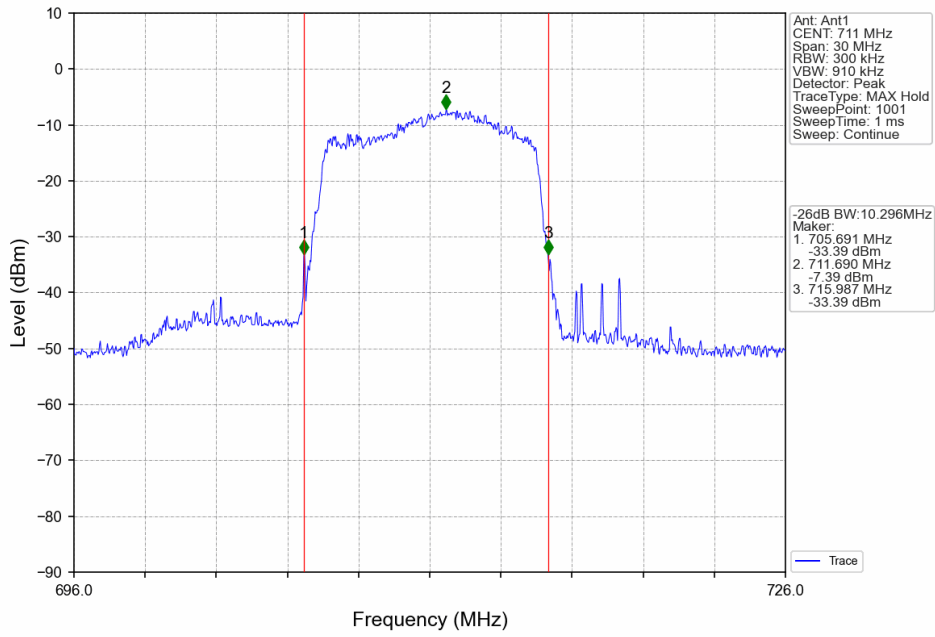
Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



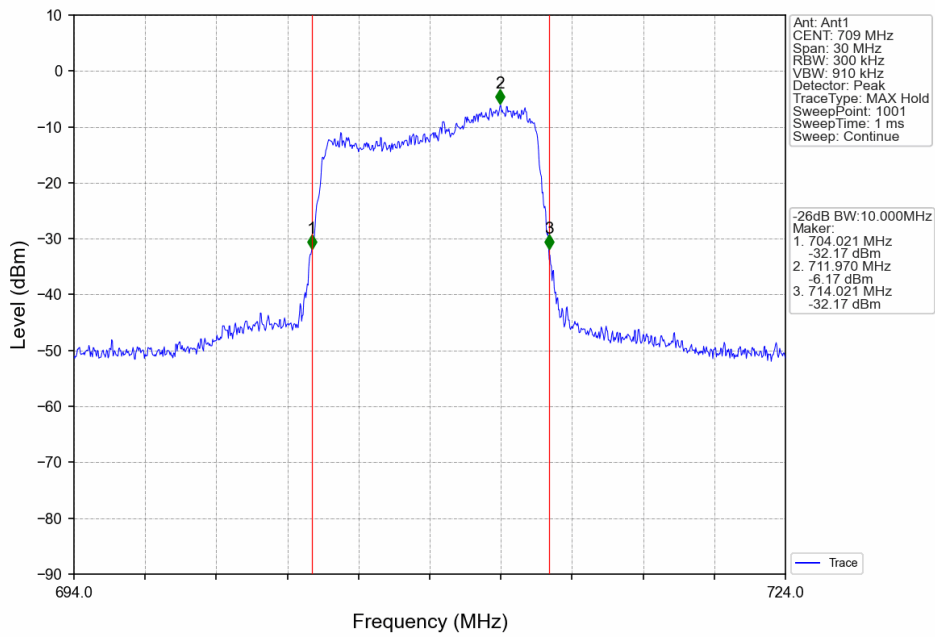
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_50\_0\_NTNV



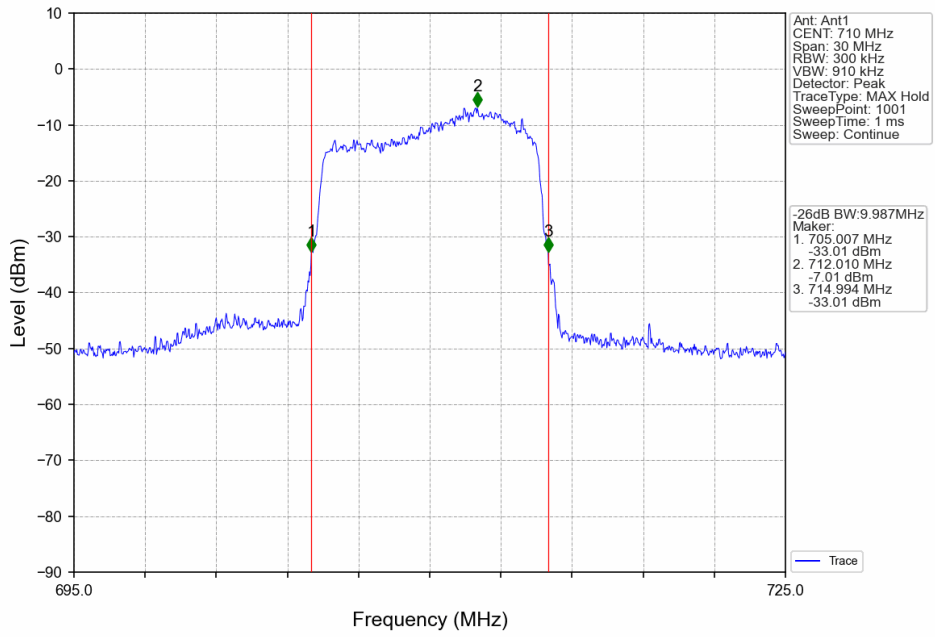
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



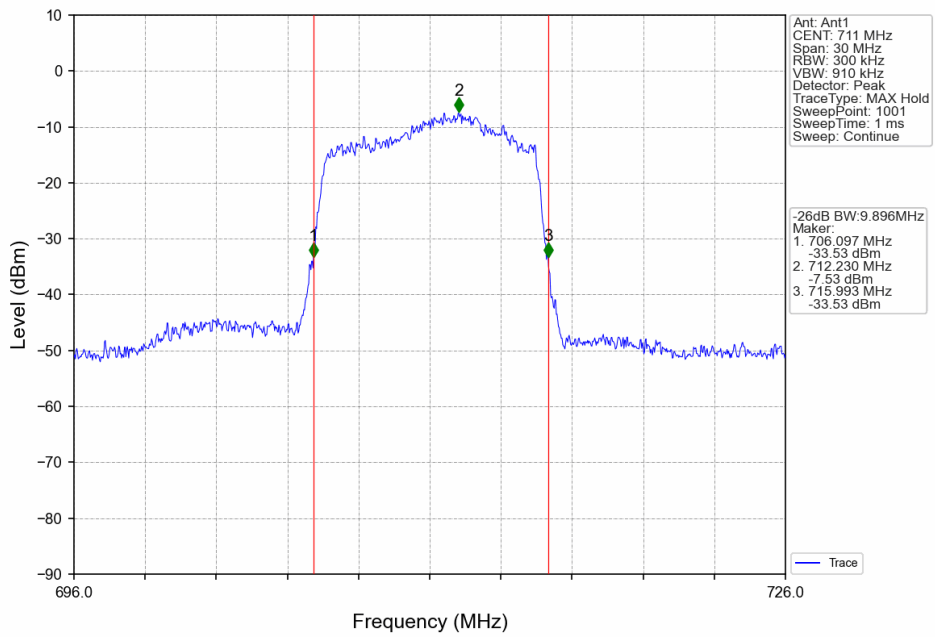
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



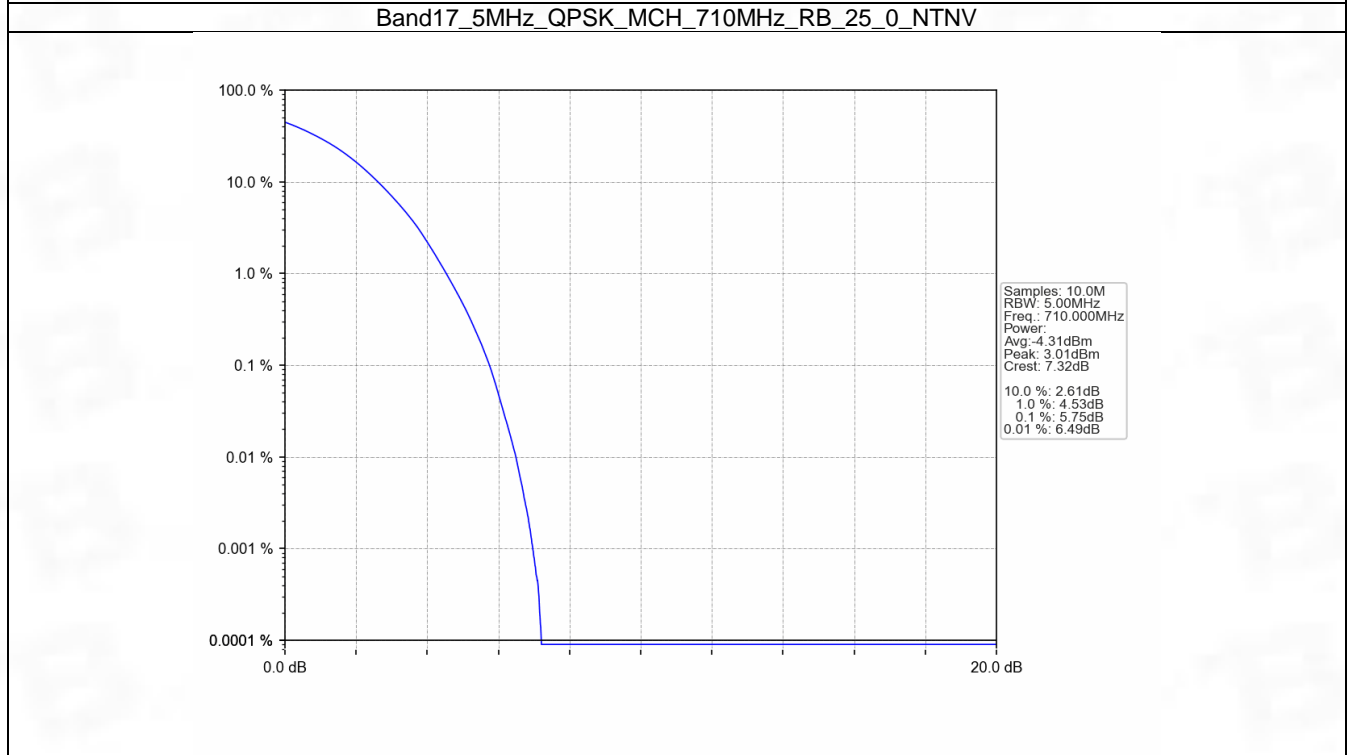
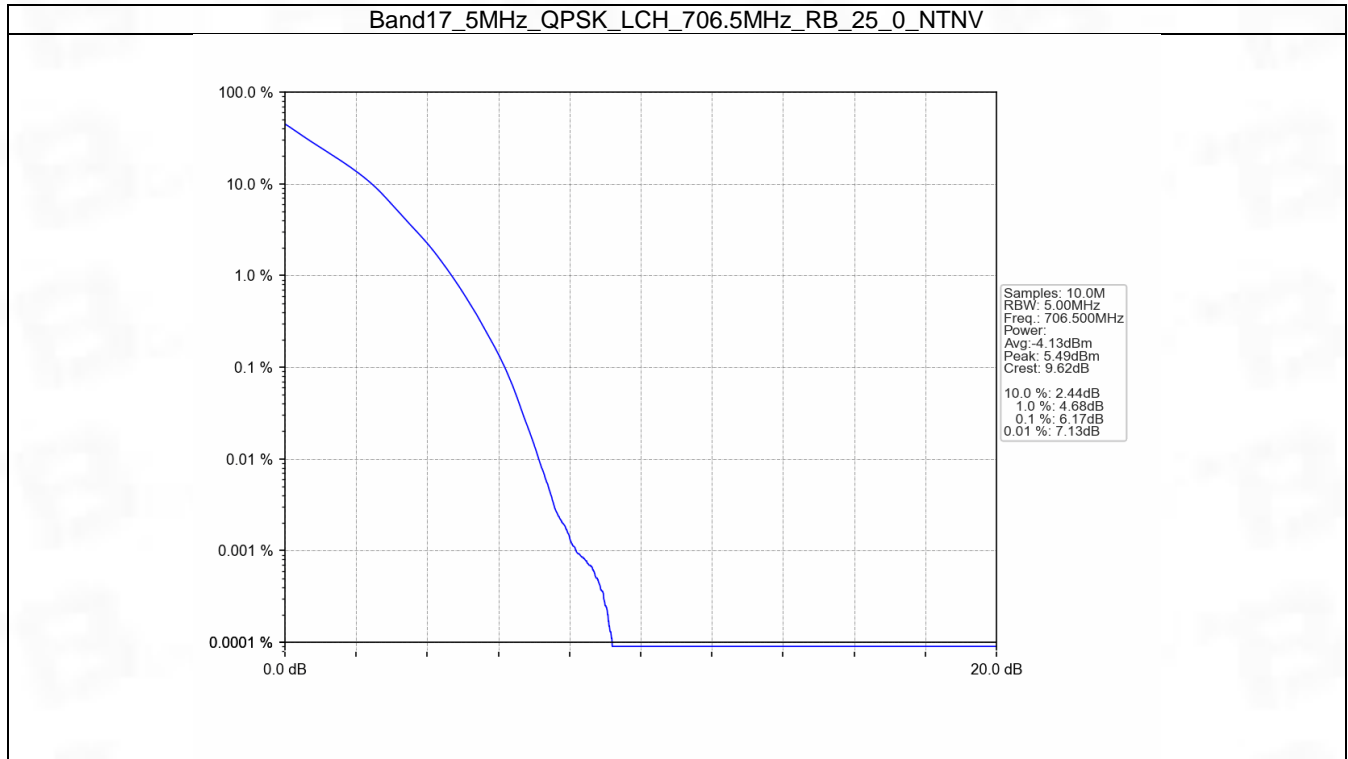
## 5. Peak-Average Ratio

### 5.1 B17\_5MHz

#### 5.1.1 Test Result

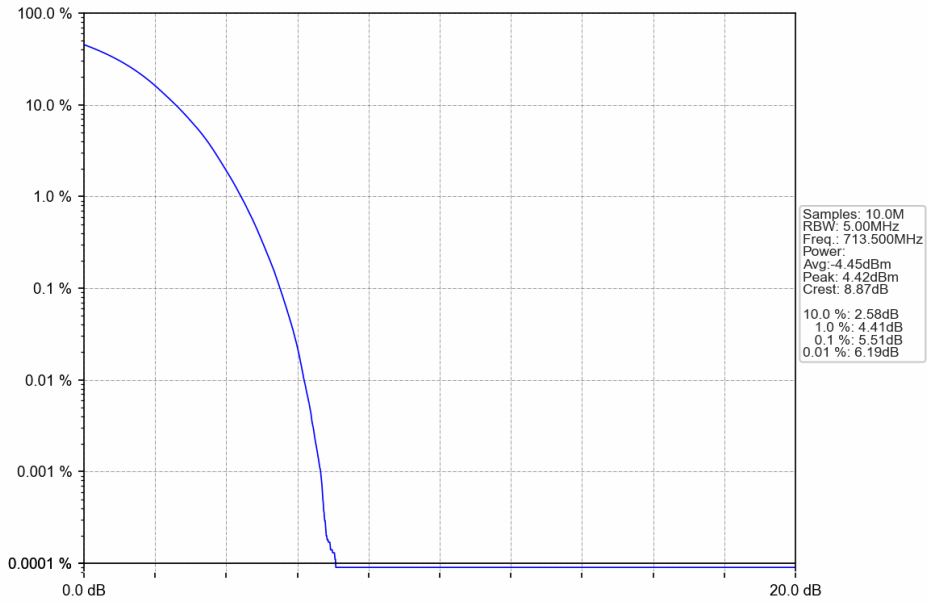
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	6.17	<=13	Pass
	710	25	0	5.75	<=13	Pass
	713.5	25	0	5.51	<=13	Pass
16QAM	706.5	25	0	6.72	<=13	Pass
	710	25	0	6.43	<=13	Pass
	713.5	25	0	6.31	<=13	Pass

### 5.1.2 Test Graph

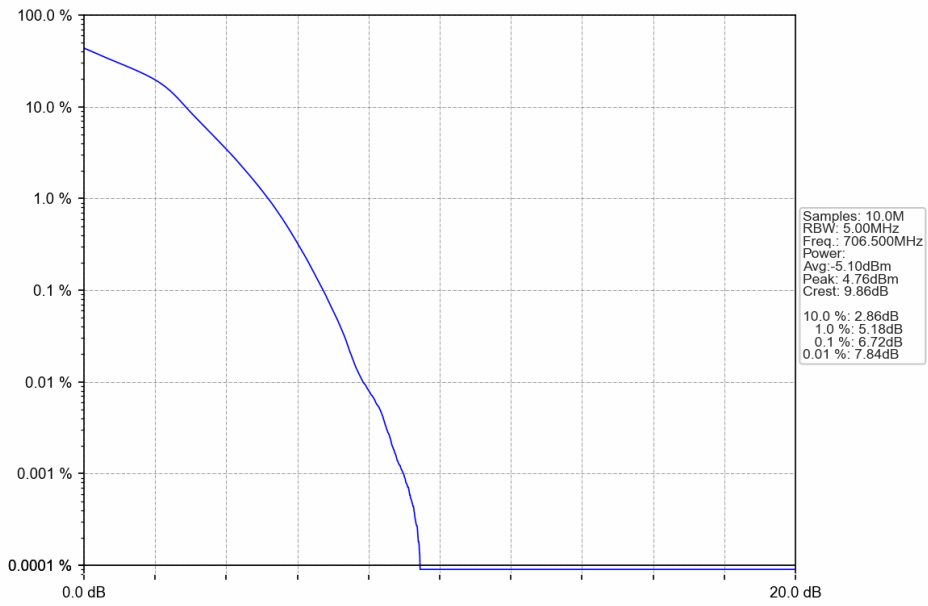




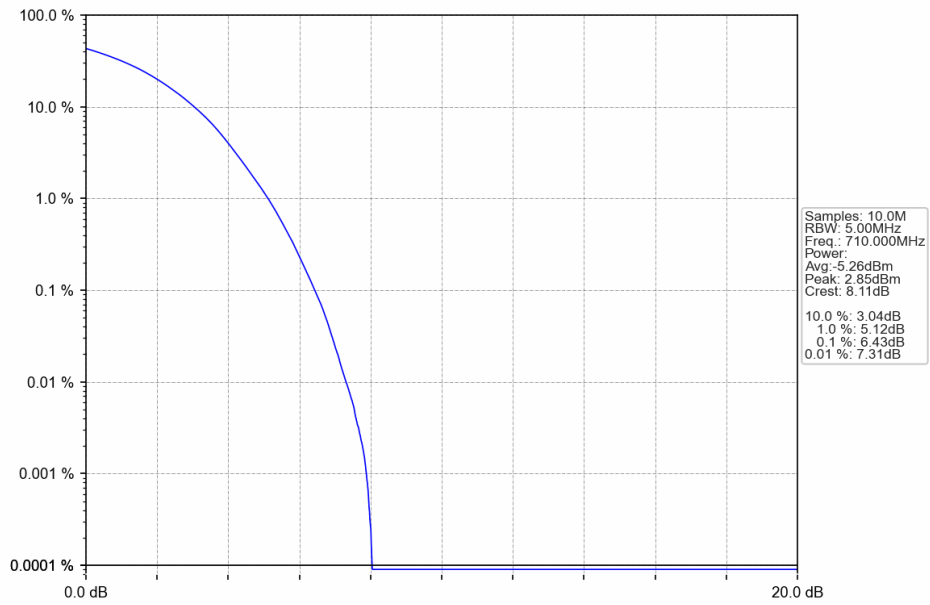
Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



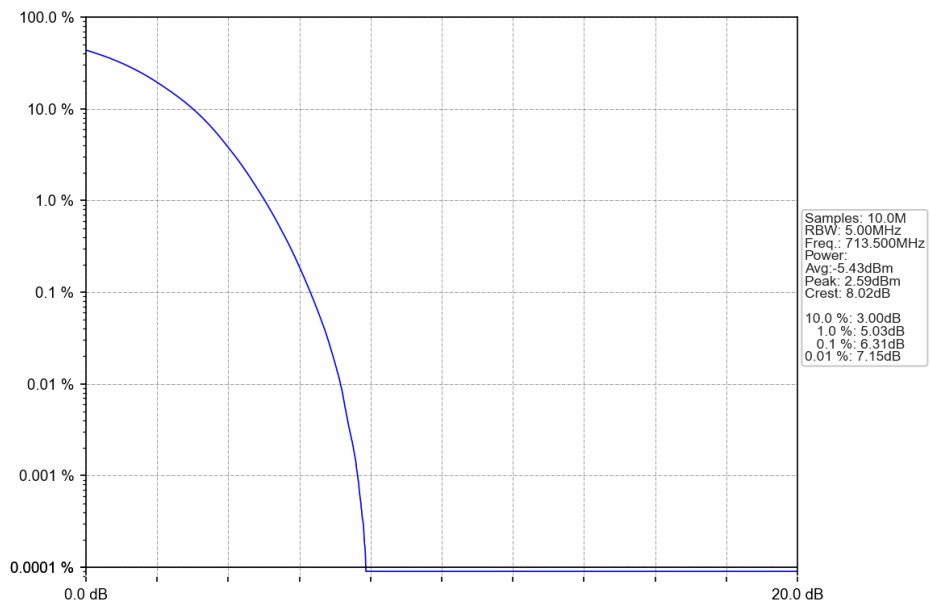
Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

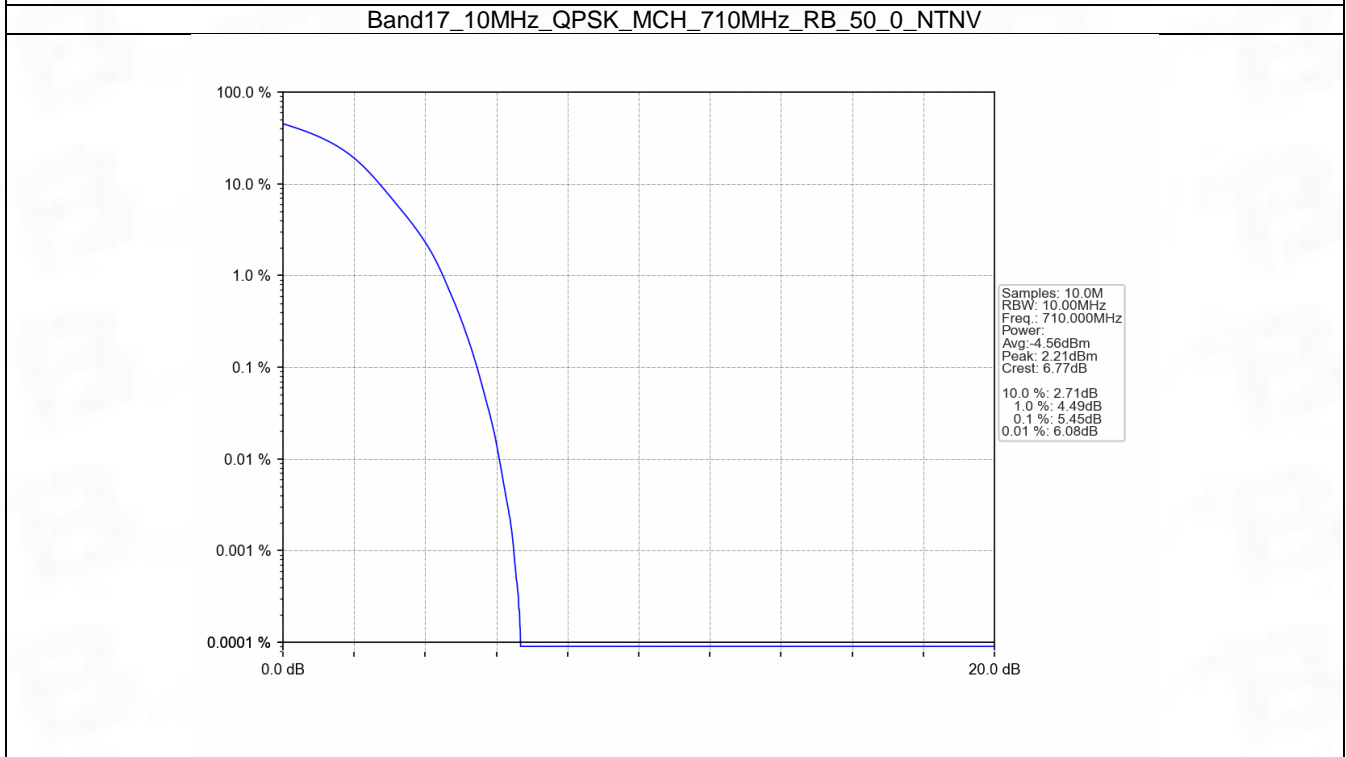
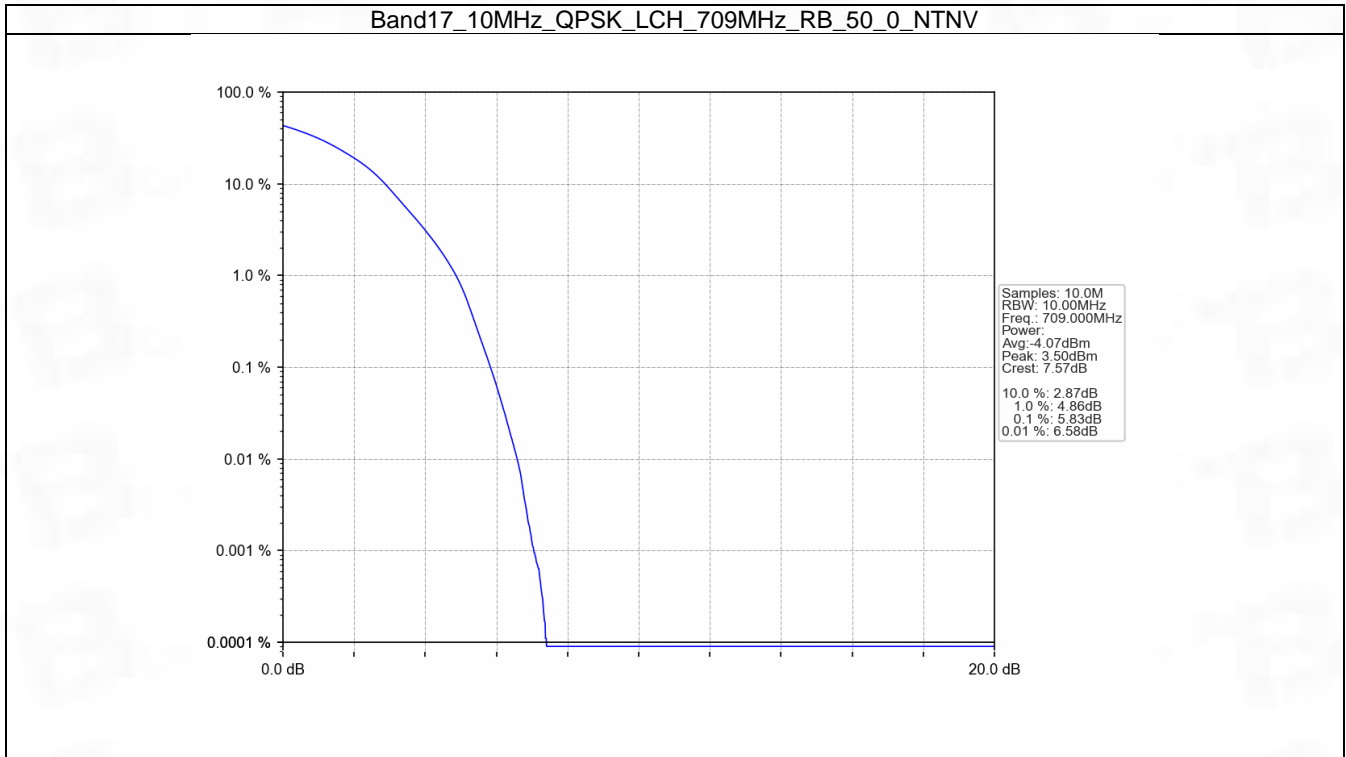


## 5.2 B17\_10MHz

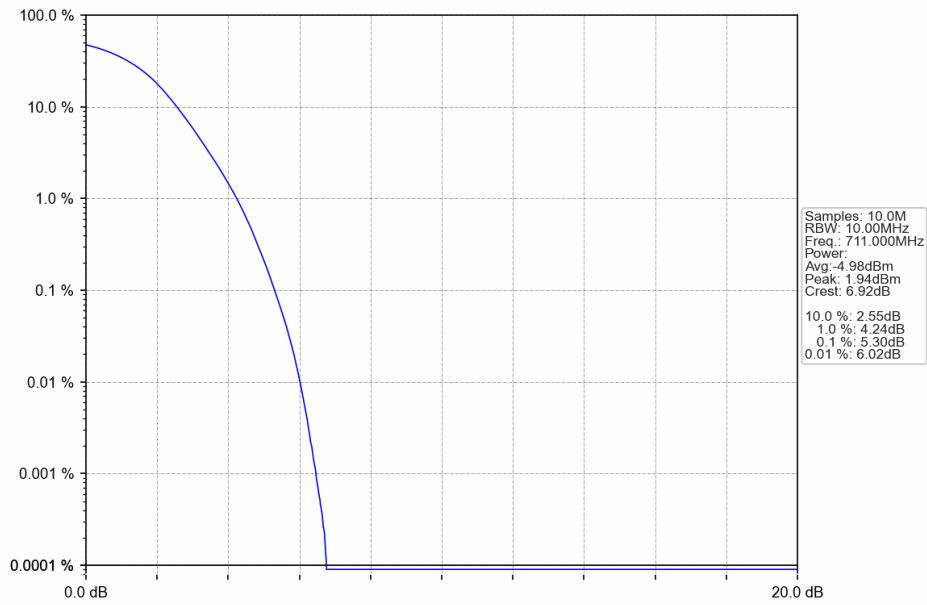
### 5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.83	<=13	Pass
	710	50	0	5.45	<=13	Pass
	711	50	0	5.30	<=13	Pass
16QAM	709	50	0	6.60	<=13	Pass
	710	50	0	6.37	<=13	Pass
	711	50	0	6.17	<=13	Pass

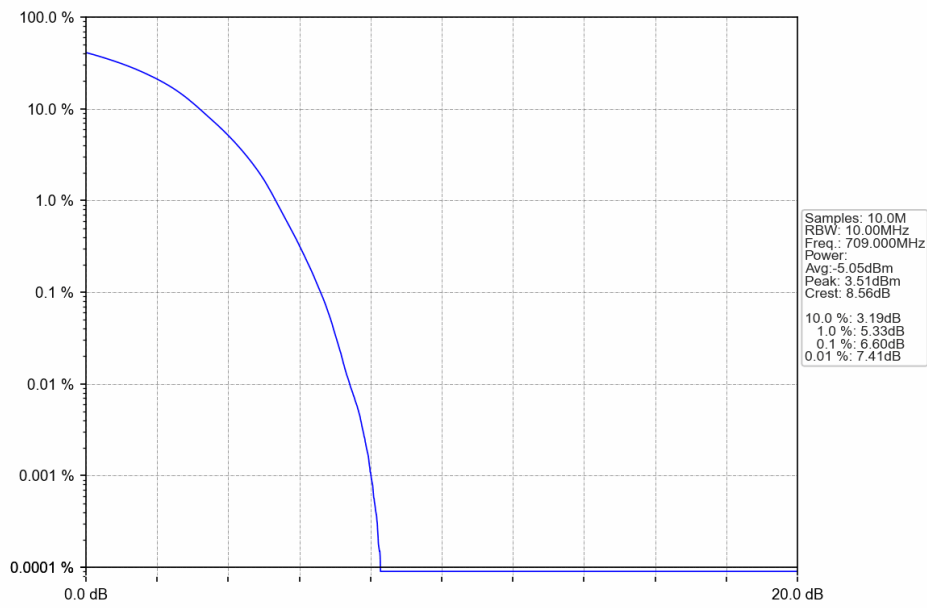
## 5.2.2 Test Graph



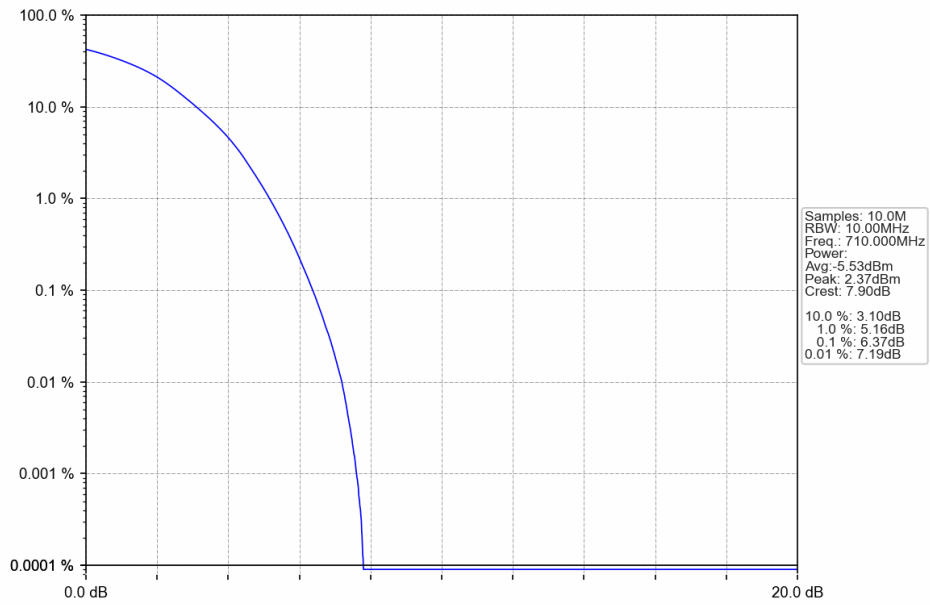
Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



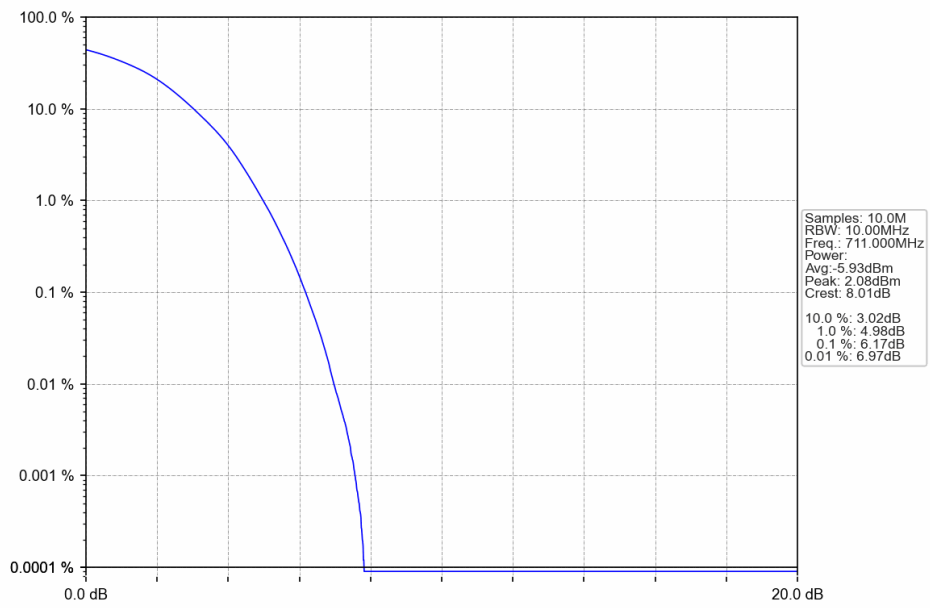
Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



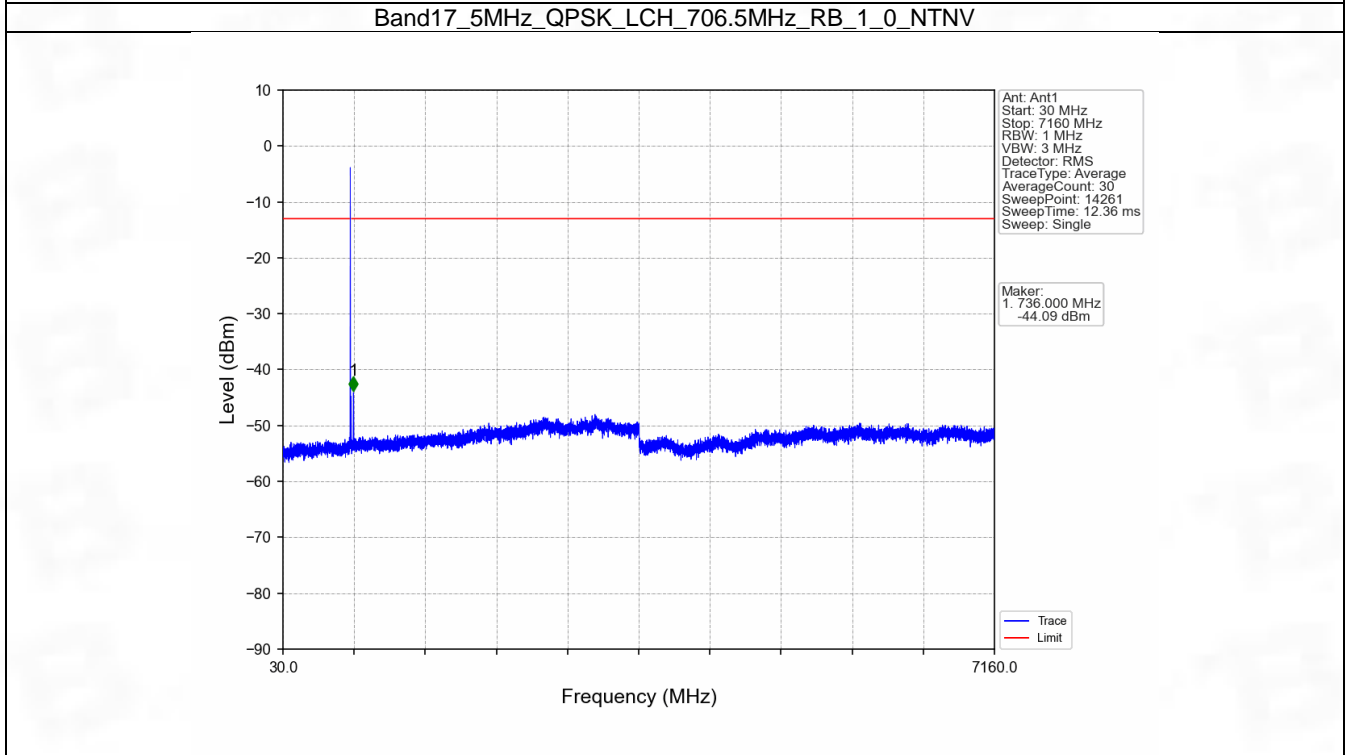
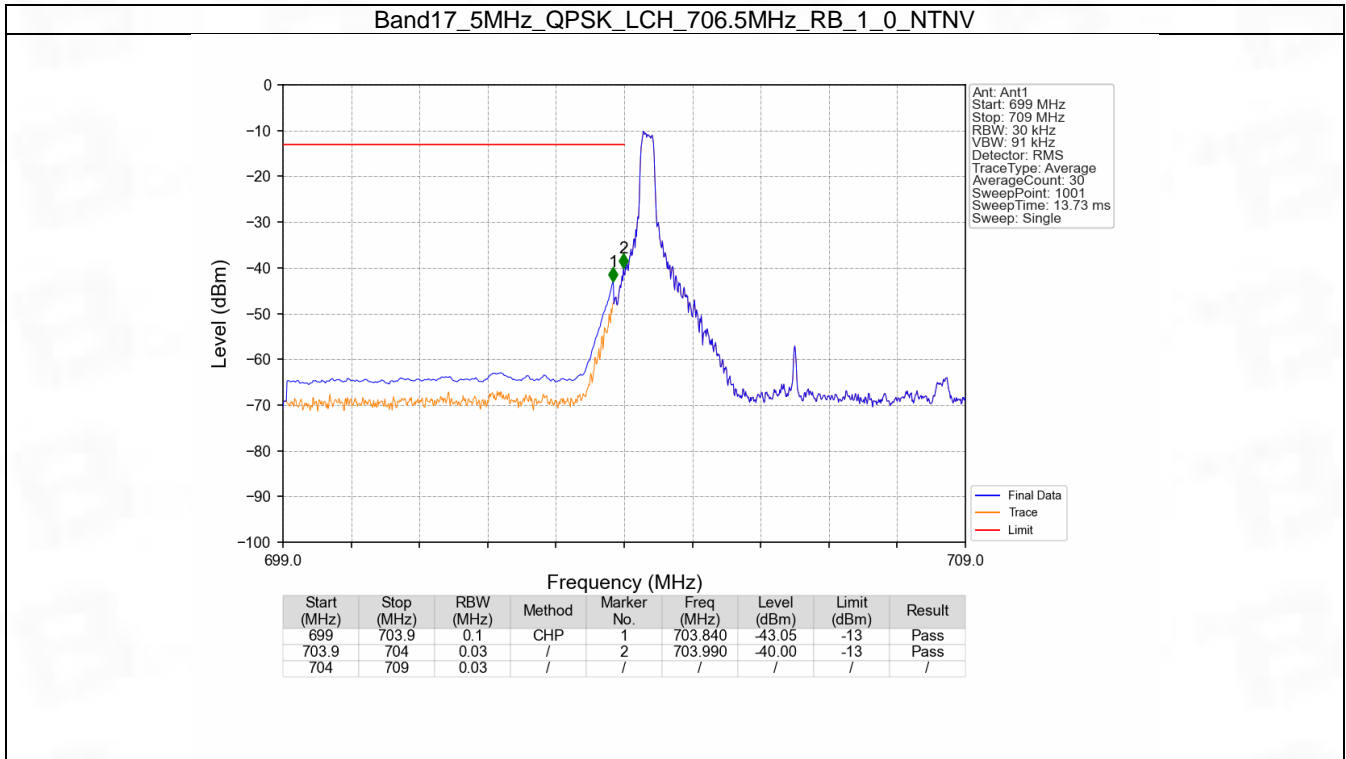
## 6. Spurious Emission

### 6.1 B17\_5MHz

#### 6.1.1 Test Result

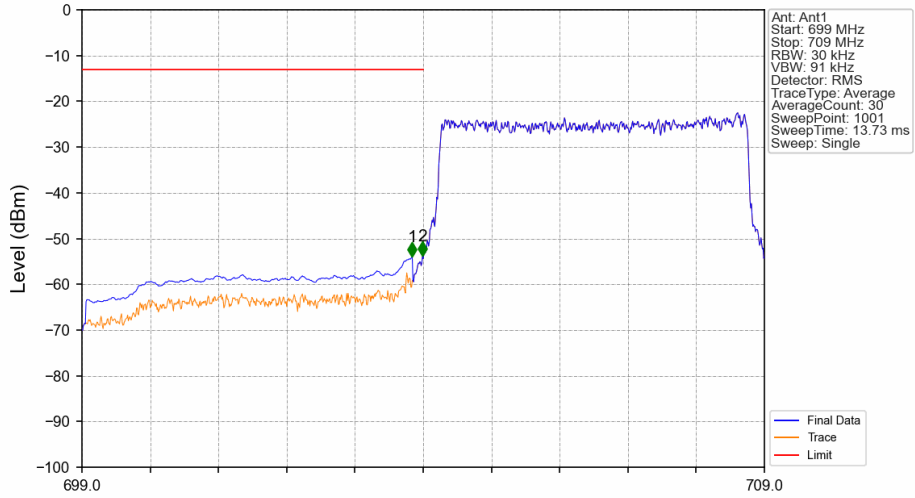
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

### 6.1.2 Test Graph



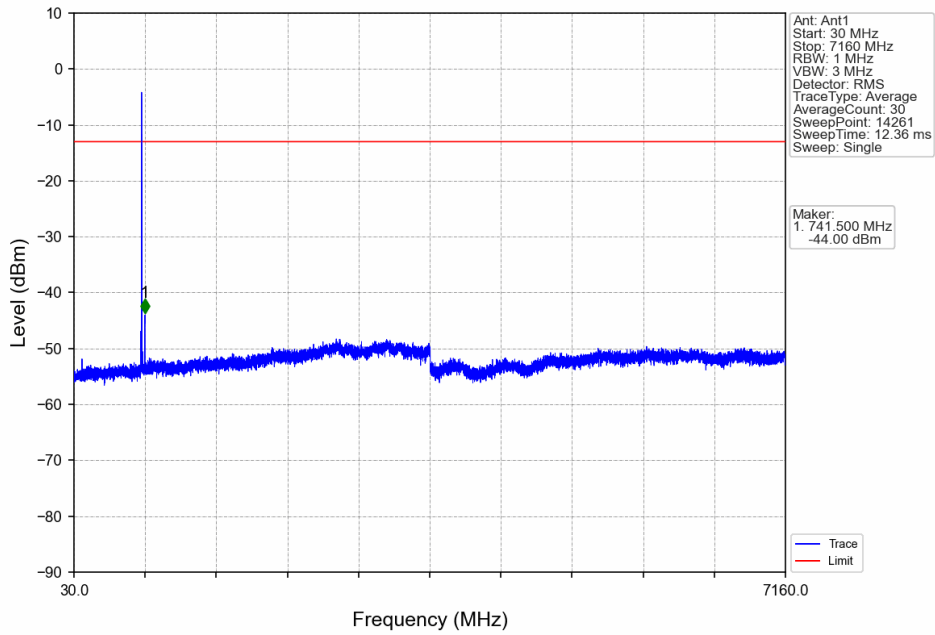


Band17\_5MHz\_QPSK\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-54.02	-13	Pass
703.9	704	0.03	/	2	703.990	-53.77	-13	Pass
704	709	0.03	/	/	/	/	/	/

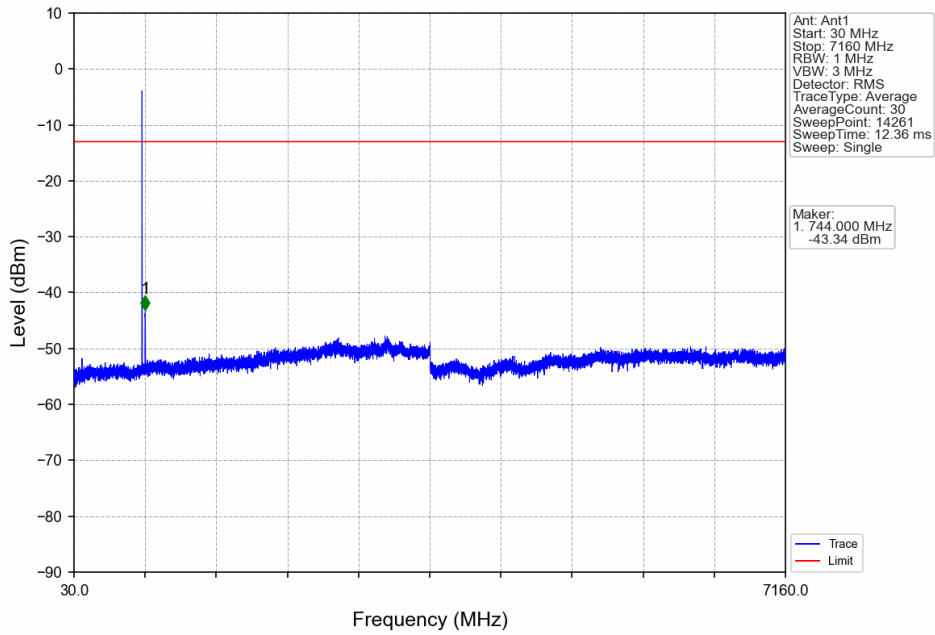
Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



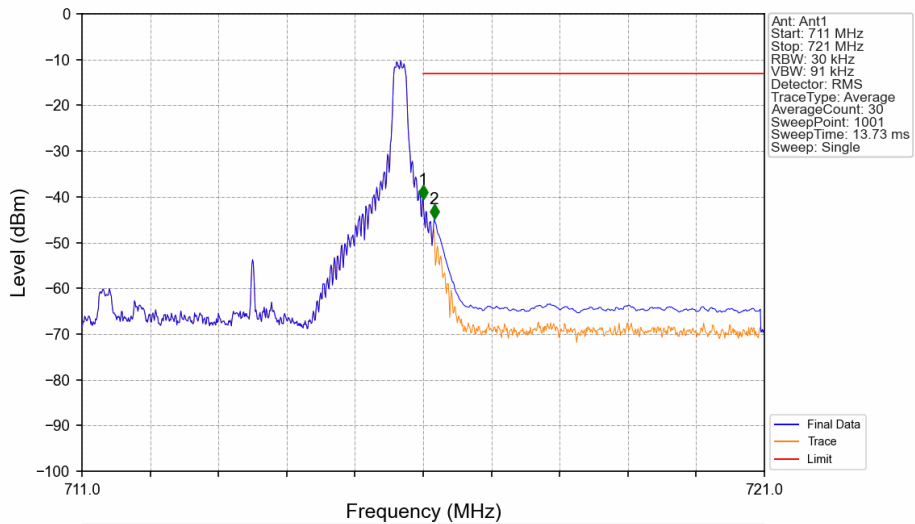
Ant: Ant1  
 Start: 30 MHz  
 Stop: 7160 MHz  
 RBW: 1 MHz  
 VBW: 3 MHz  
 Detector: RMS  
 Trace Type: Average  
 Average Count: 30  
 Sweep Point: 14261  
 Sweep Time: 12.36 ms  
 Sweep: Single

Marker:  
 1: 741.500 MHz  
 -44.00 dBm

Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

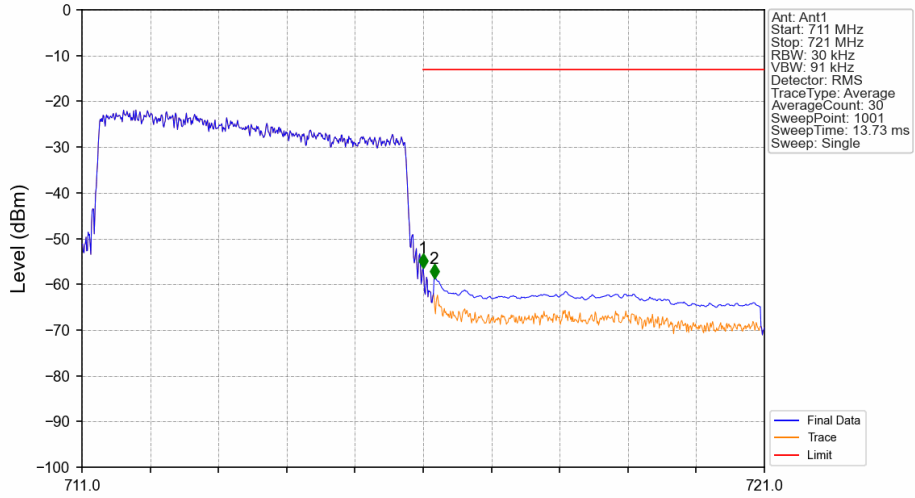


Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



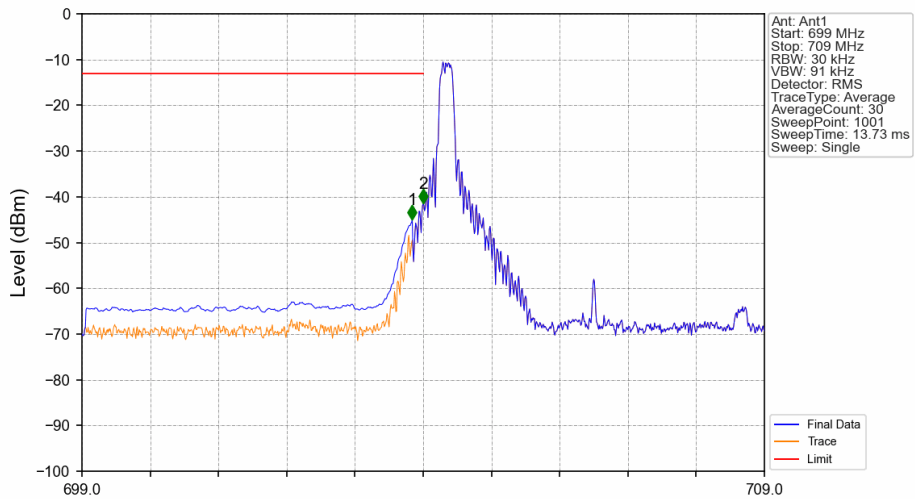
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-40.53	-13	Pass
716.1	721	0.1	CHP	2	716.160	-44.77	-13	Pass

Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



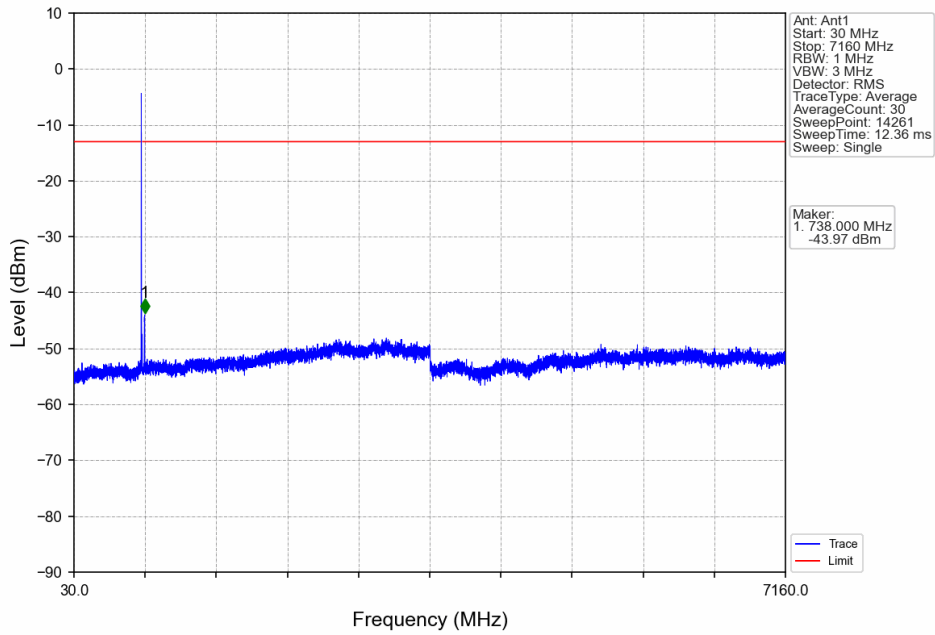
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-56.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-58.70	-13	Pass

Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV

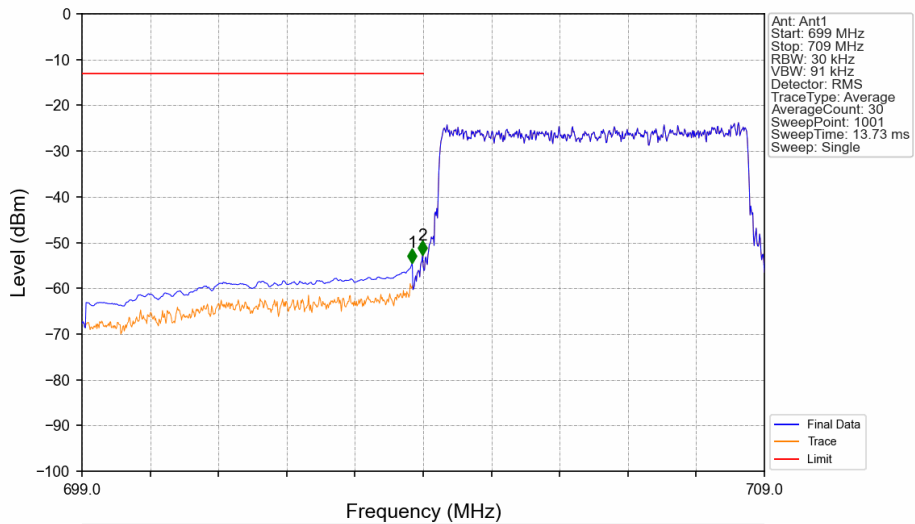


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-44.98	-13	Pass
703.9	704	0.03	/	2	704.000	-41.50	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV

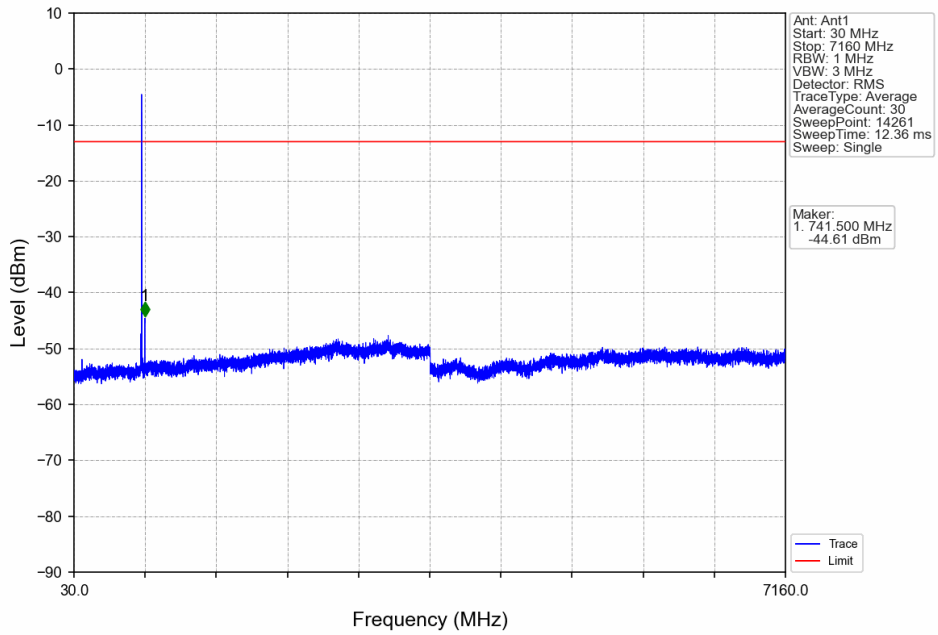


Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_25\_0\_NTNV

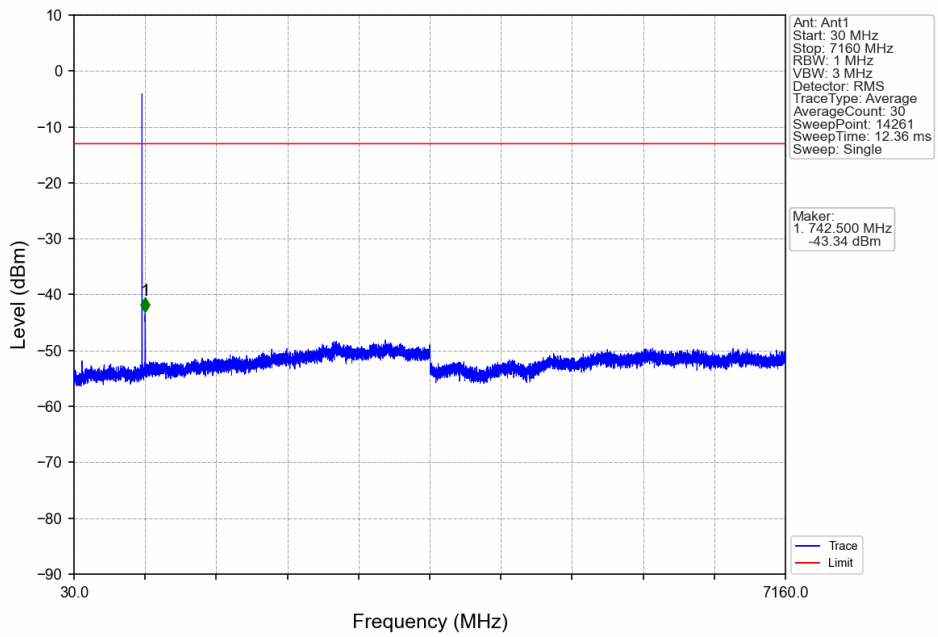


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-54.41	-13	Pass
703.9	704	0.03	/	2	703.990	-52.73	-13	Pass
704	709	0.03	/	/	/	/	/	/

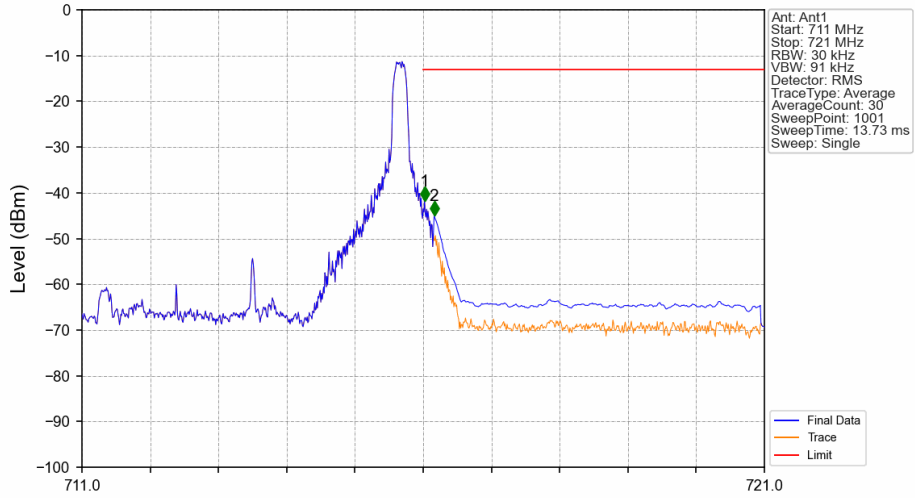
Band17\_5MHz\_16QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

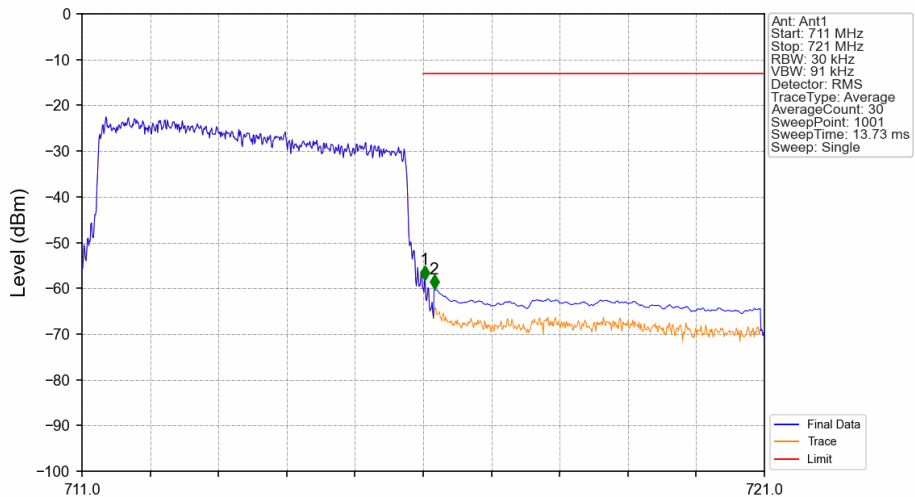


Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-41.85	-13	Pass
716.1	721	0.1	CHP	2	716.160	-44.96	-13	Pass

Band17\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



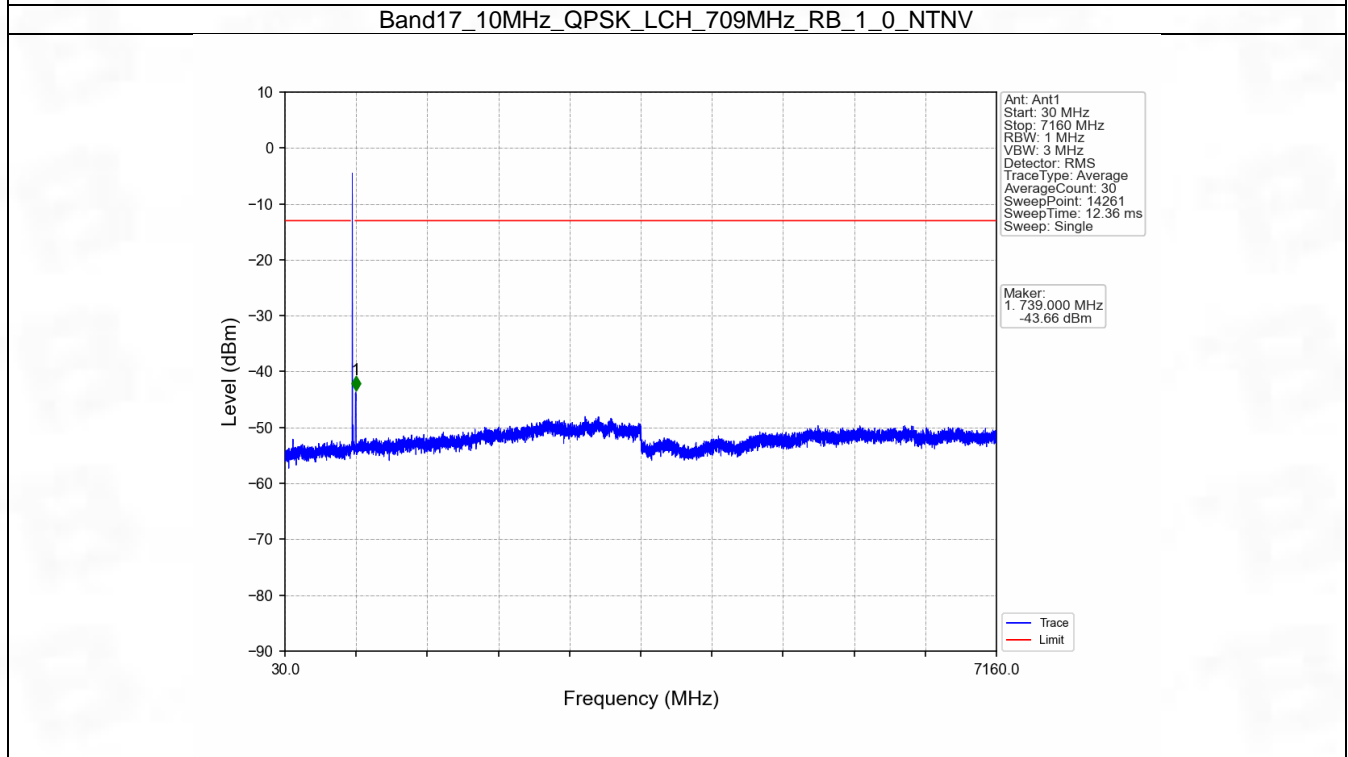
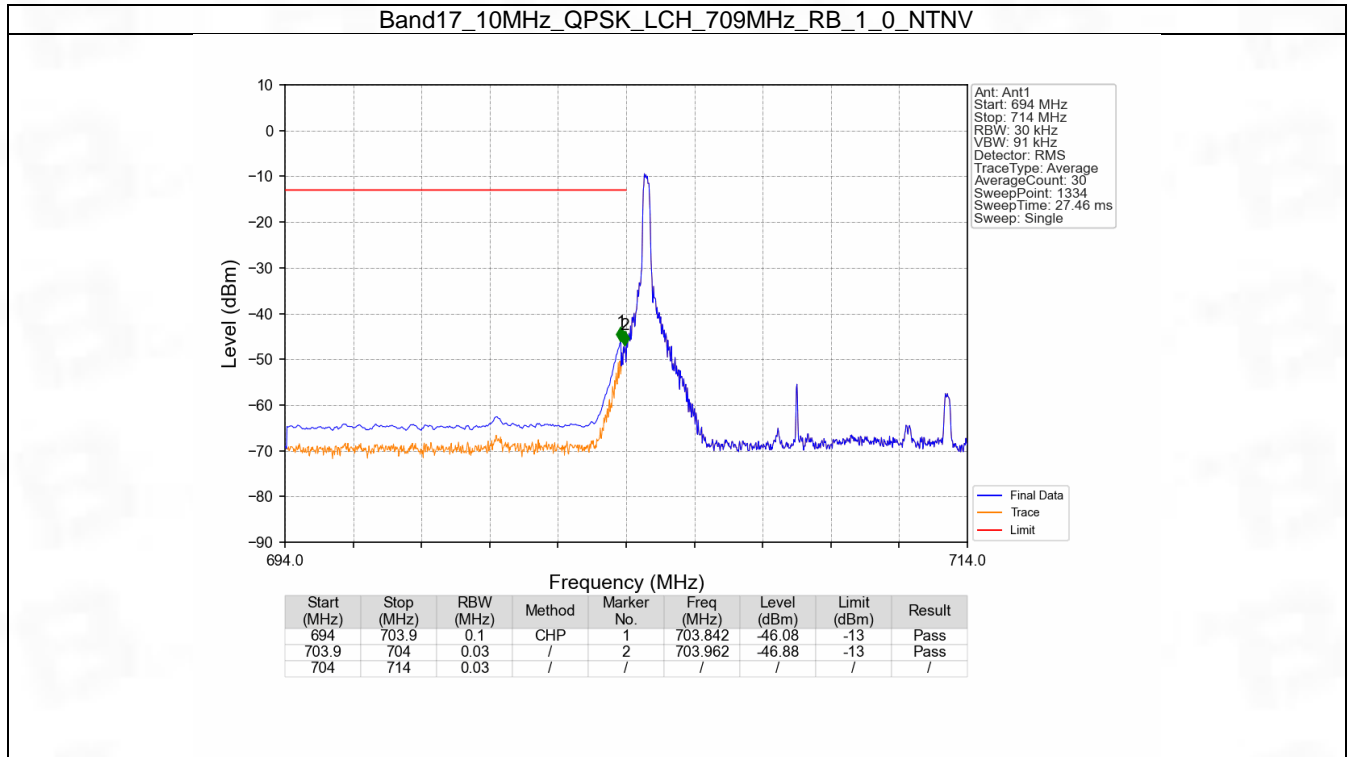
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-58.13	-13	Pass
716.1	721	0.1	CHP	2	716.160	-60.15	-13	Pass

## 6.2 B17\_10MHz

### 6.2.1 Test Result

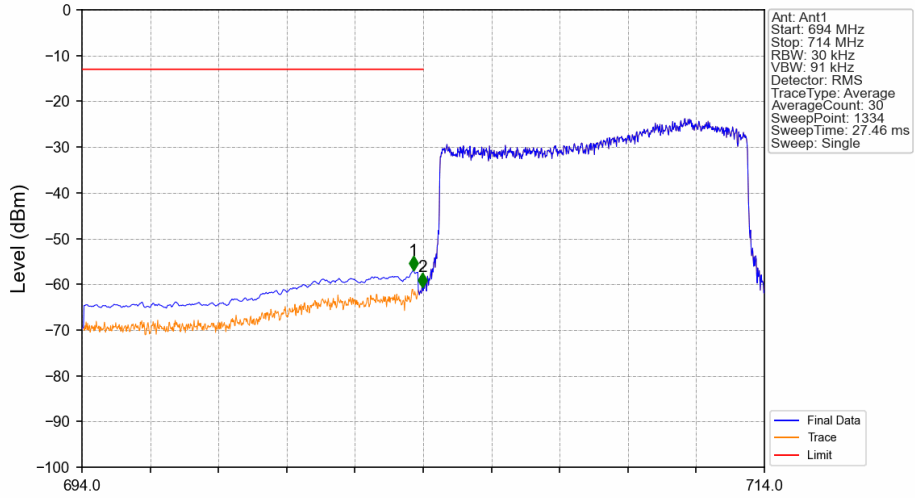
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

## 6.2.2 Test Graph



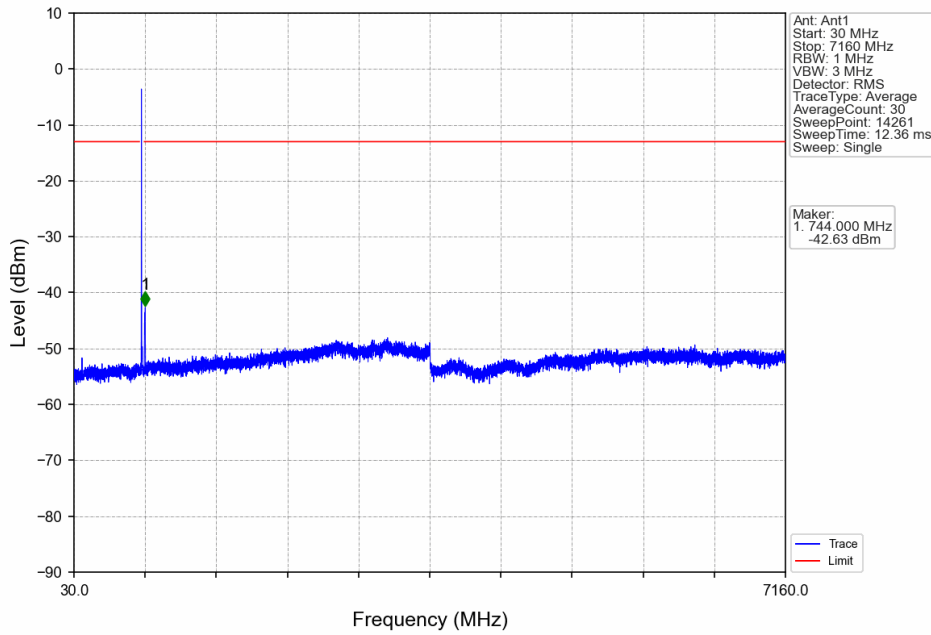


Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV

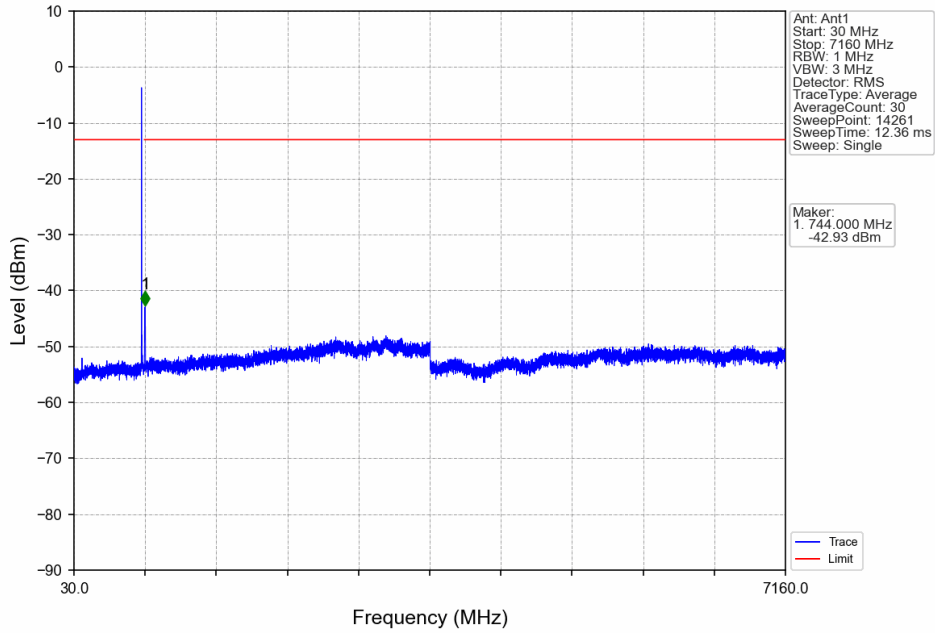


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.707	-56.98	-13	Pass
703.9	704	0.03	/	2	703.977	-60.59	-13	Pass
704	714	0.03	/	/	/	/	/	/

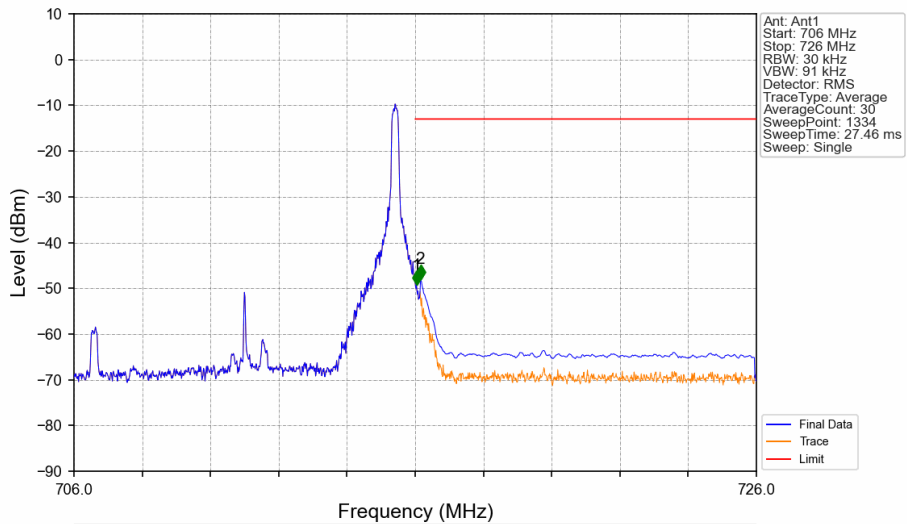
Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_0\_NTNV

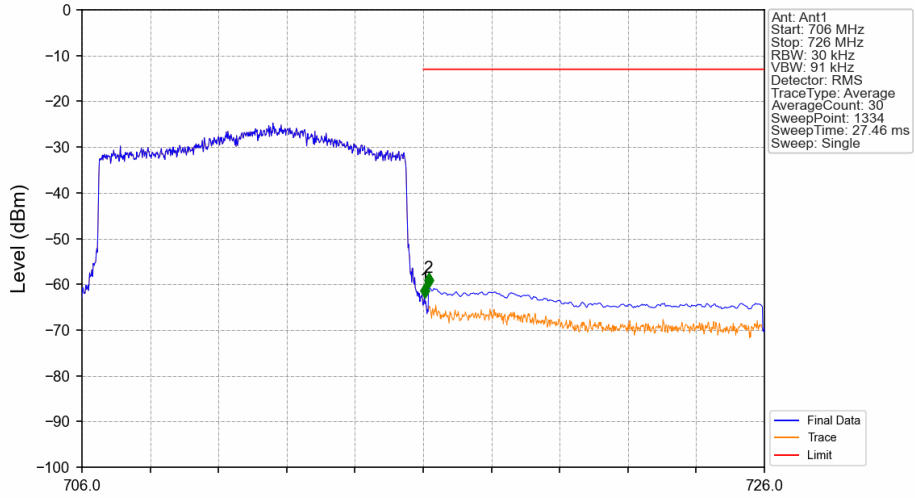


Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_1\_49\_NTNV



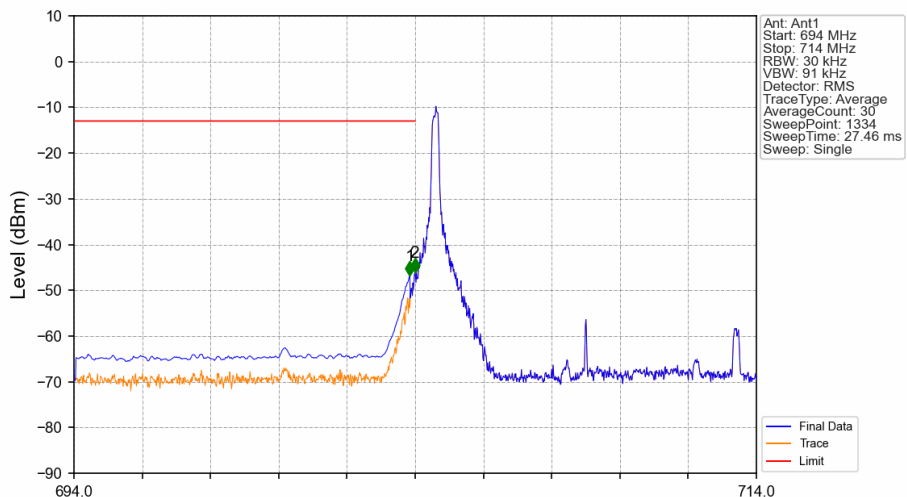
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.038	-49.29	-13	Pass
716	716.1	0.03	/	1	716.038	-49.29	-13	Pass
716.1	726	0.1	CHP	2	716.158	-47.94	-13	Pass

Band17\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV



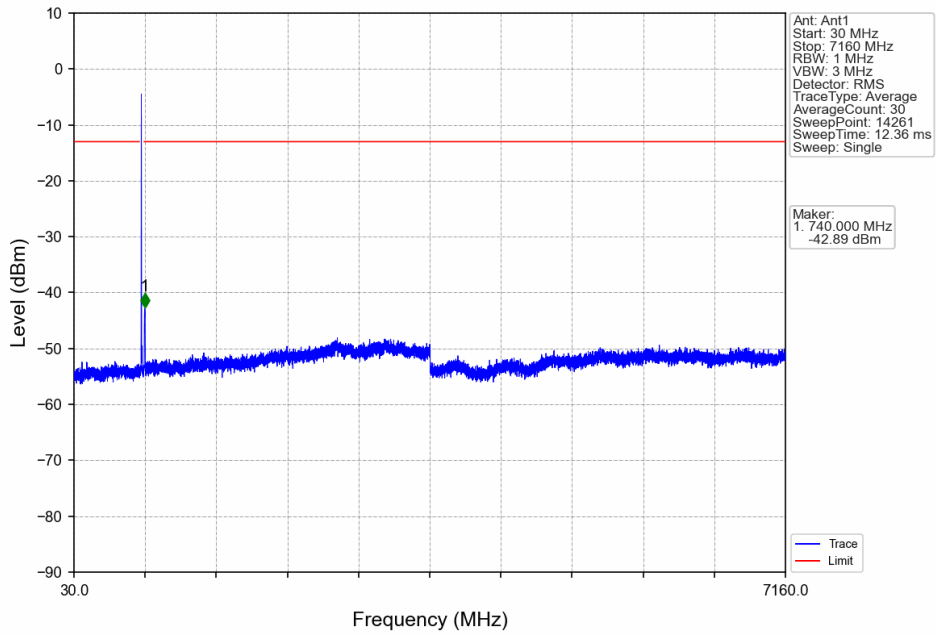
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-63.02	-13	Pass
716.1	726	0.1	CHP	2	716.158	-60.71	-13	Pass

Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV

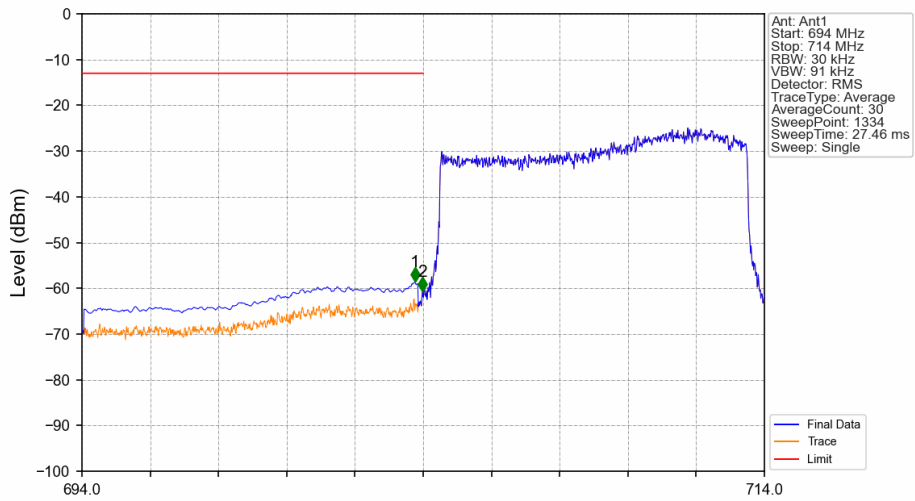


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-46.77	-13	Pass
703.9	704	0.03	/	2	703.992	-46.06	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV

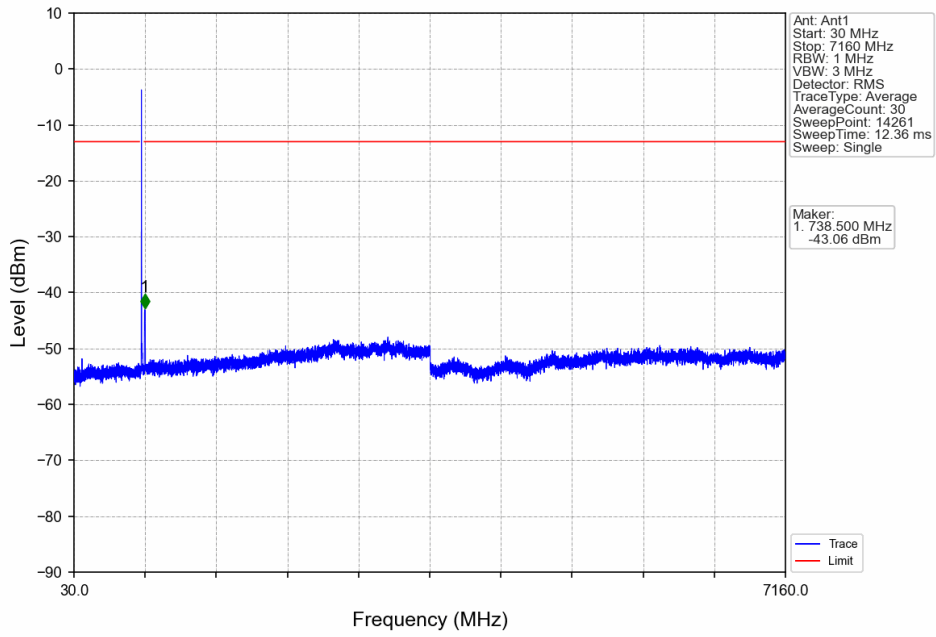


Band17\_10MHz\_16QAM\_LCH\_709MHz\_RB\_50\_0\_NTNV

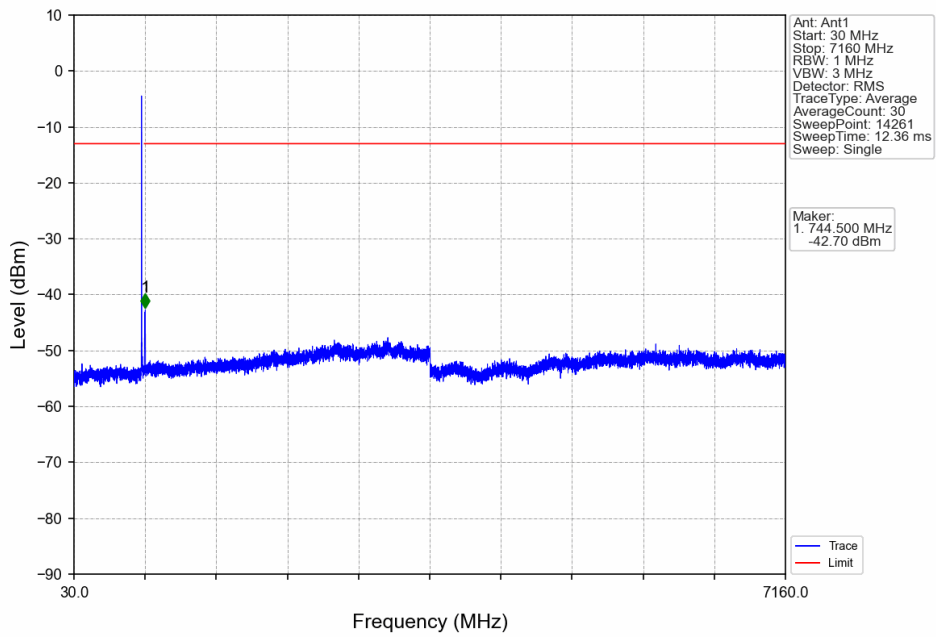


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.752	-58.62	-13	Pass
703.9	704	0.03	/	2	703.977	-60.67	-13	Pass
704	714	0.03	/	/	/	/	/	/

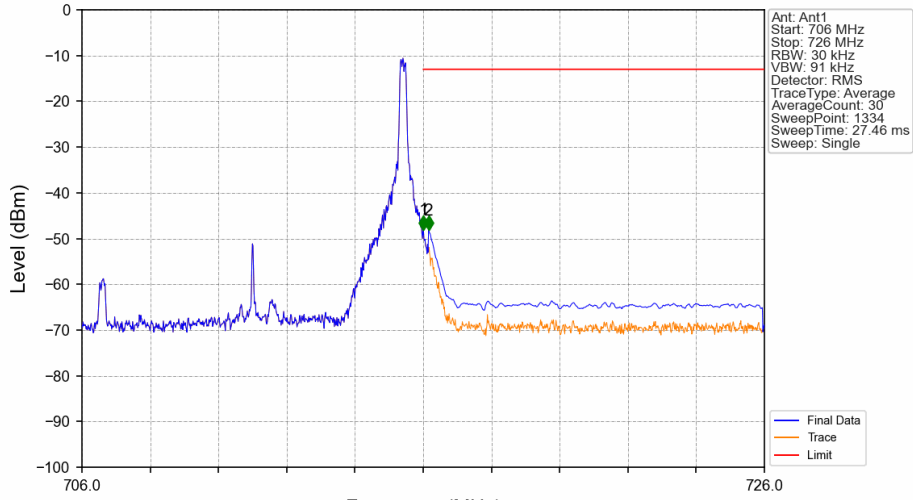
Band17\_10MHz\_16QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV

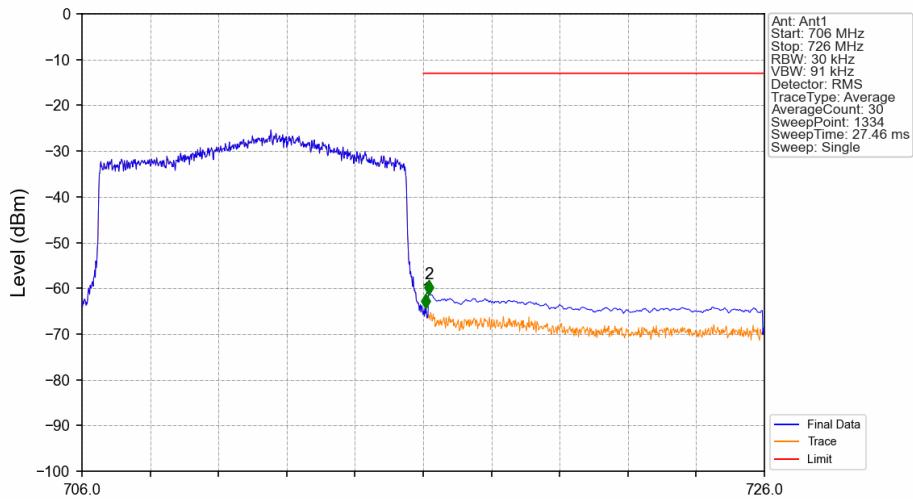


Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-48.08	-13	Pass
716.1	726	0.1	CHP	2	716.158	-48.18	-13	Pass

Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.083	-64.40	-13	Pass
716.1	726	0.1	CHP	2	716.173	-61.29	-13	Pass

## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1932	0.0204	ppm	4M61G7D	27H	22.86
17	5	706.5	713.5	0.1483	0.0186	ppm	4M62W7D	27H	21.71
17	10	709	711	0.1782	0.0133	ppm	9M07G7D	27H	22.51
17	10	709	711	0.1629	0.0130	ppm	9M06W7D	27H	22.12

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.0415	0.0204	ppm	4M61G7D	27H	16.18
17	5	706.5	713.5	0.0318	0.0186	ppm	4M62W7D	27H	15.03
17	10	709	711	0.0383	0.0133	ppm	9M07G7D	27H	15.83
17	10	709	711	0.0350	0.0130	ppm	9M06W7D	27H	15.44