

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	23.87	1.2	25.07	<=30	Pass		
			2	23.89	1.2	25.09	<=30	Pass		
			5	23.89	1.2	25.09	<=30	Pass		
		3	0	23.87	1.2	25.07	<=30	Pass		
			2	23.9	1.2	25.1	<=30	Pass		
			3	23.9	1.2	25.1	<=30	Pass		
		6	0	22.92	1.2	24.12	<=30	Pass		
		1732.5	1	0	23.86	1.2	25.06	<=30	Pass	
				2	23.92	1.2	25.12	<=30	Pass	
	5			23.92	1.2	25.12	<=30	Pass		
	3		0	23.84	1.2	25.04	<=30	Pass		
			2	23.84	1.2	25.04	<=30	Pass		
			3	23.82	1.2	25.02	<=30	Pass		
	6		0	22.87	1.2	24.07	<=30	Pass		
	1754.3		1	0	23.73	1.2	24.93	<=30	Pass	
				2	23.77	1.2	24.97	<=30	Pass	
		5		23.76	1.2	24.96	<=30	Pass		
		3	0	23.74	1.2	24.94	<=30	Pass		
			2	23.75	1.2	24.95	<=30	Pass		
			3	23.74	1.2	24.94	<=30	Pass		
		6	0	22.77	1.2	23.97	<=30	Pass		
		16QAM	1710.7	1	0	23.06	1.2	24.26	<=30	Pass
					2	23.08	1.2	24.28	<=30	Pass
	5				23.06	1.2	24.26	<=30	Pass	
3	0			22.98	1.2	24.18	<=30	Pass		
	2			22.91	1.2	24.11	<=30	Pass		
	3			22.93	1.2	24.13	<=30	Pass		
6	0			21.98	1.2	23.18	<=30	Pass		
1732.5	1			0	22.92	1.2	24.12	<=30	Pass	
				2	22.97	1.2	24.17	<=30	Pass	
			5	22.98	1.2	24.18	<=30	Pass		
3	0		22.89	1.2	24.09	<=30	Pass			

			2	22.88	1.2	24.08	<=30	Pass
			3	22.9	1.2	24.1	<=30	Pass
		6	0	21.92	1.2	23.12	<=30	Pass
	1754.3	1	0	22.95	1.2	24.15	<=30	Pass
			2	22.94	1.2	24.14	<=30	Pass
			5	22.88	1.2	24.08	<=30	Pass
		3	0	22.83	1.2	24.03	<=30	Pass
			2	22.83	1.2	24.03	<=30	Pass
			3	22.81	1.2	24.01	<=30	Pass
		6	0	21.8	1.2	23	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	23.84	1.2	25.04	<=30	Pass	
			7	23.9	1.2	25.1	<=30	Pass	
			14	23.81	1.2	25.01	<=30	Pass	
		8	0	22.95	1.2	24.15	<=30	Pass	
			4	22.96	1.2	24.16	<=30	Pass	
			7	22.95	1.2	24.15	<=30	Pass	
		15	0	22.94	1.2	24.14	<=30	Pass	
		1732.5	1	0	23.84	1.2	25.04	<=30	Pass
				7	23.95	1.2	25.15	<=30	Pass
	14			23.87	1.2	25.07	<=30	Pass	
	8		0	22.93	1.2	24.13	<=30	Pass	
			4	22.97	1.2	24.17	<=30	Pass	
			7	22.85	1.2	24.05	<=30	Pass	
	15		0	22.86	1.2	24.06	<=30	Pass	
	1753.5		1	0	23.77	1.2	24.97	<=30	Pass
				7	23.78	1.2	24.98	<=30	Pass
		14		23.73	1.2	24.93	<=30	Pass	
		8	0	22.81	1.2	24.01	<=30	Pass	
			4	22.83	1.2	24.03	<=30	Pass	
			7	22.77	1.2	23.97	<=30	Pass	
		15	0	22.81	1.2	24.01	<=30	Pass	

16QAM	1711.5	1	0	23.06	1.2	24.26	<=30	Pass		
			7	23.07	1.2	24.27	<=30	Pass		
			14	23.04	1.2	24.24	<=30	Pass		
		8	0	21.95	1.2	23.15	<=30	Pass		
			4	21.97	1.2	23.17	<=30	Pass		
			7	21.97	1.2	23.17	<=30	Pass		
		15	0	21.94	1.2	23.14	<=30	Pass		
		1732.5	1	0	22.88	1.2	24.08	<=30	Pass	
				7	22.97	1.2	24.17	<=30	Pass	
	14			23.07	1.2	24.27	<=30	Pass		
	8		0	21.9	1.2	23.1	<=30	Pass		
			4	21.97	1.2	23.17	<=30	Pass		
			7	21.88	1.2	23.08	<=30	Pass		
	15		0	21.91	1.2	23.11	<=30	Pass		
	1753.5		1	0	22.9	1.2	24.1	<=30	Pass	
				7	22.88	1.2	24.08	<=30	Pass	
		14		22.83	1.2	24.03	<=30	Pass		
		8	0	21.81	1.2	23.01	<=30	Pass		
			4	21.88	1.2	23.08	<=30	Pass		
			7	21.8	1.2	23	<=30	Pass		
		15	0	21.83	1.2	23.03	<=30	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.92	1.2	25.12	<=30	Pass
			13	23.96	1.2	25.16	<=30	Pass
			24	23.86	1.2	25.06	<=30	Pass
		12	0	22.96	1.2	24.16	<=30	Pass
			6	22.97	1.2	24.17	<=30	Pass
			13	22.84	1.2	24.04	<=30	Pass
	25	0	22.85	1.2	24.05	<=30	Pass	
	1732.5	1	0	23.88	1.2	25.08	<=30	Pass
			13	23.93	1.2	25.13	<=30	Pass
24			23.91	1.2	25.11	<=30	Pass	

		12	0	22.97	1.2	24.17	<=30	Pass	
			6	22.9	1.2	24.1	<=30	Pass	
			13	22.89	1.2	24.09	<=30	Pass	
		25	0	22.87	1.2	24.07	<=30	Pass	
		1752.5	1	0	23.82	1.2	25.02	<=30	Pass
				13	23.86	1.2	25.06	<=30	Pass
	24			23.73	1.2	24.93	<=30	Pass	
	12		0	22.86	1.2	24.06	<=30	Pass	
			6	22.83	1.2	24.03	<=30	Pass	
			13	22.83	1.2	24.03	<=30	Pass	
	25	0	22.82	1.2	24.02	<=30	Pass		
	16QAM	1712.5	1	0	22.99	1.2	24.19	<=30	Pass
				13	22.98	1.2	24.18	<=30	Pass
				24	22.94	1.2	24.14	<=30	Pass
			12	0	21.92	1.2	23.12	<=30	Pass
				6	21.95	1.2	23.15	<=30	Pass
				13	21.85	1.2	23.05	<=30	Pass
			25	0	21.86	1.2	23.06	<=30	Pass
1732.5			1	0	22.9	1.2	24.1	<=30	Pass
				13	23.05	1.2	24.25	<=30	Pass
		24		23.02	1.2	24.22	<=30	Pass	
		12	0	21.94	1.2	23.14	<=30	Pass	
			6	21.9	1.2	23.1	<=30	Pass	
			13	21.88	1.2	23.08	<=30	Pass	
25		0	21.87	1.2	23.07	<=30	Pass		
1752.5		1	0	23	1.2	24.2	<=30	Pass	
			13	23.07	1.2	24.27	<=30	Pass	
			24	22.9	1.2	24.1	<=30	Pass	
		12	0	21.86	1.2	23.06	<=30	Pass	
			6	21.86	1.2	23.06	<=30	Pass	
			13	21.85	1.2	23.05	<=30	Pass	
25		0	21.86	1.2	23.06	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit		
QPSK	1715	1	0	23.88	1.2	25.08	<=30	Pass	
			25	23.87	1.2	25.07	<=30	Pass	
			49	23.81	1.2	25.01	<=30	Pass	
		25	0	22.95	1.2	24.15	<=30	Pass	
			13	22.96	1.2	24.16	<=30	Pass	
			25	22.88	1.2	24.08	<=30	Pass	
		50	0	22.99	1.2	24.19	<=30	Pass	
		1732.5	1	0	23.76	1.2	24.96	<=30	Pass
				25	23.83	1.2	25.03	<=30	Pass
	49			23.8	1.2	25	<=30	Pass	
	25		0	22.84	1.2	24.04	<=30	Pass	
			13	22.81	1.2	24.01	<=30	Pass	
			25	22.81	1.2	24.01	<=30	Pass	
	50		0	22.87	1.2	24.07	<=30	Pass	
	1750		1	0	23.76	1.2	24.96	<=30	Pass
				25	23.77	1.2	24.97	<=30	Pass
		49		23.63	1.2	24.83	<=30	Pass	
		25	0	22.86	1.2	24.06	<=30	Pass	
			13	22.86	1.2	24.06	<=30	Pass	
			25	22.7	1.2	23.9	<=30	Pass	
		50	0	22.89	1.2	24.09	<=30	Pass	
16QAM		1715	1	0	23.15	1.2	24.35	<=30	Pass
				25	23.08	1.2	24.28	<=30	Pass
	49			23.06	1.2	24.26	<=30	Pass	
	25		0	21.99	1.2	23.19	<=30	Pass	
			13	21.97	1.2	23.17	<=30	Pass	
			25	21.94	1.2	23.14	<=30	Pass	
	50		0	22.03	1.2	23.23	<=30	Pass	
	1732.5		1	0	22.97	1.2	24.17	<=30	Pass
				25	23.07	1.2	24.27	<=30	Pass
		49		22.92	1.2	24.12	<=30	Pass	
		25	0	21.9	1.2	23.1	<=30	Pass	
			13	21.88	1.2	23.08	<=30	Pass	
			25	21.87	1.2	23.07	<=30	Pass	
		50	0	21.94	1.2	23.14	<=30	Pass	
		1750	1	0	23	1.2	24.2	<=30	Pass
				25	22.91	1.2	24.11	<=30	Pass

		49	22.88	1.2	24.08	<=30	Pass
	25	0	21.85	1.2	23.05	<=30	Pass
		13	21.86	1.2	23.06	<=30	Pass
		25	21.75	1.2	22.95	<=30	Pass
		50	0	21.94	1.2	23.14	<=30
Note1: EIRP=Conducted Power+Antenna Gain							

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1717.5	1	0	23.79	1.2	24.99	<=30	Pass		
			38	23.75	1.2	24.95	<=30	Pass		
			74	23.65	1.2	24.85	<=30	Pass		
		36	0	22.94	1.2	24.14	<=30	Pass		
			18	22.9	1.2	24.1	<=30	Pass		
			39	22.8	1.2	24	<=30	Pass		
		75	0	22.95	1.2	24.15	<=30	Pass		
		1732.5	1	0	23.81	1.2	25.01	<=30	Pass	
				38	23.83	1.2	25.03	<=30	Pass	
	74			23.79	1.2	24.99	<=30	Pass		
	36		0	22.93	1.2	24.13	<=30	Pass		
			18	22.87	1.2	24.07	<=30	Pass		
			39	22.88	1.2	24.08	<=30	Pass		
	75	0	22.89	1.2	24.09	<=30	Pass			
	1747.5	1	0	23.75	1.2	24.95	<=30	Pass		
			38	23.79	1.2	24.99	<=30	Pass		
			74	23.62	1.2	24.82	<=30	Pass		
		36	0	22.93	1.2	24.13	<=30	Pass		
			18	22.88	1.2	24.08	<=30	Pass		
			39	22.75	1.2	23.95	<=30	Pass		
		75	0	22.92	1.2	24.12	<=30	Pass		
		16QAM	1717.5	1	0	23.06	1.2	24.26	<=30	Pass
					38	22.97	1.2	24.17	<=30	Pass
	74				22.91	1.2	24.11	<=30	Pass	
36	0			21.95	1.2	23.15	<=30	Pass		
	18			21.94	1.2	23.14	<=30	Pass		

			39	21.81	1.2	23.01	<=30	Pass
		75	0	21.98	1.2	23.18	<=30	Pass
	1732.5	1	0	22.99	1.2	24.19	<=30	Pass
			38	23.08	1.2	24.28	<=30	Pass
			74	22.89	1.2	24.09	<=30	Pass
		36	0	21.91	1.2	23.11	<=30	Pass
			18	21.87	1.2	23.07	<=30	Pass
			39	21.88	1.2	23.08	<=30	Pass
		75	0	21.94	1.2	23.14	<=30	Pass
	1747.5	1	0	23.08	1.2	24.28	<=30	Pass
			38	22.95	1.2	24.15	<=30	Pass
			74	22.75	1.2	23.95	<=30	Pass
		36	0	21.92	1.2	23.12	<=30	Pass
			18	21.94	1.2	23.14	<=30	Pass
			39	21.75	1.2	22.95	<=30	Pass
		75	0	21.92	1.2	23.12	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.91	1.2	25.11	<=30	Pass
			50	23.81	1.2	25.01	<=30	Pass
			99	23.75	1.2	24.95	<=30	Pass
		50	0	22.96	1.2	24.16	<=30	Pass
			25	22.88	1.2	24.08	<=30	Pass
			50	22.82	1.2	24.02	<=30	Pass
		100	0	22.99	1.2	24.19	<=30	Pass
	1732.5	1	0	23.63	1.2	24.83	<=30	Pass
			50	23.79	1.2	24.99	<=30	Pass
			99	23.67	1.2	24.87	<=30	Pass
		50	0	22.88	1.2	24.08	<=30	Pass
			25	22.84	1.2	24.04	<=30	Pass
			50	22.83	1.2	24.03	<=30	Pass
		100	0	22.93	1.2	24.13	<=30	Pass
	1745	1	0	23.8	1.2	25	<=30	Pass

			50	23.74	1.2	24.94	<=30	Pass		
			99	23.66	1.2	24.86	<=30	Pass		
			0	22.92	1.2	24.12	<=30	Pass		
		50	25	22.93	1.2	24.13	<=30	Pass		
			50	22.77	1.2	23.97	<=30	Pass		
			0	23	1.2	24.2	<=30	Pass		
		100	0	23	1.2	24.2	<=30	Pass		
		16QAM	1720	1	0	22.94	1.2	24.14	<=30	Pass
					50	22.96	1.2	24.16	<=30	Pass
99	22.9				1.2	24.1	<=30	Pass		
50	0			21.95	1.2	23.15	<=30	Pass		
	25			21.86	1.2	23.06	<=30	Pass		
	50			21.83	1.2	23.03	<=30	Pass		
100	0			22.01	1.2	23.21	<=30	Pass		
1732.5	1			0	22.88	1.2	24.08	<=30	Pass	
				50	23.3	1.2	24.5	<=30	Pass	
				99	23	1.2	24.2	<=30	Pass	
	50			0	21.9	1.2	23.1	<=30	Pass	
				25	21.88	1.2	23.08	<=30	Pass	
			50	21.83	1.2	23.03	<=30	Pass		
	100		0	21.99	1.2	23.19	<=30	Pass		
	1745		1	0	22.95	1.2	24.15	<=30	Pass	
				50	22.91	1.2	24.11	<=30	Pass	
				99	22.73	1.2	23.93	<=30	Pass	
			50	0	21.9	1.2	23.1	<=30	Pass	
				25	21.89	1.2	23.09	<=30	Pass	
50				21.76	1.2	22.96	<=30	Pass		
100			0	22.01	1.2	23.21	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

2. Frequency Stability

2.1 B4_20MHz

2.1.1 Test Result

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	-2.791	-0.0016	-2.5 to 2.5	Pass
					3.85	-1.476	-0.0009	-2.5 to 2.5	Pass
					4.43	-1.855	-0.0011	-2.5 to 2.5	Pass

				-30	3.85	-2.271	-0.0013	-2.5 to 2.5	Pass			
				-20	3.85	-2.088	-0.0012	-2.5 to 2.5	Pass			
				-10	3.85	-1.710	-0.0010	-2.5 to 2.5	Pass			
				0	3.85	-1.138	-0.0007	-2.5 to 2.5	Pass			
				10	3.85	-1.606	-0.0009	-2.5 to 2.5	Pass			
				30	3.85	-1.892	-0.0011	-2.5 to 2.5	Pass			
				40	3.85	-1.150	-0.0007	-2.5 to 2.5	Pass			
	50	3.85	-1.108	-0.0006	-2.5 to 2.5	Pass						
	1732.5	100	0	20	3.27	-3.472	-0.0020	-2.5 to 2.5	Pass			
					3.85	-3.079	-0.0018	-2.5 to 2.5	Pass			
					4.43	-3.450	-0.0020	-2.5 to 2.5	Pass			
				-30	3.85	-2.963	-0.0017	-2.5 to 2.5	Pass			
				-20	3.85	-3.206	-0.0019	-2.5 to 2.5	Pass			
				-10	3.85	-3.452	-0.0020	-2.5 to 2.5	Pass			
				0	3.85	-4.419	-0.0026	-2.5 to 2.5	Pass			
				10	3.85	-3.465	-0.0020	-2.5 to 2.5	Pass			
				30	3.85	-2.740	-0.0016	-2.5 to 2.5	Pass			
				40	3.85	-3.270	-0.0019	-2.5 to 2.5	Pass			
				50	3.85	-3.370	-0.0019	-2.5 to 2.5	Pass			
				1745	100	0	20	3.27	-1.639	-0.0009	-2.5 to 2.5	Pass
								3.85	-1.914	-0.0011	-2.5 to 2.5	Pass
	4.43	-1.314	-0.0008					-2.5 to 2.5	Pass			
	-30	3.85	-1.362				-0.0008	-2.5 to 2.5	Pass			
	-20	3.85	-1.615				-0.0009	-2.5 to 2.5	Pass			
	-10	3.85	-1.810				-0.0010	-2.5 to 2.5	Pass			
	0	3.85	-2.037				-0.0012	-2.5 to 2.5	Pass			
	10	3.85	-1.730				-0.0010	-2.5 to 2.5	Pass			
30	3.85	-2.592	-0.0015				-2.5 to 2.5	Pass				
40	3.85	-2.499	-0.0014				-2.5 to 2.5	Pass				
50	3.85	-2.568	-0.0015				-2.5 to 2.5	Pass				

3. 99% & 26dB Bandwidth

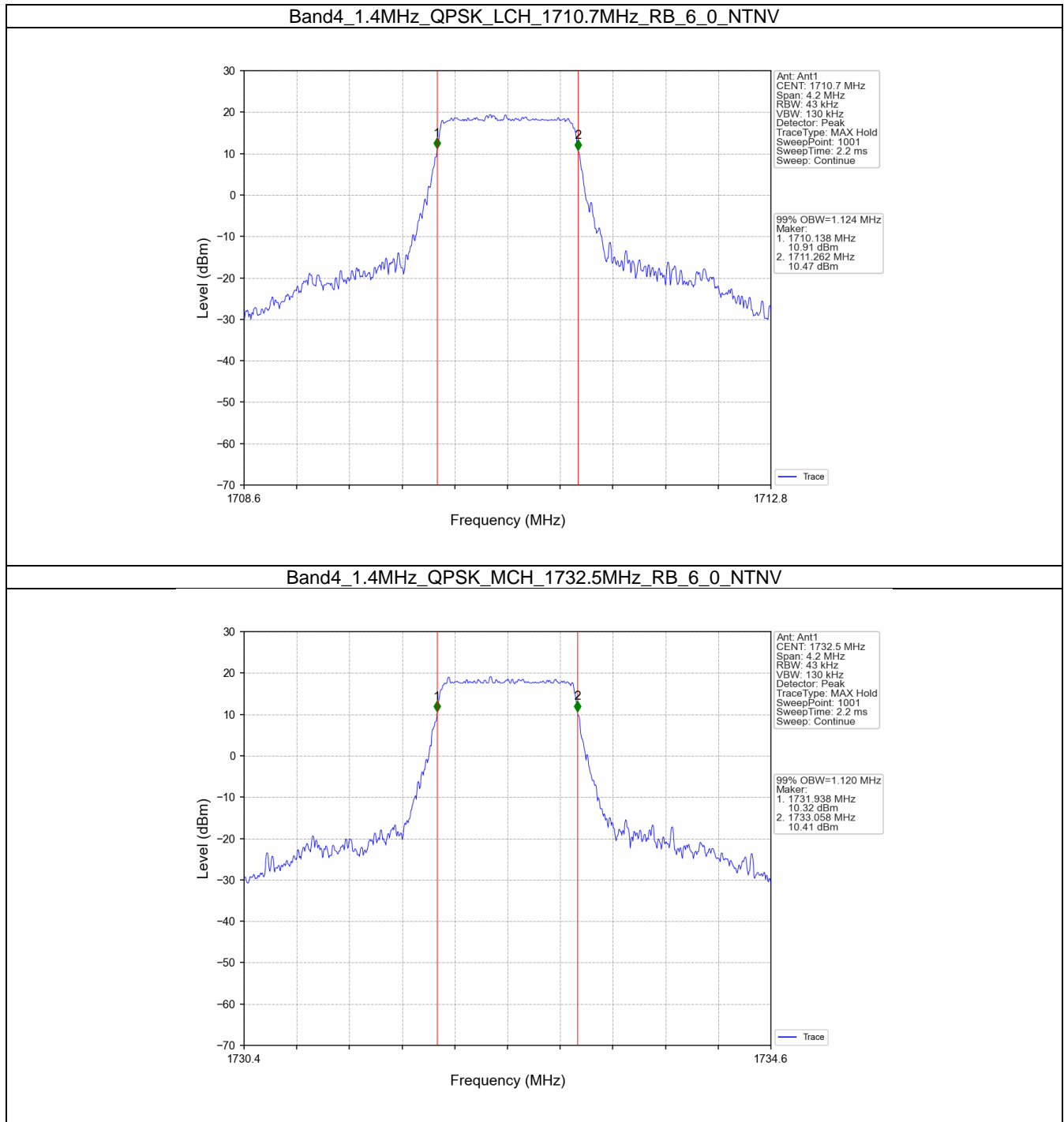
3.1 Band4_OBW

3.1.1 Test Result

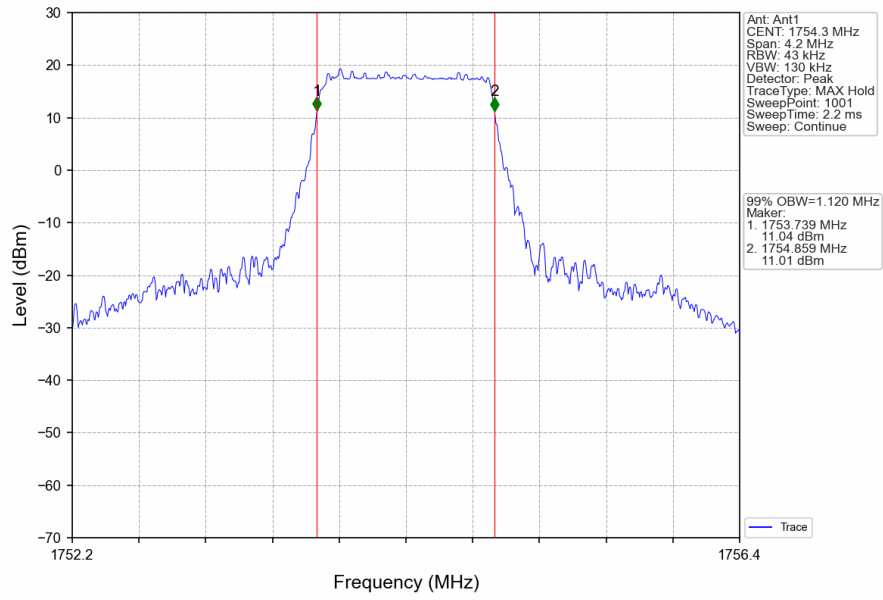
Band: 4 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.124	/	Pass
		1732.5	6	0	1.120	/	Pass
		1754.3	6	0	1.120	/	Pass
	16QAM	1710.7	6	0	1.116	/	Pass
		1732.5	6	0	1.121	/	Pass
		1754.3	6	0	1.124	/	Pass
3	QPSK	1711.5	15	0	2.753	/	Pass
		1732.5	15	0	2.744	/	Pass
		1753.5	15	0	2.749	/	Pass
	16QAM	1711.5	15	0	2.743	/	Pass
		1732.5	15	0	2.749	/	Pass
		1753.5	15	0	2.738	/	Pass
5	QPSK	1712.5	25	0	4.578	/	Pass
		1732.5	25	0	4.573	/	Pass

		1752.5	25	0	4.587	/	Pass
	16QAM	1712.5	25	0	4.570	/	Pass
		1732.5	25	0	4.558	/	Pass
		1752.5	25	0	4.562	/	Pass
10		QPSK	1715	50	0	9.095	/
	1732.5		50	0	9.076	/	Pass
	1750		50	0	9.082	/	Pass
	16QAM	1715	50	0	9.078	/	Pass
		1732.5	50	0	9.092	/	Pass
		1750	50	0	9.071	/	Pass
15	QPSK	1717.5	75	0	13.620	/	Pass
		1732.5	75	0	13.661	/	Pass
		1747.5	75	0	13.587	/	Pass
	16QAM	1717.5	75	0	13.610	/	Pass
		1732.5	75	0	13.633	/	Pass
		1747.5	75	0	13.614	/	Pass
20	QPSK	1720	100	0	18.124	/	Pass
		1732.5	100	0	18.213	/	Pass
		1745	100	0	18.139	/	Pass
	16QAM	1720	100	0	18.124	/	Pass
		1732.5	100	0	18.168	/	Pass
		1745	100	0	18.068	/	Pass

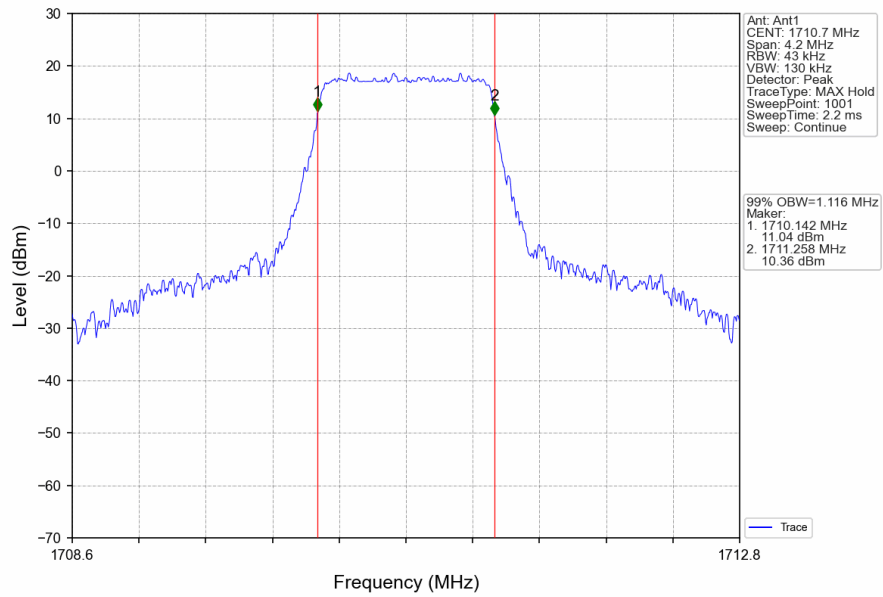
3.1.2 Test Graph



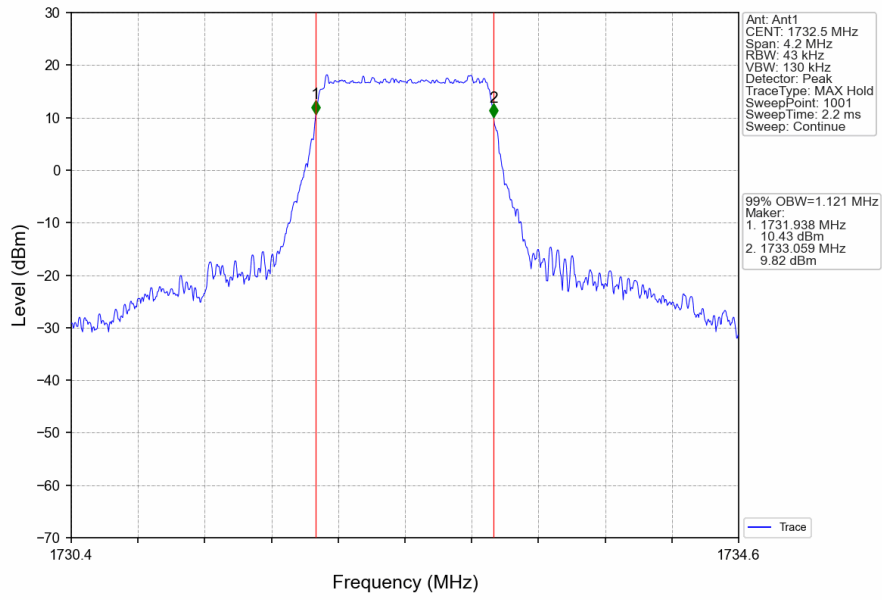
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



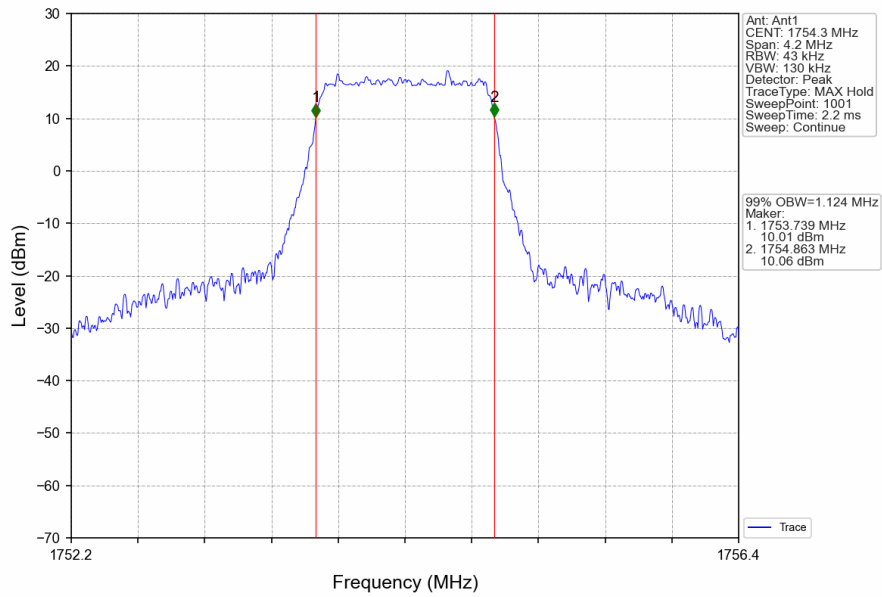
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



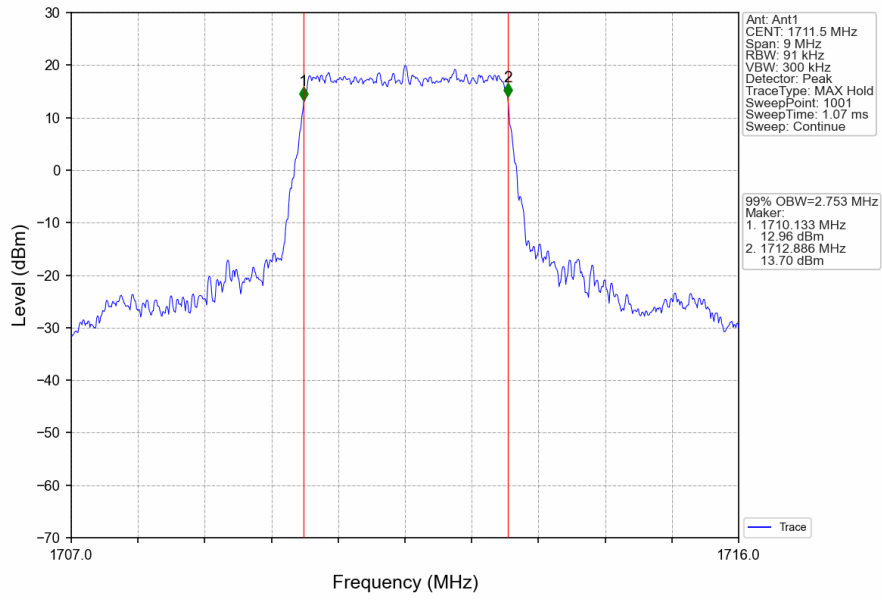
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



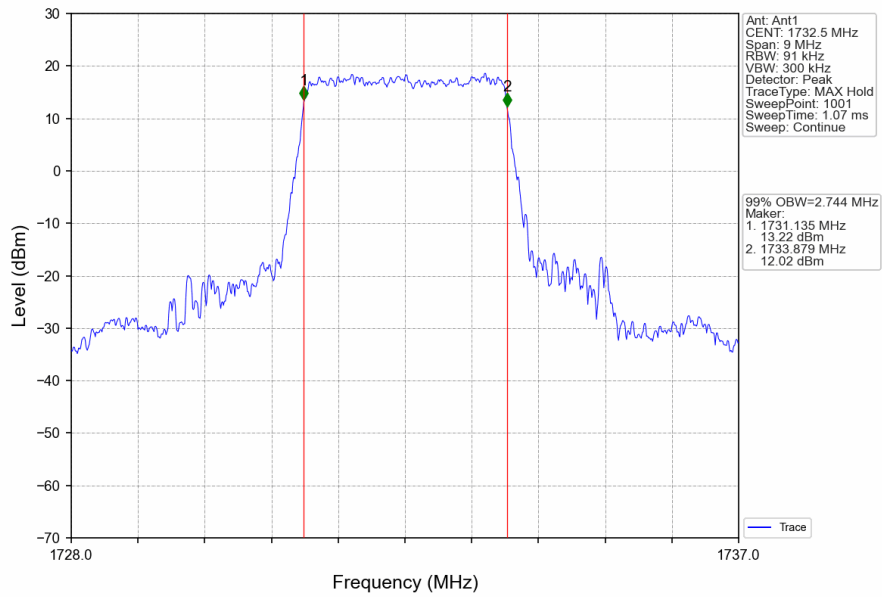
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



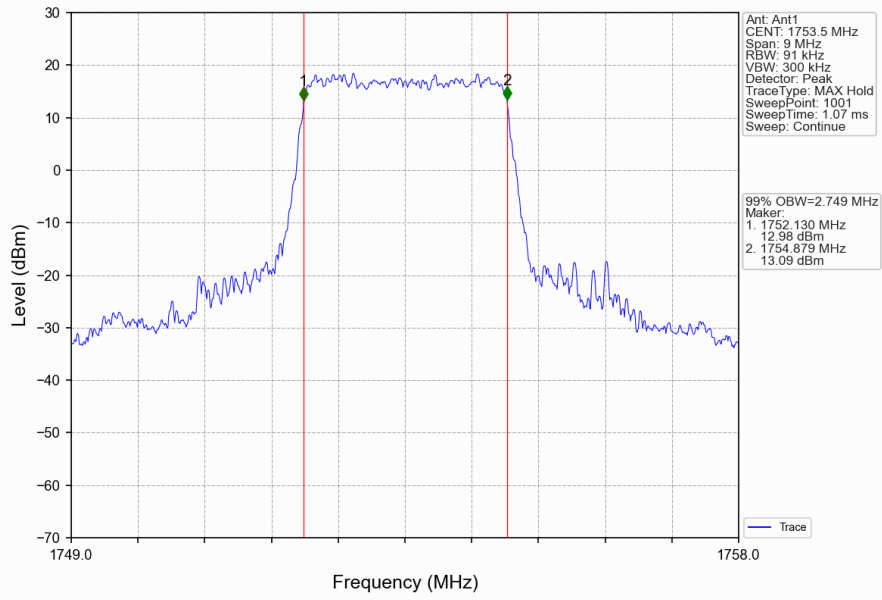
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



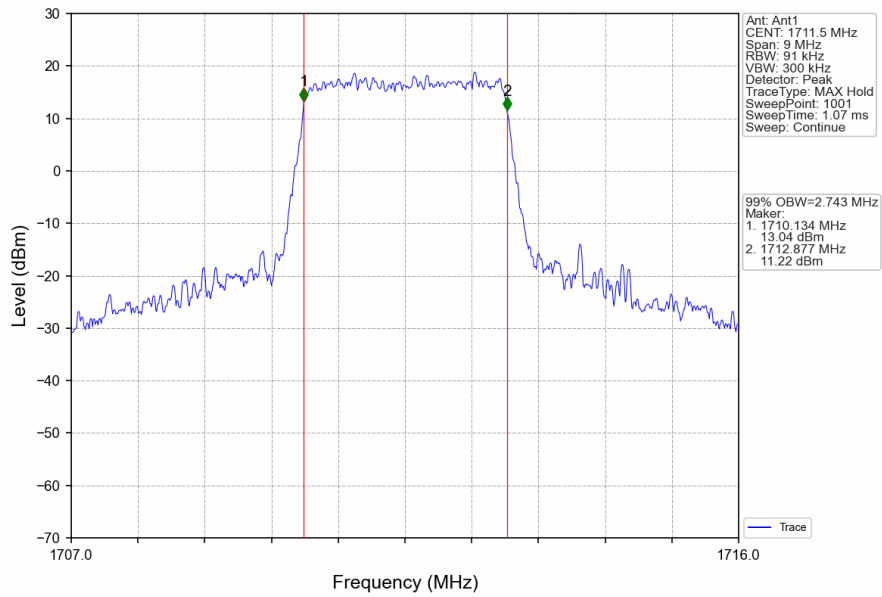
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



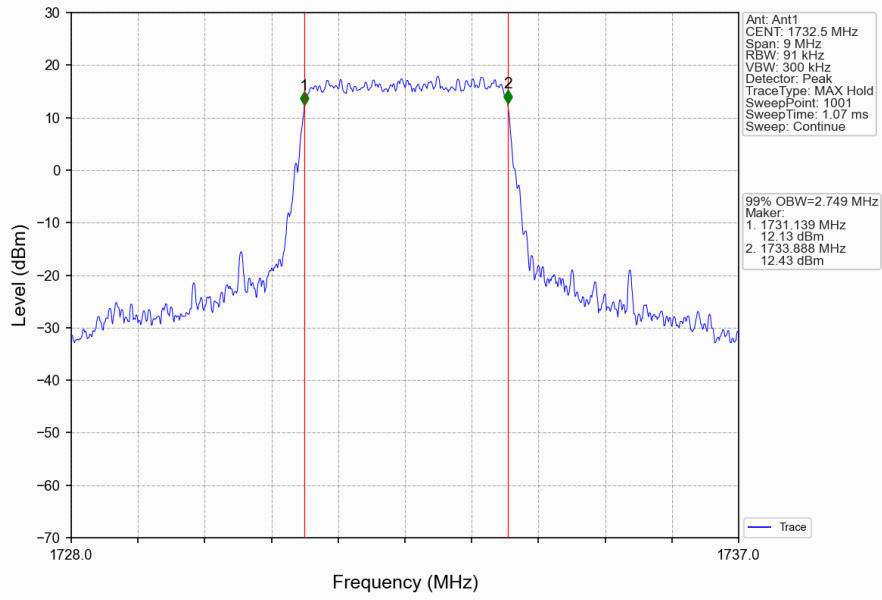
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



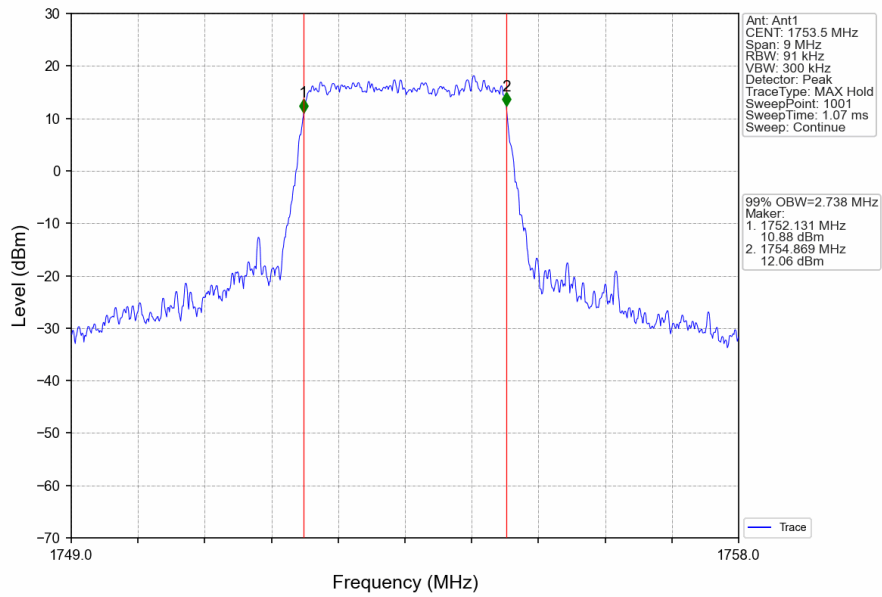
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



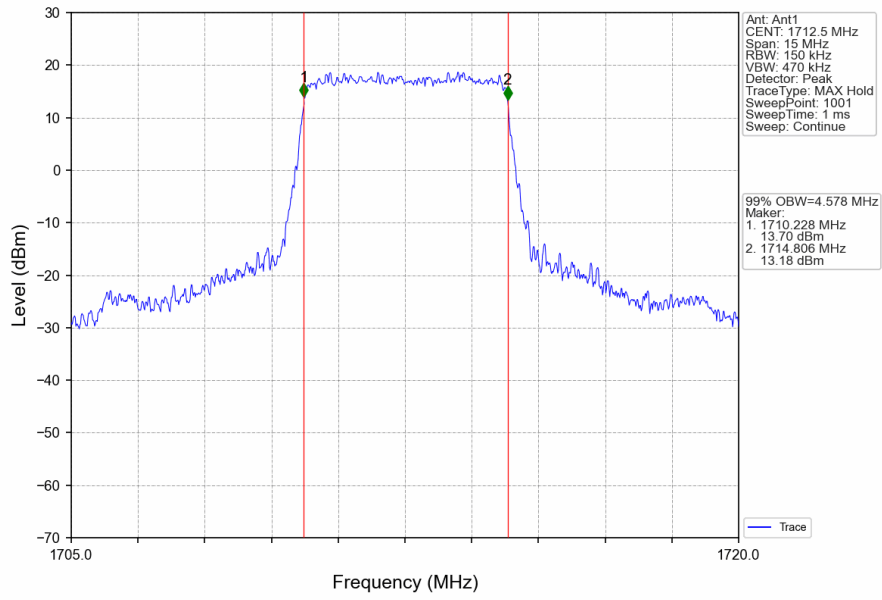
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



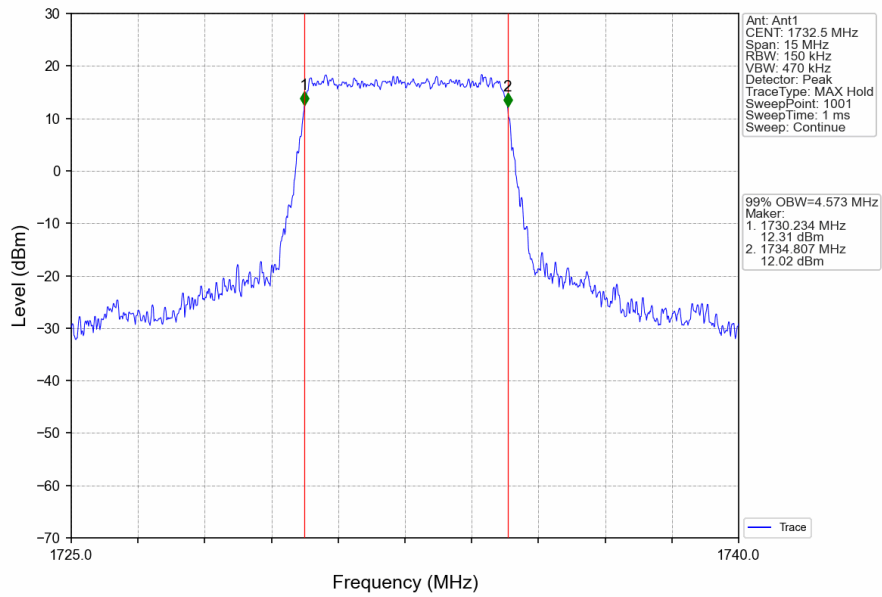
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



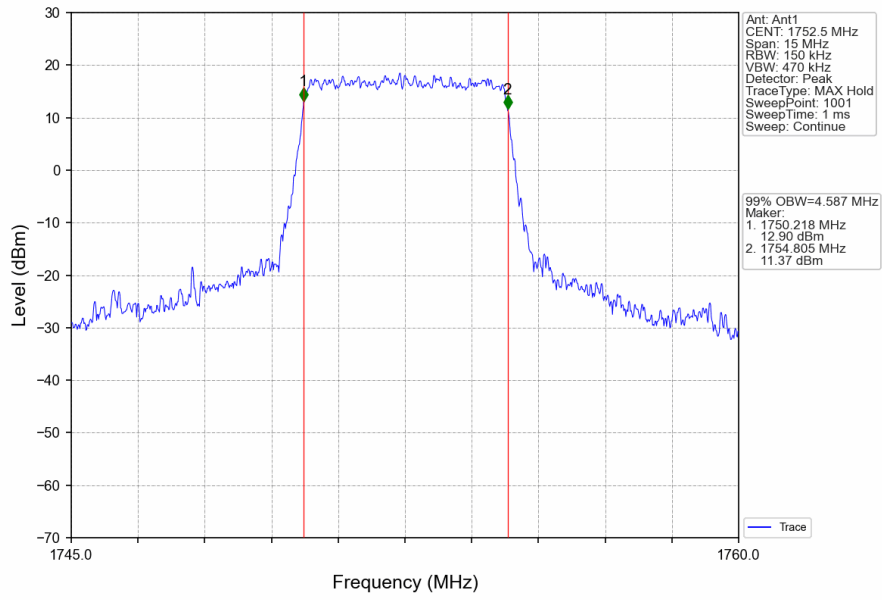
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



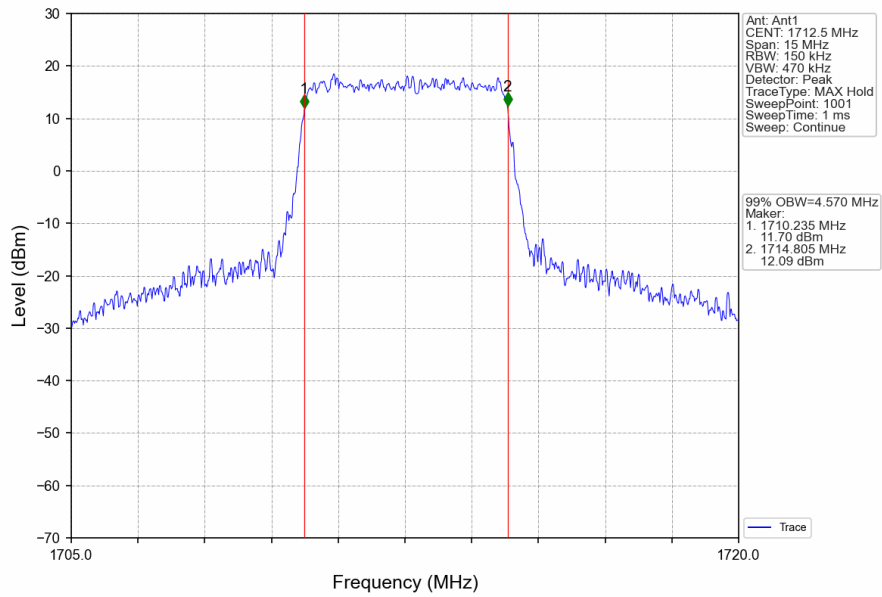
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



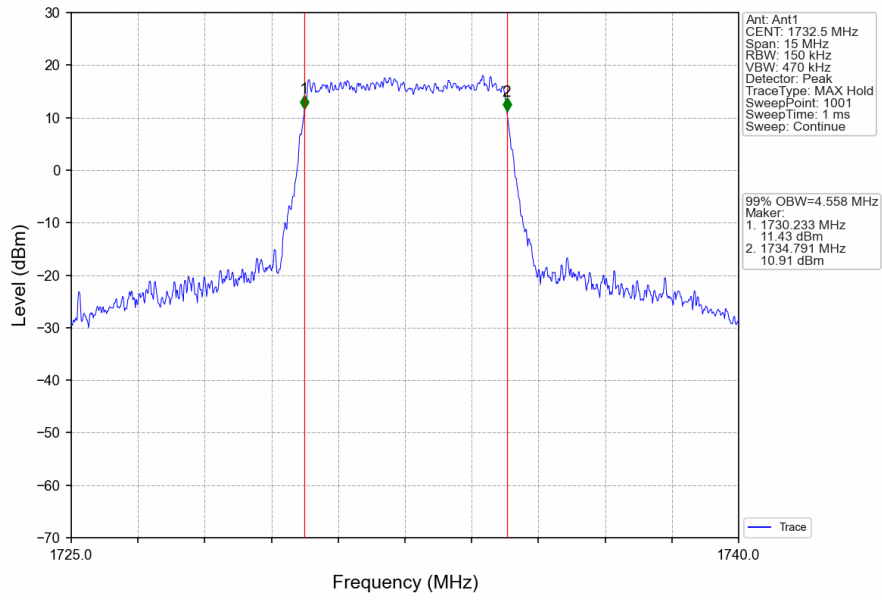
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



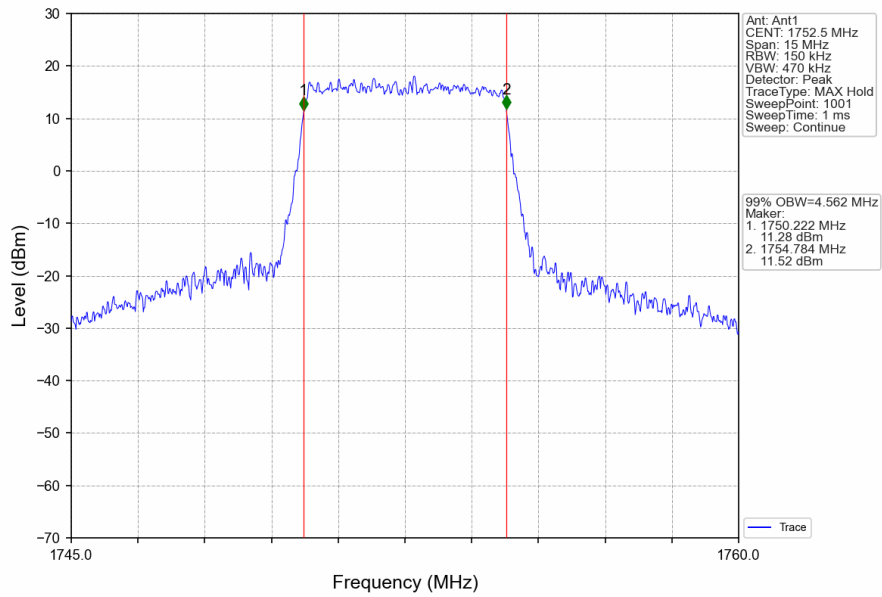
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



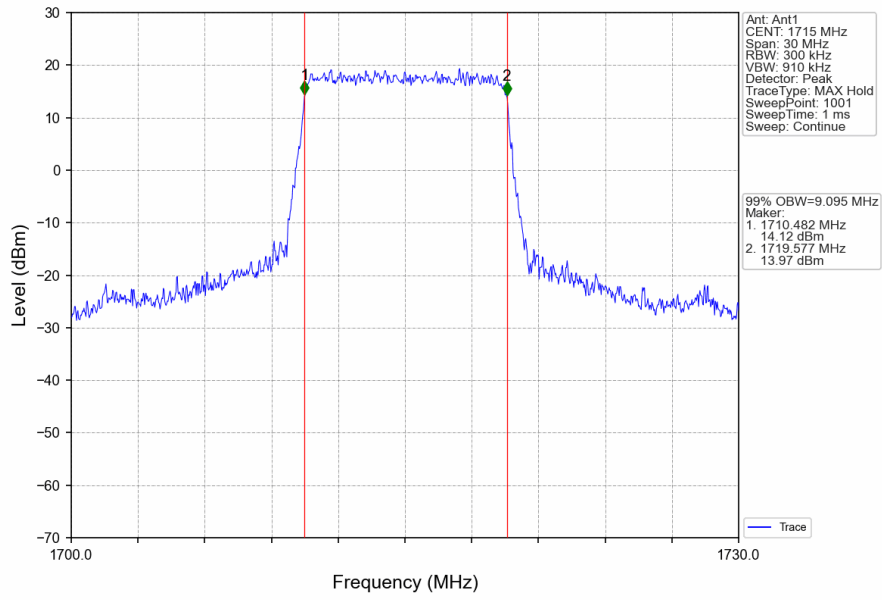
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



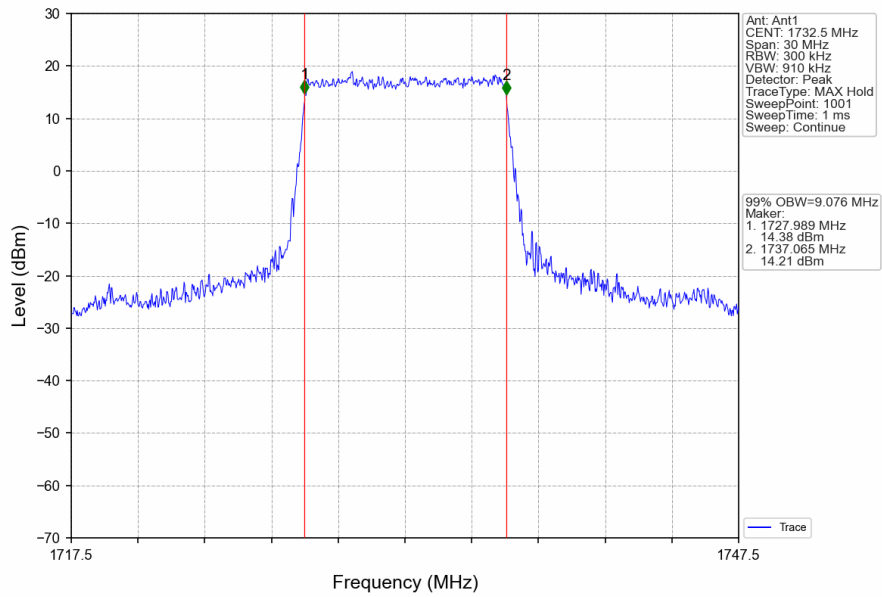
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



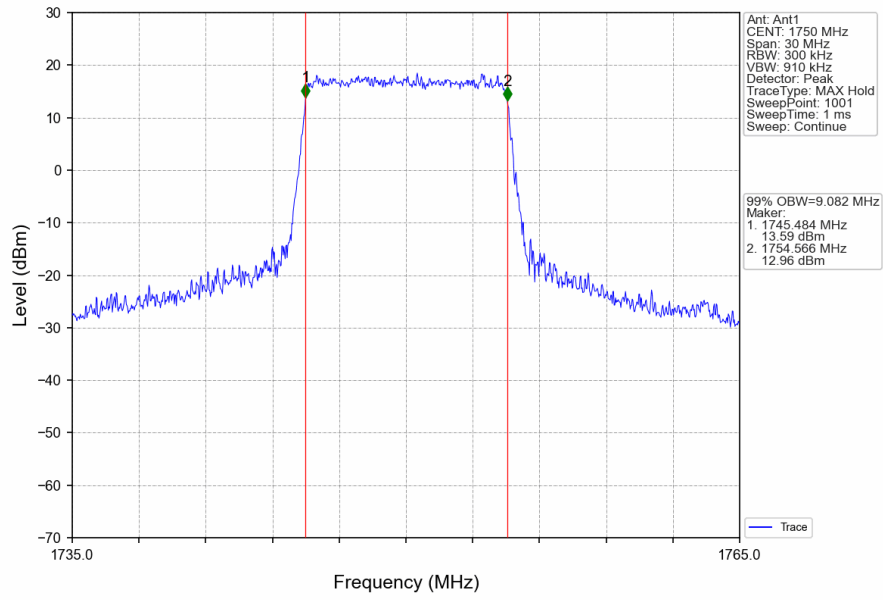
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



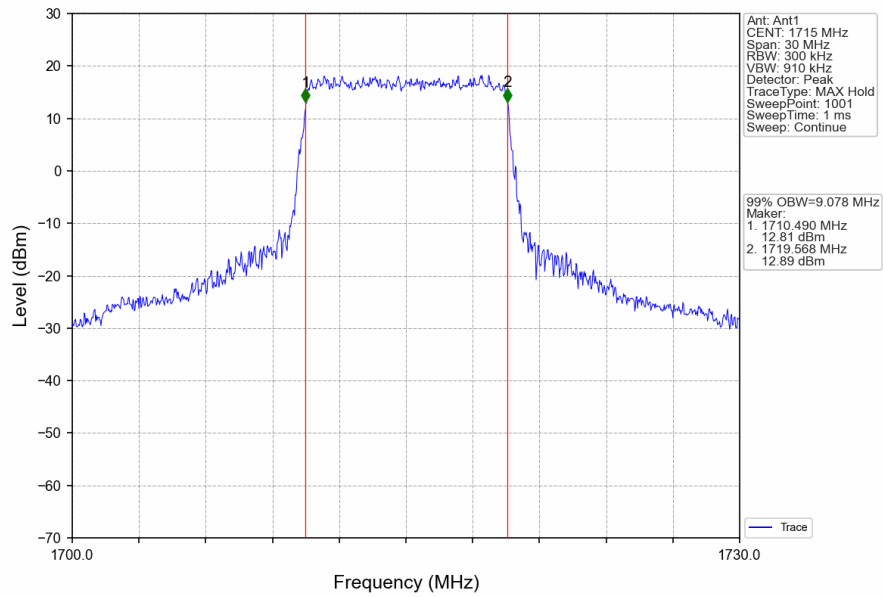
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



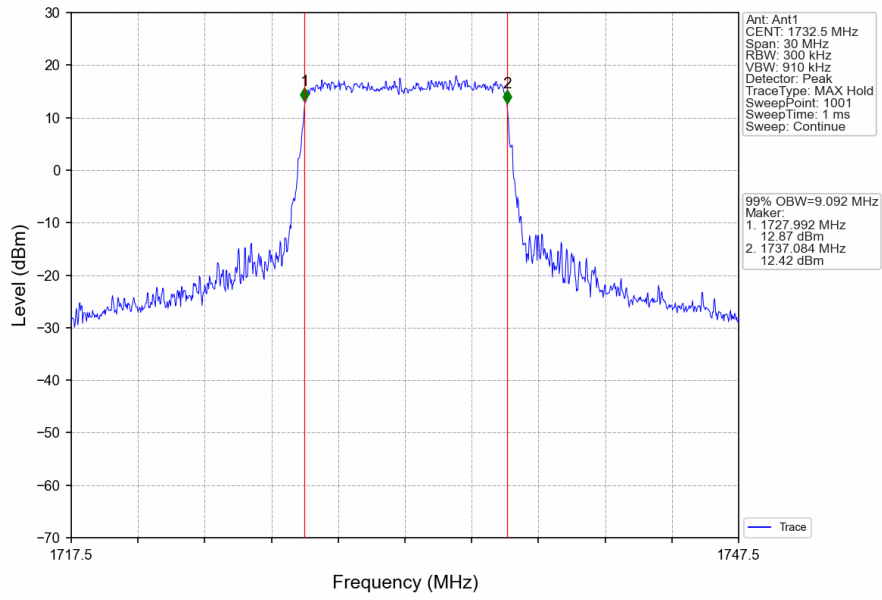
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



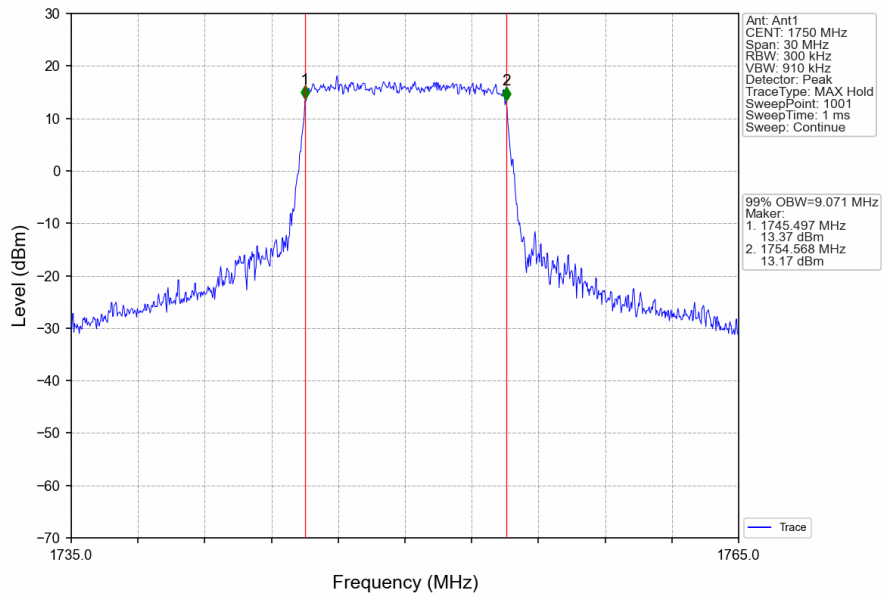
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



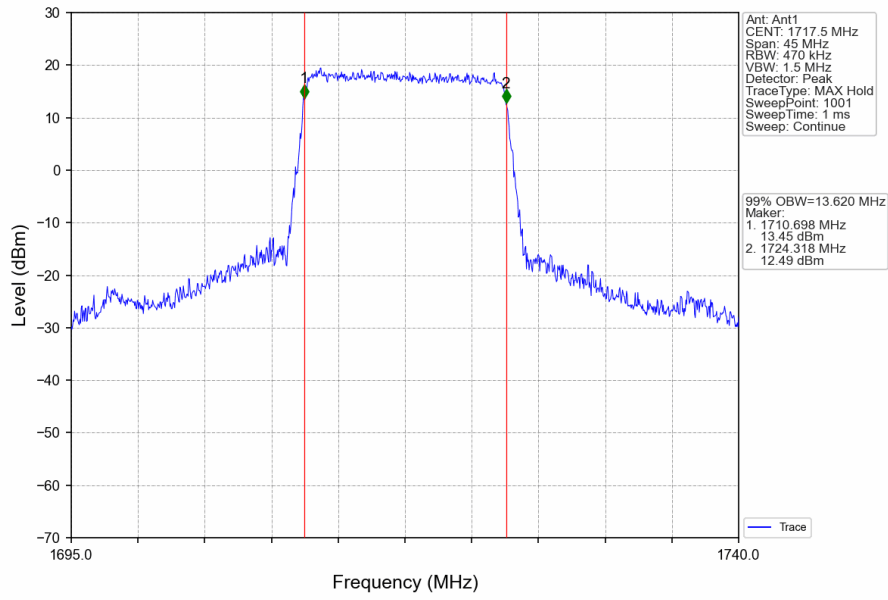
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



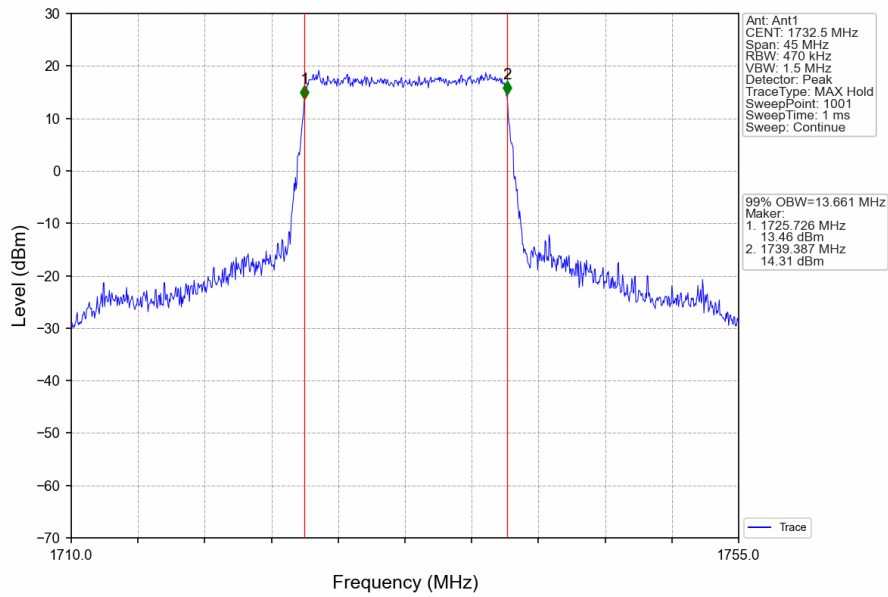
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



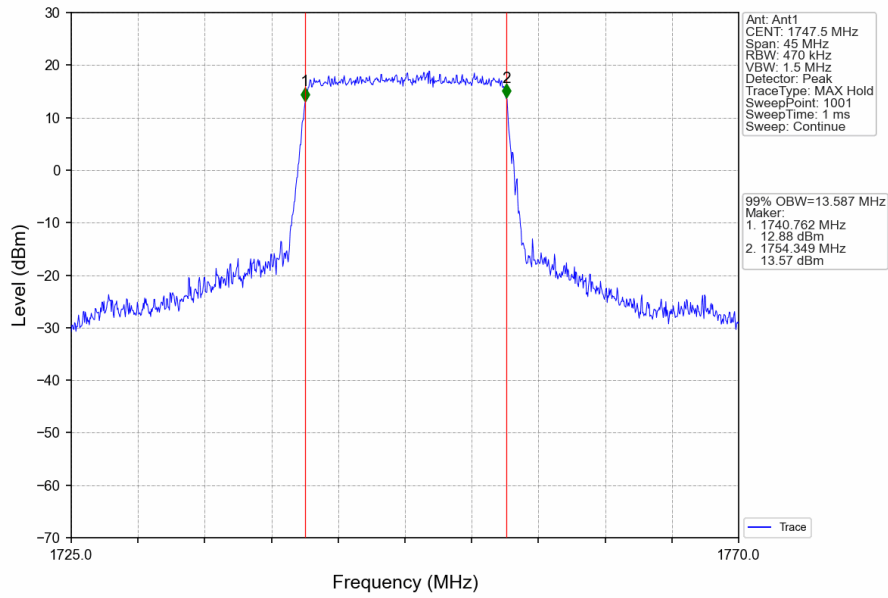
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



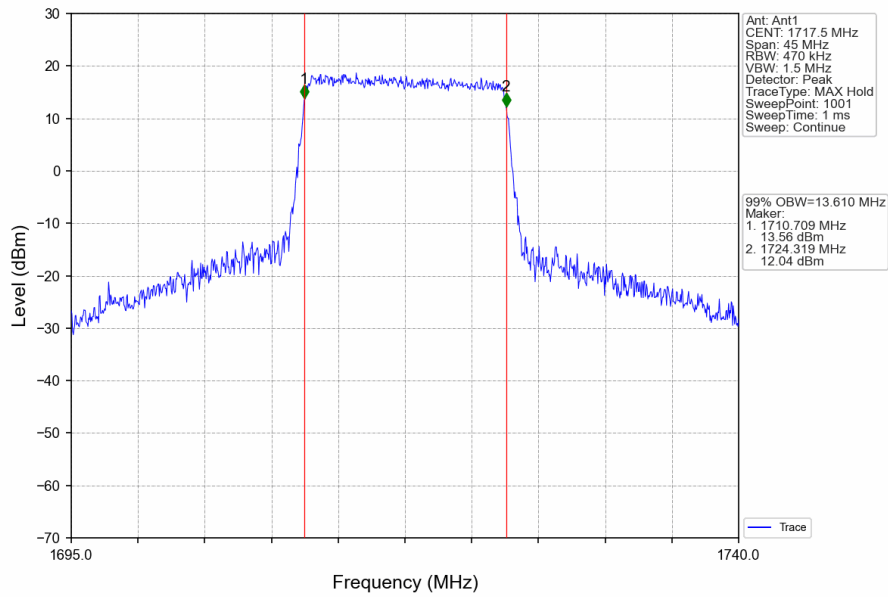
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



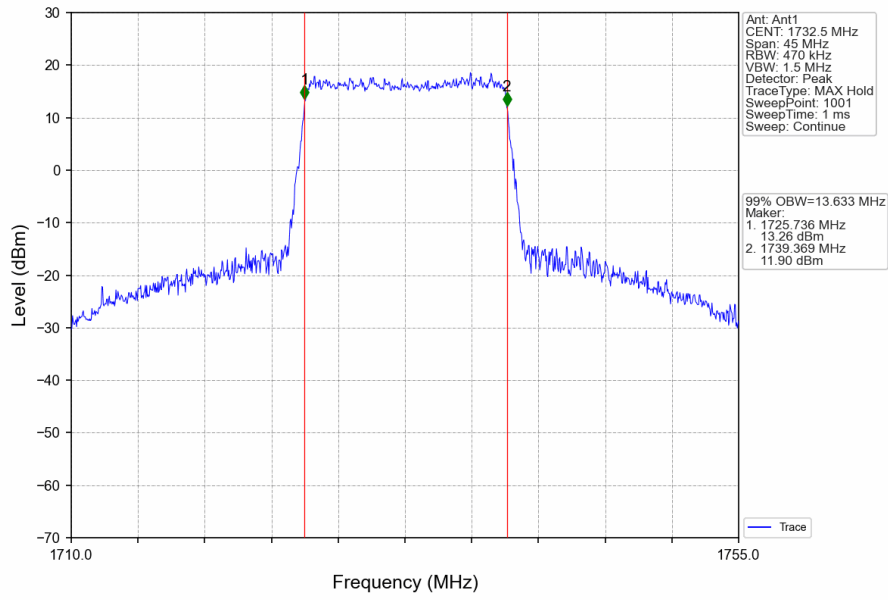
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



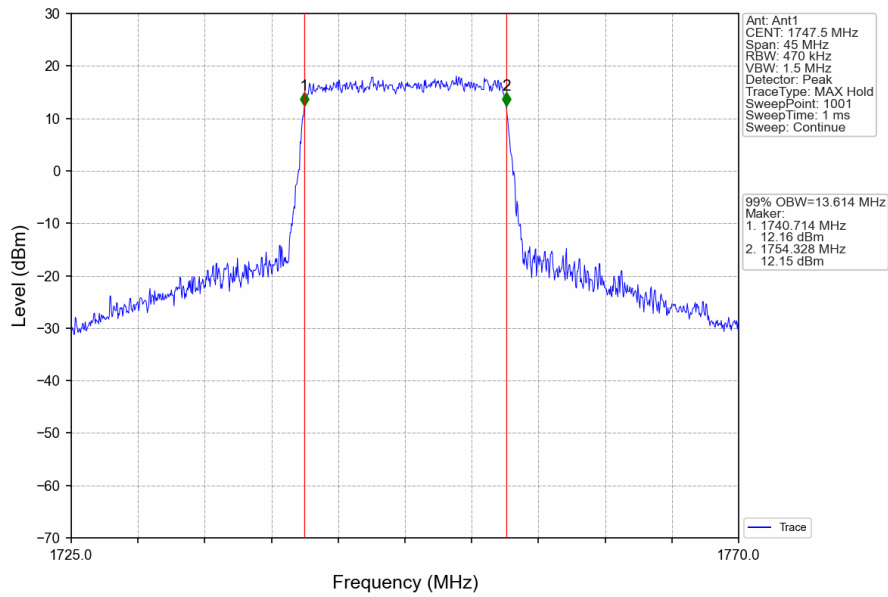
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



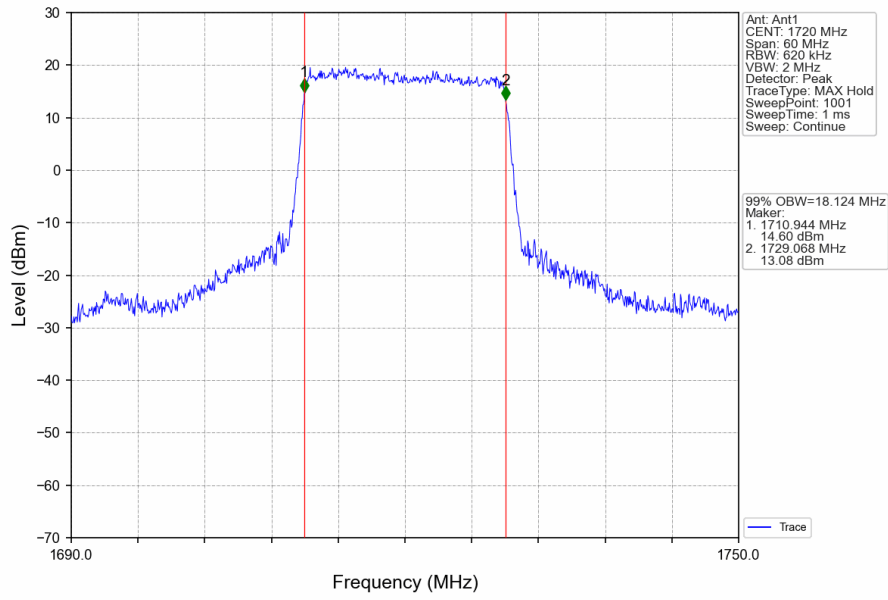
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



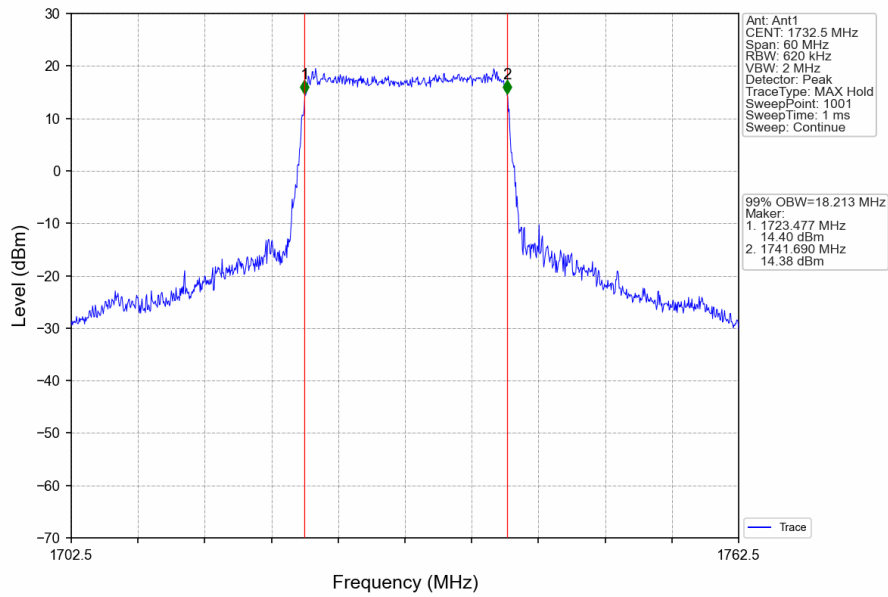
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



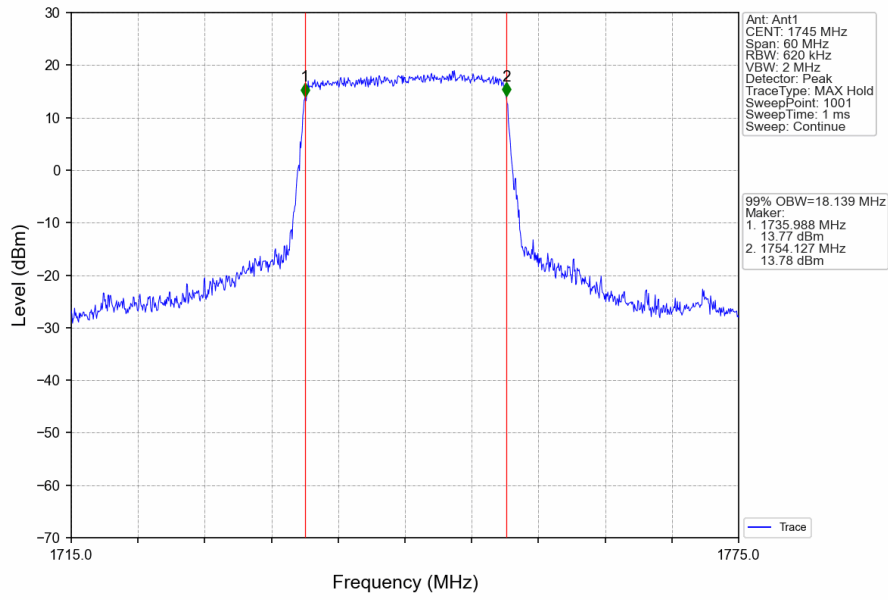
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



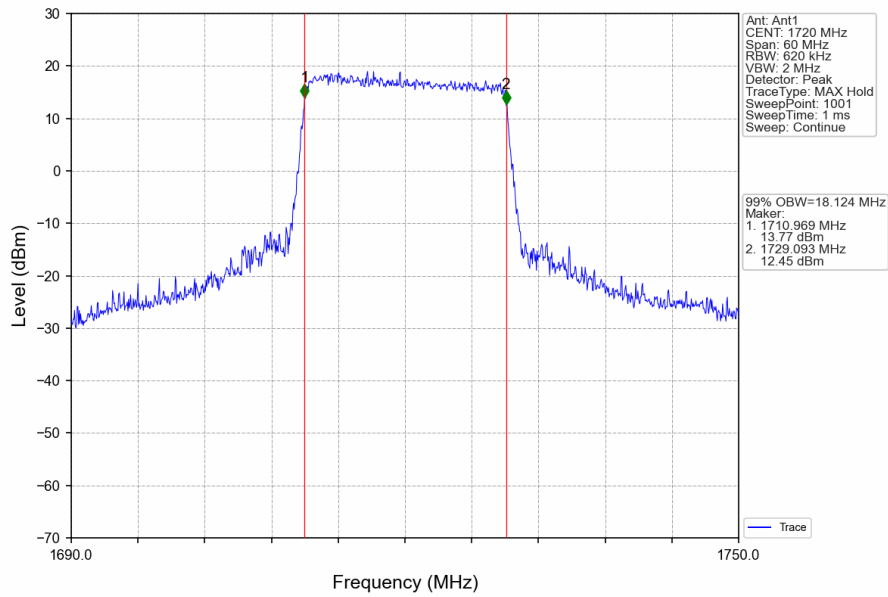
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



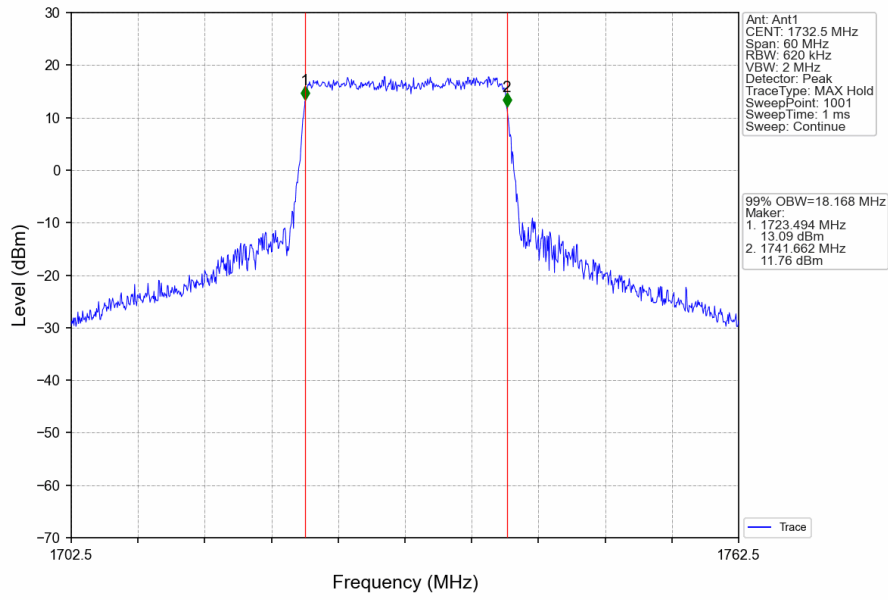
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



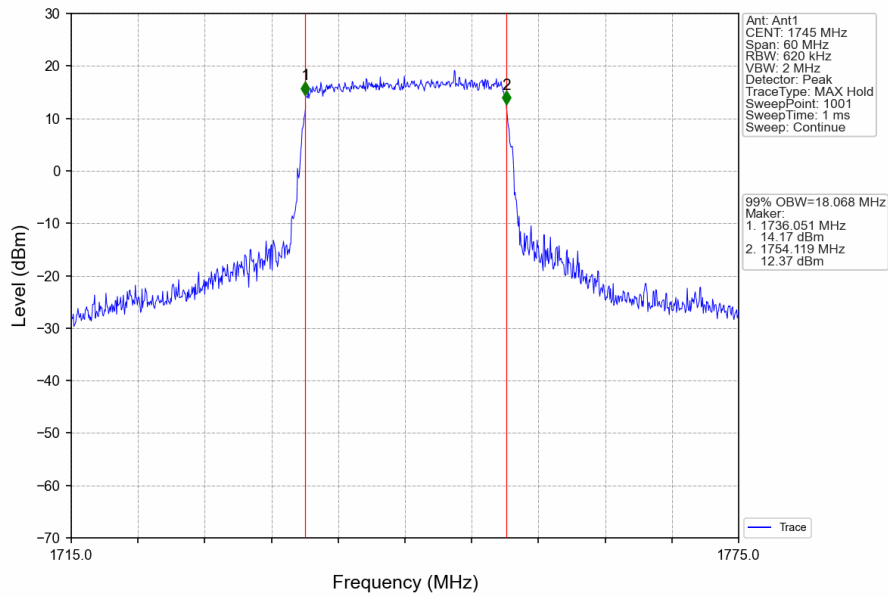
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV

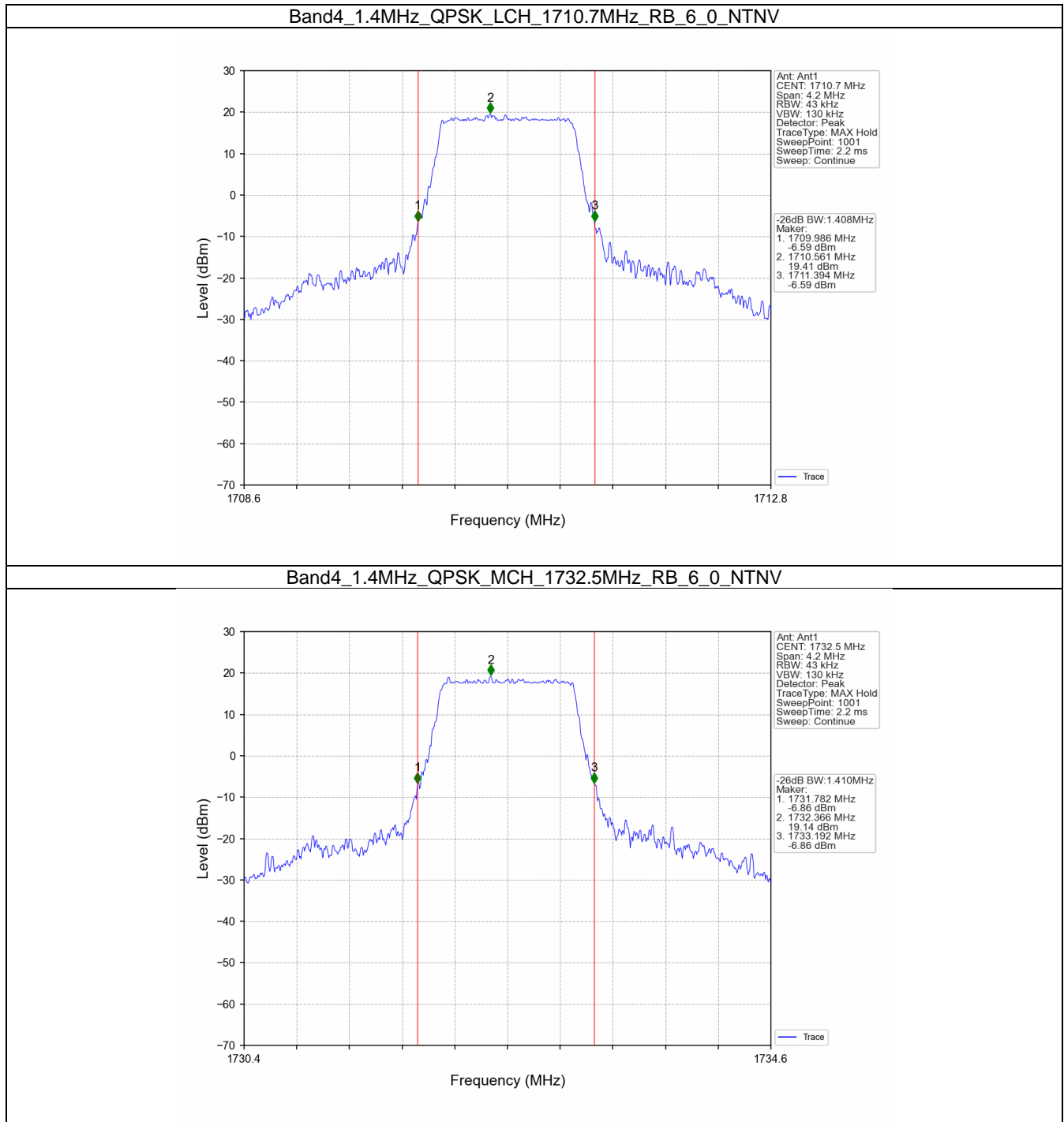


3.2 Band4_XDB

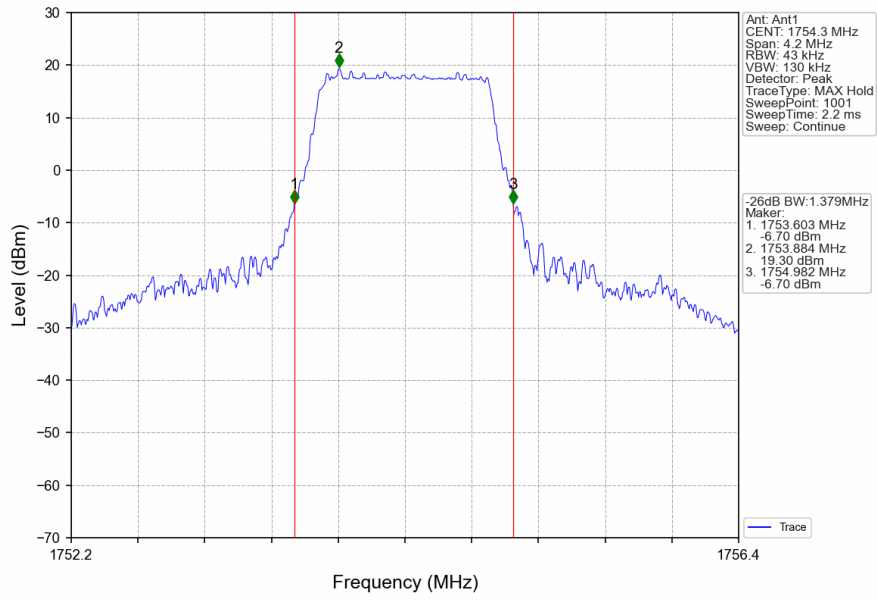
3.2.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.408	/	Pass
		1732.5	6	0	1.410	/	Pass
		1754.3	6	0	1.379	/	Pass
	16QAM	1710.7	6	0	1.380	/	Pass
		1732.5	6	0	1.425	/	Pass
		1754.3	6	0	1.363	/	Pass
3	QPSK	1711.5	15	0	3.138	/	Pass
		1732.5	15	0	3.132	/	Pass
		1753.5	15	0	3.116	/	Pass
	16QAM	1711.5	15	0	3.119	/	Pass
		1732.5	15	0	3.110	/	Pass
		1753.5	15	0	3.093	/	Pass
5	QPSK	1712.5	25	0	5.207	/	Pass
		1732.5	25	0	5.284	/	Pass
		1752.5	25	0	5.265	/	Pass
	16QAM	1712.5	25	0	5.169	/	Pass
		1732.5	25	0	5.217	/	Pass
		1752.5	25	0	5.194	/	Pass
10	QPSK	1715	50	0	10.214	/	Pass
		1732.5	50	0	10.242	/	Pass
		1750	50	0	10.157	/	Pass
	16QAM	1715	50	0	10.243	/	Pass
		1732.5	50	0	10.232	/	Pass
		1750	50	0	10.111	/	Pass
15	QPSK	1717.5	75	0	15.226	/	Pass
		1732.5	75	0	15.208	/	Pass
		1747.5	75	0	15.139	/	Pass
	16QAM	1717.5	75	0	15.211	/	Pass
		1732.5	75	0	15.175	/	Pass
		1747.5	75	0	15.158	/	Pass
20	QPSK	1720	100	0	19.977	/	Pass
		1732.5	100	0	20.284	/	Pass
		1745	100	0	20.069	/	Pass
	16QAM	1720	100	0	20.040	/	Pass
		1732.5	100	0	20.370	/	Pass
		1745	100	0	19.879	/	Pass

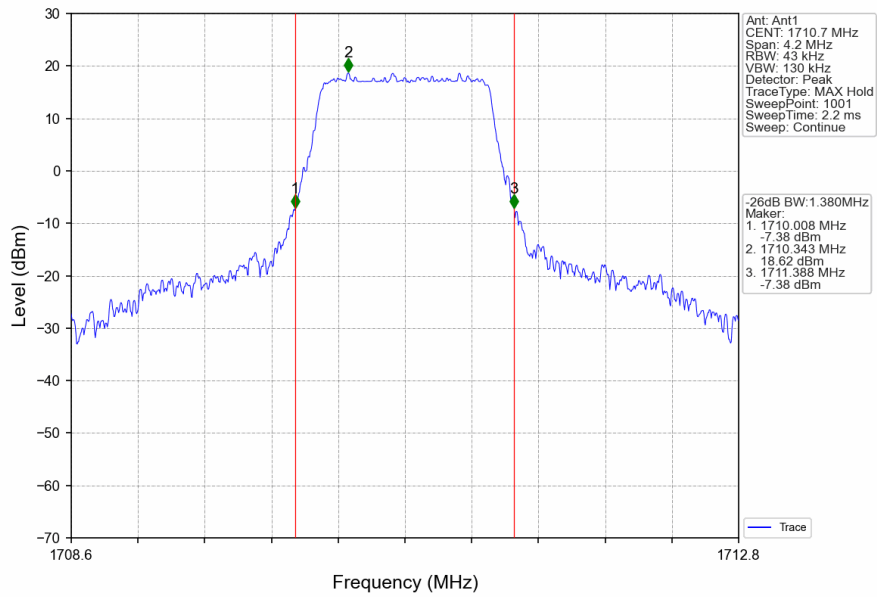
3.2.2 Test Graph



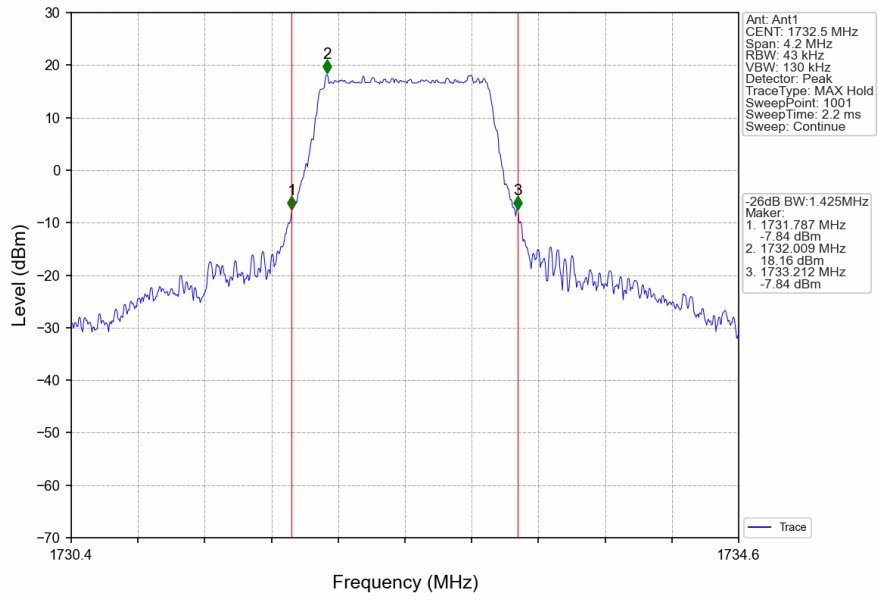
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



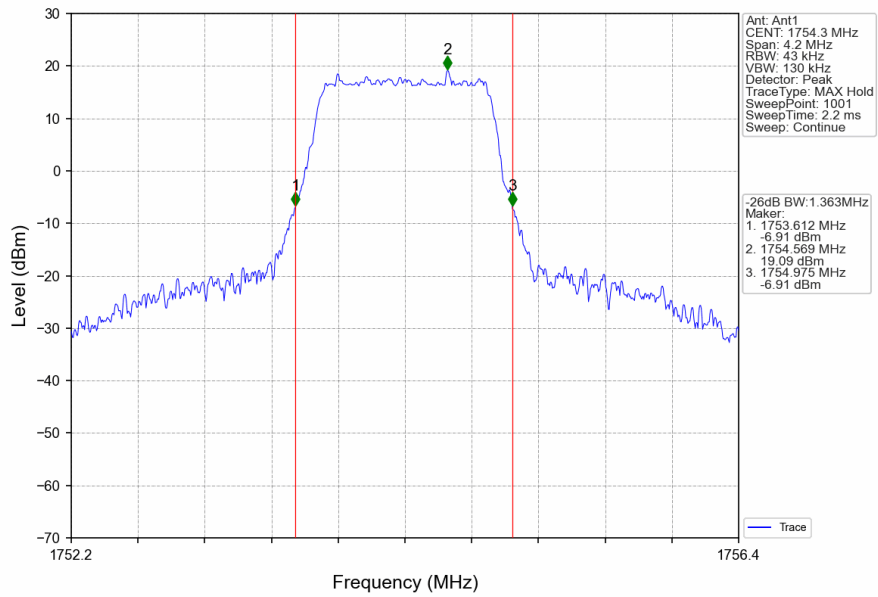
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



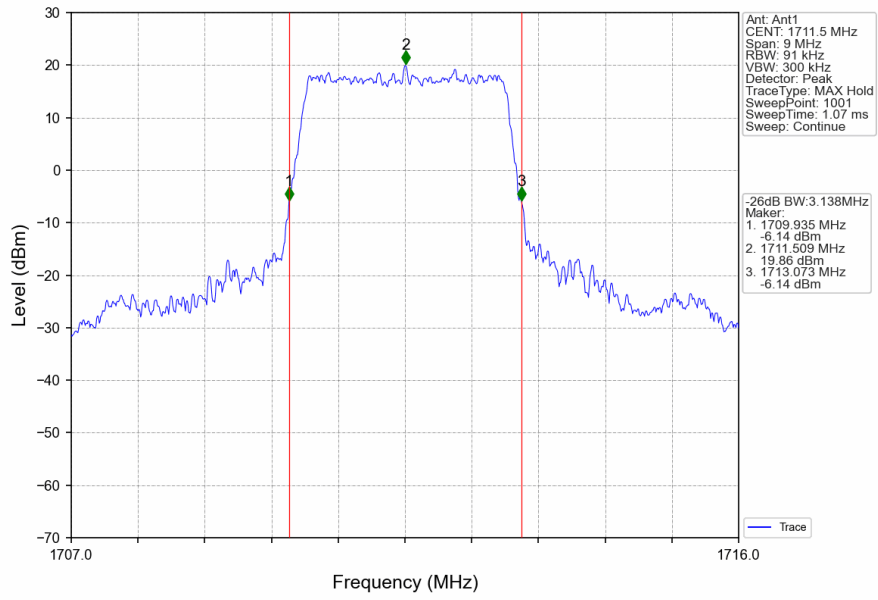
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



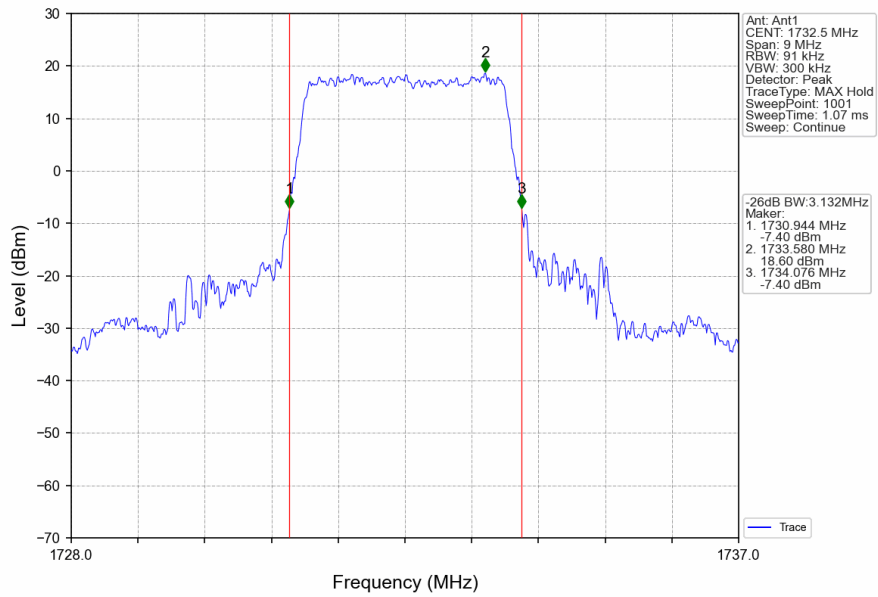
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



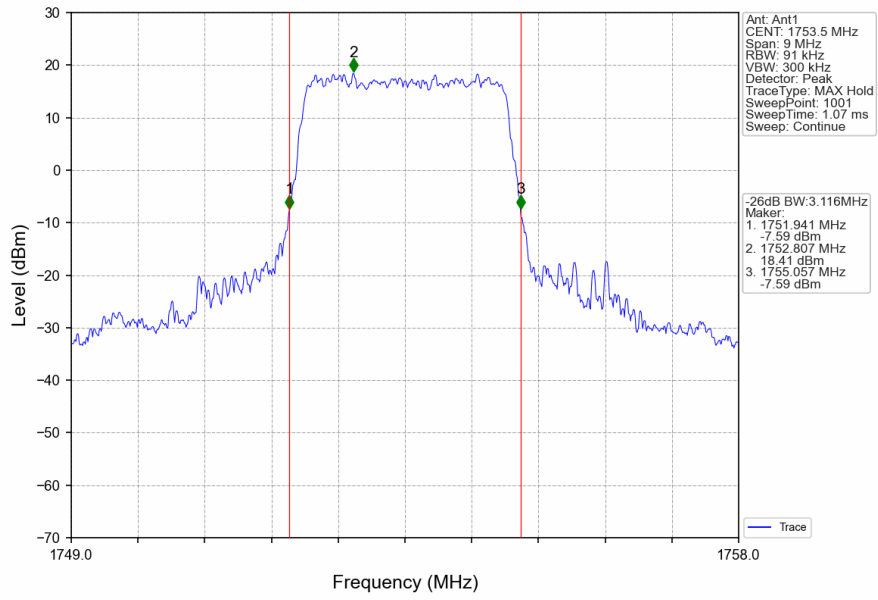
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



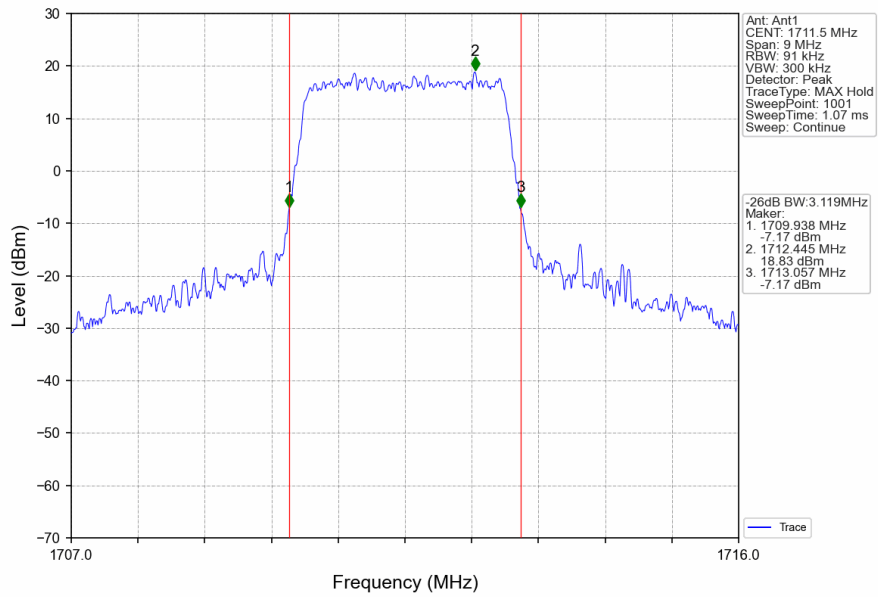
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



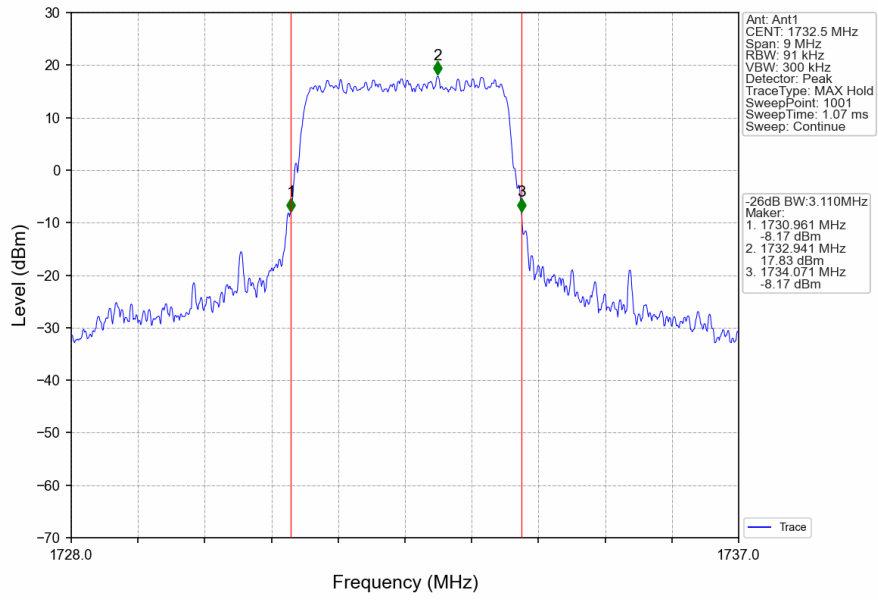
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



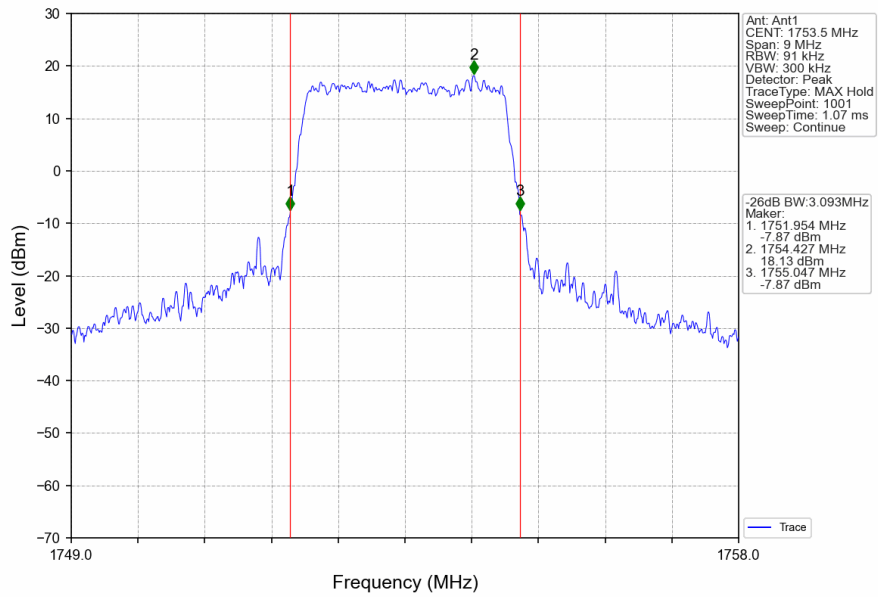
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



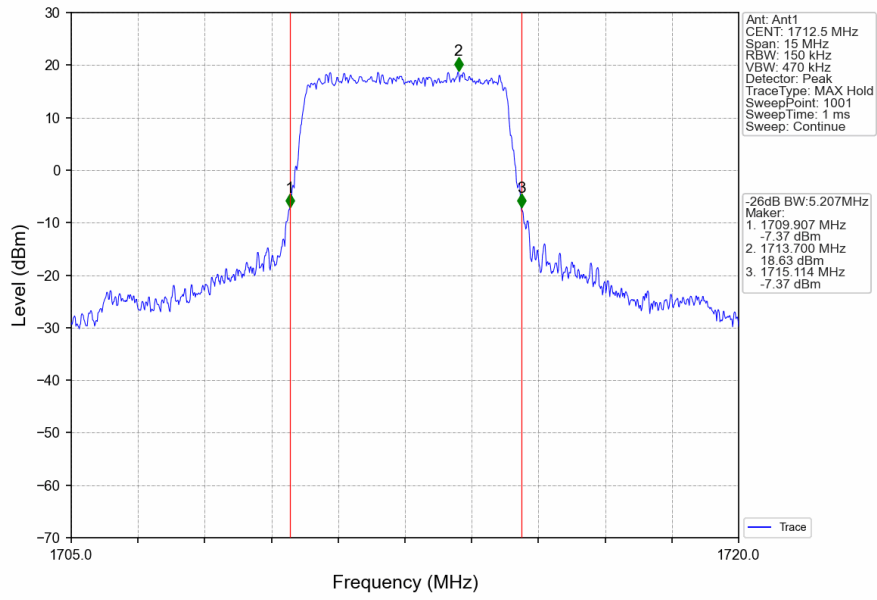
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



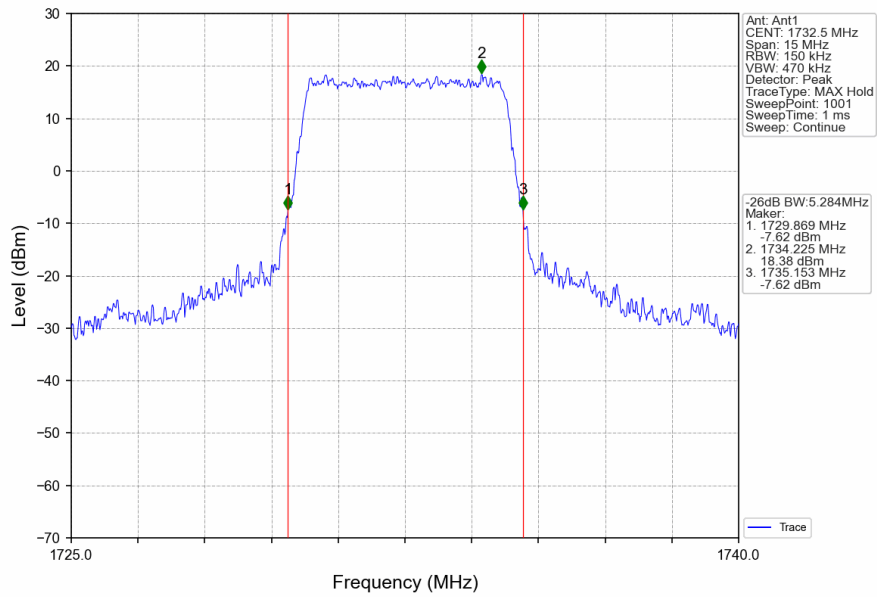
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



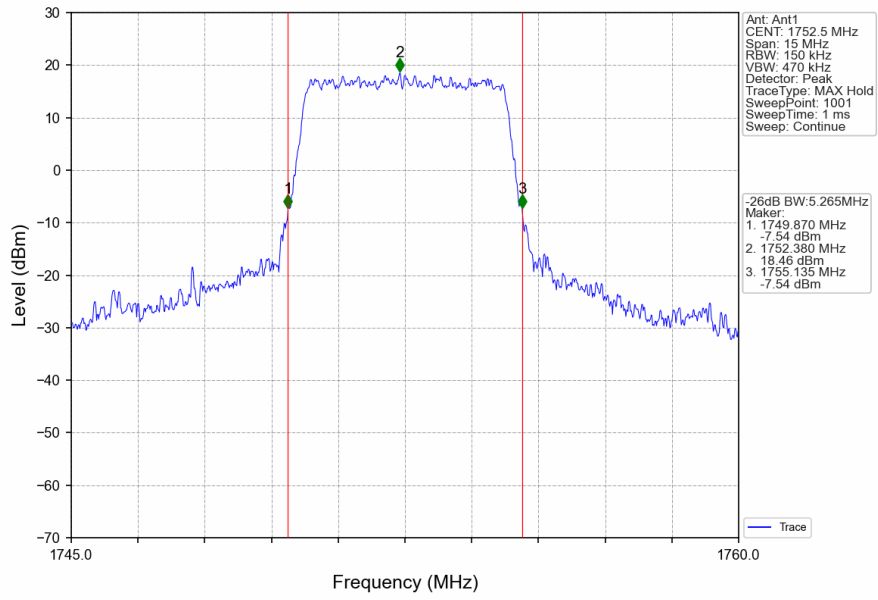
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



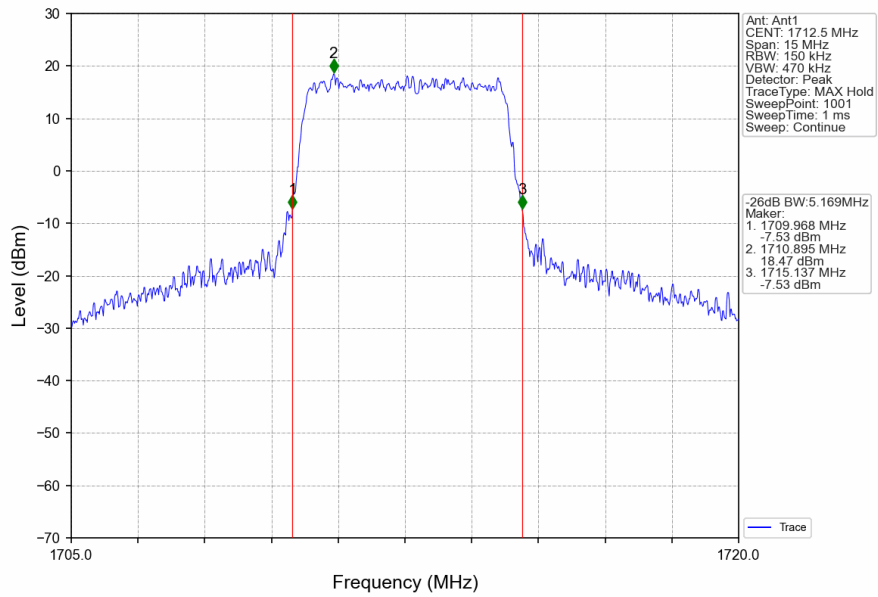
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



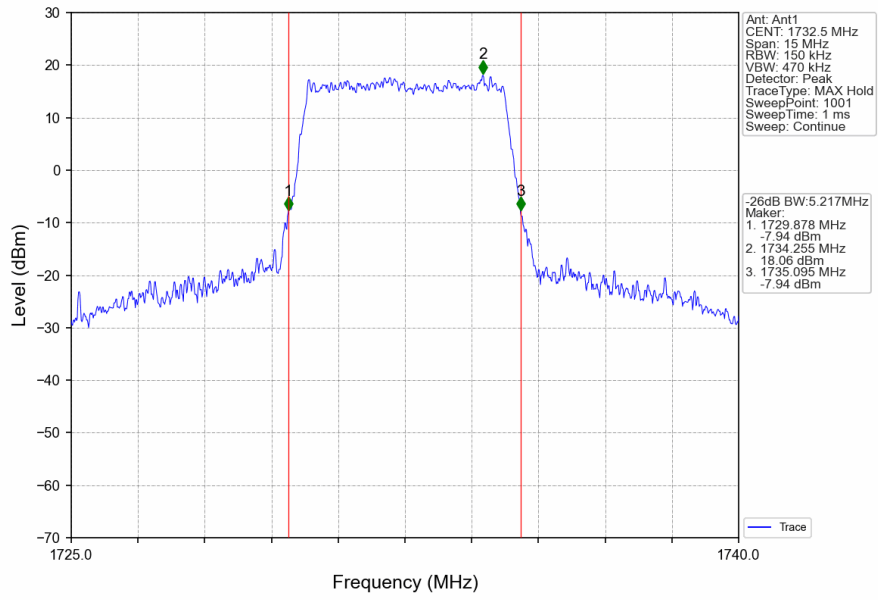
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



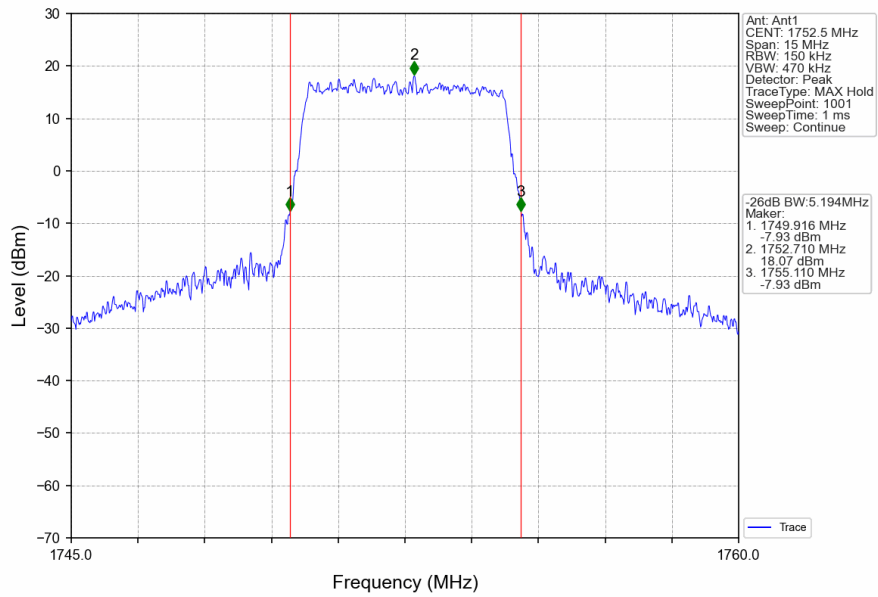
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



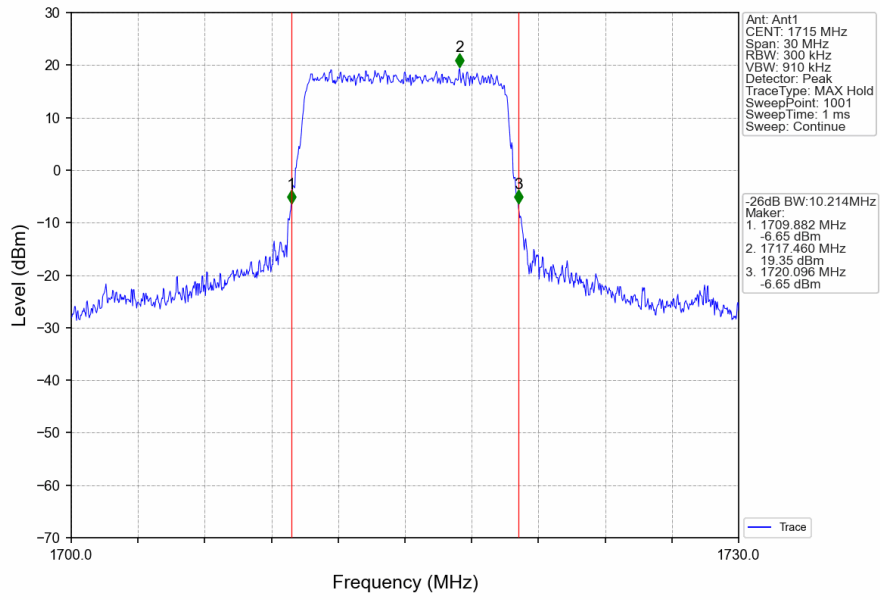
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



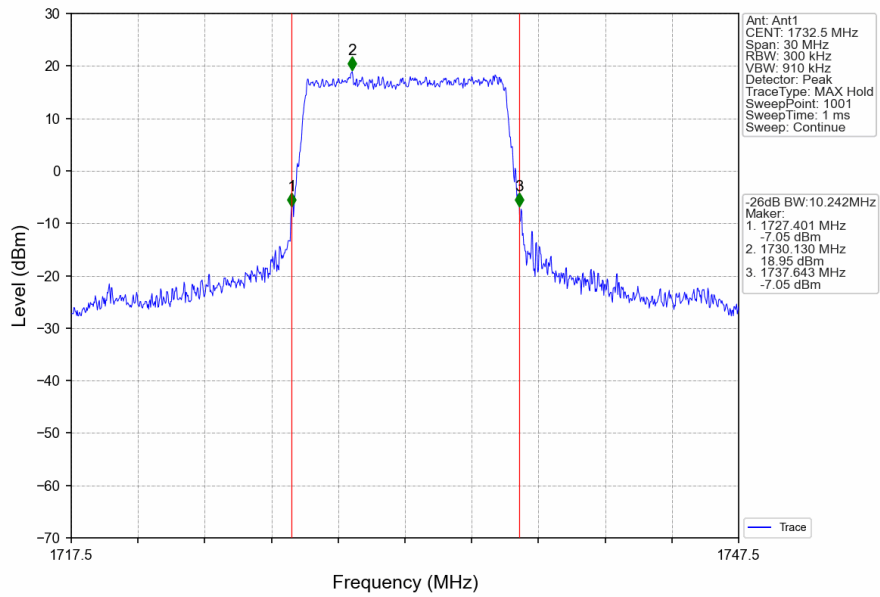
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



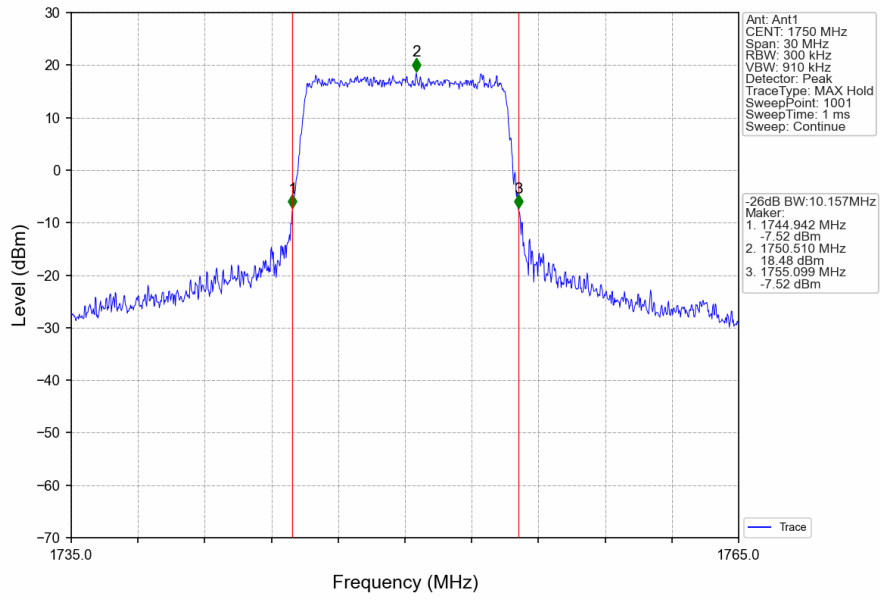
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



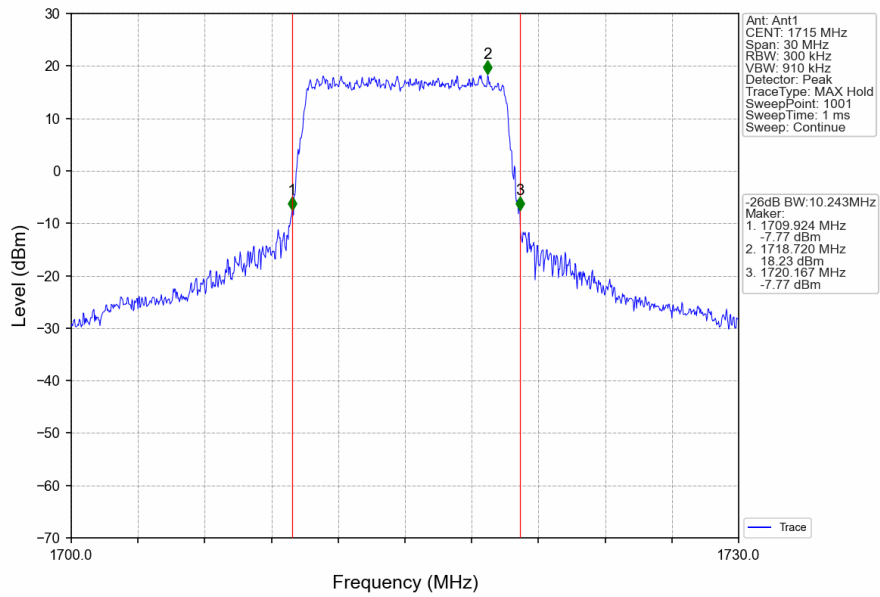
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



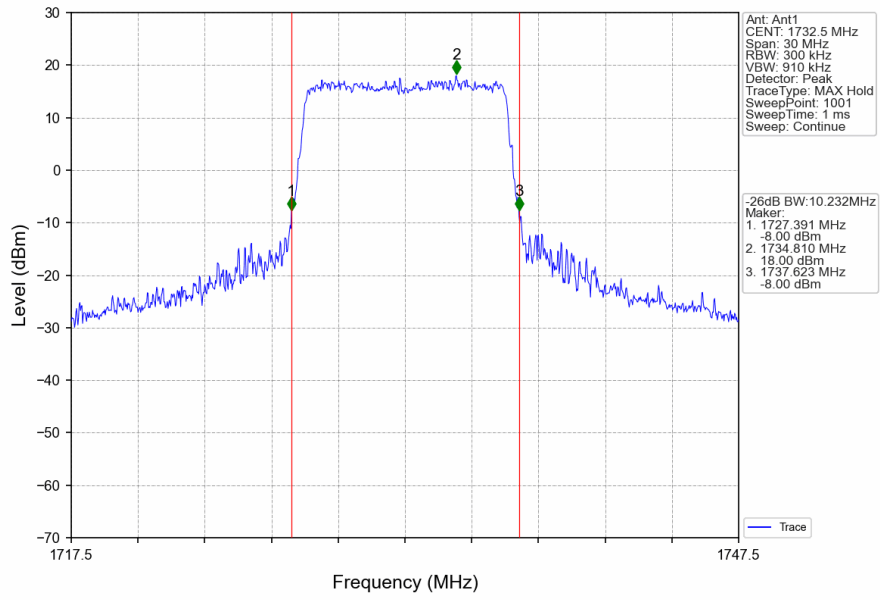
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



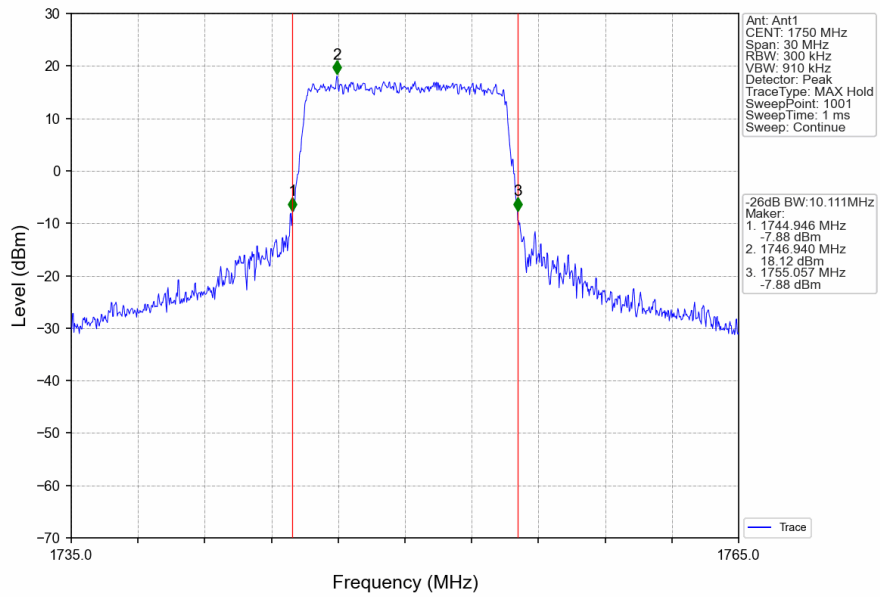
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



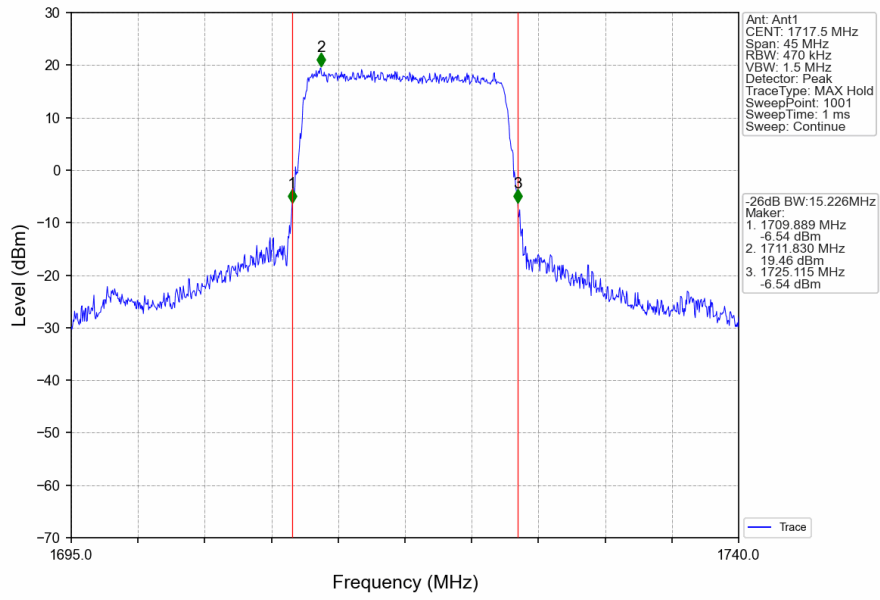
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



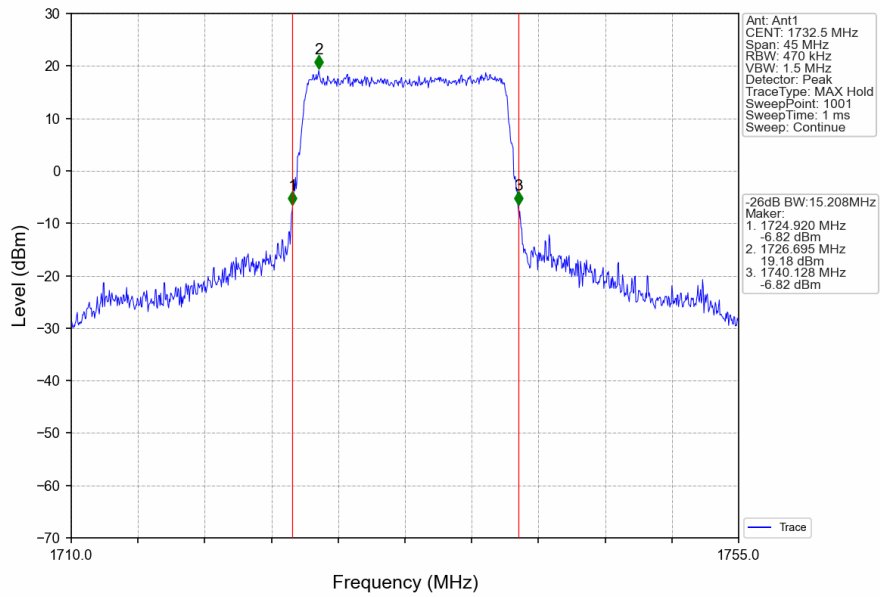
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



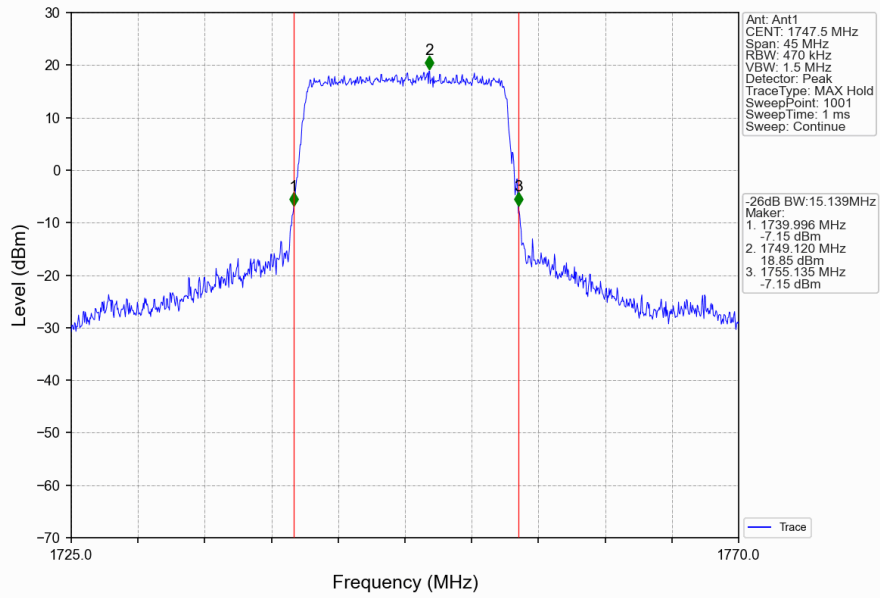
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



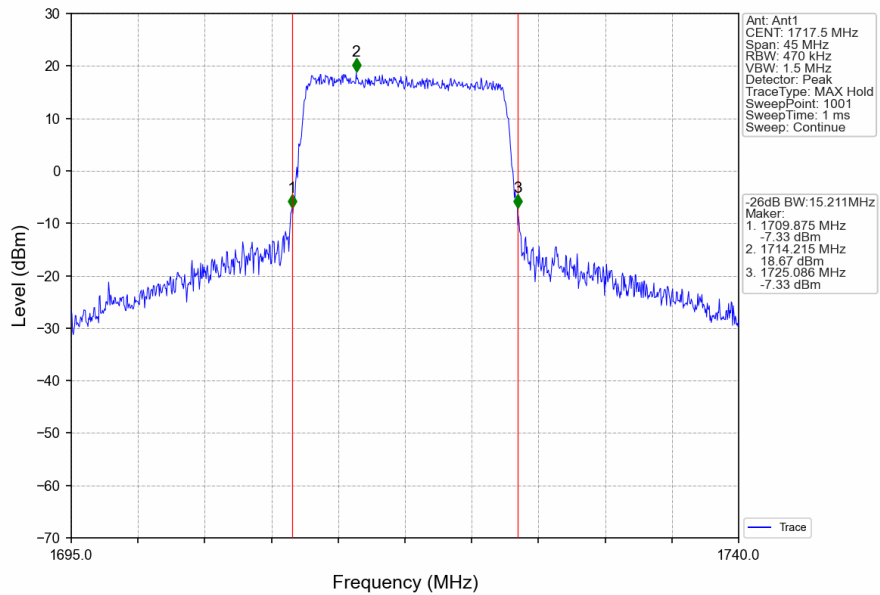
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



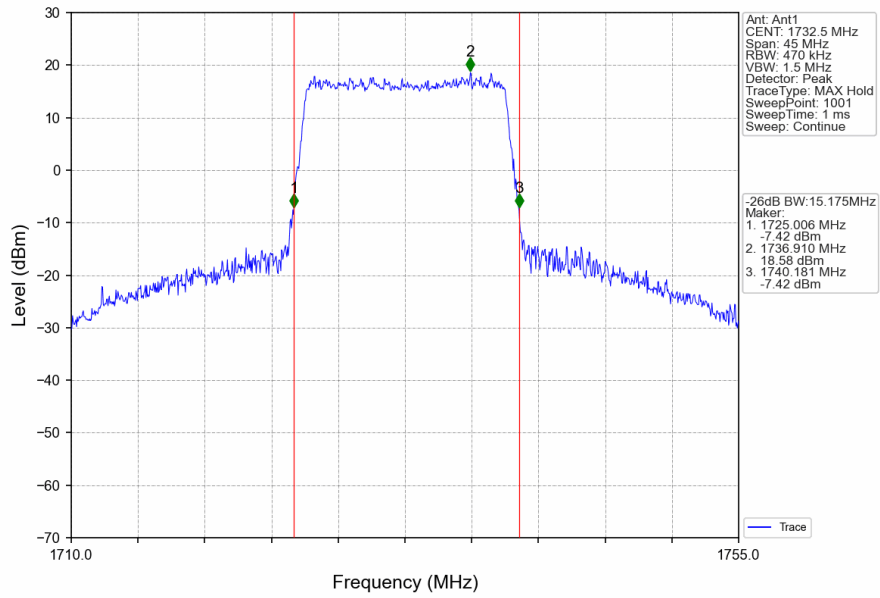
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



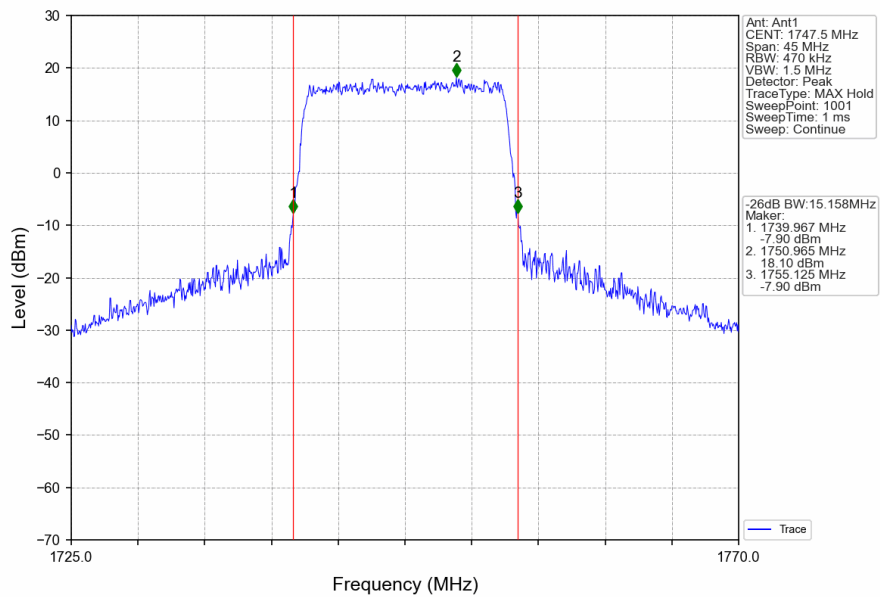
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



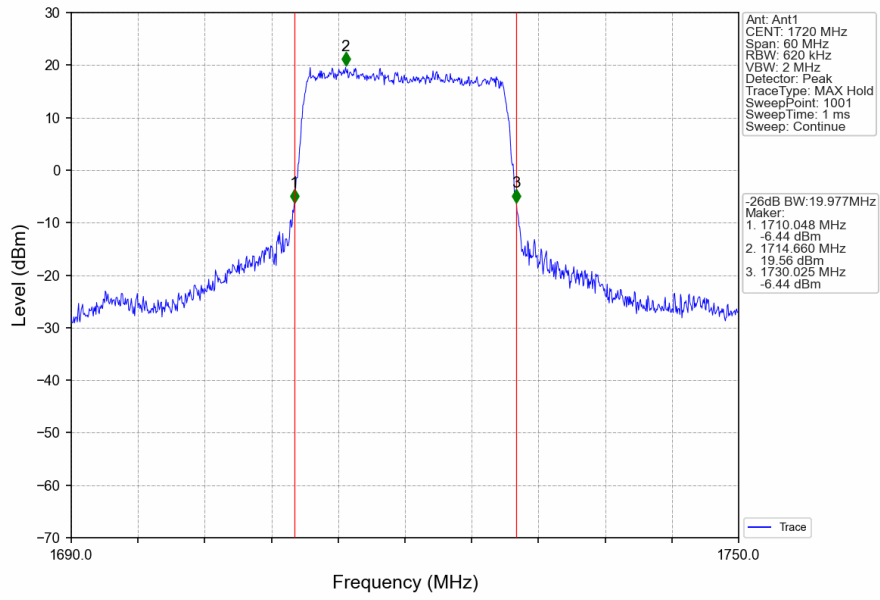
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



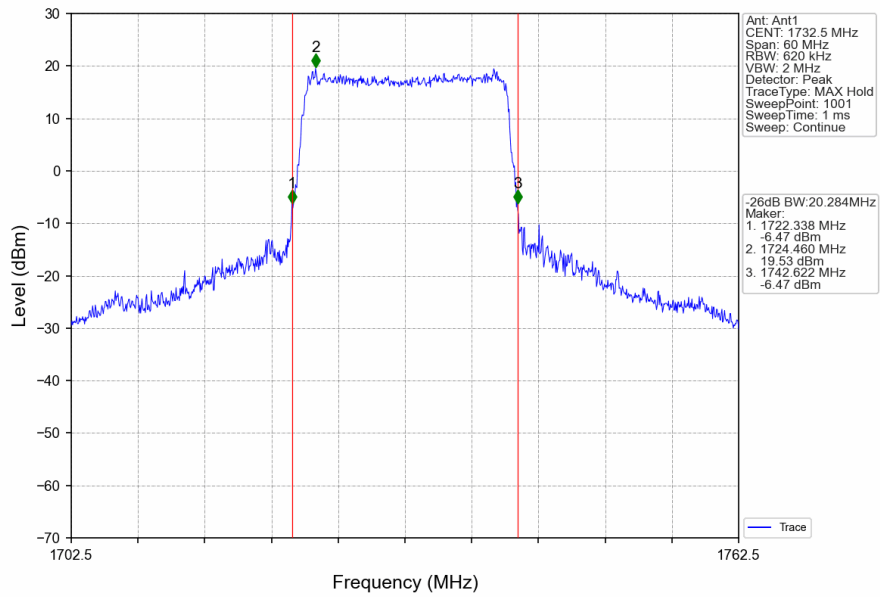
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



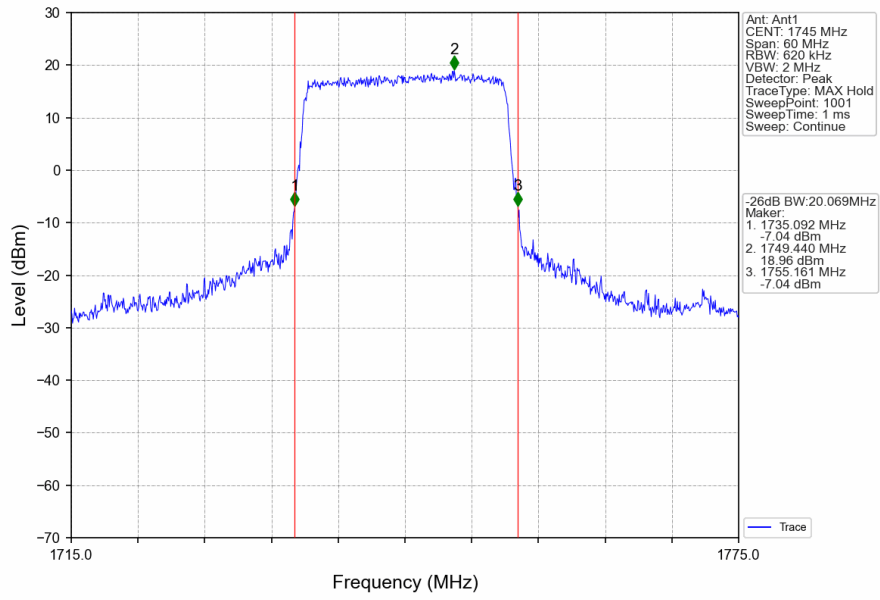
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



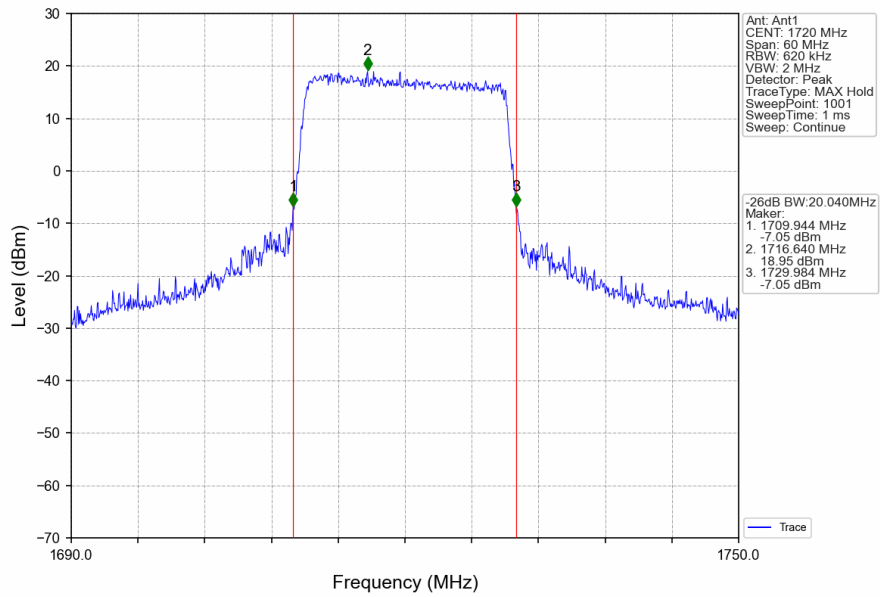
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



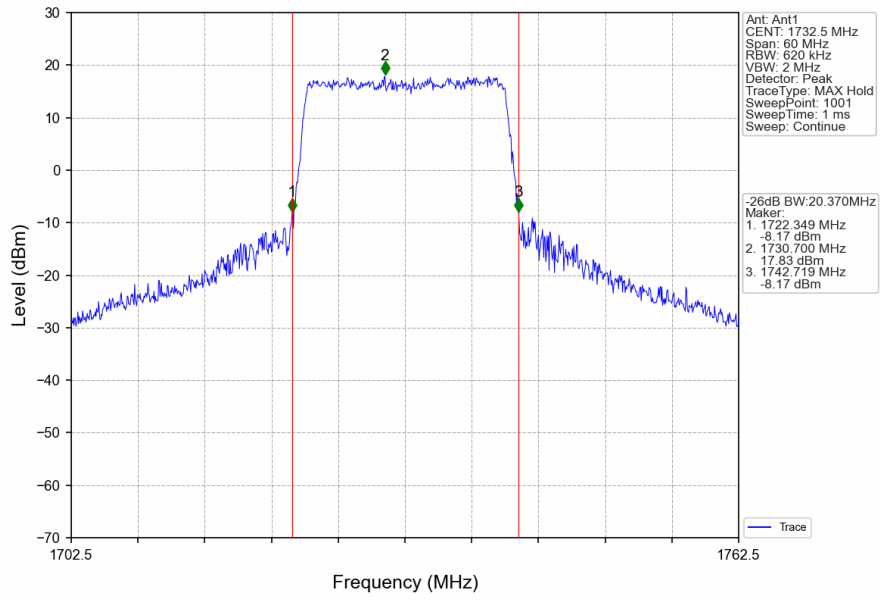
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



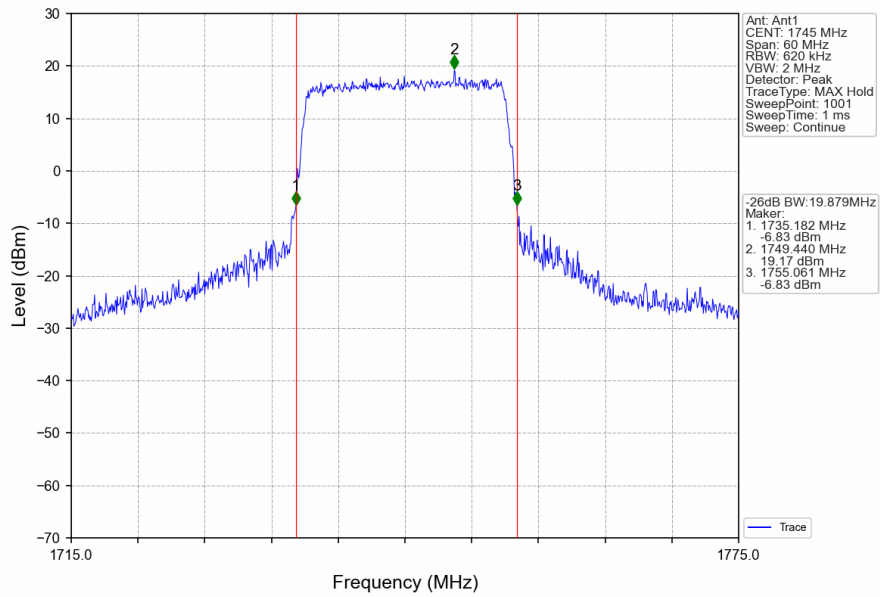
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



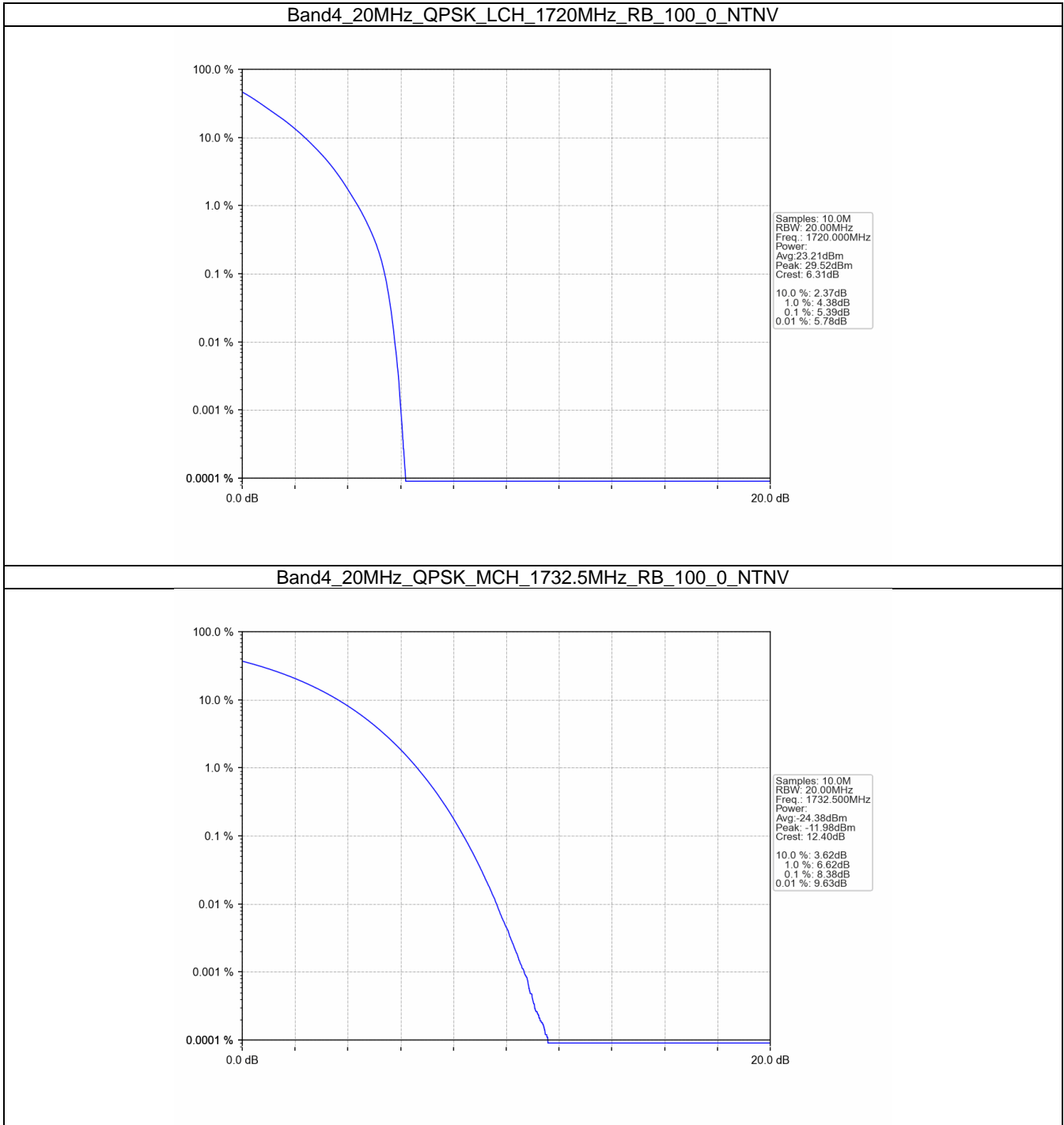
4. Peak-Average Ratio

4.1 B4_20MHz

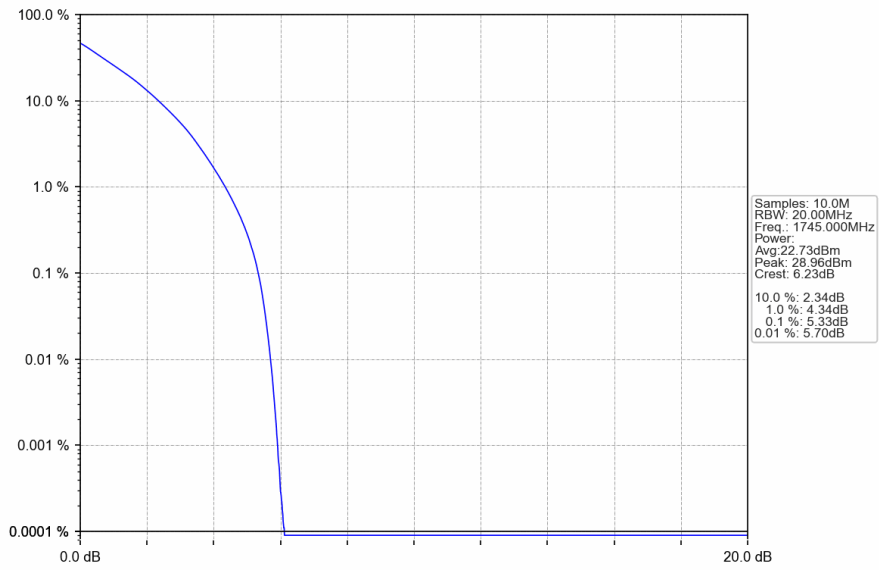
4.1.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.39	<=13	Pass
	1732.5	100	0	8.38	<=13	Pass
	1745	100	0	5.33	<=13	Pass
16QAM	1720	100	0	6.21	<=13	Pass
	1732.5	100	0	6.34	<=13	Pass
	1745	100	0	6.17	<=13	Pass

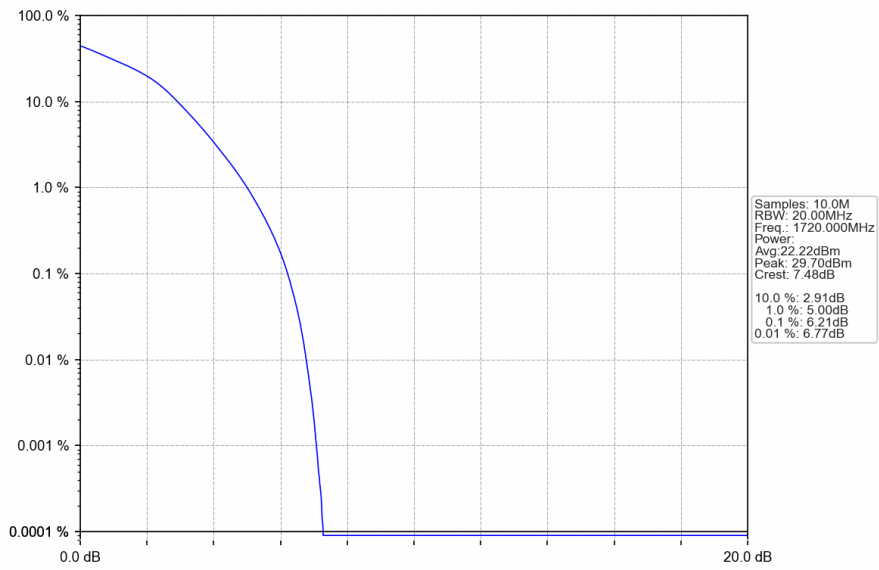
4.1.2 Test Graph



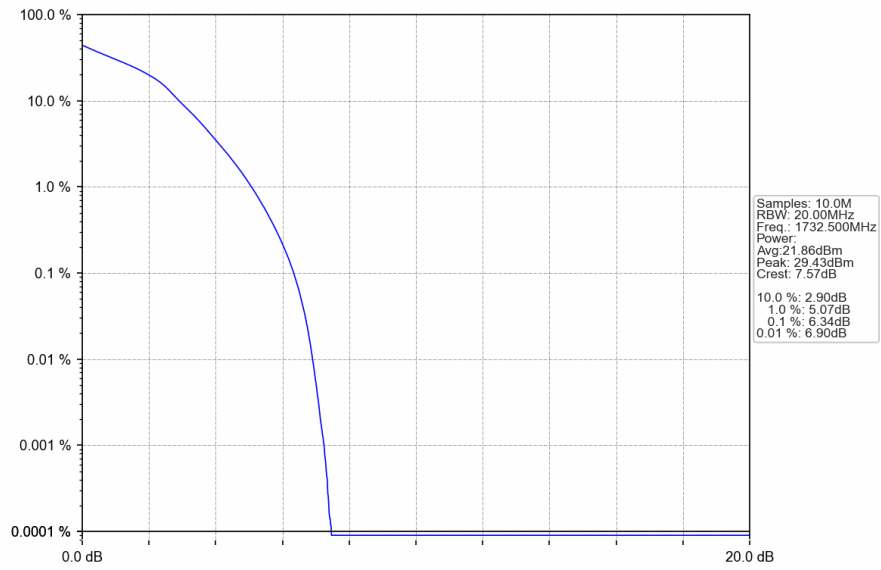
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



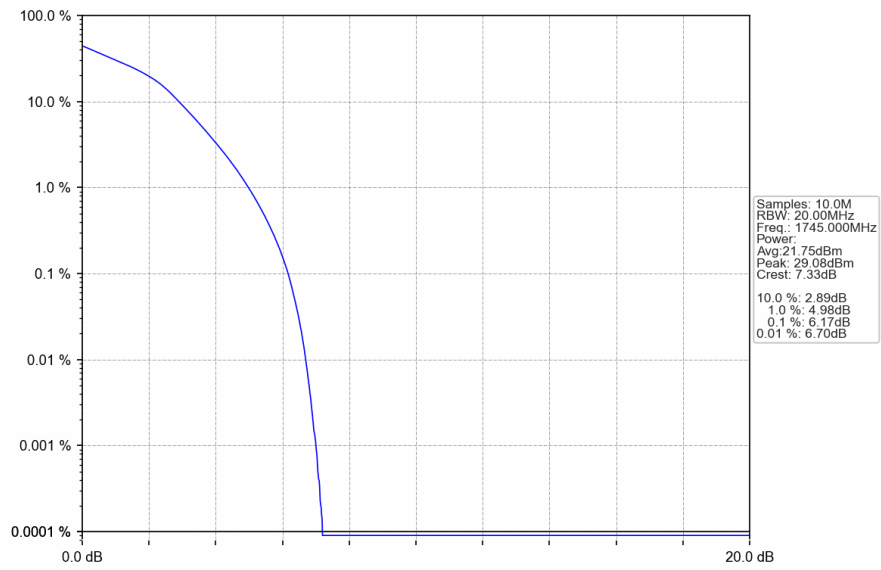
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



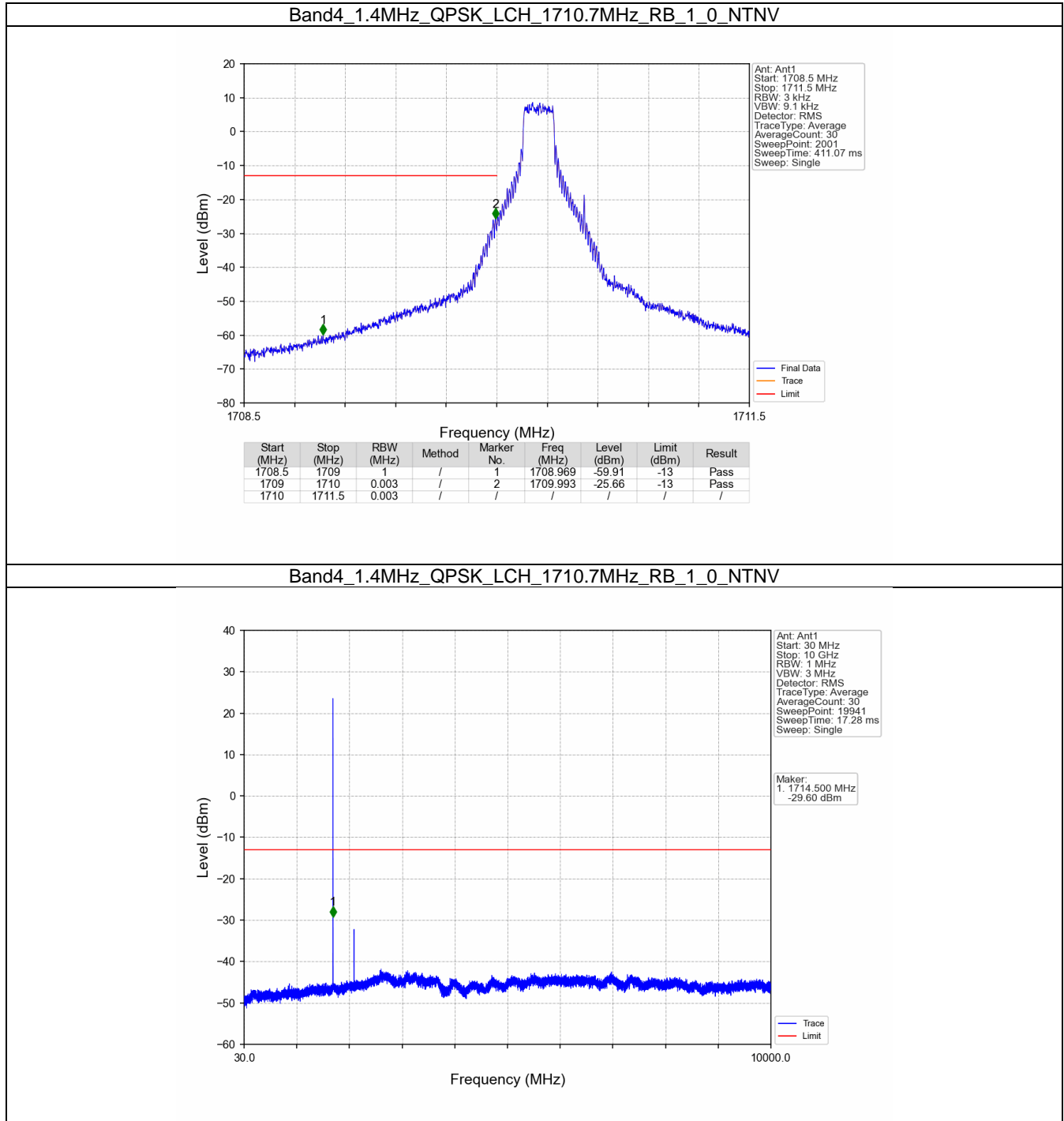
5. Spurious Emission

5.1 B4_1.4MHz

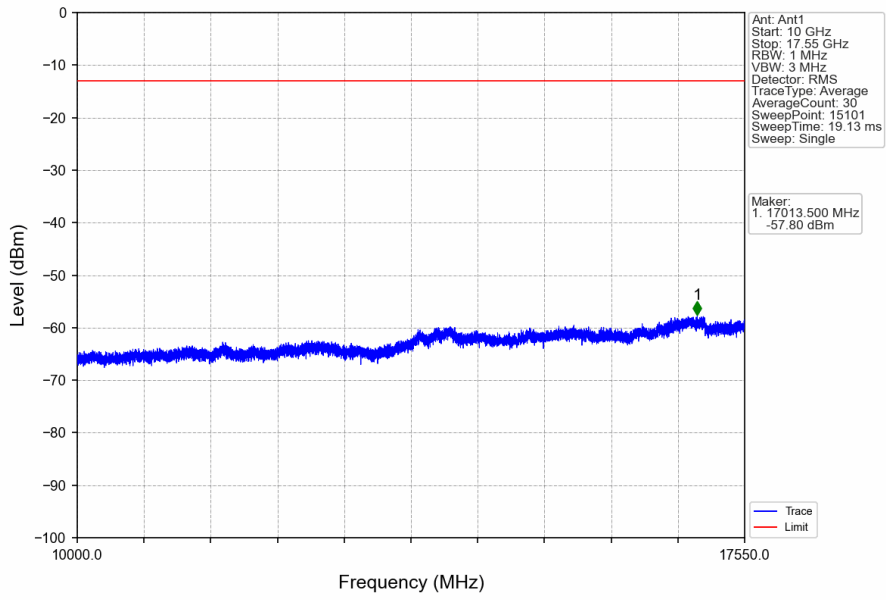
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	
	1732.5	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	1754.3	1	0	Refer To Test Graph	Pass	
		6	0	Refer To Test Graph	Pass	

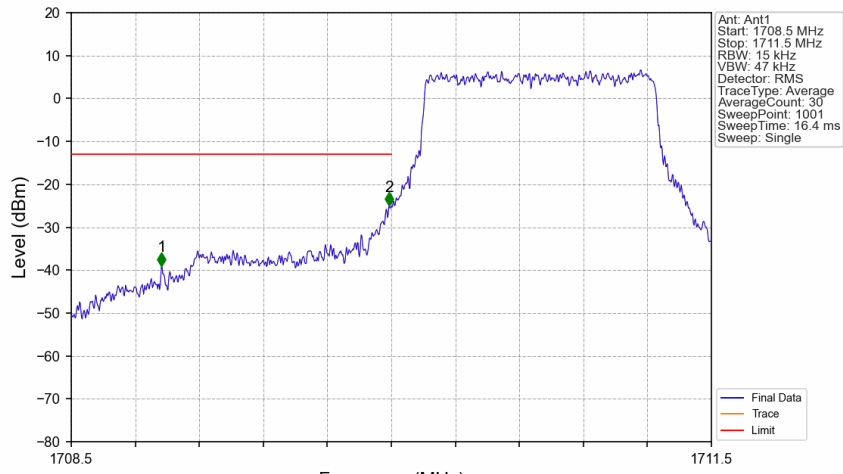
5.1.2 Test Graph



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

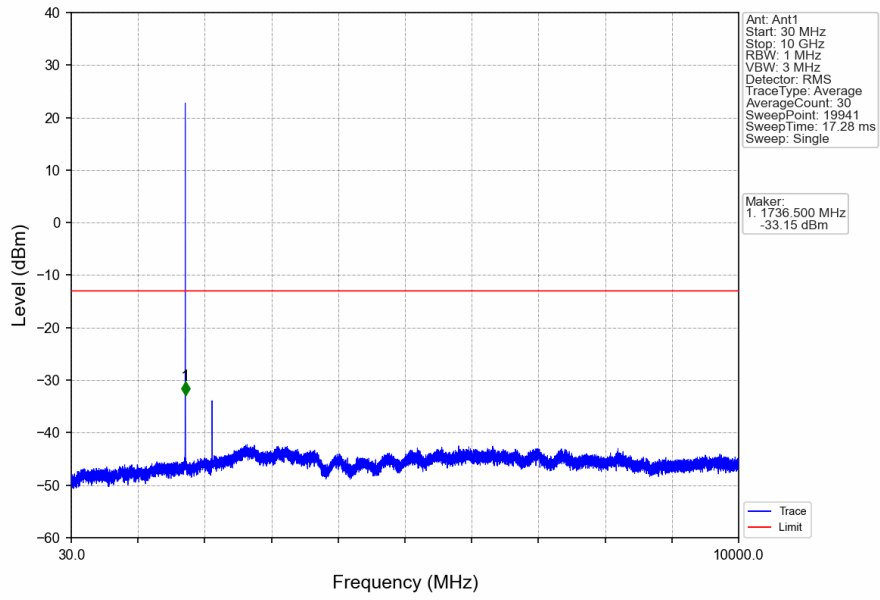


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

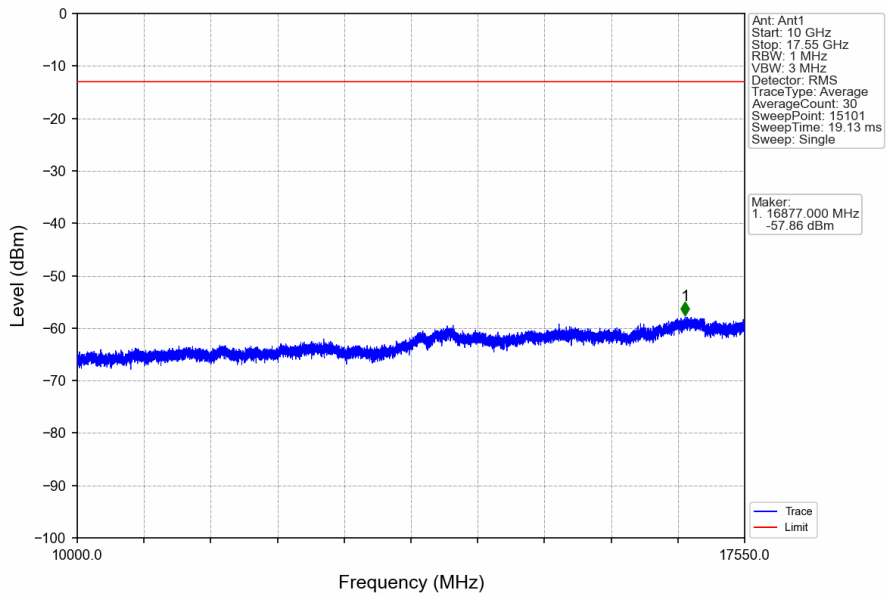


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.923	-38.99	-13	Pass
1709	1710	0.015	/	2	1709.991	-25.01	-13	Pass
1710	1711.5	0.015	/	/	/	/	/	/

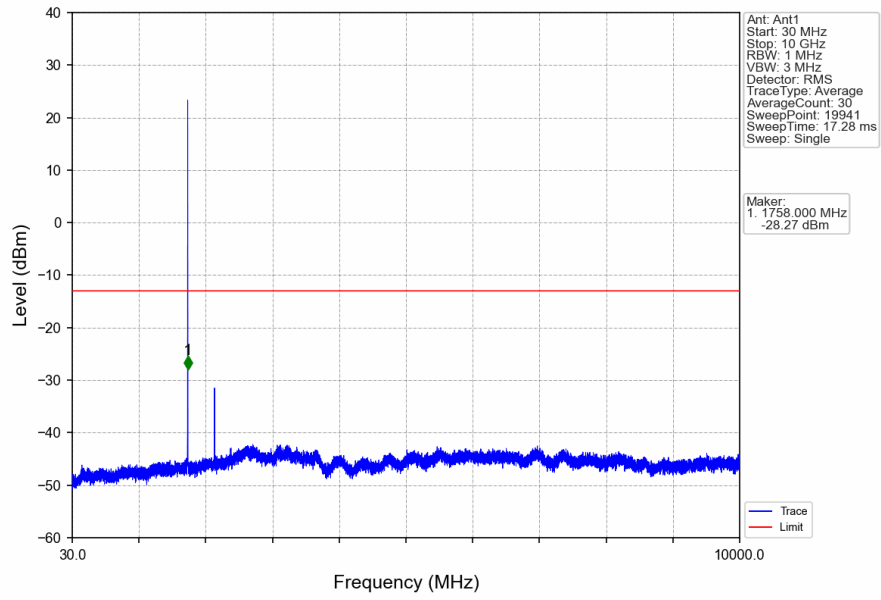
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



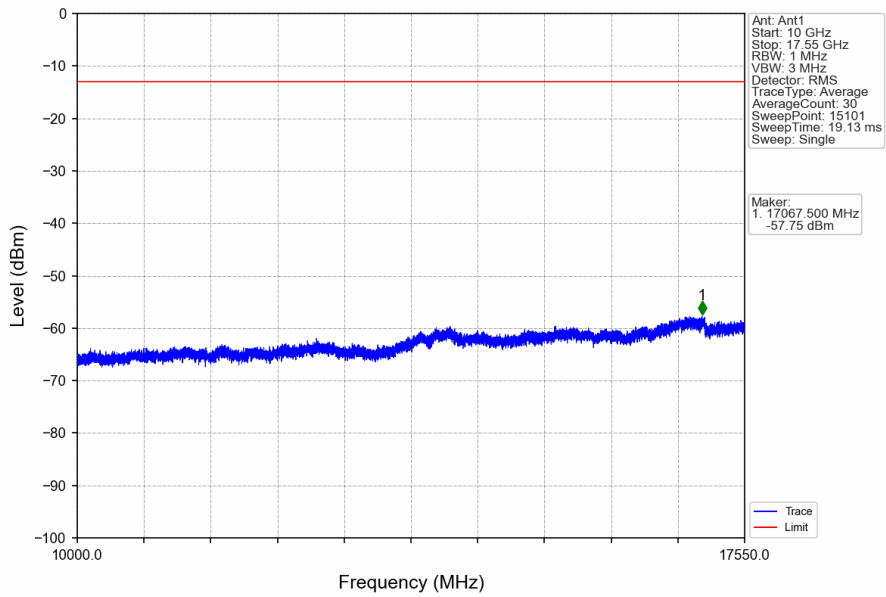
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



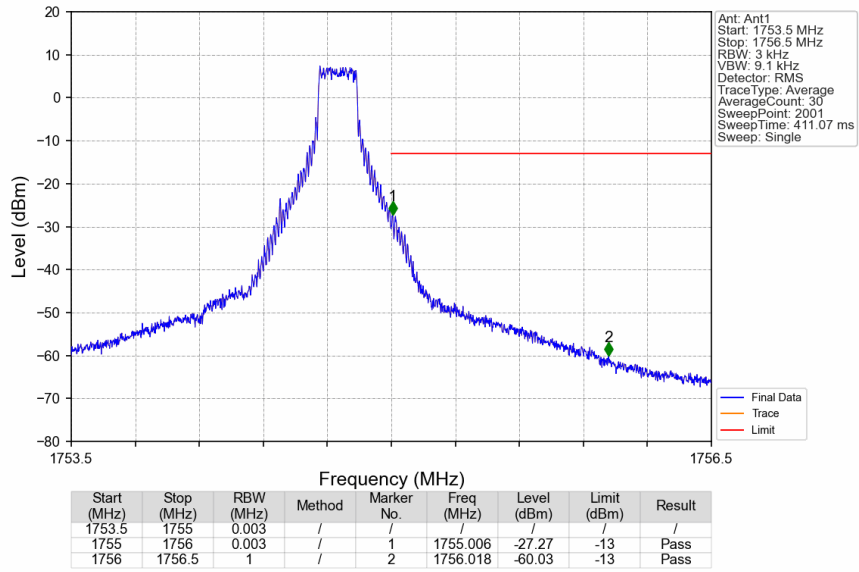
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



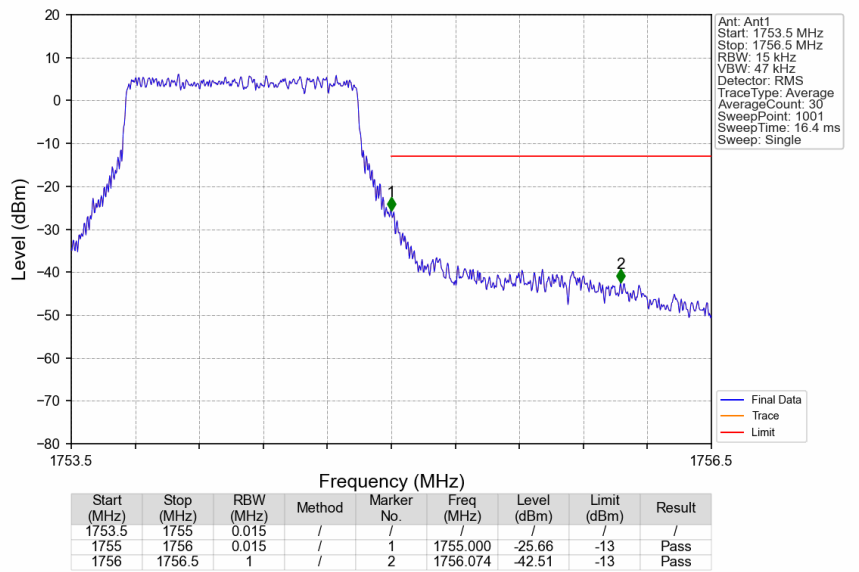
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1711.5	1	0	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
	1753.5	1		0	Refer To Test Graph		Pass
				14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass	

5.2.2 Test Graph

