

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP (ANT31)

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	23.12	-5.80	15.17	<=34.77	Pass
			13	23.13	-5.80	15.18	<=34.77	Pass
			24	22.91	-5.80	14.96	<=34.77	Pass
		12	0	22.09	-5.80	14.14	<=34.77	Pass
			6	22.12	-5.80	14.17	<=34.77	Pass
			13	22.16	-5.80	14.21	<=34.77	Pass
		25	0	22.08	-5.80	14.13	<=34.77	Pass
	710	1	0	23.05	-5.80	15.10	<=34.77	Pass
			13	23.03	-5.80	15.08	<=34.77	Pass
			24	22.80	-5.80	14.85	<=34.77	Pass
		12	0	21.94	-5.80	13.99	<=34.77	Pass
			6	21.97	-5.80	14.02	<=34.77	Pass
			13	22.04	-5.80	14.09	<=34.77	Pass
		25	0	21.99	-5.80	14.04	<=34.77	Pass
	713.5	1	0	22.82	-5.80	14.87	<=34.77	Pass
			13	22.81	-5.80	14.86	<=34.77	Pass
			24	22.66	-5.80	14.71	<=34.77	Pass
		12	0	22.02	-5.80	14.07	<=34.77	Pass
			6	21.86	-5.80	13.91	<=34.77	Pass
			13	21.89	-5.80	13.94	<=34.77	Pass
		25	0	21.89	-5.80	13.94	<=34.77	Pass
16QAM	706.5	1	0	22.46	-5.80	14.51	<=34.77	Pass
			13	22.33	-5.80	14.38	<=34.77	Pass
			24	22.24	-5.80	14.29	<=34.77	Pass
		12	0	21.09	-5.80	13.14	<=34.77	Pass
			6	21.14	-5.80	13.19	<=34.77	Pass
			13	21.12	-5.80	13.17	<=34.77	Pass
		25	0	21.09	-5.80	13.14	<=34.77	Pass
	710	1	0	22.28	-5.80	14.33	<=34.77	Pass
			13	22.54	-5.80	14.59	<=34.77	Pass
			24	22.32	-5.80	14.37	<=34.77	Pass
		12	0	20.98	-5.80	13.03	<=34.77	Pass
			6	20.94	-5.80	12.99	<=34.77	Pass
			13	20.98	-5.80	13.03	<=34.77	Pass
		25	0	20.91	-5.80	12.96	<=34.77	Pass
	713.5	1	0	22.40	-5.80	14.45	<=34.77	Pass
			13	22.40	-5.80	14.45	<=34.77	Pass
			24	22.07	-5.80	14.12	<=34.77	Pass
		12	0	20.90	-5.80	12.95	<=34.77	Pass
			6	20.88	-5.80	12.93	<=34.77	Pass
			13	20.87	-5.80	12.92	<=34.77	Pass
		25	0	20.92	-5.80	12.97	<=34.77	Pass
64QAM	706.5	1	0	22.09	-5.80	14.14	<=34.77	Pass
			13	22.23	-5.80	14.28	<=34.77	Pass
			24	22.11	-5.80	14.16	<=34.77	Pass
		12	0	21.08	-5.80	13.13	<=34.77	Pass
			6	21.14	-5.80	13.19	<=34.77	Pass
			13	20.97	-5.80	13.02	<=34.77	Pass
		25	0	21.12	-5.80	13.17	<=34.77	Pass

	710	1	0	21.93	-5.80	13.98	<=34.77	Pass
			13	22.17	-5.80	14.22	<=34.77	Pass
			24	21.88	-5.80	13.93	<=34.77	Pass
		12	0	20.95	-5.80	13.00	<=34.77	Pass
			6	20.95	-5.80	13.00	<=34.77	Pass
			13	20.89	-5.80	12.94	<=34.77	Pass
		25	0	20.91	-5.80	12.96	<=34.77	Pass
	713.5	1	0	21.92	-5.80	13.97	<=34.77	Pass
			13	22.27	-5.80	14.32	<=34.77	Pass
			24	21.85	-5.80	13.90	<=34.77	Pass
		12	0	20.95	-5.80	13.00	<=34.77	Pass
			6	20.85	-5.80	12.90	<=34.77	Pass
			13	20.91	-5.80	12.96	<=34.77	Pass
		25	0	20.94	-5.80	12.99	<=34.77	Pass
256QAM	706.5	1	0	18.20	-5.80	10.25	<=34.77	Pass
			13	17.96	-5.80	10.01	<=34.77	Pass
			24	18.05	-5.80	10.10	<=34.77	Pass
		12	0	18.03	-5.80	10.08	<=34.77	Pass
			6	18.10	-5.80	10.15	<=34.77	Pass
			13	18.01	-5.80	10.06	<=34.77	Pass
		25	0	18.11	-5.80	10.16	<=34.77	Pass
	710	1	0	18.02	-5.80	10.07	<=34.77	Pass
			13	18.14	-5.80	10.19	<=34.77	Pass
			24	18.12	-5.80	10.17	<=34.77	Pass
		12	0	17.99	-5.80	10.04	<=34.77	Pass
			6	18.02	-5.80	10.07	<=34.77	Pass
			13	17.97	-5.80	10.02	<=34.77	Pass
		25	0	17.95	-5.80	10.00	<=34.77	Pass
	713.5	1	0	17.54	-5.80	9.59	<=34.77	Pass
			13	17.88	-5.80	9.93	<=34.77	Pass
			24	18.12	-5.80	10.17	<=34.77	Pass
		12	0	17.96	-5.80	10.01	<=34.77	Pass
			6	17.90	-5.80	9.95	<=34.77	Pass
			13	17.90	-5.80	9.95	<=34.77	Pass
		25	0	17.85	-5.80	9.90	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B17_10MHz_ERP (ANT31)

Band: 17 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	23.05	-5.80	15.10	<=34.77	Pass
			25	22.95	-5.80	15.00	<=34.77	Pass
			49	22.77	-5.80	14.82	<=34.77	Pass
		25	0	22.15	-5.80	14.20	<=34.77	Pass
			13	22.11	-5.80	14.16	<=34.77	Pass
			25	22.07	-5.80	14.12	<=34.77	Pass
		50	0	22.14	-5.80	14.19	<=34.77	Pass
	710	1	0	23.06	-5.80	15.11	<=34.77	Pass
			25	22.99	-5.80	15.04	<=34.77	Pass
			49	22.83	-5.80	14.88	<=34.77	Pass
		25	0	22.10	-5.80	14.15	<=34.77	Pass
			13	21.94	-5.80	13.99	<=34.77	Pass
			25	22.09	-5.80	14.14	<=34.77	Pass
		50	0	22.11	-5.80	14.16	<=34.77	Pass
	711	1	0	22.96	-5.80	15.01	<=34.77	Pass

			25	22.96	-5.80	15.01	<=34.77	Pass		
			49	22.77	-5.80	14.82	<=34.77	Pass		
			0	22.02	-5.80	14.07	<=34.77	Pass		
		25	13	22.13	-5.80	14.18	<=34.77	Pass		
			25	22.03	-5.80	14.08	<=34.77	Pass		
			50	0	21.96	-5.80	14.01	<=34.77	Pass	
16QAM	709	1	0	22.39	-5.80	14.44	<=34.77	Pass		
			25	22.29	-5.80	14.34	<=34.77	Pass		
			49	22.01	-5.80	14.06	<=34.77	Pass		
		25	0	21.15	-5.80	13.20	<=34.77	Pass		
			13	21.08	-5.80	13.13	<=34.77	Pass		
			25	21.02	-5.80	13.07	<=34.77	Pass		
		50	0	21.09	-5.80	13.14	<=34.77	Pass		
		710	1	0	22.20	-5.80	14.25	<=34.77	Pass	
				25	22.39	-5.80	14.44	<=34.77	Pass	
	49			22.04	-5.80	14.09	<=34.77	Pass		
	25		0	21.01	-5.80	13.06	<=34.77	Pass		
			13	20.91	-5.80	12.96	<=34.77	Pass		
			25	21.02	-5.80	13.07	<=34.77	Pass		
	50		0	20.92	-5.80	12.97	<=34.77	Pass		
	711		1	0	22.42	-5.80	14.47	<=34.77	Pass	
				25	22.07	-5.80	14.12	<=34.77	Pass	
		49		22.02	-5.80	14.07	<=34.77	Pass		
		25	0	20.99	-5.80	13.04	<=34.77	Pass		
			13	21.04	-5.80	13.09	<=34.77	Pass		
			25	20.92	-5.80	12.97	<=34.77	Pass		
		50	0	20.95	-5.80	13.00	<=34.77	Pass		
		64QAM	709	1	0	22.28	-5.80	14.33	<=34.77	Pass
					25	22.12	-5.80	14.17	<=34.77	Pass
	49				22.12	-5.80	14.17	<=34.77	Pass	
	25			0	21.05	-5.80	13.10	<=34.77	Pass	
				13	21.09	-5.80	13.14	<=34.77	Pass	
				25	20.99	-5.80	13.04	<=34.77	Pass	
50	0			20.95	-5.80	13.00	<=34.77	Pass		
710	1			0	22.30	-5.80	14.35	<=34.77	Pass	
				25	22.25	-5.80	14.30	<=34.77	Pass	
			49	21.98	-5.80	14.03	<=34.77	Pass		
	25		0	21.03	-5.80	13.08	<=34.77	Pass		
			13	20.92	-5.80	12.97	<=34.77	Pass		
			25	20.95	-5.80	13.00	<=34.77	Pass		
	50		0	20.93	-5.80	12.98	<=34.77	Pass		
	711		1	0	22.32	-5.80	14.37	<=34.77	Pass	
				25	22.09	-5.80	14.14	<=34.77	Pass	
49				21.81	-5.80	13.86	<=34.77	Pass		
25			0	20.97	-5.80	13.02	<=34.77	Pass		
			13	21.04	-5.80	13.09	<=34.77	Pass		
			25	20.94	-5.80	12.99	<=34.77	Pass		
50			0	20.84	-5.80	12.89	<=34.77	Pass		
256QAM			709	1	0	18.32	-5.80	10.37	<=34.77	Pass
					25	18.05	-5.80	10.10	<=34.77	Pass
	49				17.87	-5.80	9.92	<=34.77	Pass	
	25			0	18.12	-5.80	10.17	<=34.77	Pass	
				13	18.10	-5.80	10.15	<=34.77	Pass	
				25	18.05	-5.80	10.10	<=34.77	Pass	
	50	0	18.01	-5.80	10.06	<=34.77	Pass			
	710	1	0	18.17	-5.80	10.22	<=34.77	Pass		
			25	18.29	-5.80	10.34	<=34.77	Pass		
			49	17.92	-5.80	9.97	<=34.77	Pass		
		25	0	18.07	-5.80	10.12	<=34.77	Pass		

			13	18.00	-5.80	10.05	<=34.77	Pass
			25	17.95	-5.80	10.00	<=34.77	Pass
		50	0	18.01	-5.80	10.06	<=34.77	Pass
	711	1	0	18.14	-5.80	10.19	<=34.77	Pass
			25	18.18	-5.80	10.23	<=34.77	Pass
			49	17.57	-5.80	9.62	<=34.77	Pass
		25	0	18.43	-5.80	10.48	<=34.77	Pass
			13	18.01	-5.80	10.06	<=34.77	Pass
			25	17.95	-5.80	10.00	<=34.77	Pass
		50	0	17.95	-5.80	10.00	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B17_10MHz

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	3.7	1.800	0.0025	/	Pass
					3.91	0.800	0.0011	/	Pass
					4.4	1.600	0.0023	/	Pass
				-30	3.91	1.300	0.0018	/	Pass
				-20	3.91	4.000	0.0056	/	Pass
				-10	3.91	1.400	0.0020	/	Pass
				0	3.91	0.700	0.0010	/	Pass
				10	3.91	-1.200	-0.0017	/	Pass
				30	3.91	0.200	0.0003	/	Pass
				40	3.91	-1.400	-0.0020	/	Pass
				50	3.91	0.000	0.0000	/	Pass
	710	50	0	20	3.7	1.700	0.0024	/	Pass
					3.91	-2.200	-0.0031	/	Pass
					4.4	-0.200	-0.0003	/	Pass
				-30	3.91	0.200	0.0003	/	Pass
				-20	3.91	0.500	0.0007	/	Pass
				-10	3.91	0.600	0.0008	/	Pass
				0	3.91	0.300	0.0004	/	Pass
				10	3.91	0.300	0.0004	/	Pass
				30	3.91	0.500	0.0007	/	Pass
				40	3.91	1.900	0.0027	/	Pass
				50	3.91	-1.800	-0.0025	/	Pass
	711	50	0	20	3.7	0.400	0.0006	/	Pass
					3.91	1.400	0.0020	/	Pass
					4.4	1.400	0.0020	/	Pass
				-30	3.91	0.200	0.0003	/	Pass
				-20	3.91	1.000	0.0014	/	Pass
				-10	3.91	0.000	0.0000	/	Pass
				0	3.91	1.000	0.0014	/	Pass
				10	3.91	0.400	0.0006	/	Pass
				30	3.91	0.100	0.0001	/	Pass
				40	3.91	0.900	0.0013	/	Pass
				50	3.91	-1.800	-0.0025	/	Pass
16QAM	709	50	0	20	3.7	1.800	0.0025	/	Pass
					3.91	0.200	0.0003	/	Pass

					4.4	1.600	0.0023	/	Pass
				-30	3.91	1.900	0.0027	/	Pass
				-20	3.91	1.000	0.0014	/	Pass
				-10	3.91	-1.000	-0.0014	/	Pass
				0	3.91	-2.600	-0.0037	/	Pass
				10	3.91	-0.200	-0.0003	/	Pass
				30	3.91	1.600	0.0023	/	Pass
				40	3.91	0.500	0.0007	/	Pass
				50	3.91	1.000	0.0014	/	Pass
	710	50	0	20	3.7	0.900	0.0013	/	Pass
					3.91	-0.700	-0.0010	/	Pass
					4.4	-0.500	-0.0007	/	Pass
				-30	3.91	-0.200	-0.0003	/	Pass
				-20	3.91	-0.900	-0.0013	/	Pass
				-10	3.91	0.900	0.0013	/	Pass
				0	3.91	0.600	0.0008	/	Pass
				10	3.91	-1.900	-0.0027	/	Pass
				30	3.91	-0.900	-0.0013	/	Pass
				40	3.91	0.500	0.0007	/	Pass
				50	3.91	0.200	0.0003	/	Pass
	711	50	0	20	3.7	-0.200	-0.0003	/	Pass
					3.91	-0.700	-0.0010	/	Pass
					4.4	-0.700	-0.0010	/	Pass
				-30	3.91	-0.800	-0.0011	/	Pass
				-20	3.91	0.200	0.0003	/	Pass
				-10	3.91	1.700	0.0024	/	Pass
				0	3.91	1.300	0.0018	/	Pass
				10	3.91	0.900	0.0013	/	Pass
				30	3.91	0.100	0.0001	/	Pass
				40	3.91	0.300	0.0004	/	Pass
				50	3.91	-0.200	-0.0003	/	Pass
64QAM	709	50	0	20	3.7	1.600	0.0023	/	Pass
					3.91	7.600	0.0107	/	Pass
					4.4	-20.500	-0.0289	/	Pass
				-30	3.91	-5.900	-0.0083	/	Pass
				-20	3.91	32.600	0.0460	/	Pass
				-10	3.91	-12.100	-0.0171	/	Pass
				0	3.91	7.000	0.0099	/	Pass
				10	3.91	19.300	0.0272	/	Pass
				30	3.91	-2.200	-0.0031	/	Pass
				40	3.91	10.000	0.0141	/	Pass
				50	3.91	-3.500	-0.0049	/	Pass
	710	50	0	20	3.7	23.700	0.0334	/	Pass
					3.91	-2.300	-0.0032	/	Pass
					4.4	-21.000	-0.0296	/	Pass
				-30	3.91	-11.800	-0.0166	/	Pass
				-20	3.91	-10.400	-0.0146	/	Pass
				-10	3.91	13.600	0.0192	/	Pass
				0	3.91	1.600	0.0023	/	Pass
				10	3.91	2.100	0.0030	/	Pass
				30	3.91	25.900	0.0365	/	Pass
				40	3.91	16.900	0.0238	/	Pass
				50	3.91	-1.400	-0.0020	/	Pass
	711	50	0	20	3.7	-11.400	-0.0160	/	Pass
					3.91	-25.200	-0.0354	/	Pass
					4.4	6.300	0.0089	/	Pass
				-30	3.91	20.700	0.0291	/	Pass
				-20	3.91	16.300	0.0229	/	Pass
				-10	3.91	-34.200	-0.0481	/	Pass

256QAM				0	3.91	6.500	0.0091	/	Pass
				10	3.91	-13.700	-0.0193	/	Pass
				30	3.91	-1.500	-0.0021	/	Pass
				40	3.91	-8.700	-0.0122	/	Pass
				50	3.91	27.700	0.0390	/	Pass
	709	50	0	20	3.7	-0.900	-0.0013	/	Pass
					3.91	1.500	0.0021	/	Pass
					4.4	-0.400	-0.0006	/	Pass
				-30	3.91	-0.200	-0.0003	/	Pass
				-20	3.91	0.200	0.0003	/	Pass
				-10	3.91	-0.900	-0.0013	/	Pass
				0	3.91	0.400	0.0006	/	Pass
				10	3.91	-0.100	-0.0001	/	Pass
				30	3.91	-0.300	-0.0004	/	Pass
				40	3.91	1.800	0.0025	/	Pass
	710	50	0	50	3.91	0.700	0.0010	/	Pass
				20	3.7	1.100	0.0015	/	Pass
					3.91	-0.300	-0.0004	/	Pass
					4.4	0.900	0.0013	/	Pass
				-30	3.91	-0.800	-0.0011	/	Pass
				-20	3.91	-0.600	-0.0008	/	Pass
				-10	3.91	1.800	0.0025	/	Pass
				0	3.91	-0.400	-0.0006	/	Pass
				10	3.91	-0.100	-0.0001	/	Pass
				30	3.91	1.800	0.0025	/	Pass
	711	50	0	40	3.91	-0.500	-0.0007	/	Pass
				50	3.91	1.500	0.0021	/	Pass
				20	3.7	-2.800	-0.0039	/	Pass
					3.91	-0.700	-0.0010	/	Pass
					4.4	0.000	0.0000	/	Pass
				-30	3.91	-0.700	-0.0010	/	Pass
				-20	3.91	0.200	0.0003	/	Pass
				-10	3.91	-1.600	-0.0023	/	Pass
				0	3.91	-1.900	-0.0027	/	Pass
				10	3.91	0.000	0.0000	/	Pass
				30	3.91	-1.100	-0.0015	/	Pass
				40	3.91	-1.700	-0.0024	/	Pass
				50	3.91	-0.700	-0.0010	/	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

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	4.563	/	Pass
		710	25	0	4.585	/	Pass
		713.5	25	0	4.592	/	Pass
	16QAM	706.5	25	0	4.560	/	Pass
		710	25	0	4.578	/	Pass
		713.5	25	0	4.607	/	Pass
	64QAM	706.5	25	0	4.557	/	Pass
		710	25	0	4.587	/	Pass

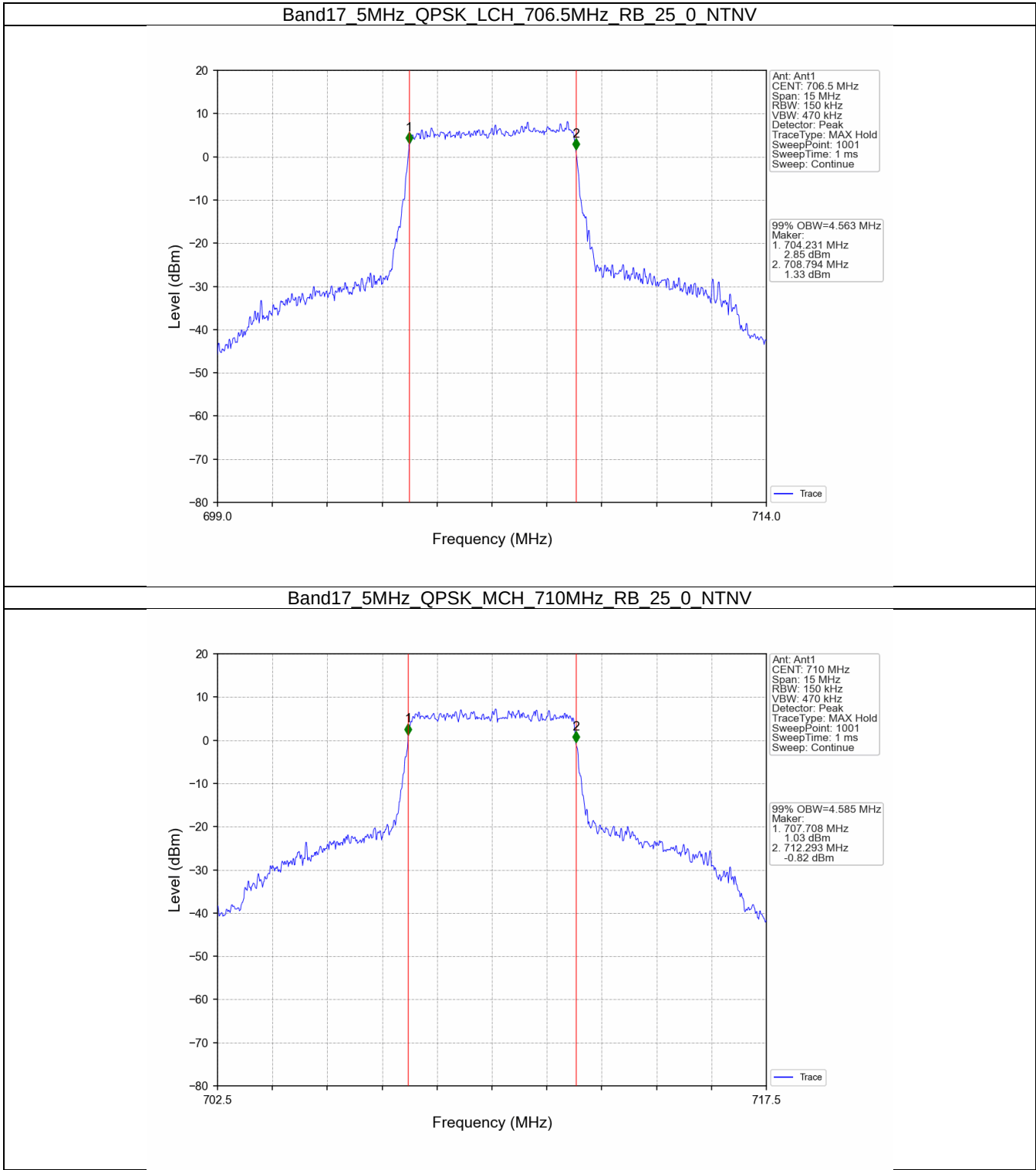
	256QAM	713.5	25	0	4.571	/	Pass
		706.5	25	0	4.556	/	Pass
		710	25	0	4.552	/	Pass
		713.5	25	0	4.552	/	Pass
10	QPSK	709	50	0	9.053	/	Pass
		710	50	0	9.054	/	Pass
		711	50	0	9.056	/	Pass
	16QAM	709	50	0	9.072	/	Pass
		710	50	0	9.041	/	Pass
		711	50	0	9.069	/	Pass
	64QAM	709	50	0	9.067	/	Pass
		710	50	0	9.045	/	Pass
		711	50	0	9.084	/	Pass
	256QAM	709	50	0	9.025	/	Pass
		710	50	0	9.007	/	Pass
		711	50	0	9.029	/	Pass

3.1.2 Band17_XDB

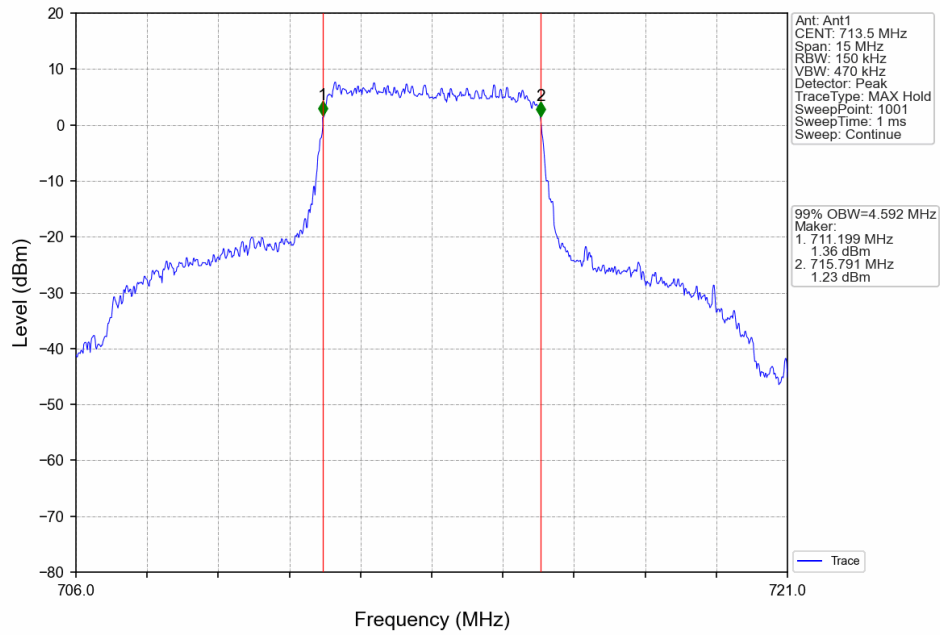
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.247	/	Pass
		710	25	0	5.472	/	Pass
		713.5	25	0	5.294	/	Pass
	16QAM	706.5	25	0	5.178	/	Pass
		710	25	0	5.232	/	Pass
		713.5	25	0	5.243	/	Pass
	64QAM	706.5	25	0	5.249	/	Pass
		710	25	0	5.222	/	Pass
		713.5	25	0	5.236	/	Pass
	256QAM	706.5	25	0	5.253	/	Pass
		710	25	0	5.220	/	Pass
		713.5	25	0	5.247	/	Pass
10	QPSK	709	50	0	10.188	/	Pass
		710	50	0	10.121	/	Pass
		711	50	0	10.117	/	Pass
	16QAM	709	50	0	10.018	/	Pass
		710	50	0	10.187	/	Pass
		711	50	0	10.317	/	Pass
	64QAM	709	50	0	10.076	/	Pass
		710	50	0	10.257	/	Pass
		711	50	0	10.044	/	Pass
	256QAM	709	50	0	10.121	/	Pass
		710	50	0	10.066	/	Pass
		711	50	0	10.094	/	Pass

3.2 Test Graph

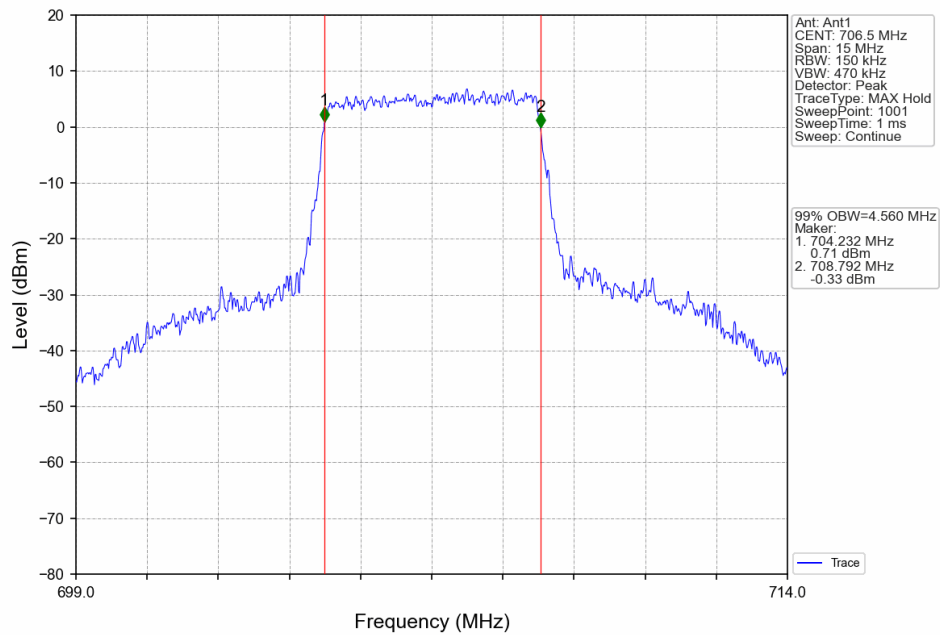
3.2.1 Band17_OBW



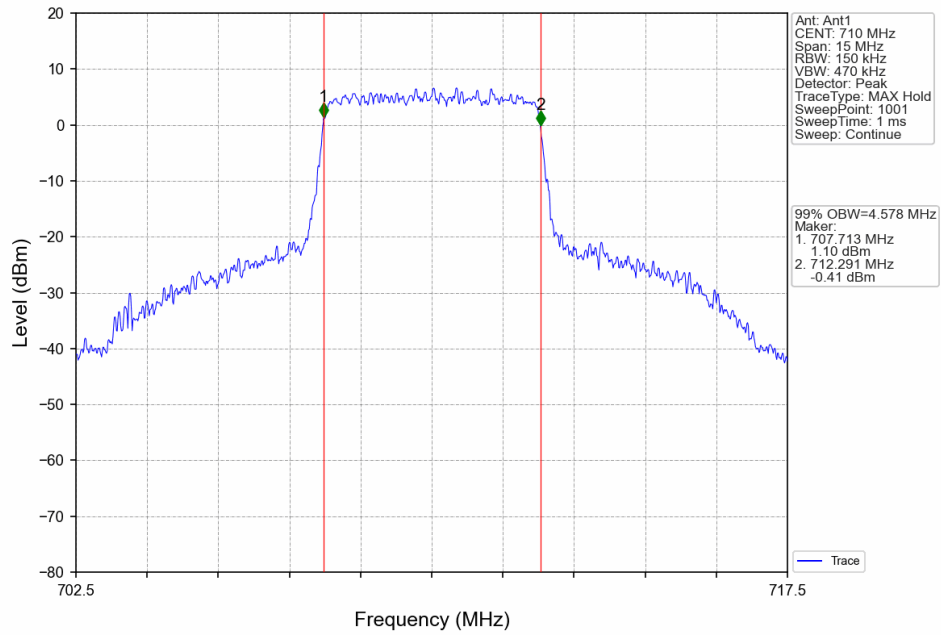
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



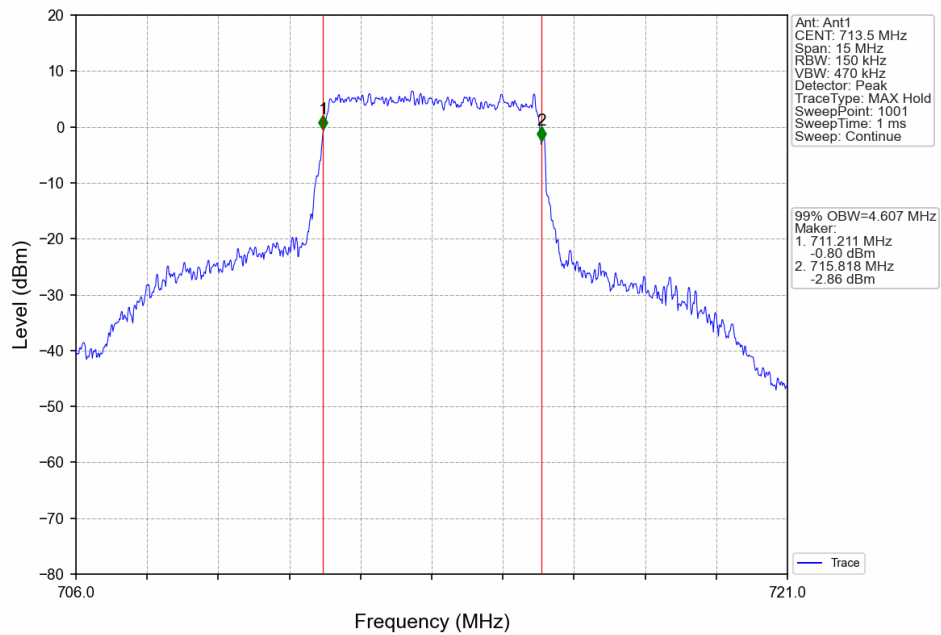
Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV



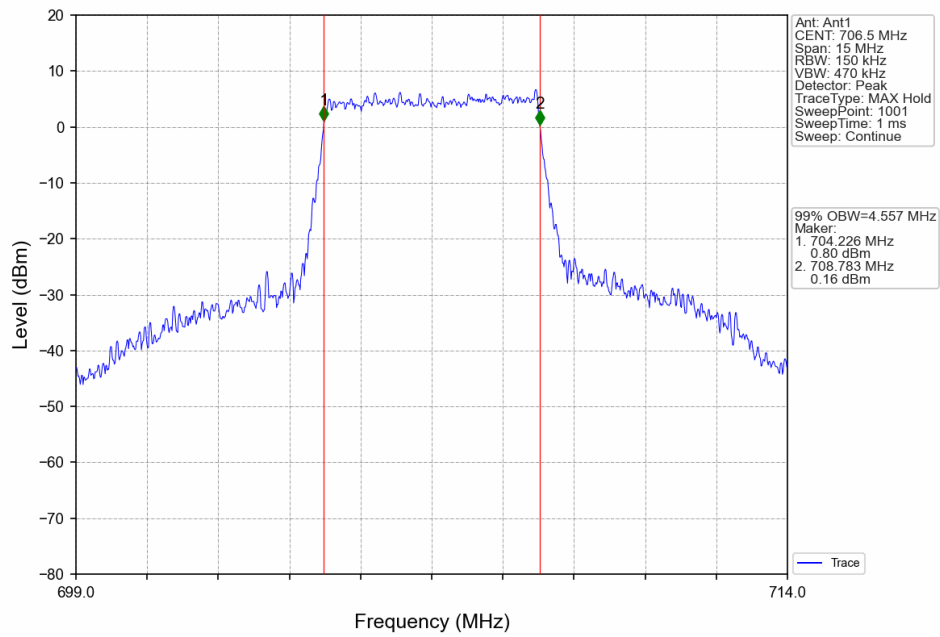
Band17 5MHz 16QAM MCH 710MHz RB 25 0 NTV



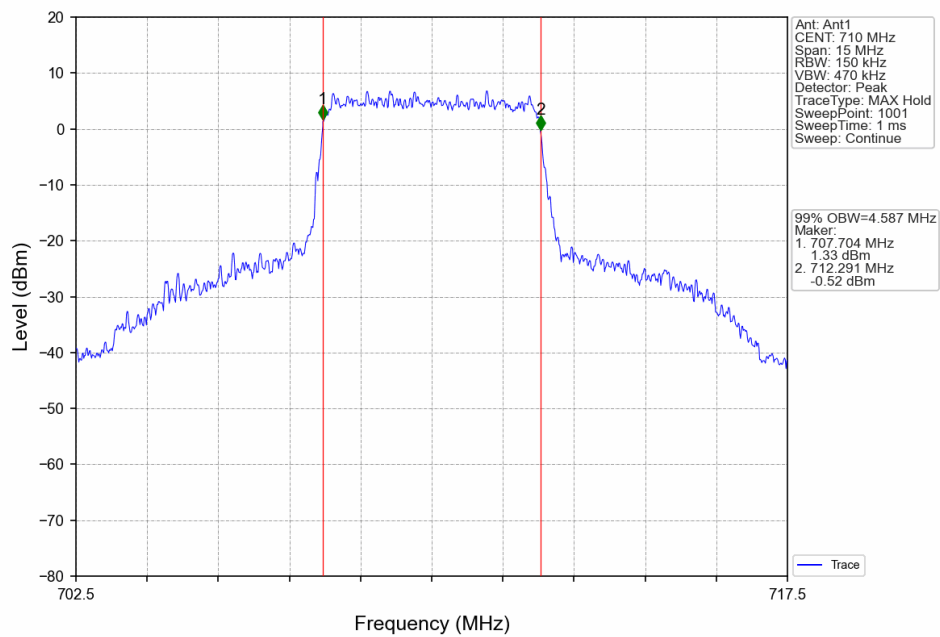
Band17 5MHz 16QAM HCH 713.5MHz RB 25 0 NTV



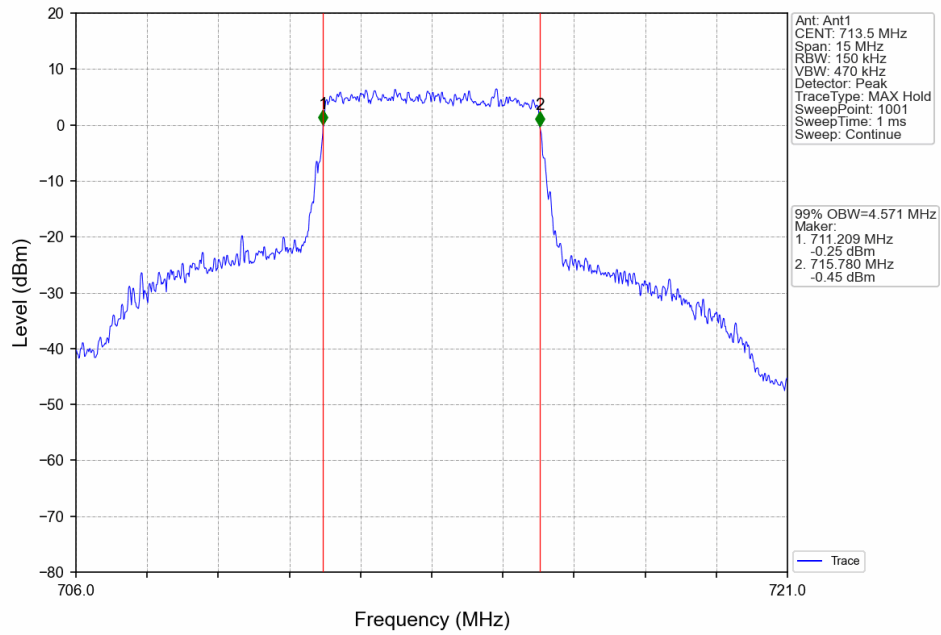
Band17 5MHz 64QAM LCH 706.5MHz RB 25 0 NTNV



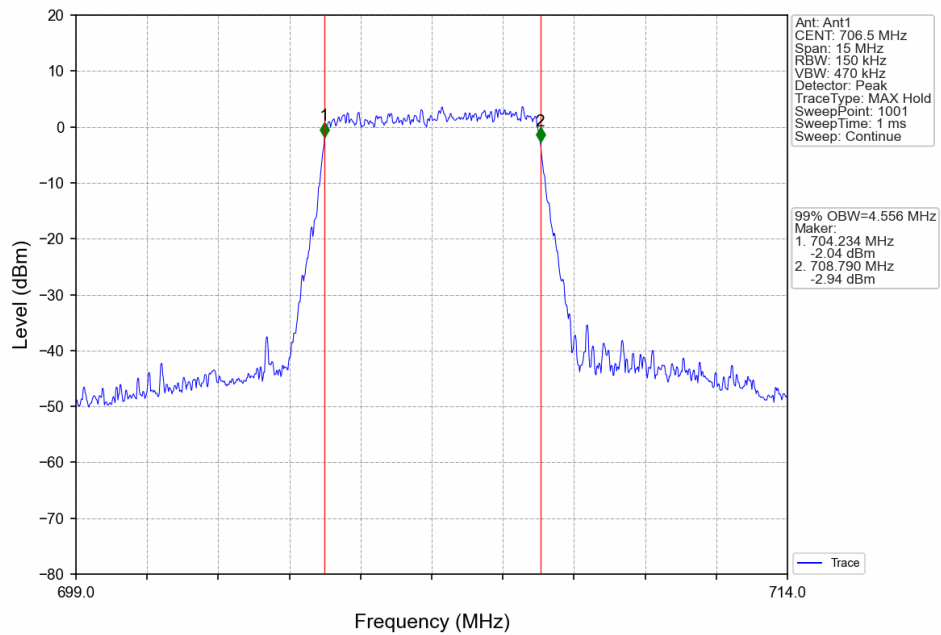
Band17 5MHz 64QAM MCH 710MHz RB 25 0 NTNV



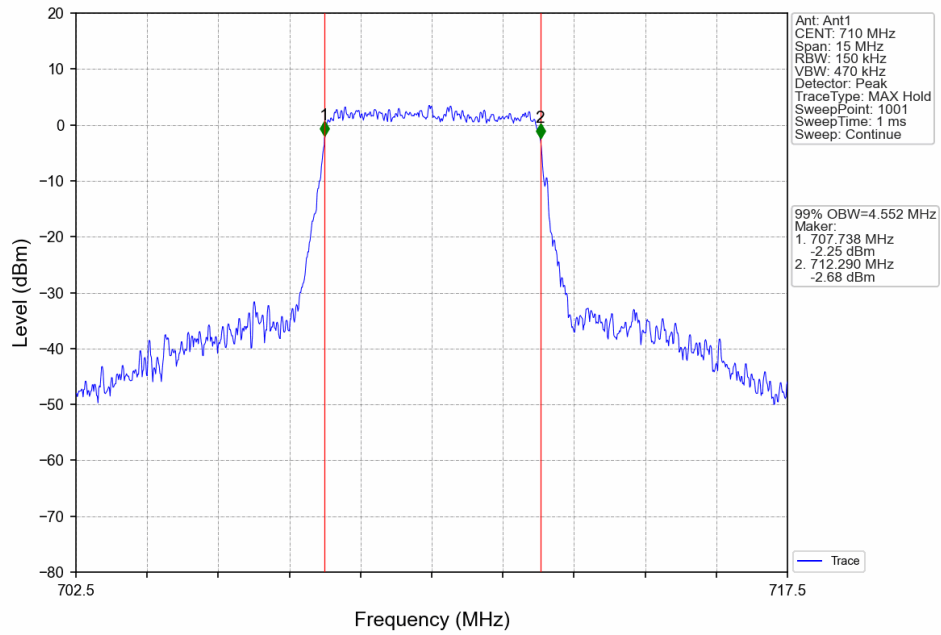
Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTNV



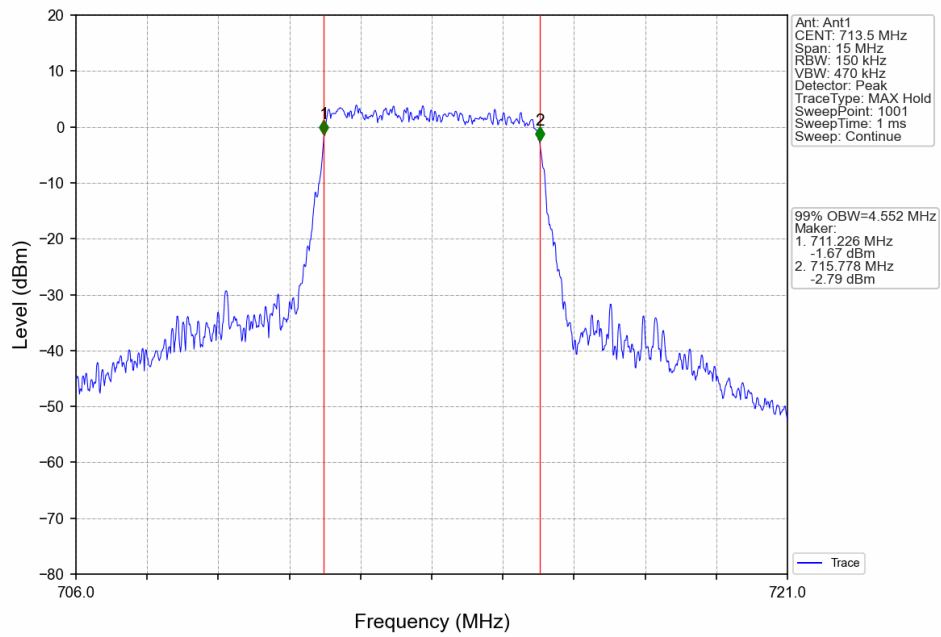
Band17 5MHz 256QAM LCH 706.5MHz RB 25 0 NTNV



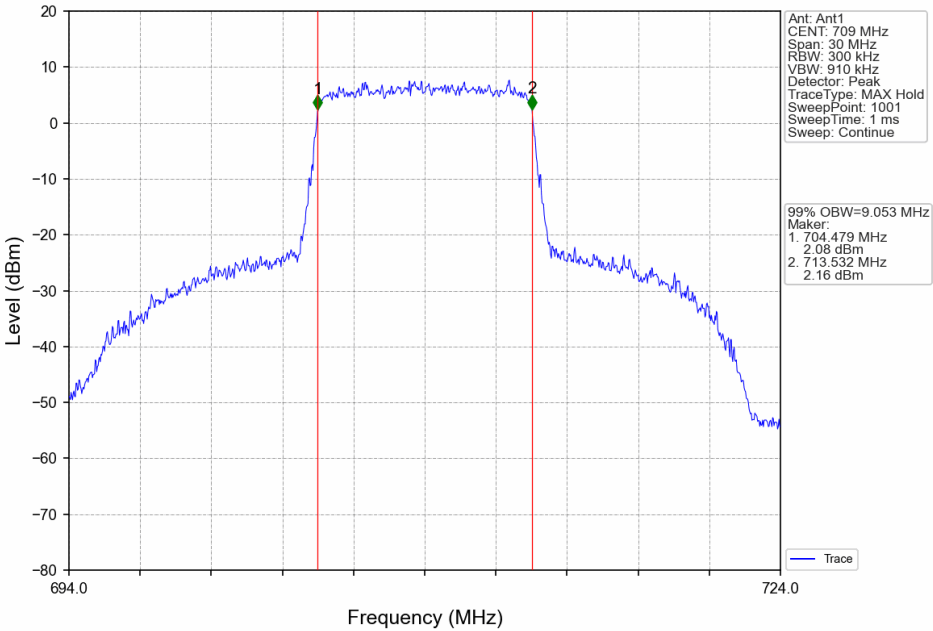
Band17 5MHz 256QAM MCH 710MHz RB 25 0 NTNV



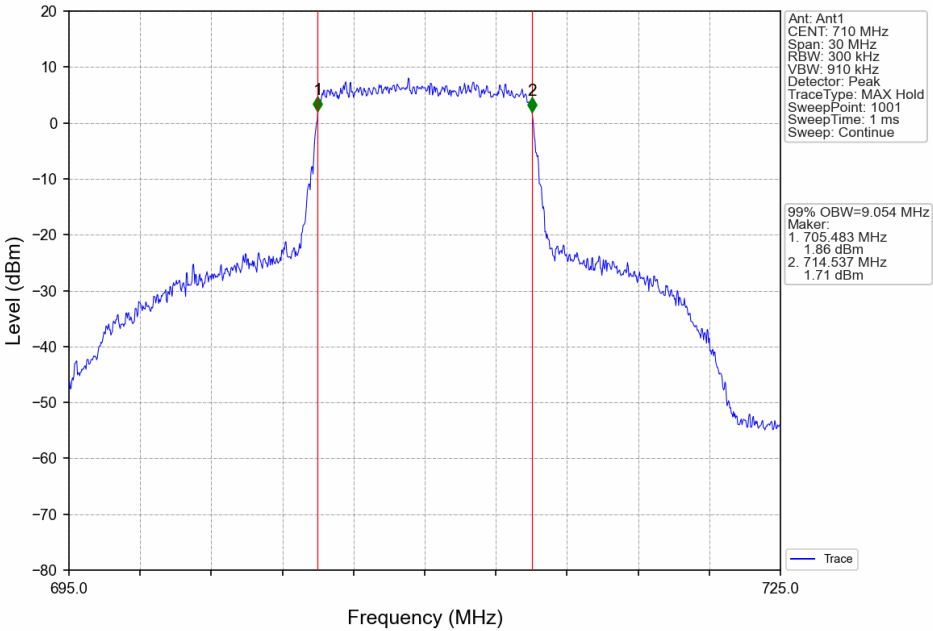
Band17 5MHz 256QAM HCH 713.5MHz RB 25 0 NTNV



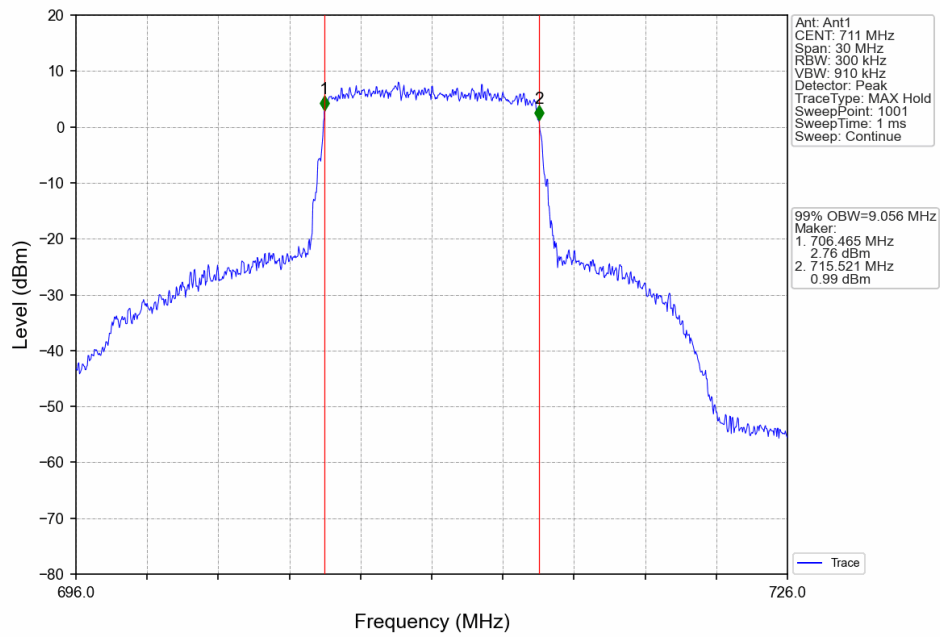
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



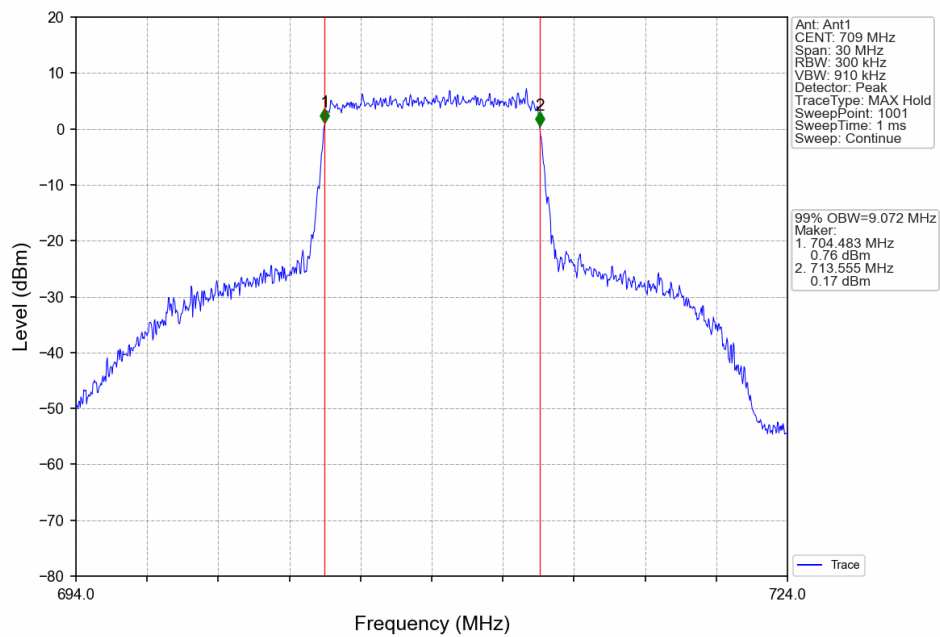
Band17 10MHz QPSK MCH 710MHz RB 50 0 NTN



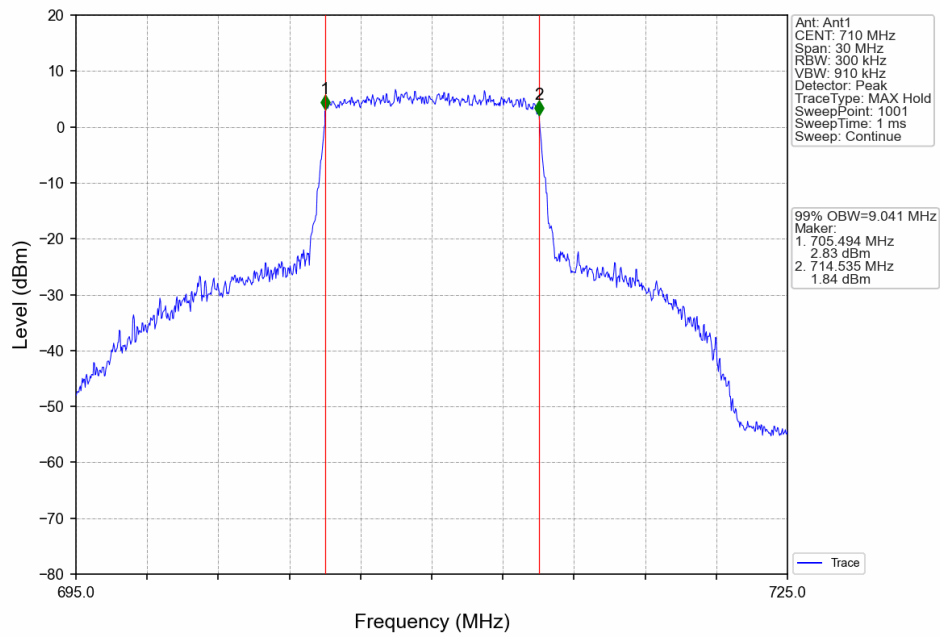
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTNV



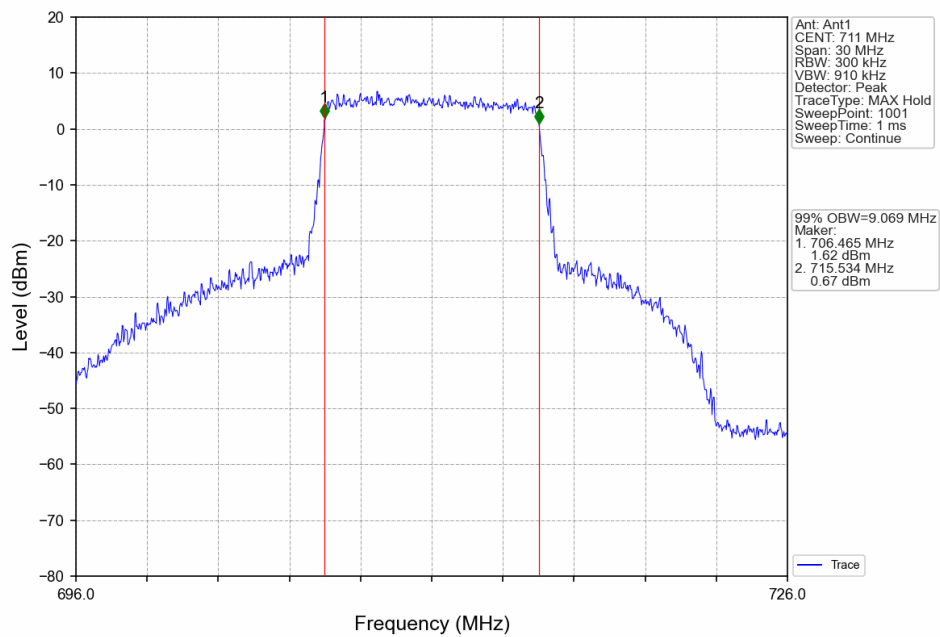
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTNV



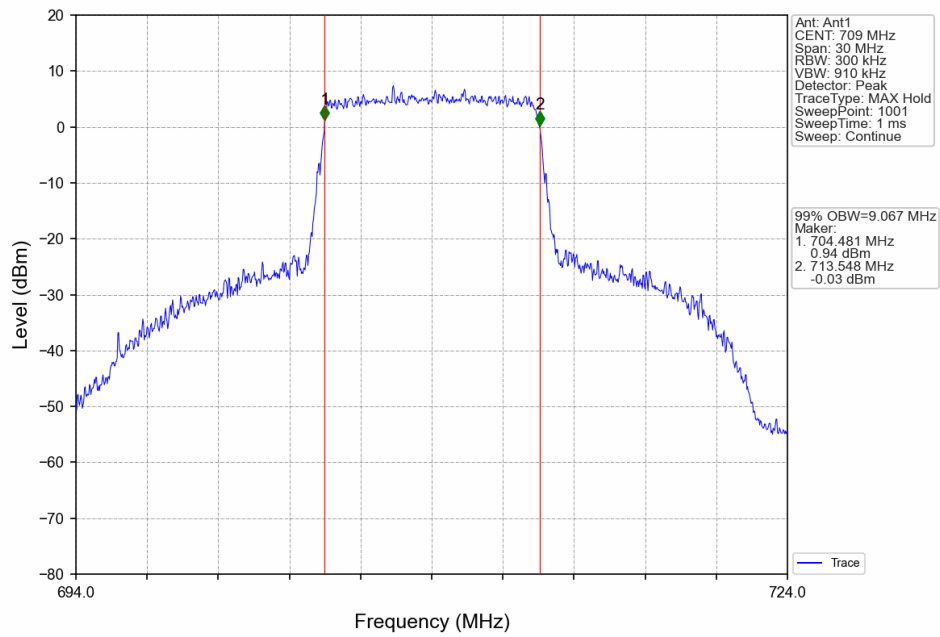
Band17 10MHz 16QAM MCH 710MHz RB 50 0 NTNV



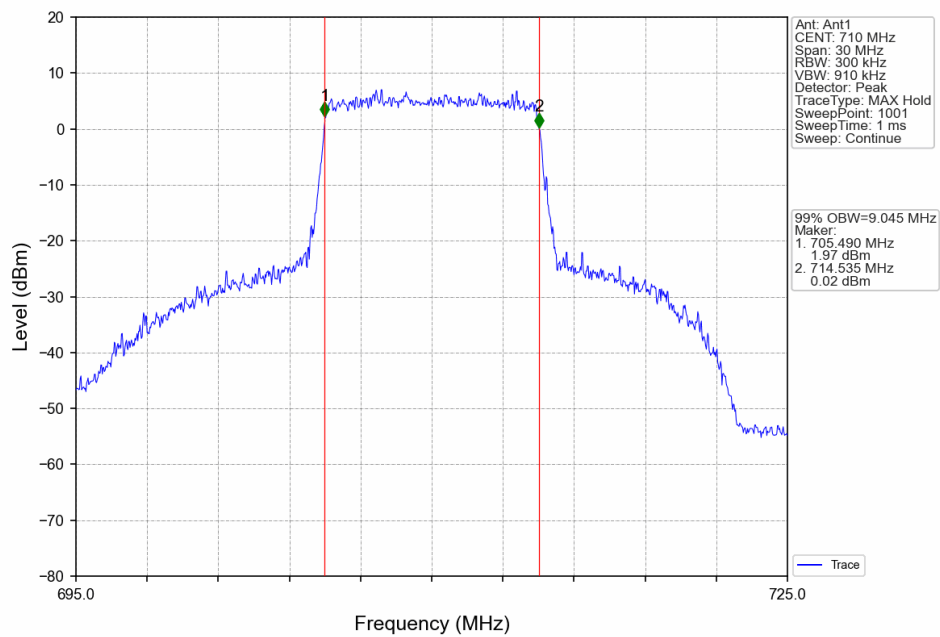
Band17 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



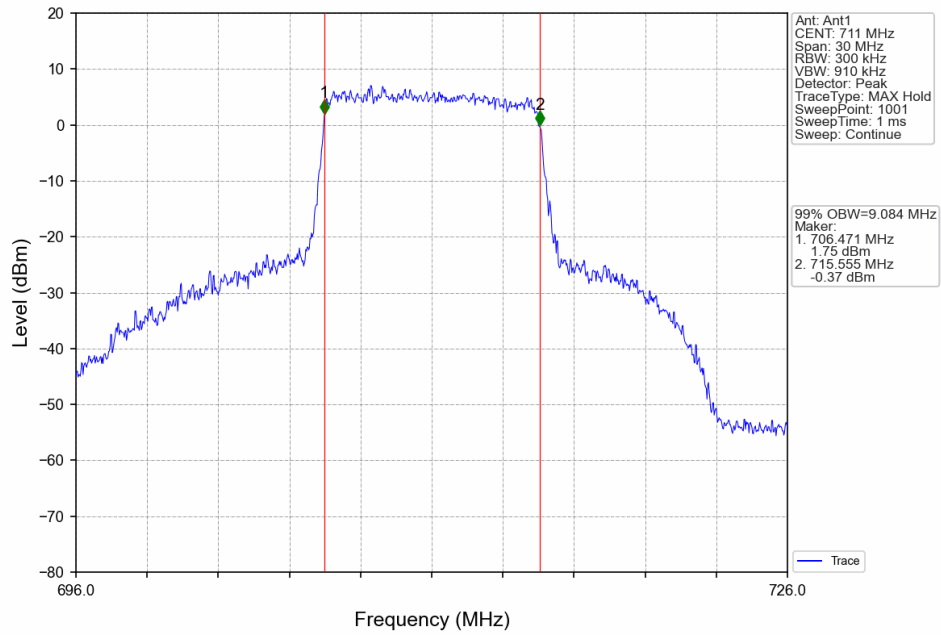
Band17 10MHz 64QAM LCH 709MHz RB 50 0 NTNV



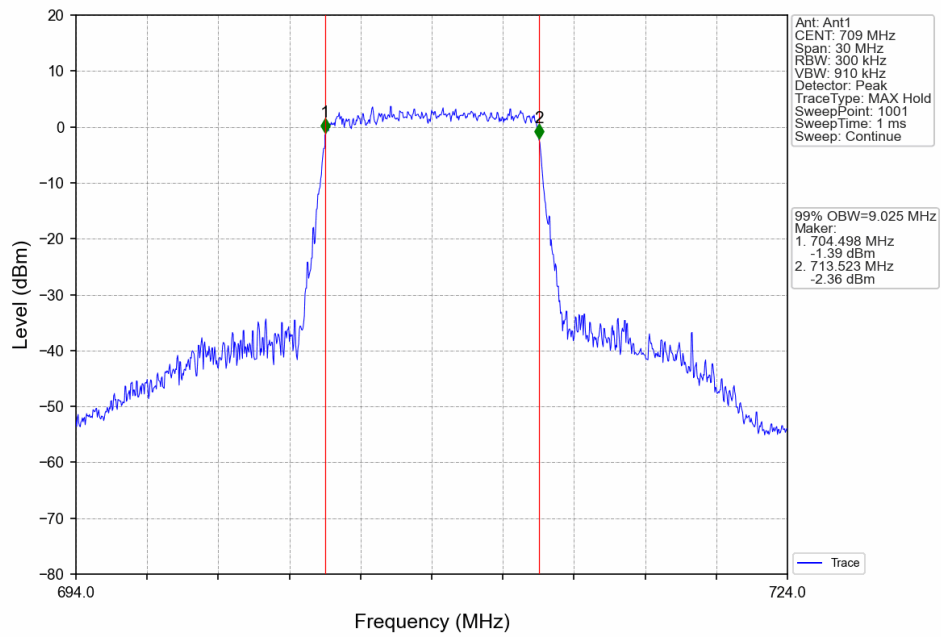
Band17 10MHz 64QAM MCH 710MHz RB 50 0 NTNV



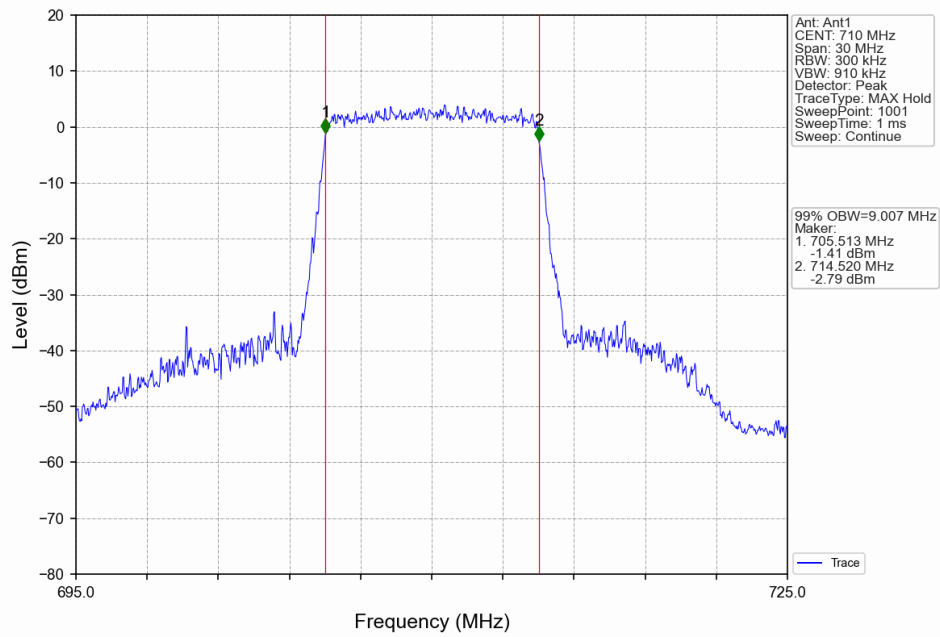
Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTV



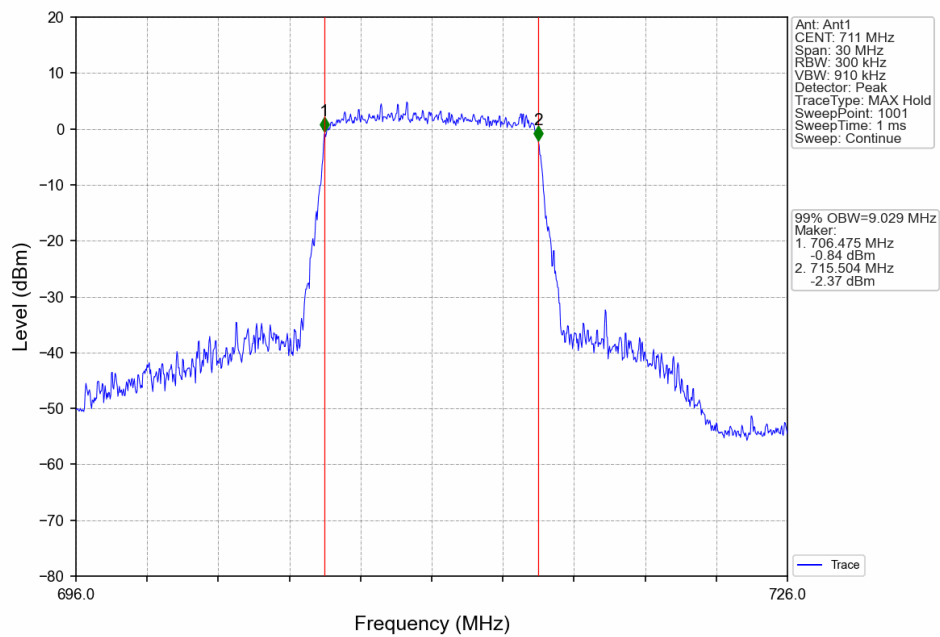
Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTV



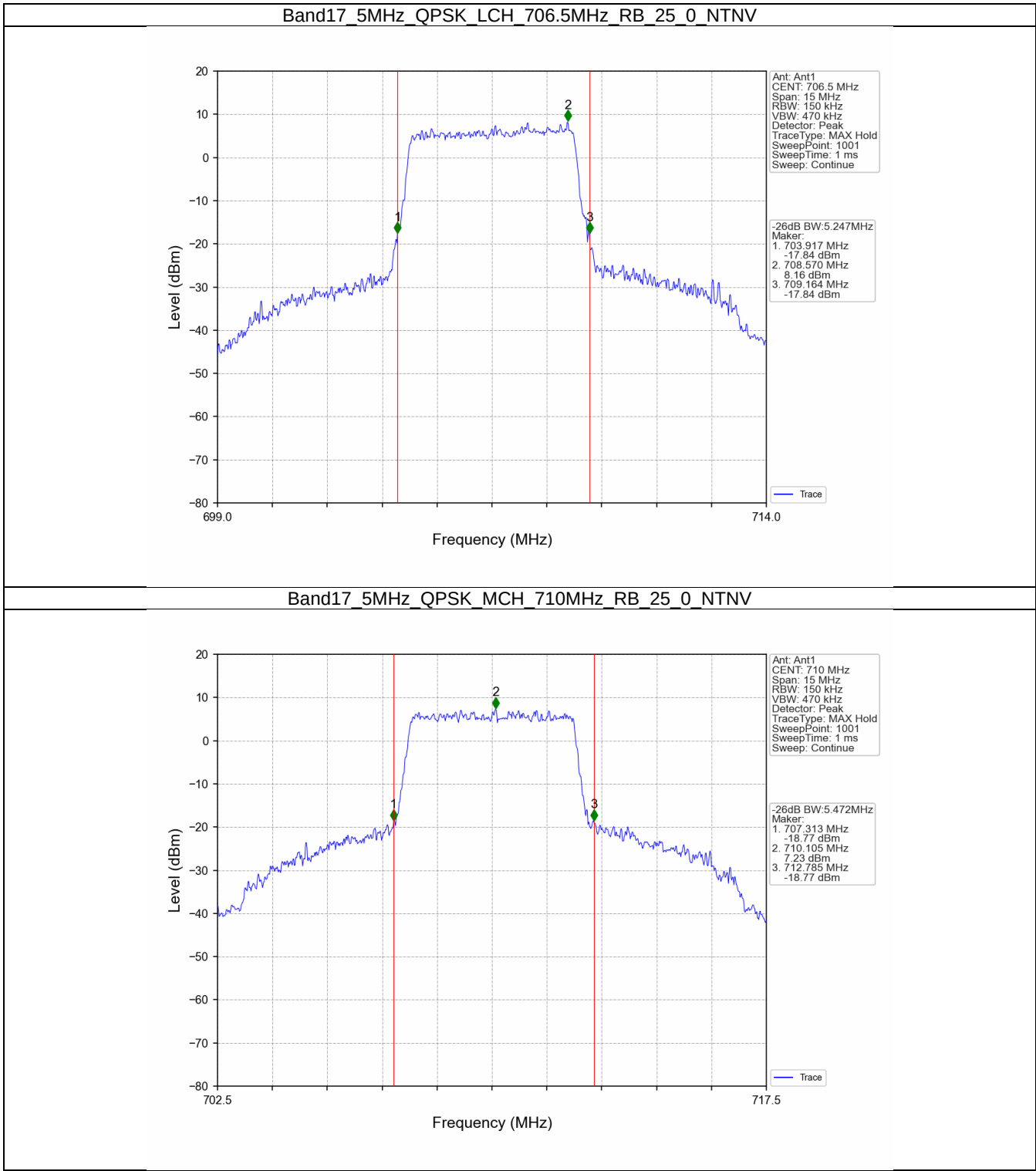
Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTNV



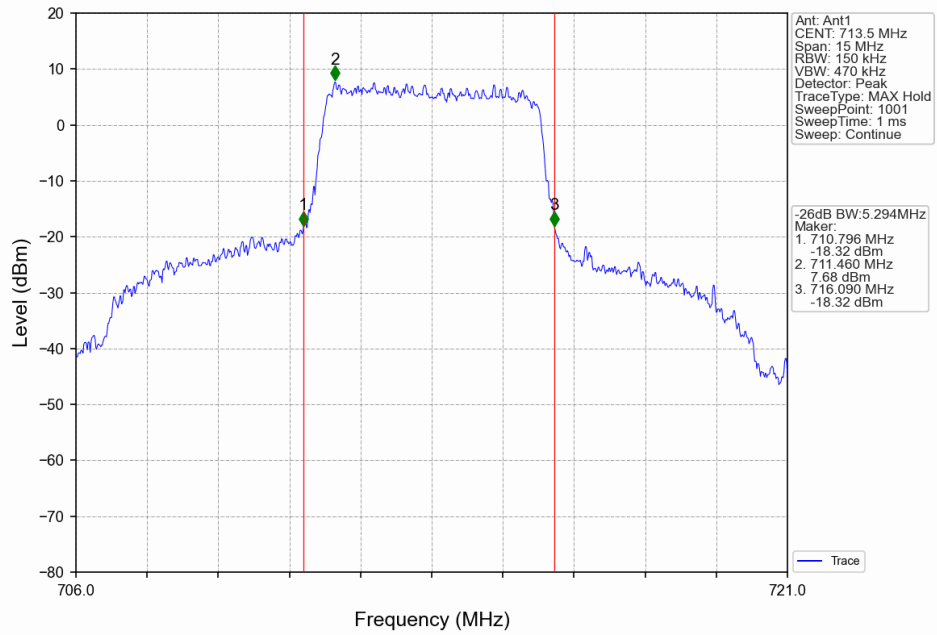
Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTNV



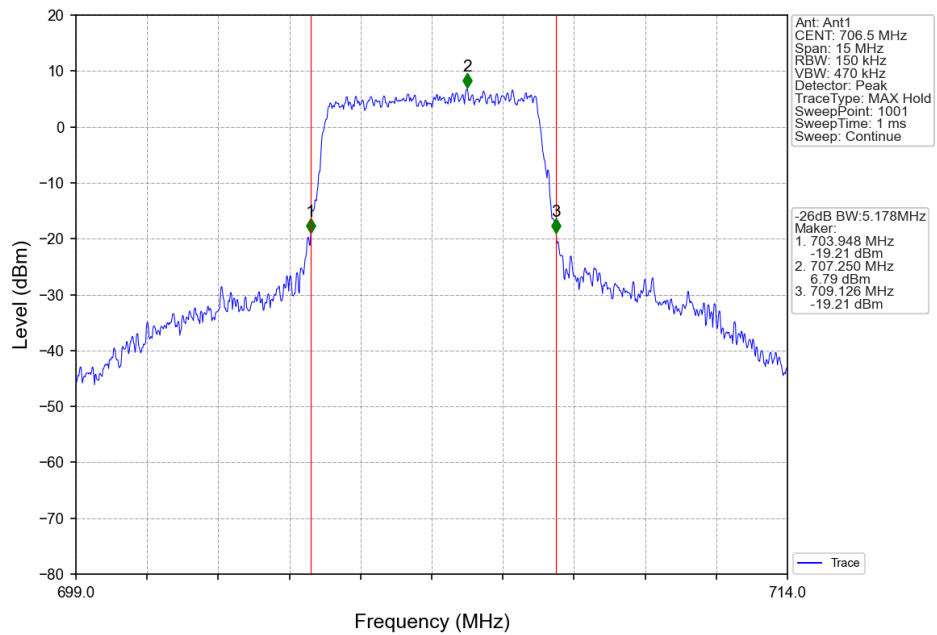
3.2.2 Band17_XDB



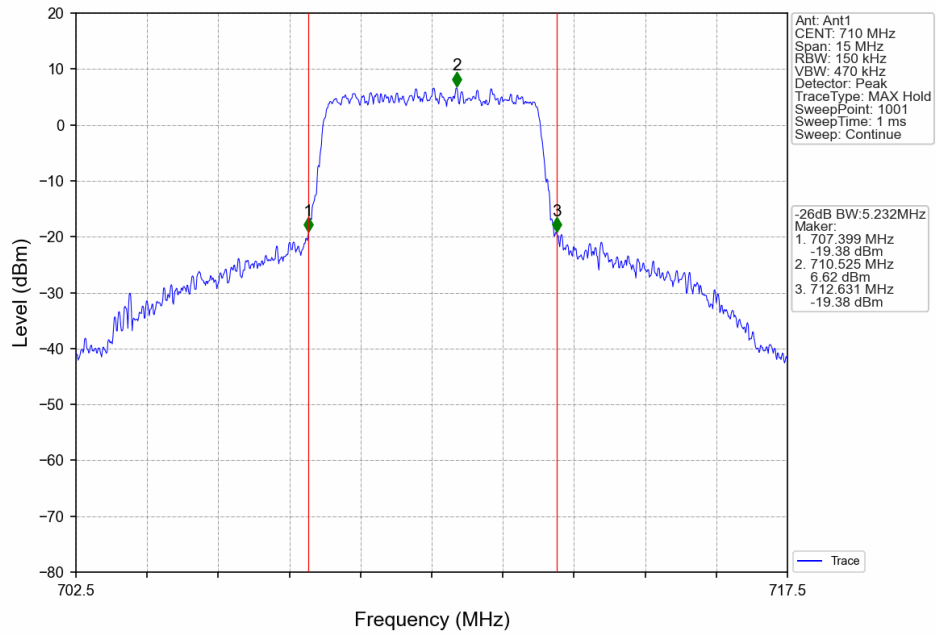
Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



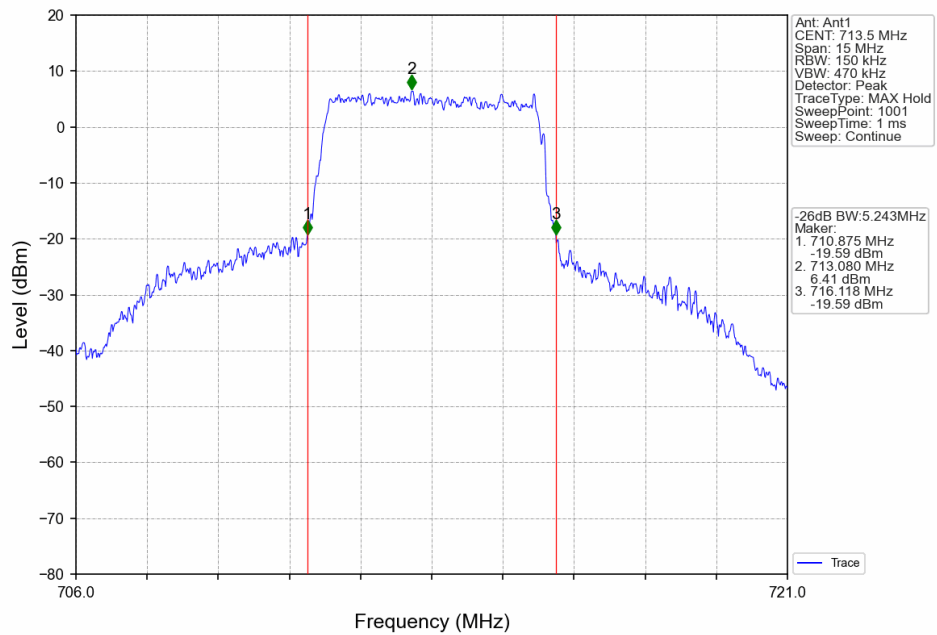
Band17 5MHz 16QAM LCH 706.5MHz RB 25 0 NTNV



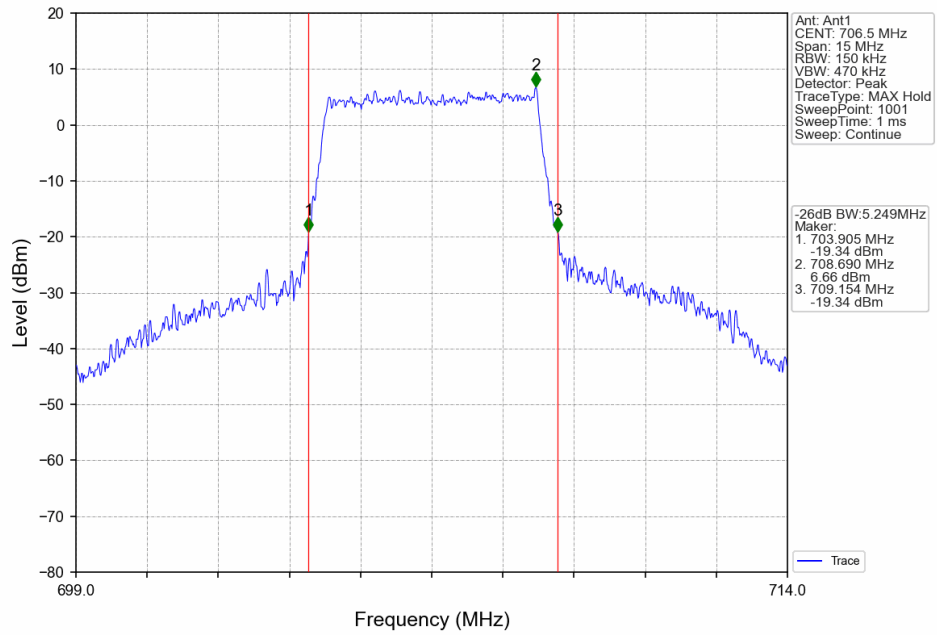
Band17 5MHz 16QAM MCH 710MHz RB 25 0 NTNV



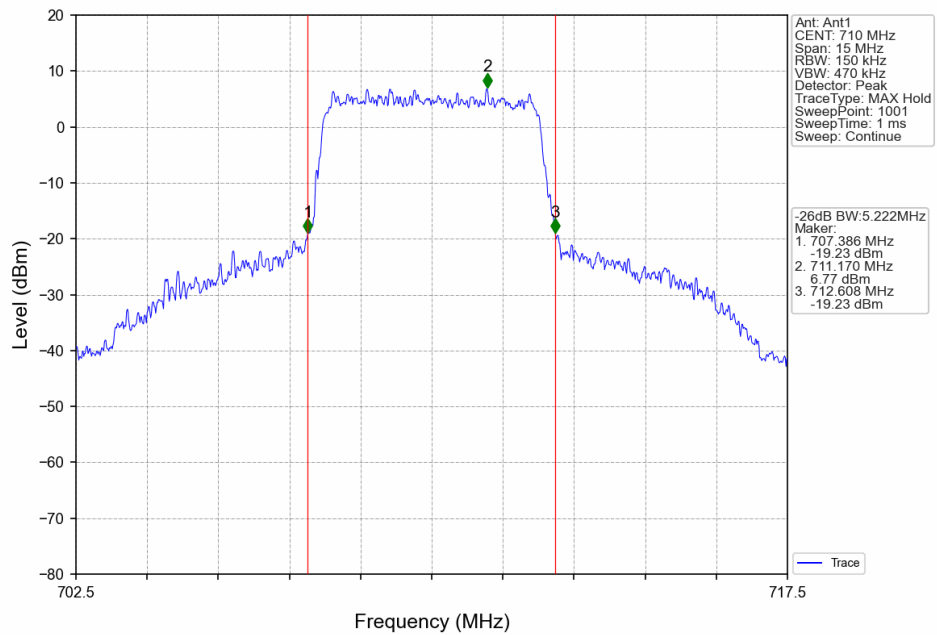
Band17 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



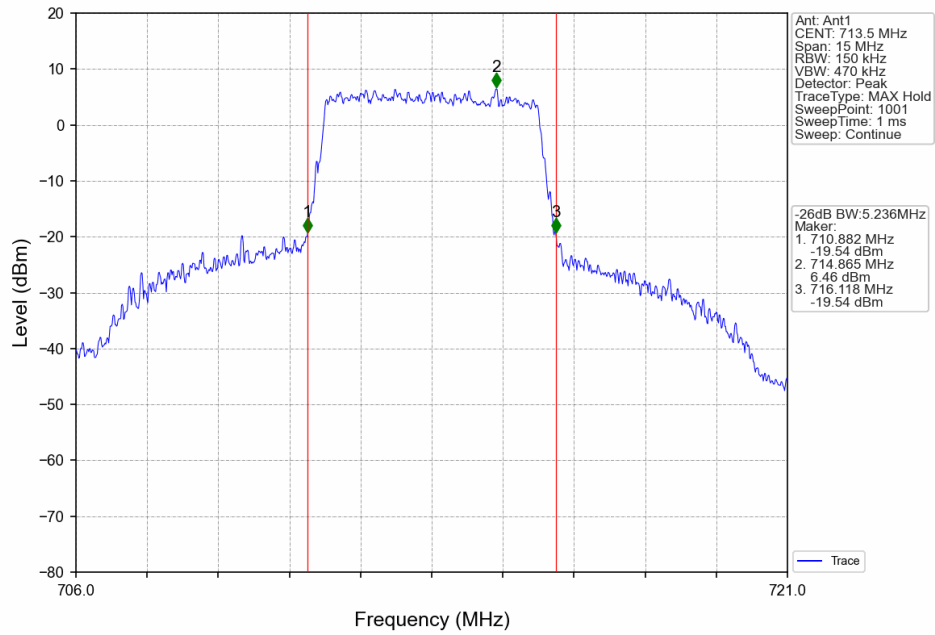
Band17 5MHz 64QAM LCH 706.5MHz RB 25 0 NTNV



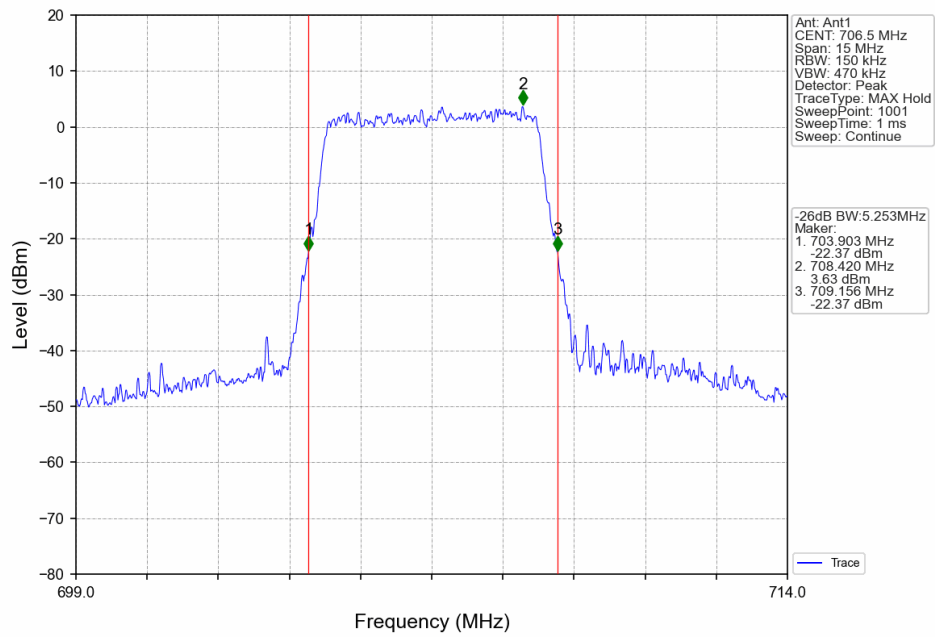
Band17 5MHz 64QAM MCH 710MHz RB 25 0 NTNV



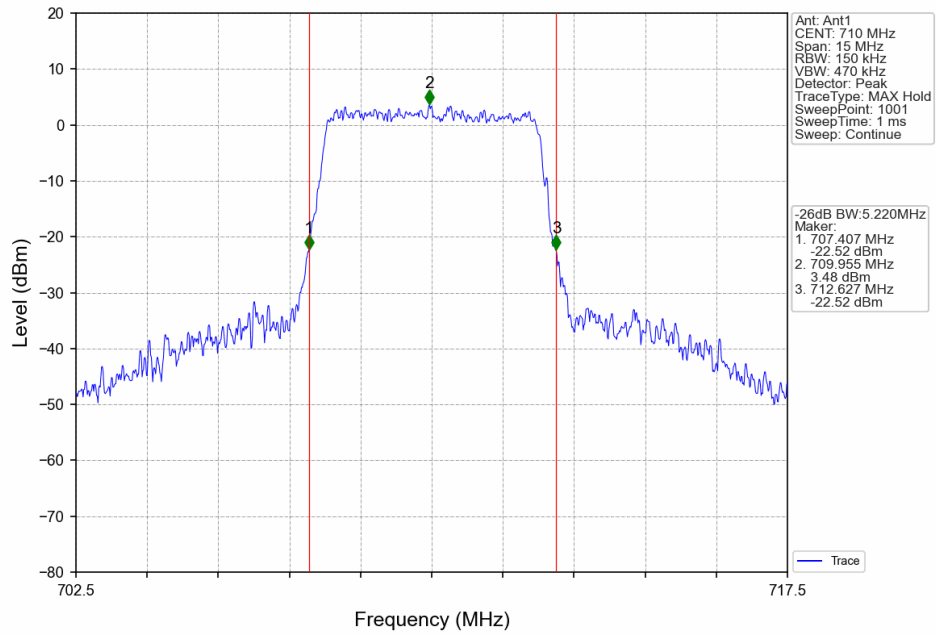
Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTNV



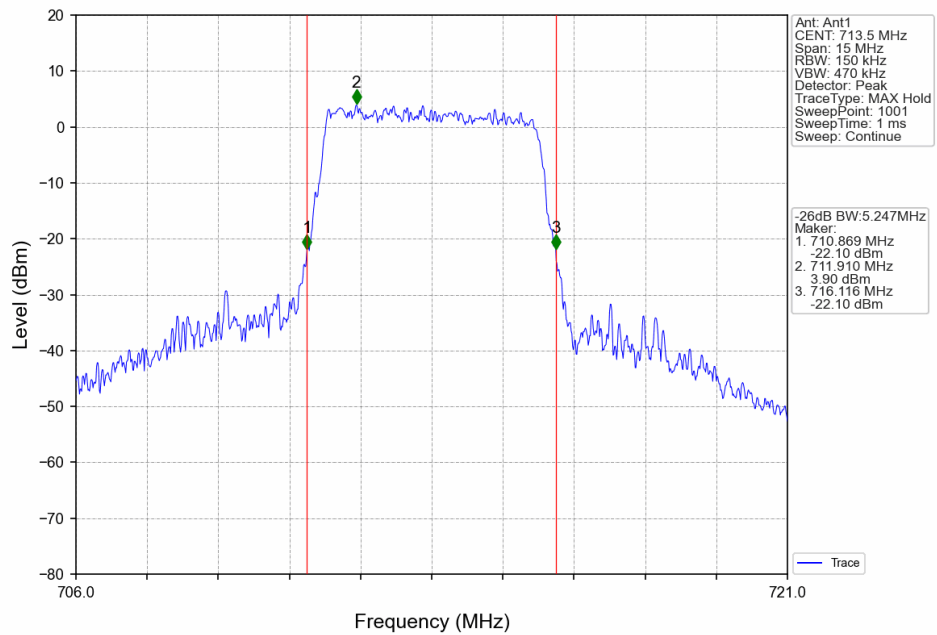
Band17 5MHz 256QAM LCH 706.5MHz RB 25 0 NTNV



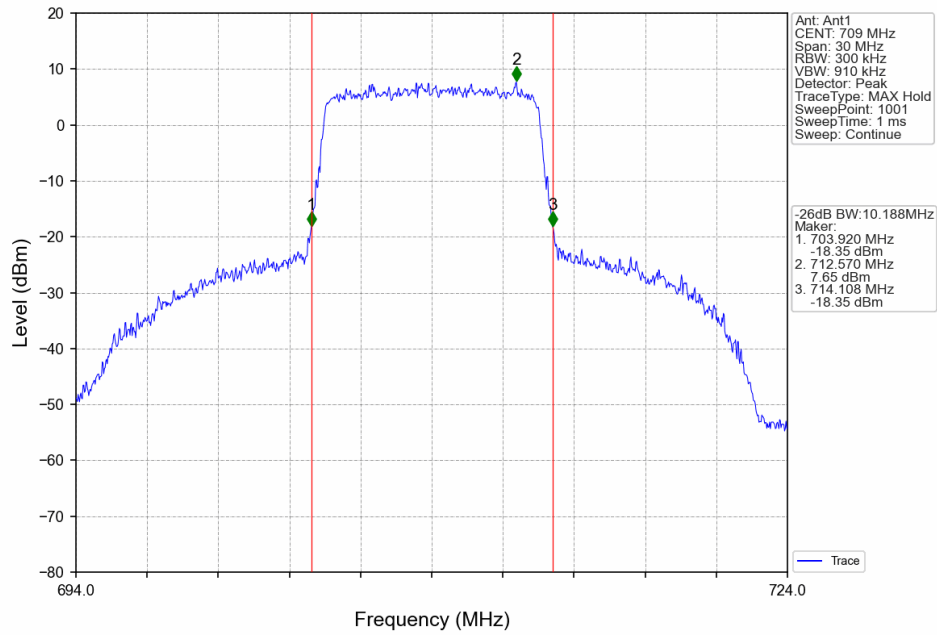
Band17 5MHz 256QAM MCH 710MHz RB 25 0 NTN



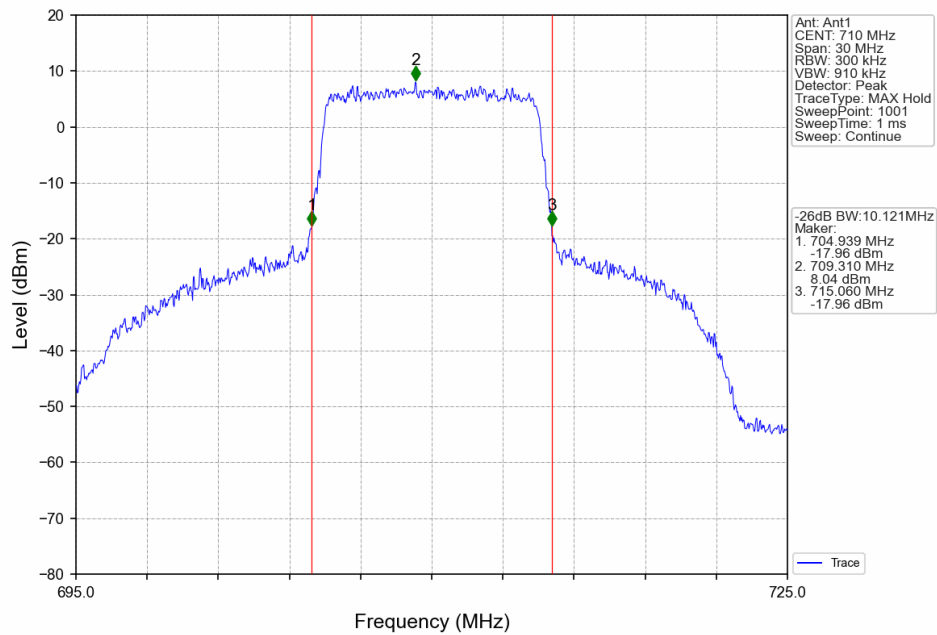
Band17 5MHz 256QAM HCH 713.5MHz RB 25 0 NTN



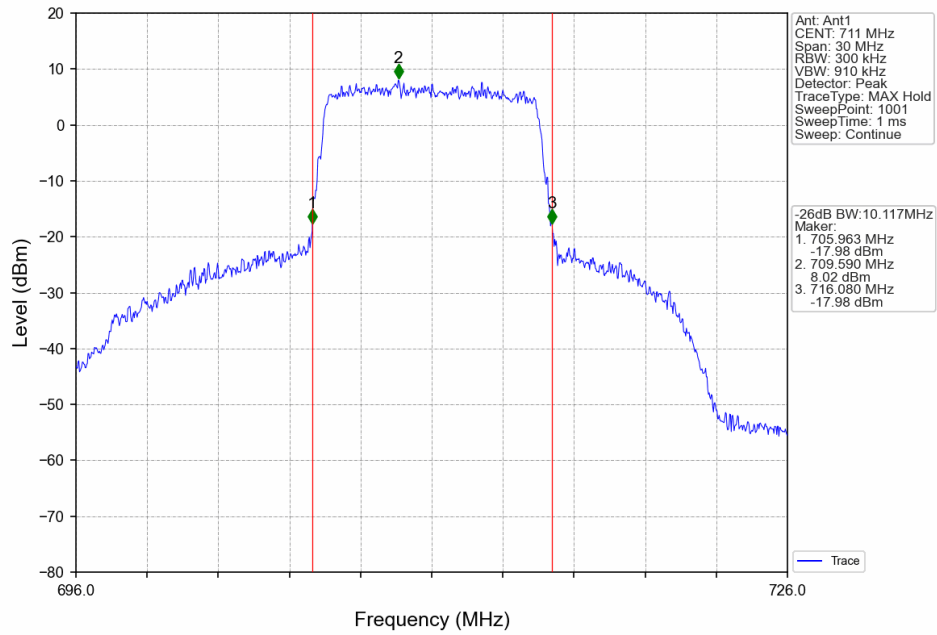
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



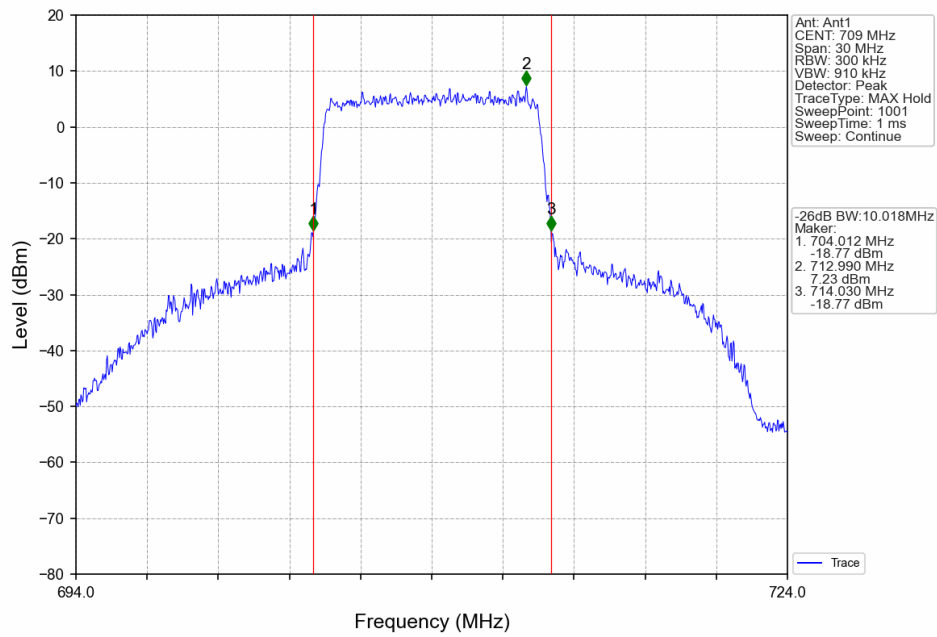
Band17 10MHz QPSK MCH 710MHz RB 50 0 NTN



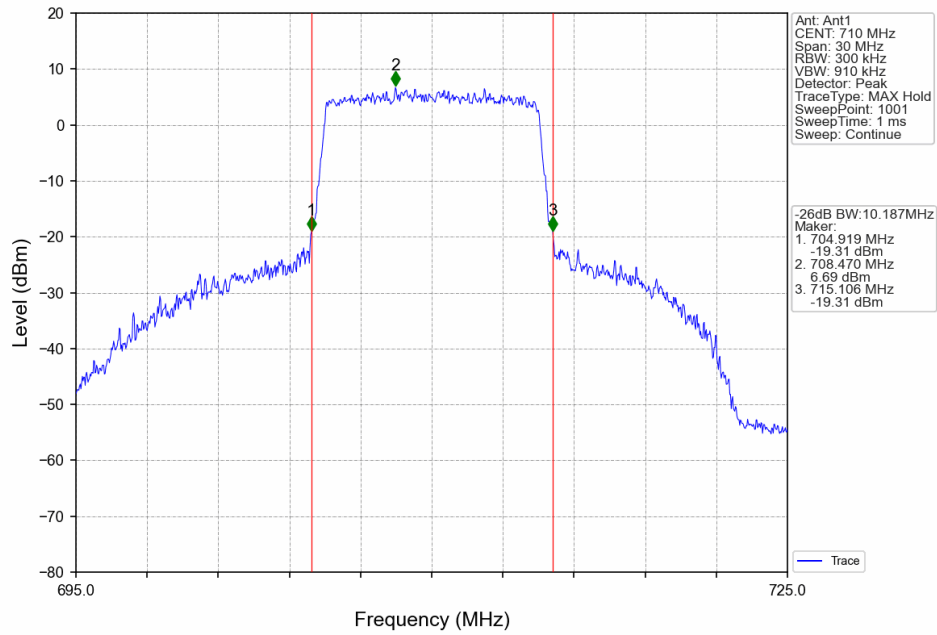
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTN



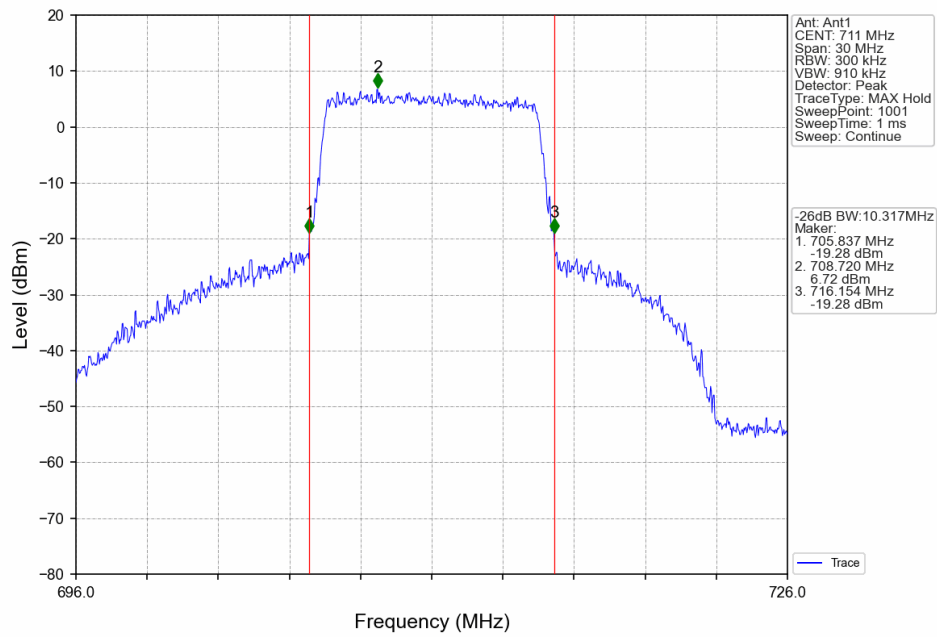
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTN



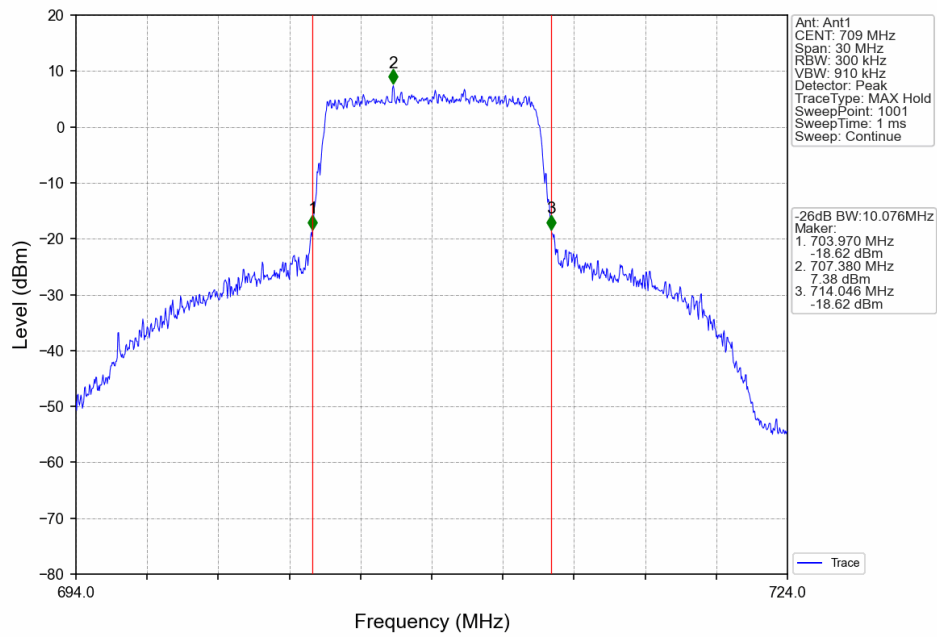
Band17 10MHz 16QAM MCH 710MHz RB 50 0 NTNV



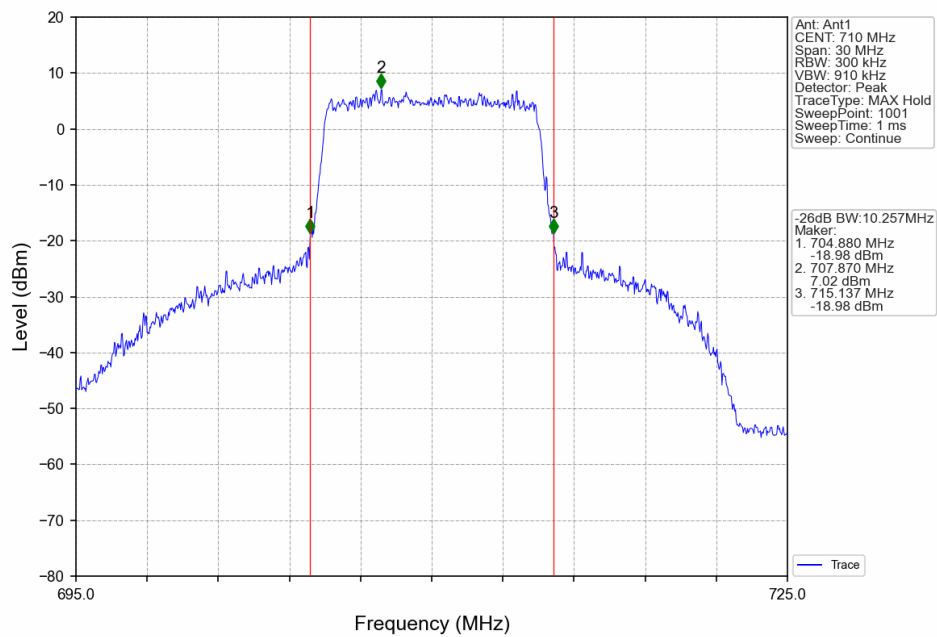
Band17 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



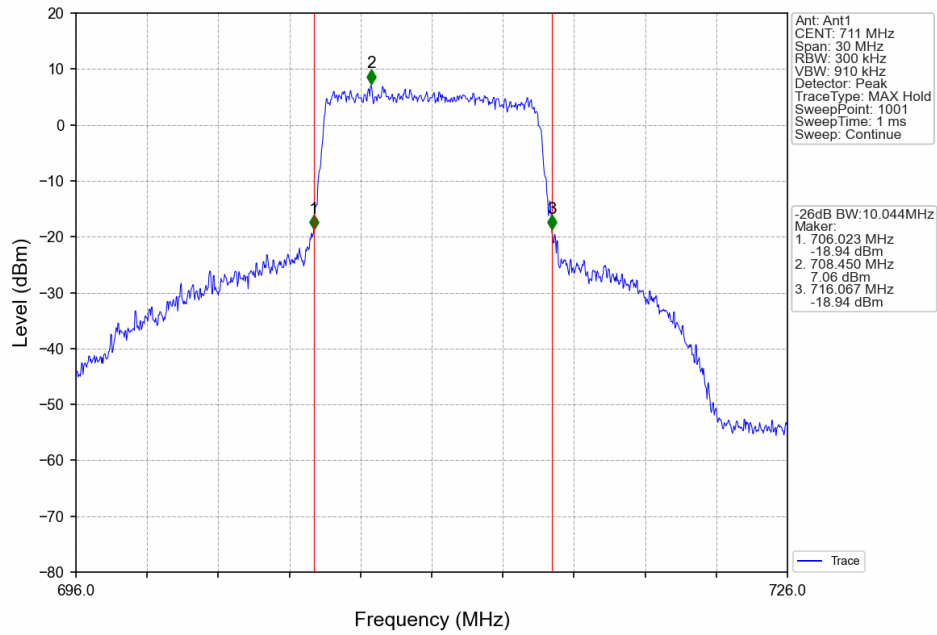
Band17 10MHz 64QAM LCH 709MHz RB 50 0 NTN



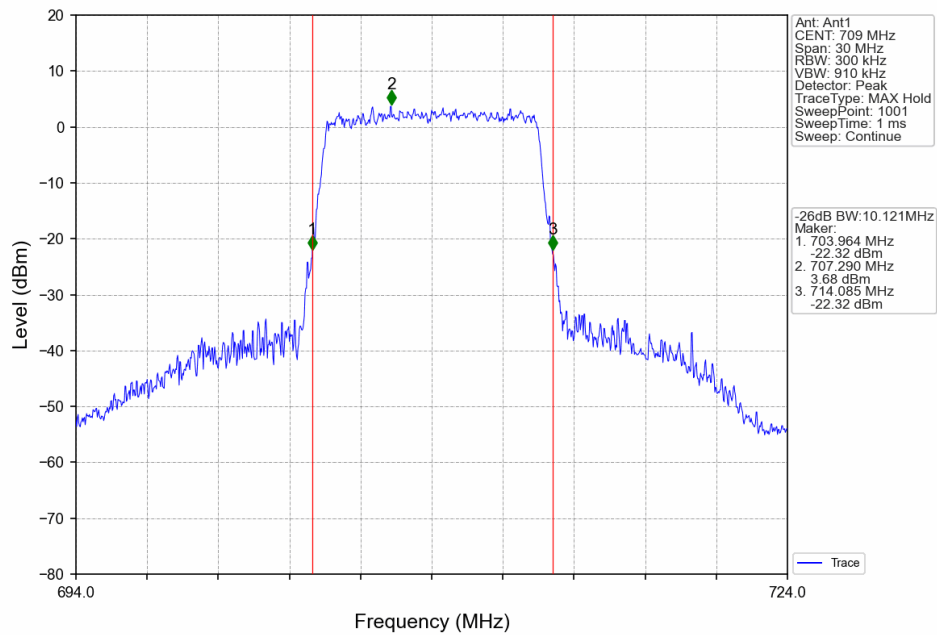
Band17 10MHz 64QAM MCH 710MHz RB 50 0 NTN



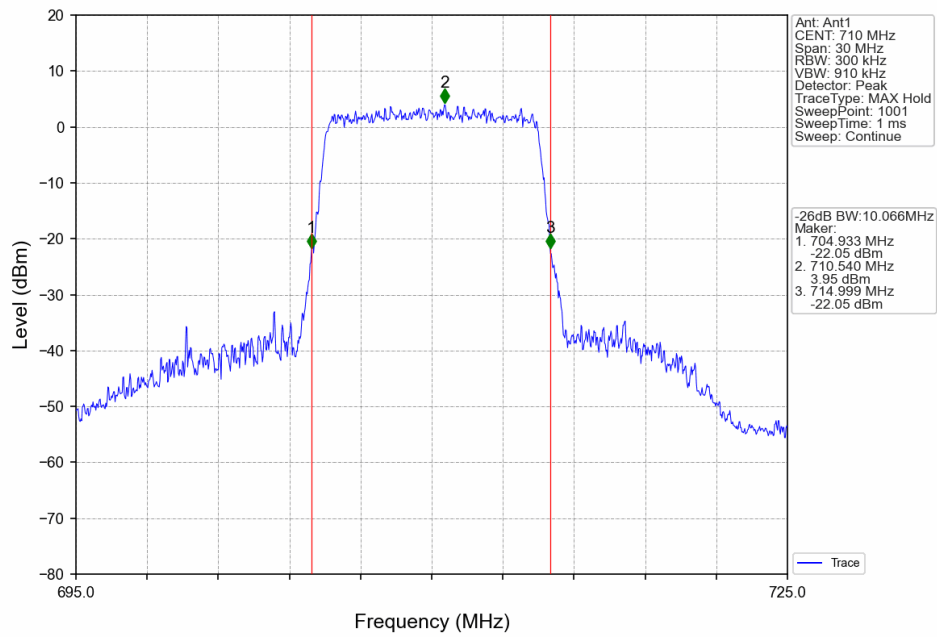
Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTV



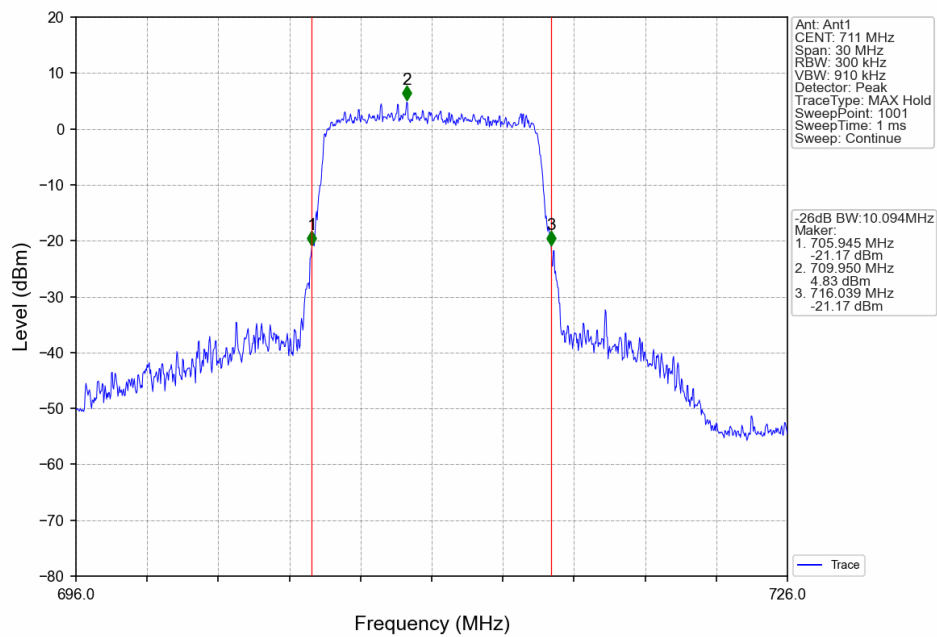
Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTV



Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



4. Peak-Average Ratio

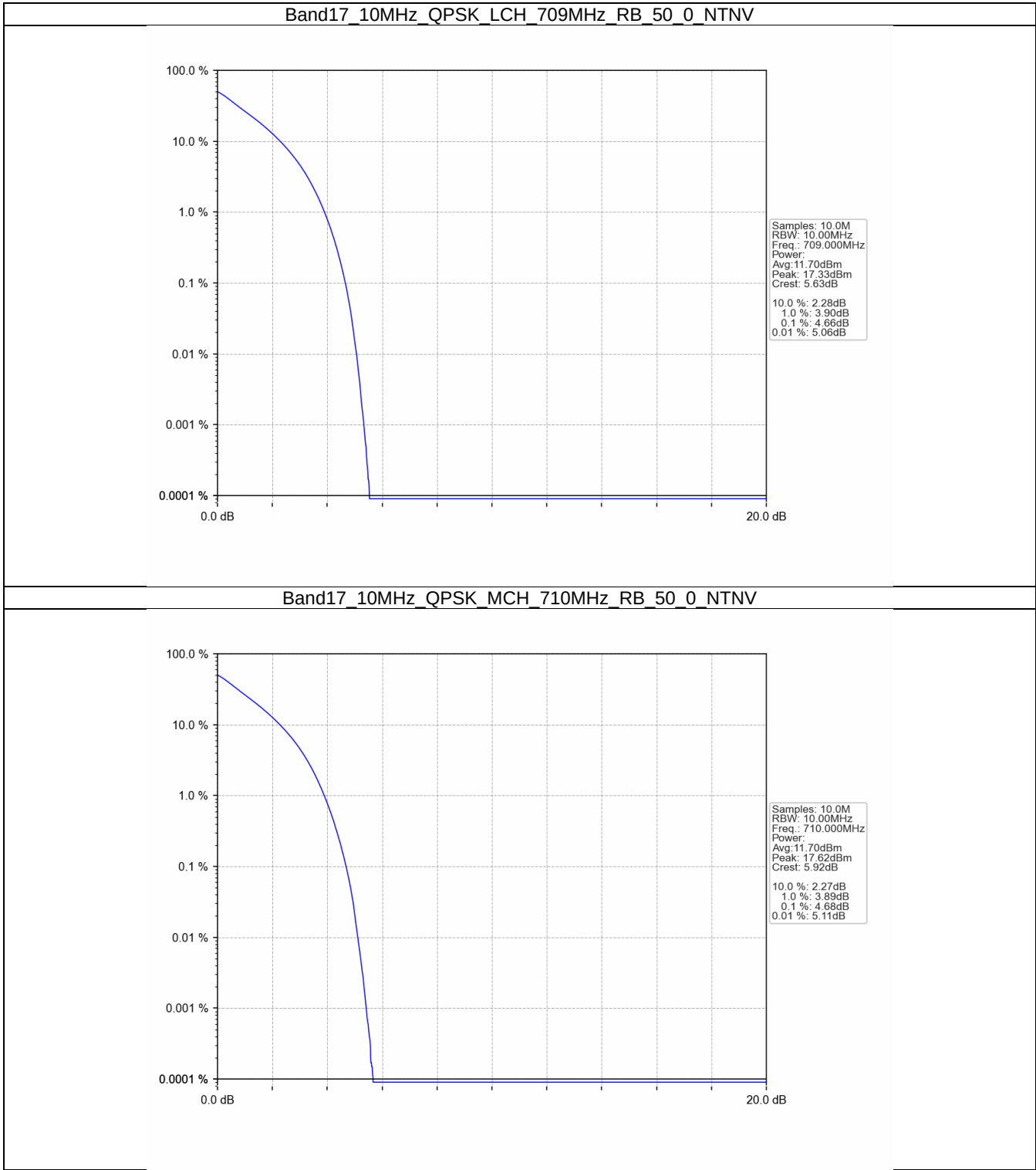
4.1 Test Result

4.1.1 B17_10MHz

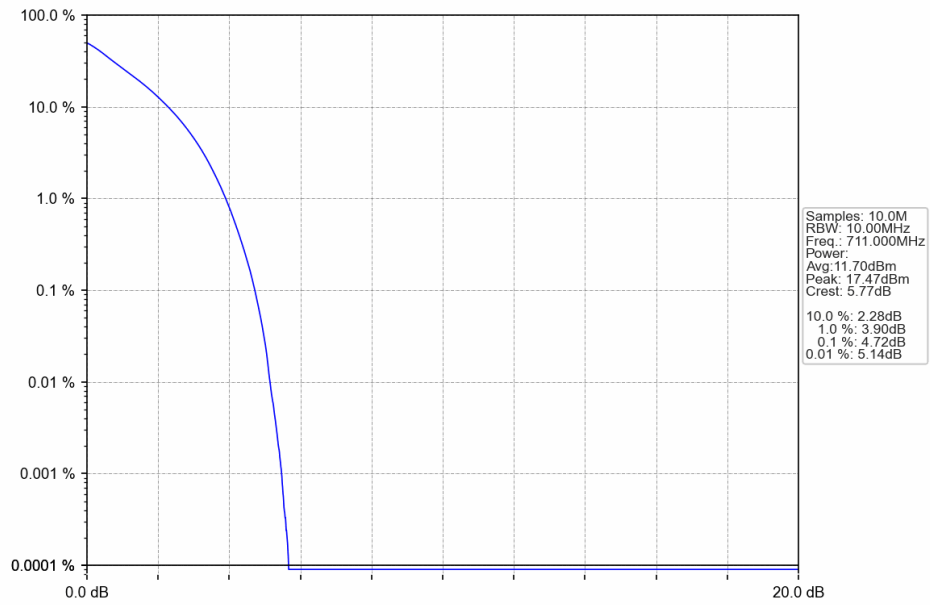
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	4.66	<=13	Pass
	710	50	0	4.68	<=13	Pass
	711	50	0	4.72	<=13	Pass
16QAM	709	50	0	5.37	<=13	Pass
	710	50	0	5.37	<=13	Pass
	711	50	0	5.39	<=13	Pass
64QAM	709	50	0	5.37	<=13	Pass
	710	50	0	5.37	<=13	Pass
	711	50	0	5.40	<=13	Pass
256QAM	709	50	0	6.41	<=13	Pass
	710	50	0	6.40	<=13	Pass
	711	50	0	6.42	<=13	Pass

4.2 Test Graph

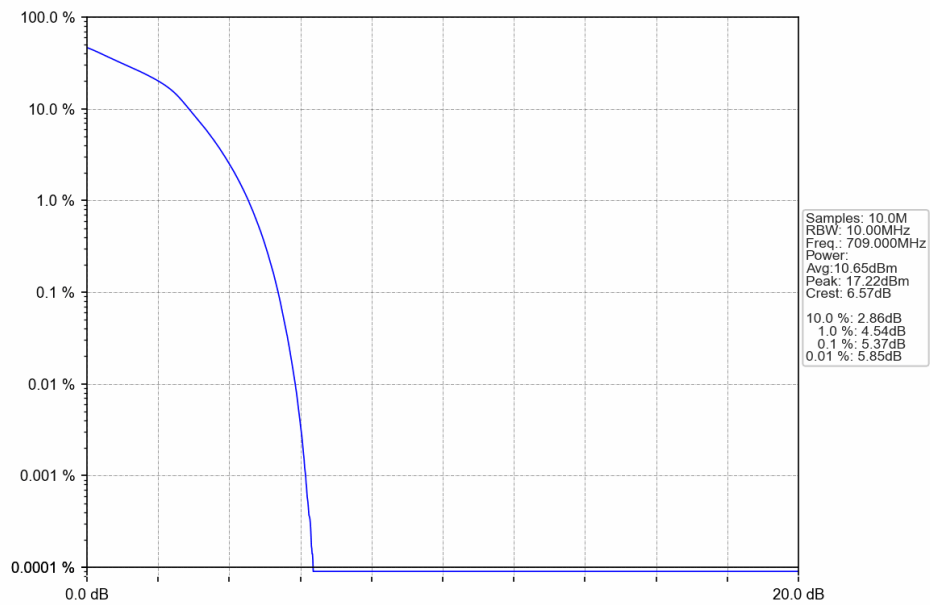
4.2.1 B17_10MHz



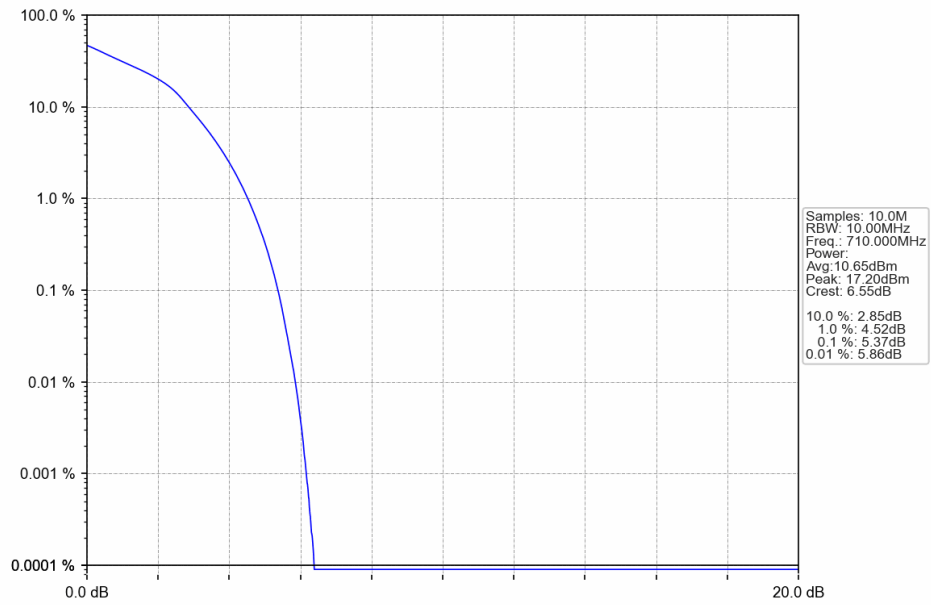
Band17 10MHz QPSK HCH 711MHz RB 50 0 NTN



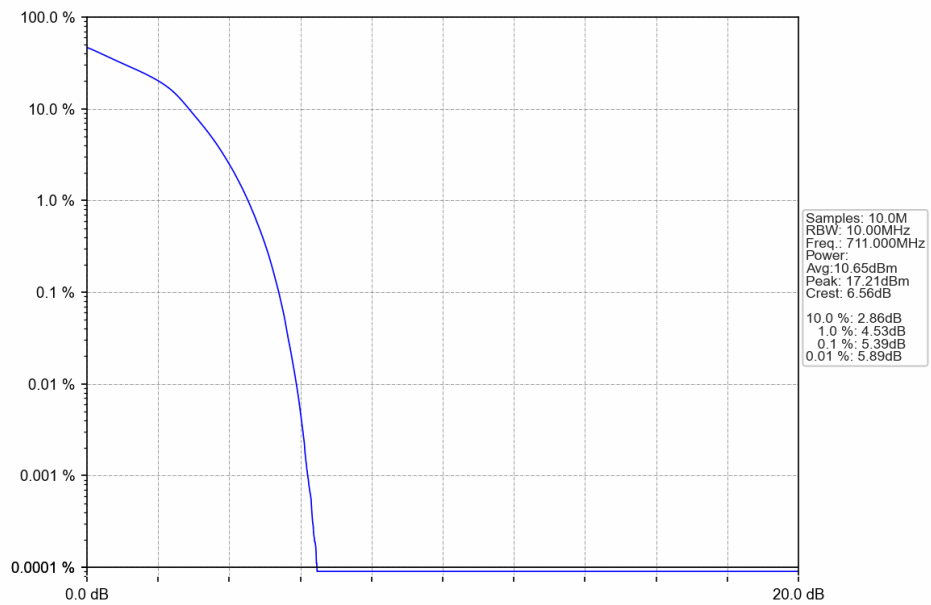
Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTN



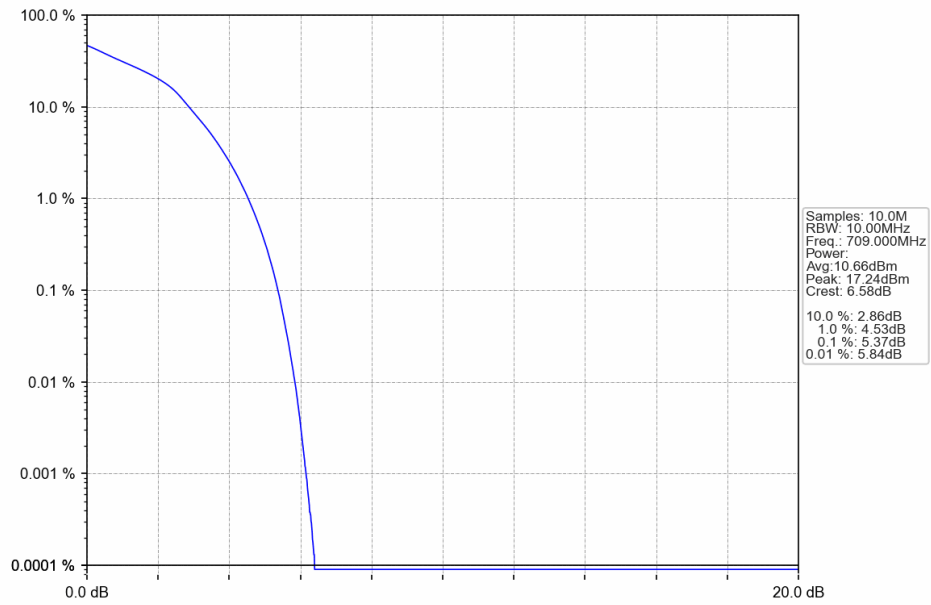
Band17 10MHz 16QAM MCH 710MHz RB 50 0 NTNV



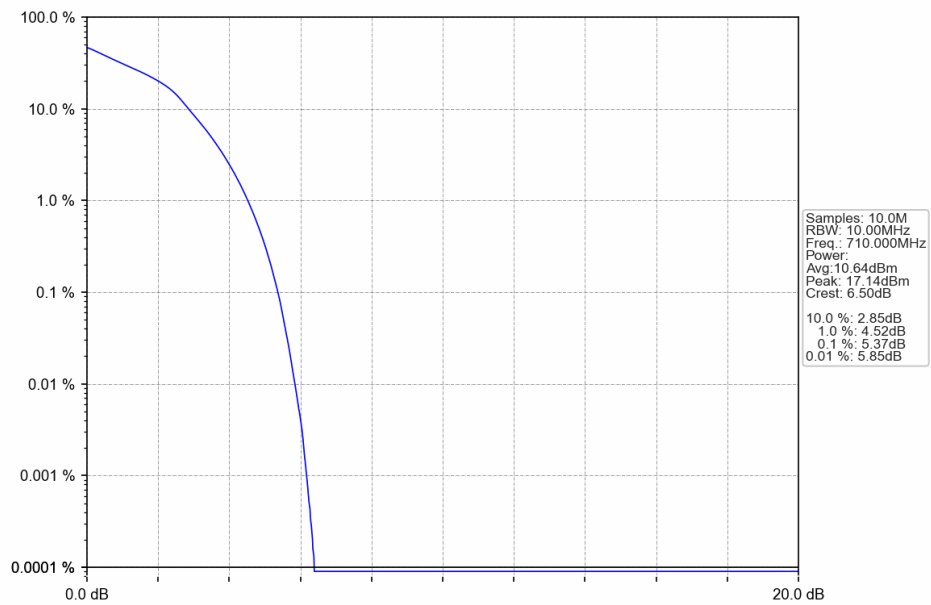
Band17 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



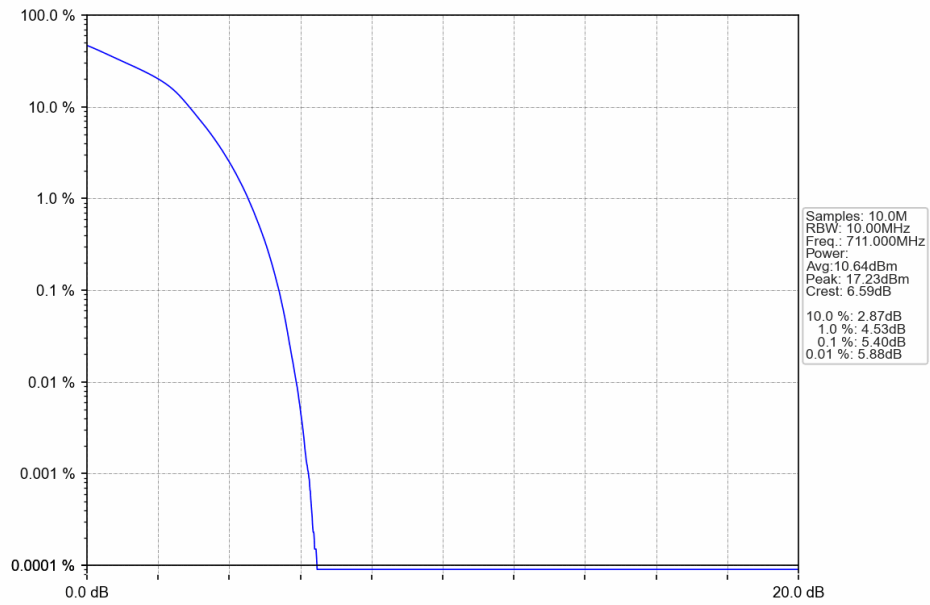
Band17 10MHz 64QAM LCH 709MHz RB 50 0 NTNV



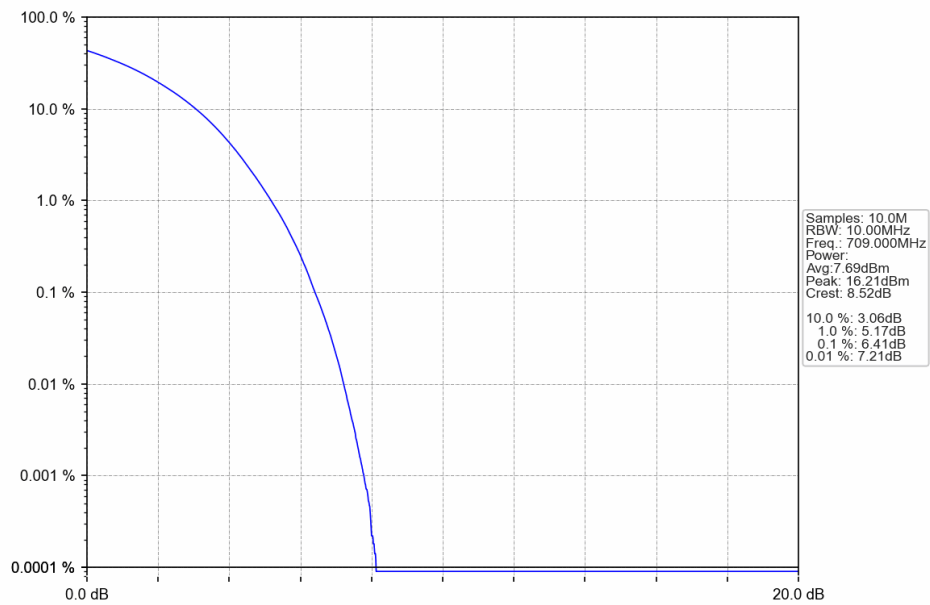
Band17 10MHz 64QAM MCH 710MHz RB 50 0 NTNV



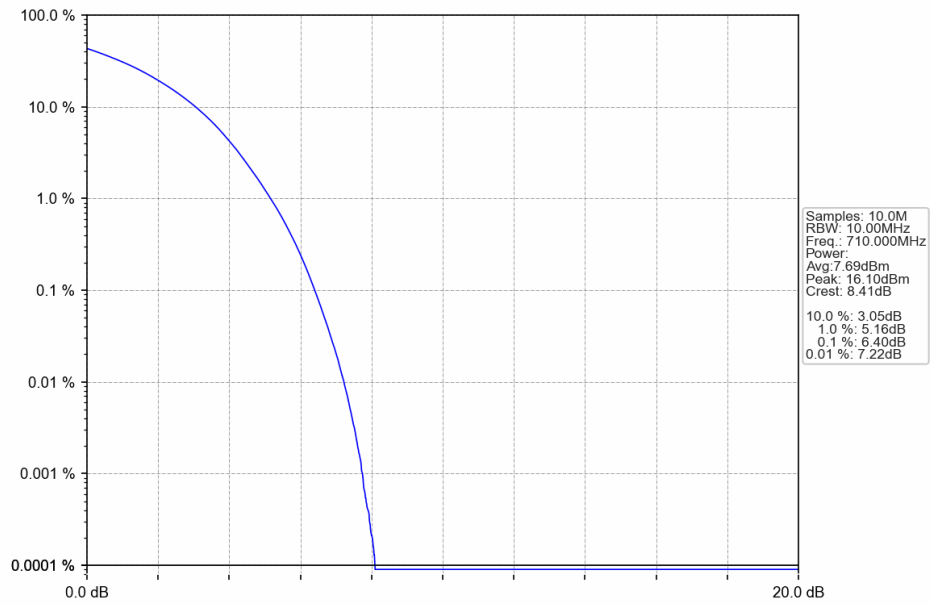
Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTNV



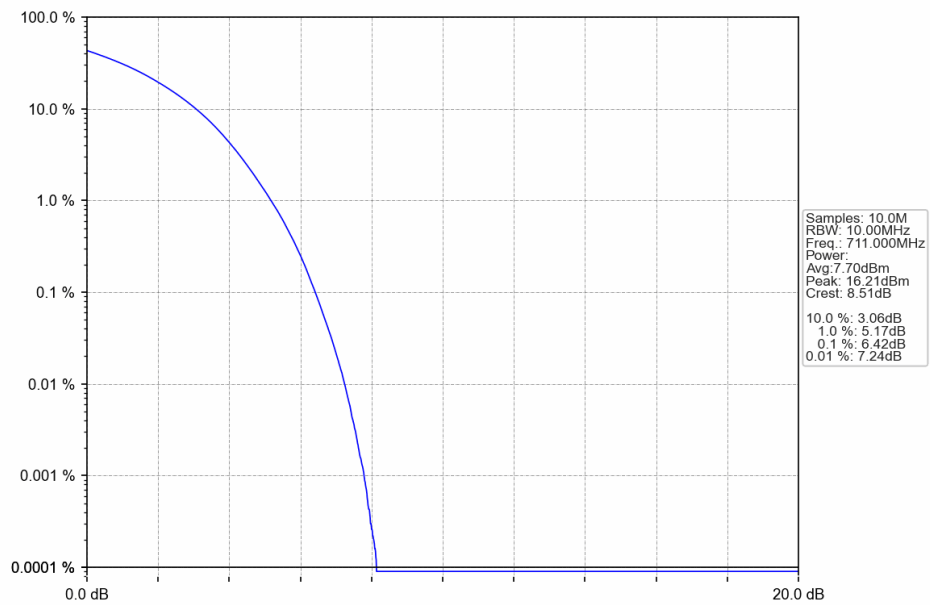
Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTNV



Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTNV



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTNV



5. Spurious Emission & Band Edges

5.1 Test Result

5.1.1 B17_5MHz

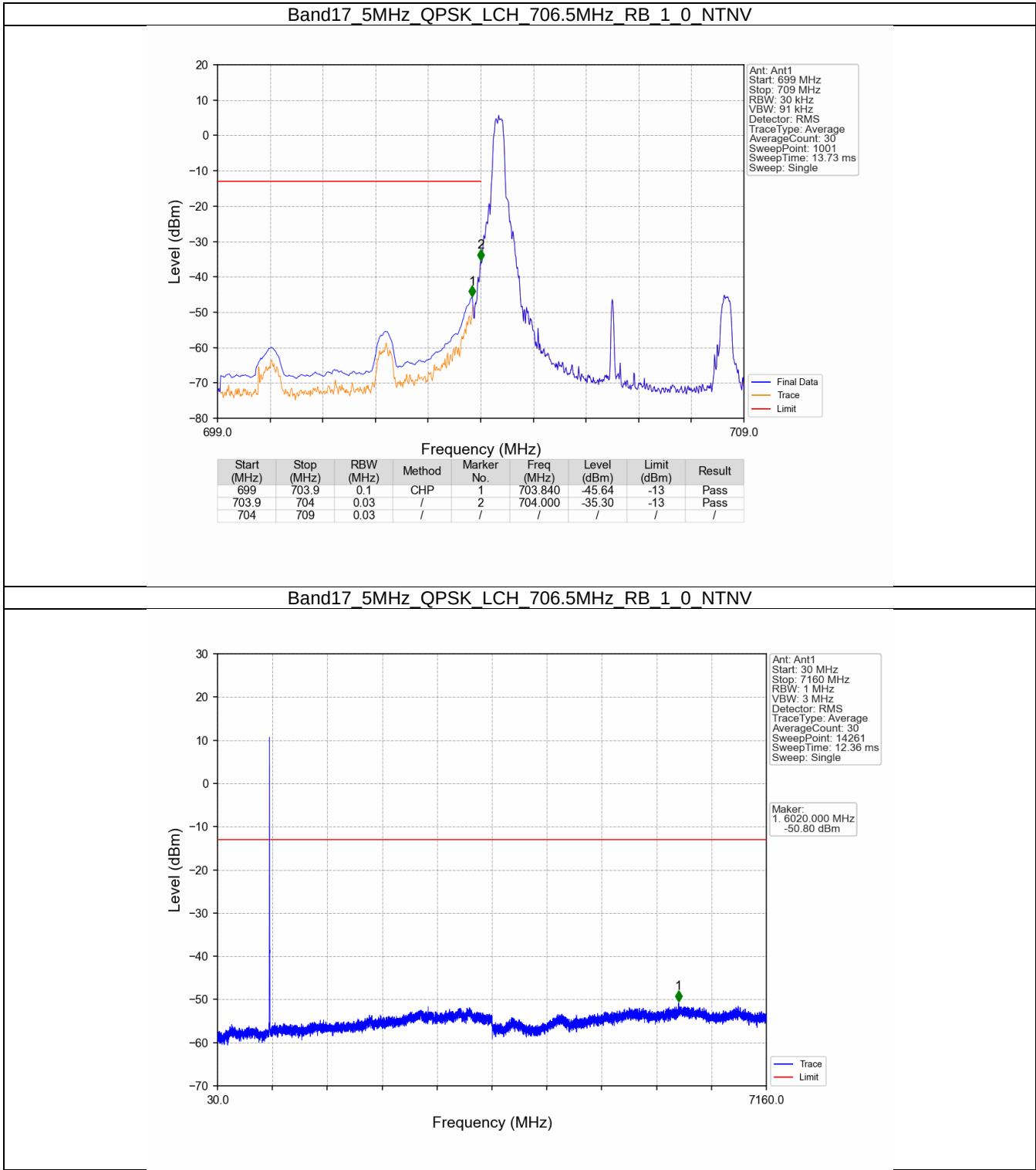
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B17_10MHz

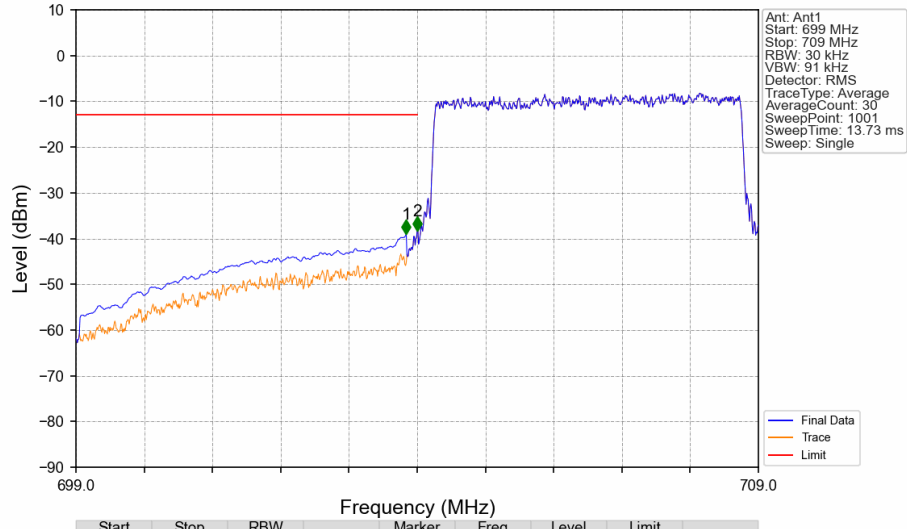
Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B17_5MHz

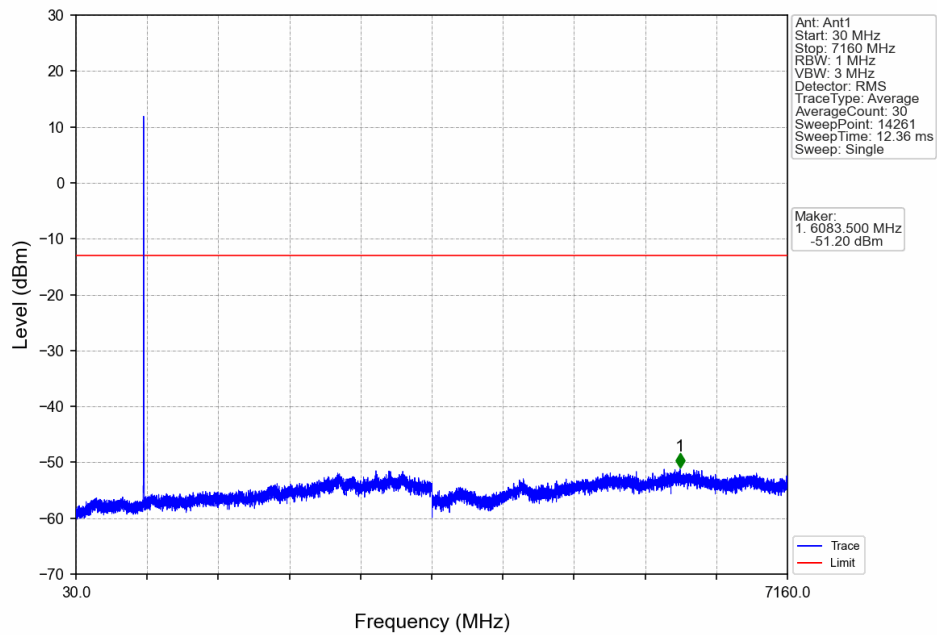


Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV

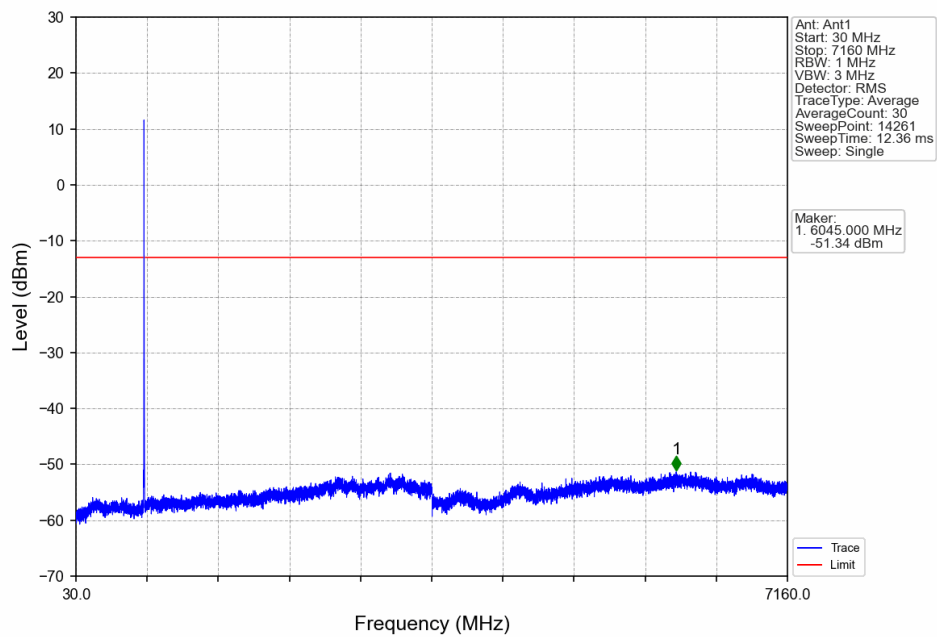


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-39.04	-13	Pass
703.9	704	0.03	/	2	704.000	-38.33	-13	Pass
704	709	0.03	/	/	/	/	/	/

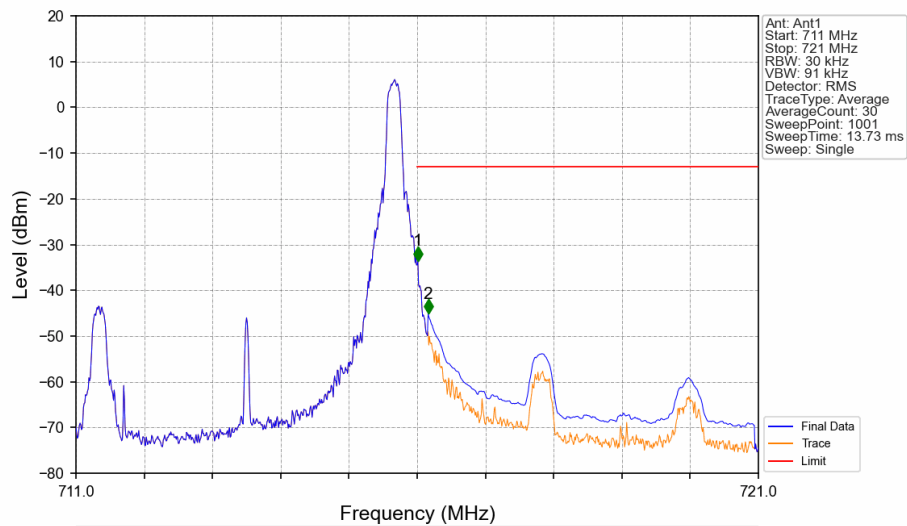
Band17 5MHz QPSK MCH 710MHz RB 1 0 NTNV



Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTN

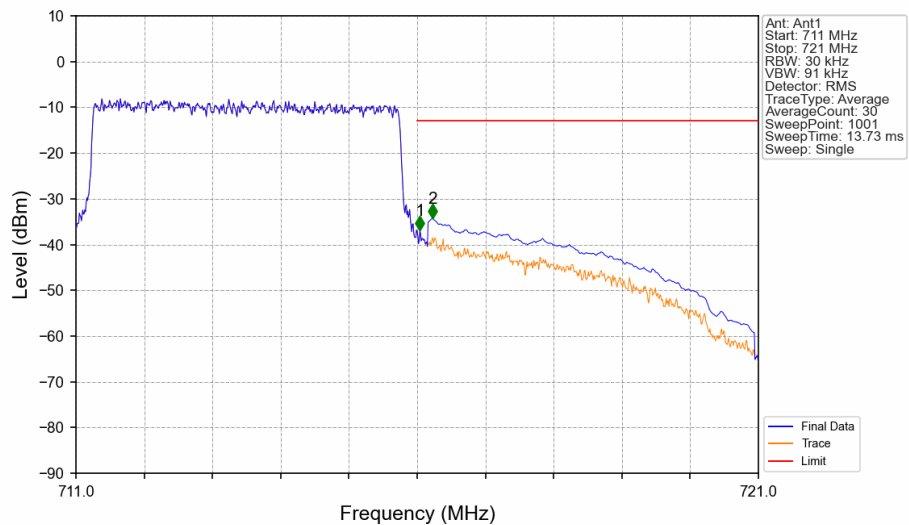


Band17 5MHz QPSK HCH 713.5MHz RB 1 24 NTN



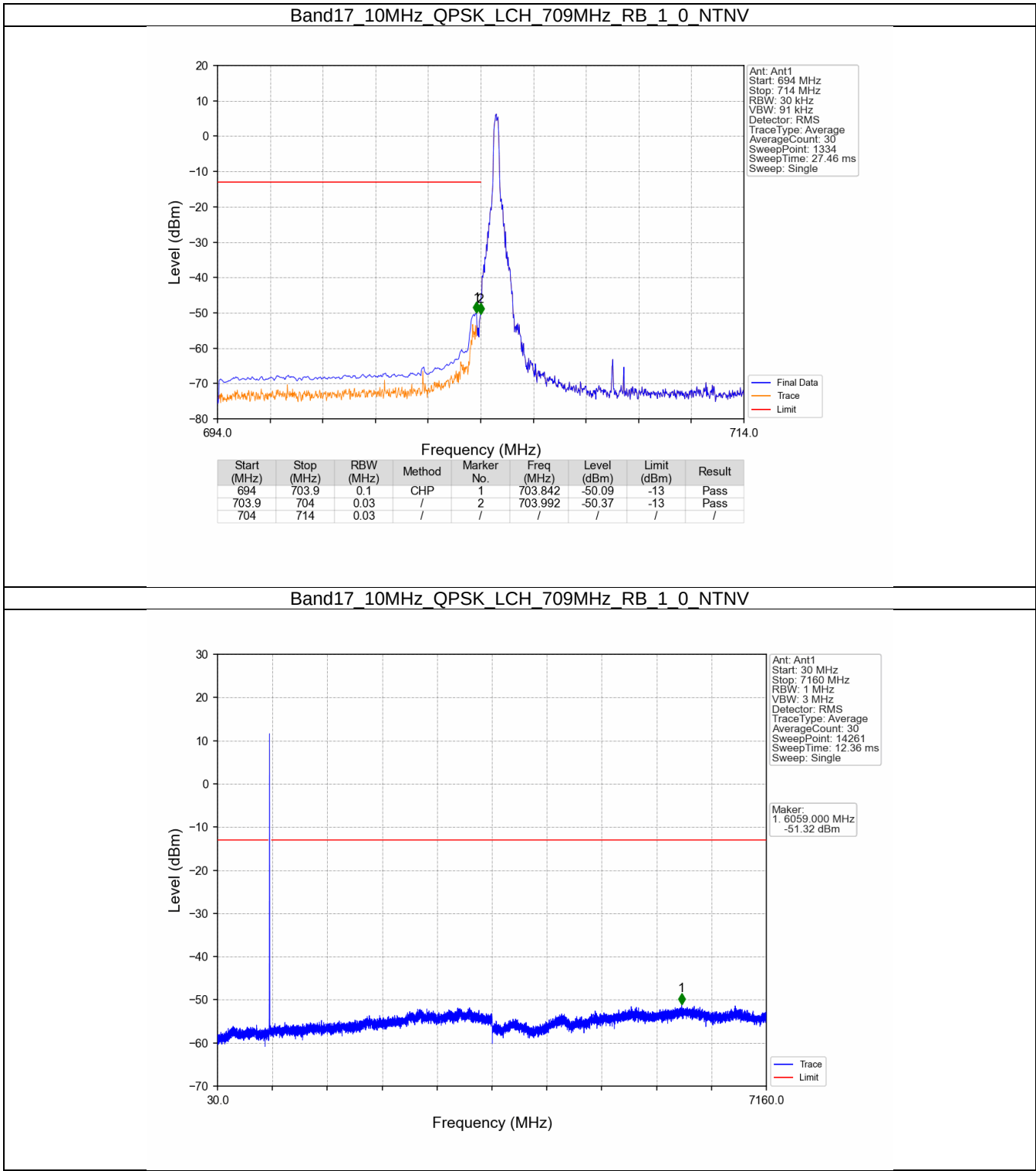
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.010	-33.53	-13	Pass
716	716.1	0.03	/	2	716.160	-45.16	-13	Pass
716.1	721	0.1	CHP					

Band17 5MHz QPSK HCH 713.5MHz RB 25 0 NTNv

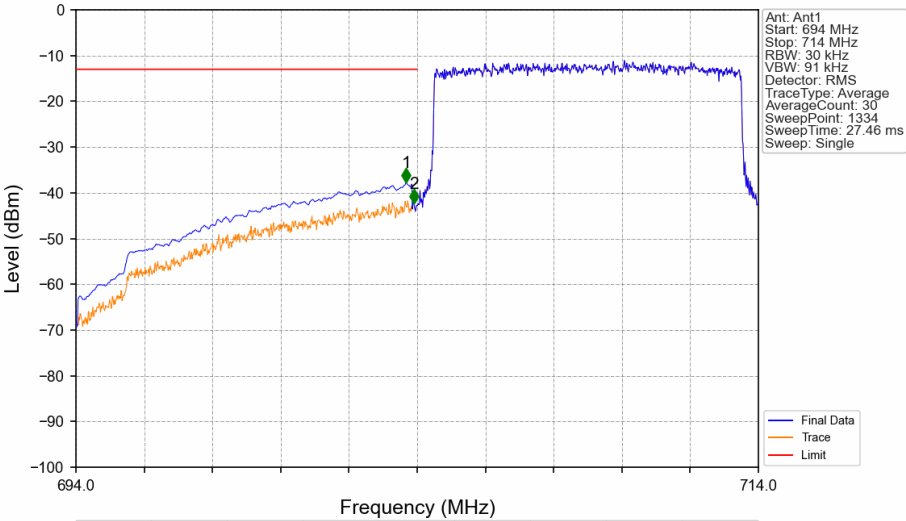


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-36.95	-13	Pass
716.1	721	0.1	CHP	2	716.230	-34.26	-13	Pass

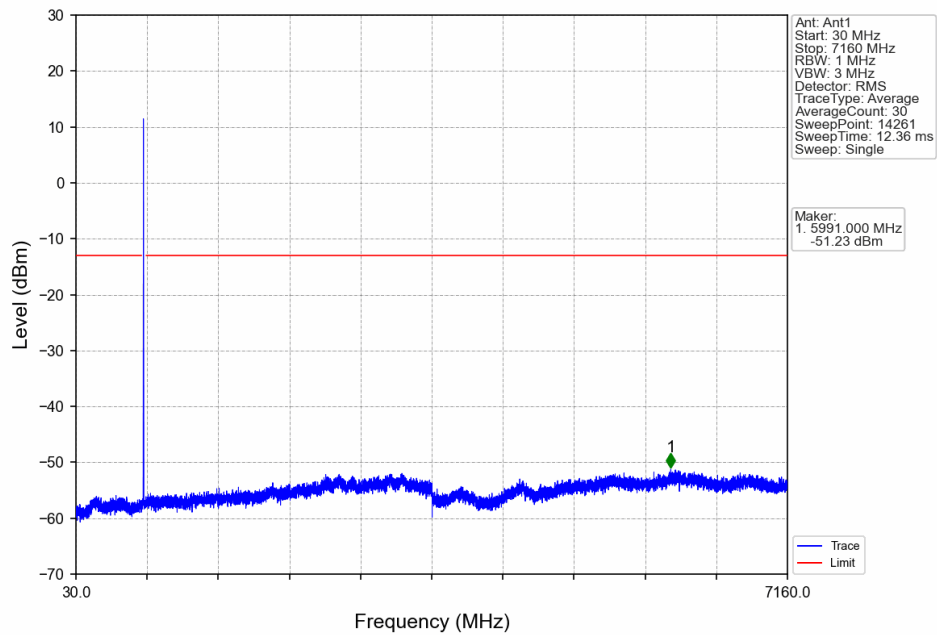
5.2.2 B17_10MHz



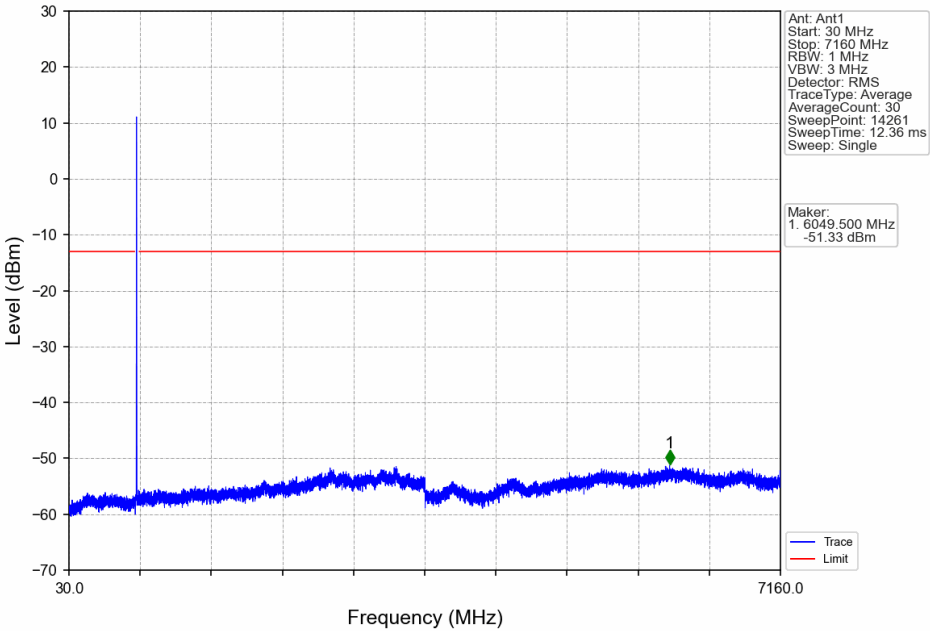
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTNV



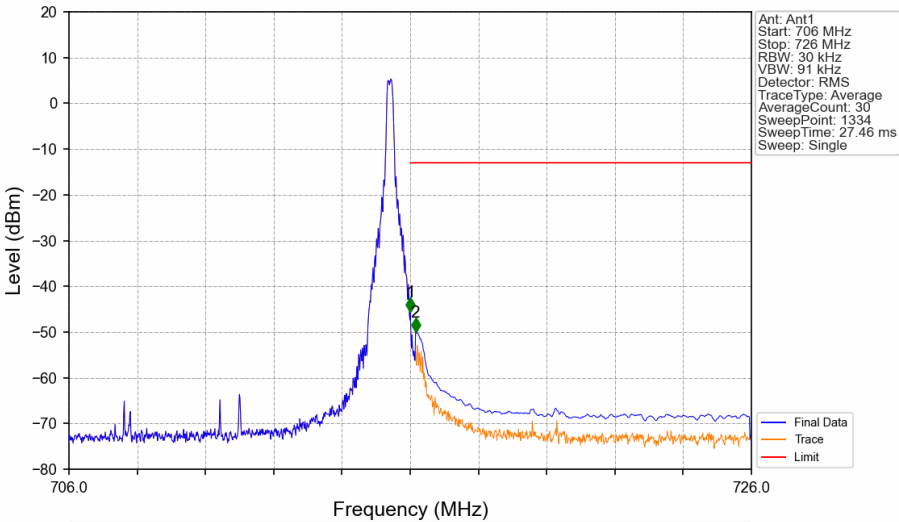
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNV



Band17 10MHz QPSK HCH 711MHz RB 1 0 NTN

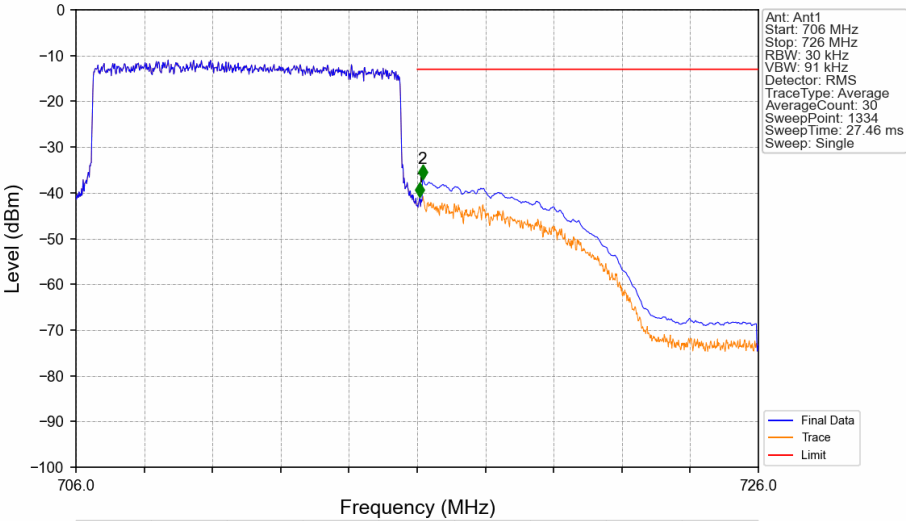


Band17 10MHz QPSK HCH 711MHz RB 1 49 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-45.64	-13	Pass
716	716.1	0.03	/	2	716.158	-50.05	-13	Pass
716.1	726	0.1	CHP					

Band17 10MHz QPSK HCH 711MHz RB 50 0 NTN



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	-40.93	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.95	-13	Pass

Field Strength of Spurious Radiation

LTE Band 17 ANT31-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409.0	-60.57	-13	-47.57	-63.39	2.48	5.3	Horizontal	Pass
2113.5	-69.78	-13	-56.78	-71.87	2.8	4.89	Horizontal	Pass
2818.0	-68.72	-13	-55.72	-72.12	3.12	6.52	Horizontal	Pass
1409.0	-60.57	-13	-47.57	-63.39	2.48	5.3	Vertical	Pass
2113.5	-70.12	-13	-57.12	-72.21	2.8	4.89	Vertical	Pass
2818.0	-68.69	-13	-55.69	-72.09	3.12	6.52	Vertical	Pass

LTE Band 17 ANT31-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411.0	-64.45	-13	-51.45	-67.28	2.49	5.32	Horizontal	Pass
2116.5	-70.12	-13	-57.12	-72.22	2.8	4.9	Horizontal	Pass
2822.0	-68.91	-13	-55.91	-72.31	3.13	6.53	Horizontal	Pass
1411.0	-70.18	-13	-57.18	-73.01	2.49	5.32	Vertical	Pass
2116.5	-69.94	-13	-56.94	-72.04	2.8	4.9	Vertical	Pass
2822.0	-68.86	-13	-55.86	-72.26	3.13	6.53	Vertical	Pass

LTE Band 17 ANT31-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-64.84	-13	-51.84	-67.68	2.49	5.33	Horizontal	Pass
2119.5	-69.81	-13	-56.81	-71.91	2.81	4.91	Horizontal	Pass
2826.0	-69.34	-13	-56.34	-72.75	3.13	6.54	Horizontal	Pass
1413.0	-70.51	-13	-57.51	-73.35	2.49	5.33	Vertical	Pass
2119.5	-70.48	-13	-57.48	-72.58	2.81	4.91	Vertical	Pass
2826.0	-68.77	-13	-55.77	-72.18	3.13	6.54	Vertical	Pass

Remark:

- The field strength is calculated by adding the S.G.Power, Antenna Gain & Cable Loss. The basic equation with a sample calculation is as follows:

$$\text{EIRP} = \text{S.G. Power} + \text{Antenna Gain} - \text{Cable Loss}$$

$$\text{Over Limit} = \text{Limit} - \text{EIRP}$$
- All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---