

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.56	-0.31	23.25	<=30	Pass
			2	23.69	-0.31	23.38	<=30	Pass
			5	23.60	-0.31	23.29	<=30	Pass
		3	0	23.49	-0.31	23.18	<=30	Pass
			2	23.54	-0.31	23.23	<=30	Pass
			3	23.53	-0.31	23.22	<=30	Pass
		6	0	22.60	-0.31	22.29	<=30	Pass
	1732.5	1	0	24.64	-0.31	24.33	<=30	Pass
			2	24.51	-0.31	24.20	<=30	Pass
			5	24.37	-0.31	24.06	<=30	Pass
		3	0	24.43	-0.31	24.12	<=30	Pass
			2	24.50	-0.31	24.19	<=30	Pass
			3	24.47	-0.31	24.16	<=30	Pass
		6	0	23.44	-0.31	23.13	<=30	Pass
	1754.3	1	0	24.01	-0.31	23.70	<=30	Pass
			2	24.11	-0.31	23.80	<=30	Pass
			5	23.98	-0.31	23.67	<=30	Pass
		3	0	24.16	-0.31	23.85	<=30	Pass
			2	24.18	-0.31	23.87	<=30	Pass
			3	24.10	-0.31	23.79	<=30	Pass
		6	0	23.12	-0.31	22.81	<=30	Pass
16QAM	1710.7	1	0	22.26	-0.31	21.95	<=30	Pass
			2	22.40	-0.31	22.09	<=30	Pass
			5	22.36	-0.31	22.05	<=30	Pass
		3	0	22.55	-0.31	22.24	<=30	Pass
			2	22.65	-0.31	22.34	<=30	Pass
			3	22.66	-0.31	22.35	<=30	Pass
		6	0	21.44	-0.31	21.13	<=30	Pass
	1732.5	1	0	23.42	-0.31	23.11	<=30	Pass
			2	23.54	-0.31	23.23	<=30	Pass
			5	23.46	-0.31	23.15	<=30	Pass
		3	0	23.58	-0.31	23.27	<=30	Pass
			2	23.60	-0.31	23.29	<=30	Pass
			3	23.60	-0.31	23.29	<=30	Pass
		6	0	22.39	-0.31	22.08	<=30	Pass
	1754.3	1	0	23.23	-0.31	22.92	<=30	Pass
			2	23.35	-0.31	23.04	<=30	Pass
			5	23.22	-0.31	22.91	<=30	Pass
		3	0	23.16	-0.31	22.85	<=30	Pass
			2	23.20	-0.31	22.89	<=30	Pass
			3	23.19	-0.31	22.88	<=30	Pass
		6	0	22.15	-0.31	21.84	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.02	-0.31	22.71	<=30	Pass
			7	23.25	-0.31	22.94	<=30	Pass
			14	23.21	-0.31	22.90	<=30	Pass
		8	0	22.03	-0.31	21.72	<=30	Pass
			4	22.12	-0.31	21.81	<=30	Pass
			7	22.15	-0.31	21.84	<=30	Pass
		15	0	22.04	-0.31	21.73	<=30	Pass
	1732.5	1	0	24.27	-0.31	23.96	<=30	Pass
			7	24.47	-0.31	24.16	<=30	Pass
			14	24.31	-0.31	24.00	<=30	Pass
		8	0	23.40	-0.31	23.09	<=30	Pass
			4	23.43	-0.31	23.12	<=30	Pass
			7	23.41	-0.31	23.10	<=30	Pass
	15	0	23.33	-0.31	23.02	<=30	Pass	
	1753.5	1	0	24.04	-0.31	23.73	<=30	Pass
			7	24.15	-0.31	23.84	<=30	Pass
			14	23.96	-0.31	23.65	<=30	Pass
		8	0	23.11	-0.31	22.80	<=30	Pass
			4	23.10	-0.31	22.79	<=30	Pass
			7	23.05	-0.31	22.74	<=30	Pass
		15	0	23.08	-0.31	22.77	<=30	Pass
16QAM	1711.5	1	0	21.88	-0.31	21.57	<=30	Pass
			7	22.14	-0.31	21.83	<=30	Pass
			14	22.12	-0.31	21.81	<=30	Pass
		8	0	21.02	-0.31	20.71	<=30	Pass
			4	21.14	-0.31	20.83	<=30	Pass
			7	21.14	-0.31	20.83	<=30	Pass
		15	0	21.02	-0.31	20.71	<=30	Pass
	1732.5	1	0	23.51	-0.31	23.20	<=30	Pass
			7	23.66	-0.31	23.35	<=30	Pass
			14	23.52	-0.31	23.21	<=30	Pass
		8	0	22.35	-0.31	22.04	<=30	Pass
			4	22.40	-0.31	22.09	<=30	Pass
			7	22.37	-0.31	22.06	<=30	Pass
	15	0	22.37	-0.31	22.06	<=30	Pass	
	1753.5	1	0	23.63	-0.31	23.32	<=30	Pass
			7	23.76	-0.31	23.45	<=30	Pass
			14	23.57	-0.31	23.26	<=30	Pass
		8	0	22.27	-0.31	21.96	<=30	Pass
4			22.27	-0.31	21.96	<=30	Pass	
7			22.22	-0.31	21.91	<=30	Pass	
15		0	22.17	-0.31	21.86	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	22.79	-0.31	22.48	<=30	Pass
			13	23.20	-0.31	22.89	<=30	Pass
			24	23.25	-0.31	22.94	<=30	Pass

		12	0	22.01	-0.31	21.70	<=30	Pass		
			6	22.13	-0.31	21.82	<=30	Pass		
			13	22.20	-0.31	21.89	<=30	Pass		
		25	0	22.12	-0.31	21.81	<=30	Pass		
			1732.5	1	0	24.16	-0.31	23.85	<=30	Pass
					13	24.30	-0.31	23.99	<=30	Pass
		24			24.15	-0.31	23.84	<=30	Pass	
		12		0	23.23	-0.31	22.92	<=30	Pass	
				6	23.36	-0.31	23.05	<=30	Pass	
	13			23.35	-0.31	23.04	<=30	Pass		
	25	0	23.33	-0.31	23.02	<=30	Pass			
	1752.5	1	0	23.92	-0.31	23.61	<=30	Pass		
			13	24.00	-0.31	23.69	<=30	Pass		
			24	23.80	-0.31	23.49	<=30	Pass		
		12	0	23.03	-0.31	22.72	<=30	Pass		
			6	23.06	-0.31	22.75	<=30	Pass		
			13	22.96	-0.31	22.65	<=30	Pass		
		25	0	23.03	-0.31	22.72	<=30	Pass		
		16QAM	1712.5	1	0	21.79	-0.31	21.48	<=30	Pass
					13	22.22	-0.31	21.91	<=30	Pass
	24				22.34	-0.31	22.03	<=30	Pass	
12	0			20.93	-0.31	20.62	<=30	Pass		
	6			21.11	-0.31	20.80	<=30	Pass		
	13			21.17	-0.31	20.86	<=30	Pass		
25	0			21.11	-0.31	20.80	<=30	Pass		
1732.5	1			0	23.50	-0.31	23.19	<=30	Pass	
				13	23.59	-0.31	23.28	<=30	Pass	
			24	23.44	-0.31	23.13	<=30	Pass		
1752.5	12		0	22.29	-0.31	21.98	<=30	Pass		
		6	22.40	-0.31	22.09	<=30	Pass			
		13	22.43	-0.31	22.12	<=30	Pass			
	25	0	22.31	-0.31	22.00	<=30	Pass			
	1	0	22.83	-0.31	22.52	<=30	Pass			
		13	22.89	-0.31	22.58	<=30	Pass			
		24	22.72	-0.31	22.41	<=30	Pass			
		12	0	22.06	-0.31	21.75	<=30	Pass		
			6	22.07	-0.31	21.76	<=30	Pass		
13			21.99	-0.31	21.68	<=30	Pass			
25	0	22.04	-0.31	21.73	<=30	Pass				
Note1: EIRP=Conducted Power+Antenna Gain										

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.95	-0.31	22.64	<=30	Pass
			25	23.56	-0.31	23.25	<=30	Pass
			49	23.76	-0.31	23.45	<=30	Pass
		25	0	22.17	-0.31	21.86	<=30	Pass
			13	22.41	-0.31	22.10	<=30	Pass
			25	22.68	-0.31	22.37	<=30	Pass
		50	0	22.46	-0.31	22.15	<=30	Pass
	1732.5	1	0	24.10	-0.31	23.79	<=30	Pass
			25	24.38	-0.31	24.07	<=30	Pass

			49	24.23	-0.31	23.92	<=30	Pass
		25	0	23.21	-0.31	22.90	<=30	Pass
			13	23.35	-0.31	23.04	<=30	Pass
			25	23.40	-0.31	23.09	<=30	Pass
		50	0	23.34	-0.31	23.03	<=30	Pass
	1750	1	0	24.10	-0.31	23.79	<=30	Pass
			25	24.15	-0.31	23.84	<=30	Pass
			49	23.84	-0.31	23.53	<=30	Pass
		25	0	23.23	-0.31	22.92	<=30	Pass
			13	23.11	-0.31	22.80	<=30	Pass
			25	23.02	-0.31	22.71	<=30	Pass
		50	0	23.13	-0.31	22.82	<=30	Pass
16QAM	1715	1	0	21.82	-0.31	21.51	<=30	Pass
			25	22.52	-0.31	22.21	<=30	Pass
			49	22.78	-0.31	22.47	<=30	Pass
		25	0	21.23	-0.31	20.92	<=30	Pass
			13	21.51	-0.31	21.20	<=30	Pass
			25	21.75	-0.31	21.44	<=30	Pass
	50	0	21.44	-0.31	21.13	<=30	Pass	
	1732.5	1	0	23.34	-0.31	23.03	<=30	Pass
			25	23.56	-0.31	23.25	<=30	Pass
			49	23.42	-0.31	23.11	<=30	Pass
		25	0	22.25	-0.31	21.94	<=30	Pass
			13	22.37	-0.31	22.06	<=30	Pass
			25	22.41	-0.31	22.10	<=30	Pass
	50	0	22.33	-0.31	22.02	<=30	Pass	
	1750	1	0	23.63	-0.31	23.32	<=30	Pass
			25	23.74	-0.31	23.43	<=30	Pass
			49	23.51	-0.31	23.20	<=30	Pass
		25	0	22.27	-0.31	21.96	<=30	Pass
			13	22.17	-0.31	21.86	<=30	Pass
			25	22.06	-0.31	21.75	<=30	Pass
		50	0	22.15	-0.31	21.84	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.87	-0.31	22.56	<=30	Pass
			38	23.64	-0.31	23.33	<=30	Pass
			74	23.93	-0.31	23.62	<=30	Pass
		36	0	22.37	-0.31	22.06	<=30	Pass
			18	22.66	-0.31	22.35	<=30	Pass
			39	22.96	-0.31	22.65	<=30	Pass
		75	0	22.75	-0.31	22.44	<=30	Pass
	1732.5	1	0	23.95	-0.31	23.64	<=30	Pass
			38	24.20	-0.31	23.89	<=30	Pass
			74	24.08	-0.31	23.77	<=30	Pass
		36	0	23.07	-0.31	22.76	<=30	Pass
			18	23.28	-0.31	22.97	<=30	Pass
			39	23.39	-0.31	23.08	<=30	Pass
		75	0	23.29	-0.31	22.98	<=30	Pass
	1747.5	1	0	24.11	-0.31	23.80	<=30	Pass

			38	24.07	-0.31	23.76	<=30	Pass		
			74	23.74	-0.31	23.43	<=30	Pass		
			36	0	23.31	-0.31	23.00	<=30	Pass	
		18		23.17	-0.31	22.86	<=30	Pass		
		39		23.02	-0.31	22.71	<=30	Pass		
		75		0	23.19	-0.31	22.88	<=30	Pass	
		16QAM	1717.5	1	0	22.02	-0.31	21.71	<=30	Pass
					38	23.00	-0.31	22.69	<=30	Pass
					74	23.36	-0.31	23.05	<=30	Pass
36	0			21.30	-0.31	20.99	<=30	Pass		
	18			21.63	-0.31	21.32	<=30	Pass		
	39			21.98	-0.31	21.67	<=30	Pass		
75	0			21.65	-0.31	21.34	<=30	Pass		
1732.5	1			0	23.15	-0.31	22.84	<=30	Pass	
				38	23.43	-0.31	23.12	<=30	Pass	
			74	23.24	-0.31	22.93	<=30	Pass		
	36		0	22.10	-0.31	21.79	<=30	Pass		
			18	22.32	-0.31	22.01	<=30	Pass		
			39	22.32	-0.31	22.01	<=30	Pass		
	75		0	22.30	-0.31	21.99	<=30	Pass		
	1747.5		1	0	23.62	-0.31	23.31	<=30	Pass	
				38	23.60	-0.31	23.29	<=30	Pass	
74				23.39	-0.31	23.08	<=30	Pass		
36			0	22.33	-0.31	22.02	<=30	Pass		
		18	22.19	-0.31	21.88	<=30	Pass			
		39	22.05	-0.31	21.74	<=30	Pass			
75		0	22.14	-0.31	21.83	<=30	Pass			
Note1: EIRP=Conducted Power+Antenna Gain										

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.67	-0.31	22.36	<=30	Pass
			50	23.93	-0.31	23.62	<=30	Pass
			99	23.91	-0.31	23.60	<=30	Pass
		50	0	22.40	-0.31	22.09	<=30	Pass
			25	22.85	-0.31	22.54	<=30	Pass
			50	23.26	-0.31	22.95	<=30	Pass
		100	0	22.89	-0.31	22.58	<=30	Pass
	1732.5	1	0	23.71	-0.31	23.40	<=30	Pass
			50	24.33	-0.31	24.02	<=30	Pass
			99	23.96	-0.31	23.65	<=30	Pass
		50	0	22.96	-0.31	22.65	<=30	Pass
			25	23.25	-0.31	22.94	<=30	Pass
			50	23.29	-0.31	22.98	<=30	Pass
		100	0	23.22	-0.31	22.91	<=30	Pass
	1745	1	0	23.96	-0.31	23.65	<=30	Pass
			50	24.26	-0.31	23.95	<=30	Pass
			99	23.61	-0.31	23.30	<=30	Pass
		50	0	23.25	-0.31	22.94	<=30	Pass
			25	23.16	-0.31	22.85	<=30	Pass
			50	22.99	-0.31	22.68	<=30	Pass
		100	0	23.12	-0.31	22.81	<=30	Pass

16QAM	1720	1	0	22.08	-0.31	21.77	<=30	Pass
			50	23.47	-0.31	23.16	<=30	Pass
			99	23.54	-0.31	23.23	<=30	Pass
		50	0	21.36	-0.31	21.05	<=30	Pass
			25	21.83	-0.31	21.52	<=30	Pass
			50	22.29	-0.31	21.98	<=30	Pass
		100	0	21.92	-0.31	21.61	<=30	Pass
			0	22.94	-0.31	22.63	<=30	Pass
			50	23.56	-0.31	23.25	<=30	Pass
	1732.5	1	99	23.14	-0.31	22.83	<=30	Pass
			0	21.98	-0.31	21.67	<=30	Pass
			25	22.24	-0.31	21.93	<=30	Pass
		50	50	22.36	-0.31	22.05	<=30	Pass
			0	22.22	-0.31	21.91	<=30	Pass
			0	23.28	-0.31	22.97	<=30	Pass
		100	50	23.52	-0.31	23.21	<=30	Pass
			99	22.97	-0.31	22.66	<=30	Pass
			0	22.23	-0.31	21.92	<=30	Pass
1745		50	25	22.20	-0.31	21.89	<=30	Pass
			50	21.99	-0.31	21.68	<=30	Pass
			0	22.14	-0.31	21.83	<=30	Pass
		100	0					

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B4_1.4MHz

2.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.27	-7.954	-0.0046	-2.5 to 2.5	Pass
					3.85	3.676	0.0021	-2.5 to 2.5	Pass
					4.43	-0.944	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-5.951	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-3.648	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-6.695	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-6.337	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-6.609	-0.0039	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-0.701	-0.0004	-2.5 to 2.5	Pass
					3.85	-6.824	-0.0039	-2.5 to 2.5	Pass
					4.43	-4.520	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-6.967	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-10.600	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				0	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.958	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-5.407	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-9.813	-0.0057	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-5.322	-0.0030	-2.5 to 2.5	Pass
					3.85	-3.061	-0.0017	-2.5 to 2.5	Pass

					4.43	-6.981	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-8.268	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-1.044	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-4.950	-0.0028	-2.5 to 2.5	Pass
				0	3.85	2.632	0.0015	-2.5 to 2.5	Pass
				10	3.85	-4.663	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-9.127	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-0.043	0.0000	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-4.334	-0.0025	-2.5 to 2.5	Pass
					3.85	-11.787	-0.0069	-2.5 to 2.5	Pass
					4.43	-5.393	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-6.166	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-9.513	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
	1732.5	6	0	40	3.85	-8.111	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-12.245	-0.0072	-2.5 to 2.5	Pass
				20	3.27	0.644	0.0004	-2.5 to 2.5	Pass
					3.85	-9.427	-0.0054	-2.5 to 2.5	Pass
					4.43	-4.520	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	1.459	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-10.142	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
	1754.3	6	0	10	3.85	-4.091	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				20	3.27	-4.292	-0.0024	-2.5 to 2.5	Pass
					3.85	-8.397	-0.0048	-2.5 to 2.5	Pass
					4.43	-9.685	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				0	3.85	-11.501	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-7.796	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-17.838	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-4.277	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-10.114	-0.0058	-2.5 to 2.5	Pass

2.2 B4_3MHz

2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	-11.044	-0.0065	-2.5 to 2.5	Pass
					3.85	-2.275	-0.0013	-2.5 to 2.5	Pass
					4.43	-9.813	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-17.595	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-14.634	-0.0086	-2.5 to 2.5	Pass
				-10	3.85	-8.340	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-12.131	-0.0071	-2.5 to 2.5	Pass

				10	3.85	-14.234	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-10.586	-0.0062	-2.5 to 2.5	Pass
				40	3.85	-12.817	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-10.386	-0.0061	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-0.243	-0.0001	-2.5 to 2.5	Pass
					3.85	-10.057	-0.0058	-2.5 to 2.5	Pass
					4.43	-11.516	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-13.561	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-7.281	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-3.920	-0.0023	-2.5 to 2.5	Pass
				10	3.85	-16.365	-0.0094	-2.5 to 2.5	Pass
				30	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				40	3.85	-8.869	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-6.866	-0.0040	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-7.052	-0.0040	-2.5 to 2.5	Pass
					3.85	-4.964	-0.0028	-2.5 to 2.5	Pass
					4.43	-4.950	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-14.834	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-5.779	-0.0033	-2.5 to 2.5	Pass
				0	3.85	-10.715	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-7.882	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-10.757	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-11.330	-0.0065	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-4.435	-0.0026	-2.5 to 2.5	Pass
					3.85	0.615	0.0004	-2.5 to 2.5	Pass
					4.43	-8.898	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-2.832	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.459	0.0009	-2.5 to 2.5	Pass
				0	3.85	4.063	0.0024	-2.5 to 2.5	Pass
				10	3.85	8.097	0.0047	-2.5 to 2.5	Pass
				30	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-8.225	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-6.852	-0.0040	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-2.203	-0.0013	-2.5 to 2.5	Pass
					3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
					4.43	-4.935	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-20.986	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-10.686	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-9.942	-0.0057	-2.5 to 2.5	Pass
				40	3.85	4.935	0.0028	-2.5 to 2.5	Pass
				50	3.85	-7.167	-0.0041	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-14.162	-0.0081	-2.5 to 2.5	Pass
					3.85	-9.527	-0.0054	-2.5 to 2.5	Pass
					4.43	-11.387	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-8.569	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-7.567	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-5.536	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-12.903	-0.0074	-2.5 to 2.5	Pass
				10	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				30	3.85	3.004	0.0017	-2.5 to 2.5	Pass
				40	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-1.760	-0.0010	-2.5 to 2.5	Pass

2.3 B4_5MHz

2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	-7.324	-0.0043	-2.5 to 2.5	Pass
					3.85	-5.965	-0.0035	-2.5 to 2.5	Pass
					4.43	-4.406	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-10.414	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-9.384	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-9.398	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-5.622	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-10.114	-0.0059	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-3.719	-0.0021	-2.5 to 2.5	Pass
					3.85	-8.883	-0.0051	-2.5 to 2.5	Pass
					4.43	-3.204	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-7.939	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-9.127	-0.0053	-2.5 to 2.5	Pass
				-10	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-1.974	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-13.189	-0.0075	-2.5 to 2.5	Pass
					3.85	-9.599	-0.0055	-2.5 to 2.5	Pass
					4.43	-4.449	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-9.456	-0.0054	-2.5 to 2.5	Pass
				0	3.85	-9.785	-0.0056	-2.5 to 2.5	Pass
				10	3.85	-7.839	-0.0045	-2.5 to 2.5	Pass
				30	3.85	3.648	0.0021	-2.5 to 2.5	Pass
				40	3.85	-4.420	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-3.762	-0.0021	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-10.800	-0.0063	-2.5 to 2.5	Pass
					3.85	22.774	0.0133	-2.5 to 2.5	Pass
					4.43	3.834	0.0022	-2.5 to 2.5	Pass
				-30	3.85	-11.086	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	6.480	0.0038	-2.5 to 2.5	Pass
				-10	3.85	1.216	0.0007	-2.5 to 2.5	Pass
				0	3.85	3.419	0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.875	-0.0017	-2.5 to 2.5	Pass
				30	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				40	3.85	-4.506	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-1.402	-0.0008	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-8.855	-0.0051	-2.5 to 2.5	Pass
					3.85	-2.890	-0.0017	-2.5 to 2.5	Pass
					4.43	-5.250	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	2.990	0.0017	-2.5 to 2.5	Pass
				-20	3.85	-4.921	-0.0028	-2.5 to 2.5	Pass

				-10	3.85	-11.001	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-1.245	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-7.324	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
	1752.5	25	0	50	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				20	3.27	2.875	0.0016	-2.5 to 2.5	Pass
					3.85	-9.584	-0.0055	-2.5 to 2.5	Pass
					4.43	-13.204	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-7.582	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-4.420	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-11.630	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-8.268	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-11.673	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass

2.4 B4_10MHz

2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	-10.042	-0.0059	-2.5 to 2.5	Pass
					3.85	-9.756	-0.0057	-2.5 to 2.5	Pass
					4.43	-6.180	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-8.039	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-4.978	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-10.271	-0.0060	-2.5 to 2.5	Pass
				10	3.85	0.501	0.0003	-2.5 to 2.5	Pass
				30	3.85	-7.625	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
	1732.5	50	0	50	3.85	-2.575	-0.0015	-2.5 to 2.5	Pass
				20	3.27	-6.151	-0.0036	-2.5 to 2.5	Pass
					3.85	-4.649	-0.0027	-2.5 to 2.5	Pass
					4.43	0.429	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.701	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.316	-0.0008	-2.5 to 2.5	Pass
				10	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				30	3.85	-6.981	-0.0040	-2.5 to 2.5	Pass
	1750	50	0	40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				20	3.27	-9.656	-0.0055	-2.5 to 2.5	Pass
					3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
					4.43	-4.292	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-6.738	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-7.868	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-8.497	-0.0049	-2.5 to 2.5	Pass
				10	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-7.339	-0.0042	-2.5 to 2.5	Pass

16QAM	1715	50	0	50	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
				20	3.27	-0.858	-0.0005	-2.5 to 2.5	Pass
					3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
					4.43	-11.959	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-9.570	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-7.238	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-6.037	-0.0035	-2.5 to 2.5	Pass
				30	3.85	0.401	0.0002	-2.5 to 2.5	Pass
	1732.5	50	0	40	3.85	-13.003	-0.0076	-2.5 to 2.5	Pass
				50	3.85	-12.889	-0.0075	-2.5 to 2.5	Pass
				20	3.27	-6.051	-0.0035	-2.5 to 2.5	Pass
					3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
					4.43	-3.247	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				-20	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-8.140	-0.0047	-2.5 to 2.5	Pass
				10	3.85	0.243	0.0001	-2.5 to 2.5	Pass
	1750	50	0	30	3.85	-9.813	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
				20	3.27	-11.315	-0.0065	-2.5 to 2.5	Pass
					3.85	-10.271	-0.0059	-2.5 to 2.5	Pass
					4.43	-4.950	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-8.626	-0.0049	-2.5 to 2.5	Pass
				-20	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-3.033	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-3.648	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-5.121	-0.0029	-2.5 to 2.5	Pass

2.5 B4_15MHz

2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	-5.622	-0.0033	-2.5 to 2.5	Pass
					3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
					4.43	-5.593	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-5.064	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-5.136	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-5.665	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-10.285	-0.0060	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-2.174	-0.0013	-2.5 to 2.5	Pass
					3.85	-4.563	-0.0026	-2.5 to 2.5	Pass
					4.43	7.238	0.0042	-2.5 to 2.5	Pass
				-30	3.85	6.037	0.0035	-2.5 to 2.5	Pass

				-20	3.85	-13.146	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-20.342	-0.0117	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-1.473	-0.0008	-2.5 to 2.5	Pass
					3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
					4.43	-3.104	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-1.130	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-7.668	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-6.108	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-5.493	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-4.549	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-5.093	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-2.503	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-8.039	-0.0046	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-1.044	-0.0006	-2.5 to 2.5	Pass
					3.85	-10.328	-0.0060	-2.5 to 2.5	Pass
					4.43	-4.334	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-4.406	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-7.124	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-10.428	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-8.383	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-6.280	-0.0037	-2.5 to 2.5	Pass
	1732.5	75	0	50	3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
				20	3.27	-3.219	-0.0019	-2.5 to 2.5	Pass
					3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
					4.43	-5.436	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-7.467	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-25.864	-0.0149	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-2.317	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-5.035	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-8.140	-0.0047	-2.5 to 2.5	Pass
	1747.5	75	0	40	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				20	3.27	-6.366	-0.0036	-2.5 to 2.5	Pass
					3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
					4.43	-4.692	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-9.828	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-7.939	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-8.812	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-5.322	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-9.699	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-6.924	-0.0040	-2.5 to 2.5	Pass

2.6 B4_20MHz

2.6.1 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	-5.393	-0.0031	-2.5 to 2.5	Pass
					3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
					4.43	-2.174	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-6.351	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-5.965	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-12.488	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-6.065	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-6.108	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-7.167	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-5.479	-0.0032	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-3.548	-0.0020	-2.5 to 2.5	Pass
					3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
					4.43	2.875	0.0017	-2.5 to 2.5	Pass
				-30	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-3.748	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.402	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-3.719	-0.0021	-2.5 to 2.5	Pass
					3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
					4.43	-2.003	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-6.595	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				40	3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-6.523	-0.0037	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-10.014	-0.0058	-2.5 to 2.5	Pass
					3.85	-6.194	-0.0036	-2.5 to 2.5	Pass
					4.43	-4.420	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-6.967	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-10.242	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-5.579	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-9.570	-0.0056	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-7.339	-0.0042	-2.5 to 2.5	Pass
					3.85	-3.161	-0.0018	-2.5 to 2.5	Pass
					4.43	-4.277	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-3.204	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				10	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				30	3.85	-6.151	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-7.825	-0.0045	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-4.263	-0.0024	-2.5 to 2.5	Pass
					3.85	-1.516	-0.0009	-2.5 to 2.5	Pass

					4.43	-6.409	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-7.496	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-9.956	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-3.219	-0.0018	-2.5 to 2.5	Pass
				30	3.85	3.190	0.0018	-2.5 to 2.5	Pass
				40	3.85	-6.609	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-2.904	-0.0017	-2.5 to 2.5	Pass

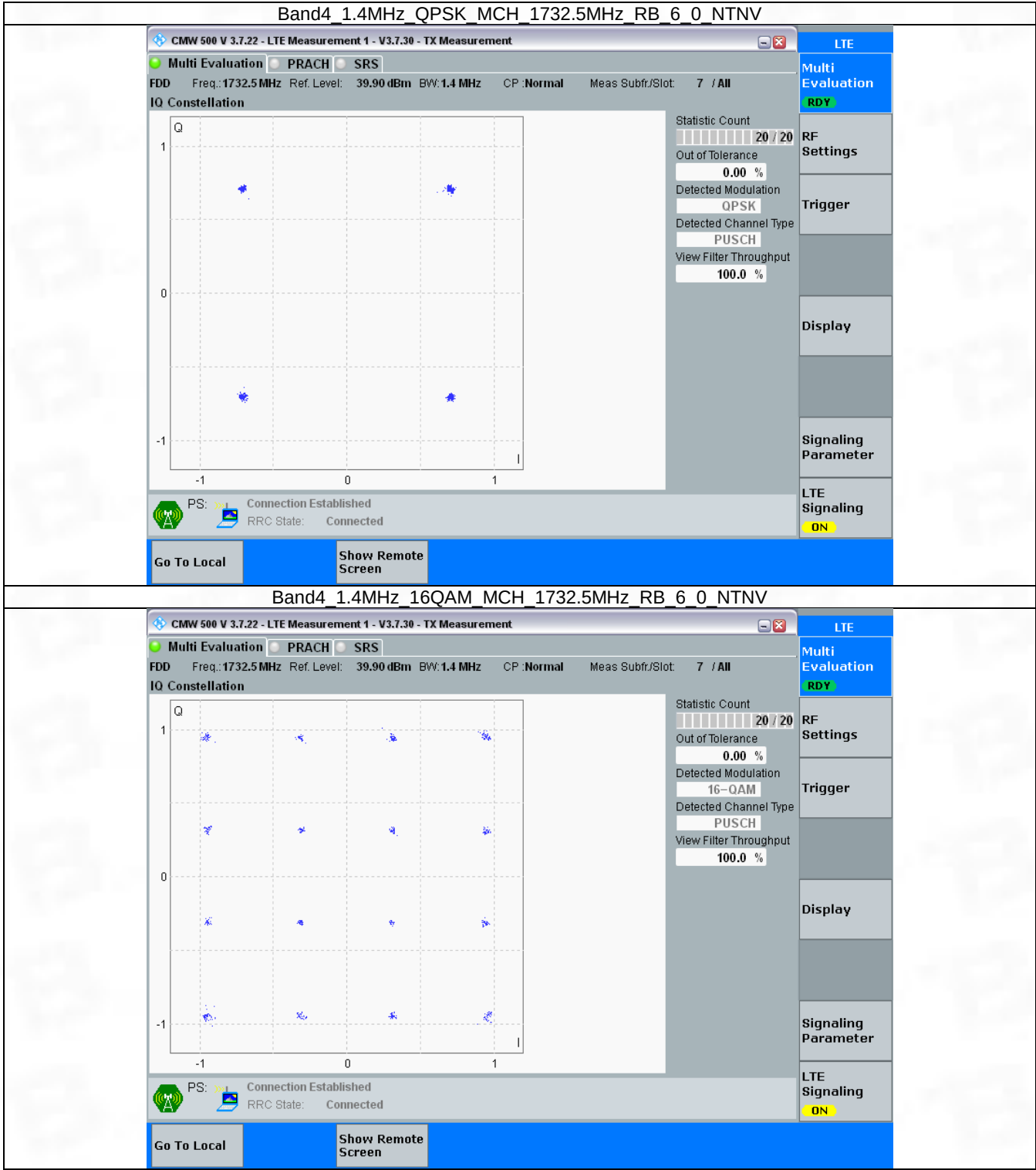
3. Modulation Characteristics

3.1 B4_1.4MHz

3.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph

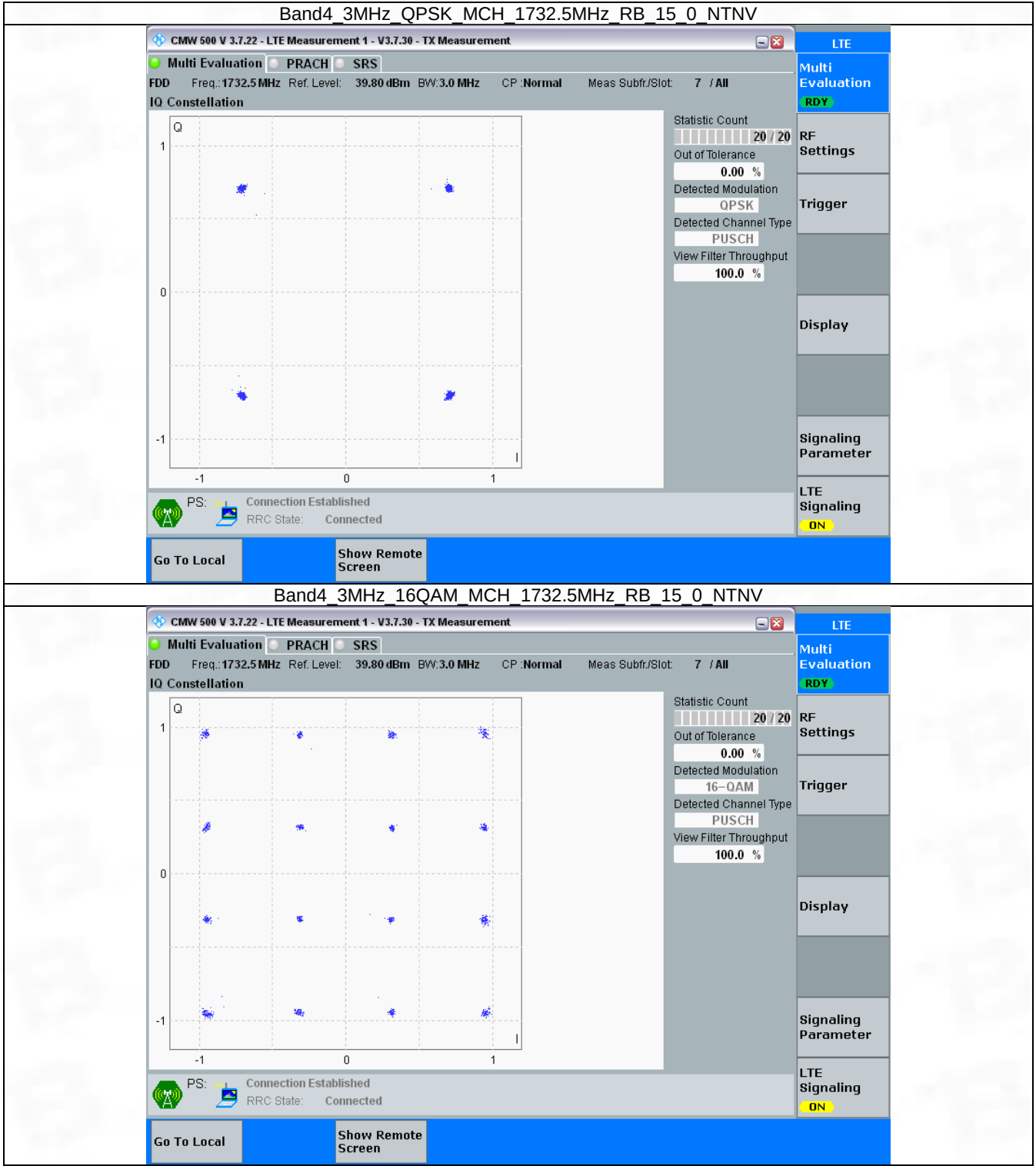


3.2 B4_3MHz

3.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

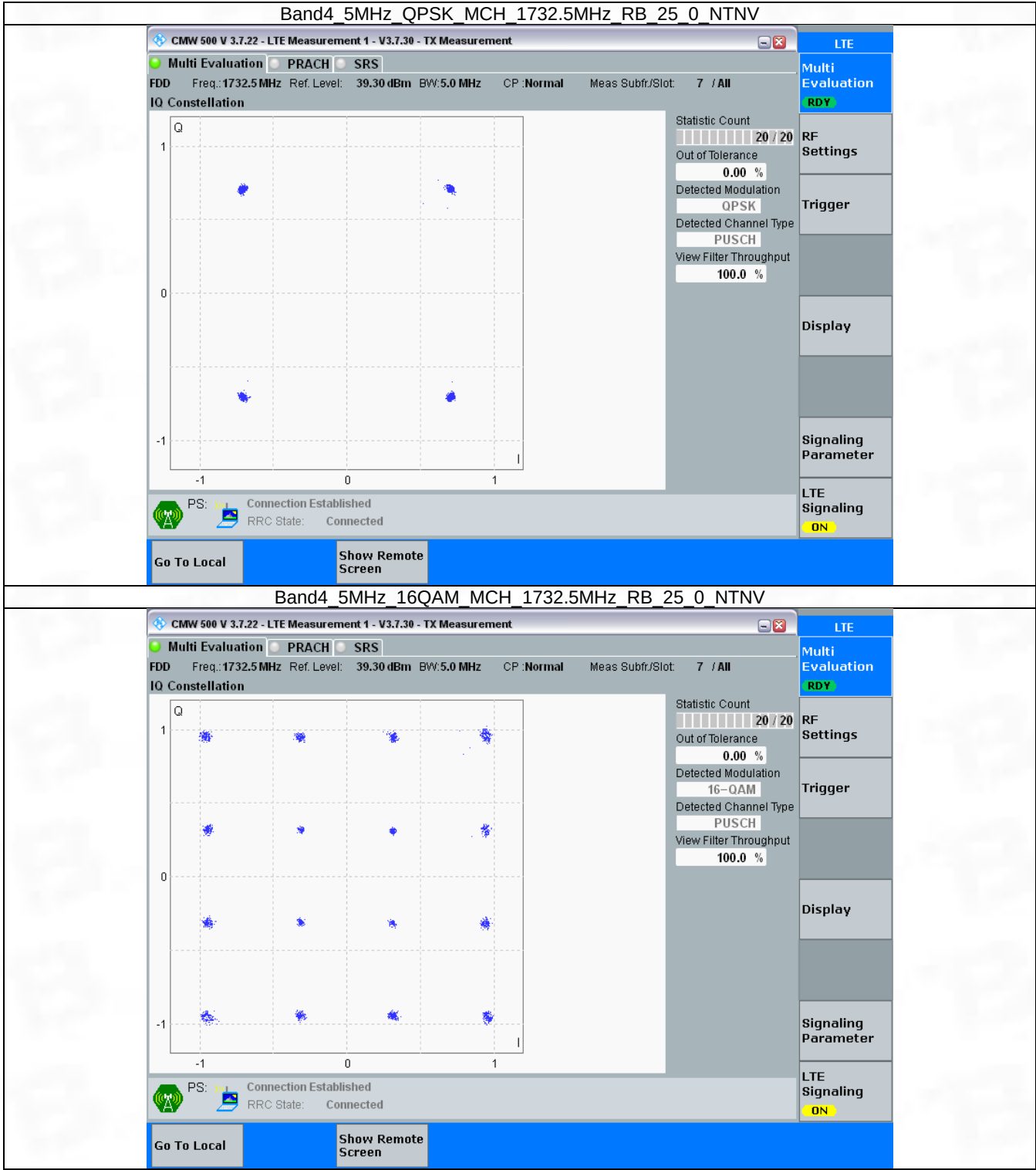


3.3 B4_5MHz

3.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

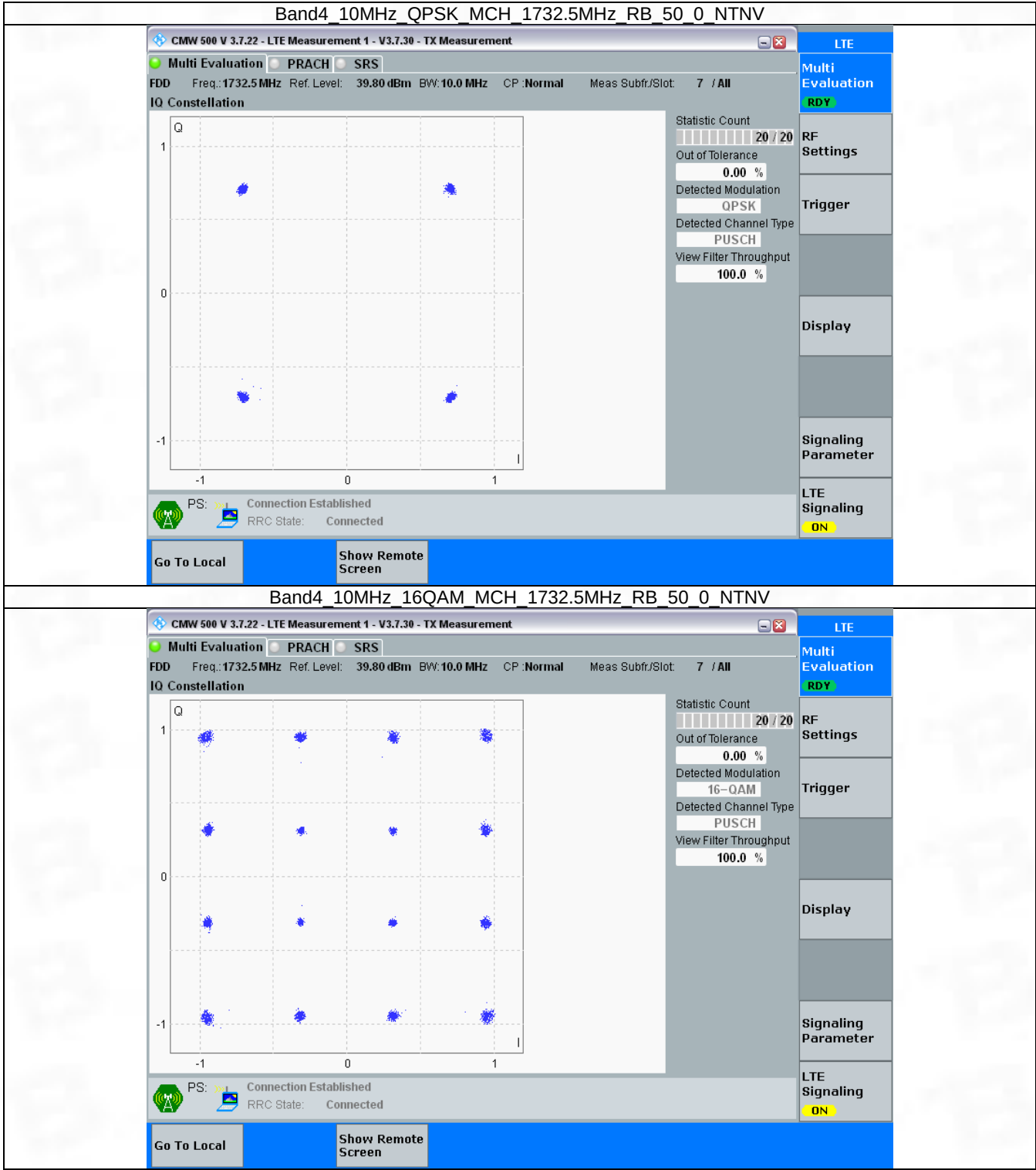


3.4 B4_10MHz

3.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

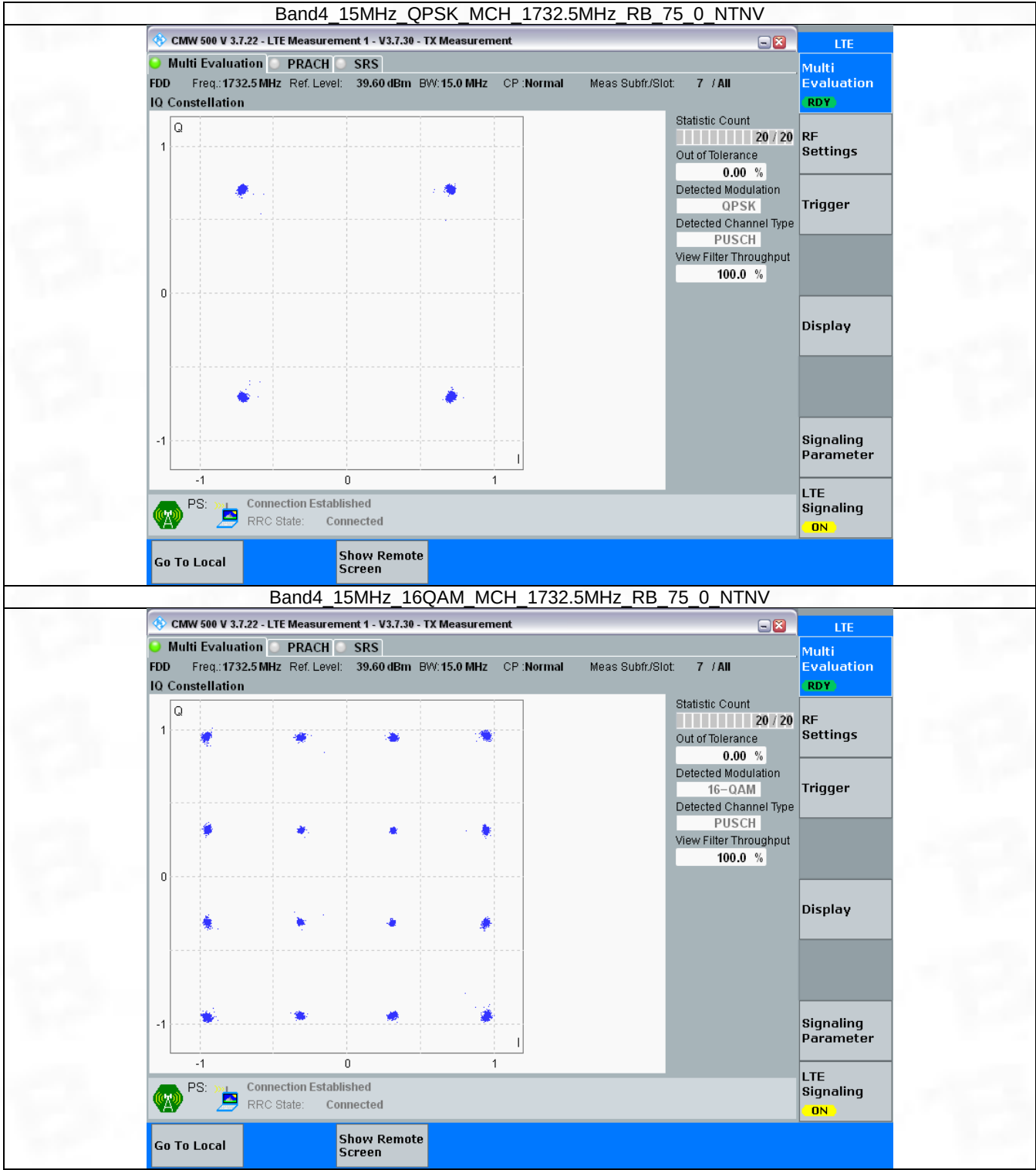


3.5 B4_15MHz

3.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.5.2 Test Graph

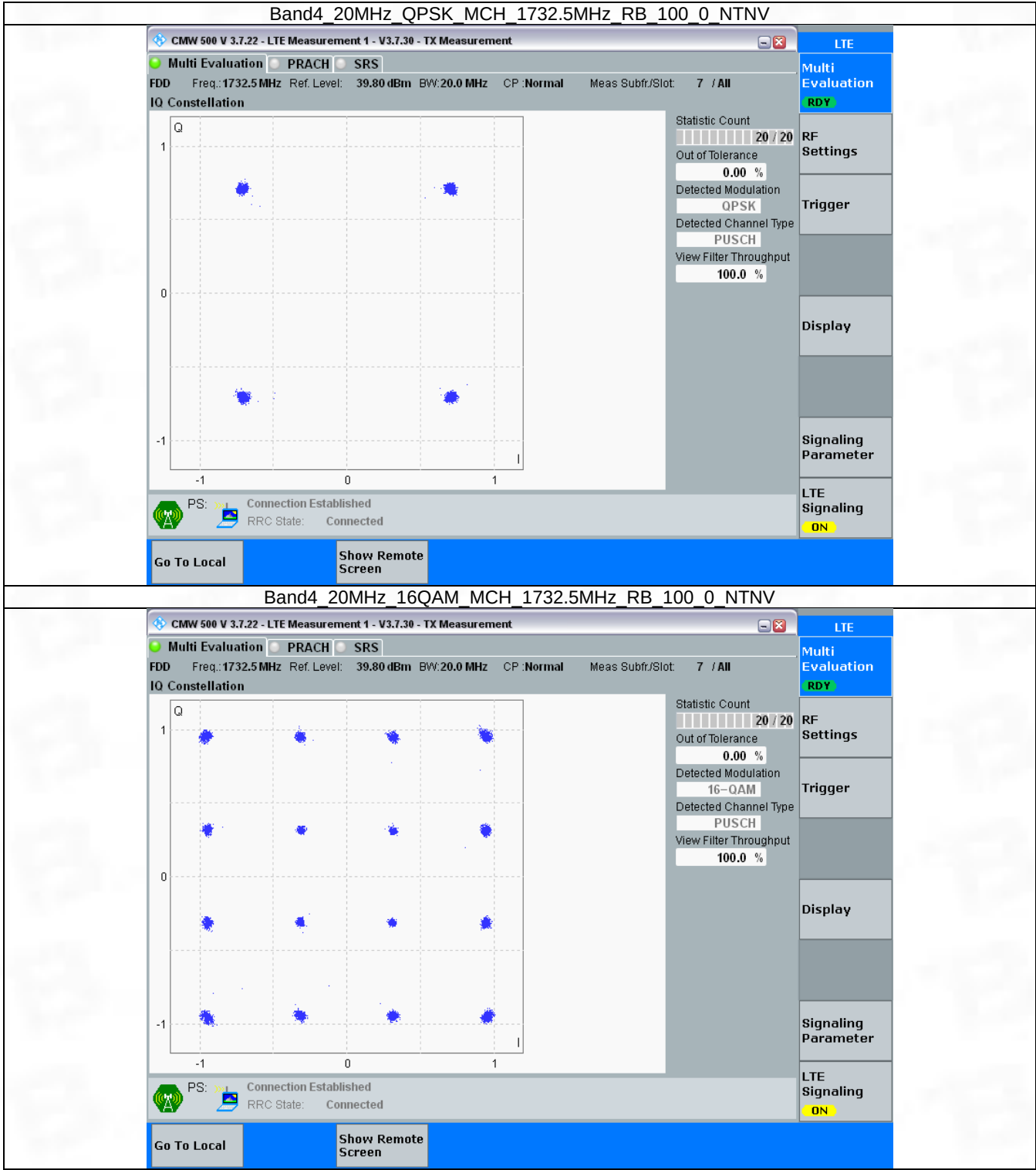


3.6 B4_20MHz

3.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.6.2 Test Graph



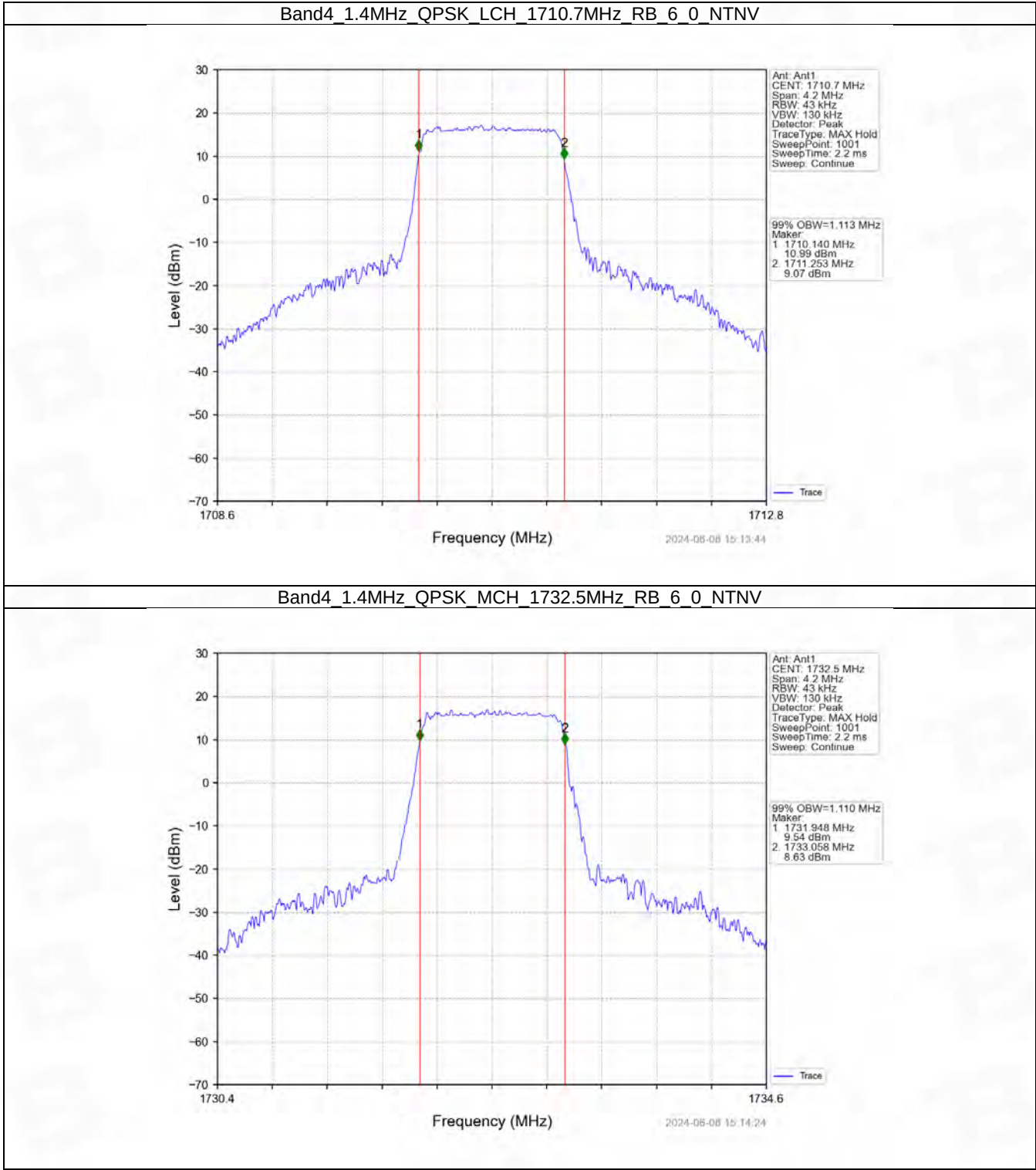
4. 99% & 26dB Bandwidth

4.1 Band4_OBW

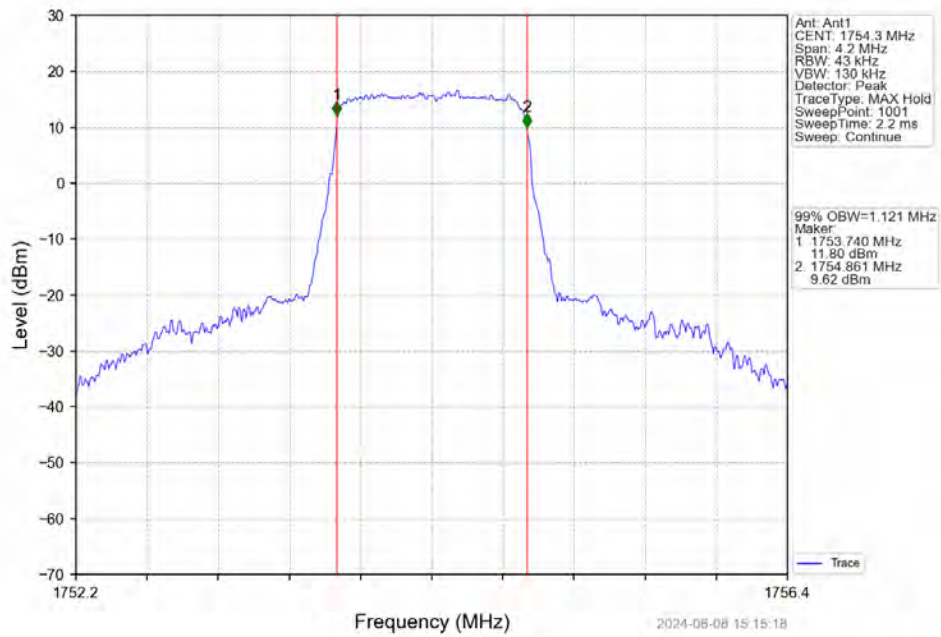
4.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.113	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.121	/	Pass
	16QAM	1710.7	6	0	1.125	/	Pass
		1732.5	6	0	1.105	/	Pass
		1754.3	6	0	1.108	/	Pass
3	QPSK	1711.5	15	0	2.737	/	Pass
		1732.5	15	0	2.727	/	Pass
		1753.5	15	0	2.732	/	Pass
	16QAM	1711.5	15	0	2.724	/	Pass
		1732.5	15	0	2.714	/	Pass
		1753.5	15	0	2.720	/	Pass
5	QPSK	1712.5	25	0	4.559	/	Pass
		1732.5	25	0	4.555	/	Pass
		1752.5	25	0	4.587	/	Pass
	16QAM	1712.5	25	0	4.580	/	Pass
		1732.5	25	0	4.585	/	Pass
		1752.5	25	0	4.568	/	Pass
10	QPSK	1715	50	0	9.098	/	Pass
		1732.5	50	0	9.052	/	Pass
		1750	50	0	9.094	/	Pass
	16QAM	1715	50	0	9.095	/	Pass
		1732.5	50	0	9.068	/	Pass
		1750	50	0	9.072	/	Pass
15	QPSK	1717.5	75	0	13.660	/	Pass
		1732.5	75	0	13.575	/	Pass
		1747.5	75	0	13.641	/	Pass
	16QAM	1717.5	75	0	13.647	/	Pass
		1732.5	75	0	13.595	/	Pass
		1747.5	75	0	13.631	/	Pass
20	QPSK	1720	100	0	18.200	/	Pass
		1732.5	100	0	18.101	/	Pass
		1745	100	0	18.112	/	Pass
	16QAM	1720	100	0	18.210	/	Pass
		1732.5	100	0	18.124	/	Pass
		1745	100	0	18.112	/	Pass

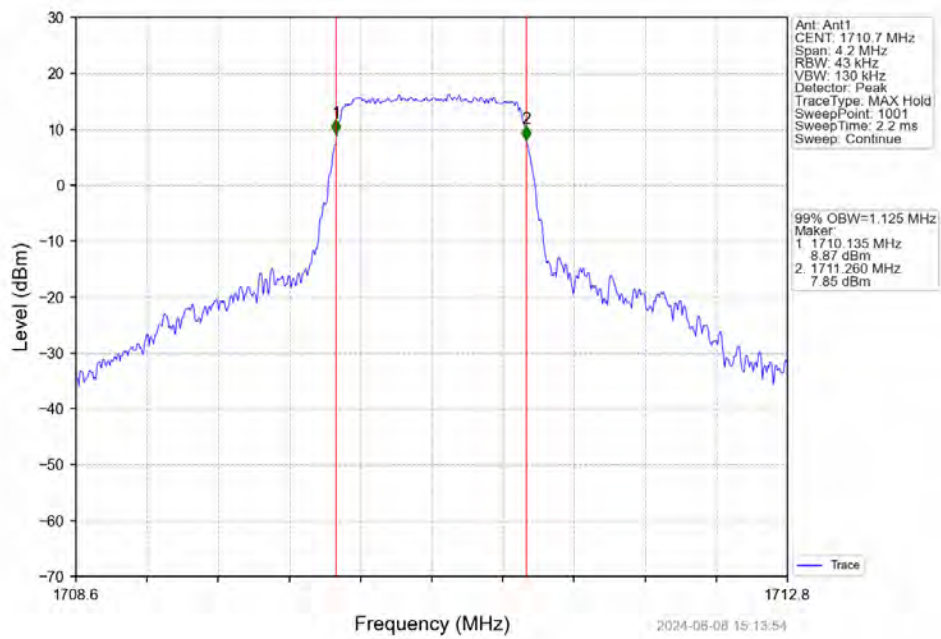
4.1.2 Test Graph



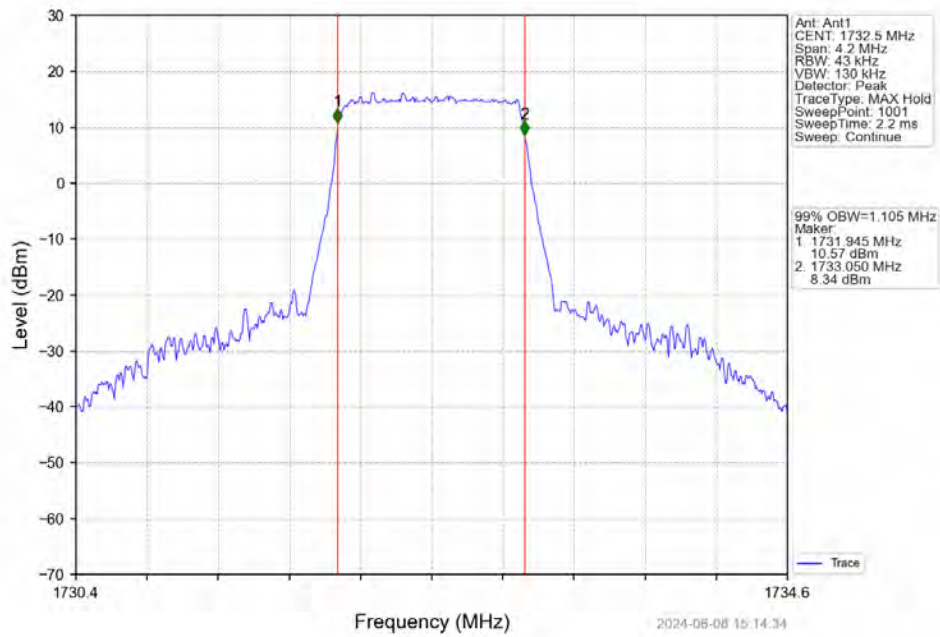
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



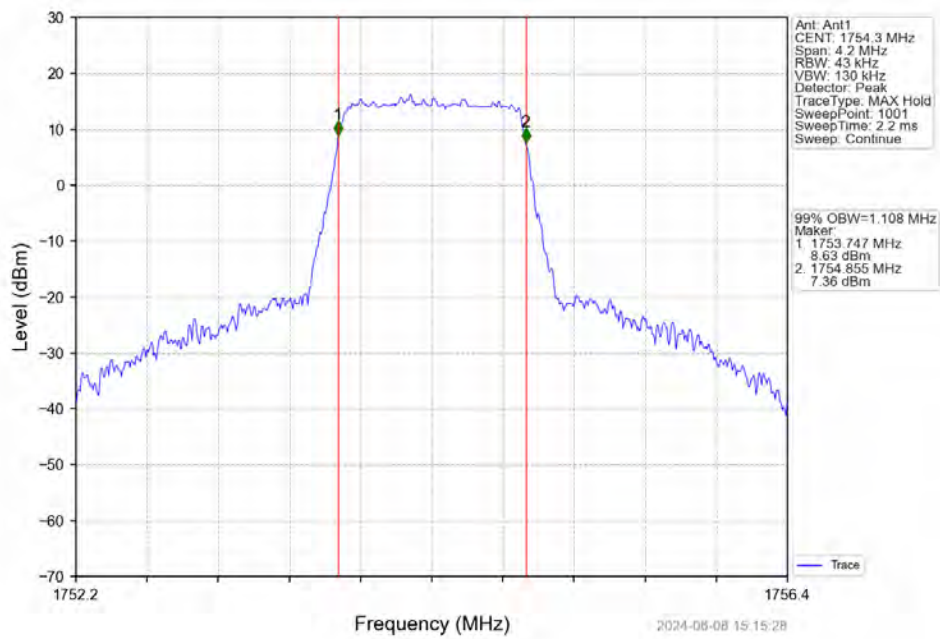
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



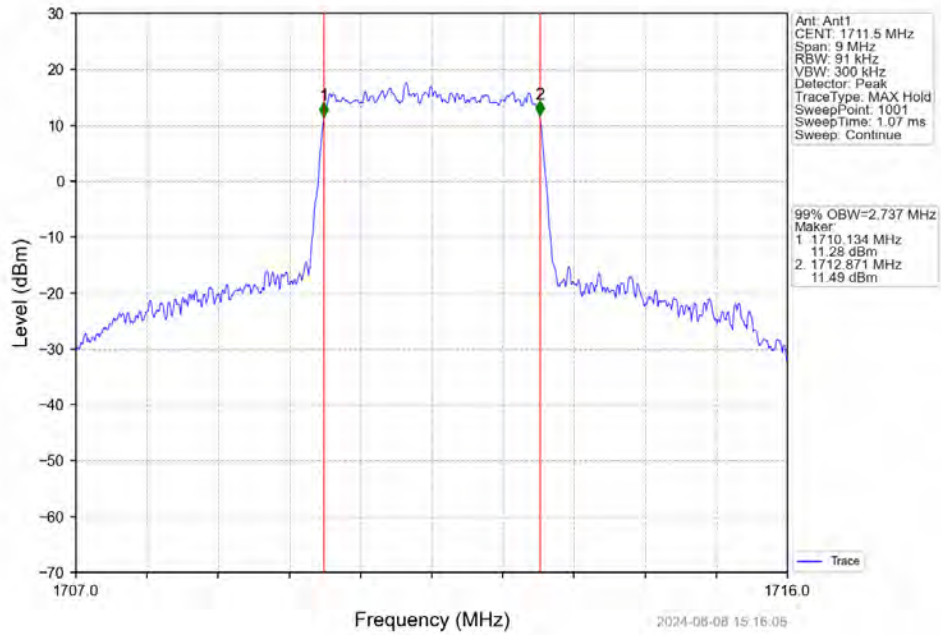
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



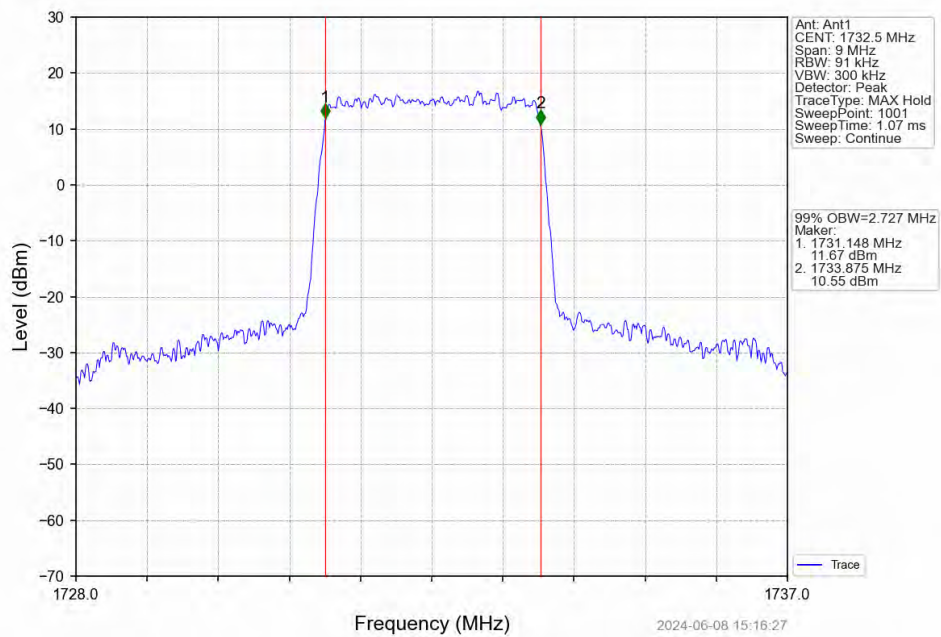
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



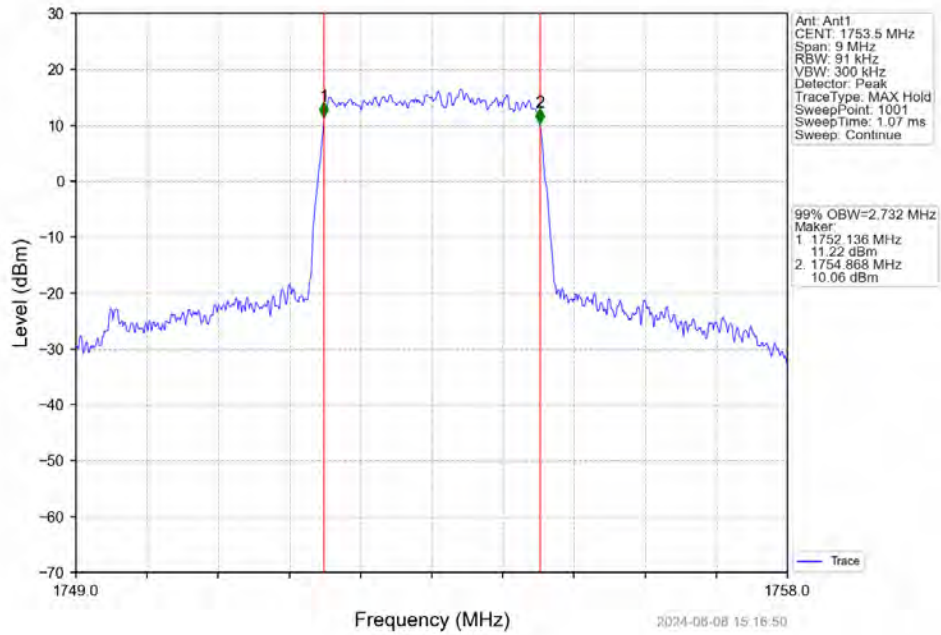
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



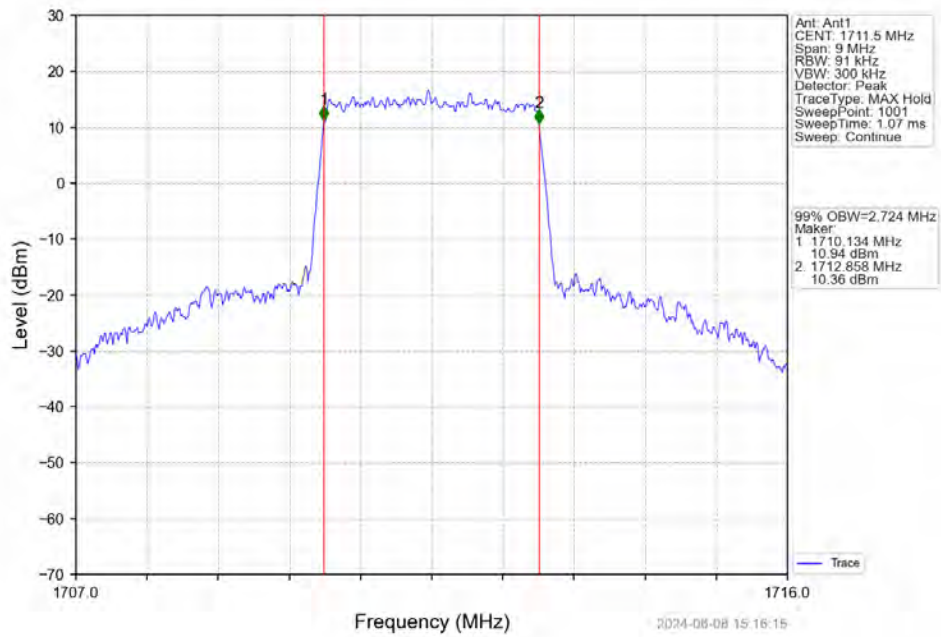
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTNV



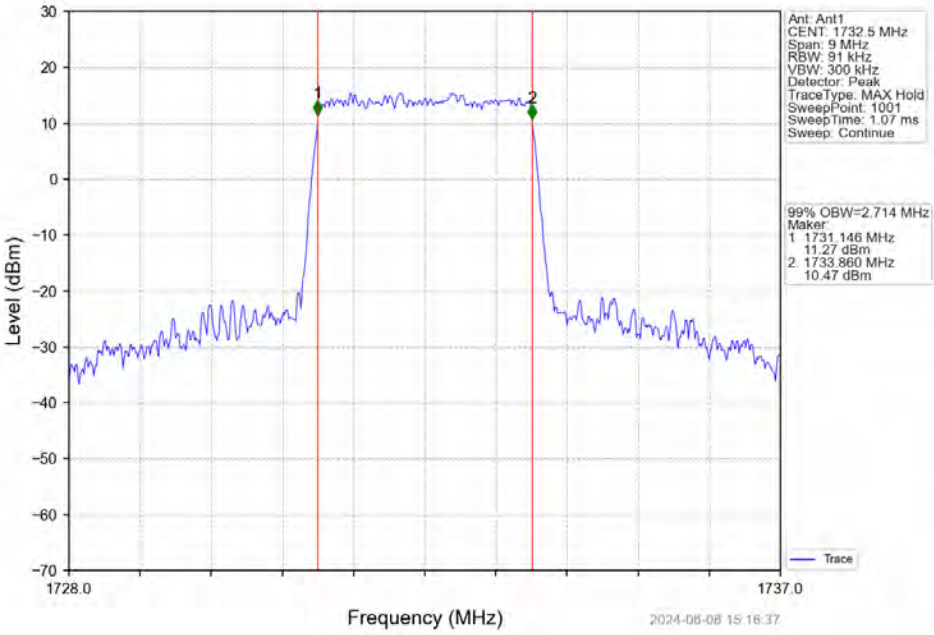
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



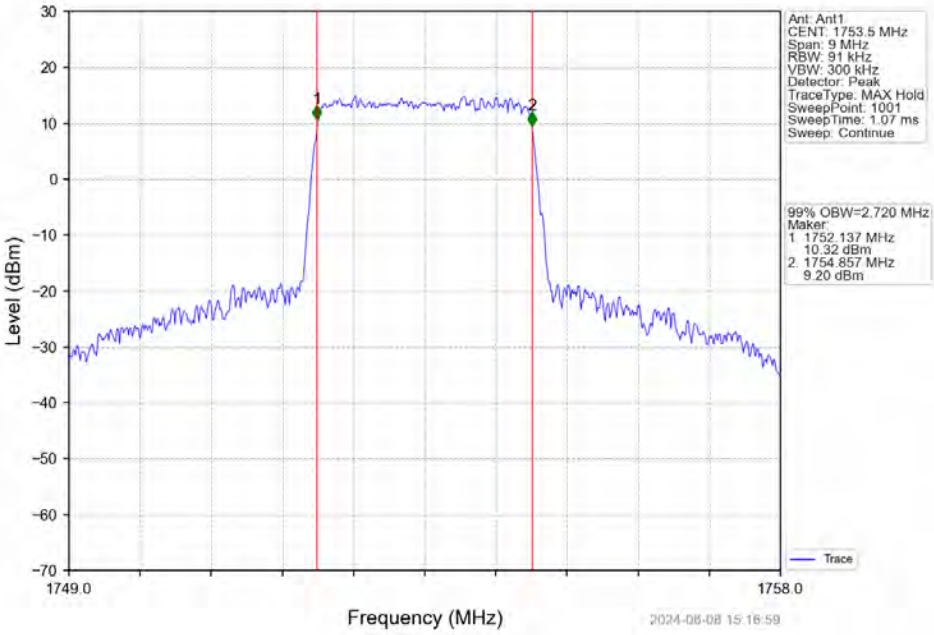
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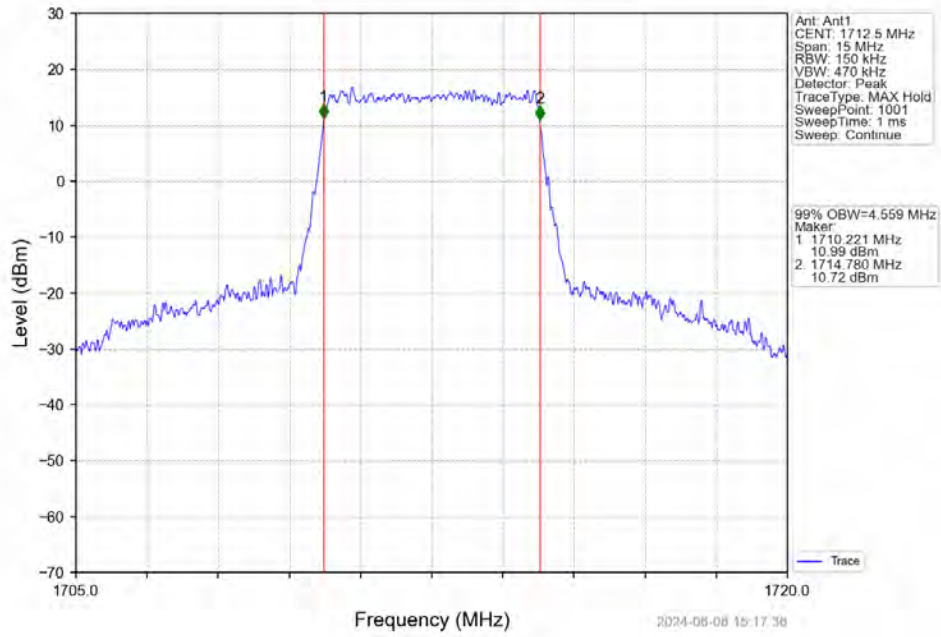
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



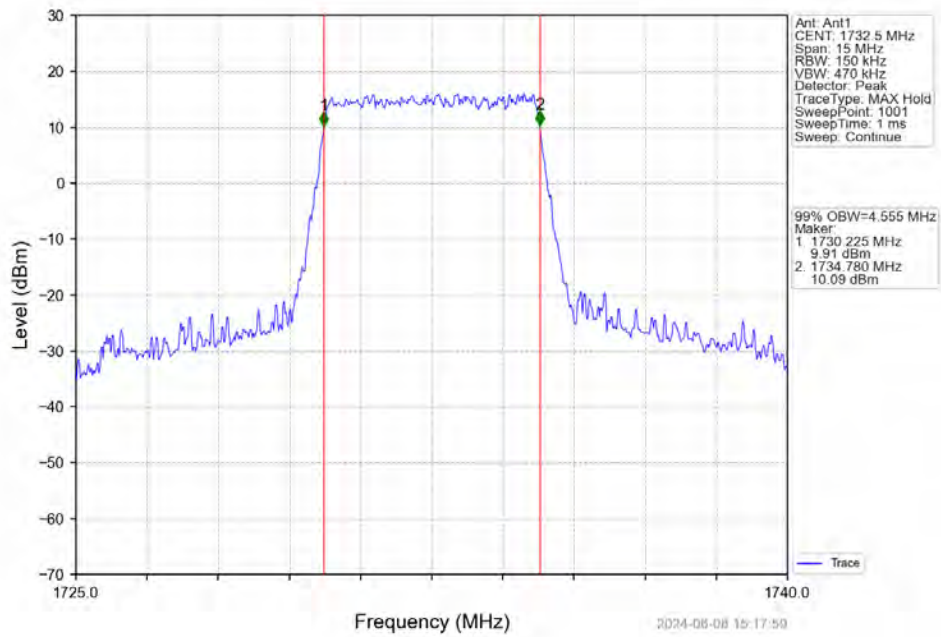
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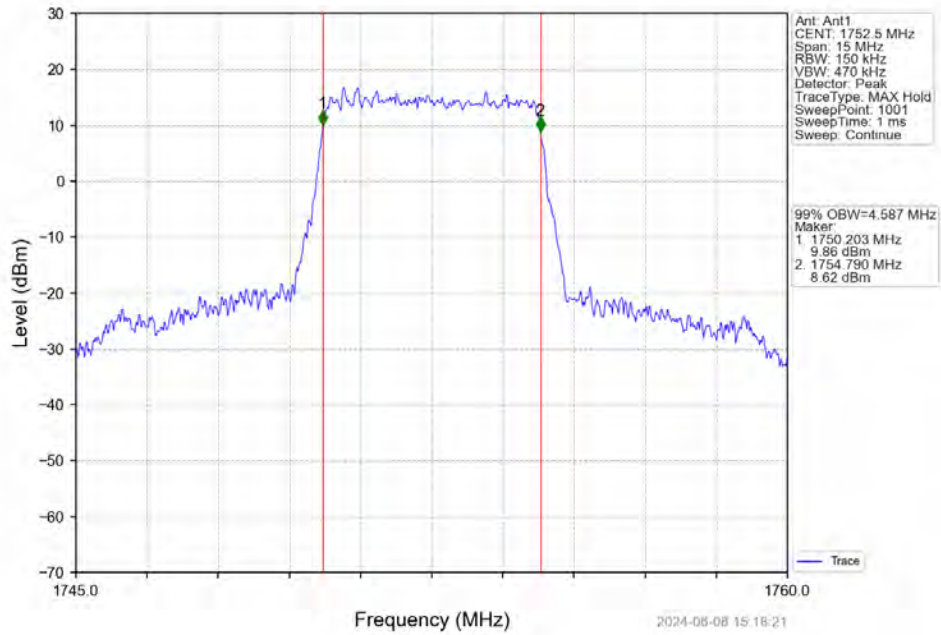
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



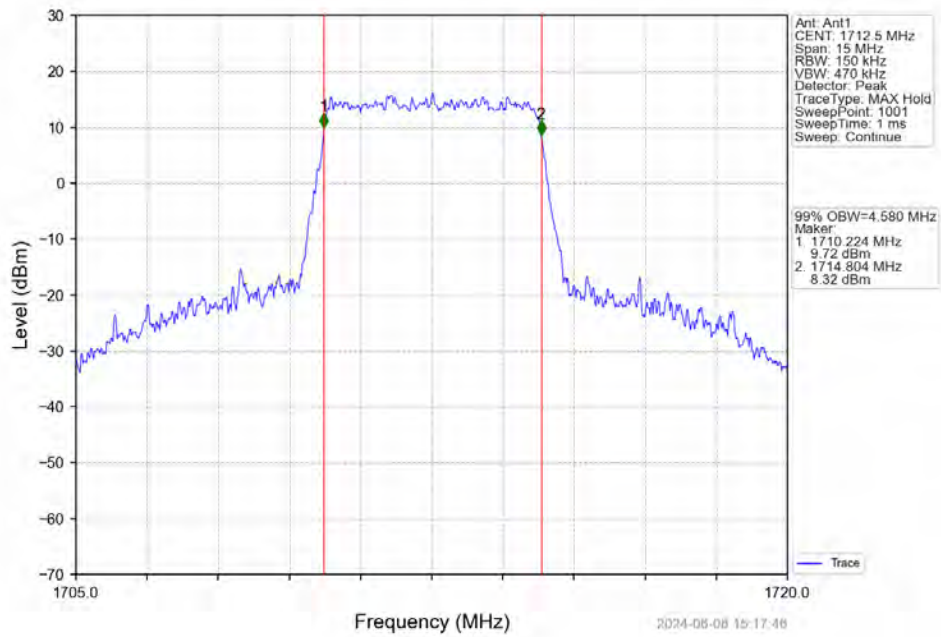
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



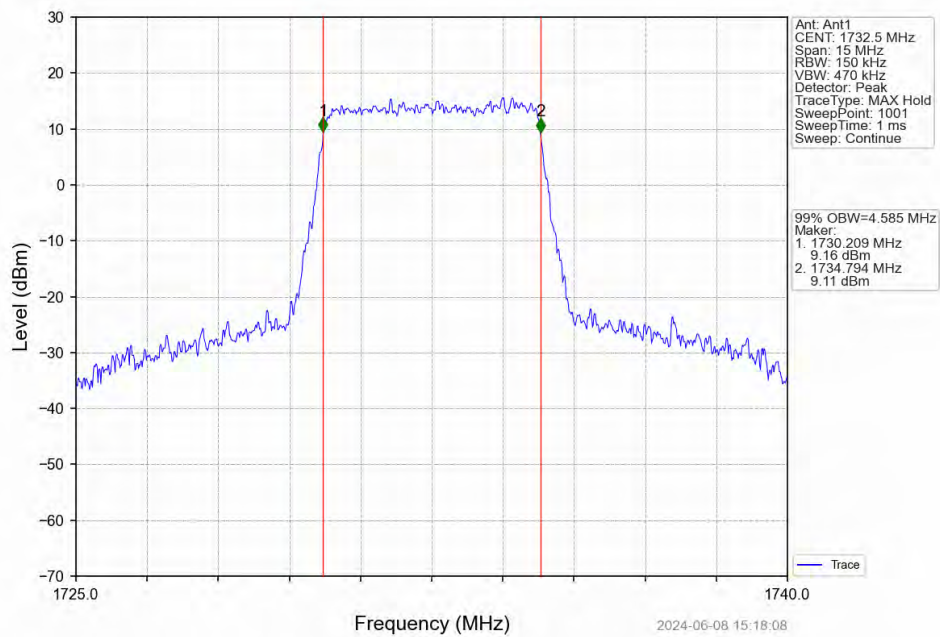
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTNV



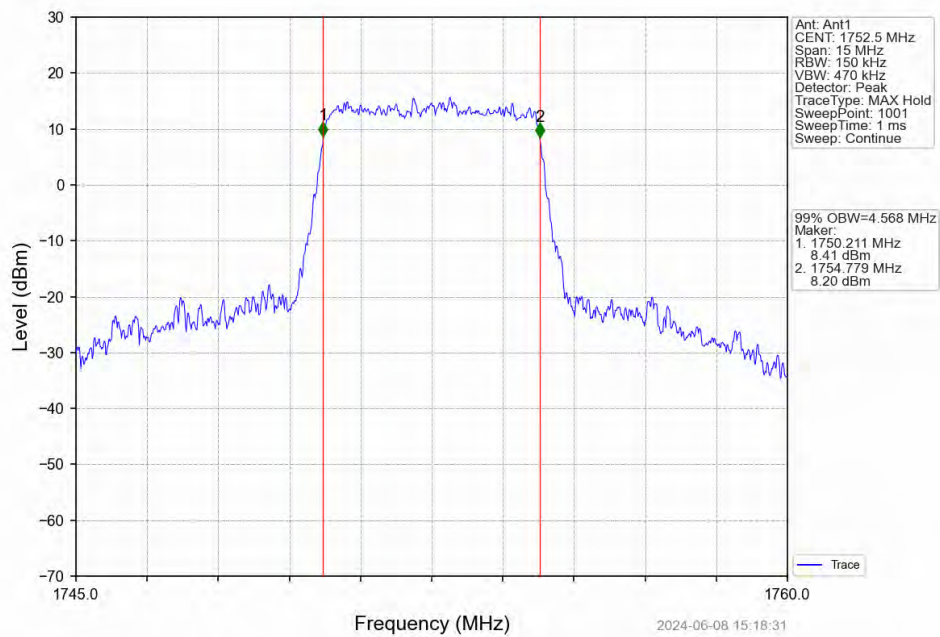
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTNV



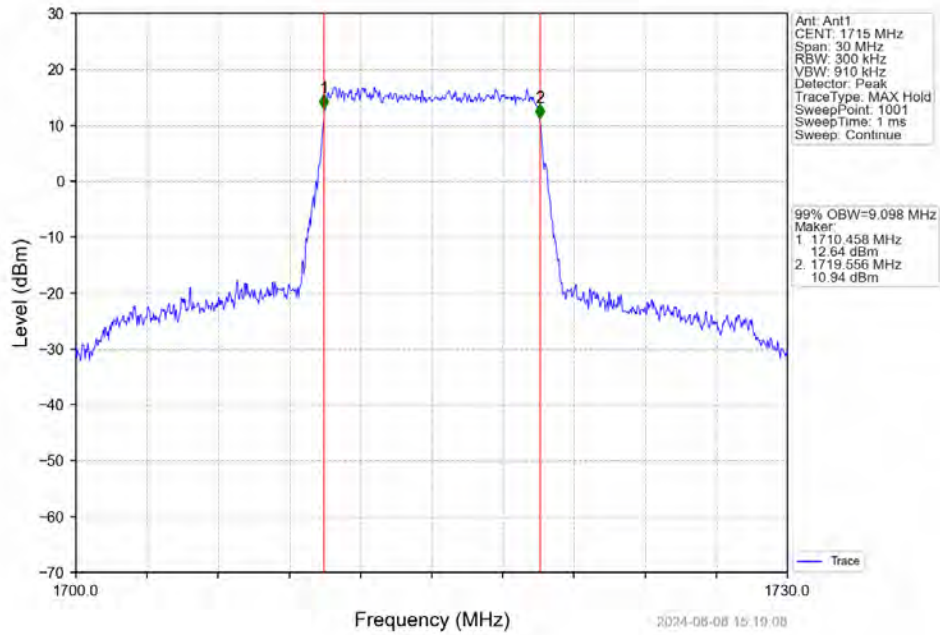
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



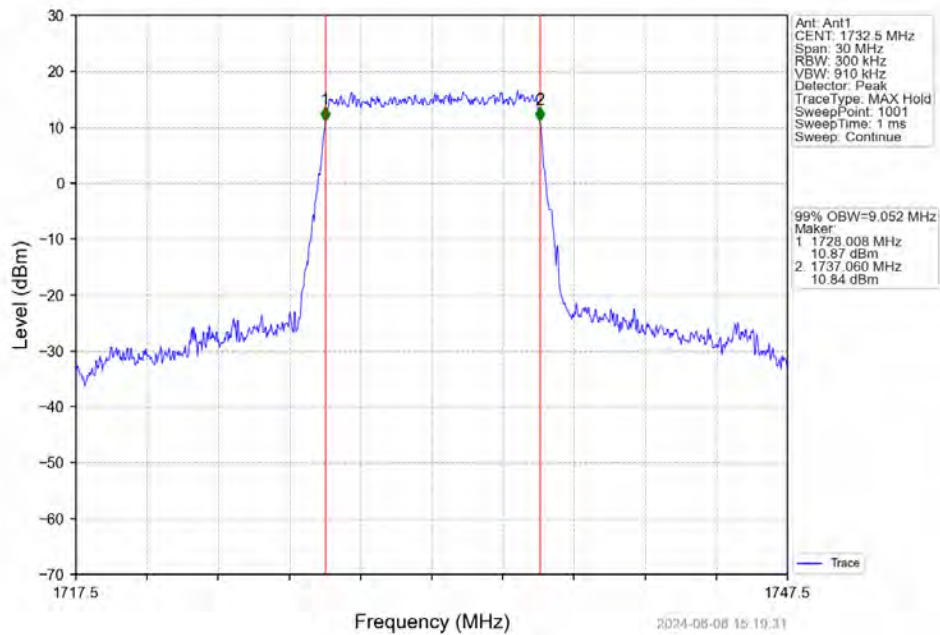
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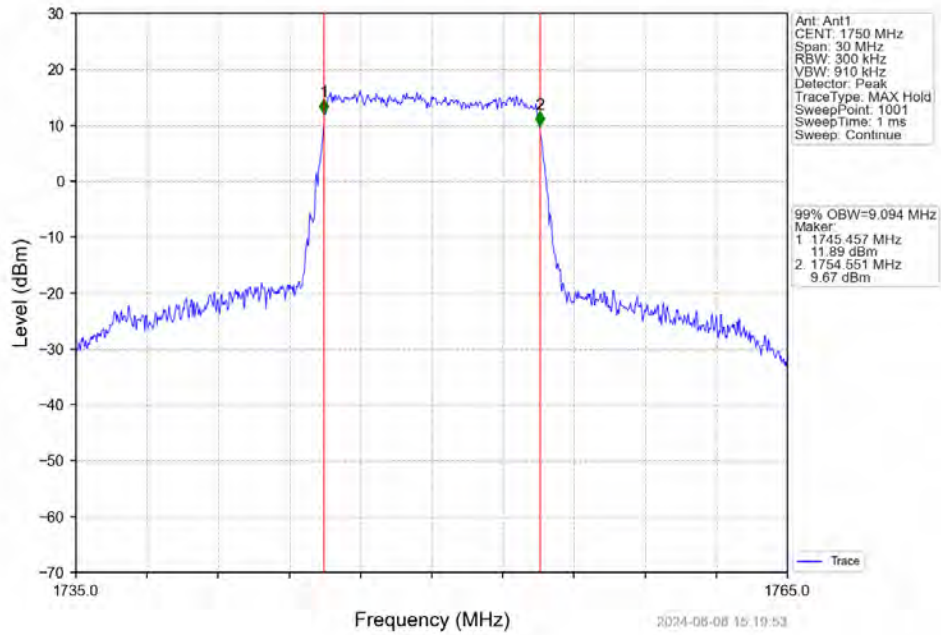
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



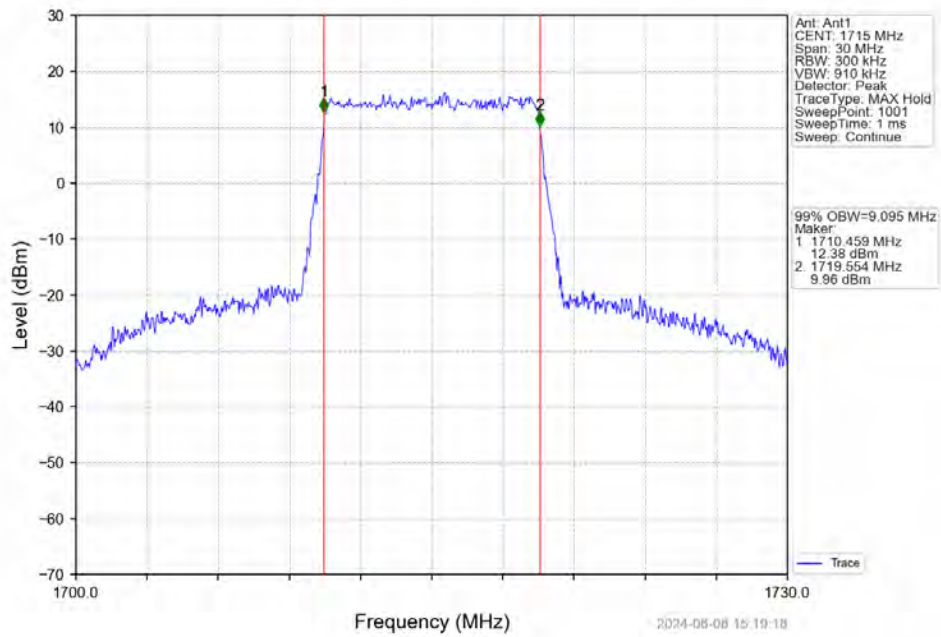
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTN



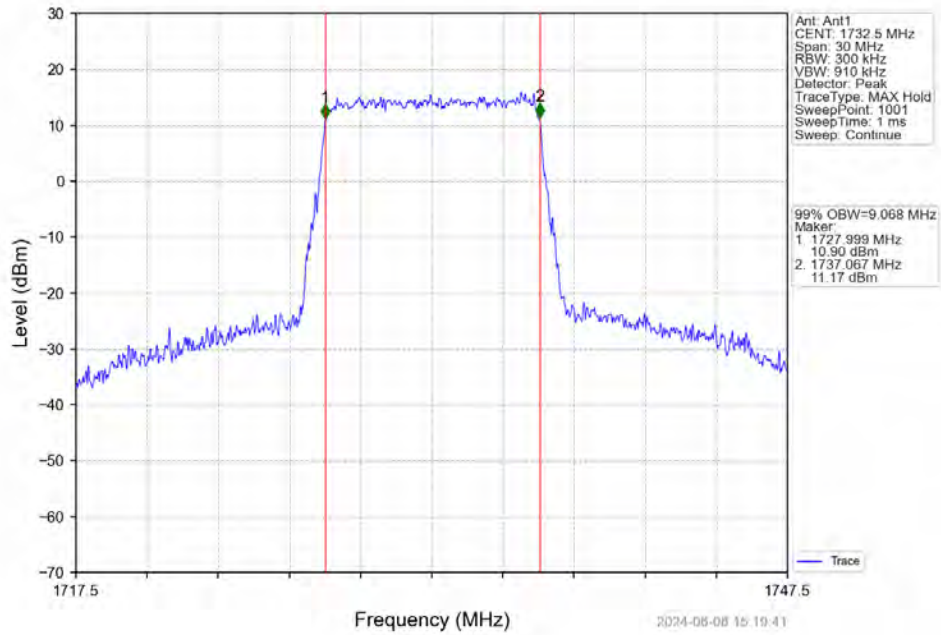
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



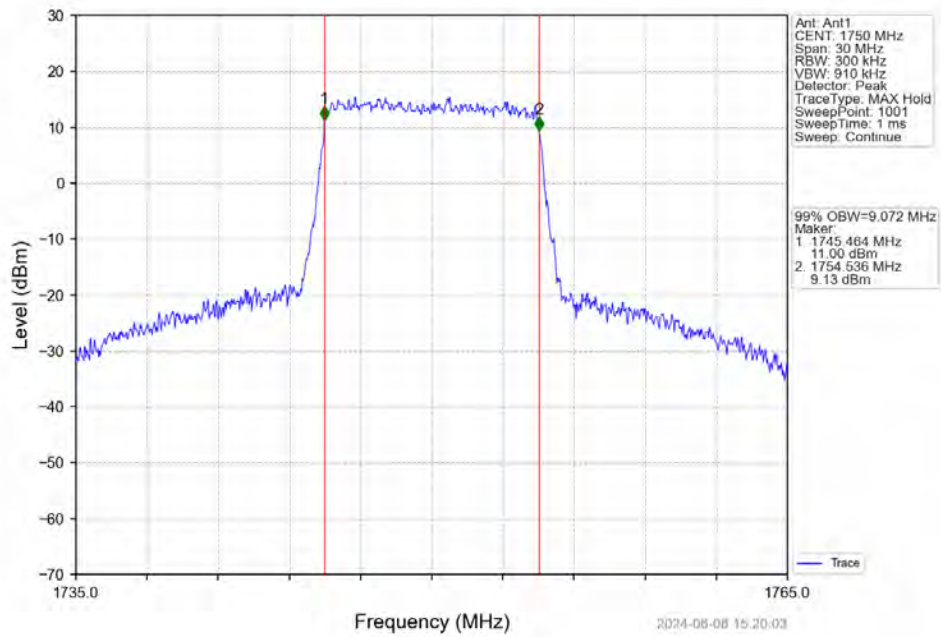
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



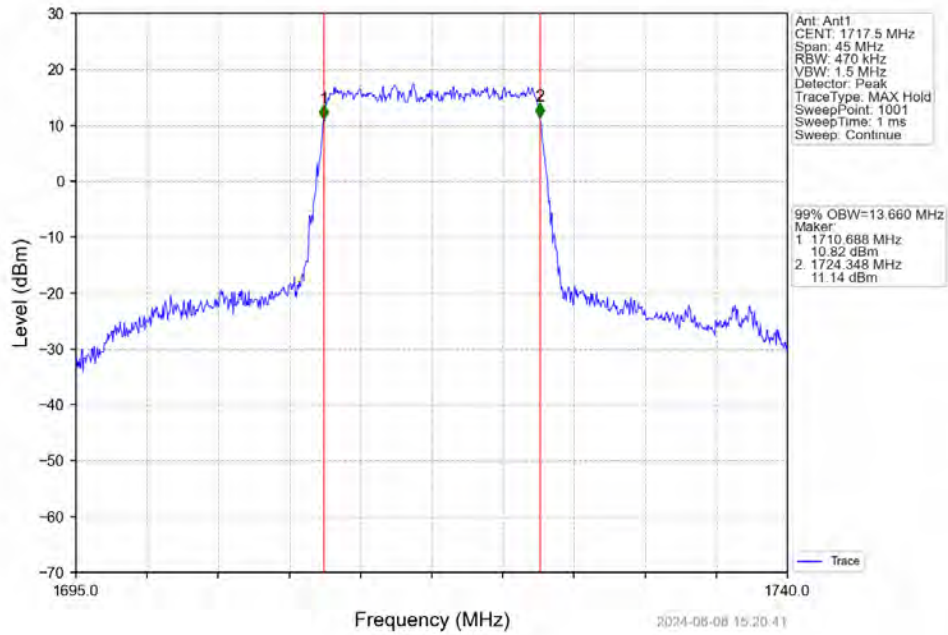
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



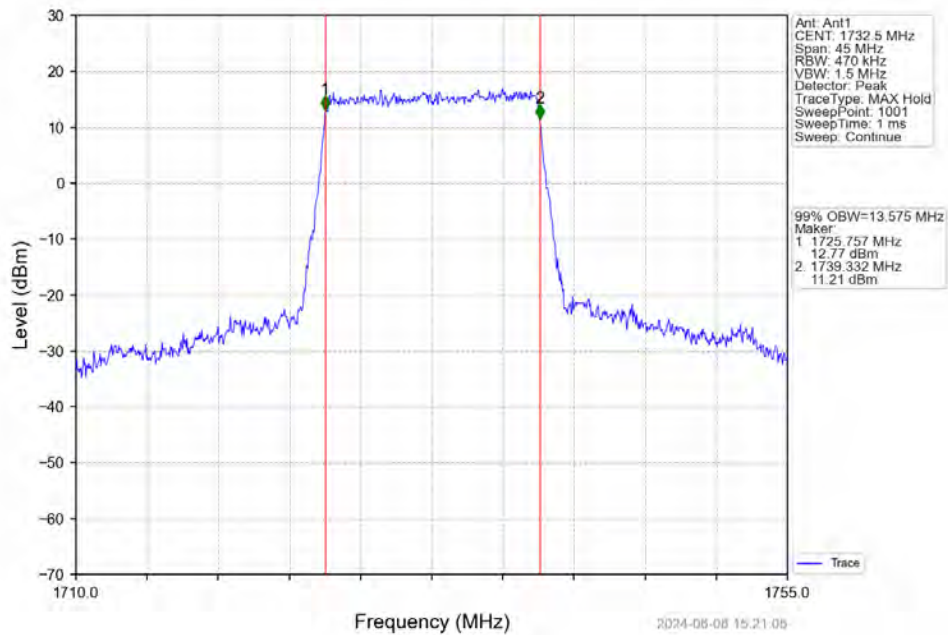
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTNV



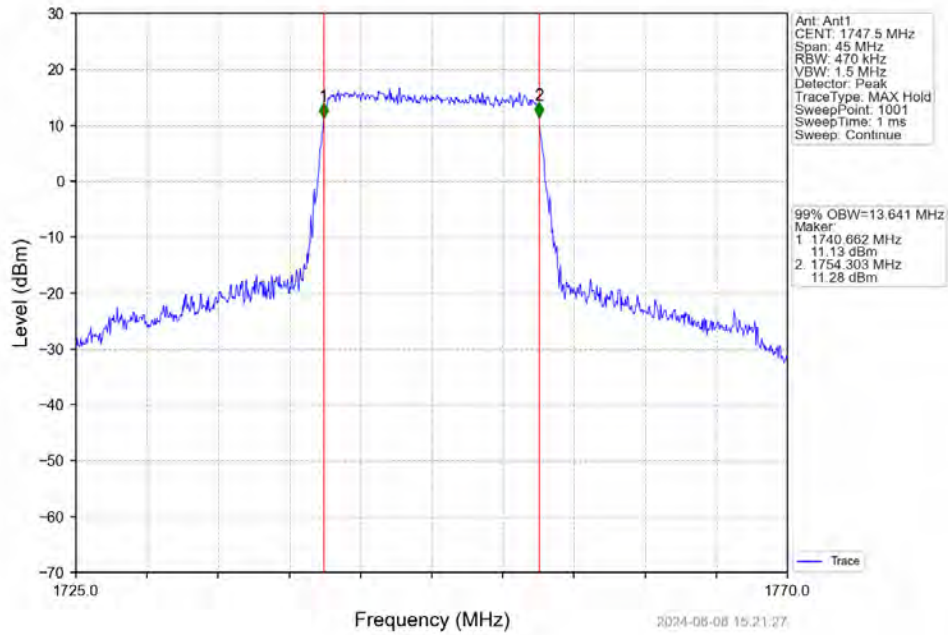
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTV



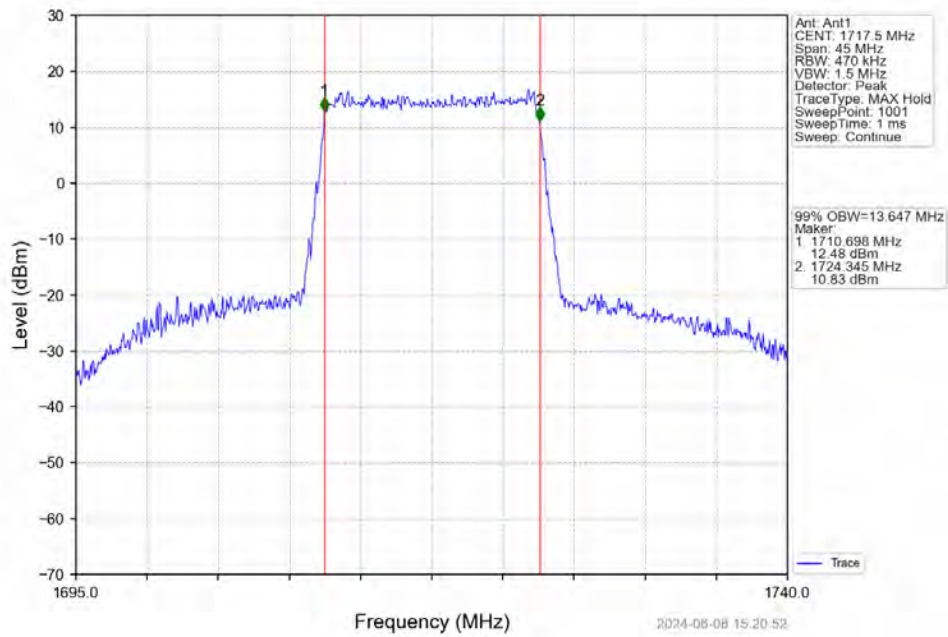
Band4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTV



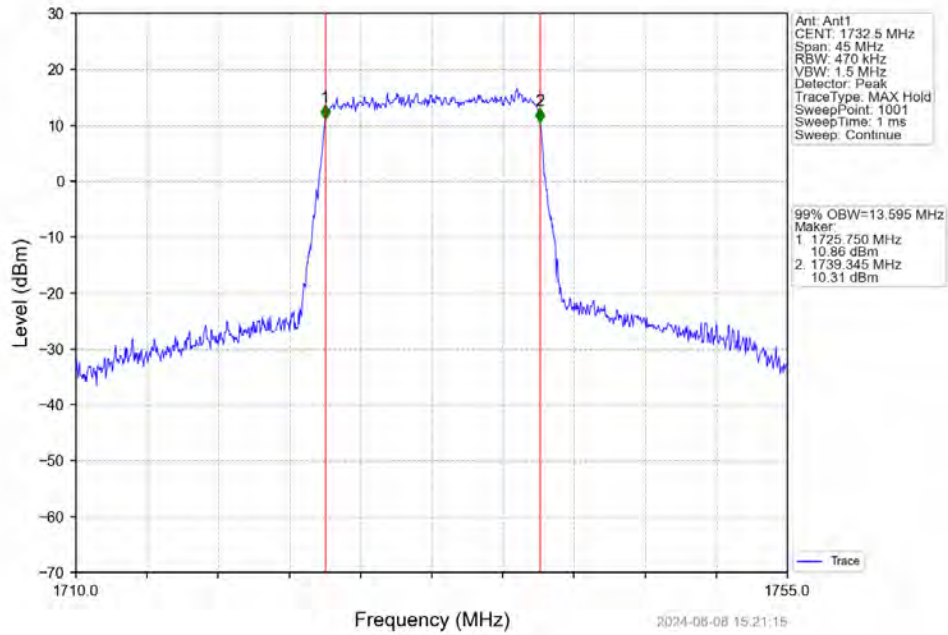
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



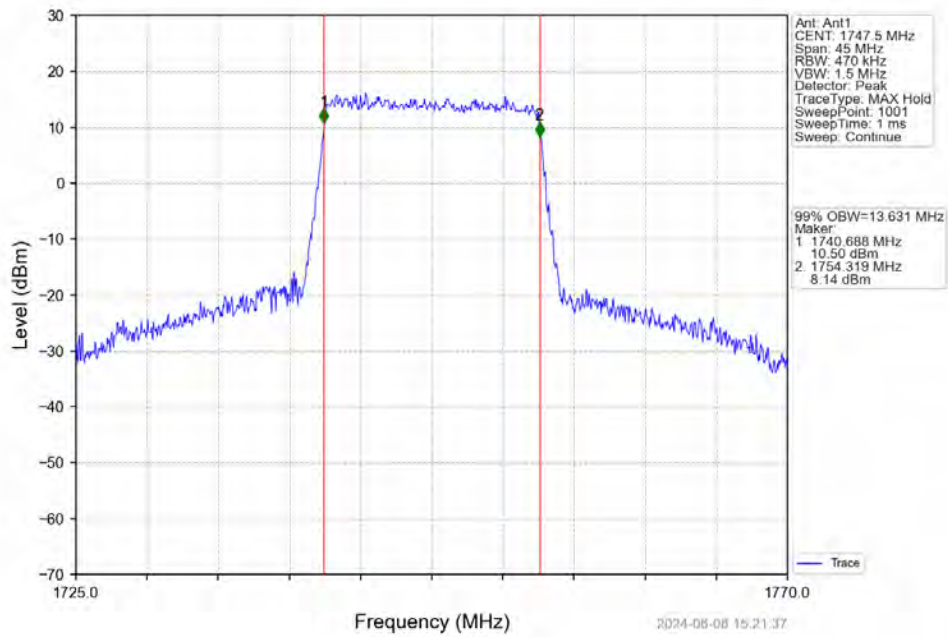
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



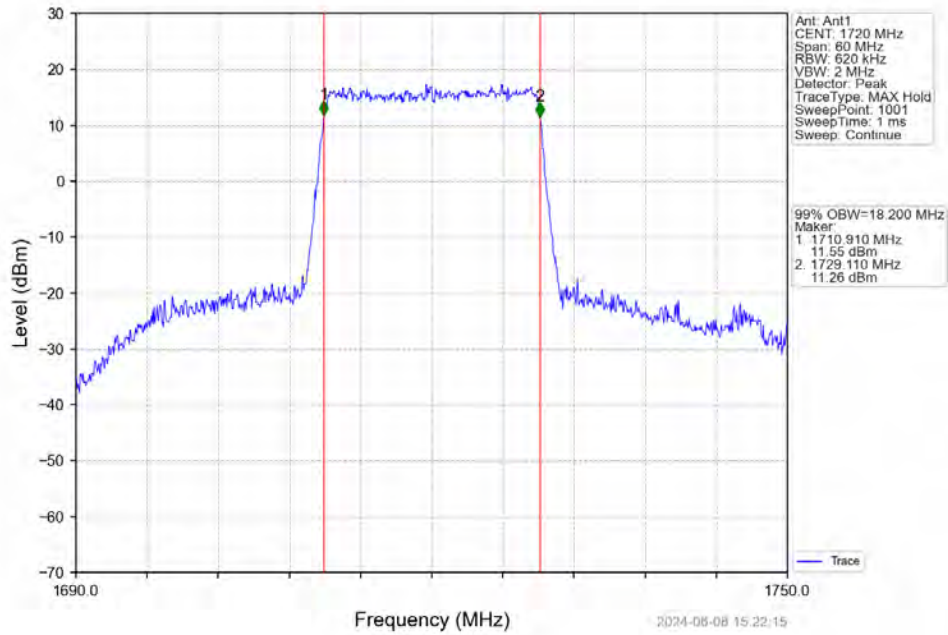
Band4 15MHz 16QAM MCH 1732.5MHz RB 75.0 NTNV



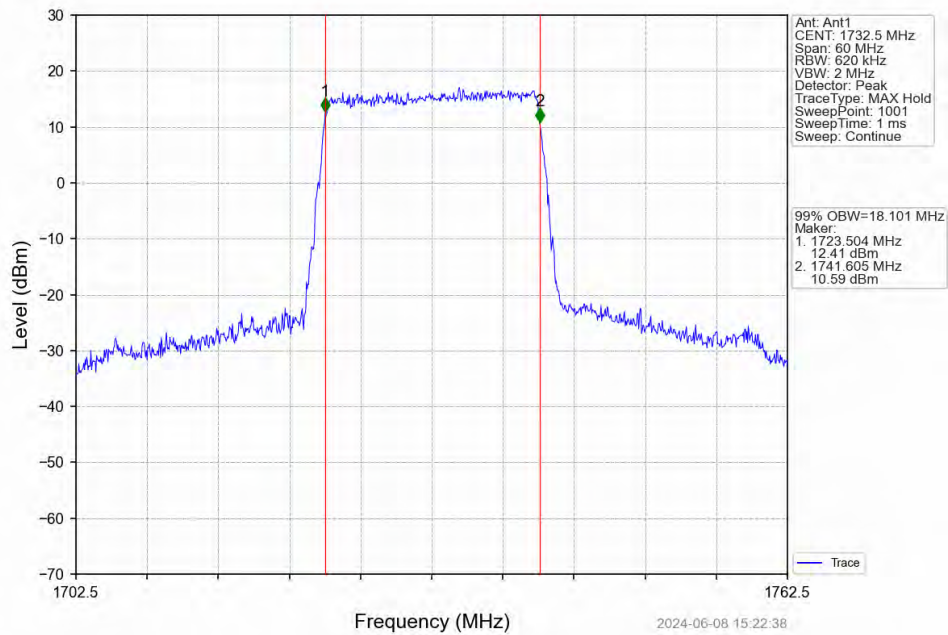
Band4 15MHz 16QAM HCH 1747.5MHz RB 75.0 NTNV



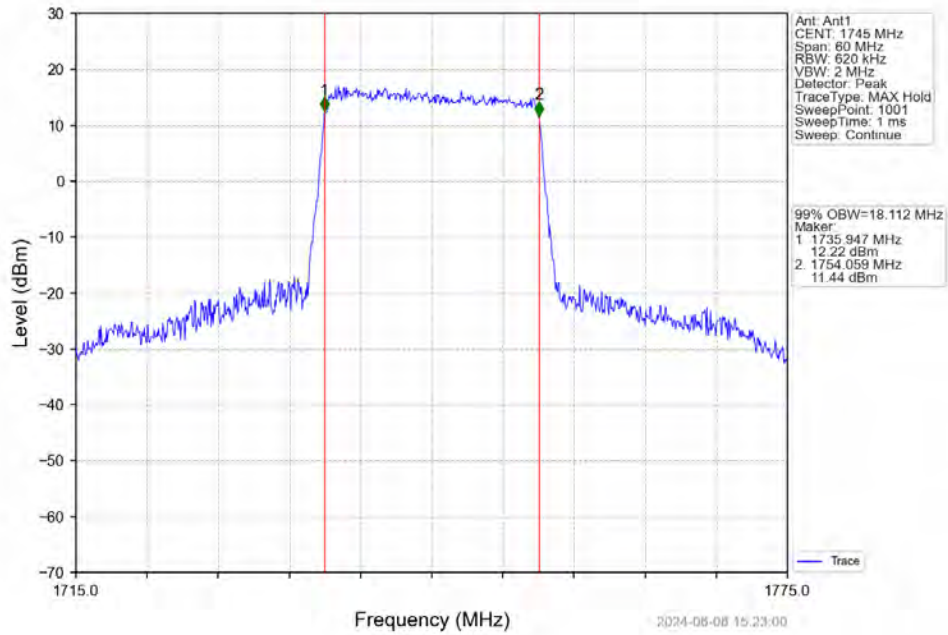
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



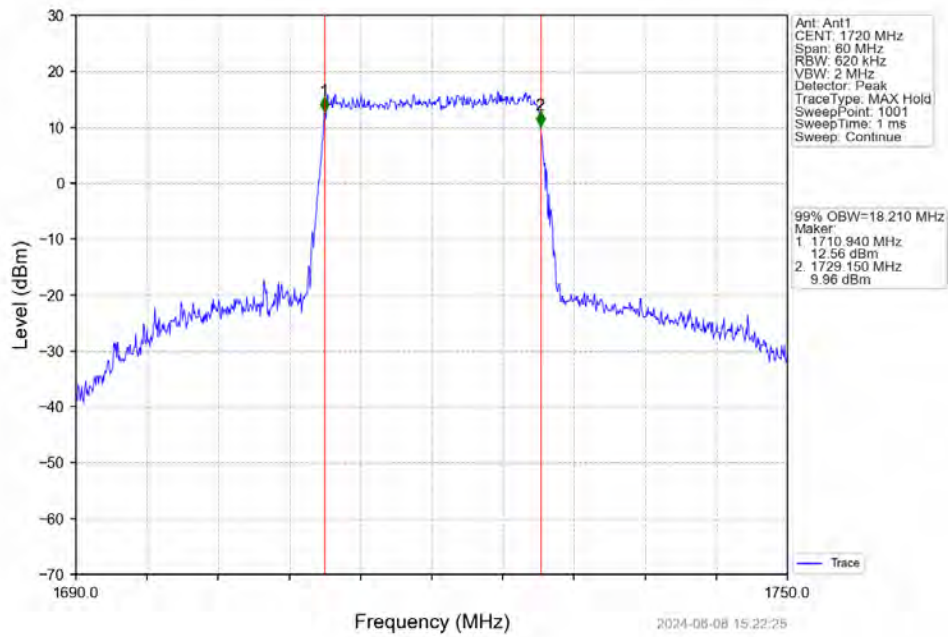
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTNV



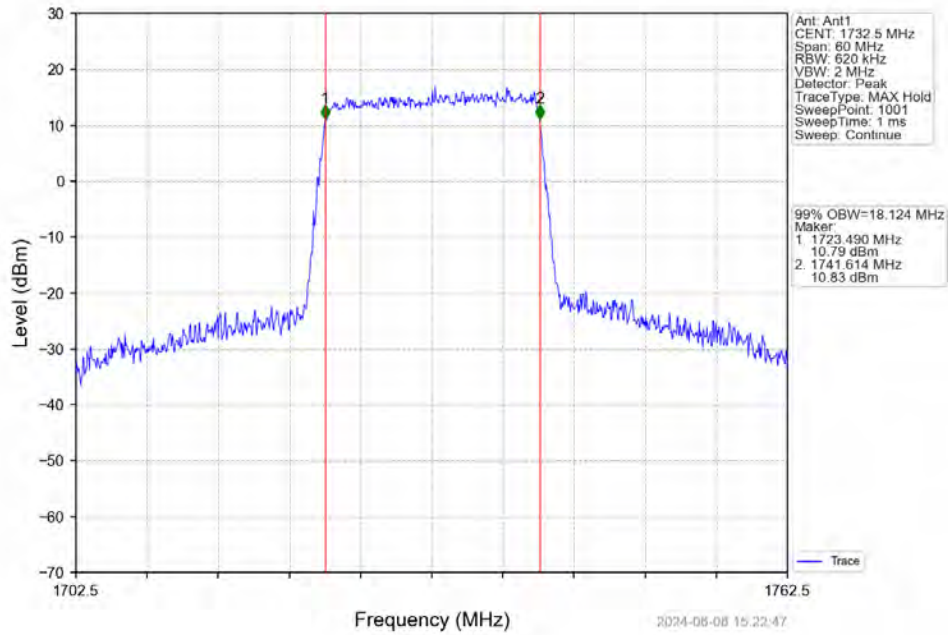
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



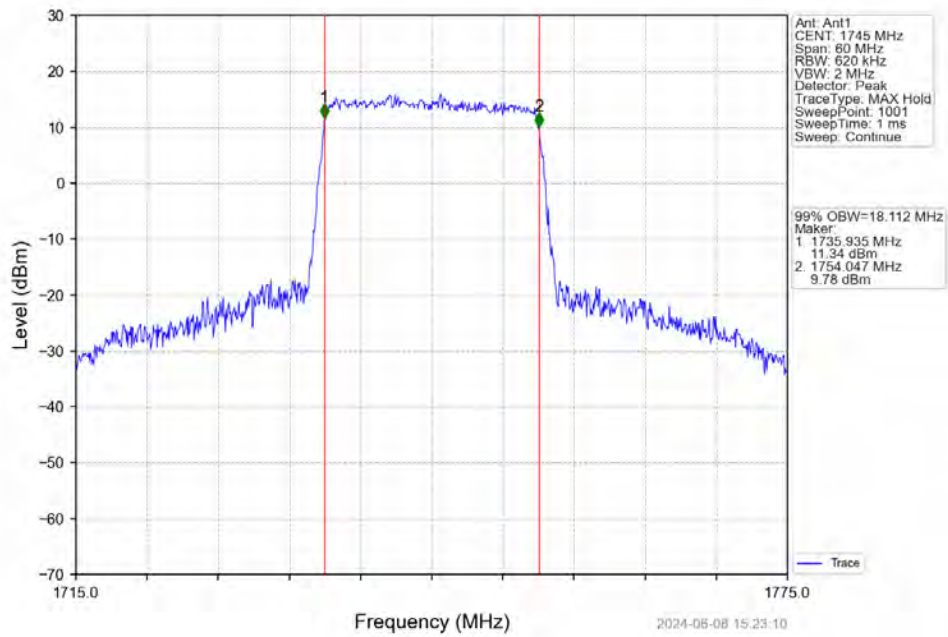
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV

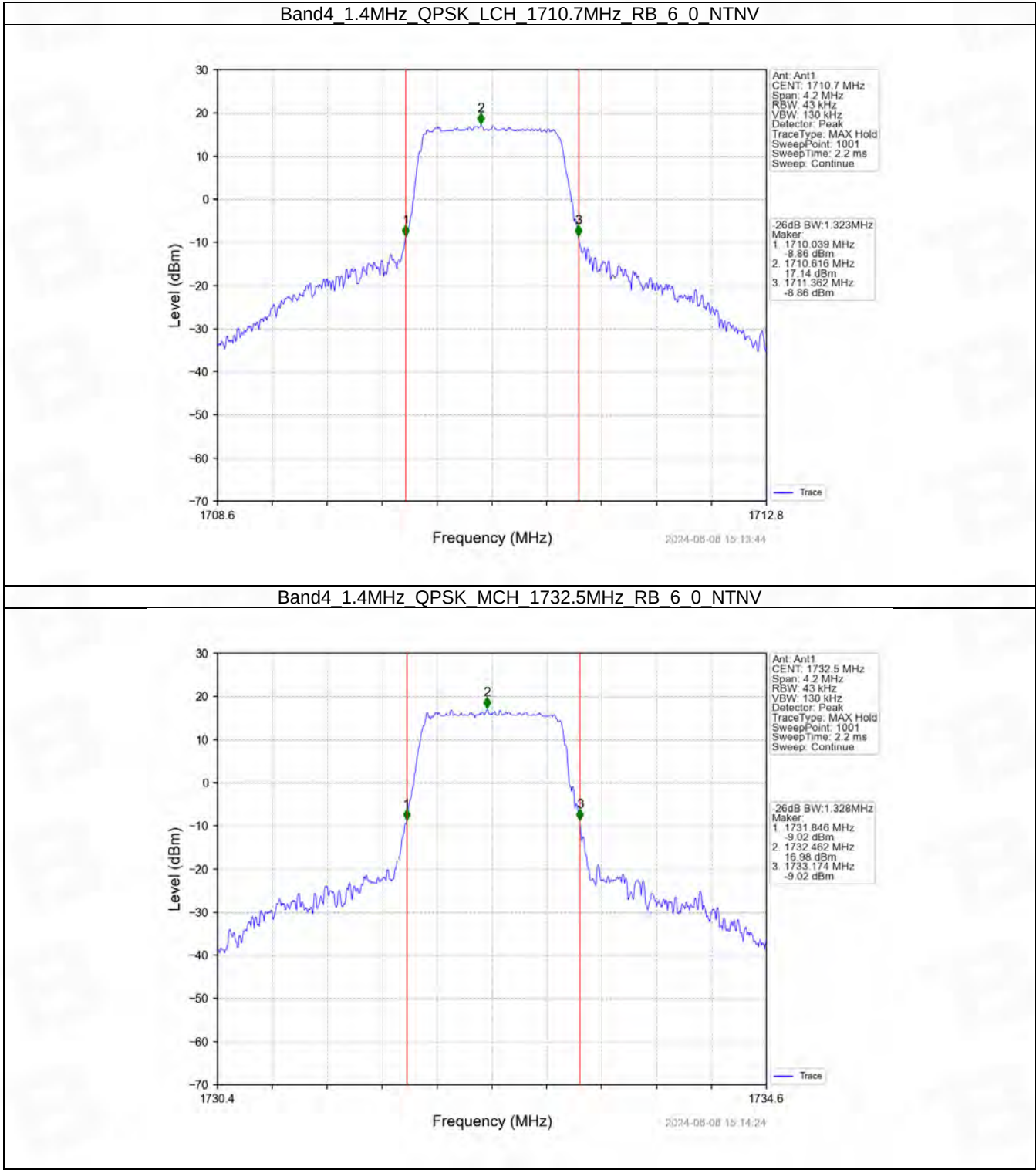


4.2 Band4_XDB

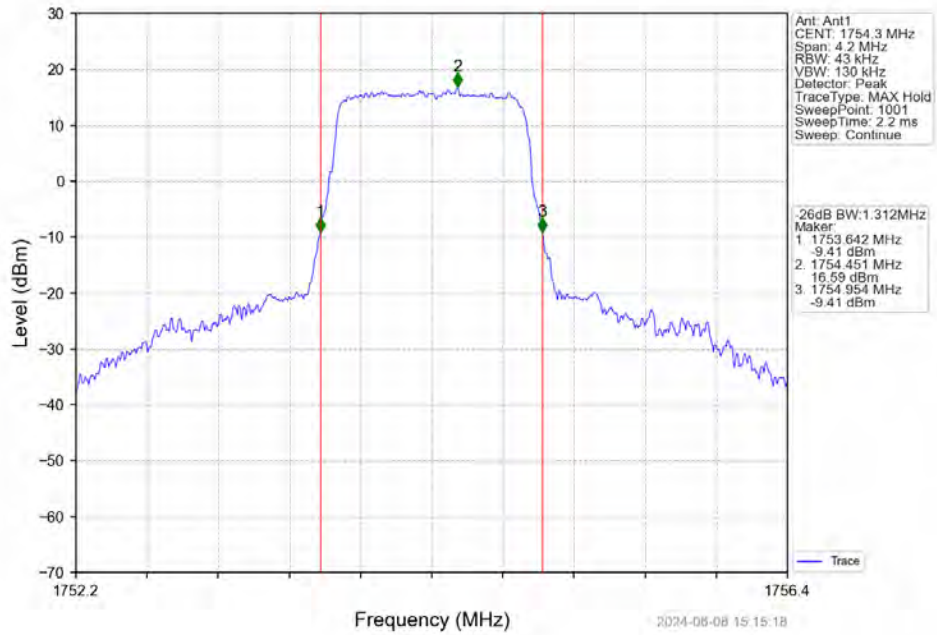
4.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.323	/	Pass
		1732.5	6	0	1.328	/	Pass
		1754.3	6	0	1.312	/	Pass
	16QAM	1710.7	6	0	1.327	/	Pass
		1732.5	6	0	1.304	/	Pass
		1754.3	6	0	1.322	/	Pass
3	QPSK	1711.5	15	0	2.989	/	Pass
		1732.5	15	0	3.004	/	Pass
		1753.5	15	0	3.003	/	Pass
	16QAM	1711.5	15	0	2.999	/	Pass
		1732.5	15	0	2.988	/	Pass
		1753.5	15	0	3.021	/	Pass
5	QPSK	1712.5	25	0	5.267	/	Pass
		1732.5	25	0	5.242	/	Pass
		1752.5	25	0	5.241	/	Pass
	16QAM	1712.5	25	0	5.279	/	Pass
		1732.5	25	0	5.260	/	Pass
		1752.5	25	0	5.219	/	Pass
10	QPSK	1715	50	0	10.354	/	Pass
		1732.5	50	0	10.231	/	Pass
		1750	50	0	10.267	/	Pass
	16QAM	1715	50	0	10.318	/	Pass
		1732.5	50	0	10.319	/	Pass
		1750	50	0	10.296	/	Pass
15	QPSK	1717.5	75	0	15.404	/	Pass
		1732.5	75	0	15.222	/	Pass
		1747.5	75	0	15.347	/	Pass
	16QAM	1717.5	75	0	15.257	/	Pass
		1732.5	75	0	15.266	/	Pass
		1747.5	75	0	15.373	/	Pass
20	QPSK	1720	100	0	20.140	/	Pass
		1732.5	100	0	19.908	/	Pass
		1745	100	0	19.984	/	Pass
	16QAM	1720	100	0	20.332	/	Pass
		1732.5	100	0	20.023	/	Pass
		1745	100	0	19.973	/	Pass

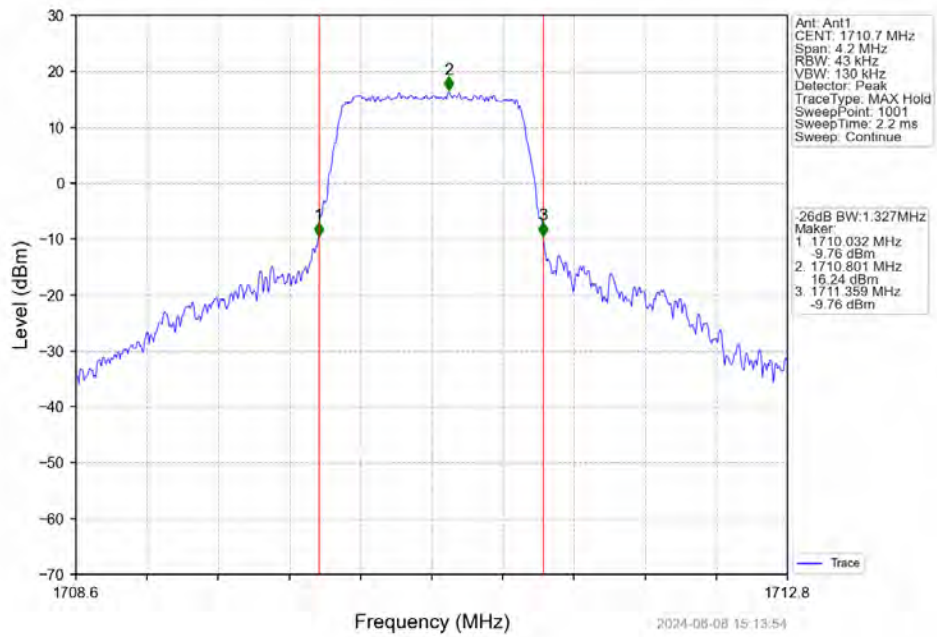
4.2.2 Test Graph



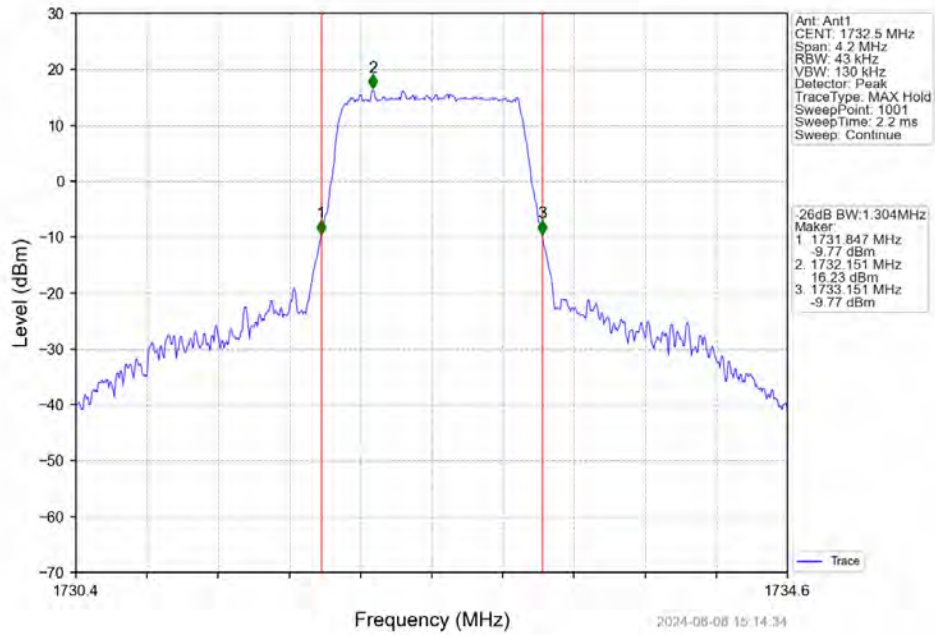
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



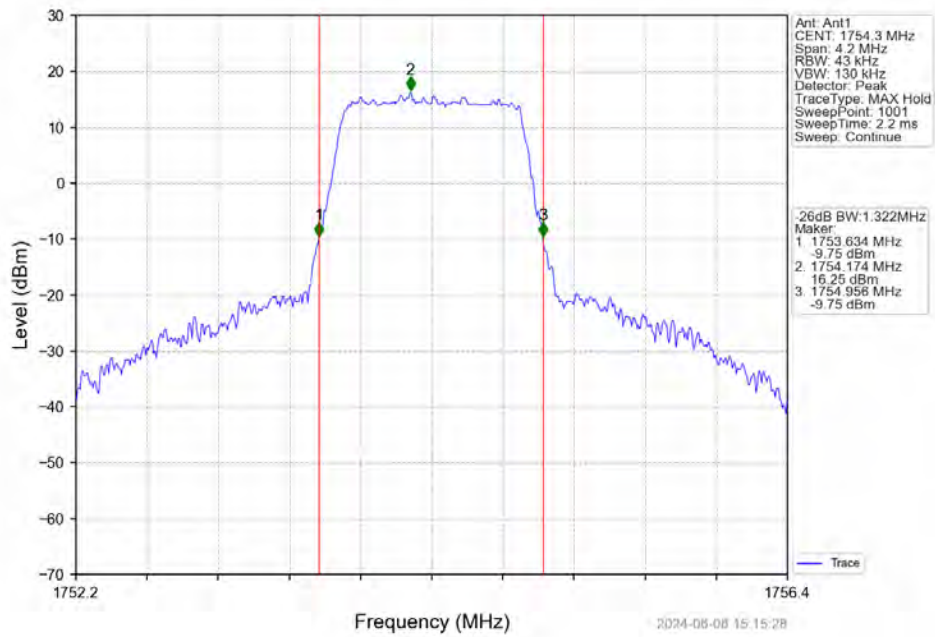
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



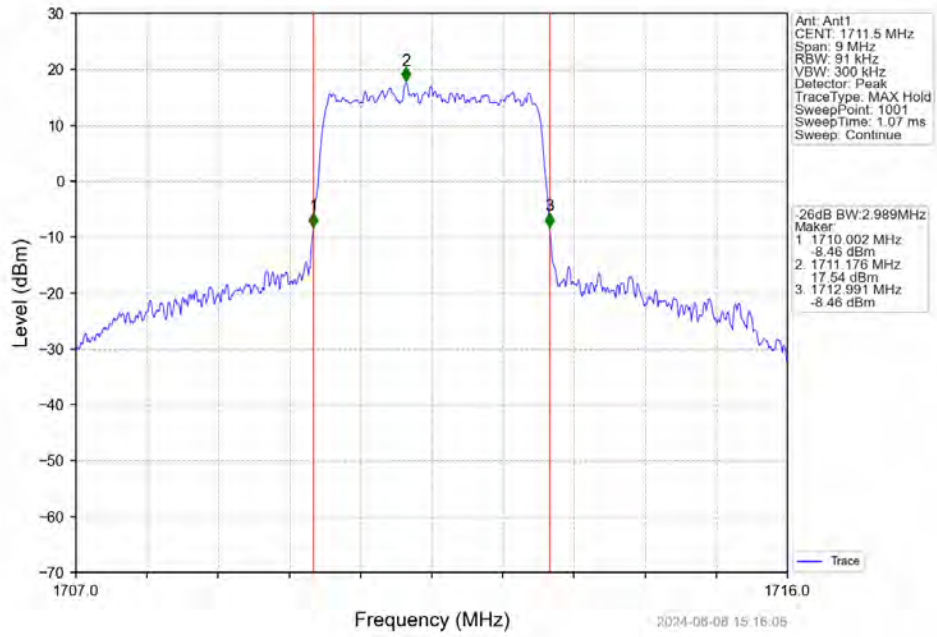
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



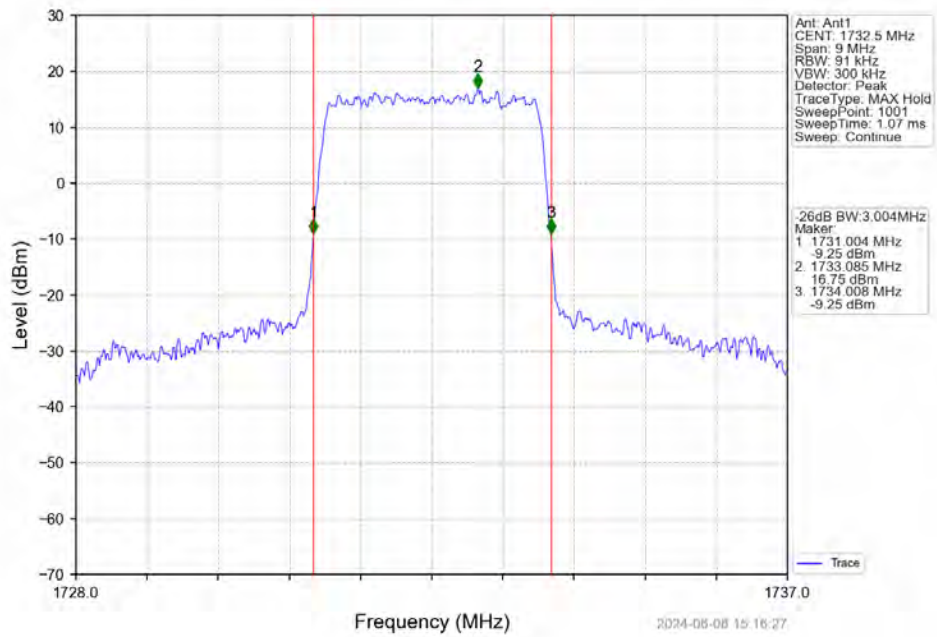
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



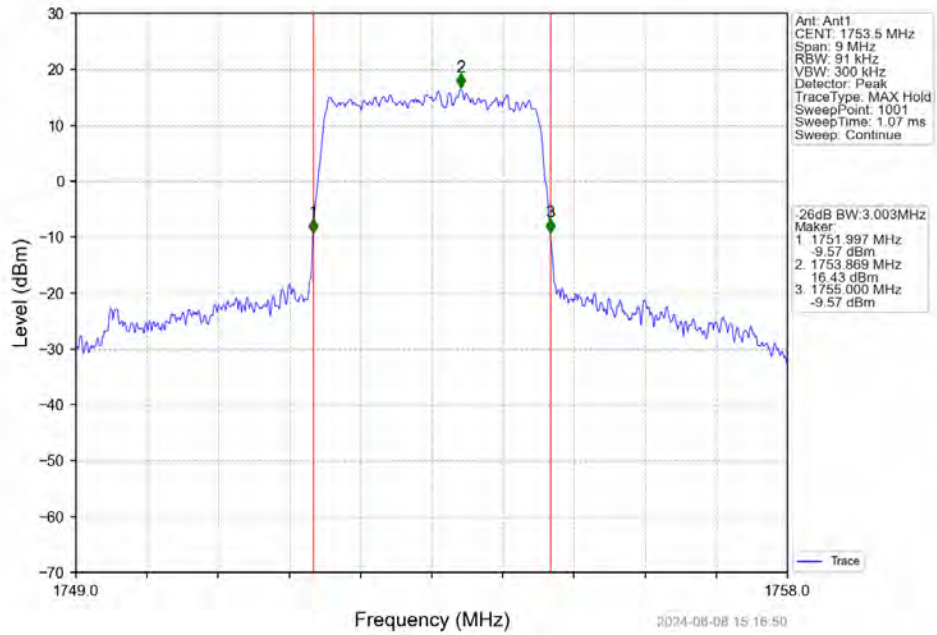
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



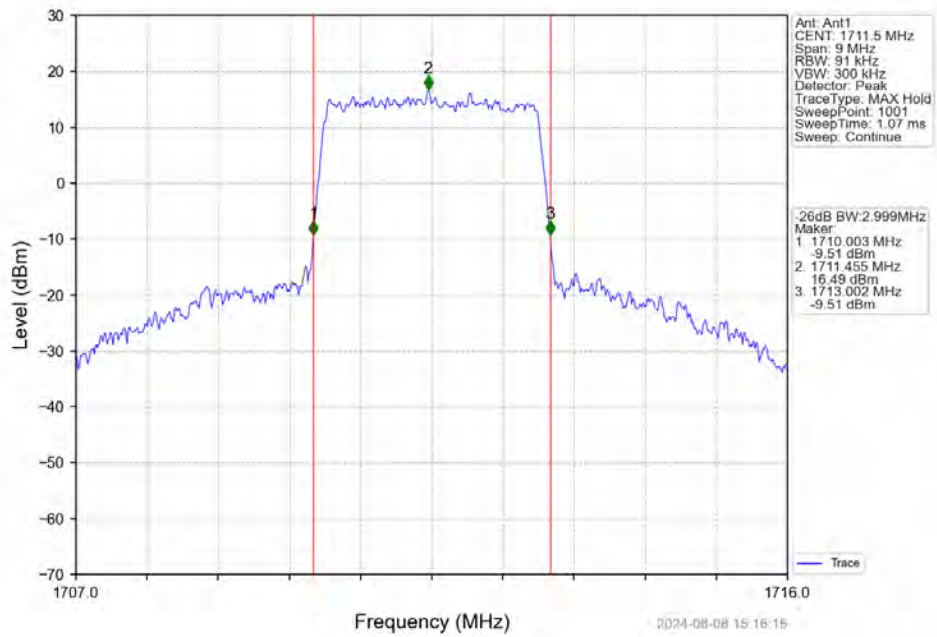
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTNV



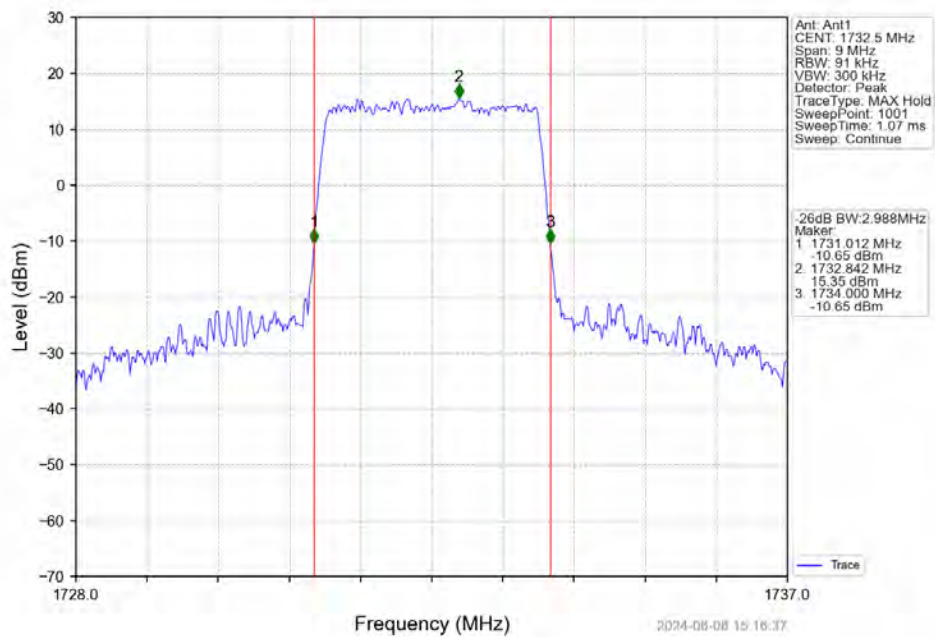
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



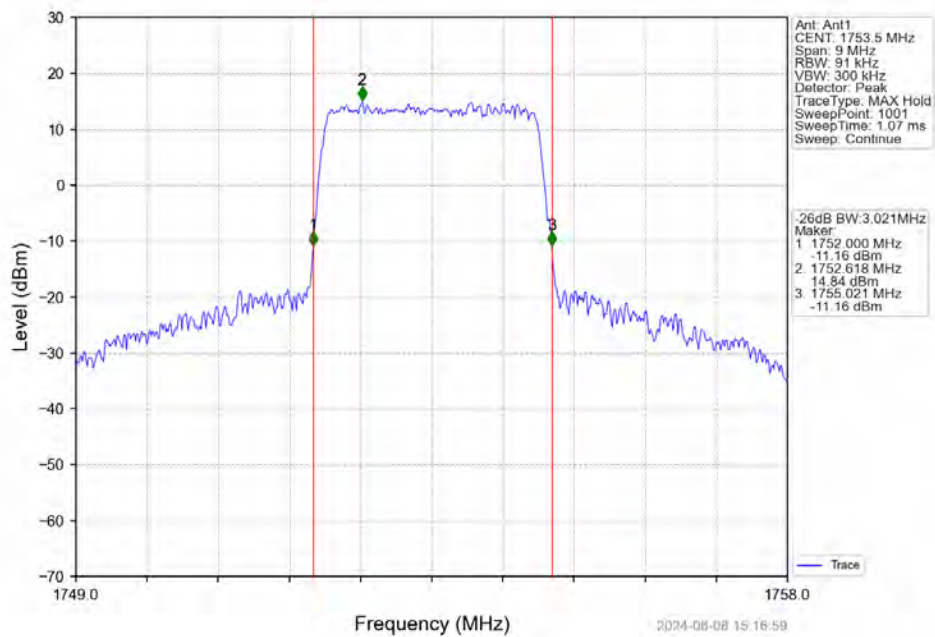
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTNV



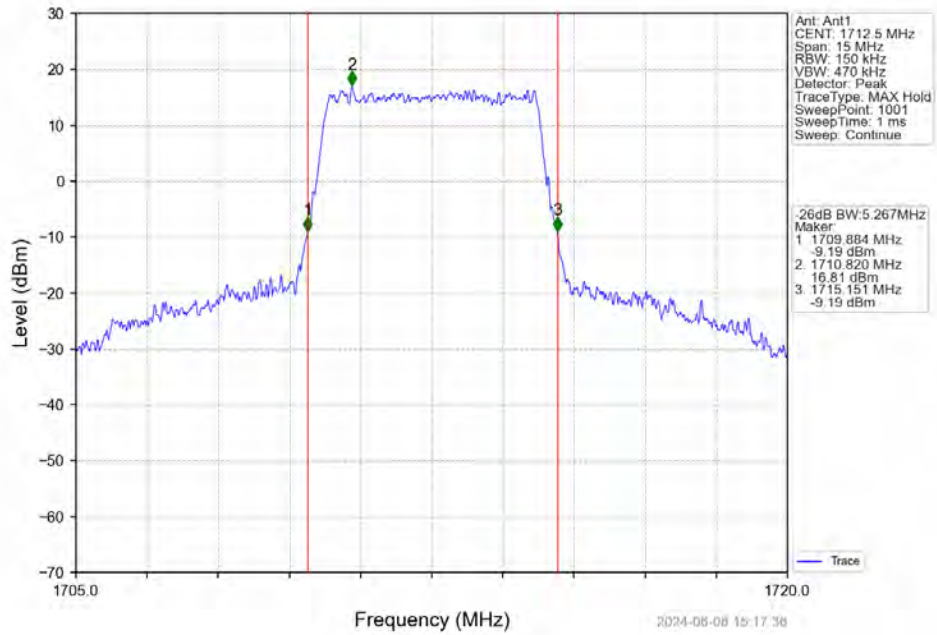
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



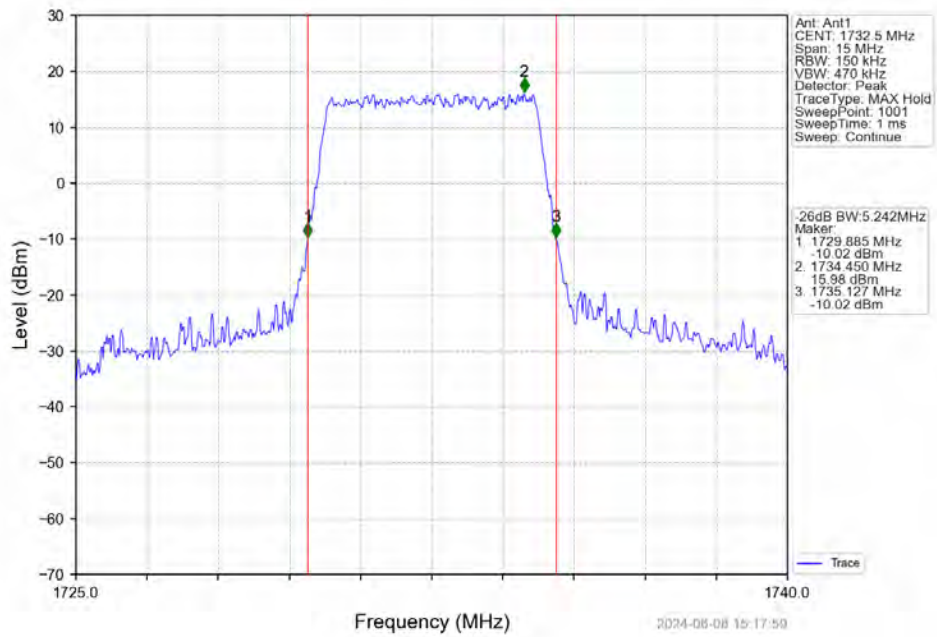
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



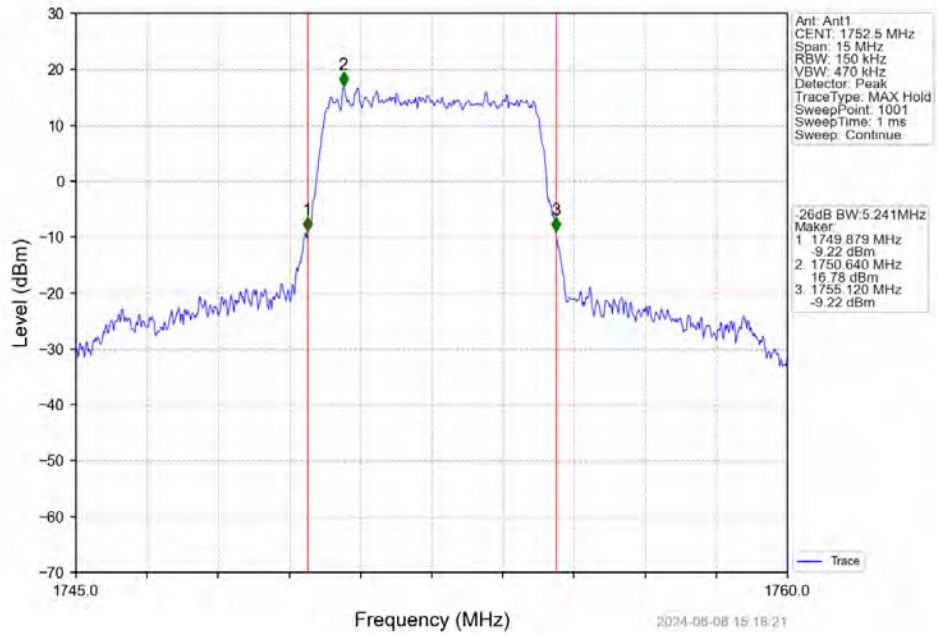
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



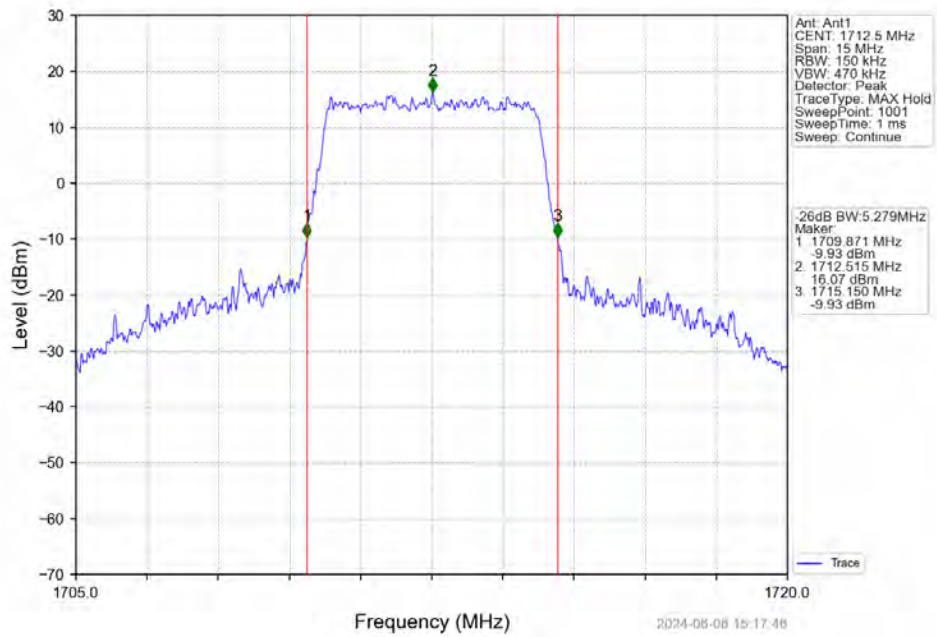
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



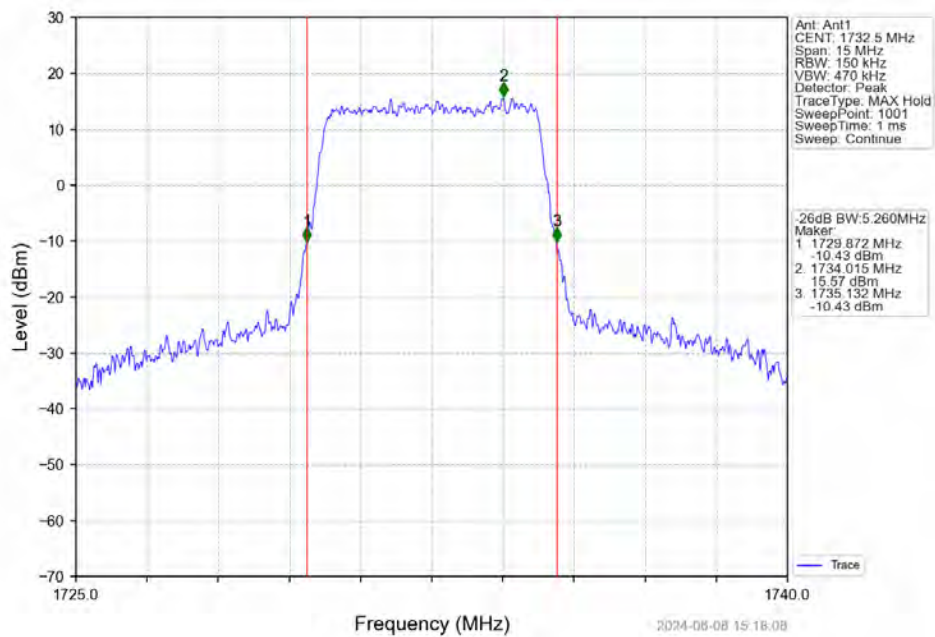
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTNV



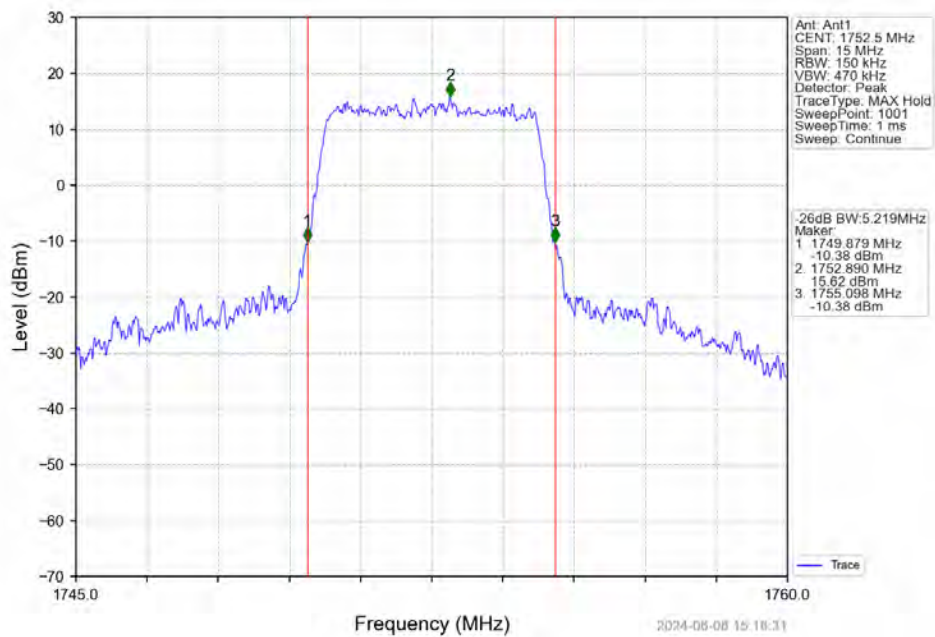
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTNV



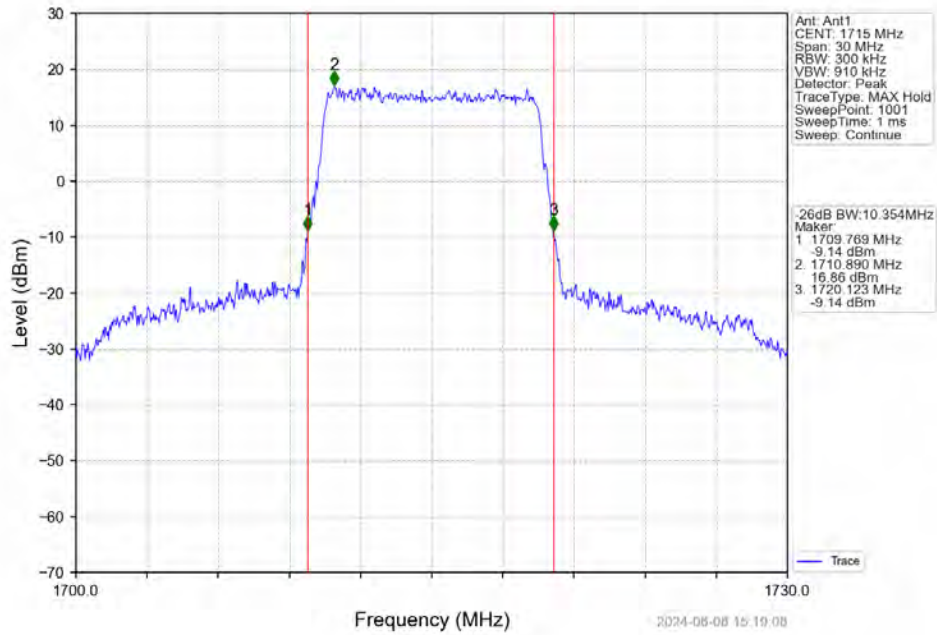
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



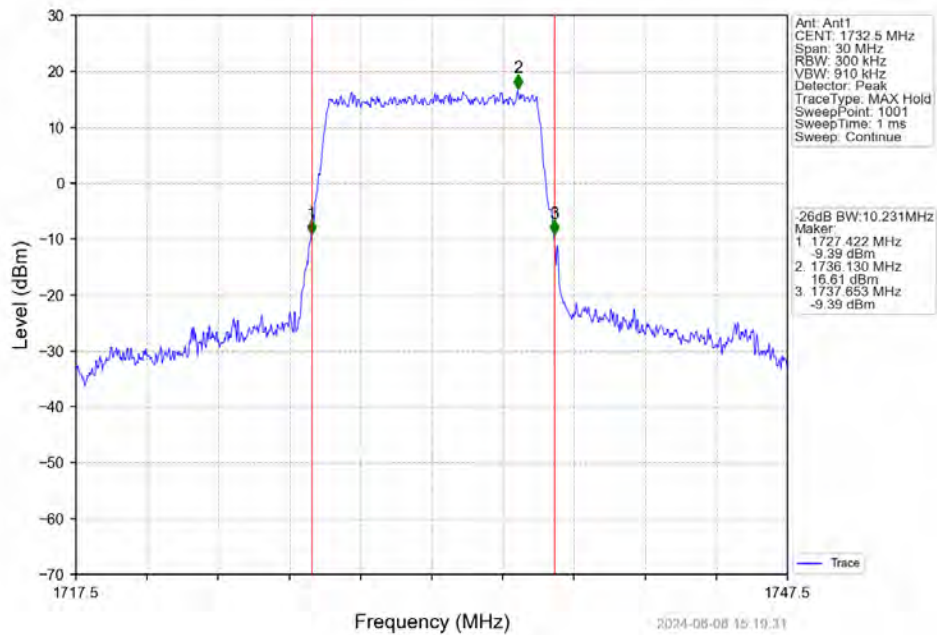
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



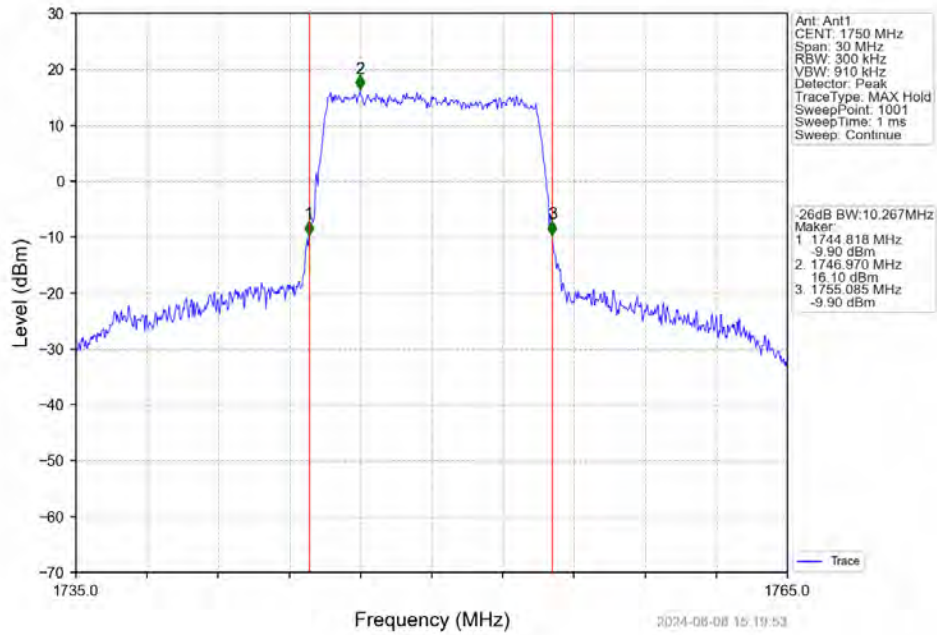
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN



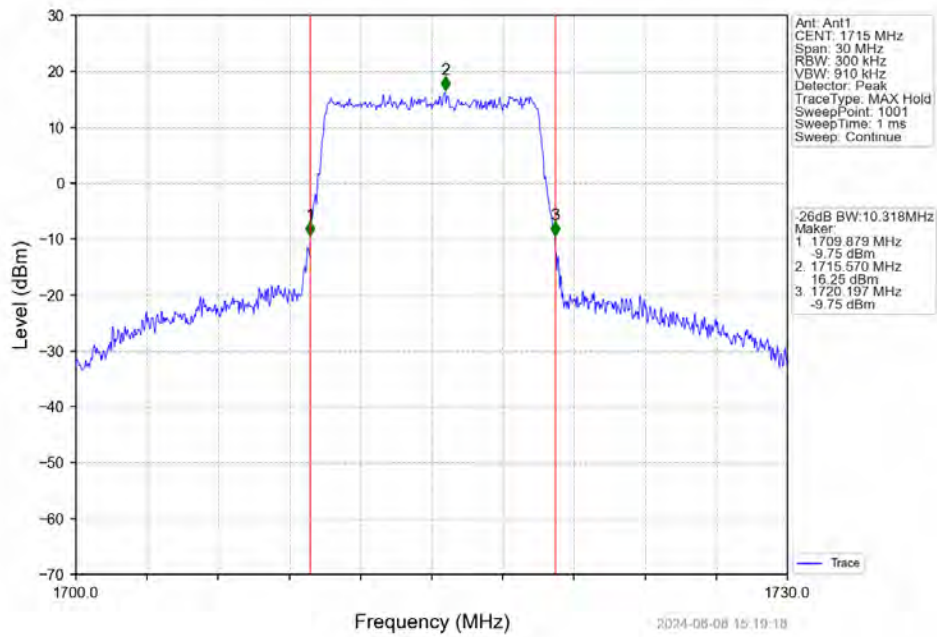
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTN



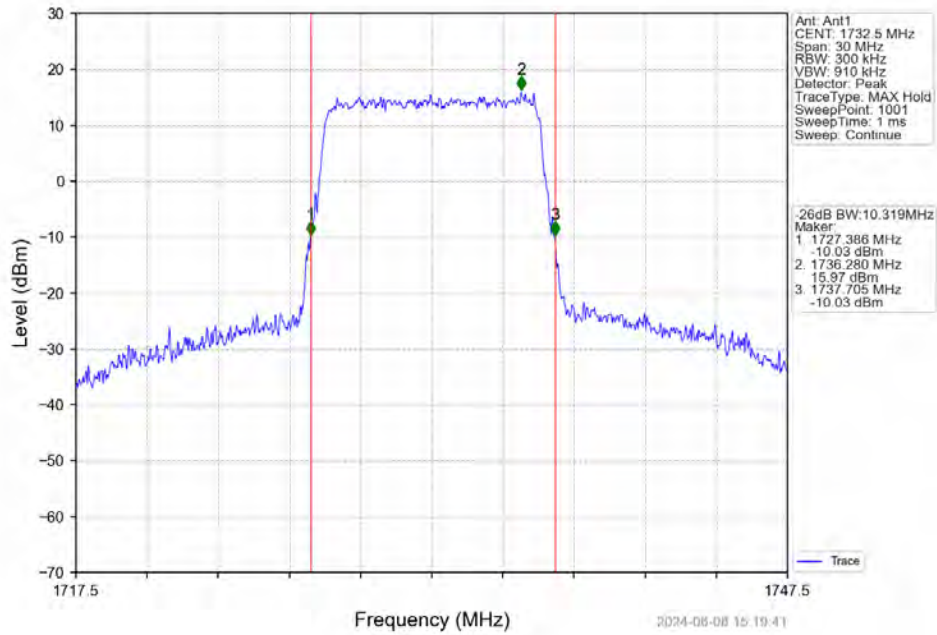
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



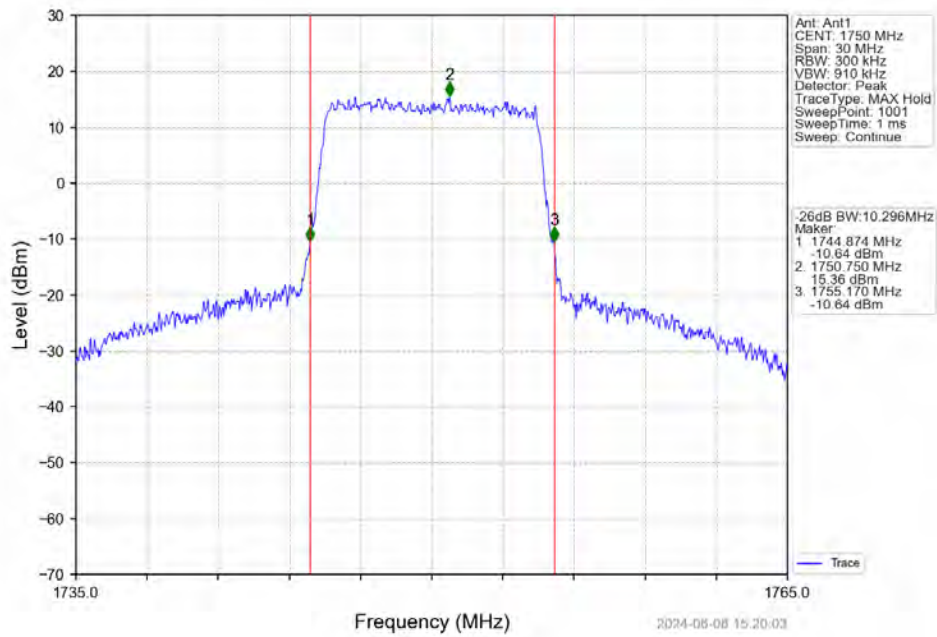
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



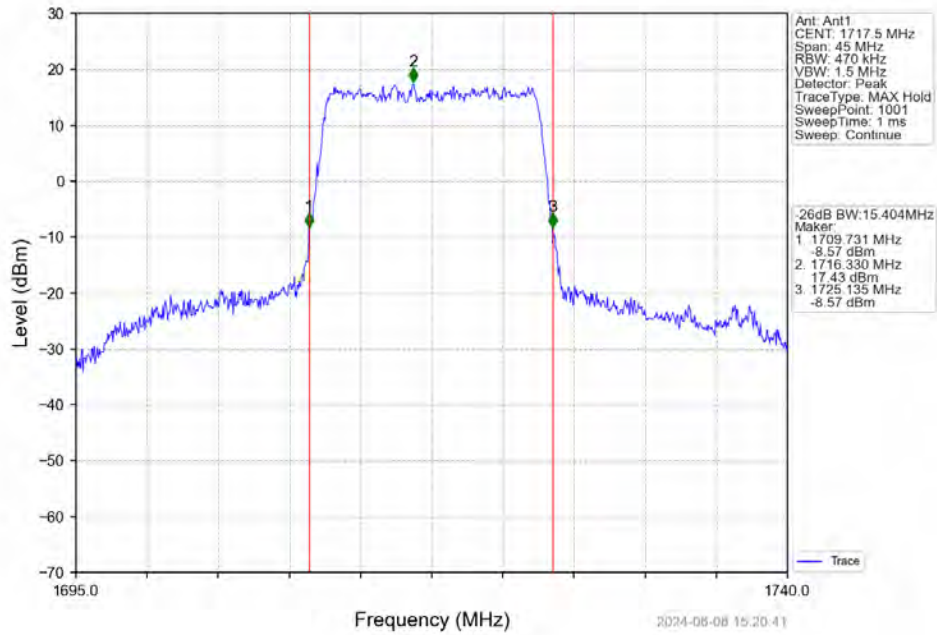
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



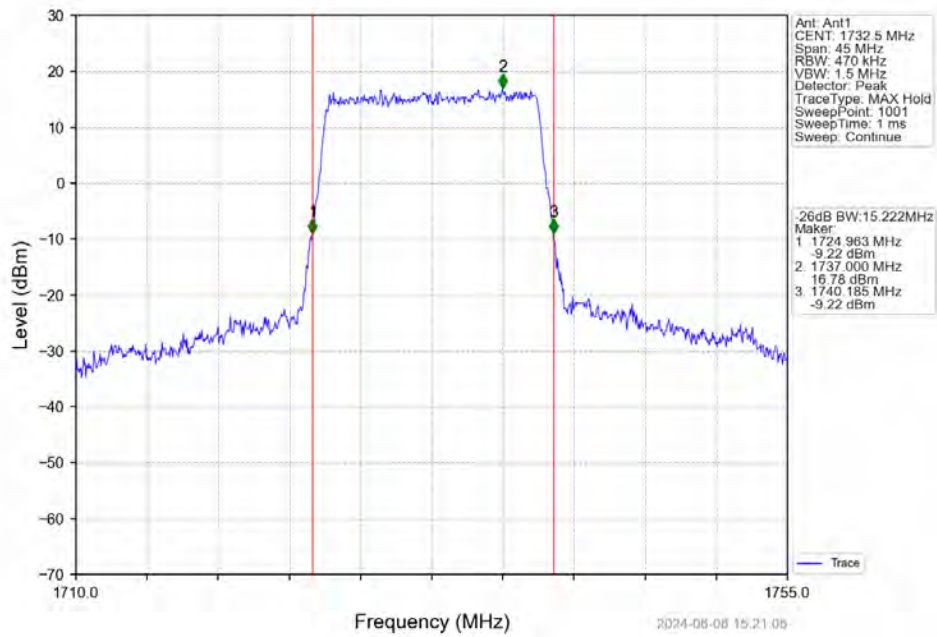
Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTNV



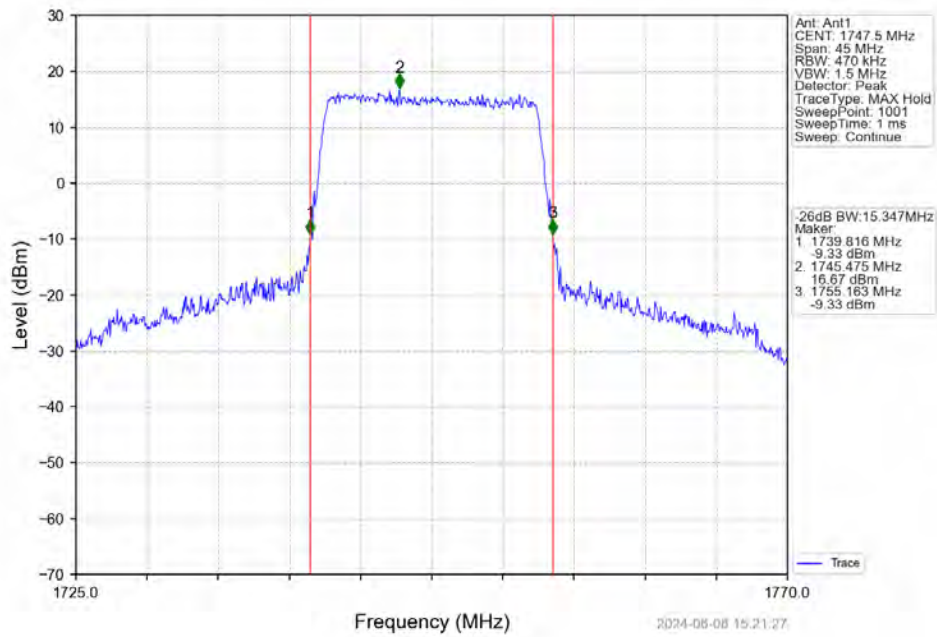
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTNV



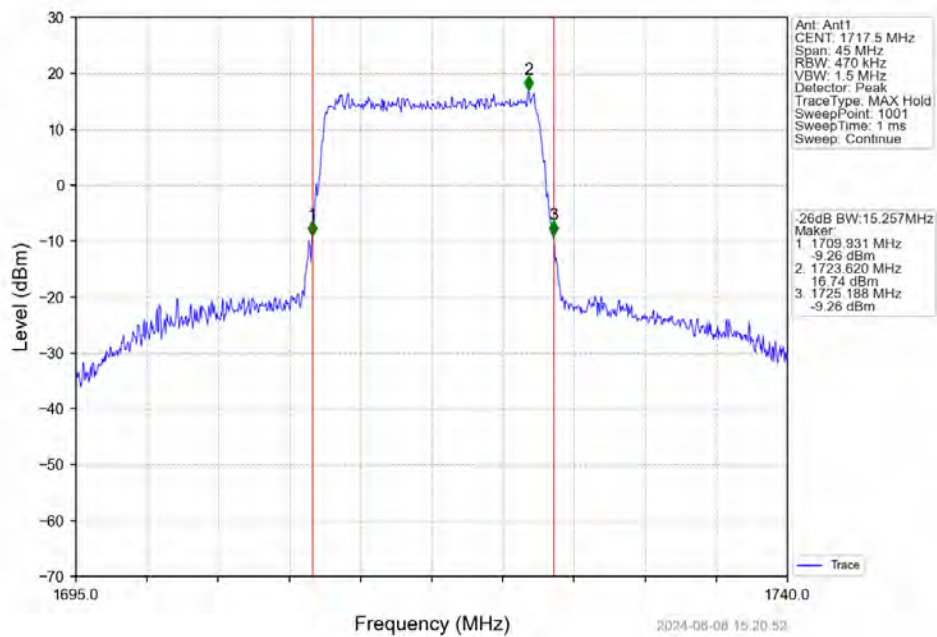
Band4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTNV



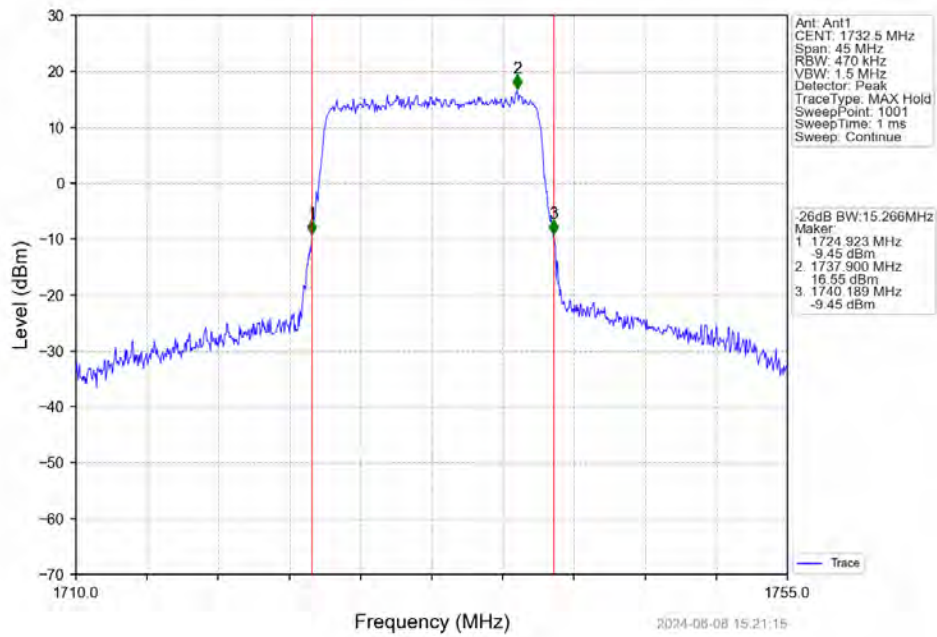
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



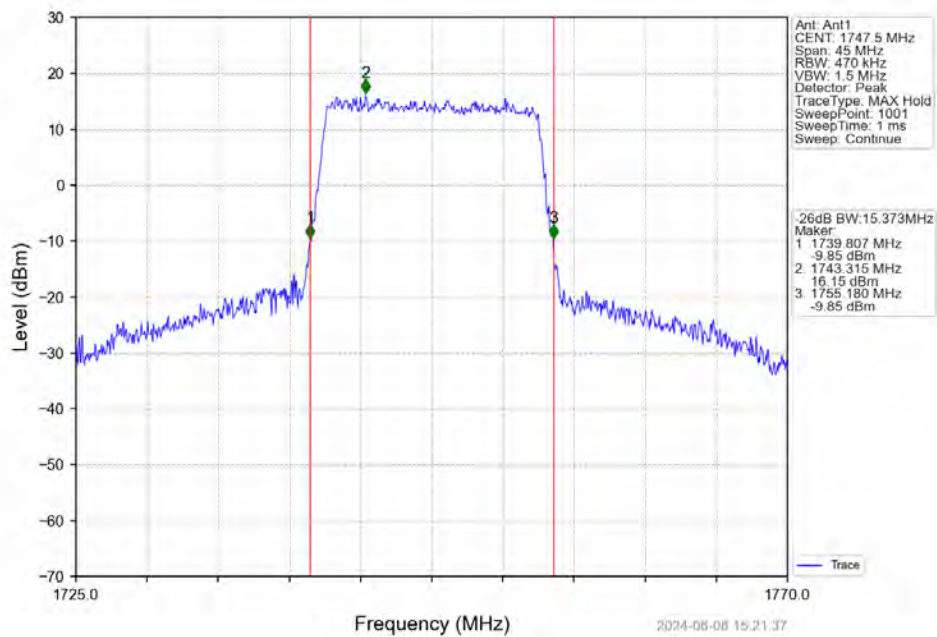
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



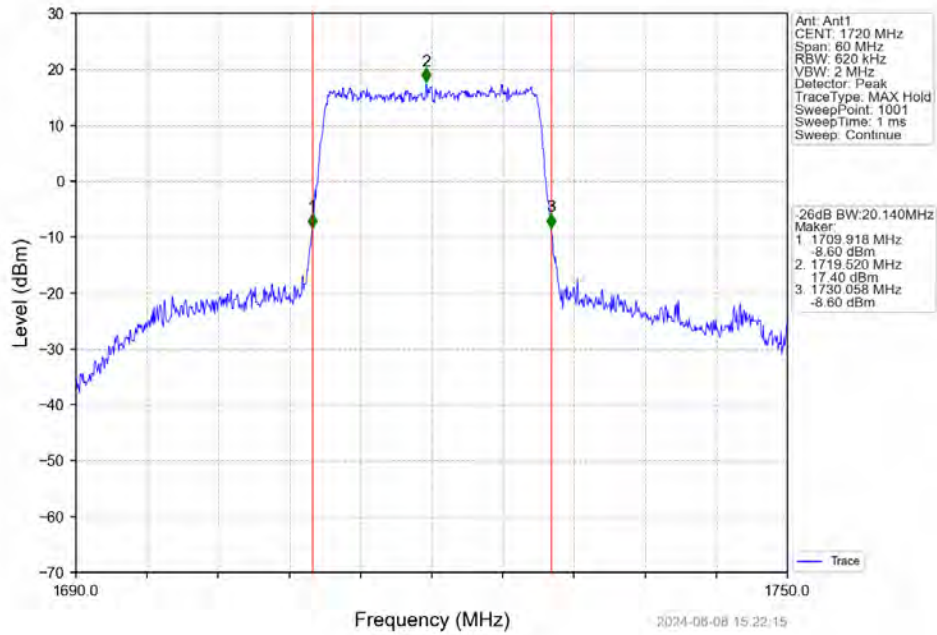
Band4 15MHz 16QAM MCH 1732.5MHz RB 75.0 NTNV



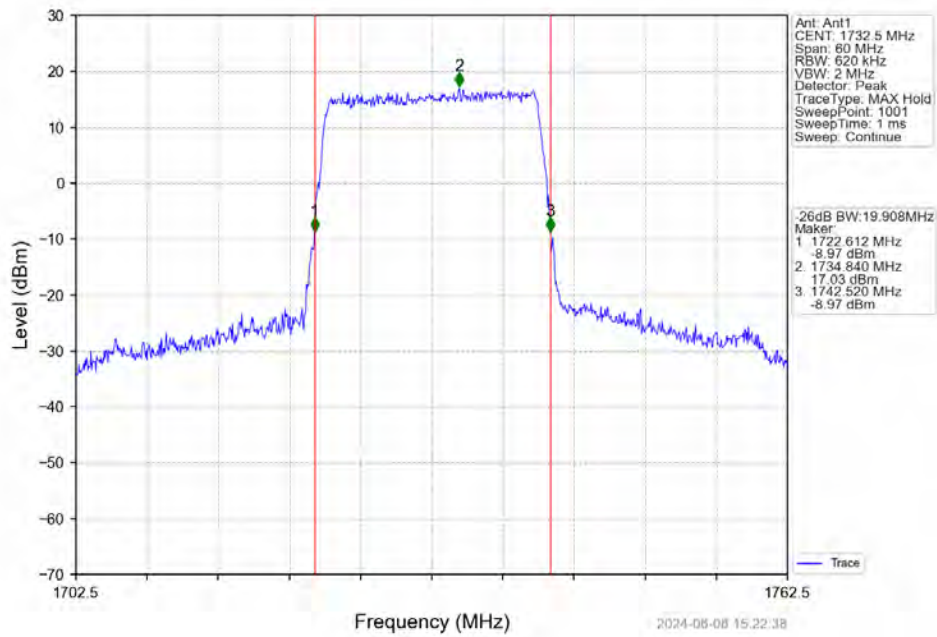
Band4 15MHz 16QAM HCH 1747.5MHz RB 75.0 NTNV



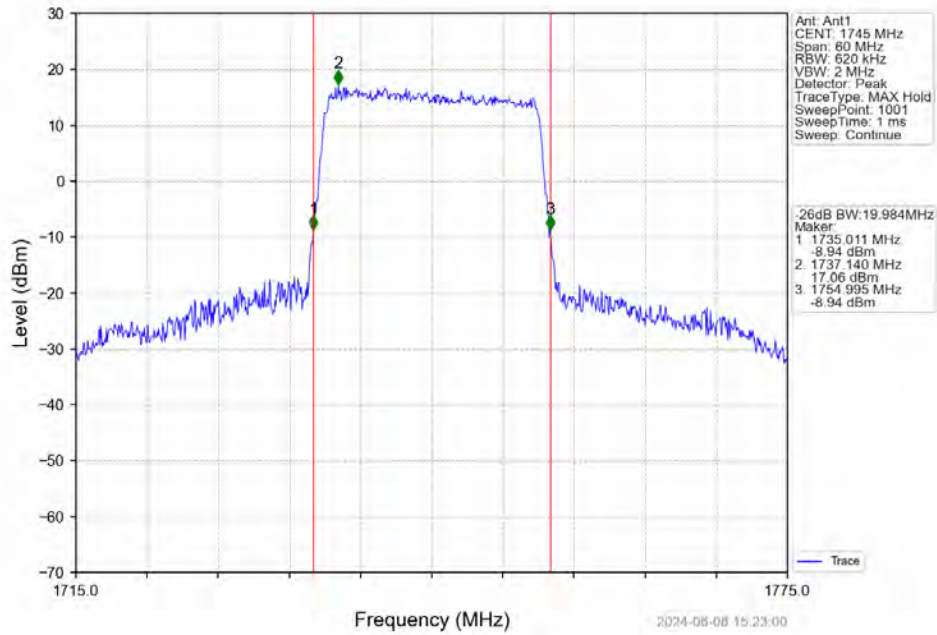
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



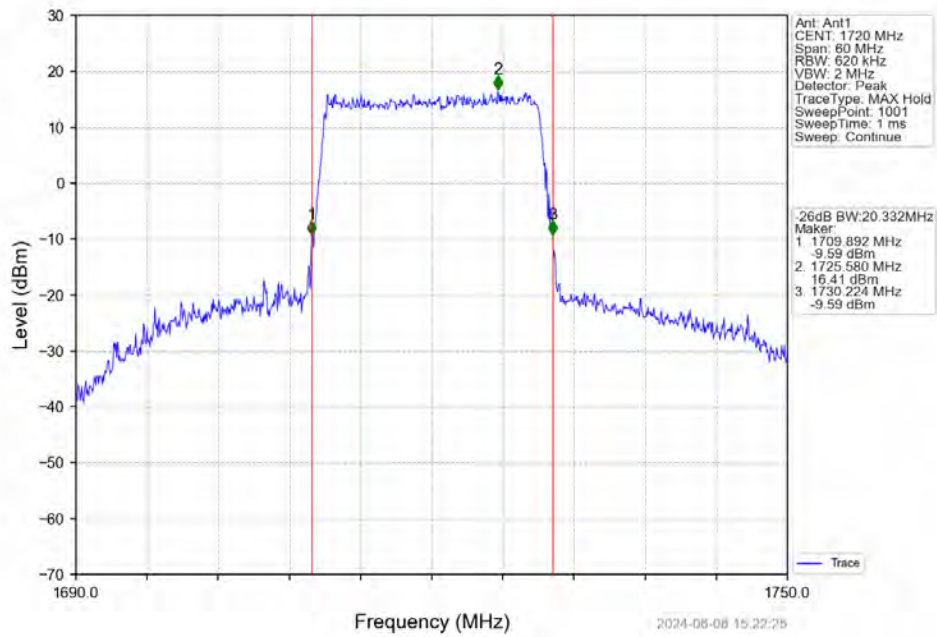
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTNV



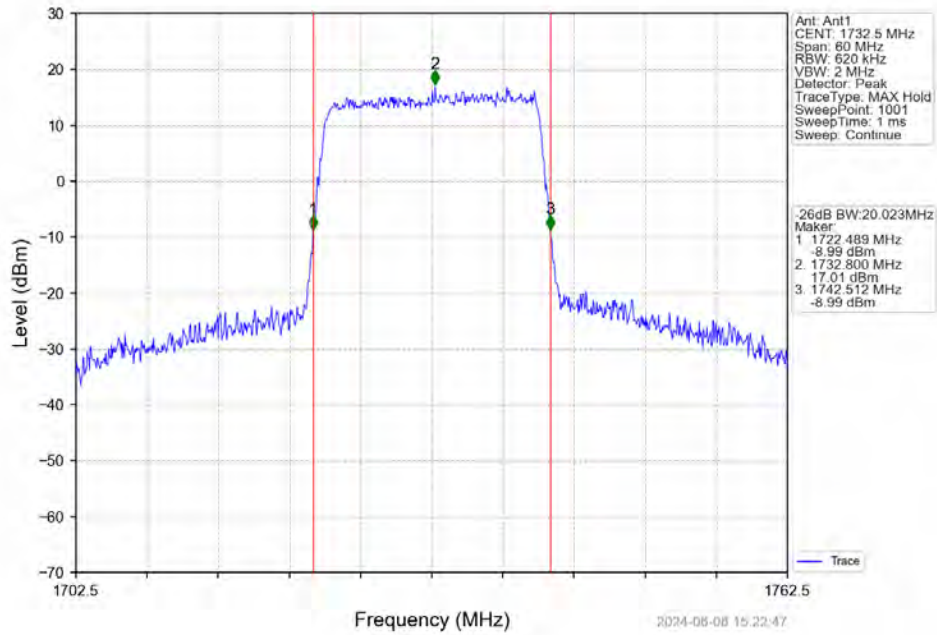
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



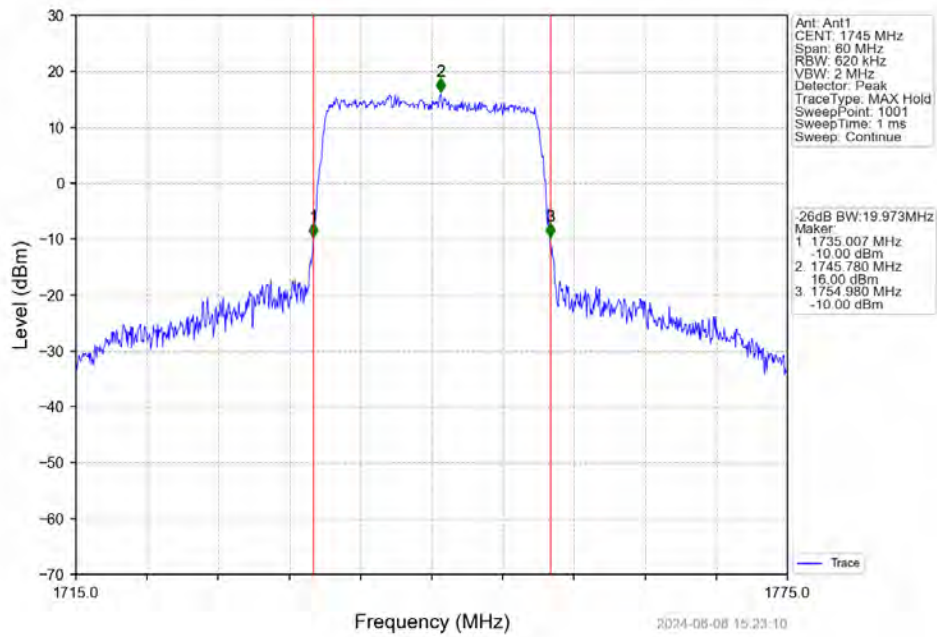
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



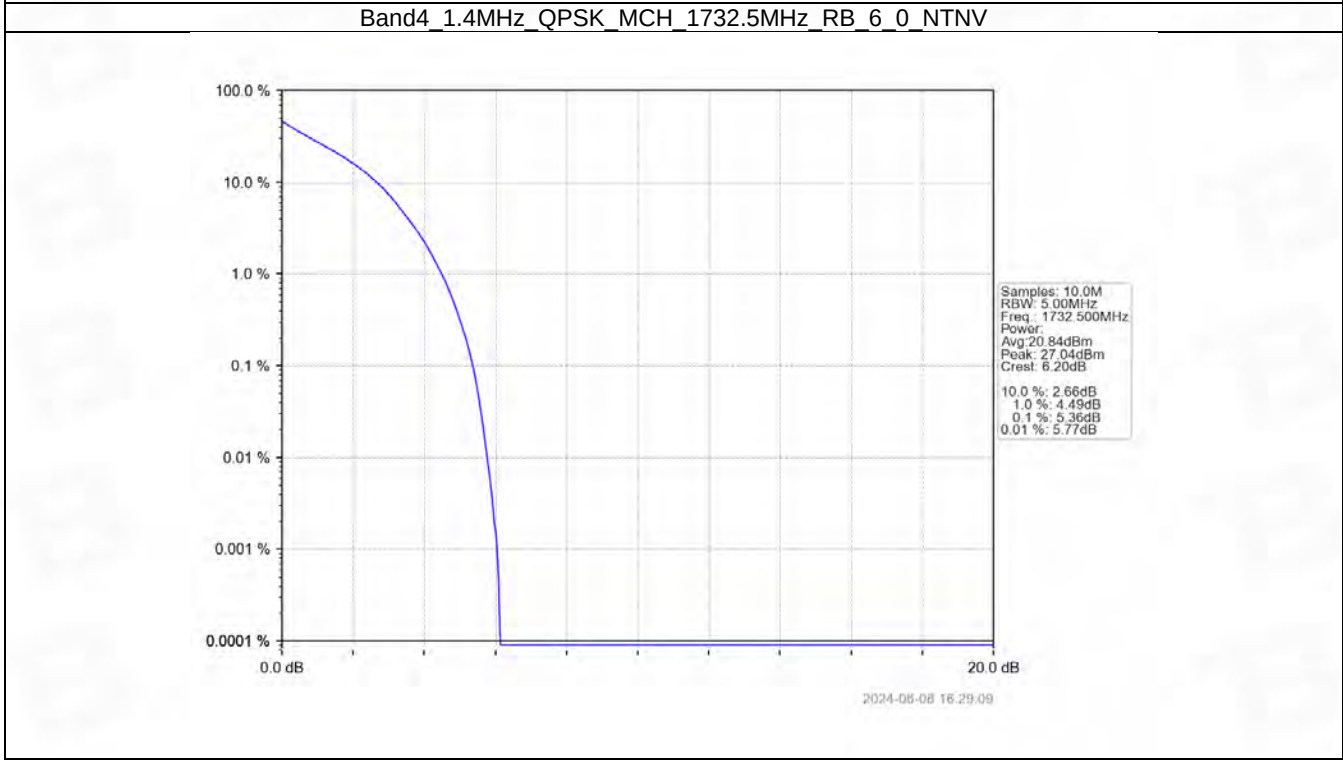
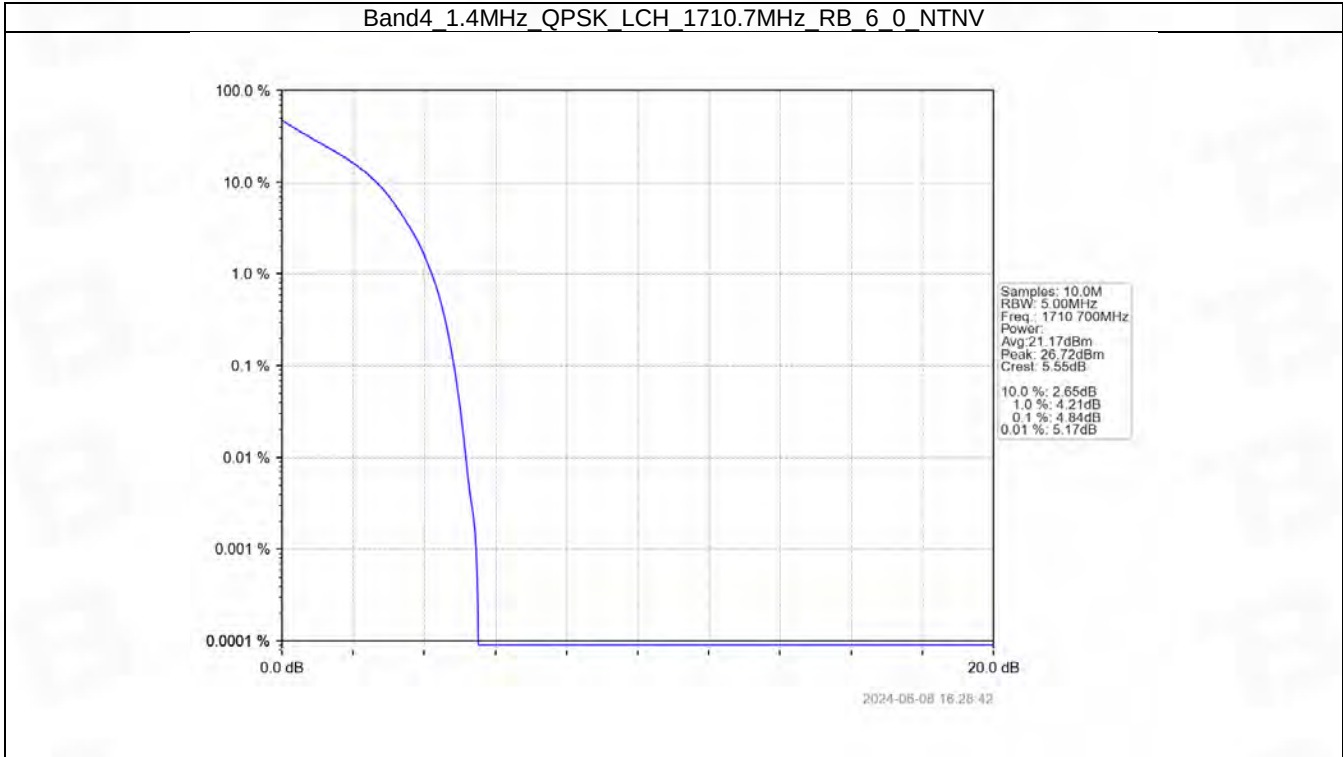
5. Peak-Average Ratio

5.1 B4_1.4MHz

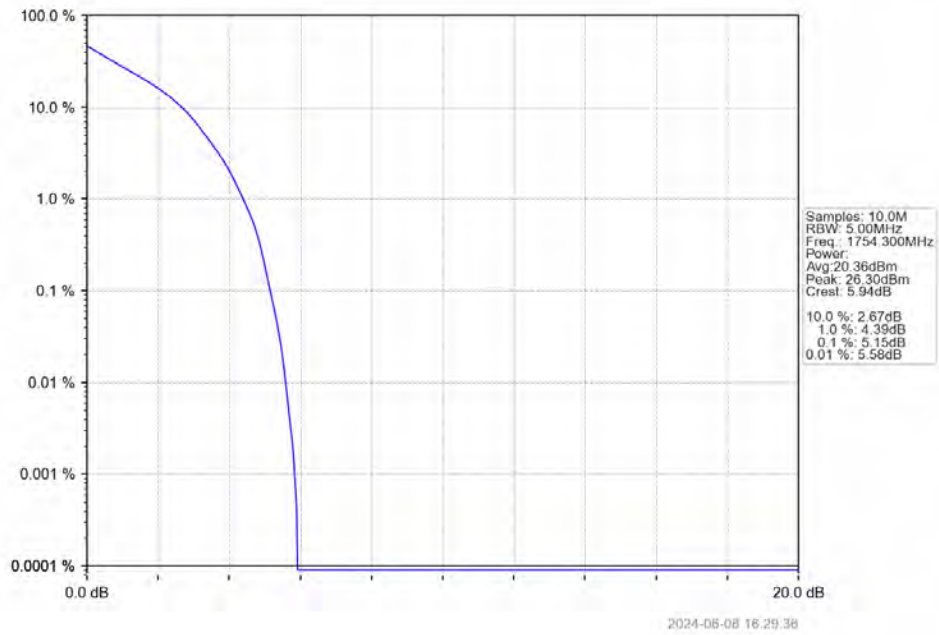
5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.84	<=13	Pass
	1732.5	6	0	5.36	<=13	Pass
	1754.3	6	0	5.15	<=13	Pass
16QAM	1710.7	6	0	5.69	<=13	Pass
	1732.5	6	0	6.19	<=13	Pass
	1754.3	6	0	6.04	<=13	Pass

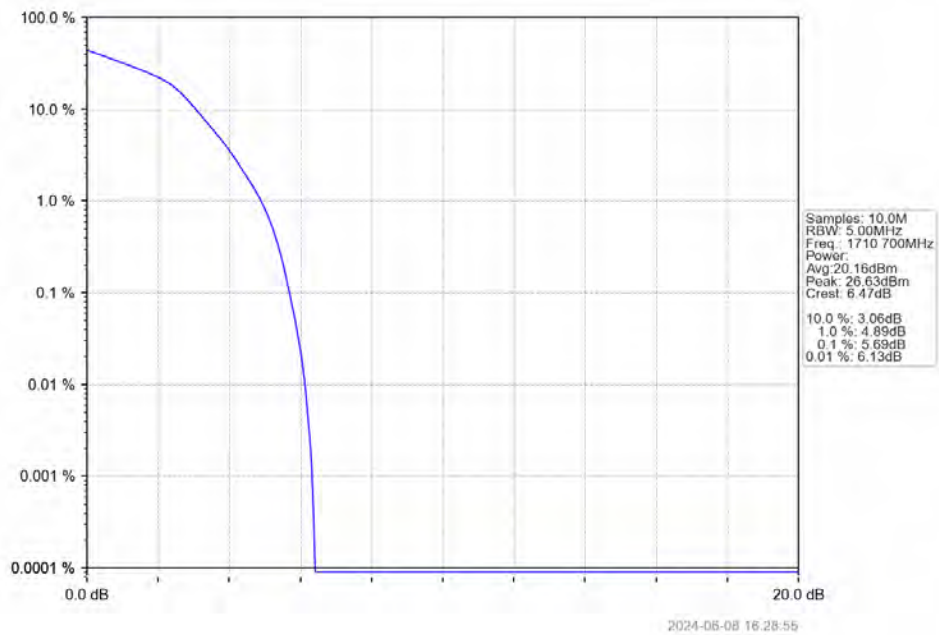
5.1.2 Test Graph



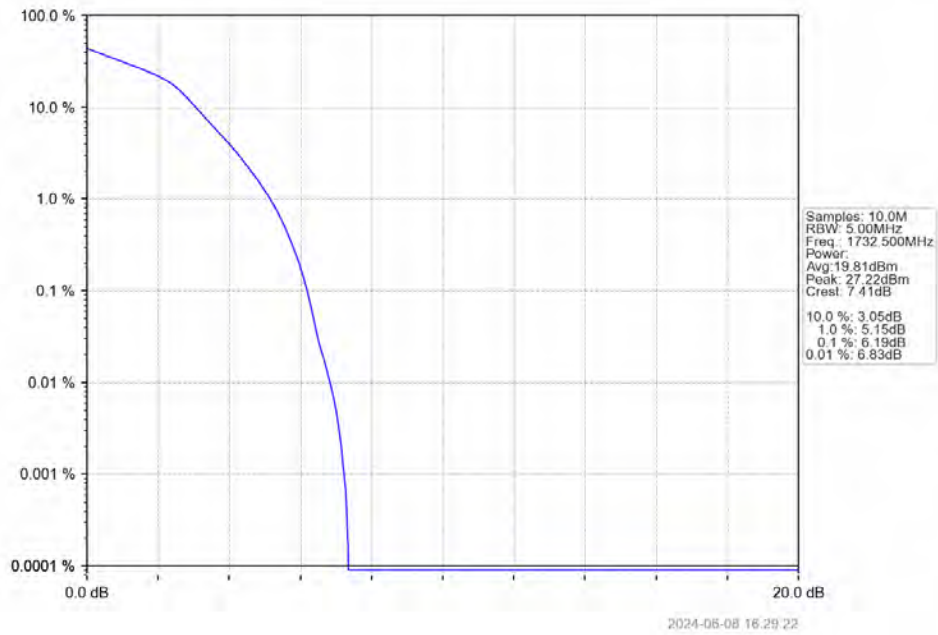
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



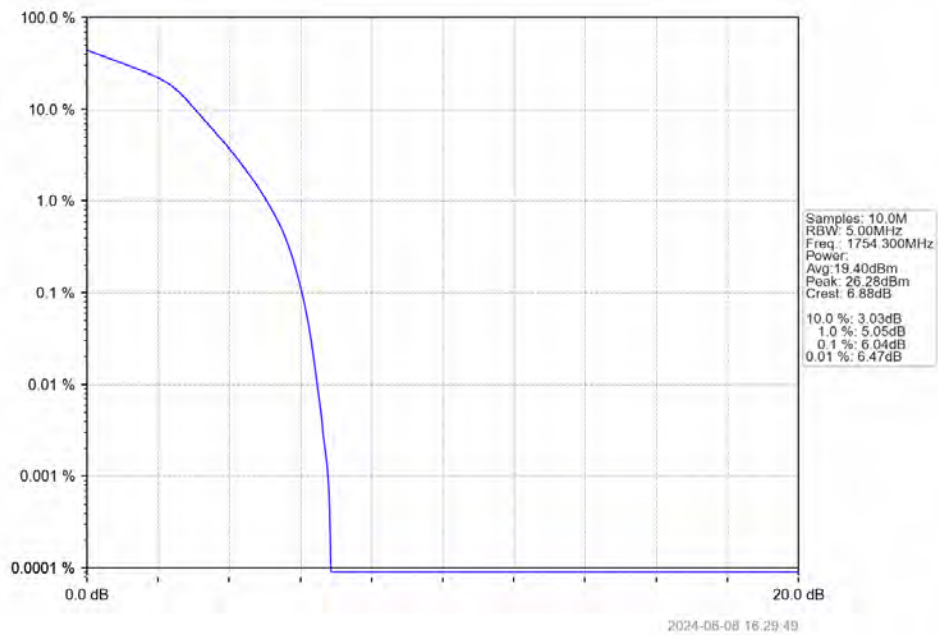
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV

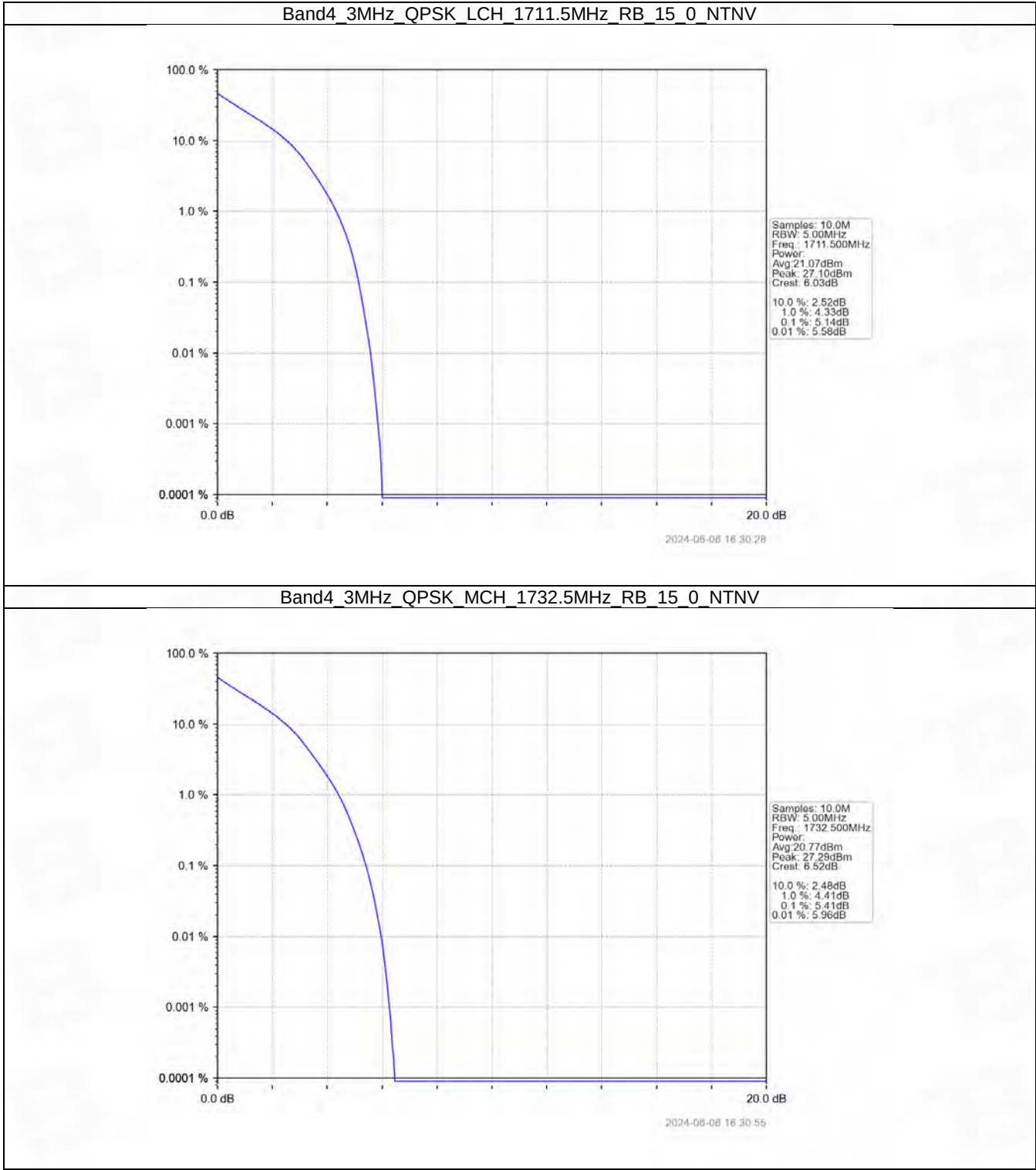


5.2 B4_3MHz

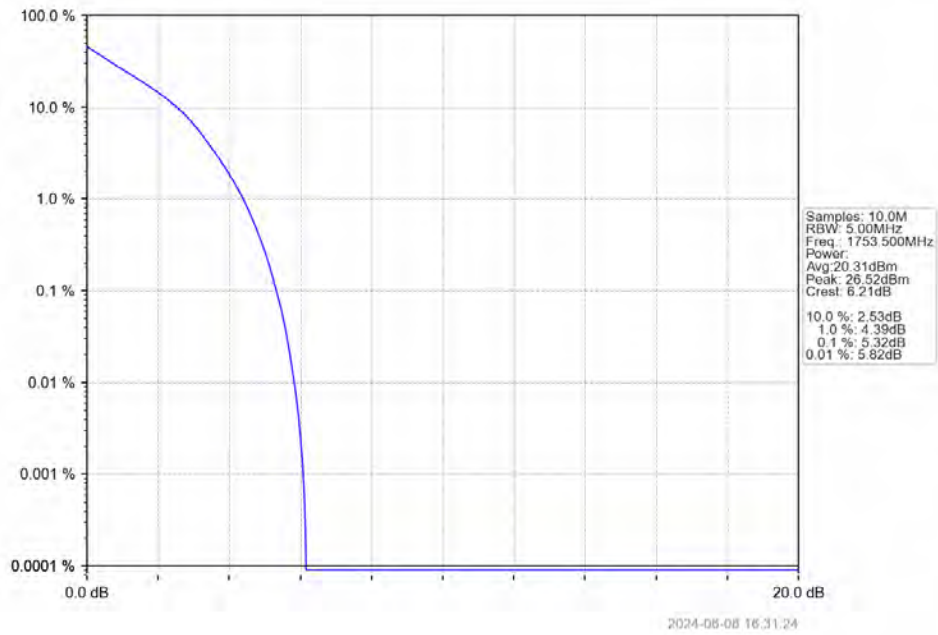
5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.14	<=13	Pass
	1732.5	15	0	5.41	<=13	Pass
	1753.5	15	0	5.32	<=13	Pass
16QAM	1711.5	15	0	5.98	<=13	Pass
	1732.5	15	0	6.28	<=13	Pass
	1753.5	15	0	6.17	<=13	Pass

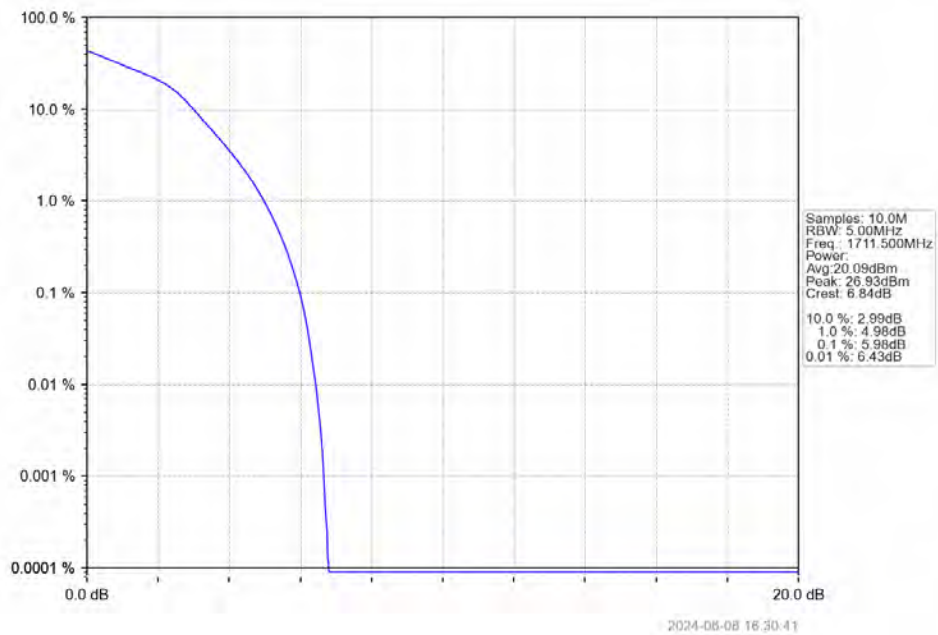
5.2.2 Test Graph



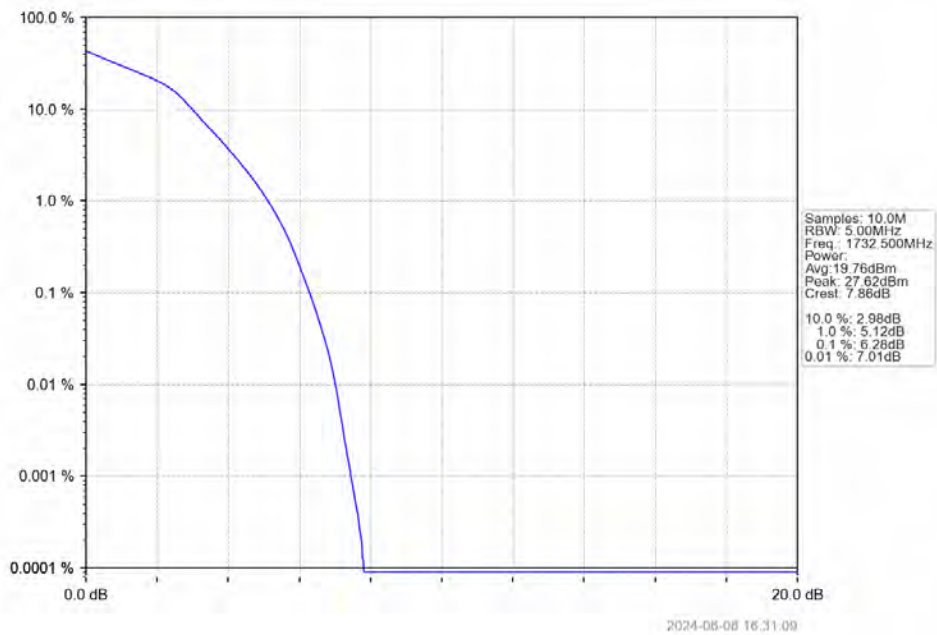
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



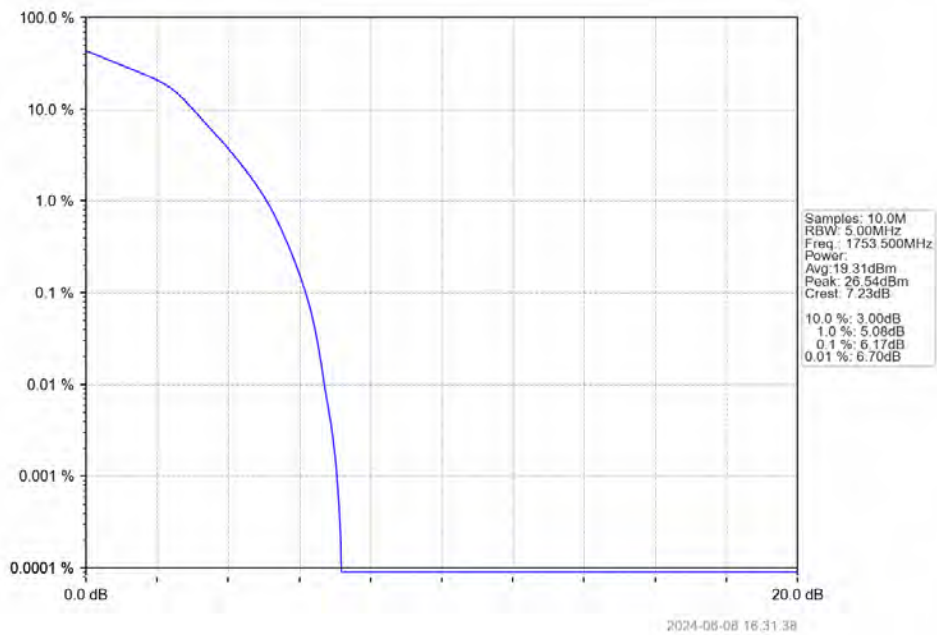
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTNV



Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV

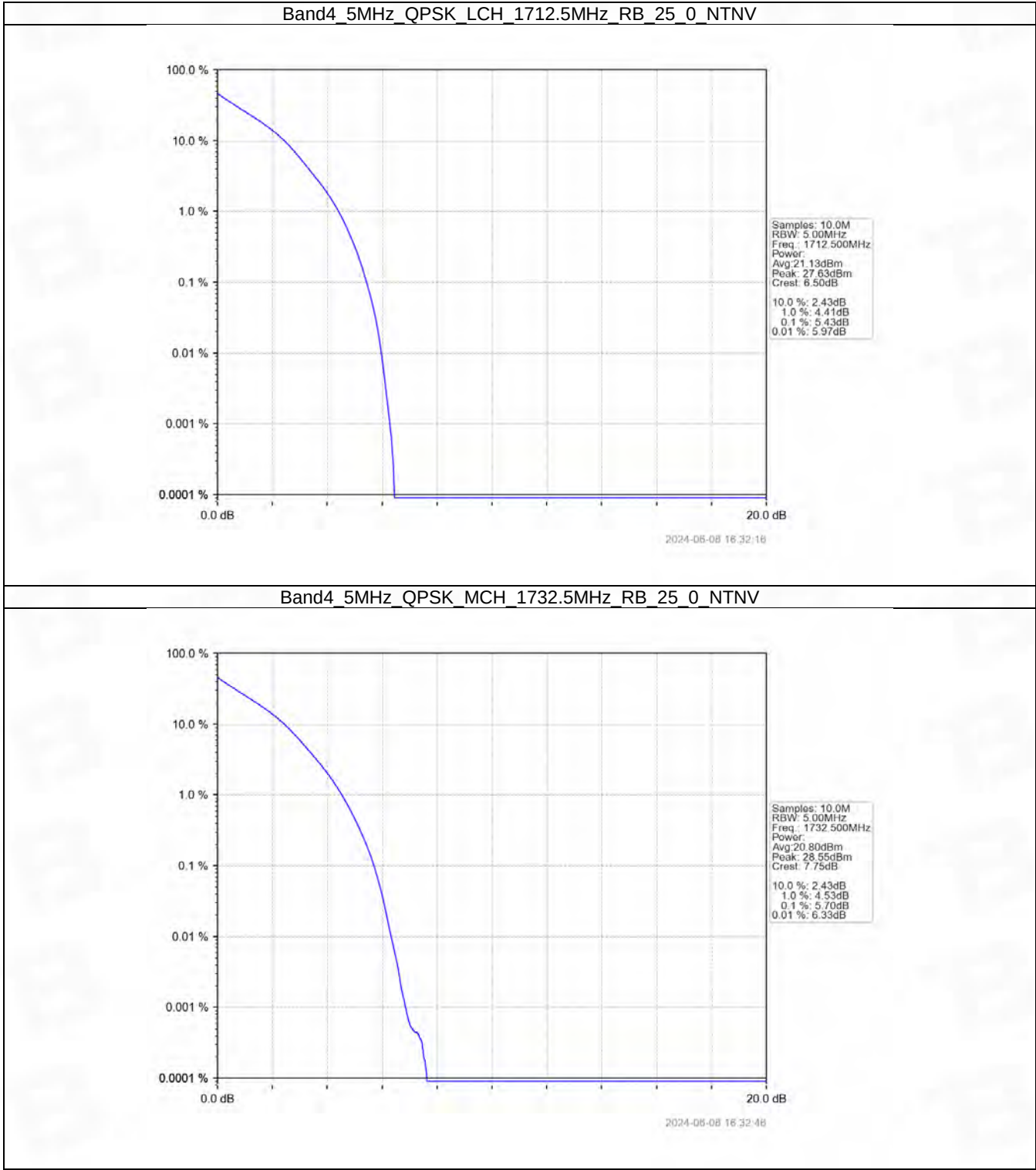


5.3 B4_5MHz

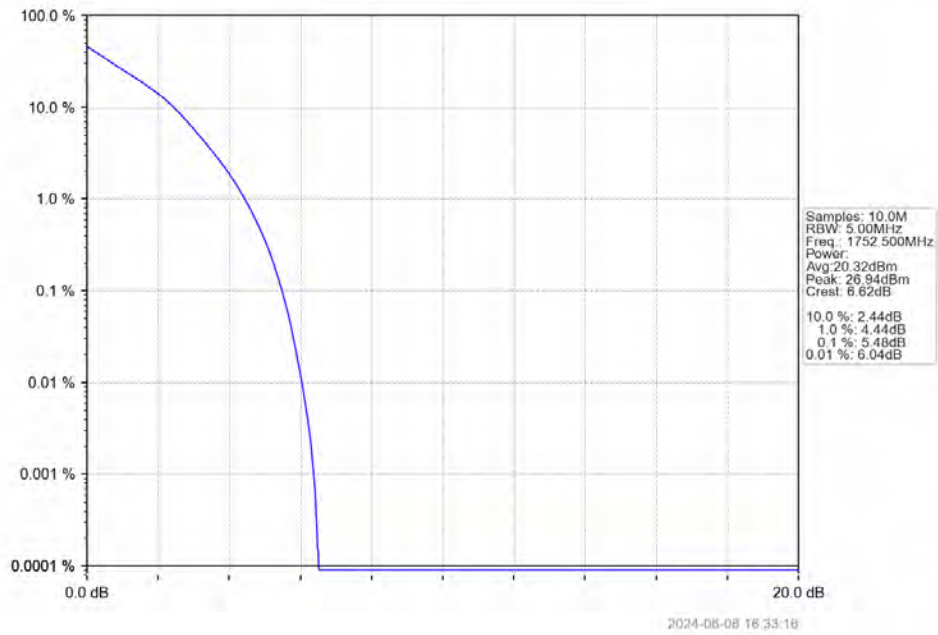
5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.43	<=13	Pass
	1732.5	25	0	5.70	<=13	Pass
	1752.5	25	0	5.48	<=13	Pass
16QAM	1712.5	25	0	6.18	<=13	Pass
	1732.5	25	0	6.42	<=13	Pass
	1752.5	25	0	6.19	<=13	Pass

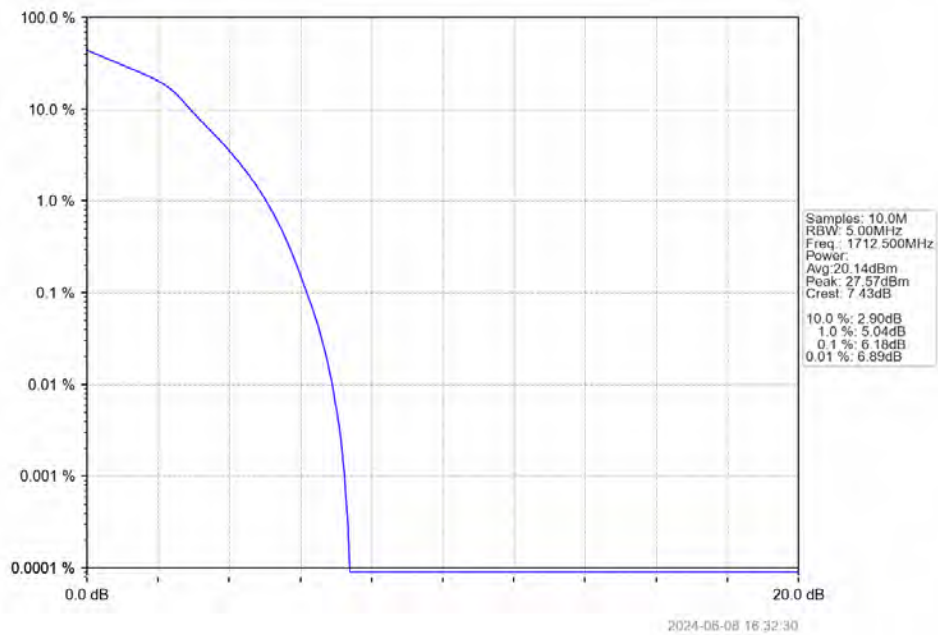
5.3.2 Test Graph



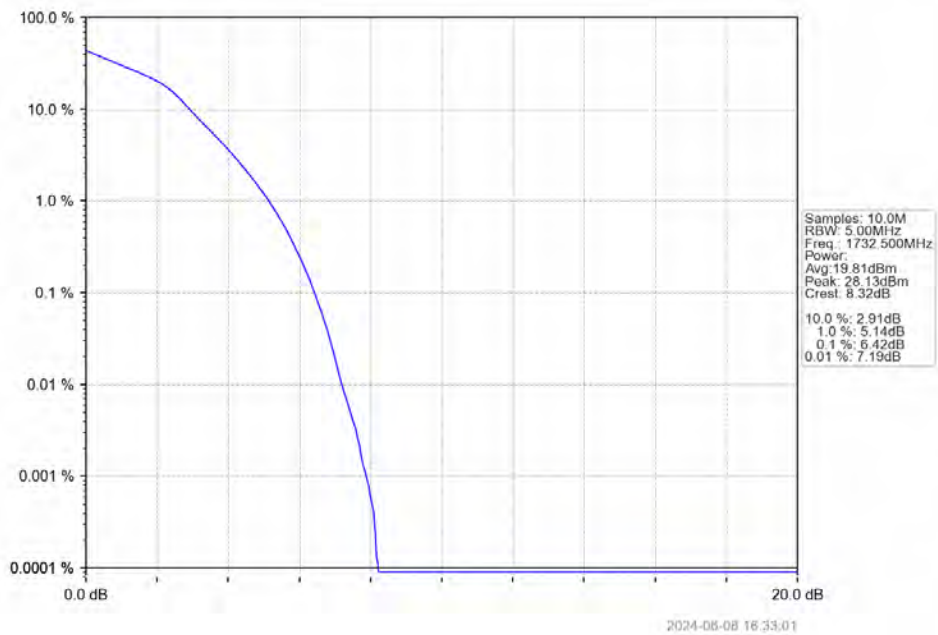
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTNV



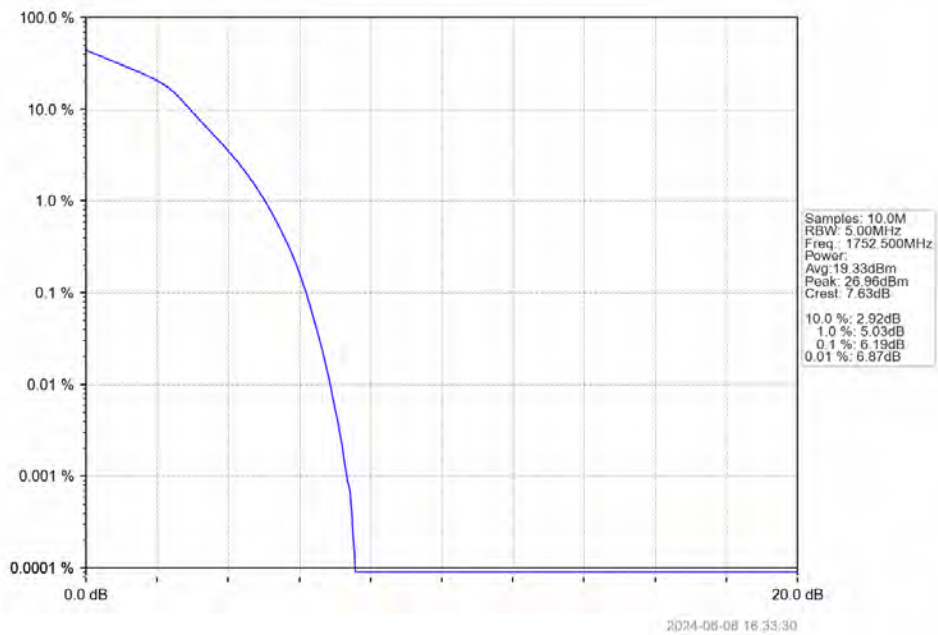
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTNV



Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV

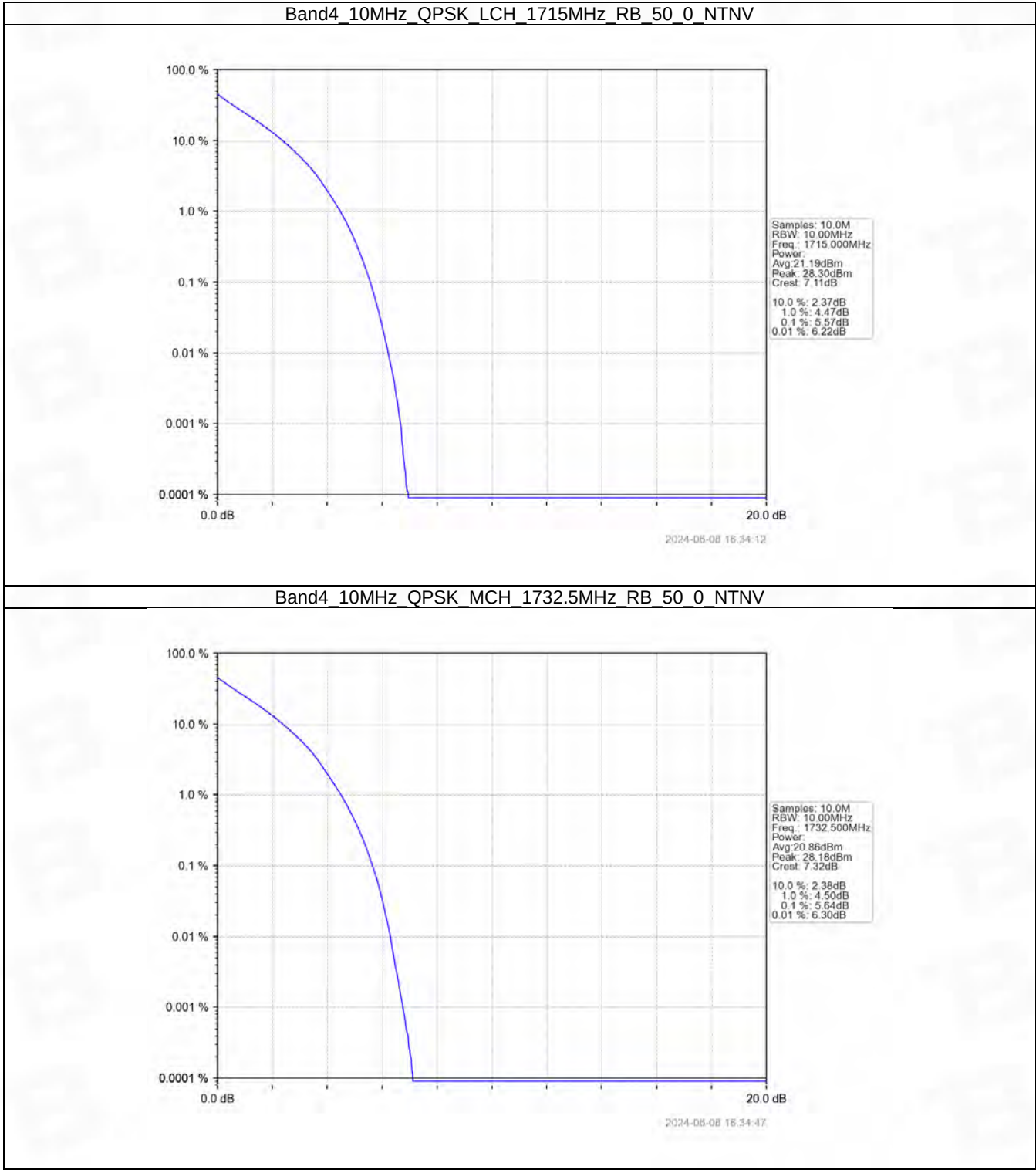


5.4 B4_10MHz

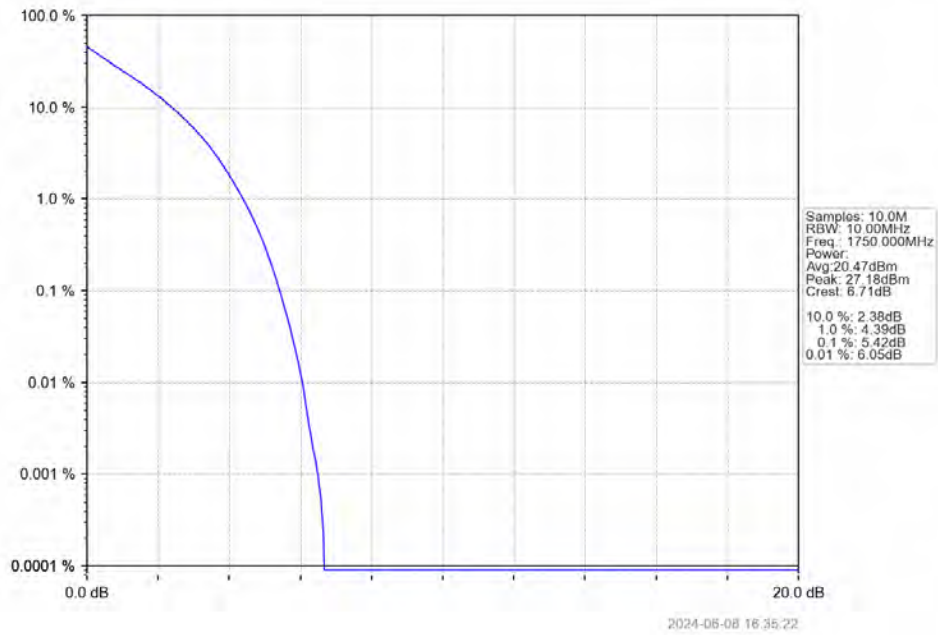
5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.57	<=13	Pass
	1732.5	50	0	5.64	<=13	Pass
	1750	50	0	5.42	<=13	Pass
16QAM	1715	50	0	6.35	<=13	Pass
	1732.5	50	0	6.45	<=13	Pass
	1750	50	0	6.19	<=13	Pass

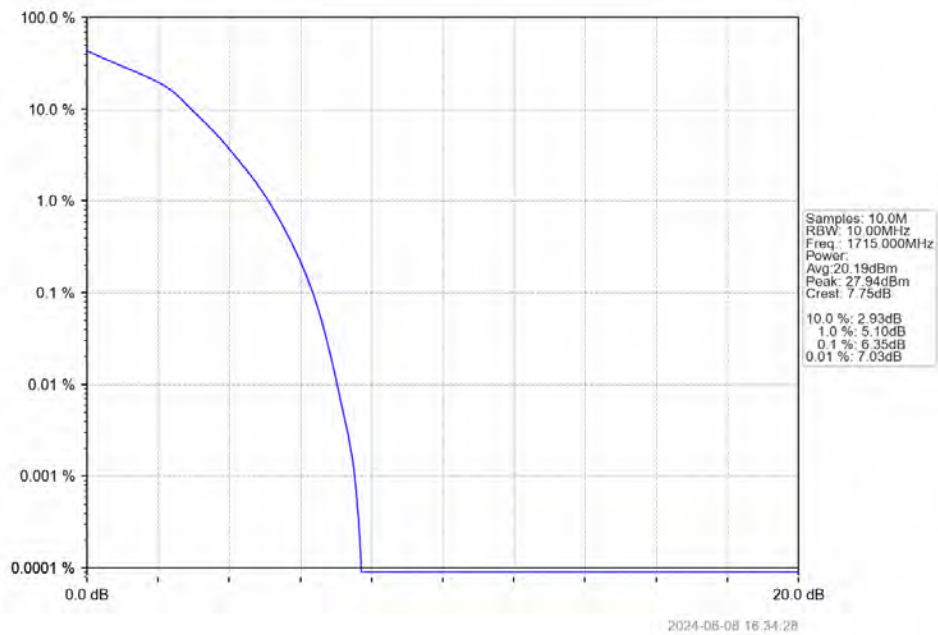
5.4.2 Test Graph



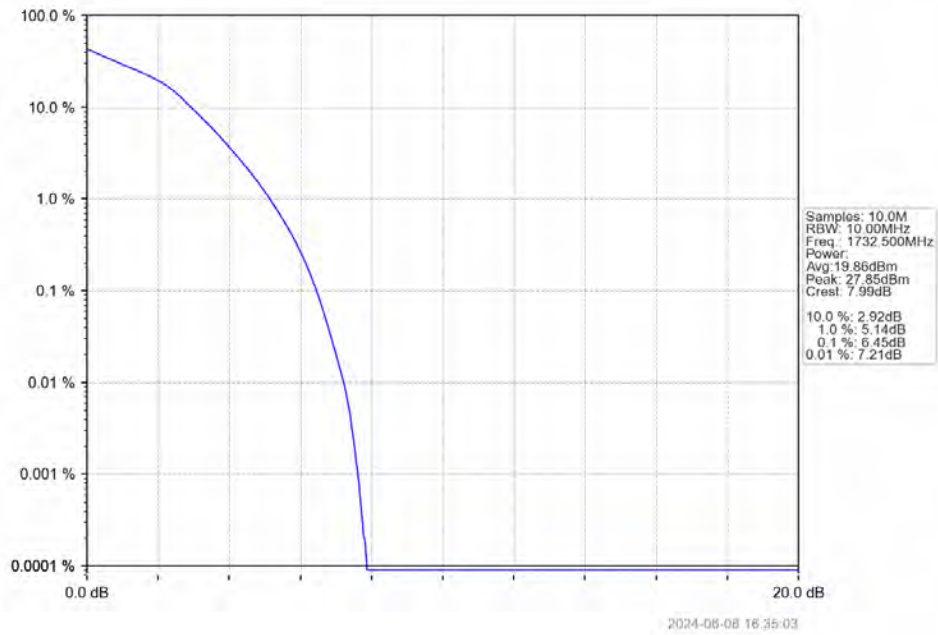
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



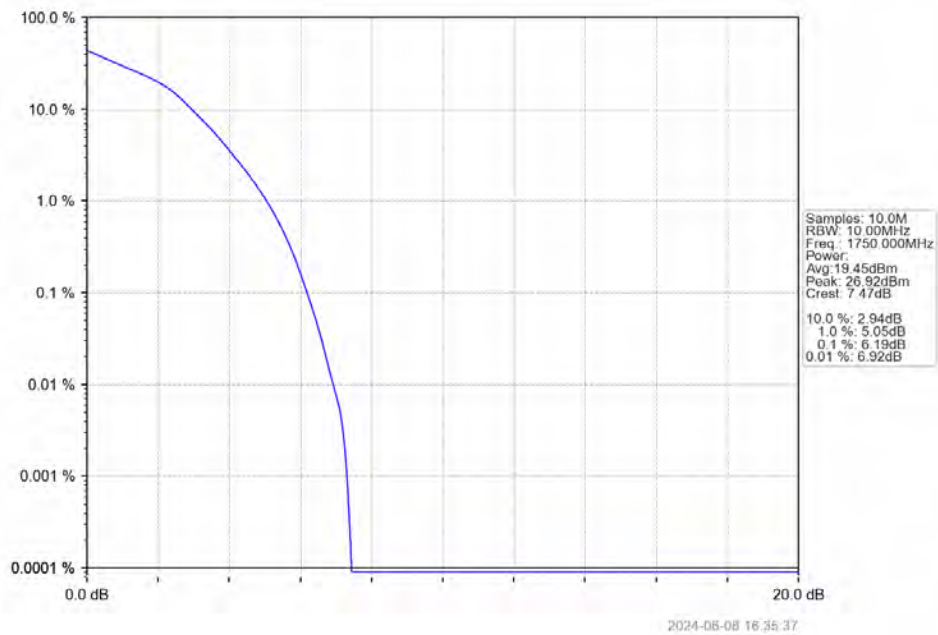
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTN



Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTNV

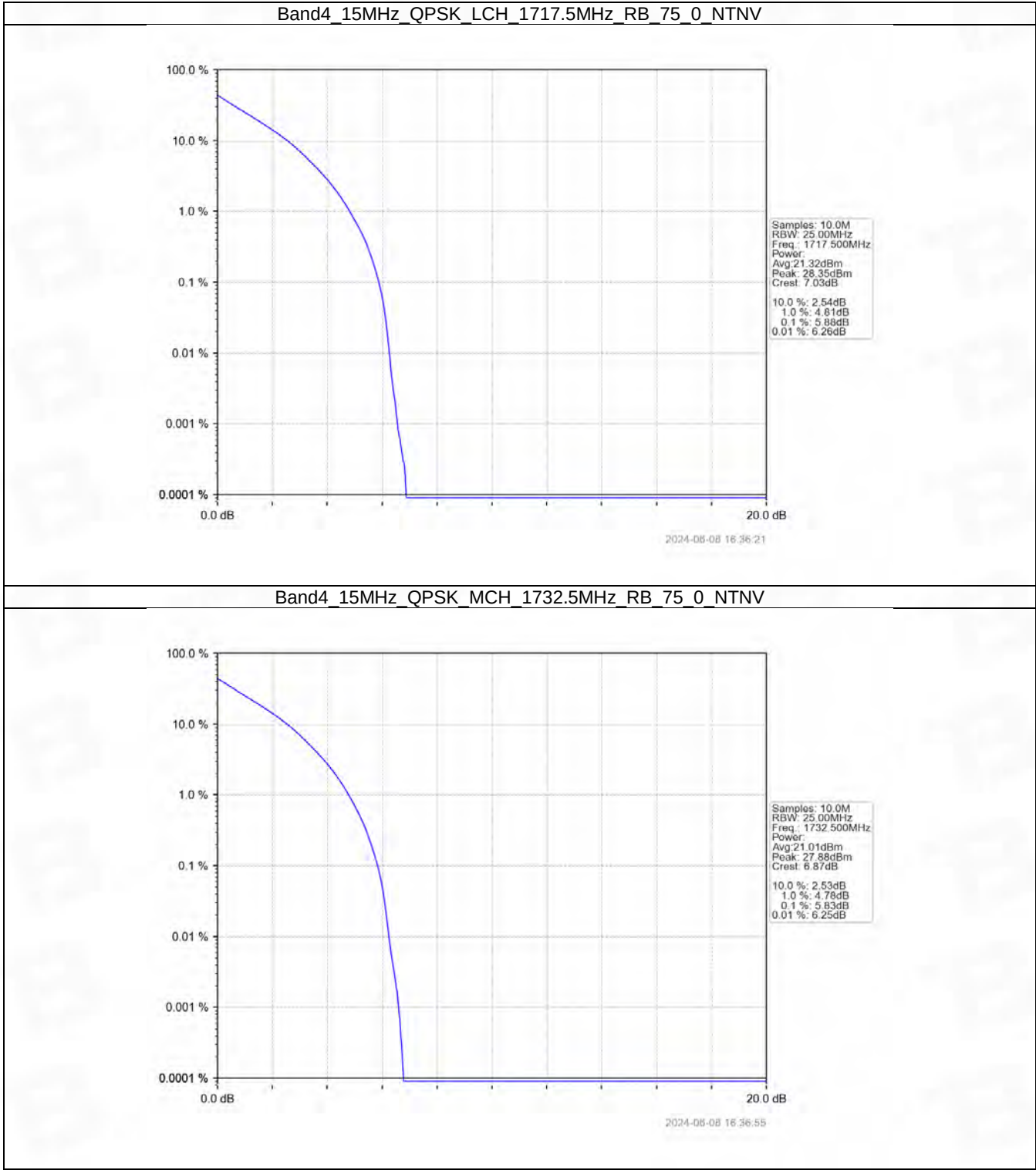


5.5 B4_15MHz

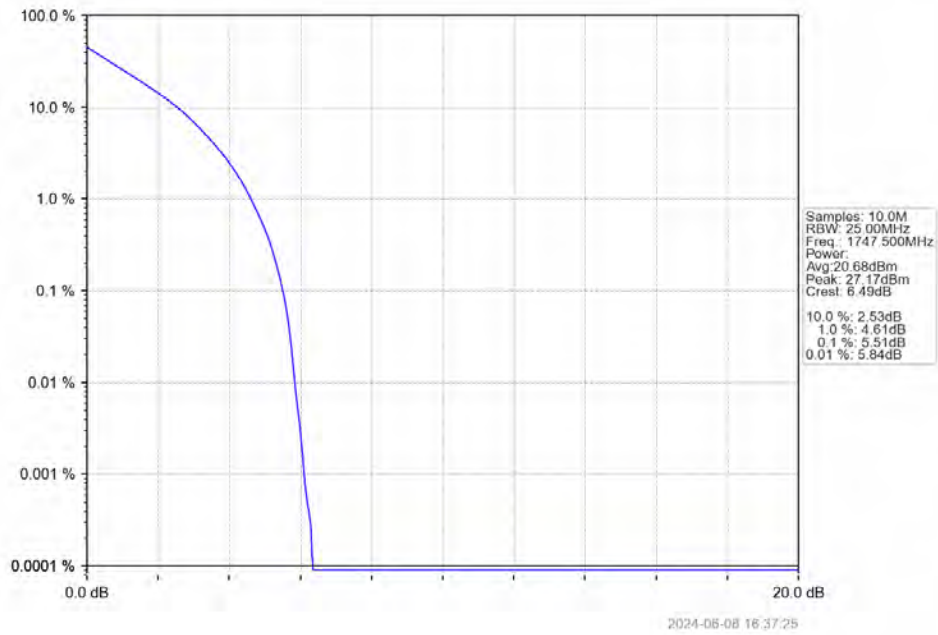
5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.88	<=13	Pass
	1732.5	75	0	5.83	<=13	Pass
	1747.5	75	0	5.51	<=13	Pass
16QAM	1717.5	75	0	6.47	<=13	Pass
	1732.5	75	0	6.46	<=13	Pass
	1747.5	75	0	6.18	<=13	Pass

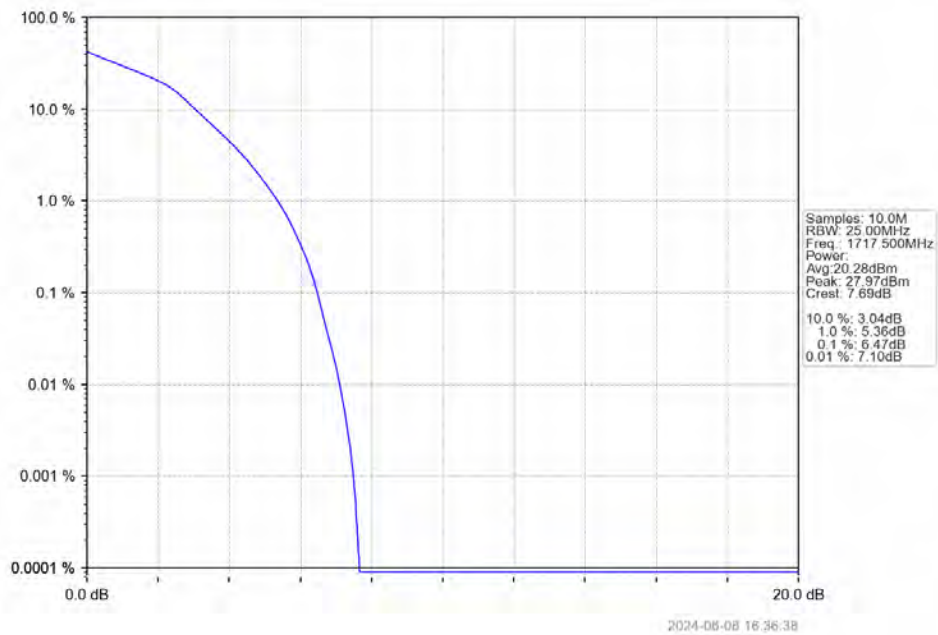
5.5.2 Test Graph



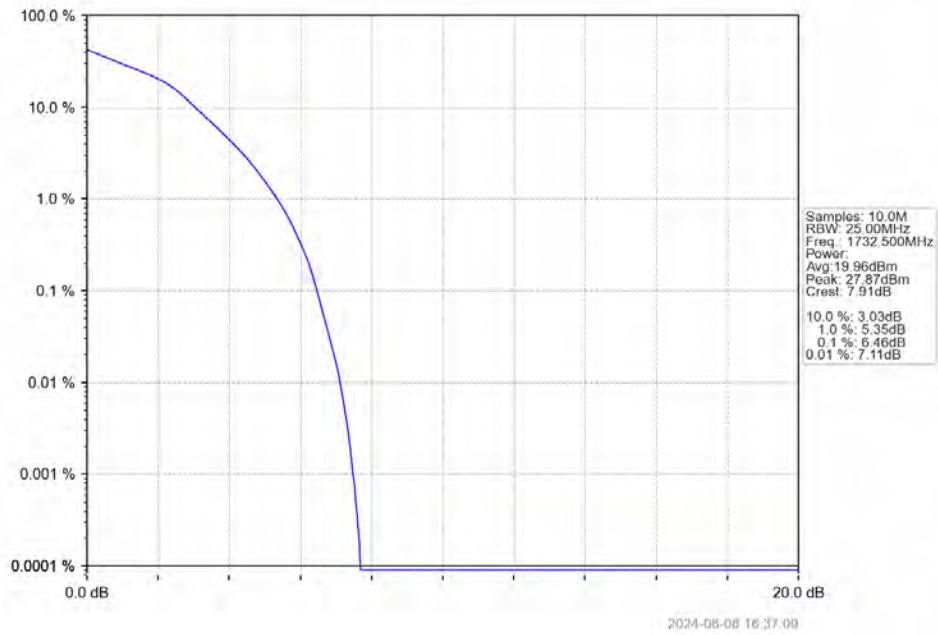
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV



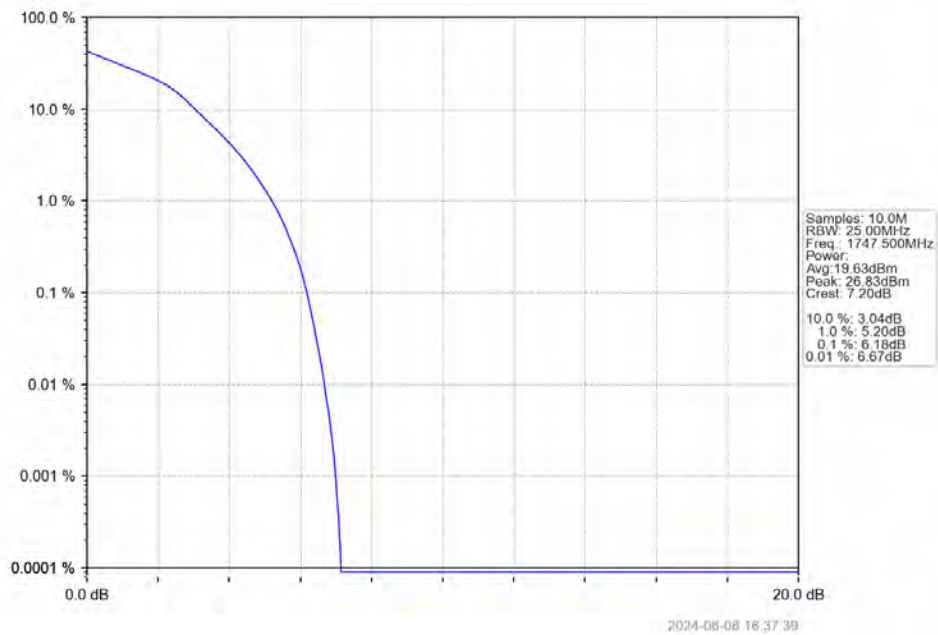
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTNV



Band4 15MHz 16QAM MCH 1732.5MHz RB 75.0 NTNV



Band4 15MHz 16QAM HCH 1747.5MHz RB 75.0 NTNV

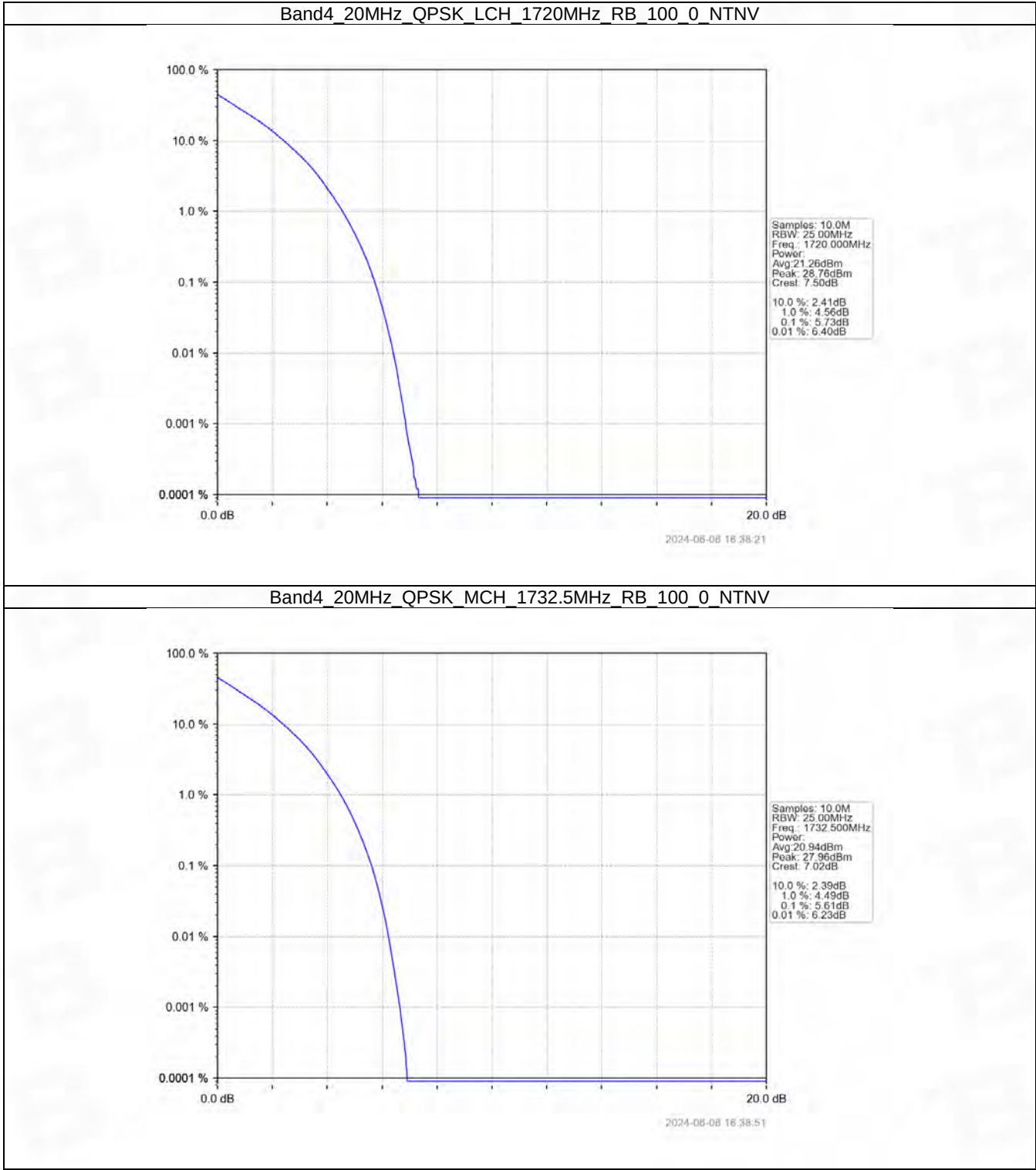


5.6 B4_20MHz

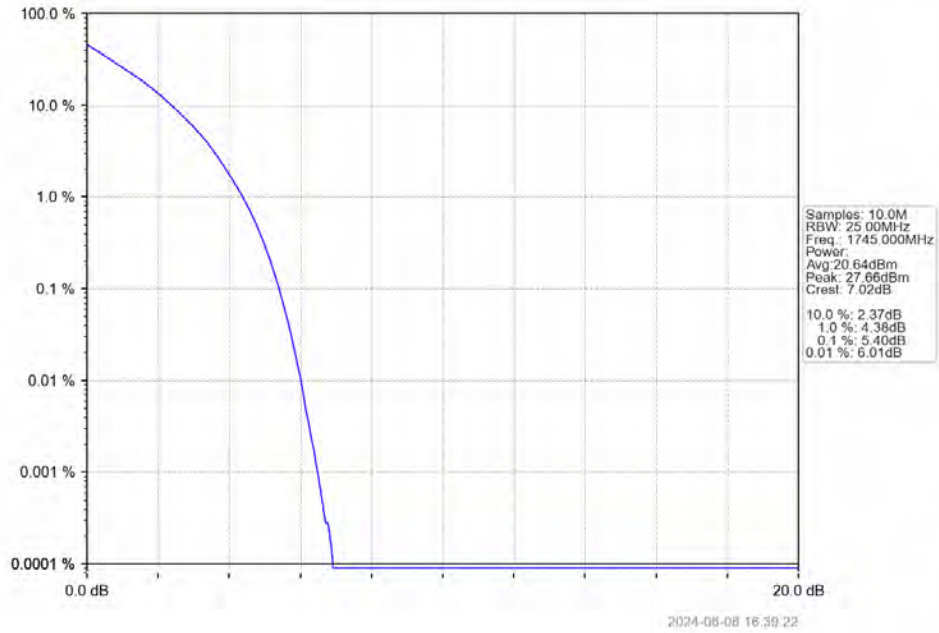
5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.73	<=13	Pass
	1732.5	100	0	5.61	<=13	Pass
	1745	100	0	5.40	<=13	Pass
16QAM	1720	100	0	6.46	<=13	Pass
	1732.5	100	0	6.40	<=13	Pass
	1745	100	0	6.21	<=13	Pass

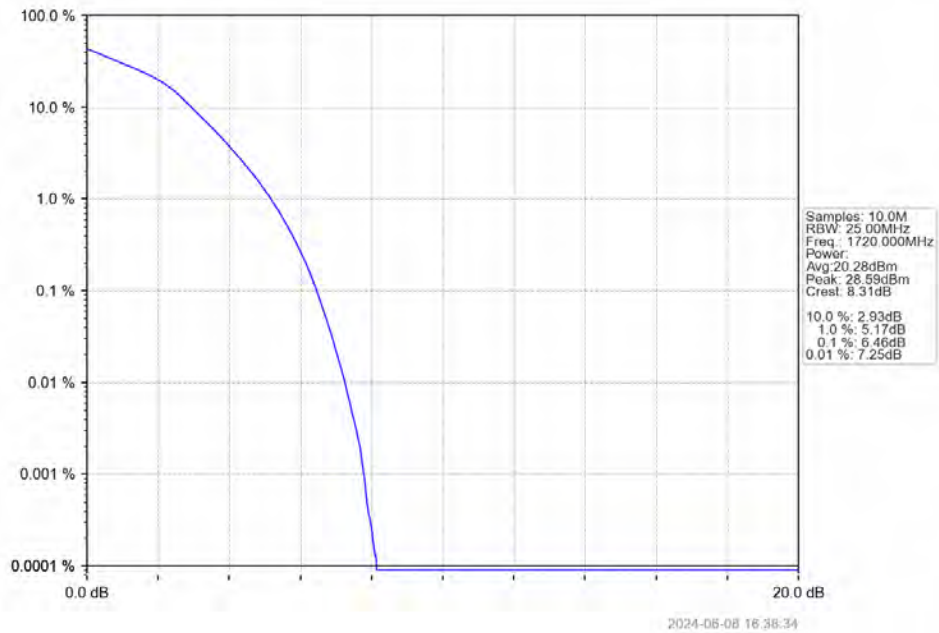
5.6.2 Test Graph



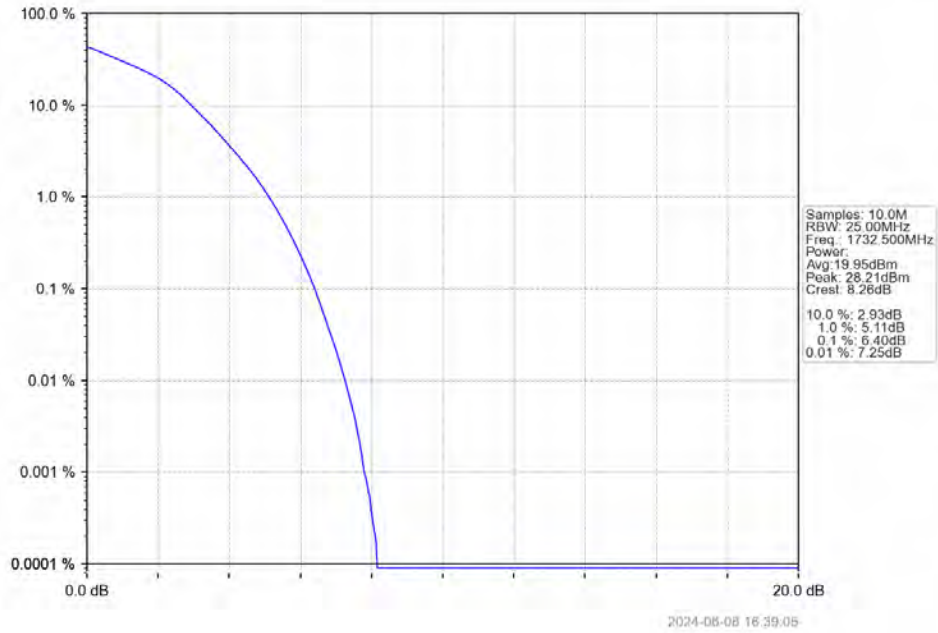
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



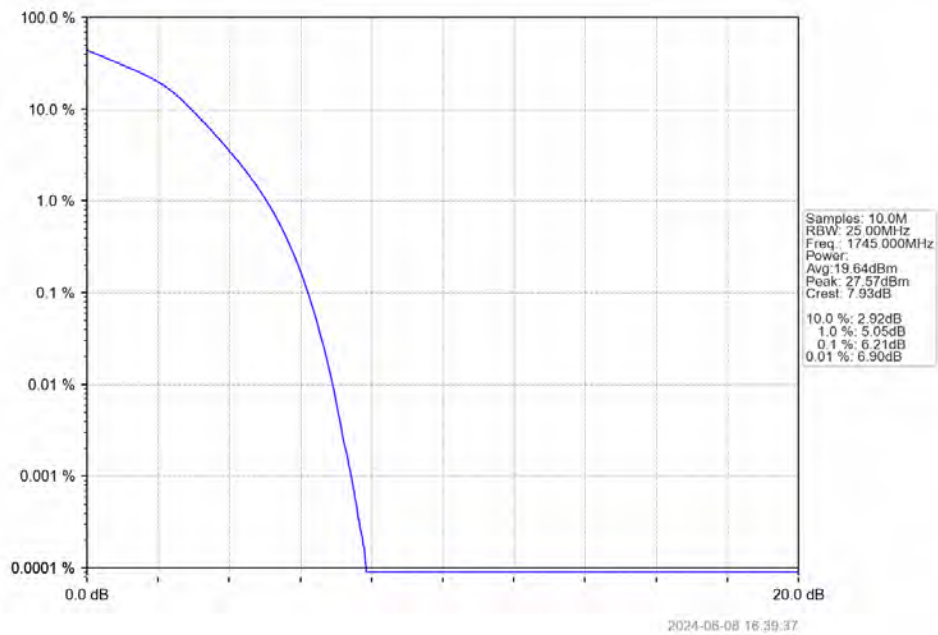
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



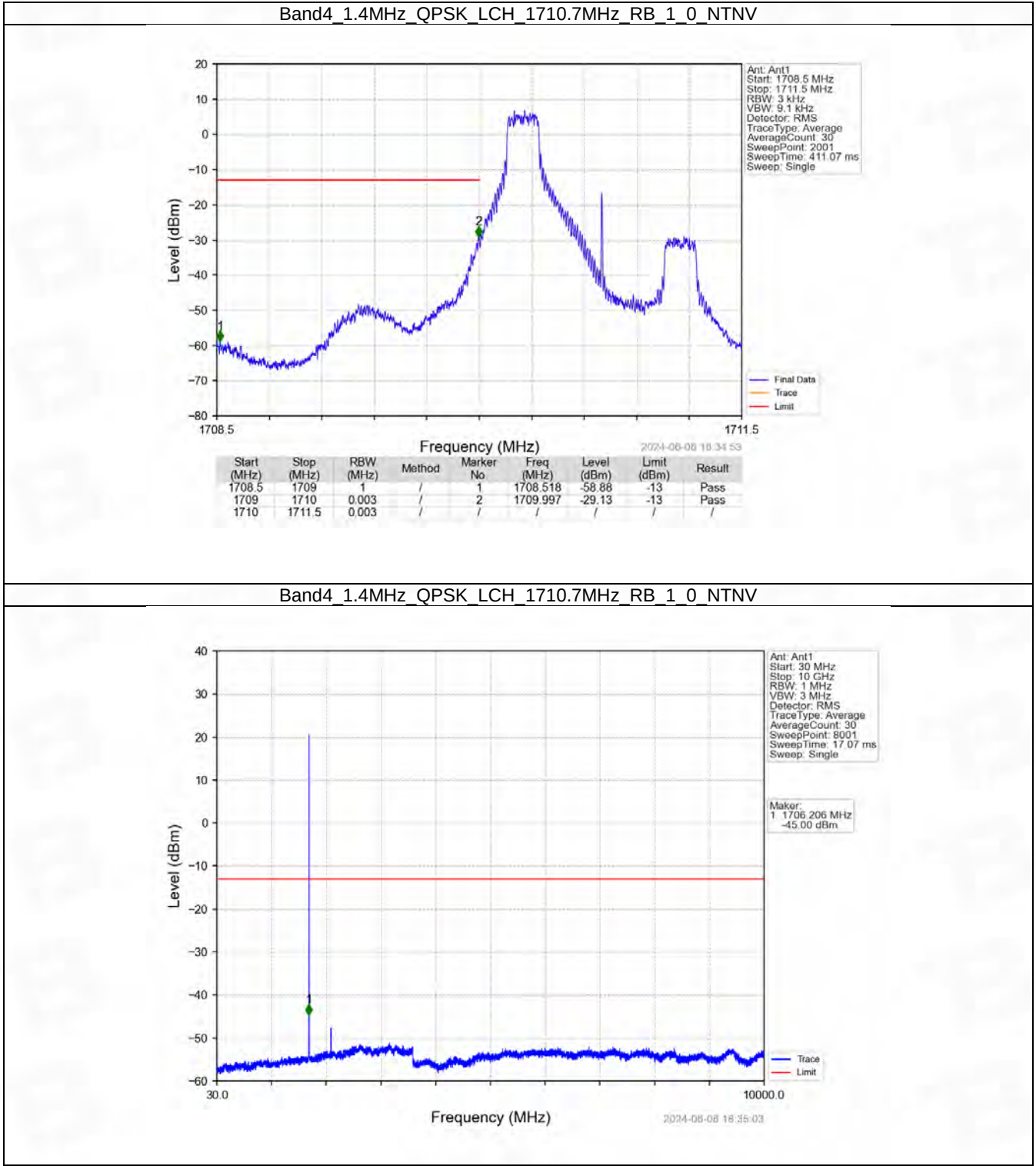
6. Spurious Emission

6.1 B4_1.4MHz

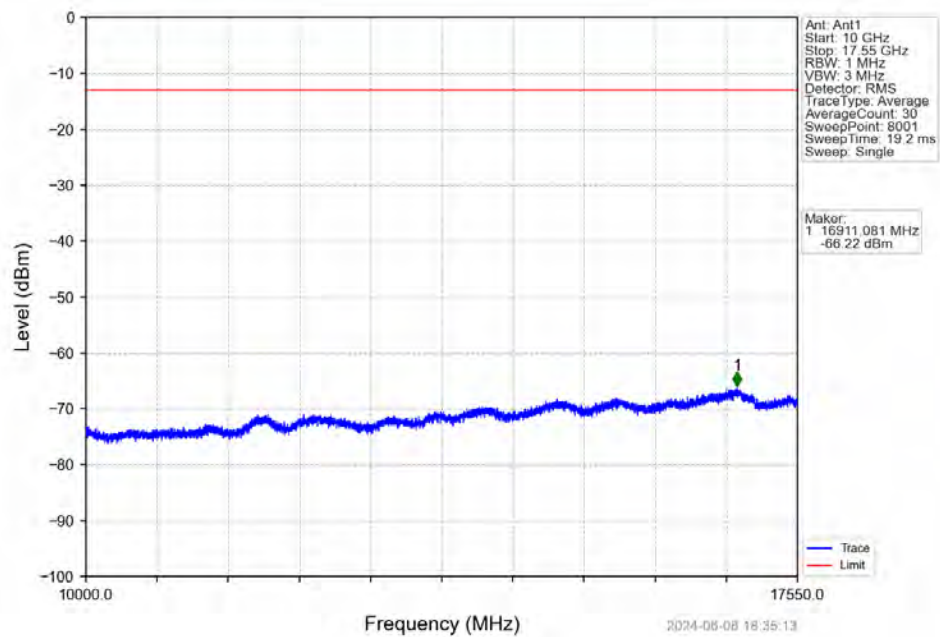
6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
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
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	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
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

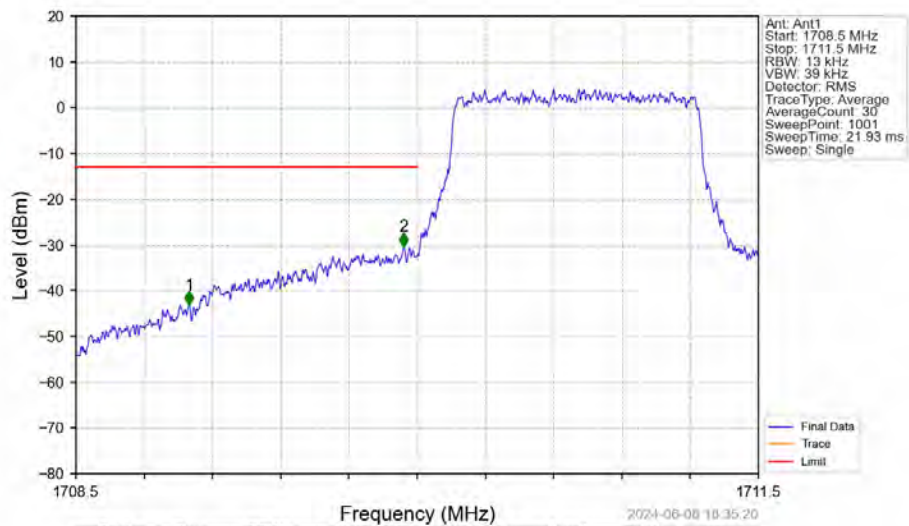
6.1.2 Test Graph



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV

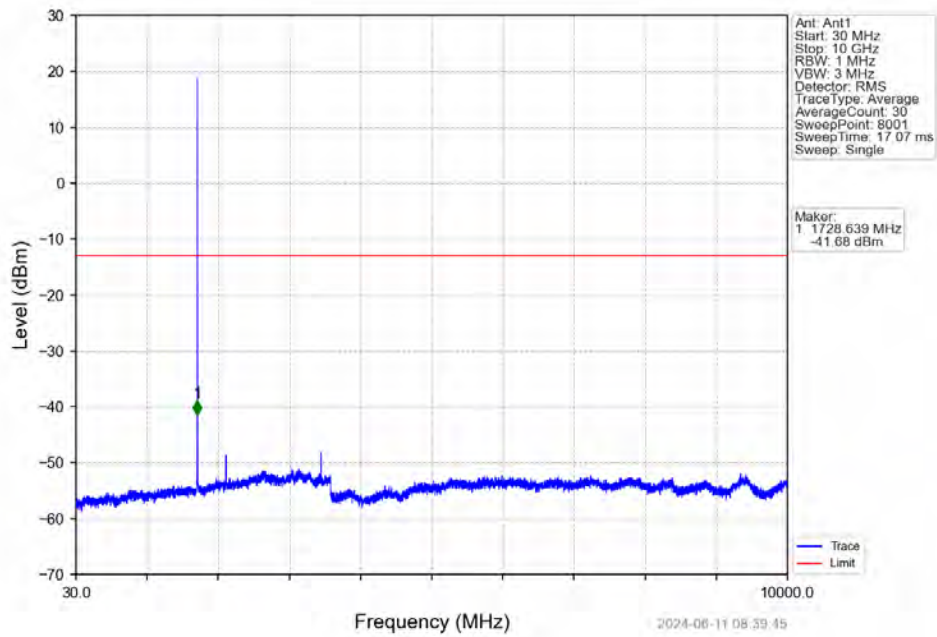


Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV

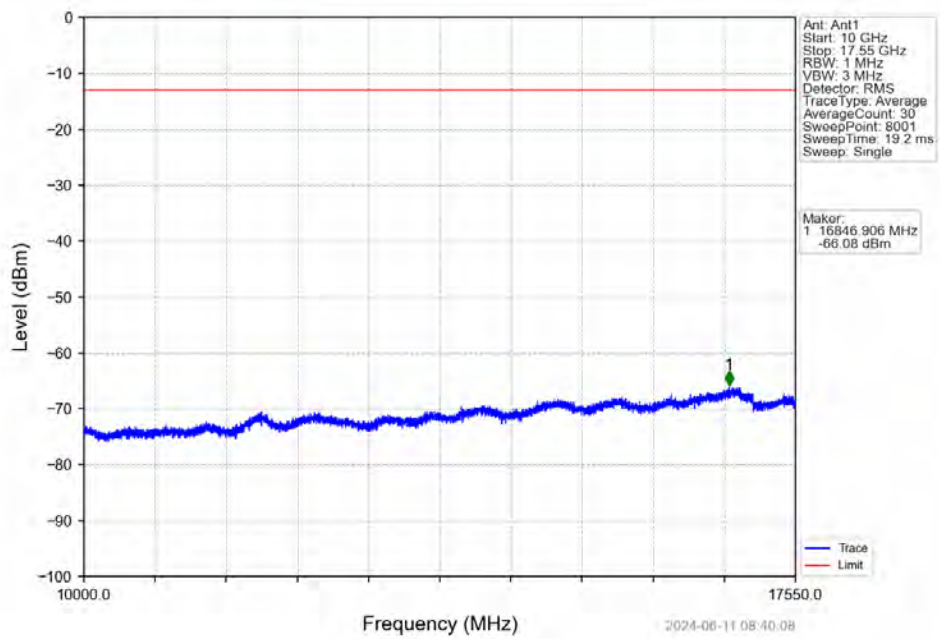


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.998	-43.10	-13	Pass
1709	1710	0.013	/	2	1709.940	-30.37	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/

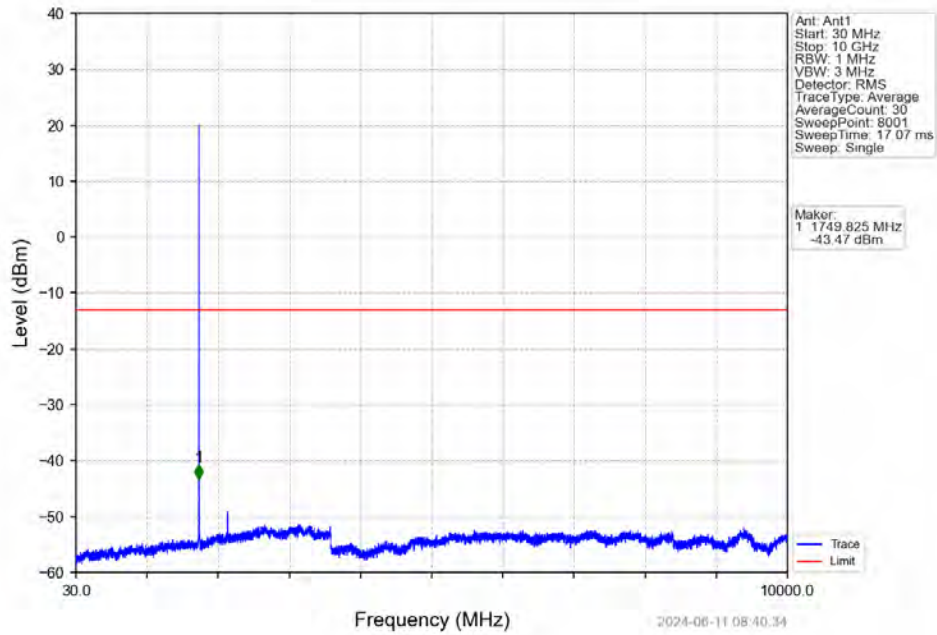
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



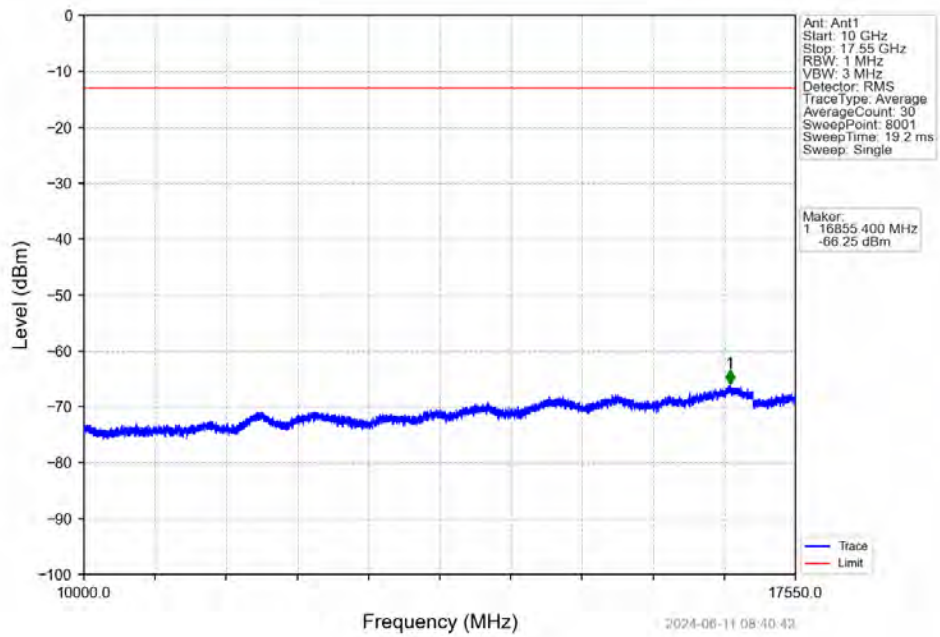
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



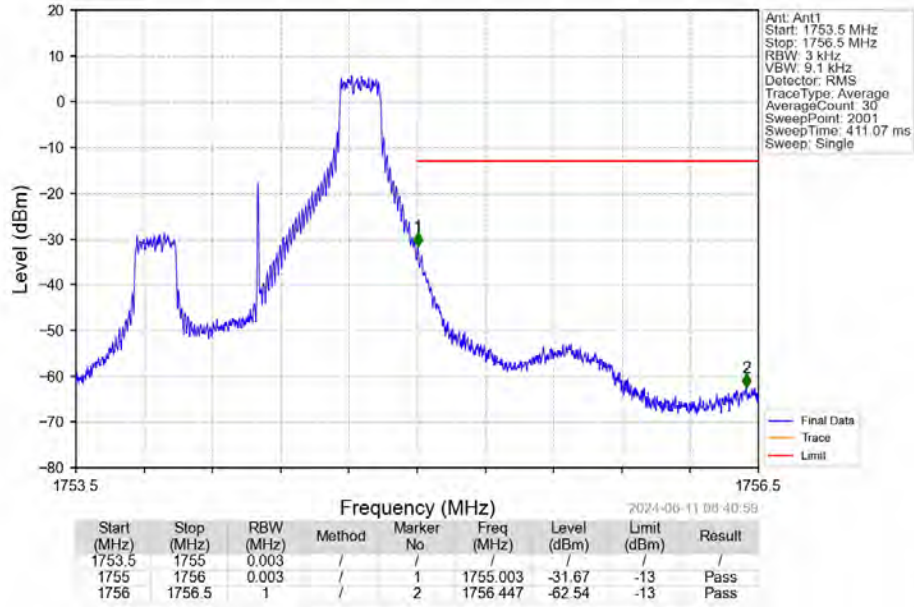
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



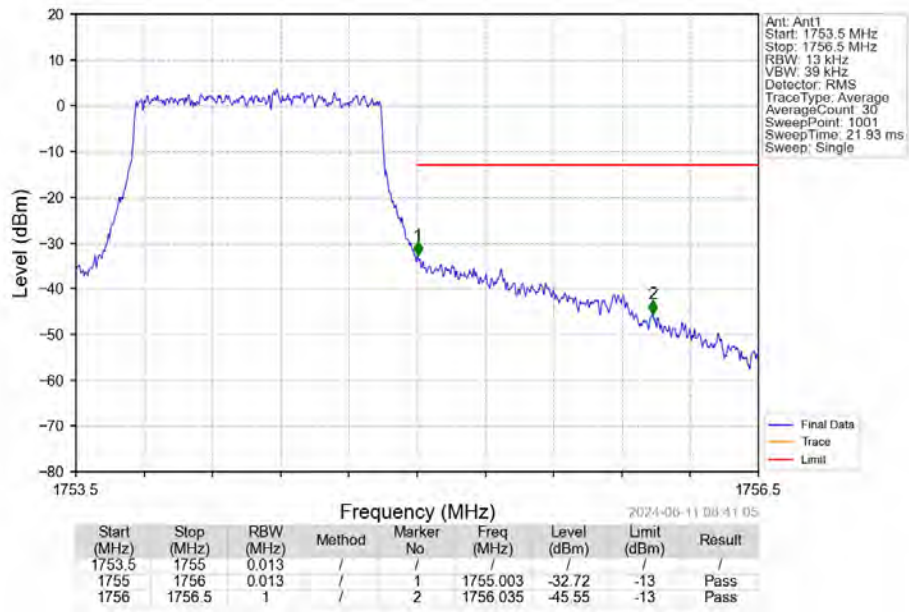
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



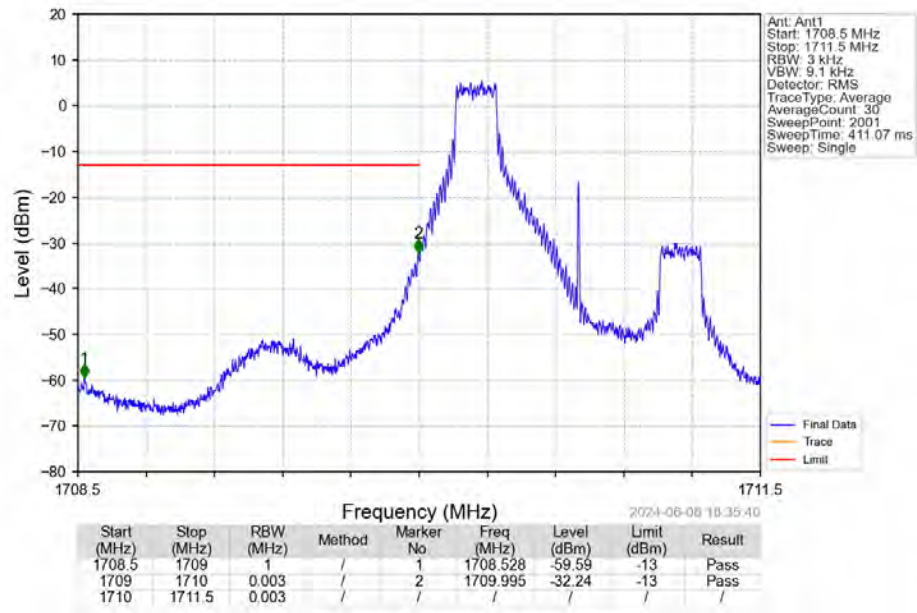
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTNV



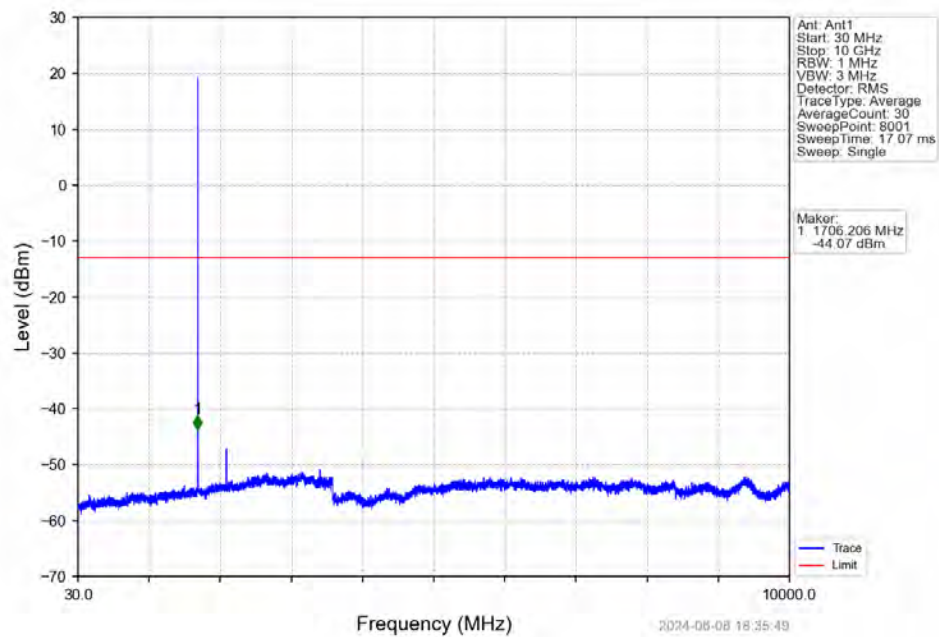
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



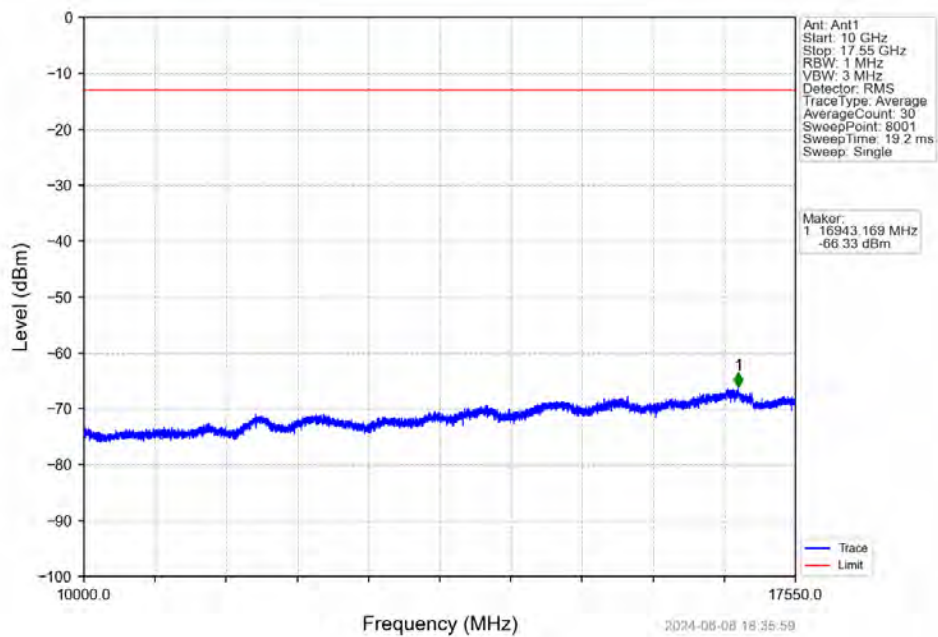
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTV



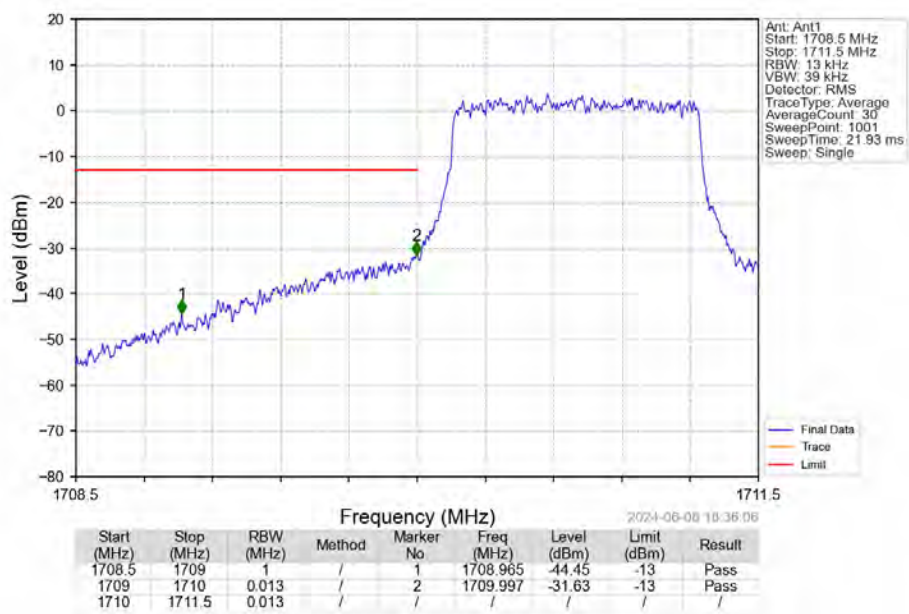
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTV



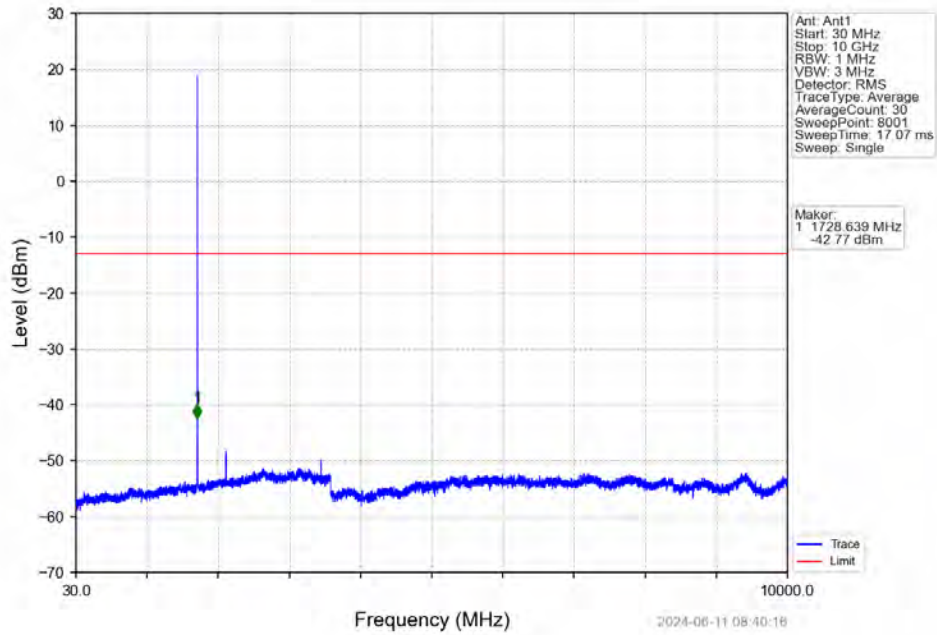
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



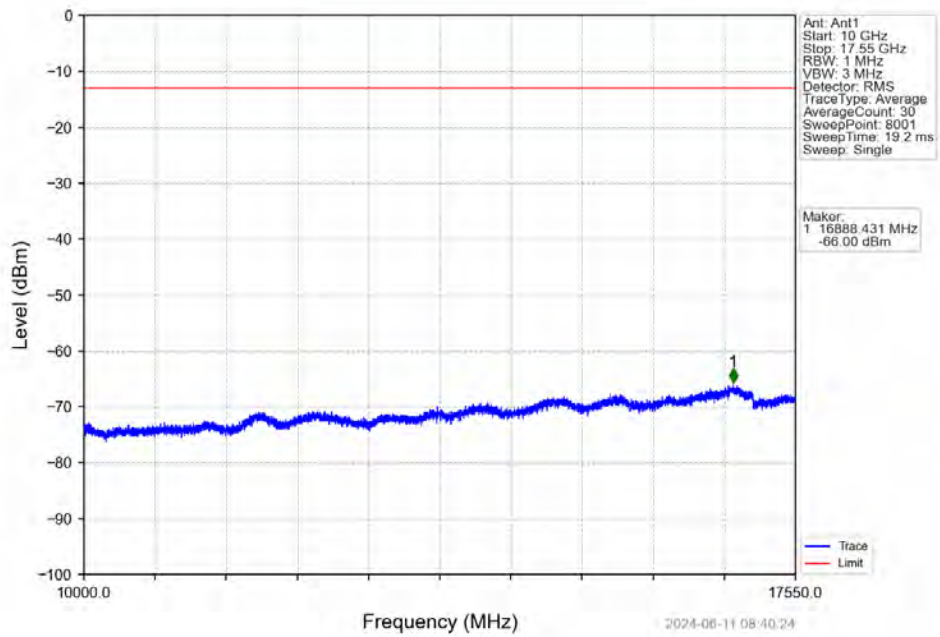
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



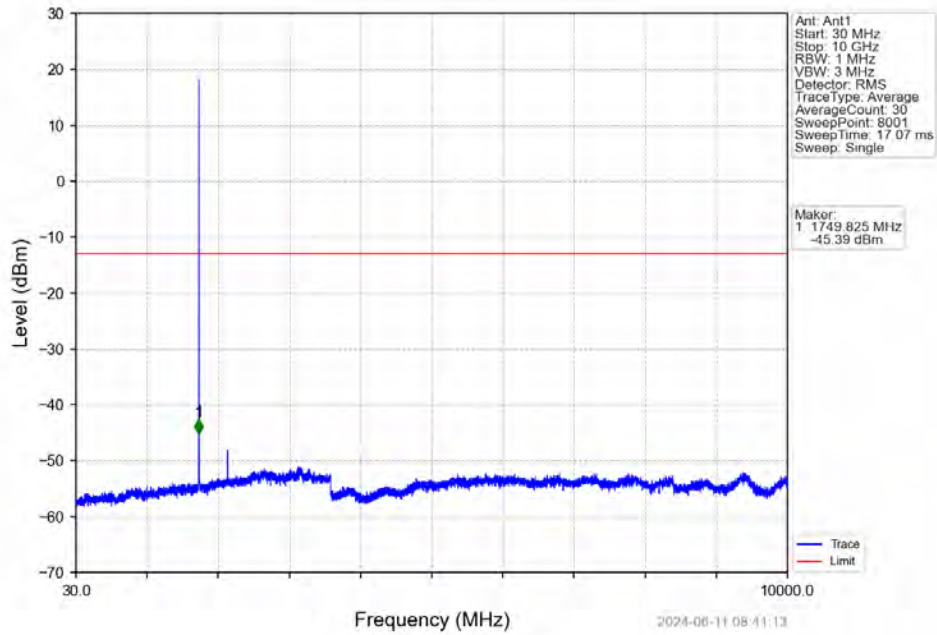
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



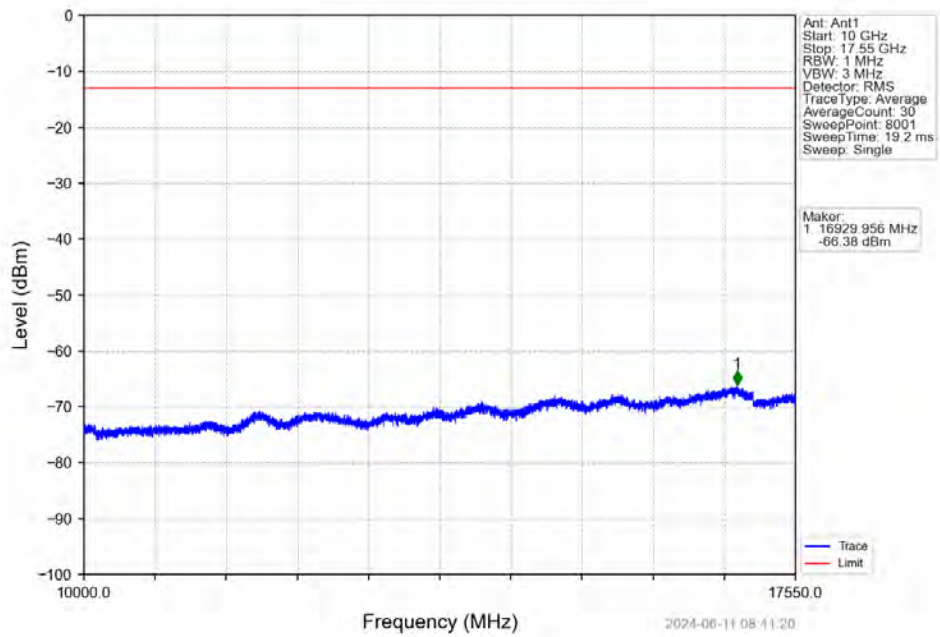
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



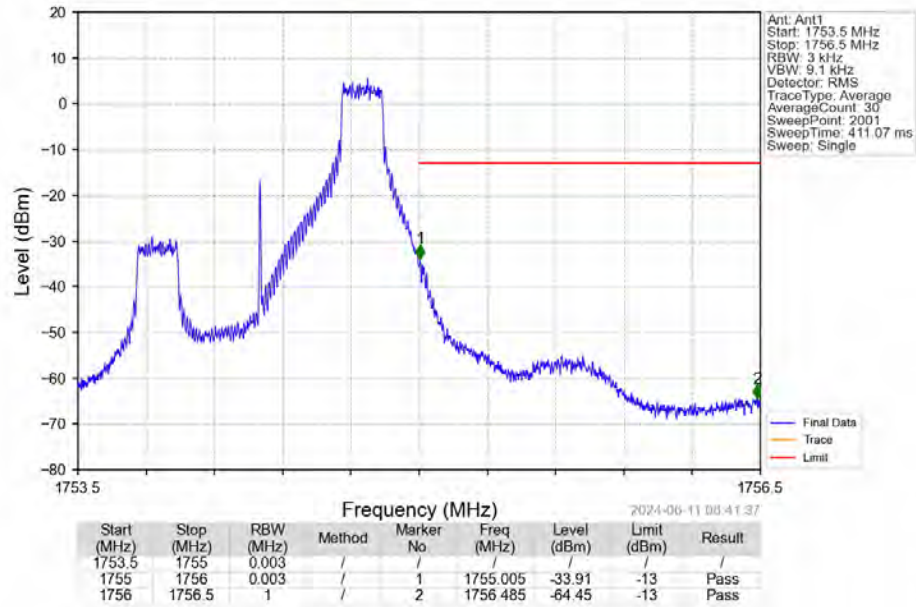
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTV



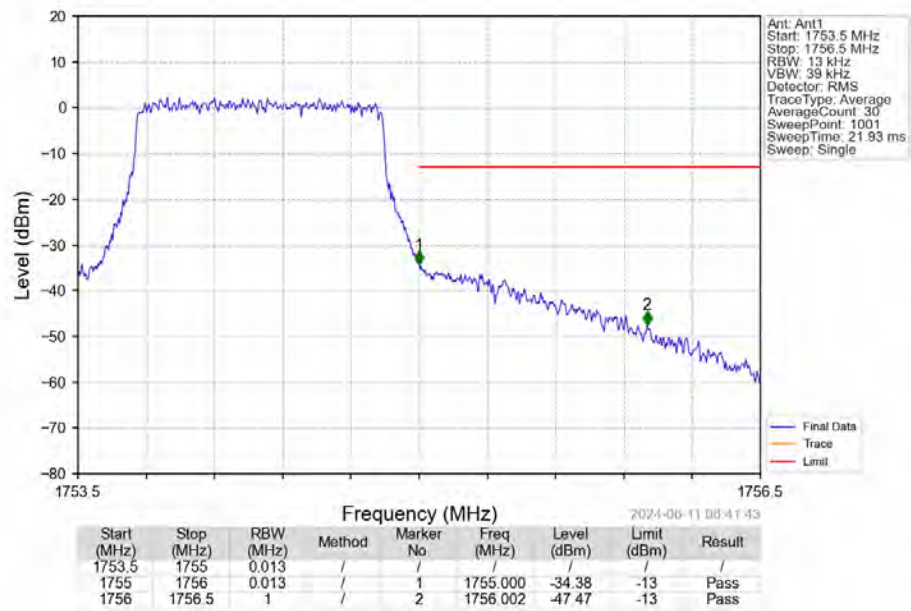
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 5 NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV

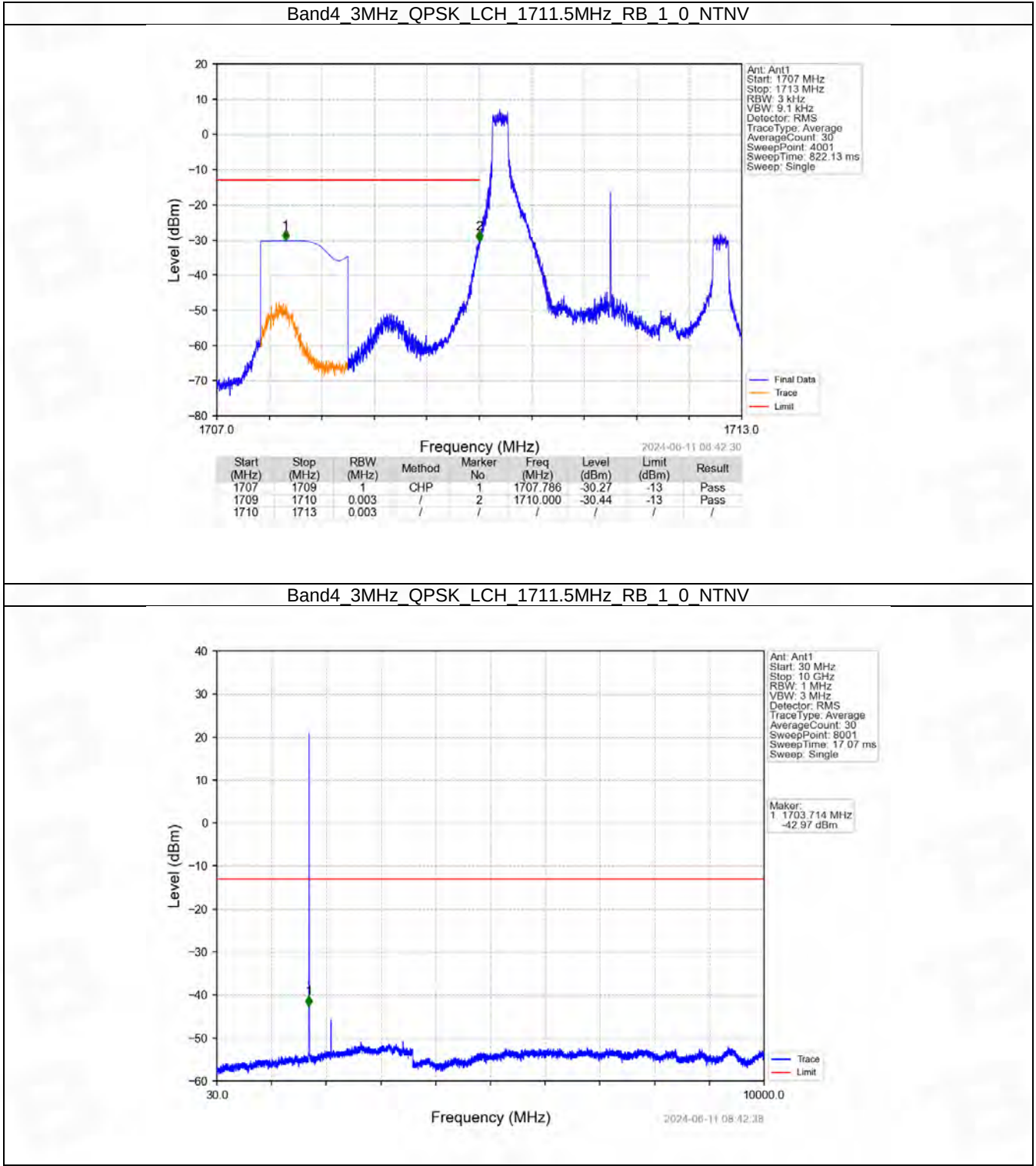


6.2 B4_3MHz

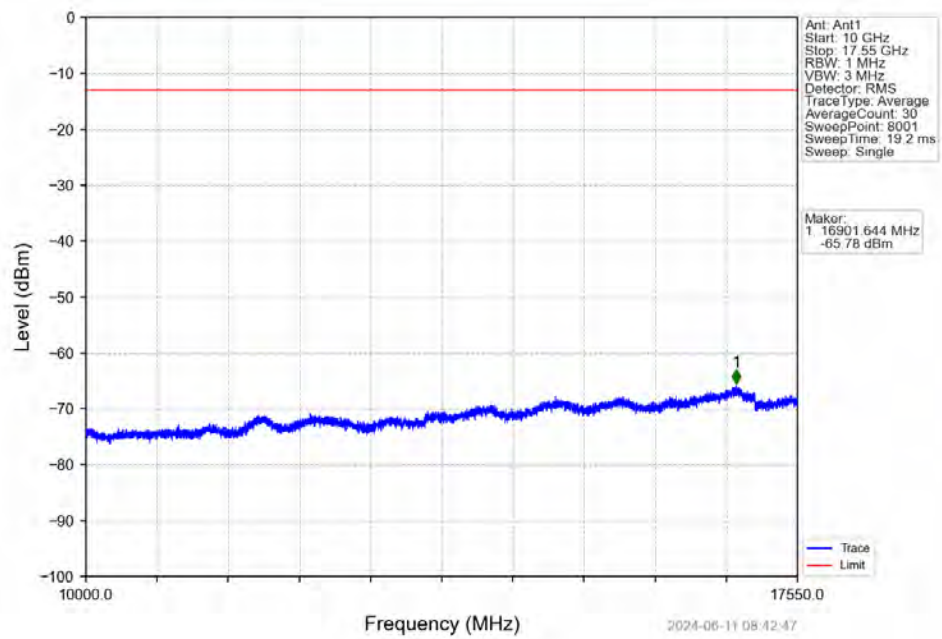
6.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
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
16QAM	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

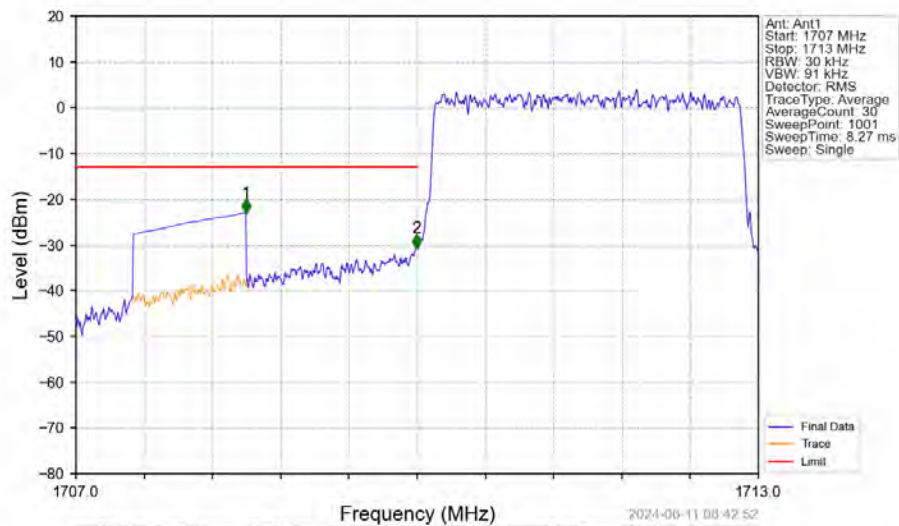
6.2.2 Test Graph



Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTNV

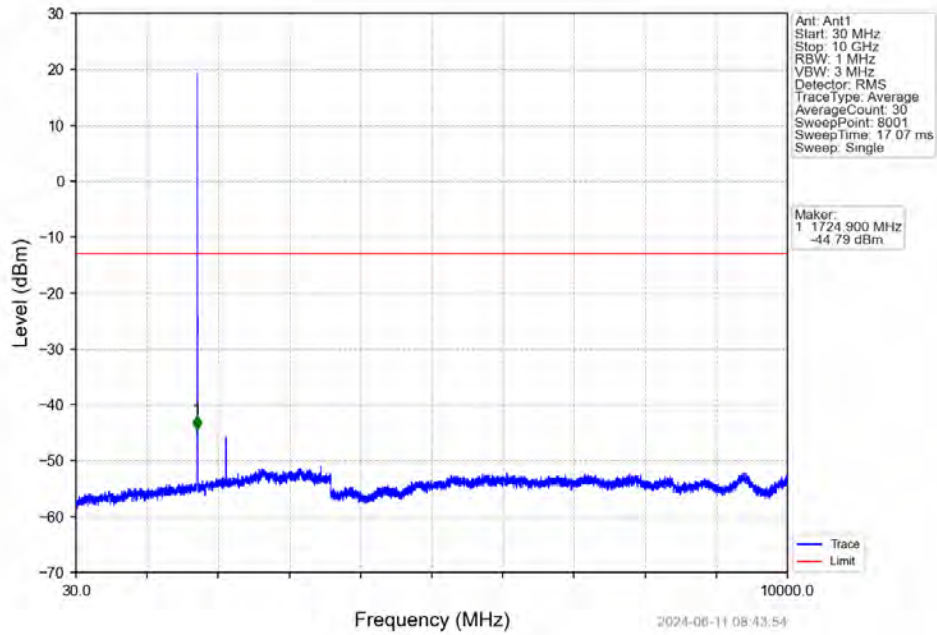


Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV

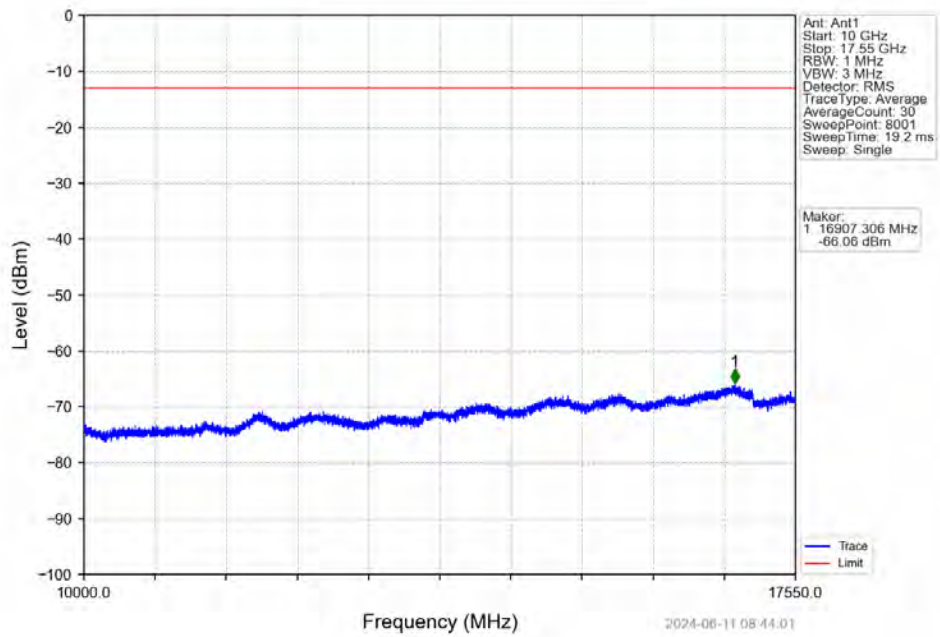


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-22.99	-13	Pass
1709	1710	0.03	/	2	1709.994	-30.71	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

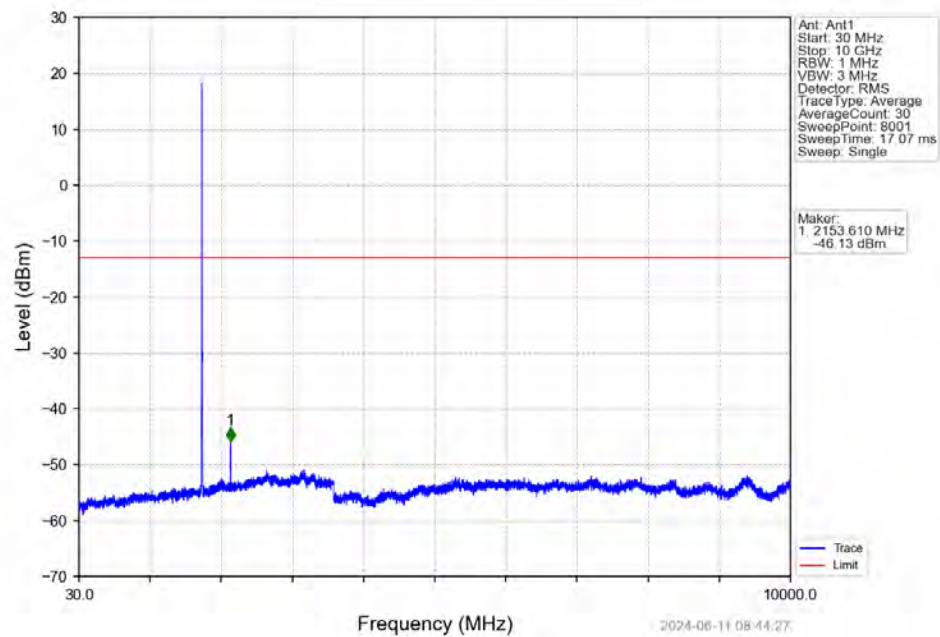
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTN



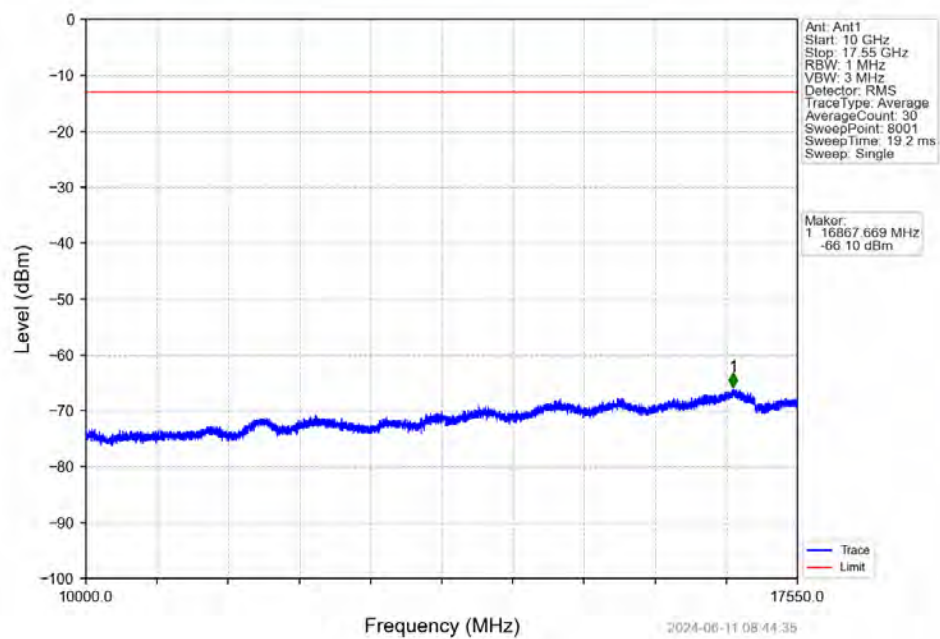
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTN



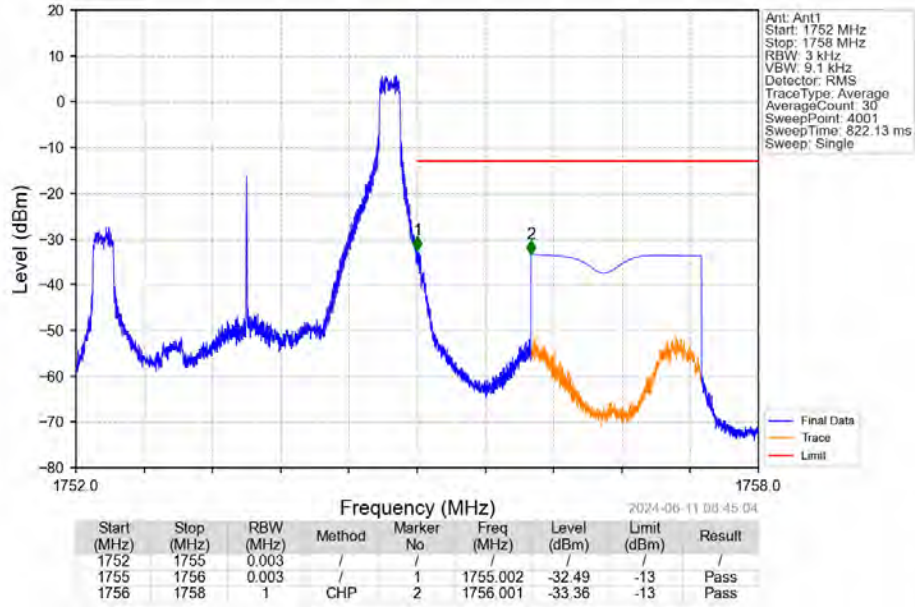
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



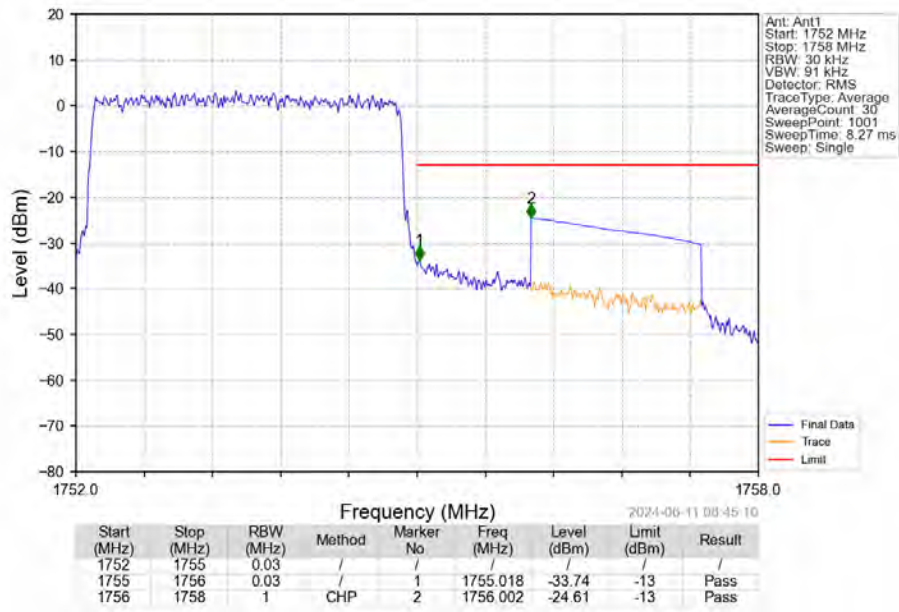
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



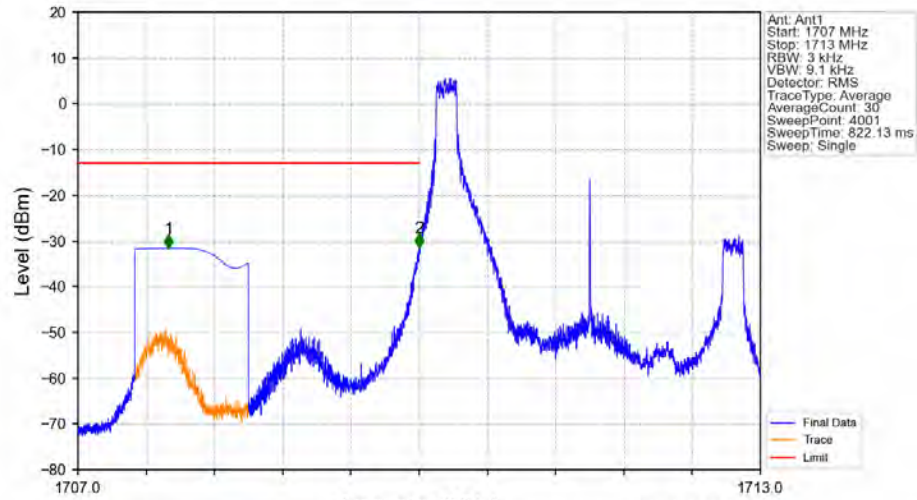
Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTV



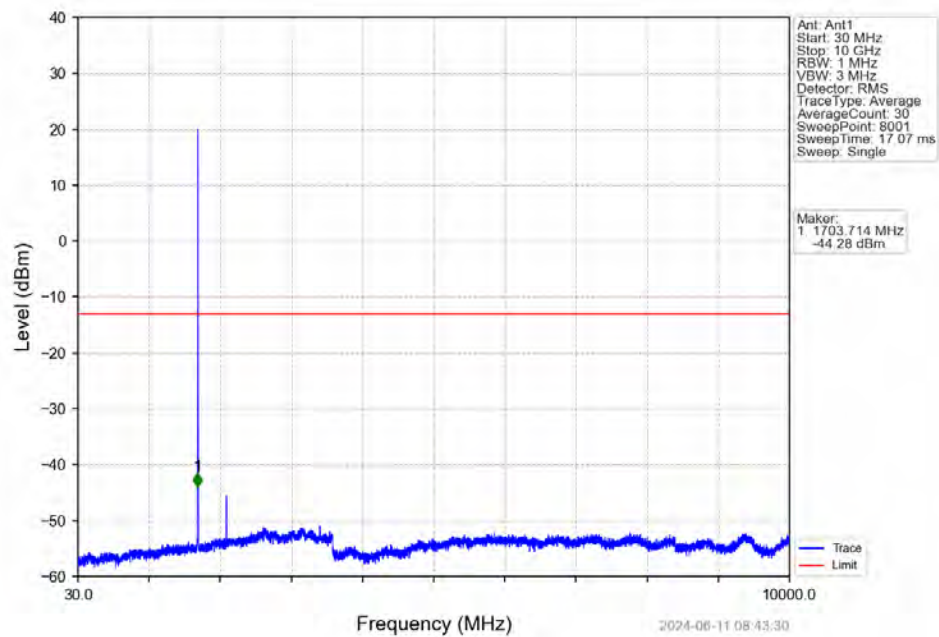
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



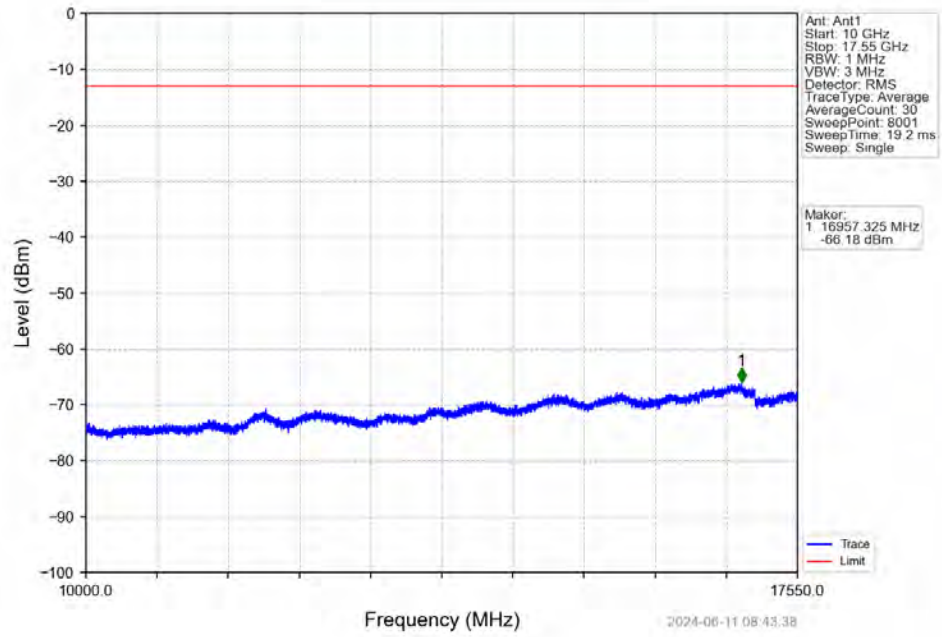
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



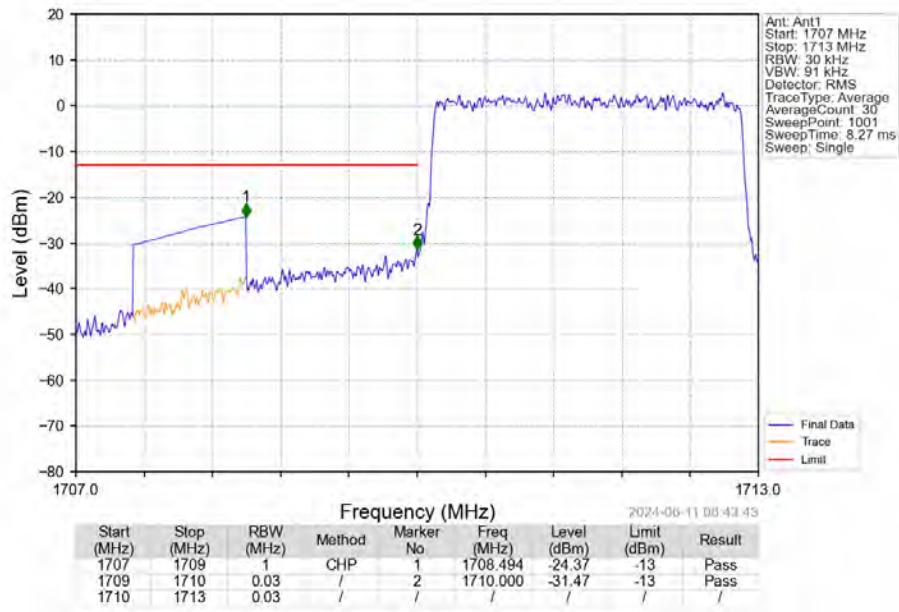
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



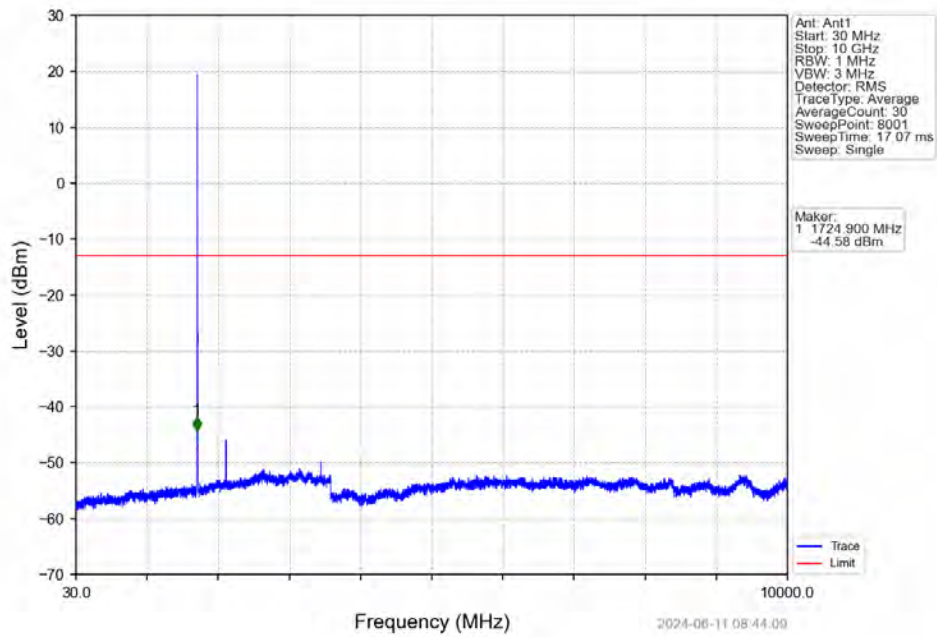
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTV



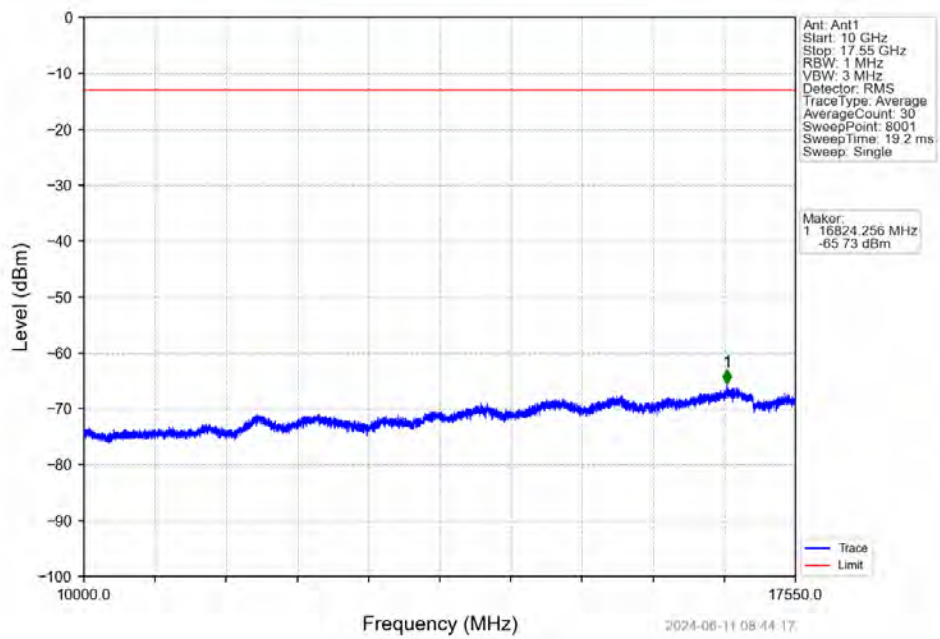
Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTV



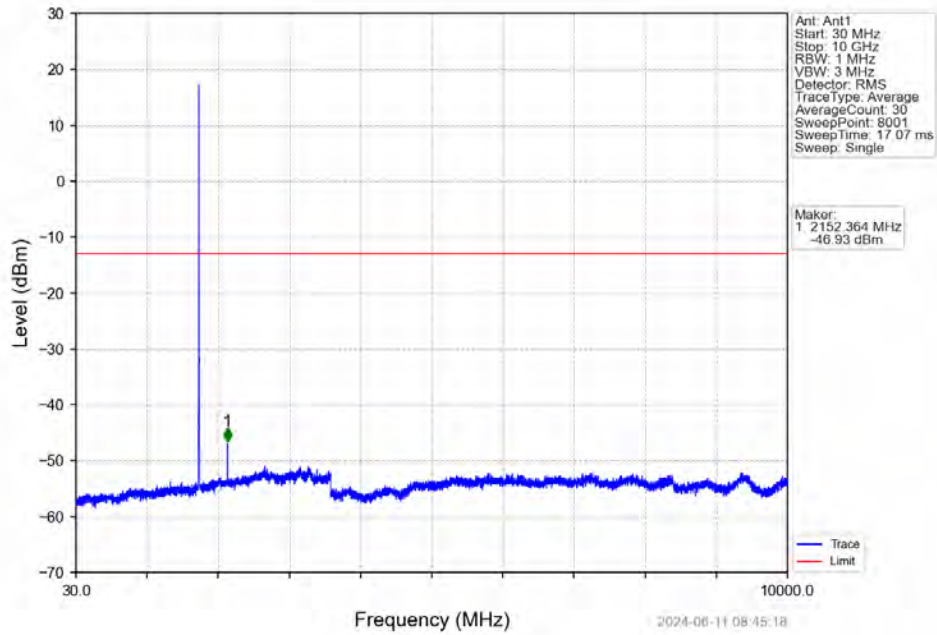
Band4 3MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



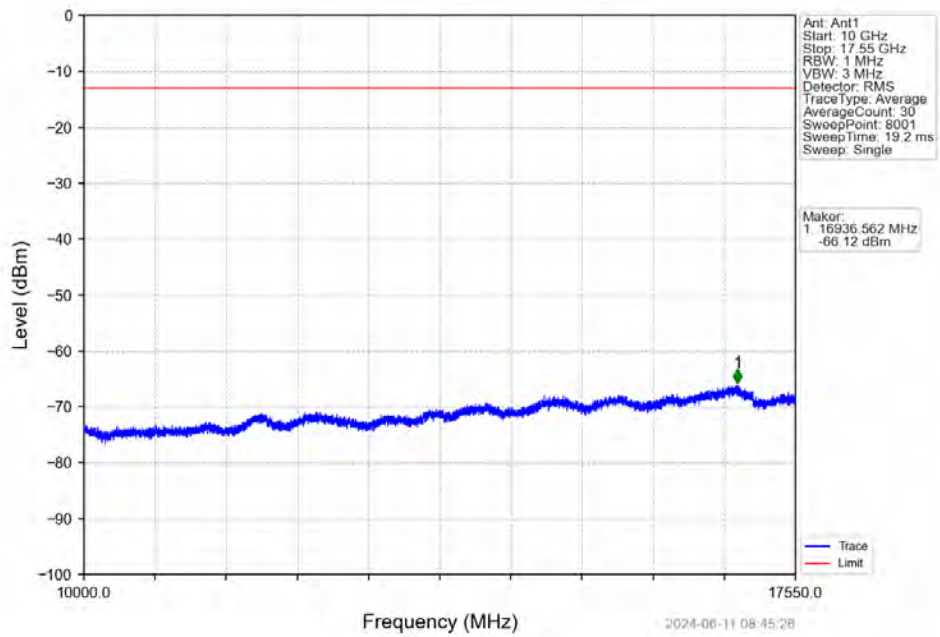
Band4 3MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



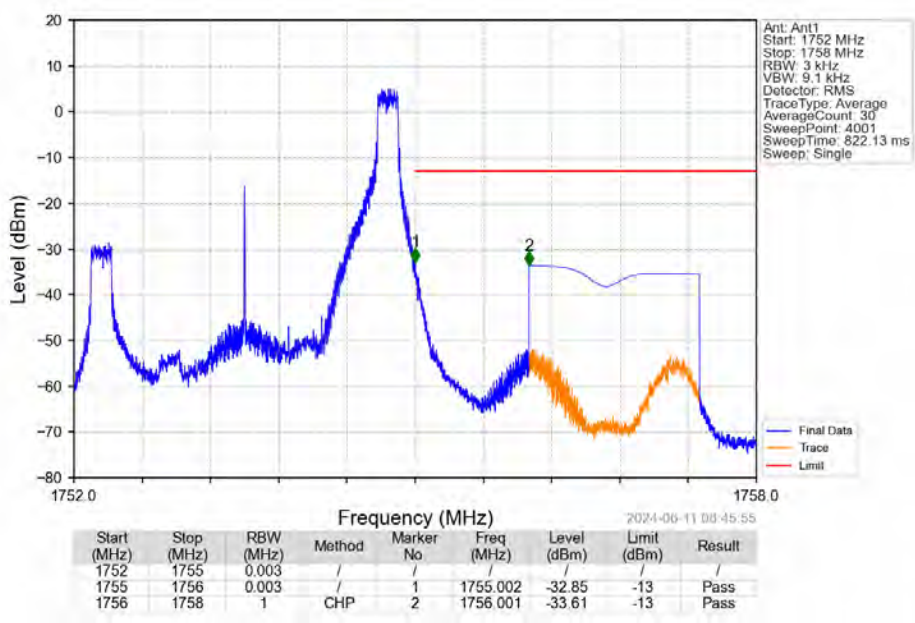
Band4 3MHz 16QAM HCH 1753.5MHz RB 1 0 NTNV



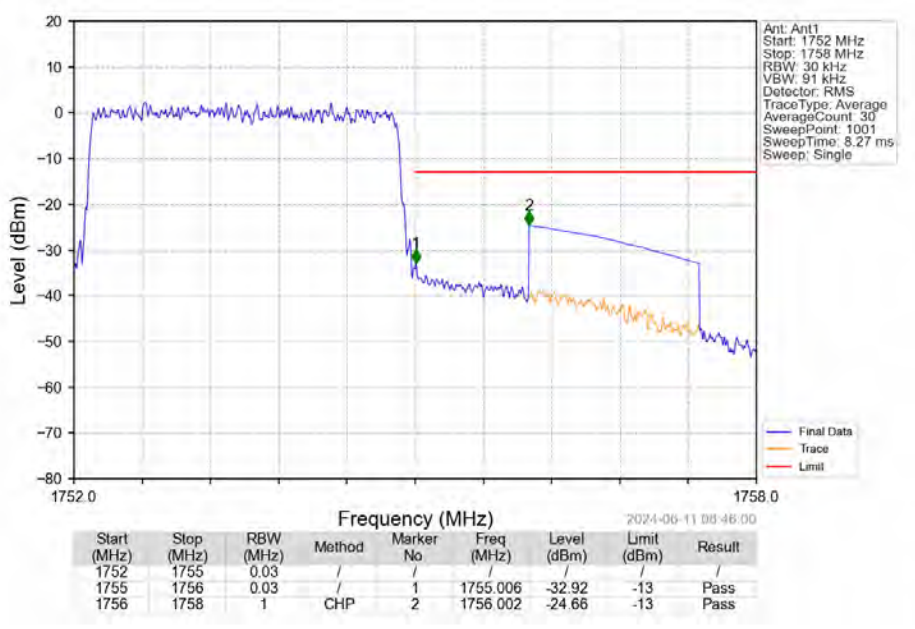
Band4 3MHz 16QAM HCH 1753.5MHz RB 1 0 NTNV



Band4 3MHz 16QAM HCH 1753.5MHz RB 1 14 NTV



Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTV

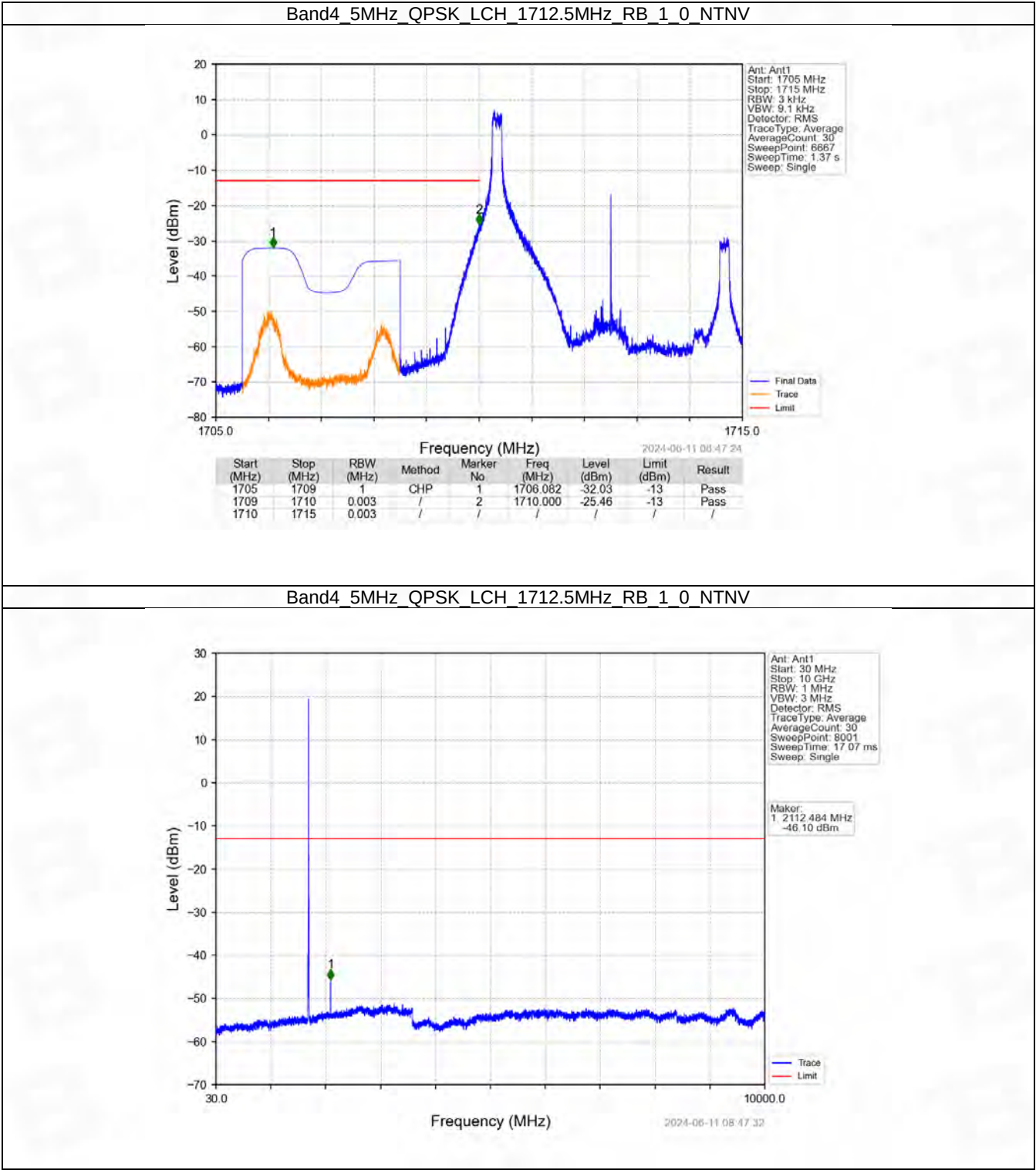


6.3 B4_5MHz

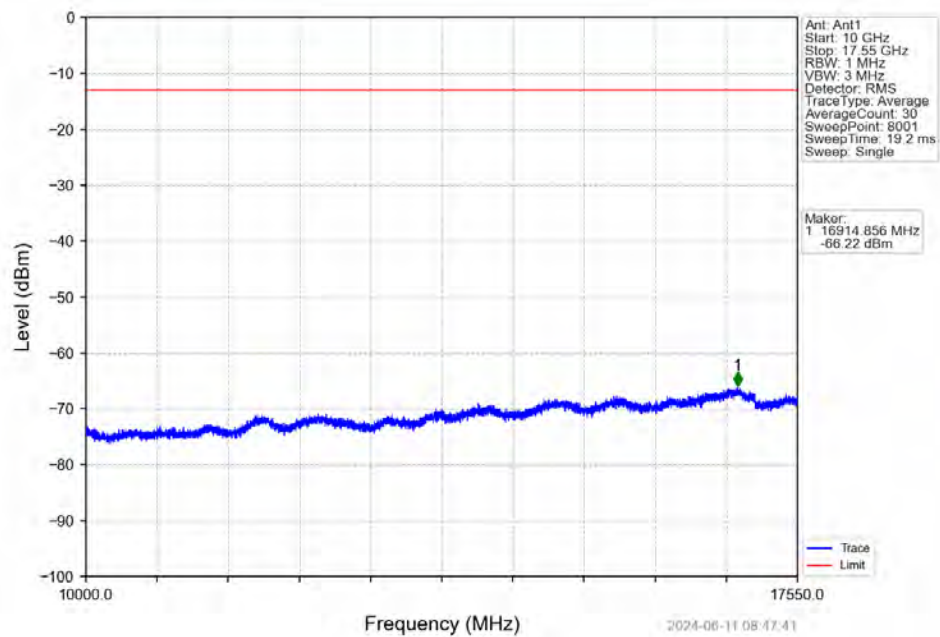
6.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

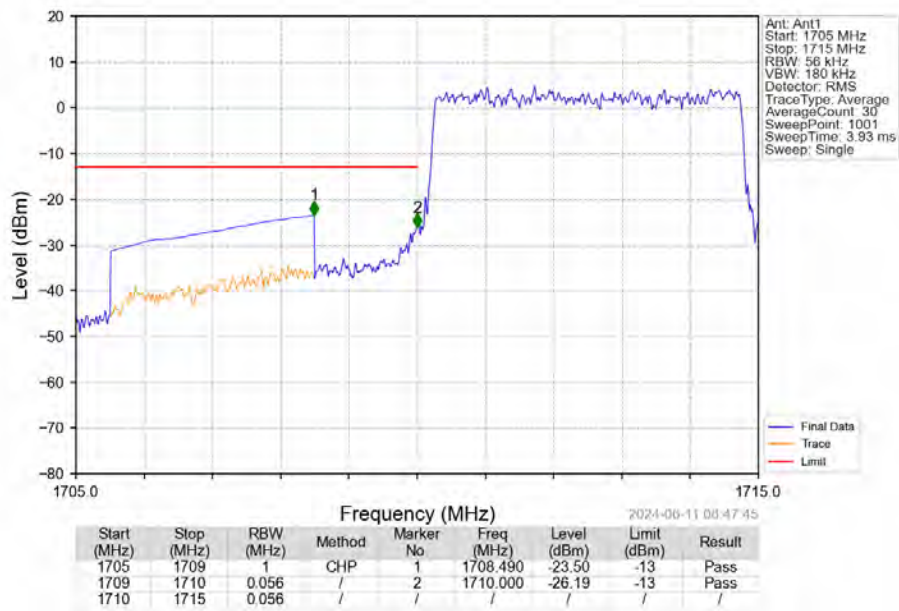
6.3.2 Test Graph



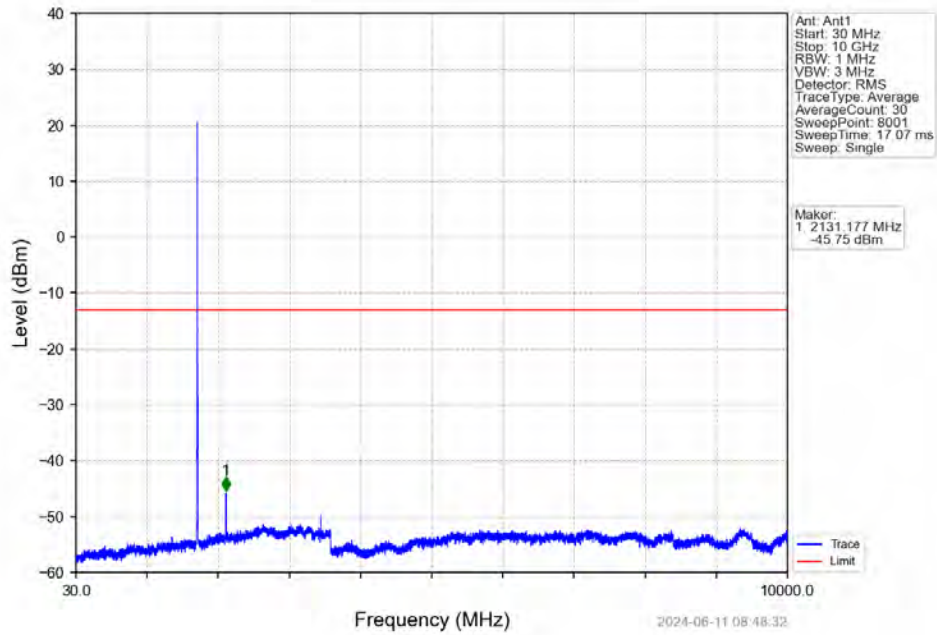
Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN



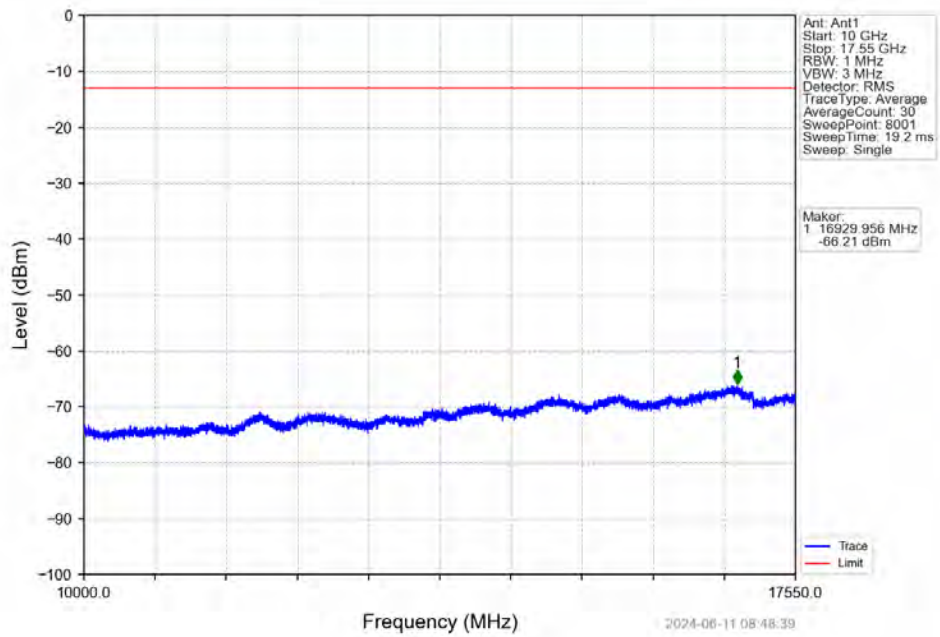
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTN



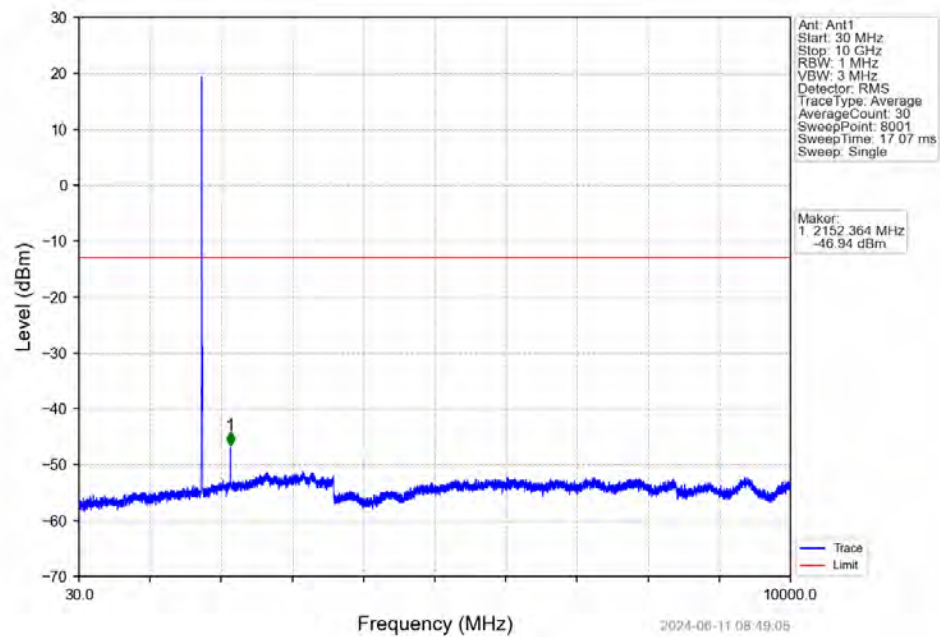
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



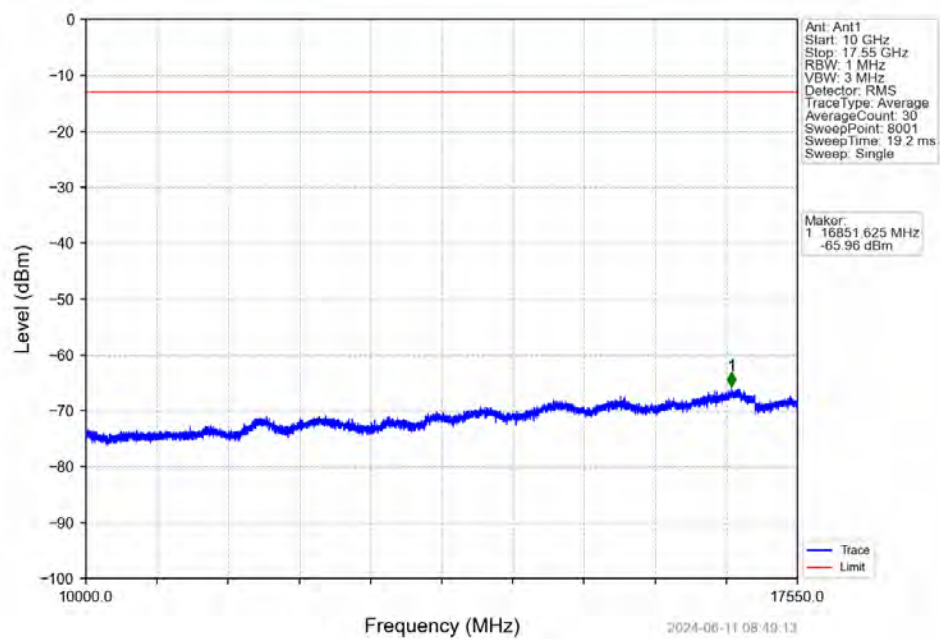
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



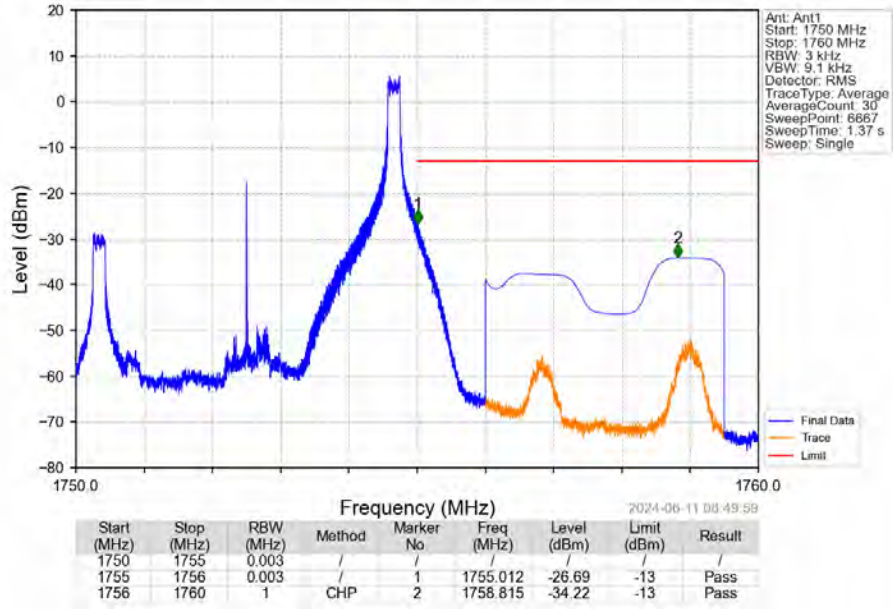
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



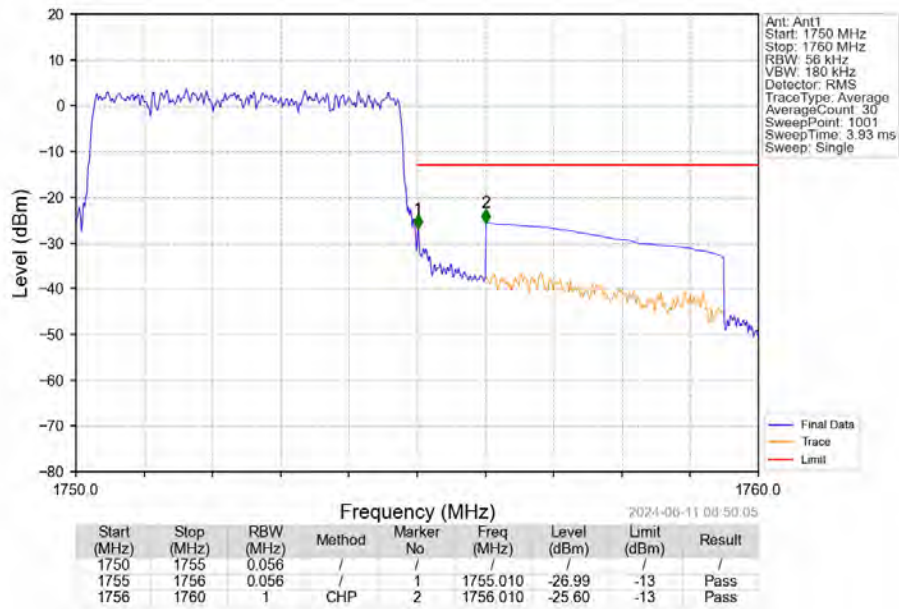
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



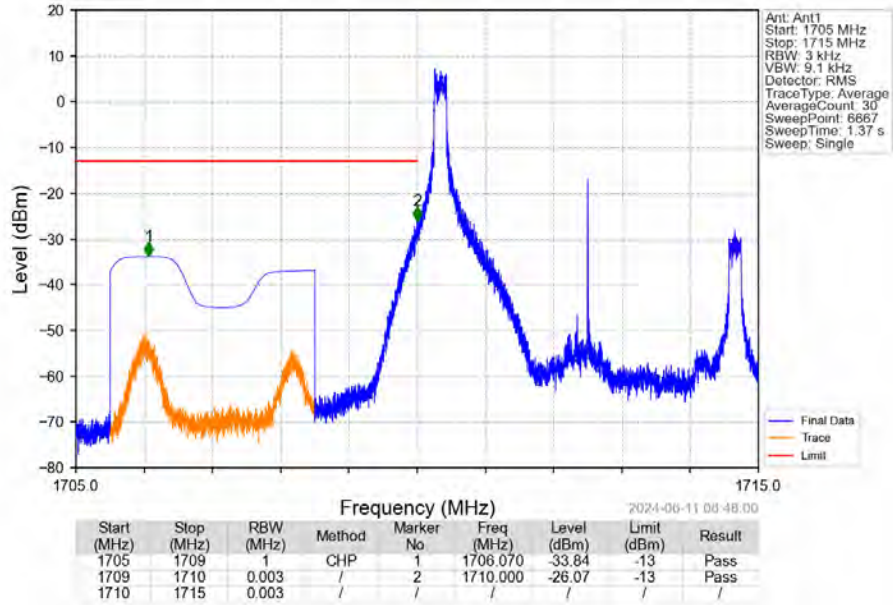
Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTV



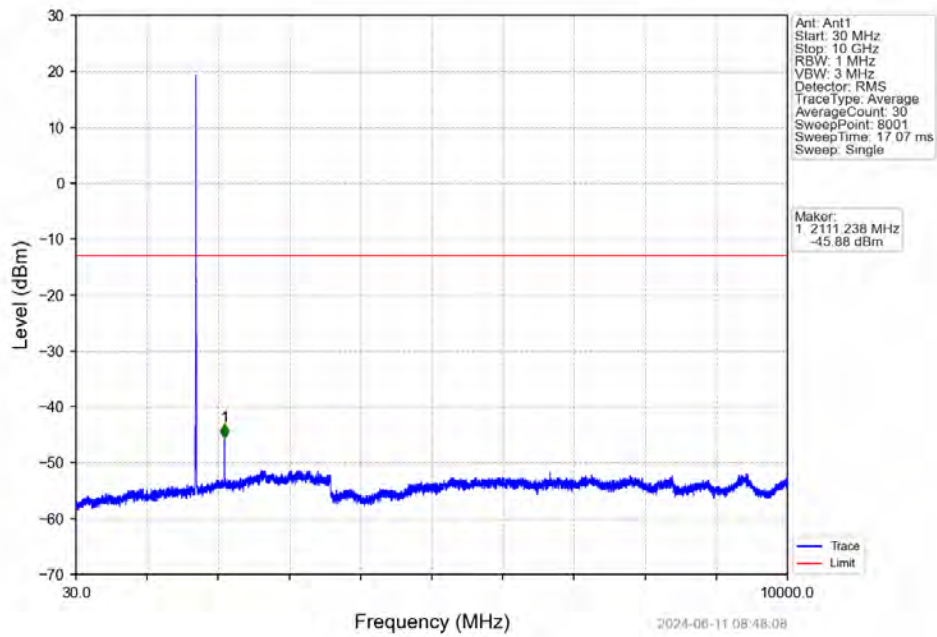
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV



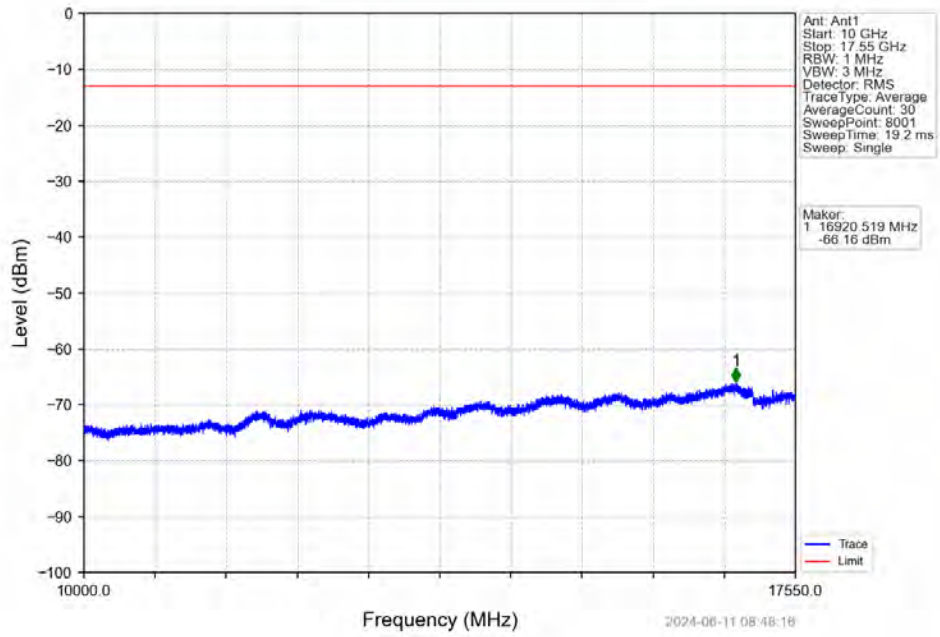
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



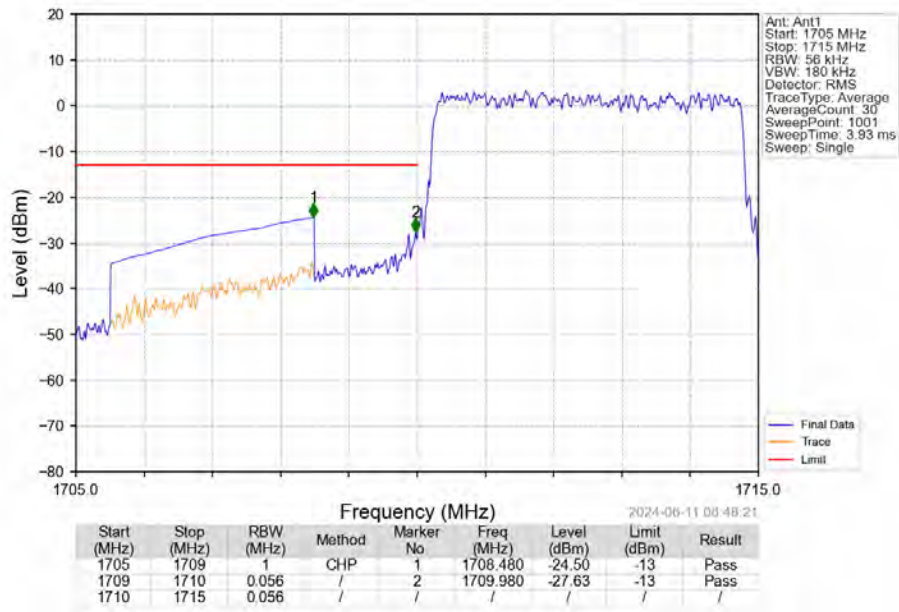
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



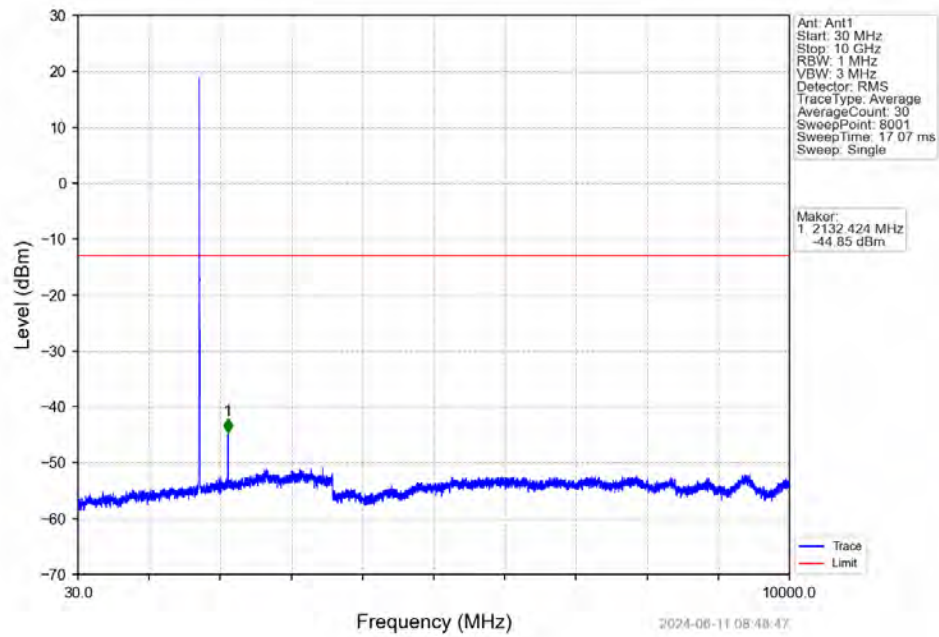
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



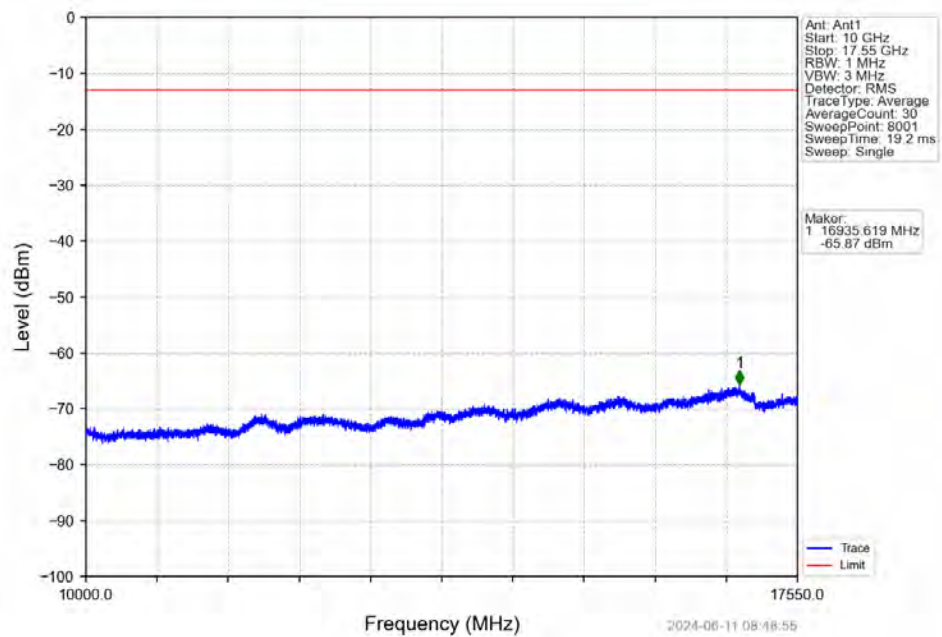
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTNV



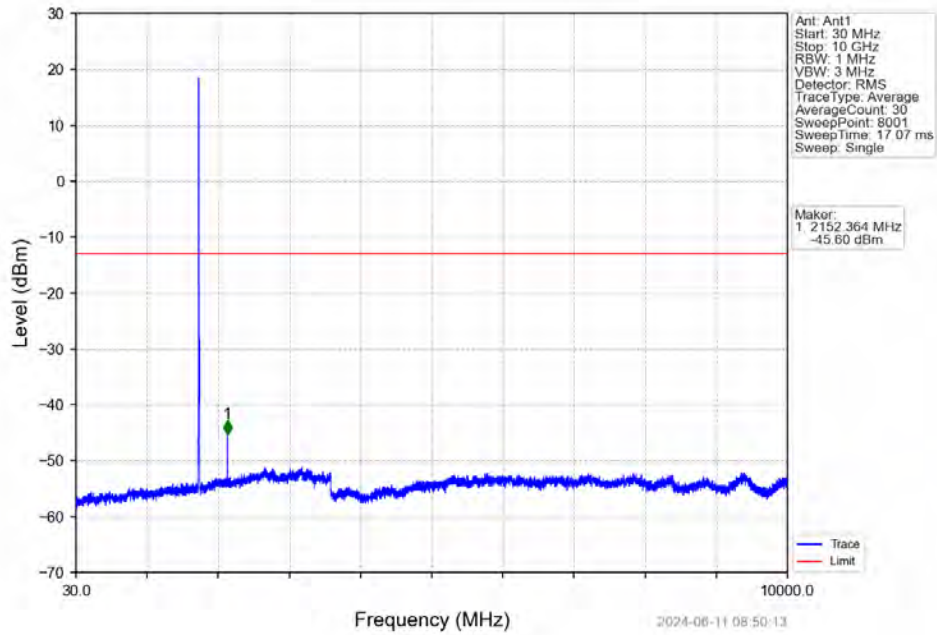
Band4 5MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



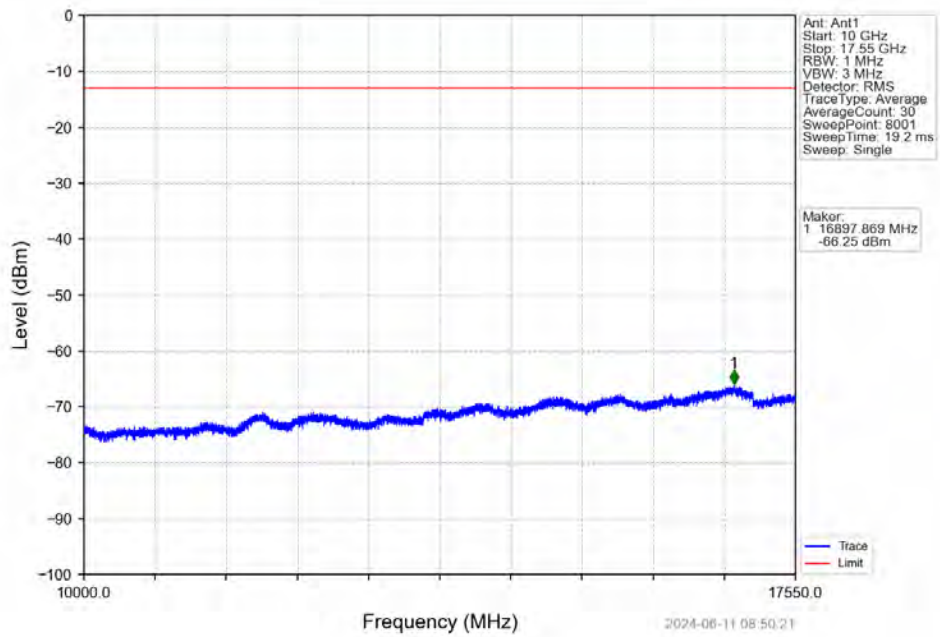
Band4 5MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



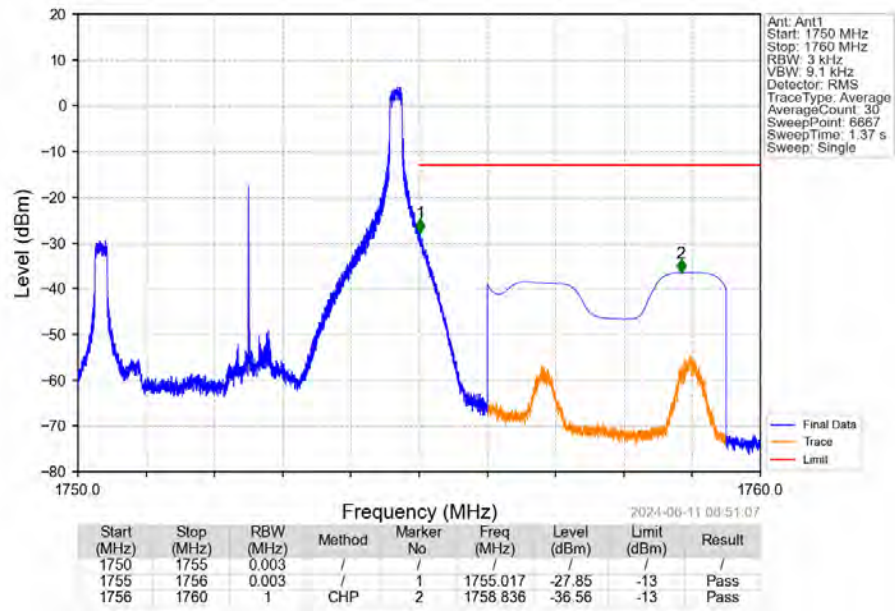
Band4 5MHz 16QAM HCH 1752.5MHz RB 1 0 NTNV



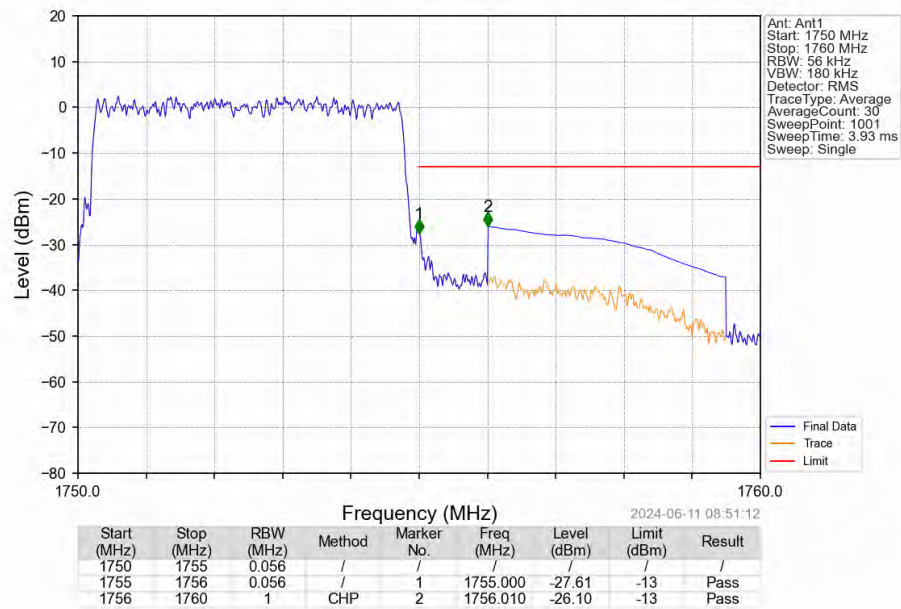
Band4 5MHz 16QAM HCH 1752.5MHz RB 1 0 NTNV



Band4 5MHz 16QAM HCH 1752.5MHz RB 1 24 NTV



Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTV

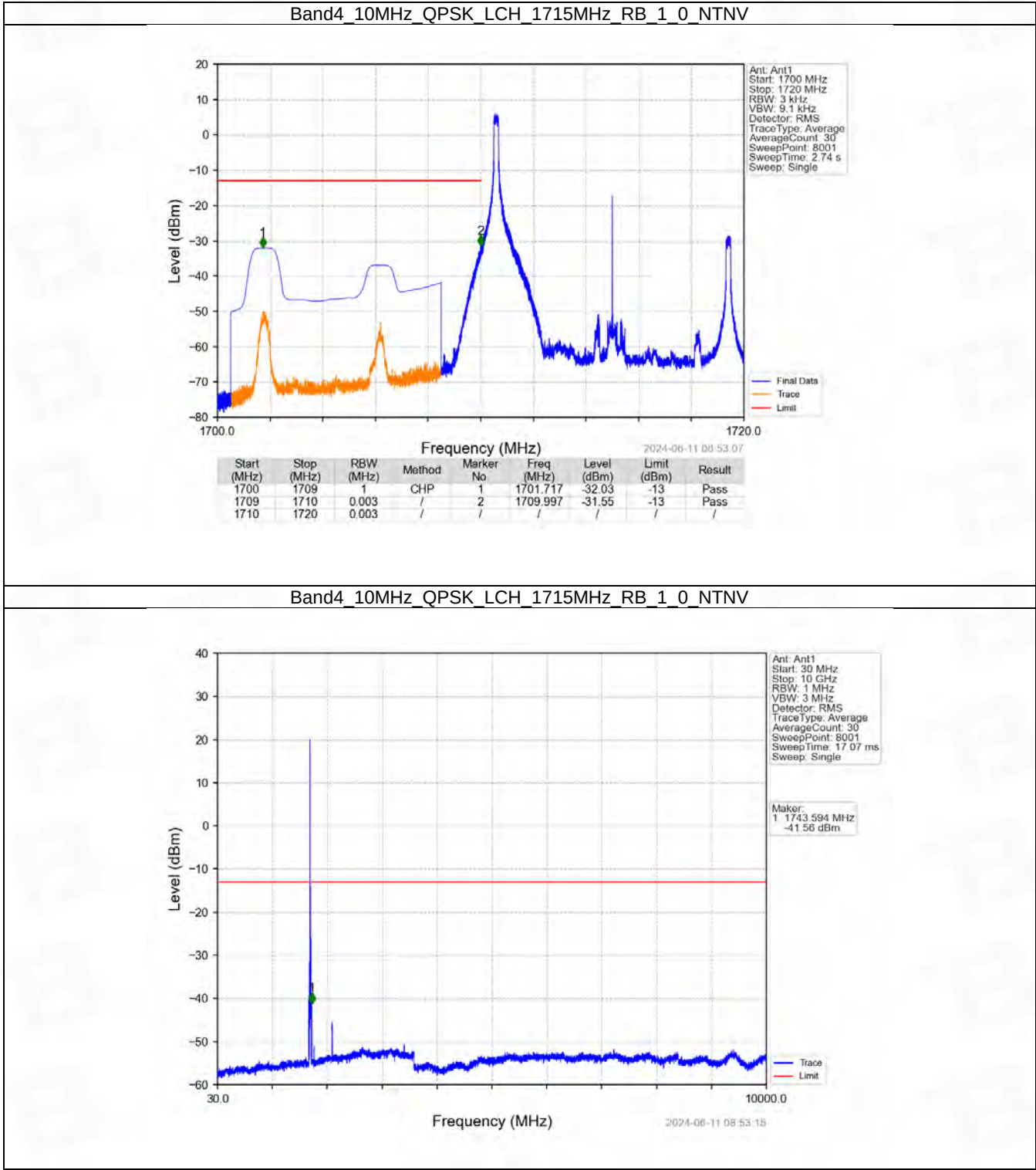


6.4 B4_10MHz

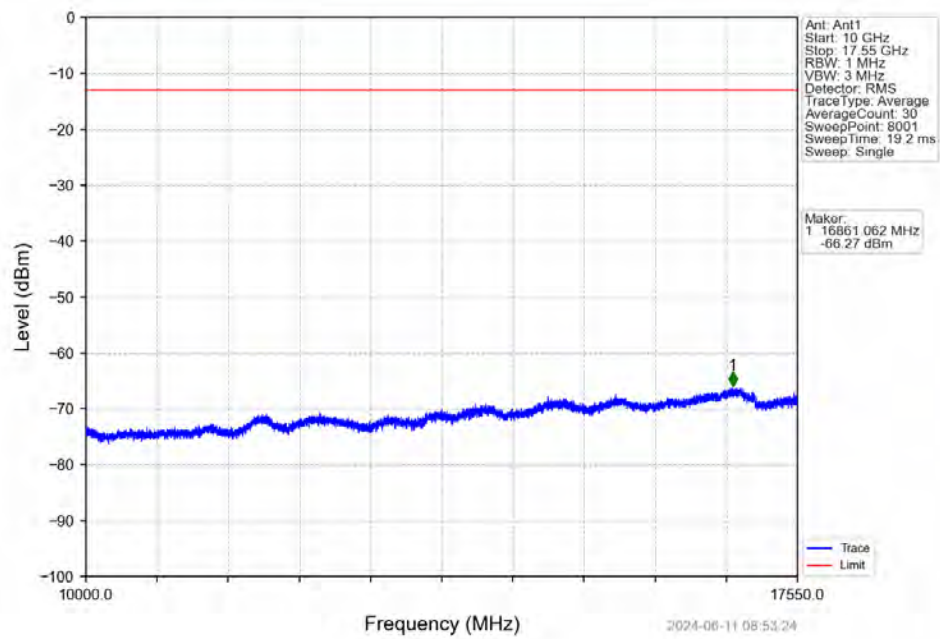
6.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

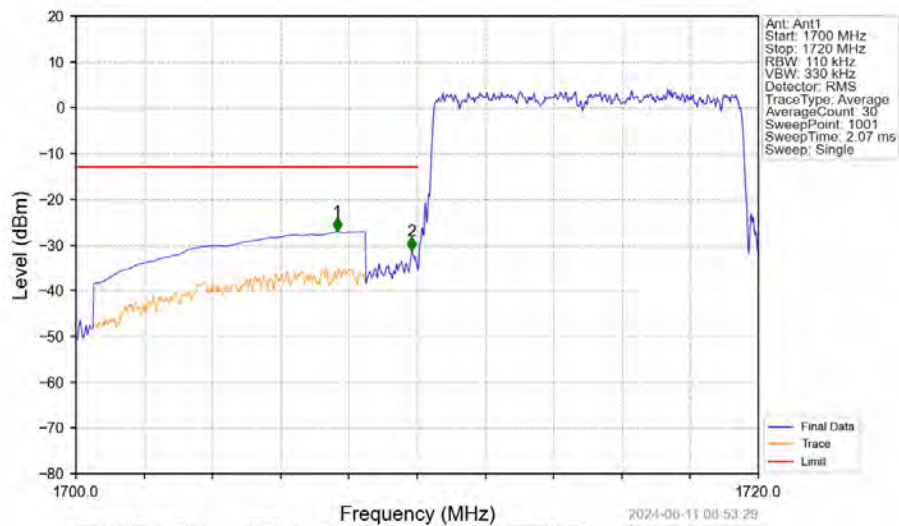
6.4.2 Test Graph



Band4 10MHz QPSK LCH 1715MHz RB 1 0 NTN

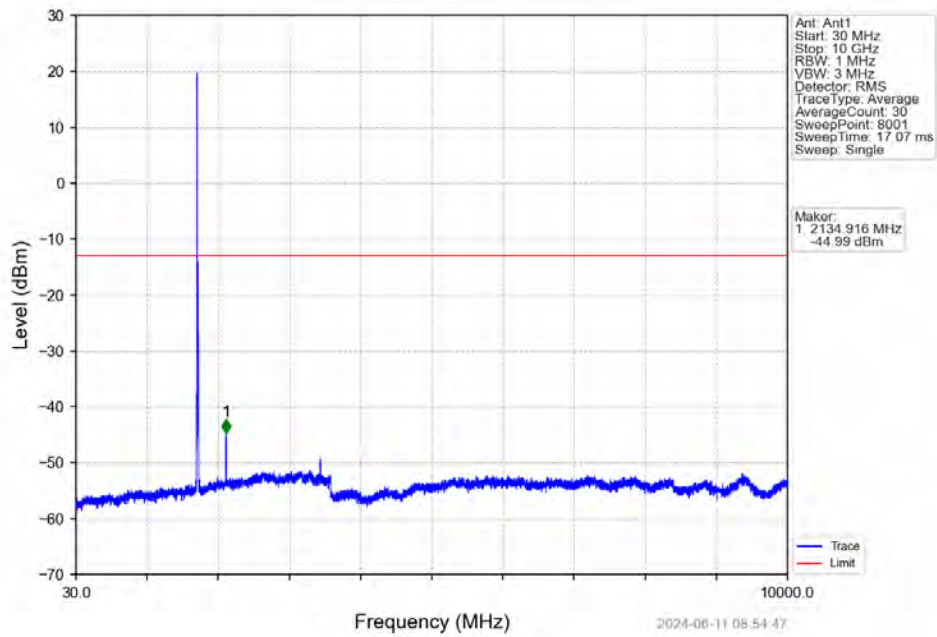


Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTN

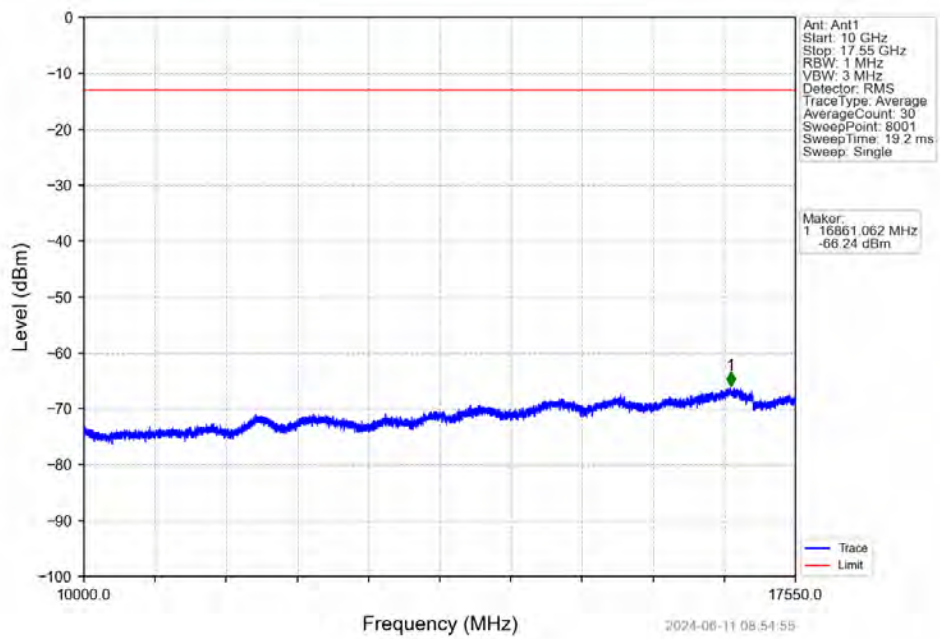


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1707.660	-27.10	-13	Pass
1709	1710	0.11	/	2	1709.840	-31.28	-13	Pass
1710	1720	0.11	/	/	/	/	/	/

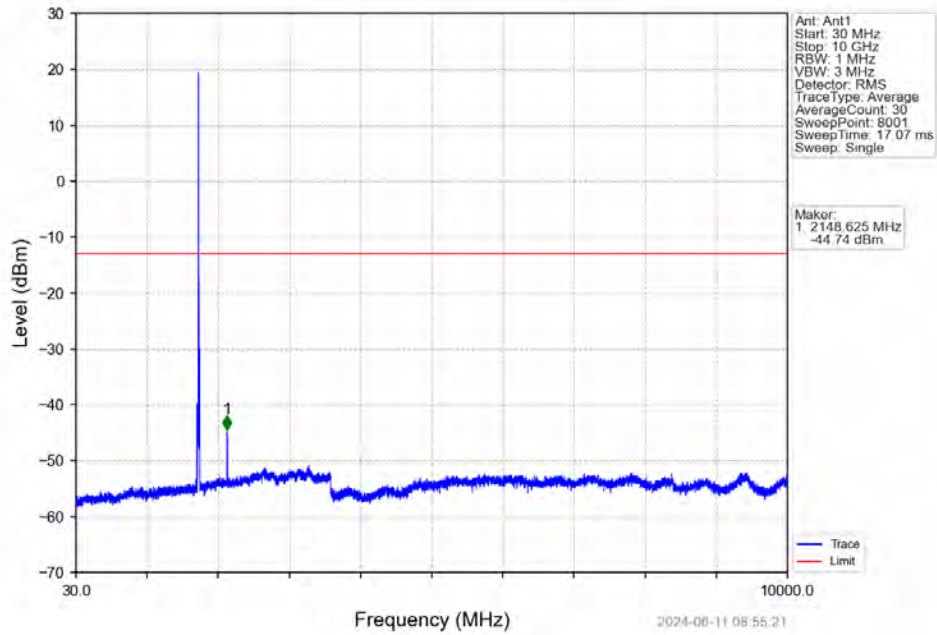
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



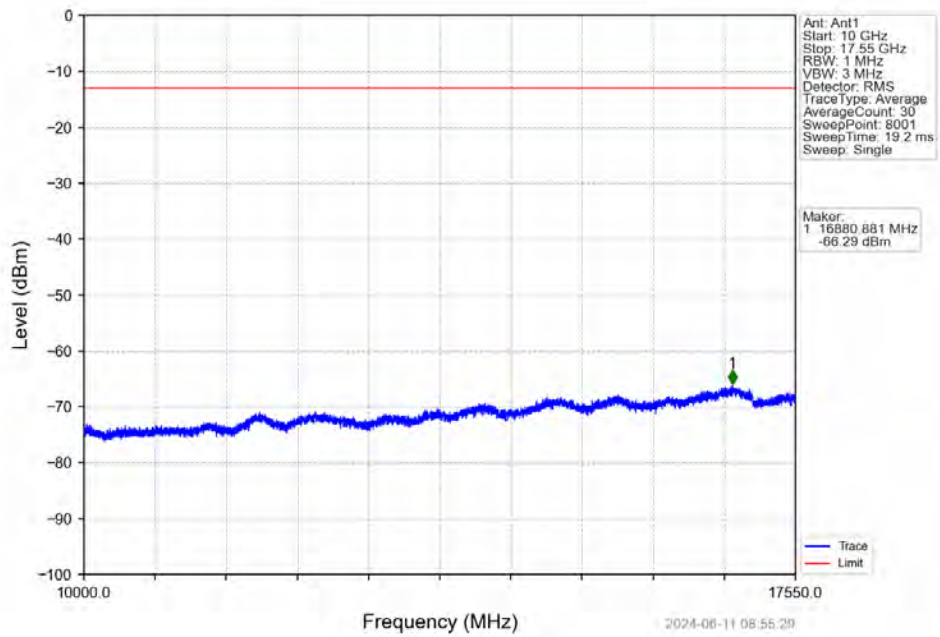
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



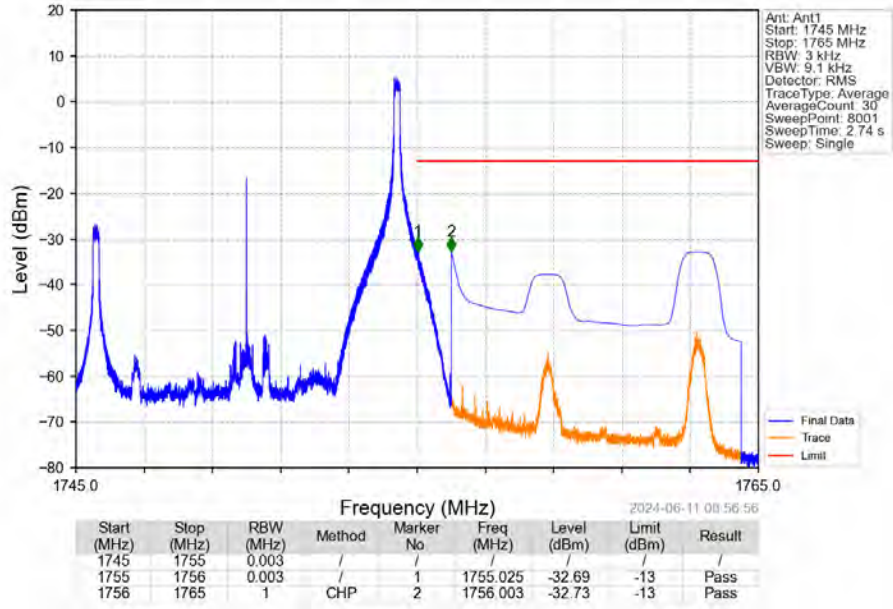
Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN



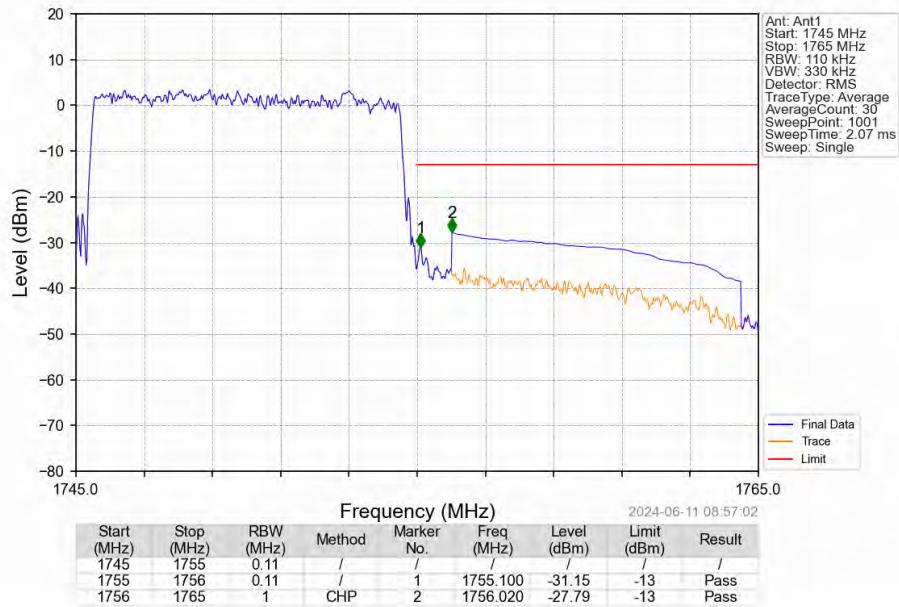
Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN



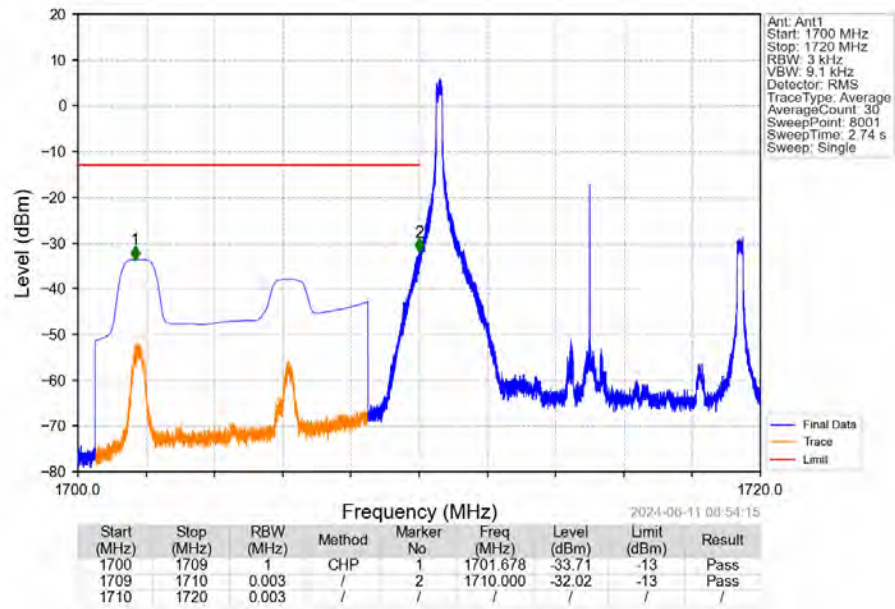
Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTNV



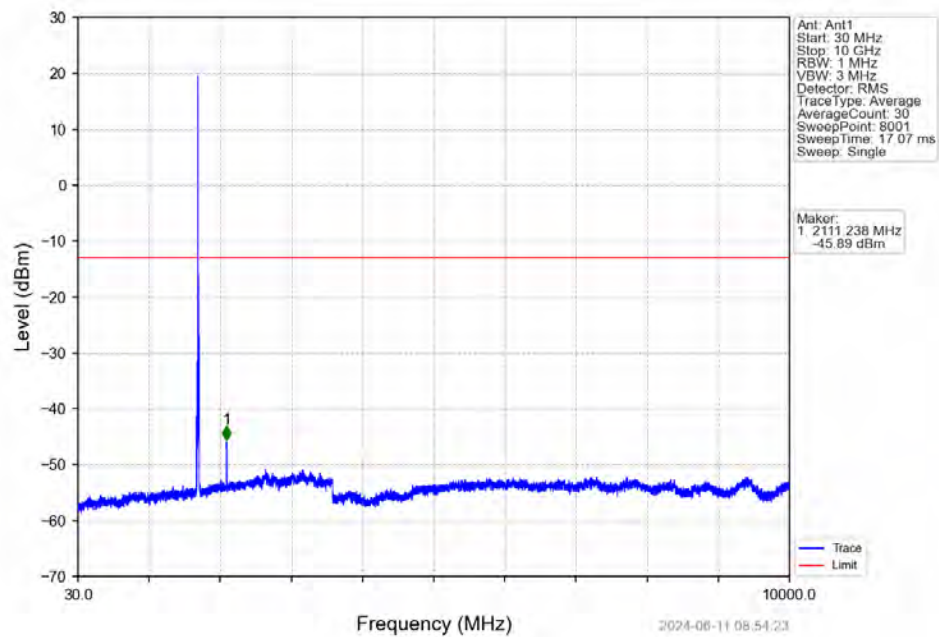
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



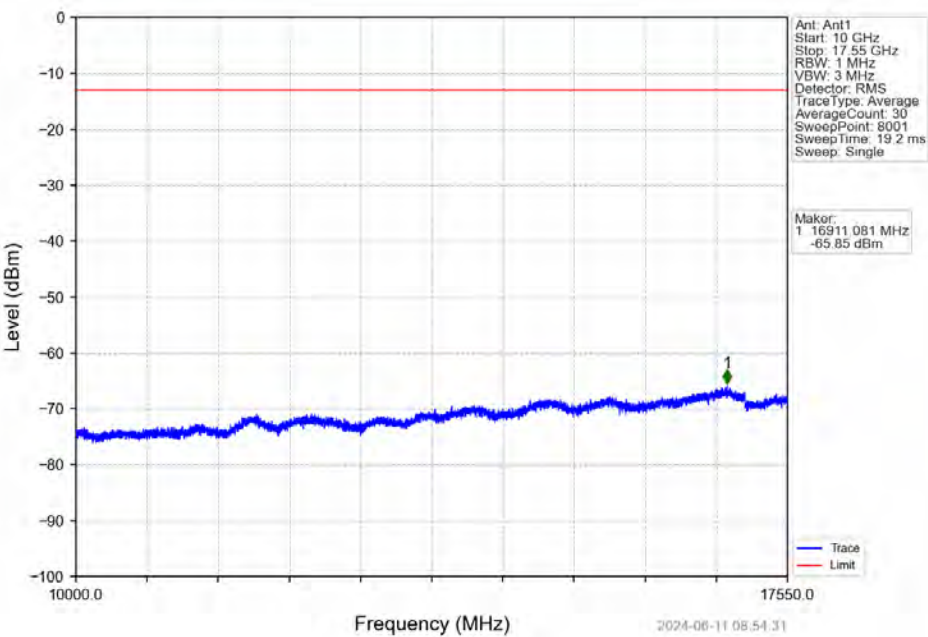
Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV



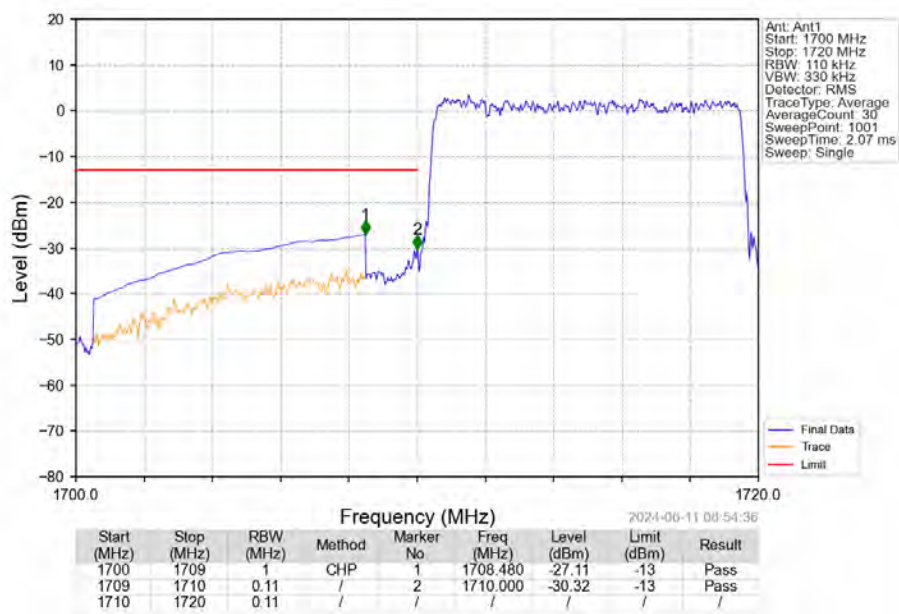
Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV



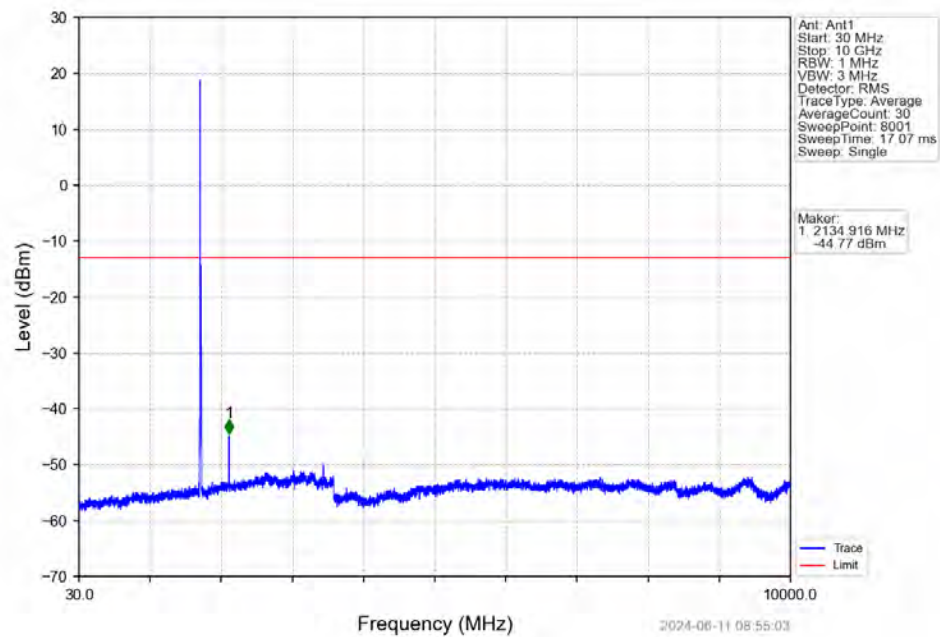
Band4 10MHz 16QAM LCH 1715MHz RB 1 0 NTNV



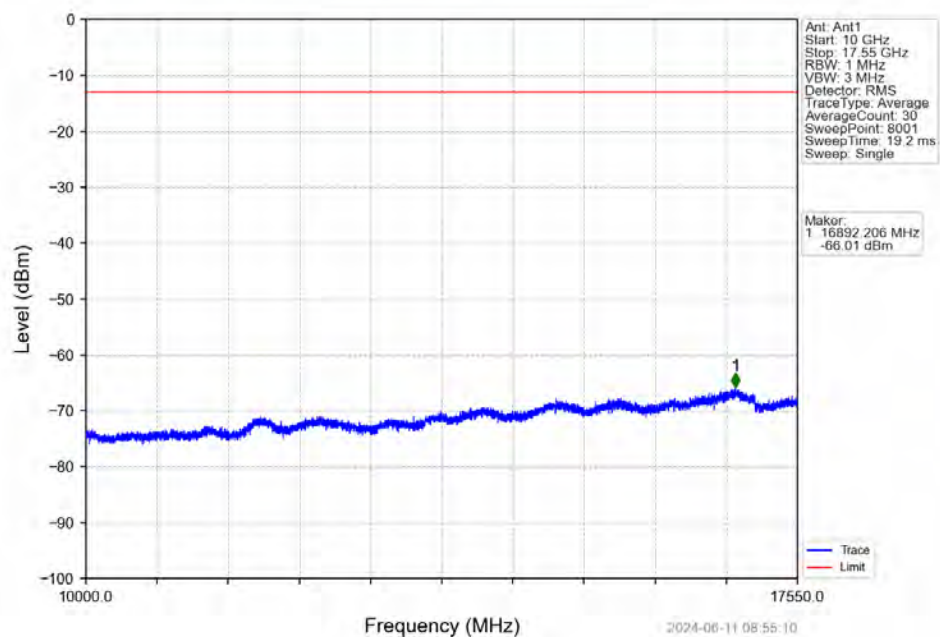
Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



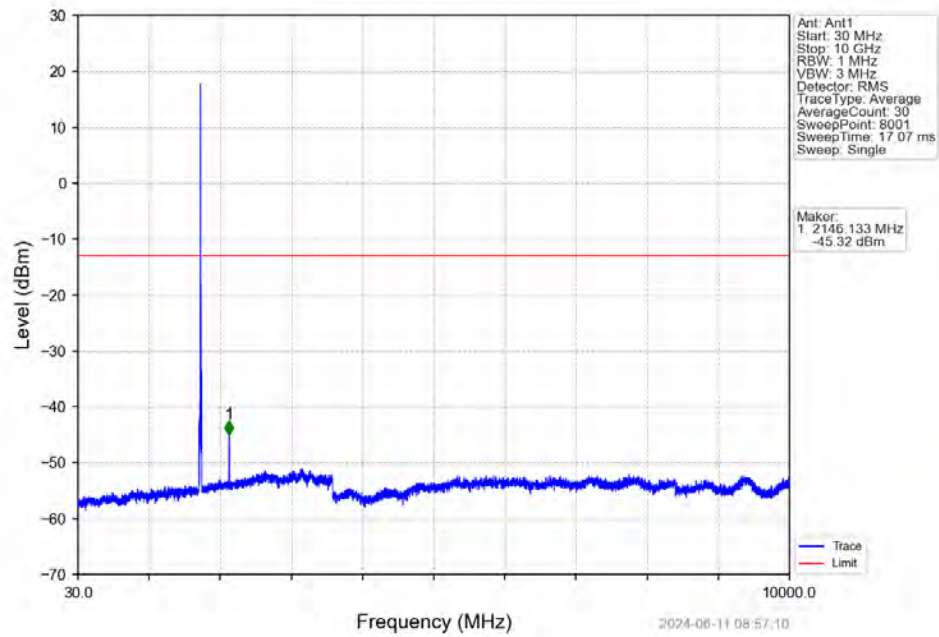
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



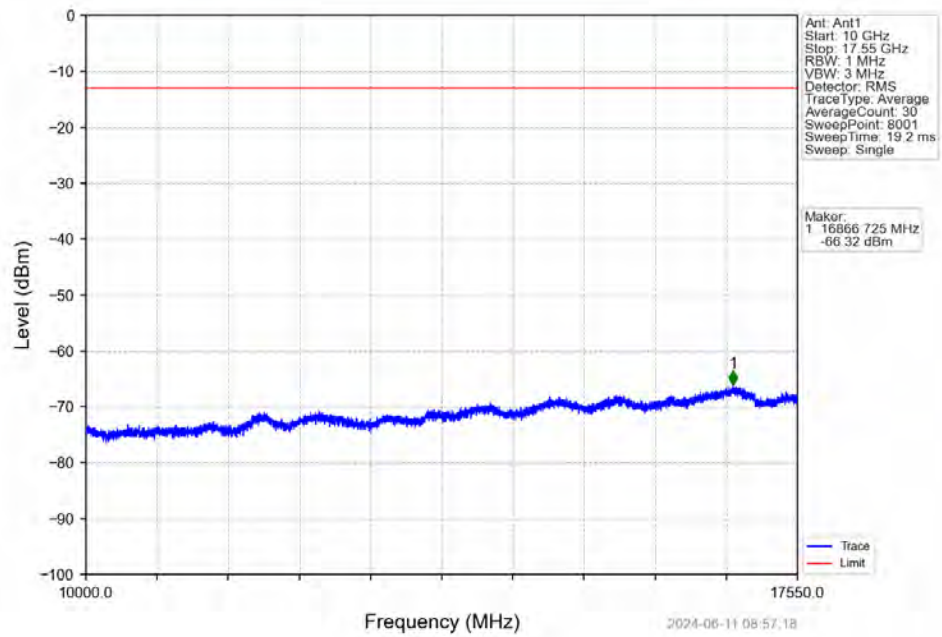
Band4 10MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



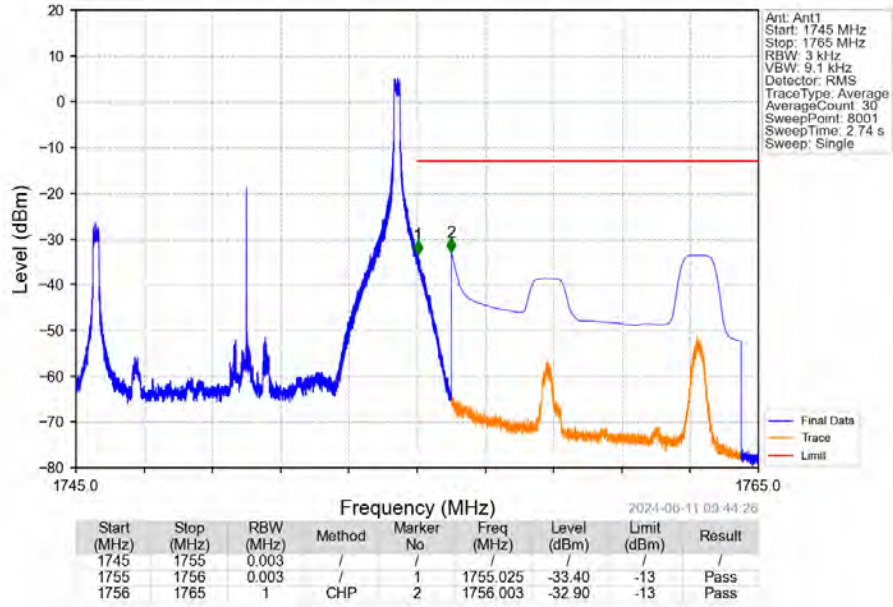
Band4 10MHz 16QAM HCH 1750MHz RB 1 0 NTNV



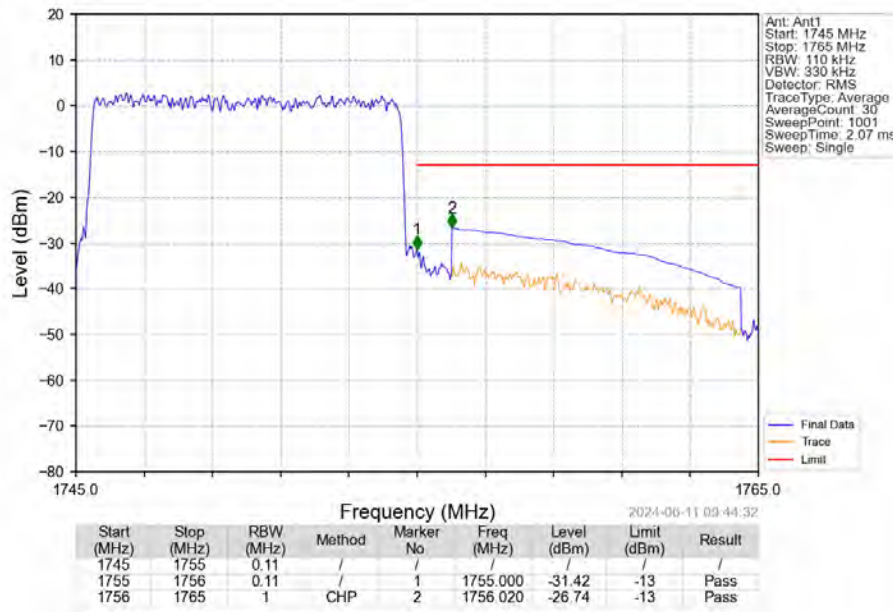
Band4 10MHz 16QAM HCH 1750MHz RB 1 0 NTNV



Band4 10MHz 16QAM HCH 1750MHz RB 1 49 NTNV



Band4 10MHz 16QAM HCH 1750MHz RB 50 0 NTNV

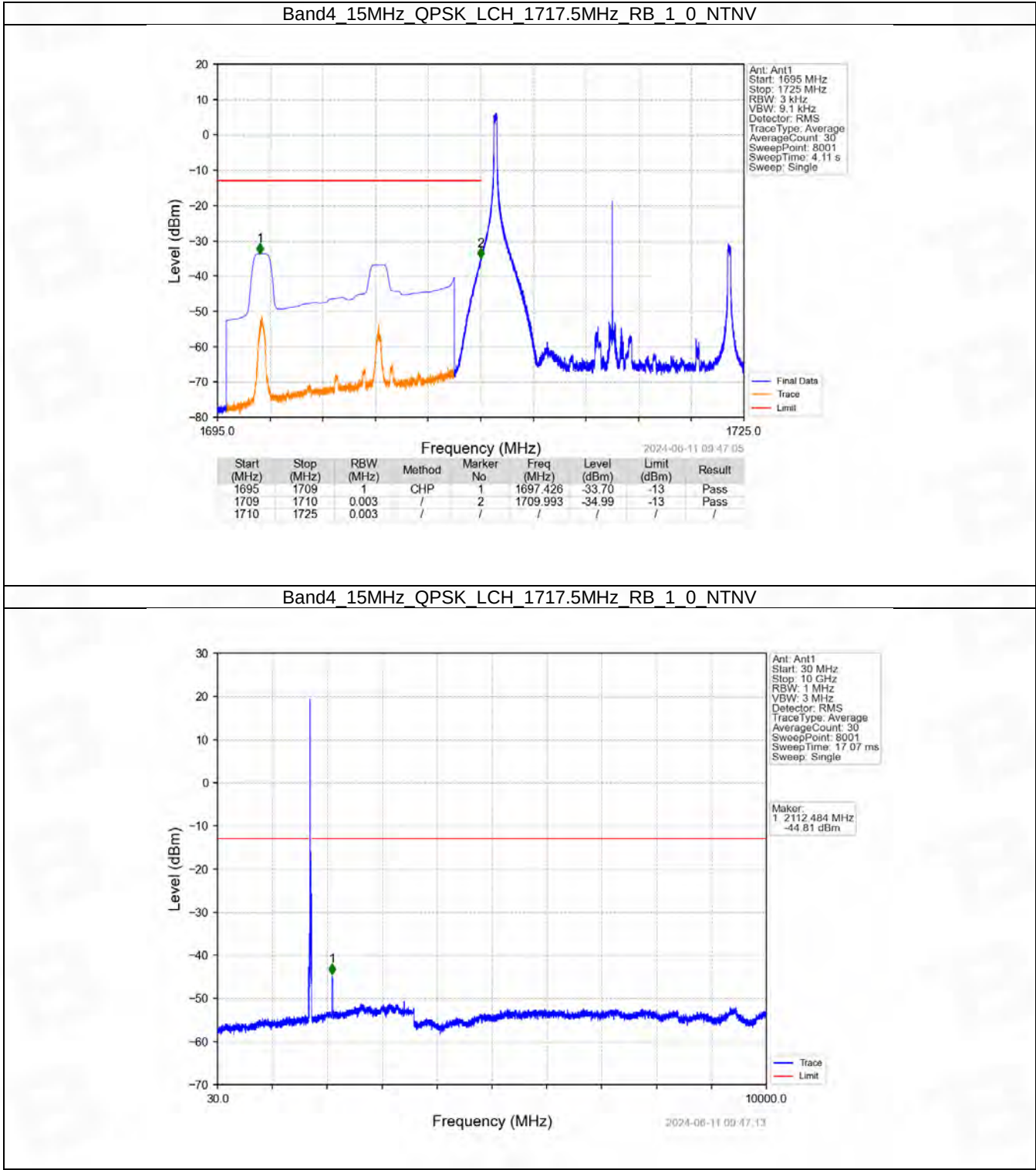


6.5 B4_15MHz

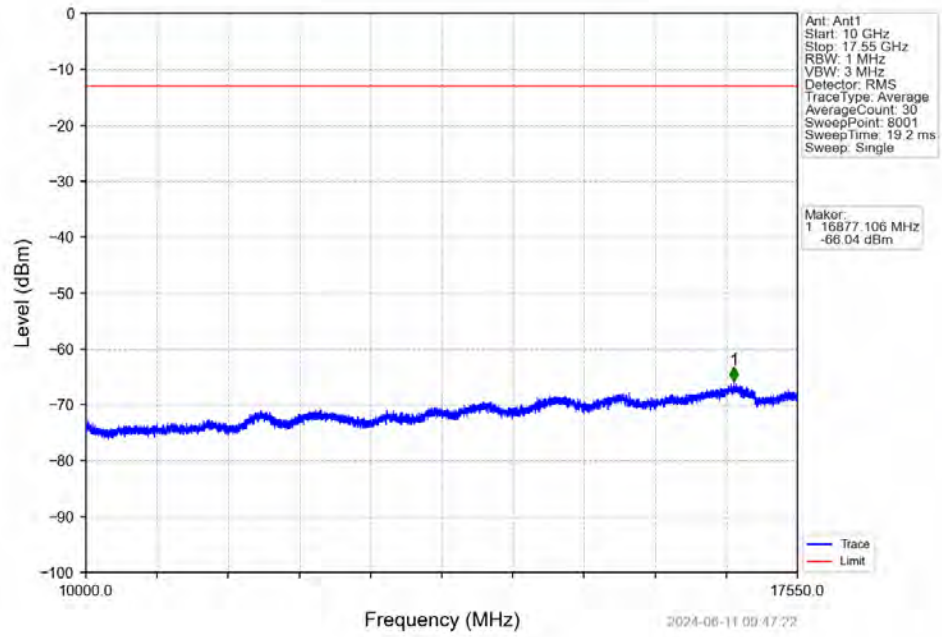
6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

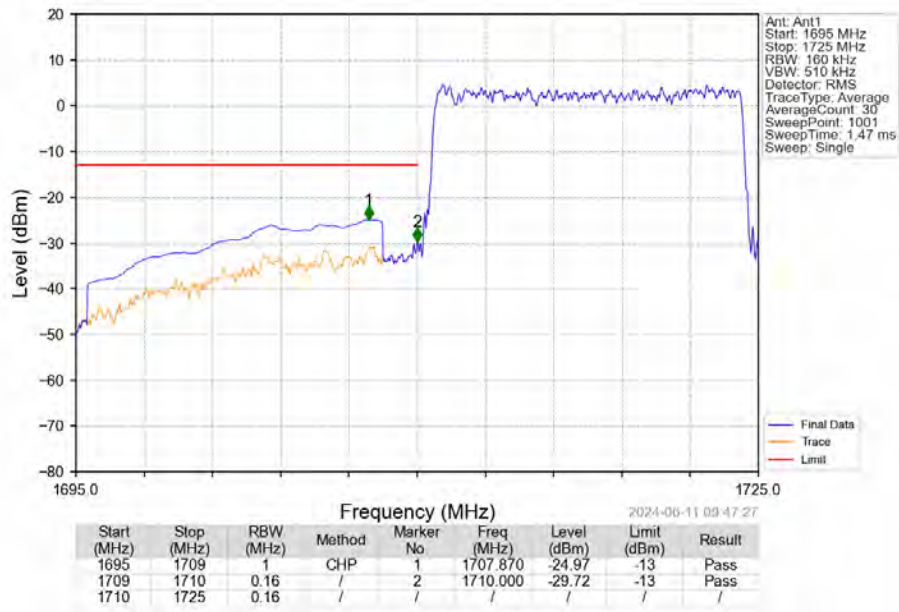
6.5.2 Test Graph



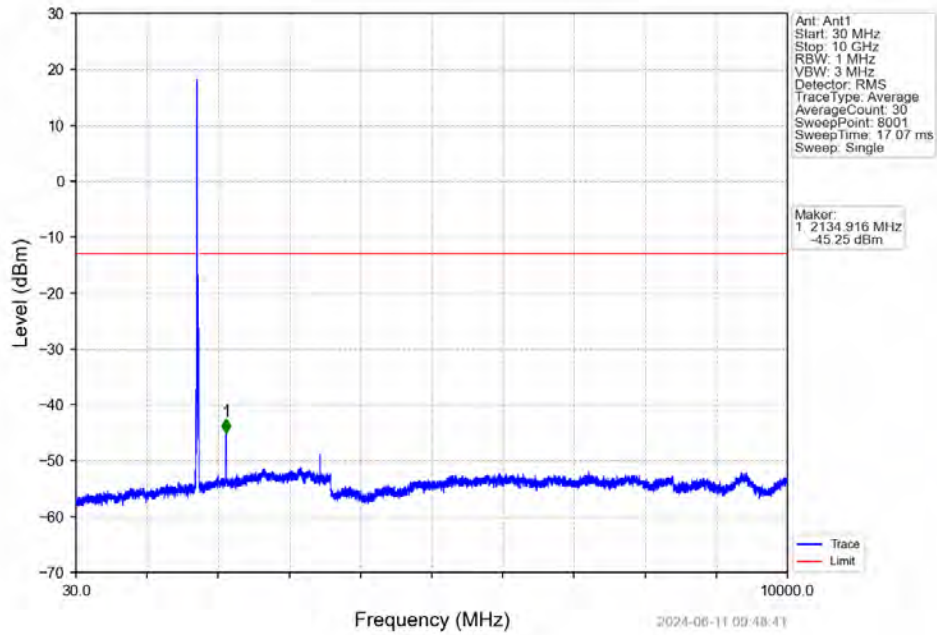
Band4 15MHz QPSK LCH 1717.5MHz RB 1 0 NTNV



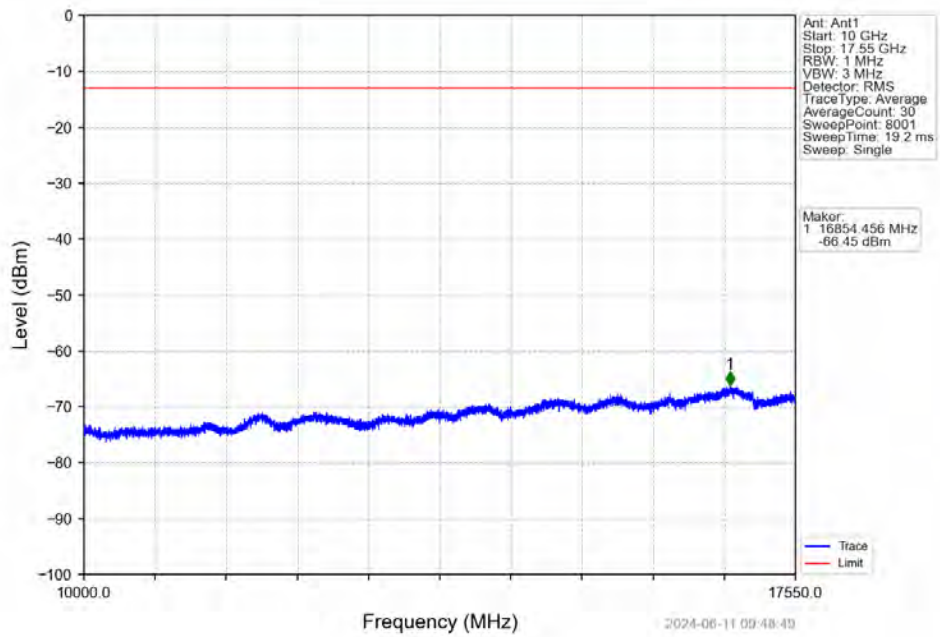
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTNV



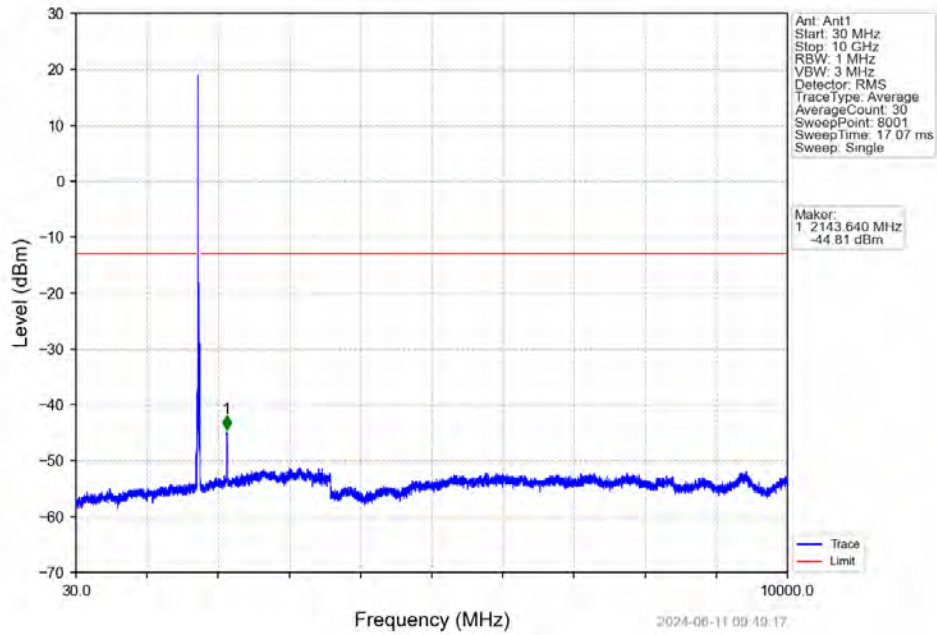
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTV



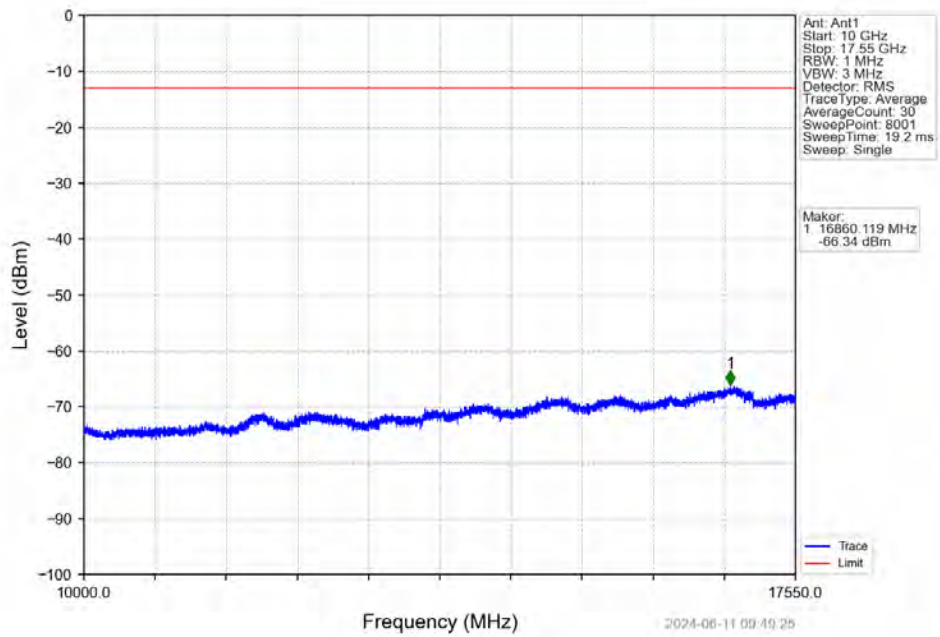
Band4 15MHz QPSK MCH 1732.5MHz RB 1 0 NTV



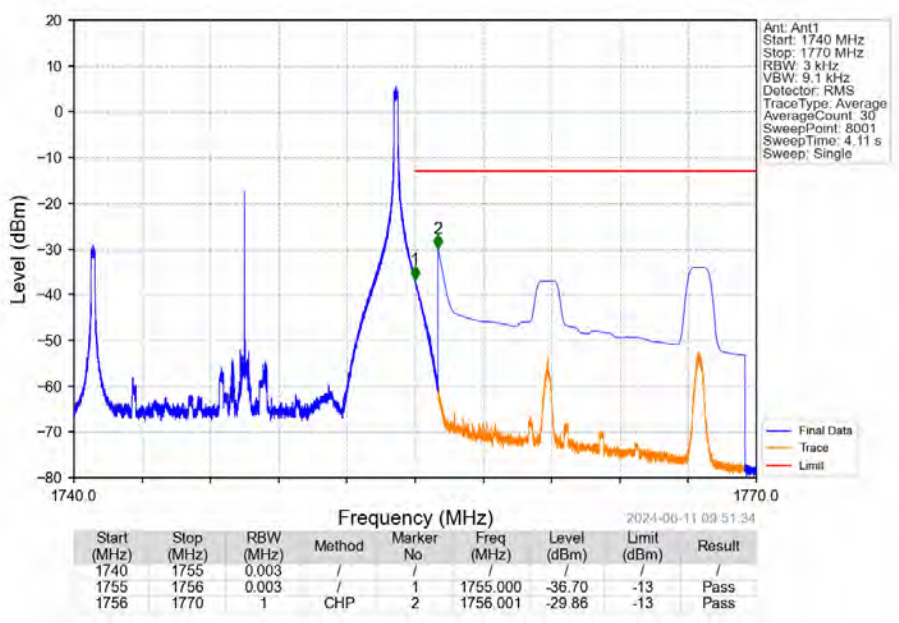
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV



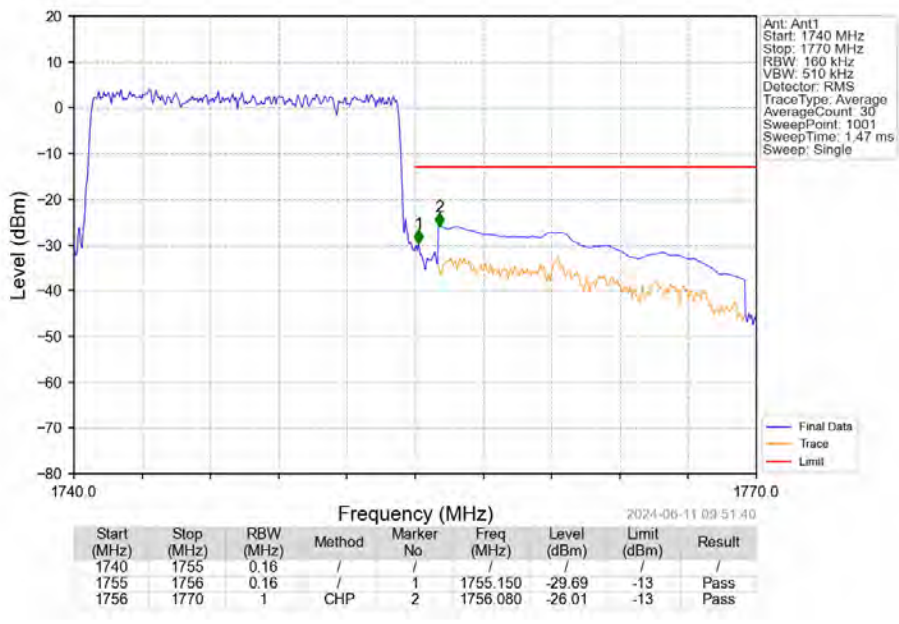
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV



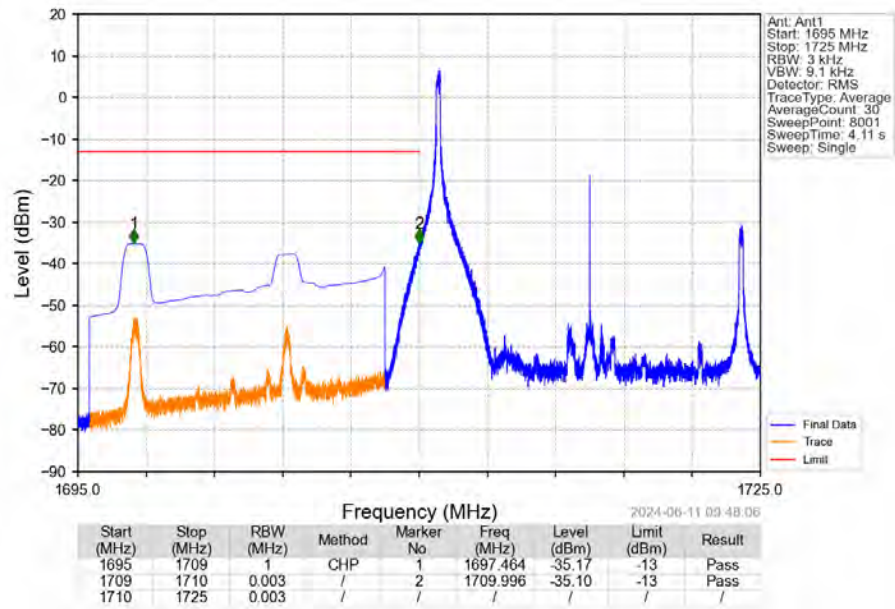
Band4 15MHz QPSK HCH 1747.5MHz RB 1 74 NTV



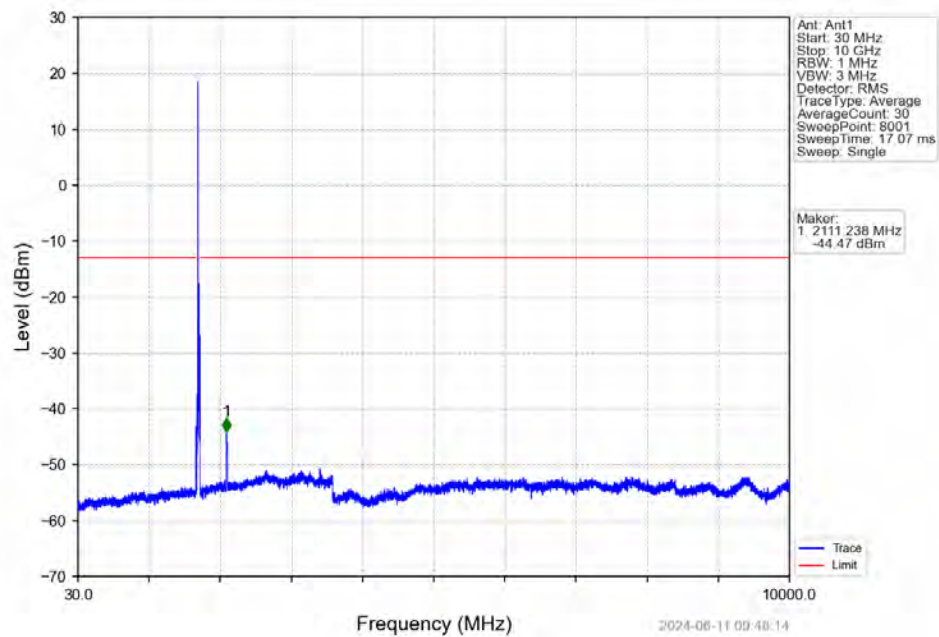
Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTV



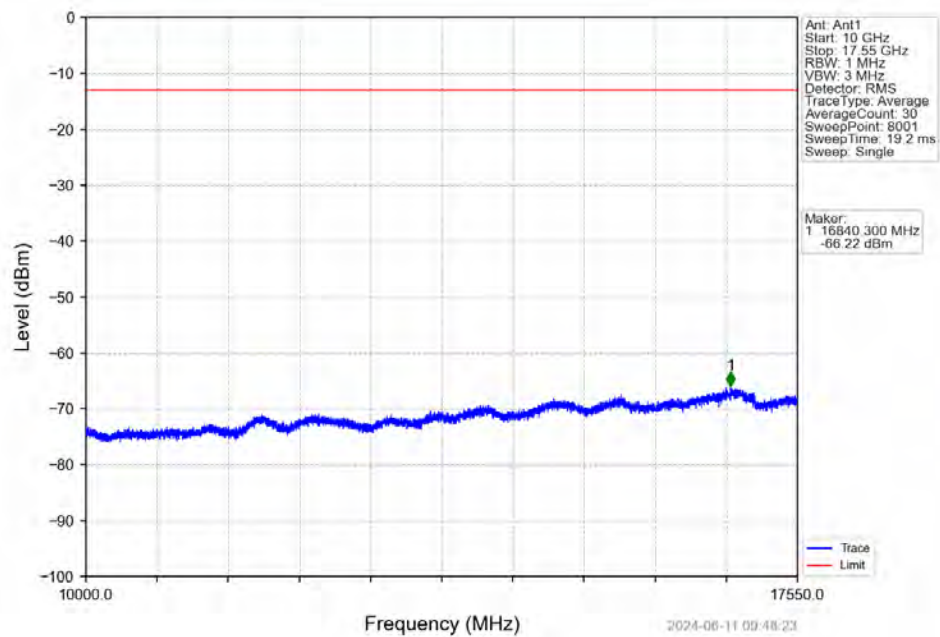
Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTNV



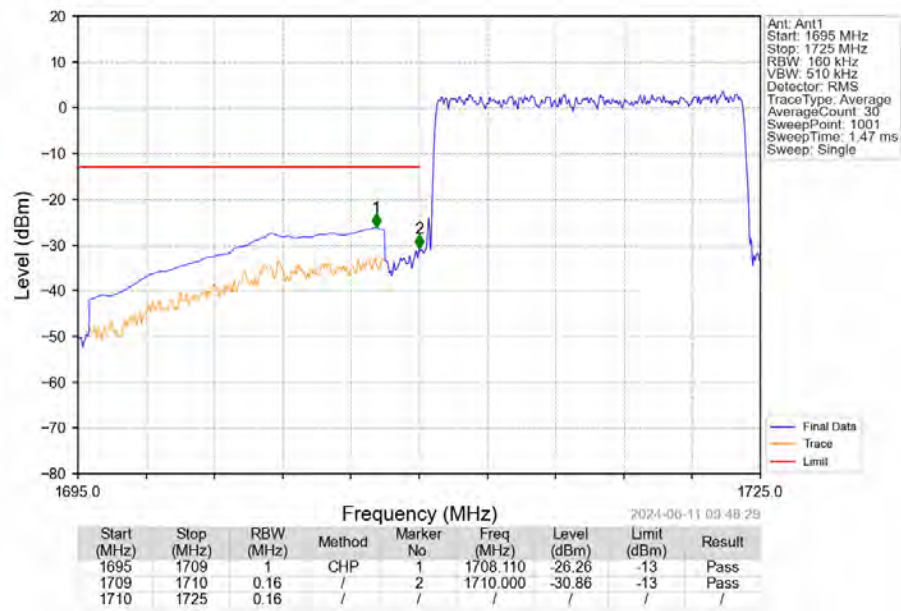
Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTNV



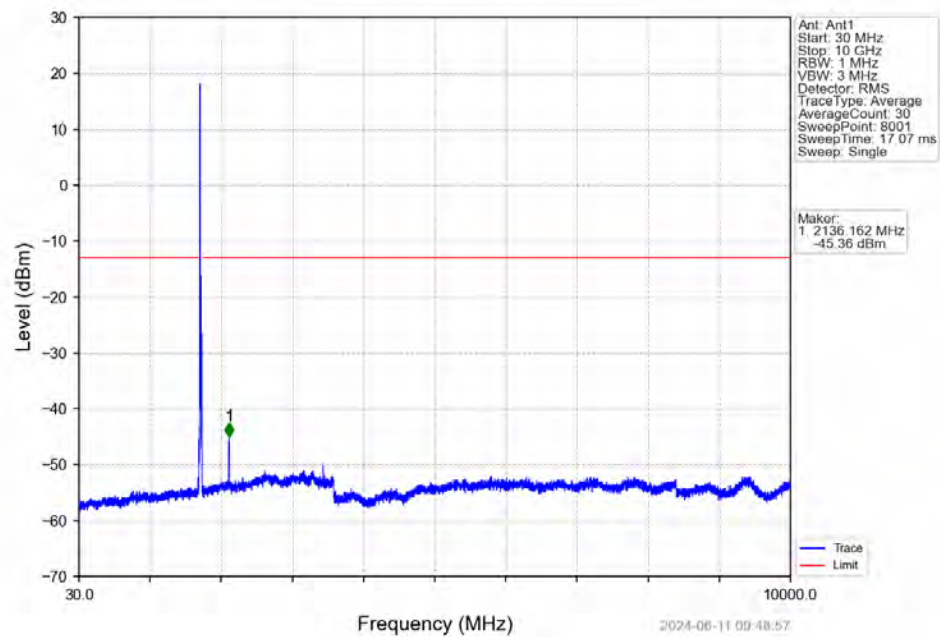
Band4 15MHz 16QAM LCH 1717.5MHz RB 1 0 NTV



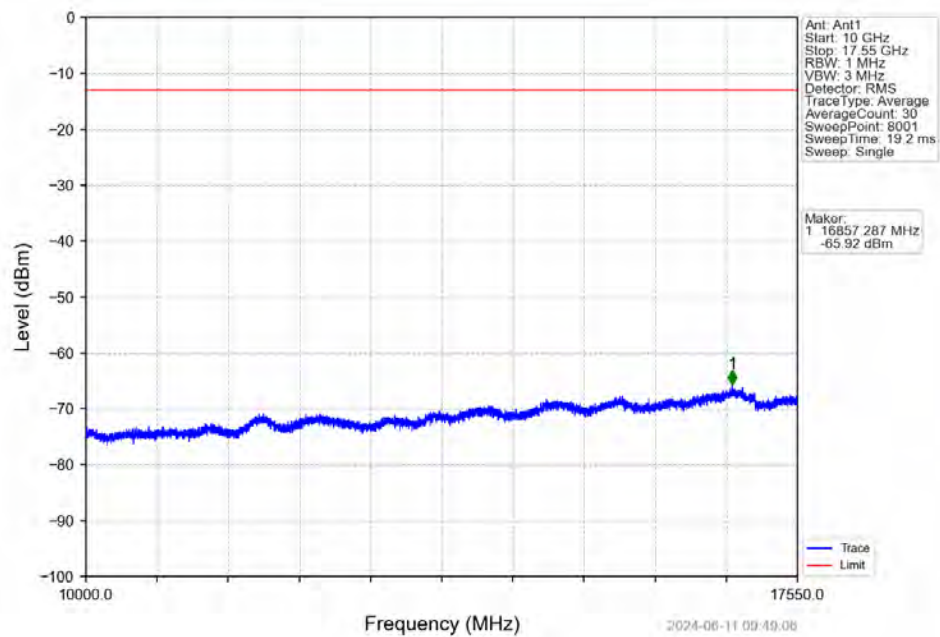
Band4 15MHz 16QAM LCH 1717.5MHz RB 75 0 NTV



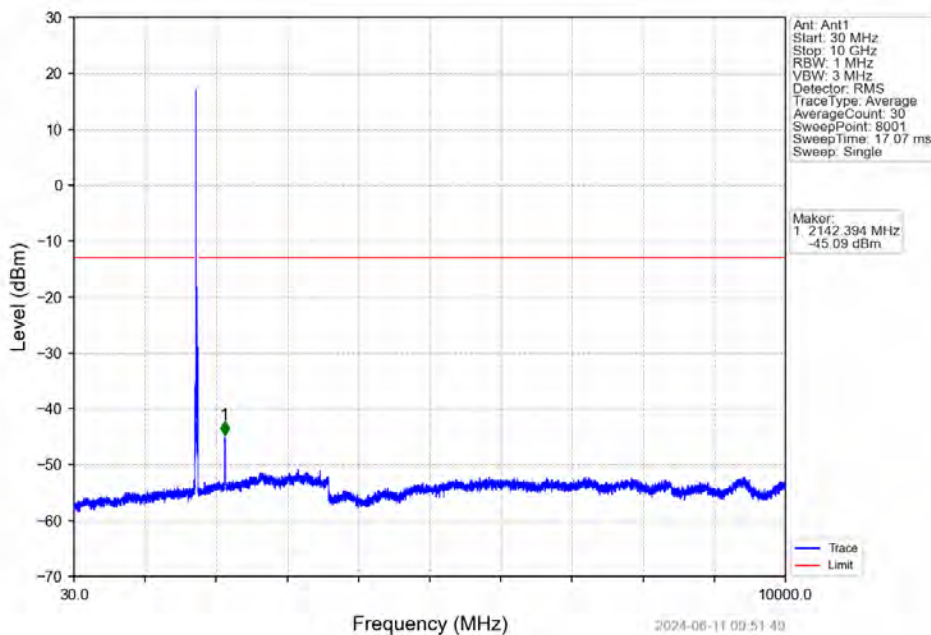
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



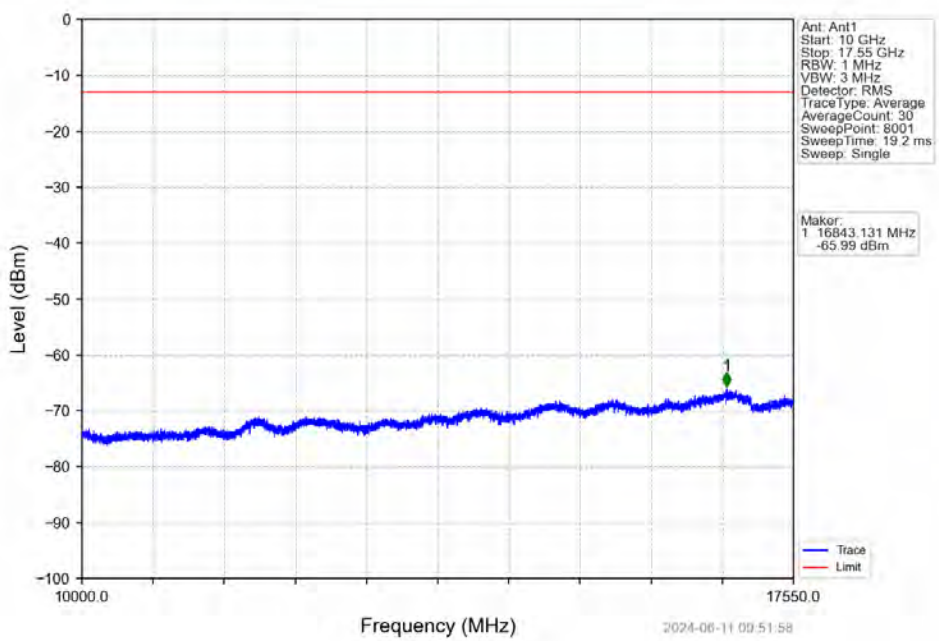
Band4 15MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



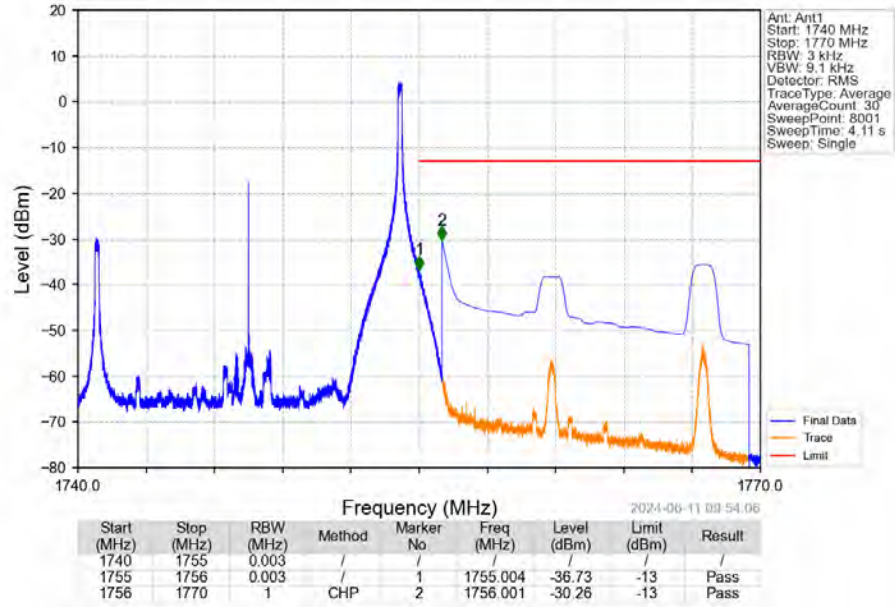
Band4 15MHz 16QAM HCH 1747.5MHz RB 1 0 NTNV



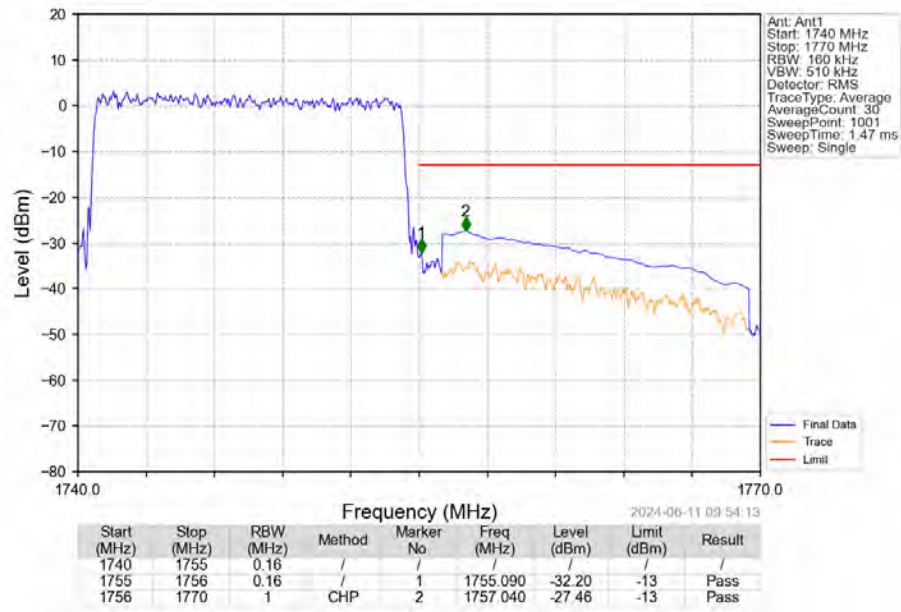
Band4 15MHz 16QAM HCH 1747.5MHz RB 1 0 NTNV



Band4 15MHz 16QAM HCH 1747.5MHz RB 1 74 NTNV



Band4 15MHz 16QAM HCH 1747.5MHz RB 75 0 NTNV

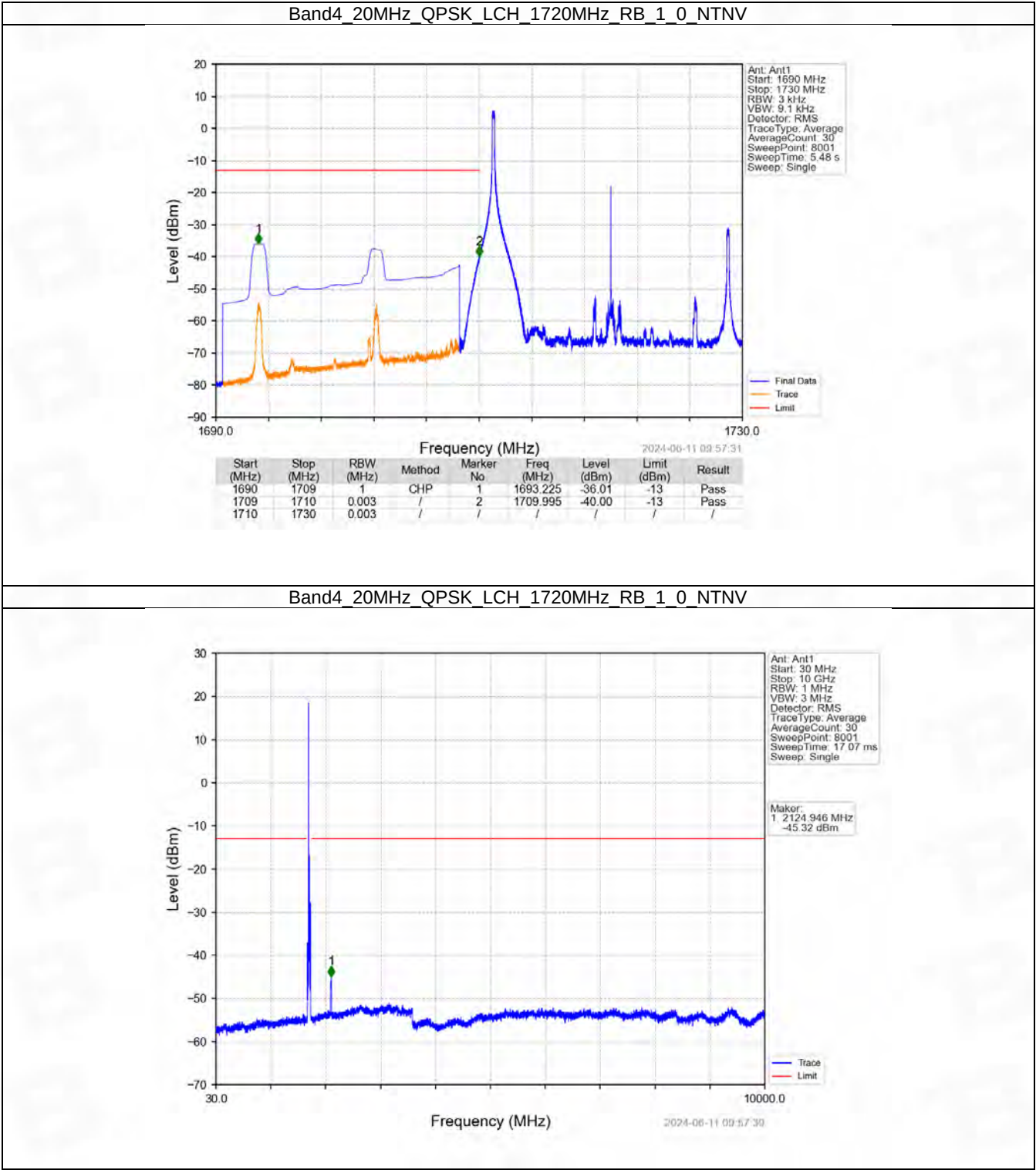


6.6 B4_20MHz

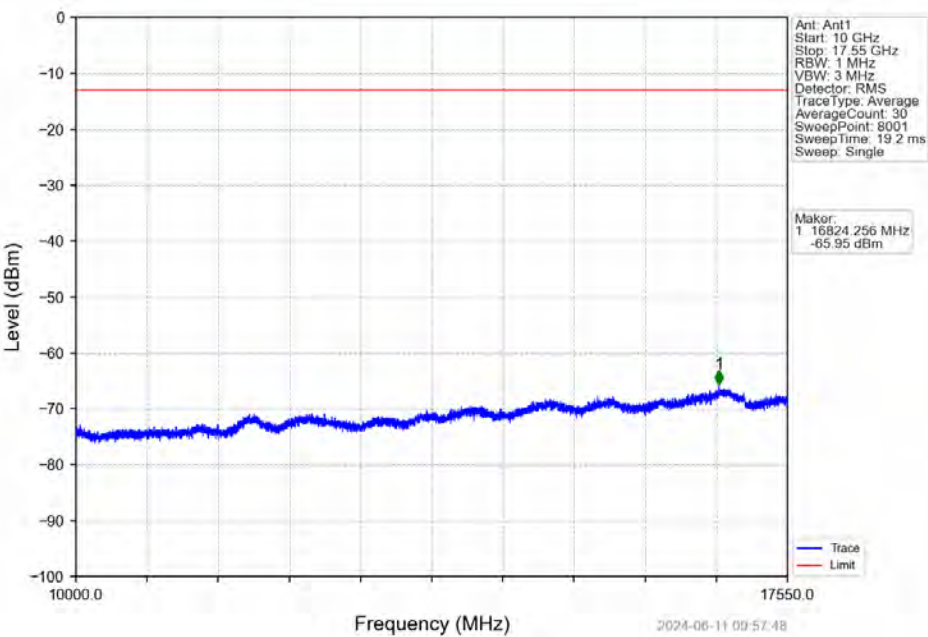
6.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

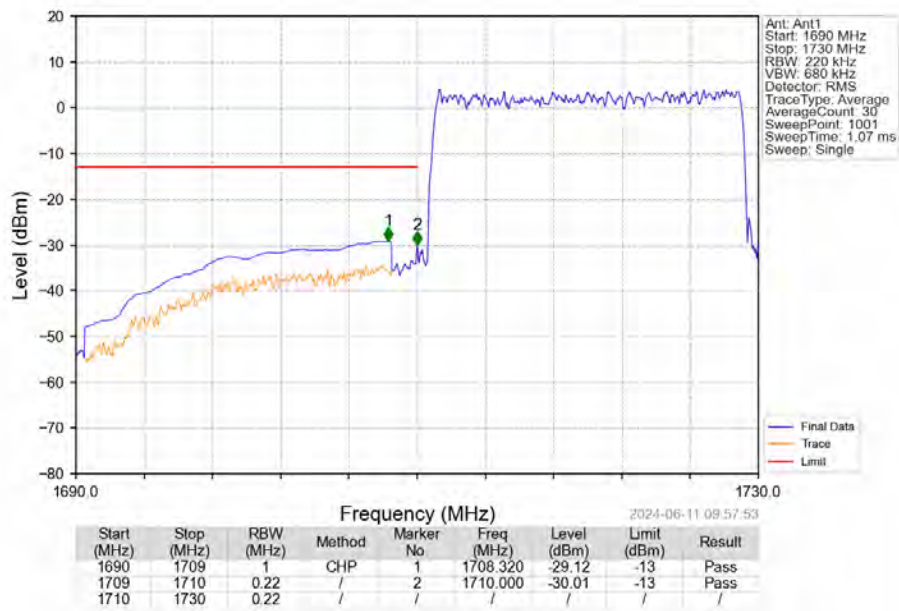
6.6.2 Test Graph



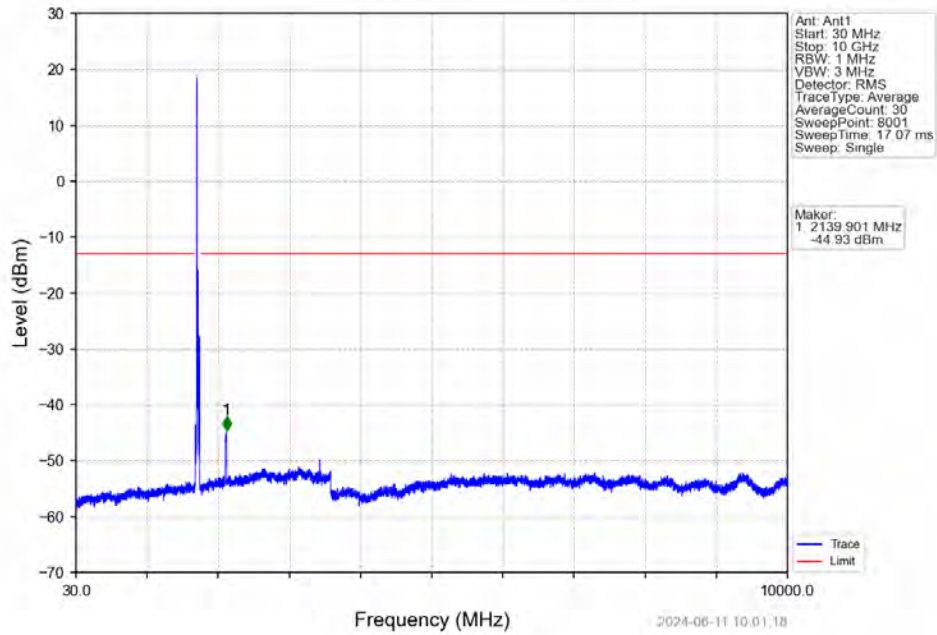
Band4 20MHz QPSK LCH 1720MHz RB 1 0 NTN



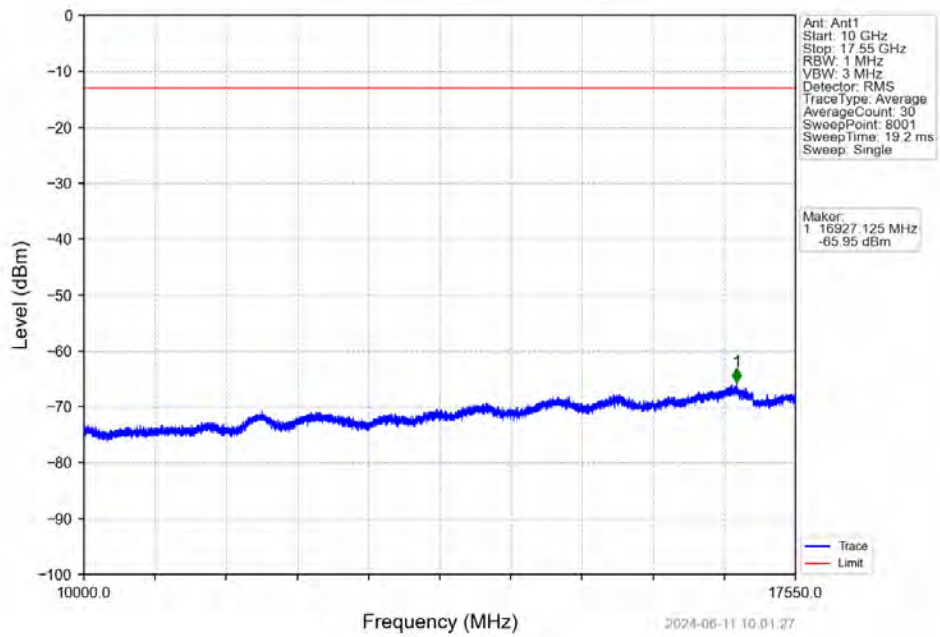
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTN



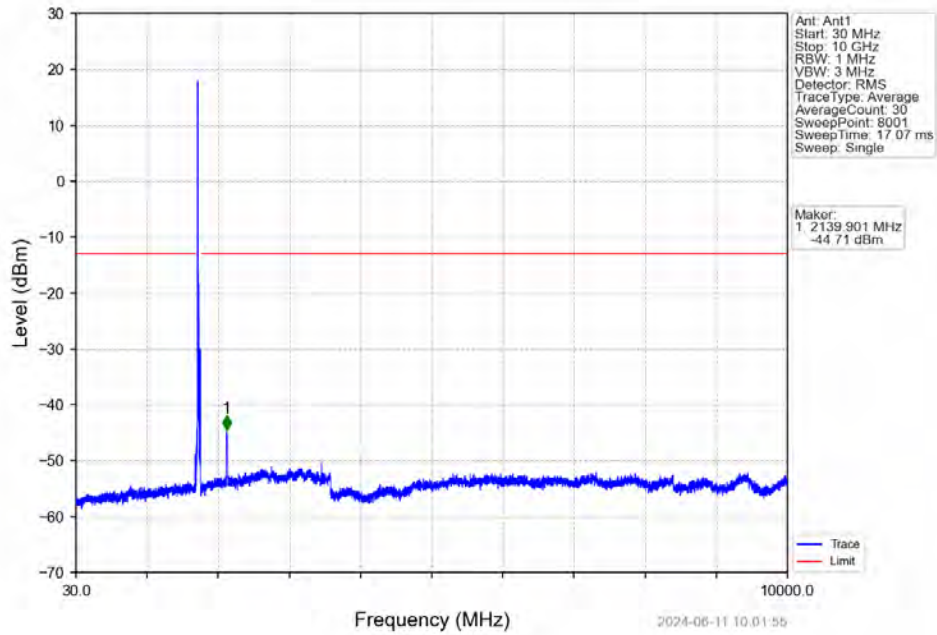
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



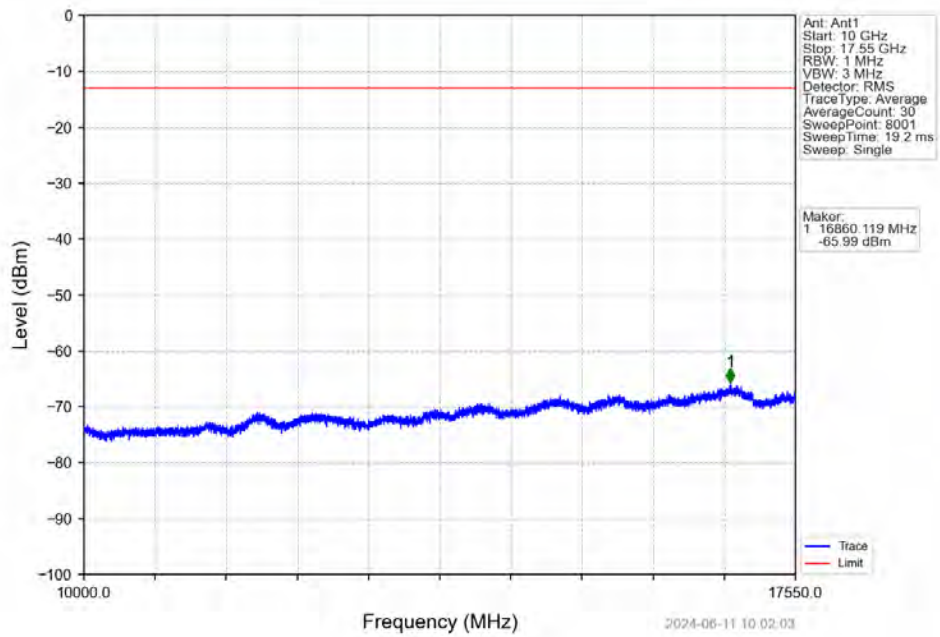
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



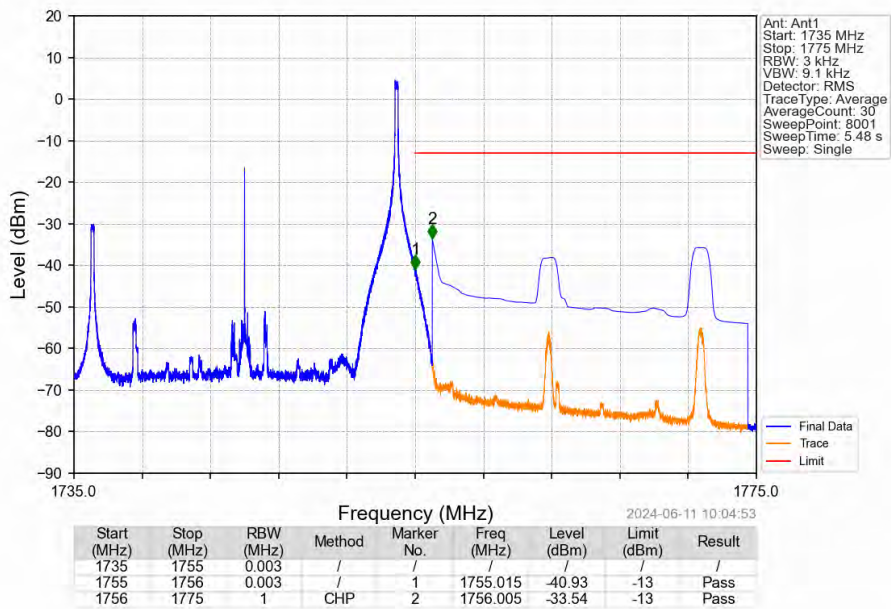
Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTN



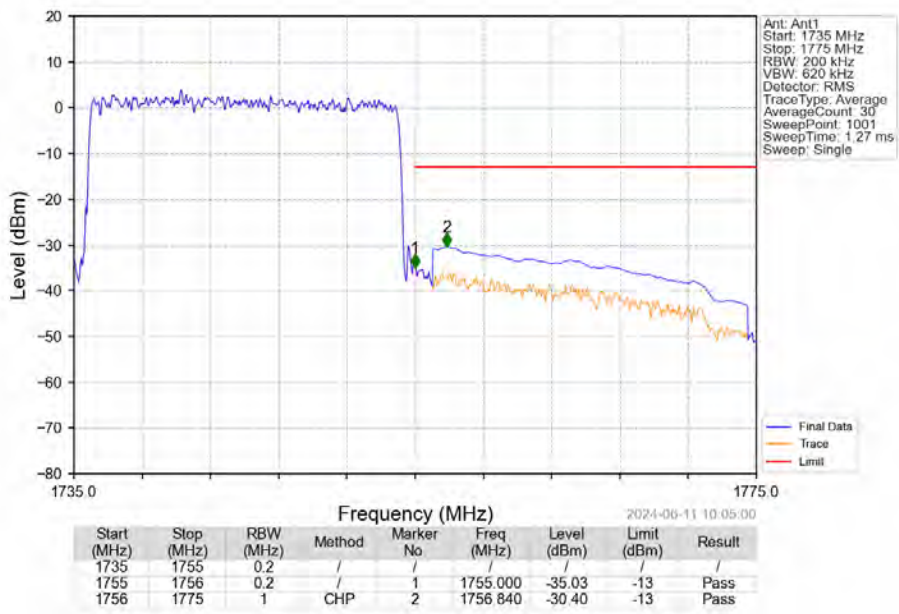
Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTN



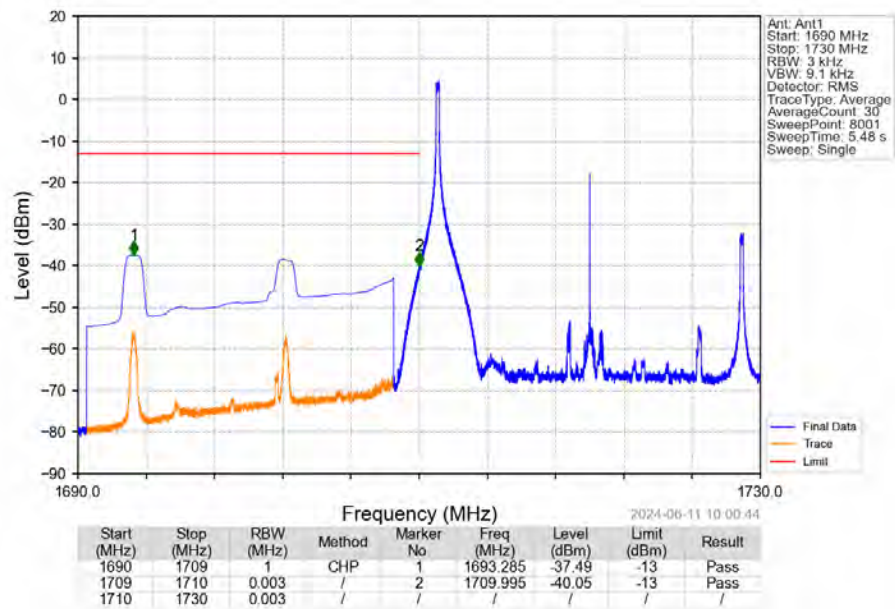
Band4 20MHz QPSK HCH 1745MHz RB 1 99 NTNV



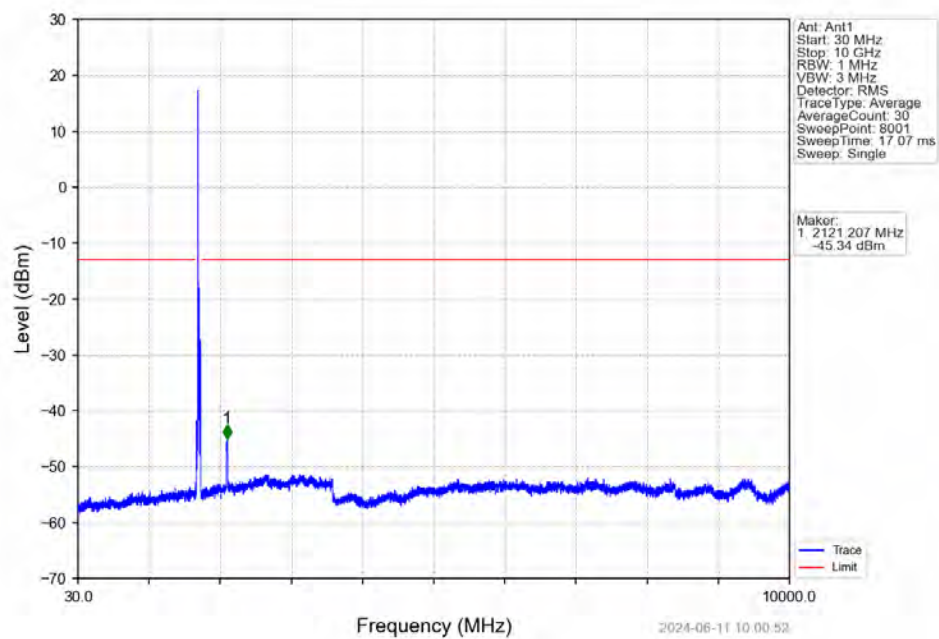
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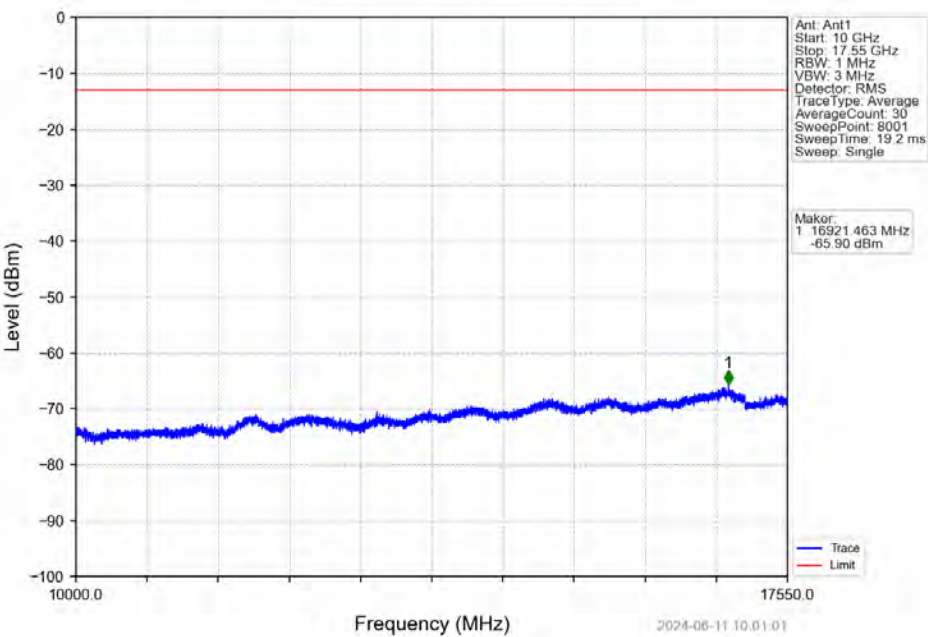
Band4 20MHz 16QAM LCH 1720MHz RB 1 0 NTNV



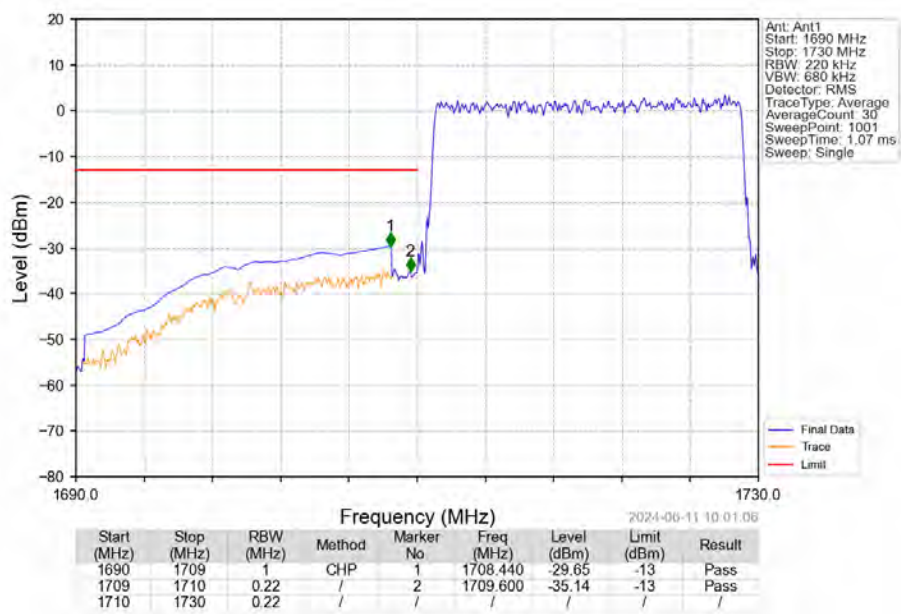
Band4 20MHz 16QAM LCH 1720MHz RB 1 0 NTNV



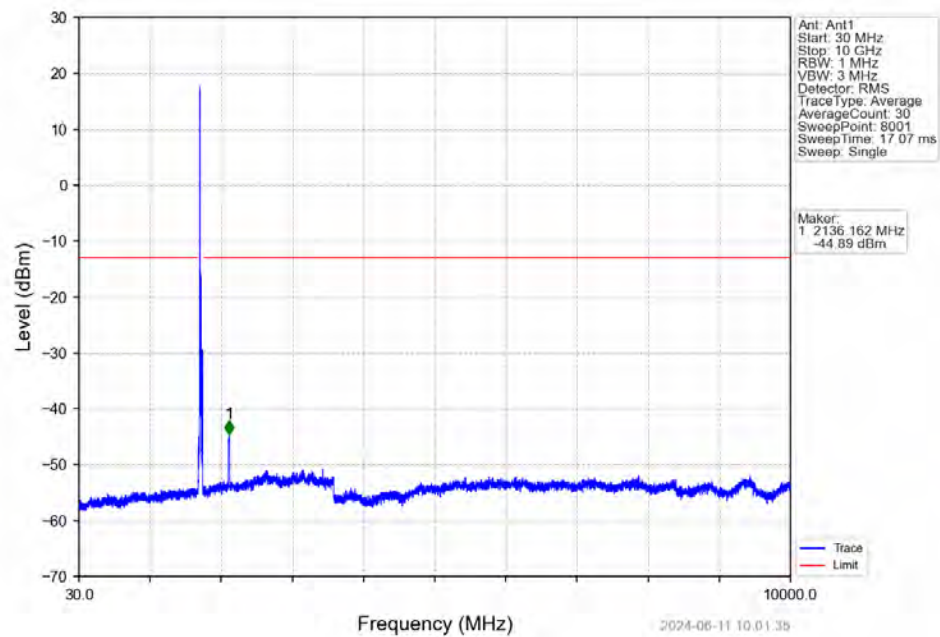
Band4 20MHz 16QAM LCH 1720MHz RB 1 0 NTNV



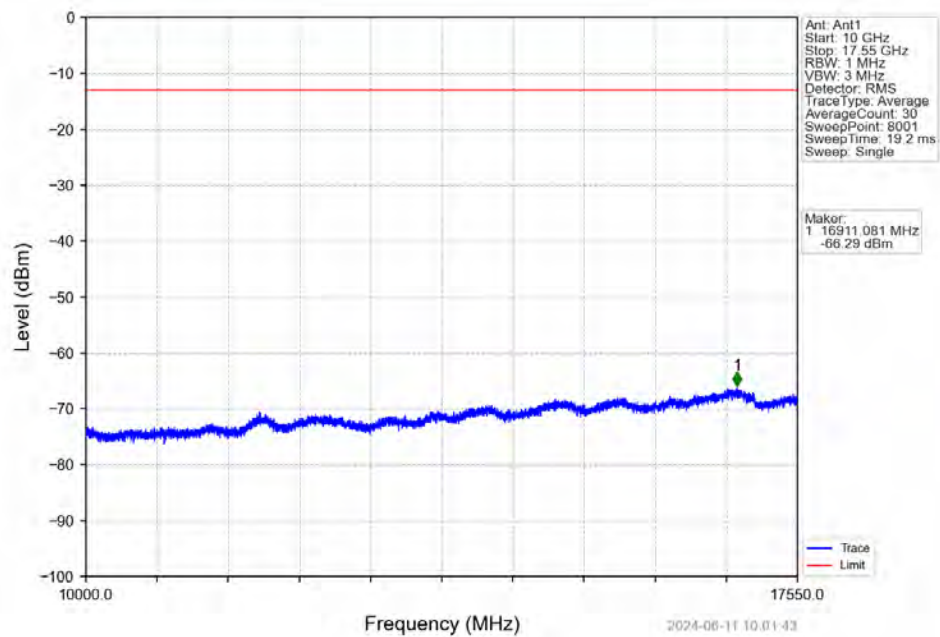
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



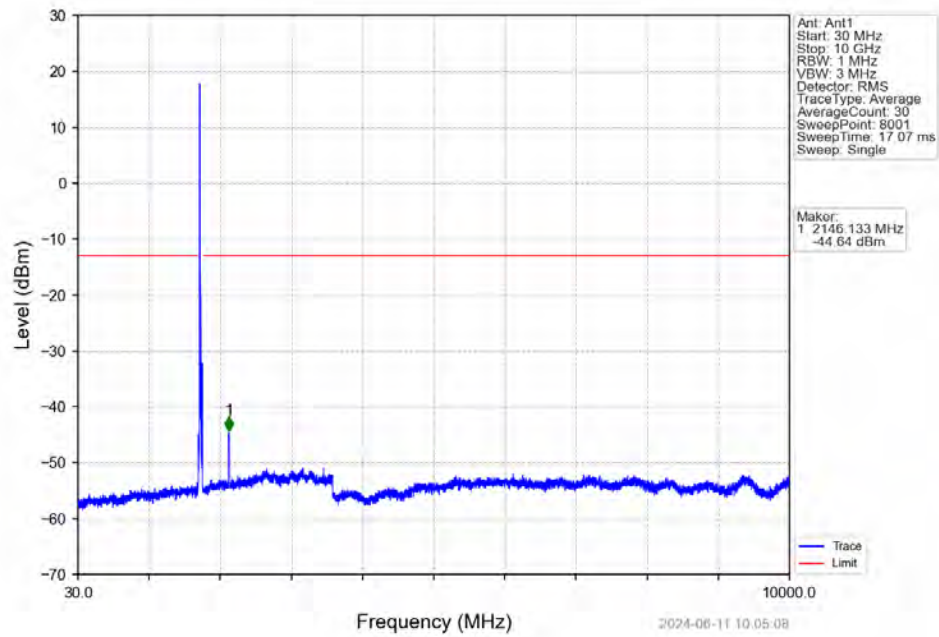
Band4 20MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



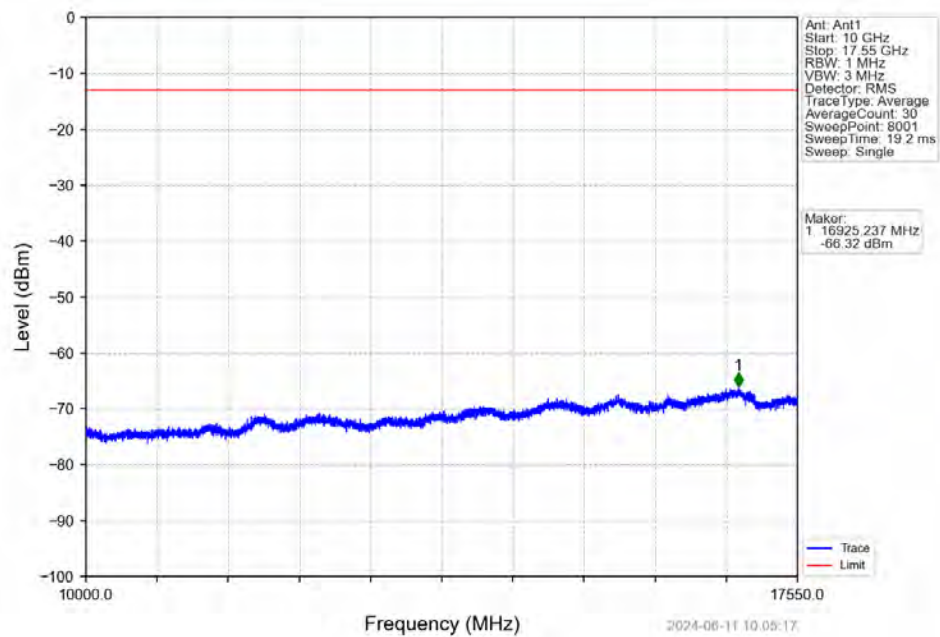
Band4 20MHz 16QAM MCH 1732.5MHz RB 1 0 NTV



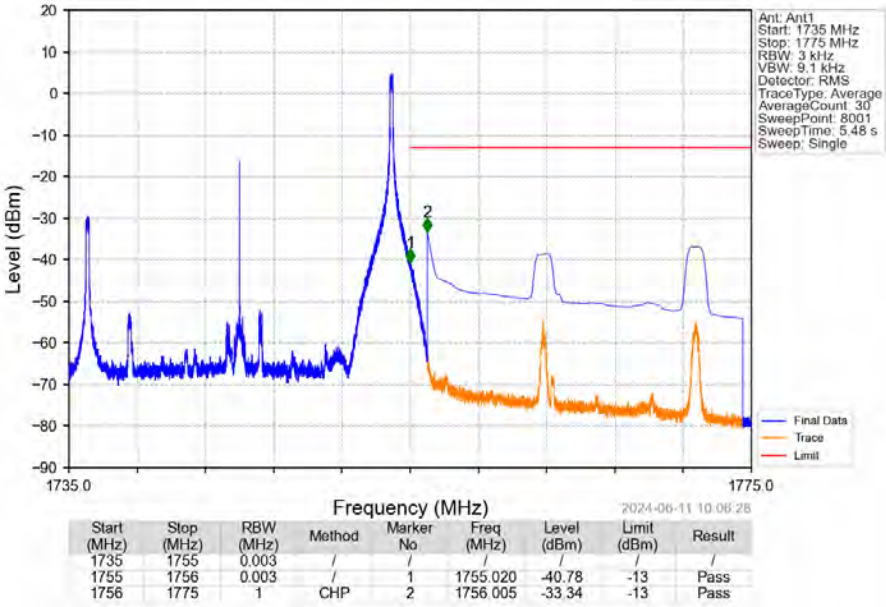
Band4 20MHz 16QAM HCH 1745MHz RB 1 0 NTNV



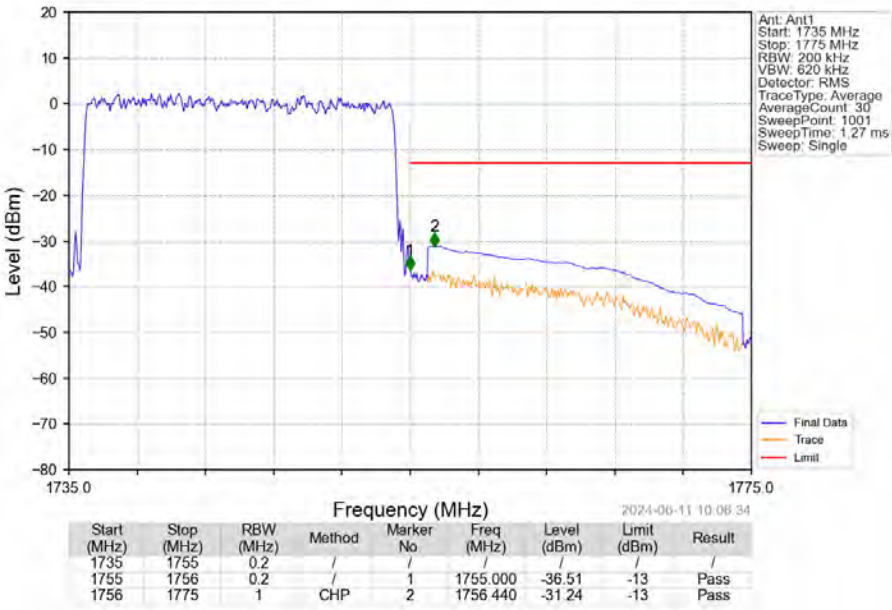
Band4 20MHz 16QAM HCH 1745MHz RB 1 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 1 99 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 100 0 NTNV



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)
4	1.4	1710.7	1754.3	0.2911	0.0061	ppm	1M12G7D	27L	24.64
4	1.4	1710.7	1754.3	0.2291	0.0102	ppm	1M12W7D	27L	23.60
4	3	1711.5	1753.5	0.2799	0.0103	ppm	2M74G7D	27L	24.47
4	3	1711.5	1753.5	0.2377	0.0121	ppm	2M72W7D	27L	23.76
4	5	1712.5	1752.5	0.2692	0.0075	ppm	4M59G7D	27L	24.30
4	5	1712.5	1752.5	0.2286	0.0133	ppm	4M58W7D	27L	23.59
4	10	1715	1750	0.2742	0.0060	ppm	9M10G7D	27L	24.38
4	10	1715	1750	0.2366	0.0076	ppm	9M10W7D	27L	23.74
4	15	1717.5	1747.5	0.2630	0.0117	ppm	13M7G7D	27L	24.20
4	15	1717.5	1747.5	0.2301	0.0149	ppm	13M6W7D	27L	23.62
4	20	1720	1745	0.2710	0.0073	ppm	18M2G7D	27L	24.33
4	20	1720	1745	0.2270	0.0060	ppm	18M2W7D	27L	23.56

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
4	1.4	1710.7	1754.3	0.2710	0.0061	ppm	1M12G7D	27L	24.33
4	1.4	1710.7	1754.3	0.2133	0.0102	ppm	1M12W7D	27L	23.29
4	3	1711.5	1753.5	0.2606	0.0103	ppm	2M74G7D	27L	24.16
4	3	1711.5	1753.5	0.2213	0.0121	ppm	2M72W7D	27L	23.45
4	5	1712.5	1752.5	0.2506	0.0075	ppm	4M59G7D	27L	23.99
4	5	1712.5	1752.5	0.2128	0.0133	ppm	4M58W7D	27L	23.28
4	10	1715	1750	0.2553	0.0060	ppm	9M10G7D	27L	24.07
4	10	1715	1750	0.2203	0.0076	ppm	9M10W7D	27L	23.43
4	15	1717.5	1747.5	0.2449	0.0117	ppm	13M7G7D	27L	23.89
4	15	1717.5	1747.5	0.2143	0.0149	ppm	13M6W7D	27L	23.31
4	20	1720	1745	0.2523	0.0073	ppm	18M2G7D	27L	24.02
4	20	1720	1745	0.2113	0.0060	ppm	18M2W7D	27L	23.25