

FCC LTE Band Test Data

FCC ID : 2BDNA-GS-THINKNODE

Company: : Shenzhen Elecrow Limited

EUT : ThinkNode LoRaWAN Gateway

Model Number : G1-US915

Reviewed By : 

1. Conducted Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1710.7	1	0	22.27	<=30	Pass
			2	22.31	<=30	Pass
			5	22.63	<=30	Pass
		3	0	22.67	<=30	Pass
			2	22.73	<=30	Pass
			3	22.68	<=30	Pass
		6	0	22.83	<=30	Pass
	1732.5	1	0	22.74	<=30	Pass
			2	22.72	<=30	Pass
			5	22.71	<=30	Pass
		3	0	22.71	<=30	Pass
			2	22.70	<=30	Pass
			3	22.70	<=30	Pass
		6	0	22.69	<=30	Pass
	1754.3	1	0	22.50	<=30	Pass
			2	22.46	<=30	Pass
			5	22.43	<=30	Pass
		3	0	22.42	<=30	Pass
			2	22.40	<=30	Pass
			3	22.40	<=30	Pass
		6	0	22.39	<=30	Pass
16QAM	1710.7	1	0	22.89	<=30	Pass
			2	22.86	<=30	Pass
			5	22.98	<=30	Pass
		3	0	22.95	<=30	Pass
			2	22.93	<=30	Pass
			3	22.92	<=30	Pass
		6	0	22.90	<=30	Pass
	1732.5	1	0	22.68	<=30	Pass
			2	22.68	<=30	Pass
			5	22.67	<=30	Pass
		3	0	22.66	<=30	Pass
			2	22.66	<=30	Pass
			3	22.65	<=30	Pass
		6	0	22.65	<=30	Pass
	1754.3	1	0	22.37	<=30	Pass
			2	22.38	<=30	Pass
			5	22.36	<=30	Pass
		3	0	22.36	<=30	Pass
			2	22.35	<=30	Pass
			3	22.35	<=30	Pass
		6	0	22.34	<=30	Pass

1.1.2 B4_3MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1711.5	1	0	23.89	<=30	Pass

			7	23.87	<=30	Pass
			14	23.67	<=30	Pass
		8	0	22.56	<=30	Pass
			4	22.57	<=30	Pass
			7	22.48	<=30	Pass
		15	0	22.50	<=30	Pass
	1732.5	1	0	23.49	<=30	Pass
			7	23.67	<=30	Pass
			14	23.54	<=30	Pass
		8	0	22.42	<=30	Pass
			4	22.49	<=30	Pass
			7	22.50	<=30	Pass
		15	0	22.48	<=30	Pass
	1753.5	1	0	23.39	<=30	Pass
			7	23.38	<=30	Pass
			14	23.16	<=30	Pass
		8	0	22.31	<=30	Pass
			4	22.28	<=30	Pass
			7	22.21	<=30	Pass
		15	0	22.25	<=30	Pass
16QAM	1711.5	1	0	22.57	<=30	Pass
			7	22.66	<=30	Pass
			14	22.47	<=30	Pass
		8	0	21.46	<=30	Pass
			4	21.49	<=30	Pass
			7	21.42	<=30	Pass
		15	0	21.37	<=30	Pass
	1732.5	1	0	22.09	<=30	Pass
			7	22.34	<=30	Pass
			14	22.22	<=30	Pass
		8	0	21.47	<=30	Pass
			4	21.57	<=30	Pass
			7	21.56	<=30	Pass
		15	0	21.53	<=30	Pass
	1753.5	1	0	22.20	<=30	Pass
			7	22.24	<=30	Pass
			14	22.02	<=30	Pass
		8	0	21.36	<=30	Pass
			4	21.33	<=30	Pass
			7	21.26	<=30	Pass
		15	0	21.27	<=30	Pass

1.1.3 B4_5MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1712.5	1	0	23.63	<=30	Pass
			13	24.19	<=30	Pass
			24	23.75	<=30	Pass
		12	0	22.76	<=30	Pass
			6	22.80	<=30	Pass
			13	22.58	<=30	Pass
		25	0	22.63	<=30	Pass
	1732.5	1	0	23.16	<=30	Pass
			13	23.58	<=30	Pass
			24	23.34	<=30	Pass
		12	0	22.26	<=30	Pass

16QAM	1752.5	25	6	22.44	<=30	Pass
			13	22.40	<=30	Pass
			0	22.34	<=30	Pass
		1	0	23.73	<=30	Pass
			13	23.81	<=30	Pass
			24	23.41	<=30	Pass
		12	0	22.40	<=30	Pass
			6	22.45	<=30	Pass
			13	22.23	<=30	Pass
		25	0	22.32	<=30	Pass
	1712.5	1	0	22.49	<=30	Pass
			13	22.71	<=30	Pass
			24	22.29	<=30	Pass
		12	0	21.55	<=30	Pass
			6	21.63	<=30	Pass
			13	21.44	<=30	Pass
		25	0	21.52	<=30	Pass
	1732.5	1	0	22.11	<=30	Pass
			13	22.61	<=30	Pass
			24	22.39	<=30	Pass
		12	0	21.31	<=30	Pass
			6	21.50	<=30	Pass
			13	21.46	<=30	Pass
		25	0	21.41	<=30	Pass
	1752.5	1	0	22.40	<=30	Pass
			13	22.55	<=30	Pass
			24	22.13	<=30	Pass
		12	0	21.38	<=30	Pass
			6	21.44	<=30	Pass
			13	21.23	<=30	Pass
		25	0	21.37	<=30	Pass

1.1.4 B4_10MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1715	1	0	23.62	<=30	Pass
			25	23.84	<=30	Pass
			49	23.48	<=30	Pass
		25	0	22.70	<=30	Pass
			13	22.61	<=30	Pass
			25	22.52	<=30	Pass
		50	0	22.54	<=30	Pass
	1732.5	1	0	23.09	<=30	Pass
			25	23.73	<=30	Pass
			49	23.45	<=30	Pass
		25	0	22.25	<=30	Pass
			13	22.47	<=30	Pass
			25	22.54	<=30	Pass
		50	0	22.38	<=30	Pass
	1750	1	0	23.48	<=30	Pass
			25	23.89	<=30	Pass
			49	23.42	<=30	Pass
		25	0	22.43	<=30	Pass
			13	22.57	<=30	Pass
			25	22.49	<=30	Pass
		50	0	22.46	<=30	Pass

16QAM	1715	1	0	22.33	<=30	Pass
			25	22.48	<=30	Pass
			49	22.17	<=30	Pass
		12	0	22.41	<=30	Pass
			19	22.40	<=30	Pass
			38	22.26	<=30	Pass
		27	0	21.39	<=30	Pass
	1732.5	1	0	21.99	<=30	Pass
			25	22.70	<=30	Pass
			49	22.45	<=30	Pass
		12	0	22.09	<=30	Pass
			19	22.54	<=30	Pass
			38	22.49	<=30	Pass
		27	0	21.23	<=30	Pass
	1750	1	0	21.91	<=30	Pass
			25	22.40	<=30	Pass
			49	21.89	<=30	Pass
		12	0	22.27	<=30	Pass
			19	22.54	<=30	Pass
			38	22.29	<=30	Pass
		27	23	21.48	<=30	Pass

1.1.5 B4_15MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1717.5	1	0	23.70	<=30	Pass
			38	23.60	<=30	Pass
			74	23.85	<=30	Pass
		36	0	22.69	<=30	Pass
			18	22.73	<=30	Pass
			39	22.80	<=30	Pass
		75	0	22.77	<=30	Pass
	1732.5	1	0	23.26	<=30	Pass
			38	24.01	<=30	Pass
			74	24.16	<=30	Pass
		36	0	22.45	<=30	Pass
			18	22.99	<=30	Pass
			39	23.20	<=30	Pass
		75	0	22.96	<=30	Pass
	1747.5	1	0	23.65	<=30	Pass
			38	23.82	<=30	Pass
			74	23.74	<=30	Pass
		36	0	22.56	<=30	Pass
			18	22.72	<=30	Pass
			39	22.81	<=30	Pass
		75	0	22.59	<=30	Pass
16QAM	1717.5	1	0	23.00	<=30	Pass
			38	22.93	<=30	Pass
			74	23.24	<=30	Pass
		12	0	23.29	<=30	Pass
			31	23.21	<=30	Pass
			63	23.31	<=30	Pass
		27	0	22.19	<=30	Pass
	1732.5	1	0	22.71	<=30	Pass
			38	23.51	<=30	Pass
			74	23.69	<=30	Pass

		12	0	22.89	<=30	Pass
			31	23.53	<=30	Pass
			63	23.62	<=30	Pass
	1747.5	27	0	22.07	<=30	Pass
		1	0	22.73	<=30	Pass
			38	23.00	<=30	Pass
			74	22.88	<=30	Pass
		12	0	22.59	<=30	Pass
			31	22.72	<=30	Pass
			63	22.61	<=30	Pass
		27	48	21.62	<=30	Pass

1.1.6 B4_20MHz

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Verdict	
		Size	Offset		Limit	
QPSK	1720	1	0	23.10	<=30	Pass
			50	23.60	<=30	Pass
			99	23.50	<=30	Pass
		50	0	21.75	<=30	Pass
			25	21.98	<=30	Pass
			50	22.38	<=30	Pass
		100	0	20.50	<=30	Pass
	1732.5	1	0	20.57	<=30	Pass
			50	21.36	<=30	Pass
			99	20.86	<=30	Pass
		50	0	19.92	<=30	Pass
			25	20.21	<=30	Pass
			50	20.00	<=30	Pass
		100	0	19.91	<=30	Pass
	1745	1	0	20.60	<=30	Pass
			50	20.89	<=30	Pass
			99	20.85	<=30	Pass
		50	0	19.45	<=30	Pass
			25	19.63	<=30	Pass
			50	19.89	<=30	Pass
		100	0	19.50	<=30	Pass
16QAM	1720	1	0	20.11	<=30	Pass
			50	20.60	<=30	Pass
			99	20.55	<=30	Pass
		12	0	20.31	<=30	Pass
			44	20.57	<=30	Pass
			88	21.21	<=30	Pass
		27	0	19.98	<=30	Pass
	1732.5	1	0	19.82	<=30	Pass
			50	20.58	<=30	Pass
			99	20.14	<=30	Pass
		12	0	19.96	<=30	Pass
			44	20.39	<=30	Pass
			88	20.18	<=30	Pass
		27	0	18.83	<=30	Pass
	1745	1	0	19.52	<=30	Pass
			50	19.78	<=30	Pass
			99	19.57	<=30	Pass
		12	0	19.66	<=30	Pass
			44	19.70	<=30	Pass
			88	19.77	<=30	Pass
		27	73	18.89	<=30	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

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	0.272	0.0002	-2.5 to 2.5	Pass
					3.85	2.246	0.0013	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.532	0.0015	-2.5 to 2.5	Pass
				-20	3.85	1.874	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				50	3.85	1.845	0.0011	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-1.602	-0.0009	-2.5 to 2.5	Pass
					3.85	-1.144	-0.0007	-2.5 to 2.5	Pass
					4.43	0.844	0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
				10	3.85	2.160	0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				40	3.85	2.446	0.0014	-2.5 to 2.5	Pass
				50	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-3.848	-0.0022	-2.5 to 2.5	Pass
					3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-1.130	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-1.760	-0.0010	-2.5 to 2.5	Pass
				30	3.85	1.645	0.0009	-2.5 to 2.5	Pass
				40	3.85	3.319	0.0019	-2.5 to 2.5	Pass
				50	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	0.114	0.0001	-2.5 to 2.5	Pass
					3.85	0.930	0.0005	-2.5 to 2.5	Pass
					4.43	0.300	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-2.174	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-3.548	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				40	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				50	3.85	1.059	0.0006	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	0.358	0.0002	-2.5 to 2.5	Pass
					3.85	0.329	0.0002	-2.5 to 2.5	Pass
					4.43	-0.830	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.043	0.0000	-2.5 to 2.5	Pass

				-10	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				0	3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
				10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				40	3.85	1.359	0.0008	-2.5 to 2.5	Pass
	1754.3	6	0	50	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				20	3.27	0.572	0.0003	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	3.548	0.0020	-2.5 to 2.5	Pass
				0	3.85	0.701	0.0004	-2.5 to 2.5	Pass
				10	3.85	0.329	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
				40	3.85	1.073	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.429	0.0002	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

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	-1.917	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.429	-0.0003	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-2.189	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				0	3.85	1.788	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				30	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.85	0.958	0.0006	-2.5 to 2.5	Pass
	1732.5	15	0	50	3.85	1.302	0.0008	-2.5 to 2.5	Pass
				20	3.27	-0.200	-0.0001	-2.5 to 2.5	Pass
					3.85	1.359	0.0008	-2.5 to 2.5	Pass
					4.43	1.559	0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.275	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				0	3.85	2.217	0.0013	-2.5 to 2.5	Pass
				10	3.85	1.259	0.0007	-2.5 to 2.5	Pass
				30	3.85	2.589	0.0015	-2.5 to 2.5	Pass
	1753.5	15	0	40	3.85	0.858	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				20	3.27	-1.702	-0.0010	-2.5 to 2.5	Pass
					3.85	-2.646	-0.0015	-2.5 to 2.5	Pass
					4.43	0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	1.273	0.0007	-2.5 to 2.5	Pass
				0	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	0.029	0.0000	-2.5 to 2.5	Pass
					3.27	0.029	0.0000	-2.5 to 2.5	Pass

					3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
					4.43	-1.216	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.587	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				30	3.85	0.601	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.544	0.0003	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.945	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				0	3.85	1.817	0.0010	-2.5 to 2.5	Pass
				10	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				30	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-0.744	-0.0004	-2.5 to 2.5	Pass
					3.85	-0.730	-0.0004	-2.5 to 2.5	Pass
					4.43	-1.202	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				0	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				50	3.85	0.758	0.0004	-2.5 to 2.5	Pass

2.1.3 B4_5MHz

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	1.302	0.0008	-2.5 to 2.5	Pass
					3.85	1.745	0.0010	-2.5 to 2.5	Pass
					4.43	0.200	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				30	3.85	2.074	0.0012	-2.5 to 2.5	Pass
				40	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				50	3.85	0.443	0.0003	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-1.388	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.129	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.300	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.601	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				10	3.85	1.817	0.0010	-2.5 to 2.5	Pass

				30	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.445	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
				20	3.27	2.131	0.0012	-2.5 to 2.5	Pass
					3.85	0.029	0.0000	-2.5 to 2.5	Pass
					4.43	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.85	3.176	0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				0	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				10	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				30	3.85	0.730	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				50	3.85	2.403	0.0014	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	0.730	0.0004	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	1.717	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				0	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	0.329	0.0002	-2.5 to 2.5	Pass
					3.85	-1.459	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.774	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				0	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				10	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				40	3.85	2.089	0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.230	-0.0007	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-0.086	0.0000	-2.5 to 2.5	Pass
					3.85	-0.544	-0.0003	-2.5 to 2.5	Pass
					4.43	0.587	0.0003	-2.5 to 2.5	Pass
				-30	3.85	2.289	0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.802	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.787	0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				40	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.515	0.0003	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

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	2.003	0.0012	-2.5 to 2.5	Pass
					3.85	1.445	0.0008	-2.5 to 2.5	Pass
					4.43	2.661	0.0016	-2.5 to 2.5	Pass
				-30	3.85	1.416	0.0008	-2.5 to 2.5	Pass

				-20	3.85	2.346	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.672	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-1.817	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				40	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	2.332	0.0013	-2.5 to 2.5	Pass
					3.85	0.000	0.0000	-2.5 to 2.5	Pass
					4.43	0.629	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.601	0.0003	-2.5 to 2.5	Pass
				-20	3.85	1.302	0.0007	-2.5 to 2.5	Pass
				-10	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				30	3.85	1.287	0.0007	-2.5 to 2.5	Pass
				40	3.85	1.574	0.0009	-2.5 to 2.5	Pass
				50	3.85	0.858	0.0005	-2.5 to 2.5	Pass
16QAM	1715	27	0	20	3.27	-0.672	-0.0004	-2.5 to 2.5	Pass
					3.85	-0.072	0.0000	-2.5 to 2.5	Pass
					4.43	0.486	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-2.689	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-3.190	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				50	3.85	1.545	0.0009	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	-0.801	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
					4.43	1.016	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-2.060	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				10	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				30	3.85	1.030	0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				50	3.85	0.272	0.0002	-2.5 to 2.5	Pass
	1750	27	23	20	3.27	0.257	0.0001	-2.5 to 2.5	Pass
					3.85	-2.518	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.372	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-2.174	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.631	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass

				30	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-2.232	-0.0013	-2.5 to 2.5	Pass

2.1.5 B4_15MHz

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	-5.364	-0.0031	-2.5 to 2.5	Pass
					3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
					4.43	-3.319	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-3.591	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.187	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-3.662	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-1.988	-0.0012	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	0.229	0.0001	-2.5 to 2.5	Pass
					3.85	0.973	0.0006	-2.5 to 2.5	Pass
					4.43	1.044	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				0	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				30	3.85	2.460	0.0014	-2.5 to 2.5	Pass
				40	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				50	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-4.449	-0.0025	-2.5 to 2.5	Pass
					3.85	-3.877	-0.0022	-2.5 to 2.5	Pass
					4.43	-4.492	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-3.333	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-1.745	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-3.061	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
16QAM	1717.5	27	0	20	3.27	-2.518	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
					4.43	-1.230	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	0.772	0.0004	-2.5 to 2.5	Pass
					3.85	1.602	0.0009	-2.5 to 2.5	Pass
					4.43	0.644	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass

				-20	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-2.003	-0.0012	-2.5 to 2.5	Pass
				0	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				10	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
				40	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				50	3.85	1.631	0.0009	-2.5 to 2.5	Pass
	1747.5	27	48	20	3.27	-1.116	-0.0006	-2.5 to 2.5	Pass
					3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
					4.43	-1.459	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.472	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.086	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

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	-5.264	-0.0031	-2.5 to 2.5	Pass
					3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0024	-2.5 to 2.5	Pass
				-30	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-3.548	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-2.174	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-1.717	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-1.287	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	0.358	0.0002	-2.5 to 2.5	Pass
					3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	1.688	0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				0	3.85	0.672	0.0004	-2.5 to 2.5	Pass
				10	3.85	1.116	0.0006	-2.5 to 2.5	Pass
				30	3.85	1.473	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				50	3.85	0.029	0.0000	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-3.819	-0.0022	-2.5 to 2.5	Pass
					3.85	-4.506	-0.0026	-2.5 to 2.5	Pass
					4.43	-3.247	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-3.619	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-3.362	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass

16QAM	1720	27	0	20	3.27	-1.416	-0.0008	-2.5 to 2.5	Pass
					3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
					4.43	-1.903	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.701	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-2.103	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
	1732.5	27	0	20	3.27	0.415	0.0002	-2.5 to 2.5	Pass
					3.85	1.416	0.0008	-2.5 to 2.5	Pass
					4.43	0.830	0.0005	-2.5 to 2.5	Pass
				-30	3.85	1.402	0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.003	0.0012	-2.5 to 2.5	Pass
				-10	3.85	-0.272	-0.0002	-2.5 to 2.5	Pass
				0	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.302	-0.0008	-2.5 to 2.5	Pass
	1745	27	73	20	3.27	-1.287	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.817	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-2.789	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-1.874	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				30	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				40	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				50	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTN					
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 B4_3MHz

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

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTV						
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

3.1.4 B4_10MHz

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	27	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

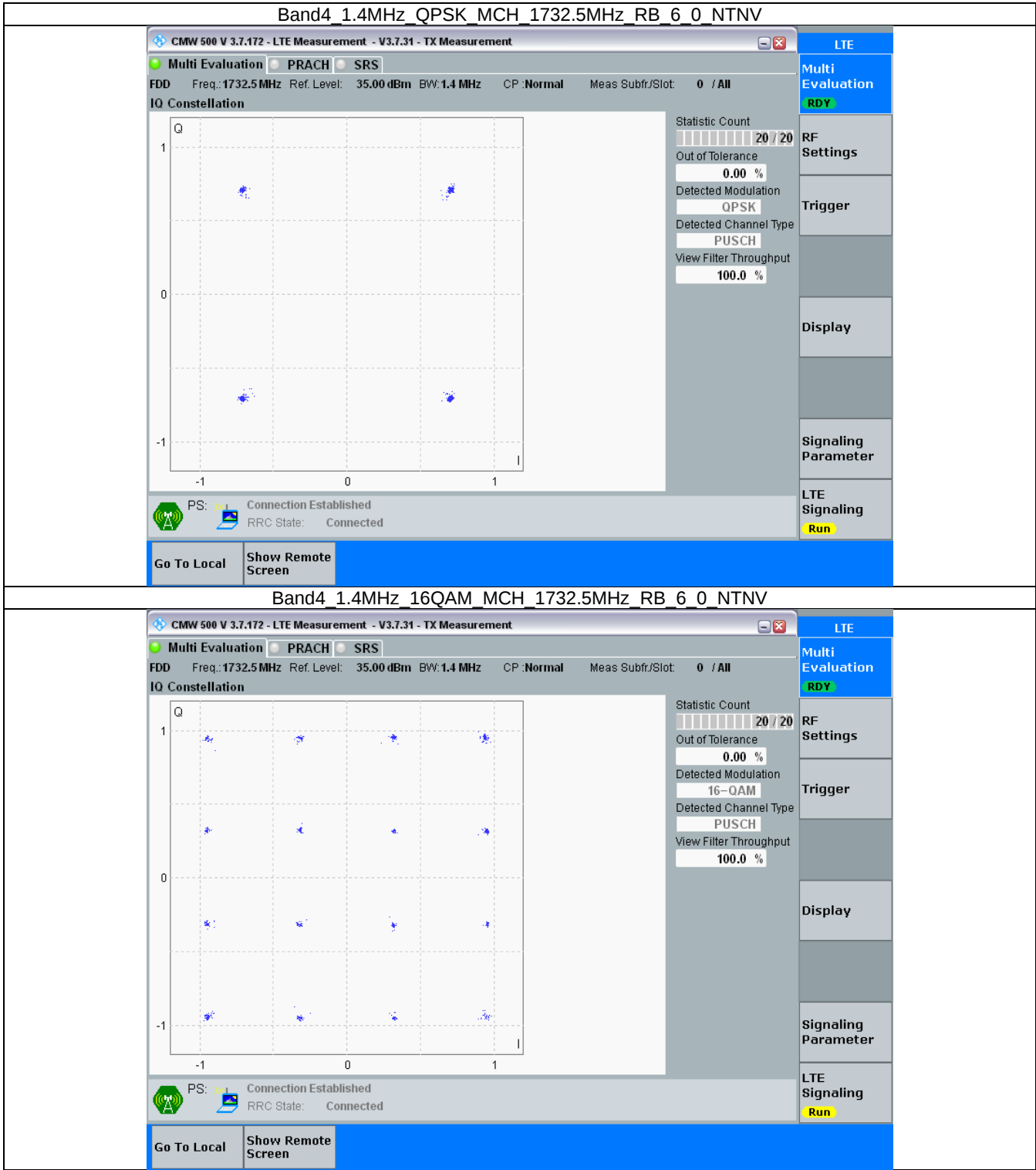
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

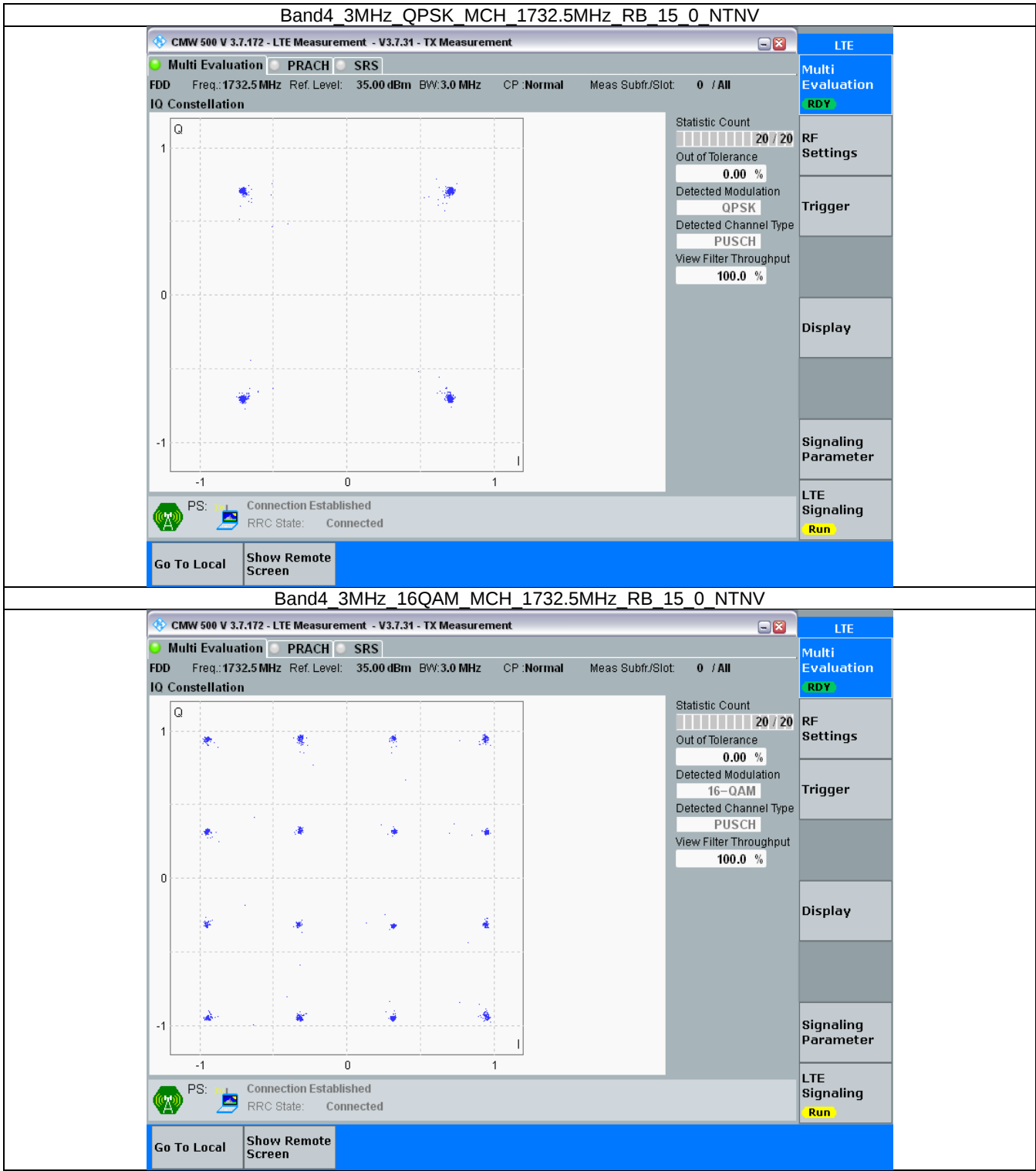
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

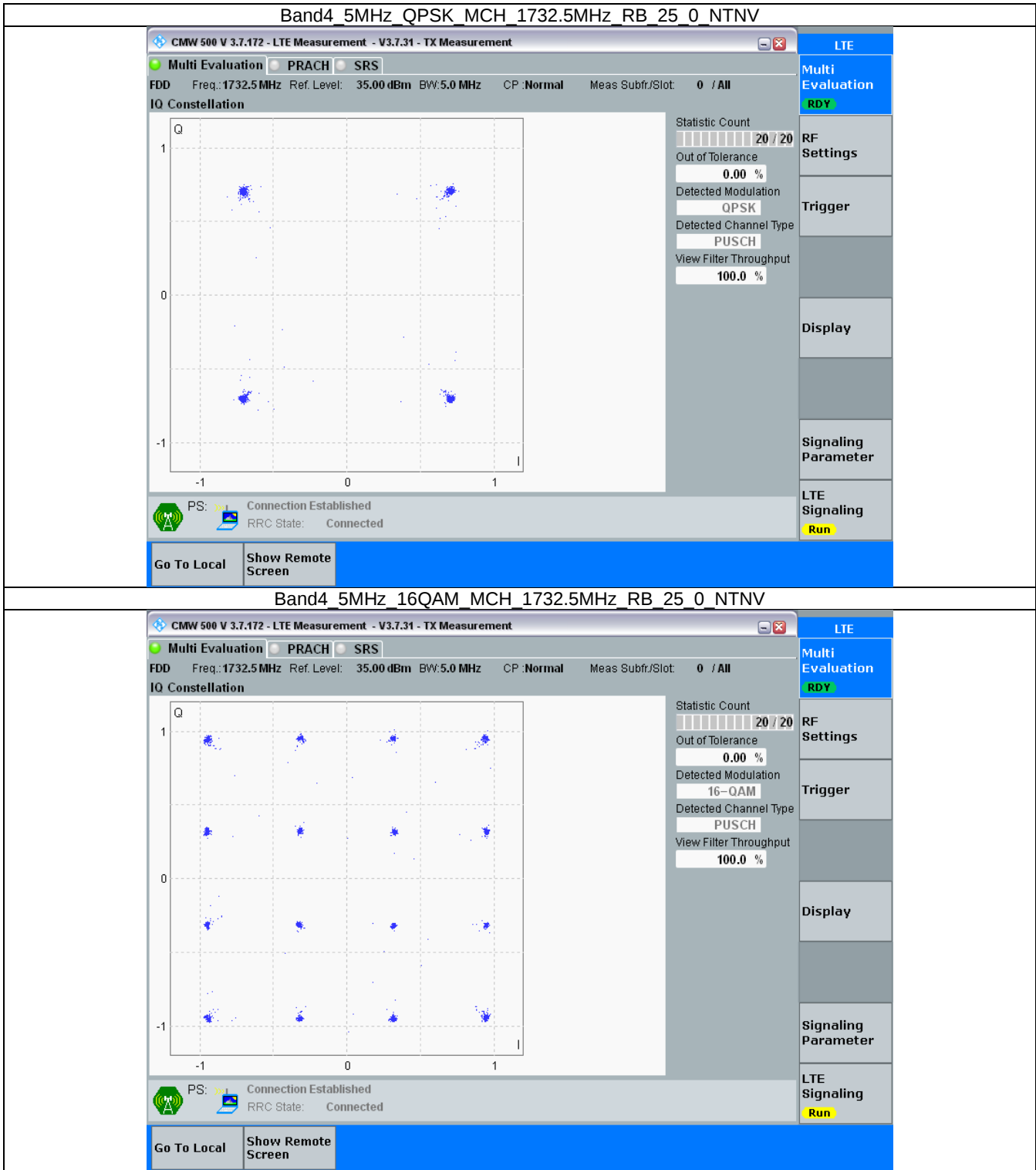
3.2.1 B4_1.4MHz



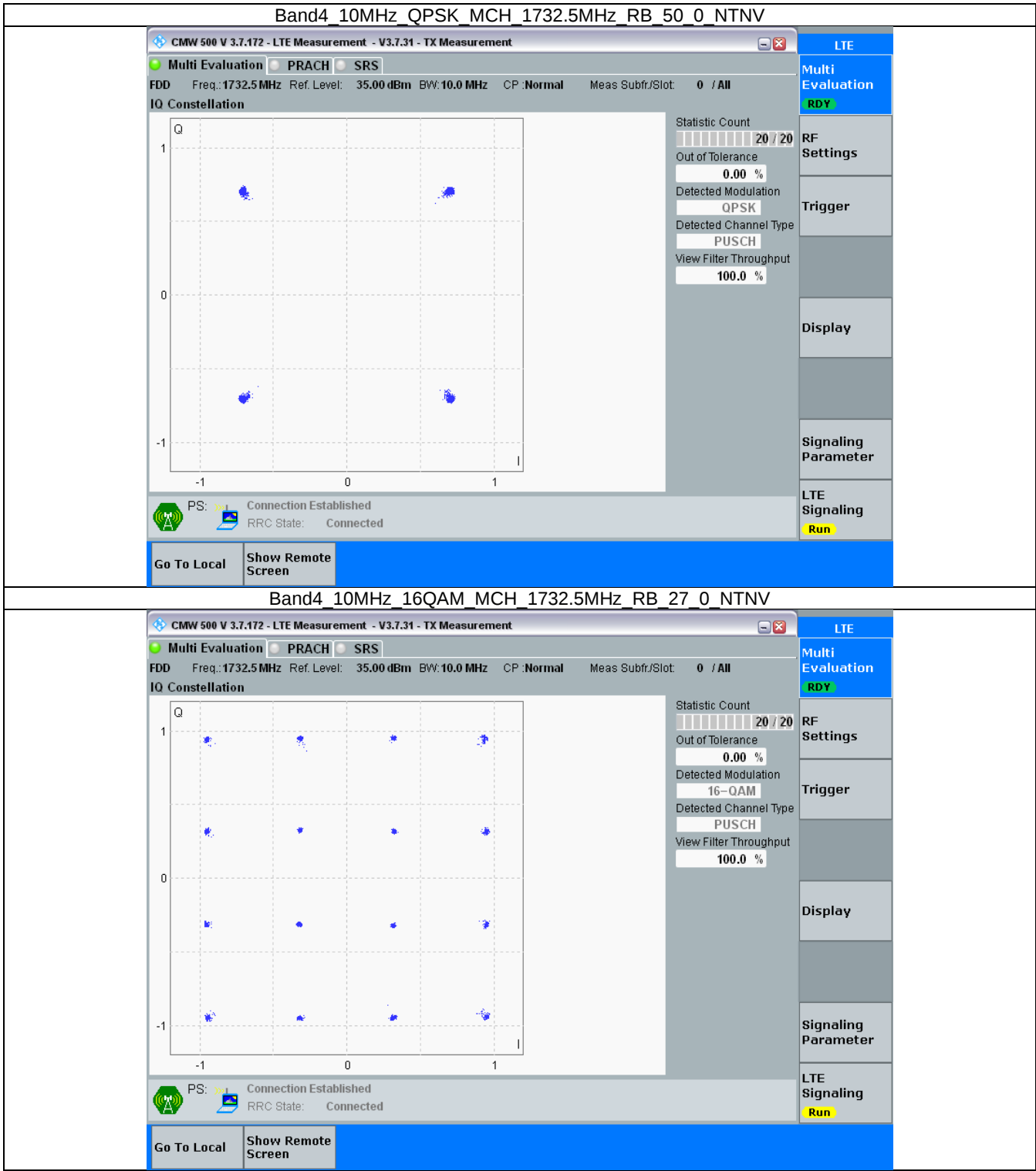
3.2.2 B4_3MHz



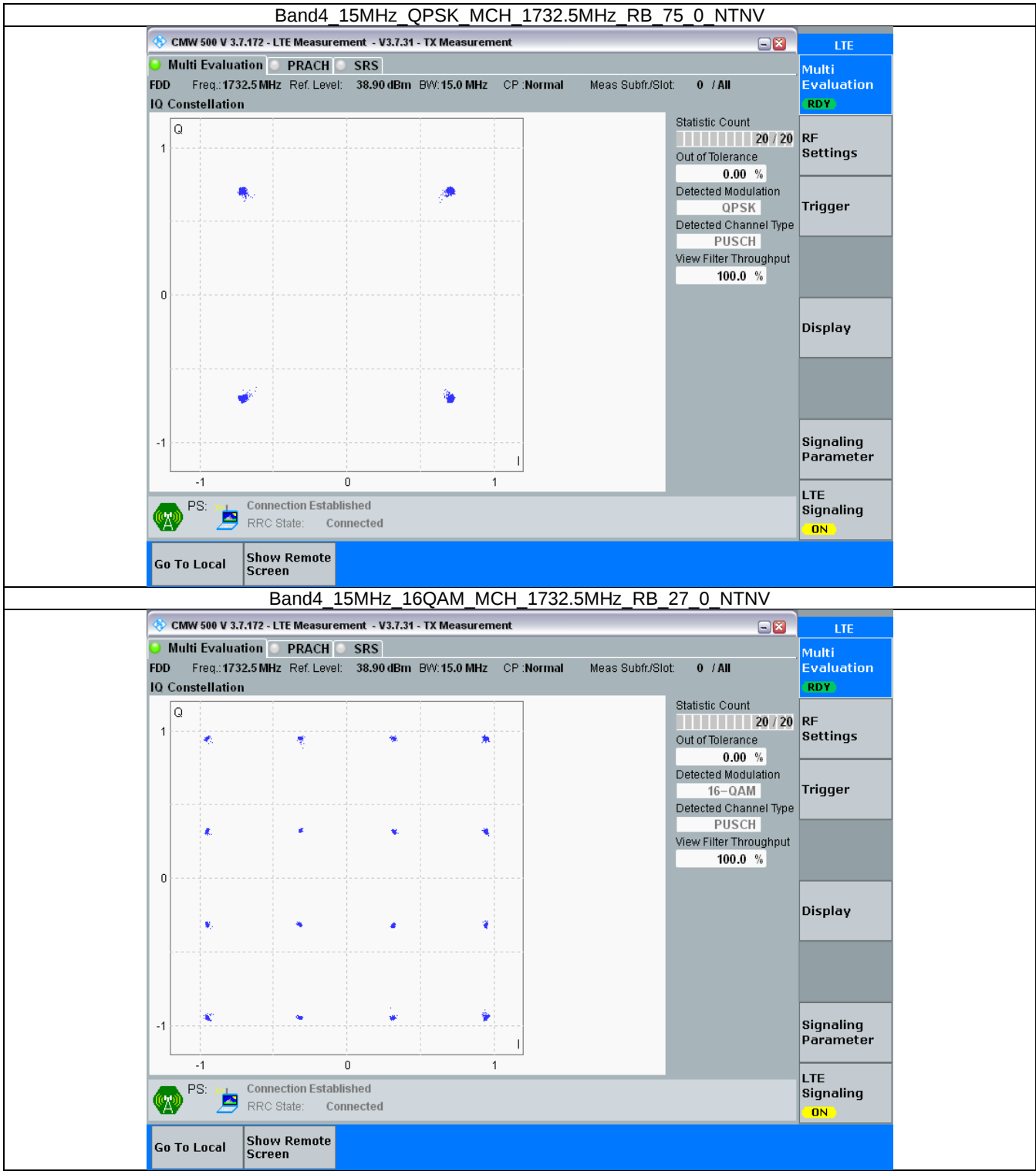
3.2.3 B4_5MHz



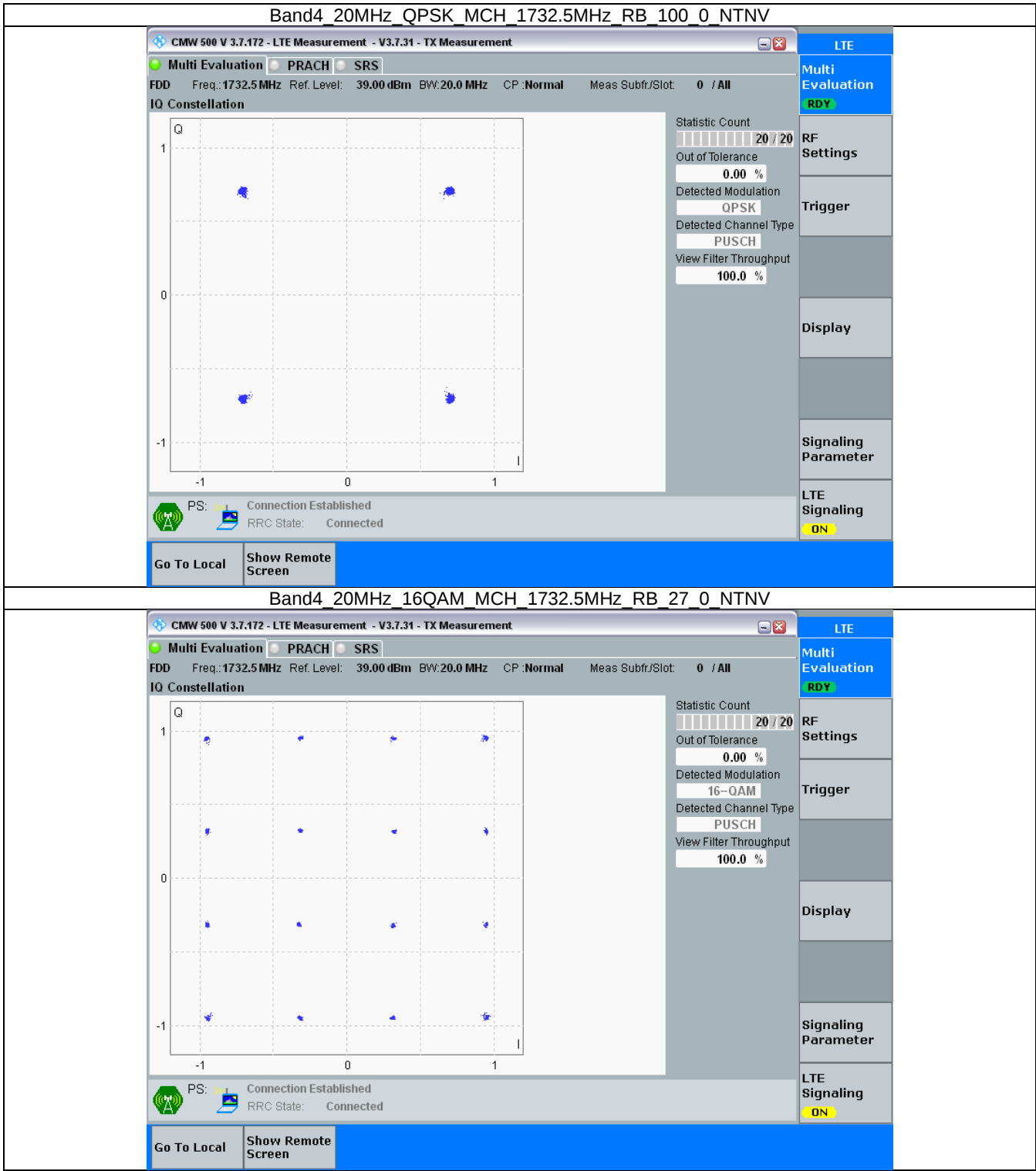
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.117	/	Pass
		1732.5	6	0	1.102	/	Pass
		1754.3	6	0	1.105	/	Pass
	16QAM	1710.7	6	0	1.113	/	Pass
		1732.5	6	0	1.108	/	Pass
		1754.3	6	0	1.107	/	Pass
3	QPSK	1711.5	15	0	2.738	/	Pass
		1732.5	15	0	2.749	/	Pass
		1753.5	15	0	2.739	/	Pass
	16QAM	1711.5	15	0	2.731	/	Pass
		1732.5	15	0	2.721	/	Pass
		1753.5	15	0	2.729	/	Pass
5	QPSK	1712.5	25	0	4.557	/	Pass
		1732.5	25	0	4.529	/	Pass
		1752.5	25	0	4.540	/	Pass
	16QAM	1712.5	25	0	4.534	/	Pass
		1732.5	25	0	4.540	/	Pass
		1752.5	25	0	4.533	/	Pass
10	QPSK	1715	50	0	9.078	/	Pass
		1732.5	50	0	9.058	/	Pass
		1750	50	0	9.076	/	Pass
	16QAM	1715	27	0	5.123	/	Pass
		1732.5	27	0	5.132	/	Pass
		1750	27	23	5.140	/	Pass
15	QPSK	1717.5	75	0	13.678	/	Pass
		1732.5	75	0	13.610	/	Pass
		1747.5	75	0	13.628	/	Pass
	16QAM	1717.5	27	0	5.537	/	Pass
		1732.5	27	0	13.640	/	Pass
		1747.5	27	48	13.646	/	Pass
20	QPSK	1720	100	0	18.170	/	Pass
		1732.5	100	0	18.094	/	Pass
		1745	100	0	18.056	/	Pass
	16QAM	1720	27	0	5.663	/	Pass
		1732.5	27	0	5.737	/	Pass
		1745	27	73	5.770	/	Pass

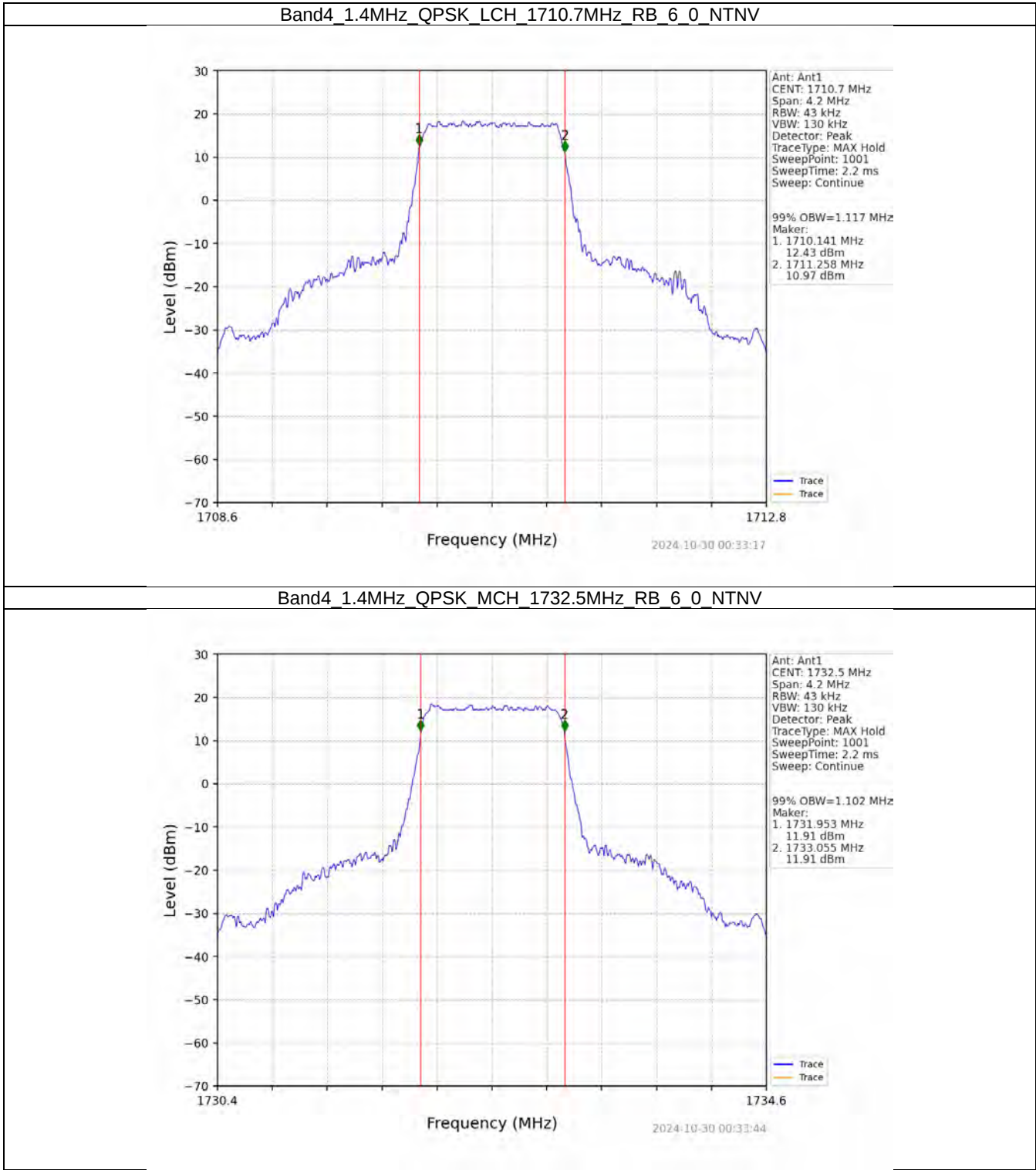
4.1.2 Band4_XDB

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	1.359	/	Pass
		1732.5	6	0	1.334	/	Pass
		1754.3	6	0	1.335	/	Pass

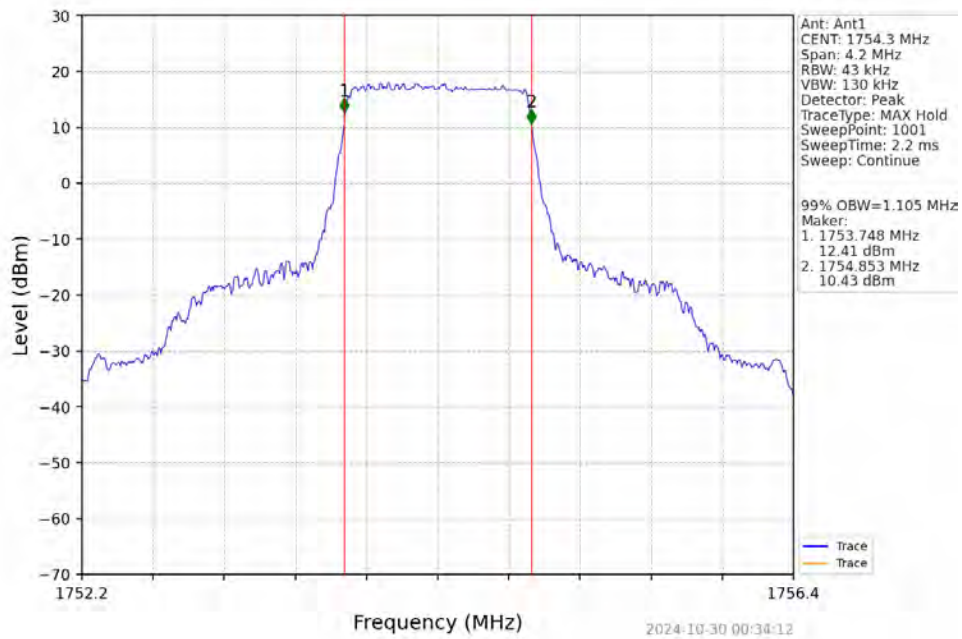
	16QAM	1710.7	6	0	1.331	/	Pass
		1732.5	6	0	1.331	/	Pass
		1754.3	6	0	1.336	/	Pass
3	QPSK	1711.5	15	0	3.036	/	Pass
		1732.5	15	0	3.021	/	Pass
		1753.5	15	0	3.054	/	Pass
	16QAM	1711.5	15	0	3.036	/	Pass
		1732.5	15	0	3.029	/	Pass
		1753.5	15	0	3.017	/	Pass
5	QPSK	1712.5	25	0	5.000	/	Pass
		1732.5	25	0	5.029	/	Pass
		1752.5	25	0	5.052	/	Pass
	16QAM	1712.5	25	0	5.002	/	Pass
		1732.5	25	0	5.020	/	Pass
		1752.5	25	0	5.049	/	Pass
10	QPSK	1715	50	0	10.327	/	Pass
		1732.5	50	0	10.490	/	Pass
		1750	50	0	10.277	/	Pass
	16QAM	1715	27	0	6.280	/	Pass
		1732.5	27	0	6.437	/	Pass
		1750	27	23	6.593	/	Pass
15	QPSK	1717.5	75	0	15.617	/	Pass
		1732.5	75	0	15.525	/	Pass
		1747.5	75	0	15.571	/	Pass
	16QAM	1717.5	27	0	7.713	/	Pass
		1732.5	27	0	15.595	/	Pass
		1747.5	27	48	15.379	/	Pass
20	QPSK	1720	100	0	20.543	/	Pass
		1732.5	100	0	20.392	/	Pass
		1745	100	0	20.228	/	Pass
	16QAM	1720	27	0	7.513	/	Pass
		1732.5	27	0	7.708	/	Pass
		1745	27	73	7.687	/	Pass

4.2 Test Graph

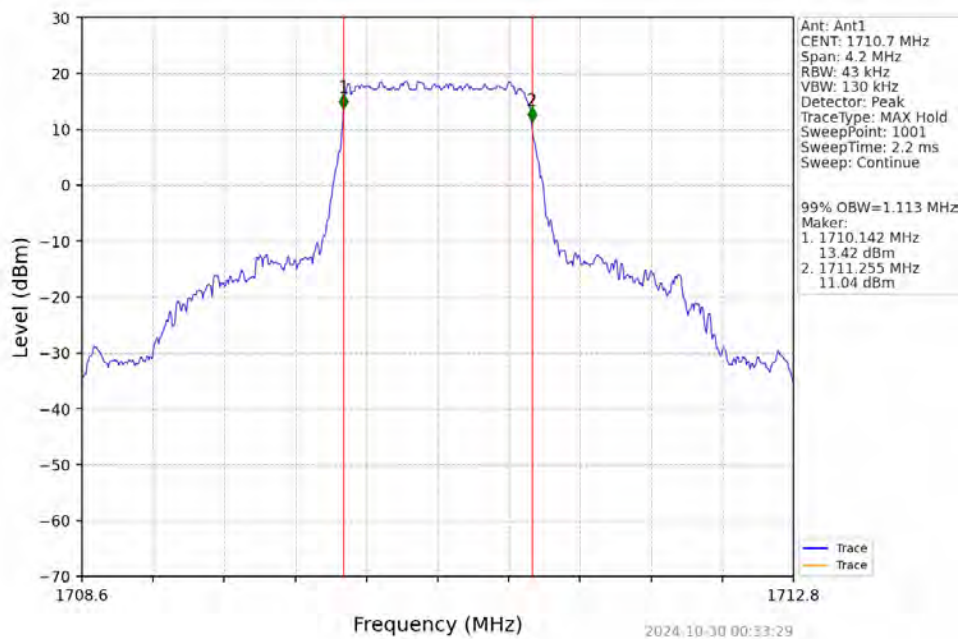
4.2.1 Band4_OBW



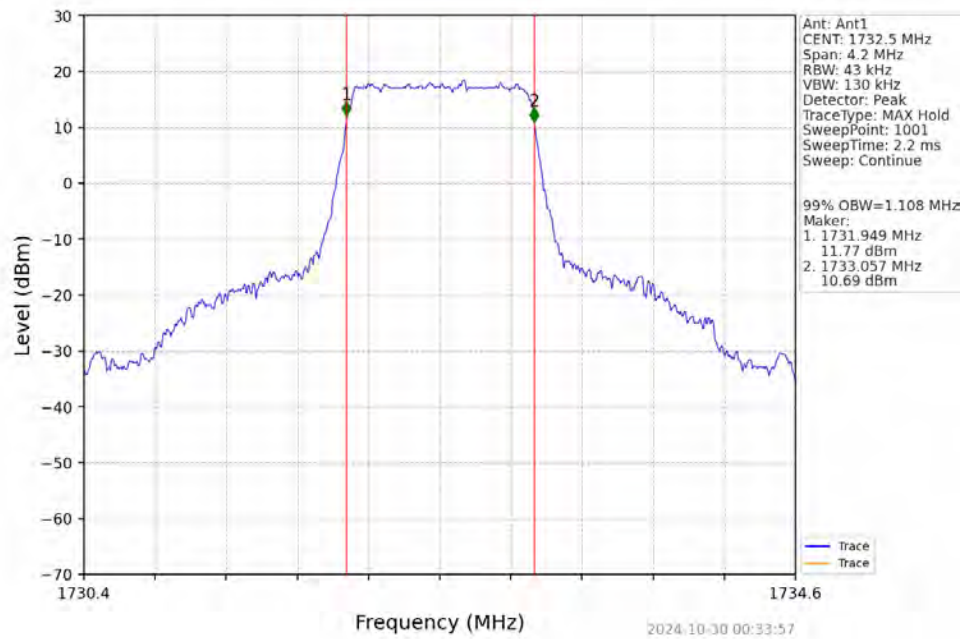
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



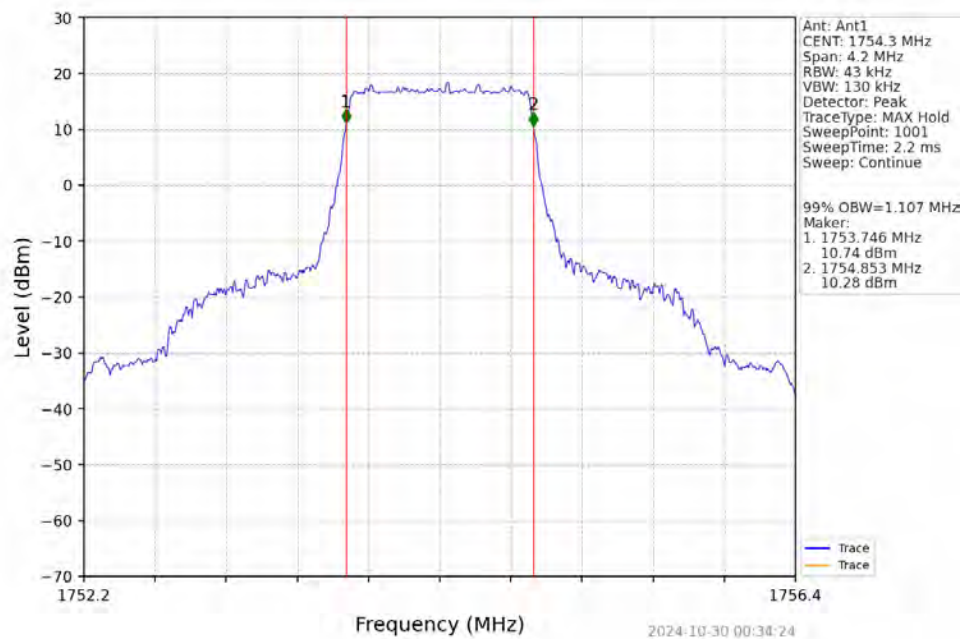
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



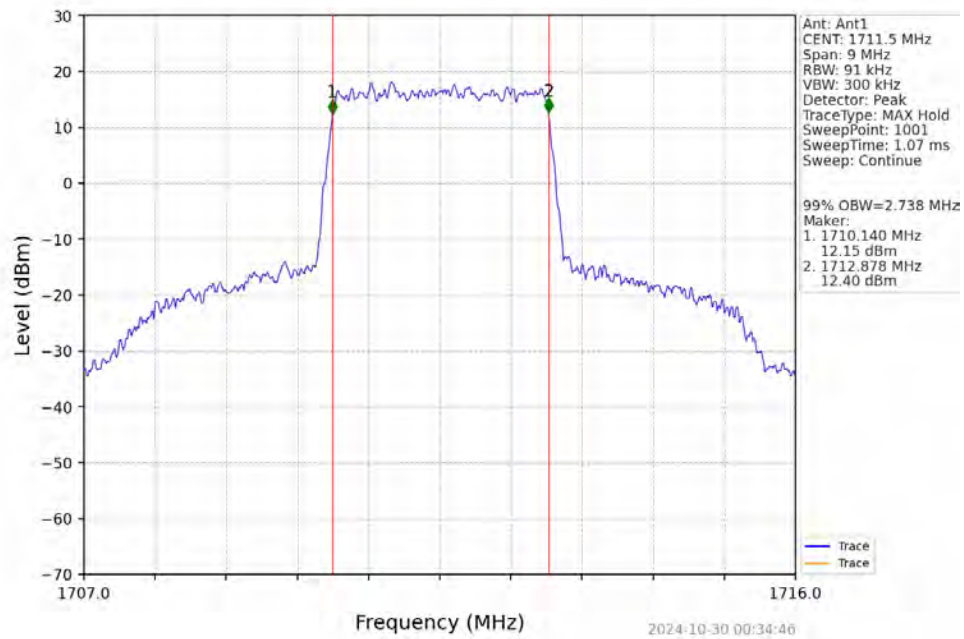
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



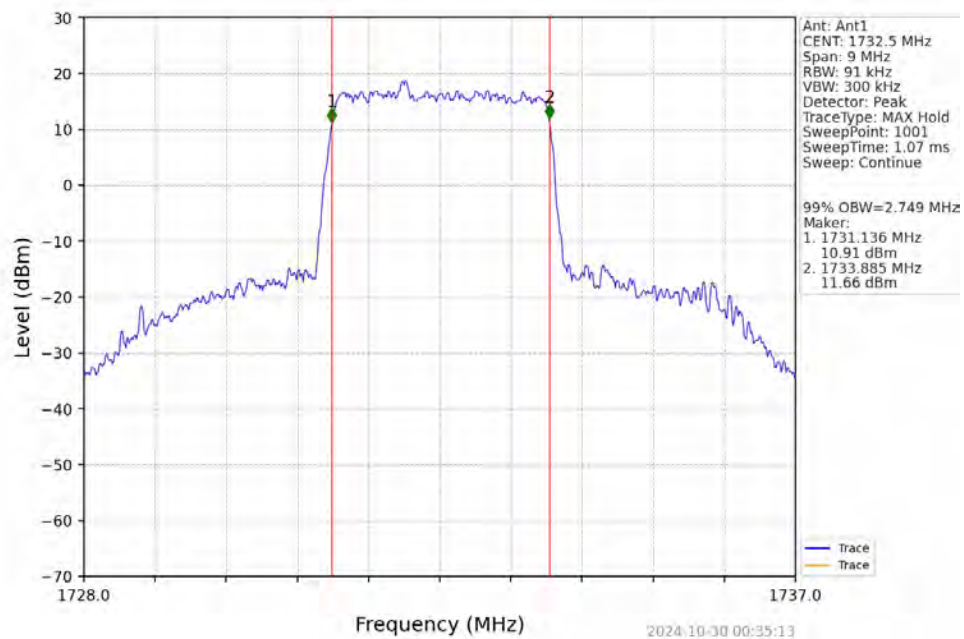
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



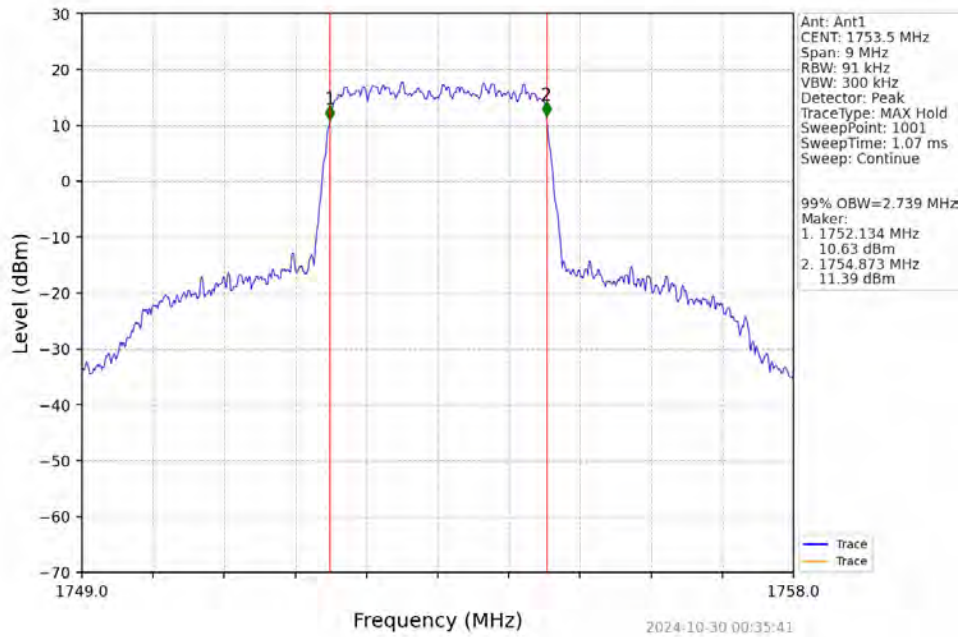
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN



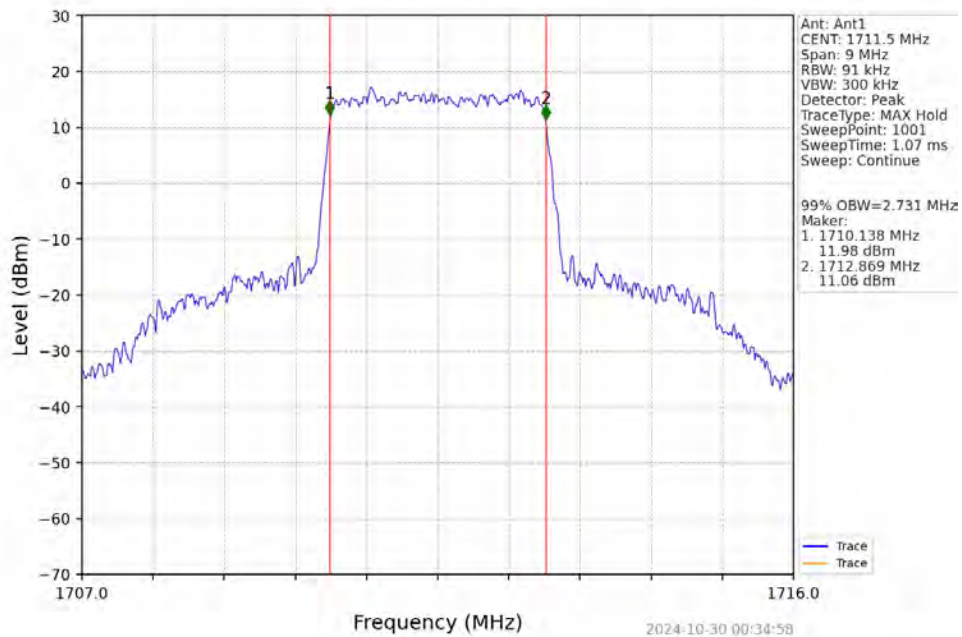
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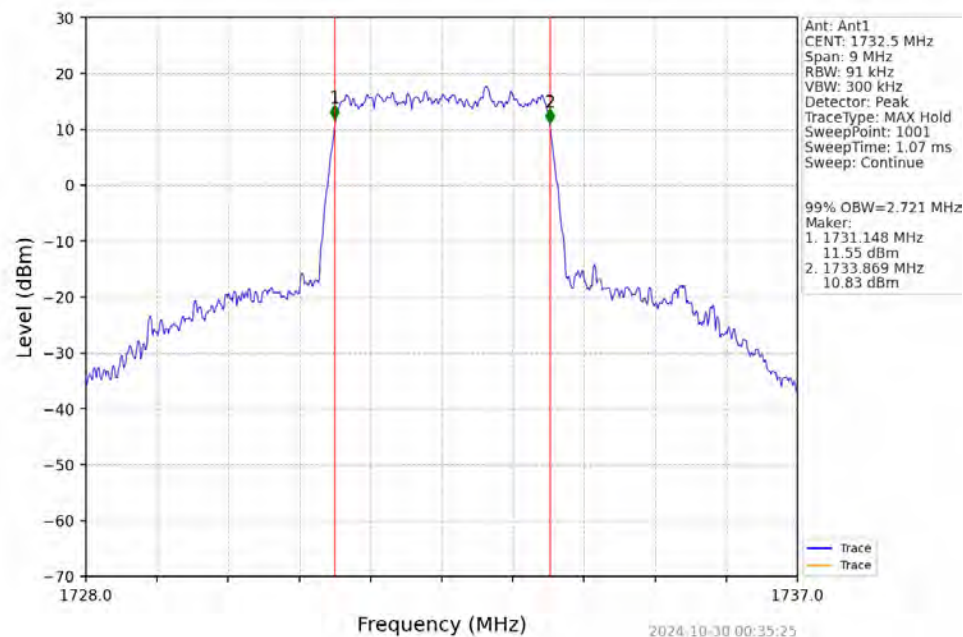
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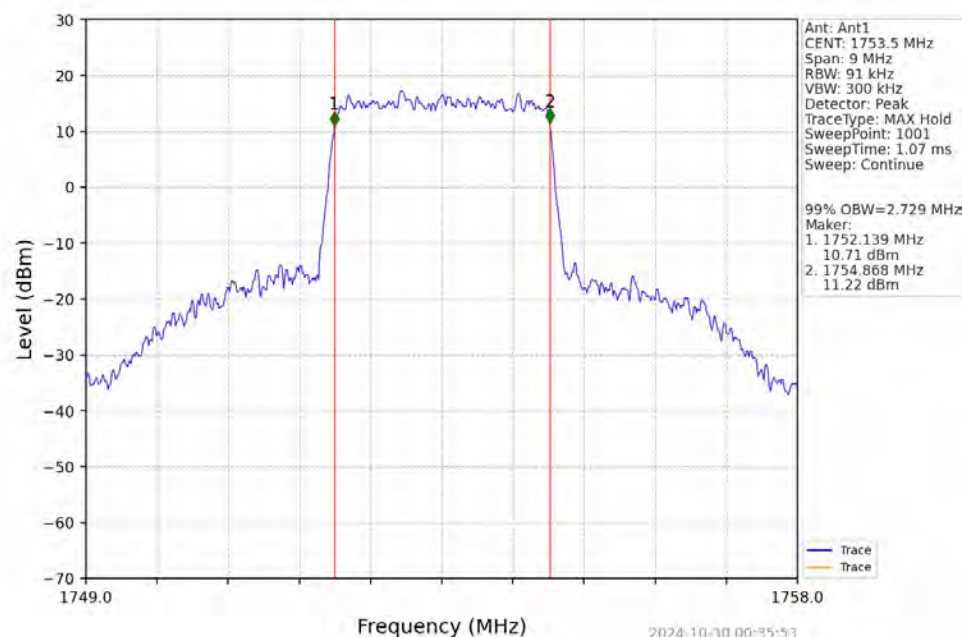
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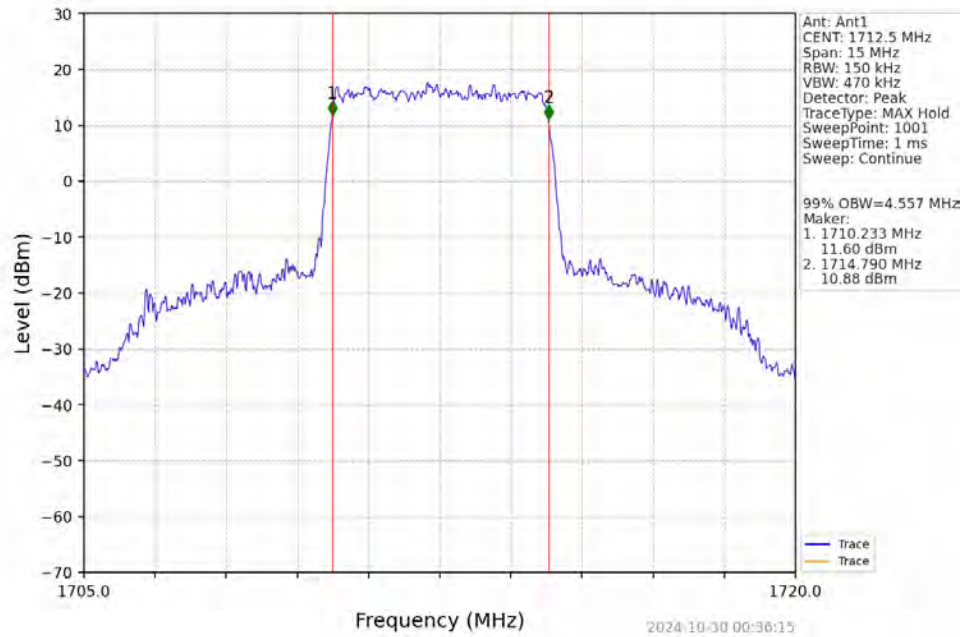
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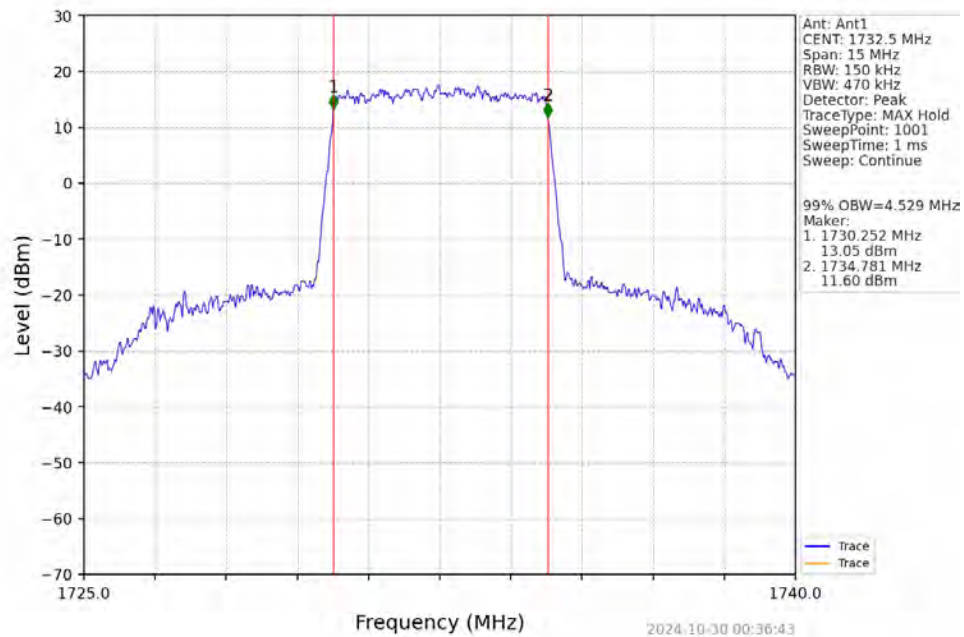
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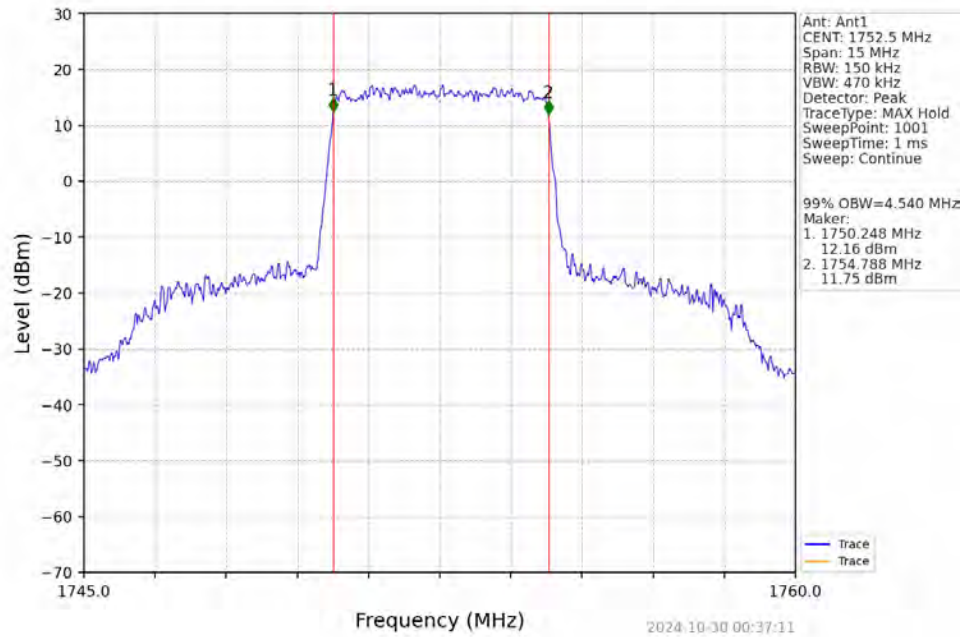
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



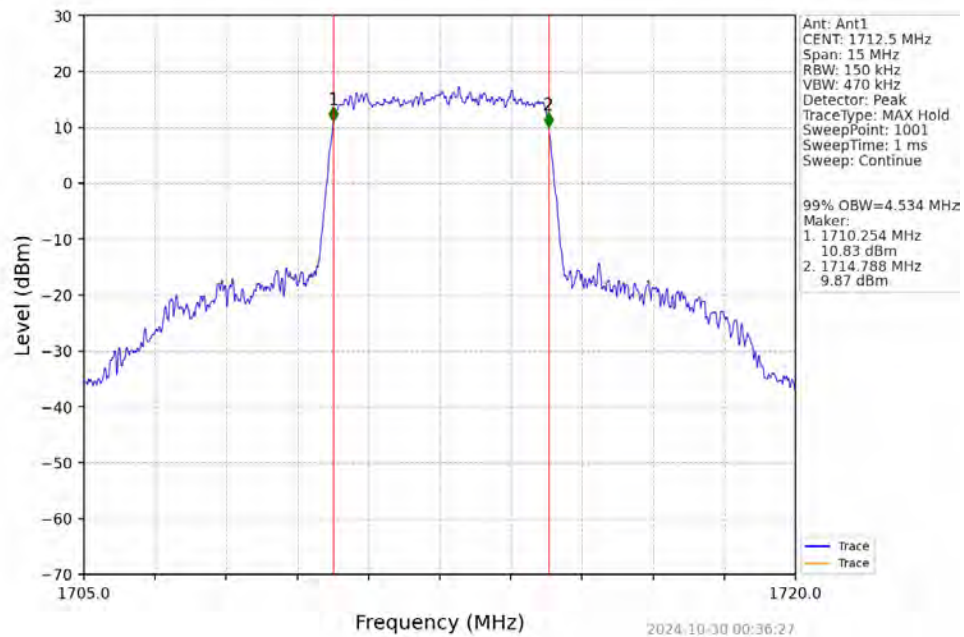
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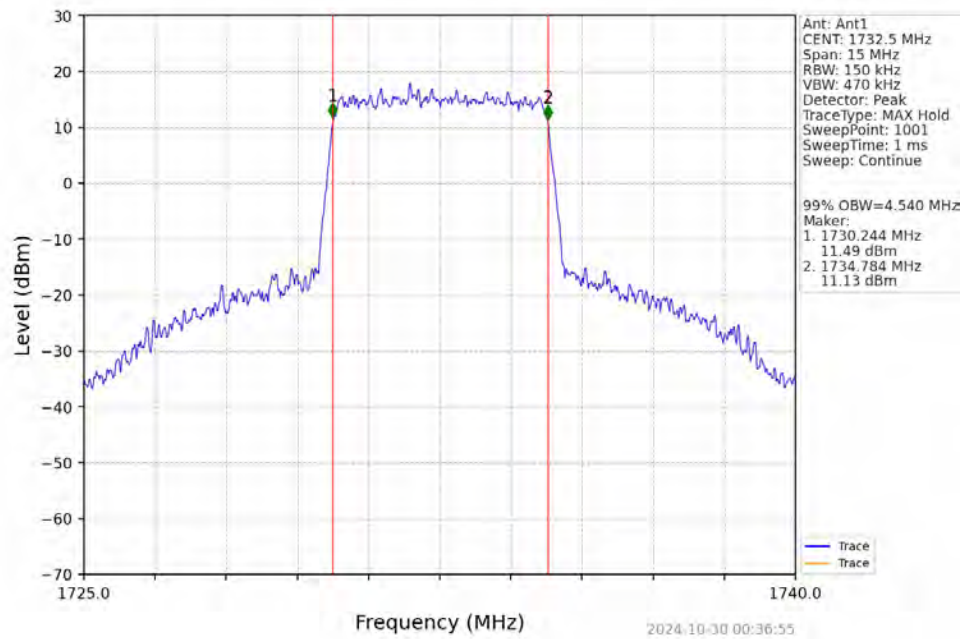
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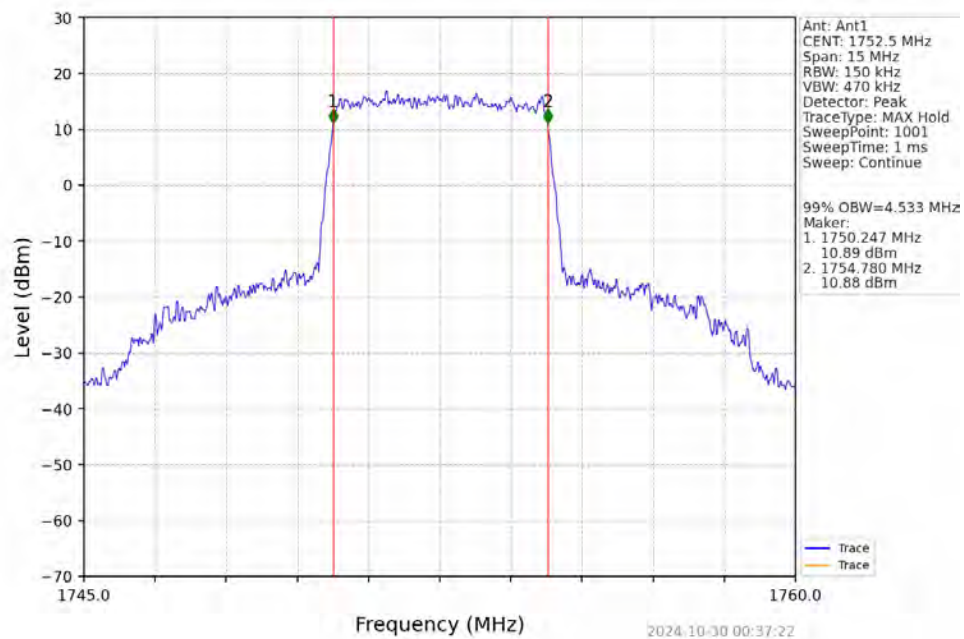
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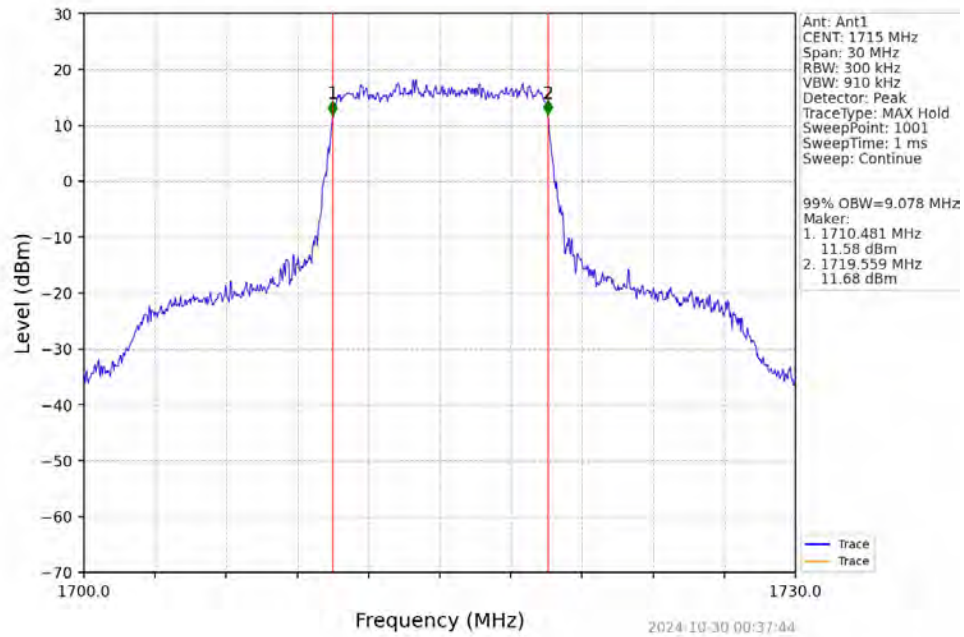
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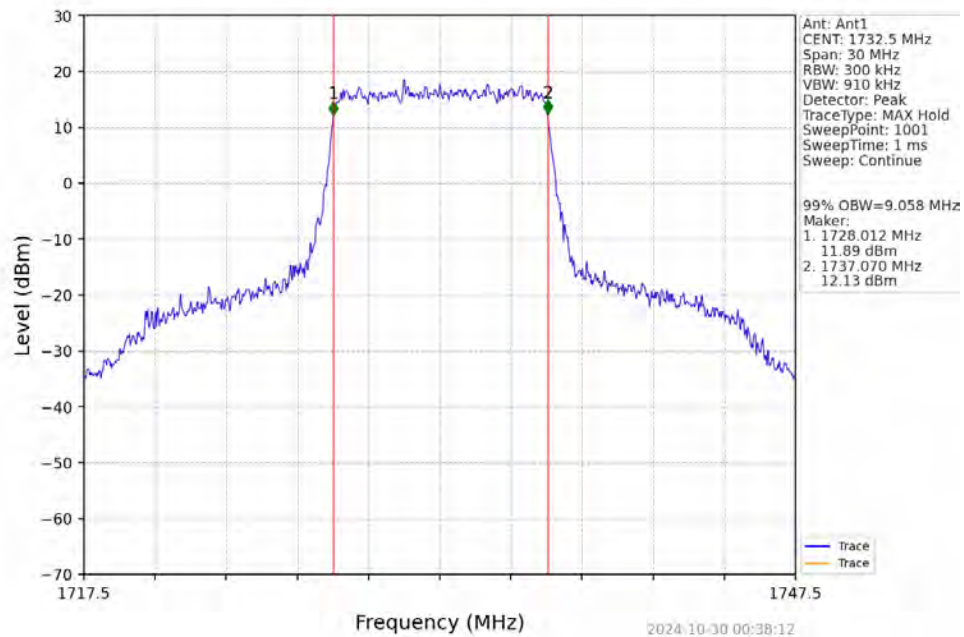
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



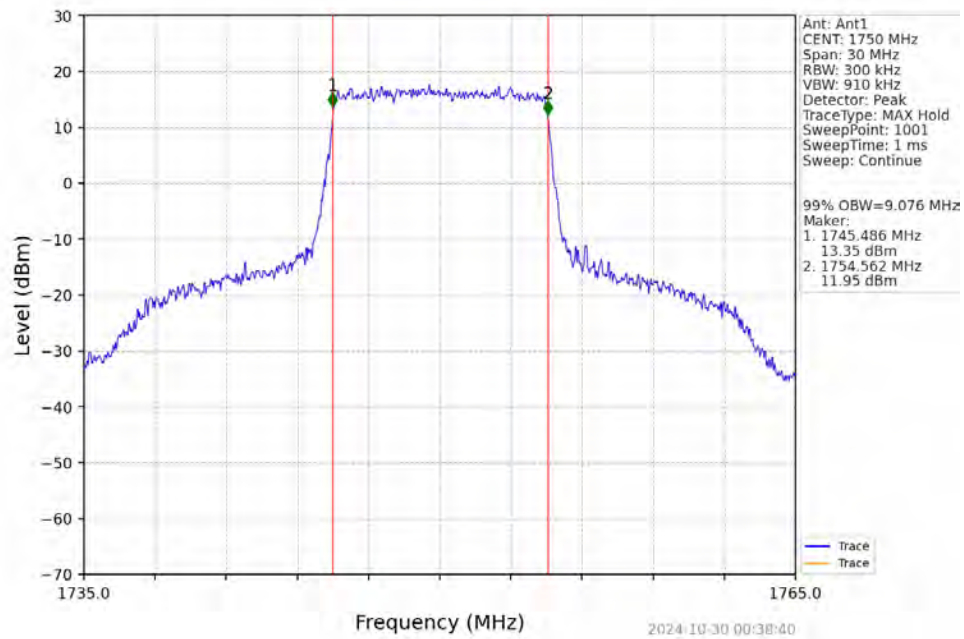
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



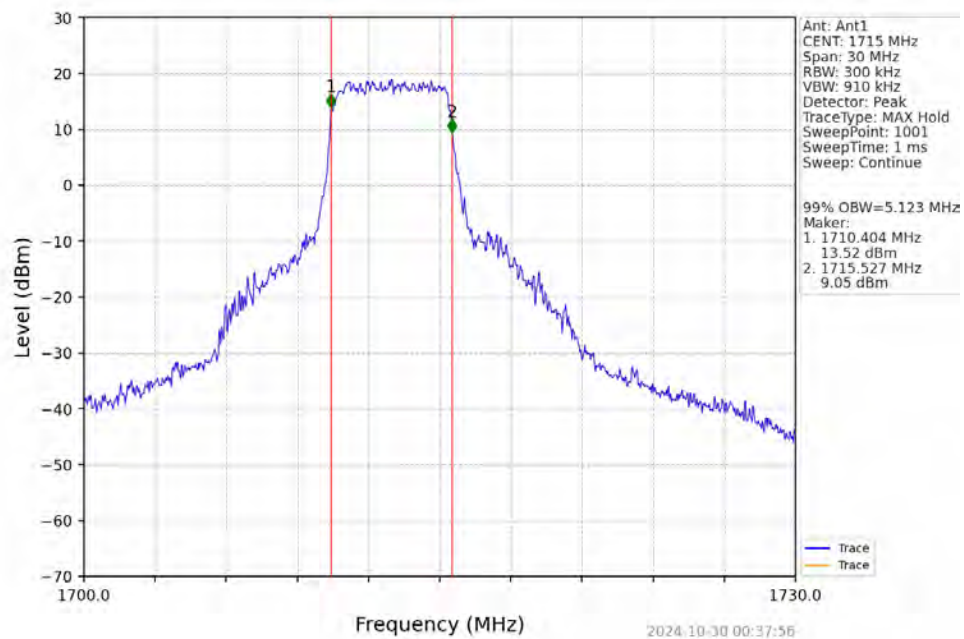
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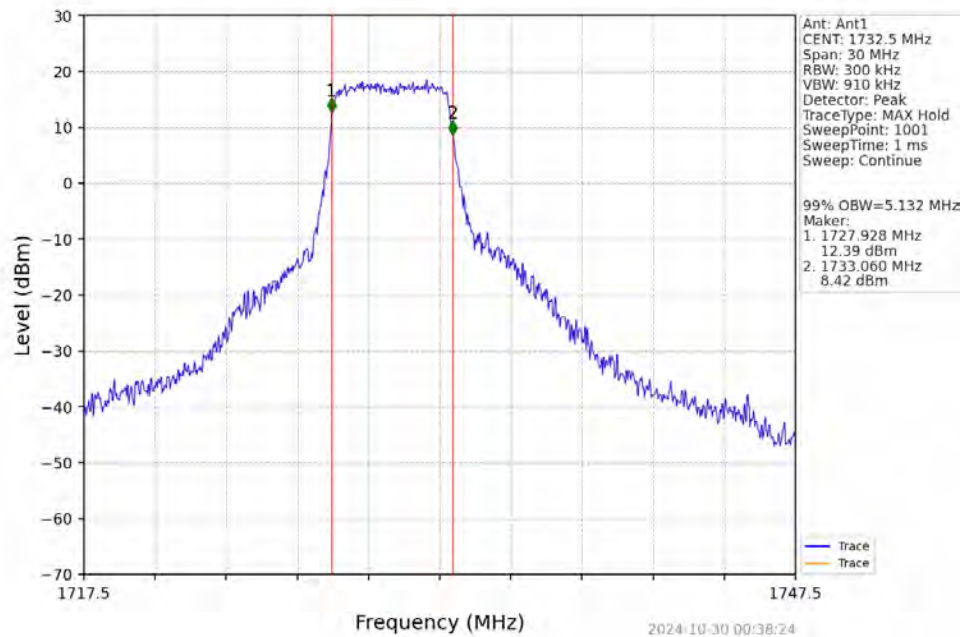
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



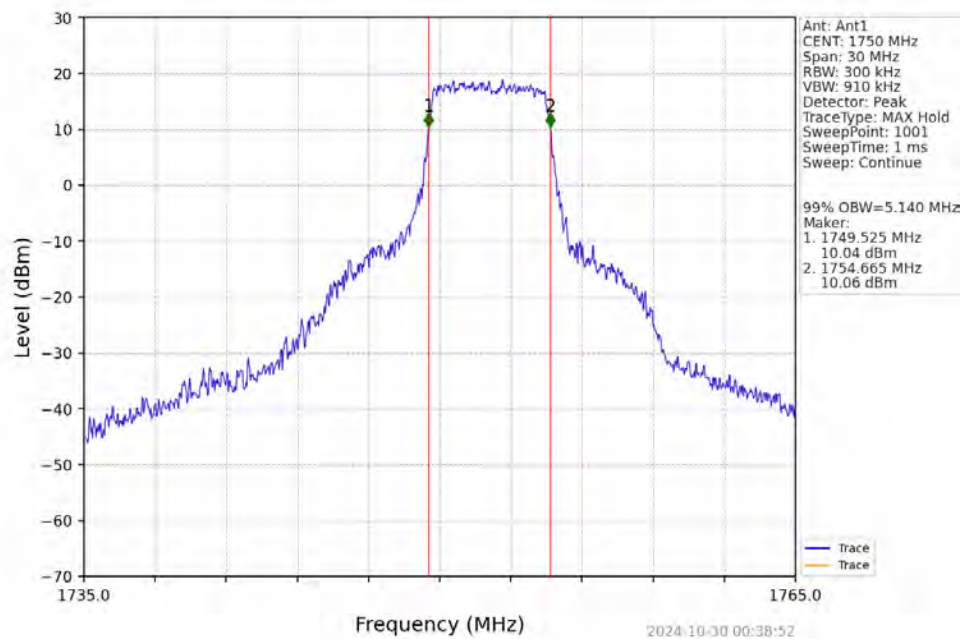
Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTNV



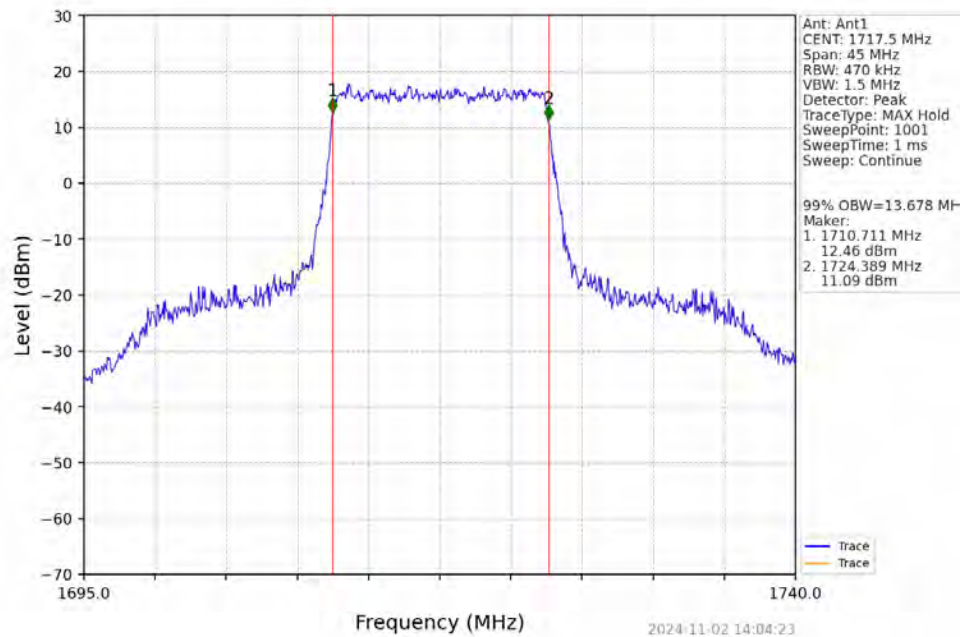
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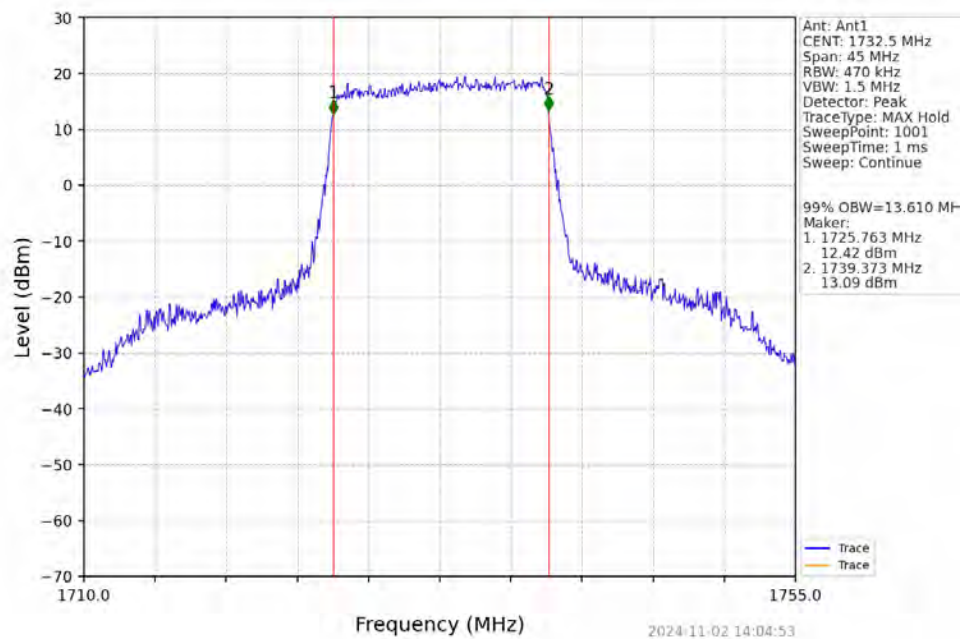
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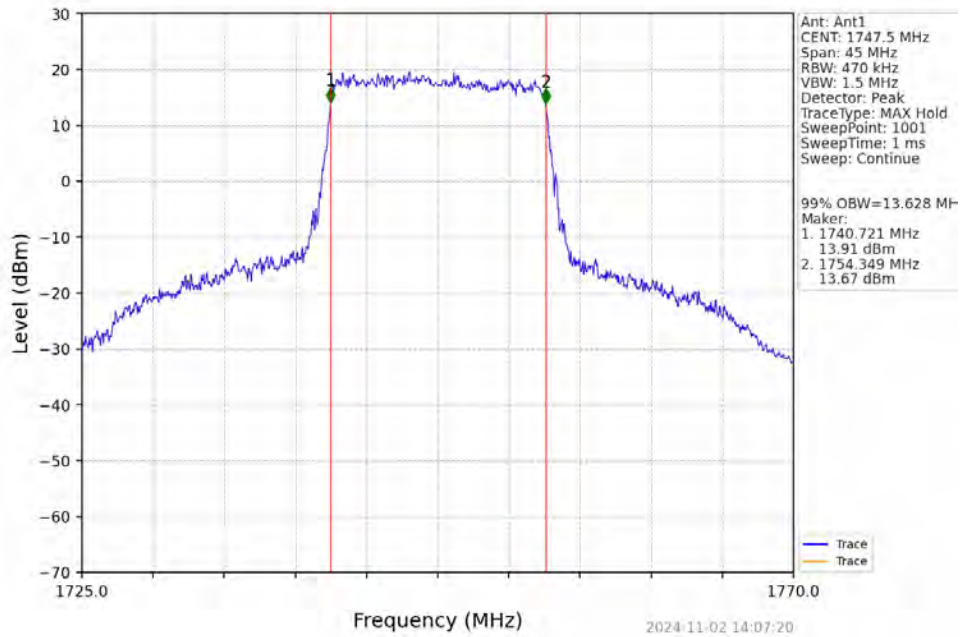
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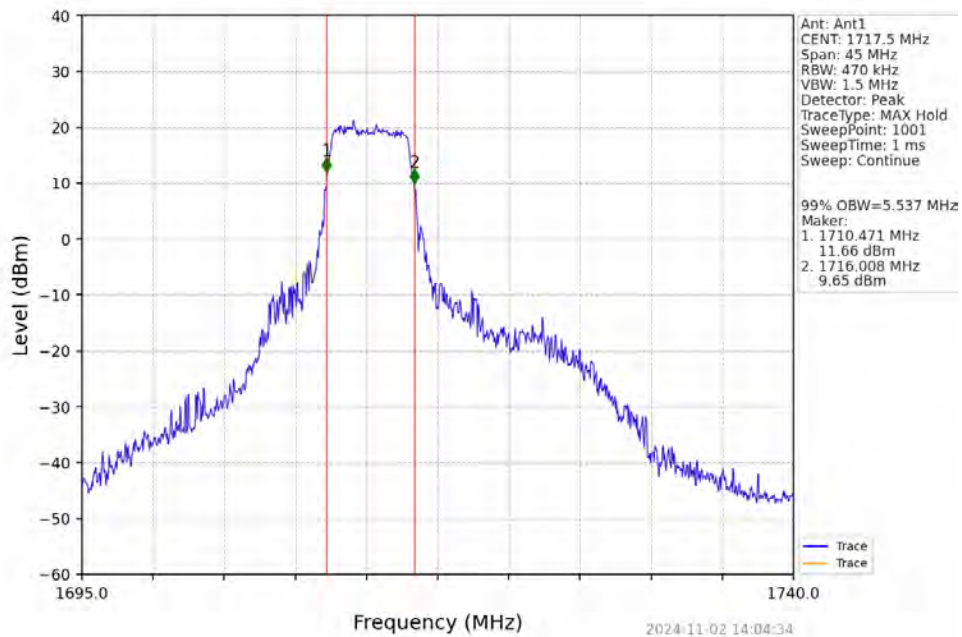
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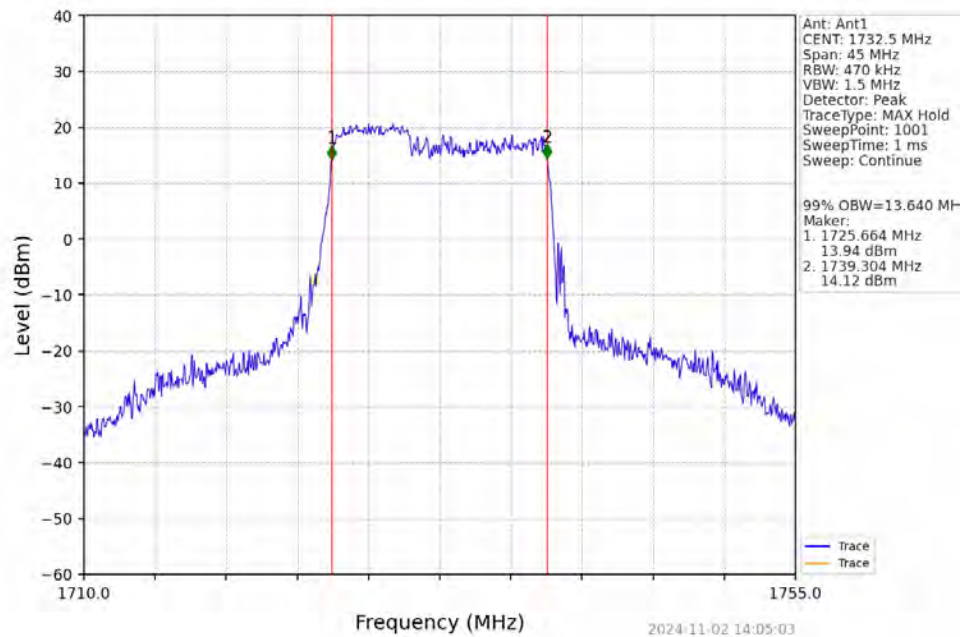
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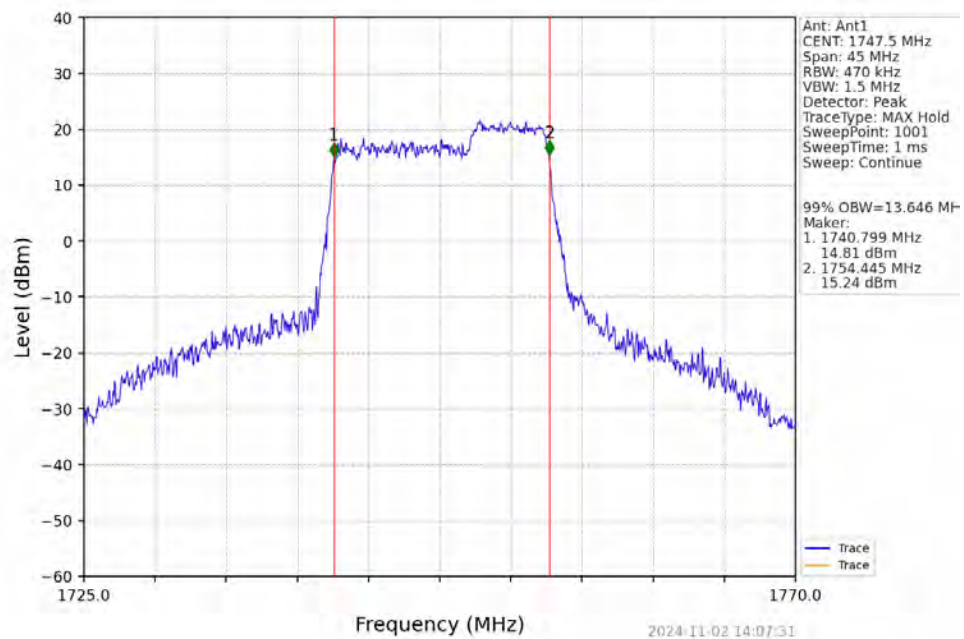
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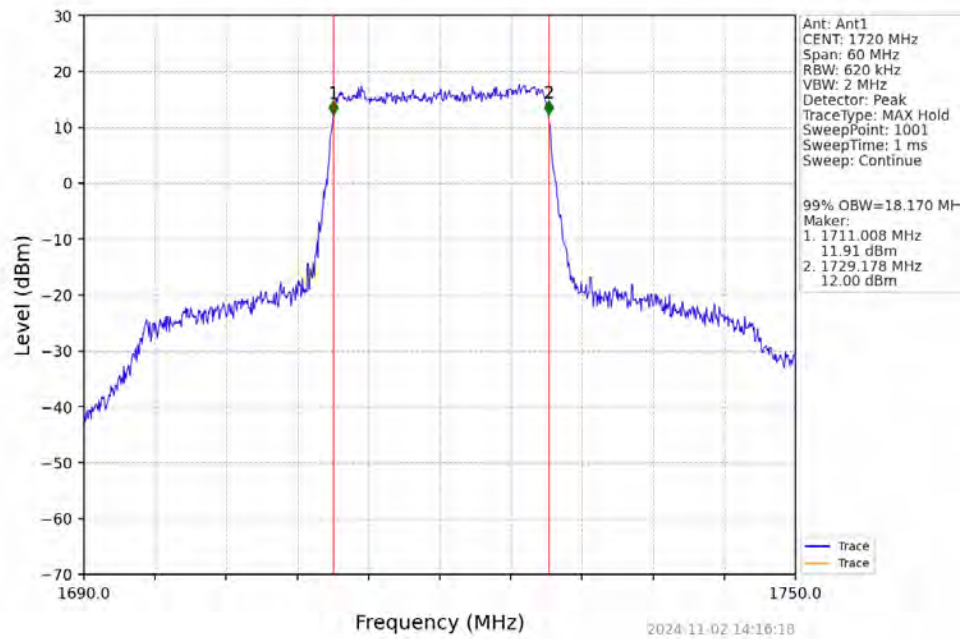
Band4 15MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



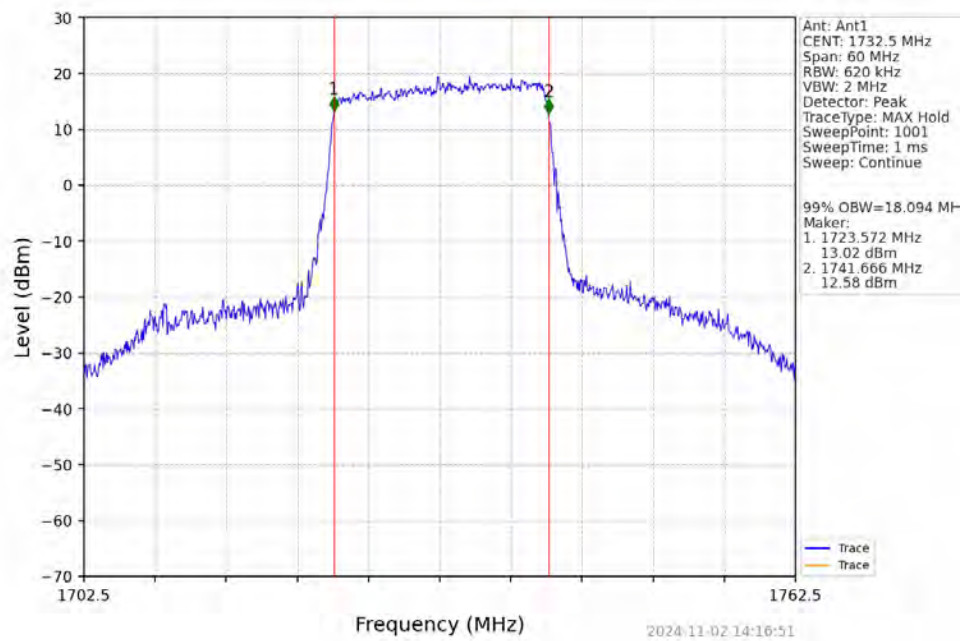
Band4 15MHz 16QAM HCH 1747.5MHz RB 27 48 NTNV



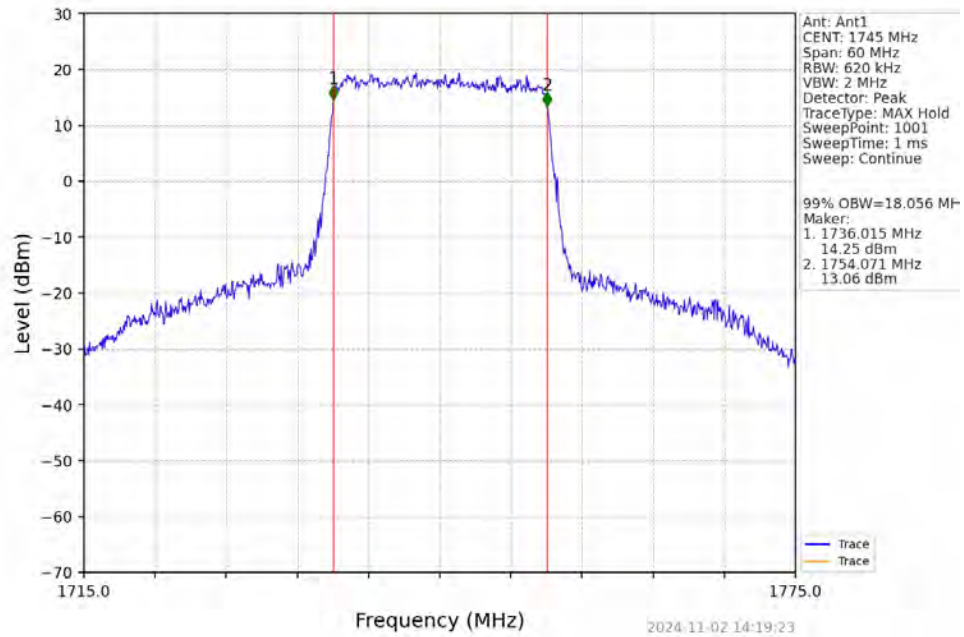
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTN



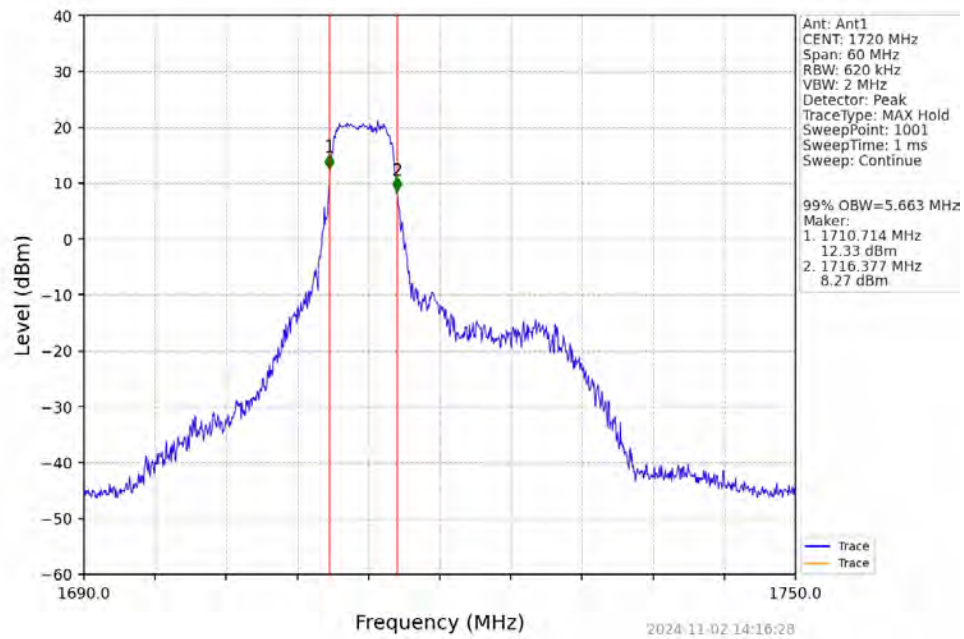
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTN



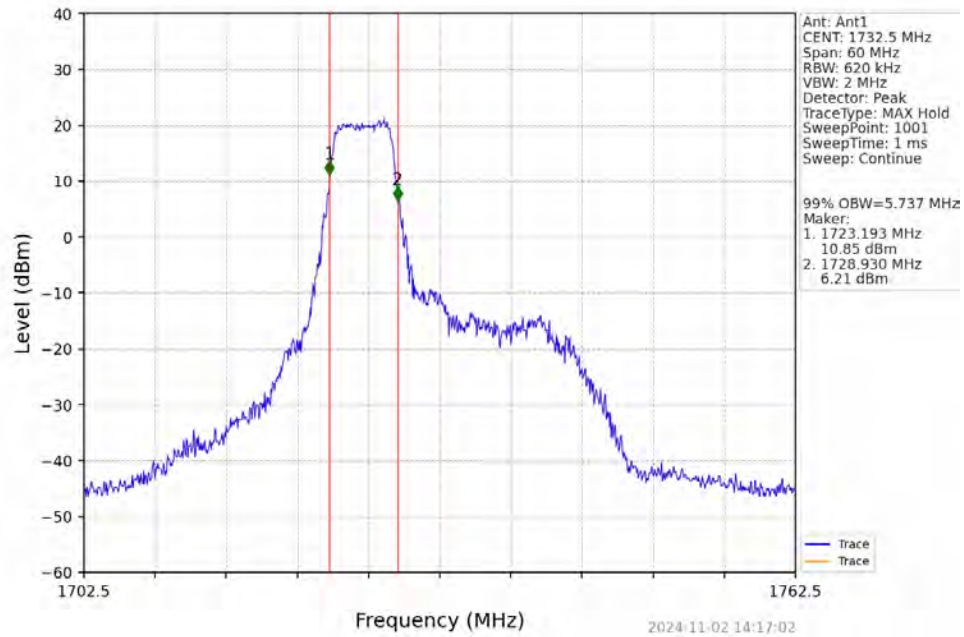
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



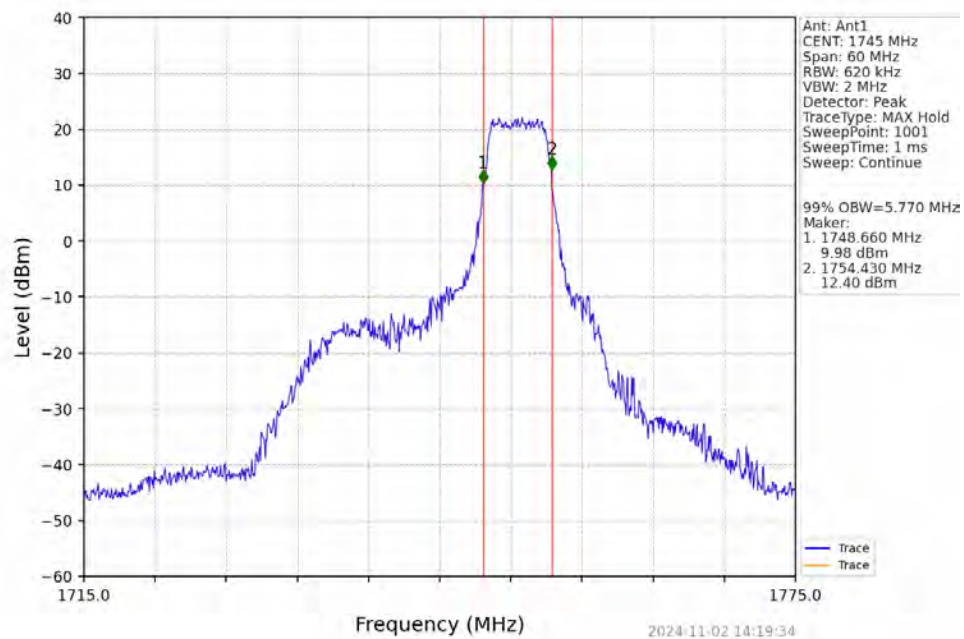
Band4 20MHz 16QAM LCH 1720MHz RB 27 0 NTNV



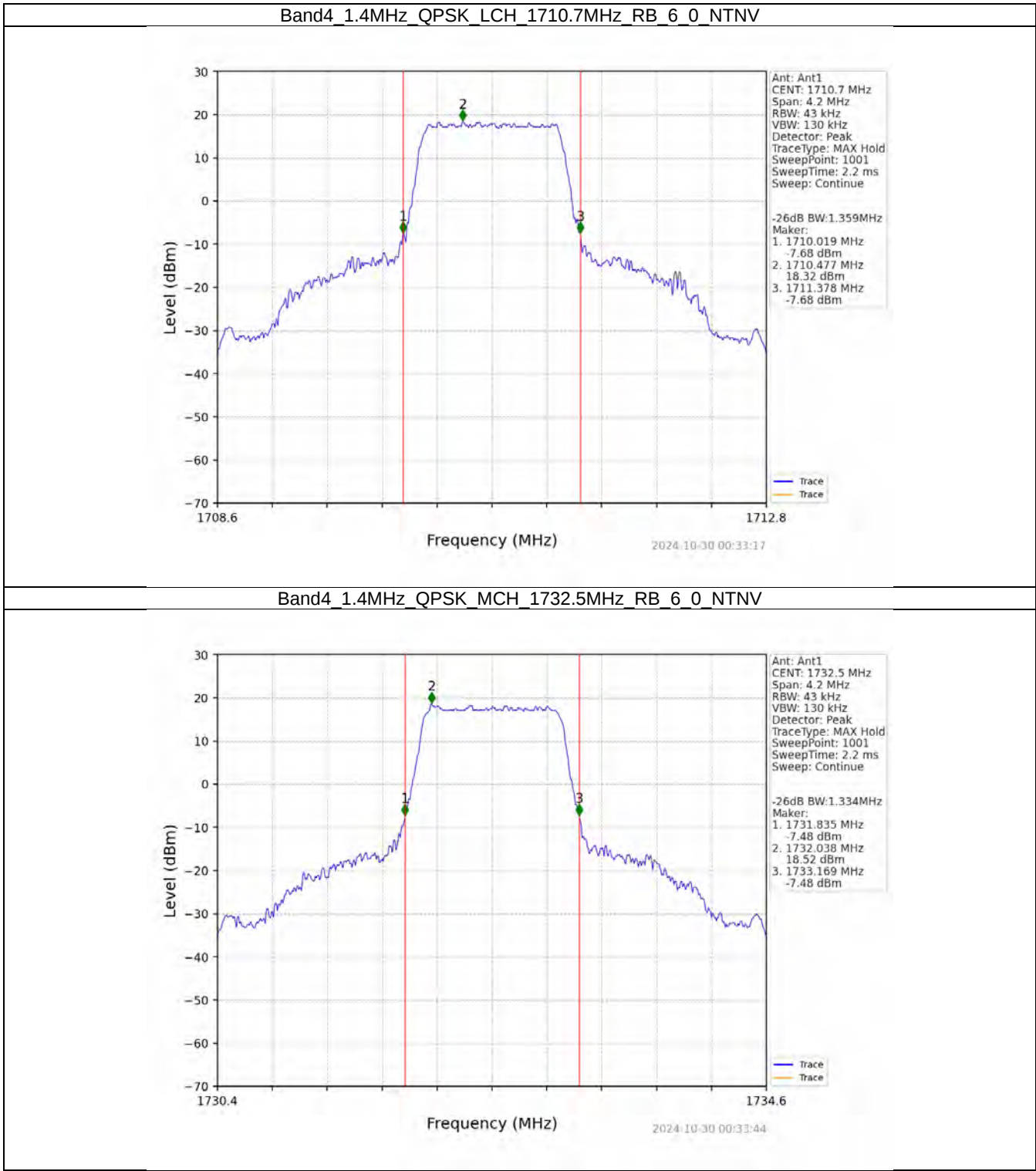
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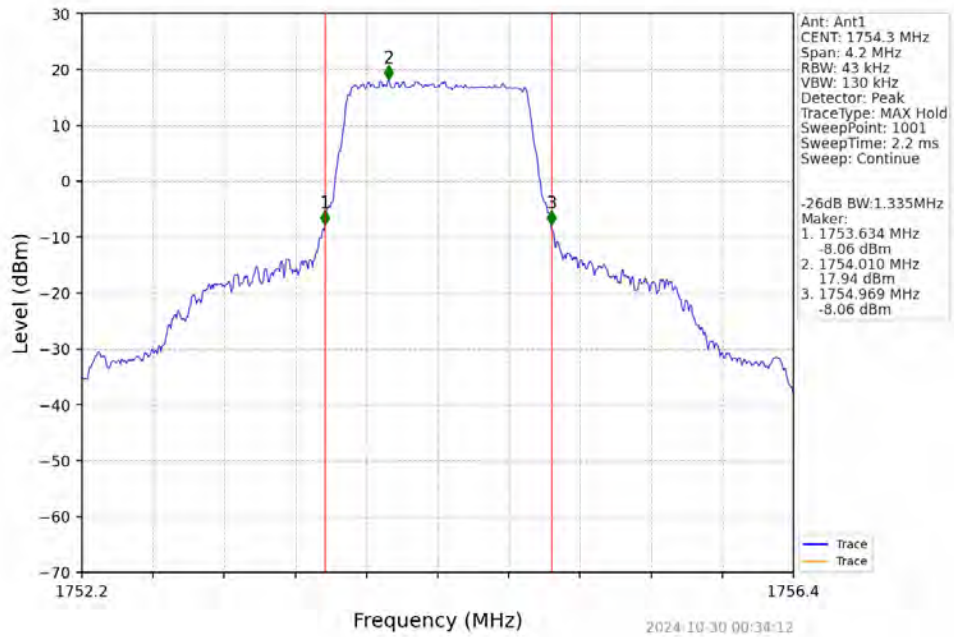
Band4 20MHz 16QAM HCH 1745MHz RB 27 73 NTNV



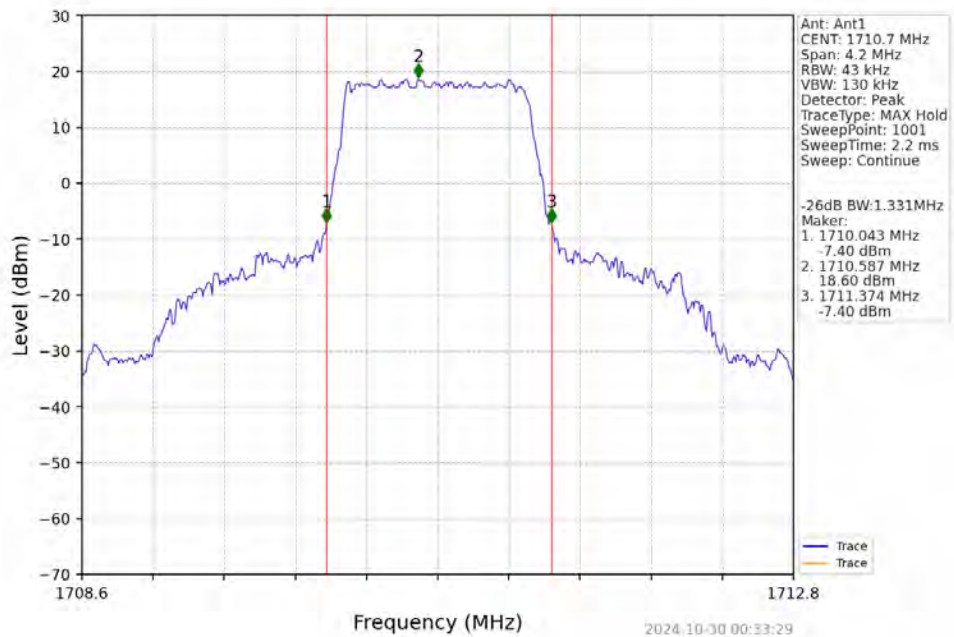
4.2.2 Band4_XDB



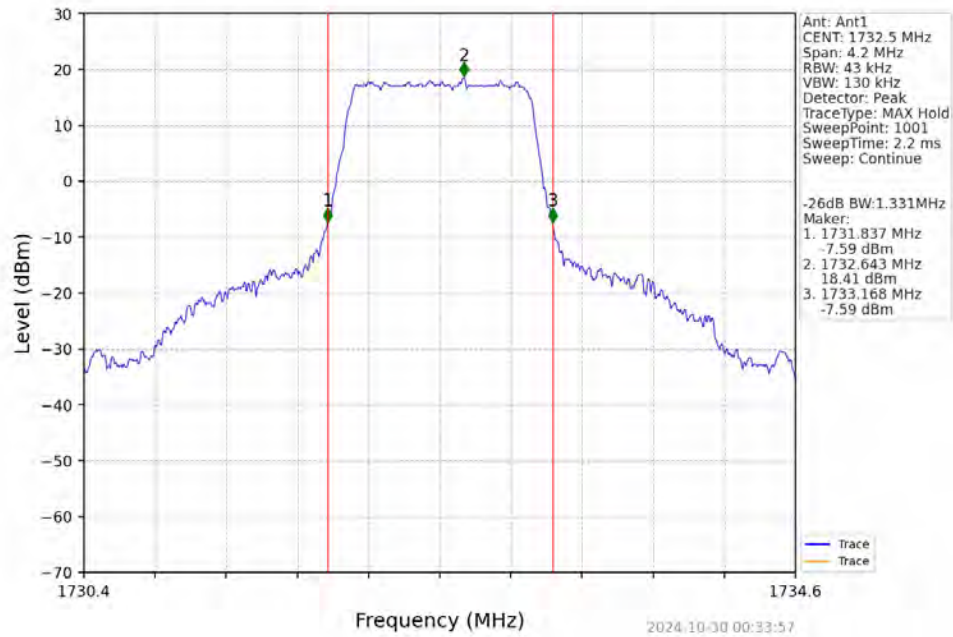
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



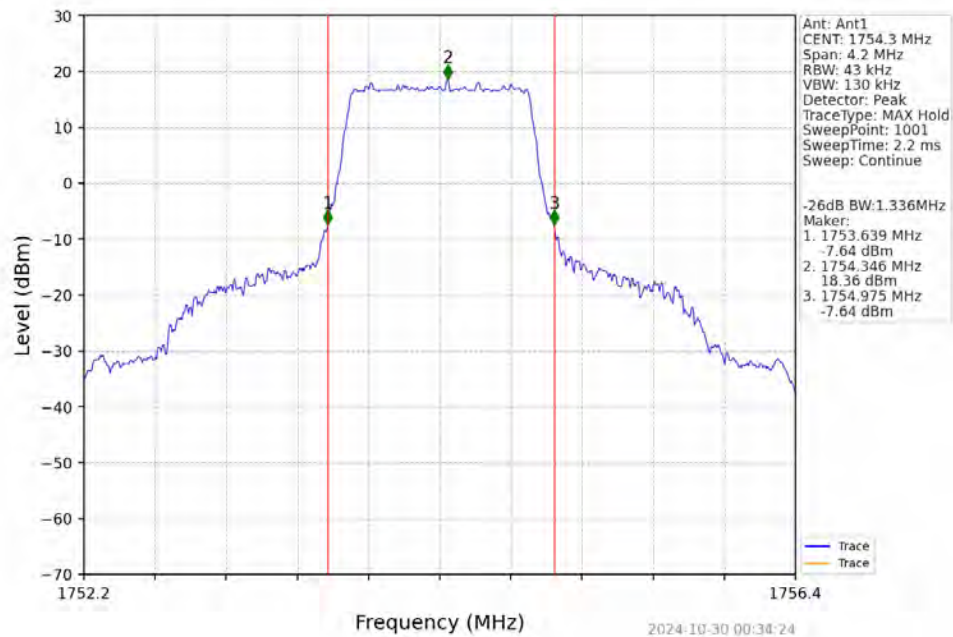
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



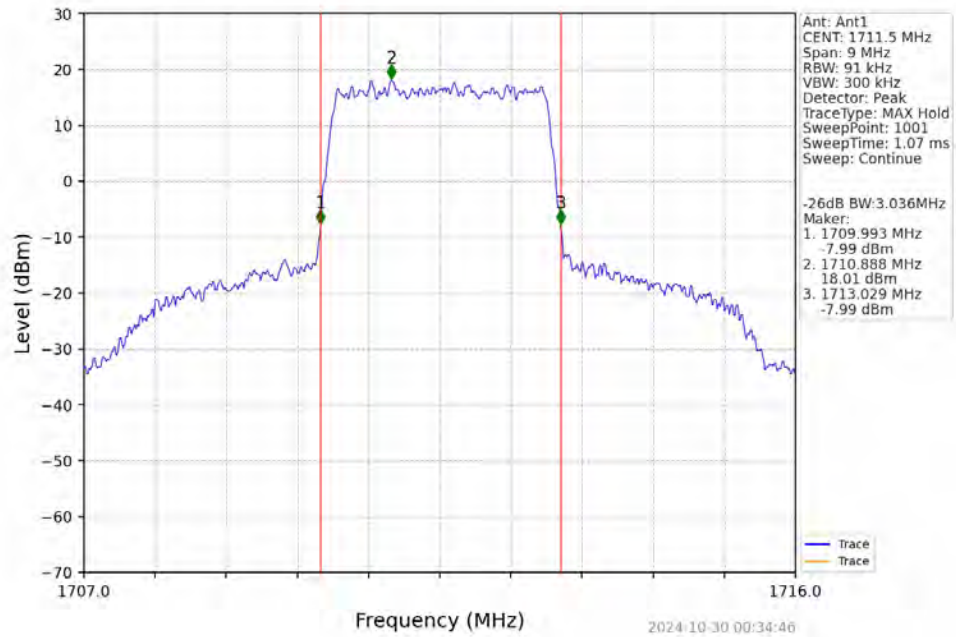
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



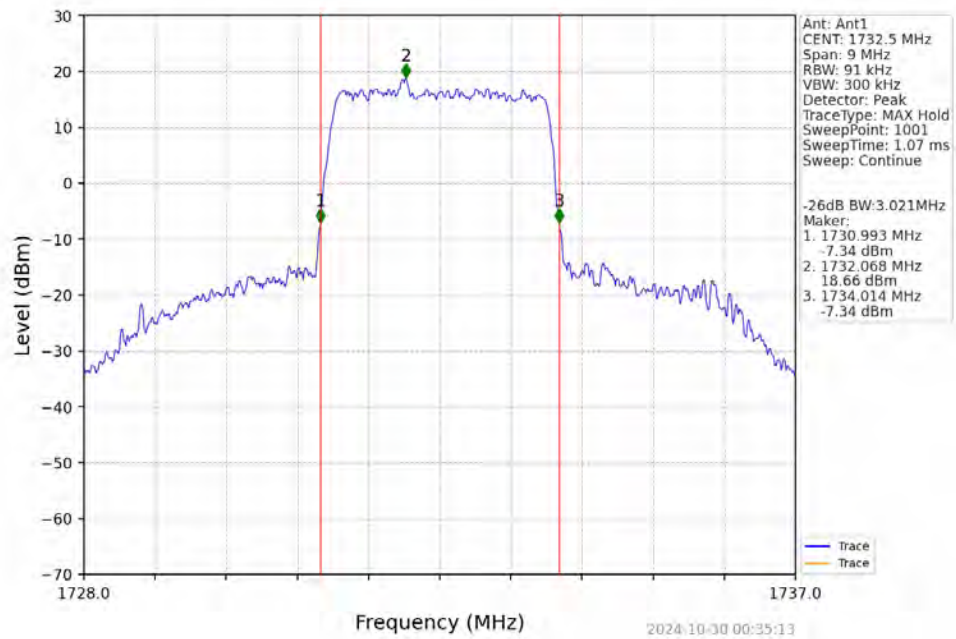
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



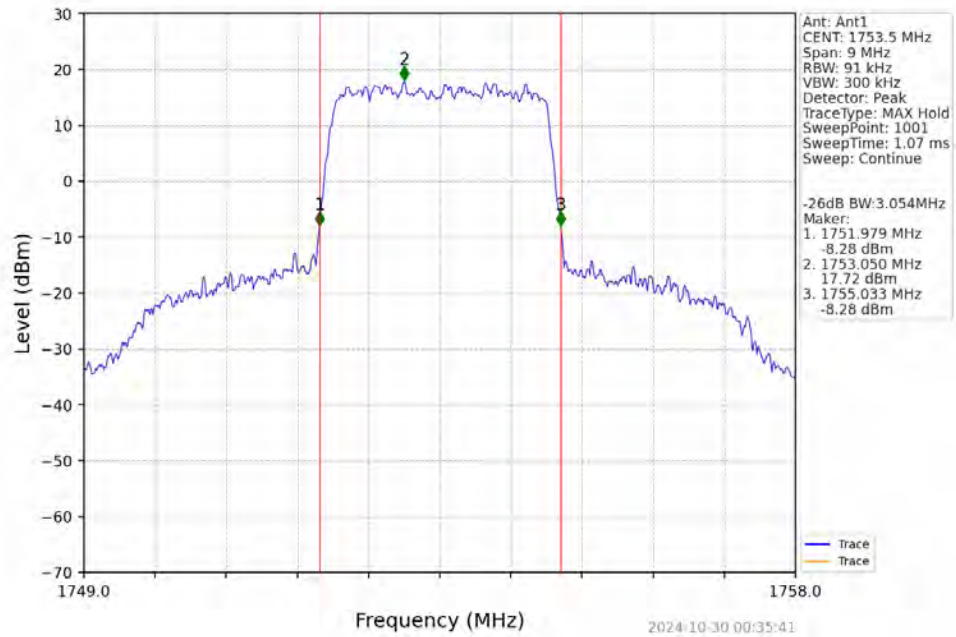
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



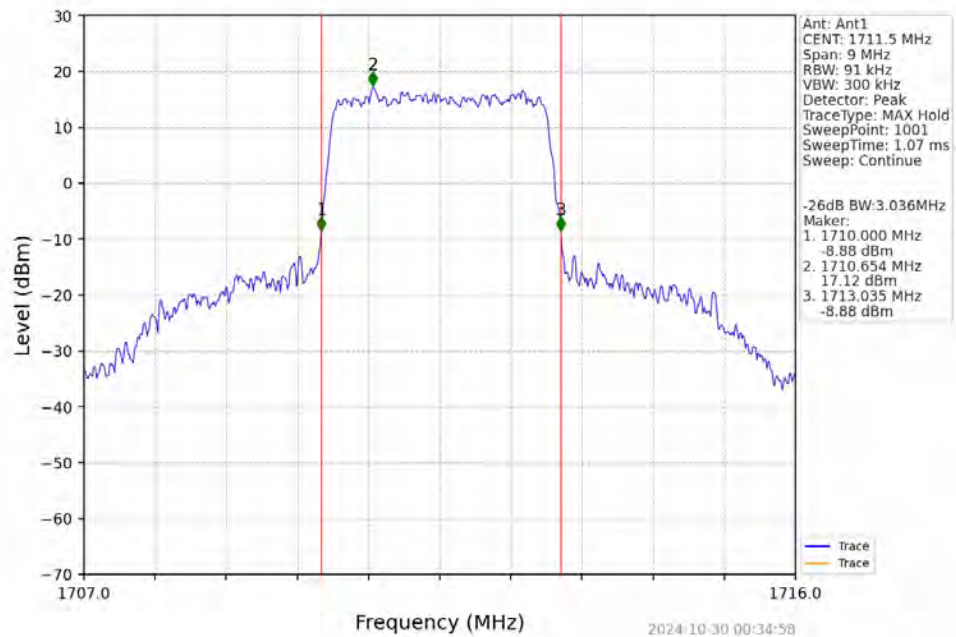
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTNV



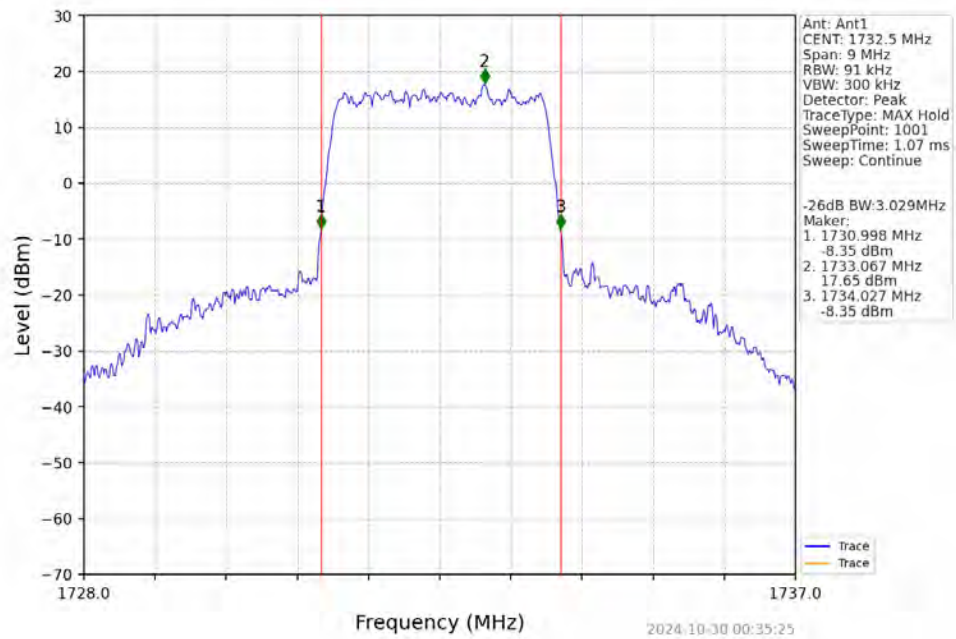
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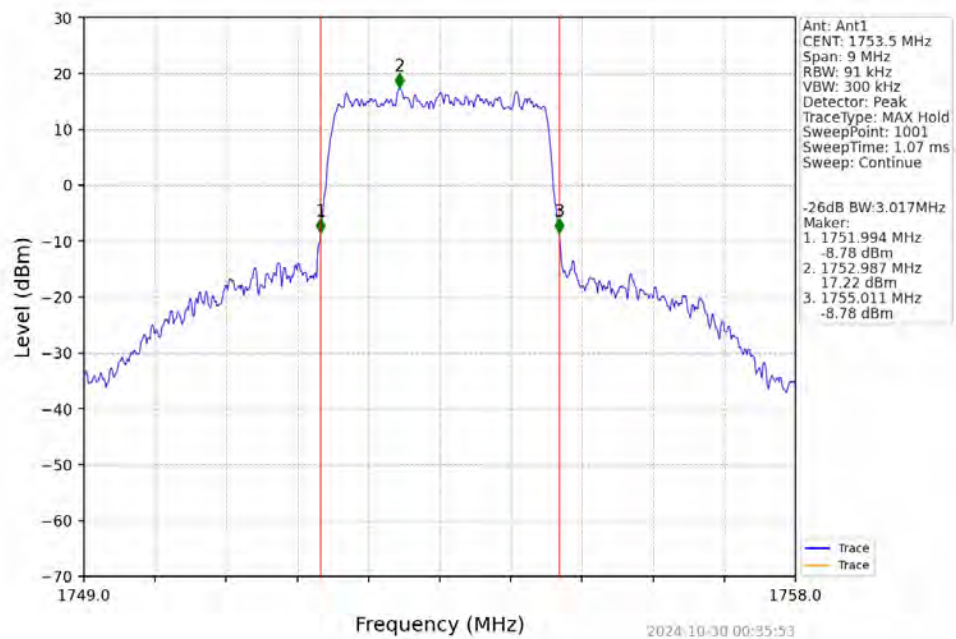
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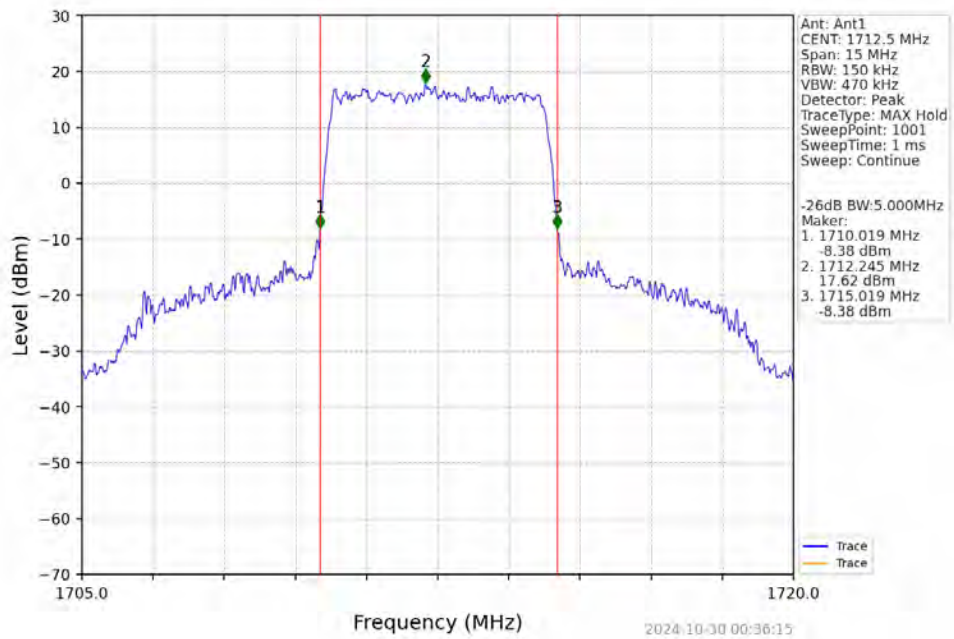
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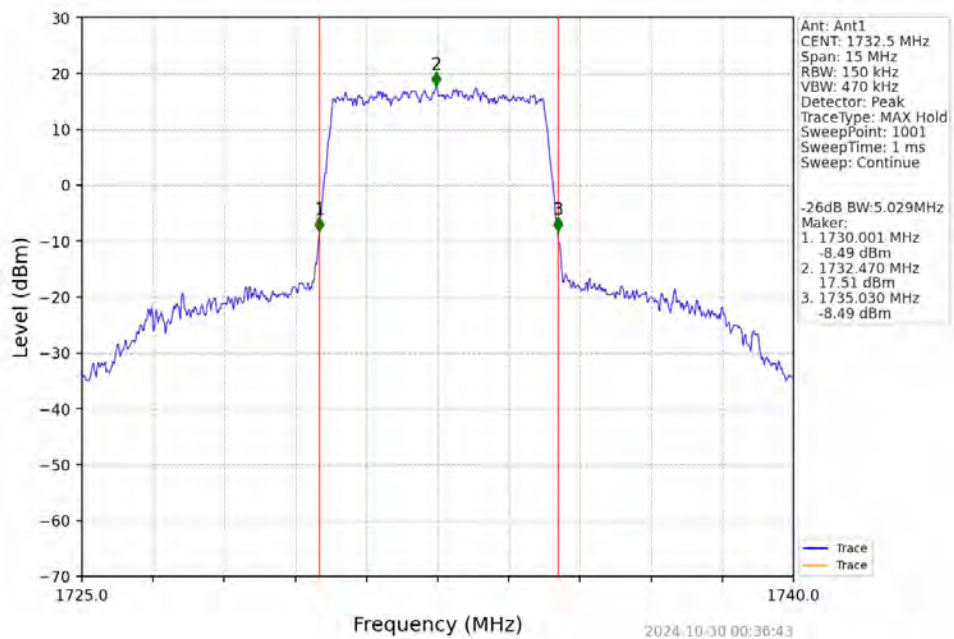
Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTNV



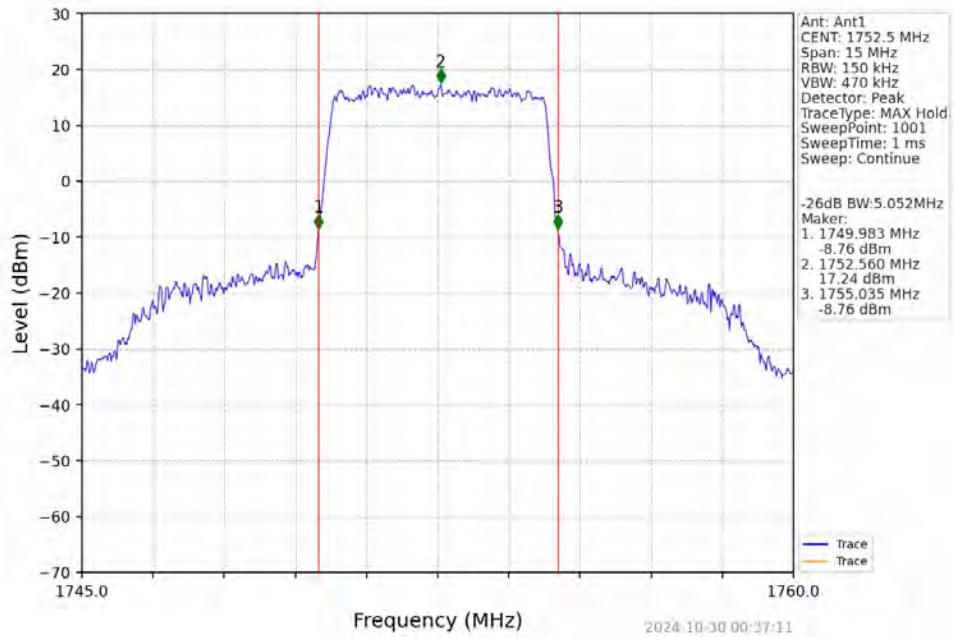
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



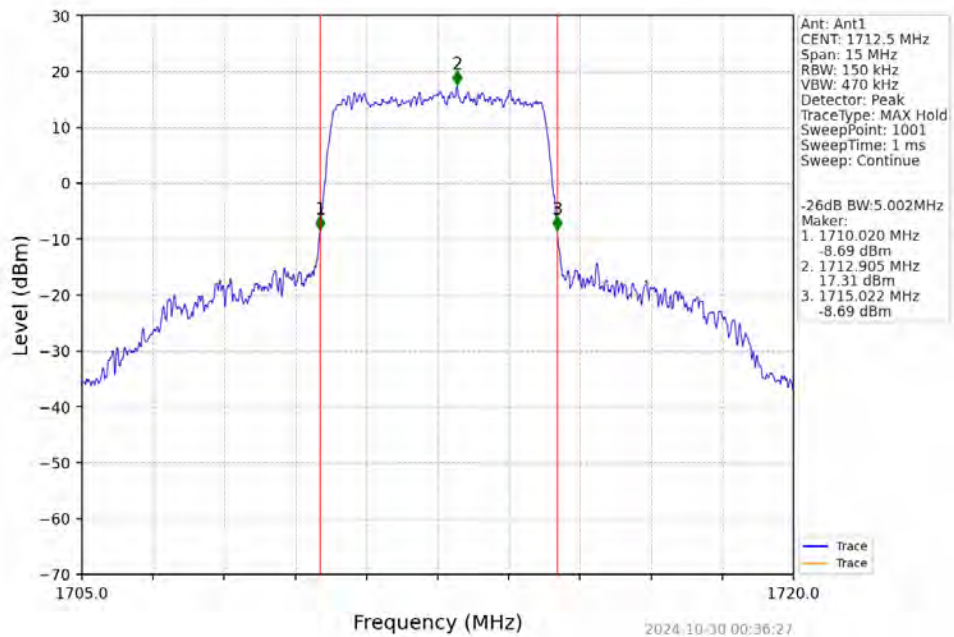
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



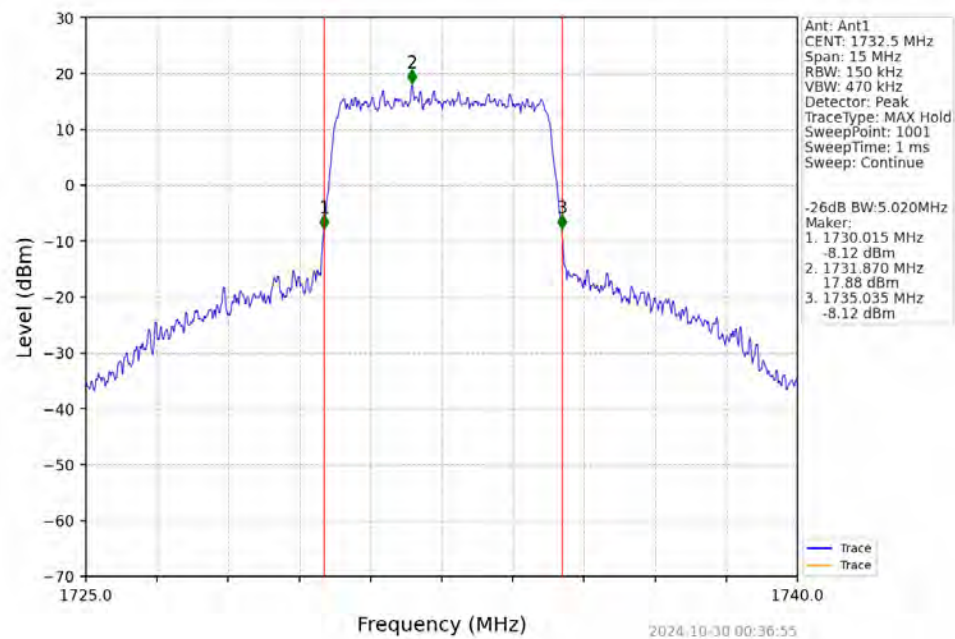
Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN



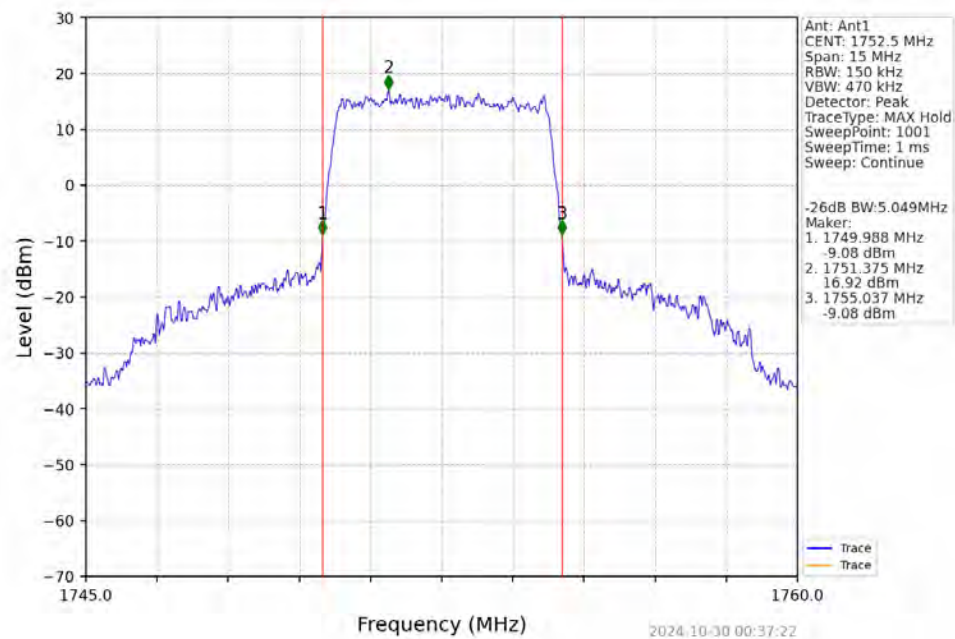
Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTN



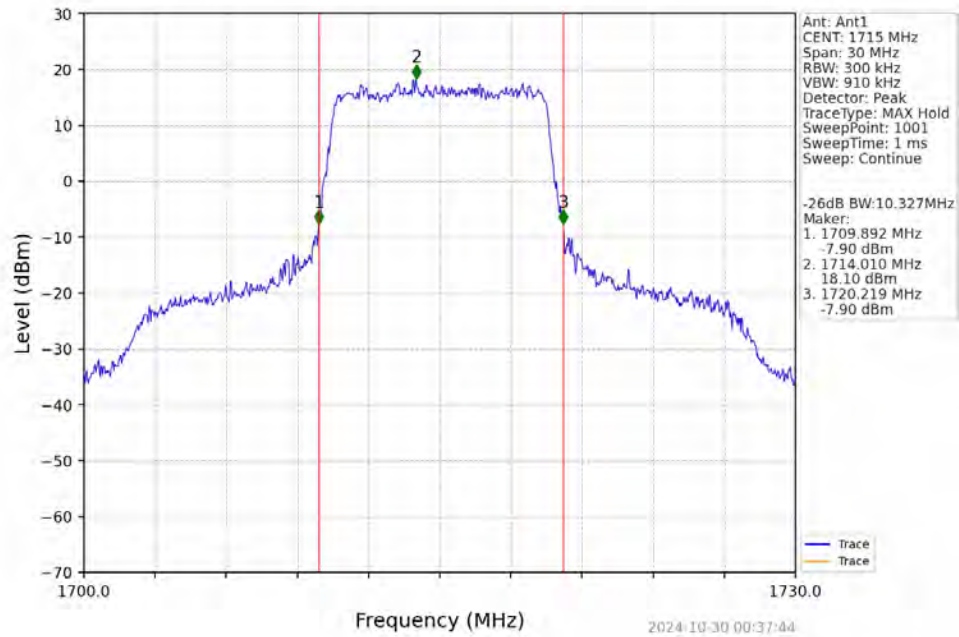
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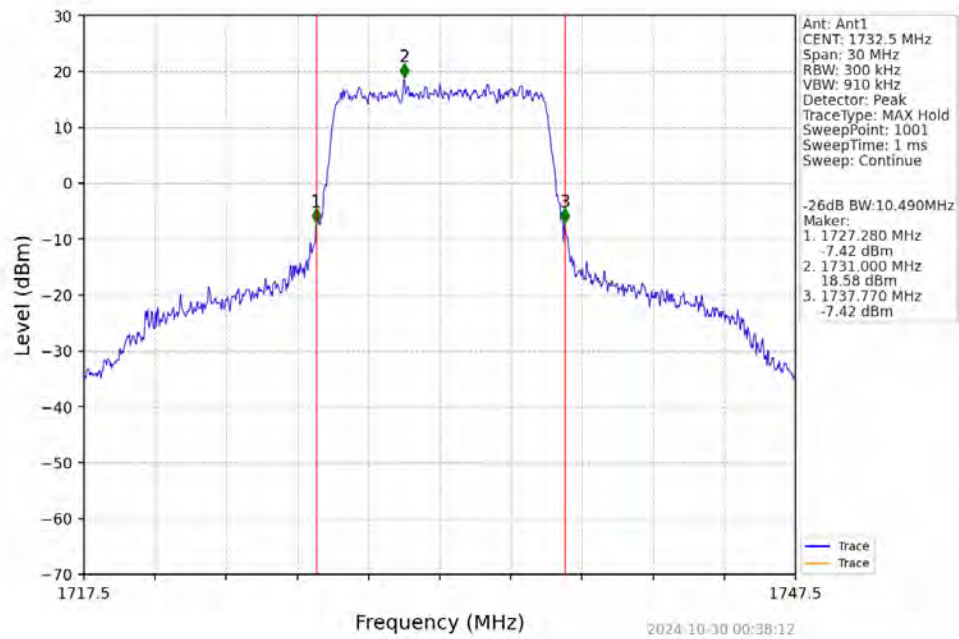
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



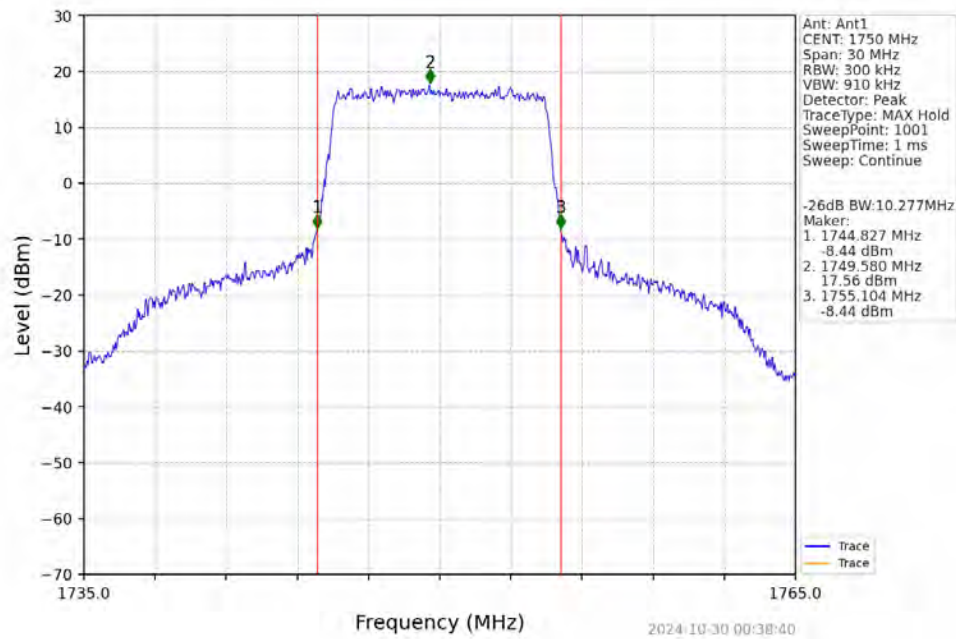
Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV



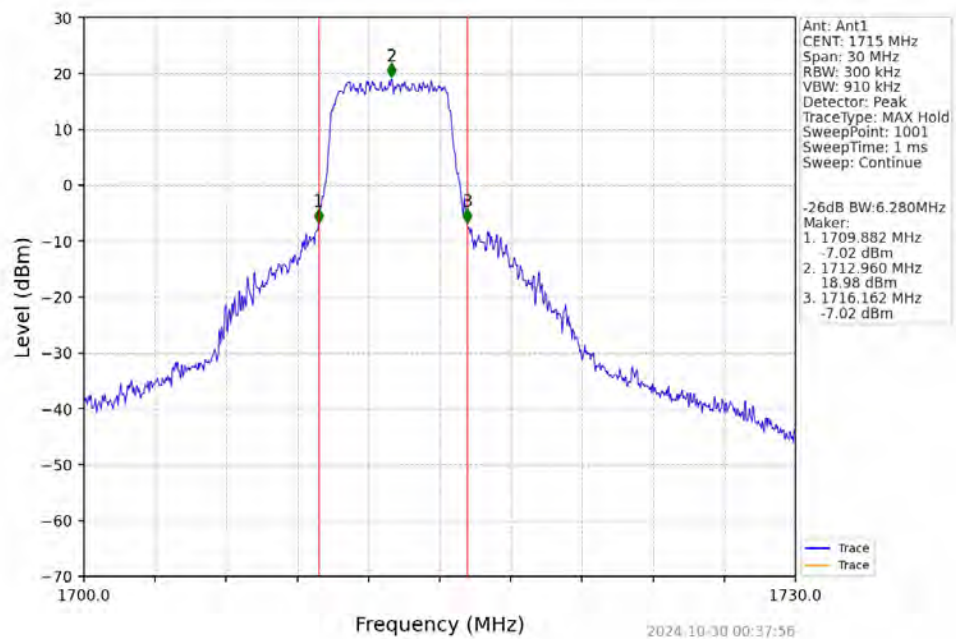
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



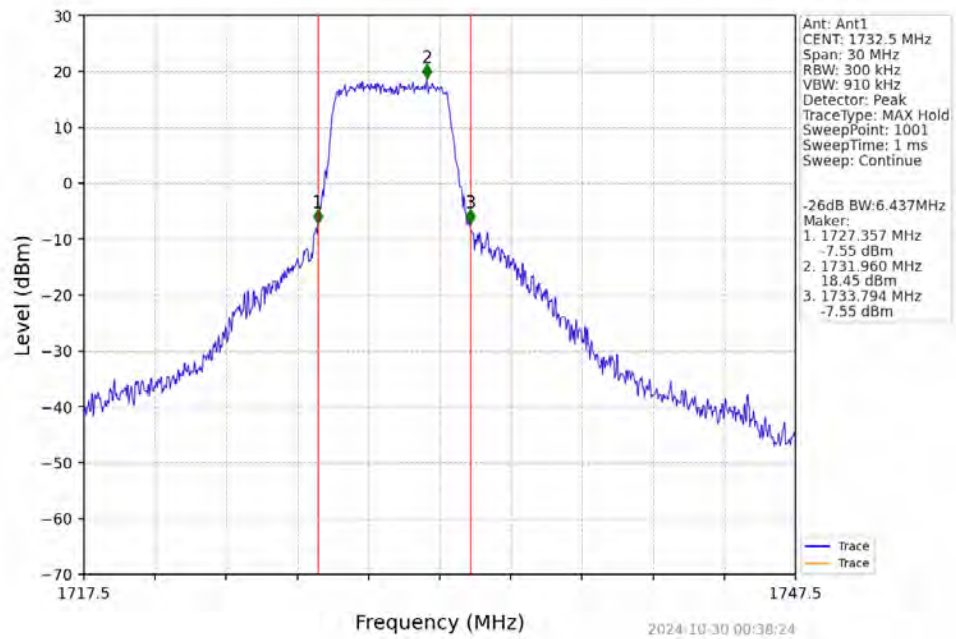
Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



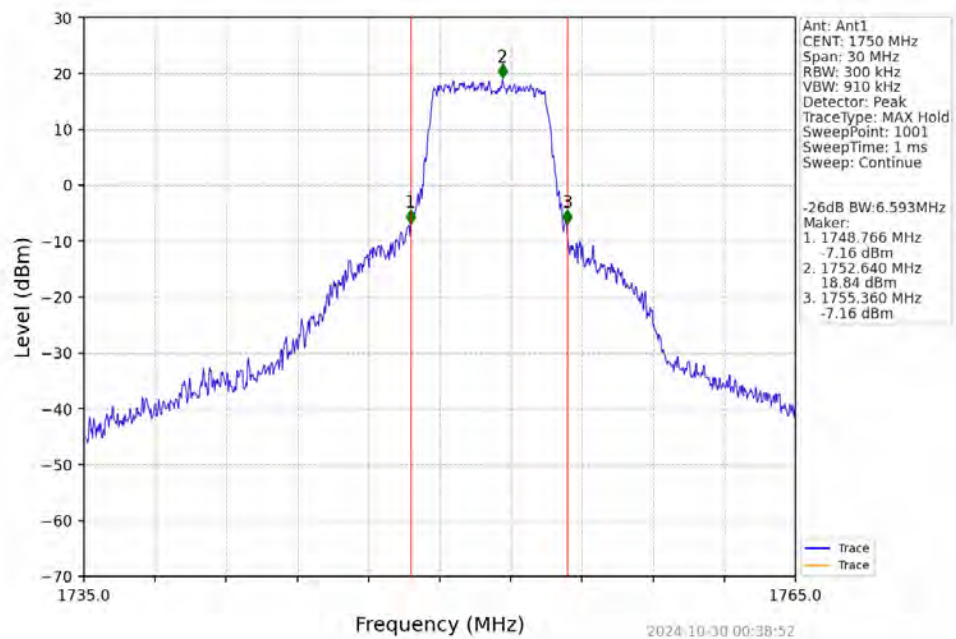
Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTN



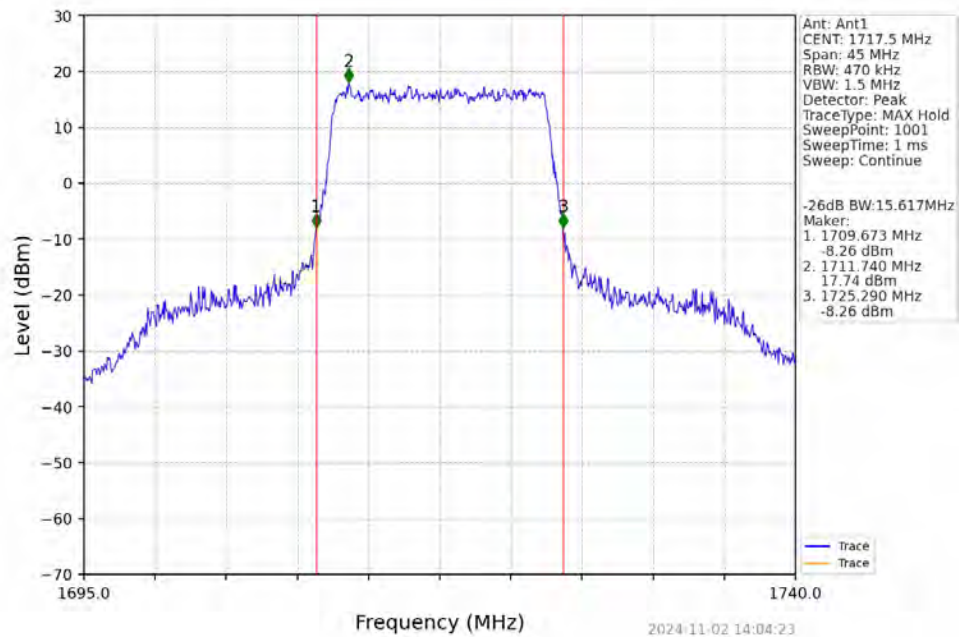
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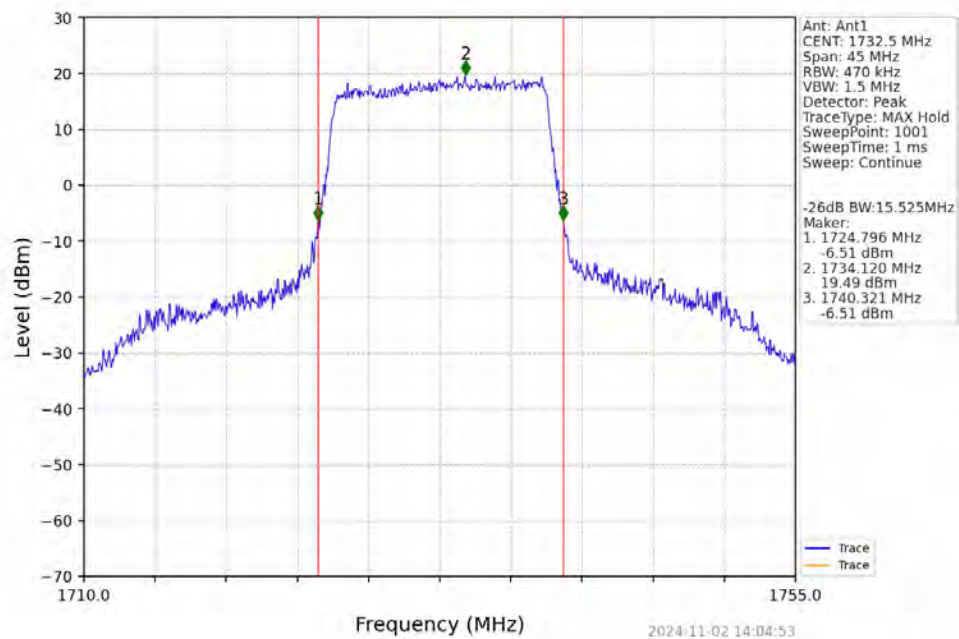
Band4 10MHz 16QAM HCH 1750MHz RB 27 23 NTNV



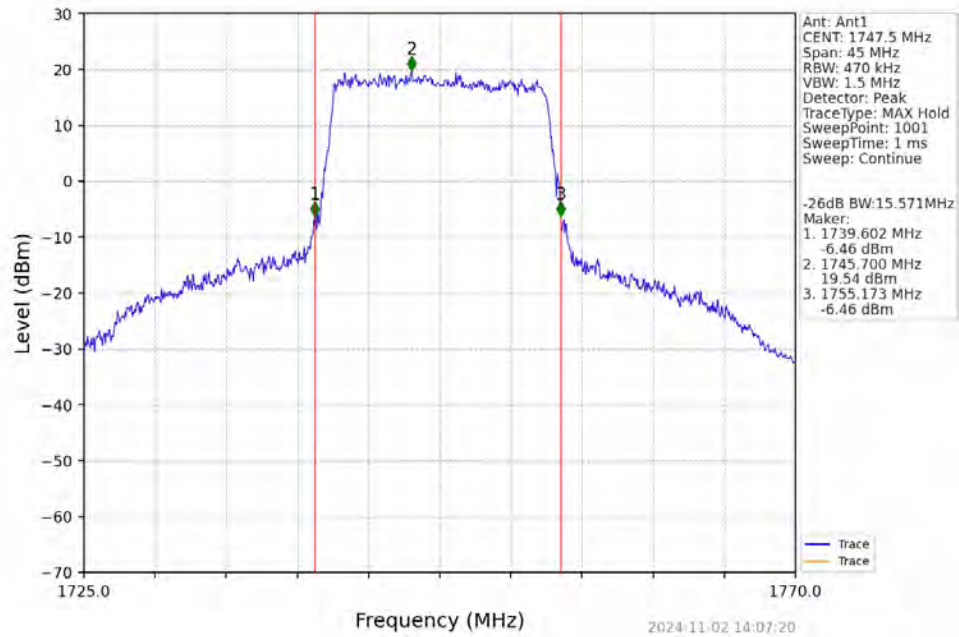
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTNV



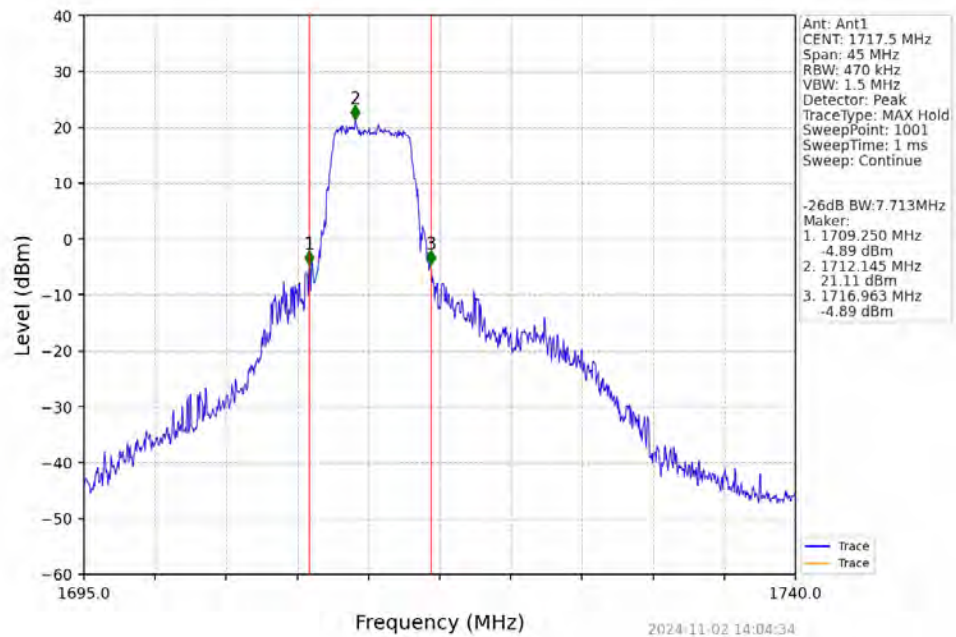
Band4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTNV



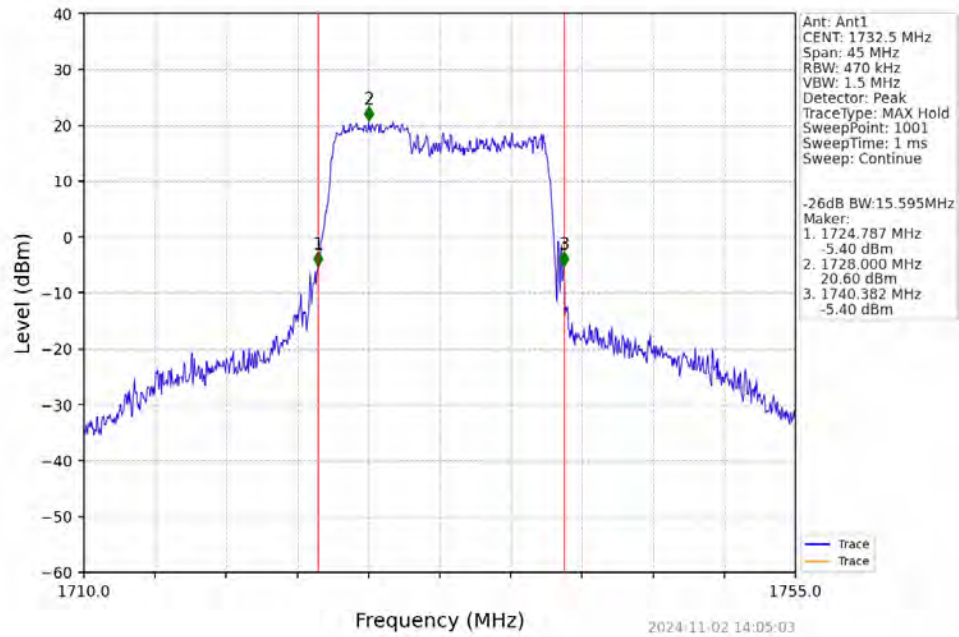
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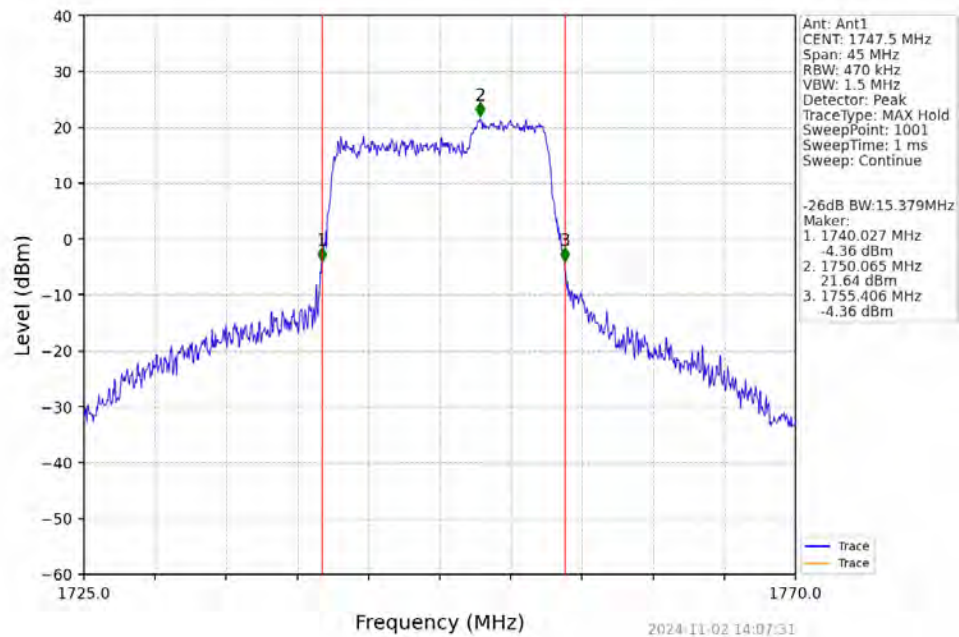
Band4 15MHz 16QAM LCH 1717.5MHz RB 27 0 NTNV



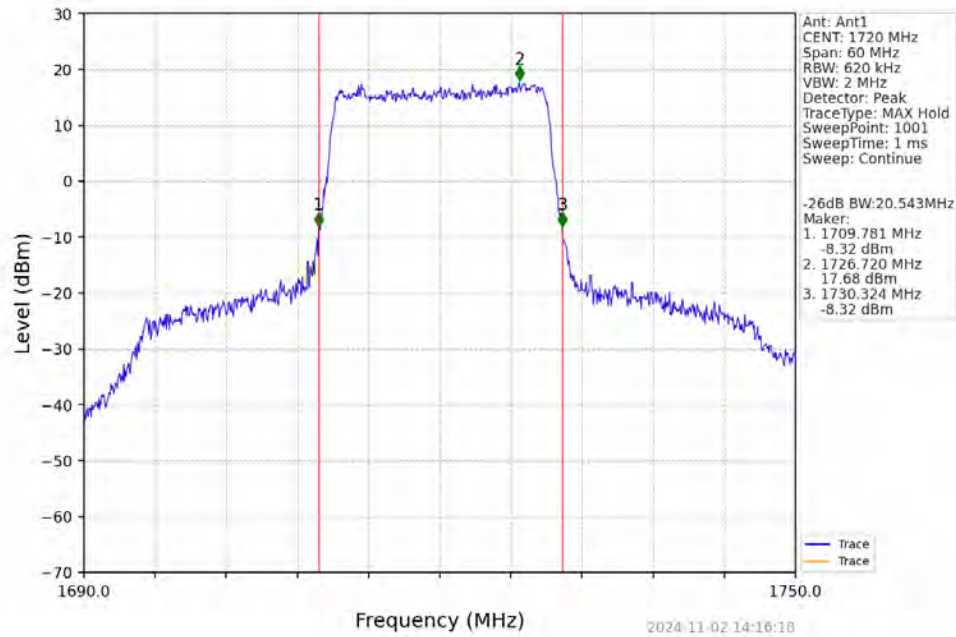
Band4 15MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



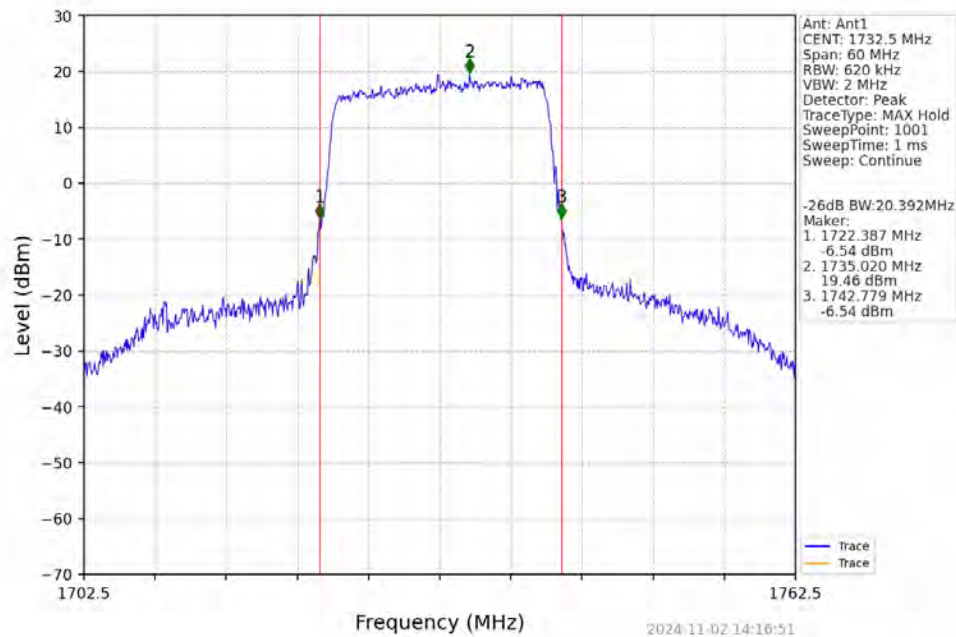
Band4 15MHz 16QAM HCH 1747.5MHz RB 27 48 NTNV



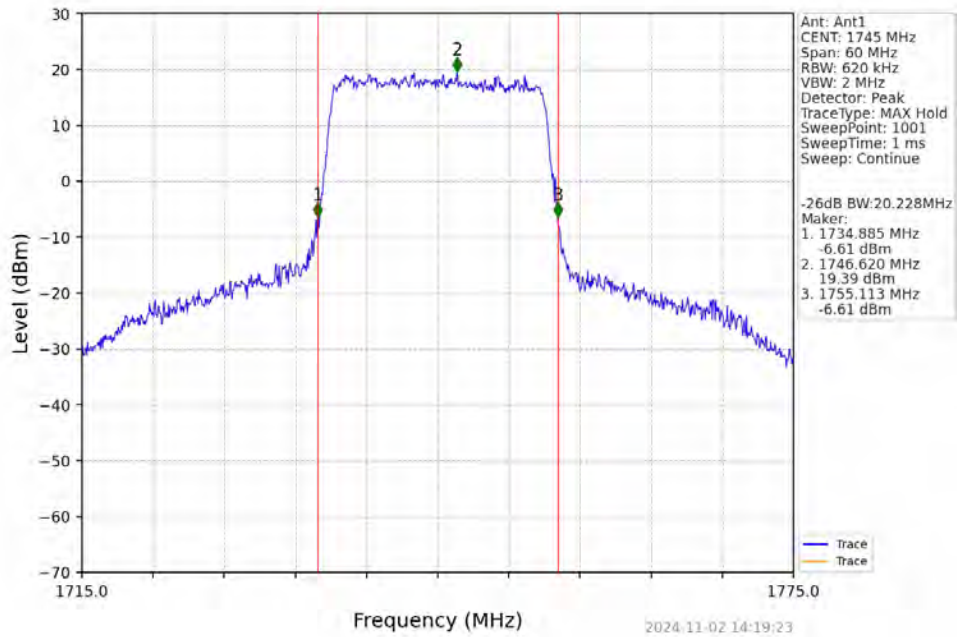
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTN



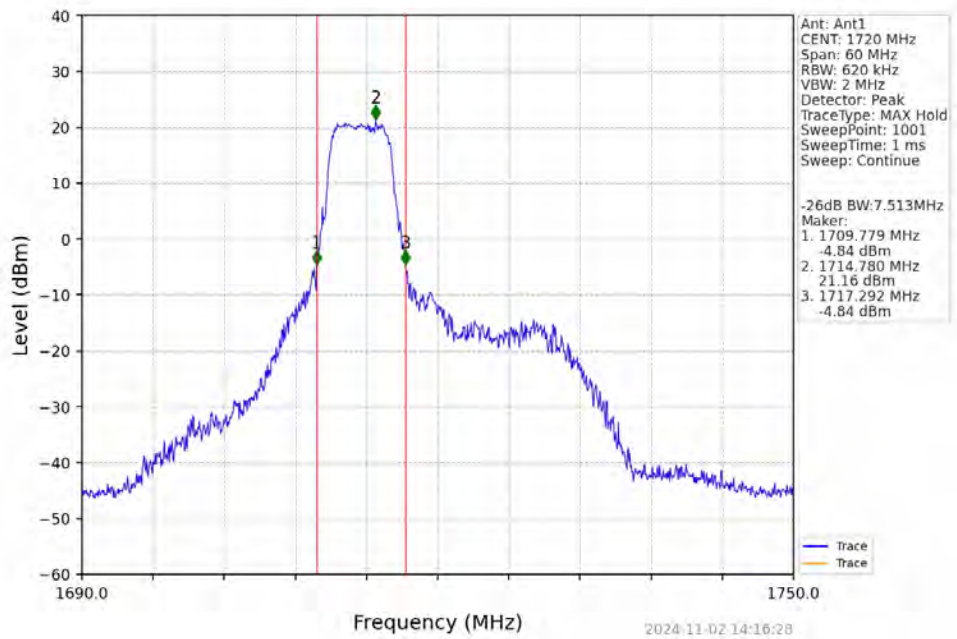
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTN



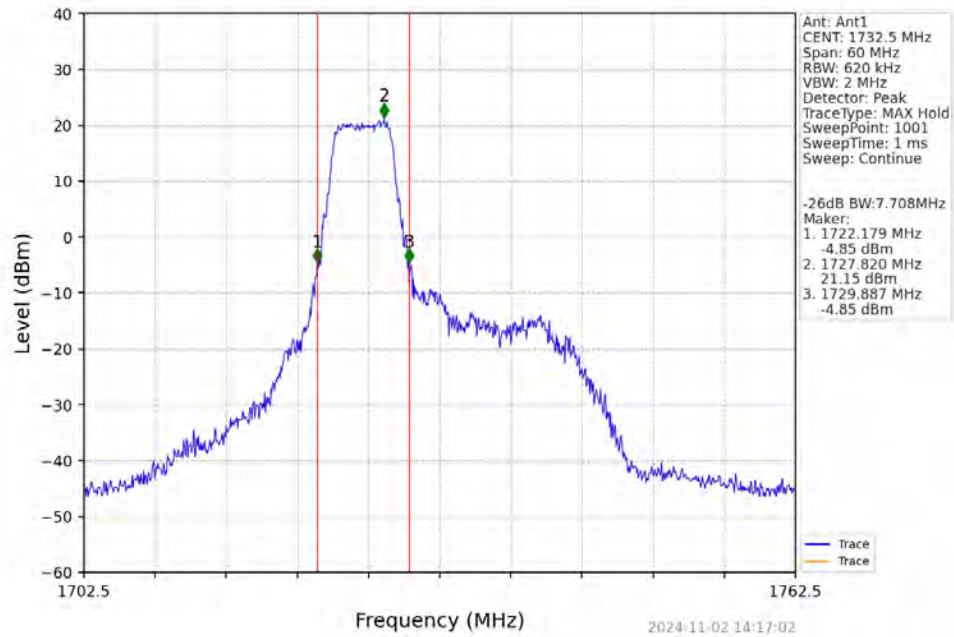
Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



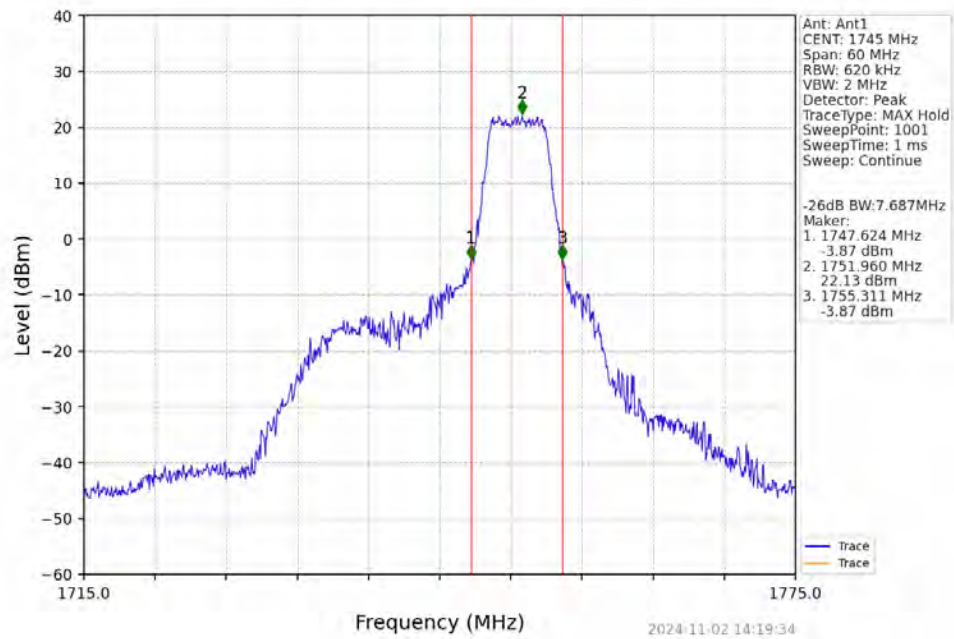
Band4 20MHz 16QAM LCH 1720MHz RB 27 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



Band4 20MHz 16QAM HCH 1745MHz RB 27 73 NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

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	4.35	<=13	Pass
	1732.5	6	0	4.43	<=13	Pass
	1754.3	6	0	4.48	<=13	Pass
16QAM	1710.7	6	0	5.31	<=13	Pass
	1732.5	6	0	5.38	<=13	Pass
	1754.3	6	0	5.35	<=13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	4.76	<=13	Pass
	1732.5	15	0	4.88	<=13	Pass
	1753.5	15	0	4.78	<=13	Pass
16QAM	1711.5	15	0	5.55	<=13	Pass
	1732.5	15	0	5.66	<=13	Pass
	1753.5	15	0	5.57	<=13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.23	<=13	Pass
	1732.5	25	0	5.14	<=13	Pass
	1752.5	25	0	5.11	<=13	Pass
16QAM	1712.5	25	0	5.83	<=13	Pass
	1732.5	25	0	5.81	<=13	Pass
	1752.5	25	0	5.84	<=13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.25	<=13	Pass
	1732.5	50	0	5.10	<=13	Pass
	1750	50	0	4.95	<=13	Pass
16QAM	1715	27	0	5.60	<=13	Pass
	1732.5	27	0	5.83	<=13	Pass

	1750	27	23	5.46	<=13	Pass
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5.1.5 B4_15MHz

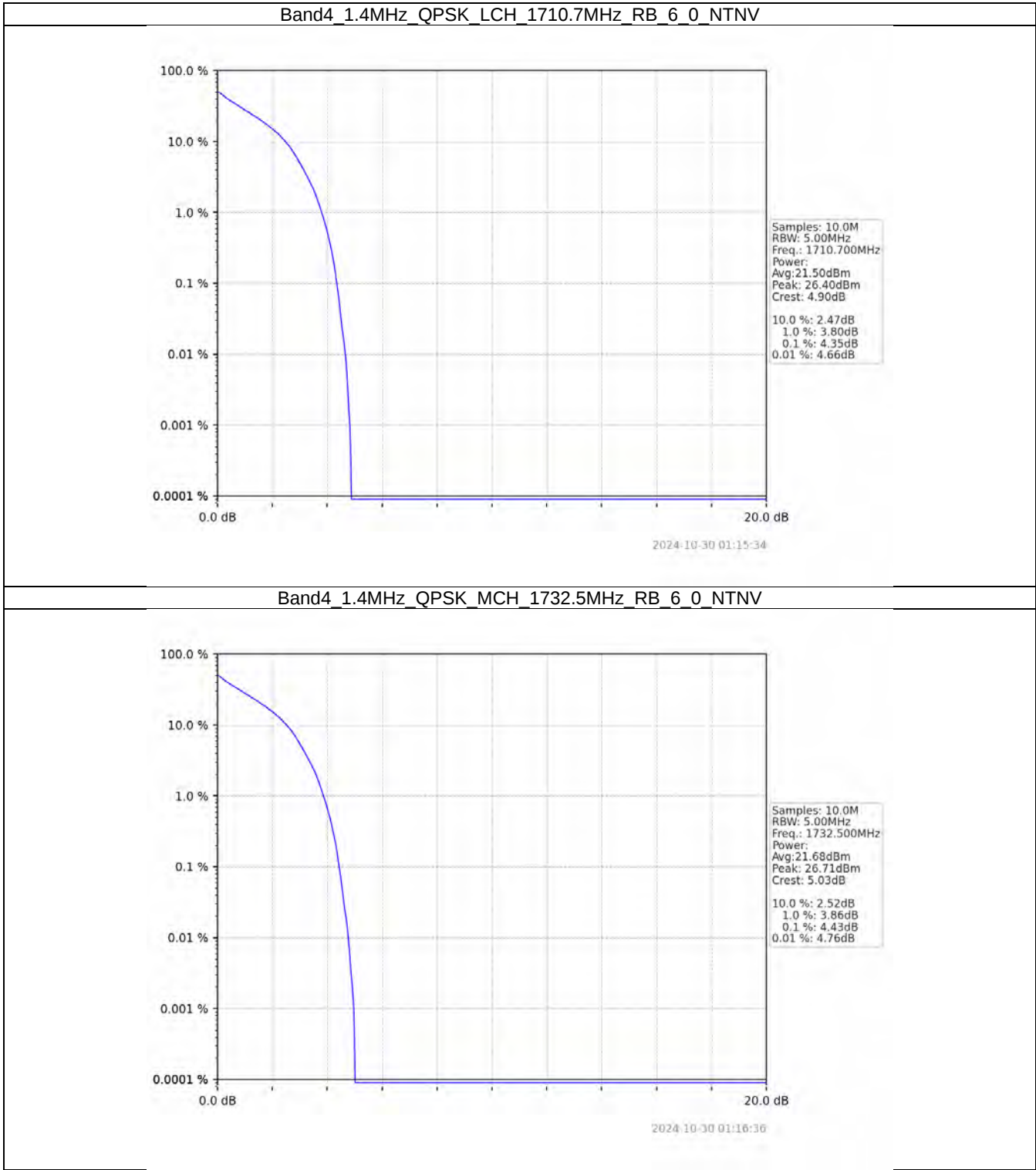
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	8.39	<=13	Pass
	1732.5	75	0	8.40	<=13	Pass
	1747.5	75	0	8.39	<=13	Pass
16QAM	1717.5	27	0	8.40	<=13	Pass
	1732.5	27	0	8.38	<=13	Pass
	1747.5	27	48	8.39	<=13	Pass

5.1.6 B4_20MHz

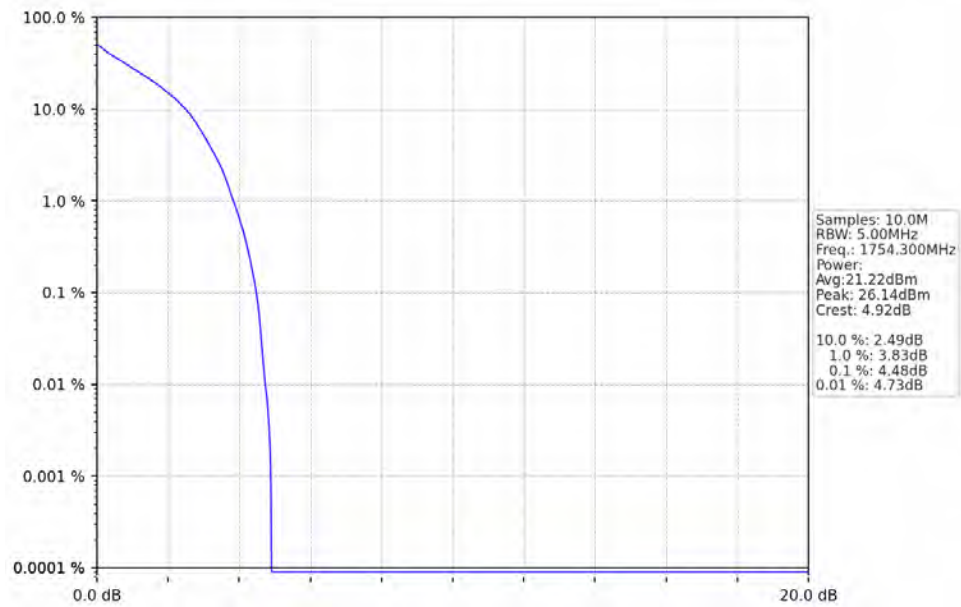
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	8.40	<=13	Pass
	1732.5	100	0	8.40	<=13	Pass
	1745	100	0	8.40	<=13	Pass
16QAM	1720	27	0	8.39	<=13	Pass
	1732.5	27	0	8.39	<=13	Pass
	1745	27	73	8.40	<=13	Pass

5.2 Test Graph

5.2.1 B4_1.4MHz

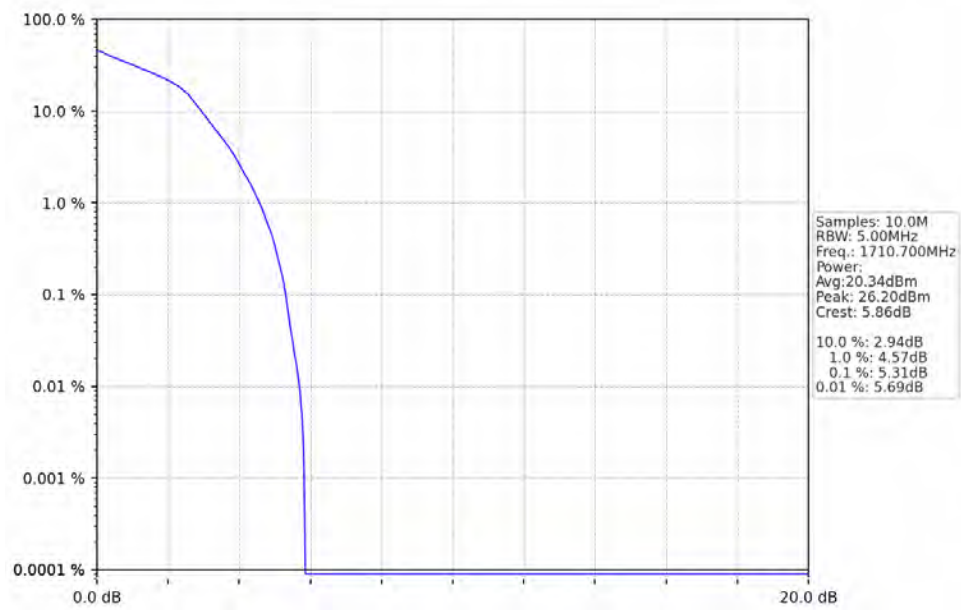


Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



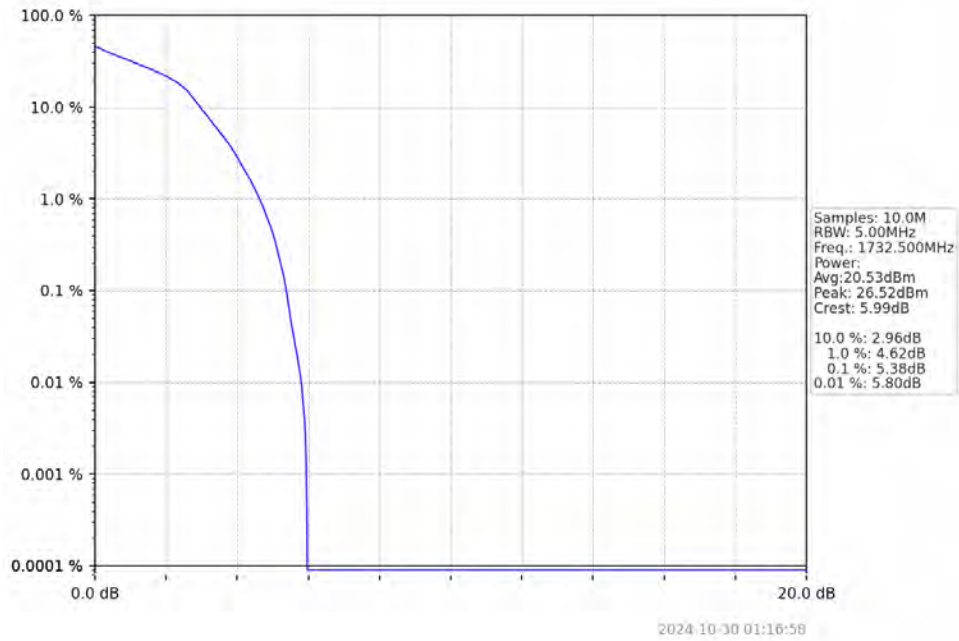
2024-10-30 01:17:20

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

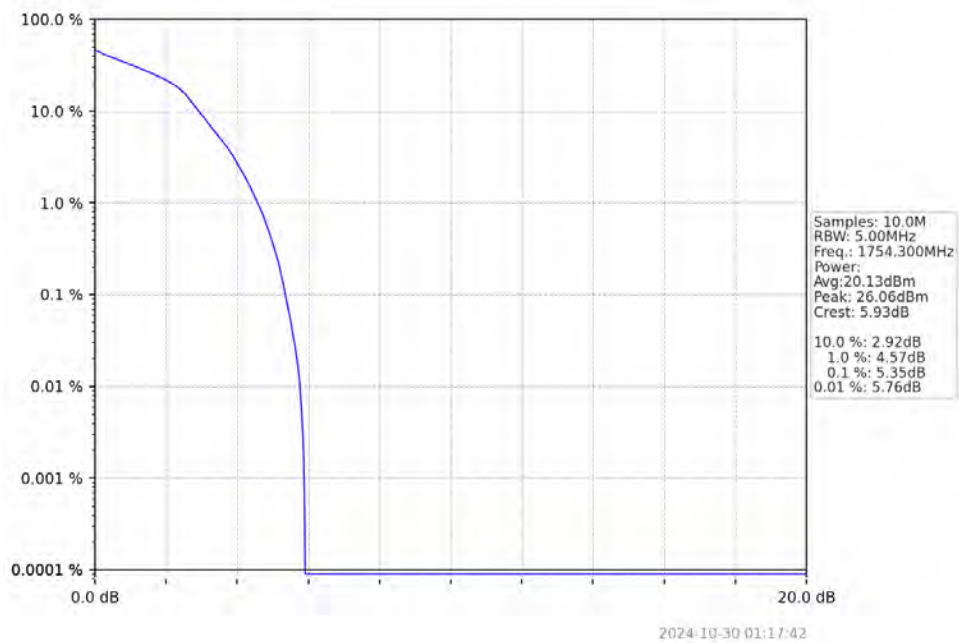


2024-10-30 01:15:55

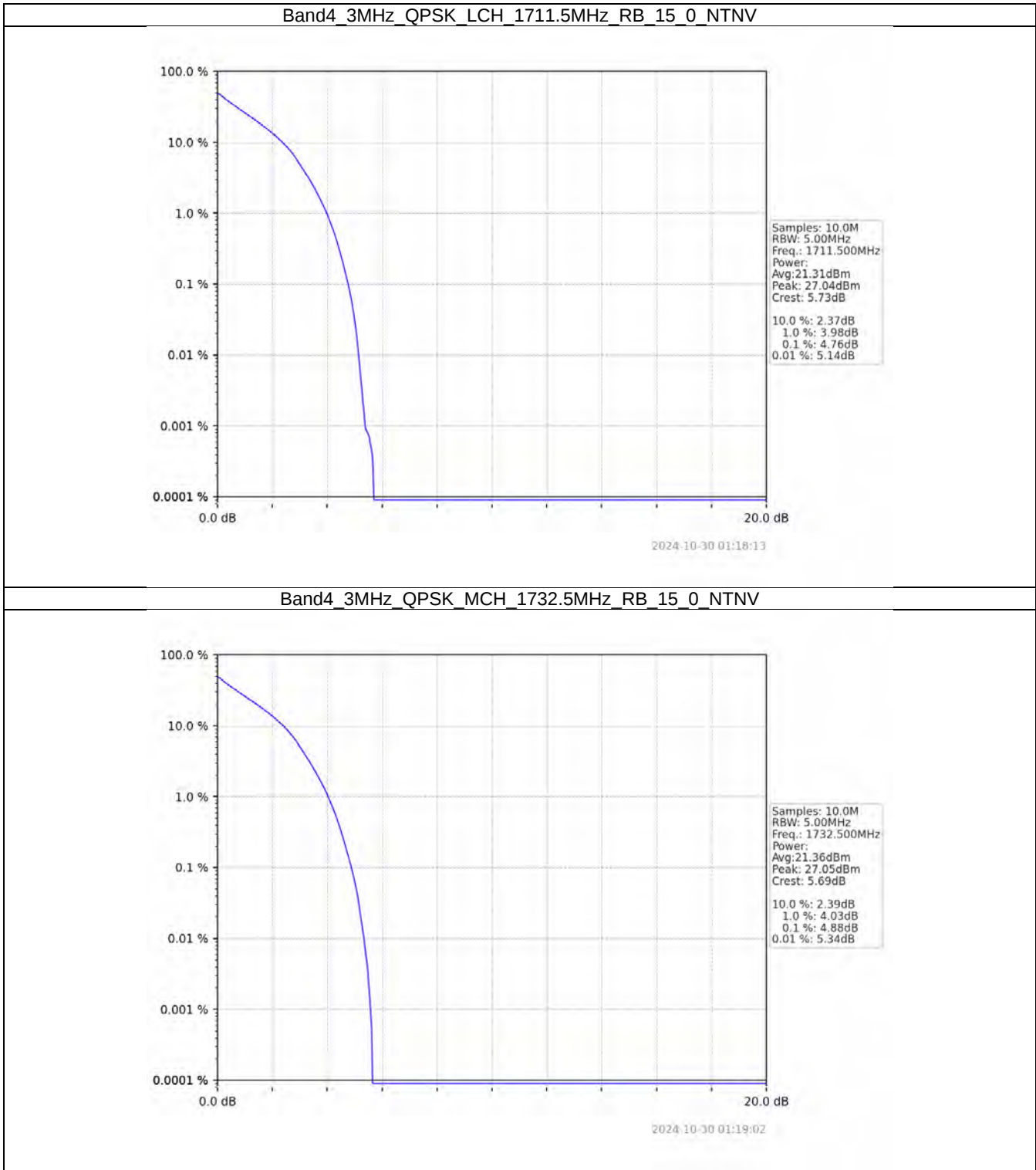
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



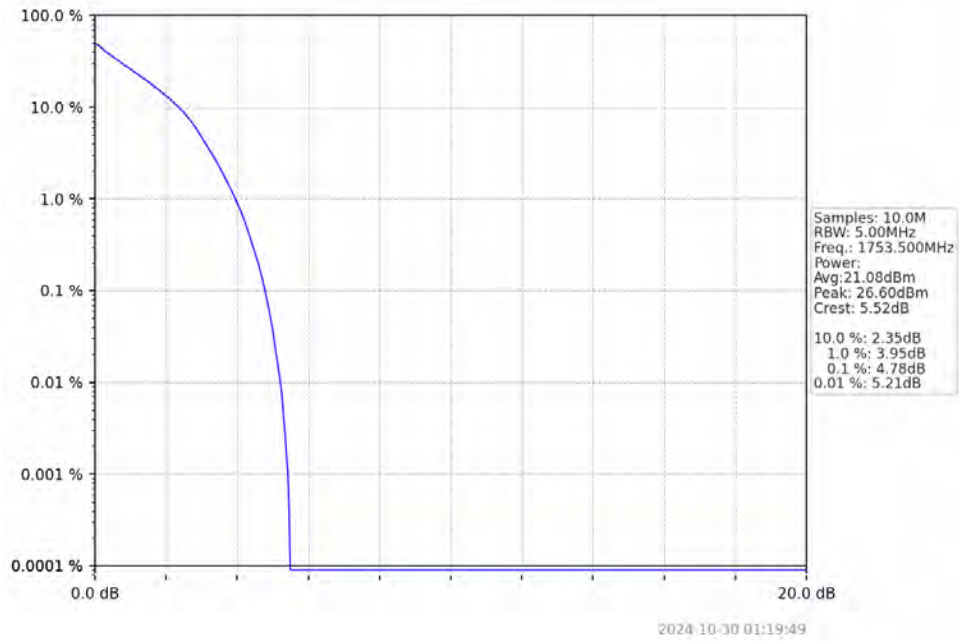
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



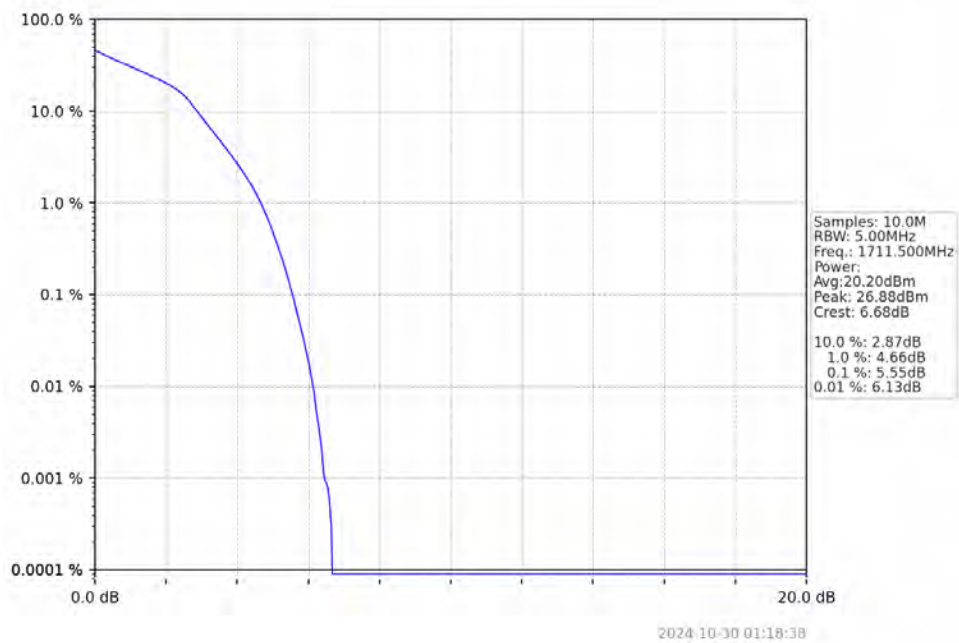
5.2.2 B4_3MHz



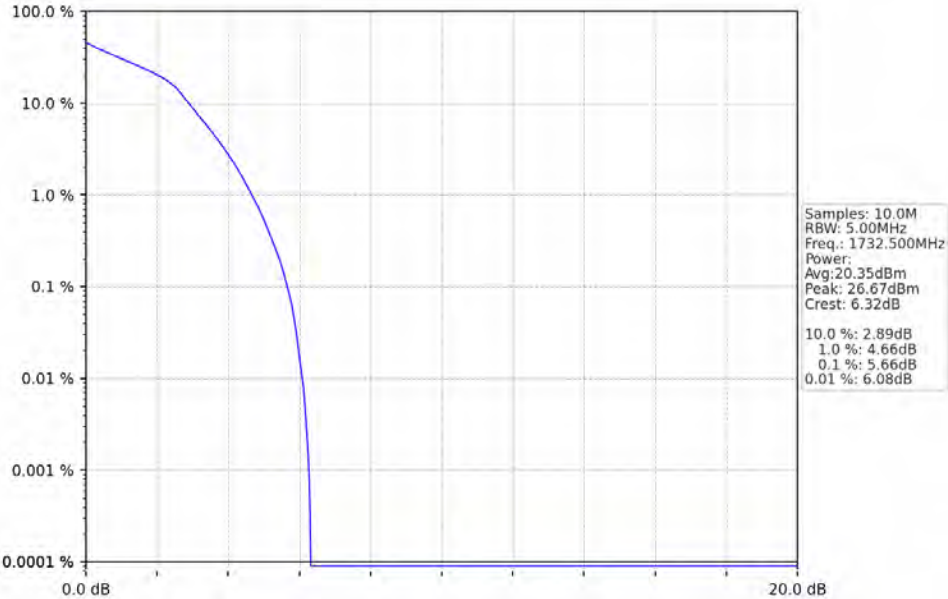
Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



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

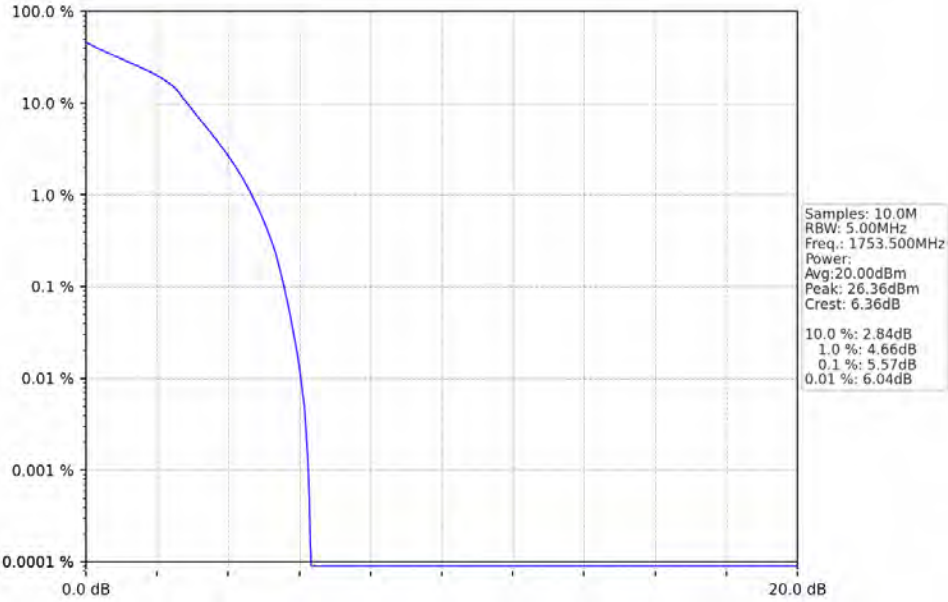


Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTV



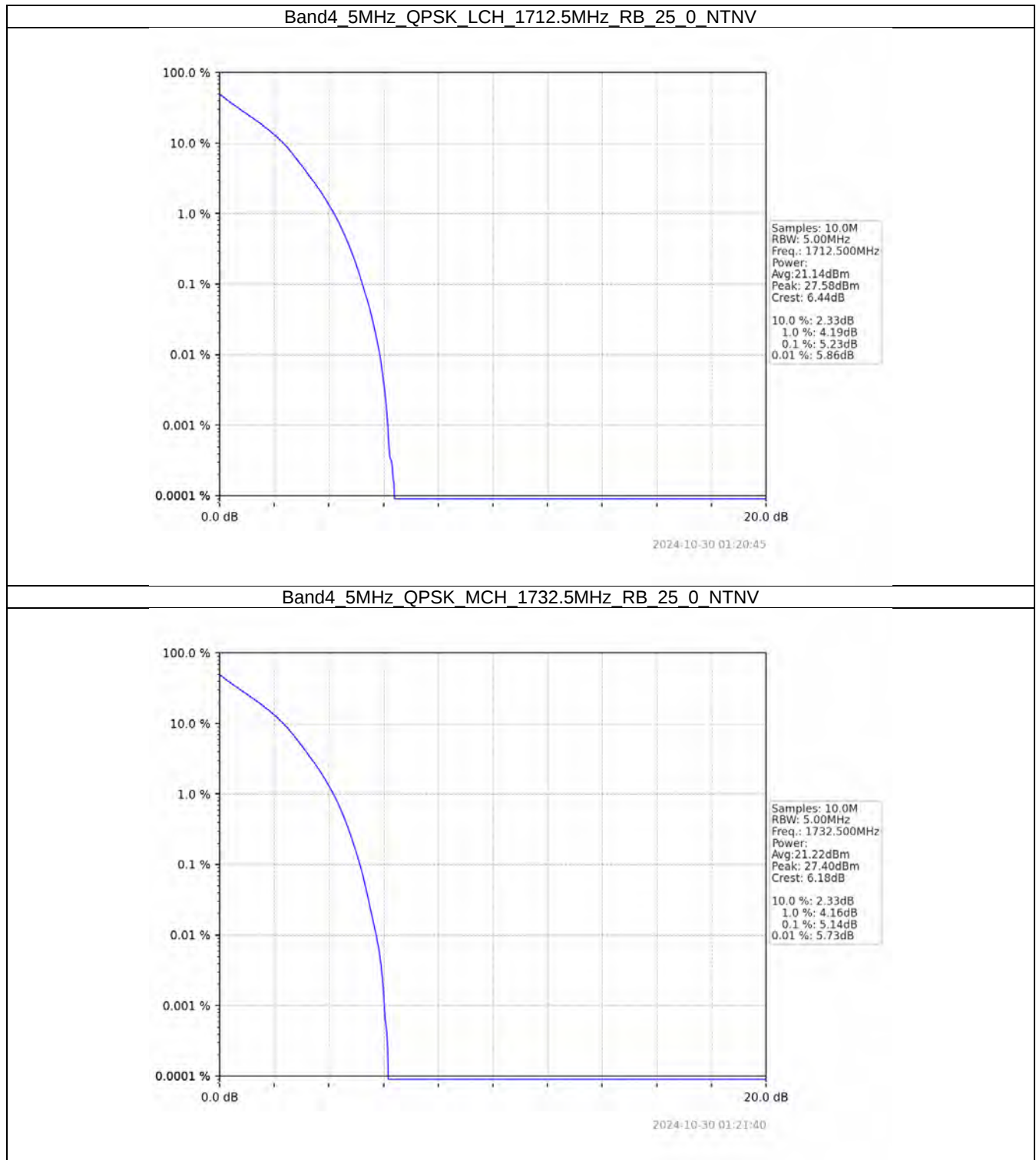
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Band4 3MHz 16QAM HCH 1753.5MHz RB 15 0 NTV

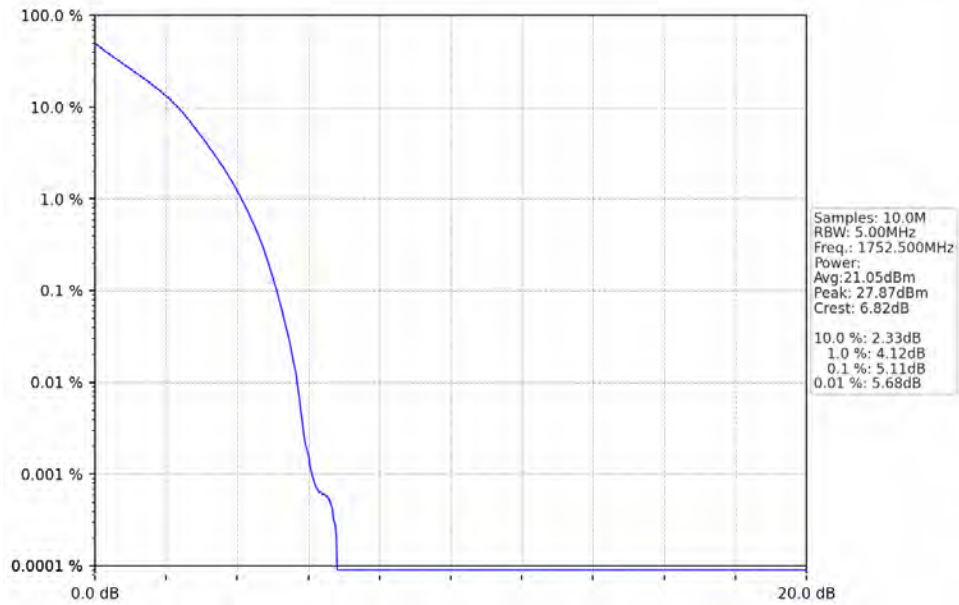


2024-10-30 01:20:12

5.2.3 B4_5MHz

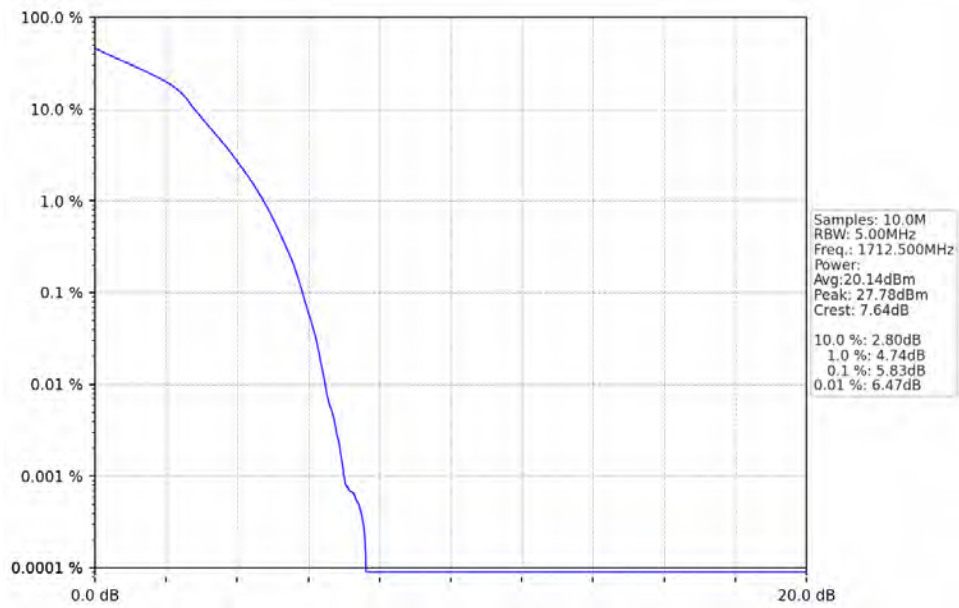


Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN



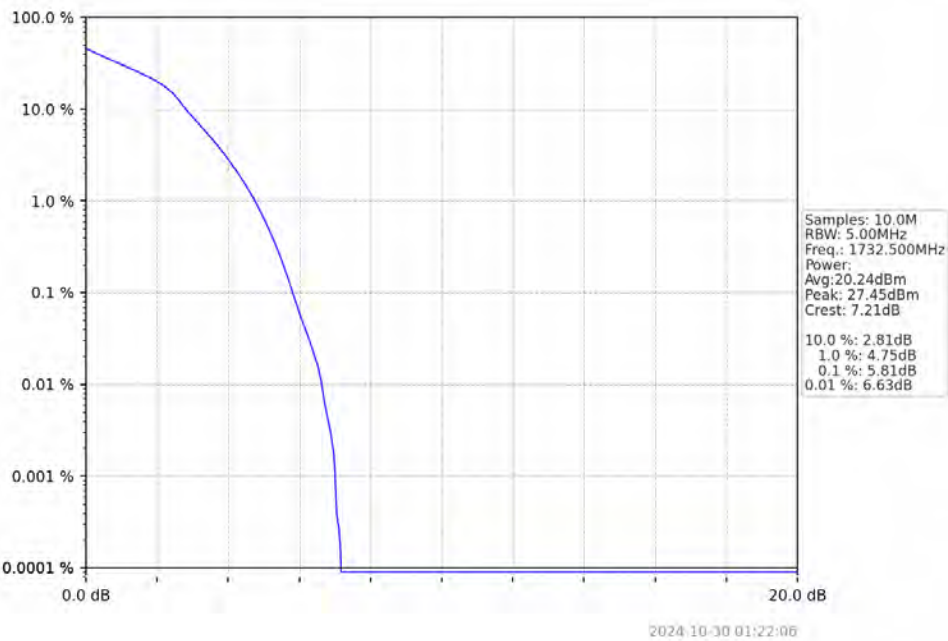
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Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTN

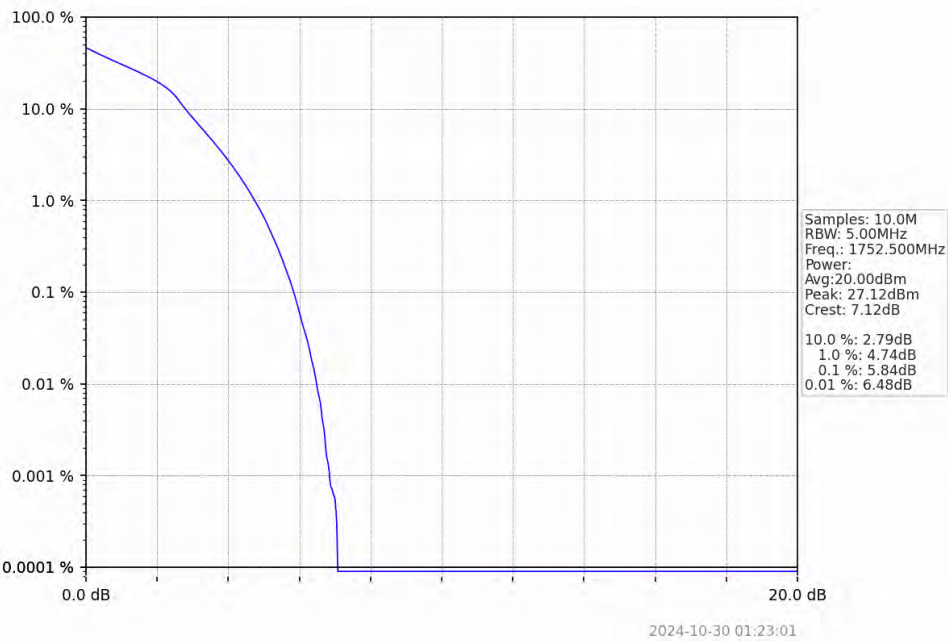


2024-10-30 01:21:14

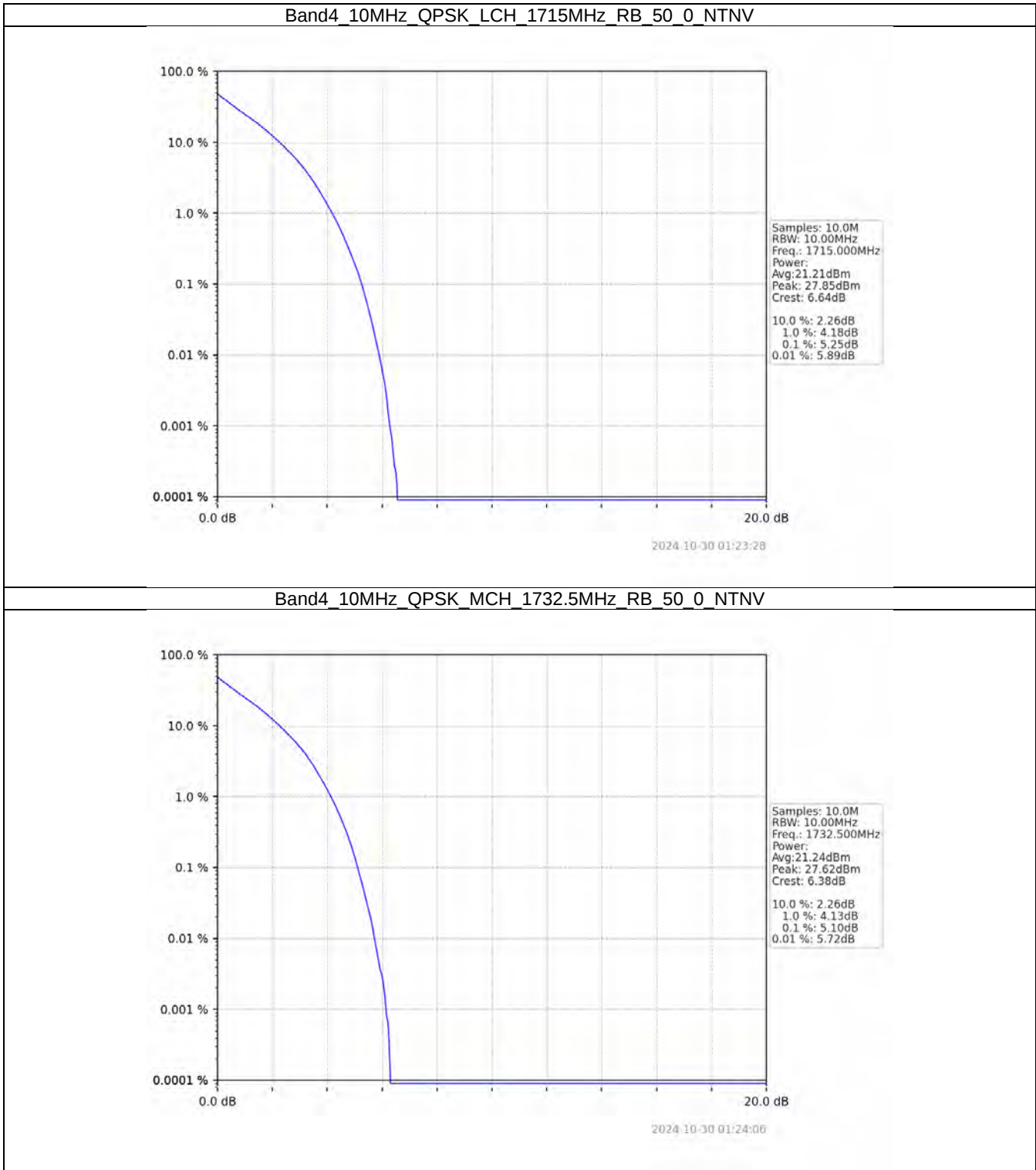
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



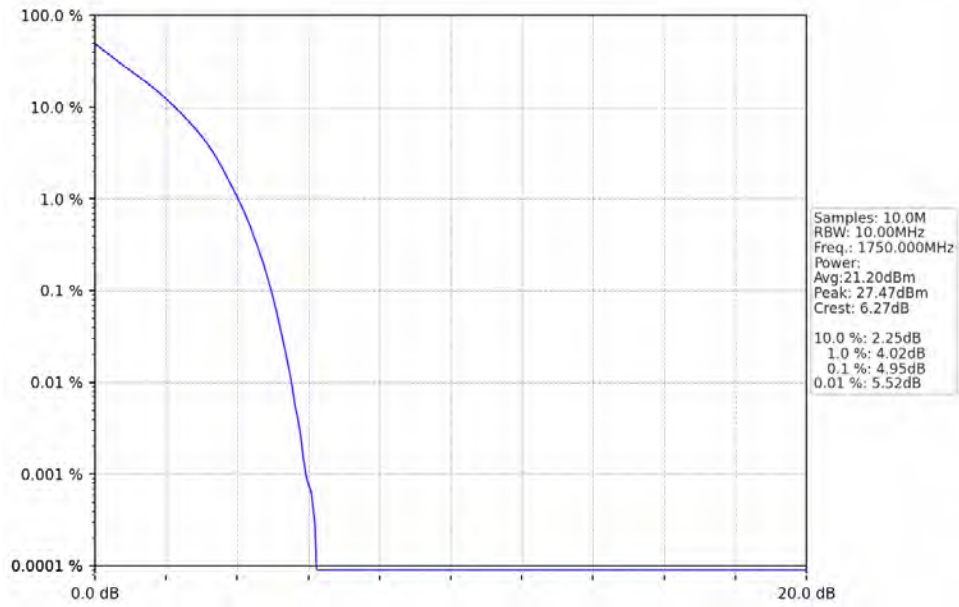
Band4 5MHz 16QAM HCH 1752.5MHz RB 25 0 NTNV



5.2.4 B4_10MHz

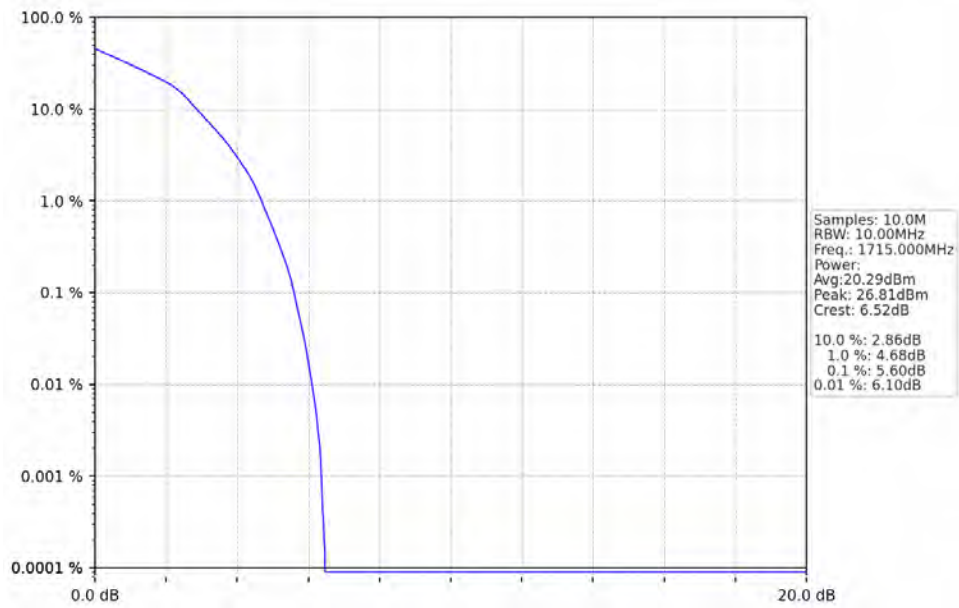


Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTN



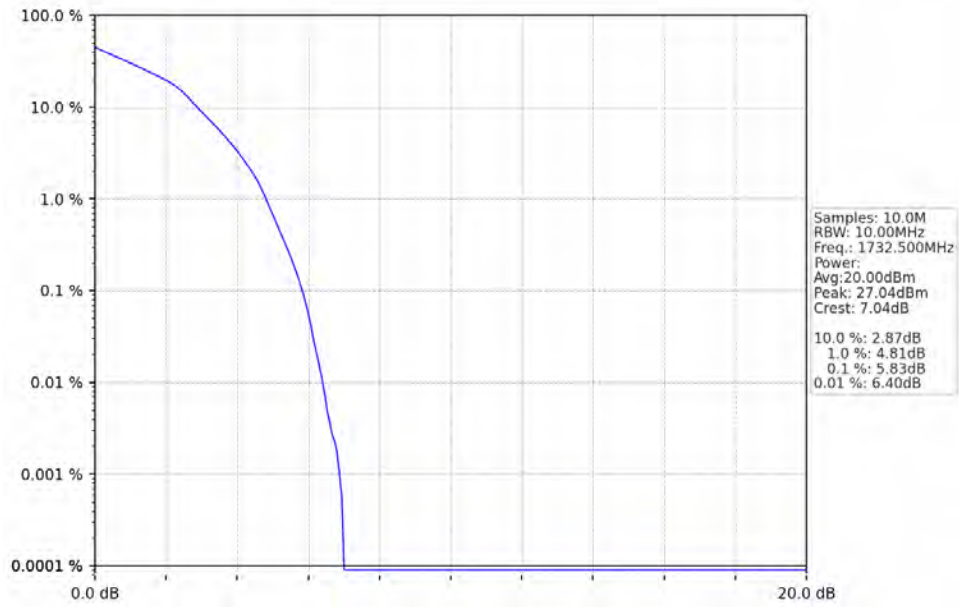
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Band4 10MHz 16QAM LCH 1715MHz RB 27 0 NTN



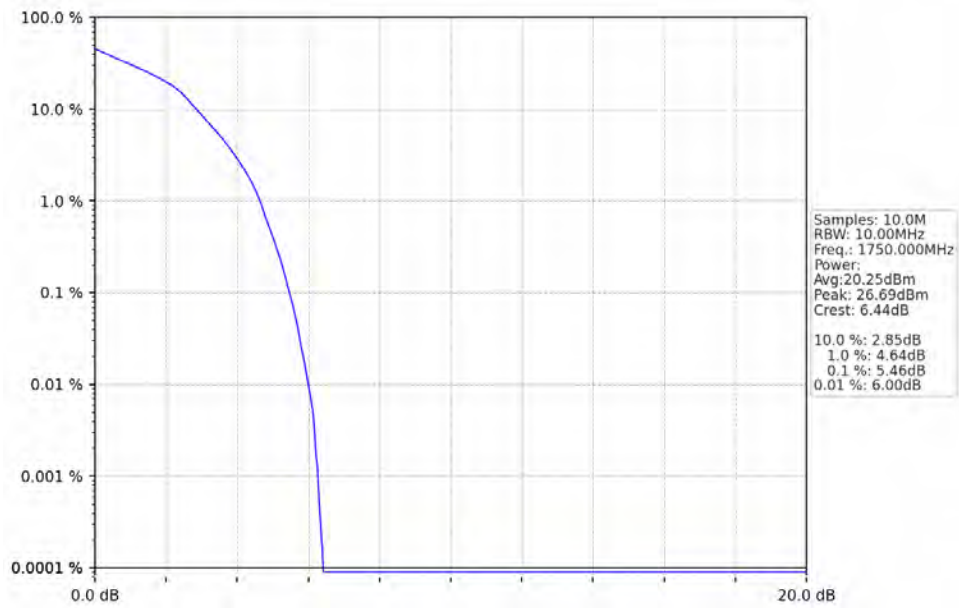
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Band4 10MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



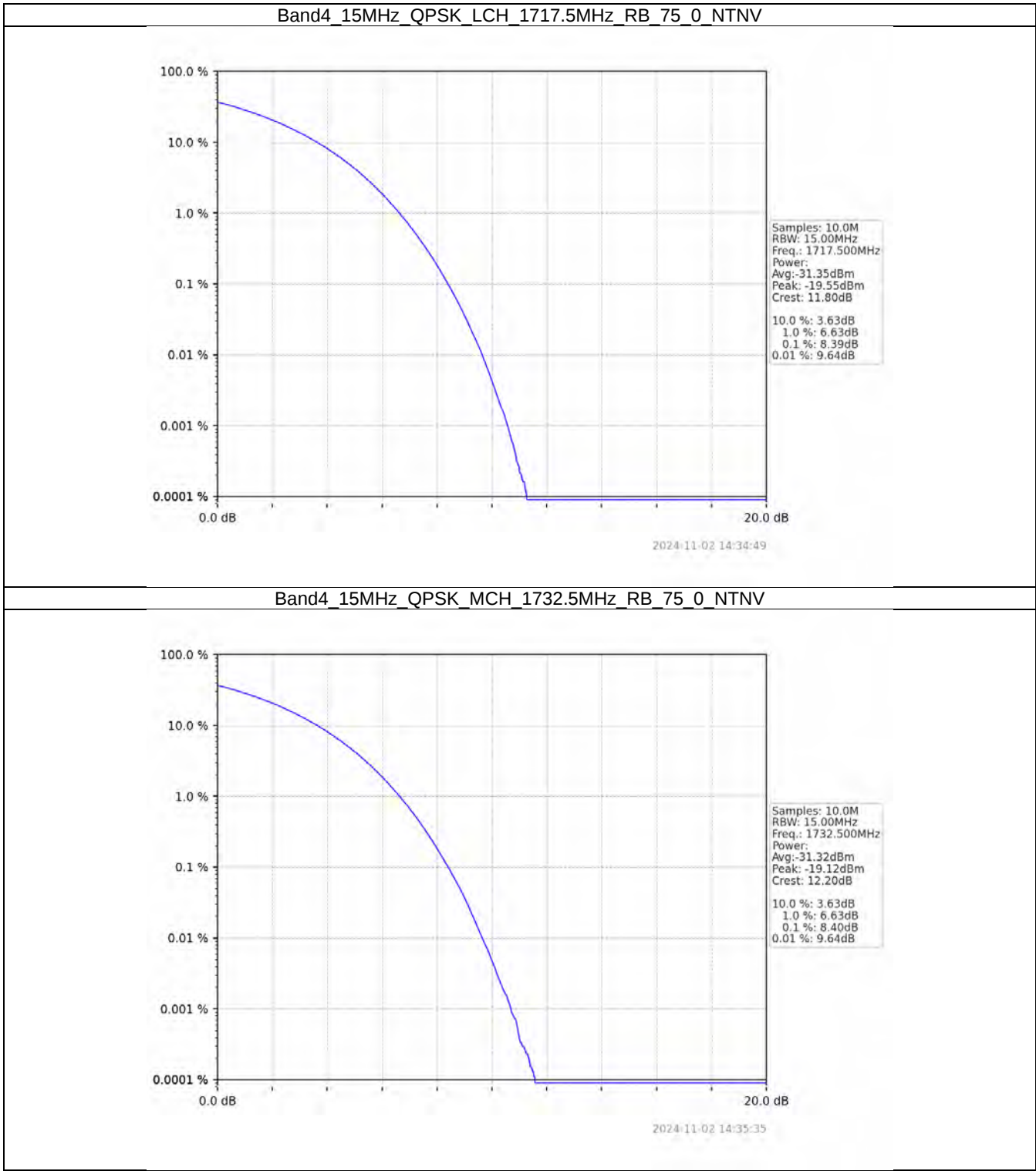
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Band4 10MHz 16QAM HCH 1750MHz RB 27 23 NTNV

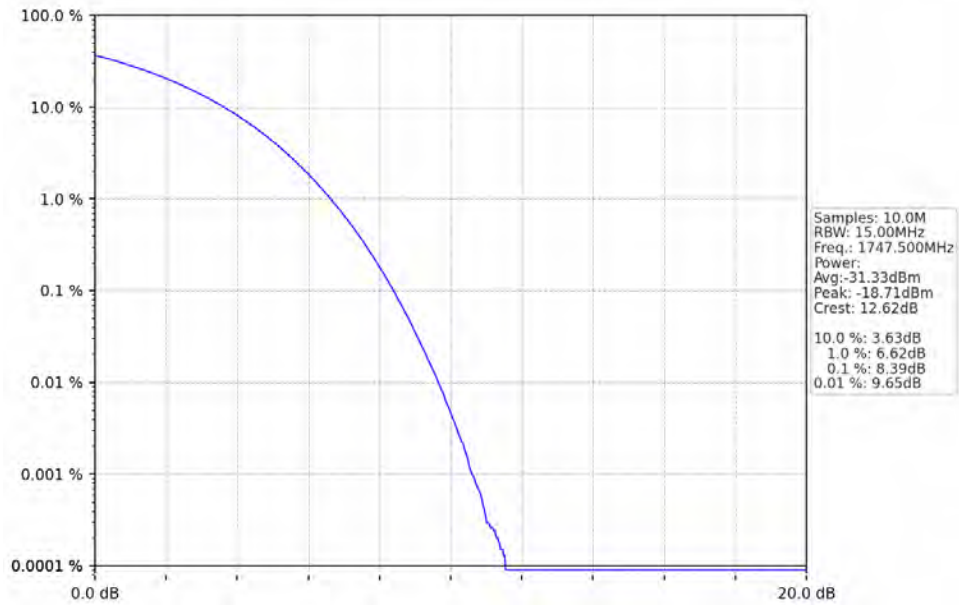


2024-10-30 01:25:02

5.2.5 B4_15MHz

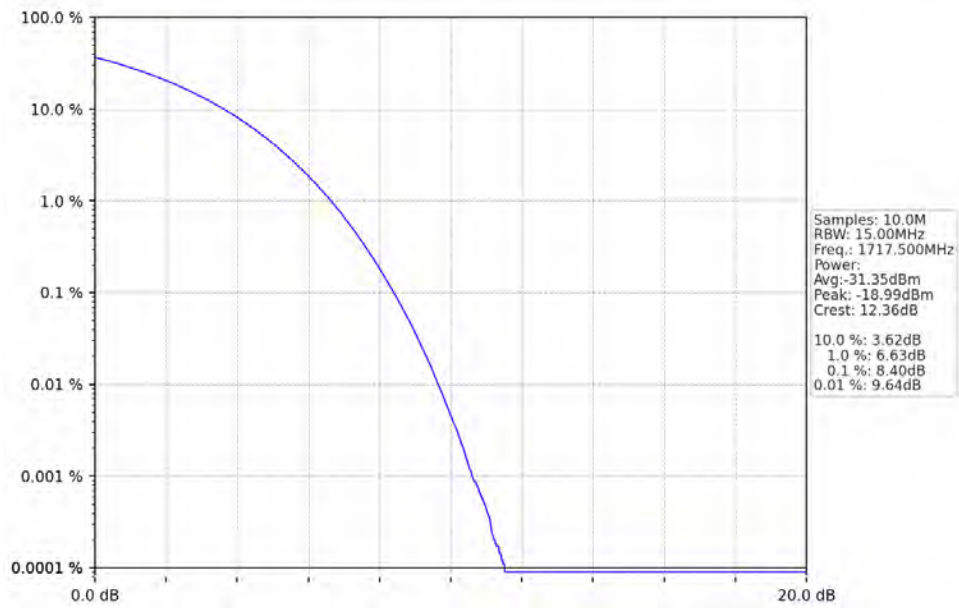


Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTV



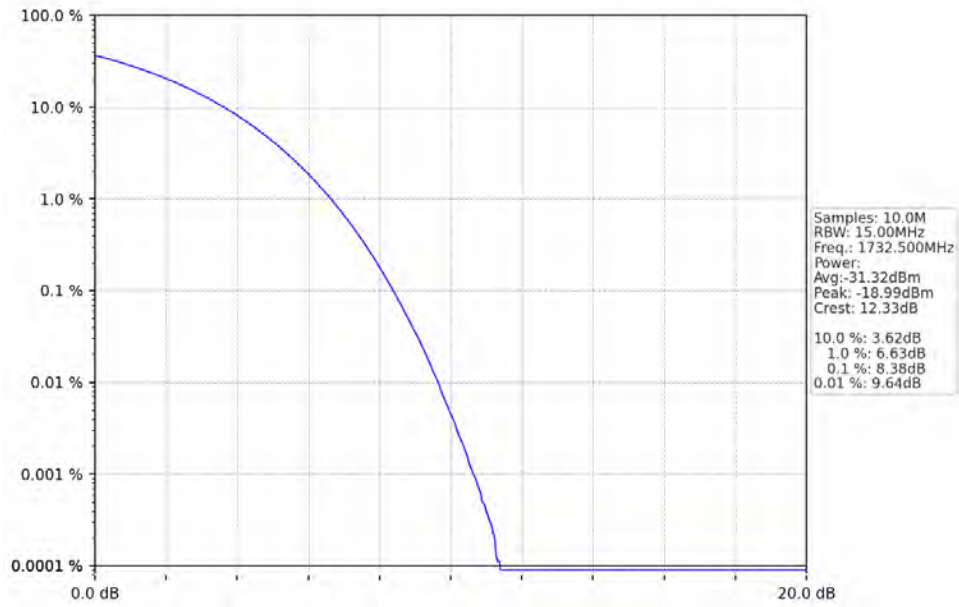
2024-11-02 14:36:21

Band4 15MHz 16QAM LCH 1717.5MHz RB 27 0 NTV



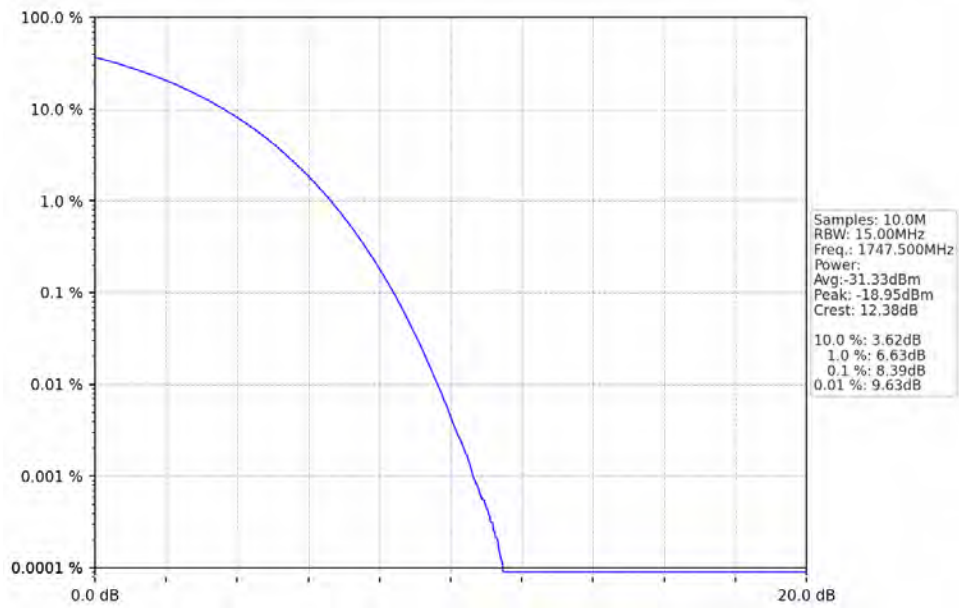
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Band4 15MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



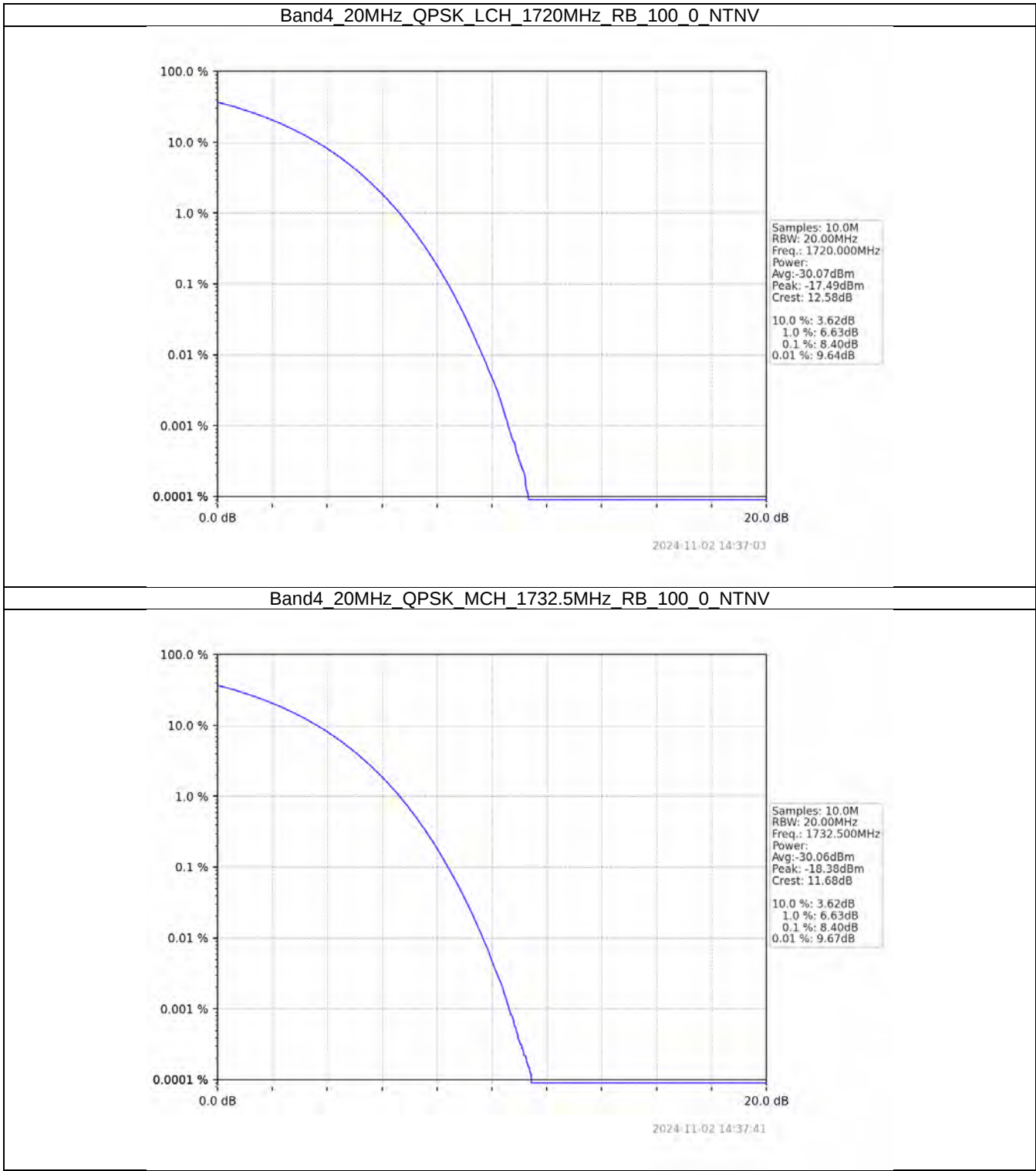
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Band4 15MHz 16QAM HCH 1747.5MHz RB 27 48 NTNV

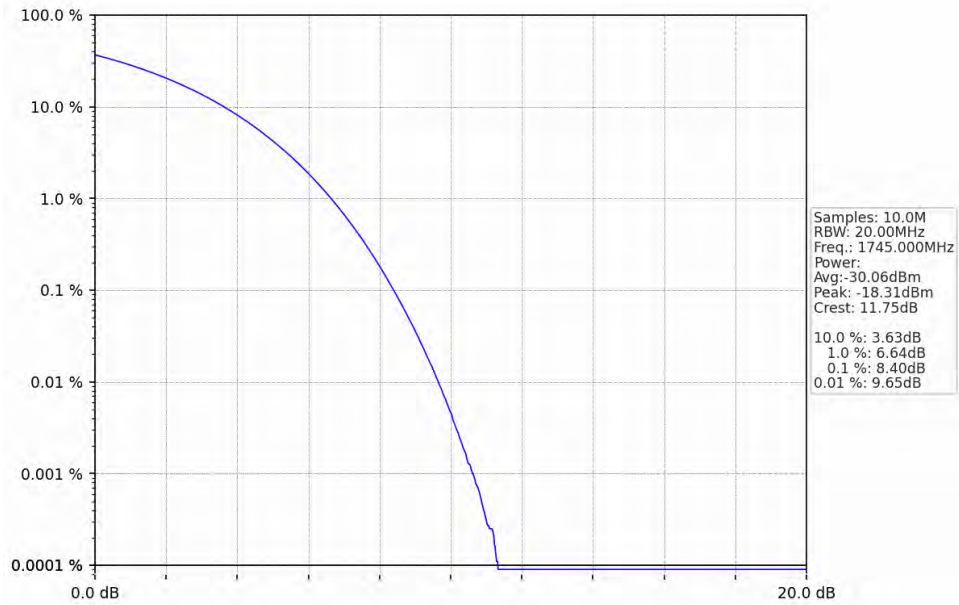


2024-11-02 14:36:42

5.2.6 B4_20MHz

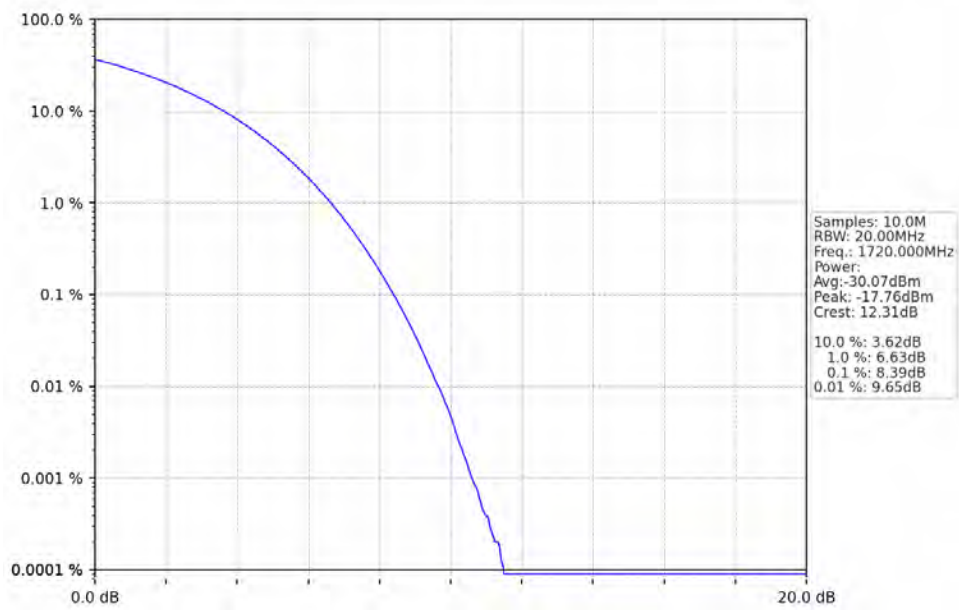


Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTNV



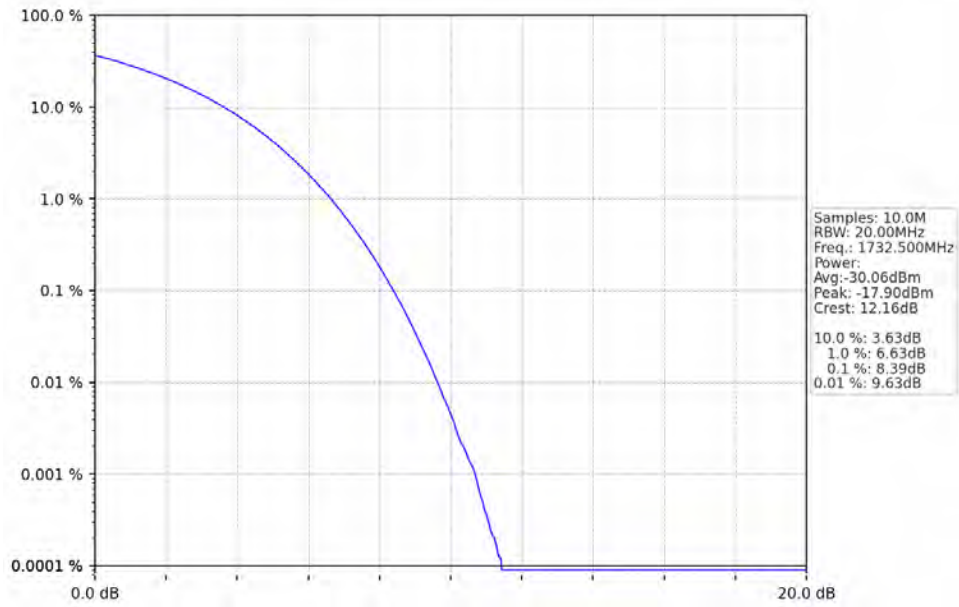
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Band4 20MHz 16QAM LCH 1720MHz RB 27 0 NTNV



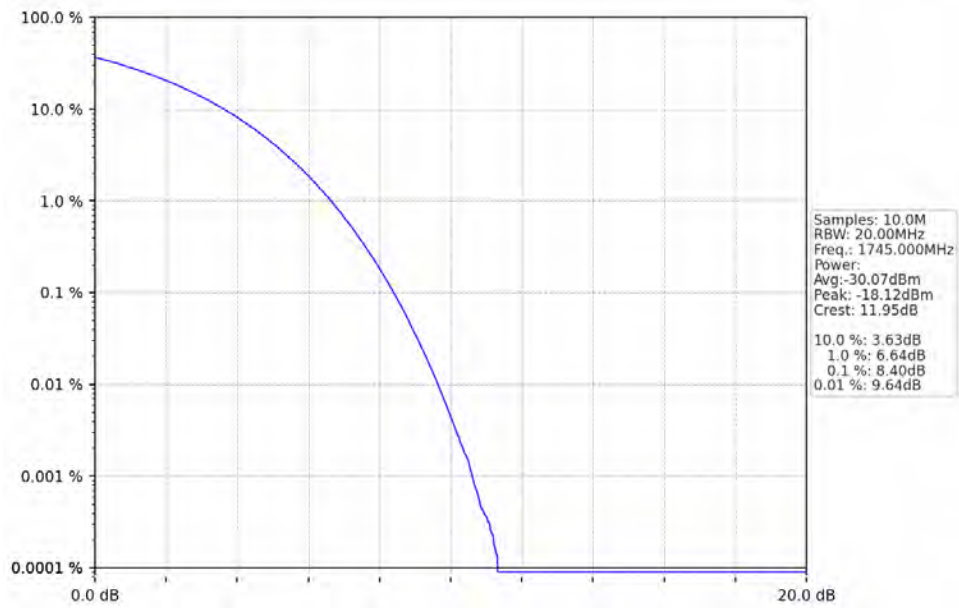
2024-11-02 14:37:22

Band4 20MHz 16QAM MCH 1732.5MHz RB 27 0 NTNV



2024-11-02 14:37:59

Band4 20MHz 16QAM HCH 1745MHz RB 27 73 NTNV



2024-11-02 14:38:35

6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

6.1.2 B4_3MHz

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
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
			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
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass

6.1.3 B4_5MHz

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
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
			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

6.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
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
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass

6.1.5 B4_15MHz

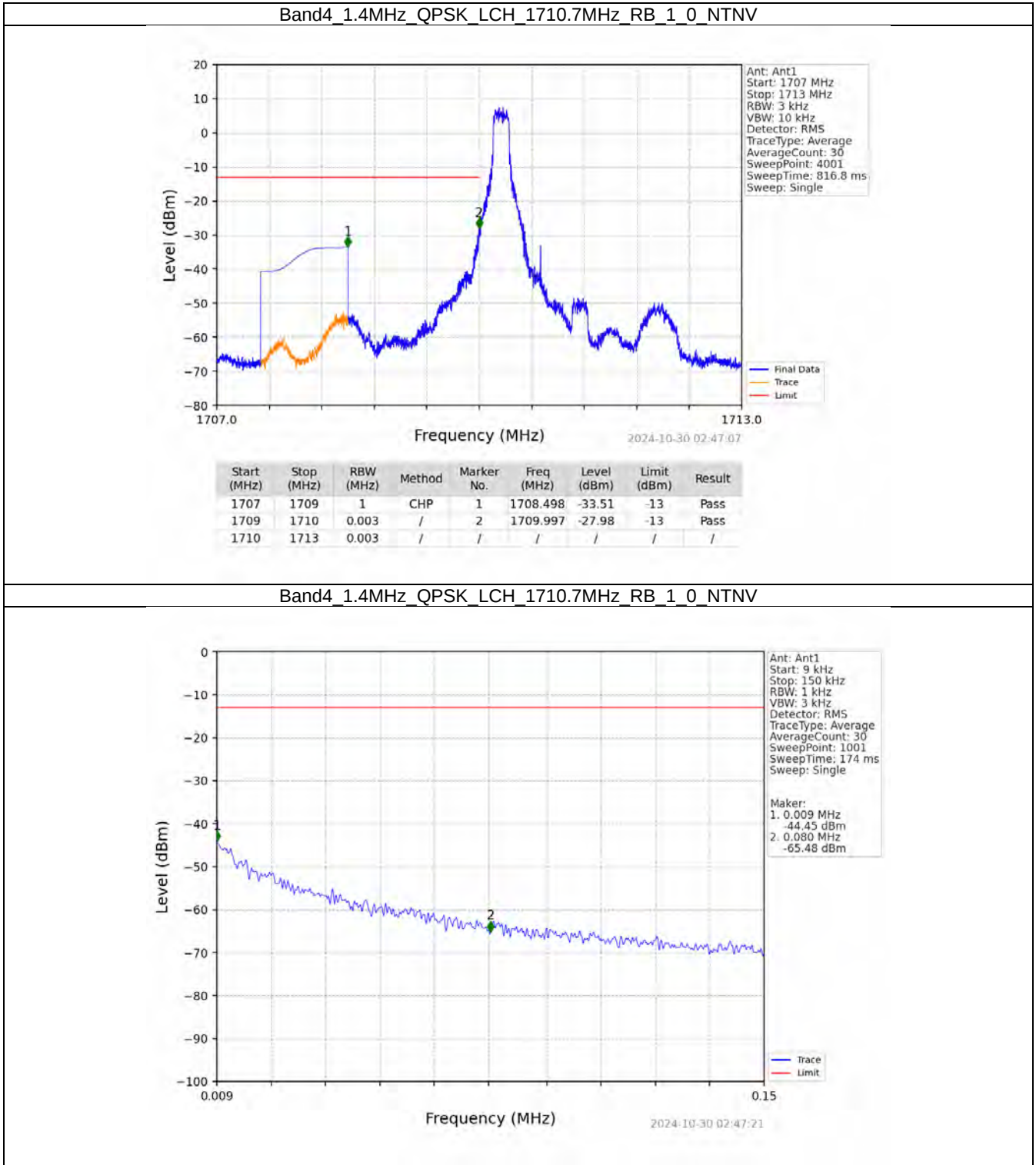
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

6.1.6 B4_20MHz

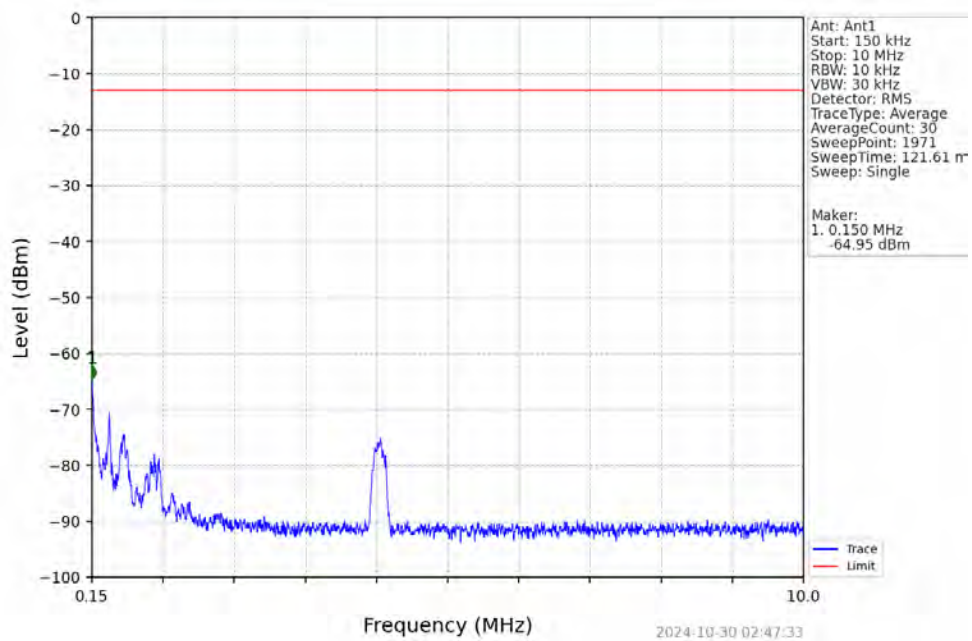
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

6.2 Test Graph

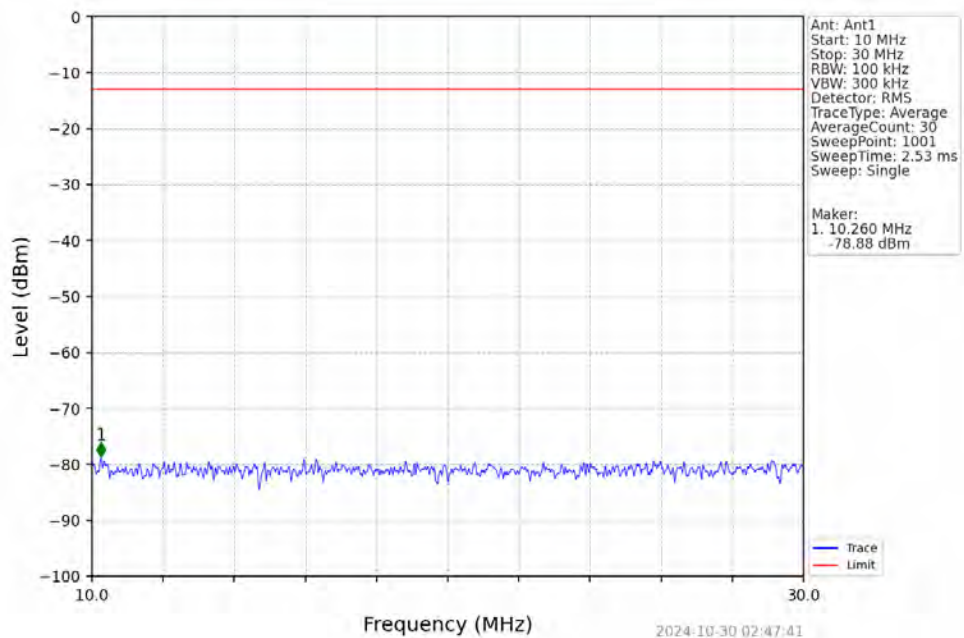
6.2.1 B4_1.4MHz



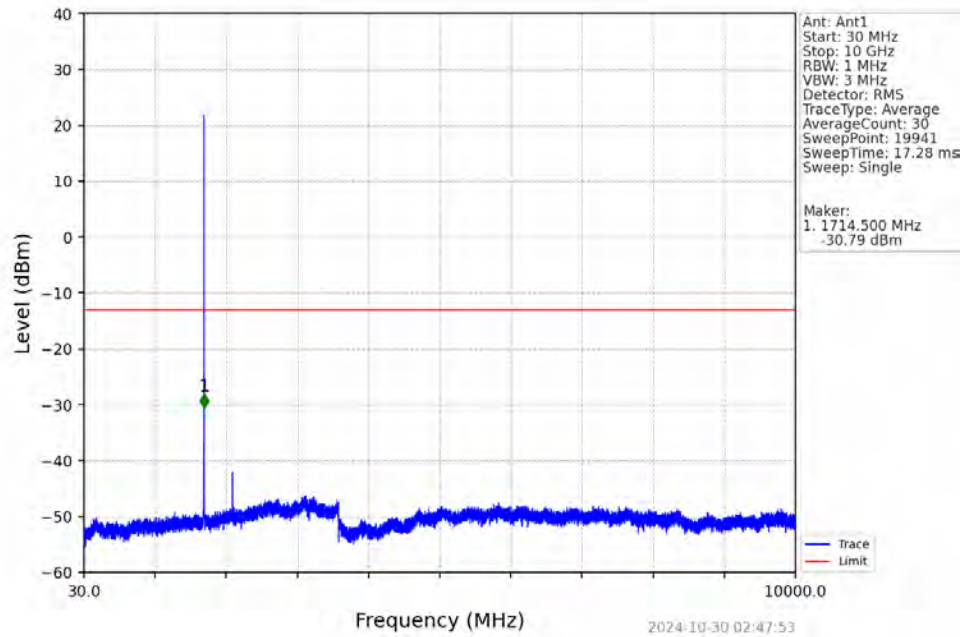
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



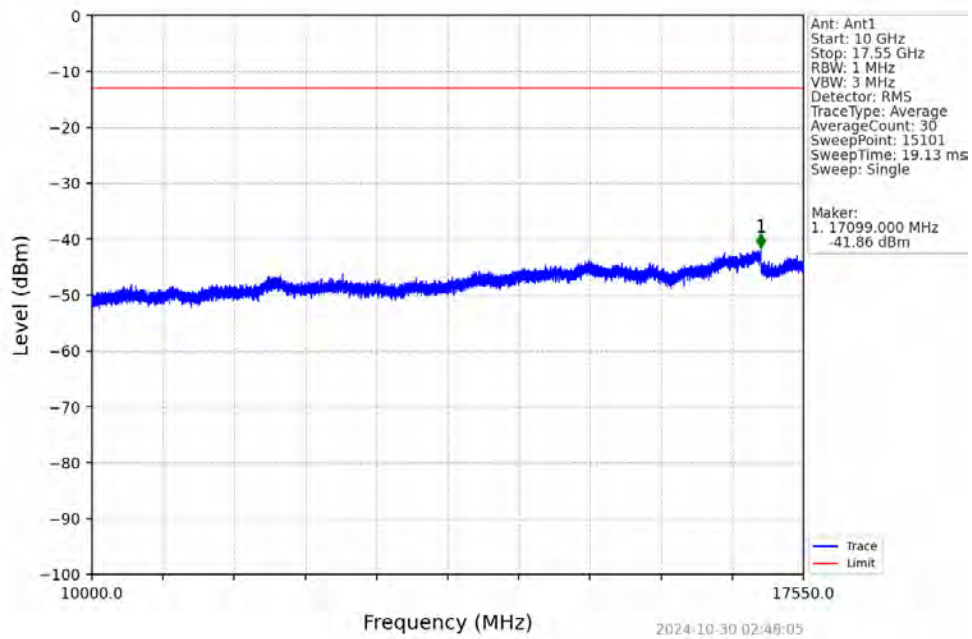
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



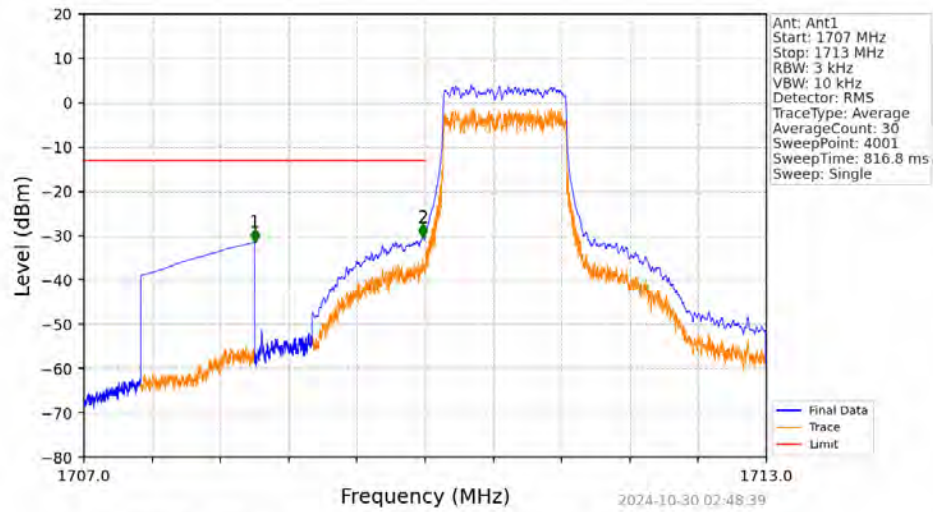
Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTN



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTN

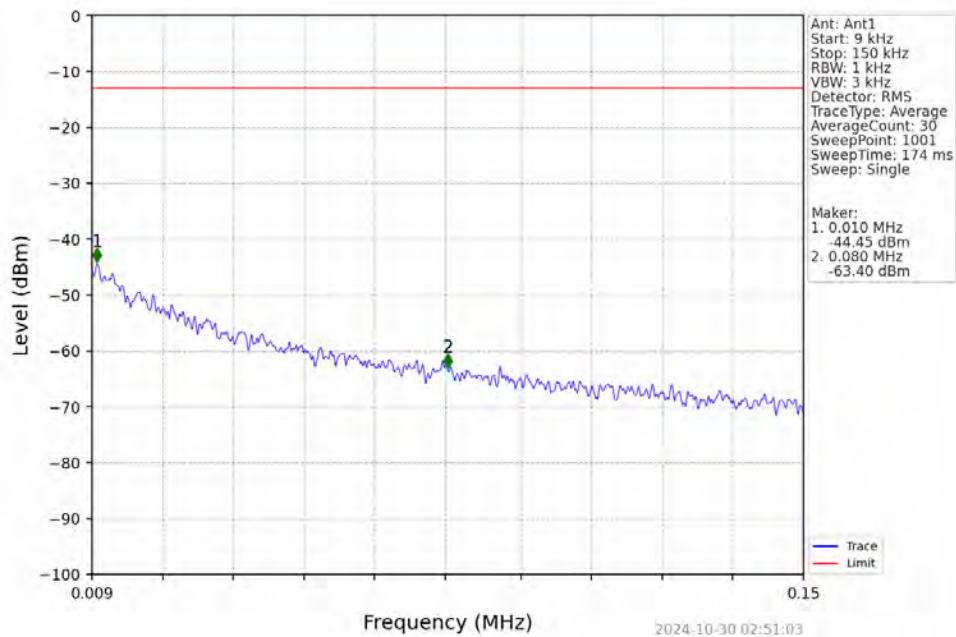


Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTNV

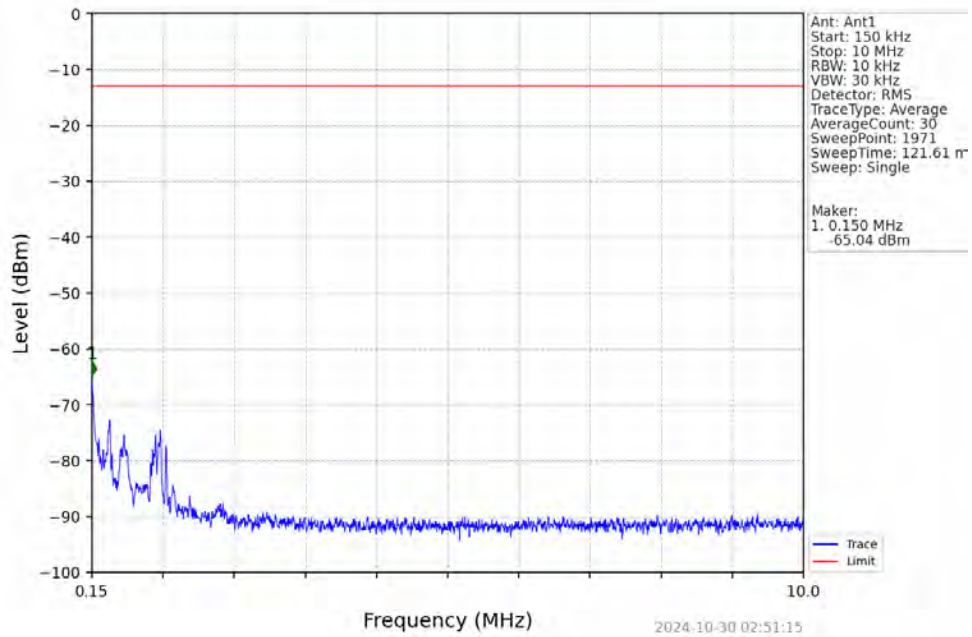


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-31.48	-13	Pass
1709	1710	0.014	CHP	2	1709.979	-30.35	-13	Pass
1710	1713	0.014	CHP	/	/	/	/	/

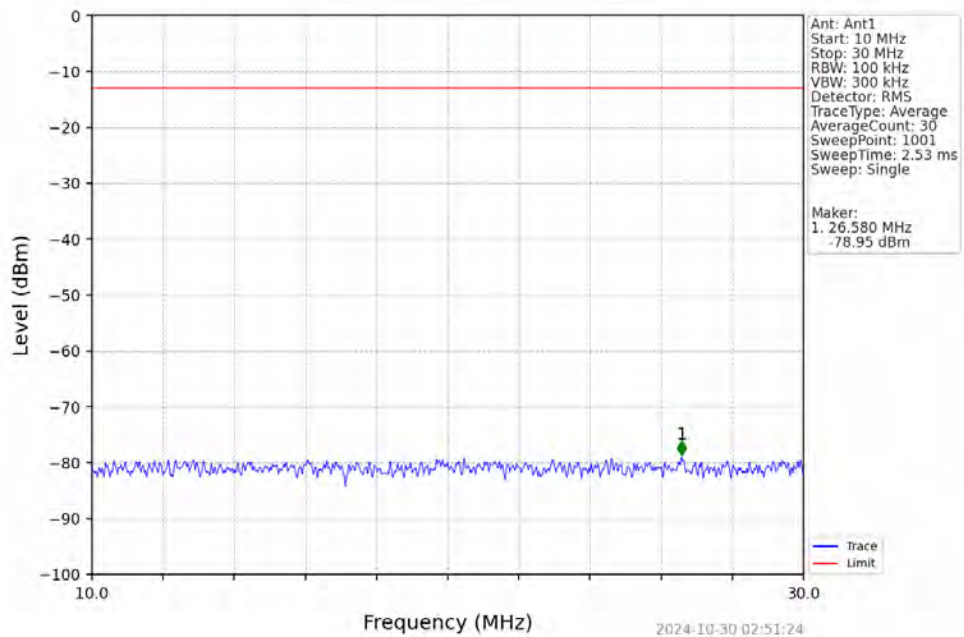
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



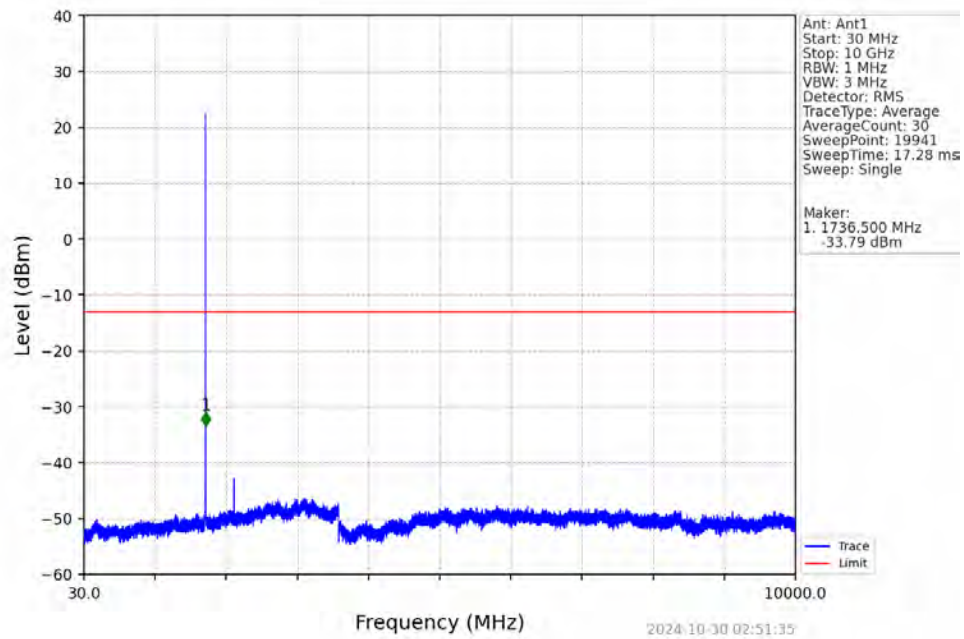
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



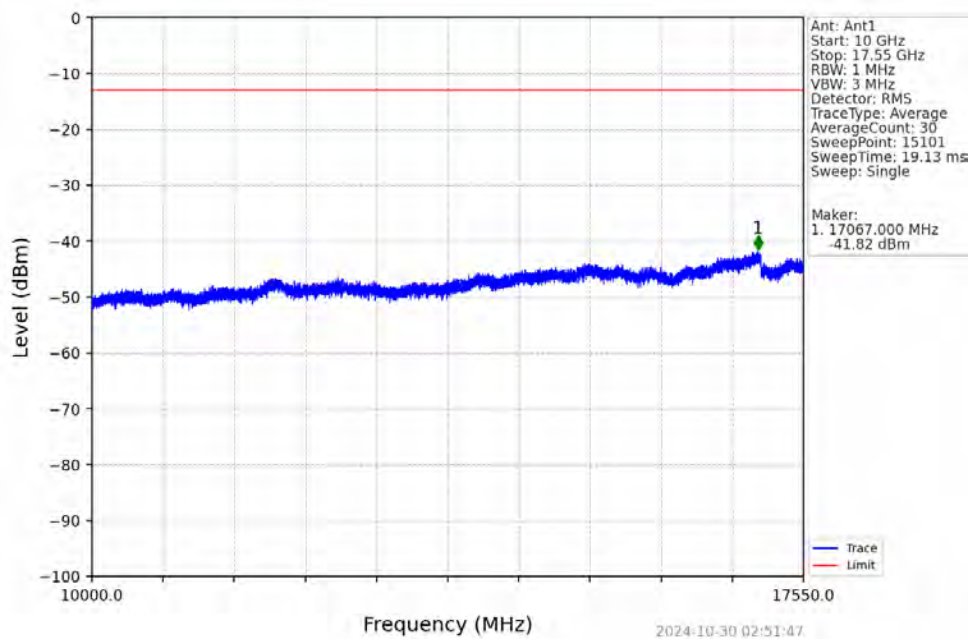
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



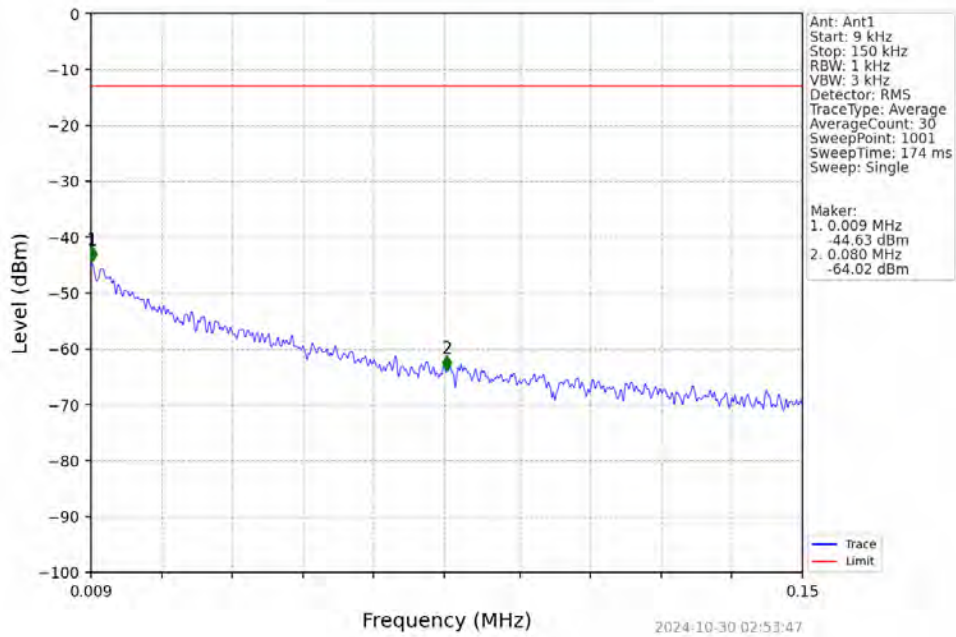
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



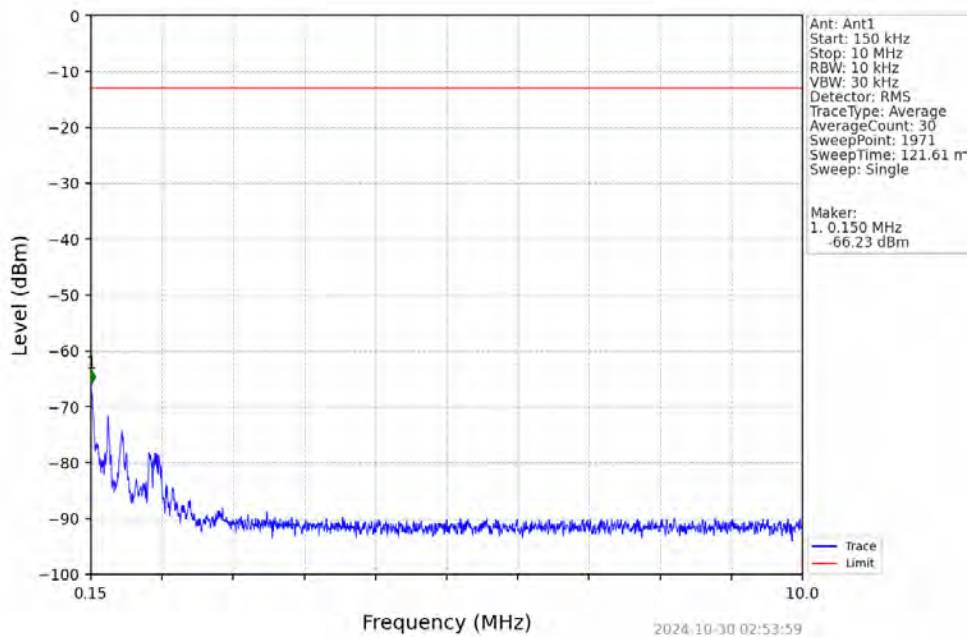
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



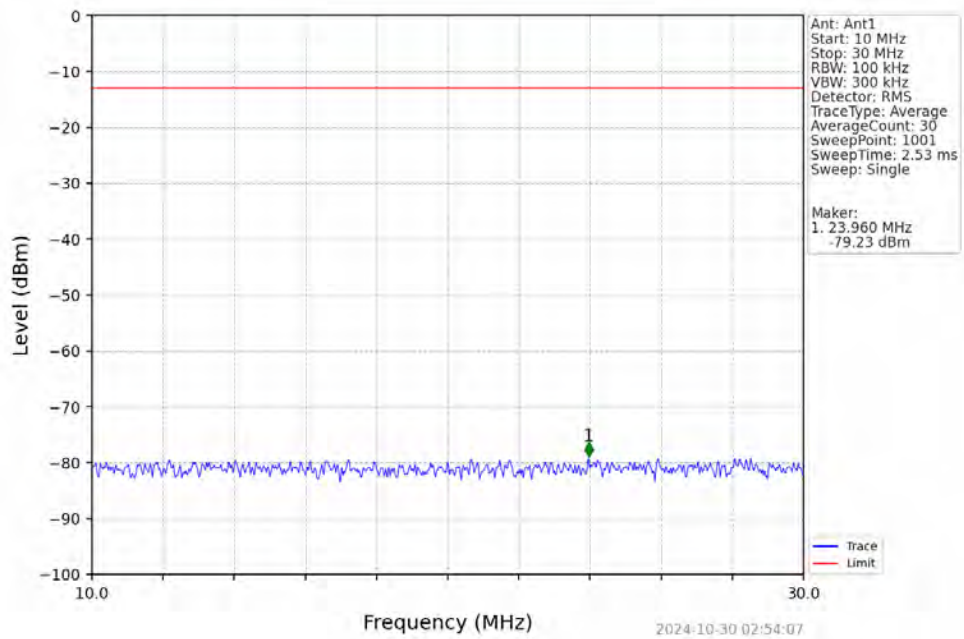
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



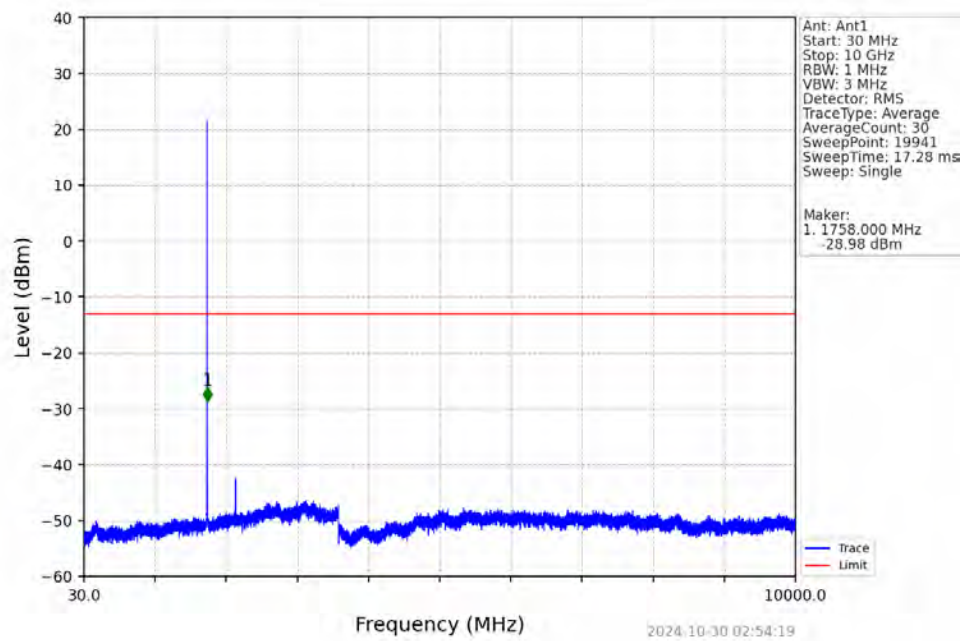
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



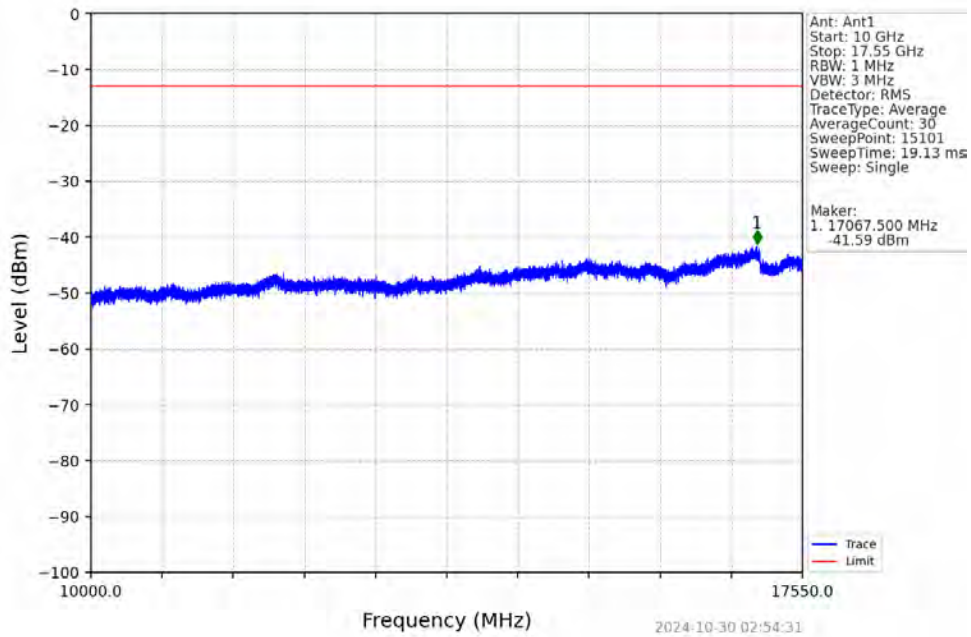
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTV



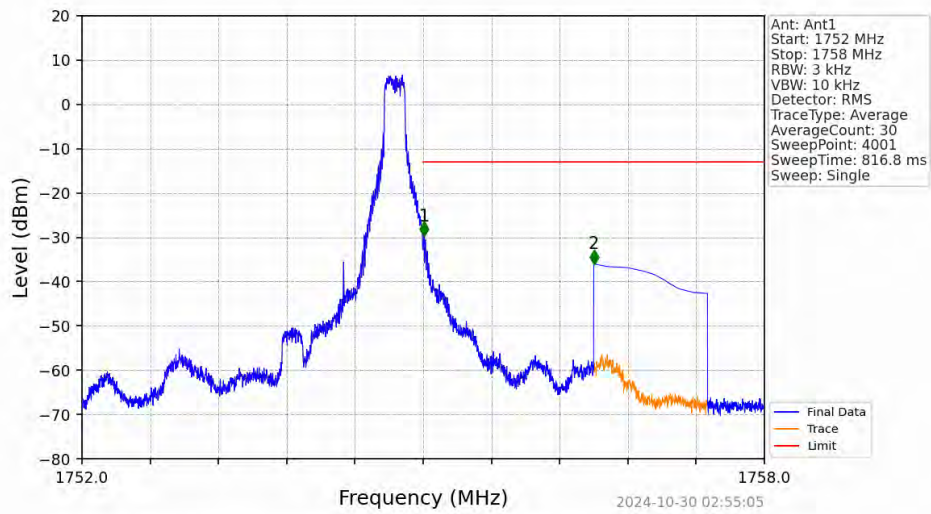
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTV



Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTV

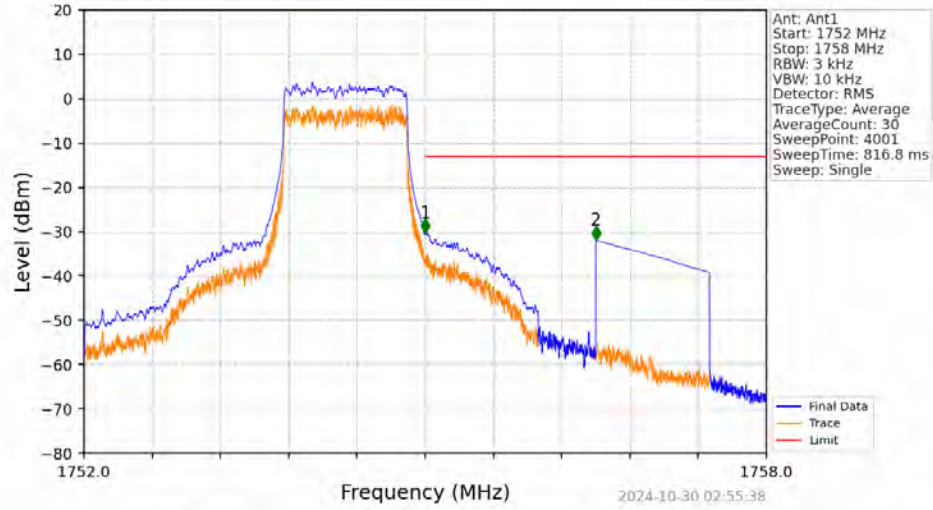


Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTV



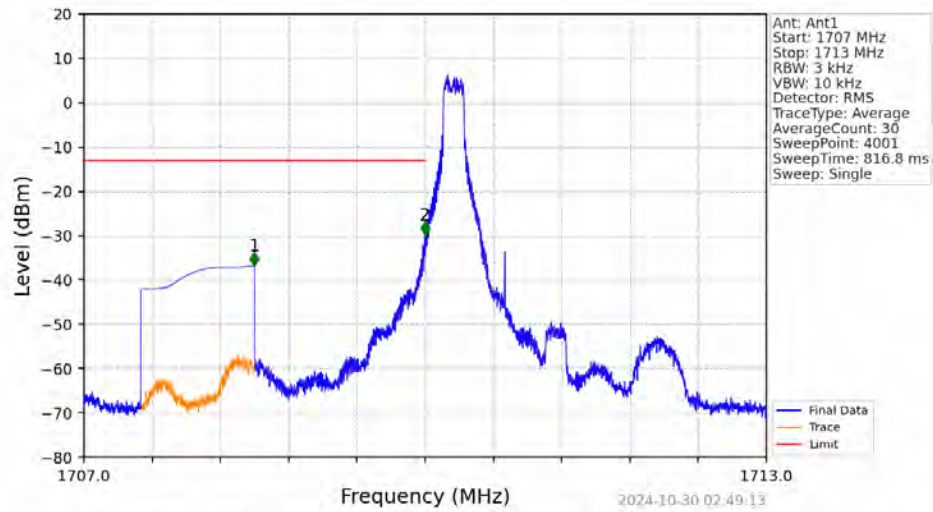
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.007	-29.75	-13	Pass
1756	1758	1	CHP	2	1756.500	-35.96	-13	Pass

Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



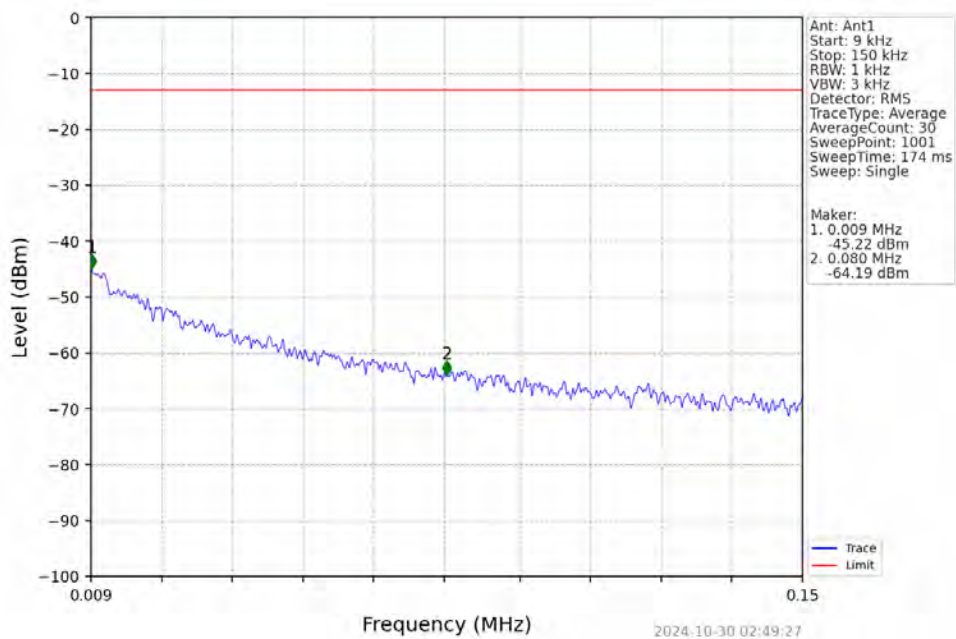
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.003	-30.26	-13	Pass
1756	1758	1	CHP	2	1756.500	-31.90	-13	Pass

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

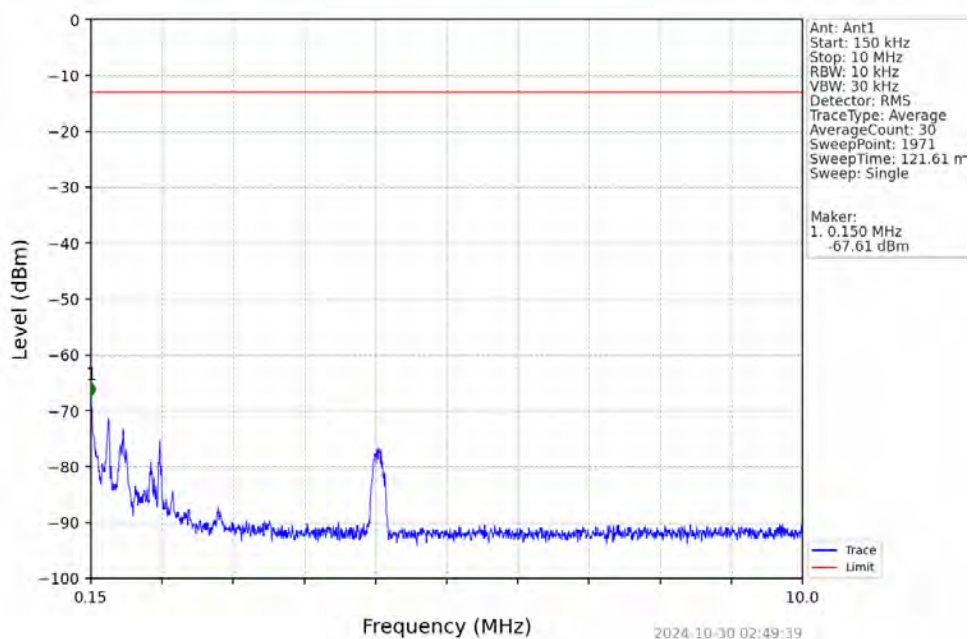


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.498	-36.84	-13	Pass
1709	1710	0.003	/	2	1709.997	-29.78	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

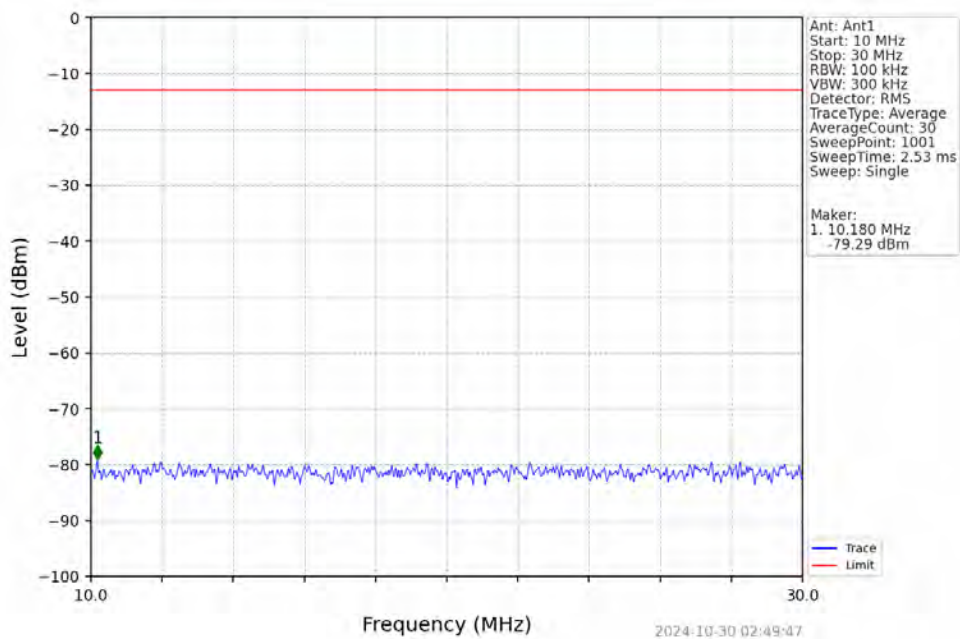
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



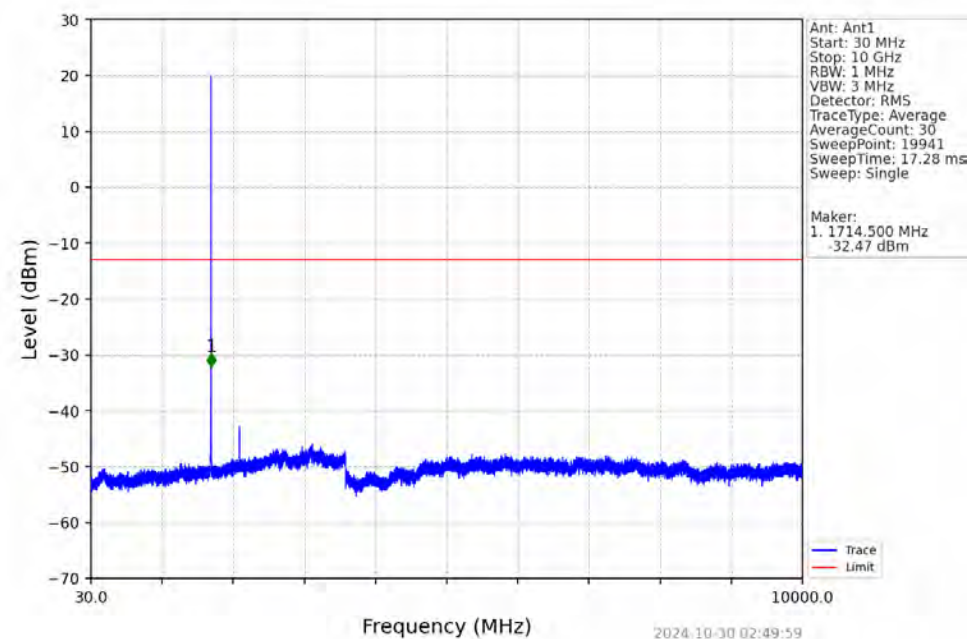
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



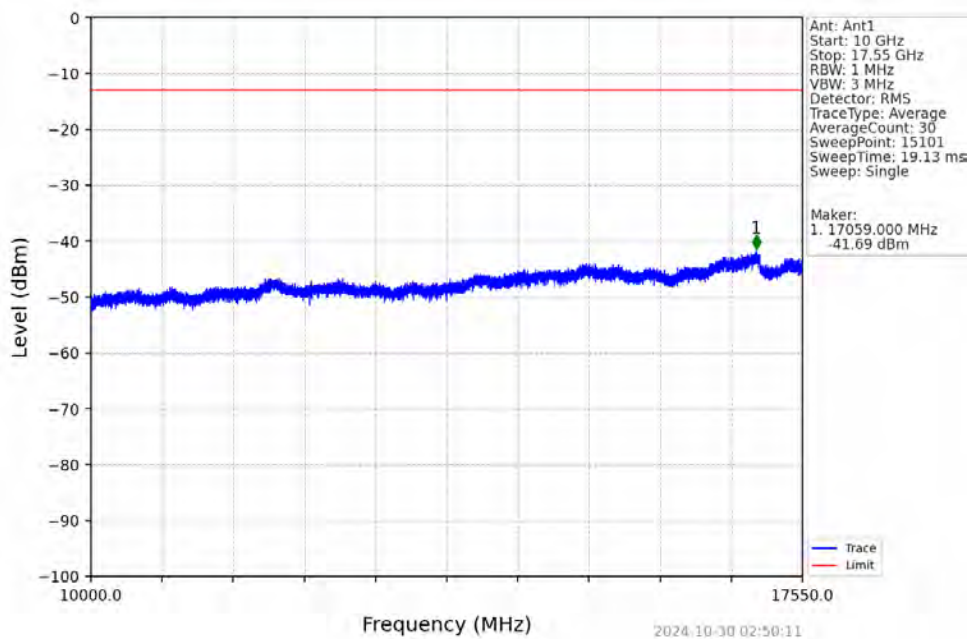
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



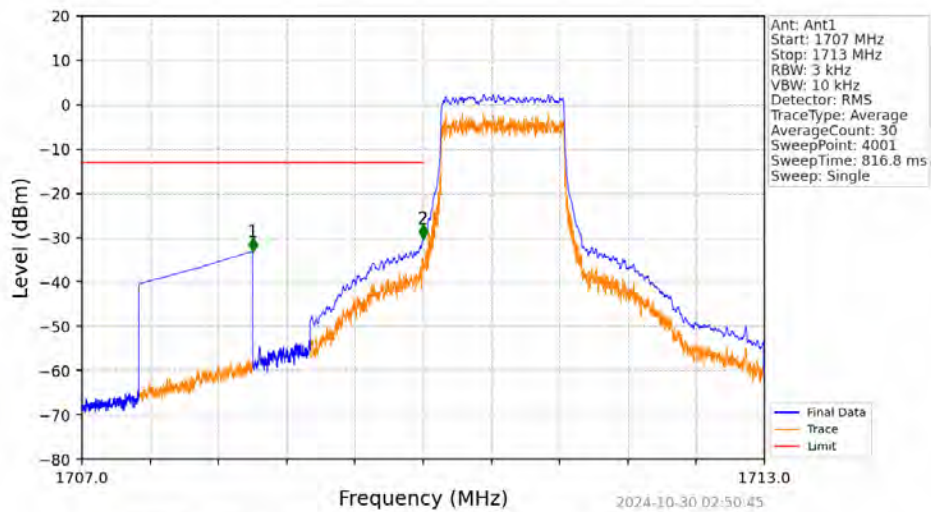
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 1 0 NTNV



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

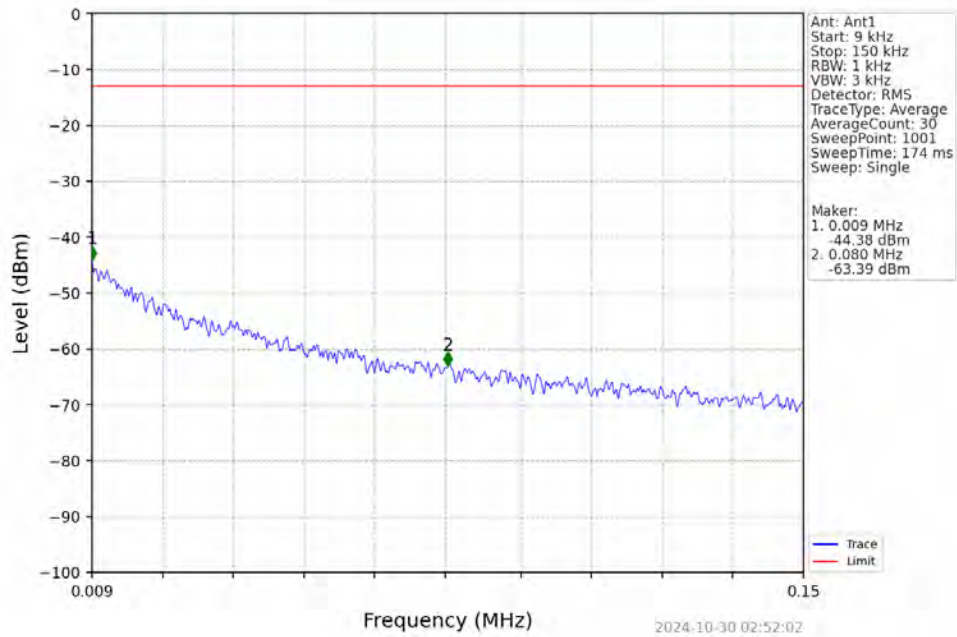


Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV

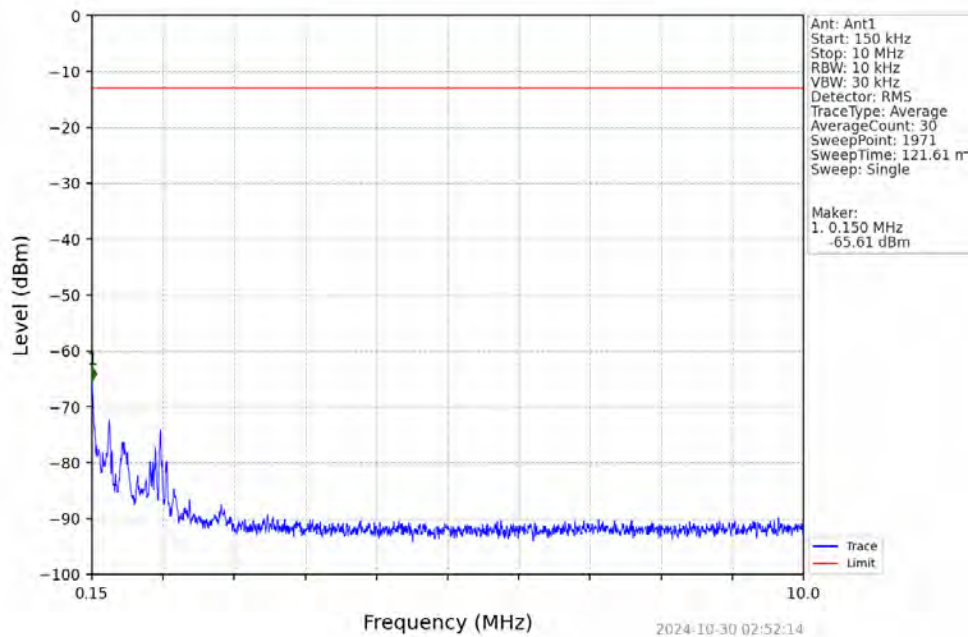


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-33.16	-13	Pass
1709	1710	0.013	CHP	2	1709.997	-30.22	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

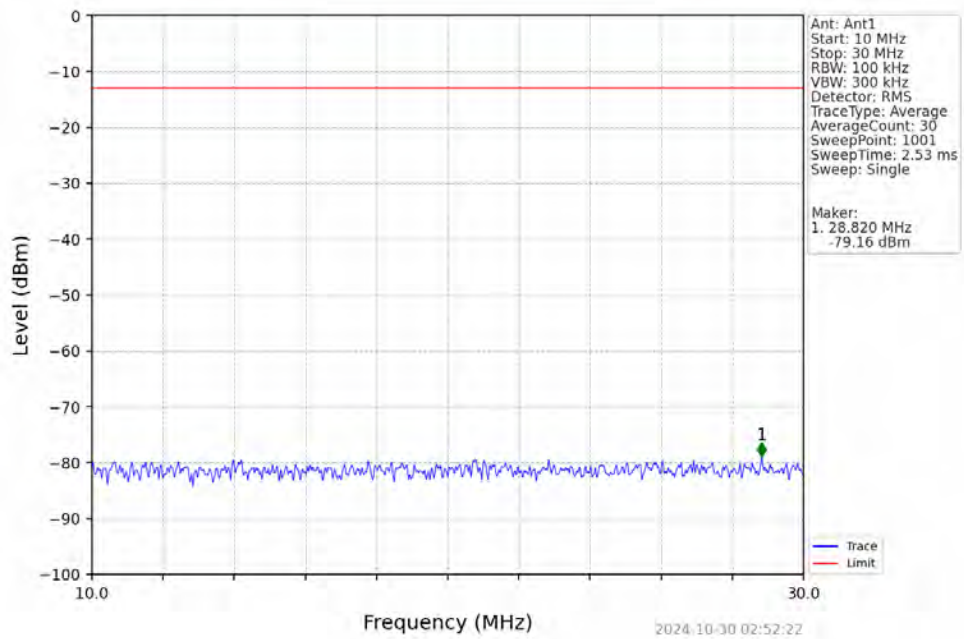
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



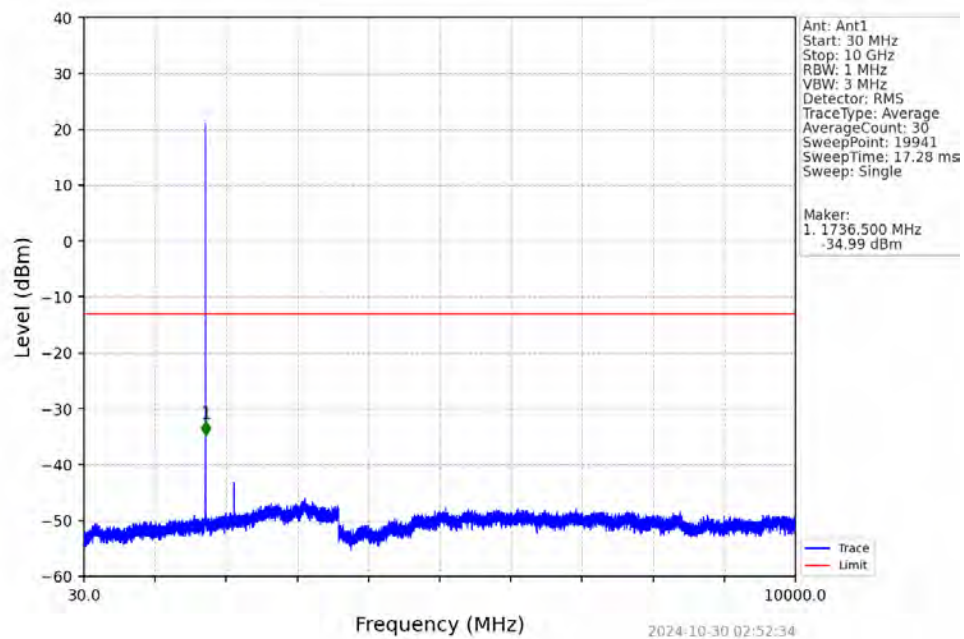
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



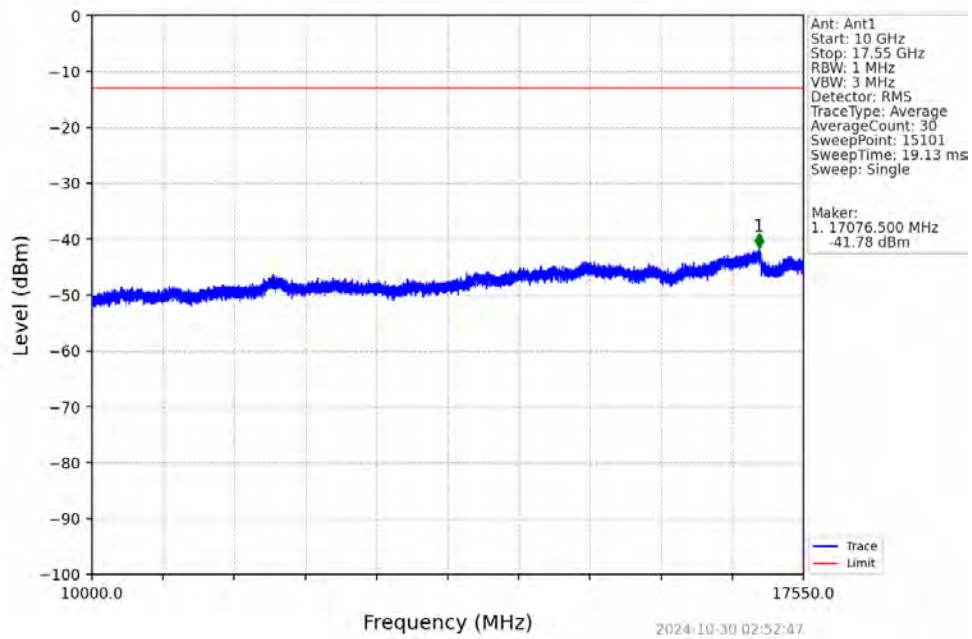
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



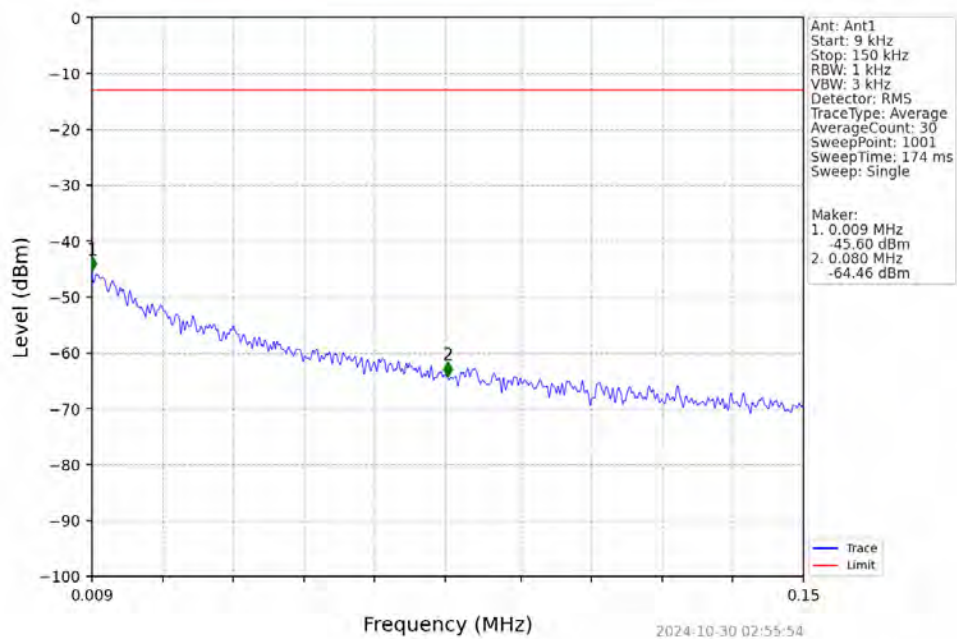
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



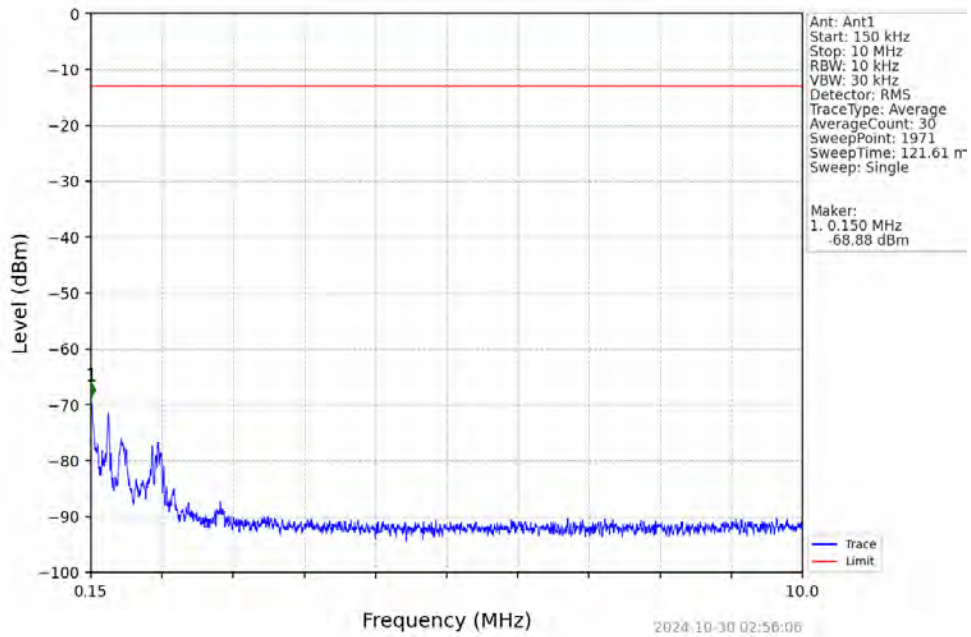
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



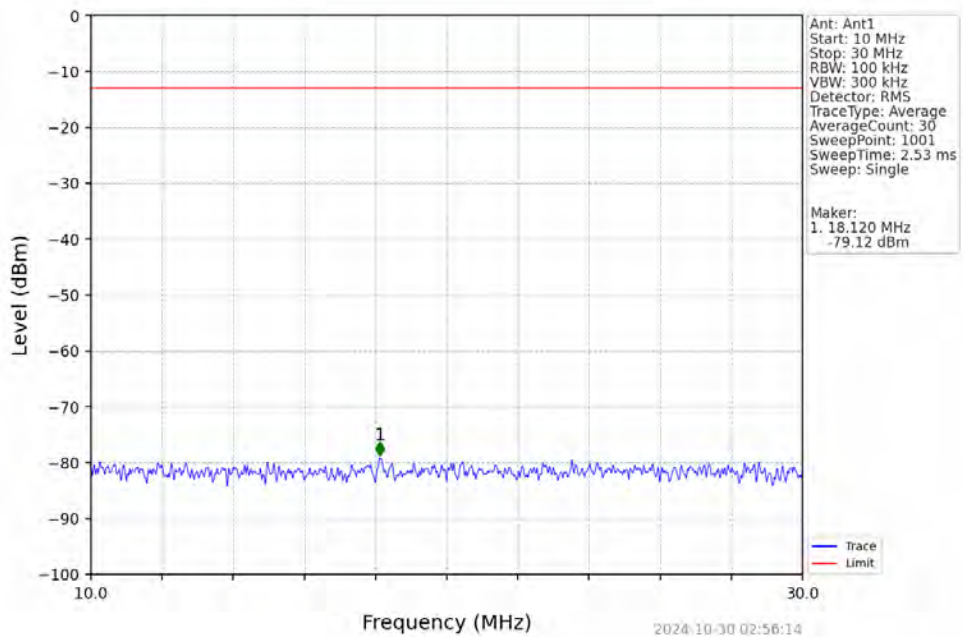
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV



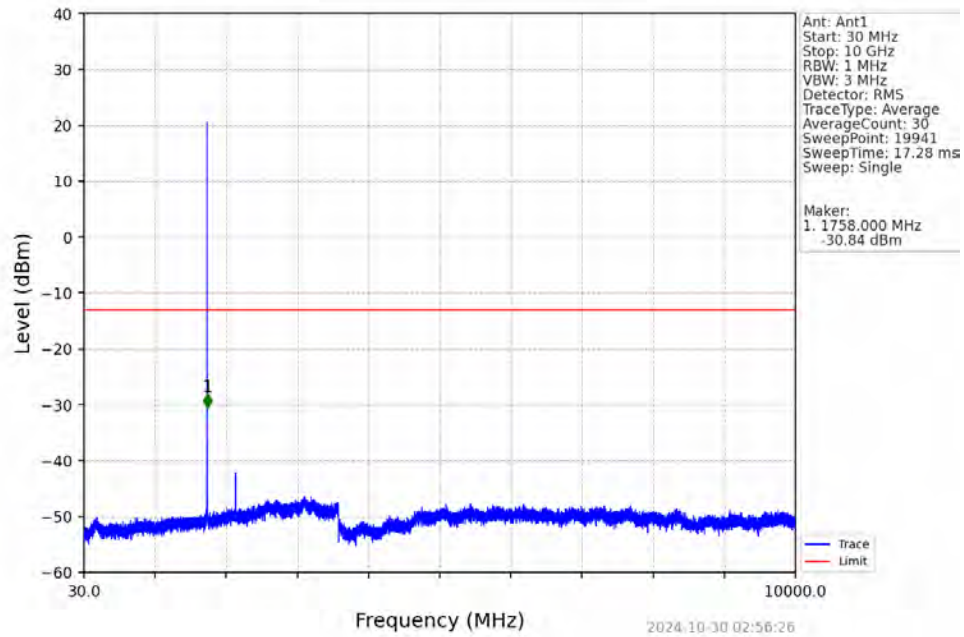
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV



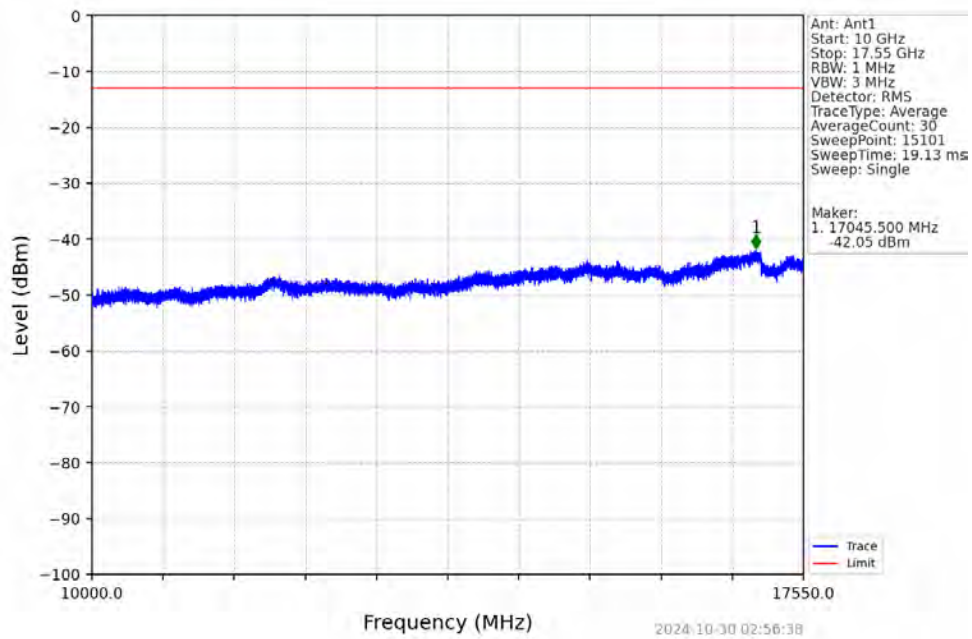
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV



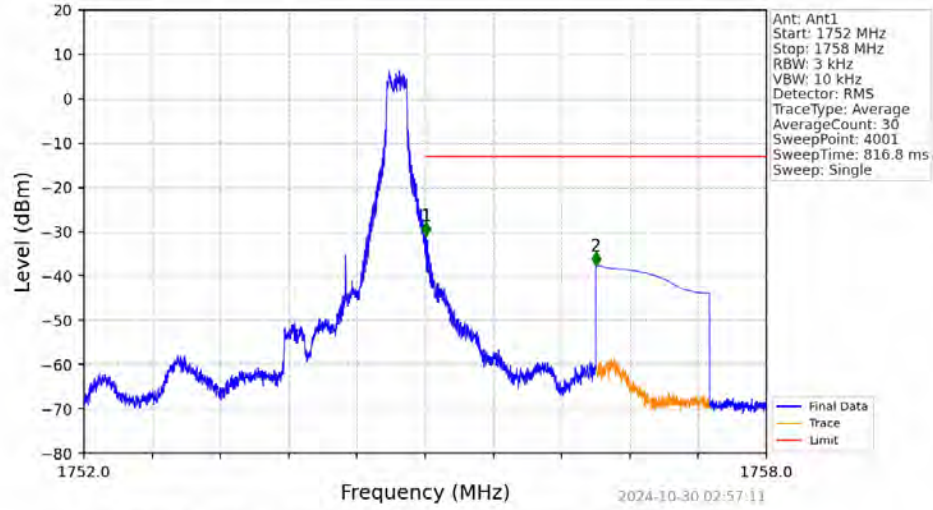
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV



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

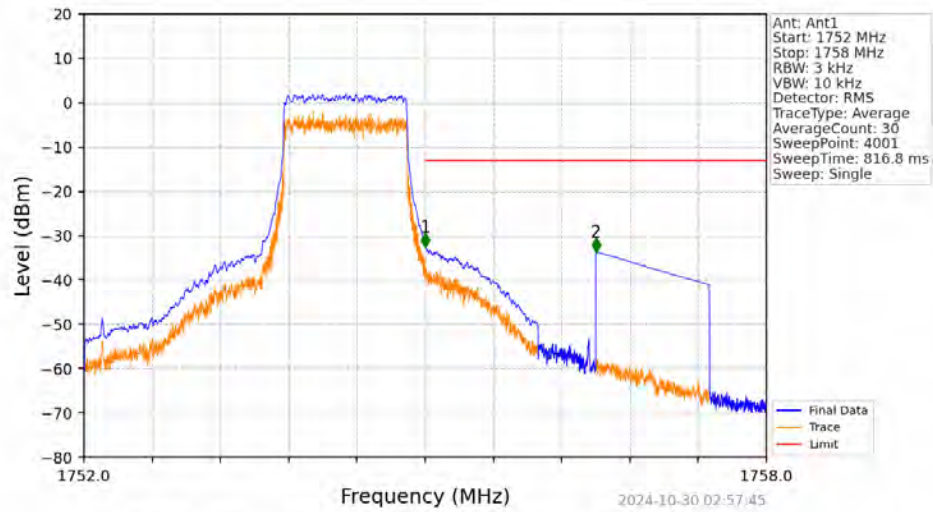


Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 5 NTNV



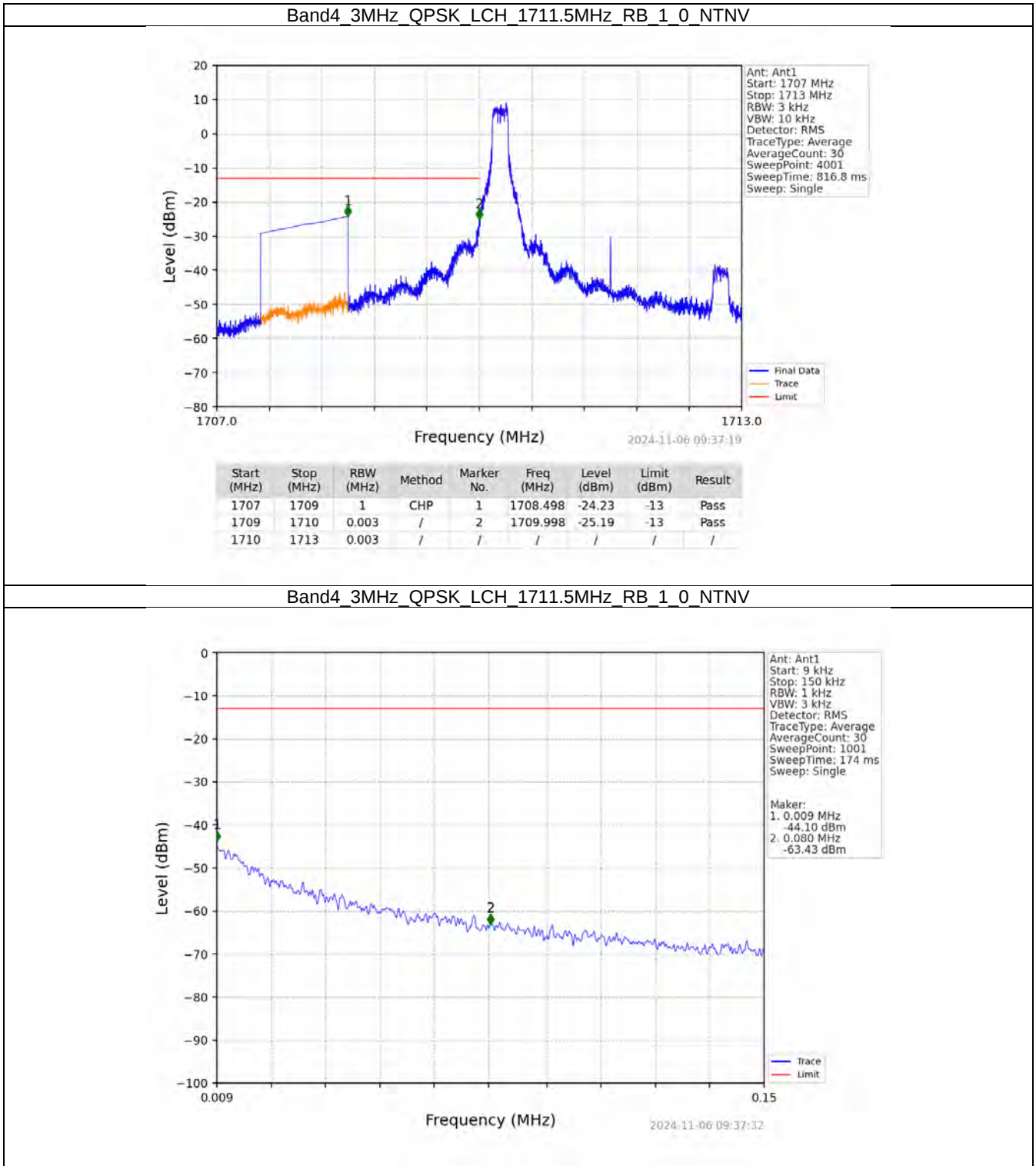
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-30.92	-13	Pass
1756	1758	1	CHP	2	1756.500	-37.62	-13	Pass

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

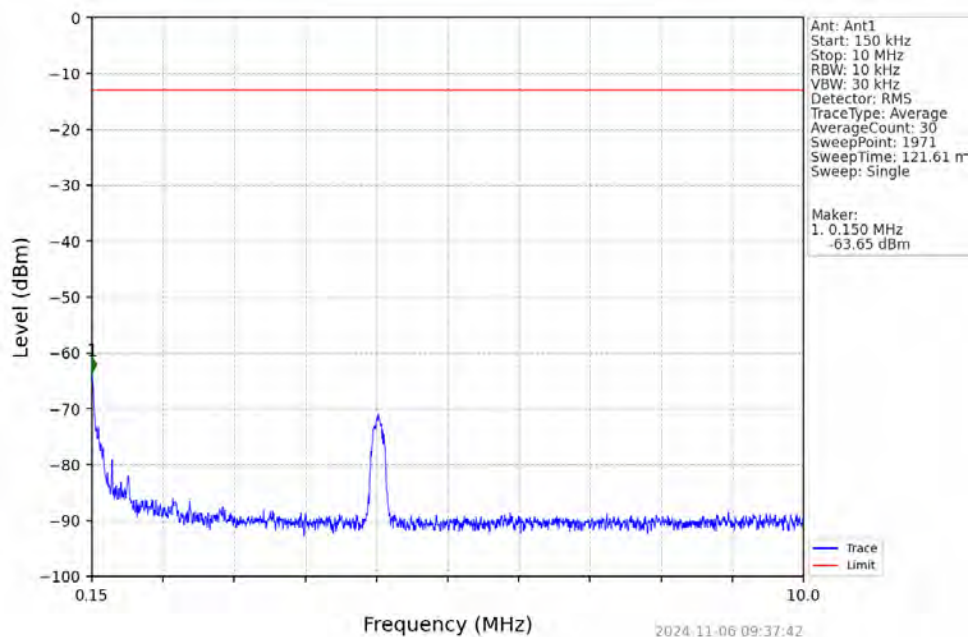


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.002	-32.58	-13	Pass
1756	1758	1	CHP	2	1756.500	-33.63	-13	Pass

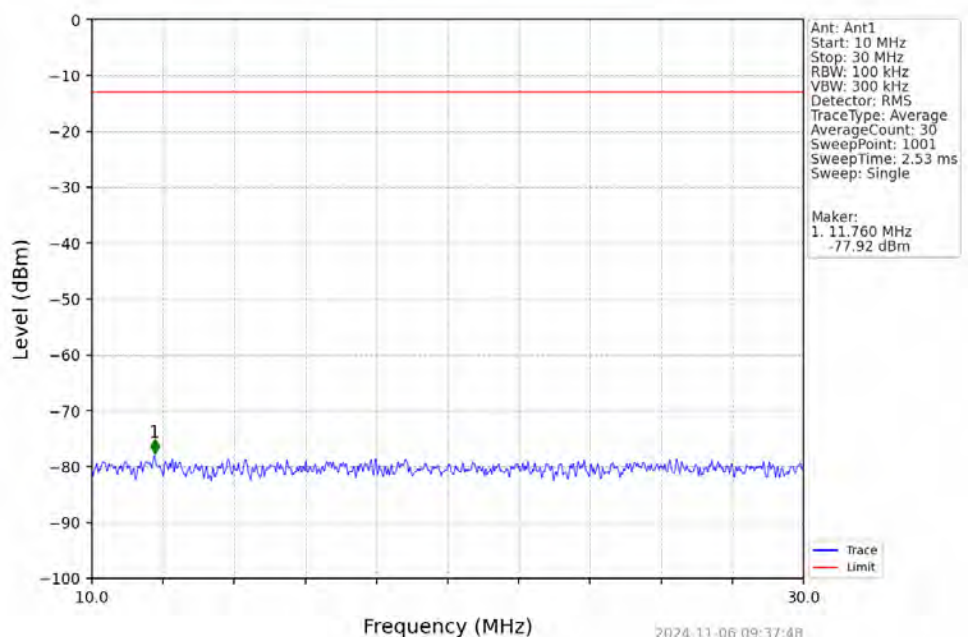
6.2.2 B4_3MHz



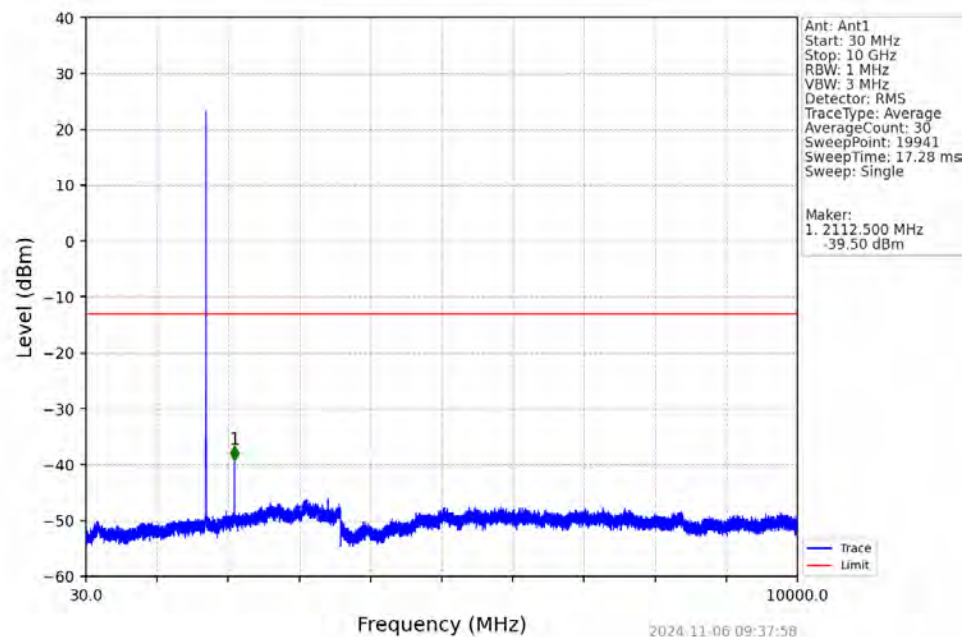
Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN



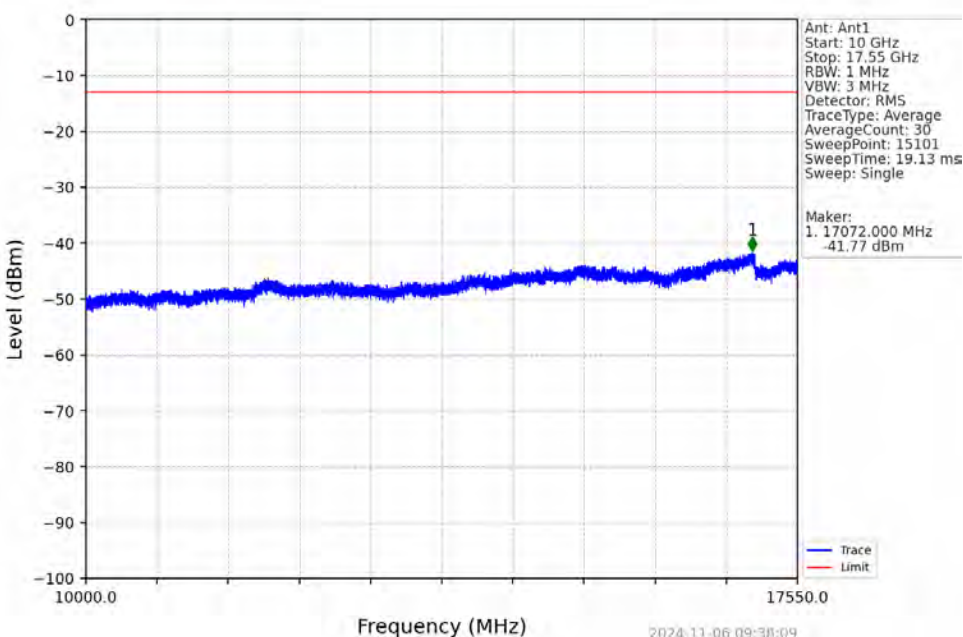
Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN



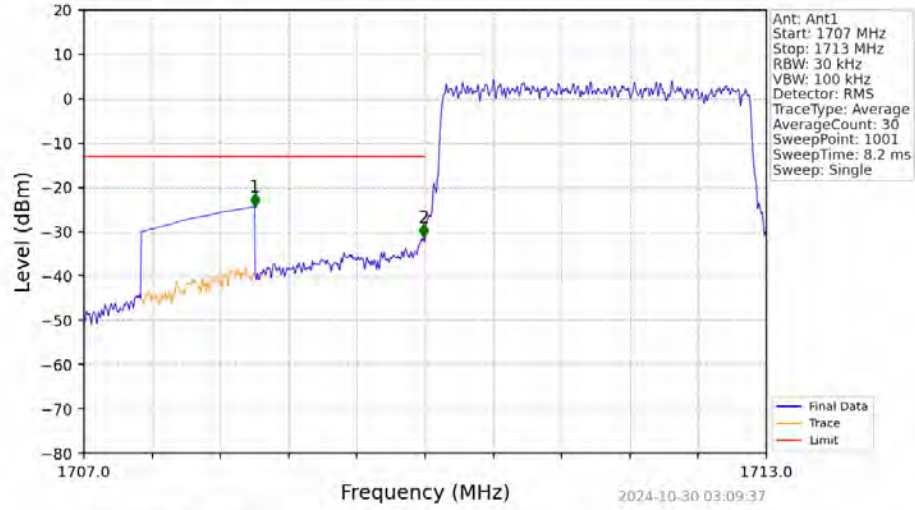
Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN



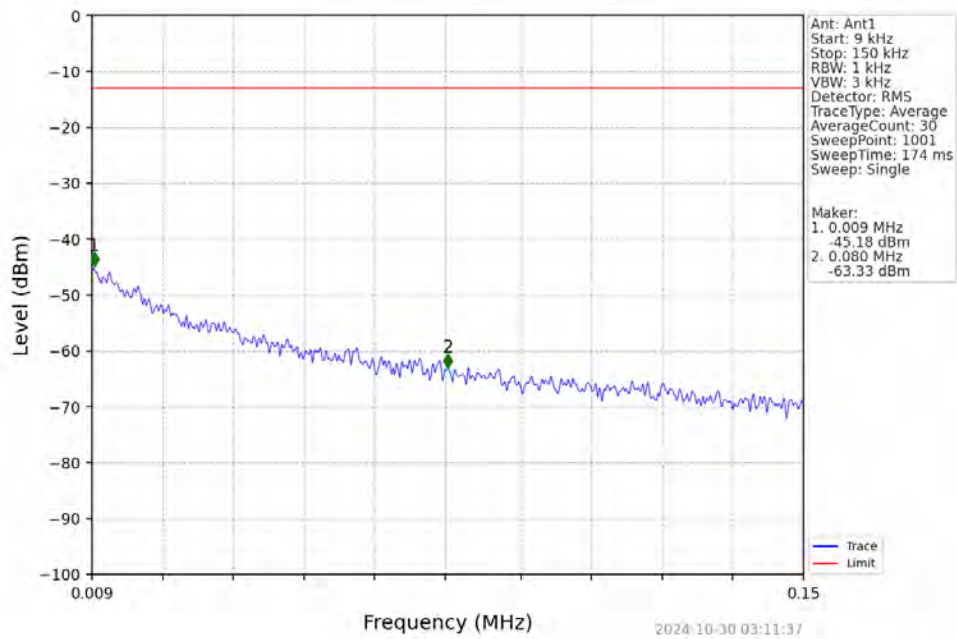
Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN



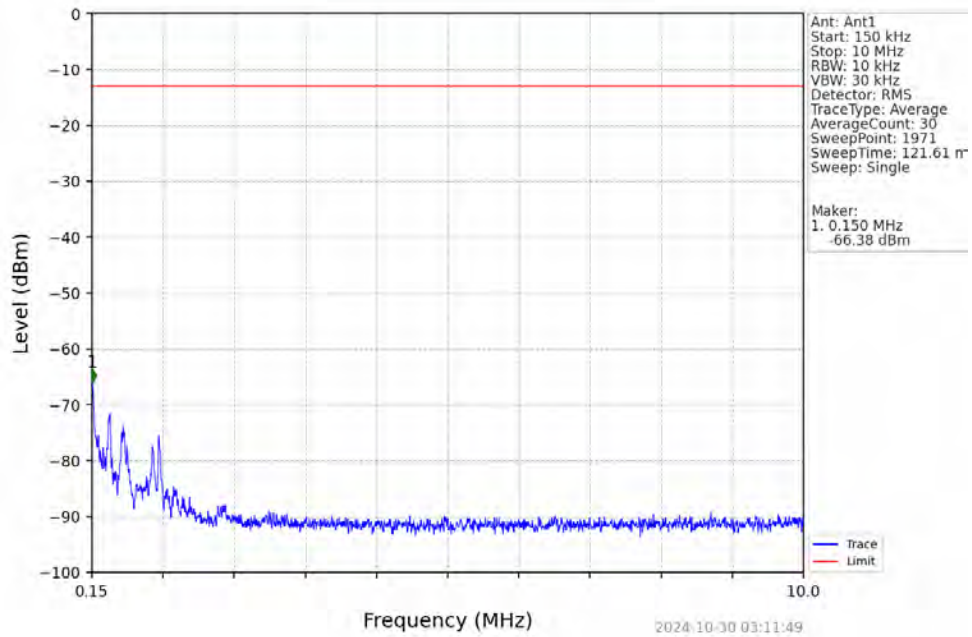
Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTNV



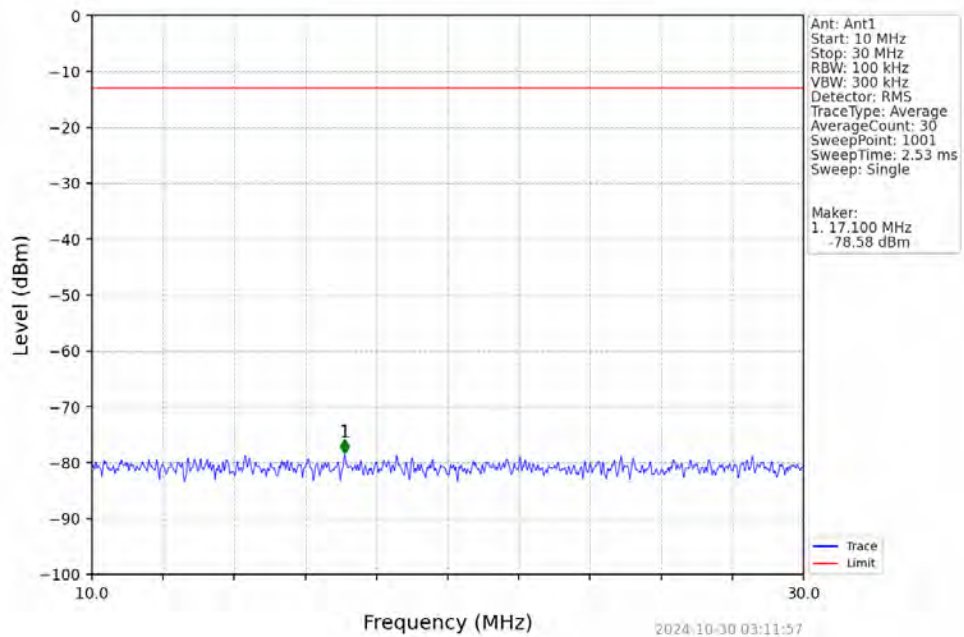
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



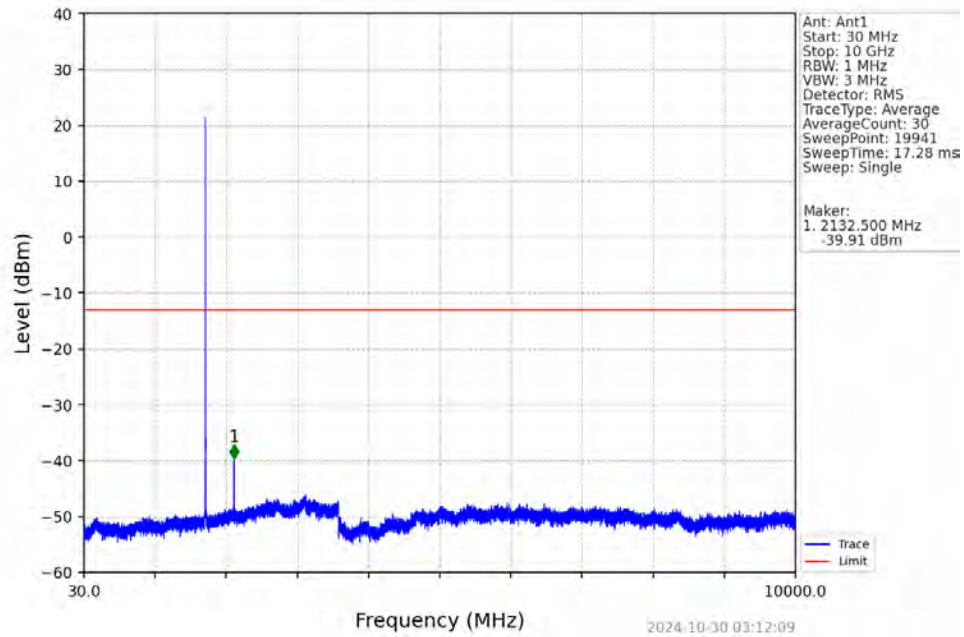
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



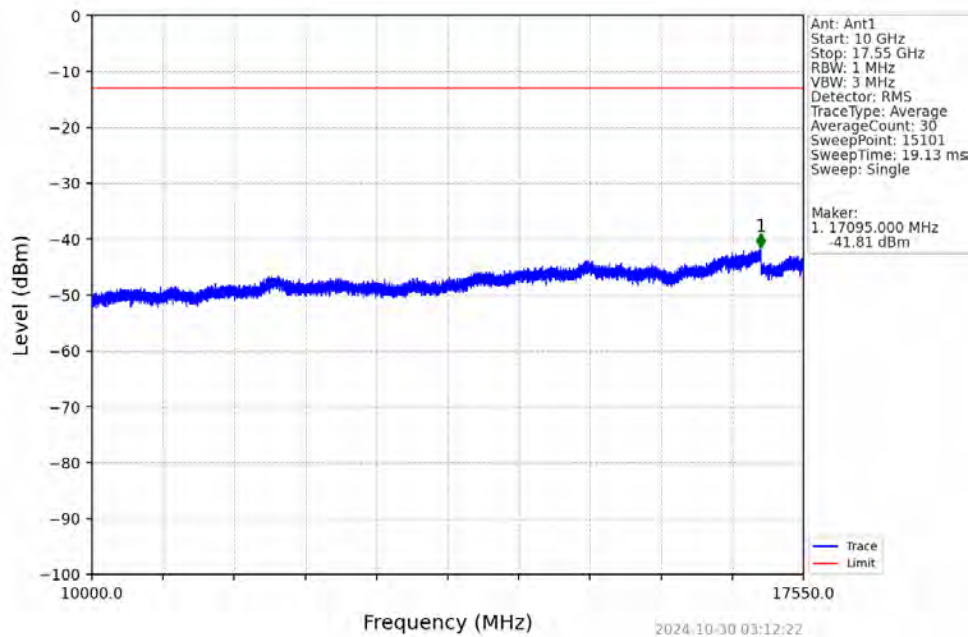
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



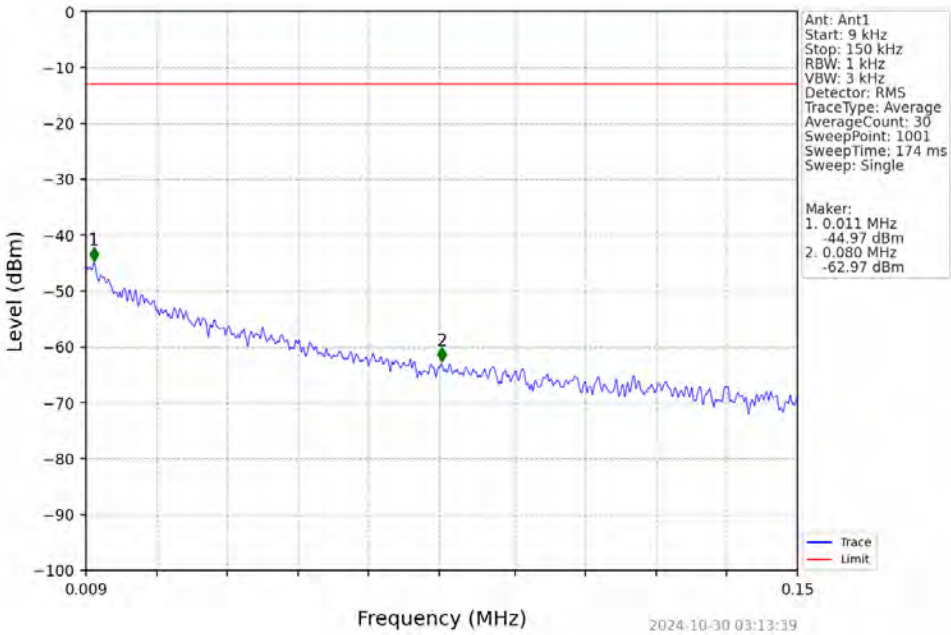
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



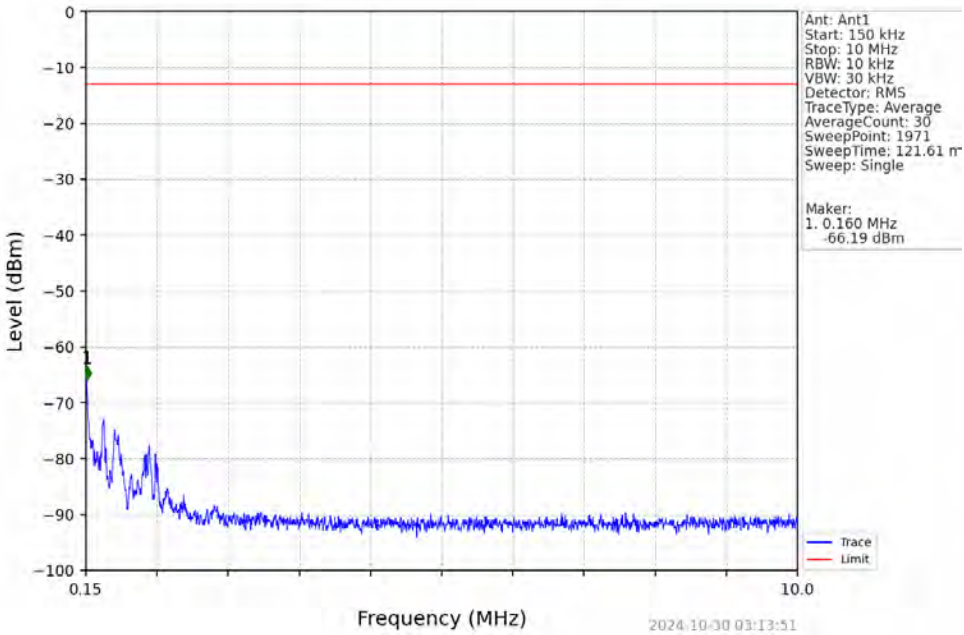
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



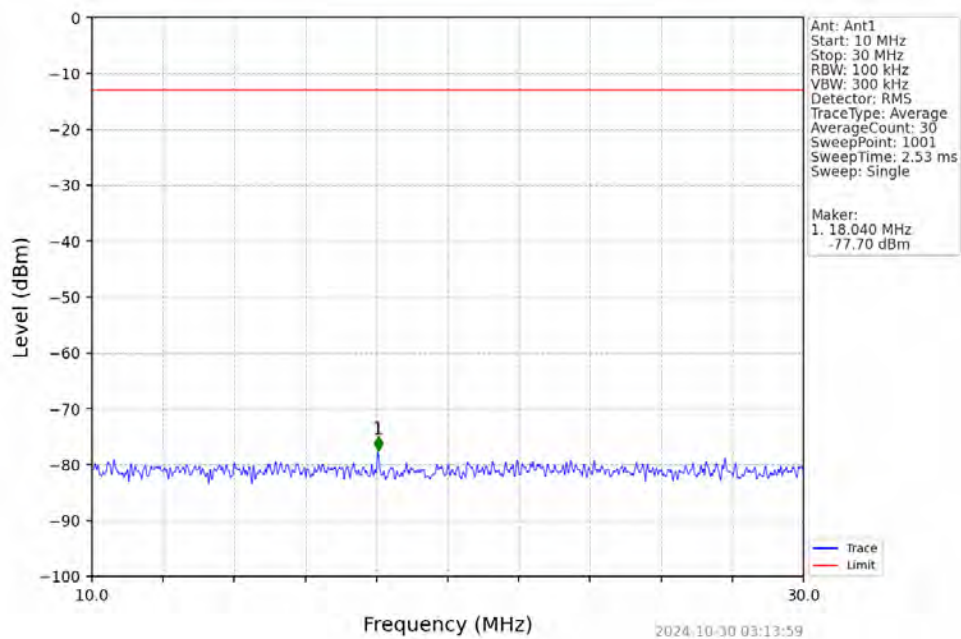
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV



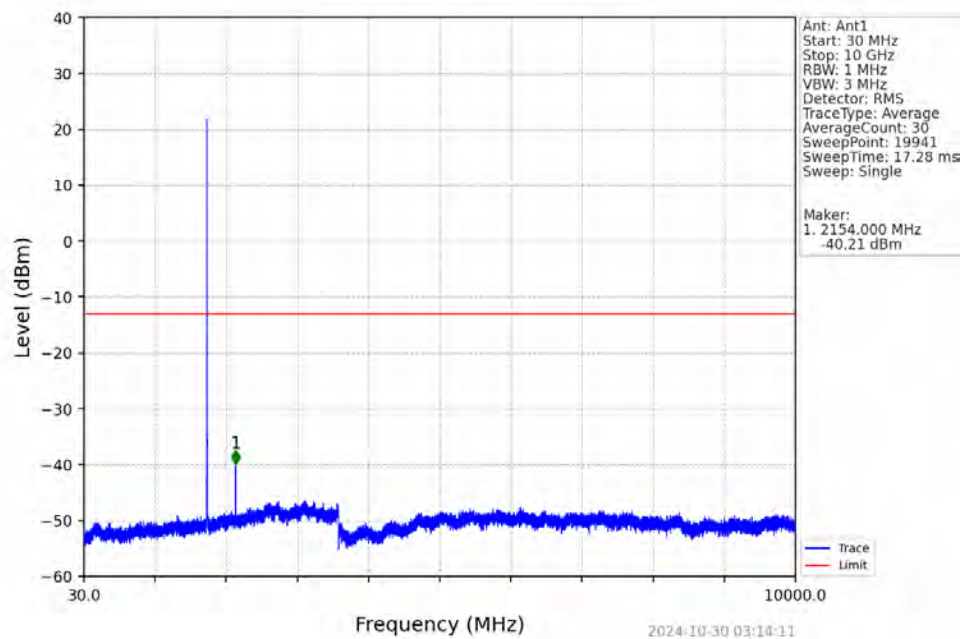
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV



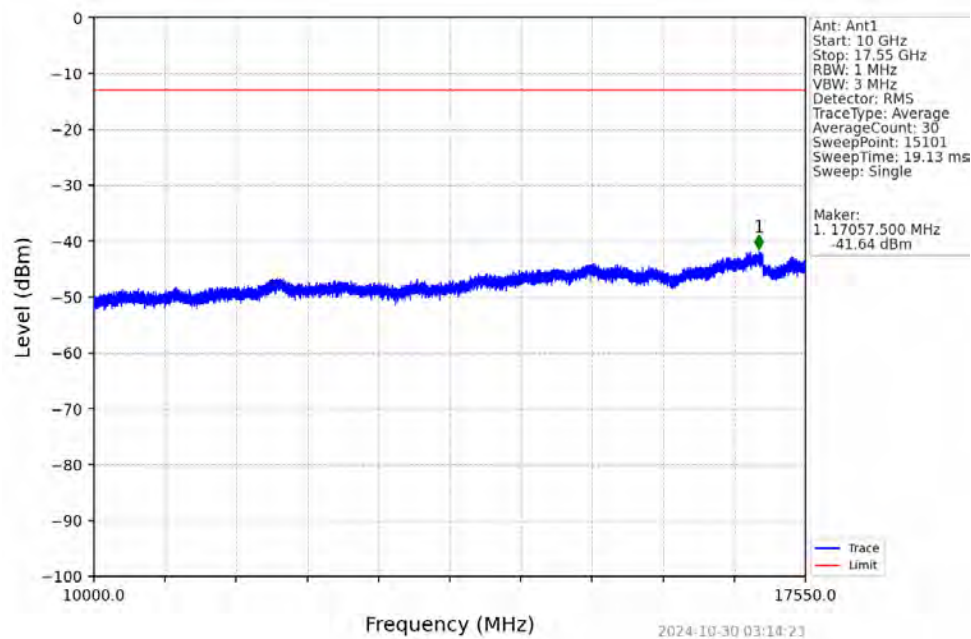
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



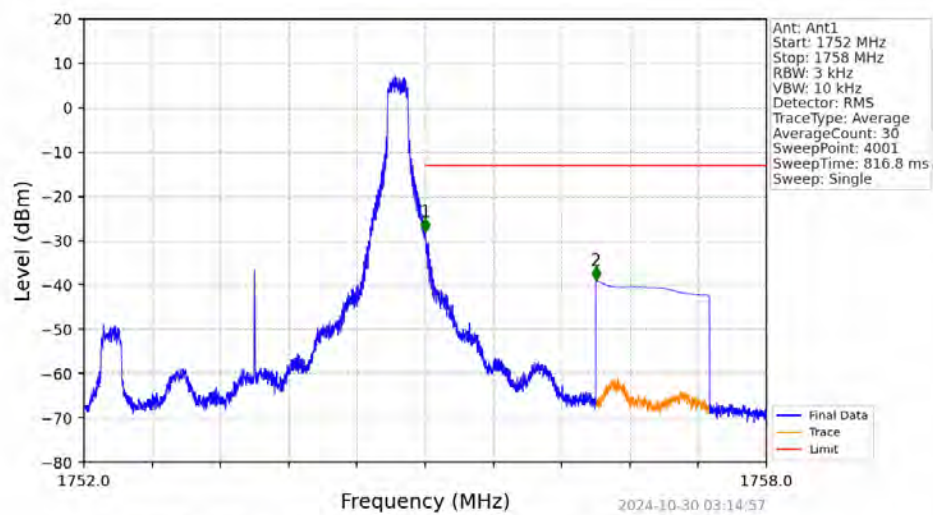
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN



Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTN

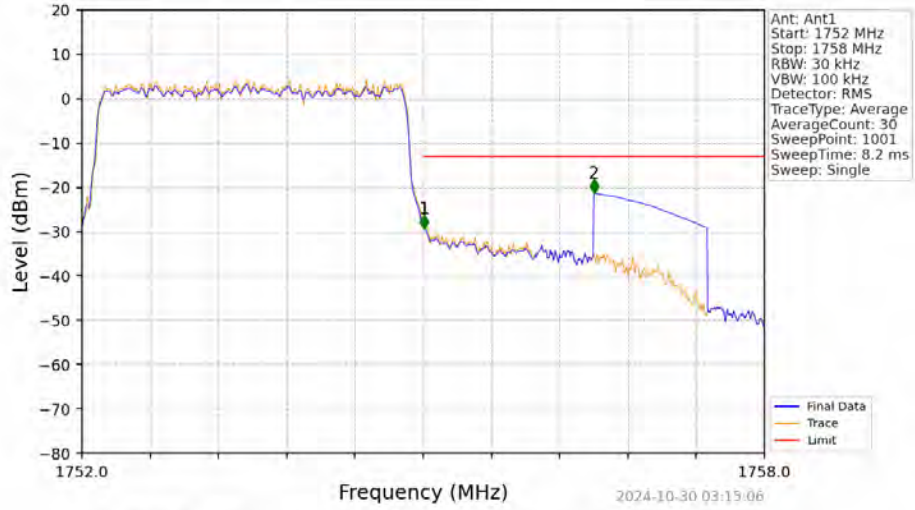


Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTN



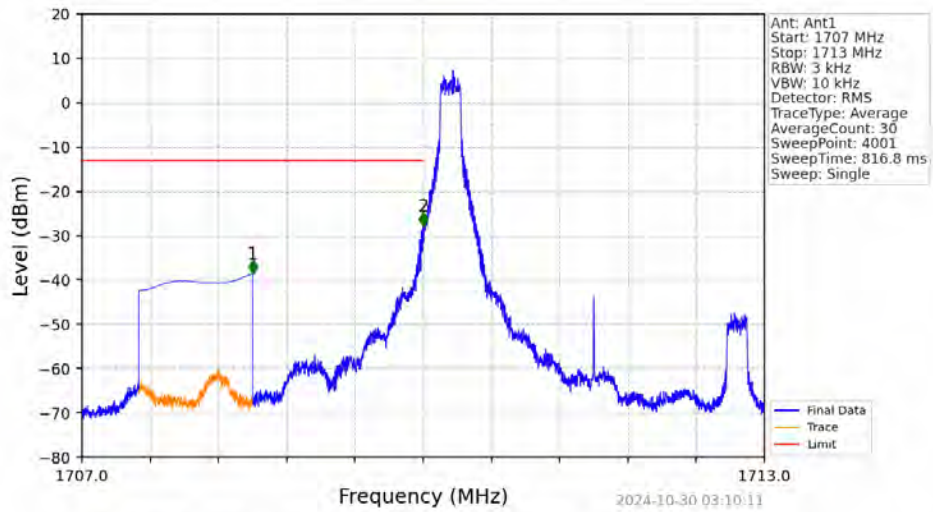
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-28.00	-13	Pass
1756	1758	1	CHP	2	1756.500	-38.91	-13	Pass

Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTV



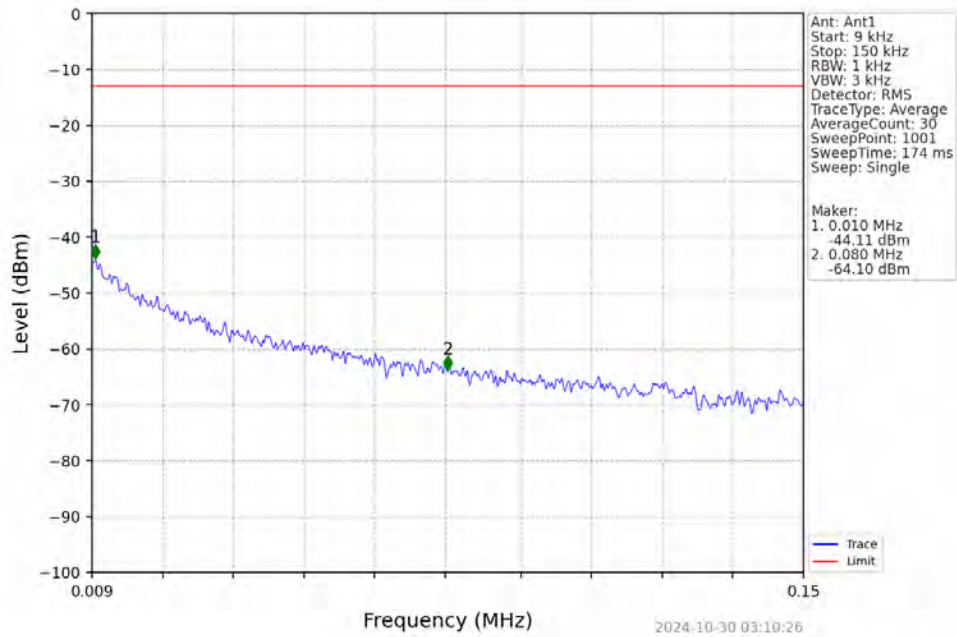
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.031	CHP	/	/	/	/	/
1755	1756	0.031	CHP	1	1755.006	-29.23	-13	Pass
1756	1758	1	CHP	2	1756.500	-21.30	-13	Pass

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

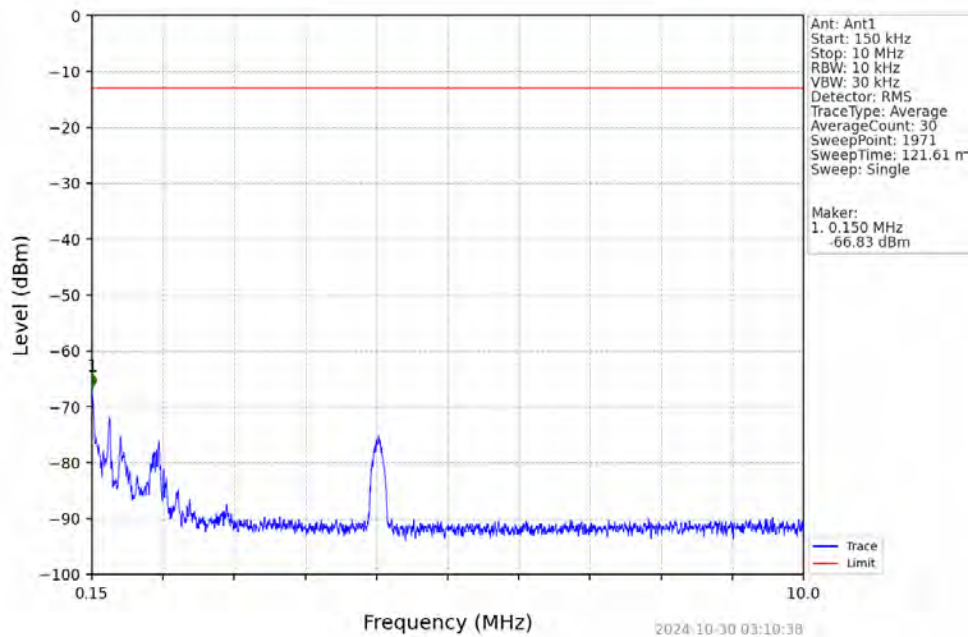


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-38.58	-13	Pass
1709	1710	0.003	/	2	1709.998	-27.90	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

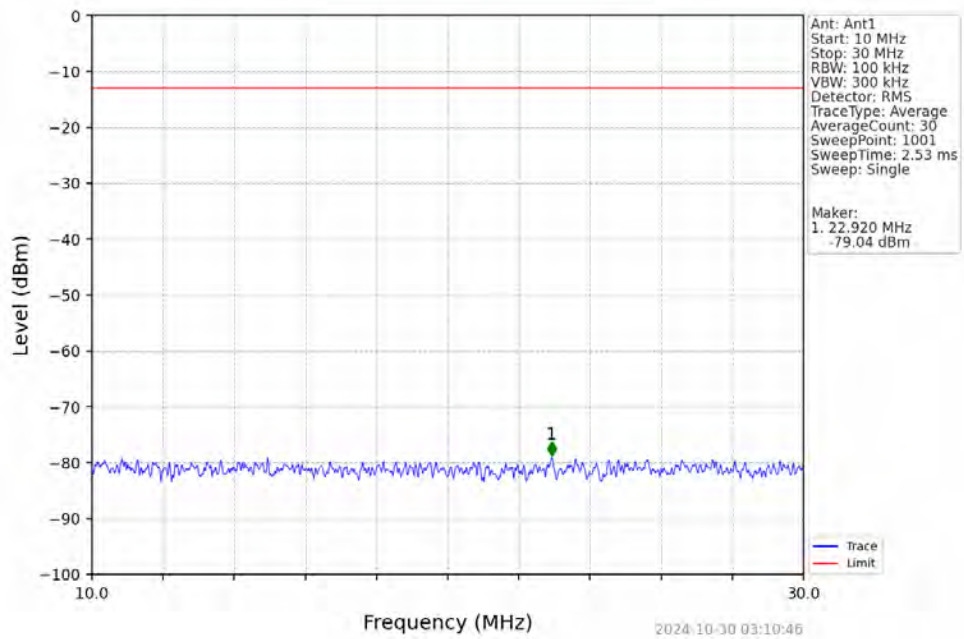
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



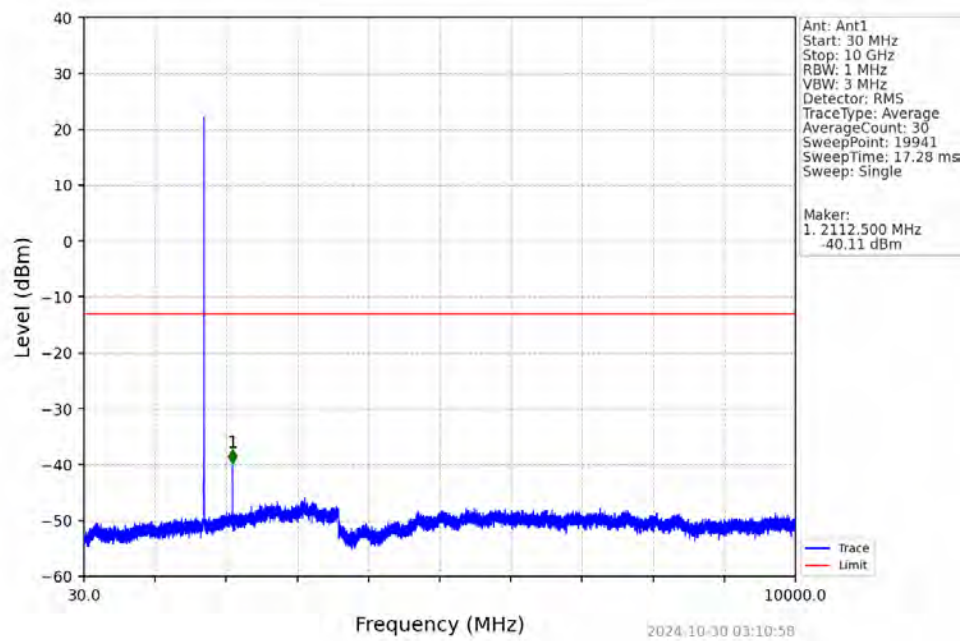
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



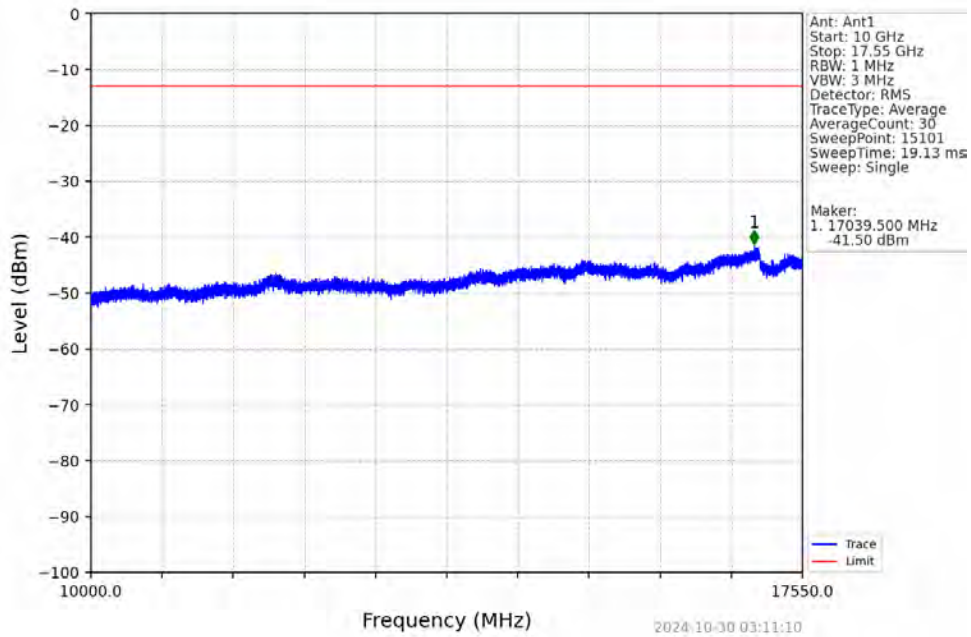
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



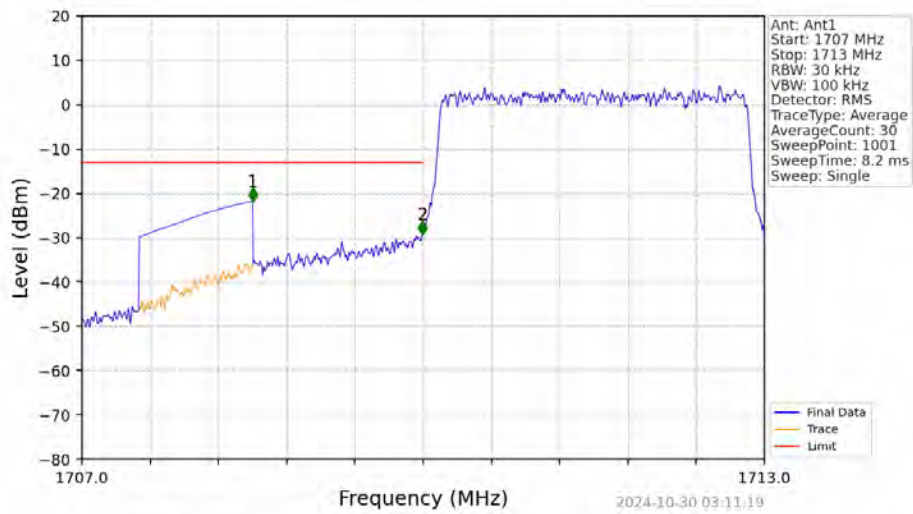
Band4 3MHz 16QAM LCH 1711.5MHz RB 1 0 NTNV



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

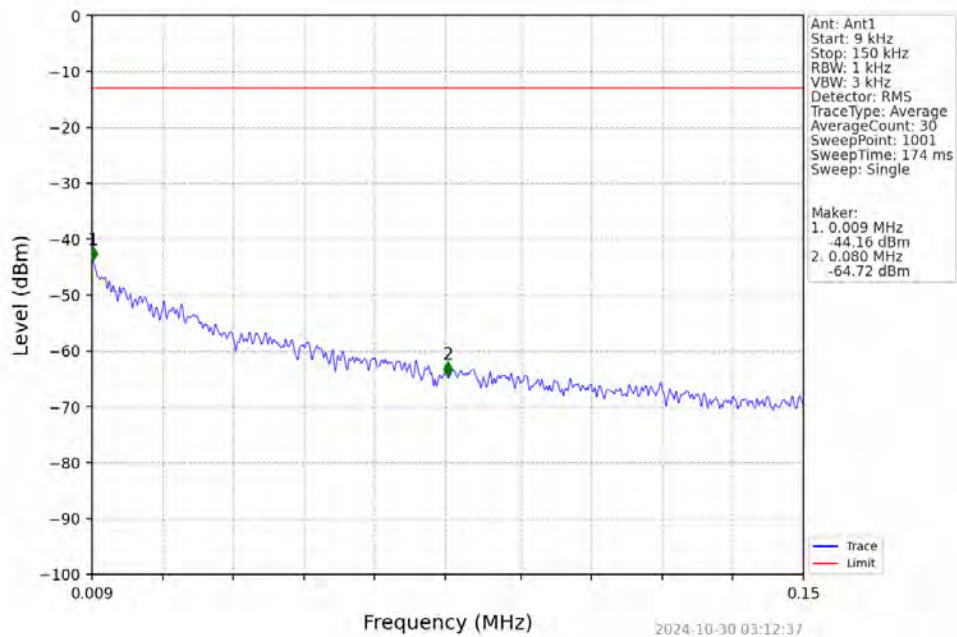


Band4 3MHz 16QAM LCH 1711.5MHz RB 15 0 NTNV

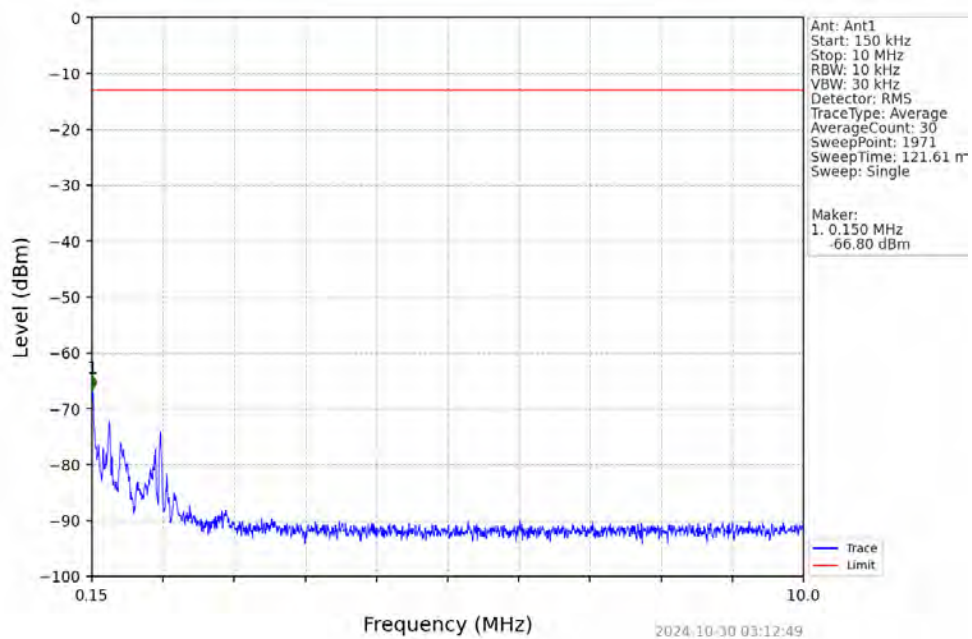


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-21.82	-13	Pass
1709	1710	0.03	/	2	1709.994	-29.26	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

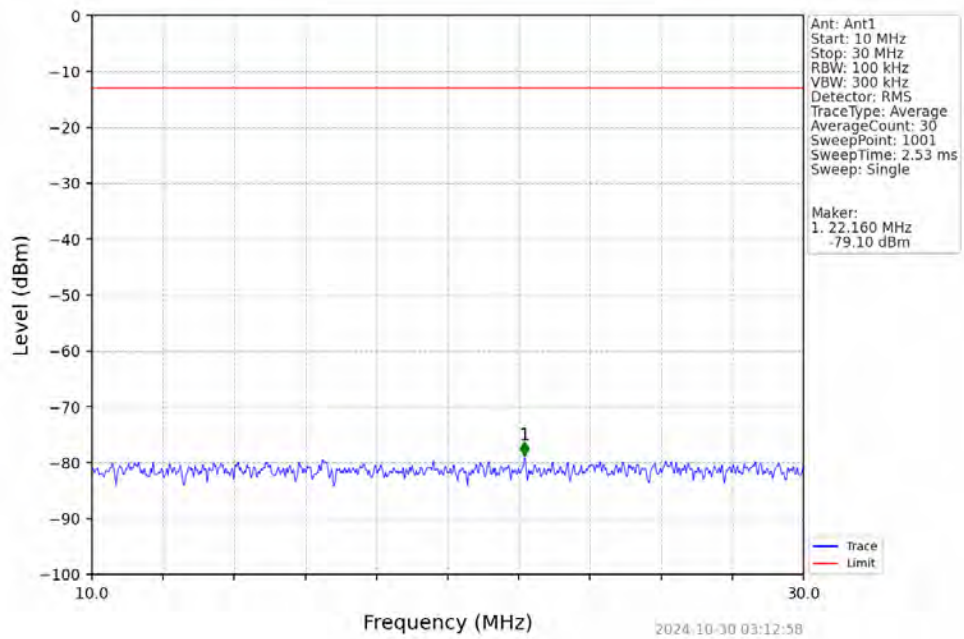
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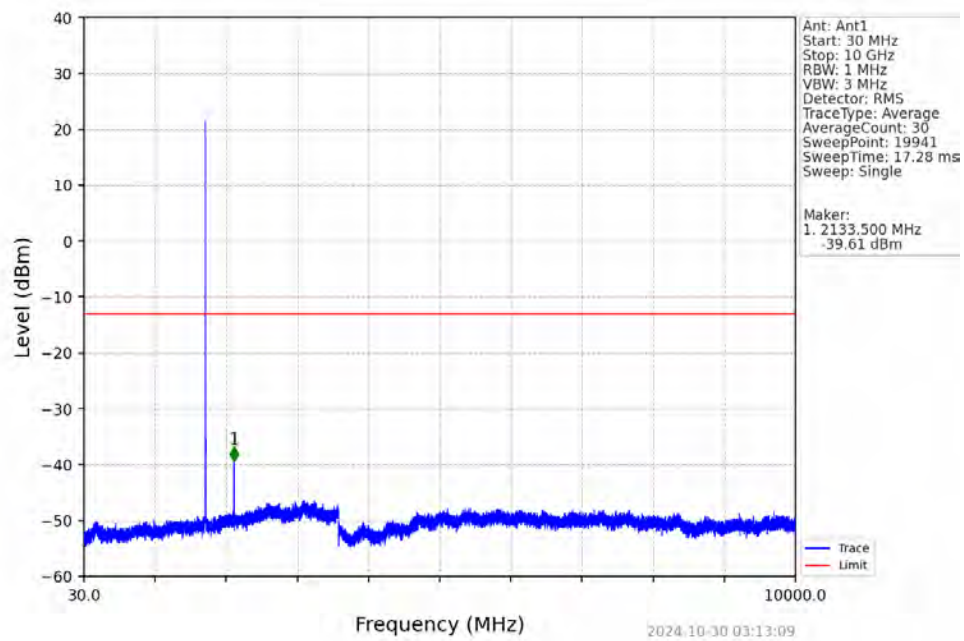
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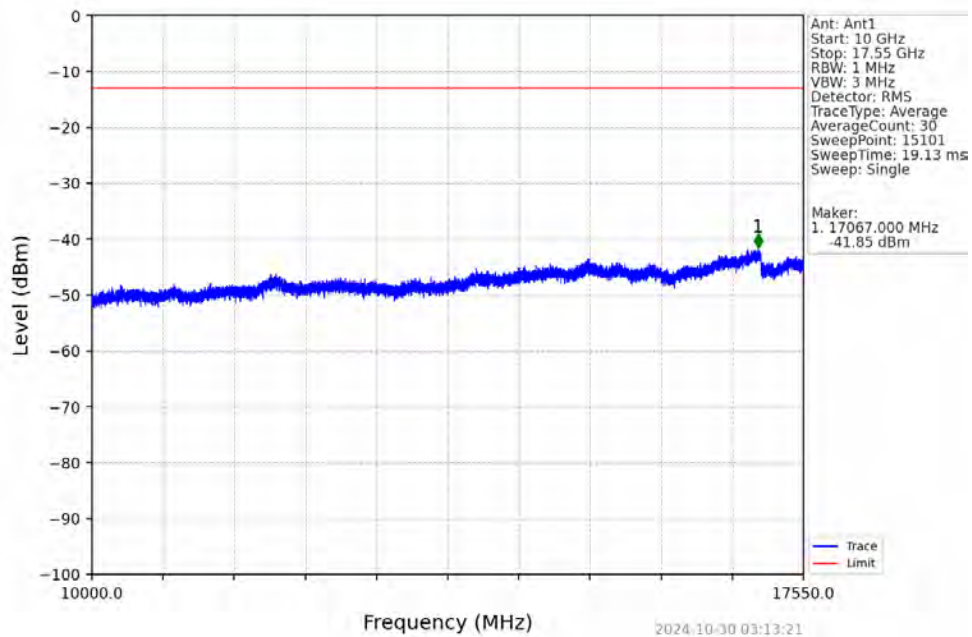
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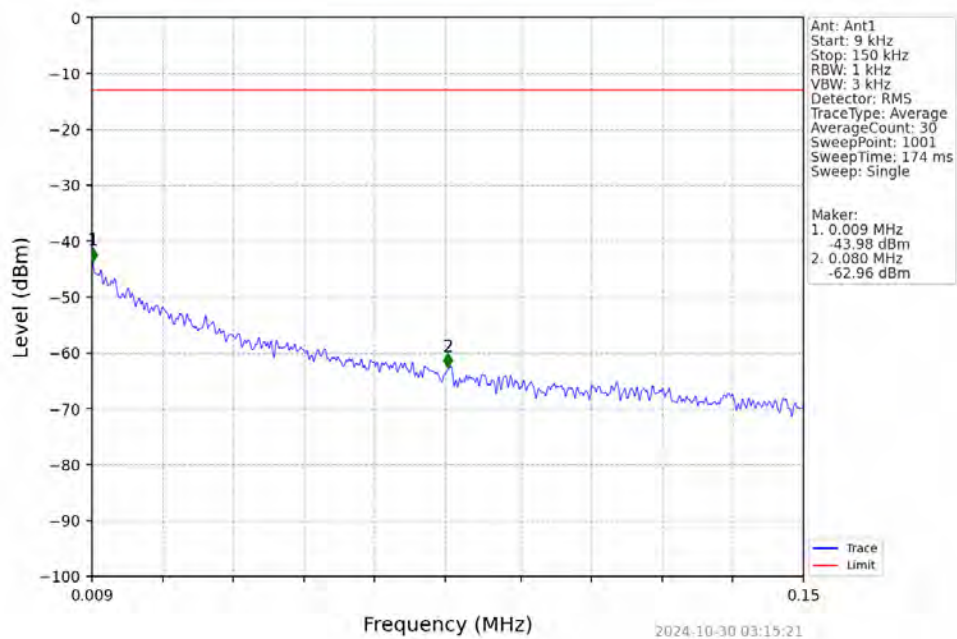
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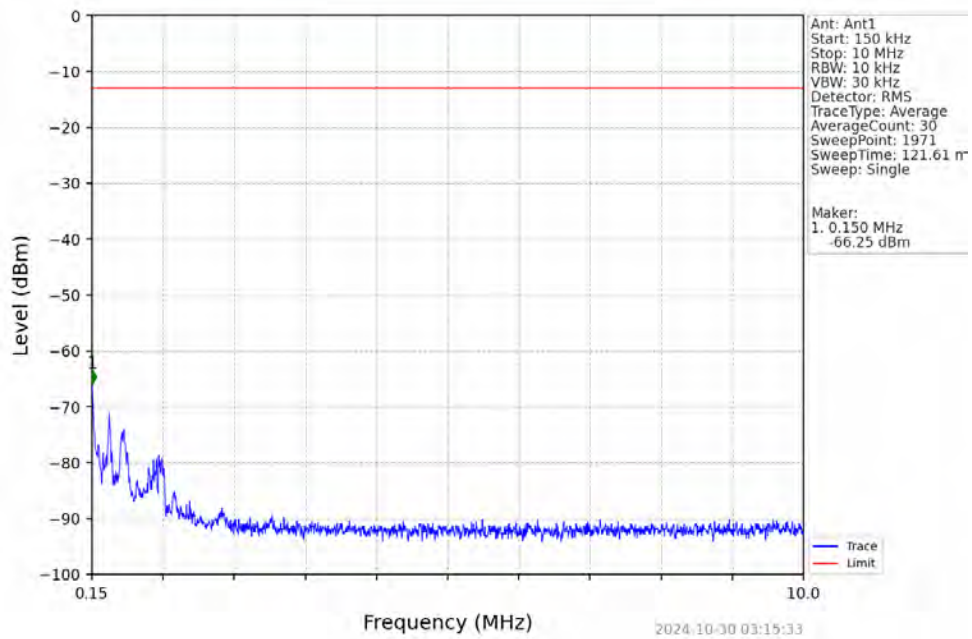
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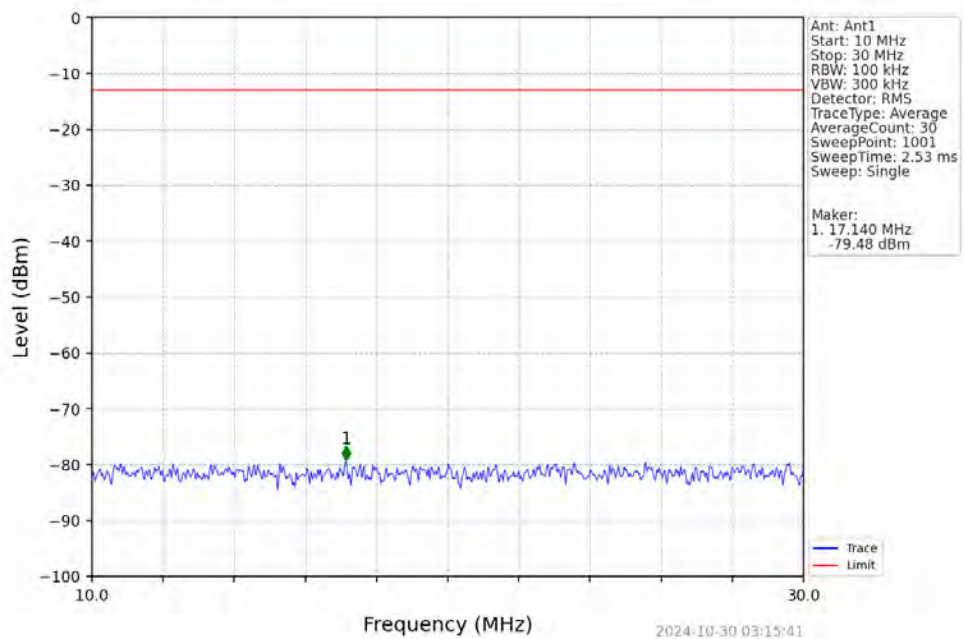
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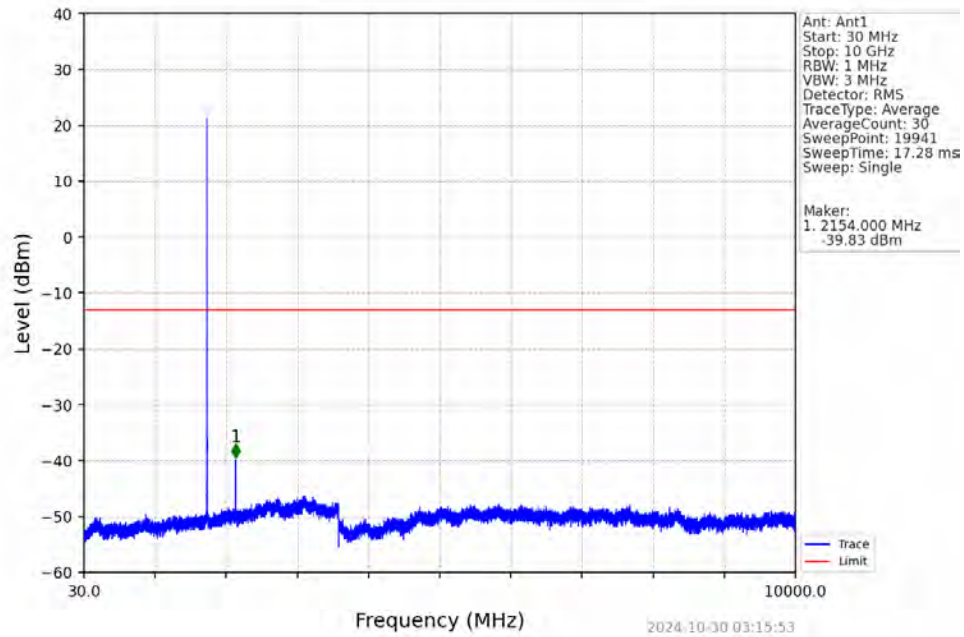
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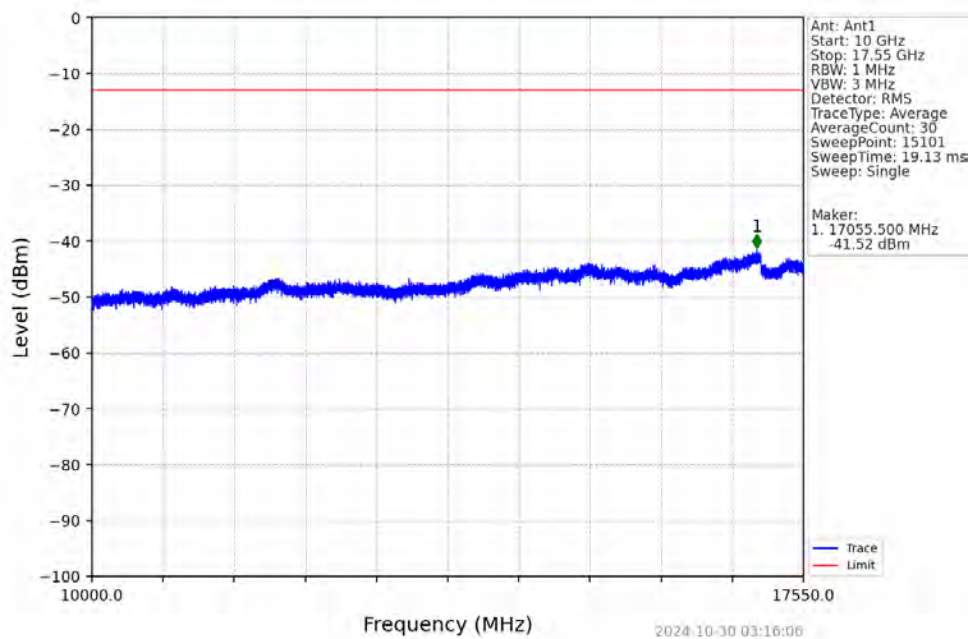
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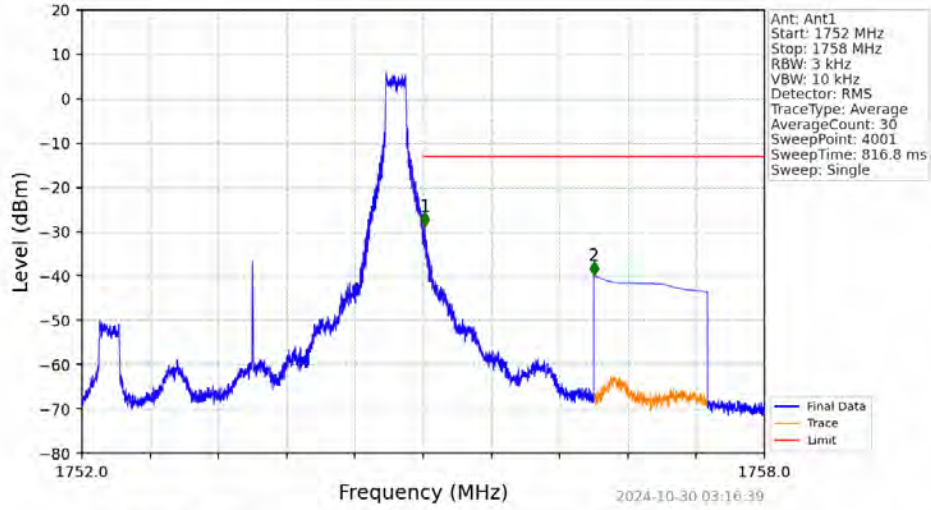
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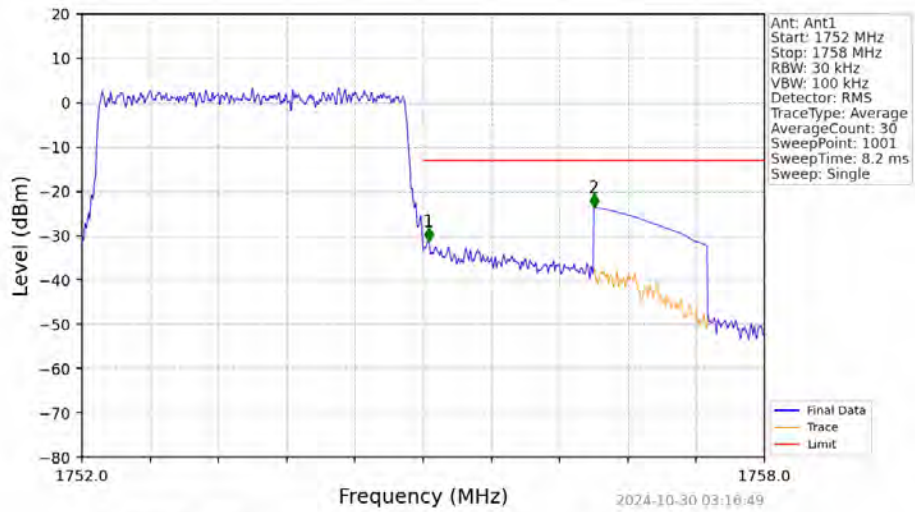
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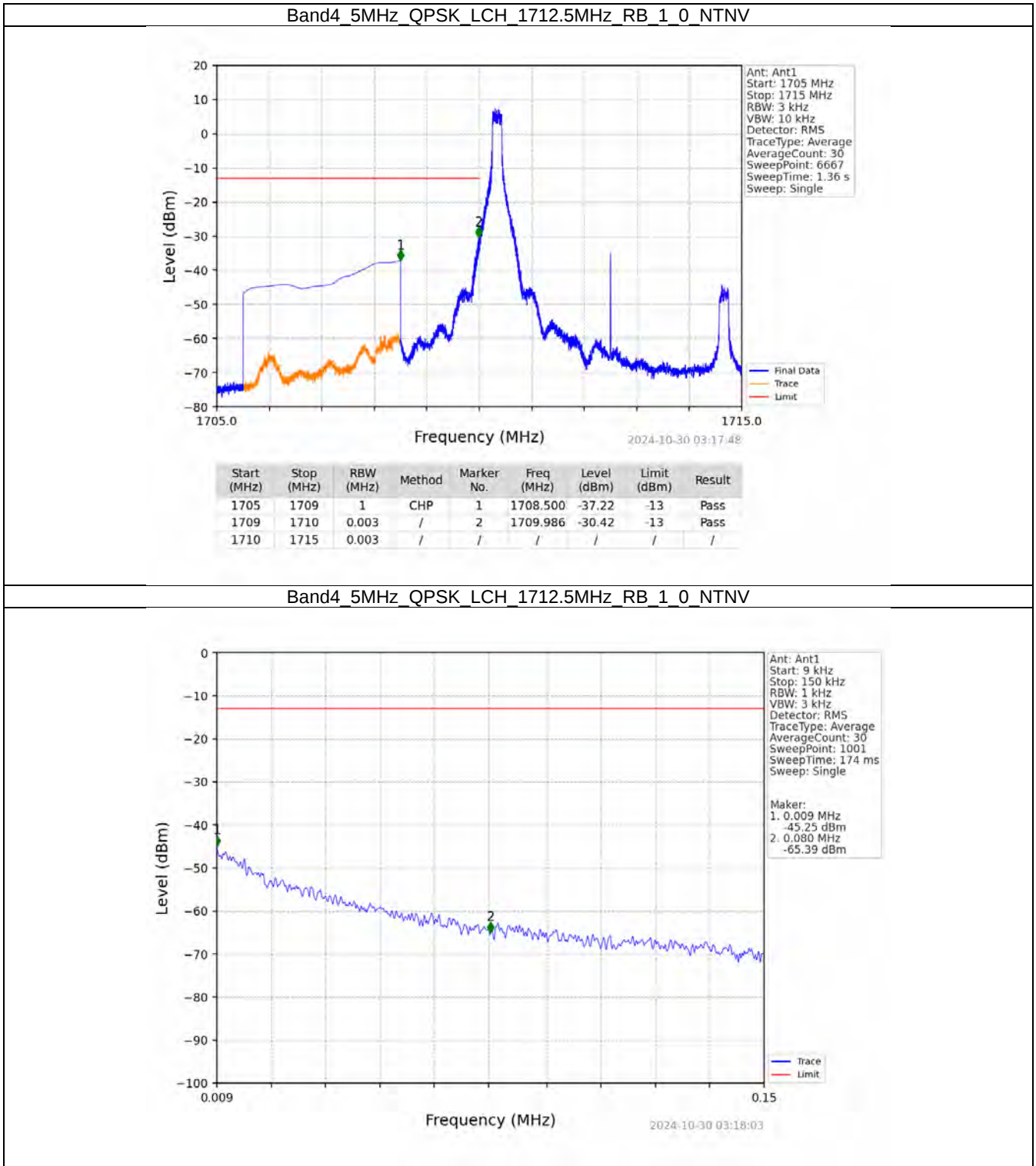
Band4 3MHz 16QAM HCH 1753.5MHz RB 1 14 NTNV



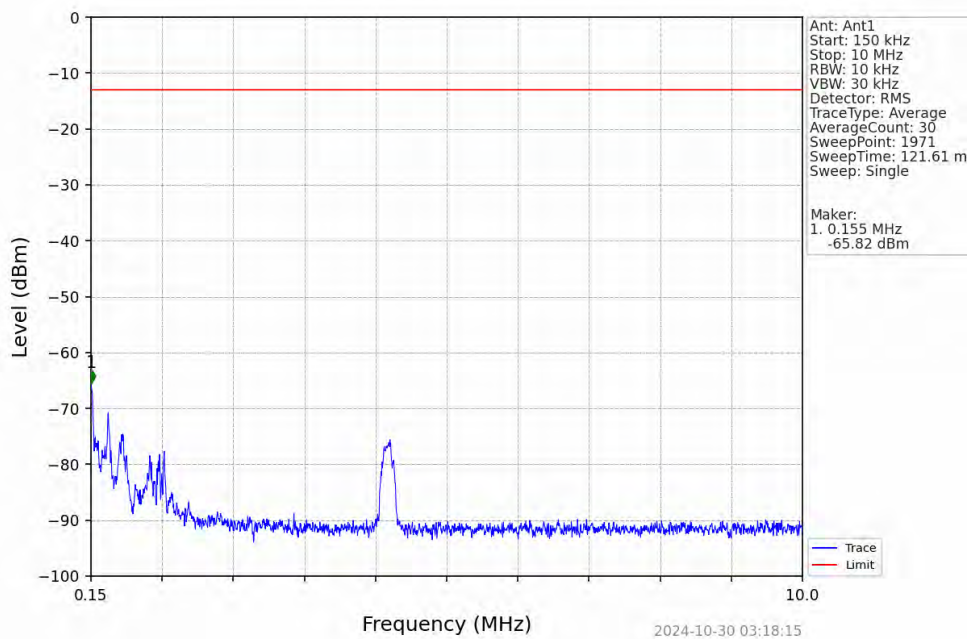
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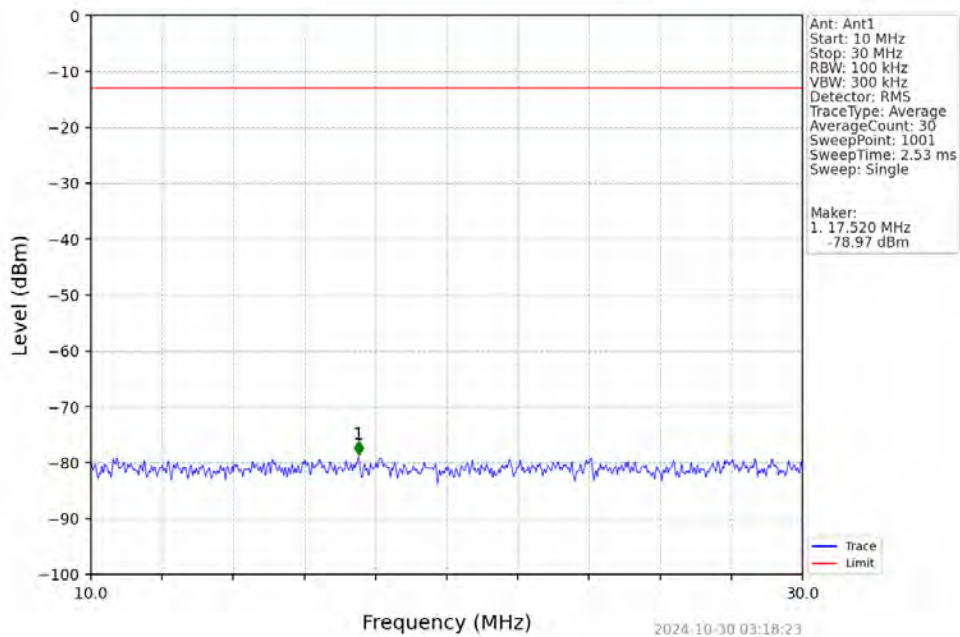
6.2.3 B4_5MHz



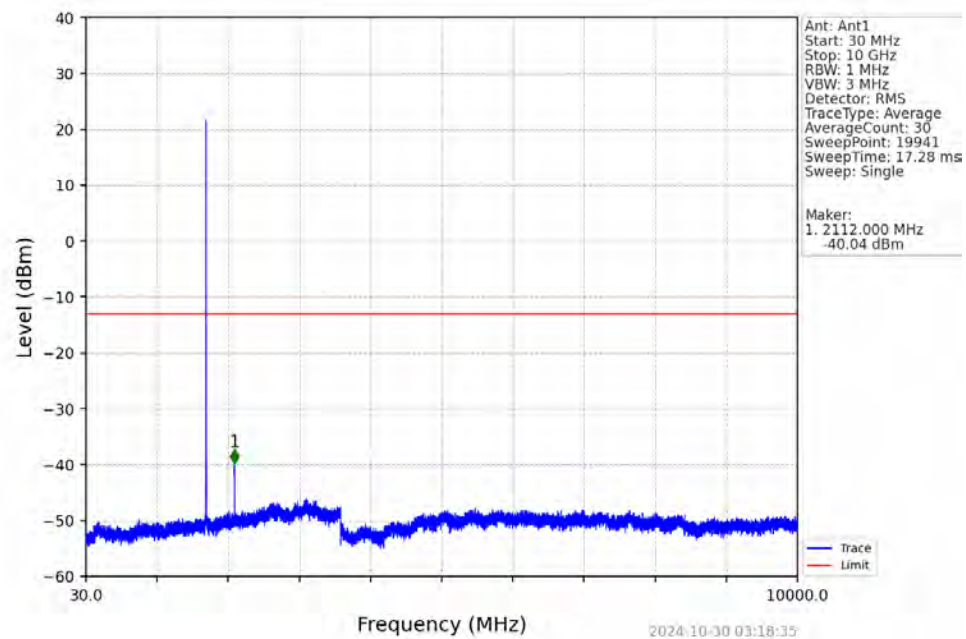
Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN



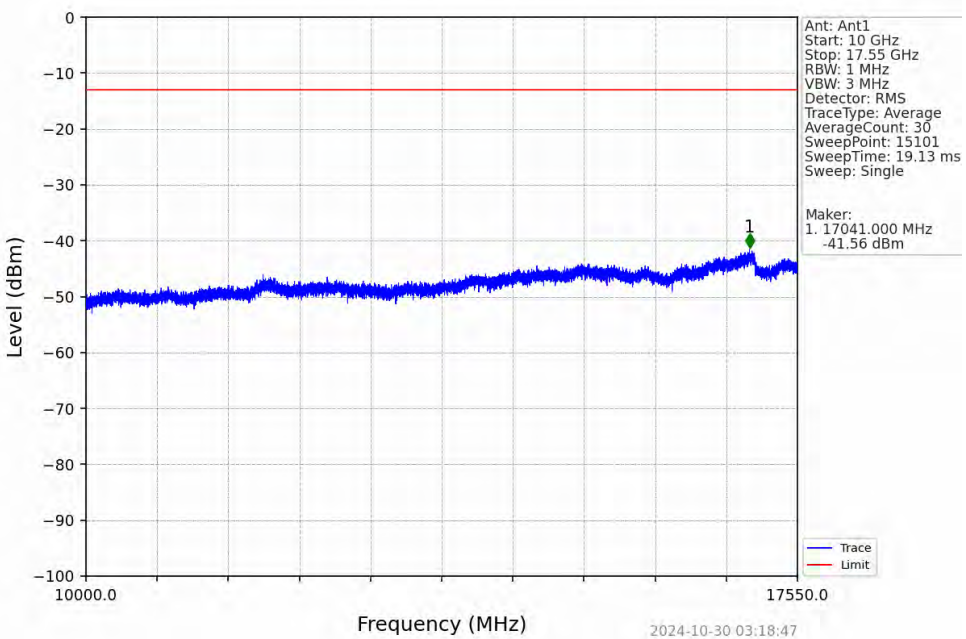
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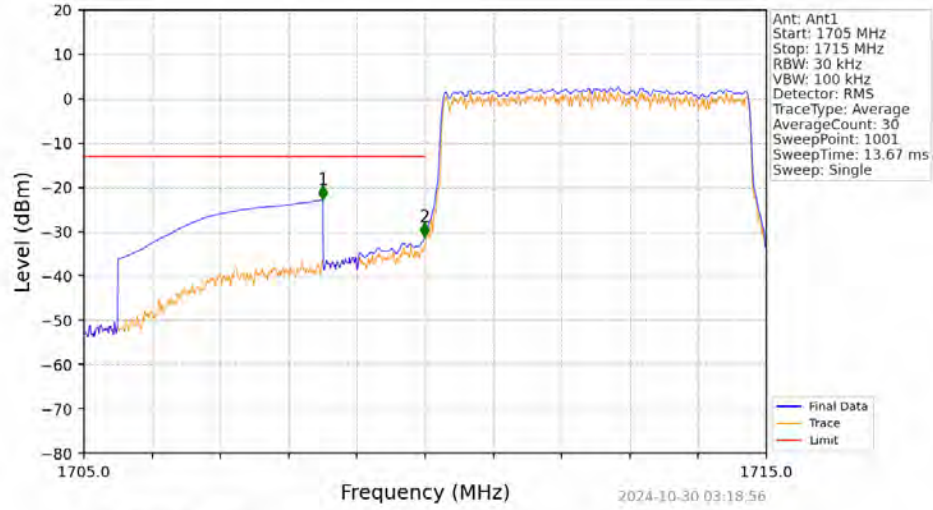
Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN



Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN

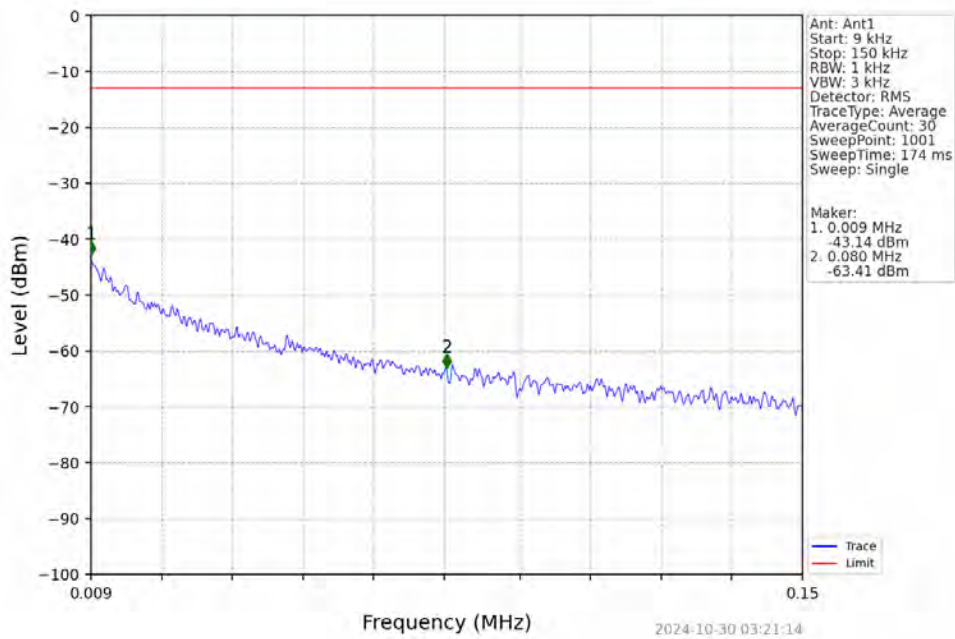


Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV

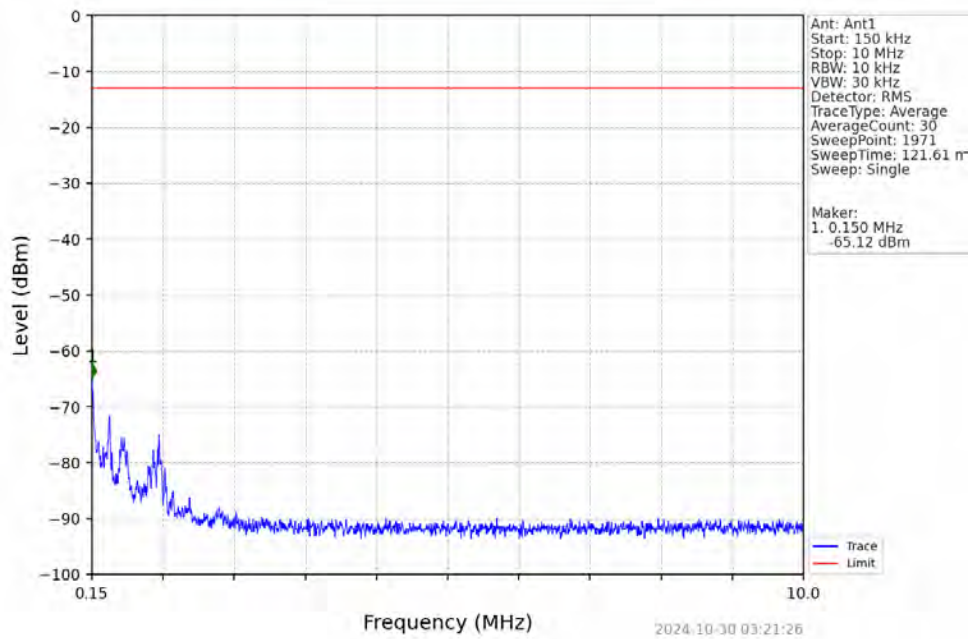


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-22.81	-13	Pass
1709	1710	0.05	CHP	2	1709.990	-31.20	-13	Pass
1710	1715	0.05	CHP	/	/	/	/	/

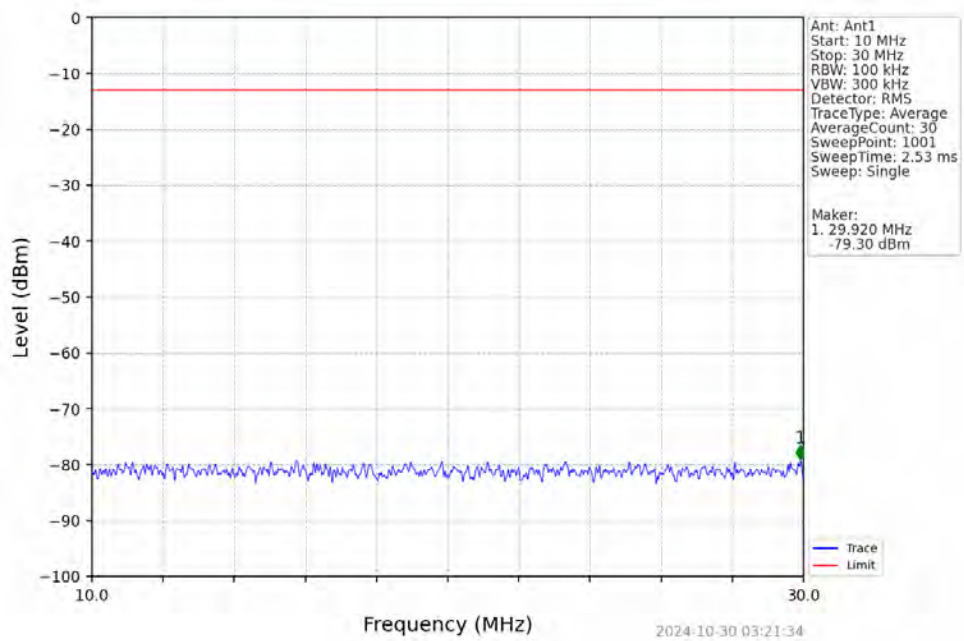
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



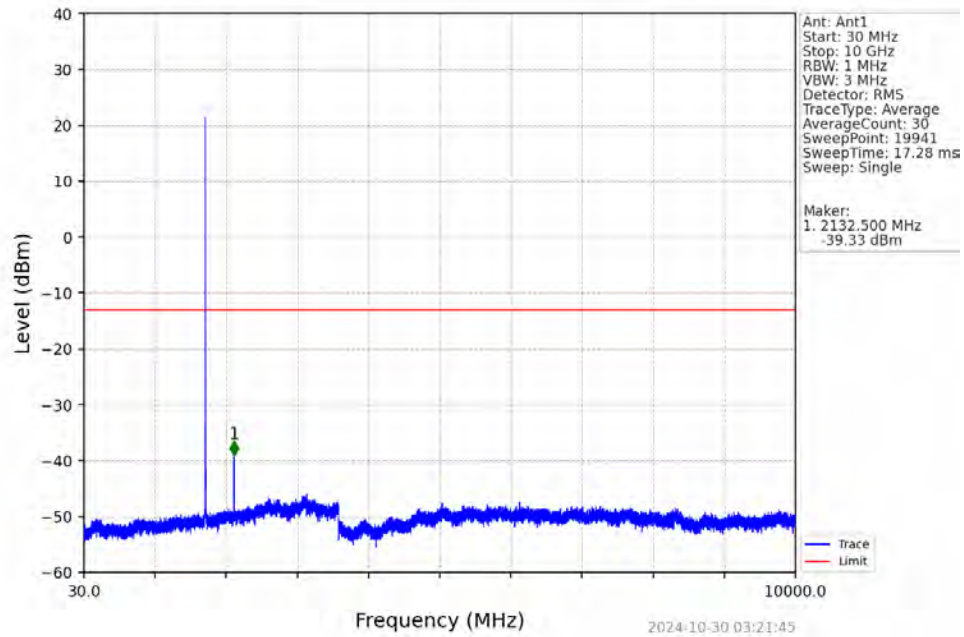
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



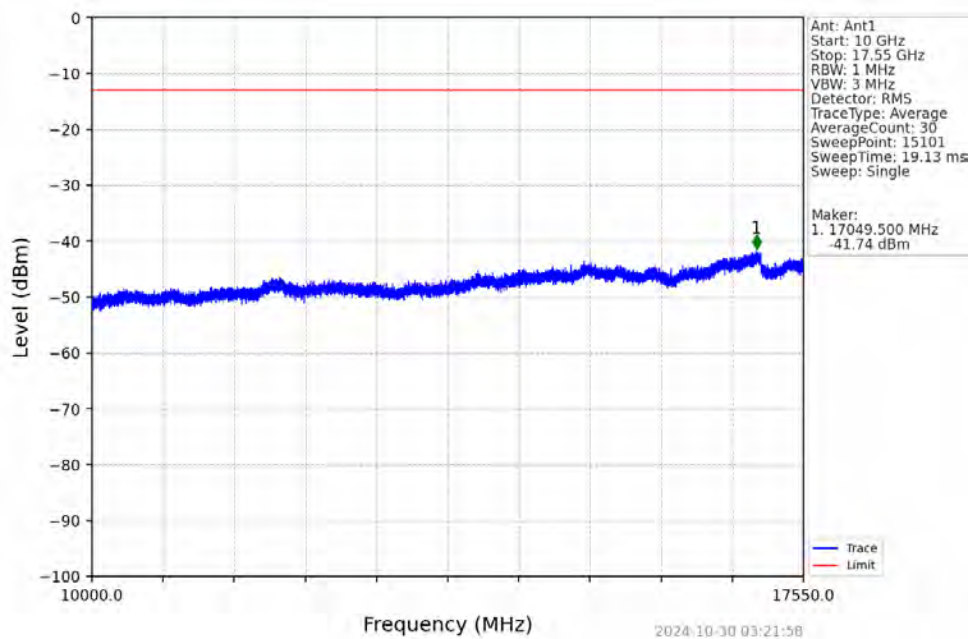
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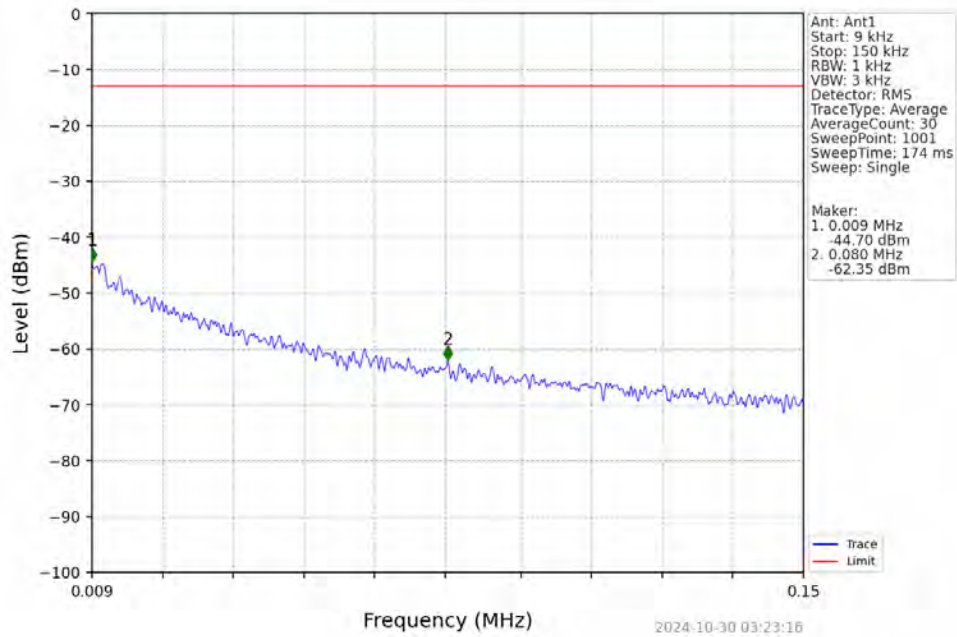
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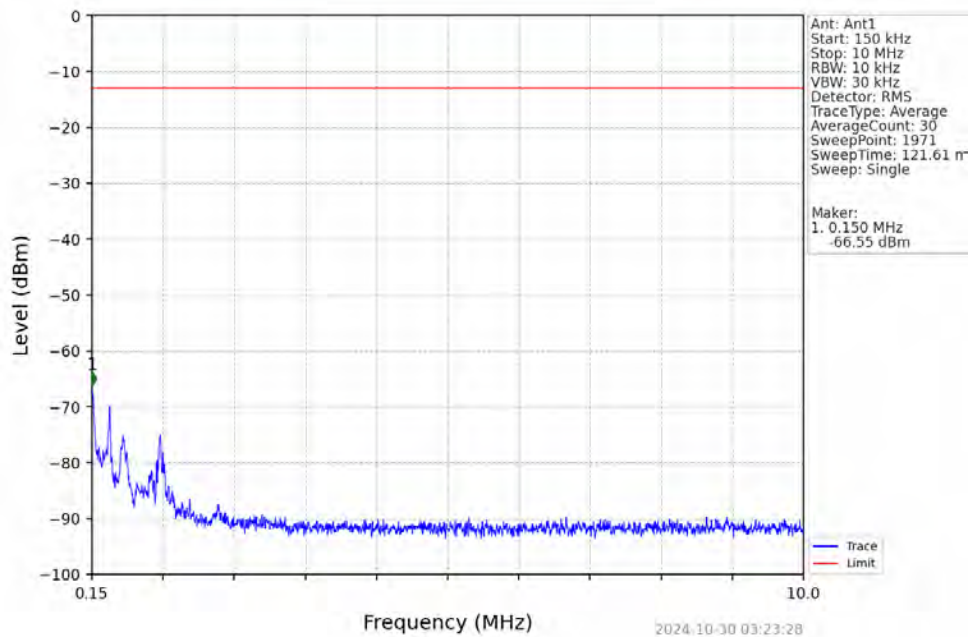
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



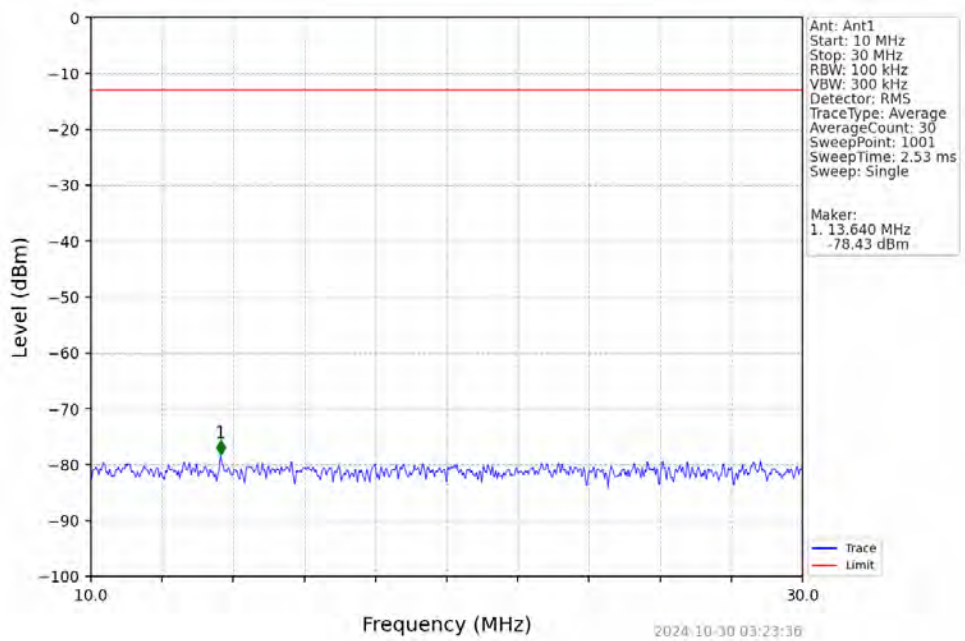
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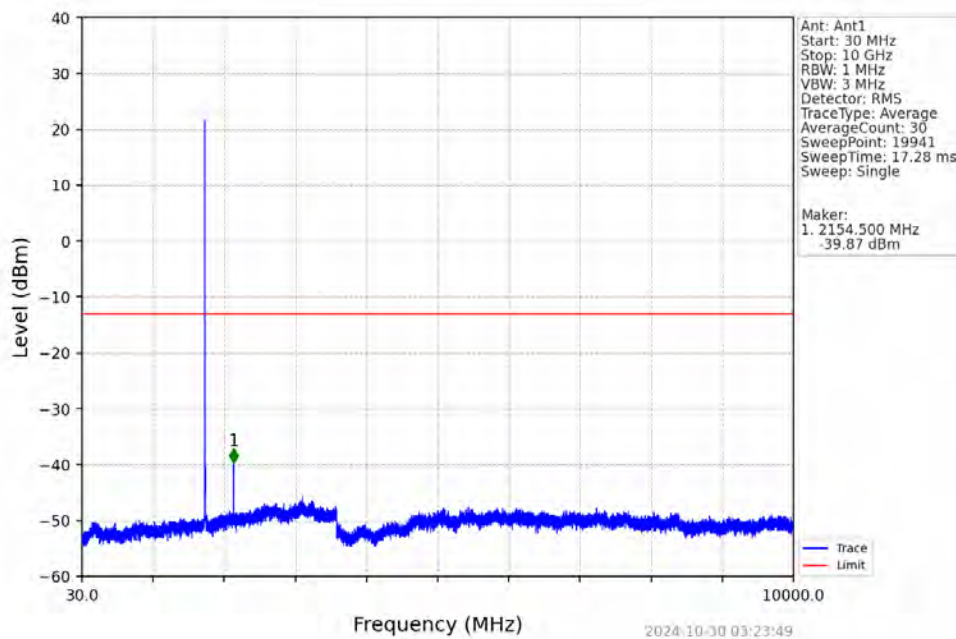
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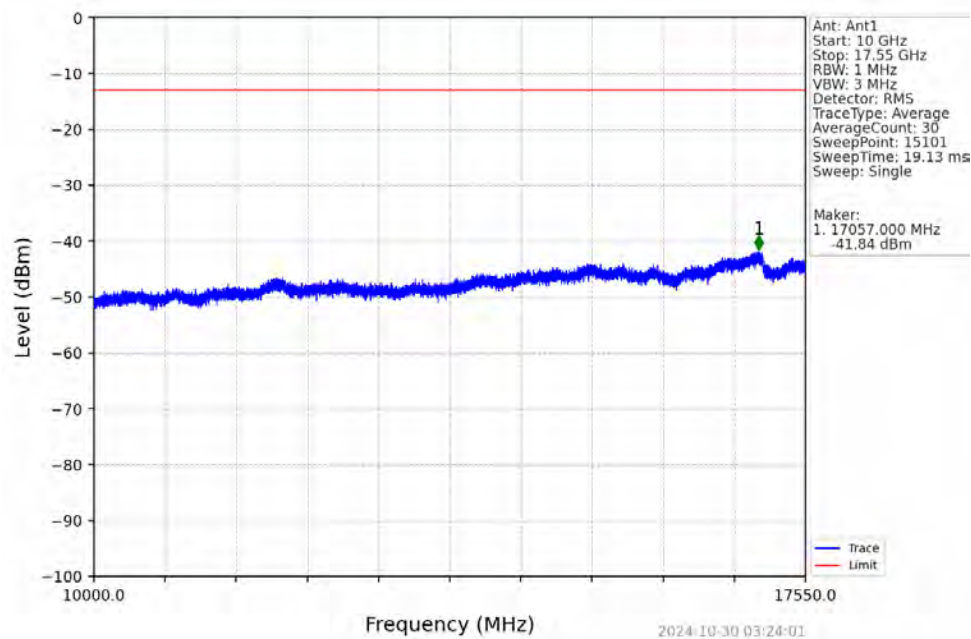
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



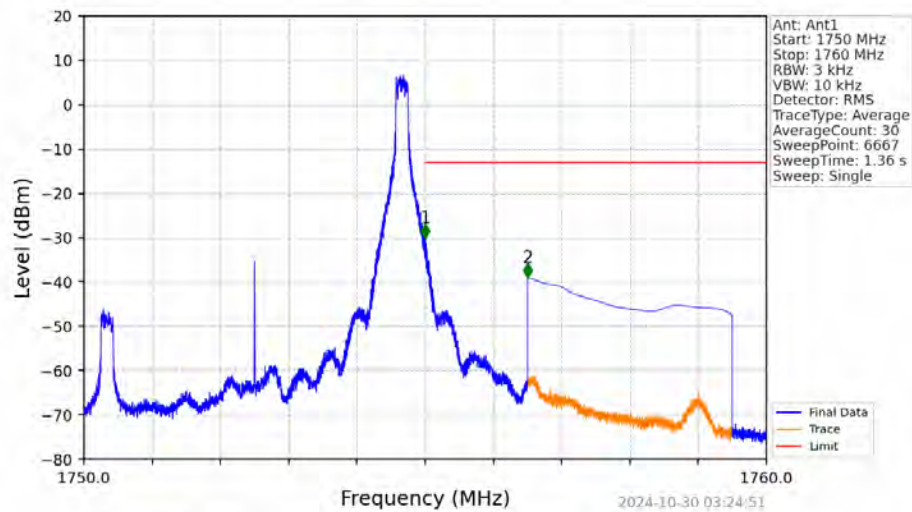
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN

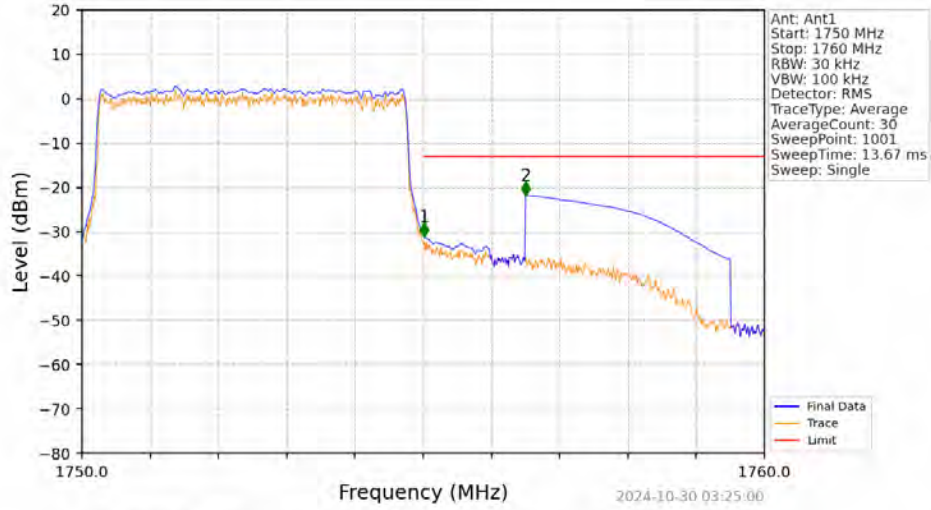


Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTN



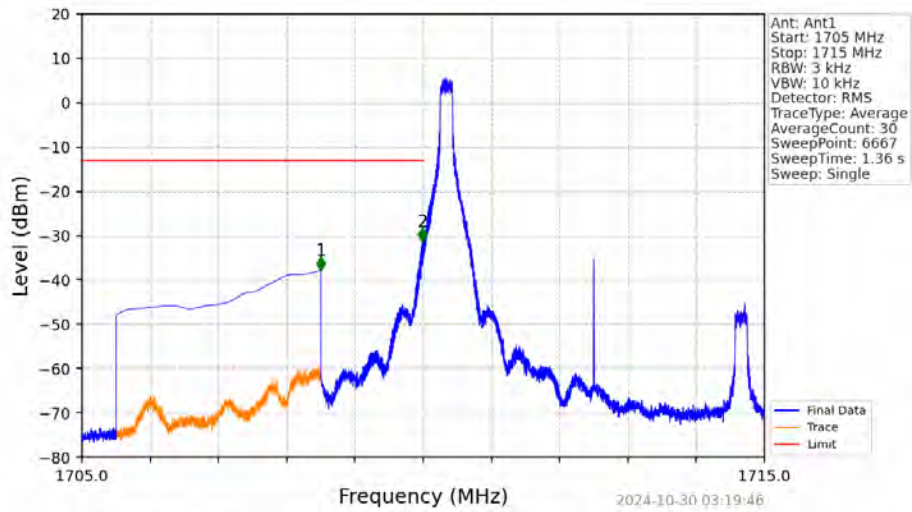
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-29.98	-13	Pass
1756	1760	1	CHP	2	1756.500	-38.97	-13	Pass

Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV



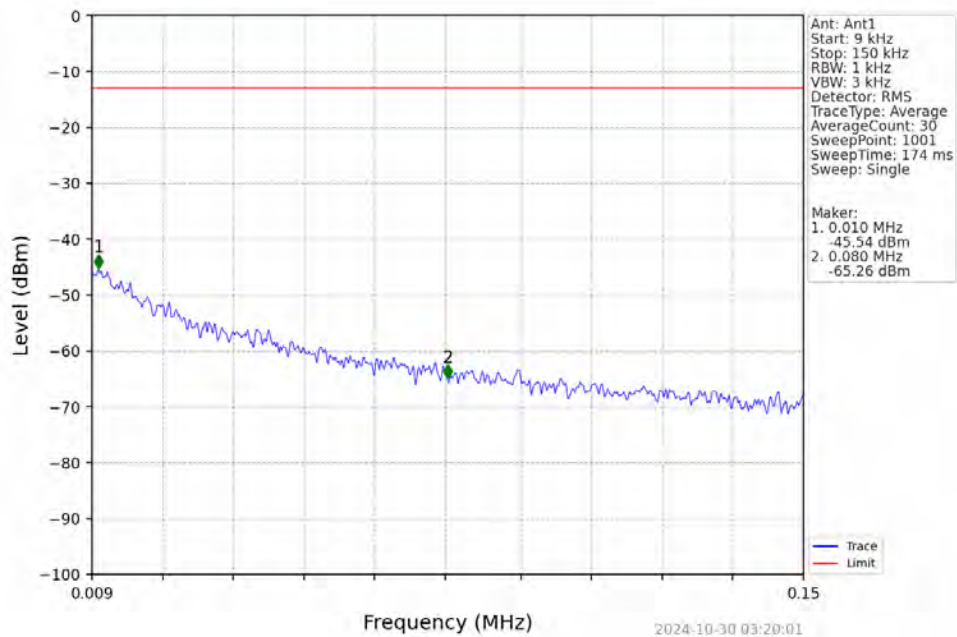
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	CHP	/	/	/	/	/
1755	1756	0.051	CHP	1	1755.010	-31.18	-13	Pass
1756	1760	1	CHP	2	1756.500	-21.83	-13	Pass

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

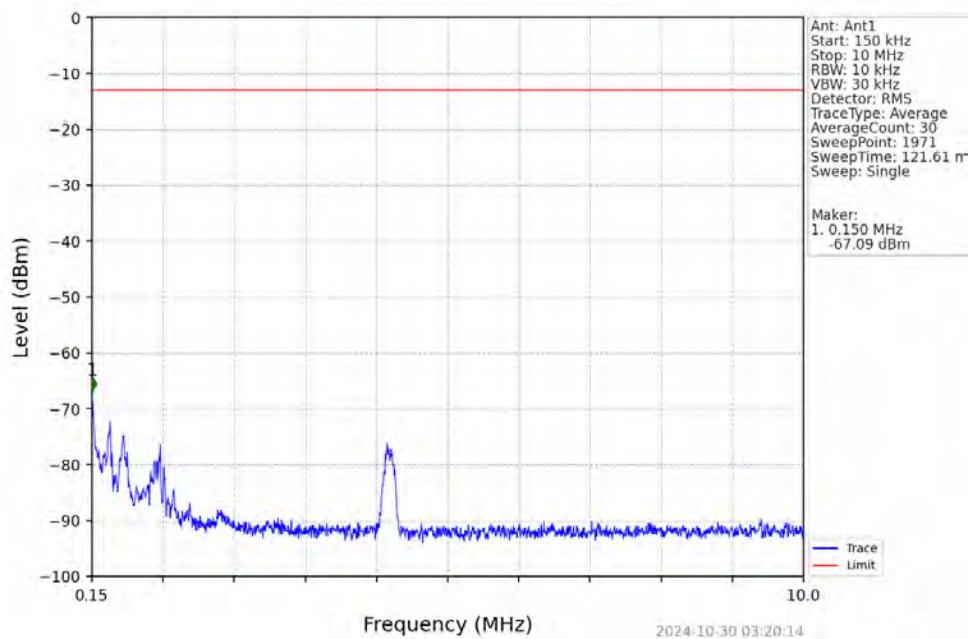


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-37.86	-13	Pass
1709	1710	0.003	/	2	1709.988	-31.23	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

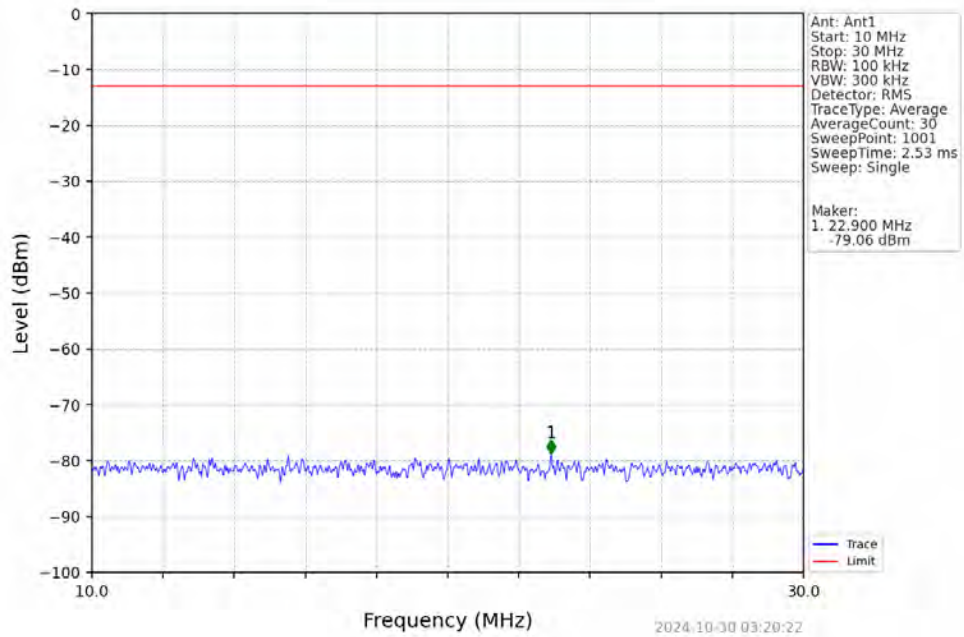
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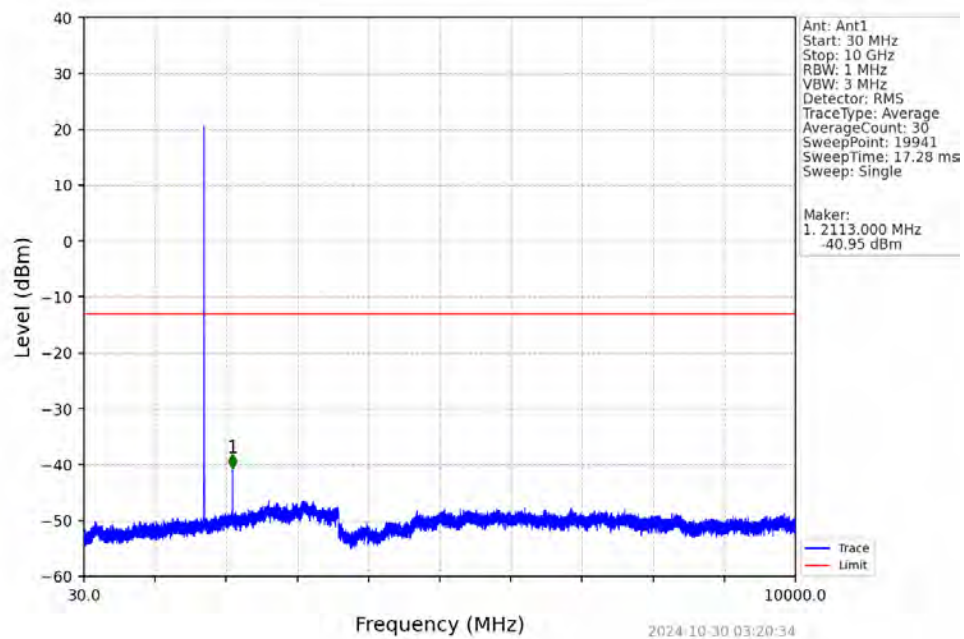
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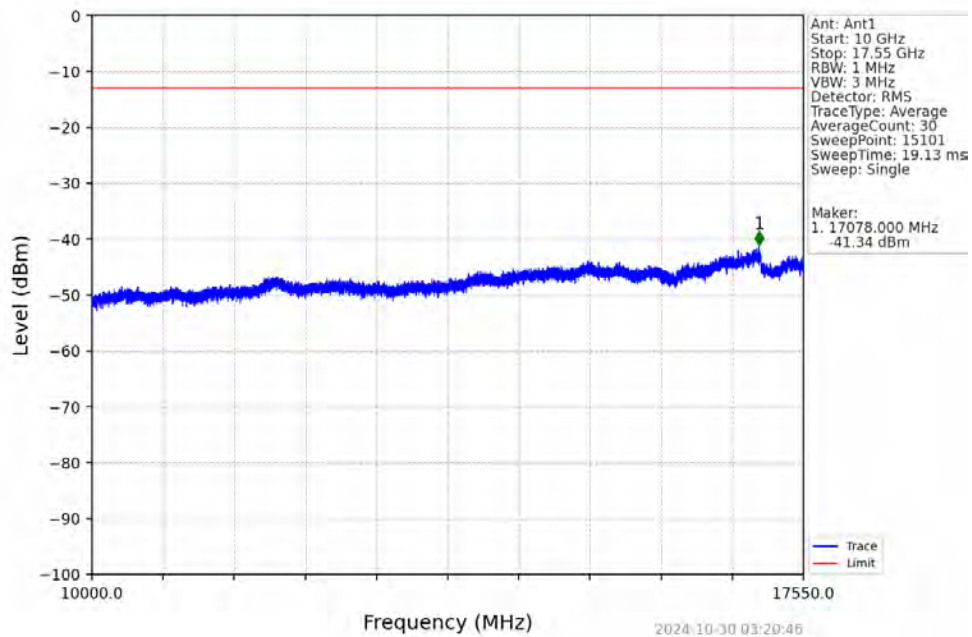
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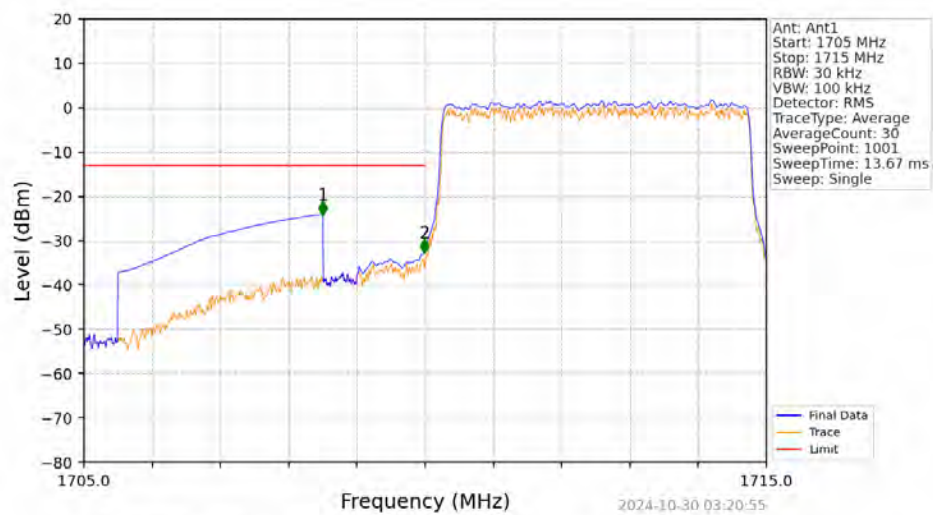
Band4 5MHz 16QAM LCH 1712.5MHz RB 1 0 NTNV



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

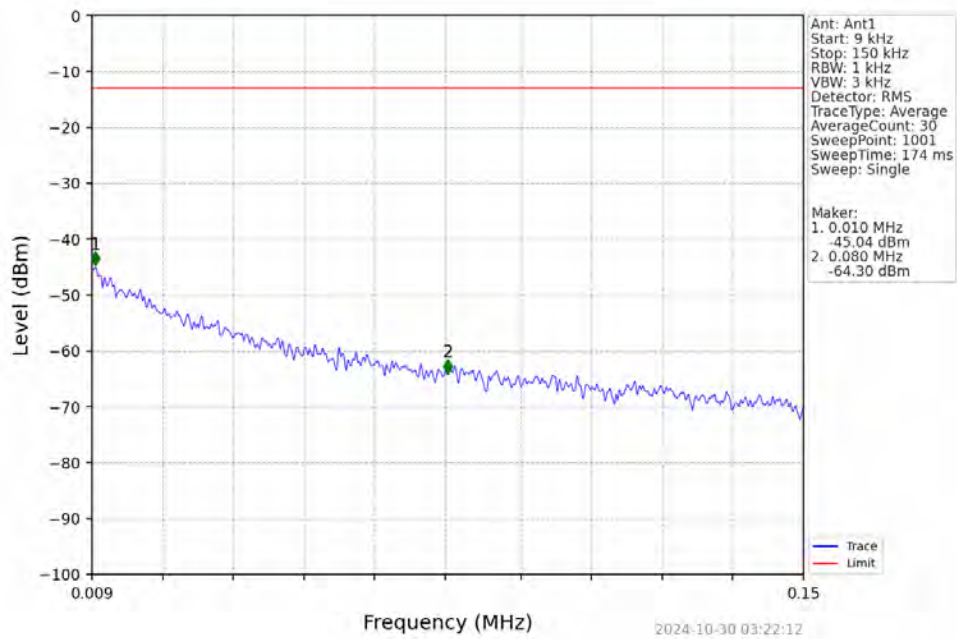


Band4 5MHz 16QAM LCH 1712.5MHz RB 25 0 NTV

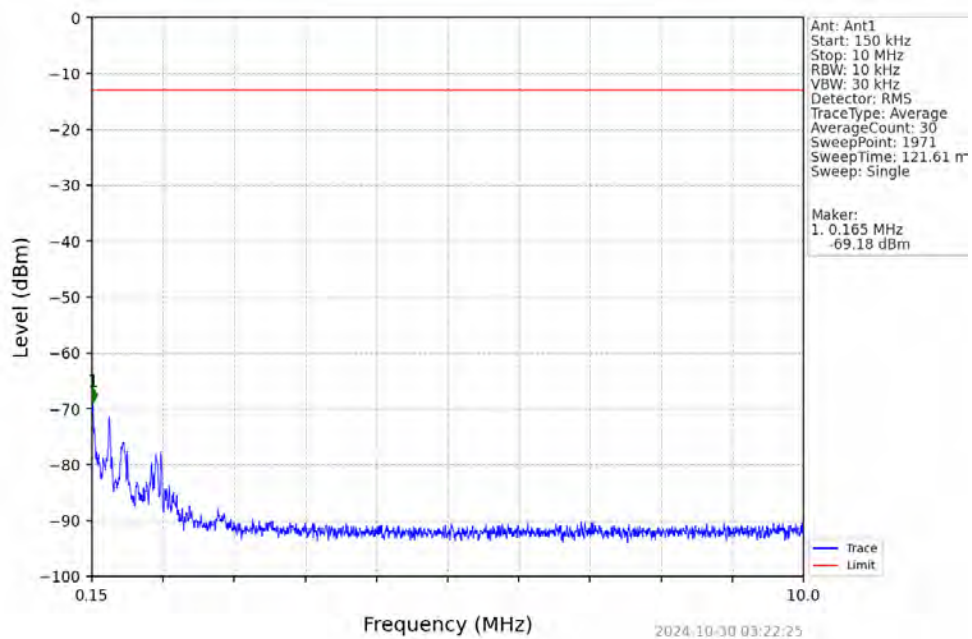


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-24.20	-13	Pass
1709	1710	0.05	CHP	2	1709.990	-32.69	-13	Pass
1710	1715	0.05	CHP	/	/	/	/	/

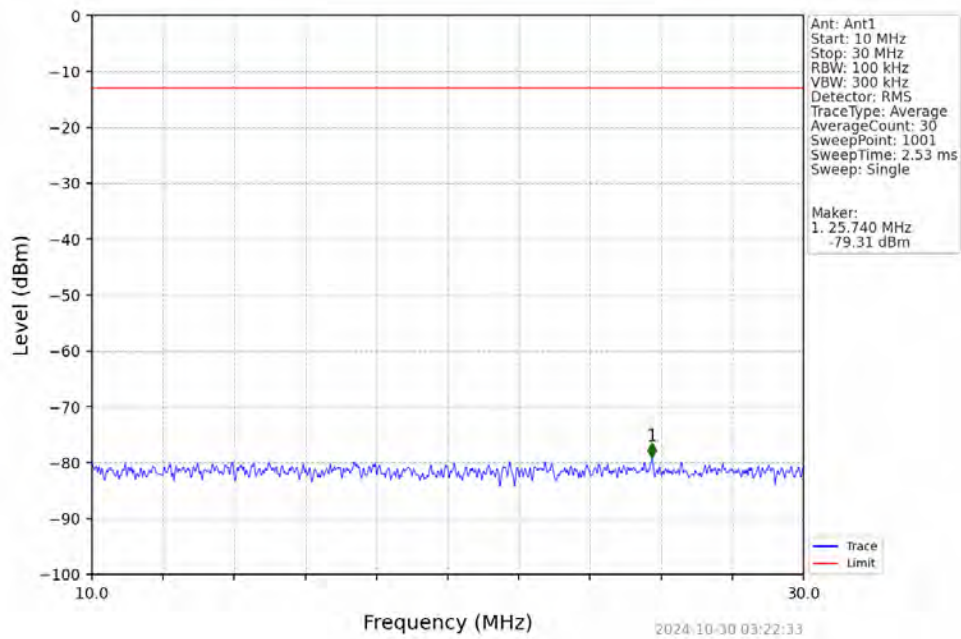
Band4 5MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



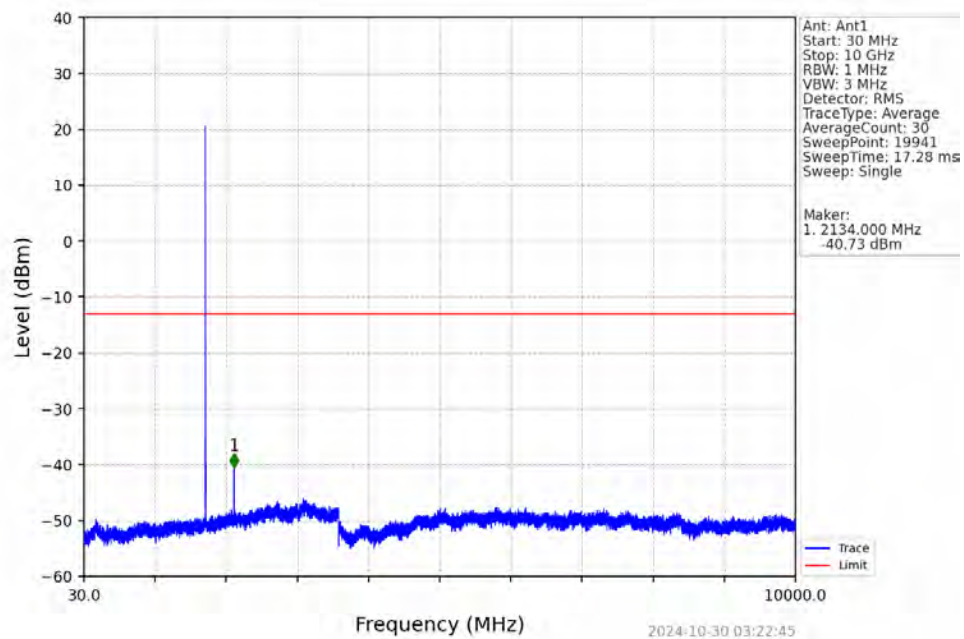
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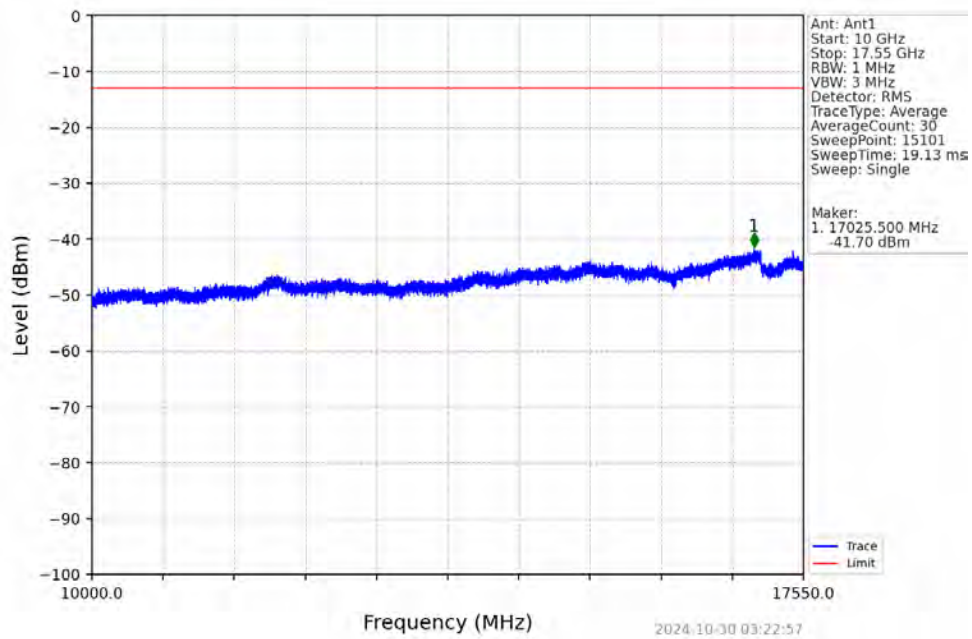
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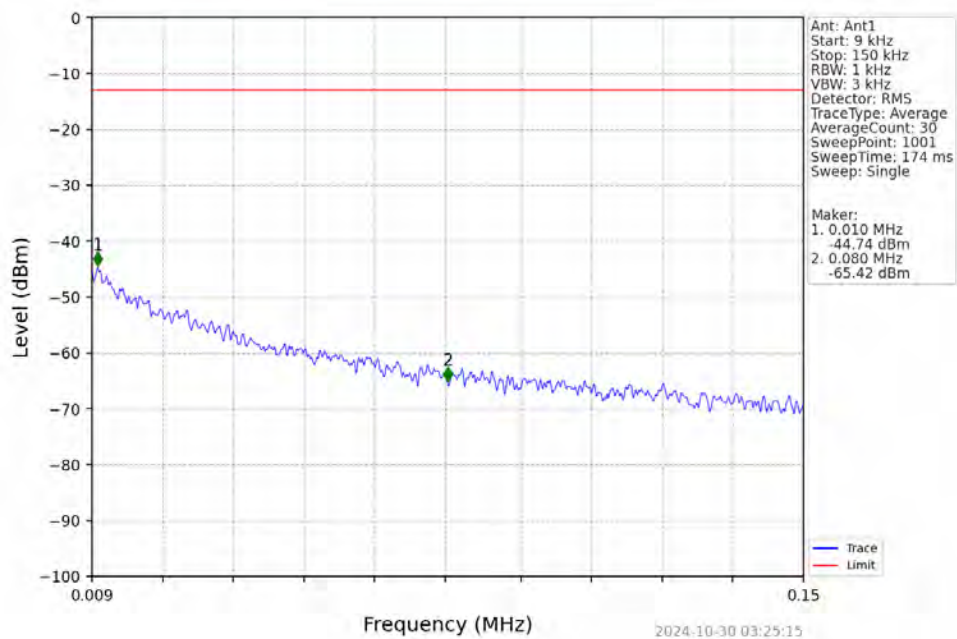
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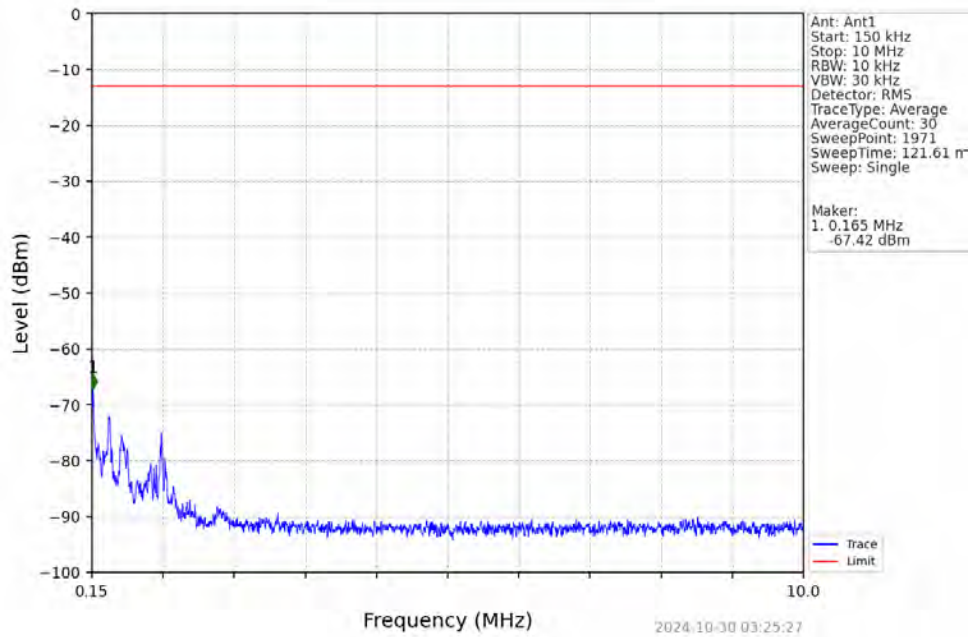
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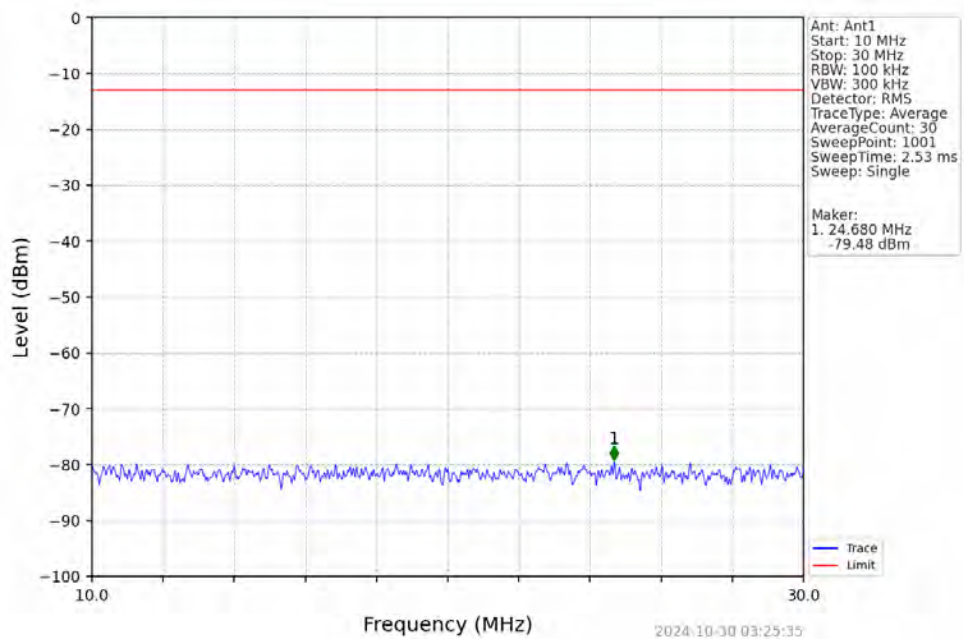
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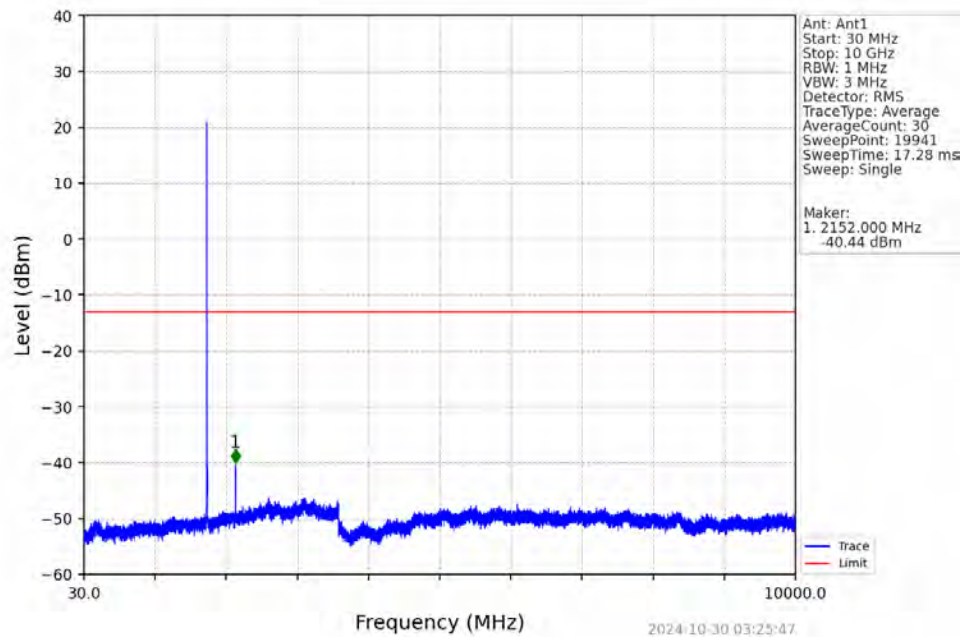
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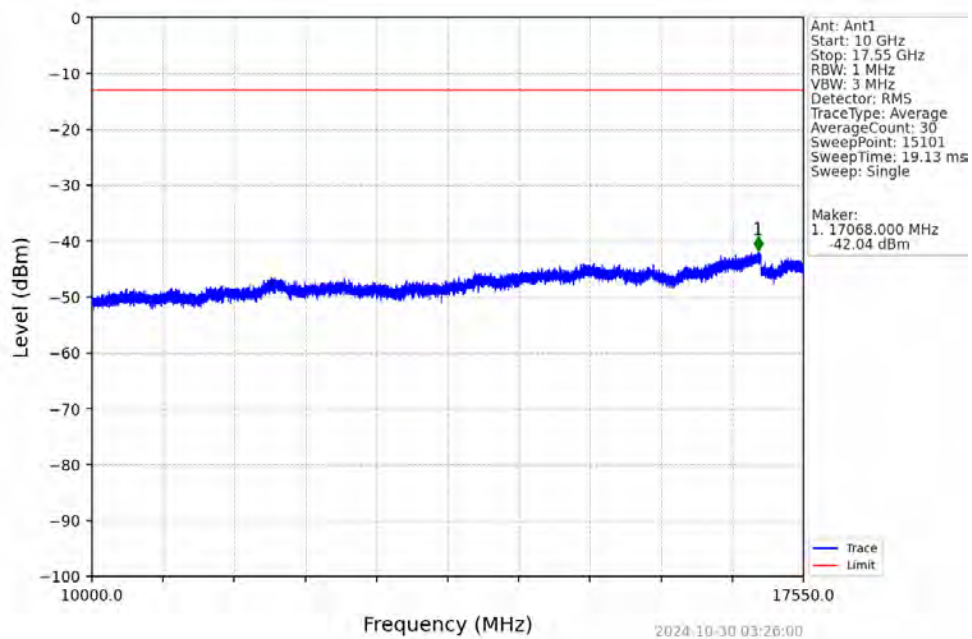
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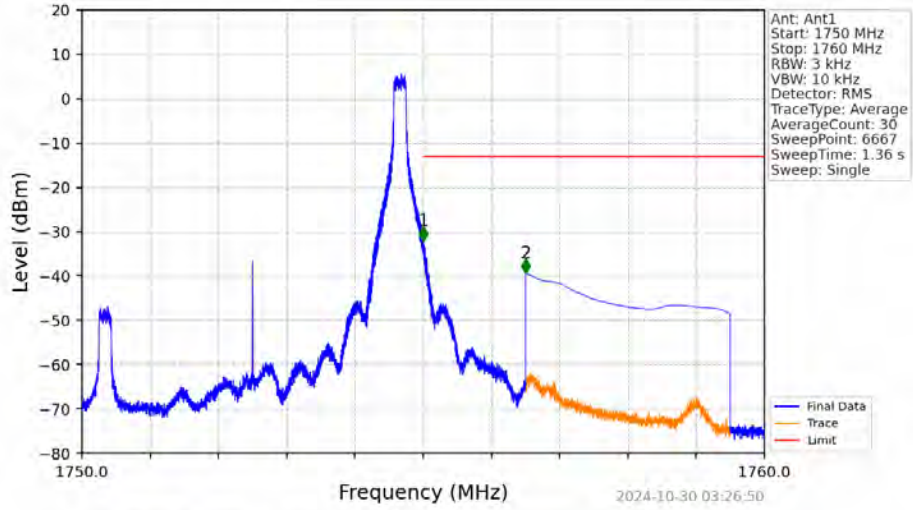
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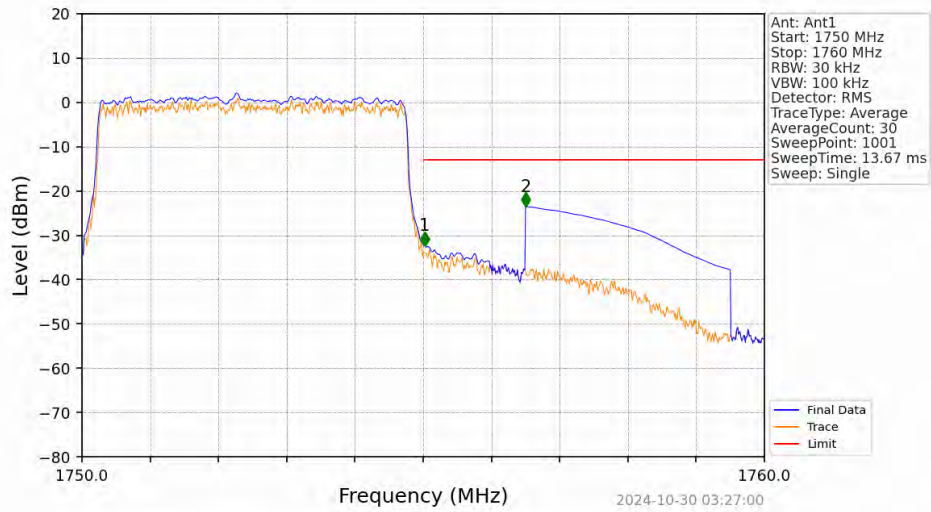
Band4 5MHz 16QAM HCH 1752.5MHz RB 1 0 NTV



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



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



6.2.4 B4_10MHz

