Appendix C

1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1710.7	1	0	21.71	<=30	Pass
			2	21.84	<=30	Pass
			5	21.57	<=30	Pass
		3	0	21.27	<=30	Pass
			2	21.18	<=30	Pass
			3	21.17	<=30	Pass
		6	0	20.26	<=30	Pass
	1732.5	1	0	20.96	<=30	Pass
			2	21.12	<=30	Pass
			5	20.96	<=30	Pass
		3	0	21.05	<=30	Pass
			2	21.04	<=30	Pass
			3	21.01	<=30	Pass
		6	0	20.04	<=30	Pass
	1754.3	1	0	21.56	<=30	Pass
			2	21.44	<=30	Pass
			5	21.34	<=30	Pass
		3	0	21.25	<=30	Pass
			2	21.41	<=30	Pass
			3	21.35	<=30	Pass
		6	0	20.31	<=30	Pass
16QAM	1710.7	1	0	20.13	<=30	Pass
			2	20.26	<=30	Pass
			5	20.13	<=30	Pass
		3	0	20.34	<=30	Pass
			2	20.34	<=30	Pass
			3	20.33	<=30	Pass
		6	0	19.28	<=30	Pass
	1732.5	1	0	20.02	<=30	Pass
			2	20.15	<=30	Pass
			5	20.01	<=30	Pass
		3	0	20.04	<=30	Pass
			2	20.05	<=30	Pass
			3	20.00	<=30	Pass
		6	0	19.15	<=30	Pass
	1754.3	1	0	20.32	<=30	Pass
			2	20.58	<=30	Pass
			5	20.43	<=30	Pass
		3	0	20.55	<=30	Pass
			2	20.48	<=30	Pass
			3	20.52	<=30	Pass
		6	0	19.46	<=30	Pass

1.2 B4_3MHz_EIRP

1.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1711.5	1	0	21.72	<=30	Pass
			7	21.98	<=30	Pass
			14	21.65	<=30	Pass
		8	0	20.66	<=30	Pass
			4	20.64	<=30	Pass
			7	20.63	<=30	Pass
		15	0	20.29	<=30	Pass
	1732.5	1	0	21.16	<=30	Pass
			7	21.34	<=30	Pass
			14	21.07	<=30	Pass
		8	0	20.04	<=30	Pass
			4	20.08	<=30	Pass
			7	20.20	<=30	Pass
		15	0	20.00	<=30	Pass
	1753.5	1	0	21.72	<=30	Pass
			7	21.97	<=30	Pass
			14	21.66	<=30	Pass
		8	0	20.68	<=30	Pass
			4	20.70	<=30	Pass
			7	20.68	<=30	Pass
		15	0	20.66	<=30	Pass
16QAM	1711.5	1	0	20.17	<=30	Pass
			7	20.41	<=30	Pass
			14	20.11	<=30	Pass
		8	0	19.16	<=30	Pass
			4	19.18	<=30	Pass
			7	19.16	<=30	Pass
		15	0	19.24	<=30	Pass
	1732.5	1	0	20.24	<=30	Pass
			7	20.46	<=30	Pass
			14	20.19	<=30	Pass
		8	0	19.19	<=30	Pass
			4	19.30	<=30	Pass
			7	19.21	<=30	Pass
		15	0	19.25	<=30	Pass
	1753.5	1	0	20.73	<=30	Pass
			7	20.92	<=30	Pass
			14	20.69	<=30	Pass
		8	0	19.62	<=30	Pass
			4	19.63	<=30	Pass
			7	19.58	<=30	Pass
		15	0	19.64	<=30	Pass

1.3 B4_5MHz_EIRP

1.3.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1712.5	1	0	21.68	<=30	Pass

			13	21.78	<=30	Pass
			24	21.61	<=30	Pass
		12	0	20.58	<=30	Pass
			6	20.64	<=30	Pass
			13	20.58	<=30	Pass
		25	0	20.60	<=30	Pass
	1732.5	1	0	21.42	<=30	Pass
			13	21.56	<=30	Pass
			24	21.45	<=30	Pass
		12	0	20.37	<=30	Pass
			6	20.48	<=30	Pass
			13	20.41	<=30	Pass
		25	0	20.37	<=30	Pass
	1752.5	1	0	21.66	<=30	Pass
			13	21.74	<=30	Pass
			24	21.63	<=30	Pass
		12	0	20.61	<=30	Pass
			6	20.70	<=30	Pass
			13	20.62	<=30	Pass
		25	0	20.63	<=30	Pass
16QAM	1712.5	1	0	20.99	<=30	Pass
			13	21.08	<=30	Pass
			24	20.93	<=30	Pass
		12	0	19.60	<=30	Pass
			6	19.66	<=30	Pass
			13	19.59	<=30	Pass
		25	0	19.56	<=30	Pass
	1732.5	1	0	20.49	<=30	Pass
			13	20.65	<=30	Pass
			24	20.57	<=30	Pass
		12	0	19.42	<=30	Pass
			6	19.52	<=30	Pass
			13	19.45	<=30	Pass
		25	0	19.42	<=30	Pass
	1752.5	1	0	20.76	<=30	Pass
			13	20.85	<=30	Pass
			24	20.74	<=30	Pass
		12	0	19.49	<=30	Pass
			6	19.58	<=30	Pass
			13	19.50	<=30	Pass
		25	0	19.59	<=30	Pass

1.4 B4_10MHz_EIRP

1.4.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1715	1	0	21.72	<=30	Pass
			25	21.82	<=30	Pass
			49	21.57	<=30	Pass
		25	0	20.58	<=30	Pass
			13	20.60	<=30	Pass
			25	20.54	<=30	Pass
		50	0	20.53	<=30	Pass
	1732.5	1	0	21.45	<=30	Pass
			25	21.62	<=30	Pass

			49	21.51	<=30	Pass
		25	0	20.37	<=30	Pass
			13	20.43	<=30	Pass
			25	20.45	<=30	Pass
		50	0	20.39	<=30	Pass
	1750	1	0	21.71	<=30	Pass
			25	21.88	<=30	Pass
			49	21.69	<=30	Pass
		25	0	20.64	<=30	Pass
			13	20.66	<=30	Pass
			25	20.62	<=30	Pass
		50	0	20.64	<=30	Pass
16QAM	1715	1	0	20.67	<=30	Pass
			25	20.76	<=30	Pass
			49	20.51	<=30	Pass
		25	0	19.60	<=30	Pass
			13	19.59	<=30	Pass
			25	19.53	<=30	Pass
		50	0	19.47	<=30	Pass
	1732.5	1	0	20.48	<=30	Pass
			25	20.59	<=30	Pass
			49	20.57	<=30	Pass
		25	0	19.26	<=30	Pass
			13	19.31	<=30	Pass
			25	19.32	<=30	Pass
		50	0	19.31	<=30	Pass
	1750	1	0	20.70	<=30	Pass
			25	20.83	<=30	Pass
			49	20.68	<=30	Pass
		25	0	19.64	<=30	Pass
			13	19.66	<=30	Pass
			25	19.62	<=30	Pass
		50	0	19.60	<=30	Pass

1.5 B4_15MHz_EIRP

1.5.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1717.5	1	0	21.66	<=30	Pass
			38	21.63	<=30	Pass
			74	21.35	<=30	Pass
		36	0	20.62	<=30	Pass
			18	20.64	<=30	Pass
			39	20.54	<=30	Pass
		75	0	20.62	<=30	Pass
	1732.5	1	0	21.38	<=30	Pass
			38	21.50	<=30	Pass
			74	21.46	<=30	Pass
		36	0	20.46	<=30	Pass
			18	20.49	<=30	Pass
			39	20.53	<=30	Pass
		75	0	20.49	<=30	Pass
	1747.5	1	0	21.60	<=30	Pass
			38	21.76	<=30	Pass
			74	21.62	<=30	Pass

		36	0	20.69	<=30	Pass
			18	20.76	<=30	Pass
			39	20.69	<=30	Pass
		75	0	20.71	<=30	Pass
16QAM	1717.5	1	0	20.67	<=30	Pass
			38	20.67	<=30	Pass
			74	20.40	<=30	Pass
		36	0	19.60	<=30	Pass
			18	19.60	<=30	Pass
			39	19.51	<=30	Pass
		75	0	19.53	<=30	Pass
	1732.5	1	0	20.42	<=30	Pass
			38	20.53	<=30	Pass
			74	20.52	<=30	Pass
		36	0	19.43	<=30	Pass
			18	19.47	<=30	Pass
			39	19.51	<=30	Pass
		75	0	19.41	<=30	Pass
	1747.5	1	0	20.58	<=30	Pass
			38	20.76	<=30	Pass
			74	20.63	<=30	Pass
		36	0	19.67	<=30	Pass
			18	19.72	<=30	Pass
			39	19.68	<=30	Pass
		75	0	19.66	<=30	Pass

1.6 B4_20MHz_EIRP

1.6.1 Test Result

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Limit	Verdict
		Size	Offset			
QPSK	1720	1	0	21.54	<=30	Pass
			50	21.74	<=30	Pass
			99	21.28	<=30	Pass
		50	0	20.49	<=30	Pass
			25	20.52	<=30	Pass
			50	20.36	<=30	Pass
		100	0	20.47	<=30	Pass
	1732.5	1	0	21.27	<=30	Pass
			50	21.60	<=30	Pass
			99	21.38	<=30	Pass
		50	0	20.38	<=30	Pass
			25	20.42	<=30	Pass
			50	20.42	<=30	Pass
		100	0	20.39	<=30	Pass
	1745	1	0	21.36	<=30	Pass
			50	21.81	<=30	Pass
			99	21.47	<=30	Pass
		50	0	20.54	<=30	Pass
			25	20.63	<=30	Pass
			50	20.60	<=30	Pass
		100	0	20.57	<=30	Pass
16QAM	1720	1	0	20.33	<=30	Pass
			50	20.50	<=30	Pass
			99	20.08	<=30	Pass
		50	0	19.45	<=30	Pass

			25	19.49	<=30	Pass
			50	19.34	<=30	Pass
		100	0	19.44	<=30	Pass
	1732.5	1	0	20.36	<=30	Pass
			50	20.71	<=30	Pass
			99	20.49	<=30	Pass
		50	0	19.33	<=30	Pass
			25	19.40	<=30	Pass
			50	19.39	<=30	Pass
		100	0	19.37	<=30	Pass
	1745	1	0	20.47	<=30	Pass
			50	20.91	<=30	Pass
			99	20.62	<=30	Pass
		50	0	19.53	<=30	Pass
			25	19.60	<=30	Pass
			50	19.57	<=30	Pass
		100	0	19.51	<=30	Pass

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	5.307	0.0031	-2.5 to 2.5	Pass
					3.85	6.824	0.0040	-2.5 to 2.5	Pass
					4.43	9.742	0.0057	-2.5 to 2.5	Pass
				-30	3.85	7.038	0.0041	-2.5 to 2.5	Pass
				-20	3.85	1.631	0.0010	-2.5 to 2.5	Pass
				-10	3.85	4.334	0.0025	-2.5 to 2.5	Pass
				0	3.85	2.503	0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.273	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-3.920	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-29.826	-0.0172	-2.5 to 2.5	Pass
					3.85	-6.280	-0.0036	-2.5 to 2.5	Pass
					4.43	-3.905	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-3.433	-0.0020	-2.5 to 2.5	Pass
				40	3.85	4.020	0.0023	-2.5 to 2.5	Pass
				50	3.85	0.887	0.0005	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	1.402	0.0008	-2.5 to 2.5	Pass
					3.85	-5.636	-0.0032	-2.5 to 2.5	Pass
					4.43	-2.632	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-5.379	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	0.958	0.0005	-2.5 to 2.5	Pass
				0	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass

				10	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				30	3.85	-6.137	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-5.722	-0.0033	-2.5 to 2.5	Pass
				50	3.85	2.289	0.0013	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-2.732	-0.0016	-2.5 to 2.5	Pass
					3.85	-15.593	-0.0091	-2.5 to 2.5	Pass
					4.43	-3.061	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-10.386	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-8.469	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	1.287	0.0008	-2.5 to 2.5	Pass
				0	3.85	-12.860	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-9.198	-0.0054	-2.5 to 2.5	Pass
				30	3.85	3.004	0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-2.246	-0.0013	-2.5 to 2.5	Pass
					3.85	-9.799	-0.0057	-2.5 to 2.5	Pass
					4.43	-7.753	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-7.567	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-6.609	-0.0038	-2.5 to 2.5	Pass
				10	3.85	3.705	0.0021	-2.5 to 2.5	Pass
				30	3.85	2.990	0.0017	-2.5 to 2.5	Pass
				40	3.85	-3.476	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-8.941	-0.0052	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	0.916	0.0005	-2.5 to 2.5	Pass
					3.85	-2.761	-0.0016	-2.5 to 2.5	Pass
					4.43	5.465	0.0031	-2.5 to 2.5	Pass
				-30	3.85	3.090	0.0018	-2.5 to 2.5	Pass
				-20	3.85	-3.819	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-3.548	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-6.838	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-8.869	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-7.696	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0040	-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	0.587	0.0003	-2.5 to 2.5	Pass
					3.85	10.700	0.0063	-2.5 to 2.5	Pass
					4.43	13.804	0.0081	-2.5 to 2.5	Pass
				-30	3.85	6.094	0.0036	-2.5 to 2.5	Pass
				-20	3.85	5.822	0.0034	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-5.407	-0.0032	-2.5 to 2.5	Pass
				30	3.85	-4.592	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-8.440	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	5.536	0.0032	-2.5 to 2.5	Pass

					3.85	0.830	0.0005	-2.5 to 2.5	Pass
					4.43	-10.757	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-3.204	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-8.826	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				50	3.85	0.501	0.0003	-2.5 to 2.5	Pass
	1753.5	15	0		3.27	2.046	0.0012	-2.5 to 2.5	Pass
				20	3.85	-11.959	-0.0068	-2.5 to 2.5	Pass
					4.43	-2.346	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-8.111	-0.0046	-2.5 to 2.5	Pass
				-10	3.85	-6.824	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-5.393	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-4.306	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-10.715	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-6.337	-0.0036	-2.5 to 2.5	Pass
16QAM	1711.5	15	0		3.27	-2.975	-0.0017	-2.5 to 2.5	Pass
				20	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
					4.43	-9.556	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-9.456	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
				0	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.705	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-8.111	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-7.911	-0.0046	-2.5 to 2.5	Pass
	1732.5	15	0		3.27	-0.129	-0.0001	-2.5 to 2.5	Pass
				20	3.85	-5.736	-0.0033	-2.5 to 2.5	Pass
					4.43	-12.002	-0.0069	-2.5 to 2.5	Pass
				-30	3.85	-8.898	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-8.512	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-5.279	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-11.029	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-11.315	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-4.492	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
	1753.5	15	0		3.27	-7.782	-0.0044	-2.5 to 2.5	Pass
				20	3.85	4.535	0.0026	-2.5 to 2.5	Pass
					4.43	3.347	0.0019	-2.5 to 2.5	Pass
				-30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-0.958	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-3.390	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-10.958	-0.0062	-2.5 to 2.5	Pass
				50	3.85	4.578	0.0026	-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	-2.675	-0.0016	-2.5 to 2.5	Pass
					3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
					4.43	-5.422	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-0.286	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	2.232	0.0013	-2.5 to 2.5	Pass
				-10	3.85	-7.210	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-7.753	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-7.439	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-6.208	-0.0036	-2.5 to 2.5	Pass
				50	3.85	-8.183	-0.0048	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-2.089	-0.0012	-2.5 to 2.5	Pass
					3.85	-6.881	-0.0040	-2.5 to 2.5	Pass
					4.43	-2.475	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-6.337	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-7.253	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-10.657	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-10.057	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-4.506	-0.0026	-2.5 to 2.5	Pass
					3.85	-10.958	-0.0063	-2.5 to 2.5	Pass
					4.43	-9.727	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-3.963	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-5.636	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	1.645	0.0009	-2.5 to 2.5	Pass
				0	3.85	-2.403	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-8.712	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-7.195	-0.0041	-2.5 to 2.5	Pass
				40	3.85	1.659	0.0009	-2.5 to 2.5	Pass
				50	3.85	-12.259	-0.0070	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-2.389	-0.0014	-2.5 to 2.5	Pass
					3.85	2.947	0.0017	-2.5 to 2.5	Pass
					4.43	-8.955	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-0.772	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-4.005	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-5.751	-0.0034	-2.5 to 2.5	Pass
				10	3.85	2.661	0.0016	-2.5 to 2.5	Pass
				30	3.85	1.645	0.0010	-2.5 to 2.5	Pass
				40	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				50	3.85	0.501	0.0003	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-5.922	-0.0034	-2.5 to 2.5	Pass
					3.85	-5.450	-0.0031	-2.5 to 2.5	Pass
					4.43	-6.294	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	2.589	0.0015	-2.5 to 2.5	Pass
				-20	3.85	-11.187	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-7.396	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass

				50	3.85	-8.326	-0.0048	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-6.695	-0.0038	-2.5 to 2.5	Pass
					3.85	-11.888	-0.0068	-2.5 to 2.5	Pass
					4.43	-7.825	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-7.882	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0005	-2.5 to 2.5	Pass
				0	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-5.293	-0.0030	-2.5 to 2.5	Pass
				30	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				40	3.85	-8.168	-0.0047	-2.5 to 2.5	Pass
				50	3.85	6.294	0.0036	-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	-7.925	-0.0046	-2.5 to 2.5	Pass
					3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
					4.43	-7.253	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-5.493	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-7.052	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-3.119	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-4.921	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-7.052	-0.0041	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-2.875	-0.0017	-2.5 to 2.5	Pass
					3.85	-4.978	-0.0029	-2.5 to 2.5	Pass
					4.43	-2.732	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-10.014	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-5.279	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-7.653	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-8.740	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-7.868	-0.0045	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-5.164	-0.0030	-2.5 to 2.5	Pass
					3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
					4.43	-5.293	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-5.107	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-10.729	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-7.281	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-4.349	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-5.937	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-11.473	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-11.659	-0.0067	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-4.892	-0.0029	-2.5 to 2.5	Pass
					3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
					4.43	-4.234	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass

				-20	3.85	-6.337	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-5.121	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-2.532	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-2.704	-0.0016	-2.5 to 2.5	Pass
				50	3.85	2.532	0.0015	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-2.804	-0.0016	-2.5 to 2.5	Pass
					3.85	-5.150	-0.0030	-2.5 to 2.5	Pass
					4.43	1.373	0.0008	-2.5 to 2.5	Pass
				-30	3.85	-2.017	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-10.114	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-2.289	-0.0013	-2.5 to 2.5	Pass
				0	3.85	2.275	0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.386	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				40	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-3.390	-0.0020	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-11.816	-0.0068	-2.5 to 2.5	Pass
					3.85	-11.373	-0.0065	-2.5 to 2.5	Pass
					4.43	-5.736	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-9.956	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-7.739	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	-1.974	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-13.375	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-9.084	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-8.554	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-8.283	-0.0047	-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	-6.652	-0.0039	-2.5 to 2.5	Pass
					3.85	-11.072	-0.0064	-2.5 to 2.5	Pass
					4.43	-6.680	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-9.742	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-1.130	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-9.785	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-6.680	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-5.450	-0.0032	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.980	-0.0035	-2.5 to 2.5	Pass
					3.85	-6.895	-0.0040	-2.5 to 2.5	Pass
					4.43	-9.670	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-6.223	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-6.008	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-4.606	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-11.072	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0047	-2.5 to 2.5	Pass

				40	3.85	-7.195	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-7.496	-0.0043	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-5.794	-0.0033	-2.5 to 2.5	Pass
					3.85	-6.895	-0.0039	-2.5 to 2.5	Pass
					4.43	-10.700	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-9.656	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-5.050	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-9.642	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-10.157	-0.0058	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-0.014	0.0000	-2.5 to 2.5	Pass
					3.85	-5.207	-0.0030	-2.5 to 2.5	Pass
					4.43	-5.093	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-6.666	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	2.432	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-8.254	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-6.595	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-5.436	-0.0032	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.236	-0.0030	-2.5 to 2.5	Pass
					3.85	-8.798	-0.0051	-2.5 to 2.5	Pass
					4.43	-4.034	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-7.067	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-9.027	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-4.191	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-5.808	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-5.465	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-7.954	-0.0046	-2.5 to 2.5	Pass
				50	3.85	-4.234	-0.0024	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-4.191	-0.0024	-2.5 to 2.5	Pass
					3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
					4.43	-7.939	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-8.426	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-8.812	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-5.980	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-3.548	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-10.514	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-5.307	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-1.445	-0.0008	-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	-8.168	-0.0047	-2.5 to 2.5	Pass
					3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
					4.43	-4.978	-0.0029	-2.5 to 2.5	Pass

				-30	3.85	-6.537	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-6.652	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-4.463	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-6.194	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-6.852	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-3.662	-0.0021	-2.5 to 2.5	Pass
					3.85	-4.735	-0.0027	-2.5 to 2.5	Pass
					4.43	-8.125	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-8.798	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-6.294	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-4.020	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-6.280	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-4.663	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-1.416	-0.0008	-2.5 to 2.5	Pass
					3.85	-6.680	-0.0038	-2.5 to 2.5	Pass
					4.43	-6.709	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-5.136	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-5.064	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-7.453	-0.0043	-2.5 to 2.5	Pass
					3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
					4.43	-10.314	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-4.735	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-7.353	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-11.659	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-7.410	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-5.336	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-4.034	-0.0023	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-5.822	-0.0034	-2.5 to 2.5	Pass
					3.85	-7.582	-0.0044	-2.5 to 2.5	Pass
					4.43	-2.546	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-6.480	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-6.995	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				10	3.85	1.431	0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				40	3.85	2.432	0.0014	-2.5 to 2.5	Pass
				50	3.85	-4.106	-0.0024	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-5.851	-0.0034	-2.5 to 2.5	Pass
					3.85	-4.034	-0.0023	-2.5 to 2.5	Pass
					4.43	-1.688	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-4.706	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-6.609	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass

				10	3.85	-8.326	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-2.861	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0005	-2.5 to 2.5	Pass

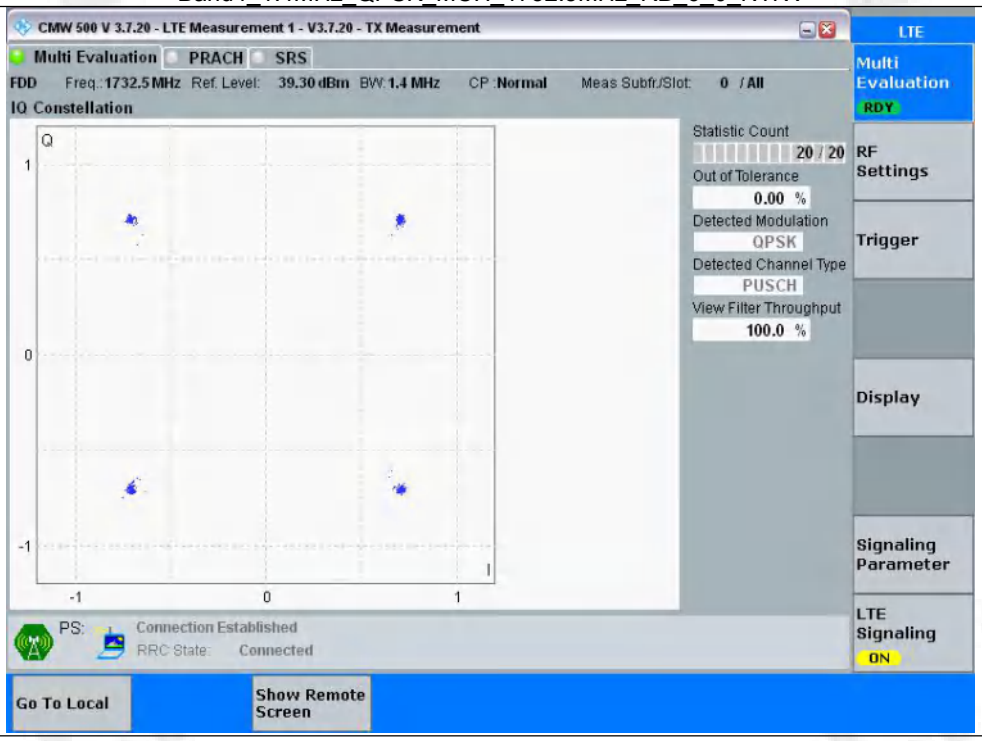
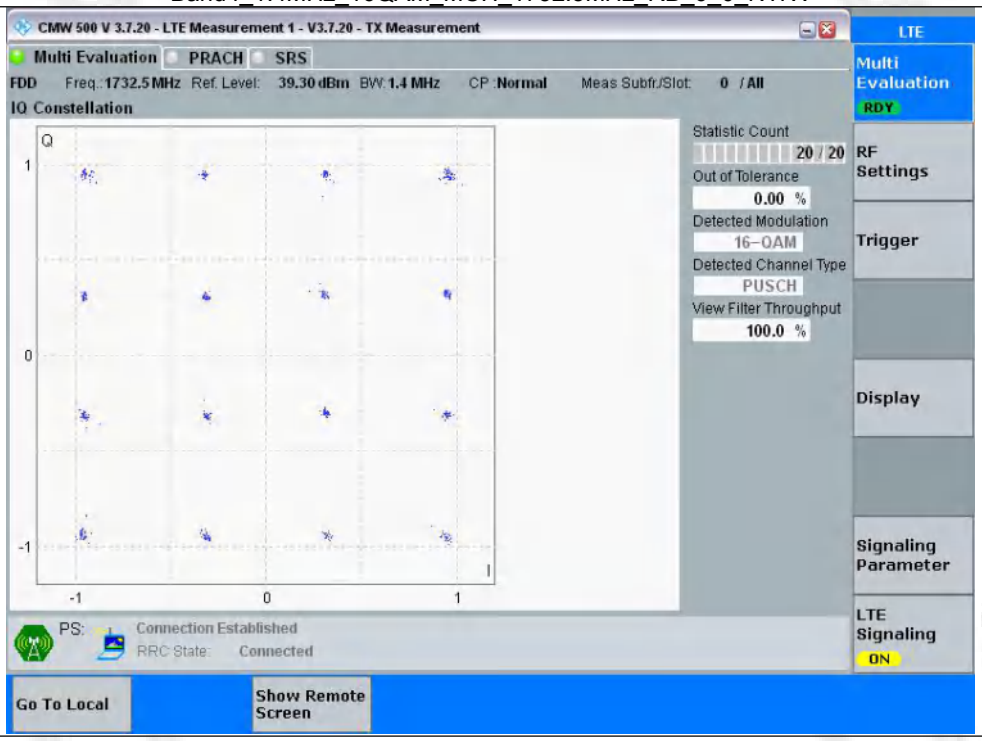
3. Modulation Characteristics

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

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV


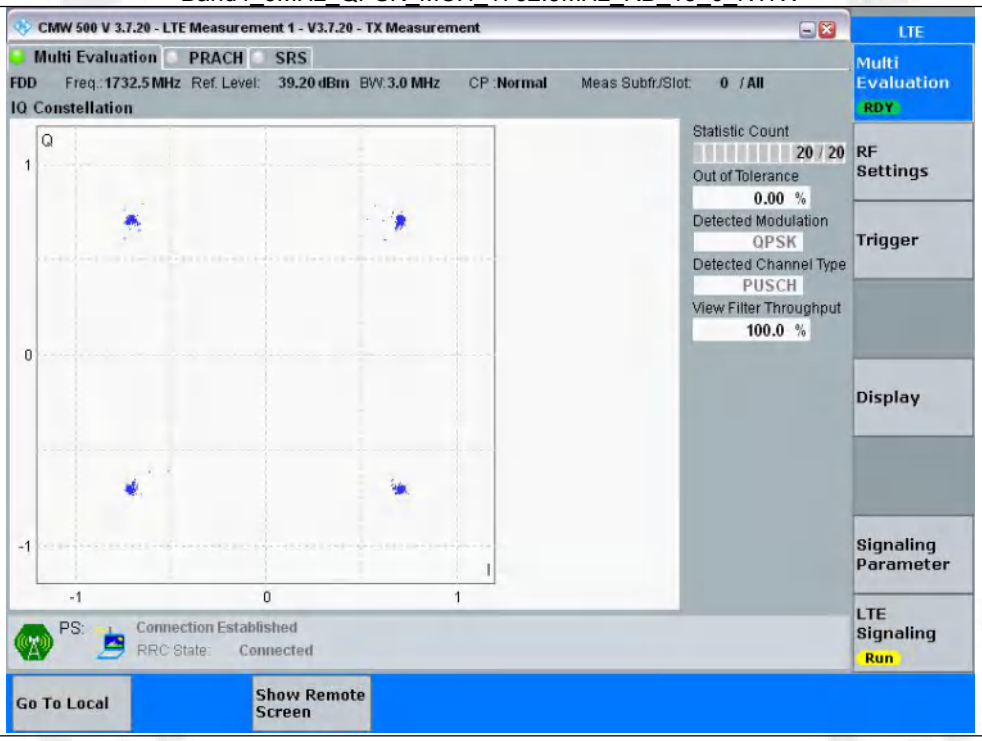
3.2 B4_3MHz

3.2.1 Test Result

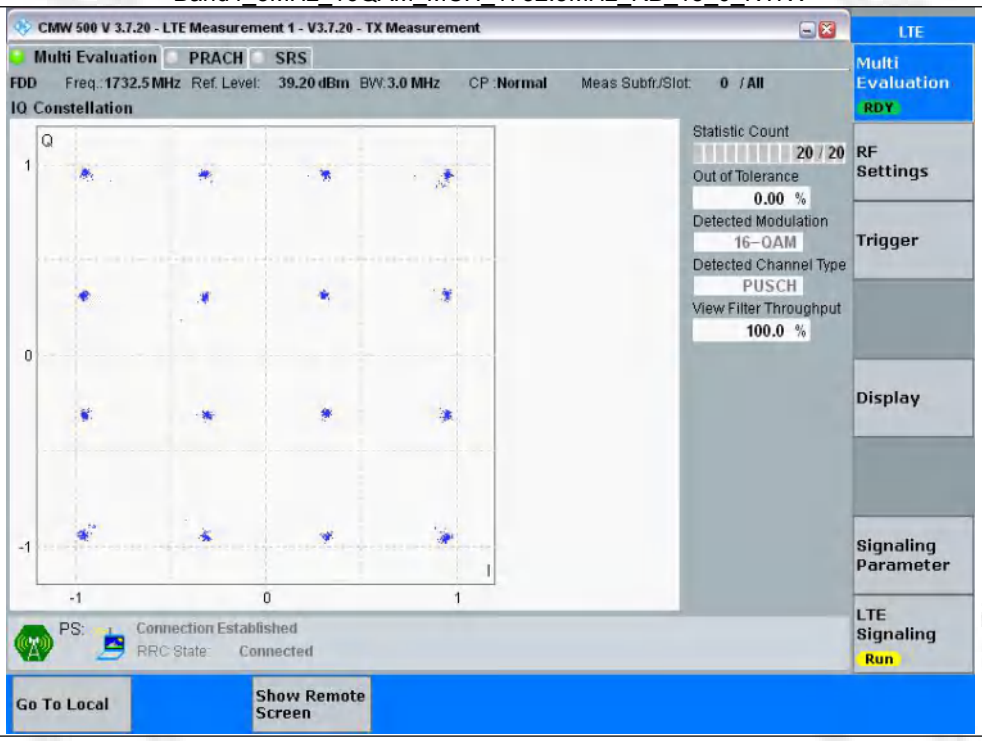
Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



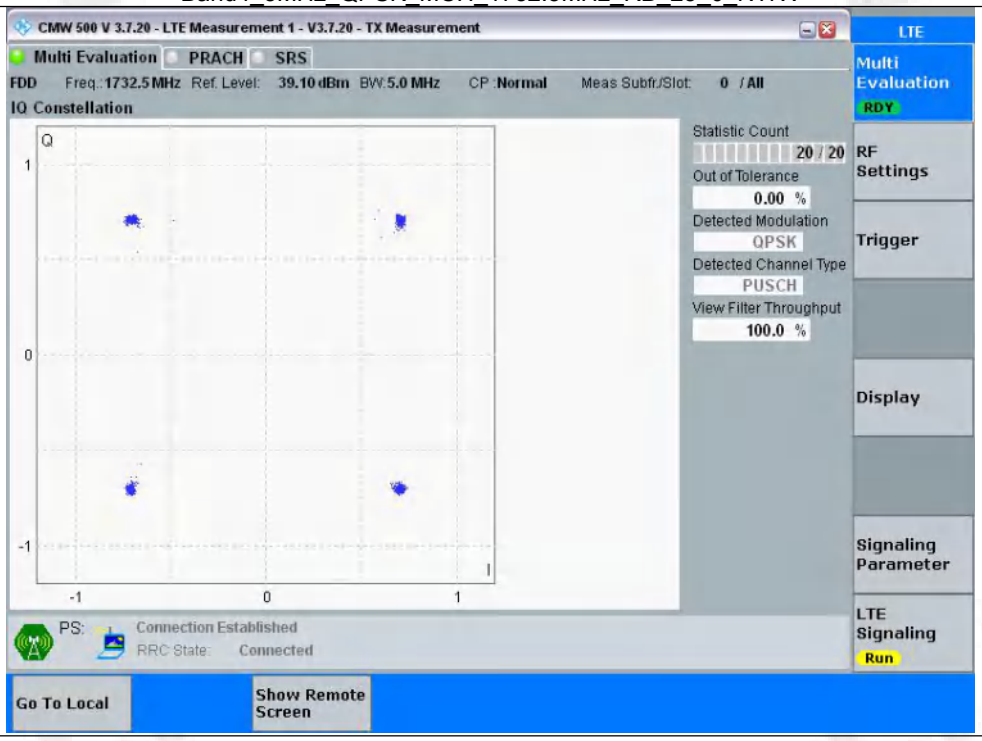
3.3 B4_5MHz

3.3.1 Test Result

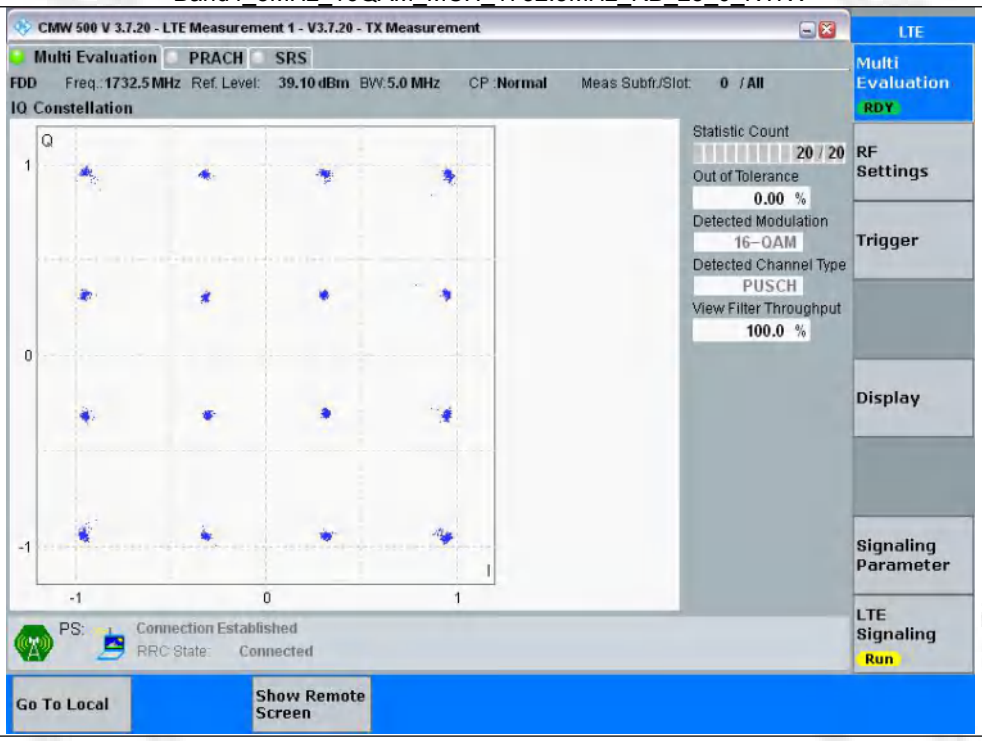
Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



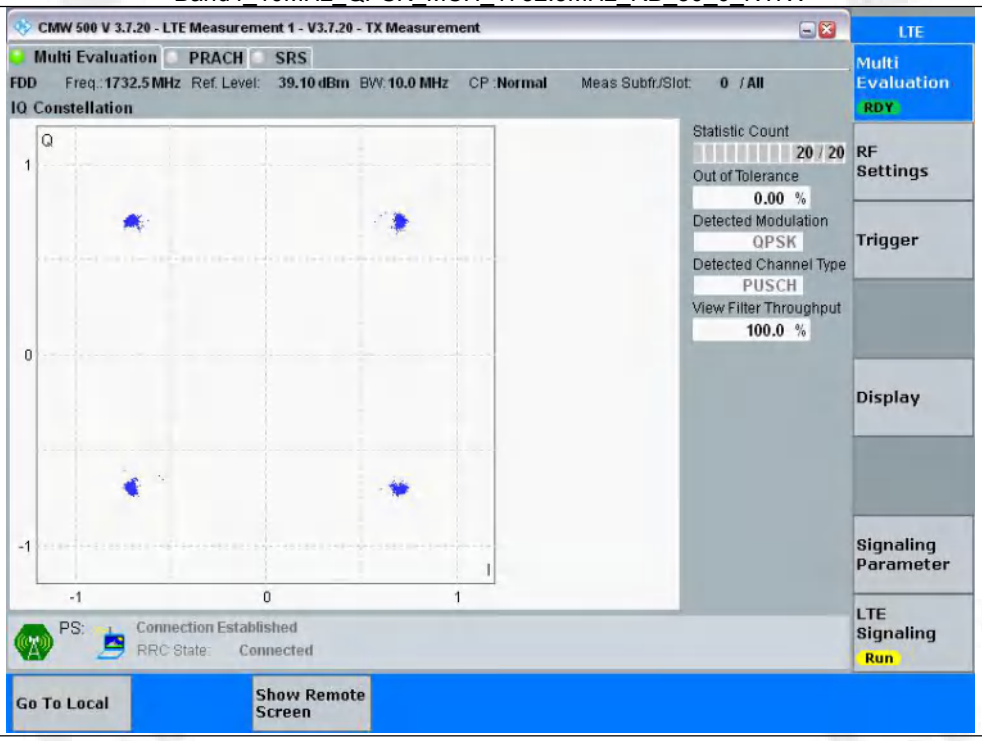
3.4 B4_10MHz

3.4.1 Test Result

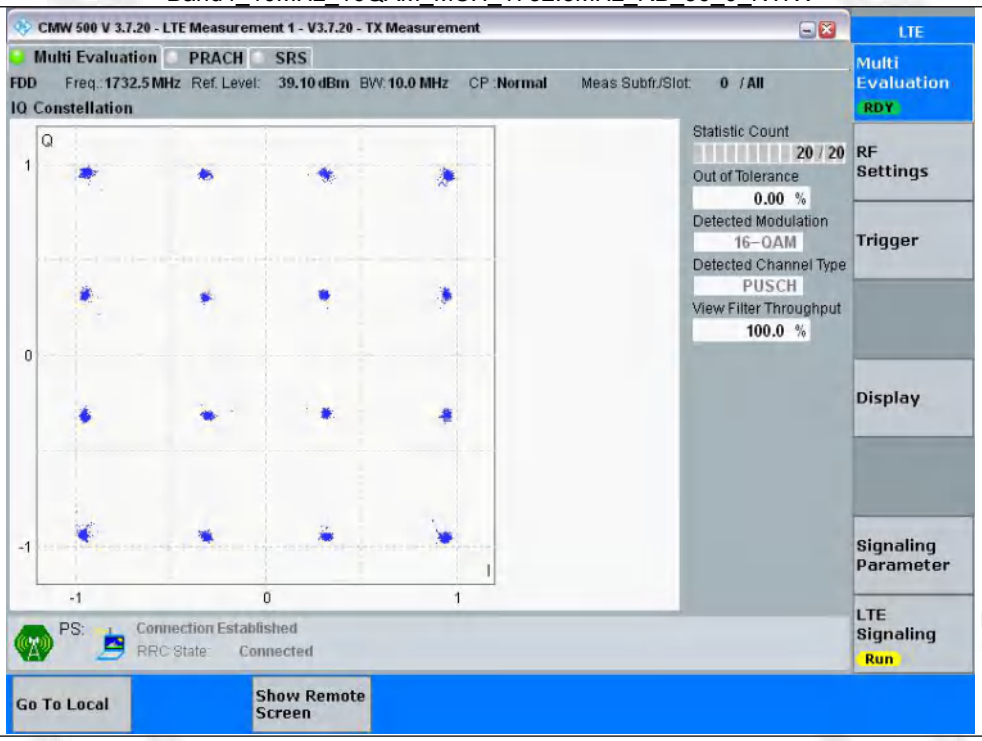
Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



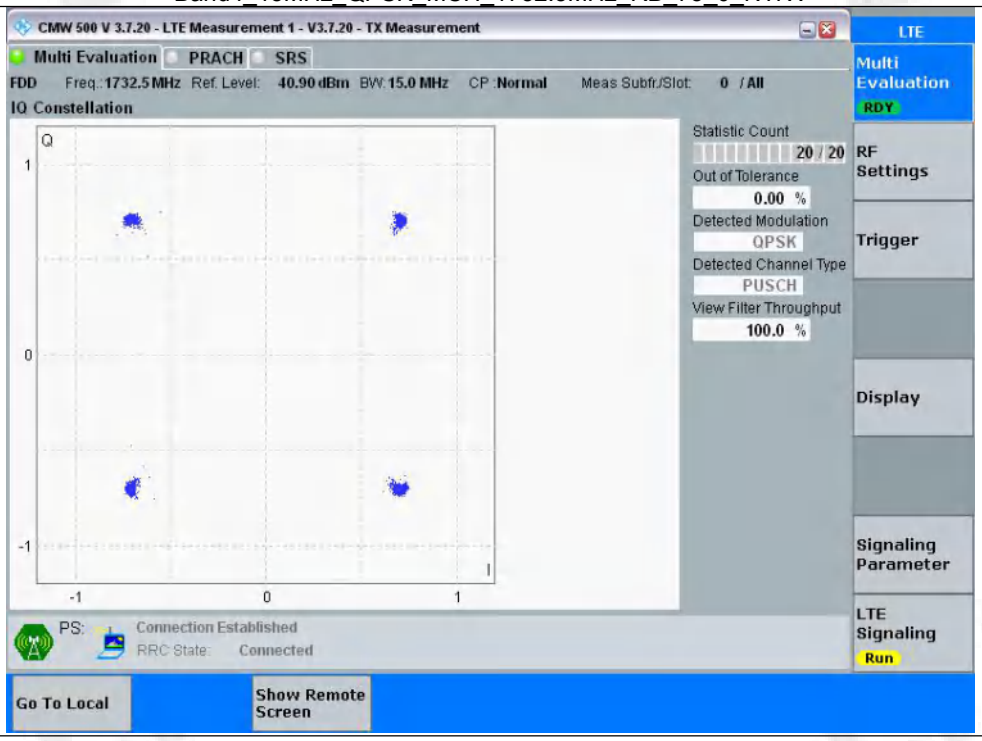
3.5 B4_15MHz

3.5.1 Test Result

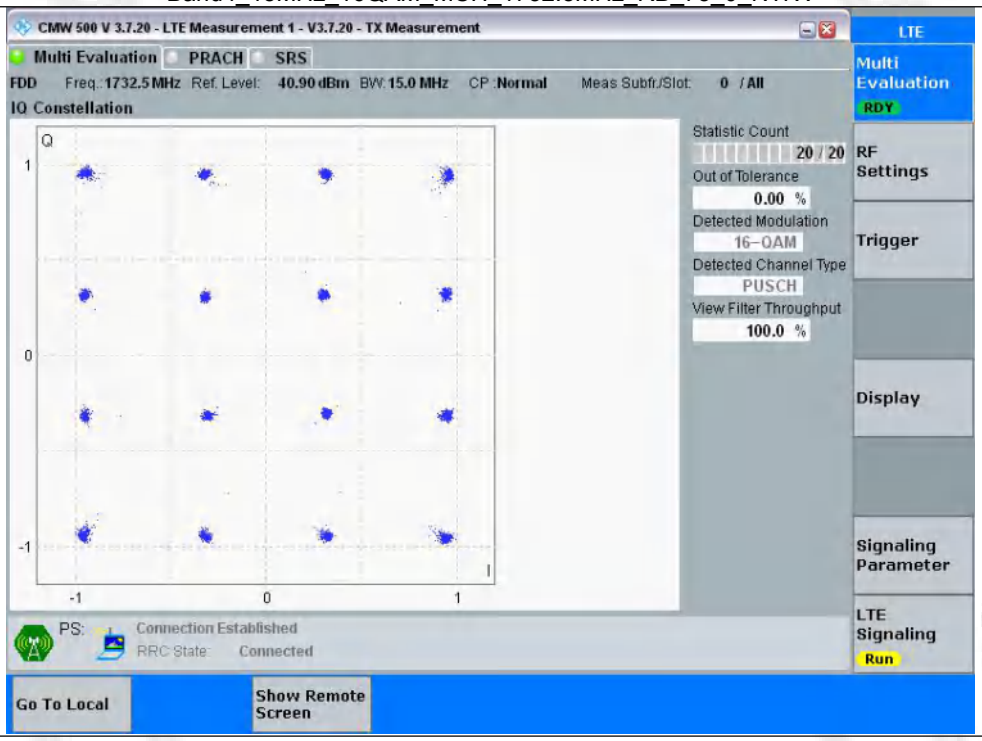
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.5.2 Test Graph

Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



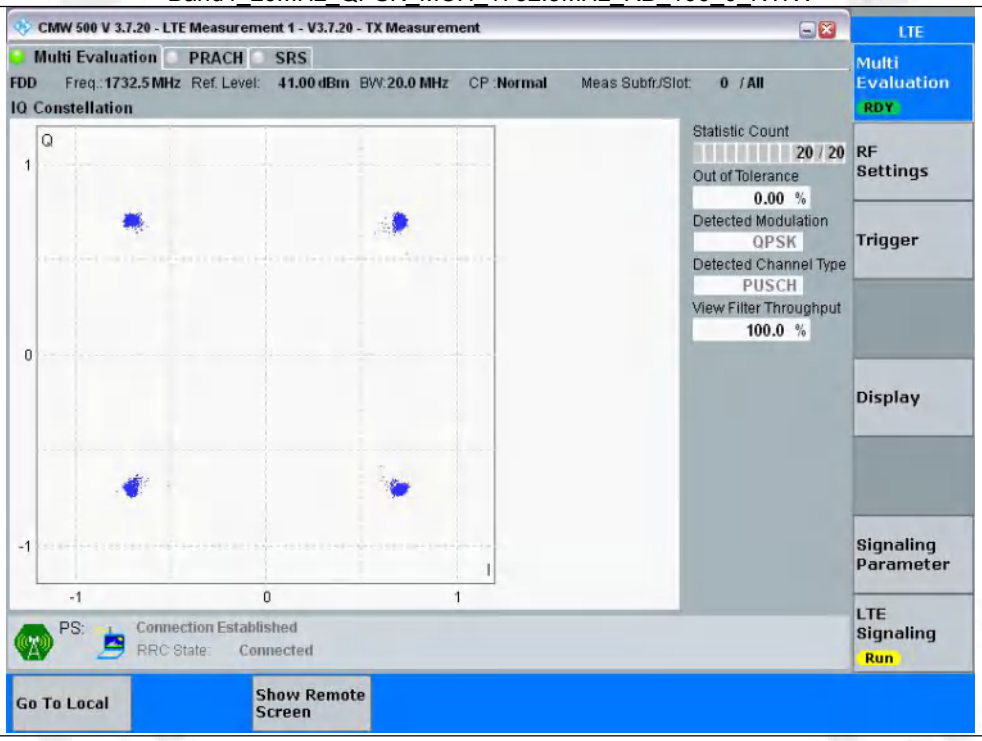
3.6 B4_20MHz

3.6.1 Test Result

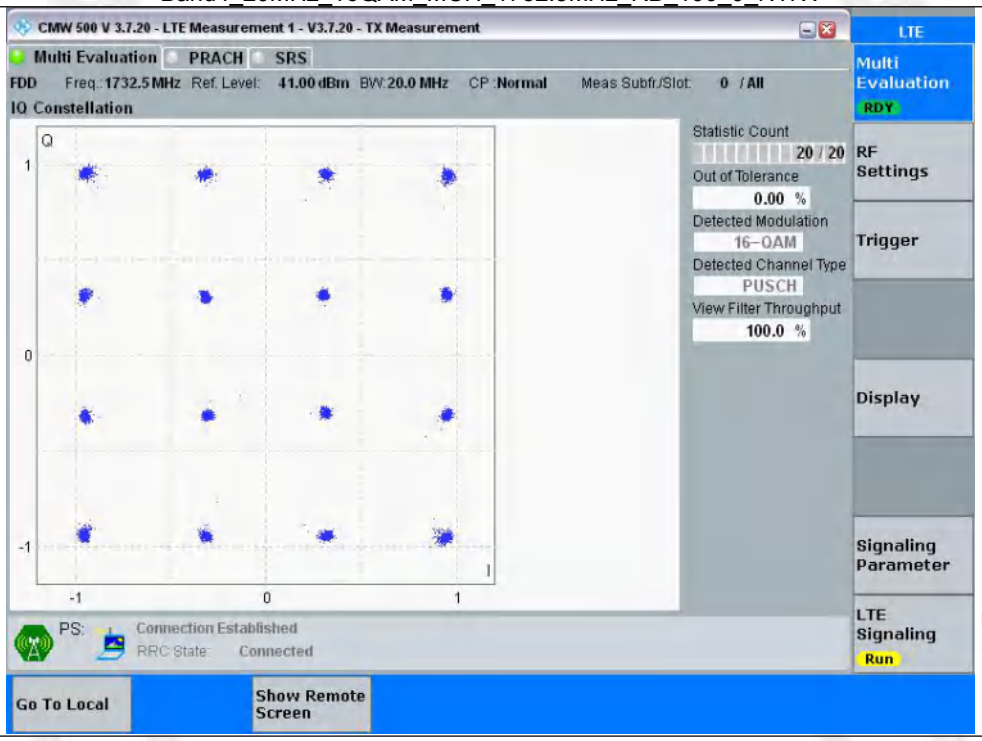
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.6.2 Test Graph

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



4. 99% & 26dB Bandwidth

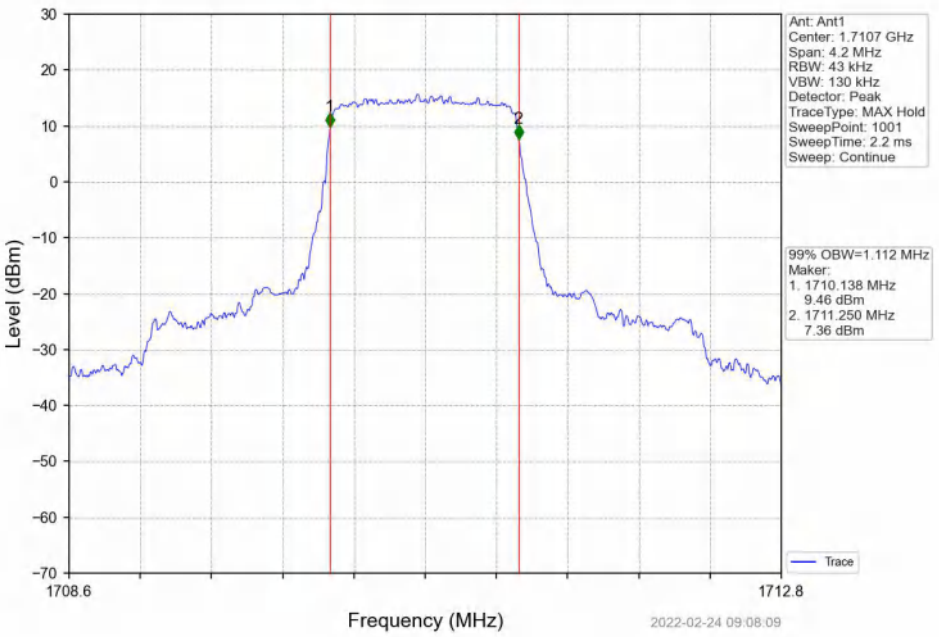
4.1 Band4_OBW

4.1.1 Test Result

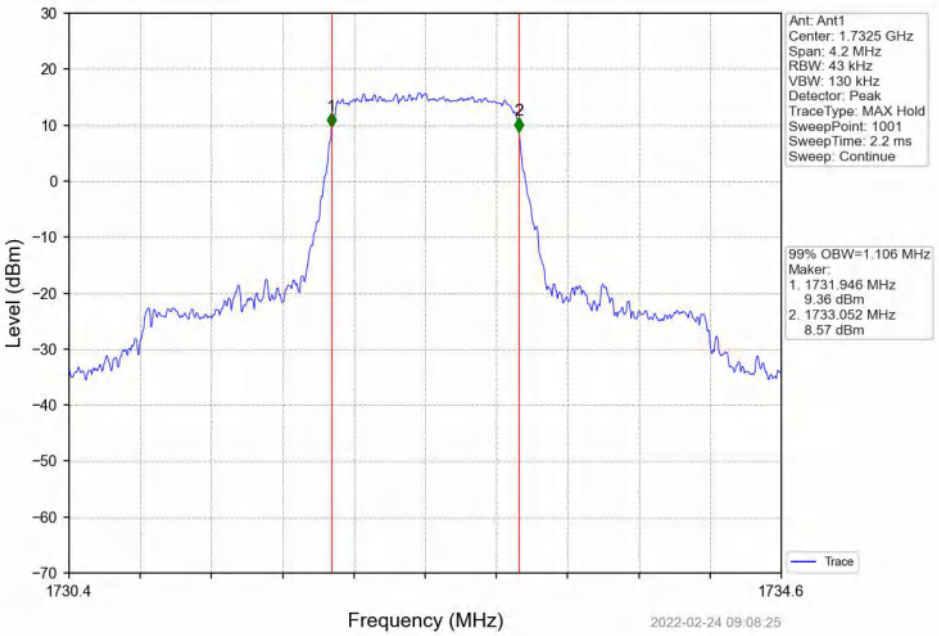
Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.112	Pass
		1732.5	6	0	1.106	Pass
		1754.3	6	0	1.108	Pass
	16QAM	1710.7	6	0	1.113	Pass
		1732.5	6	0	1.111	Pass
		1754.3	6	0	1.116	Pass
3	QPSK	1711.5	15	0	2.731	Pass
		1732.5	15	0	2.740	Pass
		1753.5	15	0	2.724	Pass
	16QAM	1711.5	15	0	2.725	Pass
		1732.5	15	0	2.718	Pass
		1753.5	15	0	2.722	Pass
5	QPSK	1712.5	25	0	4.565	Pass
		1732.5	25	0	4.565	Pass
		1752.5	25	0	4.575	Pass
	16QAM	1712.5	25	0	4.605	Pass
		1732.5	25	0	4.574	Pass
		1752.5	25	0	4.562	Pass
10	QPSK	1715	50	0	9.095	Pass
		1732.5	50	0	9.058	Pass
		1750	50	0	9.093	Pass
	16QAM	1715	50	0	9.076	Pass
		1732.5	50	0	9.079	Pass
		1750	50	0	9.069	Pass
15	QPSK	1717.5	75	0	9.291	Pass
		1732.5	75	0	13.602	Pass
		1747.5	75	0	13.617	Pass
	16QAM	1717.5	75	0	13.612	Pass
		1732.5	75	0	13.601	Pass
		1747.5	75	0	13.674	Pass
20	QPSK	1720	100	0	18.128	Pass
		1732.5	100	0	18.085	Pass
		1745	100	0	18.187	Pass
	16QAM	1720	100	0	18.118	Pass
		1732.5	100	0	18.140	Pass
		1745	100	0	18.157	Pass

4.1.2 Test Graph

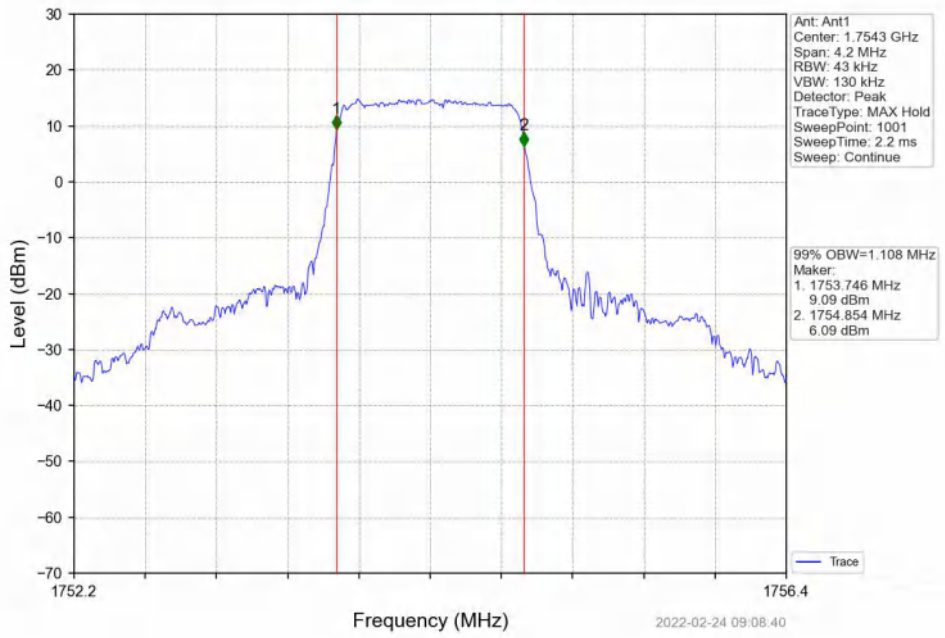
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



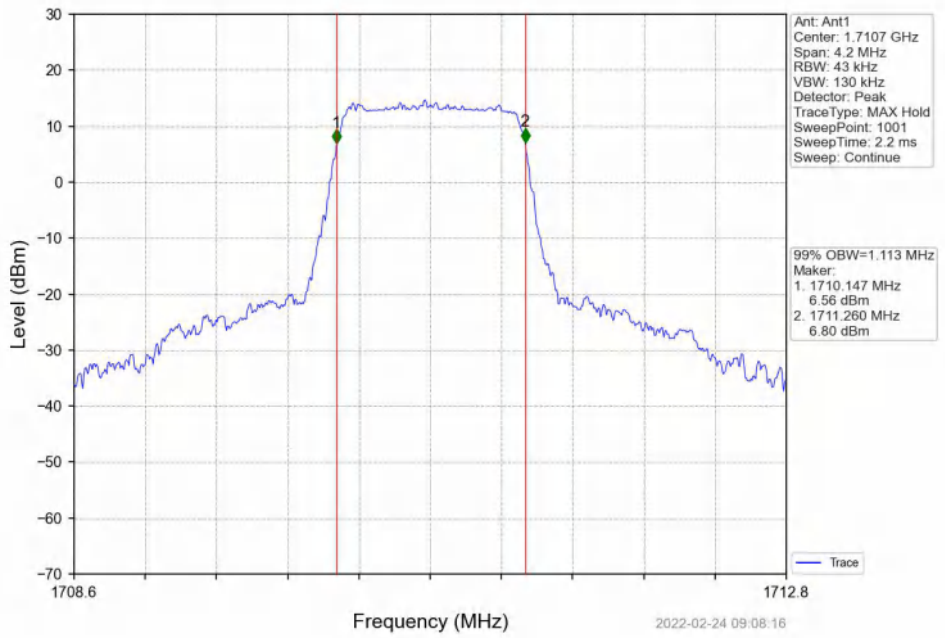
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



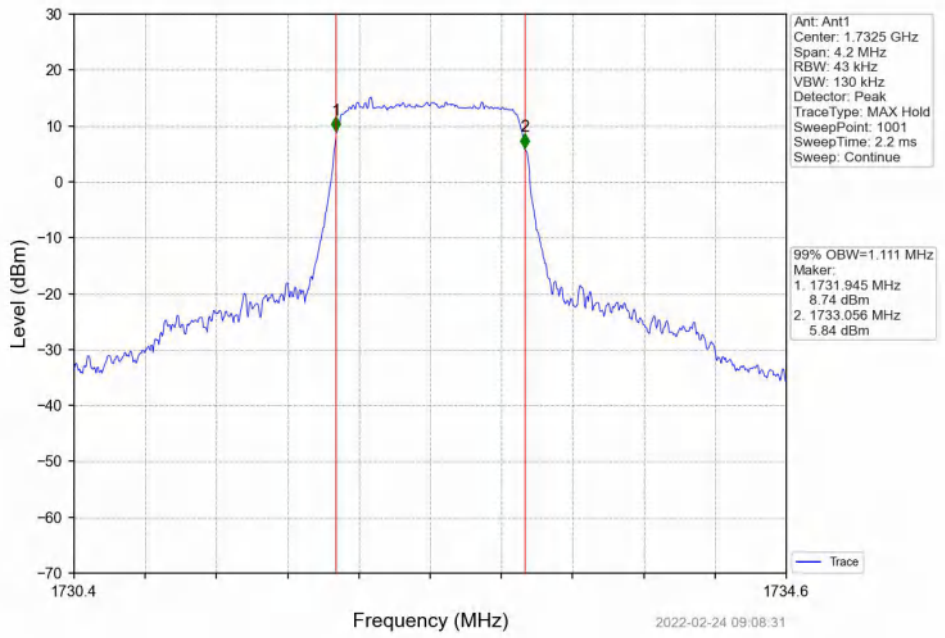
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



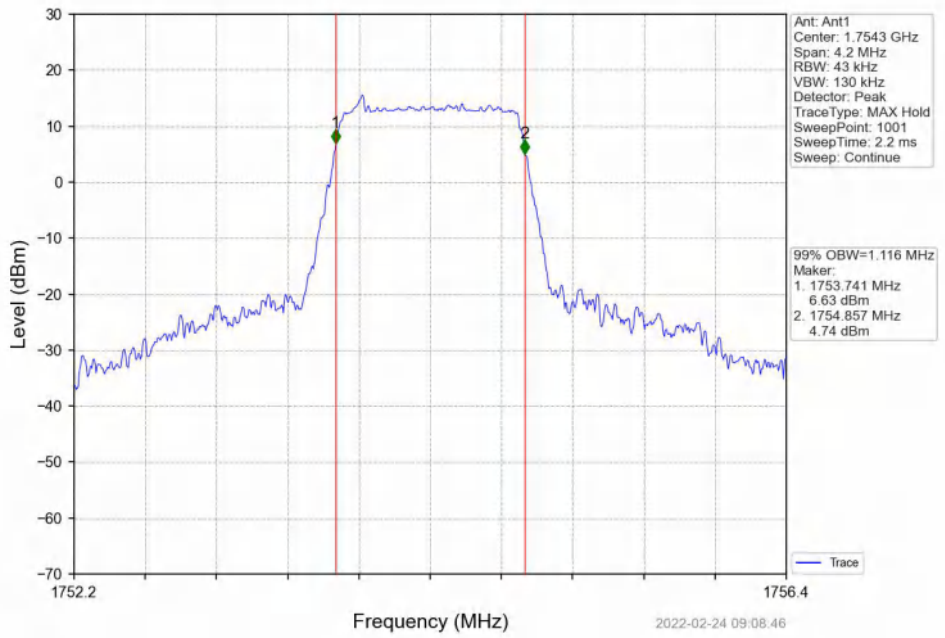
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



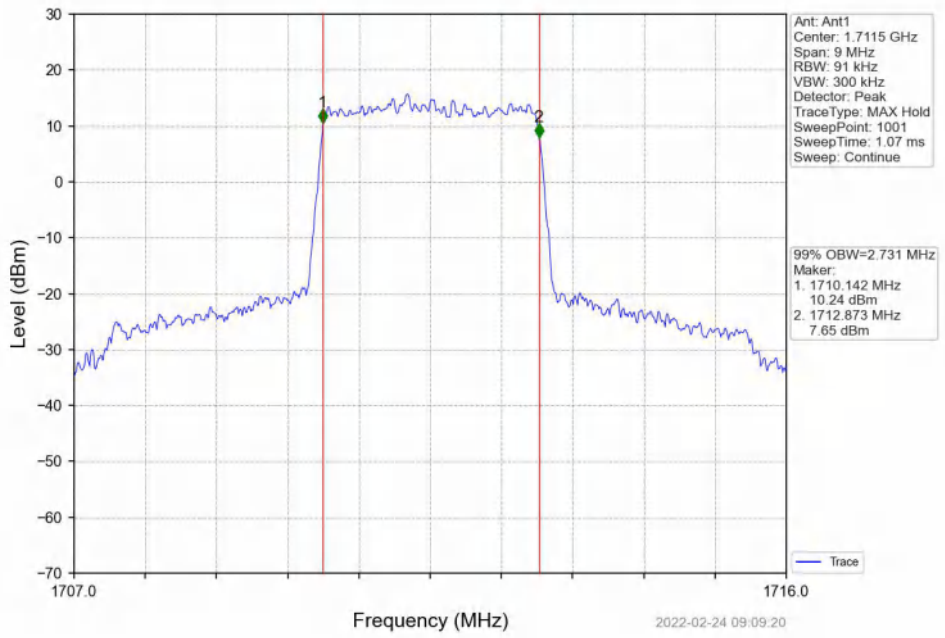
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



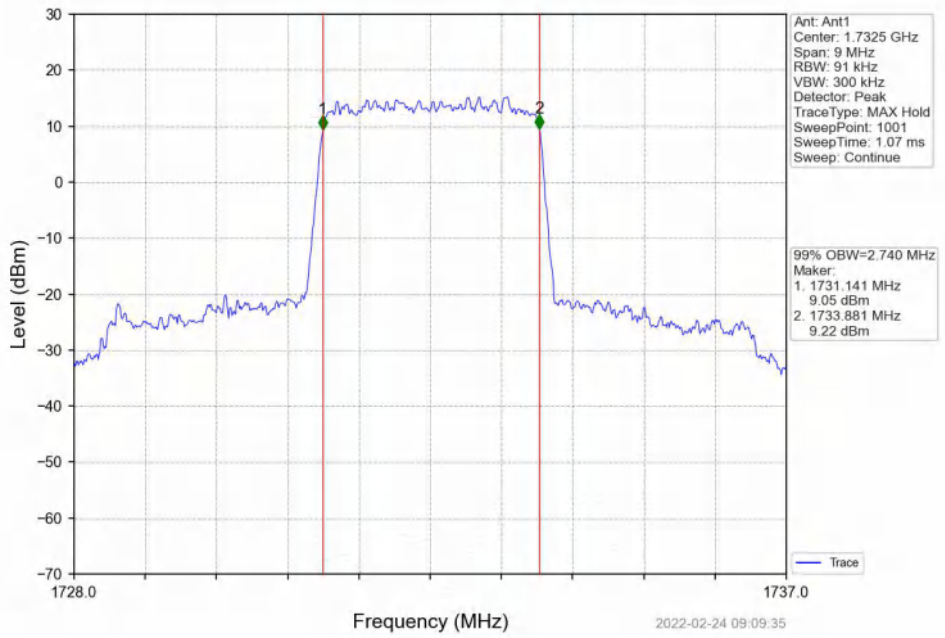
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



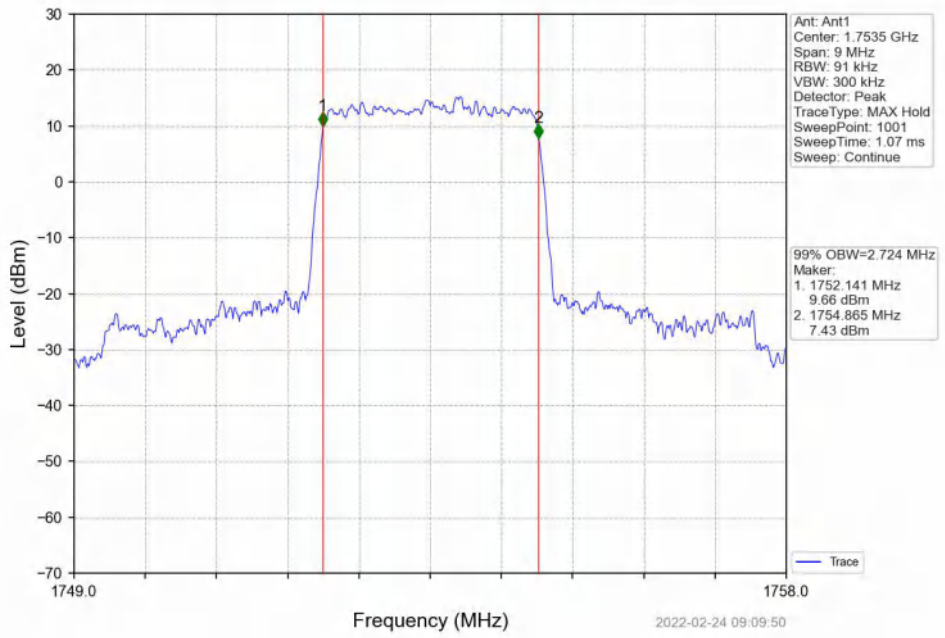
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



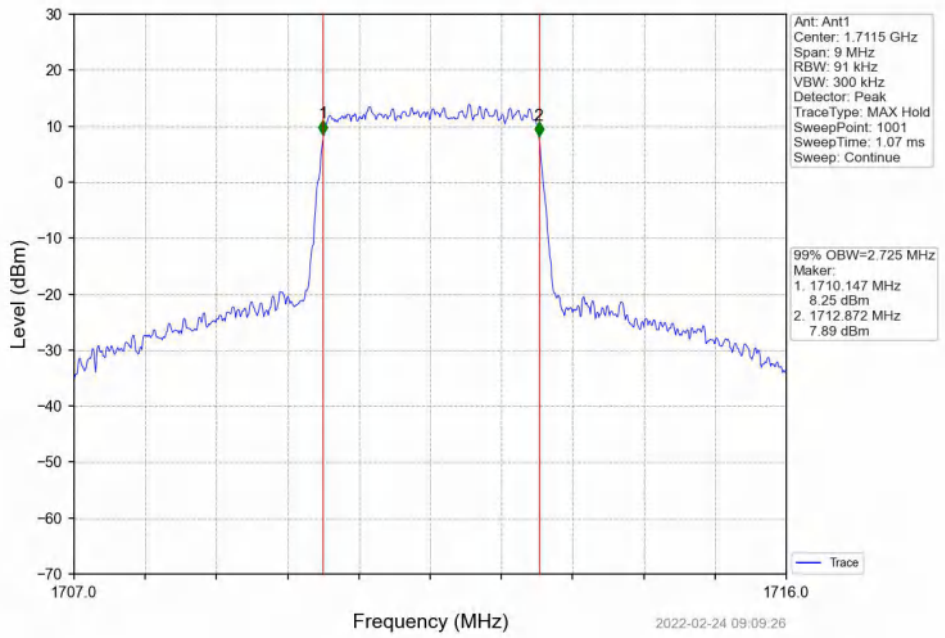
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



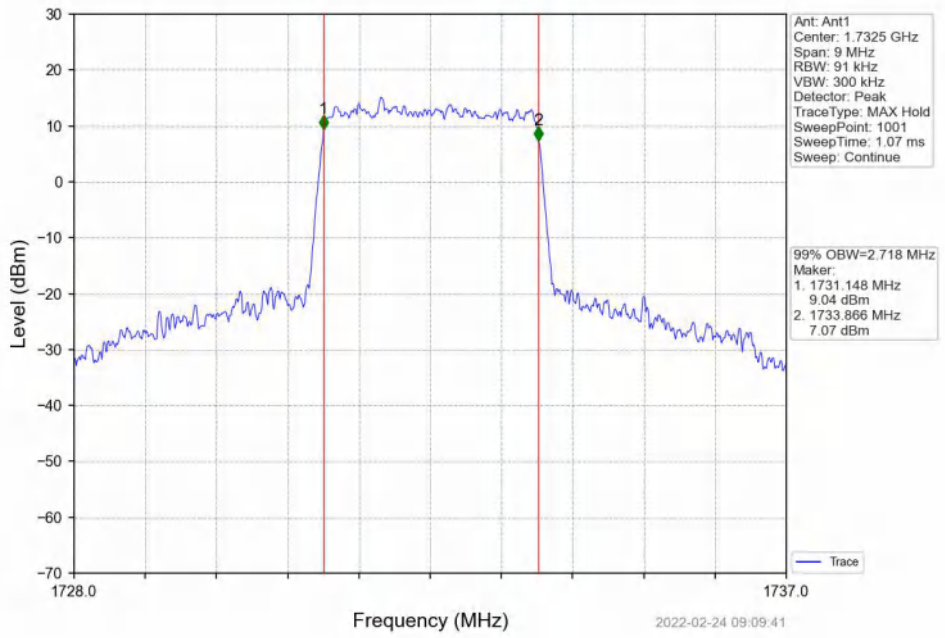
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



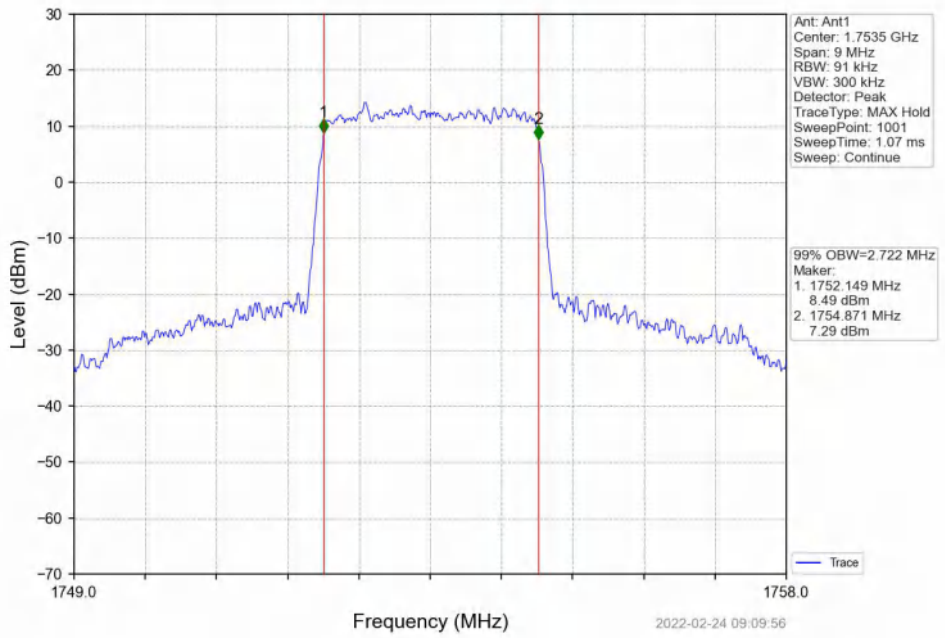
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



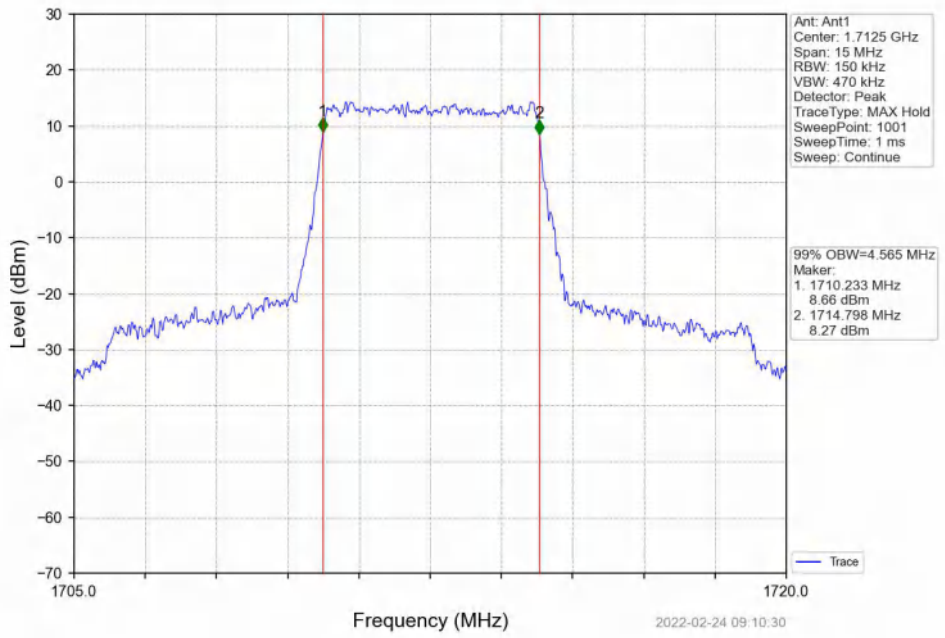
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



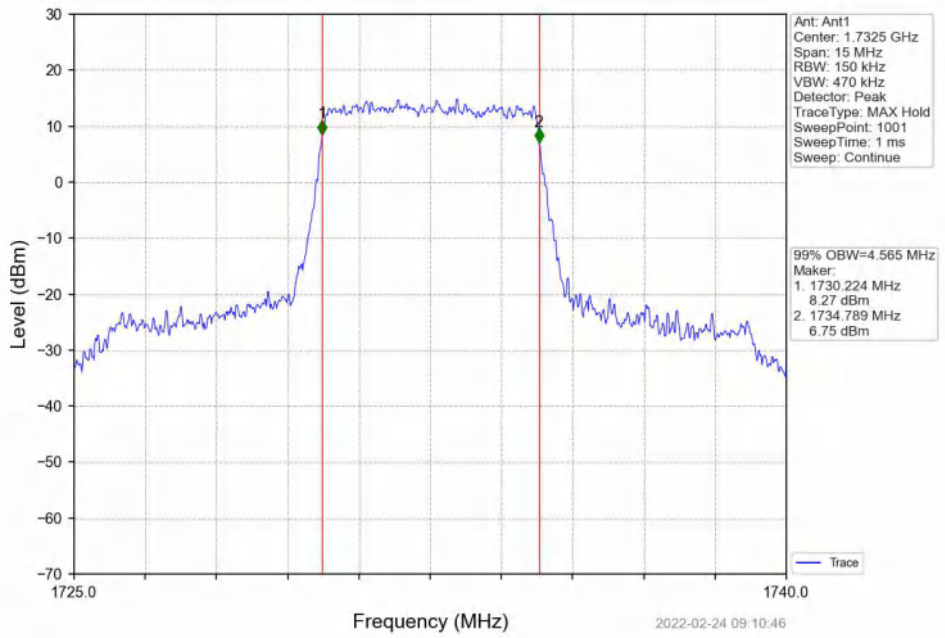
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



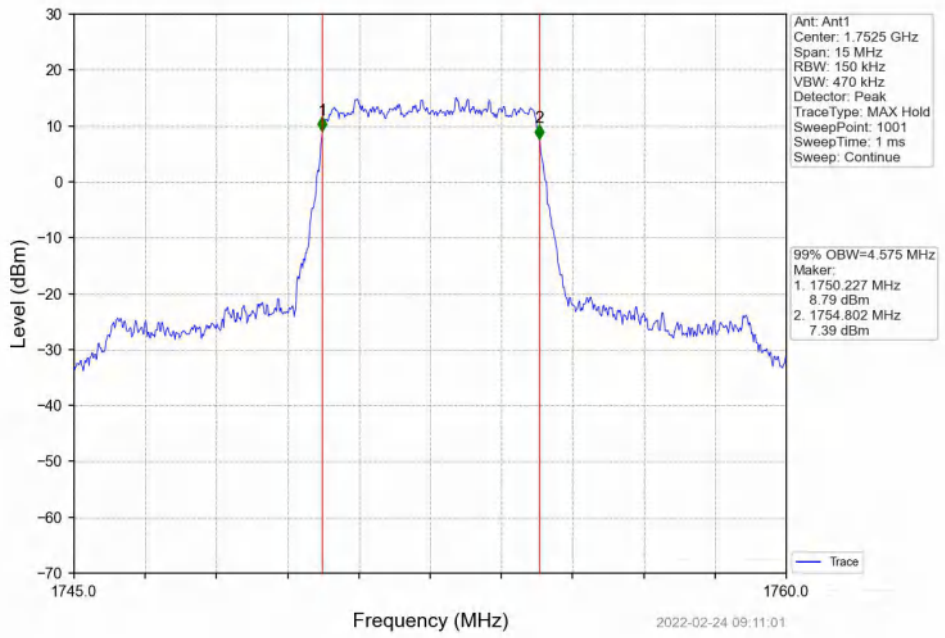
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



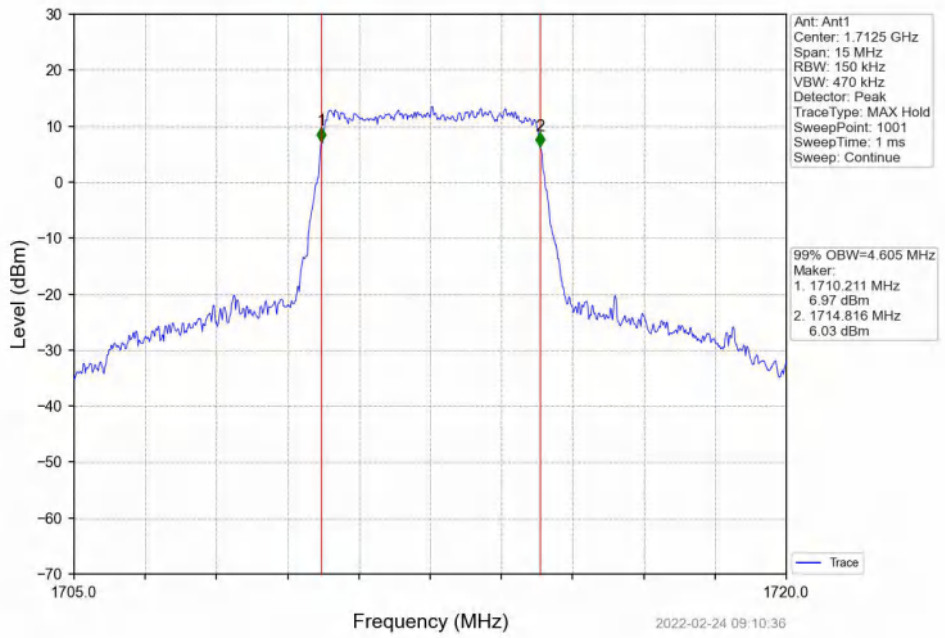
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



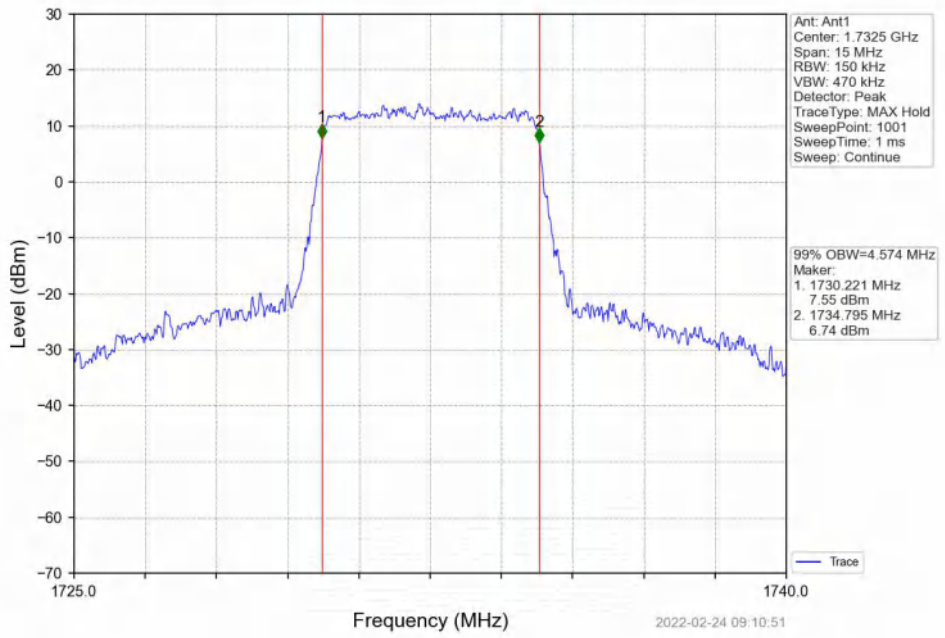
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



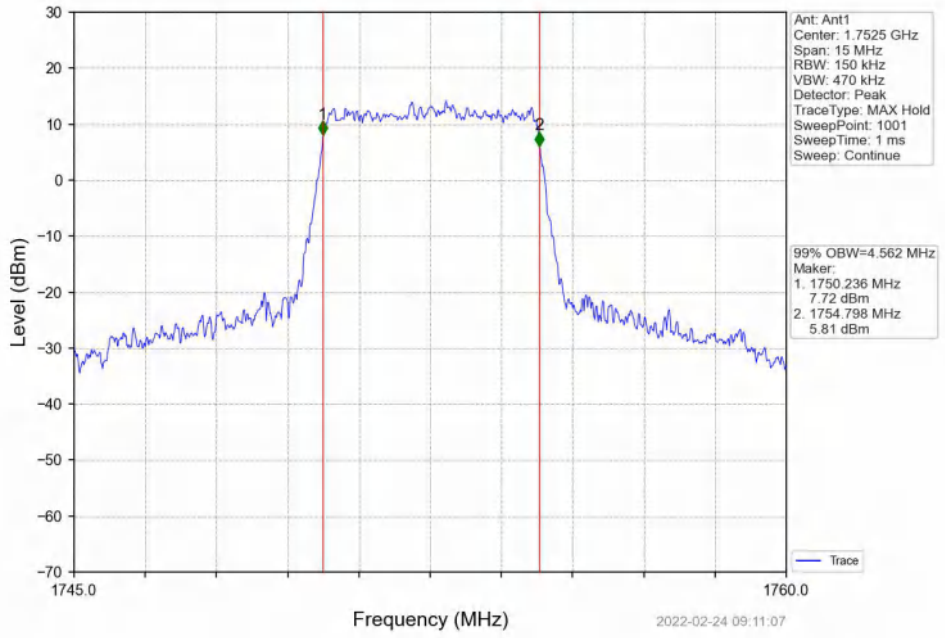
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



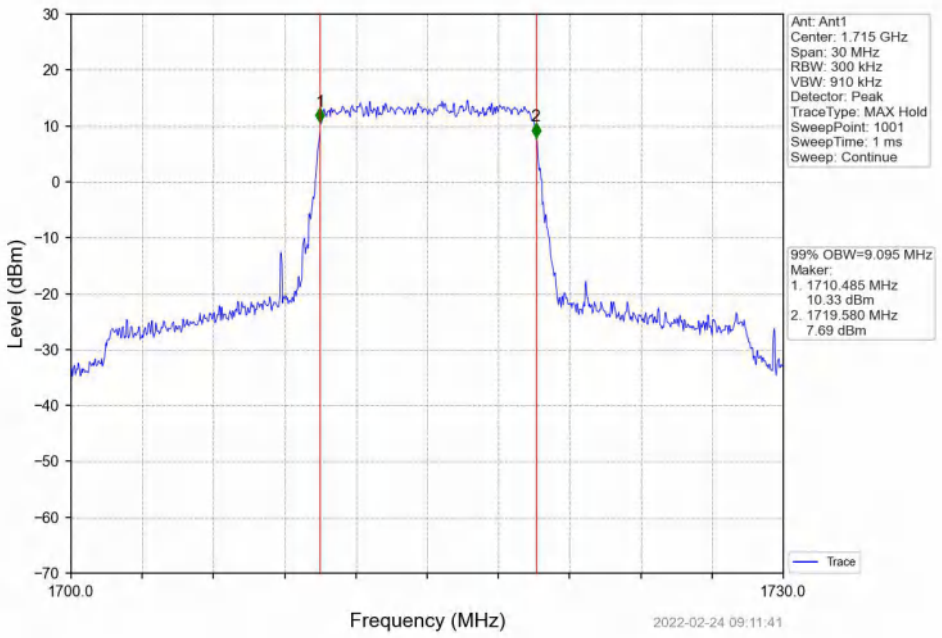
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



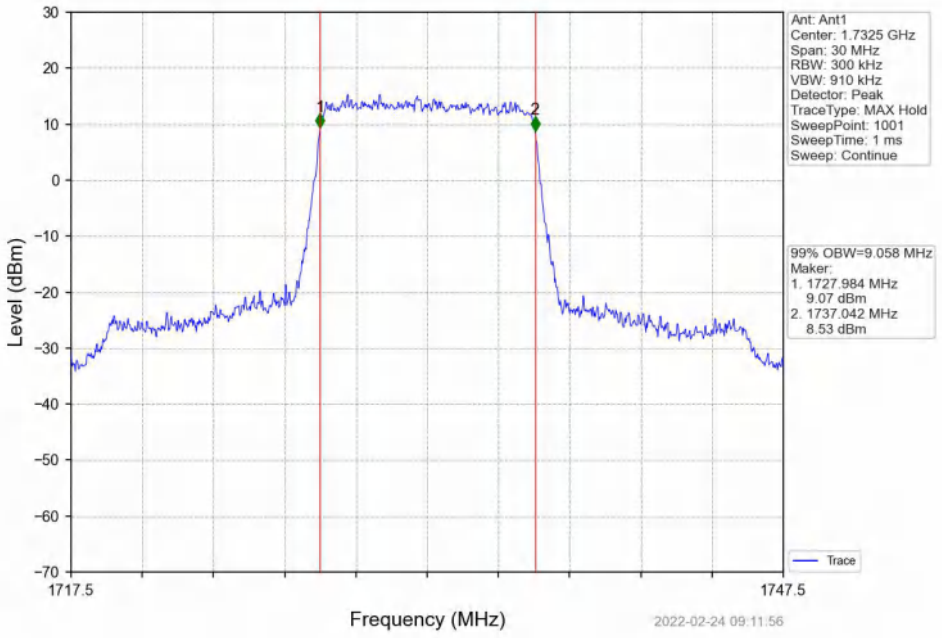
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



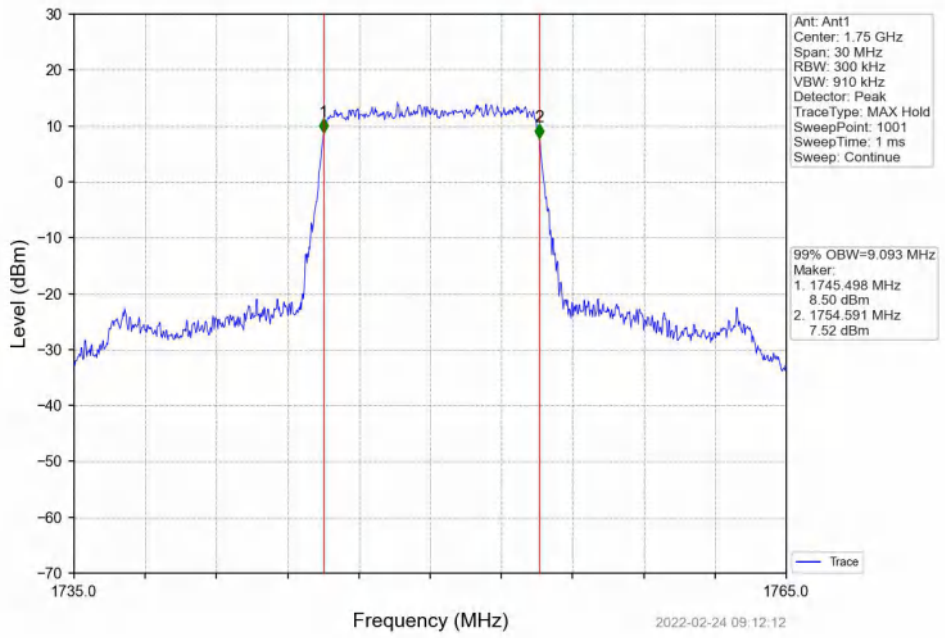
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



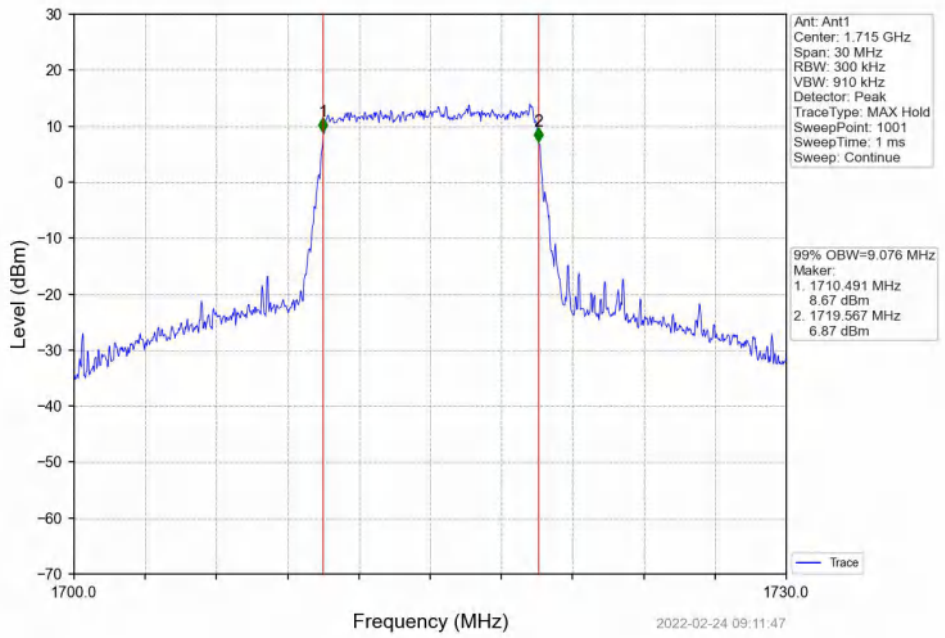
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



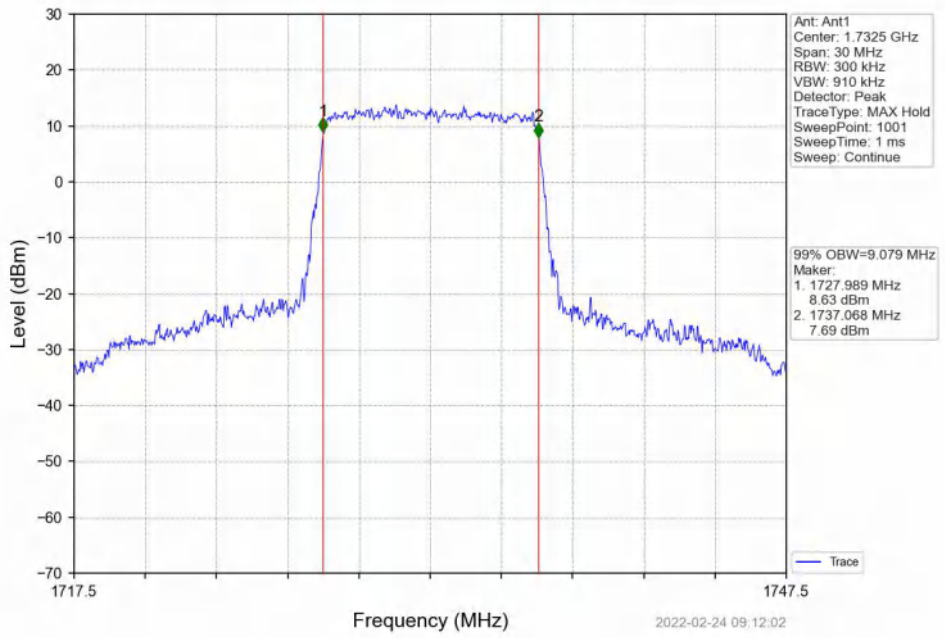
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



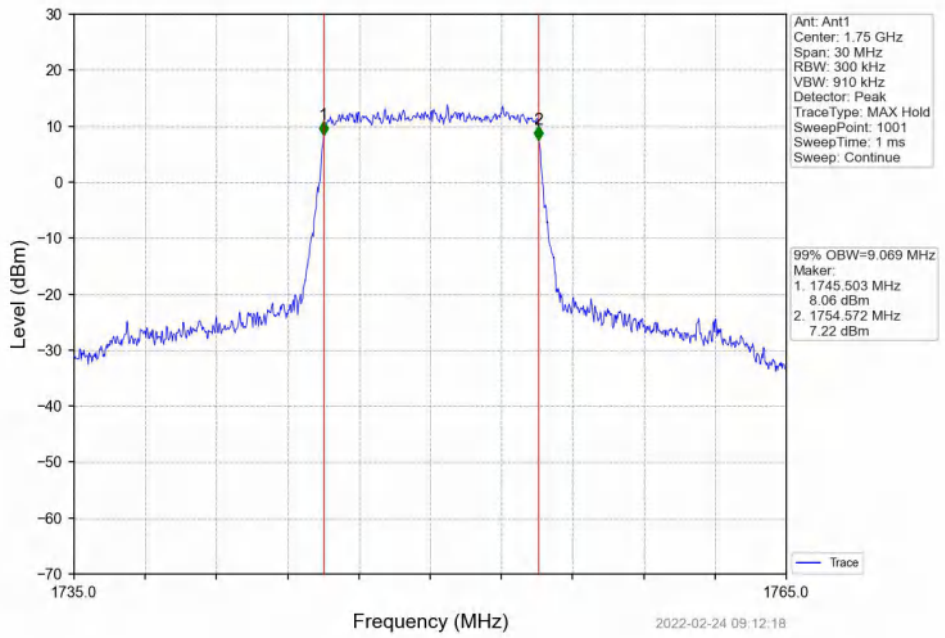
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



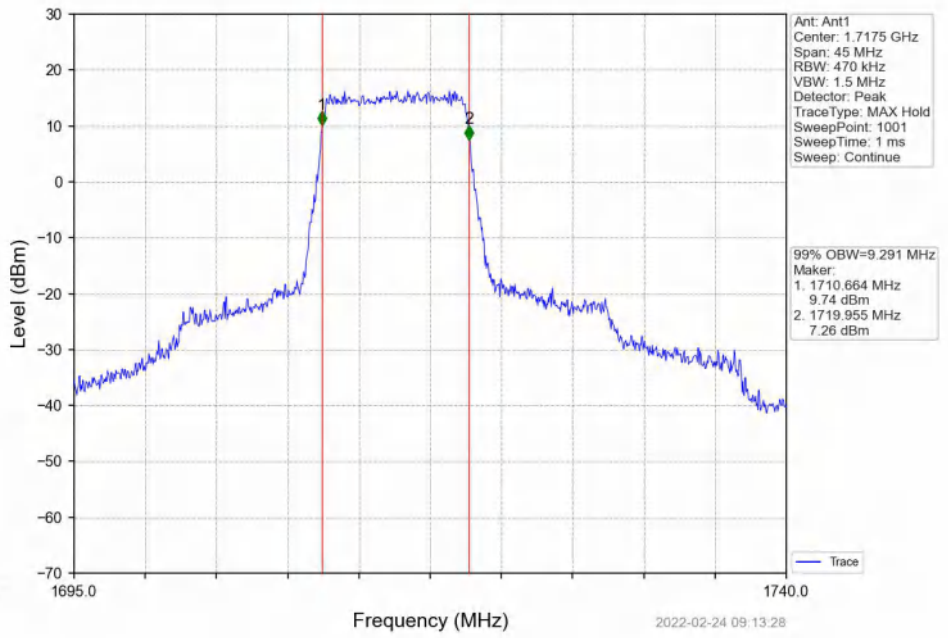
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



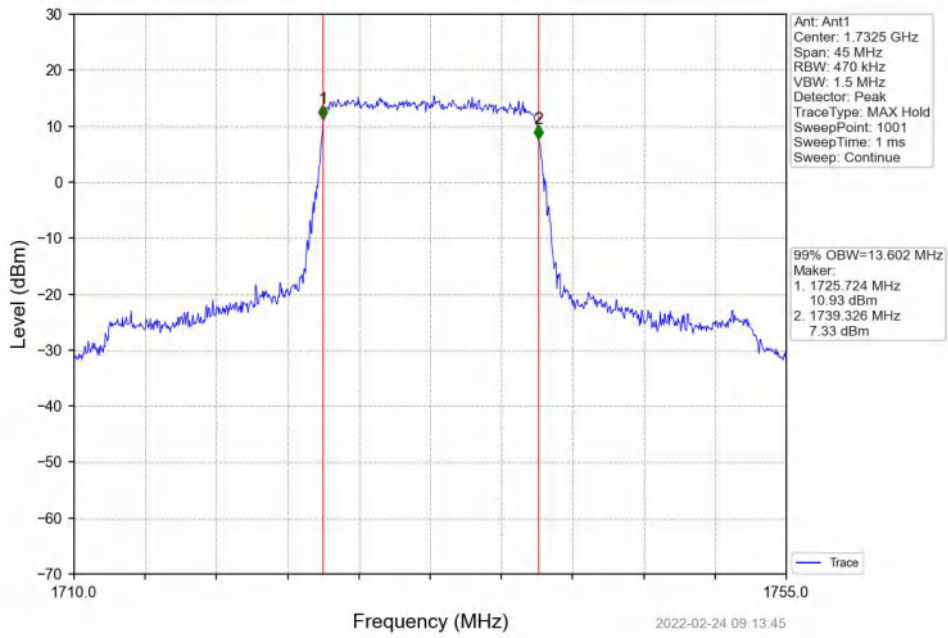
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



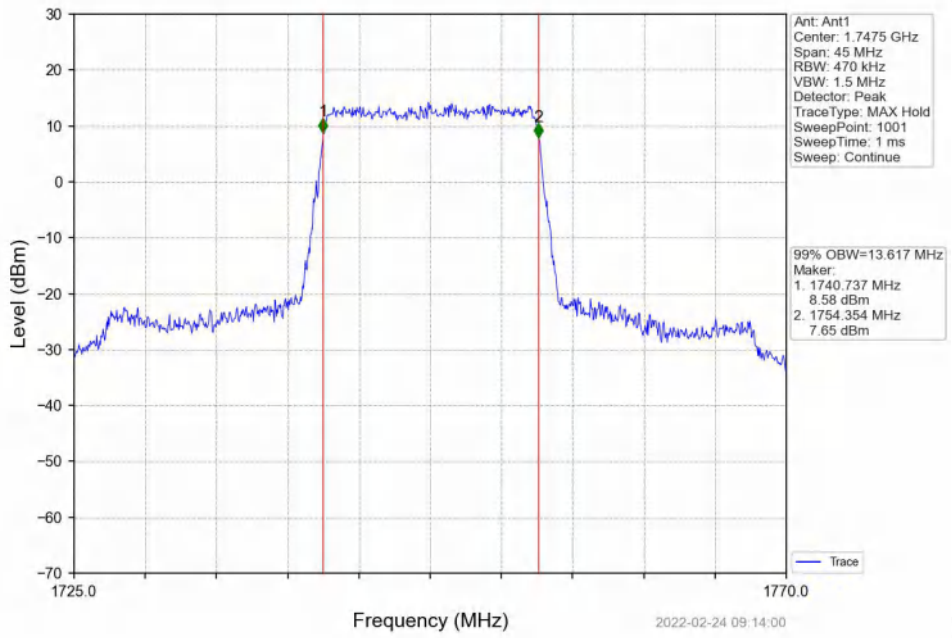
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



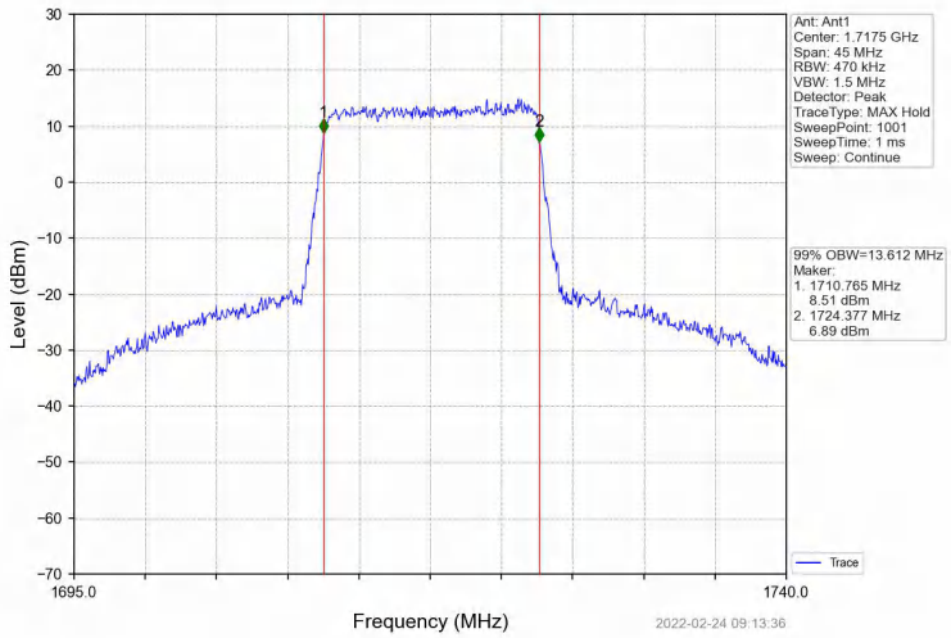
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



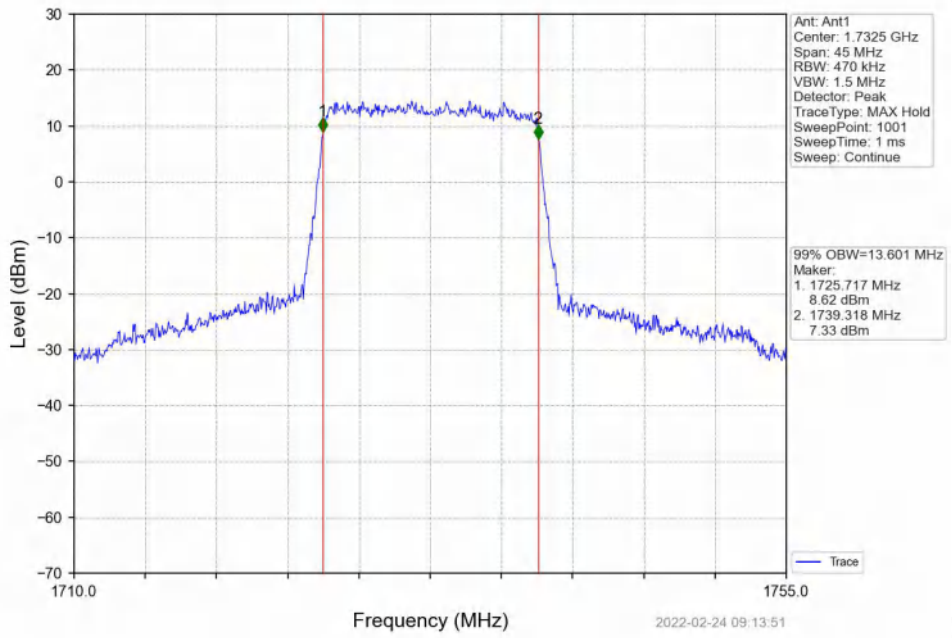
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



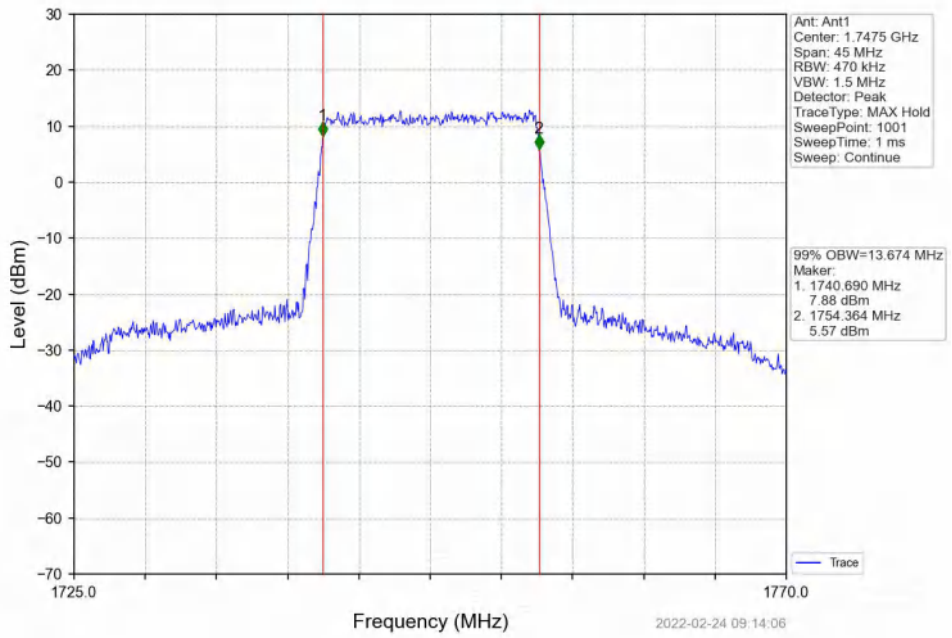
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



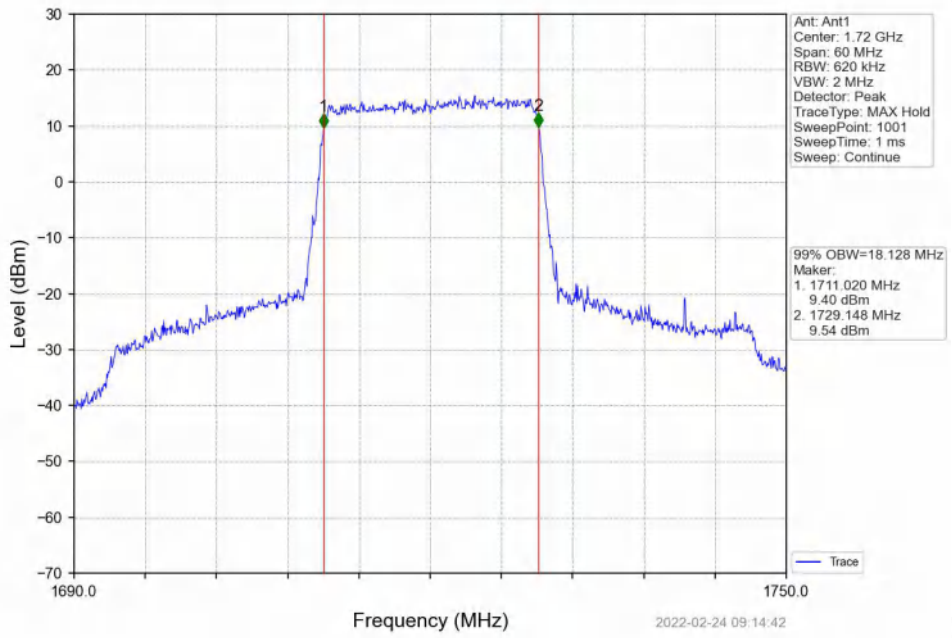
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



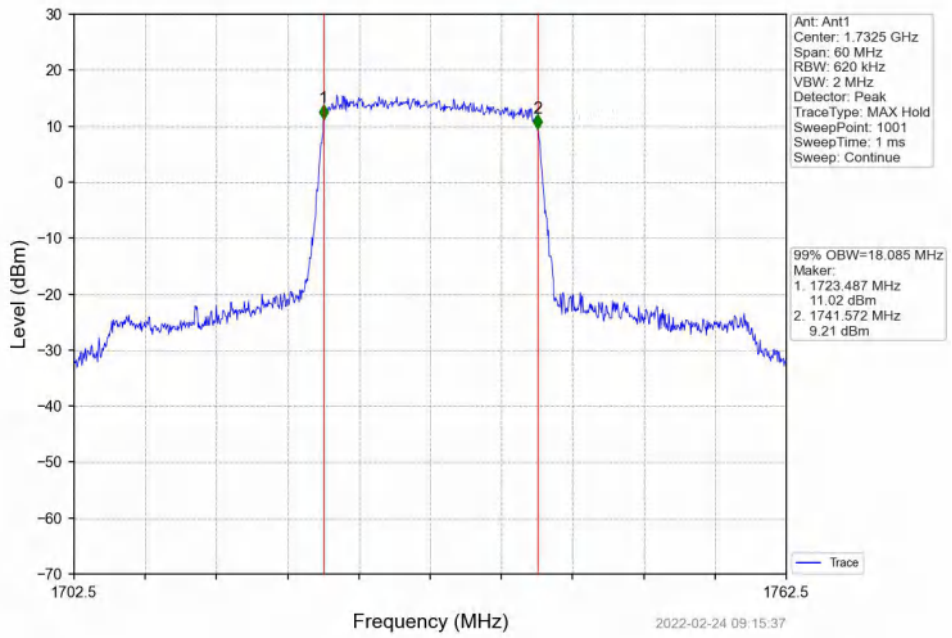
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



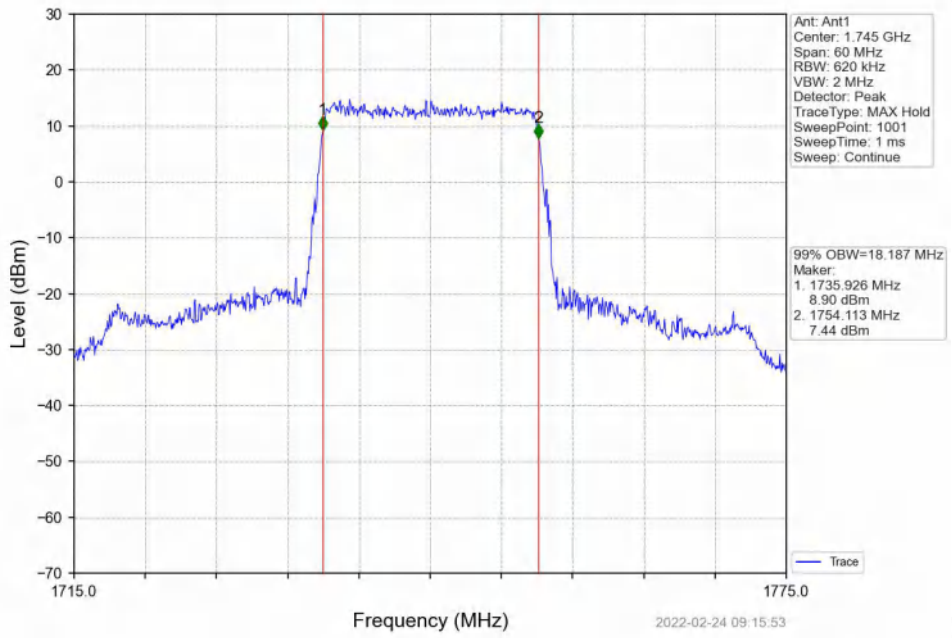
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



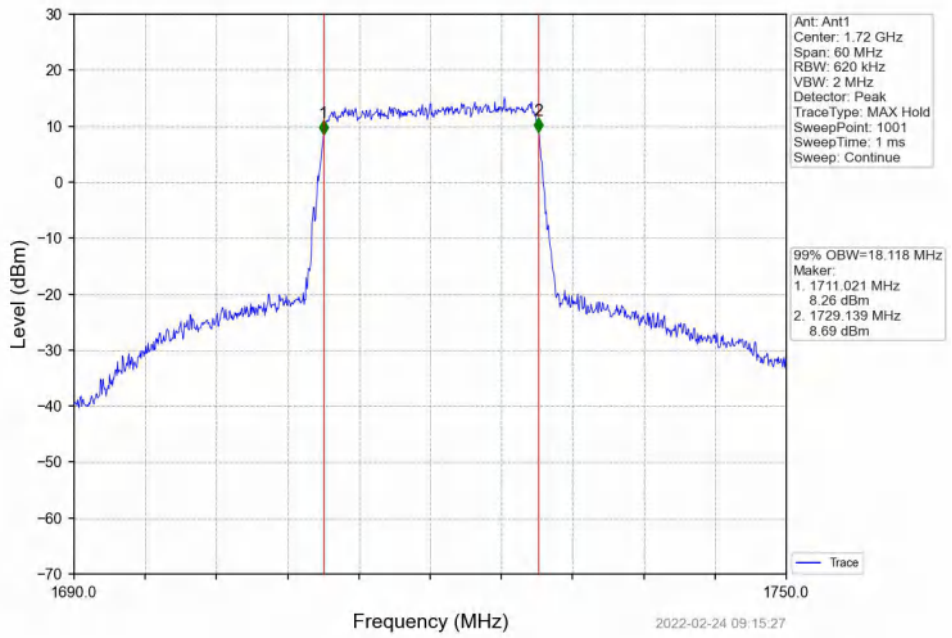
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



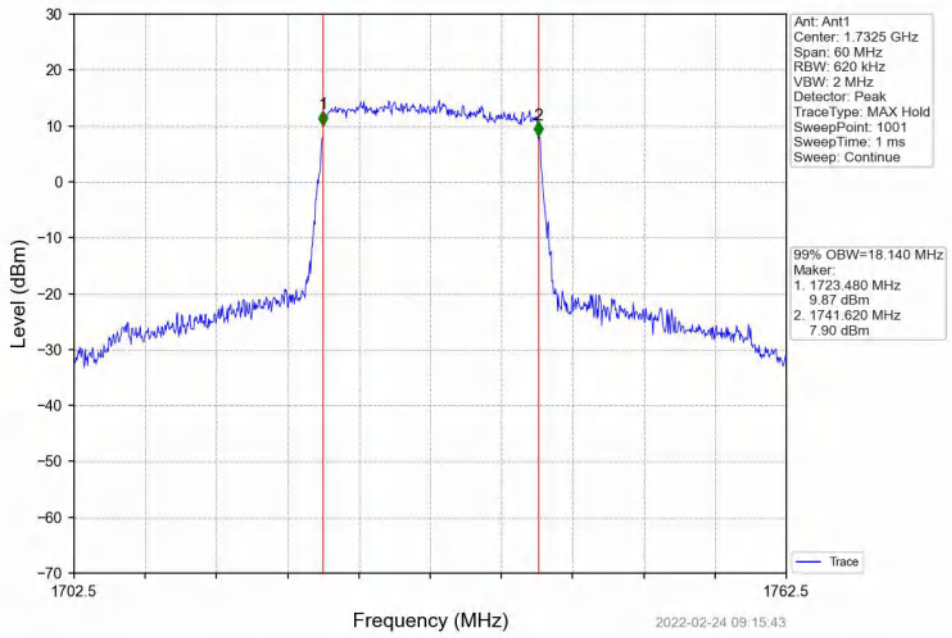
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



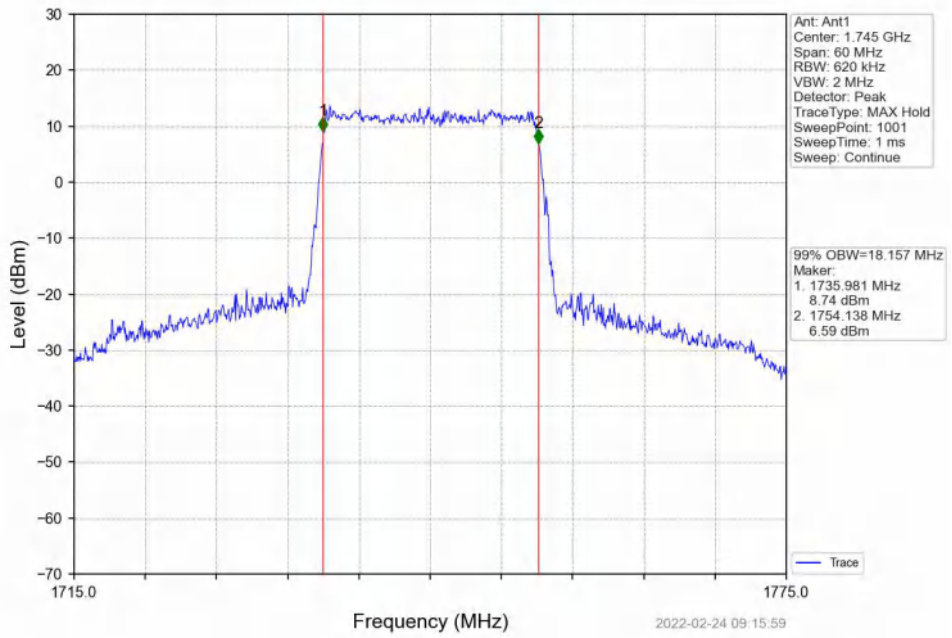
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



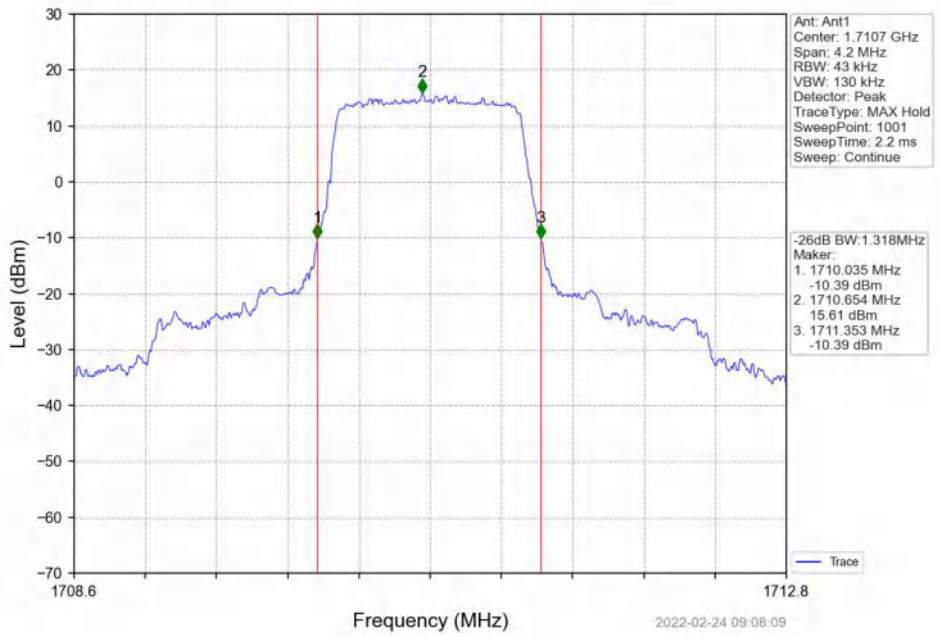
4.2 Band4_XDB

4.2.1 Test Result

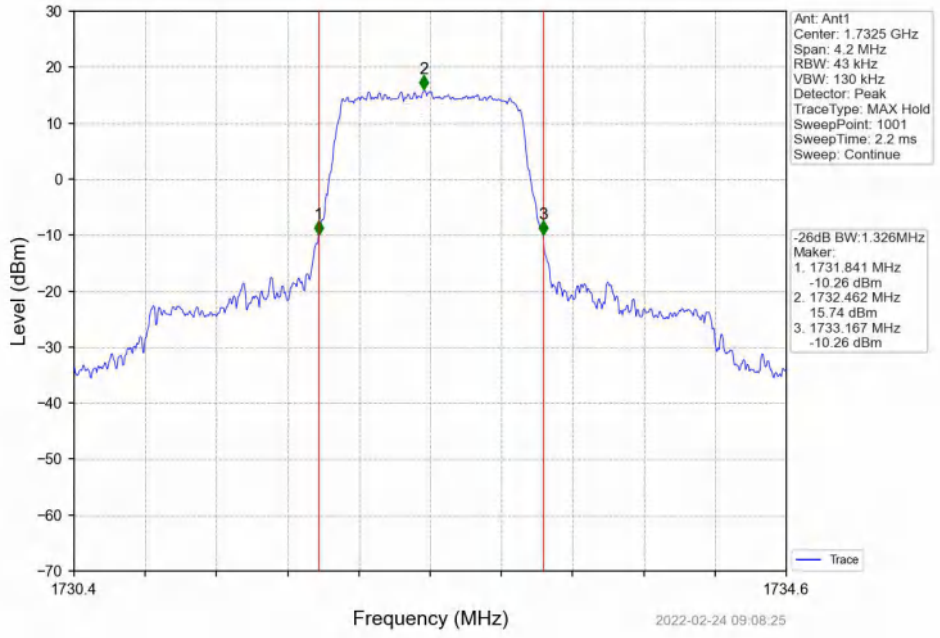
Band: 4 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	1710.7	6	0	1.318	Pass
		1732.5	6	0	1.326	Pass
		1754.3	6	0	1.327	Pass
	16QAM	1710.7	6	0	1.322	Pass
		1732.5	6	0	1.301	Pass
		1754.3	6	0	1.328	Pass
3	QPSK	1711.5	15	0	2.991	Pass
		1732.5	15	0	3.000	Pass
		1753.5	15	0	2.990	Pass
	16QAM	1711.5	15	0	3.003	Pass
		1732.5	15	0	2.973	Pass
		1753.5	15	0	2.972	Pass
5	QPSK	1712.5	25	0	5.250	Pass
		1732.5	25	0	5.255	Pass
		1752.5	25	0	5.203	Pass
	16QAM	1712.5	25	0	5.253	Pass
		1732.5	25	0	5.245	Pass
		1752.5	25	0	5.236	Pass
10	QPSK	1715	50	0	10.408	Pass
		1732.5	50	0	10.226	Pass
		1750	50	0	10.314	Pass
	16QAM	1715	50	0	10.384	Pass
		1732.5	50	0	10.047	Pass
		1750	50	0	10.182	Pass
15	QPSK	1717.5	75	0	10.985	Pass
		1732.5	75	0	15.438	Pass
		1747.5	75	0	15.322	Pass
	16QAM	1717.5	75	0	15.189	Pass
		1732.5	75	0	15.243	Pass
		1747.5	75	0	15.437	Pass
20	QPSK	1720	100	0	20.157	Pass
		1732.5	100	0	19.970	Pass
		1745	100	0	20.229	Pass
	16QAM	1720	100	0	20.104	Pass
		1732.5	100	0	19.979	Pass
		1745	100	0	20.033	Pass

4.2.2 Test Graph

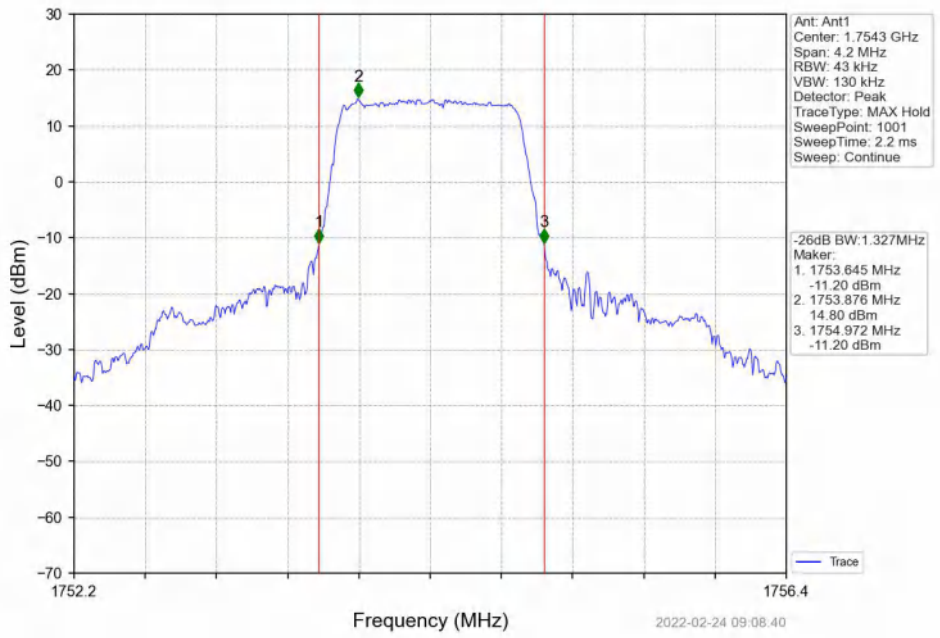
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



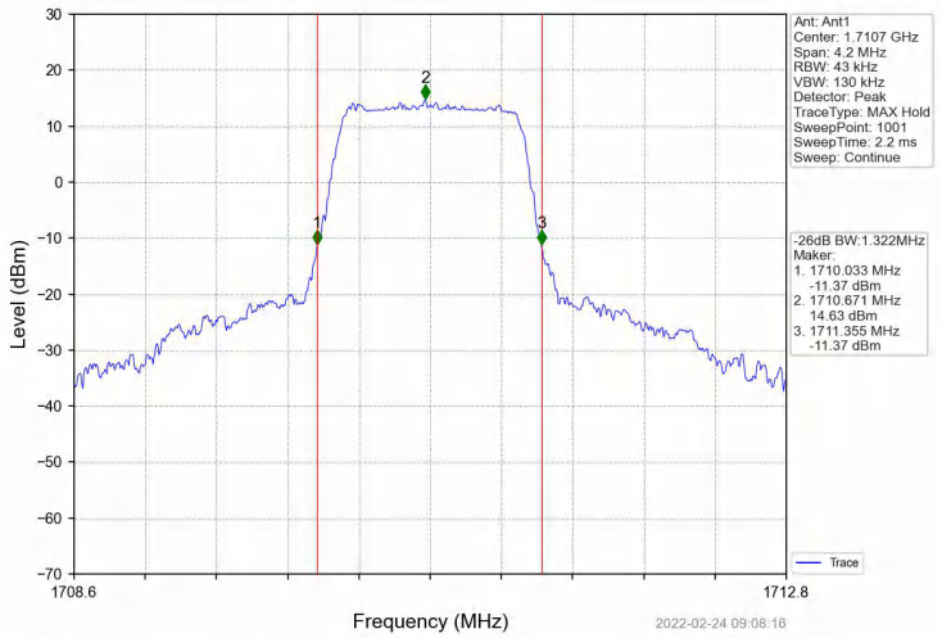
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



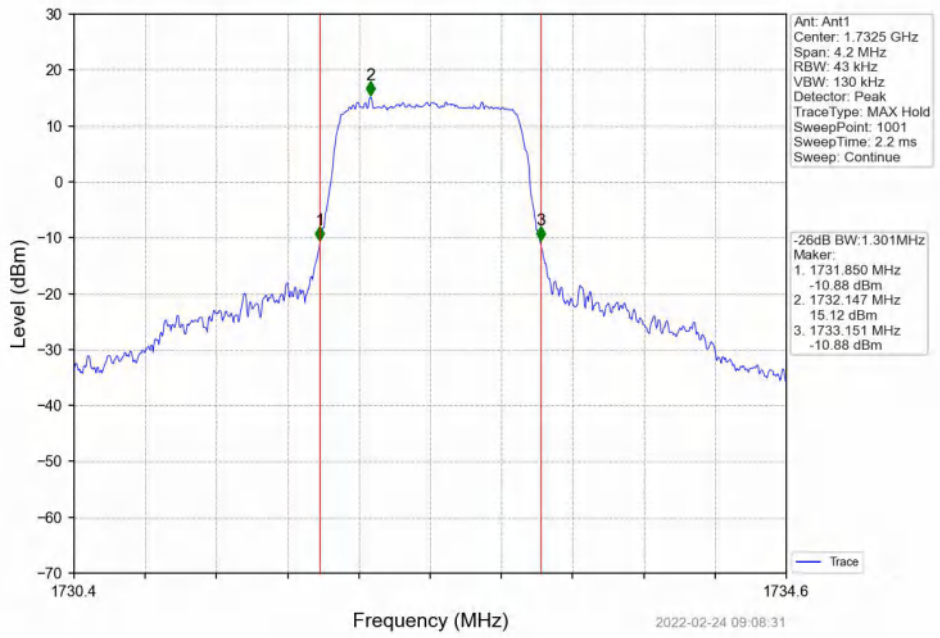
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



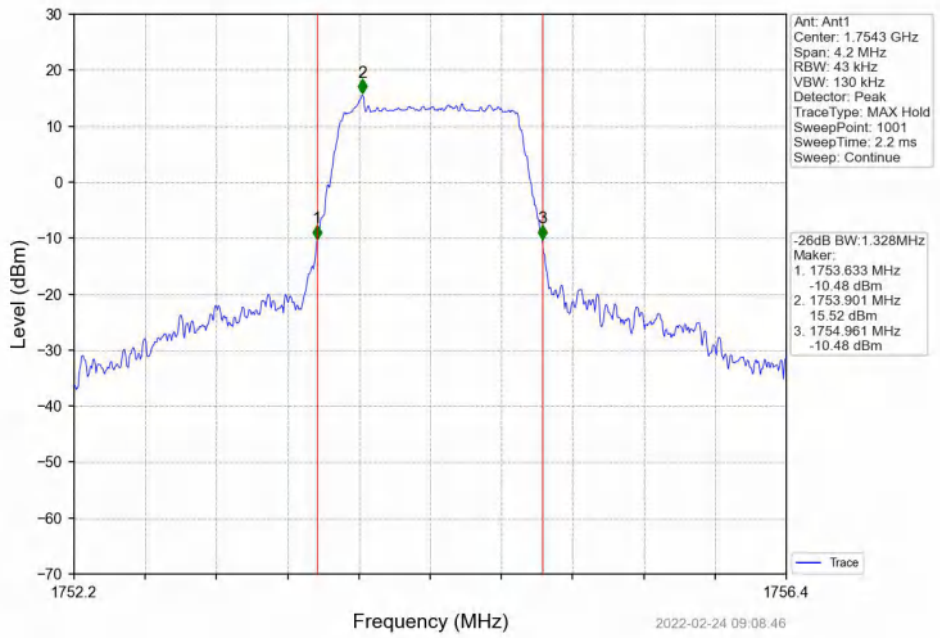
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



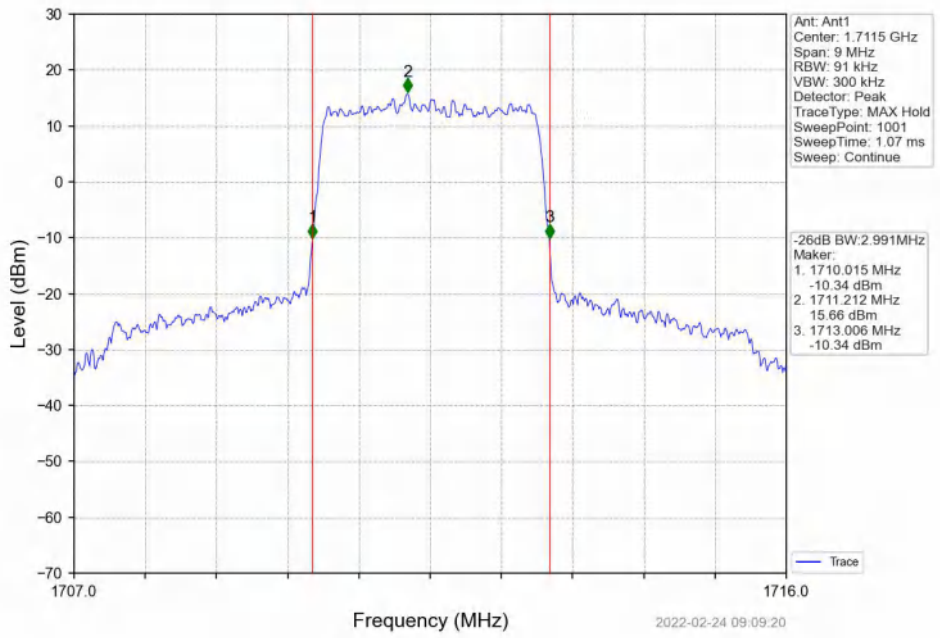
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



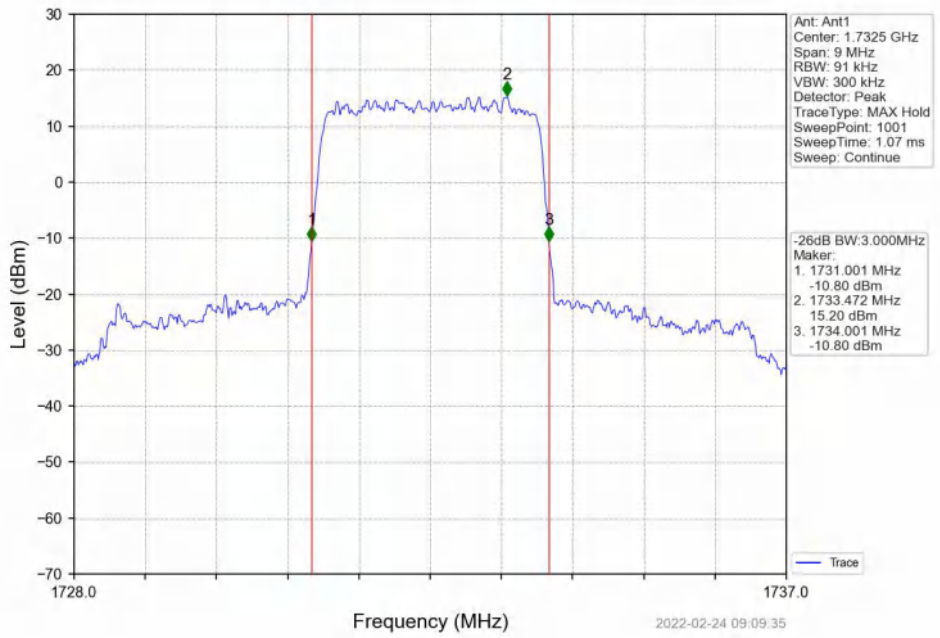
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



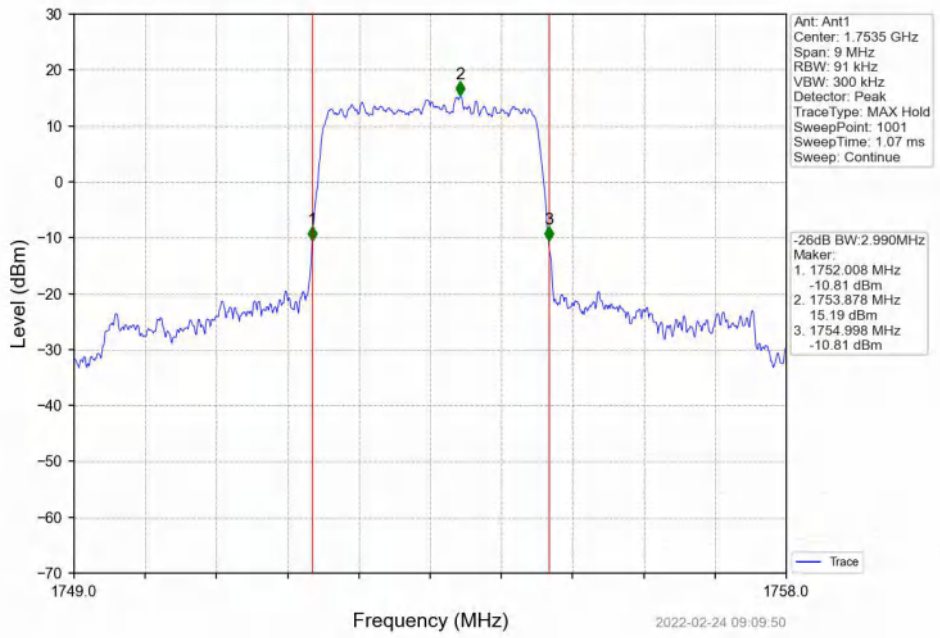
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



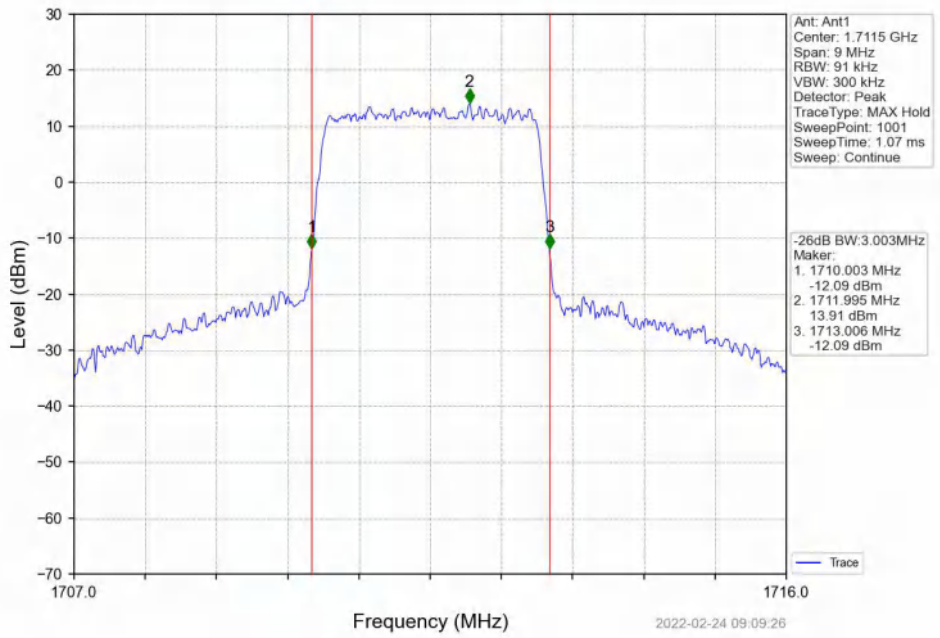
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



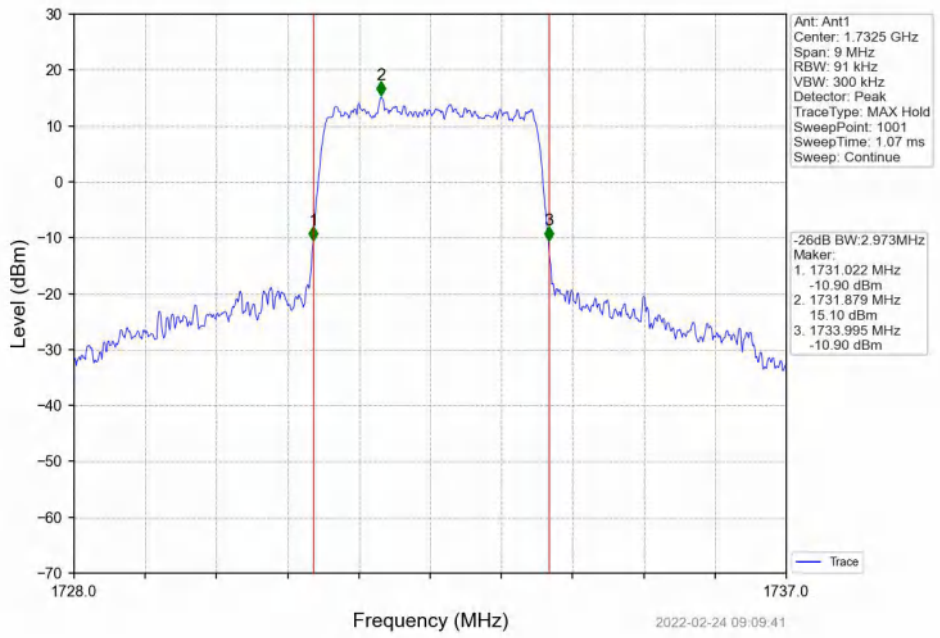
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



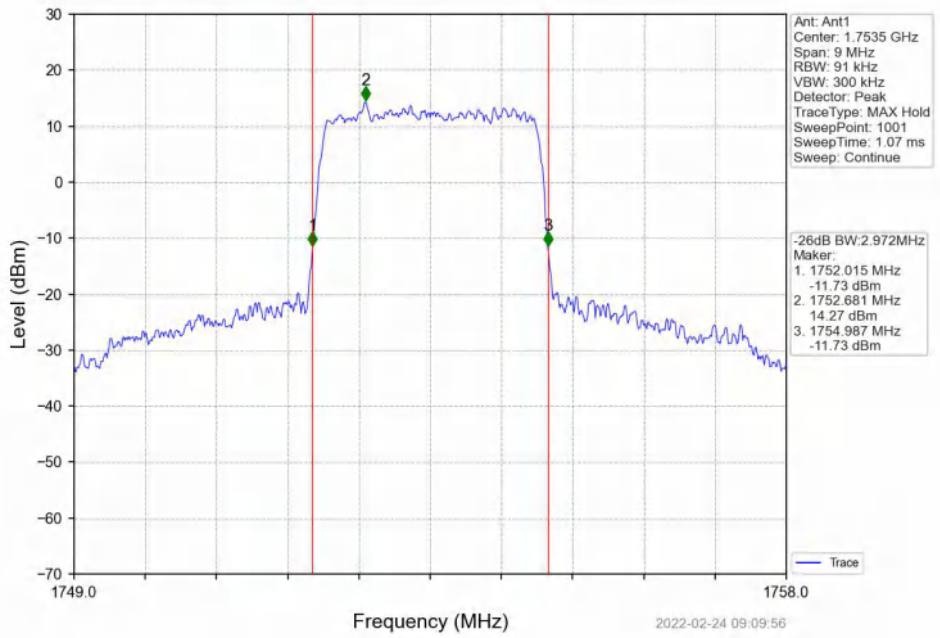
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



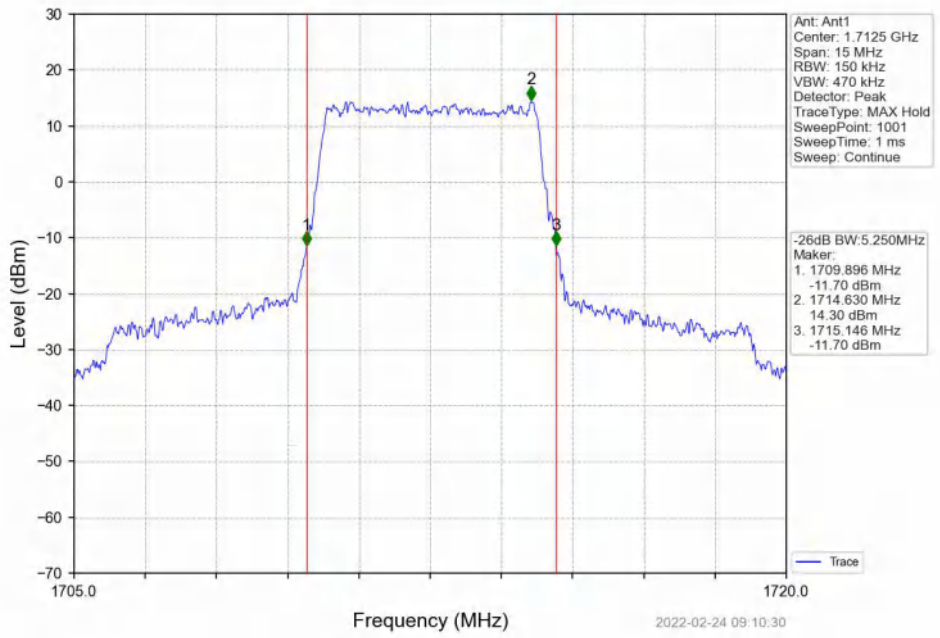
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



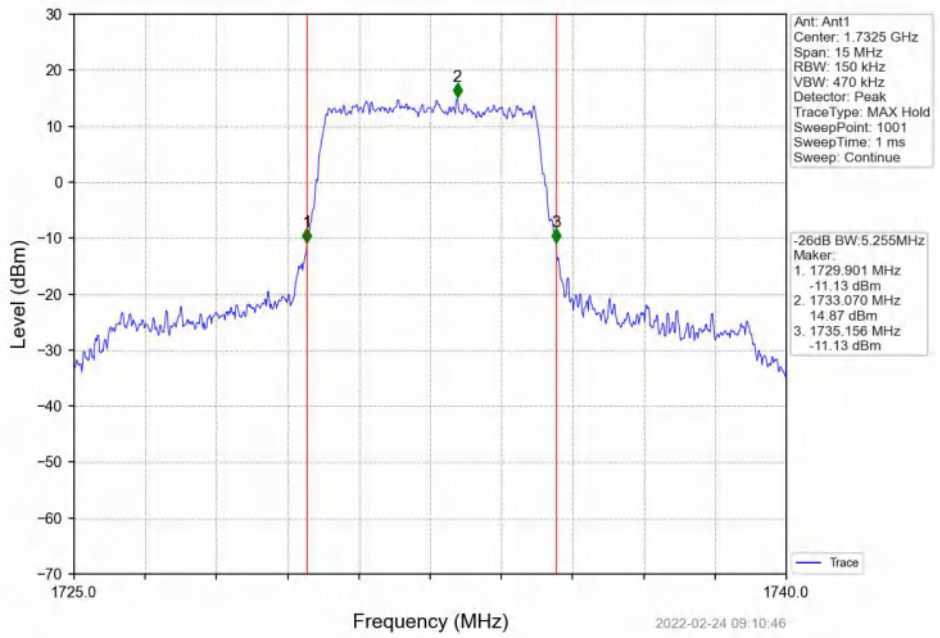
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



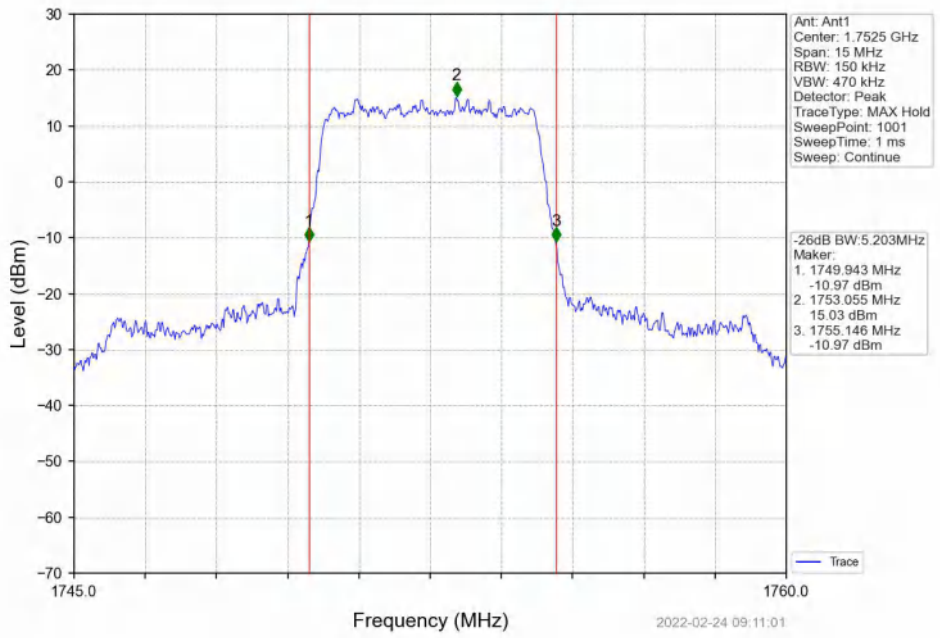
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



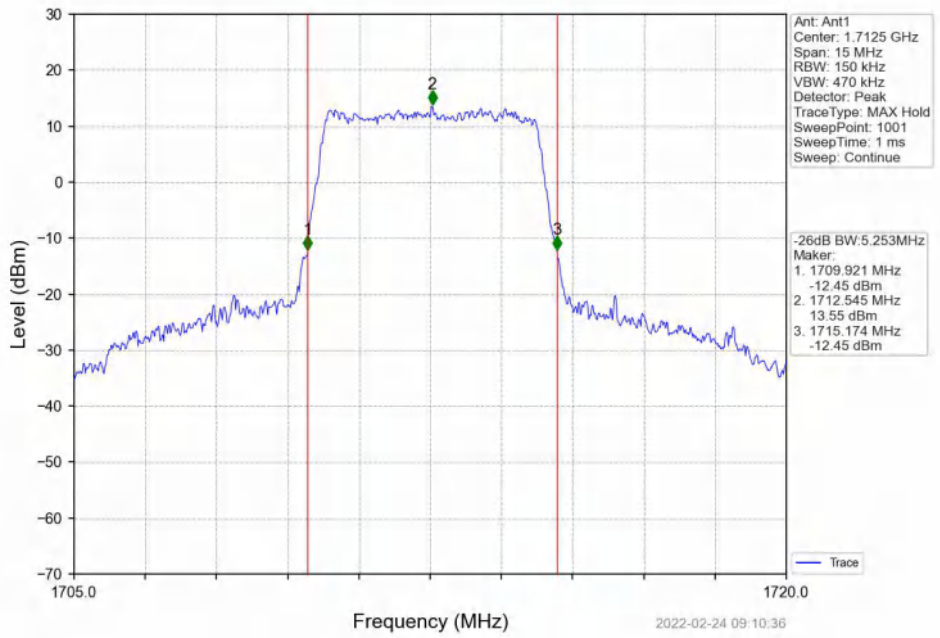
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



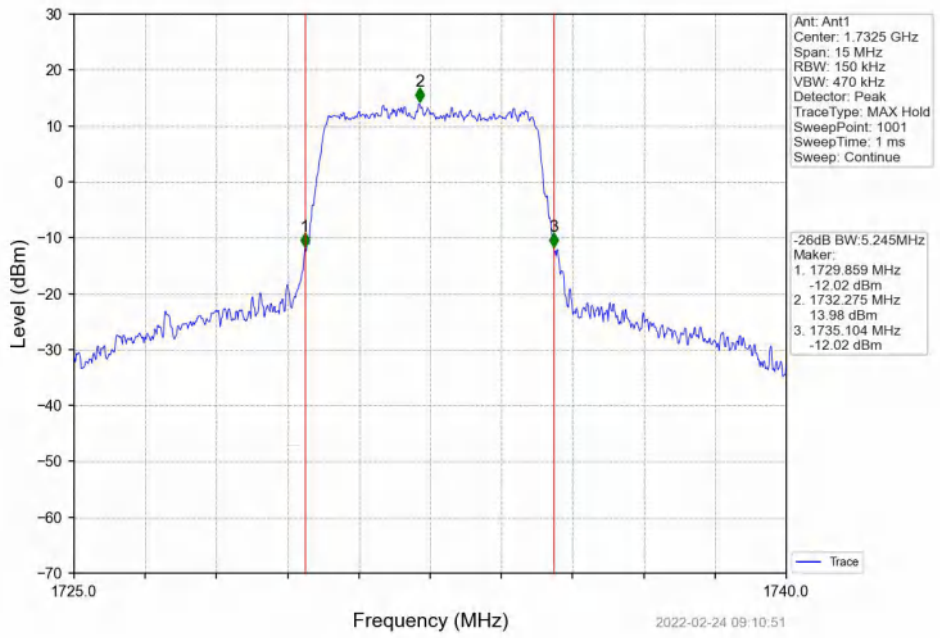
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



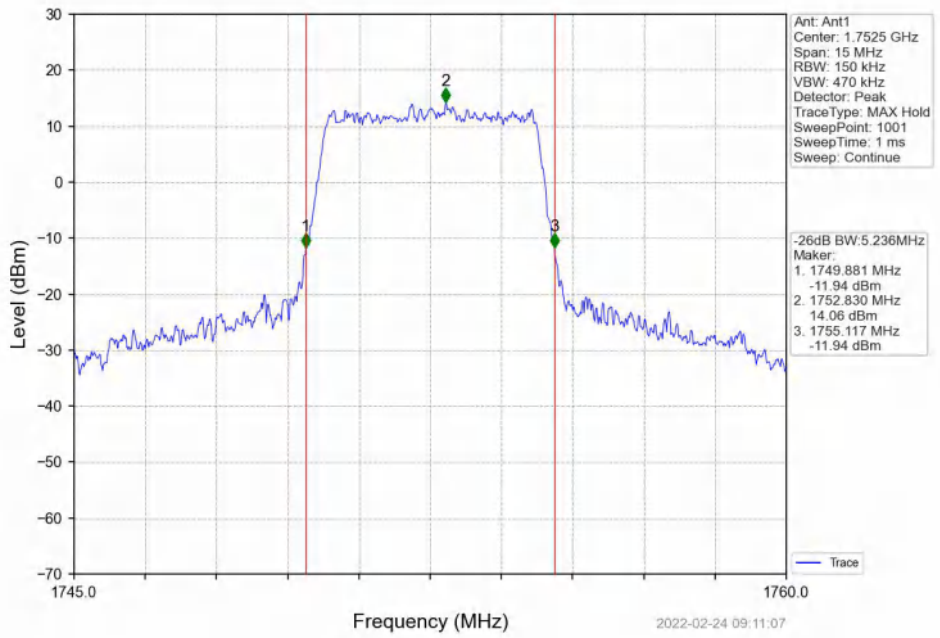
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



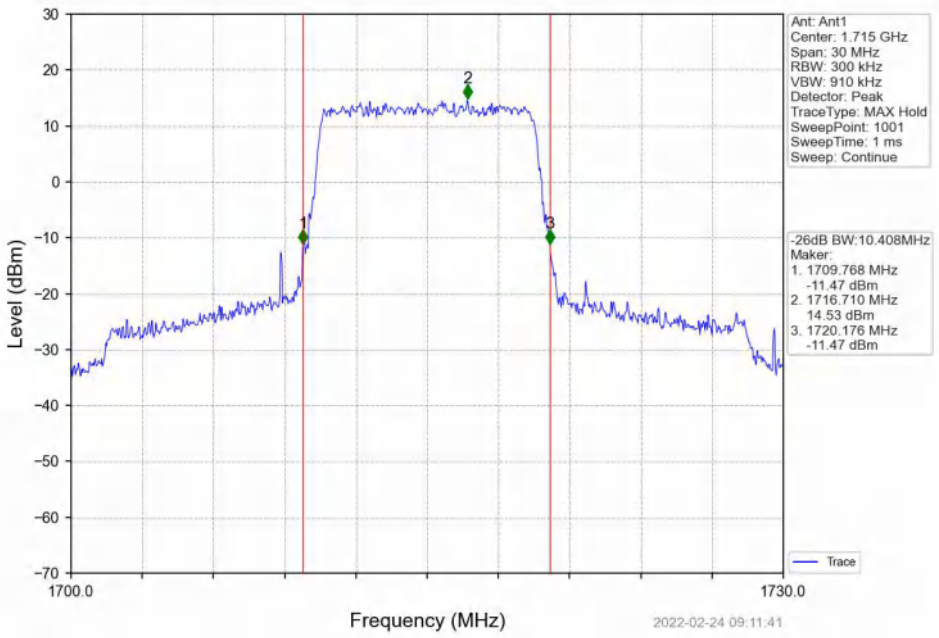
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



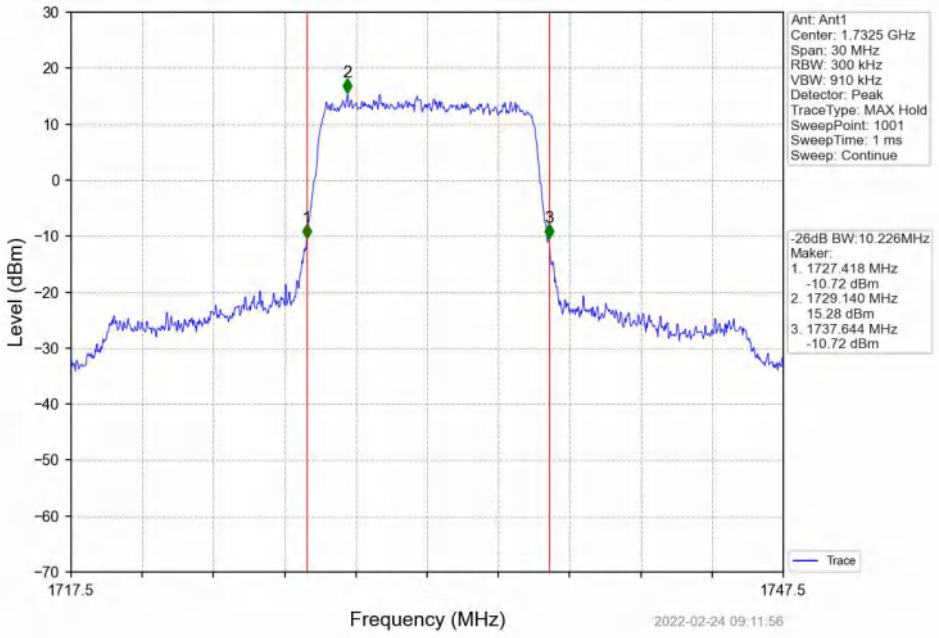
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



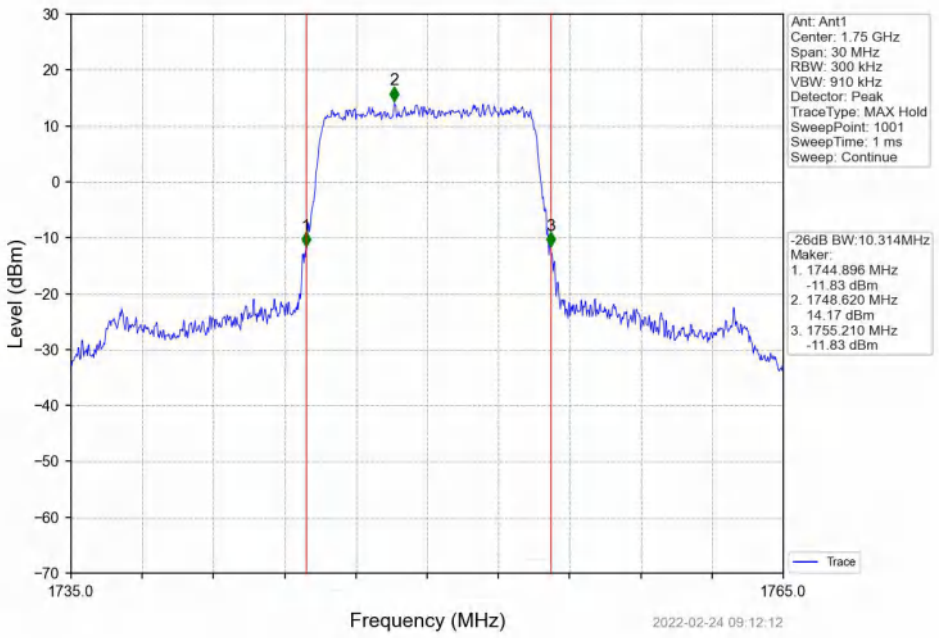
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



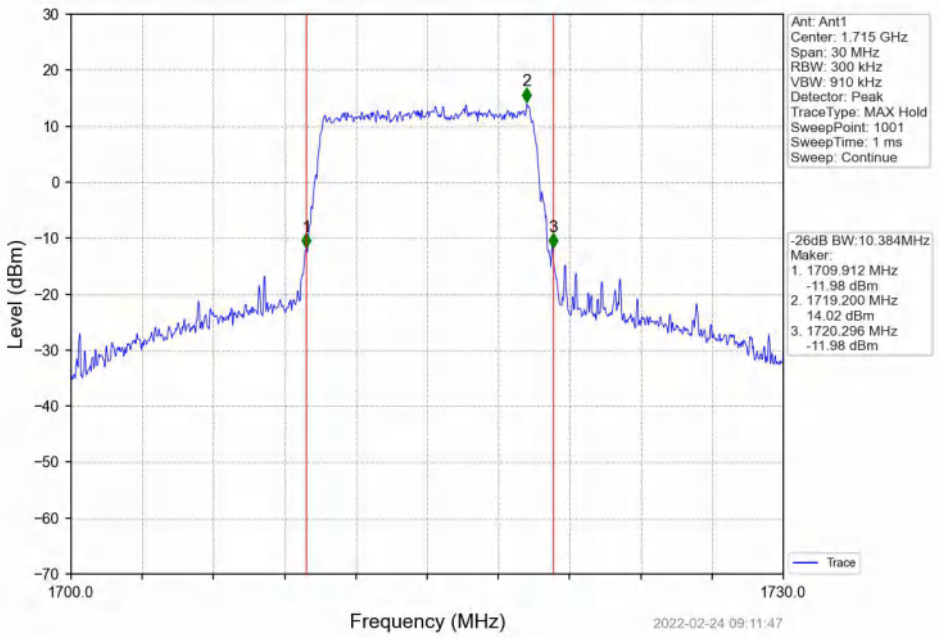
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



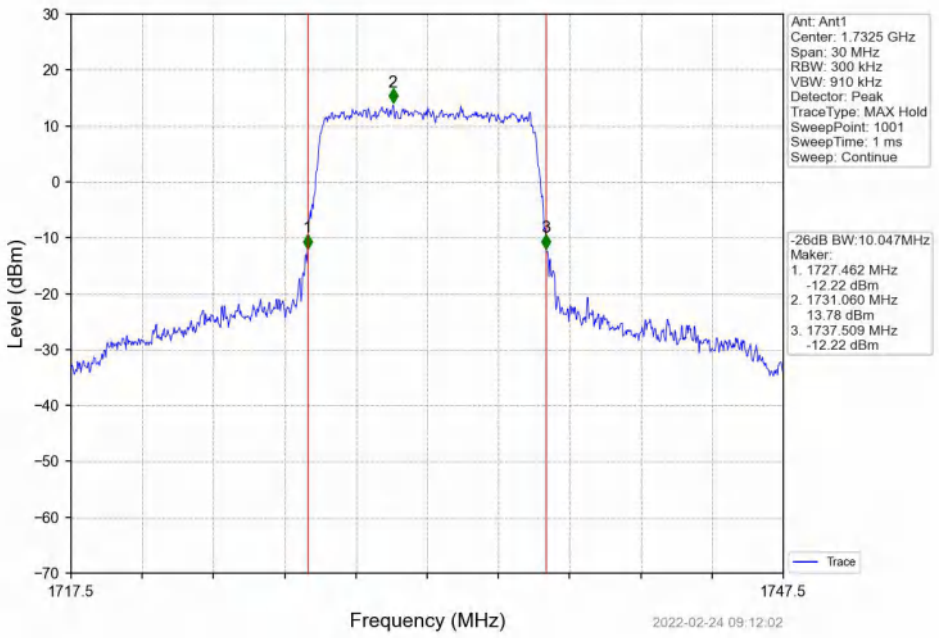
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



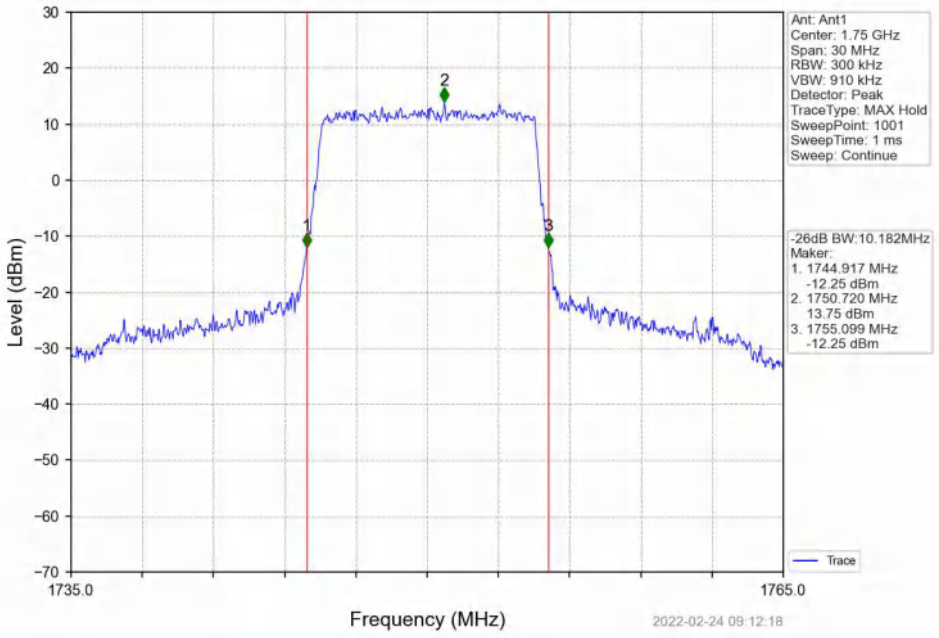
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



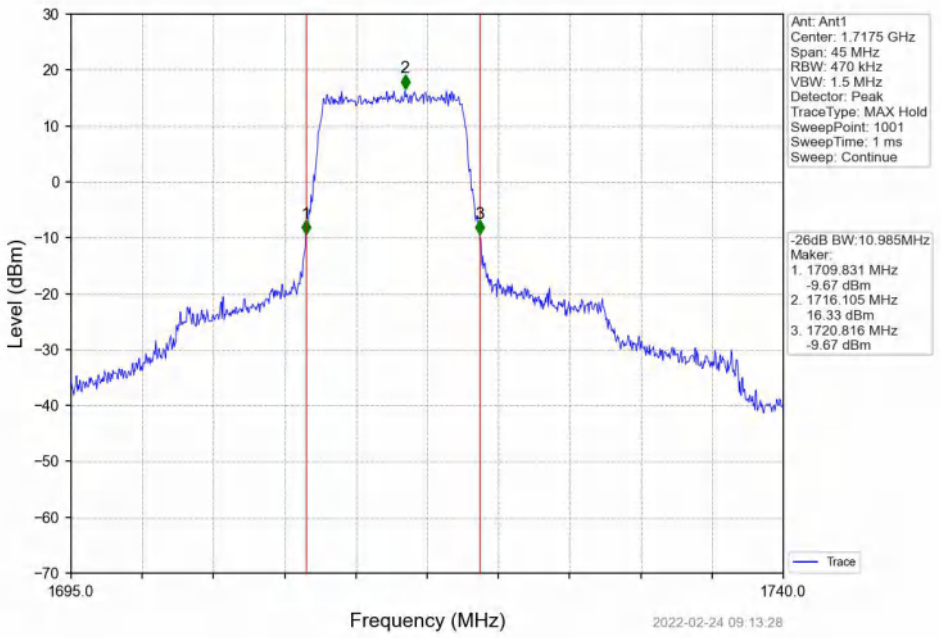
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



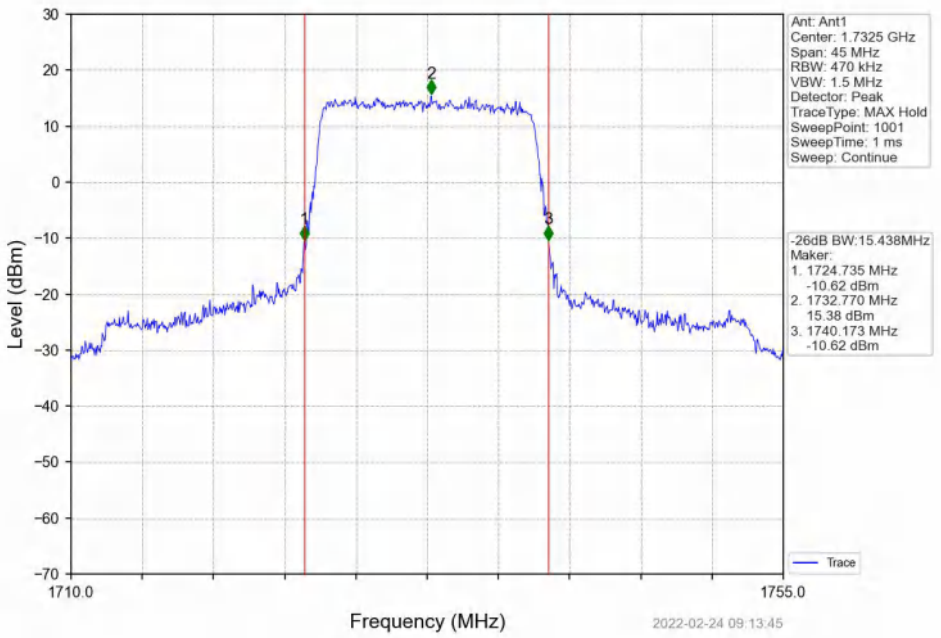
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



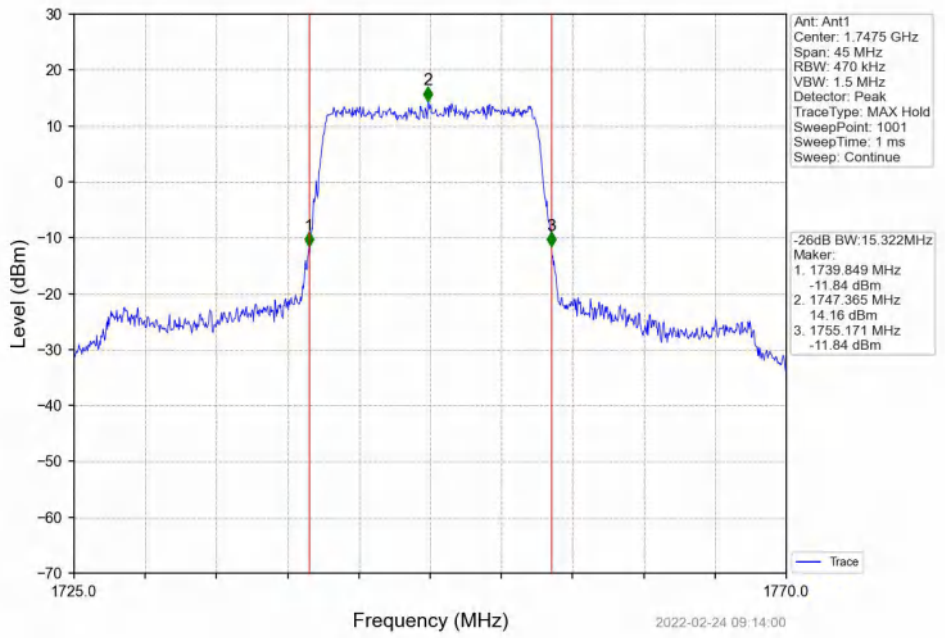
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



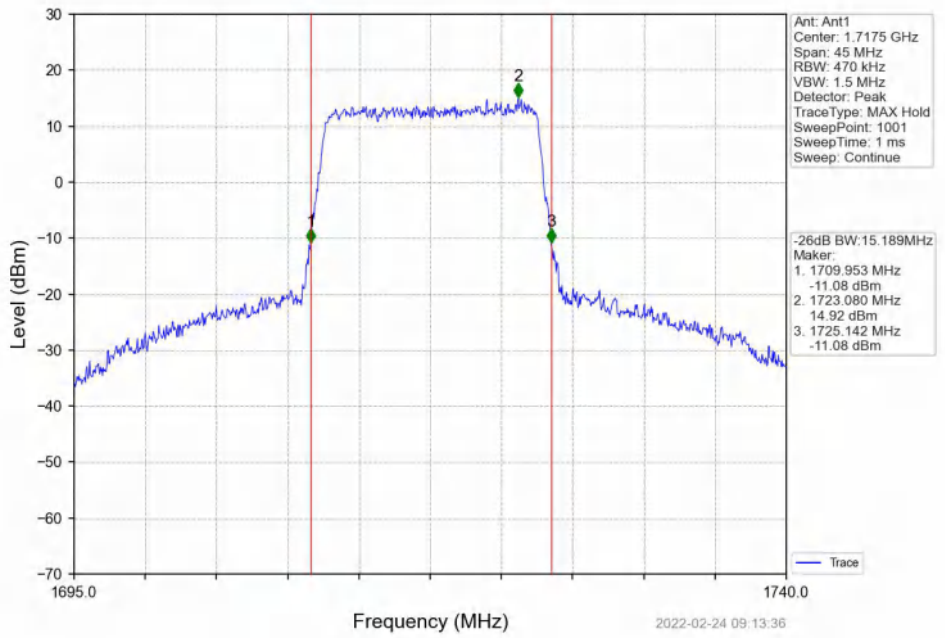
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



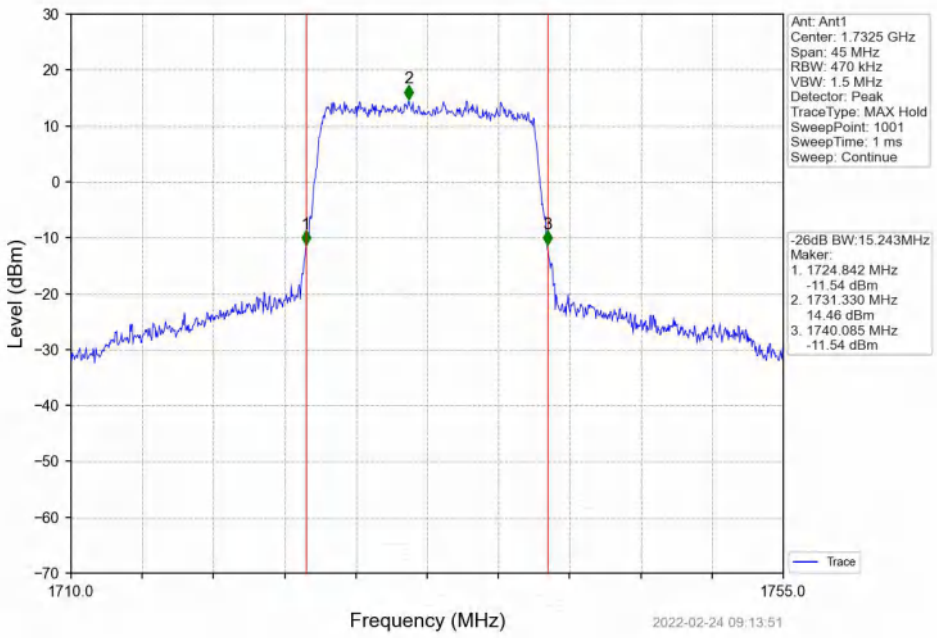
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



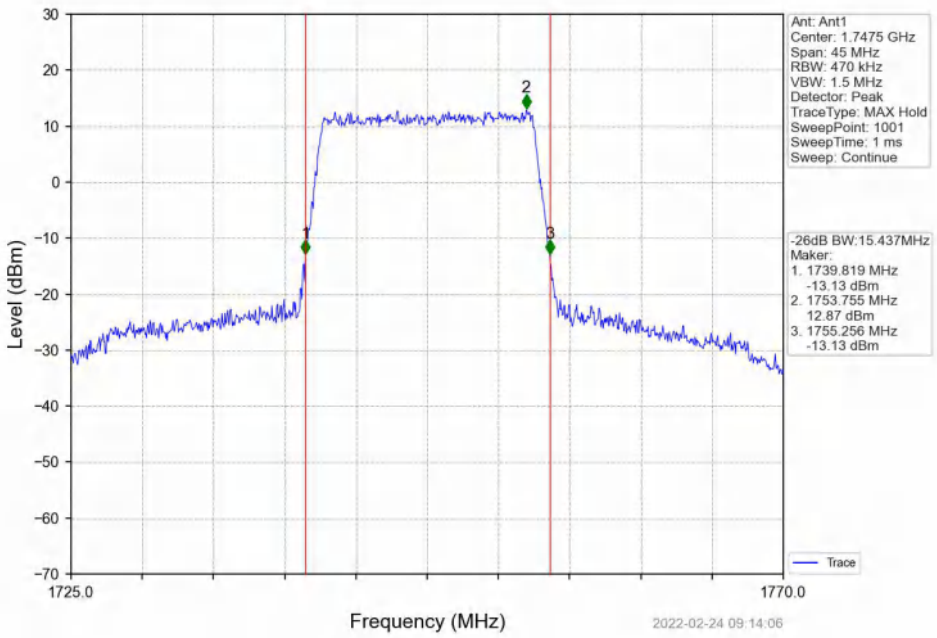
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



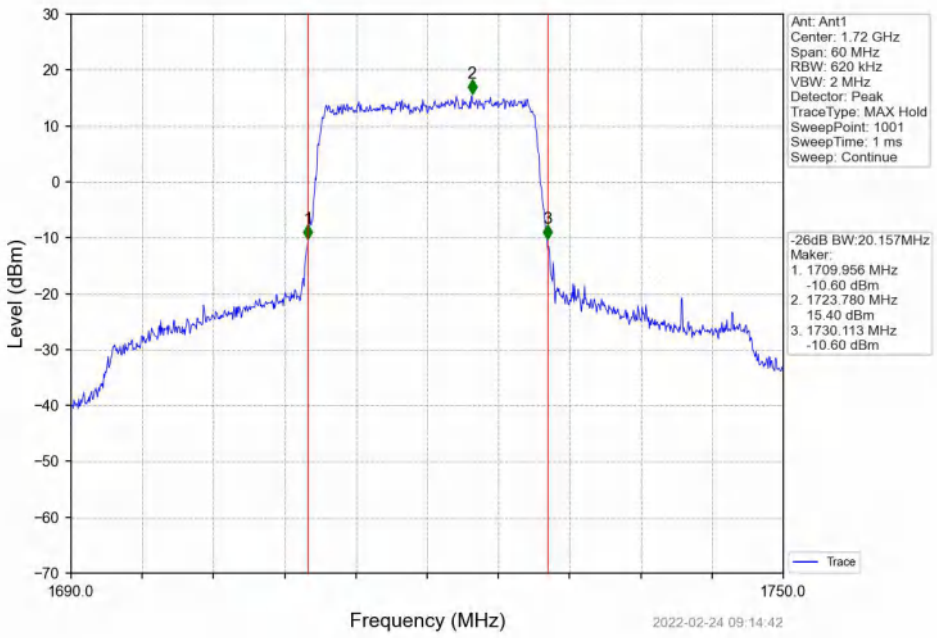
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



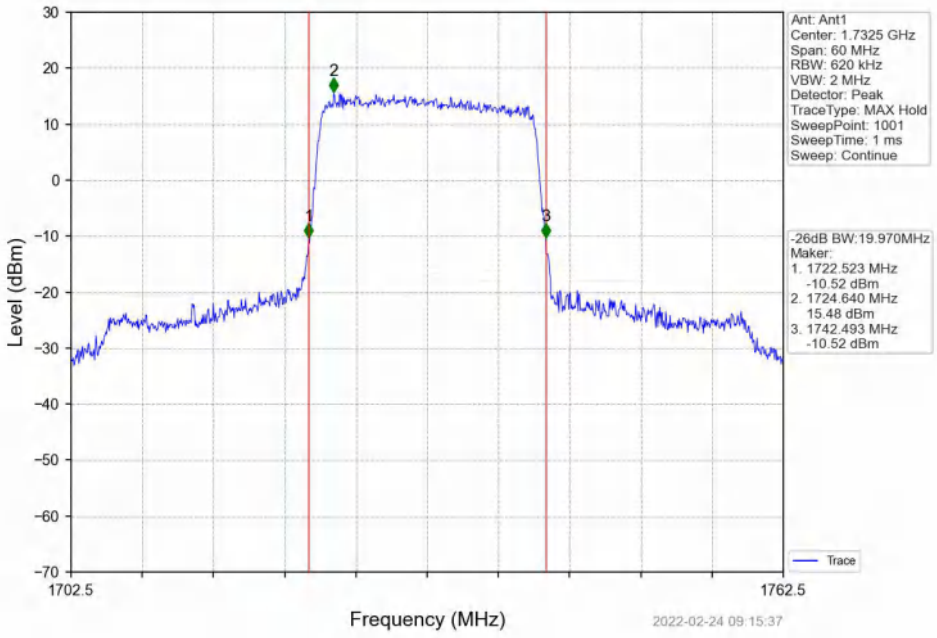
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



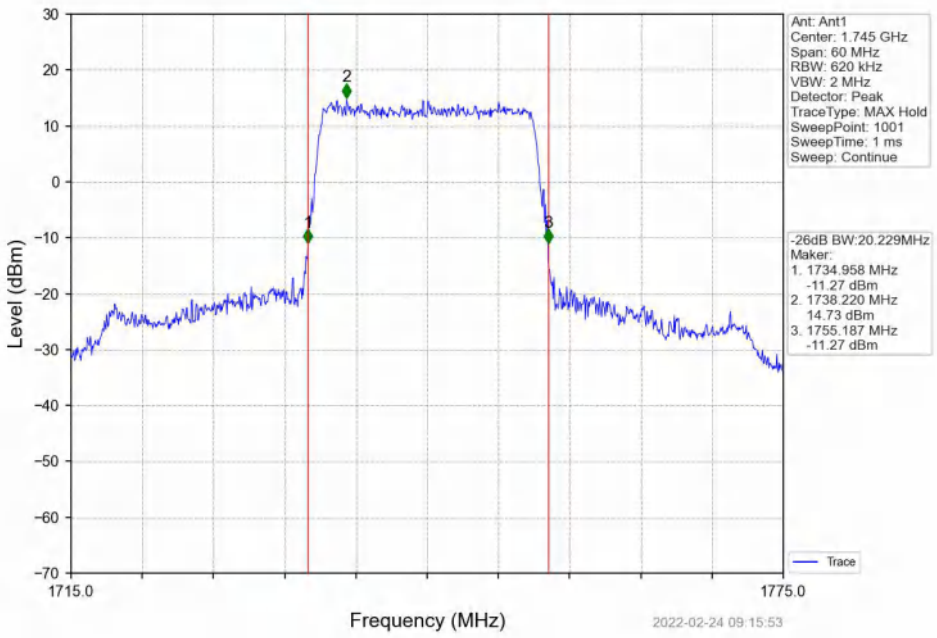
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



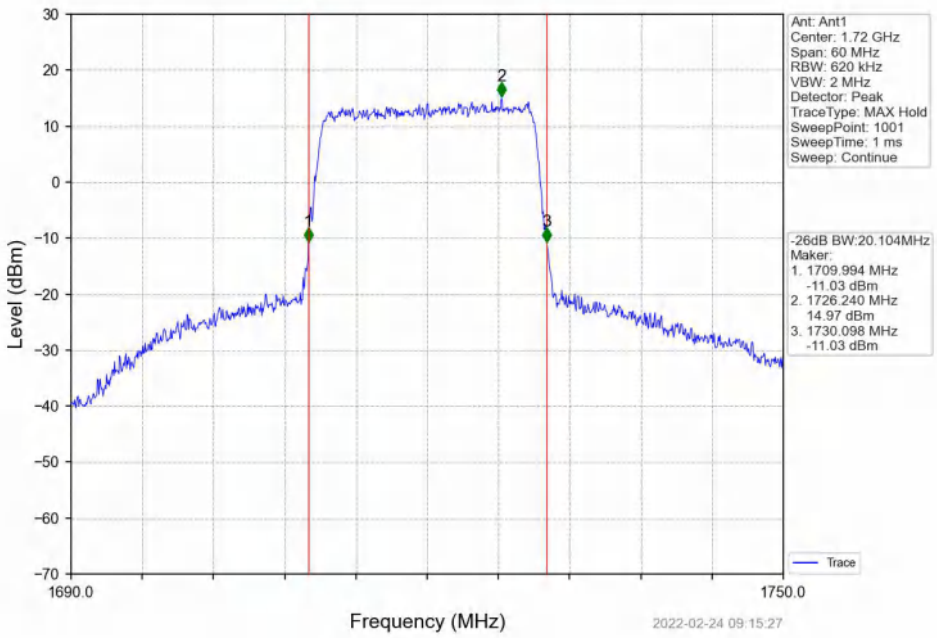
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



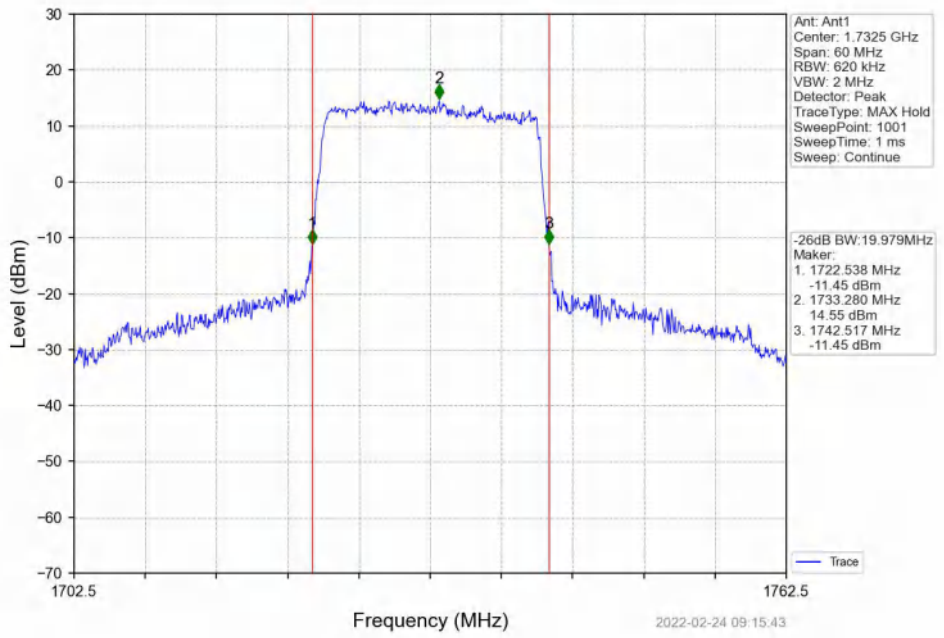
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



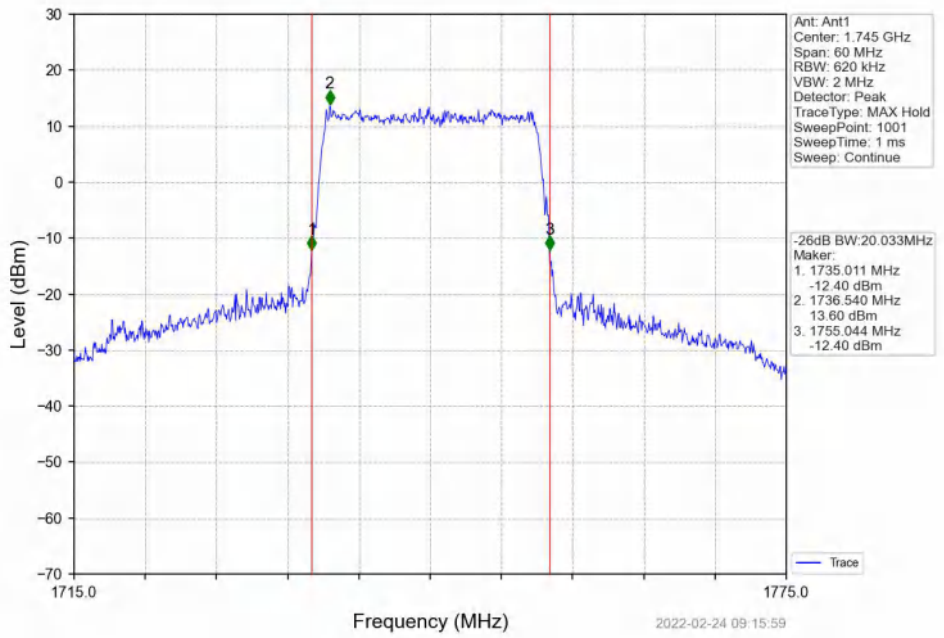
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



5. Peak-Average Ratio

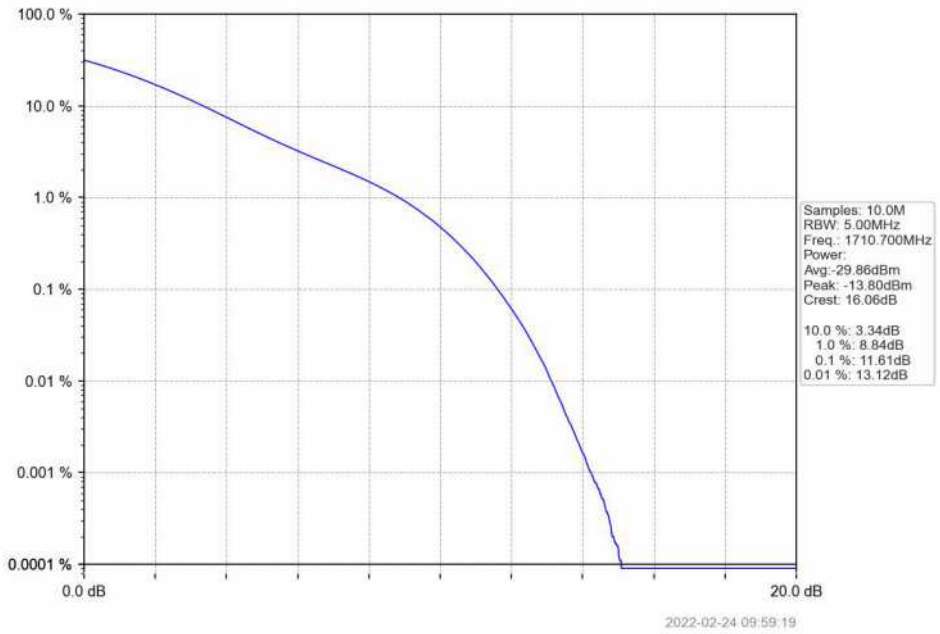
5.1 B4_1.4MHz

5.1.1 Test Result

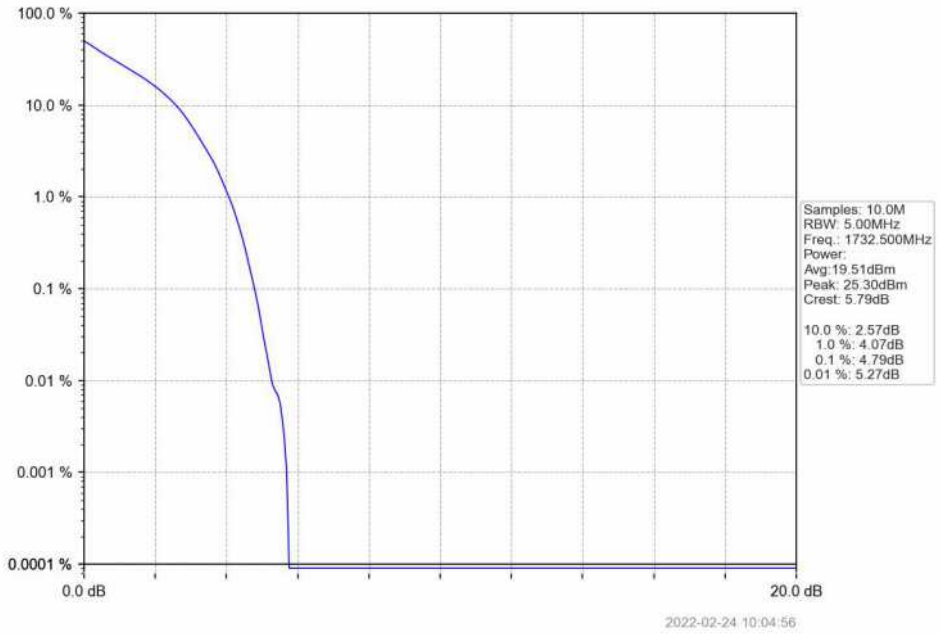
Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	11.61	<=13	Pass
	1732.5	6	0	4.79	<=13	Pass
	1754.3	6	0	4.87	<=13	Pass
16QAM	1710.7	6	0	5.82	<=13	Pass
	1732.5	6	0	5.62	<=13	Pass
	1754.3	6	0	5.74	<=13	Pass

5.1.2 Test Graph

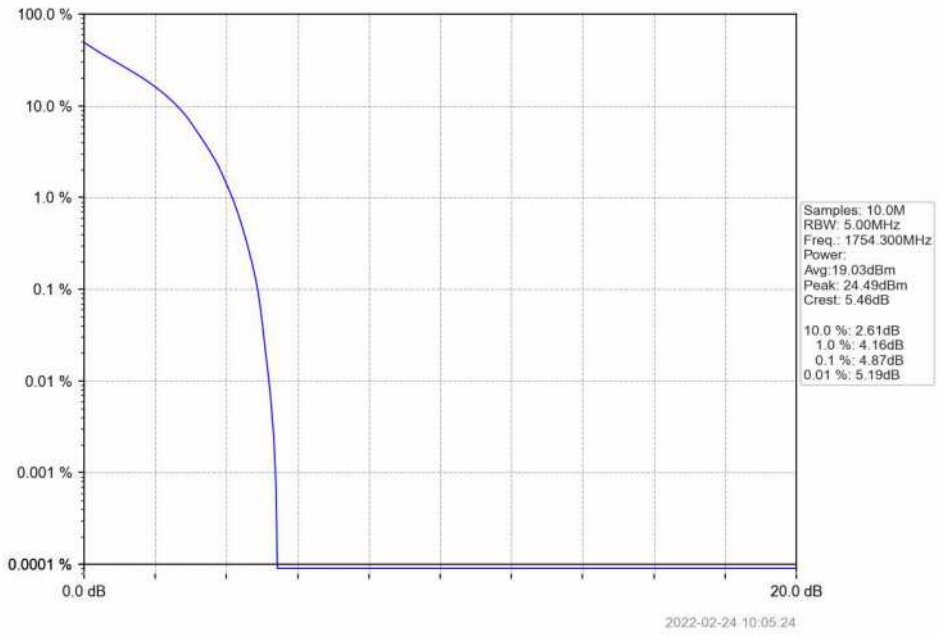
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



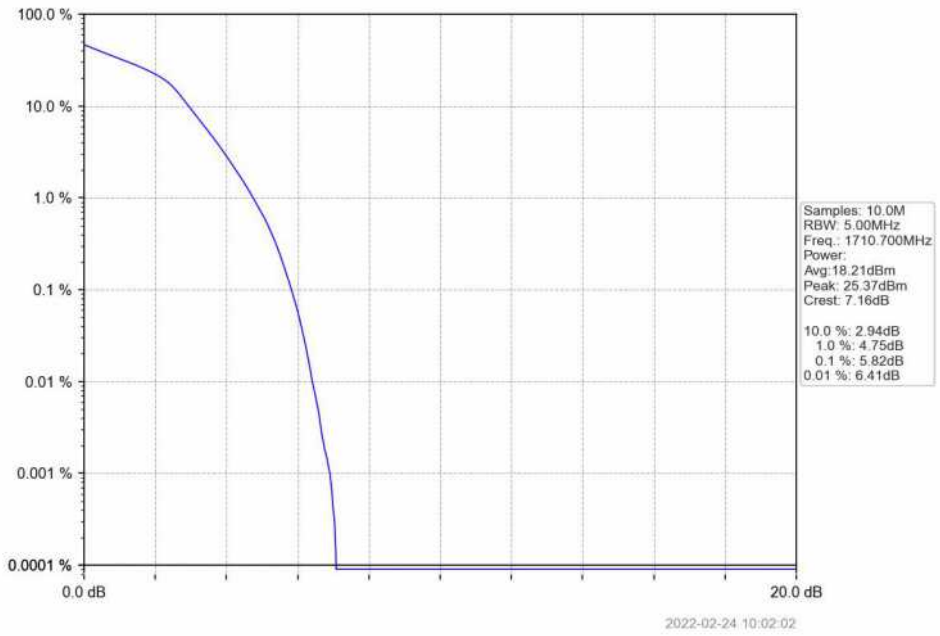
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



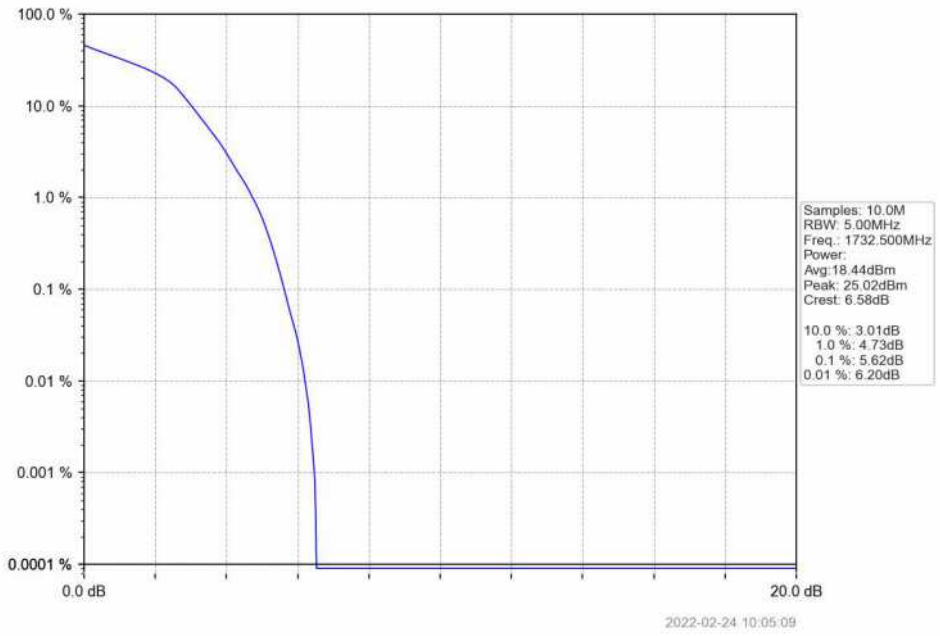
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



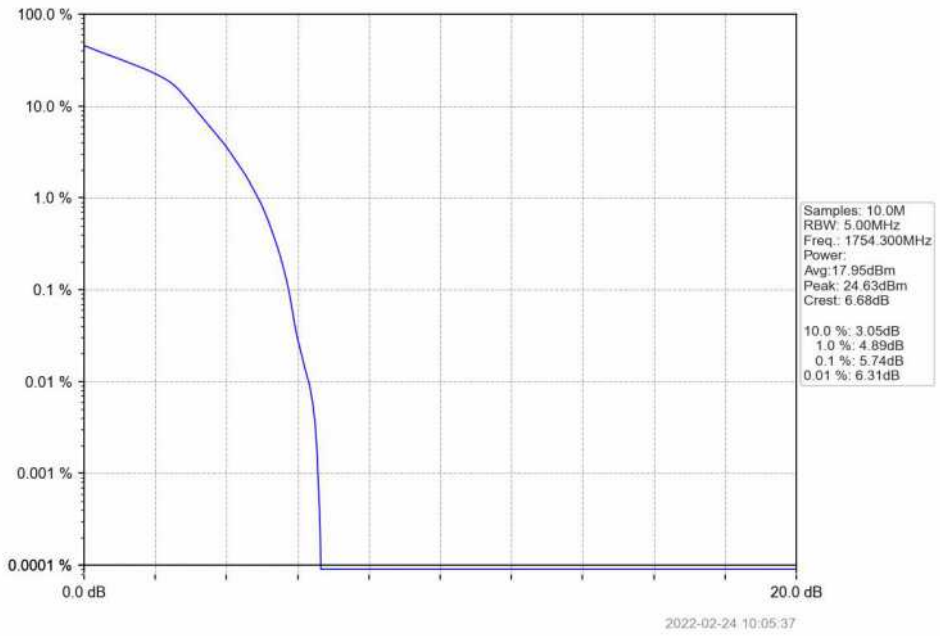
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



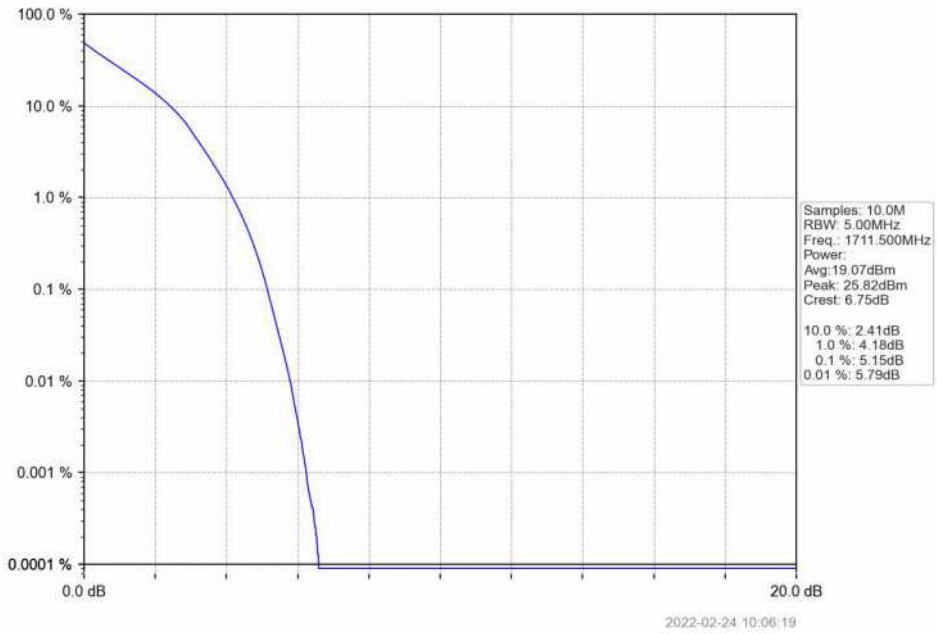
5.2 B4_3MHz

5.2.1 Test Result

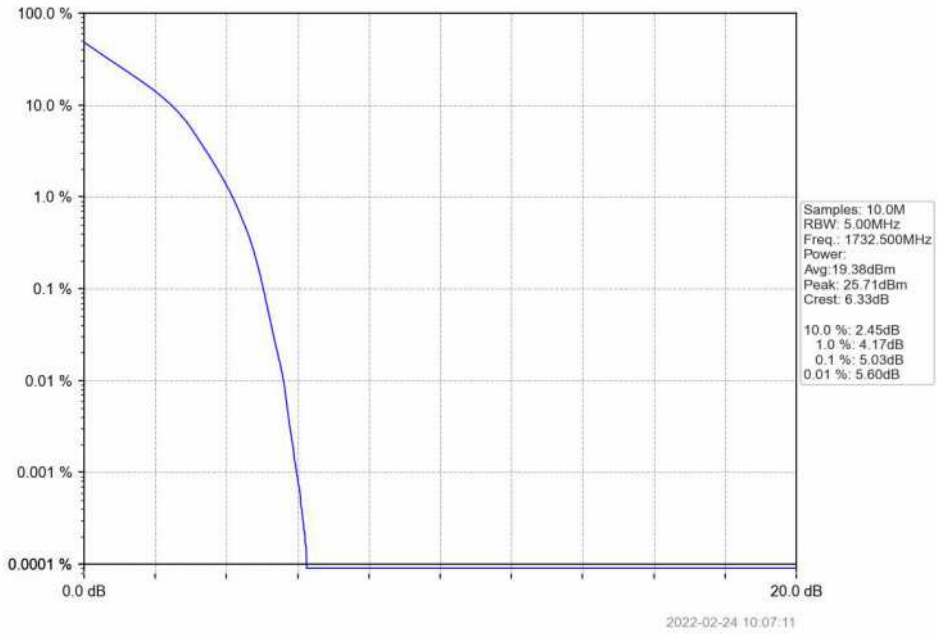
Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.15	<=13	Pass
	1732.5	15	0	5.03	<=13	Pass
	1753.5	15	0	5.07	<=13	Pass
16QAM	1711.5	15	0	10.35	<=13	Pass
	1732.5	15	0	5.85	<=13	Pass
	1753.5	15	0	5.93	<=13	Pass

5.2.2 Test Graph

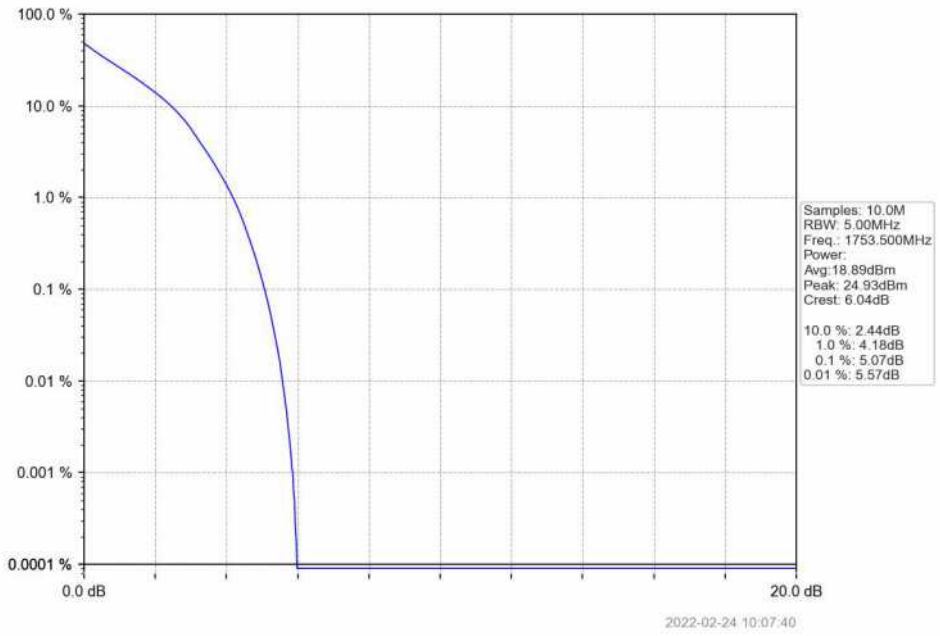
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



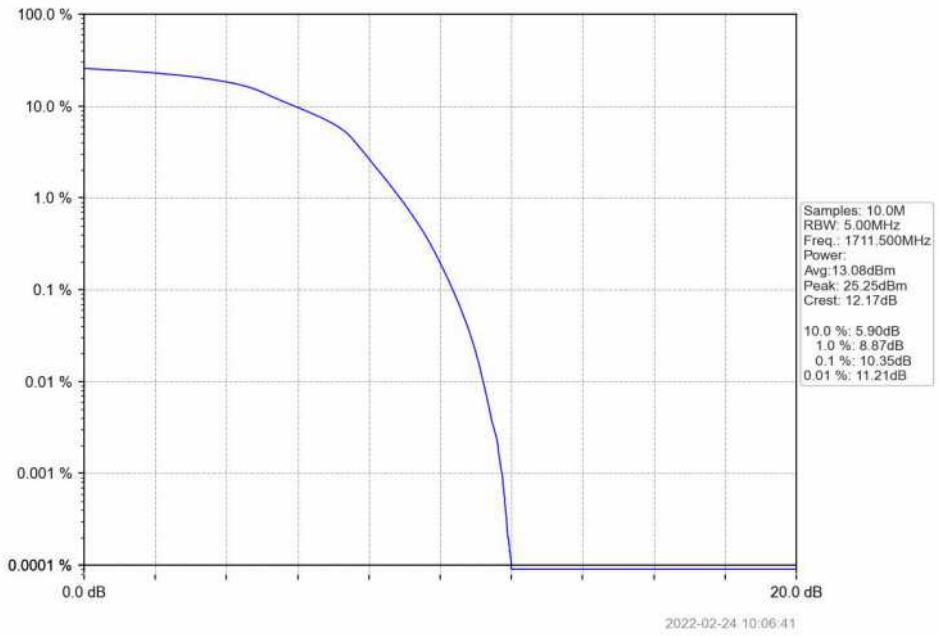
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



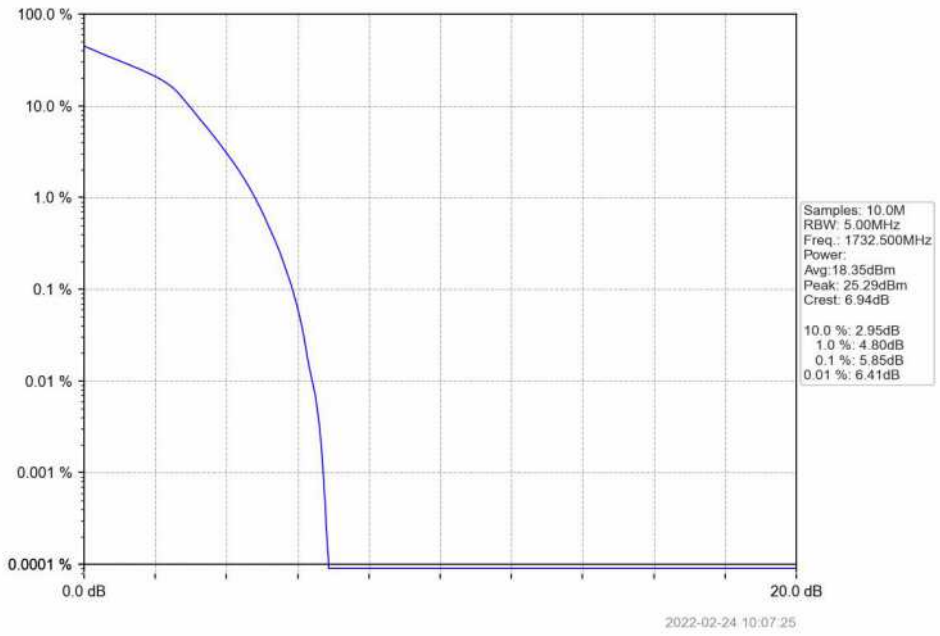
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



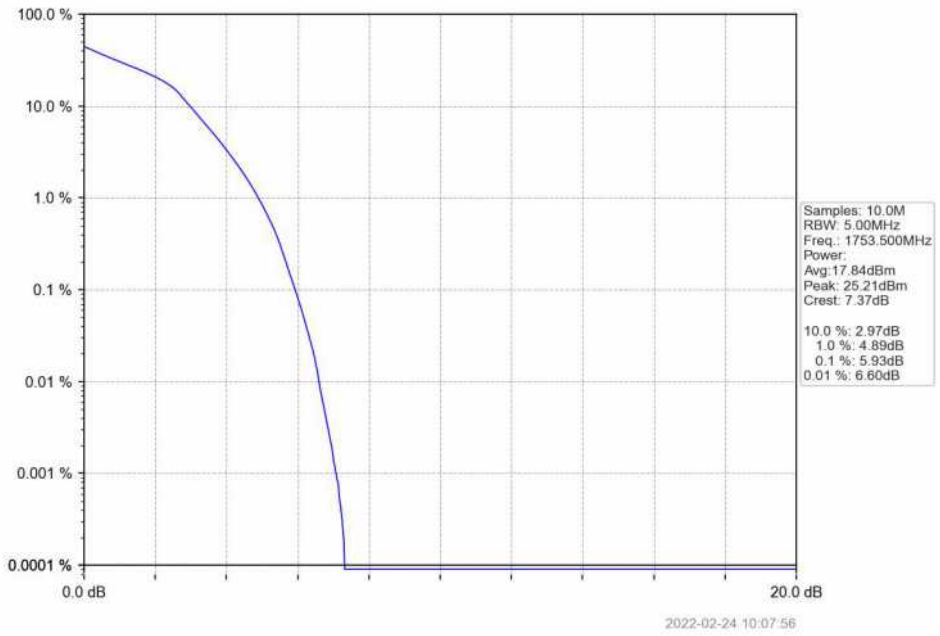
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



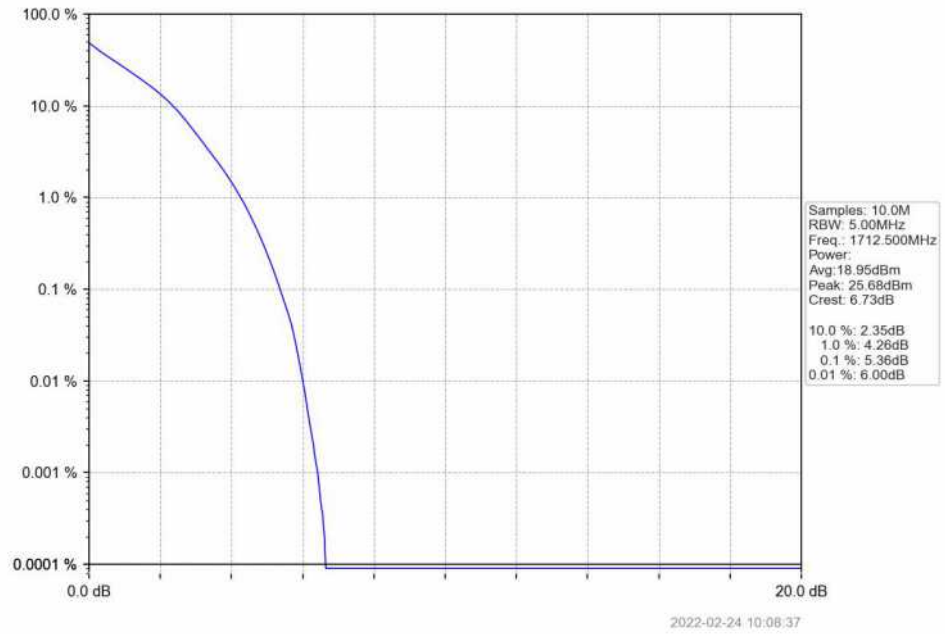
5.3 B4_5MHz

5.3.1 Test Result

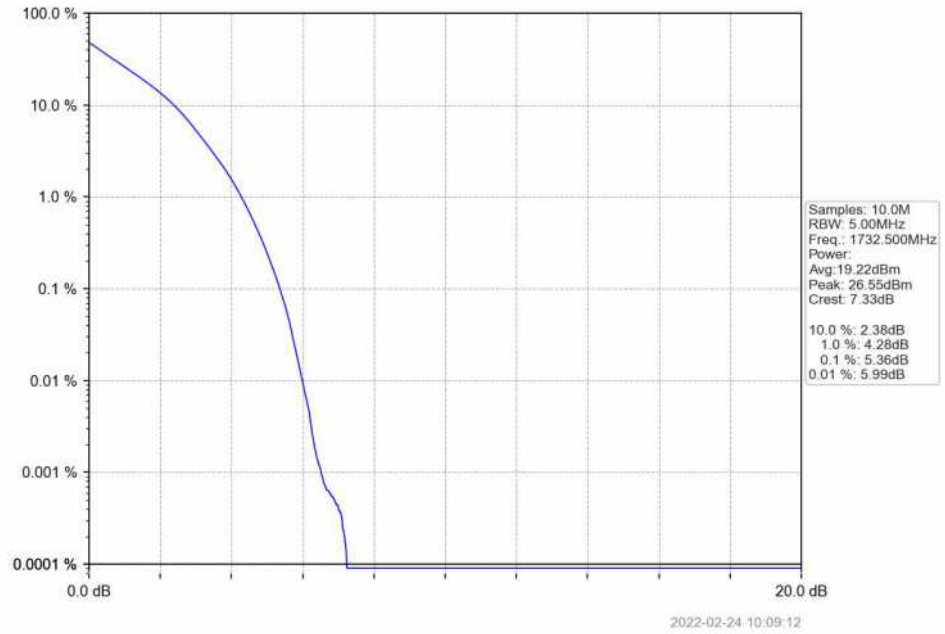
Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.36	<=13	Pass
	1732.5	25	0	5.36	<=13	Pass
	1752.5	25	0	5.46	<=13	Pass
16QAM	1712.5	25	0	6.08	<=13	Pass
	1732.5	25	0	6.13	<=13	Pass
	1752.5	25	0	6.19	<=13	Pass

5.3.2 Test Graph

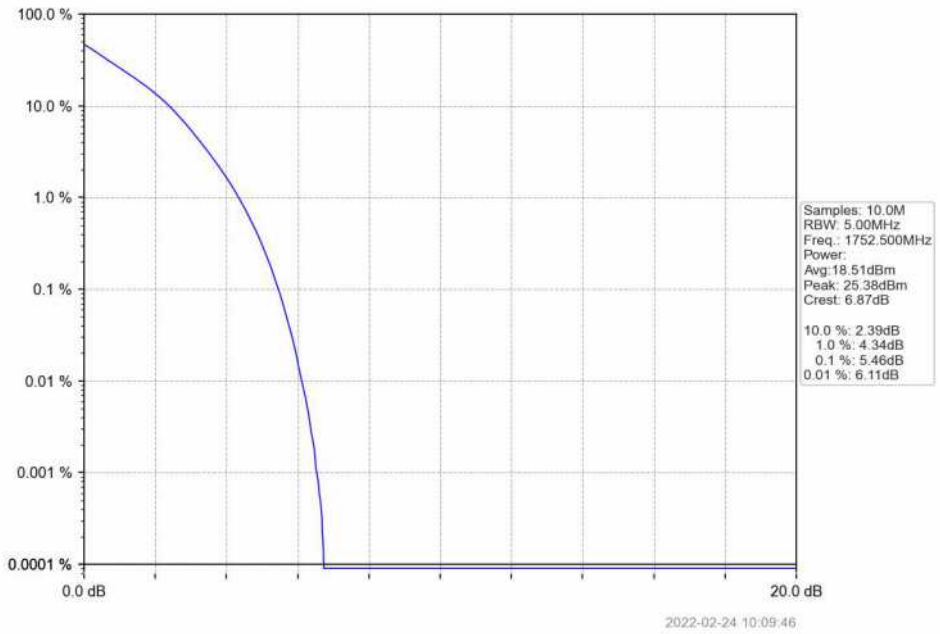
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



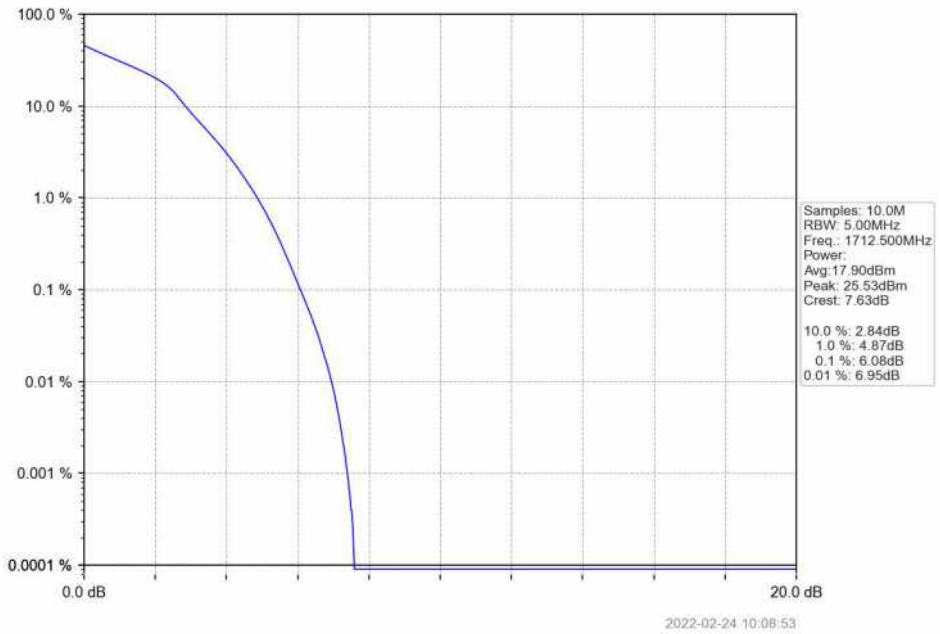
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



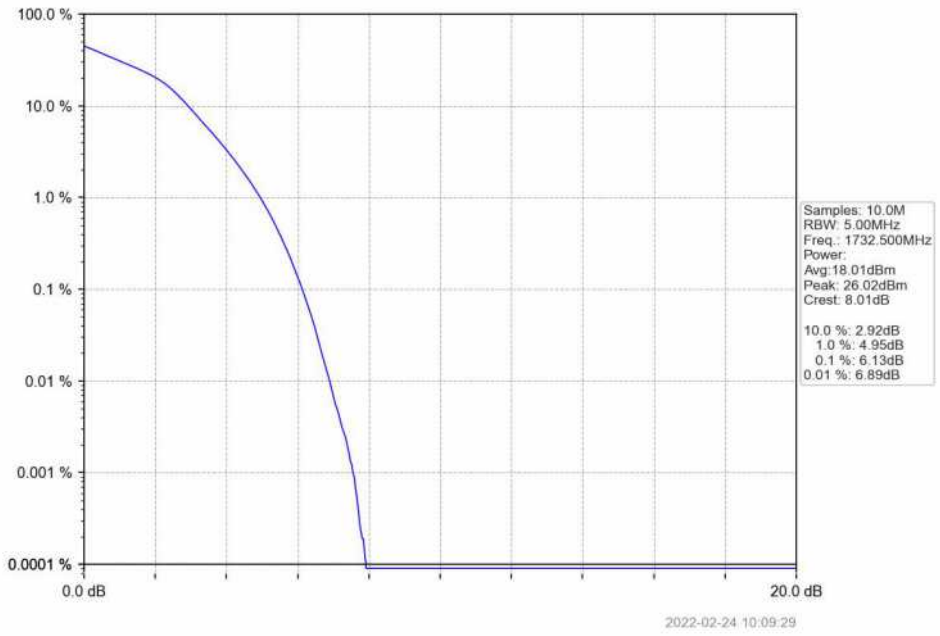
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



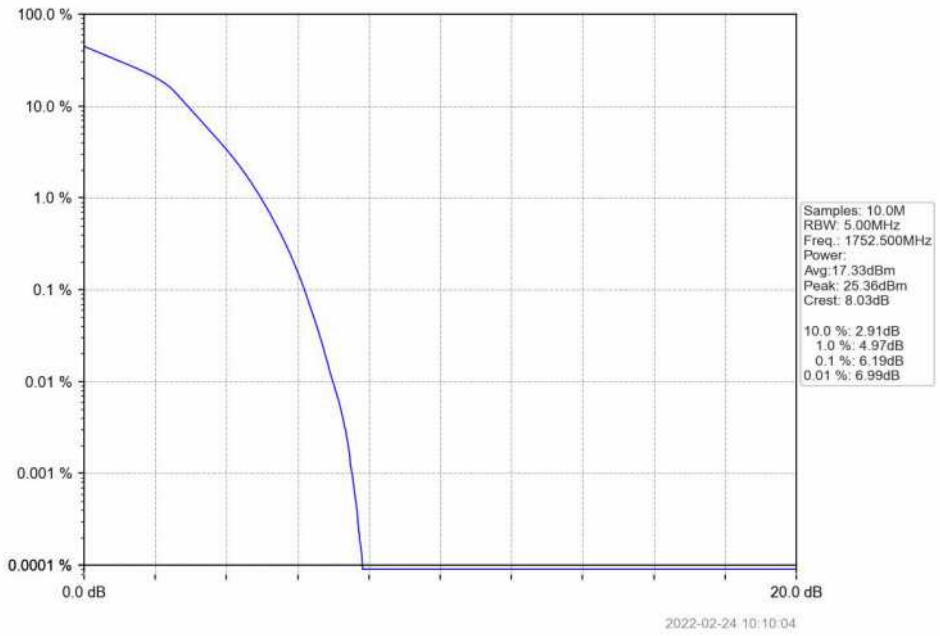
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



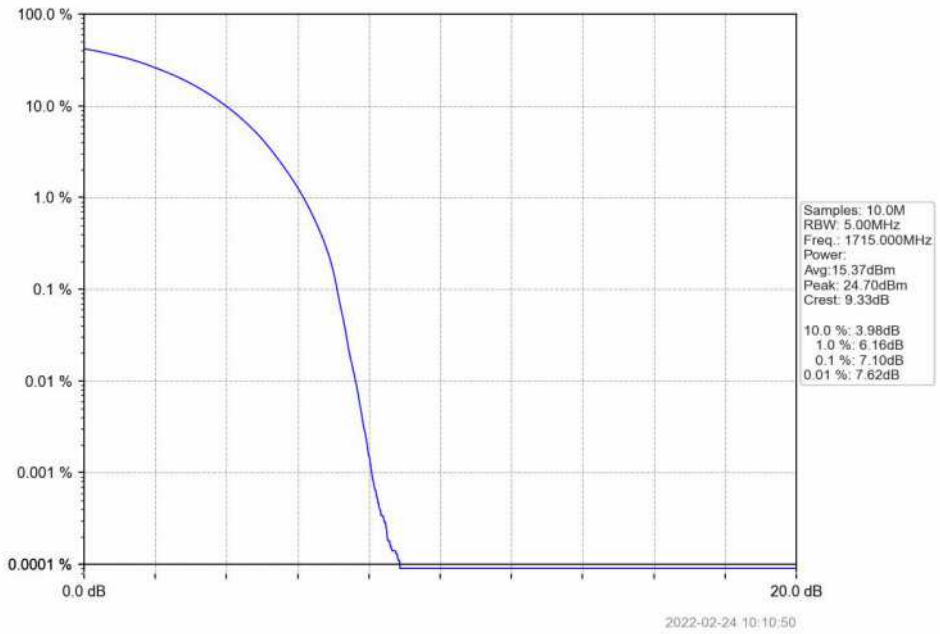
5.4 B4_10MHz

5.4.1 Test Result

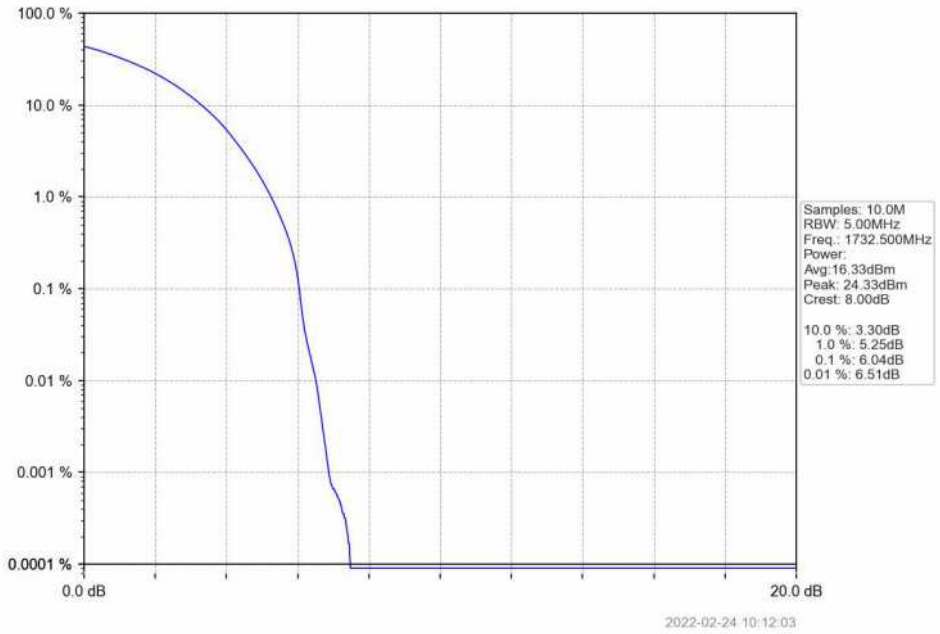
Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	7.10	<=13	Pass
	1732.5	50	0	6.04	<=13	Pass
	1750	50	0	6.07	<=13	Pass
16QAM	1715	50	0	6.73	<=13	Pass
	1732.5	50	0	6.84	<=13	Pass
	1750	50	0	6.82	<=13	Pass

5.4.2 Test Graph

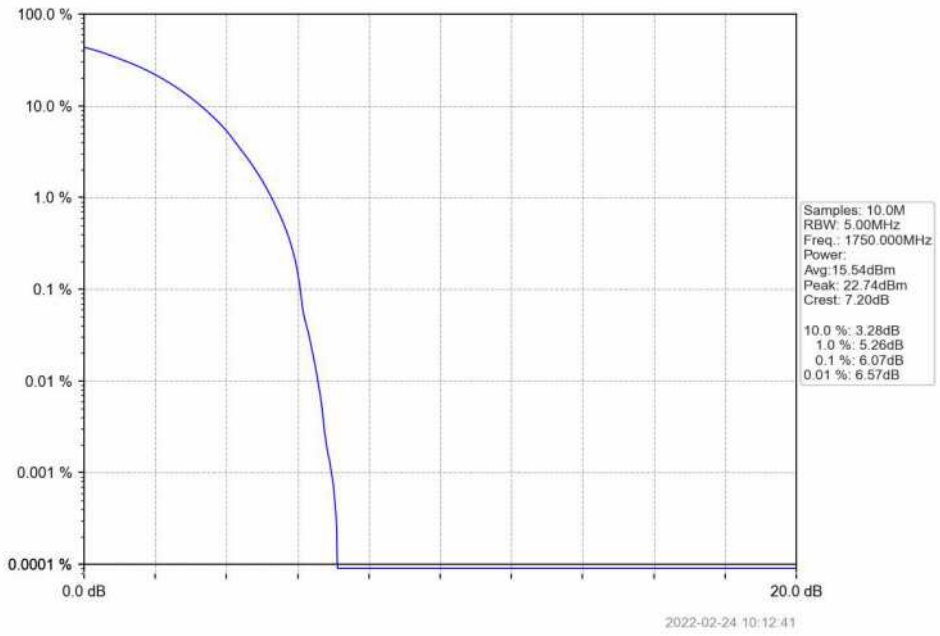
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



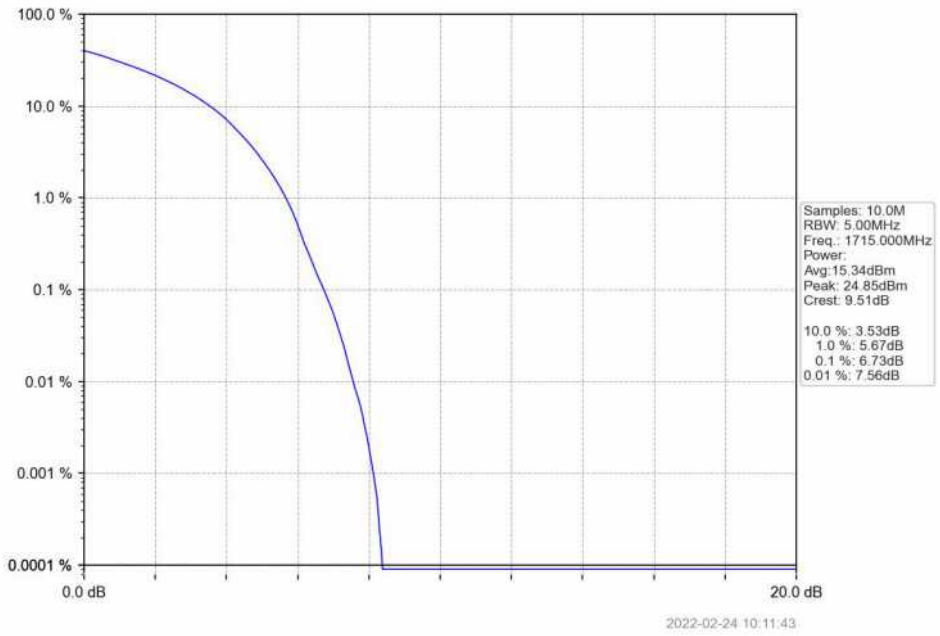
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



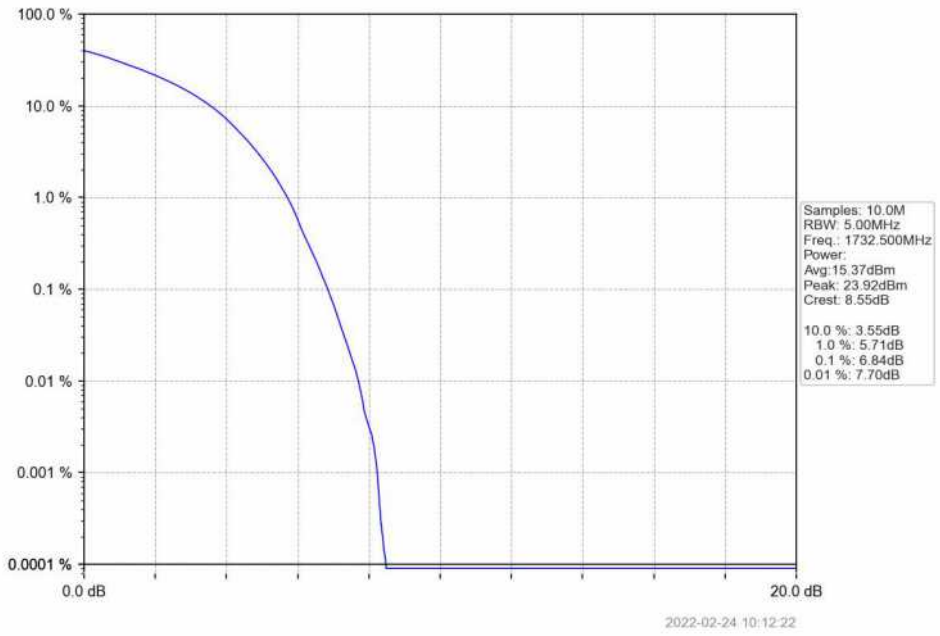
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



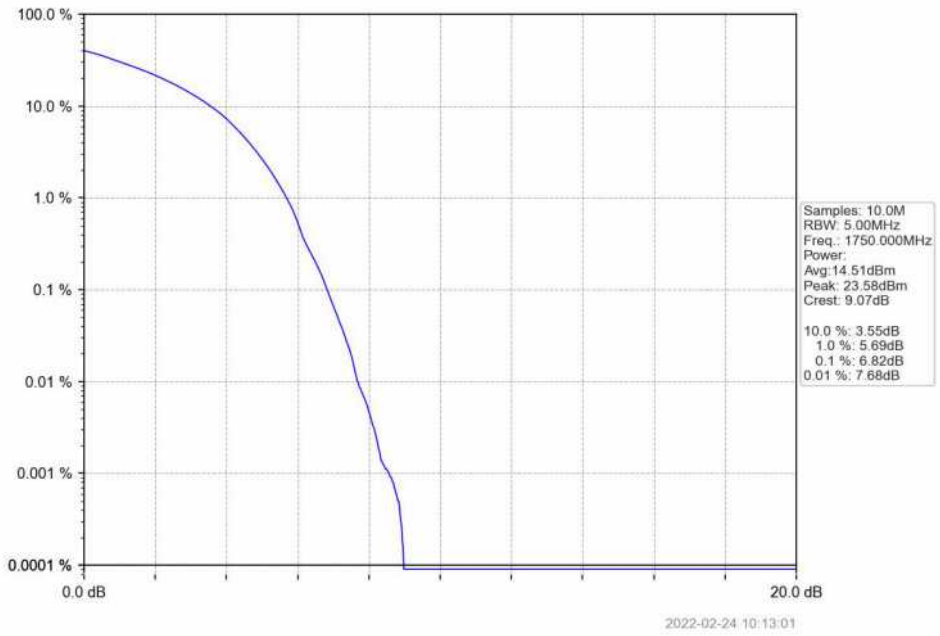
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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	6.79	<=13	Pass
	1732.5	75	0	6.73	<=13	Pass
	1747.5	75	0	6.78	<=13	Pass
16QAM	1717.5	75	0	7.30	<=13	Pass
	1732.5	75	0	7.32	<=13	Pass
	1747.5	75	0	7.32	<=13	Pass