

Appendix - LTE Band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.20	-1.56	20.64	<=30	Pass
			2	22.28	-1.56	20.72	<=30	Pass
			5	22.21	-1.56	20.65	<=30	Pass
		3	0	22.31	-1.56	20.75	<=30	Pass
			2	22.35	-1.56	20.79	<=30	Pass
			3	22.34	-1.56	20.78	<=30	Pass
	1732.5	6	0	21.26	-1.56	19.70	<=30	Pass
			0	22.63	-1.56	21.07	<=30	Pass
			2	22.76	-1.56	21.20	<=30	Pass
		1	5	22.69	-1.56	21.13	<=30	Pass
			0	22.78	-1.56	21.22	<=30	Pass
			2	22.78	-1.56	21.22	<=30	Pass
		3	3	22.78	-1.56	21.22	<=30	Pass
			0	21.70	-1.56	20.14	<=30	Pass
			0	21.70	-1.56	20.14	<=30	Pass
	1754.3	6	0	21.70	-1.56	20.14	<=30	Pass
			0	21.70	-1.56	20.14	<=30	Pass
			0	21.70	-1.56	20.14	<=30	Pass
		1	0	22.61	-1.56	21.05	<=30	Pass
			2	22.73	-1.56	21.17	<=30	Pass
			5	22.63	-1.56	21.07	<=30	Pass
		3	0	22.74	-1.56	21.18	<=30	Pass
			2	22.76	-1.56	21.20	<=30	Pass
			3	22.73	-1.56	21.17	<=30	Pass
16QAM	1710.7	6	0	21.73	-1.56	20.17	<=30	Pass
			0	21.15	-1.56	19.59	<=30	Pass
			2	21.30	-1.56	19.74	<=30	Pass
		1	5	21.21	-1.56	19.65	<=30	Pass
			0	21.48	-1.56	19.92	<=30	Pass
			2	21.51	-1.56	19.95	<=30	Pass
	1732.5	3	3	21.54	-1.56	19.98	<=30	Pass
			0	20.26	-1.56	18.70	<=30	Pass
			0	21.70	-1.56	20.14	<=30	Pass
		1	2	21.78	-1.56	20.22	<=30	Pass
			5	21.72	-1.56	20.16	<=30	Pass
			0	21.80	-1.56	20.24	<=30	Pass
		3	2	21.82	-1.56	20.26	<=30	Pass
			3	21.79	-1.56	20.23	<=30	Pass
			0	20.65	-1.56	19.09	<=30	Pass
	1754.3	6	0	20.65	-1.56	19.09	<=30	Pass
			0	21.79	-1.56	20.23	<=30	Pass
			2	21.89	-1.56	20.33	<=30	Pass
		1	5	21.77	-1.56	20.21	<=30	Pass
			0	21.66	-1.56	20.10	<=30	Pass
			2	21.70	-1.56	20.14	<=30	Pass
		3	3	21.69	-1.56	20.13	<=30	Pass
			0	20.70	-1.56	19.14	<=30	Pass
			0	20.70	-1.56	19.14	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	22.27	-1.56	20.71	<=30	Pass
			7	22.47	-1.56	20.91	<=30	Pass
			14	22.38	-1.56	20.82	<=30	Pass
		8	0	21.25	-1.56	19.69	<=30	Pass
			4	21.32	-1.56	19.76	<=30	Pass
			7	21.32	-1.56	19.76	<=30	Pass
		15	0	21.26	-1.56	19.70	<=30	Pass
	1732.5	1	0	22.58	-1.56	21.02	<=30	Pass
			7	22.76	-1.56	21.20	<=30	Pass
			14	22.59	-1.56	21.03	<=30	Pass
		8	0	21.66	-1.56	20.10	<=30	Pass
			4	21.68	-1.56	20.12	<=30	Pass
			7	21.59	-1.56	20.03	<=30	Pass
		15	0	21.61	-1.56	20.05	<=30	Pass
	1753.5	1	0	22.67	-1.56	21.11	<=30	Pass
			7	22.81	-1.56	21.25	<=30	Pass
			14	22.66	-1.56	21.10	<=30	Pass
		8	0	21.67	-1.56	20.11	<=30	Pass
			4	21.74	-1.56	20.18	<=30	Pass
			7	21.67	-1.56	20.11	<=30	Pass
		15	0	21.66	-1.56	20.10	<=30	Pass
16QAM	1711.5	1	0	21.24	-1.56	19.68	<=30	Pass
			7	21.46	-1.56	19.90	<=30	Pass
			14	21.35	-1.56	19.79	<=30	Pass
		8	0	20.30	-1.56	18.74	<=30	Pass
			4	20.41	-1.56	18.85	<=30	Pass
			7	20.38	-1.56	18.82	<=30	Pass
		15	0	20.34	-1.56	18.78	<=30	Pass
	1732.5	1	0	21.82	-1.56	20.26	<=30	Pass
			7	21.93	-1.56	20.37	<=30	Pass
			14	21.79	-1.56	20.23	<=30	Pass
		8	0	20.62	-1.56	19.06	<=30	Pass
			4	20.68	-1.56	19.12	<=30	Pass
			7	20.63	-1.56	19.07	<=30	Pass
		15	0	20.61	-1.56	19.05	<=30	Pass
	1753.5	1	0	22.20	-1.56	20.64	<=30	Pass
			7	22.28	-1.56	20.72	<=30	Pass
			14	22.13	-1.56	20.57	<=30	Pass
		8	0	20.81	-1.56	19.25	<=30	Pass
			4	20.86	-1.56	19.30	<=30	Pass
			7	20.82	-1.56	19.26	<=30	Pass
		15	0	20.73	-1.56	19.17	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	22.14	-1.56	20.58	<=30	Pass
			13	22.36	-1.56	20.80	<=30	Pass
			24	22.27	-1.56	20.71	<=30	Pass
		12	0	21.19	-1.56	19.63	<=30	Pass
			6	21.36	-1.56	19.80	<=30	Pass
			13	21.39	-1.56	19.83	<=30	Pass
		25	0	21.33	-1.56	19.77	<=30	Pass
	1732.5	1	0	22.54	-1.56	20.98	<=30	Pass

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Version: 1/00

			13	22.65	-1.56	21.09	<=30	Pass
			24	22.51	-1.56	20.95	<=30	Pass
		12	0	21.63	-1.56	20.07	<=30	Pass
			6	21.66	-1.56	20.10	<=30	Pass
			13	21.62	-1.56	20.06	<=30	Pass
		25	0	21.65	-1.56	20.09	<=30	Pass
	1752.5	1	0	22.47	-1.56	20.91	<=30	Pass
			13	22.62	-1.56	21.06	<=30	Pass
			24	22.51	-1.56	20.95	<=30	Pass
		12	0	21.50	-1.56	19.94	<=30	Pass
			6	21.65	-1.56	20.09	<=30	Pass
			13	21.63	-1.56	20.07	<=30	Pass
25		0	21.58	-1.56	20.02	<=30	Pass	
16QAM	1712.5	1	0	21.18	-1.56	19.62	<=30	Pass
			13	21.41	-1.56	19.85	<=30	Pass
			24	21.32	-1.56	19.76	<=30	Pass
		12	0	20.09	-1.56	18.53	<=30	Pass
			6	20.32	-1.56	18.76	<=30	Pass
			13	20.38	-1.56	18.82	<=30	Pass
		25	0	20.31	-1.56	18.75	<=30	Pass
	1732.5	1	0	21.83	-1.56	20.27	<=30	Pass
			13	21.94	-1.56	20.38	<=30	Pass
			24	21.84	-1.56	20.28	<=30	Pass
		12	0	20.66	-1.56	19.10	<=30	Pass
			6	20.70	-1.56	19.14	<=30	Pass
			13	20.64	-1.56	19.08	<=30	Pass
		25	0	20.67	-1.56	19.11	<=30	Pass
	1752.5	1	0	21.31	-1.56	19.75	<=30	Pass
			13	21.43	-1.56	19.87	<=30	Pass
			24	21.34	-1.56	19.78	<=30	Pass
		12	0	20.52	-1.56	18.96	<=30	Pass
			6	20.62	-1.56	19.06	<=30	Pass
			13	20.58	-1.56	19.02	<=30	Pass
		25	0	20.64	-1.56	19.08	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.22	-1.56	20.66	<=30	Pass
			25	22.57	-1.56	21.01	<=30	Pass
			49	22.43	-1.56	20.87	<=30	Pass
		25	0	21.27	-1.56	19.71	<=30	Pass
			13	21.34	-1.56	19.78	<=30	Pass
			25	21.54	-1.56	19.98	<=30	Pass
		50	0	21.40	-1.56	19.84	<=30	Pass
			0	22.65	-1.56	21.09	<=30	Pass
			25	22.83	-1.56	21.27	<=30	Pass
		1	49	22.69	-1.56	21.13	<=30	Pass
			0	21.76	-1.56	20.20	<=30	Pass
			13	21.72	-1.56	20.16	<=30	Pass
	1732.5	25	25	21.67	-1.56	20.11	<=30	Pass
			0	21.76	-1.56	20.20	<=30	Pass
			0	22.55	-1.56	20.99	<=30	Pass
		1	25	22.71	-1.56	21.15	<=30	Pass
			49	22.56	-1.56	21.00	<=30	Pass
			0	21.50	-1.56	19.94	<=30	Pass

16QAM	1715	50	13	21.59	-1.56	20.03	<=30	Pass
			25	21.71	-1.56	20.15	<=30	Pass
			0	21.60	-1.56	20.04	<=30	Pass
		1	0	21.23	-1.56	19.67	<=30	Pass
			25	21.52	-1.56	19.96	<=30	Pass
			49	21.49	-1.56	19.93	<=30	Pass
		25	0	20.35	-1.56	18.79	<=30	Pass
			13	20.45	-1.56	18.89	<=30	Pass
			25	20.65	-1.56	19.09	<=30	Pass
		50	0	20.41	-1.56	18.85	<=30	Pass
	1732.5	1	0	21.68	-1.56	20.12	<=30	Pass
			25	21.89	-1.56	20.33	<=30	Pass
			49	21.68	-1.56	20.12	<=30	Pass
		25	0	20.87	-1.56	19.31	<=30	Pass
			13	20.81	-1.56	19.25	<=30	Pass
			25	20.78	-1.56	19.22	<=30	Pass
		50	0	20.81	-1.56	19.25	<=30	Pass
	1750	1	0	21.71	-1.56	20.15	<=30	Pass
			25	21.87	-1.56	20.31	<=30	Pass
			49	21.73	-1.56	20.17	<=30	Pass
		25	0	20.53	-1.56	18.97	<=30	Pass
			13	20.62	-1.56	19.06	<=30	Pass
			25	20.76	-1.56	19.20	<=30	Pass
		50	0	20.61	-1.56	19.05	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.18	-1.56	20.62	<=30	Pass
			38	22.45	-1.56	20.89	<=30	Pass
			74	22.48	-1.56	20.92	<=30	Pass
		36	0	21.32	-1.56	19.76	<=30	Pass
			18	21.48	-1.56	19.92	<=30	Pass
			39	21.63	-1.56	20.07	<=30	Pass
		75	0	21.49	-1.56	19.93	<=30	Pass
	1732.5	1	0	22.50	-1.56	20.94	<=30	Pass
			38	22.63	-1.56	21.07	<=30	Pass
			74	22.55	-1.56	20.99	<=30	Pass
		36	0	21.73	-1.56	20.17	<=30	Pass
			18	21.73	-1.56	20.17	<=30	Pass
			39	21.71	-1.56	20.15	<=30	Pass
		75	0	21.72	-1.56	20.16	<=30	Pass
	1747.5	1	0	22.51	-1.56	20.95	<=30	Pass
			38	22.61	-1.56	21.05	<=30	Pass
			74	22.56	-1.56	21.00	<=30	Pass
		36	0	21.61	-1.56	20.05	<=30	Pass
			18	21.68	-1.56	20.12	<=30	Pass
			39	21.76	-1.56	20.20	<=30	Pass
		75	0	21.71	-1.56	20.15	<=30	Pass
16QAM	1717.5	1	0	21.48	-1.56	19.92	<=30	Pass
			38	21.78	-1.56	20.22	<=30	Pass
			74	21.85	-1.56	20.29	<=30	Pass
		36	0	20.26	-1.56	18.70	<=30	Pass
			18	20.46	-1.56	18.90	<=30	Pass
			39	20.52	-1.56	18.96	<=30	Pass
		75	0	20.41	-1.56	18.85	<=30	Pass

	1732.5	1	0	21.70	-1.56	20.14	<=30	Pass
			38	21.84	-1.56	20.28	<=30	Pass
			74	21.75	-1.56	20.19	<=30	Pass
		36	0	20.71	-1.56	19.15	<=30	Pass
			18	20.71	-1.56	19.15	<=30	Pass
			39	20.73	-1.56	19.17	<=30	Pass
		75	0	20.74	-1.56	19.18	<=30	Pass
	1747.5	1	0	22.07	-1.56	20.51	<=30	Pass
			38	22.11	-1.56	20.55	<=30	Pass
			74	22.04	-1.56	20.48	<=30	Pass
		36	0	20.61	-1.56	19.05	<=30	Pass
			18	20.67	-1.56	19.11	<=30	Pass
			39	20.76	-1.56	19.20	<=30	Pass
		75	0	20.69	-1.56	19.13	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.11	-1.56	20.55	<=30	Pass
			50	22.62	-1.56	21.06	<=30	Pass
			99	22.49	-1.56	20.93	<=30	Pass
		50	0	21.18	-1.56	19.62	<=30	Pass
			25	21.49	-1.56	19.93	<=30	Pass
			50	21.45	-1.56	19.89	<=30	Pass
	1732.5	1	0	21.33	-1.56	19.77	<=30	Pass
			0	22.42	-1.56	20.86	<=30	Pass
			50	22.88	-1.56	21.32	<=30	Pass
		50	0	22.55	-1.56	20.99	<=30	Pass
			0	21.76	-1.56	20.20	<=30	Pass
			25	21.71	-1.56	20.15	<=30	Pass
	1745	1	50	21.59	-1.56	20.03	<=30	Pass
			0	21.69	-1.56	20.13	<=30	Pass
			0	22.46	-1.56	20.90	<=30	Pass
		50	0	22.80	-1.56	21.24	<=30	Pass
			99	22.48	-1.56	20.92	<=30	Pass
			0	21.53	-1.56	19.97	<=30	Pass
16QAM	1720	1	25	21.59	-1.56	20.03	<=30	Pass
			50	21.78	-1.56	20.22	<=30	Pass
			0	21.67	-1.56	20.11	<=30	Pass
		50	0	21.59	-1.56	20.03	<=30	Pass
			50	22.13	-1.56	20.57	<=30	Pass
			99	22.01	-1.56	20.45	<=30	Pass
	1732.5	1	0	20.20	-1.56	18.64	<=30	Pass
			25	20.50	-1.56	18.94	<=30	Pass
			50	20.50	-1.56	18.94	<=30	Pass
		50	0	20.38	-1.56	18.82	<=30	Pass
			0	21.59	-1.56	20.03	<=30	Pass
			50	21.99	-1.56	20.43	<=30	Pass
	1745	1	99	21.70	-1.56	20.14	<=30	Pass
			0	20.79	-1.56	19.23	<=30	Pass
			25	20.70	-1.56	19.14	<=30	Pass
		50	50	20.64	-1.56	19.08	<=30	Pass
			0	20.72	-1.56	19.16	<=30	Pass
			0	21.82	-1.56	20.26	<=30	Pass

		50	0	20.61	-1.56	19.05	<=30	Pass
			25	20.60	-1.56	19.04	<=30	Pass
			50	20.81	-1.56	19.25	<=30	Pass
		100	0	20.68	-1.56	19.12	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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	-8.454	-0.0049	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0055	-2.5 to 2.5	Pass
					4.43	-8.354	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-7.596	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-7.381	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-9.098	-0.0053	-2.5 to 2.5	Pass
				0	3.85	-9.327	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-8.483	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-7.682	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-6.309	-0.0037	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-8.912	-0.0051	-2.5 to 2.5	Pass
					3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
					4.43	-5.708	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-3.390	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-6.123	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-3.576	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-4.764	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				40	3.85	0.715	0.0004	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0032	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-3.548	-0.0020	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.701	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-3.934	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-4.048	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-12.202	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-2.832	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-6.752	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-9.742	-0.0056	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-5.193	-0.0030	-2.5 to 2.5	Pass
					3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
					4.43	-3.691	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-11.172	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-10.271	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-0.958	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-6.938	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass

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Version: 1/00

	1732.5	6	0	50	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				20	3.27	-5.908	-0.0034	-2.5 to 2.5	Pass
					3.85	-8.497	-0.0049	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.276	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-6.466	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-7.668	-0.0044	-2.5 to 2.5	Pass
	1754.3	6	0	40	3.85	-4.549	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-7.439	-0.0043	-2.5 to 2.5	Pass
				20	3.27	0.830	0.0005	-2.5 to 2.5	Pass
					3.85	-6.080	-0.0035	-2.5 to 2.5	Pass
					4.43	-7.896	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-9.155	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-10.543	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-4.606	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-6.680	-0.0038	-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	-9.227	-0.0054	-2.5 to 2.5	Pass
					3.85	-5.221	-0.0031	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-1.874	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-6.022	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-8.483	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-9.470	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-2.561	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
	1732.5	15	0	50	3.85	-3.862	-0.0023	-2.5 to 2.5	Pass
				20	3.27	-2.332	-0.0013	-2.5 to 2.5	Pass
					3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
					4.43	-7.224	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-3.748	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-8.540	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-4.034	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
	1753.5	15	0	40	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				20	3.27	-4.807	-0.0027	-2.5 to 2.5	Pass
					3.85	-5.465	-0.0031	-2.5 to 2.5	Pass
					4.43	-10.557	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-9.370	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-7.539	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-10.772	-0.0061	-2.5 to 2.5	Pass

16QAM	1711.5	15	0	30	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-7.439	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-8.712	-0.0050	-2.5 to 2.5	Pass
				20	3.27	-3.061	-0.0018	-2.5 to 2.5	Pass
					3.85	0.172	0.0001	-2.5 to 2.5	Pass
					4.43	-4.020	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-7.396	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-1.245	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
	1732.5	15	0	10	3.85	0.787	0.0005	-2.5 to 2.5	Pass
				30	3.85	-4.578	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-7.324	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-6.680	-0.0039	-2.5 to 2.5	Pass
				20	3.27	-5.922	-0.0034	-2.5 to 2.5	Pass
					3.85	-0.772	-0.0004	-2.5 to 2.5	Pass
					4.43	0.601	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-4.692	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-5.121	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass
	1753.5	15	0	0	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-5.765	-0.0033	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				40	3.85	-4.292	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				20	3.27	-9.627	-0.0055	-2.5 to 2.5	Pass
					3.85	-8.383	-0.0048	-2.5 to 2.5	Pass
					4.43	-14.005	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-8.368	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
				-10	3.85	-7.710	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-8.984	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-9.027	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-5.550	-0.0032	-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	-3.290	-0.0019	-2.5 to 2.5	Pass
					3.85	-4.935	-0.0029	-2.5 to 2.5	Pass
					4.43	-0.143	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-2.818	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-7.639	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-8.240	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-0.944	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-5.536	-0.0032	-2.5 to 2.5	Pass
					3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
					4.43	-5.894	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass

				0	3.85	-2.146	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-9.284	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-9.012	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-9.084	-0.0052	-2.5 to 2.5	Pass
					3.85	-7.553	-0.0043	-2.5 to 2.5	Pass
					4.43	-2.489	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-10.071	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-10.228	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-10.328	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-7.939	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-7.167	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-8.454	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-9.484	-0.0054	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-3.376	-0.0020	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0034	-2.5 to 2.5	Pass
					4.43	-7.796	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-6.309	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-5.221	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-8.740	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-7.868	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				40	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.272	0.0002	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-2.575	-0.0015	-2.5 to 2.5	Pass
					3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
					4.43	-3.934	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	-7.124	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-5.565	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-4.964	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-2.203	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-0.601	-0.0003	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-10.600	-0.0060	-2.5 to 2.5	Pass
					3.85	-5.293	-0.0030	-2.5 to 2.5	Pass
					4.43	-6.094	-0.0035	-2.5 to 2.5	Pass
				-30	3.85	-9.842	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-12.102	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-4.621	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-5.436	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-4.606	-0.0026	-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	-3.462	-0.0020	-2.5 to 2.5	Pass
					3.85	-5.937	-0.0035	-2.5 to 2.5	Pass
					4.43	-5.965	-0.0035	-2.5 to 2.5	Pass
				-30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass

16QAM	1732.5	50	0	-20	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-3.247	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.216	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-4.334	-0.0025	-2.5 to 2.5	Pass
				50	3.85	-4.921	-0.0029	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-8.068	-0.0047	-2.5 to 2.5	Pass
					3.85	-5.865	-0.0034	-2.5 to 2.5	Pass
					4.43	-8.726	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-7.882	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-5.994	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-4.249	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-6.366	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0009	-2.5 to 2.5	Pass
				50	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				20	3.27	-3.490	-0.0020	-2.5 to 2.5	Pass
					3.85	-12.474	-0.0071	-2.5 to 2.5	Pass
					4.43	-7.639	-0.0044	-2.5 to 2.5	Pass
	1715	50	0	-30	3.85	-5.851	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-7.324	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-8.669	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-5.980	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-7.181	-0.0041	-2.5 to 2.5	Pass
				40	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-4.435	-0.0025	-2.5 to 2.5	Pass
				20	3.27	-9.298	-0.0054	-2.5 to 2.5	Pass
					3.85	-8.969	-0.0052	-2.5 to 2.5	Pass
					4.43	-4.735	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-11.916	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-8.755	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-8.326	-0.0049	-2.5 to 2.5	Pass
16QAM	1732.5	50	0	0	3.85	-11.301	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-7.725	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-9.384	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-5.450	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-5.193	-0.0030	-2.5 to 2.5	Pass
				20	3.27	-3.862	-0.0022	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
					4.43	-5.422	-0.0031	-2.5 to 2.5	Pass
				-30	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.160	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-3.648	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-6.051	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-2.518	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-5.364	-0.0031	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-3.319	-0.0019	-2.5 to 2.5	Pass
					3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
					4.43	-5.980	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-7.067	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-5.207	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-8.397	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-6.981	-0.0040	-2.5 to 2.5	Pass

				30	3.85	-7.539	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-7.796	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-4.907	-0.0028	-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	-5.250	-0.0031	-2.5 to 2.5	Pass
					3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
					4.43	-6.766	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-3.705	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-3.562	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-5.550	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-5.364	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-6.952	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-2.332	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-5.908	-0.0034	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-8.640	-0.0050	-2.5 to 2.5	Pass
					3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-4.320	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-5.822	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-4.849	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-6.480	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-7.367	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-6.309	-0.0036	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-4.377	-0.0025	-2.5 to 2.5	Pass
					3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
					4.43	-7.524	-0.0043	-2.5 to 2.5	Pass
				-30	3.85	-4.063	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-5.393	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-4.764	-0.0027	-2.5 to 2.5	Pass
				30	3.85	-6.108	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-6.337	-0.0036	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-6.423	-0.0037	-2.5 to 2.5	Pass
					3.85	-6.280	-0.0037	-2.5 to 2.5	Pass
					4.43	-4.821	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-5.307	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-6.695	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-3.076	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-3.533	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.436	-0.0031	-2.5 to 2.5	Pass
					3.85	-2.732	-0.0016	-2.5 to 2.5	Pass
					4.43	-5.021	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-4.835	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-6.523	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-6.409	-0.0037	-2.5 to 2.5	Pass

				0	3.85	-6.652	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-7.181	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-6.166	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-9.584	-0.0055	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-6.938	-0.0040	-2.5 to 2.5	Pass
					3.85	-7.768	-0.0044	-2.5 to 2.5	Pass
					4.43	-6.366	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-8.254	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-4.964	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-6.623	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-7.424	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-6.452	-0.0037	-2.5 to 2.5	Pass
				40	3.85	-8.225	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-6.509	-0.0037	-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	-6.680	-0.0039	-2.5 to 2.5	Pass
					3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
					4.43	-7.095	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-6.738	-0.0039	-2.5 to 2.5	Pass
				-20	3.85	-8.068	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				0	3.85	-6.380	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-7.882	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-7.839	-0.0046	-2.5 to 2.5	Pass
				40	3.85	-7.310	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-2.933	-0.0017	-2.5 to 2.5	Pass
					3.85	-7.153	-0.0041	-2.5 to 2.5	Pass
					4.43	-3.490	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-5.021	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-4.263	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-6.623	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-0.687	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-6.838	-0.0039	-2.5 to 2.5	Pass
					3.85	-4.277	-0.0025	-2.5 to 2.5	Pass
					4.43	-4.849	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-4.964	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-8.841	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-5.164	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-6.409	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-3.605	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-6.523	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-7.625	-0.0044	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-4.420	-0.0026	-2.5 to 2.5	Pass
					3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-7.911	-0.0046	-2.5 to 2.5	Pass

				-20	3.85	-5.522	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	-4.406	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-9.127	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-5.636	-0.0033	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-6.881	-0.0040	-2.5 to 2.5	Pass
					3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
					4.43	-6.294	-0.0036	-2.5 to 2.5	Pass
					3.85	-3.233	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-4.749	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-2.961	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-3.705	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-4.492	-0.0026	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-4.120	-0.0024	-2.5 to 2.5	Pass
					3.85	-6.866	-0.0039	-2.5 to 2.5	Pass
					4.43	-5.593	-0.0032	-2.5 to 2.5	Pass
					3.85	-5.994	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-8.068	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-6.766	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-4.520	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-5.708	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-5.836	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-6.323	-0.0036	-2.5 to 2.5	Pass
				50	3.85				Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

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

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

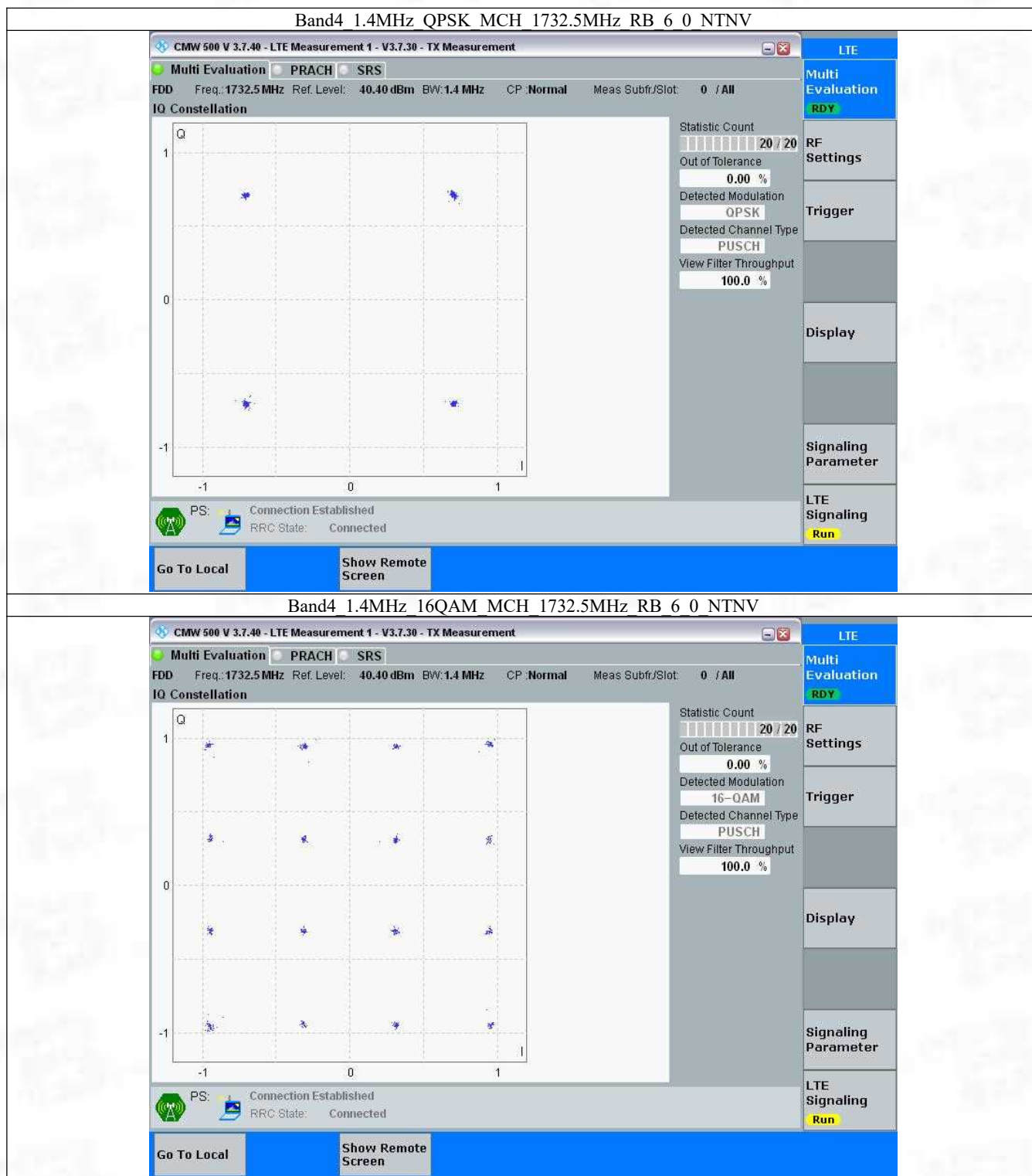
Band: 4 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	75	0	Refer To Test Graph	
16QAM	1732.5	75	0	Refer To Test Graph	

3.1.6 B4_20MHz

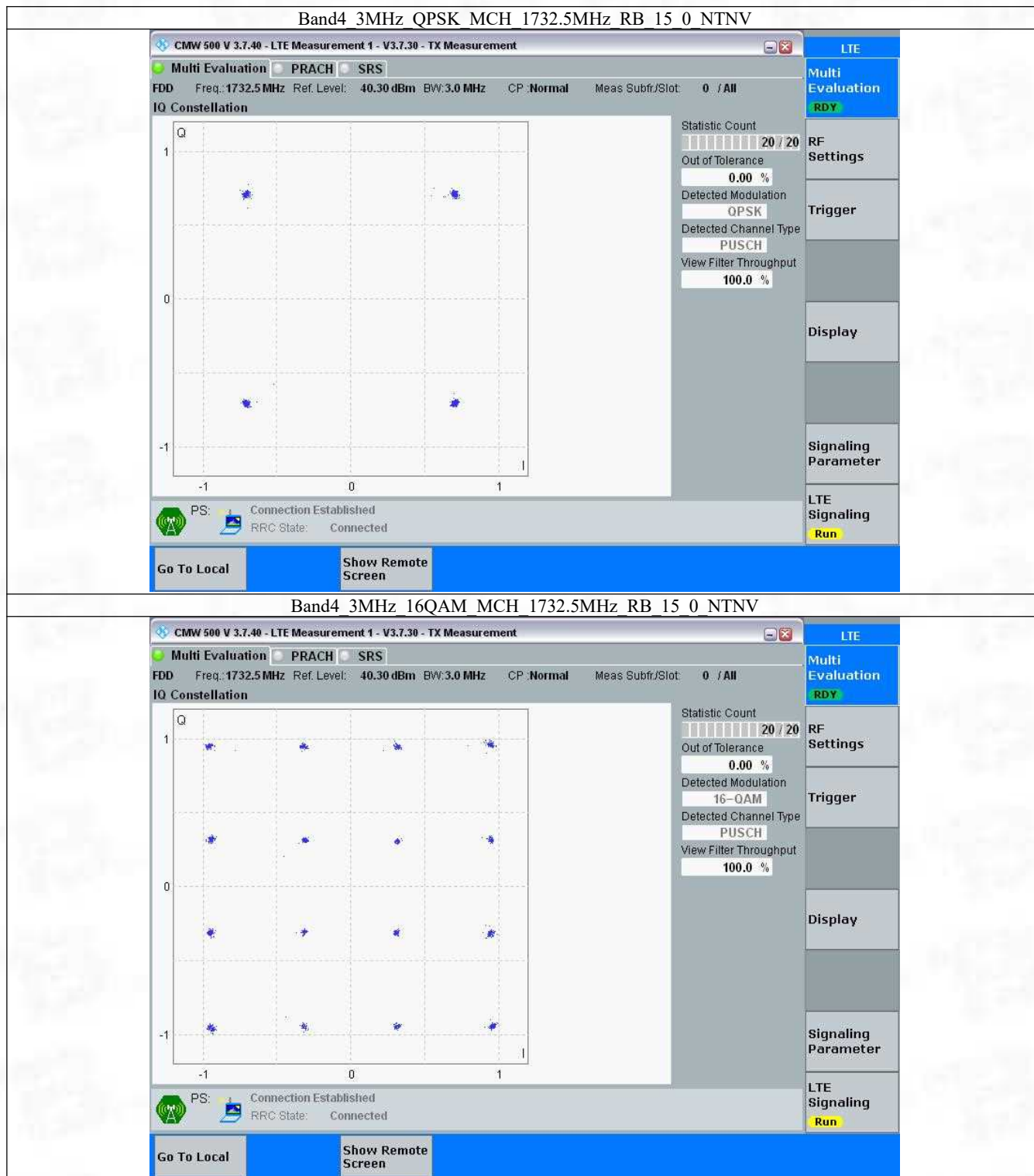
Band: 4 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	
16QAM	1732.5	100	0	Refer To Test Graph	

3.2 Test Graph

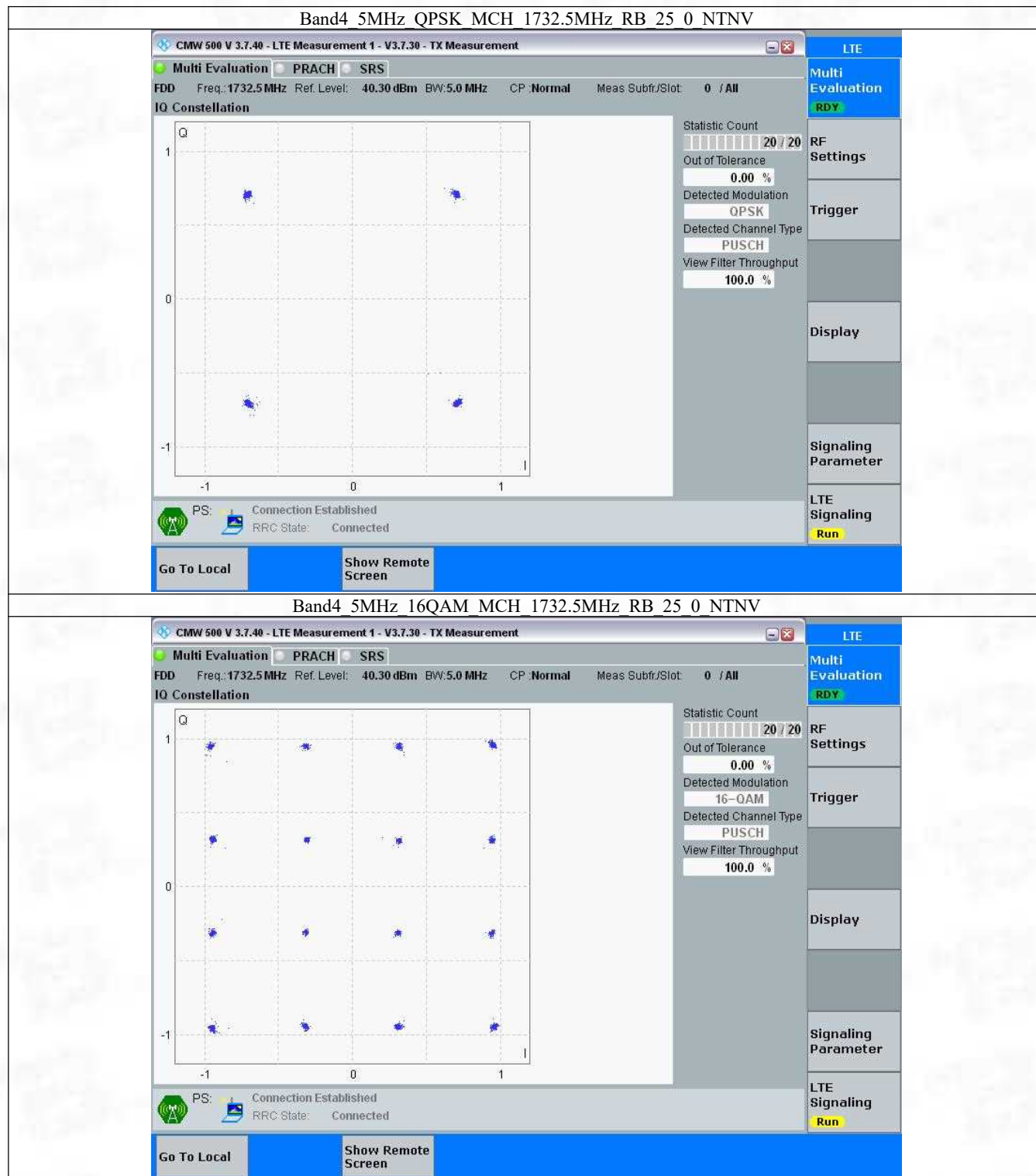
3.2.1 B4_1.4MHz



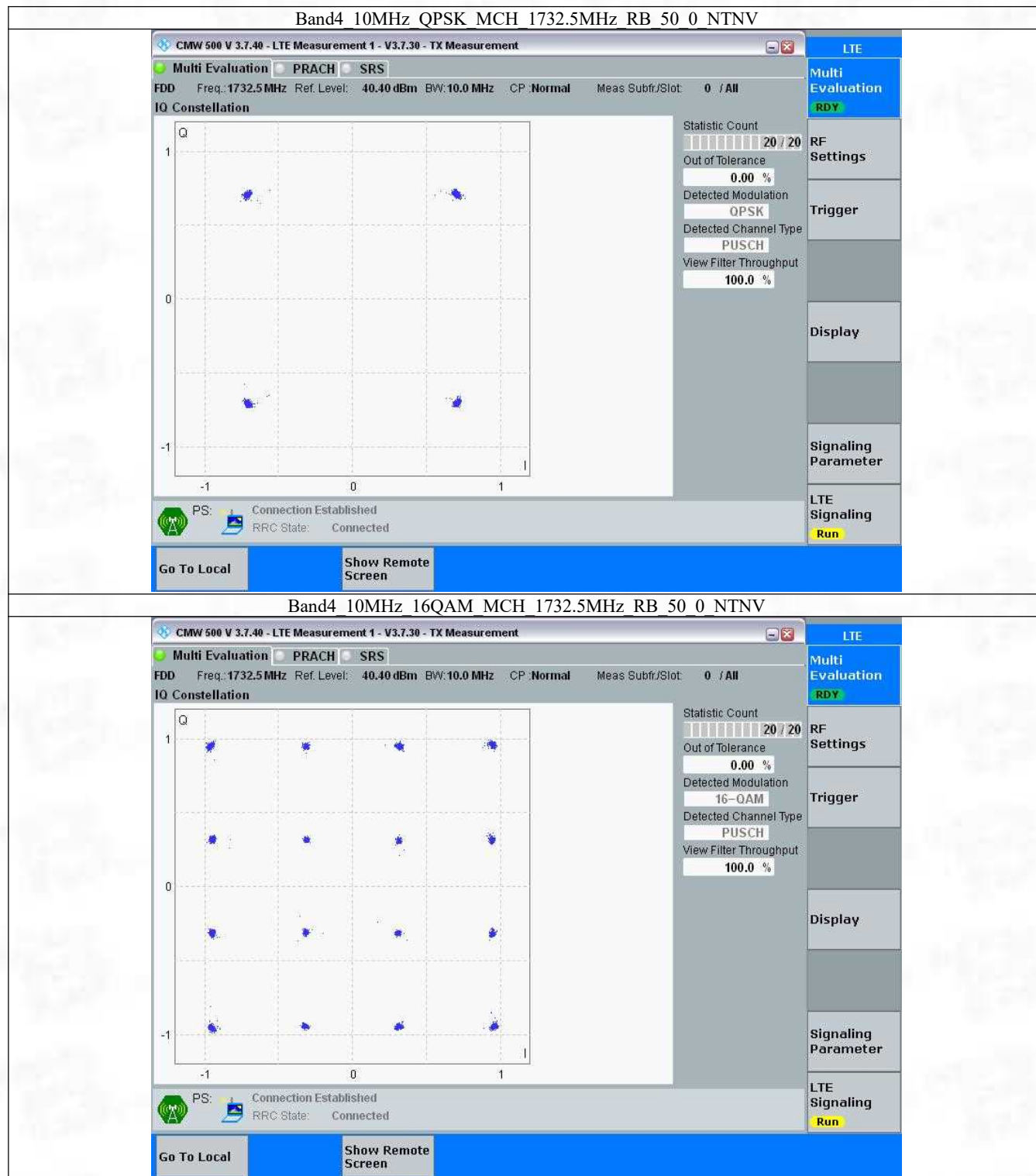
3.2.2 B4_3MHz



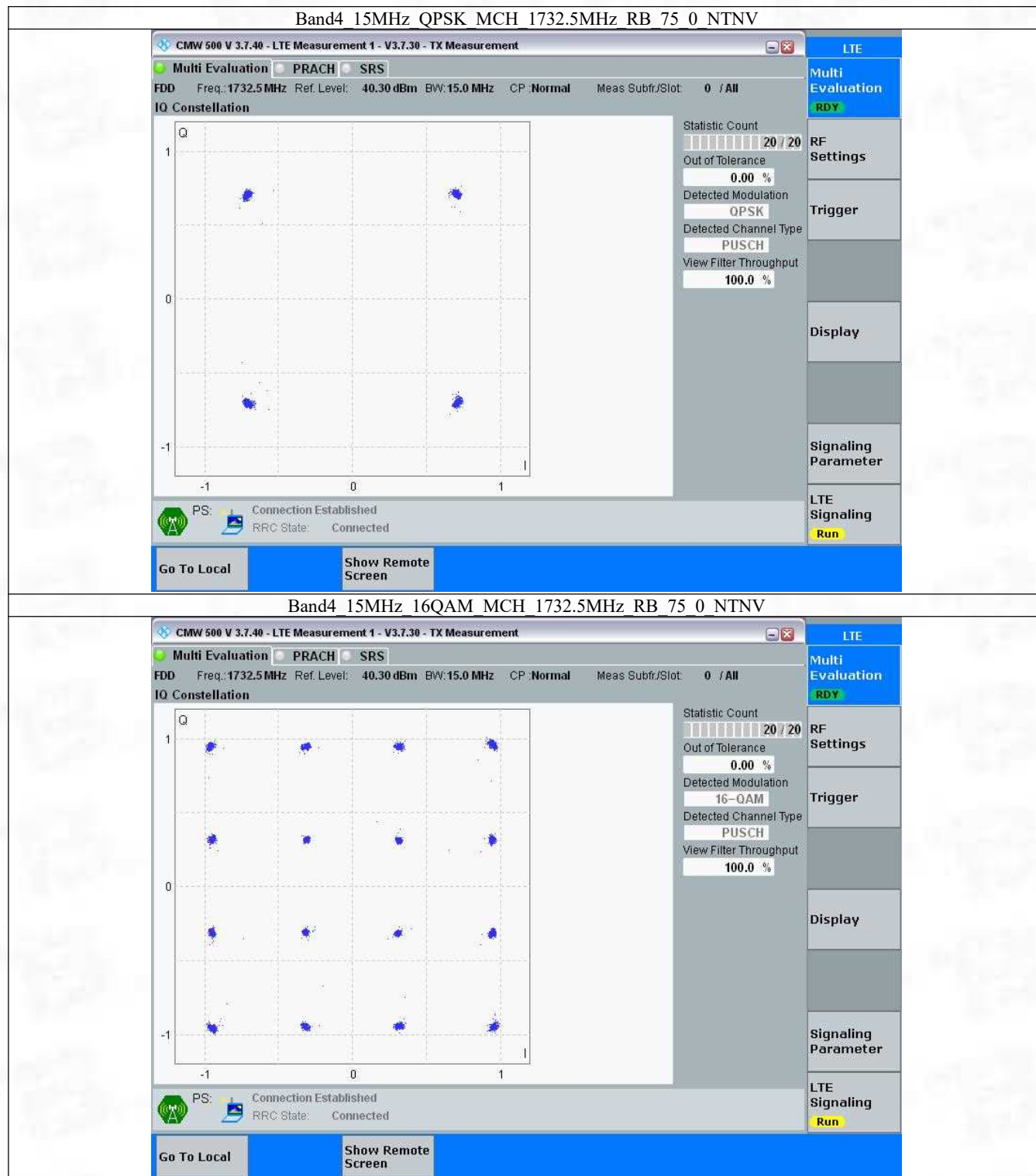
3.2.3 B4_5MHz



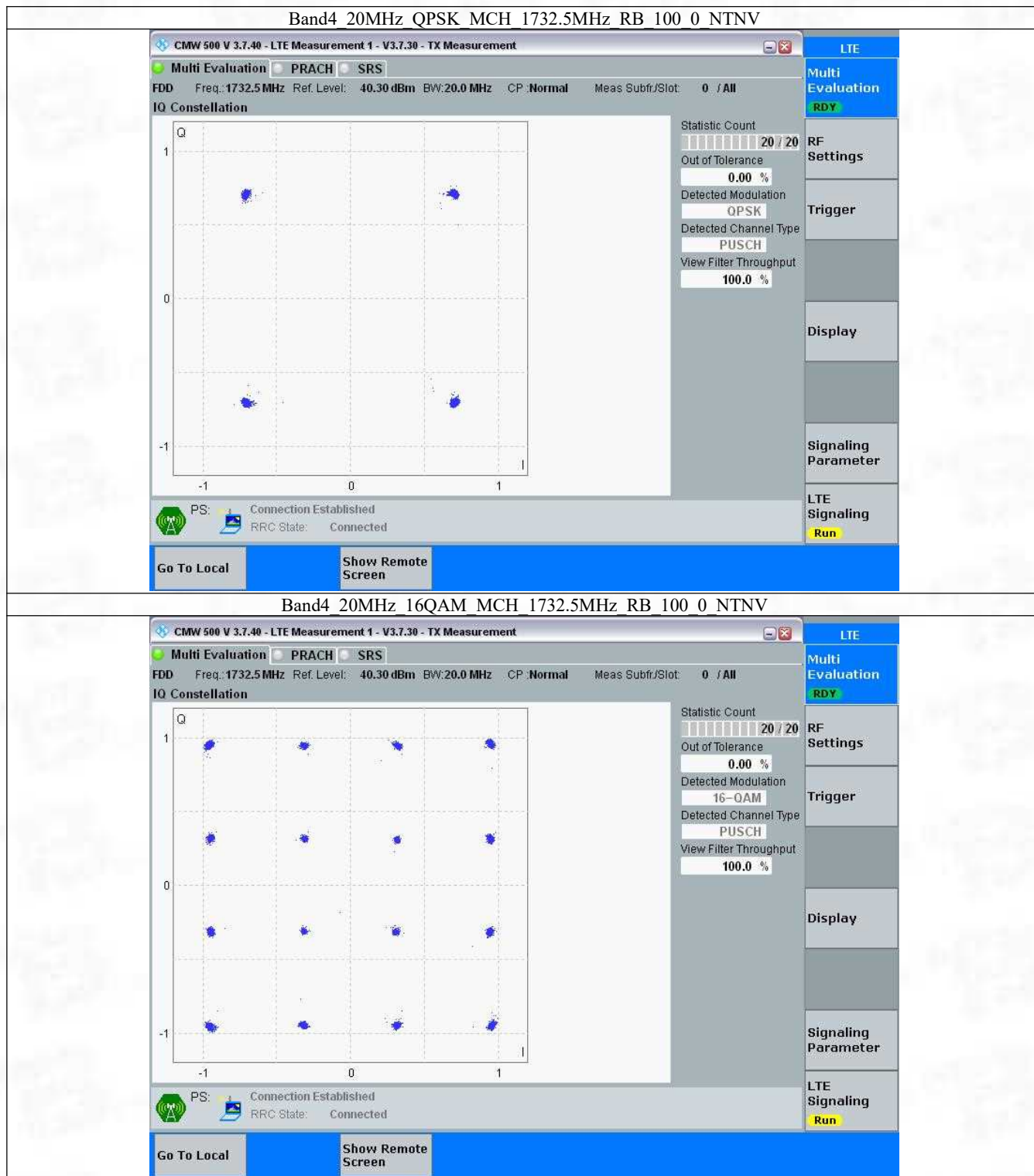
3.2.4 B4_10MHz



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	1.107	/	Pass
		1732.5	6	0	1.106	/	Pass
		1754.3	6	0	1.114	/	Pass
	16QAM	1710.7	6	0	1.108	/	Pass
		1732.5	6	0	1.117	/	Pass
		1754.3	6	0	1.111	/	Pass
3	QPSK	1711.5	15	0	2.725	/	Pass
		1732.5	15	0	2.728	/	Pass
		1753.5	15	0	2.716	/	Pass
	16QAM	1711.5	15	0	2.717	/	Pass
		1732.5	15	0	2.729	/	Pass
		1753.5	15	0	2.721	/	Pass
5	QPSK	1712.5	25	0	4.530	/	Pass
		1732.5	25	0	4.548	/	Pass
		1752.5	25	0	4.553	/	Pass
	16QAM	1712.5	25	0	4.542	/	Pass
		1732.5	25	0	4.556	/	Pass
		1752.5	25	0	4.528	/	Pass
10	QPSK	1715	50	0	9.077	/	Pass
		1732.5	50	0	9.064	/	Pass
		1750	50	0	9.054	/	Pass
	16QAM	1715	50	0	9.038	/	Pass
		1732.5	50	0	9.058	/	Pass
		1750	50	0	9.041	/	Pass
15	QPSK	1717.5	75	0	13.577	/	Pass
		1732.5	75	0	13.588	/	Pass
		1747.5	75	0	13.579	/	Pass
	16QAM	1717.5	75	0	13.565	/	Pass
		1732.5	75	0	13.616	/	Pass
		1747.5	75	0	13.570	/	Pass
20	QPSK	1720	100	0	18.053	/	Pass
		1732.5	100	0	18.152	/	Pass
		1745	100	0	18.133	/	Pass
	16QAM	1720	100	0	18.042	/	Pass
		1732.5	100	0	18.101	/	Pass
		1745	100	0	18.122	/	Pass

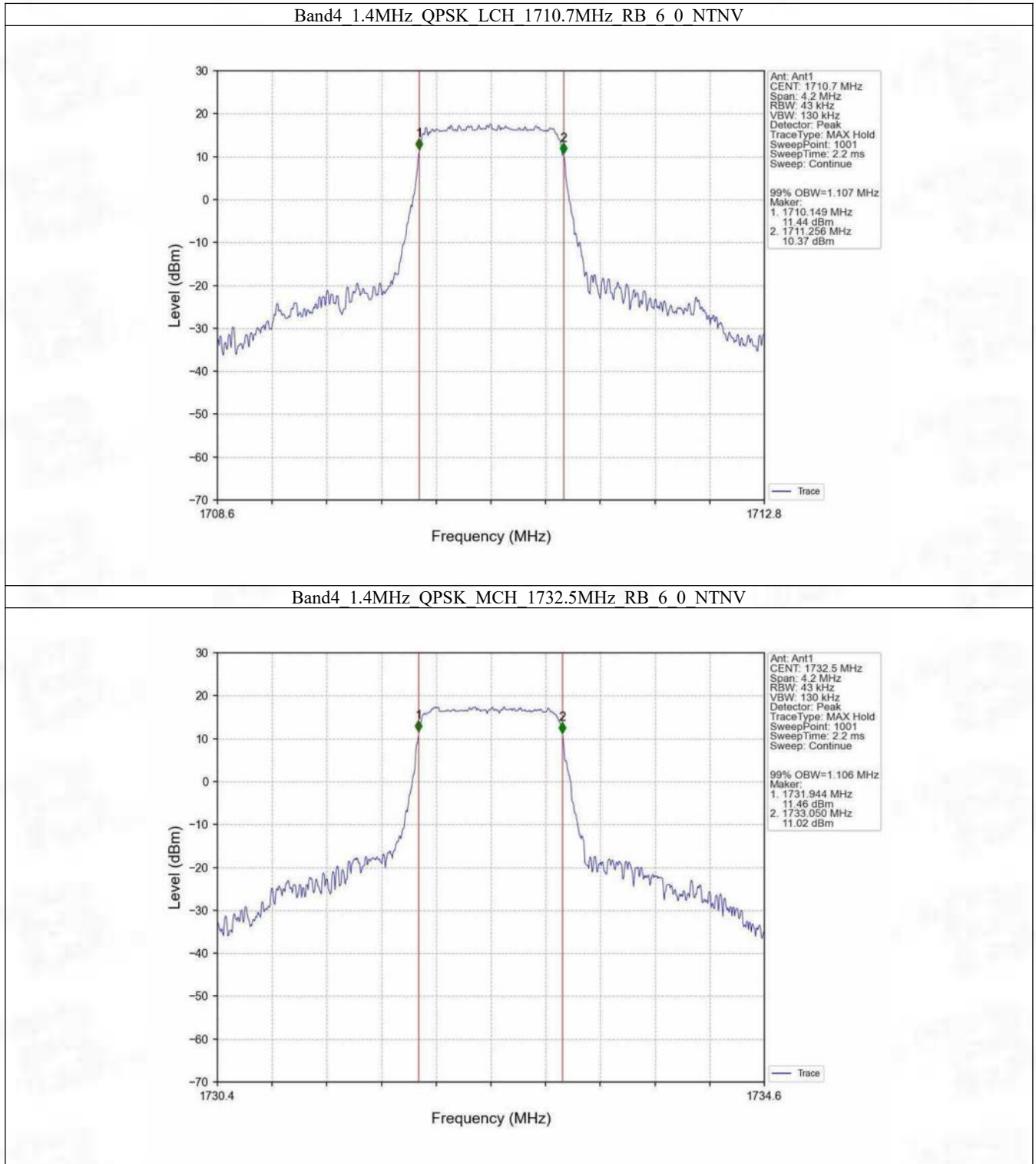
4.1.2 Band4_XDB

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	1.310	/	Pass
		1732.5	6	0	1.317	/	Pass
		1754.3	6	0	1.298	/	Pass
	16QAM	1710.7	6	0	1.308	/	Pass
		1732.5	6	0	1.326	/	Pass

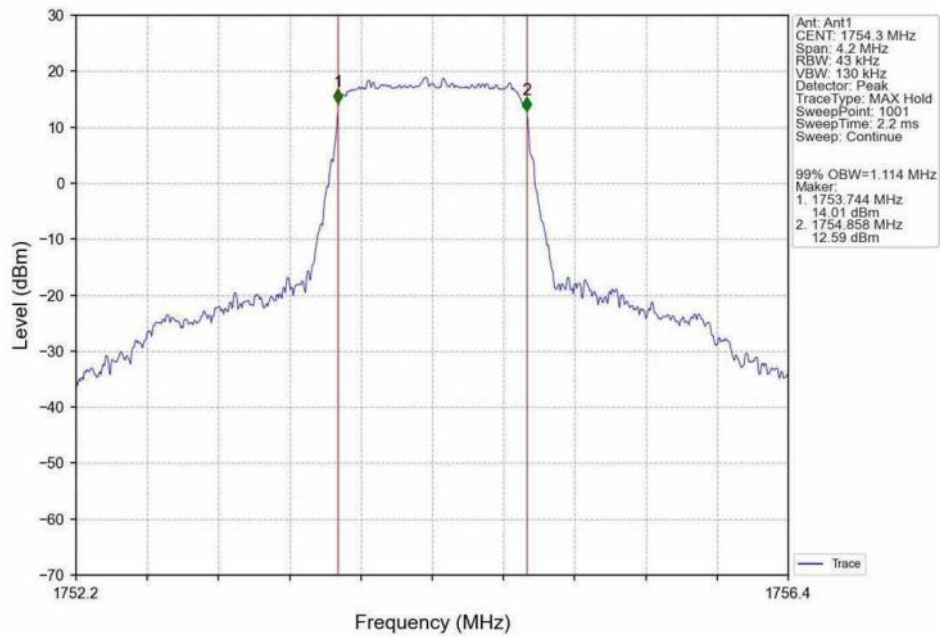
3	QPSK	1754.3	6	0	1.314	/	Pass
		1711.5	15	0	3.013	/	Pass
		1732.5	15	0	3.010	/	Pass
		1753.5	15	0	2.997	/	Pass
	16QAM	1711.5	15	0	3.009	/	Pass
		1732.5	15	0	3.001	/	Pass
		1753.5	15	0	2.999	/	Pass
5	QPSK	1712.5	25	0	5.004	/	Pass
		1732.5	25	0	4.974	/	Pass
		1752.5	25	0	5.020	/	Pass
	16QAM	1712.5	25	0	5.018	/	Pass
		1732.5	25	0	5.013	/	Pass
		1752.5	25	0	4.979	/	Pass
10	QPSK	1715	50	0	9.908	/	Pass
		1732.5	50	0	9.939	/	Pass
		1750	50	0	9.991	/	Pass
	16QAM	1715	50	0	9.822	/	Pass
		1732.5	50	0	9.956	/	Pass
		1750	50	0	9.852	/	Pass
15	QPSK	1717.5	75	0	14.886	/	Pass
		1732.5	75	0	14.817	/	Pass
		1747.5	75	0	14.944	/	Pass
	16QAM	1717.5	75	0	14.914	/	Pass
		1732.5	75	0	14.803	/	Pass
		1747.5	75	0	14.864	/	Pass
20	QPSK	1720	100	0	19.742	/	Pass
		1732.5	100	0	19.785	/	Pass
		1745	100	0	19.630	/	Pass
	16QAM	1720	100	0	19.425	/	Pass
		1732.5	100	0	19.744	/	Pass
		1745	100	0	19.727	/	Pass

4.2 Test Graph

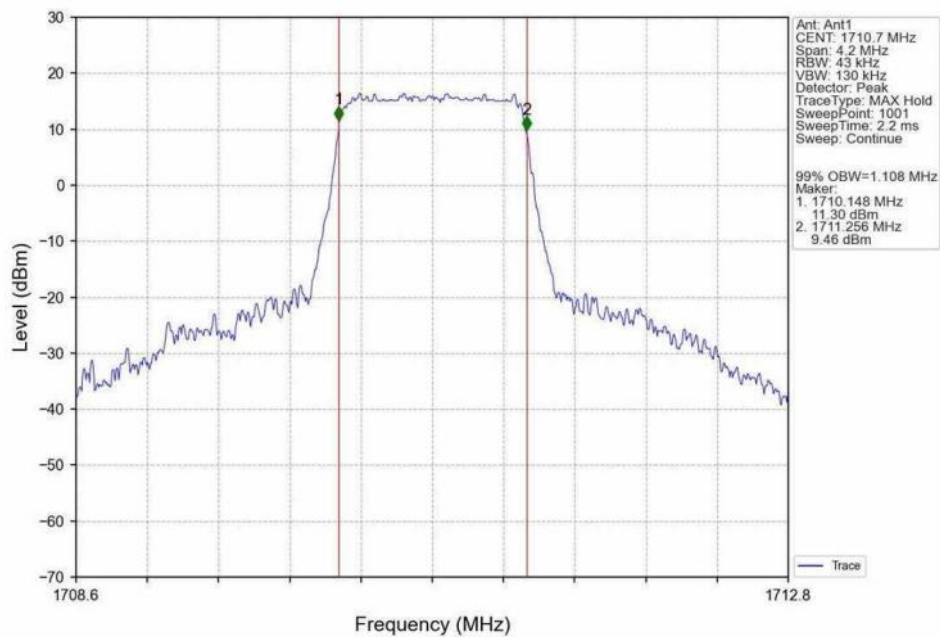
4.2.1 Band4_OBW



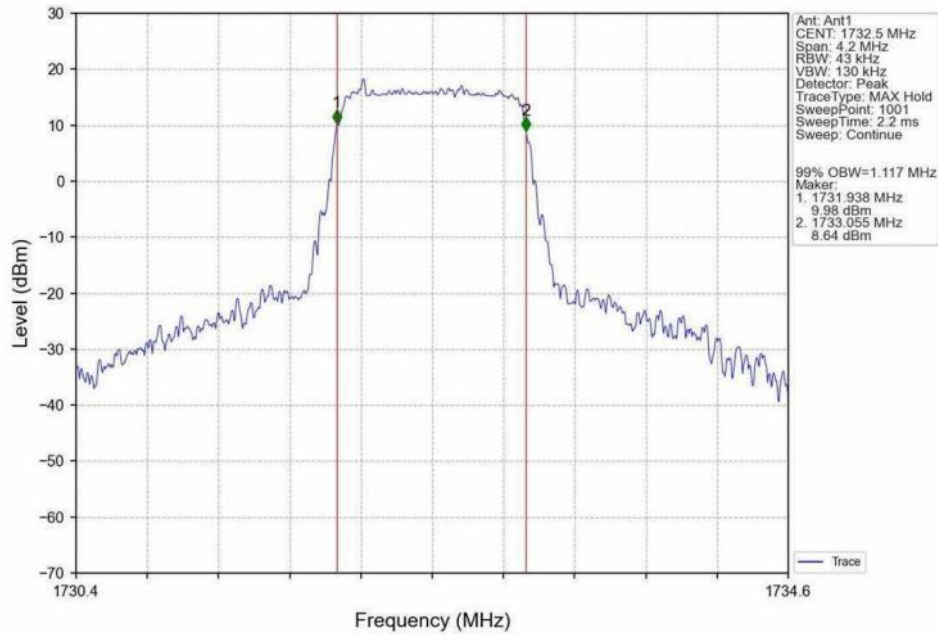
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



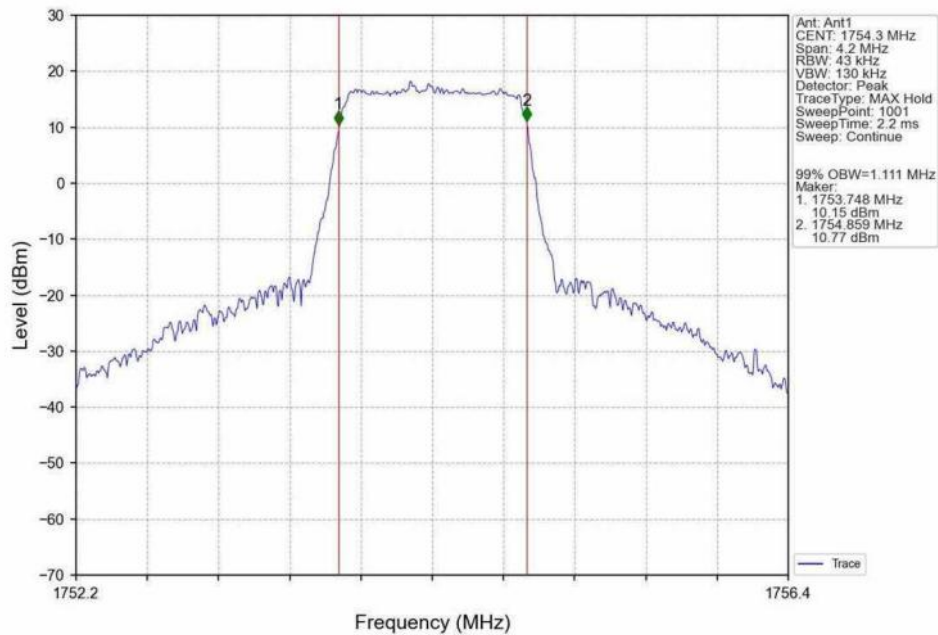
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



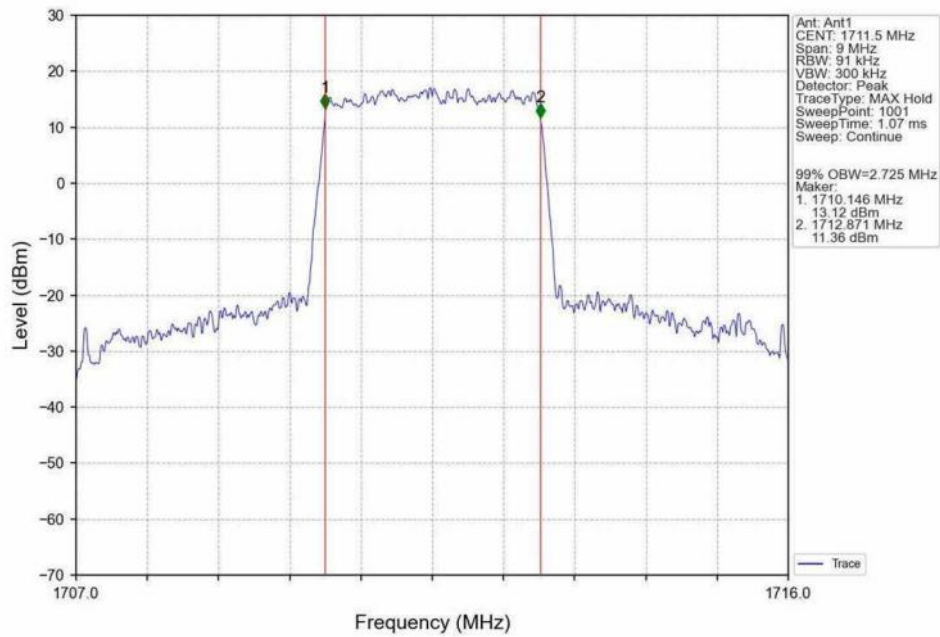
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



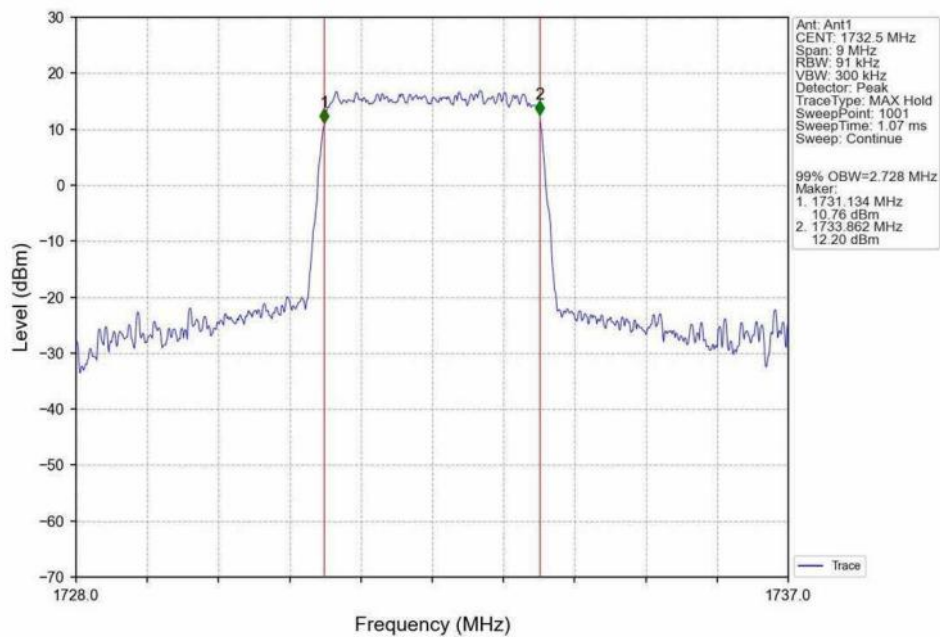
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



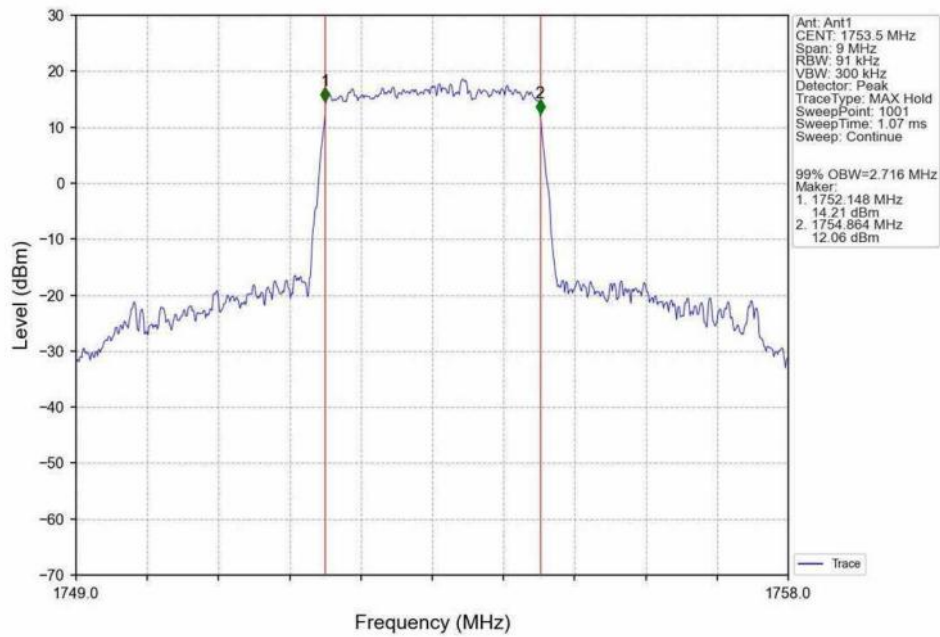
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



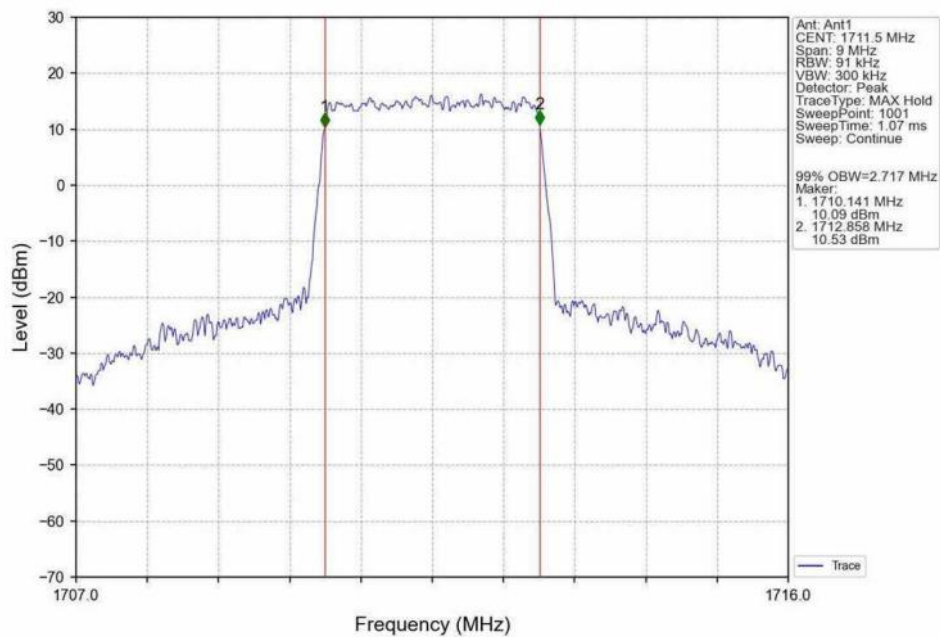
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



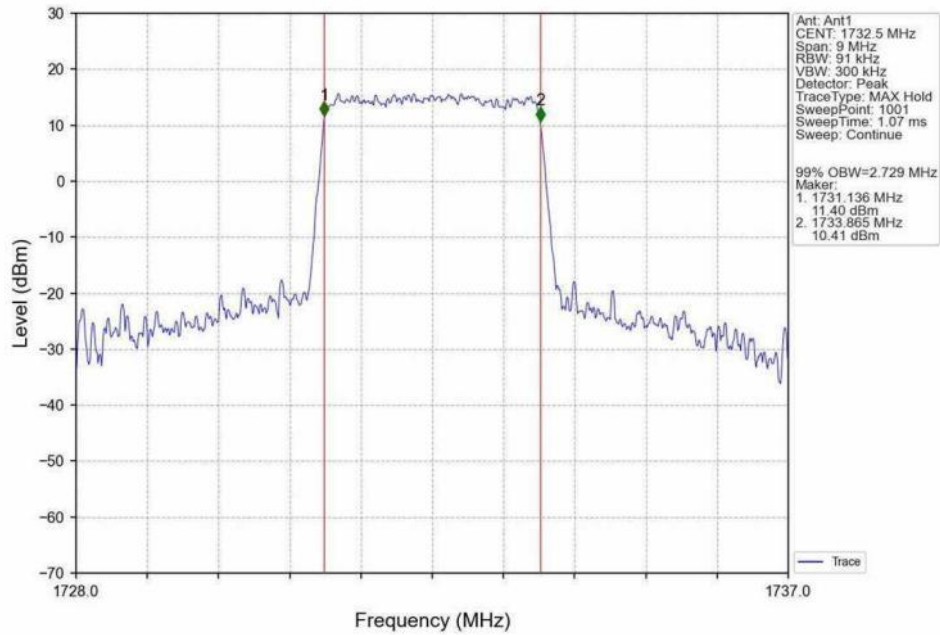
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



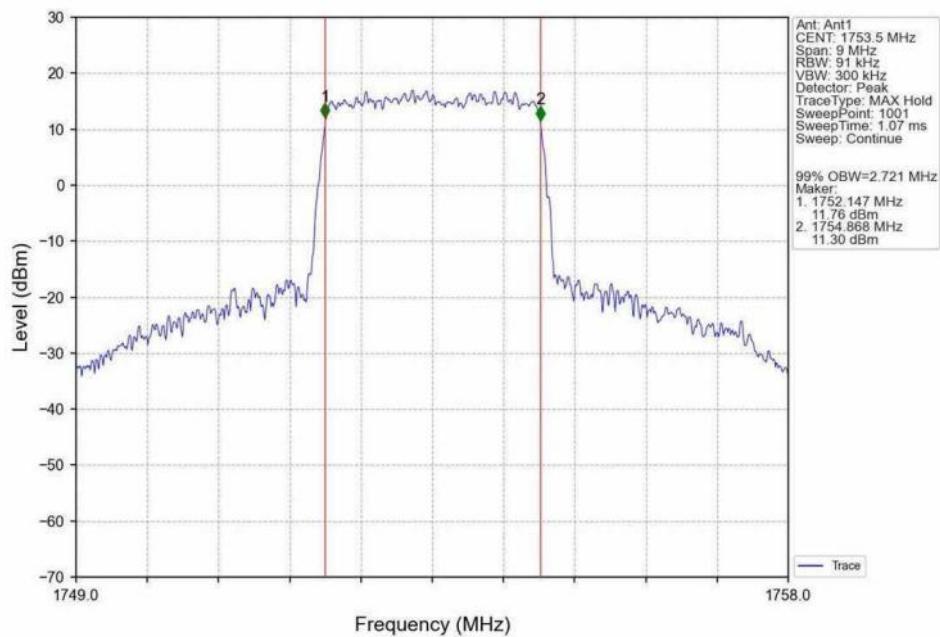
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



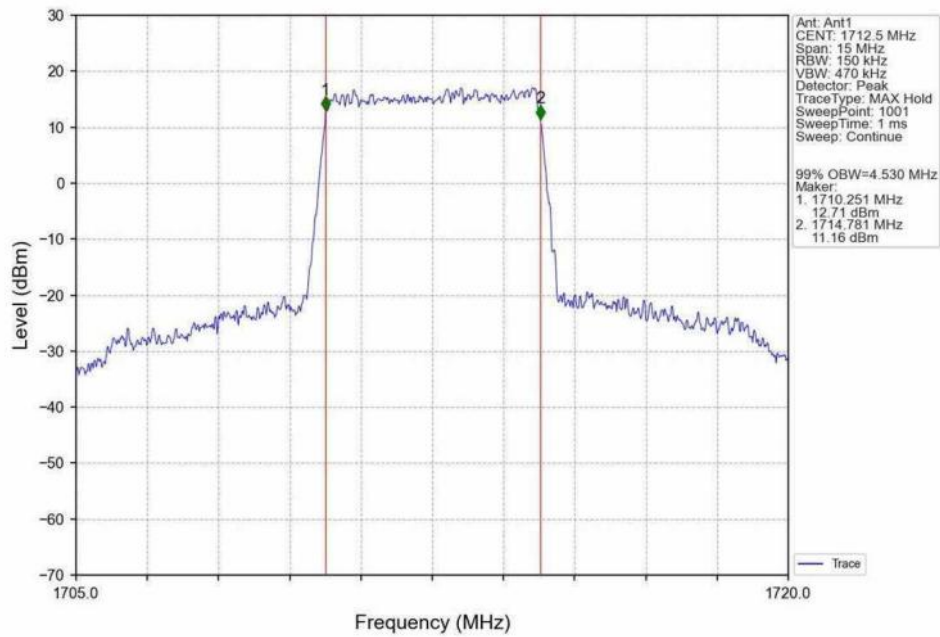
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



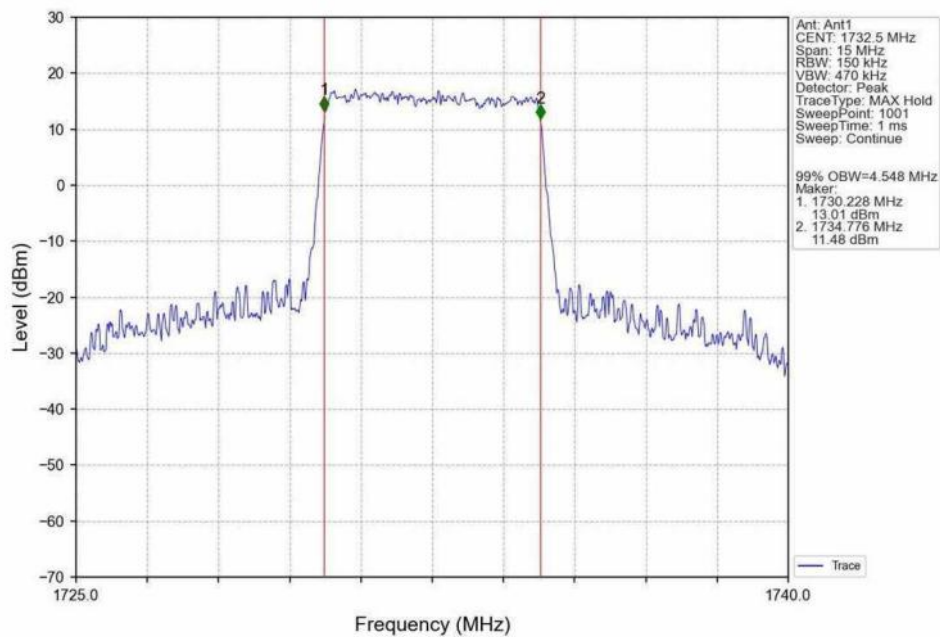
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



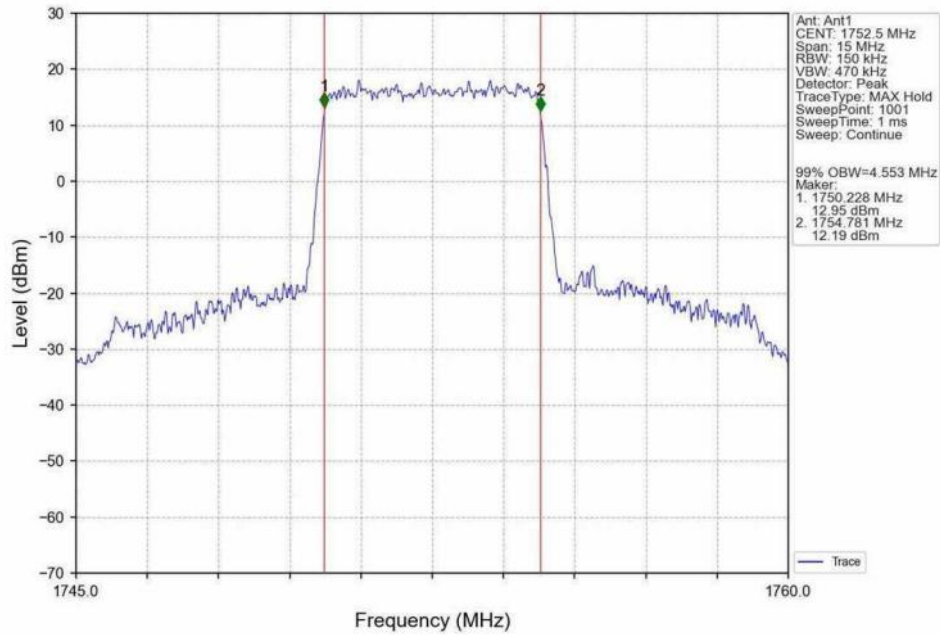
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



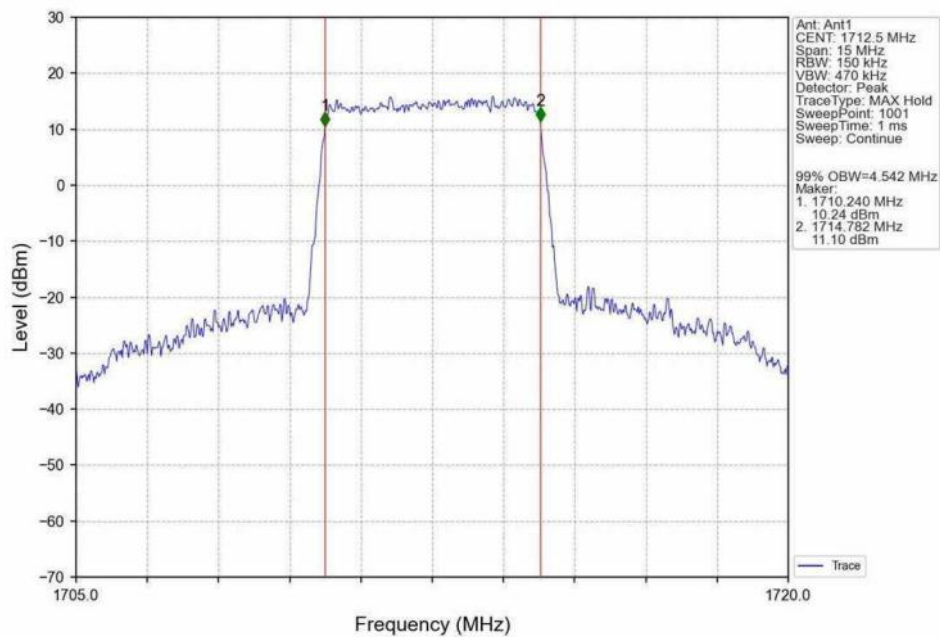
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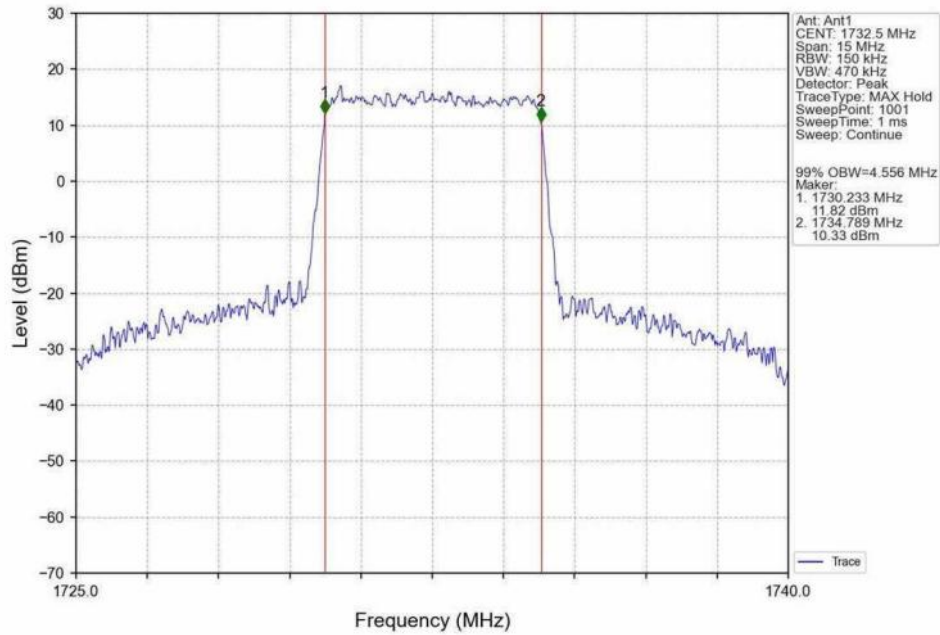
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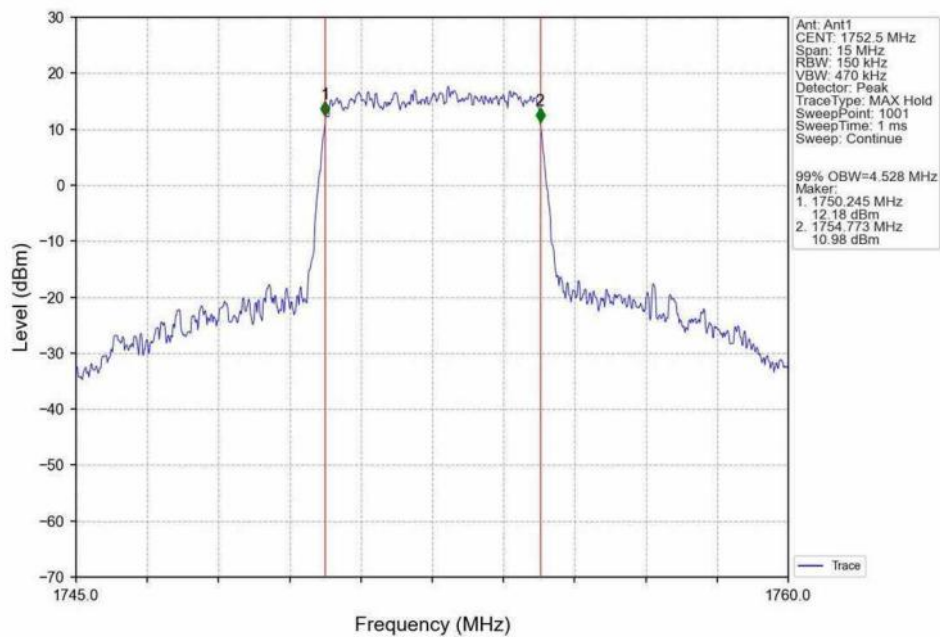
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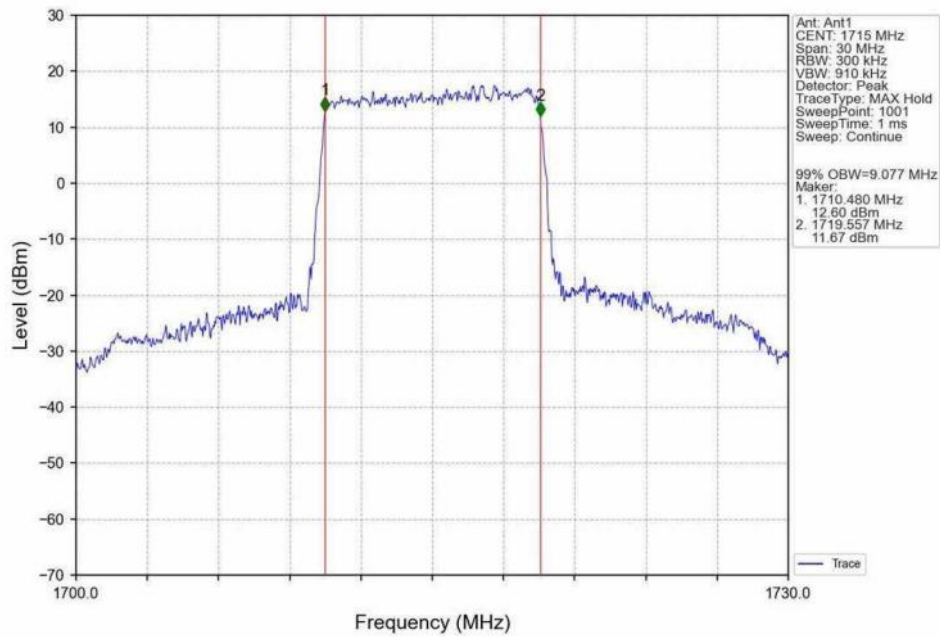
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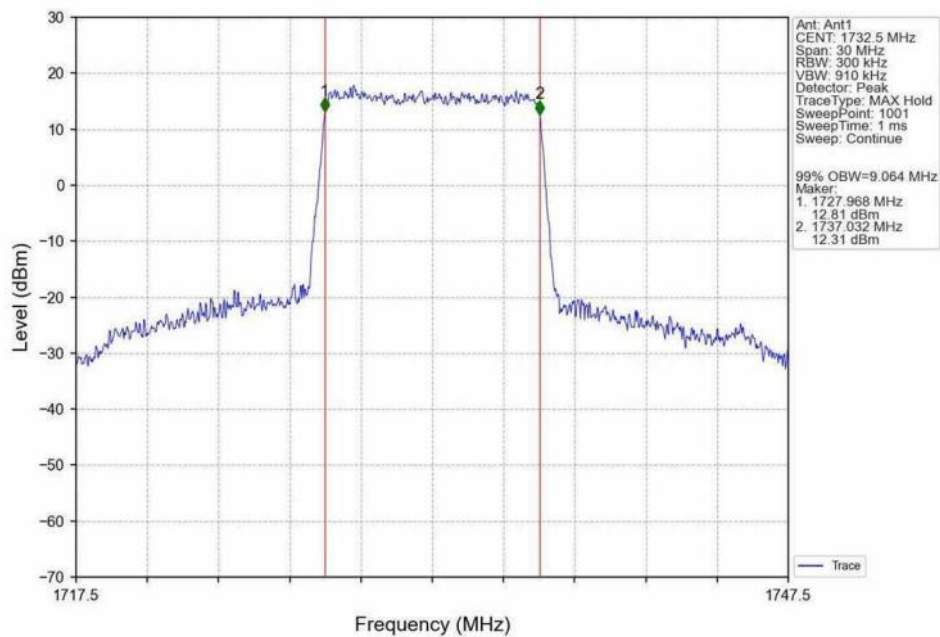
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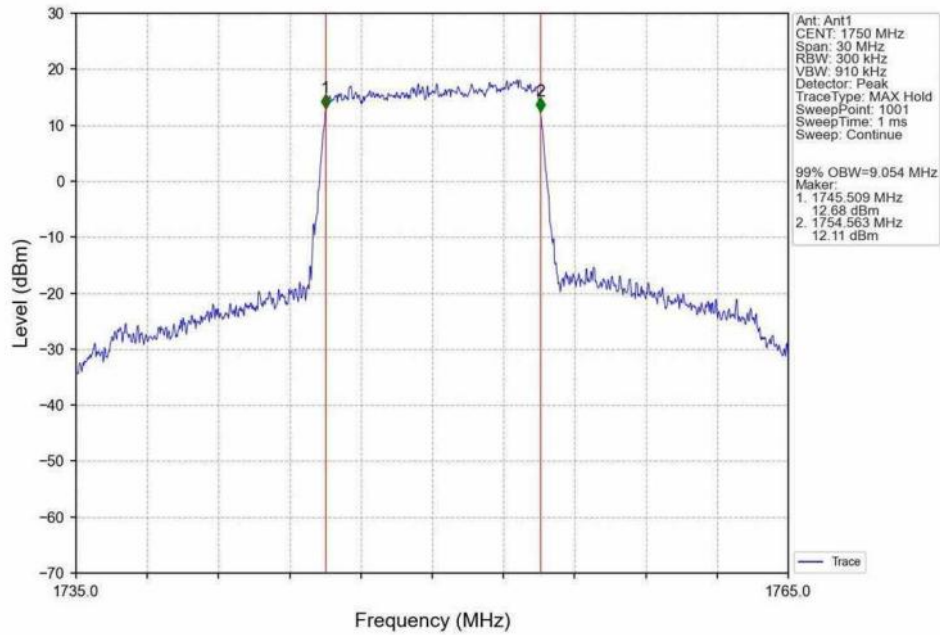
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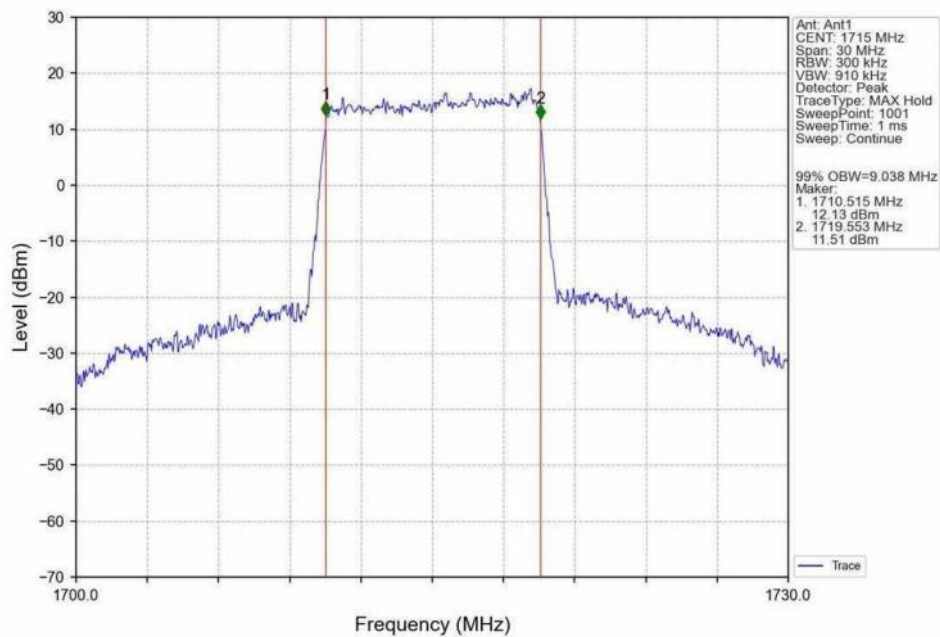
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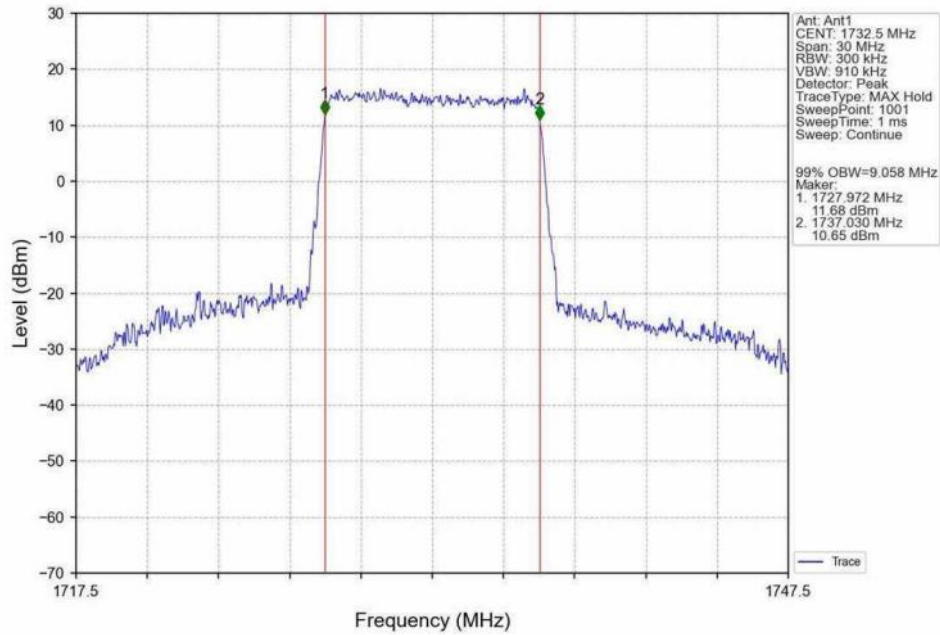
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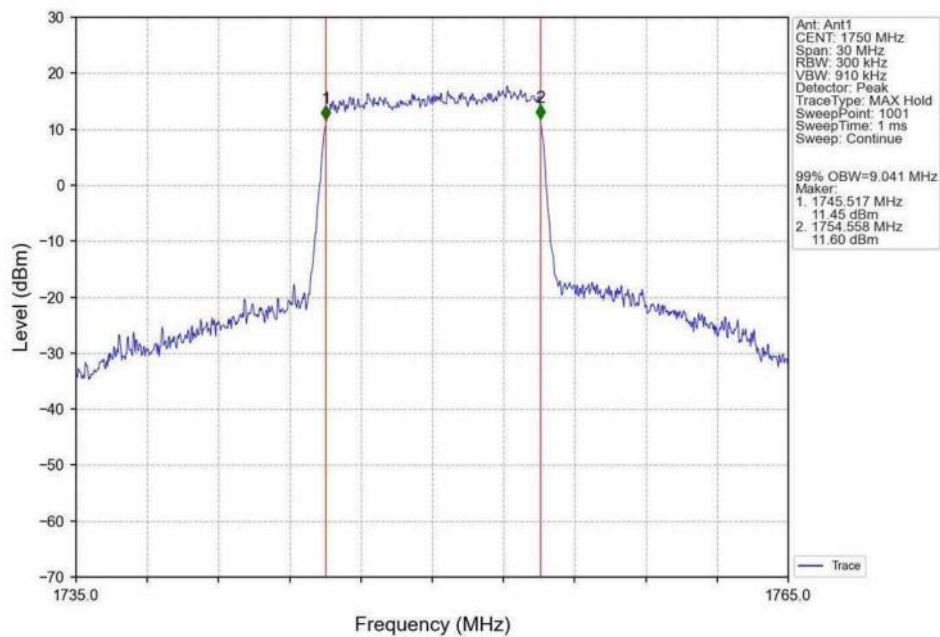
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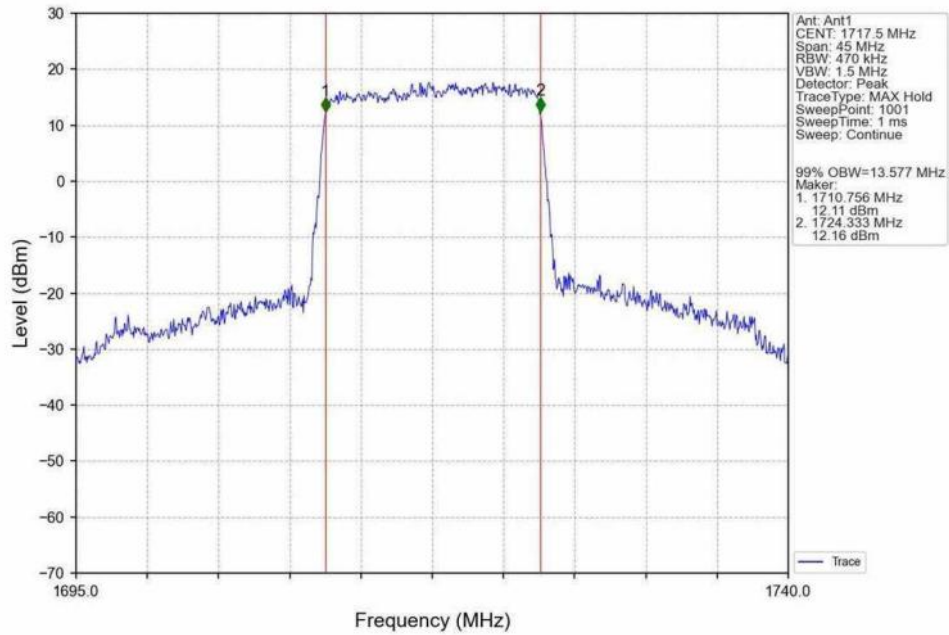
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTN



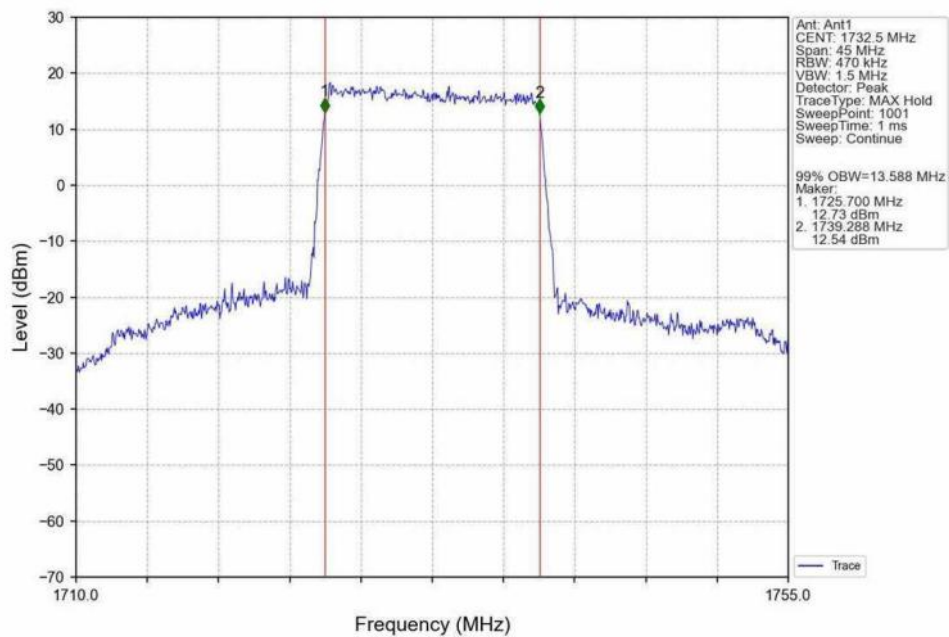
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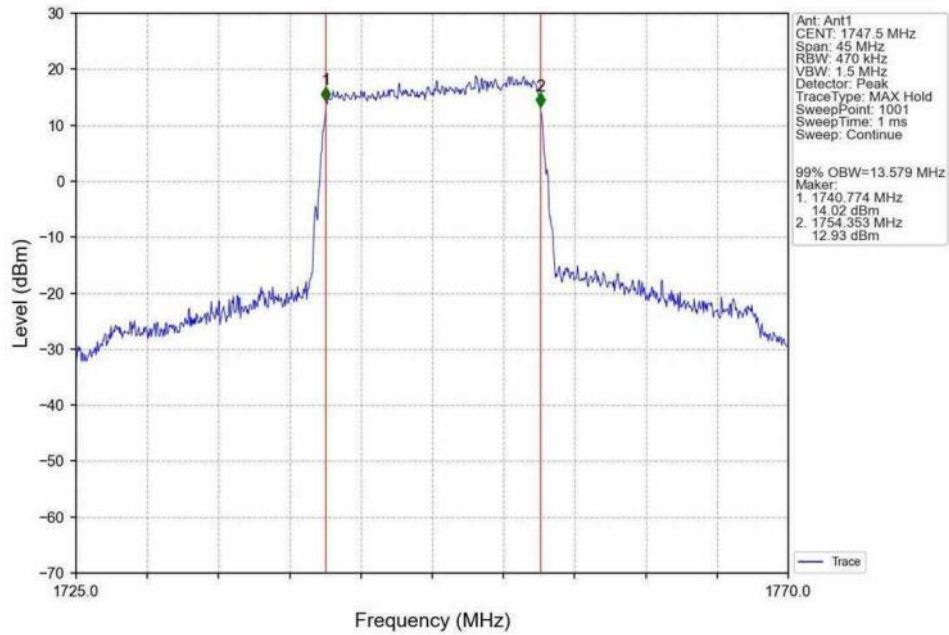
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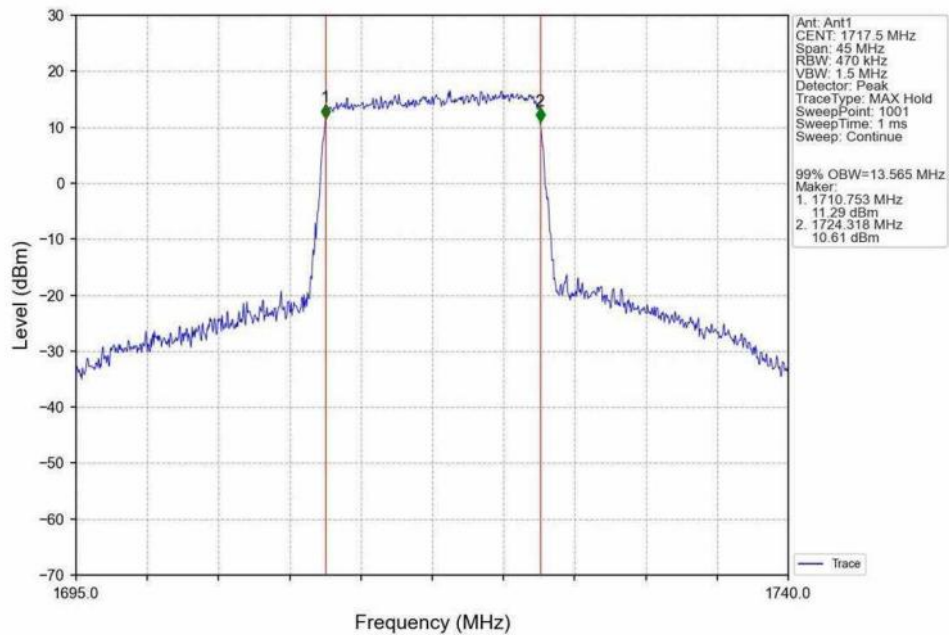
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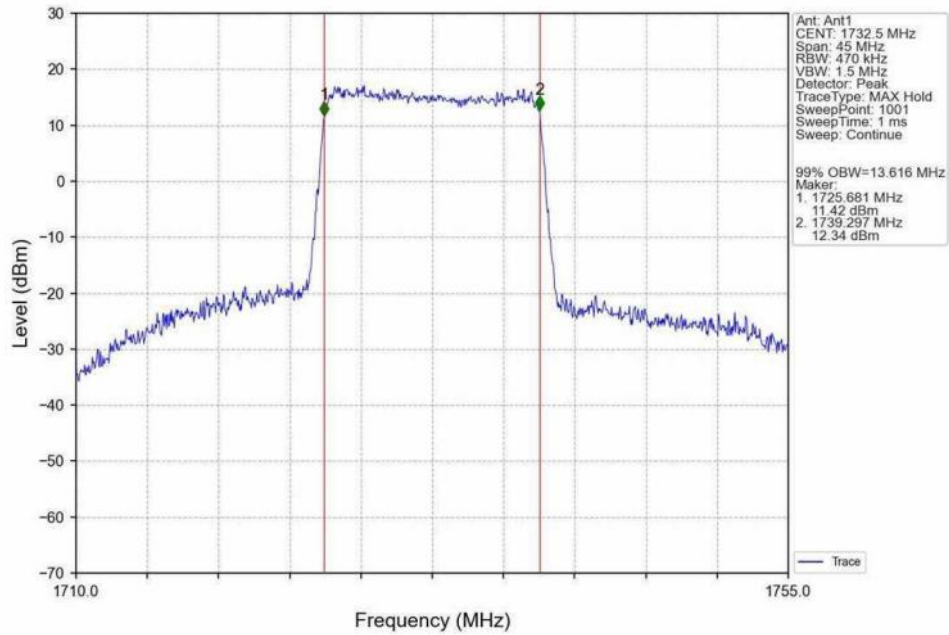
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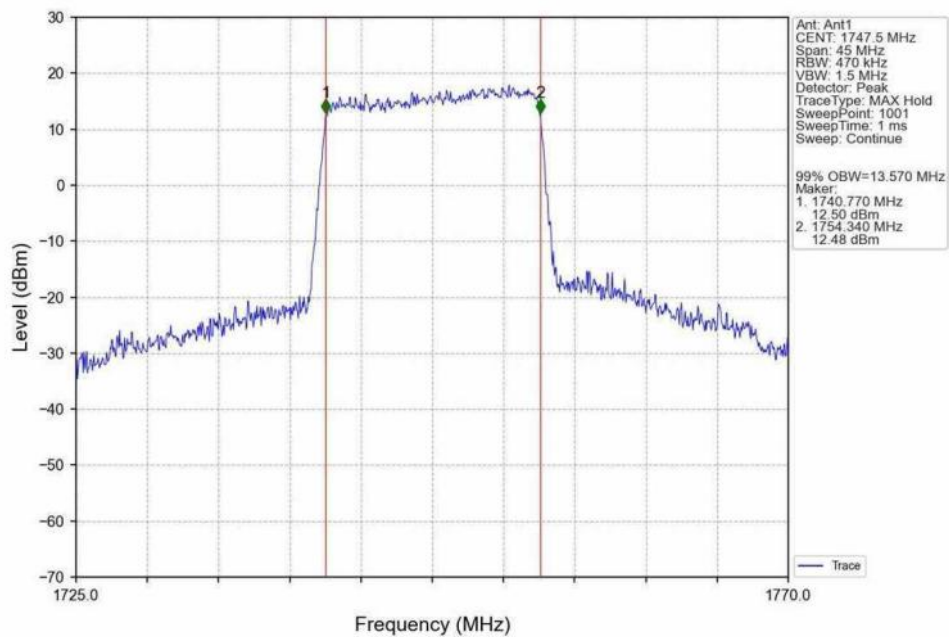
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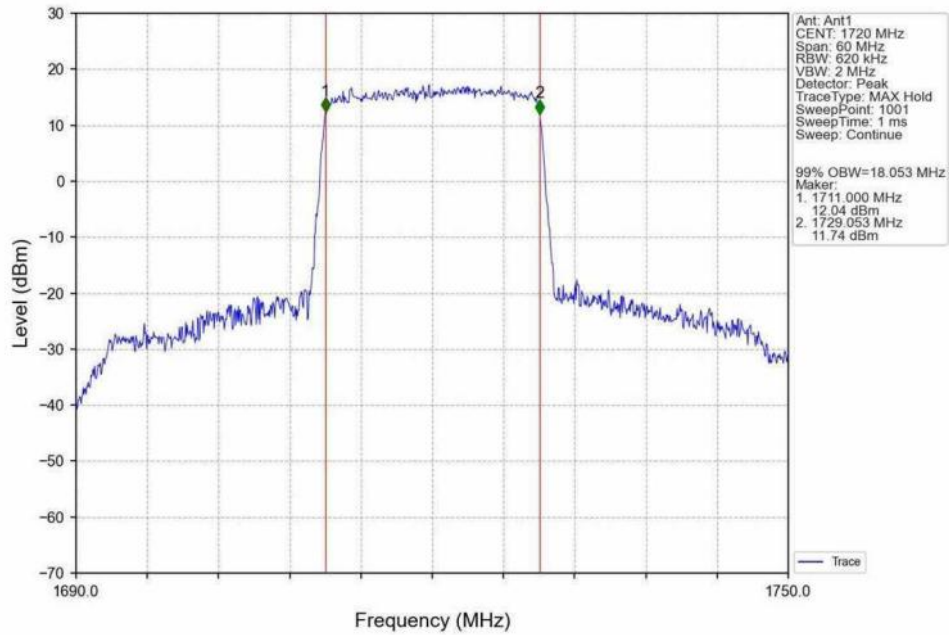
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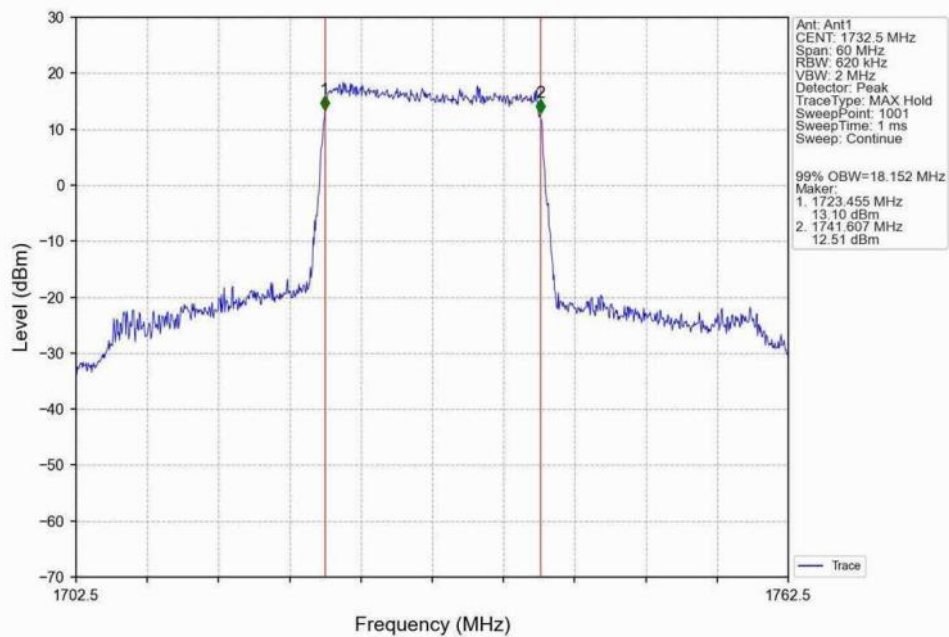
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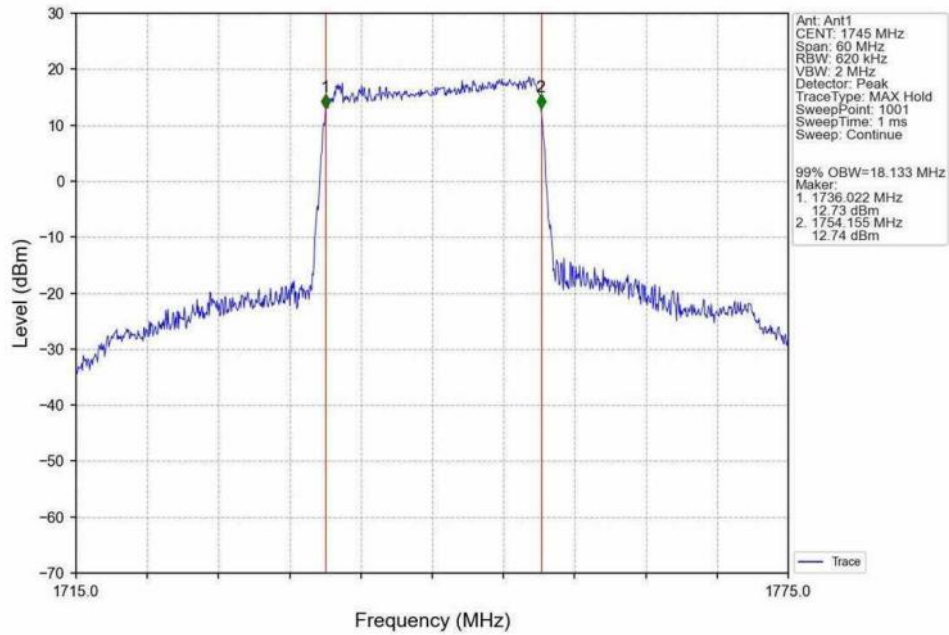
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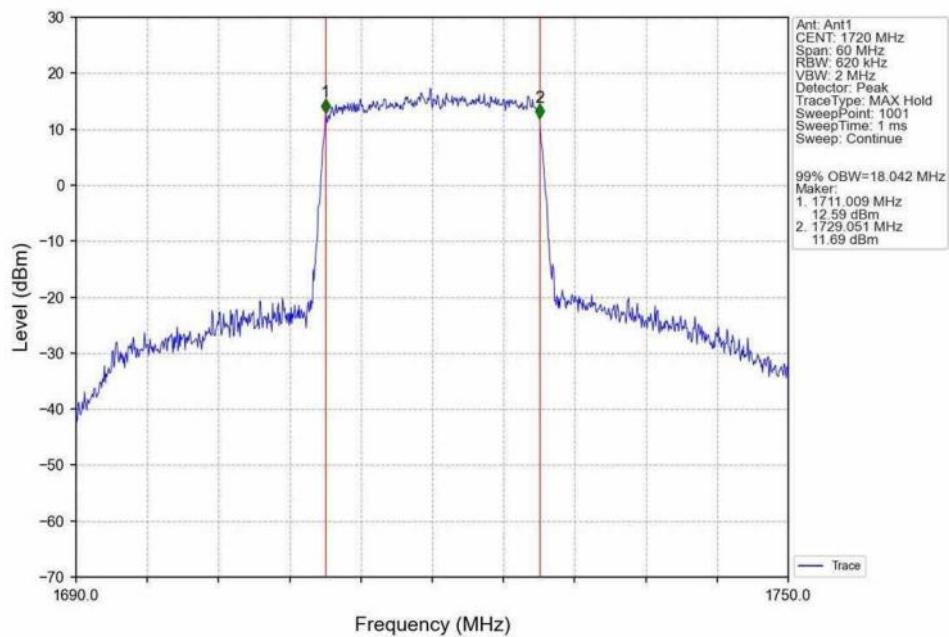
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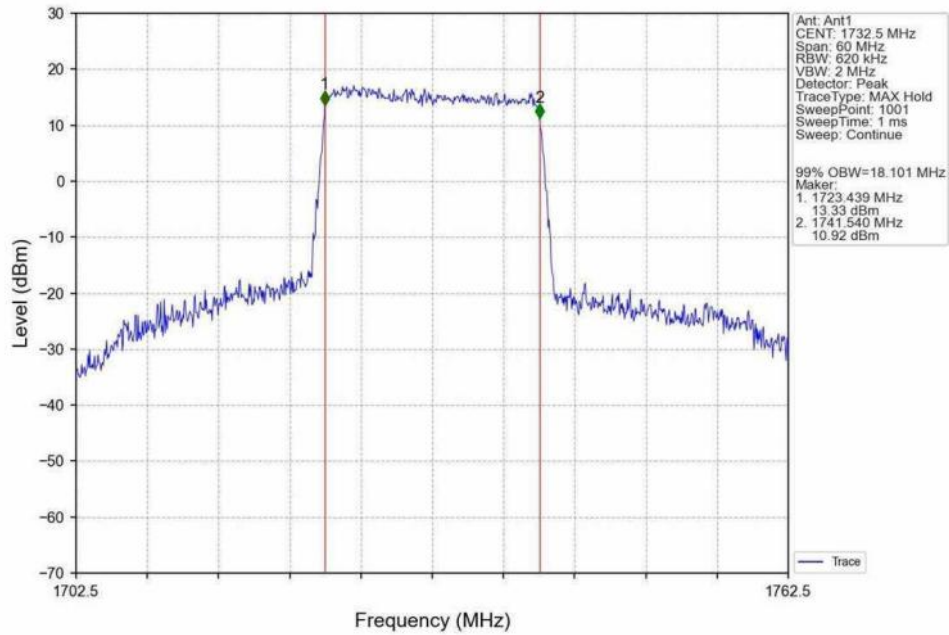
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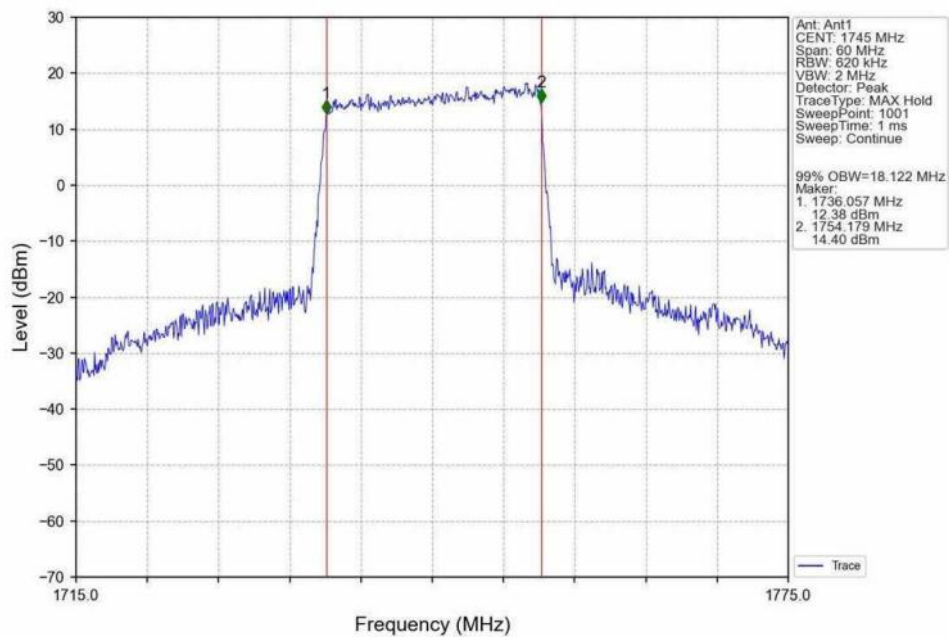
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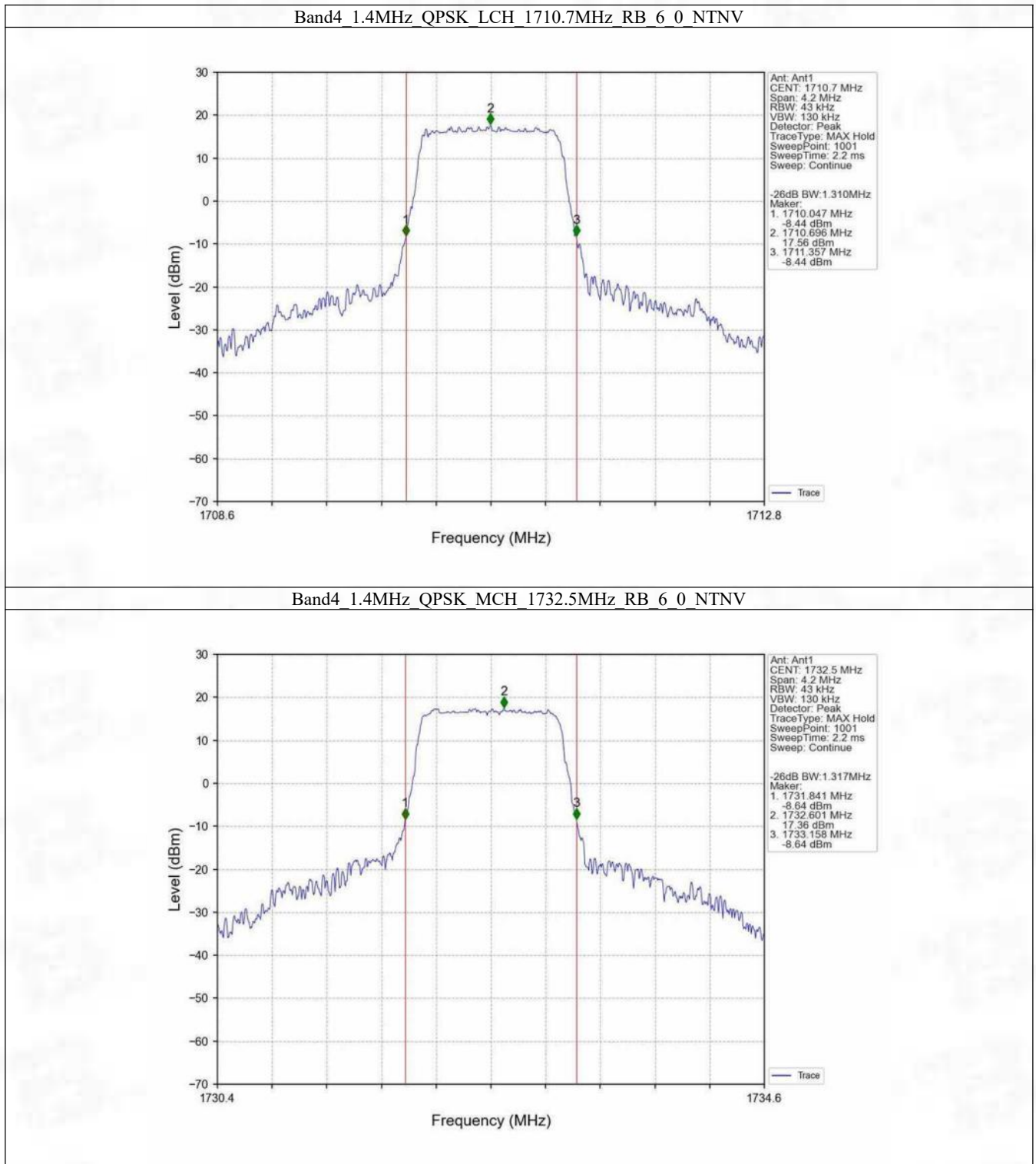
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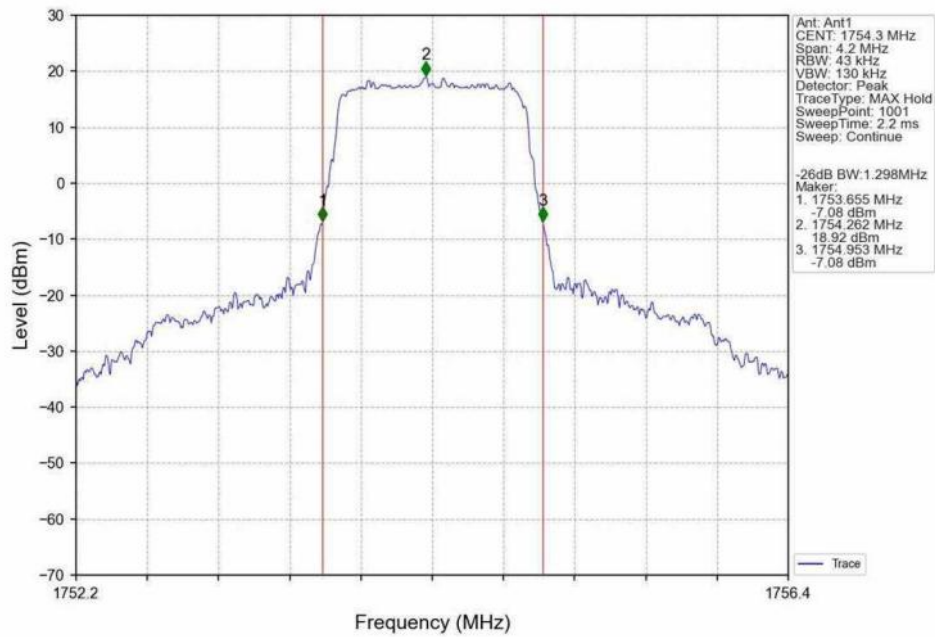
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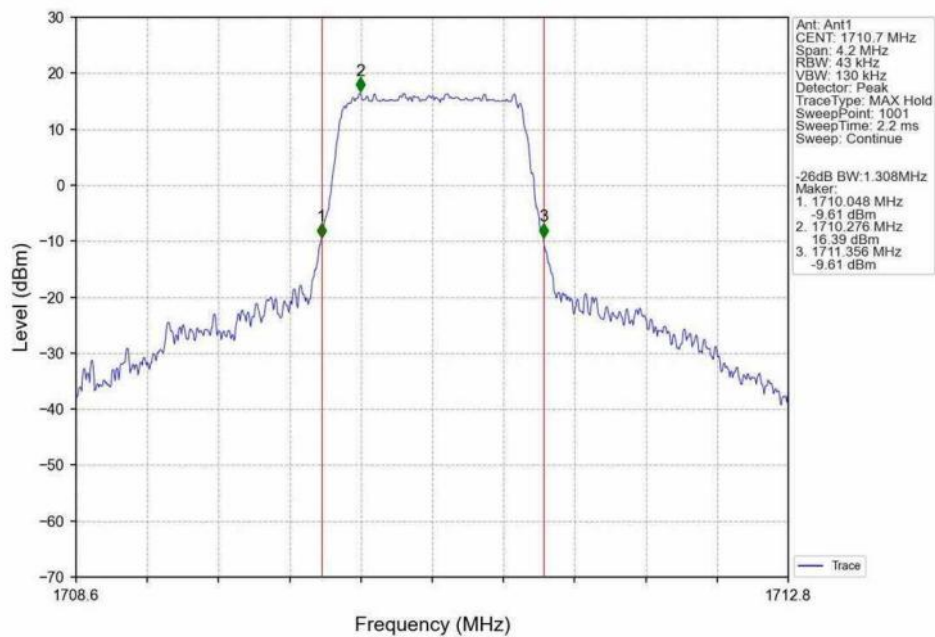
4.2.2 Band4_XDB



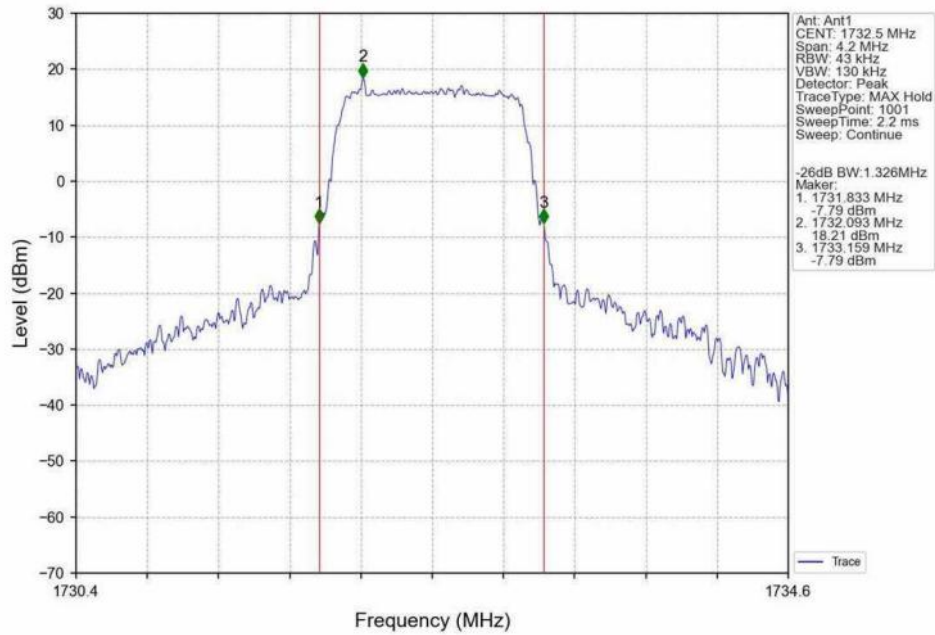
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



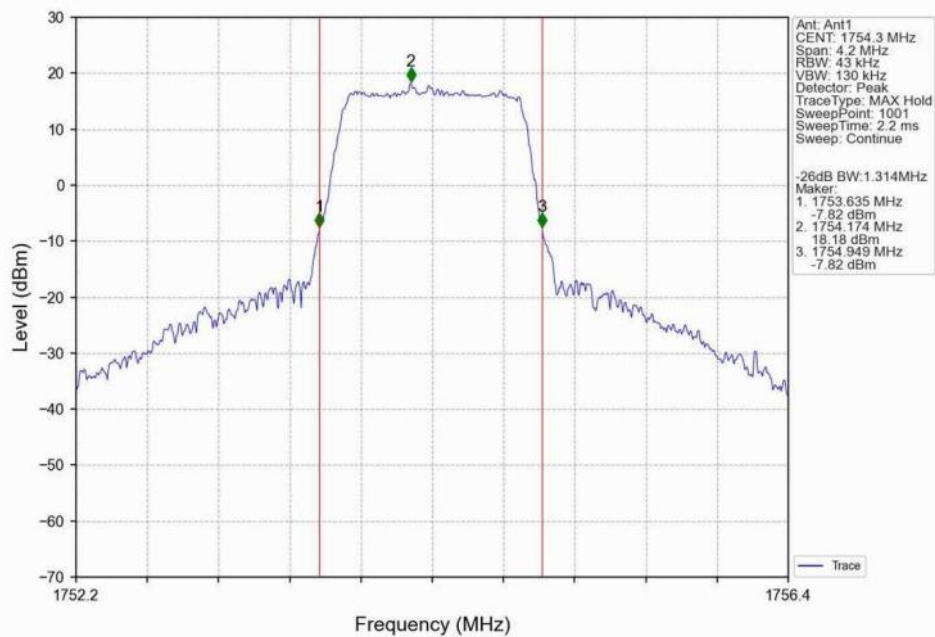
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



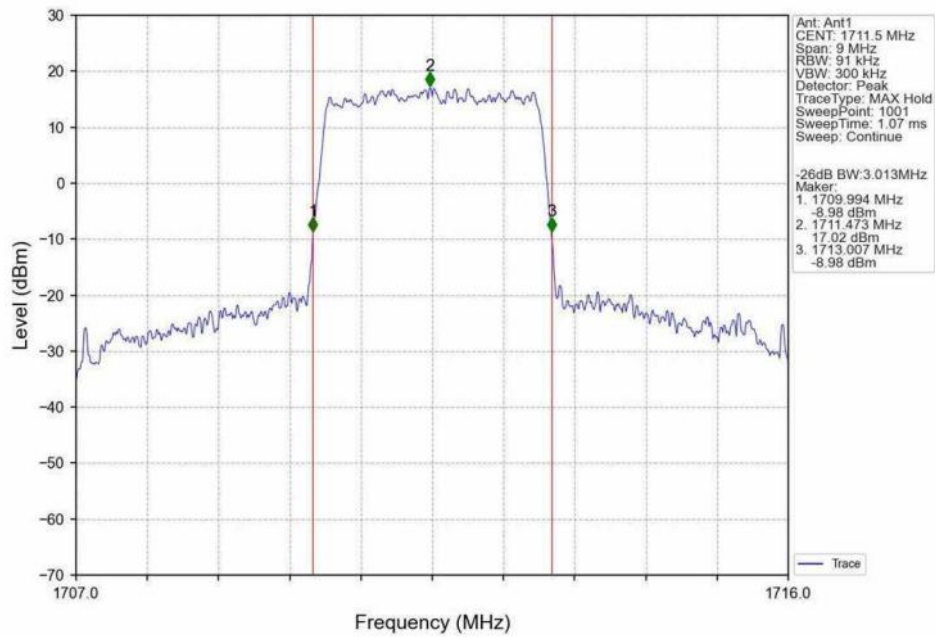
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



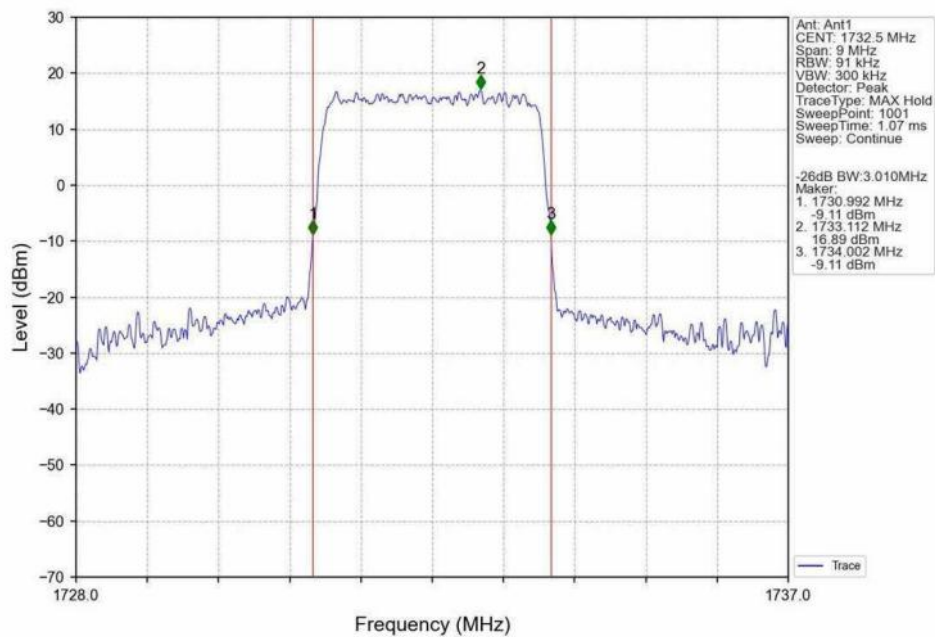
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



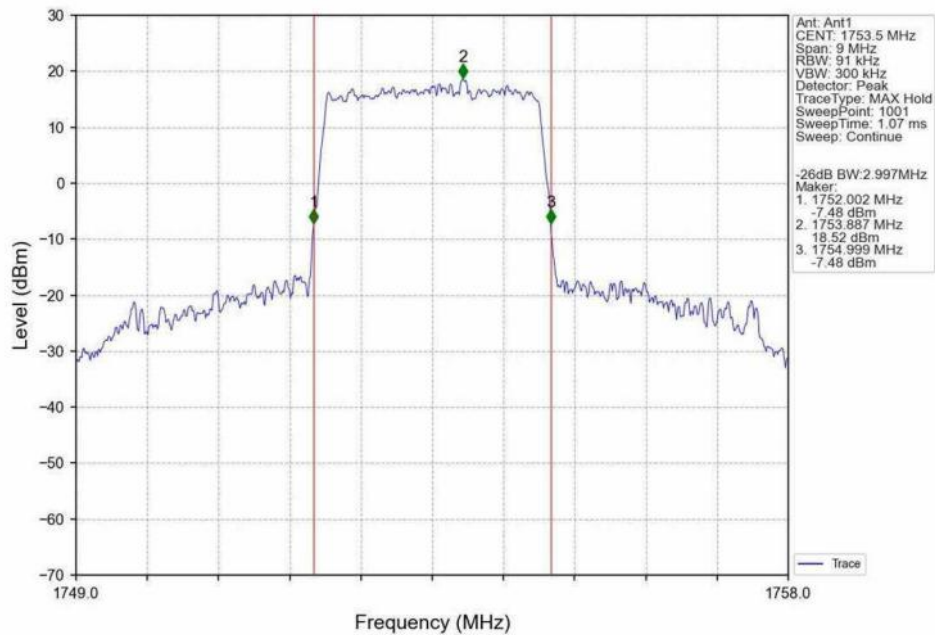
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



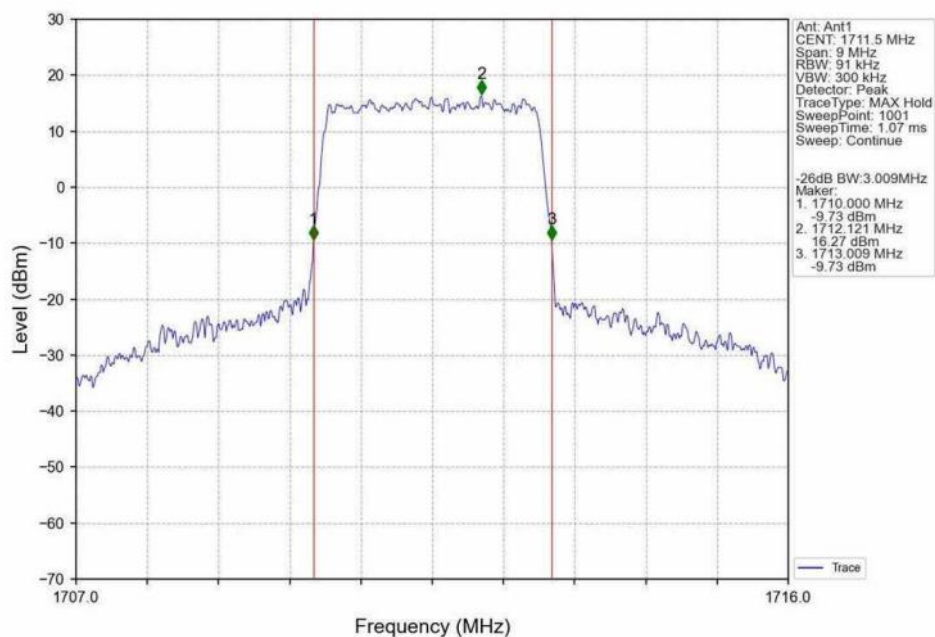
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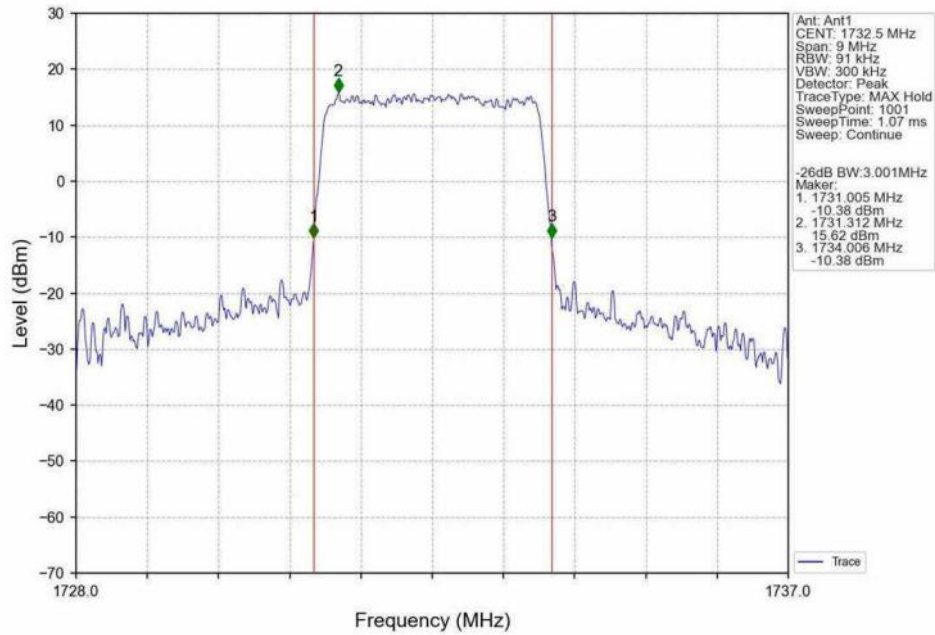
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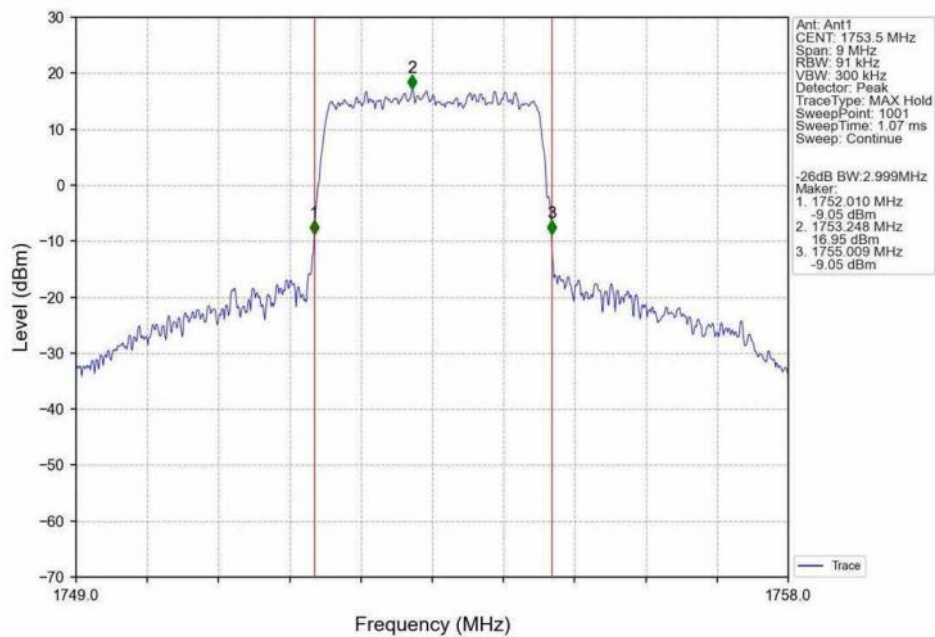
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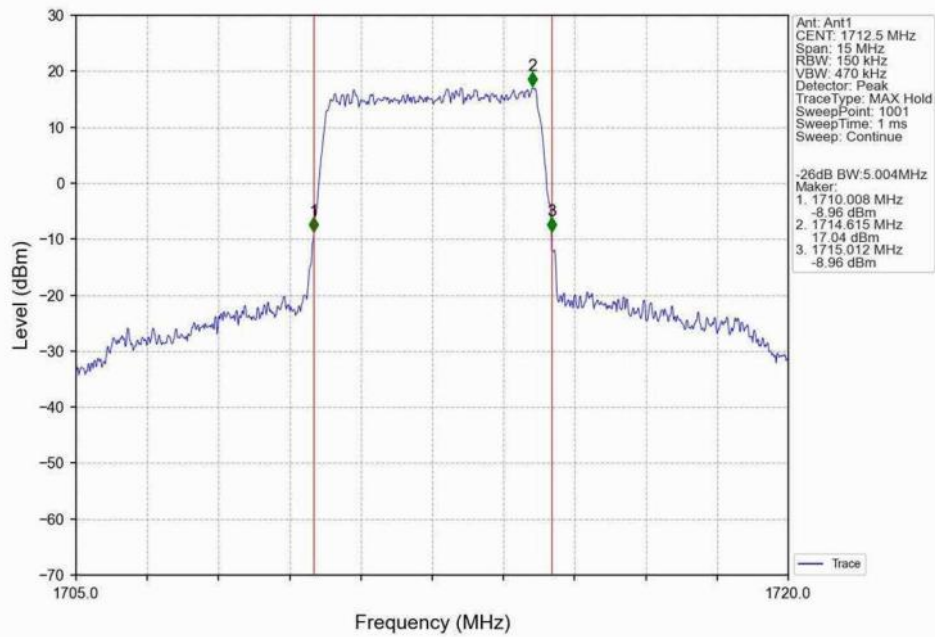
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTNV



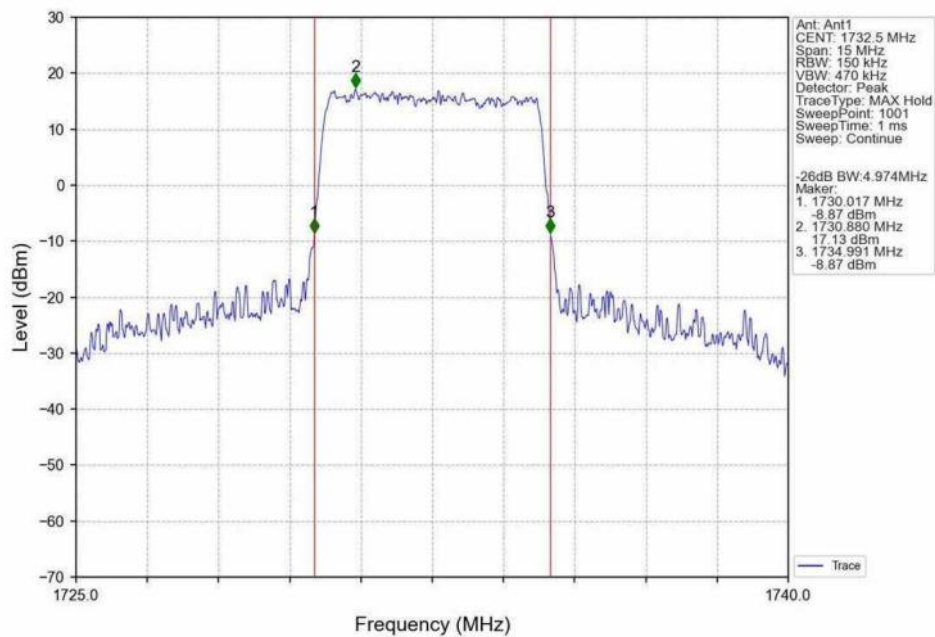
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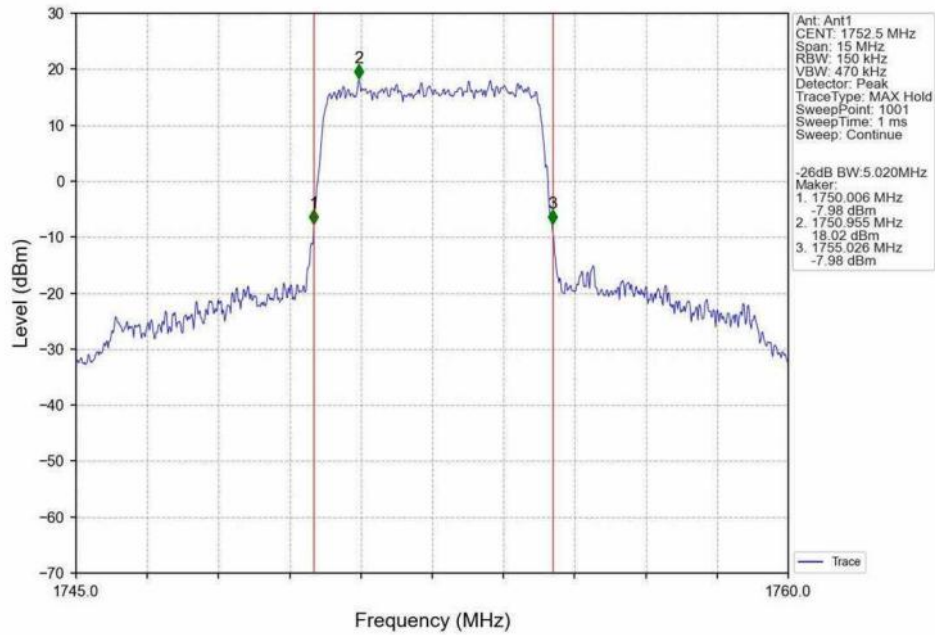
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



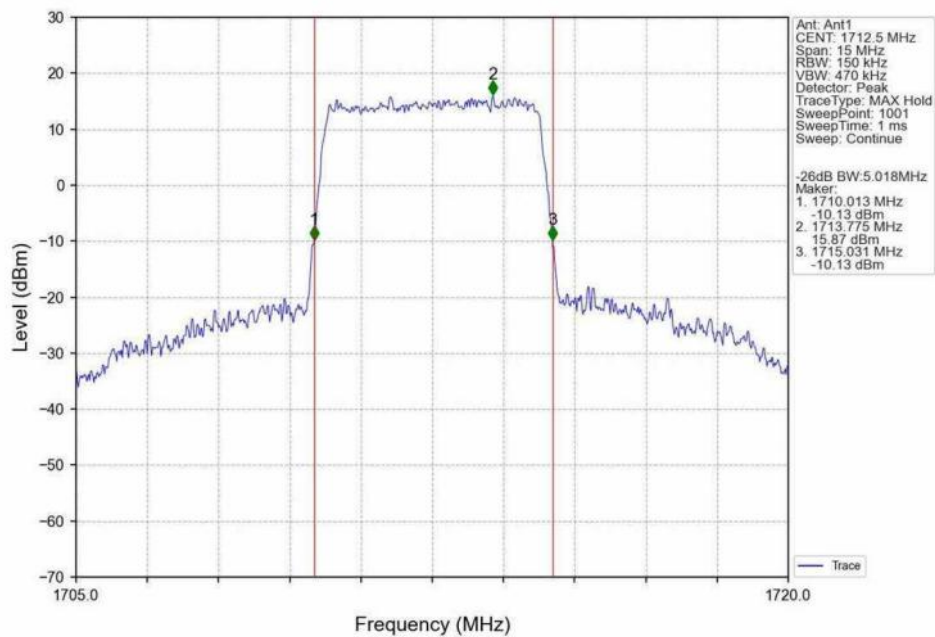
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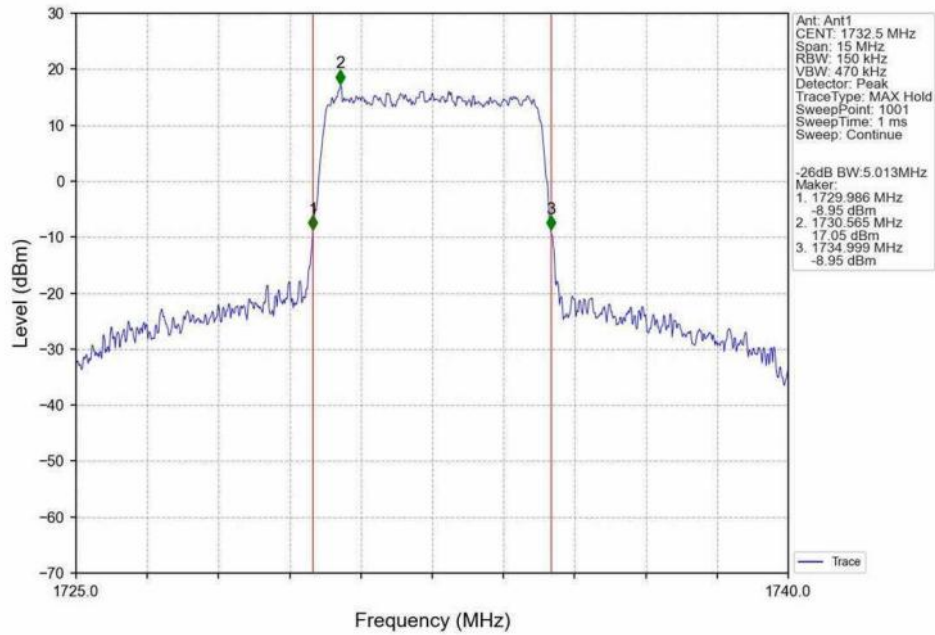
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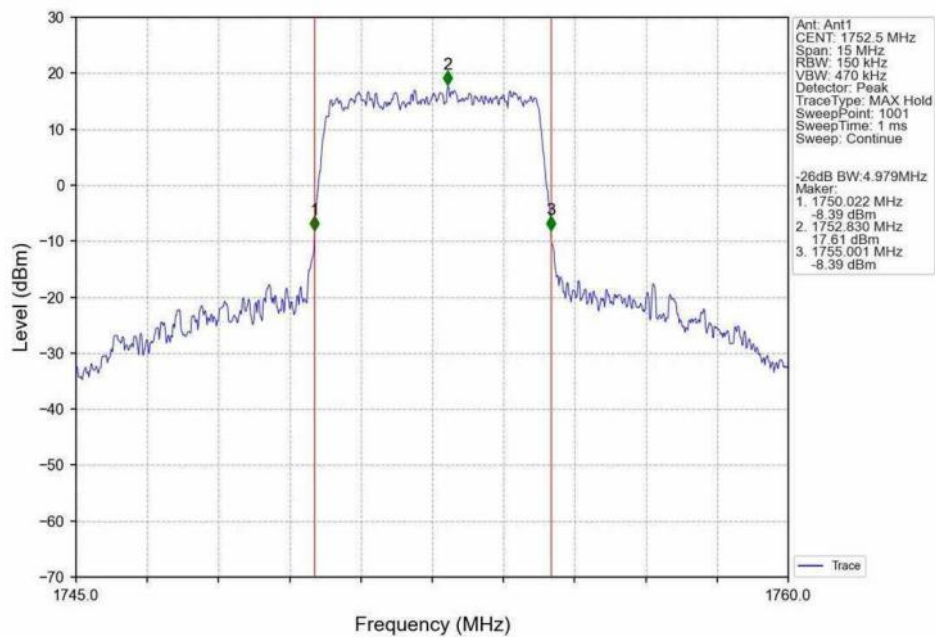
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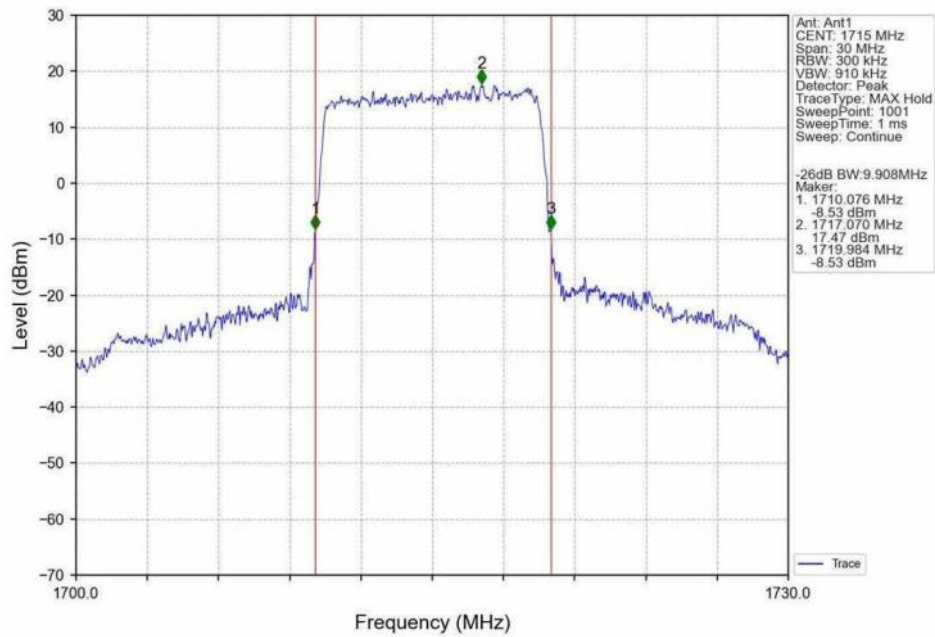
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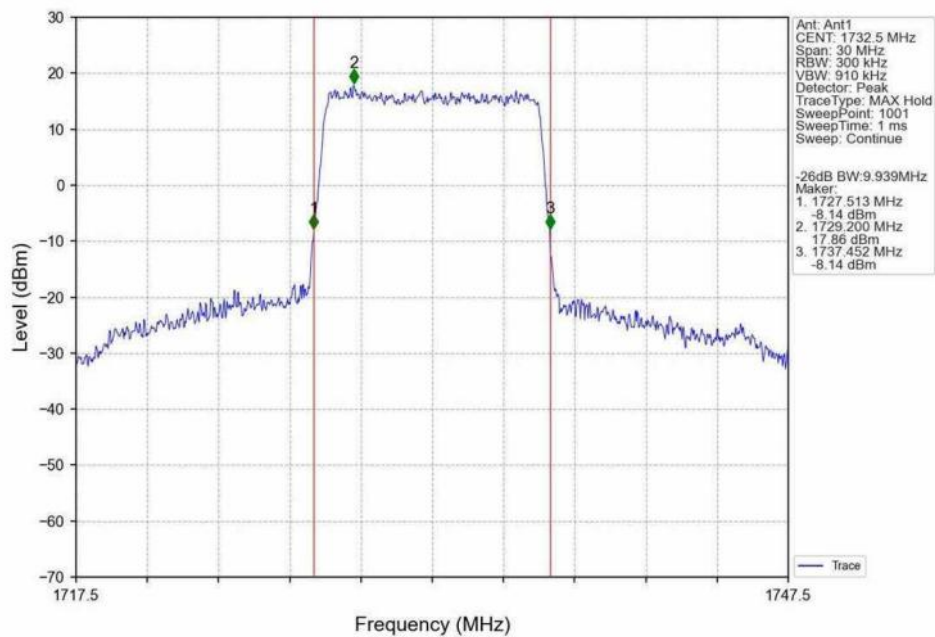
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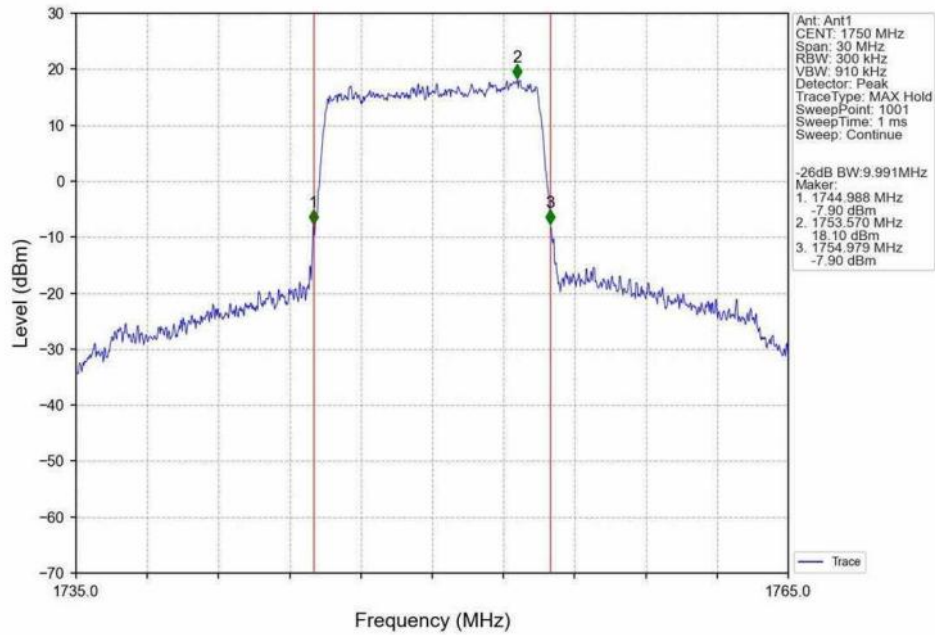
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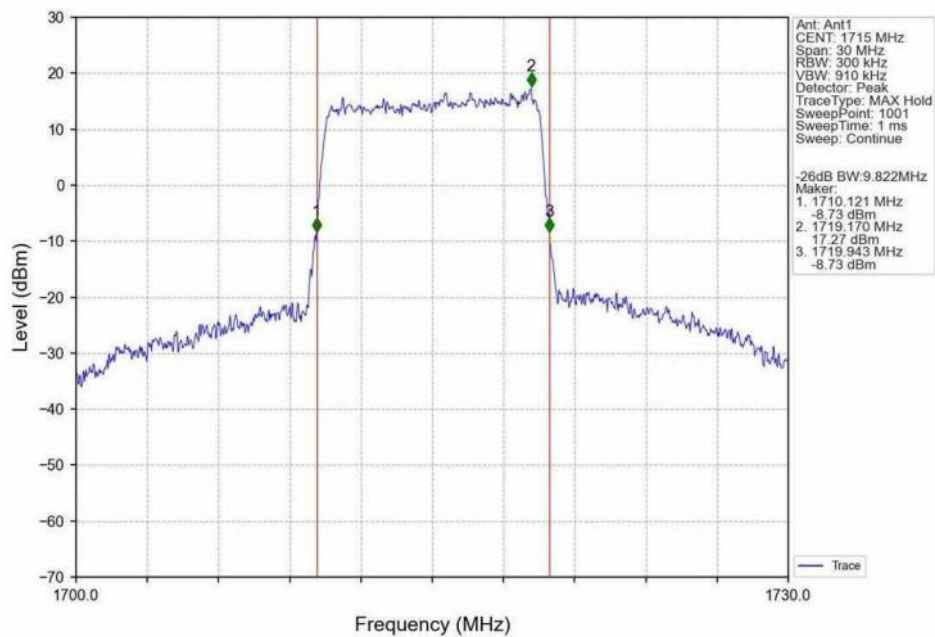
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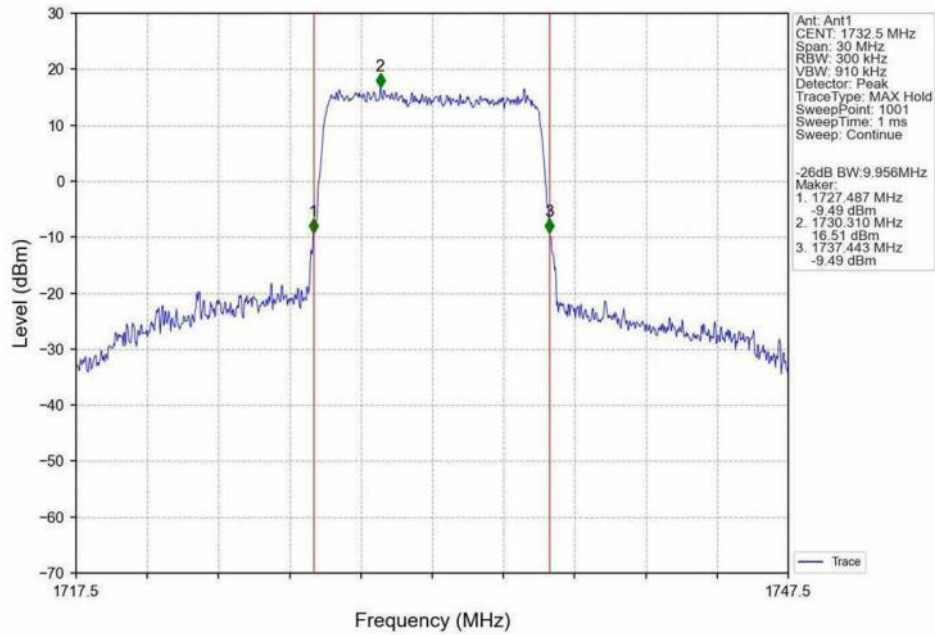
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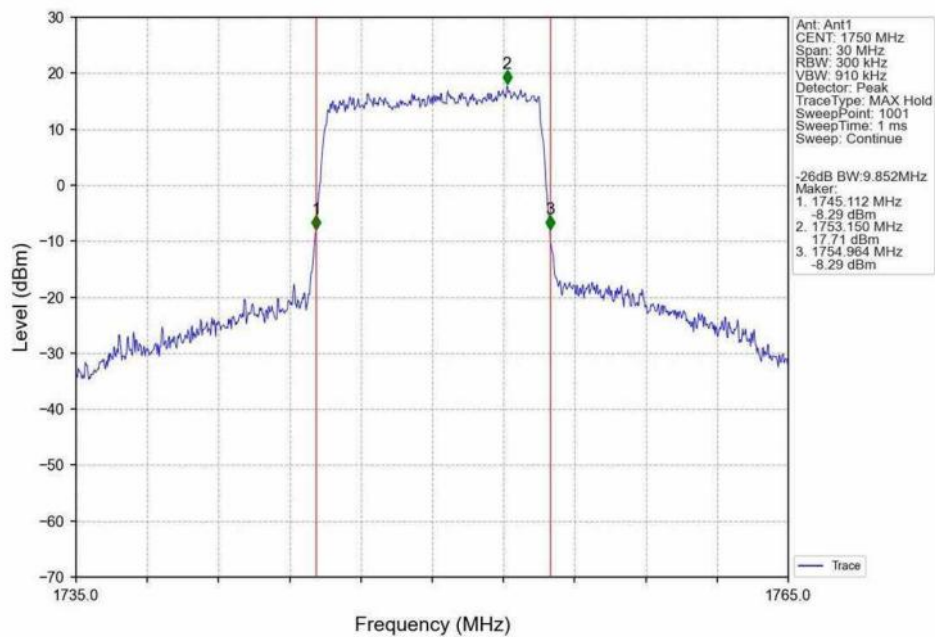
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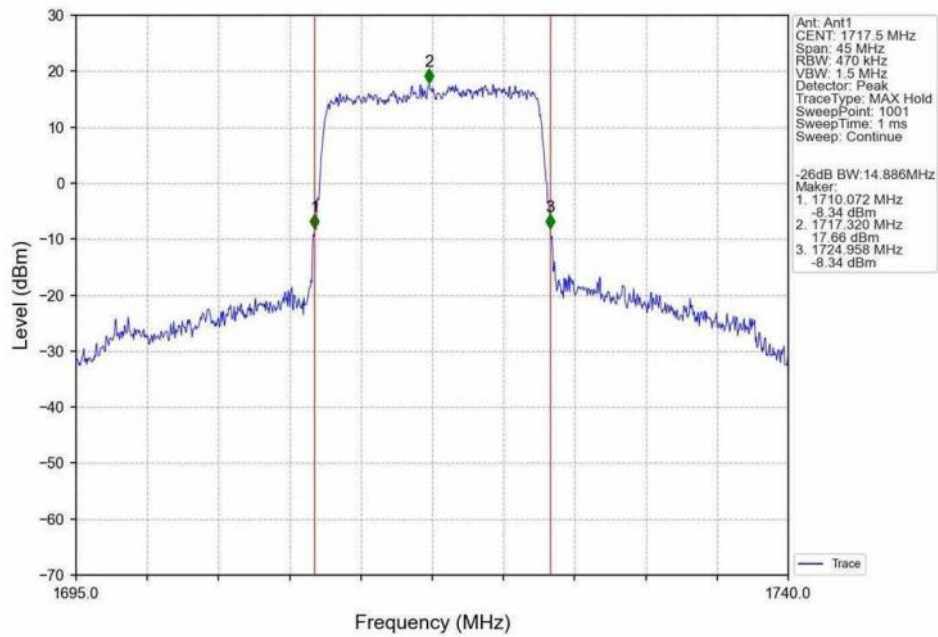
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



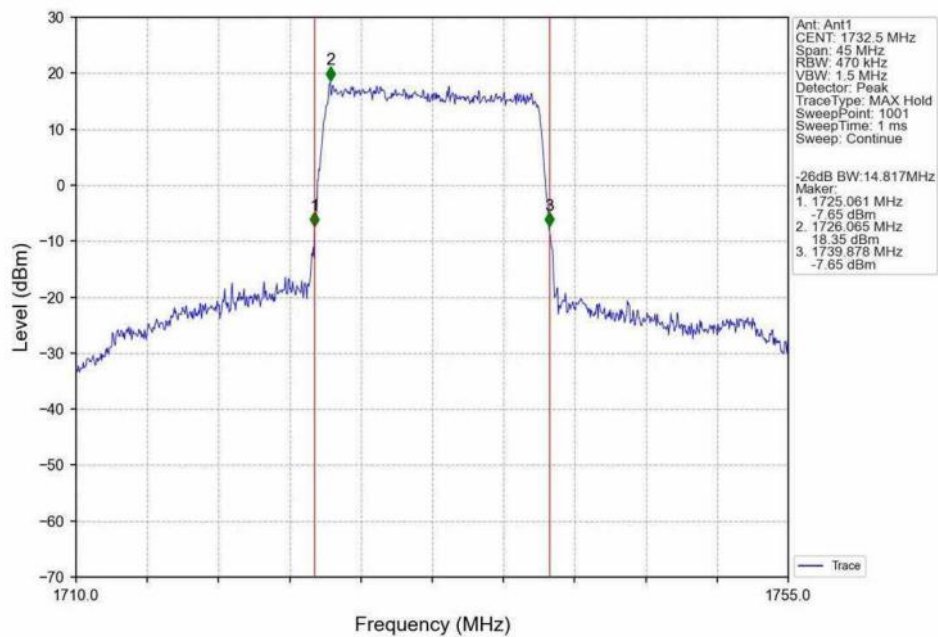
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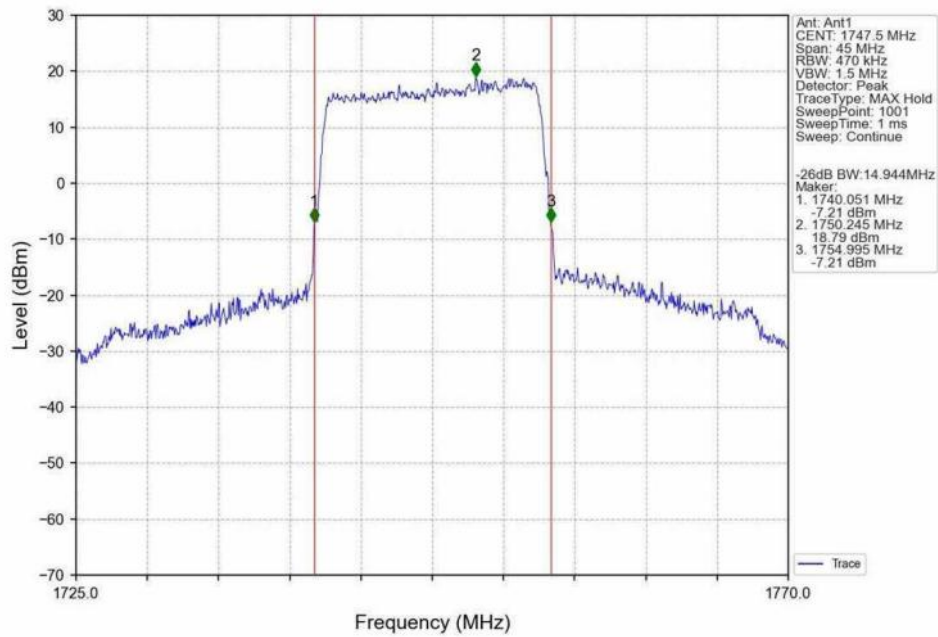
Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTNV



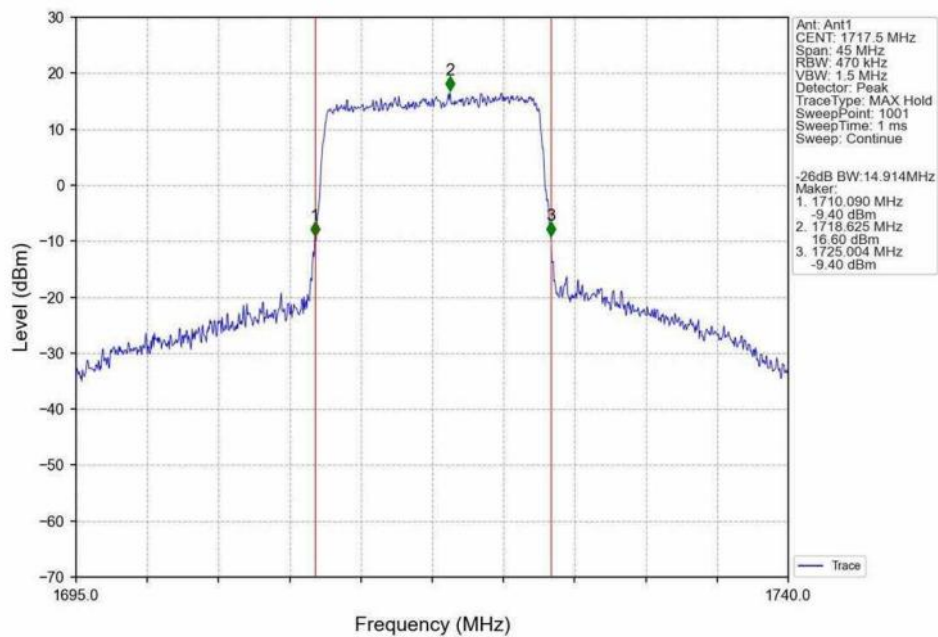
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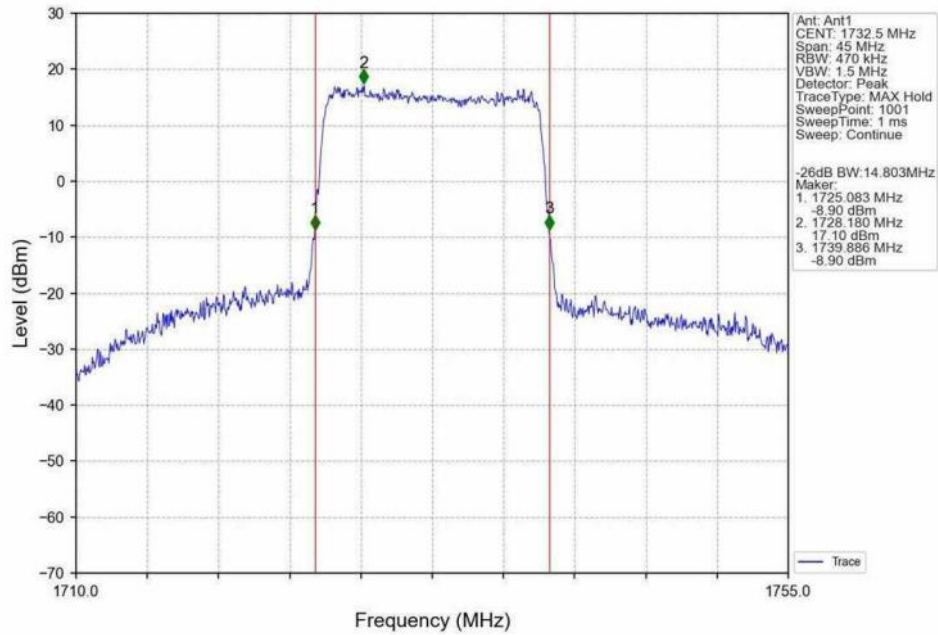
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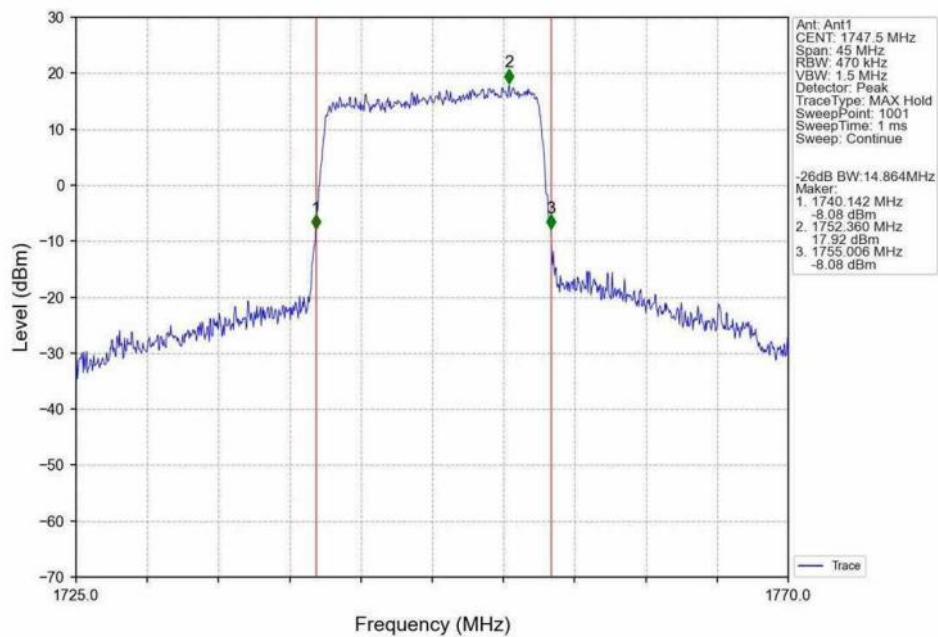
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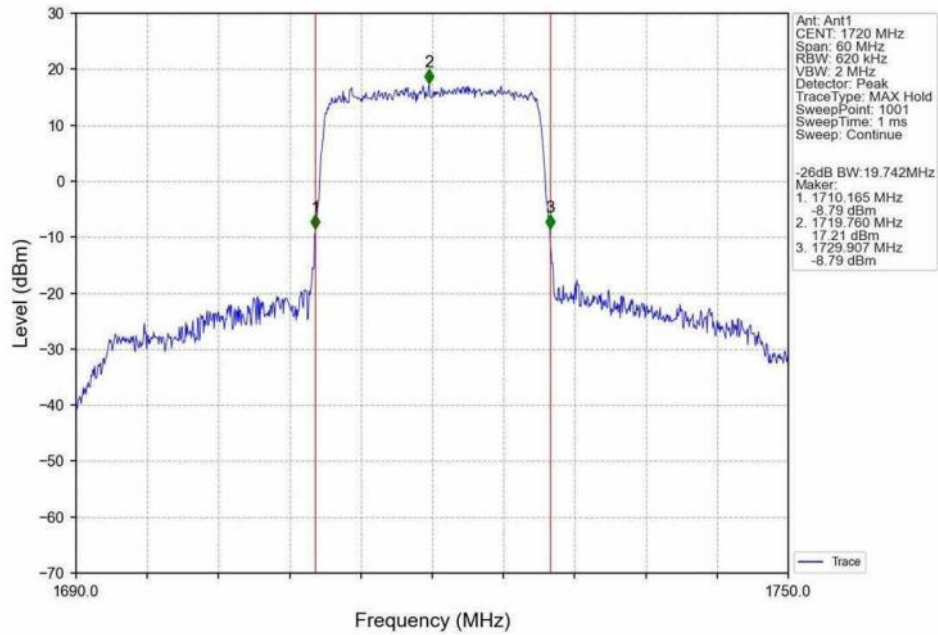
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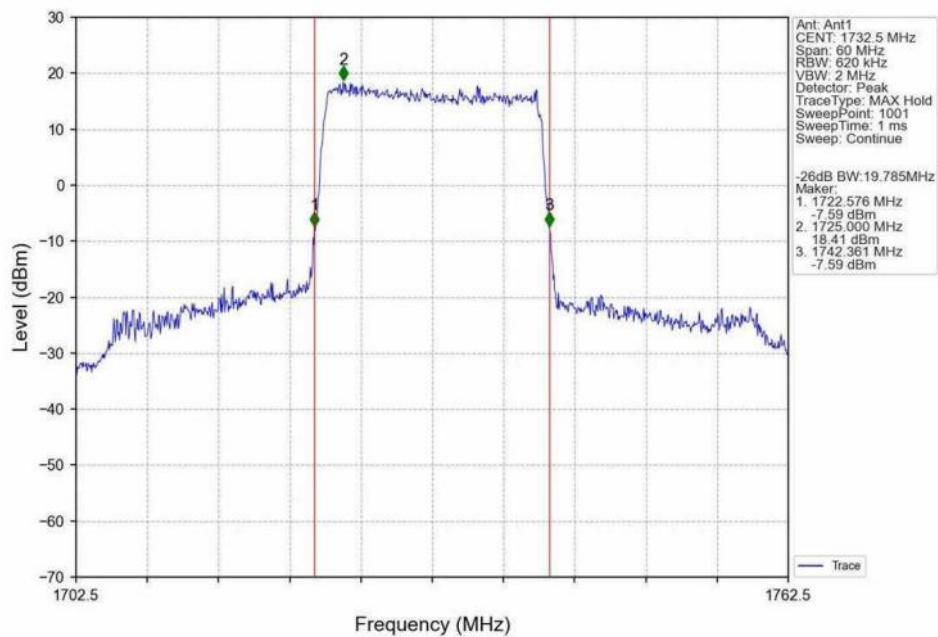
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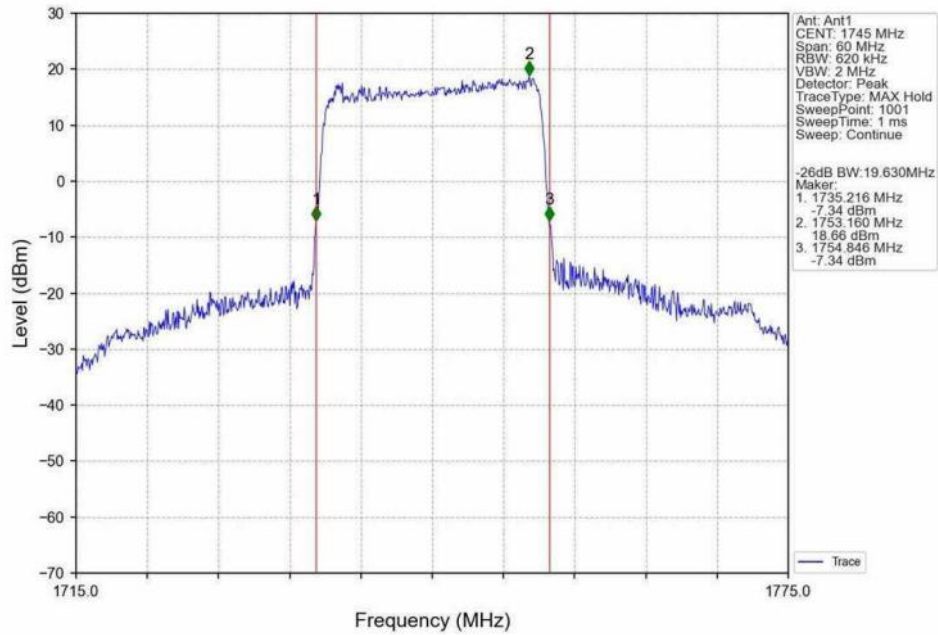
Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV



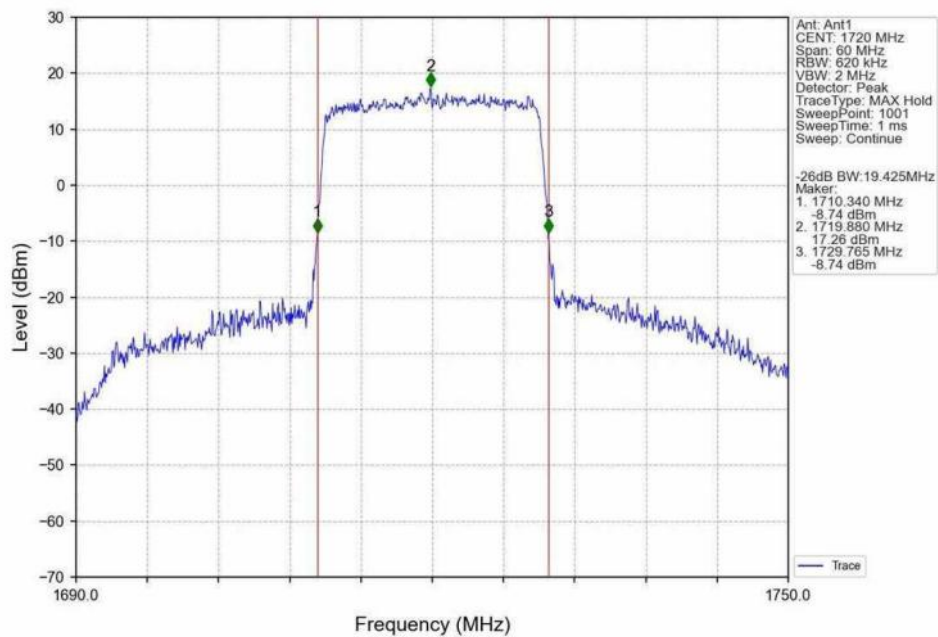
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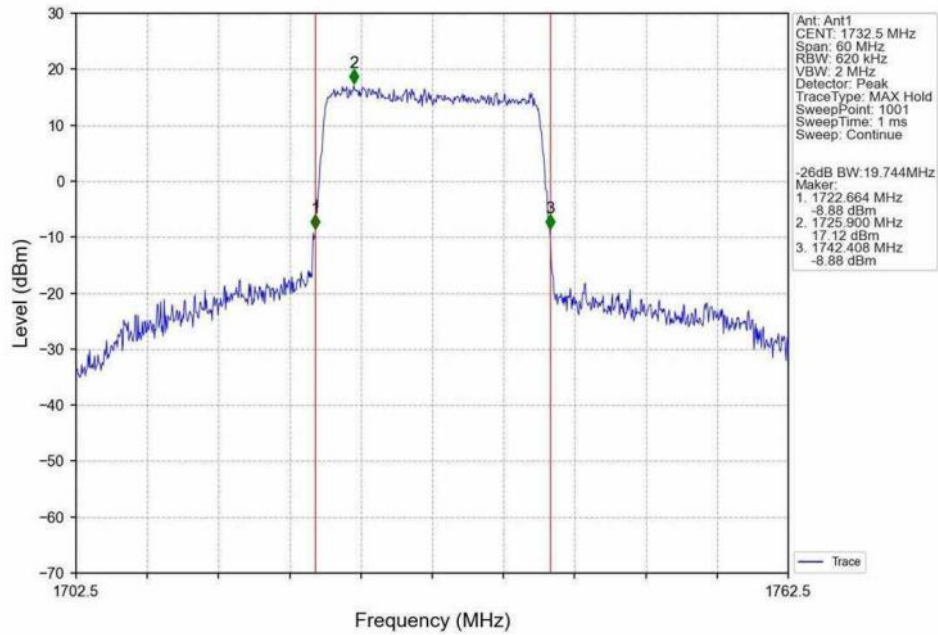
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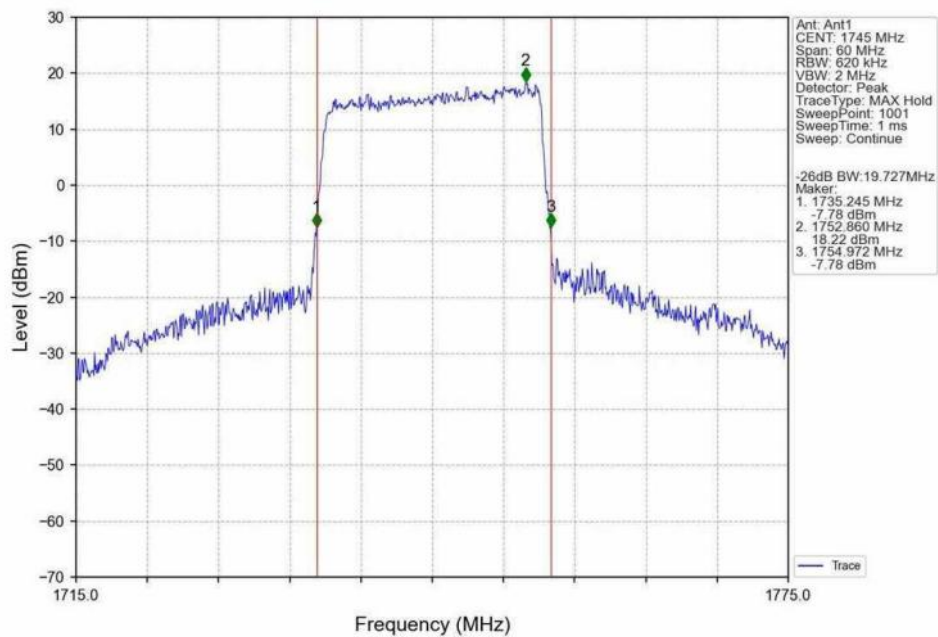
Band4 20MHz 16QAM LCH 1720MHz RB 100 0 NTNV



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 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	5.09	<=13	Pass
	1732.5	6	0	5.32	<=13	Pass
	1754.3	6	0	4.75	<=13	Pass
16QAM	1710.7	6	0	5.86	<=13	Pass
	1732.5	6	0	6.15	<=13	Pass
	1754.3	6	0	5.66	<=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	5.13	<=13	Pass
	1732.5	15	0	5.38	<=13	Pass
	1753.5	15	0	4.90	<=13	Pass
16QAM	1711.5	15	0	5.94	<=13	Pass
	1732.5	15	0	6.23	<=13	Pass
	1753.5	15	0	5.74	<=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	5.33	<=13	Pass
	1732.5	25	0	5.57	<=13	Pass
	1752.5	25	0	5.19	<=13	Pass
16QAM	1712.5	25	0	6.06	<=13	Pass
	1732.5	25	0	6.29	<=13	Pass
	1752.5	25	0	5.91	<=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	5.33	<=13	Pass
	1732.5	50	0	5.55	<=13	Pass
	1750	50	0	5.24	<=13	Pass
16QAM	1715	50	0	6.09	<=13	Pass
	1732.5	50	0	6.32	<=13	Pass
	1750	50	0	5.97	<=13	Pass

5.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
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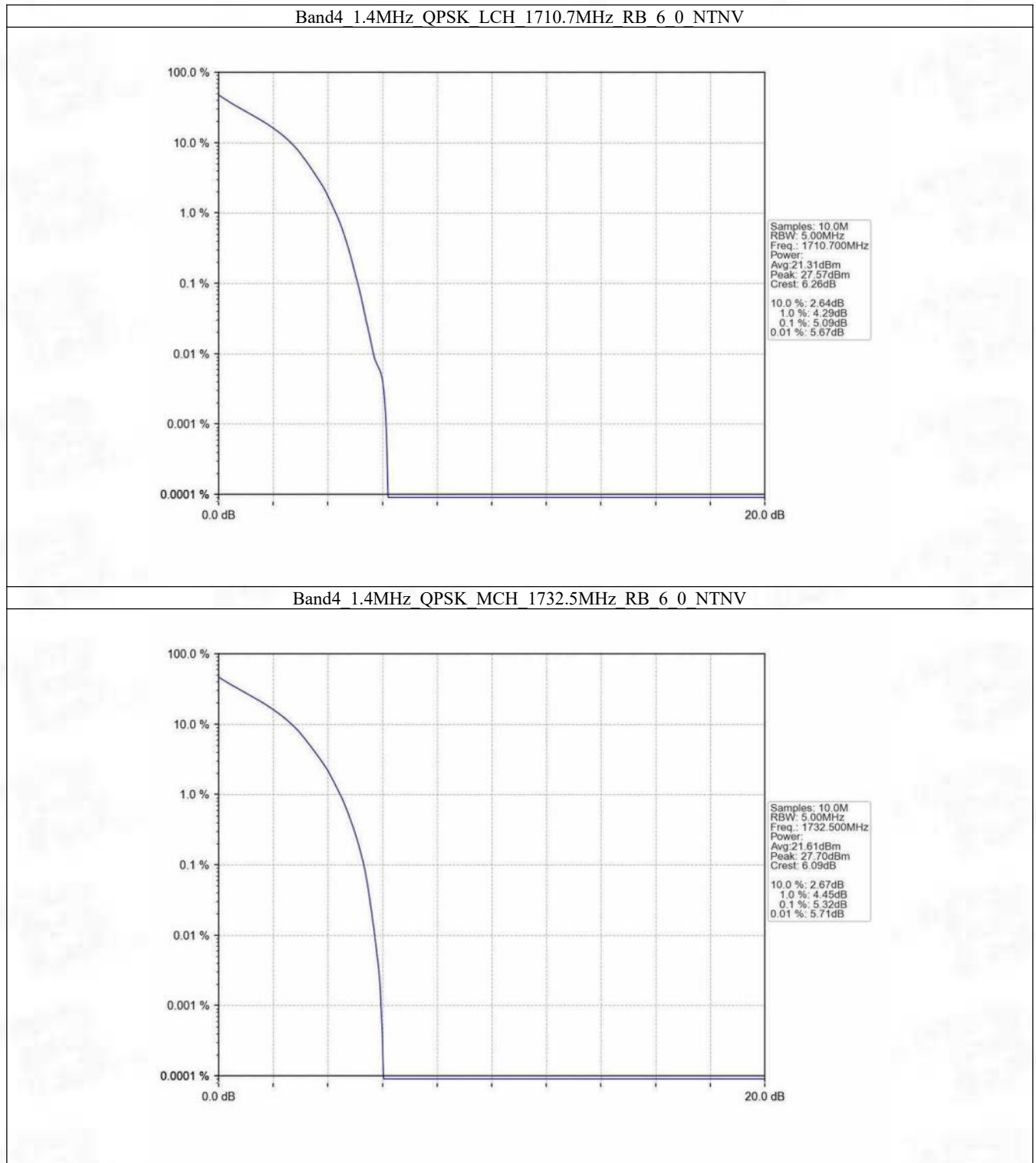
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.39	<=13	Pass
	1732.5	75	0	5.66	<=13	Pass
	1747.5	75	0	5.36	<=13	Pass
16QAM	1717.5	75	0	6.03	<=13	Pass
	1732.5	75	0	6.29	<=13	Pass
	1747.5	75	0	6.01	<=13	Pass

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	5.31	<=13	Pass
	1732.5	100	0	5.49	<=13	Pass
	1745	100	0	5.32	<=13	Pass
16QAM	1720	100	0	6.09	<=13	Pass
	1732.5	100	0	6.25	<=13	Pass
	1745	100	0	6.09	<=13	Pass

5.2 Test Graph

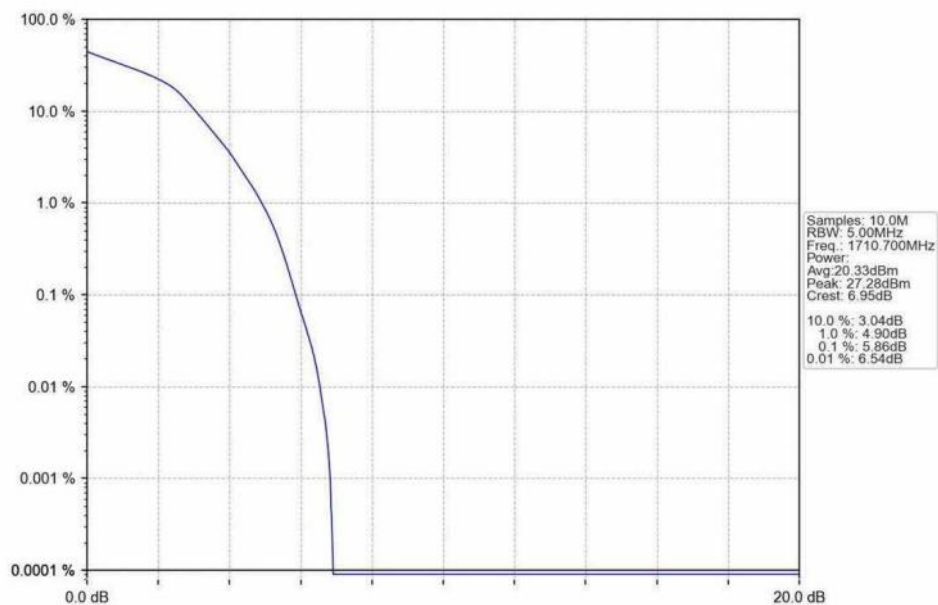
5.2.1 B4_1.4MHz



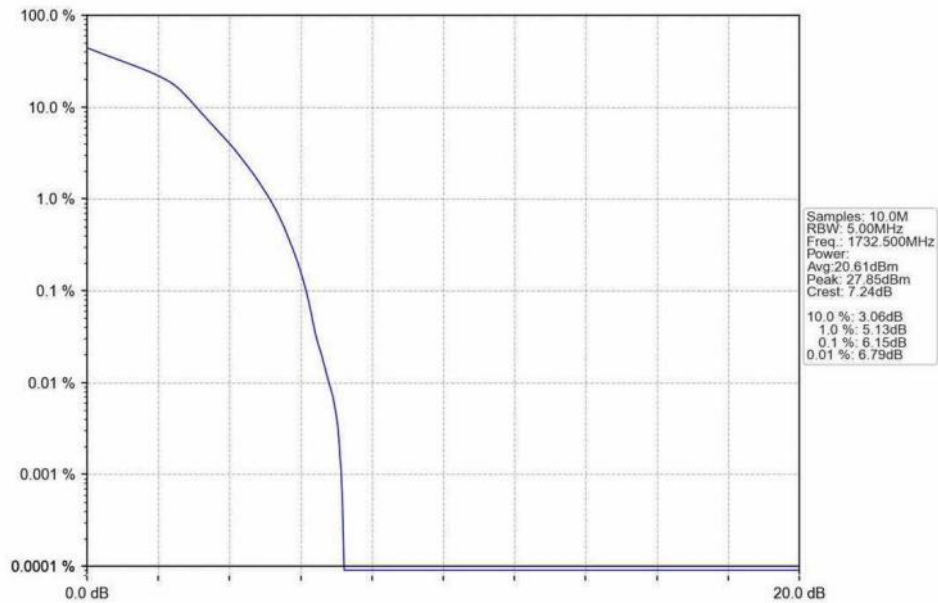
Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV



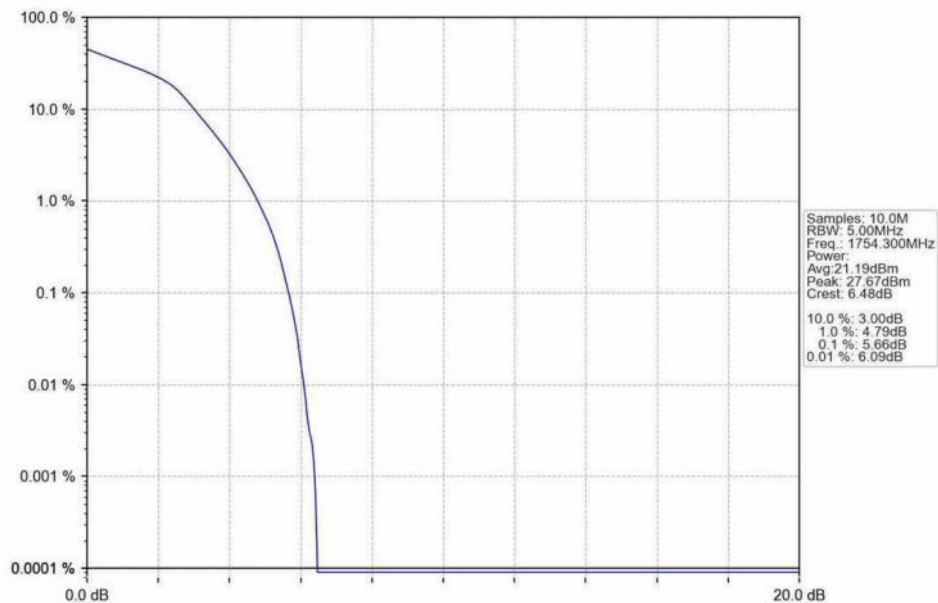
Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTNV



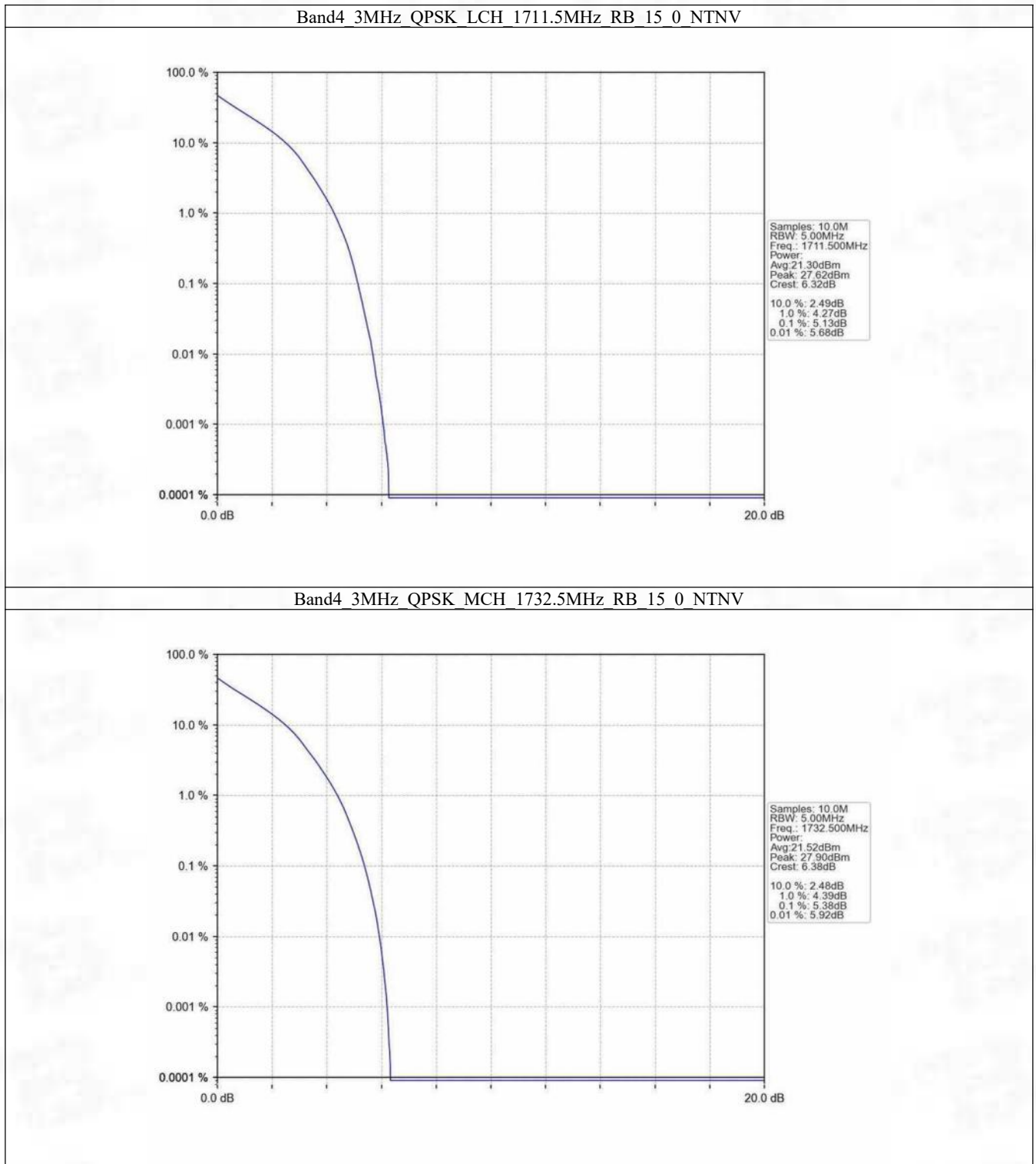
Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



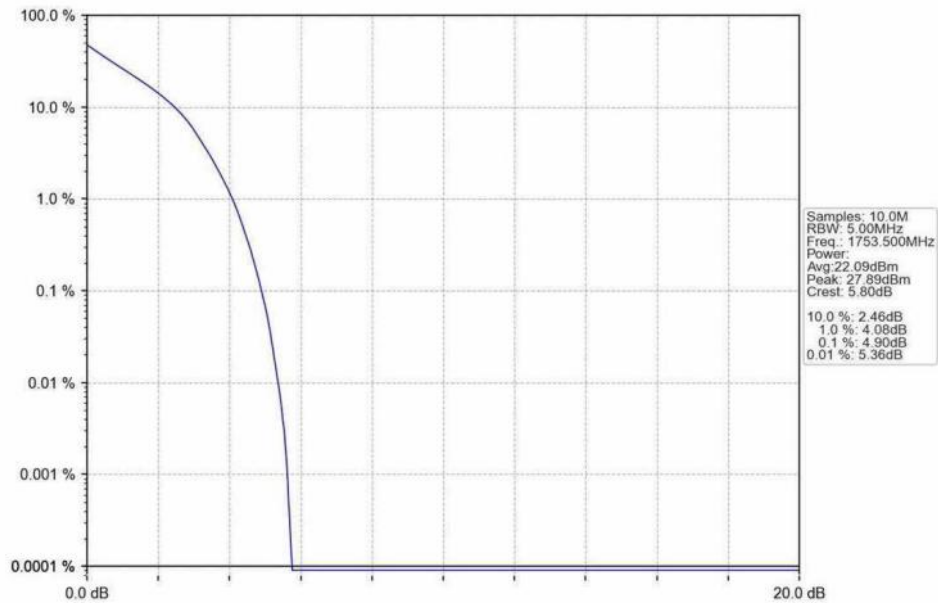
Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV



5.2.2 B4_3MHz



Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV



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

