

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	21.91	-1.39	20.52	<=30	Pass
			2	22.05	-1.39	20.66	<=30	Pass
			5	21.93	-1.39	20.54	<=30	Pass
		3	0	21.97	-1.39	20.58	<=30	Pass
			2	22.02	-1.39	20.63	<=30	Pass
			3	21.98	-1.39	20.59	<=30	Pass
		6	0	21.02	-1.39	19.63	<=30	Pass
	1732.5	1	0	21.63	-1.39	20.24	<=30	Pass
			2	21.74	-1.39	20.35	<=30	Pass
			5	21.63	-1.39	20.24	<=30	Pass
		3	0	21.76	-1.39	20.37	<=30	Pass
			2	21.77	-1.39	20.38	<=30	Pass
			3	21.74	-1.39	20.35	<=30	Pass
		6	0	20.79	-1.39	19.40	<=30	Pass
	1754.3	1	0	21.58	-1.39	20.19	<=30	Pass
			2	21.68	-1.39	20.29	<=30	Pass
			5	21.55	-1.39	20.16	<=30	Pass
		3	0	21.70	-1.39	20.31	<=30	Pass
			2	21.76	-1.39	20.37	<=30	Pass
			3	21.67	-1.39	20.28	<=30	Pass
		6	0	20.77	-1.39	19.38	<=30	Pass
16QAM	1710.7	1	0	20.97	-1.39	19.58	<=30	Pass
			2	21.07	-1.39	19.68	<=30	Pass
			5	21.02	-1.39	19.63	<=30	Pass
		3	0	21.10	-1.39	19.71	<=30	Pass
			2	21.13	-1.39	19.74	<=30	Pass
			3	21.09	-1.39	19.70	<=30	Pass
		6	0	19.96	-1.39	18.57	<=30	Pass
	1732.5	1	0	20.90	-1.39	19.51	<=30	Pass
			2	20.99	-1.39	19.60	<=30	Pass
			5	20.86	-1.39	19.47	<=30	Pass
		3	0	20.80	-1.39	19.41	<=30	Pass
			2	20.83	-1.39	19.44	<=30	Pass
			3	20.82	-1.39	19.43	<=30	Pass
		6	0	19.82	-1.39	18.43	<=30	Pass
	1754.3	1	0	20.60	-1.39	19.21	<=30	Pass
			2	20.70	-1.39	19.31	<=30	Pass
			5	20.61	-1.39	19.22	<=30	Pass
		3	0	20.91	-1.39	19.52	<=30	Pass
			2	20.94	-1.39	19.55	<=30	Pass
			3	20.91	-1.39	19.52	<=30	Pass
		6	0	19.72	-1.39	18.33	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	21.96	-1.39	20.57	<=30	Pass
			7	22.10	-1.39	20.71	<=30	Pass
			14	21.95	-1.39	20.56	<=30	Pass
		8	0	20.99	-1.39	19.60	<=30	Pass
			4	21.04	-1.39	19.65	<=30	Pass
			7	20.98	-1.39	19.59	<=30	Pass
		15	0	20.98	-1.39	19.59	<=30	Pass
	1732.5	1	0	21.64	-1.39	20.25	<=30	Pass
			7	21.78	-1.39	20.39	<=30	Pass
			14	21.59	-1.39	20.20	<=30	Pass
		8	0	20.72	-1.39	19.33	<=30	Pass
			4	20.75	-1.39	19.36	<=30	Pass
			7	20.69	-1.39	19.30	<=30	Pass
		15	0	20.69	-1.39	19.30	<=30	Pass
	1753.5	1	0	21.62	-1.39	20.23	<=30	Pass
			7	21.79	-1.39	20.40	<=30	Pass
			14	21.59	-1.39	20.20	<=30	Pass
		8	0	20.74	-1.39	19.35	<=30	Pass
			4	20.78	-1.39	19.39	<=30	Pass
			7	20.72	-1.39	19.33	<=30	Pass
		15	0	20.69	-1.39	19.30	<=30	Pass
16QAM	1711.5	1	0	21.03	-1.39	19.64	<=30	Pass
			7	21.17	-1.39	19.78	<=30	Pass
			14	20.98	-1.39	19.59	<=30	Pass
		8	0	20.03	-1.39	18.64	<=30	Pass
			4	20.10	-1.39	18.71	<=30	Pass
			7	20.03	-1.39	18.64	<=30	Pass
		15	0	20.06	-1.39	18.67	<=30	Pass
	1732.5	1	0	20.87	-1.39	19.48	<=30	Pass
			7	21.03	-1.39	19.64	<=30	Pass
			14	20.85	-1.39	19.46	<=30	Pass
		8	0	19.72	-1.39	18.33	<=30	Pass
			4	19.74	-1.39	18.35	<=30	Pass
			7	19.70	-1.39	18.31	<=30	Pass
		15	0	19.69	-1.39	18.30	<=30	Pass
	1753.5	1	0	21.21	-1.39	19.82	<=30	Pass
			7	21.33	-1.39	19.94	<=30	Pass
			14	21.15	-1.39	19.76	<=30	Pass
		8	0	19.82	-1.39	18.43	<=30	Pass
			4	19.90	-1.39	18.51	<=30	Pass
			7	19.84	-1.39	18.45	<=30	Pass
		15	0	19.75	-1.39	18.36	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	21.85	-1.39	20.46	<=30	Pass
			13	21.99	-1.39	20.60	<=30	Pass
			24	21.75	-1.39	20.36	<=30	Pass
		12	0	20.92	-1.39	19.53	<=30	Pass
			6	21.01	-1.39	19.62	<=30	Pass
			13	20.92	-1.39	19.53	<=30	Pass

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16QAM	1732.5	25	0	20.93	-1.39	19.54	<=30	Pass
			0	21.55	-1.39	20.16	<=30	Pass
			13	21.65	-1.39	20.26	<=30	Pass
		12	24	21.49	-1.39	20.10	<=30	Pass
			0	20.69	-1.39	19.30	<=30	Pass
			6	20.78	-1.39	19.39	<=30	Pass
			13	20.68	-1.39	19.29	<=30	Pass
		25	0	20.72	-1.39	19.33	<=30	Pass
			0	21.45	-1.39	20.06	<=30	Pass
	1752.5	1	13	21.60	-1.39	20.21	<=30	Pass
			24	21.45	-1.39	20.06	<=30	Pass
			0	20.63	-1.39	19.24	<=30	Pass
		12	6	20.69	-1.39	19.30	<=30	Pass
			13	20.61	-1.39	19.22	<=30	Pass
			25	20.61	-1.39	19.22	<=30	Pass
	1712.5	1	0	20.95	-1.39	19.56	<=30	Pass
			13	21.10	-1.39	19.71	<=30	Pass
			24	20.90	-1.39	19.51	<=30	Pass
		12	0	19.91	-1.39	18.52	<=30	Pass
			6	20.01	-1.39	18.62	<=30	Pass
			13	19.91	-1.39	18.52	<=30	Pass
		25	0	19.97	-1.39	18.58	<=30	Pass
			0	20.89	-1.39	19.50	<=30	Pass
			13	20.96	-1.39	19.57	<=30	Pass
	1732.5	1	24	20.89	-1.39	19.50	<=30	Pass
			0	19.75	-1.39	18.36	<=30	Pass
			6	19.81	-1.39	18.42	<=30	Pass
		12	13	19.71	-1.39	18.32	<=30	Pass
			25	19.73	-1.39	18.34	<=30	Pass
			0	20.31	-1.39	18.92	<=30	Pass
	1752.5	1	13	20.48	-1.39	19.09	<=30	Pass
			24	20.35	-1.39	18.96	<=30	Pass
			0	19.62	-1.39	18.23	<=30	Pass
		12	6	19.69	-1.39	18.30	<=30	Pass
			13	19.61	-1.39	18.22	<=30	Pass
			25	19.65	-1.39	18.26	<=30	Pass

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	21.93	-1.39	20.54	<=30	Pass
			25	22.09	-1.39	20.70	<=30	Pass
			49	21.82	-1.39	20.43	<=30	Pass
		25	0	20.97	-1.39	19.58	<=30	Pass
			13	20.97	-1.39	19.58	<=30	Pass
			25	20.99	-1.39	19.60	<=30	Pass
		50	0	20.99	-1.39	19.60	<=30	Pass
			0	21.62	-1.39	20.23	<=30	Pass
			25	21.79	-1.39	20.40	<=30	Pass
	1732.5	1	49	21.53	-1.39	20.14	<=30	Pass
			0	20.76	-1.39	19.37	<=30	Pass
			13	20.75	-1.39	19.36	<=30	Pass
		25	25	20.70	-1.39	19.31	<=30	Pass
			0	20.76	-1.39	19.37	<=30	Pass
			0	21.51	-1.39	20.12	<=30	Pass

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		25	25	21.78	-1.39	20.39	<=30	Pass		
			49	21.51	-1.39	20.12	<=30	Pass		
			0	20.68	-1.39	19.29	<=30	Pass		
			13	20.67	-1.39	19.28	<=30	Pass		
			25	20.66	-1.39	19.27	<=30	Pass		
		50	0	20.70	-1.39	19.31	<=30	Pass		
		16QAM	1715	1	0	20.95	-1.39	19.56	<=30	Pass
					25	21.12	-1.39	19.73	<=30	Pass
					49	20.89	-1.39	19.50	<=30	Pass
25	0			20.08	-1.39	18.69	<=30	Pass		
	13			20.08	-1.39	18.69	<=30	Pass		
	25			20.09	-1.39	18.70	<=30	Pass		
50	0			20.02	-1.39	18.63	<=30	Pass		
1732.5	1			0	20.87	-1.39	19.48	<=30	Pass	
				25	21.03	-1.39	19.64	<=30	Pass	
		49	20.79	-1.39	19.40	<=30	Pass			
	25	0	19.82	-1.39	18.43	<=30	Pass			
		13	19.80	-1.39	18.41	<=30	Pass			
		25	19.79	-1.39	18.40	<=30	Pass			
	50	0	19.80	-1.39	18.41	<=30	Pass			
	1750	1	0	21.05	-1.39	19.66	<=30	Pass		
			25	21.29	-1.39	19.90	<=30	Pass		
49			21.06	-1.39	19.67	<=30	Pass			
25		0	19.72	-1.39	18.33	<=30	Pass			
		13	19.75	-1.39	18.36	<=30	Pass			
		25	19.75	-1.39	18.36	<=30	Pass			
50		0	19.70	-1.39	18.31	<=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	21.84	-1.39	20.45	<=30	Pass
			38	21.81	-1.39	20.42	<=30	Pass
			74	21.62	-1.39	20.23	<=30	Pass
		36	0	20.96	-1.39	19.57	<=30	Pass
			18	20.93	-1.39	19.54	<=30	Pass
			39	20.88	-1.39	19.49	<=30	Pass
		75	0	20.94	-1.39	19.55	<=30	Pass
	1732.5	1	0	21.53	-1.39	20.14	<=30	Pass
			38	21.63	-1.39	20.24	<=30	Pass
			74	21.51	-1.39	20.12	<=30	Pass
		36	0	20.75	-1.39	19.36	<=30	Pass
			18	20.78	-1.39	19.39	<=30	Pass
			39	20.79	-1.39	19.40	<=30	Pass
		75	0	20.78	-1.39	19.39	<=30	Pass
	1747.5	1	0	21.48	-1.39	20.09	<=30	Pass
			38	21.59	-1.39	20.20	<=30	Pass
			74	21.47	-1.39	20.08	<=30	Pass
		36	0	20.68	-1.39	19.29	<=30	Pass
			18	20.73	-1.39	19.34	<=30	Pass
			39	20.75	-1.39	19.36	<=30	Pass
		75	0	20.69	-1.39	19.30	<=30	Pass
16QAM	1717.5	1	0	21.20	-1.39	19.81	<=30	Pass
			38	21.20	-1.39	19.81	<=30	Pass
			74	21.05	-1.39	19.66	<=30	Pass

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		36	0	19.88	-1.39	18.49	<=30	Pass
			18	19.91	-1.39	18.52	<=30	Pass
			39	19.84	-1.39	18.45	<=30	Pass
		75	0	19.84	-1.39	18.45	<=30	Pass
			0	20.89	-1.39	19.50	<=30	Pass
			38	20.82	-1.39	19.43	<=30	Pass
			74	20.75	-1.39	19.36	<=30	Pass
	1732.5	1	0	19.71	-1.39	18.32	<=30	Pass
			18	19.73	-1.39	18.34	<=30	Pass
			39	19.68	-1.39	18.29	<=30	Pass
		36	0	19.74	-1.39	18.35	<=30	Pass
			0	21.01	-1.39	19.62	<=30	Pass
			38	21.12	-1.39	19.73	<=30	Pass
			74	21.02	-1.39	19.63	<=30	Pass
		75	0	19.62	-1.39	18.23	<=30	Pass
			18	19.71	-1.39	18.32	<=30	Pass
			39	19.68	-1.39	18.29	<=30	Pass
	1747.5	1	0	19.70	-1.39	18.31	<=30	Pass
			0	21.01	-1.39	19.62	<=30	Pass
			38	21.12	-1.39	19.73	<=30	Pass
		36	0	19.62	-1.39	18.23	<=30	Pass
			18	19.71	-1.39	18.32	<=30	Pass
			39	19.68	-1.39	18.29	<=30	Pass
		75	0	19.70	-1.39	18.31	<=30	Pass
			0	21.01	-1.39	19.62	<=30	Pass
			38	21.12	-1.39	19.73	<=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	21.80	-1.39	20.41	<=30	Pass
			50	21.93	-1.39	20.54	<=30	Pass
			99	21.55	-1.39	20.16	<=30	Pass
		50	0	20.86	-1.39	19.47	<=30	Pass
			25	20.89	-1.39	19.50	<=30	Pass
			50	20.78	-1.39	19.39	<=30	Pass
		100	0	20.84	-1.39	19.45	<=30	Pass
			0	21.61	-1.39	20.22	<=30	Pass
			50	21.80	-1.39	20.41	<=30	Pass
	1732.5	1	99	21.45	-1.39	20.06	<=30	Pass
			0	20.72	-1.39	19.33	<=30	Pass
			25	20.77	-1.39	19.38	<=30	Pass
		50	50	20.71	-1.39	19.32	<=30	Pass
			0	20.72	-1.39	19.33	<=30	Pass
			0	20.72	-1.39	19.33	<=30	Pass
		100	0	21.43	-1.39	20.04	<=30	Pass
			0	21.43	-1.39	20.04	<=30	Pass
			50	21.70	-1.39	20.31	<=30	Pass
	1745	1	99	21.41	-1.39	20.02	<=30	Pass
			0	20.55	-1.39	19.16	<=30	Pass
			25	20.61	-1.39	19.22	<=30	Pass
		50	50	20.64	-1.39	19.25	<=30	Pass
			0	20.60	-1.39	19.21	<=30	Pass
			0	21.36	-1.39	19.97	<=30	Pass
		100	50	21.52	-1.39	20.13	<=30	Pass
			99	21.11	-1.39	19.72	<=30	Pass
			0	19.86	-1.39	18.47	<=30	Pass
16QAM	1720	50	25	19.93	-1.39	18.54	<=30	Pass
			50	19.81	-1.39	18.42	<=30	Pass
			0	19.86	-1.39	18.47	<=30	Pass
		100	0	20.84	-1.39	19.45	<=30	Pass
			50	21.07	-1.39	19.68	<=30	Pass
			99	20.66	-1.39	19.27	<=30	Pass
	1732.5	50	0	19.78	-1.39	18.39	<=30	Pass
			25	19.74	-1.39	18.35	<=30	Pass
			0	19.74	-1.39	18.35	<=30	Pass

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		100	50	19.70	-1.39	18.31	<=30	Pass
			0	19.77	-1.39	18.38	<=30	Pass
	1745	1	0	20.77	-1.39	19.38	<=30	Pass
			50	20.97	-1.39	19.58	<=30	Pass
			99	20.73	-1.39	19.34	<=30	Pass
	50		0	19.54	-1.39	18.15	<=30	Pass
			25	19.63	-1.39	18.24	<=30	Pass
			50	19.64	-1.39	18.25	<=30	Pass
	100		0	19.63	-1.39	18.24	<=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	2.875	0.0017	-2.5 to 2.5	Pass
					3.85	4.635	0.0027	-2.5 to 2.5	Pass
					4.43	3.777	0.0022	-2.5 to 2.5	Pass
				-30	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				-20	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-2.346	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.973	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-3.891	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-5.765	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-5.693	-0.0033	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-3.719	-0.0021	-2.5 to 2.5	Pass
					3.85	2.117	0.0012	-2.5 to 2.5	Pass
					4.43	-1.101	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-5.808	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-7.610	-0.0044	-2.5 to 2.5	Pass
				-10	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.659	0.0010	-2.5 to 2.5	Pass
				10	3.85	-1.903	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-7.739	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-5.264	-0.0030	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-8.826	-0.0050	-2.5 to 2.5	Pass
					3.85	-9.341	-0.0053	-2.5 to 2.5	Pass
					4.43	-0.758	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-5.465	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-9.069	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-6.852	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-5.236	-0.0030	-2.5 to 2.5	Pass
				10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				30	3.85	3.147	0.0018	-2.5 to 2.5	Pass
				40	3.85	-8.941	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-7.010	-0.0040	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-2.689	-0.0016	-2.5 to 2.5	Pass
					3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
					4.43	-5.865	-0.0034	-2.5 to 2.5	Pass

				-30	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-2.661	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-4.621	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-10.257	-0.0060	-2.5 to 2.5	Pass
				30	3.85	-3.405	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-9.327	-0.0055	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-6.180	-0.0036	-2.5 to 2.5	Pass
					3.85	-11.816	-0.0068	-2.5 to 2.5	Pass
					4.43	-6.523	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.473	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.033	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-10.529	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-3.448	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-1.402	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-9.141	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-1.688	-0.0010	-2.5 to 2.5	Pass
					3.85	-2.675	-0.0015	-2.5 to 2.5	Pass
					4.43	-10.257	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-11.687	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-7.367	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-16.651	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-11.730	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-4.191	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-11.745	-0.0067	-2.5 to 2.5	Pass
				40	3.85	4.978	0.0028	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0005	-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	-5.808	-0.0034	-2.5 to 2.5	Pass
					3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
					4.43	-5.493	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	1.817	0.0011	-2.5 to 2.5	Pass
				-10	3.85	1.445	0.0008	-2.5 to 2.5	Pass
				0	3.85	1.802	0.0011	-2.5 to 2.5	Pass
				10	3.85	0.916	0.0005	-2.5 to 2.5	Pass
				30	3.85	-1.688	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.85	0.443	0.0003	-2.5 to 2.5	Pass
					3.27	-5.264	-0.0030	-2.5 to 2.5	Pass
					3.85	-11.044	-0.0064	-2.5 to 2.5	Pass
					4.43	-7.982	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	2.189	0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.472	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
				0	3.85	3.762	0.0022	-2.5 to 2.5	Pass
				10	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
				30	3.85	-7.524	-0.0043	-2.5 to 2.5	Pass
				40	3.85	1.502	0.0009	-2.5 to 2.5	Pass
				50	3.85	0.701	0.0004	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.27	-13.247	-0.0076	-2.5 to 2.5	Pass
					3.85	-13.518	-0.0077	-2.5 to 2.5	Pass
					4.43	-0.758	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-9.556	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	0.958	0.0005	-2.5 to 2.5	Pass
				-10	3.85	-7.396	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-2.861	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-13.533	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-15.063	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-6.366	-0.0036	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-1.273	-0.0007	-2.5 to 2.5	Pass
					3.85	-8.583	-0.0050	-2.5 to 2.5	Pass
					4.43	-6.351	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-6.237	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.575	0.0015	-2.5 to 2.5	Pass
				0	3.85	2.689	0.0016	-2.5 to 2.5	Pass
				10	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-6.237	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0003	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	-9.155	-0.0053	-2.5 to 2.5	Pass
					3.85	2.217	0.0013	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-8.955	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-7.381	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-4.377	-0.0025	-2.5 to 2.5	Pass
				10	3.85	0.544	0.0003	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0021	-2.5 to 2.5	Pass
				40	3.85	-1.187	-0.0007	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	-10.099	-0.0058	-2.5 to 2.5	Pass
					3.85	-4.992	-0.0028	-2.5 to 2.5	Pass
					4.43	0.687	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-11.244	-0.0064	-2.5 to 2.5	Pass
				-10	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-5.293	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-2.189	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-7.524	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-5.407	-0.0031	-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	-2.532	-0.0015	-2.5 to 2.5	Pass
					3.85	1.574	0.0009	-2.5 to 2.5	Pass
					4.43	-1.674	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.429	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-2.289	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass

16QAM	1732.5	25	0	30	3.85	2.160	0.0013	-2.5 to 2.5	Pass
				40	3.85	1.230	0.0007	-2.5 to 2.5	Pass
				50	3.85	-7.811	-0.0046	-2.5 to 2.5	Pass
				20	3.27	-5.021	-0.0029	-2.5 to 2.5	Pass
					3.85	-3.920	-0.0023	-2.5 to 2.5	Pass
					4.43	0.386	0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				-20	3.85	2.503	0.0014	-2.5 to 2.5	Pass
				-10	3.85	-3.519	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-1.259	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.186	0.0001	-2.5 to 2.5	Pass
				40	3.85	-4.907	-0.0028	-2.5 to 2.5	Pass
				50	3.85	0.029	0.0000	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-13.161	-0.0075	-2.5 to 2.5	Pass
					3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
					4.43	3.619	0.0021	-2.5 to 2.5	Pass
				-30	3.85	-10.543	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-10.586	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-11.387	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-12.231	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				30	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				40	3.85	-12.689	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-7.467	-0.0043	-2.5 to 2.5	Pass
	1712.5	25	0	20	3.27	-4.492	-0.0026	-2.5 to 2.5	Pass
					3.85	4.592	0.0027	-2.5 to 2.5	Pass
					4.43	-2.575	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-5.822	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				0	3.85	0.772	0.0005	-2.5 to 2.5	Pass
				10	3.85	-8.698	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-5.980	-0.0035	-2.5 to 2.5	Pass
				40	3.85	2.804	0.0016	-2.5 to 2.5	Pass
				50	3.85	-8.597	-0.0050	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-2.961	-0.0017	-2.5 to 2.5	Pass
					3.85	-9.284	-0.0054	-2.5 to 2.5	Pass
					4.43	-7.181	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	5.364	0.0031	-2.5 to 2.5	Pass
				-10	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-6.366	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-7.010	-0.0040	-2.5 to 2.5	Pass
				30	3.85	-8.755	-0.0051	-2.5 to 2.5	Pass
				40	3.85	1.359	0.0008	-2.5 to 2.5	Pass
				50	3.85	-8.025	-0.0046	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-0.758	-0.0004	-2.5 to 2.5	Pass
					3.85	-4.163	-0.0024	-2.5 to 2.5	Pass
					4.43	3.548	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-6.194	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-3.848	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-9.198	-0.0052	-2.5 to 2.5	Pass
				0	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				10	3.85	-9.384	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-3.047	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-5.980	-0.0034	-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	-8.469	-0.0049	-2.5 to 2.5	Pass
					3.85	-3.862	-0.0023	-2.5 to 2.5	Pass
					4.43	-6.881	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-7.682	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-3.991	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-2.518	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-4.892	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-6.080	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-7.725	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-4.864	-0.0028	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-5.021	-0.0029	-2.5 to 2.5	Pass
					3.85	1.802	0.0010	-2.5 to 2.5	Pass
					4.43	-2.475	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-9.270	-0.0054	-2.5 to 2.5	Pass
				40	3.85	1.173	0.0007	-2.5 to 2.5	Pass
				50	3.85	-6.323	-0.0036	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-10.600	-0.0061	-2.5 to 2.5	Pass
					3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
					4.43	-12.317	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-12.674	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-5.121	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-4.678	-0.0027	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-7.954	-0.0046	-2.5 to 2.5	Pass
					3.85	-9.298	-0.0054	-2.5 to 2.5	Pass
					4.43	-7.753	-0.0045	-2.5 to 2.5	Pass
				-30	3.85	-6.423	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-13.304	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-5.064	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-5.293	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-7.110	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-8.812	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-8.726	-0.0051	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	-8.411	-0.0049	-2.5 to 2.5	Pass
					3.85	-5.808	-0.0034	-2.5 to 2.5	Pass
					4.43	-5.808	-0.0034	-2.5 to 2.5	Pass
				-30	3.85	-2.089	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	2.403	0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
				10	3.85	1.574	0.0009	-2.5 to 2.5	Pass
				30	3.85	-6.080	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass

	1750	50	0	50	3.85	-6.537	-0.0038	-2.5 to 2.5	Pass
				20	3.27	-1.760	-0.0010	-2.5 to 2.5	Pass
					3.85	-8.125	-0.0046	-2.5 to 2.5	Pass
					4.43	-7.424	-0.0042	-2.5 to 2.5	Pass
				-30	3.85	-8.025	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-8.154	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-1.402	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.702	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-10.986	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-7.081	-0.0040	-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	-6.752	-0.0039	-2.5 to 2.5	Pass
					3.85	-3.176	-0.0018	-2.5 to 2.5	Pass
					4.43	-6.137	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-5.651	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-4.449	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-6.995	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-5.851	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-4.878	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-6.437	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-2.475	-0.0014	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-8.326	-0.0048	-2.5 to 2.5	Pass
					3.85	-9.842	-0.0057	-2.5 to 2.5	Pass
					4.43	-3.304	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-4.148	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-0.873	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-6.824	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-8.025	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-4.134	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-2.933	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-2.117	-0.0012	-2.5 to 2.5	Pass
					3.85	-3.691	-0.0021	-2.5 to 2.5	Pass
					4.43	3.090	0.0018	-2.5 to 2.5	Pass
				-30	3.85	-5.507	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-1.245	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.073	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-6.809	-0.0039	-2.5 to 2.5	Pass
				10	3.85	-2.332	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-3.147	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-11.516	-0.0066	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	-6.466	-0.0038	-2.5 to 2.5	Pass
					3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
					4.43	-3.304	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-6.866	-0.0040	-2.5 to 2.5	Pass
				-10	3.85	-7.410	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-6.223	-0.0036	-2.5 to 2.5	Pass

				10	3.85	-6.309	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-5.150	-0.0030	-2.5 to 2.5	Pass
				40	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-6.638	-0.0039	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-5.622	-0.0032	-2.5 to 2.5	Pass
					3.85	-5.050	-0.0029	-2.5 to 2.5	Pass
					4.43	-4.449	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-5.393	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-4.792	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-6.566	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-1.273	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				30	3.85	-5.050	-0.0029	-2.5 to 2.5	Pass
				40	3.85	-4.177	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	-5.937	-0.0034	-2.5 to 2.5	Pass
					3.85	-7.524	-0.0043	-2.5 to 2.5	Pass
					4.43	-2.789	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-4.406	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-1.173	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-3.891	-0.0022	-2.5 to 2.5	Pass
				10	3.85	-0.229	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-4.563	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-9.255	-0.0053	-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	-0.587	-0.0003	-2.5 to 2.5	Pass
					3.85	-3.562	-0.0021	-2.5 to 2.5	Pass
					4.43	-3.333	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-8.097	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-7.081	-0.0041	-2.5 to 2.5	Pass
				-10	3.85	-1.531	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-5.937	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-2.918	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-5.007	-0.0029	-2.5 to 2.5	Pass
				50	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-3.176	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
					4.43	-2.718	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-5.622	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-4.091	-0.0024	-2.5 to 2.5	Pass
				-10	3.85	-4.306	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-6.752	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-9.913	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-7.410	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-4.306	-0.0025	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.146	-0.0012	-2.5 to 2.5	Pass
					3.85	-6.123	-0.0035	-2.5 to 2.5	Pass
					4.43	-6.967	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-5.951	-0.0034	-2.5 to 2.5	Pass

				-20	3.85	-7.353	-0.0042	-2.5 to 2.5	Pass
				-10	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-10.371	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-2.346	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-8.698	-0.0050	-2.5 to 2.5	Pass
				50	3.85	-2.360	-0.0014	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	-5.336	-0.0031	-2.5 to 2.5	Pass
					3.85	-4.764	-0.0028	-2.5 to 2.5	Pass
					4.43	-4.020	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-8.154	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-6.909	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-3.004	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-5.879	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-7.024	-0.0041	-2.5 to 2.5	Pass
	50	3.85	-5.608	-0.0033	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.27	-5.093	-0.0029	-2.5 to 2.5	Pass
					3.85	-4.992	-0.0029	-2.5 to 2.5	Pass
					4.43	-3.519	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-7.095	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-3.505	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-6.552	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-4.134	-0.0024	-2.5 to 2.5	Pass
				30	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-9.685	-0.0056	-2.5 to 2.5	Pass
	50	3.85	-6.795	-0.0039	-2.5 to 2.5	Pass			
	1745	100	0	20	3.27	-8.340	-0.0048	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0054	-2.5 to 2.5	Pass
					4.43	-6.552	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-4.578	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-4.392	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-4.478	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-11.344	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-3.190	-0.0018	-2.5 to 2.5	Pass
30				3.85	-4.206	-0.0024	-2.5 to 2.5	Pass	
40				3.85	-3.920	-0.0022	-2.5 to 2.5	Pass	
50	3.85	-1.330	-0.0008	-2.5 to 2.5	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		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / 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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

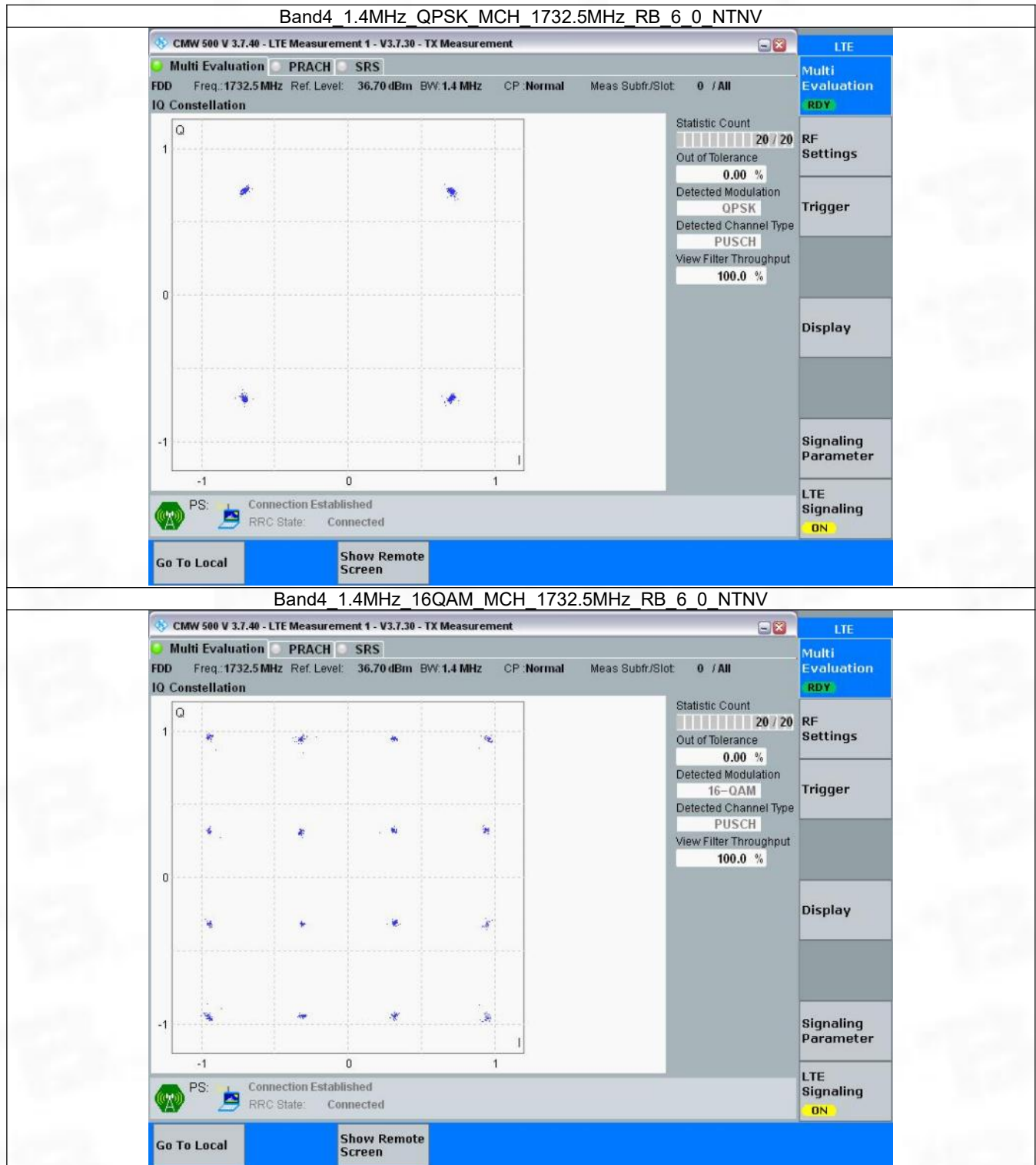
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

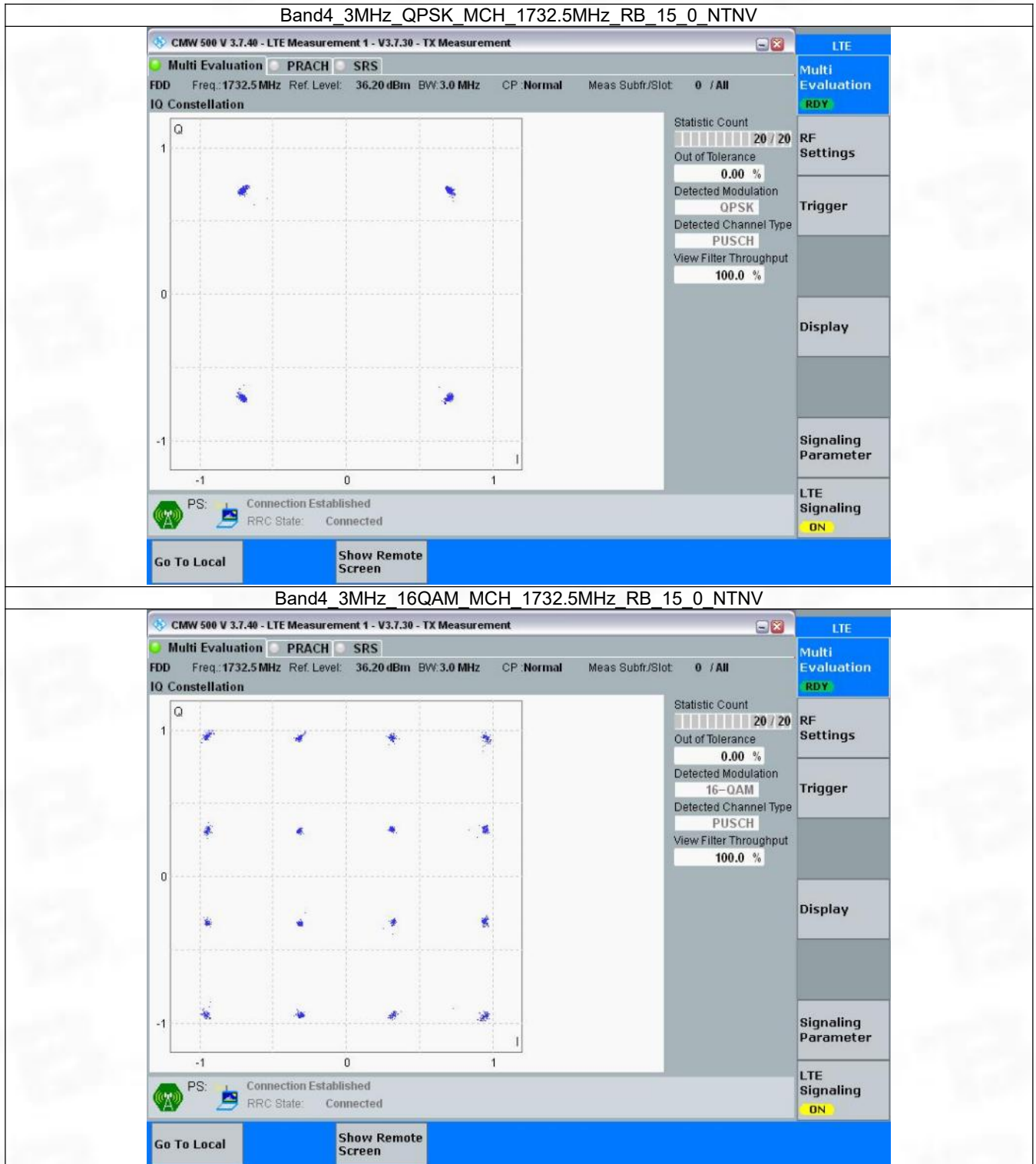
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

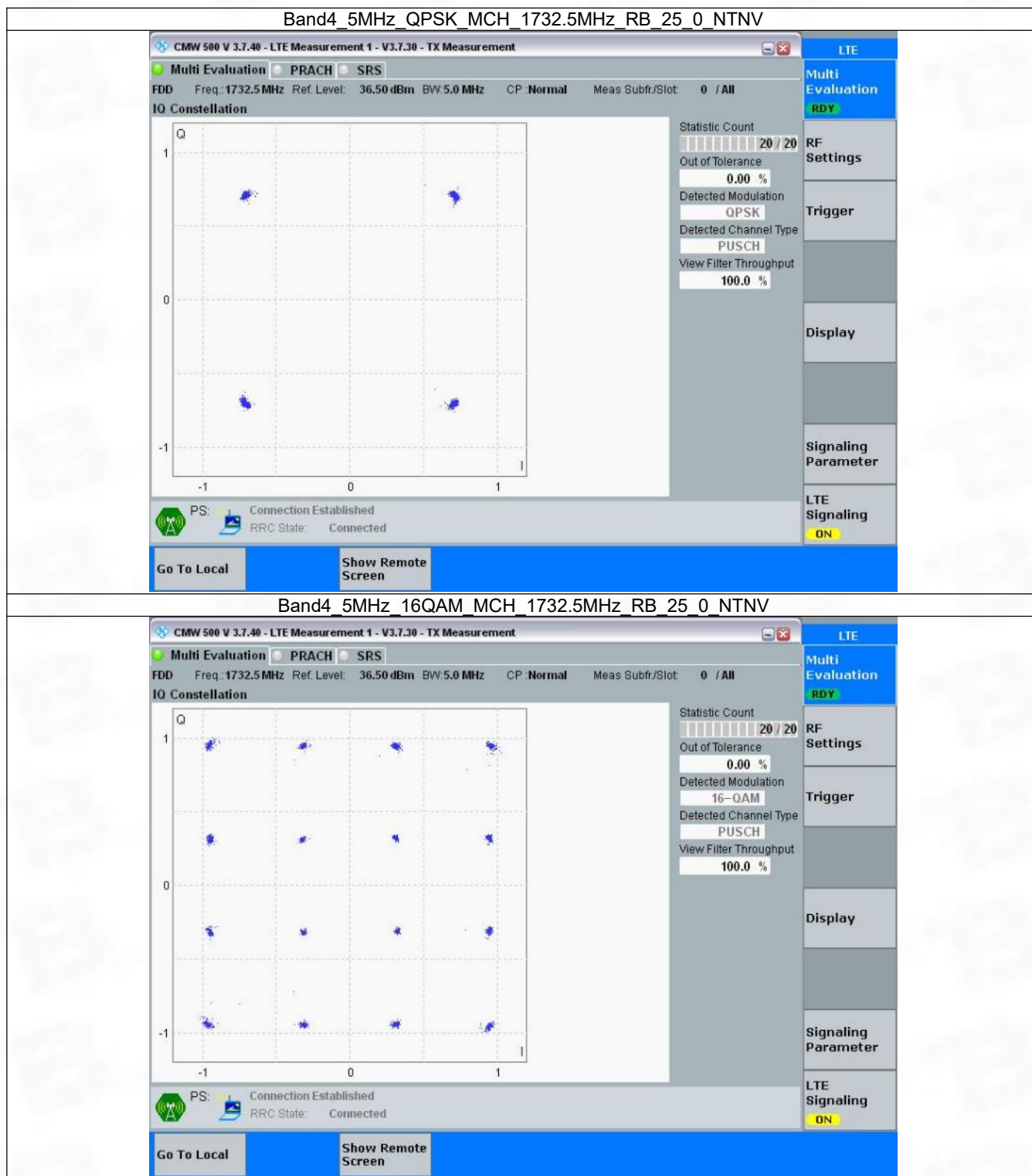
3.2.1 B4_1.4MHz



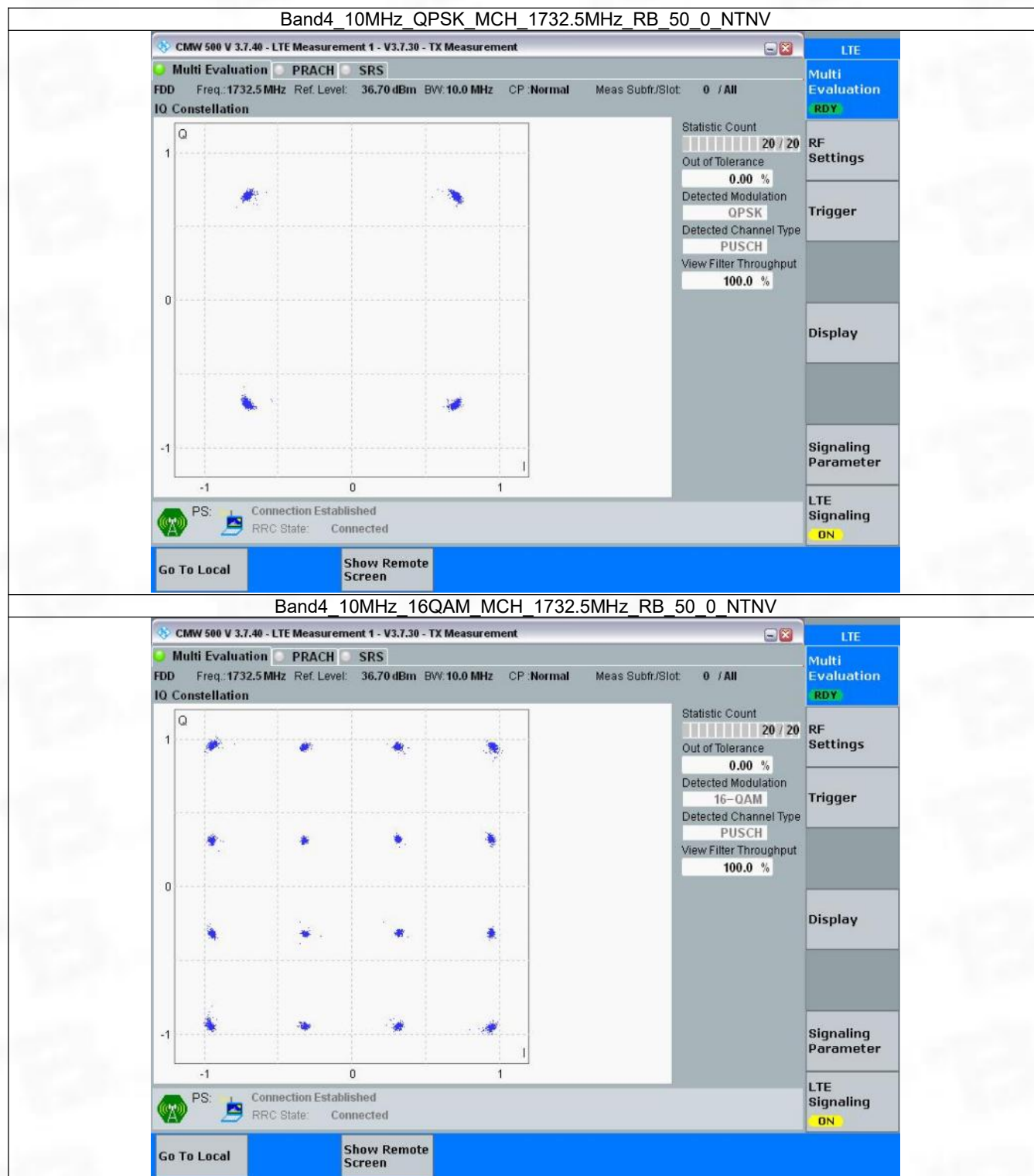
3.2.2 B4_3MHz



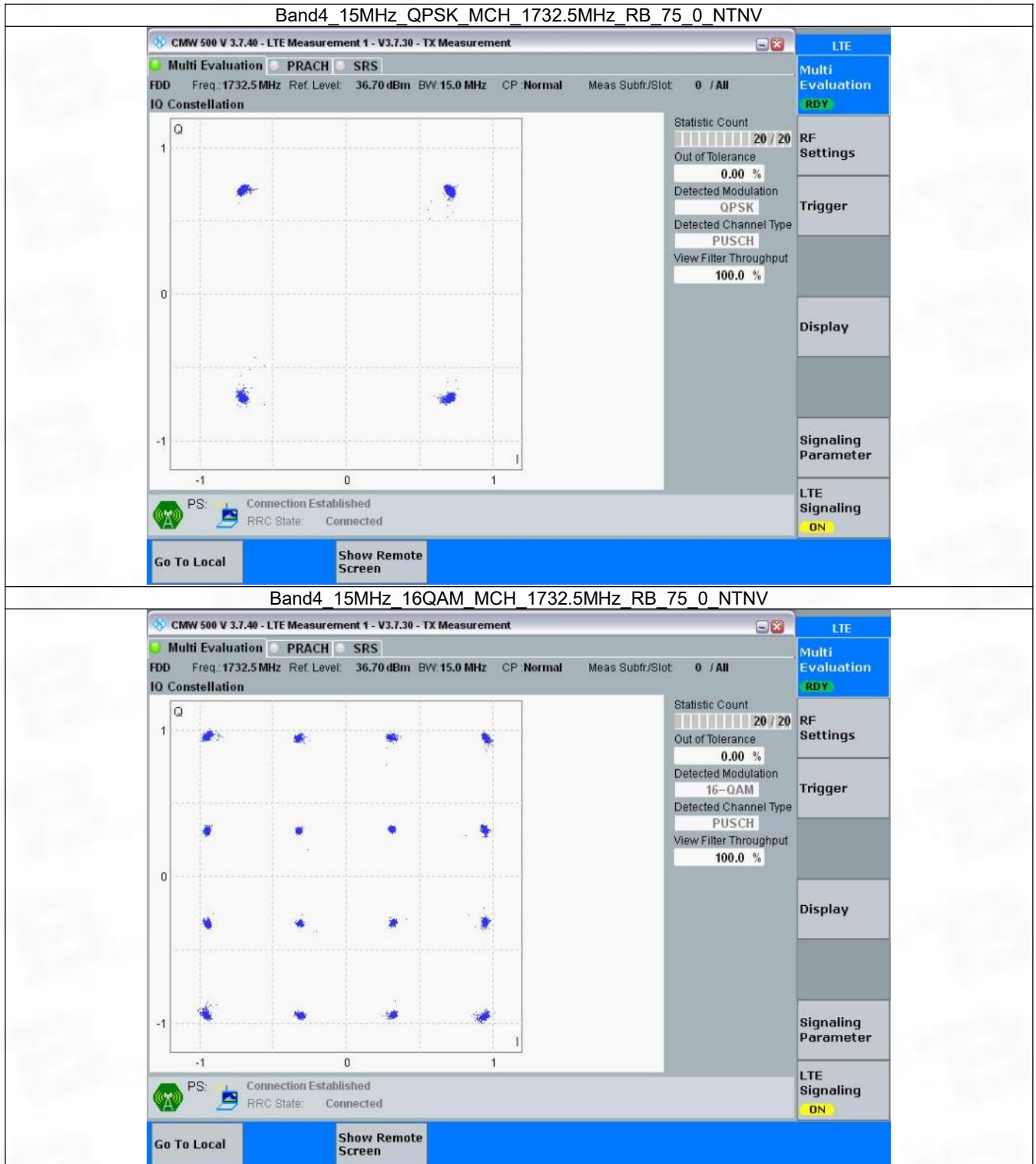
3.2.3 B4_5MHz



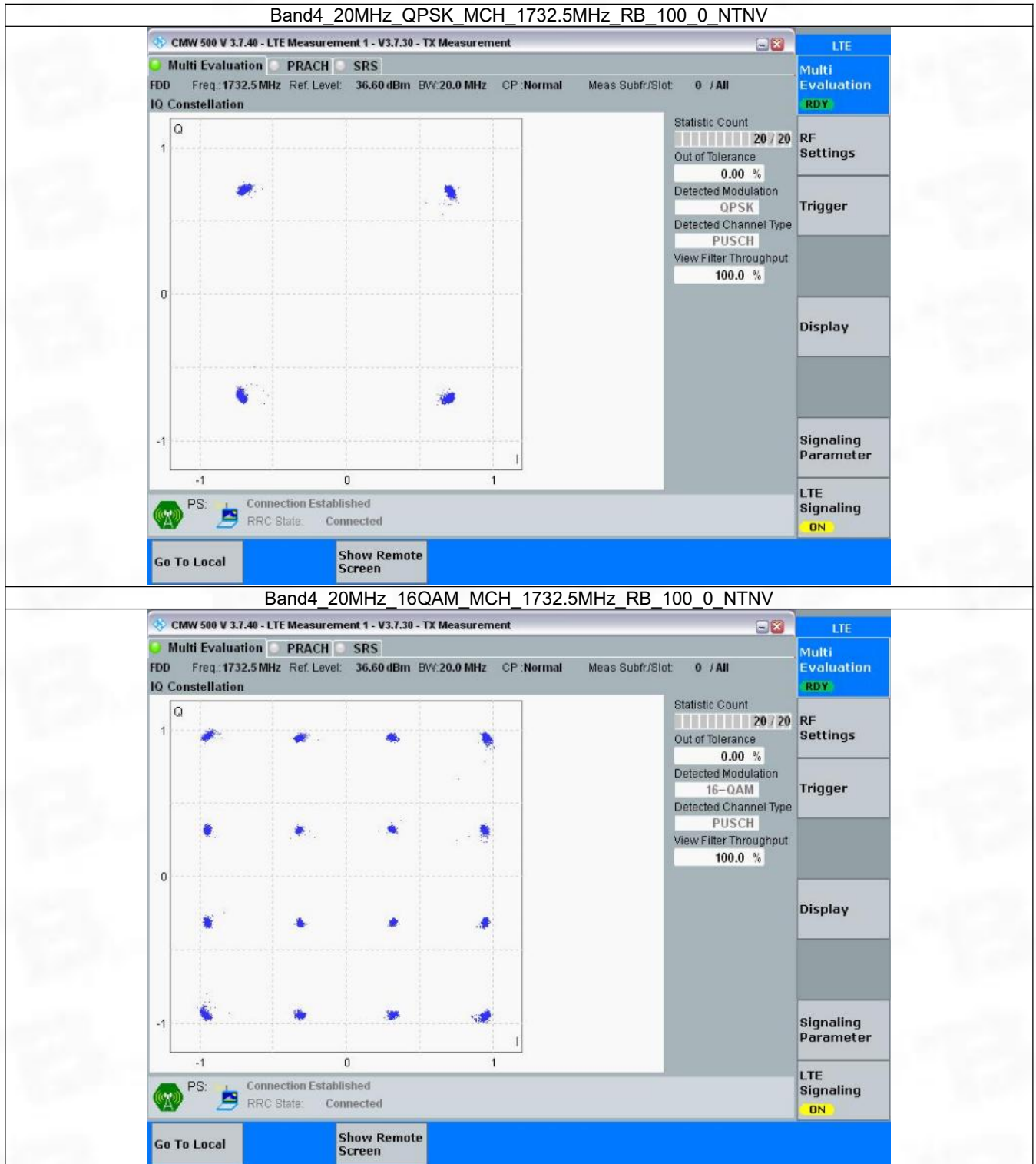
3.2.4 B4_10MHz



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	1.115	/	Pass
		1732.5	6	0	1.111	/	Pass
		1754.3	6	0	1.110	/	Pass
	16QAM	1710.7	6	0	1.111	/	Pass
		1732.5	6	0	1.109	/	Pass
		1754.3	6	0	1.116	/	Pass
3	QPSK	1711.5	15	0	2.729	/	Pass
		1732.5	15	0	2.732	/	Pass
		1753.5	15	0	2.723	/	Pass
	16QAM	1711.5	15	0	2.709	/	Pass
		1732.5	15	0	2.721	/	Pass
		1753.5	15	0	2.717	/	Pass
5	QPSK	1712.5	25	0	4.542	/	Pass
		1732.5	25	0	4.552	/	Pass
		1752.5	25	0	4.562	/	Pass
	16QAM	1712.5	25	0	4.540	/	Pass
		1732.5	25	0	4.558	/	Pass
		1752.5	25	0	4.539	/	Pass
10	QPSK	1715	50	0	9.093	/	Pass
		1732.5	50	0	9.062	/	Pass
		1750	50	0	9.051	/	Pass
	16QAM	1715	50	0	9.054	/	Pass
		1732.5	50	0	9.058	/	Pass
		1750	50	0	9.058	/	Pass
15	QPSK	1717.5	75	0	13.597	/	Pass
		1732.5	75	0	13.586	/	Pass
		1747.5	75	0	13.600	/	Pass
	16QAM	1717.5	75	0	13.593	/	Pass
		1732.5	75	0	13.617	/	Pass
		1747.5	75	0	13.616	/	Pass
20	QPSK	1720	100	0	18.104	/	Pass
		1732.5	100	0	18.136	/	Pass
		1745	100	0	18.099	/	Pass
	16QAM	1720	100	0	18.086	/	Pass
		1732.5	100	0	18.132	/	Pass
		1745	100	0	18.126	/	Pass

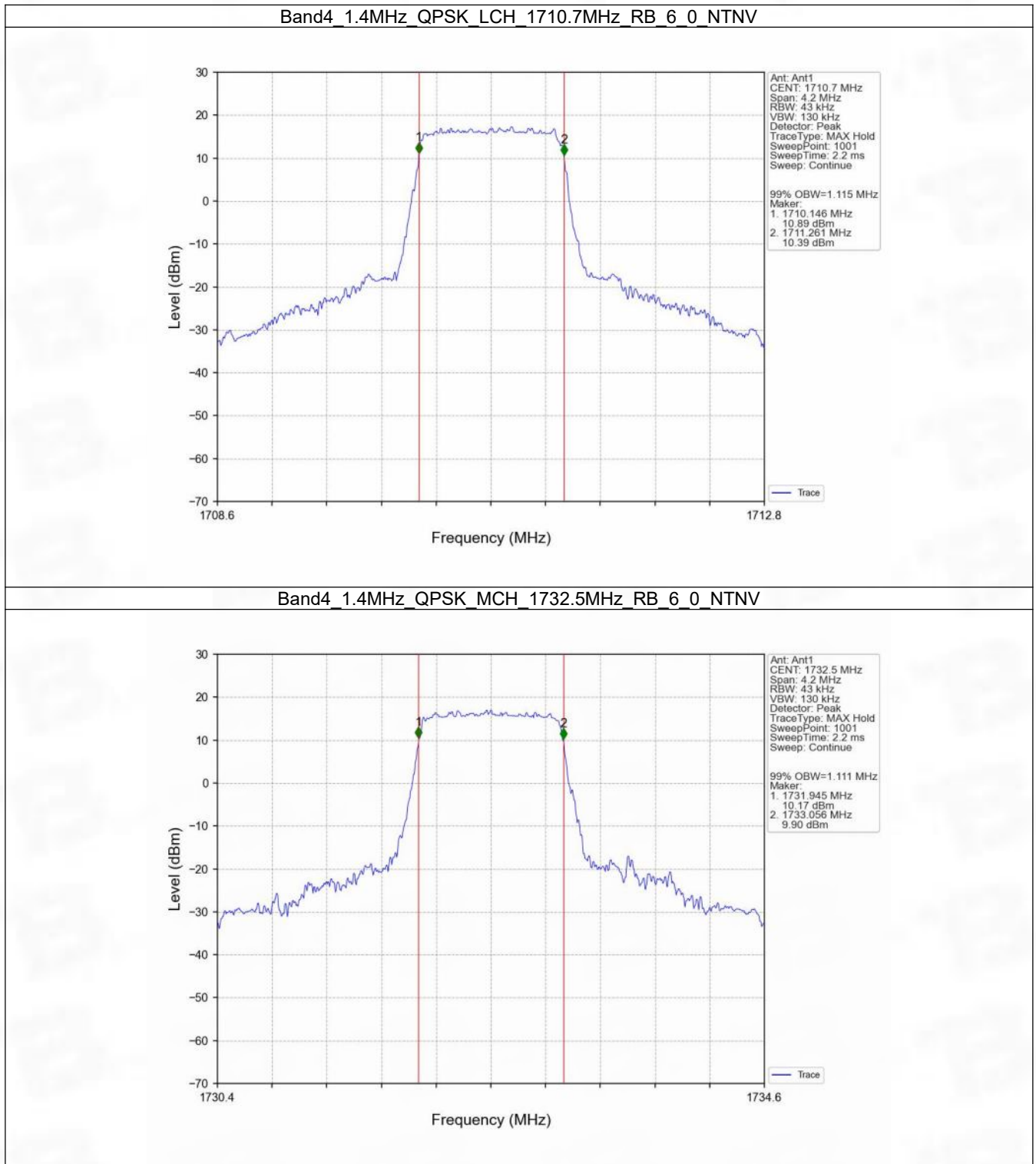
4.1.2 Band4_XDB

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	1.319	/	Pass
		1732.5	6	0	1.336	/	Pass
		1754.3	6	0	1.329	/	Pass

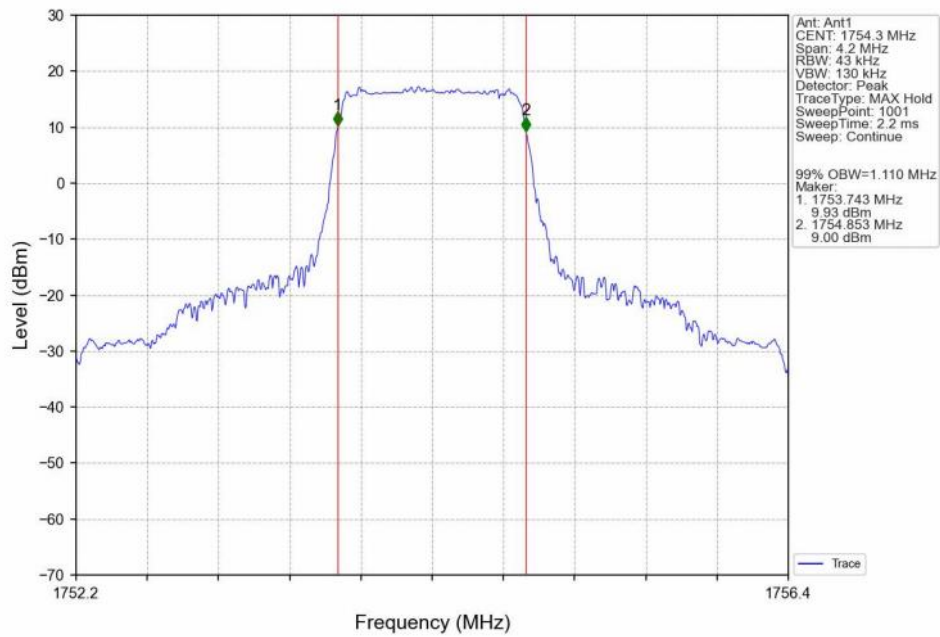
	16QAM	1710.7	6	0	1.328	/	Pass
		1732.5	6	0	1.309	/	Pass
		1754.3	6	0	1.311	/	Pass
3	QPSK	1711.5	15	0	2.983	/	Pass
		1732.5	15	0	2.985	/	Pass
		1753.5	15	0	2.991	/	Pass
	16QAM	1711.5	15	0	2.993	/	Pass
		1732.5	15	0	2.997	/	Pass
		1753.5	15	0	2.976	/	Pass
5	QPSK	1712.5	25	0	5.016	/	Pass
		1732.5	25	0	5.018	/	Pass
		1752.5	25	0	5.561	/	Pass
	16QAM	1712.5	25	0	5.045	/	Pass
		1732.5	25	0	4.995	/	Pass
		1752.5	25	0	5.053	/	Pass
10	QPSK	1715	50	0	9.931	/	Pass
		1732.5	50	0	9.928	/	Pass
		1750	50	0	9.985	/	Pass
	16QAM	1715	50	0	9.901	/	Pass
		1732.5	50	0	9.948	/	Pass
		1750	50	0	9.913	/	Pass
15	QPSK	1717.5	75	0	14.924	/	Pass
		1732.5	75	0	14.946	/	Pass
		1747.5	75	0	15.039	/	Pass
	16QAM	1717.5	75	0	14.826	/	Pass
		1732.5	75	0	14.965	/	Pass
		1747.5	75	0	14.965	/	Pass
20	QPSK	1720	100	0	19.858	/	Pass
		1732.5	100	0	19.701	/	Pass
		1745	100	0	19.694	/	Pass
	16QAM	1720	100	0	19.856	/	Pass
		1732.5	100	0	19.643	/	Pass
		1745	100	0	19.686	/	Pass

4.2 Test Graph

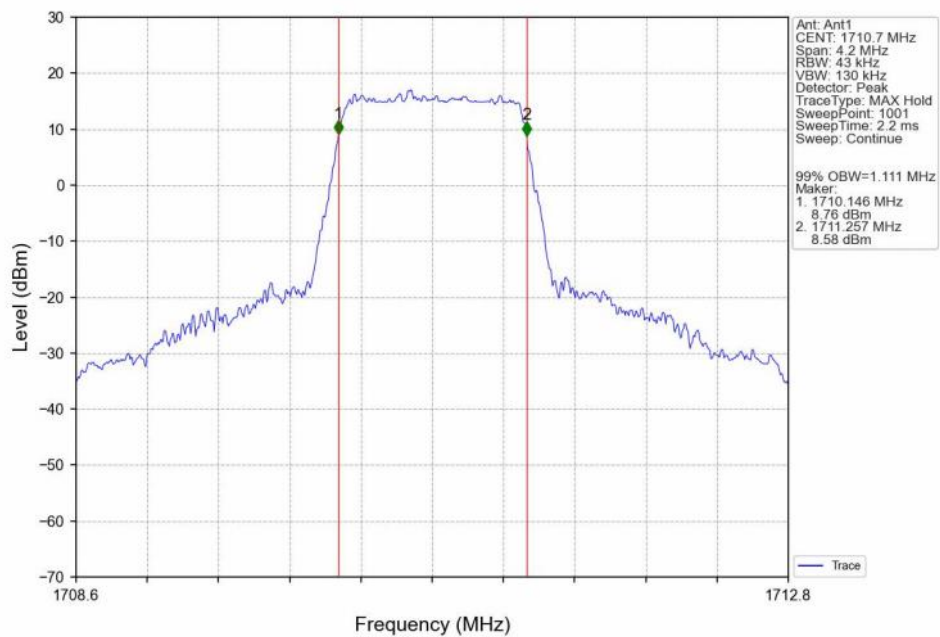
4.2.1 Band4_OBW



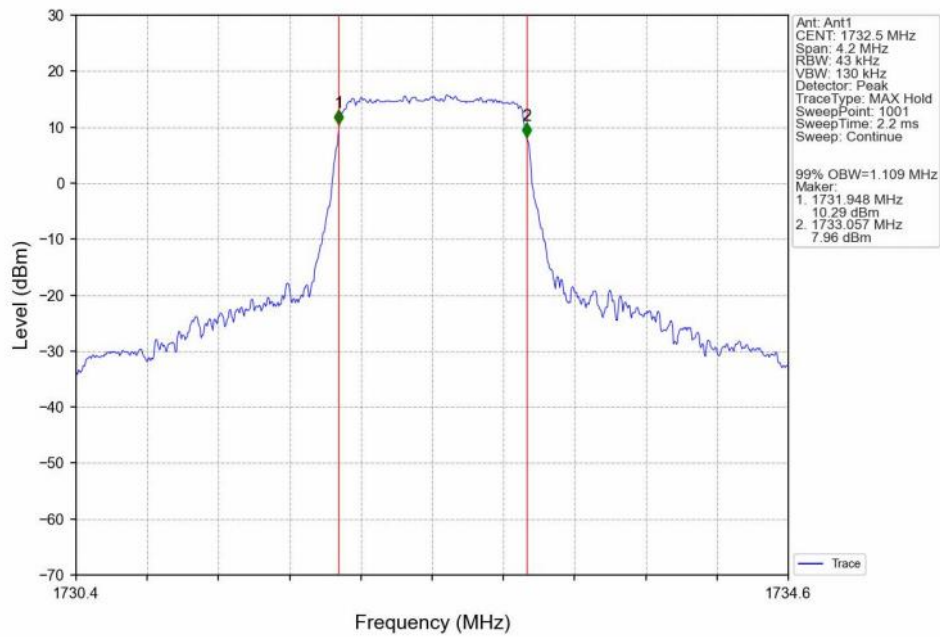
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



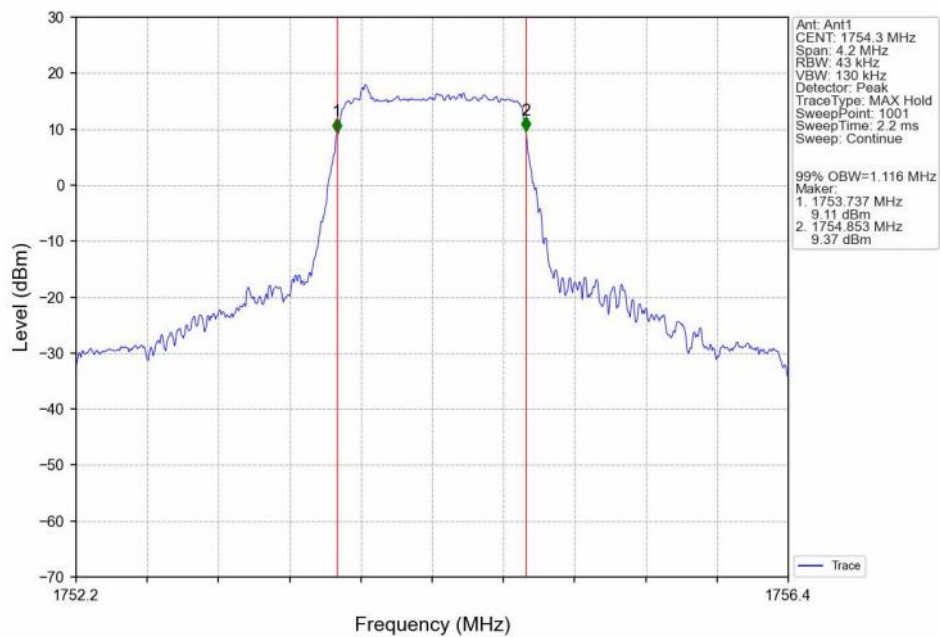
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



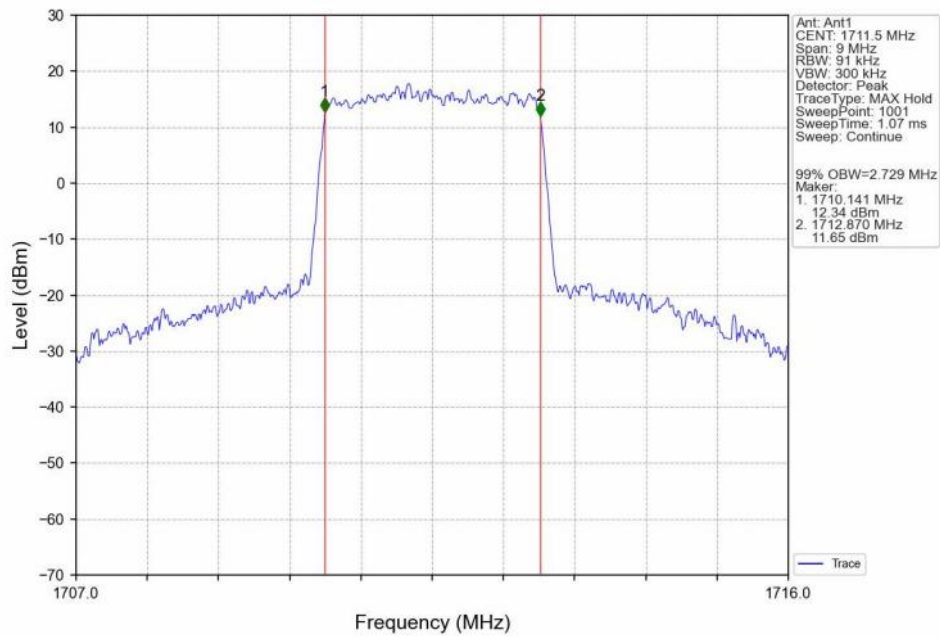
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



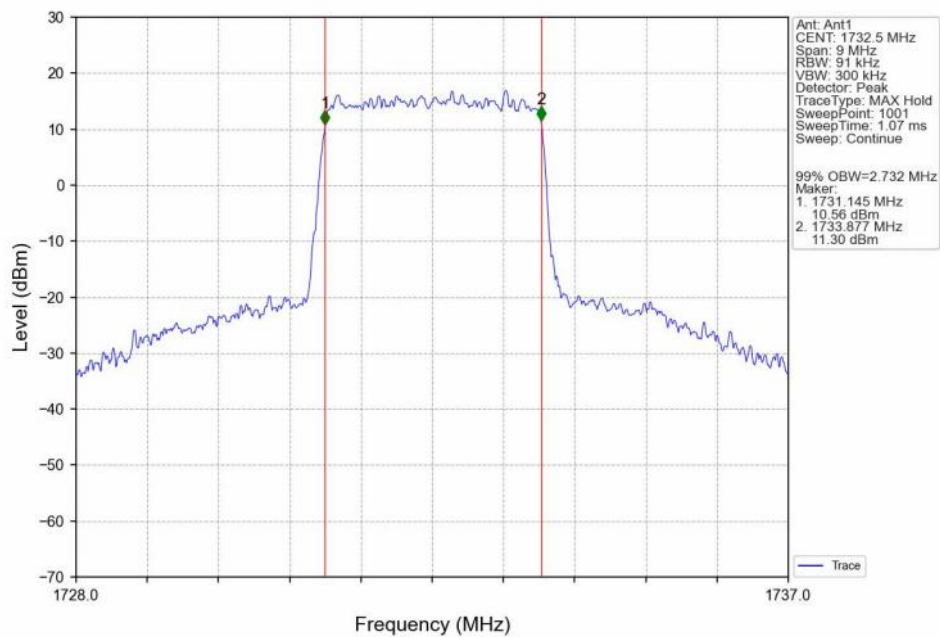
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



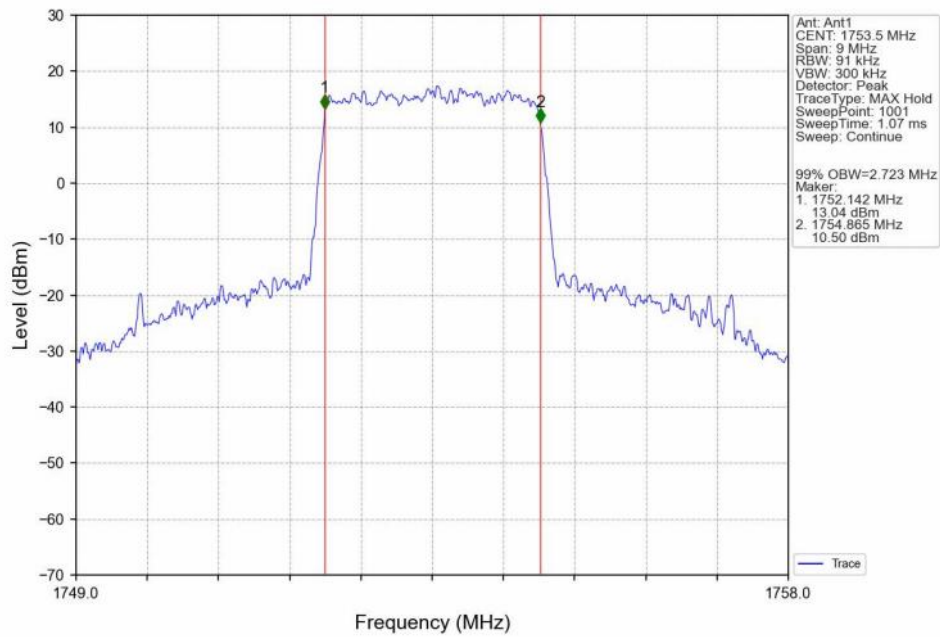
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



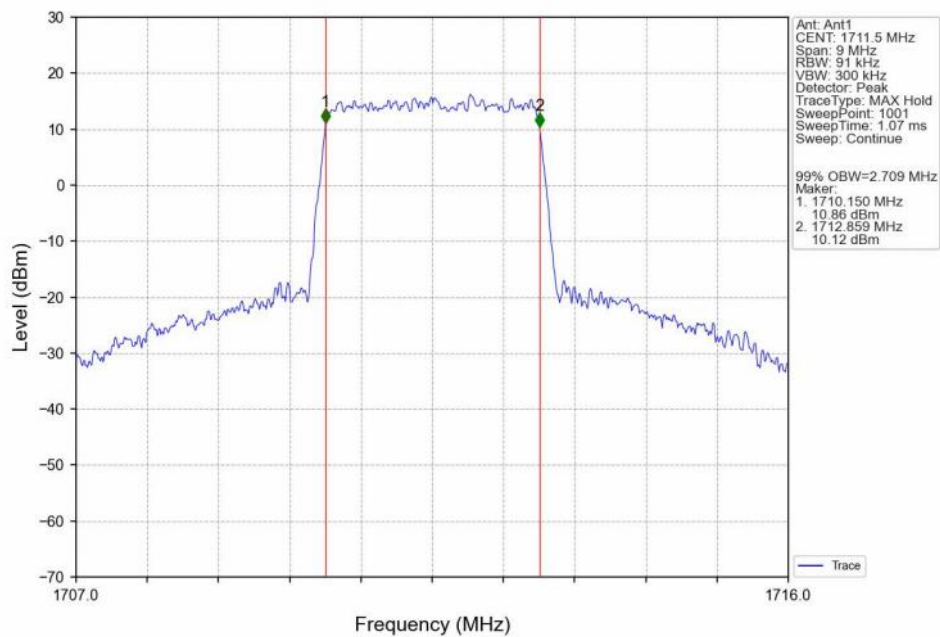
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



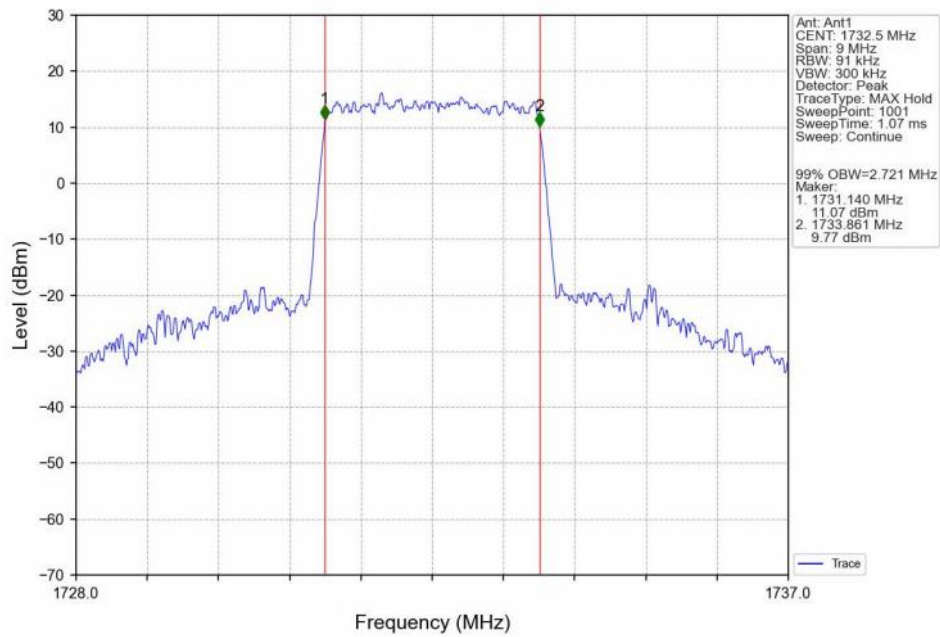
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



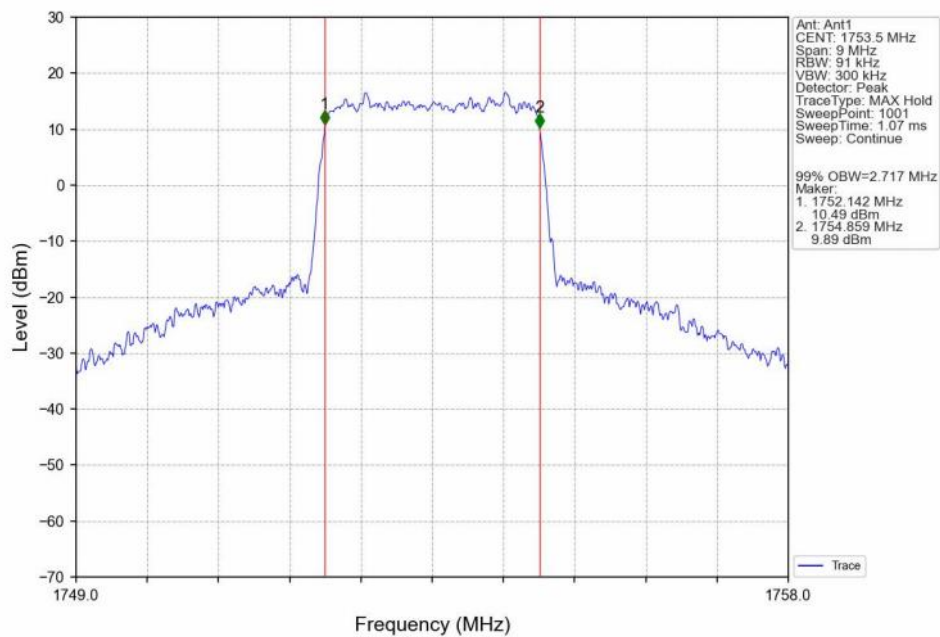
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



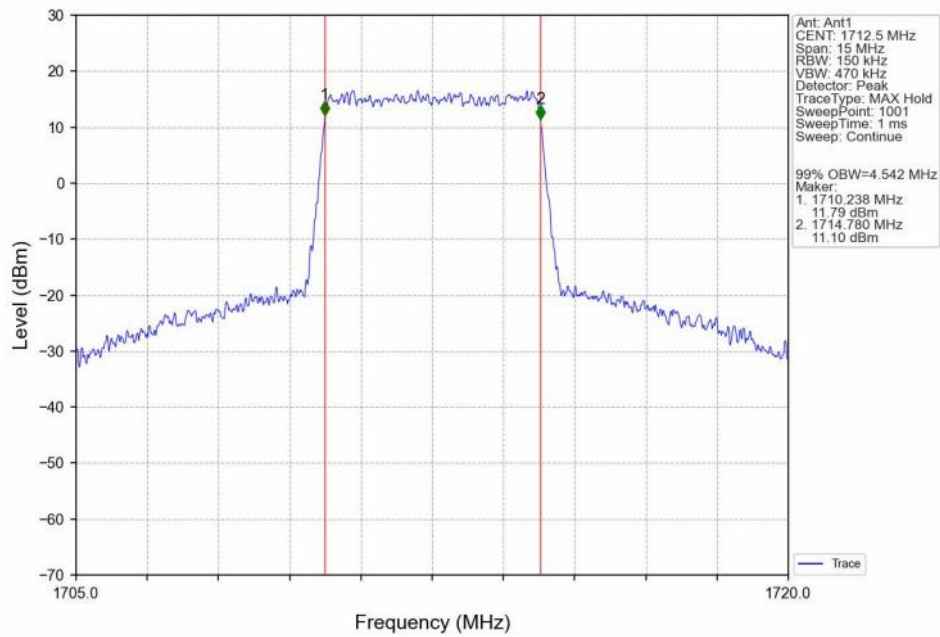
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



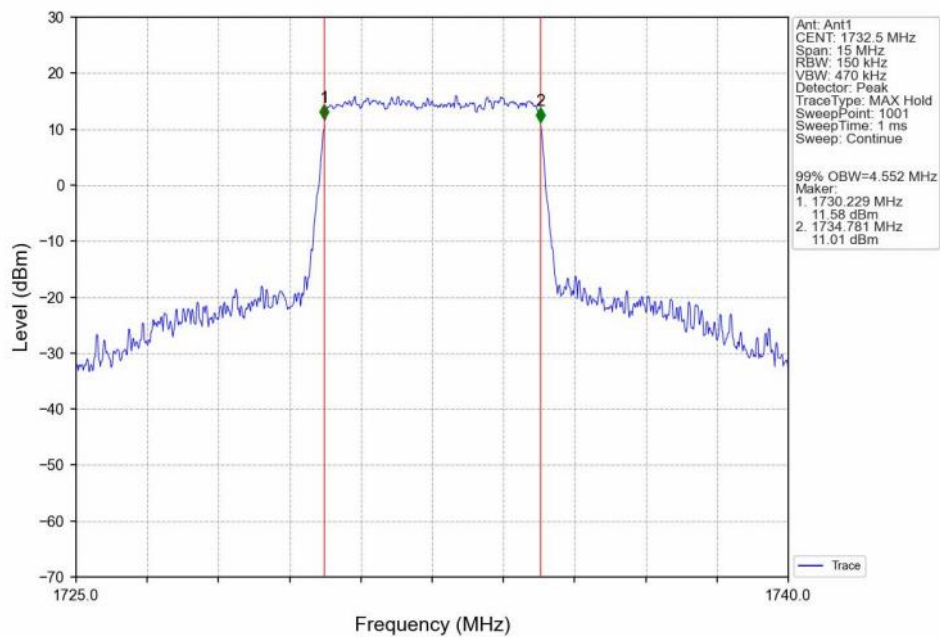
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



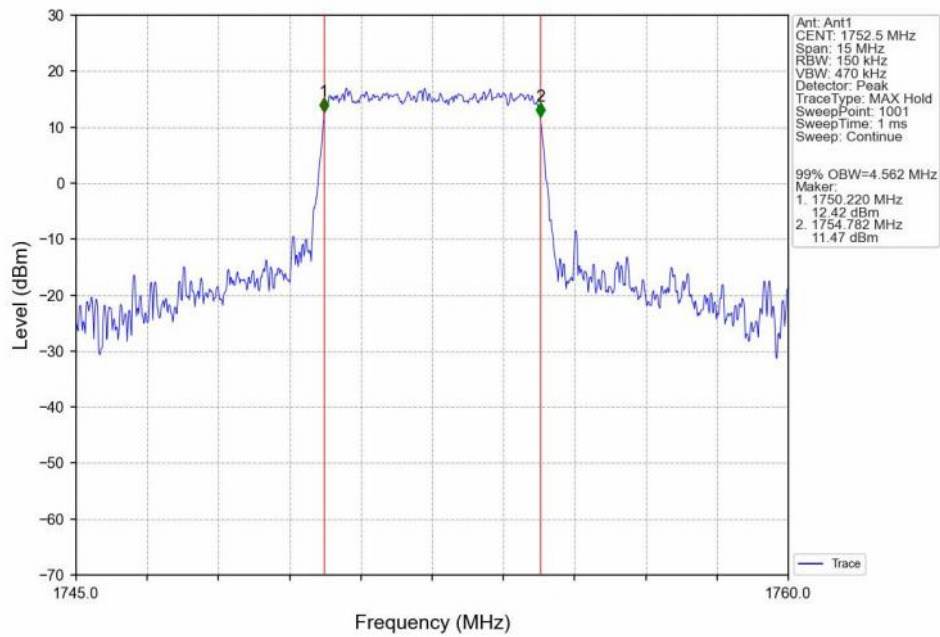
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



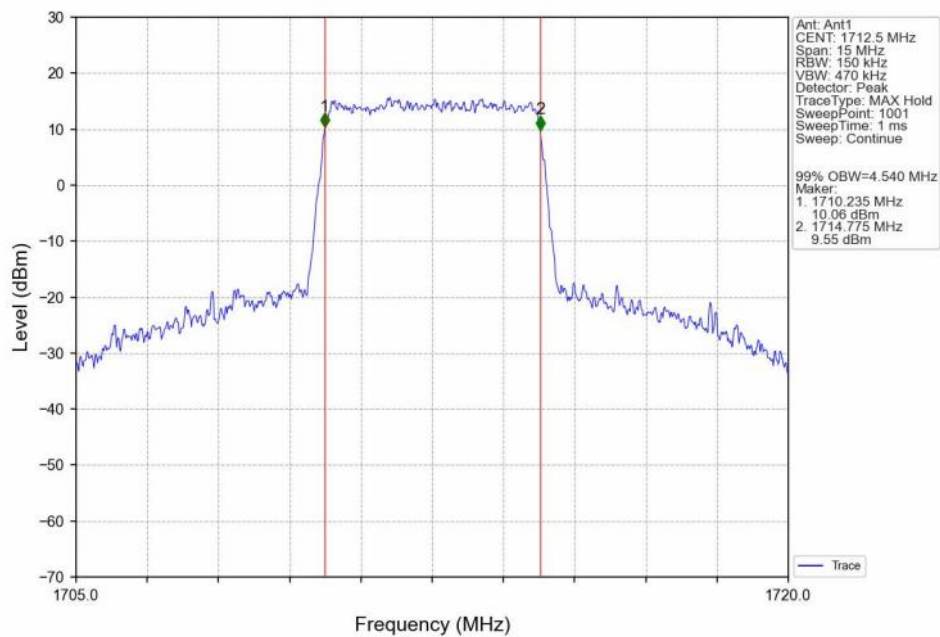
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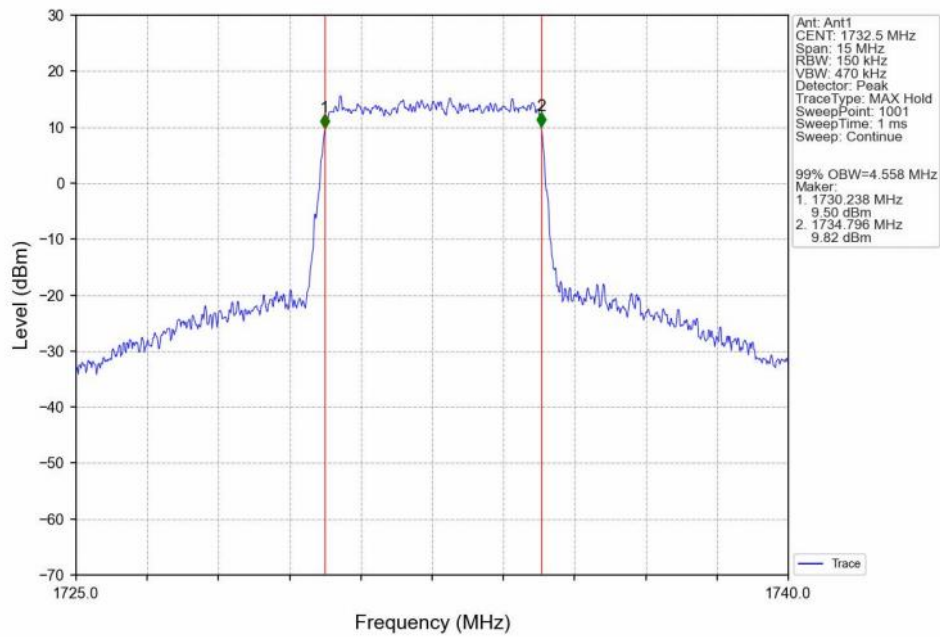
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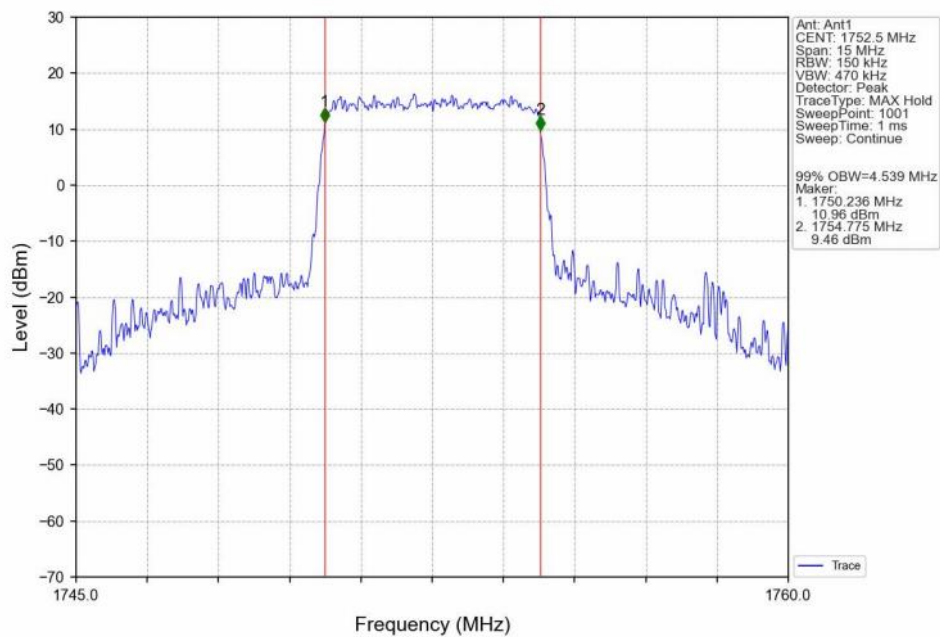
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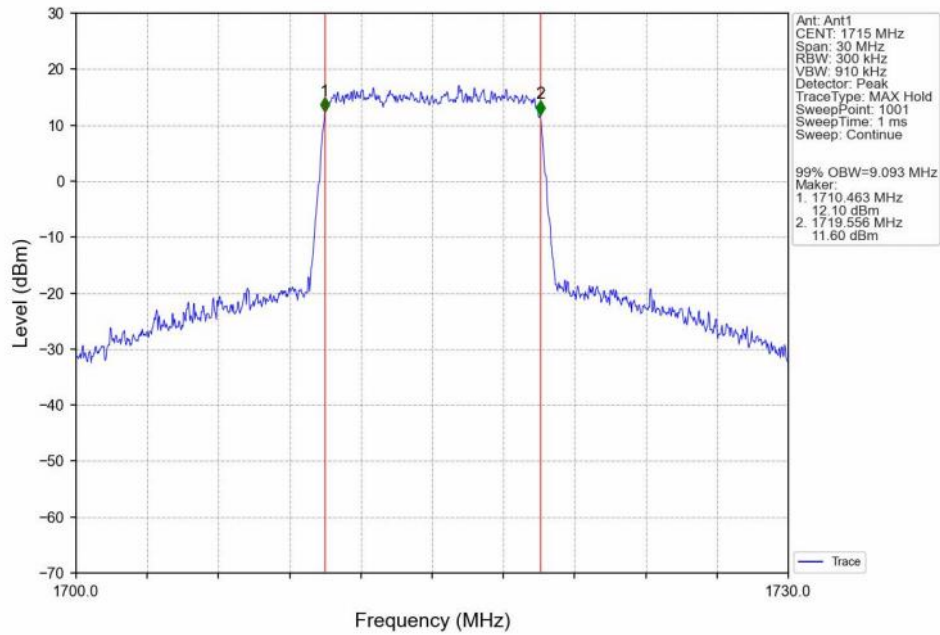
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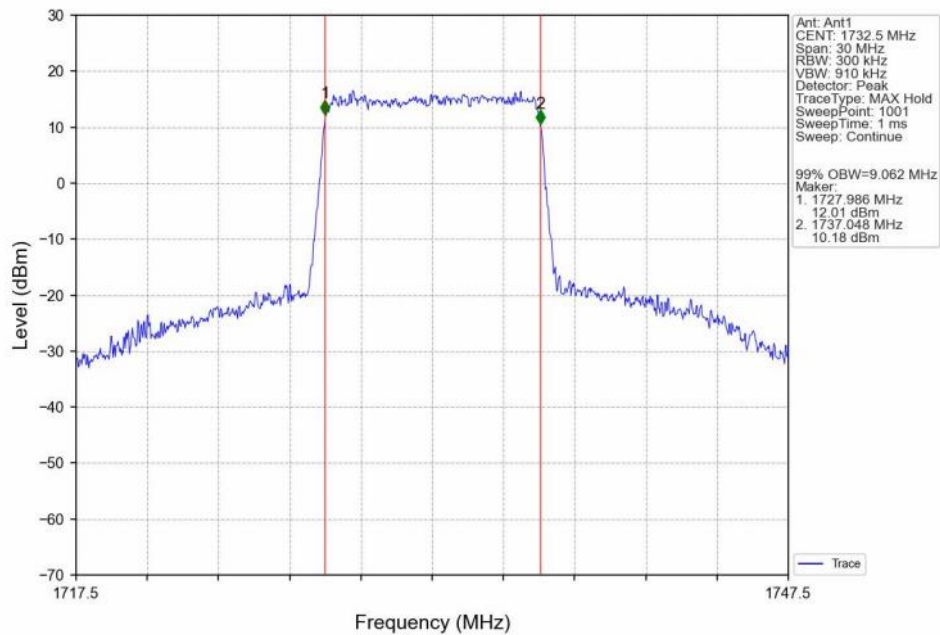
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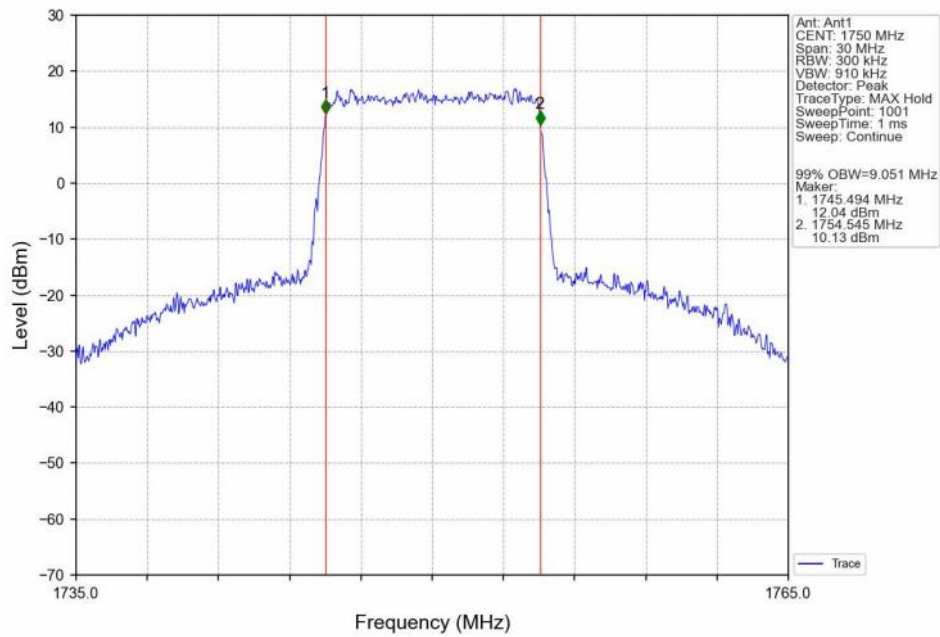
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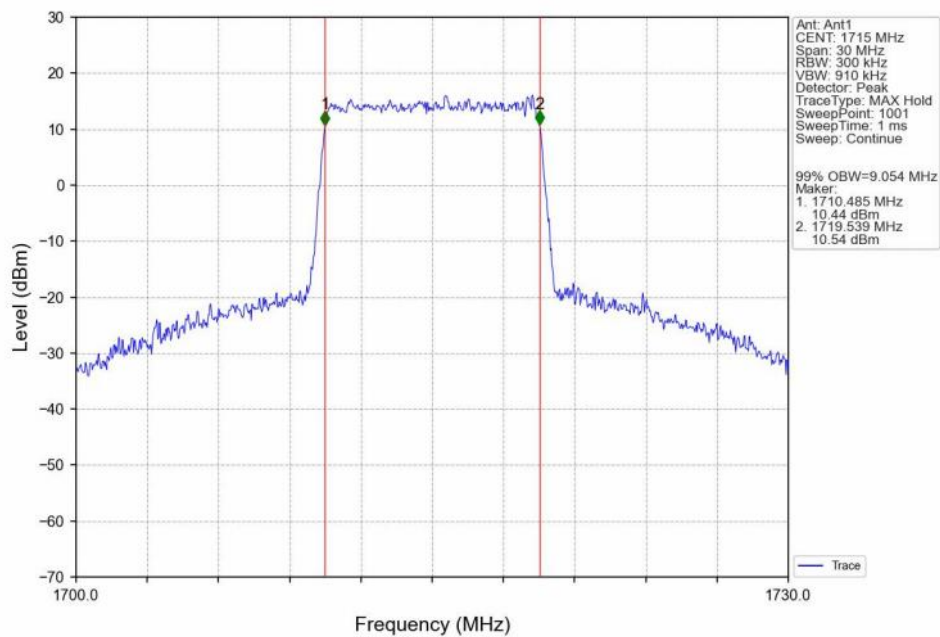
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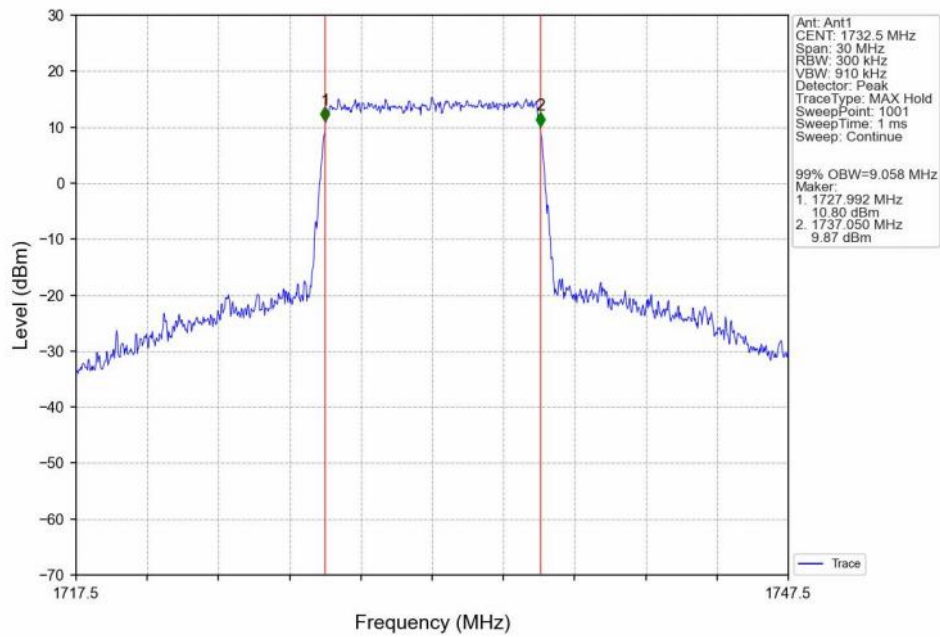
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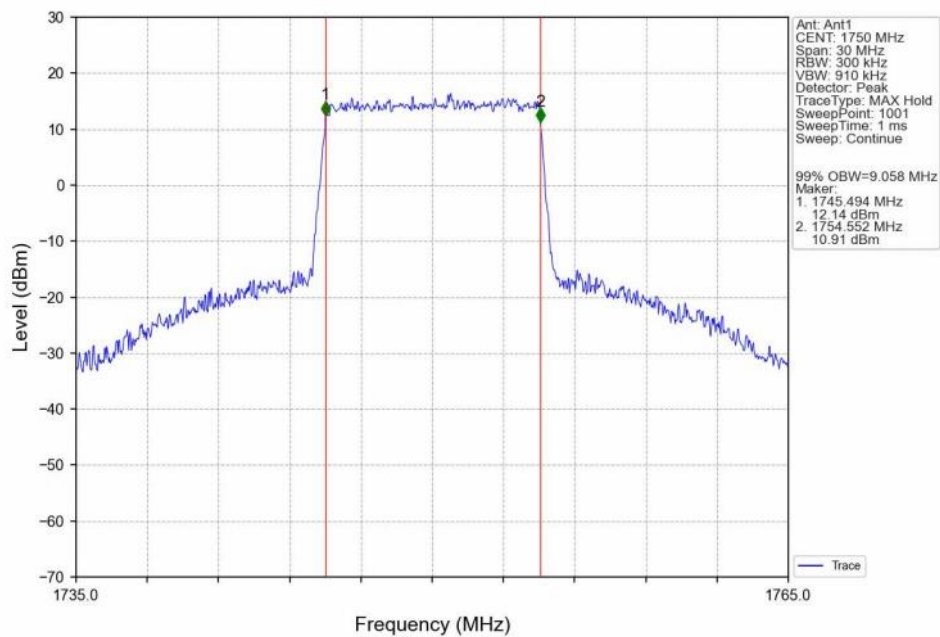
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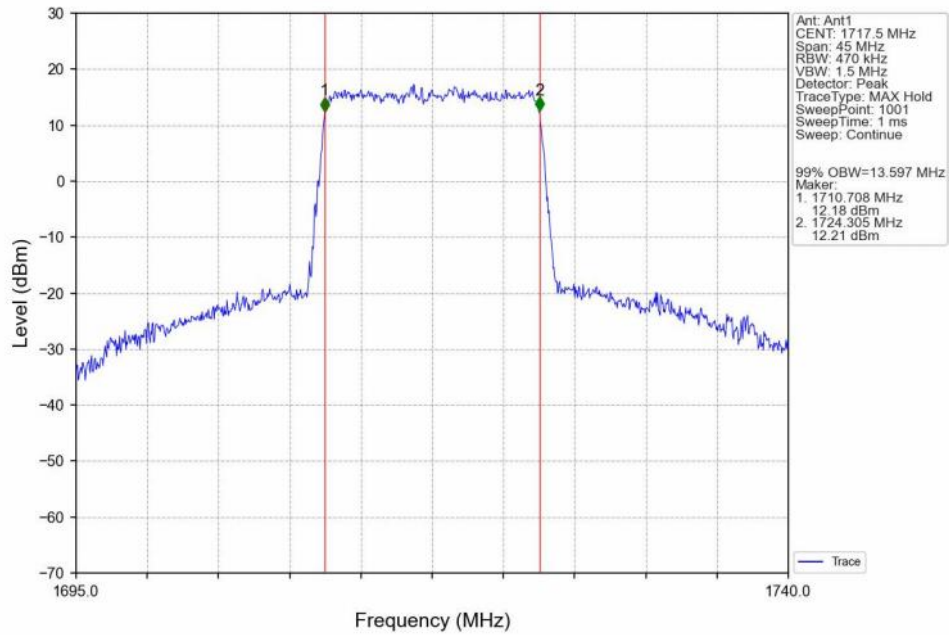
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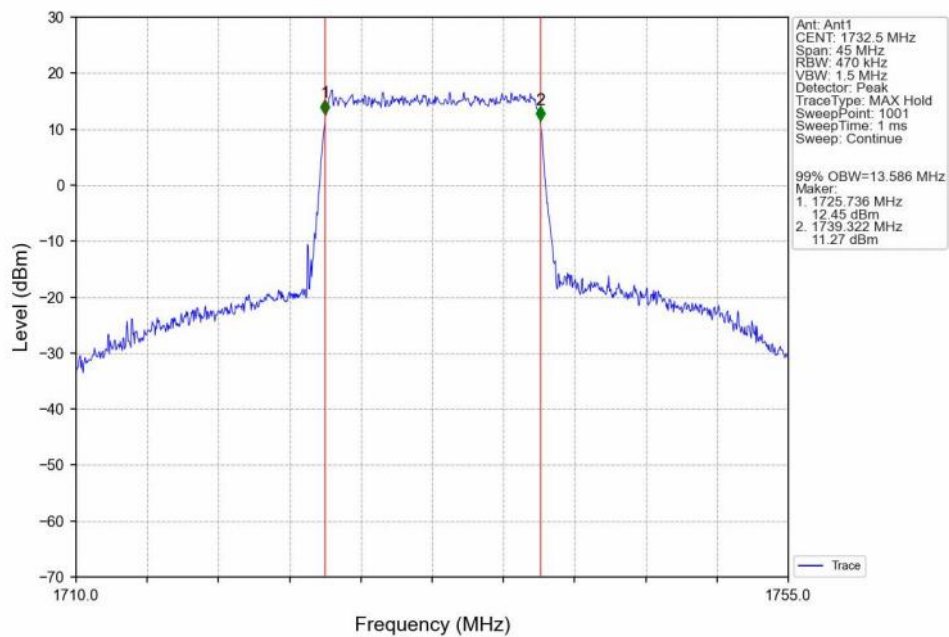
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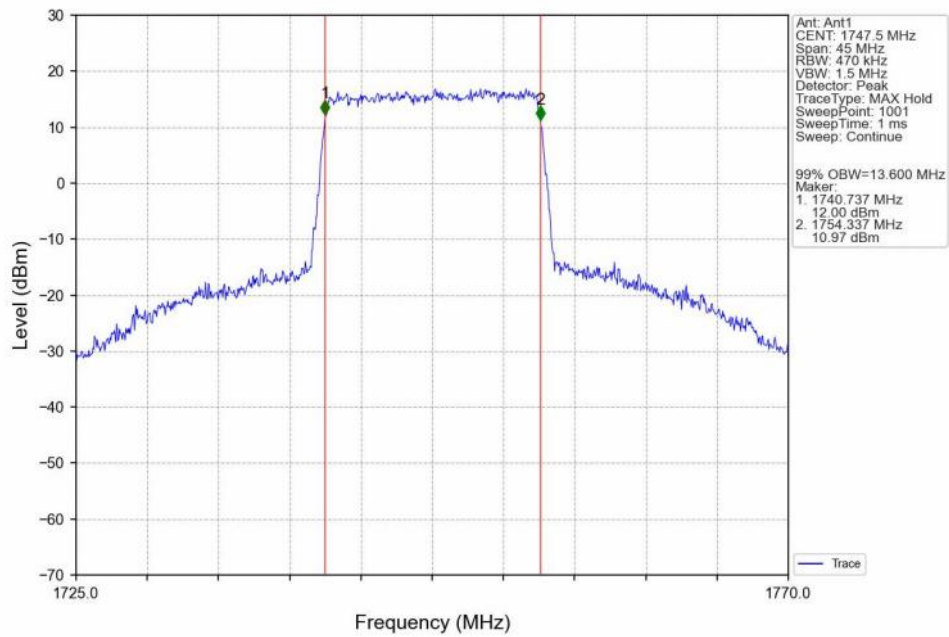
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



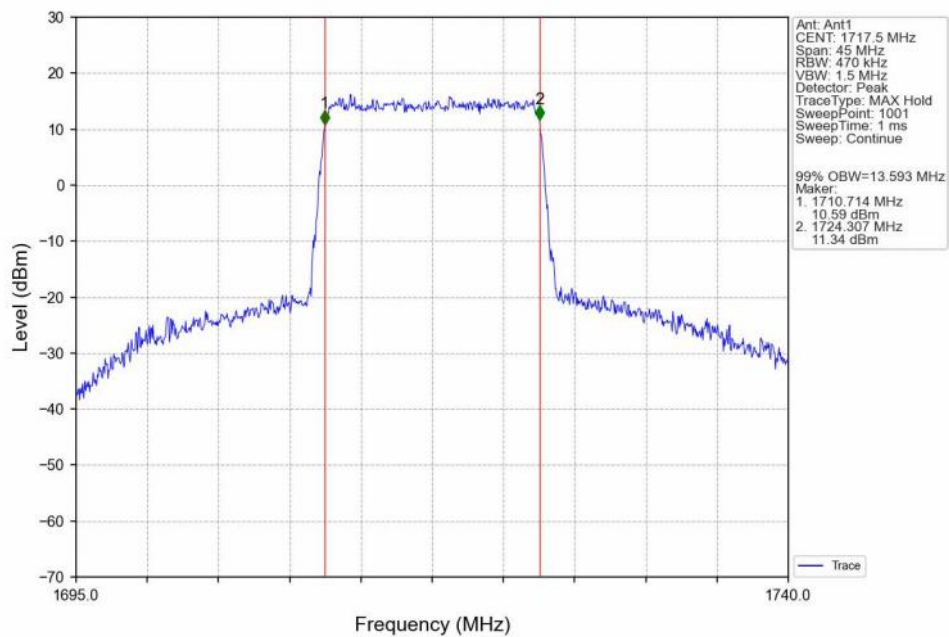
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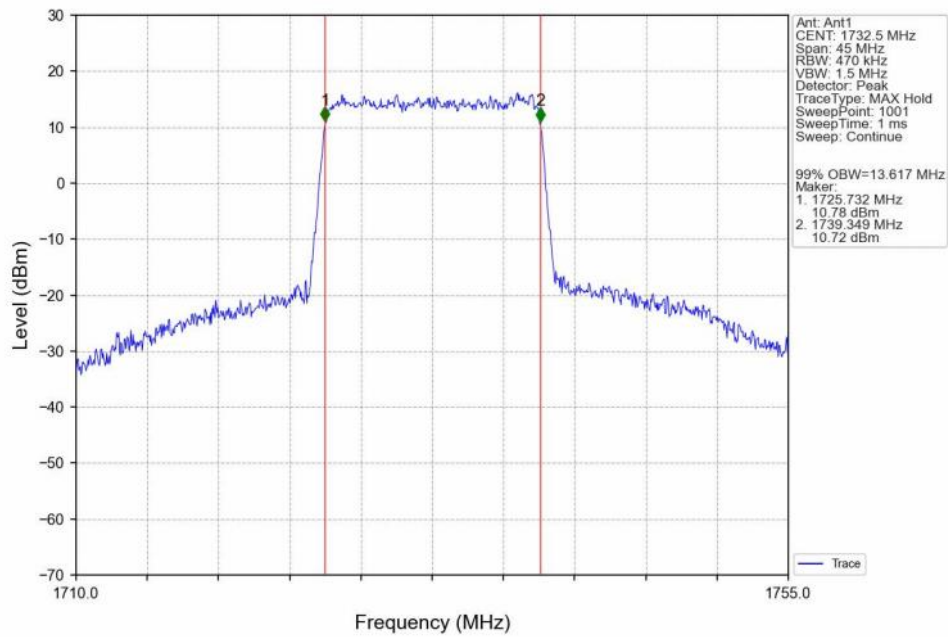
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



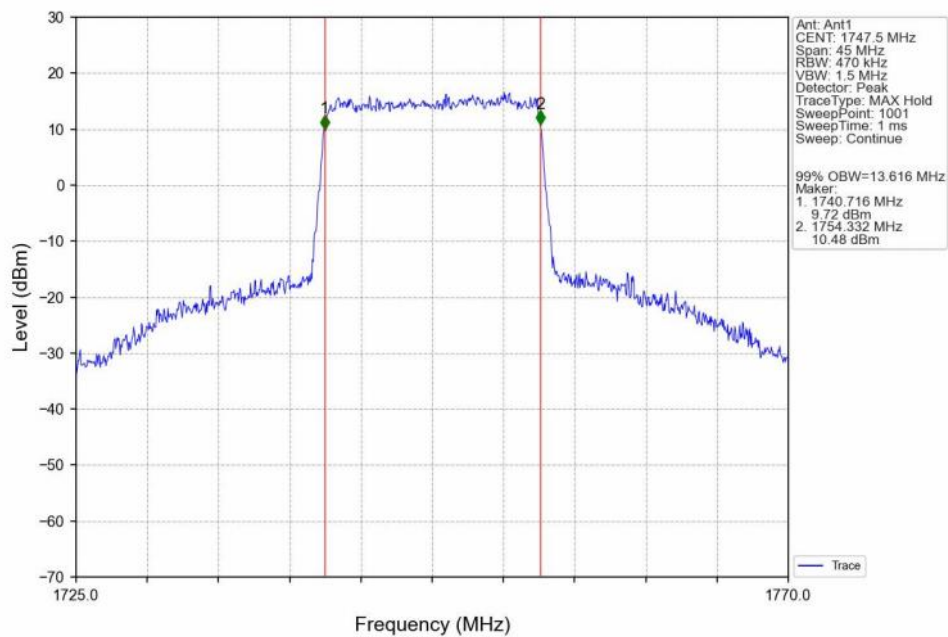
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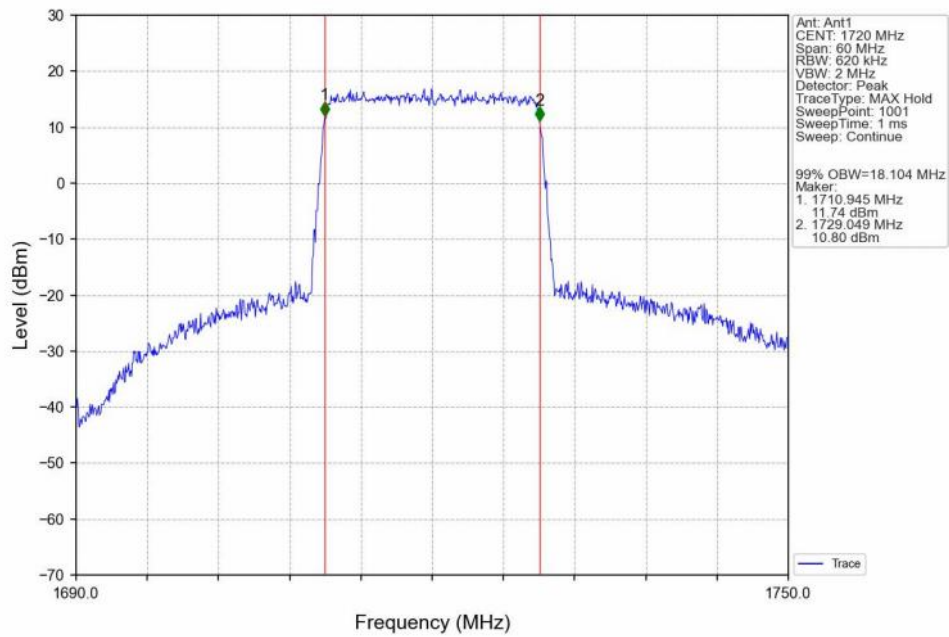
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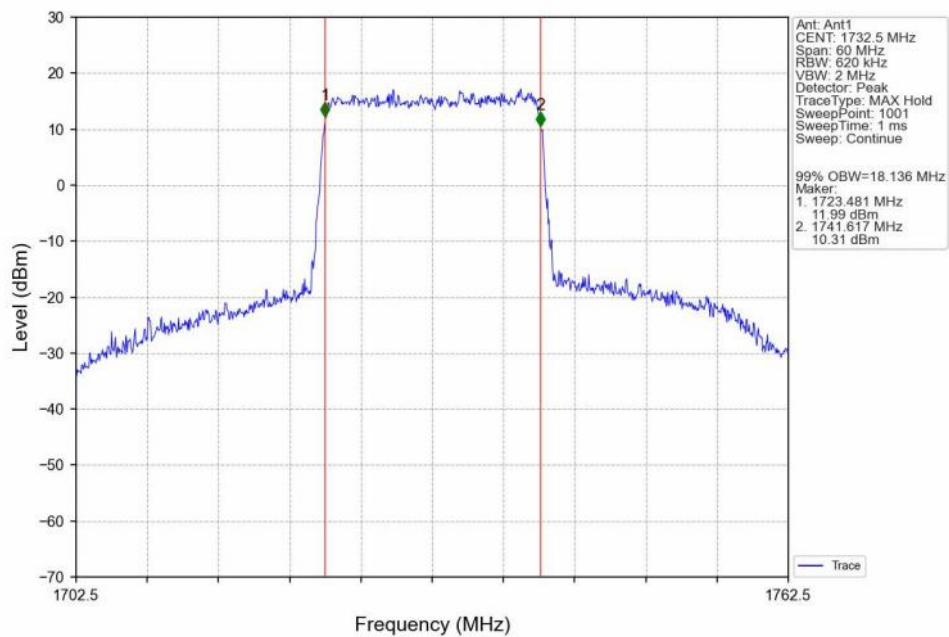
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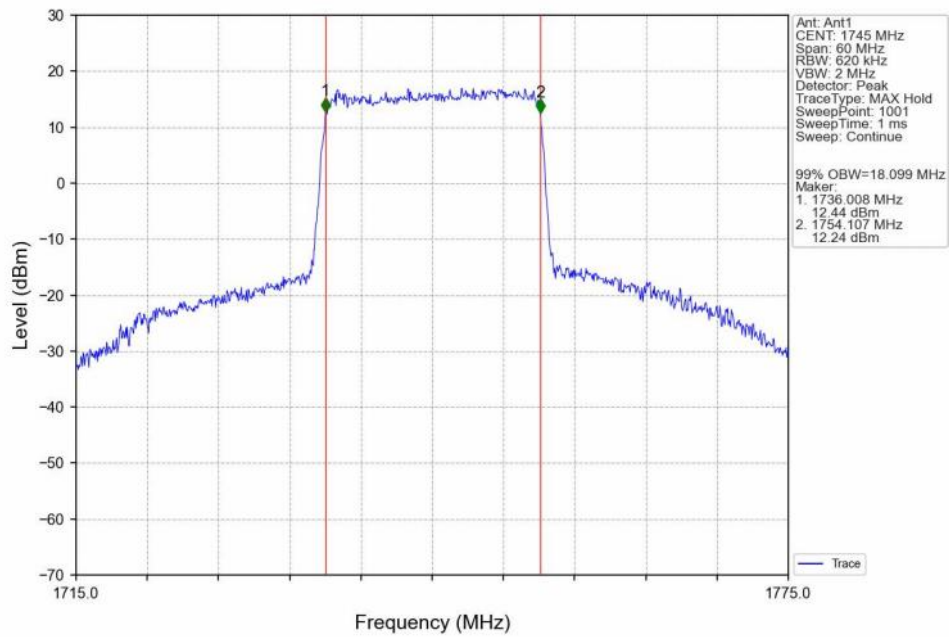
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



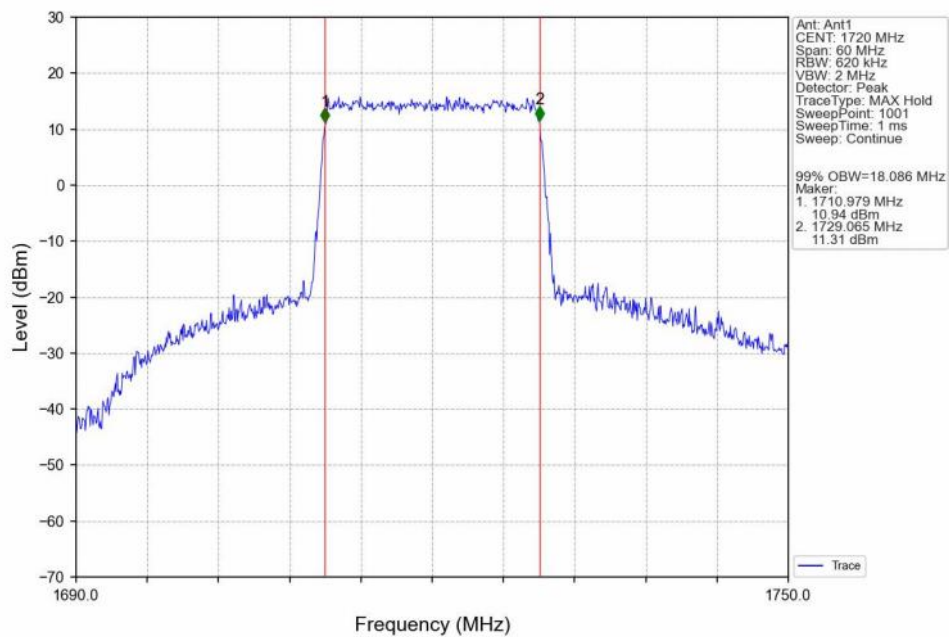
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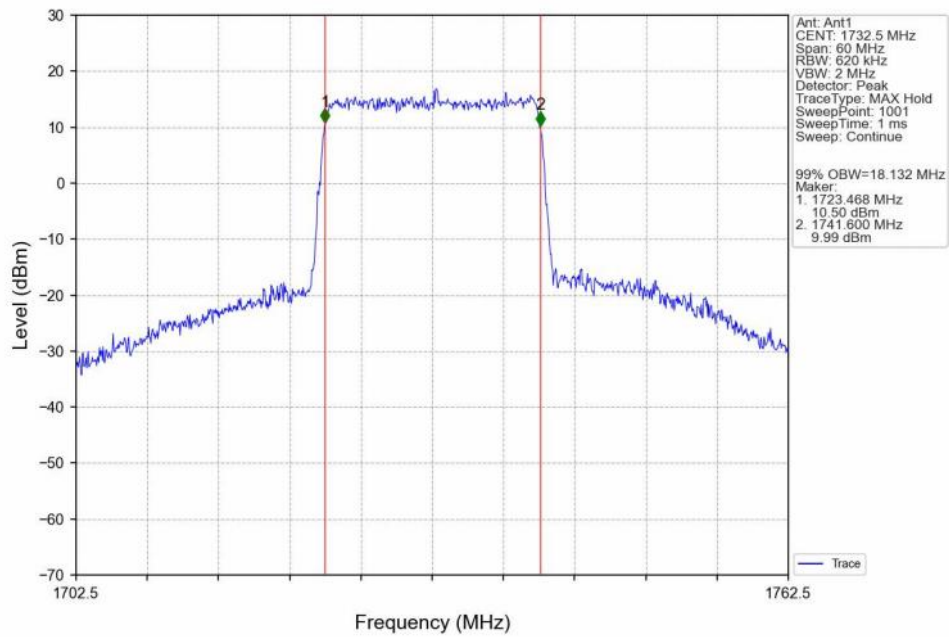
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



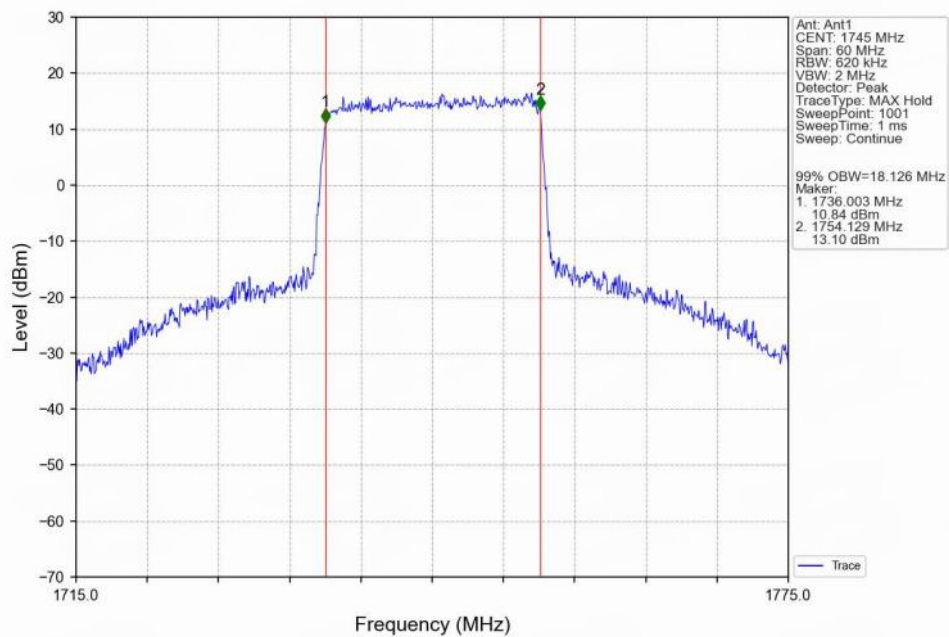
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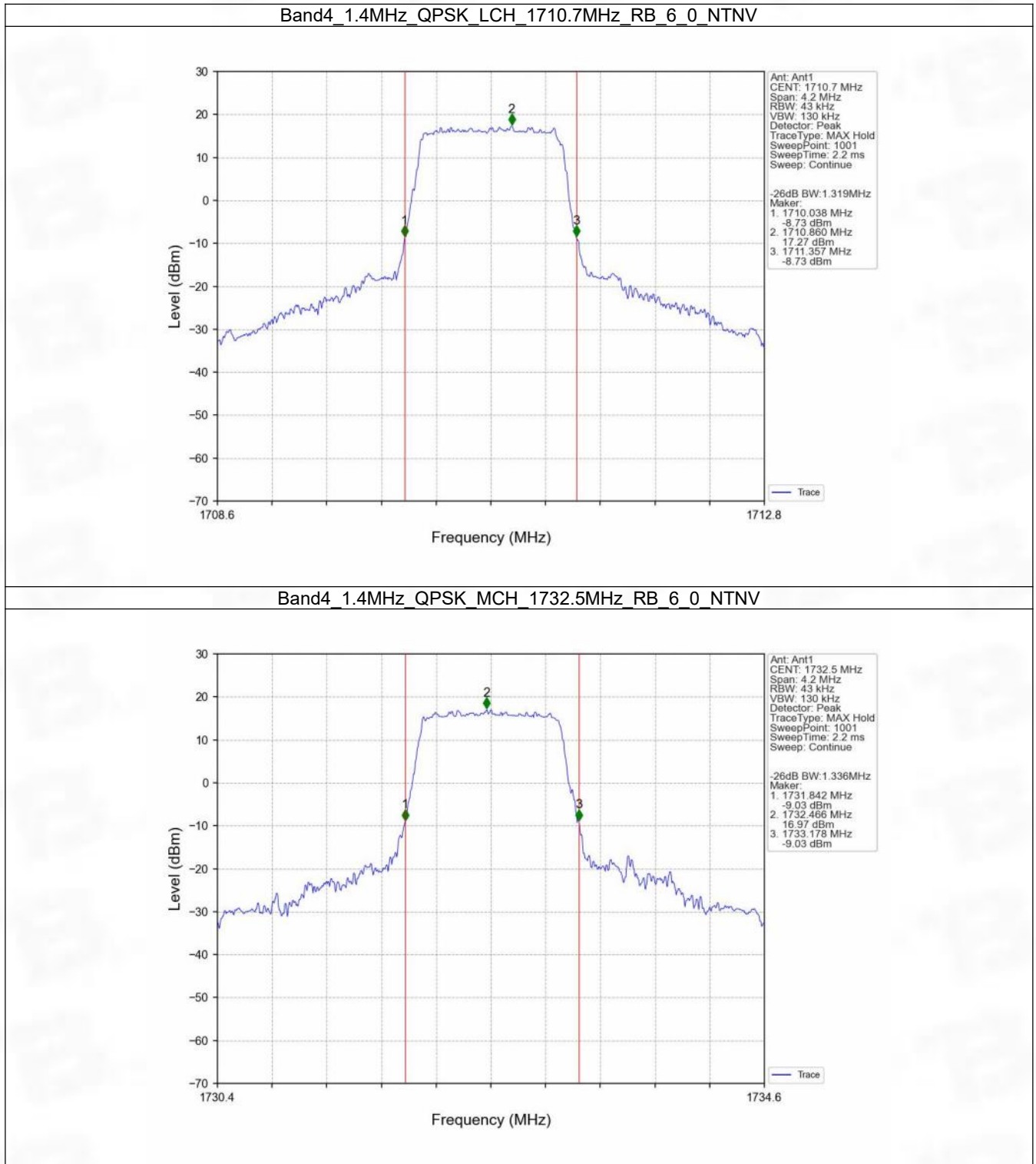
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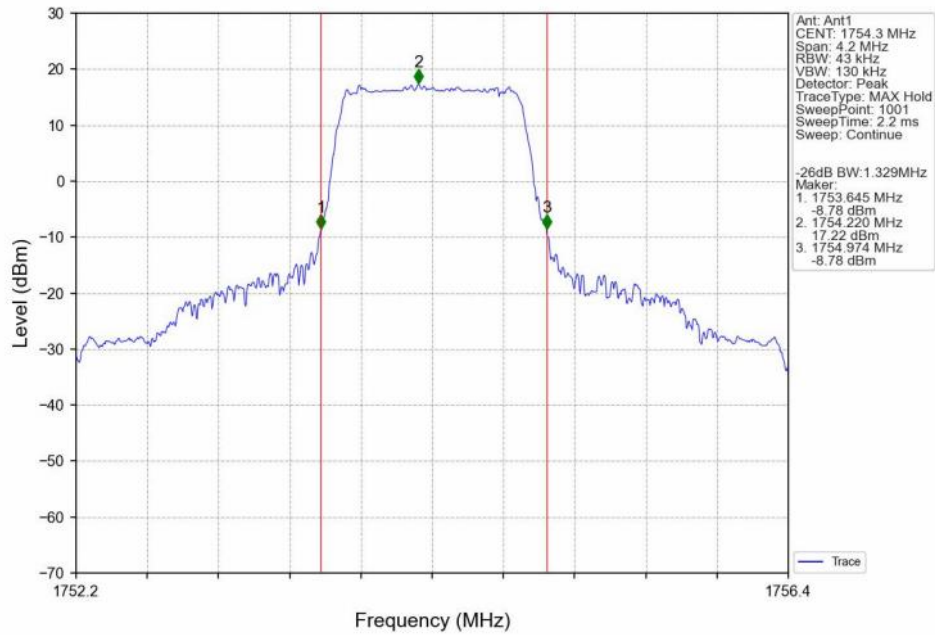
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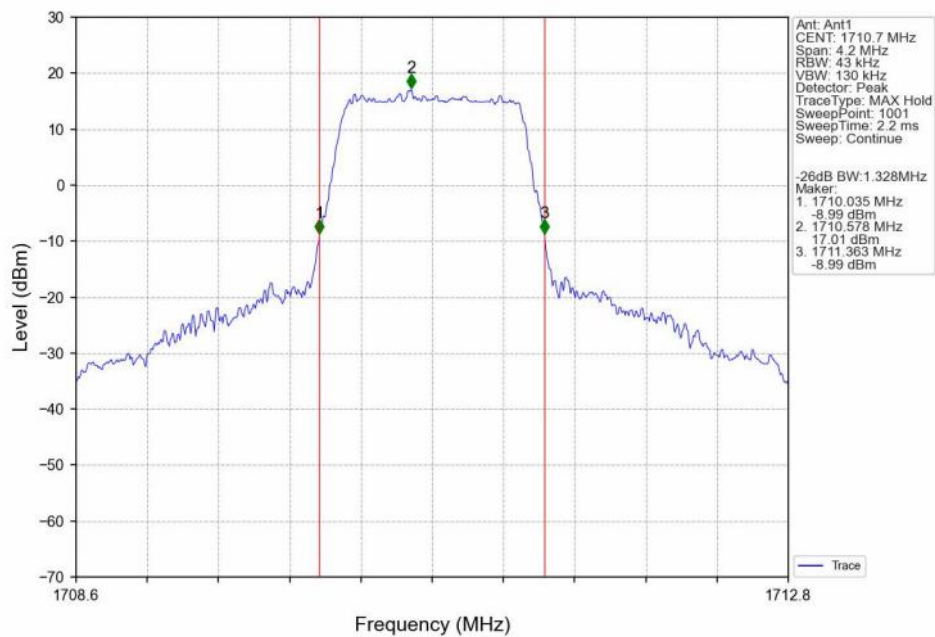
4.2.2 Band4_XDB



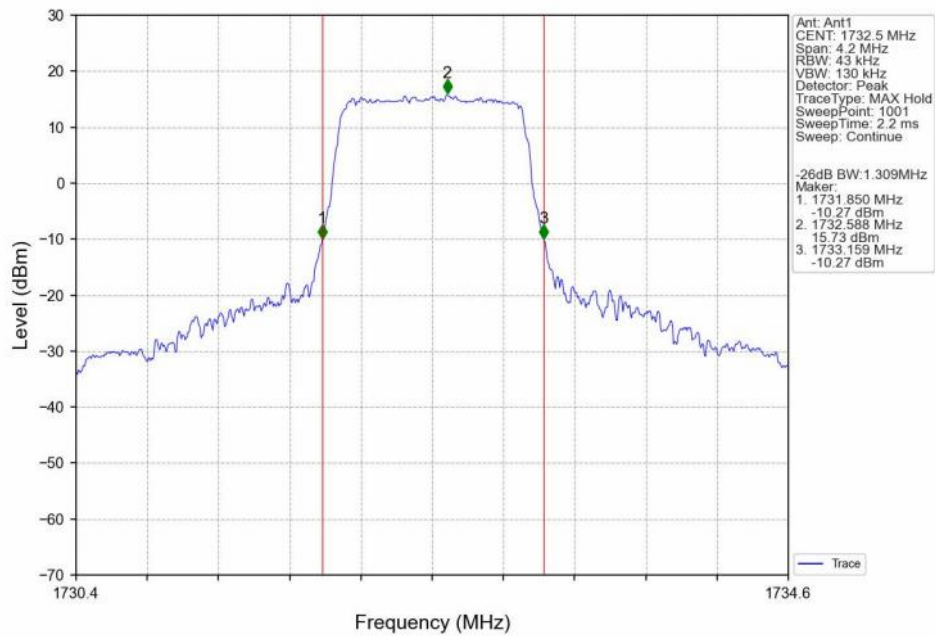
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



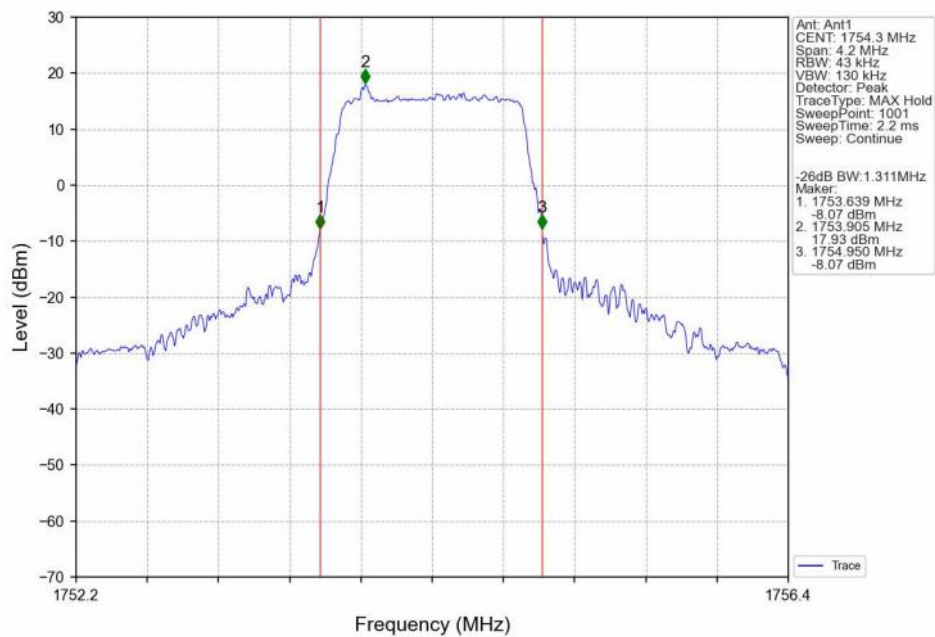
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



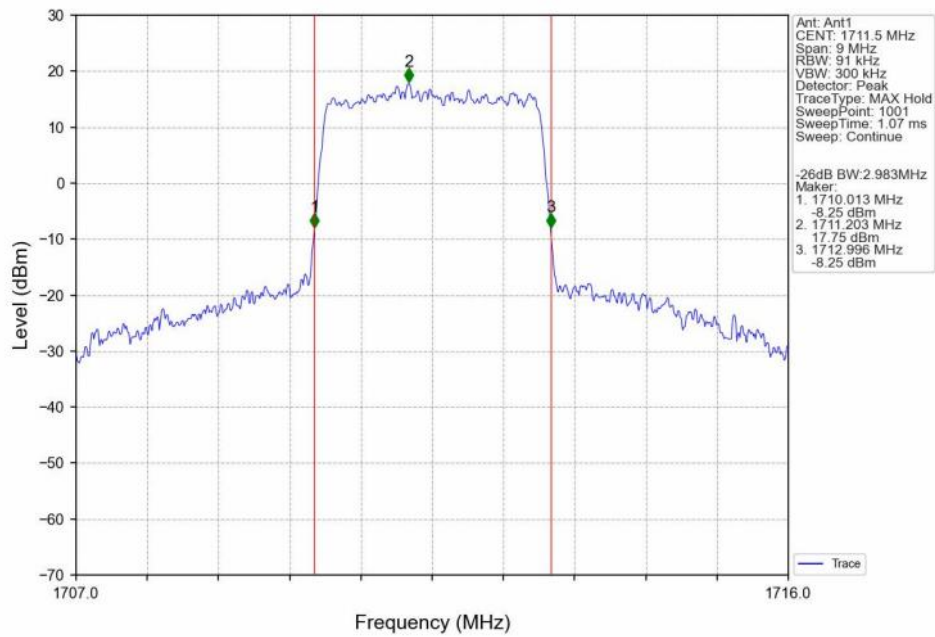
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



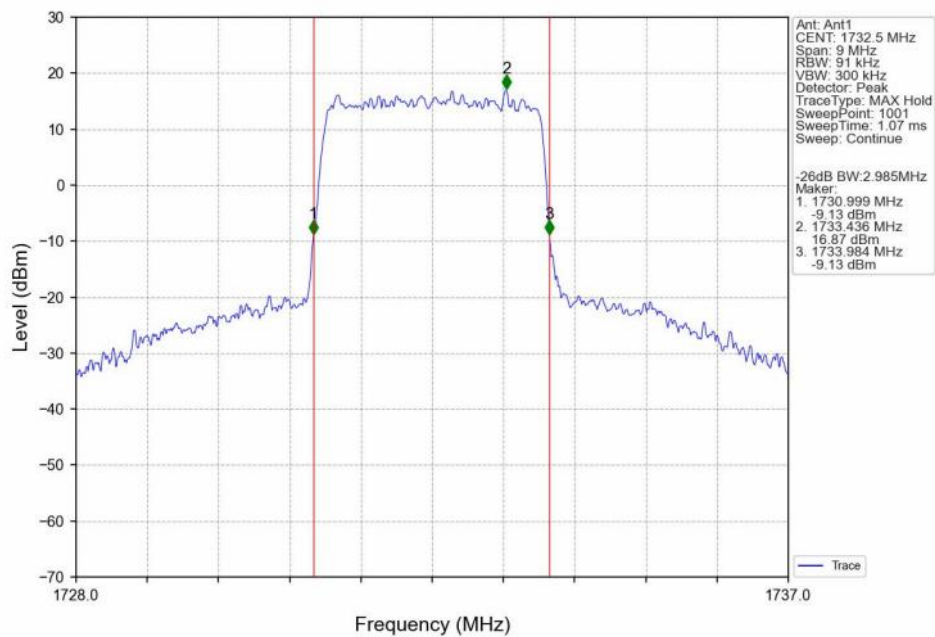
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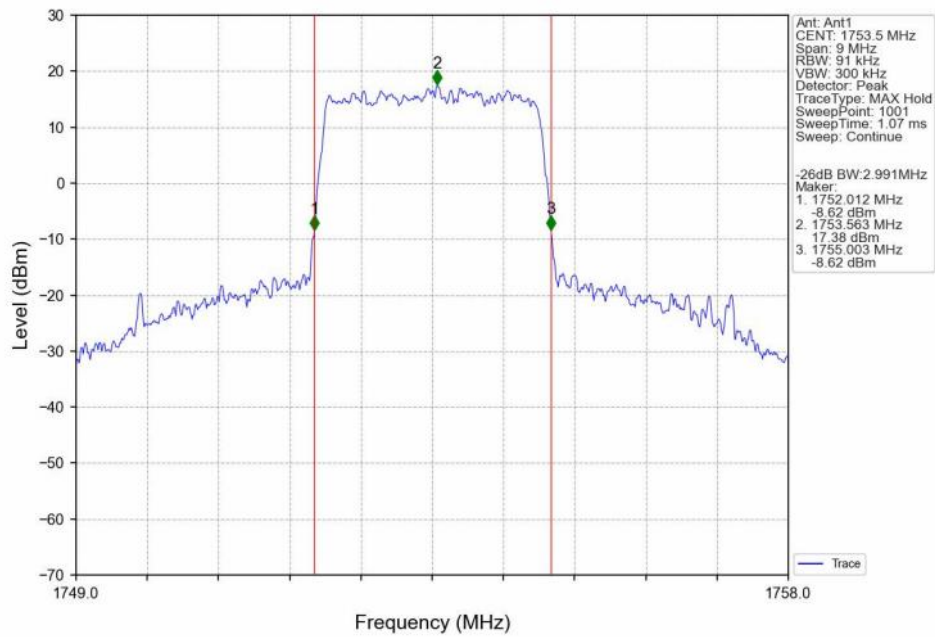
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



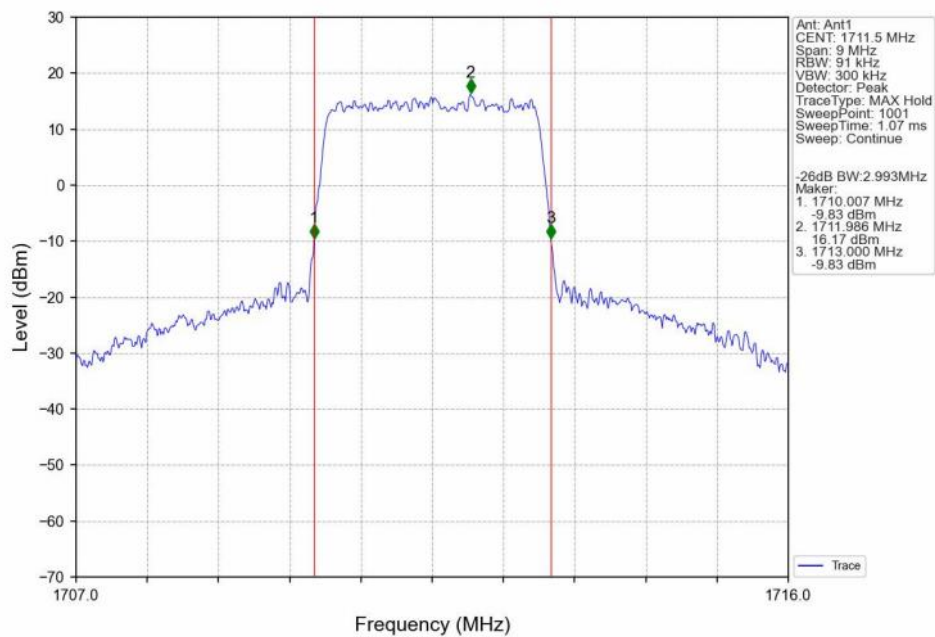
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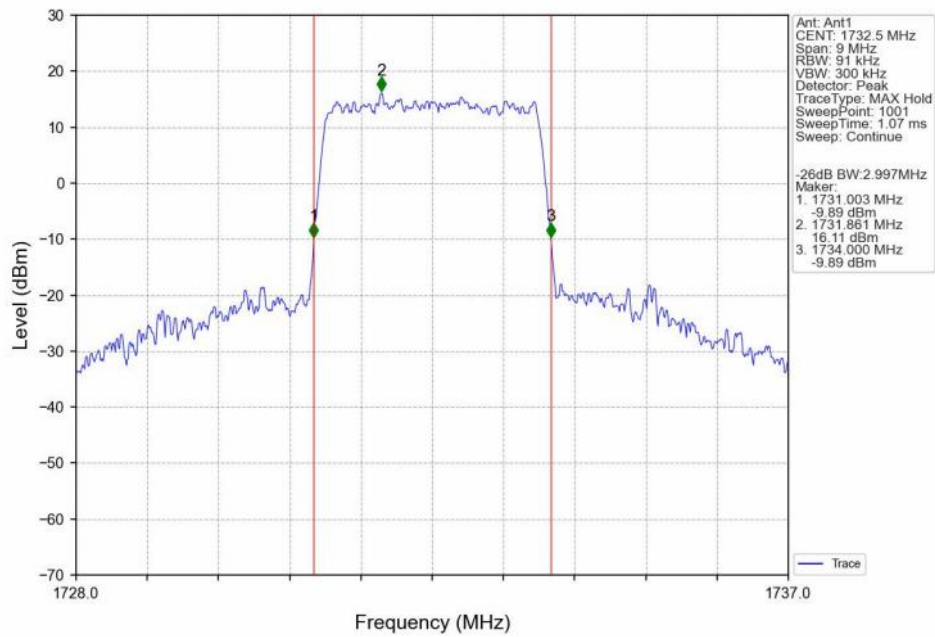
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



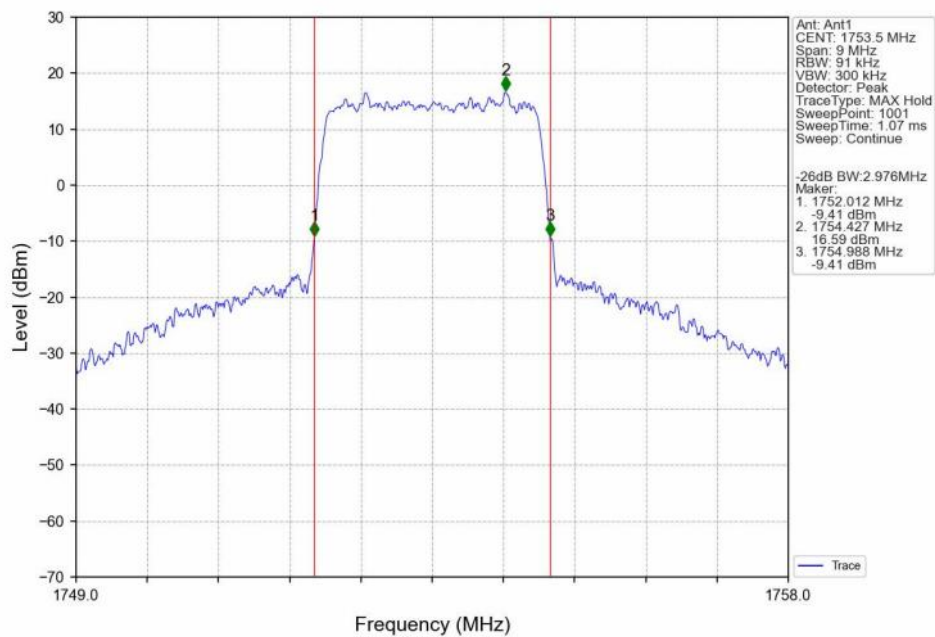
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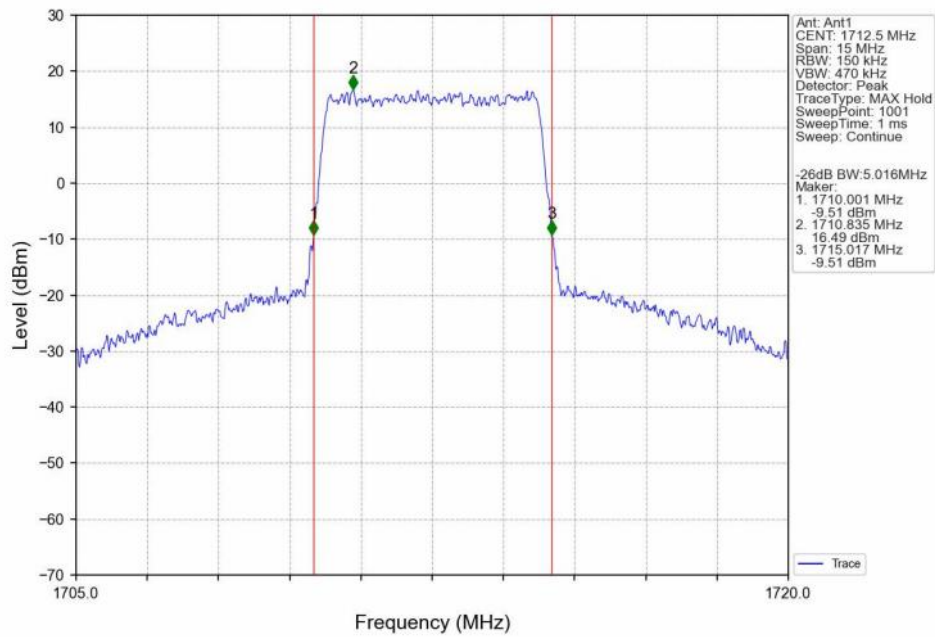
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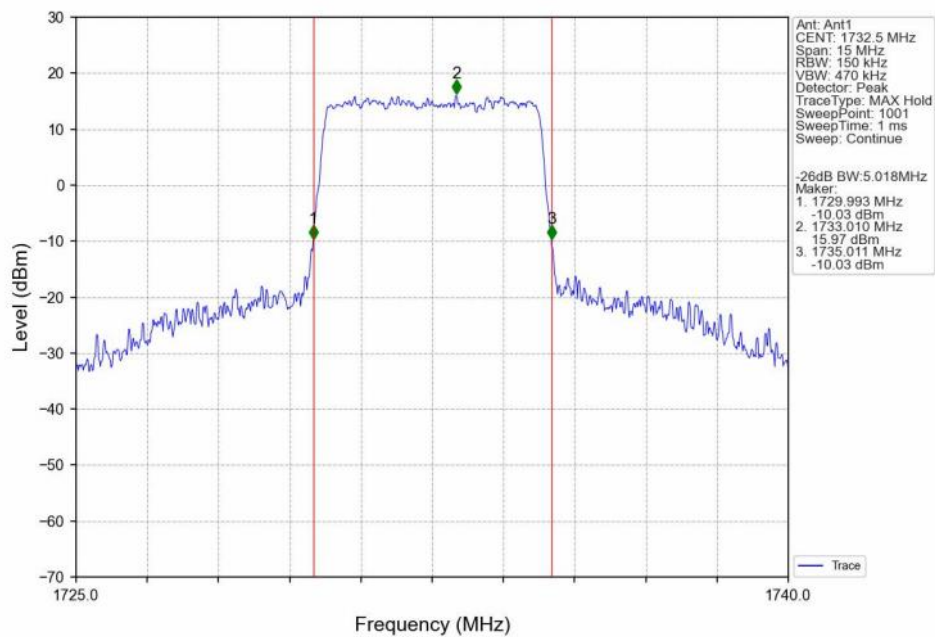
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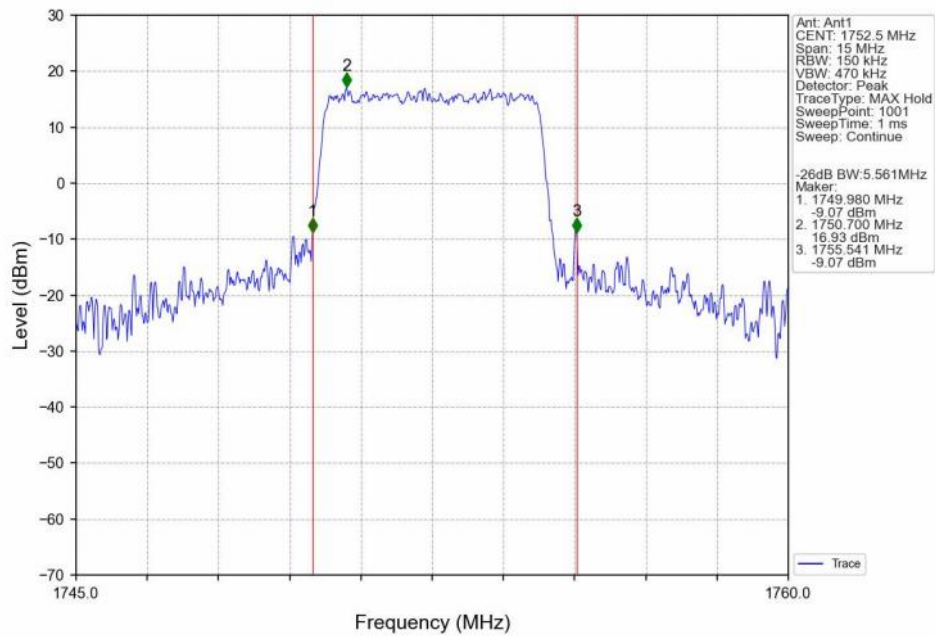
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



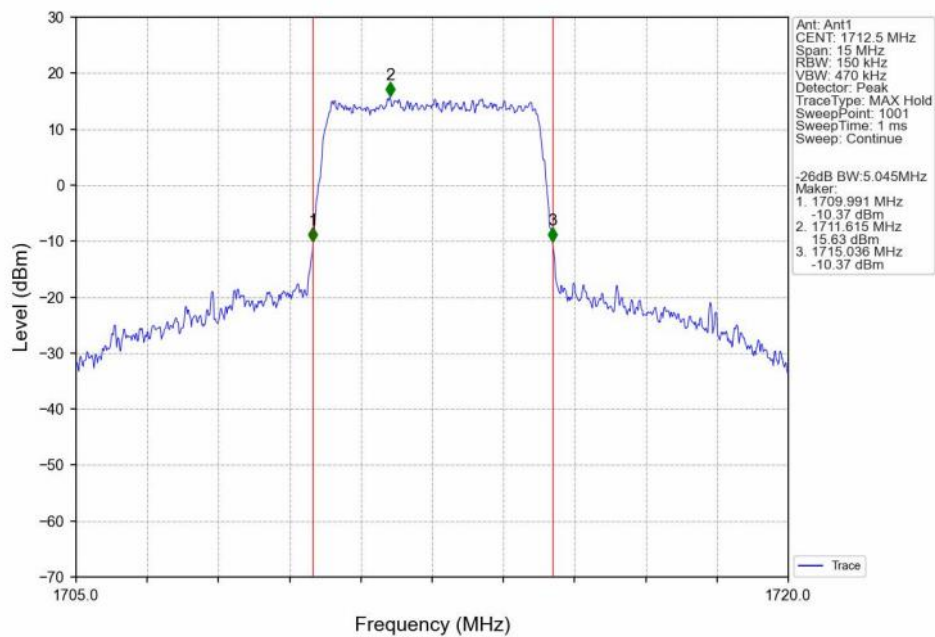
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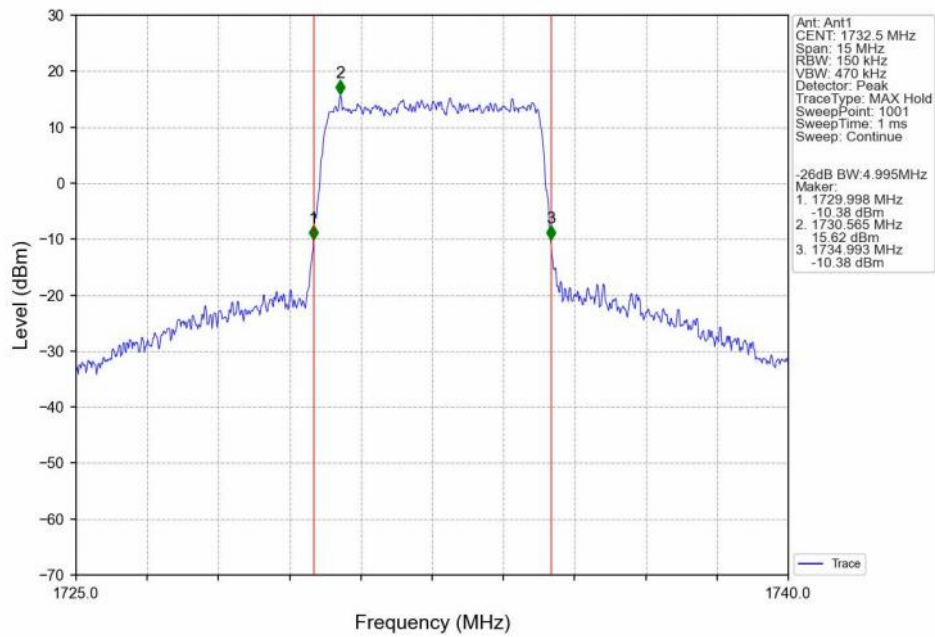
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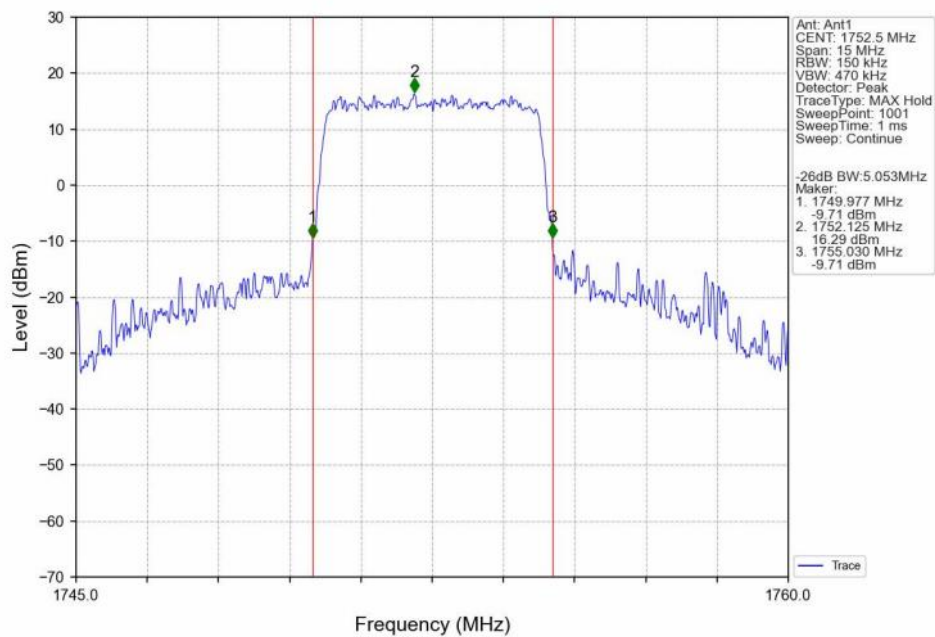
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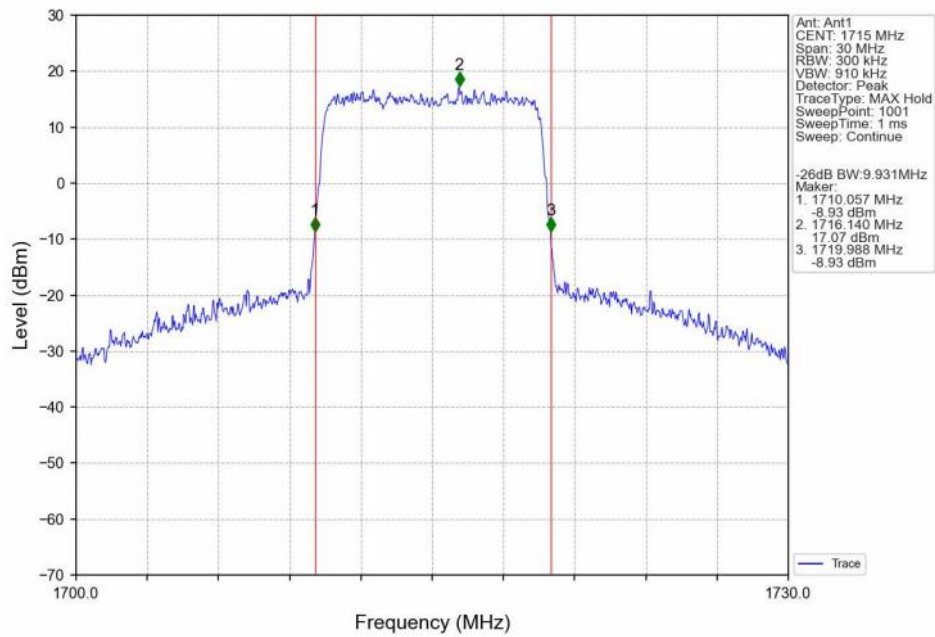
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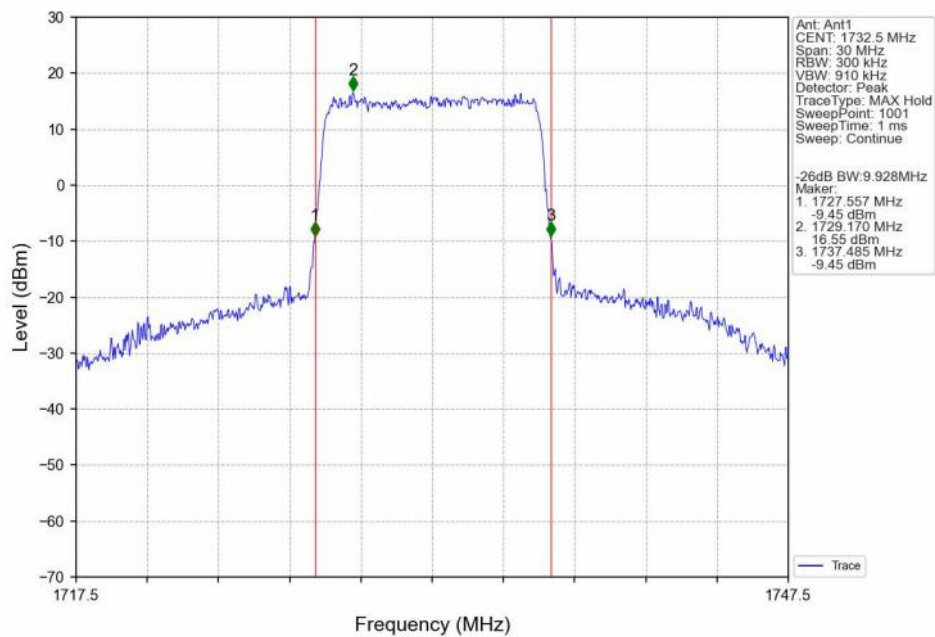
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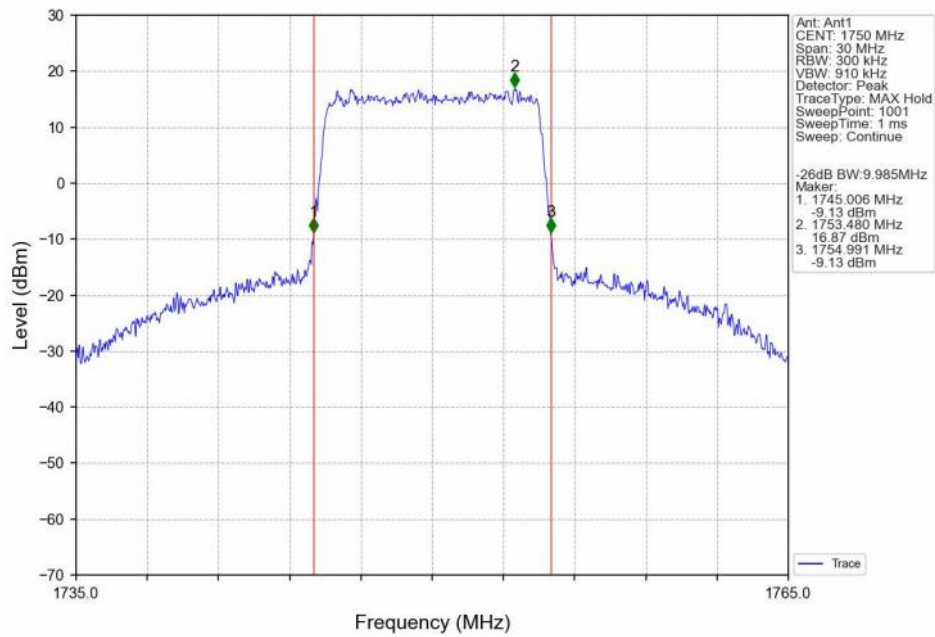
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



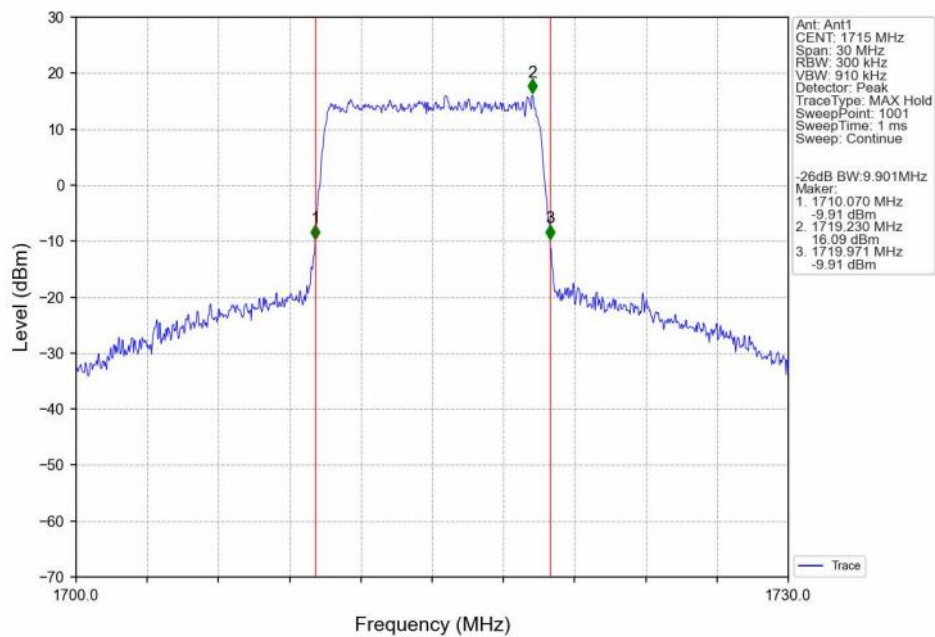
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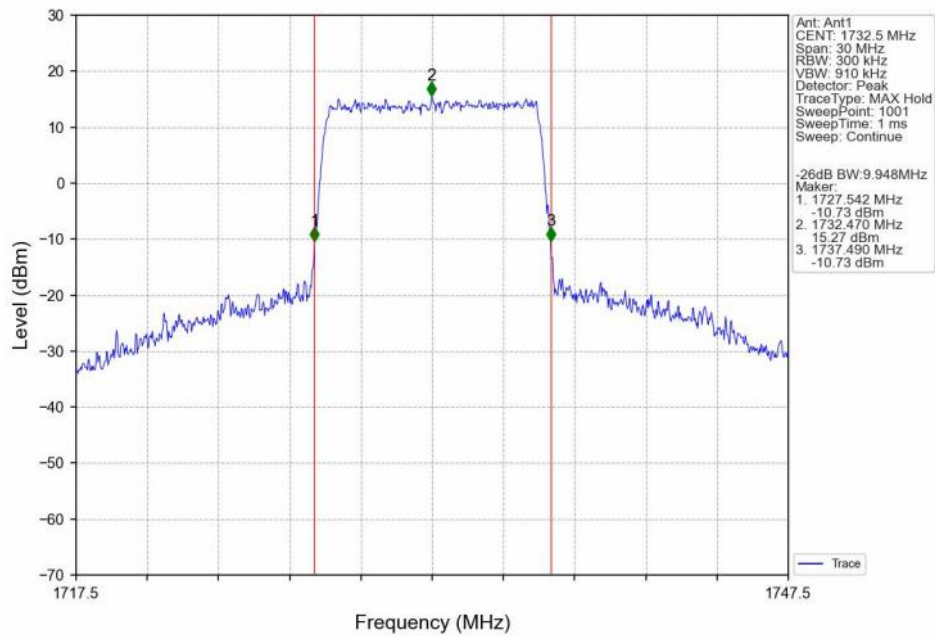
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



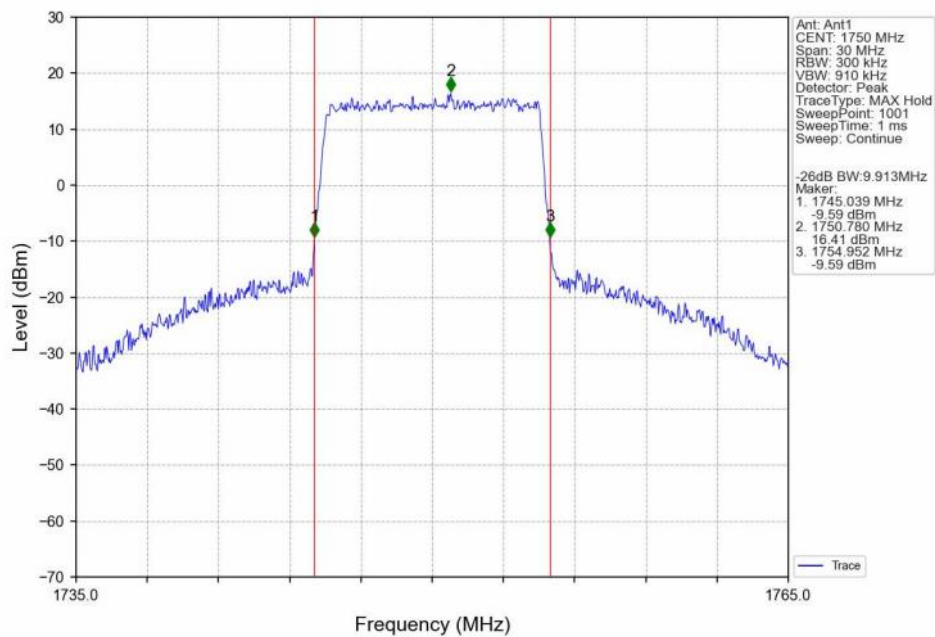
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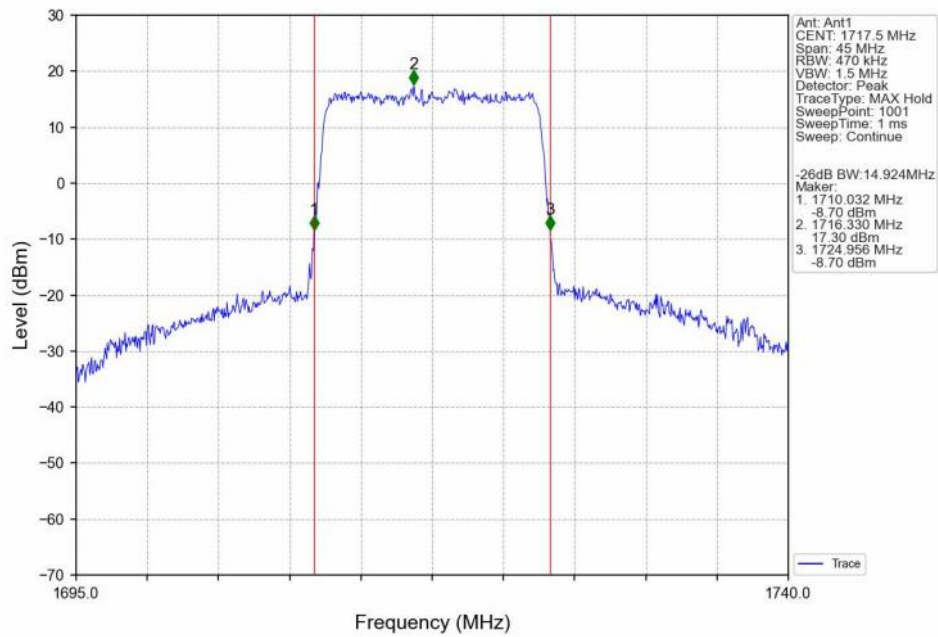
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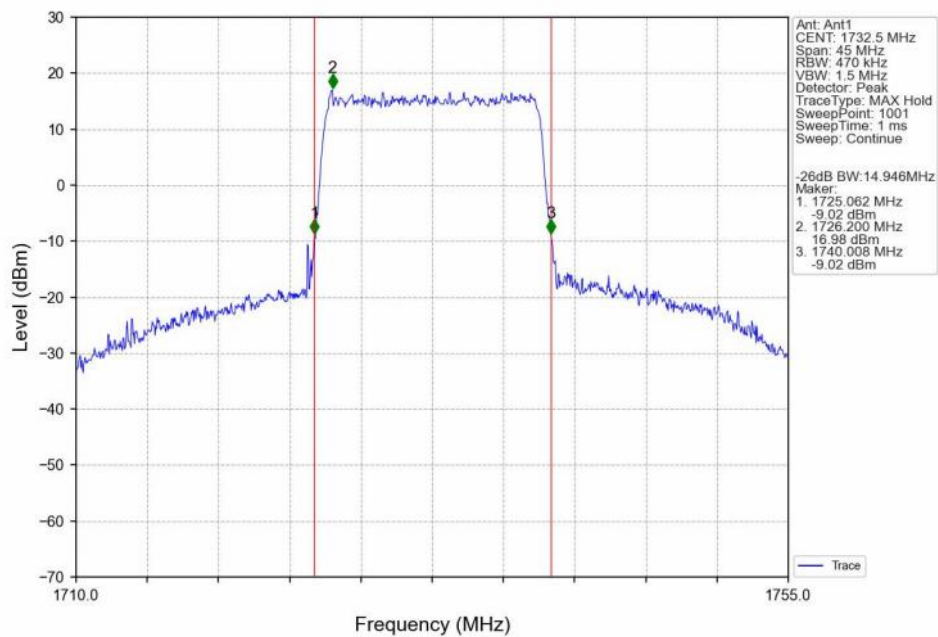
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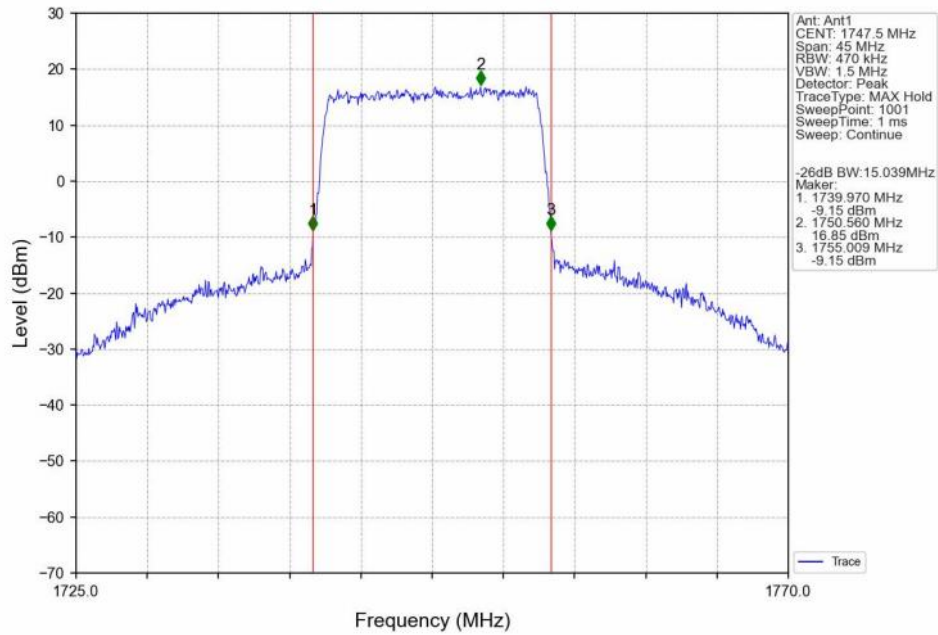
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



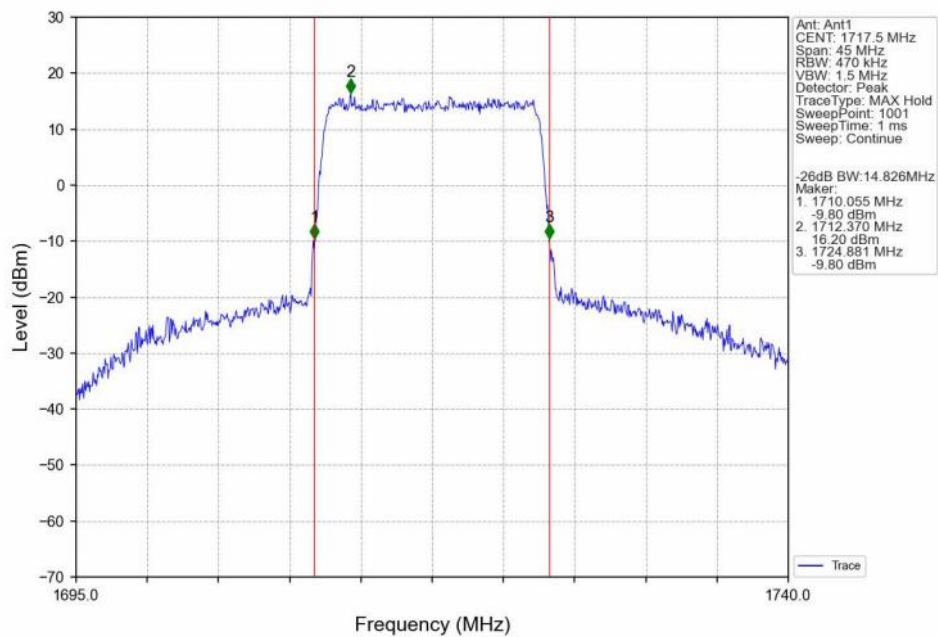
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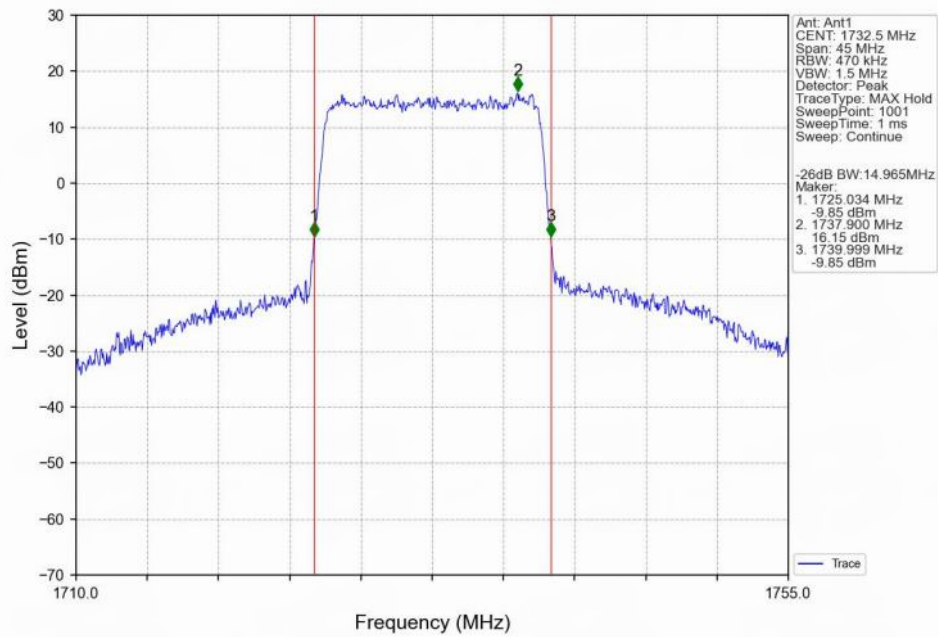
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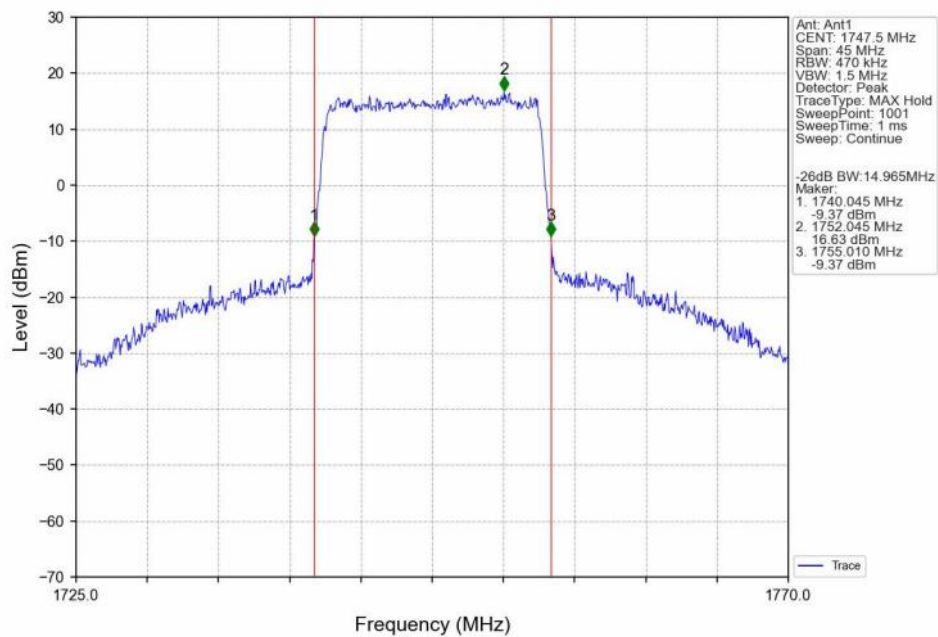
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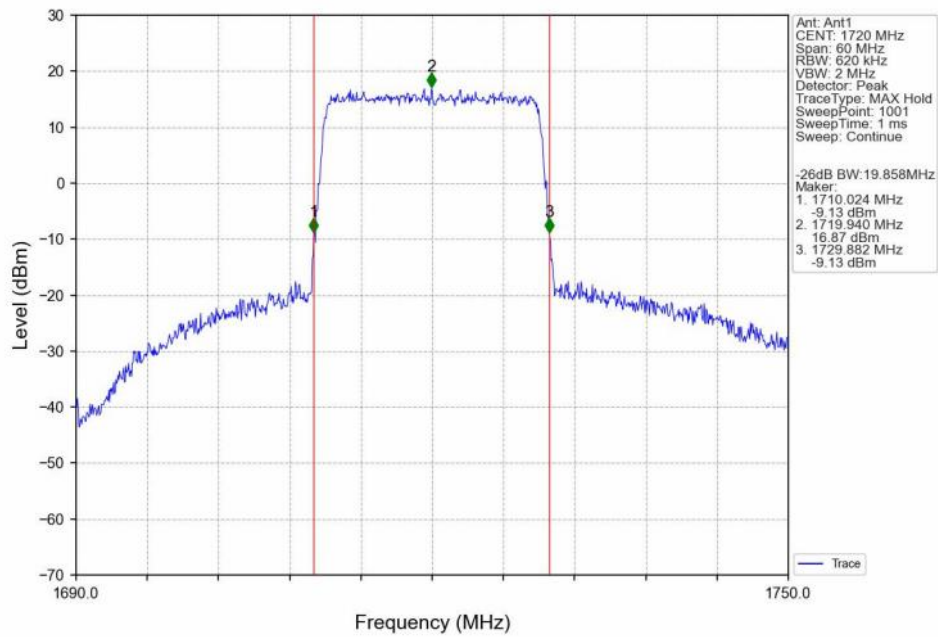
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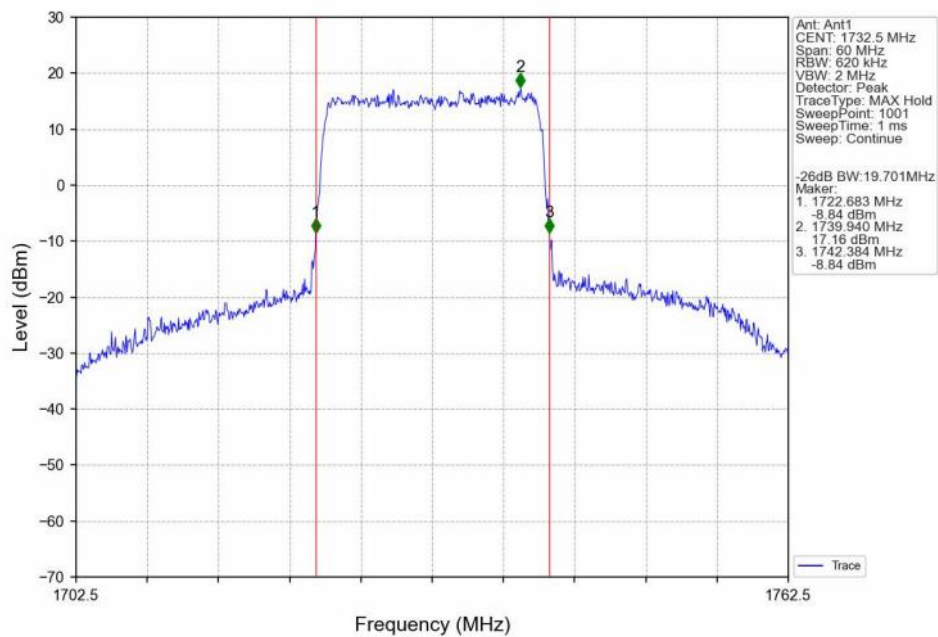
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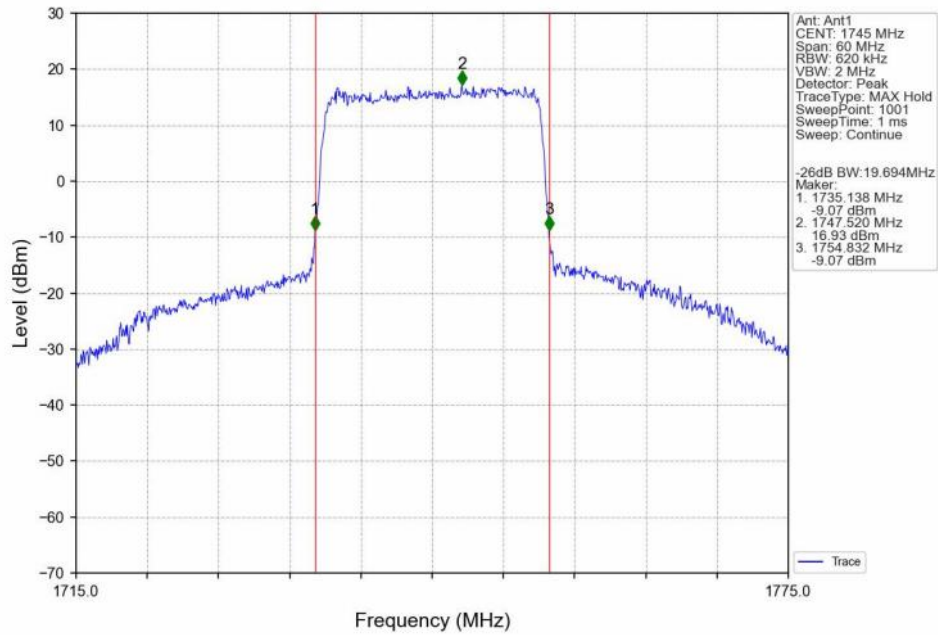
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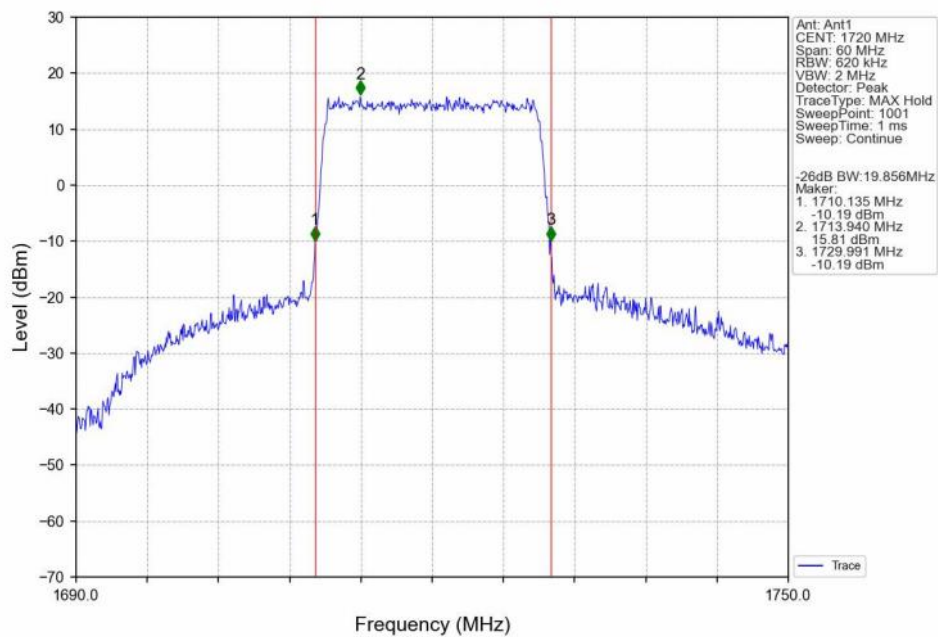
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



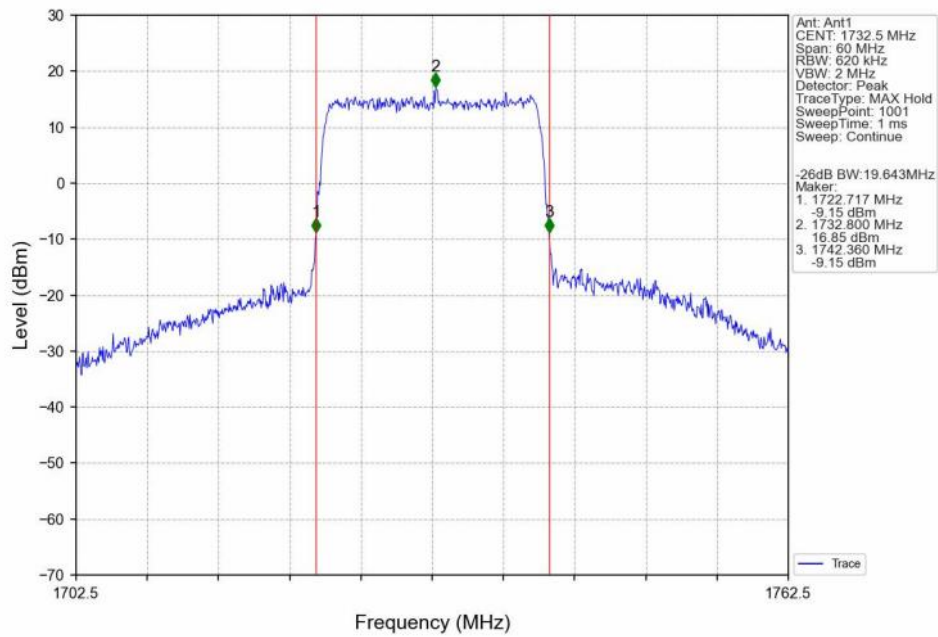
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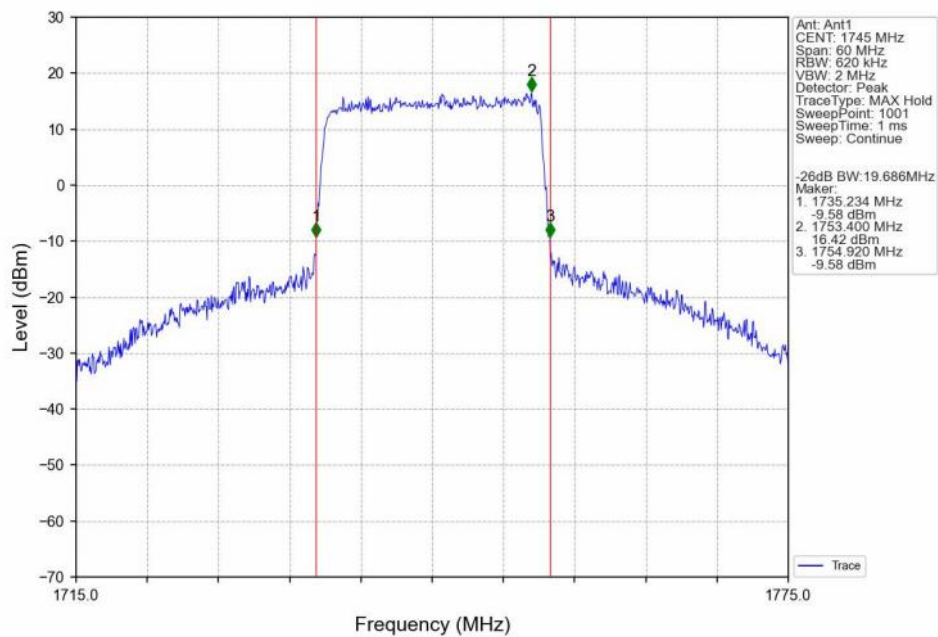
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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	5.21	<=13	Pass
	1754.3	6	0	4.71	<=13	Pass
16QAM	1710.7	6	0	5.89	<=13	Pass
	1732.5	6	0	6.10	<=13	Pass
	1754.3	6	0	5.53	<=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	5.20	<=13	Pass
	1732.5	15	0	5.30	<=13	Pass
	1753.5	15	0	4.83	<=13	Pass
16QAM	1711.5	15	0	6.01	<=13	Pass
	1732.5	15	0	6.18	<=13	Pass
	1753.5	15	0	5.67	<=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	5.41	<=13	Pass
	1732.5	25	0	5.51	<=13	Pass
	1752.5	25	0	5.11	<=13	Pass
16QAM	1712.5	25	0	6.15	<=13	Pass
	1732.5	25	0	6.25	<=13	Pass
	1752.5	25	0	5.81	<=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	5.44	<=13	Pass
	1732.5	50	0	5.47	<=13	Pass
	1750	50	0	5.07	<=13	Pass
16QAM	1715	50	0	6.21	<=13	Pass
	1732.5	50	0	6.26	<=13	Pass

	1750	50	0	5.82	<=13	Pass
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5.1.5 B4_15MHz

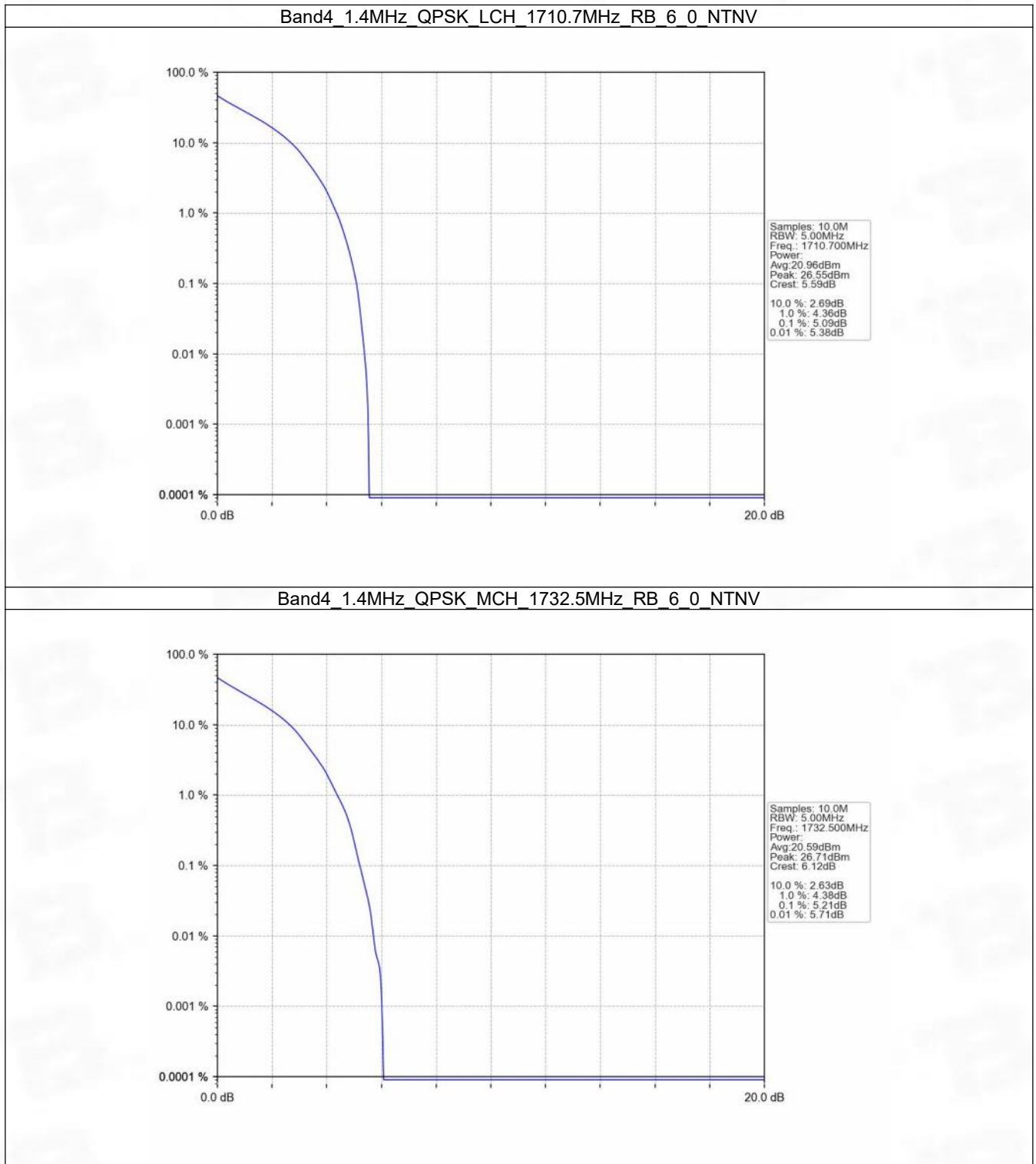
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.68	<=13	Pass
	1732.5	75	0	5.64	<=13	Pass
	1747.5	75	0	5.11	<=13	Pass
16QAM	1717.5	75	0	6.28	<=13	Pass
	1732.5	75	0	6.28	<=13	Pass
	1747.5	75	0	5.80	<=13	Pass

5.1.6 B4_20MHz

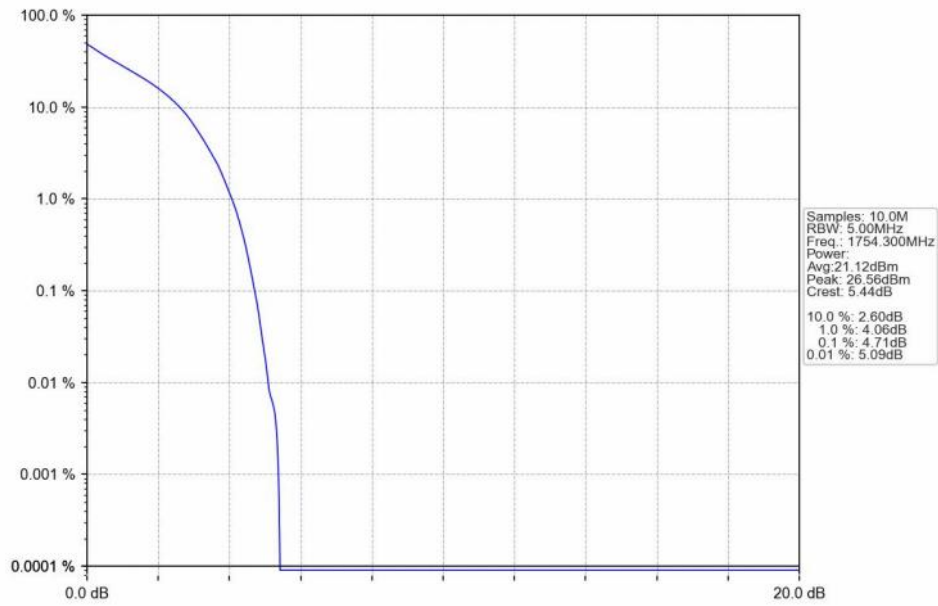
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.54	<=13	Pass
	1732.5	100	0	5.47	<=13	Pass
	1745	100	0	5.15	<=13	Pass
16QAM	1720	100	0	6.28	<=13	Pass
	1732.5	100	0	6.24	<=13	Pass
	1745	100	0	5.92	<=13	Pass

5.2 Test Graph

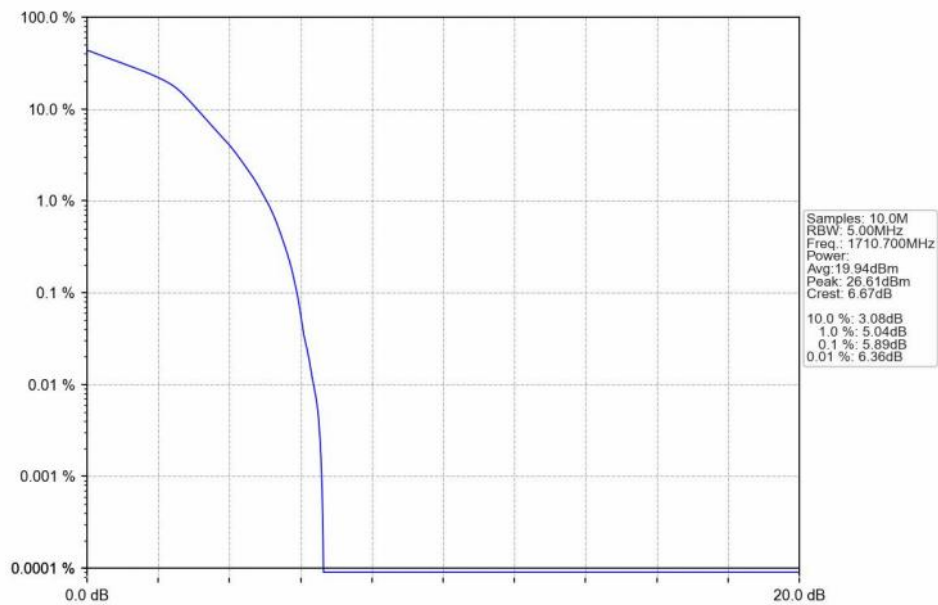
5.2.1 B4_1.4MHz



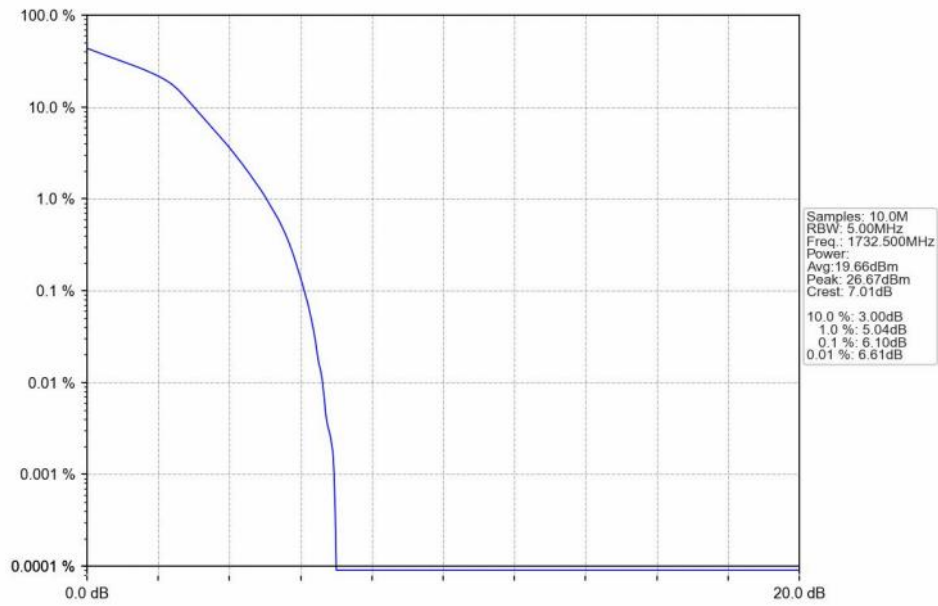
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



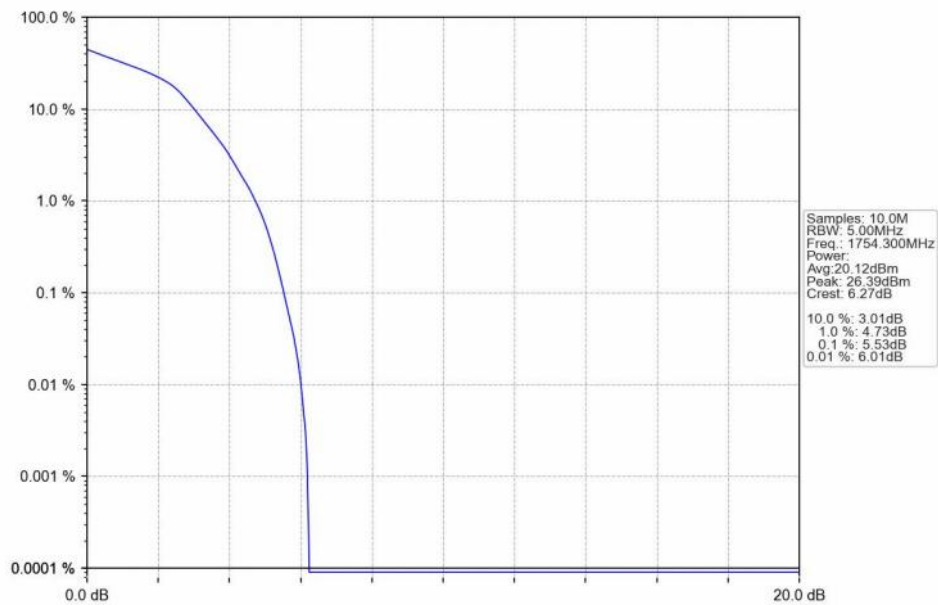
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



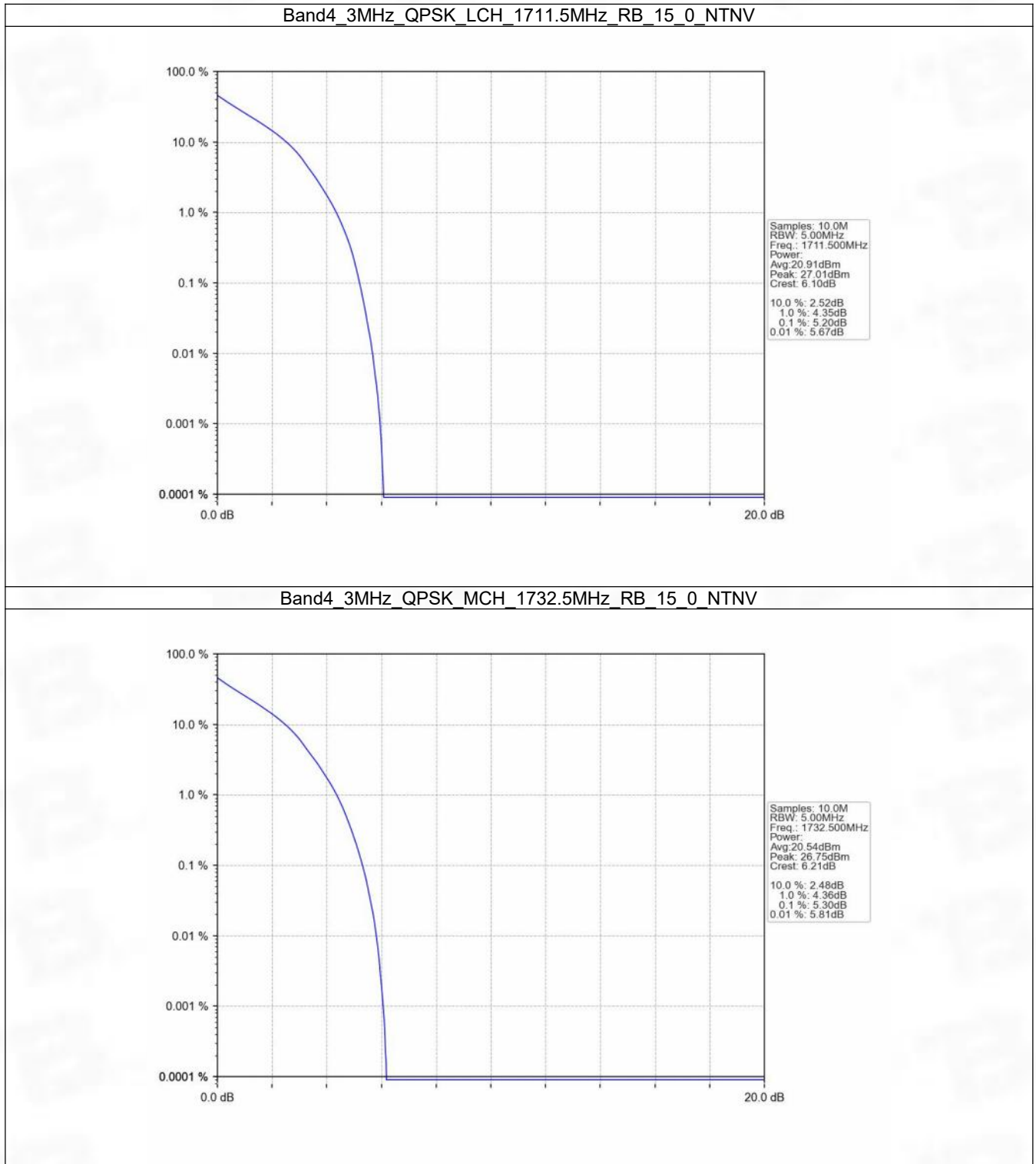
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



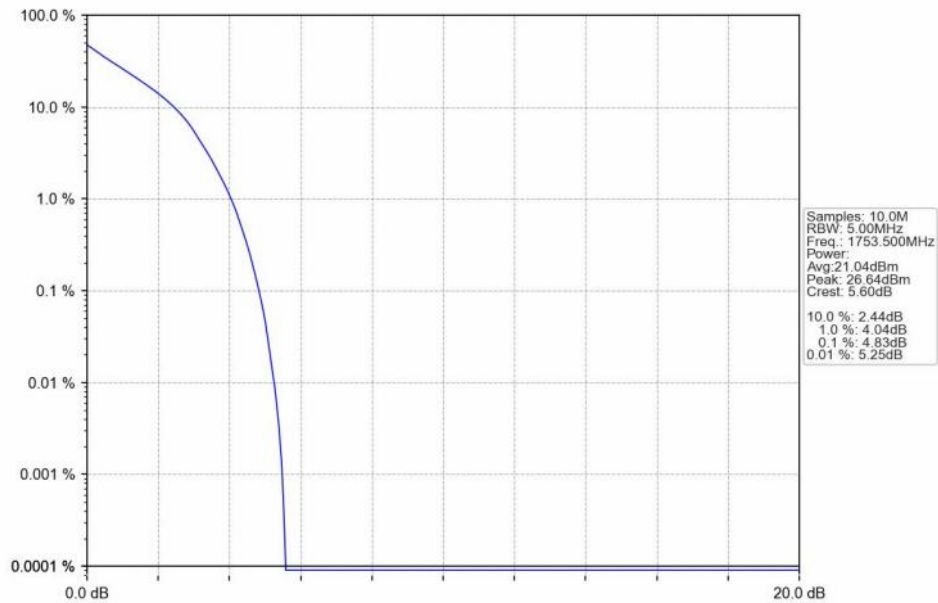
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



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

