

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	22.53	0.16	22.69	<=30	Pass
			2	22.58	0.16	22.74	<=30	Pass
			5	22.65	0.16	22.81	<=30	Pass
		3	0	22.55	0.16	22.71	<=30	Pass
			2	22.56	0.16	22.72	<=30	Pass
			3	22.50	0.16	22.66	<=30	Pass
		6	0	22.09	0.16	22.25	<=30	Pass
	1732.5	1	0	22.51	0.16	22.67	<=30	Pass
			2	22.69	0.16	22.85	<=30	Pass
			5	22.70	0.16	22.86	<=30	Pass
		3	0	22.55	0.16	22.71	<=30	Pass
			2	22.59	0.16	22.75	<=30	Pass
			3	22.52	0.16	22.68	<=30	Pass
		6	0	22.03	0.16	22.19	<=30	Pass
	1754.3	1	0	22.61	0.16	22.77	<=30	Pass
			2	22.55	0.16	22.71	<=30	Pass
			5	22.58	0.16	22.74	<=30	Pass
		3	0	22.59	0.16	22.75	<=30	Pass
			2	22.57	0.16	22.73	<=30	Pass
			3	22.64	0.16	22.80	<=30	Pass
		6	0	21.99	0.16	22.15	<=30	Pass
16QAM	1710.7	1	0	21.51	0.16	21.67	<=30	Pass
			2	21.57	0.16	21.73	<=30	Pass
			5	21.55	0.16	21.71	<=30	Pass
		3	0	21.99	0.16	22.15	<=30	Pass
			2	22.01	0.16	22.17	<=30	Pass
			3	21.97	0.16	22.13	<=30	Pass
		6	0	21.09	0.16	21.25	<=30	Pass
	1732.5	1	0	22.27	0.16	22.43	<=30	Pass
			2	22.29	0.16	22.45	<=30	Pass
			5	22.29	0.16	22.45	<=30	Pass
		3	0	22.28	0.16	22.44	<=30	Pass
			2	22.29	0.16	22.45	<=30	Pass
			3	22.30	0.16	22.46	<=30	Pass
		6	0	21.25	0.16	21.41	<=30	Pass
	1754.3	1	0	22.30	0.16	22.46	<=30	Pass
			2	22.31	0.16	22.47	<=30	Pass
			5	22.34	0.16	22.50	<=30	Pass
		3	0	21.81	0.16	21.97	<=30	Pass
			2	21.80	0.16	21.96	<=30	Pass
			3	21.78	0.16	21.94	<=30	Pass
		6	0	21.06	0.16	21.22	<=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	22.50	0.16	22.66	<=30	Pass
			7	22.56	0.16	22.72	<=30	Pass
			14	22.55	0.16	22.71	<=30	Pass
		8	0	21.98	0.16	22.14	<=30	Pass
			4	21.95	0.16	22.11	<=30	Pass
			7	22.01	0.16	22.17	<=30	Pass
		15	0	22.04	0.16	22.20	<=30	Pass
	1732.5	1	0	22.39	0.16	22.55	<=30	Pass
			7	22.47	0.16	22.63	<=30	Pass
			14	22.44	0.16	22.60	<=30	Pass
		8	0	21.98	0.16	22.14	<=30	Pass
			4	21.95	0.16	22.11	<=30	Pass
			7	21.95	0.16	22.11	<=30	Pass
		15	0	21.89	0.16	22.05	<=30	Pass
	1753.5	1	0	22.34	0.16	22.50	<=30	Pass
			7	22.37	0.16	22.53	<=30	Pass
			14	22.38	0.16	22.54	<=30	Pass
		8	0	22.07	0.16	22.23	<=30	Pass
			4	22.01	0.16	22.17	<=30	Pass
			7	22.01	0.16	22.17	<=30	Pass
		15	0	21.98	0.16	22.14	<=30	Pass
16QAM	1711.5	1	0	21.95	0.16	22.11	<=30	Pass
			7	21.91	0.16	22.07	<=30	Pass
			14	21.97	0.16	22.13	<=30	Pass
		8	0	21.22	0.16	21.38	<=30	Pass
			4	21.21	0.16	21.37	<=30	Pass
			7	21.24	0.16	21.40	<=30	Pass
		15	0	21.17	0.16	21.33	<=30	Pass
	1732.5	1	0	22.69	0.16	22.85	<=30	Pass
			7	22.73	0.16	22.89	<=30	Pass
			14	22.67	0.16	22.83	<=30	Pass
		8	0	21.25	0.16	21.41	<=30	Pass
			4	21.23	0.16	21.39	<=30	Pass
			7	21.22	0.16	21.38	<=30	Pass
		15	0	21.10	0.16	21.26	<=30	Pass
	1753.5	1	0	22.12	0.16	22.28	<=30	Pass
			7	22.11	0.16	22.27	<=30	Pass
			14	22.05	0.16	22.21	<=30	Pass
		8	0	21.24	0.16	21.40	<=30	Pass
			4	21.18	0.16	21.34	<=30	Pass
			7	21.18	0.16	21.34	<=30	Pass
		15	0	21.09	0.16	21.25	<=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	22.58	0.16	22.74	<=30	Pass
			13	22.42	0.16	22.58	<=30	Pass
			24	22.43	0.16	22.59	<=30	Pass
		12	0	22.01	0.16	22.17	<=30	Pass
			6	22.13	0.16	22.29	<=30	Pass
			13	22.06	0.16	22.22	<=30	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 2 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

	1732.5	25	0	22.07	0.16	22.23	<=30	Pass	
		1	0	22.60	0.16	22.76	<=30	Pass	
			13	22.51	0.16	22.67	<=30	Pass	
			24	22.55	0.16	22.71	<=30	Pass	
			12	0	21.99	0.16	22.15	<=30	Pass
		6		22.11	0.16	22.27	<=30	Pass	
		13		22.05	0.16	22.21	<=30	Pass	
		25	0	22.05	0.16	22.21	<=30	Pass	
		1752.5	1	0	22.41	0.16	22.57	<=30	Pass
				13	22.44	0.16	22.60	<=30	Pass
	24			22.45	0.16	22.61	<=30	Pass	
	12		0	22.00	0.16	22.16	<=30	Pass	
			6	22.00	0.16	22.16	<=30	Pass	
			13	21.98	0.16	22.14	<=30	Pass	
	25	0	22.00	0.16	22.16	<=30	Pass		
	16QAM	1712.5	1	0	22.19	0.16	22.35	<=30	Pass
				13	22.24	0.16	22.40	<=30	Pass
				24	22.33	0.16	22.49	<=30	Pass
			12	0	21.14	0.16	21.30	<=30	Pass
				6	21.17	0.16	21.33	<=30	Pass
13				21.16	0.16	21.32	<=30	Pass	
25			0	21.29	0.16	21.45	<=30	Pass	
1732.5		1	0	22.20	0.16	22.36	<=30	Pass	
			13	22.18	0.16	22.34	<=30	Pass	
			24	22.25	0.16	22.41	<=30	Pass	
		12	0	21.14	0.16	21.30	<=30	Pass	
			6	21.18	0.16	21.34	<=30	Pass	
			13	21.16	0.16	21.32	<=30	Pass	
25		0	21.12	0.16	21.28	<=30	Pass		
1752.5		1	0	21.33	0.16	21.49	<=30	Pass	
			13	21.34	0.16	21.50	<=30	Pass	
			24	21.28	0.16	21.44	<=30	Pass	
		12	0	21.18	0.16	21.34	<=30	Pass	
			6	21.15	0.16	21.31	<=30	Pass	
			13	21.13	0.16	21.29	<=30	Pass	
	25	0	21.17	0.16	21.33	<=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	22.63	0.16	22.79	<=30	Pass
			25	22.67	0.16	22.83	<=30	Pass
			49	22.61	0.16	22.77	<=30	Pass
		25	0	22.17	0.16	22.33	<=30	Pass
			13	22.06	0.16	22.22	<=30	Pass
			25	22.17	0.16	22.33	<=30	Pass
		50	0	22.18	0.16	22.34	<=30	Pass
			0	22.73	0.16	22.89	<=30	Pass
			25	22.63	0.16	22.79	<=30	Pass
	1732.5	1	49	22.65	0.16	22.81	<=30	Pass
			0	22.02	0.16	22.18	<=30	Pass
			13	22.06	0.16	22.22	<=30	Pass
		25	25	22.06	0.16	22.22	<=30	Pass
			0	22.08	0.16	22.24	<=30	Pass
			0	22.52	0.16	22.68	<=30	Pass
		50	0	22.08	0.16	22.24	<=30	Pass
			0	22.52	0.16	22.68	<=30	Pass
			0	22.52	0.16	22.68	<=30	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 3 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

16QAM		25	25	22.54	0.16	22.70	<=30	Pass
			49	22.51	0.16	22.67	<=30	Pass
			0	22.00	0.16	22.16	<=30	Pass
			13	21.95	0.16	22.11	<=30	Pass
			25	22.12	0.16	22.28	<=30	Pass
	50	0	22.14	0.16	22.30	<=30	Pass	Pass
			21.59	0.16	21.75	<=30	Pass	Pass
			21.63	0.16	21.79	<=30	Pass	Pass
			21.67	0.16	21.83	<=30	Pass	Pass
			21.28	0.16	21.44	<=30	Pass	Pass
	25	13	21.31	0.16	21.47	<=30	Pass	Pass
			21.32	0.16	21.48	<=30	Pass	Pass
			21.15	0.16	21.31	<=30	Pass	Pass
			22.33	0.16	22.49	<=30	Pass	Pass
			22.32	0.16	22.48	<=30	Pass	Pass
	1732.5	1	22.28	0.16	22.44	<=30	Pass	Pass
			21.28	0.16	21.44	<=30	Pass	Pass
			21.35	0.16	21.51	<=30	Pass	Pass
			21.30	0.16	21.46	<=30	Pass	Pass
			21.28	0.16	21.44	<=30	Pass	Pass
	1750	1	0	22.38	0.16	22.54	<=30	Pass
			25	22.38	0.16	22.54	<=30	Pass
			49	22.38	0.16	22.54	<=30	Pass
			0	21.14	0.16	21.30	<=30	Pass
			13	21.16	0.16	21.32	<=30	Pass
		25	25	21.19	0.16	21.35	<=30	Pass
			21.23	0.16	21.39	<=30	Pass	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1717.5	1	0	22.56	0.16	22.72	<=30	Pass		
			38	22.59	0.16	22.75	<=30	Pass		
			74	22.53	0.16	22.69	<=30	Pass		
		36	0	22.23	0.16	22.39	<=30	Pass		
			18	22.07	0.16	22.23	<=30	Pass		
			39	22.22	0.16	22.38	<=30	Pass		
		75	0	22.17	0.16	22.33	<=30	Pass		
		1732.5	1	0	22.55	0.16	22.71	<=30	Pass	
				38	22.55	0.16	22.71	<=30	Pass	
	74			22.58	0.16	22.74	<=30	Pass		
	36		0	22.21	0.16	22.37	<=30	Pass		
			18	22.06	0.16	22.22	<=30	Pass		
			39	22.15	0.16	22.31	<=30	Pass		
	75		0	22.12	0.16	22.28	<=30	Pass		
	1747.5		1	0	22.46	0.16	22.62	<=30	Pass	
				38	22.51	0.16	22.67	<=30	Pass	
		74		22.56	0.16	22.72	<=30	Pass		
		36	0	22.05	0.16	22.21	<=30	Pass		
			18	21.96	0.16	22.12	<=30	Pass		
			39	22.08	0.16	22.24	<=30	Pass		
		75	0	21.92	0.16	22.08	<=30	Pass		
		16QAM	1717.5	1	0	22.42	0.16	22.58	<=30	Pass
					38	22.44	0.16	22.60	<=30	Pass
	74				22.43	0.16	22.59	<=30	Pass	

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 4 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

		36	0	21.18	0.16	21.34	<=30	Pass
			18	21.21	0.16	21.37	<=30	Pass
			39	21.27	0.16	21.43	<=30	Pass
		75	0	21.26	0.16	21.42	<=30	Pass
	1732.5	1	0	22.86	0.16	23.02	<=30	Pass
			38	22.83	0.16	22.99	<=30	Pass
			74	22.77	0.16	22.93	<=30	Pass
		36	0	21.16	0.16	21.32	<=30	Pass
			18	21.24	0.16	21.40	<=30	Pass
			39	21.15	0.16	21.31	<=30	Pass
		75	0	21.25	0.16	21.41	<=30	Pass
	1747.5	1	0	22.38	0.16	22.54	<=30	Pass
			38	22.44	0.16	22.60	<=30	Pass
			74	22.39	0.16	22.55	<=30	Pass
		36	0	21.30	0.16	21.46	<=30	Pass
			18	21.22	0.16	21.38	<=30	Pass
			39	21.30	0.16	21.46	<=30	Pass
	75	0	21.13	0.16	21.29	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								

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	22.61	0.16	22.77	<=30	Pass		
			50	22.68	0.16	22.84	<=30	Pass		
			99	22.71	0.16	22.87	<=30	Pass		
		50	0	22.20	0.16	22.36	<=30	Pass		
			25	22.15	0.16	22.31	<=30	Pass		
			50	22.19	0.16	22.35	<=30	Pass		
		100	0	22.14	0.16	22.30	<=30	Pass		
		1732.5	1	0	22.55	0.16	22.71	<=30	Pass	
				50	22.54	0.16	22.70	<=30	Pass	
	99			22.59	0.16	22.75	<=30	Pass		
	50		0	22.14	0.16	22.30	<=30	Pass		
			25	22.08	0.16	22.24	<=30	Pass		
			50	22.16	0.16	22.32	<=30	Pass		
	100		0	22.12	0.16	22.28	<=30	Pass		
	1745		1	0	22.89	0.16	23.05	<=30	Pass	
				50	22.89	0.16	23.05	<=30	Pass	
		99		22.94	0.16	23.10	<=30	Pass		
		50	0	22.03	0.16	22.19	<=30	Pass		
			25	22.06	0.16	22.22	<=30	Pass		
			50	22.04	0.16	22.20	<=30	Pass		
		100	0	22.19	0.16	22.35	<=30	Pass		
		16QAM	1720	1	0	22.89	0.16	23.05	<=30	Pass
					50	22.94	0.16	23.10	<=30	Pass
	99				22.97	0.16	23.13	<=30	Pass	
	50			0	21.18	0.16	21.34	<=30	Pass	
25				21.25	0.16	21.41	<=30	Pass		
50				21.23	0.16	21.39	<=30	Pass		
100	0			21.26	0.16	21.42	<=30	Pass		
1732.5	1			0	22.45	0.16	22.61	<=30	Pass	
				50	22.40	0.16	22.56	<=30	Pass	
			99	22.45	0.16	22.61	<=30	Pass		
	50		0	21.21	0.16	21.37	<=30	Pass		
			25	21.26	0.16	21.42	<=30	Pass		

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 5 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

		100	50	21.26	0.16	21.42	<=30	Pass
			0	21.22	0.16	21.38	<=30	Pass
	1745	1	0	21.49	0.16	21.65	<=30	Pass
			50	21.59	0.16	21.75	<=30	Pass
			99	21.63	0.16	21.79	<=30	Pass
	50		0	21.27	0.16	21.43	<=30	Pass
			25	21.32	0.16	21.48	<=30	Pass
			50	21.34	0.16	21.50	<=30	Pass
	100		0	21.14	0.16	21.30	<=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	-31.443	-0.0184	-2.5 to 2.5	Pass
					3.85	-30.370	-0.0178	-2.5 to 2.5	Pass
					4.43	-37.079	-0.0217	-2.5 to 2.5	Pass
				-30	3.85	-28.682	-0.0168	-2.5 to 2.5	Pass
					3.85	-21.043	-0.0123	-2.5 to 2.5	Pass
					3.85	-38.910	-0.0227	-2.5 to 2.5	Pass
				0	3.85	-25.291	-0.0148	-2.5 to 2.5	Pass
					3.85	-8.039	-0.0047	-2.5 to 2.5	Pass
					3.85	-27.223	-0.0159	-2.5 to 2.5	Pass
				40	3.85	0.129	0.0001	-2.5 to 2.5	Pass
					3.85	-1.645	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.645	-0.0010	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-35.462	-0.0205	-2.5 to 2.5	Pass
					3.85	-10.715	-0.0062	-2.5 to 2.5	Pass
					4.43	-15.936	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	4.678	0.0027	-2.5 to 2.5	Pass
					3.85	29.798	0.0172	-2.5 to 2.5	Pass
					3.85	20.585	0.0119	-2.5 to 2.5	Pass
				0	3.85	6.022	0.0035	-2.5 to 2.5	Pass
					3.85	27.924	0.0161	-2.5 to 2.5	Pass
					3.85	18.554	0.0107	-2.5 to 2.5	Pass
				40	3.85	32.873	0.0190	-2.5 to 2.5	Pass
					3.85	16.766	0.0097	-2.5 to 2.5	Pass
					3.85	16.766	0.0097	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	3.948	0.0023	-2.5 to 2.5	Pass
					3.85	19.856	0.0113	-2.5 to 2.5	Pass
					4.43	8.612	0.0049	-2.5 to 2.5	Pass
				-30	3.85	26.193	0.0149	-2.5 to 2.5	Pass
					3.85	13.375	0.0076	-2.5 to 2.5	Pass
					3.85	33.102	0.0189	-2.5 to 2.5	Pass
				0	3.85	-2.732	-0.0016	-2.5 to 2.5	Pass
					3.85	19.183	0.0109	-2.5 to 2.5	Pass
					3.85	32.516	0.0185	-2.5 to 2.5	Pass
				40	3.85	40.154	0.0229	-2.5 to 2.5	Pass
					3.85	47.607	0.0271	-2.5 to 2.5	Pass
					3.85	47.607	0.0271	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.27	-4.606	-0.0027	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0011	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0008	-2.5 to 2.5	Pass

				-30	3.85	-0.443	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				-10	3.85	4.320	0.0025	-2.5 to 2.5	Pass
				0	3.85	5.608	0.0033	-2.5 to 2.5	Pass
				10	3.85	5.908	0.0035	-2.5 to 2.5	Pass
				30	3.85	11.187	0.0065	-2.5 to 2.5	Pass
				40	3.85	12.860	0.0075	-2.5 to 2.5	Pass
				50	3.85	21.515	0.0126	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	36.449	0.0210	-2.5 to 2.5	Pass
					3.85	-3.347	-0.0019	-2.5 to 2.5	Pass
					4.43	-1.388	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	4.978	0.0029	-2.5 to 2.5	Pass
				-10	3.85	10.171	0.0059	-2.5 to 2.5	Pass
				0	3.85	12.488	0.0072	-2.5 to 2.5	Pass
				10	3.85	20.742	0.0120	-2.5 to 2.5	Pass
				30	3.85	-23.561	-0.0136	-2.5 to 2.5	Pass
				40	3.85	-14.591	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-9.542	-0.0055	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	13.247	0.0076	-2.5 to 2.5	Pass
					3.85	4.492	0.0026	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-12.860	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-13.232	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-18.239	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-20.185	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-16.365	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-16.479	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-16.279	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-9.985	-0.0057	-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	19.069	0.0111	-2.5 to 2.5	Pass
					3.85	16.294	0.0095	-2.5 to 2.5	Pass
					4.43	35.305	0.0206	-2.5 to 2.5	Pass
				-30	3.85	38.180	0.0223	-2.5 to 2.5	Pass
				-20	3.85	44.475	0.0260	-2.5 to 2.5	Pass
				-10	3.85	-8.354	-0.0049	-2.5 to 2.5	Pass
				0	3.85	22.774	0.0133	-2.5 to 2.5	Pass
				10	3.85	-2.246	-0.0013	-2.5 to 2.5	Pass
				30	3.85	27.022	0.0158	-2.5 to 2.5	Pass
				40	3.85	11.072	0.0065	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.85	22.888	0.0134	-2.5 to 2.5	Pass
					3.27	19.255	0.0111	-2.5 to 2.5	Pass
					3.85	13.905	0.0080	-2.5 to 2.5	Pass
					4.43	32.873	0.0190	-2.5 to 2.5	Pass
				-30	3.85	33.574	0.0194	-2.5 to 2.5	Pass
				-20	3.85	34.819	0.0201	-2.5 to 2.5	Pass
				-10	3.85	-1.030	-0.0006	-2.5 to 2.5	Pass
				0	3.85	27.766	0.0160	-2.5 to 2.5	Pass
				10	3.85	8.812	0.0051	-2.5 to 2.5	Pass
				30	3.85	29.783	0.0172	-2.5 to 2.5	Pass
				40	3.85	12.331	0.0071	-2.5 to 2.5	Pass
				50	3.85	30.885	0.0178	-2.5 to 2.5	Pass

	1753.5	15	0	20	3.27	-0.329	-0.0002	-2.5 to 2.5	Pass
					3.85	12.589	0.0072	-2.5 to 2.5	Pass
					4.43	45.962	0.0262	-2.5 to 2.5	Pass
				-30	3.85	-3.805	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	11.458	0.0065	-2.5 to 2.5	Pass
				-10	3.85	25.907	0.0148	-2.5 to 2.5	Pass
				0	3.85	-3.262	-0.0019	-2.5 to 2.5	Pass
				10	3.85	12.360	0.0070	-2.5 to 2.5	Pass
				30	3.85	21.358	0.0122	-2.5 to 2.5	Pass
				40	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	7.153	0.0042	-2.5 to 2.5	Pass
					3.85	4.263	0.0025	-2.5 to 2.5	Pass
					4.43	-12.116	-0.0071	-2.5 to 2.5	Pass
				-30	3.85	-14.992	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-17.853	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-14.906	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-13.232	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-13.504	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-16.208	-0.0095	-2.5 to 2.5	Pass
				40	3.85	-10.872	-0.0064	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	2.432	0.0014	-2.5 to 2.5	Pass
					3.85	-5.422	-0.0031	-2.5 to 2.5	Pass
					4.43	-25.449	-0.0147	-2.5 to 2.5	Pass
				-30	3.85	-34.232	-0.0198	-2.5 to 2.5	Pass
				-20	3.85	-1.330	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-1.187	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.917	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.931	-0.0011	-2.5 to 2.5	Pass
				40	3.85	7.324	0.0042	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	20.270	0.0116	-2.5 to 2.5	Pass
					3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
					4.43	-36.950	-0.0211	-2.5 to 2.5	Pass
				-30	3.85	-26.207	-0.0149	-2.5 to 2.5	Pass
				-20	3.85	-34.060	-0.0194	-2.5 to 2.5	Pass
				-10	3.85	-1.802	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-9.685	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-16.952	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-21.229	-0.0121	-2.5 to 2.5	Pass
				40	3.85	-25.578	-0.0146	-2.5 to 2.5	Pass
				50	3.85	-23.274	-0.0133	-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	27.895	0.0163	-2.5 to 2.5	Pass
					3.85	27.938	0.0163	-2.5 to 2.5	Pass
					4.43	29.697	0.0173	-2.5 to 2.5	Pass
				-30	3.85	24.004	0.0140	-2.5 to 2.5	Pass
				-20	3.85	-12.045	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	21.029	0.0123	-2.5 to 2.5	Pass
				0	3.85	36.278	0.0212	-2.5 to 2.5	Pass
				10	3.85	26.264	0.0153	-2.5 to 2.5	Pass

Total or partial reproduction of this document without permission of the Laboratory is not allowed.

Page 8 of 196

BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Email: info@btf-lab.com

Tel: +86-755-23146130

<http://www.btf-lab.com>

Version: 1/00

				30	3.85	12.803	0.0075	-2.5 to 2.5	Pass
				40	3.85	35.062	0.0205	-2.5 to 2.5	Pass
				50	3.85	-6.952	-0.0041	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	2.060	0.0012	-2.5 to 2.5	Pass
					3.85	7.353	0.0042	-2.5 to 2.5	Pass
					4.43	27.237	0.0157	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	31.958	0.0184	-2.5 to 2.5	Pass
				-10	3.85	31.757	0.0183	-2.5 to 2.5	Pass
				0	3.85	24.147	0.0139	-2.5 to 2.5	Pass
				10	3.85	8.826	0.0051	-2.5 to 2.5	Pass
				30	3.85	26.536	0.0153	-2.5 to 2.5	Pass
				40	3.85	18.783	0.0108	-2.5 to 2.5	Pass
				50	3.85	38.652	0.0223	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	7.982	0.0046	-2.5 to 2.5	Pass
					3.85	9.985	0.0057	-2.5 to 2.5	Pass
					4.43	28.081	0.0160	-2.5 to 2.5	Pass
				-30	3.85	9.413	0.0054	-2.5 to 2.5	Pass
				-20	3.85	22.831	0.0130	-2.5 to 2.5	Pass
				-10	3.85	3.161	0.0018	-2.5 to 2.5	Pass
				0	3.85	16.665	0.0095	-2.5 to 2.5	Pass
				10	3.85	26.793	0.0153	-2.5 to 2.5	Pass
				30	3.85	32.401	0.0185	-2.5 to 2.5	Pass
				40	3.85	4.492	0.0026	-2.5 to 2.5	Pass
				50	3.85	9.127	0.0052	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	12.002	0.0070	-2.5 to 2.5	Pass
					3.85	-3.190	-0.0019	-2.5 to 2.5	Pass
					4.43	-17.624	-0.0103	-2.5 to 2.5	Pass
				-30	3.85	-36.392	-0.0213	-2.5 to 2.5	Pass
				-20	3.85	-34.747	-0.0203	-2.5 to 2.5	Pass
				-10	3.85	-41.327	-0.0241	-2.5 to 2.5	Pass
				0	3.85	17.166	0.0100	-2.5 to 2.5	Pass
				10	3.85	15.864	0.0093	-2.5 to 2.5	Pass
				30	3.85	17.209	0.0100	-2.5 to 2.5	Pass
				40	3.85	17.924	0.0105	-2.5 to 2.5	Pass
				50	3.85	15.578	0.0091	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-6.309	-0.0036	-2.5 to 2.5	Pass
					3.85	-20.714	-0.0120	-2.5 to 2.5	Pass
					4.43	9.484	0.0055	-2.5 to 2.5	Pass
				-30	3.85	-8.998	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-18.740	-0.0108	-2.5 to 2.5	Pass
				-10	3.85	-26.608	-0.0154	-2.5 to 2.5	Pass
				0	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				10	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				30	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				40	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				50	3.85	2.618	0.0015	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	18.139	0.0104	-2.5 to 2.5	Pass
					3.85	-4.463	-0.0025	-2.5 to 2.5	Pass
					4.43	-5.579	-0.0032	-2.5 to 2.5	Pass
				-30	3.85	-28.310	-0.0162	-2.5 to 2.5	Pass
				-20	3.85	-5.507	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-18.654	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-24.419	-0.0139	-2.5 to 2.5	Pass
				10	3.85	-35.076	-0.0200	-2.5 to 2.5	Pass
				30	3.85	-40.841	-0.0233	-2.5 to 2.5	Pass
				40	3.85	14.219	0.0081	-2.5 to 2.5	Pass
				50	3.85	9.656	0.0055	-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	17.552	0.0102	-2.5 to 2.5	Pass
					3.85	11.158	0.0065	-2.5 to 2.5	Pass
					4.43	-6.638	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	30.041	0.0175	-2.5 to 2.5	Pass
				-20	3.85	14.820	0.0086	-2.5 to 2.5	Pass
				-10	3.85	8.268	0.0048	-2.5 to 2.5	Pass
				0	3.85	10.185	0.0059	-2.5 to 2.5	Pass
				10	3.85	37.494	0.0219	-2.5 to 2.5	Pass
				30	3.85	28.253	0.0165	-2.5 to 2.5	Pass
				40	3.85	-1.945	-0.0011	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.85	16.394	0.0096	-2.5 to 2.5	Pass
					3.27	2.718	0.0016	-2.5 to 2.5	Pass
					4.43	18.096	0.0104	-2.5 to 2.5	Pass
				-30	3.85	19.698	0.0114	-2.5 to 2.5	Pass
				-20	3.85	17.509	0.0101	-2.5 to 2.5	Pass
				-10	3.85	-3.734	-0.0022	-2.5 to 2.5	Pass
				0	3.85	29.140	0.0168	-2.5 to 2.5	Pass
				10	3.85	21.143	0.0122	-2.5 to 2.5	Pass
				30	3.85	12.302	0.0071	-2.5 to 2.5	Pass
				40	3.85	31.157	0.0180	-2.5 to 2.5	Pass
	1750	50	0	20	3.85	7.811	0.0045	-2.5 to 2.5	Pass
					3.85	23.232	0.0134	-2.5 to 2.5	Pass
					3.27	-15.235	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	7.424	0.0042	-2.5 to 2.5	Pass
				-20	3.85	9.627	0.0055	-2.5 to 2.5	Pass
				-10	3.85	31.328	0.0179	-2.5 to 2.5	Pass
				0	3.85	19.455	0.0111	-2.5 to 2.5	Pass
				10	3.85	32.344	0.0185	-2.5 to 2.5	Pass
				30	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				40	3.85	7.181	0.0041	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.85	20.041	0.0115	-2.5 to 2.5	Pass
					3.85	33.231	0.0190	-2.5 to 2.5	Pass
					3.27	-11.430	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	23.789	0.0139	-2.5 to 2.5	Pass
				-20	3.85	-9.756	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-29.969	-0.0175	-2.5 to 2.5	Pass
				0	3.85	-40.870	-0.0238	-2.5 to 2.5	Pass
				10	3.85	-6.351	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-11.644	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-20.127	-0.0117	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.85	-27.738	-0.0162	-2.5 to 2.5	Pass
					3.85	8.841	0.0052	-2.5 to 2.5	Pass
					3.85	9.141	0.0053	-2.5 to 2.5	Pass
				-30	3.85	5.937	0.0035	-2.5 to 2.5	Pass
				-20	3.85	34.690	0.0200	-2.5 to 2.5	Pass
				-10	3.85	-14.033	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-12.345	-0.0071	-2.5 to 2.5	Pass
				10	3.85	-34.218	-0.0198	-2.5 to 2.5	Pass
				30	3.85	-2.675	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-9.255	-0.0053	-2.5 to 2.5	Pass

	1750	50	0	50	3.85	-34.704	-0.0200	-2.5 to 2.5	Pass
				20	3.27	-14.648	-0.0084	-2.5 to 2.5	Pass
					3.85	-22.230	-0.0127	-2.5 to 2.5	Pass
					4.43	-19.083	-0.0109	-2.5 to 2.5	Pass
				-30	3.85	-14.491	-0.0083	-2.5 to 2.5	Pass
				-20	3.85	4.306	0.0025	-2.5 to 2.5	Pass
				-10	3.85	-14.076	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-34.304	-0.0196	-2.5 to 2.5	Pass
				10	3.85	-34.947	-0.0200	-2.5 to 2.5	Pass
				30	3.85	-4.005	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-2.518	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-15.178	-0.0087	-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	22.058	0.0128	-2.5 to 2.5	Pass
					3.85	29.454	0.0171	-2.5 to 2.5	Pass
					4.43	6.495	0.0038	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				-20	3.85	33.102	0.0193	-2.5 to 2.5	Pass
				-10	3.85	18.239	0.0106	-2.5 to 2.5	Pass
				0	3.85	25.520	0.0149	-2.5 to 2.5	Pass
				10	3.85	32.201	0.0187	-2.5 to 2.5	Pass
				30	3.85	25.721	0.0150	-2.5 to 2.5	Pass
				40	3.85	1.559	0.0009	-2.5 to 2.5	Pass
	1732.5	75	0	50	3.85	23.174	0.0135	-2.5 to 2.5	Pass
				20	3.27	2.060	0.0012	-2.5 to 2.5	Pass
					3.85	26.050	0.0150	-2.5 to 2.5	Pass
					4.43	21.830	0.0126	-2.5 to 2.5	Pass
				-30	3.85	17.982	0.0104	-2.5 to 2.5	Pass
				-20	3.85	15.821	0.0091	-2.5 to 2.5	Pass
				-10	3.85	18.082	0.0104	-2.5 to 2.5	Pass
				0	3.85	-8.082	-0.0047	-2.5 to 2.5	Pass
				10	3.85	16.794	0.0097	-2.5 to 2.5	Pass
				30	3.85	32.115	0.0185	-2.5 to 2.5	Pass
	1747.5	75	0	40	3.85	10.901	0.0063	-2.5 to 2.5	Pass
				50	3.85	17.552	0.0101	-2.5 to 2.5	Pass
				20	3.27	-8.011	-0.0046	-2.5 to 2.5	Pass
					3.85	18.368	0.0105	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0025	-2.5 to 2.5	Pass
				-30	3.85	11.358	0.0065	-2.5 to 2.5	Pass
				-20	3.85	16.079	0.0092	-2.5 to 2.5	Pass
				-10	3.85	7.896	0.0045	-2.5 to 2.5	Pass
				0	3.85	4.935	0.0028	-2.5 to 2.5	Pass
				10	3.85	10.901	0.0062	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.85	11.072	0.0063	-2.5 to 2.5	Pass
					3.85	12.102	0.0069	-2.5 to 2.5	Pass
					3.85	13.518	0.0077	-2.5 to 2.5	Pass
				-30	3.85	-1.502	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-28.410	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-32.730	-0.0191	-2.5 to 2.5	Pass
				0	3.85	-43.502	-0.0253	-2.5 to 2.5	Pass

				10	3.85	10.557	0.0061	-2.5 to 2.5	Pass
				30	3.85	6.523	0.0038	-2.5 to 2.5	Pass
				40	3.85	3.934	0.0023	-2.5 to 2.5	Pass
				50	3.85	6.323	0.0037	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	26.193	0.0151	-2.5 to 2.5	Pass
					3.85	-21.772	-0.0126	-2.5 to 2.5	Pass
					4.43	-9.956	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-32.730	-0.0189	-2.5 to 2.5	Pass
				-20	3.85	4.077	0.0024	-2.5 to 2.5	Pass
				-10	3.85	-5.078	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-15.864	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-16.093	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-23.689	-0.0137	-2.5 to 2.5	Pass
				40	3.85	-24.519	-0.0142	-2.5 to 2.5	Pass
				50	3.85	-20.986	-0.0121	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	16.537	0.0095	-2.5 to 2.5	Pass
					3.85	-16.766	-0.0096	-2.5 to 2.5	Pass
					4.43	-16.079	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-7.238	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	2.575	0.0015	-2.5 to 2.5	Pass
				-10	3.85	-14.548	-0.0083	-2.5 to 2.5	Pass
				0	3.85	6.037	0.0035	-2.5 to 2.5	Pass
				10	3.85	13.061	0.0075	-2.5 to 2.5	Pass
				30	3.85	4.849	0.0028	-2.5 to 2.5	Pass
				40	3.85	-5.450	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-9.871	-0.0056	-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	19.598	0.0114	-2.5 to 2.5	Pass
					3.85	23.432	0.0136	-2.5 to 2.5	Pass
					4.43	18.182	0.0106	-2.5 to 2.5	Pass
				-30	3.85	13.561	0.0079	-2.5 to 2.5	Pass
				-20	3.85	6.623	0.0039	-2.5 to 2.5	Pass
				-10	3.85	14.033	0.0082	-2.5 to 2.5	Pass
				0	3.85	22.860	0.0133	-2.5 to 2.5	Pass
				10	3.85	23.146	0.0135	-2.5 to 2.5	Pass
				30	3.85	13.261	0.0077	-2.5 to 2.5	Pass
				40	3.85	34.475	0.0200	-2.5 to 2.5	Pass
				50	3.85	-8.597	-0.0050	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	9.055	0.0052	-2.5 to 2.5	Pass
					3.85	22.573	0.0130	-2.5 to 2.5	Pass
					4.43	14.505	0.0084	-2.5 to 2.5	Pass
				-30	3.85	18.497	0.0107	-2.5 to 2.5	Pass
				-20	3.85	14.076	0.0081	-2.5 to 2.5	Pass
				-10	3.85	7.725	0.0045	-2.5 to 2.5	Pass
				0	3.85	13.919	0.0080	-2.5 to 2.5	Pass
				10	3.85	31.385	0.0181	-2.5 to 2.5	Pass
				30	3.85	21.944	0.0127	-2.5 to 2.5	Pass
				40	3.85	29.368	0.0170	-2.5 to 2.5	Pass
				50	3.85	9.098	0.0053	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-25.420	-0.0146	-2.5 to 2.5	Pass
					3.85	14.691	0.0084	-2.5 to 2.5	Pass
					4.43	20.256	0.0116	-2.5 to 2.5	Pass
				-30	3.85	13.847	0.0079	-2.5 to 2.5	Pass

				-20	3.85	15.922	0.0091	-2.5 to 2.5	Pass	
				-10	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass	
				0	3.85	15.535	0.0089	-2.5 to 2.5	Pass	
				10	3.85	25.864	0.0148	-2.5 to 2.5	Pass	
				30	3.85	30.055	0.0172	-2.5 to 2.5	Pass	
				40	3.85	14.262	0.0082	-2.5 to 2.5	Pass	
				50	3.85	4.292	0.0025	-2.5 to 2.5	Pass	
16QAM	1720	100	0	20	3.27	8.311	0.0048	-2.5 to 2.5	Pass	
					3.85	-42.100	-0.0245	-2.5 to 2.5	Pass	
					4.43	-5.035	-0.0029	-2.5 to 2.5	Pass	
				-30	3.85	-21.286	-0.0124	-2.5 to 2.5	Pass	
				-20	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass	
				-10	3.85	-7.710	-0.0045	-2.5 to 2.5	Pass	
				0	3.85	-11.258	-0.0065	-2.5 to 2.5	Pass	
				10	3.85	-19.813	-0.0115	-2.5 to 2.5	Pass	
				30	3.85	-34.504	-0.0201	-2.5 to 2.5	Pass	
				40	3.85	-31.743	-0.0185	-2.5 to 2.5	Pass	
	50	3.85	-30.069	-0.0175	-2.5 to 2.5	Pass				
				0	20	3.27	6.208	0.0036	-2.5 to 2.5	Pass
						3.85	-28.596	-0.0165	-2.5 to 2.5	Pass
						4.43	-16.794	-0.0097	-2.5 to 2.5	Pass
					-30	3.85	-12.889	-0.0074	-2.5 to 2.5	Pass
					-20	3.85	-21.529	-0.0124	-2.5 to 2.5	Pass
					-10	3.85	-22.187	-0.0128	-2.5 to 2.5	Pass
					0	3.85	-11.101	-0.0064	-2.5 to 2.5	Pass
					10	3.85	-18.969	-0.0109	-2.5 to 2.5	Pass
					30	3.85	-22.459	-0.0130	-2.5 to 2.5	Pass
					40	3.85	-29.182	-0.0168	-2.5 to 2.5	Pass
	50	3.85	-31.328	-0.0181	-2.5 to 2.5	Pass				
				0	20	3.27	1.073	0.0006	-2.5 to 2.5	Pass
						3.85	-11.044	-0.0063	-2.5 to 2.5	Pass
						4.43	-23.775	-0.0136	-2.5 to 2.5	Pass
					-30	3.85	-8.740	-0.0050	-2.5 to 2.5	Pass
					-20	3.85	-23.518	-0.0135	-2.5 to 2.5	Pass
					-10	3.85	6.566	0.0038	-2.5 to 2.5	Pass
					0	3.85	-15.478	-0.0089	-2.5 to 2.5	Pass
					10	3.85	-22.602	-0.0130	-2.5 to 2.5	Pass
30					3.85	-31.571	-0.0181	-2.5 to 2.5	Pass	
40					3.85	-30.670	-0.0176	-2.5 to 2.5	Pass	
50	3.85	-38.195	-0.0219	-2.5 to 2.5	Pass					

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTV						
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

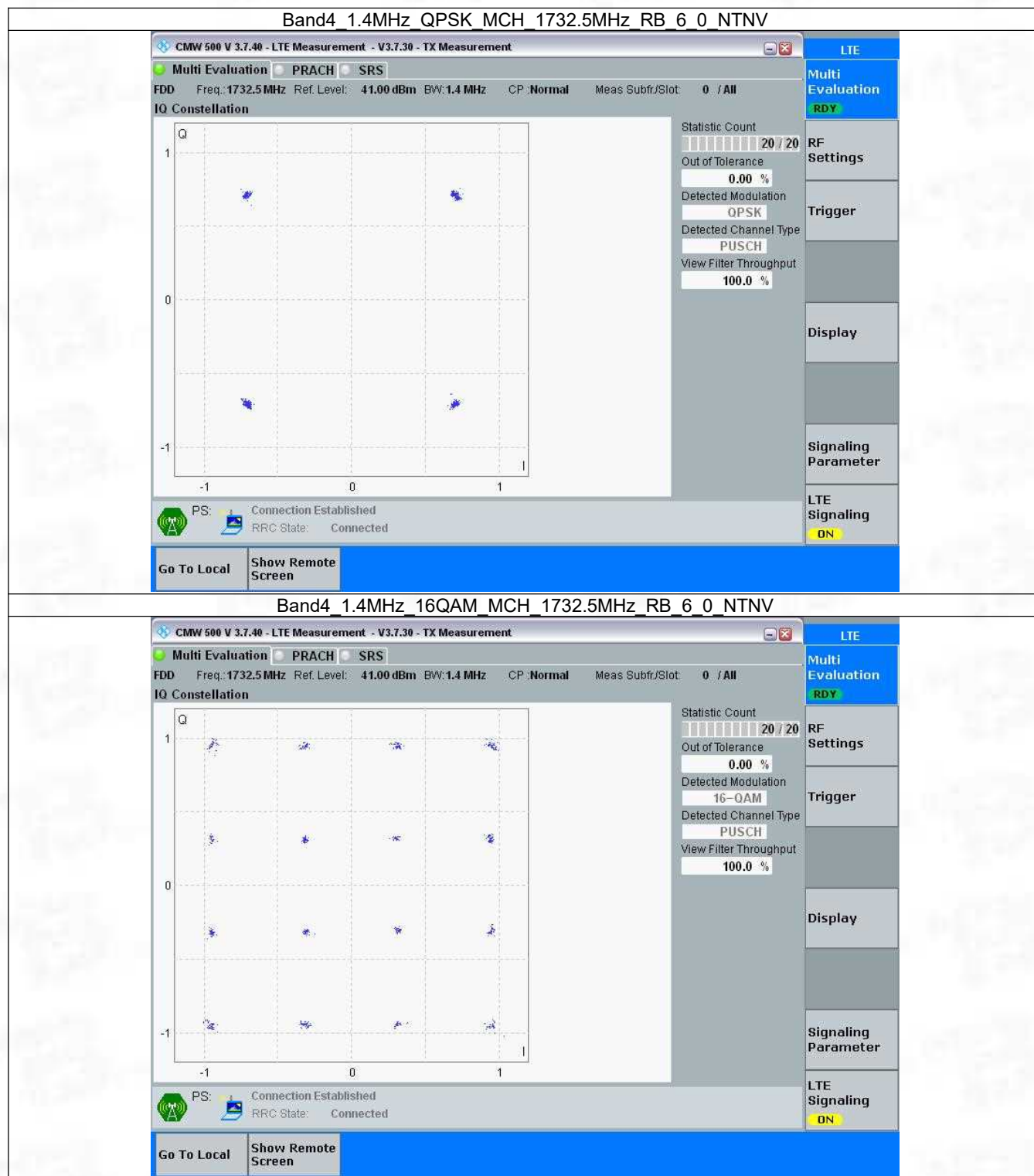
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

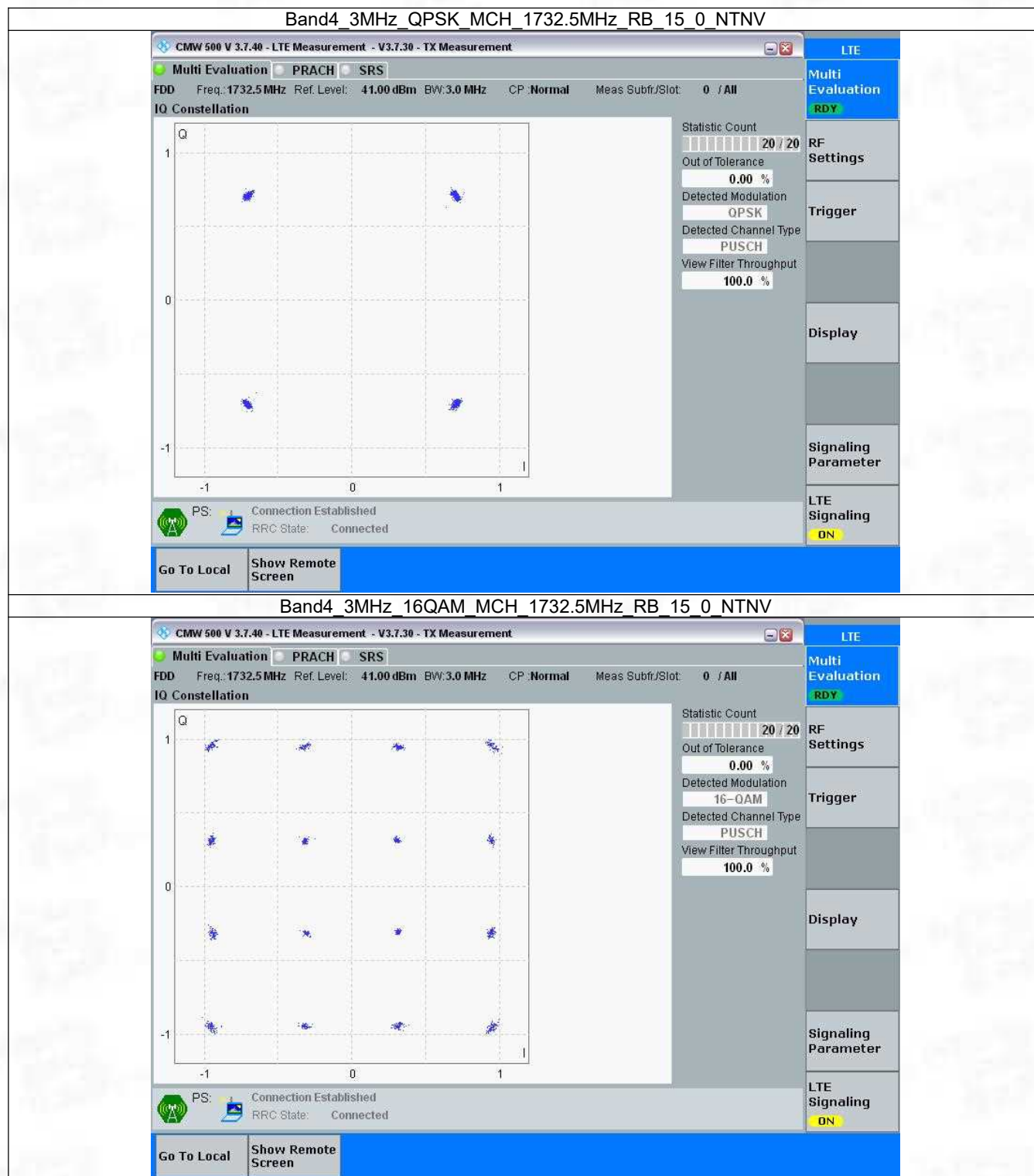
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

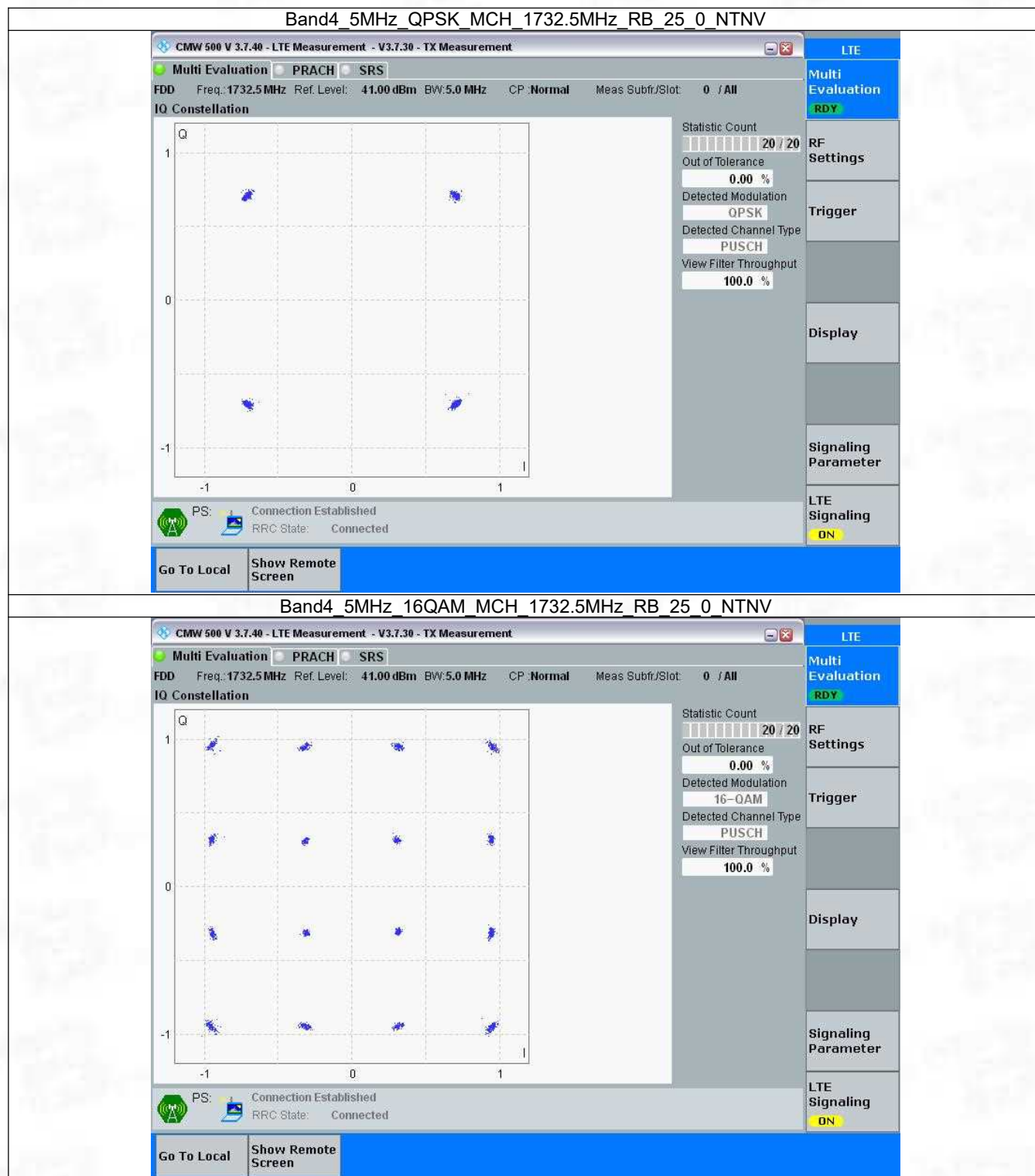
3.2.1 B4_1.4MHz



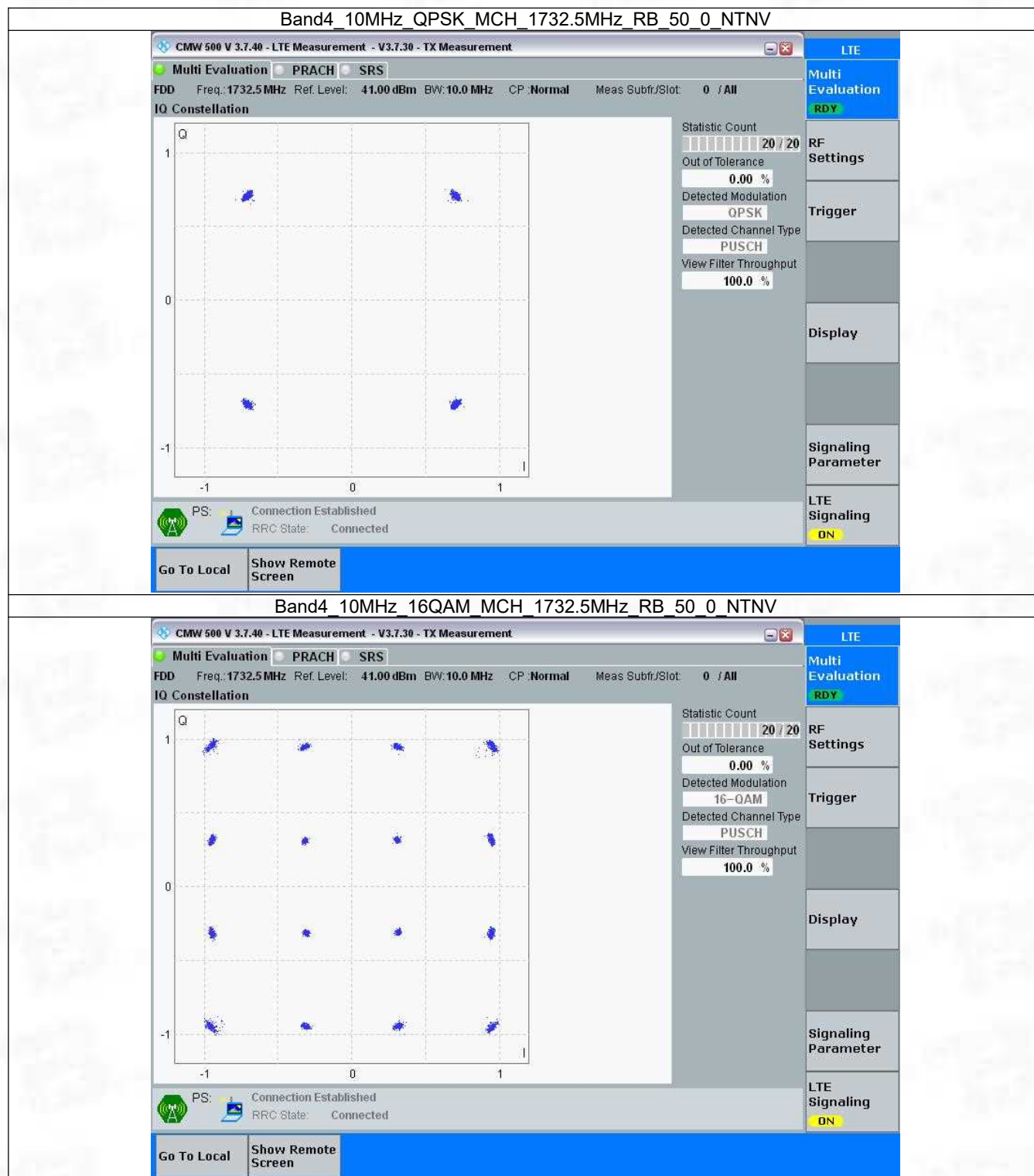
3.2.2 B4_3MHz



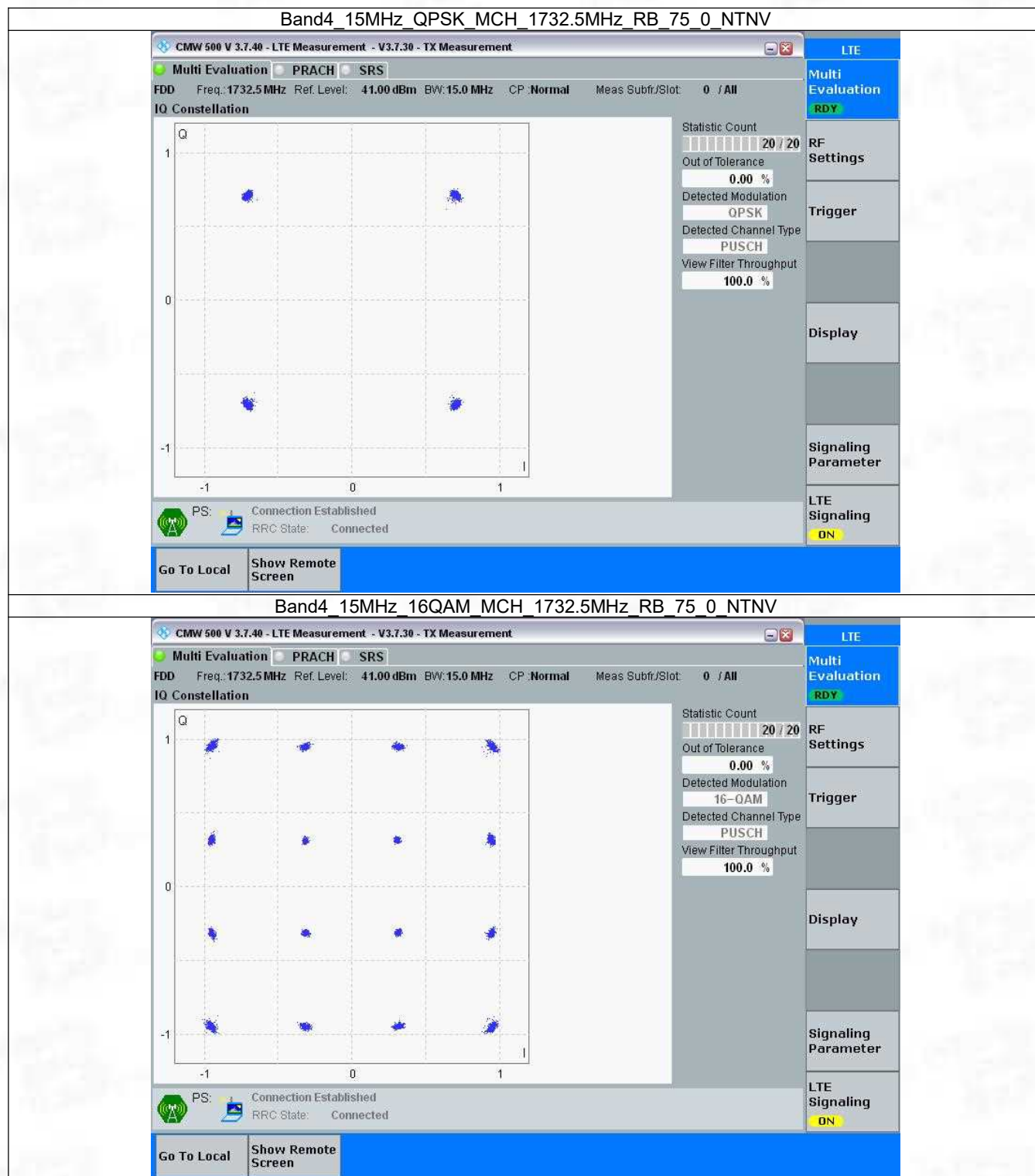
3.2.3 B4_5MHz



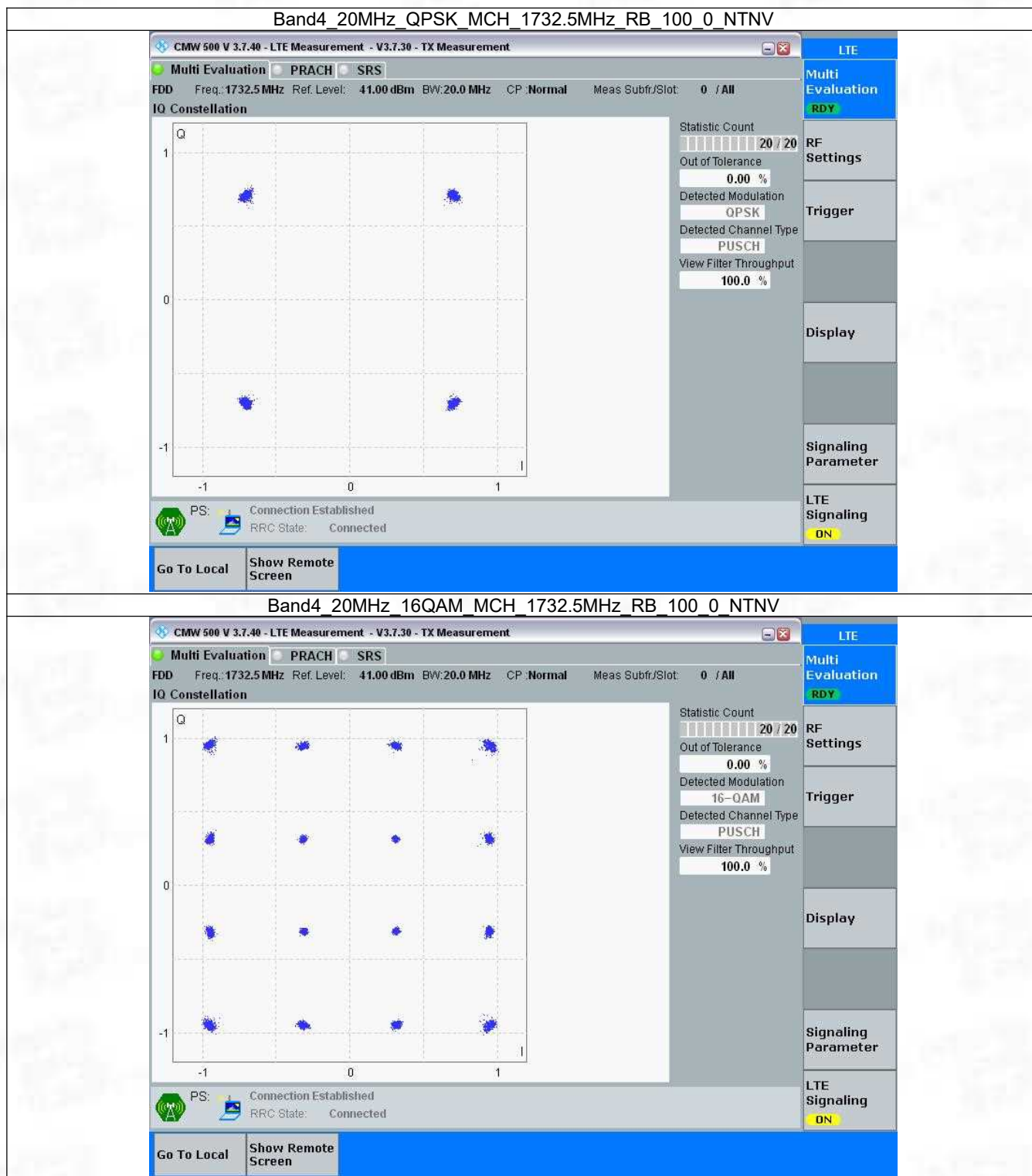
3.2.4 B4_10MHz



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	1.087	/	Pass
		1732.5	6	0	1.086	/	Pass
		1754.3	6	0	1.086	/	Pass
	16QAM	1710.7	6	0	1.094	/	Pass
		1732.5	6	0	1.083	/	Pass
		1754.3	6	0	1.091	/	Pass
3	QPSK	1711.5	15	0	2.691	/	Pass
		1732.5	15	0	2.696	/	Pass
		1753.5	15	0	2.691	/	Pass
	16QAM	1711.5	15	0	2.690	/	Pass
		1732.5	15	0	2.695	/	Pass
		1753.5	15	0	2.683	/	Pass
5	QPSK	1712.5	25	0	4.509	/	Pass
		1732.5	25	0	4.512	/	Pass
		1752.5	25	0	4.541	/	Pass
	16QAM	1712.5	25	0	4.549	/	Pass
		1732.5	25	0	4.535	/	Pass
		1752.5	25	0	4.521	/	Pass
10	QPSK	1715	50	0	8.981	/	Pass
		1732.5	50	0	8.961	/	Pass
		1750	50	0	8.967	/	Pass
	16QAM	1715	50	0	8.973	/	Pass
		1732.5	50	0	8.964	/	Pass
		1750	50	0	8.965	/	Pass
15	QPSK	1717.5	75	0	13.442	/	Pass
		1732.5	75	0	13.417	/	Pass
		1747.5	75	0	13.469	/	Pass
	16QAM	1717.5	75	0	13.469	/	Pass
		1732.5	75	0	13.484	/	Pass
		1747.5	75	0	13.497	/	Pass
20	QPSK	1720	100	0	17.922	/	Pass
		1732.5	100	0	17.909	/	Pass
		1745	100	0	17.944	/	Pass
	16QAM	1720	100	0	17.930	/	Pass
		1732.5	100	0	17.954	/	Pass
		1745	100	0	17.912	/	Pass

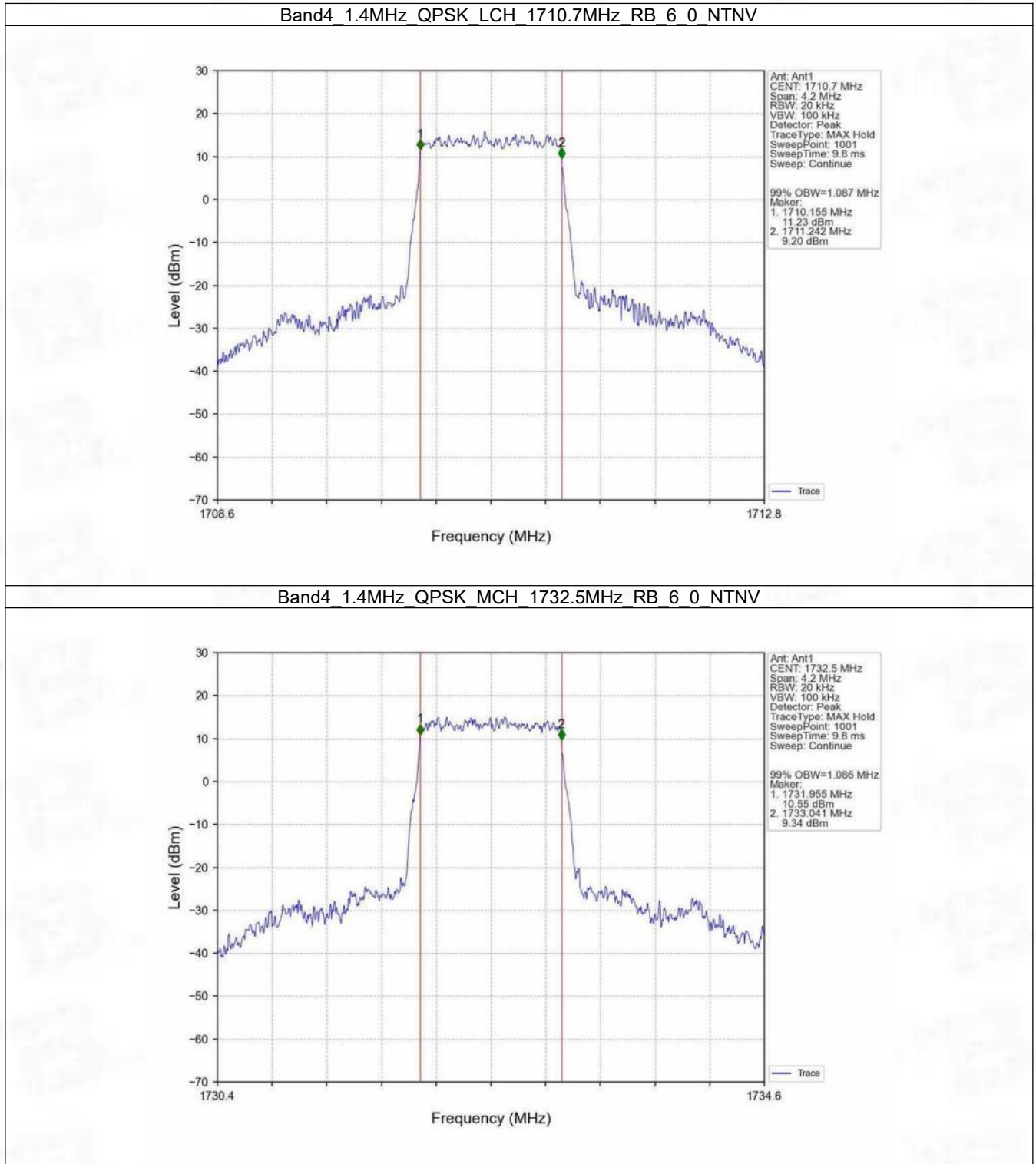
4.1.2 Band4_XDB

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	1.231	/	Pass
		1732.5	6	0	1.243	/	Pass
		1754.3	6	0	1.231	/	Pass

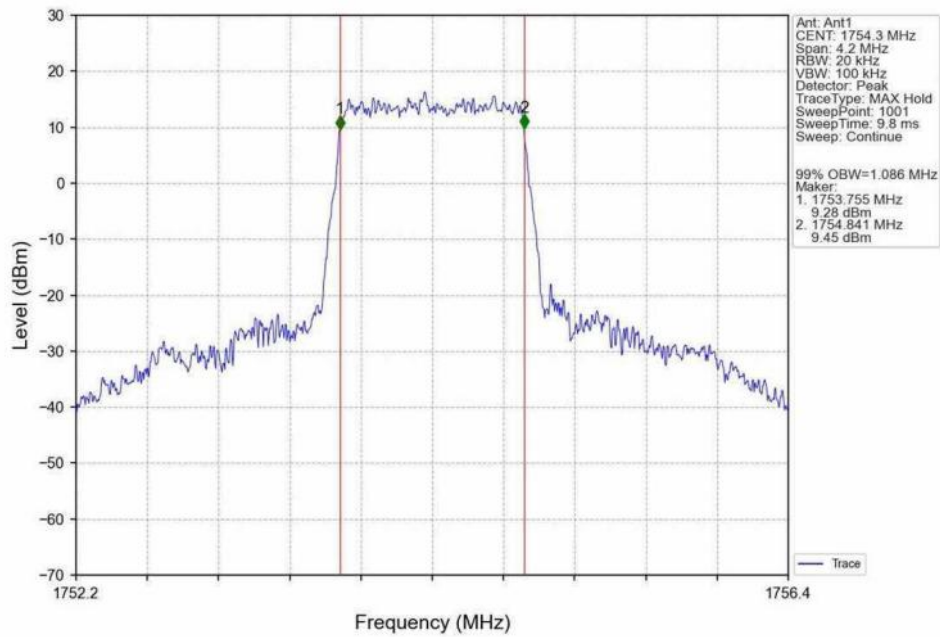
	16QAM	1710.7	6	0	1.241	/	Pass
		1732.5	6	0	1.235	/	Pass
		1754.3	6	0	1.240	/	Pass
3	QPSK	1711.5	15	0	2.995	/	Pass
		1732.5	15	0	2.974	/	Pass
		1753.5	15	0	2.982	/	Pass
	16QAM	1711.5	15	0	3.000	/	Pass
		1732.5	15	0	2.984	/	Pass
		1753.5	15	0	2.983	/	Pass
5	QPSK	1712.5	25	0	4.969	/	Pass
		1732.5	25	0	4.974	/	Pass
		1752.5	25	0	4.993	/	Pass
	16QAM	1712.5	25	0	5.013	/	Pass
		1732.5	25	0	5.029	/	Pass
		1752.5	25	0	4.992	/	Pass
10	QPSK	1715	50	0	9.799	/	Pass
		1732.5	50	0	9.716	/	Pass
		1750	50	0	9.757	/	Pass
	16QAM	1715	50	0	9.849	/	Pass
		1732.5	50	0	9.682	/	Pass
		1750	50	0	9.808	/	Pass
15	QPSK	1717.5	75	0	14.899	/	Pass
		1732.5	75	0	14.785	/	Pass
		1747.5	75	0	14.658	/	Pass
	16QAM	1717.5	75	0	14.772	/	Pass
		1732.5	75	0	14.816	/	Pass
		1747.5	75	0	14.828	/	Pass
20	QPSK	1720	100	0	19.566	/	Pass
		1732.5	100	0	19.458	/	Pass
		1745	100	0	19.373	/	Pass
	16QAM	1720	100	0	19.478	/	Pass
		1732.5	100	0	19.579	/	Pass
		1745	100	0	19.416	/	Pass

4.2 Test Graph

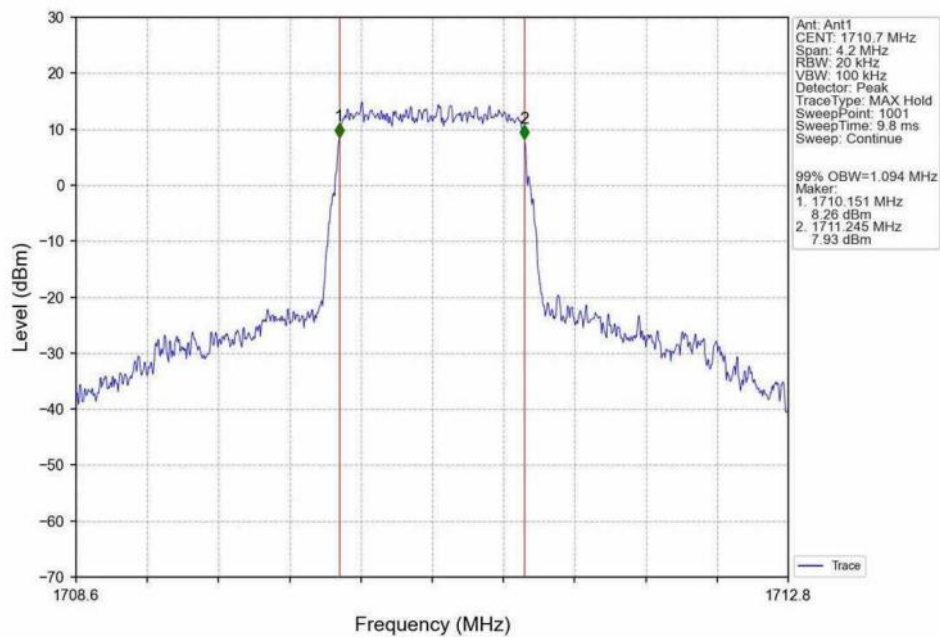
4.2.1 Band4_OBW



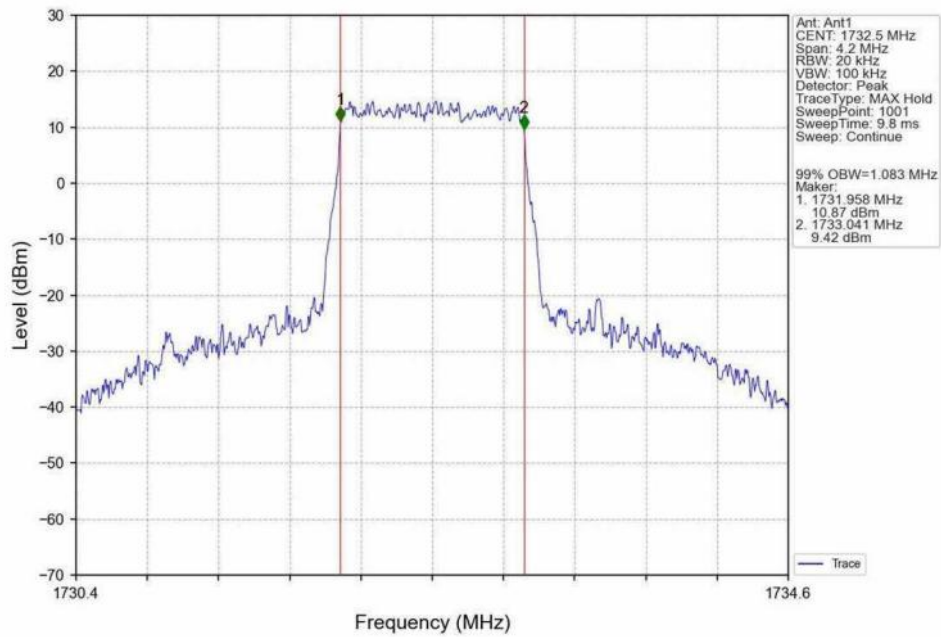
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



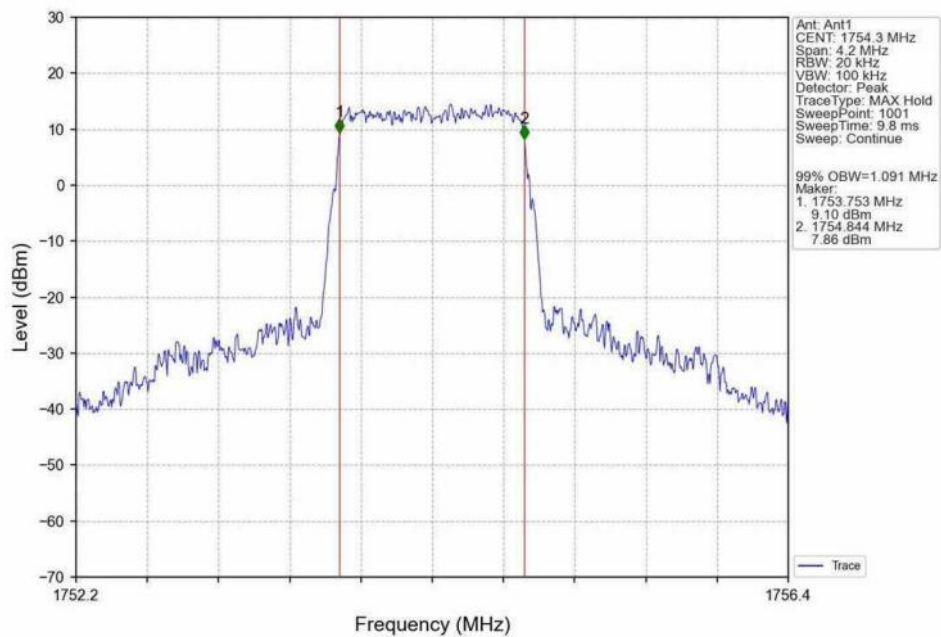
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



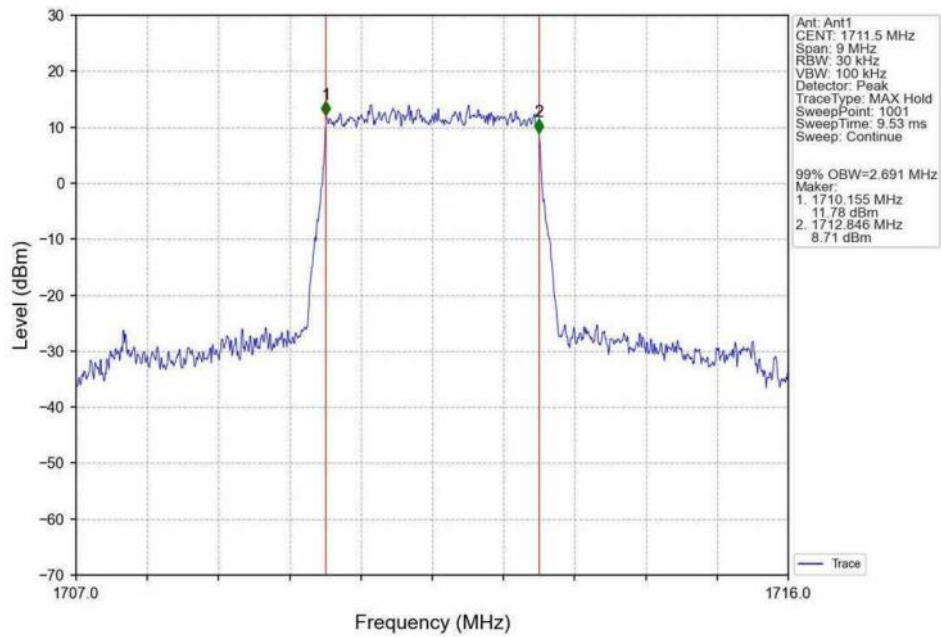
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



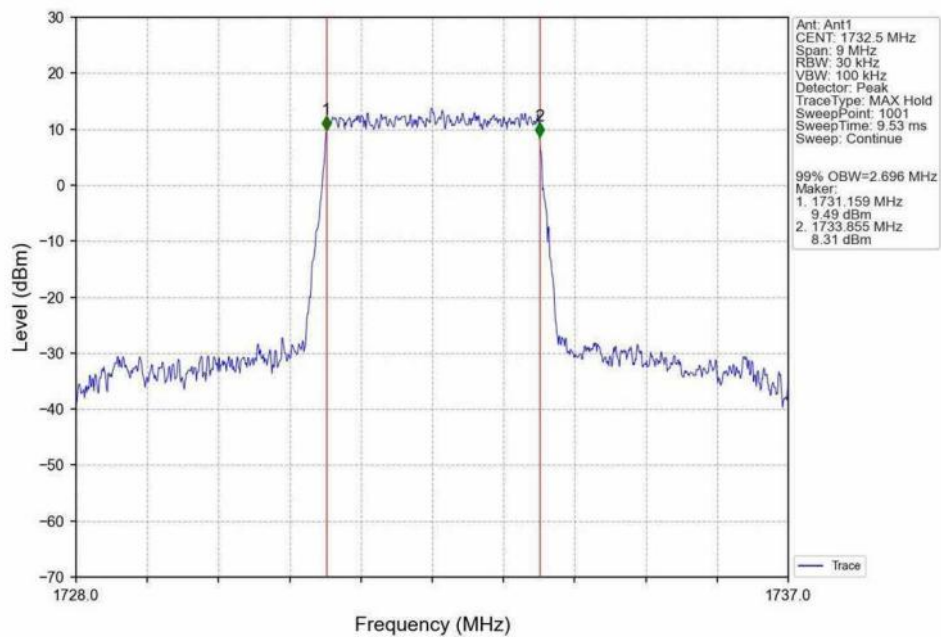
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



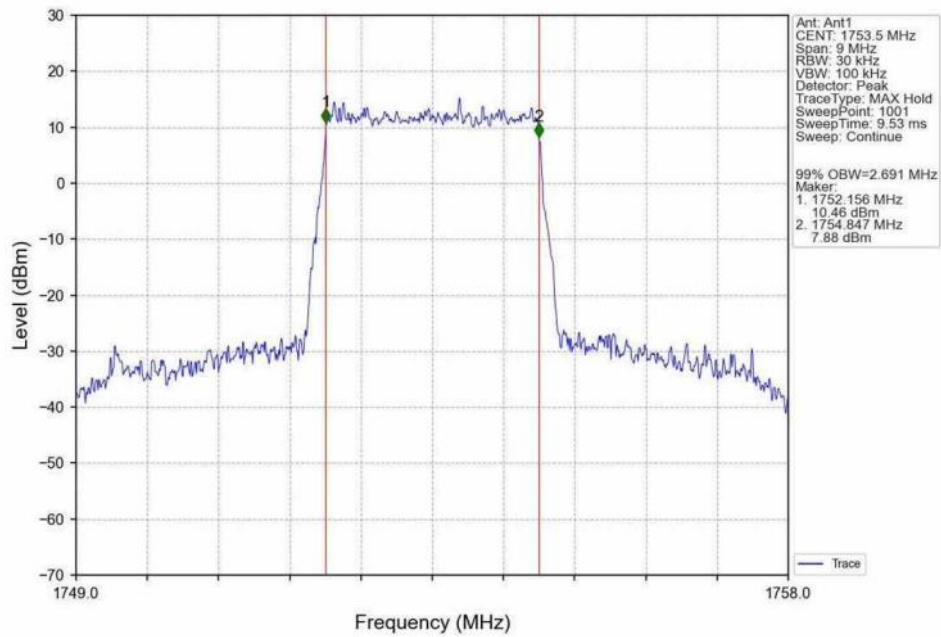
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



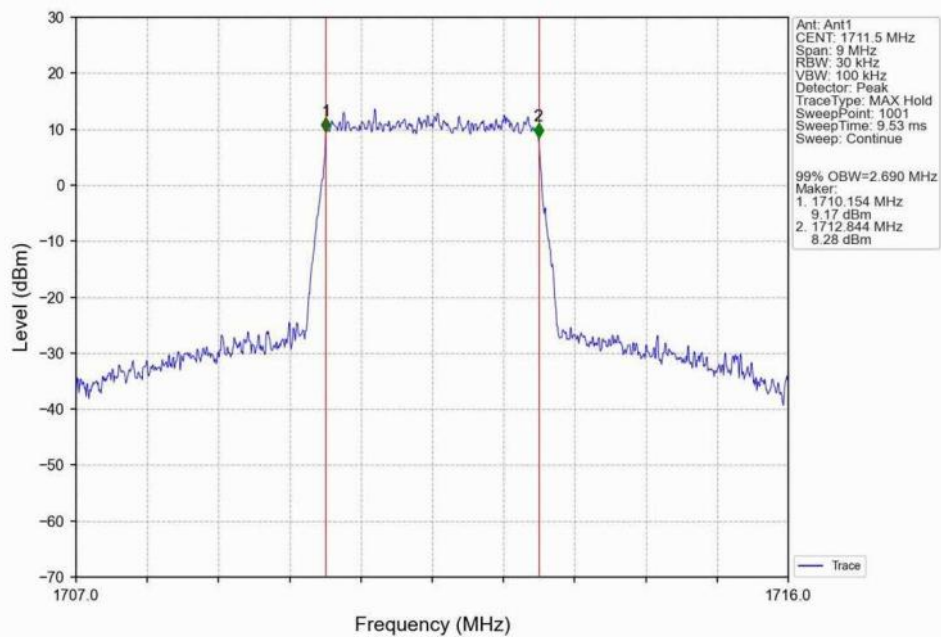
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



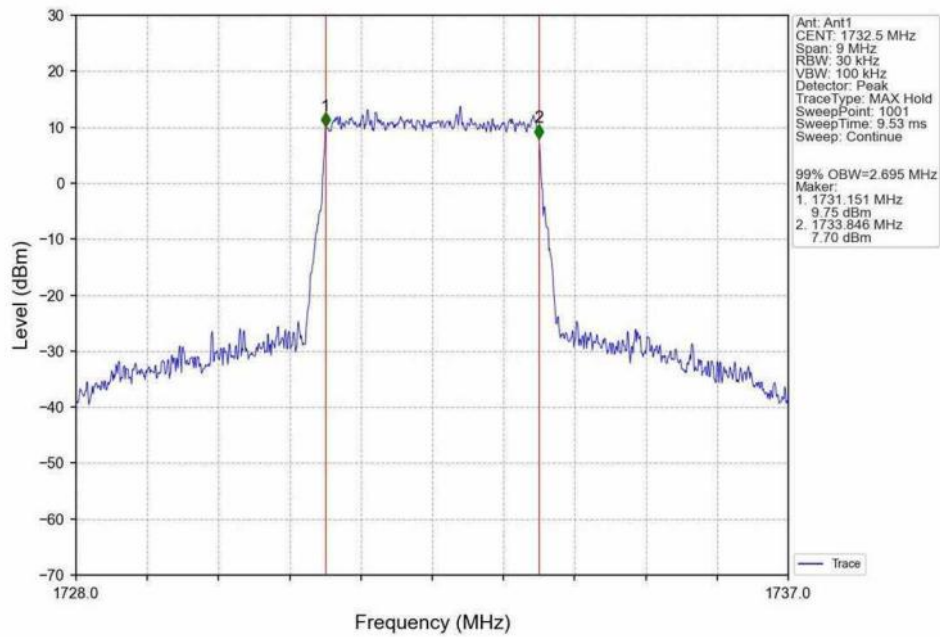
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



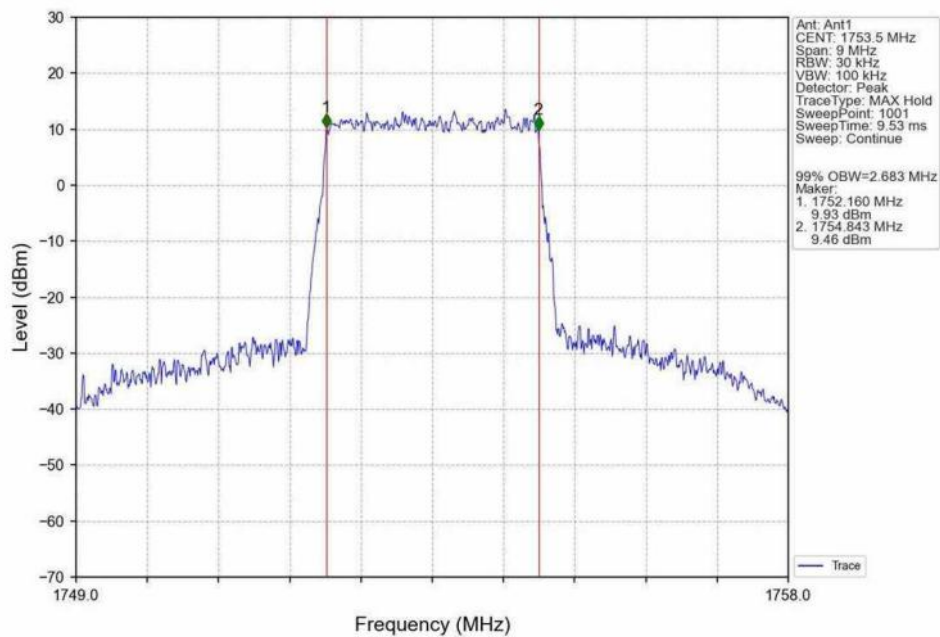
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



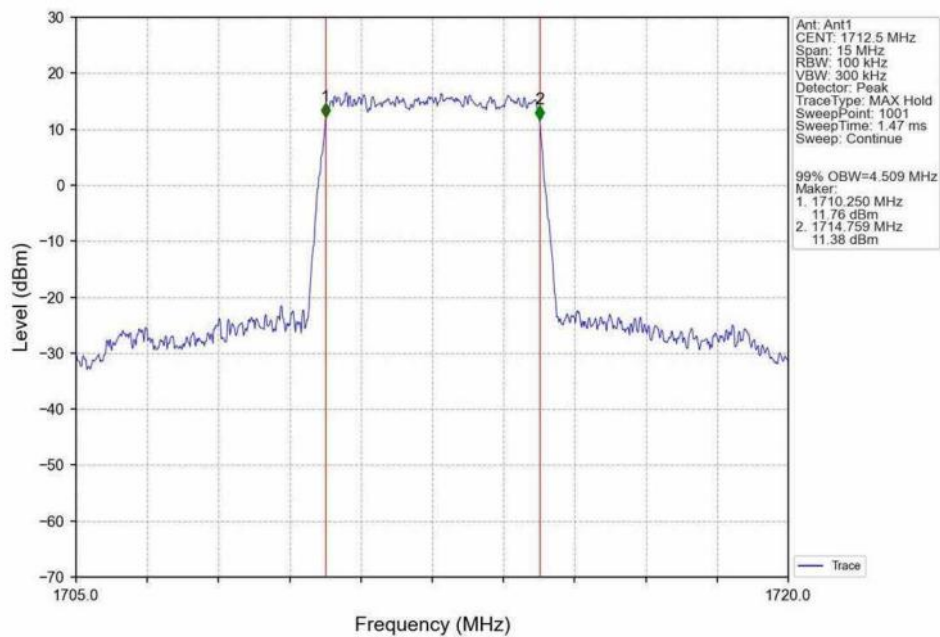
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



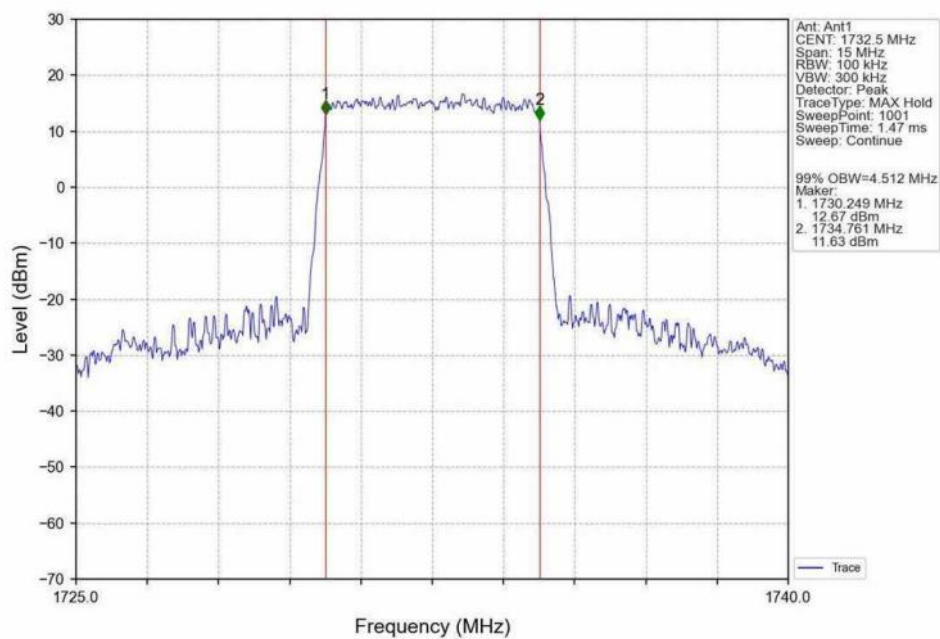
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



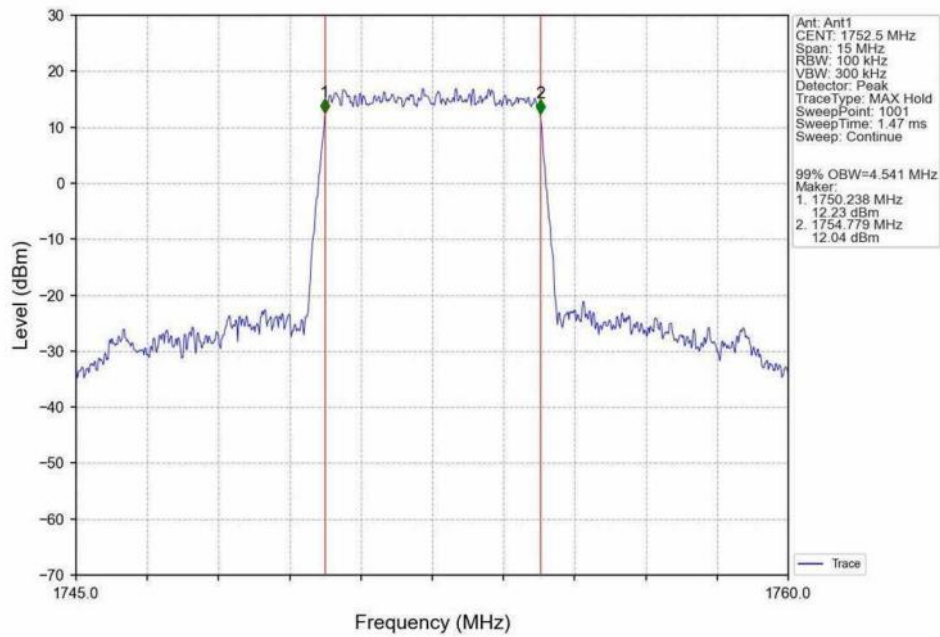
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



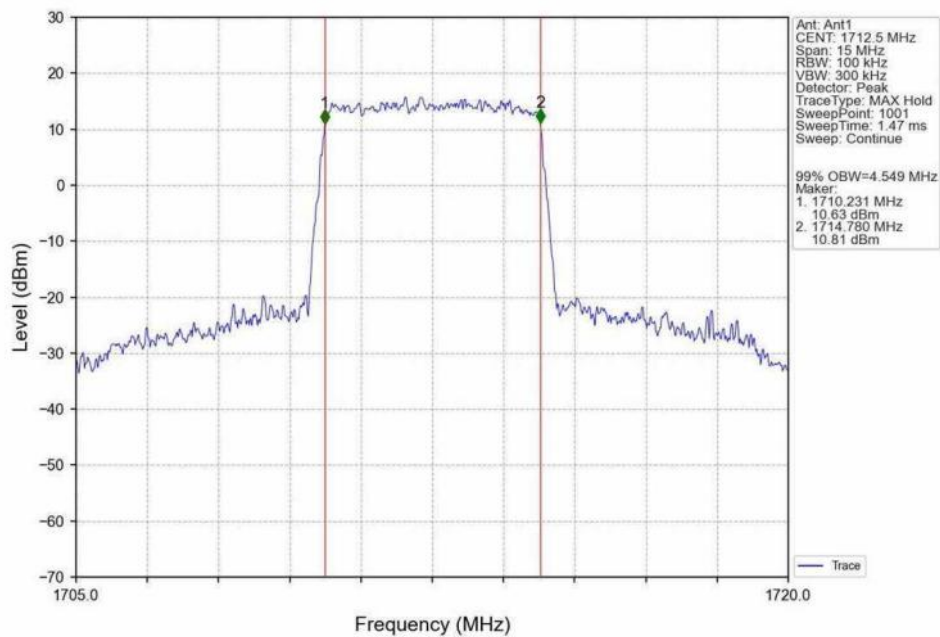
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



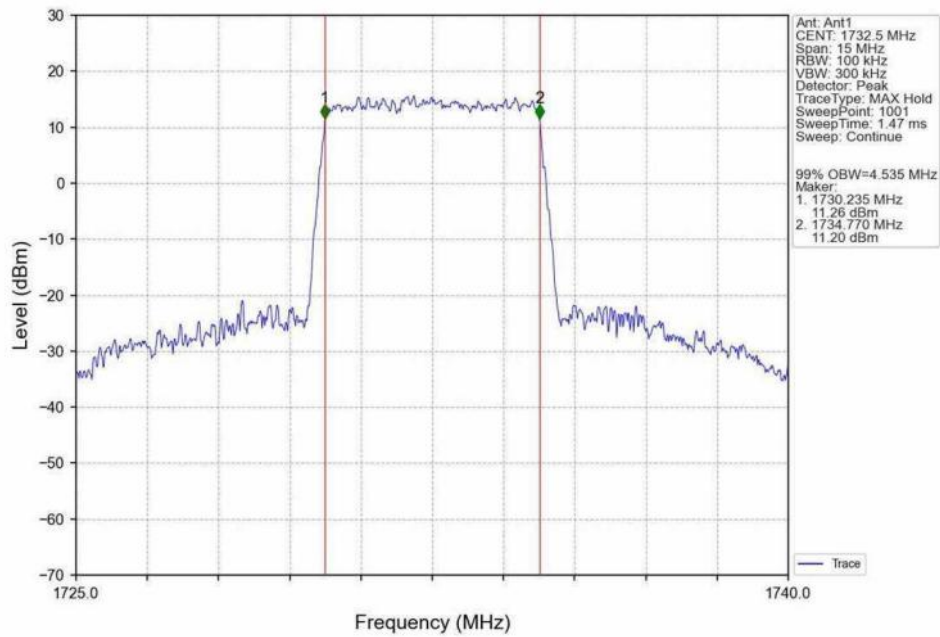
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



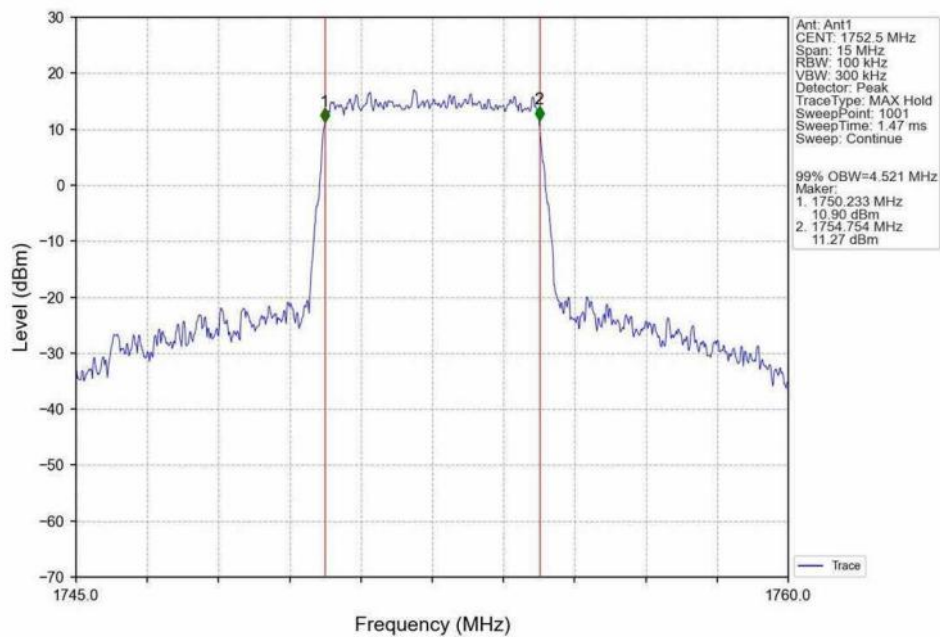
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



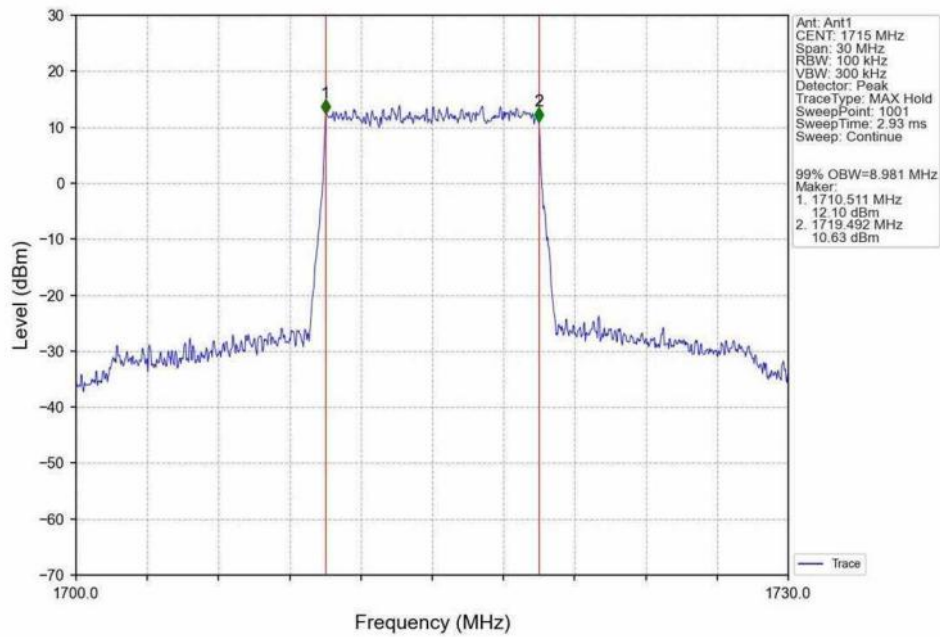
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



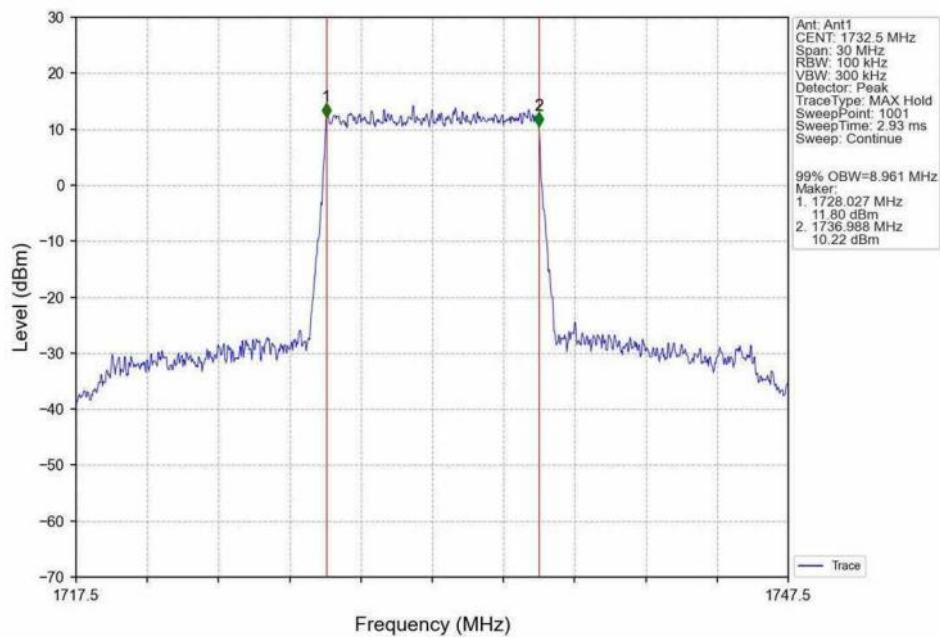
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



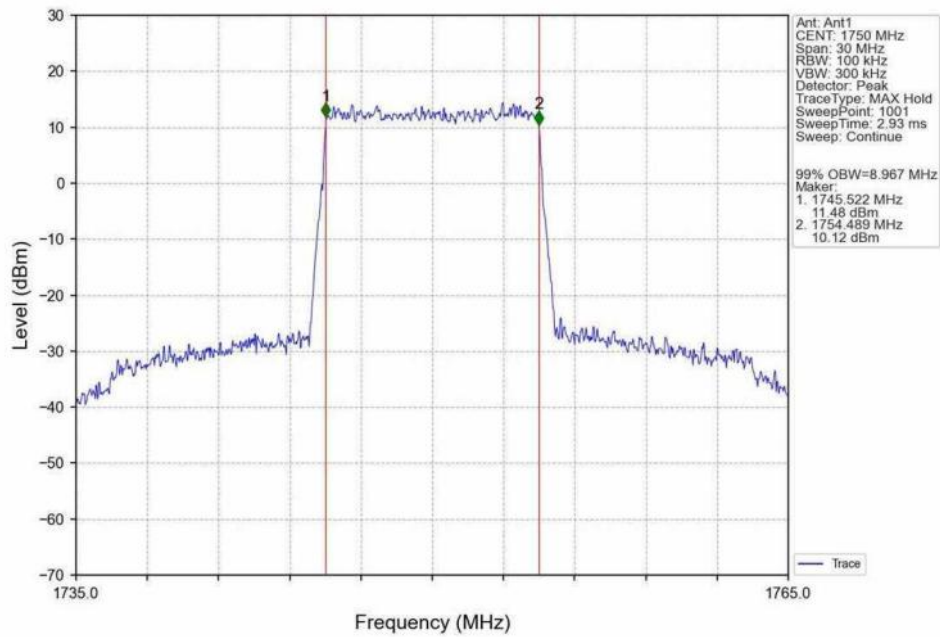
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



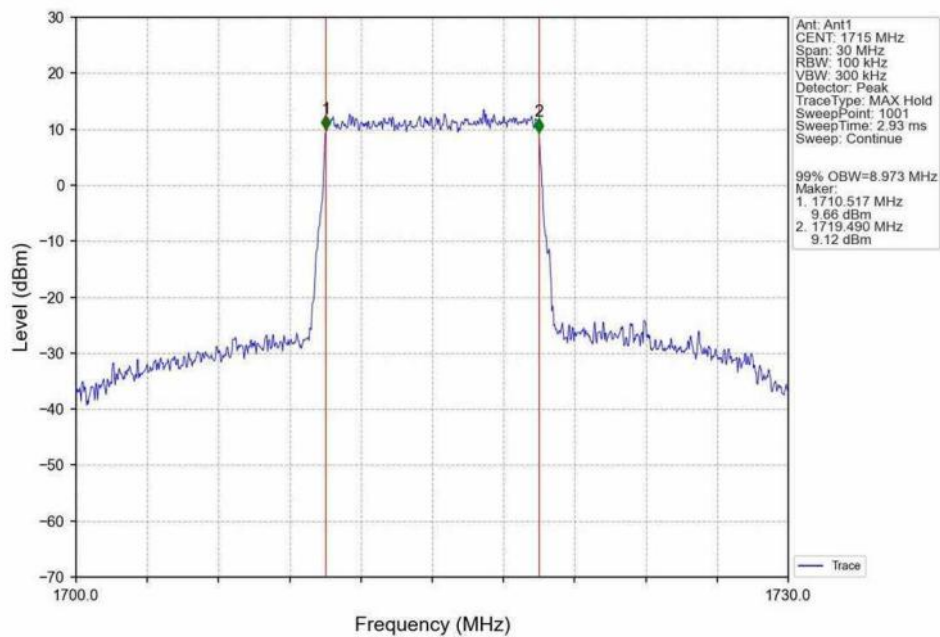
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



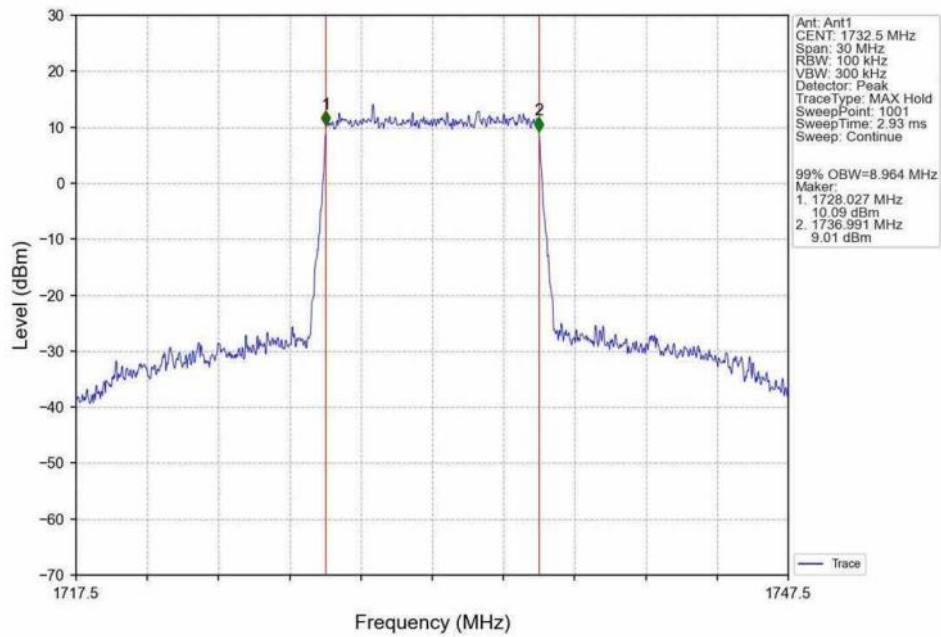
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



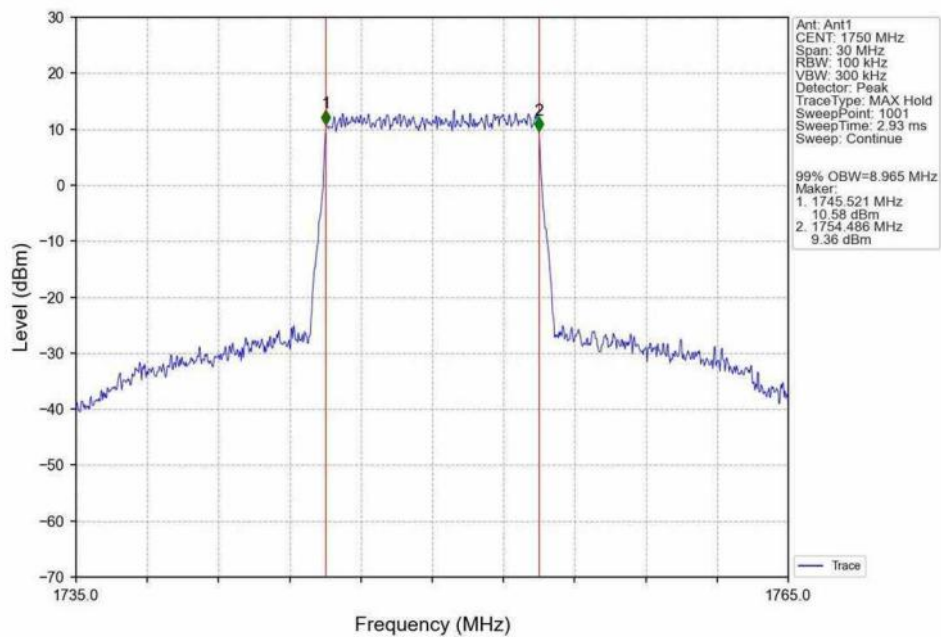
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



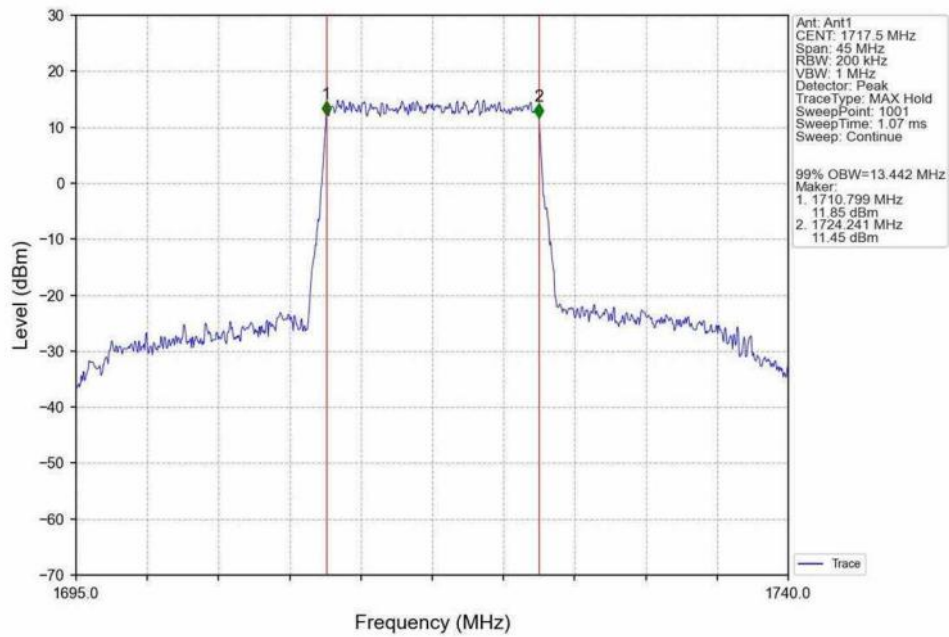
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



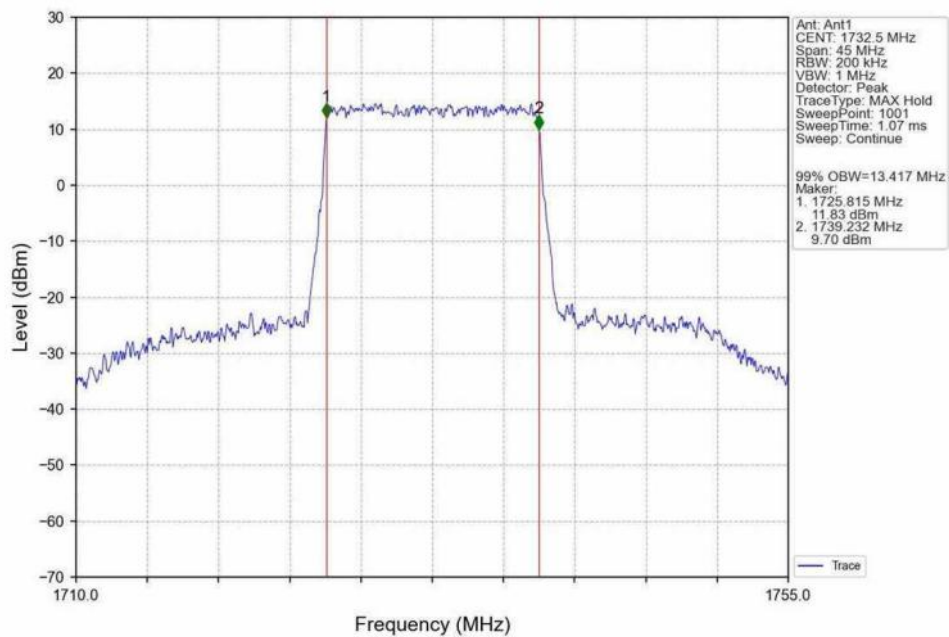
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



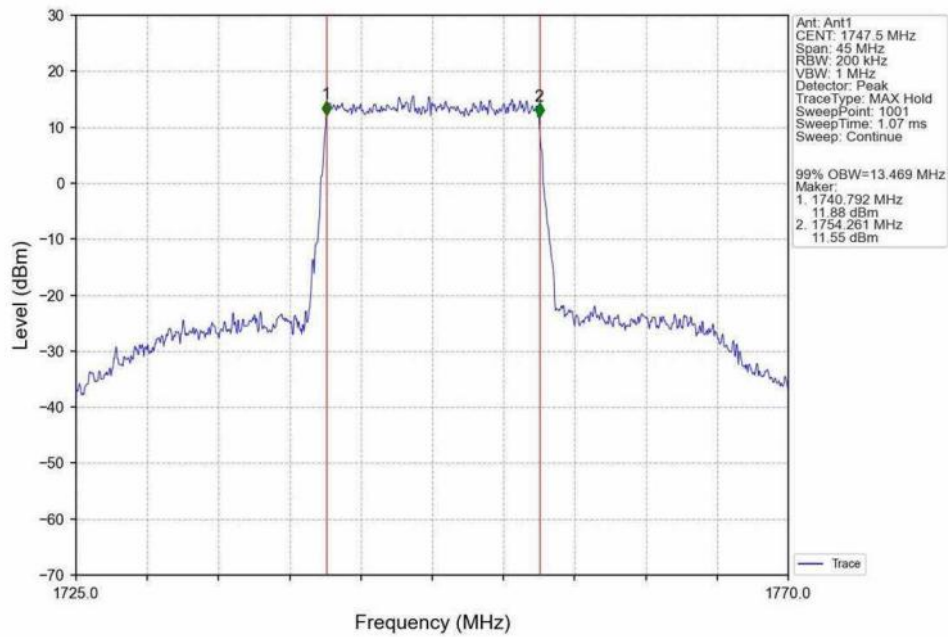
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



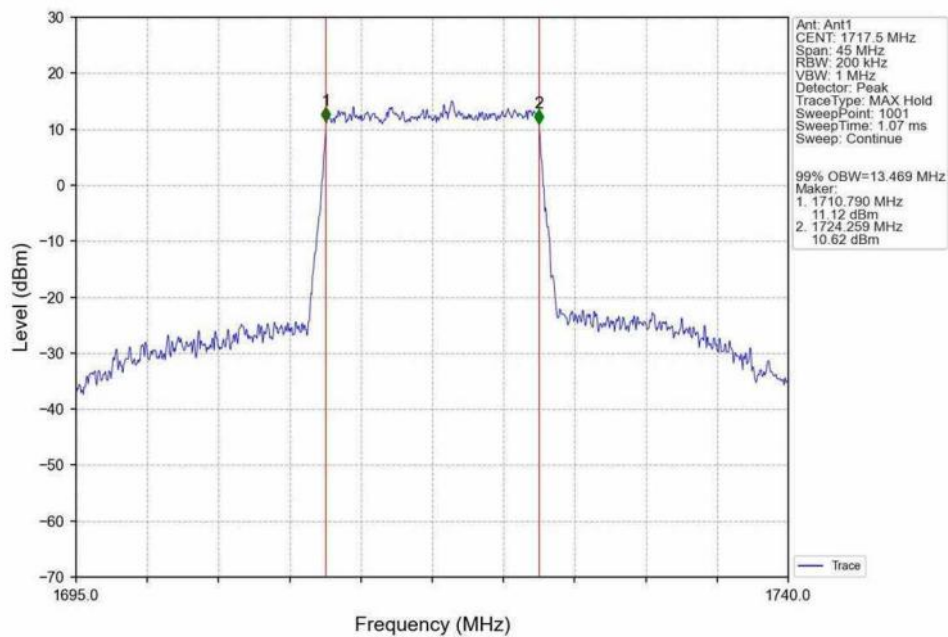
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



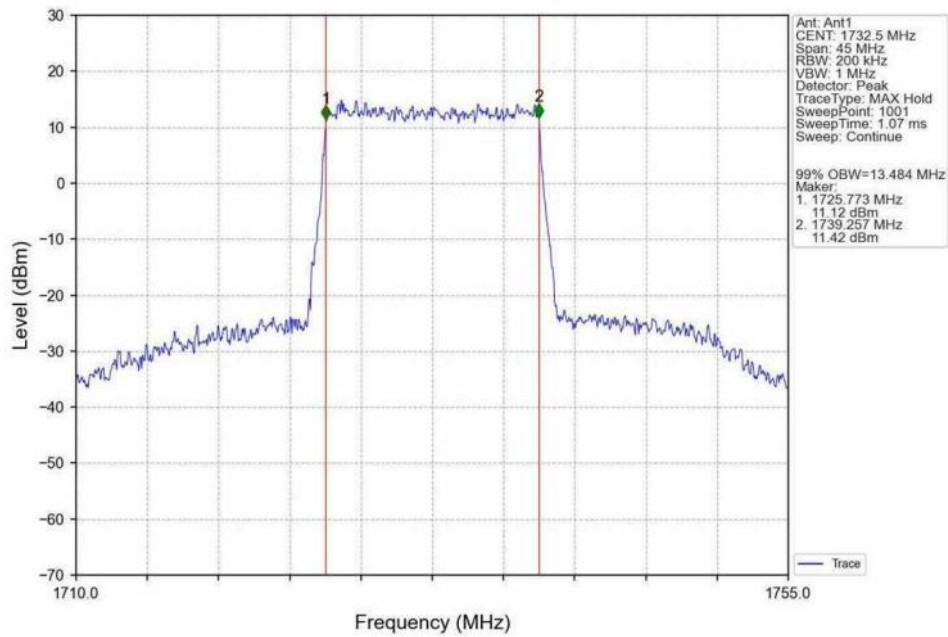
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



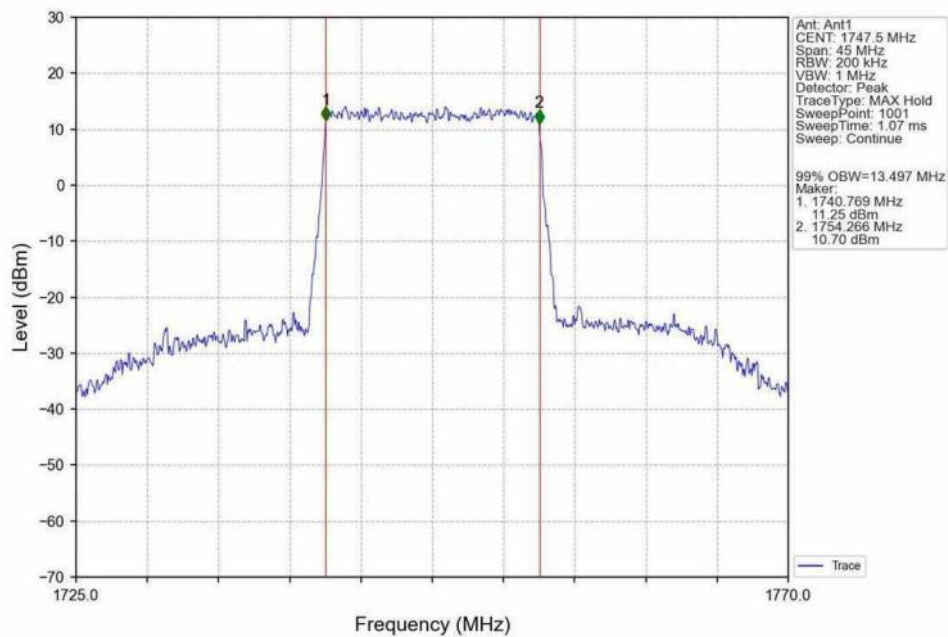
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



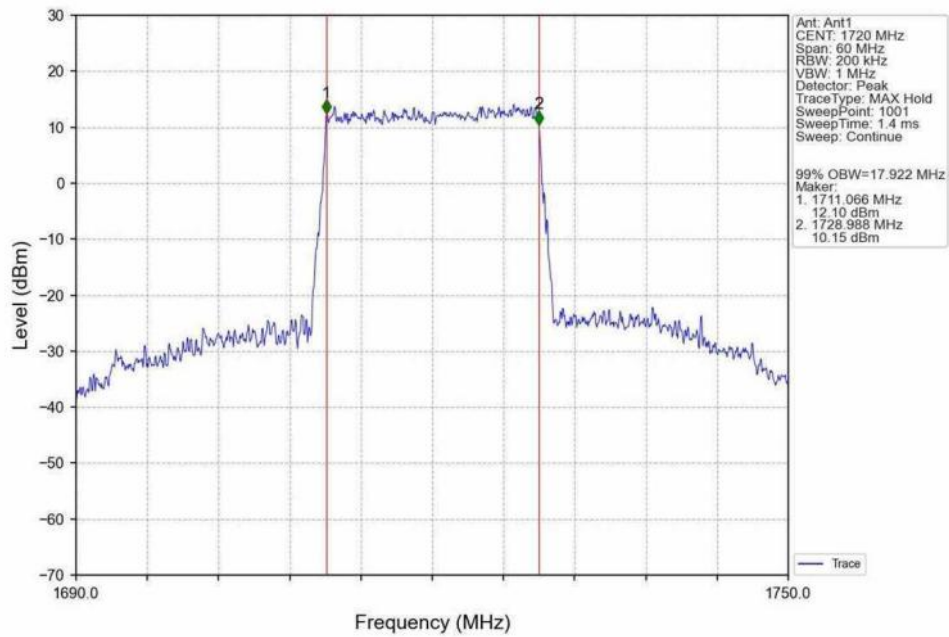
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



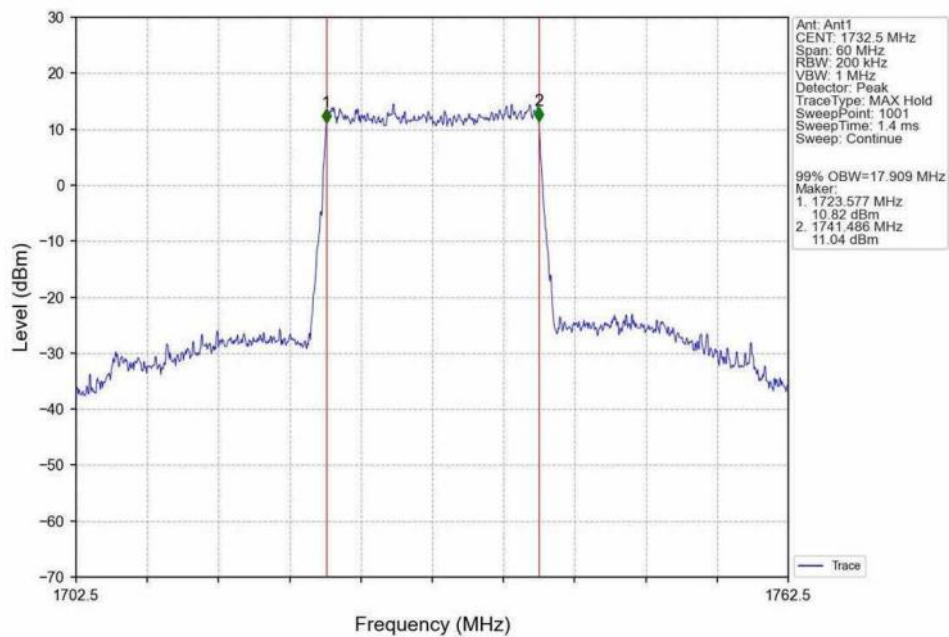
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



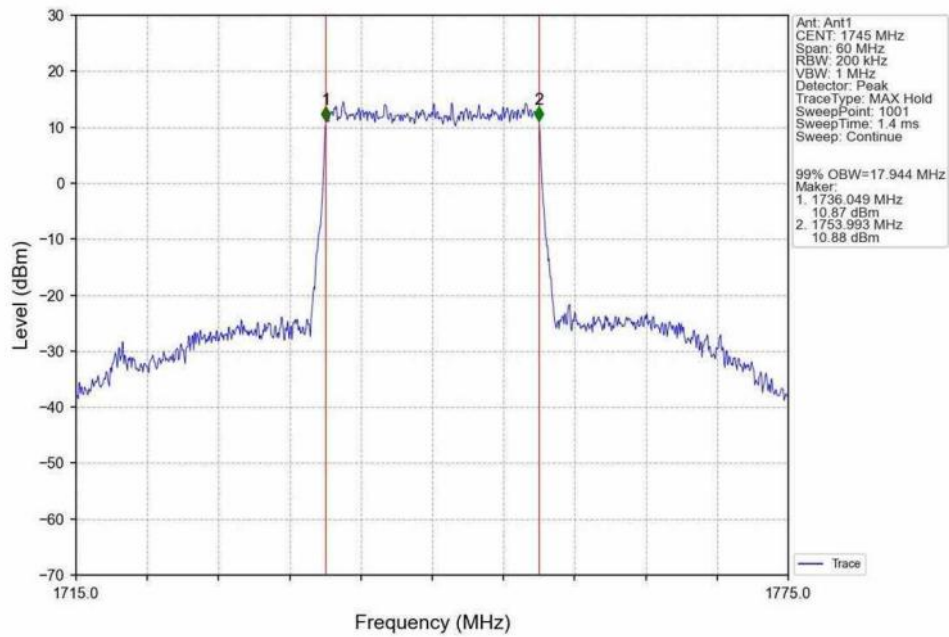
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



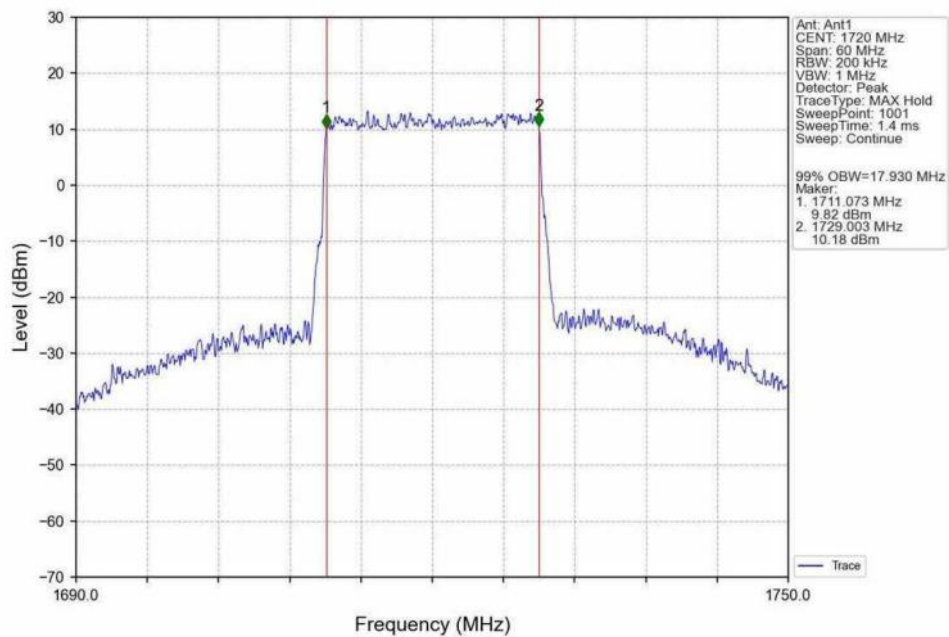
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



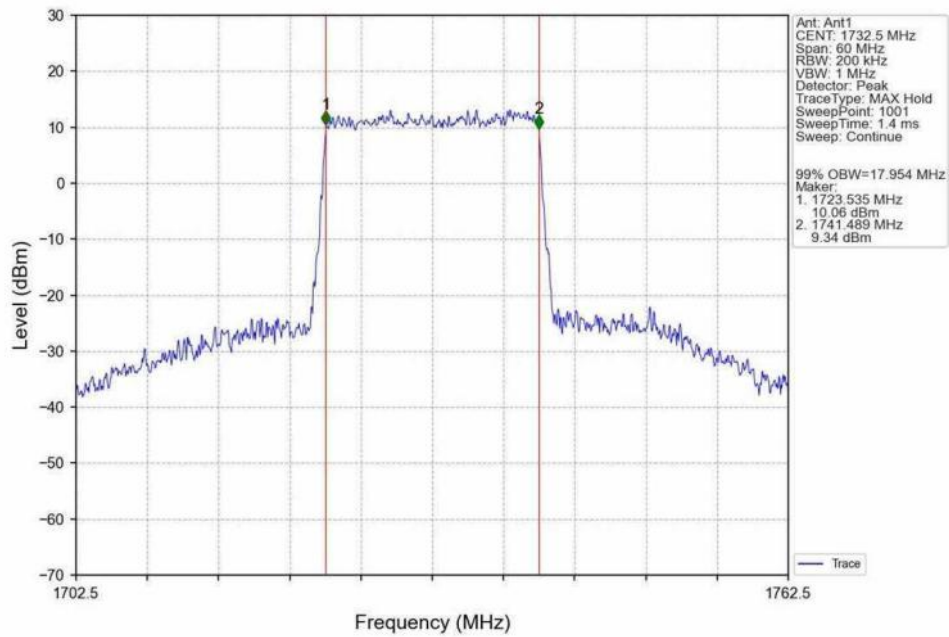
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



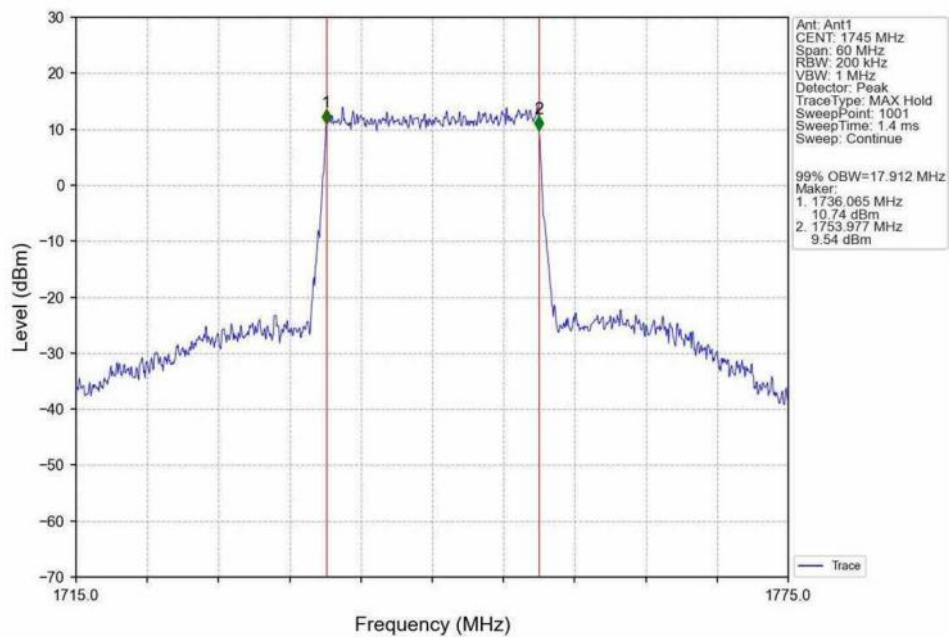
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



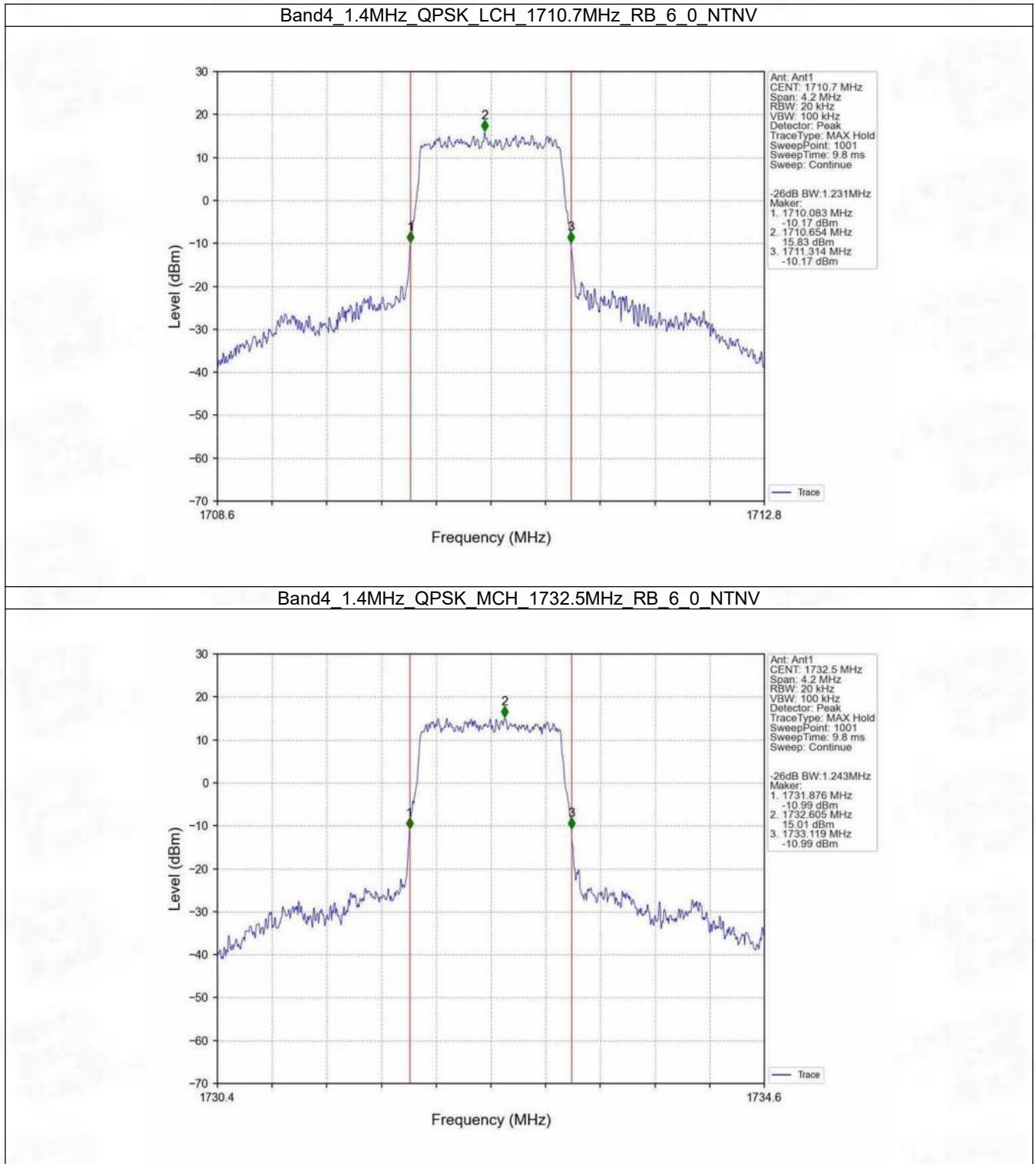
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



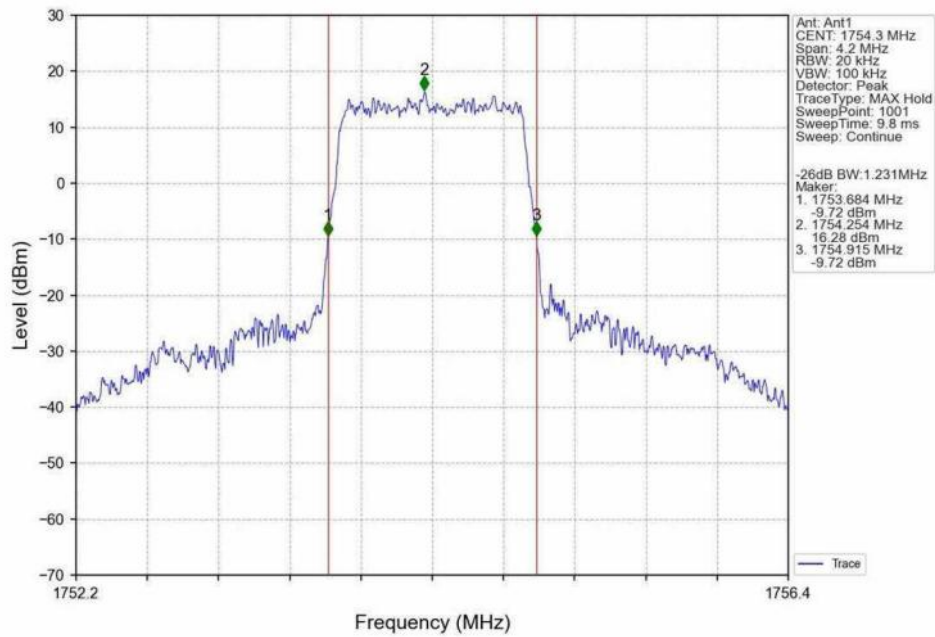
Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



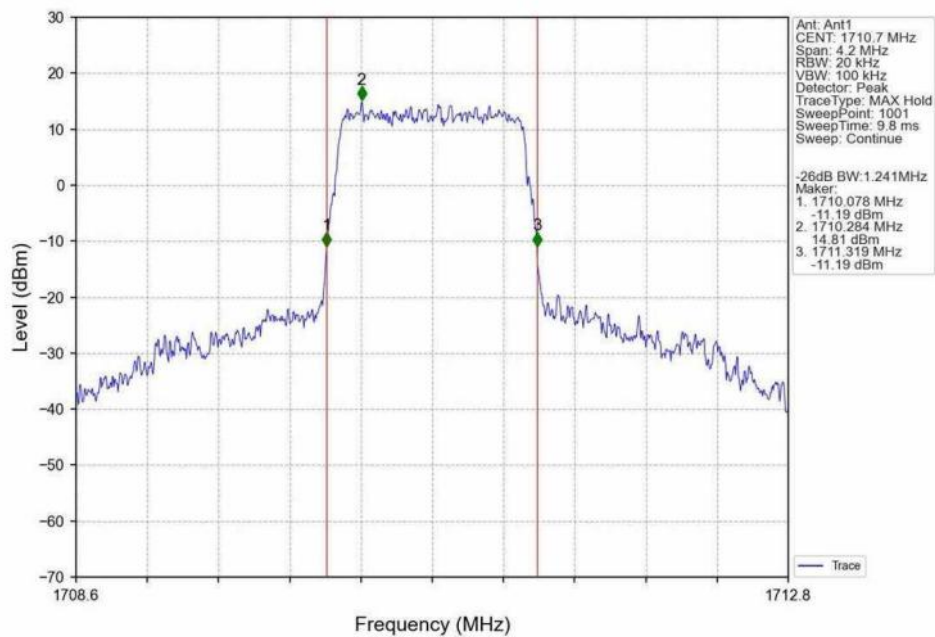
4.2.2 Band4_XDB



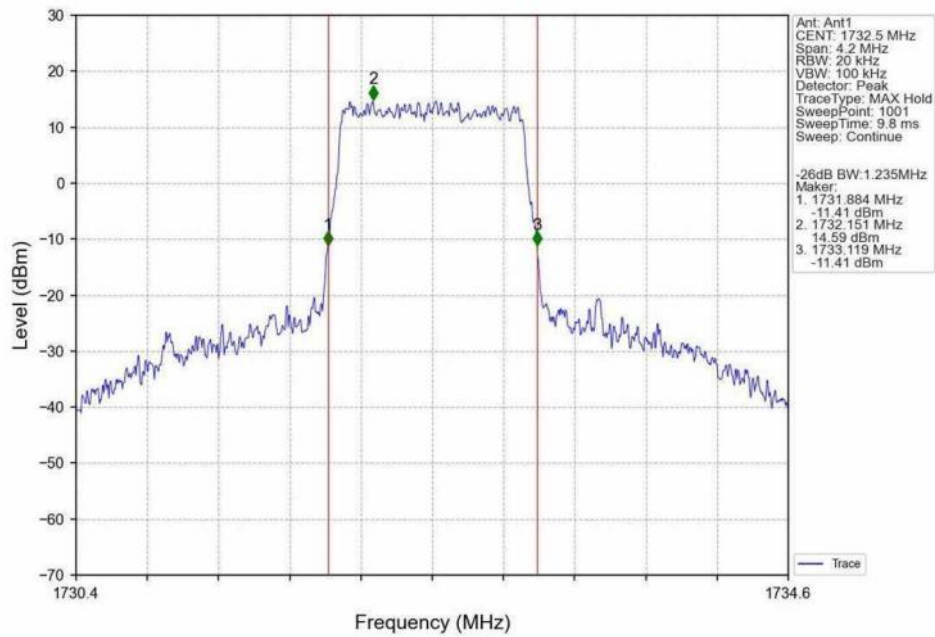
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



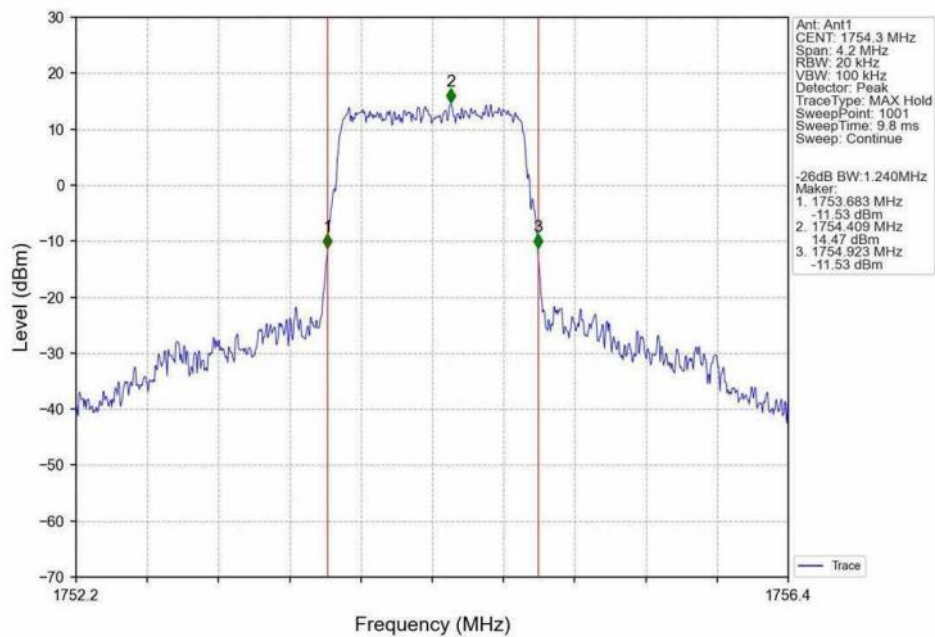
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



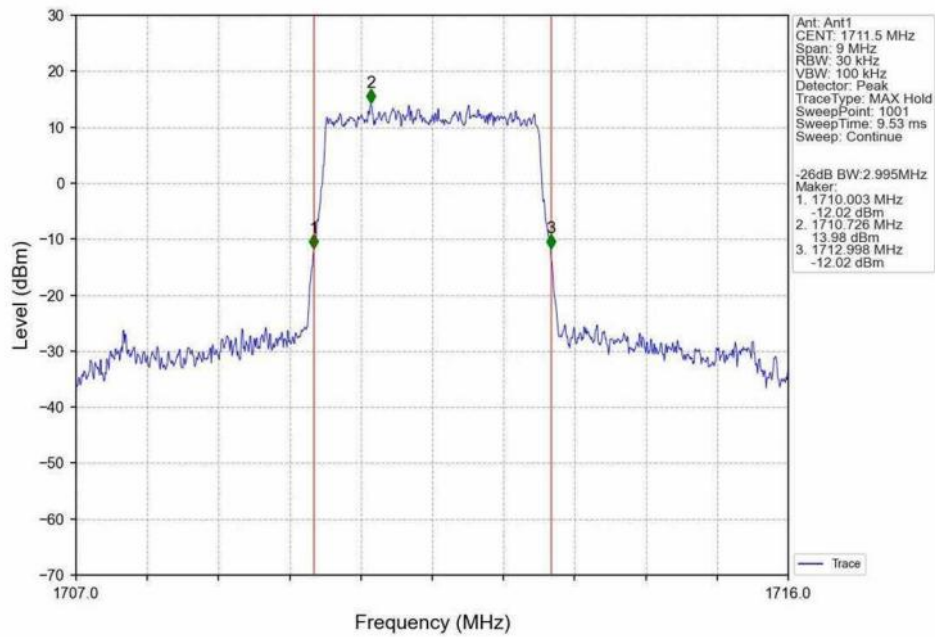
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



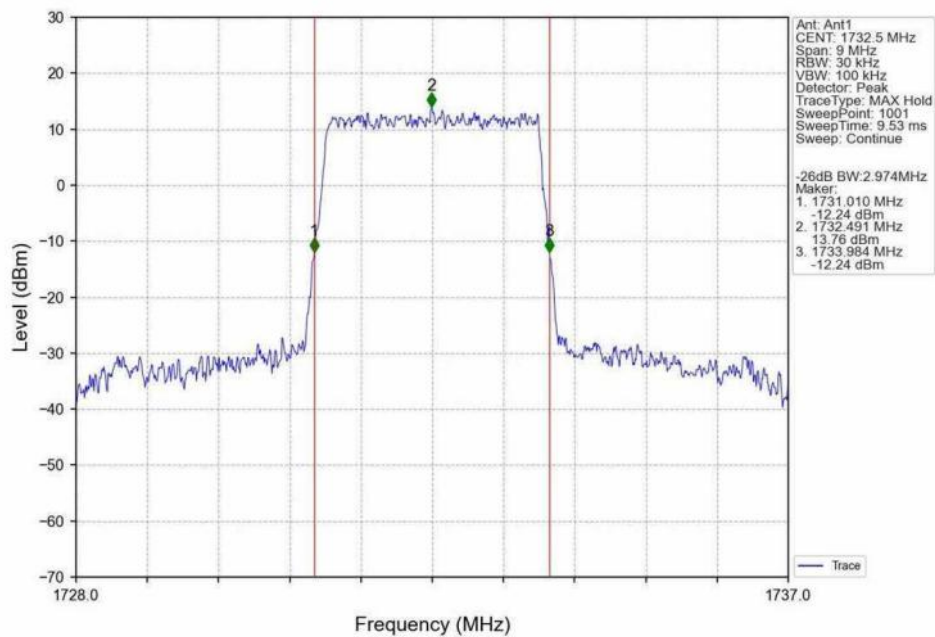
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



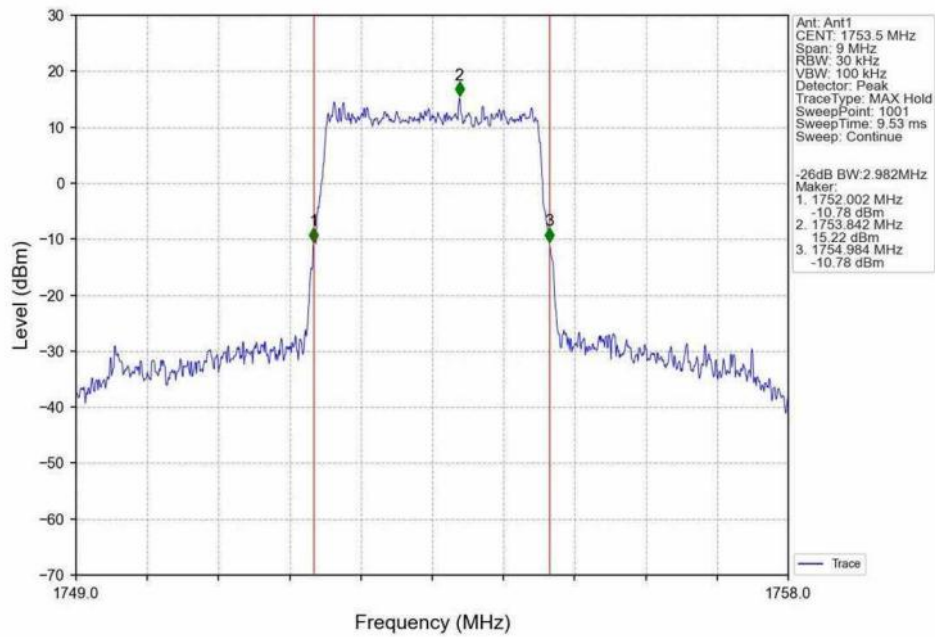
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



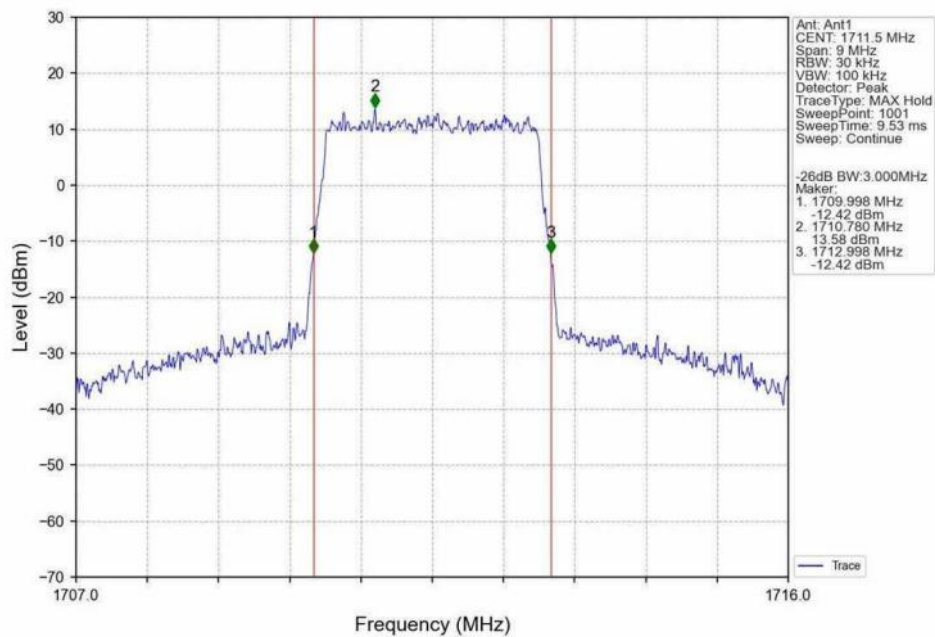
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



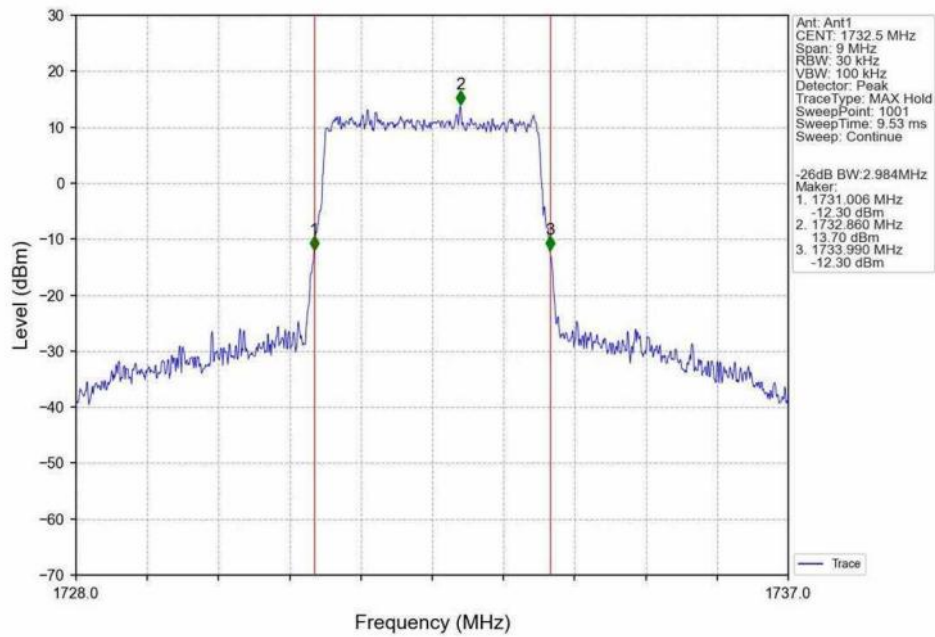
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



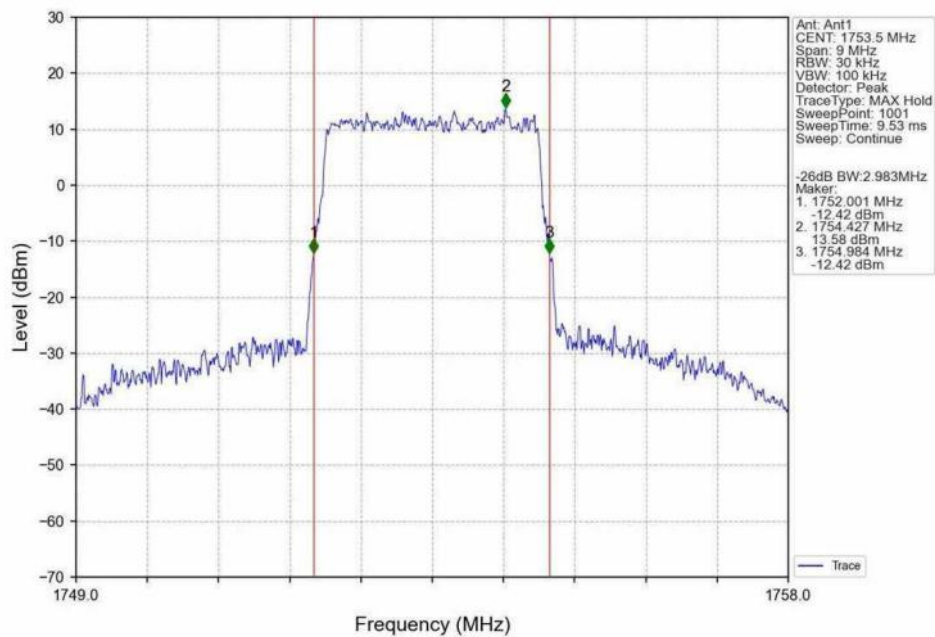
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



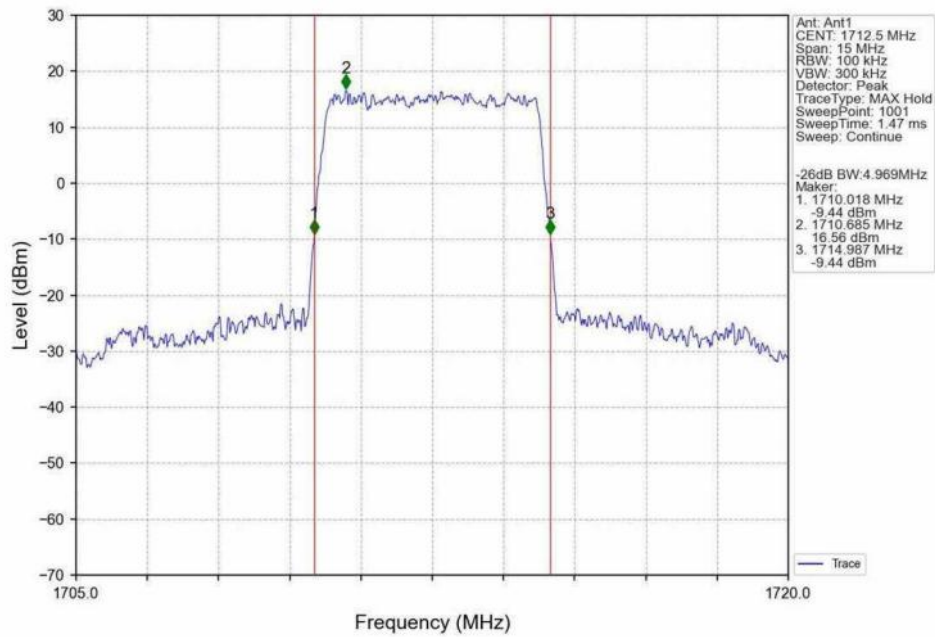
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



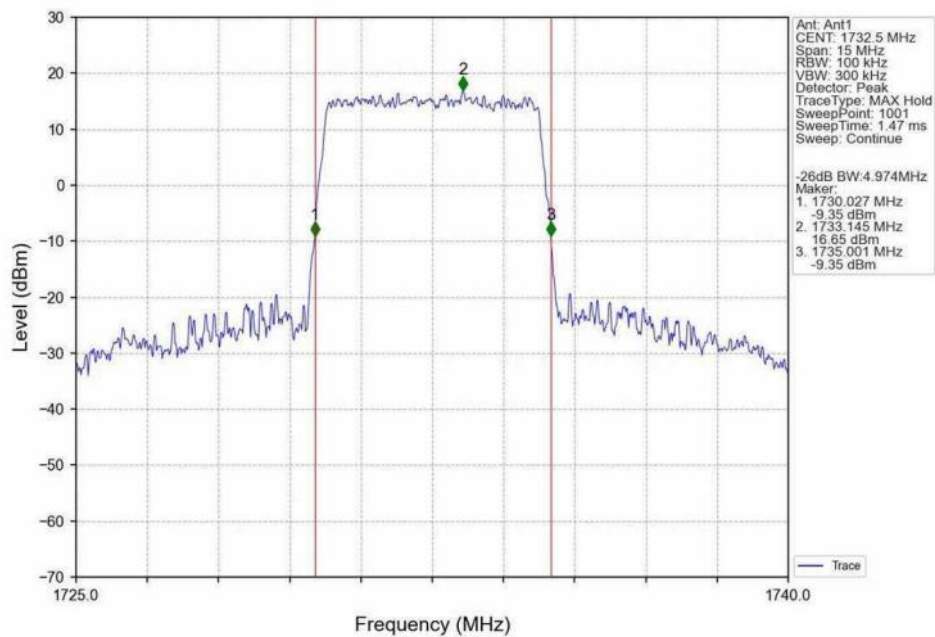
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



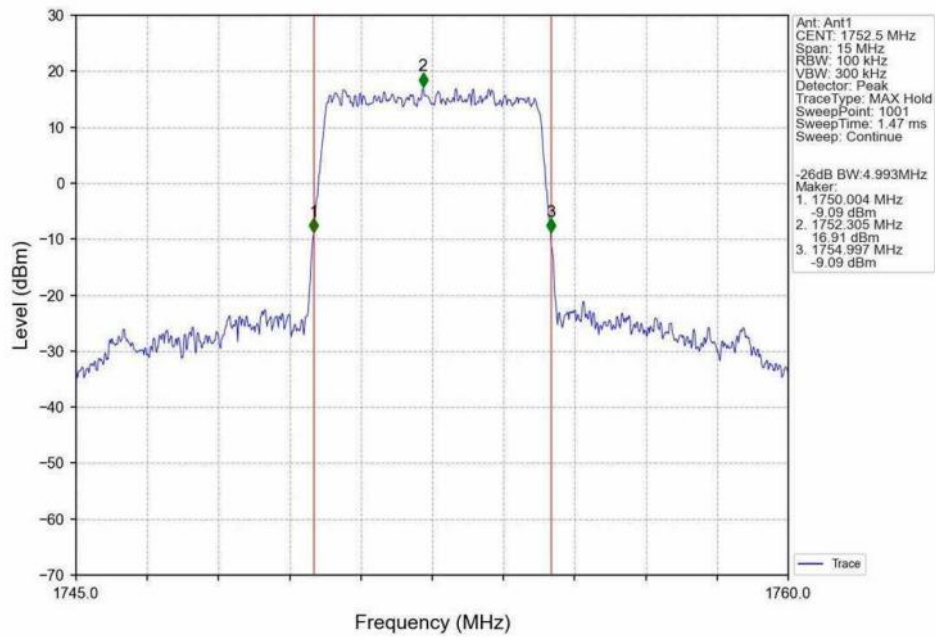
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



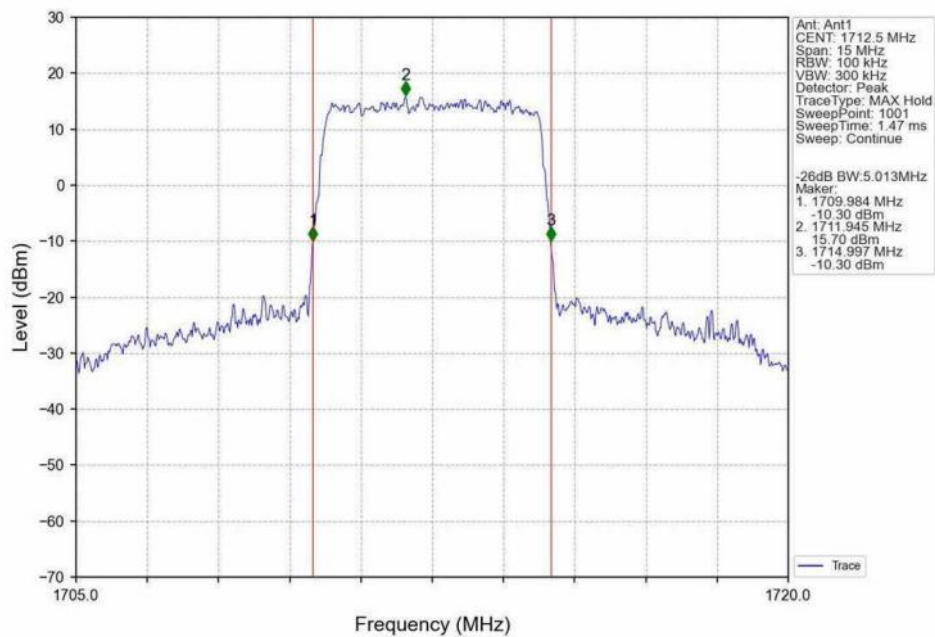
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



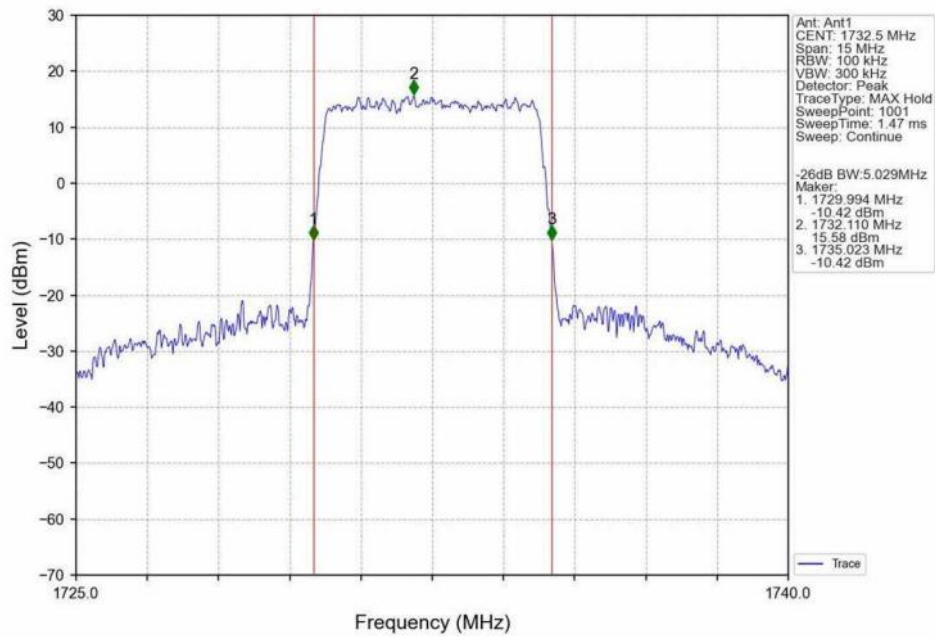
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



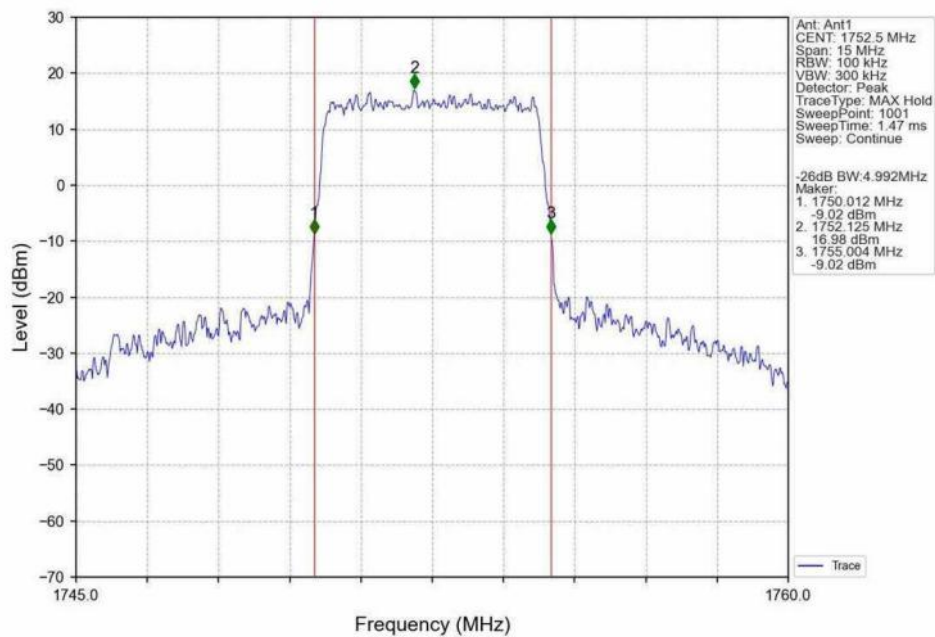
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



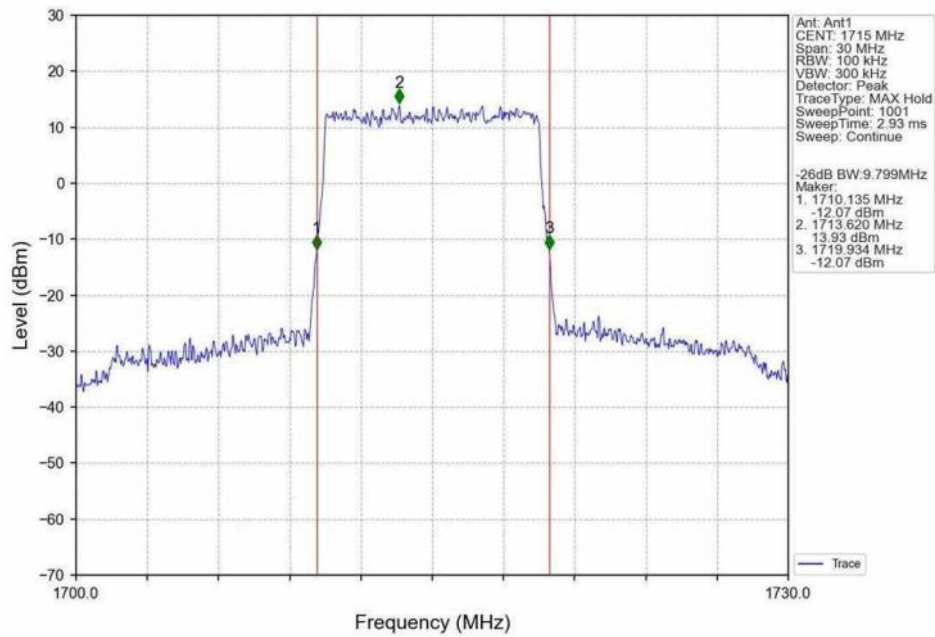
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



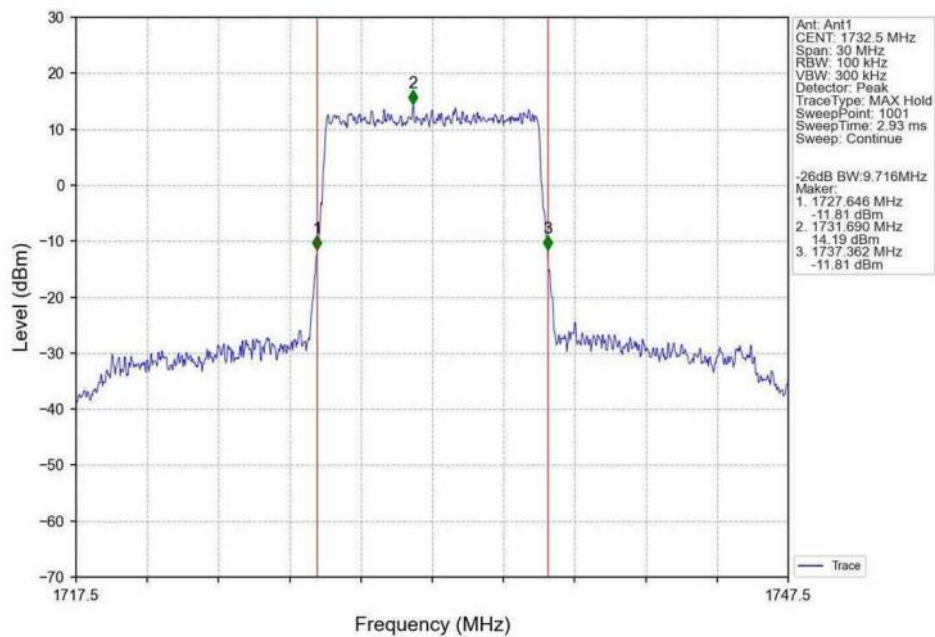
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



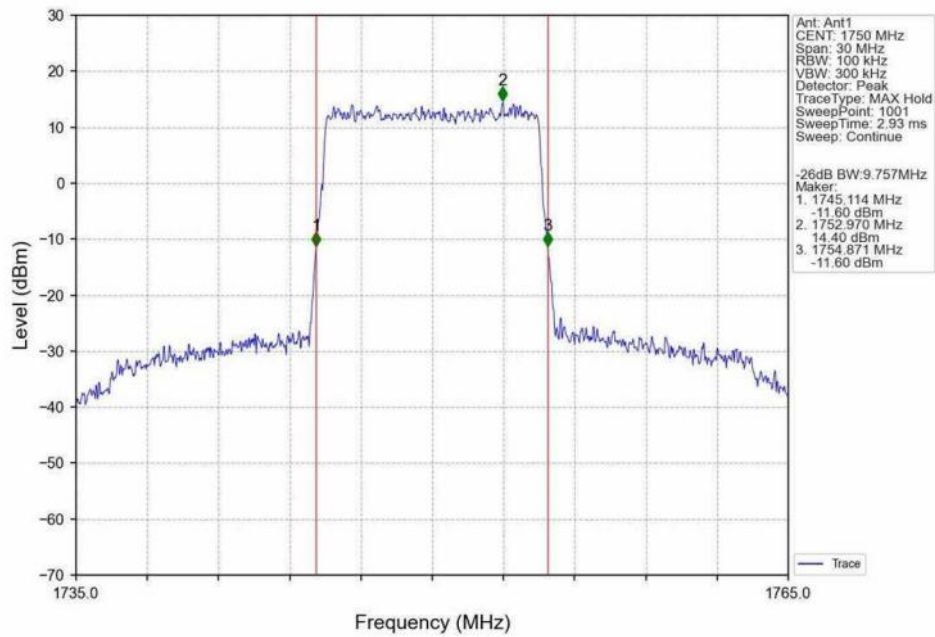
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



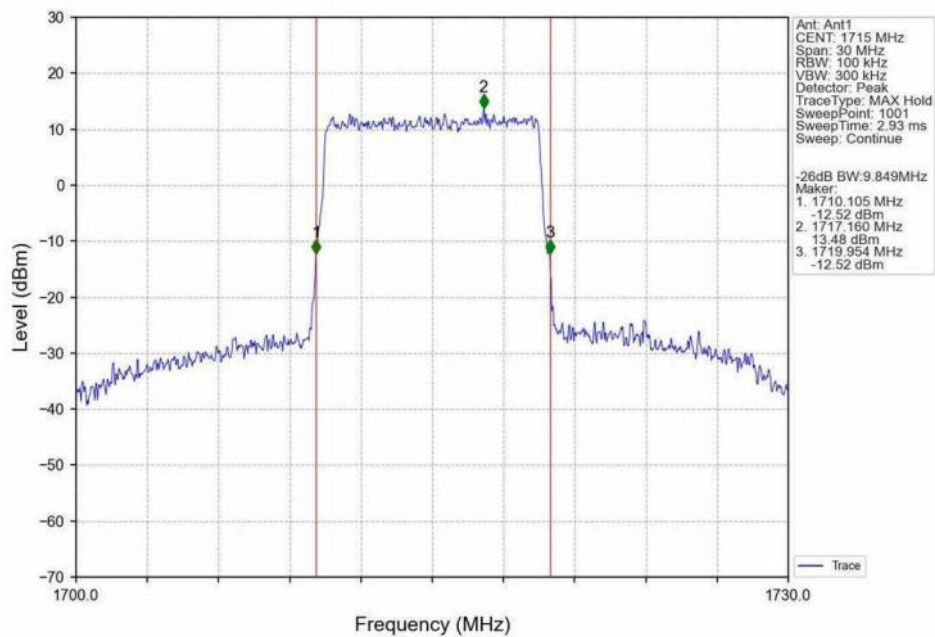
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



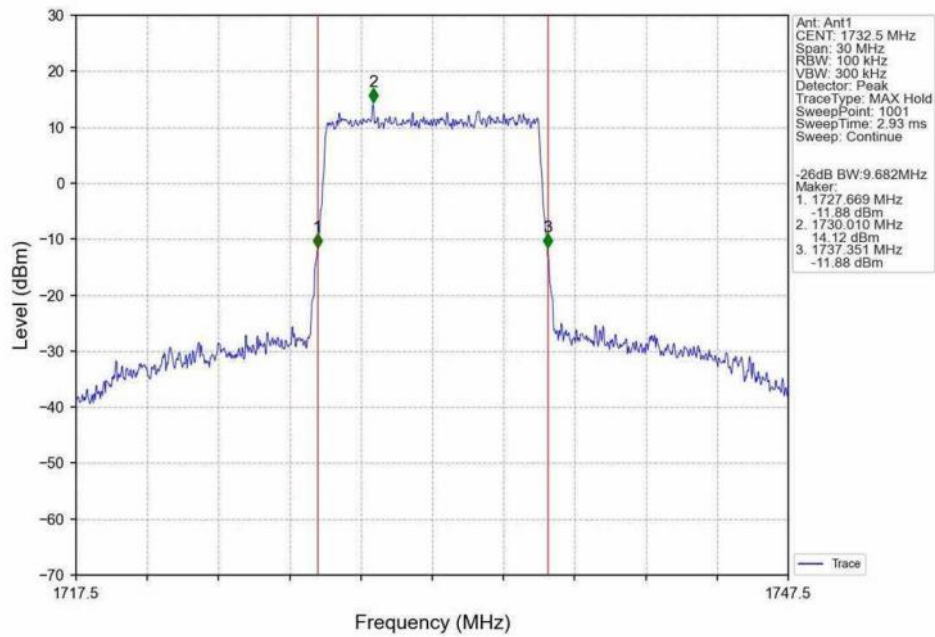
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



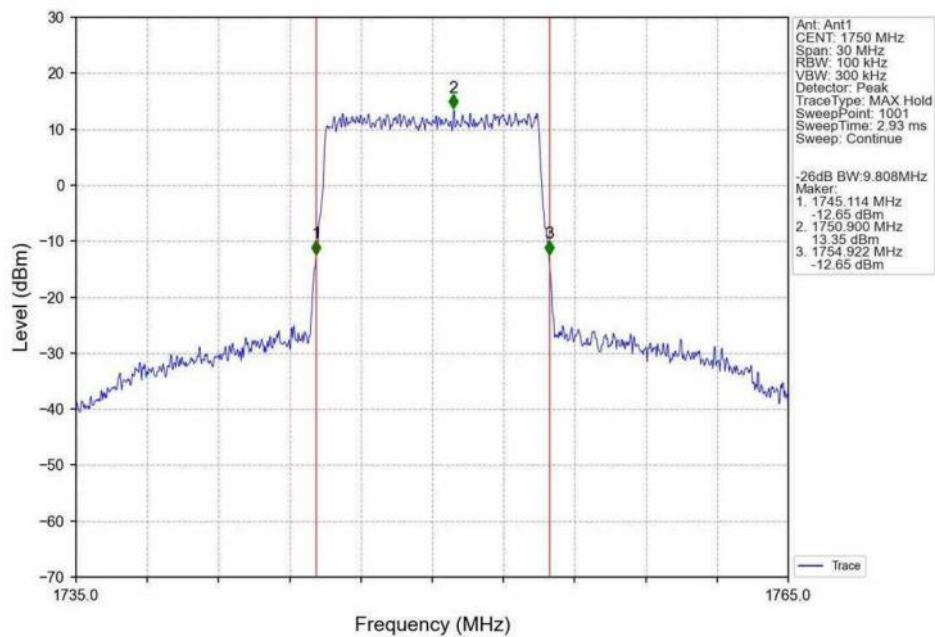
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



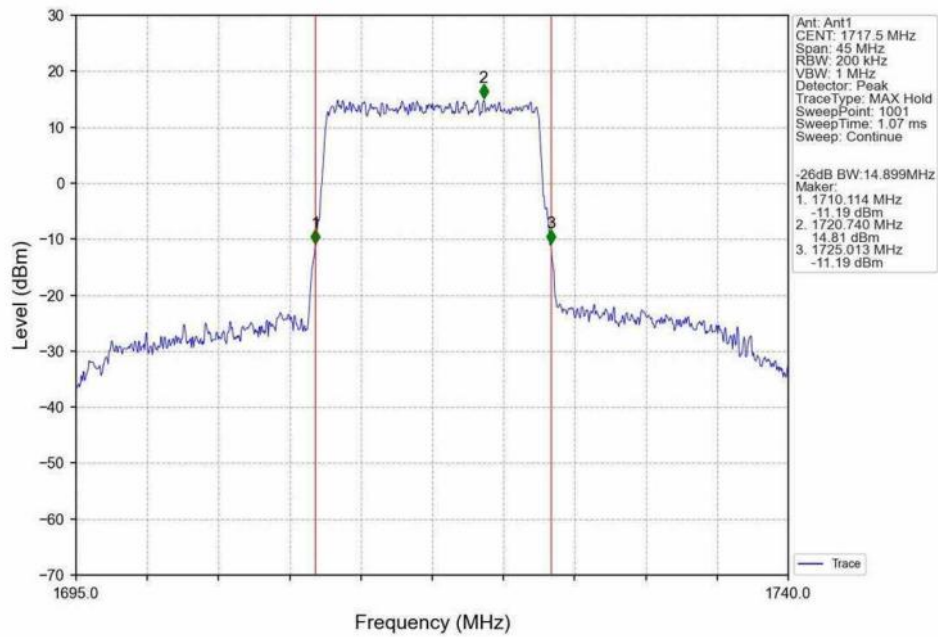
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



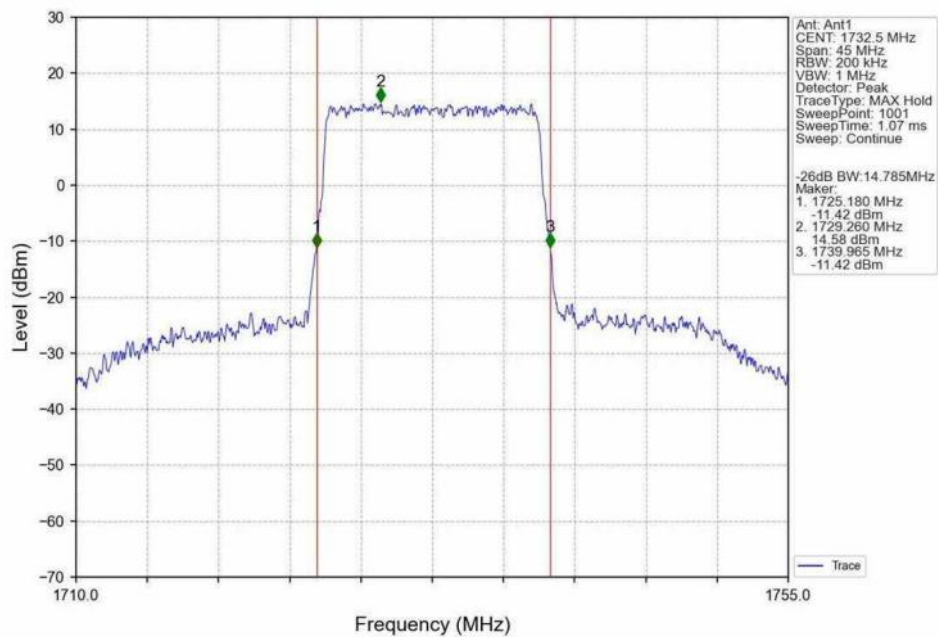
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



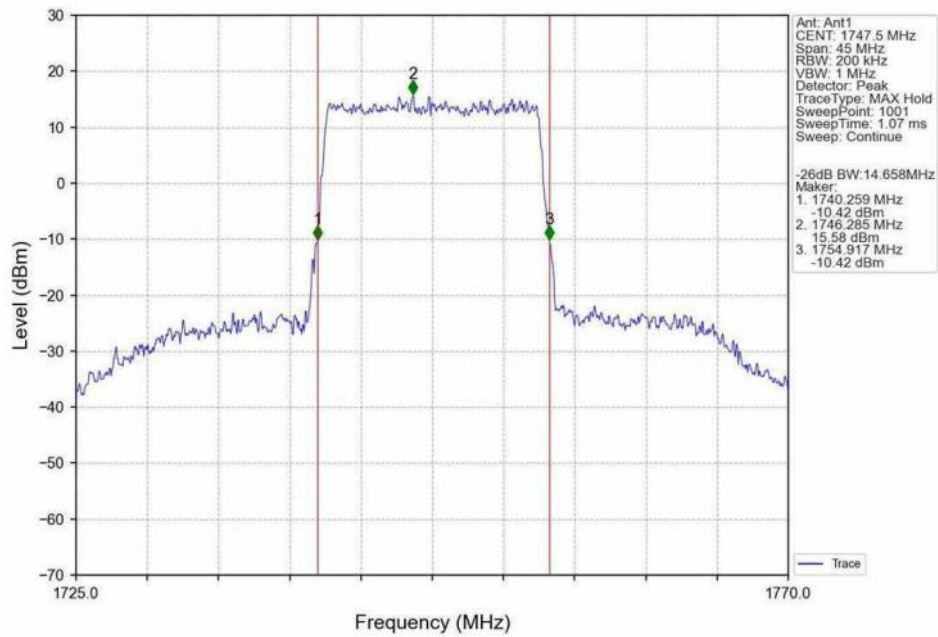
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



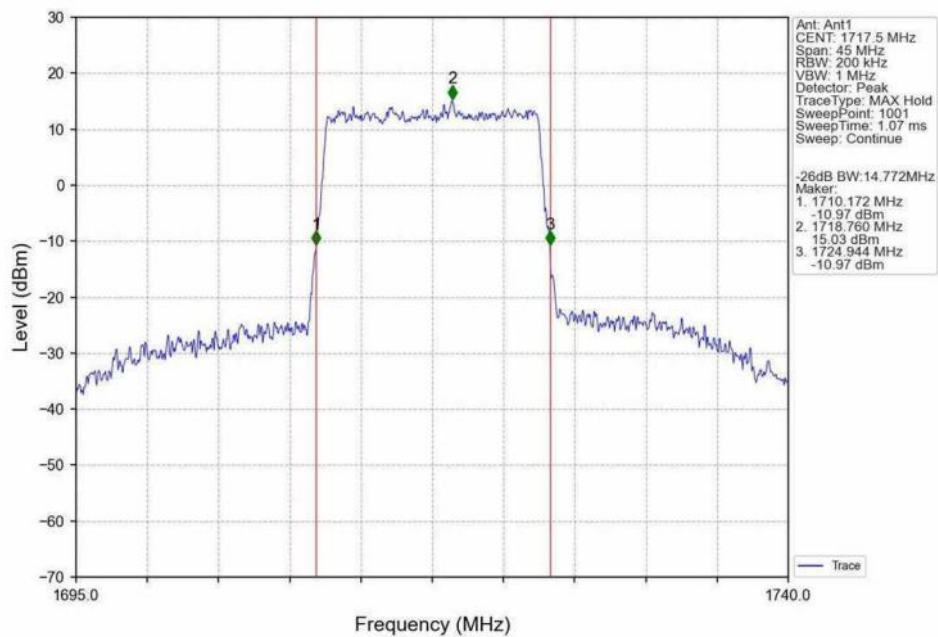
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



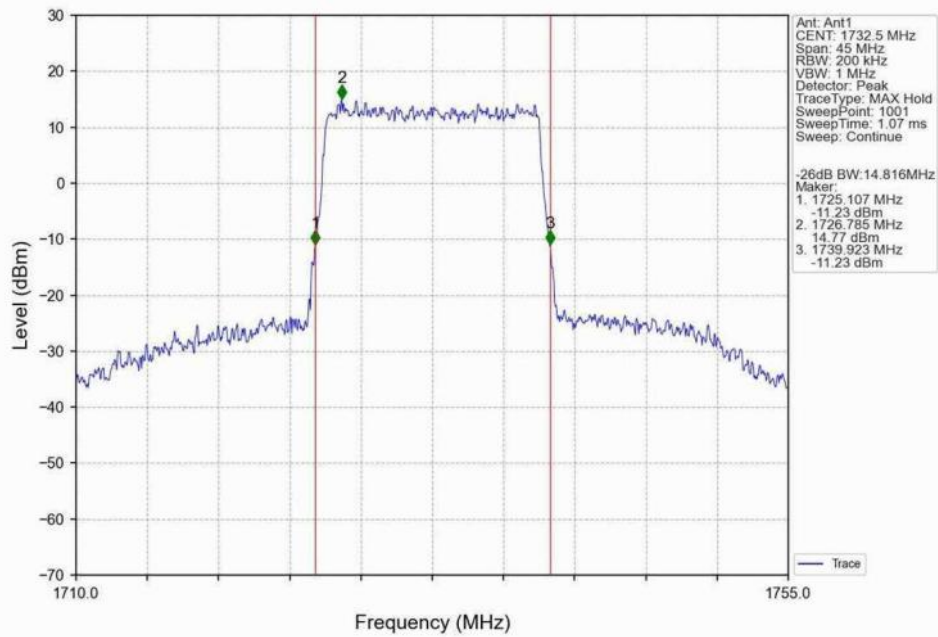
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



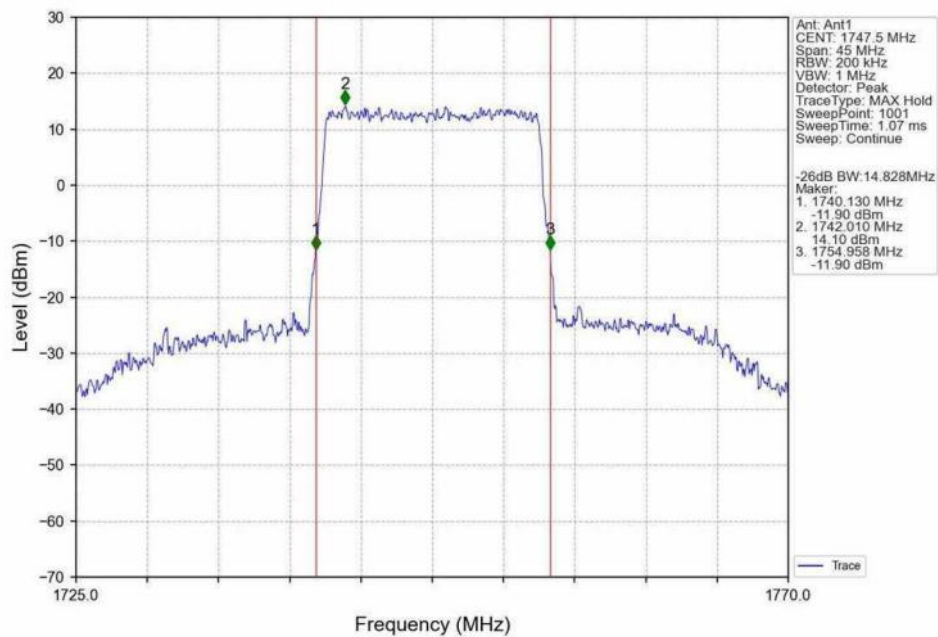
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



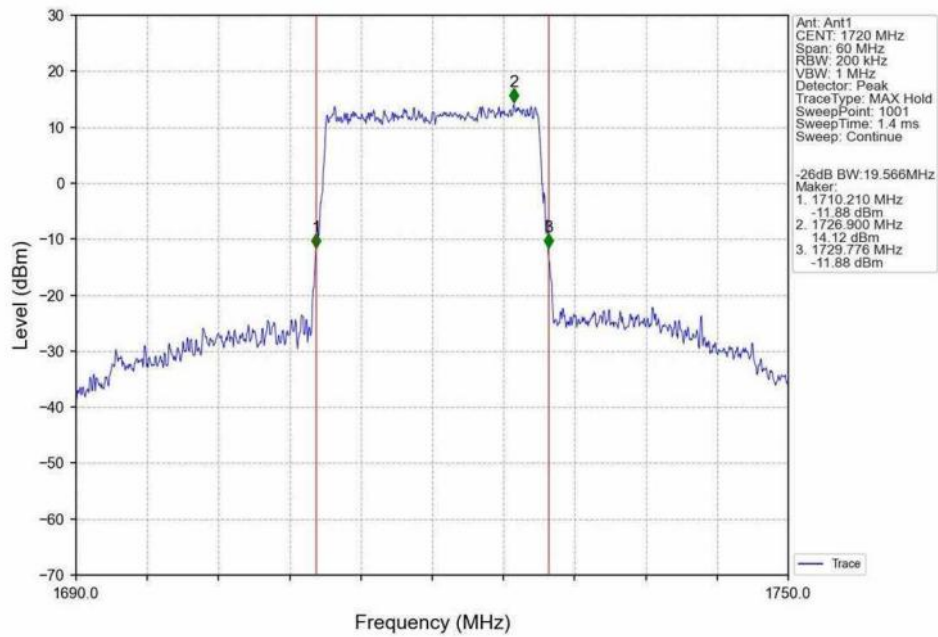
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



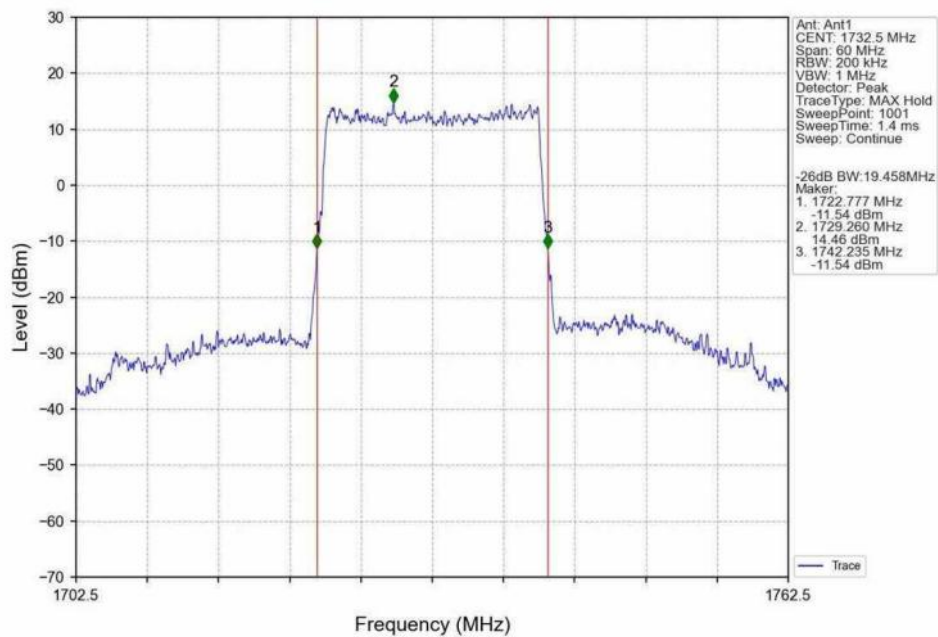
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



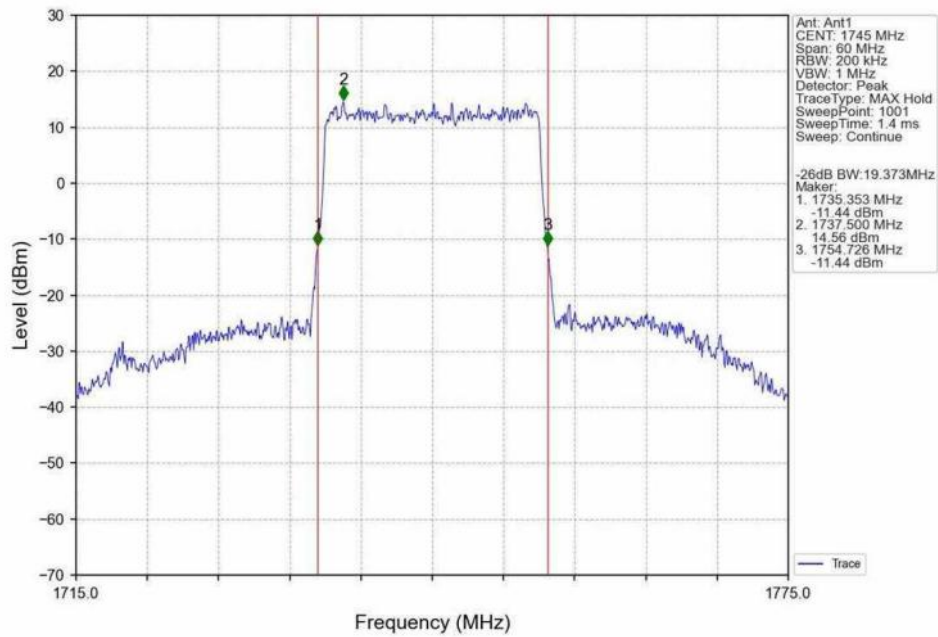
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



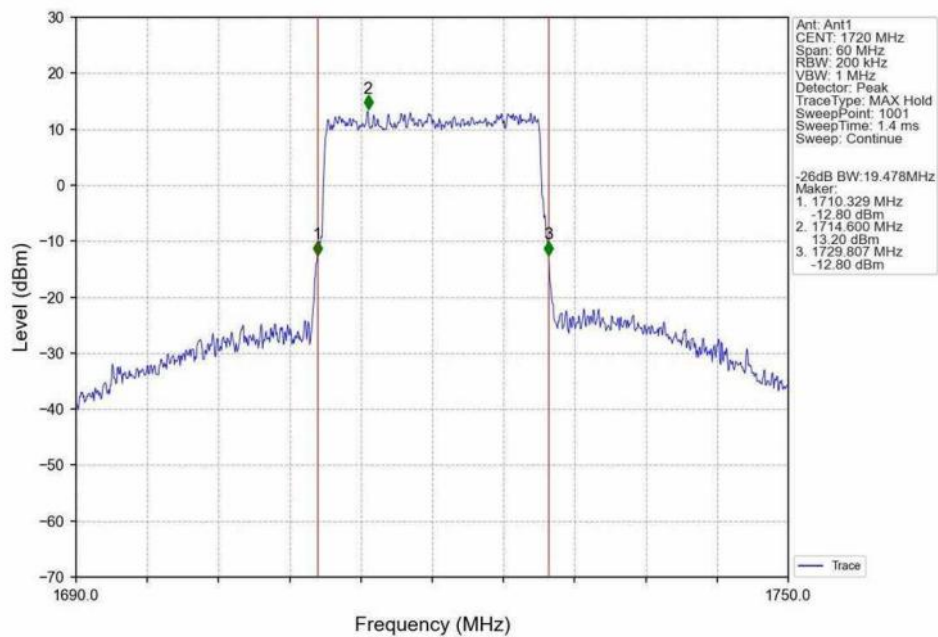
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



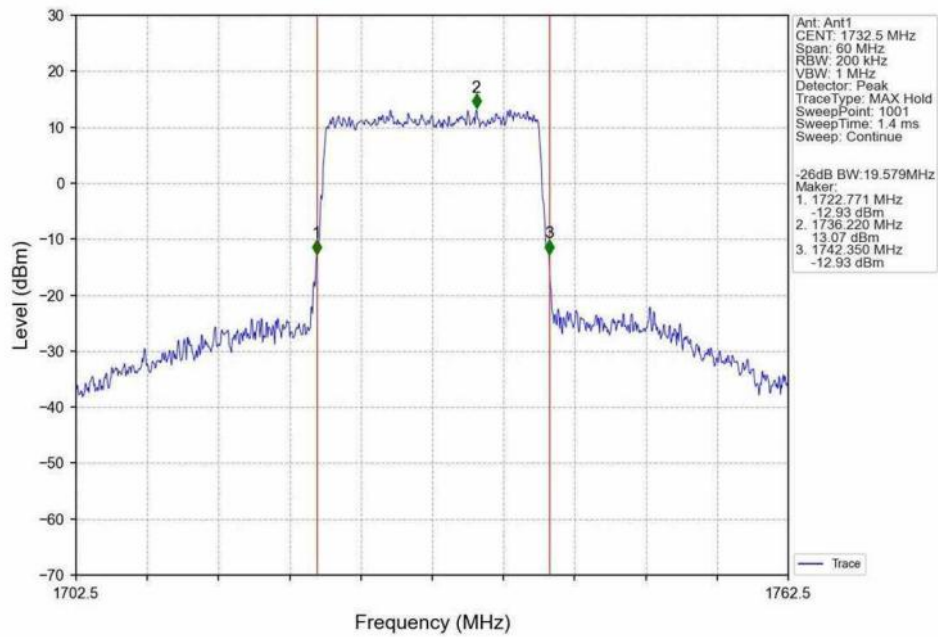
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



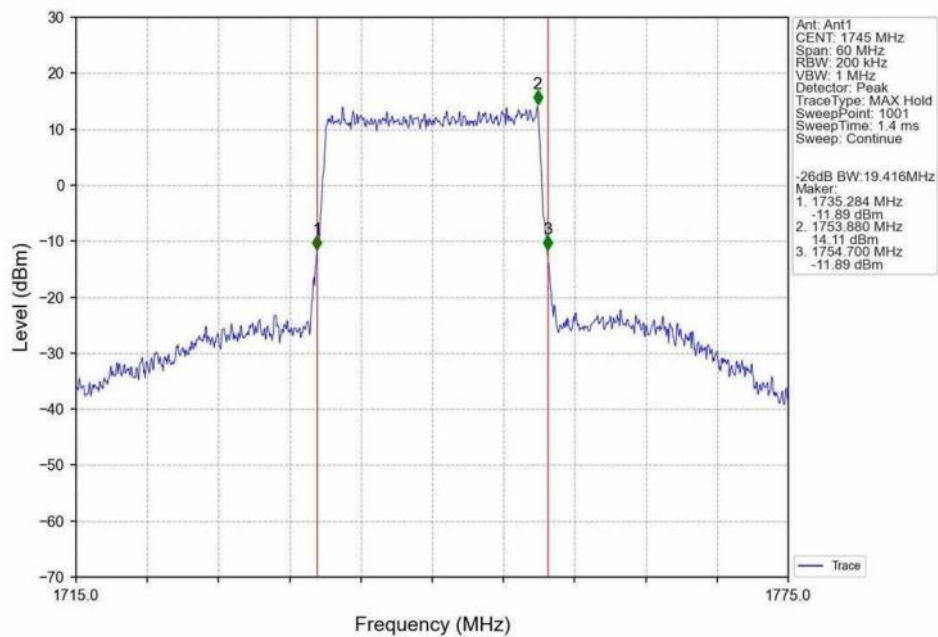
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 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	5.02	≤ 13	Pass
	1732.5	6	0	5.05	≤ 13	Pass
	1754.3	6	0	5.01	≤ 13	Pass
16QAM	1710.7	6	0	5.78	≤ 13	Pass
	1732.5	6	0	5.86	≤ 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	5.23	≤ 13	Pass
	1732.5	15	0	5.17	≤ 13	Pass
	1753.5	15	0	5.12	≤ 13	Pass
16QAM	1711.5	15	0	6.01	≤ 13	Pass
	1732.5	15	0	5.89	≤ 13	Pass
	1753.5	15	0	5.90	≤ 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	5.22	≤ 13	Pass
	1732.5	25	0	5.35	≤ 13	Pass
	1752.5	25	0	5.34	≤ 13	Pass
16QAM	1712.5	25	0	5.88	≤ 13	Pass
	1732.5	25	0	6.13	≤ 13	Pass
	1752.5	25	0	5.98	≤ 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	5.37	≤ 13	Pass
	1732.5	50	0	5.45	≤ 13	Pass
	1750	50	0	5.34	≤ 13	Pass
16QAM	1715	50	0	6.11	≤ 13	Pass
	1732.5	50	0	6.20	≤ 13	Pass

	1750	50	0	6.09	<=13	Pass
--	------	----	---	------	------	------

5.1.5 B4_15MHz

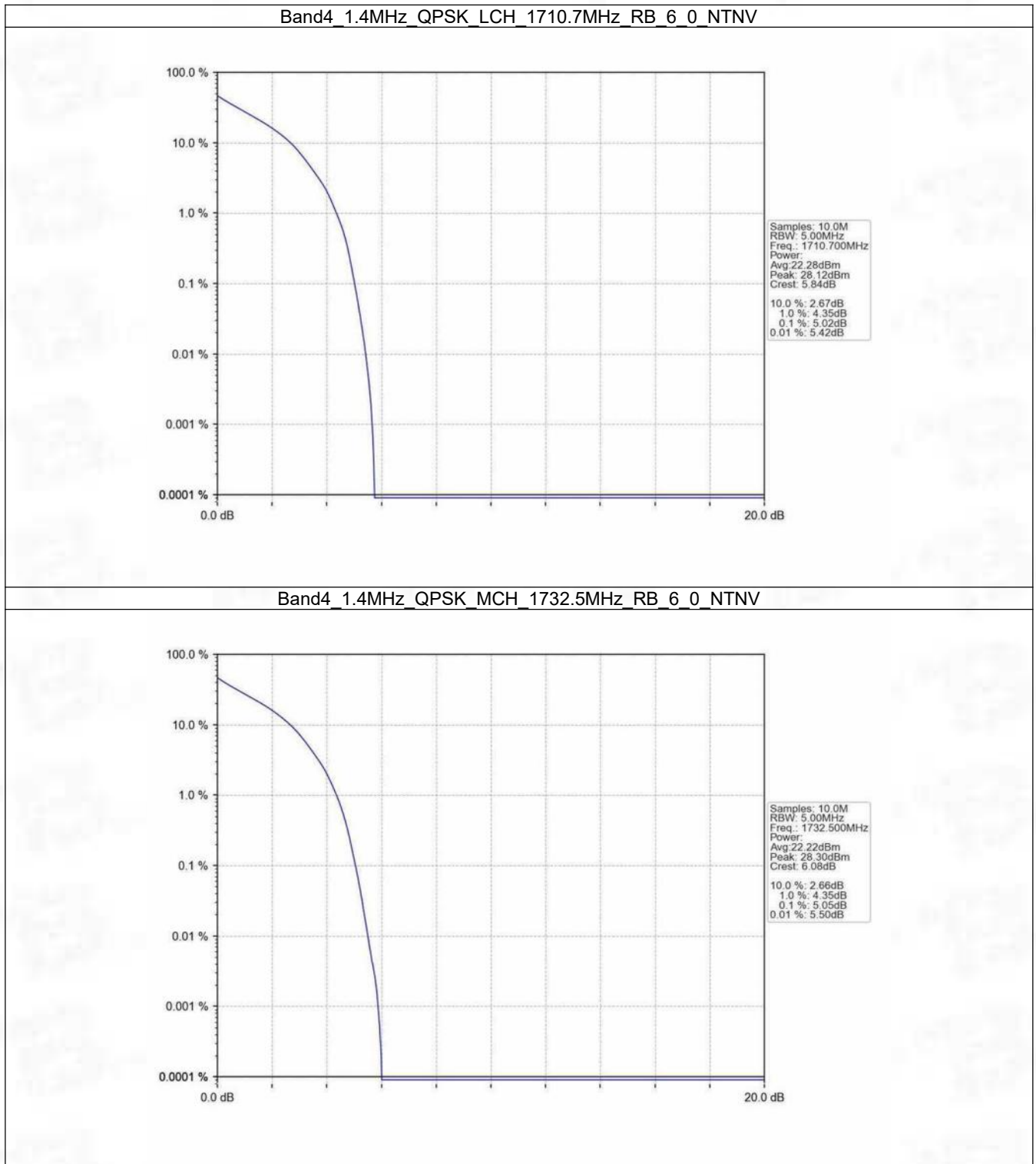
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.40	<=13	Pass
	1732.5	75	0	5.38	<=13	Pass
	1747.5	75	0	5.37	<=13	Pass
16QAM	1717.5	75	0	5.93	<=13	Pass
	1732.5	75	0	6.01	<=13	Pass
	1747.5	75	0	5.96	<=13	Pass

5.1.6 B4_20MHz

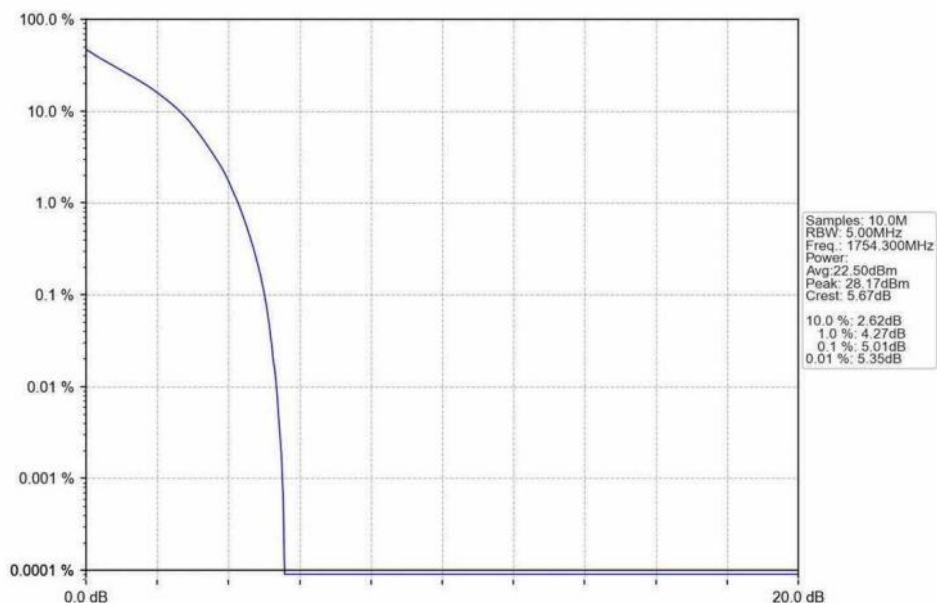
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.36	<=13	Pass
	1732.5	100	0	5.21	<=13	Pass
	1745	100	0	5.34	<=13	Pass
16QAM	1720	100	0	6.12	<=13	Pass
	1732.5	100	0	6.07	<=13	Pass
	1745	100	0	6.06	<=13	Pass

5.2 Test Graph

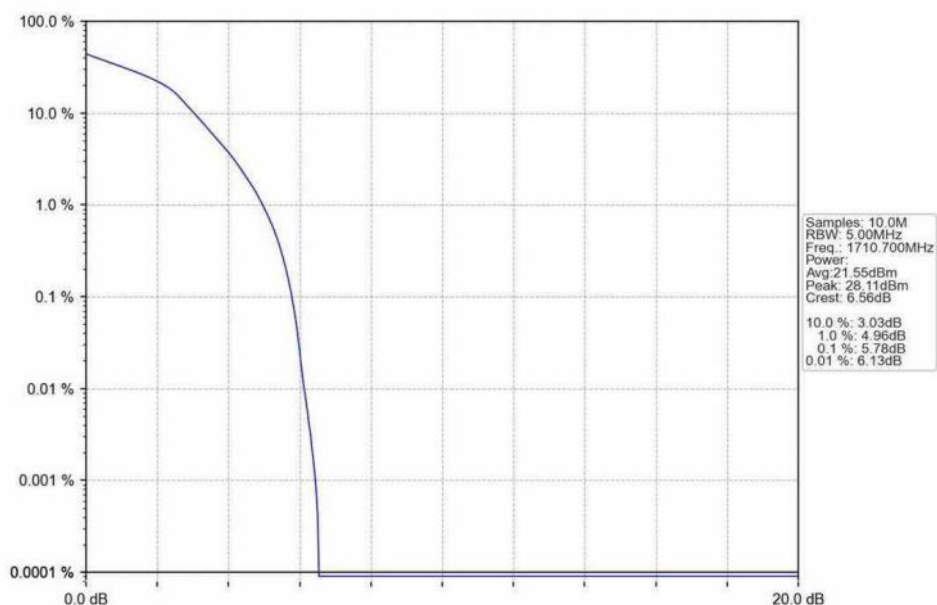
5.2.1 B4_1.4MHz



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



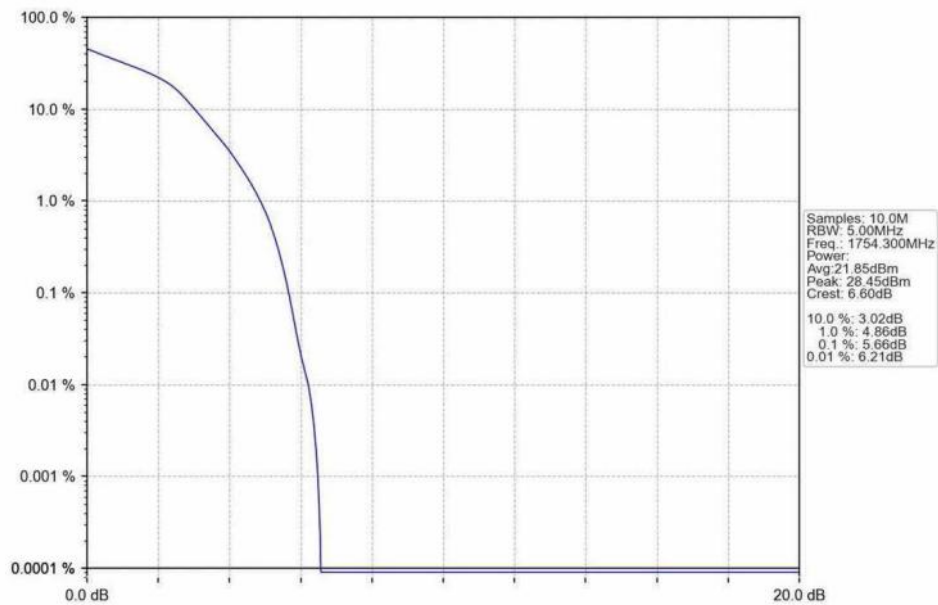
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



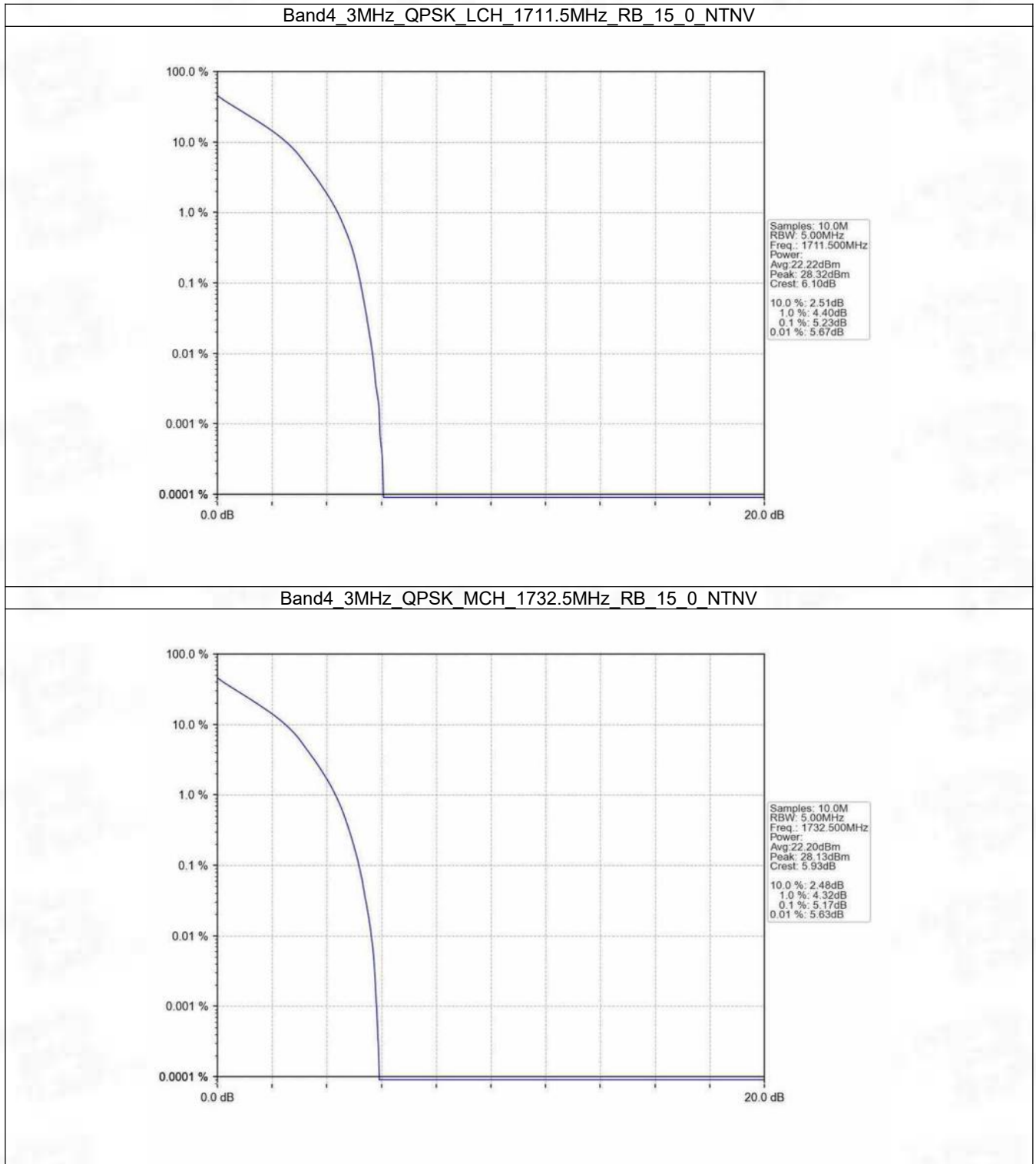
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



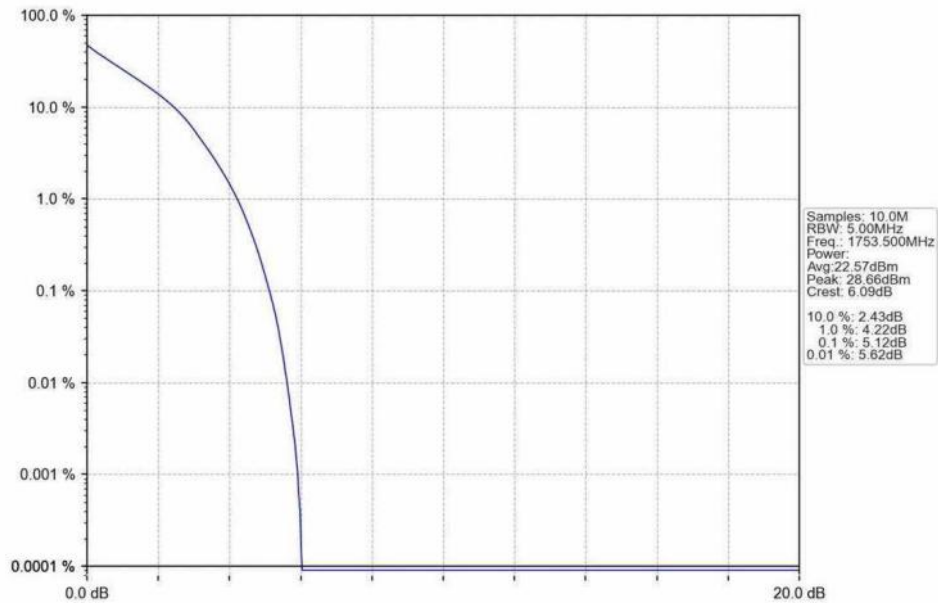
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



5.2.2 B4_3MHz



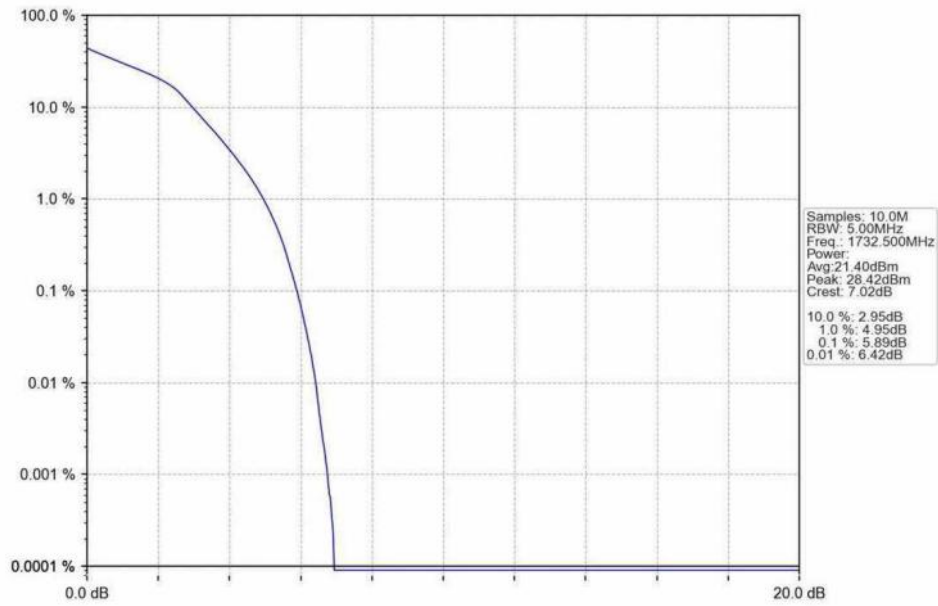
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



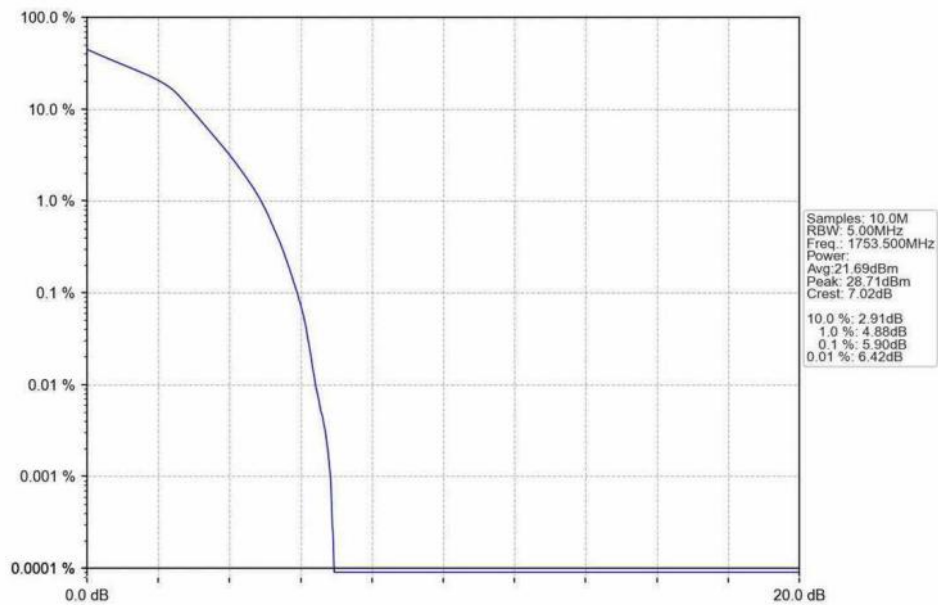
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



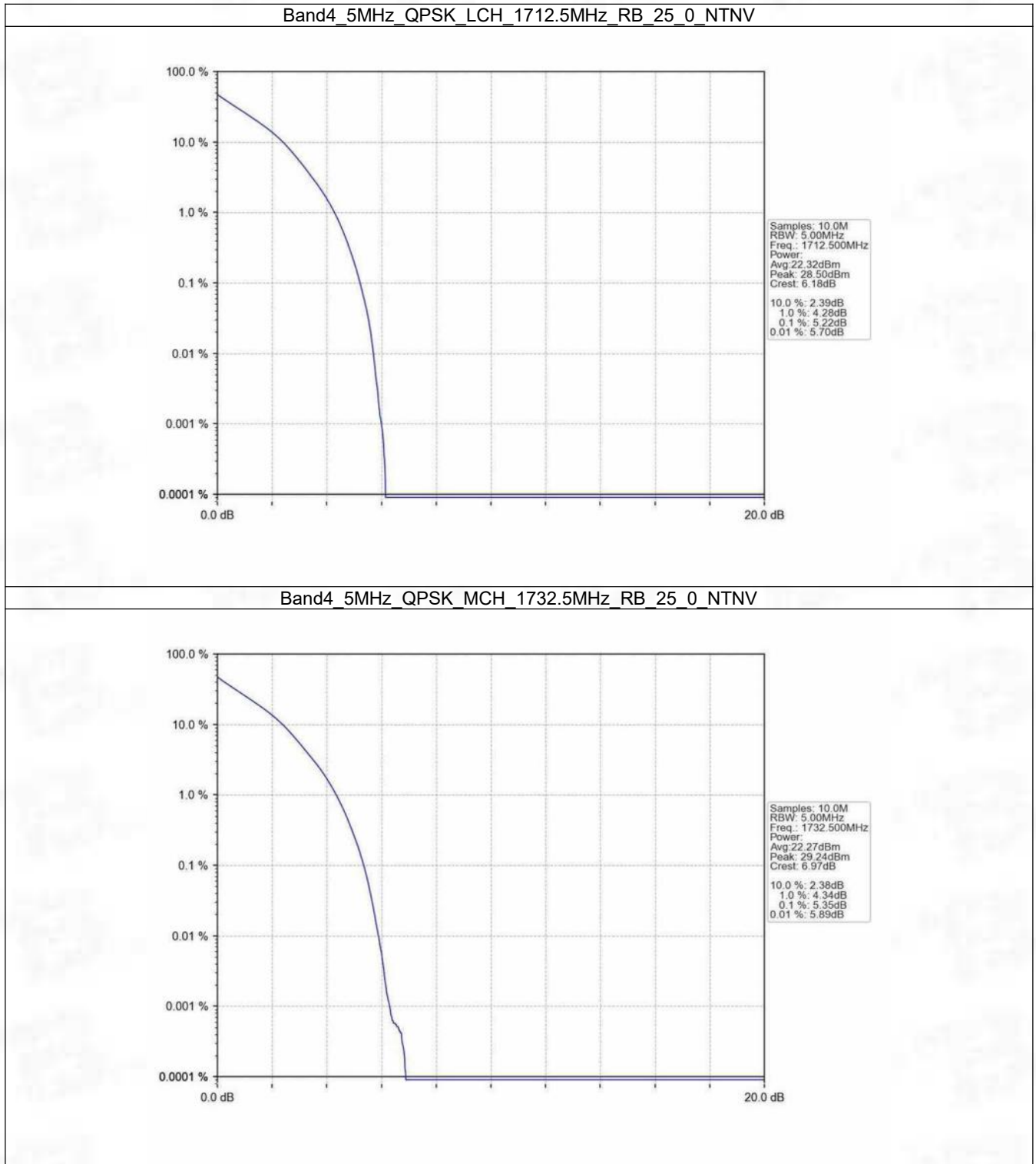
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



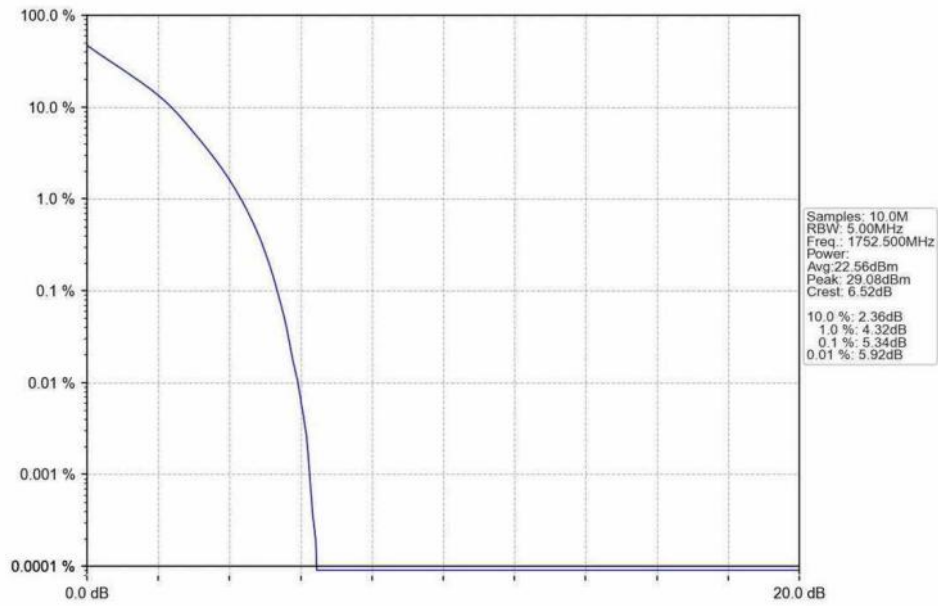
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



5.2.3 B4_5MHz



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



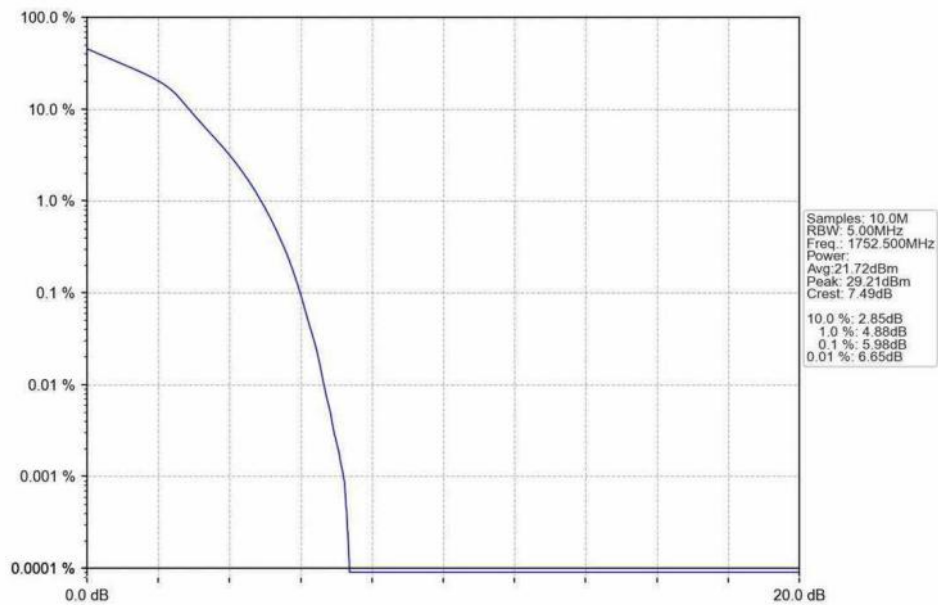
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



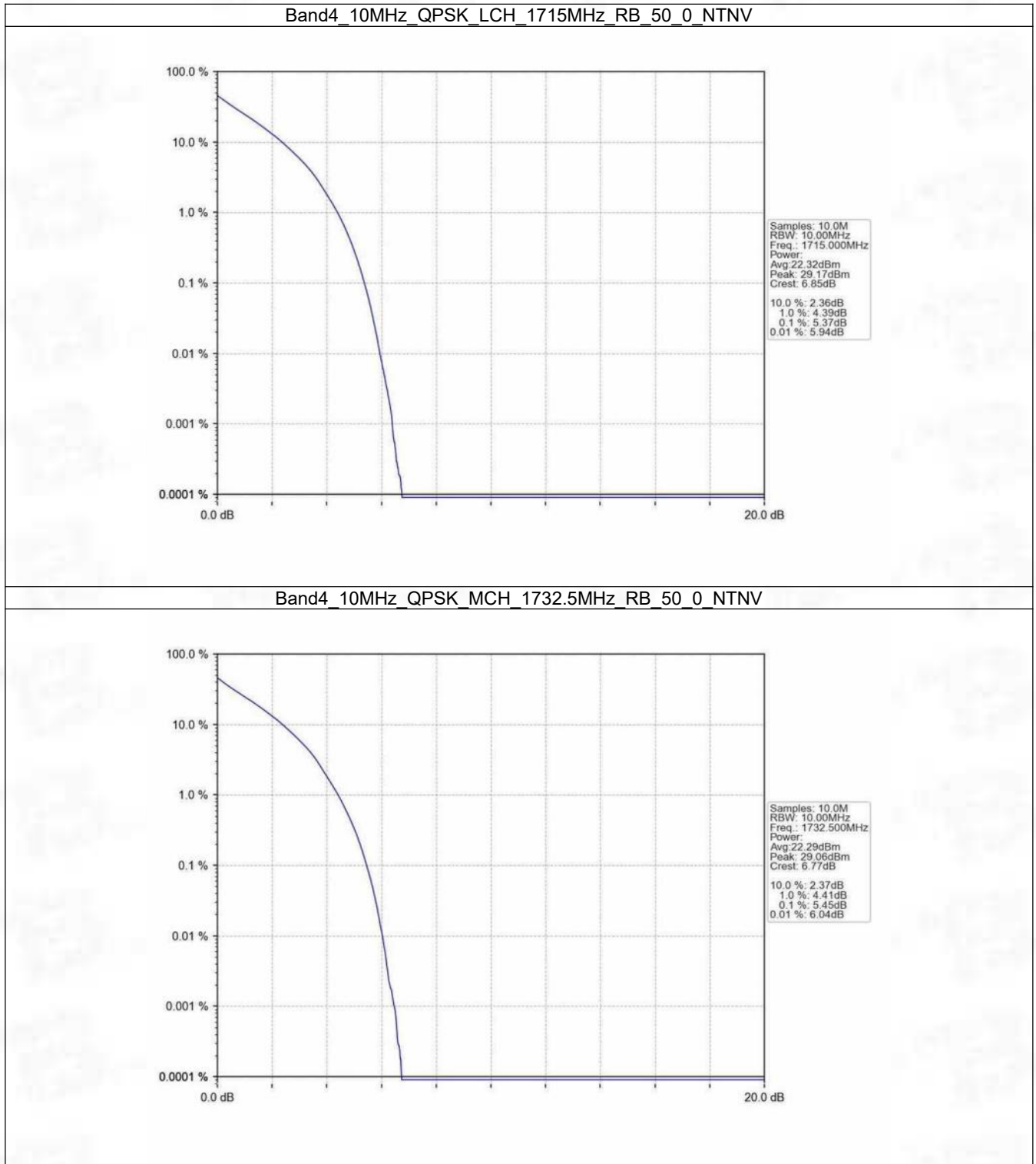
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



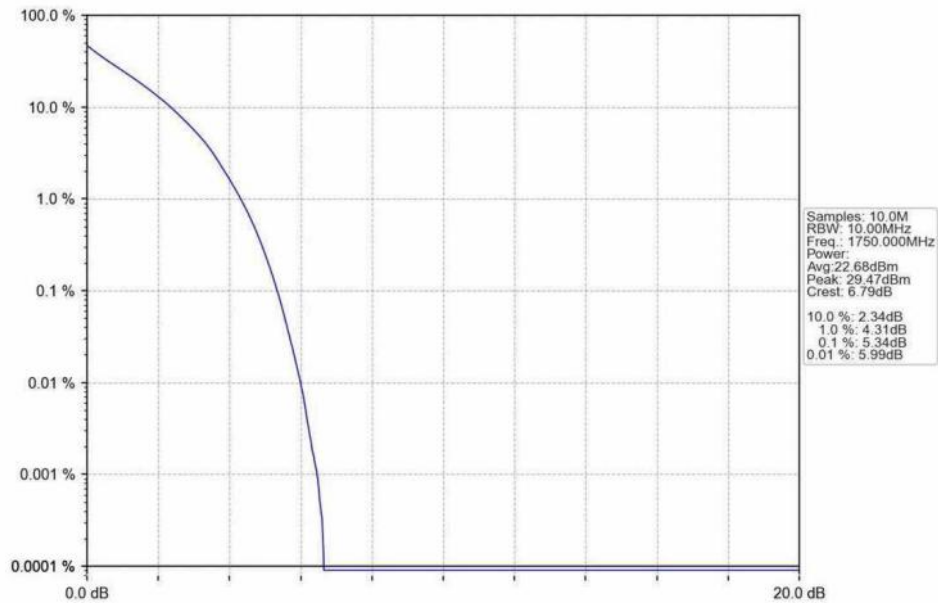
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



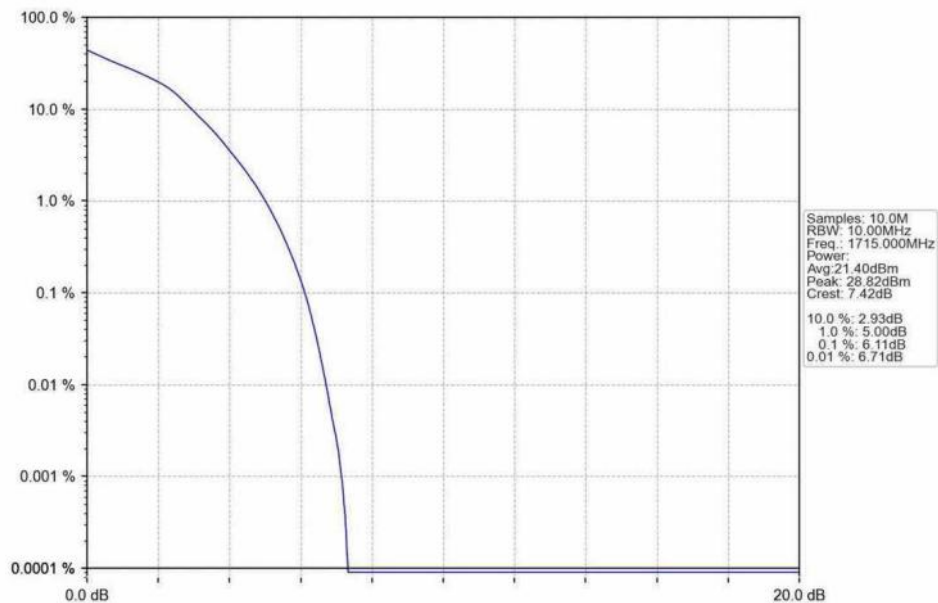
5.2.4 B4_10MHz



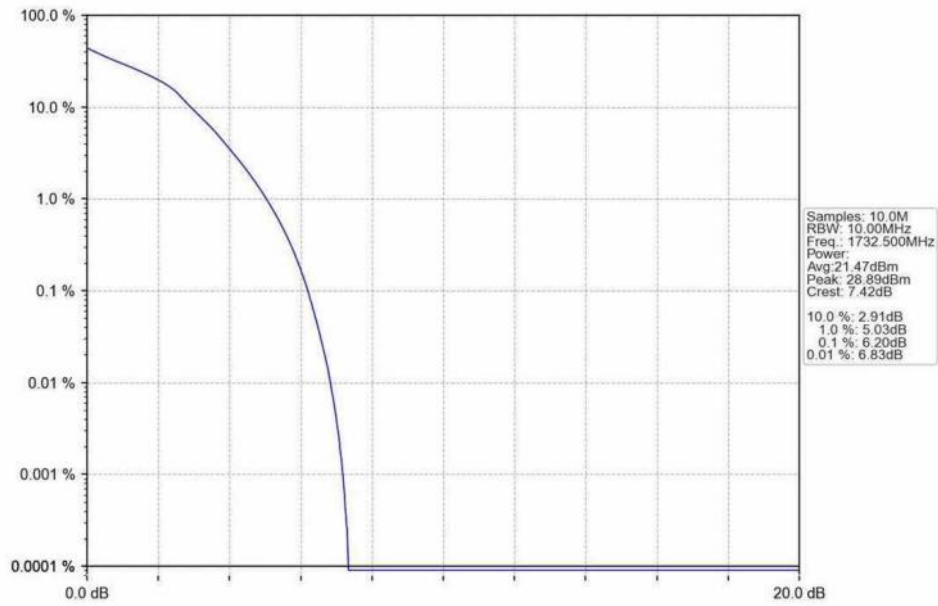
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



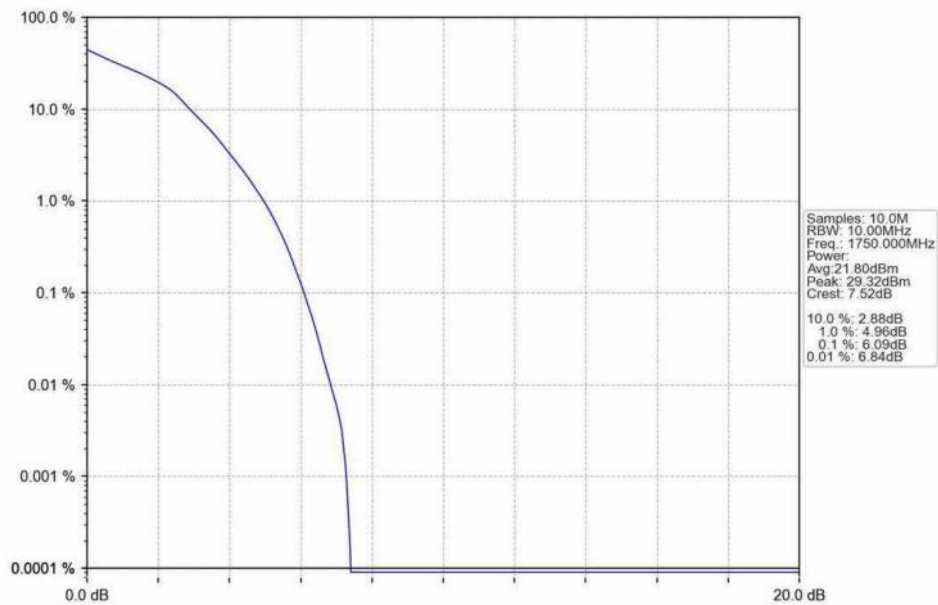
Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



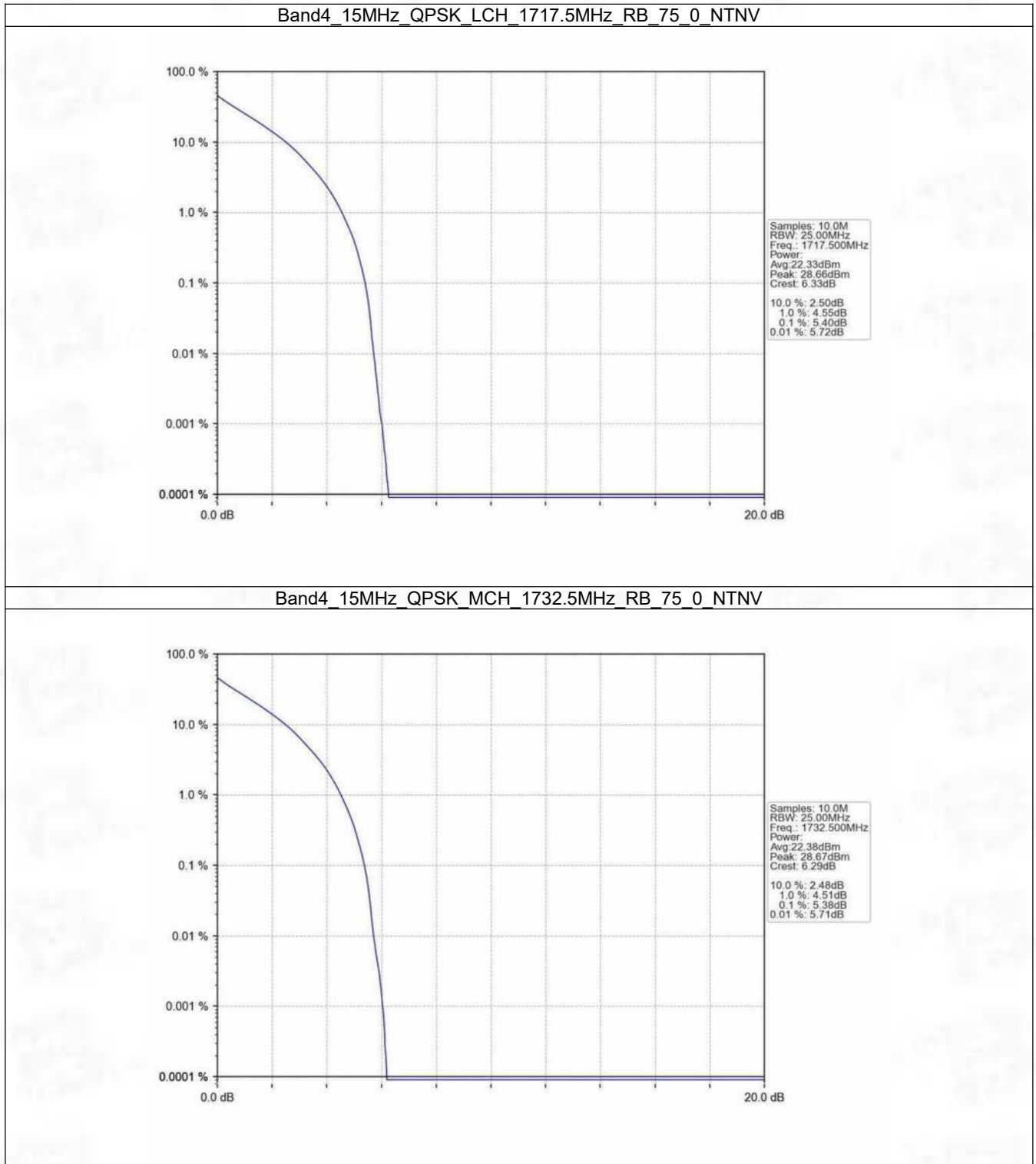
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



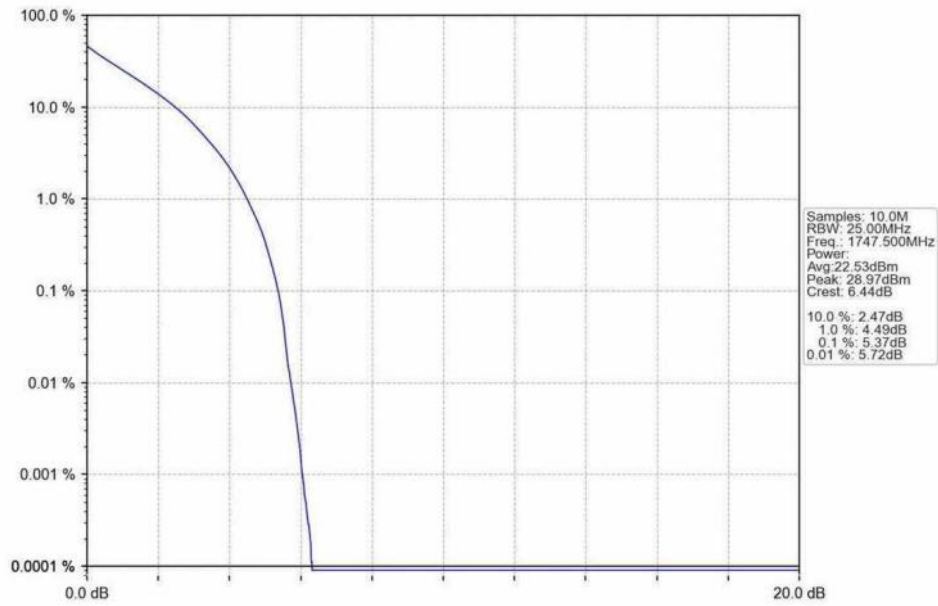
Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



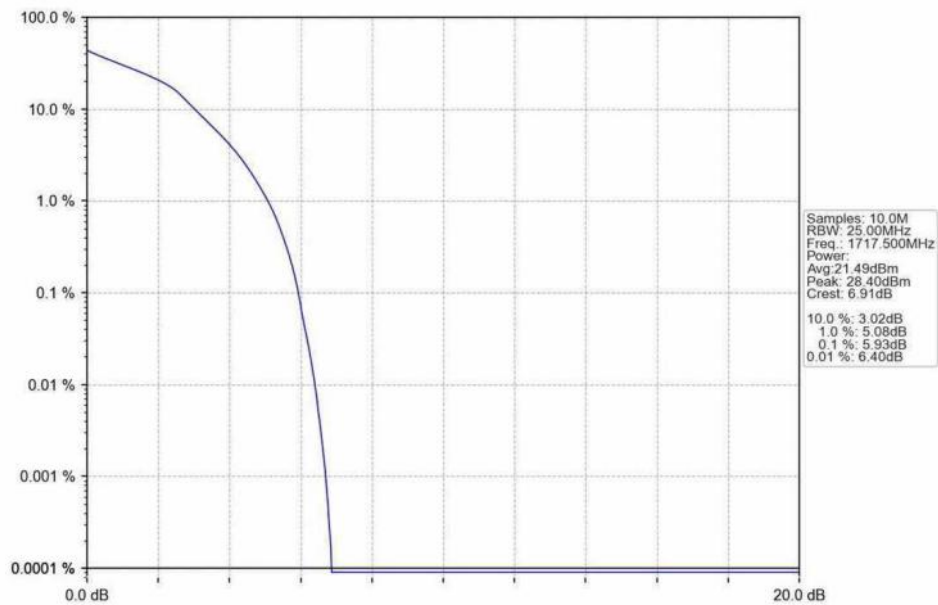
5.2.5 B4_15MHz



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



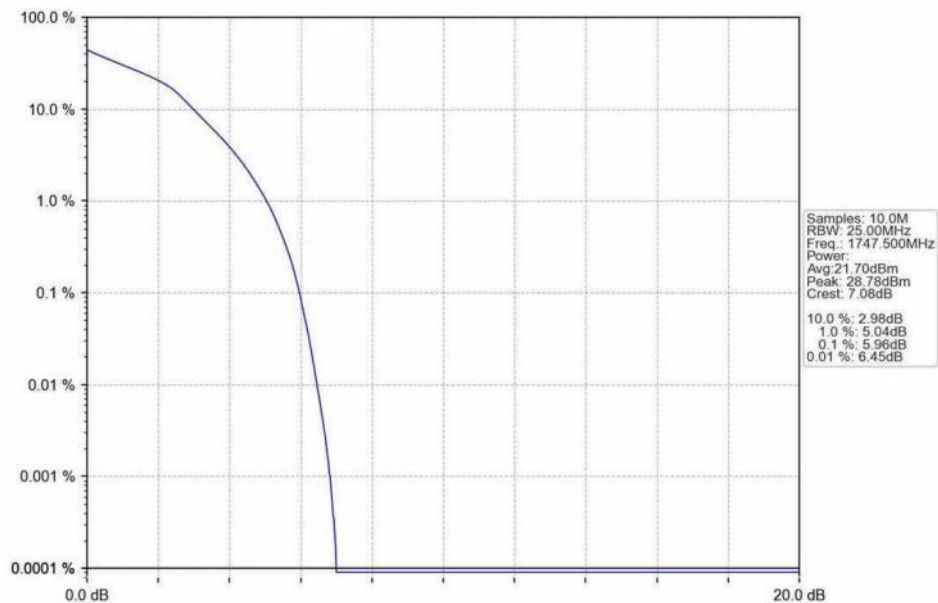
Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



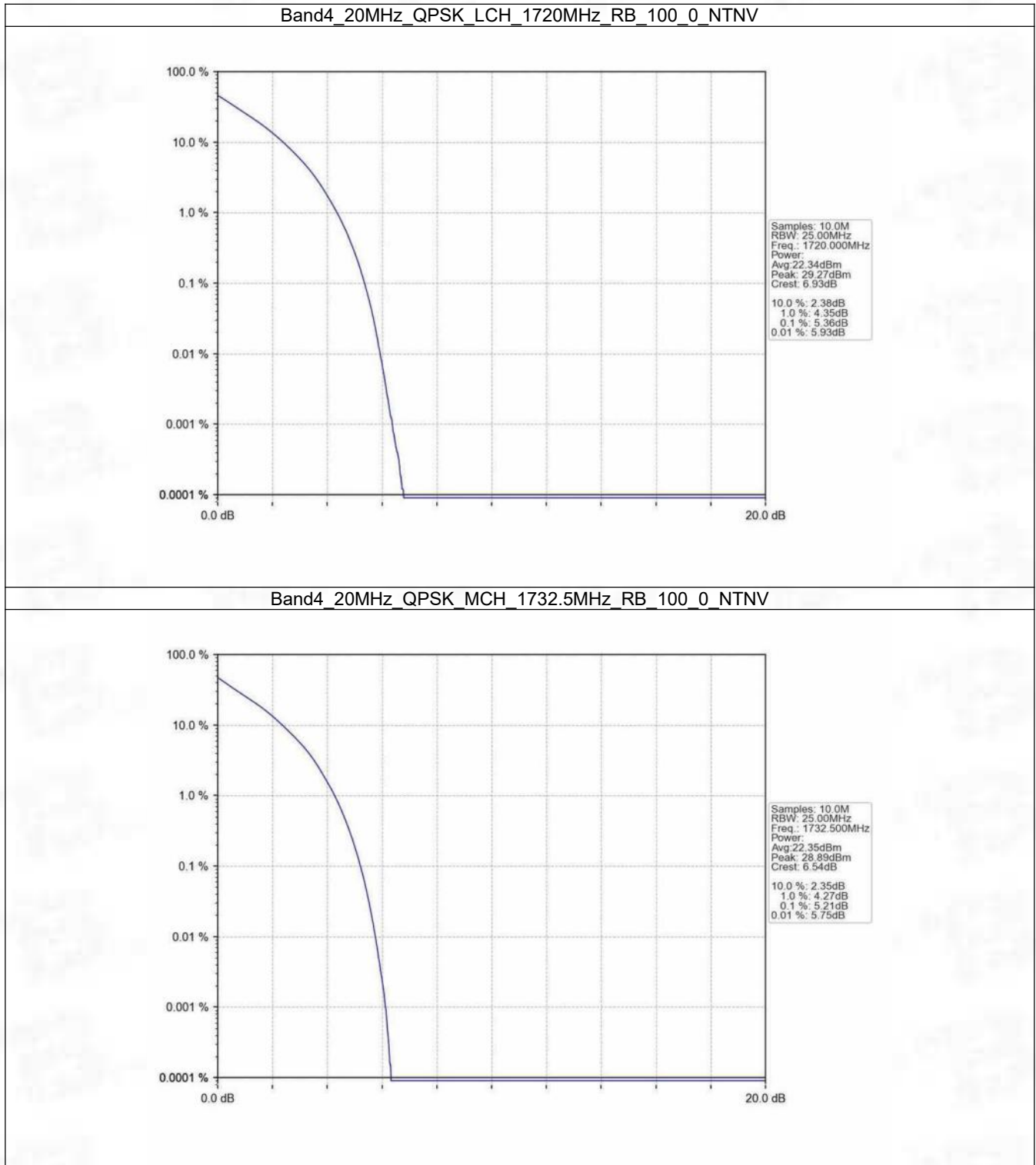
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



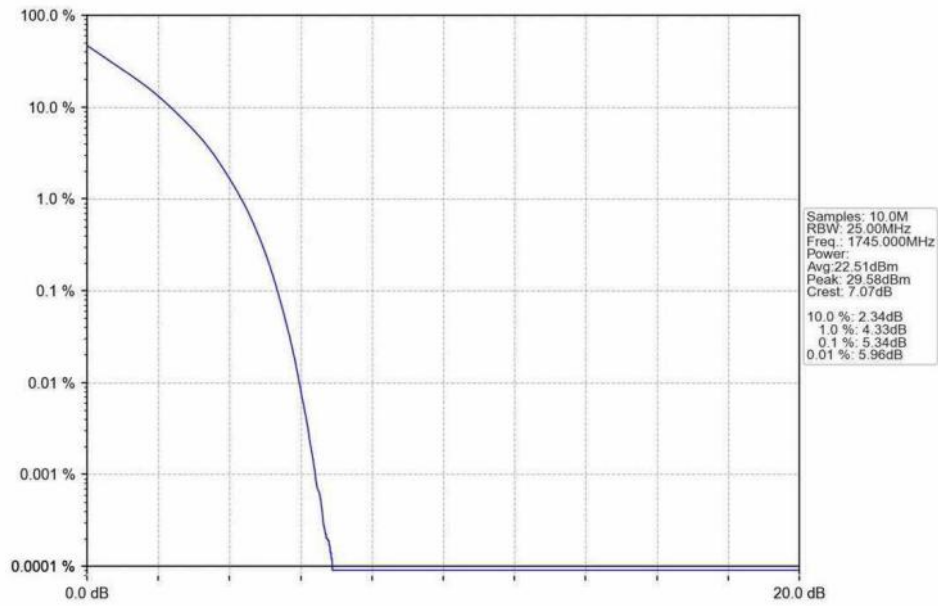
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



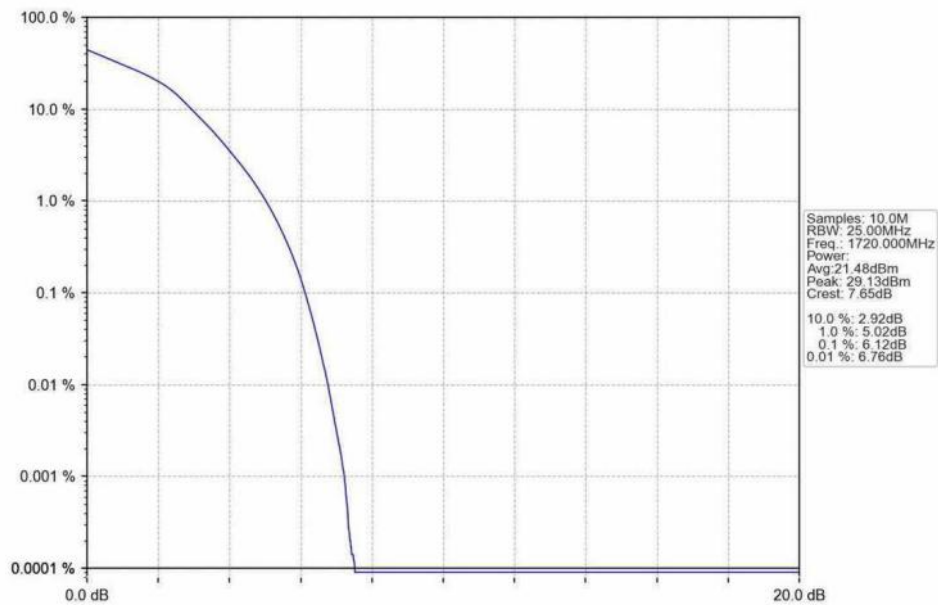
5.2.6 B4_20MHz



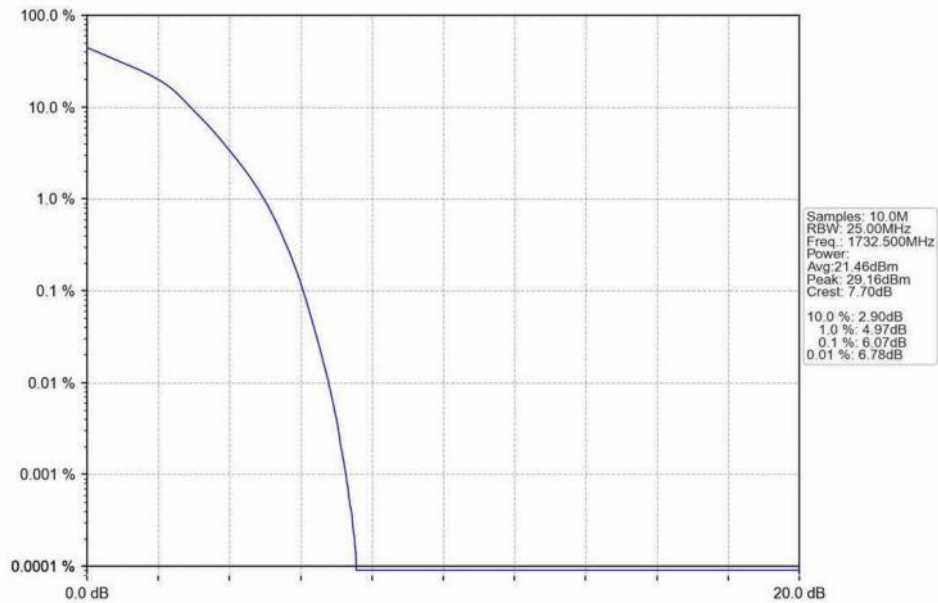
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
16QAM	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

6.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
16QAM	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

6.1.3 B4_5MHz

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

	1732.5	25	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B4_10MHz

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

6.1.5 B4_15MHz

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

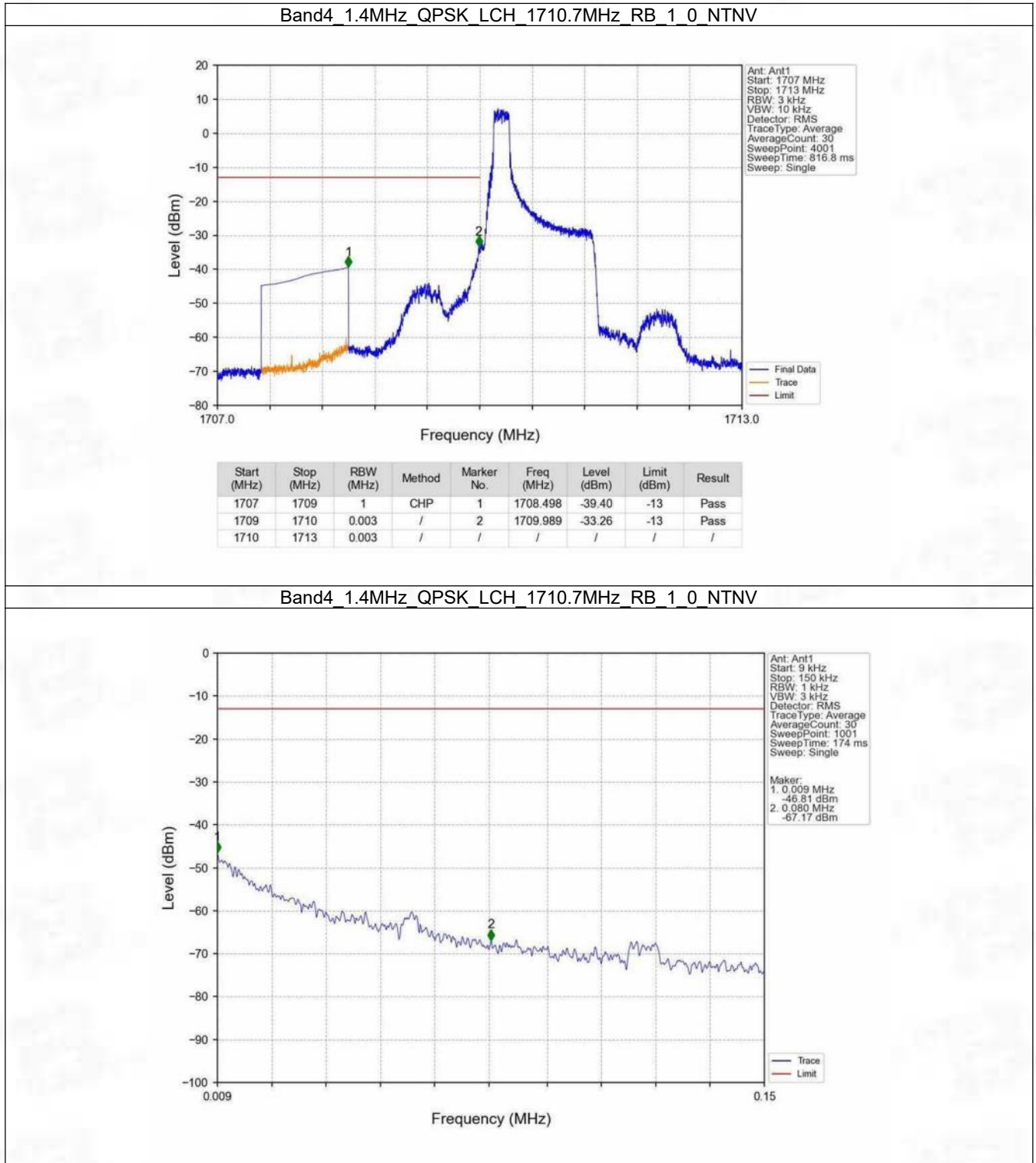
6.1.6 B4_20MHz

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

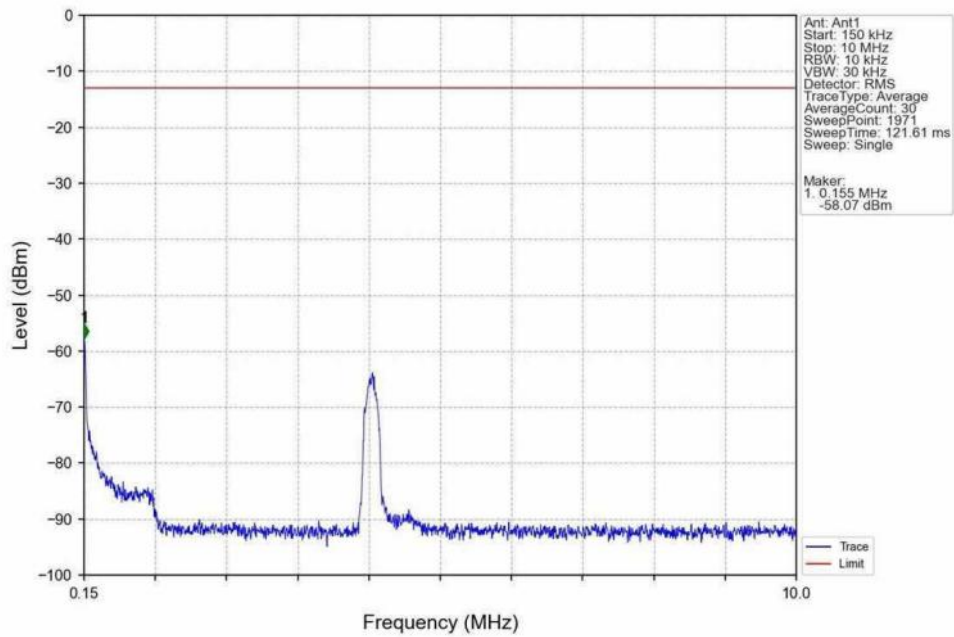
		100	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1745	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

6.2 Test Graph

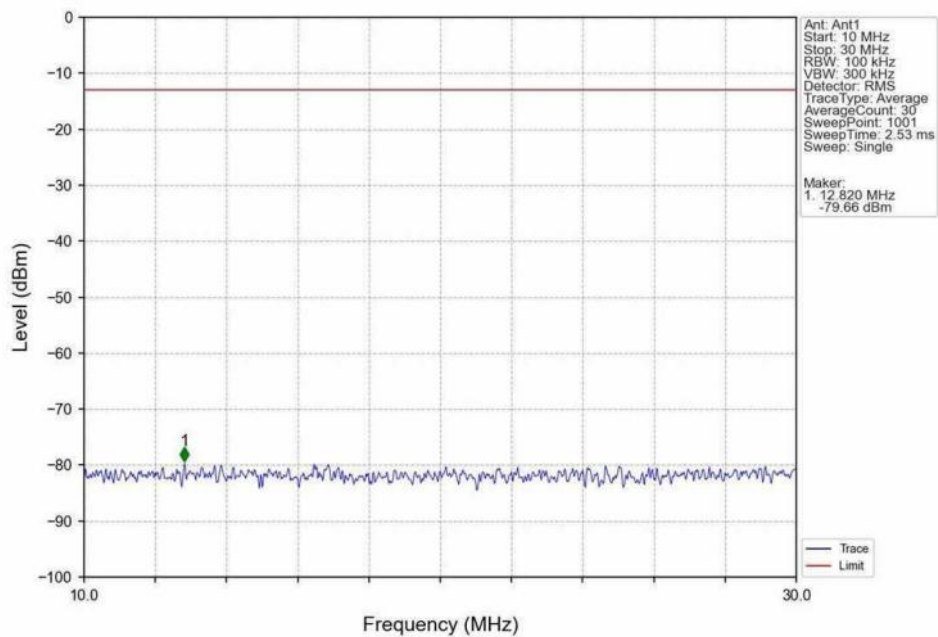
6.2.1 B4_1.4MHz



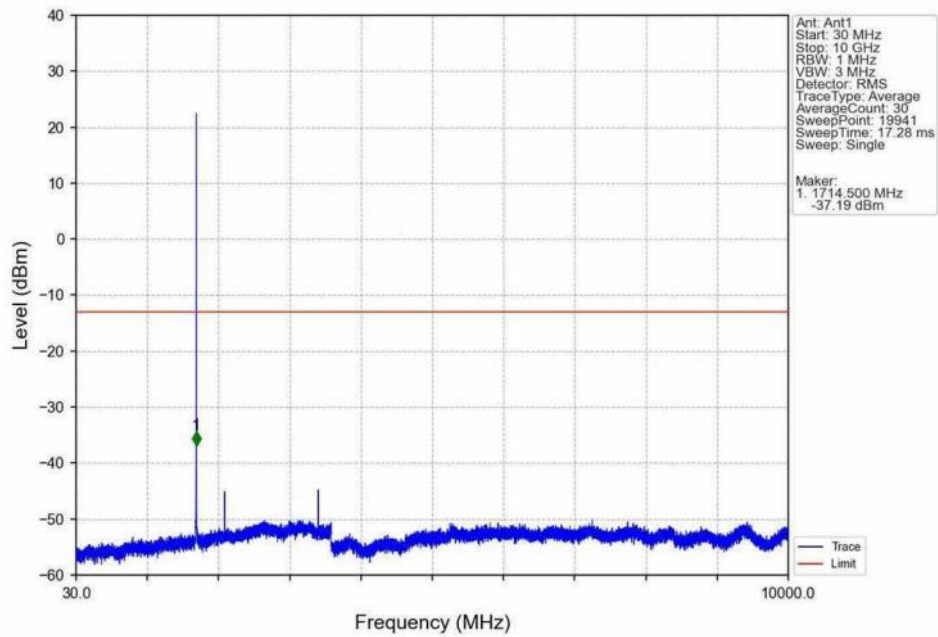
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



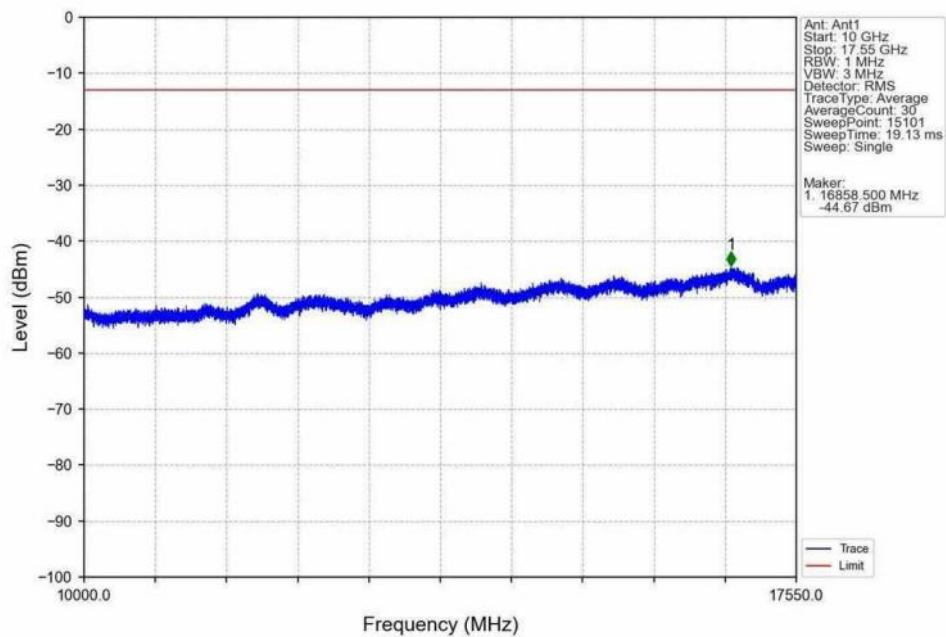
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



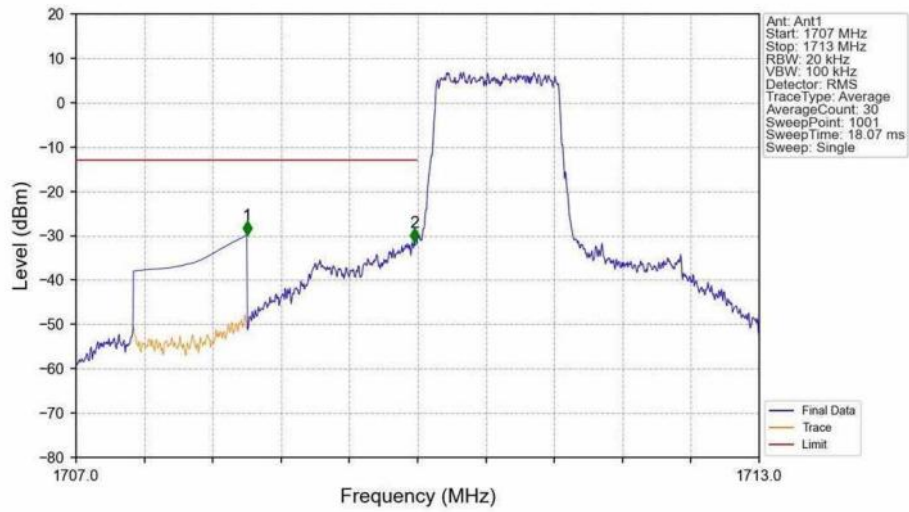
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

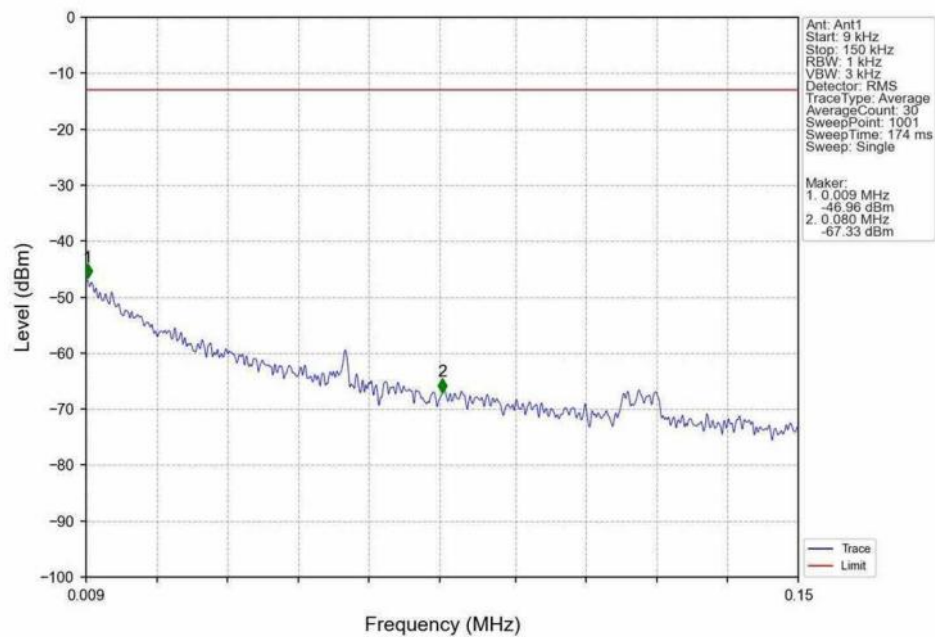


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

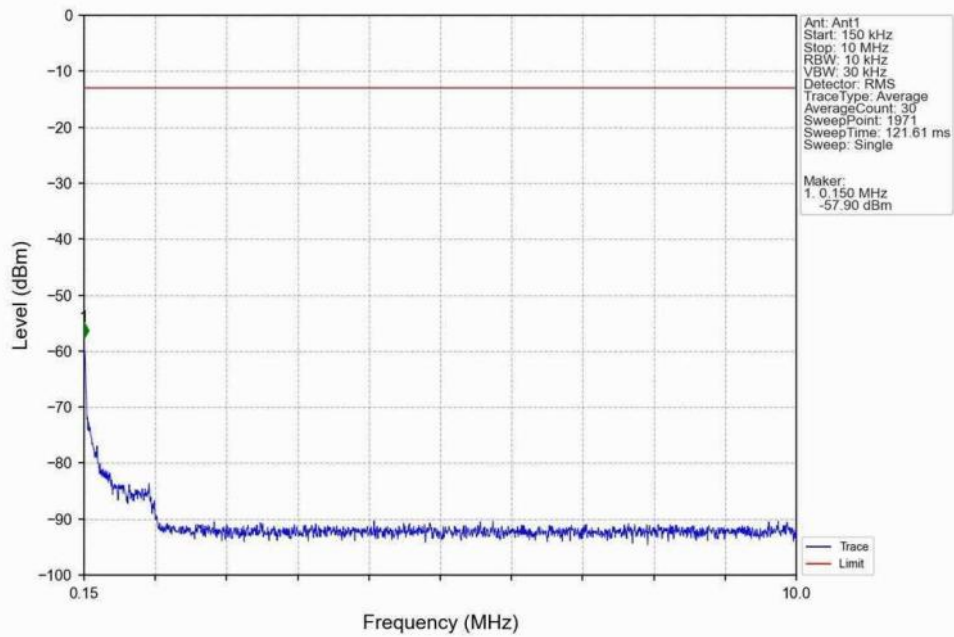


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-29.81	-13	Pass
1709	1710	0.02	/	2	1709.970	-31.48	-13	Pass
1710	1713	0.02	/	/	/	/	/	/

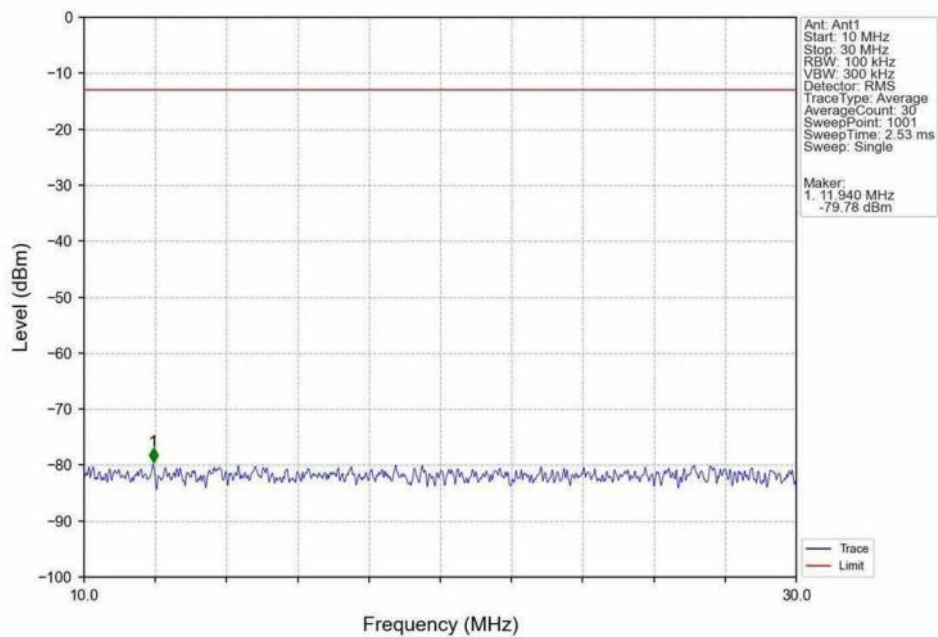
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



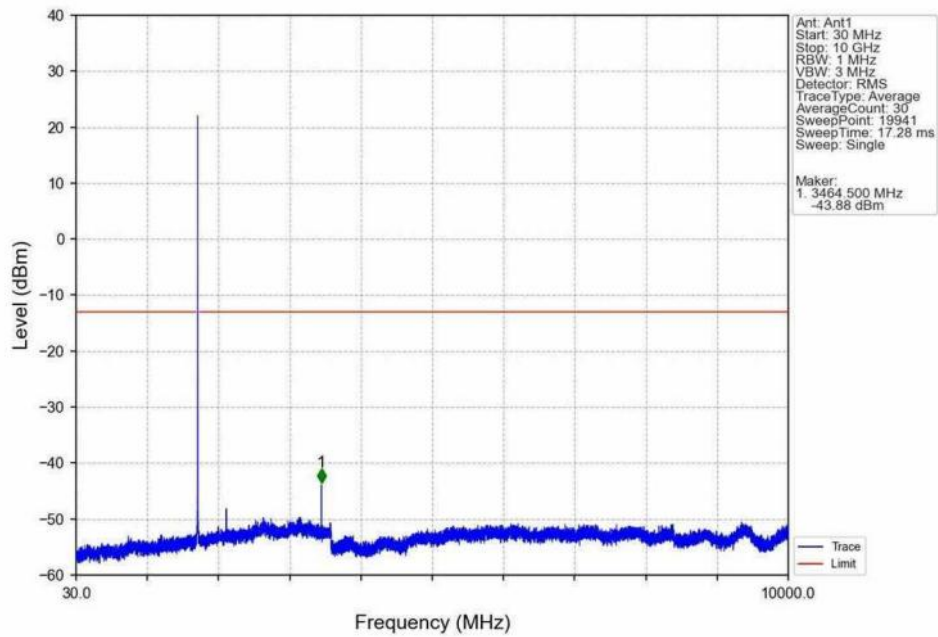
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



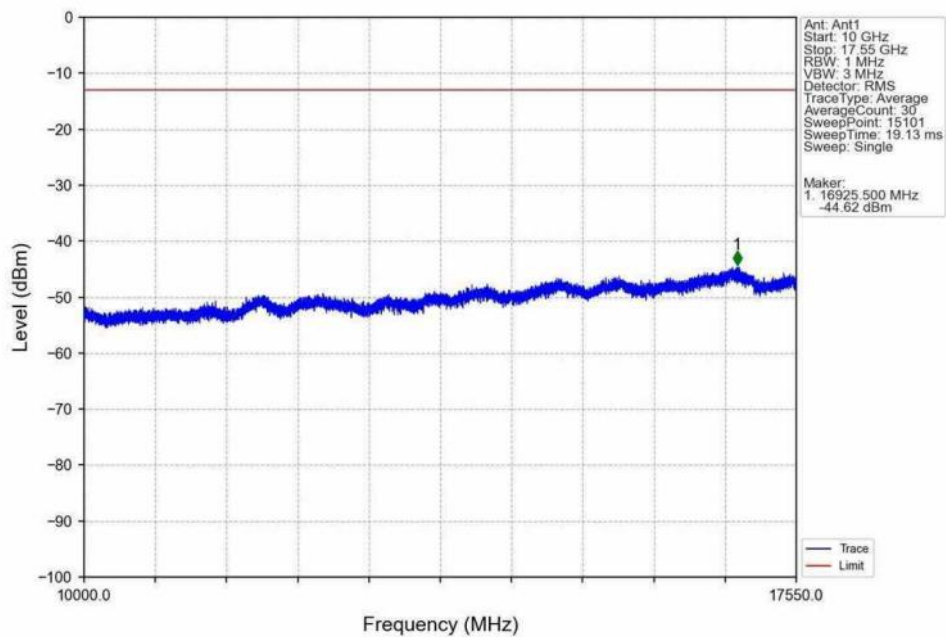
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



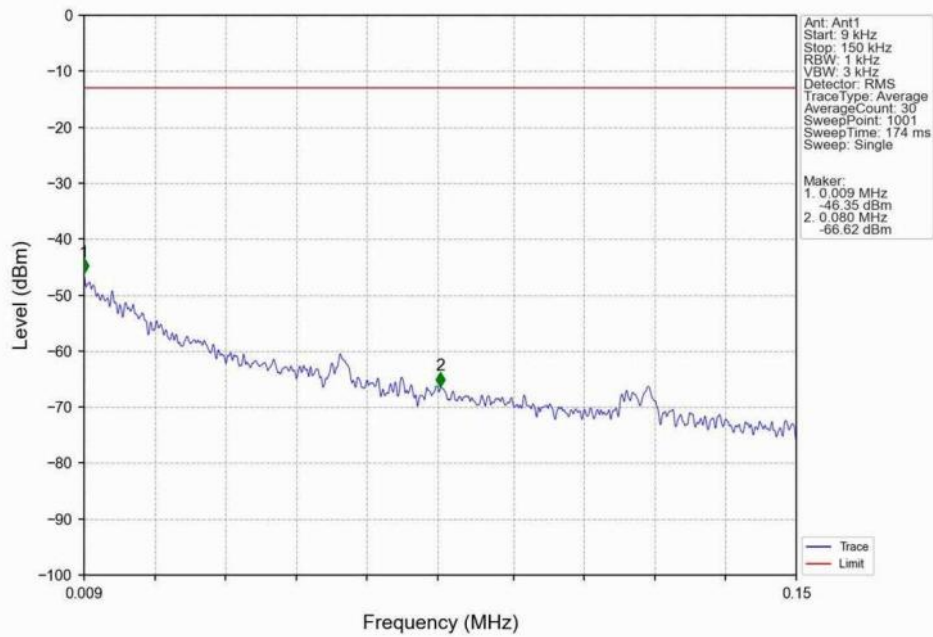
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



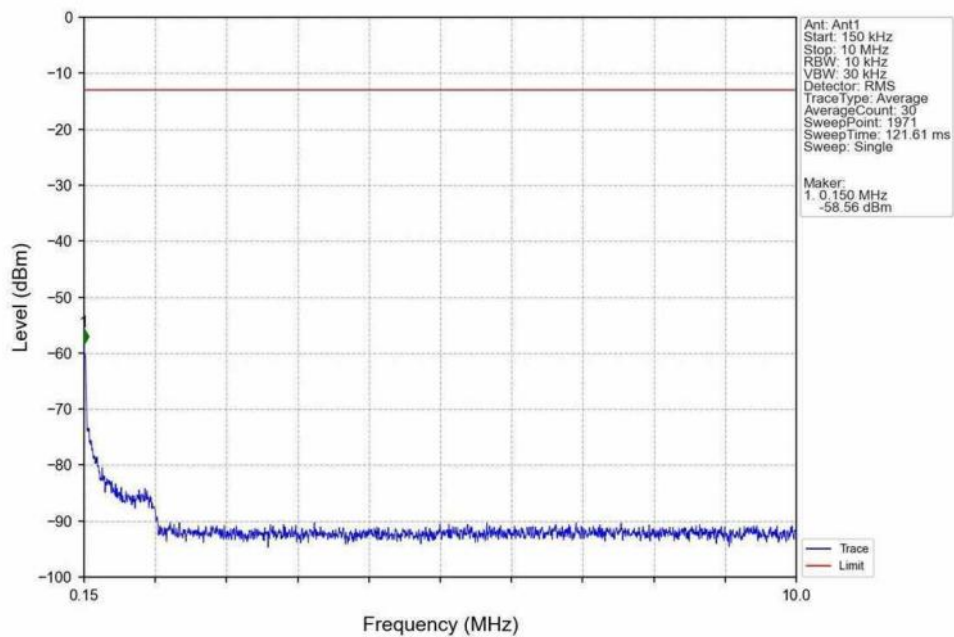
Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



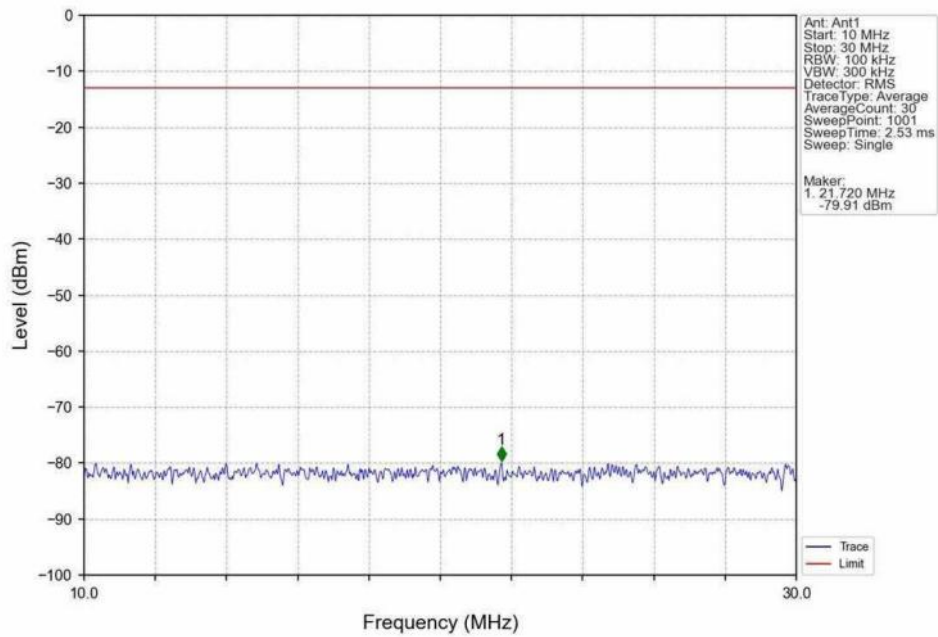
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



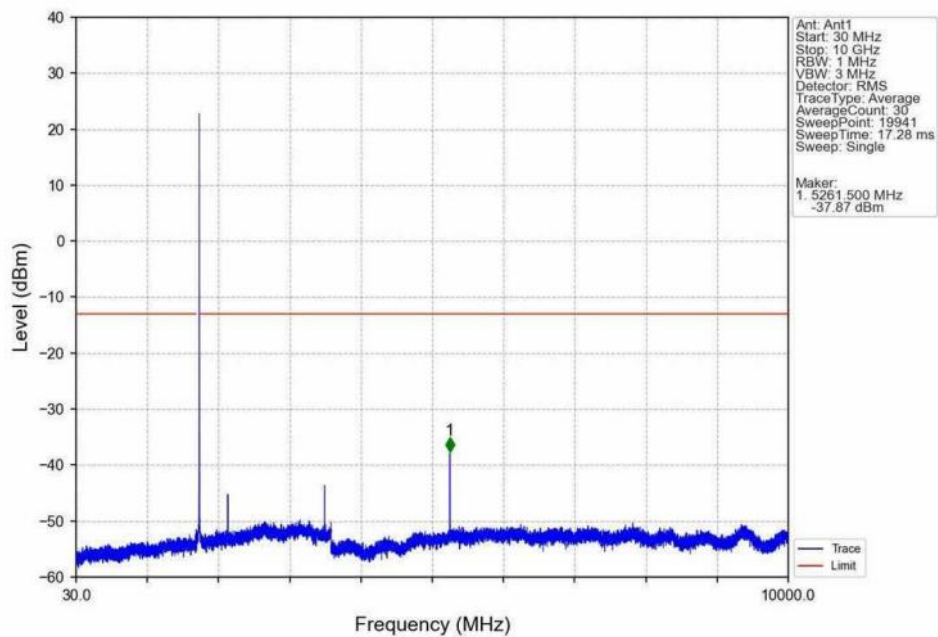
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



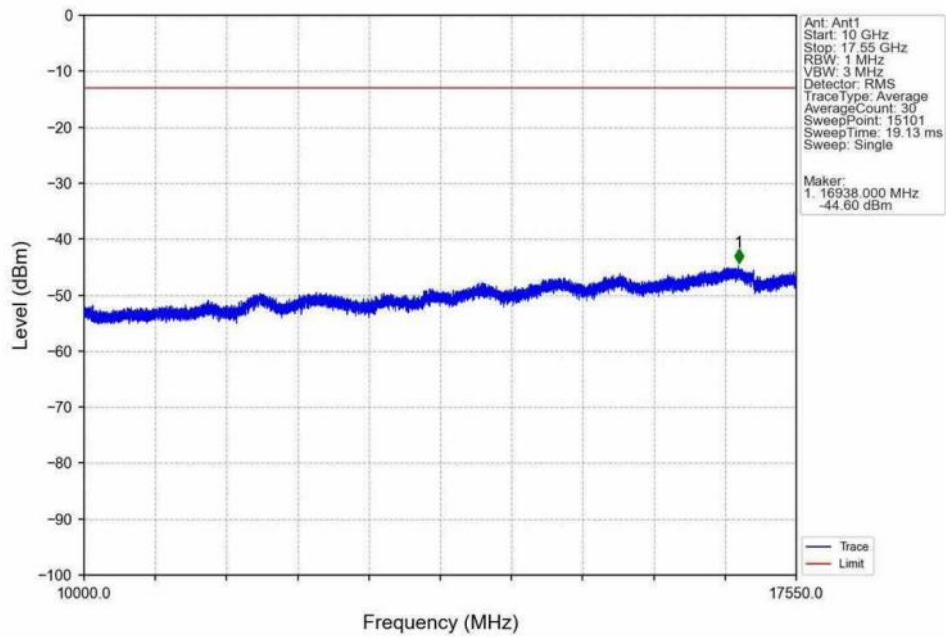
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



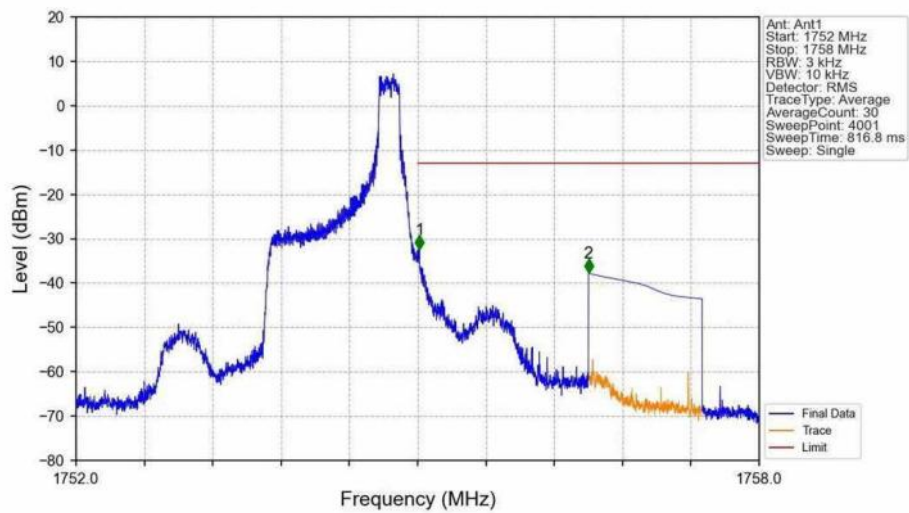
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

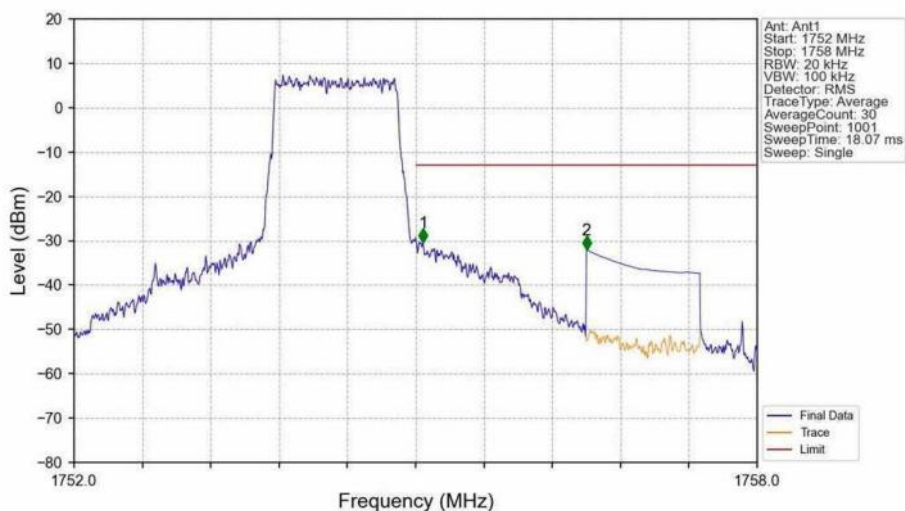


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



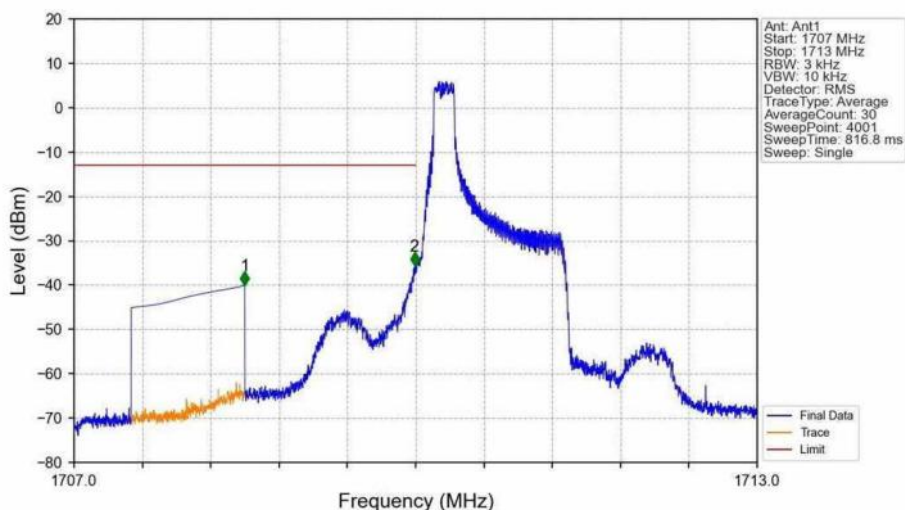
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.015	-32.37	-13	Pass
1756	1758	1	CHP	2	1756.500	-37.74	-13	Pass

Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



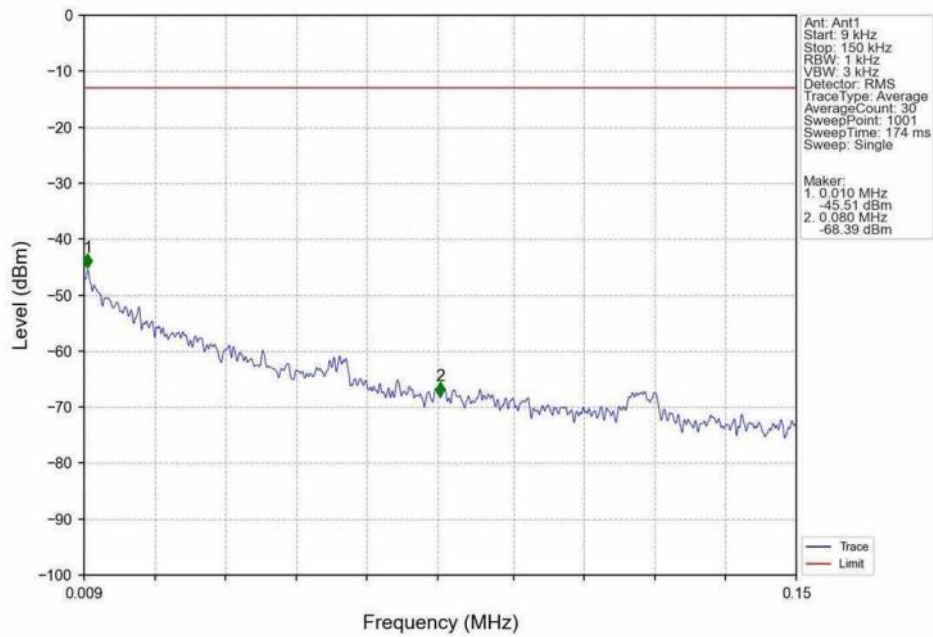
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.02	/	/	/	/	/	/
1755	1756	0.02	/	1	1755.066	-30.38	-13	Pass
1756	1758	1	CHP	2	1756.500	-32.07	-13	Pass

Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

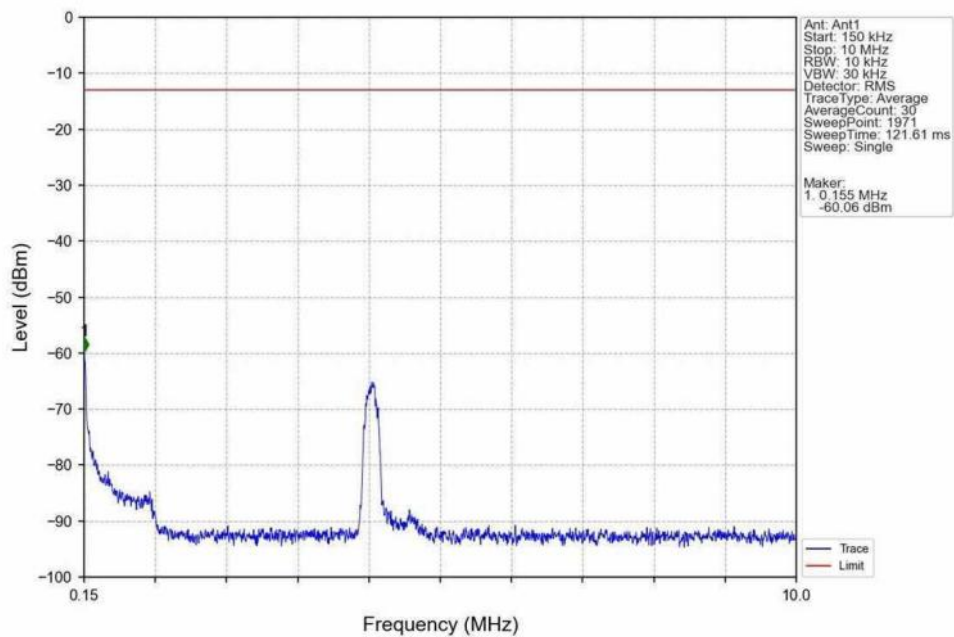


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.498	-40.08	-13	Pass
1709	1710	0.003	/	2	1709.989	-35.69	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

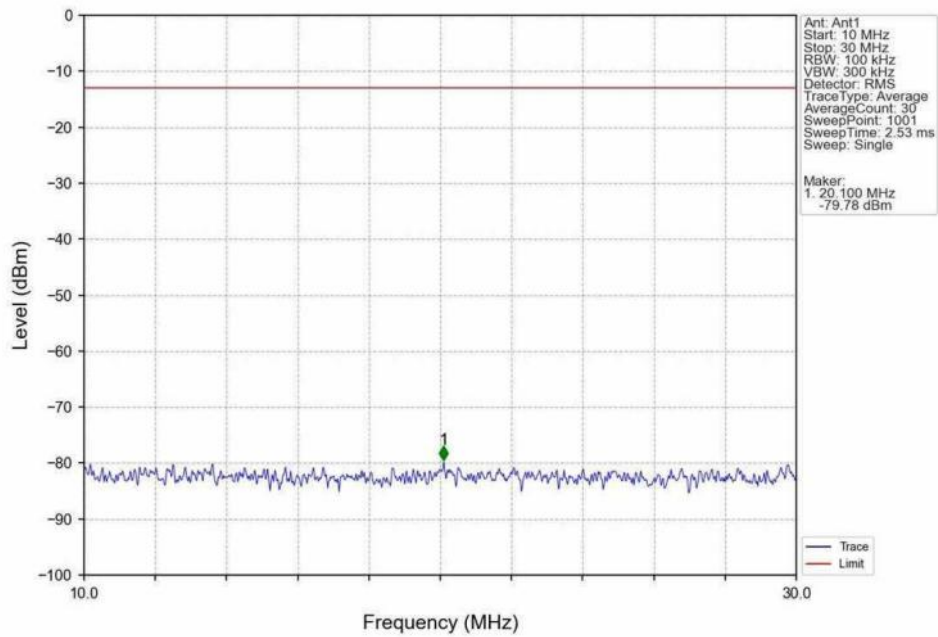
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

