

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	16.33	0.51	16.84	<=30	Pass
			2	16.52	0.51	17.03	<=30	Pass
			5	16.32	0.51	16.83	<=30	Pass
		3	0	16.42	0.51	16.93	<=30	Pass
			2	16.48	0.51	16.99	<=30	Pass
			3	16.43	0.51	16.94	<=30	Pass
		6	0	15.45	0.51	15.96	<=30	Pass
	1732.5	1	0	16.83	0.51	17.34	<=30	Pass
			2	17.06	0.51	17.57	<=30	Pass
			5	16.95	0.51	17.46	<=30	Pass
		3	0	16.96	0.51	17.47	<=30	Pass
			2	17.08	0.51	17.59	<=30	Pass
			3	17.04	0.51	17.55	<=30	Pass
		6	0	16.03	0.51	16.54	<=30	Pass
	1754.3	1	0	17.04	0.51	17.55	<=30	Pass
			2	17.16	0.51	17.67	<=30	Pass
			5	16.89	0.51	17.40	<=30	Pass
		3	0	17.05	0.51	17.56	<=30	Pass
			2	17.06	0.51	17.57	<=30	Pass
			3	16.98	0.51	17.49	<=30	Pass
		6	0	16.00	0.51	16.51	<=30	Pass
16QAM	1710.7	1	0	15.32	0.51	15.83	<=30	Pass
			2	15.54	0.51	16.05	<=30	Pass
			5	15.37	0.51	15.88	<=30	Pass
		3	0	15.53	0.51	16.04	<=30	Pass
			2	15.60	0.51	16.11	<=30	Pass
			3	15.53	0.51	16.04	<=30	Pass
		6	0	14.40	0.51	14.91	<=30	Pass
	1732.5	1	0	16.00	0.51	16.51	<=30	Pass
			2	16.25	0.51	16.76	<=30	Pass
			5	16.12	0.51	16.63	<=30	Pass
		3	0	16.01	0.51	16.52	<=30	Pass
			2	16.12	0.51	16.63	<=30	Pass
			3	16.09	0.51	16.60	<=30	Pass
		6	0	15.01	0.51	15.52	<=30	Pass
	1754.3	1	0	15.91	0.51	16.42	<=30	Pass
			2	16.07	0.51	16.58	<=30	Pass
			5	15.84	0.51	16.35	<=30	Pass
		3	0	16.08	0.51	16.59	<=30	Pass
			2	16.09	0.51	16.60	<=30	Pass
			3	16.00	0.51	16.51	<=30	Pass
		6	0	14.88	0.51	15.39	<=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	16.31	0.51	16.82	<=30	Pass	
			7	16.51	0.51	17.02	<=30	Pass	
			14	16.36	0.51	16.87	<=30	Pass	
		8	0	15.45	0.51	15.96	<=30	Pass	
			4	15.51	0.51	16.02	<=30	Pass	
			7	15.49	0.51	16.00	<=30	Pass	
		15	0	15.45	0.51	15.96	<=30	Pass	
		1732.5	1	0	16.82	0.51	17.33	<=30	Pass
				7	17.11	0.51	17.62	<=30	Pass
	14			17.11	0.51	17.62	<=30	Pass	
	8		0	16.02	0.51	16.53	<=30	Pass	
			4	16.14	0.51	16.65	<=30	Pass	
			7	16.17	0.51	16.68	<=30	Pass	
	15	0	16.10	0.51	16.61	<=30	Pass		
	1753.5	1	0	16.98	0.51	17.49	<=30	Pass	
			7	17.06	0.51	17.57	<=30	Pass	
			14	16.64	0.51	17.15	<=30	Pass	
		8	0	16.12	0.51	16.63	<=30	Pass	
			4	16.10	0.51	16.61	<=30	Pass	
			7	16.03	0.51	16.54	<=30	Pass	
		15	0	16.09	0.51	16.60	<=30	Pass	
16QAM		1711.5	1	0	15.28	0.51	15.79	<=30	Pass
				7	15.52	0.51	16.03	<=30	Pass
	14			15.41	0.51	15.92	<=30	Pass	
	8		0	14.50	0.51	15.01	<=30	Pass	
			4	14.59	0.51	15.10	<=30	Pass	
			7	14.58	0.51	15.09	<=30	Pass	
	15		0	14.60	0.51	15.11	<=30	Pass	
	1732.5		1	0	16.00	0.51	16.51	<=30	Pass
				7	16.30	0.51	16.81	<=30	Pass
		14		16.29	0.51	16.80	<=30	Pass	
		8	0	15.00	0.51	15.51	<=30	Pass	
			4	15.11	0.51	15.62	<=30	Pass	
			7	15.16	0.51	15.67	<=30	Pass	
	15	0	15.07	0.51	15.58	<=30	Pass		
	1753.5	1	0	16.62	0.51	17.13	<=30	Pass	
			7	16.70	0.51	17.21	<=30	Pass	
			14	16.39	0.51	16.90	<=30	Pass	
		8	0	15.20	0.51	15.71	<=30	Pass	
			4	15.19	0.51	15.70	<=30	Pass	
			7	15.11	0.51	15.62	<=30	Pass	
		15	0	15.08	0.51	15.59	<=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	15.87	0.51	16.38	<=30	Pass
			13	16.63	0.51	17.14	<=30	Pass
			24	16.17	0.51	16.68	<=30	Pass
		12	0	15.35	0.51	15.86	<=30	Pass
			6	15.53	0.51	16.04	<=30	Pass
			13	15.43	0.51	15.94	<=30	Pass

16QAM	1732.5	25	0	15.38	0.51	15.89	<=30	Pass
			0	16.46	0.51	16.97	<=30	Pass
		1	13	17.11	0.51	17.62	<=30	Pass
			24	16.81	0.51	17.32	<=30	Pass
		12	0	15.83	0.51	16.34	<=30	Pass
			6	16.06	0.51	16.57	<=30	Pass
			13	16.07	0.51	16.58	<=30	Pass
		25	0	15.97	0.51	16.48	<=30	Pass
	1752.5	1	0	16.65	0.51	17.16	<=30	Pass
			13	17.05	0.51	17.56	<=30	Pass
			24	16.26	0.51	16.77	<=30	Pass
		12	0	15.98	0.51	16.49	<=30	Pass
			6	16.06	0.51	16.57	<=30	Pass
			13	15.84	0.51	16.35	<=30	Pass
		25	0	15.92	0.51	16.43	<=30	Pass
	1712.5	1	0	15.04	0.51	15.55	<=30	Pass
			13	15.68	0.51	16.19	<=30	Pass
			24	15.21	0.51	15.72	<=30	Pass
		12	0	14.36	0.51	14.87	<=30	Pass
			6	14.56	0.51	15.07	<=30	Pass
			13	14.47	0.51	14.98	<=30	Pass
		25	0	14.46	0.51	14.97	<=30	Pass
	1732.5	1	0	15.73	0.51	16.24	<=30	Pass
			13	16.39	0.51	16.90	<=30	Pass
			24	16.11	0.51	16.62	<=30	Pass
		12	0	14.88	0.51	15.39	<=30	Pass
			6	15.09	0.51	15.60	<=30	Pass
			13	15.11	0.51	15.62	<=30	Pass
		25	0	14.97	0.51	15.48	<=30	Pass
	1752.5	1	0	15.59	0.51	16.10	<=30	Pass
			13	15.96	0.51	16.47	<=30	Pass
			24	15.29	0.51	15.80	<=30	Pass
		12	0	14.92	0.51	15.43	<=30	Pass
			6	15.00	0.51	15.51	<=30	Pass
			13	14.77	0.51	15.28	<=30	Pass
		25	0	14.87	0.51	15.38	<=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	16.31	0.51	16.82	<=30	Pass
			25	16.71	0.51	17.22	<=30	Pass
			49	17.08	0.51	17.59	<=30	Pass
		25	0	15.53	0.51	16.04	<=30	Pass
			13	15.72	0.51	16.23	<=30	Pass
			25	15.89	0.51	16.40	<=30	Pass
		50	0	15.70	0.51	16.21	<=30	Pass
	1732.5	1	0	16.54	0.51	17.05	<=30	Pass
			25	16.96	0.51	17.47	<=30	Pass
			49	17.42	0.51	17.93	<=30	Pass
		25	0	15.84	0.51	16.35	<=30	Pass
			13	16.09	0.51	16.60	<=30	Pass
			25	16.41	0.51	16.92	<=30	Pass
		50	0	16.14	0.51	16.65	<=30	Pass
	1750	1	0	16.90	0.51	17.41	<=30	Pass

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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>

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16QAM			25	16.98	0.51	17.49	<=30	Pass
			49	16.93	0.51	17.44	<=30	Pass
		25	0	16.18	0.51	16.69	<=30	Pass
			13	16.15	0.51	16.66	<=30	Pass
			25	16.22	0.51	16.73	<=30	Pass
		50	0	16.20	0.51	16.71	<=30	Pass
	1715	1	0	15.14	0.51	15.65	<=30	Pass
			25	15.65	0.51	16.16	<=30	Pass
			49	15.95	0.51	16.46	<=30	Pass
		25	0	14.69	0.51	15.20	<=30	Pass
			13	14.86	0.51	15.37	<=30	Pass
			25	15.07	0.51	15.58	<=30	Pass
		50	0	14.82	0.51	15.33	<=30	Pass
	1732.5	1	0	15.73	0.51	16.24	<=30	Pass
			25	16.14	0.51	16.65	<=30	Pass
			49	16.62	0.51	17.13	<=30	Pass
		25	0	14.93	0.51	15.44	<=30	Pass
			13	15.14	0.51	15.65	<=30	Pass
			25	15.50	0.51	16.01	<=30	Pass
		50	0	15.21	0.51	15.72	<=30	Pass
	1750	1	0	16.66	0.51	17.17	<=30	Pass
			25	16.62	0.51	17.13	<=30	Pass
			49	16.69	0.51	17.20	<=30	Pass
		25	0	15.17	0.51	15.68	<=30	Pass
			13	15.14	0.51	15.65	<=30	Pass
			25	15.22	0.51	15.73	<=30	Pass
		50	0	15.17	0.51	15.68	<=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	16.48	0.51	16.99	<=30	Pass
			38	16.67	0.51	17.18	<=30	Pass
			74	16.98	0.51	17.49	<=30	Pass
		36	0	15.67	0.51	16.18	<=30	Pass
			18	15.70	0.51	16.21	<=30	Pass
			39	15.90	0.51	16.41	<=30	Pass
		75	0	15.77	0.51	16.28	<=30	Pass
	1732.5	1	0	16.61	0.51	17.12	<=30	Pass
			38	16.94	0.51	17.45	<=30	Pass
			74	17.25	0.51	17.76	<=30	Pass
		36	0	15.94	0.51	16.45	<=30	Pass
			18	16.02	0.51	16.53	<=30	Pass
			39	16.34	0.51	16.85	<=30	Pass
		75	0	16.13	0.51	16.64	<=30	Pass
	1747.5	1	0	16.77	0.51	17.28	<=30	Pass
			38	16.70	0.51	17.21	<=30	Pass
			74	16.50	0.51	17.01	<=30	Pass
		36	0	15.98	0.51	16.49	<=30	Pass
			18	15.85	0.51	16.36	<=30	Pass
			39	15.77	0.51	16.28	<=30	Pass
		75	0	15.88	0.51	16.39	<=30	Pass
16QAM	1717.5	1	0	15.75	0.51	16.26	<=30	Pass
			38	16.03	0.51	16.54	<=30	Pass
			74	16.31	0.51	16.82	<=30	Pass

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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>

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		36	0	14.65	0.51	15.16	<=30	Pass
			18	14.70	0.51	15.21	<=30	Pass
			39	14.89	0.51	15.40	<=30	Pass
		75	0	14.77	0.51	15.28	<=30	Pass
	1732.5	1	0	15.83	0.51	16.34	<=30	Pass
			38	16.13	0.51	16.64	<=30	Pass
			74	16.49	0.51	17.00	<=30	Pass
		36	0	14.94	0.51	15.45	<=30	Pass
			18	15.04	0.51	15.55	<=30	Pass
			39	15.36	0.51	15.87	<=30	Pass
		75	0	15.16	0.51	15.67	<=30	Pass
	1747.5	1	0	16.38	0.51	16.89	<=30	Pass
			38	16.30	0.51	16.81	<=30	Pass
			74	16.10	0.51	16.61	<=30	Pass
		36	0	14.92	0.51	15.43	<=30	Pass
			18	14.81	0.51	15.32	<=30	Pass
			39	14.71	0.51	15.22	<=30	Pass
	75	0	14.79	0.51	15.30	<=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	16.94	0.51	17.45	<=30	Pass
			50	16.78	0.51	17.29	<=30	Pass
			99	17.58	0.51	18.09	<=30	Pass
		50	0	15.95	0.51	16.46	<=30	Pass
			25	15.94	0.51	16.45	<=30	Pass
			50	16.30	0.51	16.81	<=30	Pass
	1732.5	100	0	16.10	0.51	16.61	<=30	Pass
		1	0	16.90	0.51	17.41	<=30	Pass
			50	16.90	0.51	17.41	<=30	Pass
			99	17.64	0.51	18.15	<=30	Pass
		50	0	16.04	0.51	16.55	<=30	Pass
			25	16.12	0.51	16.63	<=30	Pass
			50	16.51	0.51	17.02	<=30	Pass
		100	0	16.28	0.51	16.79	<=30	Pass
	1745	1	0	17.26	0.51	17.77	<=30	Pass
			50	16.88	0.51	17.39	<=30	Pass
			99	17.08	0.51	17.59	<=30	Pass
		50	0	16.14	0.51	16.65	<=30	Pass
			25	15.99	0.51	16.50	<=30	Pass
			50	16.11	0.51	16.62	<=30	Pass
		100	0	16.12	0.51	16.63	<=30	Pass
16QAM	1720	1	0	16.43	0.51	16.94	<=30	Pass
			50	16.35	0.51	16.86	<=30	Pass
			99	17.12	0.51	17.63	<=30	Pass
		50	0	15.01	0.51	15.52	<=30	Pass
			25	14.99	0.51	15.50	<=30	Pass
			50	15.33	0.51	15.84	<=30	Pass
	1732.5	100	0	15.18	0.51	15.69	<=30	Pass
		1	0	16.23	0.51	16.74	<=30	Pass
			50	16.15	0.51	16.66	<=30	Pass
			99	16.96	0.51	17.47	<=30	Pass
		50	0	15.07	0.51	15.58	<=30	Pass
			25	15.15	0.51	15.66	<=30	Pass

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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>

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		100	50	15.53	0.51	16.04	<=30	Pass
			0	15.29	0.51	15.80	<=30	Pass
	1745	1	0	16.55	0.51	17.06	<=30	Pass
			50	16.18	0.51	16.69	<=30	Pass
			99	16.37	0.51	16.88	<=30	Pass
	50		0	15.06	0.51	15.57	<=30	Pass
			25	14.94	0.51	15.45	<=30	Pass
			50	15.01	0.51	15.52	<=30	Pass
	100		0	15.05	0.51	15.56	<=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	29.082	0.0170	-2.5 to 2.5	Pass
					3.85	13.032	0.0076	-2.5 to 2.5	Pass
					4.43	17.052	0.0100	-2.5 to 2.5	Pass
				-30	3.85	23.274	0.0136	-2.5 to 2.5	Pass
				-20	3.85	5.336	0.0031	-2.5 to 2.5	Pass
				-10	3.85	-2.832	-0.0017	-2.5 to 2.5	Pass
				0	3.85	16.408	0.0096	-2.5 to 2.5	Pass
				10	3.85	22.216	0.0130	-2.5 to 2.5	Pass
				30	3.85	22.573	0.0132	-2.5 to 2.5	Pass
				40	3.85	4.091	0.0024	-2.5 to 2.5	Pass
	50	3.85	-31.915	-0.0187	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	15.907	0.0092	-2.5 to 2.5	Pass
					3.85	25.506	0.0147	-2.5 to 2.5	Pass
					4.43	35.391	0.0204	-2.5 to 2.5	Pass
				-30	3.85	-6.094	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	5.207	0.0030	-2.5 to 2.5	Pass
				-10	3.85	8.054	0.0046	-2.5 to 2.5	Pass
				0	3.85	8.469	0.0049	-2.5 to 2.5	Pass
				10	3.85	10.843	0.0063	-2.5 to 2.5	Pass
				30	3.85	-16.179	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-32.673	-0.0189	-2.5 to 2.5	Pass
	50	3.85	-27.237	-0.0157	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	21.729	0.0124	-2.5 to 2.5	Pass
					3.85	33.474	0.0191	-2.5 to 2.5	Pass
					4.43	38.910	0.0222	-2.5 to 2.5	Pass
				-30	3.85	46.048	0.0262	-2.5 to 2.5	Pass
				-20	3.85	1.688	0.0010	-2.5 to 2.5	Pass
				-10	3.85	5.107	0.0029	-2.5 to 2.5	Pass
				0	3.85	-9.055	-0.0052	-2.5 to 2.5	Pass
				10	3.85	-17.910	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-9.341	-0.0053	-2.5 to 2.5	Pass
40				3.85	4.578	0.0026	-2.5 to 2.5	Pass	
50				3.85	10.300	0.0059	-2.5 to 2.5	Pass	
16QAM	1710.7	6	0	20	3.27	22.016	0.0129	-2.5 to 2.5	Pass
					3.85	41.227	0.0241	-2.5 to 2.5	Pass
					4.43	21.429	0.0125	-2.5 to 2.5	Pass

				-30	3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	28.396	0.0166	-2.5 to 2.5	Pass
				-10	3.85	20.313	0.0119	-2.5 to 2.5	Pass
				0	3.85	5.136	0.0030	-2.5 to 2.5	Pass
				10	3.85	4.220	0.0025	-2.5 to 2.5	Pass
				30	3.85	28.596	0.0167	-2.5 to 2.5	Pass
				40	3.85	6.638	0.0039	-2.5 to 2.5	Pass
				50	3.85	22.917	0.0134	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	-10.228	-0.0059	-2.5 to 2.5	Pass
					3.85	-8.411	-0.0049	-2.5 to 2.5	Pass
					4.43	3.219	0.0019	-2.5 to 2.5	Pass
				-30	3.85	21.057	0.0122	-2.5 to 2.5	Pass
				-20	3.85	31.385	0.0181	-2.5 to 2.5	Pass
				-10	3.85	9.785	0.0056	-2.5 to 2.5	Pass
				0	3.85	14.949	0.0086	-2.5 to 2.5	Pass
				10	3.85	15.020	0.0087	-2.5 to 2.5	Pass
				30	3.85	26.221	0.0151	-2.5 to 2.5	Pass
				40	3.85	6.924	0.0040	-2.5 to 2.5	Pass
				50	3.85	23.761	0.0137	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	24.304	0.0139	-2.5 to 2.5	Pass
					3.85	32.129	0.0183	-2.5 to 2.5	Pass
					4.43	35.992	0.0205	-2.5 to 2.5	Pass
				-30	3.85	13.289	0.0076	-2.5 to 2.5	Pass
				-20	3.85	11.158	0.0064	-2.5 to 2.5	Pass
				-10	3.85	-35.377	-0.0202	-2.5 to 2.5	Pass
				0	3.85	-26.236	-0.0150	-2.5 to 2.5	Pass
				10	3.85	-25.434	-0.0145	-2.5 to 2.5	Pass
				30	3.85	-21.772	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-12.116	-0.0069	-2.5 to 2.5	Pass
				50	3.85	-8.197	-0.0047	-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	-18.311	-0.0107	-2.5 to 2.5	Pass
					3.85	-17.710	-0.0103	-2.5 to 2.5	Pass
					4.43	-0.472	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-7.296	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-32.644	-0.0191	-2.5 to 2.5	Pass
				-10	3.85	-16.494	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-21.687	-0.0127	-2.5 to 2.5	Pass
				10	3.85	-5.236	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-10.242	-0.0060	-2.5 to 2.5	Pass
				40	3.85	-17.009	-0.0099	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.85	-31.157	-0.0182	-2.5 to 2.5	Pass
					3.27	19.741	0.0114	-2.5 to 2.5	Pass
					3.85	39.625	0.0229	-2.5 to 2.5	Pass
					4.43	23.017	0.0133	-2.5 to 2.5	Pass
				-30	3.85	25.506	0.0147	-2.5 to 2.5	Pass
				-20	3.85	6.237	0.0036	-2.5 to 2.5	Pass
				-10	3.85	27.051	0.0156	-2.5 to 2.5	Pass
				0	3.85	11.072	0.0064	-2.5 to 2.5	Pass
				10	3.85	32.601	0.0188	-2.5 to 2.5	Pass
				30	3.85	12.774	0.0074	-2.5 to 2.5	Pass
				40	3.85	22.845	0.0132	-2.5 to 2.5	Pass
				50	3.85	35.563	0.0205	-2.5 to 2.5	Pass

16QAM	1753.5	15	0	20	3.27	1.345	0.0008	-2.5 to 2.5	Pass
					3.85	25.191	0.0144	-2.5 to 2.5	Pass
					4.43	22.845	0.0130	-2.5 to 2.5	Pass
				-30	3.85	31.214	0.0178	-2.5 to 2.5	Pass
				-20	3.85	11.430	0.0065	-2.5 to 2.5	Pass
				-10	3.85	23.675	0.0135	-2.5 to 2.5	Pass
				0	3.85	27.952	0.0159	-2.5 to 2.5	Pass
				10	3.85	8.755	0.0050	-2.5 to 2.5	Pass
				30	3.85	19.169	0.0109	-2.5 to 2.5	Pass
				40	3.85	22.888	0.0131	-2.5 to 2.5	Pass
				50	3.85	28.610	0.0163	-2.5 to 2.5	Pass
	1711.5	15	0	20	3.27	-23.017	-0.0134	-2.5 to 2.5	Pass
					3.85	33.202	0.0194	-2.5 to 2.5	Pass
					4.43	11.759	0.0069	-2.5 to 2.5	Pass
				-30	3.85	40.541	0.0237	-2.5 to 2.5	Pass
				-20	3.85	26.522	0.0155	-2.5 to 2.5	Pass
				-10	3.85	31.943	0.0187	-2.5 to 2.5	Pass
				0	3.85	40.455	0.0236	-2.5 to 2.5	Pass
				10	3.85	16.809	0.0098	-2.5 to 2.5	Pass
				30	3.85	-3.877	-0.0023	-2.5 to 2.5	Pass
				40	3.85	9.441	0.0055	-2.5 to 2.5	Pass
				50	3.85	37.866	0.0221	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	46.277	0.0267	-2.5 to 2.5	Pass
					3.85	7.095	0.0041	-2.5 to 2.5	Pass
					4.43	21.229	0.0123	-2.5 to 2.5	Pass
				-30	3.85	-8.655	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	9.084	0.0052	-2.5 to 2.5	Pass
				-10	3.85	29.898	0.0173	-2.5 to 2.5	Pass
				0	3.85	13.804	0.0080	-2.5 to 2.5	Pass
				10	3.85	-6.151	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-21.830	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-1.101	-0.0006	-2.5 to 2.5	Pass
				50	3.85	26.793	0.0155	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	1.202	0.0007	-2.5 to 2.5	Pass
					3.85	1.688	0.0010	-2.5 to 2.5	Pass
					4.43	10.486	0.0060	-2.5 to 2.5	Pass
				-30	3.85	27.580	0.0157	-2.5 to 2.5	Pass
				-20	3.85	45.533	0.0260	-2.5 to 2.5	Pass
				-10	3.85	-3.977	-0.0023	-2.5 to 2.5	Pass
				0	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				10	3.85	16.608	0.0095	-2.5 to 2.5	Pass
				30	3.85	35.820	0.0204	-2.5 to 2.5	Pass
				40	3.85	19.226	0.0110	-2.5 to 2.5	Pass
				50	3.85	46.978	0.0268	-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	-34.060	-0.0199	-2.5 to 2.5	Pass
					3.85	-11.344	-0.0066	-2.5 to 2.5	Pass
					4.43	-29.154	-0.0170	-2.5 to 2.5	Pass
				-30	3.85	-10.629	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-19.312	-0.0113	-2.5 to 2.5	Pass
				-10	3.85	-8.941	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-29.840	-0.0174	-2.5 to 2.5	Pass
				10	3.85	-4.363	-0.0025	-2.5 to 2.5	Pass

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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	-13.790	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-33.216	-0.0194	-2.5 to 2.5	Pass
				50	3.85	-35.720	-0.0209	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	9.384	0.0054	-2.5 to 2.5	Pass
					3.85	10.200	0.0059	-2.5 to 2.5	Pass
					4.43	39.568	0.0228	-2.5 to 2.5	Pass
				-30	3.85	14.992	0.0087	-2.5 to 2.5	Pass
				-20	3.85	34.475	0.0199	-2.5 to 2.5	Pass
				-10	3.85	33.145	0.0191	-2.5 to 2.5	Pass
				0	3.85	28.610	0.0165	-2.5 to 2.5	Pass
				10	3.85	-19.727	-0.0114	-2.5 to 2.5	Pass
				30	3.85	-30.413	-0.0176	-2.5 to 2.5	Pass
				40	3.85	-10.943	-0.0063	-2.5 to 2.5	Pass
				50	3.85	23.761	0.0137	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	5.021	0.0029	-2.5 to 2.5	Pass
					3.85	21.515	0.0123	-2.5 to 2.5	Pass
					4.43	42.243	0.0241	-2.5 to 2.5	Pass
				-30	3.85	9.913	0.0057	-2.5 to 2.5	Pass
				-20	3.85	7.381	0.0042	-2.5 to 2.5	Pass
				-10	3.85	-33.288	-0.0190	-2.5 to 2.5	Pass
				0	3.85	-33.016	-0.0188	-2.5 to 2.5	Pass
				10	3.85	-14.191	-0.0081	-2.5 to 2.5	Pass
				30	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				40	3.85	15.907	0.0091	-2.5 to 2.5	Pass
				50	3.85	29.426	0.0168	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	-41.327	-0.0241	-2.5 to 2.5	Pass
					3.85	-37.680	-0.0220	-2.5 to 2.5	Pass
					4.43	-31.514	-0.0184	-2.5 to 2.5	Pass
				-30	3.85	-26.894	-0.0157	-2.5 to 2.5	Pass
				-20	3.85	-20.571	-0.0120	-2.5 to 2.5	Pass
				-10	3.85	24.204	0.0141	-2.5 to 2.5	Pass
				0	3.85	27.523	0.0161	-2.5 to 2.5	Pass
				10	3.85	18.911	0.0110	-2.5 to 2.5	Pass
				30	3.85	16.837	0.0098	-2.5 to 2.5	Pass
				40	3.85	37.694	0.0220	-2.5 to 2.5	Pass
				50	3.85	22.831	0.0133	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.129	-0.0001	-2.5 to 2.5	Pass
					3.85	22.373	0.0129	-2.5 to 2.5	Pass
					4.43	7.038	0.0041	-2.5 to 2.5	Pass
				-30	3.85	27.065	0.0156	-2.5 to 2.5	Pass
				-20	3.85	16.665	0.0096	-2.5 to 2.5	Pass
				-10	3.85	33.073	0.0191	-2.5 to 2.5	Pass
				0	3.85	20.370	0.0118	-2.5 to 2.5	Pass
				10	3.85	42.772	0.0247	-2.5 to 2.5	Pass
				30	3.85	7.138	0.0041	-2.5 to 2.5	Pass
				40	3.85	32.988	0.0190	-2.5 to 2.5	Pass
				50	3.85	16.036	0.0093	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	6.967	0.0040	-2.5 to 2.5	Pass
					3.85	14.148	0.0081	-2.5 to 2.5	Pass
					4.43	27.895	0.0159	-2.5 to 2.5	Pass
				-30	3.85	13.175	0.0075	-2.5 to 2.5	Pass
				-20	3.85	25.778	0.0147	-2.5 to 2.5	Pass
				-10	3.85	12.803	0.0073	-2.5 to 2.5	Pass
				0	3.85	34.733	0.0198	-2.5 to 2.5	Pass
				10	3.85	11.730	0.0067	-2.5 to 2.5	Pass
				30	3.85	27.680	0.0158	-2.5 to 2.5	Pass
				40	3.85	0.615	0.0004	-2.5 to 2.5	Pass
				50	3.85	13.733	0.0078	-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	-24.290	-0.0142	-2.5 to 2.5	Pass
					3.85	-25.563	-0.0149	-2.5 to 2.5	Pass
					4.43	-23.890	-0.0139	-2.5 to 2.5	Pass
				-30	3.85	-35.820	-0.0209	-2.5 to 2.5	Pass
				-20	3.85	-21.029	-0.0123	-2.5 to 2.5	Pass
				-10	3.85	-30.727	-0.0179	-2.5 to 2.5	Pass
				0	3.85	-23.189	-0.0135	-2.5 to 2.5	Pass
				10	3.85	-30.298	-0.0177	-2.5 to 2.5	Pass
				30	3.85	-23.732	-0.0138	-2.5 to 2.5	Pass
				40	3.85	-15.149	-0.0088	-2.5 to 2.5	Pass
				50	3.85	-21.558	-0.0126	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	21.014	0.0121	-2.5 to 2.5	Pass
					3.85	23.732	0.0137	-2.5 to 2.5	Pass
					4.43	16.565	0.0096	-2.5 to 2.5	Pass
				-30	3.85	5.107	0.0029	-2.5 to 2.5	Pass
				-20	3.85	18.682	0.0108	-2.5 to 2.5	Pass
				-10	3.85	37.022	0.0214	-2.5 to 2.5	Pass
				0	3.85	-2.947	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-8.512	-0.0049	-2.5 to 2.5	Pass
				30	3.85	9.112	0.0053	-2.5 to 2.5	Pass
				40	3.85	32.086	0.0185	-2.5 to 2.5	Pass
				50	3.85	19.770	0.0114	-2.5 to 2.5	Pass
	1750	50	0	20	3.27	-14.305	-0.0082	-2.5 to 2.5	Pass
					3.85	-20.585	-0.0118	-2.5 to 2.5	Pass
					4.43	-21.615	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-18.454	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-18.196	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-26.693	-0.0153	-2.5 to 2.5	Pass
				0	3.85	-23.646	-0.0135	-2.5 to 2.5	Pass
				10	3.85	-15.535	-0.0089	-2.5 to 2.5	Pass
				30	3.85	2.532	0.0014	-2.5 to 2.5	Pass
				40	3.85	-38.166	-0.0218	-2.5 to 2.5	Pass
				50	3.85	-42.200	-0.0241	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.27	-4.678	-0.0027	-2.5 to 2.5	Pass
					3.85	21.186	0.0124	-2.5 to 2.5	Pass
					4.43	22.159	0.0129	-2.5 to 2.5	Pass
				-30	3.85	26.865	0.0157	-2.5 to 2.5	Pass
				-20	3.85	17.710	0.0103	-2.5 to 2.5	Pass
				-10	3.85	26.150	0.0152	-2.5 to 2.5	Pass
				0	3.85	27.022	0.0158	-2.5 to 2.5	Pass
				10	3.85	23.103	0.0135	-2.5 to 2.5	Pass
				30	3.85	13.390	0.0078	-2.5 to 2.5	Pass
				40	3.85	29.855	0.0174	-2.5 to 2.5	Pass
				50	3.85	15.078	0.0088	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.27	41.442	0.0239	-2.5 to 2.5	Pass
					3.85	2.103	0.0012	-2.5 to 2.5	Pass
					4.43	24.834	0.0143	-2.5 to 2.5	Pass
				-30	3.85	21.901	0.0126	-2.5 to 2.5	Pass
				-20	3.85	26.565	0.0153	-2.5 to 2.5	Pass
				-10	3.85	19.941	0.0115	-2.5 to 2.5	Pass
				0	3.85	39.368	0.0227	-2.5 to 2.5	Pass
				10	3.85	28.009	0.0162	-2.5 to 2.5	Pass
				30	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass
				40	3.85	16.809	0.0097	-2.5 to 2.5	Pass

	1750	50	0	50	3.85	32.558	0.0188	-2.5 to 2.5	Pass
				20	3.27	16.308	0.0093	-2.5 to 2.5	Pass
					3.85	22.316	0.0128	-2.5 to 2.5	Pass
					4.43	20.471	0.0117	-2.5 to 2.5	Pass
				-30	3.85	37.708	0.0215	-2.5 to 2.5	Pass
				-20	3.85	13.618	0.0078	-2.5 to 2.5	Pass
				-10	3.85	21.143	0.0121	-2.5 to 2.5	Pass
				0	3.85	22.087	0.0126	-2.5 to 2.5	Pass
				10	3.85	30.899	0.0177	-2.5 to 2.5	Pass
				30	3.85	21.415	0.0122	-2.5 to 2.5	Pass
				40	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				50	3.85	25.320	0.0145	-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	-21.186	-0.0123	-2.5 to 2.5	Pass
					3.85	-23.417	-0.0136	-2.5 to 2.5	Pass
					4.43	-27.924	-0.0163	-2.5 to 2.5	Pass
				-30	3.85	-28.582	-0.0166	-2.5 to 2.5	Pass
				-20	3.85	-12.031	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	25.177	0.0147	-2.5 to 2.5	Pass
				0	3.85	23.503	0.0137	-2.5 to 2.5	Pass
				10	3.85	23.174	0.0135	-2.5 to 2.5	Pass
				30	3.85	27.208	0.0158	-2.5 to 2.5	Pass
				40	3.85	26.364	0.0154	-2.5 to 2.5	Pass
				50	3.85	4.363	0.0025	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	24.090	0.0139	-2.5 to 2.5	Pass
					3.85	14.777	0.0085	-2.5 to 2.5	Pass
					4.43	28.811	0.0166	-2.5 to 2.5	Pass
				-30	3.85	5.193	0.0030	-2.5 to 2.5	Pass
				-20	3.85	8.025	0.0046	-2.5 to 2.5	Pass
				-10	3.85	16.708	0.0096	-2.5 to 2.5	Pass
				0	3.85	21.443	0.0124	-2.5 to 2.5	Pass
				10	3.85	26.450	0.0153	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				50	3.85	4.721	0.0027	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	17.281	0.0099	-2.5 to 2.5	Pass
					3.85	-1.373	-0.0008	-2.5 to 2.5	Pass
					4.43	5.651	0.0032	-2.5 to 2.5	Pass
				-30	3.85	23.732	0.0136	-2.5 to 2.5	Pass
				-20	3.85	-30.069	-0.0172	-2.5 to 2.5	Pass
				-10	3.85	-26.565	-0.0152	-2.5 to 2.5	Pass
				0	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				10	3.85	17.638	0.0101	-2.5 to 2.5	Pass
				30	3.85	35.563	0.0204	-2.5 to 2.5	Pass
				40	3.85	3.605	0.0021	-2.5 to 2.5	Pass
				50	3.85	15.106	0.0086	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	10.443	0.0061	-2.5 to 2.5	Pass
					3.85	21.529	0.0125	-2.5 to 2.5	Pass
					4.43	32.058	0.0187	-2.5 to 2.5	Pass
				-30	3.85	4.492	0.0026	-2.5 to 2.5	Pass
				-20	3.85	1.974	0.0011	-2.5 to 2.5	Pass
				-10	3.85	7.467	0.0043	-2.5 to 2.5	Pass
				0	3.85	9.398	0.0055	-2.5 to 2.5	Pass

				10	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-38.295	-0.0223	-2.5 to 2.5	Pass
				40	3.85	-20.170	-0.0117	-2.5 to 2.5	Pass
				50	3.85	24.161	0.0141	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	-16.751	-0.0097	-2.5 to 2.5	Pass
					3.85	-21.243	-0.0123	-2.5 to 2.5	Pass
					4.43	6.022	0.0035	-2.5 to 2.5	Pass
				-30	3.85	2.375	0.0014	-2.5 to 2.5	Pass
				-20	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				-10	3.85	15.850	0.0091	-2.5 to 2.5	Pass
				0	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
				10	3.85	23.060	0.0133	-2.5 to 2.5	Pass
				30	3.85	15.807	0.0091	-2.5 to 2.5	Pass
				40	3.85	37.293	0.0215	-2.5 to 2.5	Pass
				50	3.85	16.580	0.0096	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	25.592	0.0146	-2.5 to 2.5	Pass
					3.85	35.834	0.0205	-2.5 to 2.5	Pass
					4.43	17.195	0.0098	-2.5 to 2.5	Pass
				-30	3.85	35.791	0.0205	-2.5 to 2.5	Pass
				-20	3.85	11.973	0.0069	-2.5 to 2.5	Pass
				-10	3.85	27.637	0.0158	-2.5 to 2.5	Pass
				0	3.85	11.859	0.0068	-2.5 to 2.5	Pass
				10	3.85	36.578	0.0209	-2.5 to 2.5	Pass
				30	3.85	-11.759	-0.0067	-2.5 to 2.5	Pass
				40	3.85	3.333	0.0019	-2.5 to 2.5	Pass
				50	3.85	40.755	0.0233	-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	-16.623	-0.0097	-2.5 to 2.5	Pass
					3.85	-8.211	-0.0048	-2.5 to 2.5	Pass
					4.43	-25.549	-0.0149	-2.5 to 2.5	Pass
				-30	3.85	-15.864	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-22.702	-0.0132	-2.5 to 2.5	Pass
				-10	3.85	-17.009	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-2.003	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-15.936	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-19.941	-0.0116	-2.5 to 2.5	Pass
				40	3.85	6.008	0.0035	-2.5 to 2.5	Pass
				50	3.85	-8.111	-0.0047	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	27.194	0.0157	-2.5 to 2.5	Pass
					3.85	25.492	0.0147	-2.5 to 2.5	Pass
					4.43	14.906	0.0086	-2.5 to 2.5	Pass
				-30	3.85	29.426	0.0170	-2.5 to 2.5	Pass
				-20	3.85	4.792	0.0028	-2.5 to 2.5	Pass
				-10	3.85	18.353	0.0106	-2.5 to 2.5	Pass
				0	3.85	29.740	0.0172	-2.5 to 2.5	Pass
				10	3.85	36.535	0.0211	-2.5 to 2.5	Pass
				30	3.85	-19.755	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-11.115	-0.0064	-2.5 to 2.5	Pass
				50	3.85	16.336	0.0094	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	14.391	0.0082	-2.5 to 2.5	Pass
					3.85	7.539	0.0043	-2.5 to 2.5	Pass
					4.43	22.802	0.0131	-2.5 to 2.5	Pass
				-30	3.85	32.444	0.0186	-2.5 to 2.5	Pass

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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

				-20	3.85	1.273	0.0007	-2.5 to 2.5	Pass	
				-10	3.85	10.185	0.0058	-2.5 to 2.5	Pass	
				0	3.85	13.919	0.0080	-2.5 to 2.5	Pass	
				10	3.85	23.561	0.0135	-2.5 to 2.5	Pass	
				30	3.85	24.705	0.0142	-2.5 to 2.5	Pass	
				40	3.85	34.246	0.0196	-2.5 to 2.5	Pass	
				50	3.85	-22.545	-0.0129	-2.5 to 2.5	Pass	
16QAM	1720	100	0	20	3.27	26.207	0.0152	-2.5 to 2.5	Pass	
					3.85	25.978	0.0151	-2.5 to 2.5	Pass	
					4.43	34.575	0.0201	-2.5 to 2.5	Pass	
				-30	3.85	13.747	0.0080	-2.5 to 2.5	Pass	
				-20	3.85	18.597	0.0108	-2.5 to 2.5	Pass	
				-10	3.85	23.060	0.0134	-2.5 to 2.5	Pass	
				0	3.85	27.137	0.0158	-2.5 to 2.5	Pass	
				10	3.85	23.088	0.0134	-2.5 to 2.5	Pass	
				30	3.85	25.291	0.0147	-2.5 to 2.5	Pass	
				40	3.85	3.219	0.0019	-2.5 to 2.5	Pass	
	50	3.85	18.067	0.0105	-2.5 to 2.5	Pass				
				0	20	3.27	37.823	0.0218	-2.5 to 2.5	Pass
						3.85	13.475	0.0078	-2.5 to 2.5	Pass
						4.43	38.538	0.0222	-2.5 to 2.5	Pass
					-30	3.85	-1.087	-0.0006	-2.5 to 2.5	Pass
					-20	3.85	28.682	0.0166	-2.5 to 2.5	Pass
					-10	3.85	16.594	0.0096	-2.5 to 2.5	Pass
					0	3.85	11.415	0.0066	-2.5 to 2.5	Pass
					10	3.85	29.411	0.0170	-2.5 to 2.5	Pass
					30	3.85	23.546	0.0136	-2.5 to 2.5	Pass
					40	3.85	-13.661	-0.0079	-2.5 to 2.5	Pass
	50	3.85	-3.905	-0.0023	-2.5 to 2.5	Pass				
	1745	100	0	20	3.27	-18.883	-0.0108	-2.5 to 2.5	Pass	
					3.85	5.951	0.0034	-2.5 to 2.5	Pass	
					4.43	15.464	0.0089	-2.5 to 2.5	Pass	
				-30	3.85	20.385	0.0117	-2.5 to 2.5	Pass	
				-20	3.85	15.836	0.0091	-2.5 to 2.5	Pass	
				-10	3.85	37.150	0.0213	-2.5 to 2.5	Pass	
				0	3.85	33.345	0.0191	-2.5 to 2.5	Pass	
				10	3.85	18.425	0.0106	-2.5 to 2.5	Pass	
30				3.85	24.934	0.0143	-2.5 to 2.5	Pass		
40				3.85	36.521	0.0209	-2.5 to 2.5	Pass		
50	3.85	-24.476	-0.0140	-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 / NTN/V						
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

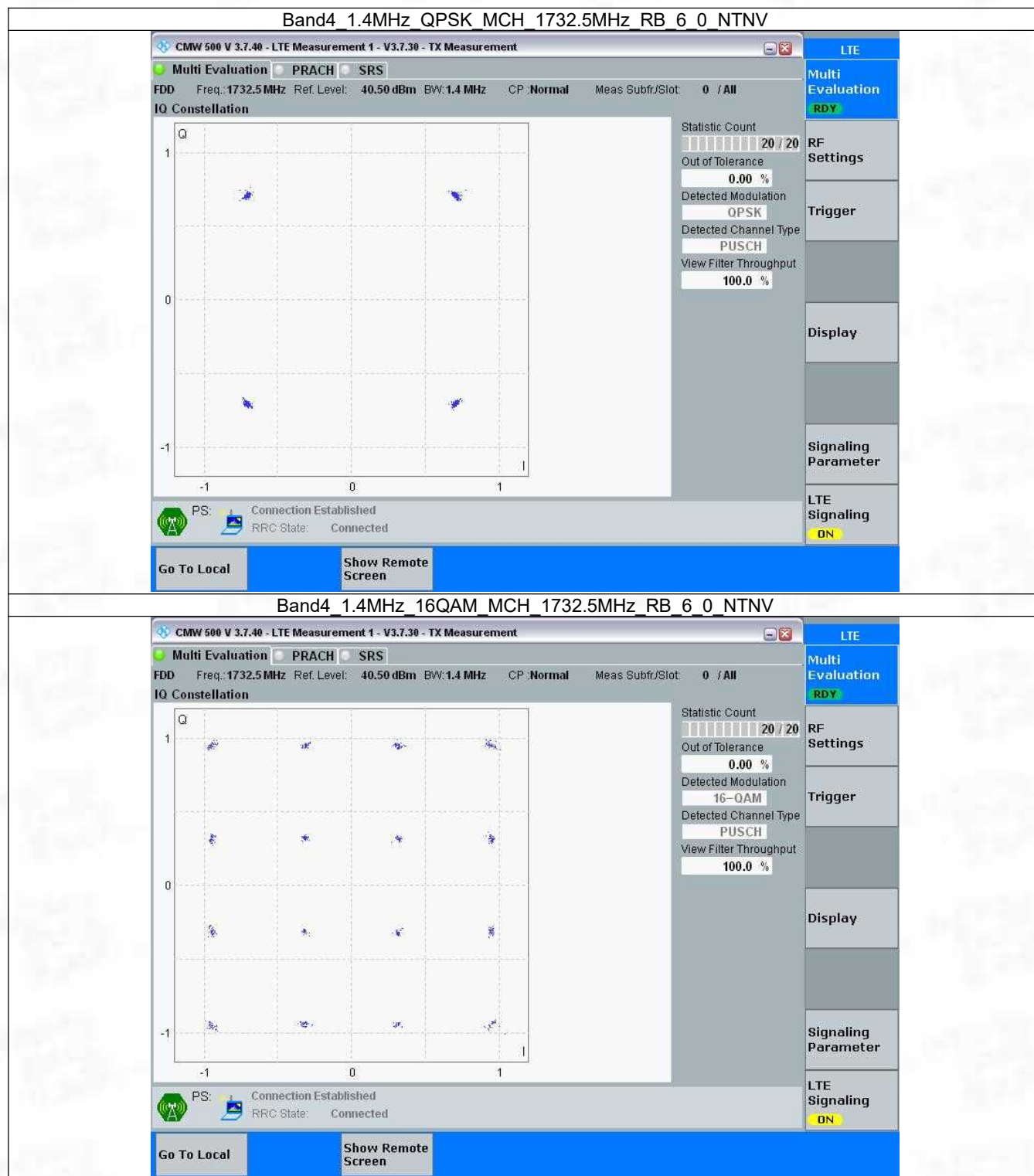
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

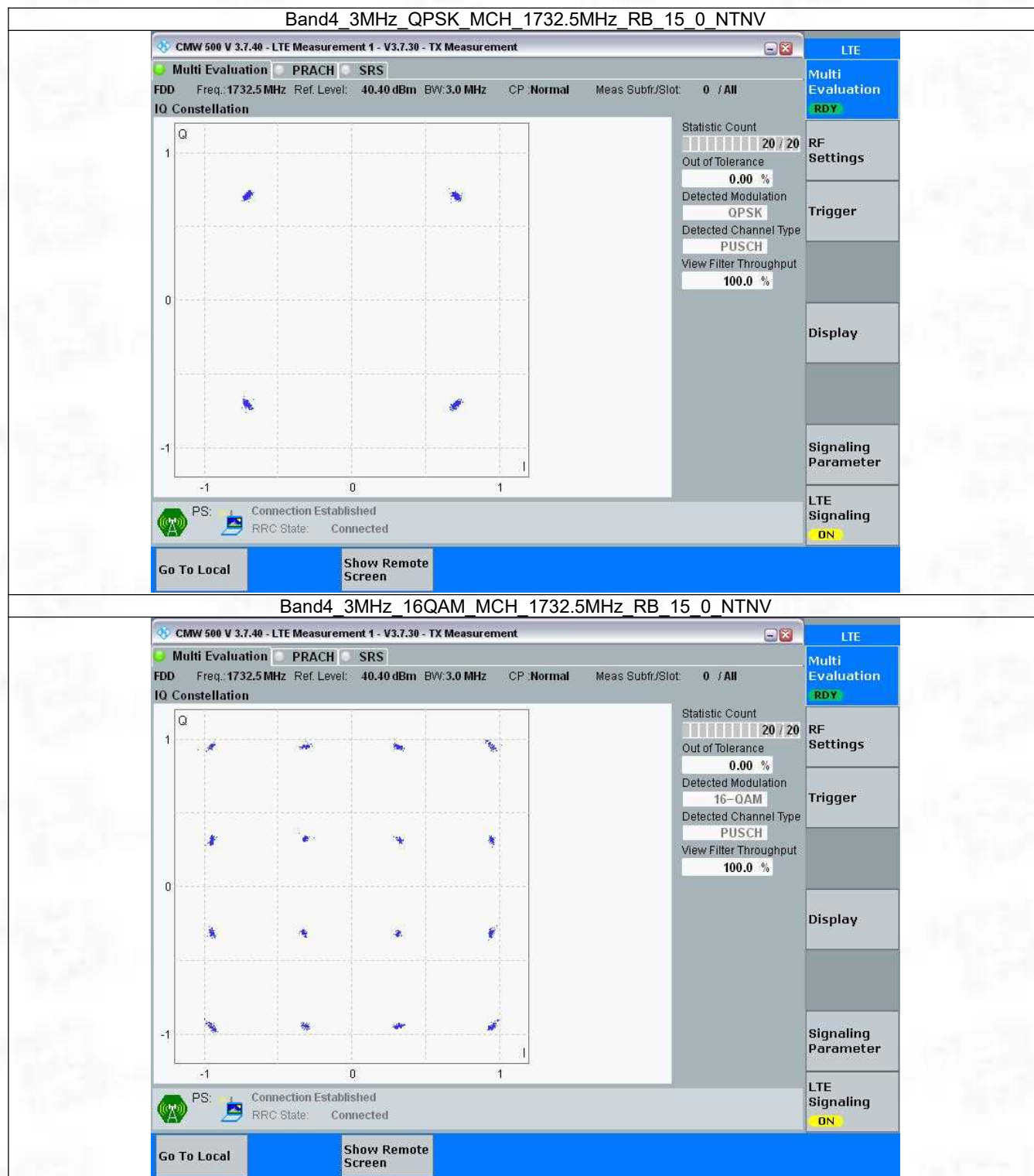
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

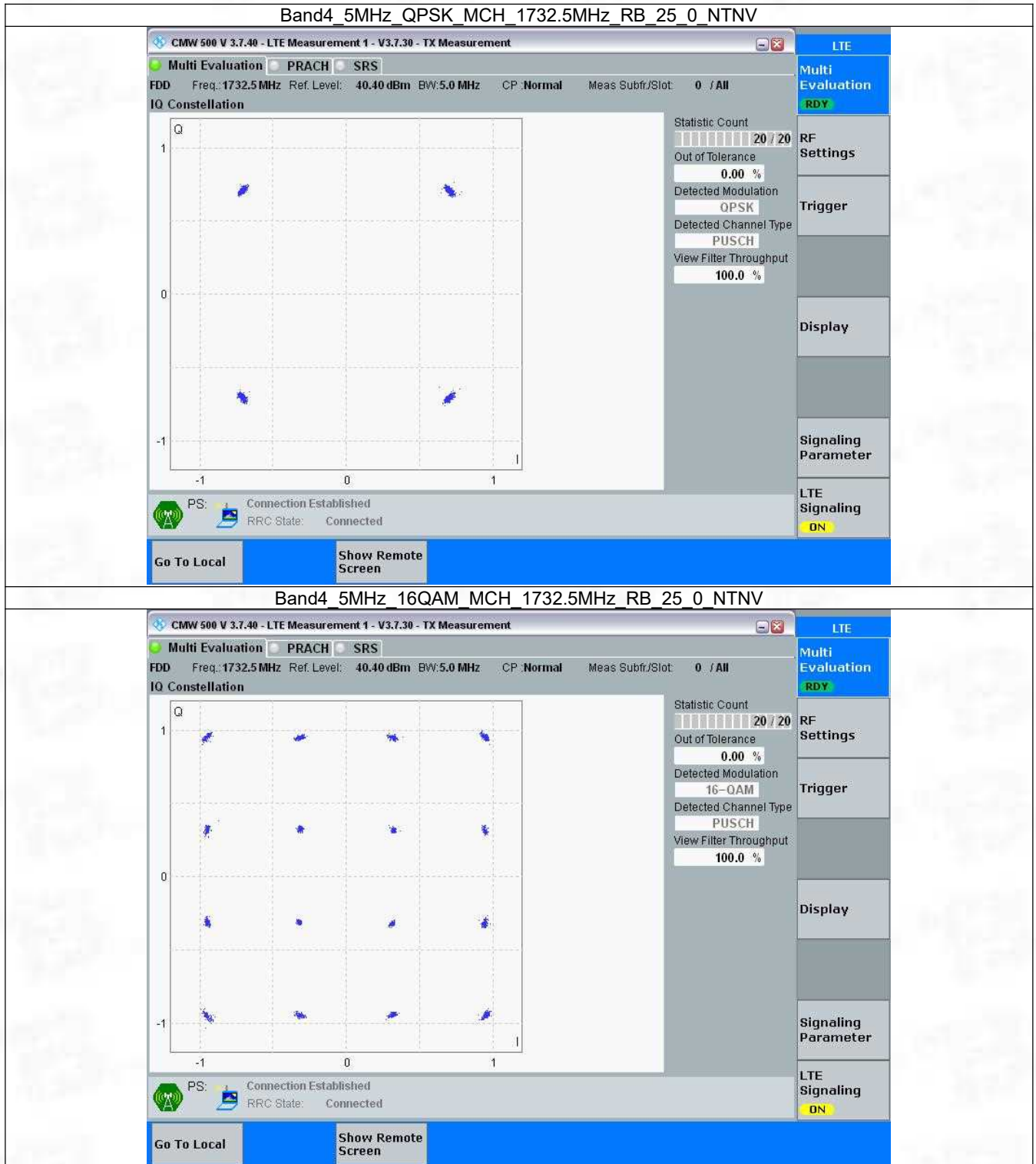
3.2.1 B4_1.4MHz



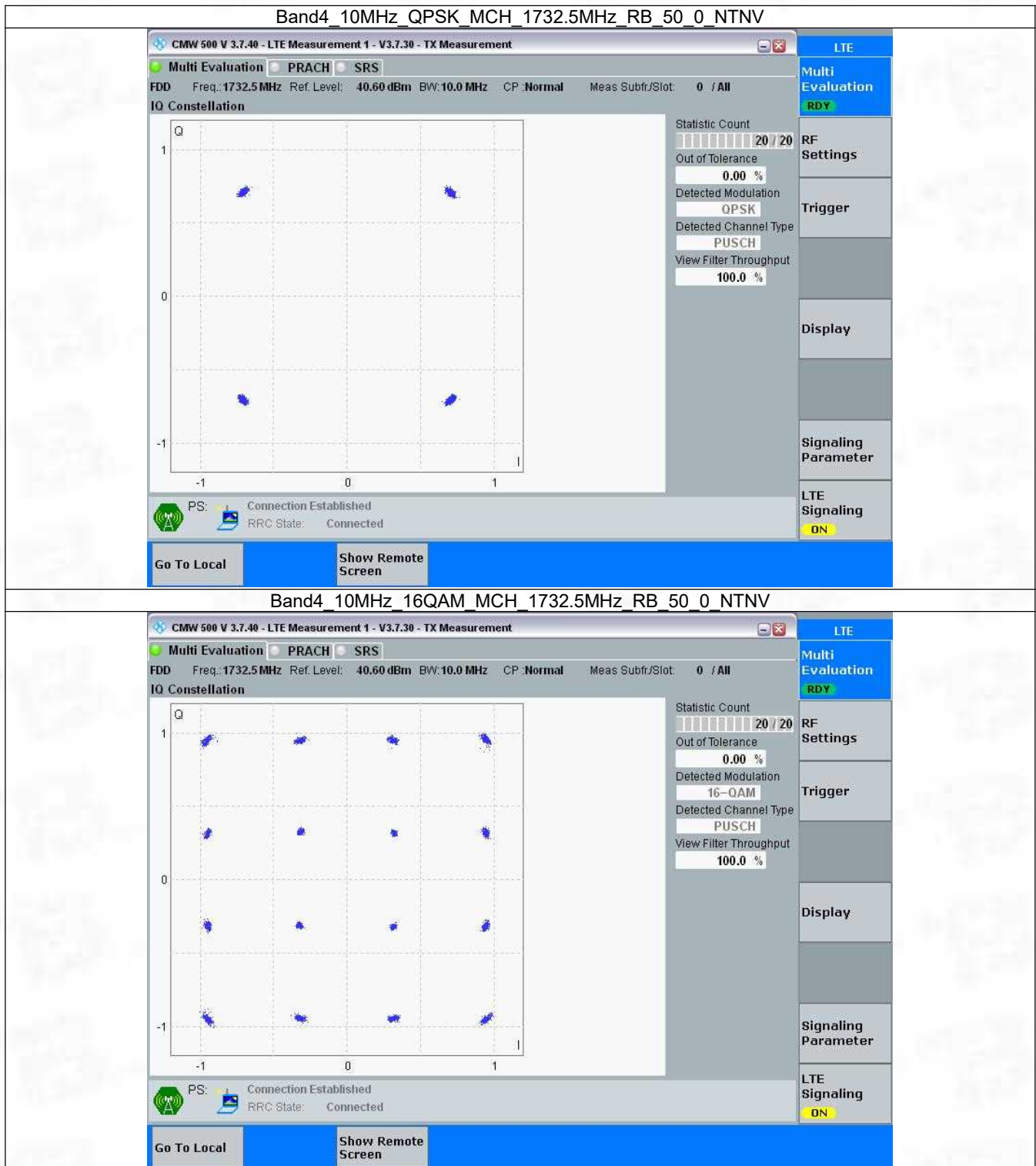
3.2.2 B4_3MHz



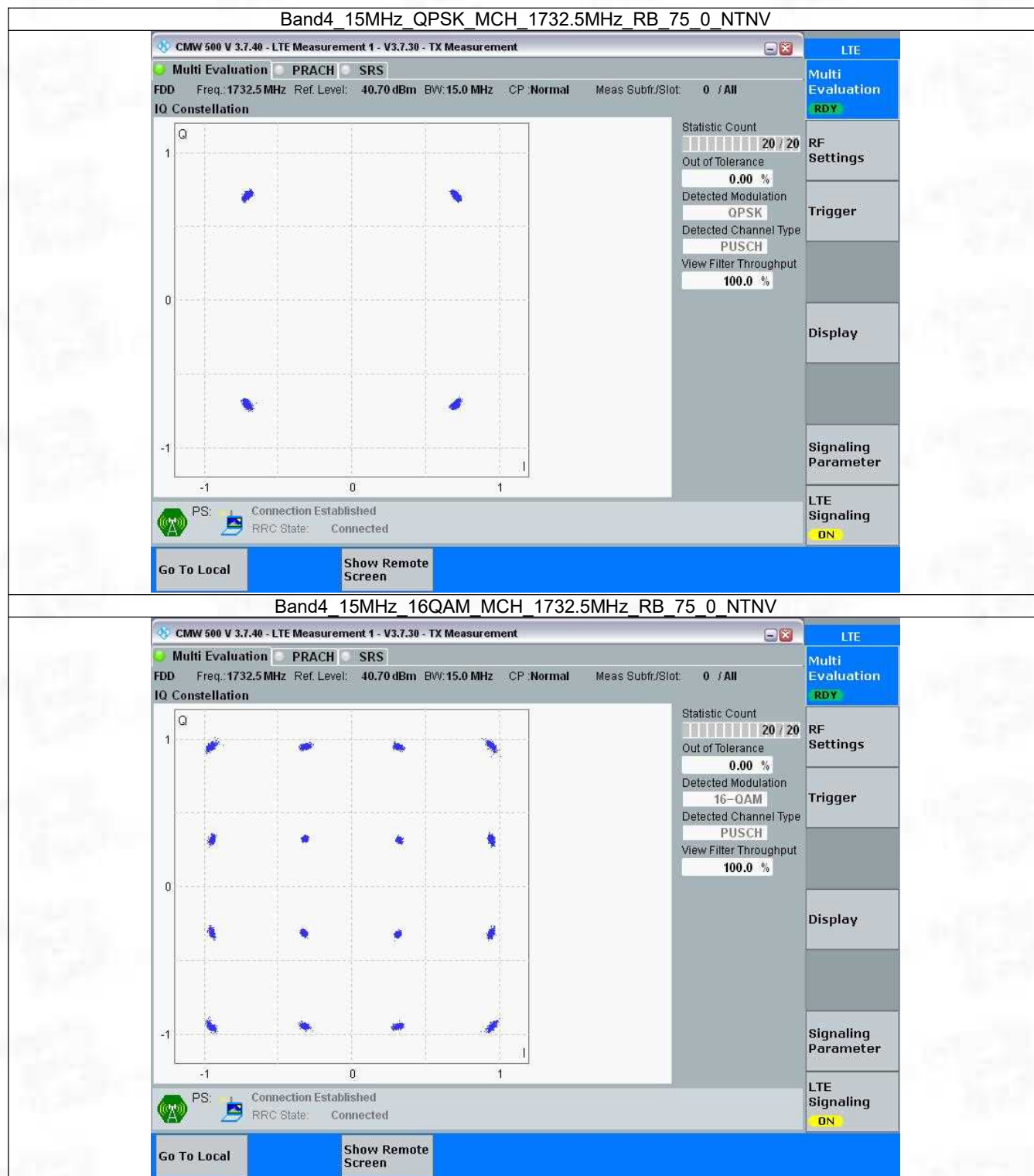
3.2.3 B4_5MHz



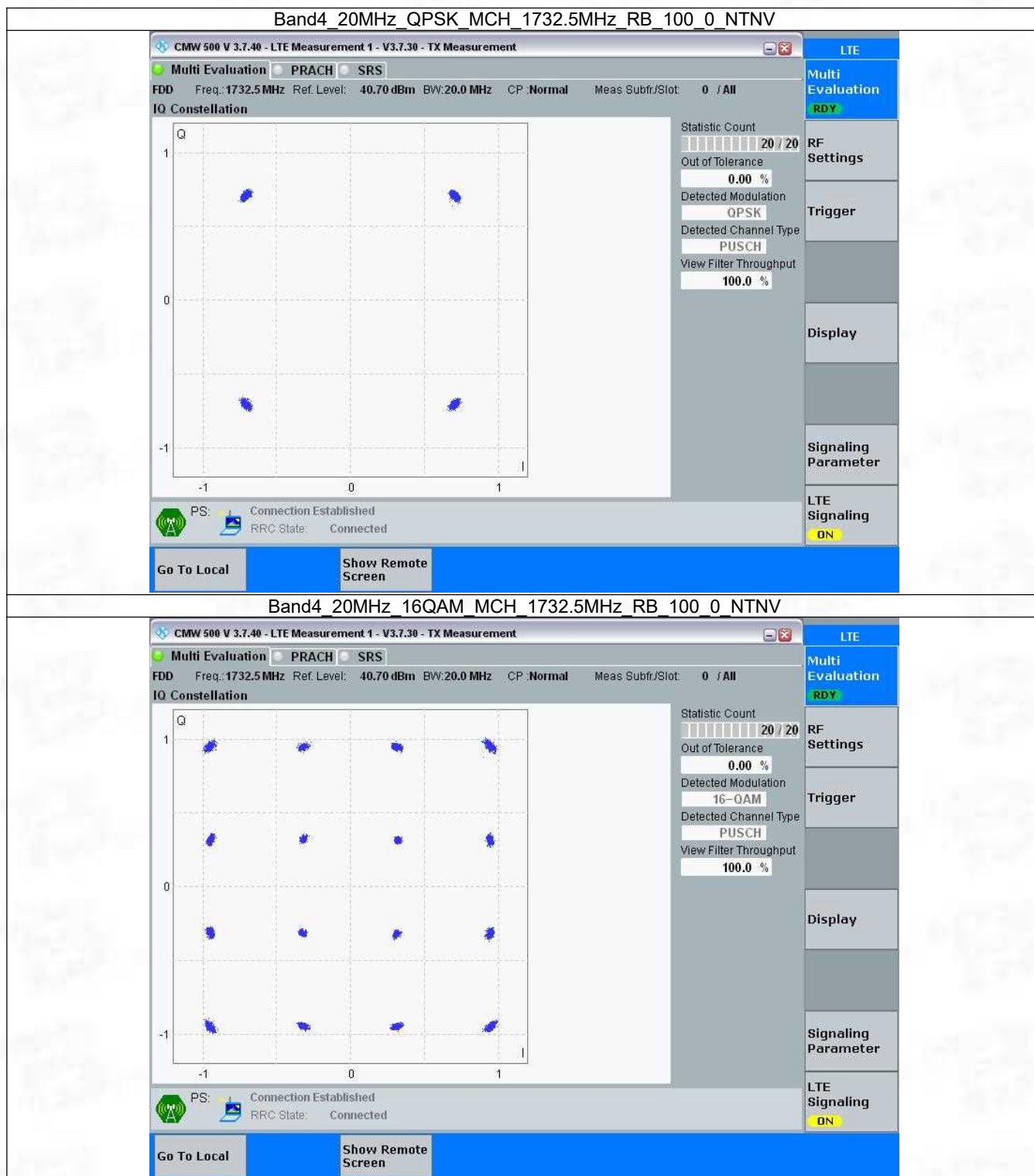
3.2.4 B4_10MHz



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	1.112	/	Pass
		1732.5	6	0	1.113	/	Pass
		1754.3	6	0	1.120	/	Pass
	16QAM	1710.7	6	0	1.110	/	Pass
		1732.5	6	0	1.110	/	Pass
		1754.3	6	0	1.115	/	Pass
3	QPSK	1711.5	15	0	2.761	/	Pass
		1732.5	15	0	2.755	/	Pass
		1753.5	15	0	2.754	/	Pass
	16QAM	1711.5	15	0	2.759	/	Pass
		1732.5	15	0	2.763	/	Pass
		1753.5	15	0	2.758	/	Pass
5	QPSK	1712.5	25	0	4.548	/	Pass
		1732.5	25	0	4.553	/	Pass
		1752.5	25	0	4.583	/	Pass
	16QAM	1712.5	25	0	4.538	/	Pass
		1732.5	25	0	4.554	/	Pass
		1752.5	25	0	4.565	/	Pass
10	QPSK	1715	50	0	9.058	/	Pass
		1732.5	50	0	9.077	/	Pass
		1750	50	0	9.037	/	Pass
	16QAM	1715	50	0	9.051	/	Pass
		1732.5	50	0	9.075	/	Pass
		1750	50	0	9.064	/	Pass
15	QPSK	1717.5	75	0	13.603	/	Pass
		1732.5	75	0	13.609	/	Pass
		1747.5	75	0	13.597	/	Pass
	16QAM	1717.5	75	0	13.584	/	Pass
		1732.5	75	0	13.601	/	Pass
		1747.5	75	0	13.589	/	Pass
20	QPSK	1720	100	0	18.139	/	Pass
		1732.5	100	0	18.184	/	Pass
		1745	100	0	18.141	/	Pass
	16QAM	1720	100	0	18.190	/	Pass
		1732.5	100	0	18.176	/	Pass
		1745	100	0	18.157	/	Pass

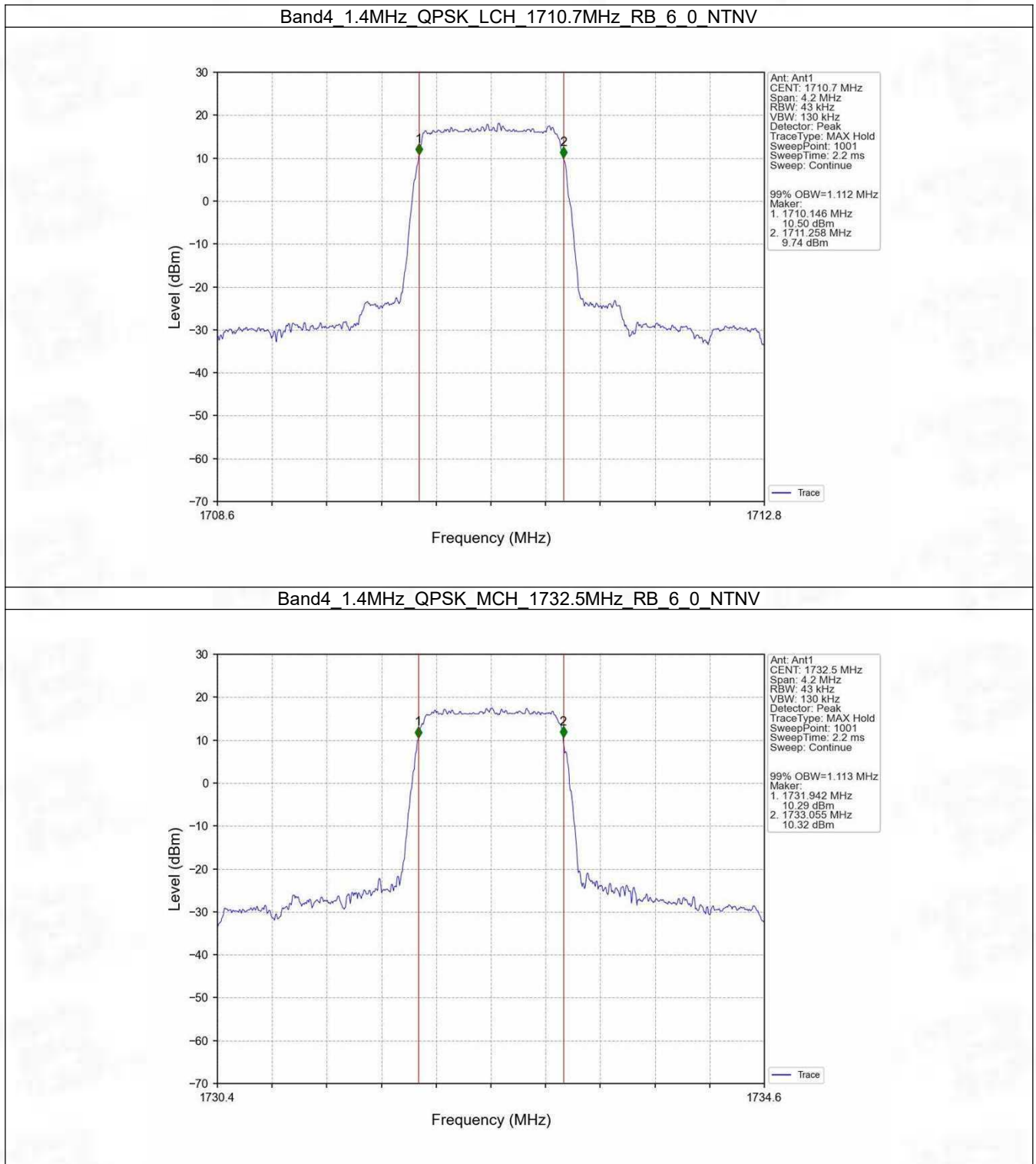
4.1.2 Band4_XDB

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	1.268	/	Pass
		1732.5	6	0	1.275	/	Pass
		1754.3	6	0	1.272	/	Pass

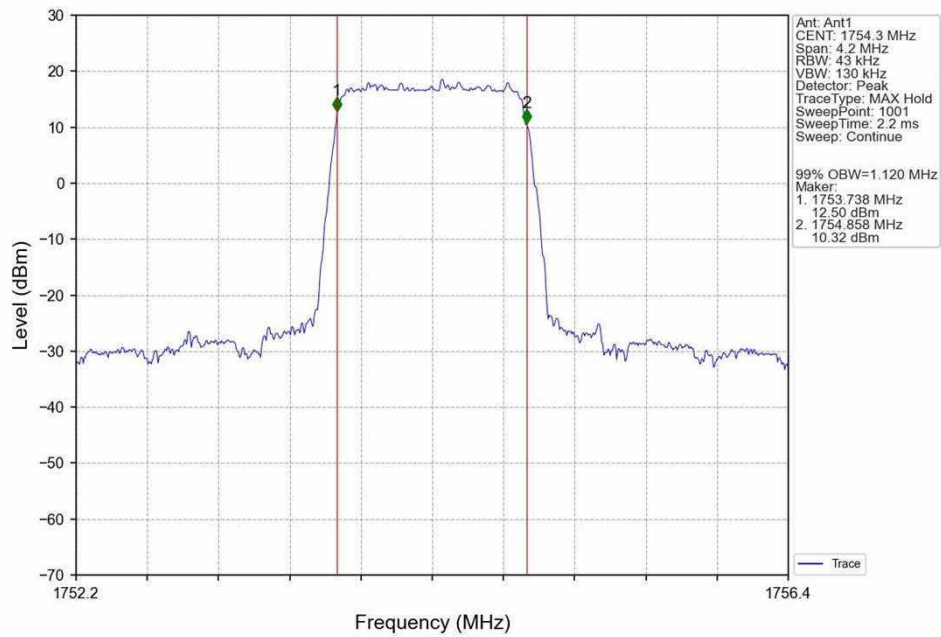
	16QAM	1710.7	6	0	1.274	/	Pass
		1732.5	6	0	1.268	/	Pass
		1754.3	6	0	1.270	/	Pass
3	QPSK	1711.5	15	0	3.087	/	Pass
		1732.5	15	0	3.106	/	Pass
		1753.5	15	0	3.068	/	Pass
	16QAM	1711.5	15	0	3.104	/	Pass
		1732.5	15	0	3.116	/	Pass
		1753.5	15	0	3.102	/	Pass
5	QPSK	1712.5	25	0	5.051	/	Pass
		1732.5	25	0	5.068	/	Pass
		1752.5	25	0	5.039	/	Pass
	16QAM	1712.5	25	0	5.047	/	Pass
		1732.5	25	0	5.065	/	Pass
		1752.5	25	0	5.054	/	Pass
10	QPSK	1715	50	0	10.097	/	Pass
		1732.5	50	0	9.994	/	Pass
		1750	50	0	10.040	/	Pass
	16QAM	1715	50	0	10.006	/	Pass
		1732.5	50	0	10.051	/	Pass
		1750	50	0	10.068	/	Pass
15	QPSK	1717.5	75	0	15.148	/	Pass
		1732.5	75	0	15.192	/	Pass
		1747.5	75	0	15.061	/	Pass
	16QAM	1717.5	75	0	15.097	/	Pass
		1732.5	75	0	15.126	/	Pass
		1747.5	75	0	15.106	/	Pass
20	QPSK	1720	100	0	20.029	/	Pass
		1732.5	100	0	20.126	/	Pass
		1745	100	0	19.985	/	Pass
	16QAM	1720	100	0	20.038	/	Pass
		1732.5	100	0	19.974	/	Pass
		1745	100	0	19.968	/	Pass

4.2 Test Graph

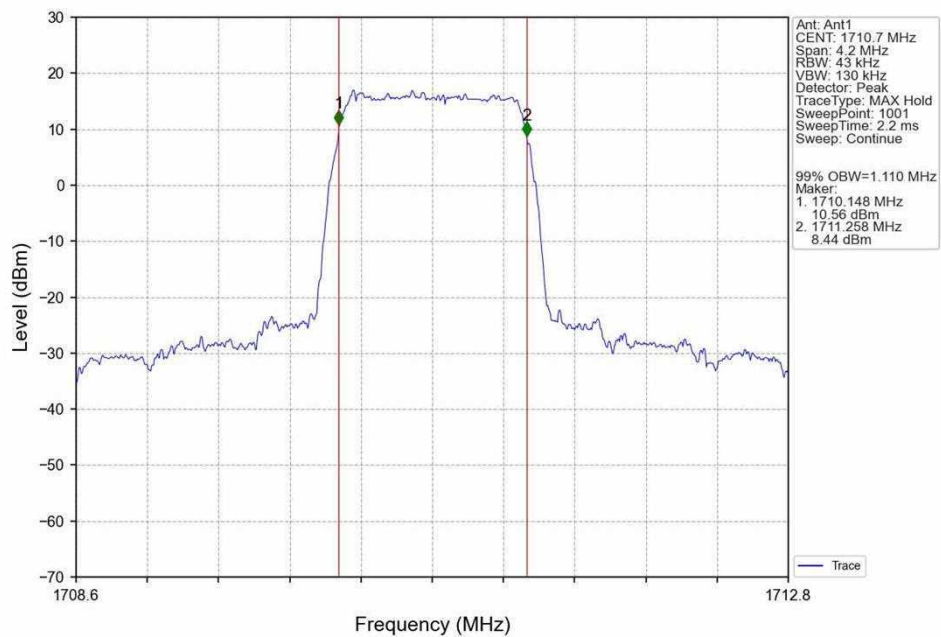
4.2.1 Band4_OBW



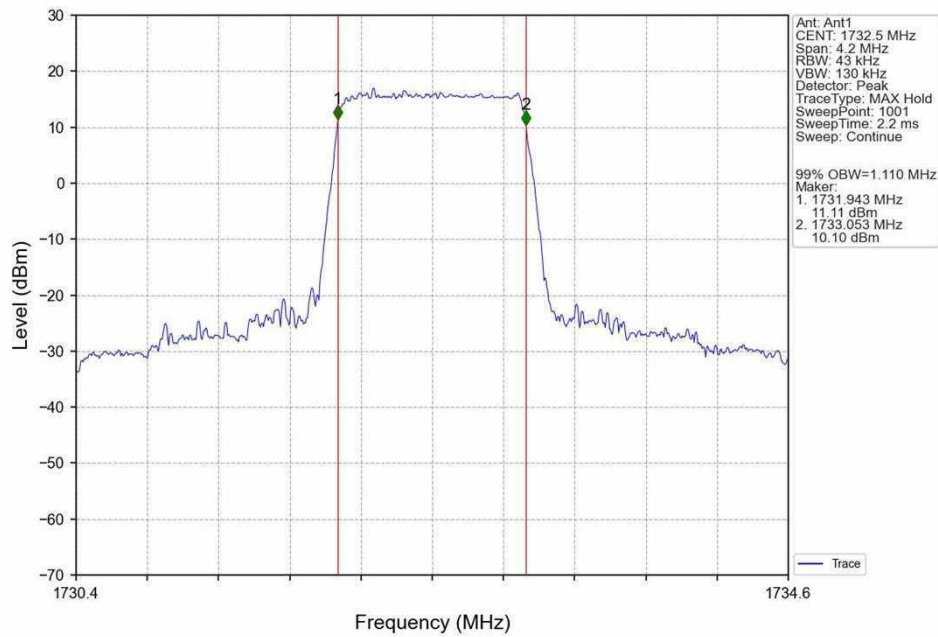
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



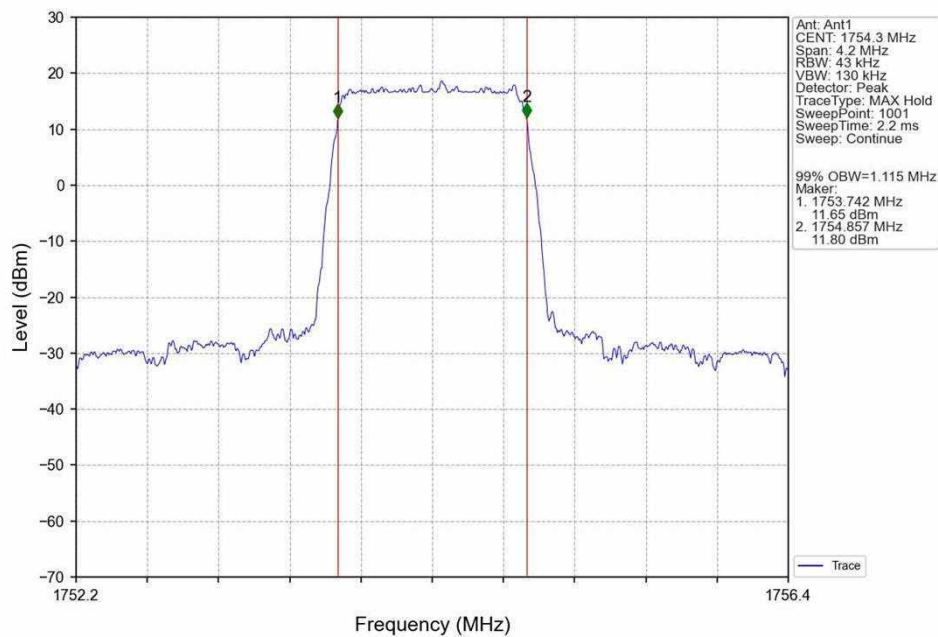
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



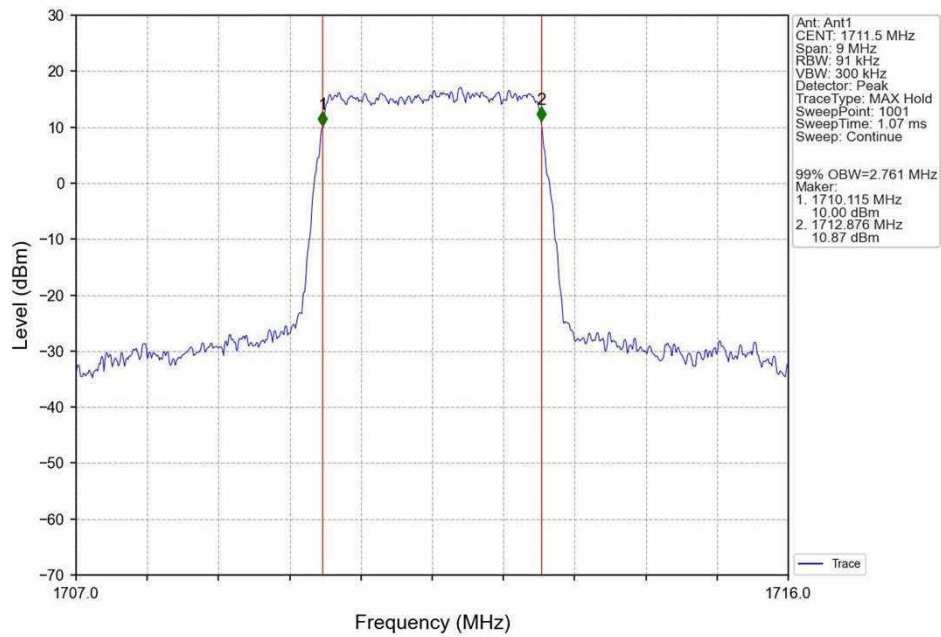
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



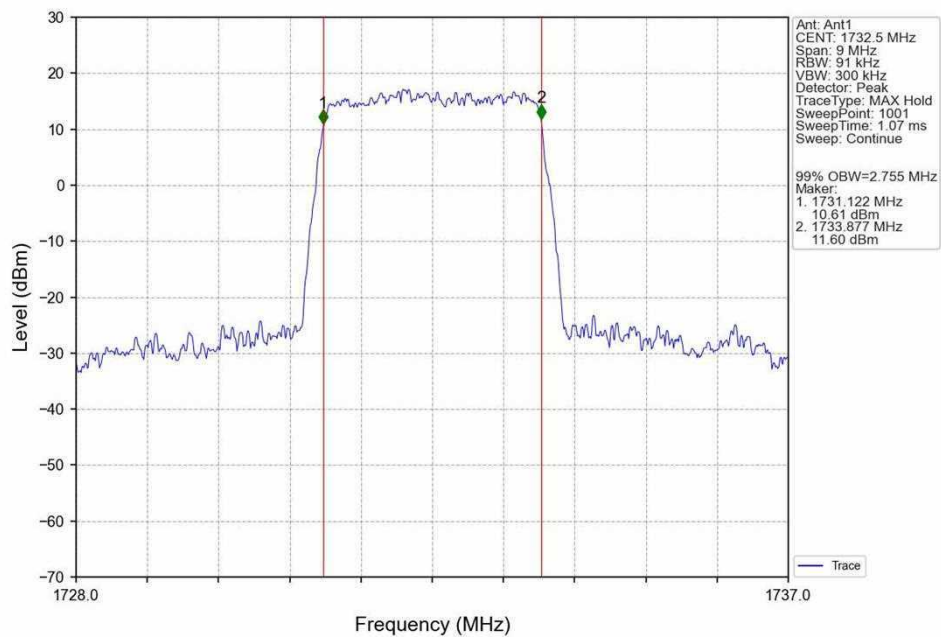
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



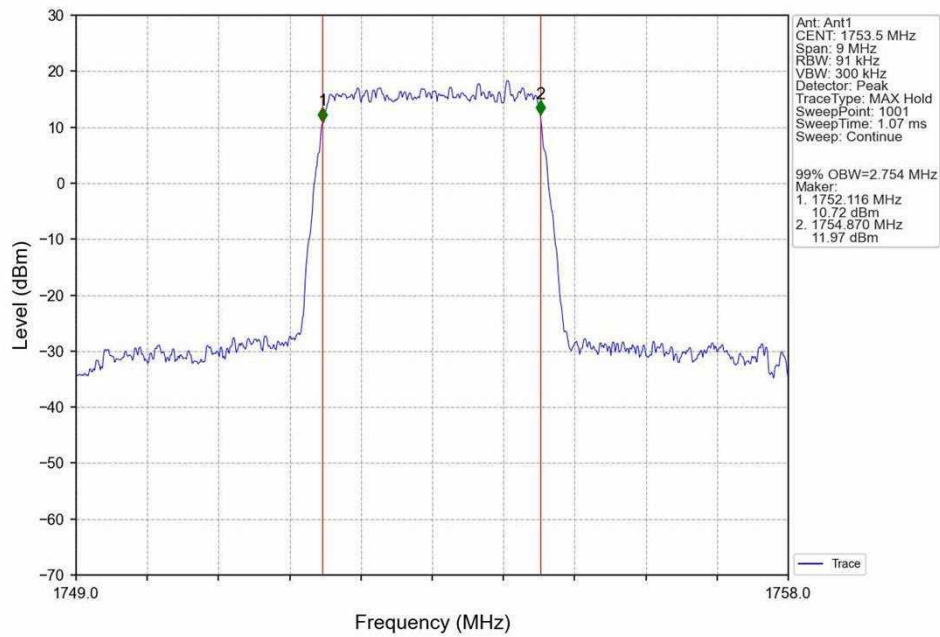
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



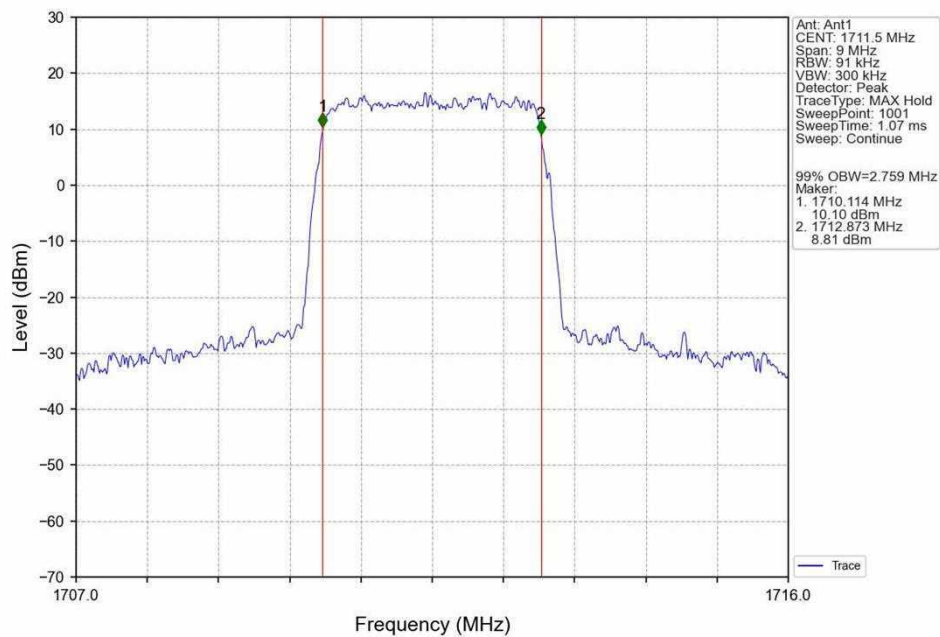
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



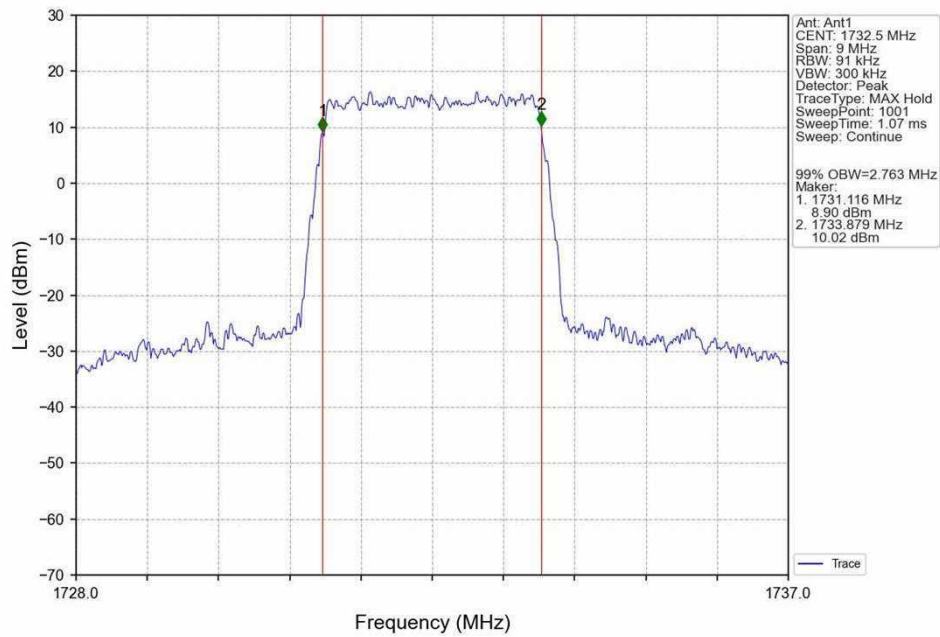
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



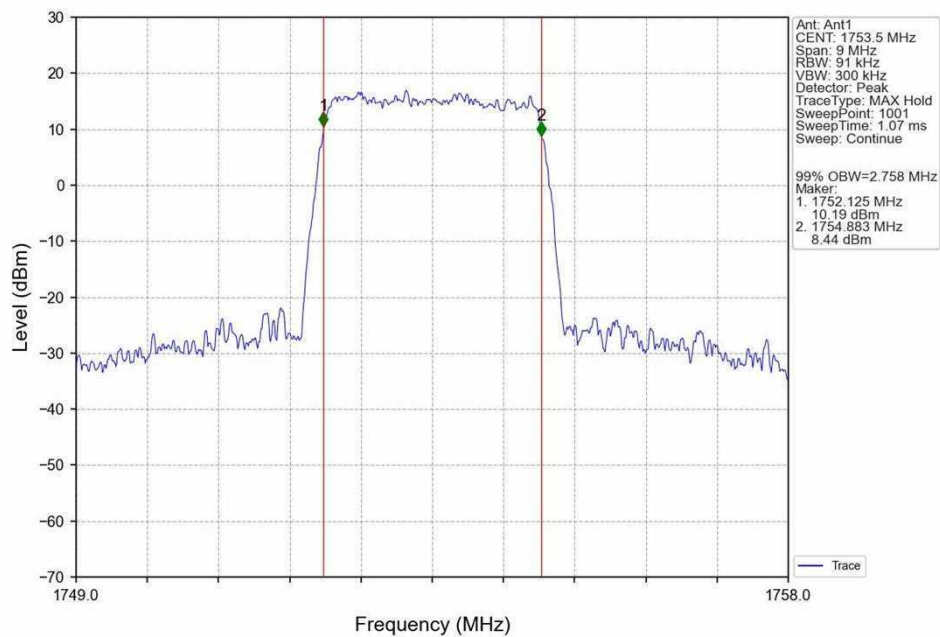
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



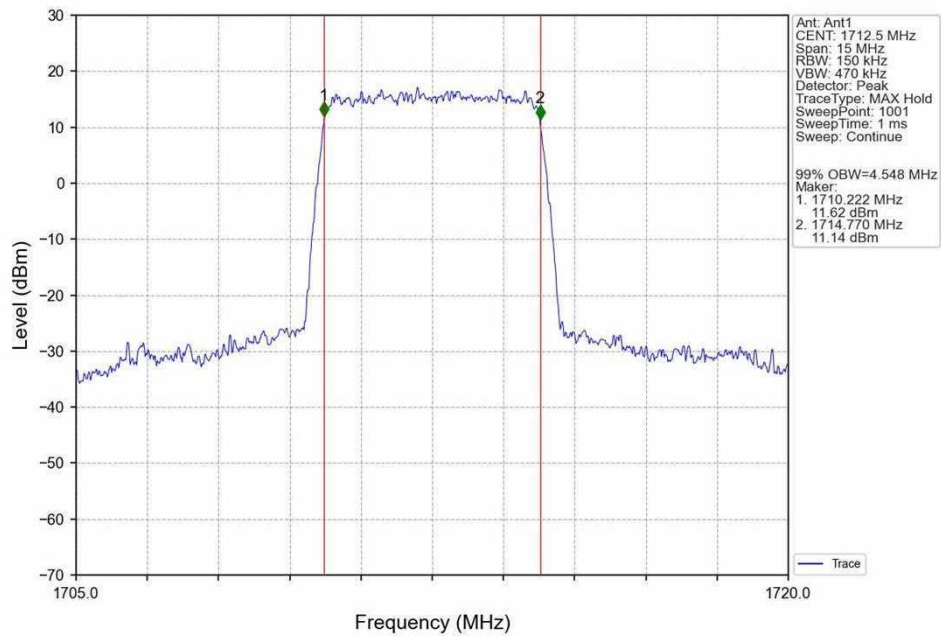
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



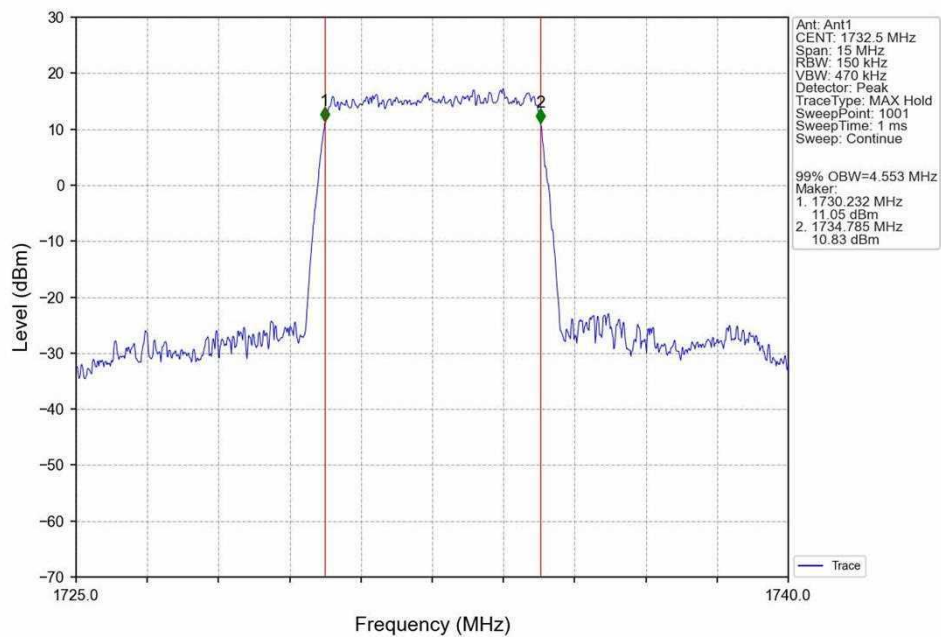
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



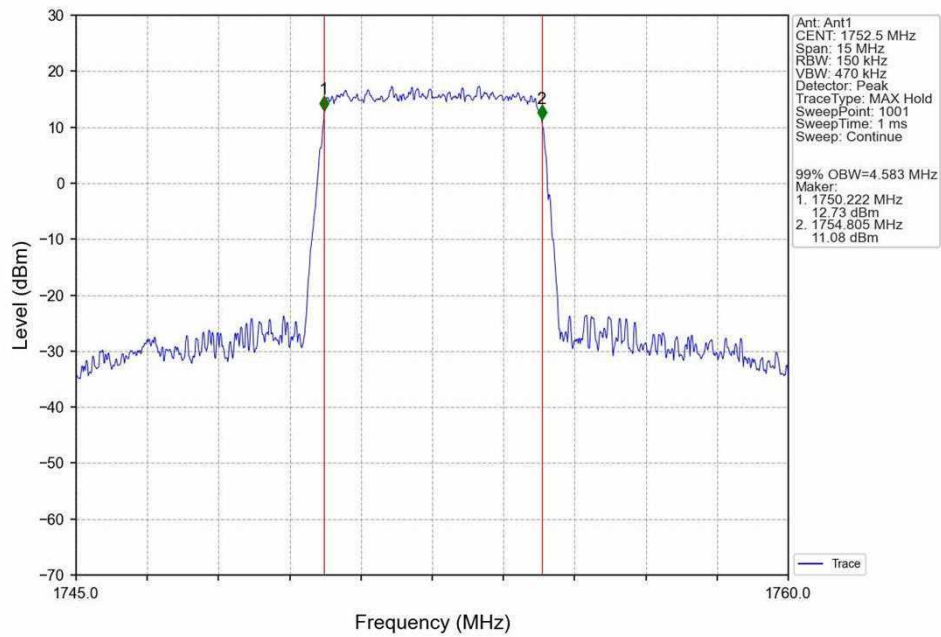
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



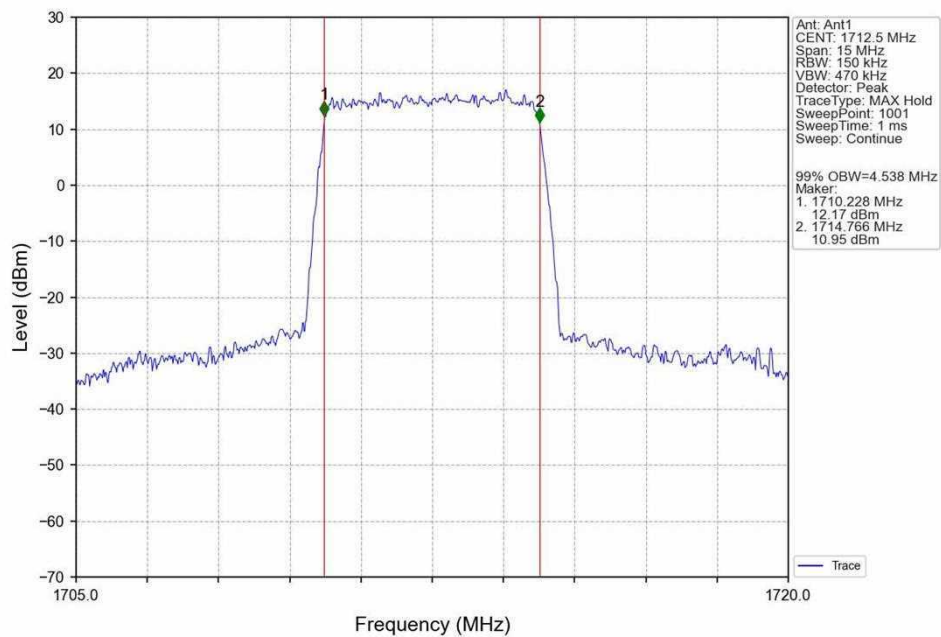
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



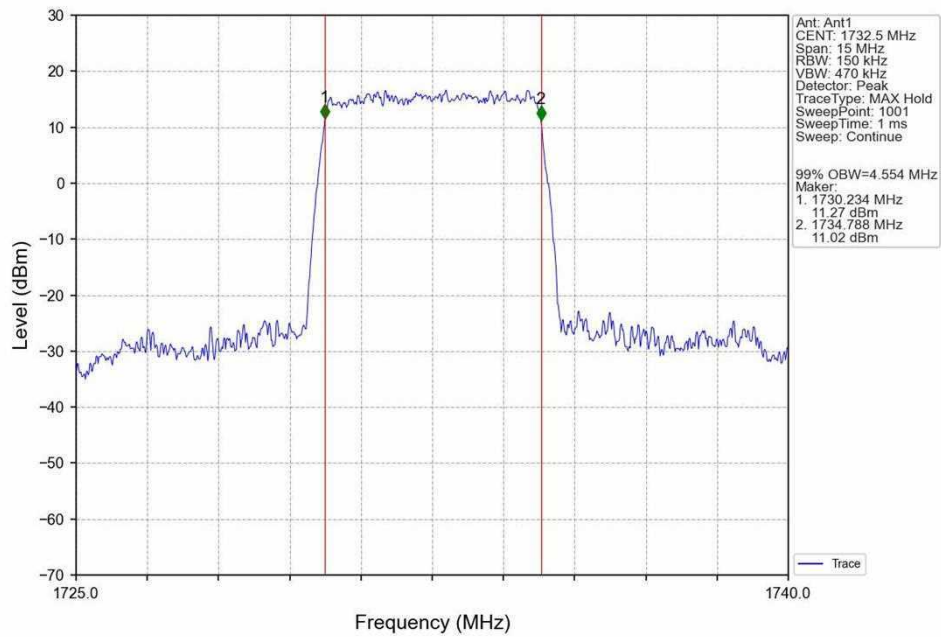
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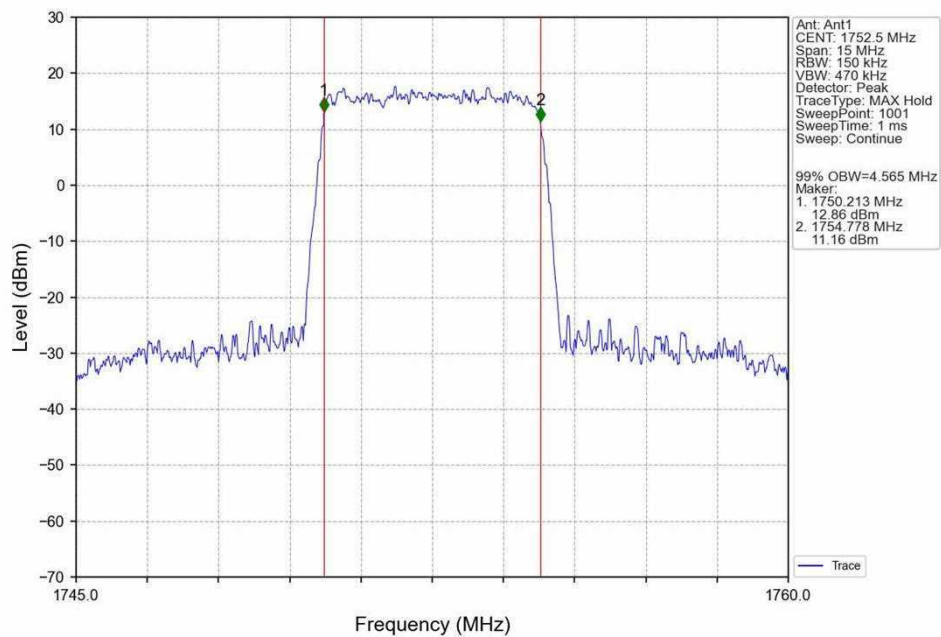
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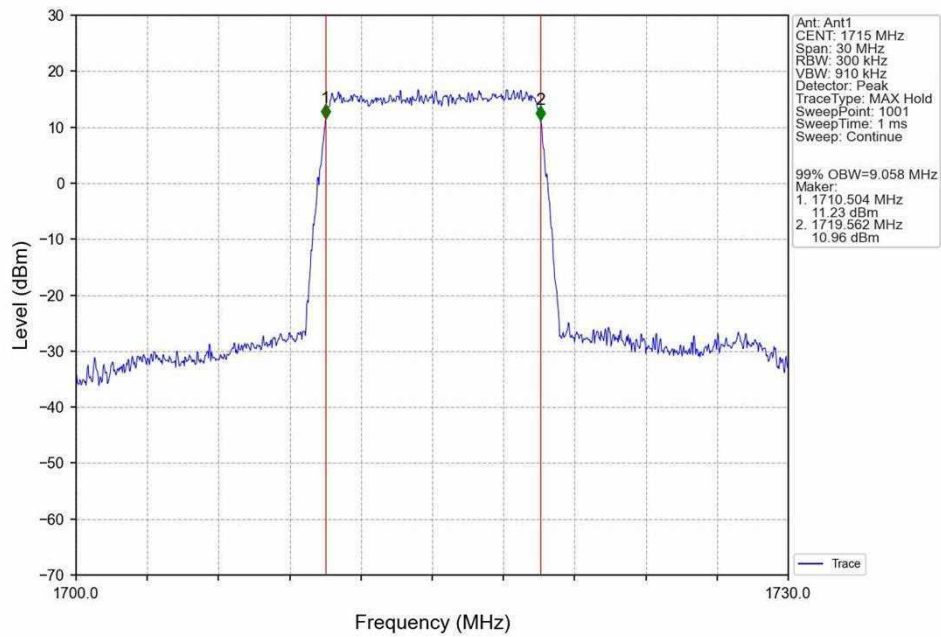
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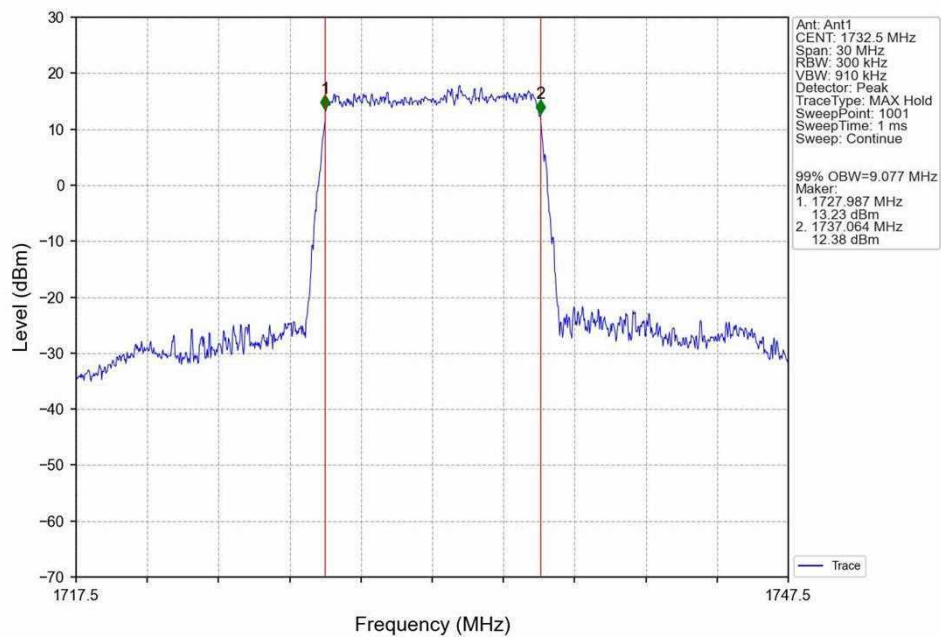
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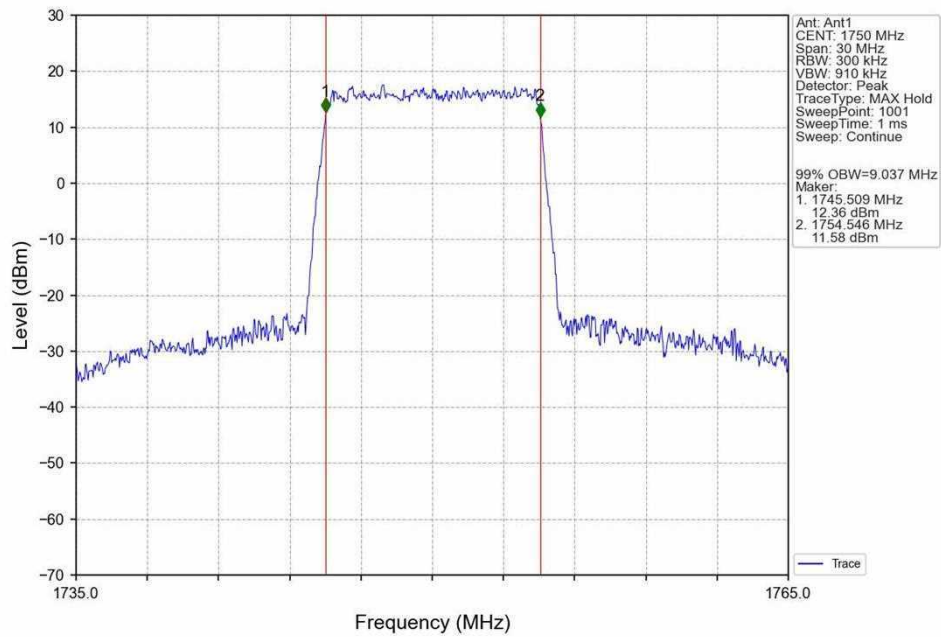
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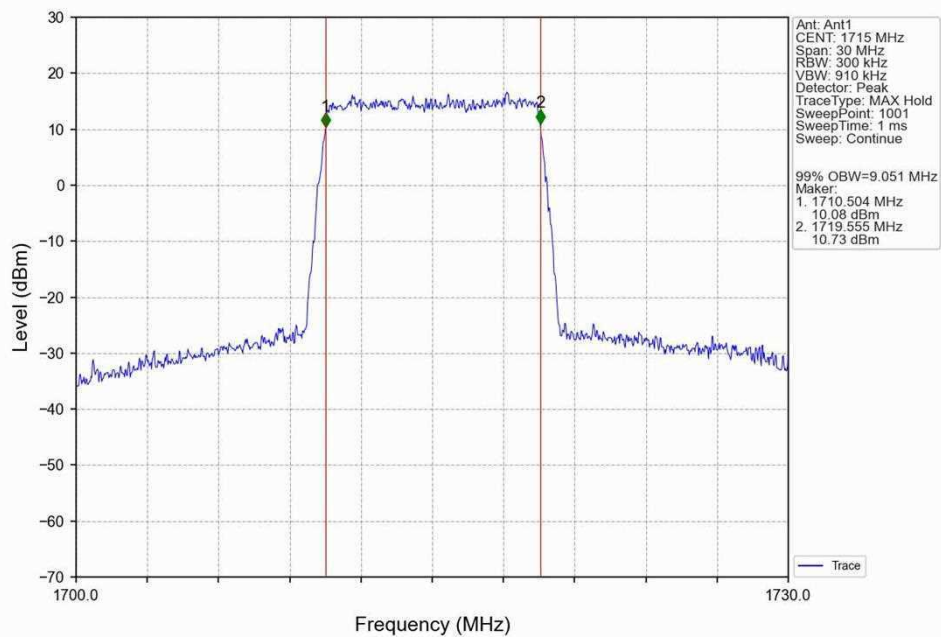
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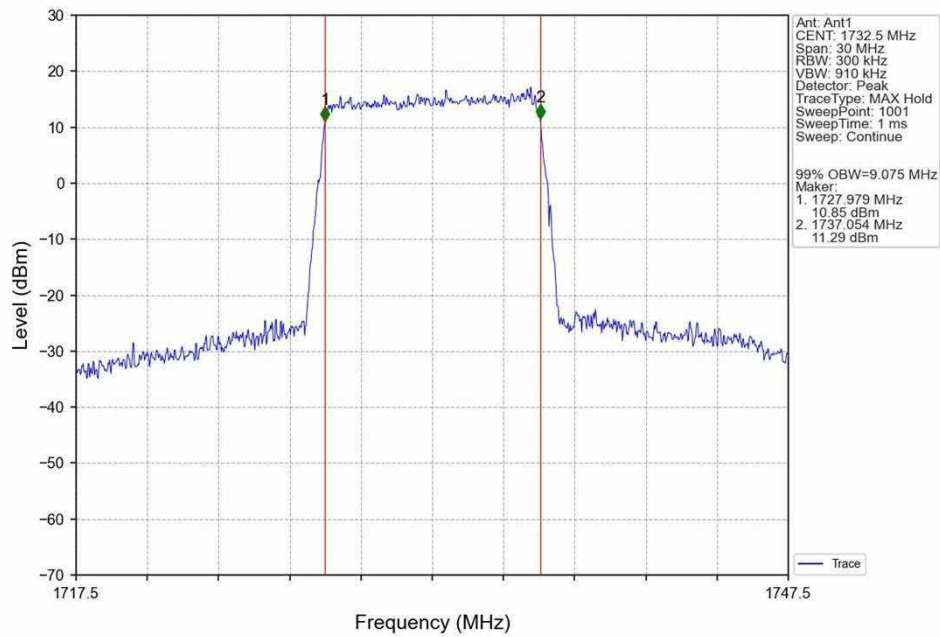
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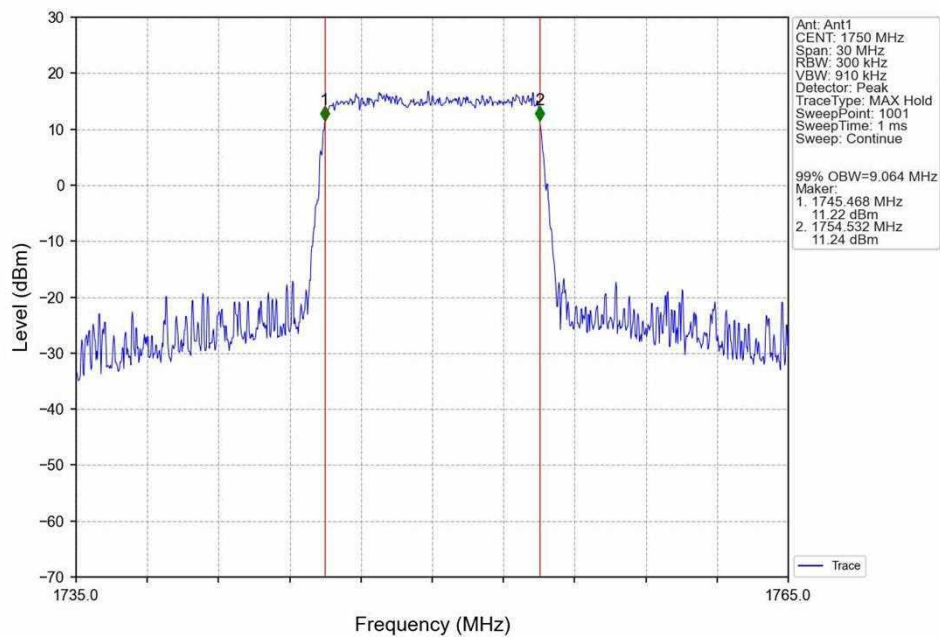
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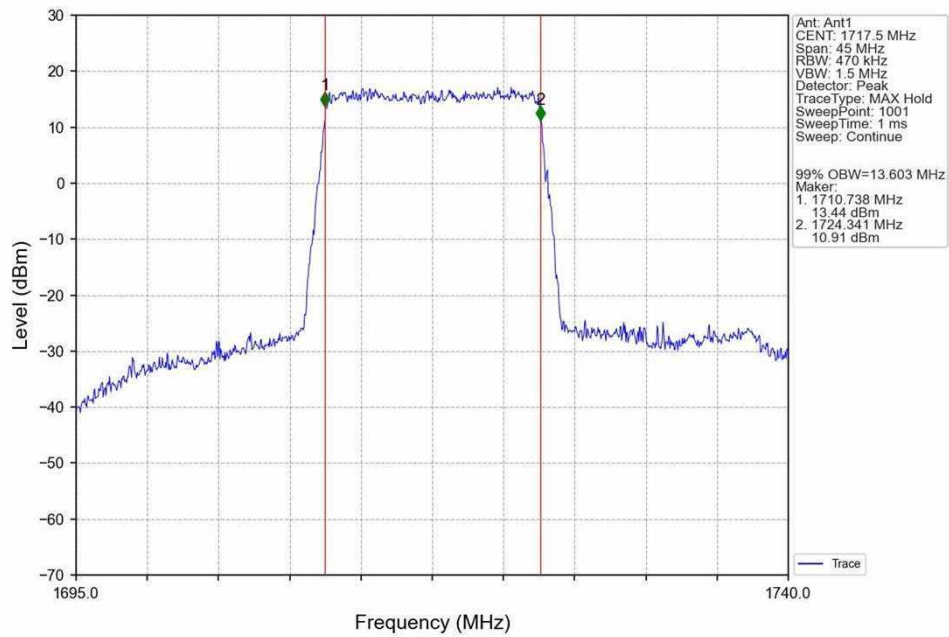
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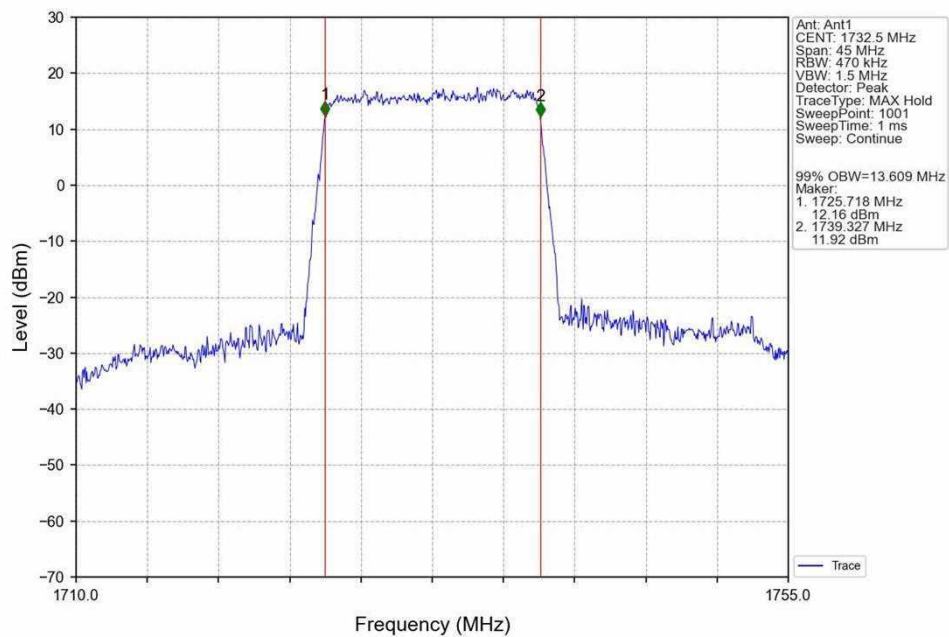
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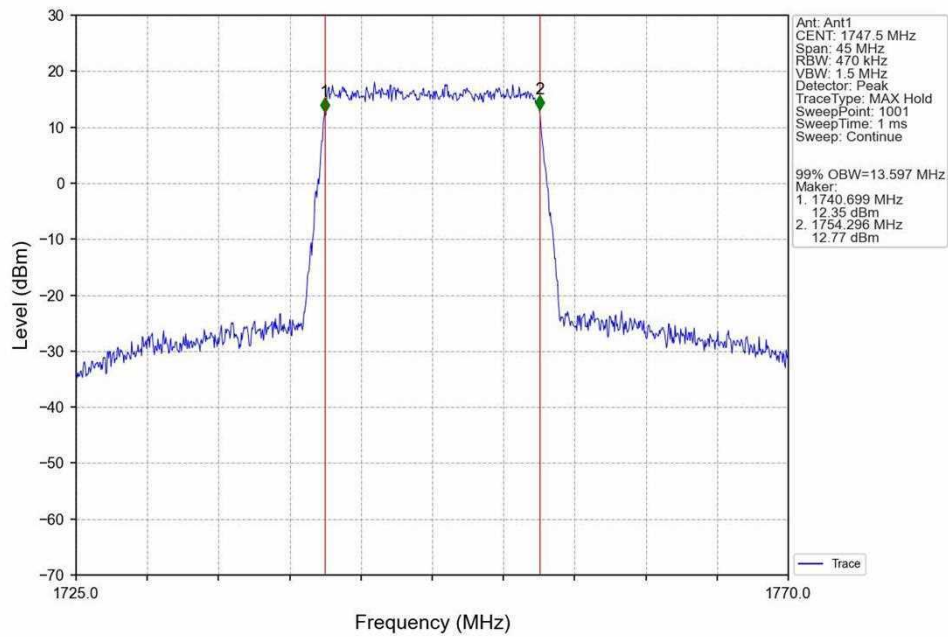
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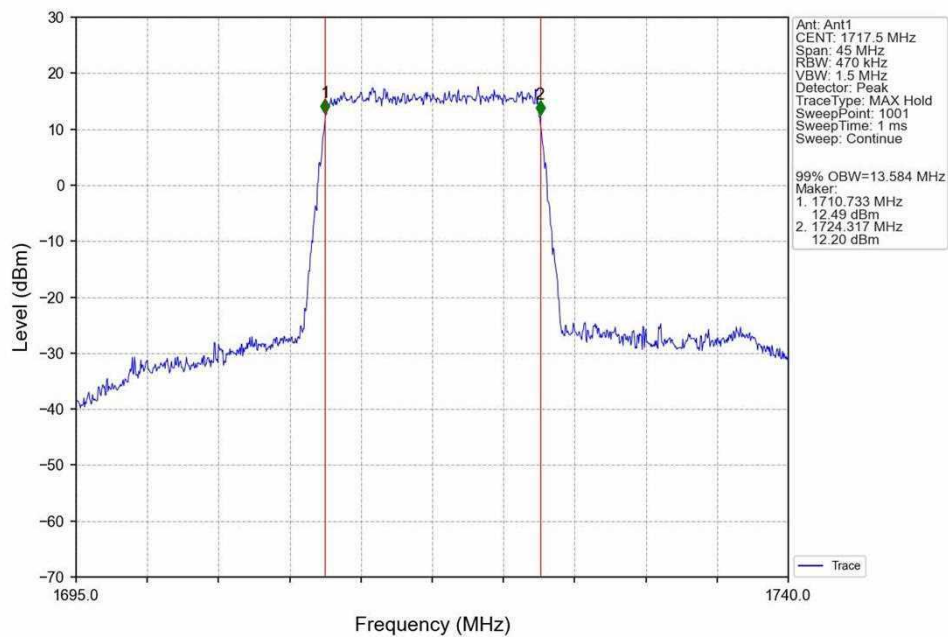
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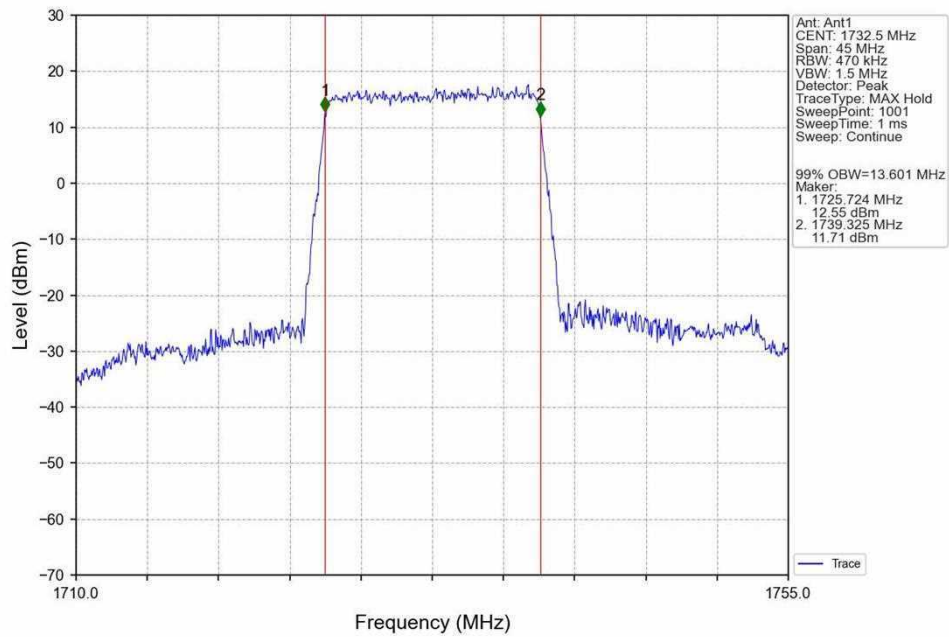
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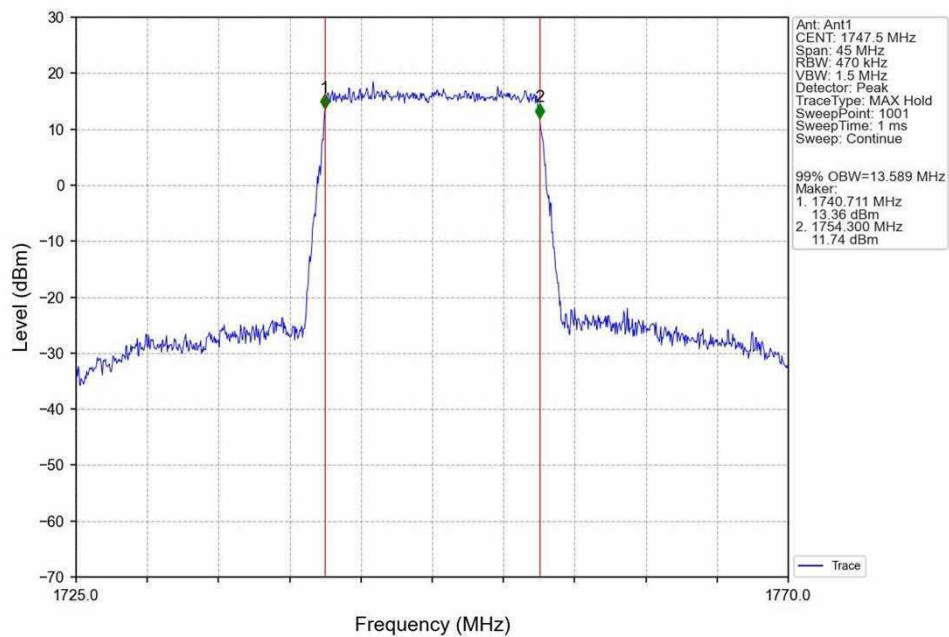
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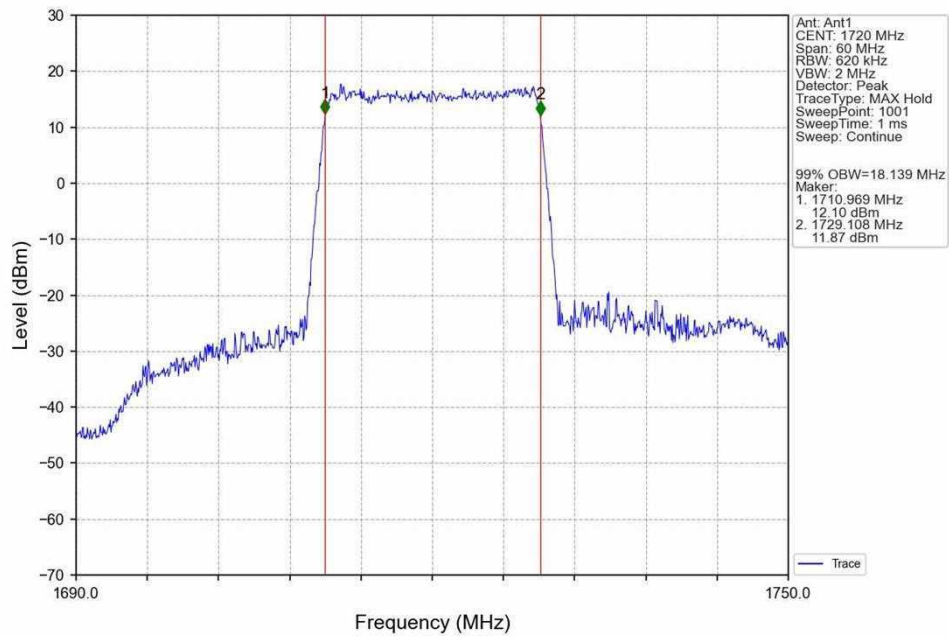
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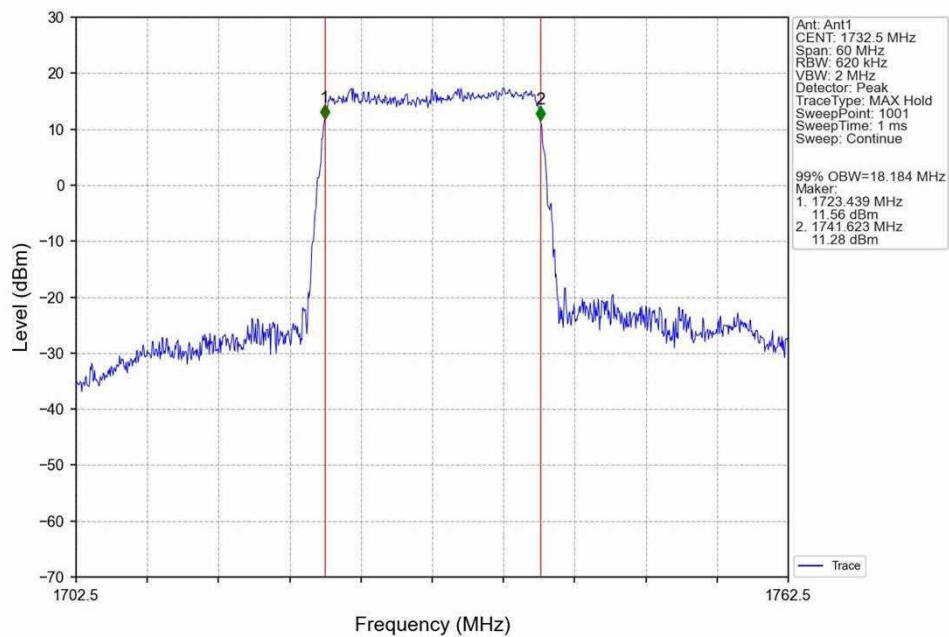
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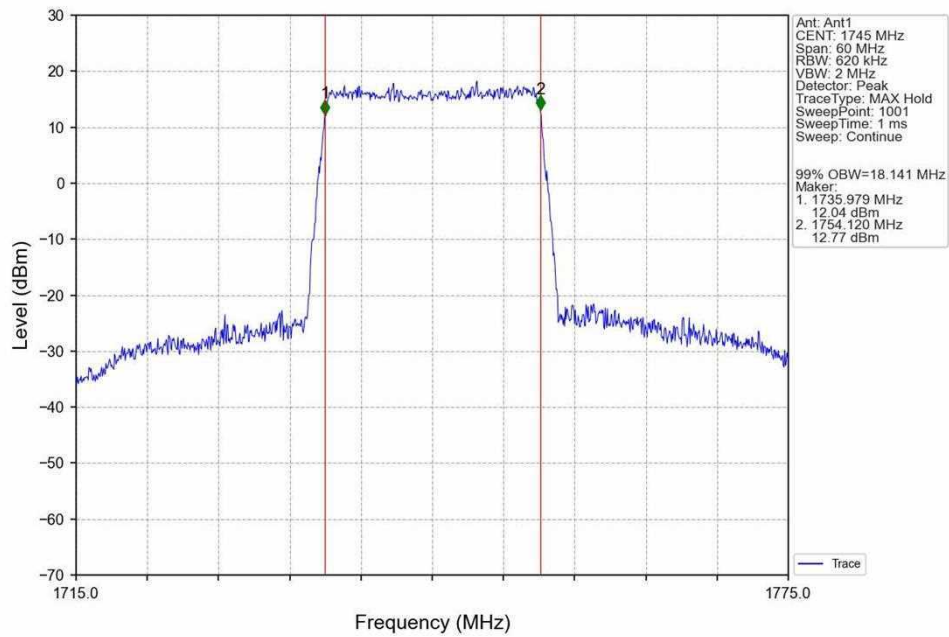
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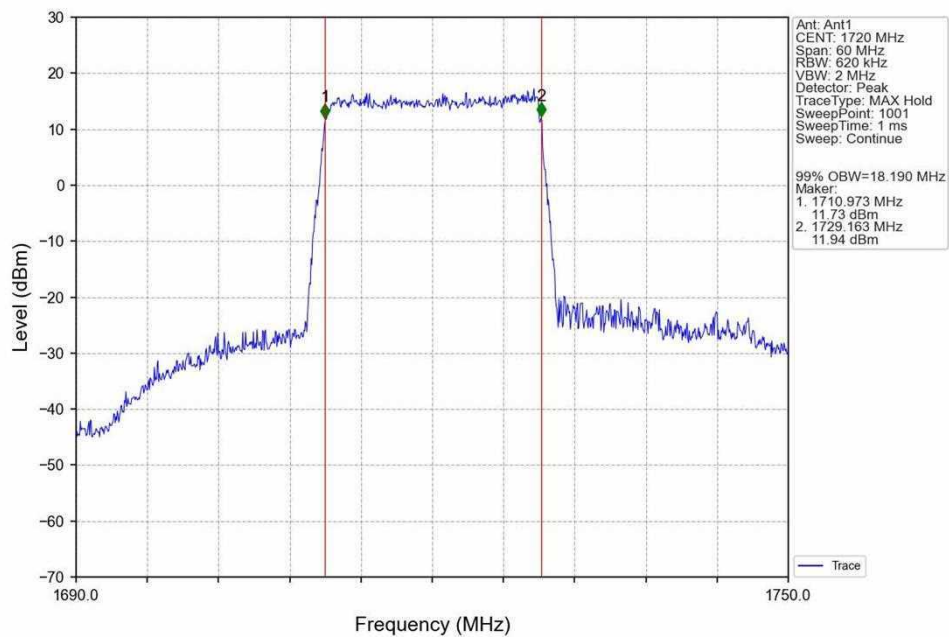
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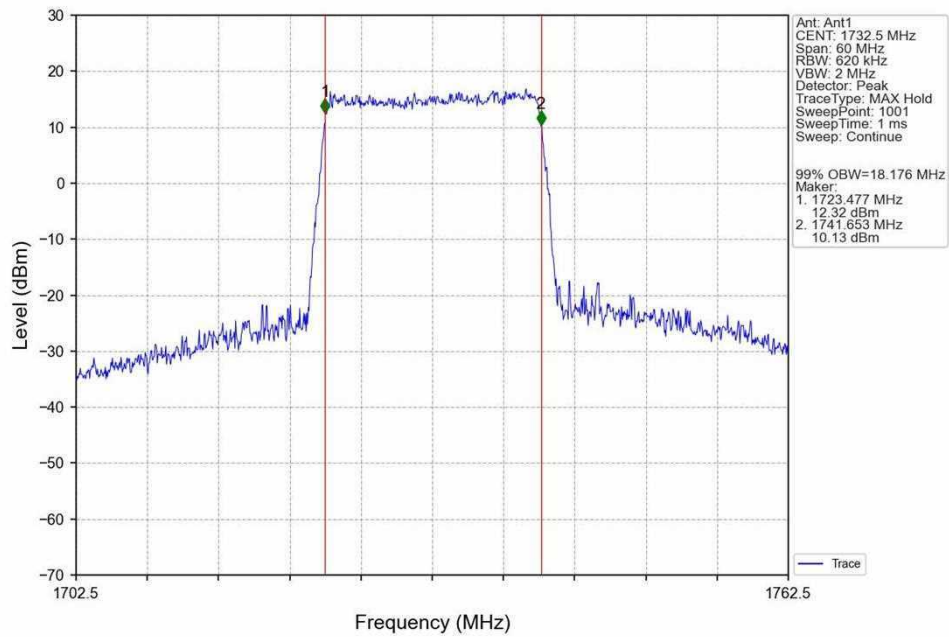
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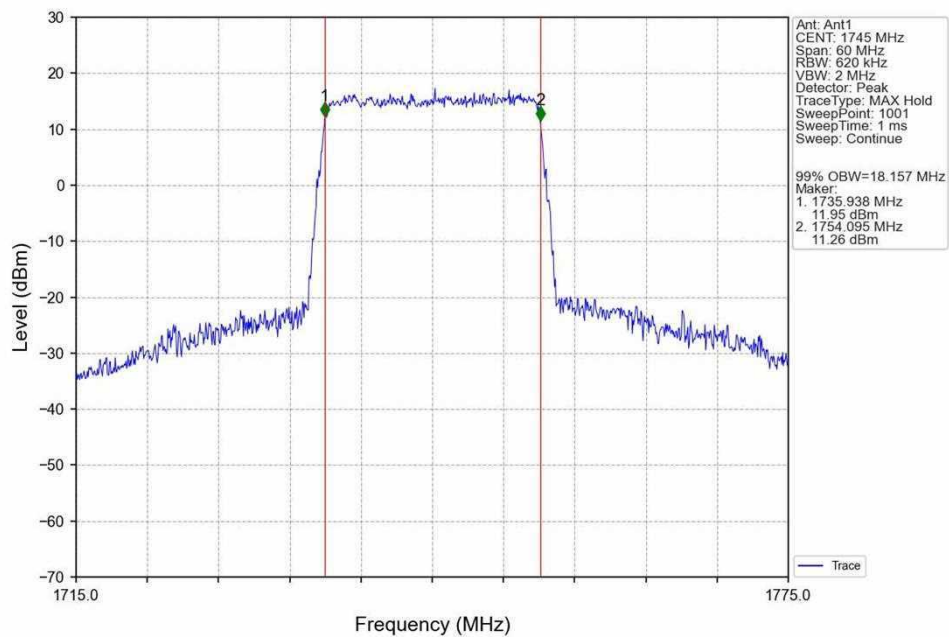
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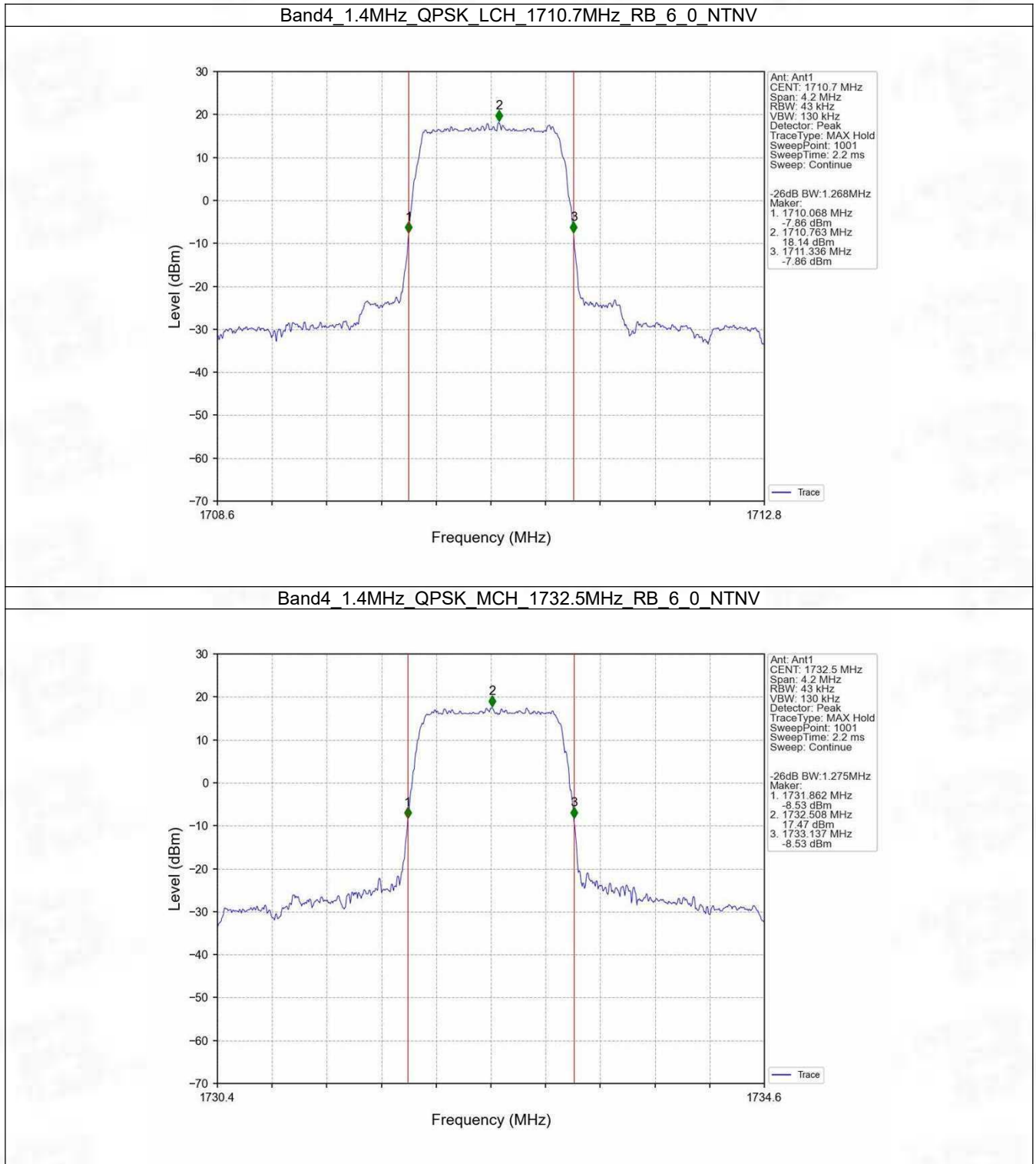
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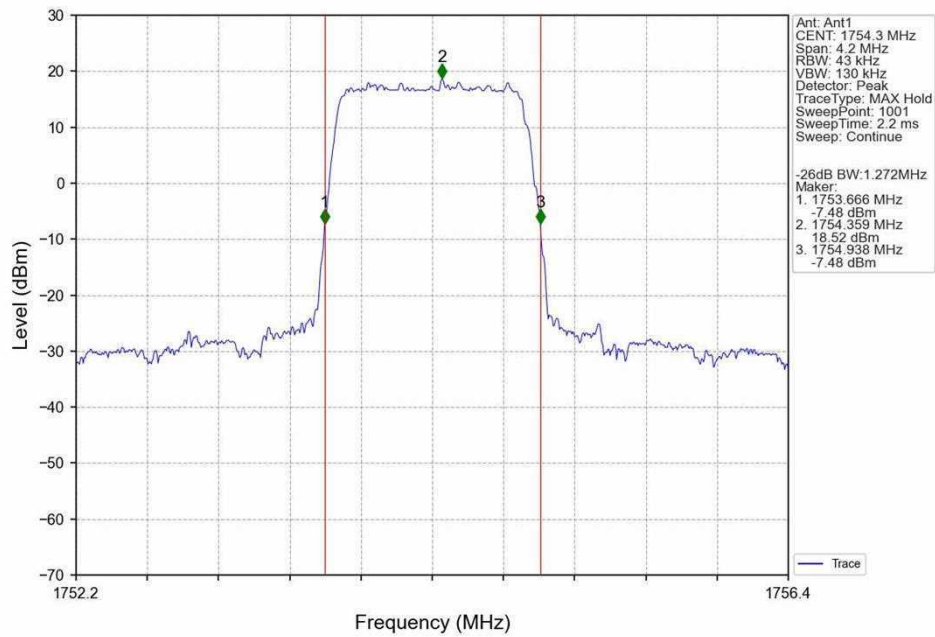
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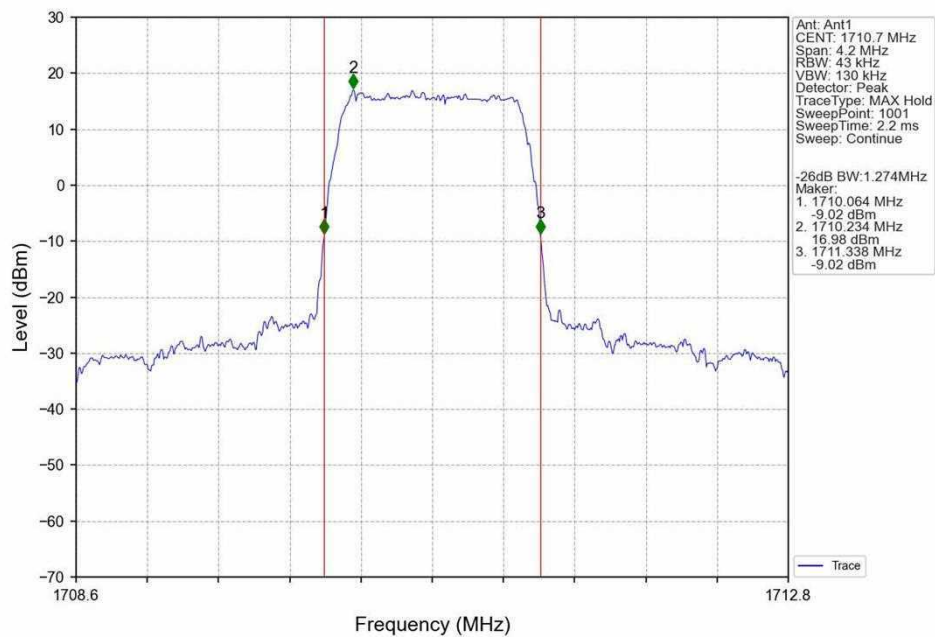
4.2.2 Band4_XDB



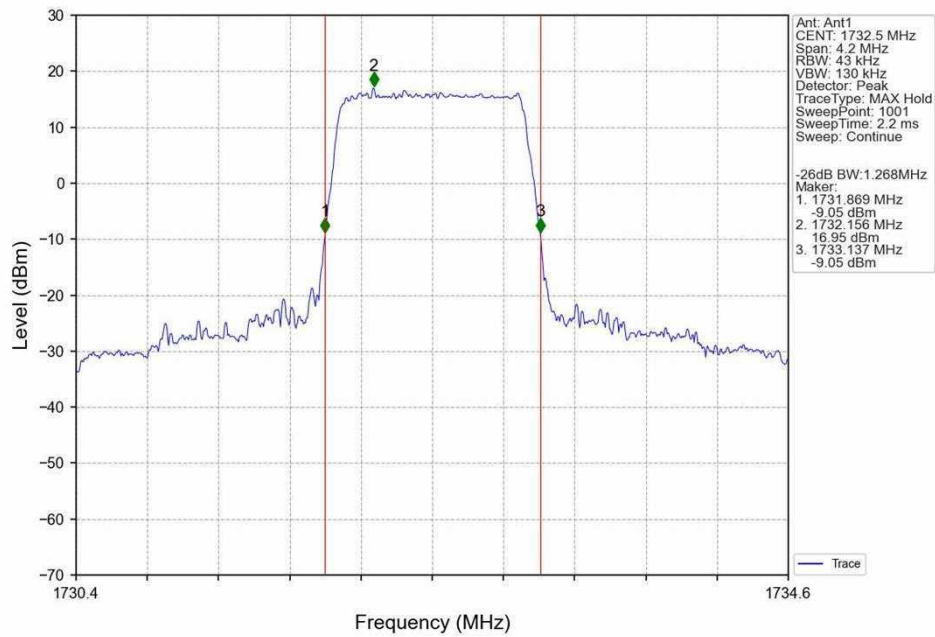
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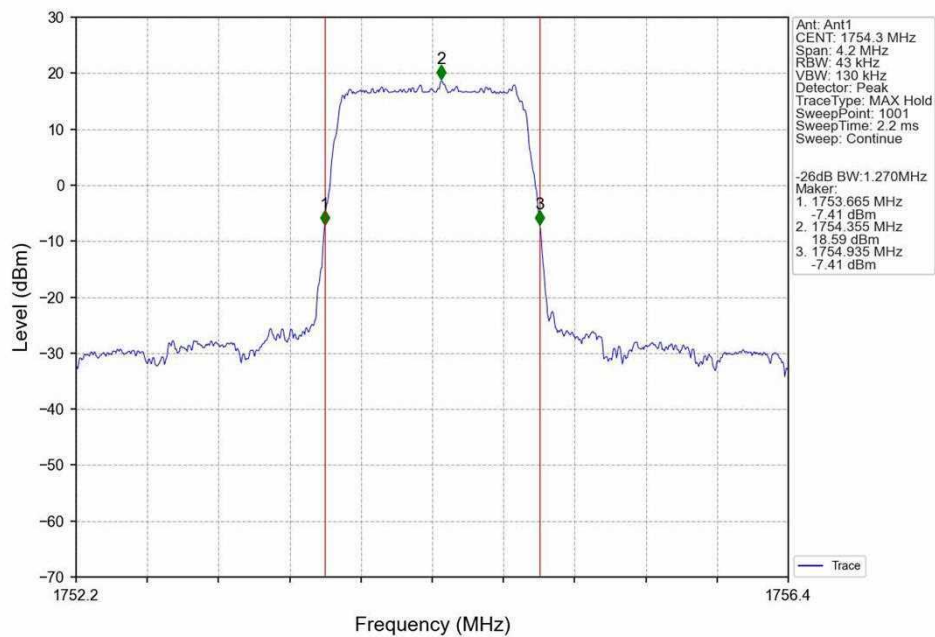
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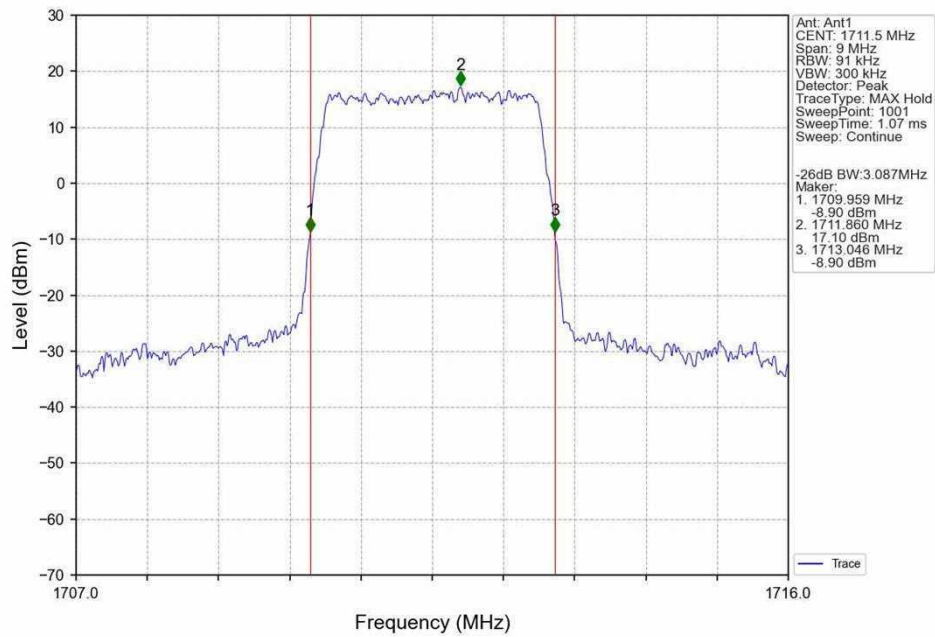
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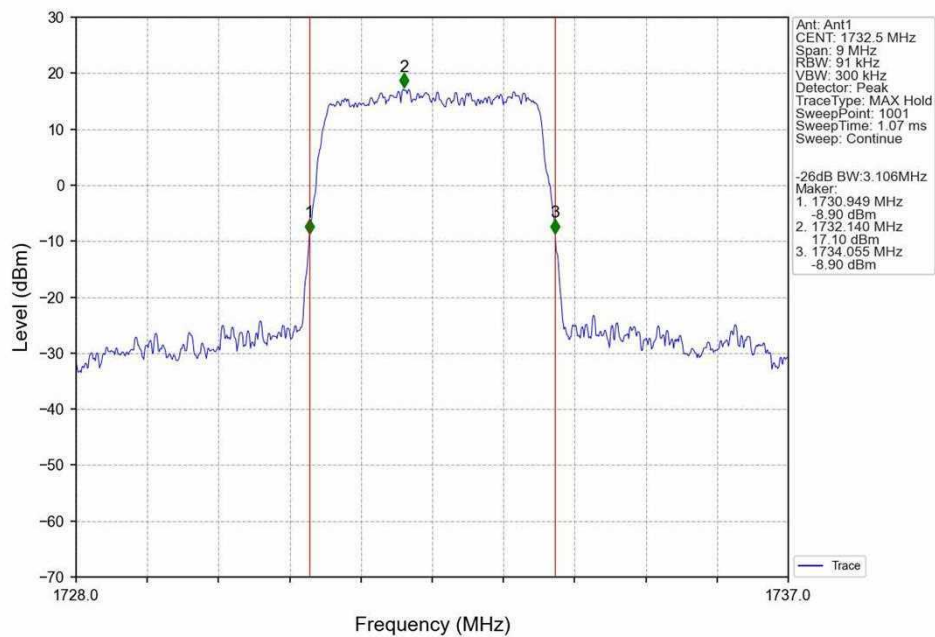
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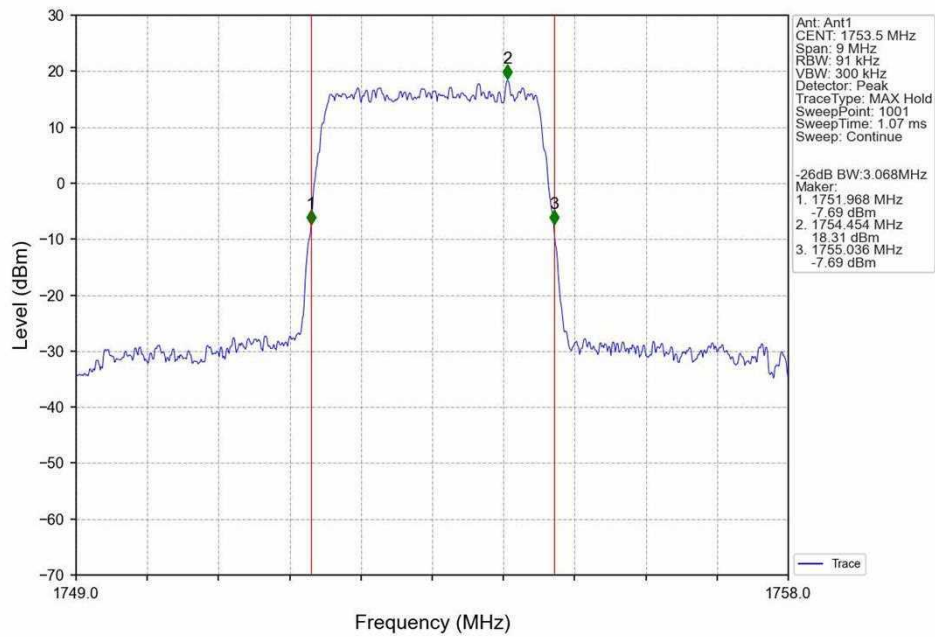
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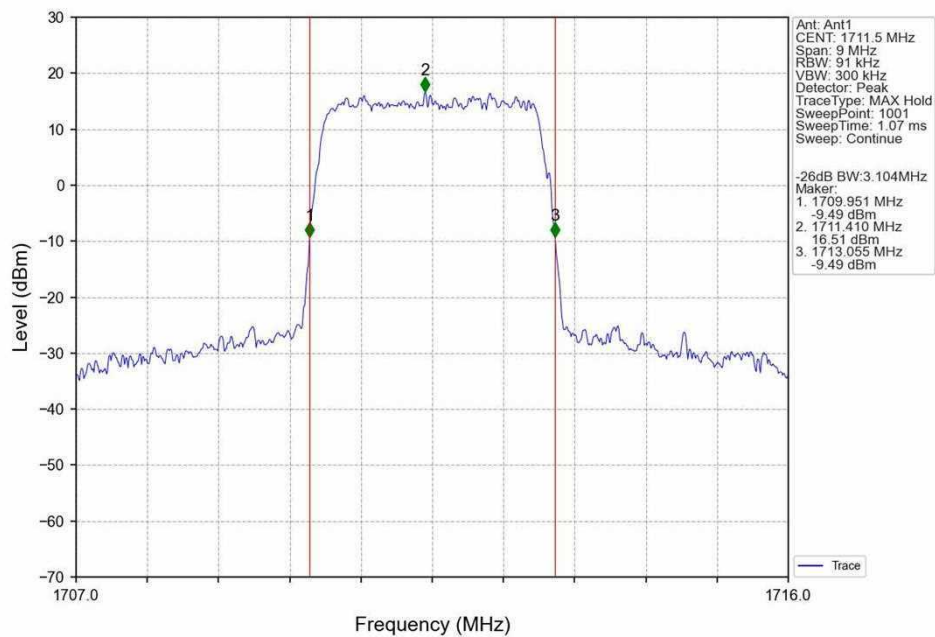
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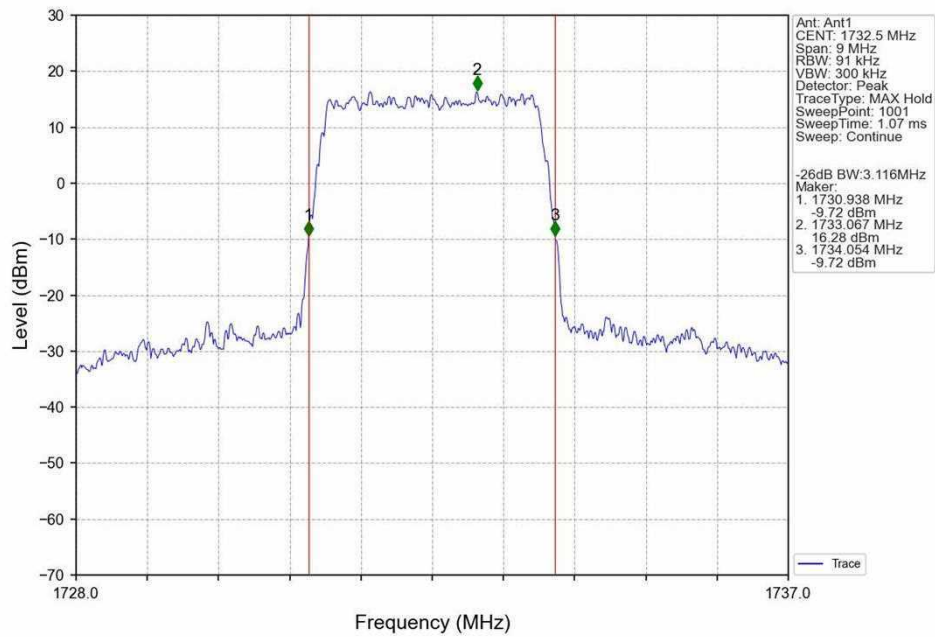
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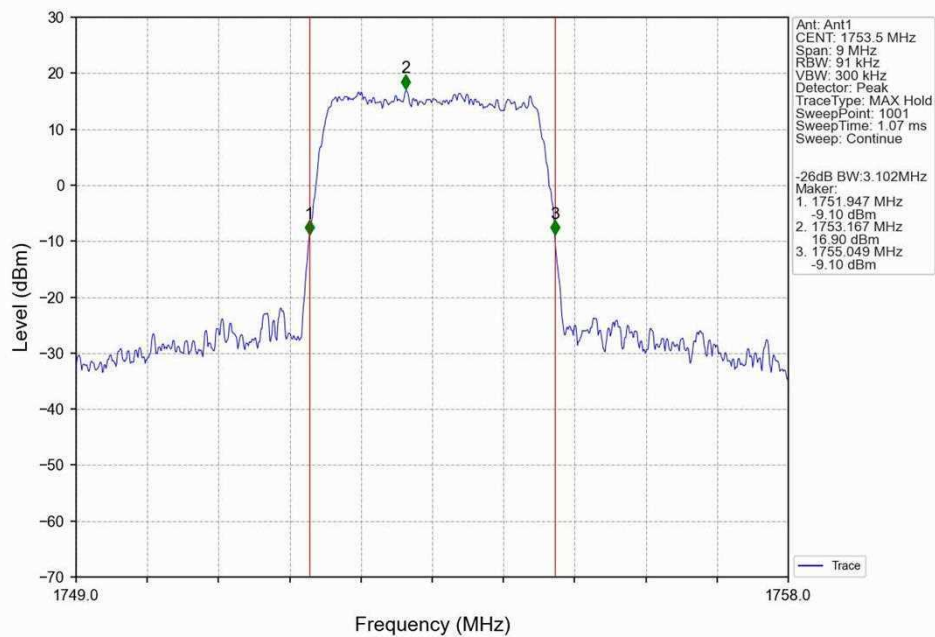
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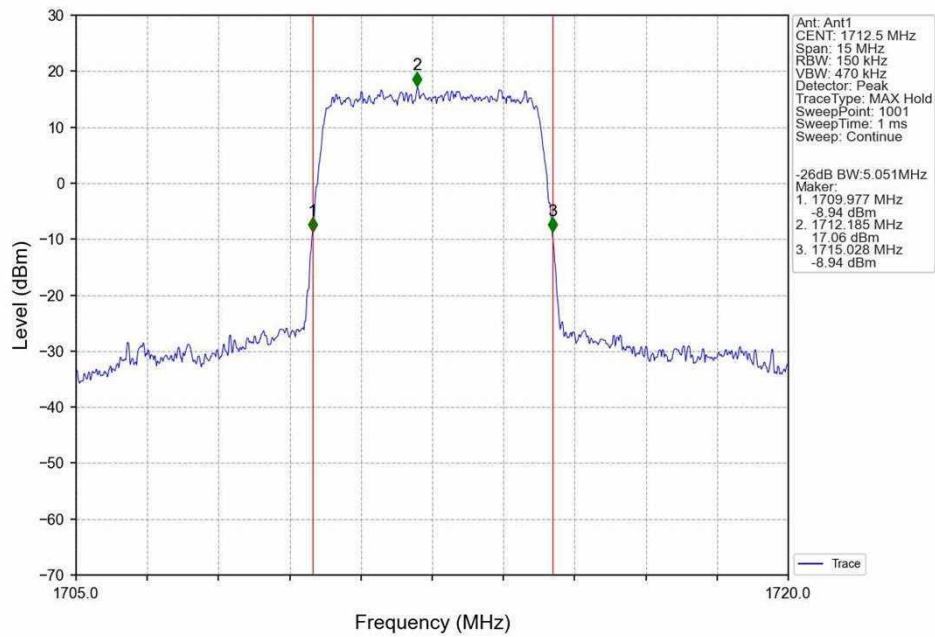
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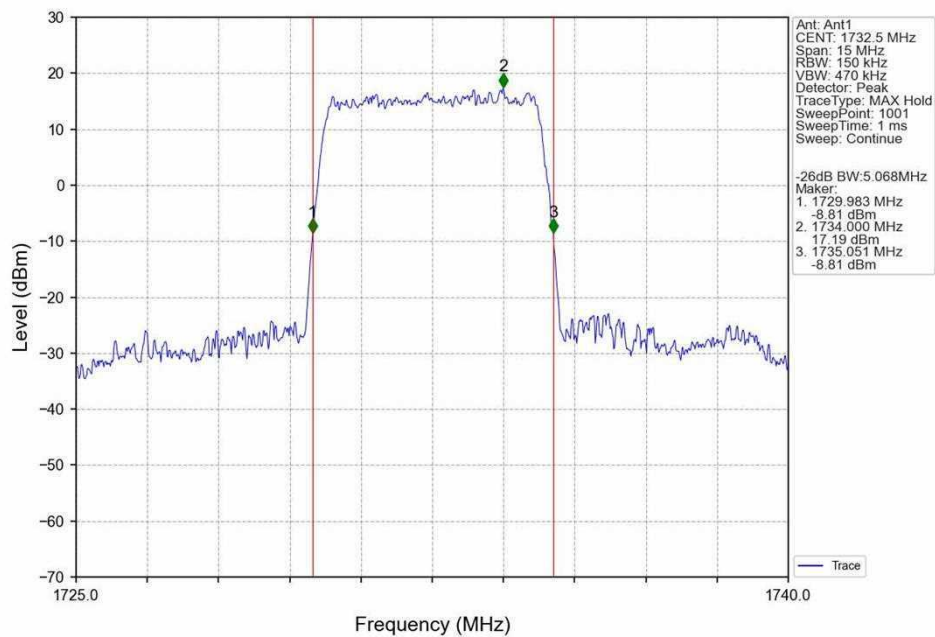
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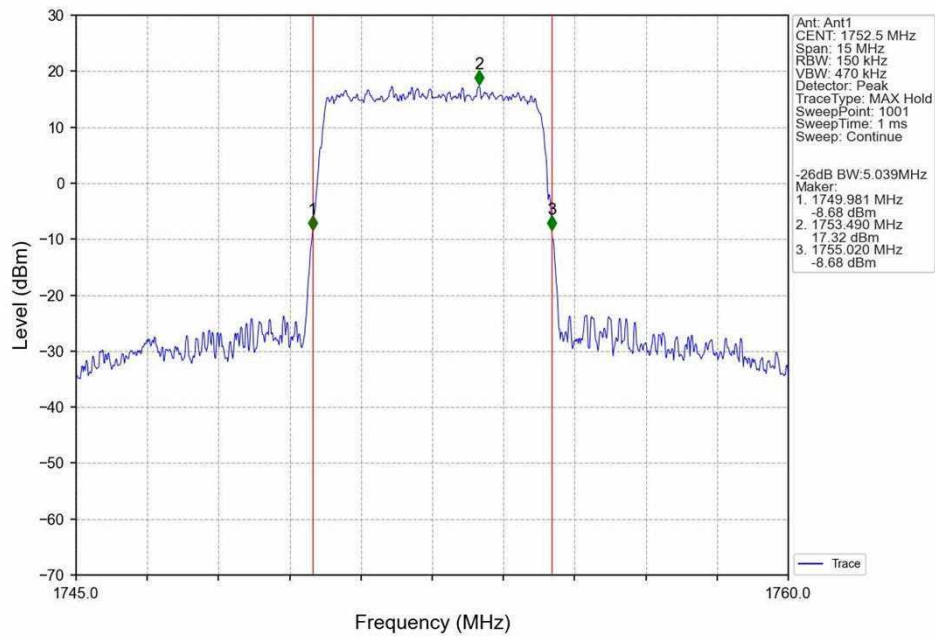
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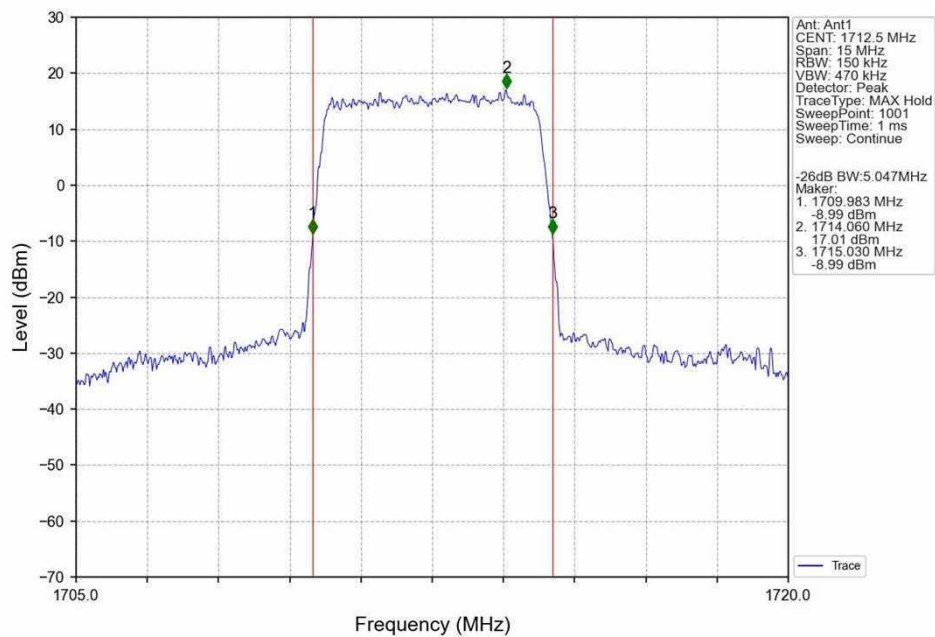
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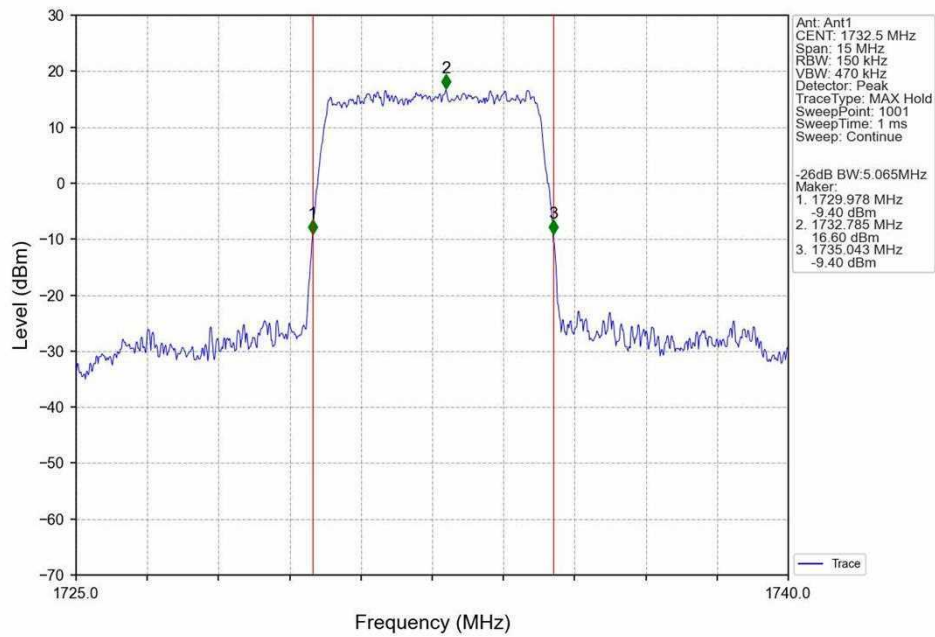
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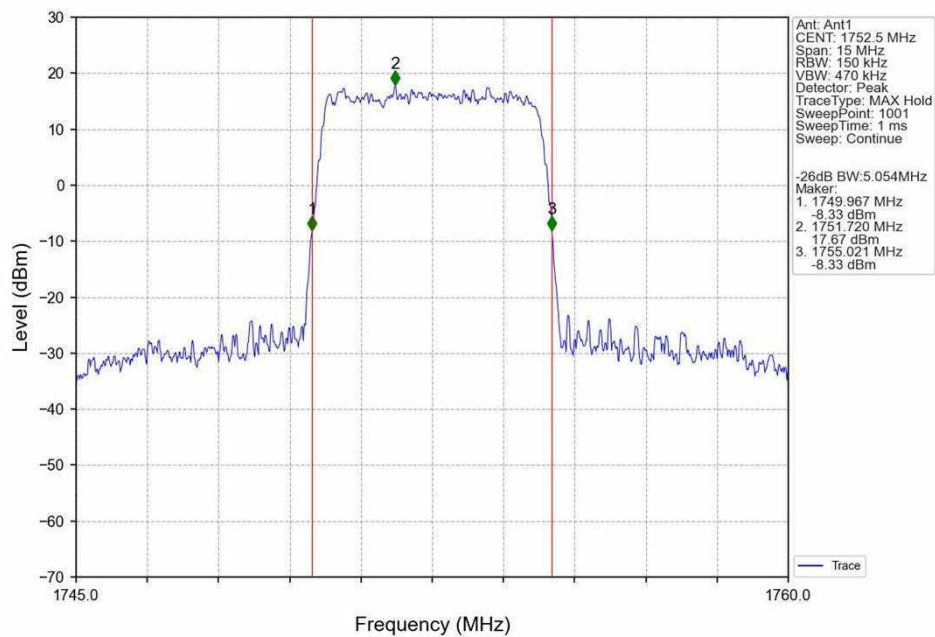
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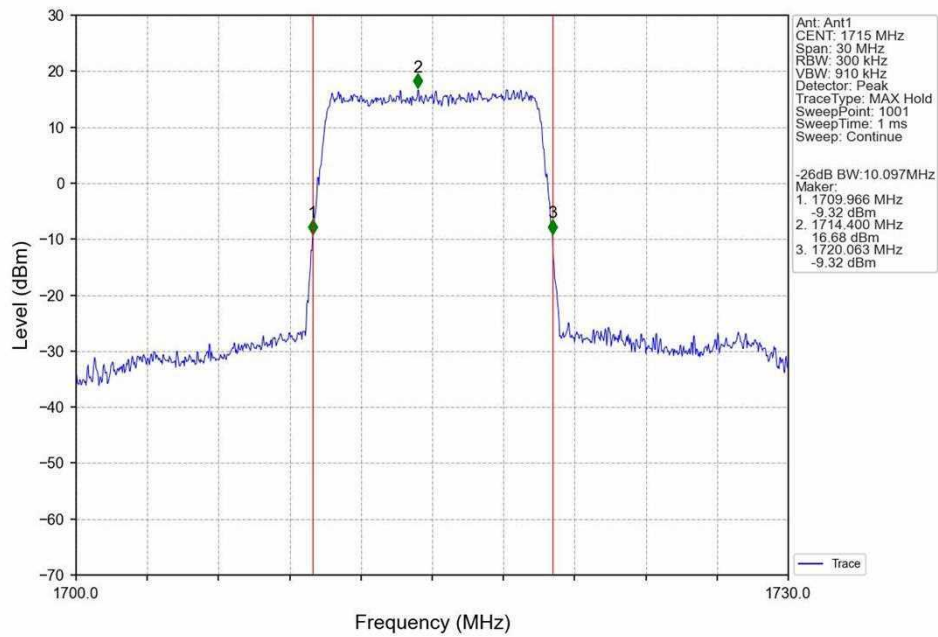
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



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

