

Annex for FCC 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	22.70	2.07	24.77	<=30	Pass
			2	22.70	2.07	24.77	<=30	Pass
			5	22.80	2.07	24.87	<=30	Pass
		3	0	22.64	2.07	24.71	<=30	Pass
			2	22.79	2.07	24.86	<=30	Pass
			3	22.81	2.07	24.88	<=30	Pass
		6	0	21.74	2.07	23.81	<=30	Pass
	1732.5	1	0	22.54	2.07	24.61	<=30	Pass
			2	22.51	2.07	24.58	<=30	Pass
			5	22.55	2.07	24.62	<=30	Pass
		3	0	22.56	2.07	24.63	<=30	Pass
			2	22.57	2.07	24.64	<=30	Pass
			3	22.55	2.07	24.62	<=30	Pass
		6	0	21.57	2.07	23.64	<=30	Pass
	1754.3	1	0	22.66	2.07	24.73	<=30	Pass
			2	22.60	2.07	24.67	<=30	Pass
			5	22.66	2.07	24.73	<=30	Pass
		3	0	22.65	2.07	24.72	<=30	Pass
			2	22.67	2.07	24.74	<=30	Pass
			3	22.63	2.07	24.70	<=30	Pass
		6	0	21.83	2.07	23.90	<=30	Pass
16QAM	1710.7	1	0	21.72	2.07	23.79	<=30	Pass
			2	21.74	2.07	23.81	<=30	Pass
			5	21.87	2.07	23.94	<=30	Pass
		3	0	21.76	2.07	23.83	<=30	Pass
			2	21.81	2.07	23.88	<=30	Pass
			3	21.82	2.07	23.89	<=30	Pass
		6	0	20.71	2.07	22.78	<=30	Pass
	1732.5	1	0	21.74	2.07	23.81	<=30	Pass
			2	21.76	2.07	23.83	<=30	Pass
			5	21.79	2.07	23.86	<=30	Pass
		3	0	21.61	2.07	23.68	<=30	Pass
			2	21.63	2.07	23.70	<=30	Pass
			3	21.64	2.07	23.71	<=30	Pass
		6	0	20.67	2.07	22.74	<=30	Pass
	1754.3	1	0	21.96	2.07	24.03	<=30	Pass
			2	21.94	2.07	24.01	<=30	Pass
			5	21.94	2.07	24.01	<=30	Pass
		3	0	21.76	2.07	23.83	<=30	Pass
			2	21.76	2.07	23.83	<=30	Pass
			3	21.75	2.07	23.82	<=30	Pass
		6	0	20.98	2.07	23.05	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	21.70	2.07	23.77	<=30	Pass	
			7	21.70	2.07	23.77	<=30	Pass	
			14	21.78	2.07	23.85	<=30	Pass	
		8	0	21.76	2.07	23.83	<=30	Pass	
			4	21.75	2.07	23.82	<=30	Pass	
			7	21.79	2.07	23.86	<=30	Pass	
		15	0	21.78	2.07	23.85	<=30	Pass	
		1732.5	1	0	21.53	2.07	23.60	<=30	Pass
				7	21.51	2.07	23.58	<=30	Pass
	14			21.50	2.07	23.57	<=30	Pass	
	8		0	21.49	2.07	23.56	<=30	Pass	
			4	21.59	2.07	23.66	<=30	Pass	
			7	21.58	2.07	23.65	<=30	Pass	
	15	0	21.57	2.07	23.64	<=30	Pass		
	1753.5	1	0	21.83	2.07	23.90	<=30	Pass	
			7	21.84	2.07	23.91	<=30	Pass	
			14	21.85	2.07	23.92	<=30	Pass	
		8	0	21.85	2.07	23.92	<=30	Pass	
			4	21.76	2.07	23.83	<=30	Pass	
			7	21.77	2.07	23.84	<=30	Pass	
		15	0	21.77	2.07	23.84	<=30	Pass	
16QAM		1711.5	1	0	21.78	2.07	23.85	<=30	Pass
				7	21.78	2.07	23.85	<=30	Pass
	14			21.77	2.07	23.84	<=30	Pass	
	8		0	21.77	2.07	23.84	<=30	Pass	
			4	21.77	2.07	23.84	<=30	Pass	
			7	21.77	2.07	23.84	<=30	Pass	
	15		0	21.77	2.07	23.84	<=30	Pass	
	1732.5		1	0	21.57	2.07	23.64	<=30	Pass
				7	21.57	2.07	23.64	<=30	Pass
		14		21.57	2.07	23.64	<=30	Pass	
		8	0	21.57	2.07	23.64	<=30	Pass	
			4	21.56	2.07	23.63	<=30	Pass	
			7	21.56	2.07	23.63	<=30	Pass	
	15	0	21.56	2.07	23.63	<=30	Pass		
	1753.5	1	0	21.77	2.07	23.84	<=30	Pass	
			7	21.78	2.07	23.85	<=30	Pass	
			14	21.78	2.07	23.85	<=30	Pass	
		8	0	21.78	2.07	23.85	<=30	Pass	
			4	21.78	2.07	23.85	<=30	Pass	
			7	21.78	2.07	23.85	<=30	Pass	
		15	0	21.78	2.07	23.85	<=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	22.81	2.07	24.88	<=30	Pass
			13	22.99	2.07	25.06	<=30	Pass
			24	22.94	2.07	25.01	<=30	Pass
		12	0	21.71	2.07	23.78	<=30	Pass
			6	21.89	2.07	23.96	<=30	Pass

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			13	21.83	2.07	23.90	<=30	Pass	
		25	0	21.79	2.07	23.86	<=30	Pass	
	1732.5	1	0	22.62	2.07	24.69	<=30	Pass	
			13	22.67	2.07	24.74	<=30	Pass	
			24	22.54	2.07	24.61	<=30	Pass	
		12	0	21.45	2.07	23.52	<=30	Pass	
			6	21.56	2.07	23.63	<=30	Pass	
			13	21.44	2.07	23.51	<=30	Pass	
		25	0	21.46	2.07	23.53	<=30	Pass	
	1752.5	1	0	22.55	2.07	24.62	<=30	Pass	
			13	22.74	2.07	24.81	<=30	Pass	
			24	22.75	2.07	24.82	<=30	Pass	
		12	0	21.62	2.07	23.69	<=30	Pass	
			6	21.77	2.07	23.84	<=30	Pass	
			13	21.76	2.07	23.83	<=30	Pass	
		25	0	21.67	2.07	23.74	<=30	Pass	
	16QAM	1712.5	1	0	21.64	2.07	23.71	<=30	Pass
				13	21.85	2.07	23.92	<=30	Pass
				24	21.76	2.07	23.83	<=30	Pass
			12	0	20.71	2.07	22.78	<=30	Pass
				6	20.84	2.07	22.91	<=30	Pass
13				20.85	2.07	22.92	<=30	Pass	
25			0	20.76	2.07	22.83	<=30	Pass	
1732.5		1	0	21.68	2.07	23.75	<=30	Pass	
			13	21.76	2.07	23.83	<=30	Pass	
			24	21.61	2.07	23.68	<=30	Pass	
		12	0	20.57	2.07	22.64	<=30	Pass	
			6	20.65	2.07	22.72	<=30	Pass	
			13	20.49	2.07	22.56	<=30	Pass	
		25	0	20.60	2.07	22.67	<=30	Pass	
1752.5		1	0	21.88	2.07	23.95	<=30	Pass	
			13	22.06	2.07	24.13	<=30	Pass	
			24	22.03	2.07	24.10	<=30	Pass	
		12	0	20.75	2.07	22.82	<=30	Pass	
			6	20.90	2.07	22.97	<=30	Pass	
			13	20.94	2.07	23.01	<=30	Pass	
		25	0	20.76	2.07	22.83	<=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	22.69	2.07	24.76	<=30	Pass
			25	22.88	2.07	24.95	<=30	Pass
			49	22.74	2.07	24.81	<=30	Pass
		25	0	21.65	2.07	23.72	<=30	Pass
			13	21.86	2.07	23.93	<=30	Pass
			25	21.74	2.07	23.81	<=30	Pass
	1732.5	50	0	21.65	2.07	23.72	<=30	Pass
		1	0	22.56	2.07	24.63	<=30	Pass
			25	22.58	2.07	24.65	<=30	Pass
			49	22.35	2.07	24.42	<=30	Pass
		25	0	21.36	2.07	23.43	<=30	Pass
			13	21.54	2.07	23.61	<=30	Pass
			25	21.33	2.07	23.40	<=30	Pass
		50	0	21.39	2.07	23.46	<=30	Pass

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	1750	1	0	22.42	2.07	24.49	<=30	Pass
			25	22.55	2.07	24.62	<=30	Pass
			49	22.53	2.07	24.60	<=30	Pass
		25	0	21.43	2.07	23.50	<=30	Pass
			13	21.60	2.07	23.67	<=30	Pass
			25	21.50	2.07	23.57	<=30	Pass
		50	0	21.40	2.07	23.47	<=30	Pass
16QAM	1715	1	0	22.16	2.07	24.23	<=30	Pass
			25	22.46	2.07	24.53	<=30	Pass
			49	22.22	2.07	24.29	<=30	Pass
		25	0	18.95	2.07	21.02	<=30	Pass
			13	18.93	2.07	21.00	<=30	Pass
			25	18.91	2.07	20.98	<=30	Pass
		50	0	18.88	2.07	20.95	<=30	Pass
	1732.5	1	0	21.58	2.07	23.65	<=30	Pass
			25	21.67	2.07	23.74	<=30	Pass
			49	21.42	2.07	23.49	<=30	Pass
		25	0	18.99	2.07	21.06	<=30	Pass
			13	18.98	2.07	21.05	<=30	Pass
			25	18.94	2.07	21.01	<=30	Pass
		50	0	18.94	2.07	21.01	<=30	Pass
	1750	1	0	21.63	2.07	23.70	<=30	Pass
			25	21.80	2.07	23.87	<=30	Pass
			49	21.74	2.07	23.81	<=30	Pass
		25	0	18.89	2.07	20.96	<=30	Pass
			13	18.82	2.07	20.89	<=30	Pass
			25	18.82	2.07	20.89	<=30	Pass
		50	0	18.77	2.07	20.84	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.61	2.07	24.68	<=30	Pass
			38	22.83	2.07	24.90	<=30	Pass
			74	22.54	2.07	24.61	<=30	Pass
		36	0	21.75	2.07	23.82	<=30	Pass
			18	21.85	2.07	23.92	<=30	Pass
			39	21.61	2.07	23.68	<=30	Pass
		75	0	21.62	2.07	23.69	<=30	Pass
	1732.5	1	0	22.55	2.07	24.62	<=30	Pass
			38	22.50	2.07	24.57	<=30	Pass
			74	22.32	2.07	24.39	<=30	Pass
		36	0	21.45	2.07	23.52	<=30	Pass
			18	21.52	2.07	23.59	<=30	Pass
			39	21.41	2.07	23.48	<=30	Pass
		75	0	21.45	2.07	23.52	<=30	Pass
	1747.5	1	0	22.35	2.07	24.42	<=30	Pass
			38	22.43	2.07	24.50	<=30	Pass
			74	22.57	2.07	24.64	<=30	Pass
		36	0	21.48	2.07	23.55	<=30	Pass
			18	21.52	2.07	23.59	<=30	Pass
			39	21.53	2.07	23.60	<=30	Pass
		75	0	21.48	2.07	23.55	<=30	Pass
16QAM	1717.5	1	0	21.99	2.07	24.06	<=30	Pass
			38	22.27	2.07	24.34	<=30	Pass

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		36	74	22.02	2.07	24.09	<=30	Pass
			0	18.95	2.07	21.02	<=30	Pass
			18	18.93	2.07	21.00	<=30	Pass
			39	18.91	2.07	20.98	<=30	Pass
		75	0	18.88	2.07	20.95	<=30	Pass
	1732.5	1	0	21.77	2.07	23.84	<=30	Pass
			38	21.74	2.07	23.81	<=30	Pass
			74	21.56	2.07	23.63	<=30	Pass
		36	0	18.88	2.07	20.95	<=30	Pass
			18	18.91	2.07	20.98	<=30	Pass
			39	18.86	2.07	20.93	<=30	Pass
		75	0	18.91	2.07	20.98	<=30	Pass
	1747.5	1	0	21.98	2.07	24.05	<=30	Pass
			38	22.13	2.07	24.20	<=30	Pass
			74	22.22	2.07	24.29	<=30	Pass
		36	0	18.91	2.07	20.98	<=30	Pass
			18	18.88	2.07	20.95	<=30	Pass
			39	18.79	2.07	20.86	<=30	Pass
		75	0	18.81	2.07	20.88	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.52	2.07	24.59	<=30	Pass
			50	22.77	2.07	24.84	<=30	Pass
			99	22.30	2.07	24.37	<=30	Pass
		50	0	21.70	2.07	23.77	<=30	Pass
			25	21.78	2.07	23.85	<=30	Pass
			50	21.48	2.07	23.55	<=30	Pass
		100	0	21.55	2.07	23.62	<=30	Pass
	1732.5	1	0	22.49	2.07	24.56	<=30	Pass
			50	22.61	2.07	24.68	<=30	Pass
			99	22.24	2.07	24.31	<=30	Pass
		50	0	21.36	2.07	23.43	<=30	Pass
			25	21.52	2.07	23.59	<=30	Pass
			50	21.30	2.07	23.37	<=30	Pass
		100	0	21.35	2.07	23.42	<=30	Pass
	1745	1	0	22.29	2.07	24.36	<=30	Pass
			50	22.43	2.07	24.50	<=30	Pass
			99	22.43	2.07	24.50	<=30	Pass
		50	0	21.31	2.07	23.38	<=30	Pass
			25	21.45	2.07	23.52	<=30	Pass
			50	21.40	2.07	23.47	<=30	Pass
		100	0	21.38	2.07	23.45	<=30	Pass
16QAM	1720	1	0	22.13	2.07	24.20	<=30	Pass
			50	22.29	2.07	24.36	<=30	Pass
			99	21.95	2.07	24.02	<=30	Pass
		50	0	18.84	2.07	20.91	<=30	Pass
			25	18.88	2.07	20.95	<=30	Pass
			50	18.80	2.07	20.87	<=30	Pass
		100	0	18.85	2.07	20.92	<=30	Pass
	1732.5	1	0	21.74	2.07	23.81	<=30	Pass
			50	21.81	2.07	23.88	<=30	Pass
			99	21.53	2.07	23.60	<=30	Pass
		50	0	18.88	2.07	20.95	<=30	Pass

		100	25	18.89	2.07	20.96	<=30	Pass
			50	18.86	2.07	20.93	<=30	Pass
			0	18.84	2.07	20.91	<=30	Pass
	1745	1	0	21.56	2.07	23.63	<=30	Pass
			50	21.89	2.07	23.96	<=30	Pass
			99	21.71	2.07	23.78	<=30	Pass
		50	0	18.81	2.07	20.88	<=30	Pass
			25	18.87	2.07	20.94	<=30	Pass
			50	18.76	2.07	20.83	<=30	Pass
		100	0	18.80	2.07	20.87	<=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	3.15	-20.957	-0.0123	-2.5 to 2.5	Pass
					3.70	-18.768	-0.0110	-2.5 to 2.5	Pass
					4.26	-17.109	-0.0100	-2.5 to 2.5	Pass
				-30	3.70	-18.010	-0.0105	-2.5 to 2.5	Pass
				-20	3.70	-18.339	-0.0107	-2.5 to 2.5	Pass
				-10	3.70	-17.009	-0.0099	-2.5 to 2.5	Pass
				0	3.70	-15.907	-0.0093	-2.5 to 2.5	Pass
				10	3.70	-14.863	-0.0087	-2.5 to 2.5	Pass
				30	3.70	-21.486	-0.0126	-2.5 to 2.5	Pass
				40	3.70	-21.229	-0.0124	-2.5 to 2.5	Pass
				50	3.70	-21.272	-0.0124	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.15	-18.268	-0.0105	-2.5 to 2.5	Pass
					3.70	-15.707	-0.0091	-2.5 to 2.5	Pass
					4.26	-19.784	-0.0114	-2.5 to 2.5	Pass
				-30	3.70	-7.024	-0.0041	-2.5 to 2.5	Pass
				-20	3.70	-21.286	-0.0123	-2.5 to 2.5	Pass
				-10	3.70	-11.759	-0.0068	-2.5 to 2.5	Pass
				0	3.70	-11.215	-0.0065	-2.5 to 2.5	Pass
				10	3.70	-18.997	-0.0110	-2.5 to 2.5	Pass
				30	3.70	-18.897	-0.0109	-2.5 to 2.5	Pass
				40	3.70	-17.252	-0.0100	-2.5 to 2.5	Pass
				50	3.70	-18.353	-0.0106	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.15	15.750	0.0090	-2.5 to 2.5	Pass
					3.70	9.370	0.0053	-2.5 to 2.5	Pass
					4.26	8.326	0.0047	-2.5 to 2.5	Pass
				-30	3.70	20.213	0.0115	-2.5 to 2.5	Pass
				-20	3.70	9.999	0.0057	-2.5 to 2.5	Pass
				-10	3.70	10.986	0.0063	-2.5 to 2.5	Pass
				0	3.70	11.816	0.0067	-2.5 to 2.5	Pass
				10	3.70	15.764	0.0090	-2.5 to 2.5	Pass
				30	3.70	10.157	0.0058	-2.5 to 2.5	Pass
				40	3.70	19.298	0.0110	-2.5 to 2.5	Pass
				50	3.70	19.426	0.0111	-2.5 to 2.5	Pass
16QAM	1710.7	6	0	20	3.15	-17.481	-0.0102	-2.5 to 2.5	Pass
					3.70	-16.265	-0.0095	-2.5 to 2.5	Pass

					4.26	-9.227	-0.0054	-2.5 to 2.5	Pass
				-30	3.70	-18.153	-0.0106	-2.5 to 2.5	Pass
				-20	3.70	-18.768	-0.0110	-2.5 to 2.5	Pass
				-10	3.70	-7.210	-0.0042	-2.5 to 2.5	Pass
				0	3.70	-15.221	-0.0089	-2.5 to 2.5	Pass
				10	3.70	-7.496	-0.0044	-2.5 to 2.5	Pass
				30	3.70	-10.486	-0.0061	-2.5 to 2.5	Pass
				40	3.70	-24.862	-0.0145	-2.5 to 2.5	Pass
				50	3.70	-12.217	-0.0071	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.15	-10.657	-0.0062	-2.5 to 2.5	Pass
					3.70	17.252	0.0100	-2.5 to 2.5	Pass
					4.26	11.659	0.0067	-2.5 to 2.5	Pass
				-30	3.70	15.521	0.0090	-2.5 to 2.5	Pass
				-20	3.70	10.099	0.0058	-2.5 to 2.5	Pass
				-10	3.70	10.614	0.0061	-2.5 to 2.5	Pass
				0	3.70	16.036	0.0093	-2.5 to 2.5	Pass
				10	3.70	19.999	0.0115	-2.5 to 2.5	Pass
				30	3.70	8.383	0.0048	-2.5 to 2.5	Pass
				40	3.70	19.798	0.0114	-2.5 to 2.5	Pass
				50	3.70	11.988	0.0069	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.15	8.698	0.0050	-2.5 to 2.5	Pass
					3.70	15.550	0.0089	-2.5 to 2.5	Pass
					4.26	11.330	0.0065	-2.5 to 2.5	Pass
				-30	3.70	18.325	0.0104	-2.5 to 2.5	Pass
				-20	3.70	7.854	0.0045	-2.5 to 2.5	Pass
				-10	3.70	13.947	0.0080	-2.5 to 2.5	Pass
				0	3.70	5.722	0.0033	-2.5 to 2.5	Pass
				10	3.70	19.183	0.0109	-2.5 to 2.5	Pass
				30	3.70	7.095	0.0040	-2.5 to 2.5	Pass
				40	3.70	5.550	0.0032	-2.5 to 2.5	Pass
				50	3.70	15.793	0.0090	-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	3.15	-19.698	-0.0115	-2.5 to 2.5	Pass
					3.70	-17.095	-0.0100	-2.5 to 2.5	Pass
					4.26	-18.611	-0.0109	-2.5 to 2.5	Pass
				-30	3.70	-17.467	-0.0102	-2.5 to 2.5	Pass
				-20	3.70	-17.939	-0.0105	-2.5 to 2.5	Pass
				-10	3.70	-16.179	-0.0095	-2.5 to 2.5	Pass
				0	3.70	-17.495	-0.0102	-2.5 to 2.5	Pass
				10	3.70	-14.448	-0.0084	-2.5 to 2.5	Pass
				30	3.70	-12.102	-0.0071	-2.5 to 2.5	Pass
				40	3.70	-16.022	-0.0094	-2.5 to 2.5	Pass
				50	3.70	-12.188	-0.0071	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.15	-15.707	-0.0091	-2.5 to 2.5	Pass
					3.70	-16.479	-0.0095	-2.5 to 2.5	Pass
					4.26	-16.608	-0.0096	-2.5 to 2.5	Pass
				-30	3.70	-16.222	-0.0094	-2.5 to 2.5	Pass
				-20	3.70	-17.509	-0.0101	-2.5 to 2.5	Pass
				-10	3.70	-18.640	-0.0108	-2.5 to 2.5	Pass
				0	3.70	-17.738	-0.0102	-2.5 to 2.5	Pass
				10	3.70	-20.685	-0.0119	-2.5 to 2.5	Pass
				30	3.70	-13.018	-0.0075	-2.5 to 2.5	Pass
				40	3.70	-18.668	-0.0108	-2.5 to 2.5	Pass

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	1753.5	15	0	50	3.70	-12.789	-0.0074	-2.5 to 2.5	Pass
				20	3.15	11.630	0.0066	-2.5 to 2.5	Pass
					3.70	18.725	0.0107	-2.5 to 2.5	Pass
					4.26	15.922	0.0091	-2.5 to 2.5	Pass
				-30	3.70	9.112	0.0052	-2.5 to 2.5	Pass
				-20	3.70	21.014	0.0120	-2.5 to 2.5	Pass
				-10	3.70	18.969	0.0108	-2.5 to 2.5	Pass
				0	3.70	20.199	0.0115	-2.5 to 2.5	Pass
				10	3.70	21.615	0.0123	-2.5 to 2.5	Pass
				30	3.70	14.062	0.0080	-2.5 to 2.5	Pass
				40	3.70	15.349	0.0088	-2.5 to 2.5	Pass
				50	3.70	21.200	0.0121	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.15	-15.650	-0.0091	-2.5 to 2.5	Pass
					3.70	-15.693	-0.0092	-2.5 to 2.5	Pass
					4.26	-14.691	-0.0086	-2.5 to 2.5	Pass
				-30	3.70	-15.864	-0.0093	-2.5 to 2.5	Pass
				-20	3.70	-21.601	-0.0126	-2.5 to 2.5	Pass
				-10	3.70	-18.525	-0.0108	-2.5 to 2.5	Pass
				0	3.70	-19.512	-0.0114	-2.5 to 2.5	Pass
				10	3.70	-17.939	-0.0105	-2.5 to 2.5	Pass
				30	3.70	-15.478	-0.0090	-2.5 to 2.5	Pass
				40	3.70	-16.408	-0.0096	-2.5 to 2.5	Pass
				50	3.70	-15.707	-0.0092	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.15	-12.360	-0.0071	-2.5 to 2.5	Pass
					3.70	15.135	0.0087	-2.5 to 2.5	Pass
					4.26	9.685	0.0056	-2.5 to 2.5	Pass
				-30	3.70	13.361	0.0077	-2.5 to 2.5	Pass
				-20	3.70	16.980	0.0098	-2.5 to 2.5	Pass
				-10	3.70	2.975	0.0017	-2.5 to 2.5	Pass
				0	3.70	7.782	0.0045	-2.5 to 2.5	Pass
				10	3.70	6.180	0.0036	-2.5 to 2.5	Pass
				30	3.70	6.380	0.0037	-2.5 to 2.5	Pass
				40	3.70	7.796	0.0045	-2.5 to 2.5	Pass
				50	3.70	2.904	0.0017	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.15	16.880	0.0096	-2.5 to 2.5	Pass
					3.70	16.823	0.0096	-2.5 to 2.5	Pass
					4.26	11.587	0.0066	-2.5 to 2.5	Pass
				-30	3.70	16.794	0.0096	-2.5 to 2.5	Pass
				-20	3.70	7.968	0.0045	-2.5 to 2.5	Pass
				-10	3.70	23.417	0.0134	-2.5 to 2.5	Pass
				0	3.70	9.470	0.0054	-2.5 to 2.5	Pass
				10	3.70	9.856	0.0056	-2.5 to 2.5	Pass
				30	3.70	17.753	0.0101	-2.5 to 2.5	Pass
				40	3.70	10.343	0.0059	-2.5 to 2.5	Pass
				50	3.70	18.625	0.0106	-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	3.15	-19.755	-0.0115	-2.5 to 2.5	Pass
					3.70	-16.880	-0.0099	-2.5 to 2.5	Pass
					4.26	-16.479	-0.0096	-2.5 to 2.5	Pass
				-30	3.70	-14.076	-0.0082	-2.5 to 2.5	Pass
				-20	3.70	-16.222	-0.0095	-2.5 to 2.5	Pass
				-10	3.70	-15.936	-0.0093	-2.5 to 2.5	Pass
				0	3.70	-10.486	-0.0061	-2.5 to 2.5	Pass

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				10	3.70	-16.894	-0.0099	-2.5 to 2.5	Pass
				30	3.70	-8.955	-0.0052	-2.5 to 2.5	Pass
				40	3.70	-20.385	-0.0119	-2.5 to 2.5	Pass
				50	3.70	-13.976	-0.0082	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.15	-16.637	-0.0096	-2.5 to 2.5	Pass
					3.70	-15.793	-0.0091	-2.5 to 2.5	Pass
					4.26	-17.781	-0.0103	-2.5 to 2.5	Pass
				-30	3.70	-15.321	-0.0088	-2.5 to 2.5	Pass
				-20	3.70	-15.435	-0.0089	-2.5 to 2.5	Pass
				-10	3.70	-17.023	-0.0098	-2.5 to 2.5	Pass
				0	3.70	-20.871	-0.0120	-2.5 to 2.5	Pass
				10	3.70	-14.234	-0.0082	-2.5 to 2.5	Pass
				30	3.70	-20.556	-0.0119	-2.5 to 2.5	Pass
				40	3.70	-16.809	-0.0097	-2.5 to 2.5	Pass
				50	3.70	-22.430	-0.0129	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.15	2.947	0.0017	-2.5 to 2.5	Pass
					3.70	-10.872	-0.0062	-2.5 to 2.5	Pass
					4.26	-18.425	-0.0105	-2.5 to 2.5	Pass
				-30	3.70	-11.888	-0.0068	-2.5 to 2.5	Pass
				-20	3.70	-21.443	-0.0122	-2.5 to 2.5	Pass
				-10	3.70	-8.011	-0.0046	-2.5 to 2.5	Pass
				0	3.70	-13.032	-0.0074	-2.5 to 2.5	Pass
				10	3.70	-20.127	-0.0115	-2.5 to 2.5	Pass
				30	3.70	-16.451	-0.0094	-2.5 to 2.5	Pass
				40	3.70	-13.103	-0.0075	-2.5 to 2.5	Pass
				50	3.70	-21.415	-0.0122	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.15	-11.444	-0.0067	-2.5 to 2.5	Pass
					3.70	13.332	0.0078	-2.5 to 2.5	Pass
					4.26	8.154	0.0048	-2.5 to 2.5	Pass
				-30	3.70	8.640	0.0050	-2.5 to 2.5	Pass
				-20	3.70	17.281	0.0101	-2.5 to 2.5	Pass
				-10	3.70	4.649	0.0027	-2.5 to 2.5	Pass
				0	3.70	9.713	0.0057	-2.5 to 2.5	Pass
				10	3.70	12.374	0.0072	-2.5 to 2.5	Pass
				30	3.70	17.295	0.0101	-2.5 to 2.5	Pass
				40	3.70	4.292	0.0025	-2.5 to 2.5	Pass
				50	3.70	4.520	0.0026	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.15	-0.315	-0.0002	-2.5 to 2.5	Pass
					3.70	16.994	0.0098	-2.5 to 2.5	Pass
					4.26	21.043	0.0121	-2.5 to 2.5	Pass
				-30	3.70	-21.329	-0.0123	-2.5 to 2.5	Pass
				-20	3.70	-16.537	-0.0095	-2.5 to 2.5	Pass
				-10	3.70	-17.323	-0.0100	-2.5 to 2.5	Pass
				0	3.70	-16.079	-0.0093	-2.5 to 2.5	Pass
				10	3.70	-17.495	-0.0101	-2.5 to 2.5	Pass
				30	3.70	-15.793	-0.0091	-2.5 to 2.5	Pass
				40	3.70	-15.821	-0.0091	-2.5 to 2.5	Pass
				50	3.70	-18.539	-0.0107	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.15	-7.610	-0.0043	-2.5 to 2.5	Pass
					3.70	13.561	0.0077	-2.5 to 2.5	Pass
					4.26	21.186	0.0121	-2.5 to 2.5	Pass
				-30	3.70	11.001	0.0063	-2.5 to 2.5	Pass
				-20	3.70	20.914	0.0119	-2.5 to 2.5	Pass
				-10	3.70	19.069	0.0109	-2.5 to 2.5	Pass
				0	3.70	15.135	0.0086	-2.5 to 2.5	Pass
				10	3.70	22.144	0.0126	-2.5 to 2.5	Pass
				30	3.70	22.430	0.0128	-2.5 to 2.5	Pass
				40	3.70	17.581	0.0100	-2.5 to 2.5	Pass
				50	3.70	9.942	0.0057	-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	3.15	-19.155	-0.0112	-2.5 to 2.5	Pass
					3.70	-15.392	-0.0090	-2.5 to 2.5	Pass
					4.26	-17.223	-0.0100	-2.5 to 2.5	Pass
				-30	3.70	-16.923	-0.0099	-2.5 to 2.5	Pass
				-20	3.70	-16.379	-0.0096	-2.5 to 2.5	Pass
				-10	3.70	-17.138	-0.0100	-2.5 to 2.5	Pass
				0	3.70	-12.417	-0.0072	-2.5 to 2.5	Pass
				10	3.70	-14.520	-0.0085	-2.5 to 2.5	Pass
				30	3.70	-15.321	-0.0089	-2.5 to 2.5	Pass
				40	3.70	-10.929	-0.0064	-2.5 to 2.5	Pass
				50	3.70	-17.910	-0.0104	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.15	-17.266	-0.0100	-2.5 to 2.5	Pass
					3.70	-15.349	-0.0089	-2.5 to 2.5	Pass
					4.26	-13.905	-0.0080	-2.5 to 2.5	Pass
				-30	3.70	-16.637	-0.0096	-2.5 to 2.5	Pass
				-20	3.70	-16.980	-0.0098	-2.5 to 2.5	Pass
				-10	3.70	-12.288	-0.0071	-2.5 to 2.5	Pass
				0	3.70	-18.125	-0.0105	-2.5 to 2.5	Pass
				10	3.70	-11.301	-0.0065	-2.5 to 2.5	Pass
				30	3.70	-16.322	-0.0094	-2.5 to 2.5	Pass
				40	3.70	-20.027	-0.0116	-2.5 to 2.5	Pass
				50	3.70	-18.625	-0.0108	-2.5 to 2.5	Pass
	1750	50	0	20	3.15	-14.048	-0.0080	-2.5 to 2.5	Pass
					3.70	-6.652	-0.0038	-2.5 to 2.5	Pass
					4.26	11.072	0.0063	-2.5 to 2.5	Pass
				-30	3.70	9.298	0.0053	-2.5 to 2.5	Pass
				-20	3.70	-17.509	-0.0100	-2.5 to 2.5	Pass
				-10	3.70	-15.464	-0.0088	-2.5 to 2.5	Pass
				0	3.70	-15.836	-0.0090	-2.5 to 2.5	Pass
				10	3.70	-16.737	-0.0096	-2.5 to 2.5	Pass
				30	3.70	-15.550	-0.0089	-2.5 to 2.5	Pass
				40	3.70	-15.607	-0.0089	-2.5 to 2.5	Pass
				50	3.70	-16.694	-0.0095	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.15	1.116	0.0007	-2.5 to 2.5	Pass
					3.70	2.589	0.0015	-2.5 to 2.5	Pass
					4.26	-3.262	-0.0019	-2.5 to 2.5	Pass
				-30	3.70	4.220	0.0025	-2.5 to 2.5	Pass
				-20	3.70	1.245	0.0007	-2.5 to 2.5	Pass
				-10	3.70	2.847	0.0017	-2.5 to 2.5	Pass
				0	3.70	6.437	0.0038	-2.5 to 2.5	Pass
				10	3.70	-5.708	-0.0033	-2.5 to 2.5	Pass
				30	3.70	3.605	0.0021	-2.5 to 2.5	Pass
				40	3.70	-2.031	-0.0012	-2.5 to 2.5	Pass
				50	3.70	-1.473	-0.0009	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.15	13.075	0.0075	-2.5 to 2.5	Pass
					3.70	6.666	0.0038	-2.5 to 2.5	Pass
					4.26	2.689	0.0016	-2.5 to 2.5	Pass
				-30	3.70	2.847	0.0016	-2.5 to 2.5	Pass
				-20	3.70	8.540	0.0049	-2.5 to 2.5	Pass
				-10	3.70	4.649	0.0027	-2.5 to 2.5	Pass
				0	3.70	7.825	0.0045	-2.5 to 2.5	Pass
				10	3.70	-0.243	-0.0001	-2.5 to 2.5	Pass

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	1750	50	0	30	3.70	0.901	0.0005	-2.5 to 2.5	Pass
				40	3.70	3.376	0.0019	-2.5 to 2.5	Pass
				50	3.70	-1.388	-0.0008	-2.5 to 2.5	Pass
				20	3.15	-7.753	-0.0044	-2.5 to 2.5	Pass
					3.70	-3.219	-0.0018	-2.5 to 2.5	Pass
					4.26	-7.639	-0.0044	-2.5 to 2.5	Pass
				-30	3.70	-2.832	-0.0016	-2.5 to 2.5	Pass
				-20	3.70	-13.289	-0.0076	-2.5 to 2.5	Pass
				-10	3.70	-6.652	-0.0038	-2.5 to 2.5	Pass
				0	3.70	2.575	0.0015	-2.5 to 2.5	Pass
				10	3.70	-4.249	-0.0024	-2.5 to 2.5	Pass
				30	3.70	2.933	0.0017	-2.5 to 2.5	Pass
				40	3.70	-3.190	-0.0018	-2.5 to 2.5	Pass
				50	3.70	-8.426	-0.0048	-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	3.15	-16.665	-0.0097	-2.5 to 2.5	Pass
					3.70	-17.052	-0.0099	-2.5 to 2.5	Pass
					4.26	-16.565	-0.0096	-2.5 to 2.5	Pass
				-30	3.70	-15.993	-0.0093	-2.5 to 2.5	Pass
				-20	3.70	-15.836	-0.0092	-2.5 to 2.5	Pass
				-10	3.70	-16.522	-0.0096	-2.5 to 2.5	Pass
				0	3.70	-15.621	-0.0091	-2.5 to 2.5	Pass
				10	3.70	-13.533	-0.0079	-2.5 to 2.5	Pass
				30	3.70	-15.678	-0.0091	-2.5 to 2.5	Pass
				40	3.70	-15.764	-0.0092	-2.5 to 2.5	Pass
				50	3.70	-13.504	-0.0079	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.15	-16.522	-0.0095	-2.5 to 2.5	Pass
					3.70	-15.965	-0.0092	-2.5 to 2.5	Pass
					4.26	-17.424	-0.0101	-2.5 to 2.5	Pass
				-30	3.70	-13.404	-0.0077	-2.5 to 2.5	Pass
				-20	3.70	-14.548	-0.0084	-2.5 to 2.5	Pass
				-10	3.70	-16.580	-0.0096	-2.5 to 2.5	Pass
				0	3.70	-18.182	-0.0105	-2.5 to 2.5	Pass
				10	3.70	-15.979	-0.0092	-2.5 to 2.5	Pass
				30	3.70	-15.922	-0.0092	-2.5 to 2.5	Pass
				40	3.70	-12.317	-0.0071	-2.5 to 2.5	Pass
				50	3.70	-13.862	-0.0080	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.15	-19.455	-0.0111	-2.5 to 2.5	Pass
					3.70	-16.279	-0.0093	-2.5 to 2.5	Pass
					4.26	-17.223	-0.0099	-2.5 to 2.5	Pass
				-30	3.70	-17.996	-0.0103	-2.5 to 2.5	Pass
				-20	3.70	-17.023	-0.0097	-2.5 to 2.5	Pass
				-10	3.70	-16.079	-0.0092	-2.5 to 2.5	Pass
				0	3.70	-16.251	-0.0093	-2.5 to 2.5	Pass
				10	3.70	-17.295	-0.0099	-2.5 to 2.5	Pass
				30	3.70	-17.838	-0.0102	-2.5 to 2.5	Pass
				40	3.70	-16.851	-0.0096	-2.5 to 2.5	Pass
				50	3.70	-15.221	-0.0087	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.15	8.683	0.0051	-2.5 to 2.5	Pass
					3.70	8.025	0.0047	-2.5 to 2.5	Pass
					4.26	6.852	0.0040	-2.5 to 2.5	Pass
				-30	3.70	4.263	0.0025	-2.5 to 2.5	Pass
				-20	3.70	2.904	0.0017	-2.5 to 2.5	Pass

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				-10	3.70	8.569	0.0050	-2.5 to 2.5	Pass
				0	3.70	8.826	0.0051	-2.5 to 2.5	Pass
				10	3.70	7.110	0.0041	-2.5 to 2.5	Pass
				30	3.70	7.982	0.0046	-2.5 to 2.5	Pass
				40	3.70	9.756	0.0057	-2.5 to 2.5	Pass
				50	3.70	0.787	0.0005	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.15	8.411	0.0049	-2.5 to 2.5	Pass
					3.70	-1.087	-0.0006	-2.5 to 2.5	Pass
					4.26	5.236	0.0030	-2.5 to 2.5	Pass
				-30	3.70	10.543	0.0061	-2.5 to 2.5	Pass
				-20	3.70	5.994	0.0035	-2.5 to 2.5	Pass
				-10	3.70	1.044	0.0006	-2.5 to 2.5	Pass
				0	3.70	2.189	0.0013	-2.5 to 2.5	Pass
				10	3.70	4.306	0.0025	-2.5 to 2.5	Pass
				30	3.70	4.635	0.0027	-2.5 to 2.5	Pass
				40	3.70	7.138	0.0041	-2.5 to 2.5	Pass
				50	3.70	8.097	0.0047	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.15	-1.101	-0.0006	-2.5 to 2.5	Pass
					3.70	10.343	0.0059	-2.5 to 2.5	Pass
					4.26	1.917	0.0011	-2.5 to 2.5	Pass
				-30	3.70	9.627	0.0055	-2.5 to 2.5	Pass
				-20	3.70	1.245	0.0007	-2.5 to 2.5	Pass
				-10	3.70	10.743	0.0061	-2.5 to 2.5	Pass
				0	3.70	5.064	0.0029	-2.5 to 2.5	Pass
				10	3.70	-1.330	-0.0008	-2.5 to 2.5	Pass
				30	3.70	10.157	0.0058	-2.5 to 2.5	Pass
				40	3.70	4.864	0.0028	-2.5 to 2.5	Pass
				50	3.70	-1.187	-0.0007	-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	3.15	-20.700	-0.0120	-2.5 to 2.5	Pass
					3.70	-18.368	-0.0107	-2.5 to 2.5	Pass
					4.26	-15.435	-0.0090	-2.5 to 2.5	Pass
				-30	3.70	-15.979	-0.0093	-2.5 to 2.5	Pass
				-20	3.70	-17.352	-0.0101	-2.5 to 2.5	Pass
				-10	3.70	-17.281	-0.0100	-2.5 to 2.5	Pass
				0	3.70	-15.478	-0.0090	-2.5 to 2.5	Pass
				10	3.70	-17.939	-0.0104	-2.5 to 2.5	Pass
				30	3.70	-16.794	-0.0098	-2.5 to 2.5	Pass
				40	3.70	-16.479	-0.0096	-2.5 to 2.5	Pass
				50	3.70	-17.853	-0.0104	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.15	-16.294	-0.0094	-2.5 to 2.5	Pass
					3.70	-22.416	-0.0129	-2.5 to 2.5	Pass
					4.26	-15.607	-0.0090	-2.5 to 2.5	Pass
				-30	3.70	-16.050	-0.0093	-2.5 to 2.5	Pass
				-20	3.70	-15.550	-0.0090	-2.5 to 2.5	Pass
				-10	3.70	-16.551	-0.0096	-2.5 to 2.5	Pass
				0	3.70	-13.161	-0.0076	-2.5 to 2.5	Pass
				10	3.70	-15.149	-0.0087	-2.5 to 2.5	Pass
				30	3.70	-15.135	-0.0087	-2.5 to 2.5	Pass
				40	3.70	-16.136	-0.0093	-2.5 to 2.5	Pass
				50	3.70	-16.308	-0.0094	-2.5 to 2.5	Pass
	1745	100	0	20	3.15	-17.381	-0.0100	-2.5 to 2.5	Pass
					3.70	-16.966	-0.0097	-2.5 to 2.5	Pass

					4.26	-18.625	-0.0107	-2.5 to 2.5	Pass
				-30	3.70	-14.977	-0.0086	-2.5 to 2.5	Pass
				-20	3.70	-17.624	-0.0101	-2.5 to 2.5	Pass
				-10	3.70	-18.582	-0.0106	-2.5 to 2.5	Pass
				0	3.70	-15.135	-0.0087	-2.5 to 2.5	Pass
				10	3.70	-14.791	-0.0085	-2.5 to 2.5	Pass
				30	3.70	-16.894	-0.0097	-2.5 to 2.5	Pass
				40	3.70	-16.937	-0.0097	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.15	-10.958	-0.0064	-2.5 to 2.5	Pass
					3.70	-9.971	-0.0058	-2.5 to 2.5	Pass
					4.26	-4.106	-0.0024	-2.5 to 2.5	Pass
				-30	3.70	-1.202	-0.0007	-2.5 to 2.5	Pass
				-20	3.70	-7.095	-0.0041	-2.5 to 2.5	Pass
				-10	3.70	-11.158	-0.0065	-2.5 to 2.5	Pass
				0	3.70	-8.283	-0.0048	-2.5 to 2.5	Pass
				10	3.70	-2.933	-0.0017	-2.5 to 2.5	Pass
				30	3.70	-7.038	-0.0041	-2.5 to 2.5	Pass
				40	3.70	-8.183	-0.0048	-2.5 to 2.5	Pass
				50	3.70	-0.172	-0.0001	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.15	6.337	0.0037	-2.5 to 2.5	Pass
					3.70	11.172	0.0064	-2.5 to 2.5	Pass
					4.26	4.621	0.0027	-2.5 to 2.5	Pass
				-30	3.70	-1.745	-0.0010	-2.5 to 2.5	Pass
				-20	3.70	-0.472	-0.0003	-2.5 to 2.5	Pass
				-10	3.70	-0.758	-0.0004	-2.5 to 2.5	Pass
				0	3.70	-0.787	-0.0005	-2.5 to 2.5	Pass
				10	3.70	-1.287	-0.0007	-2.5 to 2.5	Pass
				30	3.70	-1.717	-0.0010	-2.5 to 2.5	Pass
				40	3.70	-1.402	-0.0008	-2.5 to 2.5	Pass
				50	3.70	-0.200	-0.0001	-2.5 to 2.5	Pass
	1745	100	0	20	3.15	6.151	0.0035	-2.5 to 2.5	Pass
					3.70	4.334	0.0025	-2.5 to 2.5	Pass
					4.26	-3.476	-0.0020	-2.5 to 2.5	Pass
				-30	3.70	-7.668	-0.0044	-2.5 to 2.5	Pass
				-20	3.70	1.903	0.0011	-2.5 to 2.5	Pass
				-10	3.70	-1.888	-0.0011	-2.5 to 2.5	Pass
				0	3.70	-4.549	-0.0026	-2.5 to 2.5	Pass
				10	3.70	6.080	0.0035	-2.5 to 2.5	Pass
				30	3.70	4.406	0.0025	-2.5 to 2.5	Pass
				40	3.70	0.372	0.0002	-2.5 to 2.5	Pass
				50	3.70	-3.018	-0.0017	-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 / NTV						
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 / NTV						
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

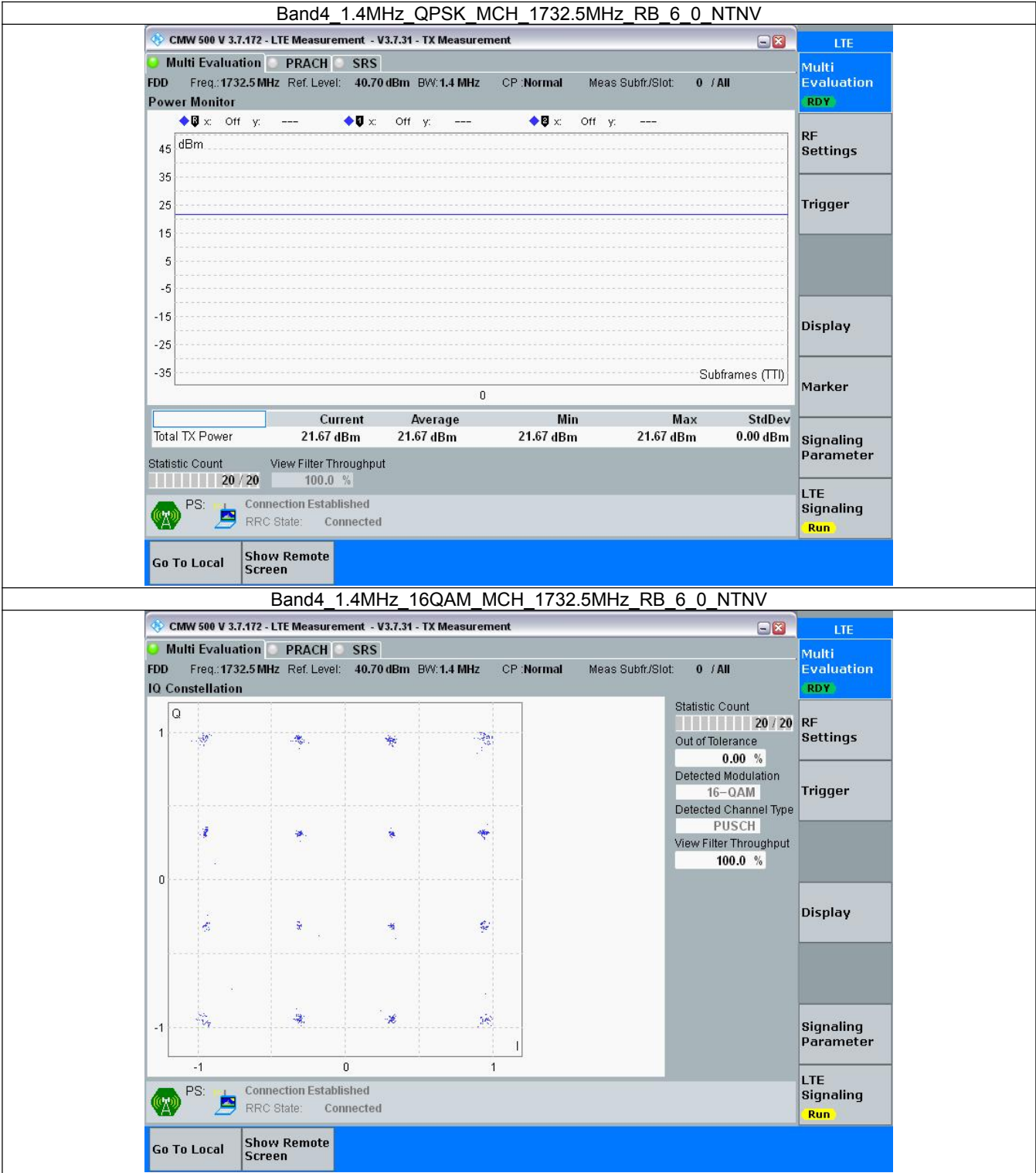
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

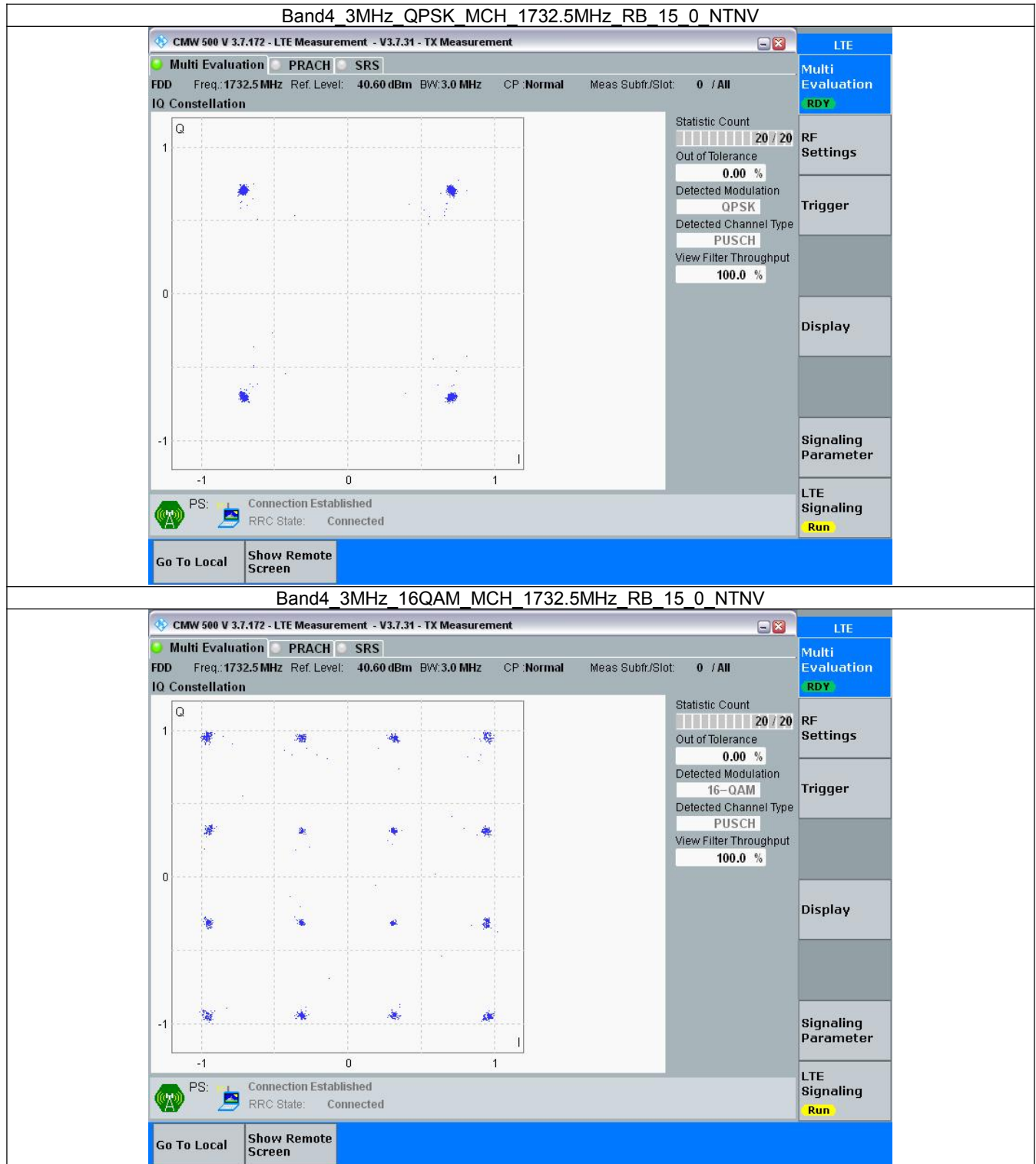
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

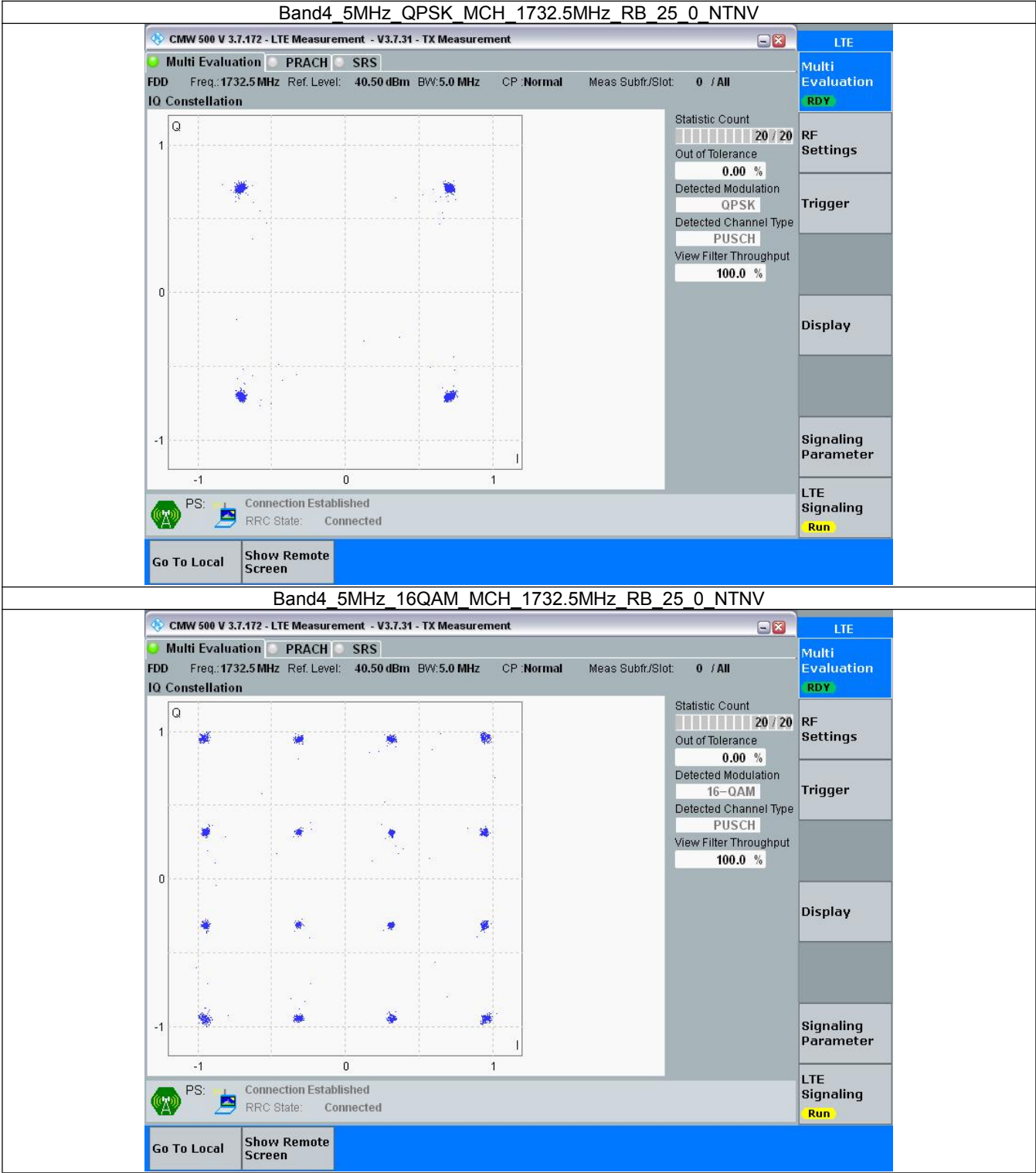
3.2.1 B4_1.4MHz



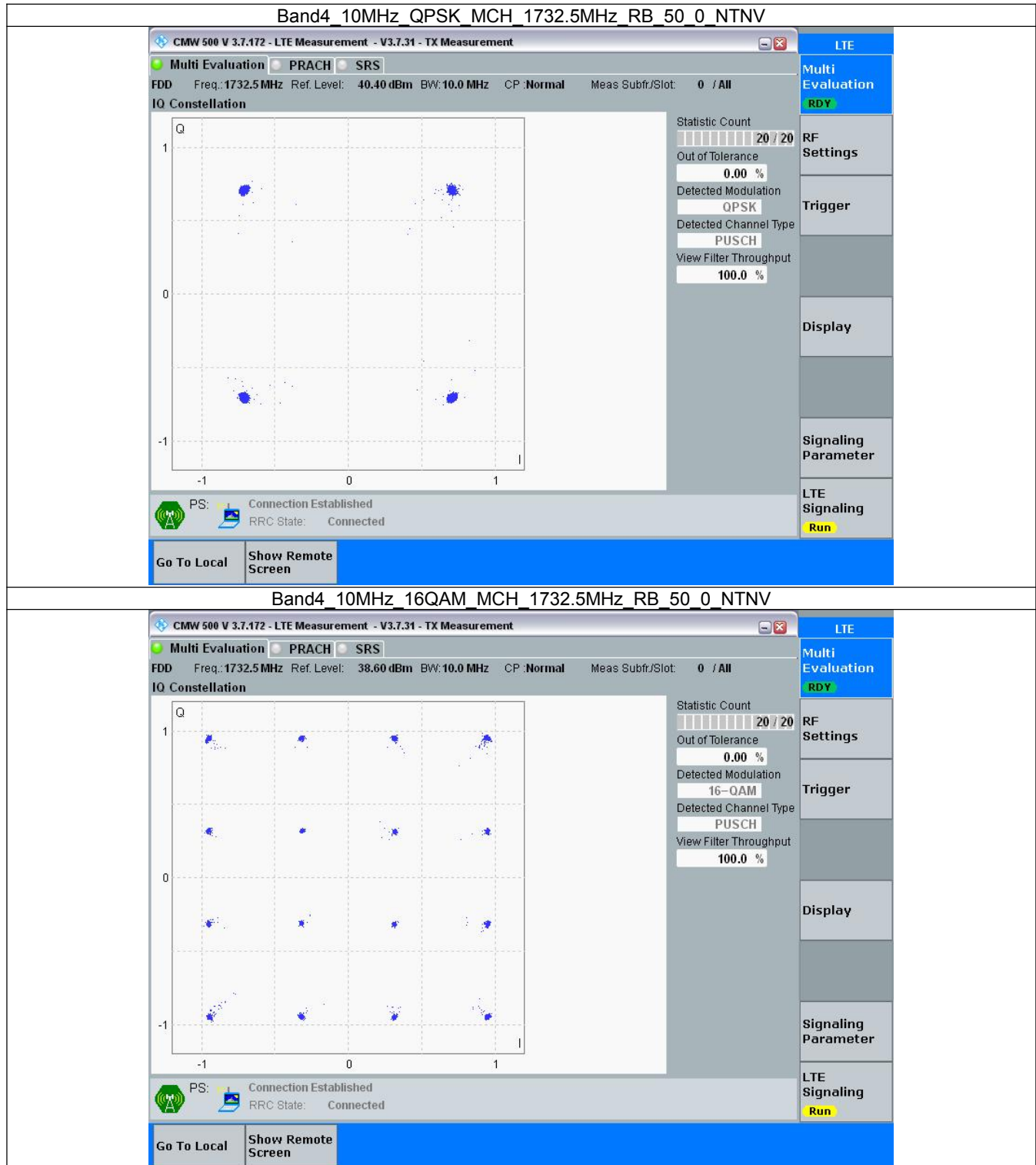
3.2.2 B4_3MHz



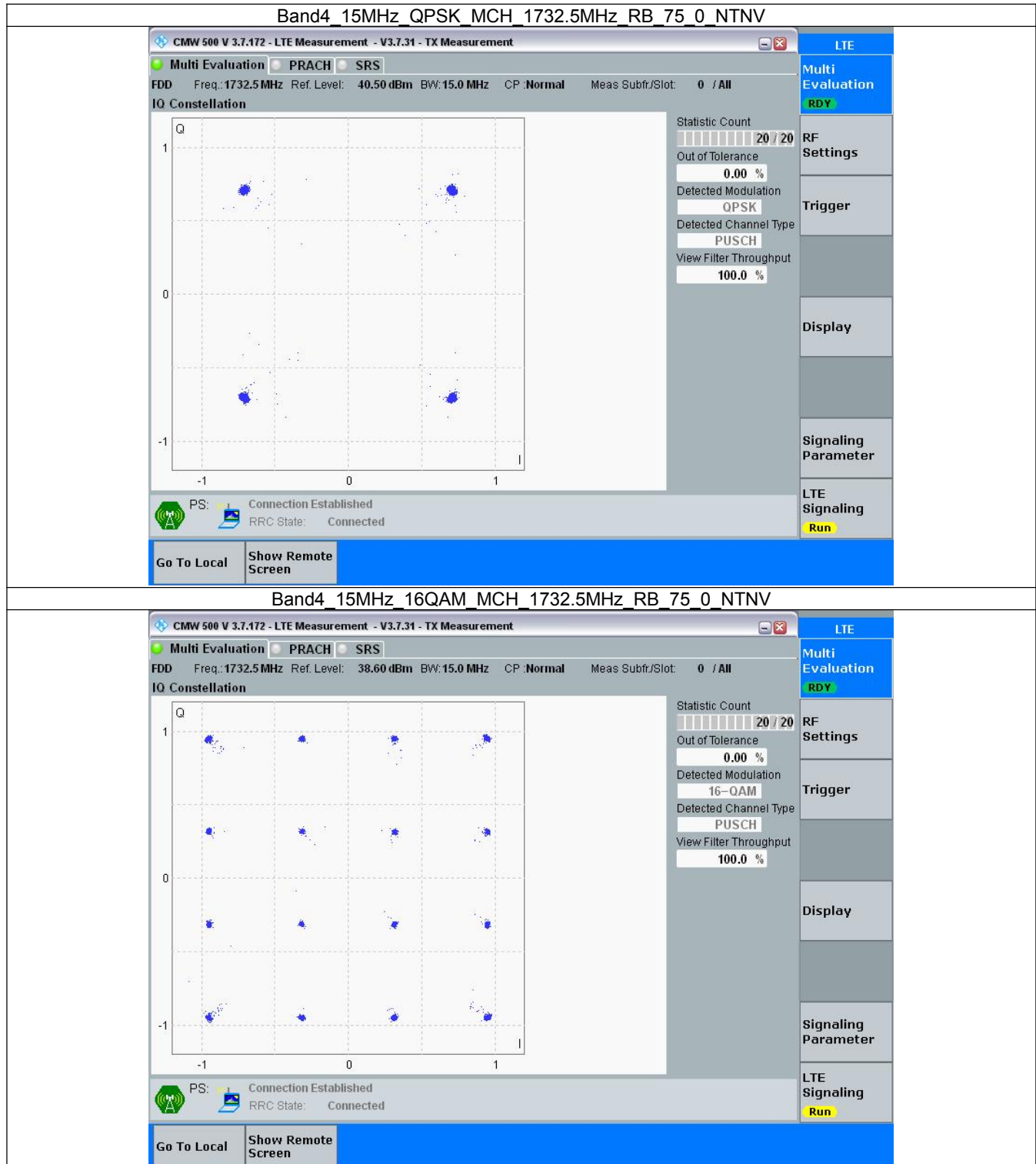
3.2.3 B4_5MHz



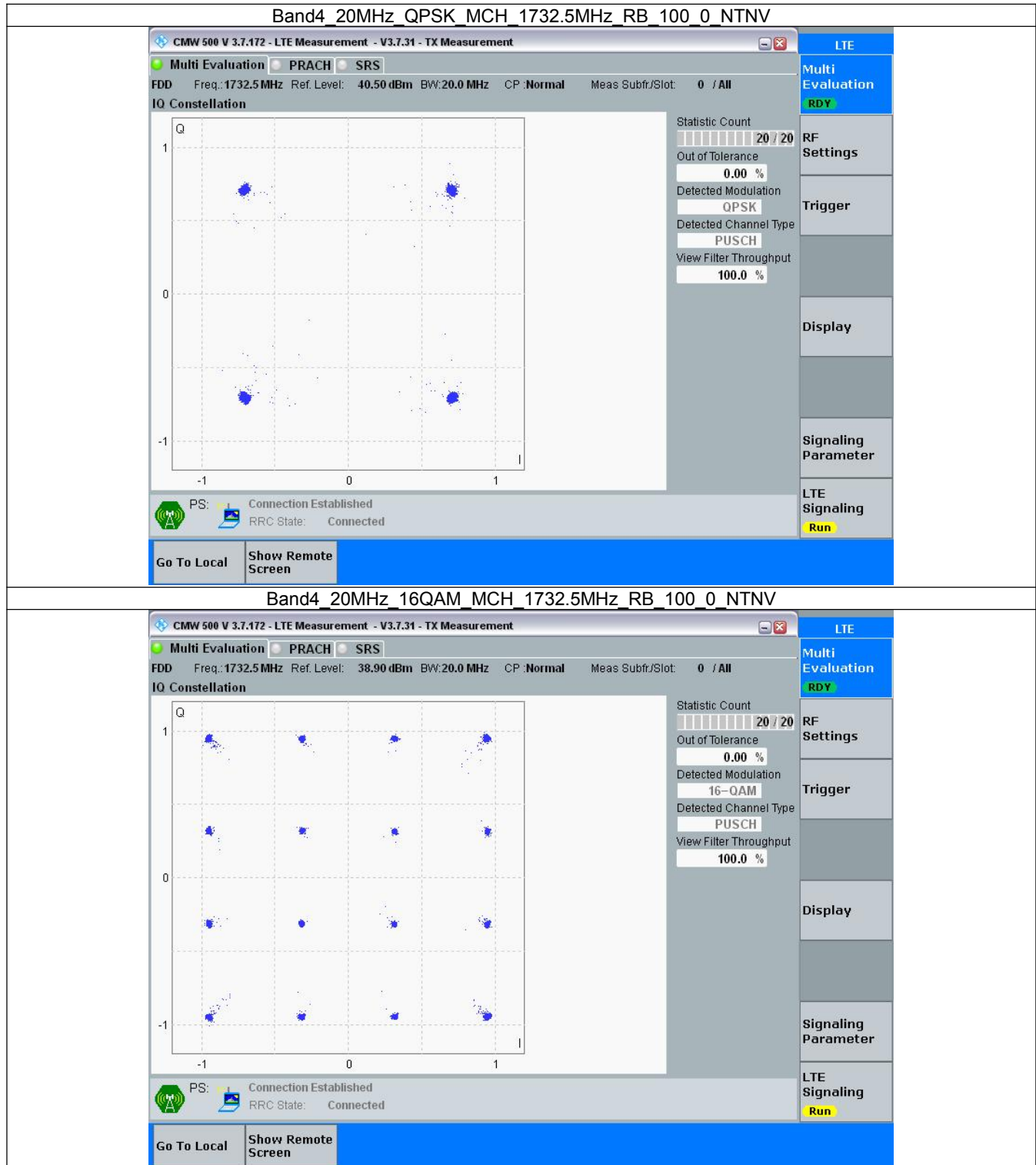
3.2.4 B4_10MHz



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 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.102	/	Pass
		1732.5	6	0	1.107	/	Pass
		1754.3	6	0	1.106	/	Pass
	16QAM	1710.7	6	0	1.098	/	Pass
		1732.5	6	0	1.103	/	Pass
		1754.3	6	0	1.102	/	Pass
3	QPSK	1711.5	15	0	2.744	/	Pass
		1732.5	15	0	2.746	/	Pass
		1753.5	15	0	2.750	/	Pass
	16QAM	1711.5	15	0	2.763	/	Pass
		1732.5	15	0	2.726	/	Pass
		1753.5	15	0	2.735	/	Pass
5	QPSK	1712.5	25	0	4.566	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.552	/	Pass
	16QAM	1712.5	25	0	4.535	/	Pass
		1732.5	25	0	4.565	/	Pass
		1752.5	25	0	4.558	/	Pass
10	QPSK	1715	50	0	9.065	/	Pass
		1732.5	50	0	9.027	/	Pass
		1750	50	0	9.034	/	Pass
	16QAM	1715	50	0	9.066	/	Pass
		1732.5	50	0	9.048	/	Pass
		1750	50	0	9.063	/	Pass
15	QPSK	1717.5	75	0	13.586	/	Pass
		1732.5	75	0	13.532	/	Pass
		1747.5	75	0	13.561	/	Pass
	16QAM	1717.5	75	0	13.573	/	Pass
		1732.5	75	0	13.586	/	Pass
		1747.5	75	0	13.583	/	Pass
20	QPSK	1720	100	0	18.057	/	Pass
		1732.5	100	0	18.041	/	Pass
		1745	100	0	18.081	/	Pass
	16QAM	1720	100	0	18.177	/	Pass
		1732.5	100	0	18.049	/	Pass
		1745	100	0	18.059	/	Pass

4.1.2 Band4_XDB

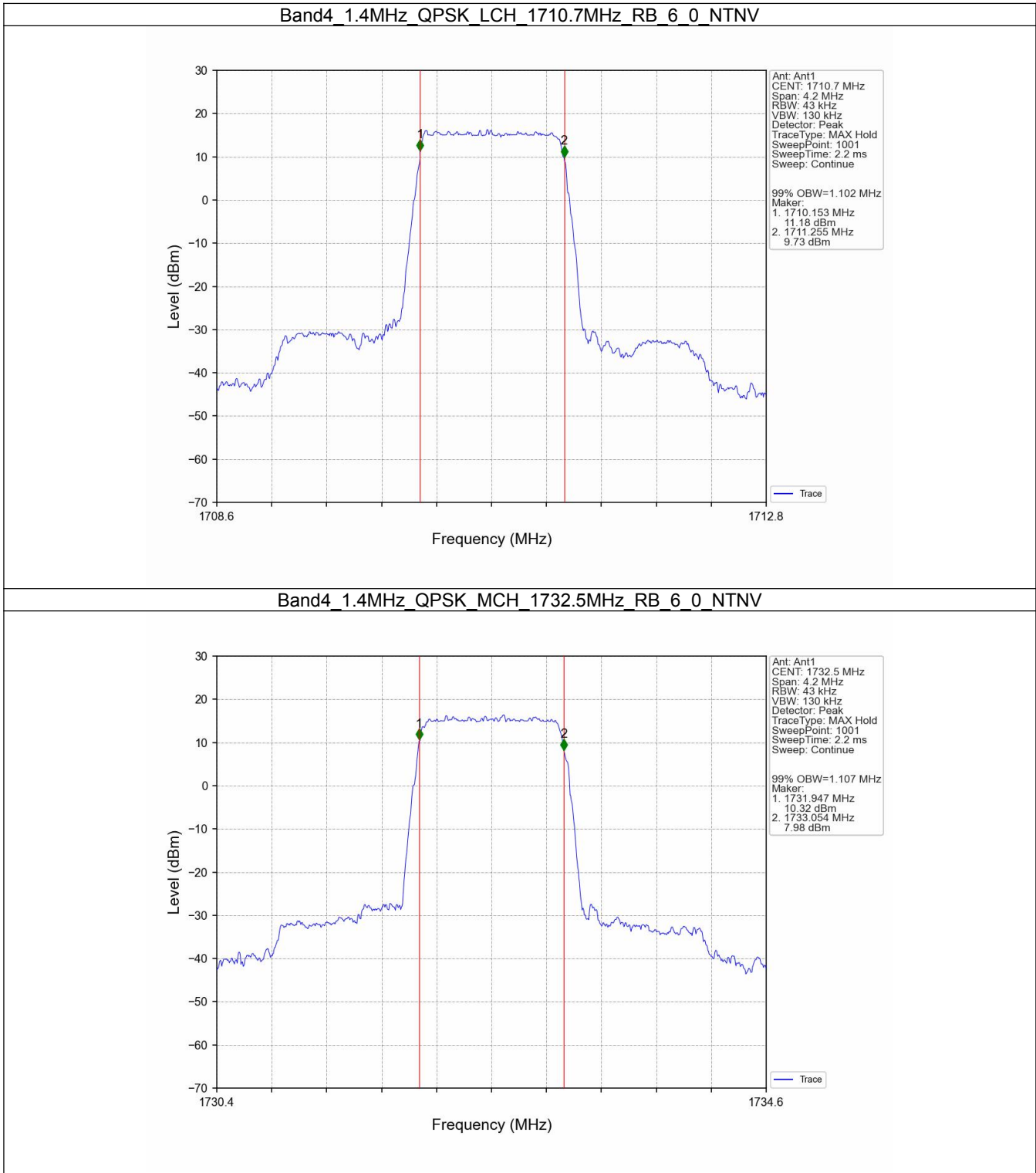
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.259	/	Pass
		1732.5	6	0	1.266	/	Pass
		1754.3	6	0	1.256	/	Pass

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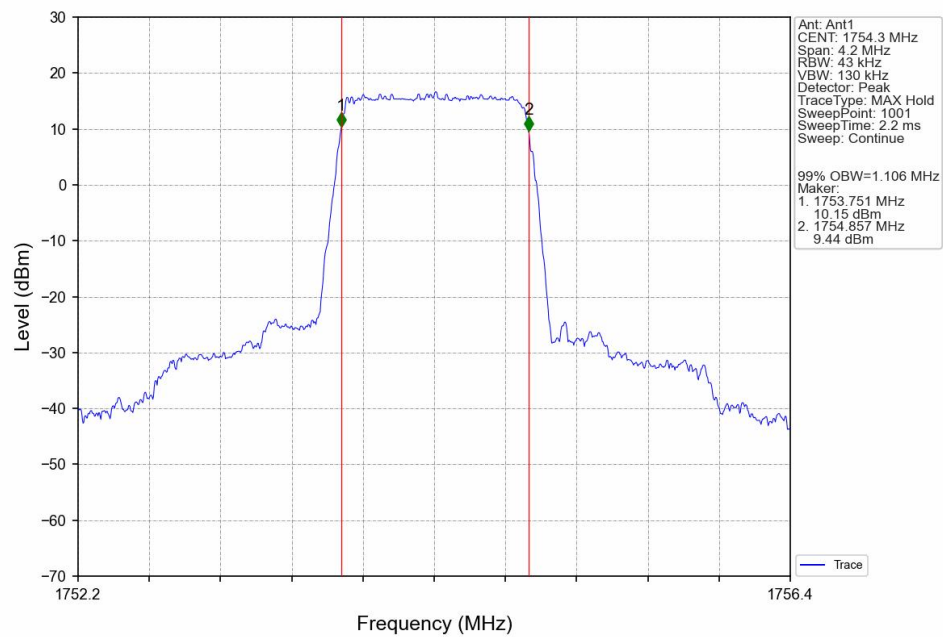
	16QAM	1710.7	6	0	1.252	/	Pass
		1732.5	6	0	1.265	/	Pass
		1754.3	6	0	1.260	/	Pass
3	QPSK	1711.5	15	0	3.067	/	Pass
		1732.5	15	0	3.064	/	Pass
		1753.5	15	0	3.086	/	Pass
	16QAM	1711.5	15	0	3.041	/	Pass
		1732.5	15	0	3.070	/	Pass
		1753.5	15	0	3.070	/	Pass
5	QPSK	1712.5	25	0	5.054	/	Pass
		1732.5	25	0	5.038	/	Pass
		1752.5	25	0	5.074	/	Pass
	16QAM	1712.5	25	0	5.046	/	Pass
		1732.5	25	0	5.049	/	Pass
		1752.5	25	0	5.046	/	Pass
10	QPSK	1715	50	0	9.979	/	Pass
		1732.5	50	0	9.952	/	Pass
		1750	50	0	10.045	/	Pass
	16QAM	1715	50	0	9.958	/	Pass
		1732.5	50	0	9.975	/	Pass
		1750	50	0	9.933	/	Pass
15	QPSK	1717.5	75	0	14.988	/	Pass
		1732.5	75	0	14.872	/	Pass
		1747.5	75	0	14.921	/	Pass
	16QAM	1717.5	75	0	14.973	/	Pass
		1732.5	75	0	14.933	/	Pass
		1747.5	75	0	14.986	/	Pass
20	QPSK	1720	100	0	19.745	/	Pass
		1732.5	100	0	19.868	/	Pass
		1745	100	0	19.861	/	Pass
	16QAM	1720	100	0	19.808	/	Pass
		1732.5	100	0	19.869	/	Pass
		1745	100	0	19.808	/	Pass

4.2 Test Graph

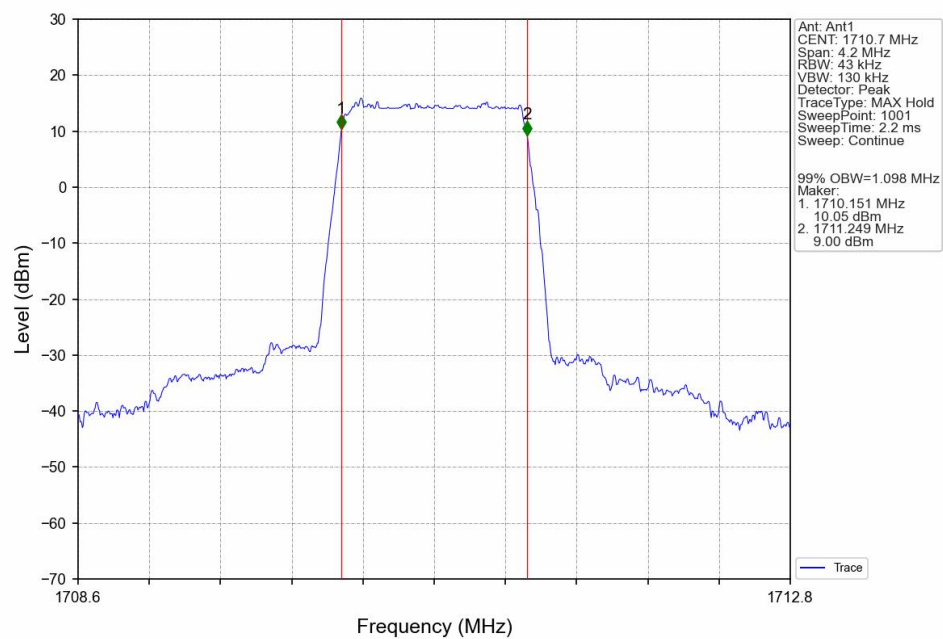
4.2.1 Band4_OBW



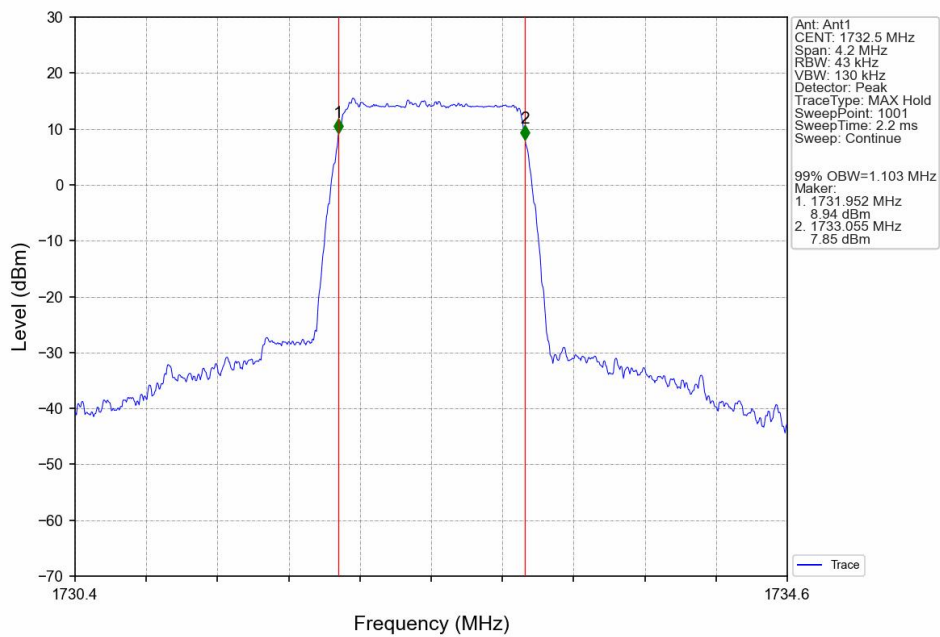
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



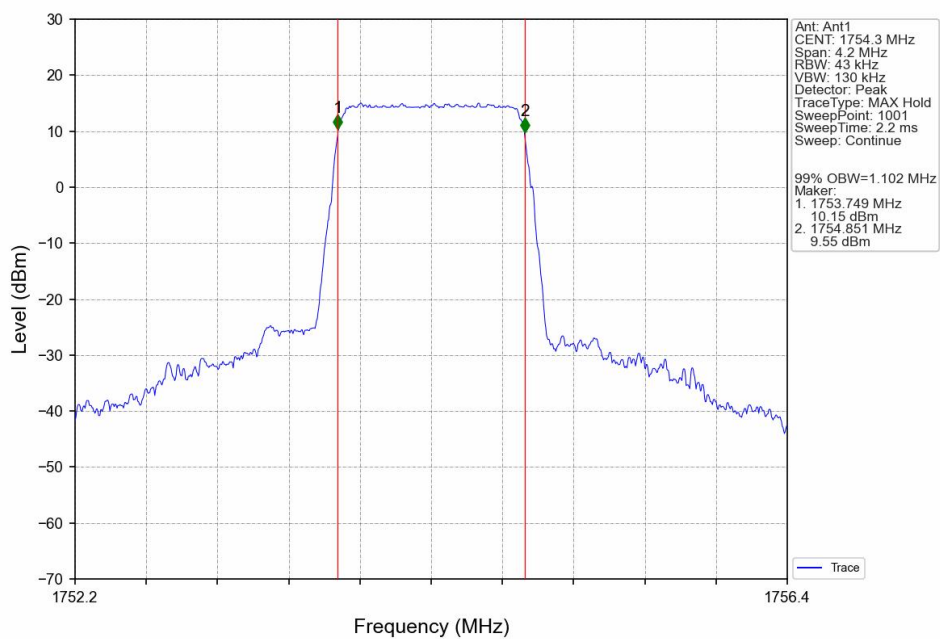
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



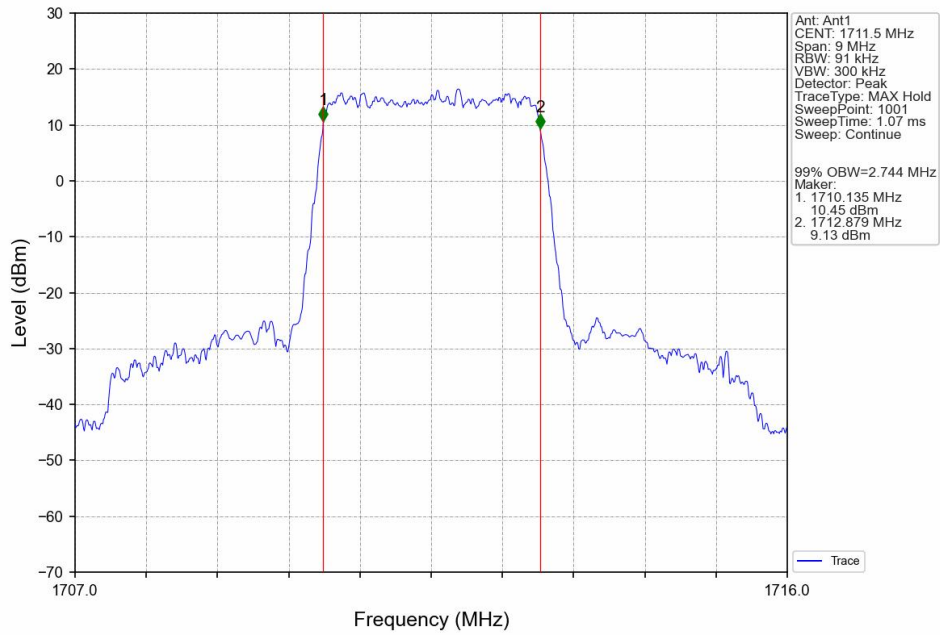
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



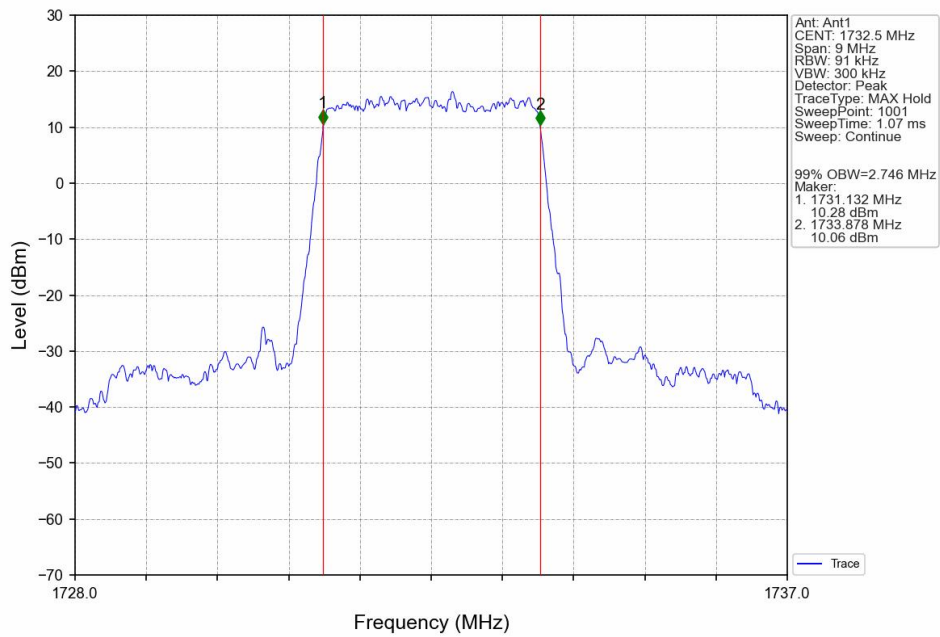
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



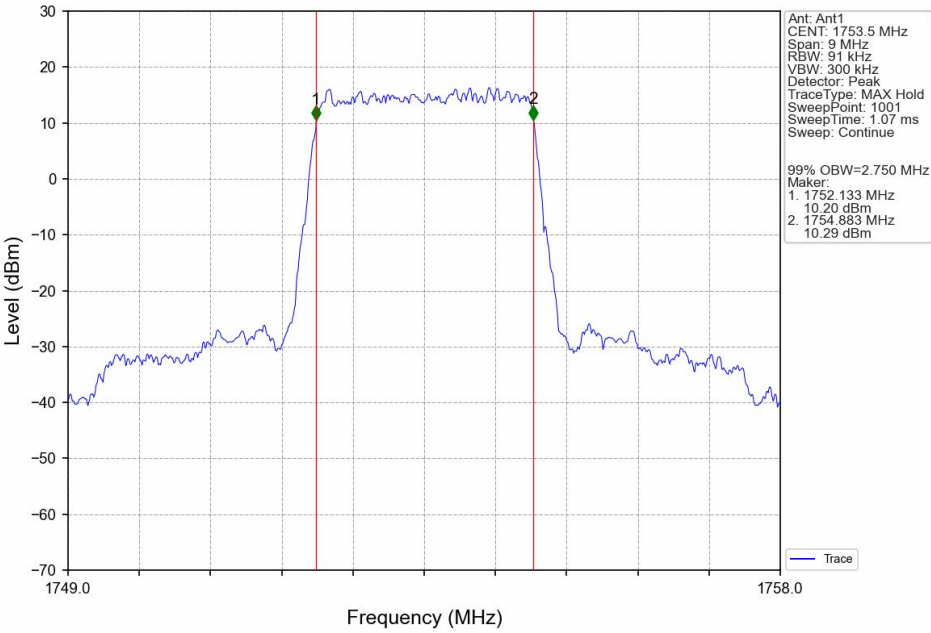
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



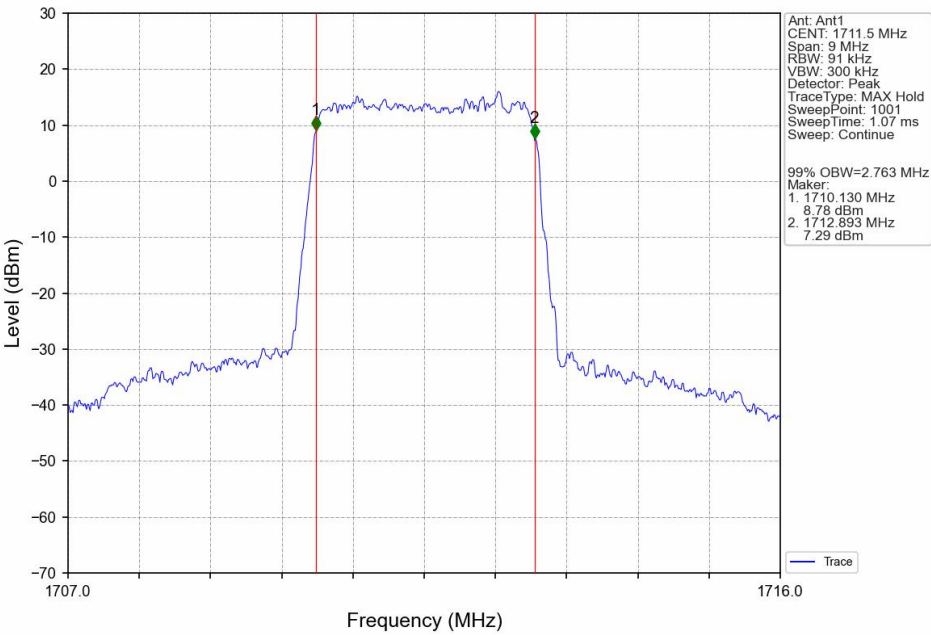
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



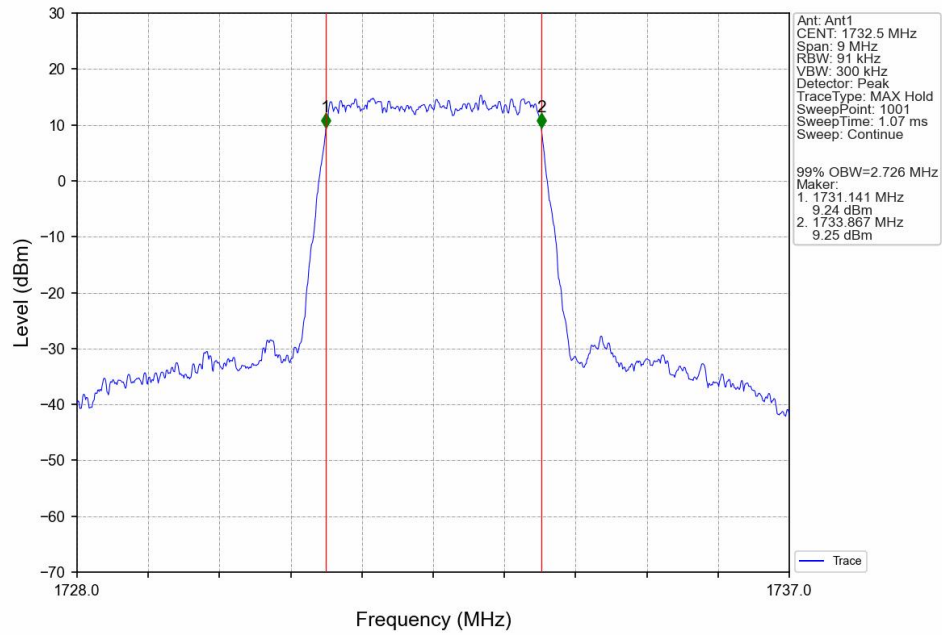
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



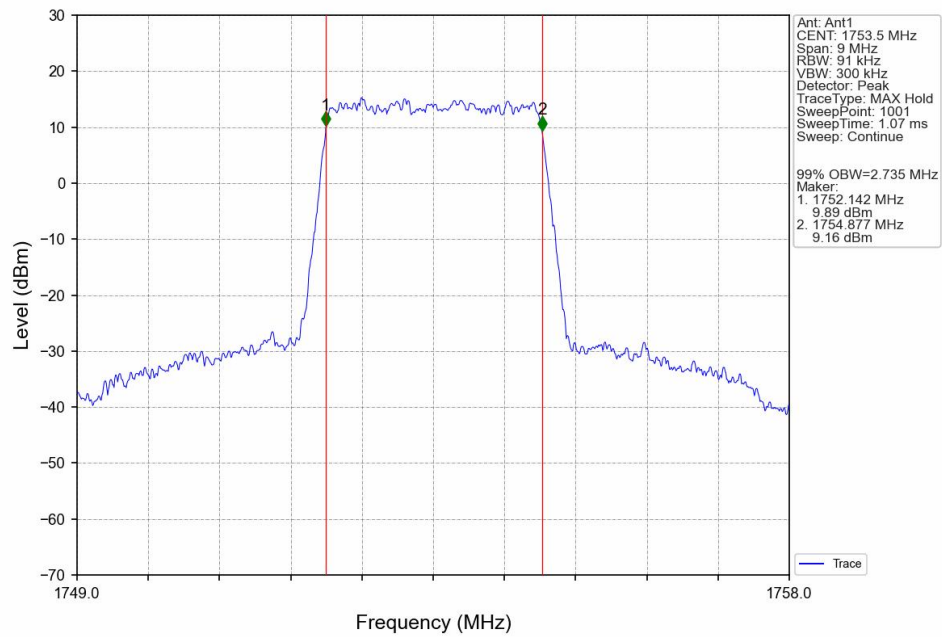
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



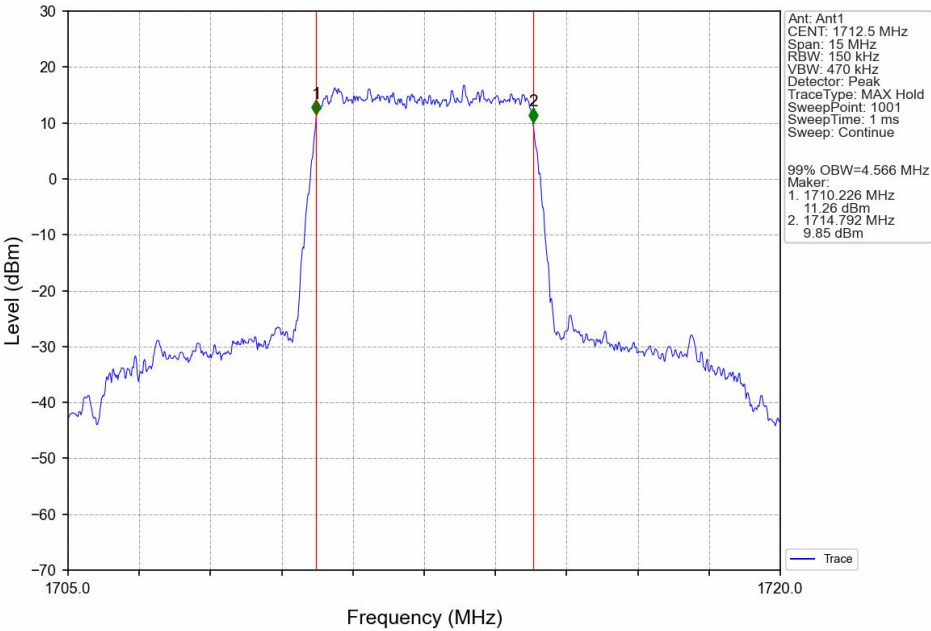
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



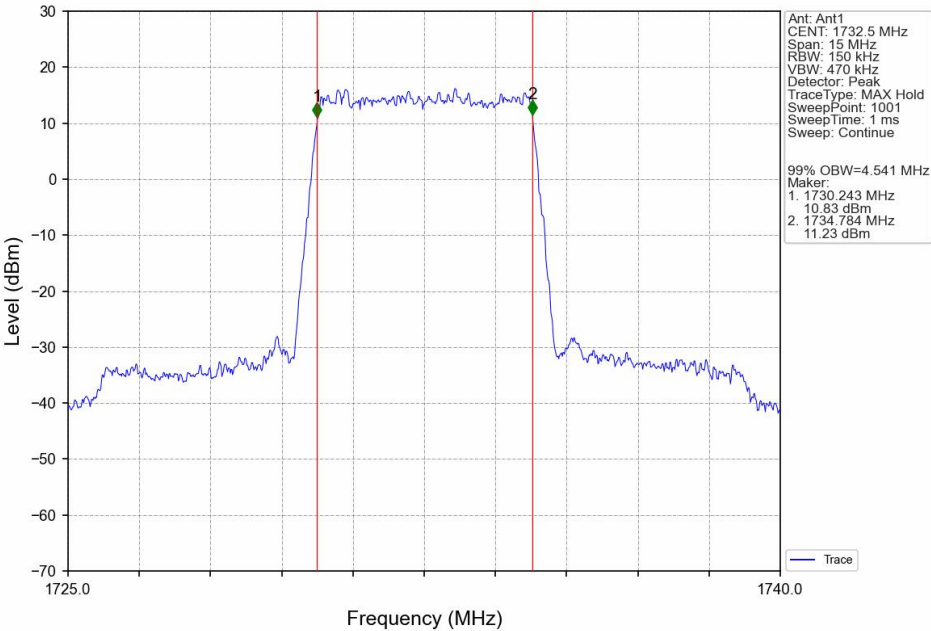
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



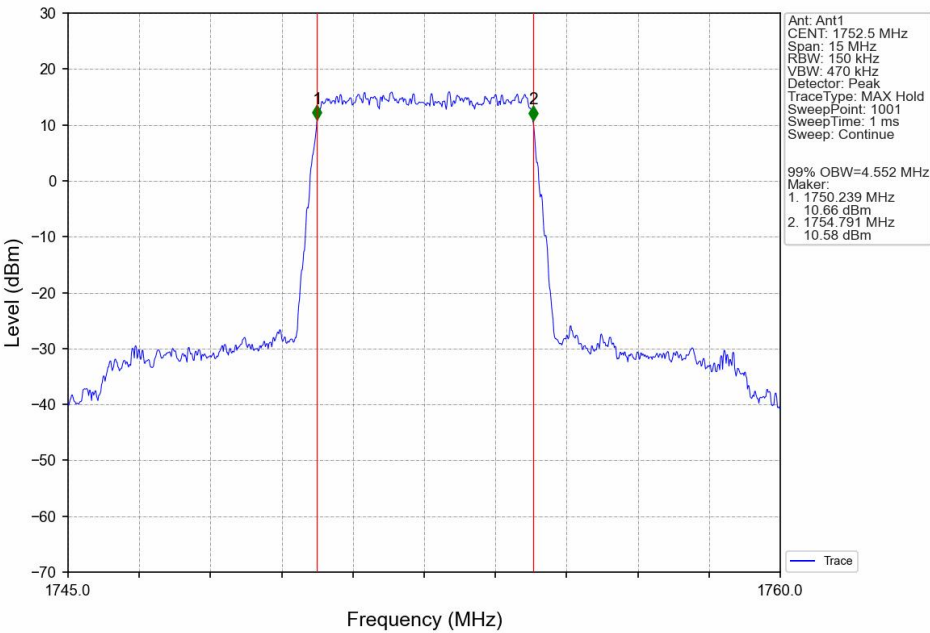
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



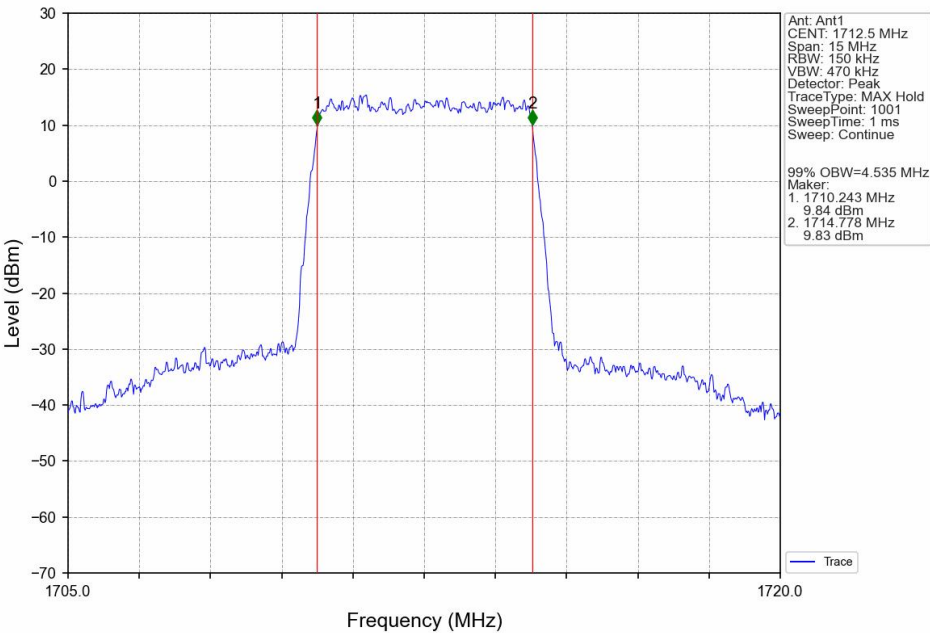
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

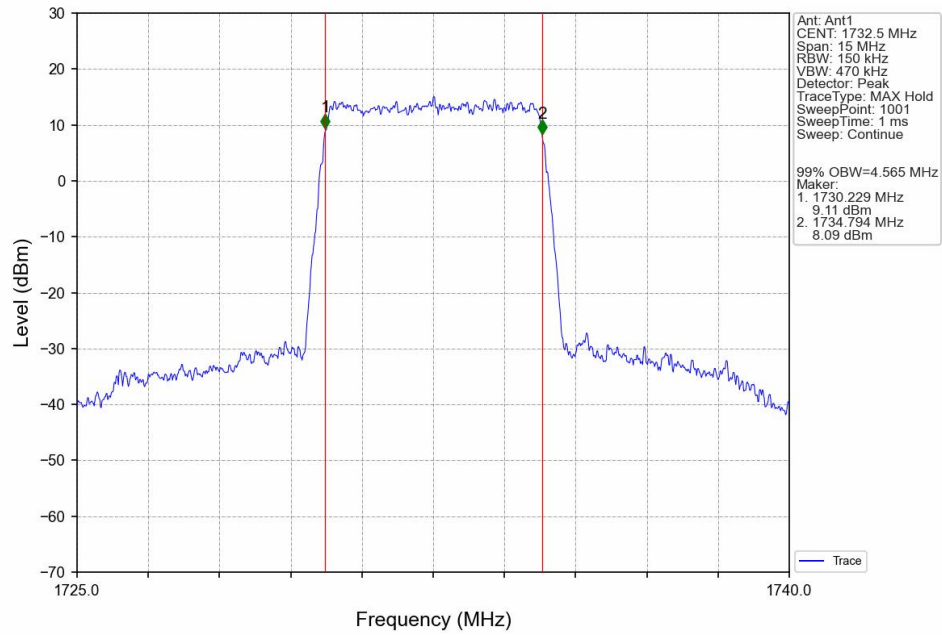


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

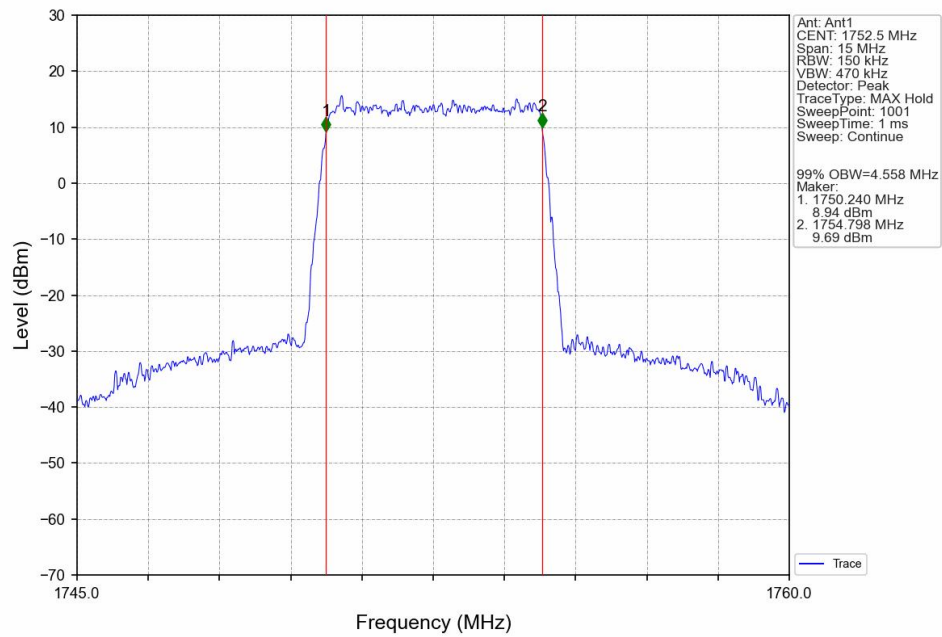


Model: MDPT3301LE

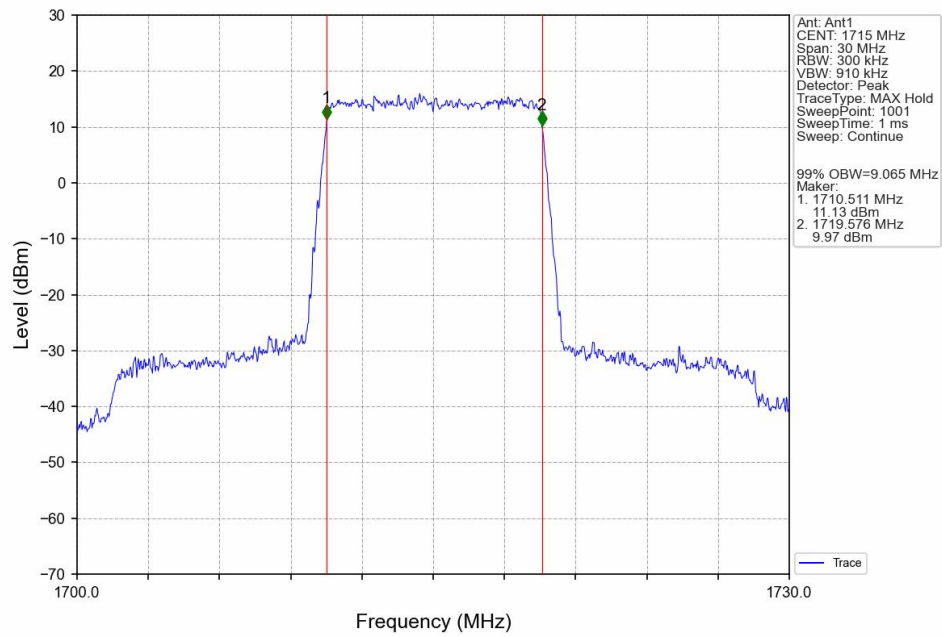
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



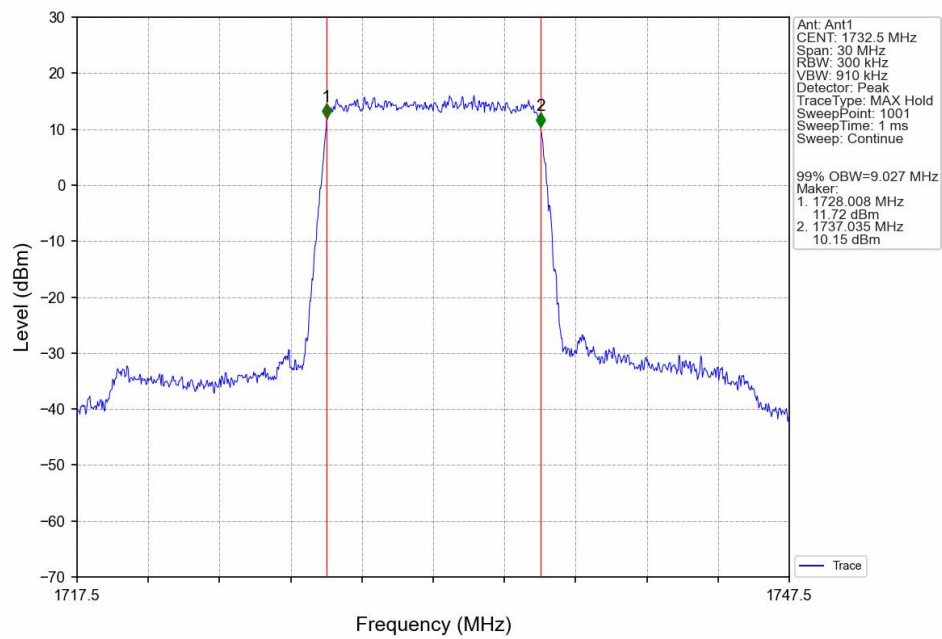
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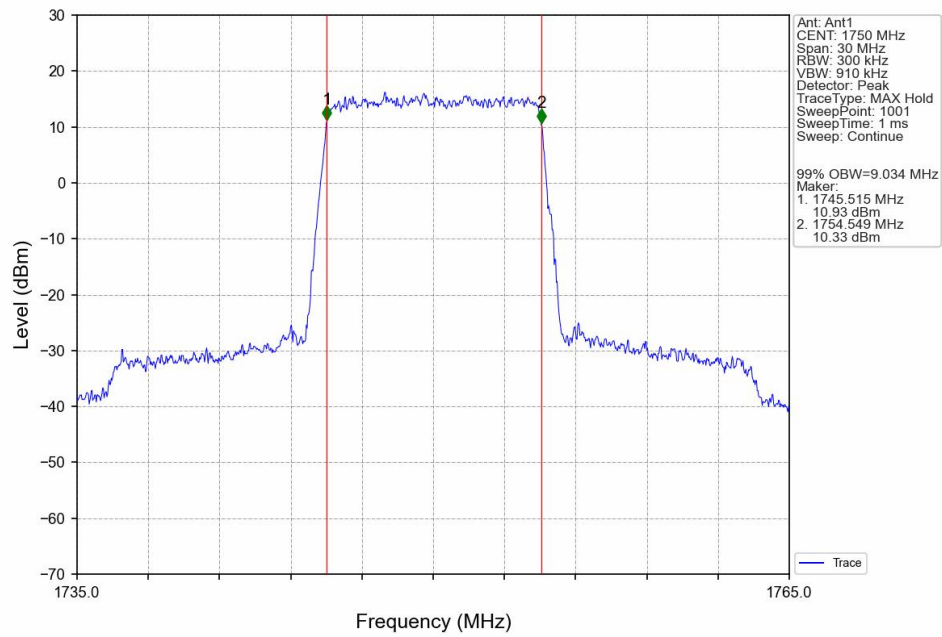
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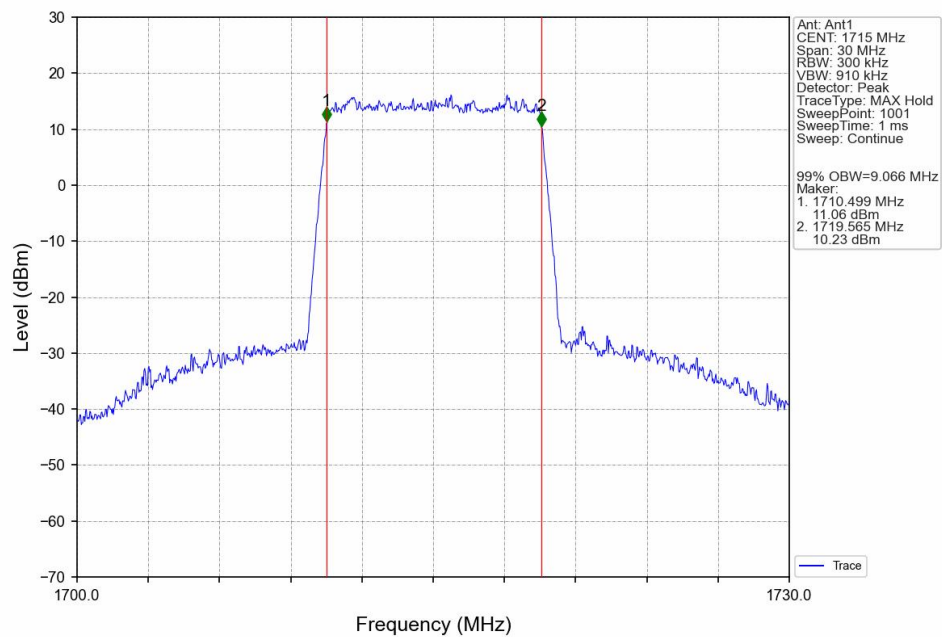
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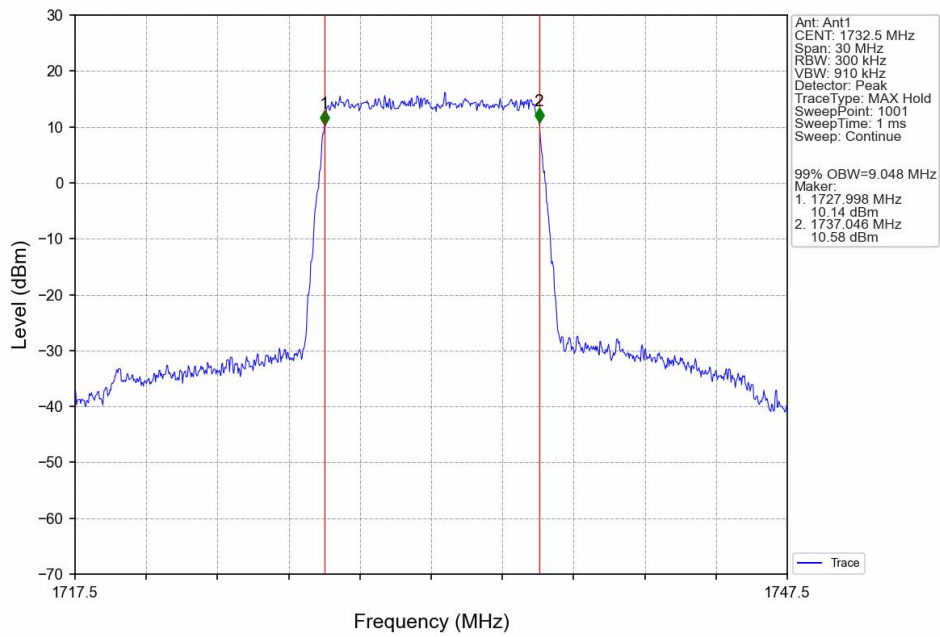
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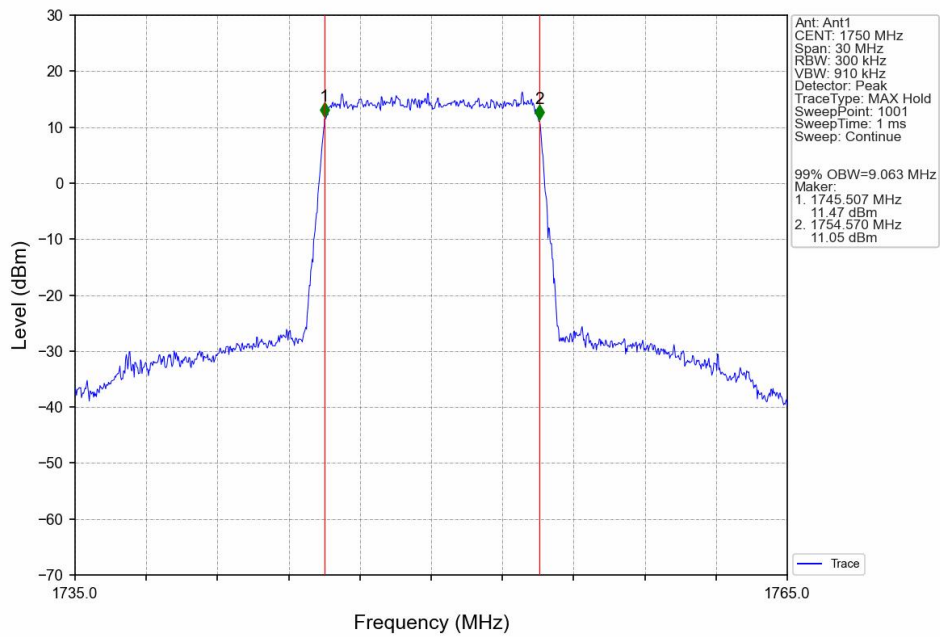
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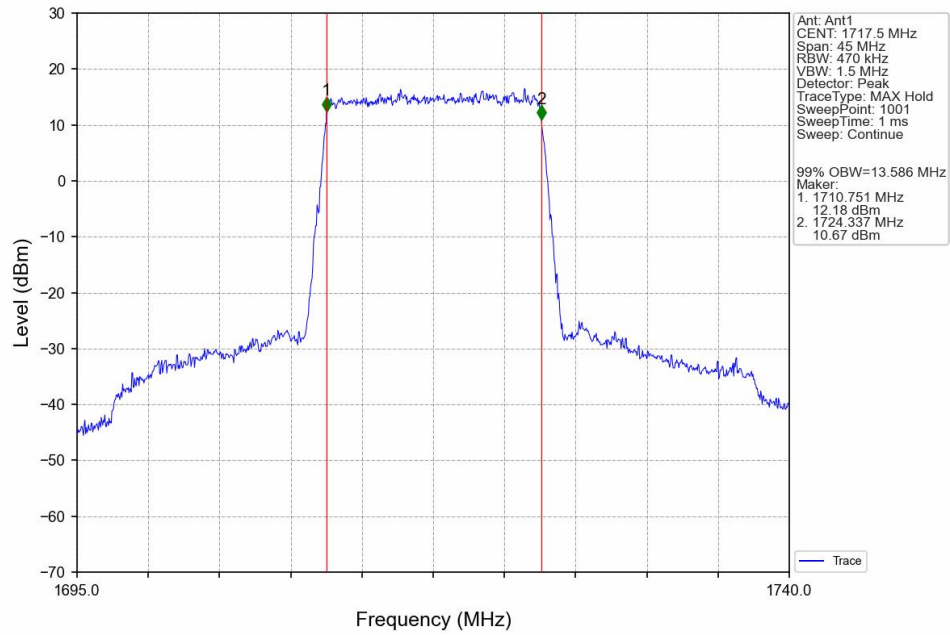
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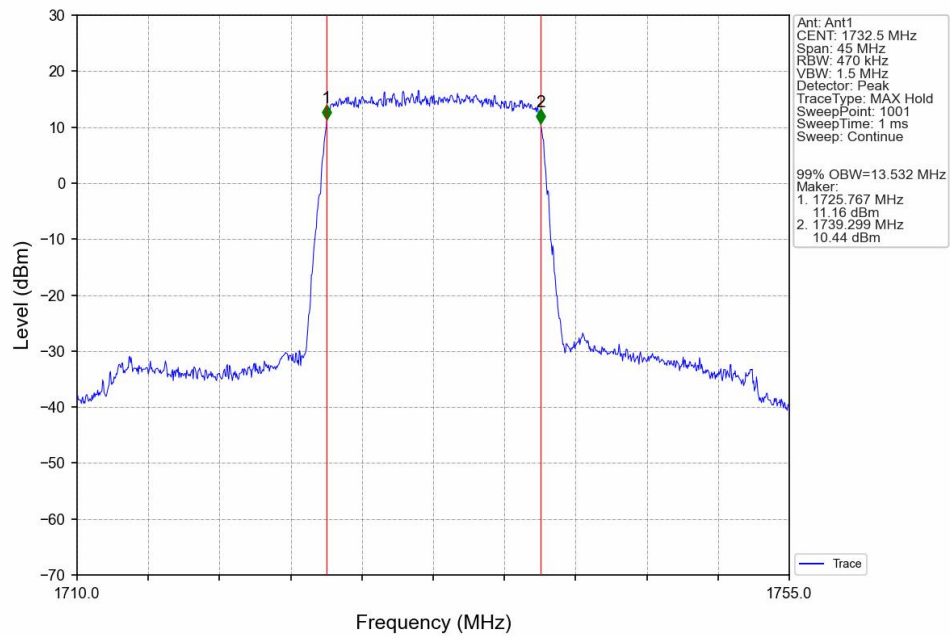
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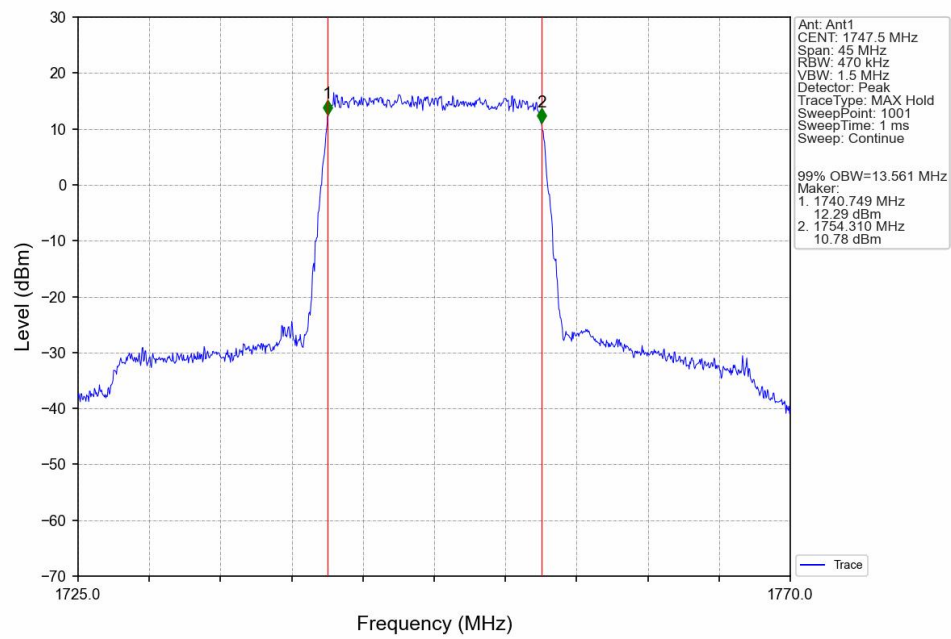
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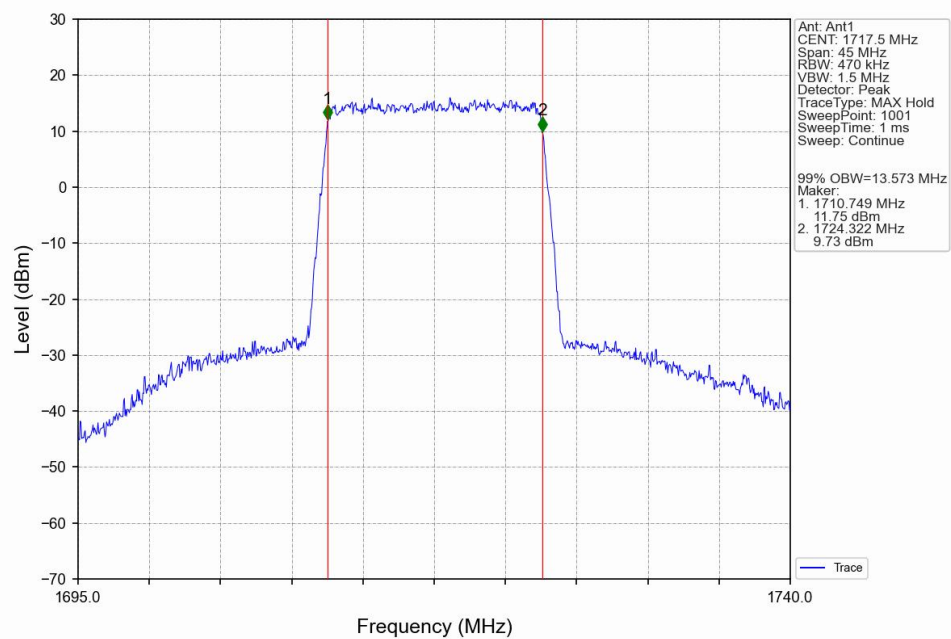
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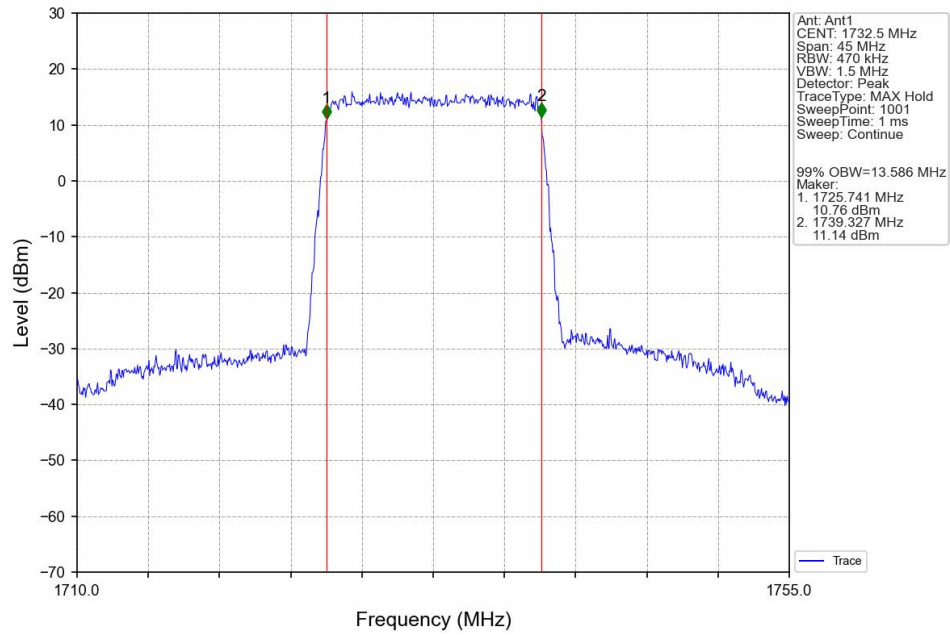
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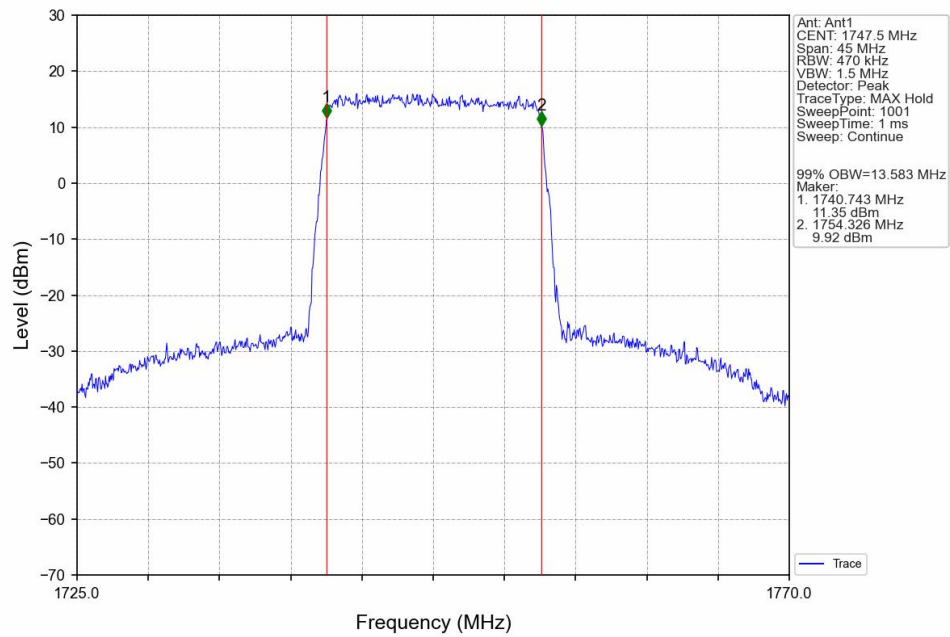
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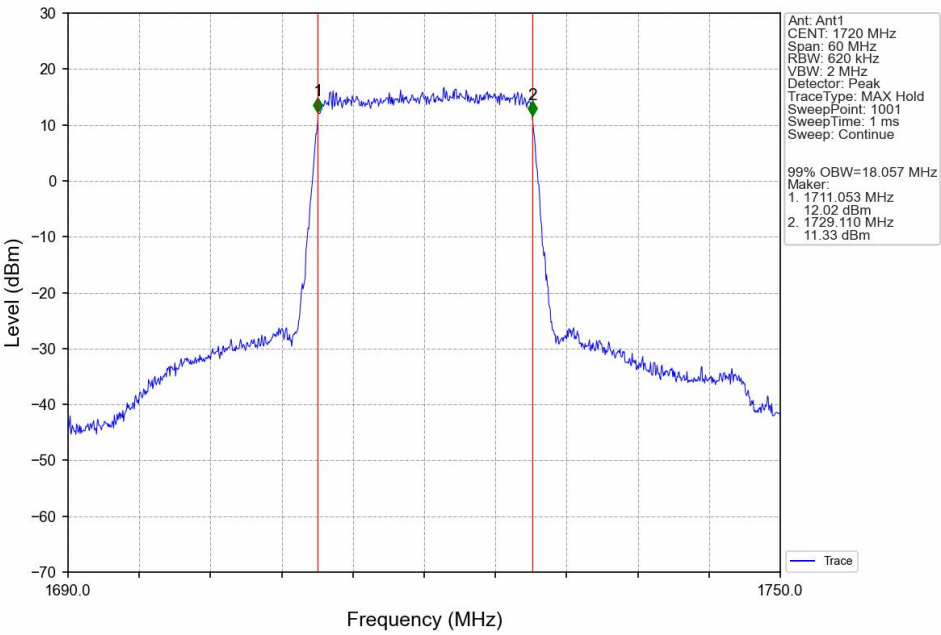
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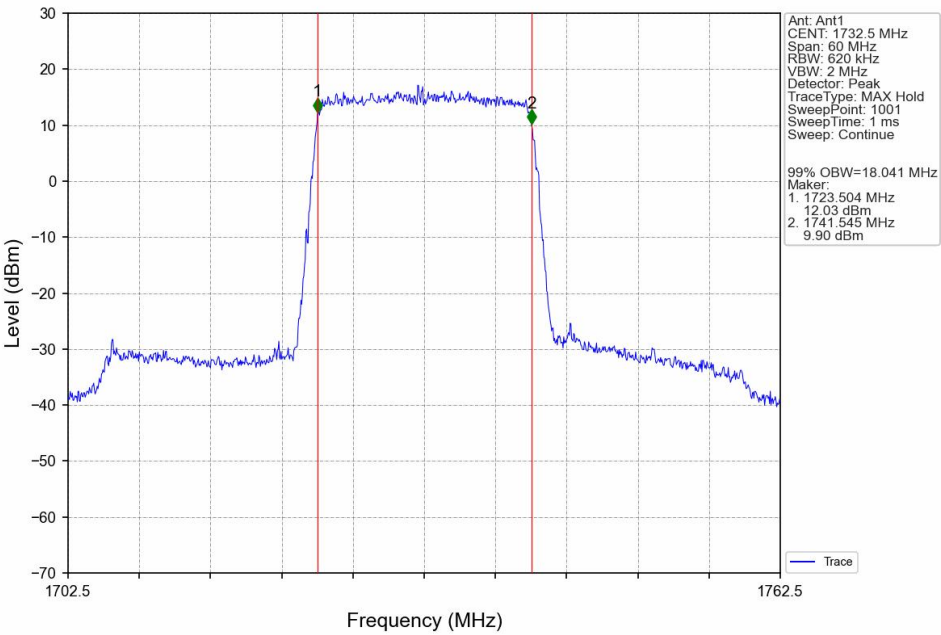
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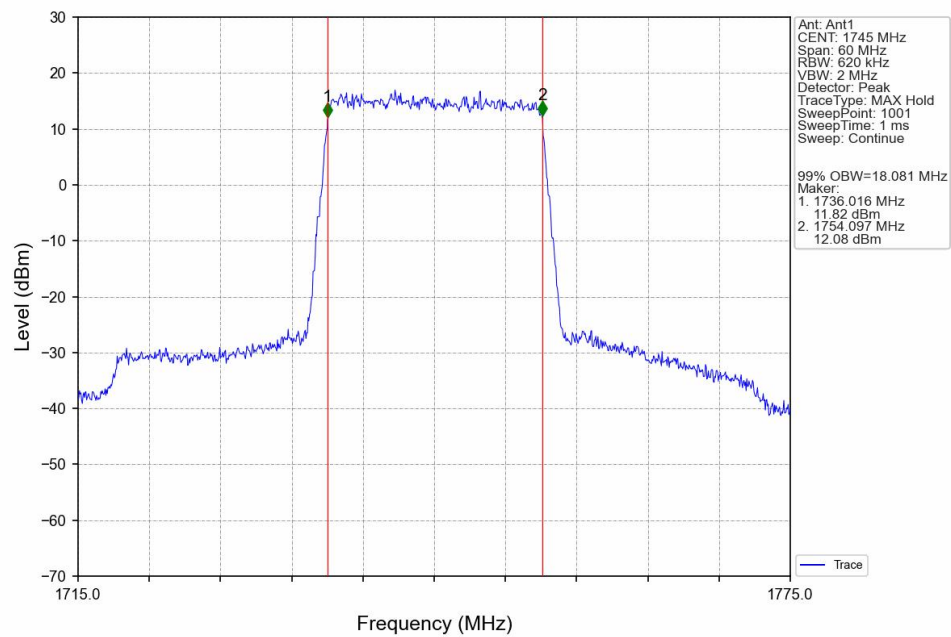
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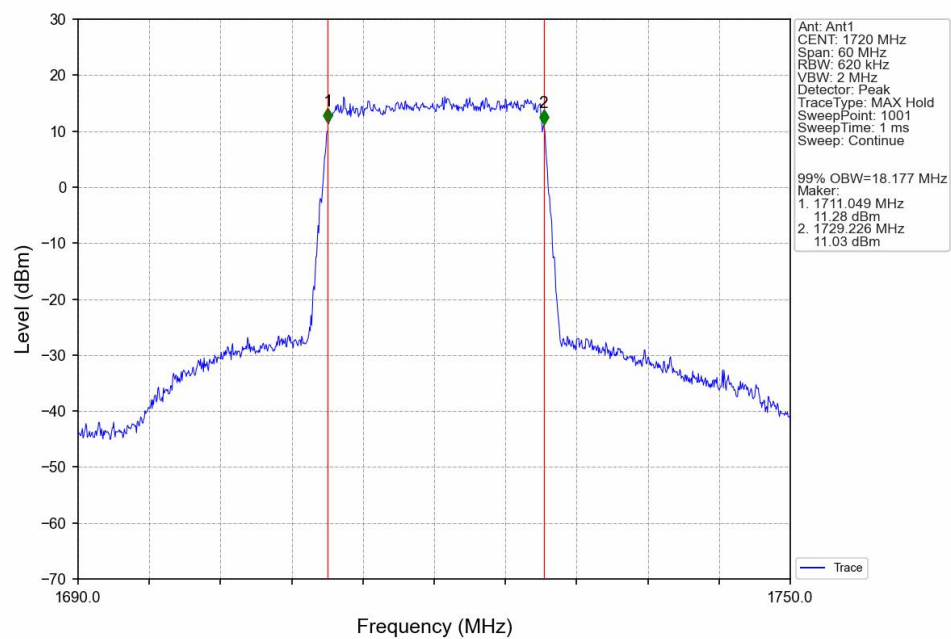
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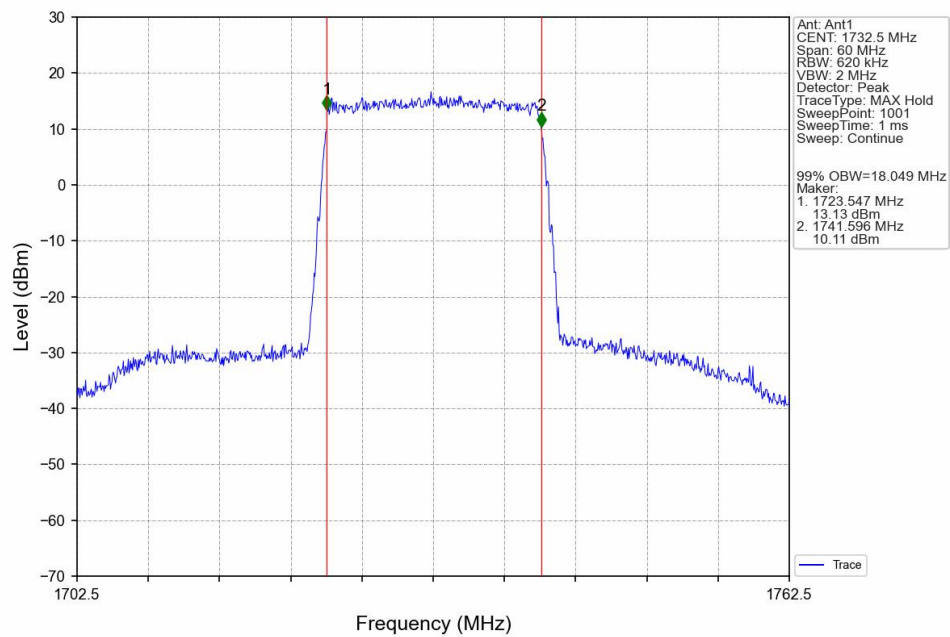
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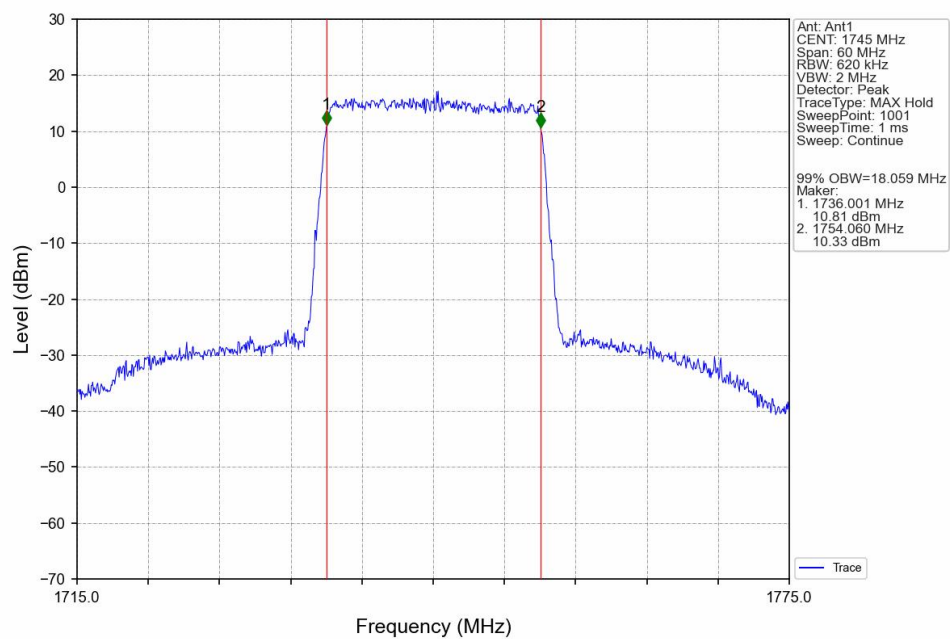
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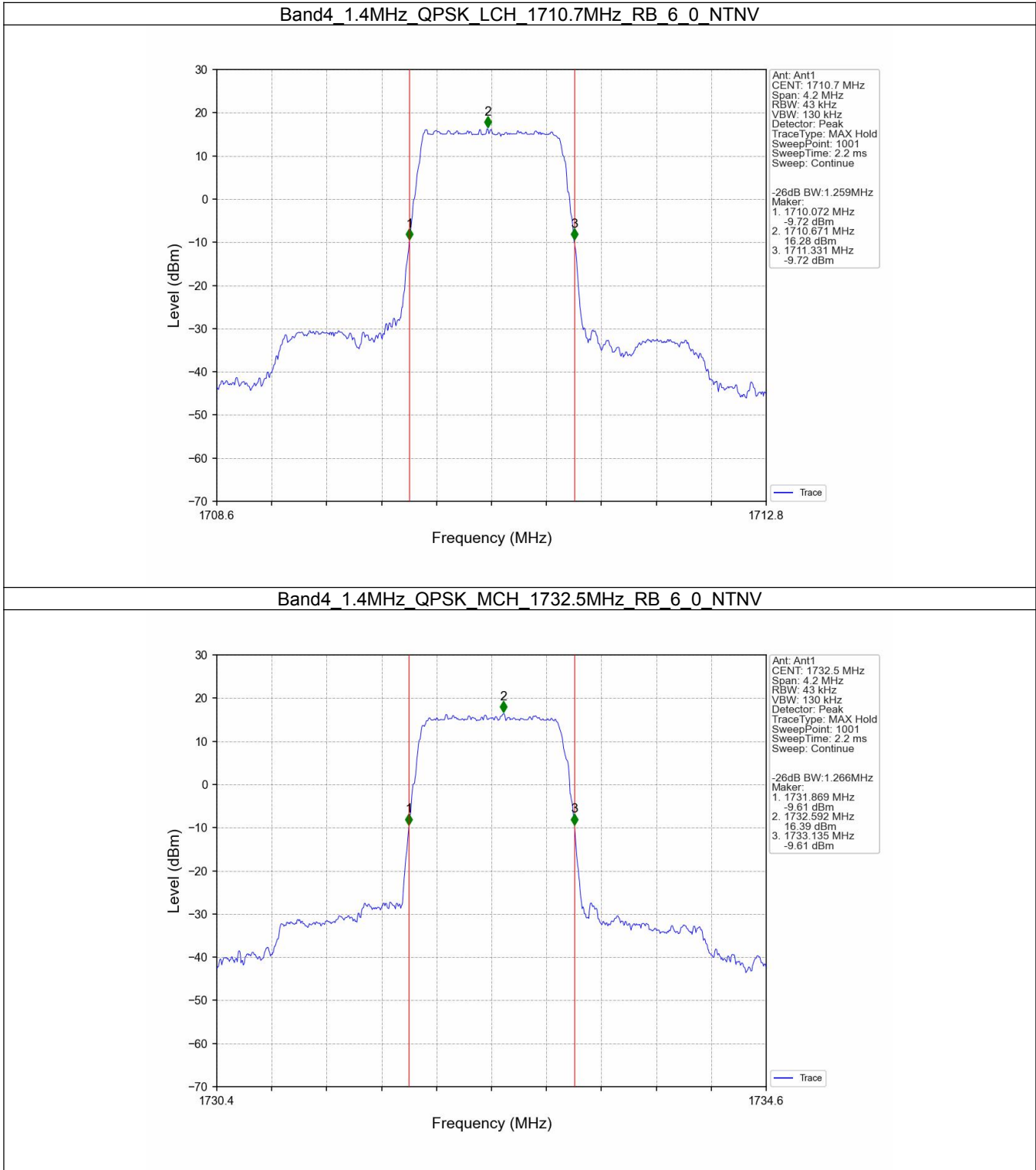
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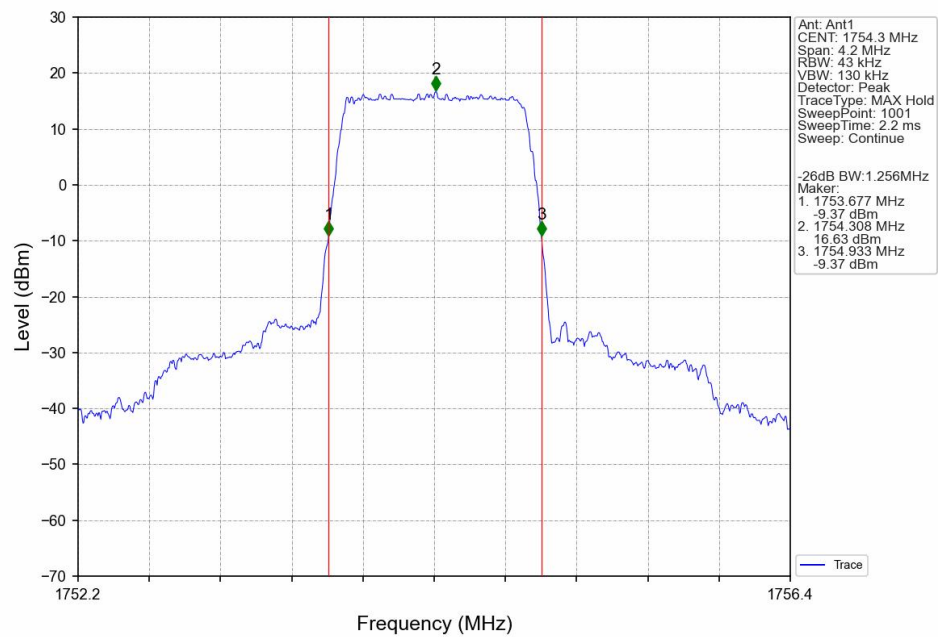
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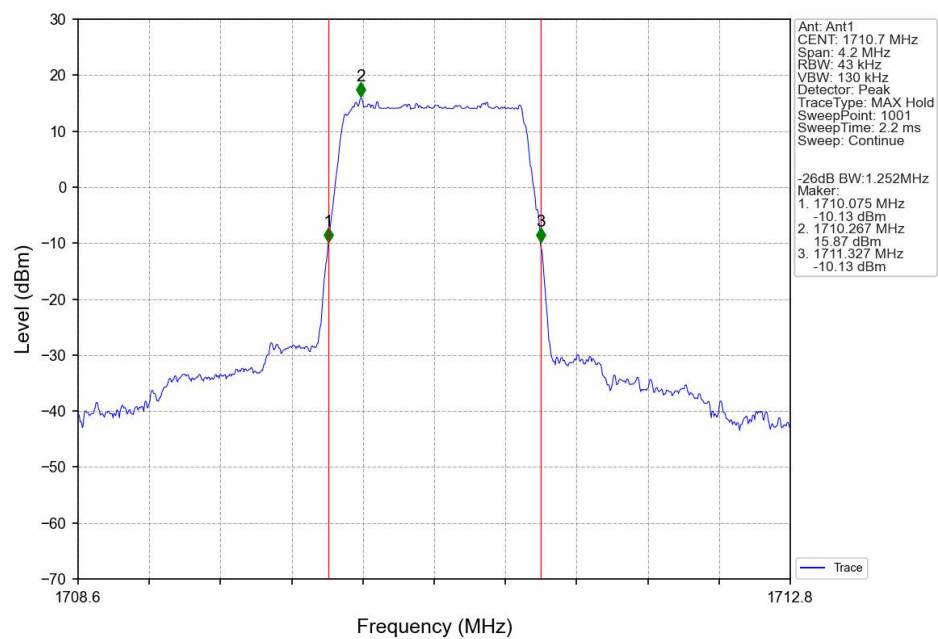
4.2.2 Band4_XDB



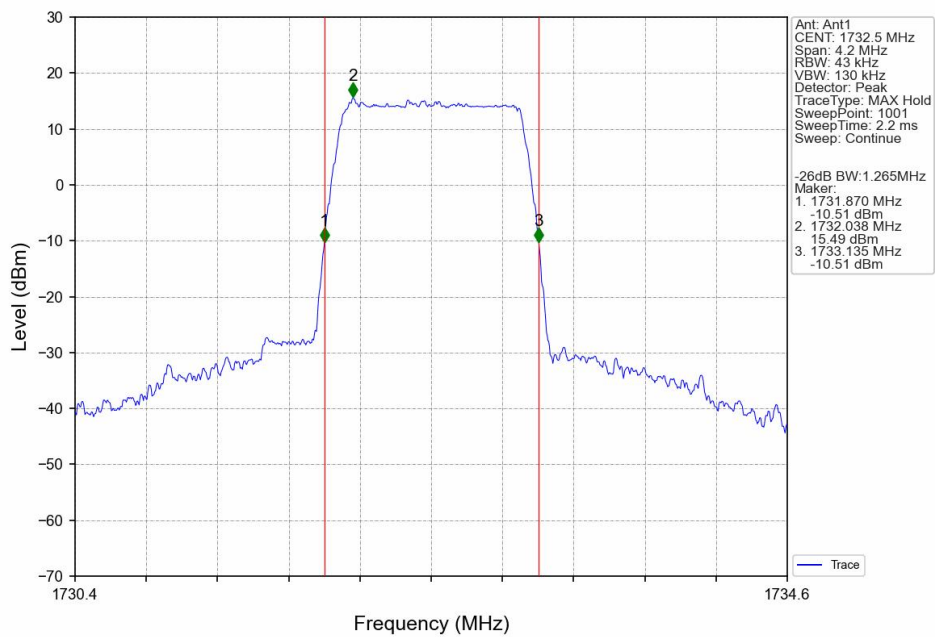
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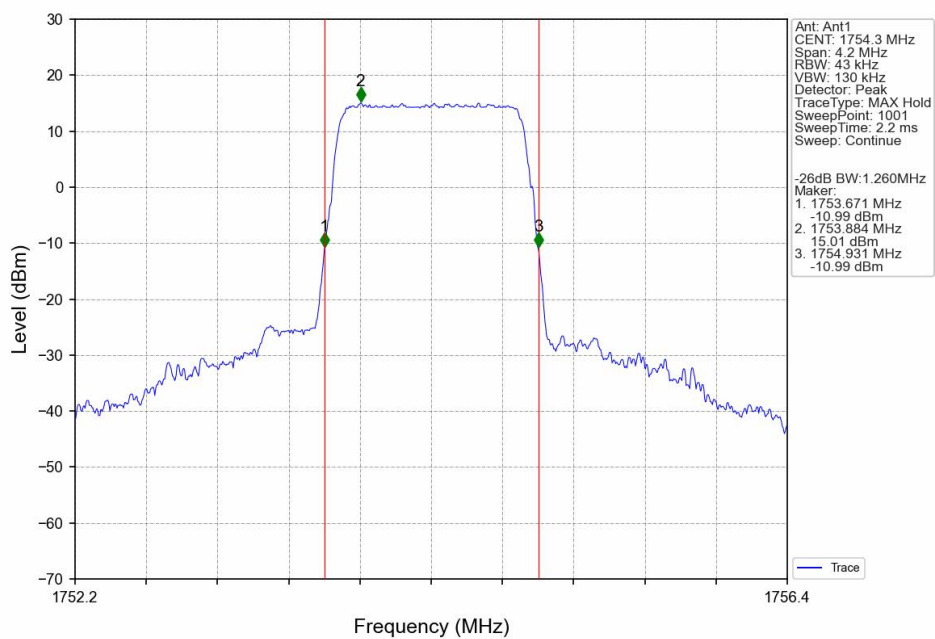
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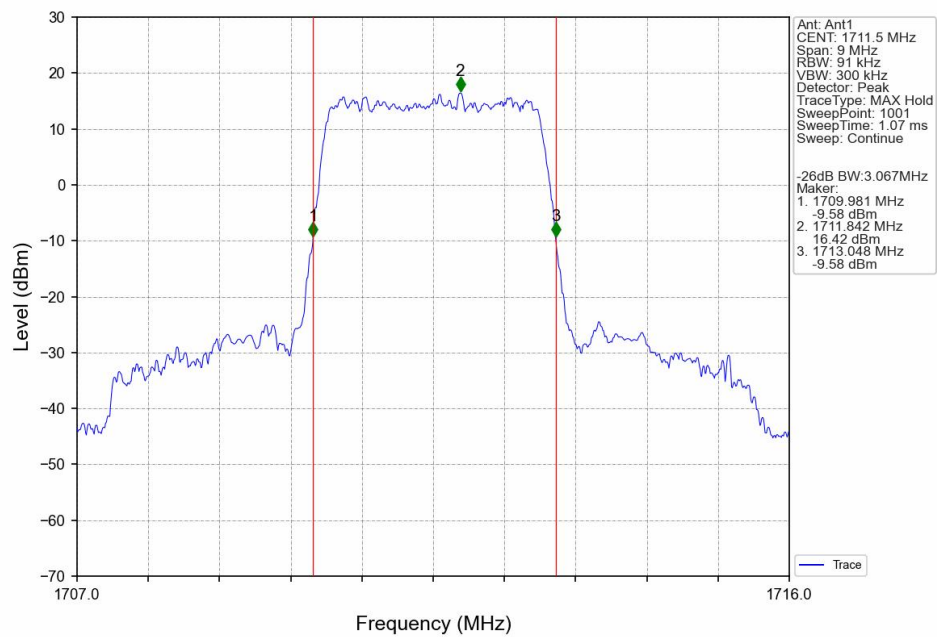
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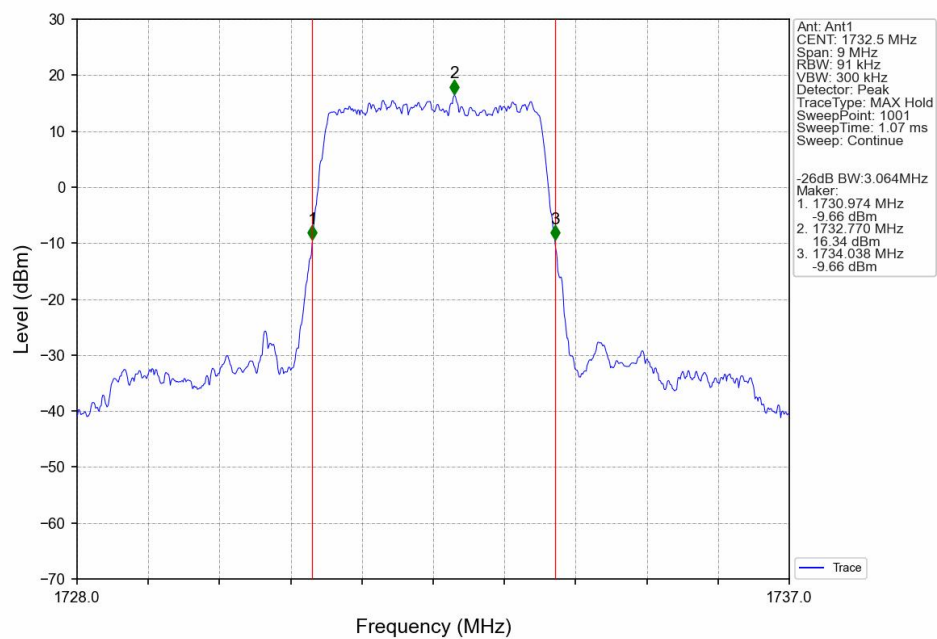
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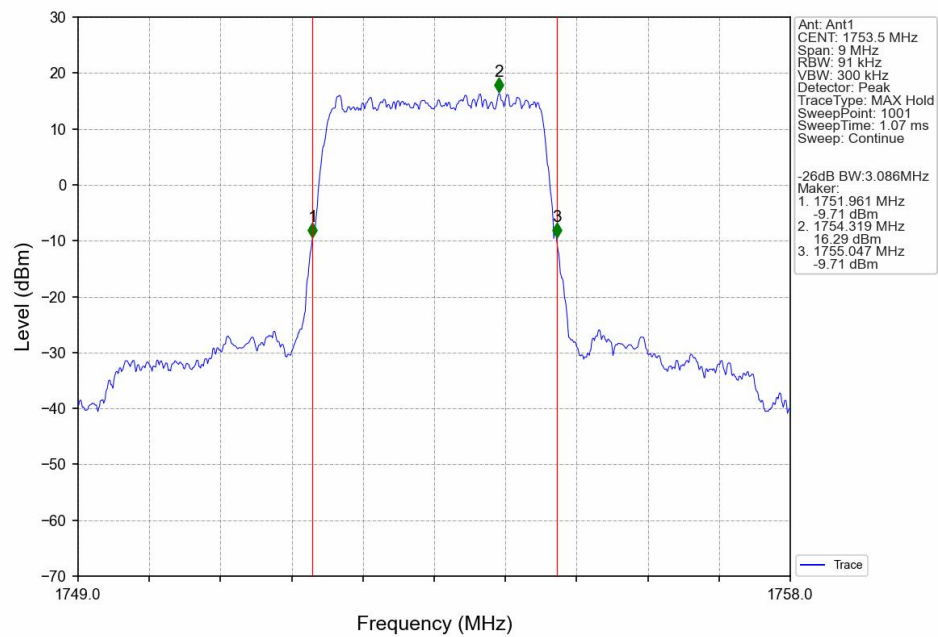
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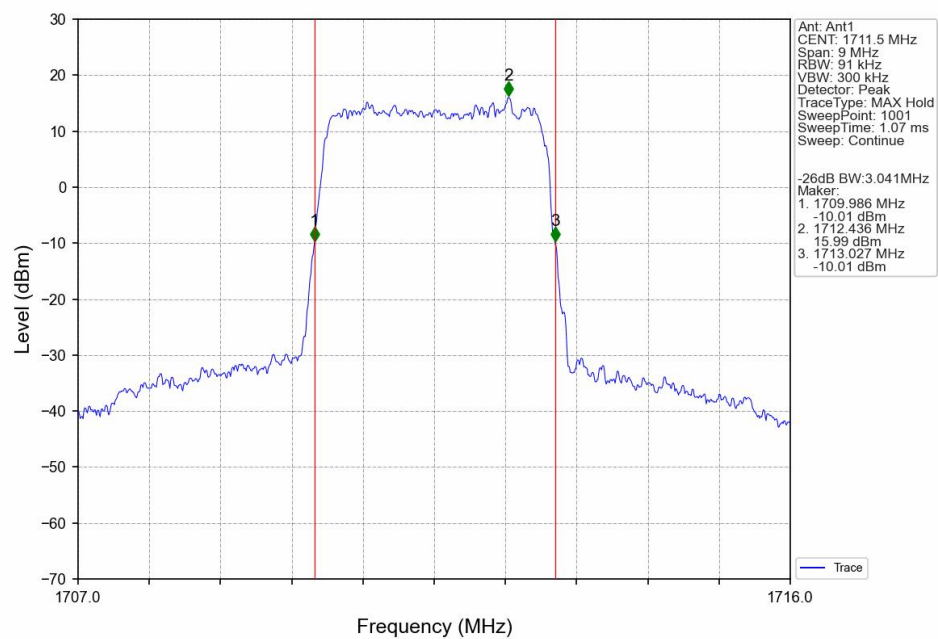
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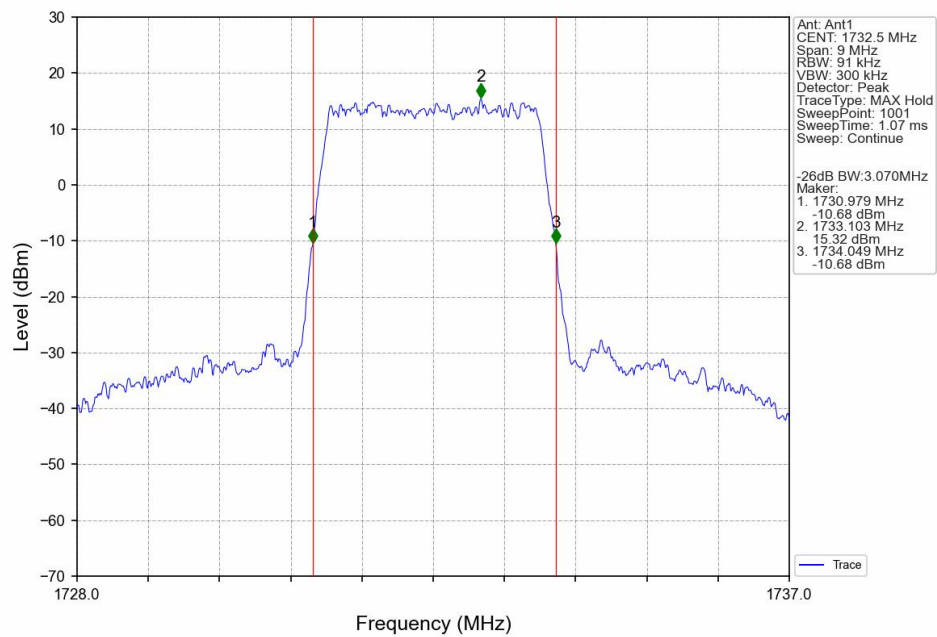
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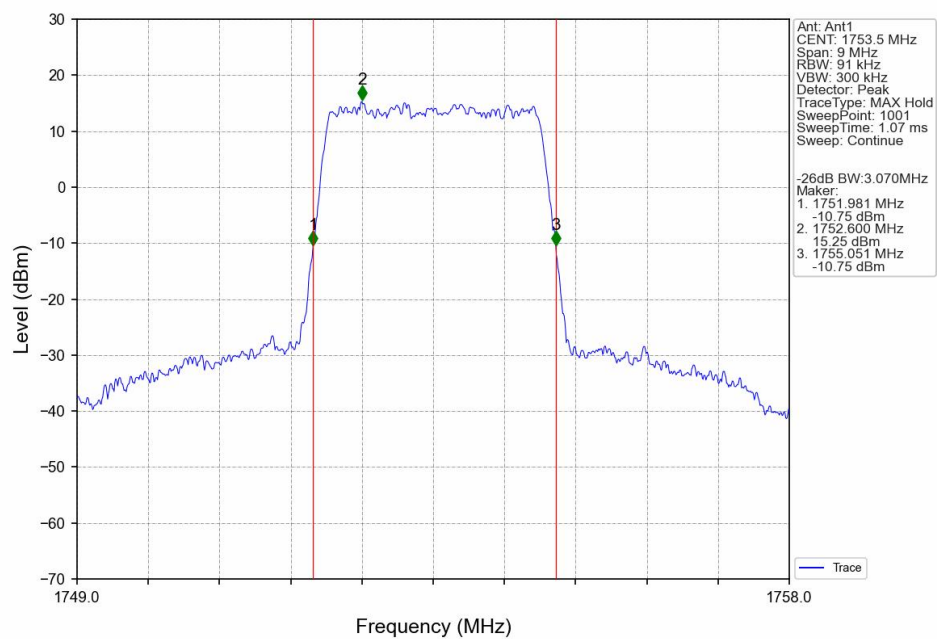
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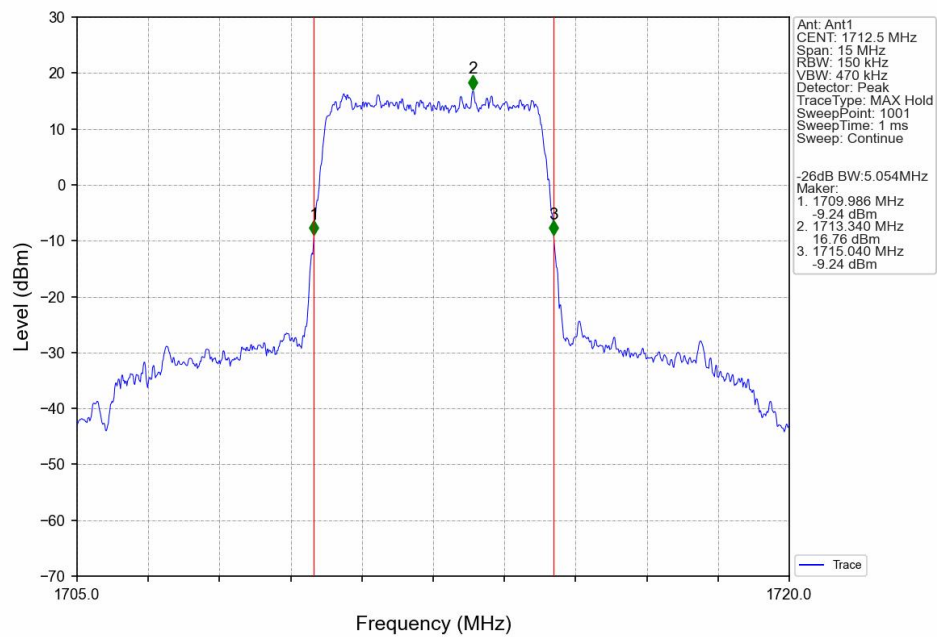
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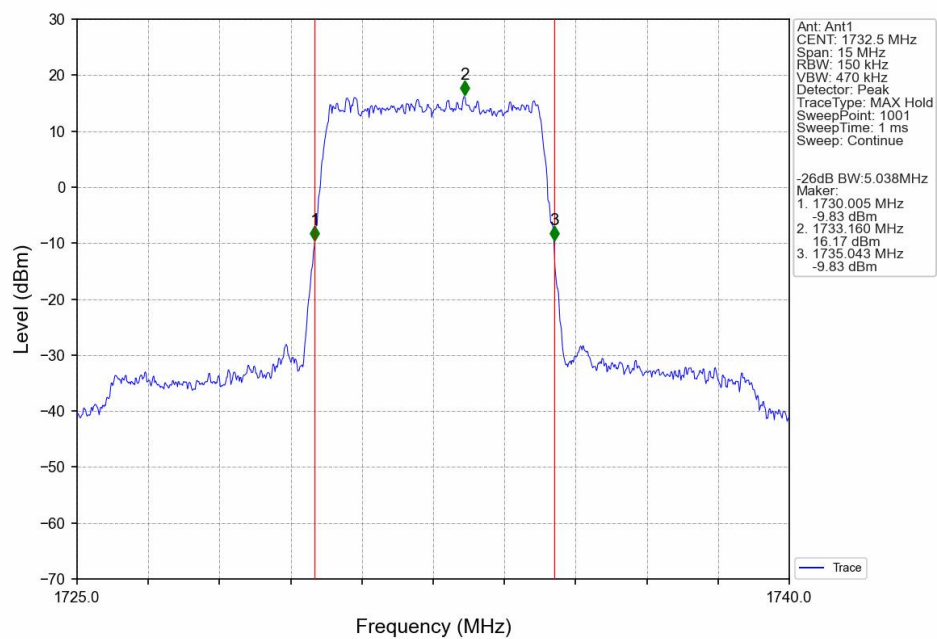
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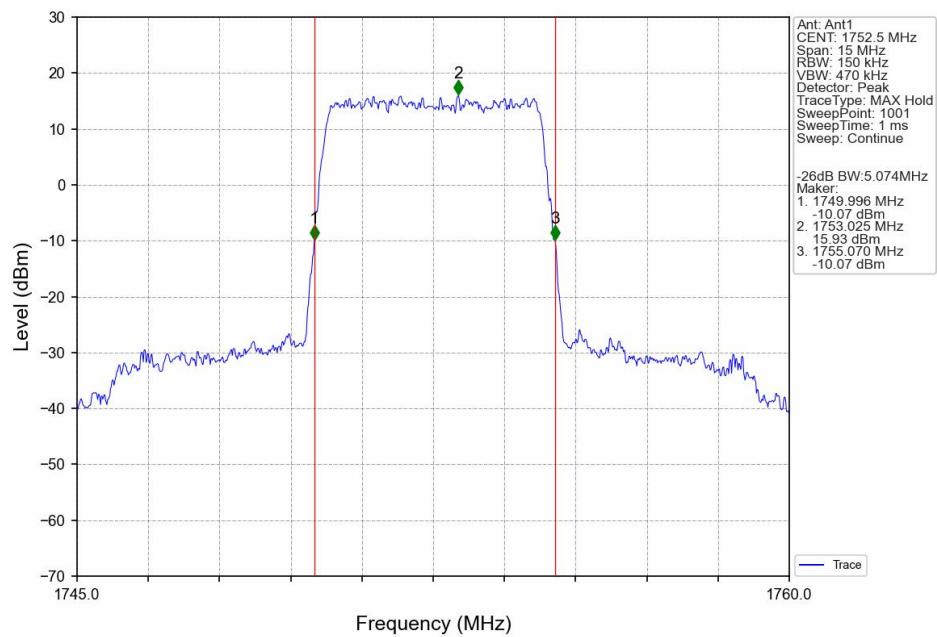
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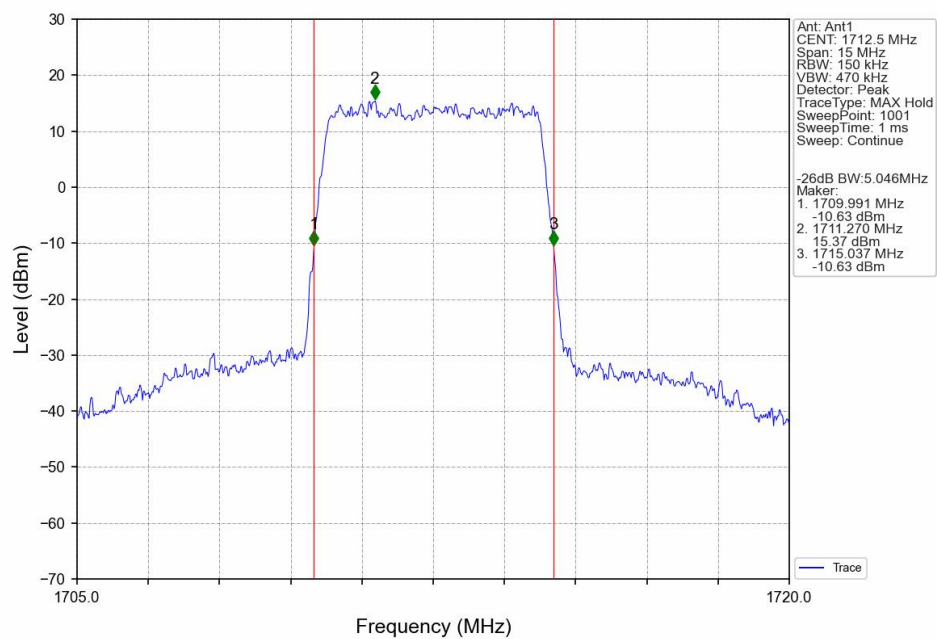
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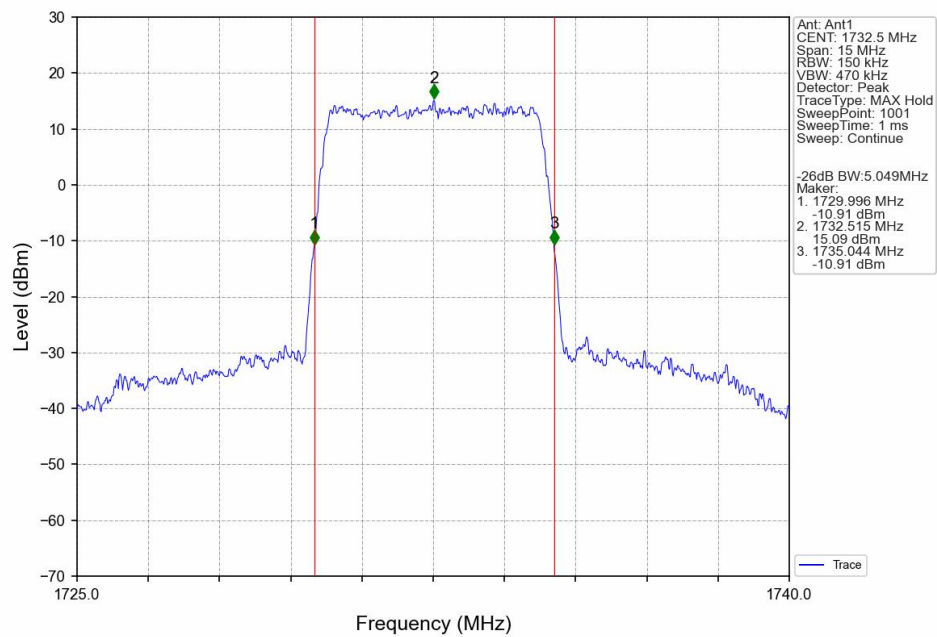
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

