

Appendix Test Data for 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	24.13	0.85	24.98	<=30	Pass		
			2	24.15	0.85	25.00	<=30	Pass		
			5	24.15	0.85	25.00	<=30	Pass		
		3	0	24.64	0.85	25.49	<=30	Pass		
			2	24.66	0.85	25.51	<=30	Pass		
			3	24.69	0.85	25.54	<=30	Pass		
		6	0	23.65	0.85	24.50	<=30	Pass		
		1732.5	1	0	24.11	0.85	24.96	<=30	Pass	
				2	24.11	0.85	24.96	<=30	Pass	
	5			24.10	0.85	24.95	<=30	Pass		
	3		0	24.63	0.85	25.48	<=30	Pass		
			2	24.61	0.85	25.46	<=30	Pass		
			3	24.61	0.85	25.46	<=30	Pass		
	6	0	23.70	0.85	24.55	<=30	Pass			
	1754.3	1	0	24.14	0.85	24.99	<=30	Pass		
			2	24.11	0.85	24.96	<=30	Pass		
			5	24.14	0.85	24.99	<=30	Pass		
		3	0	24.72	0.85	25.57	<=30	Pass		
			2	24.72	0.85	25.57	<=30	Pass		
			3	24.72	0.85	25.57	<=30	Pass		
		6	0	23.73	0.85	24.58	<=30	Pass		
		16QAM	1710.7	1	0	23.19	0.85	24.04	<=30	Pass
					2	23.21	0.85	24.06	<=30	Pass
	5				23.24	0.85	24.09	<=30	Pass	
3	0			23.66	0.85	24.51	<=30	Pass		
	2			23.64	0.85	24.49	<=30	Pass		
	3			23.66	0.85	24.51	<=30	Pass		
6	0			22.54	0.85	23.39	<=30	Pass		
1732.5	1			0	23.33	0.85	24.18	<=30	Pass	
				2	23.33	0.85	24.18	<=30	Pass	
			5	23.32	0.85	24.17	<=30	Pass		
	3		0	23.68	0.85	24.53	<=30	Pass		
			2	23.66	0.85	24.51	<=30	Pass		
			3	23.68	0.85	24.53	<=30	Pass		
6	0		22.69	0.85	23.54	<=30	Pass			
1754.3	1		0	23.20	0.85	24.05	<=30	Pass		
			2	23.16	0.85	24.01	<=30	Pass		
			5	23.17	0.85	24.02	<=30	Pass		
	3		0	23.87	0.85	24.72	<=30	Pass		
			2	23.90	0.85	24.75	<=30	Pass		
			3	23.91	0.85	24.76	<=30	Pass		
	6		0	22.71	0.85	23.56	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	EIRP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit	
QPSK	1711.5	1	0	24.16	0.85	25.01	<=30	Pass
			7	24.07	0.85	24.92	<=30	Pass
			14	24.09	0.85	24.94	<=30	Pass
		8	0	23.58	0.85	24.43	<=30	Pass
			4	23.59	0.85	24.44	<=30	Pass
			7	23.58	0.85	24.43	<=30	Pass
	15	0	23.58	0.85	24.43	<=30	Pass	
	1732.5	1	0	24.11	0.85	24.96	<=30	Pass
			7	24.11	0.85	24.96	<=30	Pass
			14	24.09	0.85	24.94	<=30	Pass
		8	0	23.65	0.85	24.50	<=30	Pass
			4	23.61	0.85	24.46	<=30	Pass
			7	23.62	0.85	24.47	<=30	Pass
	15	0	23.63	0.85	24.48	<=30	Pass	
	1753.5	1	0	24.18	0.85	25.03	<=30	Pass
7			24.22	0.85	25.07	<=30	Pass	
14			24.19	0.85	25.04	<=30	Pass	
8		0	23.68	0.85	24.53	<=30	Pass	
		4	23.70	0.85	24.55	<=30	Pass	
		7	23.70	0.85	24.55	<=30	Pass	
15	0	23.70	0.85	24.55	<=30	Pass		
16QAM	1711.5	1	0	23.22	0.85	24.07	<=30	Pass
			7	23.17	0.85	24.02	<=30	Pass
			14	23.15	0.85	24.00	<=30	Pass
		8	0	22.61	0.85	23.46	<=30	Pass
			4	22.65	0.85	23.50	<=30	Pass
			7	22.66	0.85	23.51	<=30	Pass
	15	0	22.60	0.85	23.45	<=30	Pass	
	1732.5	1	0	23.36	0.85	24.21	<=30	Pass
			7	23.36	0.85	24.21	<=30	Pass
			14	23.32	0.85	24.17	<=30	Pass
		8	0	22.62	0.85	23.47	<=30	Pass
			4	22.61	0.85	23.46	<=30	Pass
			7	22.62	0.85	23.47	<=30	Pass
	15	0	22.57	0.85	23.42	<=30	Pass	
	1753.5	1	0	23.75	0.85	24.60	<=30	Pass
			7	23.75	0.85	24.60	<=30	Pass
			14	23.75	0.85	24.60	<=30	Pass
		8	0	22.88	0.85	23.73	<=30	Pass
4			22.85	0.85	23.70	<=30	Pass	
7			22.85	0.85	23.70	<=30	Pass	
15	0	22.78	0.85	23.63	<=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	24.27	0.85	25.12	<=30	Pass
			13	24.17	0.85	25.02	<=30	Pass
			24	24.22	0.85	25.07	<=30	Pass
		12	0	23.57	0.85	24.42	<=30	Pass
			6	23.58	0.85	24.43	<=30	Pass
			13	23.63	0.85	24.48	<=30	Pass
	25	0	23.59	0.85	24.44	<=30	Pass	
	1732.5	1	0	24.25	0.85	25.10	<=30	Pass

16QAM	1752.5	12	13	24.23	0.85	25.08	<=30	Pass	
			24	24.27	0.85	25.12	<=30	Pass	
			0	23.69	0.85	24.54	<=30	Pass	
		12	6	23.67	0.85	24.52	<=30	Pass	
			13	23.67	0.85	24.52	<=30	Pass	
			25	0	23.72	0.85	24.57	<=30	Pass
		1712.5	1	0	24.36	0.85	25.21	<=30	Pass
				13	24.34	0.85	25.19	<=30	Pass
				24	24.44	0.85	25.29	<=30	Pass
			12	0	23.75	0.85	24.60	<=30	Pass
				6	23.75	0.85	24.60	<=30	Pass
				13	23.68	0.85	24.53	<=30	Pass
	25		0	23.74	0.85	24.59	<=30	Pass	
	1732.5		1	0	23.31	0.85	24.16	<=30	Pass
				13	23.19	0.85	24.04	<=30	Pass
		24		23.26	0.85	24.11	<=30	Pass	
		12	0	22.54	0.85	23.39	<=30	Pass	
			6	22.54	0.85	23.39	<=30	Pass	
			13	22.56	0.85	23.41	<=30	Pass	
		25	0	22.61	0.85	23.46	<=30	Pass	
		1752.5	1	0	23.54	0.85	24.39	<=30	Pass
				13	23.46	0.85	24.31	<=30	Pass
				24	23.55	0.85	24.40	<=30	Pass
			12	0	22.71	0.85	23.56	<=30	Pass
6				22.69	0.85	23.54	<=30	Pass	
13	22.70			0.85	23.55	<=30	Pass		
25	0	22.70	0.85	23.55	<=30	Pass			
1752.5	1	0	23.08	0.85	23.93	<=30	Pass		
		13	23.06	0.85	23.91	<=30	Pass		
		24	23.17	0.85	24.02	<=30	Pass		
	12	0	22.72	0.85	23.57	<=30	Pass		
		6	22.72	0.85	23.57	<=30	Pass		
		13	22.68	0.85	23.53	<=30	Pass		
	25	0	22.77	0.85	23.62	<=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	24.19	0.85	25.04	<=30	Pass	
			25	24.23	0.85	25.08	<=30	Pass	
			49	24.24	0.85	25.09	<=30	Pass	
		25	0	23.56	0.85	24.41	<=30	Pass	
			13	23.67	0.85	24.52	<=30	Pass	
			25	23.65	0.85	24.50	<=30	Pass	
		50	0	23.63	0.85	24.48	<=30	Pass	
		1732.5	1	0	24.17	0.85	25.02	<=30	Pass
				25	24.19	0.85	25.04	<=30	Pass
	49			24.17	0.85	25.02	<=30	Pass	
	25		0	23.70	0.85	24.55	<=30	Pass	
			13	23.71	0.85	24.56	<=30	Pass	
			25	23.68	0.85	24.53	<=30	Pass	
	50	0	23.70	0.85	24.55	<=30	Pass		
	1750	1	0	24.19	0.85	25.04	<=30	Pass	
			25	24.21	0.85	25.06	<=30	Pass	
			49	24.25	0.85	25.10	<=30	Pass	

16QAM	1715	25	0	23.69	0.85	24.54	<=30	Pass	
			13	23.68	0.85	24.53	<=30	Pass	
			25	23.72	0.85	24.57	<=30	Pass	
		50	0	23.77	0.85	24.62	<=30	Pass	
			1	0	23.24	0.85	24.09	<=30	Pass
				25	23.27	0.85	24.12	<=30	Pass
		49		23.28	0.85	24.13	<=30	Pass	
		25	0	22.62	0.85	23.47	<=30	Pass	
			13	22.69	0.85	23.54	<=30	Pass	
	25		22.73	0.85	23.58	<=30	Pass		
	50	0	22.61	0.85	23.46	<=30	Pass		
		1	0	23.40	0.85	24.25	<=30	Pass	
			25	23.36	0.85	24.21	<=30	Pass	
	49		23.38	0.85	24.23	<=30	Pass		
	25	0	22.72	0.85	23.57	<=30	Pass		
		13	22.71	0.85	23.56	<=30	Pass		
		25	22.73	0.85	23.58	<=30	Pass		
	50	0	22.69	0.85	23.54	<=30	Pass		
		1	0	23.74	0.85	24.59	<=30	Pass	
			25	23.73	0.85	24.58	<=30	Pass	
	49		23.79	0.85	24.64	<=30	Pass		
	25	0	22.74	0.85	23.59	<=30	Pass		
		13	22.74	0.85	23.59	<=30	Pass		
		25	22.78	0.85	23.63	<=30	Pass		
	50	0	22.72	0.85	23.57	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1717.5	1	0	24.03	0.85	24.88	<=30	Pass	
			38	24.06	0.85	24.91	<=30	Pass	
			74	24.00	0.85	24.85	<=30	Pass	
		36	0	23.55	0.85	24.40	<=30	Pass	
			18	23.65	0.85	24.50	<=30	Pass	
			39	23.60	0.85	24.45	<=30	Pass	
		75	0	23.61	0.85	24.46	<=30	Pass	
			1	0	24.08	0.85	24.93	<=30	Pass
				38	24.15	0.85	25.00	<=30	Pass
	74	24.09		0.85	24.94	<=30	Pass		
	36	0	23.57	0.85	24.42	<=30	Pass		
		18	23.67	0.85	24.52	<=30	Pass		
		39	23.71	0.85	24.56	<=30	Pass		
	75	0	23.67	0.85	24.52	<=30	Pass		
		1	0	24.07	0.85	24.92	<=30	Pass	
			38	24.15	0.85	25.00	<=30	Pass	
	74		24.17	0.85	25.02	<=30	Pass		
	36	0	23.62	0.85	24.47	<=30	Pass		
		18	23.66	0.85	24.51	<=30	Pass		
		39	23.67	0.85	24.52	<=30	Pass		
	75	0	23.67	0.85	24.52	<=30	Pass		
		1	0	23.49	0.85	24.34	<=30	Pass	
			38	23.51	0.85	24.36	<=30	Pass	
	74		23.47	0.85	24.32	<=30	Pass		
	36	0	22.57	0.85	23.42	<=30	Pass		
		18	22.62	0.85	23.47	<=30	Pass		

	1732.5	75	39	22.62	0.85	23.47	<=30	Pass	
			75	0	22.58	0.85	23.43	<=30	Pass
			1	0	23.26	0.85	24.11	<=30	Pass
		38		23.34	0.85	24.19	<=30	Pass	
		74		23.26	0.85	24.11	<=30	Pass	
		36	0	22.61	0.85	23.46	<=30	Pass	
	18		22.67	0.85	23.52	<=30	Pass		
	39		22.71	0.85	23.56	<=30	Pass		
	1747.5	75	0	22.68	0.85	23.53	<=30	Pass	
			1	0	23.65	0.85	24.50	<=30	Pass
				38	23.72	0.85	24.57	<=30	Pass
		74		23.72	0.85	24.57	<=30	Pass	
		36	0	22.64	0.85	23.49	<=30	Pass	
			18	22.67	0.85	23.52	<=30	Pass	
			39	22.69	0.85	23.54	<=30	Pass	
		75	0	22.65	0.85	23.50	<=30	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1720	1	0	24.06	0.85	24.91	<=30	Pass	
			50	24.18	0.85	25.03	<=30	Pass	
			99	24.10	0.85	24.95	<=30	Pass	
		50	0	23.54	0.85	24.39	<=30	Pass	
			25	23.66	0.85	24.51	<=30	Pass	
			50	23.66	0.85	24.51	<=30	Pass	
		100	0	23.60	0.85	24.45	<=30	Pass	
		1732.5	1	0	24.02	0.85	24.87	<=30	Pass
				50	24.18	0.85	25.03	<=30	Pass
	99			24.09	0.85	24.94	<=30	Pass	
	50		0	23.64	0.85	24.49	<=30	Pass	
			25	23.67	0.85	24.52	<=30	Pass	
			50	23.75	0.85	24.60	<=30	Pass	
	100		0	23.67	0.85	24.52	<=30	Pass	
	1745		1	0	24.07	0.85	24.92	<=30	Pass
				50	24.13	0.85	24.98	<=30	Pass
		99		24.16	0.85	25.01	<=30	Pass	
		50	0	23.62	0.85	24.47	<=30	Pass	
			25	23.73	0.85	24.58	<=30	Pass	
			50	23.66	0.85	24.51	<=30	Pass	
	100	0	23.63	0.85	24.48	<=30	Pass		
	16QAM	1720	1	0	23.63	0.85	24.48	<=30	Pass
				50	23.74	0.85	24.59	<=30	Pass
				99	23.66	0.85	24.51	<=30	Pass
50			0	22.53	0.85	23.38	<=30	Pass	
			25	22.62	0.85	23.47	<=30	Pass	
			50	22.63	0.85	23.48	<=30	Pass	
100			0	22.55	0.85	23.40	<=30	Pass	
1732.5			1	0	23.25	0.85	24.10	<=30	Pass
				50	23.42	0.85	24.27	<=30	Pass
		99		23.33	0.85	24.18	<=30	Pass	
		50	0	22.61	0.85	23.46	<=30	Pass	
			25	22.64	0.85	23.49	<=30	Pass	
			50	22.71	0.85	23.56	<=30	Pass	
		100	0	22.63	0.85	23.48	<=30	Pass	



	1745	1	0	23.61	0.85	24.46	<=30	Pass		
			50	23.73	0.85	24.58	<=30	Pass		
			99	23.70	0.85	24.55	<=30	Pass		
		50	0	22.61	0.85	23.46	<=30	Pass		
			25	22.68	0.85	23.53	<=30	Pass		
			50	22.63	0.85	23.48	<=30	Pass		
		100	0	22.63	0.85	23.48	<=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	4.435	0.0026	-2.5 to 2.5	Pass	
					3.85	-16.894	-0.0099	-2.5 to 2.5	Pass	
					4.43	5.836	0.0034	-2.5 to 2.5	Pass	
				-30	3.85	-14.520	-0.0085	-2.5 to 2.5	Pass	
					-20	3.85	-10.486	-0.0061	-2.5 to 2.5	Pass
						-10	3.85	-1.788	-0.0010	-2.5 to 2.5
				0	3.85	-19.913	-0.0116	-2.5 to 2.5	Pass	
					10	3.85	-6.452	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-5.236	-0.0031	-2.5 to 2.5	Pass	
	40	3.85	-11.759	-0.0069	-2.5 to 2.5	Pass				
	50	3.85	-7.725	-0.0045	-2.5 to 2.5	Pass				
	1732.5	6	0	20	3.27	10.257	0.0059	-2.5 to 2.5	Pass	
					3.85	19.698	0.0114	-2.5 to 2.5	Pass	
					4.43	11.659	0.0067	-2.5 to 2.5	Pass	
				-30	3.85	13.876	0.0080	-2.5 to 2.5	Pass	
					-20	3.85	0.257	0.0001	-2.5 to 2.5	Pass
						-10	3.85	15.750	0.0091	-2.5 to 2.5
				0	3.85	3.505	0.0020	-2.5 to 2.5	Pass	
					10	3.85	-2.074	-0.0012	-2.5 to 2.5	Pass
				30	3.85	0.744	0.0004	-2.5 to 2.5	Pass	
	40	3.85	16.108	0.0093	-2.5 to 2.5	Pass				
	50	3.85	2.832	0.0016	-2.5 to 2.5	Pass				
	1754.3	6	0	20	3.27	-1.044	-0.0006	-2.5 to 2.5	Pass	
					3.85	4.849	0.0028	-2.5 to 2.5	Pass	
					4.43	4.663	0.0027	-2.5 to 2.5	Pass	
				-30	3.85	-10.343	-0.0059	-2.5 to 2.5	Pass	
					-20	3.85	2.232	0.0013	-2.5 to 2.5	Pass
-10						3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
0				3.85	0.515	0.0003	-2.5 to 2.5	Pass		
				10	3.85	4.392	0.0025	-2.5 to 2.5	Pass	
30				3.85	9.727	0.0055	-2.5 to 2.5	Pass		
40	3.85	10.614	0.0061	-2.5 to 2.5	Pass					
50	3.85	-1.187	-0.0007	-2.5 to 2.5	Pass					
16QAM	1710.7	6	0	20	3.27	8.726	0.0051	-2.5 to 2.5	Pass	
					3.85	2.818	0.0016	-2.5 to 2.5	Pass	
					4.43	5.665	0.0033	-2.5 to 2.5	Pass	
				-30	3.85	-5.736	-0.0034	-2.5 to 2.5	Pass	
					-20	3.85	6.065	0.0035	-2.5 to 2.5	Pass
						-10	3.85	-9.899	-0.0058	-2.5 to 2.5
				0	3.85	-0.644	-0.0004	-2.5 to 2.5	Pass	
					10	3.85	-8.039	-0.0047	-2.5 to 2.5	Pass
				30	3.85	10.600	0.0062	-2.5 to 2.5	Pass	
	40	3.85	7.524	0.0044	-2.5 to 2.5	Pass				
	50	3.85	15.049	0.0088	-2.5 to 2.5	Pass				
	1732.5	6	0	20	3.27	5.965	0.0034	-2.5 to 2.5	Pass	
					3.85	2.489	0.0014	-2.5 to 2.5	Pass	
					4.43	10.915	0.0063	-2.5 to 2.5	Pass	
				-30	3.85	-1.659	-0.0010	-2.5 to 2.5	Pass	
-20					3.85	-2.031	-0.0012	-2.5 to 2.5	Pass	

	1754.3	6	0	-10	3.85	12.875	0.0074	-2.5 to 2.5	Pass	
				0	3.85	-11.559	-0.0067	-2.5 to 2.5	Pass	
				10	3.85	8.025	0.0046	-2.5 to 2.5	Pass	
				30	3.85	-10.171	-0.0059	-2.5 to 2.5	Pass	
				40	3.85	11.659	0.0067	-2.5 to 2.5	Pass	
				50	3.85	-6.809	-0.0039	-2.5 to 2.5	Pass	
		1754.3	6	0	20	3.27	4.106	0.0023	-2.5 to 2.5	Pass
						3.85	4.034	0.0023	-2.5 to 2.5	Pass
						4.43	10.486	0.0060	-2.5 to 2.5	Pass
					-30	3.85	1.101	0.0006	-2.5 to 2.5	Pass
					-20	3.85	10.171	0.0058	-2.5 to 2.5	Pass
					-10	3.85	-14.749	-0.0084	-2.5 to 2.5	Pass
					0	3.85	-9.570	-0.0055	-2.5 to 2.5	Pass
					10	3.85	8.183	0.0047	-2.5 to 2.5	Pass
					30	3.85	0.744	0.0004	-2.5 to 2.5	Pass
					40	3.85	0.215	0.0001	-2.5 to 2.5	Pass
					50	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1711.5	15	0	20	3.27	4.349	0.0025	-2.5 to 2.5	Pass			
					3.85	7.138	0.0042	-2.5 to 2.5	Pass			
					4.43	-2.804	-0.0016	-2.5 to 2.5	Pass			
				-30	3.85	4.892	0.0029	-2.5 to 2.5	Pass			
				-20	3.85	-5.894	-0.0034	-2.5 to 2.5	Pass			
				-10	3.85	8.640	0.0050	-2.5 to 2.5	Pass			
				0	3.85	0.873	0.0005	-2.5 to 2.5	Pass			
				10	3.85	1.960	0.0011	-2.5 to 2.5	Pass			
				30	3.85	10.829	0.0063	-2.5 to 2.5	Pass			
				40	3.85	7.753	0.0045	-2.5 to 2.5	Pass			
				50	3.85	1.831	0.0011	-2.5 to 2.5	Pass			
				1732.5	15	0	20	3.27	-4.220	-0.0024	-2.5 to 2.5	Pass
								3.85	-3.862	-0.0022	-2.5 to 2.5	Pass
								4.43	3.762	0.0022	-2.5 to 2.5	Pass
							-30	3.85	6.938	0.0040	-2.5 to 2.5	Pass
	-20	3.85	-0.157				-0.0001	-2.5 to 2.5	Pass			
	-10	3.85	-3.648				-0.0021	-2.5 to 2.5	Pass			
	0	3.85	-1.431				-0.0008	-2.5 to 2.5	Pass			
	10	3.85	8.039				0.0046	-2.5 to 2.5	Pass			
	30	3.85	4.849				0.0028	-2.5 to 2.5	Pass			
	40	3.85	-3.147				-0.0018	-2.5 to 2.5	Pass			
	50	3.85	13.847				0.0080	-2.5 to 2.5	Pass			
	1753.5	15	0				20	3.27	10.700	0.0061	-2.5 to 2.5	Pass
								3.85	-8.483	-0.0048	-2.5 to 2.5	Pass
								4.43	18.253	0.0104	-2.5 to 2.5	Pass
							-30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	13.475	0.0077	-2.5 to 2.5	Pass			
				-10	3.85	4.292	0.0024	-2.5 to 2.5	Pass			
				0	3.85	4.106	0.0023	-2.5 to 2.5	Pass			
				10	3.85	10.629	0.0061	-2.5 to 2.5	Pass			
30				3.85	-4.377	-0.0025	-2.5 to 2.5	Pass				
40				3.85	-8.941	-0.0051	-2.5 to 2.5	Pass				
50				3.85	14.377	0.0082	-2.5 to 2.5	Pass				
16QAM				1711.5	15	0	20	3.27	-5.193	-0.0030	-2.5 to 2.5	Pass
	3.85	-10.557	-0.0062					-2.5 to 2.5	Pass			

	1732.5	15	0		4.43	-1.101	-0.0006	-2.5 to 2.5	Pass	
				-30	3.85	-6.495	-0.0038	-2.5 to 2.5	Pass	
				-20	3.85	20.528	0.0120	-2.5 to 2.5	Pass	
				-10	3.85	6.580	0.0038	-2.5 to 2.5	Pass	
				0	3.85	0.744	0.0004	-2.5 to 2.5	Pass	
				10	3.85	-7.482	-0.0044	-2.5 to 2.5	Pass	
				30	3.85	12.045	0.0070	-2.5 to 2.5	Pass	
				40	3.85	9.270	0.0054	-2.5 to 2.5	Pass	
	50	3.85	8.454	0.0049	-2.5 to 2.5	Pass				
	1732.5	15	0	20		3.27	-4.578	-0.0026	-2.5 to 2.5	Pass
						3.85	3.519	0.0020	-2.5 to 2.5	Pass
						4.43	1.373	0.0008	-2.5 to 2.5	Pass
					-30	3.85	1.245	0.0007	-2.5 to 2.5	Pass
					-20	3.85	-1.416	-0.0008	-2.5 to 2.5	Pass
					-10	3.85	1.488	0.0009	-2.5 to 2.5	Pass
					0	3.85	8.655	0.0050	-2.5 to 2.5	Pass
					10	3.85	12.832	0.0074	-2.5 to 2.5	Pass
					30	3.85	-1.345	-0.0008	-2.5 to 2.5	Pass
					40	3.85	-1.731	-0.0010	-2.5 to 2.5	Pass
					50	3.85	8.969	0.0052	-2.5 to 2.5	Pass
				1753.5	15	0	20		3.27	-1.402
		3.85	12.860					0.0073	-2.5 to 2.5	Pass
		4.43	6.194					0.0035	-2.5 to 2.5	Pass
		-30	3.85				4.292	0.0024	-2.5 to 2.5	Pass
		-20	3.85				2.160	0.0012	-2.5 to 2.5	Pass
		-10	3.85				-0.129	-0.0001	-2.5 to 2.5	Pass
		0	3.85				4.592	0.0026	-2.5 to 2.5	Pass
		10	3.85				2.804	0.0016	-2.5 to 2.5	Pass
	30	3.85	-8.798				-0.0050	-2.5 to 2.5	Pass	
	40	3.85	-0.014				0.0000	-2.5 to 2.5	Pass	
	50	3.85	-14.205				-0.0081	-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	6.480	0.0038	-2.5 to 2.5	Pass
						3.85	-6.709	-0.0039	-2.5 to 2.5	Pass
						4.43	-0.758	-0.0004	-2.5 to 2.5	Pass
					-30	3.85	-2.003	-0.0012	-2.5 to 2.5	Pass
					-20	3.85	5.822	0.0034	-2.5 to 2.5	Pass
					-10	3.85	5.364	0.0031	-2.5 to 2.5	Pass
					0	3.85	4.077	0.0024	-2.5 to 2.5	Pass
					10	3.85	8.526	0.0050	-2.5 to 2.5	Pass
					30	3.85	-6.194	-0.0036	-2.5 to 2.5	Pass
					40	3.85	-4.563	-0.0027	-2.5 to 2.5	Pass
		50	3.85	4.449	0.0026	-2.5 to 2.5	Pass			
	1732.5	25	0	20		3.27	5.264	0.0030	-2.5 to 2.5	Pass
						3.85	3.920	0.0023	-2.5 to 2.5	Pass
						4.43	5.021	0.0029	-2.5 to 2.5	Pass
					-30	3.85	-2.117	-0.0012	-2.5 to 2.5	Pass
					-20	3.85	0.286	0.0002	-2.5 to 2.5	Pass
					-10	3.85	10.443	0.0060	-2.5 to 2.5	Pass
					0	3.85	9.742	0.0056	-2.5 to 2.5	Pass
					10	3.85	0.629	0.0004	-2.5 to 2.5	Pass
					30	3.85	6.008	0.0035	-2.5 to 2.5	Pass
				40	3.85	13.046	0.0075	-2.5 to 2.5	Pass	

	1752.5	25	0	50	3.85	8.912	0.0051	-2.5 to 2.5	Pass
				20	3.27	1.445	0.0008	-2.5 to 2.5	Pass
					3.85	1.302	0.0007	-2.5 to 2.5	Pass
					4.43	-0.458	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-9.384	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	4.778	0.0027	-2.5 to 2.5	Pass
				-10	3.85	2.604	0.0015	-2.5 to 2.5	Pass
				0	3.85	3.405	0.0019	-2.5 to 2.5	Pass
				10	3.85	-2.975	-0.0017	-2.5 to 2.5	Pass
				30	3.85	3.304	0.0019	-2.5 to 2.5	Pass
40	3.85	0.257	0.0001	-2.5 to 2.5	Pass				
50	3.85	-7.796	-0.0044	-2.5 to 2.5	Pass				
16QAM	1712.5	25	0	20	3.27	-1.817	-0.0011	-2.5 to 2.5	Pass
					3.85	17.409	0.0102	-2.5 to 2.5	Pass
					4.43	-6.037	-0.0035	-2.5 to 2.5	Pass
				-30	3.85	-4.821	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	6.309	0.0037	-2.5 to 2.5	Pass
				-10	3.85	-6.495	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0001	-2.5 to 2.5	Pass
				30	3.85	3.834	0.0022	-2.5 to 2.5	Pass
				40	3.85	3.147	0.0018	-2.5 to 2.5	Pass
	50	3.85	5.536	0.0032	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.27	8.311	0.0048	-2.5 to 2.5	Pass
					3.85	11.544	0.0067	-2.5 to 2.5	Pass
					4.43	-4.048	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	7.381	0.0043	-2.5 to 2.5	Pass
				-20	3.85	-9.770	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-3.319	-0.0019	-2.5 to 2.5	Pass
				0	3.85	2.847	0.0016	-2.5 to 2.5	Pass
				10	3.85	-8.454	-0.0049	-2.5 to 2.5	Pass
				30	3.85	0.916	0.0005	-2.5 to 2.5	Pass
40				3.85	2.532	0.0015	-2.5 to 2.5	Pass	
50	3.85	-7.482	-0.0043	-2.5 to 2.5	Pass				
1752.5	25	0	20	3.27	1.073	0.0006	-2.5 to 2.5	Pass	
				3.85	4.706	0.0027	-2.5 to 2.5	Pass	
				4.43	-0.615	-0.0004	-2.5 to 2.5	Pass	
			-30	3.85	-0.215	-0.0001	-2.5 to 2.5	Pass	
			-20	3.85	-3.533	-0.0020	-2.5 to 2.5	Pass	
			-10	3.85	7.768	0.0044	-2.5 to 2.5	Pass	
			0	3.85	3.319	0.0019	-2.5 to 2.5	Pass	
			10	3.85	-3.777	-0.0022	-2.5 to 2.5	Pass	
			30	3.85	3.433	0.0020	-2.5 to 2.5	Pass	
			40	3.85	3.133	0.0018	-2.5 to 2.5	Pass	
50	3.85	4.292	0.0024	-2.5 to 2.5	Pass				

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	3.519	0.0021	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.300	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	4.420	0.0026	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-4.120	-0.0024	-2.5 to 2.5	Pass
				0	3.85	-4.377	-0.0026	-2.5 to 2.5	Pass

				10	3.85	3.362	0.0020	-2.5 to 2.5	Pass	
				30	3.85	-0.544	-0.0003	-2.5 to 2.5	Pass	
				40	3.85	0.186	0.0001	-2.5 to 2.5	Pass	
				50	3.85	2.975	0.0017	-2.5 to 2.5	Pass	
	1732.5	50	0	20	3.27	9.785	0.0056	-2.5 to 2.5	Pass	
					3.85	-0.801	-0.0005	-2.5 to 2.5	Pass	
					4.43	8.712	0.0050	-2.5 to 2.5	Pass	
				-30	3.85	5.622	0.0032	-2.5 to 2.5	Pass	
				-20	3.85	1.316	0.0008	-2.5 to 2.5	Pass	
				-10	3.85	6.280	0.0036	-2.5 to 2.5	Pass	
				0	3.85	2.389	0.0014	-2.5 to 2.5	Pass	
				10	3.85	6.251	0.0036	-2.5 to 2.5	Pass	
				30	3.85	2.174	0.0013	-2.5 to 2.5	Pass	
				40	3.85	-1.802	-0.0010	-2.5 to 2.5	Pass	
				50	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass	
				1750	50	0	20	3.27	-2.203	-0.0013
	3.85	1.817	0.0010					-2.5 to 2.5	Pass	
	4.43	5.651	0.0032					-2.5 to 2.5	Pass	
	-30	3.85	1.717				0.0010	-2.5 to 2.5	Pass	
	-20	3.85	1.574				0.0009	-2.5 to 2.5	Pass	
	-10	3.85	2.646				0.0015	-2.5 to 2.5	Pass	
	0	3.85	0.172				0.0001	-2.5 to 2.5	Pass	
	10	3.85	0.887				0.0005	-2.5 to 2.5	Pass	
	30	3.85	1.330				0.0008	-2.5 to 2.5	Pass	
	40	3.85	-2.117				-0.0012	-2.5 to 2.5	Pass	
	50	3.85	1.116				0.0006	-2.5 to 2.5	Pass	
	16QAM	1715	50				0	20	3.27	4.435
				3.85	5.035	0.0029			-2.5 to 2.5	Pass
				4.43	4.020	0.0023			-2.5 to 2.5	Pass
				-30	3.85	4.478		0.0026	-2.5 to 2.5	Pass
-20				3.85	10.314	0.0060		-2.5 to 2.5	Pass	
-10				3.85	3.147	0.0018		-2.5 to 2.5	Pass	
0				3.85	4.120	0.0024		-2.5 to 2.5	Pass	
10				3.85	0.315	0.0002		-2.5 to 2.5	Pass	
30				3.85	4.835	0.0028		-2.5 to 2.5	Pass	
40				3.85	2.418	0.0014		-2.5 to 2.5	Pass	
50				3.85	7.210	0.0042		-2.5 to 2.5	Pass	
1732.5				50	0	20		3.27	-3.920	-0.0023
		3.85	-3.376				-0.0019	-2.5 to 2.5	Pass	
		4.43	5.522				0.0032	-2.5 to 2.5	Pass	
		-30	3.85			-1.101	-0.0006	-2.5 to 2.5	Pass	
		-20	3.85			1.974	0.0011	-2.5 to 2.5	Pass	
		-10	3.85			5.293	0.0031	-2.5 to 2.5	Pass	
		0	3.85			2.832	0.0016	-2.5 to 2.5	Pass	
		10	3.85			-0.372	-0.0002	-2.5 to 2.5	Pass	
		30	3.85			9.170	0.0053	-2.5 to 2.5	Pass	
		40	3.85			2.332	0.0013	-2.5 to 2.5	Pass	
		50	3.85			3.276	0.0019	-2.5 to 2.5	Pass	
		1750	50			0	20	3.27	2.460	0.0014
3.85				4.549	0.0026			-2.5 to 2.5	Pass	
4.43				0.143	0.0001			-2.5 to 2.5	Pass	
-30				3.85	1.388		0.0008	-2.5 to 2.5	Pass	
-20				3.85	2.346		0.0013	-2.5 to 2.5	Pass	
-10				3.85	2.675		0.0015	-2.5 to 2.5	Pass	
0				3.85	3.633		0.0021	-2.5 to 2.5	Pass	
10				3.85	3.648		0.0021	-2.5 to 2.5	Pass	
30	3.85			1.101	0.0006		-2.5 to 2.5	Pass		
40	3.85			-0.772	-0.0004		-2.5 to 2.5	Pass		
50	3.85			0.772	0.0004		-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	4.377	0.0025	-2.5 to 2.5	Pass	
					3.85	1.545	0.0009	-2.5 to 2.5	Pass	
					4.43	3.033	0.0018	-2.5 to 2.5	Pass	
				-30	3.85	4.907	0.0029	-2.5 to 2.5	Pass	
					-20	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
						-10	3.85	3.262	0.0019	-2.5 to 2.5
				0	3.85	8.354	0.0049	-2.5 to 2.5	Pass	
				10	3.85	0.343	0.0002	-2.5 to 2.5	Pass	
				30	3.85	8.883	0.0052	-2.5 to 2.5	Pass	
	40	3.85	2.861	0.0017	-2.5 to 2.5	Pass				
	50	3.85	1.874	0.0011	-2.5 to 2.5	Pass				
	1732.5	75	0	20	3.27	5.193	0.0030	-2.5 to 2.5	Pass	
					3.85	2.475	0.0014	-2.5 to 2.5	Pass	
					4.43	3.262	0.0019	-2.5 to 2.5	Pass	
				-30	3.85	2.689	0.0016	-2.5 to 2.5	Pass	
					-20	3.85	3.476	0.0020	-2.5 to 2.5	Pass
						-10	3.85	5.293	0.0031	-2.5 to 2.5
				0	3.85	1.731	0.0010	-2.5 to 2.5	Pass	
				10	3.85	2.246	0.0013	-2.5 to 2.5	Pass	
				30	3.85	3.648	0.0021	-2.5 to 2.5	Pass	
	40	3.85	7.281	0.0042	-2.5 to 2.5	Pass				
	50	3.85	3.033	0.0018	-2.5 to 2.5	Pass				
	1747.5	75	0	20	3.27	1.602	0.0009	-2.5 to 2.5	Pass	
					3.85	5.107	0.0029	-2.5 to 2.5	Pass	
					4.43	2.661	0.0015	-2.5 to 2.5	Pass	
				-30	3.85	6.909	0.0040	-2.5 to 2.5	Pass	
					-20	3.85	8.311	0.0048	-2.5 to 2.5	Pass
-10						3.85	3.204	0.0018	-2.5 to 2.5	Pass
0				3.85	4.363	0.0025	-2.5 to 2.5	Pass		
10				3.85	4.964	0.0028	-2.5 to 2.5	Pass		
30				3.85	5.665	0.0032	-2.5 to 2.5	Pass		
40	3.85	2.103	0.0012	-2.5 to 2.5	Pass					
50	3.85	4.506	0.0026	-2.5 to 2.5	Pass					
16QAM	1717.5	75	0	20	3.27	2.418	0.0014	-2.5 to 2.5	Pass	
					3.85	3.734	0.0022	-2.5 to 2.5	Pass	
					4.43	1.545	0.0009	-2.5 to 2.5	Pass	
				-30	3.85	5.336	0.0031	-2.5 to 2.5	Pass	
					-20	3.85	4.292	0.0025	-2.5 to 2.5	Pass
						-10	3.85	1.717	0.0010	-2.5 to 2.5
				0	3.85	3.362	0.0020	-2.5 to 2.5	Pass	
				10	3.85	-0.830	-0.0005	-2.5 to 2.5	Pass	
				30	3.85	5.865	0.0034	-2.5 to 2.5	Pass	
	40	3.85	7.439	0.0043	-2.5 to 2.5	Pass				
	50	3.85	6.866	0.0040	-2.5 to 2.5	Pass				
	1732.5	75	0	20	3.27	7.439	0.0043	-2.5 to 2.5	Pass	
					3.85	-0.114	-0.0001	-2.5 to 2.5	Pass	
					4.43	1.688	0.0010	-2.5 to 2.5	Pass	
				-30	3.85	7.138	0.0041	-2.5 to 2.5	Pass	
					-20	3.85	-1.602	-0.0009	-2.5 to 2.5	Pass
						-10	3.85	0.029	0.0000	-2.5 to 2.5
				0	3.85	-1.144	-0.0007	-2.5 to 2.5	Pass	
10				3.85	1.287	0.0007	-2.5 to 2.5	Pass		

	1747.5	75	0	30	3.85	3.905	0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.388	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-2.775	-0.0016	-2.5 to 2.5	Pass
				20	3.27	4.535	0.0026	-2.5 to 2.5	Pass
					3.85	5.722	0.0033	-2.5 to 2.5	Pass
					4.43	-1.874	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	4.206	0.0024	-2.5 to 2.5	Pass
				-20	3.85	2.260	0.0013	-2.5 to 2.5	Pass
				-10	3.85	5.808	0.0033	-2.5 to 2.5	Pass
				0	3.85	4.878	0.0028	-2.5 to 2.5	Pass
				10	3.85	4.921	0.0028	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				40	3.85	1.731	0.0010	-2.5 to 2.5	Pass
				50	3.85	4.478	0.0026	-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	-2.861	-0.0017	-2.5 to 2.5	Pass
					3.85	-4.578	-0.0027	-2.5 to 2.5	Pass
					4.43	-0.043	0.0000	-2.5 to 2.5	Pass
				-30	3.85	0.944	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.747	0.0016	-2.5 to 2.5	Pass
				-10	3.85	-3.004	-0.0017	-2.5 to 2.5	Pass
				0	3.85	1.888	0.0011	-2.5 to 2.5	Pass
				10	3.85	2.346	0.0014	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0023	-2.5 to 2.5	Pass
				50	3.85	6.280	0.0037	-2.5 to 2.5	Pass
				1732.5	100	0	20	3.27	6.309
	3.85	6.108	0.0035					-2.5 to 2.5	Pass
	4.43	4.277	0.0025					-2.5 to 2.5	Pass
	-30	3.85	6.251				0.0036	-2.5 to 2.5	Pass
	-20	3.85	0.114				0.0001	-2.5 to 2.5	Pass
	-10	3.85	-1.831				-0.0011	-2.5 to 2.5	Pass
	0	3.85	0.315				0.0002	-2.5 to 2.5	Pass
	10	3.85	5.479				0.0032	-2.5 to 2.5	Pass
	30	3.85	1.030				0.0006	-2.5 to 2.5	Pass
	40	3.85	-0.587				-0.0003	-2.5 to 2.5	Pass
	50	3.85	4.835				0.0028	-2.5 to 2.5	Pass
	1745	100	0				20	3.27	2.933
				3.85	2.875	0.0016		-2.5 to 2.5	Pass
				4.43	1.545	0.0009		-2.5 to 2.5	Pass
				-30	3.85	1.087	0.0006	-2.5 to 2.5	Pass
				-20	3.85	2.475	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.302	0.0007	-2.5 to 2.5	Pass
				0	3.85	3.691	0.0021	-2.5 to 2.5	Pass
				10	3.85	0.744	0.0004	-2.5 to 2.5	Pass
30				3.85	0.658	0.0004	-2.5 to 2.5	Pass	
40				3.85	2.747	0.0016	-2.5 to 2.5	Pass	
50				3.85	0.114	0.0001	-2.5 to 2.5	Pass	
16QAM				1720	100	0	20	3.27	3.819
	3.85	4.964	0.0029					-2.5 to 2.5	Pass
	4.43	1.688	0.0010					-2.5 to 2.5	Pass
	-30	3.85	1.459				0.0008	-2.5 to 2.5	Pass
	-20	3.85	-1.416				-0.0008	-2.5 to 2.5	Pass

				-10	3.85	-1.116	-0.0006	-2.5 to 2.5	Pass
				0	3.85	1.488	0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-4.706	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-5.178	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0003	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-1.702	-0.0010	-2.5 to 2.5	Pass
					3.85	1.016	0.0006	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-3.405	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	2.804	0.0016	-2.5 to 2.5	Pass
				-10	3.85	5.035	0.0029	-2.5 to 2.5	Pass
				0	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				10	3.85	-2.646	-0.0015	-2.5 to 2.5	Pass
				30	3.85	3.004	0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.431	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.300	-0.0002	-2.5 to 2.5	Pass
				1745	100	0	20	3.27	-0.687
	3.85	-3.519	-0.0020					-2.5 to 2.5	Pass
	4.43	0.443	0.0003					-2.5 to 2.5	Pass
	-30	3.85	3.562				0.0020	-2.5 to 2.5	Pass
	-20	3.85	0.744				0.0004	-2.5 to 2.5	Pass
	-10	3.85	4.034				0.0023	-2.5 to 2.5	Pass
	0	3.85	-2.503				-0.0014	-2.5 to 2.5	Pass
	10	3.85	8.068				0.0046	-2.5 to 2.5	Pass
	30	3.85	7.167				0.0041	-2.5 to 2.5	Pass
	40	3.85	6.380				0.0037	-2.5 to 2.5	Pass
	50	3.85	3.762				0.0022	-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 / NTV						
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

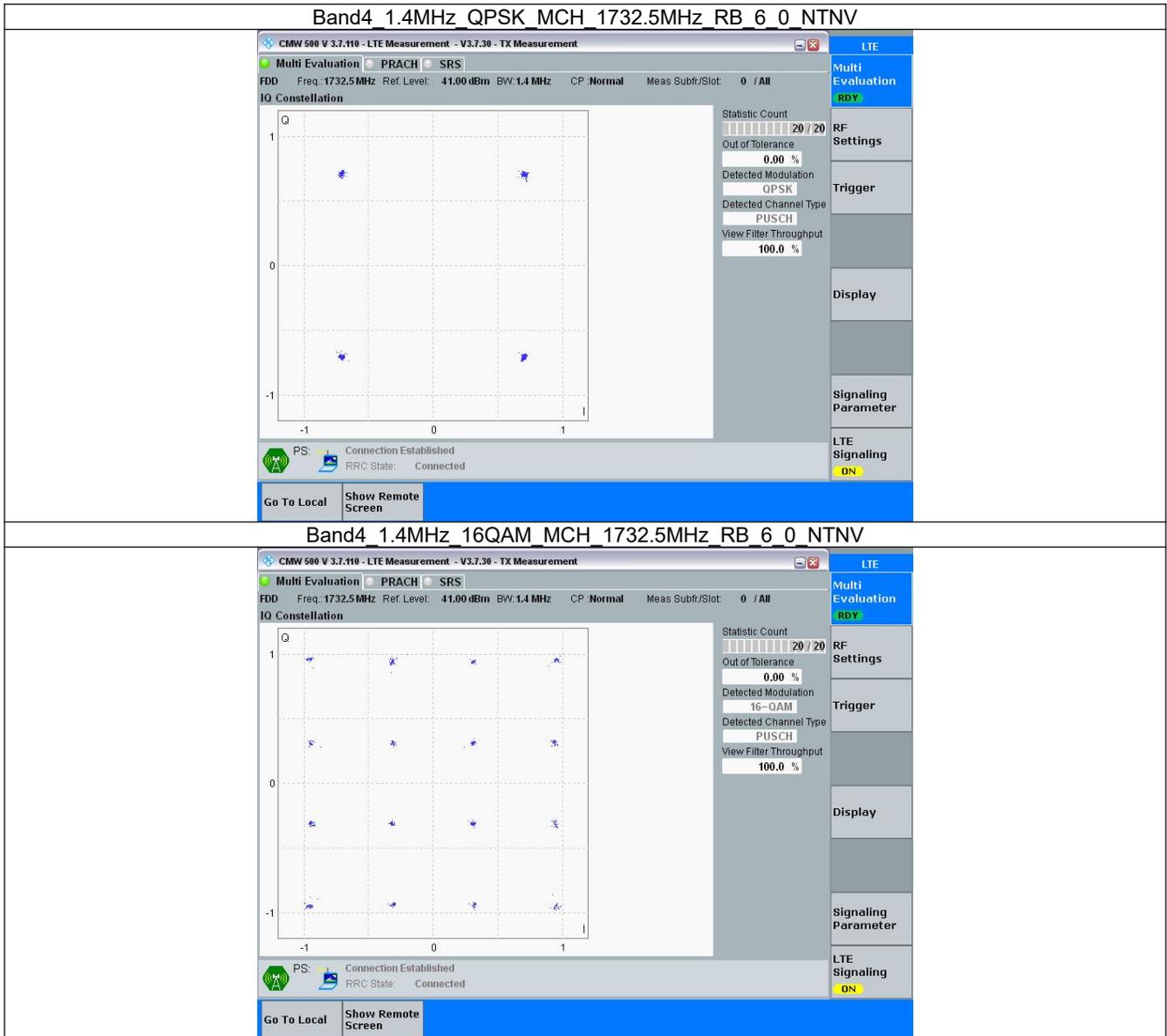
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

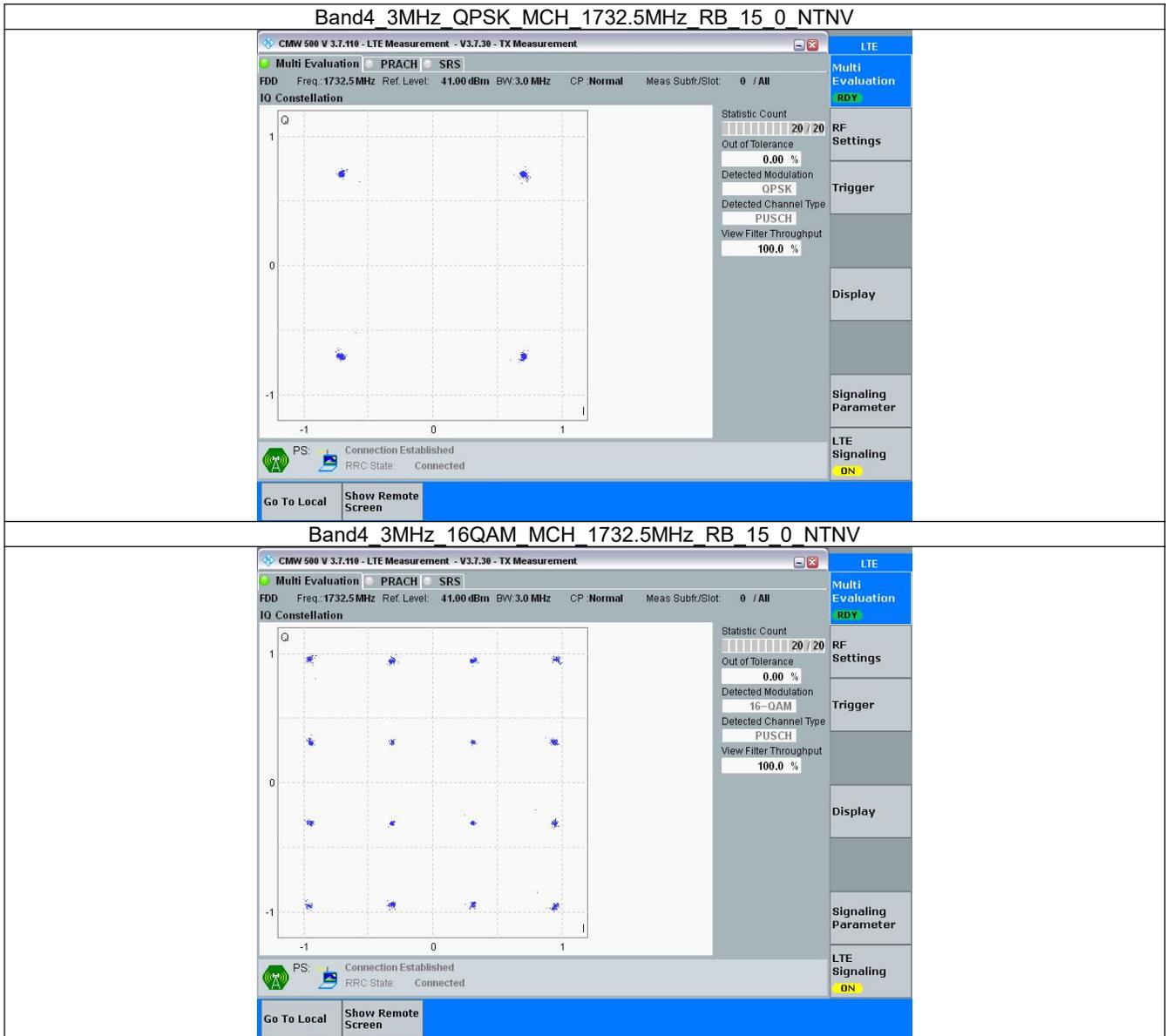
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Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	Refer To Test Graph		Pass
16QAM	1732.5	100	0	Refer To Test Graph		Pass

3.2 Test Graph

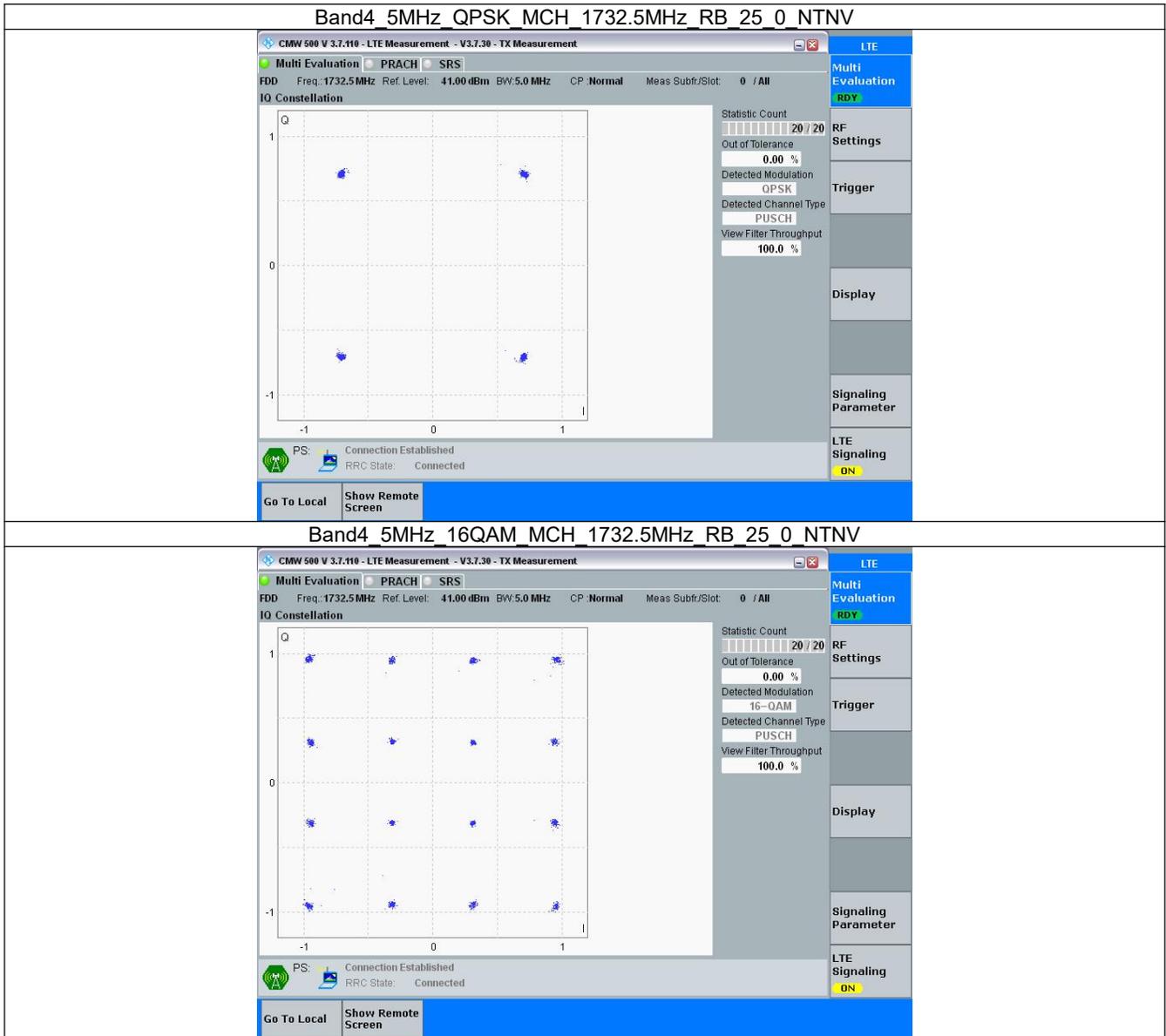
3.2.1 B4_1.4MHz



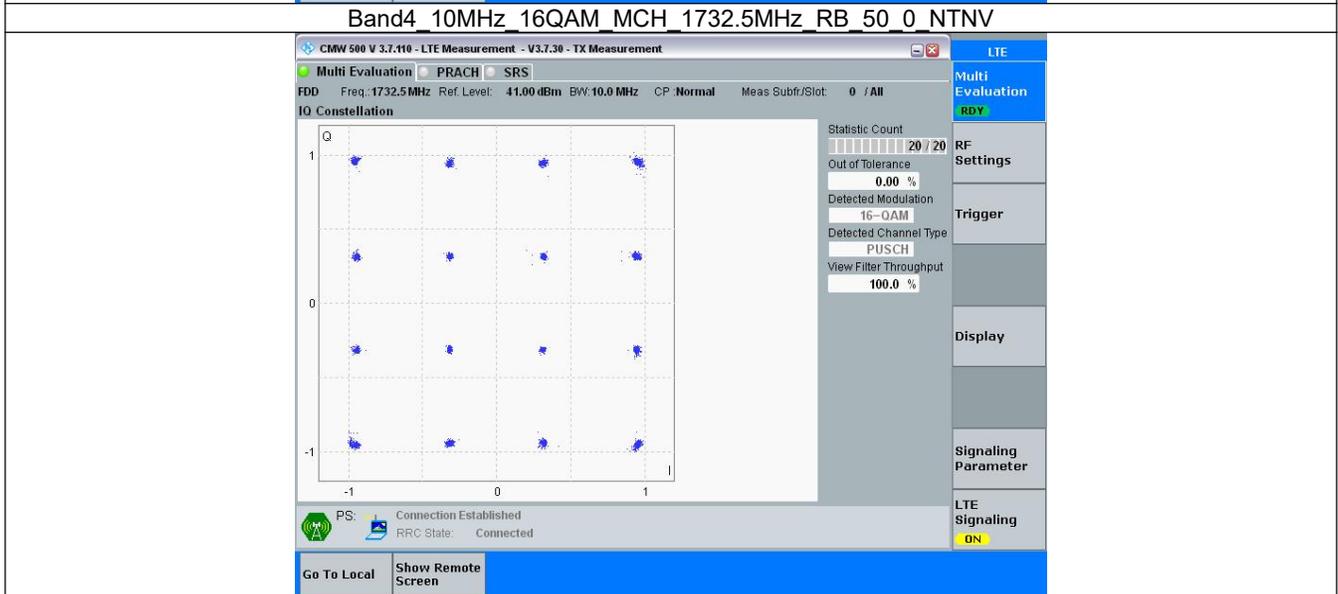
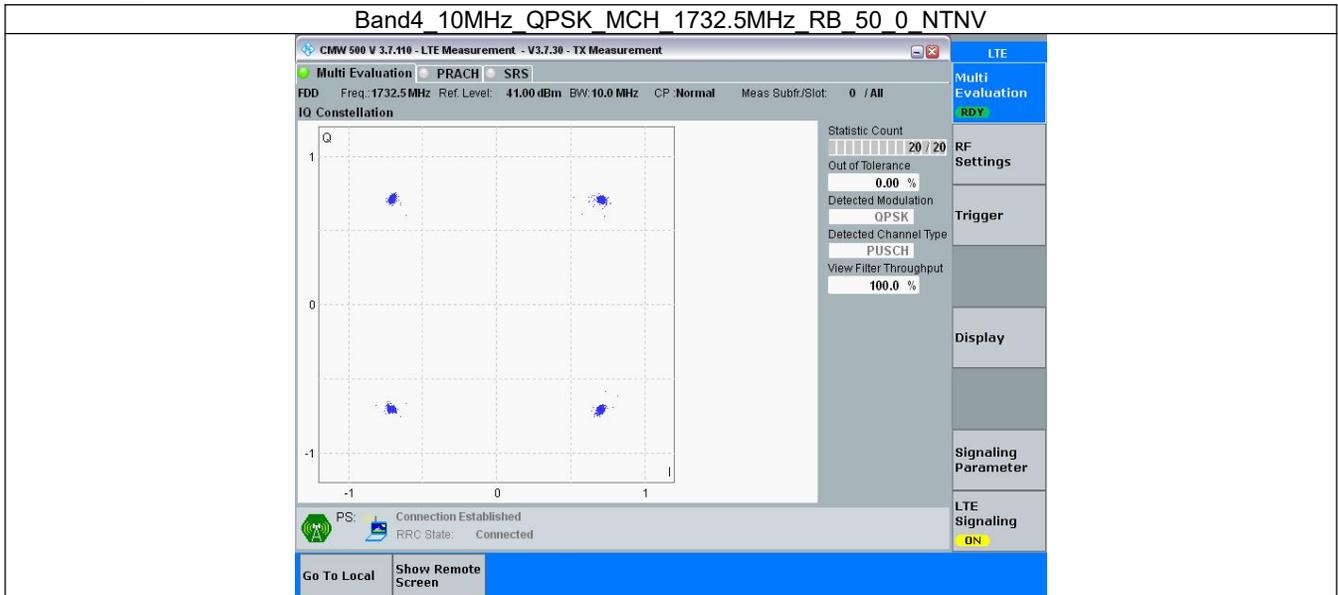
3.2.2 B4_3MHz



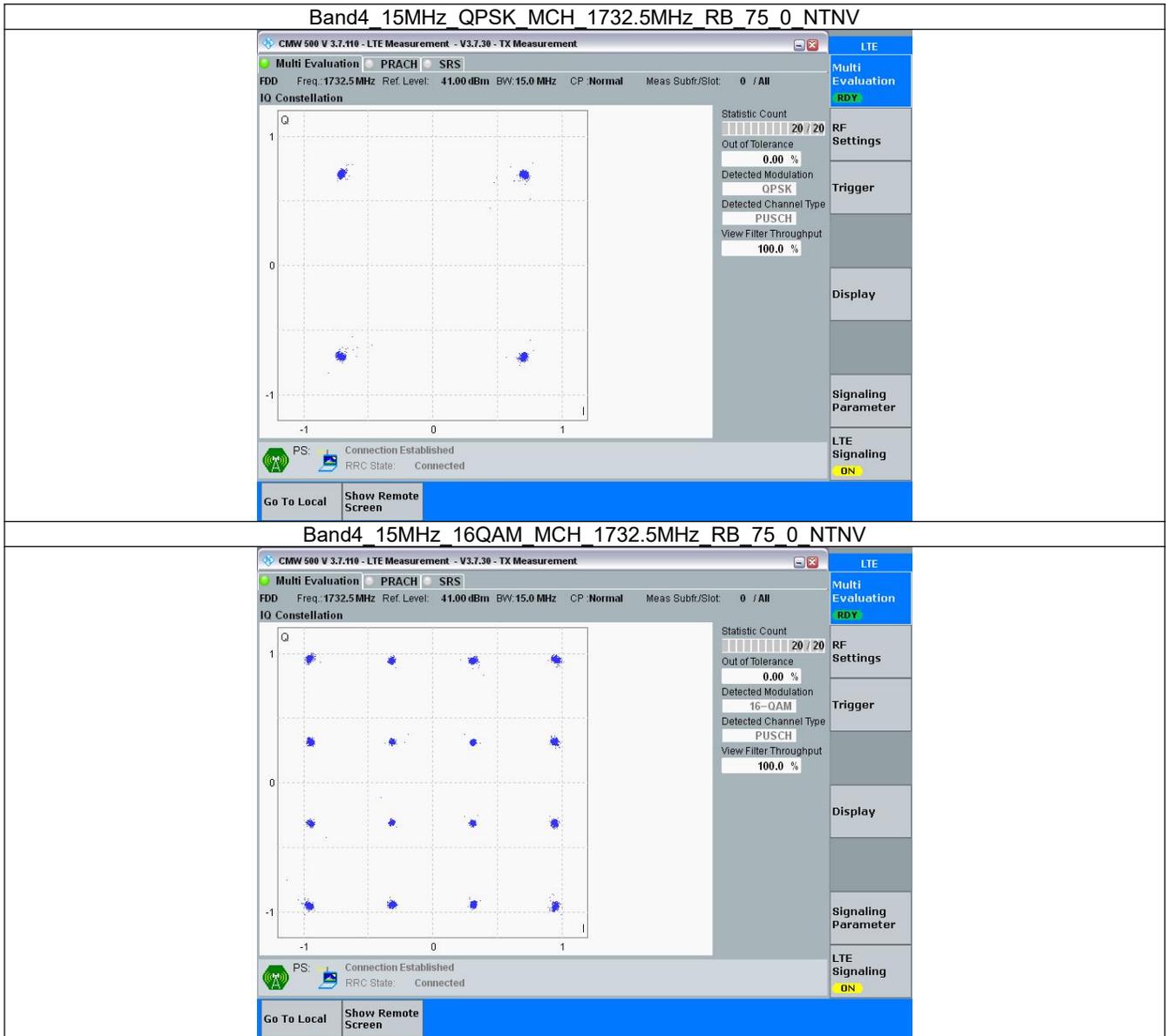
3.2.3 B4_5MHz



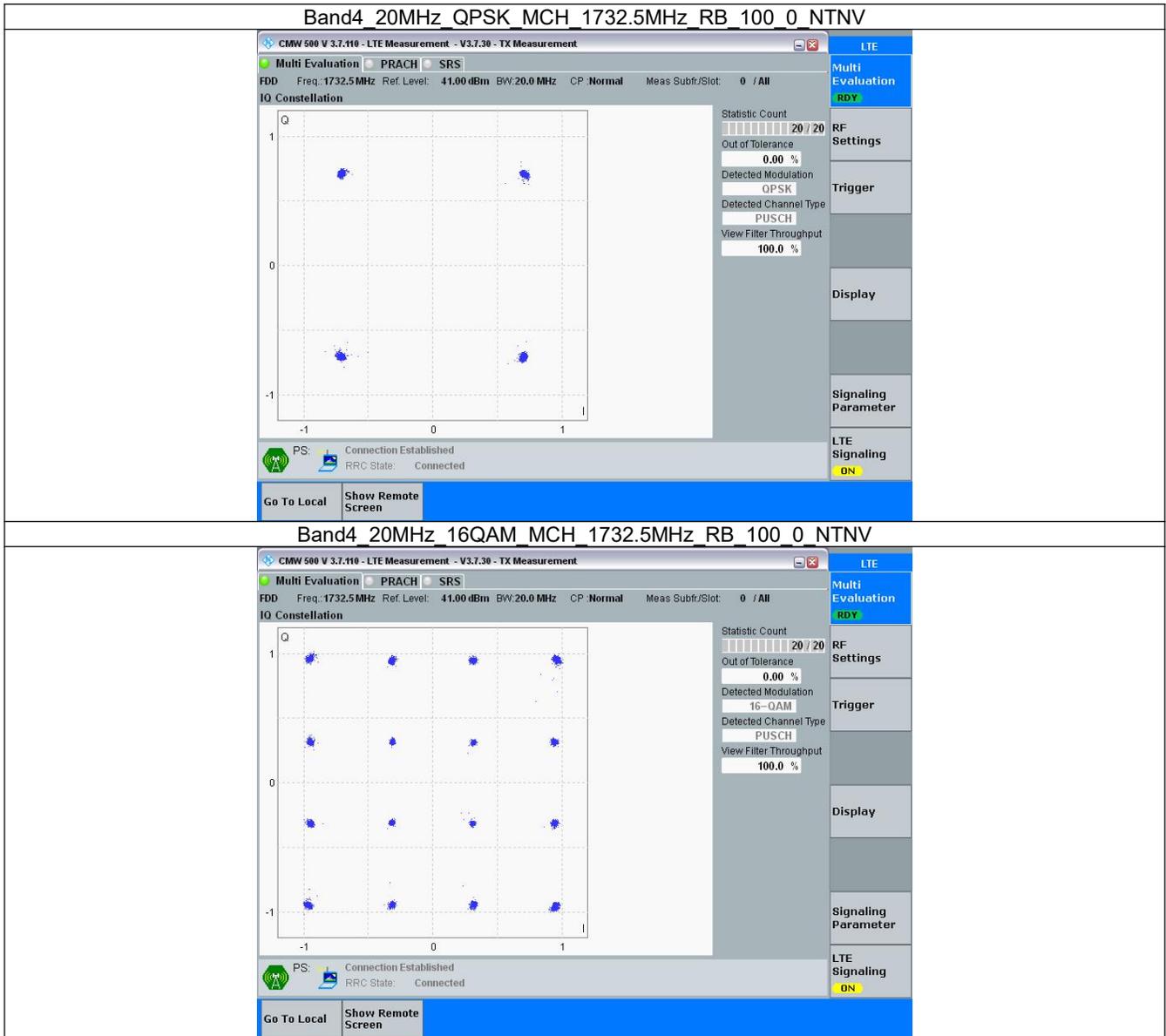
3.2.4 B4_10MHz



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	1.110	/	Pass
		1732.5	6	0	1.102	/	Pass
		1754.3	6	0	1.112	/	Pass
	16QAM	1710.7	6	0	1.115	/	Pass
		1732.5	6	0	1.101	/	Pass
		1754.3	6	0	1.106	/	Pass
3	QPSK	1711.5	15	0	2.731	/	Pass
		1732.5	15	0	2.725	/	Pass
		1753.5	15	0	2.735	/	Pass
	16QAM	1711.5	15	0	2.729	/	Pass
		1732.5	15	0	2.733	/	Pass
		1753.5	15	0	2.721	/	Pass
5	QPSK	1712.5	25	0	4.543	/	Pass
		1732.5	25	0	4.551	/	Pass
		1752.5	25	0	4.545	/	Pass
	16QAM	1712.5	25	0	4.559	/	Pass
		1732.5	25	0	4.565	/	Pass
		1752.5	25	0	4.533	/	Pass
10	QPSK	1715	50	0	9.056	/	Pass
		1732.5	50	0	9.043	/	Pass
		1750	50	0	9.065	/	Pass
	16QAM	1715	50	0	9.022	/	Pass
		1732.5	50	0	9.027	/	Pass
		1750	50	0	9.051	/	Pass
15	QPSK	1717.5	75	0	13.575	/	Pass
		1732.5	75	0	13.574	/	Pass
		1747.5	75	0	13.591	/	Pass
	16QAM	1717.5	75	0	13.578	/	Pass
		1732.5	75	0	13.587	/	Pass
		1747.5	75	0	13.603	/	Pass
20	QPSK	1720	100	0	18.093	/	Pass
		1732.5	100	0	18.067	/	Pass
		1745	100	0	18.087	/	Pass
	16QAM	1720	100	0	18.122	/	Pass
		1732.5	100	0	18.101	/	Pass
		1745	100	0	18.071	/	Pass

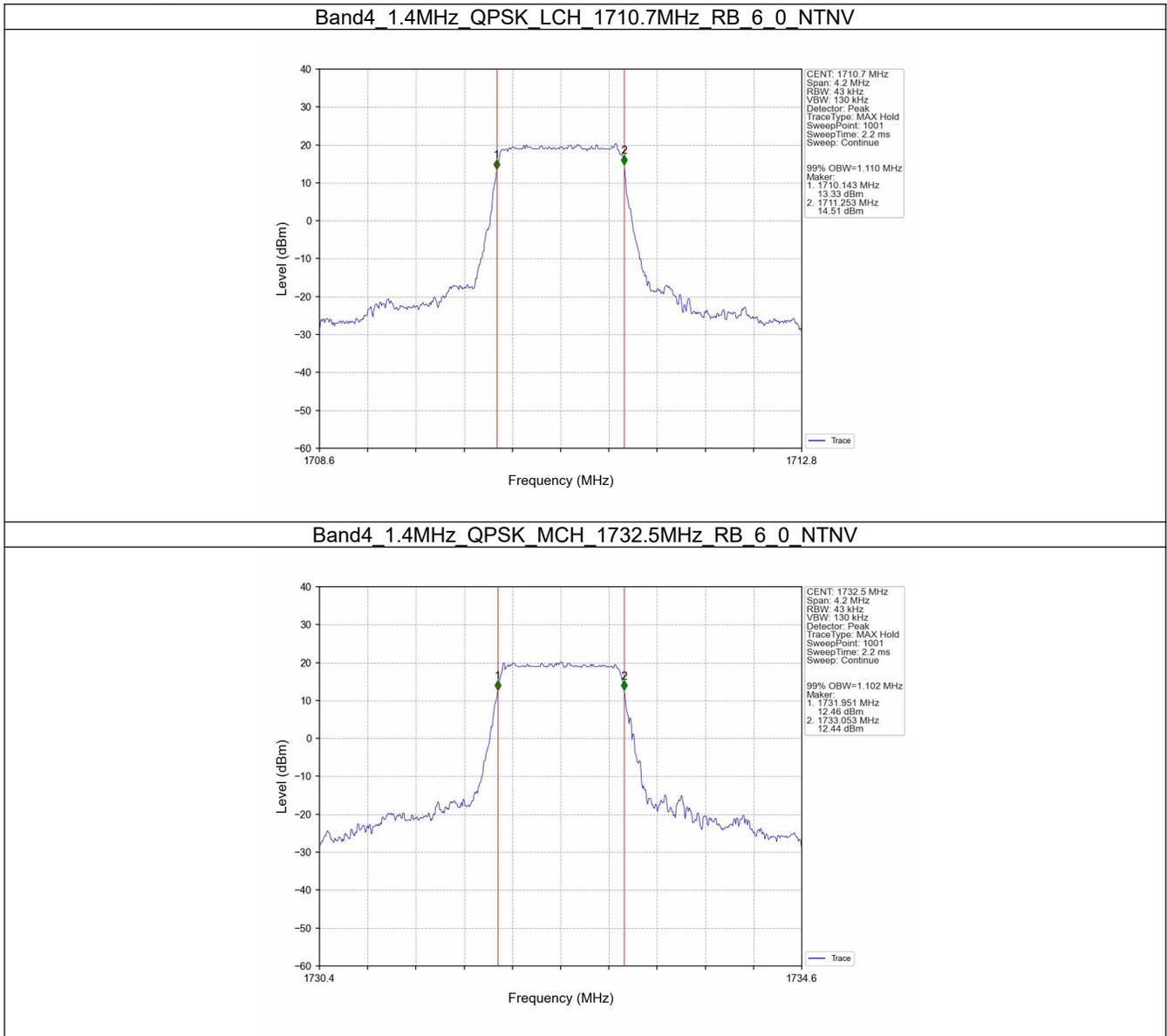
4.1.2 Band4_XDB

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	1.323	/	Pass
		1732.5	6	0	1.331	/	Pass
		1754.3	6	0	1.315	/	Pass
	16QAM	1710.7	6	0	1.315	/	Pass
		1732.5	6	0	1.302	/	Pass
		1754.3	6	0	1.290	/	Pass

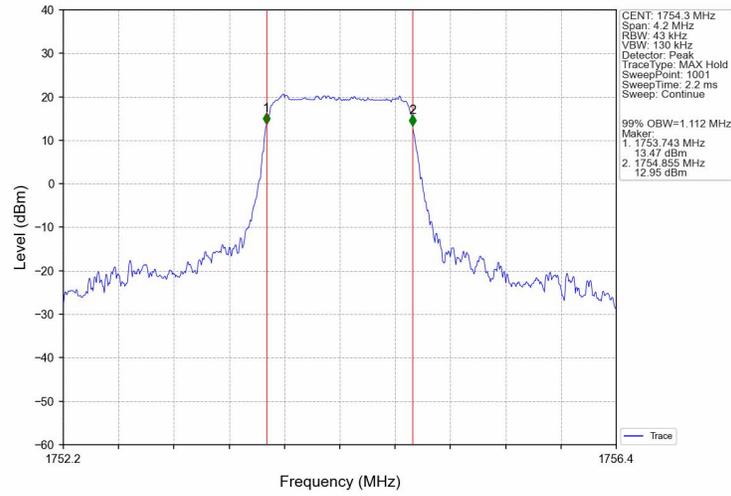
3	QPSK	1711.5	15	0	3.013	/	Pass
		1732.5	15	0	3.022	/	Pass
		1753.5	15	0	3.017	/	Pass
	16QAM	1711.5	15	0	3.017	/	Pass
		1732.5	15	0	3.014	/	Pass
		1753.5	15	0	2.995	/	Pass
5	QPSK	1712.5	25	0	5.000	/	Pass
		1732.5	25	0	5.049	/	Pass
		1752.5	25	0	5.057	/	Pass
	16QAM	1712.5	25	0	5.081	/	Pass
		1732.5	25	0	5.026	/	Pass
		1752.5	25	0	5.025	/	Pass
10	QPSK	1715	50	0	9.983	/	Pass
		1732.5	50	0	9.964	/	Pass
		1750	50	0	9.953	/	Pass
	16QAM	1715	50	0	9.946	/	Pass
		1732.5	50	0	9.856	/	Pass
		1750	50	0	9.846	/	Pass
15	QPSK	1717.5	75	0	14.951	/	Pass
		1732.5	75	0	14.963	/	Pass
		1747.5	75	0	14.940	/	Pass
	16QAM	1717.5	75	0	14.911	/	Pass
		1732.5	75	0	14.890	/	Pass
		1747.5	75	0	14.865	/	Pass
20	QPSK	1720	100	0	19.698	/	Pass
		1732.5	100	0	19.711	/	Pass
		1745	100	0	19.649	/	Pass
	16QAM	1720	100	0	19.812	/	Pass
		1732.5	100	0	19.738	/	Pass
		1745	100	0	19.700	/	Pass

4.2 Test Graph

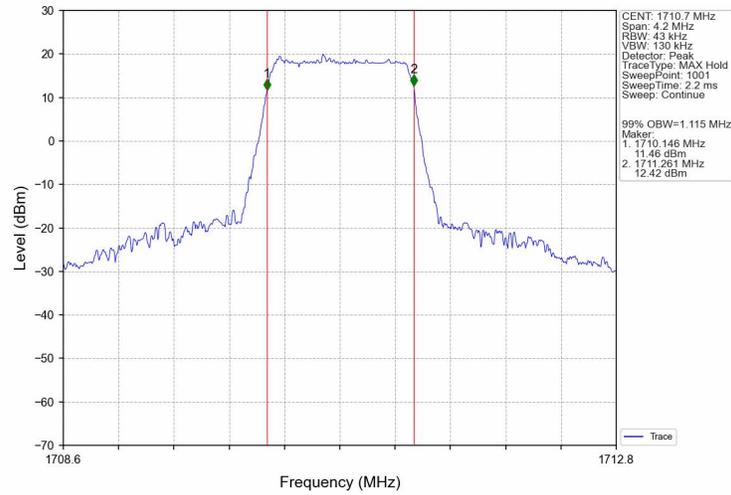
4.2.1 Band4_OBW



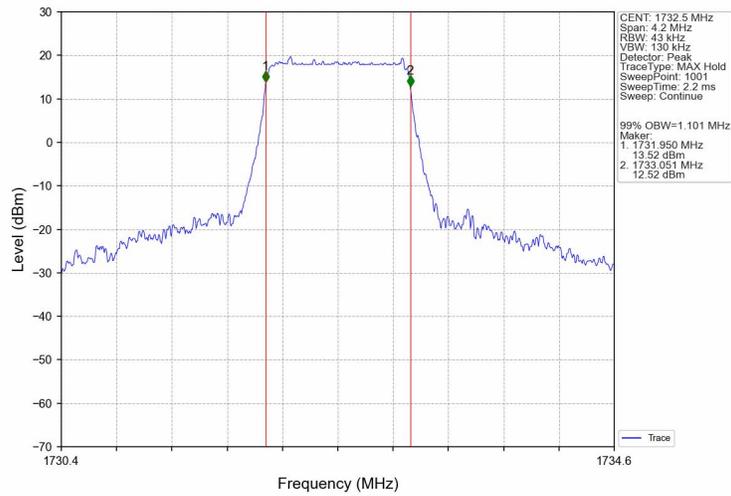
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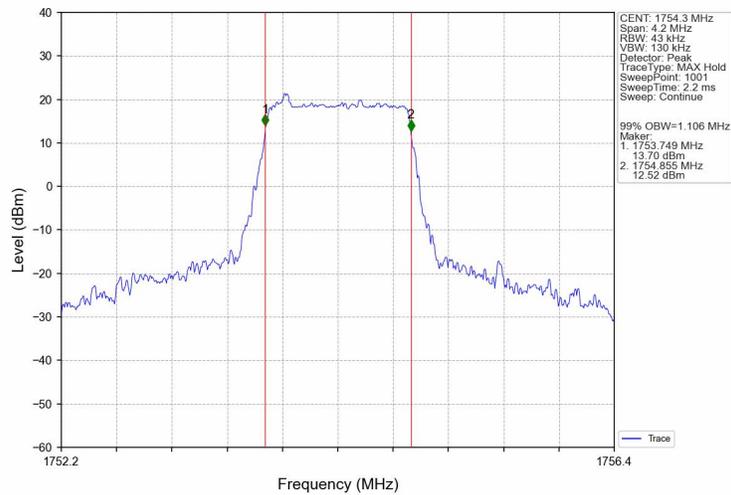
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



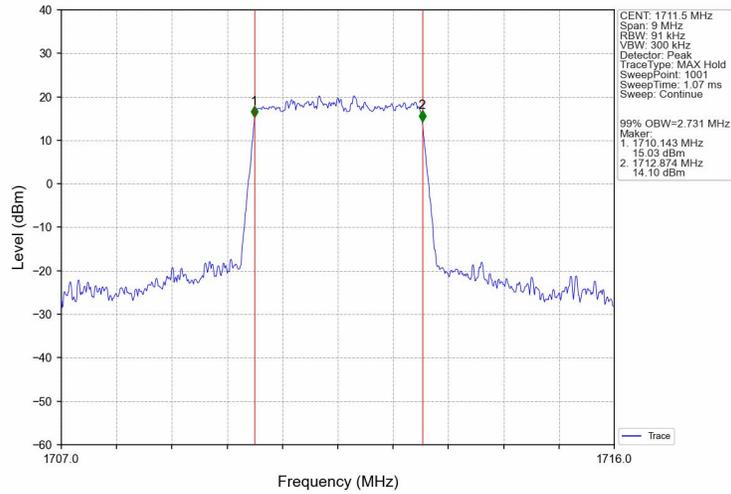
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



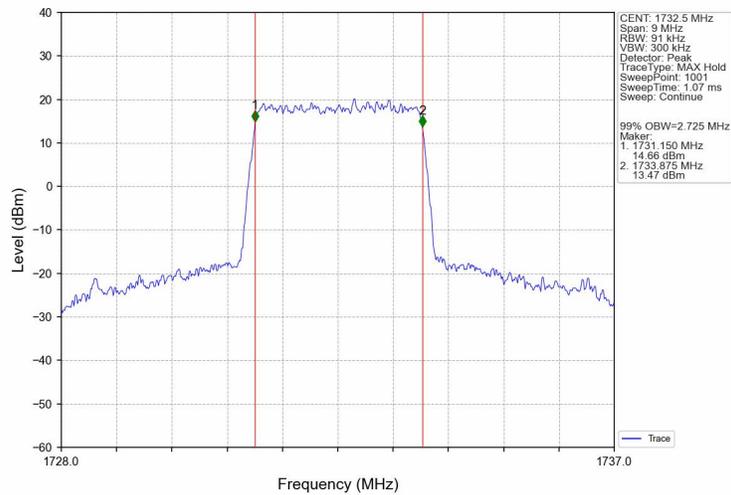
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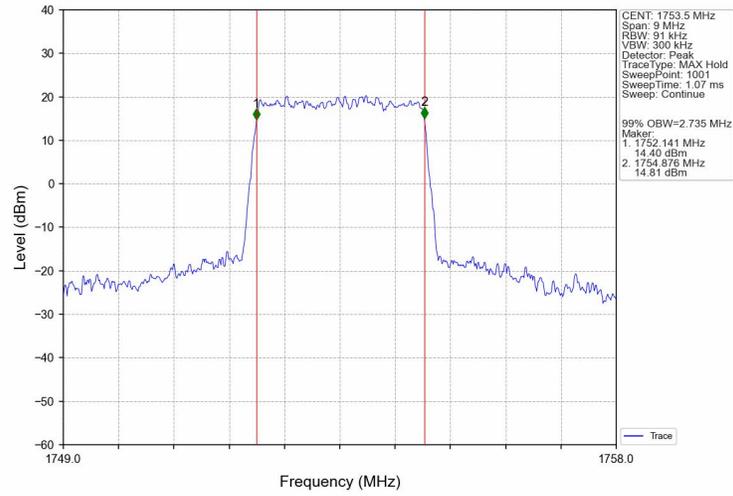
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



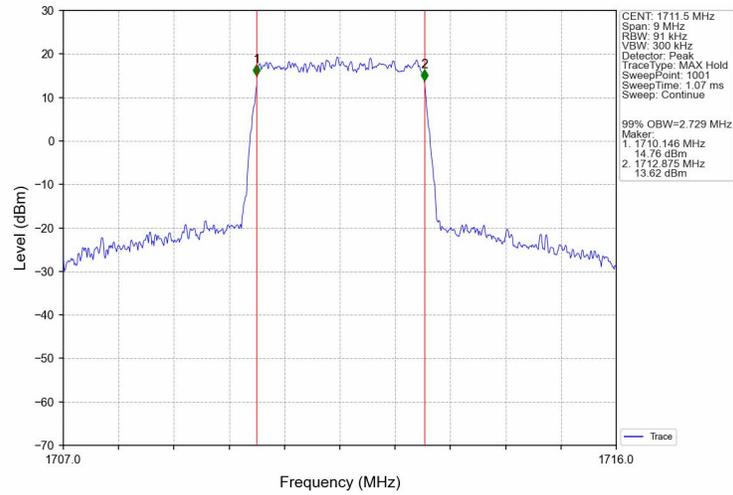
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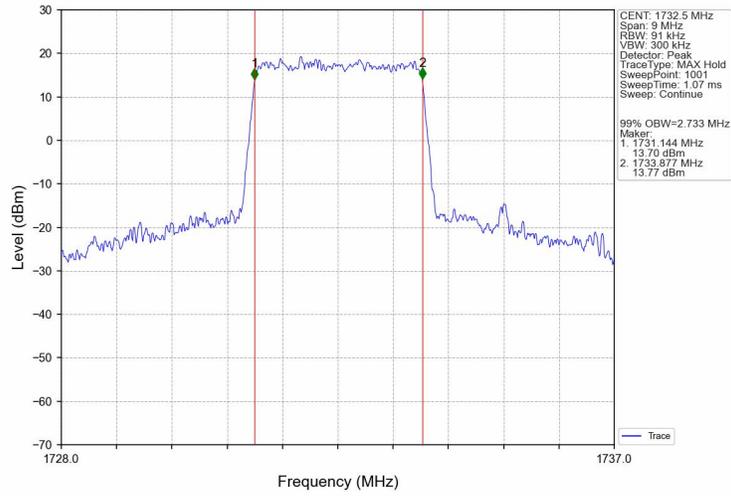
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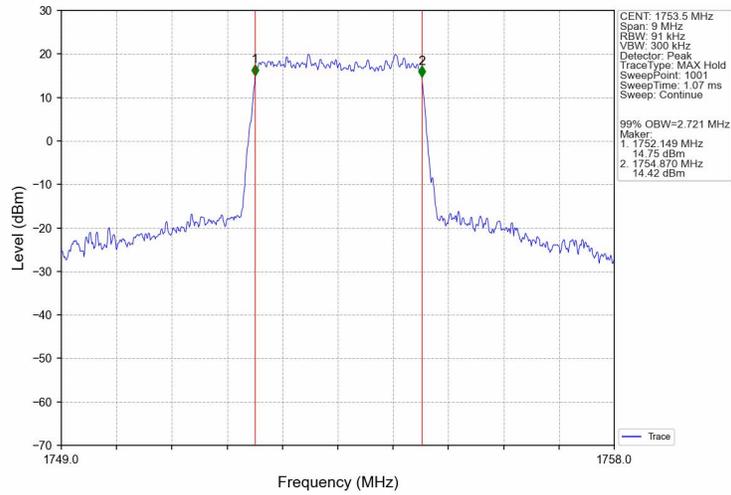
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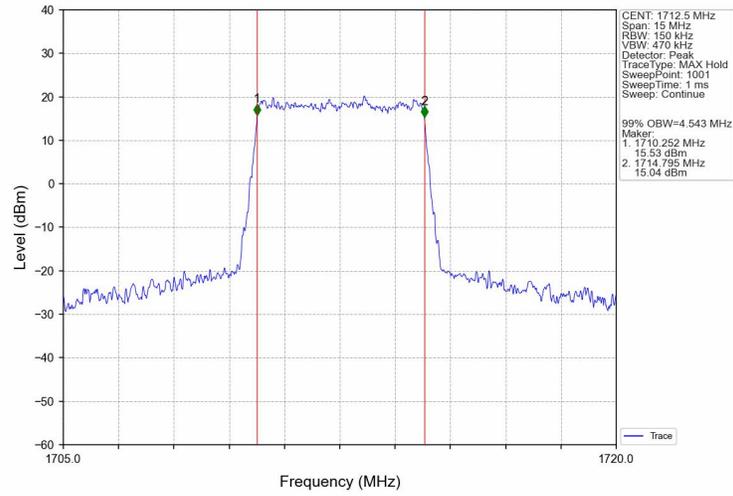
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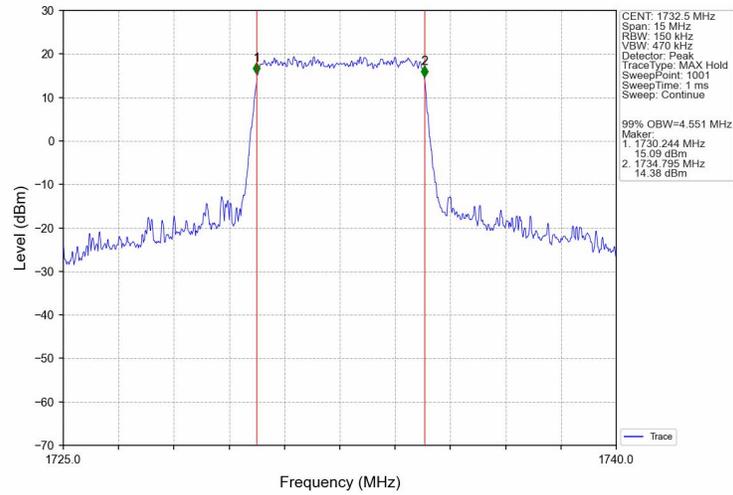
Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



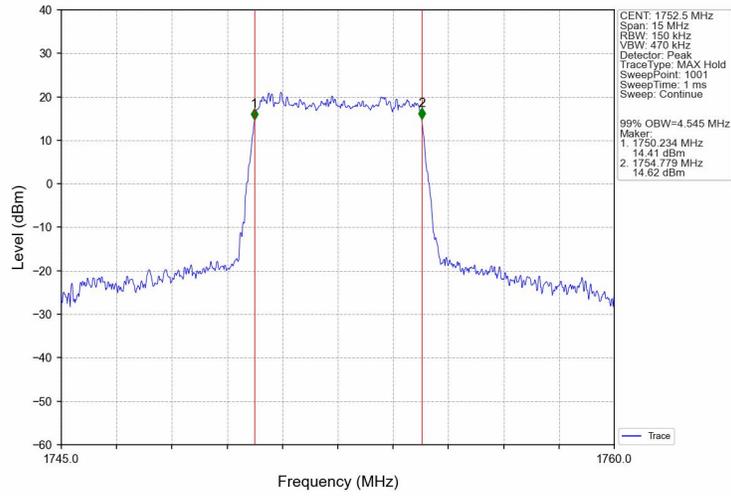
Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTV



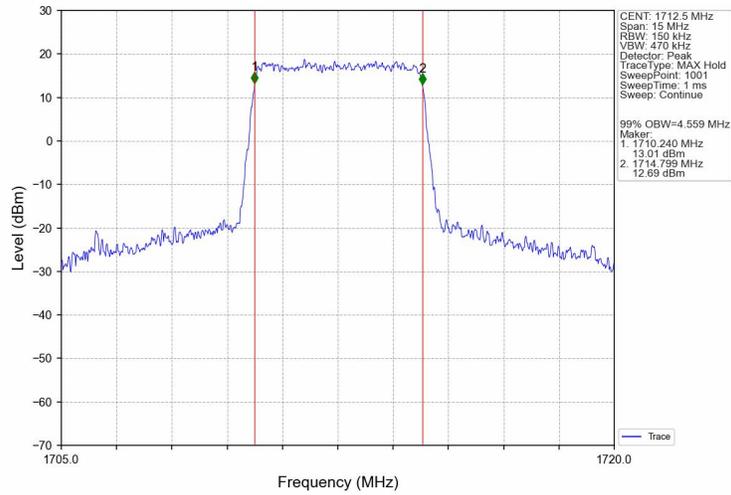
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTV



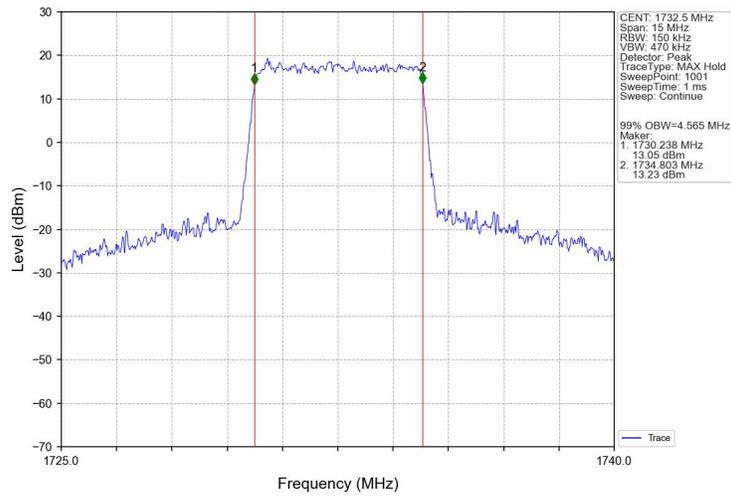
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



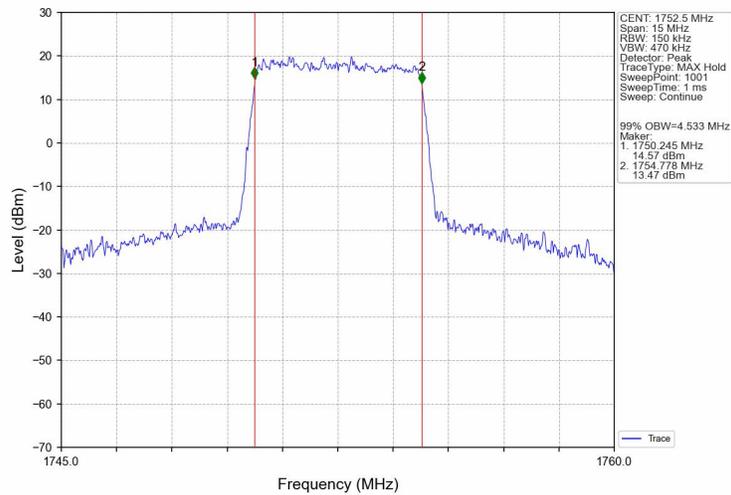
Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



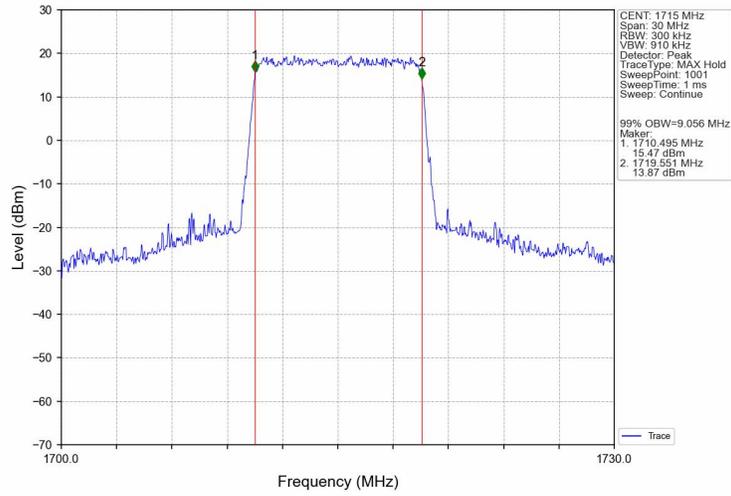
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



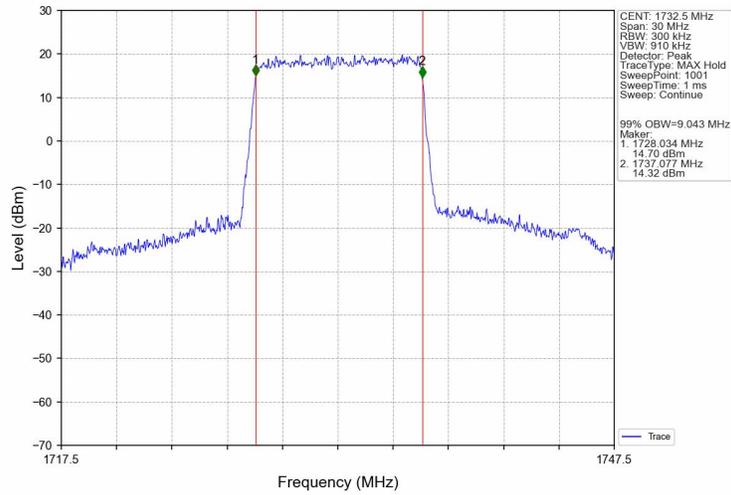
Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



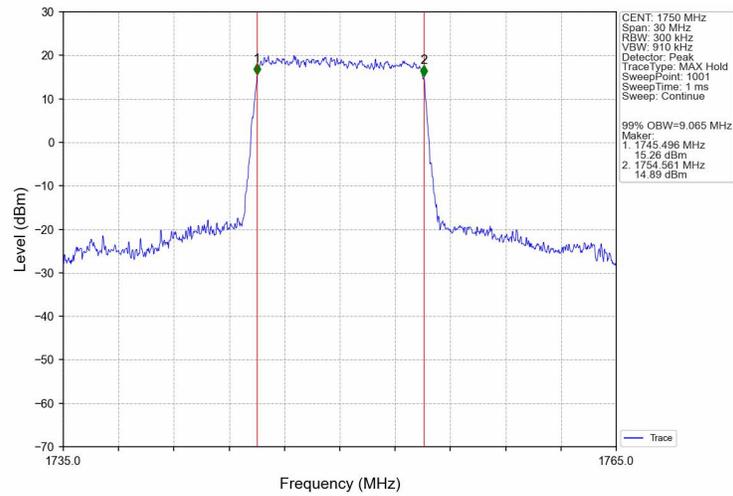
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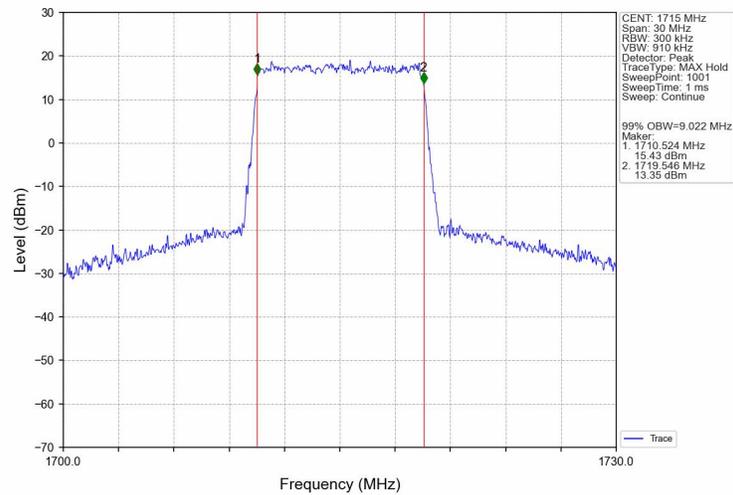
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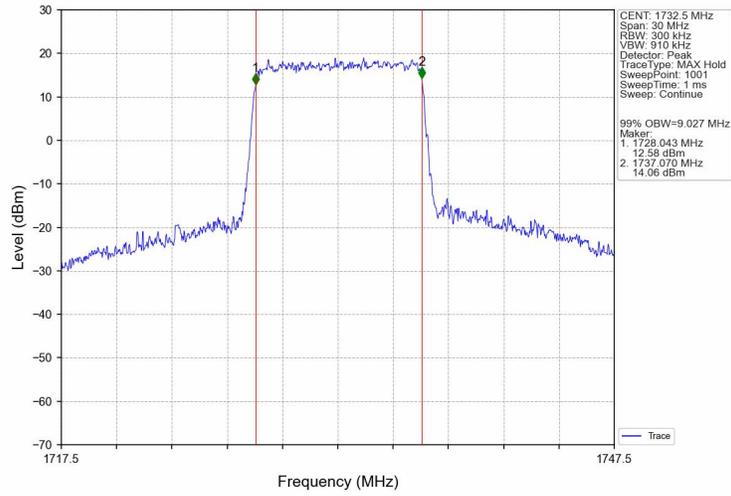
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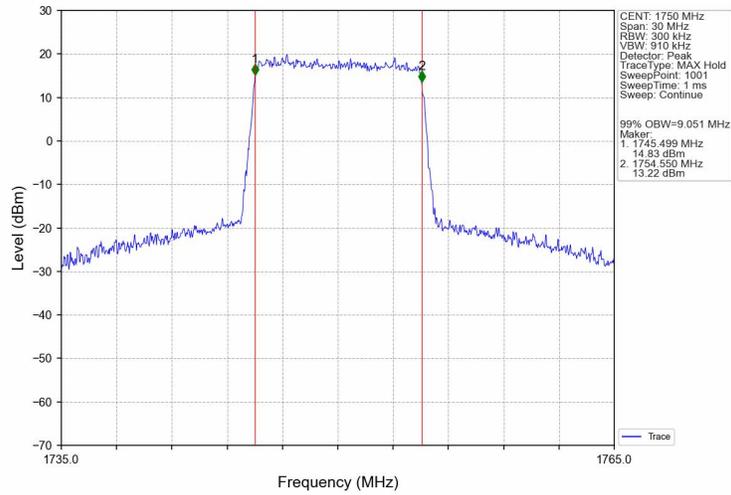
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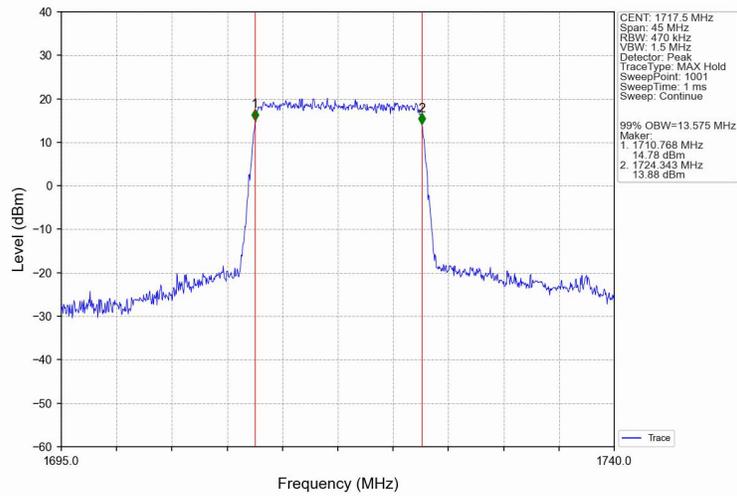
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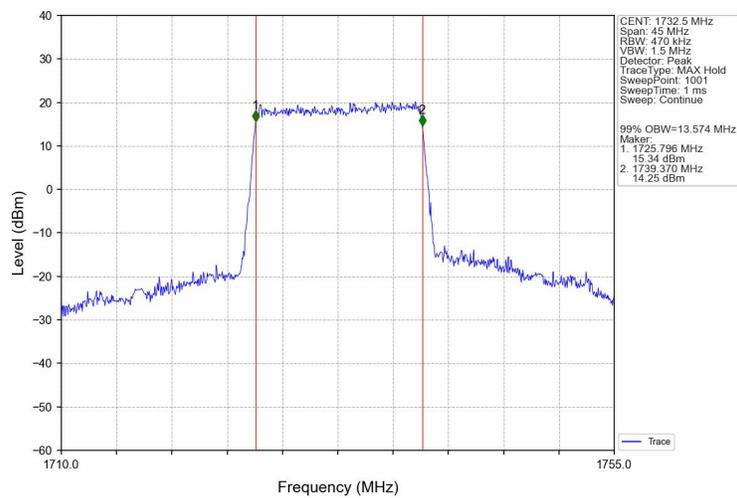
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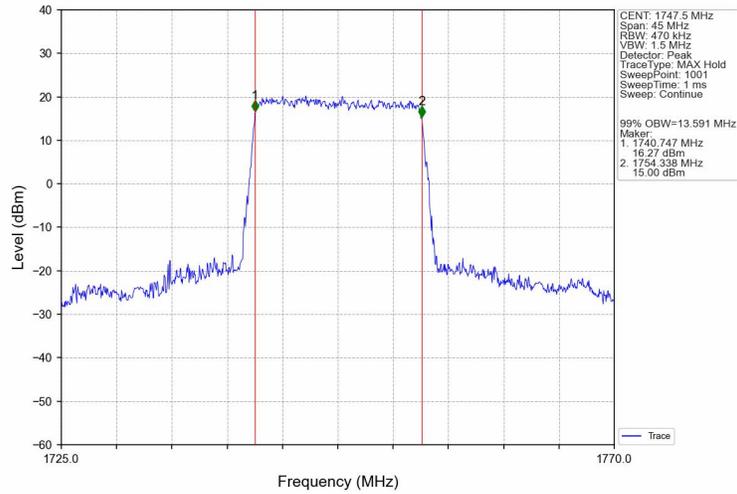
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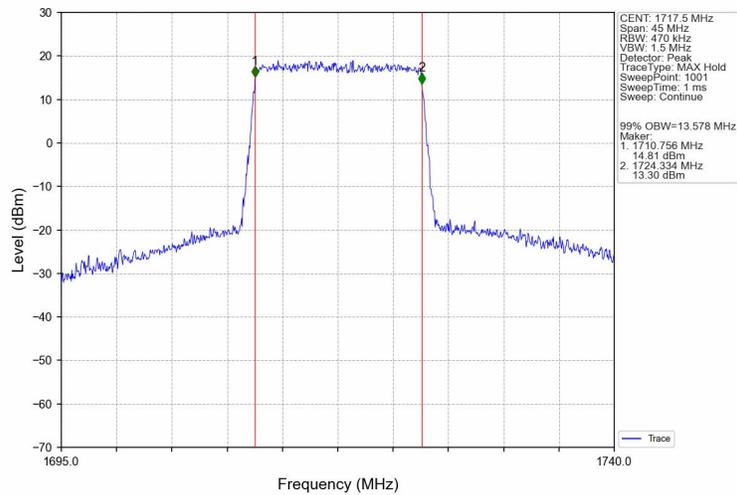
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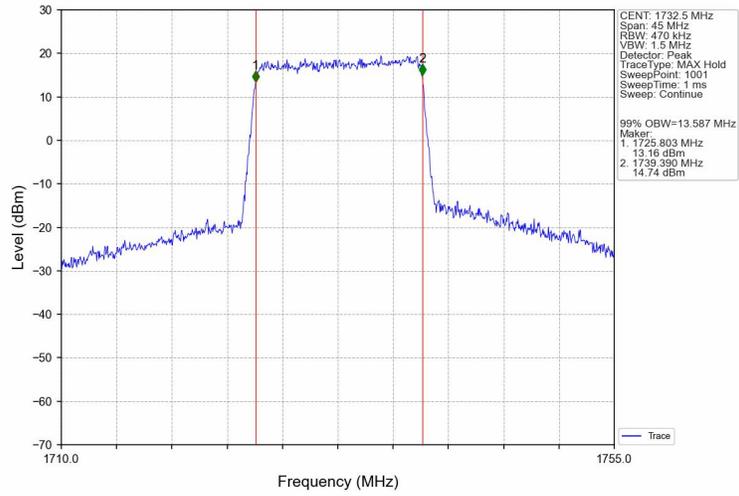
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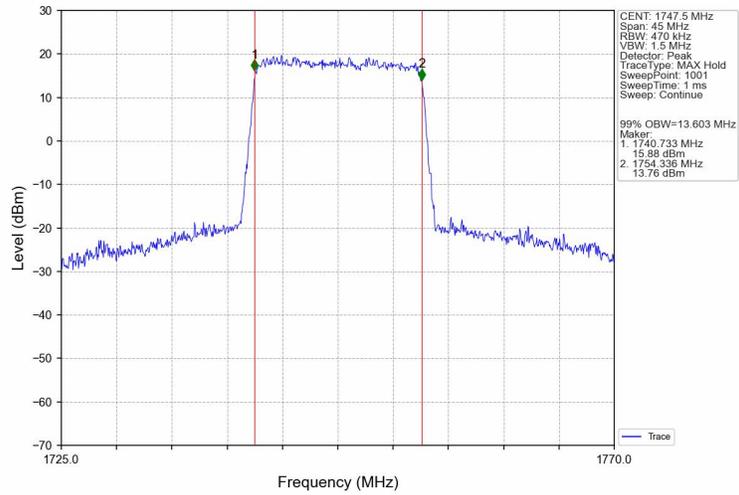
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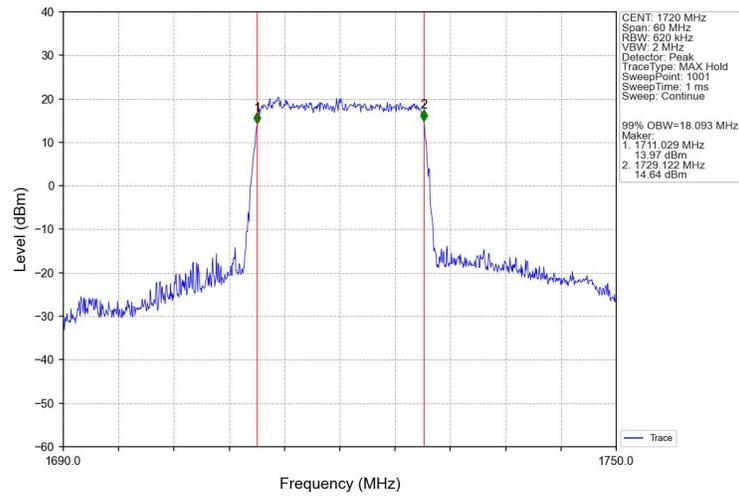
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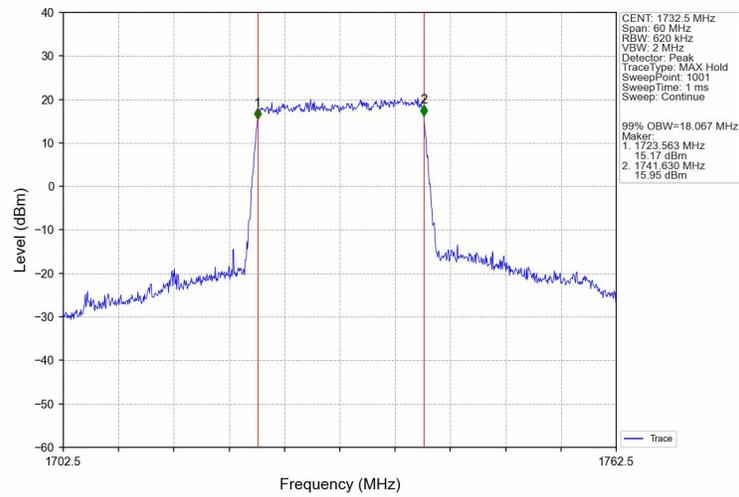
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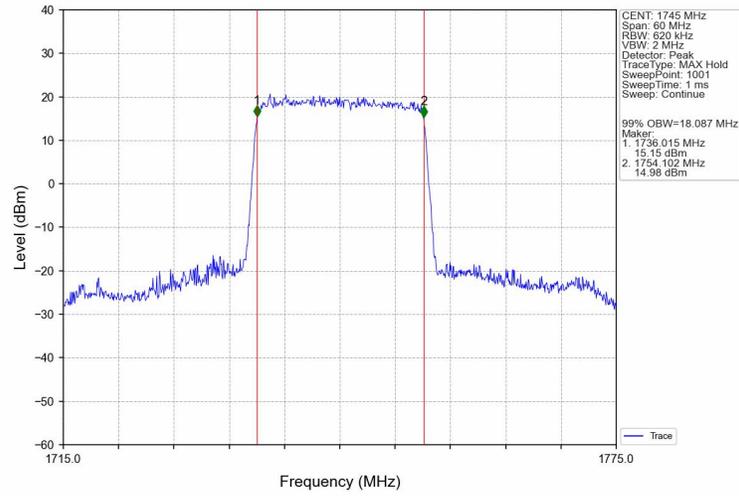
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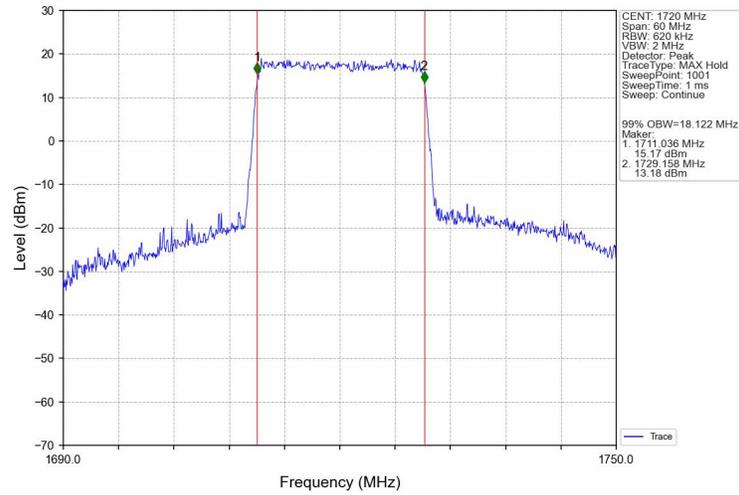
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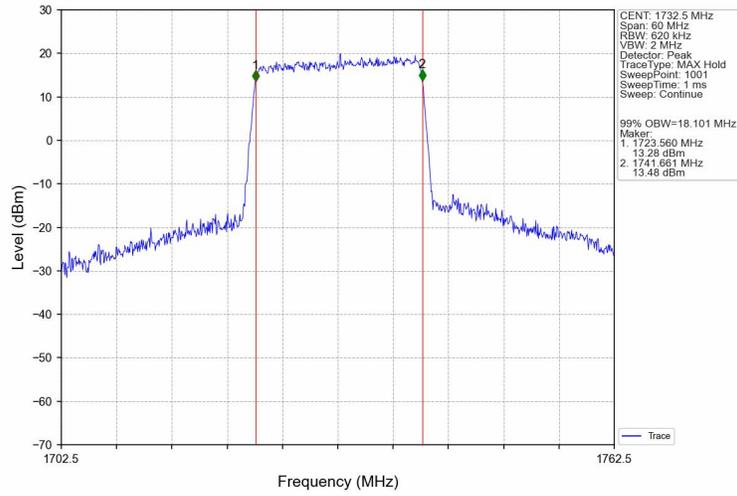
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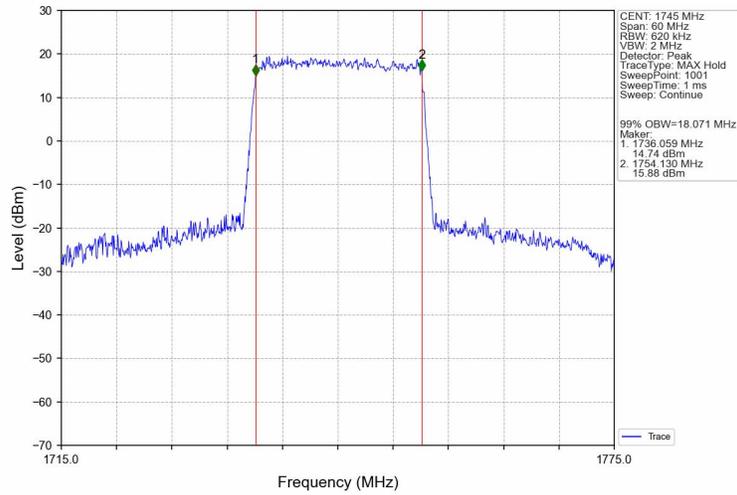
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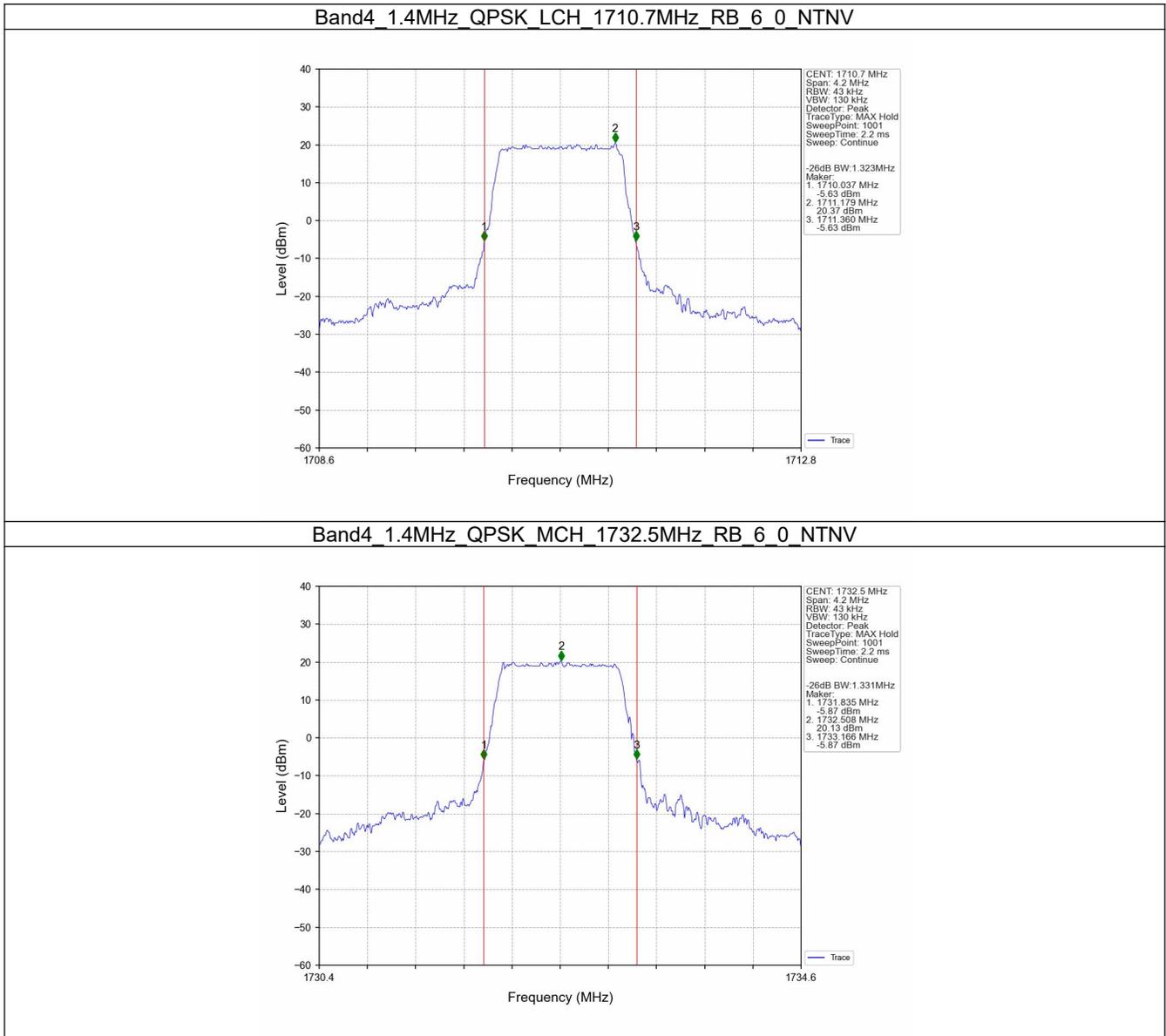
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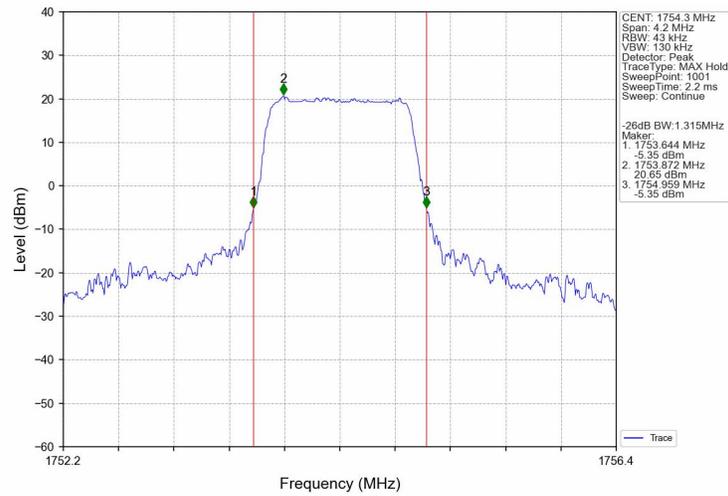
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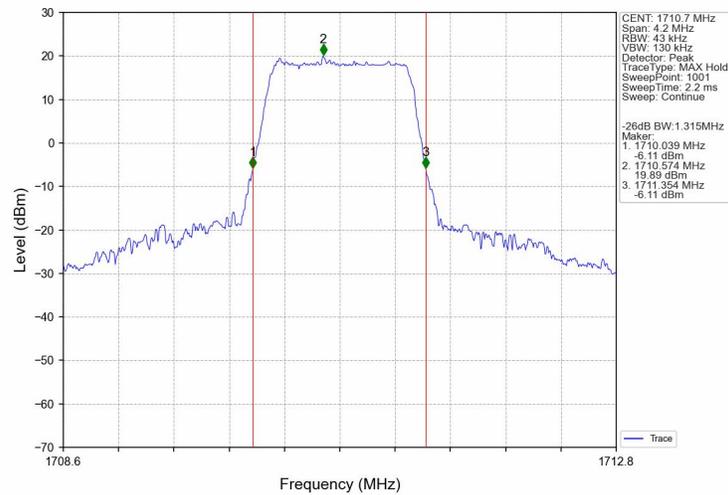
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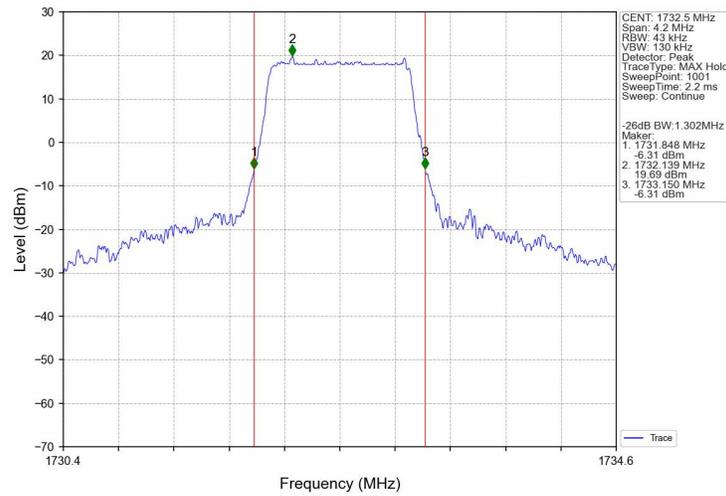
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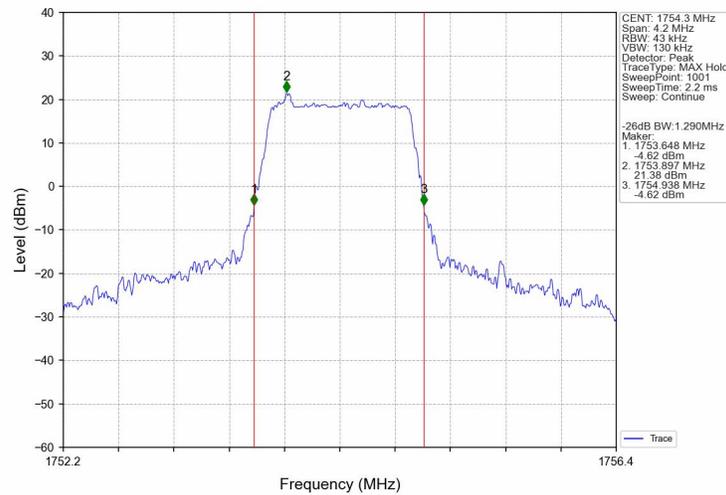
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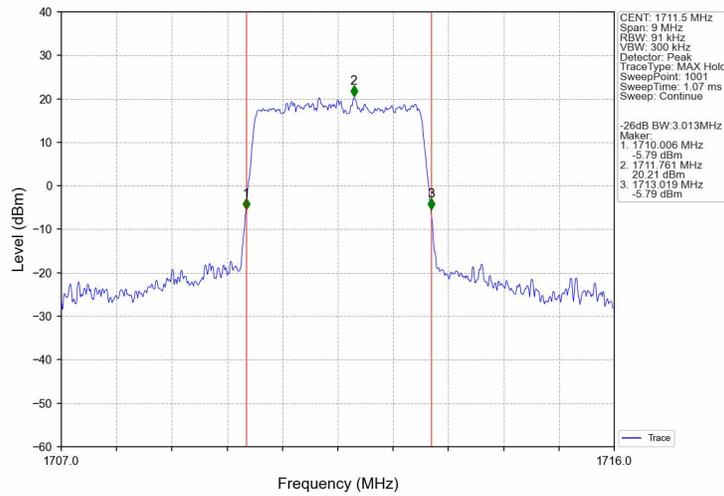
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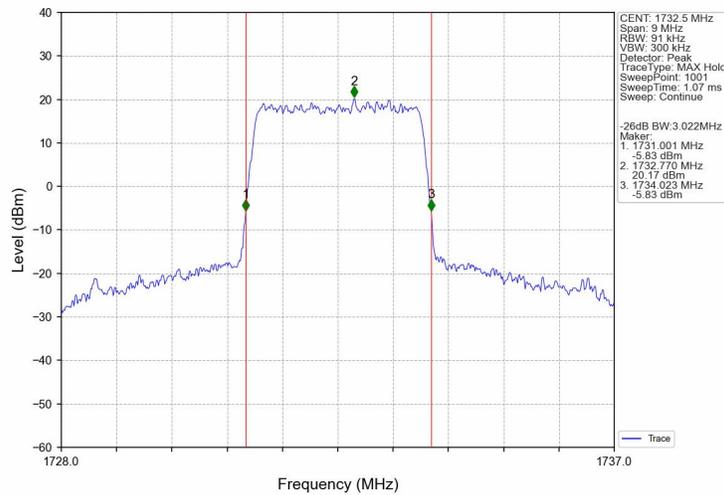
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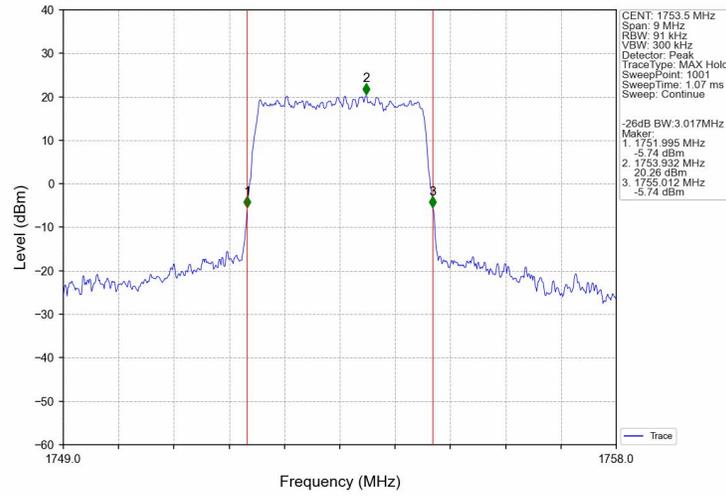
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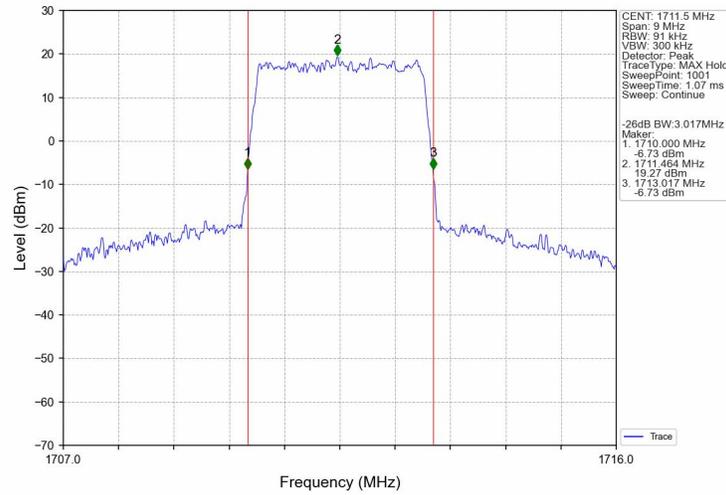
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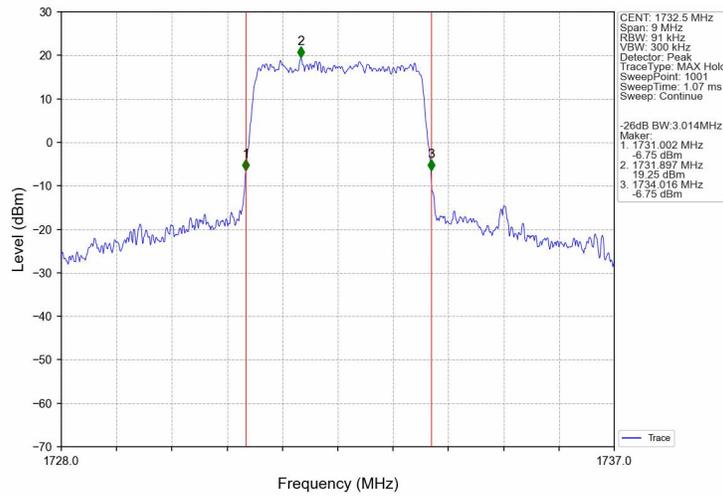
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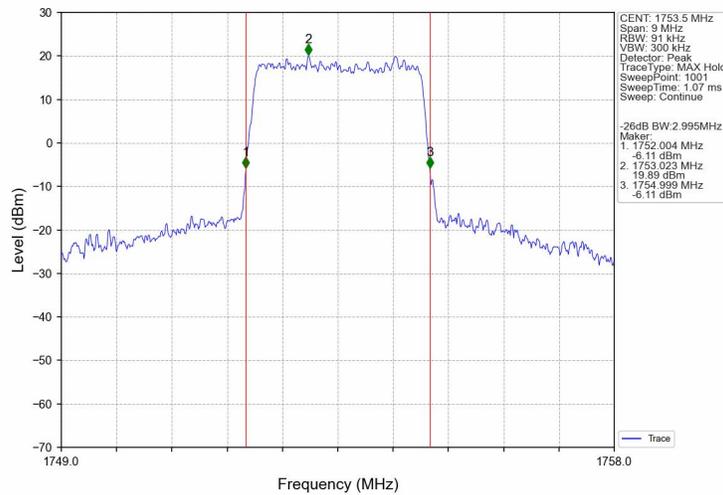
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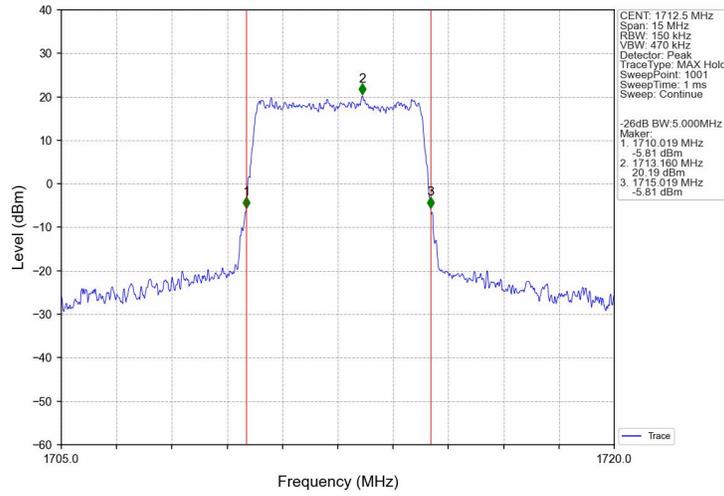
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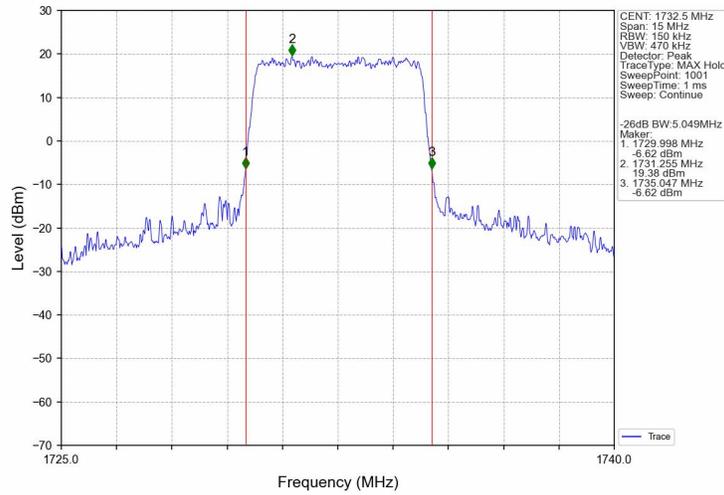
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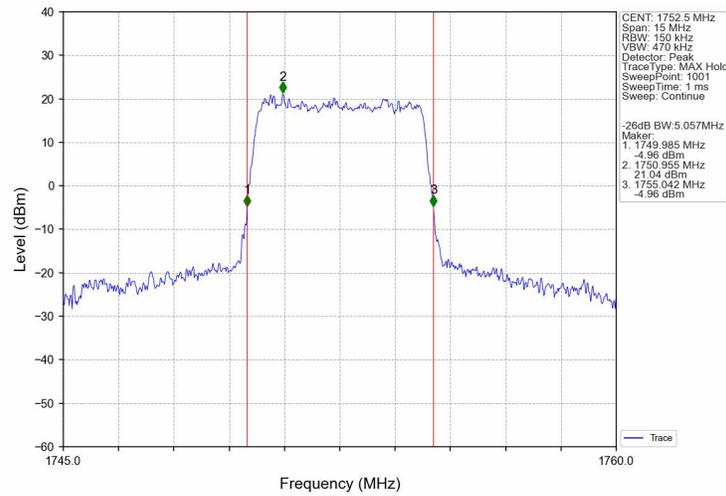
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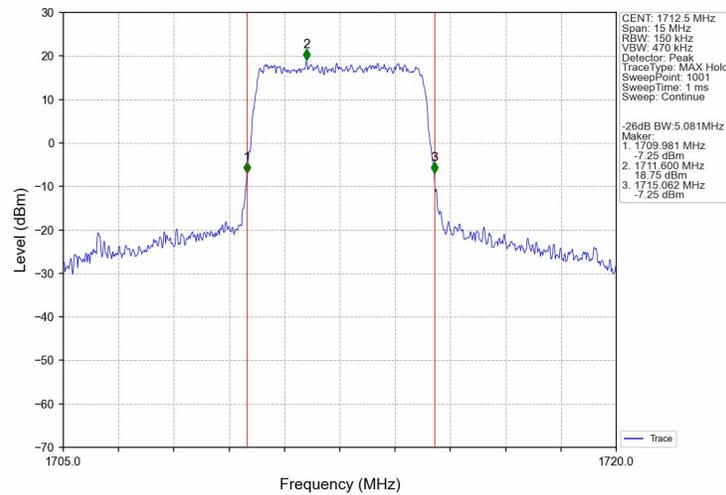
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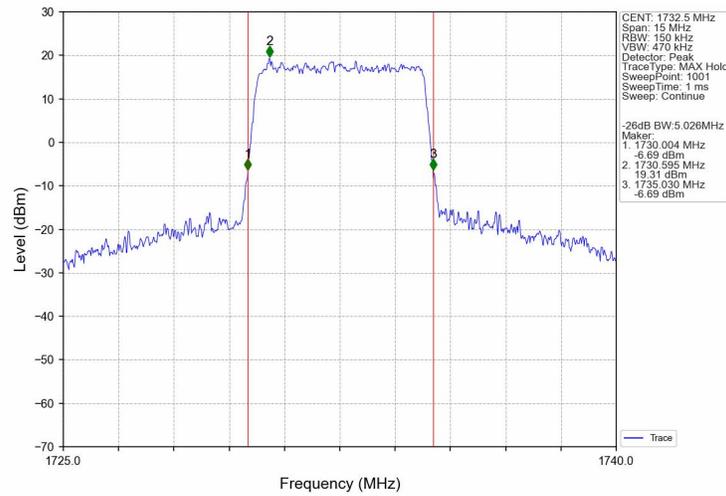
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

