

Appendix - band_4

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	21.78	-0.90	20.88	<=30	Pass
			2	21.92	-0.90	21.02	<=30	Pass
			5	21.79	-0.90	20.89	<=30	Pass
		3	0	21.67	-0.90	20.77	<=30	Pass
			2	21.72	-0.90	20.82	<=30	Pass
			3	21.69	-0.90	20.79	<=30	Pass
	1732.5	6	0	20.84	-0.90	19.94	<=30	Pass
			0	21.58	-0.90	20.68	<=30	Pass
			2	21.68	-0.90	20.78	<=30	Pass
		1	5	21.56	-0.90	20.66	<=30	Pass
			0	21.64	-0.90	20.74	<=30	Pass
			2	21.72	-0.90	20.82	<=30	Pass
		3	3	21.65	-0.90	20.75	<=30	Pass
			0	20.67	-0.90	19.77	<=30	Pass
			6	20.67	-0.90	19.77	<=30	Pass
	1754.3	1	0	21.42	-0.90	20.52	<=30	Pass
			2	21.52	-0.90	20.62	<=30	Pass
			5	21.41	-0.90	20.51	<=30	Pass
		3	0	21.45	-0.90	20.55	<=30	Pass
			2	21.48	-0.90	20.58	<=30	Pass
			3	21.43	-0.90	20.53	<=30	Pass
		6	0	20.54	-0.90	19.64	<=30	Pass
			0	20.63	-0.90	19.73	<=30	Pass
			2	20.77	-0.90	19.87	<=30	Pass
16QAM	1710.7	1	5	20.68	-0.90	19.78	<=30	Pass
			0	20.64	-0.90	19.74	<=30	Pass
			2	20.66	-0.90	19.76	<=30	Pass
		3	3	20.63	-0.90	19.73	<=30	Pass
			0	19.70	-0.90	18.80	<=30	Pass
			6	19.70	-0.90	18.80	<=30	Pass
	1732.5	1	0	20.73	-0.90	19.83	<=30	Pass
			2	20.85	-0.90	19.95	<=30	Pass
			5	20.74	-0.90	19.84	<=30	Pass
		3	0	20.57	-0.90	19.67	<=30	Pass
			2	20.63	-0.90	19.73	<=30	Pass
			3	20.62	-0.90	19.72	<=30	Pass
		6	0	19.68	-0.90	18.78	<=30	Pass
			0	20.32	-0.90	19.42	<=30	Pass
			2	20.45	-0.90	19.55	<=30	Pass
	1754.3	1	5	20.34	-0.90	19.44	<=30	Pass
			0	20.54	-0.90	19.64	<=30	Pass
			2	20.58	-0.90	19.68	<=30	Pass
		3	3	20.56	-0.90	19.66	<=30	Pass
			0	19.47	-0.90	18.57	<=30	Pass
			6	19.47	-0.90	18.57	<=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	21.88	-0.90	20.98	<=30	Pass	
			7	21.92	-0.90	21.02	<=30	Pass	
			14	21.82	-0.90	20.92	<=30	Pass	
		8	0	20.78	-0.90	19.88	<=30	Pass	
			4	20.81	-0.90	19.91	<=30	Pass	
			7	20.76	-0.90	19.86	<=30	Pass	
		15	0	20.69	-0.90	19.79	<=30	Pass	
		1732.5	1	0	21.61	-0.90	20.71	<=30	Pass
				7	21.76	-0.90	20.86	<=30	Pass
	14			21.57	-0.90	20.67	<=30	Pass	
	8		0	20.62	-0.90	19.72	<=30	Pass	
			4	20.64	-0.90	19.74	<=30	Pass	
			7	20.59	-0.90	19.69	<=30	Pass	
	15		0	20.59	-0.90	19.69	<=30	Pass	
	1753.5		1	0	21.46	-0.90	20.56	<=30	Pass
				7	21.62	-0.90	20.72	<=30	Pass
		14		21.48	-0.90	20.58	<=30	Pass	
		8	0	20.47	-0.90	19.57	<=30	Pass	
			4	20.48	-0.90	19.58	<=30	Pass	
			7	20.49	-0.90	19.59	<=30	Pass	
		15	0	20.42	-0.90	19.52	<=30	Pass	
16QAM		1711.5	1	0	20.72	-0.90	19.82	<=30	Pass
				7	20.81	-0.90	19.91	<=30	Pass
	14			20.65	-0.90	19.75	<=30	Pass	
	8		0	19.74	-0.90	18.84	<=30	Pass	
			4	19.77	-0.90	18.87	<=30	Pass	
			7	19.74	-0.90	18.84	<=30	Pass	
	15		0	19.69	-0.90	18.79	<=30	Pass	
	1732.5		1	0	20.77	-0.90	19.87	<=30	Pass
				7	20.91	-0.90	20.01	<=30	Pass
		14		20.75	-0.90	19.85	<=30	Pass	
		8	0	19.59	-0.90	18.69	<=30	Pass	
			4	19.64	-0.90	18.74	<=30	Pass	
			7	19.58	-0.90	18.68	<=30	Pass	
		15	0	19.57	-0.90	18.67	<=30	Pass	
		1753.5	1	0	20.85	-0.90	19.95	<=30	Pass
				7	20.99	-0.90	20.09	<=30	Pass
	14			20.86	-0.90	19.96	<=30	Pass	
	8		0	19.56	-0.90	18.66	<=30	Pass	
			4	19.61	-0.90	18.71	<=30	Pass	
			7	19.60	-0.90	18.70	<=30	Pass	
	15		0	19.44	-0.90	18.54	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	21.70	-0.90	20.80	<=30	Pass
			13	21.79	-0.90	20.89	<=30	Pass
			24	21.64	-0.90	20.74	<=30	Pass
		12	0	20.65	-0.90	19.75	<=30	Pass
			6	20.71	-0.90	19.81	<=30	Pass
			13	20.67	-0.90	19.77	<=30	Pass

16QAM	1732.5	25	0	20.63	-0.90	19.73	<=30	Pass
			0	21.52	-0.90	20.62	<=30	Pass
			13	21.64	-0.90	20.74	<=30	Pass
		1	24	21.49	-0.90	20.59	<=30	Pass
			0	20.59	-0.90	19.69	<=30	Pass
			6	20.64	-0.90	19.74	<=30	Pass
			13	20.60	-0.90	19.70	<=30	Pass
		12	25	20.57	-0.90	19.67	<=30	Pass
			0	21.31	-0.90	20.41	<=30	Pass
	1752.5	1	13	21.44	-0.90	20.54	<=30	Pass
			24	21.31	-0.90	20.41	<=30	Pass
			0	20.34	-0.90	19.44	<=30	Pass
		12	6	20.41	-0.90	19.51	<=30	Pass
			13	20.33	-0.90	19.43	<=30	Pass
			25	20.34	-0.90	19.44	<=30	Pass
	1712.5	1	0	20.67	-0.90	19.77	<=30	Pass
			13	20.78	-0.90	19.88	<=30	Pass
			24	20.61	-0.90	19.71	<=30	Pass
		12	0	19.57	-0.90	18.67	<=30	Pass
			6	19.65	-0.90	18.75	<=30	Pass
			13	19.61	-0.90	18.71	<=30	Pass
		25	0	19.62	-0.90	18.72	<=30	Pass
			0	20.75	-0.90	19.85	<=30	Pass
			13	20.86	-0.90	19.96	<=30	Pass
		1	24	20.71	-0.90	19.81	<=30	Pass
			0	19.65	-0.90	18.75	<=30	Pass
			6	19.67	-0.90	18.77	<=30	Pass
		12	13	19.66	-0.90	18.76	<=30	Pass
			25	19.61	-0.90	18.71	<=30	Pass
		1	0	20.16	-0.90	19.26	<=30	Pass
			13	20.23	-0.90	19.33	<=30	Pass
			24	20.13	-0.90	19.23	<=30	Pass
	1752.5	12	0	19.32	-0.90	18.42	<=30	Pass
			6	19.38	-0.90	18.48	<=30	Pass
			13	19.31	-0.90	18.41	<=30	Pass
		25	0	19.37	-0.90	18.47	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	21.82	-0.90	20.92	<=30	Pass
			25	21.99	-0.90	21.09	<=30	Pass
			49	21.73	-0.90	20.83	<=30	Pass
		25	0	20.69	-0.90	19.79	<=30	Pass
			13	20.69	-0.90	19.79	<=30	Pass
			25	20.73	-0.90	19.83	<=30	Pass
		50	0	20.71	-0.90	19.81	<=30	Pass
			0	21.61	-0.90	20.71	<=30	Pass
			25	21.79	-0.90	20.89	<=30	Pass
	1732.5	1	49	21.51	-0.90	20.61	<=30	Pass
			0	20.63	-0.90	19.73	<=30	Pass
			13	20.64	-0.90	19.74	<=30	Pass
		25	25	20.70	-0.90	19.80	<=30	Pass
			0	20.67	-0.90	19.77	<=30	Pass
			0	21.50	-0.90	20.60	<=30	Pass

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		25	25	21.61	-0.90	20.71	<=30	Pass		
			49	21.41	-0.90	20.51	<=30	Pass		
			0	20.40	-0.90	19.50	<=30	Pass		
			13	20.42	-0.90	19.52	<=30	Pass		
			25	20.36	-0.90	19.46	<=30	Pass		
		50	0	20.37	-0.90	19.47	<=30	Pass		
		16QAM	1715	1	0	20.68	-0.90	19.78	<=30	Pass
					25	20.82	-0.90	19.92	<=30	Pass
					49	20.67	-0.90	19.77	<=30	Pass
25	0			19.72	-0.90	18.82	<=30	Pass		
	13			19.75	-0.90	18.85	<=30	Pass		
	25			19.79	-0.90	18.89	<=30	Pass		
50	0			19.70	-0.90	18.80	<=30	Pass		
1732.5	1			0	20.74	-0.90	19.84	<=30	Pass	
				25	20.94	-0.90	20.04	<=30	Pass	
		49	20.69	-0.90	19.79	<=30	Pass			
	25	0	19.70	-0.90	18.80	<=30	Pass			
		13	19.66	-0.90	18.76	<=30	Pass			
		25	19.71	-0.90	18.81	<=30	Pass			
	50	0	19.69	-0.90	18.79	<=30	Pass			
	1750	1	0	20.96	-0.90	20.06	<=30	Pass		
			25	21.02	-0.90	20.12	<=30	Pass		
49			20.78	-0.90	19.88	<=30	Pass			
25		0	19.44	-0.90	18.54	<=30	Pass			
		13	19.46	-0.90	18.56	<=30	Pass			
		25	19.39	-0.90	18.49	<=30	Pass			
50		0	19.39	-0.90	18.49	<=30	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	21.75	-0.90	20.85	<=30	Pass
			38	21.75	-0.90	20.85	<=30	Pass
			74	21.55	-0.90	20.65	<=30	Pass
		36	0	20.87	-0.90	19.97	<=30	Pass
			18	20.85	-0.90	19.95	<=30	Pass
			39	20.78	-0.90	19.88	<=30	Pass
		75	0	20.81	-0.90	19.91	<=30	Pass
	1732.5	1	0	21.54	-0.90	20.64	<=30	Pass
			38	21.64	-0.90	20.74	<=30	Pass
			74	21.50	-0.90	20.60	<=30	Pass
		36	0	20.70	-0.90	19.80	<=30	Pass
			18	20.68	-0.90	19.78	<=30	Pass
			39	20.72	-0.90	19.82	<=30	Pass
		75	0	20.69	-0.90	19.79	<=30	Pass
	1747.5	1	0	21.51	-0.90	20.61	<=30	Pass
			38	21.52	-0.90	20.62	<=30	Pass
			74	21.34	-0.90	20.44	<=30	Pass
		36	0	20.62	-0.90	19.72	<=30	Pass
			18	20.59	-0.90	19.69	<=30	Pass
			39	20.52	-0.90	19.62	<=30	Pass
		75	0	20.55	-0.90	19.65	<=30	Pass
16QAM	1717.5	1	0	20.82	-0.90	19.92	<=30	Pass
			38	20.92	-0.90	20.02	<=30	Pass
			74	20.90	-0.90	20.00	<=30	Pass

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		36	0	19.75	-0.90	18.85	<=30	Pass
			18	19.72	-0.90	18.82	<=30	Pass
			39	19.70	-0.90	18.80	<=30	Pass
		75	0	19.73	-0.90	18.83	<=30	Pass
			0	20.69	-0.90	19.79	<=30	Pass
			38	20.78	-0.90	19.88	<=30	Pass
		1732.5	74	20.64	-0.90	19.74	<=30	Pass
			0	19.70	-0.90	18.80	<=30	Pass
			18	19.68	-0.90	18.78	<=30	Pass
			39	19.69	-0.90	18.79	<=30	Pass
			75	19.71	-0.90	18.81	<=30	Pass
			0	21.02	-0.90	20.12	<=30	Pass
	1747.5	1	38	20.99	-0.90	20.09	<=30	Pass
			74	20.75	-0.90	19.85	<=30	Pass
			0	19.62	-0.90	18.72	<=30	Pass
		36	18	19.58	-0.90	18.68	<=30	Pass
			39	19.48	-0.90	18.58	<=30	Pass
			75	19.52	-0.90	18.62	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	21.49	-0.90	20.59	<=30	Pass
			50	21.83	-0.90	20.93	<=30	Pass
			99	21.35	-0.90	20.45	<=30	Pass
		50	0	20.64	-0.90	19.74	<=30	Pass
			25	20.67	-0.90	19.77	<=30	Pass
			50	20.64	-0.90	19.74	<=30	Pass
		100	0	20.69	-0.90	19.79	<=30	Pass
			0	21.37	-0.90	20.47	<=30	Pass
			50	21.81	-0.90	20.91	<=30	Pass
	1732.5	1	99	21.41	-0.90	20.51	<=30	Pass
			0	20.65	-0.90	19.75	<=30	Pass
			25	20.61	-0.90	19.71	<=30	Pass
		50	50	20.70	-0.90	19.80	<=30	Pass
			0	20.69	-0.90	19.79	<=30	Pass
			0	21.29	-0.90	20.39	<=30	Pass
		100	50	21.70	-0.90	20.80	<=30	Pass
			99	21.14	-0.90	20.24	<=30	Pass
			0	20.47	-0.90	19.57	<=30	Pass
	1745	50	25	20.56	-0.90	19.66	<=30	Pass
			50	20.48	-0.90	19.58	<=30	Pass
			0	20.51	-0.90	19.61	<=30	Pass
16QAM	1720	1	0	20.85	-0.90	19.95	<=30	Pass
			50	21.30	-0.90	20.40	<=30	Pass
			99	20.92	-0.90	20.02	<=30	Pass
		50	0	19.63	-0.90	18.73	<=30	Pass
			25	19.68	-0.90	18.78	<=30	Pass
			50	19.64	-0.90	18.74	<=30	Pass
		100	0	19.70	-0.90	18.80	<=30	Pass
			0	20.59	-0.90	19.69	<=30	Pass
			50	20.92	-0.90	20.02	<=30	Pass
	1732.5	1	99	20.54	-0.90	19.64	<=30	Pass
			0	19.63	-0.90	18.73	<=30	Pass
			25	19.65	-0.90	18.75	<=30	Pass

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	1745	100	50	19.70	-0.90	18.80	<=30	Pass
			0	19.69	-0.90	18.79	<=30	Pass
		1	0	20.56	-0.90	19.66	<=30	Pass
			50	20.92	-0.90	20.02	<=30	Pass
			99	20.35	-0.90	19.45	<=30	Pass
		50	0	19.47	-0.90	18.57	<=30	Pass
			25	19.55	-0.90	18.65	<=30	Pass
			50	19.48	-0.90	18.58	<=30	Pass
		100	0	19.54	-0.90	18.64	<=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	-5.350	-0.0031	within 1710-1755MHz	Pass
					3.85	0.987	0.0006	within 1710-1755MHz	Pass
					4.43	0.687	0.0004	within 1710-1755MHz	Pass
				-30	3.85	1.402	0.0008	within 1710-1755MHz	Pass
				-20	3.85	1.359	0.0008	within 1710-1755MHz	Pass
				-10	3.85	6.881	0.0040	within 1710-1755MHz	Pass
				0	3.85	-10.171	-0.0059	within 1710-1755MHz	Pass
				10	3.85	-4.721	-0.0028	within 1710-1755MHz	Pass
				30	3.85	-3.448	-0.0020	within 1710-1755MHz	Pass
				40	3.85	3.290	0.0019	within 1710-1755MHz	Pass
				50	3.85	-2.575	-0.0015	within 1710-1755MHz	Pass
	1732.5	6	0	20	3.27	-12.274	-0.0071	within 1710-1755MHz	Pass
					3.85	-13.061	-0.0075	within 1710-1755MHz	Pass
					4.43	-6.309	-0.0036	within 1710-1755MHz	Pass
				-30	3.85	3.519	0.0020	within 1710-1755MHz	Pass
				-20	3.85	2.532	0.0015	within 1710-1755MHz	Pass
				-10	3.85	-4.363	-0.0025	within 1710-1755MHz	Pass
				0	3.85	-8.698	-0.0050	within 1710-1755MHz	Pass
				10	3.85	-4.363	-0.0025	within 1710-	Pass

16QAM	1754.3	6	0	30	3.85	-2.503	-0.0014	1755MHz within 1710-1755MHz	Pass
				40	3.85	-6.423	-0.0037	within 1710-1755MHz	Pass
				50	3.85	-13.075	-0.0075	within 1710-1755MHz	Pass
	1754.3	6	0	20	3.27	-4.249	-0.0024	within 1710-1755MHz	Pass
					3.85	3.090	0.0018	within 1710-1755MHz	Pass
					4.43	-10.471	-0.0060	within 1710-1755MHz	Pass
				-30	3.85	-9.828	-0.0056	within 1710-1755MHz	Pass
				-20	3.85	-2.918	-0.0017	within 1710-1755MHz	Pass
				-10	3.85	-2.675	-0.0015	within 1710-1755MHz	Pass
				0	3.85	-11.187	-0.0064	within 1710-1755MHz	Pass
				10	3.85	-6.580	-0.0038	within 1710-1755MHz	Pass
				30	3.85	-2.389	-0.0014	within 1710-1755MHz	Pass
				40	3.85	-3.991	-0.0023	within 1710-1755MHz	Pass
				50	3.85	-5.336	-0.0030	within 1710-1755MHz	Pass
	1710.7	6	0	20	3.27	-2.232	-0.0013	within 1710-1755MHz	Pass
					3.85	-11.072	-0.0065	within 1710-1755MHz	Pass
					4.43	-4.535	-0.0027	within 1710-1755MHz	Pass
				-30	3.85	4.377	0.0026	within 1710-1755MHz	Pass
				-20	3.85	-5.951	-0.0035	within 1710-1755MHz	Pass
				-10	3.85	-1.373	-0.0008	within 1710-1755MHz	Pass
				0	3.85	-10.014	-0.0059	within 1710-1755MHz	Pass
				10	3.85	1.073	0.0006	within 1710-1755MHz	Pass
				30	3.85	-10.815	-0.0063	within 1710-1755MHz	Pass
				40	3.85	-16.494	-0.0096	within 1710-1755MHz	Pass
				50	3.85	-2.131	-0.0012	within 1710-1755MHz	Pass
	1732.5	6	0	20	3.27	-3.462	-0.0020	within 1710-1755MHz	Pass
					3.85	0.286	0.0002	within 1710-1755MHz	Pass
					4.43	-6.809	-0.0039	within 1710-1755MHz	Pass
				-30	3.85	-3.848	-0.0022	within 1710-1755MHz	Pass
				-20	3.85	-2.818	-0.0016	within 1710-1755MHz	Pass

				-10	3.85	-14.205	-0.0082	within 1710-1755MHz	Pass
				0	3.85	3.505	0.0020	within 1710-1755MHz	Pass
				10	3.85	-8.140	-0.0047	within 1710-1755MHz	Pass
				30	3.85	-16.437	-0.0095	within 1710-1755MHz	Pass
				40	3.85	4.935	0.0028	within 1710-1755MHz	Pass
				50	3.85	-8.998	-0.0052	within 1710-1755MHz	Pass
	1754.3	6	0	20	3.27	-5.407	-0.0031	within 1710-1755MHz	Pass
					3.85	-12.259	-0.0070	within 1710-1755MHz	Pass
					4.43	-15.879	-0.0091	within 1710-1755MHz	Pass
				-30	3.85	-12.374	-0.0071	within 1710-1755MHz	Pass
				-20	3.85	-16.937	-0.0097	within 1710-1755MHz	Pass
				-10	3.85	-11.702	-0.0067	within 1710-1755MHz	Pass
				0	3.85	-2.847	-0.0016	within 1710-1755MHz	Pass
				10	3.85	1.659	0.0009	within 1710-1755MHz	Pass
				30	3.85	0.157	0.0001	within 1710-1755MHz	Pass
				40	3.85	-2.217	-0.0013	within 1710-1755MHz	Pass
				50	3.85	-7.124	-0.0041	within 1710-1755MHz	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	-16.065	-0.0094	within 1710-1755MHz	Pass
					3.85	-8.197	-0.0048	within 1710-1755MHz	Pass
					4.43	-5.450	-0.0032	within 1710-1755MHz	Pass
				-30	3.85	-5.479	-0.0032	within 1710-1755MHz	Pass
				-20	3.85	0.687	0.0004	within 1710-1755MHz	Pass
				-10	3.85	-0.257	-0.0002	within 1710-1755MHz	Pass
				0	3.85	7.739	0.0045	within 1710-1755MHz	Pass
				10	3.85	-16.479	-0.0096	within 1710-1755MHz	Pass
				30	3.85	-11.158	-0.0065	within 1710-1755MHz	Pass
				40	3.85	6.108	0.0036	within 1710-	Pass

								1755MHz	
				50	3.85	-7.267	-0.0042	within 1710-1755MHz	Pass
	1732.5	15	0	20	3.27	-13.275	-0.0077	within 1710-1755MHz	Pass
					3.85	-15.249	-0.0088	within 1710-1755MHz	Pass
					4.43	-3.405	-0.0020	within 1710-1755MHz	Pass
				-30	3.85	-5.736	-0.0033	within 1710-1755MHz	Pass
				-20	3.85	5.593	0.0032	within 1710-1755MHz	Pass
				-10	3.85	-7.968	-0.0046	within 1710-1755MHz	Pass
				0	3.85	-15.821	-0.0091	within 1710-1755MHz	Pass
				10	3.85	5.922	0.0034	within 1710-1755MHz	Pass
				30	3.85	2.389	0.0014	within 1710-1755MHz	Pass
				40	3.85	2.146	0.0012	within 1710-1755MHz	Pass
				50	3.85	-2.360	-0.0014	within 1710-1755MHz	Pass
	1753.5	15	0	20	3.27	-17.953	-0.0102	within 1710-1755MHz	Pass
					3.85	2.160	0.0012	within 1710-1755MHz	Pass
					4.43	-11.129	-0.0063	within 1710-1755MHz	Pass
				-30	3.85	-13.604	-0.0078	within 1710-1755MHz	Pass
				-20	3.85	-14.334	-0.0082	within 1710-1755MHz	Pass
				-10	3.85	2.775	0.0016	within 1710-1755MHz	Pass
				0	3.85	-21.615	-0.0123	within 1710-1755MHz	Pass
				10	3.85	-2.832	-0.0016	within 1710-1755MHz	Pass
				30	3.85	-2.289	-0.0013	within 1710-1755MHz	Pass
				40	3.85	-10.614	-0.0061	within 1710-1755MHz	Pass
				50	3.85	-2.961	-0.0017	within 1710-1755MHz	Pass
	16QAM	1711.5	15	20	3.27	-12.431	-0.0073	within 1710-1755MHz	Pass
					3.85	4.606	0.0027	within 1710-1755MHz	Pass
					4.43	-15.507	-0.0091	within 1710-1755MHz	Pass
				-30	3.85	5.922	0.0035	within 1710-1755MHz	Pass
				-20	3.85	11.601	0.0068	within 1710-1755MHz	Pass
				-10	3.85	-5.021	-0.0029	within 1710-1755MHz	Pass
				0	3.85	0.200	0.0001	within 1710-1755MHz	Pass

				10	3.85	-1.588	-0.0009	within 1710-1755MHz	Pass
				30	3.85	-14.334	-0.0084	within 1710-1755MHz	Pass
				40	3.85	-1.330	-0.0008	within 1710-1755MHz	Pass
				50	3.85	-15.435	-0.0090	within 1710-1755MHz	Pass
	1732.5	15	0	20	3.27	-2.646	-0.0015	within 1710-1755MHz	Pass
					3.85	0.973	0.0006	within 1710-1755MHz	Pass
					4.43	3.119	0.0018	within 1710-1755MHz	Pass
				-30	3.85	2.775	0.0016	within 1710-1755MHz	Pass
				-20	3.85	-3.576	-0.0021	within 1710-1755MHz	Pass
				-10	3.85	-9.842	-0.0057	within 1710-1755MHz	Pass
				0	3.85	0.172	0.0001	within 1710-1755MHz	Pass
				10	3.85	1.144	0.0007	within 1710-1755MHz	Pass
				30	3.85	-17.138	-0.0099	within 1710-1755MHz	Pass
				40	3.85	2.646	0.0015	within 1710-1755MHz	Pass
				50	3.85	-8.597	-0.0050	within 1710-1755MHz	Pass
	1753.5	15	0	20	3.27	-14.234	-0.0081	within 1710-1755MHz	Pass
					3.85	-1.416	-0.0008	within 1710-1755MHz	Pass
					4.43	-19.569	-0.0112	within 1710-1755MHz	Pass
				-30	3.85	9.484	0.0054	within 1710-1755MHz	Pass
				-20	3.85	-16.952	-0.0097	within 1710-1755MHz	Pass
				-10	3.85	-10.114	-0.0058	within 1710-1755MHz	Pass
				0	3.85	2.804	0.0016	within 1710-1755MHz	Pass
				10	3.85	-10.285	-0.0059	within 1710-1755MHz	Pass
				30	3.85	-18.096	-0.0103	within 1710-1755MHz	Pass
				40	3.85	-2.046	-0.0012	within 1710-1755MHz	Pass
				50	3.85	0.215	0.0001	within 1710-1755MHz	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	-8.526	-0.0050	within 1710-	Pass

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Version: 1/00

								1755MHz	
					3.85	-9.513	-0.0056	within 1710-1755MHz	Pass
					4.43	3.119	0.0018	within 1710-1755MHz	Pass
					-30	3.85	-7.825	within 1710-1755MHz	Pass
					-20	3.85	-3.891	within 1710-1755MHz	Pass
					-10	3.85	5.007	within 1710-1755MHz	Pass
					0	3.85	-1.259	within 1710-1755MHz	Pass
					10	3.85	-4.220	within 1710-1755MHz	Pass
					30	3.85	3.490	within 1710-1755MHz	Pass
					40	3.85	3.805	within 1710-1755MHz	Pass
					50	3.85	-6.437	within 1710-1755MHz	Pass
	1732.5	25	0	20	3.27	-14.048	-0.0081	within 1710-1755MHz	Pass
					3.85	-4.163	-0.0024	within 1710-1755MHz	Pass
					4.43	-11.802	-0.0068	within 1710-1755MHz	Pass
				-30	3.85	-8.712	-0.0050	within 1710-1755MHz	Pass
				-20	3.85	-8.097	-0.0047	within 1710-1755MHz	Pass
				-10	3.85	-7.954	-0.0046	within 1710-1755MHz	Pass
				0	3.85	-6.609	-0.0038	within 1710-1755MHz	Pass
				10	3.85	4.506	0.0026	within 1710-1755MHz	Pass
				30	3.85	-4.478	-0.0026	within 1710-1755MHz	Pass
				40	3.85	-17.266	-0.0100	within 1710-1755MHz	Pass
				50	3.85	-8.812	-0.0051	within 1710-1755MHz	Pass
	1752.5	25	0	20	3.27	-12.488	-0.0071	within 1710-1755MHz	Pass
					3.85	-14.563	-0.0083	within 1710-1755MHz	Pass
					4.43	-7.610	-0.0043	within 1710-1755MHz	Pass
				-30	3.85	-9.828	-0.0056	within 1710-1755MHz	Pass
				-20	3.85	-5.894	-0.0034	within 1710-1755MHz	Pass
				-10	3.85	-7.381	-0.0042	within 1710-1755MHz	Pass
				0	3.85	-10.057	-0.0057	within 1710-1755MHz	Pass
				10	3.85	-7.567	-0.0043	within 1710-1755MHz	Pass
				30	3.85	-16.909	-0.0096	within 1710-1755MHz	Pass

				40	3.85	-6.337	-0.0036	within 1710-1755MHz	Pass
				50	3.85	-12.903	-0.0074	within 1710-1755MHz	Pass
16QAM	1712.5	25	0	20	3.27	-0.601	-0.0004	within 1710-1755MHz	Pass
					3.85	2.632	0.0015	within 1710-1755MHz	Pass
					4.43	1.373	0.0008	within 1710-1755MHz	Pass
				-30	3.85	1.101	0.0006	within 1710-1755MHz	Pass
				-20	3.85	-0.672	-0.0004	within 1710-1755MHz	Pass
				-10	3.85	-1.402	-0.0008	within 1710-1755MHz	Pass
				0	3.85	-6.409	-0.0037	within 1710-1755MHz	Pass
				10	3.85	-5.264	-0.0031	within 1710-1755MHz	Pass
				30	3.85	-5.679	-0.0033	within 1710-1755MHz	Pass
				40	3.85	-4.435	-0.0026	within 1710-1755MHz	Pass
				50	3.85	-5.350	-0.0031	within 1710-1755MHz	Pass
	1732.5	25	0	20	3.27	-13.261	-0.0077	within 1710-1755MHz	Pass
					3.85	-4.964	-0.0029	within 1710-1755MHz	Pass
					4.43	-17.810	-0.0103	within 1710-1755MHz	Pass
				-30	3.85	-13.146	-0.0076	within 1710-1755MHz	Pass
				-20	3.85	-13.375	-0.0077	within 1710-1755MHz	Pass
				-10	3.85	-2.761	-0.0016	within 1710-1755MHz	Pass
				0	3.85	-3.633	-0.0021	within 1710-1755MHz	Pass
				10	3.85	-0.029	0.0000	within 1710-1755MHz	Pass
				30	3.85	-16.637	-0.0096	within 1710-1755MHz	Pass
				40	3.85	-8.168	-0.0047	within 1710-1755MHz	Pass
				50	3.85	4.821	0.0028	within 1710-1755MHz	Pass
	1752.5	25	0	20	3.27	0.129	0.0001	within 1710-1755MHz	Pass
					3.85	4.334	0.0025	within 1710-1755MHz	Pass
					4.43	-1.602	-0.0009	within 1710-1755MHz	Pass
				-30	3.85	-0.844	-0.0005	within 1710-1755MHz	Pass
				-20	3.85	-7.896	-0.0045	within 1710-1755MHz	Pass
				-10	3.85	-3.934	-0.0022	within 1710-1755MHz	Pass
				0	3.85	0.916	0.0005	within 1710-	Pass

								1755MHz	
				10	3.85	2.632	0.0015	within 1710-1755MHz	Pass
				30	3.85	-1.359	-0.0008	within 1710-1755MHz	Pass
				40	3.85	2.689	0.0015	within 1710-1755MHz	Pass
				50	3.85	-0.658	-0.0004	within 1710-1755MHz	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	-7.238	-0.0042	within 1710-1755MHz	Pass
					3.85	-3.147	-0.0018	within 1710-1755MHz	Pass
					4.43	-3.004	-0.0018	within 1710-1755MHz	Pass
				-30	3.85	-13.833	-0.0081	within 1710-1755MHz	Pass
				-20	3.85	-11.144	-0.0065	within 1710-1755MHz	Pass
				-10	3.85	-10.085	-0.0059	within 1710-1755MHz	Pass
				0	3.85	-7.567	-0.0044	within 1710-1755MHz	Pass
				10	3.85	1.960	0.0011	within 1710-1755MHz	Pass
				30	3.85	-2.618	-0.0015	within 1710-1755MHz	Pass
				40	3.85	-6.208	-0.0036	within 1710-1755MHz	Pass
	1732.5	50	0	50	3.85	-0.401	-0.0002	within 1710-1755MHz	Pass
				20	3.27	-5.279	-0.0030	within 1710-1755MHz	Pass
					3.85	0.000	0.0000	within 1710-1755MHz	Pass
					4.43	5.279	0.0030	within 1710-1755MHz	Pass
				-30	3.85	8.397	0.0048	within 1710-1755MHz	Pass
				-20	3.85	-3.605	-0.0021	within 1710-1755MHz	Pass
				-10	3.85	-7.453	-0.0043	within 1710-1755MHz	Pass
				0	3.85	1.588	0.0009	within 1710-1755MHz	Pass
				10	3.85	-2.375	-0.0014	within 1710-1755MHz	Pass
				30	3.85	-4.463	-0.0026	within 1710-1755MHz	Pass
				40	3.85	-2.518	-0.0015	within 1710-1755MHz	Pass
				50	3.85	-4.807	-0.0028	within 1710-1755MHz	Pass

	1750	50	0	20	3.27	-5.708	-0.0033	within 1710-1755MHz	Pass
					3.85	-14.062	-0.0080	within 1710-1755MHz	Pass
					4.43	-7.596	-0.0043	within 1710-1755MHz	Pass
				-30	3.85	-0.157	-0.0001	within 1710-1755MHz	Pass
				-20	3.85	-2.046	-0.0012	within 1710-1755MHz	Pass
				-10	3.85	-4.134	-0.0024	within 1710-1755MHz	Pass
				0	3.85	-10.872	-0.0062	within 1710-1755MHz	Pass
				10	3.85	-2.732	-0.0016	within 1710-1755MHz	Pass
				30	3.85	-8.454	-0.0048	within 1710-1755MHz	Pass
				40	3.85	-5.994	-0.0034	within 1710-1755MHz	Pass
				50	3.85	-8.140	-0.0047	within 1710-1755MHz	Pass
16QAM	1715	50	0	20	3.27	-5.908	-0.0034	within 1710-1755MHz	Pass
					3.85	-4.334	-0.0025	within 1710-1755MHz	Pass
					4.43	-6.680	-0.0039	within 1710-1755MHz	Pass
				-30	3.85	-10.242	-0.0060	within 1710-1755MHz	Pass
				-20	3.85	-3.576	-0.0021	within 1710-1755MHz	Pass
				-10	3.85	-4.807	-0.0028	within 1710-1755MHz	Pass
				0	3.85	-4.177	-0.0024	within 1710-1755MHz	Pass
				10	3.85	-8.082	-0.0047	within 1710-1755MHz	Pass
				30	3.85	0.372	0.0002	within 1710-1755MHz	Pass
				40	3.85	-6.466	-0.0038	within 1710-1755MHz	Pass
				50	3.85	-0.758	-0.0004	within 1710-1755MHz	Pass
	1732.5	50	0	20	3.27	1.116	0.0006	within 1710-1755MHz	Pass
					3.85	-6.037	-0.0035	within 1710-1755MHz	Pass
					4.43	-10.986	-0.0063	within 1710-1755MHz	Pass
				-30	3.85	-6.080	-0.0035	within 1710-1755MHz	Pass
				-20	3.85	-0.315	-0.0002	within 1710-1755MHz	Pass
				-10	3.85	-12.817	-0.0074	within 1710-1755MHz	Pass
				0	3.85	0.815	0.0005	within 1710-1755MHz	Pass
				10	3.85	-12.102	-0.0070	within 1710-1755MHz	Pass
				30	3.85	-2.403	-0.0014	within 1710-	Pass

								1755MHz	
				40	3.85	-5.522	-0.0032	within 1710-1755MHz	Pass
				50	3.85	-0.758	-0.0004	within 1710-1755MHz	Pass
	1750	50	0	20	3.27	-6.294	-0.0036	within 1710-1755MHz	Pass
					3.85	-9.427	-0.0054	within 1710-1755MHz	Pass
					4.43	-0.229	-0.0001	within 1710-1755MHz	Pass
				-30	3.85	-6.008	-0.0034	within 1710-1755MHz	Pass
				-20	3.85	-1.273	-0.0007	within 1710-1755MHz	Pass
				-10	3.85	-4.606	-0.0026	within 1710-1755MHz	Pass
				0	3.85	-4.334	-0.0025	within 1710-1755MHz	Pass
				10	3.85	4.349	0.0025	within 1710-1755MHz	Pass
				30	3.85	-2.532	-0.0014	within 1710-1755MHz	Pass
				40	3.85	-1.788	-0.0010	within 1710-1755MHz	Pass
				50	3.85	0.358	0.0002	within 1710-1755MHz	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	-7.224	-0.0042	within 1710-1755MHz	Pass
					3.85	-5.665	-0.0033	within 1710-1755MHz	Pass
					4.43	-3.705	-0.0022	within 1710-1755MHz	Pass
				-30	3.85	-3.948	-0.0023	within 1710-1755MHz	Pass
				-20	3.85	2.003	0.0012	within 1710-1755MHz	Pass
				-10	3.85	-3.405	-0.0020	within 1710-1755MHz	Pass
				0	3.85	-3.219	-0.0019	within 1710-1755MHz	Pass
				10	3.85	-7.052	-0.0041	within 1710-1755MHz	Pass
				30	3.85	-5.178	-0.0030	within 1710-1755MHz	Pass
				40	3.85	-3.076	-0.0018	within 1710-1755MHz	Pass
				50	3.85	-6.666	-0.0039	within 1710-1755MHz	Pass
	1732.5	75	0	20	3.27	0.343	0.0002	within 1710-1755MHz	Pass
					3.85	-1.445	-0.0008	within 1710-1755MHz	Pass

					4.43	-5.221	-0.0030	within 1710-1755MHz	Pass
				-30	3.85	-2.661	-0.0015	within 1710-1755MHz	Pass
				-20	3.85	-4.091	-0.0024	within 1710-1755MHz	Pass
				-10	3.85	-3.977	-0.0023	within 1710-1755MHz	Pass
				0	3.85	-7.811	-0.0045	within 1710-1755MHz	Pass
				10	3.85	-14.834	-0.0086	within 1710-1755MHz	Pass
				30	3.85	-7.153	-0.0041	within 1710-1755MHz	Pass
				40	3.85	-5.507	-0.0032	within 1710-1755MHz	Pass
				50	3.85	-3.290	-0.0019	within 1710-1755MHz	Pass
	1747.5	75	0	20	3.27	-9.484	-0.0054	within 1710-1755MHz	Pass
					3.85	-3.819	-0.0022	within 1710-1755MHz	Pass
					4.43	-9.727	-0.0056	within 1710-1755MHz	Pass
				-30	3.85	-13.504	-0.0077	within 1710-1755MHz	Pass
				-20	3.85	-0.443	-0.0003	within 1710-1755MHz	Pass
				-10	3.85	-15.321	-0.0088	within 1710-1755MHz	Pass
				0	3.85	-5.565	-0.0032	within 1710-1755MHz	Pass
				10	3.85	-9.112	-0.0052	within 1710-1755MHz	Pass
				30	3.85	-9.341	-0.0053	within 1710-1755MHz	Pass
				40	3.85	-5.951	-0.0034	within 1710-1755MHz	Pass
16QAM	1717.5	75	0	20	3.27	-9.756	-0.0057	within 1710-1755MHz	Pass
					3.85	-8.869	-0.0052	within 1710-1755MHz	Pass
					4.43	-6.008	-0.0035	within 1710-1755MHz	Pass
				-30	3.85	-2.275	-0.0013	within 1710-1755MHz	Pass
				-20	3.85	-3.018	-0.0018	within 1710-1755MHz	Pass
				-10	3.85	-11.687	-0.0068	within 1710-1755MHz	Pass
				0	3.85	-7.010	-0.0041	within 1710-1755MHz	Pass
				10	3.85	-5.021	-0.0029	within 1710-1755MHz	Pass
				30	3.85	-5.293	-0.0031	within 1710-1755MHz	Pass
				40	3.85	-8.125	-0.0047	within 1710-1755MHz	Pass
				50	3.85	-6.208	-0.0036	within 1710-	Pass

	1732.5	75	0	20	3.27	-0.715	-0.0004	1755MHz within 1710-1755MHz	Pass
					3.85	5.064	0.0029	within 1710-1755MHz	Pass
					4.43	-8.898	-0.0051	within 1710-1755MHz	Pass
				-30	3.85	-1.516	-0.0009	within 1710-1755MHz	Pass
				-20	3.85	-5.937	-0.0034	within 1710-1755MHz	Pass
				-10	3.85	-2.446	-0.0014	within 1710-1755MHz	Pass
				0	3.85	-4.449	-0.0026	within 1710-1755MHz	Pass
				10	3.85	-0.129	-0.0001	within 1710-1755MHz	Pass
				30	3.85	-0.758	-0.0004	within 1710-1755MHz	Pass
				40	3.85	-2.532	-0.0015	within 1710-1755MHz	Pass
	1747.5	75	0	50	3.85	-8.025	-0.0046	within 1710-1755MHz	Pass
				20	3.27	-9.828	-0.0056	within 1710-1755MHz	Pass
					3.85	-4.663	-0.0027	within 1710-1755MHz	Pass
					4.43	-8.411	-0.0048	within 1710-1755MHz	Pass
				-30	3.85	-7.396	-0.0042	within 1710-1755MHz	Pass
				-20	3.85	-12.374	-0.0071	within 1710-1755MHz	Pass
				-10	3.85	-4.635	-0.0027	within 1710-1755MHz	Pass
				0	3.85	-2.332	-0.0013	within 1710-1755MHz	Pass
				10	3.85	1.001	0.0006	within 1710-1755MHz	Pass
				30	3.85	-7.238	-0.0041	within 1710-1755MHz	Pass
				40	3.85	-8.883	-0.0051	within 1710-1755MHz	Pass
				50	3.85	-0.129	-0.0001	within 1710-1755MHz	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	-4.549	-0.0026	within 1710-1755MHz	Pass
					3.85	-4.120	-0.0024	within 1710-1755MHz	Pass
					4.43	-2.561	-0.0015	within 1710-1755MHz	Pass
				-30	3.85	-7.753	-0.0045	within 1710-1755MHz	Pass

				-20	3.85	-2.961	-0.0017	within 1710-1755MHz	Pass
				-10	3.85	-1.330	-0.0008	within 1710-1755MHz	Pass
				0	3.85	-1.602	-0.0009	within 1710-1755MHz	Pass
				10	3.85	-6.738	-0.0039	within 1710-1755MHz	Pass
				30	3.85	-4.821	-0.0028	within 1710-1755MHz	Pass
				40	3.85	3.691	0.0021	within 1710-1755MHz	Pass
				50	3.85	-2.074	-0.0012	within 1710-1755MHz	Pass
	1732.5	100	0	20	3.27	-2.832	-0.0016	within 1710-1755MHz	Pass
					3.85	4.034	0.0023	within 1710-1755MHz	Pass
					4.43	0.744	0.0004	within 1710-1755MHz	Pass
				-30	3.85	-1.788	-0.0010	within 1710-1755MHz	Pass
				-20	3.85	-8.783	-0.0051	within 1710-1755MHz	Pass
				-10	3.85	-1.574	-0.0009	within 1710-1755MHz	Pass
				0	3.85	-5.336	-0.0031	within 1710-1755MHz	Pass
				10	3.85	-2.604	-0.0015	within 1710-1755MHz	Pass
				30	3.85	-1.388	-0.0008	within 1710-1755MHz	Pass
				40	3.85	-2.689	-0.0016	within 1710-1755MHz	Pass
				50	3.85	-5.636	-0.0033	within 1710-1755MHz	Pass
	1745	100	0	20	3.27	-7.396	-0.0042	within 1710-1755MHz	Pass
					3.85	2.575	0.0015	within 1710-1755MHz	Pass
					4.43	-4.563	-0.0026	within 1710-1755MHz	Pass
				-30	3.85	-7.710	-0.0044	within 1710-1755MHz	Pass
				-20	3.85	-3.748	-0.0021	within 1710-1755MHz	Pass
				-10	3.85	-0.200	-0.0001	within 1710-1755MHz	Pass
				0	3.85	-4.921	-0.0028	within 1710-1755MHz	Pass
				10	3.85	-10.672	-0.0061	within 1710-1755MHz	Pass
				30	3.85	1.402	0.0008	within 1710-1755MHz	Pass
				40	3.85	-2.761	-0.0016	within 1710-1755MHz	Pass
				50	3.85	-4.935	-0.0028	within 1710-1755MHz	Pass
	16QAM	1720	100	20	3.27	-4.220	-0.0025	within 1710-1755MHz	Pass
					3.85	-4.535	-0.0026	within 1710-	Pass

								1755MHz	
					4.43	3.119	0.0018	within 1710-1755MHz	Pass
				-30	3.85	-7.038	-0.0041	within 1710-1755MHz	Pass
				-20	3.85	-8.683	-0.0050	within 1710-1755MHz	Pass
				-10	3.85	-5.465	-0.0032	within 1710-1755MHz	Pass
				0	3.85	-4.892	-0.0028	within 1710-1755MHz	Pass
				10	3.85	-3.834	-0.0022	within 1710-1755MHz	Pass
				30	3.85	-13.719	-0.0080	within 1710-1755MHz	Pass
				40	3.85	-2.561	-0.0015	within 1710-1755MHz	Pass
				50	3.85	-4.377	-0.0025	within 1710-1755MHz	Pass
	1732.5	100	0	20	3.27	2.589	0.0015	within 1710-1755MHz	Pass
					3.85	-0.572	-0.0003	within 1710-1755MHz	Pass
					4.43	-6.108	-0.0035	within 1710-1755MHz	Pass
				-30	3.85	4.678	0.0027	within 1710-1755MHz	Pass
				-20	3.85	-5.980	-0.0035	within 1710-1755MHz	Pass
				-10	3.85	0.801	0.0005	within 1710-1755MHz	Pass
				0	3.85	-8.998	-0.0052	within 1710-1755MHz	Pass
				10	3.85	-5.322	-0.0031	within 1710-1755MHz	Pass
				30	3.85	-3.791	-0.0022	within 1710-1755MHz	Pass
				40	3.85	-3.190	-0.0018	within 1710-1755MHz	Pass
				50	3.85	-8.025	-0.0046	within 1710-1755MHz	Pass
	1745	100	0	20	3.27	2.775	0.0016	within 1710-1755MHz	Pass
					3.85	-1.874	-0.0011	within 1710-1755MHz	Pass
					4.43	-4.106	-0.0024	within 1710-1755MHz	Pass
				-30	3.85	-3.004	-0.0017	within 1710-1755MHz	Pass
				-20	3.85	-13.618	-0.0078	within 1710-1755MHz	Pass
				-10	3.85	-2.360	-0.0014	within 1710-1755MHz	Pass
				0	3.85	4.177	0.0024	within 1710-1755MHz	Pass
				10	3.85	-3.362	-0.0019	within 1710-1755MHz	Pass
				30	3.85	-1.616	-0.0009	within 1710-1755MHz	Pass
				40	3.85	-6.008	-0.0034	within 1710-1755MHz	Pass

				50	3.85	-3.004	-0.0017	within 1710-1755MHz	Pass
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3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

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

3.1.3 B4_5MHz

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

3.1.4 B4_10MHz

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

3.1.5 B4_15MHz

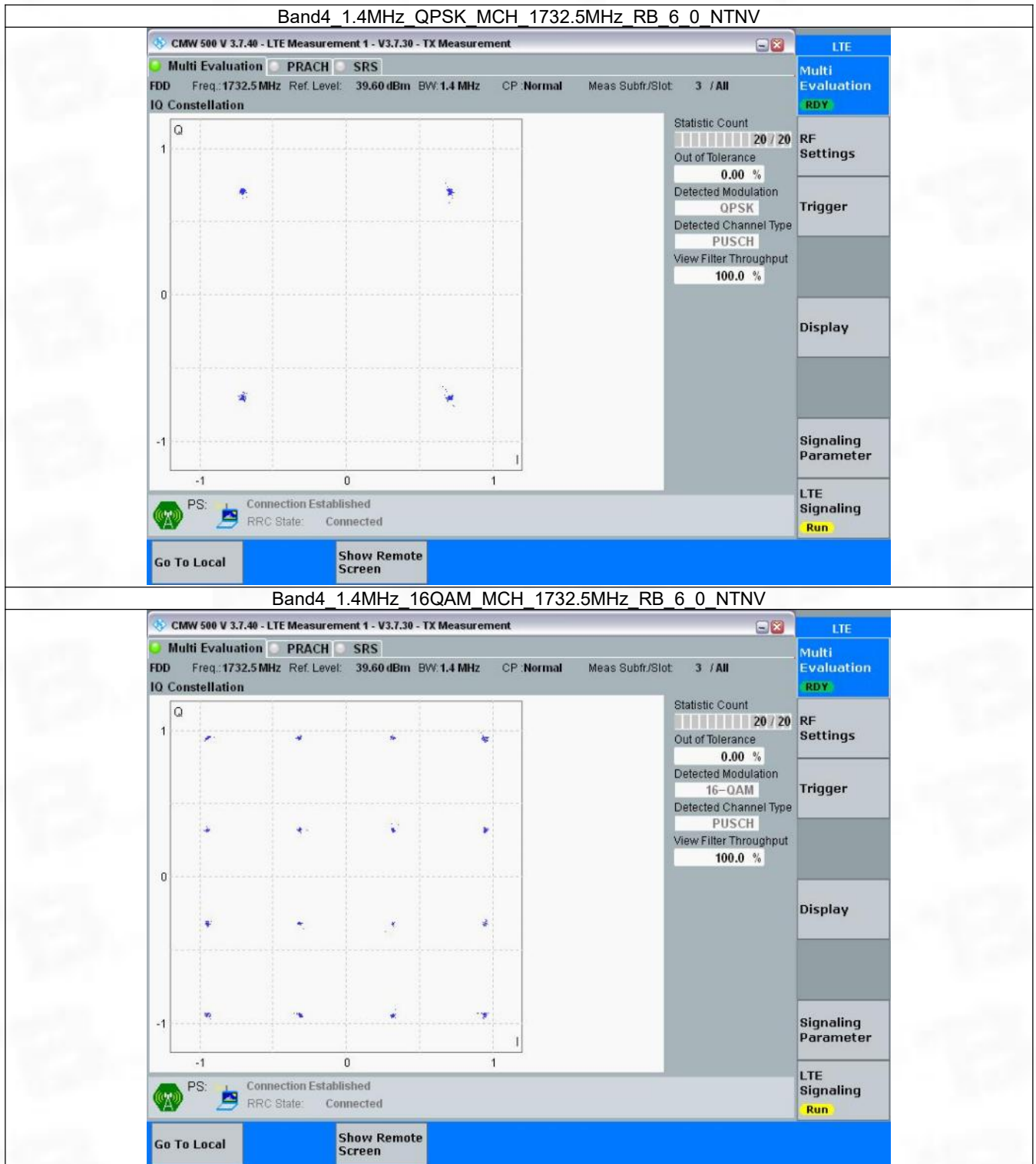
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

3.1.6 B4_20MHz

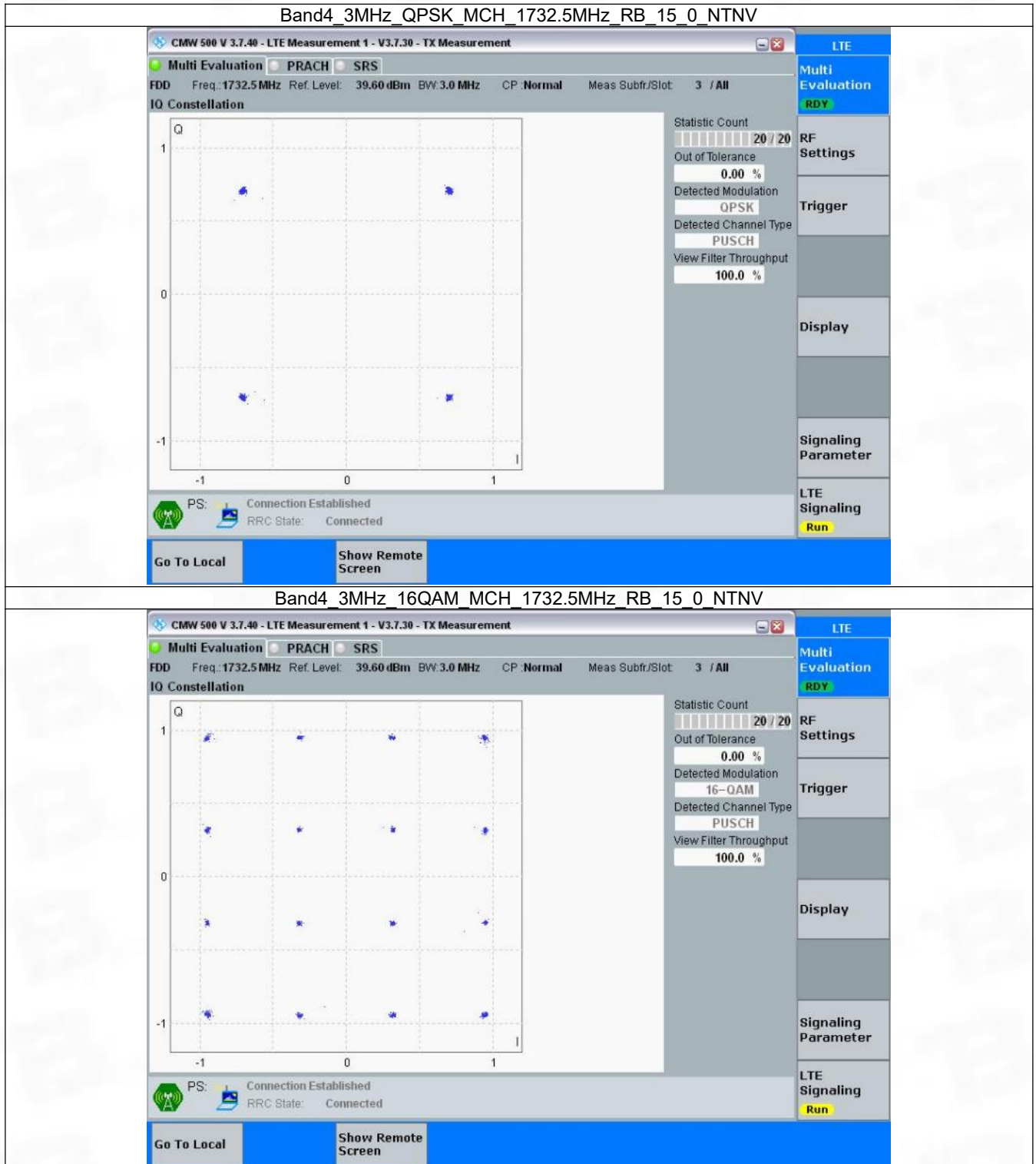
Band: 4 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	
16QAM	1732.5	100	0	Refer To Test Graph	
					Verdict
					Pass
					Pass

3.2 Test Graph

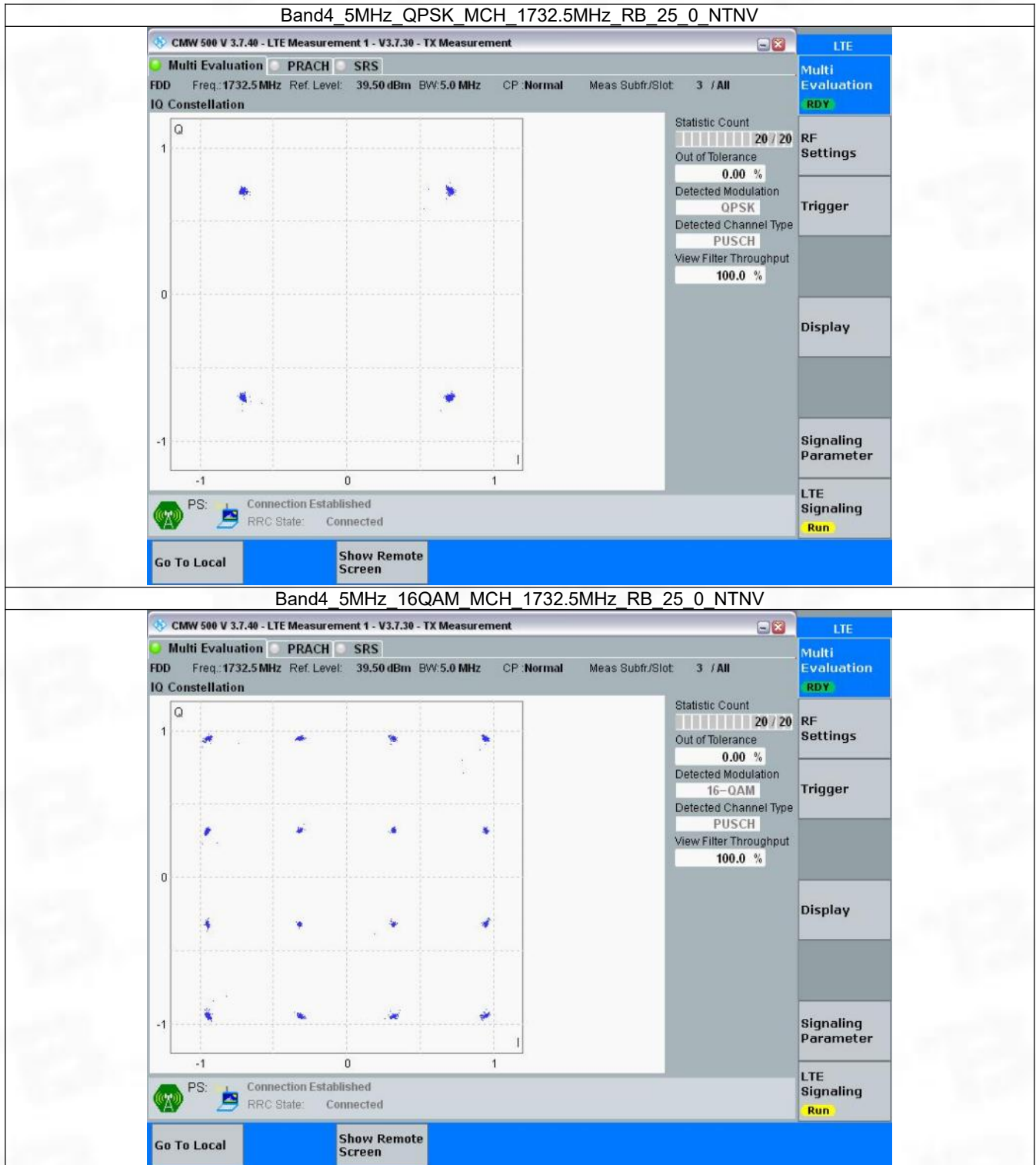
3.2.1 B4_1.4MHz



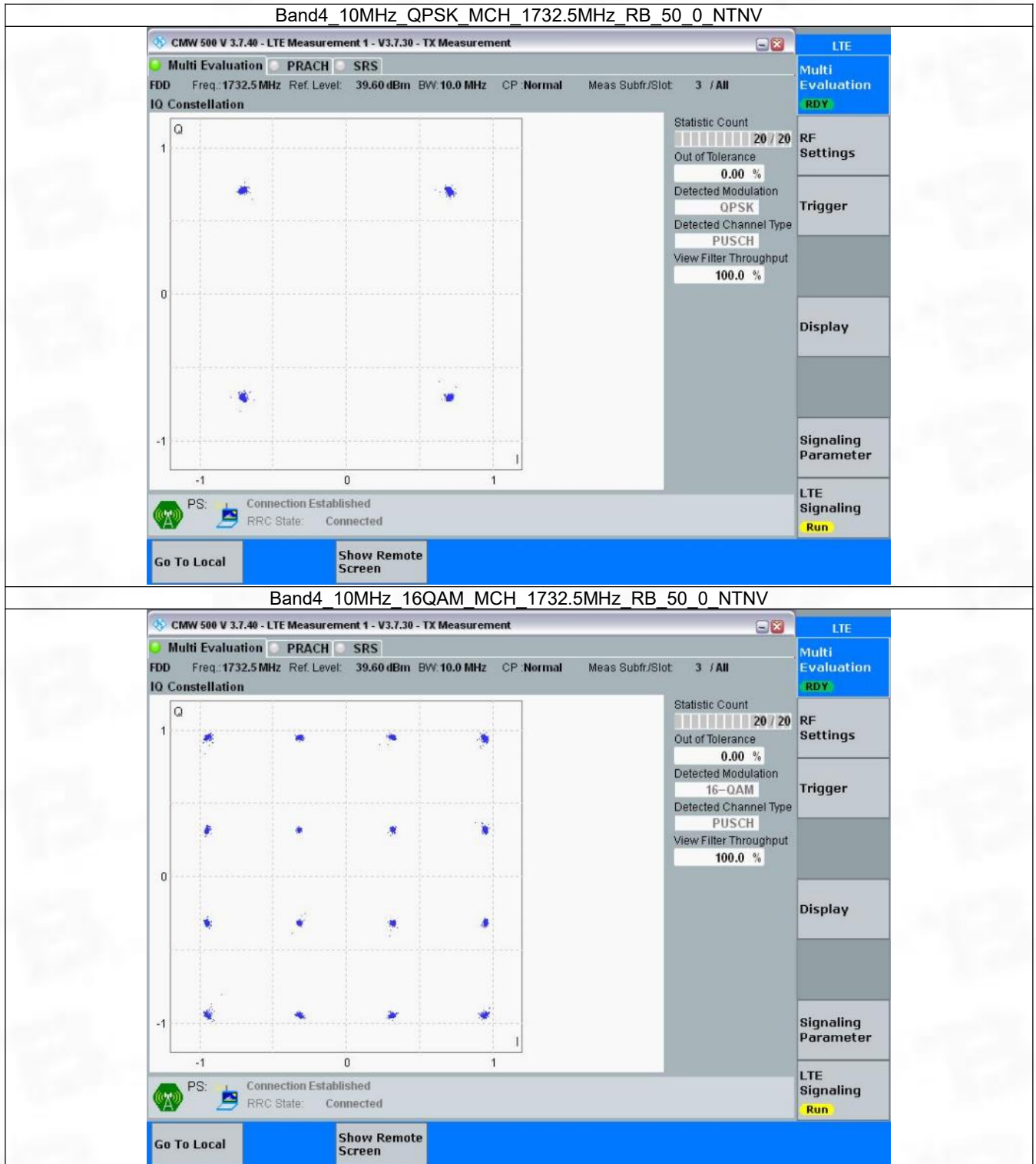
3.2.2 B4_3MHz



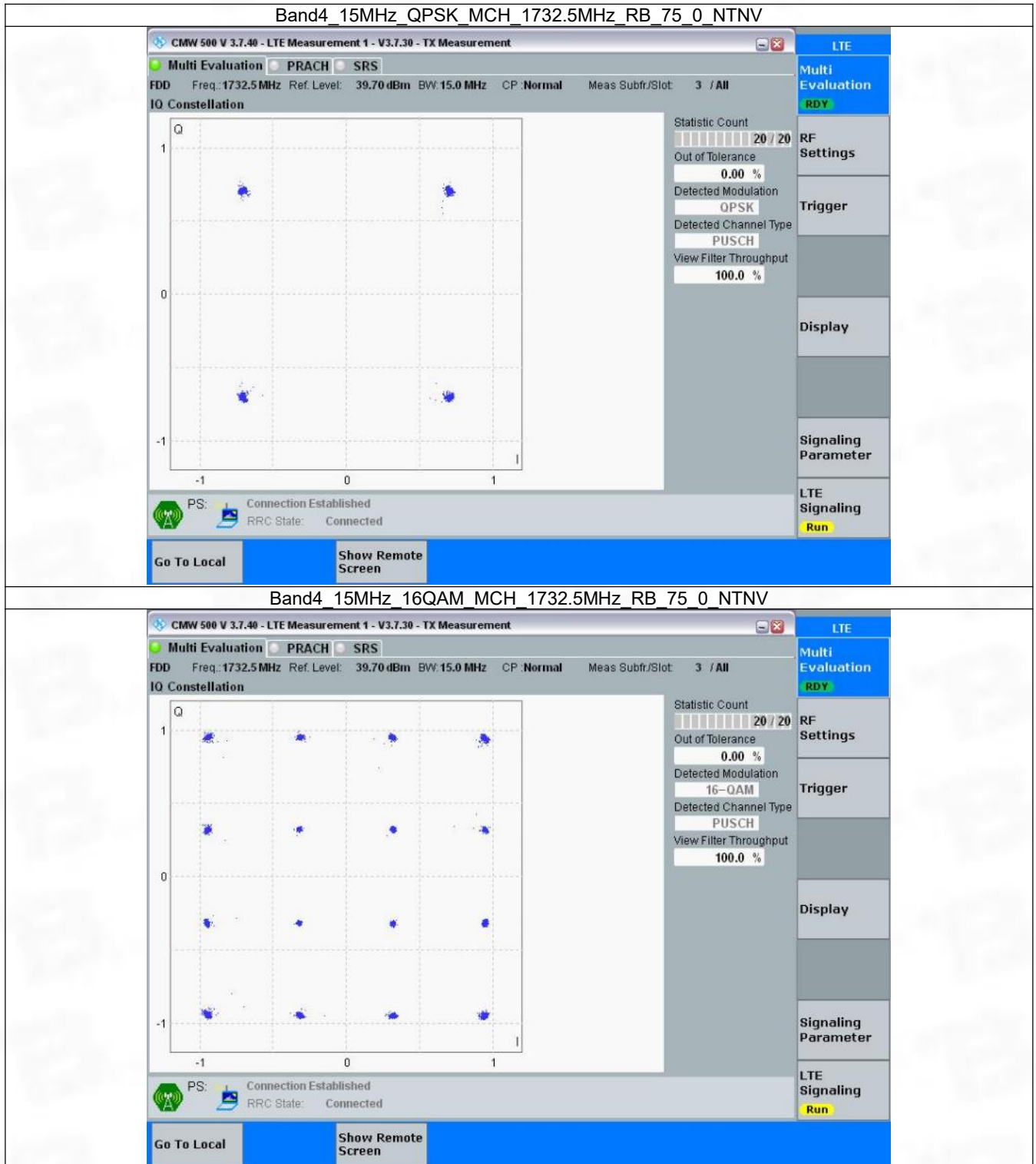
3.2.3 B4_5MHz



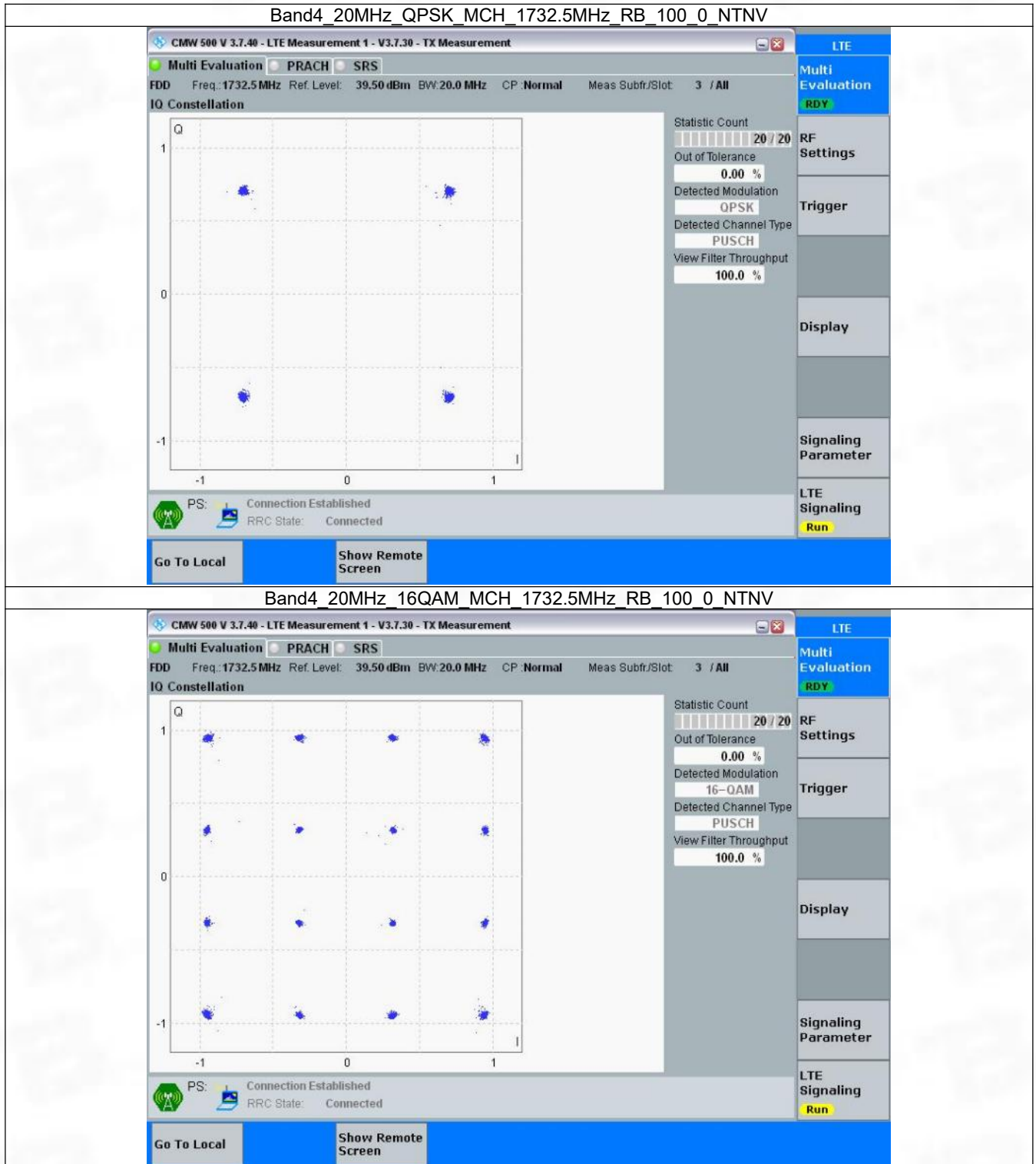
3.2.4 B4_10MHz



3.2.5 B4_15MHz



3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.088	/	Pass
		1732.5	6	0	1.083	/	Pass
		1754.3	6	0	1.085	/	Pass
	16QAM	1710.7	6	0	1.088	/	Pass
		1732.5	6	0	1.081	/	Pass
		1754.3	6	0	1.082	/	Pass
3	QPSK	1711.5	15	0	2.686	/	Pass
		1732.5	15	0	2.689	/	Pass
		1753.5	15	0	2.685	/	Pass
	16QAM	1711.5	15	0	2.682	/	Pass
		1732.5	15	0	2.677	/	Pass
		1753.5	15	0	2.681	/	Pass
5	QPSK	1712.5	25	0	4.515	/	Pass
		1732.5	25	0	4.524	/	Pass
		1752.5	25	0	4.532	/	Pass
	16QAM	1712.5	25	0	4.532	/	Pass
		1732.5	25	0	4.522	/	Pass
		1752.5	25	0	4.507	/	Pass
10	QPSK	1715	50	0	8.972	/	Pass
		1732.5	50	0	8.950	/	Pass
		1750	50	0	8.965	/	Pass
	16QAM	1715	50	0	8.977	/	Pass
		1732.5	50	0	8.963	/	Pass
		1750	50	0	8.950	/	Pass
15	QPSK	1717.5	75	0	13.462	/	Pass
		1732.5	75	0	13.438	/	Pass
		1747.5	75	0	13.456	/	Pass
	16QAM	1717.5	75	0	13.463	/	Pass
		1732.5	75	0	13.431	/	Pass
		1747.5	75	0	13.448	/	Pass
20	QPSK	1720	100	0	17.870	/	Pass
		1732.5	100	0	17.880	/	Pass
		1745	100	0	17.877	/	Pass
	16QAM	1720	100	0	17.935	/	Pass
		1732.5	100	0	17.918	/	Pass
		1745	100	0	17.889	/	Pass

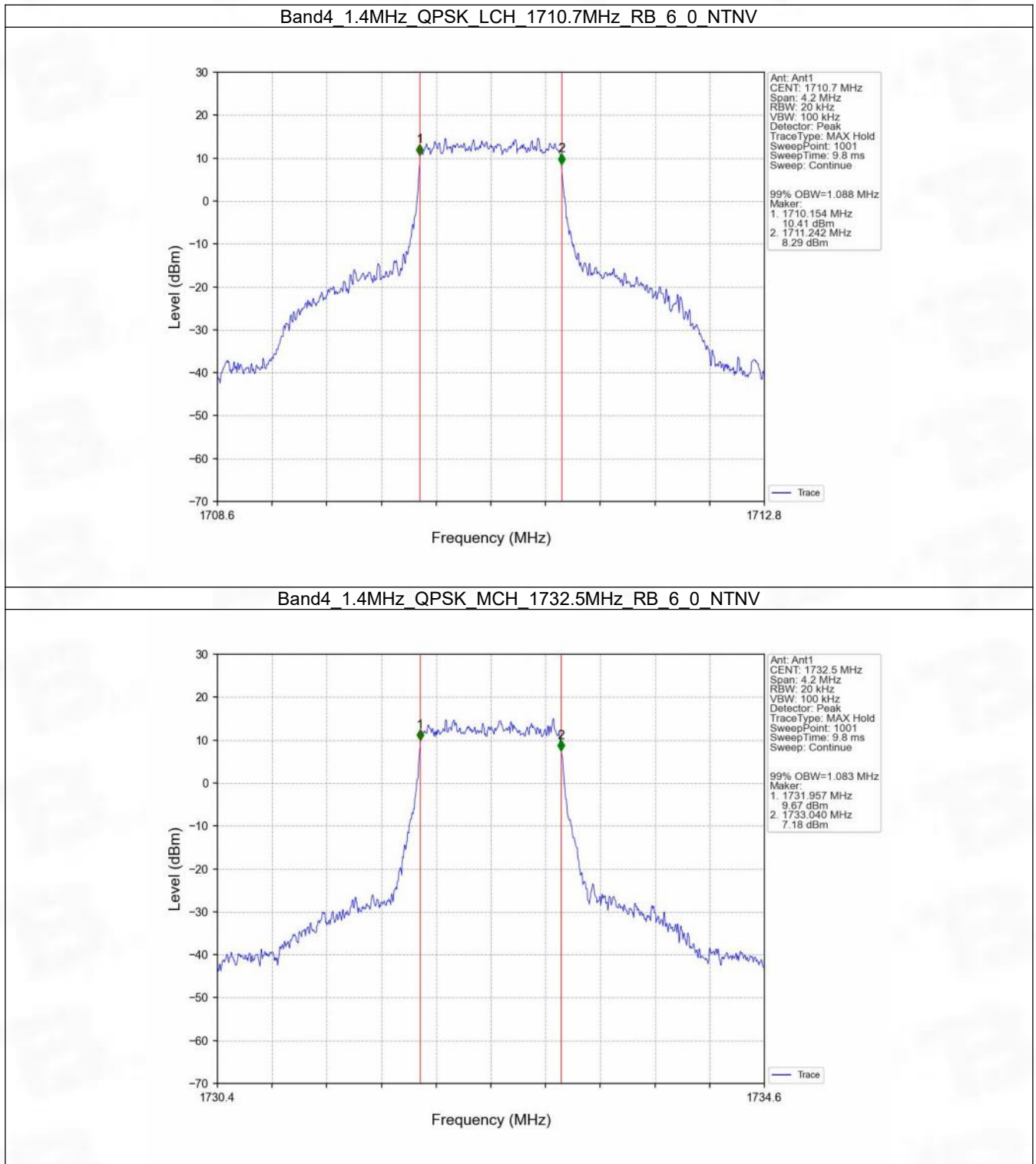
4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.275	/	Pass
		1732.5	6	0	1.253	/	Pass
		1754.3	6	0	1.273	/	Pass

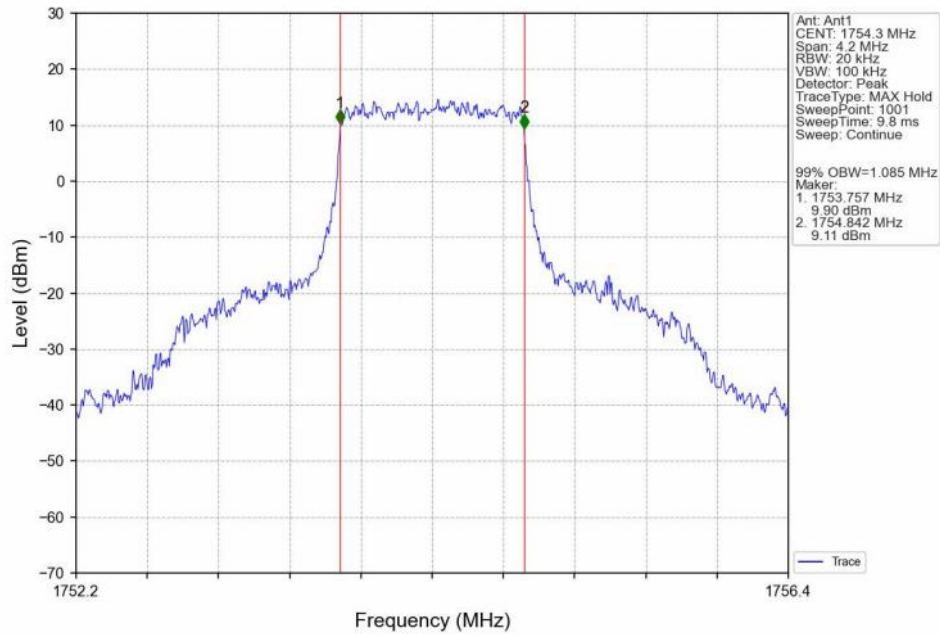
	16QAM	1710.7	6	0	1.291	/	Pass
		1732.5	6	0	1.250	/	Pass
		1754.3	6	0	1.241	/	Pass
3	QPSK	1711.5	15	0	2.886	/	Pass
		1732.5	15	0	2.864	/	Pass
		1753.5	15	0	2.867	/	Pass
	16QAM	1711.5	15	0	2.882	/	Pass
		1732.5	15	0	2.879	/	Pass
		1753.5	15	0	2.864	/	Pass
5	QPSK	1712.5	25	0	4.951	/	Pass
		1732.5	25	0	4.897	/	Pass
		1752.5	25	0	5.350	/	Pass
	16QAM	1712.5	25	0	4.974	/	Pass
		1732.5	25	0	4.966	/	Pass
		1752.5	25	0	4.934	/	Pass
10	QPSK	1715	50	0	9.558	/	Pass
		1732.5	50	0	9.529	/	Pass
		1750	50	0	9.630	/	Pass
	16QAM	1715	50	0	9.612	/	Pass
		1732.5	50	0	9.548	/	Pass
		1750	50	0	9.555	/	Pass
15	QPSK	1717.5	75	0	14.504	/	Pass
		1732.5	75	0	14.464	/	Pass
		1747.5	75	0	14.581	/	Pass
	16QAM	1717.5	75	0	14.405	/	Pass
		1732.5	75	0	14.490	/	Pass
		1747.5	75	0	14.467	/	Pass
20	QPSK	1720	100	0	19.075	/	Pass
		1732.5	100	0	18.962	/	Pass
		1745	100	0	19.005	/	Pass
	16QAM	1720	100	0	19.061	/	Pass
		1732.5	100	0	19.094	/	Pass
		1745	100	0	18.950	/	Pass

4.2 Test Graph

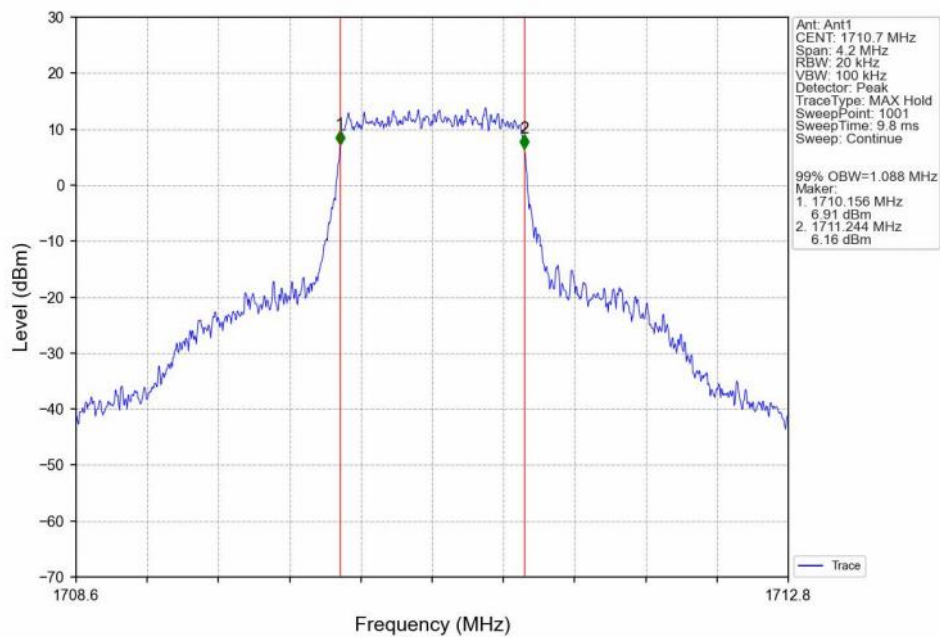
4.2.1 Band4_OBW



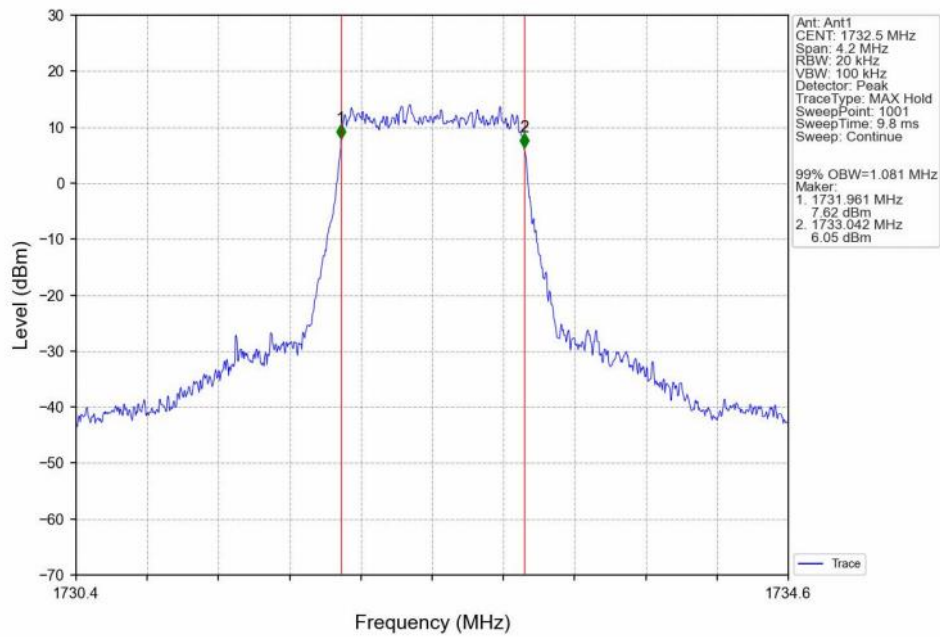
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



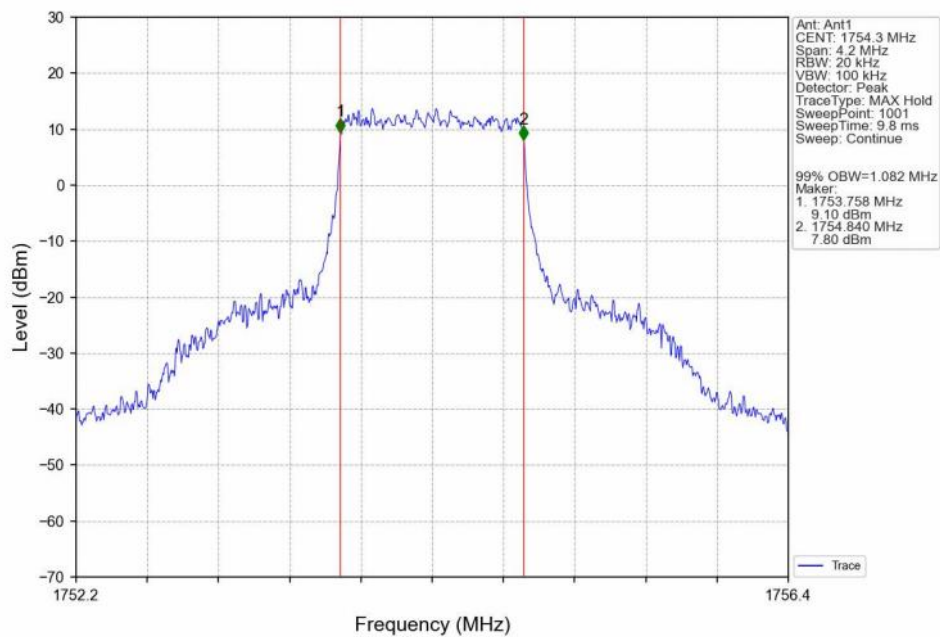
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



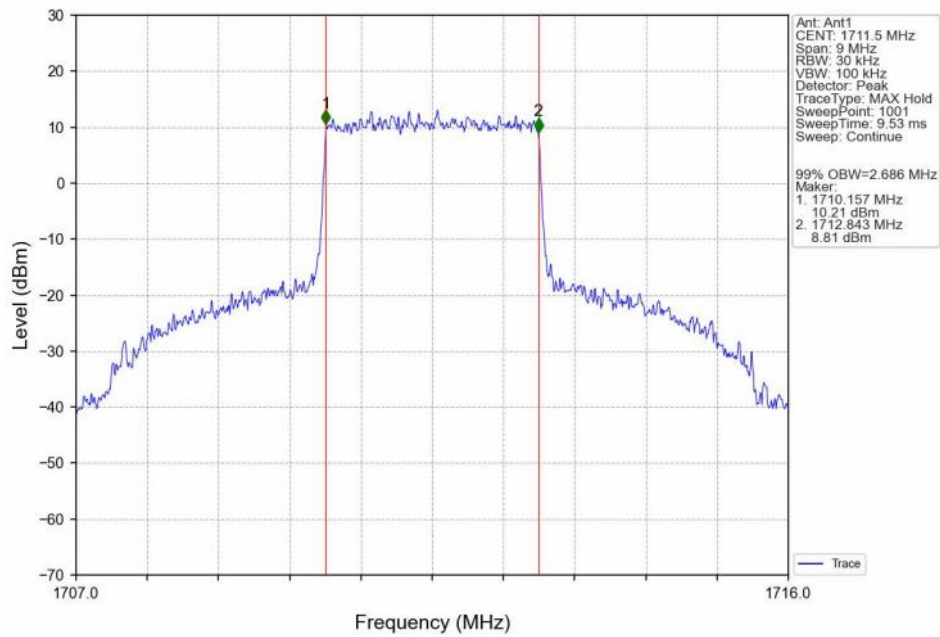
Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



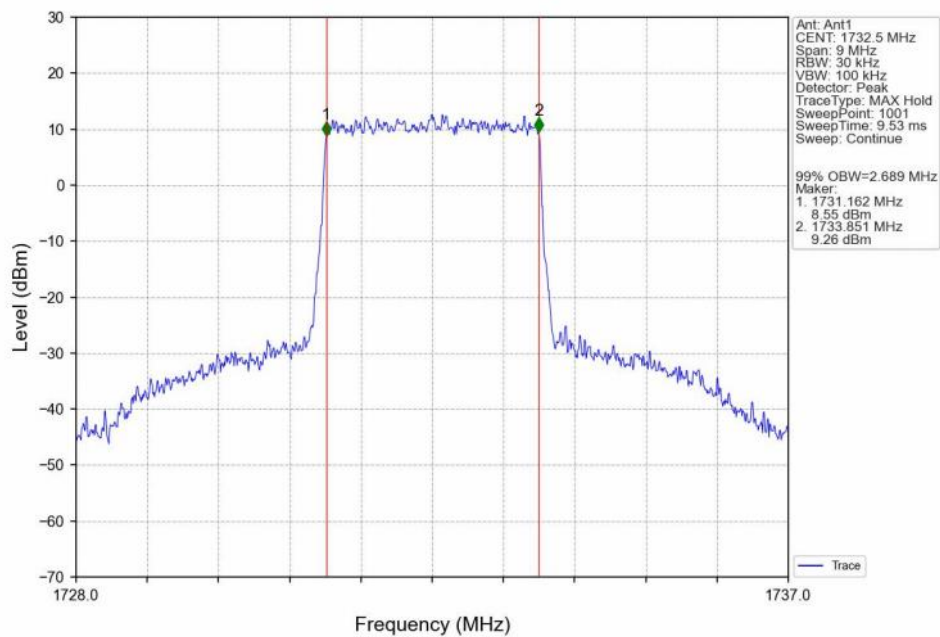
Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



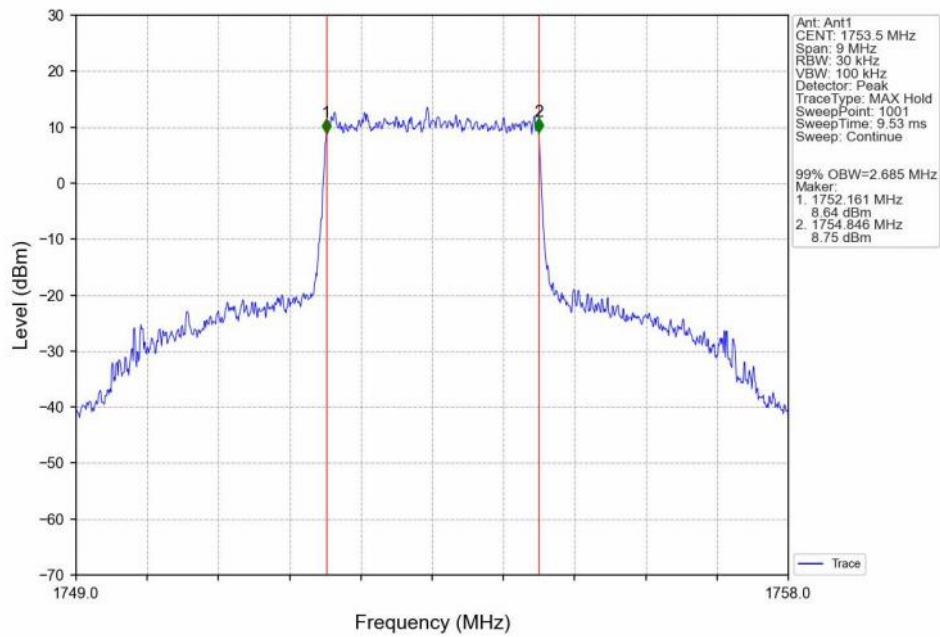
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



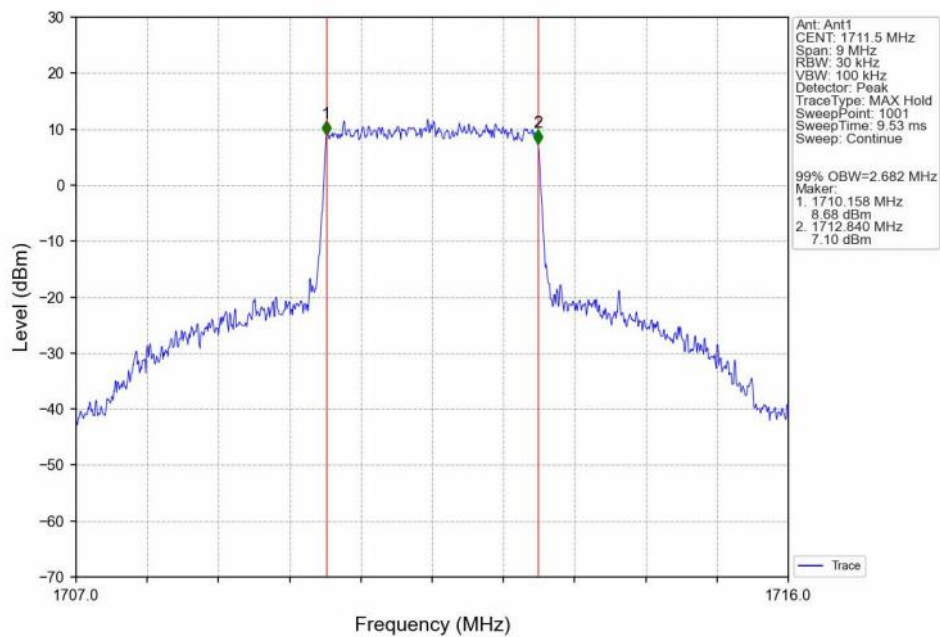
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



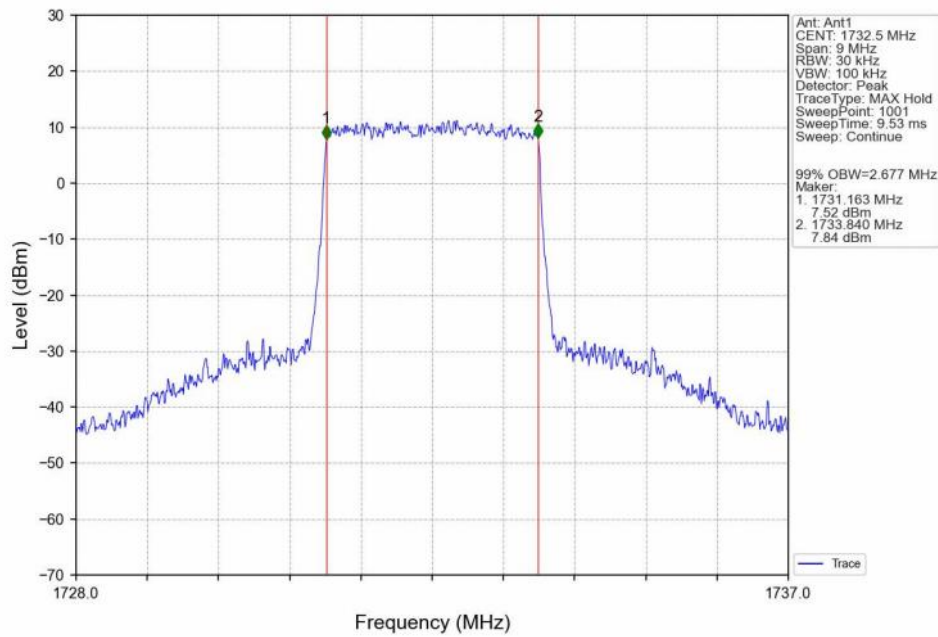
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



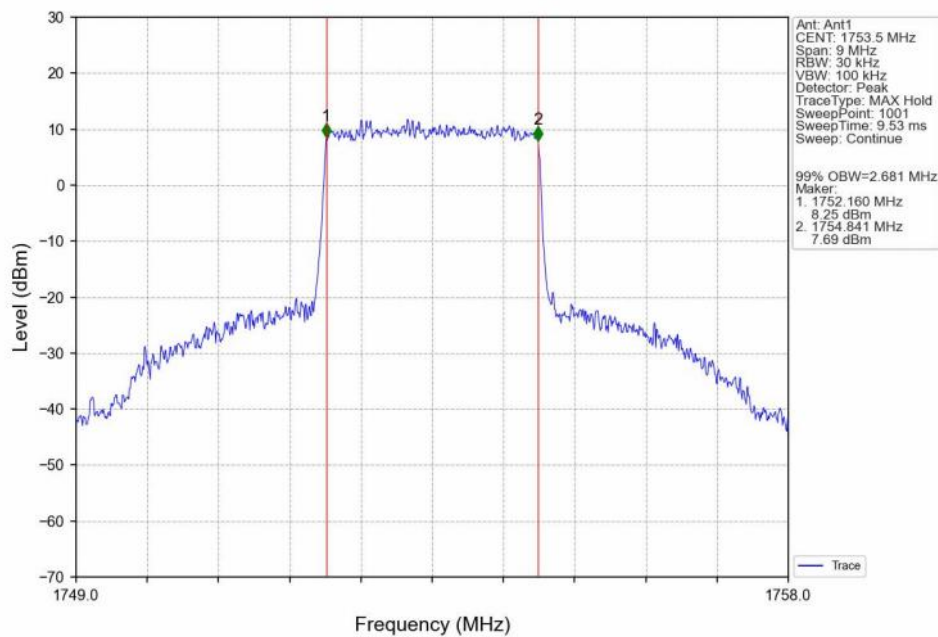
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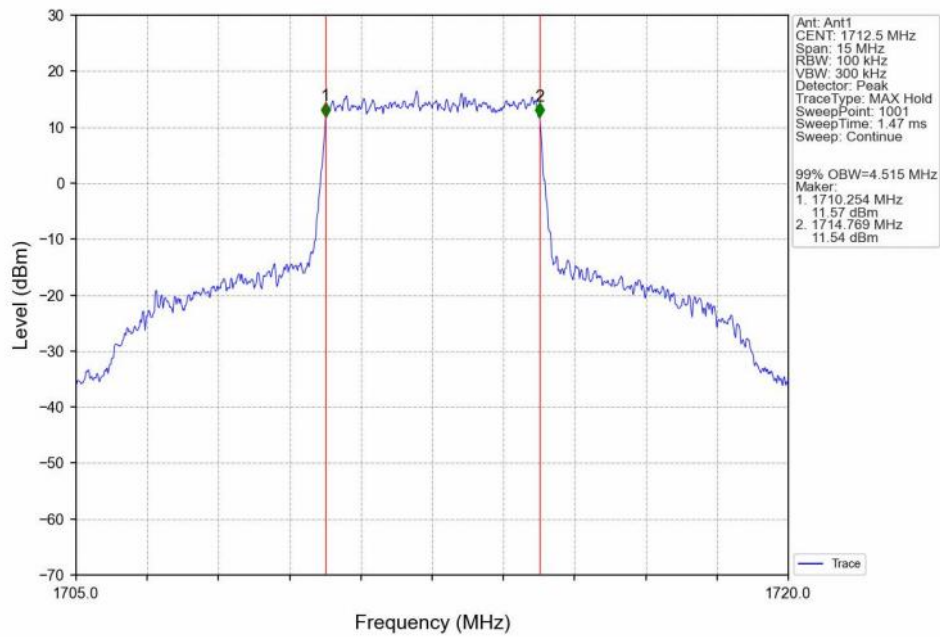
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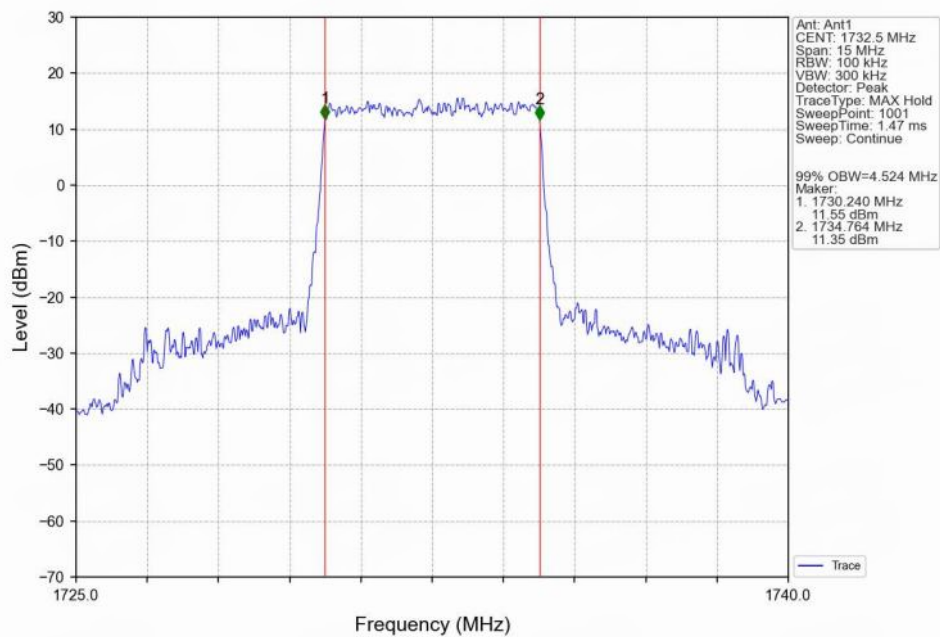
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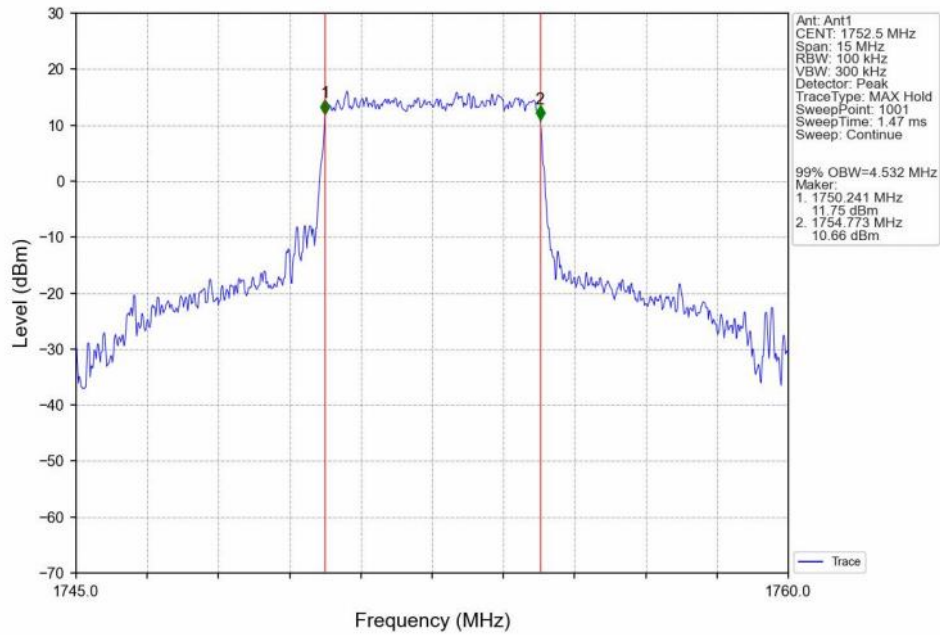
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



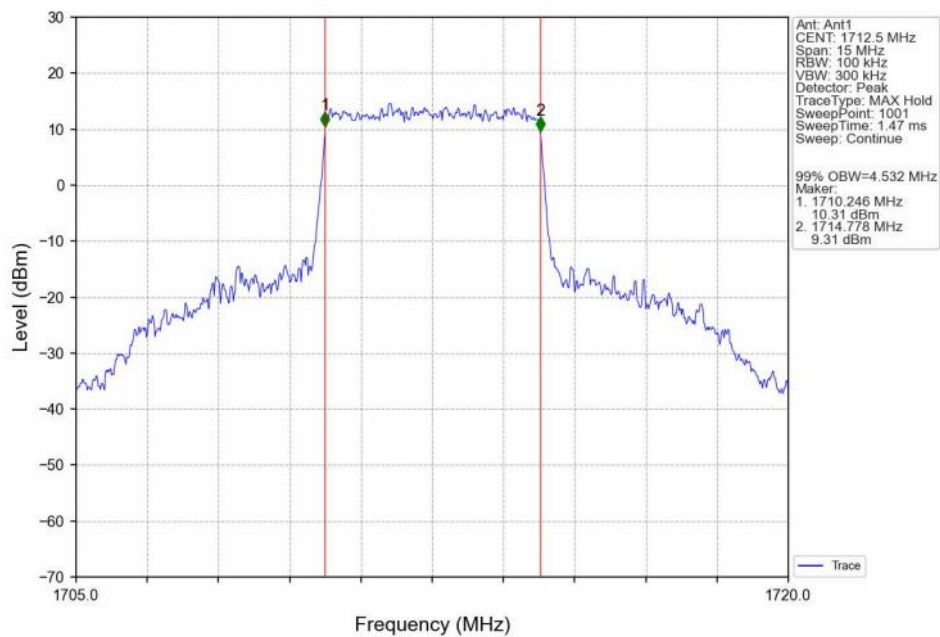
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



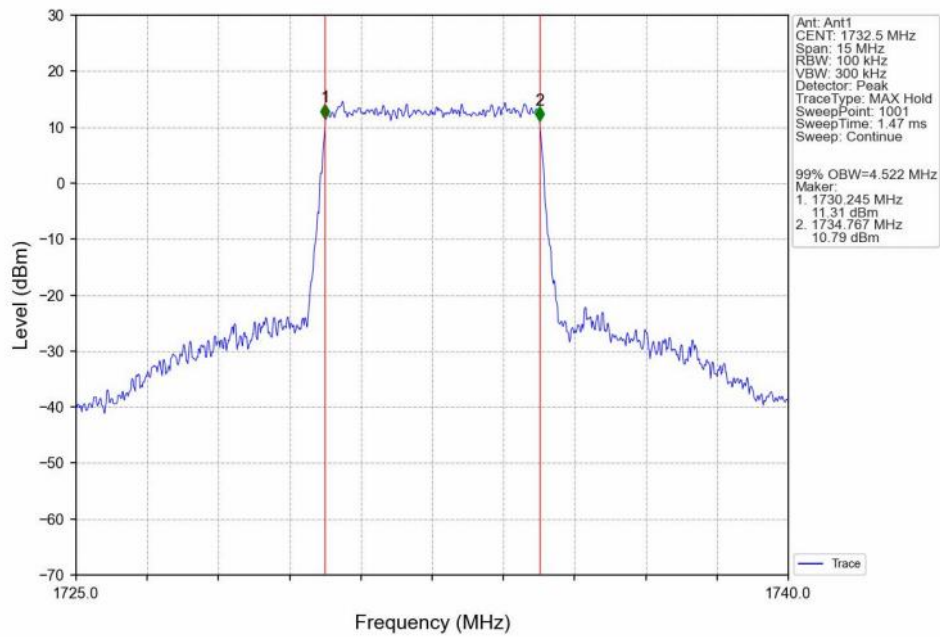
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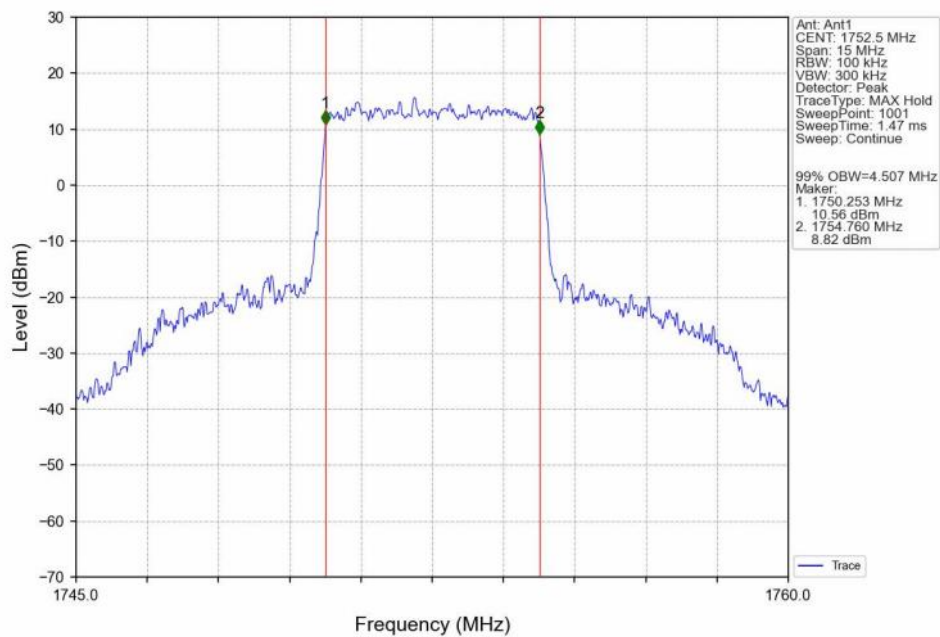
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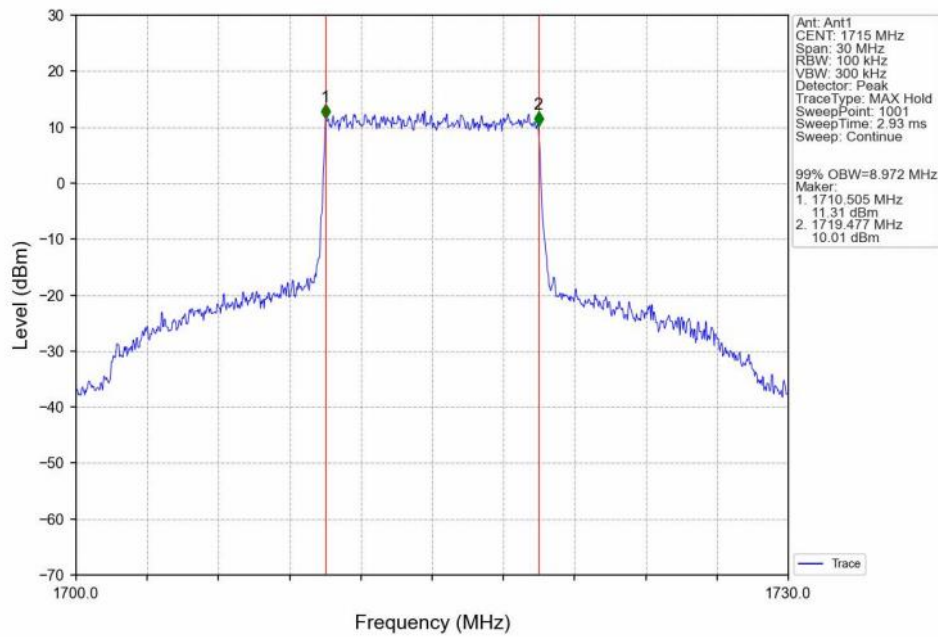
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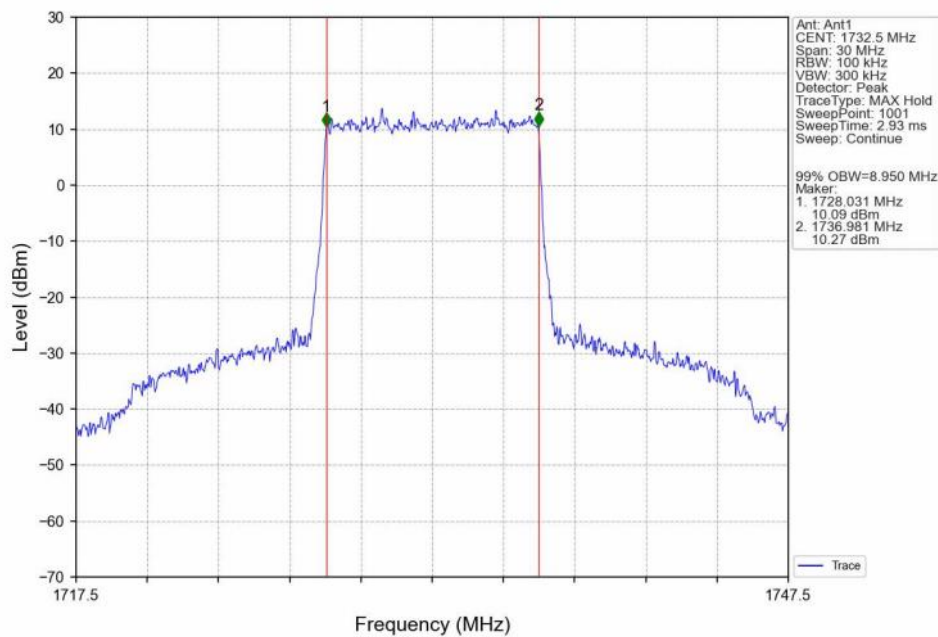
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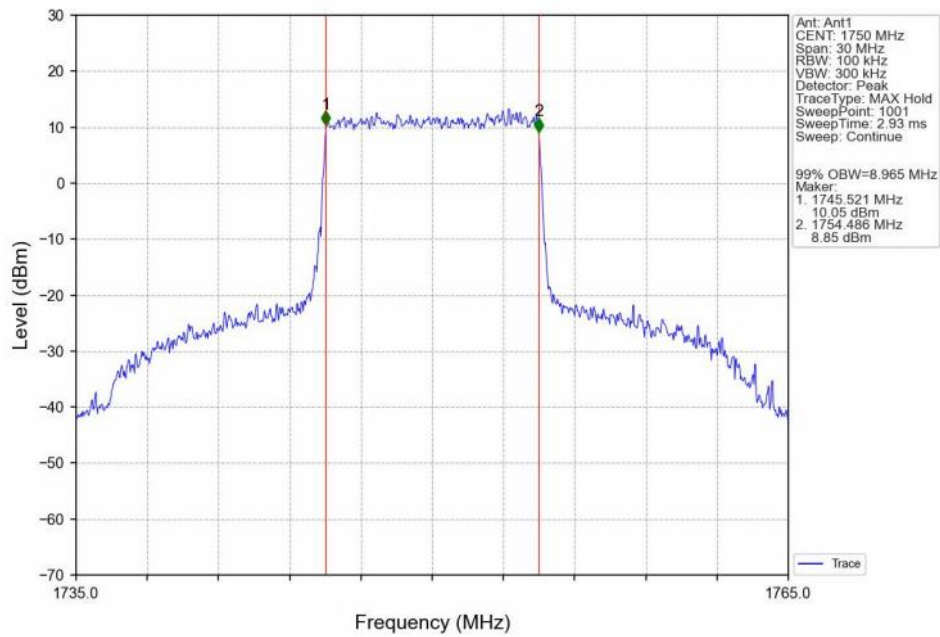
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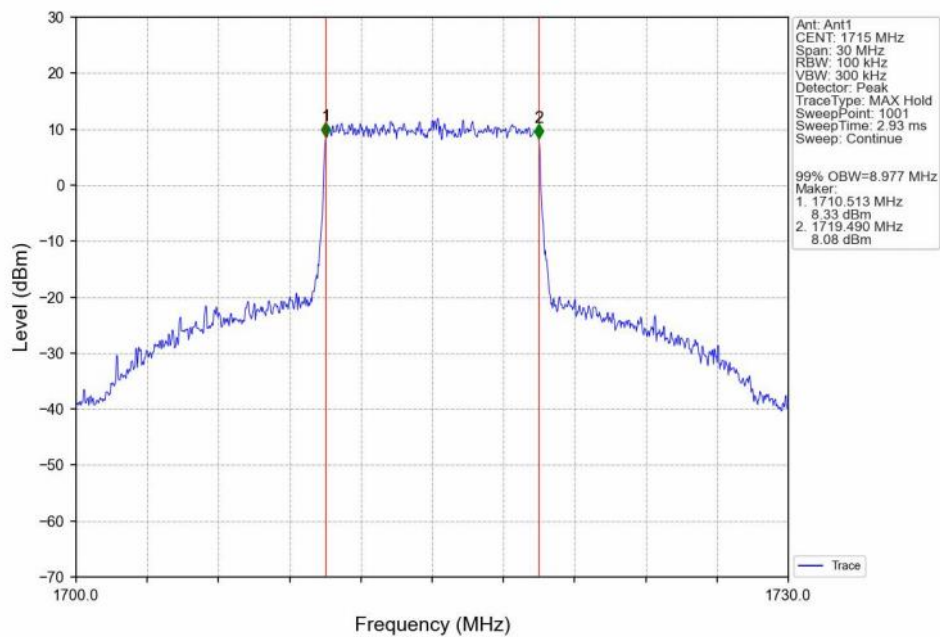
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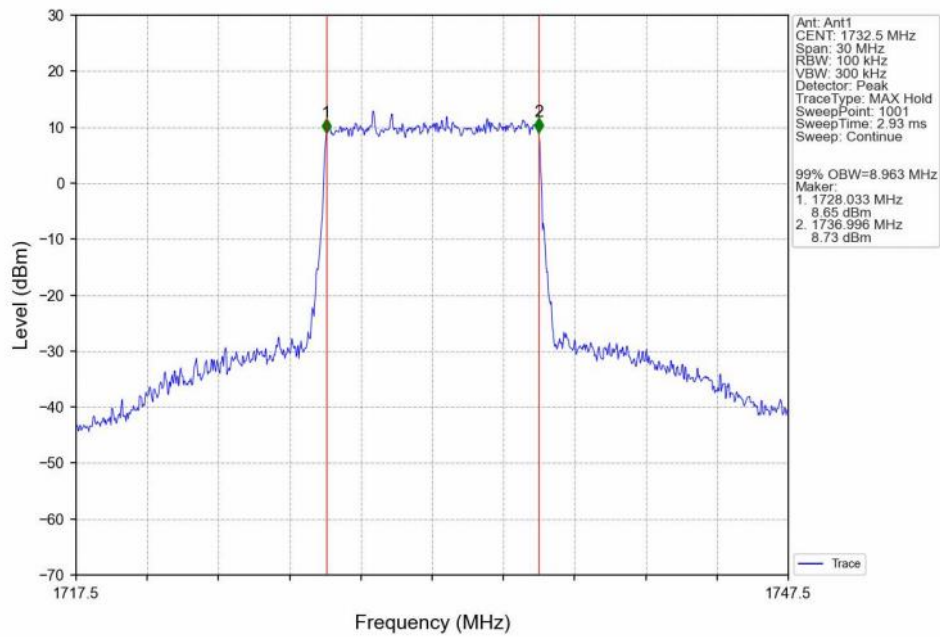
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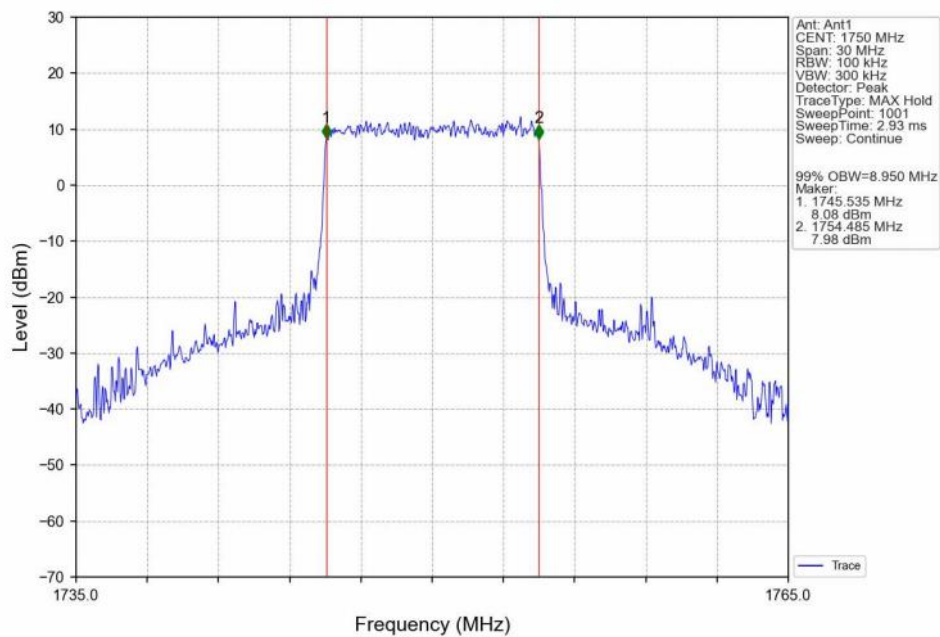
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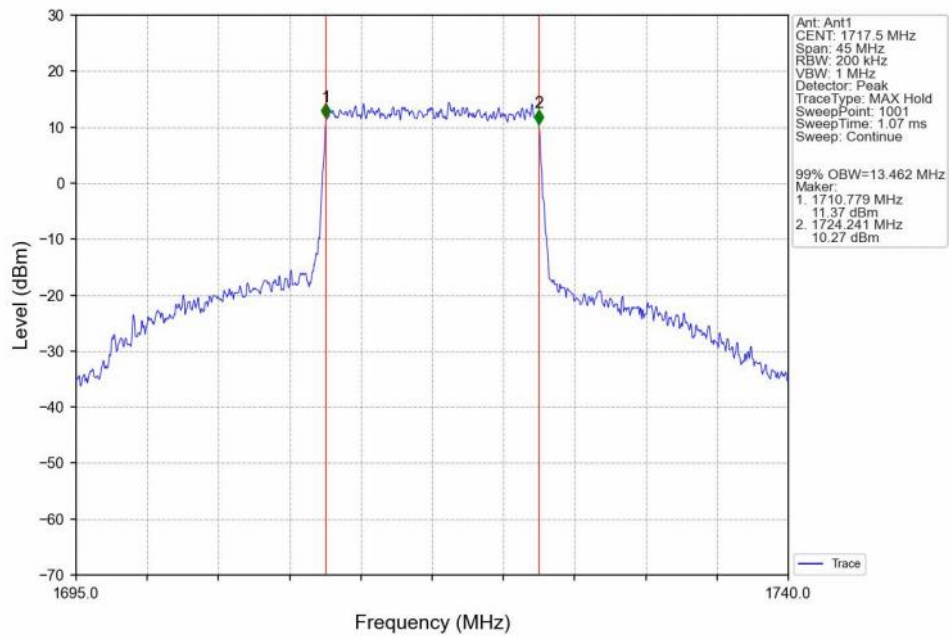
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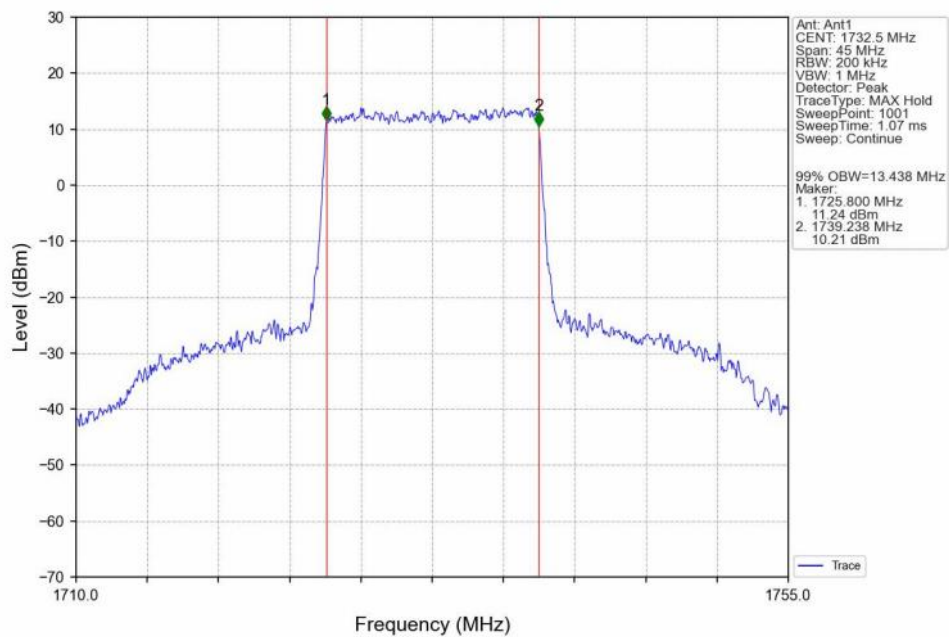
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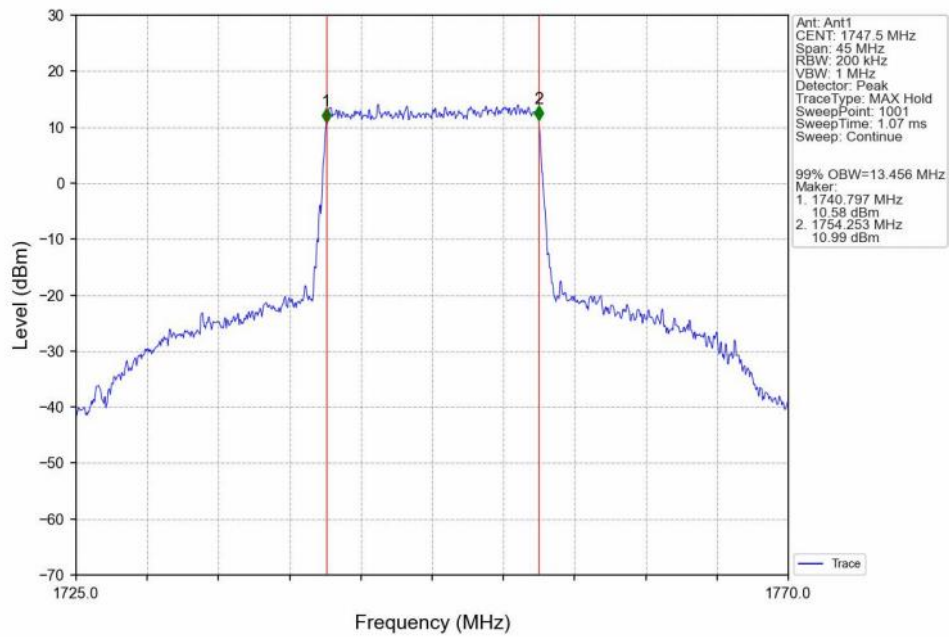
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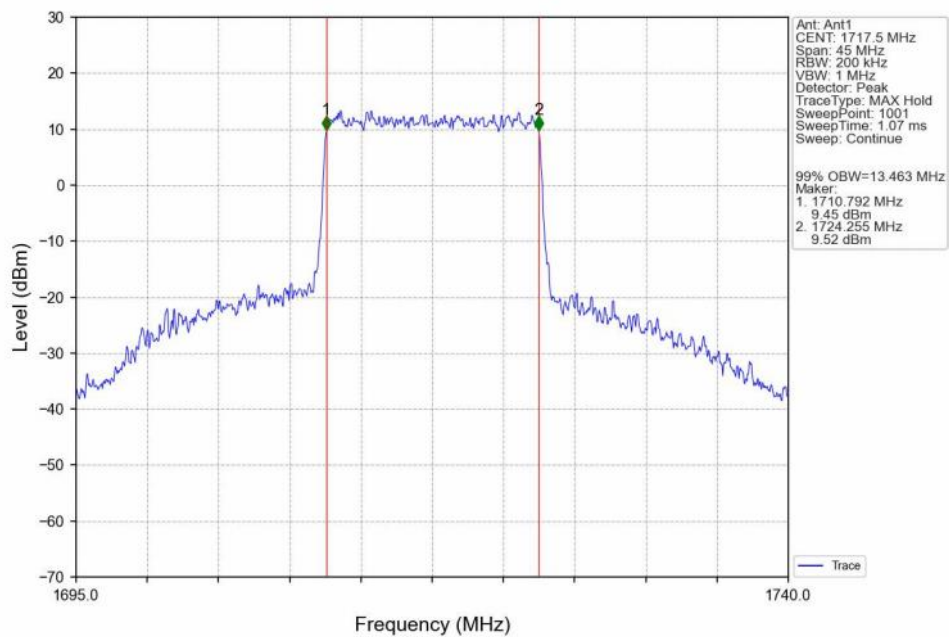
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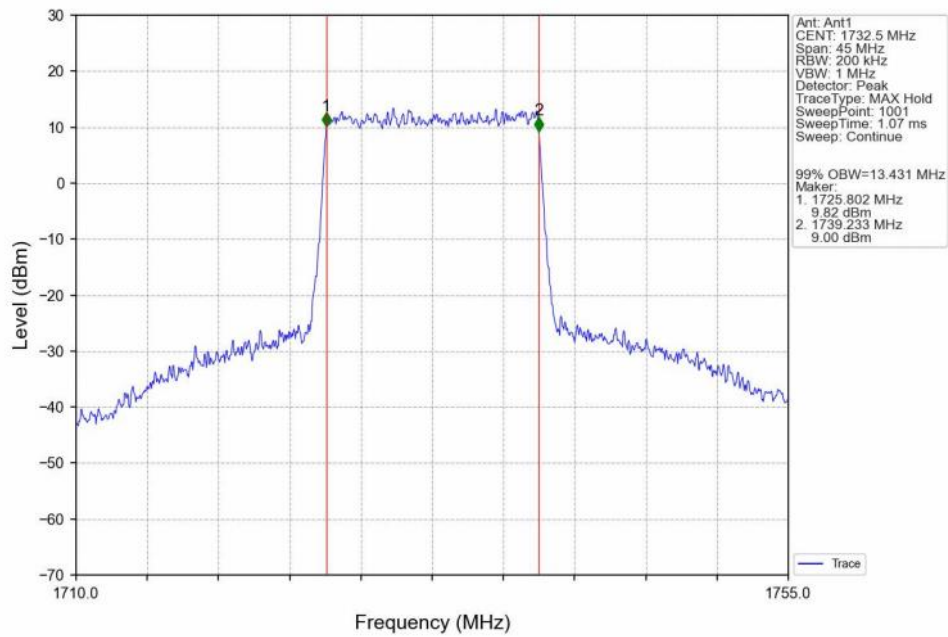
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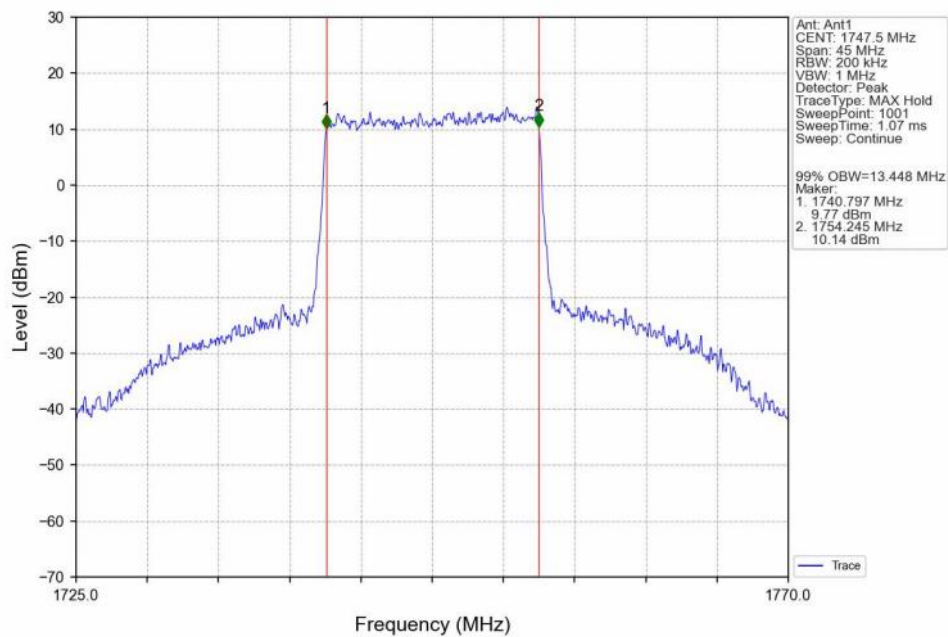
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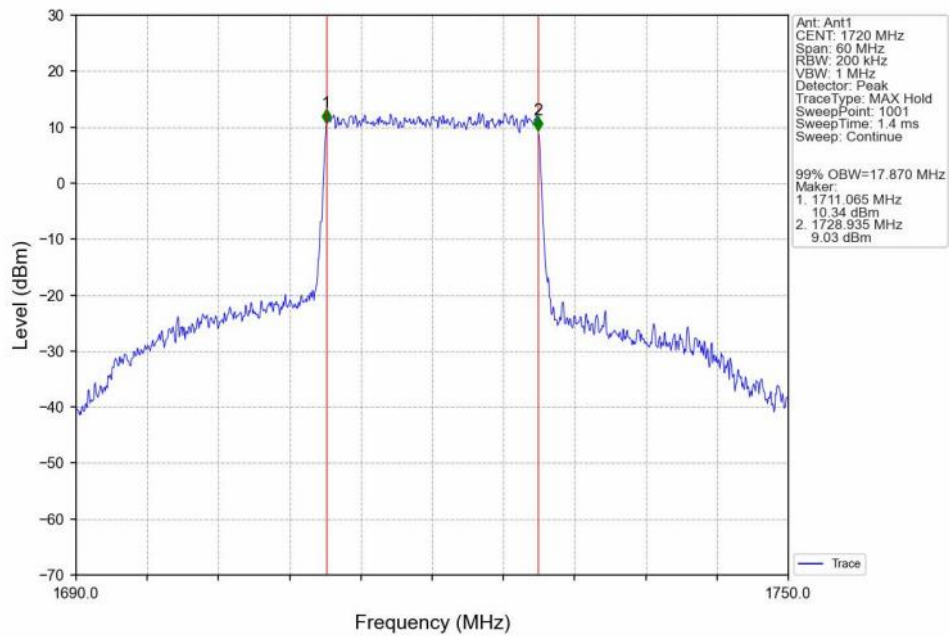
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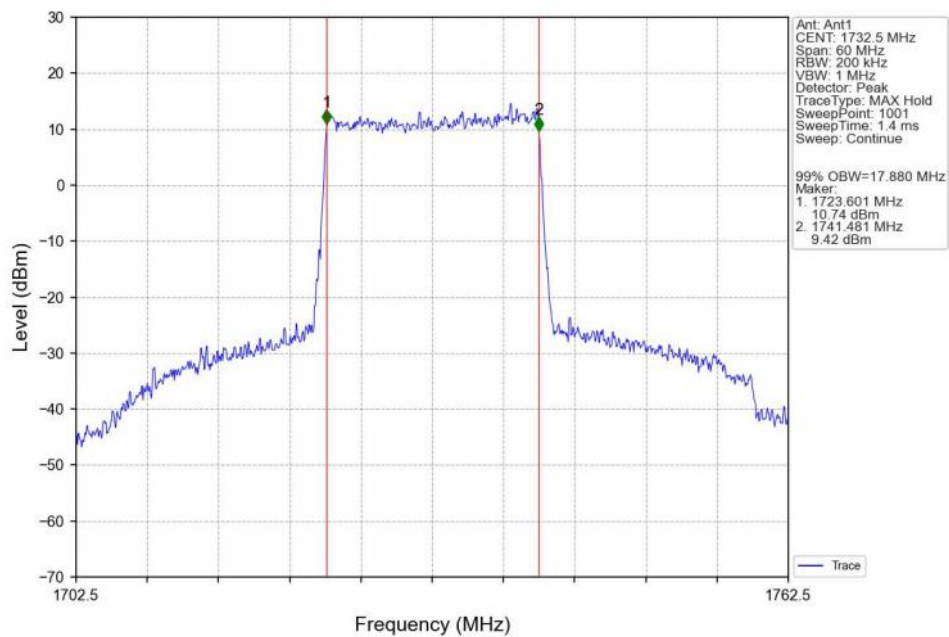
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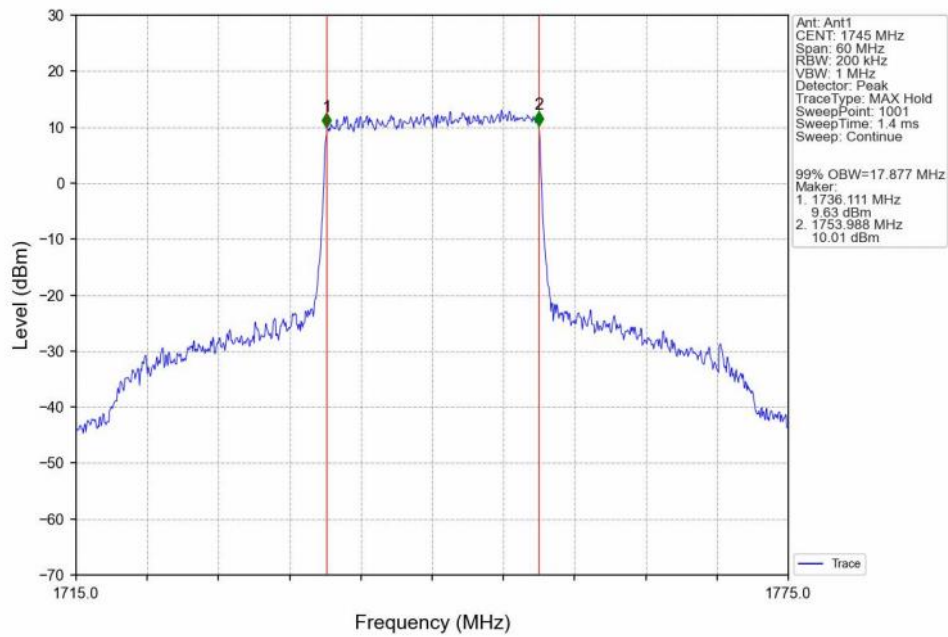
Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



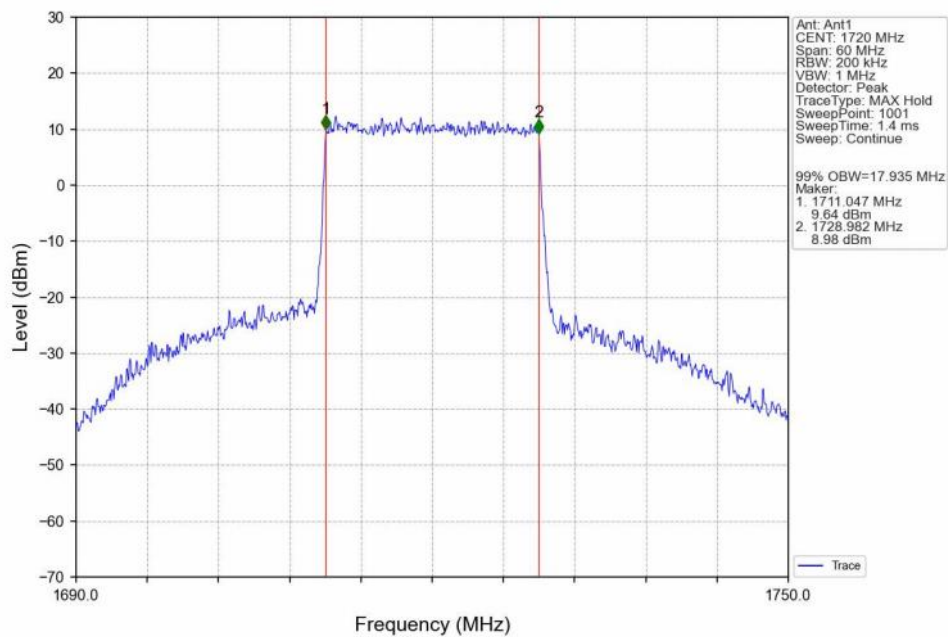
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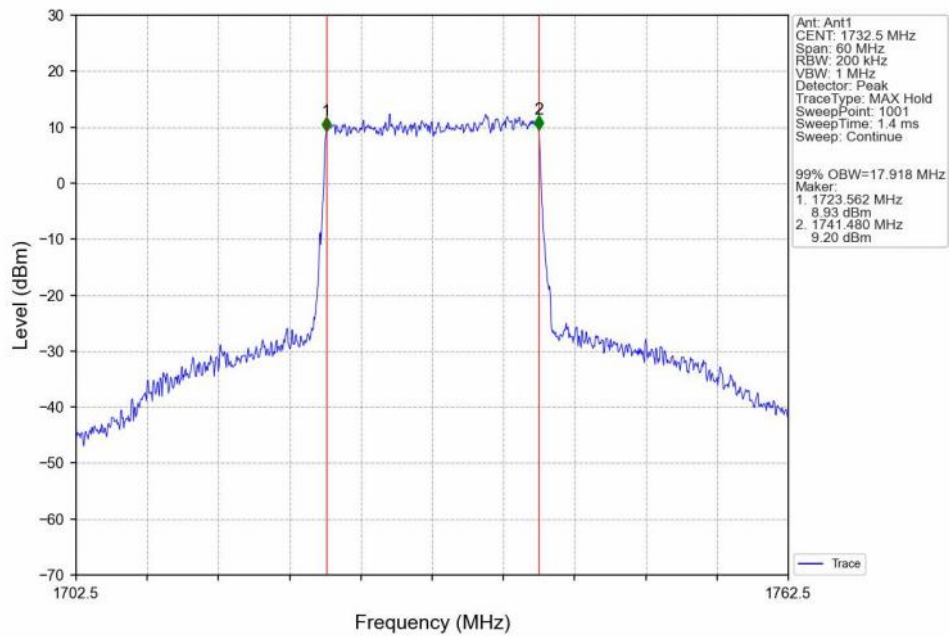
Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



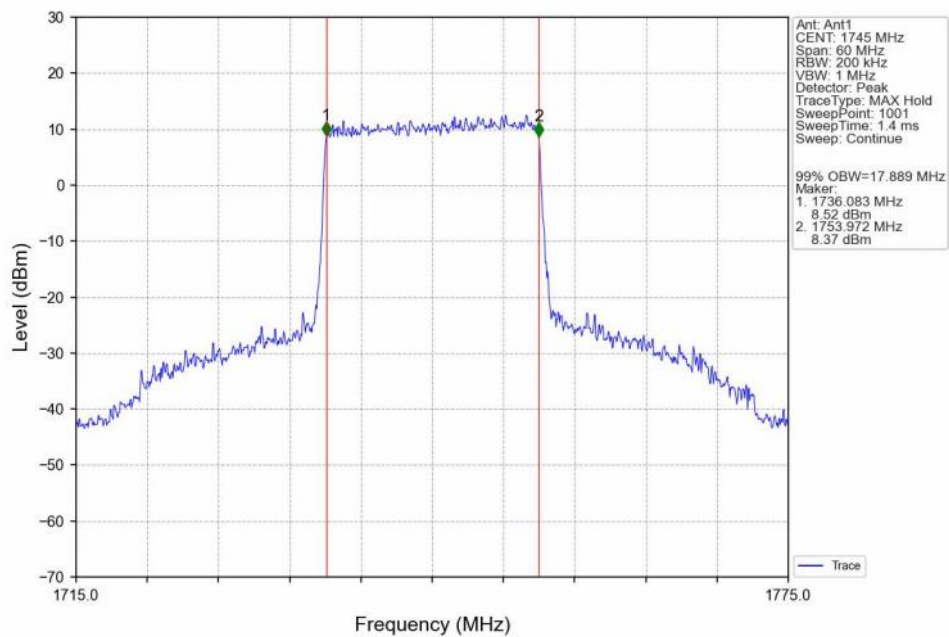
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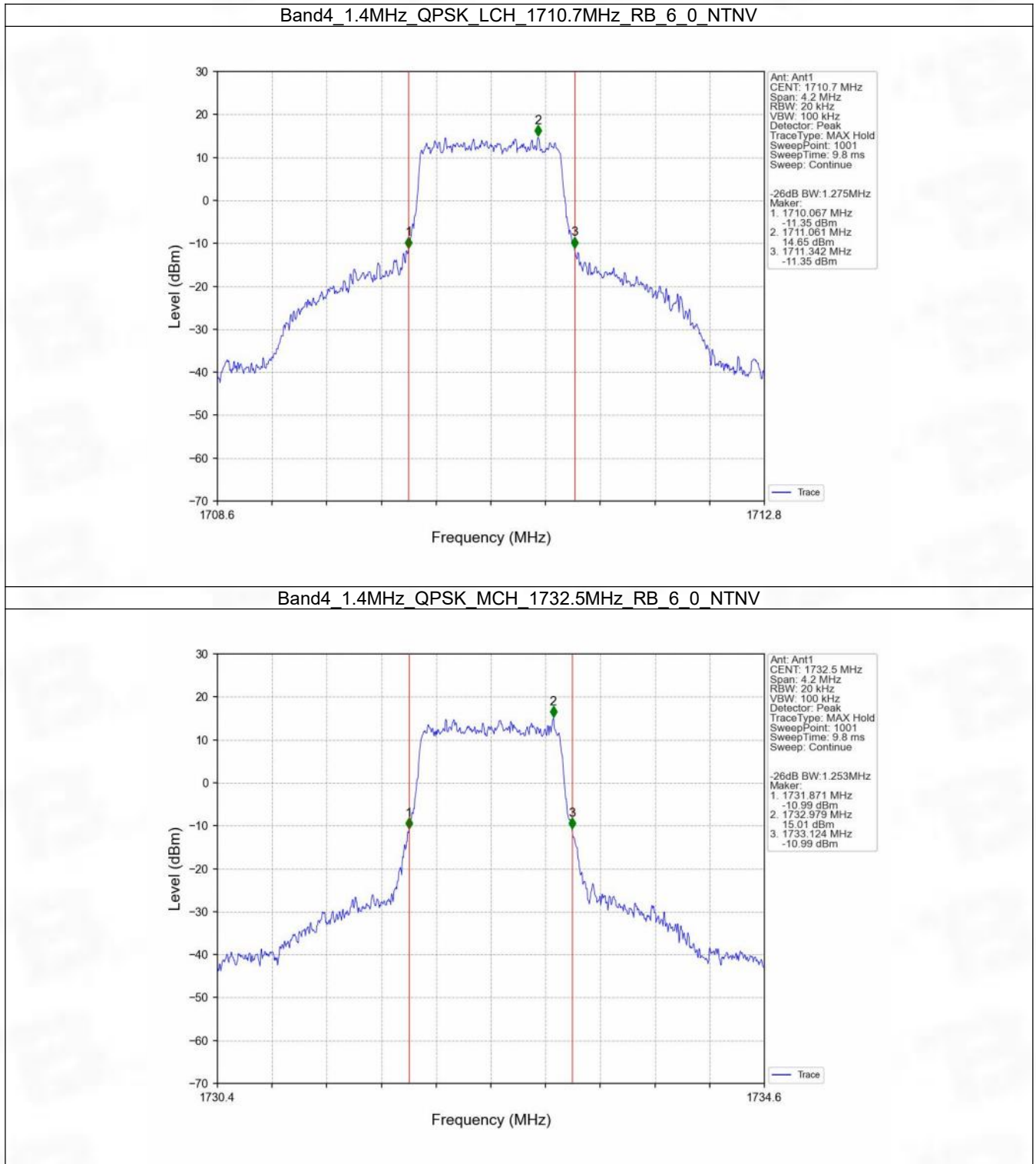
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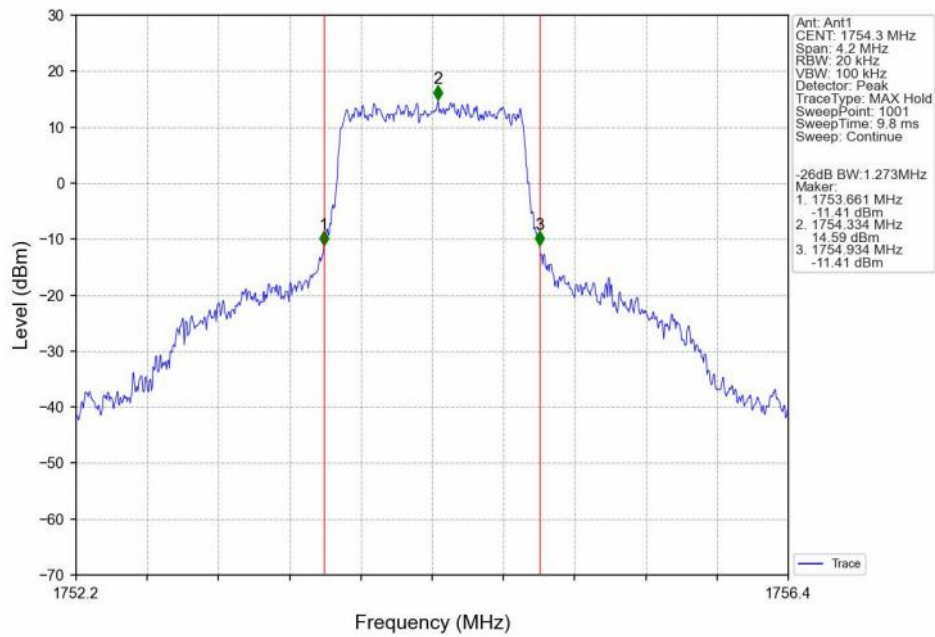
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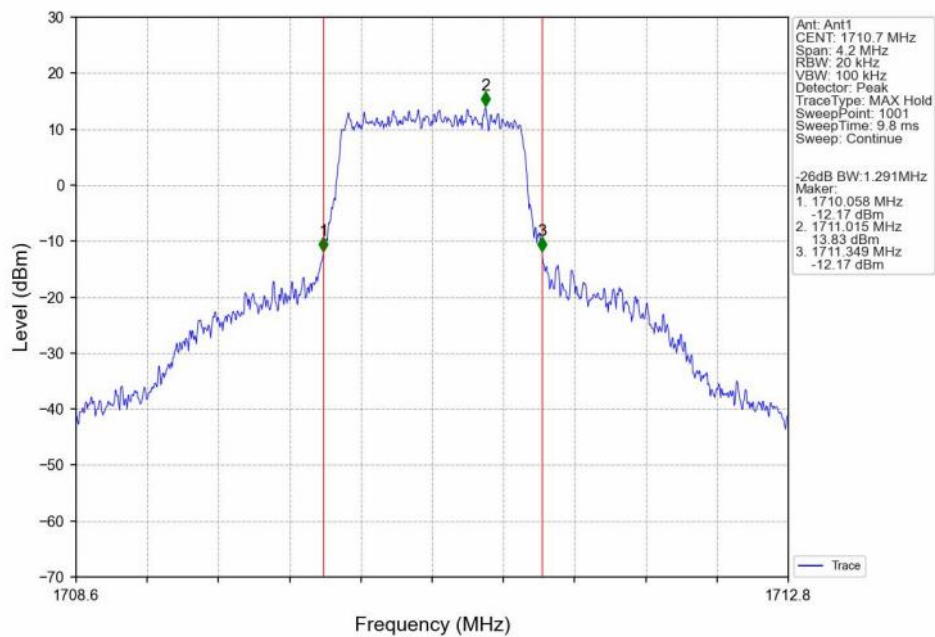
4.2.2 Band4_XDB



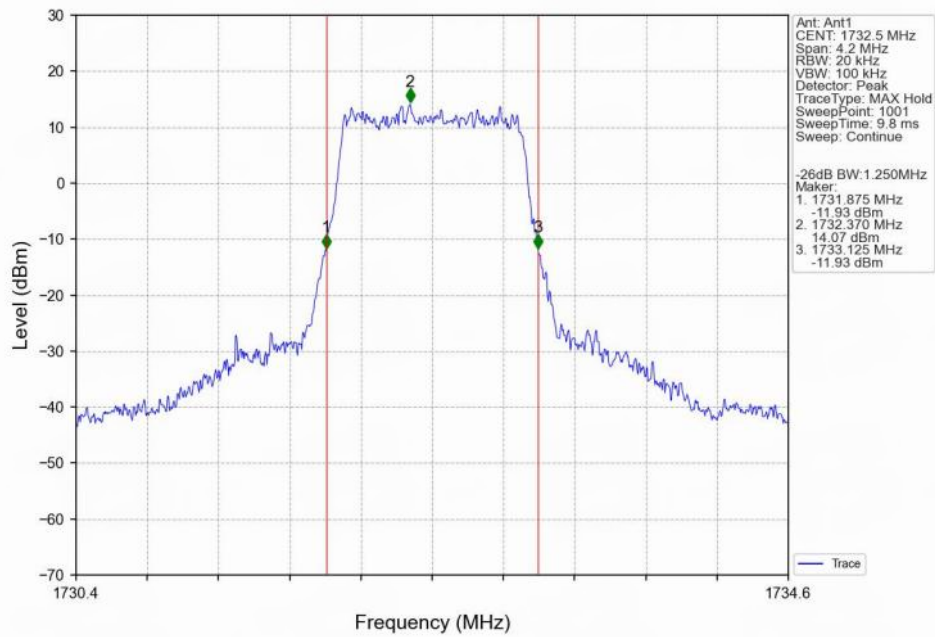
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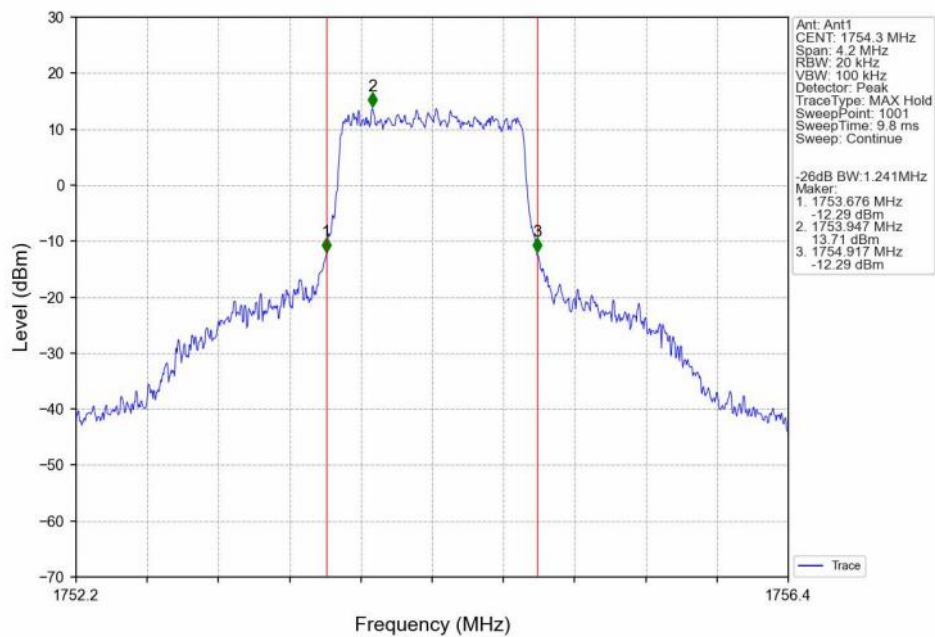
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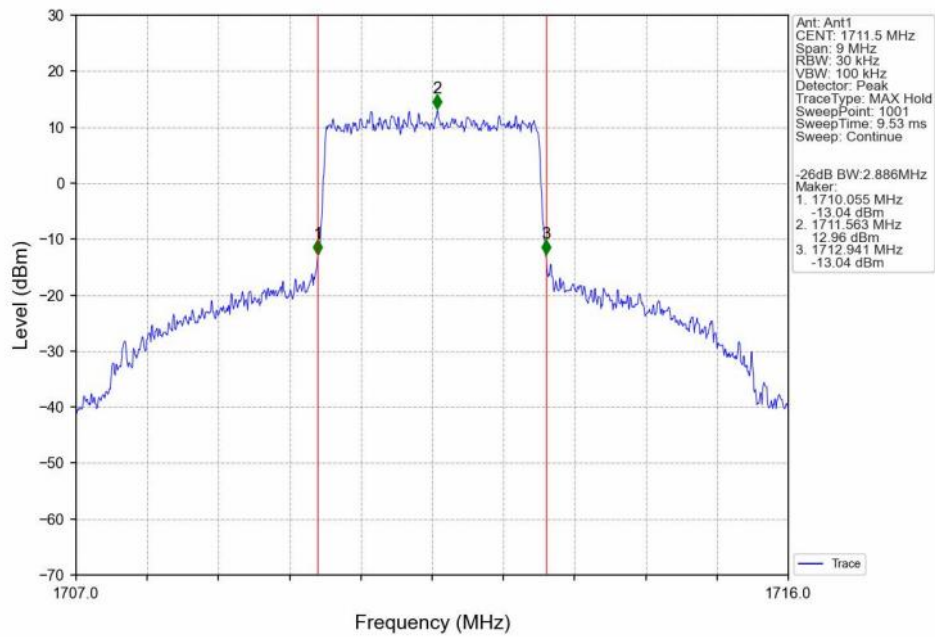
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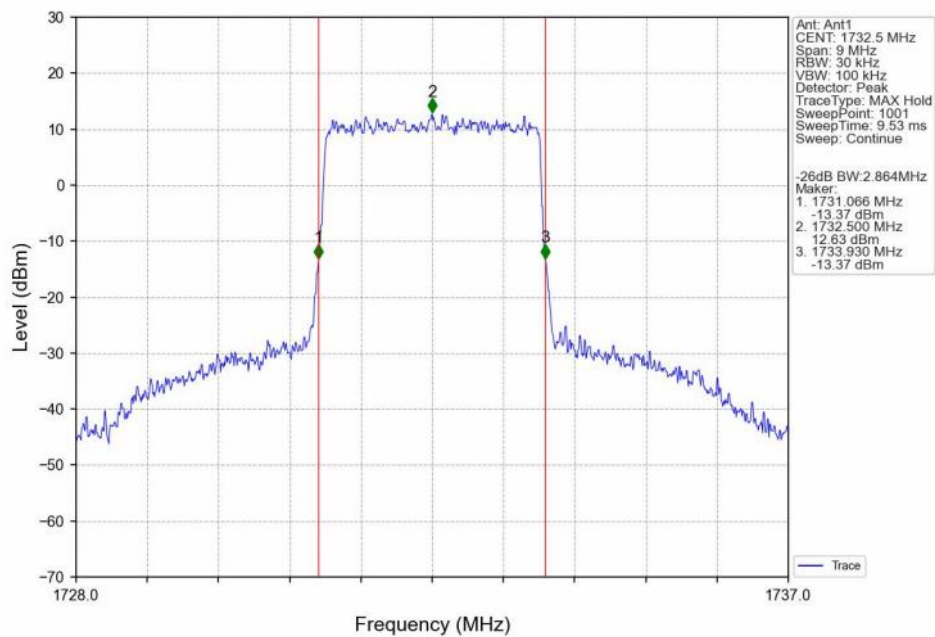
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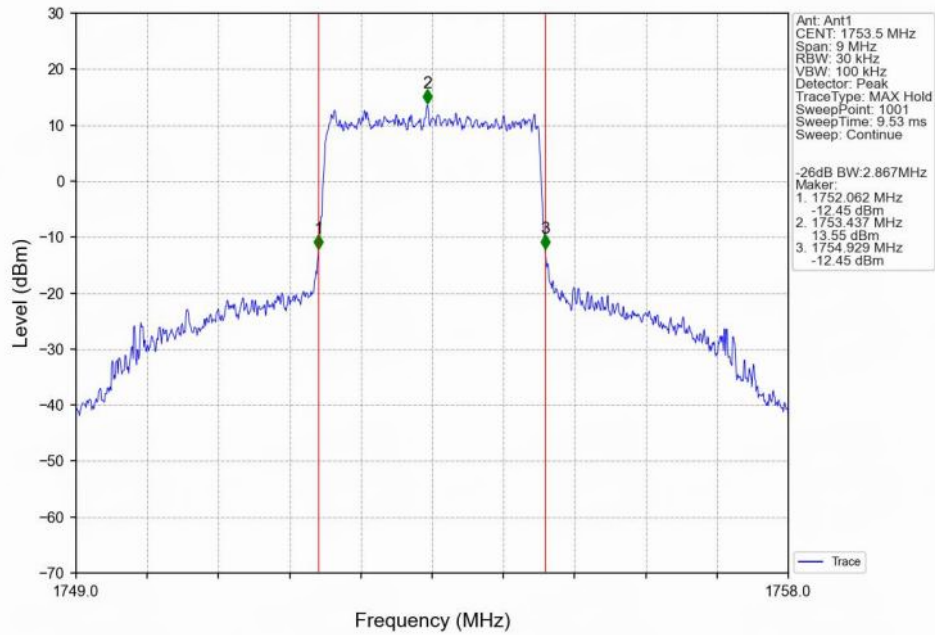
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



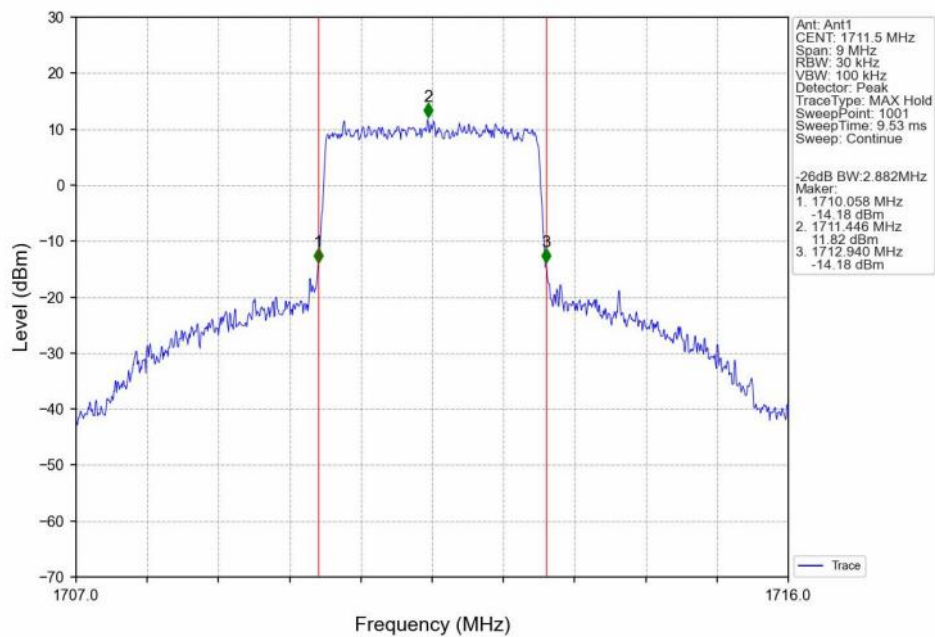
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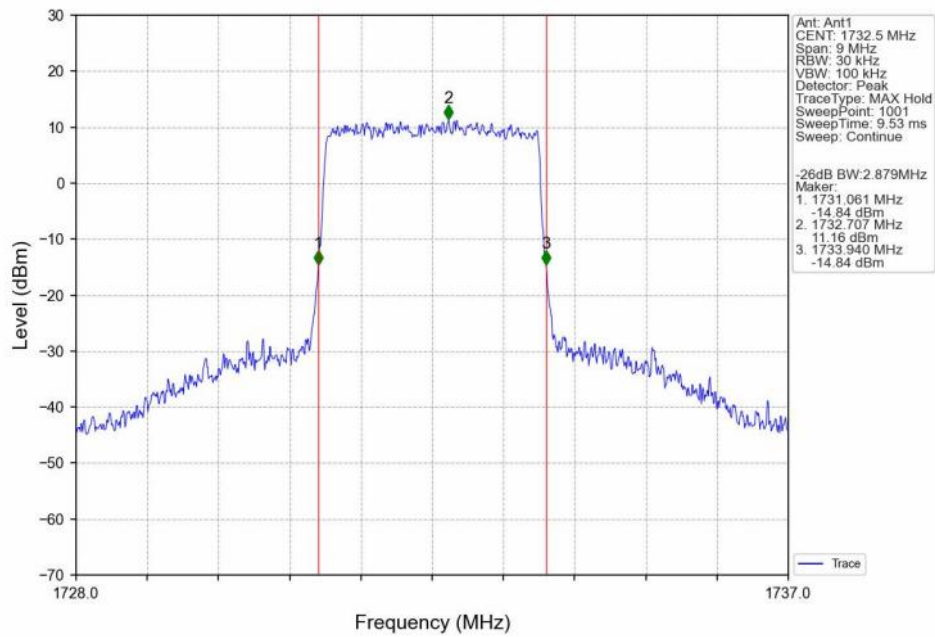
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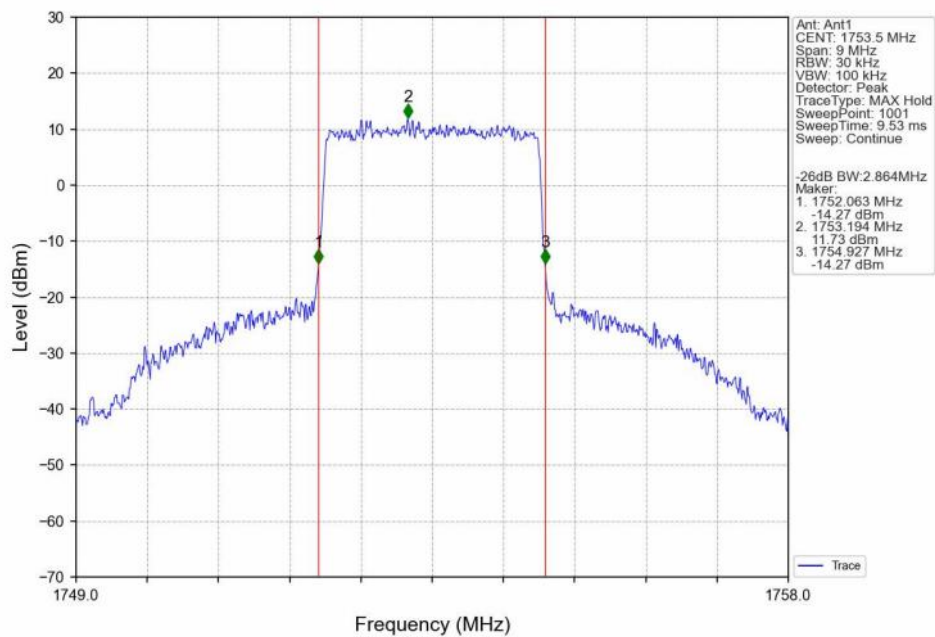
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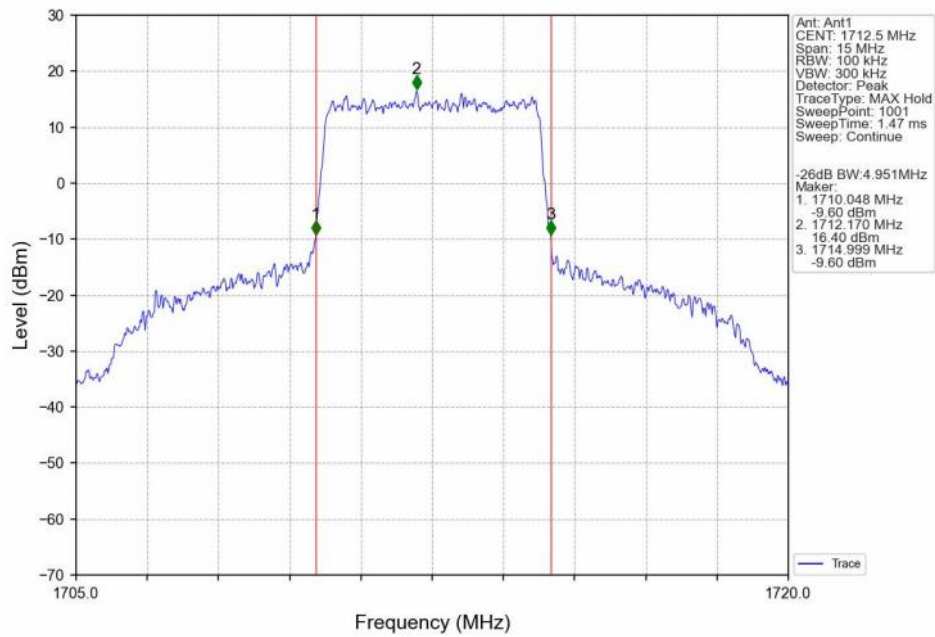
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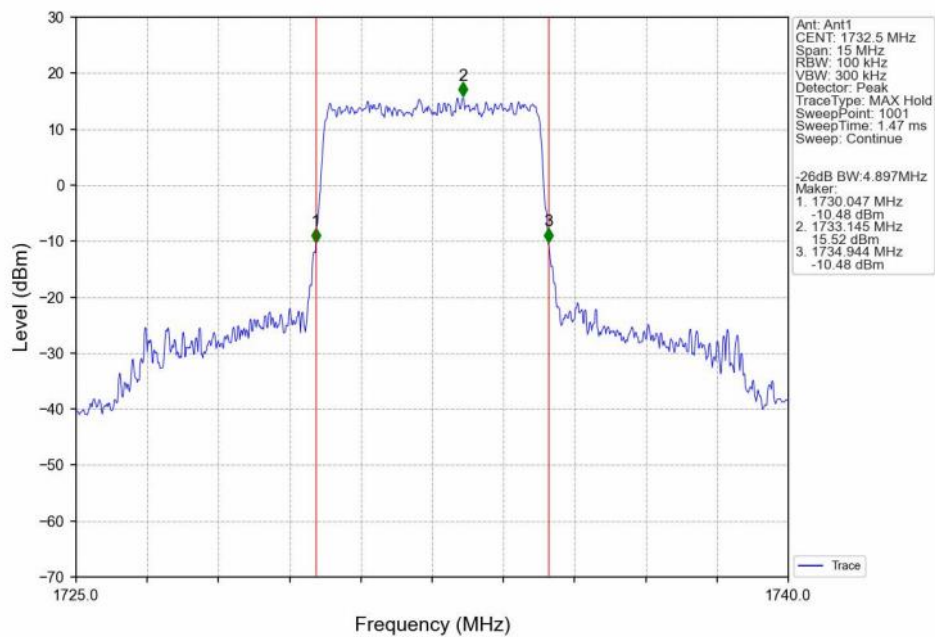
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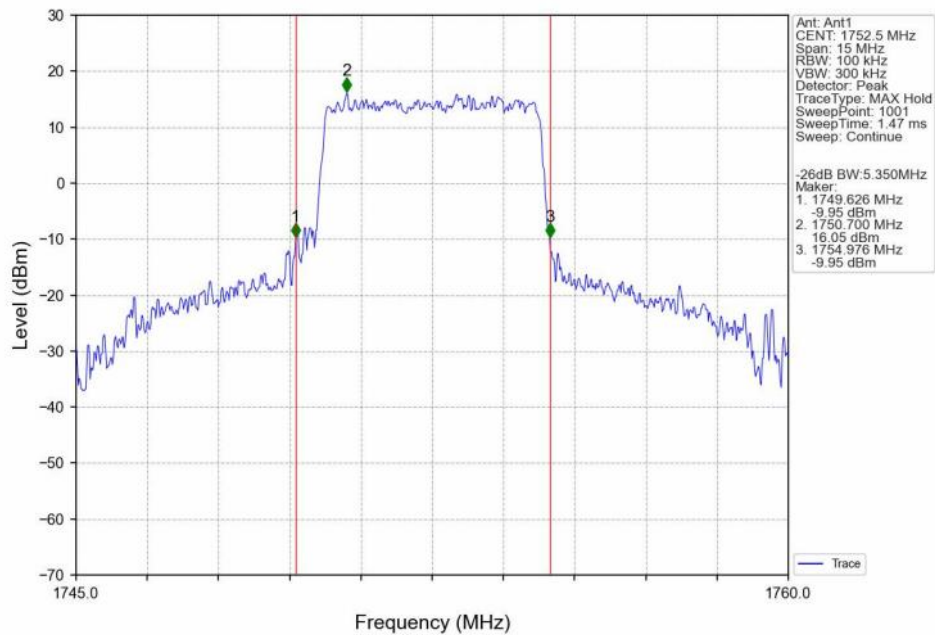
Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



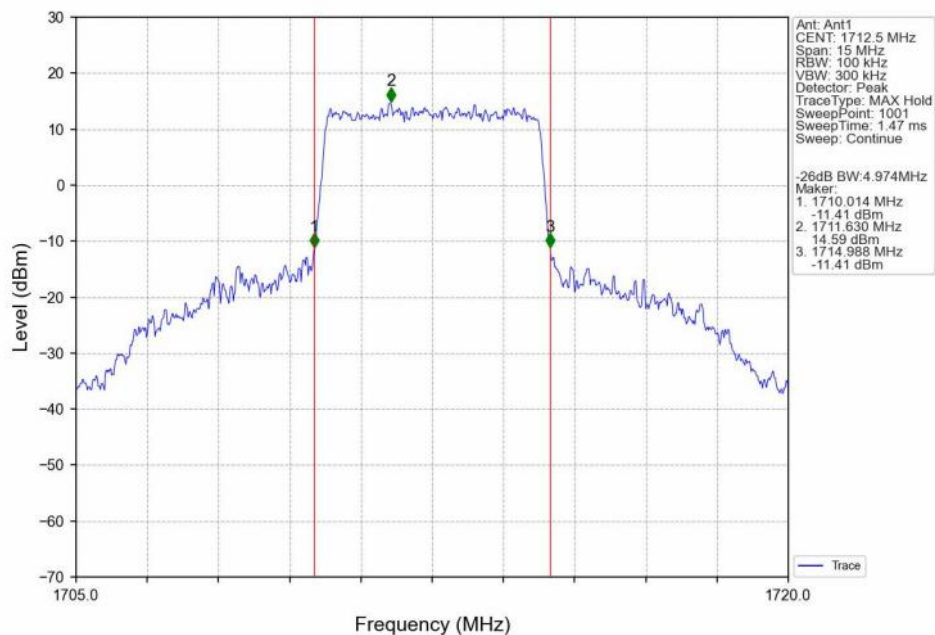
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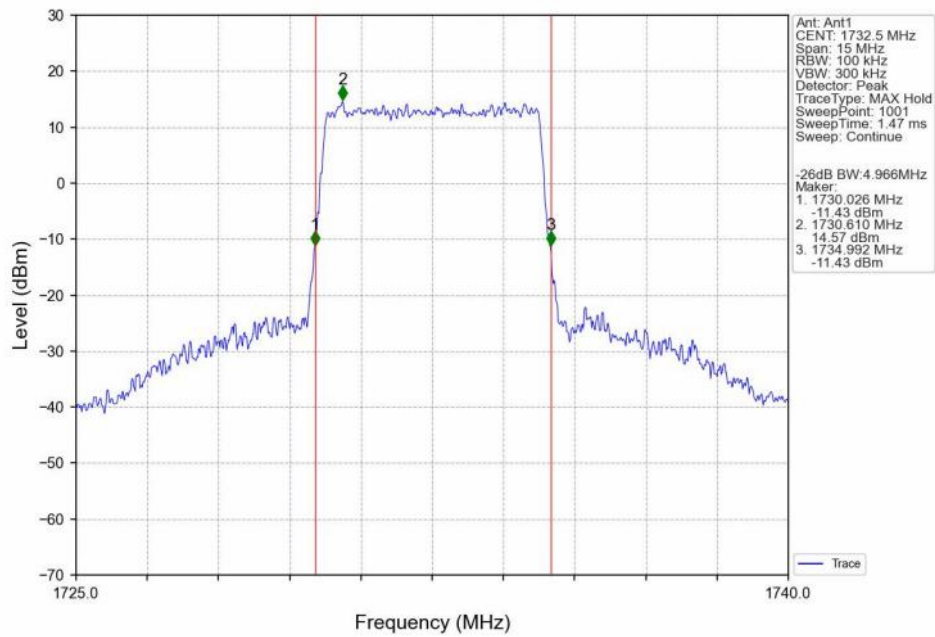
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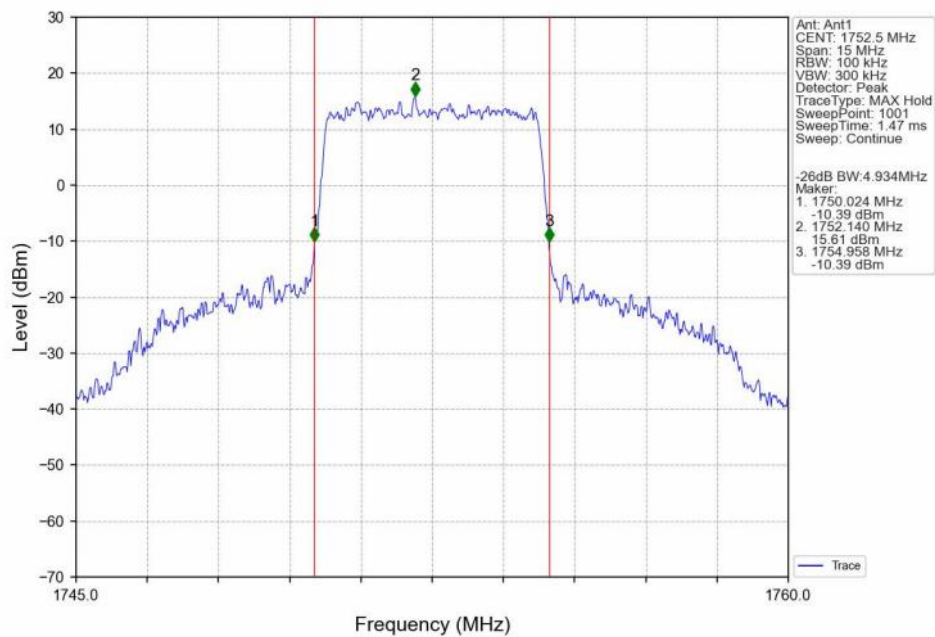
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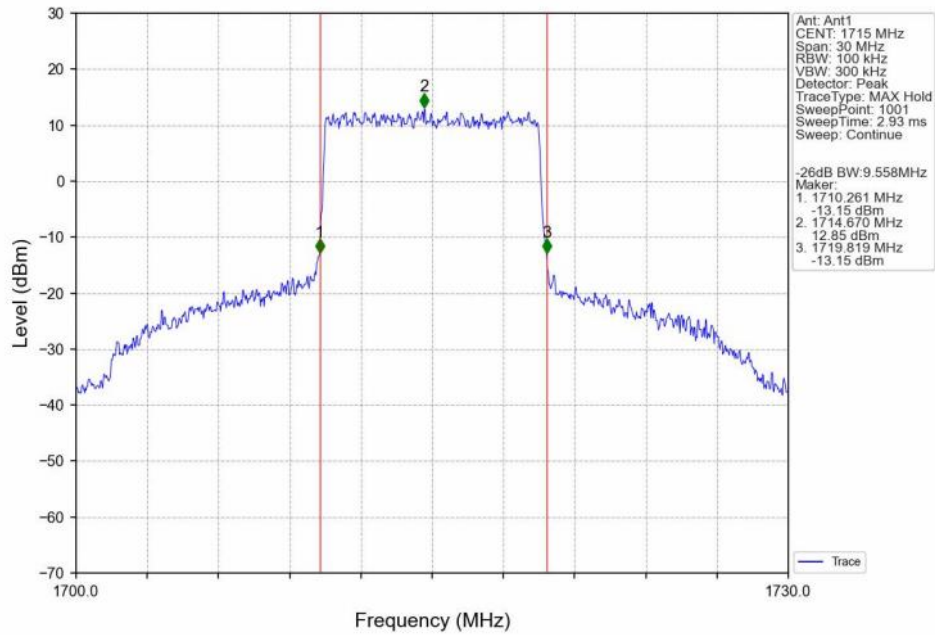
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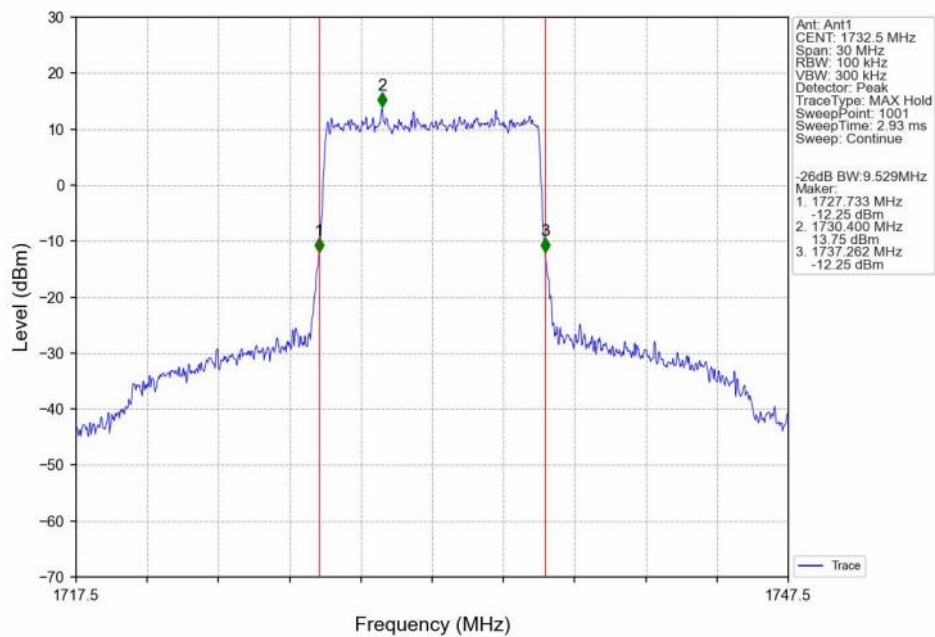
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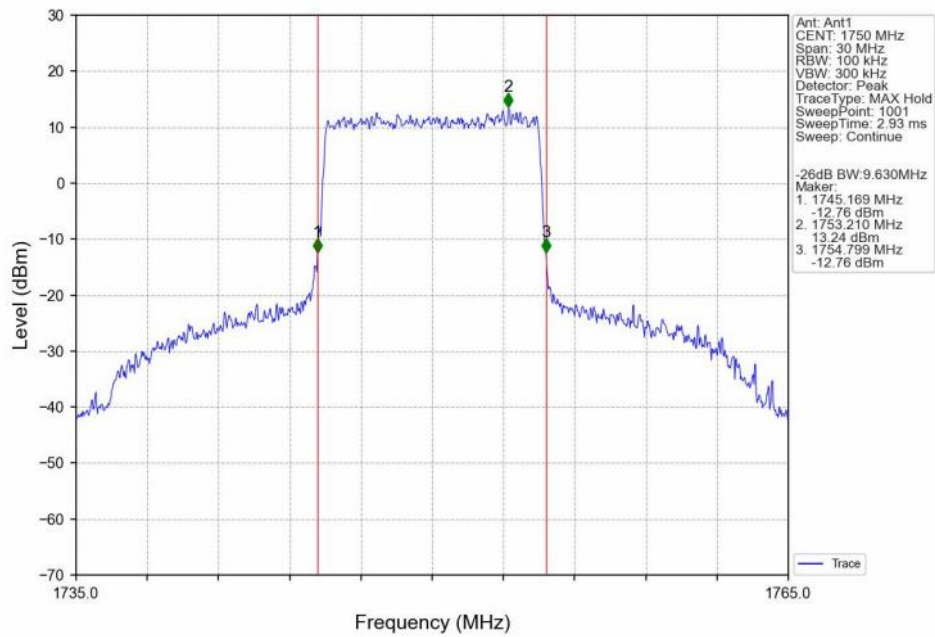
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



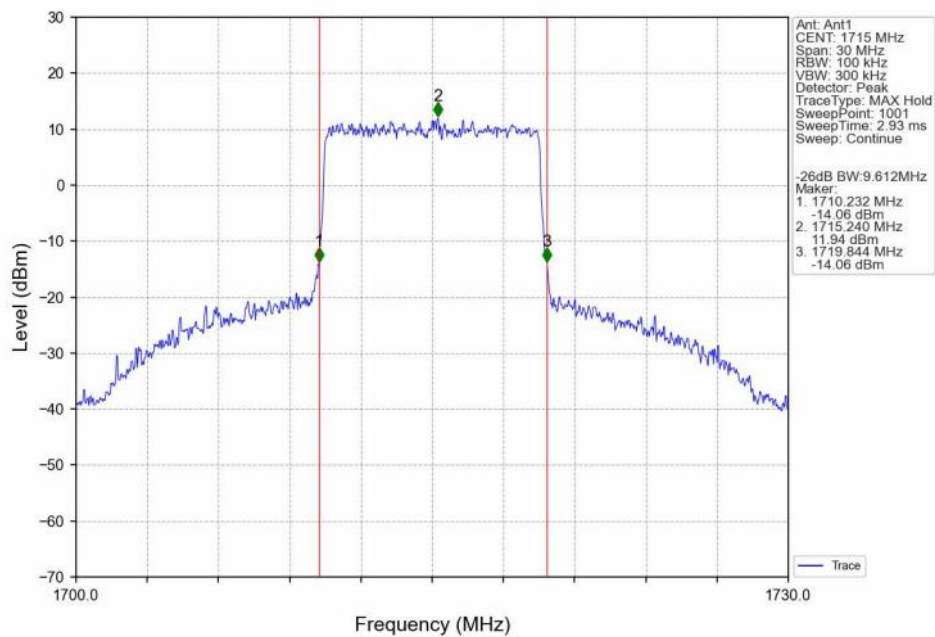
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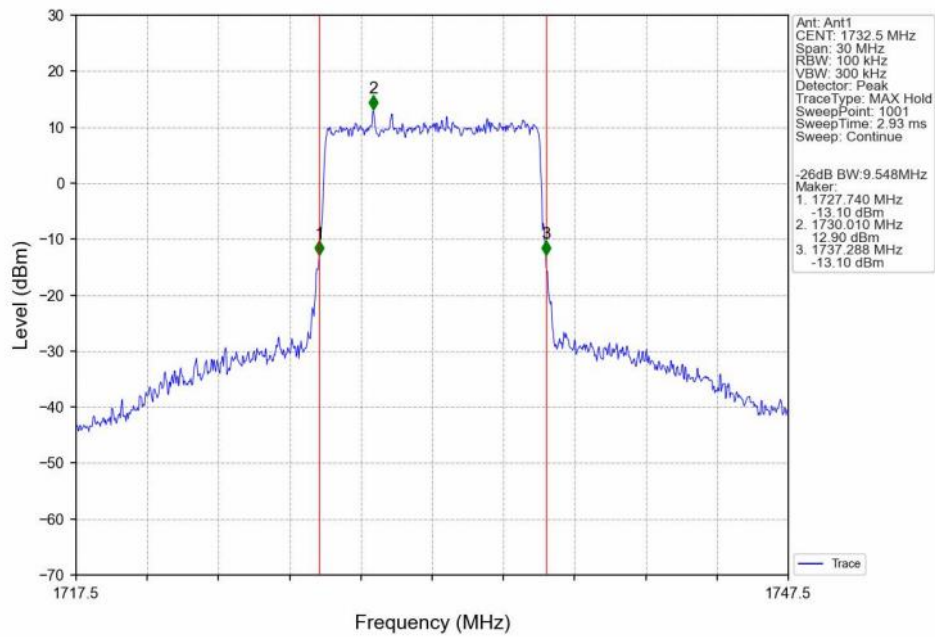
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



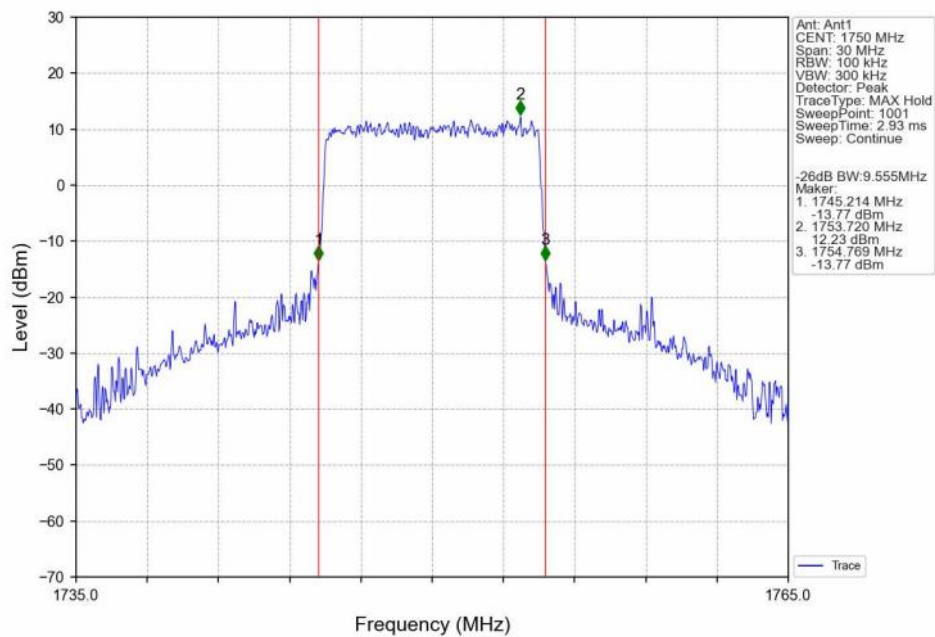
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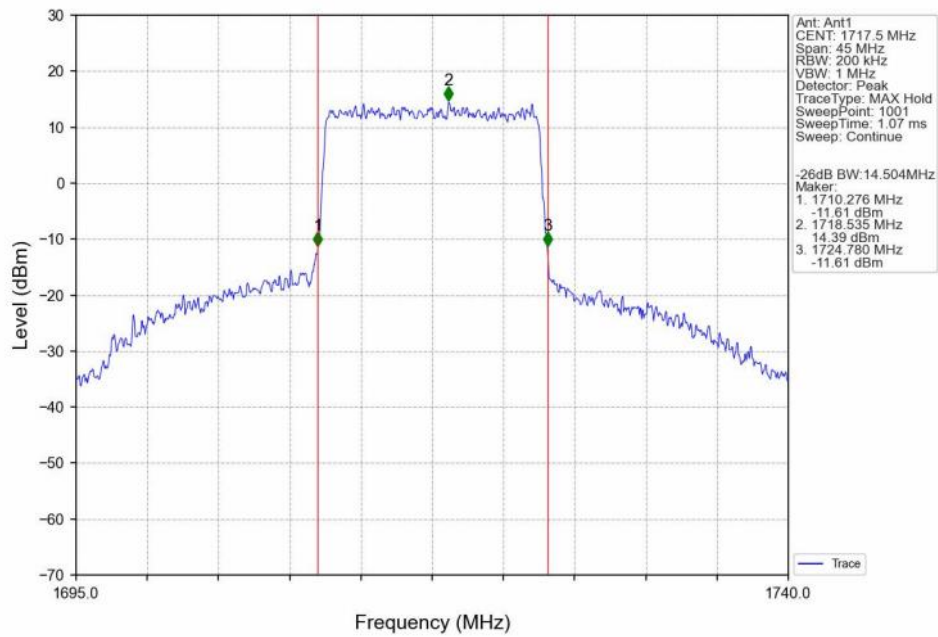
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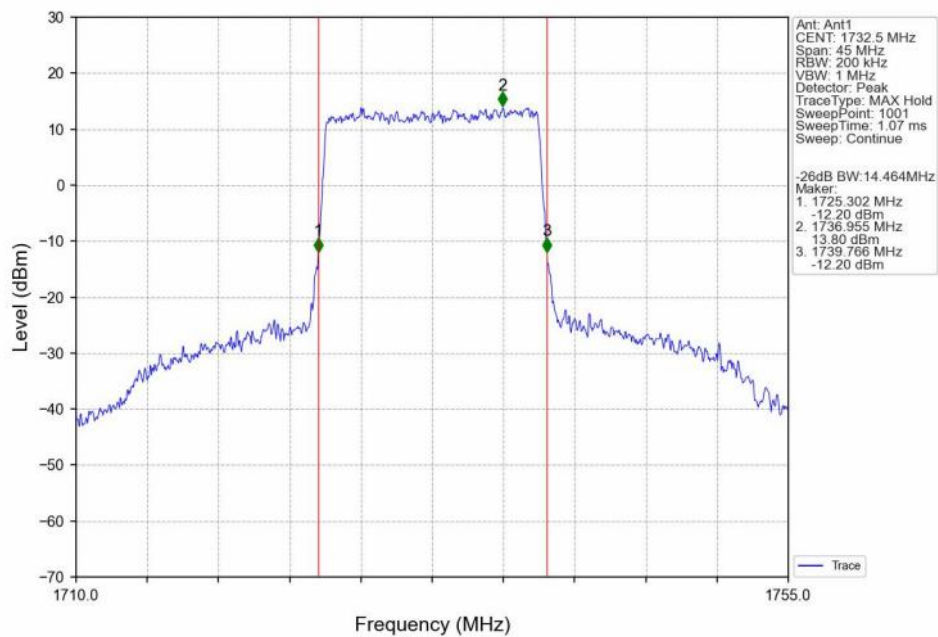
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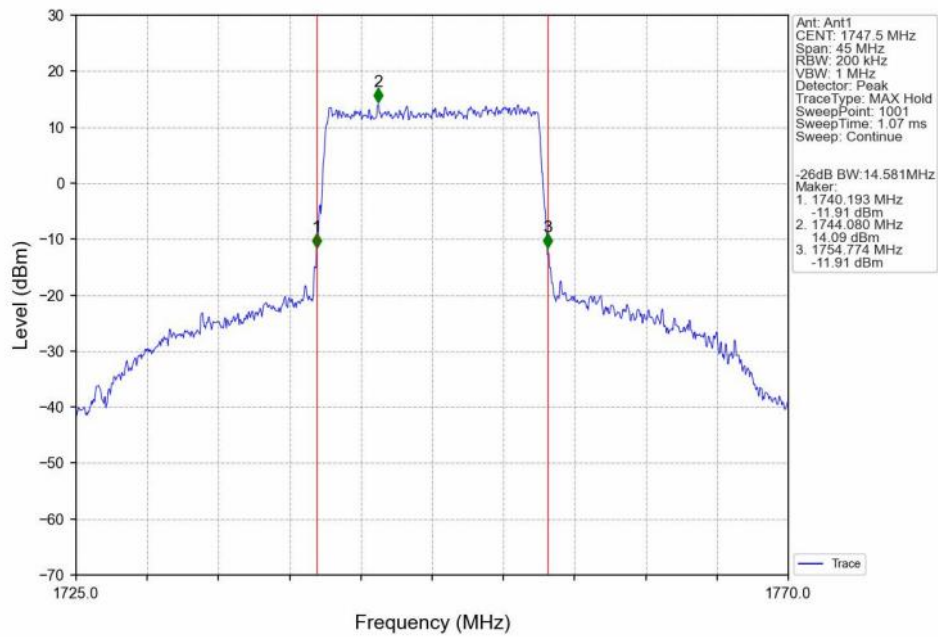
Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



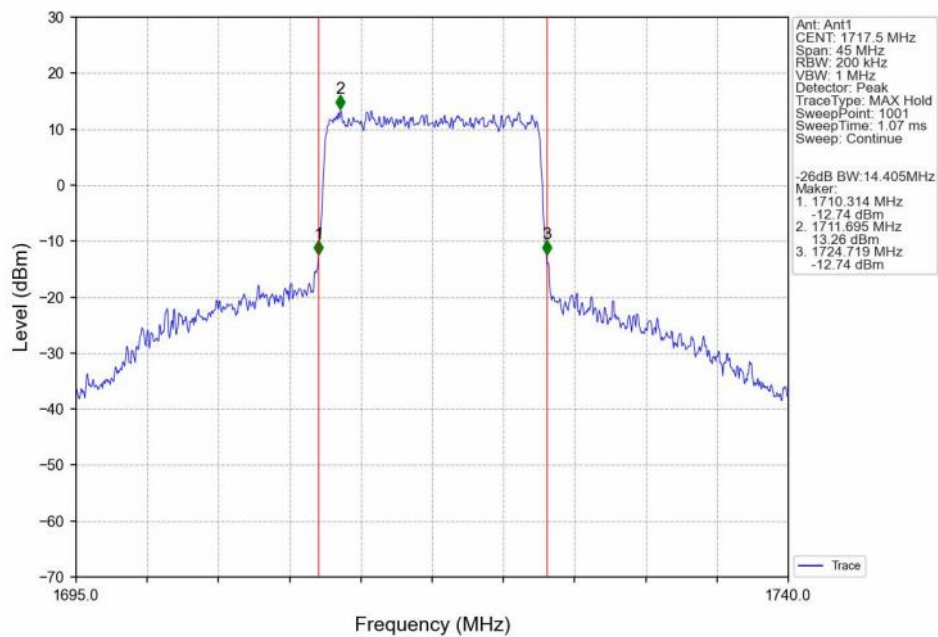
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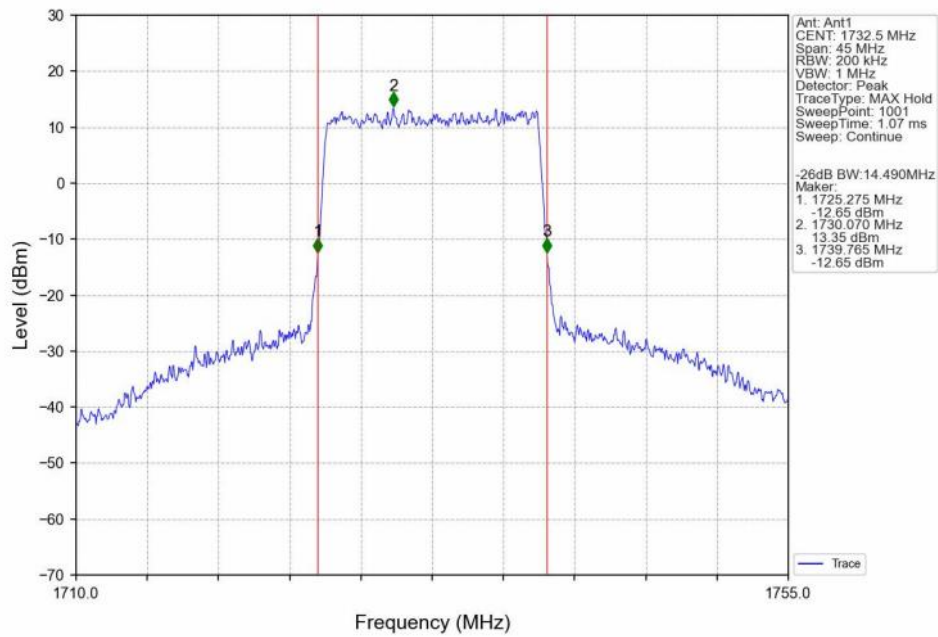
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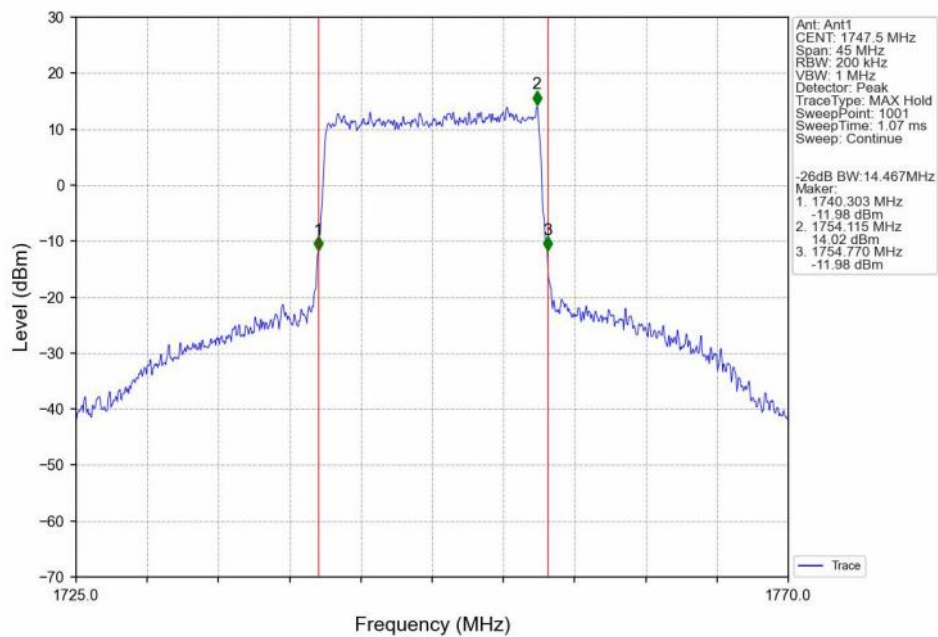
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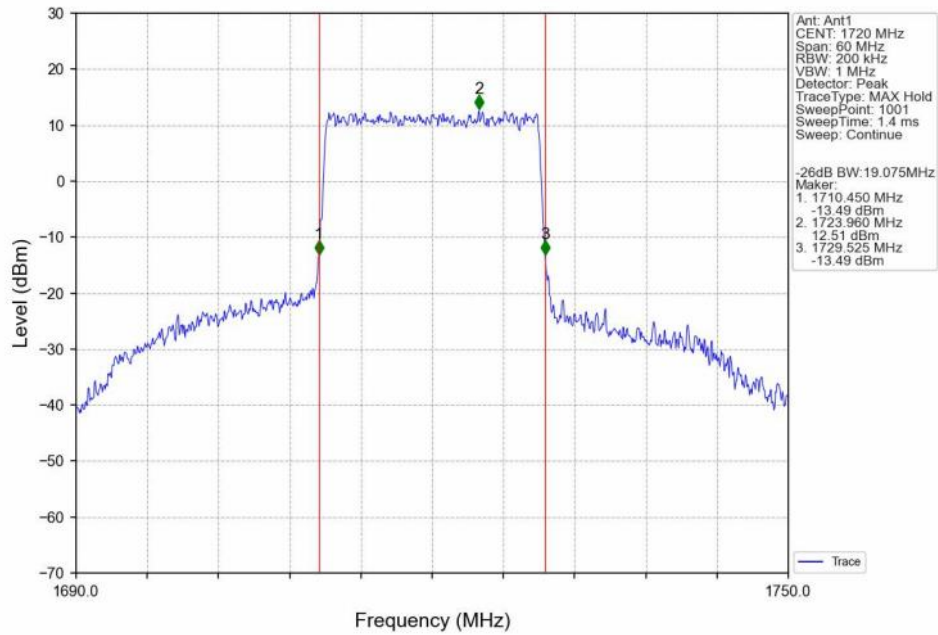
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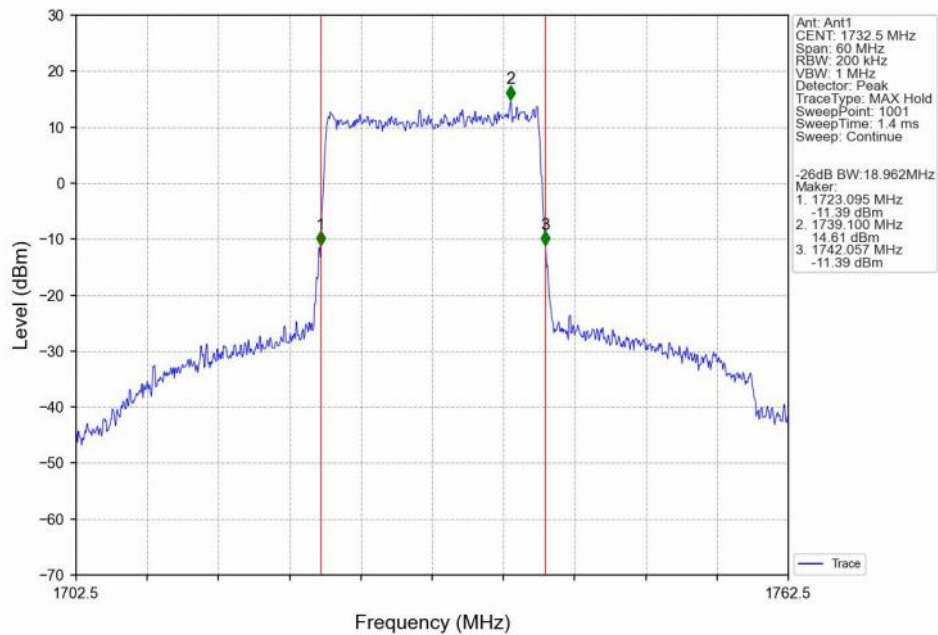
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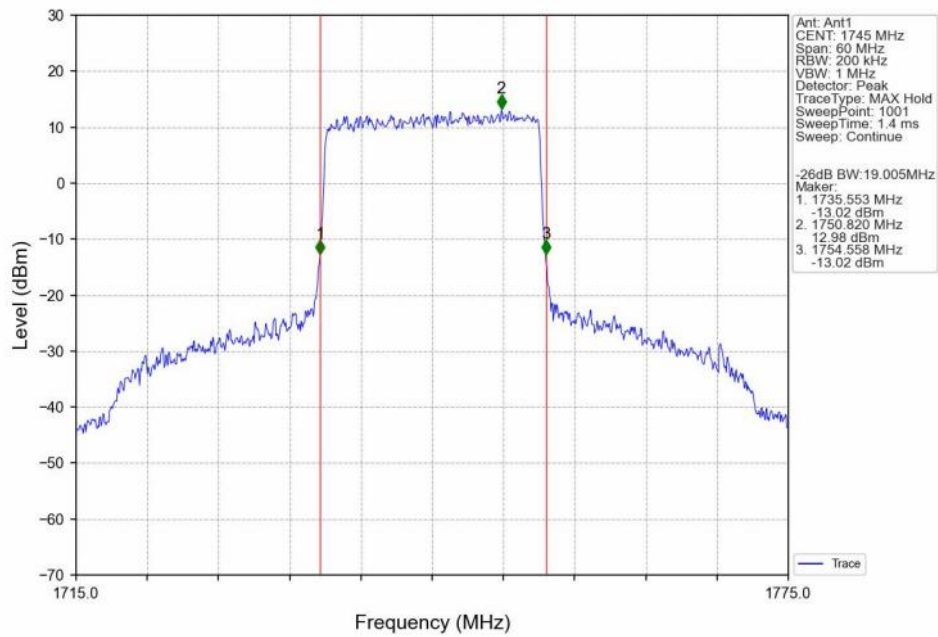
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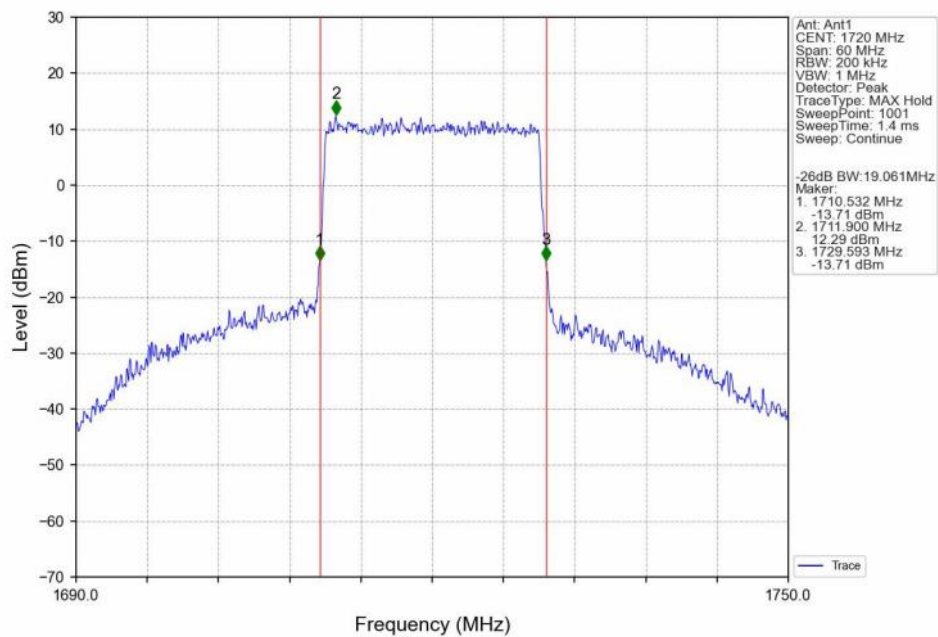
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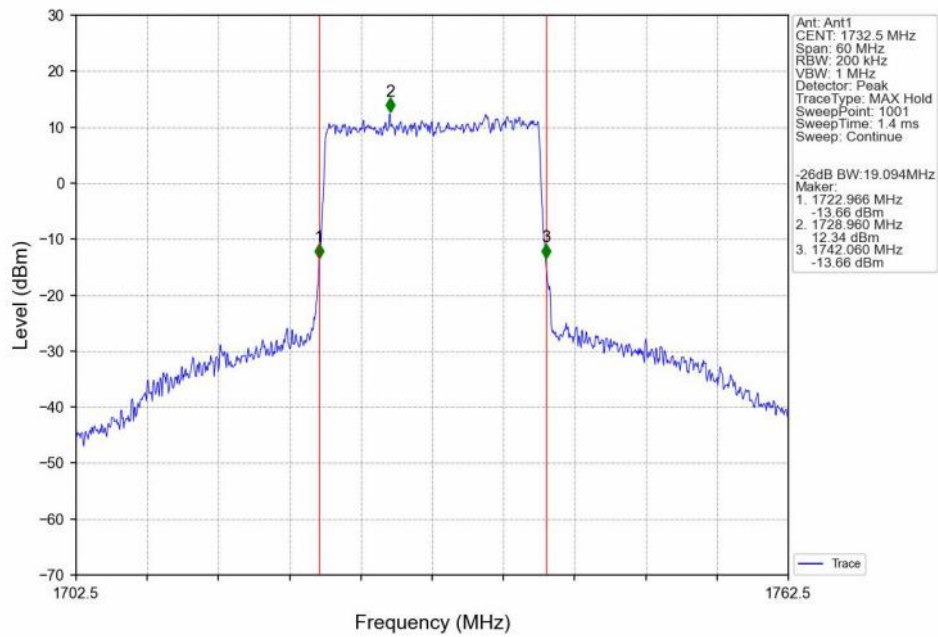
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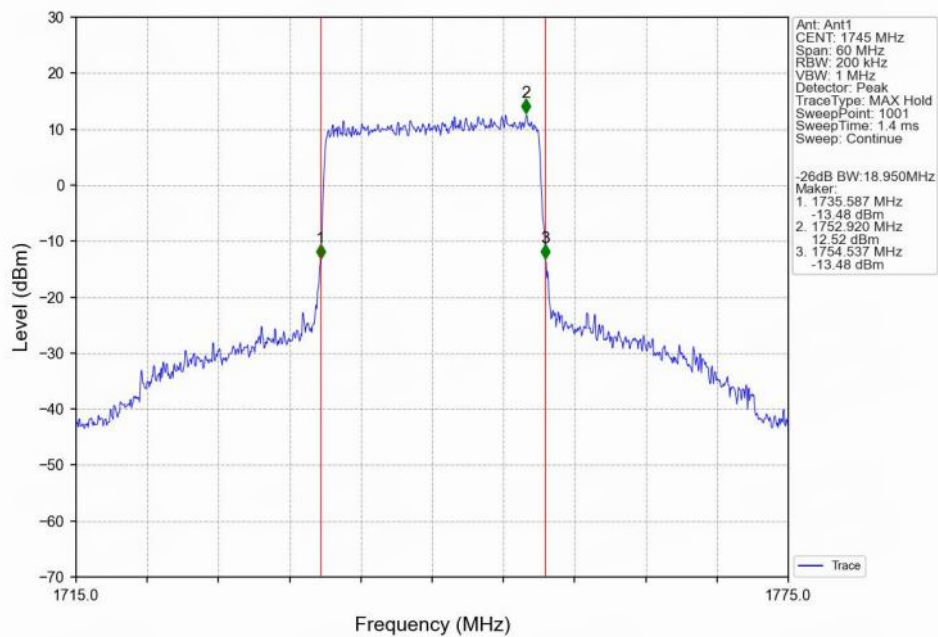
Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	3.68	≤ 13	Pass
	1732.5	6	0	5.33	≤ 13	Pass
	1754.3	6	0	4.14	≤ 13	Pass
16QAM	1710.7	6	0	4.60	≤ 13	Pass
	1732.5	6	0	6.07	≤ 13	Pass
	1754.3	6	0	5.04	≤ 13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	3.87	≤ 13	Pass
	1732.5	15	0	5.31	≤ 13	Pass
	1753.5	15	0	4.41	≤ 13	Pass
16QAM	1711.5	15	0	4.77	≤ 13	Pass
	1732.5	15	0	6.13	≤ 13	Pass
	1753.5	15	0	5.29	≤ 13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	4.38	≤ 13	Pass
	1732.5	25	0	5.53	≤ 13	Pass
	1752.5	25	0	4.86	≤ 13	Pass
16QAM	1712.5	25	0	5.14	≤ 13	Pass
	1732.5	25	0	6.18	≤ 13	Pass
	1752.5	25	0	5.56	≤ 13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	4.54	≤ 13	Pass
	1732.5	50	0	5.50	≤ 13	Pass
	1750	50	0	4.98	≤ 13	Pass
16QAM	1715	50	0	5.29	≤ 13	Pass
	1732.5	50	0	6.22	≤ 13	Pass

	1750	50	0	5.73	<=13	Pass
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5.1.5 B4_15MHz

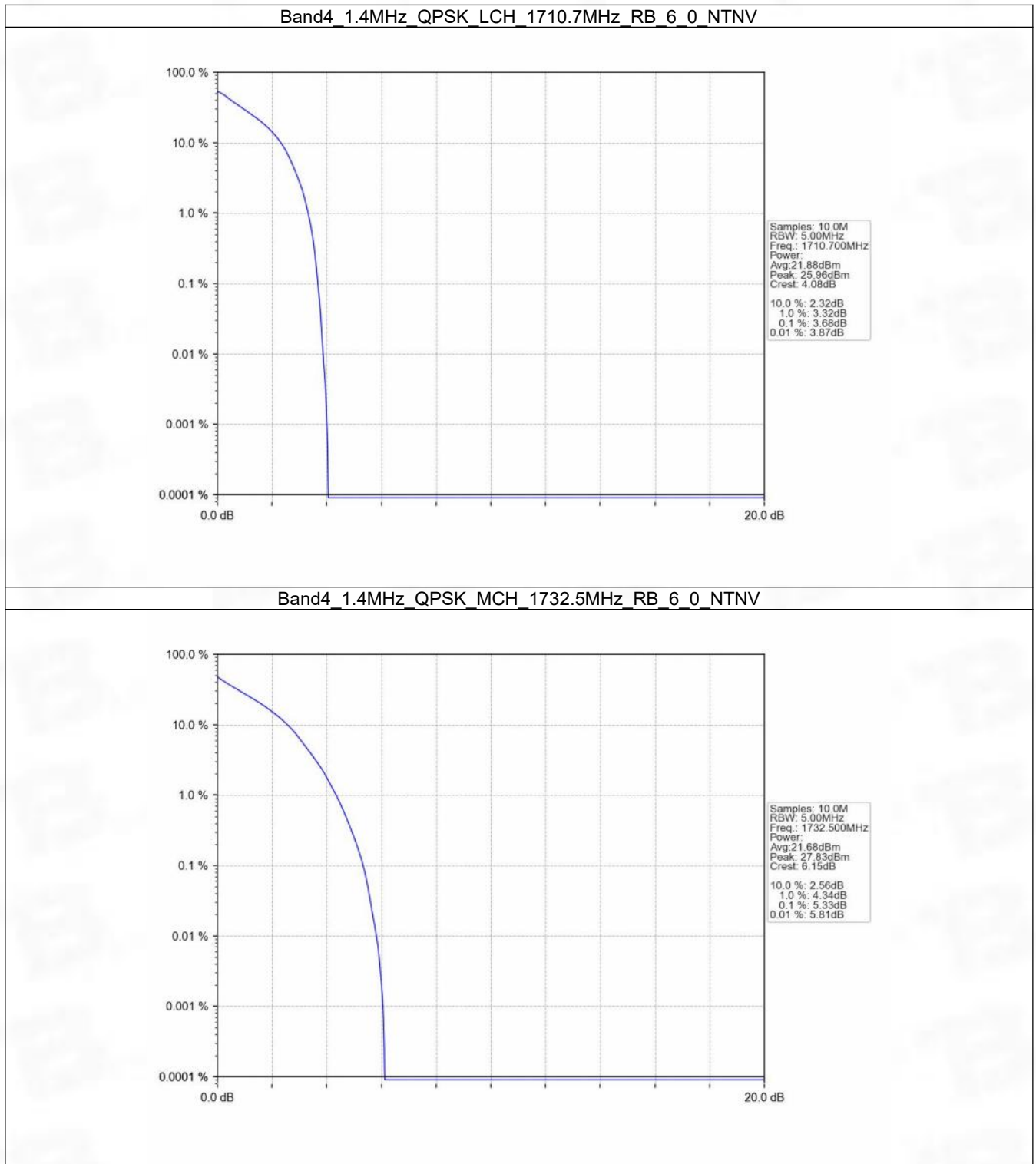
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	4.46	<=13	Pass
	1732.5	75	0	5.66	<=13	Pass
	1747.5	75	0	5.16	<=13	Pass
16QAM	1717.5	75	0	5.25	<=13	Pass
	1732.5	75	0	6.20	<=13	Pass
	1747.5	75	0	5.77	<=13	Pass

5.1.6 B4_20MHz

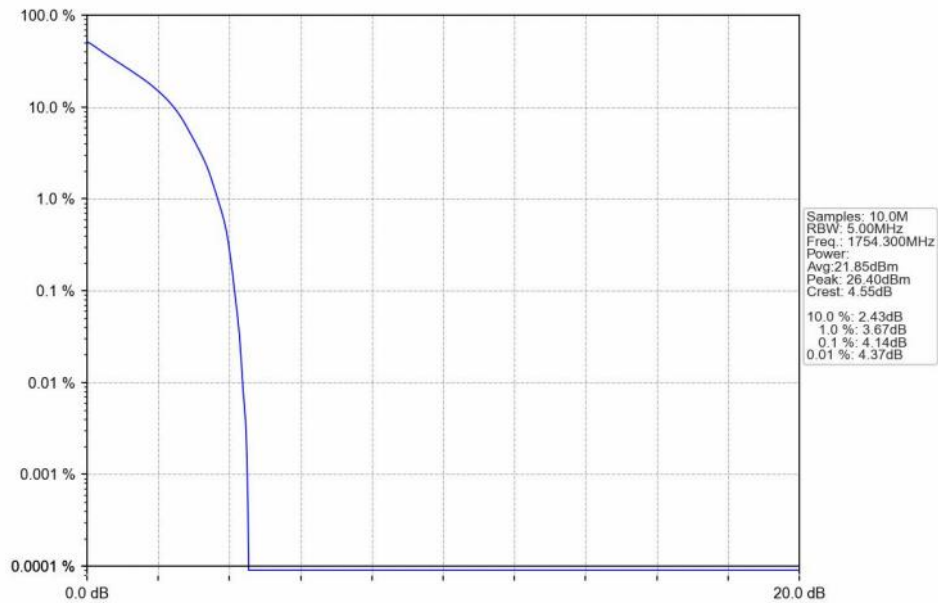
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	4.94	<=13	Pass
	1732.5	100	0	5.44	<=13	Pass
	1745	100	0	5.21	<=13	Pass
16QAM	1720	100	0	5.64	<=13	Pass
	1732.5	100	0	6.16	<=13	Pass
	1745	100	0	5.95	<=13	Pass

5.2 Test Graph

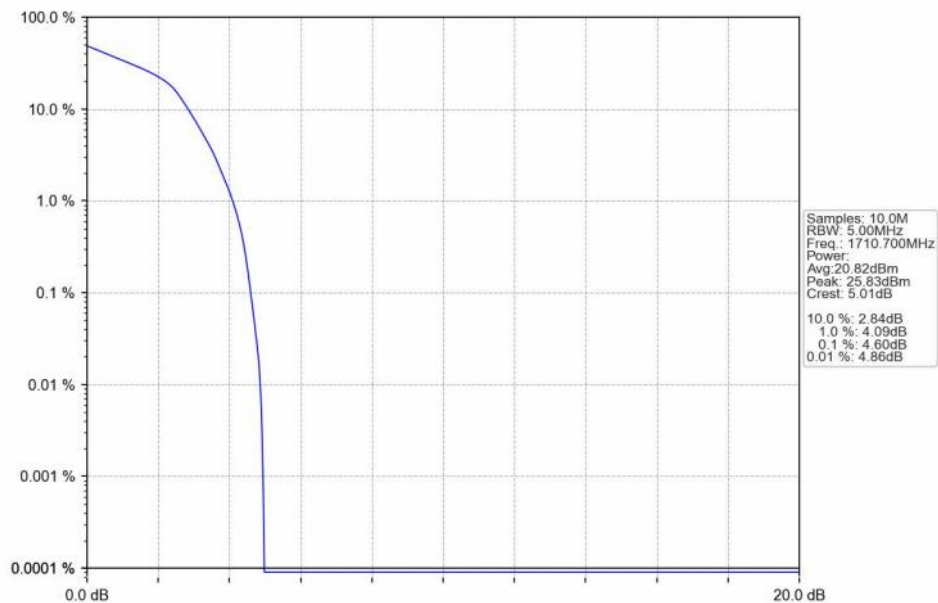
5.2.1 B4_1.4MHz



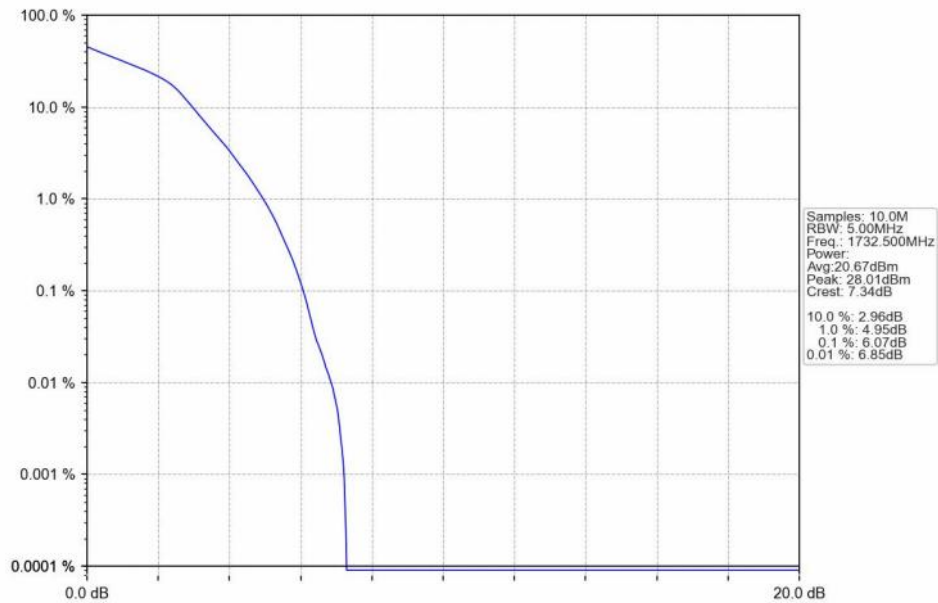
Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

