

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.80	1.15	23.95	<=30	Pass
			2	22.81	1.15	23.96	<=30	Pass
			5	22.52	1.15	23.67	<=30	Pass
		3	0	22.74	1.15	23.89	<=30	Pass
			2	22.46	1.15	23.61	<=30	Pass
			3	22.33	1.15	23.48	<=30	Pass
		6	0	21.42	1.15	22.57	<=30	Pass
	1732.5	1	0	22.39	1.15	23.54	<=30	Pass
			2	22.45	1.15	23.60	<=30	Pass
			5	22.49	1.15	23.64	<=30	Pass
		3	0	22.33	1.15	23.48	<=30	Pass
			2	22.38	1.15	23.53	<=30	Pass
			3	22.30	1.15	23.45	<=30	Pass
		6	0	21.26	1.15	22.41	<=30	Pass
	1754.3	1	0	22.31	1.15	23.46	<=30	Pass
			2	22.44	1.15	23.59	<=30	Pass
			5	22.38	1.15	23.53	<=30	Pass
		3	0	22.32	1.15	23.47	<=30	Pass
			2	22.34	1.15	23.49	<=30	Pass
			3	22.28	1.15	23.43	<=30	Pass
		6	0	21.32	1.15	22.47	<=30	Pass
16QAM	1710.7	1	0	21.32	1.15	22.47	<=30	Pass
			2	21.43	1.15	22.58	<=30	Pass
			5	21.09	1.15	22.24	<=30	Pass
		3	0	21.27	1.15	22.42	<=30	Pass
			2	21.48	1.15	22.63	<=30	Pass
			3	21.49	1.15	22.64	<=30	Pass
		6	0	20.41	1.15	21.56	<=30	Pass
	1732.5	1	0	21.20	1.15	22.35	<=30	Pass
			2	21.14	1.15	22.29	<=30	Pass
			5	21.20	1.15	22.35	<=30	Pass
		3	0	21.22	1.15	22.37	<=30	Pass
			2	21.12	1.15	22.27	<=30	Pass
			3	21.19	1.15	22.34	<=30	Pass
		6	0	20.04	1.15	21.19	<=30	Pass
	1754.3	1	0	21.20	1.15	22.35	<=30	Pass
			2	21.21	1.15	22.36	<=30	Pass
			5	20.74	1.15	21.89	<=30	Pass
		3	0	21.28	1.15	22.43	<=30	Pass
			2	21.41	1.15	22.56	<=30	Pass
			3	21.40	1.15	22.55	<=30	Pass
		6	0	20.26	1.15	21.41	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	1711.5	1	0	22.30	1.15	23.45	<=30	Pass	
			7	22.31	1.15	23.46	<=30	Pass	
			14	22.16	1.15	23.31	<=30	Pass	
		8	0	21.40	1.15	22.55	<=30	Pass	
			4	21.45	1.15	22.60	<=30	Pass	
			7	21.50	1.15	22.65	<=30	Pass	
		15	0	21.44	1.15	22.59	<=30	Pass	
		1732.5	1	0	22.40	1.15	23.55	<=30	Pass
				7	22.57	1.15	23.72	<=30	Pass
	14			22.41	1.15	23.56	<=30	Pass	
	8		0	21.26	1.15	22.41	<=30	Pass	
			4	21.27	1.15	22.42	<=30	Pass	
			7	21.23	1.15	22.38	<=30	Pass	
	15	0	21.20	1.15	22.35	<=30	Pass		
	1753.5	1	0	22.36	1.15	23.51	<=30	Pass	
			7	22.58	1.15	23.73	<=30	Pass	
			14	22.28	1.15	23.43	<=30	Pass	
		8	0	21.15	1.15	22.30	<=30	Pass	
			4	21.30	1.15	22.45	<=30	Pass	
			7	21.30	1.15	22.45	<=30	Pass	
		15	0	21.32	1.15	22.47	<=30	Pass	
16QAM		1711.5	1	0	21.43	1.15	22.58	<=30	Pass
				7	21.40	1.15	22.55	<=30	Pass
	14			21.09	1.15	22.24	<=30	Pass	
	8		0	20.06	1.15	21.21	<=30	Pass	
			4	20.33	1.15	21.48	<=30	Pass	
			7	20.32	1.15	21.47	<=30	Pass	
	15		0	20.09	1.15	21.24	<=30	Pass	
	1732.5	1	0	20.86	1.15	22.01	<=30	Pass	
			7	21.08	1.15	22.23	<=30	Pass	
			14	21.04	1.15	22.19	<=30	Pass	
		8	0	20.03	1.15	21.18	<=30	Pass	
			4	20.14	1.15	21.29	<=30	Pass	
			7	20.00	1.15	21.15	<=30	Pass	
	15	0	20.10	1.15	21.25	<=30	Pass		
	1753.5	1	0	20.68	1.15	21.83	<=30	Pass	
			7	20.82	1.15	21.97	<=30	Pass	
			14	20.73	1.15	21.88	<=30	Pass	
		8	0	20.18	1.15	21.33	<=30	Pass	
			4	20.32	1.15	21.47	<=30	Pass	
			7	20.34	1.15	21.49	<=30	Pass	
		15	0	19.98	1.15	21.13	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	22.50	1.15	23.65	<=30	Pass
			13	22.38	1.15	23.53	<=30	Pass
			24	22.25	1.15	23.40	<=30	Pass
		12	0	21.31	1.15	22.46	<=30	Pass
			6	21.16	1.15	22.31	<=30	Pass
			13	21.14	1.15	22.29	<=30	Pass

	1732.5	25	0	21.28	1.15	22.43	<=30	Pass	
		1	0	22.51	1.15	23.66	<=30	Pass	
			13	22.52	1.15	23.67	<=30	Pass	
			24	22.30	1.15	23.45	<=30	Pass	
			0	21.26	1.15	22.41	<=30	Pass	
		12	6	21.28	1.15	22.43	<=30	Pass	
			13	21.19	1.15	22.34	<=30	Pass	
			25	0	21.23	1.15	22.38	<=30	Pass
		1752.5	1	0	22.29	1.15	23.44	<=30	Pass
	13			22.53	1.15	23.68	<=30	Pass	
	24			22.44	1.15	23.59	<=30	Pass	
	12		0	21.31	1.15	22.46	<=30	Pass	
			6	21.31	1.15	22.46	<=30	Pass	
			13	21.39	1.15	22.54	<=30	Pass	
	25		0	21.33	1.15	22.48	<=30	Pass	
16QAM	1712.5		1	0	21.23	1.15	22.38	<=30	Pass
				13	20.78	1.15	21.93	<=30	Pass
		24		20.60	1.15	21.75	<=30	Pass	
		12	0	20.11	1.15	21.26	<=30	Pass	
			6	20.09	1.15	21.24	<=30	Pass	
			13	20.07	1.15	21.22	<=30	Pass	
		25	0	20.19	1.15	21.34	<=30	Pass	
	1732.5	1	0	21.02	1.15	22.17	<=30	Pass	
			13	20.86	1.15	22.01	<=30	Pass	
			24	21.01	1.15	22.16	<=30	Pass	
		12	0	20.12	1.15	21.27	<=30	Pass	
			6	20.17	1.15	21.32	<=30	Pass	
			13	20.25	1.15	21.40	<=30	Pass	
		25	0	20.08	1.15	21.23	<=30	Pass	
	1752.5	1	0	20.99	1.15	22.14	<=30	Pass	
			13	21.25	1.15	22.40	<=30	Pass	
			24	20.75	1.15	21.90	<=30	Pass	
		12	0	20.13	1.15	21.28	<=30	Pass	
			6	20.19	1.15	21.34	<=30	Pass	
			13	20.26	1.15	21.41	<=30	Pass	
		25	0	20.22	1.15	21.37	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	22.02	1.15	23.17	<=30	Pass
			25	22.56	1.15	23.71	<=30	Pass
			49	22.31	1.15	23.46	<=30	Pass
		25	0	21.33	1.15	22.48	<=30	Pass
			13	21.29	1.15	22.44	<=30	Pass
			25	21.32	1.15	22.47	<=30	Pass
		50	0	21.34	1.15	22.49	<=30	Pass
	1732.5	1	0	22.42	1.15	23.57	<=30	Pass
			25	22.63	1.15	23.78	<=30	Pass
			49	22.34	1.15	23.49	<=30	Pass
		25	0	21.06	1.15	22.21	<=30	Pass
			13	21.27	1.15	22.42	<=30	Pass
			25	21.16	1.15	22.31	<=30	Pass
		50	0	21.24	1.15	22.39	<=30	Pass

	1750	1	0	22.30	1.15	23.45	<=30	Pass		
			25	22.79	1.15	23.94	<=30	Pass		
			49	22.56	1.15	23.71	<=30	Pass		
		25	0	21.13	1.15	22.28	<=30	Pass		
			13	21.20	1.15	22.35	<=30	Pass		
			25	21.23	1.15	22.38	<=30	Pass		
		50	0	21.25	1.15	22.40	<=30	Pass		
		16QAM	1715	1	0	21.31	1.15	22.46	<=30	Pass
					25	21.34	1.15	22.49	<=30	Pass
49	20.95				1.15	22.10	<=30	Pass		
25	0			20.35	1.15	21.50	<=30	Pass		
	13			20.50	1.15	21.65	<=30	Pass		
	25			20.40	1.15	21.55	<=30	Pass		
50	0			20.34	1.15	21.49	<=30	Pass		
1732.5	1			0	20.72	1.15	21.87	<=30	Pass	
				25	21.29	1.15	22.44	<=30	Pass	
			49	20.82	1.15	21.97	<=30	Pass		
	25		0	20.23	1.15	21.38	<=30	Pass		
			13	20.25	1.15	21.40	<=30	Pass		
			25	20.06	1.15	21.21	<=30	Pass		
	50		0	20.05	1.15	21.20	<=30	Pass		
	1750		1	0	20.97	1.15	22.12	<=30	Pass	
				25	21.20	1.15	22.35	<=30	Pass	
49				21.12	1.15	22.27	<=30	Pass		
25			0	20.10	1.15	21.25	<=30	Pass		
		13	20.25	1.15	21.40	<=30	Pass			
		25	20.28	1.15	21.43	<=30	Pass			
50		0	20.20	1.15	21.35	<=30	Pass			
Note1: EIRP=Conducted Power+Antenna Gain										

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.36	1.15	23.51	<=30	Pass
			38	22.62	1.15	23.77	<=30	Pass
			74	22.25	1.15	23.40	<=30	Pass
		36	0	21.36	1.15	22.51	<=30	Pass
			18	21.40	1.15	22.55	<=30	Pass
			39	21.20	1.15	22.35	<=30	Pass
		75	0	21.25	1.15	22.40	<=30	Pass
	1732.5	1	0	22.42	1.15	23.57	<=30	Pass
			38	22.75	1.15	23.90	<=30	Pass
			74	22.39	1.15	23.54	<=30	Pass
		36	0	21.23	1.15	22.38	<=30	Pass
			18	21.15	1.15	22.30	<=30	Pass
			39	21.17	1.15	22.32	<=30	Pass
		75	0	21.22	1.15	22.37	<=30	Pass
	1747.5	1	0	22.23	1.15	23.38	<=30	Pass
			38	22.43	1.15	23.58	<=30	Pass
			74	22.47	1.15	23.62	<=30	Pass
		36	0	21.15	1.15	22.30	<=30	Pass
			18	21.17	1.15	22.32	<=30	Pass
			39	21.22	1.15	22.37	<=30	Pass
		75	0	21.20	1.15	22.35	<=30	Pass
16QAM	1717.5	1	0	20.92	1.15	22.07	<=30	Pass

			38	21.08	1.15	22.23	<=30	Pass
			74	20.58	1.15	21.73	<=30	Pass
		36	0	20.19	1.15	21.34	<=30	Pass
			18	20.39	1.15	21.54	<=30	Pass
			39	20.15	1.15	21.30	<=30	Pass
		75	0	20.17	1.15	21.32	<=30	Pass
	1732.5	1	0	20.81	1.15	21.96	<=30	Pass
			38	20.96	1.15	22.11	<=30	Pass
			74	20.44	1.15	21.59	<=30	Pass
		36	0	20.02	1.15	21.17	<=30	Pass
			18	20.22	1.15	21.37	<=30	Pass
			39	20.05	1.15	21.20	<=30	Pass
	75	0	20.10	1.15	21.25	<=30	Pass	
	1747.5	1	0	20.36	1.15	21.51	<=30	Pass
			38	20.77	1.15	21.92	<=30	Pass
			74	21.15	1.15	22.30	<=30	Pass
		36	0	20.07	1.15	21.22	<=30	Pass
			18	20.21	1.15	21.36	<=30	Pass
			39	20.18	1.15	21.33	<=30	Pass
	75	0	20.30	1.15	21.45	<=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	22.39	1.15	23.54	<=30	Pass
			50	22.55	1.15	23.70	<=30	Pass
			99	22.18	1.15	23.33	<=30	Pass
		50	0	21.25	1.15	22.40	<=30	Pass
			25	21.29	1.15	22.44	<=30	Pass
			50	21.23	1.15	22.38	<=30	Pass
		100	0	21.26	1.15	22.41	<=30	Pass
	1732.5	1	0	22.21	1.15	23.36	<=30	Pass
			50	22.56	1.15	23.71	<=30	Pass
			99	22.36	1.15	23.51	<=30	Pass
		50	0	21.27	1.15	22.42	<=30	Pass
			25	21.30	1.15	22.45	<=30	Pass
			50	21.18	1.15	22.33	<=30	Pass
		100	0	21.25	1.15	22.40	<=30	Pass
	1745	1	0	22.47	1.15	23.62	<=30	Pass
			50	22.55	1.15	23.70	<=30	Pass
			99	22.39	1.15	23.54	<=30	Pass
		50	0	21.29	1.15	22.44	<=30	Pass
			25	21.25	1.15	22.40	<=30	Pass
			50	21.15	1.15	22.30	<=30	Pass
		100	0	21.21	1.15	22.36	<=30	Pass
16QAM	1720	1	0	20.69	1.15	21.84	<=30	Pass
			50	21.34	1.15	22.49	<=30	Pass
			99	20.95	1.15	22.10	<=30	Pass
		50	0	20.25	1.15	21.40	<=30	Pass
			25	20.41	1.15	21.56	<=30	Pass
			50	20.18	1.15	21.33	<=30	Pass
		100	0	20.14	1.15	21.29	<=30	Pass
	1732.5	1	0	21.01	1.15	22.16	<=30	Pass
			50	20.93	1.15	22.08	<=30	Pass

		50	99	20.94	1.15	22.09	<=30	Pass
			0	20.25	1.15	21.40	<=30	Pass
			25	20.31	1.15	21.46	<=30	Pass
			50	20.15	1.15	21.30	<=30	Pass
		100	0	20.07	1.15	21.22	<=30	Pass
	1745	1	0	21.03	1.15	22.18	<=30	Pass
			50	21.08	1.15	22.23	<=30	Pass
			99	20.88	1.15	22.03	<=30	Pass
		50	0	20.26	1.15	21.41	<=30	Pass
			25	20.22	1.15	21.37	<=30	Pass
			50	20.20	1.15	21.35	<=30	Pass
		100	0	20.14	1.15	21.29	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 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	1732.5	50	0	20	3.5	3.700	0.0021	-2.5 to 2.5	Pass
					3.87	2.300	0.0013	-2.5 to 2.5	Pass
					4.4	3.500	0.0020	-2.5 to 2.5	Pass
				-30	3.87	2.500	0.0014	-2.5 to 2.5	Pass
				-20	3.87	-1.200	-0.0007	-2.5 to 2.5	Pass
				-10	3.87	0.400	0.0002	-2.5 to 2.5	Pass
				0	3.87	-0.600	-0.0003	-2.5 to 2.5	Pass
				10	3.87	0.200	0.0001	-2.5 to 2.5	Pass
				30	3.87	-0.600	-0.0003	-2.5 to 2.5	Pass
				40	3.87	2.100	0.0012	-2.5 to 2.5	Pass
				50	3.87	0.200	0.0001	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

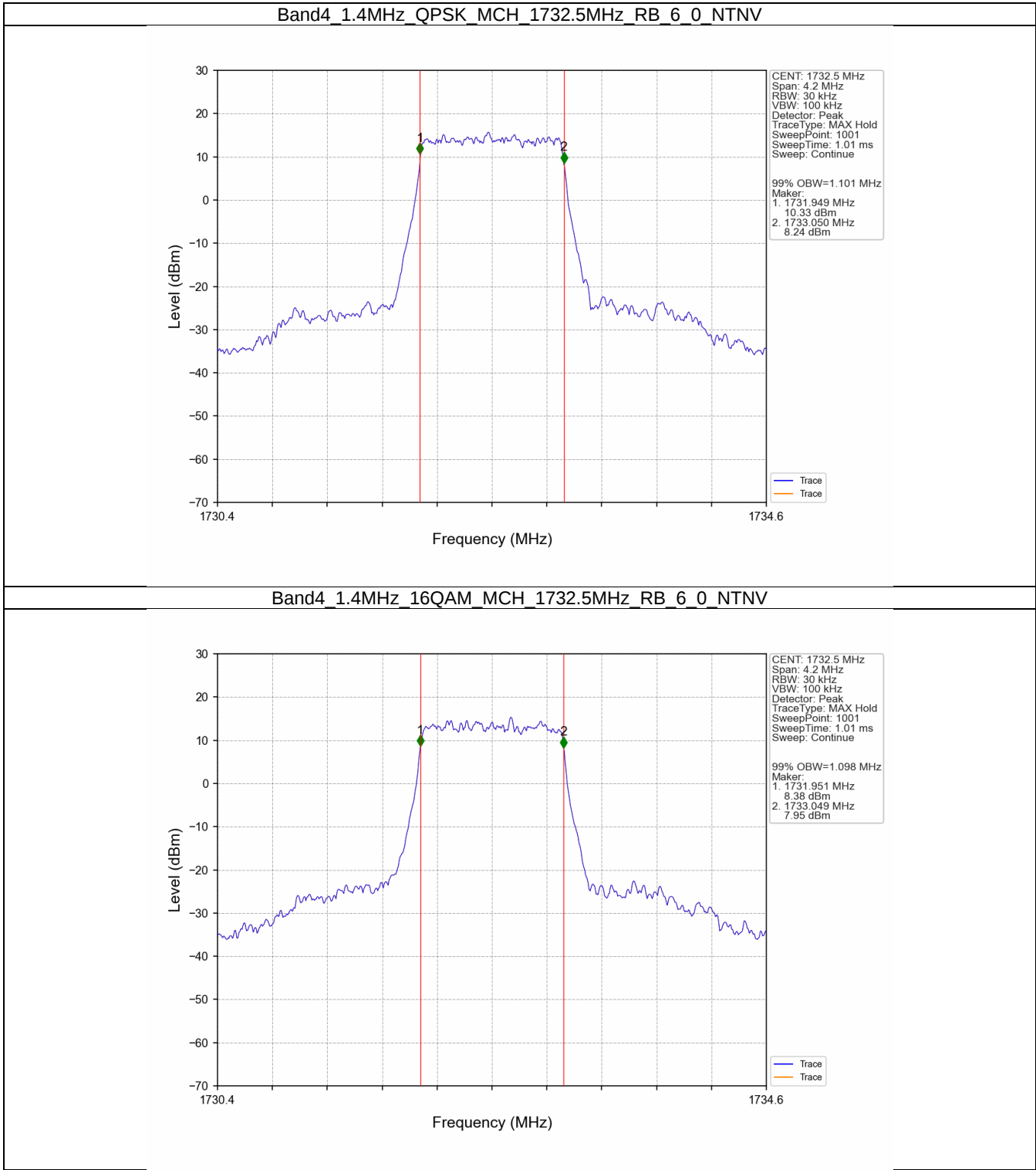
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.101	/	Pass
	16QAM	1732.5	6	0	1.098	/	Pass
3	QPSK	1732.5	15	0	2.739	/	Pass
	16QAM	1732.5	15	0	2.727	/	Pass
5	QPSK	1732.5	25	0	4.510	/	Pass
	16QAM	1732.5	25	0	4.500	/	Pass
10	QPSK	1732.5	50	0	8.961	/	Pass
	16QAM	1732.5	50	0	8.969	/	Pass
15	QPSK	1732.5	75	0	13.431	/	Pass
	16QAM	1732.5	75	0	13.443	/	Pass
20	QPSK	1732.5	100	0	18.044	/	Pass
	16QAM	1732.5	100	0	17.970	/	Pass

3.1.2 Band4_XDB

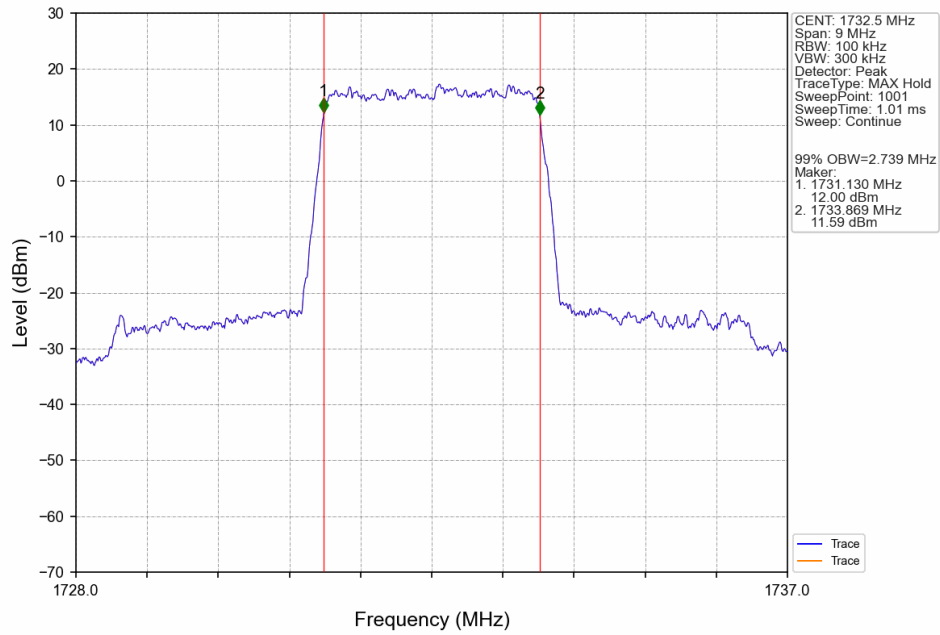
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.296	/	Pass
	16QAM	1732.5	6	0	1.288	/	Pass
3	QPSK	1732.5	15	0	3.058	/	Pass
	16QAM	1732.5	15	0	3.069	/	Pass
5	QPSK	1732.5	25	0	4.989	/	Pass
	16QAM	1732.5	25	0	5.009	/	Pass
10	QPSK	1732.5	50	0	9.843	/	Pass
	16QAM	1732.5	50	0	9.756	/	Pass
15	QPSK	1732.5	75	0	14.587	/	Pass
	16QAM	1732.5	75	0	14.632	/	Pass
20	QPSK	1732.5	100	0	19.415	/	Pass
	16QAM	1732.5	100	0	19.527	/	Pass

3.2 Test Graph

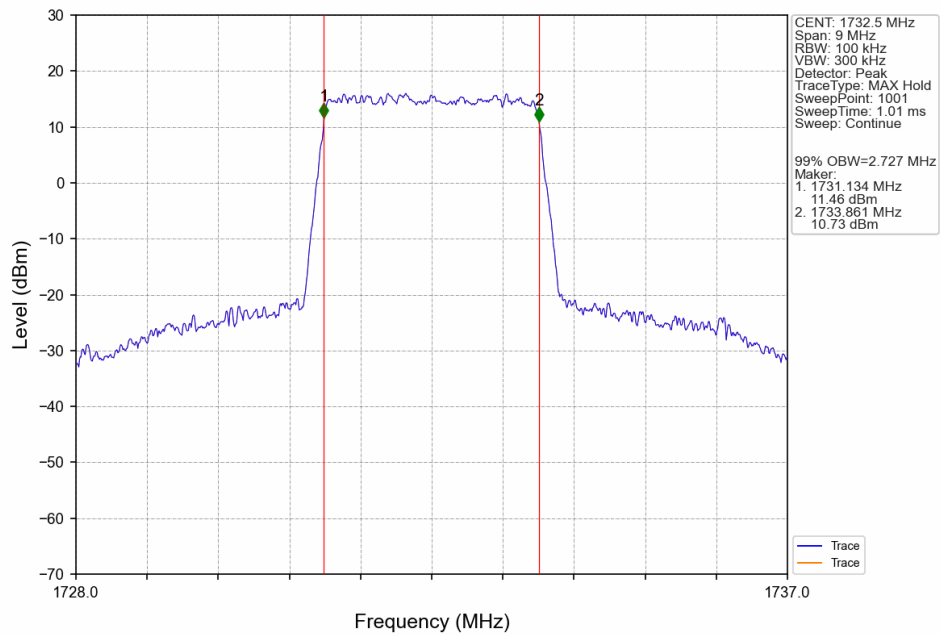
3.2.1 Band4_OBW



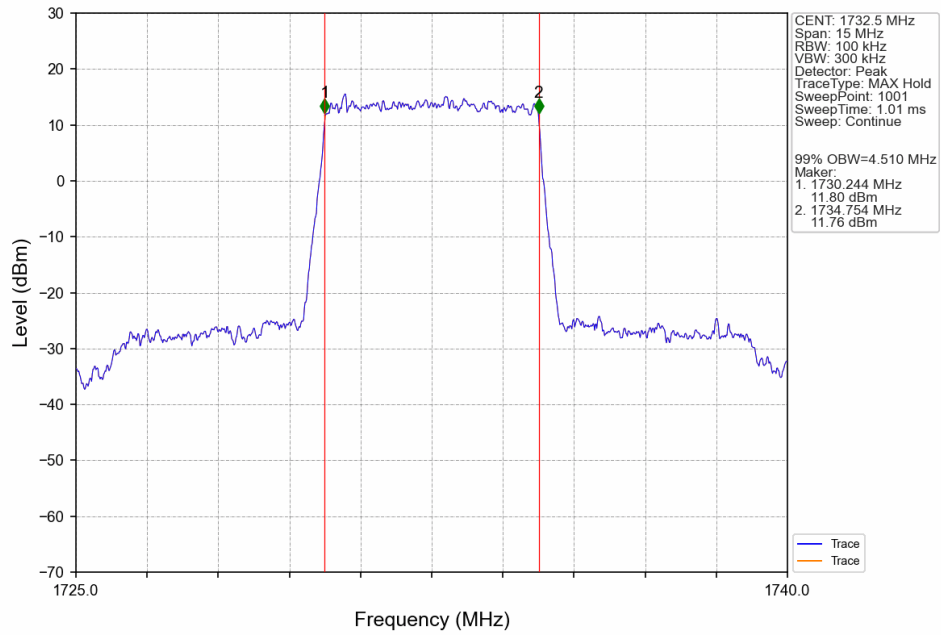
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



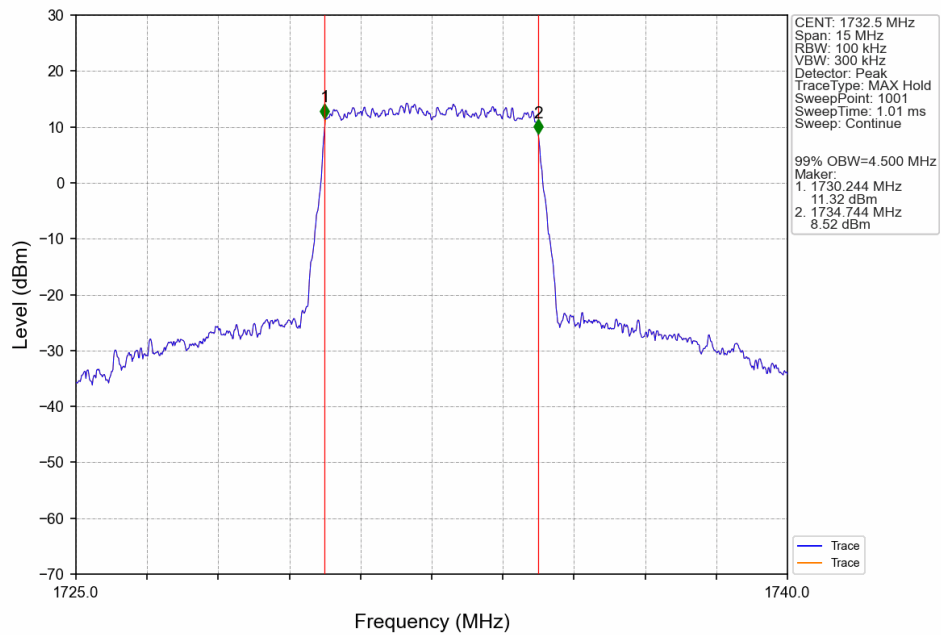
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



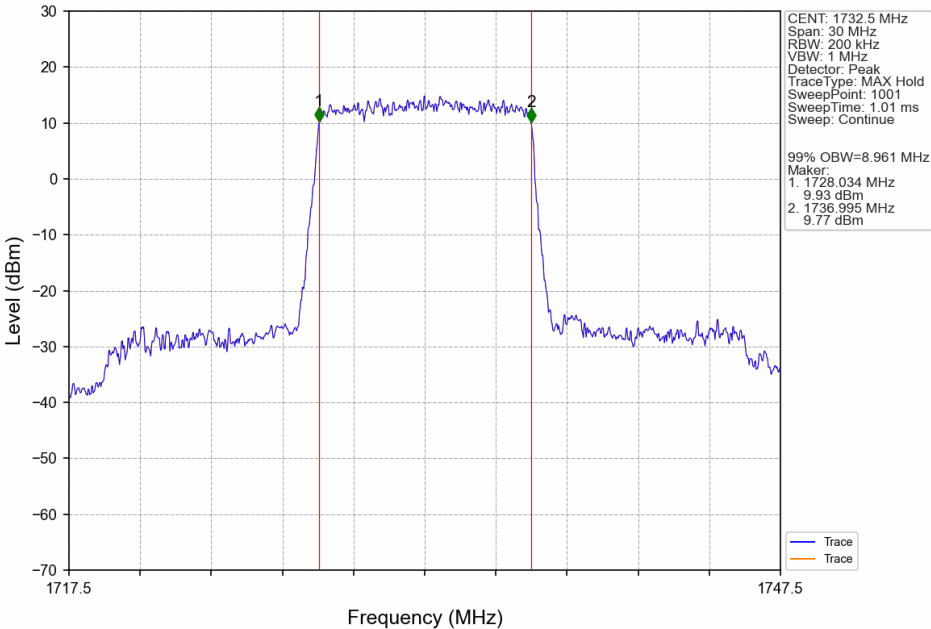
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



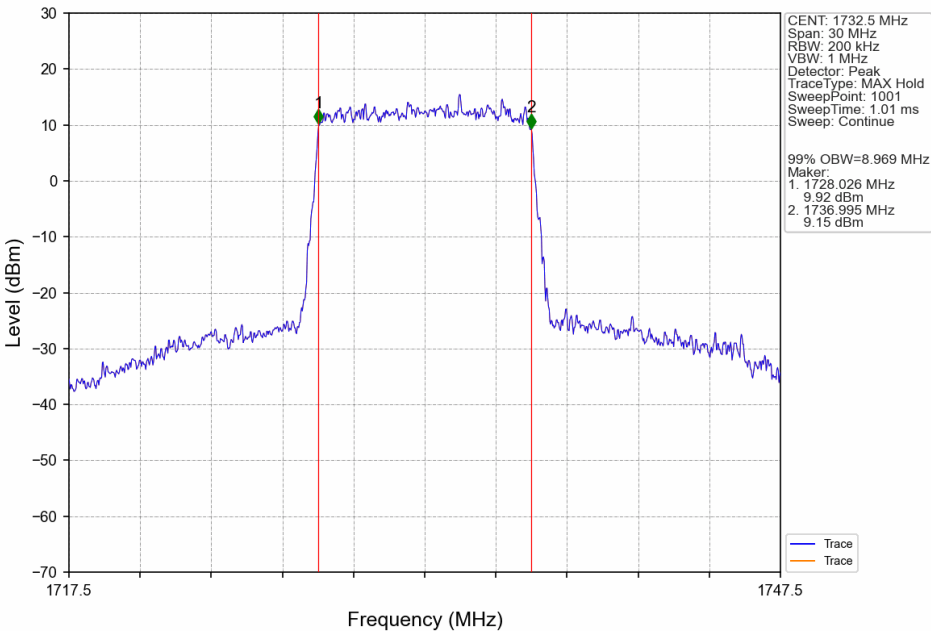
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



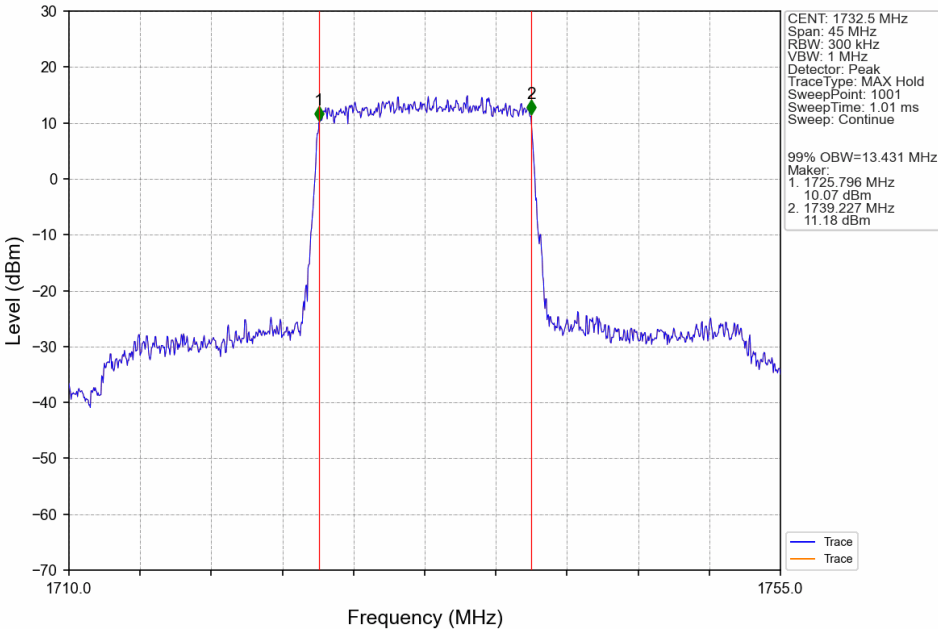
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



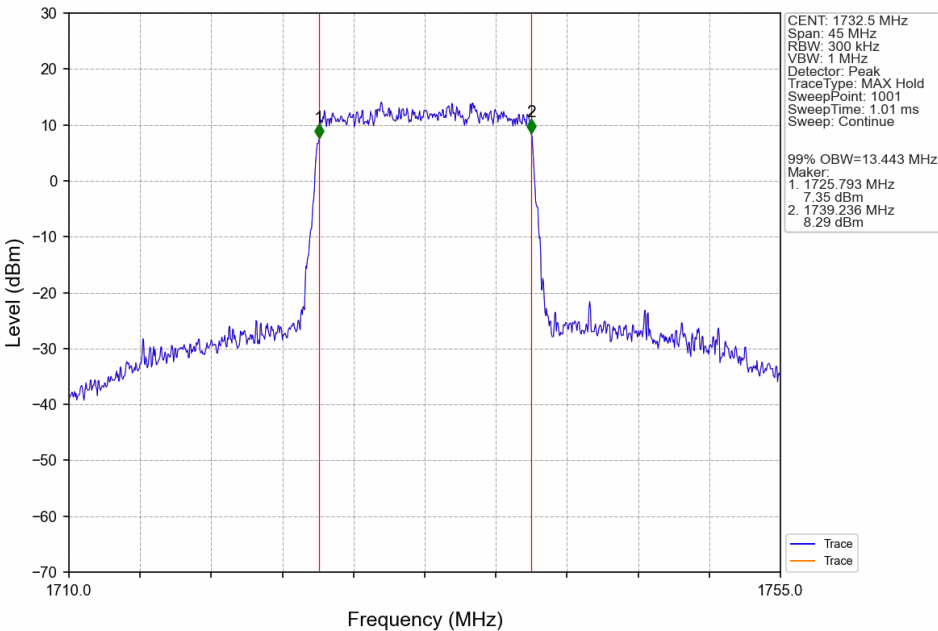
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



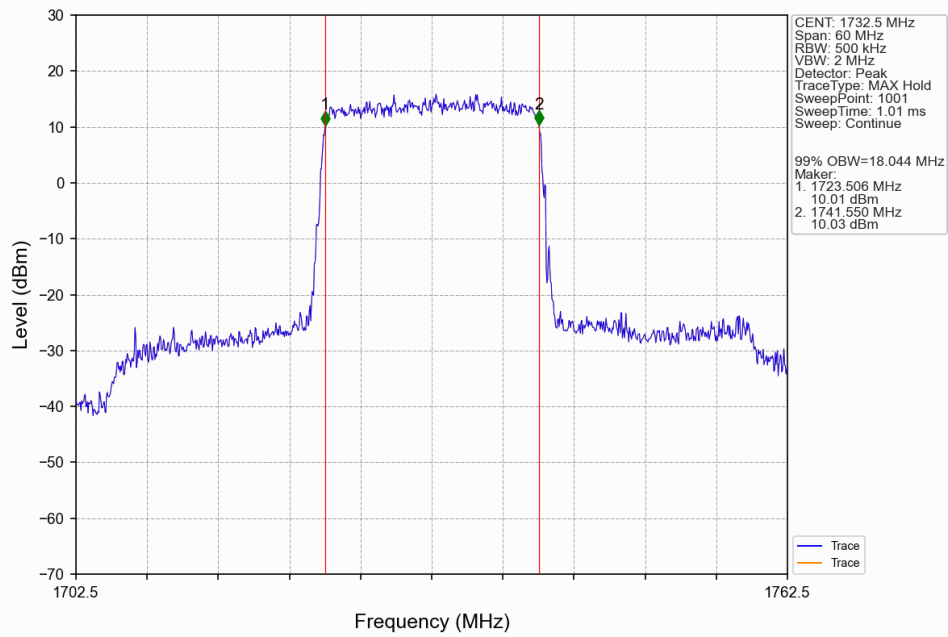
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



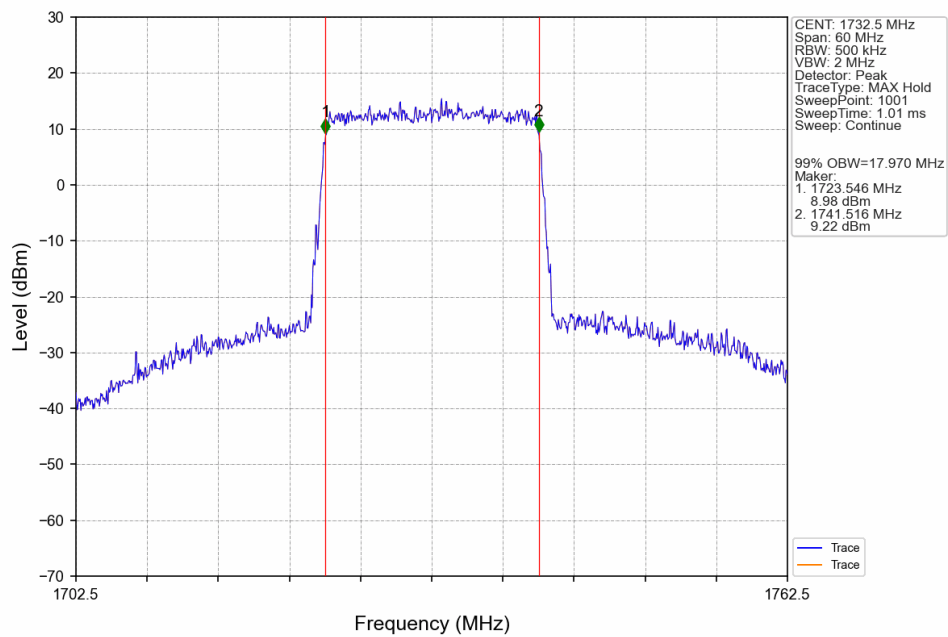
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



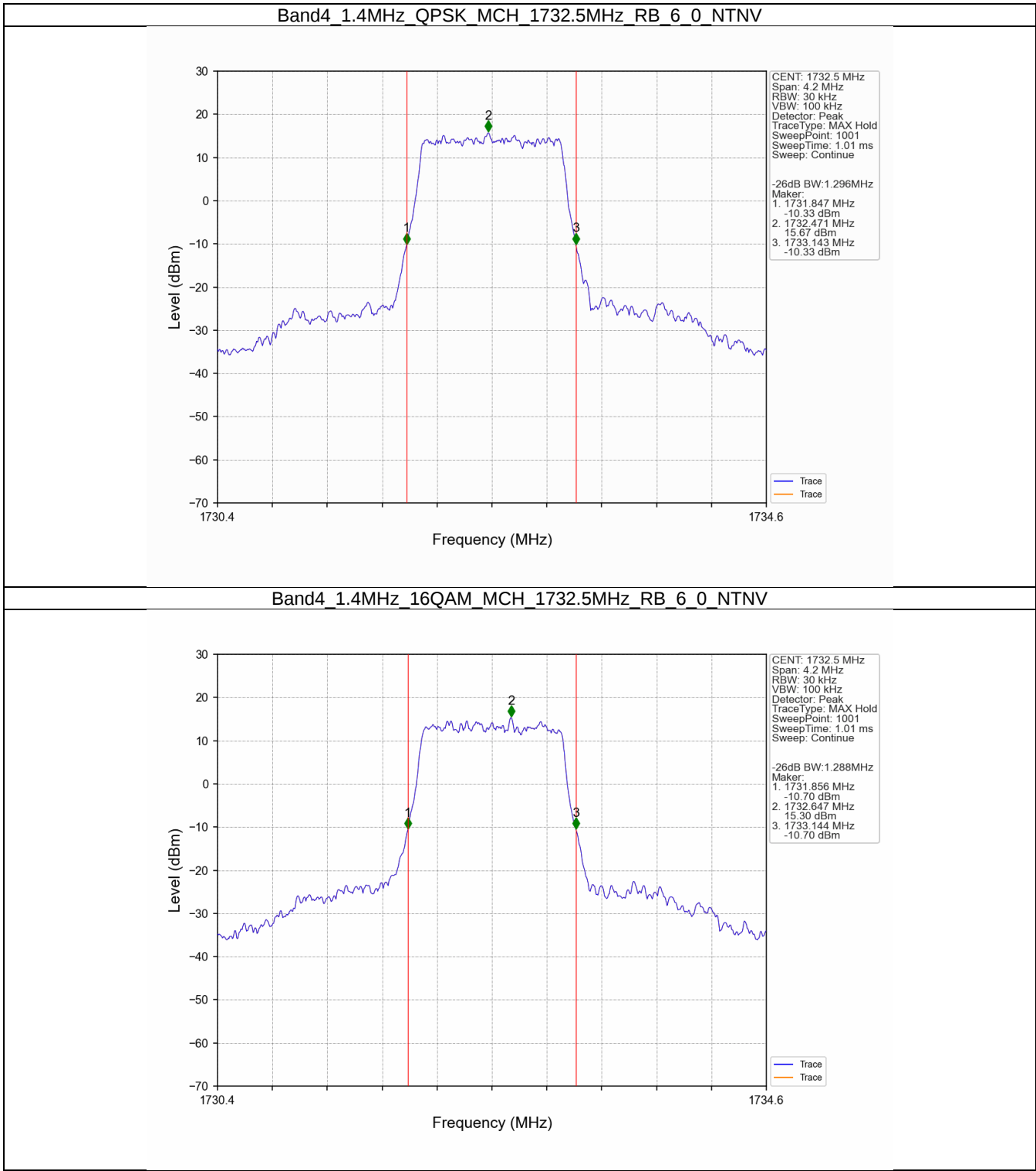
Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



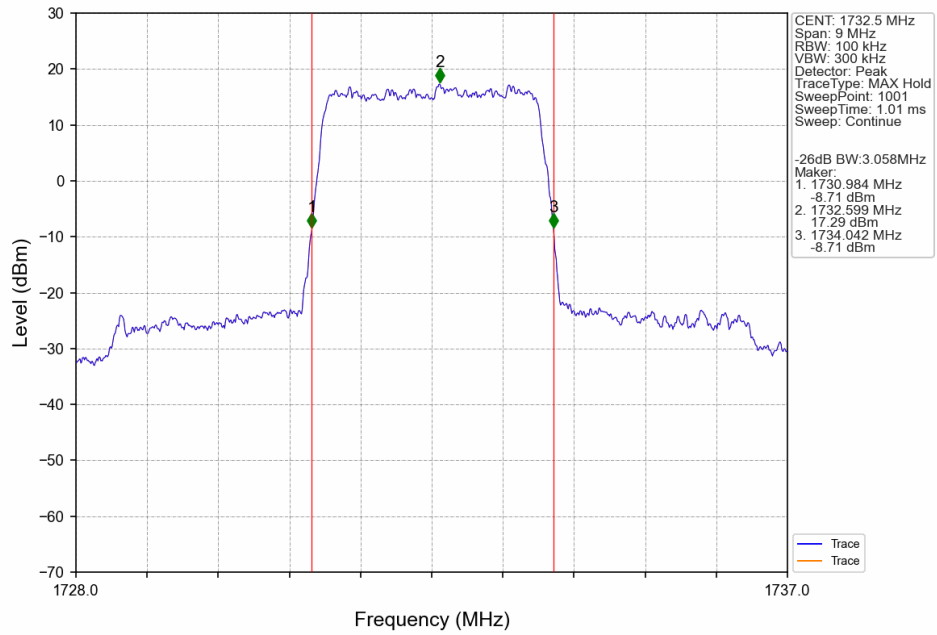
Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



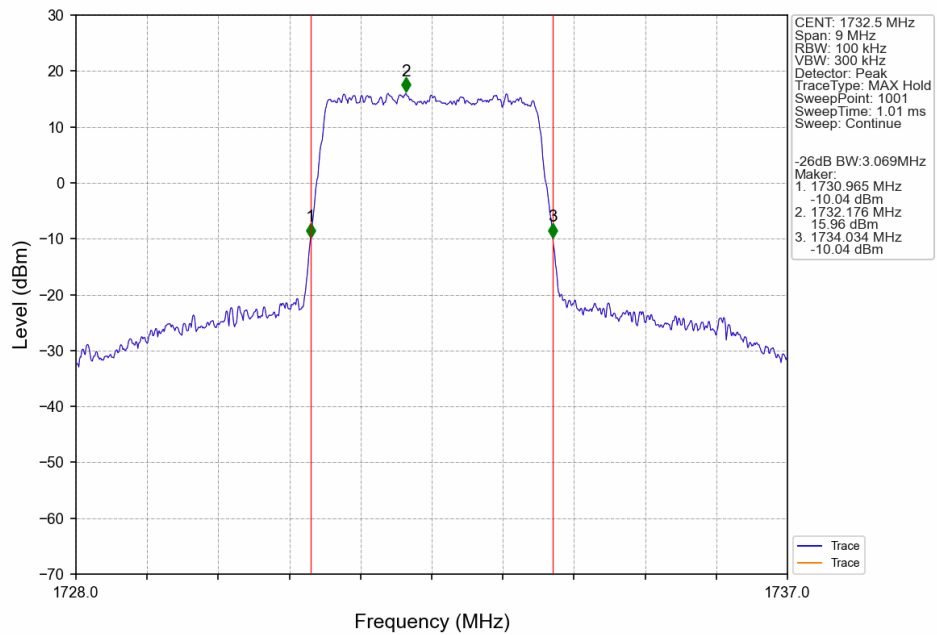
3.2.2 Band4_XDB



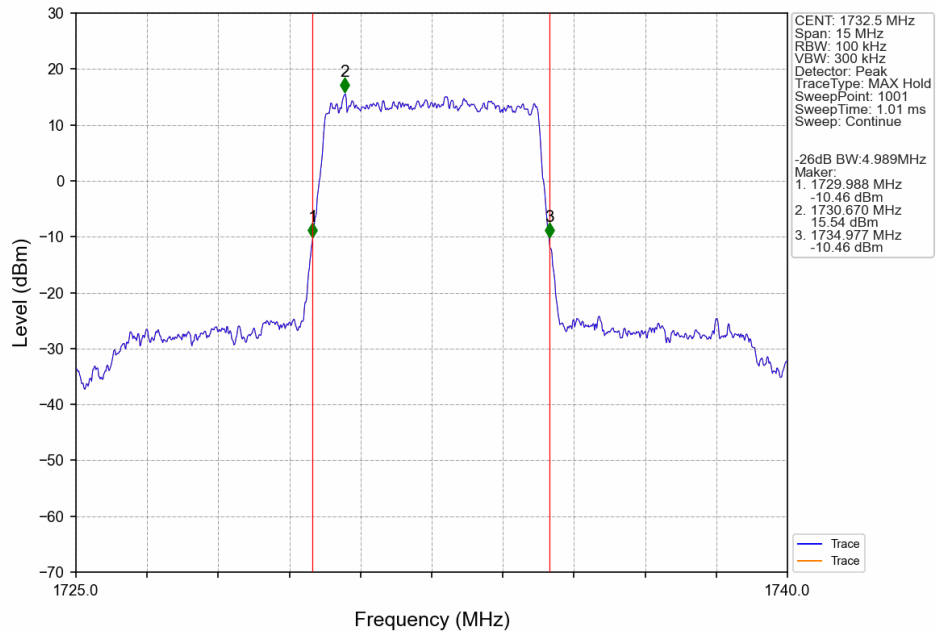
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



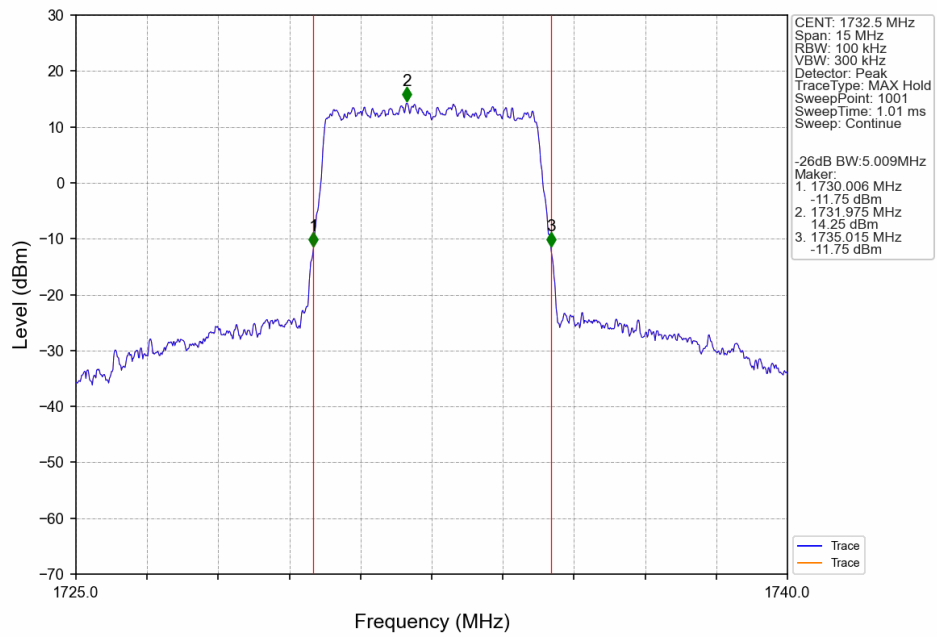
Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



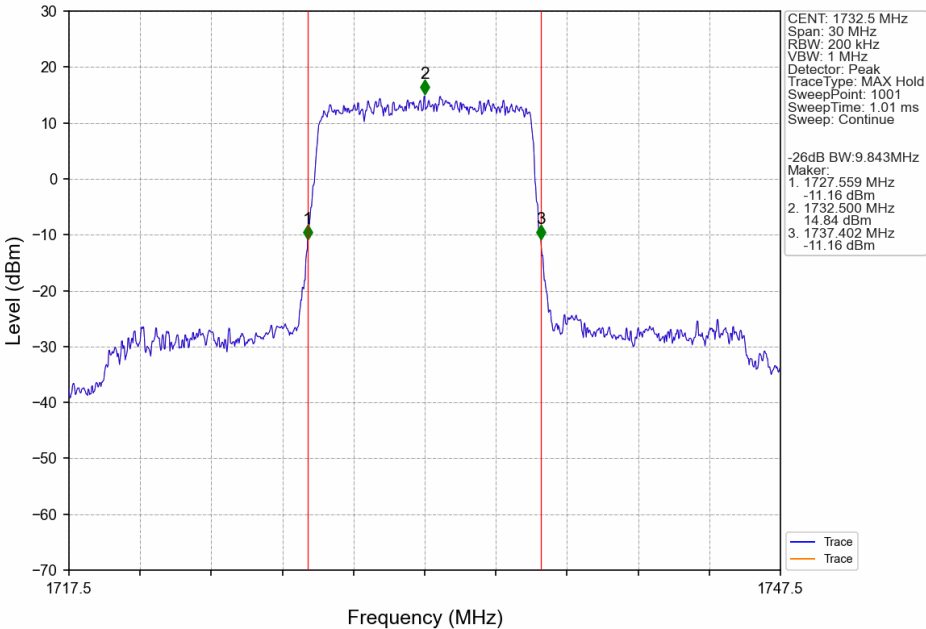
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



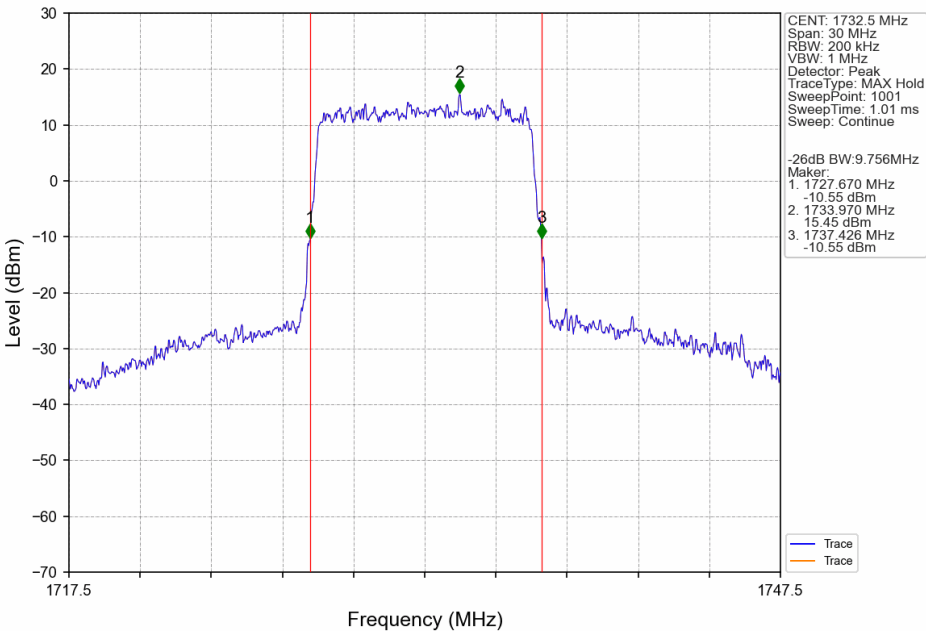
Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



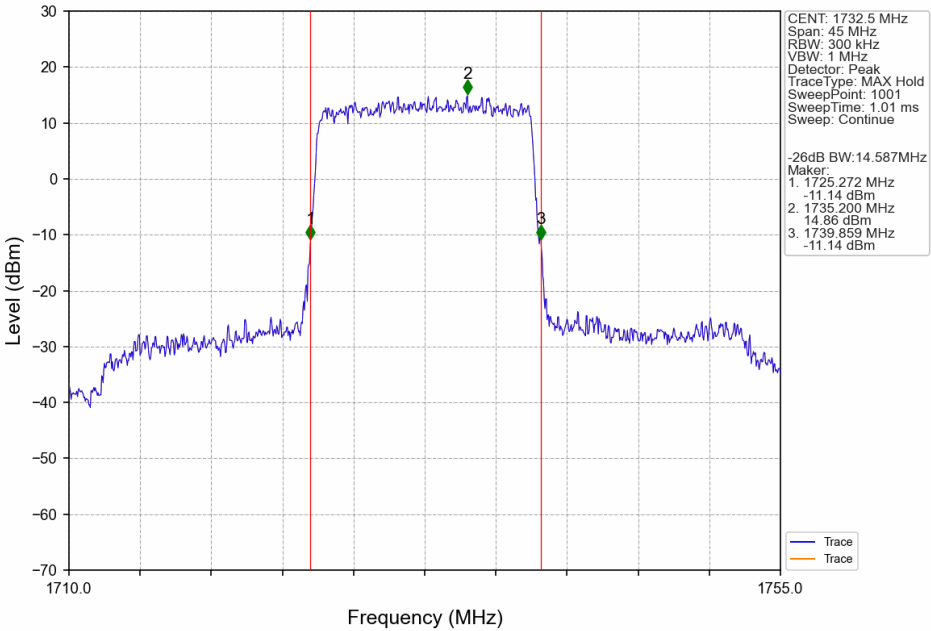
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



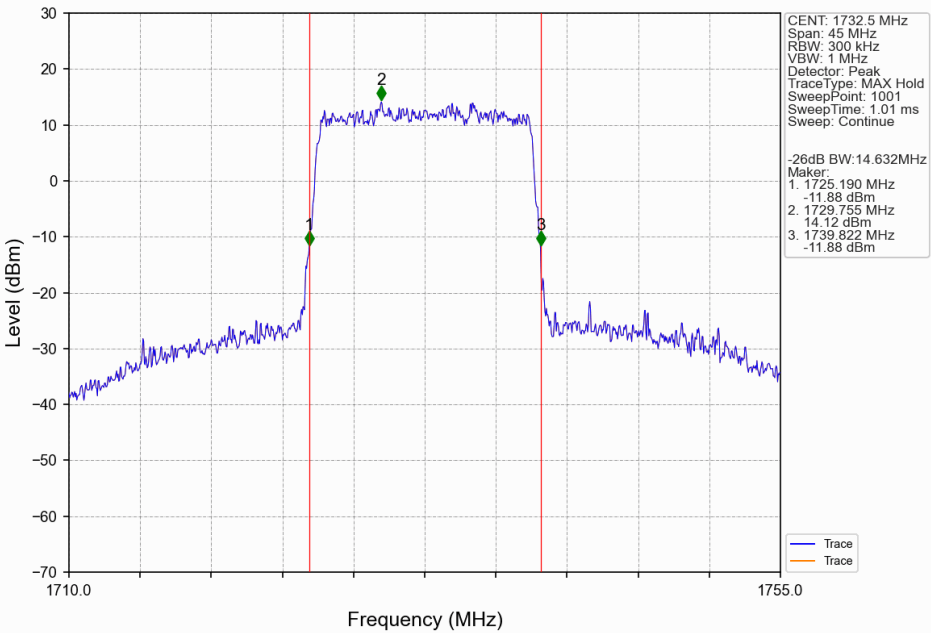
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



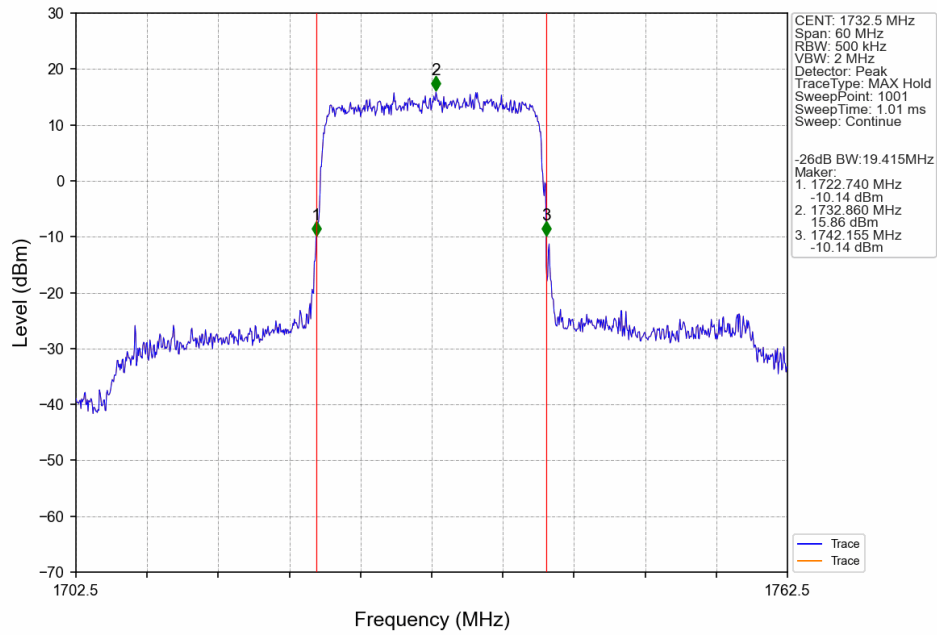
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



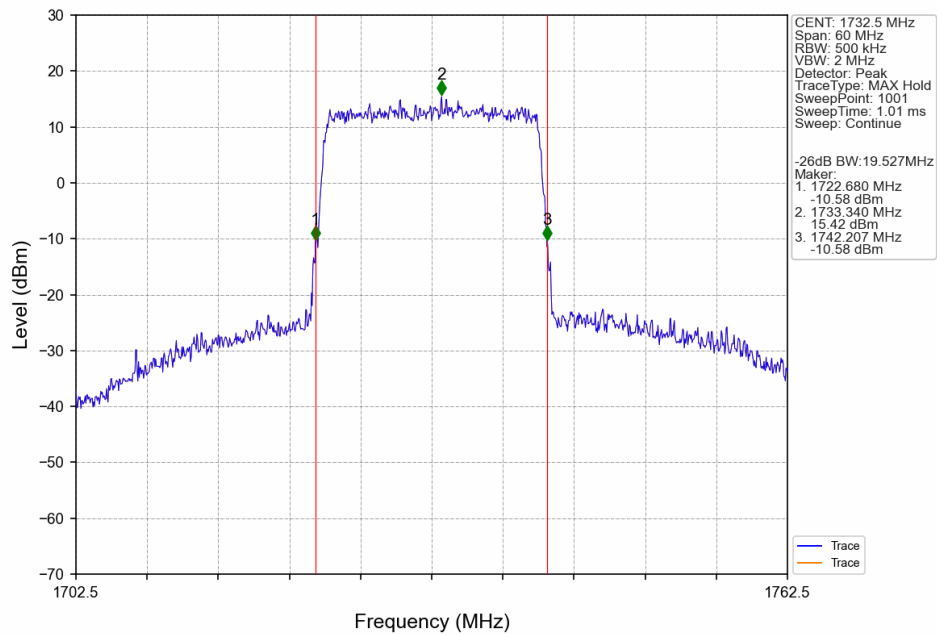
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



4. Peak-Average Ratio

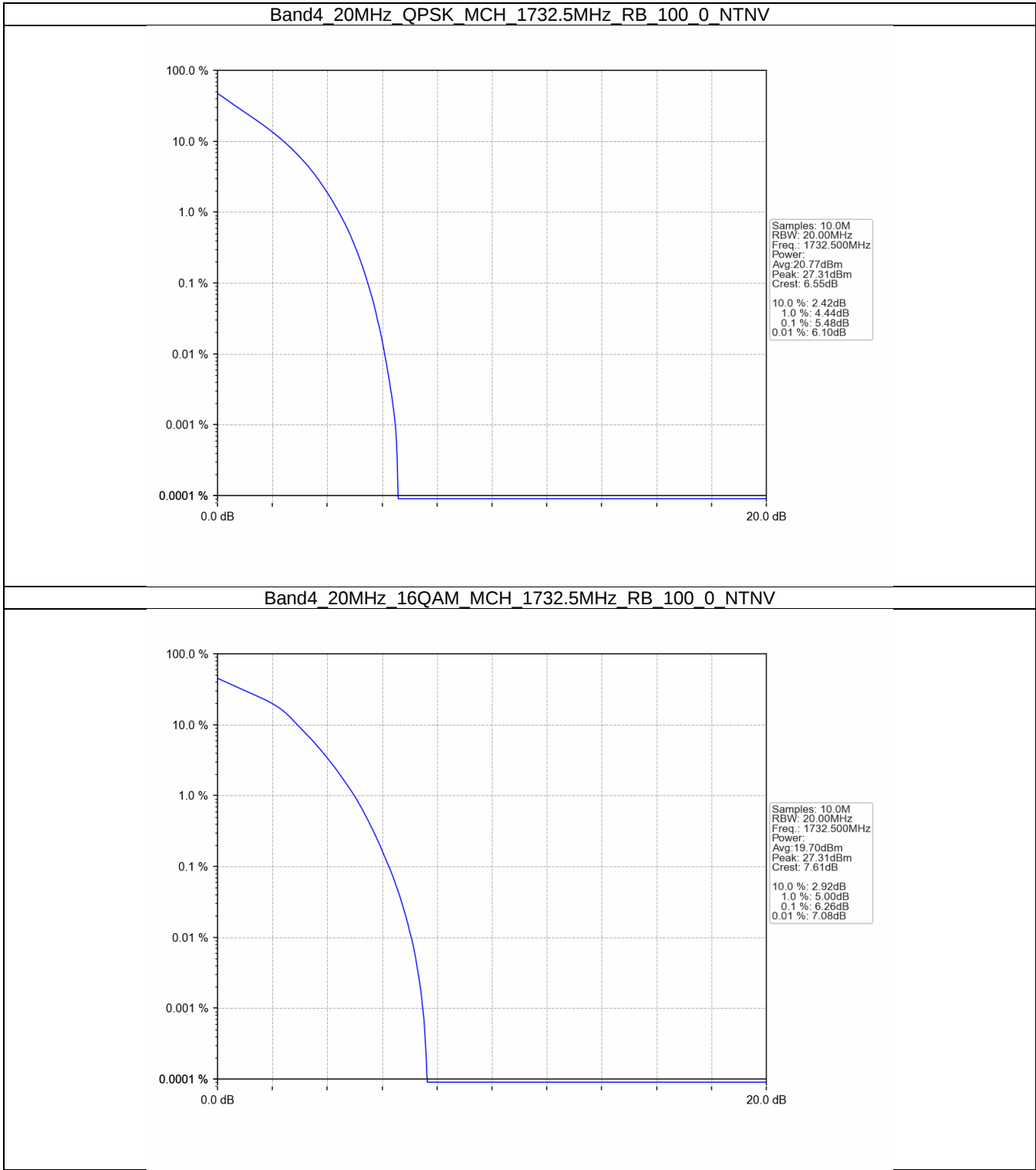
4.1 Test Result

4.1.1 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	5.48	<=13	Pass
16QAM	1732.5	100	0	6.26	<=13	Pass

4.2 Test Graph

4.2.1 B4_20MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.5 B4_15MHz

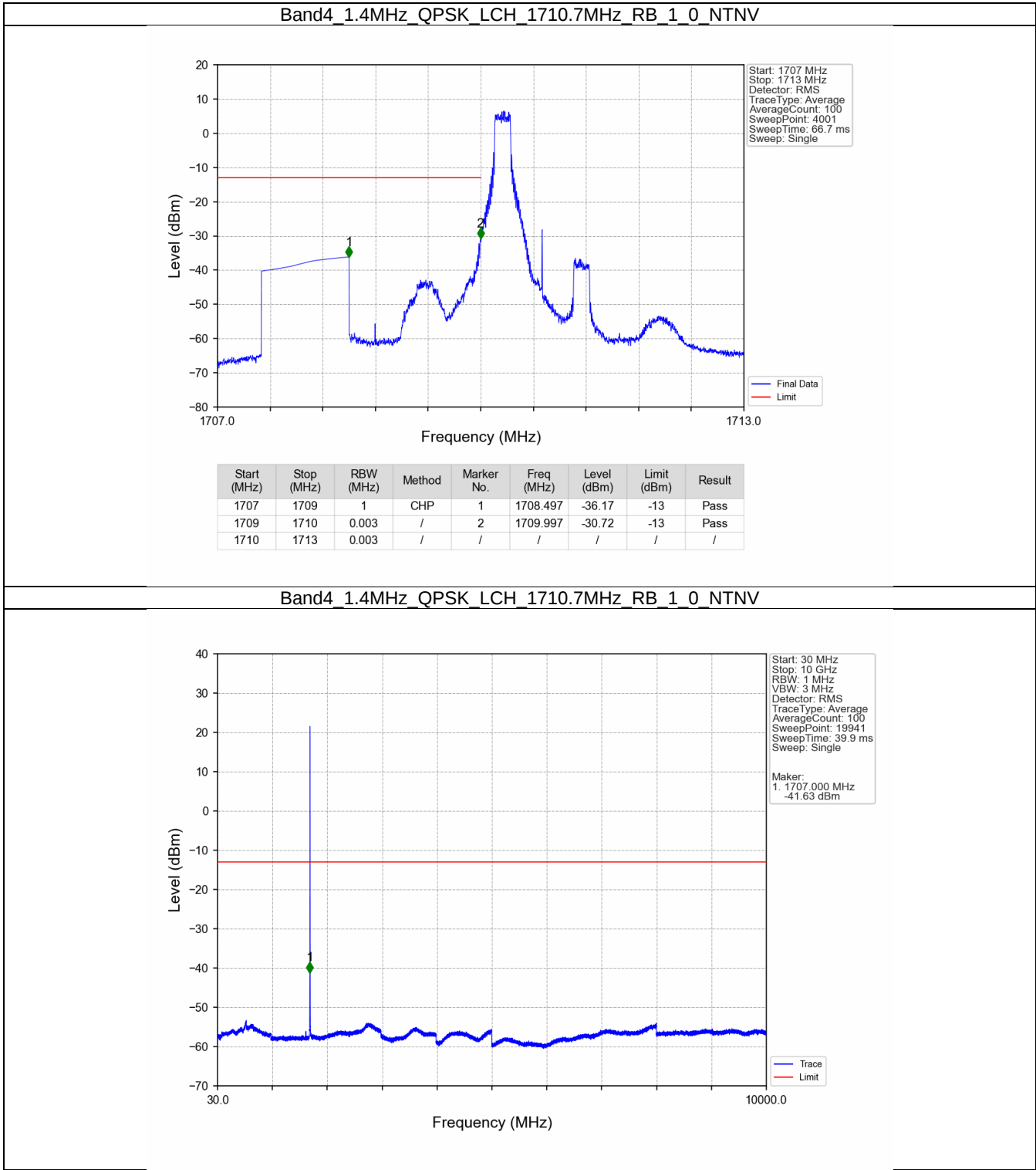
Band: 4 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.6 B4_20MHz

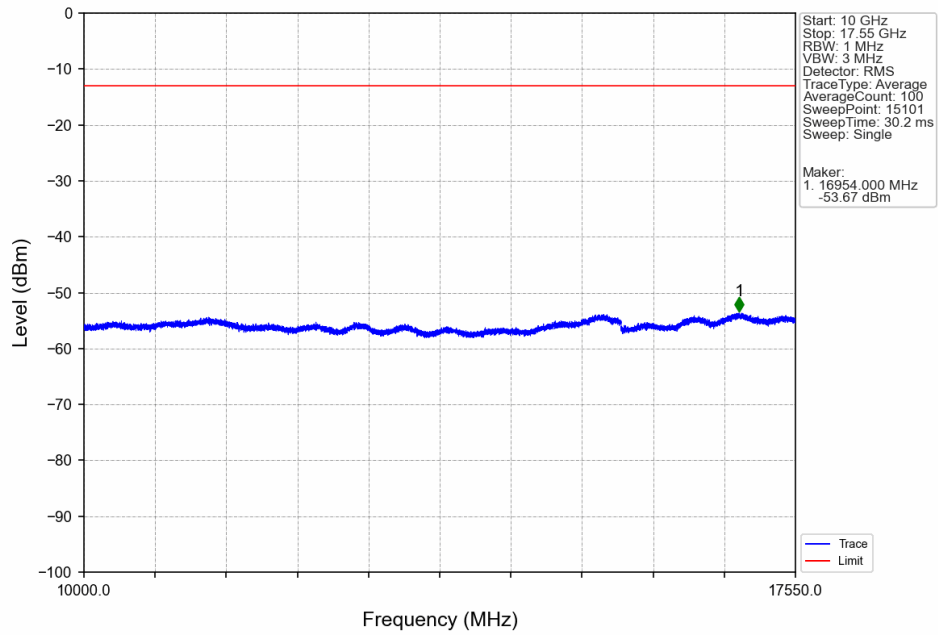
Band: 4 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

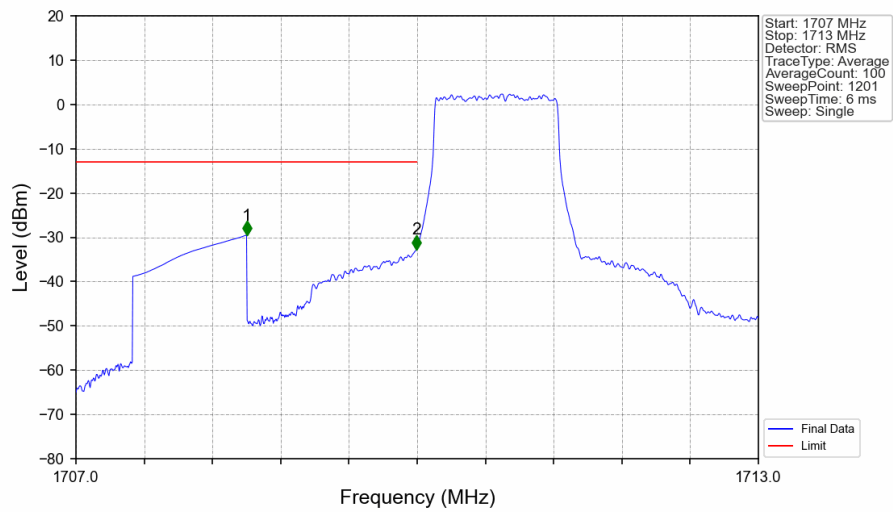
5.2.1 B4_1.4MHz



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV

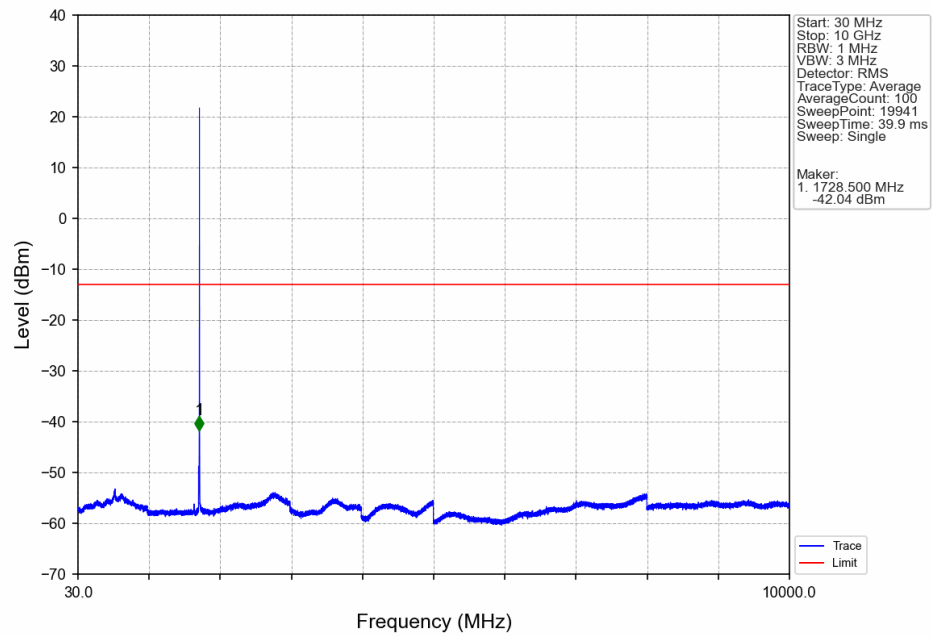


Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTNV

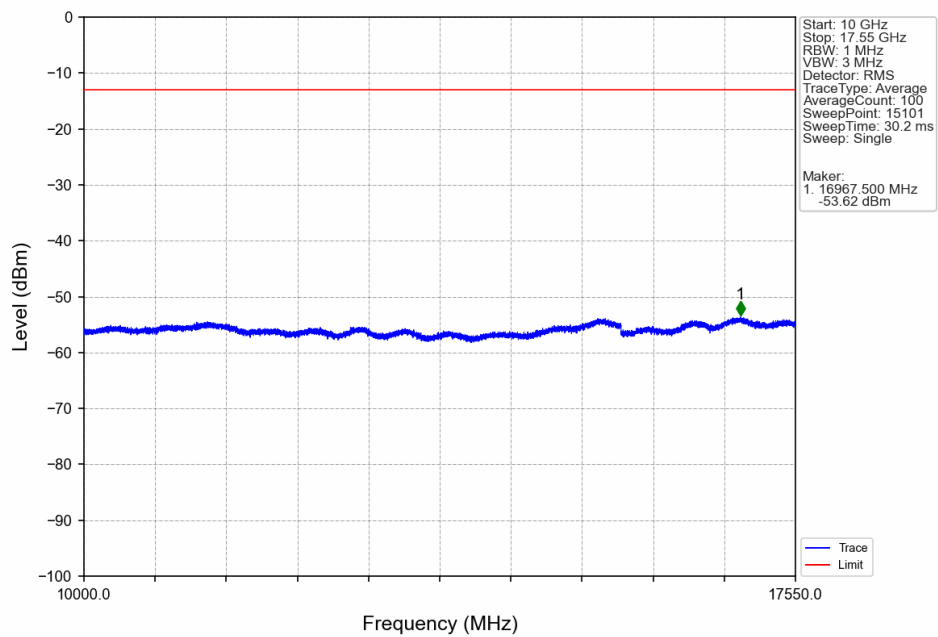


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-29.51	-13	Pass
1709	1710	0.013	CHP	2	1709.995	-32.68	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

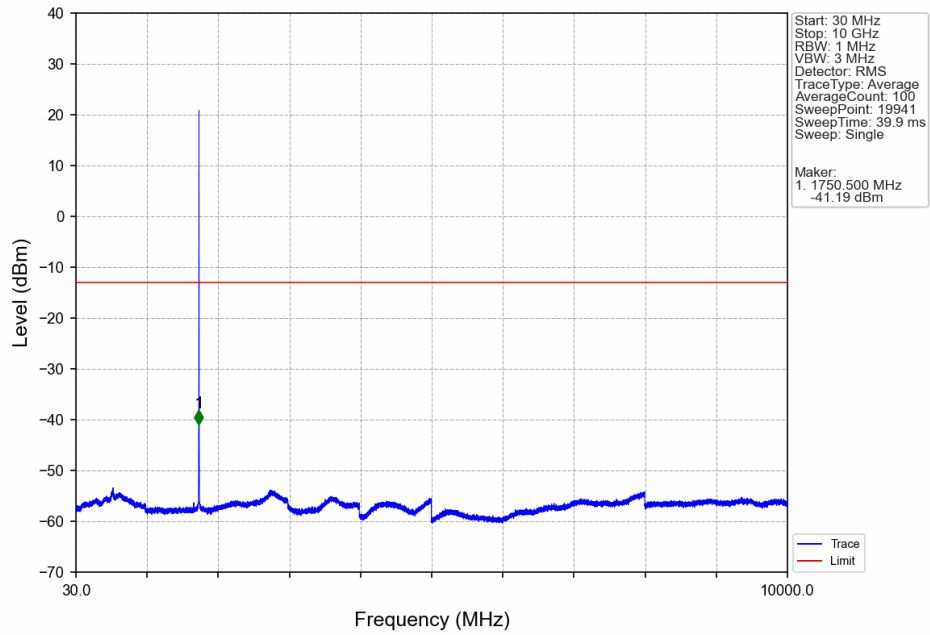
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



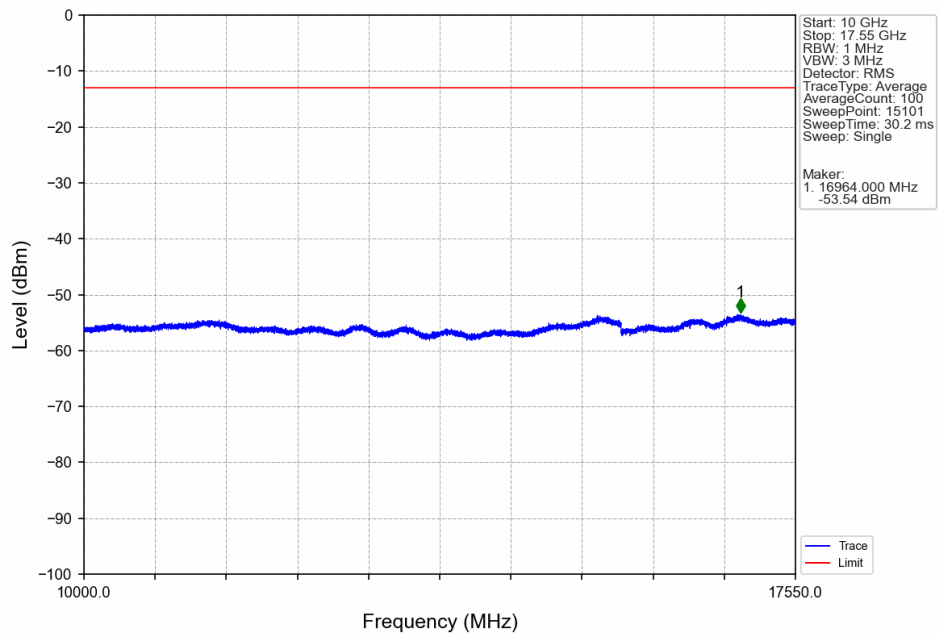
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



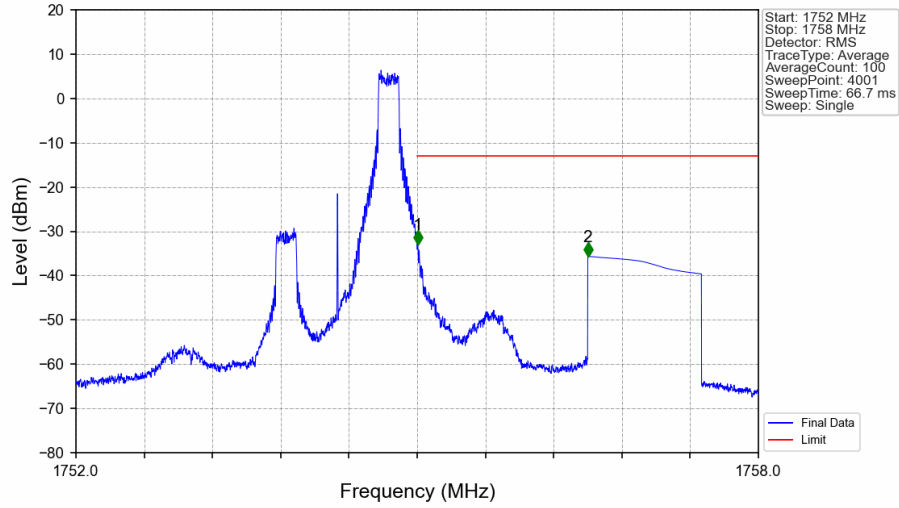
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV

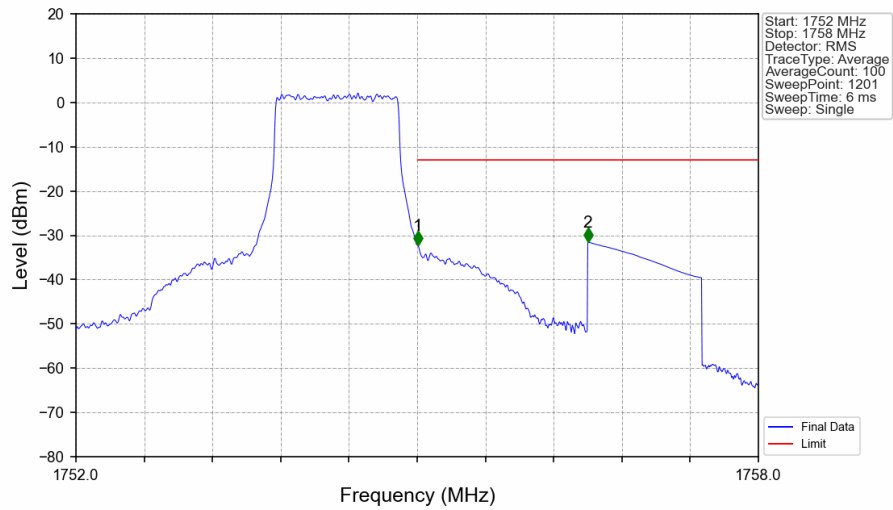


Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTNV



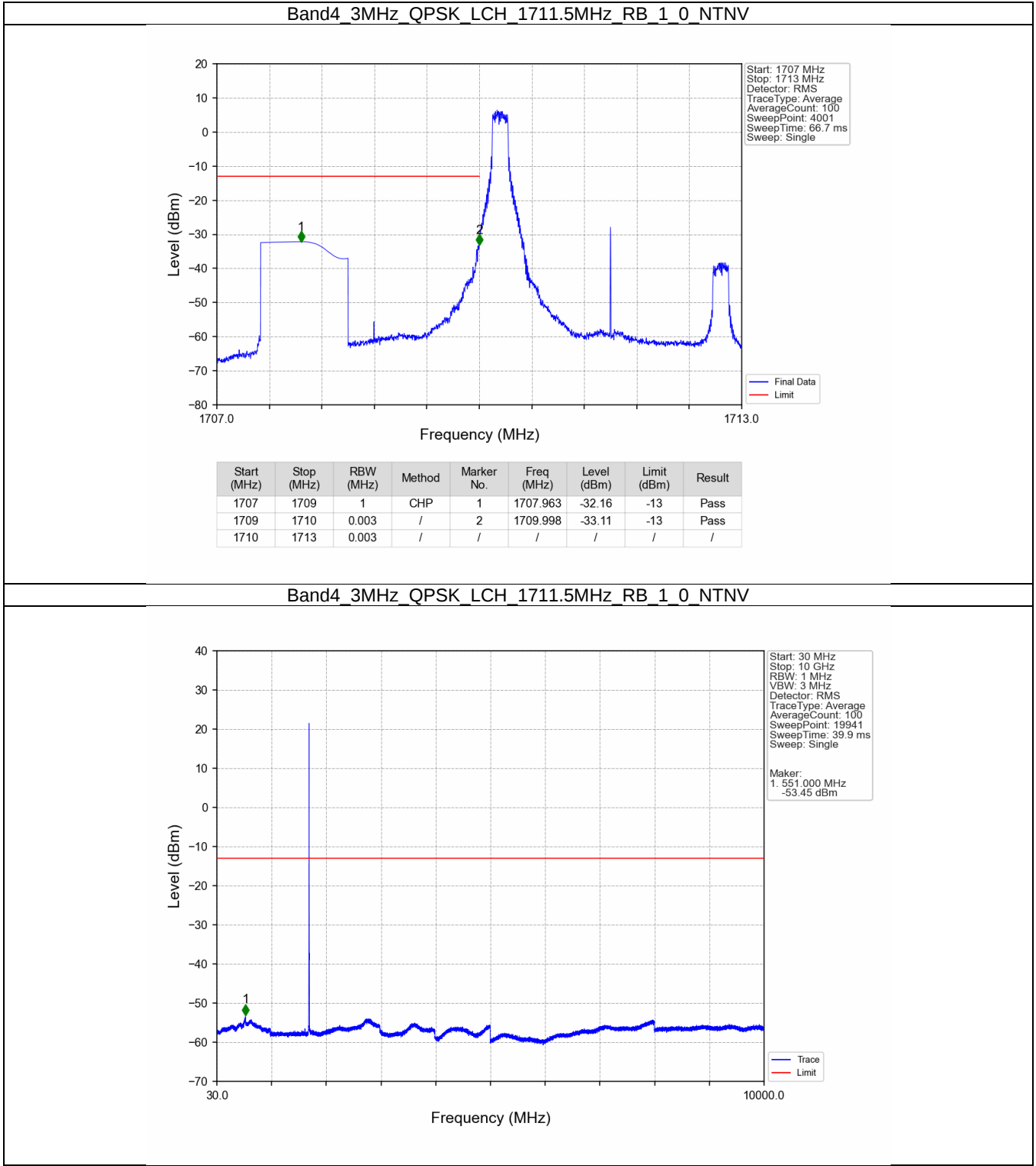
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-32.97	-13	Pass
1756	1758	1	CHP	2	1756.500	-35.67	-13	Pass

Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTNV

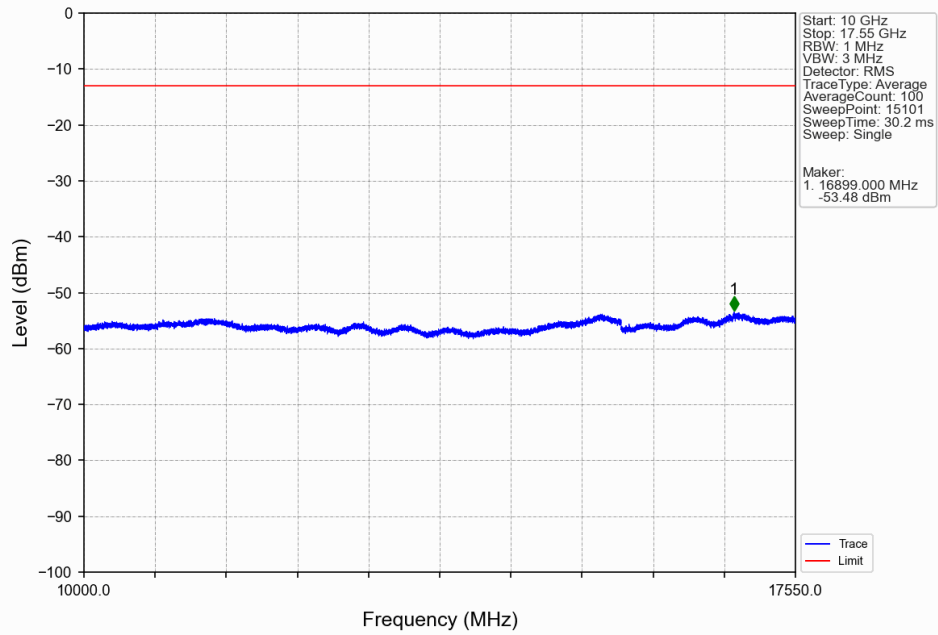


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.005	-32.27	-13	Pass
1756	1758	1	CHP	2	1756.500	-31.51	-13	Pass

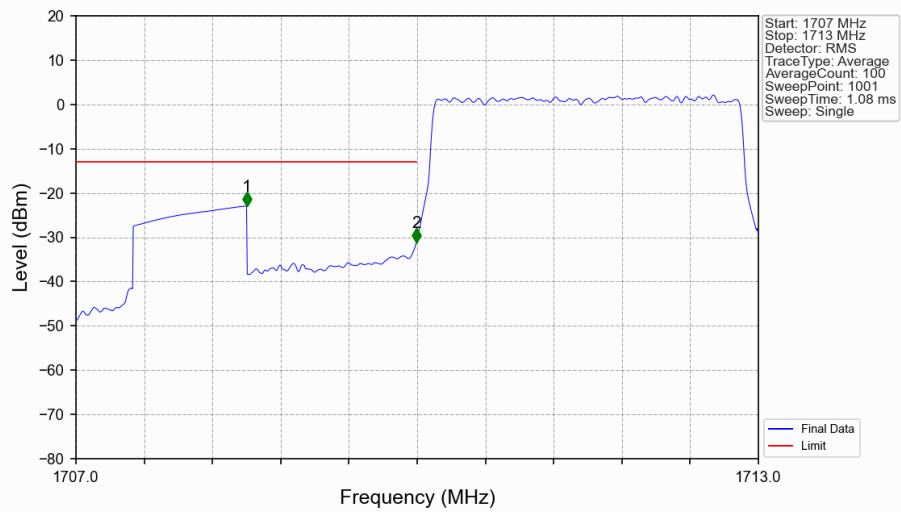
5.2.2 B4_3MHz



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

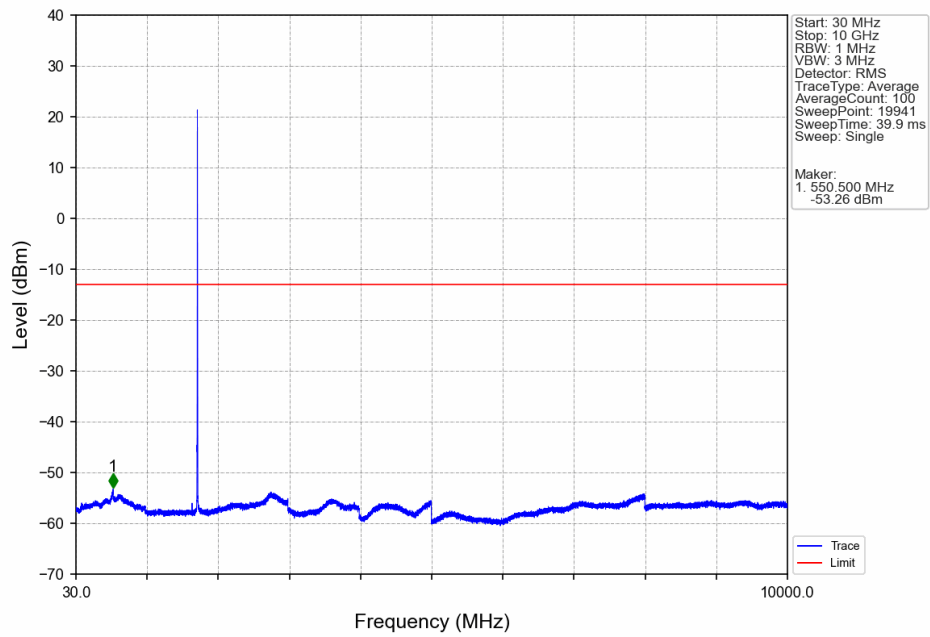


Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

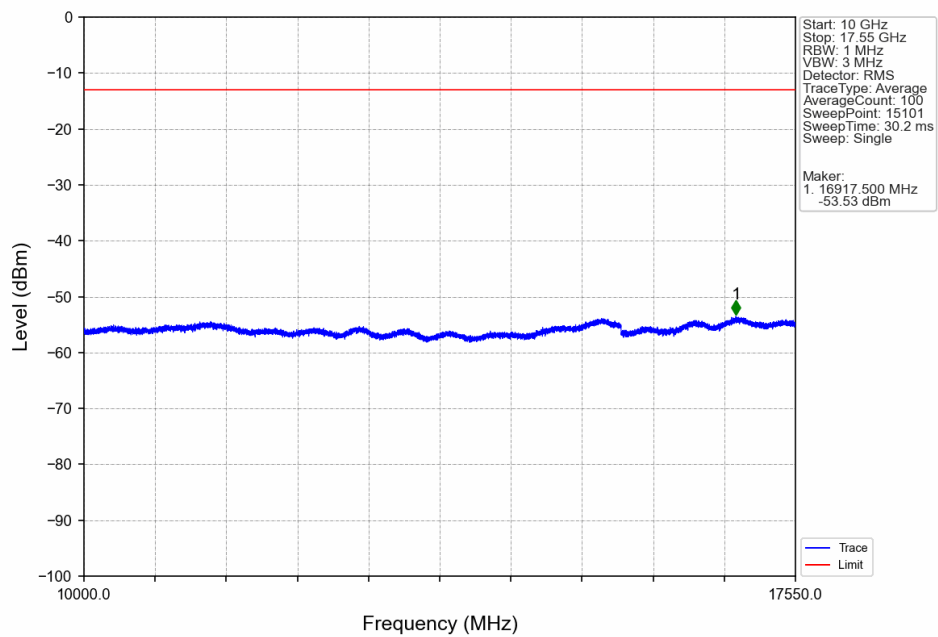


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-22.96	-13	Pass
1709	1710	0.031	CHP	2	1709.994	-31.06	-13	Pass
1710	1713	0.031	CHP	/	/	/	/	/

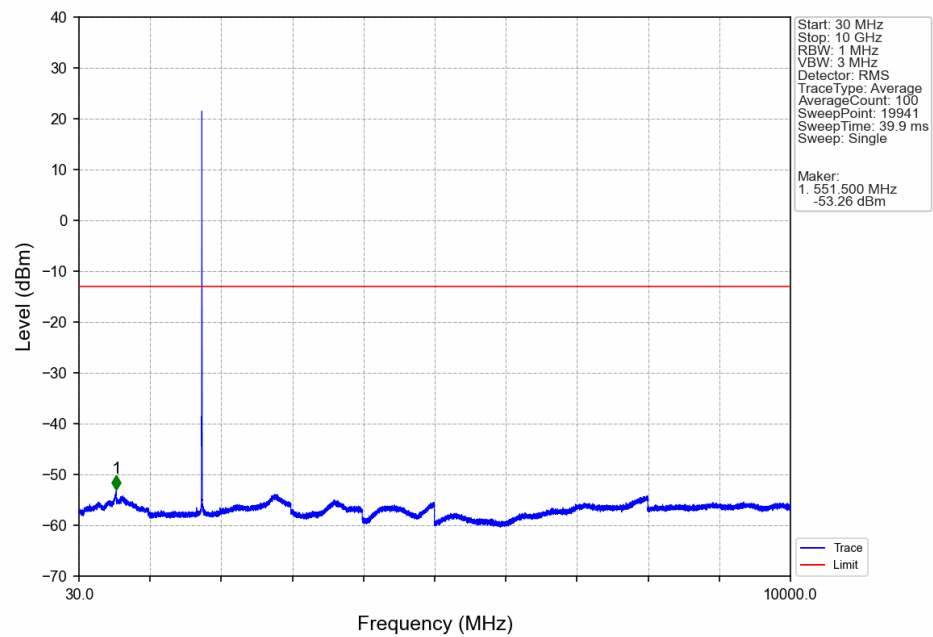
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



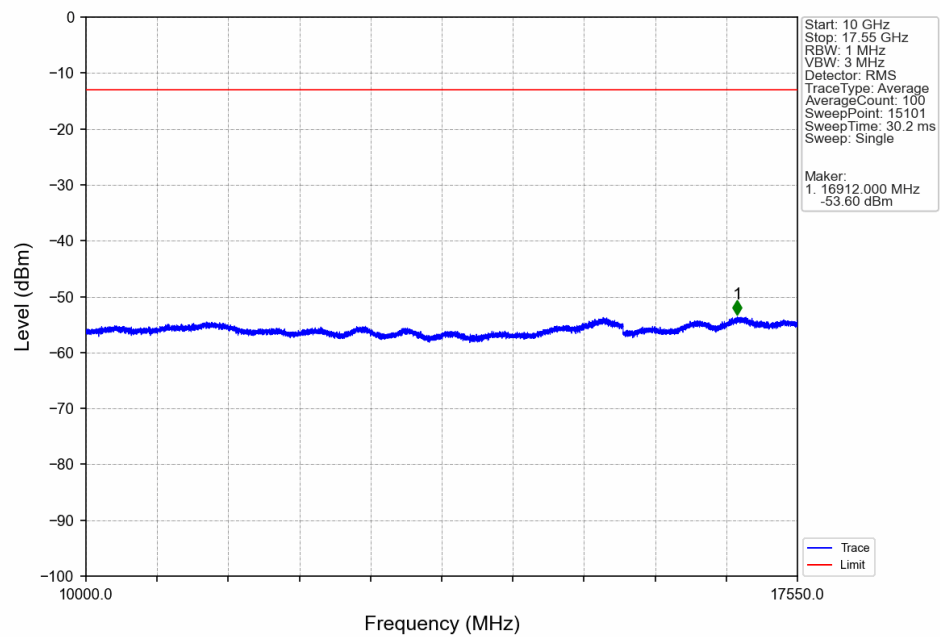
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



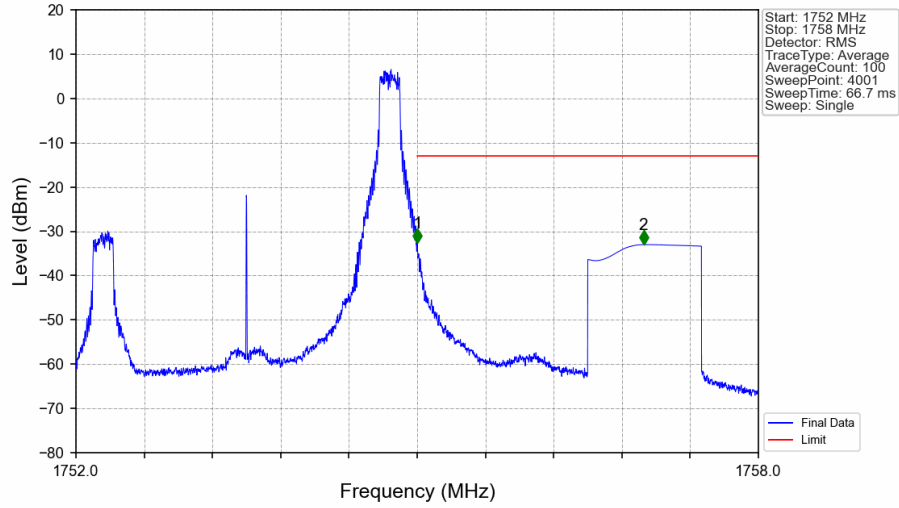
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

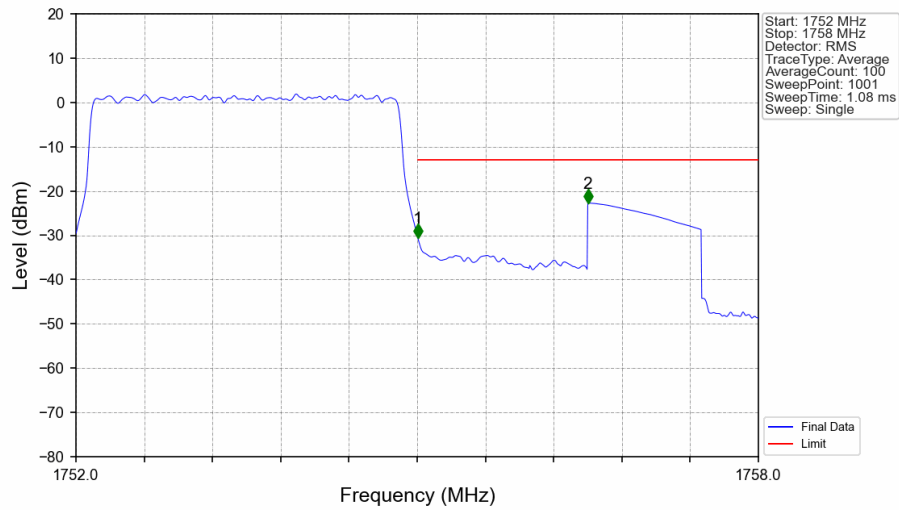


Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTNV



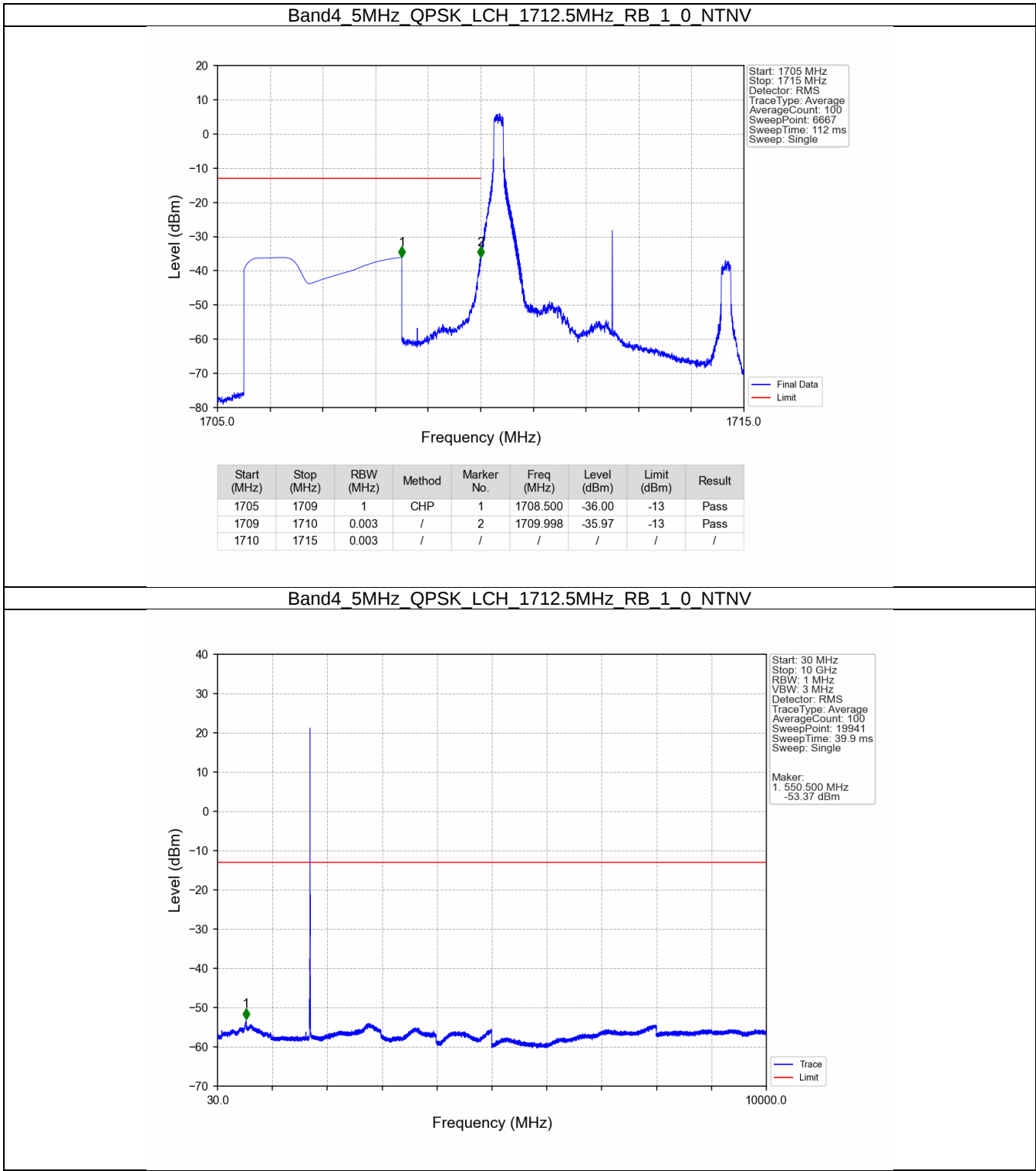
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-32.56	-13	Pass
1756	1758	1	CHP	2	1756.991	-33.01	-13	Pass

Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV

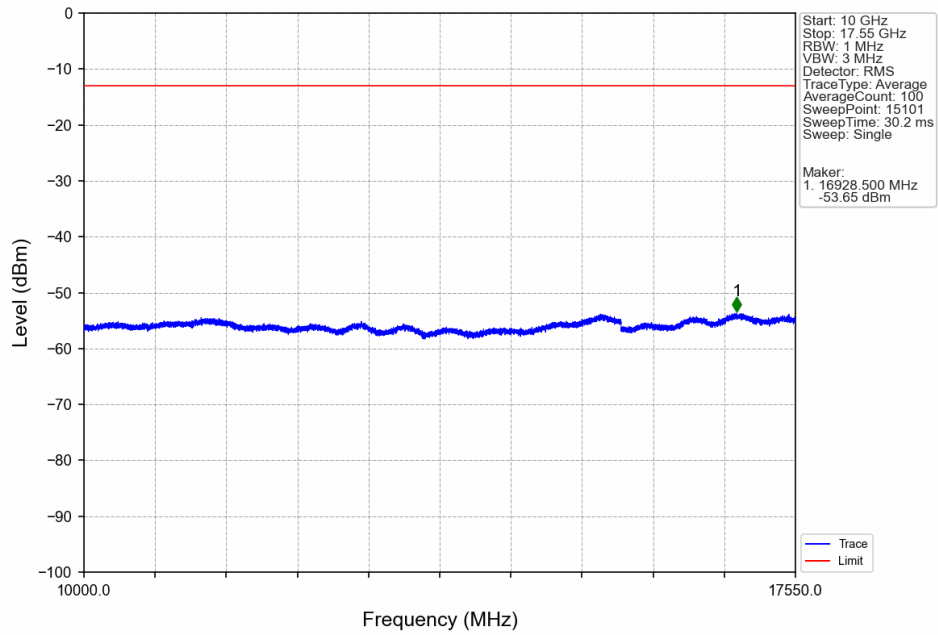


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.031	CHP	/	/	/	/	/
1755	1756	0.031	CHP	1	1755.006	-30.62	-13	Pass
1756	1758	1	CHP	2	1756.500	-22.70	-13	Pass

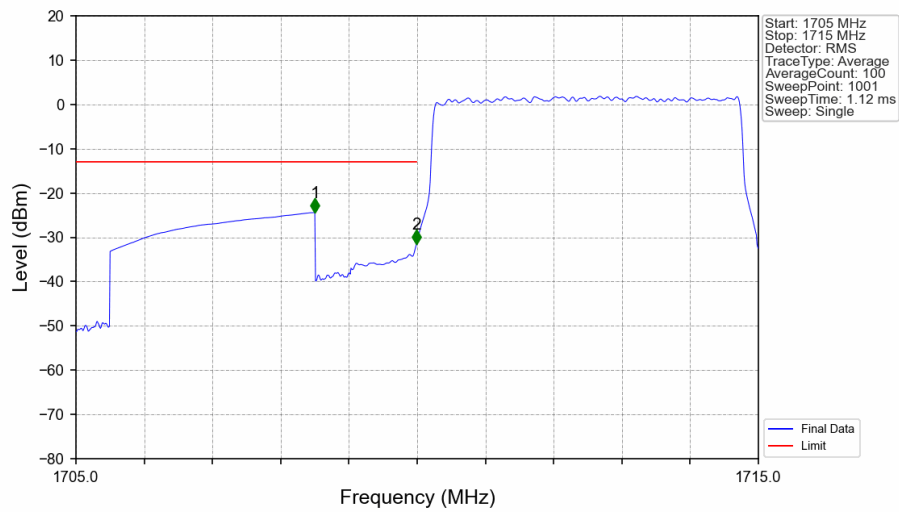
5.2.3 B4_5MHz



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV

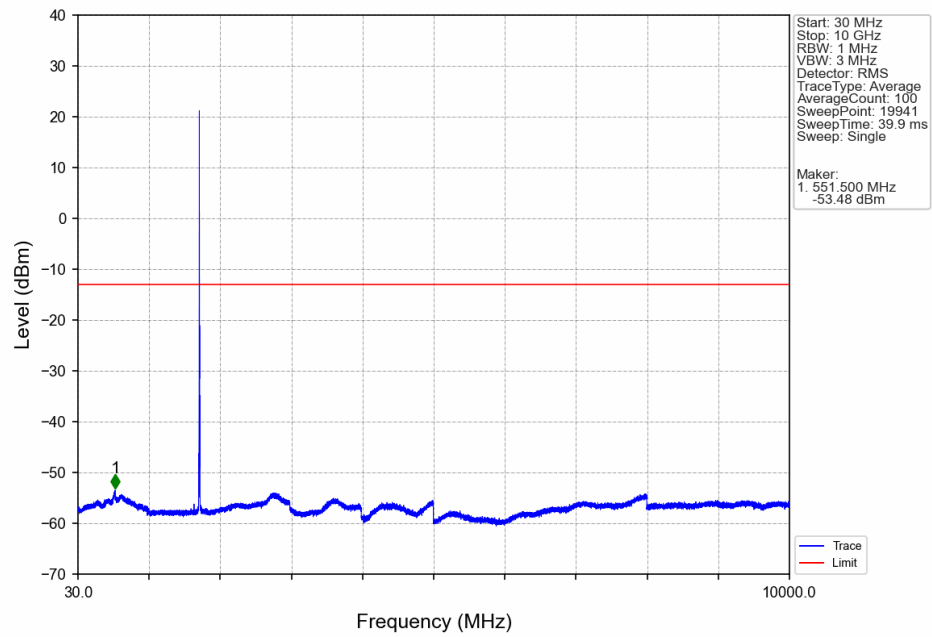


Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

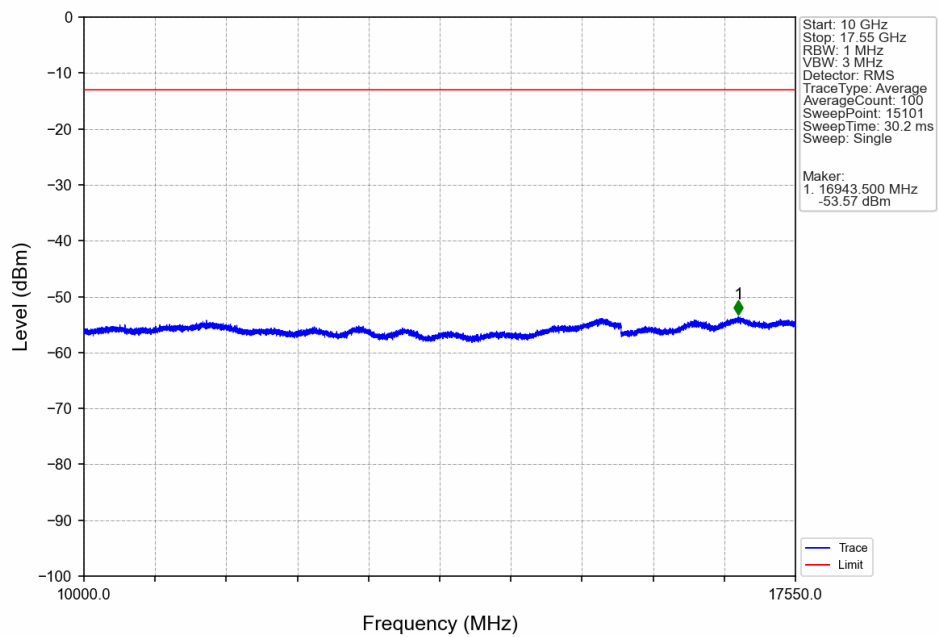


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-24.39	-13	Pass
1709	1710	0.05	CHP	2	1709.990	-31.51	-13	Pass
1710	1715	0.05	CHP	/	/	/	/	/

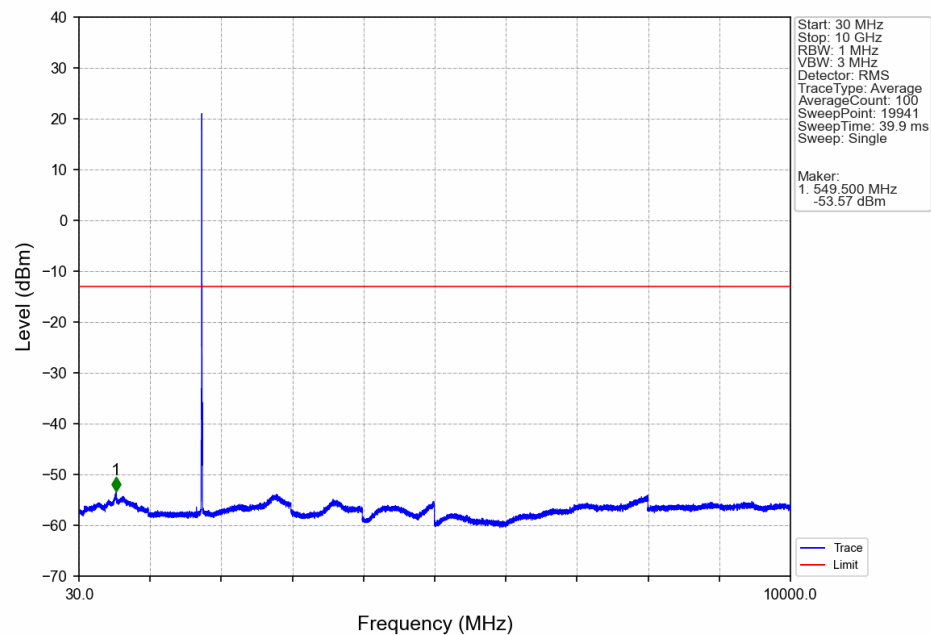
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



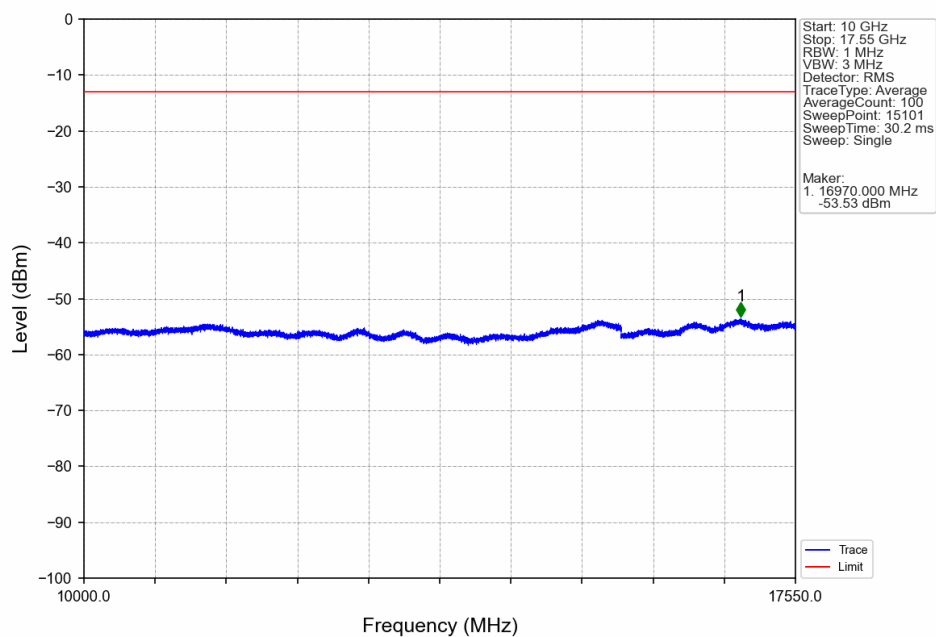
Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



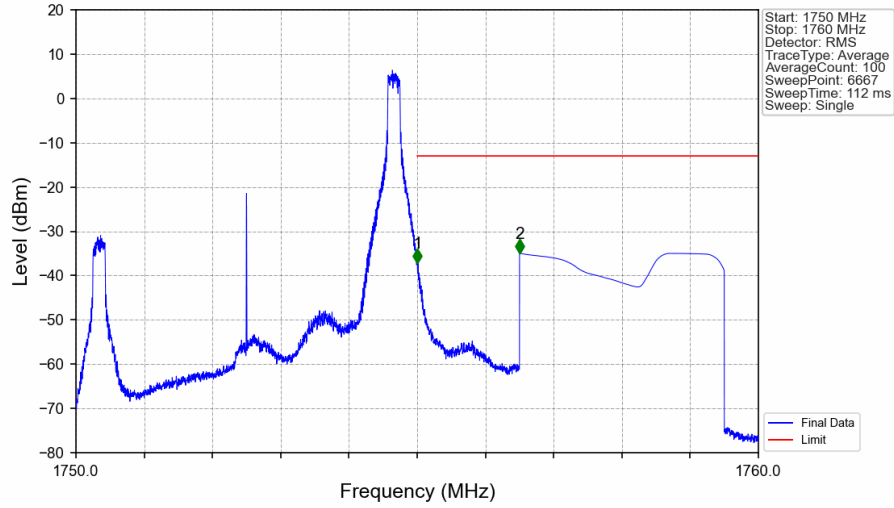
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

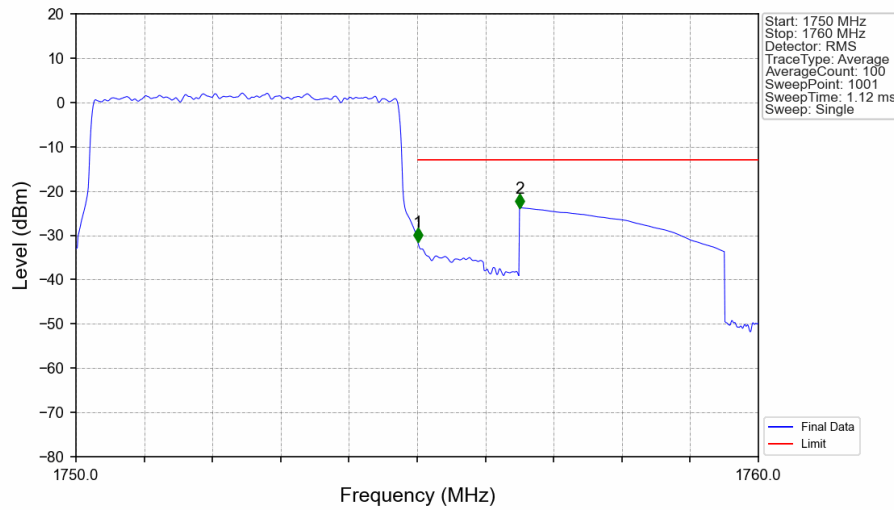


Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTN



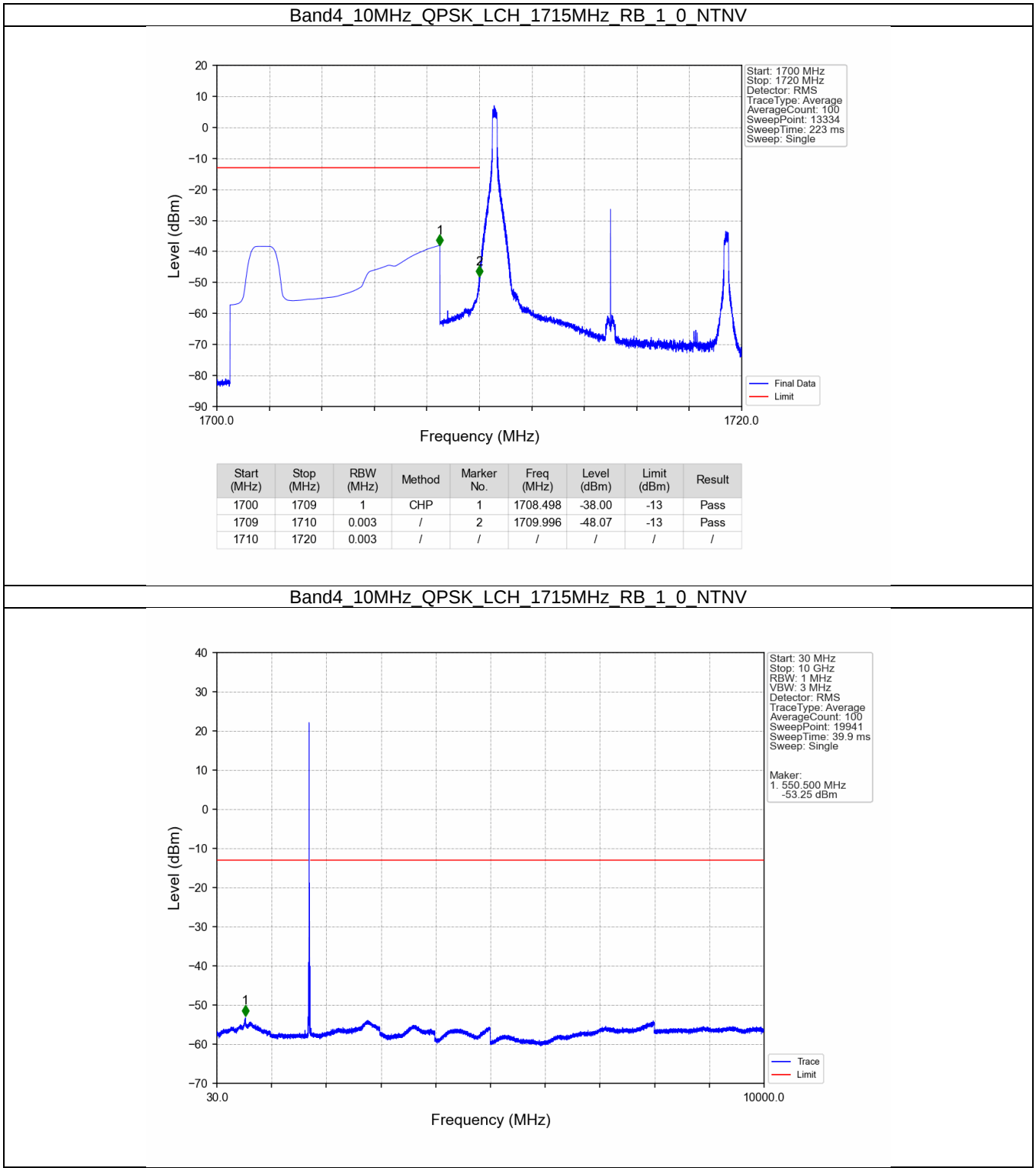
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-37.16	-13	Pass
1756	1760	1	CHP	2	1756.500	-34.96	-13	Pass

Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTN

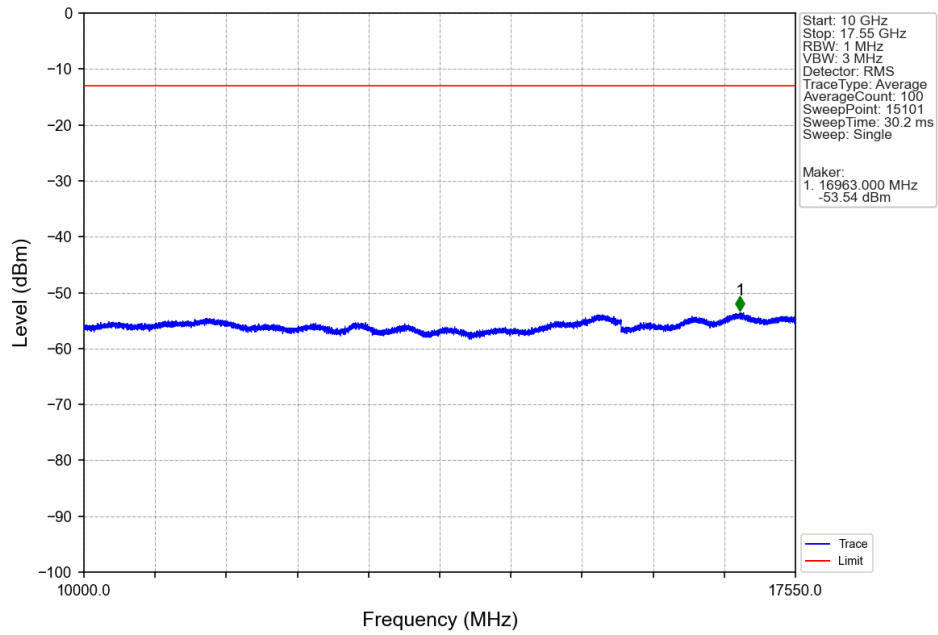


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.05	CHP	/	/	/	/	/
1755	1756	0.05	CHP	1	1755.010	-31.54	-13	Pass
1756	1760	1	CHP	2	1756.500	-23.76	-13	Pass

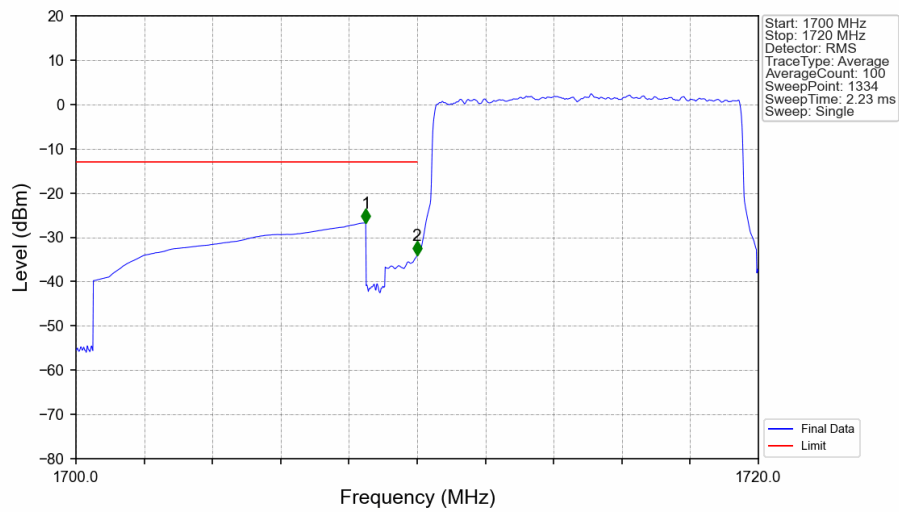
5.2.4 B4_10MHz



Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV

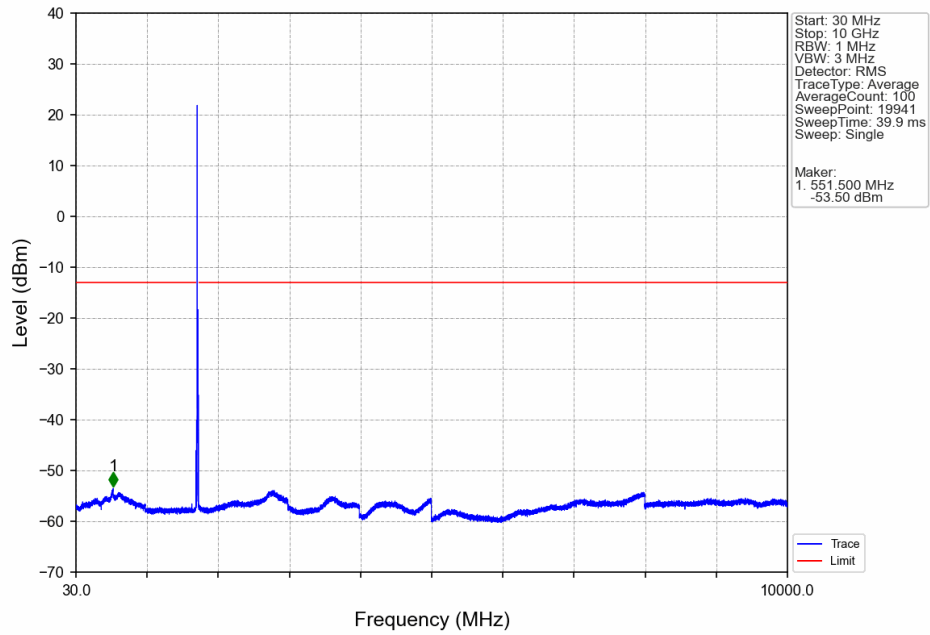


Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

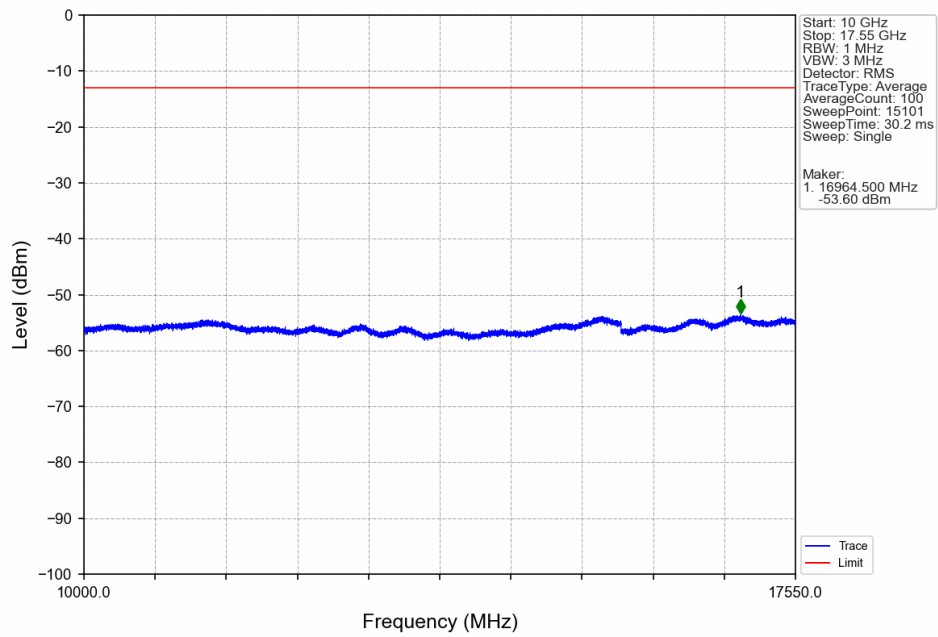


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.492	-26.73	-13	Pass
1709	1710	0.098	CHP	2	1709.992	-34.12	-13	Pass
1710	1720	0.098	CHP	/	/	/	/	/

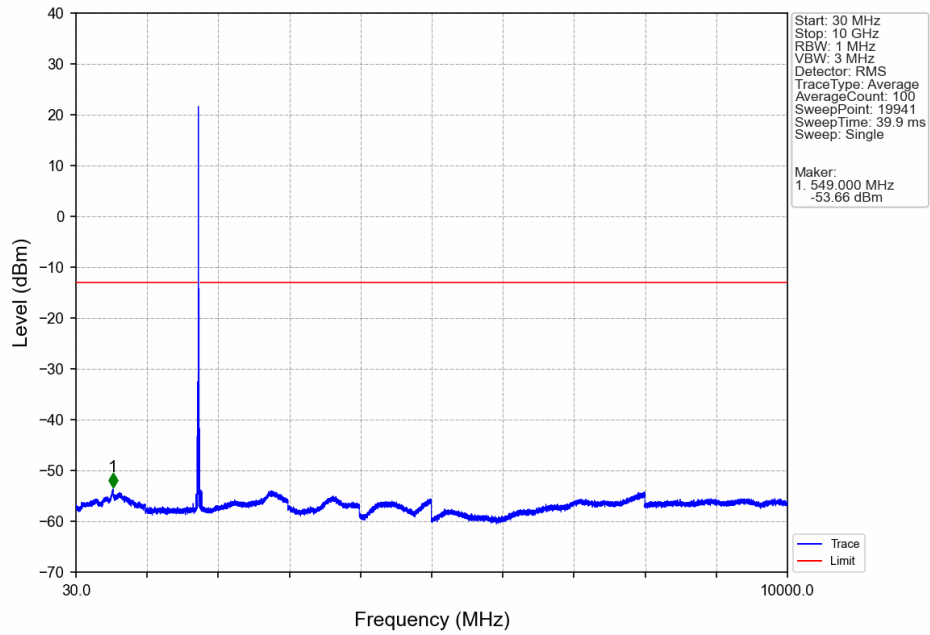
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



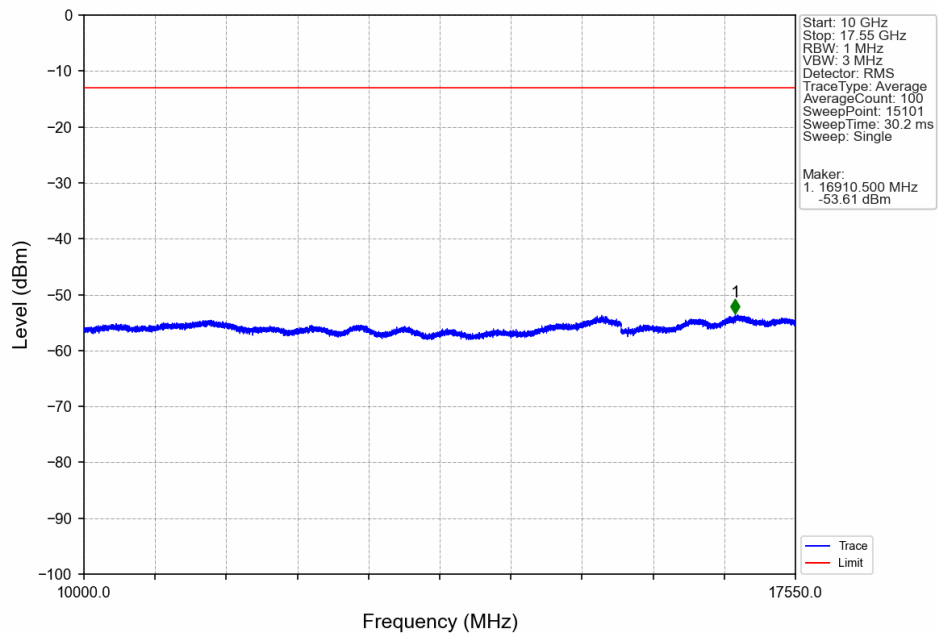
Band4 10MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



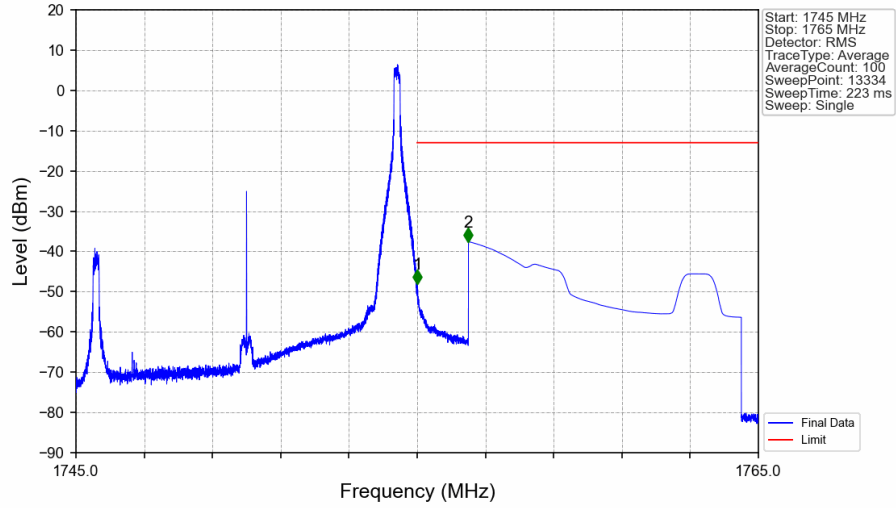
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV

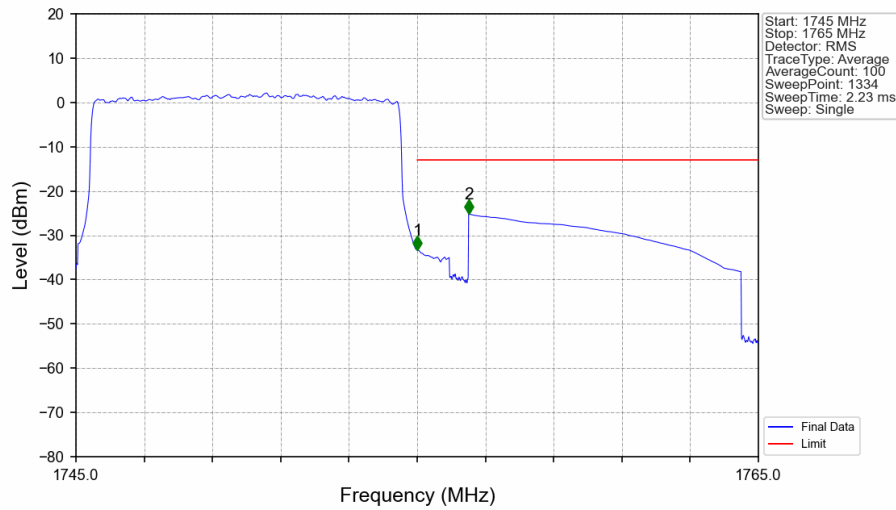


Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



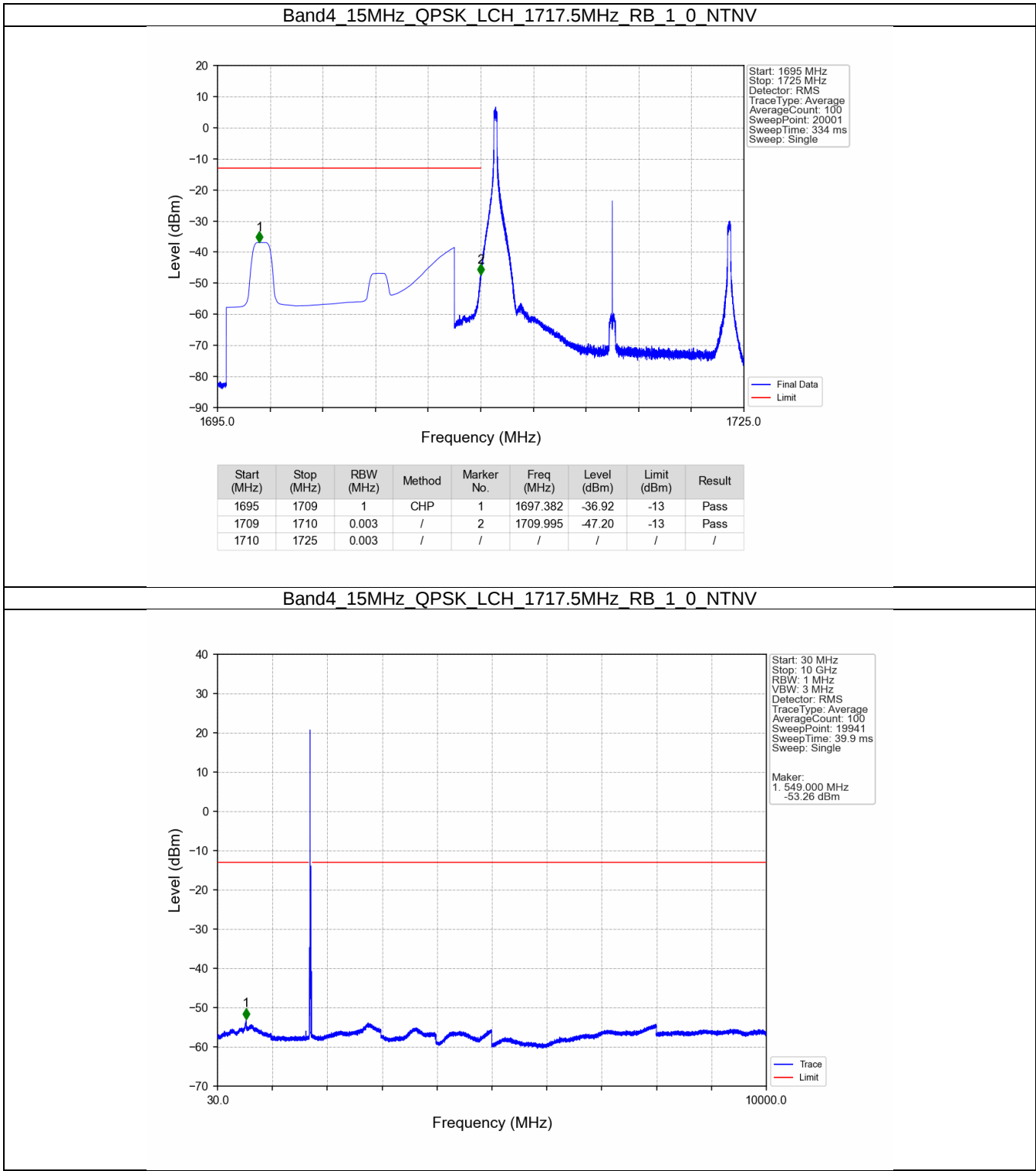
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-48.00	-13	Pass
1756	1765	1	CHP	2	1756.501	-37.57	-13	Pass

Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

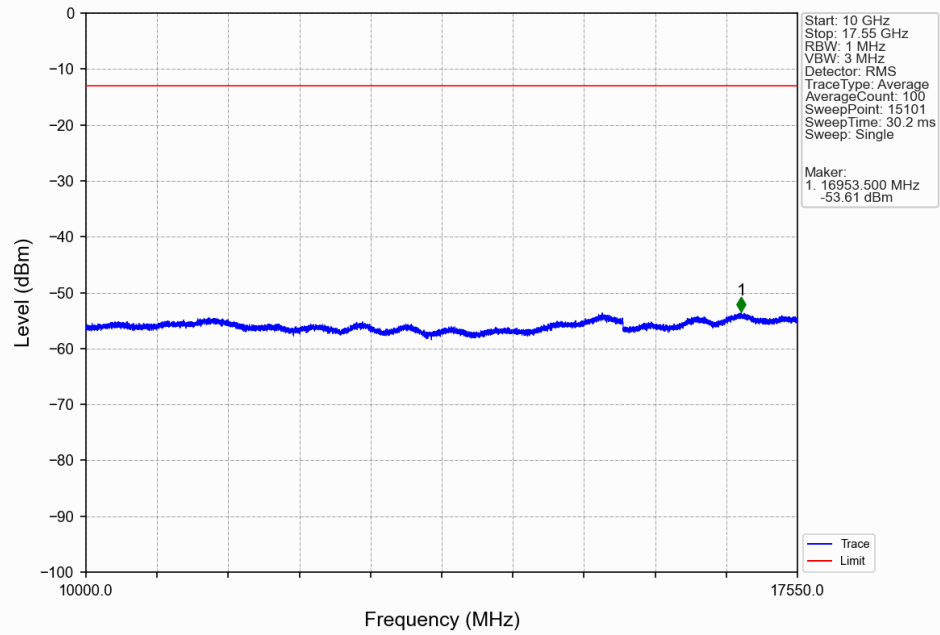


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.098	CHP	/	/	/	/	/
1755	1756	0.098	CHP	1	1755.008	-33.33	-13	Pass
1756	1765	1	CHP	2	1756.508	-25.20	-13	Pass

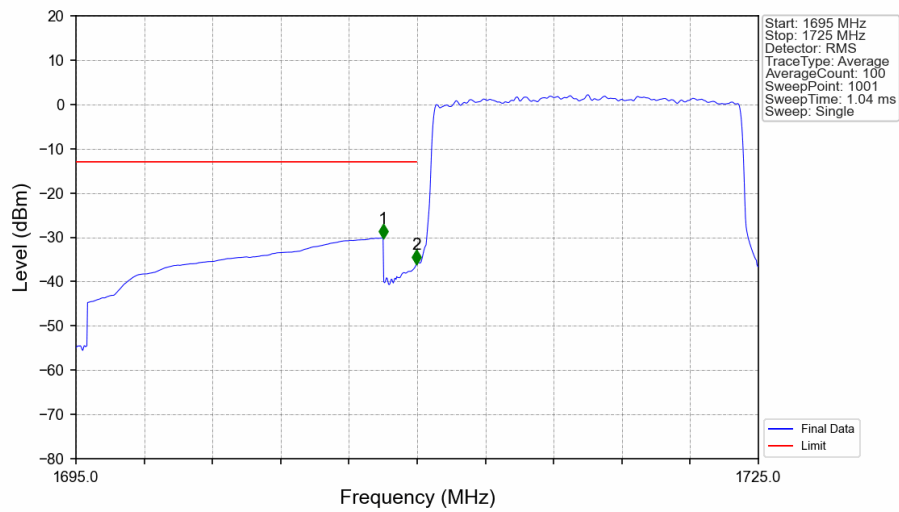
5.2.5 B4_15MHz



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV

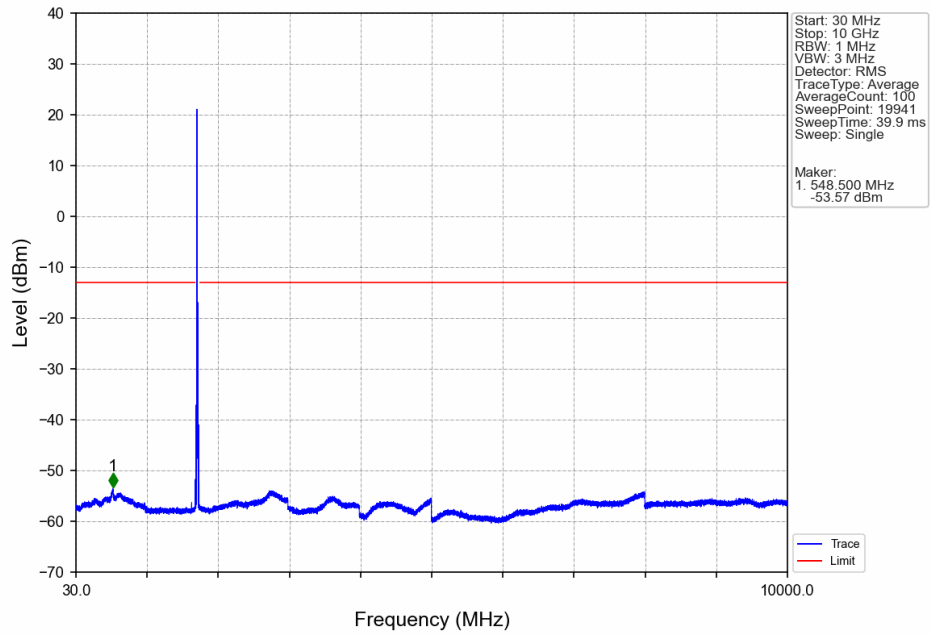


Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

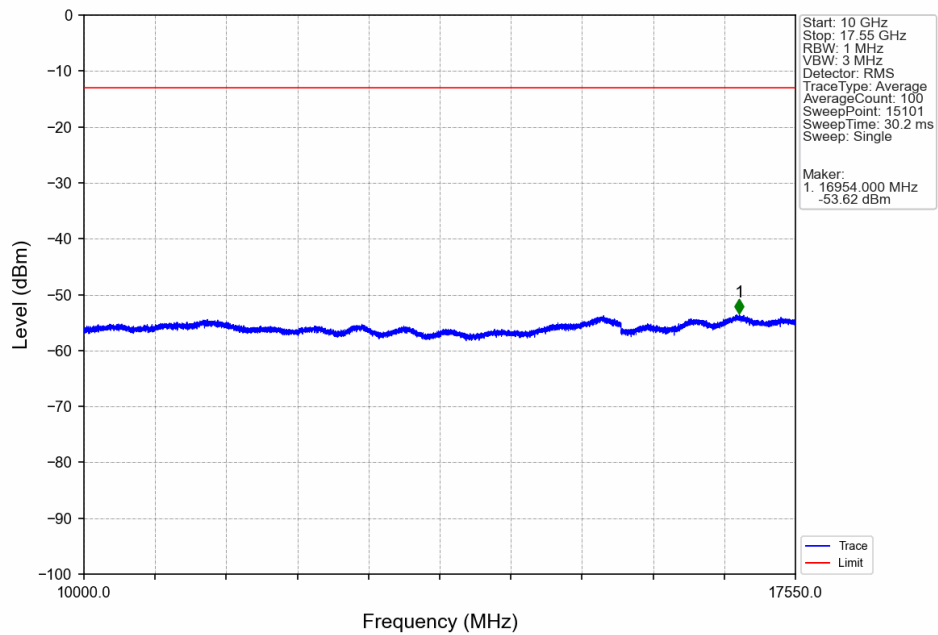


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.500	-30.15	-13	Pass
1709	1710	0.146	CHP	2	1709.970	-36.09	-13	Pass
1710	1725	0.146	CHP	/	/	/	/	/

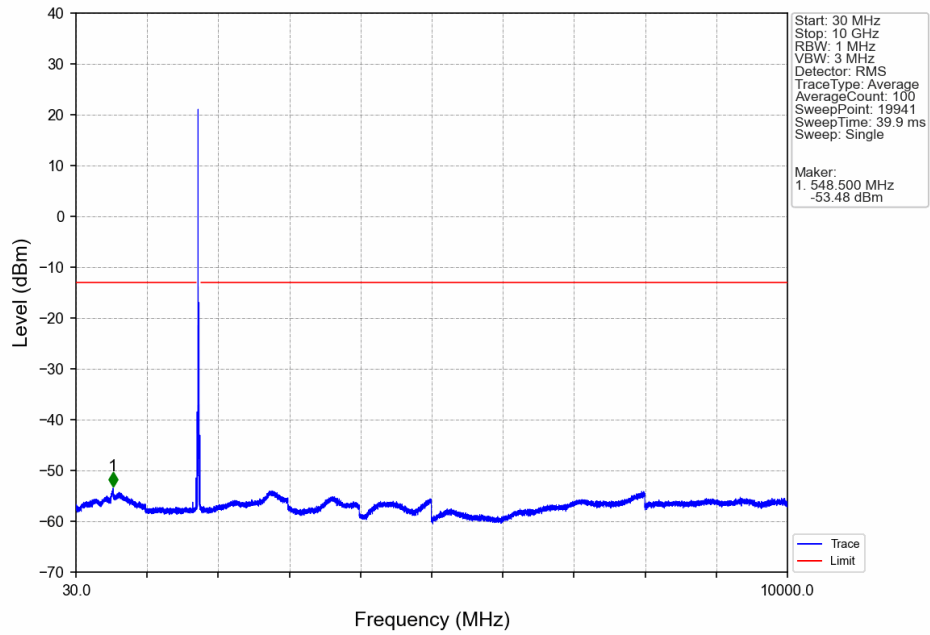
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



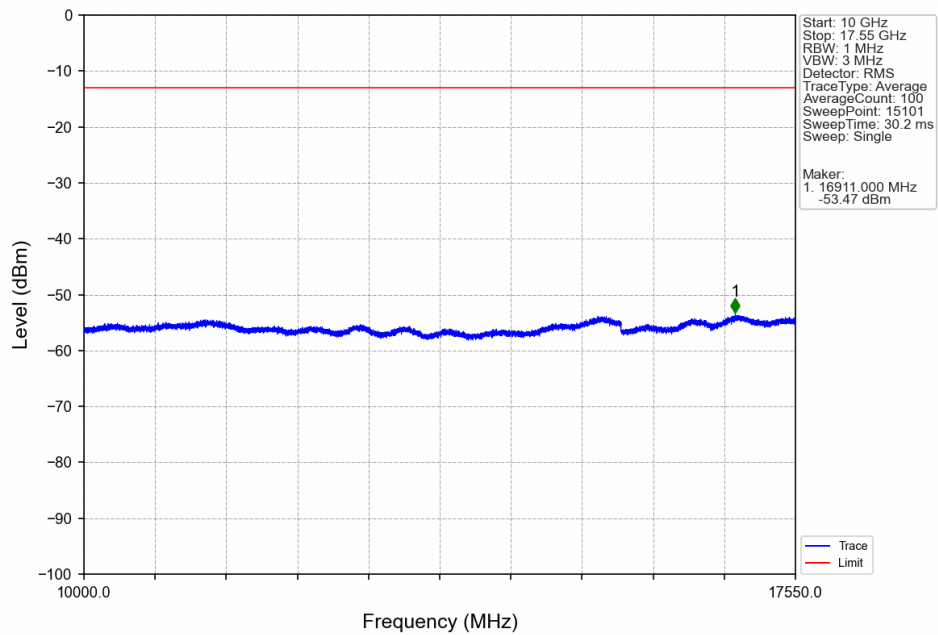
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



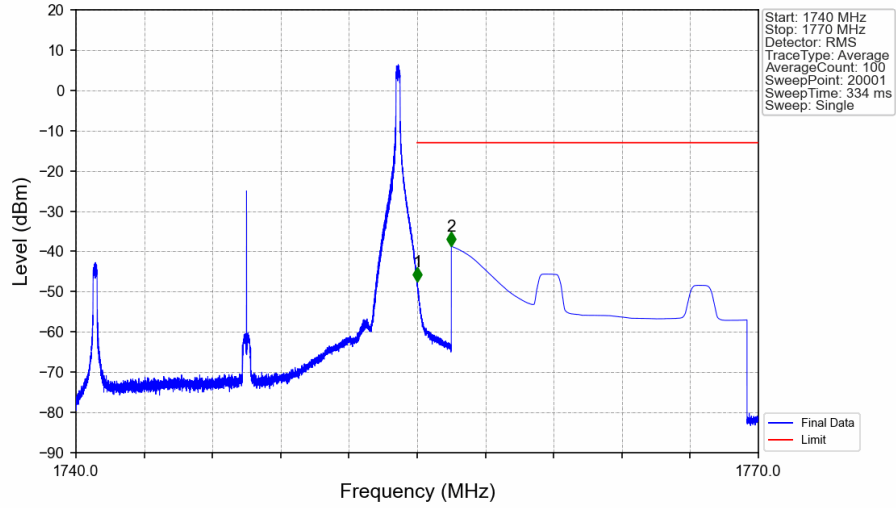
Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV



Band4 15MHz QPSK HCH 1747.5MHz RB 1 0 NTV

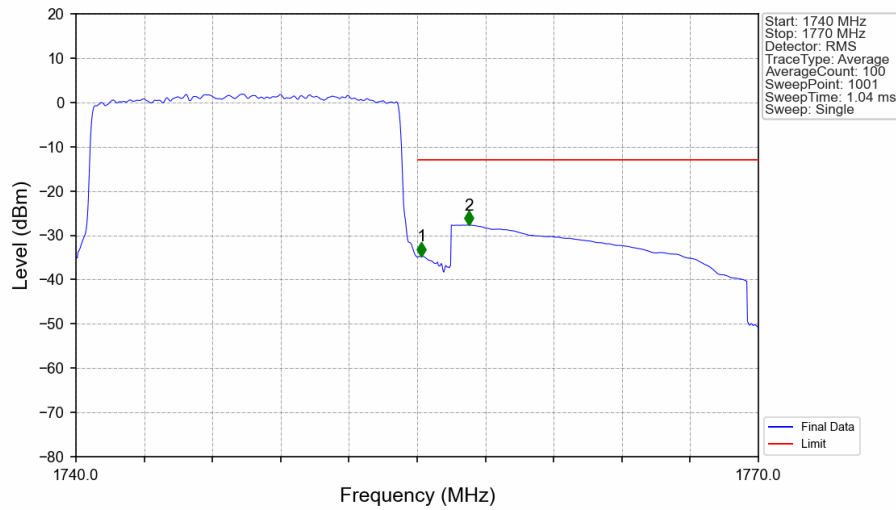


Band4 15MHz QPSK HCH 1747.5MHz RB 1 74 NTNV



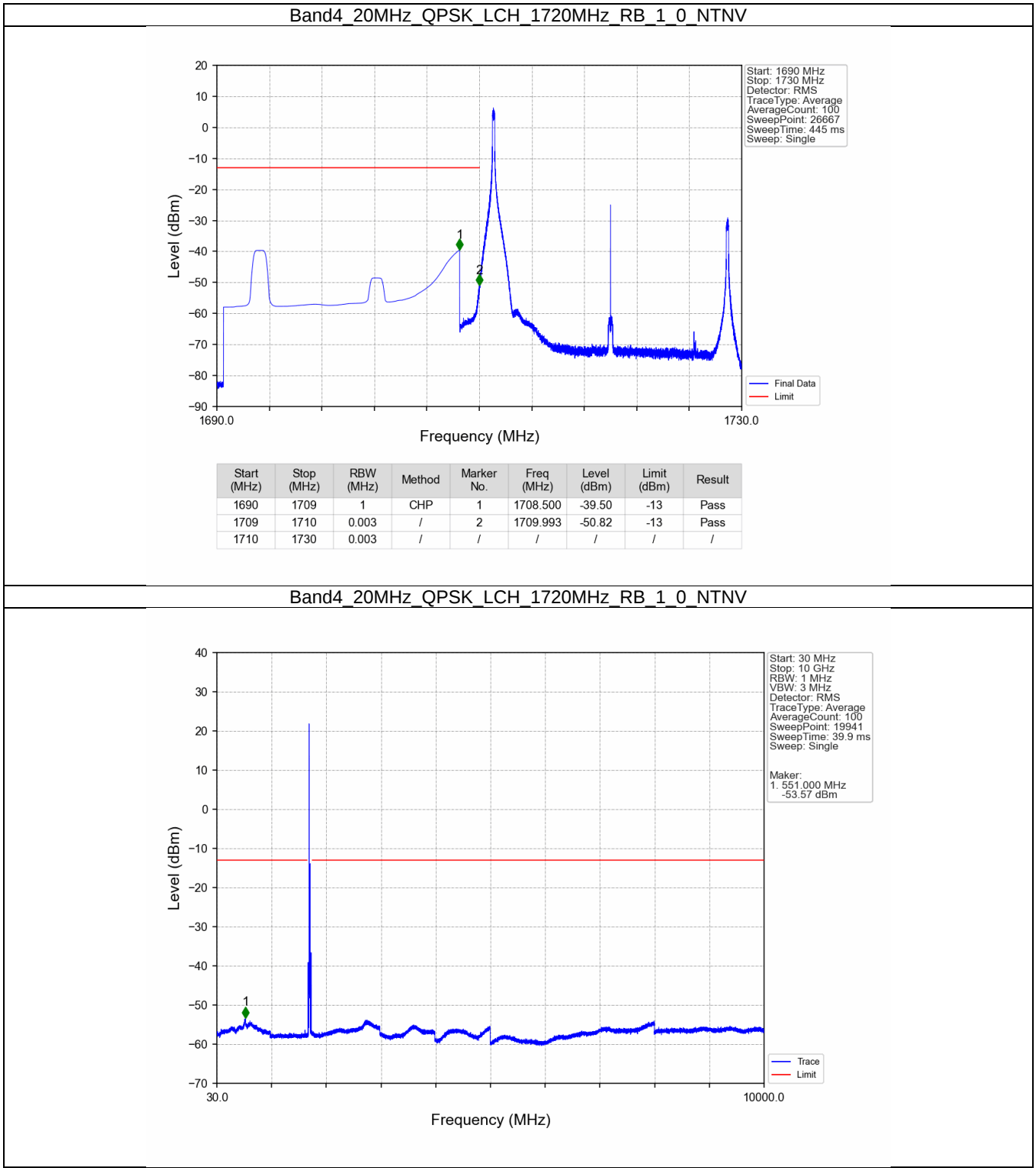
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-47.45	-13	Pass
1756	1770	1	CHP	2	1756.500	-38.72	-13	Pass

Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTNV

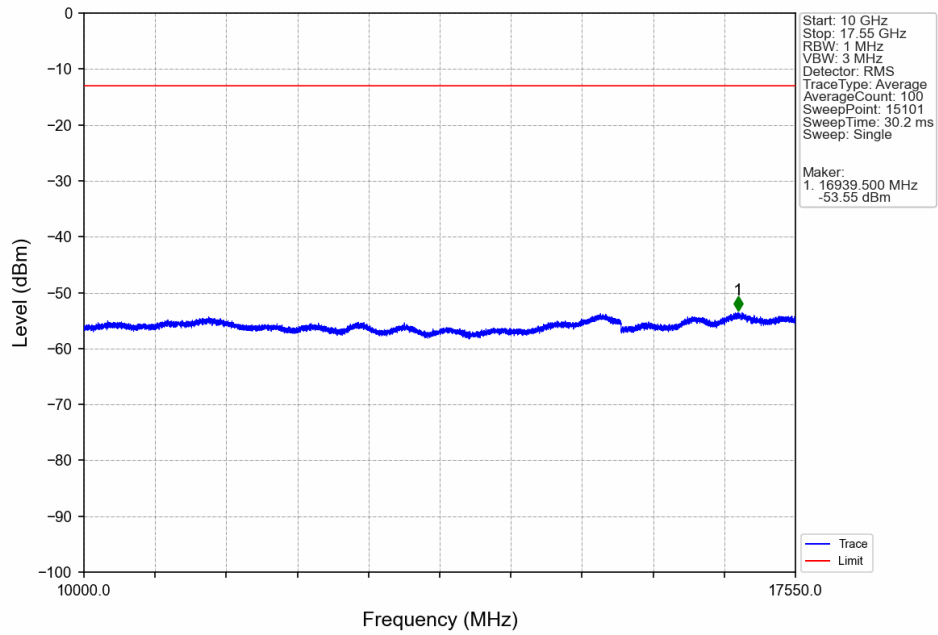


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.146	CHP	/	/	/	/	/
1755	1756	0.146	CHP	1	1755.180	-34.68	-13	Pass
1756	1770	1	CHP	2	1757.280	-27.65	-13	Pass

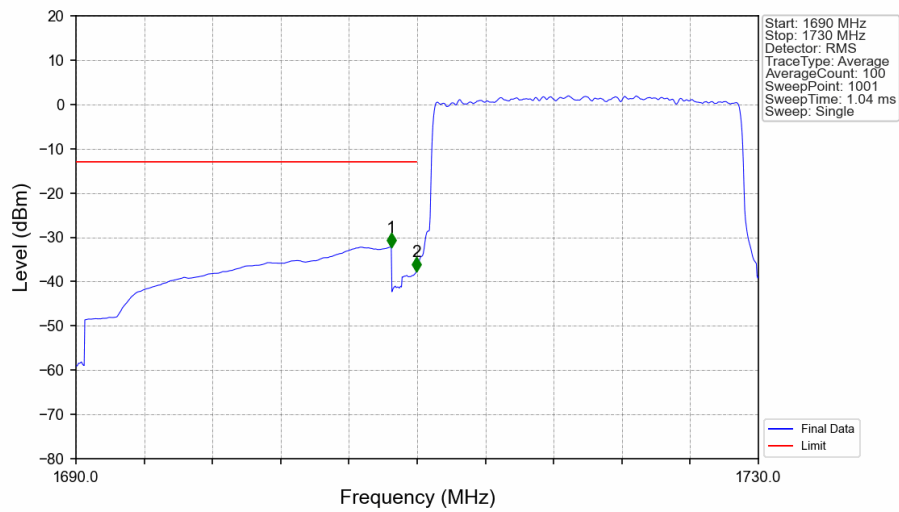
5.2.6 B4_20MHz



Band4 20MHz QPSK LCH 1720MHz RB 1 0 NTNV

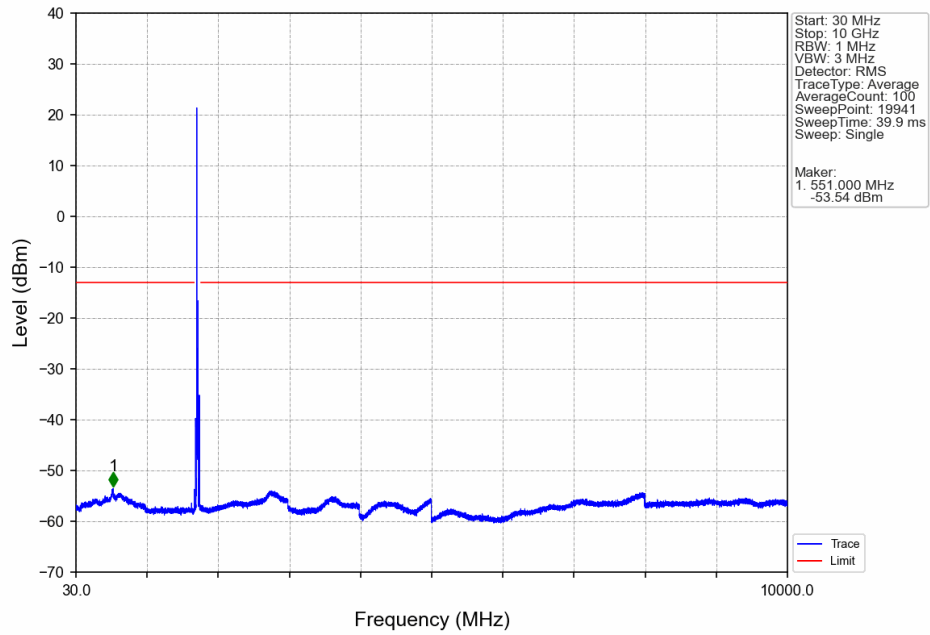


Band4 20MHz QPSK LCH 1720MHz RB 100 0 NTNV

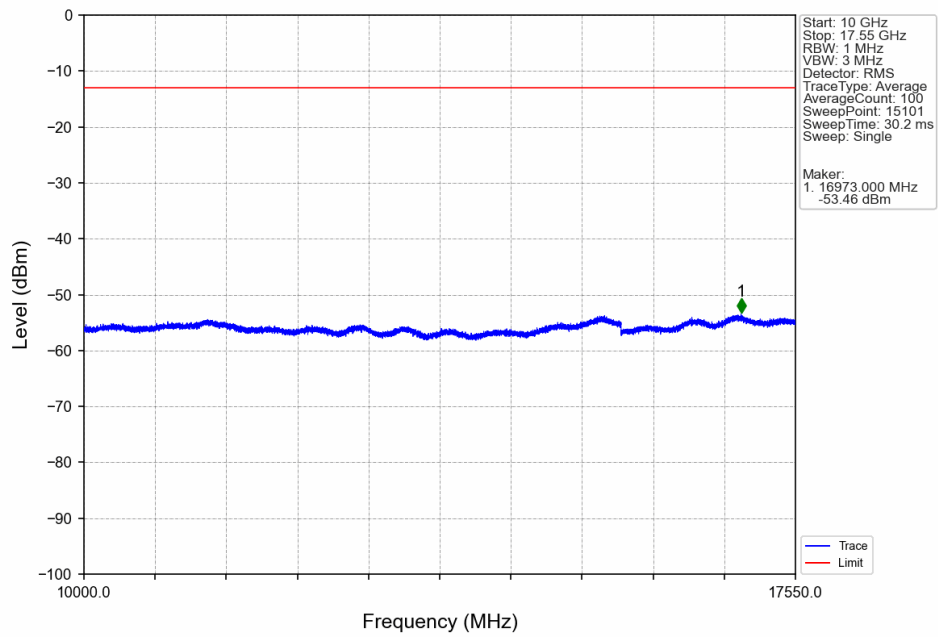


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-32.14	-13	Pass
1709	1710	0.194	CHP	2	1709.960	-37.65	-13	Pass
1710	1730	0.194	CHP	/	/	/	/	/

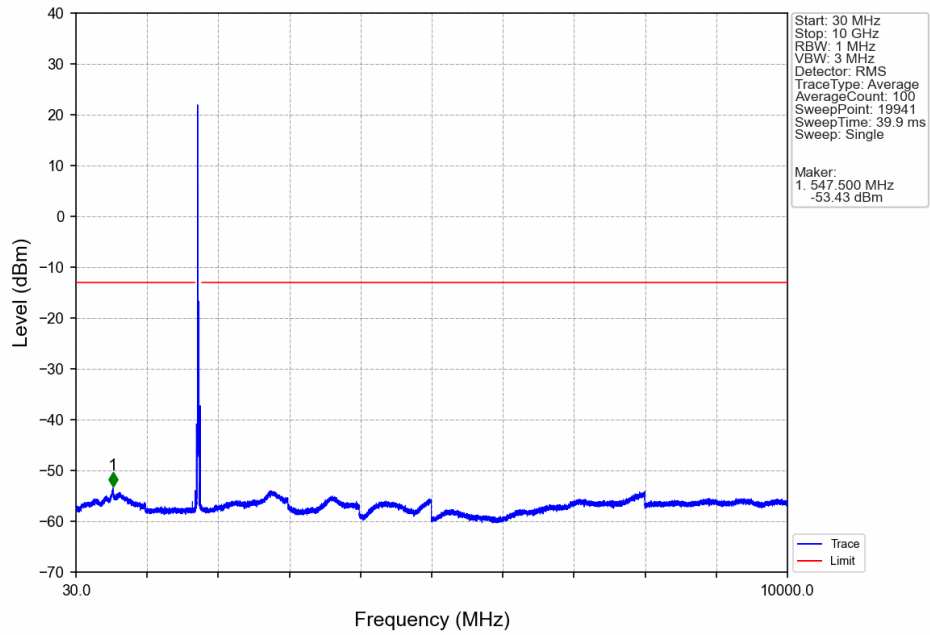
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



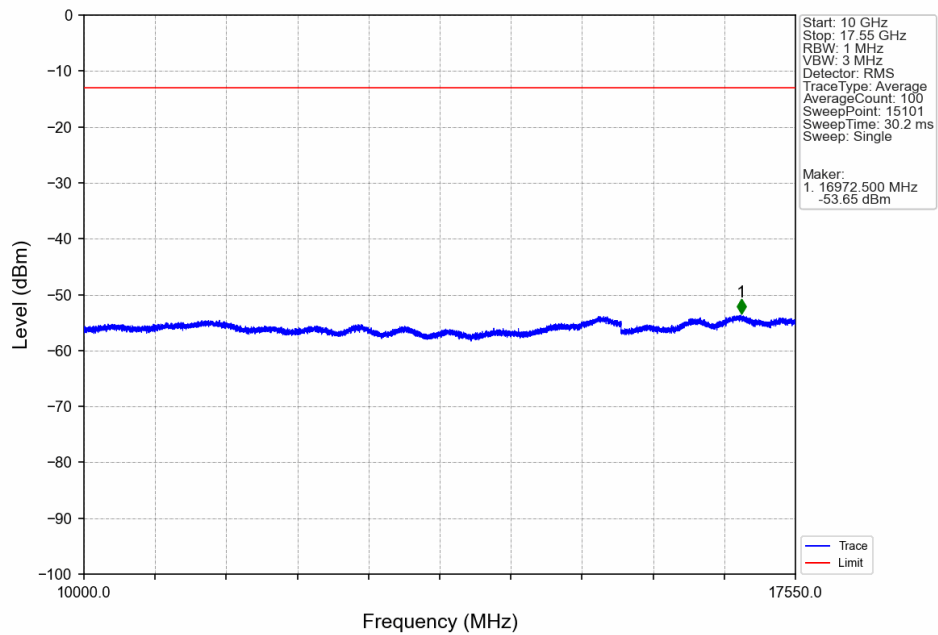
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



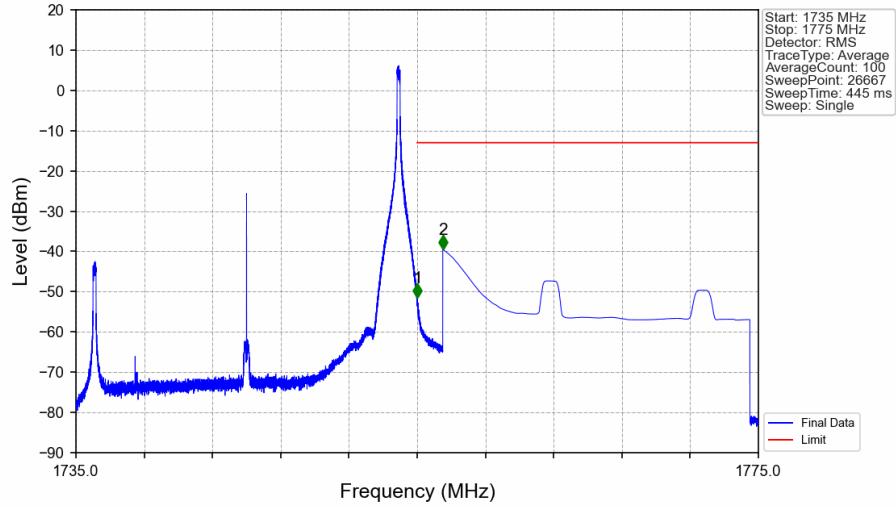
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

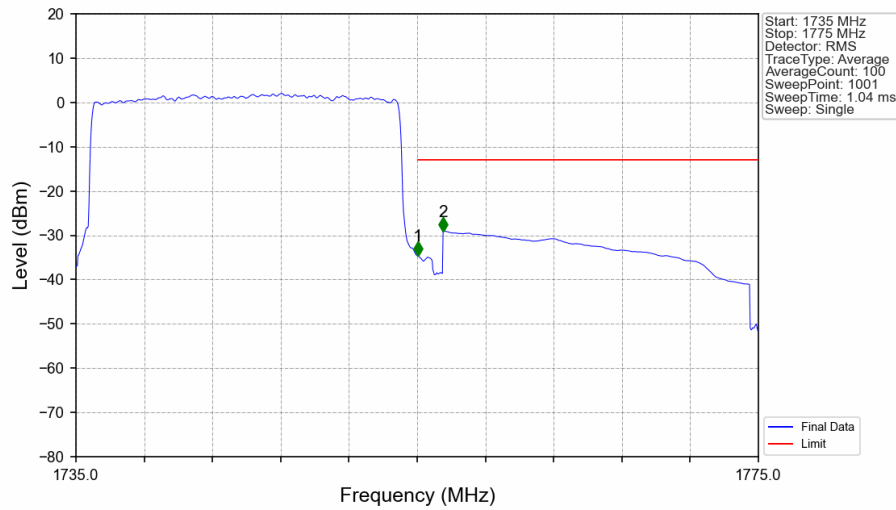


Band4 20MHz QPSK HCH 1745MHz RB 1 99 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-51.54	-13	Pass
1756	1775	1	CHP	2	1756.500	-39.50	-13	Pass

Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.194	CHP	/	/	/	/	/
1755	1756	0.194	CHP	1	1755.040	-34.67	-13	Pass
1756	1775	1	CHP	2	1756.520	-29.08	-13	Pass

6. Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6844.125	69.94	-46.82	35.25	-36.89	-13.00	23.89	Horizontal
2	10266.375	44.79	-41.48	38.99	-52.97	-13.00	39.97	Horizontal
3	3422.18	66.66	-48.38	28.44	-48.55	-13.00	35.55	Horizontal
4	5133.27	56.92	-47.84	31.57	-54.61	-13.00	41.61	Horizontal
5	8555.45	56.37	-44.11	36.91	-46.09	-13.00	33.09	Horizontal
6	11977.63	38.28	-39.55	39.40	-57.12	-13.00	44.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5133	61.23	-47.84	31.57	-50.30	-13.00	37.30	Vertical
2	8555.25	63.61	-44.11	36.91	-38.85	-13.00	25.85	Vertical
3	3422.18	57.92	-48.38	28.44	-57.29	-13.00	44.29	Vertical
4	6844.36	70.36	-46.82	35.25	-36.47	-13.00	23.47	Vertical
5	10266.54	51.06	-41.48	38.99	-46.69	-13.00	33.69	Vertical
6	11977.63	43.57	-39.55	39.40	-51.83	-13.00	38.83	Vertical

Test Band = LTE Band 4_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5170.5	56.85	-47.87	31.68	-54.60	-13.00	41.60	Horizontal
2	8617.875	60.48	-44.00	36.98	-41.80	-13.00	28.80	Horizontal
3	3447.18	66.68	-48.35	28.46	-48.48	-13.00	35.48	Horizontal
4	6894.36	69.50	-46.74	35.33	-37.17	-13.00	24.17	Horizontal
5	10341.54	42.01	-41.19	39.04	-55.40	-13.00	42.40	Horizontal
6	12065.13	37.53	-39.56	39.36	-57.93	-13.00	44.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	6894	70.77	-46.74	35.33	-35.90	-13.00	22.90	Vertical
2	8617.875	61.93	-44.00	36.98	-40.35	-13.00	27.35	Vertical
3	3447.18	59.37	-48.35	28.46	-55.79	-13.00	42.79	Vertical
4	5170.77	55.00	-47.87	31.68	-56.45	-13.00	43.45	Vertical
5	10341.54	47.44	-41.19	39.04	-49.97	-13.00	36.97	Vertical
6	12065.13	39.86	-39.56	39.36	-55.60	-13.00	42.60	Vertical

Test Band = LTE Band 4_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.125	66.70	-48.32	28.48	-48.41	-13.00	35.41	Horizontal
2	5208	58.77	-47.88	31.78	-52.59	-13.00	39.59	Horizontal
3	10416.375	43.45	-41.14	39.09	-53.86	-13.00	40.86	Horizontal
4	6944.36	62.93	-46.67	35.41	-43.59	-13.00	30.59	Horizontal
5	8680.45	63.06	-44.09	37.05	-39.24	-13.00	26.24	Horizontal
6	12152.63	37.68	-39.73	39.31	-58.00	-13.00	45.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.125	61.32	-48.32	28.48	-53.79	-13.00	40.79	Vertical
2	6944.25	69.46	-46.67	35.41	-37.06	-13.00	24.06	Vertical
3	12152.625	46.46	-39.73	39.31	-49.22	-13.00	36.22	Vertical
4	5208.27	55.99	-47.88	31.78	-55.37	-13.00	42.37	Vertical
5	8680.45	64.49	-44.09	37.05	-37.81	-13.00	24.81	Vertical
6	10416.54	52.90	-41.14	39.09	-44.41	-13.00	31.41	Vertical