

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	24.29	-1.80	22.49	<=30	Pass
			5	24.36	-1.80	22.56	<=30	Pass
		6	0	23.49	-1.80	21.69	<=30	Pass
	1732.5	1	0	24.33	-1.80	22.53	<=30	Pass
			5	24.32	-1.80	22.52	<=30	Pass
		6	0	23.27	-1.80	21.47	<=30	Pass
	1754.3	1	0	24.47	-1.80	22.67	<=30	Pass
			5	24.37	-1.80	22.57	<=30	Pass
		6	0	23.57	-1.80	21.77	<=30	Pass
16QAM	1710.7	1	0	23.74	-1.80	21.94	<=30	Pass
			5	23.59	-1.80	21.79	<=30	Pass
		6	0	22.16	-1.80	20.36	<=30	Pass
	1732.5	1	0	23.39	-1.80	21.59	<=30	Pass
			5	23.50	-1.80	21.70	<=30	Pass
		6	0	22.35	-1.80	20.55	<=30	Pass
	1754.3	1	0	23.94	-1.80	22.14	<=30	Pass
			5	23.78	-1.80	21.98	<=30	Pass
		6	0	22.66	-1.80	20.86	<=30	Pass
64QAM	1710.7	1	0	23.50	-1.80	21.70	<=30	Pass
			5	23.53	-1.80	21.73	<=30	Pass
		6	0	22.50	-1.80	20.70	<=30	Pass
	1732.5	1	0	23.33	-1.80	21.53	<=30	Pass
			5	23.36	-1.80	21.56	<=30	Pass
		6	0	22.33	-1.80	20.53	<=30	Pass
	1754.3	1	0	23.55	-1.80	21.75	<=30	Pass
			5	23.62	-1.80	21.82	<=30	Pass
		6	0	22.56	-1.80	20.76	<=30	Pass
256QAM	1710.7	1	0	19.50	-1.80	17.70	<=30	Pass
			5	19.39	-1.80	17.59	<=30	Pass
		6	0	19.44	-1.80	17.64	<=30	Pass
	1732.5	1	0	19.39	-1.80	17.59	<=30	Pass
			5	19.17	-1.80	17.37	<=30	Pass
		6	0	19.30	-1.80	17.50	<=30	Pass
	1754.3	1	0	18.98	-1.80	17.18	<=30	Pass
			5	19.65	-1.80	17.85	<=30	Pass
		6	0	19.57	-1.80	17.77	<=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	24.24	-1.80	22.44	<=30	Pass
			14	24.12	-1.80	22.32	<=30	Pass
		15	0	23.47	-1.80	21.67	<=30	Pass
	1732.5	1	0	24.21	-1.80	22.41	<=30	Pass

			14	24.31	-1.80	22.51	<=30	Pass
		15	0	23.24	-1.80	21.44	<=30	Pass
	1753.5	1	0	24.38	-1.80	22.58	<=30	Pass
			14	24.52	-1.80	22.72	<=30	Pass
		15	0	23.70	-1.80	21.90	<=30	Pass
16QAM	1711.5	1	0	23.37	-1.80	21.57	<=30	Pass
			14	23.67	-1.80	21.87	<=30	Pass
		15	0	22.43	-1.80	20.63	<=30	Pass
	1732.5	1	0	23.31	-1.80	21.51	<=30	Pass
			14	23.51	-1.80	21.71	<=30	Pass
		15	0	22.27	-1.80	20.47	<=30	Pass
	1753.5	1	0	23.76	-1.80	21.96	<=30	Pass
			14	23.86	-1.80	22.06	<=30	Pass
		15	0	22.74	-1.80	20.94	<=30	Pass
64QAM	1711.5	1	0	23.58	-1.80	21.78	<=30	Pass
			14	23.55	-1.80	21.75	<=30	Pass
		15	0	22.31	-1.80	20.51	<=30	Pass
	1732.5	1	0	23.36	-1.80	21.56	<=30	Pass
			14	23.22	-1.80	21.42	<=30	Pass
		15	0	22.30	-1.80	20.50	<=30	Pass
	1753.5	1	0	23.47	-1.80	21.67	<=30	Pass
			14	23.49	-1.80	21.69	<=30	Pass
		15	0	22.54	-1.80	20.74	<=30	Pass
256QAM	1711.5	1	0	19.63	-1.80	17.83	<=30	Pass
			14	19.52	-1.80	17.72	<=30	Pass
		15	0	19.50	-1.80	17.70	<=30	Pass
	1732.5	1	0	19.40	-1.80	17.60	<=30	Pass
			14	19.41	-1.80	17.61	<=30	Pass
		15	0	19.32	-1.80	17.52	<=30	Pass
	1753.5	1	0	19.70	-1.80	17.90	<=30	Pass
			14	19.67	-1.80	17.87	<=30	Pass
		15	0	19.54	-1.80	17.74	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	24.26	-1.80	22.46	<=30	Pass
			24	24.04	-1.80	22.24	<=30	Pass
		25	0	23.33	-1.80	21.53	<=30	Pass
	1732.5	1	0	24.24	-1.80	22.44	<=30	Pass
			24	24.29	-1.80	22.49	<=30	Pass
		25	0	23.31	-1.80	21.51	<=30	Pass
	1752.5	1	0	24.29	-1.80	22.49	<=30	Pass
			24	24.27	-1.80	22.47	<=30	Pass
16QAM	1712.5	1	0	23.27	-1.80	21.47	<=30	Pass
			24	23.31	-1.80	21.51	<=30	Pass
		25	0	22.52	-1.80	20.72	<=30	Pass
	1732.5	1	0	23.67	-1.80	21.87	<=30	Pass
			24	23.62	-1.80	21.82	<=30	Pass
		25	0	22.33	-1.80	20.53	<=30	Pass
	1752.5	1	0	23.92	-1.80	22.12	<=30	Pass
			24	23.80	-1.80	22.00	<=30	Pass
		25	0	22.56	-1.80	20.76	<=30	Pass

64QAM	1712.5	1	0	23.57	-1.80	21.77	<=30	Pass
			24	23.44	-1.80	21.64	<=30	Pass
		25	0	22.35	-1.80	20.55	<=30	Pass
	1732.5	1	0	23.31	-1.80	21.51	<=30	Pass
			24	23.44	-1.80	21.64	<=30	Pass
		25	0	22.36	-1.80	20.56	<=30	Pass
	1752.5	1	0	23.07	-1.80	21.27	<=30	Pass
			24	23.50	-1.80	21.70	<=30	Pass
		25	0	22.70	-1.80	20.90	<=30	Pass
256QAM	1712.5	1	0	19.53	-1.80	17.73	<=30	Pass
			24	19.43	-1.80	17.63	<=30	Pass
		25	0	19.41	-1.80	17.61	<=30	Pass
	1732.5	1	0	19.24	-1.80	17.44	<=30	Pass
			24	18.75	-1.80	16.95	<=30	Pass
		25	0	19.29	-1.80	17.49	<=30	Pass
	1752.5	1	0	19.78	-1.80	17.98	<=30	Pass
			24	19.59	-1.80	17.79	<=30	Pass
		25	0	19.72	-1.80	17.92	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	24.07	-1.80	22.27	<=30	Pass
			49	24.17	-1.80	22.37	<=30	Pass
		50	0	23.51	-1.80	21.71	<=30	Pass
	1732.5	1	0	24.09	-1.80	22.29	<=30	Pass
			49	24.49	-1.80	22.69	<=30	Pass
		50	0	23.02	-1.80	21.22	<=30	Pass
	1750	1	0	24.47	-1.80	22.67	<=30	Pass
			49	24.46	-1.80	22.66	<=30	Pass
		50	0	23.60	-1.80	21.80	<=30	Pass
16QAM	1715	1	0	23.90	-1.80	22.10	<=30	Pass
			49	23.61	-1.80	21.81	<=30	Pass
		50	0	22.21	-1.80	20.41	<=30	Pass
	1732.5	1	0	23.52	-1.80	21.72	<=30	Pass
			49	23.80	-1.80	22.00	<=30	Pass
		50	0	22.35	-1.80	20.55	<=30	Pass
	1750	1	0	23.81	-1.80	22.01	<=30	Pass
			49	23.87	-1.80	22.07	<=30	Pass
		50	0	22.35	-1.80	20.55	<=30	Pass
64QAM	1715	1	0	23.55	-1.80	21.75	<=30	Pass
			49	23.15	-1.80	21.35	<=30	Pass
		50	0	22.32	-1.80	20.52	<=30	Pass
	1732.5	1	0	23.45	-1.80	21.65	<=30	Pass
			49	23.41	-1.80	21.61	<=30	Pass
		50	0	22.32	-1.80	20.52	<=30	Pass
	1750	1	0	23.67	-1.80	21.87	<=30	Pass
			49	23.67	-1.80	21.87	<=30	Pass
		50	0	22.56	-1.80	20.76	<=30	Pass
256QAM	1715	1	0	19.31	-1.80	17.51	<=30	Pass
			49	19.32	-1.80	17.52	<=30	Pass
	1732.5	1	0	19.45	-1.80	17.65	<=30	Pass
			49	19.32	-1.80	17.52	<=30	Pass

	1750	50	0	19.23	-1.80	17.43	<=30	Pass
		1	0	19.50	-1.80	17.70	<=30	Pass
			49	19.73	-1.80	17.93	<=30	Pass
		50	0	19.52	-1.80	17.72	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	24.24	-1.80	22.44	<=30	Pass
			74	24.07	-1.80	22.27	<=30	Pass
		75	0	23.11	-1.80	21.31	<=30	Pass
	1732.5	1	0	23.79	-1.80	21.99	<=30	Pass
			74	24.74	-1.80	22.94	<=30	Pass
		75	0	23.11	-1.80	21.31	<=30	Pass
	1747.5	1	0	24.11	-1.80	22.31	<=30	Pass
			74	24.47	-1.80	22.67	<=30	Pass
		75	0	23.40	-1.80	21.60	<=30	Pass
16QAM	1717.5	1	0	23.51	-1.80	21.71	<=30	Pass
			74	23.12	-1.80	21.32	<=30	Pass
		75	0	22.25	-1.80	20.45	<=30	Pass
	1732.5	1	0	23.17	-1.80	21.37	<=30	Pass
			74	23.61	-1.80	21.81	<=30	Pass
		75	0	22.22	-1.80	20.42	<=30	Pass
	1747.5	1	0	23.21	-1.80	21.41	<=30	Pass
			74	23.79	-1.80	21.99	<=30	Pass
		75	0	22.27	-1.80	20.47	<=30	Pass
64QAM	1717.5	1	0	23.28	-1.80	21.48	<=30	Pass
			74	23.02	-1.80	21.22	<=30	Pass
		75	0	22.15	-1.80	20.35	<=30	Pass
	1732.5	1	0	22.95	-1.80	21.15	<=30	Pass
			74	23.32	-1.80	21.52	<=30	Pass
		75	0	22.22	-1.80	20.42	<=30	Pass
	1747.5	1	0	23.41	-1.80	21.61	<=30	Pass
			74	23.23	-1.80	21.43	<=30	Pass
		75	0	22.18	-1.80	20.38	<=30	Pass
256QAM	1717.5	1	0	19.39	-1.80	17.59	<=30	Pass
			74	19.43	-1.80	17.63	<=30	Pass
		75	0	19.24	-1.80	17.44	<=30	Pass
	1732.5	1	0	19.25	-1.80	17.45	<=30	Pass
			74	19.28	-1.80	17.48	<=30	Pass
		75	0	19.21	-1.80	17.41	<=30	Pass
	1747.5	1	0	19.30	-1.80	17.50	<=30	Pass
			74	19.49	-1.80	17.69	<=30	Pass
		75	0	19.39	-1.80	17.59	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	24.19	-1.80	22.39	<=30	Pass
			99	24.27	-1.80	22.47	<=30	Pass

	1732.5	100	0	23.03	-1.80	21.23	<=30	Pass
		1	0	23.91	-1.80	22.11	<=30	Pass
			99	24.51	-1.80	22.71	<=30	Pass
		100	0	23.24	-1.80	21.44	<=30	Pass
	1745	1	0	24.13	-1.80	22.33	<=30	Pass
			99	24.15	-1.80	22.35	<=30	Pass
100		0	23.22	-1.80	21.42	<=30	Pass	
16QAM	1720	1	0	23.45	-1.80	21.65	<=30	Pass
			99	23.43	-1.80	21.63	<=30	Pass
		100	0	22.16	-1.80	20.36	<=30	Pass
	1732.5	1	0	23.15	-1.80	21.35	<=30	Pass
			99	23.12	-1.80	21.32	<=30	Pass
		100	0	22.17	-1.80	20.37	<=30	Pass
	1745	1	0	23.38	-1.80	21.58	<=30	Pass
			99	23.89	-1.80	22.09	<=30	Pass
		100	0	22.06	-1.80	20.26	<=30	Pass
64QAM	1720	1	0	23.49	-1.80	21.69	<=30	Pass
			99	23.27	-1.80	21.47	<=30	Pass
		100	0	22.29	-1.80	20.49	<=30	Pass
	1732.5	1	0	22.75	-1.80	20.95	<=30	Pass
			99	23.27	-1.80	21.47	<=30	Pass
		100	0	22.20	-1.80	20.40	<=30	Pass
	1745	1	0	23.03	-1.80	21.23	<=30	Pass
			99	23.61	-1.80	21.81	<=30	Pass
		100	0	22.48	-1.80	20.68	<=30	Pass
256QAM	1720	1	0	19.11	-1.80	17.31	<=30	Pass
			99	19.41	-1.80	17.61	<=30	Pass
		100	0	19.18	-1.80	17.38	<=30	Pass
	1732.5	1	0	19.25	-1.80	17.45	<=30	Pass
			99	19.43	-1.80	17.63	<=30	Pass
		100	0	19.16	-1.80	17.36	<=30	Pass
	1745	1	0	19.33	-1.80	17.53	<=30	Pass
			99	19.73	-1.80	17.93	<=30	Pass
		100	0	19.50	-1.80	17.70	<=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	3.6	-1.900	-0.0011	-2.5 to 2.5	Pass
					3.84	-1.900	-0.0011	-2.5 to 2.5	Pass
					4.3	-2.700	-0.0016	-2.5 to 2.5	Pass
				-30	3.84	-1.600	-0.0009	-2.5 to 2.5	Pass
				-20	3.84	-1.600	-0.0009	-2.5 to 2.5	Pass
				-10	3.84	-3.100	-0.0018	-2.5 to 2.5	Pass
				0	3.84	-0.500	-0.0003	-2.5 to 2.5	Pass
				10	3.84	-1.400	-0.0008	-2.5 to 2.5	Pass
				30	3.84	-2.600	-0.0015	-2.5 to 2.5	Pass
				40	3.84	-1.500	-0.0009	-2.5 to 2.5	Pass
				50	3.84	0.400	0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

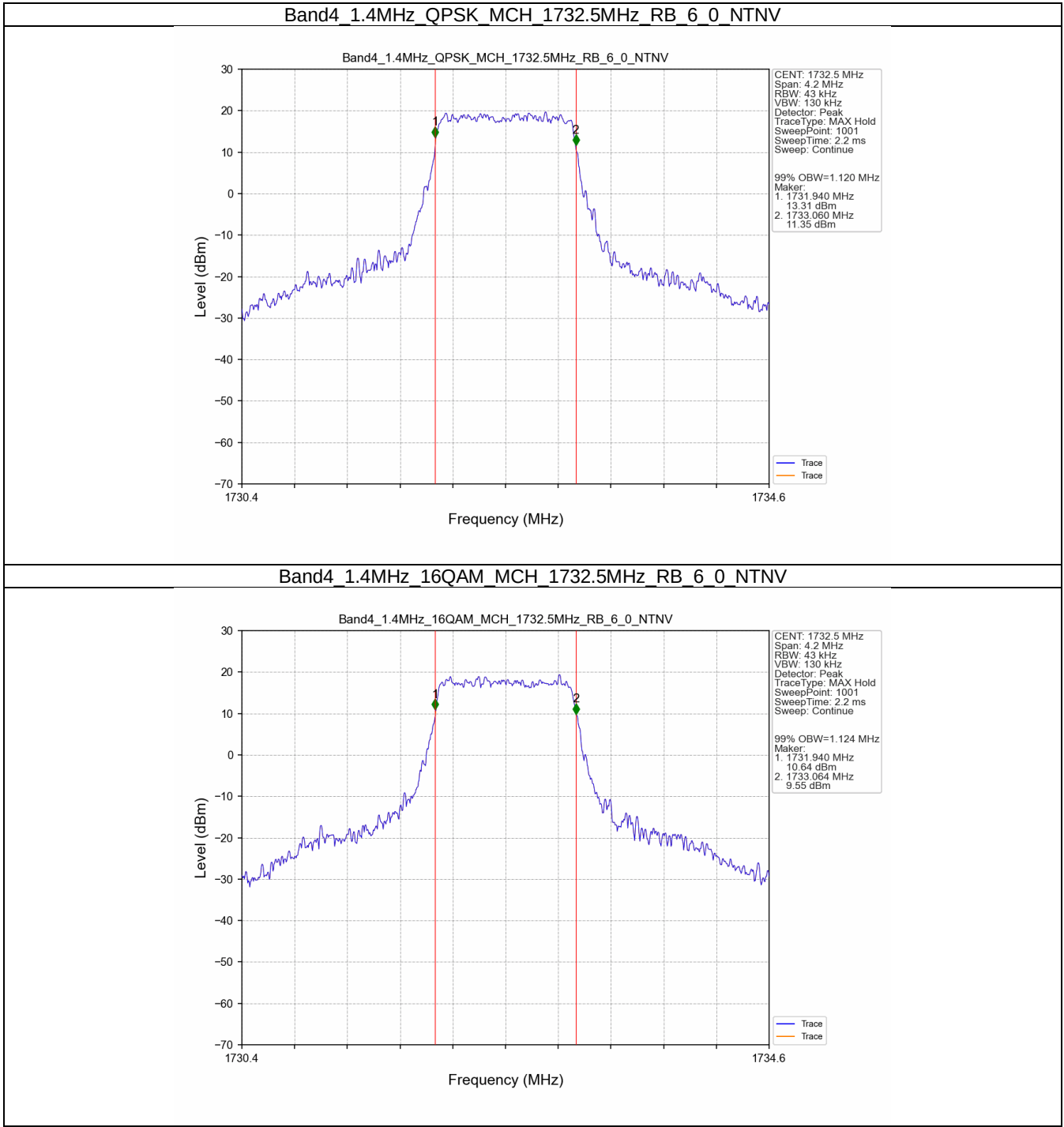
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.120	/	Pass
	16QAM	1732.5	6	0	1.124	/	Pass
3	QPSK	1732.5	15	0	2.732	/	Pass
	16QAM	1732.5	15	0	2.742	/	Pass
5	QPSK	1732.5	25	0	4.581	/	Pass
	16QAM	1732.5	25	0	4.554	/	Pass
10	QPSK	1732.5	50	0	9.075	/	Pass
	16QAM	1732.5	50	0	9.090	/	Pass
15	QPSK	1732.5	75	0	13.594	/	Pass
	16QAM	1732.5	75	0	13.608	/	Pass
20	QPSK	1732.5	100	0	18.117	/	Pass
	16QAM	1732.5	100	0	18.074	/	Pass

3.1.2 Band4_XDB

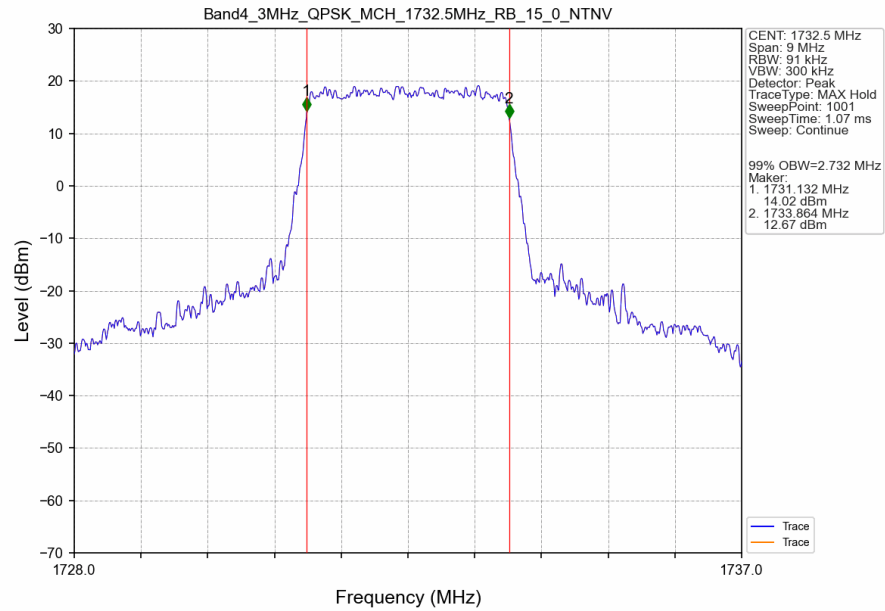
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.424	/	Pass
	16QAM	1732.5	6	0	1.385	/	Pass
3	QPSK	1732.5	15	0	3.118	/	Pass
	16QAM	1732.5	15	0	3.102	/	Pass
5	QPSK	1732.5	25	0	5.269	/	Pass
	16QAM	1732.5	25	0	5.242	/	Pass
10	QPSK	1732.5	50	0	10.180	/	Pass
	16QAM	1732.5	50	0	10.258	/	Pass
15	QPSK	1732.5	75	0	15.120	/	Pass
	16QAM	1732.5	75	0	15.169	/	Pass
20	QPSK	1732.5	100	0	20.291	/	Pass
	16QAM	1732.5	100	0	20.115	/	Pass

3.2 Test Graph

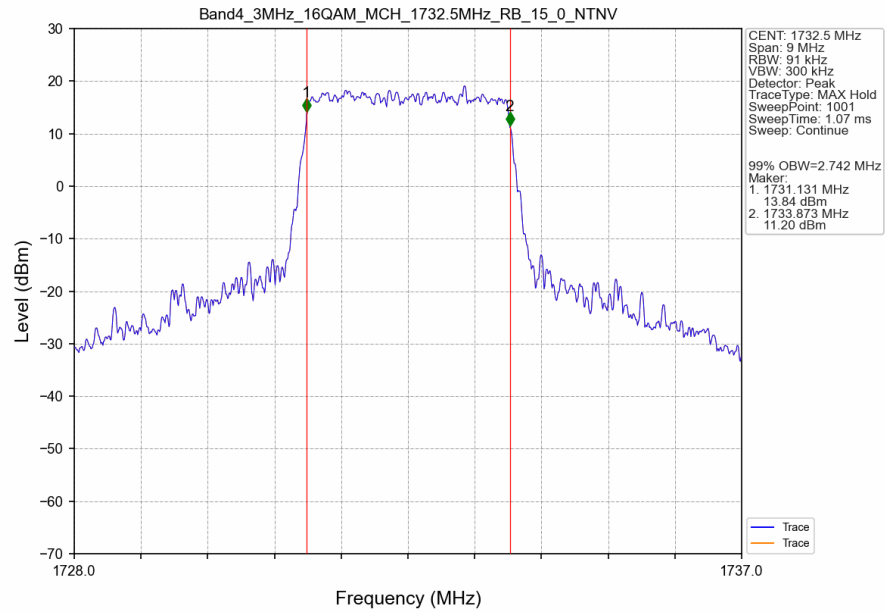
3.2.1 Band4_OBW



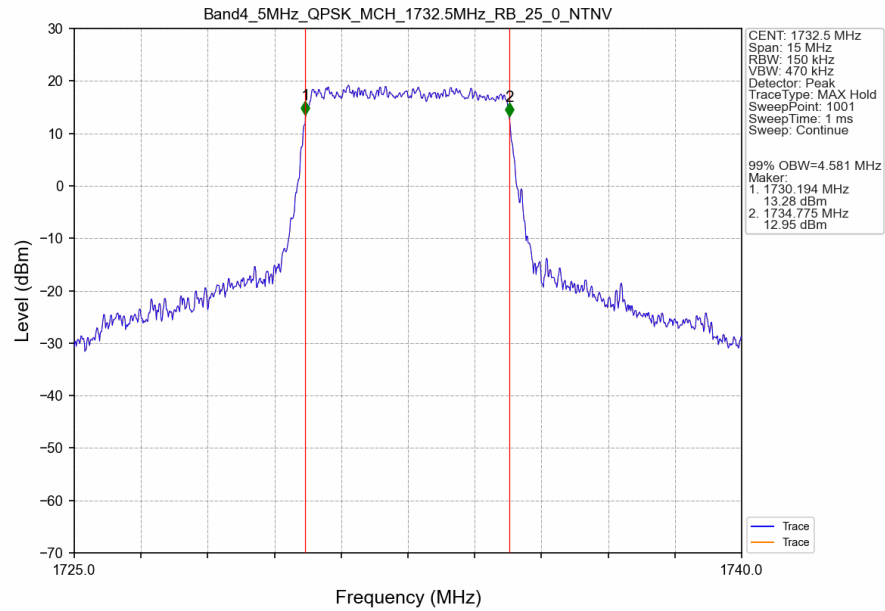
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



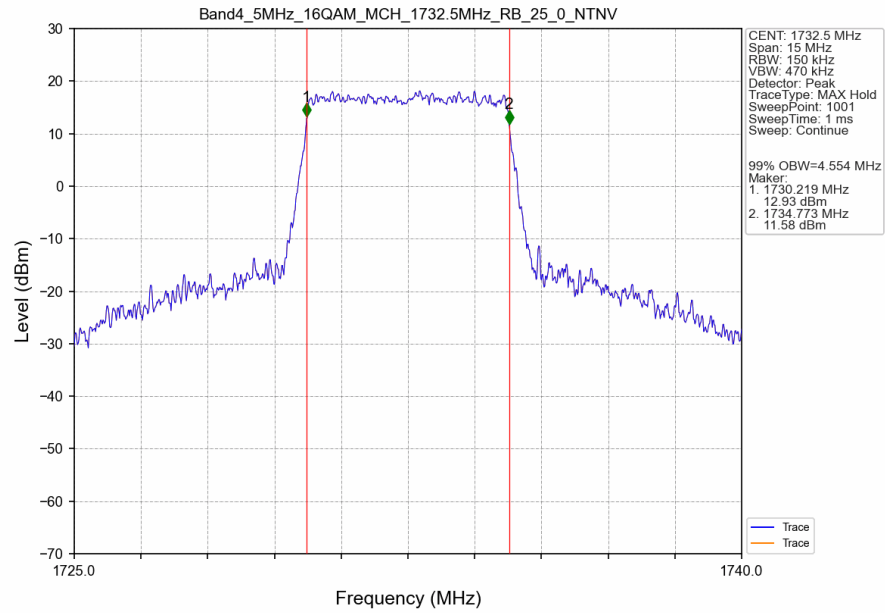
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTV



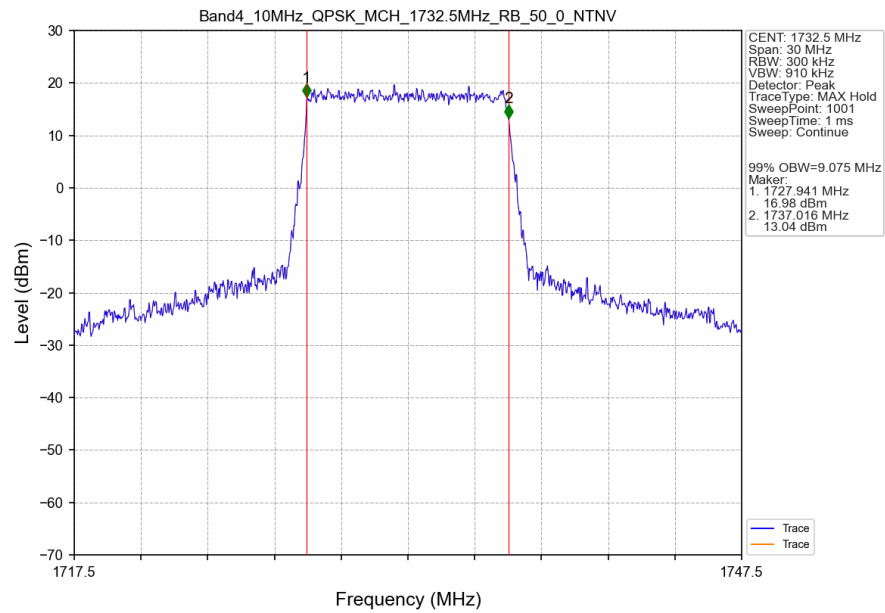
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTNV



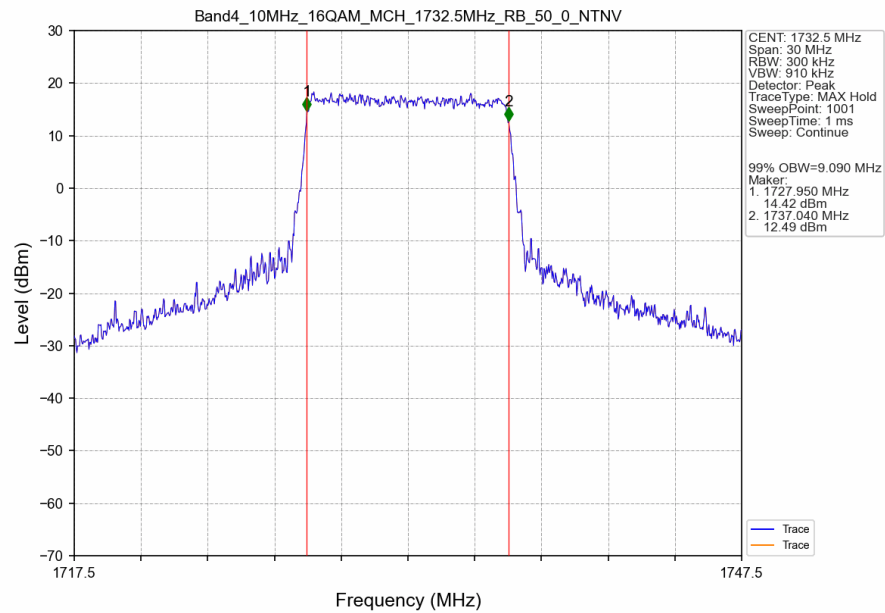
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTNV



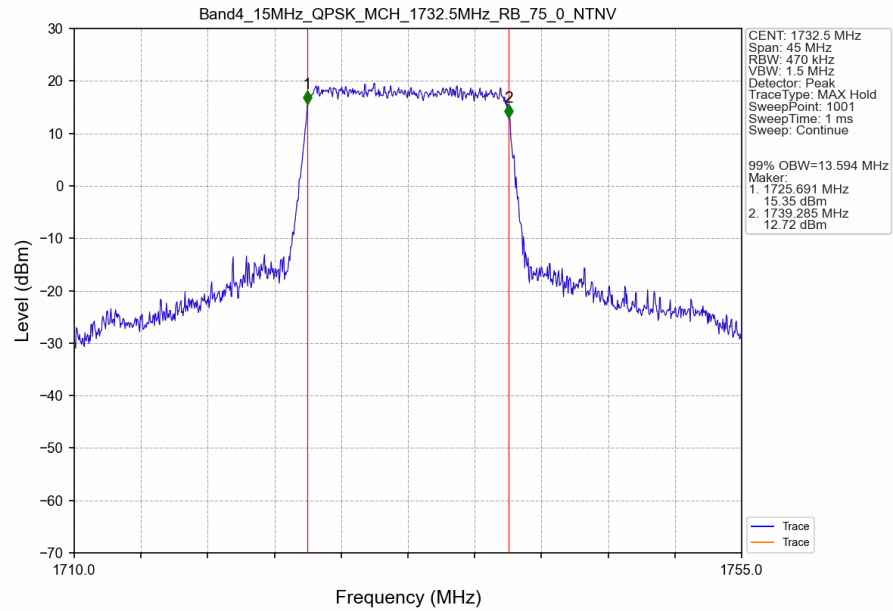
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTV



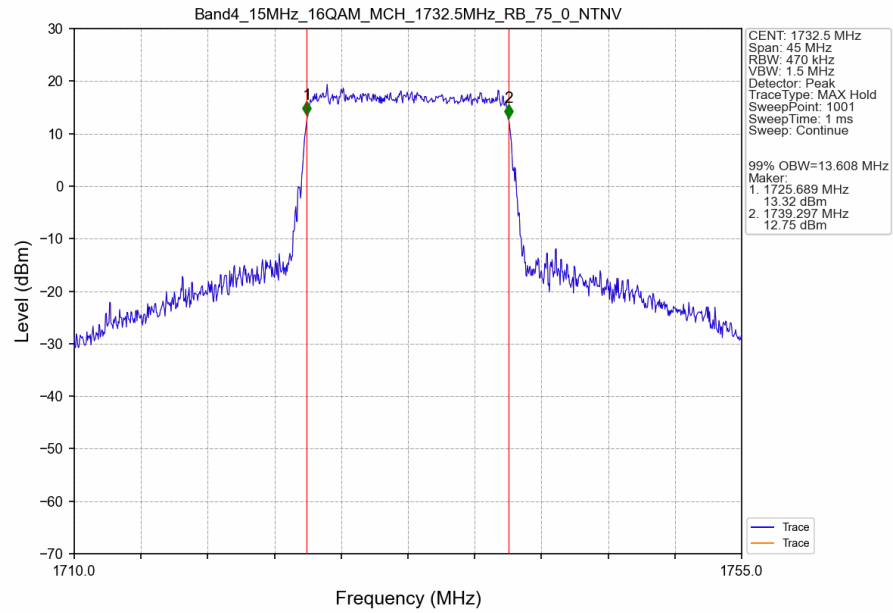
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTV



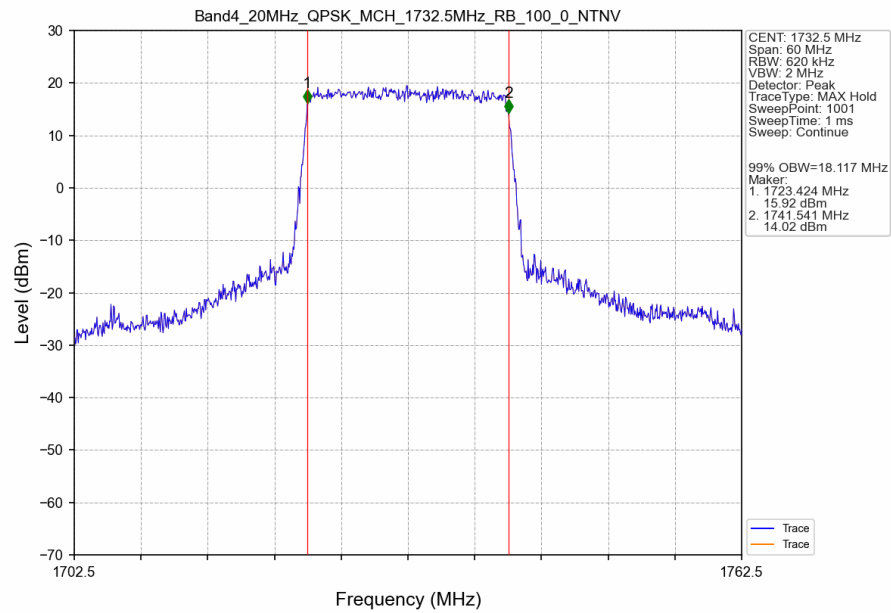
Band4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTV



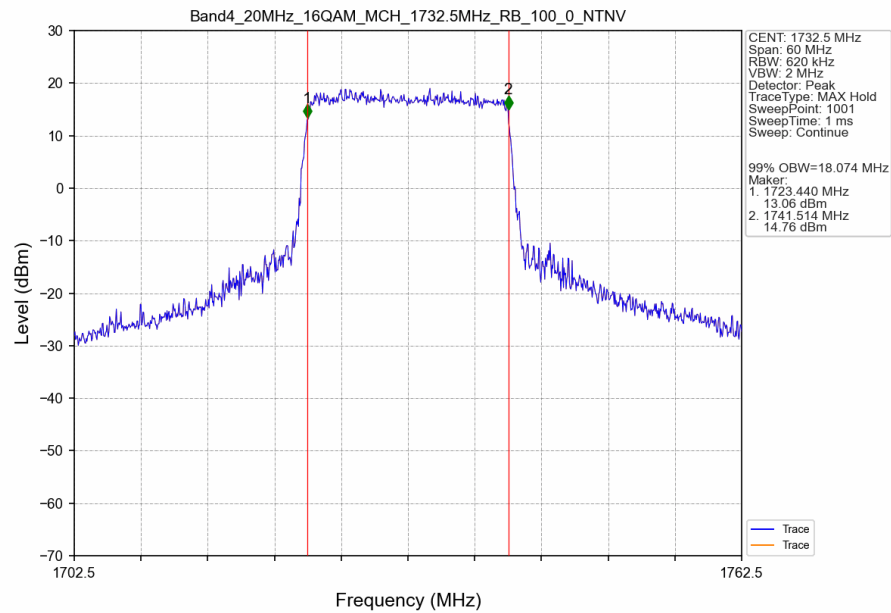
Band4 15MHz 16QAM MCH 1732.5MHz RB 75 0 NTV



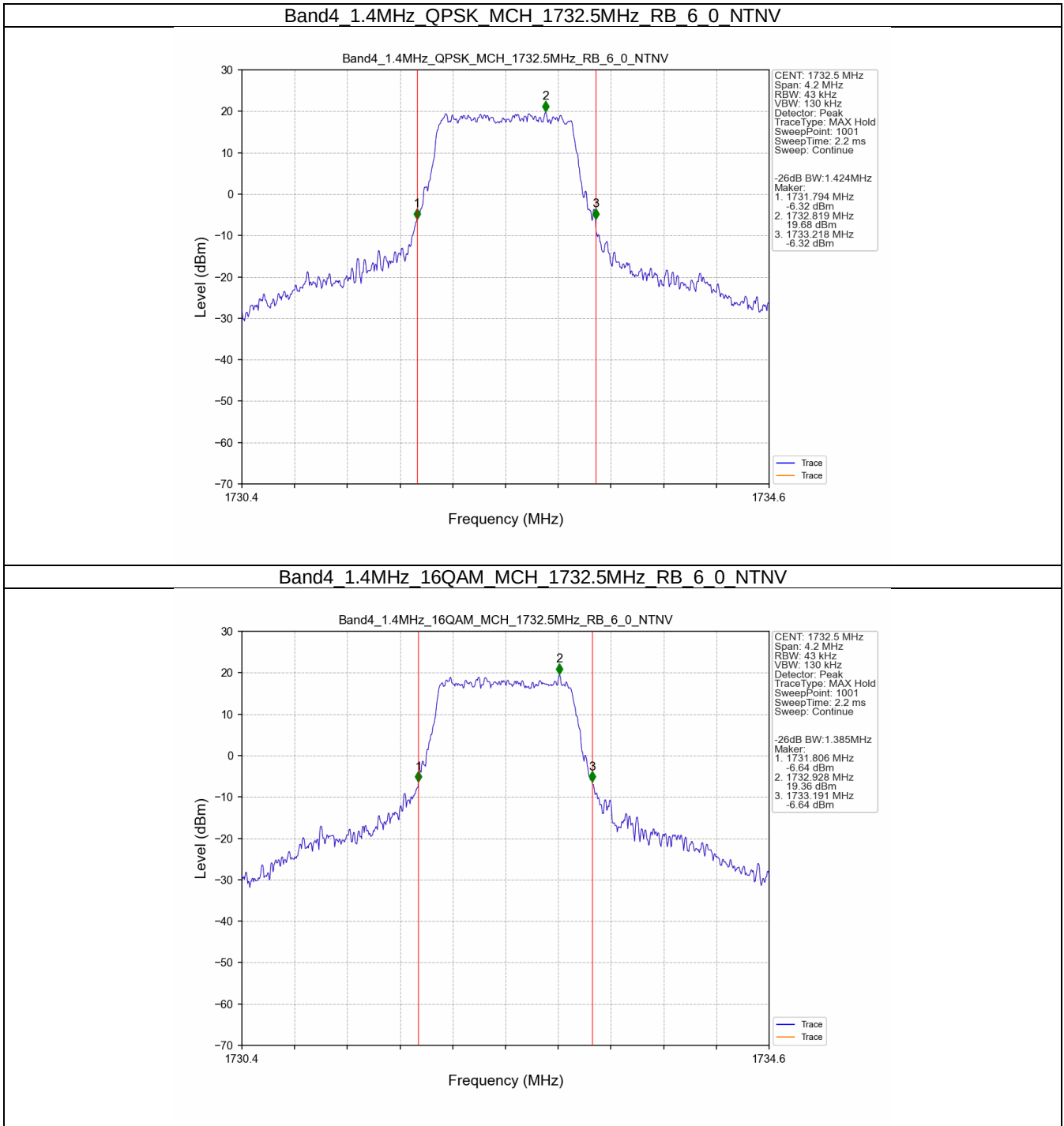
Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTN



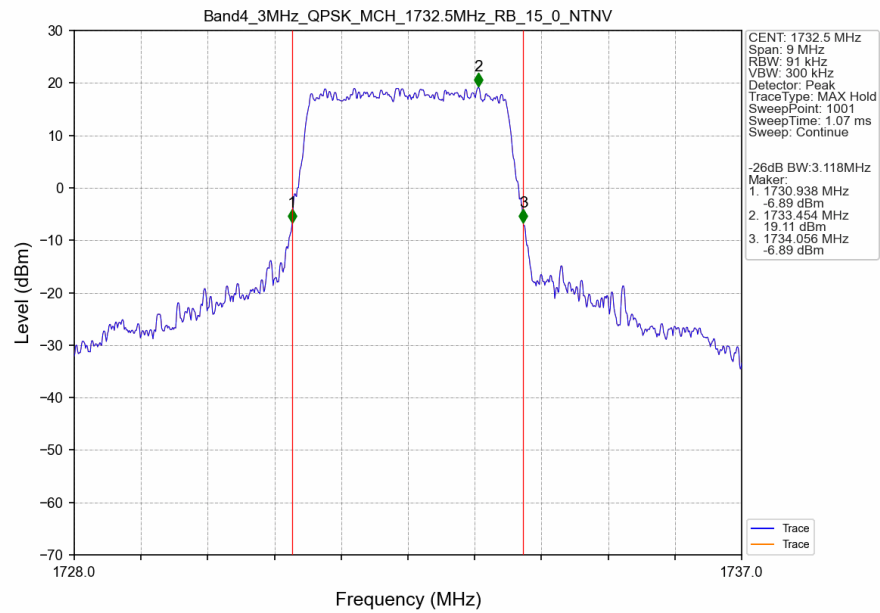
Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTN



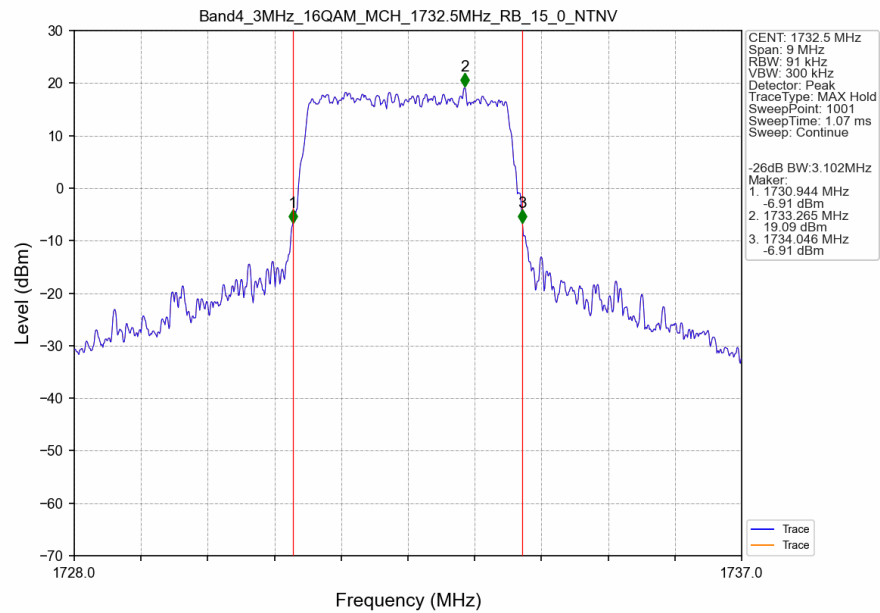
3.2.2 Band4_XDB



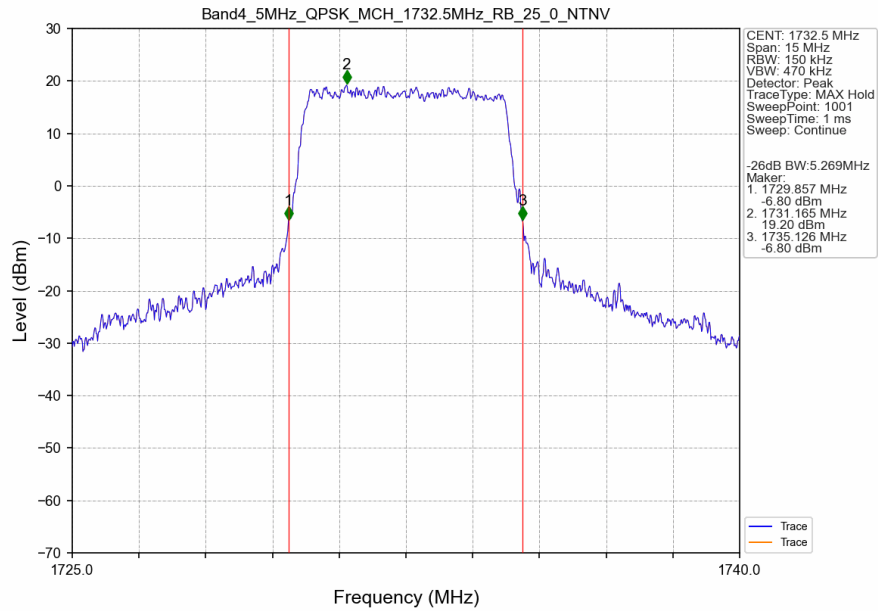
Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTN



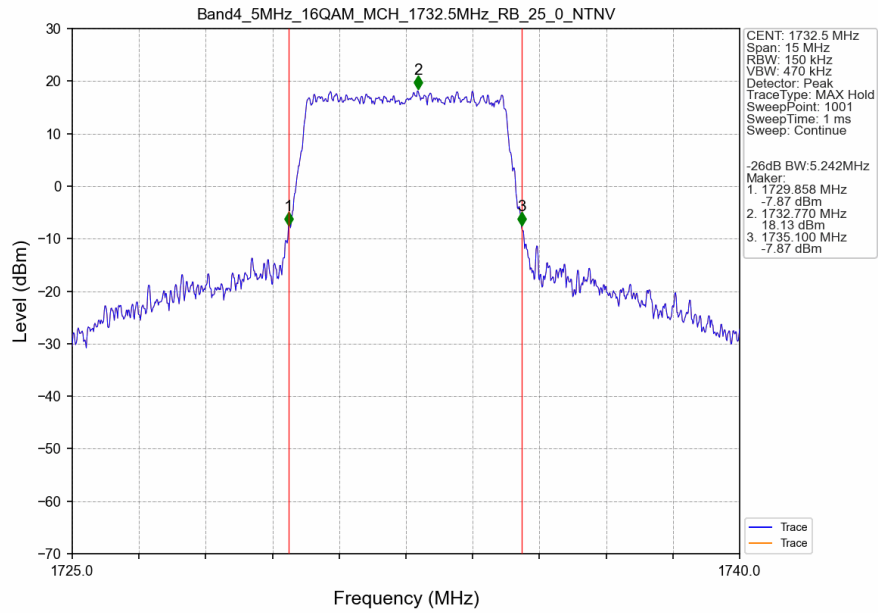
Band4 3MHz 16QAM MCH 1732.5MHz RB 15 0 NTN



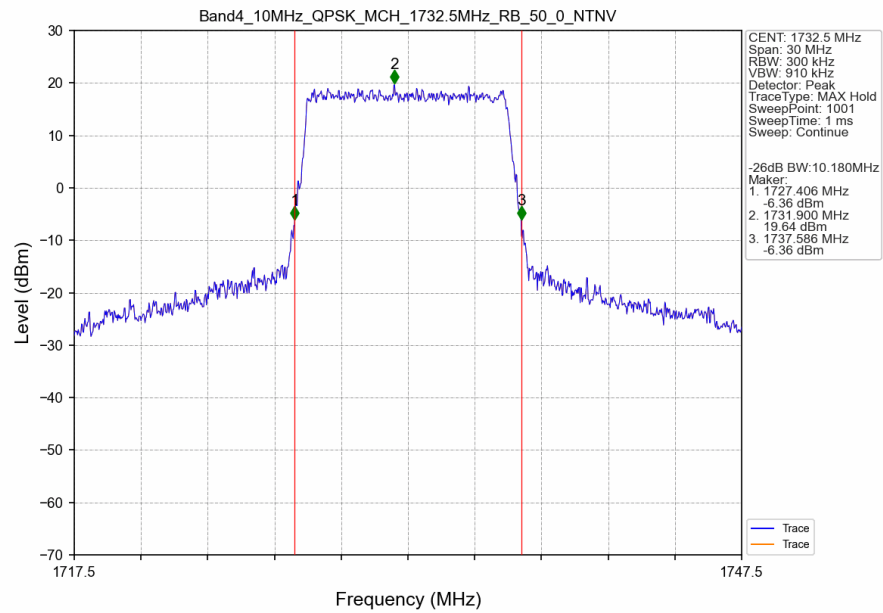
Band4 5MHz QPSK MCH 1732.5MHz RB 25 0 NTN



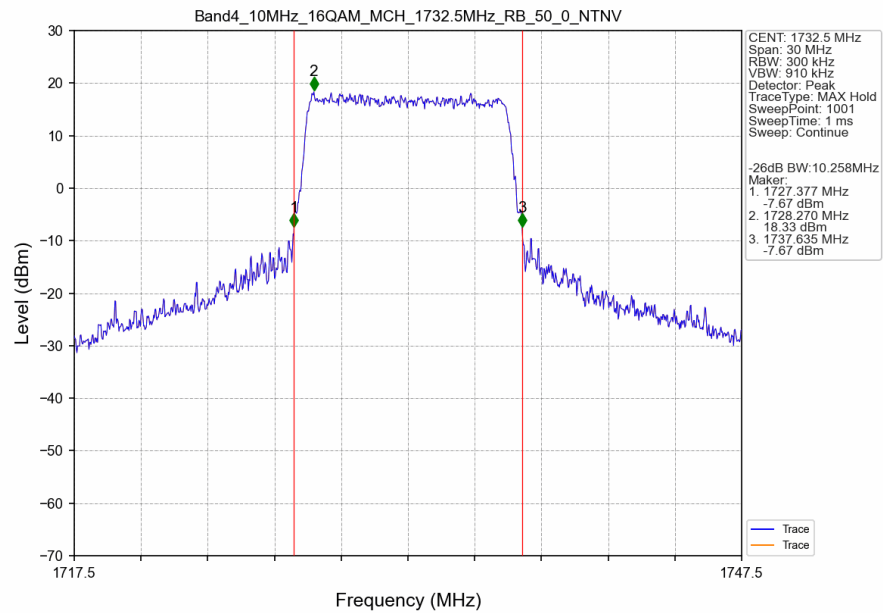
Band4 5MHz 16QAM MCH 1732.5MHz RB 25 0 NTN



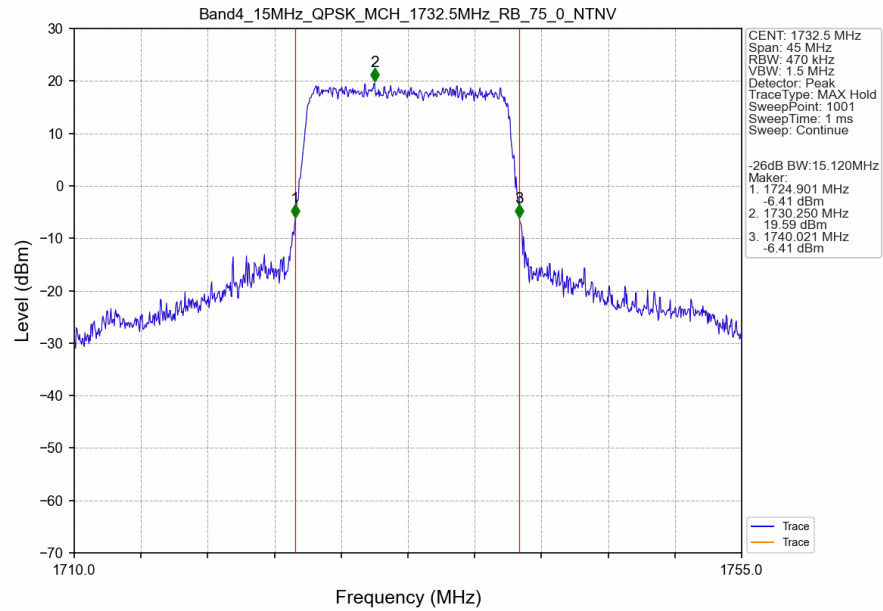
Band4 10MHz QPSK MCH 1732.5MHz RB 50 0 NTNV



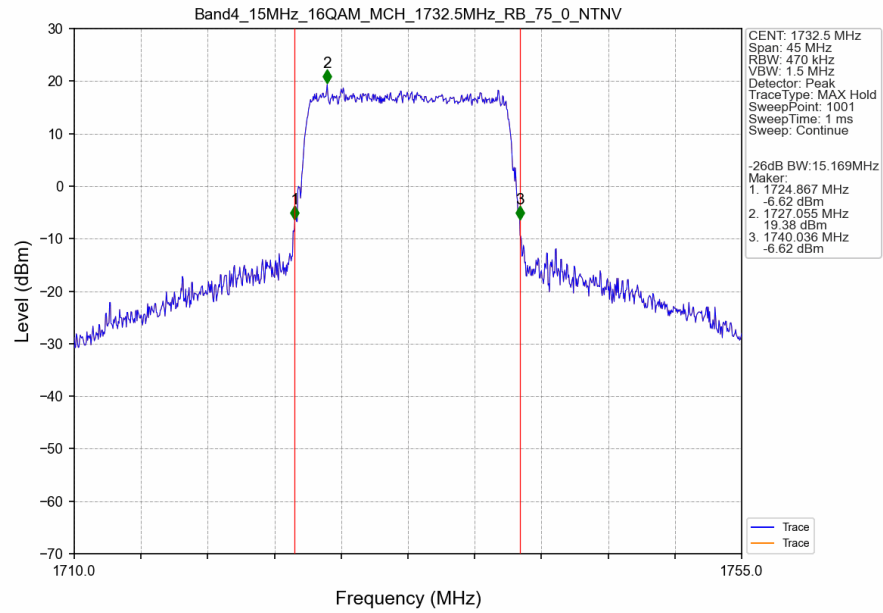
Band4 10MHz 16QAM MCH 1732.5MHz RB 50 0 NTNV



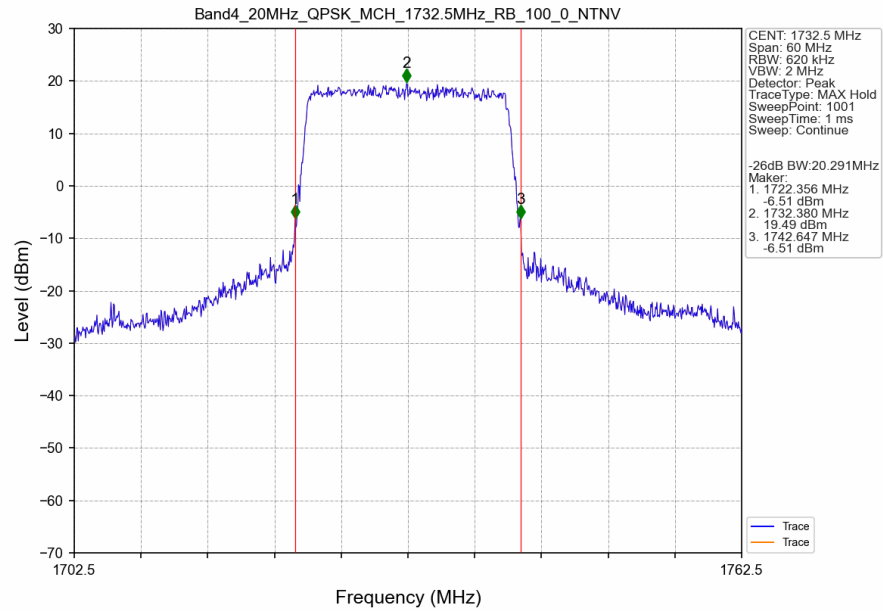
Band4 15MHz QPSK MCH 1732.5MHz RB 75 0 NTV



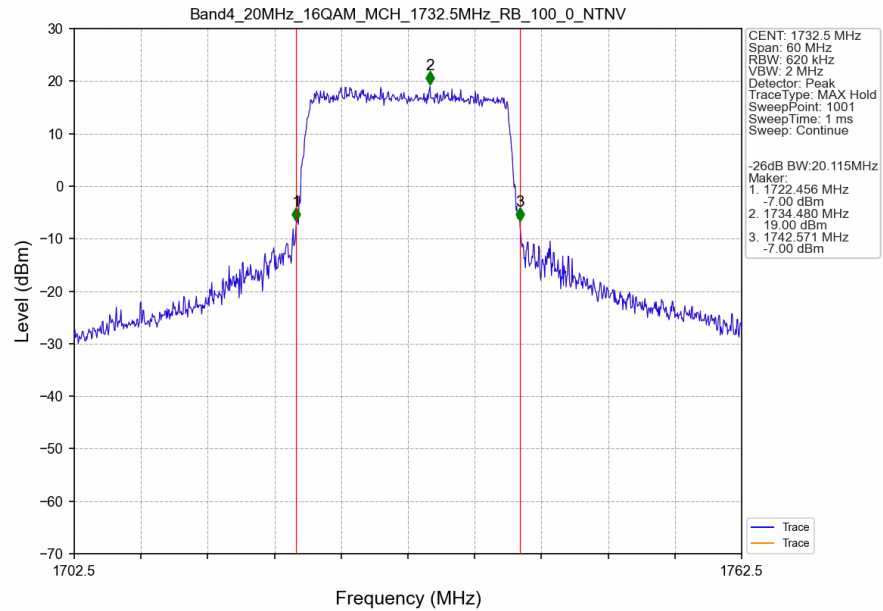
Band4 15MHz 16QAM MCH 1732.5MHz RB 75 0 NTV



Band4 20MHz QPSK MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 16QAM MCH 1732.5MHz RB 100 0 NTNV



4. Peak-Average Ratio

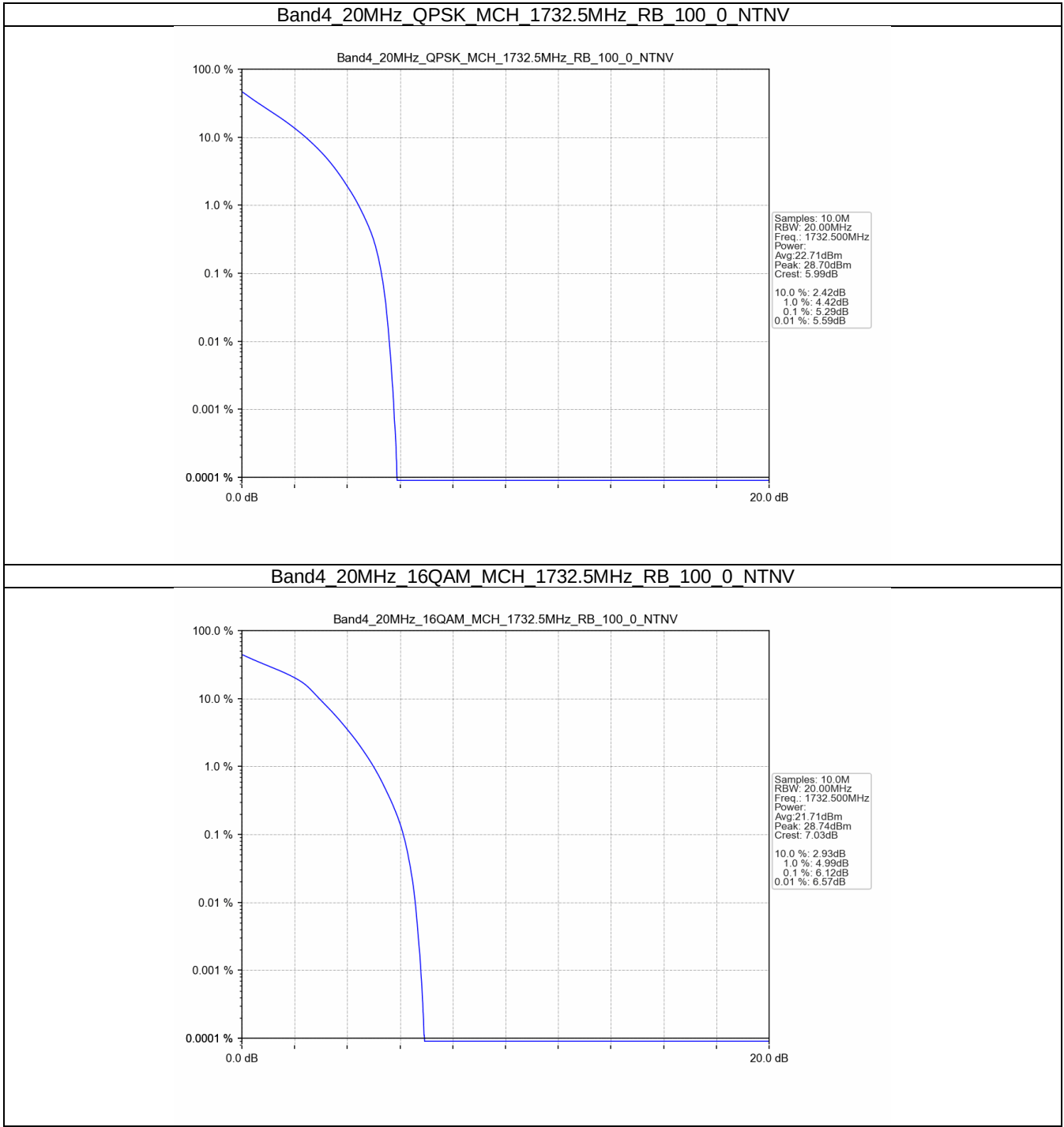
4.1 Test Result

4.1.1 B4_20MHz

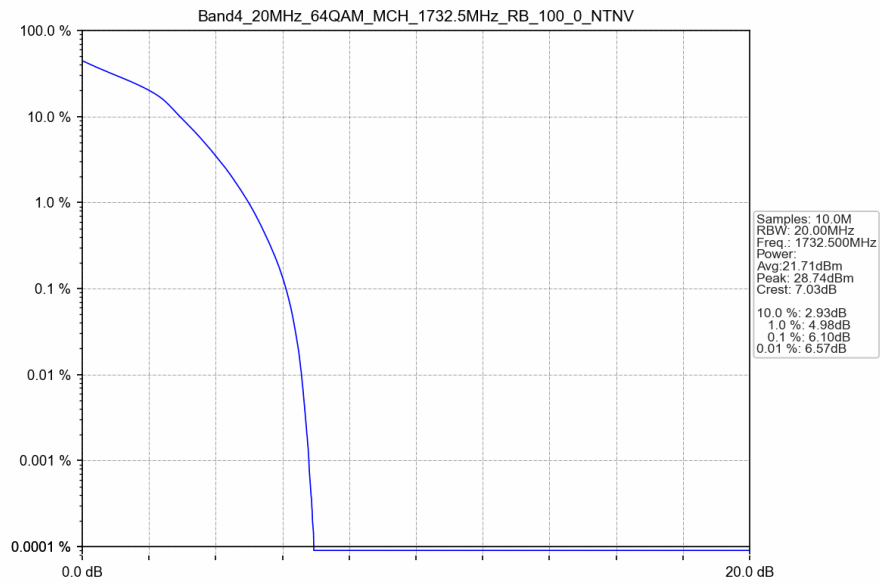
Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	5.29	<=13	Pass
16QAM	1732.5	100	0	6.12	<=13	Pass
64QAM	1732.5	100	0	6.10	<=13	Pass
256QAM	1732.5	100	0	6.68	<=13	Pass

4.2 Test Graph

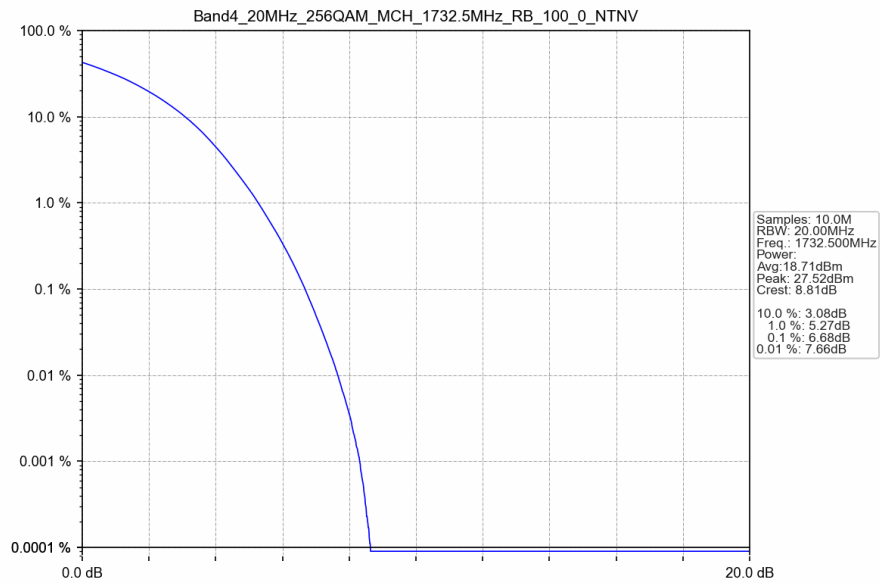
4.2.1 B4_20MHz



Band4 20MHz 64QAM MCH 1732.5MHz RB 100 0 NTN



Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTN



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 / NTNV						
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 / NTNV						
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 / NTNV						
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

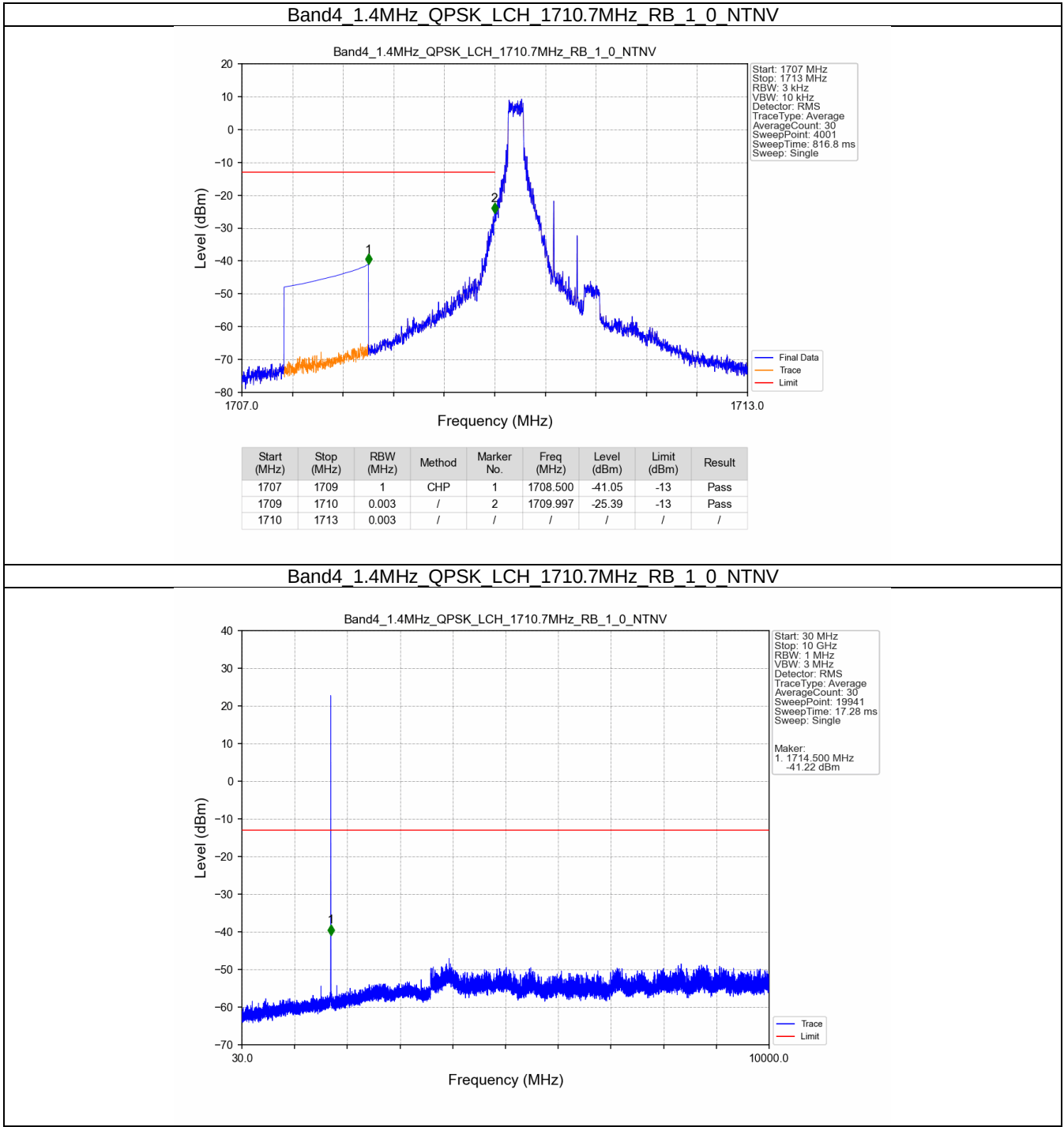
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

5.1.6 B4_20MHz

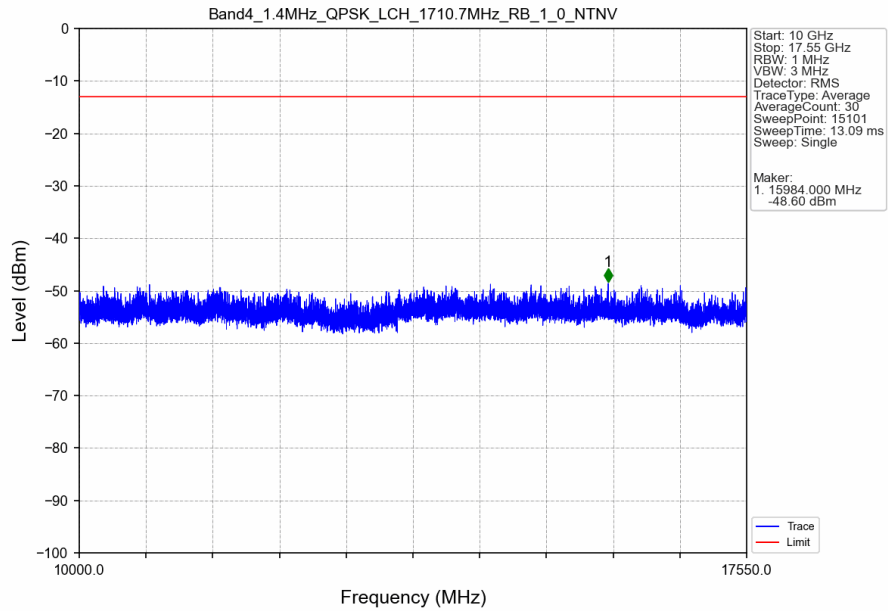
Band: 4 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1745	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

5.2 Test Graph

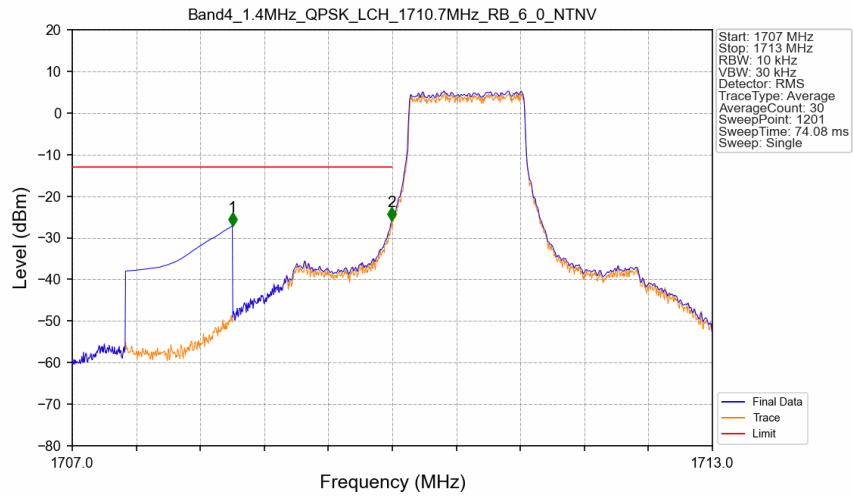
5.2.1 B4_1.4MHz



Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTNV

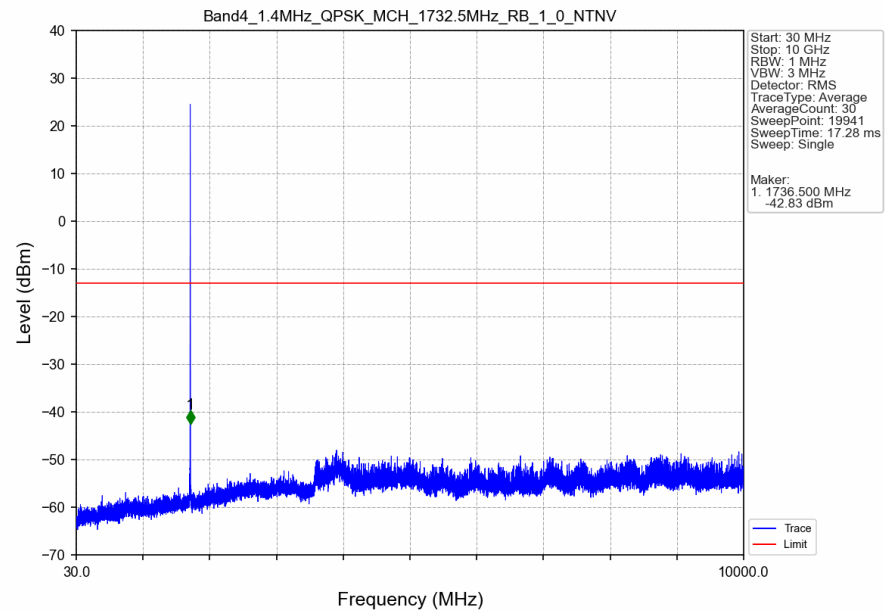


Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTNV

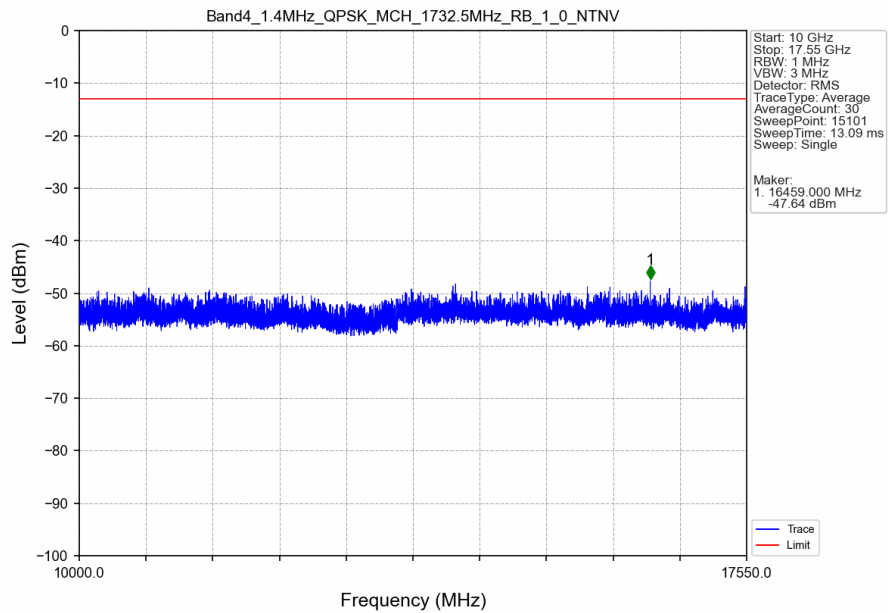


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-27.13	-13	Pass
1709	1710	0.014	CHP	2	1709.995	-25.88	-13	Pass
1710	1713	0.014	CHP	/	/	/	/	/

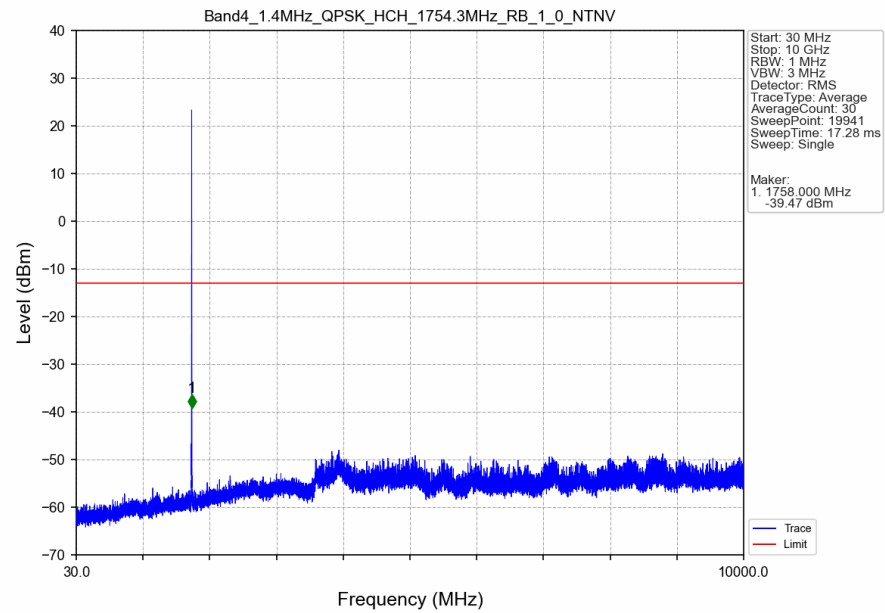
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTV



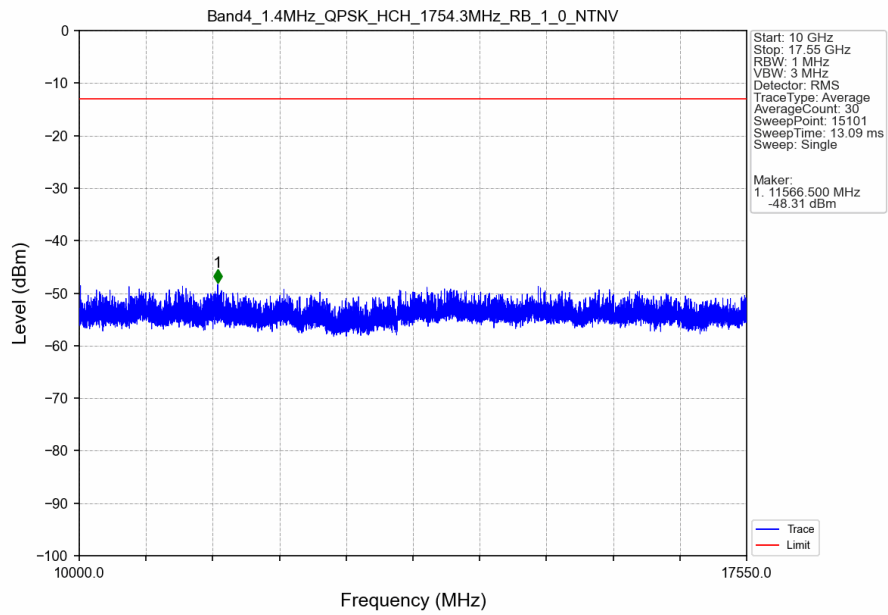
Band4 1.4MHz QPSK MCH 1732.5MHz RB 1 0 NTV



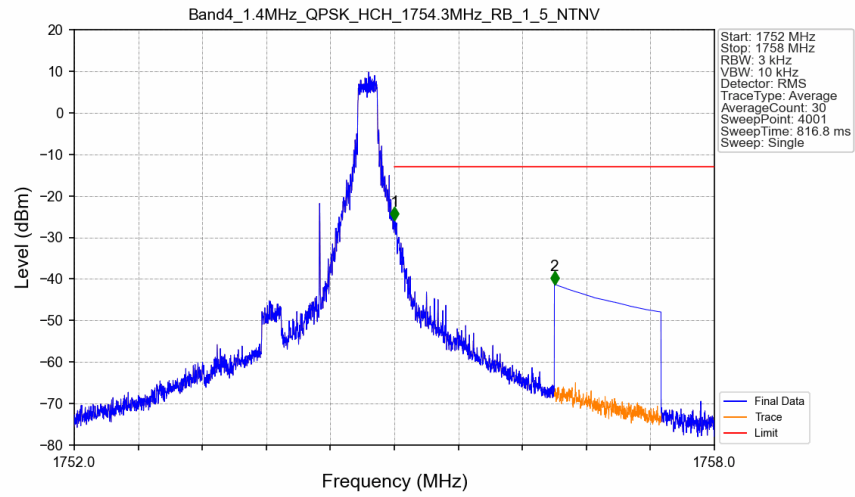
Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV



Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 0 NTNV

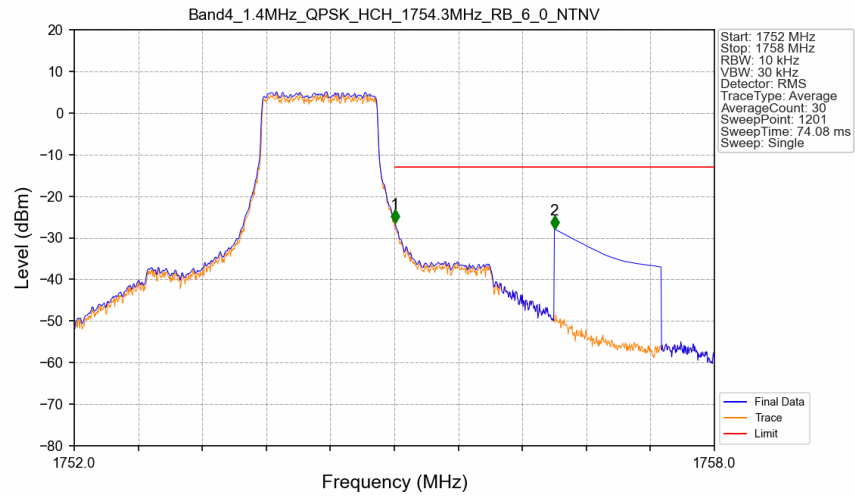


Band4 1.4MHz QPSK HCH 1754.3MHz RB 1 5 NTV



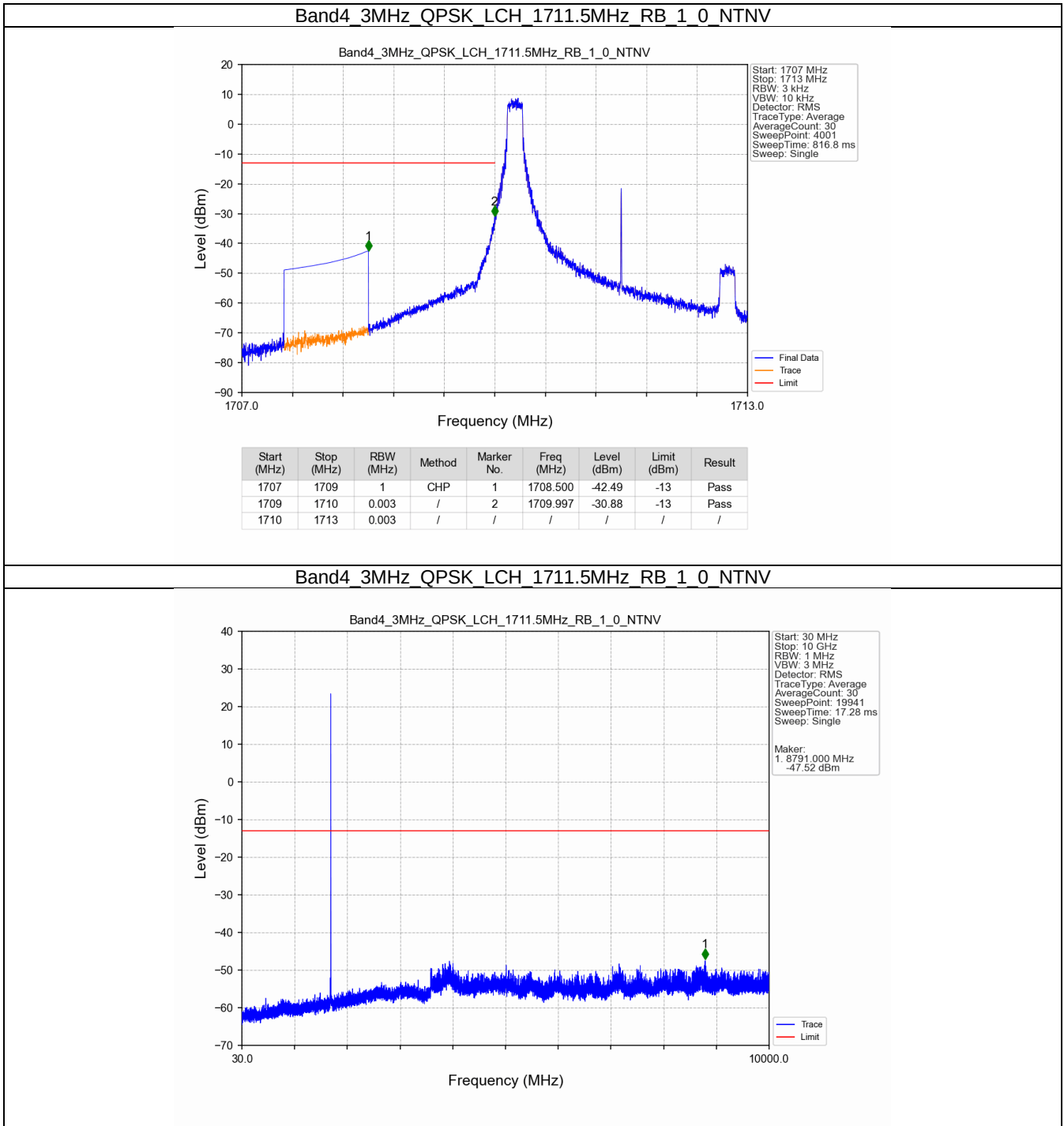
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-25.85	-13	Pass
1756	1758	1	CHP	2	1756.500	-41.25	-13	Pass

Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV

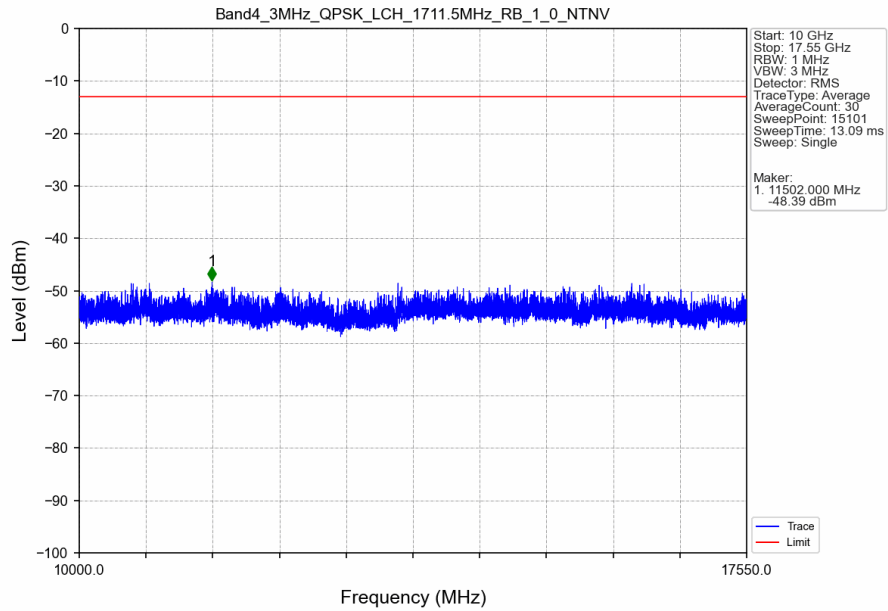


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.014	CHP	/	/	/	/	/
1755	1756	0.014	CHP	1	1755.005	-26.45	-13	Pass
1756	1758	1	CHP	2	1756.500	-27.87	-13	Pass

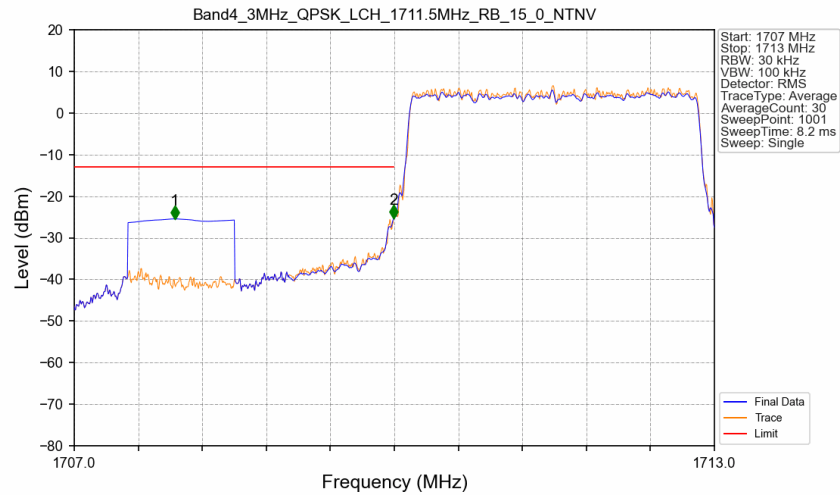
5.2.2 B4_3MHz



Band4 3MHz QPSK LCH 1711.5MHz RB 1 0 NTN

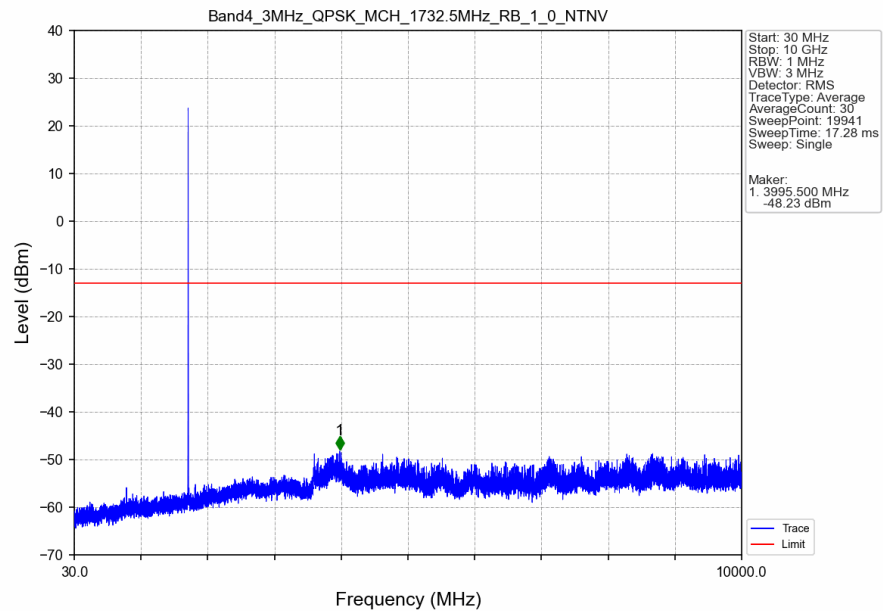


Band4 3MHz QPSK LCH 1711.5MHz RB 15 0 NTN

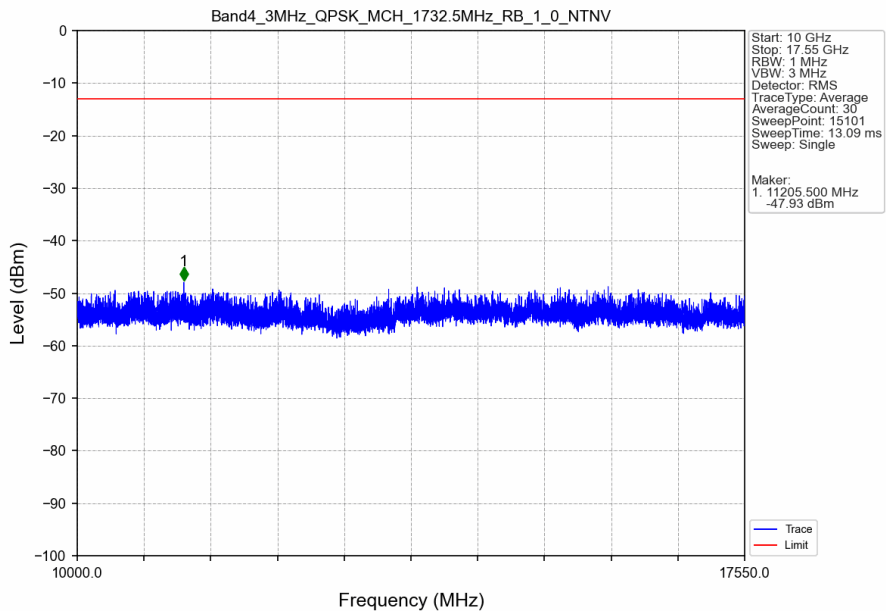


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.942	-25.45	-13	Pass
1709	1710	0.031	CHP	2	1709.994	-25.22	-13	Pass
1710	1713	0.031	CHP	/	/	/	/	/

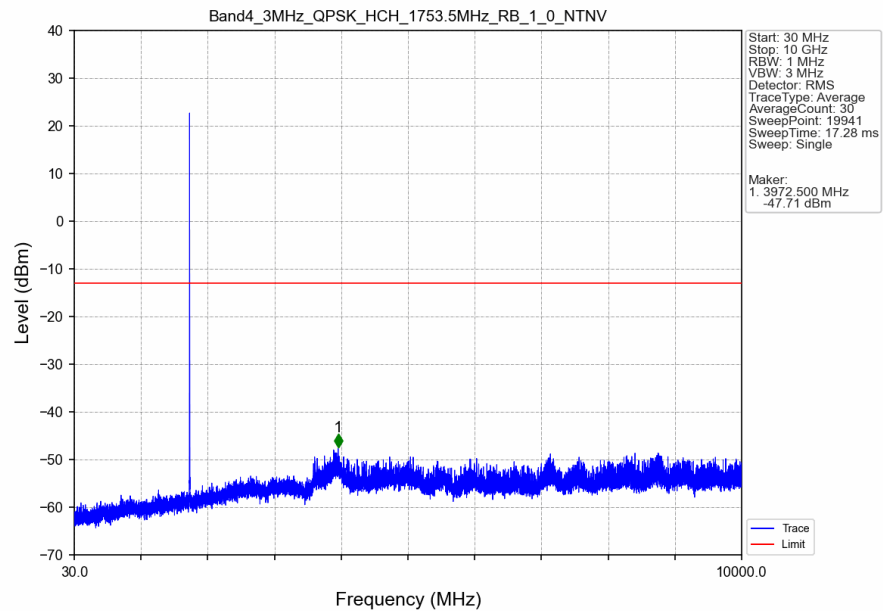
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



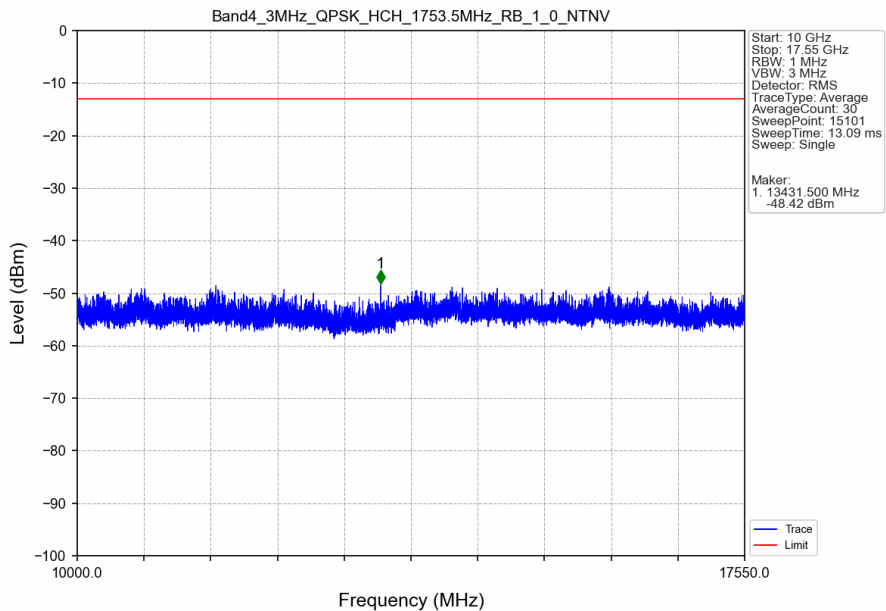
Band4 3MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



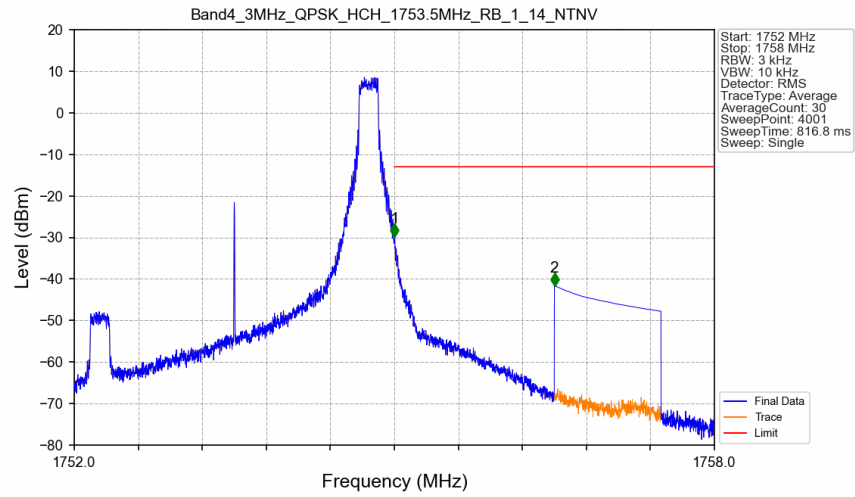
Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV



Band4 3MHz QPSK HCH 1753.5MHz RB 1 0 NTNV

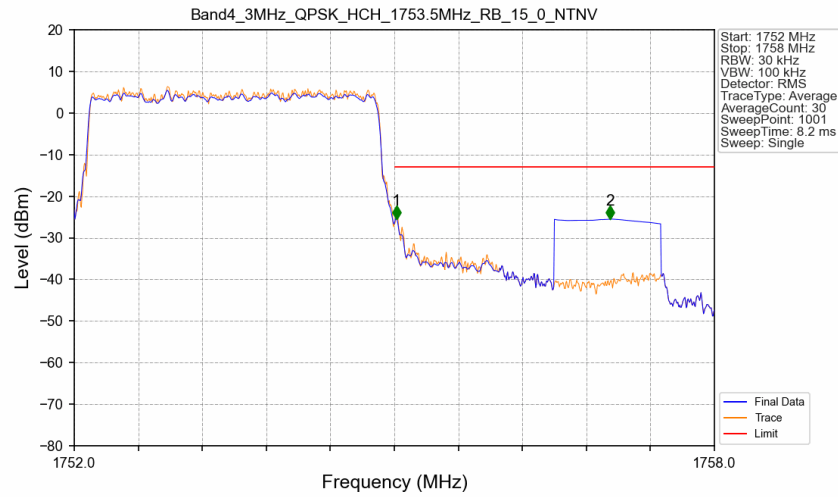


Band4 3MHz QPSK HCH 1753.5MHz RB 1 14 NTNV



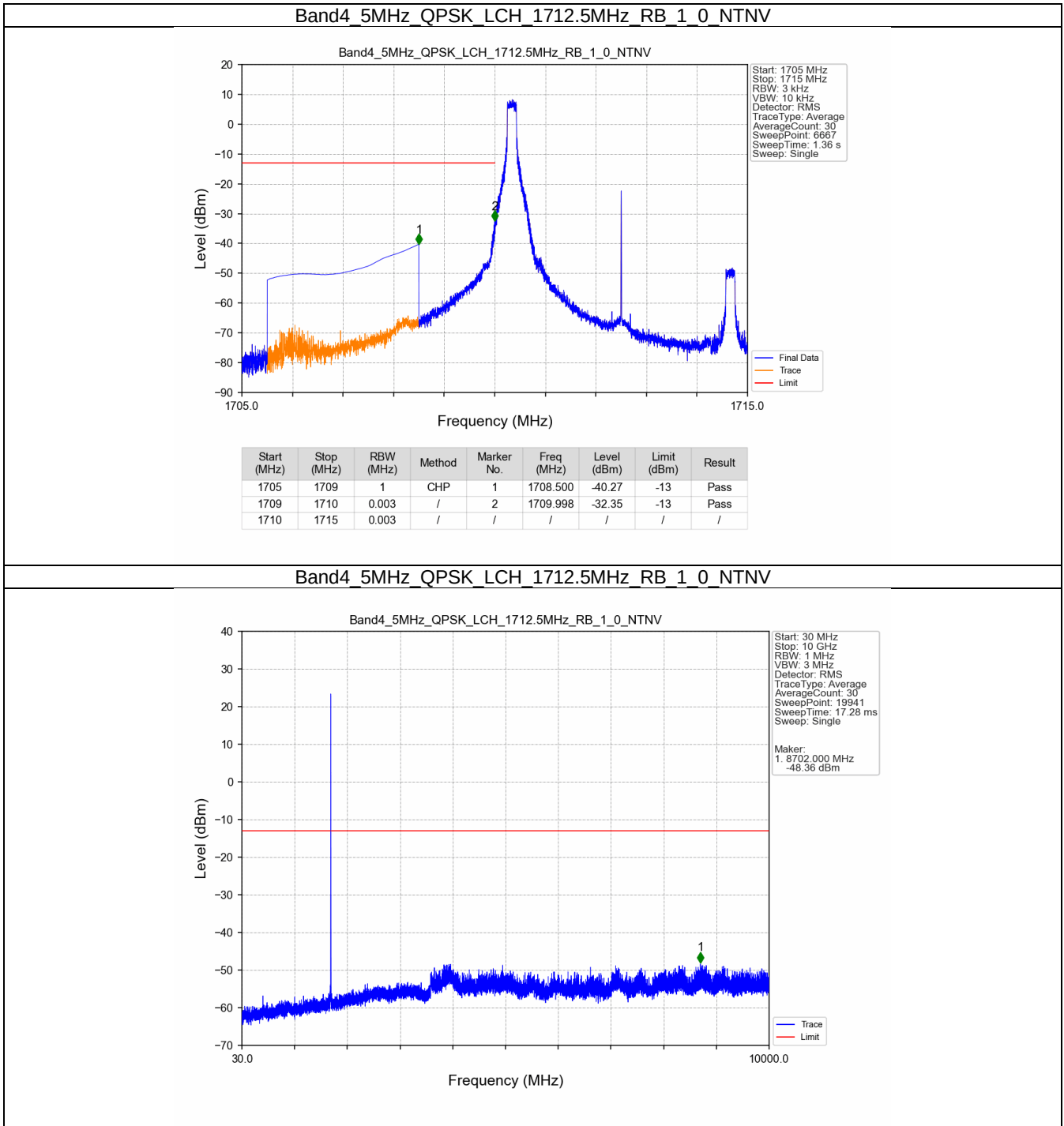
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.003	-29.82	-13	Pass
1756	1758	1	CHP	2	1756.500	-41.61	-13	Pass

Band4 3MHz QPSK HCH 1753.5MHz RB 15 0 NTNV

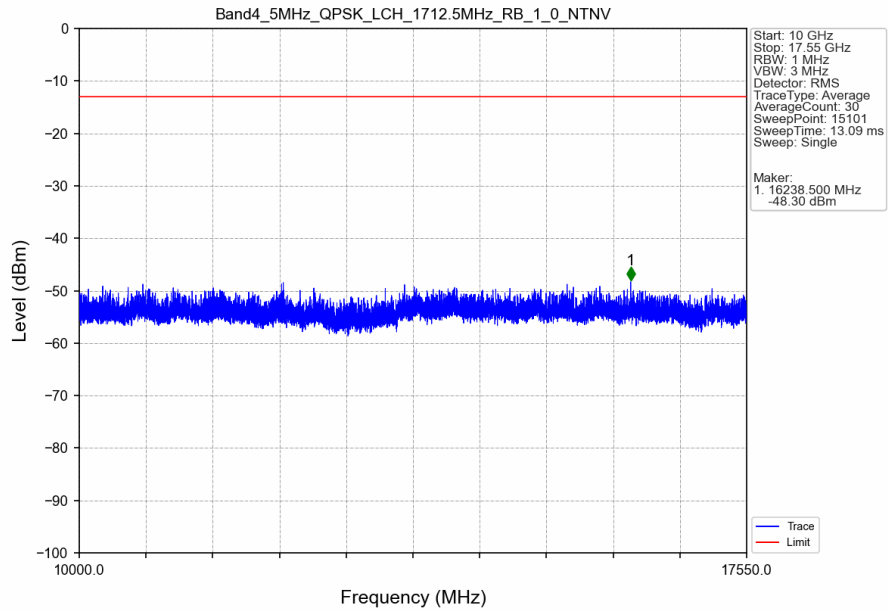


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.031	CHP	/	/	/	/	/
1755	1756	0.031	CHP	1	1755.018	-25.42	-13	Pass
1756	1758	1	CHP	2	1757.022	-25.51	-13	Pass

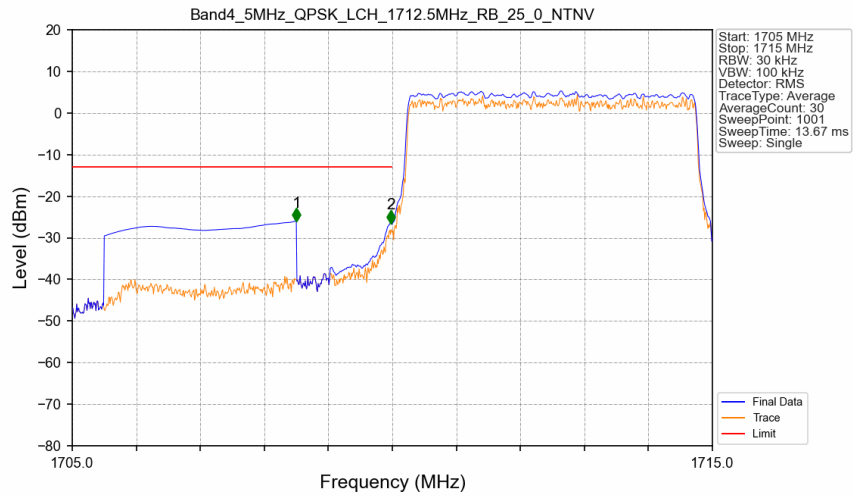
5.2.3 B4_5MHz



Band4 5MHz QPSK LCH 1712.5MHz RB 1 0 NTN

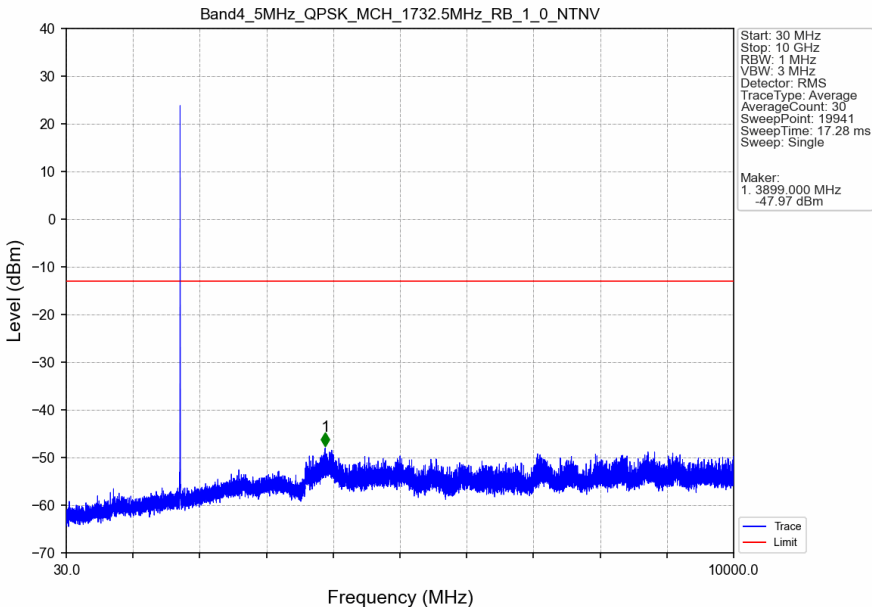


Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTN

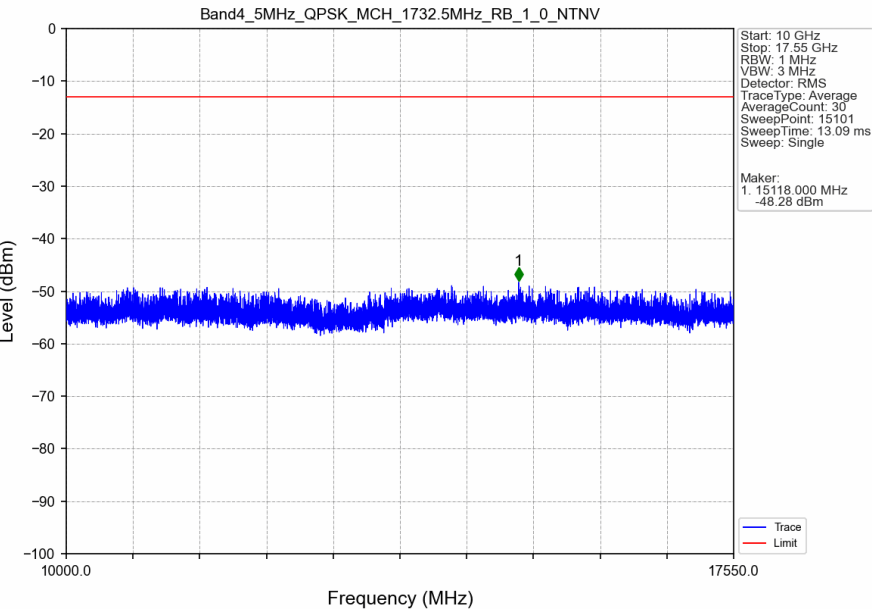


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-25.99	-13	Pass
1709	1710	0.053	CHP	2	1709.980	-26.48	-13	Pass
1710	1715	0.053	CHP	/	/	/	/	/

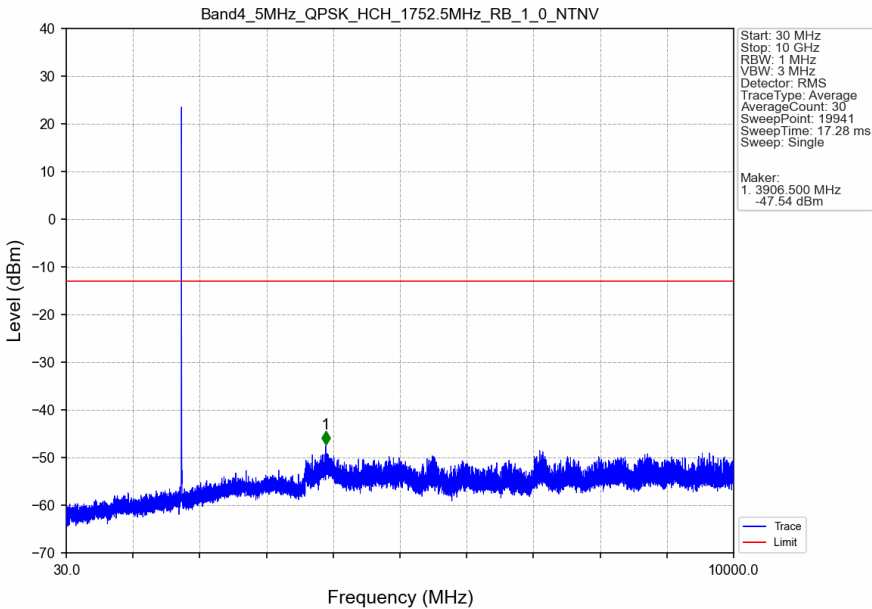
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



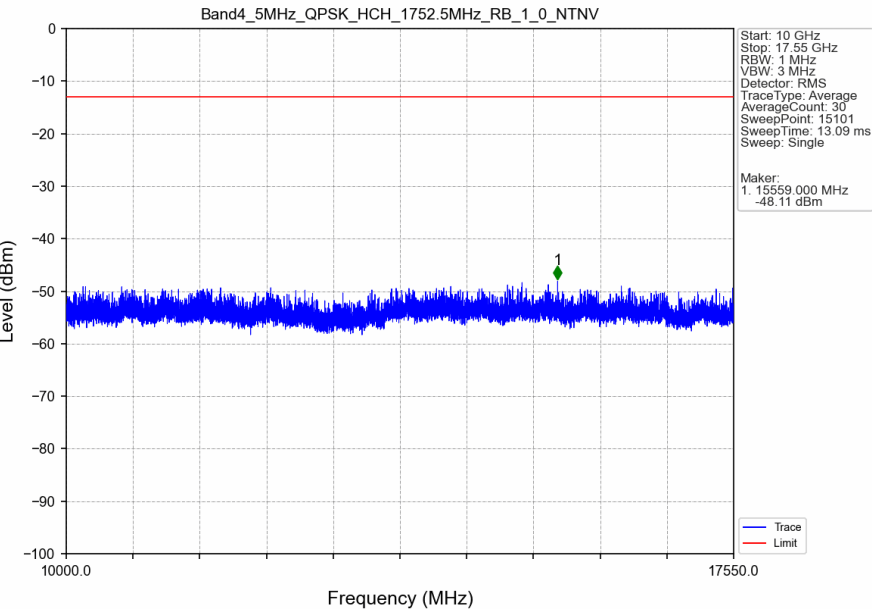
Band4 5MHz QPSK MCH 1732.5MHz RB 1 0 NTN



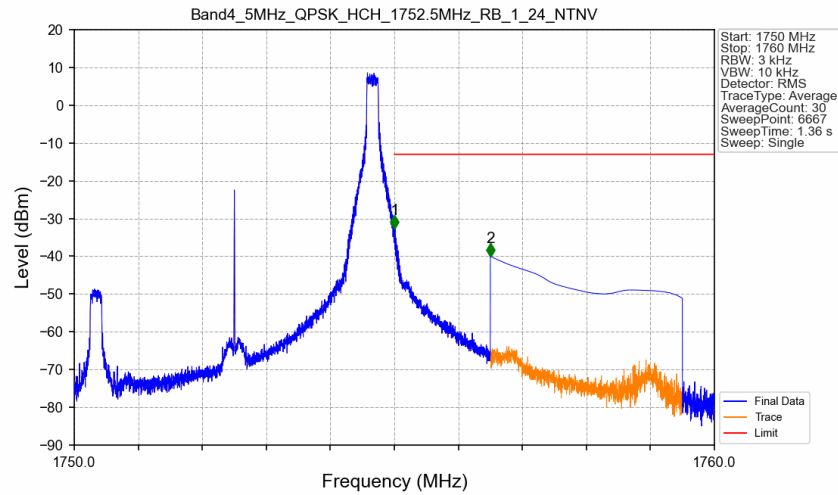
Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN



Band4 5MHz QPSK HCH 1752.5MHz RB 1 0 NTN

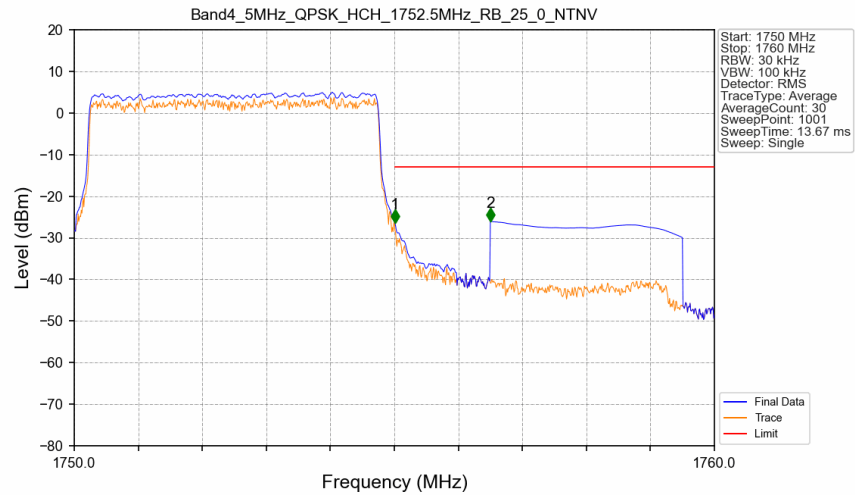


Band4 5MHz QPSK HCH 1752.5MHz RB 1 24 NTV



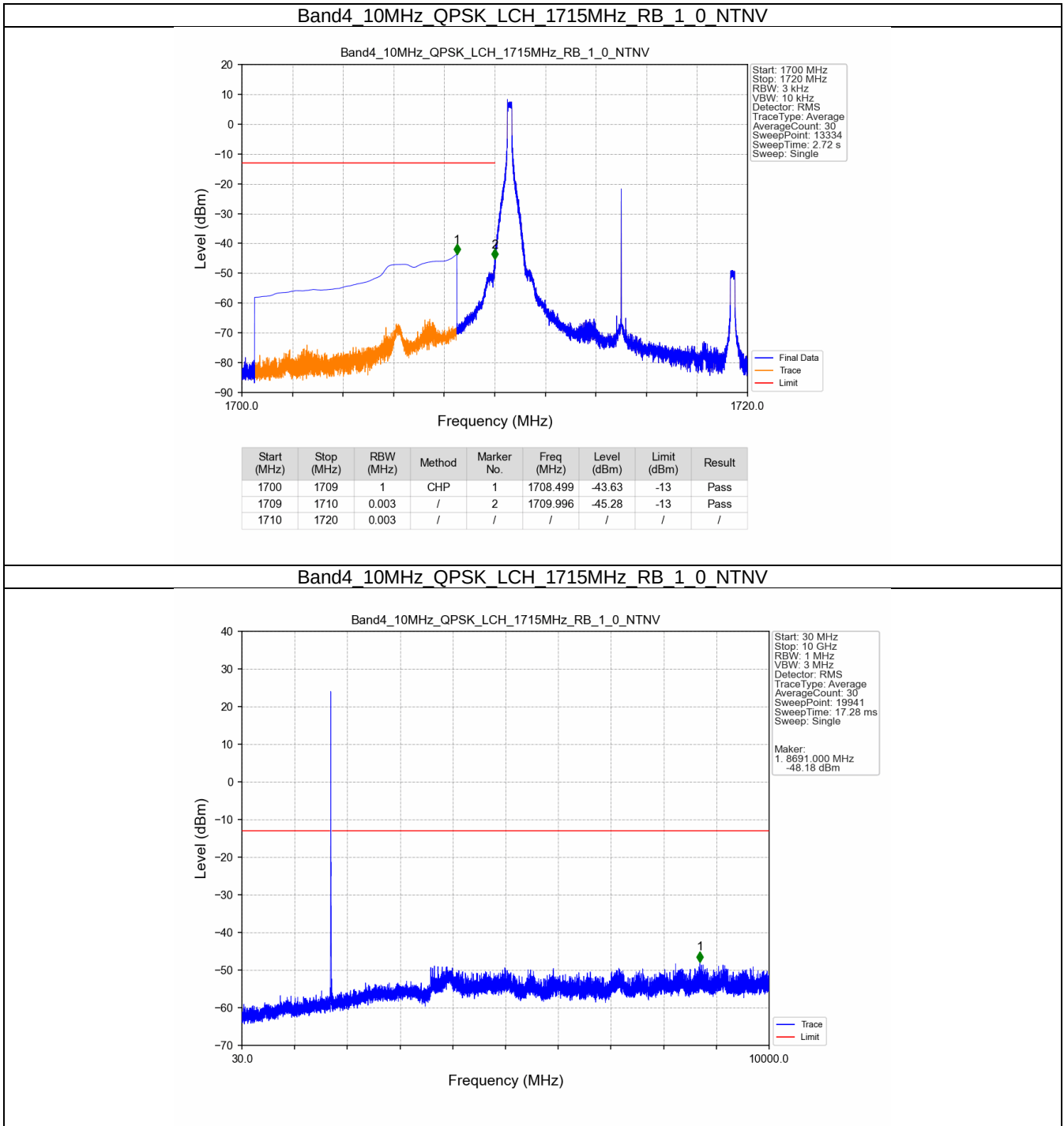
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-32.70	-13	Pass
1756	1760	1	CHP	2	1756.500	-40.00	-13	Pass

Band4 5MHz QPSK HCH 1752.5MHz RB 25 0 NTV

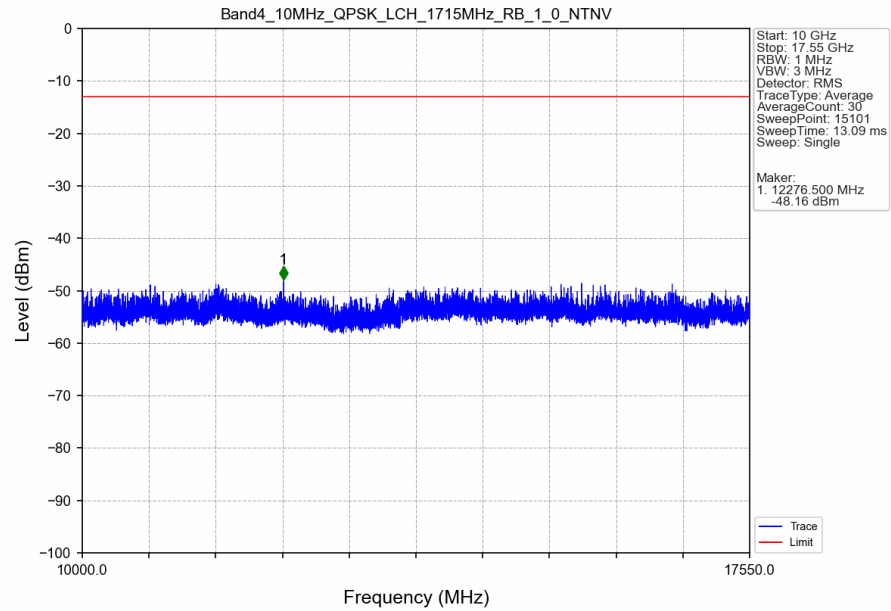


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.053	CHP	/	/	/	/	/
1755	1756	0.053	CHP	1	1755.010	-26.43	-13	Pass
1756	1760	1	CHP	2	1756.500	-26.02	-13	Pass

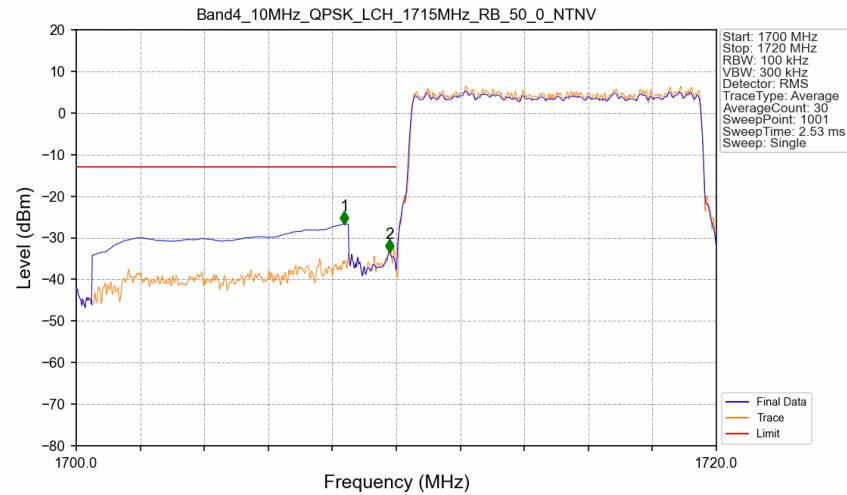
5.2.4 B4_10MHz



Band4 10MHz QPSK LCH 1715MHz RB 1 0 NTNV

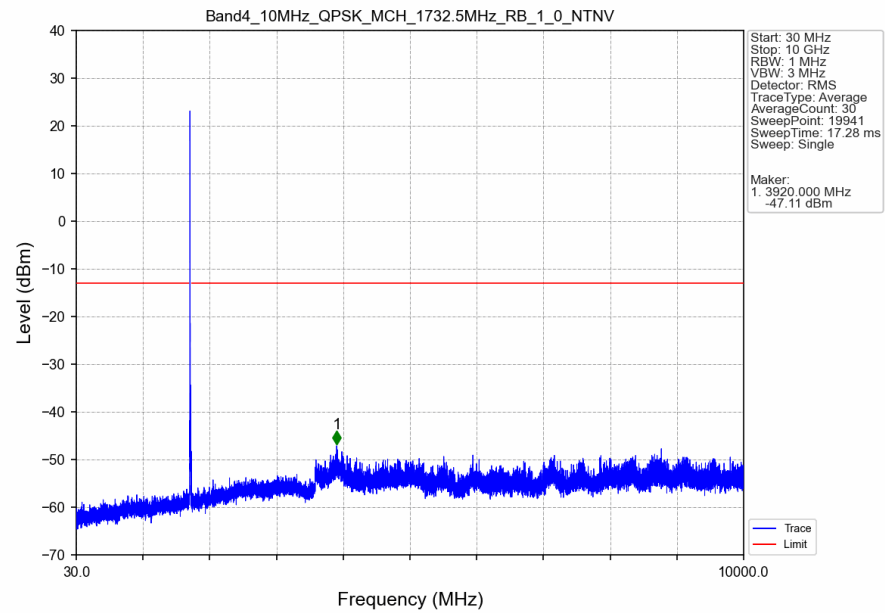


Band4 10MHz QPSK LCH 1715MHz RB 50 0 NTNV

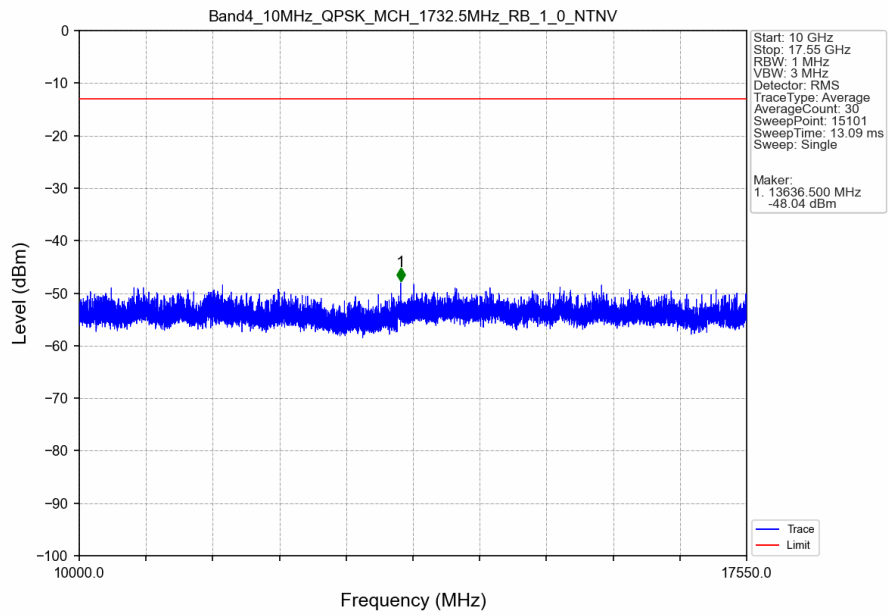


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.380	-26.69	-13	Pass
1709	1710	0.102	CHP	2	1709.780	-33.53	-13	Pass
1710	1720	0.102	CHP	/	/	/	/	/

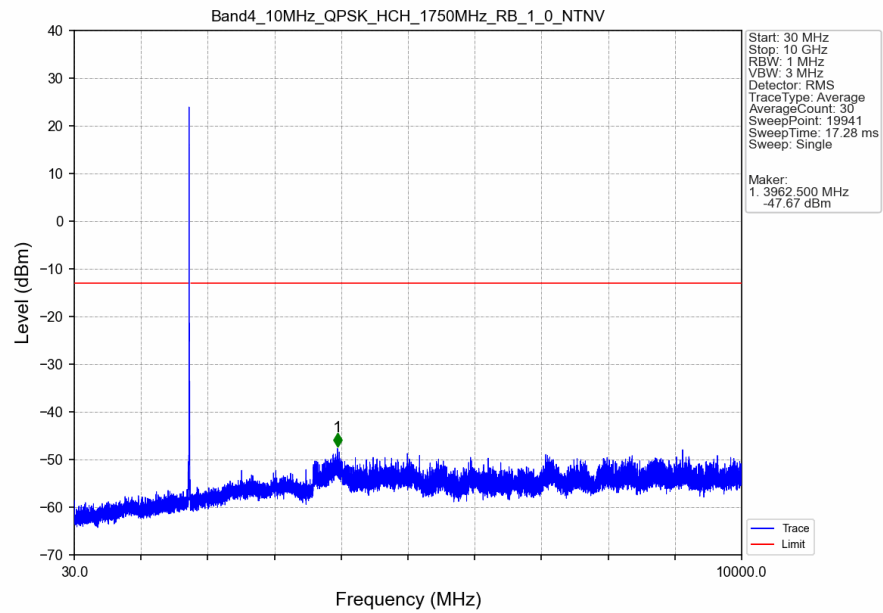
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



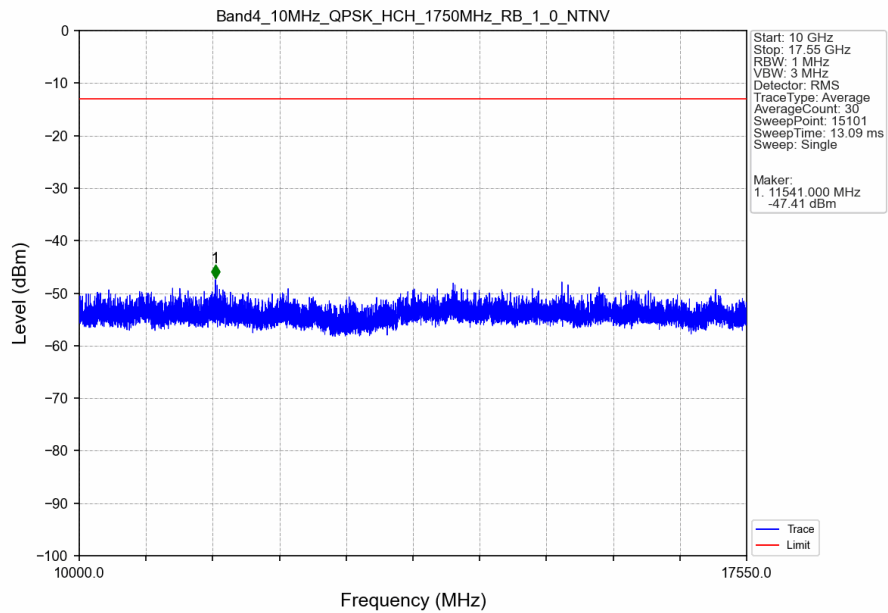
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



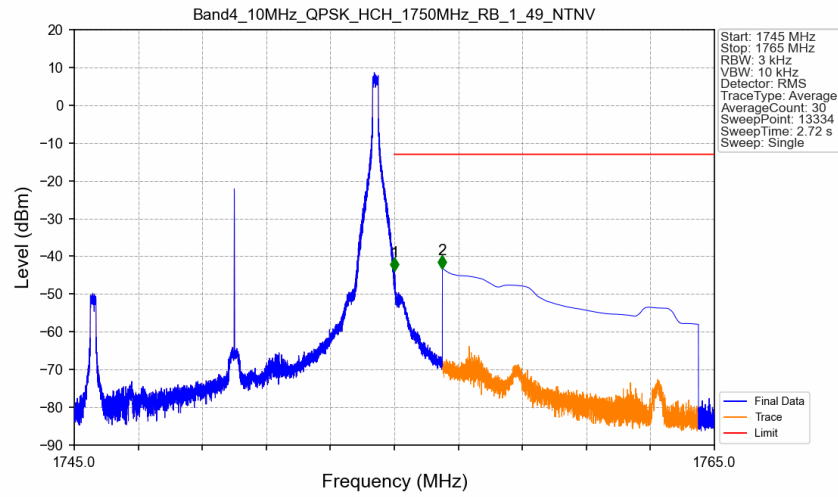
Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN



Band4 10MHz QPSK HCH 1750MHz RB 1 0 NTN

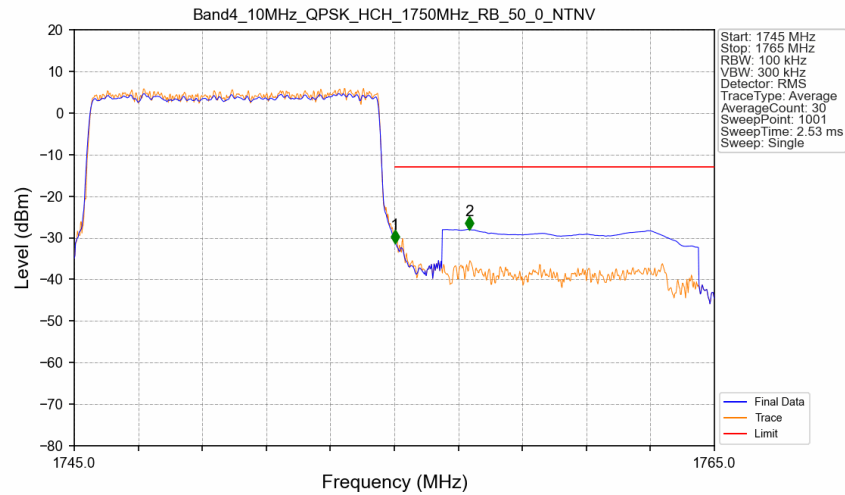


Band4 10MHz QPSK HCH 1750MHz RB 1 49 NTV



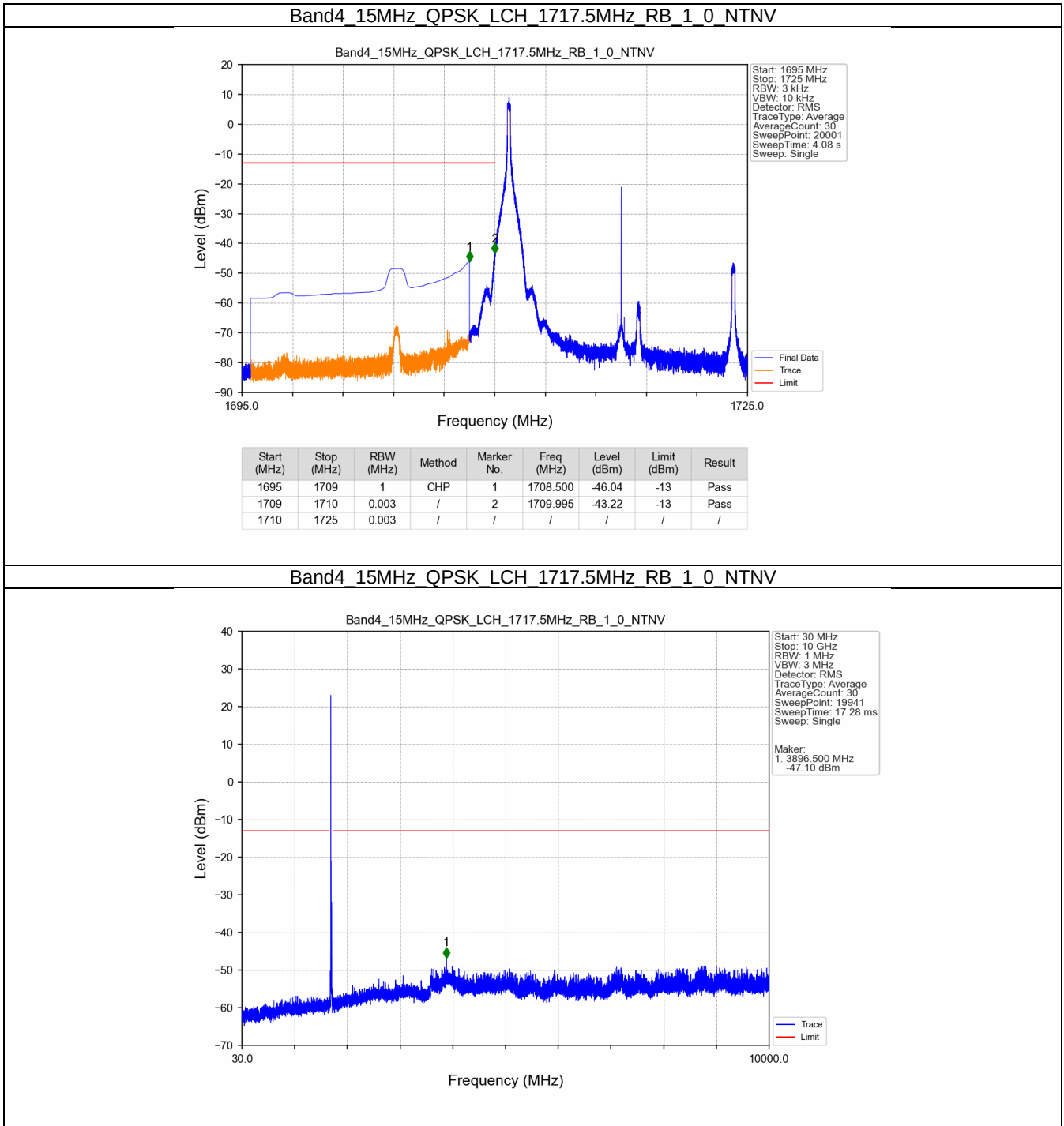
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-43.93	-13	Pass
1756	1765	1	CHP	2	1756.501	-43.18	-13	Pass

Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTV

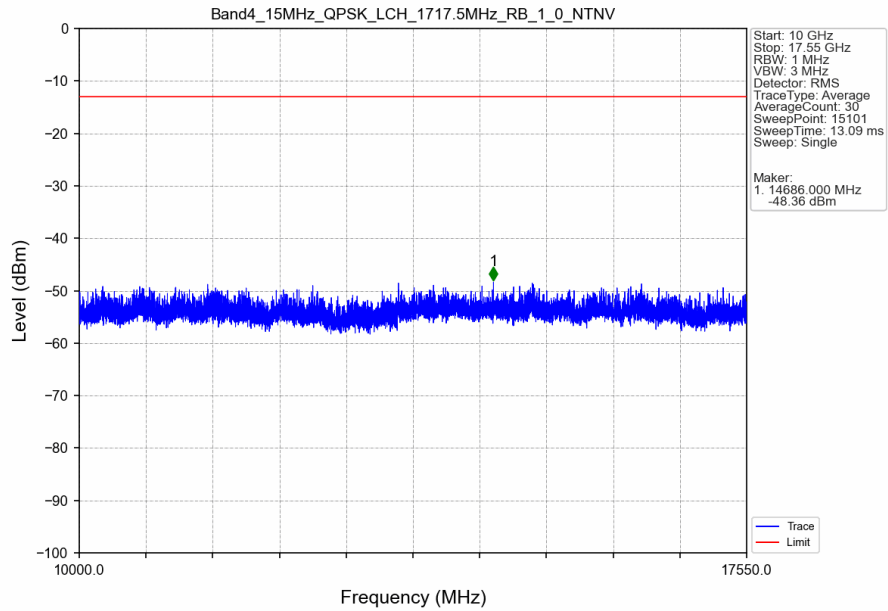


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.102	CHP	/	/	/	/	/
1755	1756	0.102	CHP	1	1755.020	-31.24	-13	Pass
1756	1765	1	CHP	2	1757.340	-27.97	-13	Pass

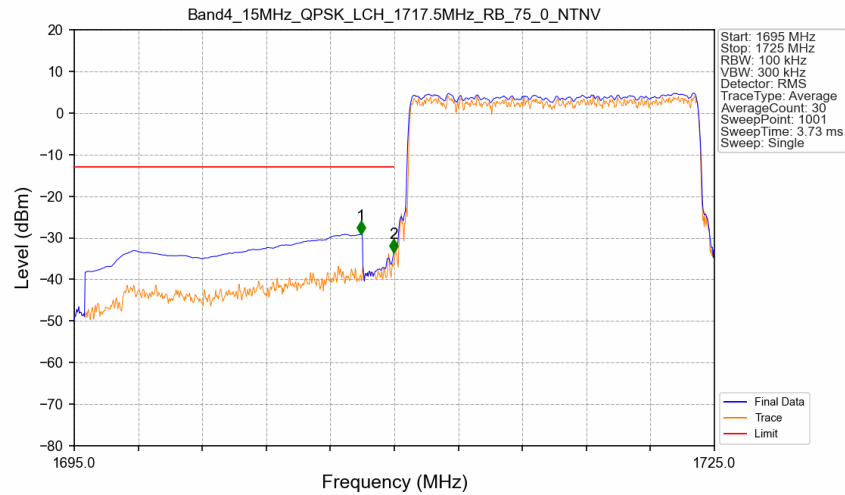
5.2.5 B4_15MHz



Band4 15MHz QPSK LCH 1717.5MHz RB 1 0 NTV

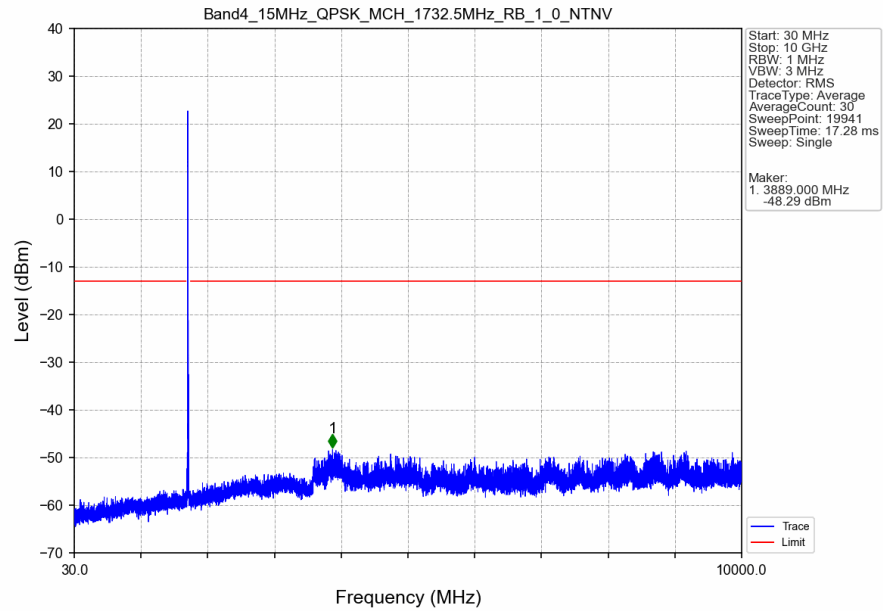


Band4 15MHz QPSK LCH 1717.5MHz RB 75 0 NTV

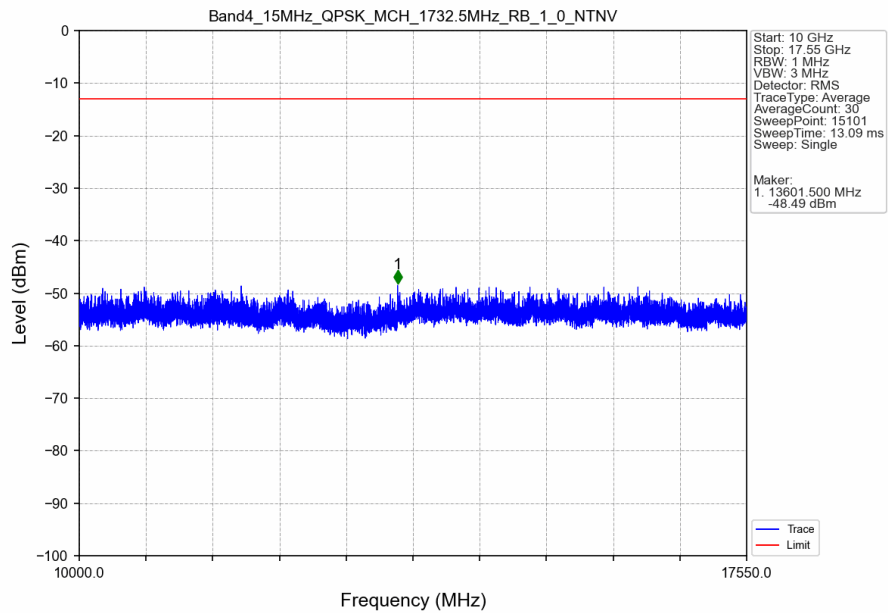


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.440	-29.15	-13	Pass
1709	1710	0.151	CHP	2	1709.970	-33.50	-13	Pass
1710	1725	0.151	CHP	/	/	/	/	/

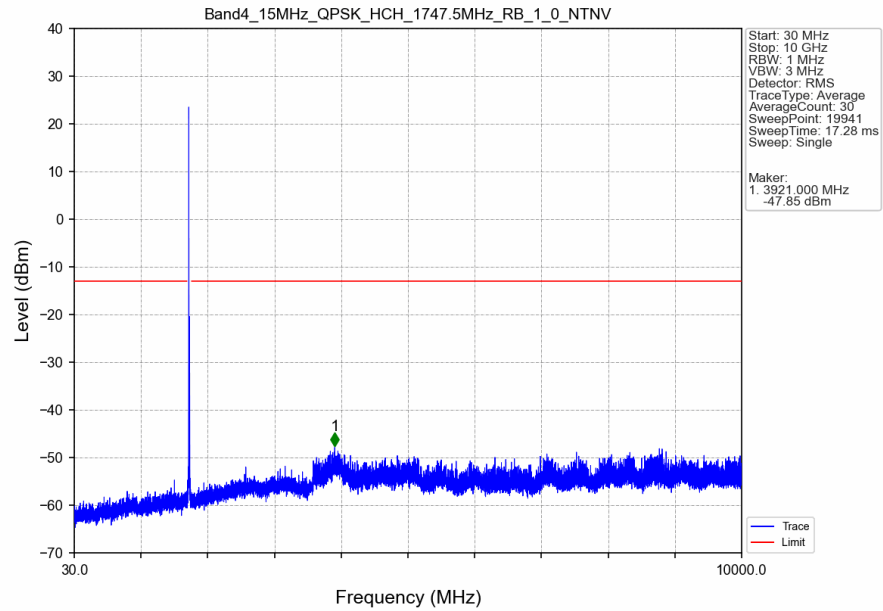
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



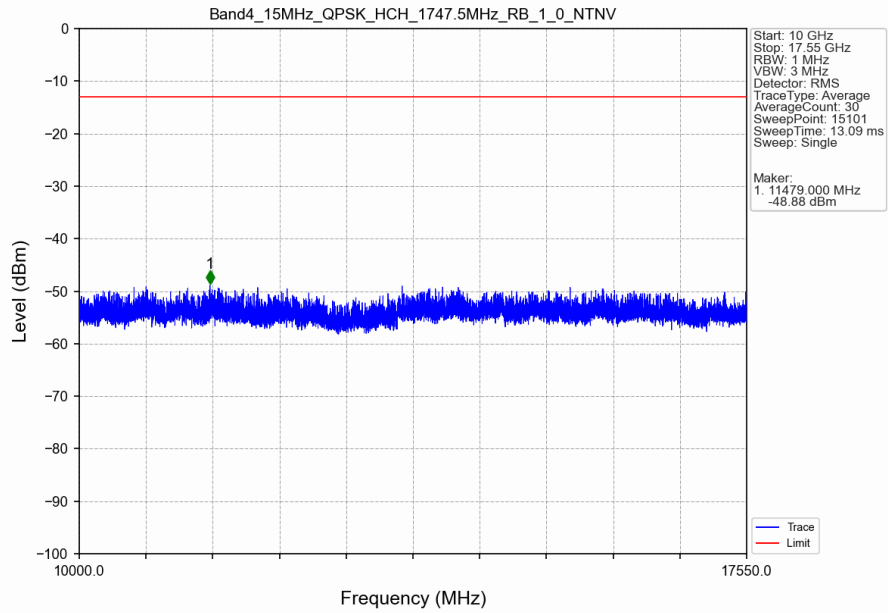
Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



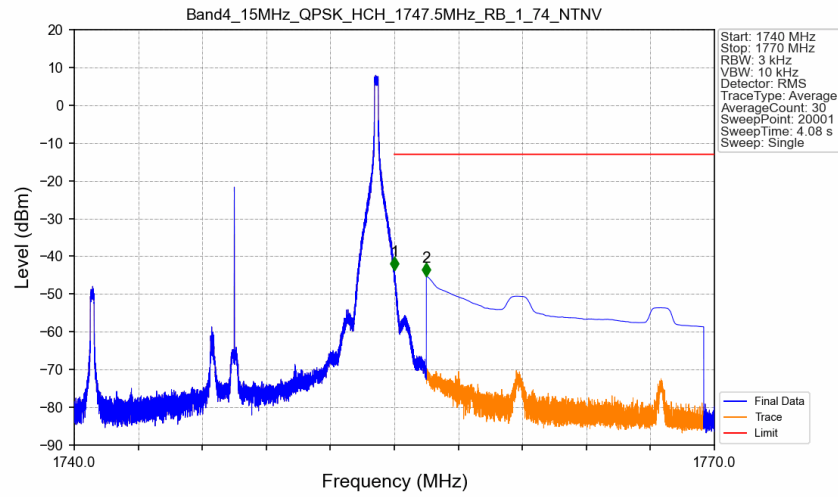
Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV

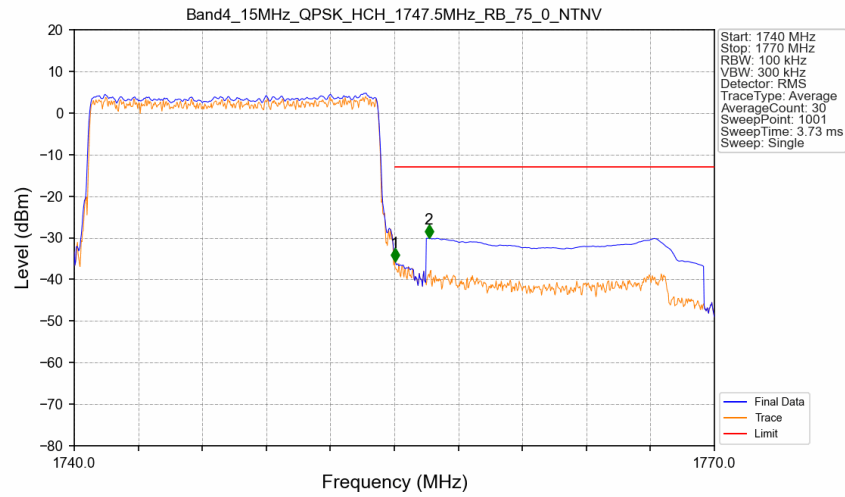


Band4 15MHz QPSK HCH 1747.5MHz RB 1 74 NTV



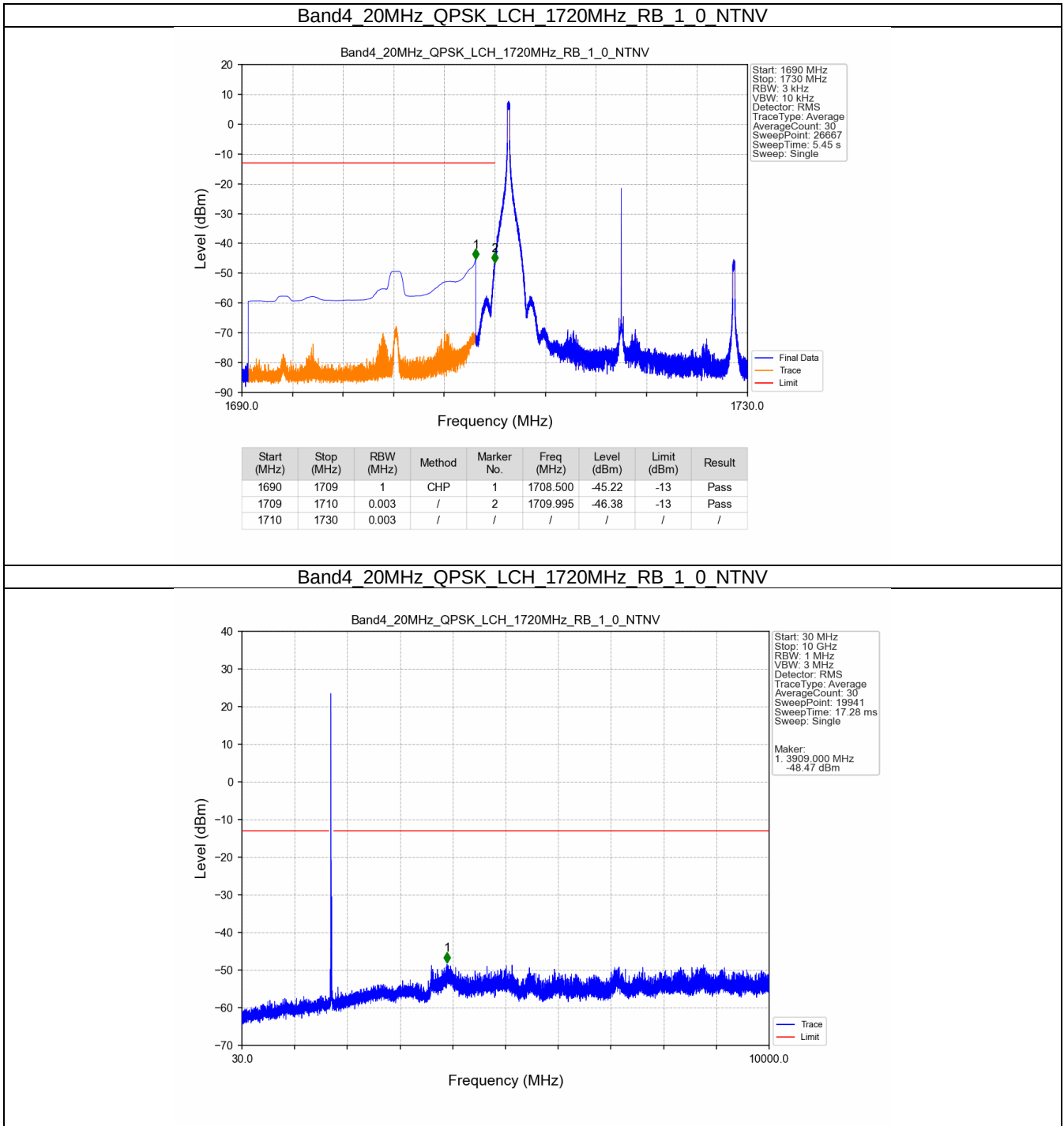
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.006	-43.58	-13	Pass
1756	1770	1	CHP	2	1756.500	-45.23	-13	Pass

Band4 15MHz QPSK HCH 1747.5MHz RB 75 0 NTV

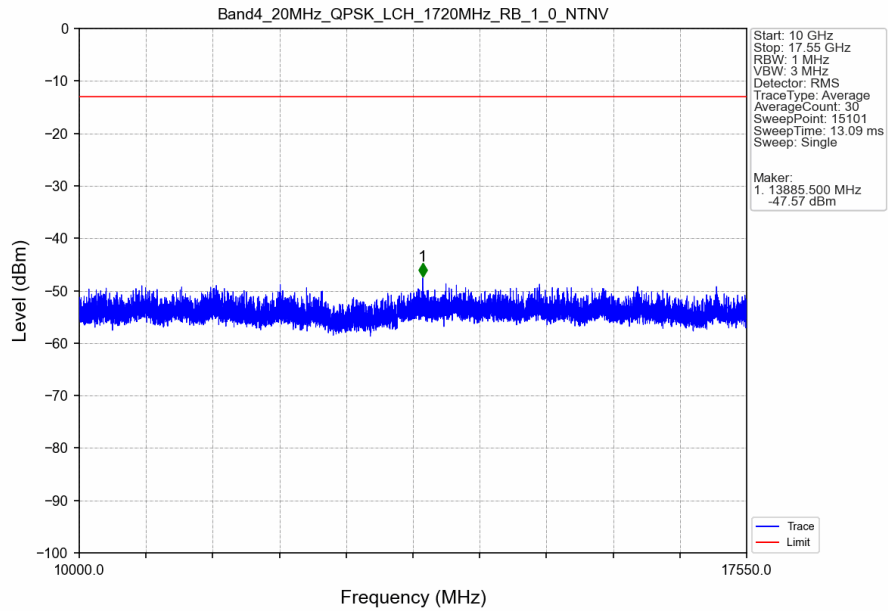


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.151	CHP	/	/	/	/	/
1755	1756	0.151	CHP	1	1755.030	-35.64	-13	Pass
1756	1770	1	CHP	2	1756.620	-30.10	-13	Pass

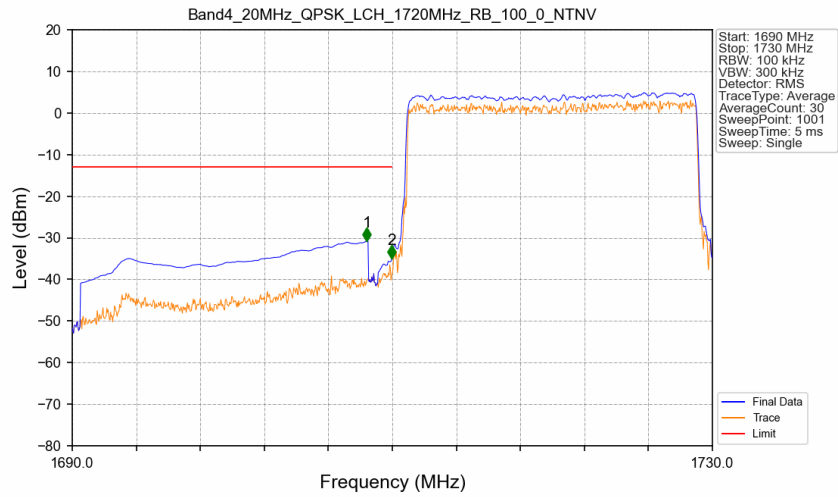
5.2.6 B4_20MHz



Band4 20MHz QPSK LCH 1720MHz RB 1 0 NTN

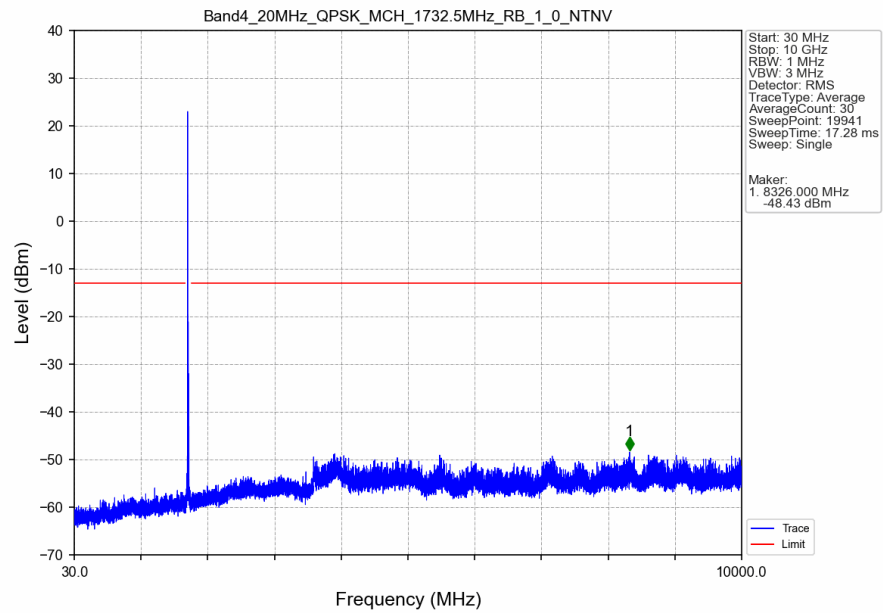


Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0 NTN

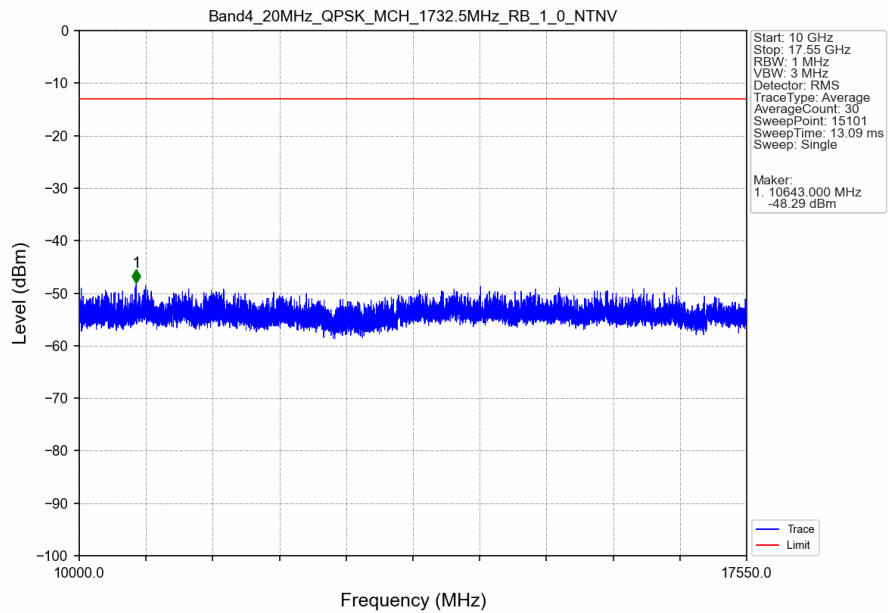


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.400	-30.84	-13	Pass
1709	1710	0.201	CHP	2	1709.960	-35.01	-13	Pass
1710	1730	0.201	CHP	/	/	/	/	/

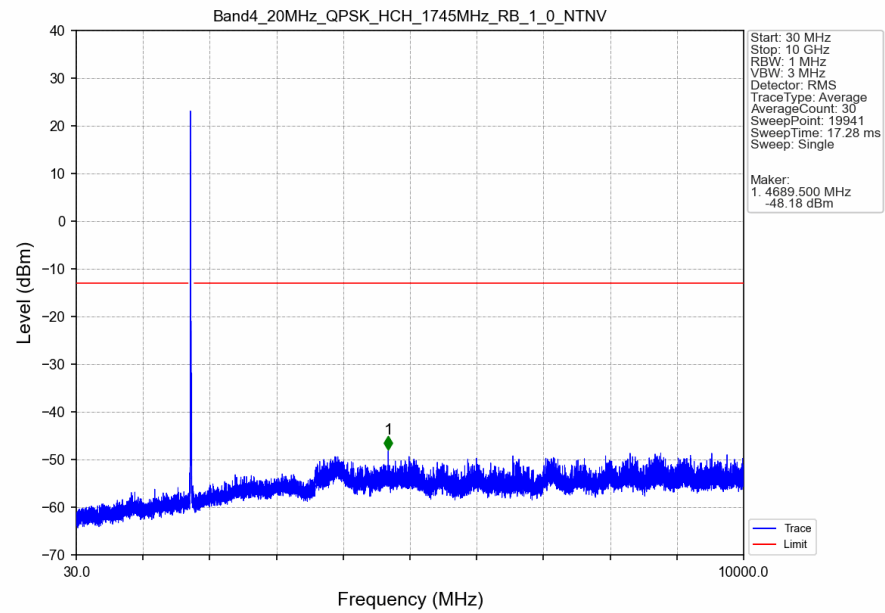
Band4 20MHz QPSK MCH 1732.5MHz RB 1 0 NTNV



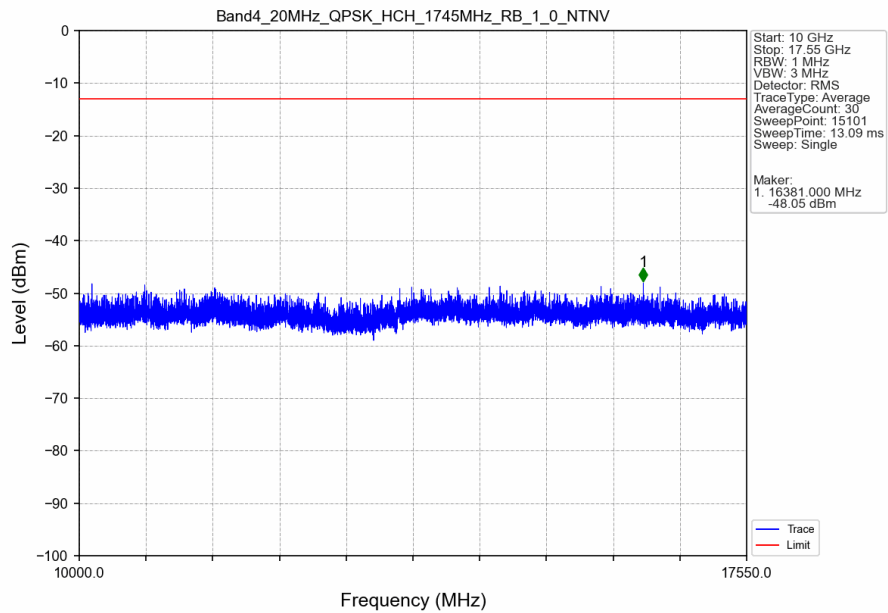
Band4 20MHz QPSK MCH 1732.5MHz_RB 1 0 NTNV



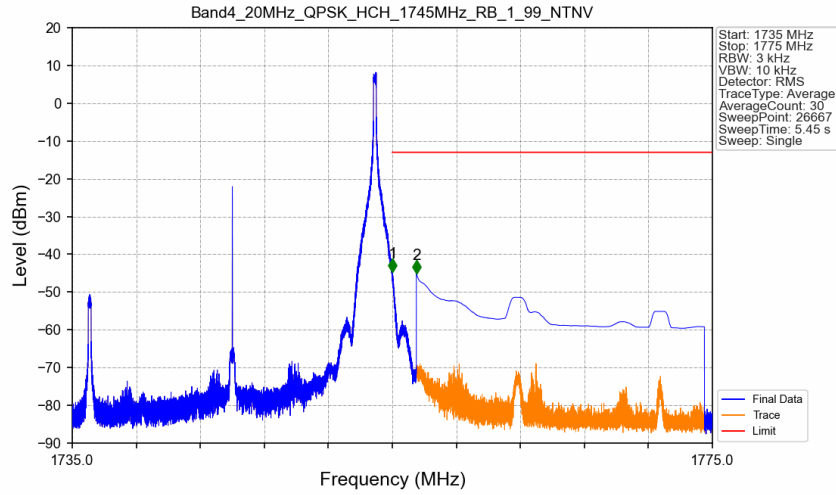
Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTN



Band4 20MHz QPSK HCH 1745MHz RB 1 0 NTN

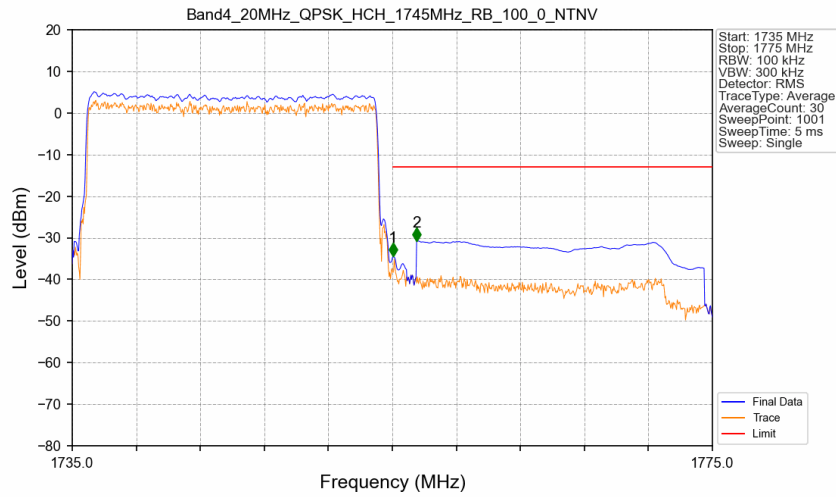


Band4 20MHz QPSK HCH 1745MHz RB 1 99 NTV



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	-44.69	-13	Pass
1756	1775	1	CHP	2	1756.500	-45.07	-13	Pass

Band4 20MHz QPSK HCH 1745MHz RB 100 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.201	CHP	/	/	/	/	/
1755	1756	0.201	CHP	1	1755.040	-34.49	-13	Pass
1756	1775	1	CHP	2	1756.520	-30.72	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 4 ANT41-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-66.78	-13	-53.78	-71.4	3.36	7.98	Horizontal	Pass
5133.0	-54.73	-13	-41.73	-60.34	4.61	10.22	Horizontal	Pass
6844.0	-60.93	-13	-47.93	-66.96	4.9	10.93	Horizontal	Pass
3422.0	-66.4	-13	-53.4	-71.02	3.36	7.98	Vertical	Pass
5133.0	-58.91	-13	-45.91	-64.52	4.61	10.22	Vertical	Pass
6844.0	-60.87	-13	-47.87	-66.9	4.9	10.93	Vertical	Pass

LTE Band 4 ANT41-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-66.4	-13	-53.4	-71.07	3.37	8.04	Horizontal	Pass
5170.5	-55.72	-13	-42.72	-61.35	4.62	10.25	Horizontal	Pass
6894.0	-61.38	-13	-48.38	-67.47	4.9	10.99	Horizontal	Pass
3447.0	-66.37	-13	-53.37	-71.04	3.37	8.04	Vertical	Pass
5170.5	-59.09	-13	-46.09	-64.72	4.62	10.25	Vertical	Pass
6894.0	-61.45	-13	-48.45	-67.54	4.9	10.99	Vertical	Pass

LTE Band 4 ANT41-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-67.12	-13	-54.12	-71.83	3.39	8.1	Horizontal	Pass
5208.0	-56.54	-13	-43.54	-62.17	4.64	10.27	Horizontal	Pass
6944.0	-60.81	-13	-47.81	-66.96	4.91	11.06	Horizontal	Pass
3472.0	-66.54	-13	-53.54	-71.25	3.39	8.1	Vertical	Pass
5208.0	-59.5	-13	-46.5	-65.13	4.64	10.27	Vertical	Pass
6944.0	-60.89	-13	-47.89	-67.04	4.91	11.06	Vertical	Pass