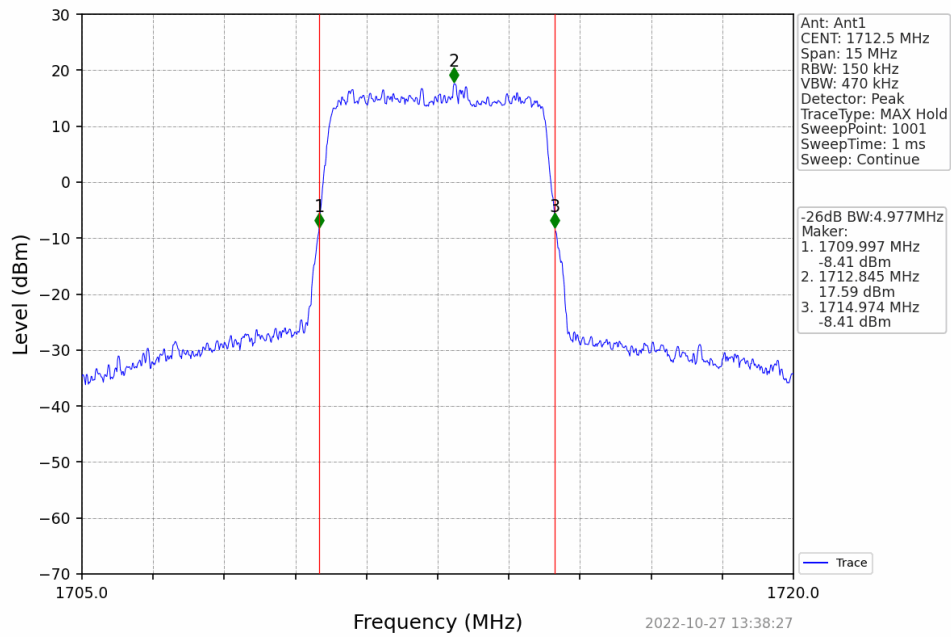
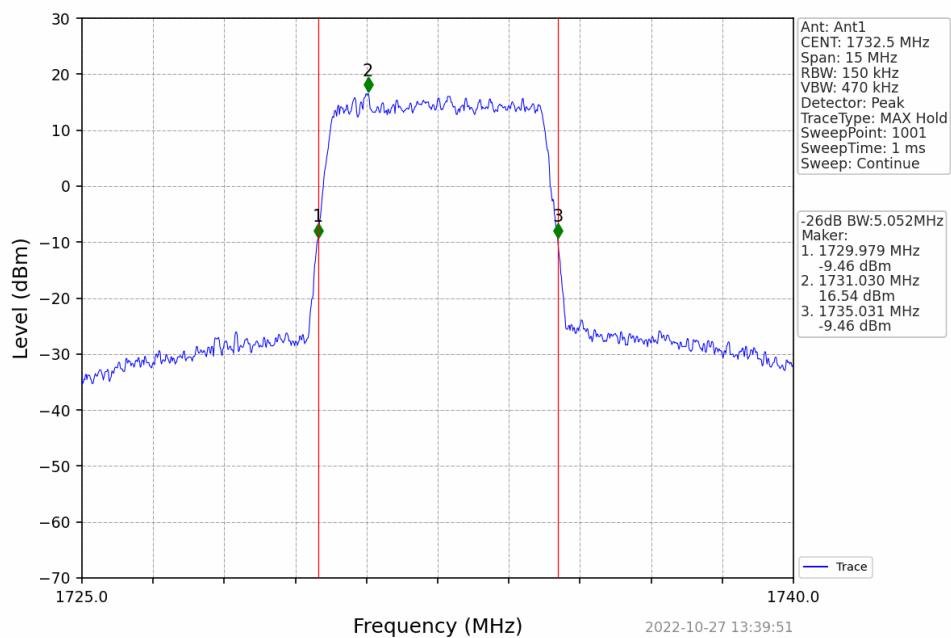




Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV

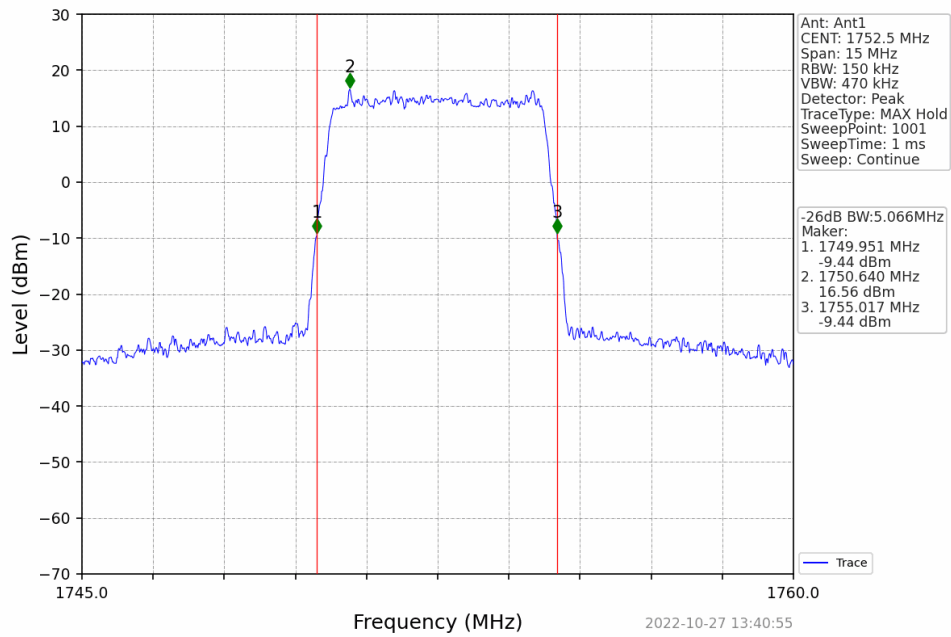


Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV

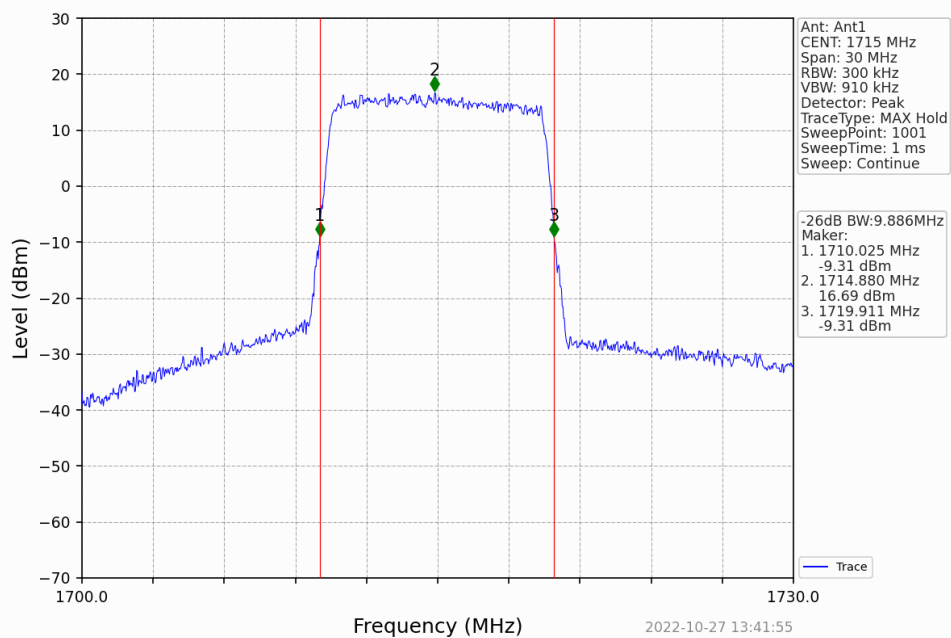




Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV

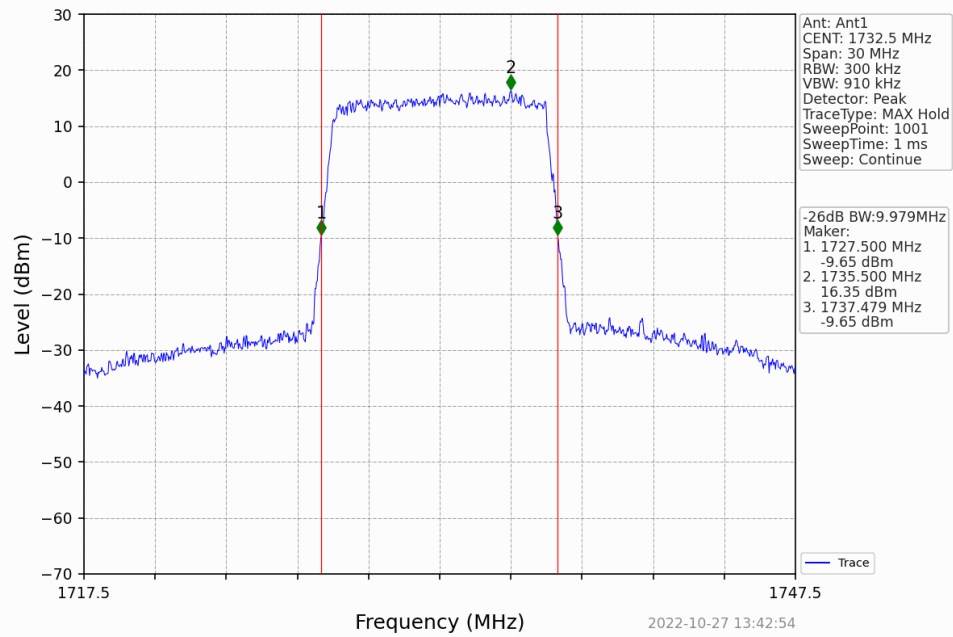


Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV

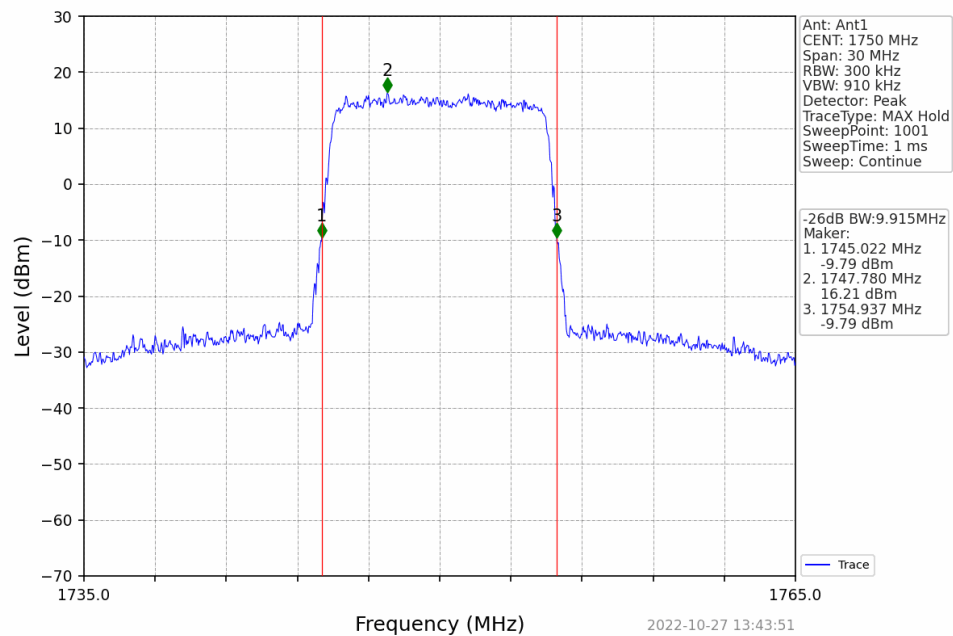




Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV

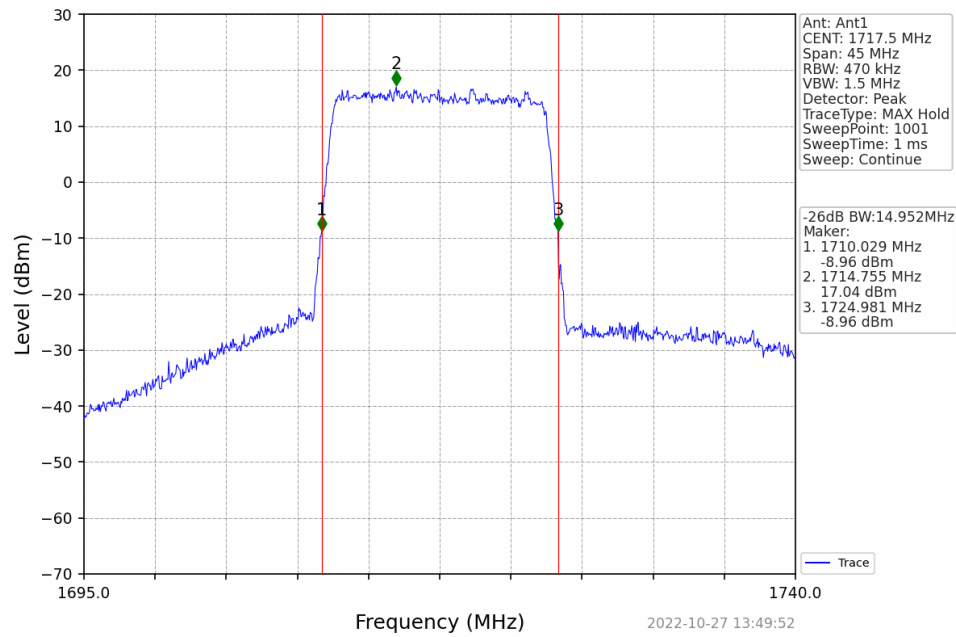


Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV

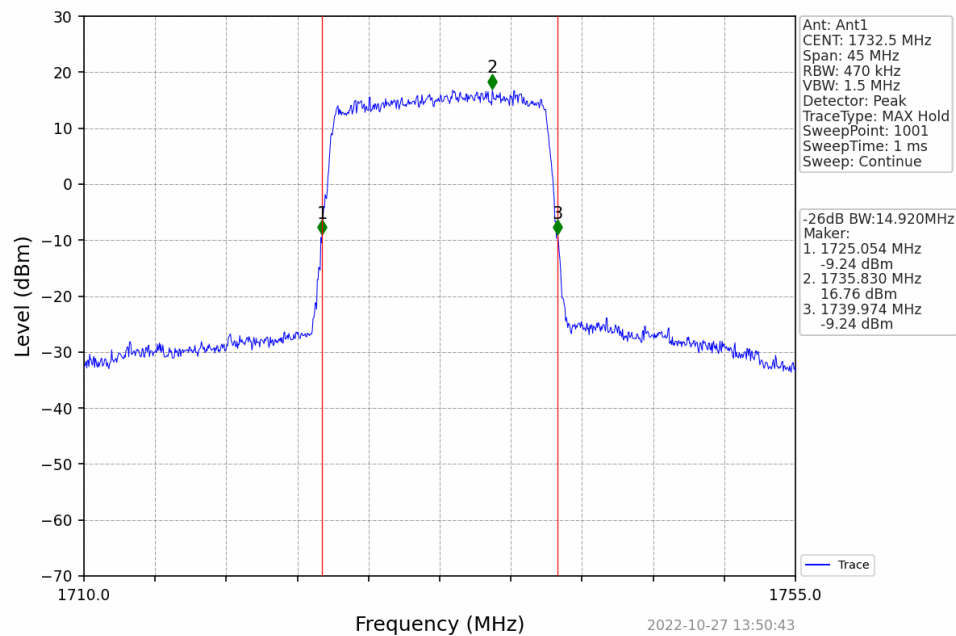




Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV

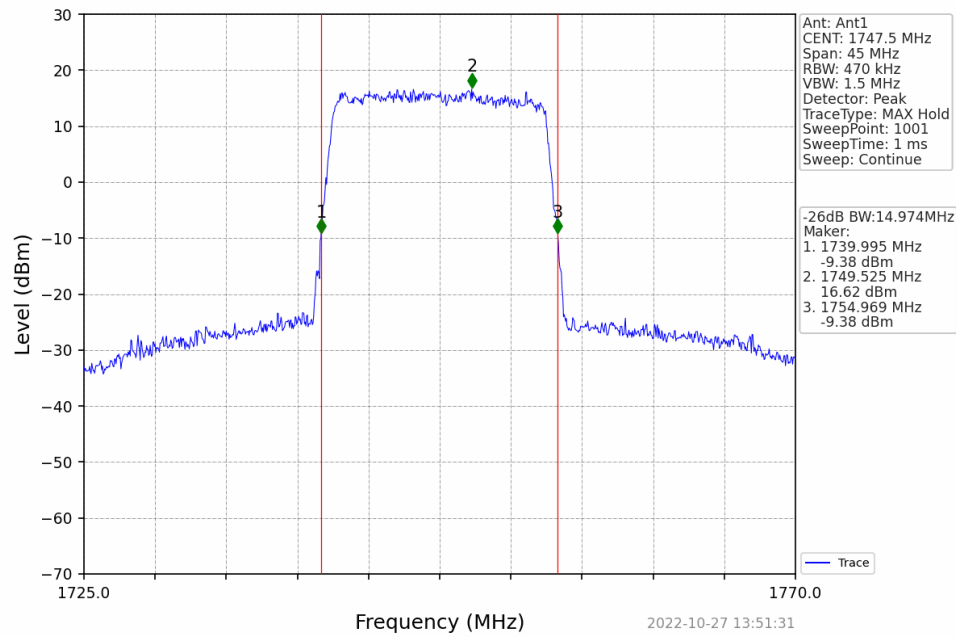


Band4_15MHz_64QAM_MCH_1732.5MHz_RB_75_0_NTNV

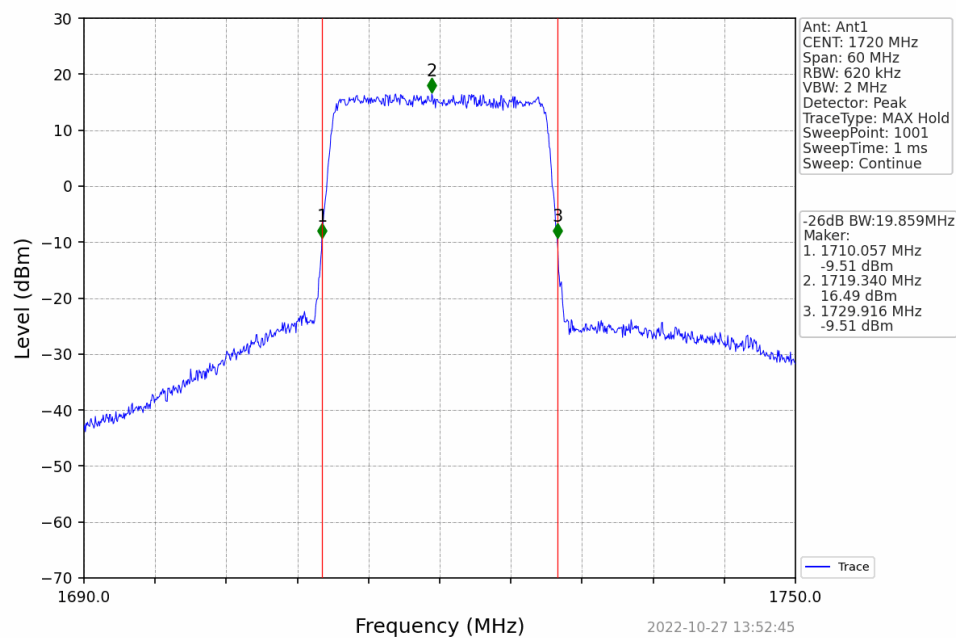




Band4_15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV

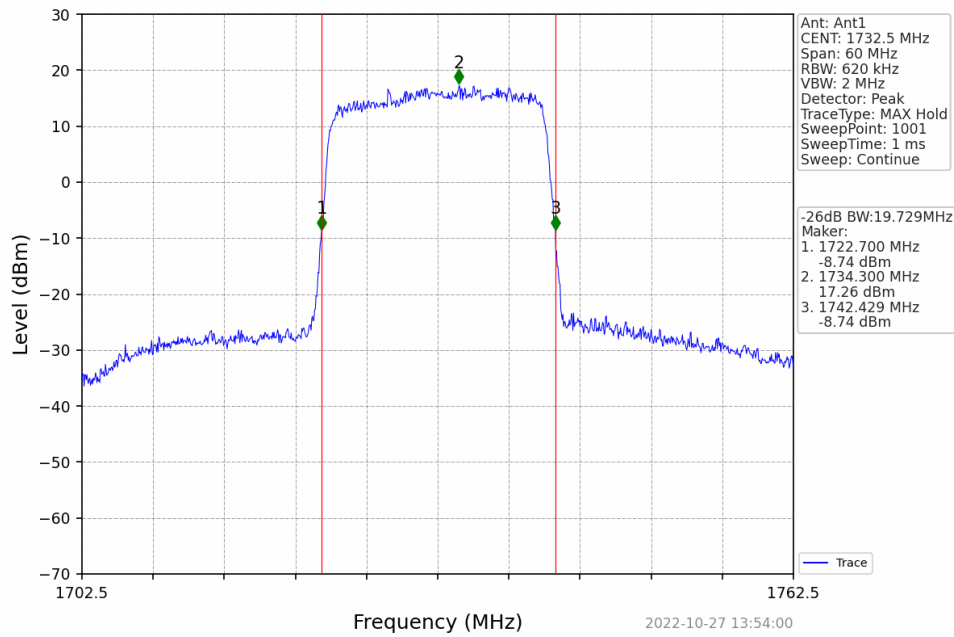


Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV

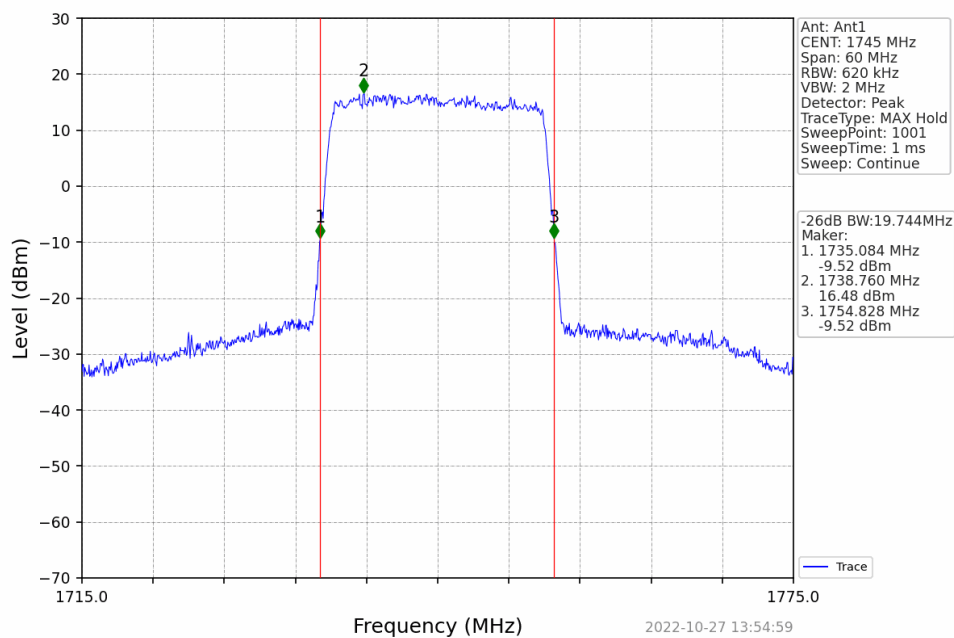




Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV

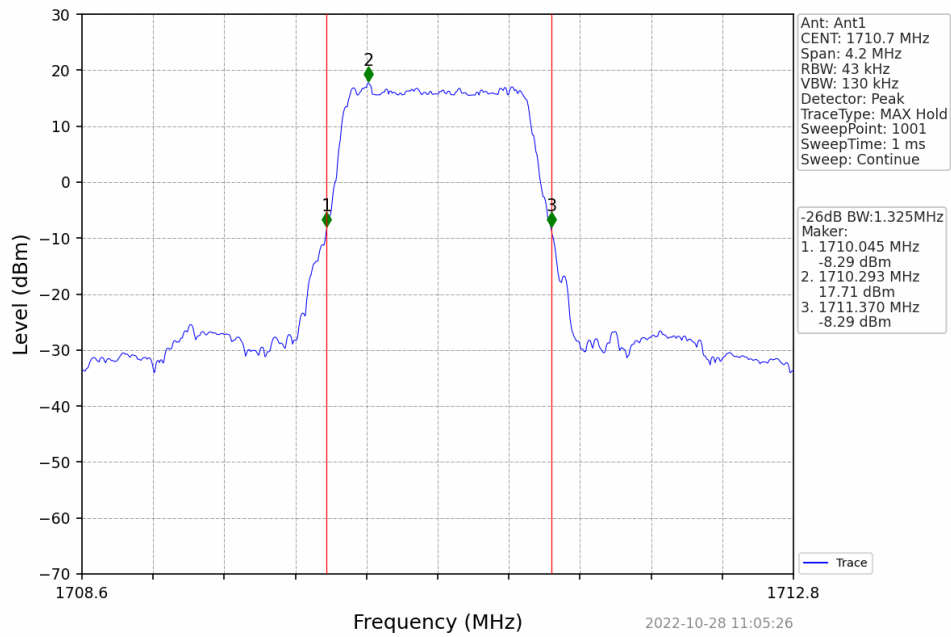


Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV

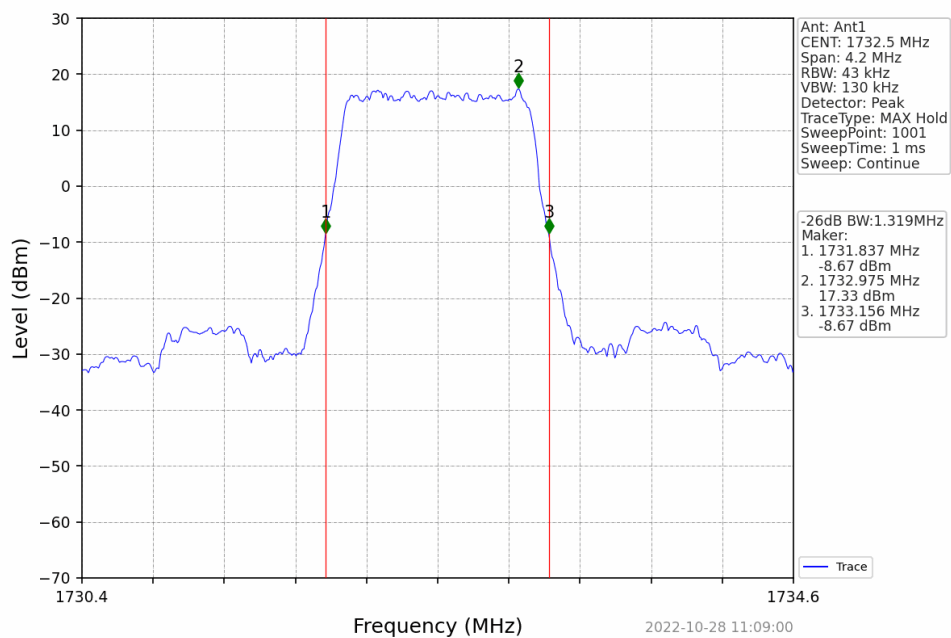




Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

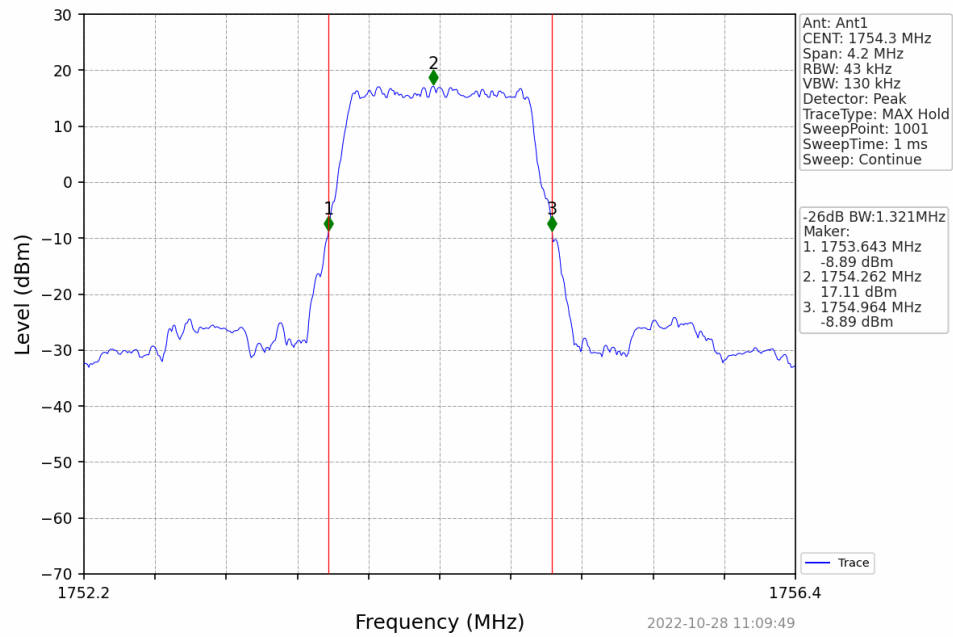


Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

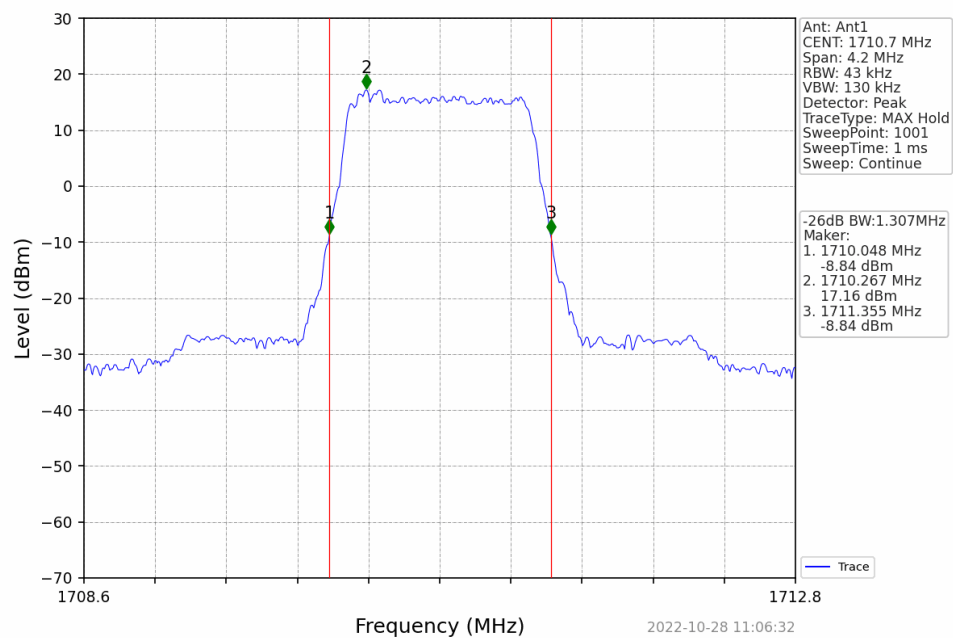




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

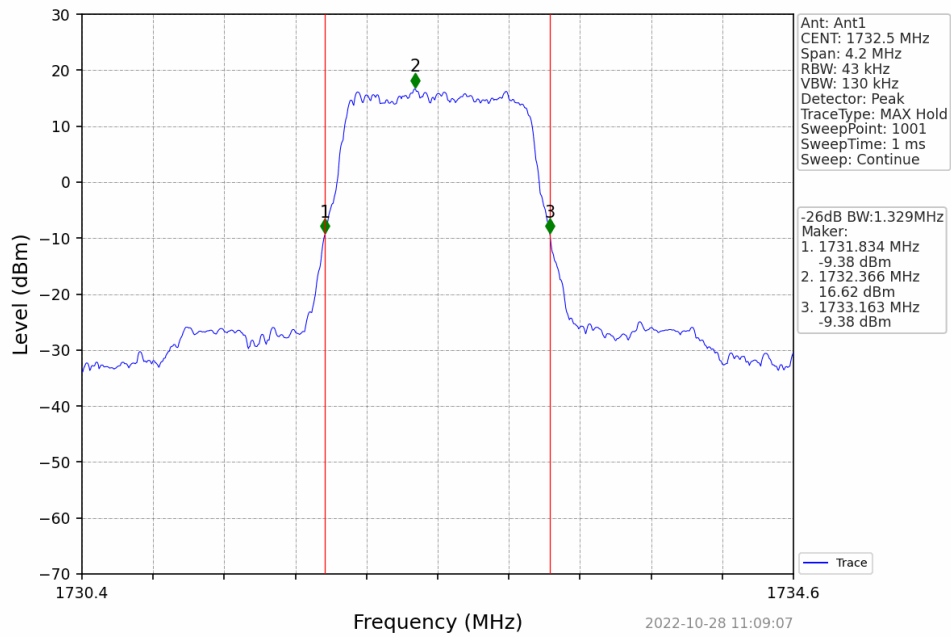


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

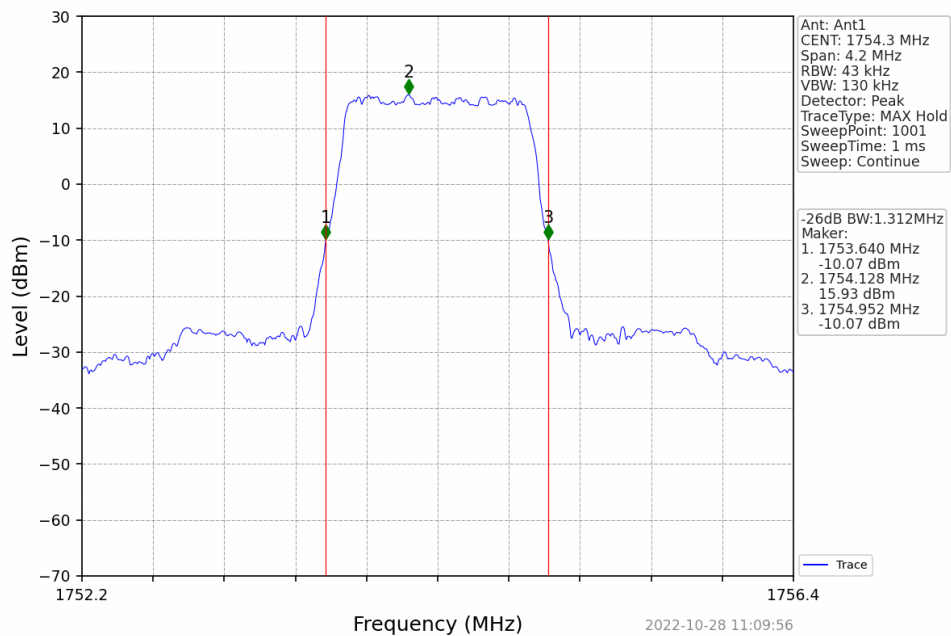




Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

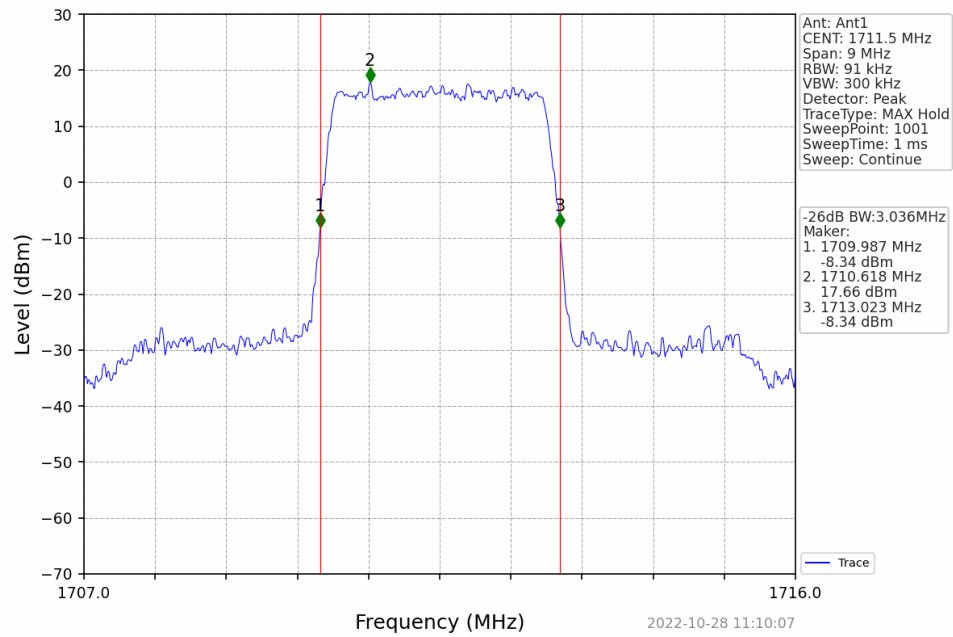


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

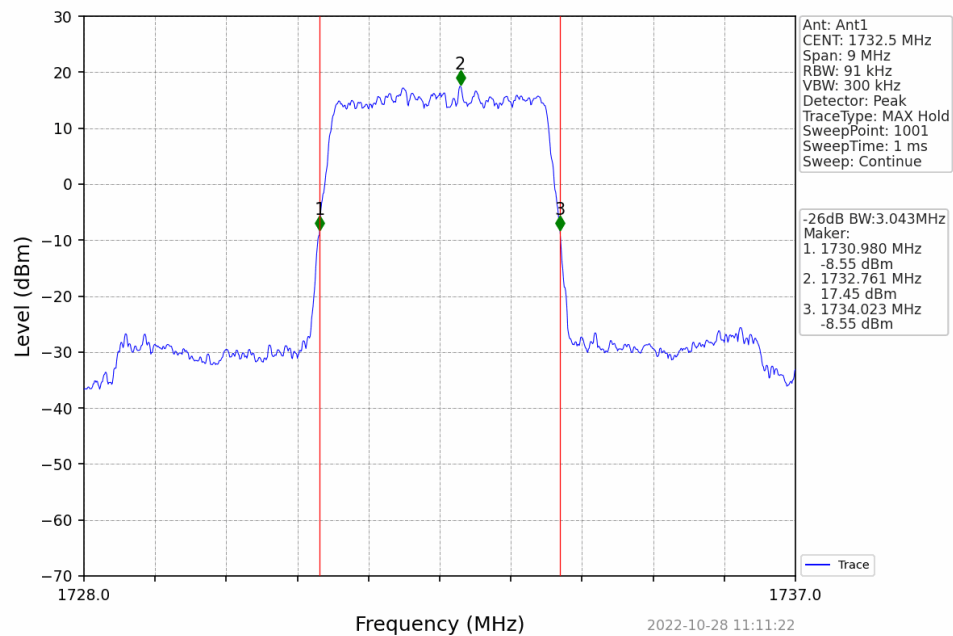




Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

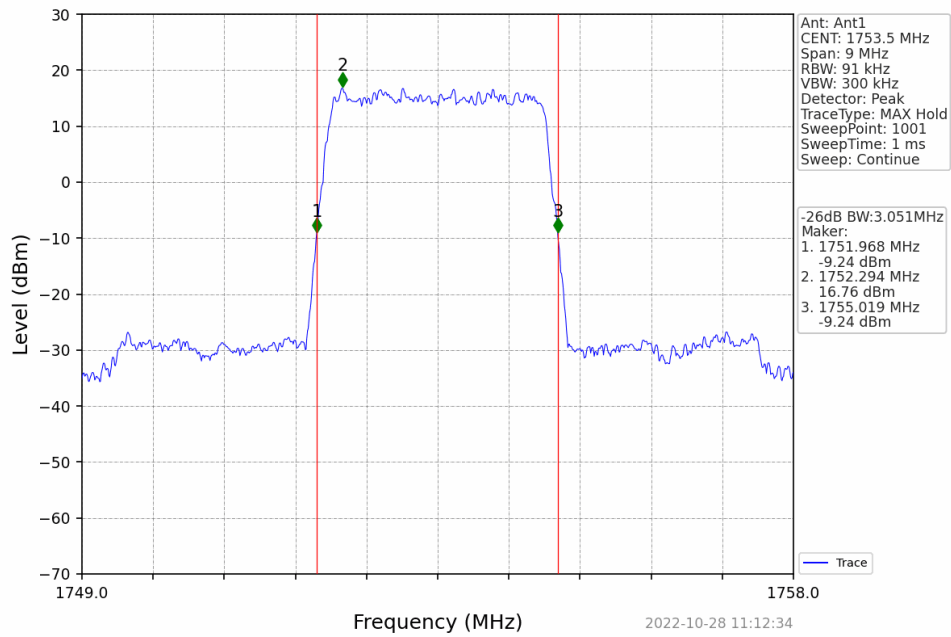


Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

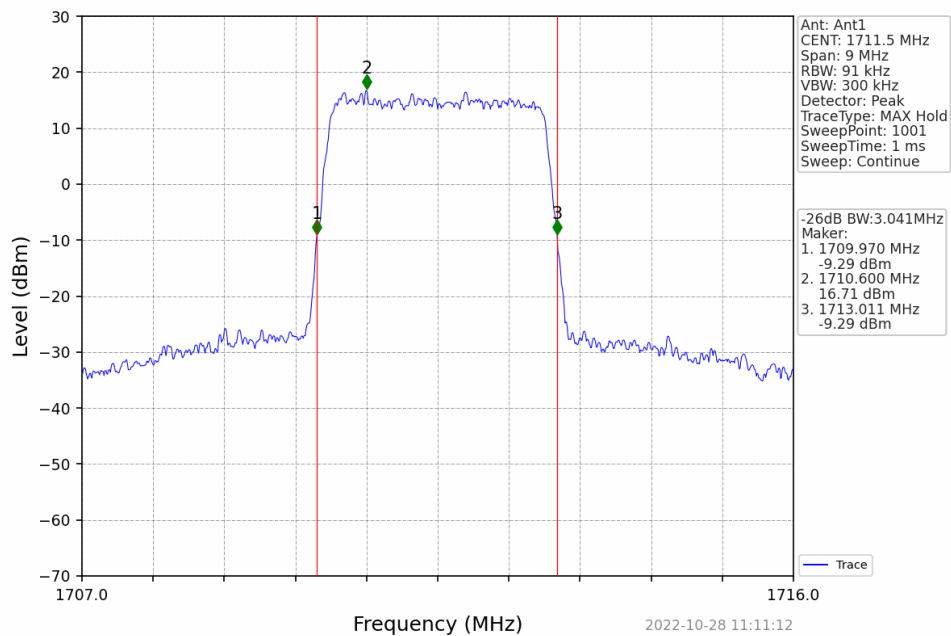




Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

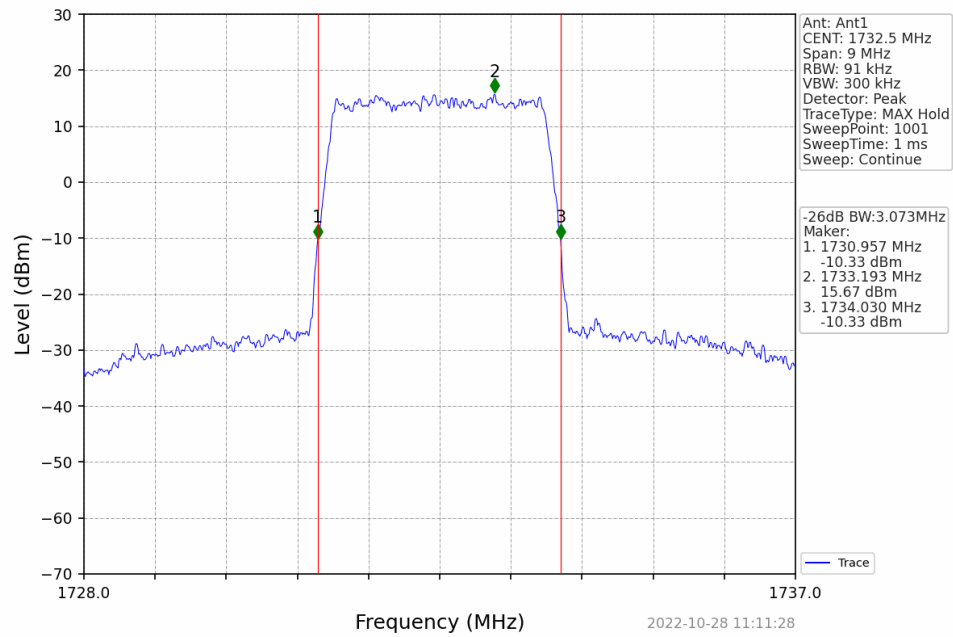


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

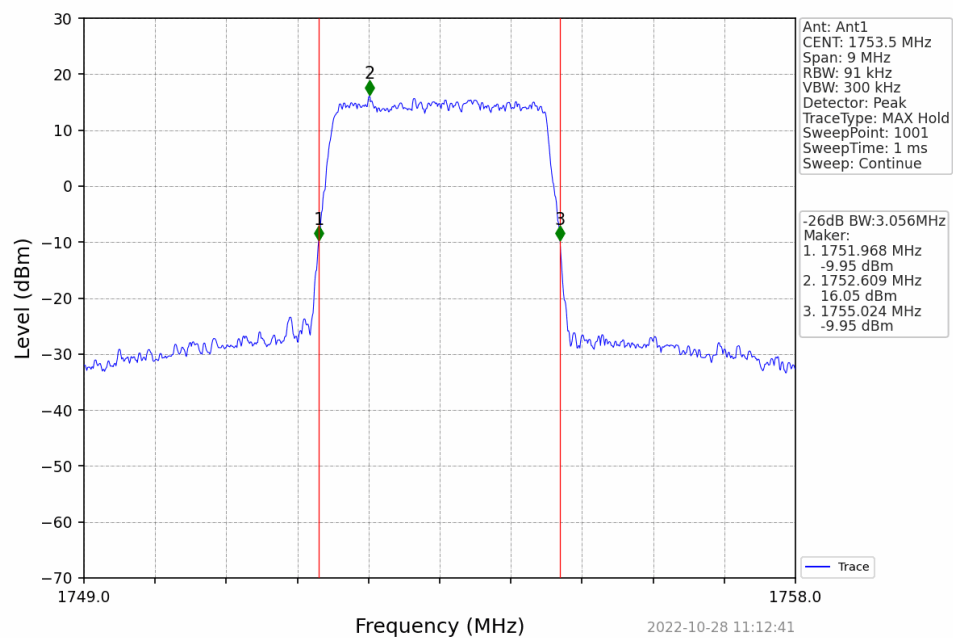




Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

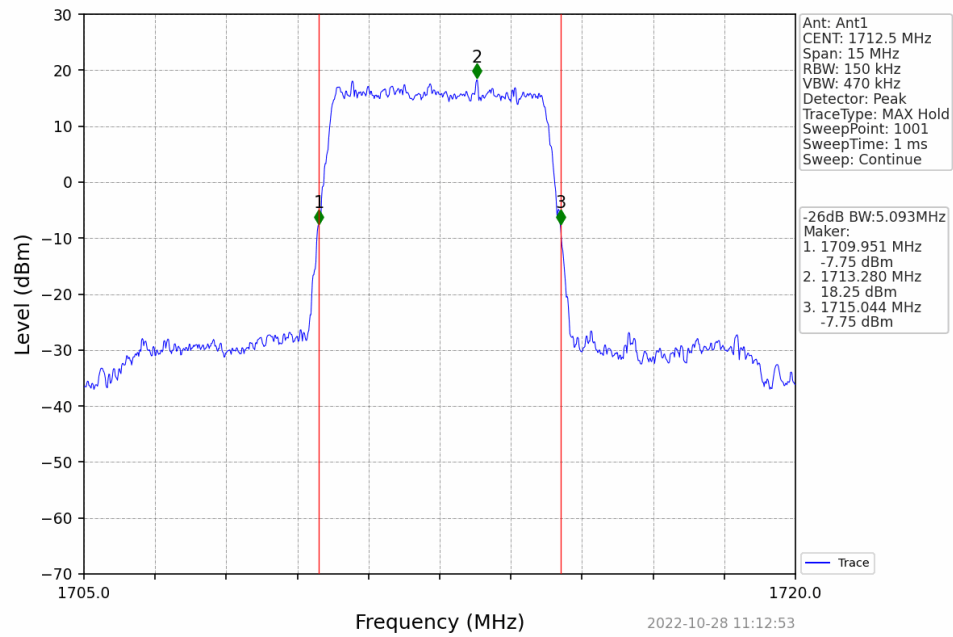


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

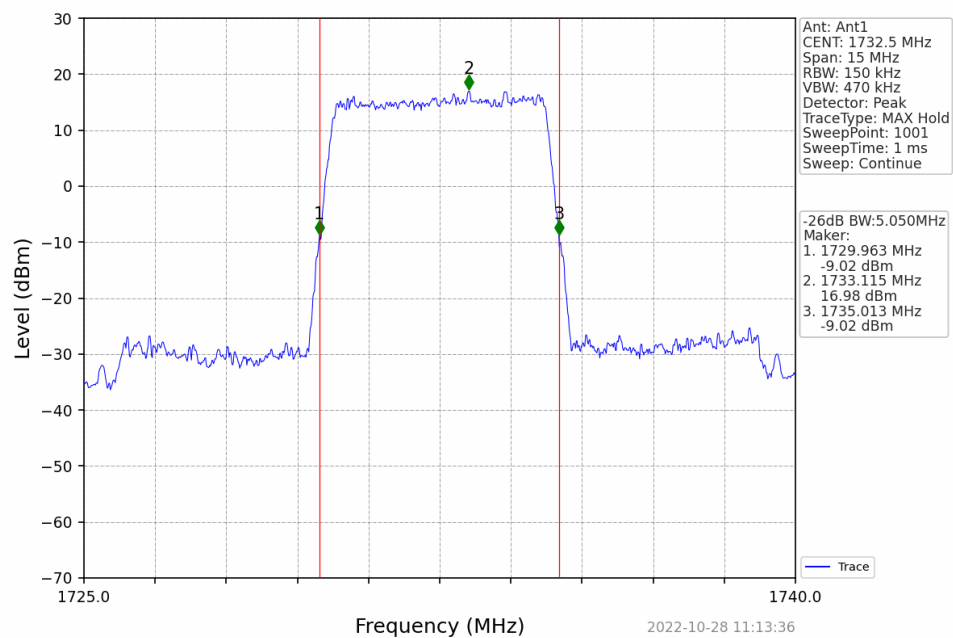




Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

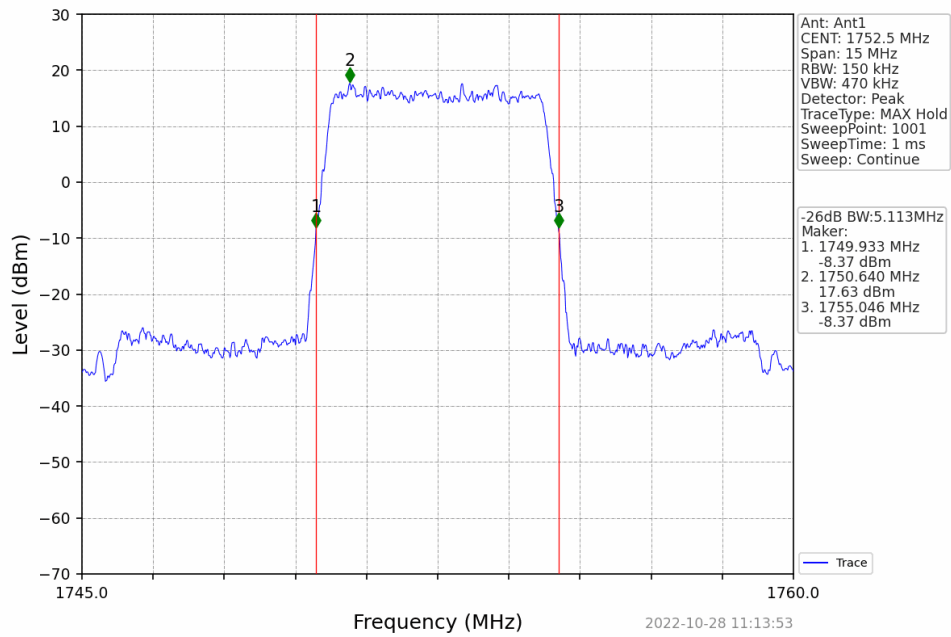


Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

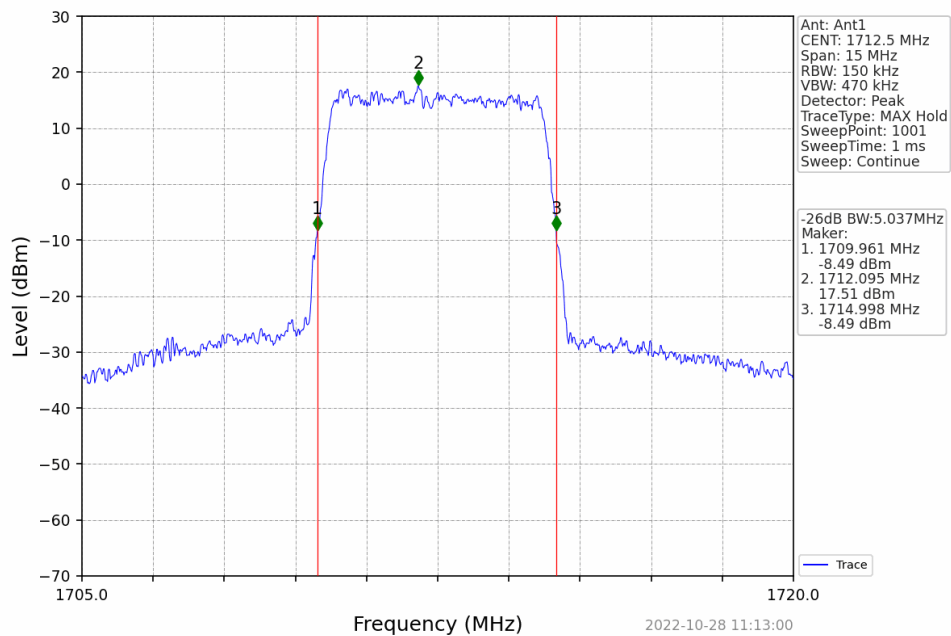




Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

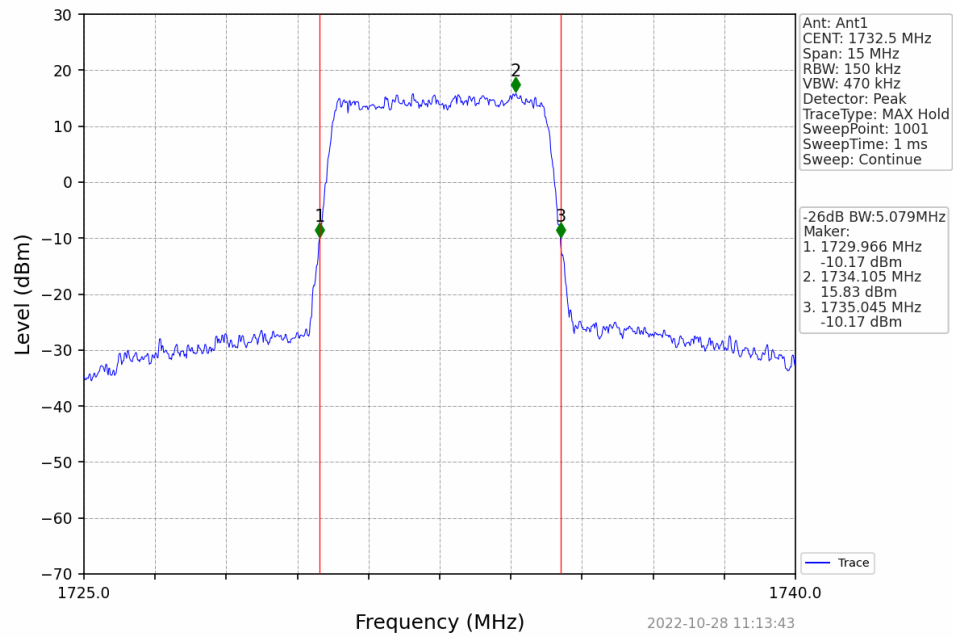


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

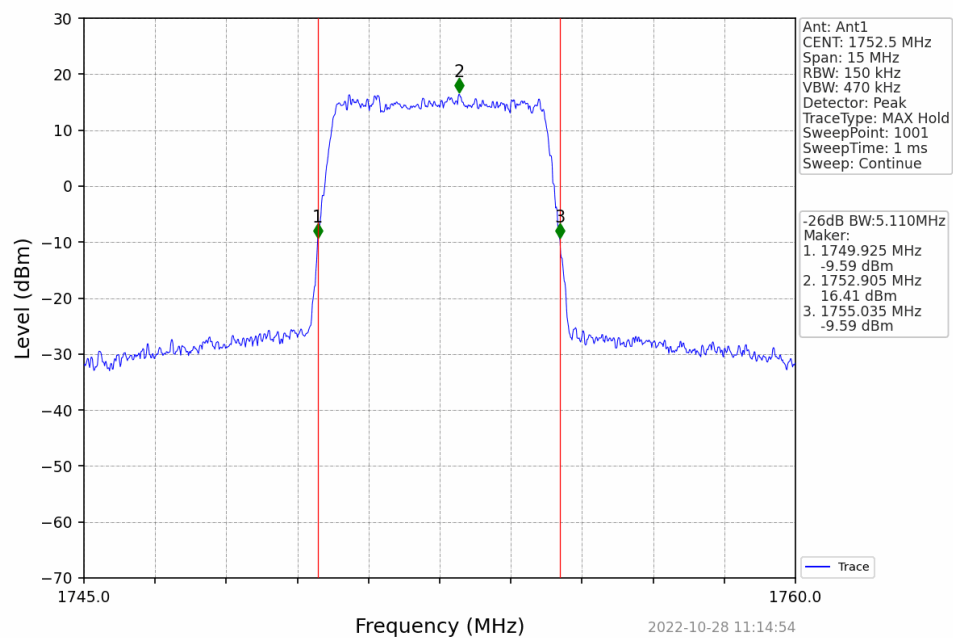




Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV

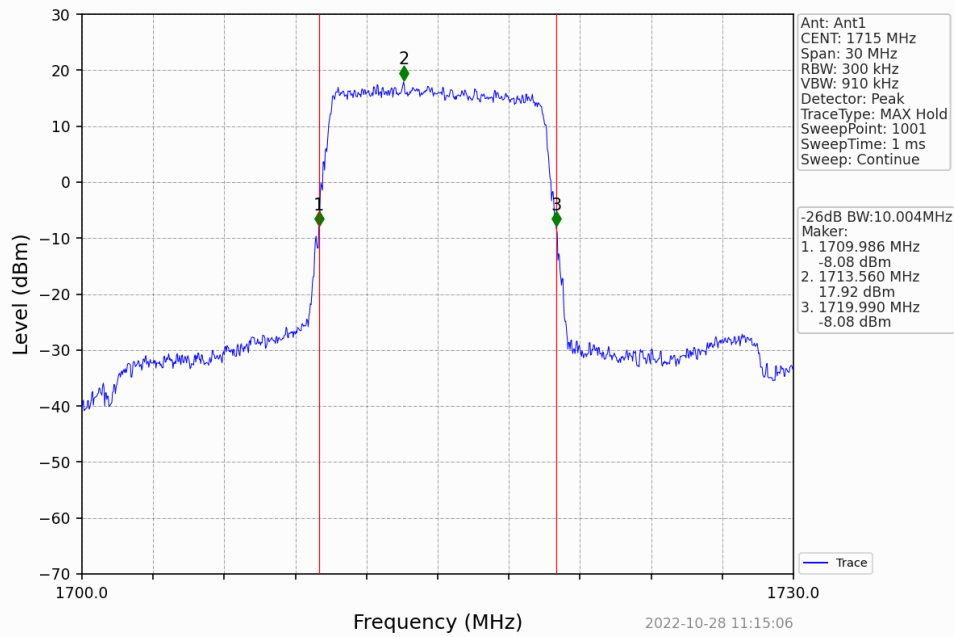


Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV

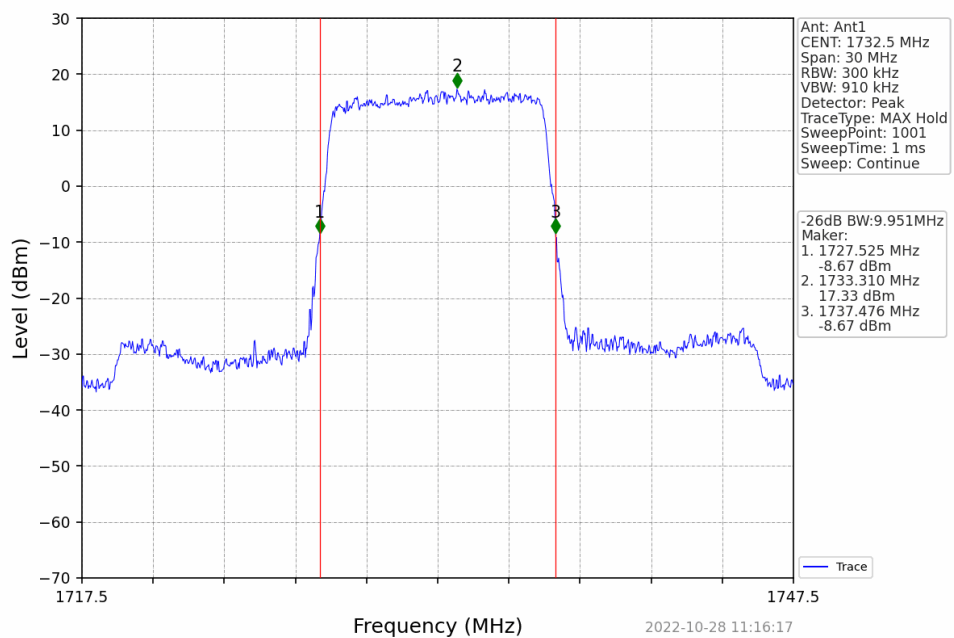




Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

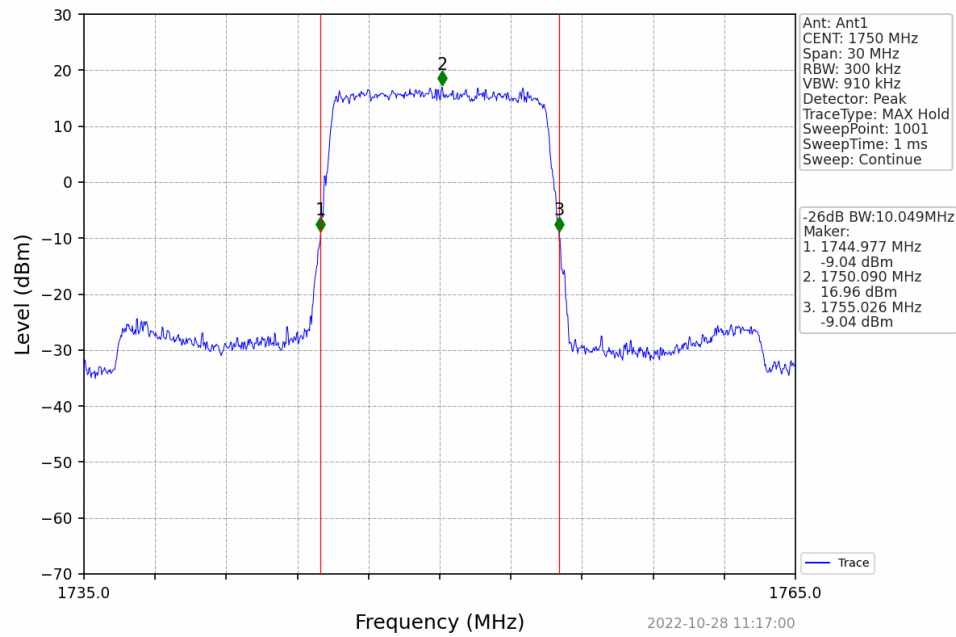


Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

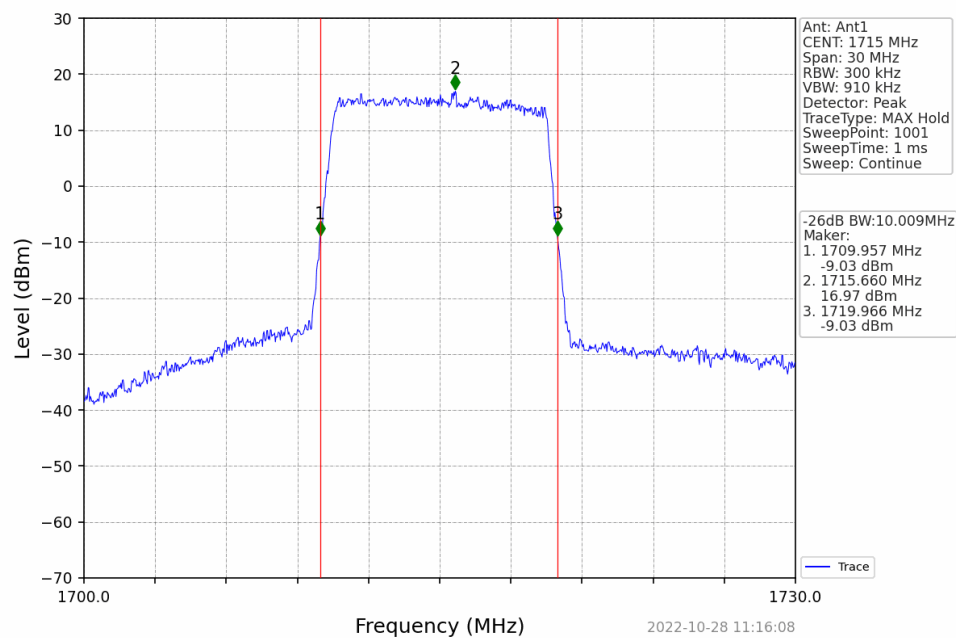




Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

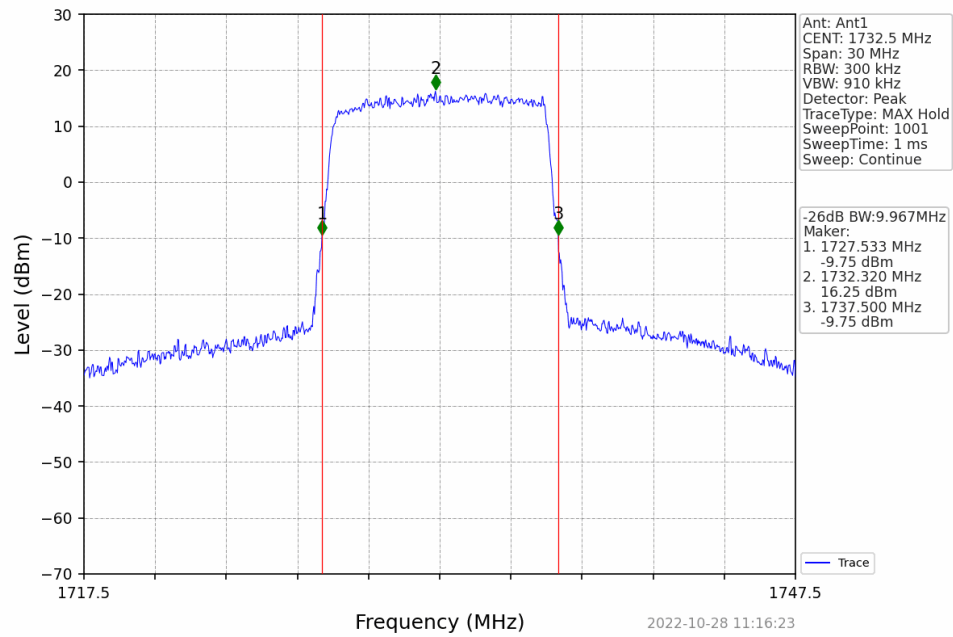


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

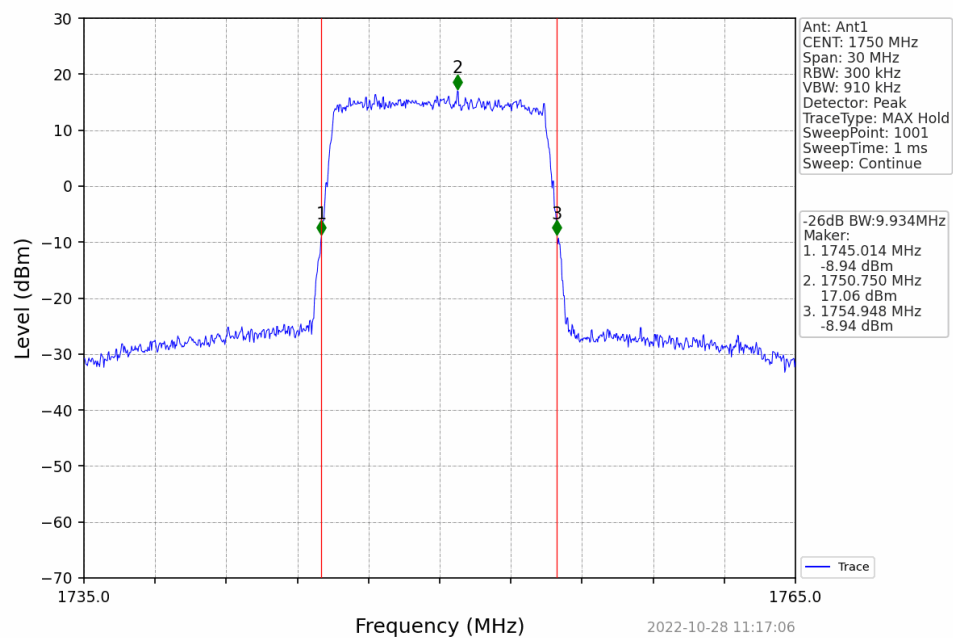




Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

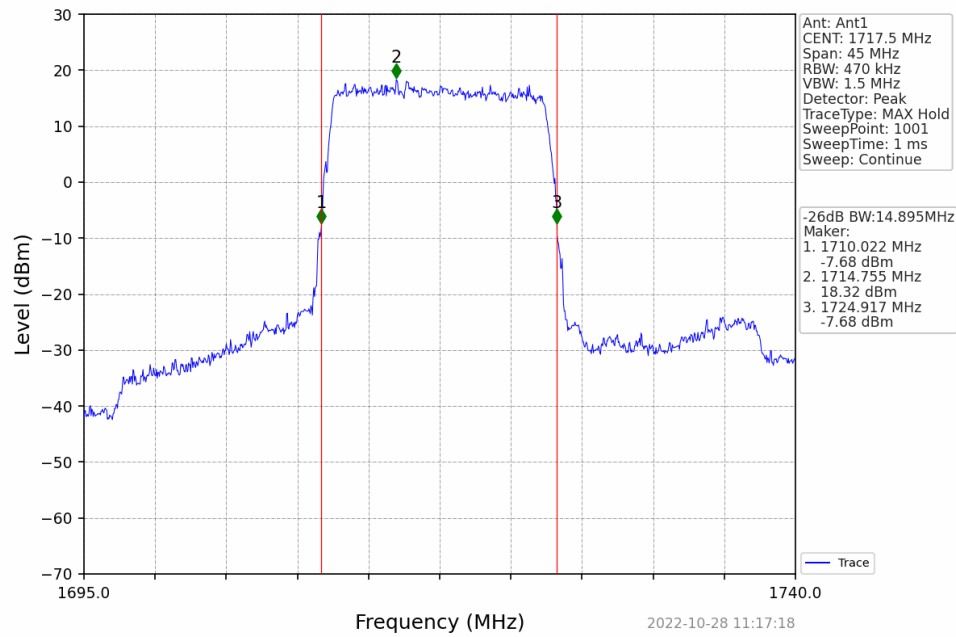


Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

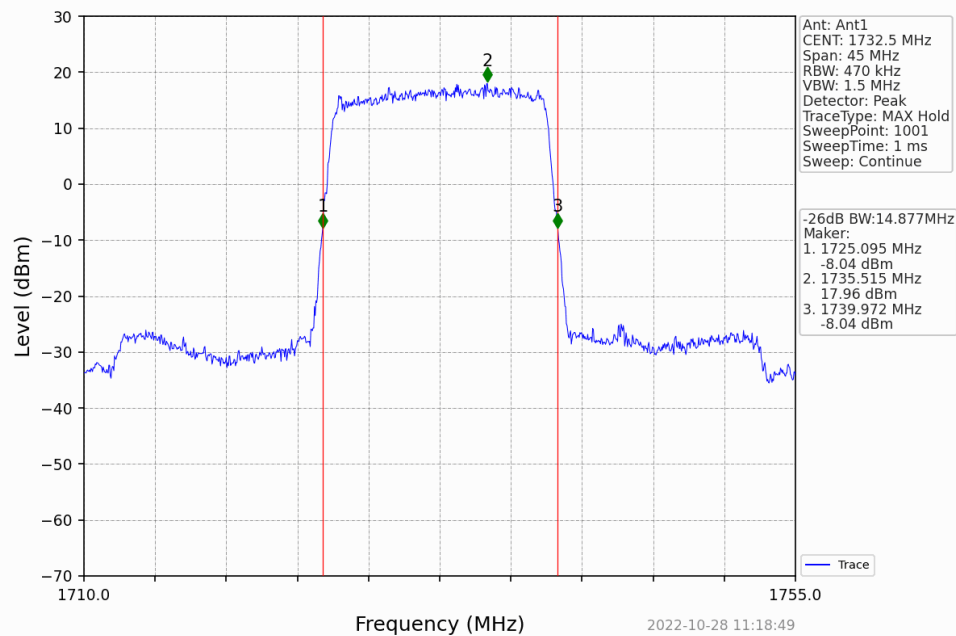




Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

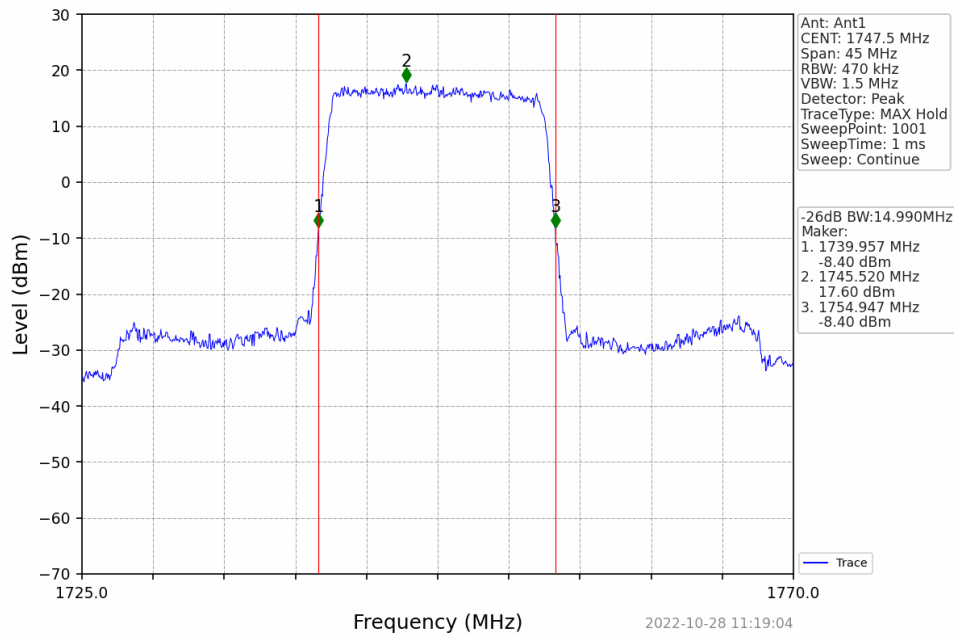


Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

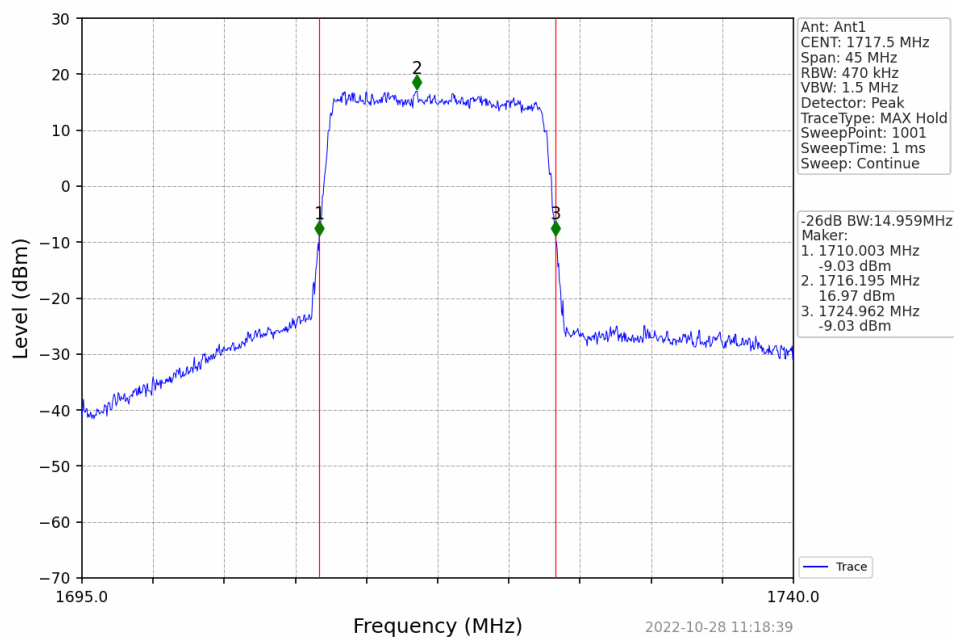




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

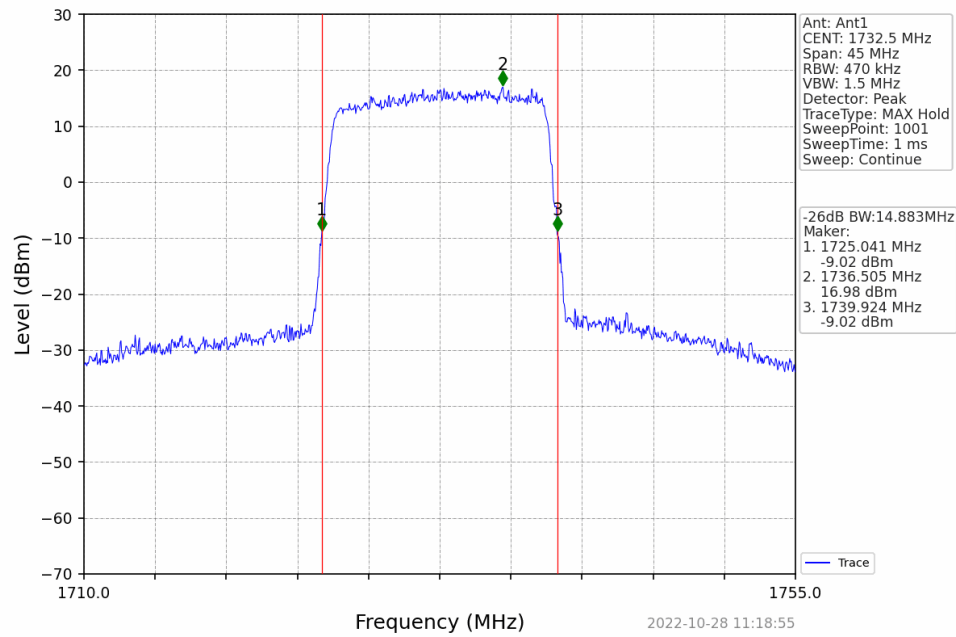


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

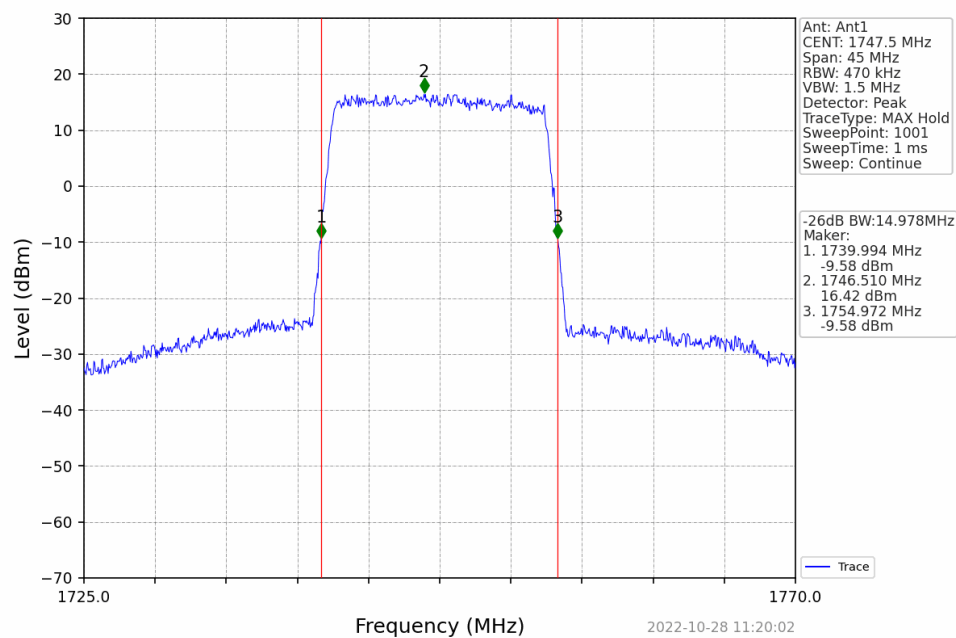




Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

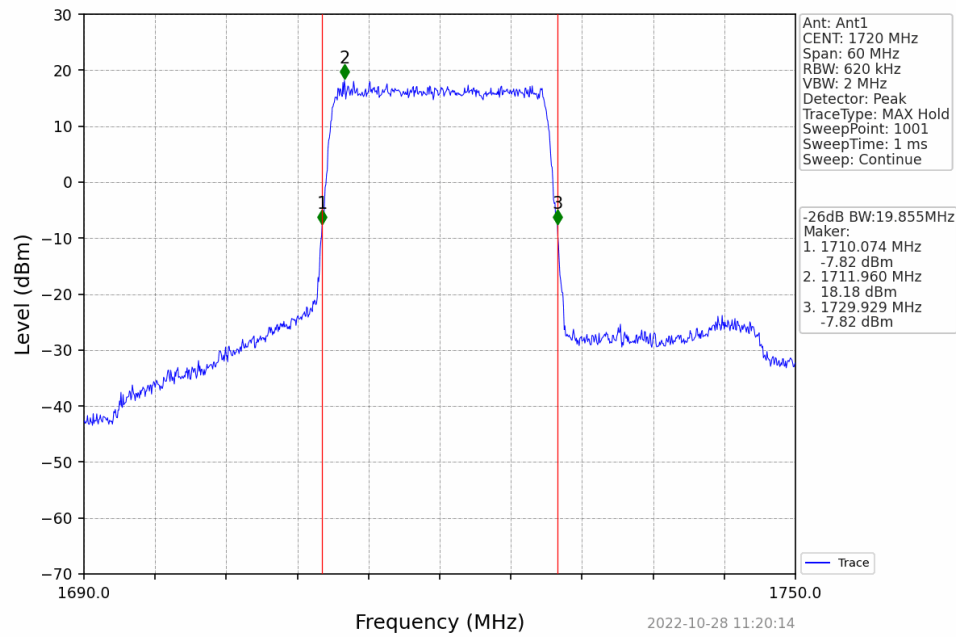


Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

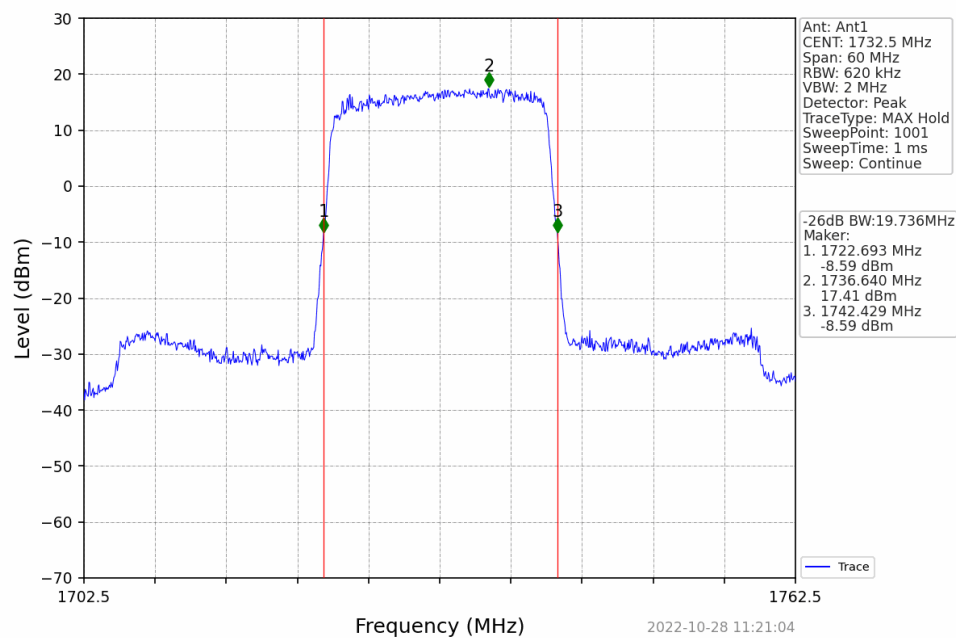




Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

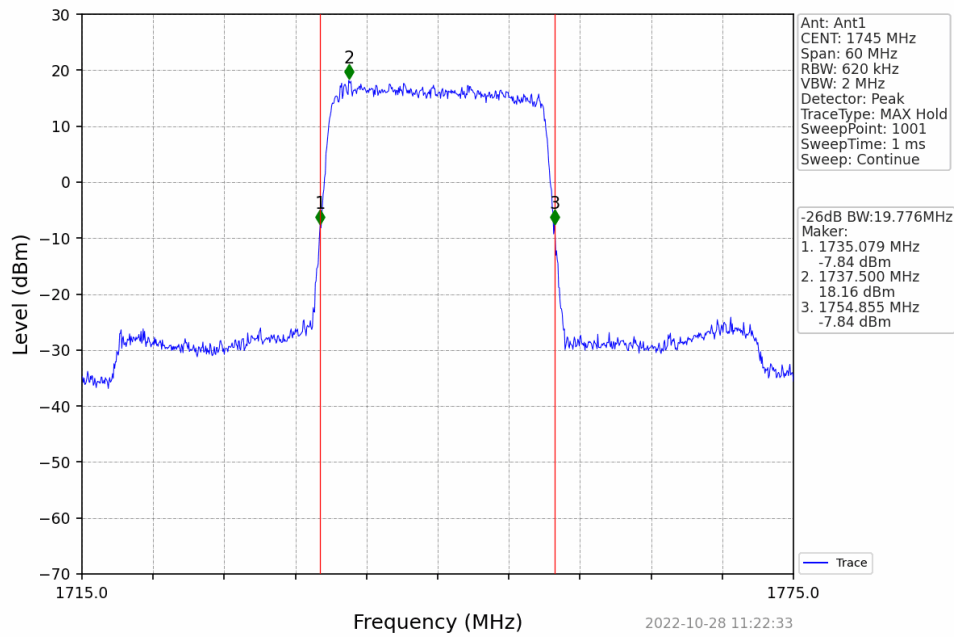


Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

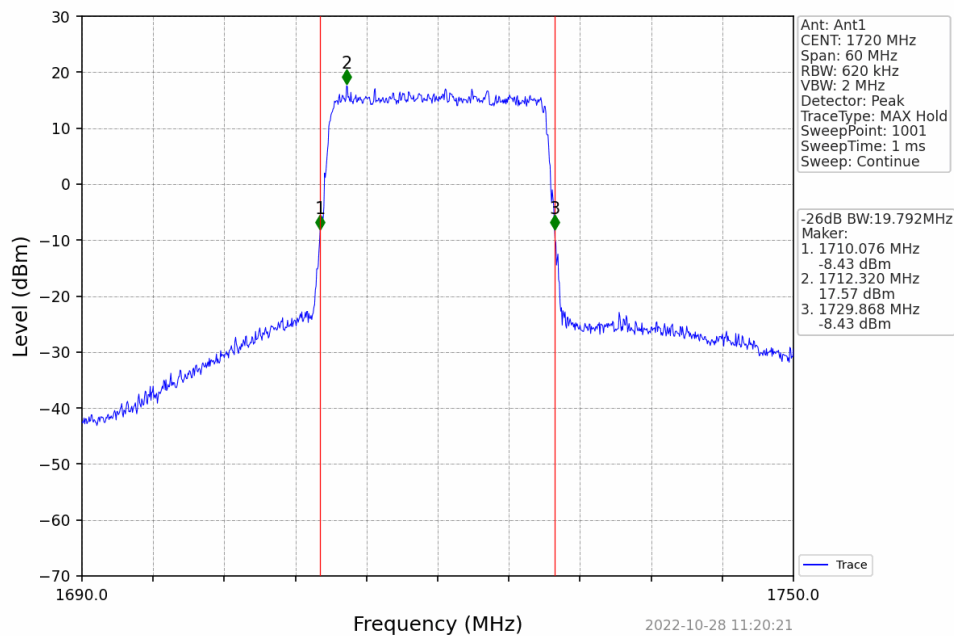




Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

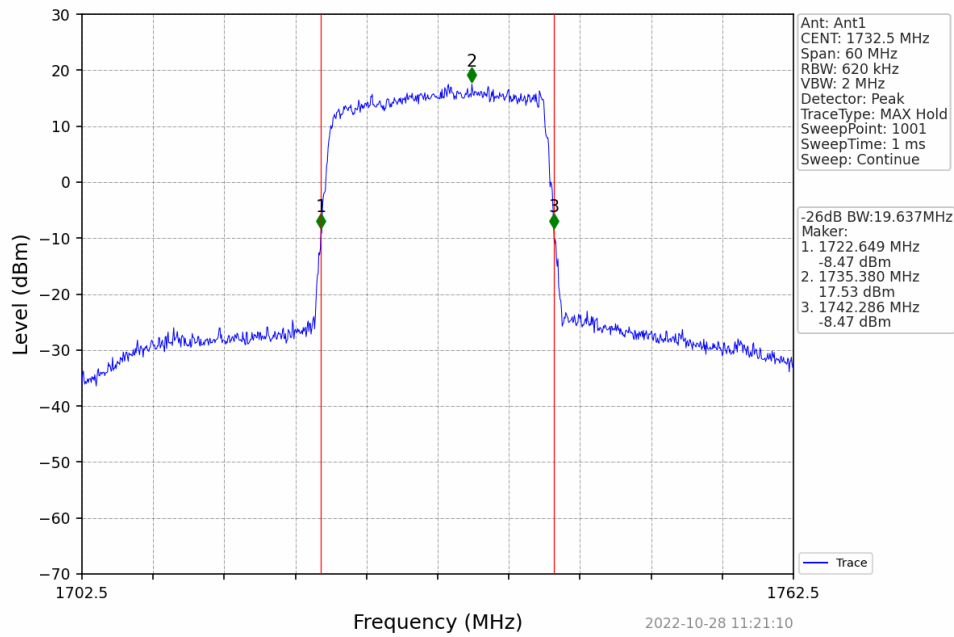


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

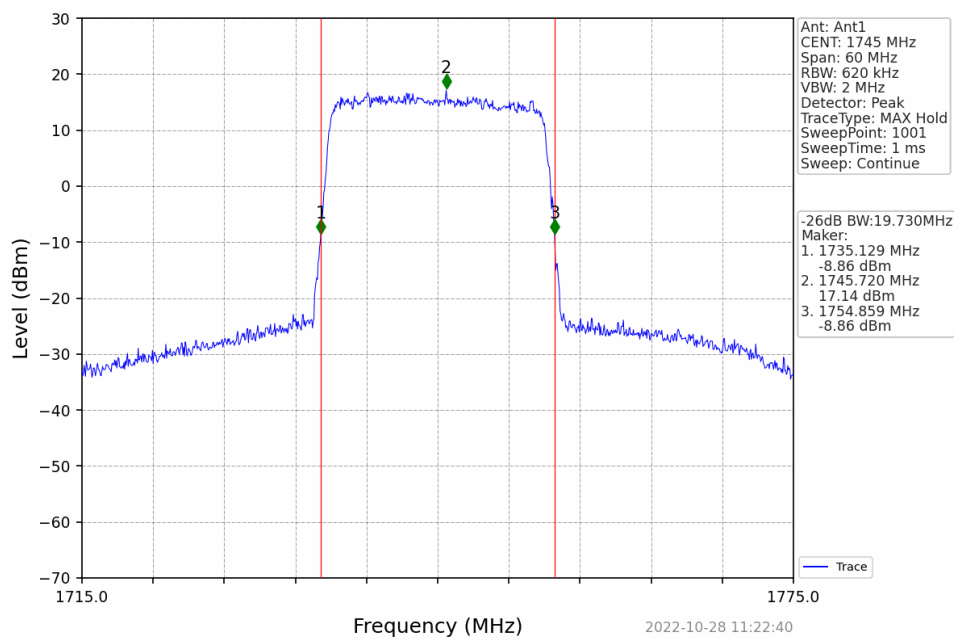




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV





5. Peak-Average Ratio

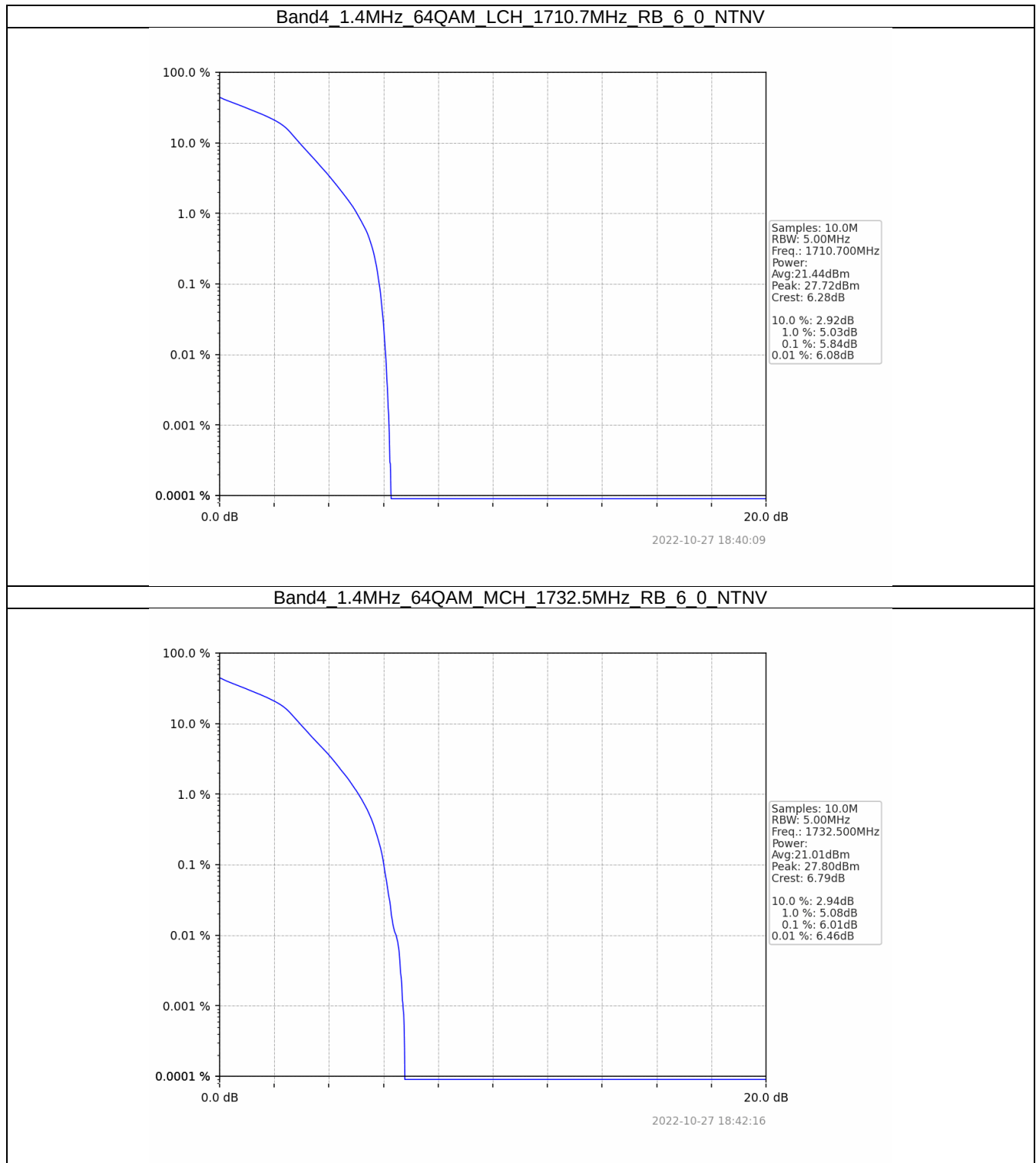
5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1710.7	6	0	5.84	<=13	Pass
	1732.5	6	0	6.01	<=13	Pass
	1754.3	6	0	6.15	<=13	Pass
QPSK	1710.7	6	0	4.95	<=13	Pass
	1732.5	6	0	5.23	<=13	Pass
	1754.3	6	0	5.35	<=13	Pass
16QAM	1710.7	6	0	5.83	<=13	Pass
	1732.5	6	0	6.04	<=13	Pass
	1754.3	6	0	6.14	<=13	Pass

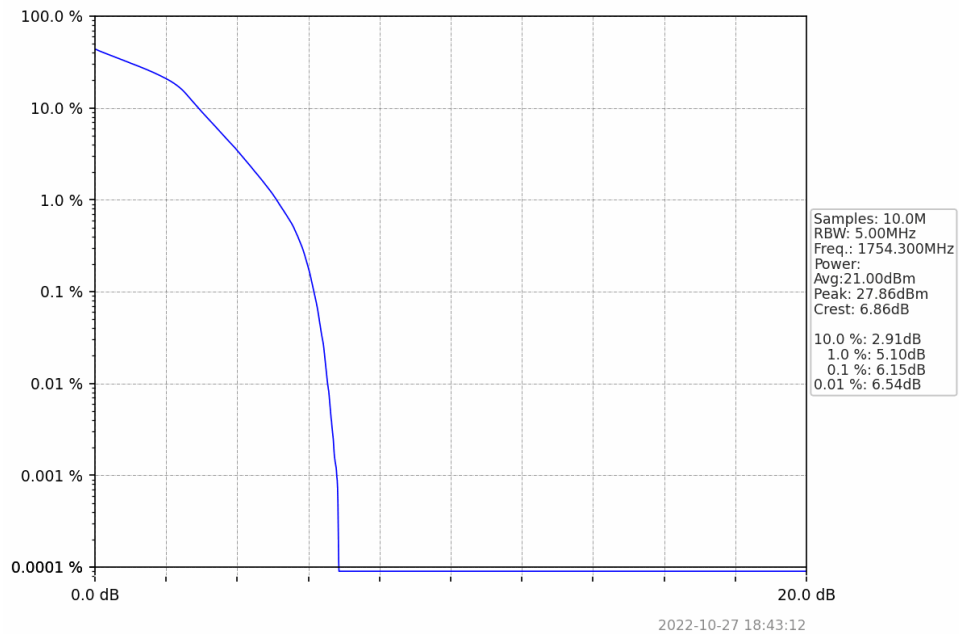


5.1.2 Test Graph

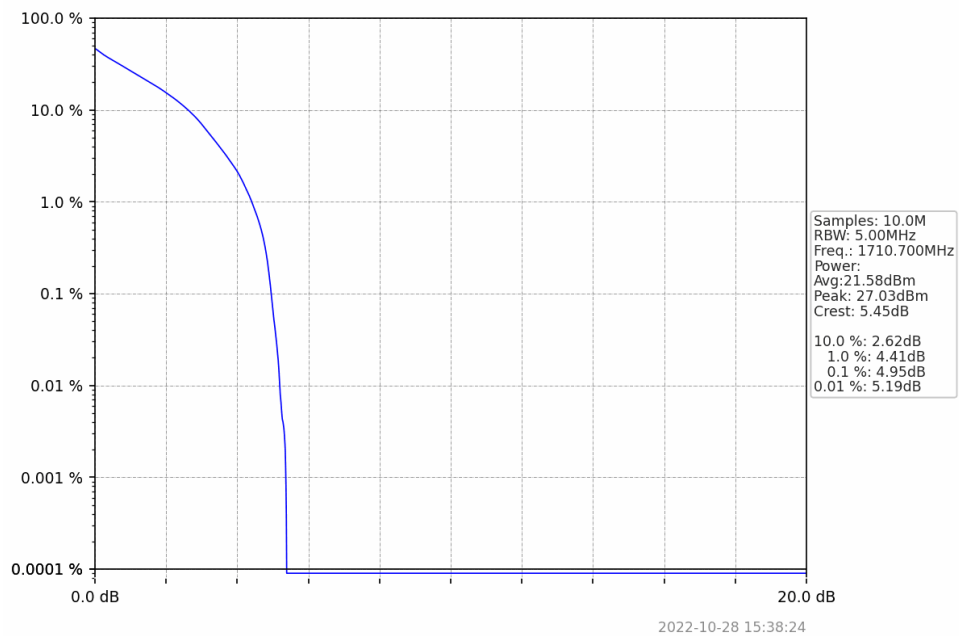




Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV

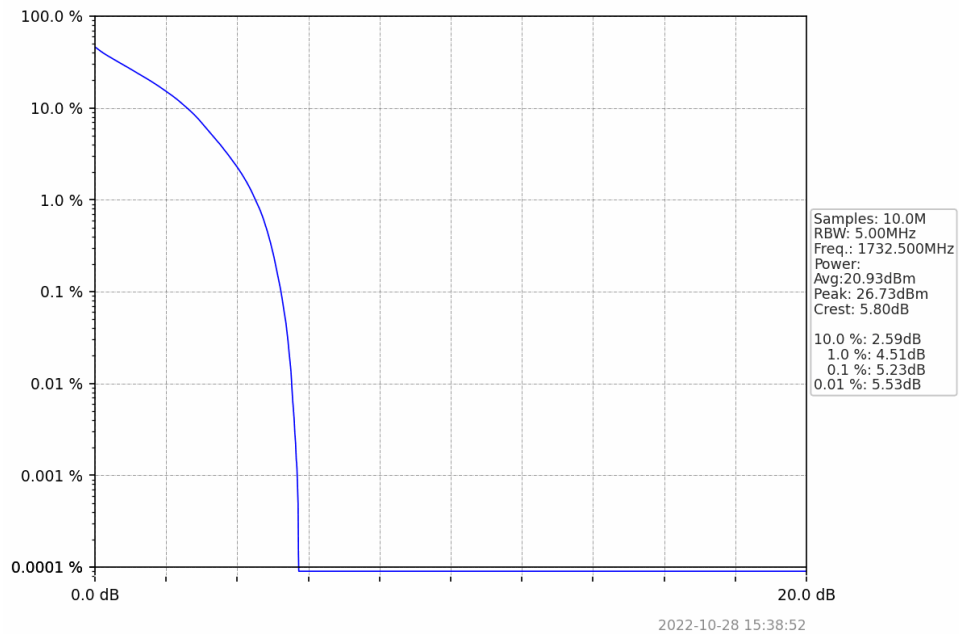


Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV

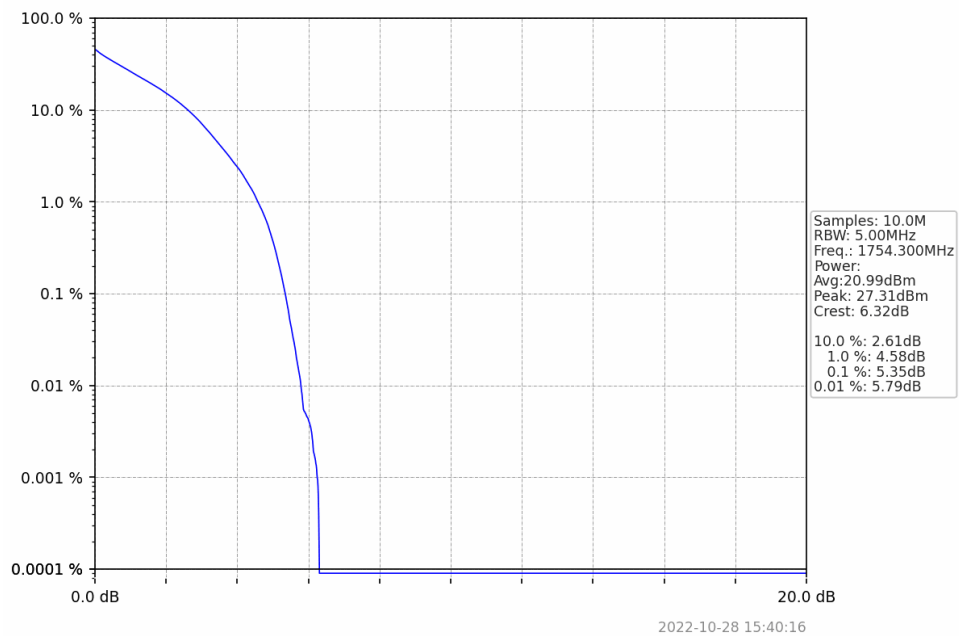




Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

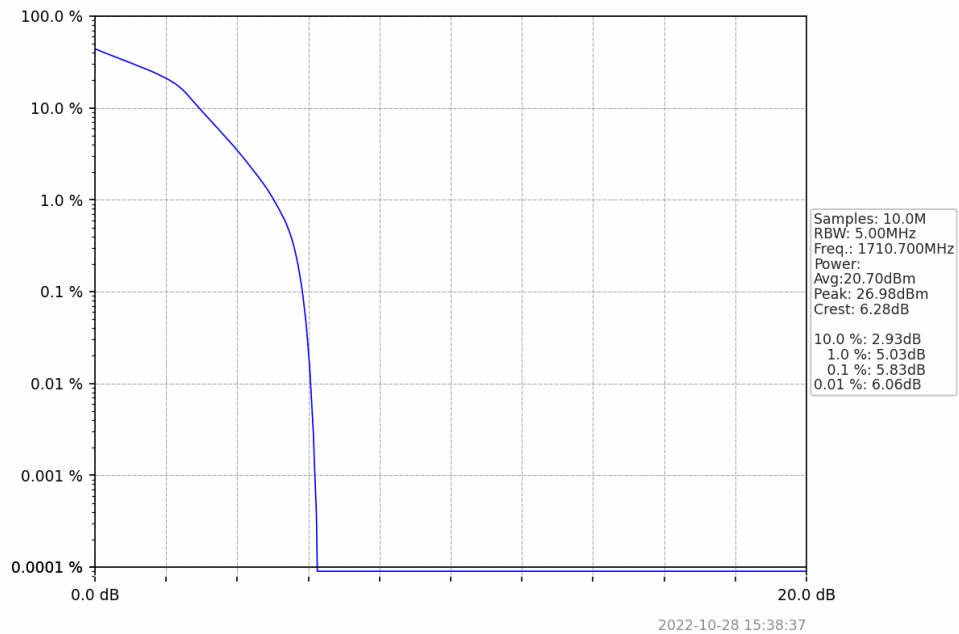


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

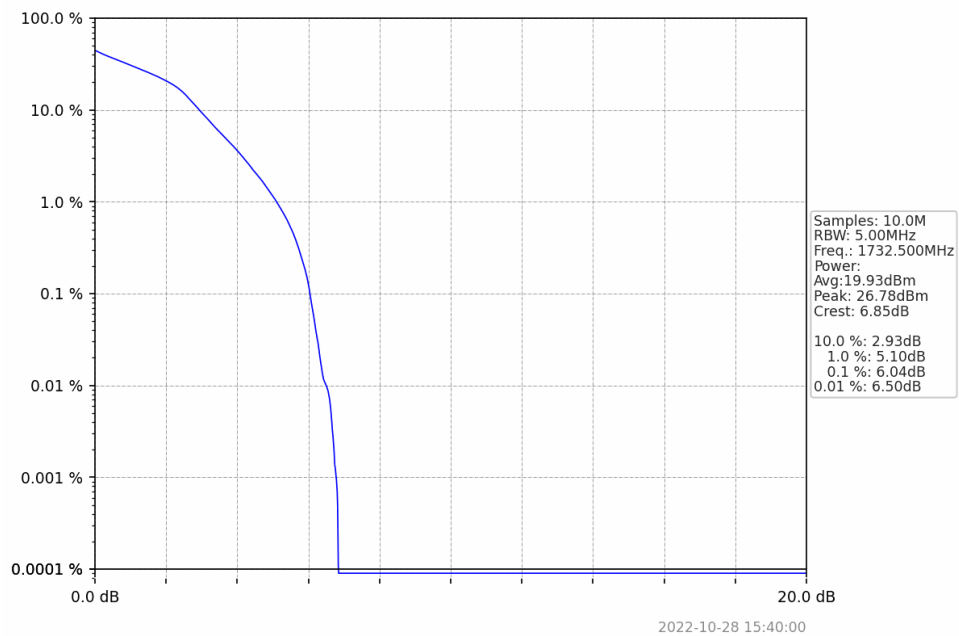


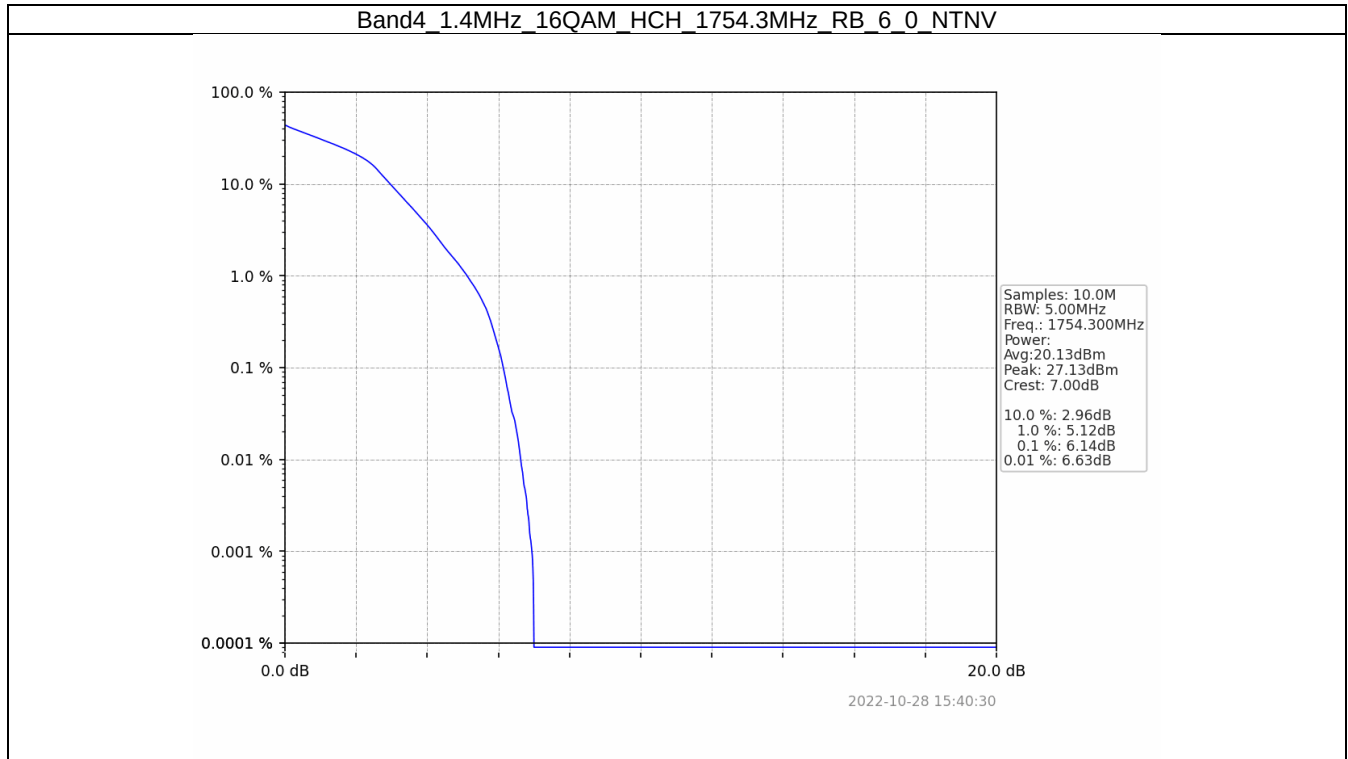


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV







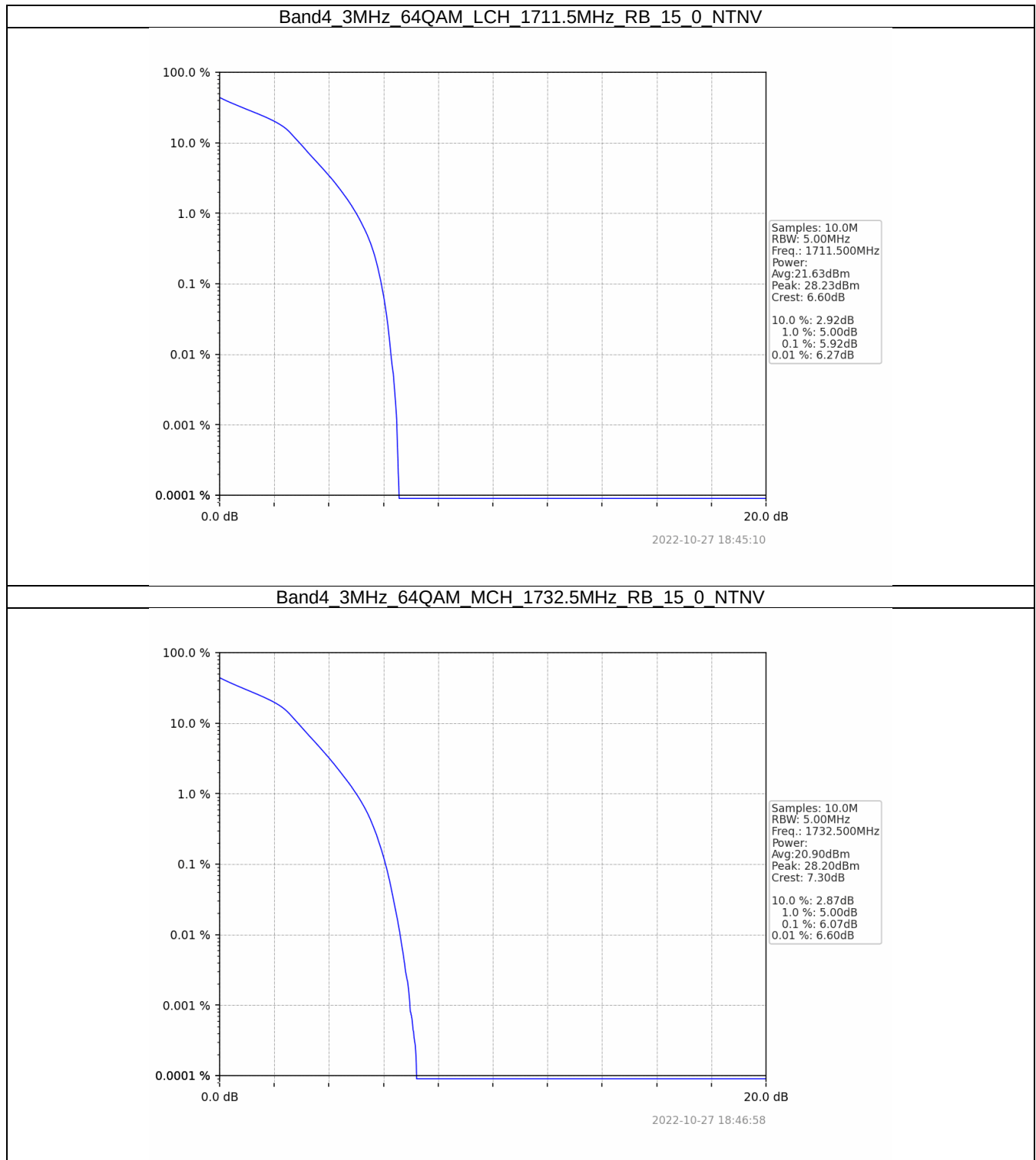
5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1711.5	15	0	5.92	<=13	Pass
	1732.5	15	0	6.07	<=13	Pass
	1753.5	15	0	6.14	<=13	Pass
QPSK	1711.5	15	0	5.10	<=13	Pass
	1732.5	15	0	5.27	<=13	Pass
	1753.5	15	0	5.40	<=13	Pass
16QAM	1711.5	15	0	5.96	<=13	Pass
	1732.5	15	0	6.07	<=13	Pass
	1753.5	15	0	6.21	<=13	Pass

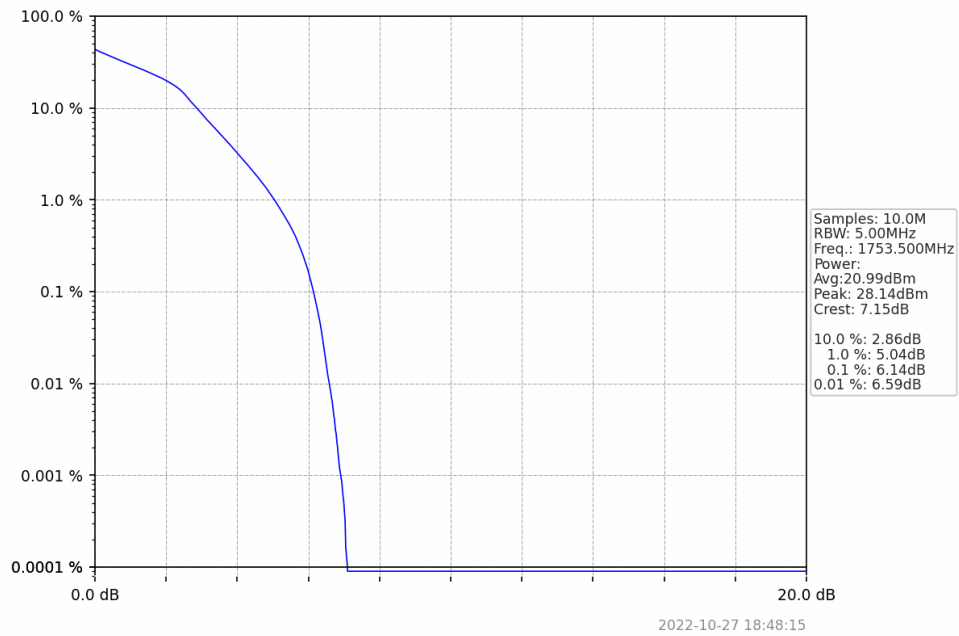


5.2.2 Test Graph

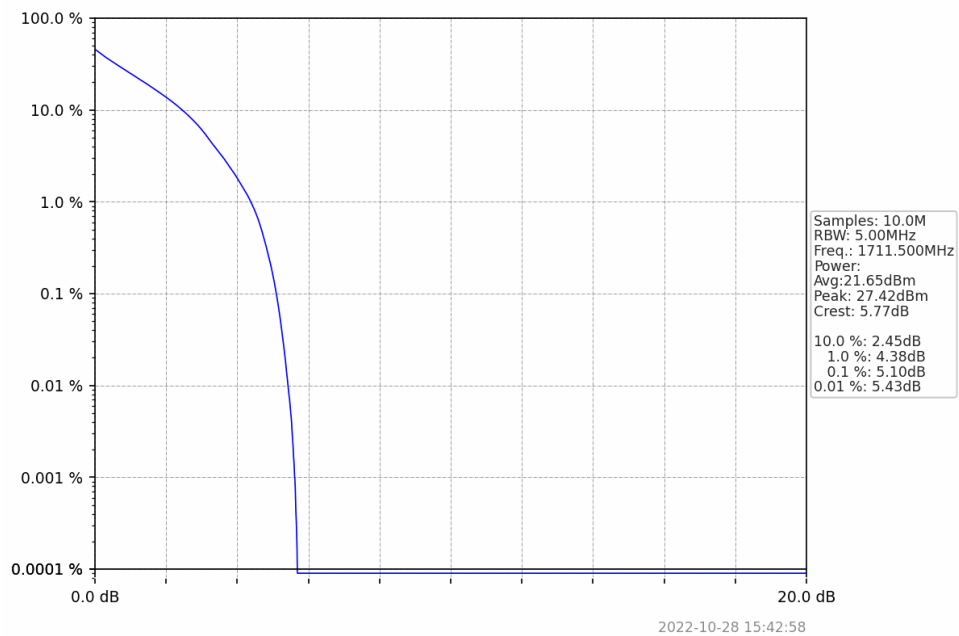




Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV

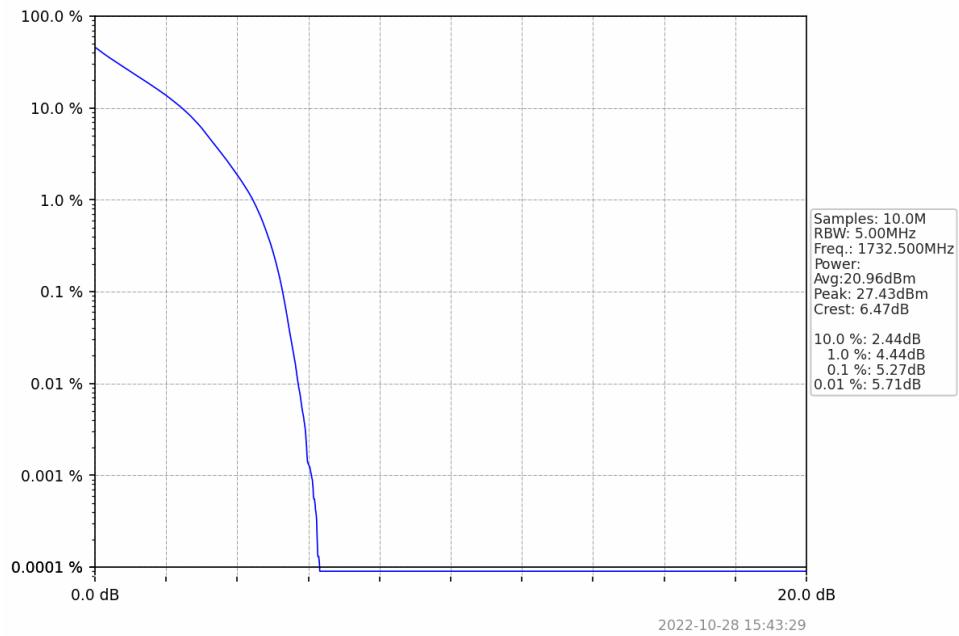


Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

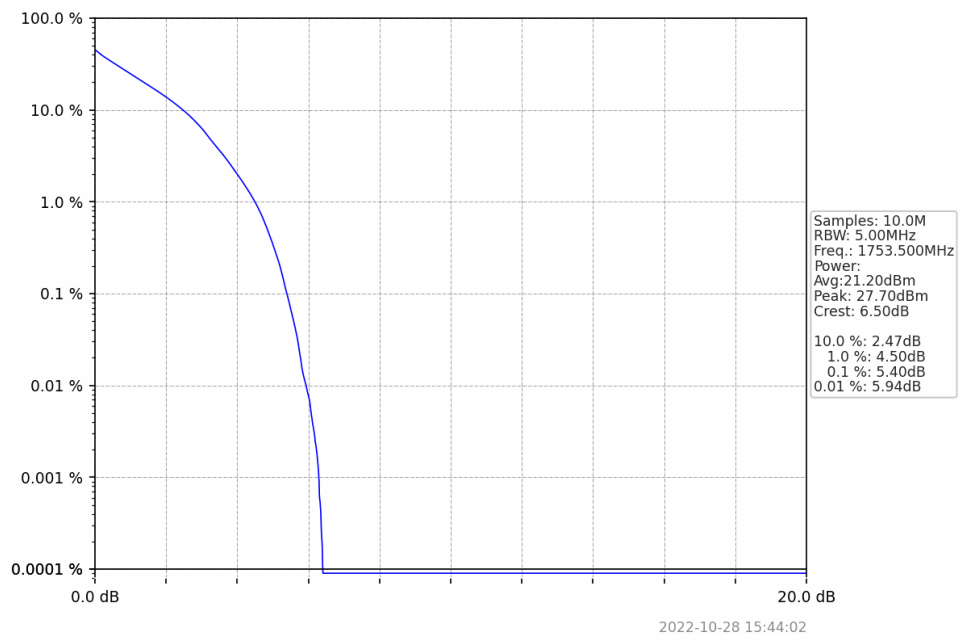




Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

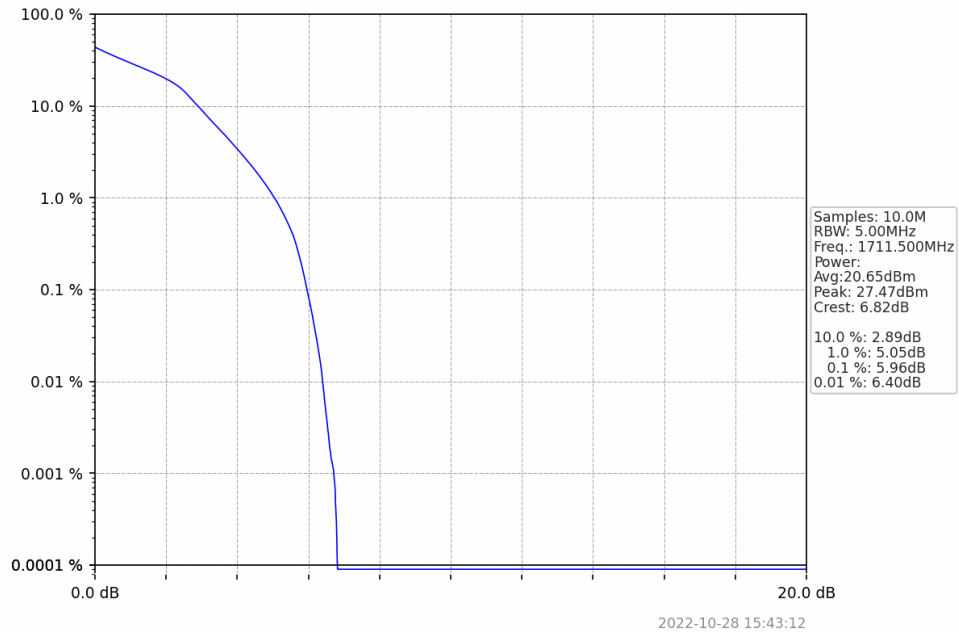


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

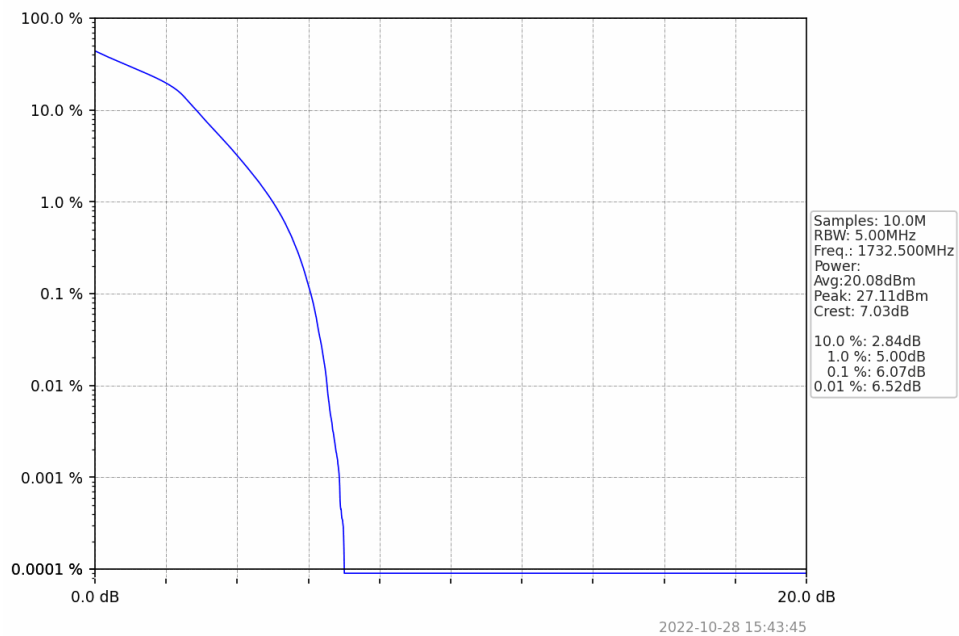


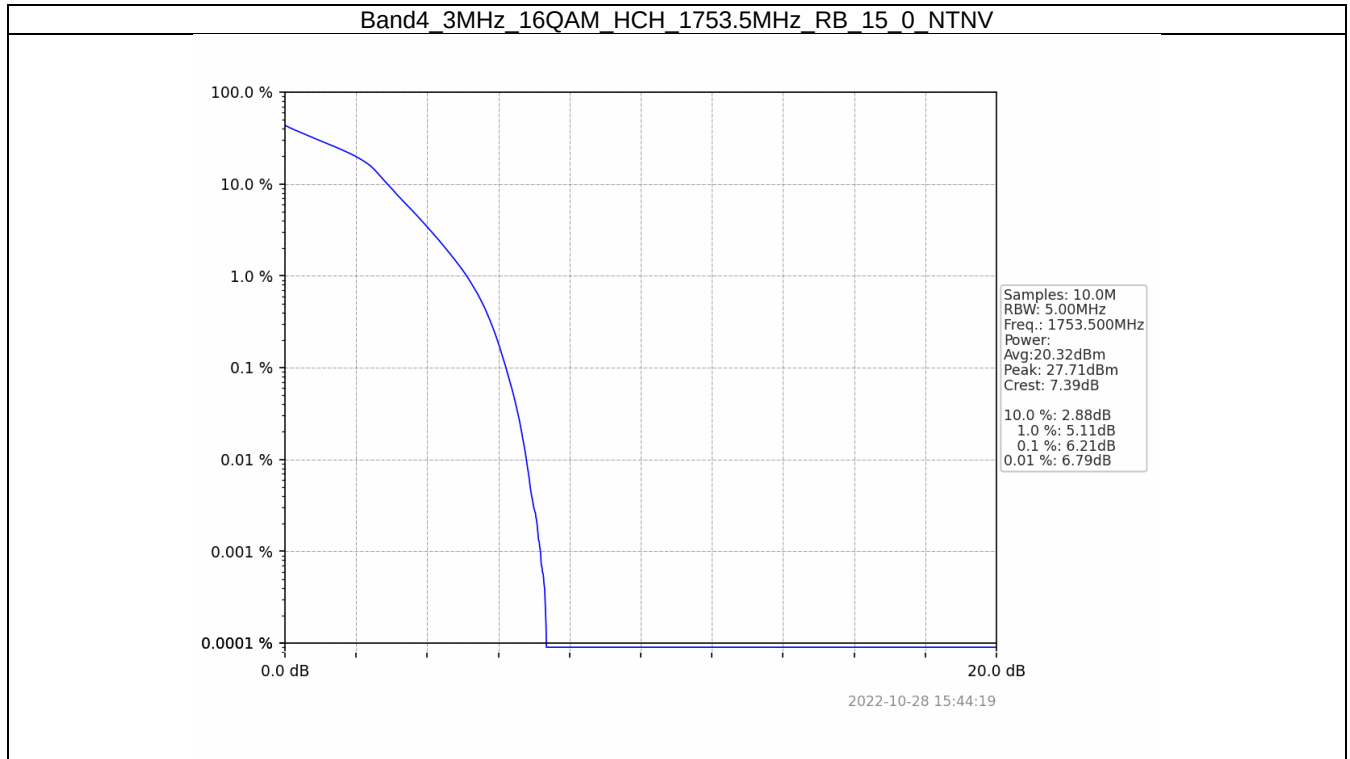


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV







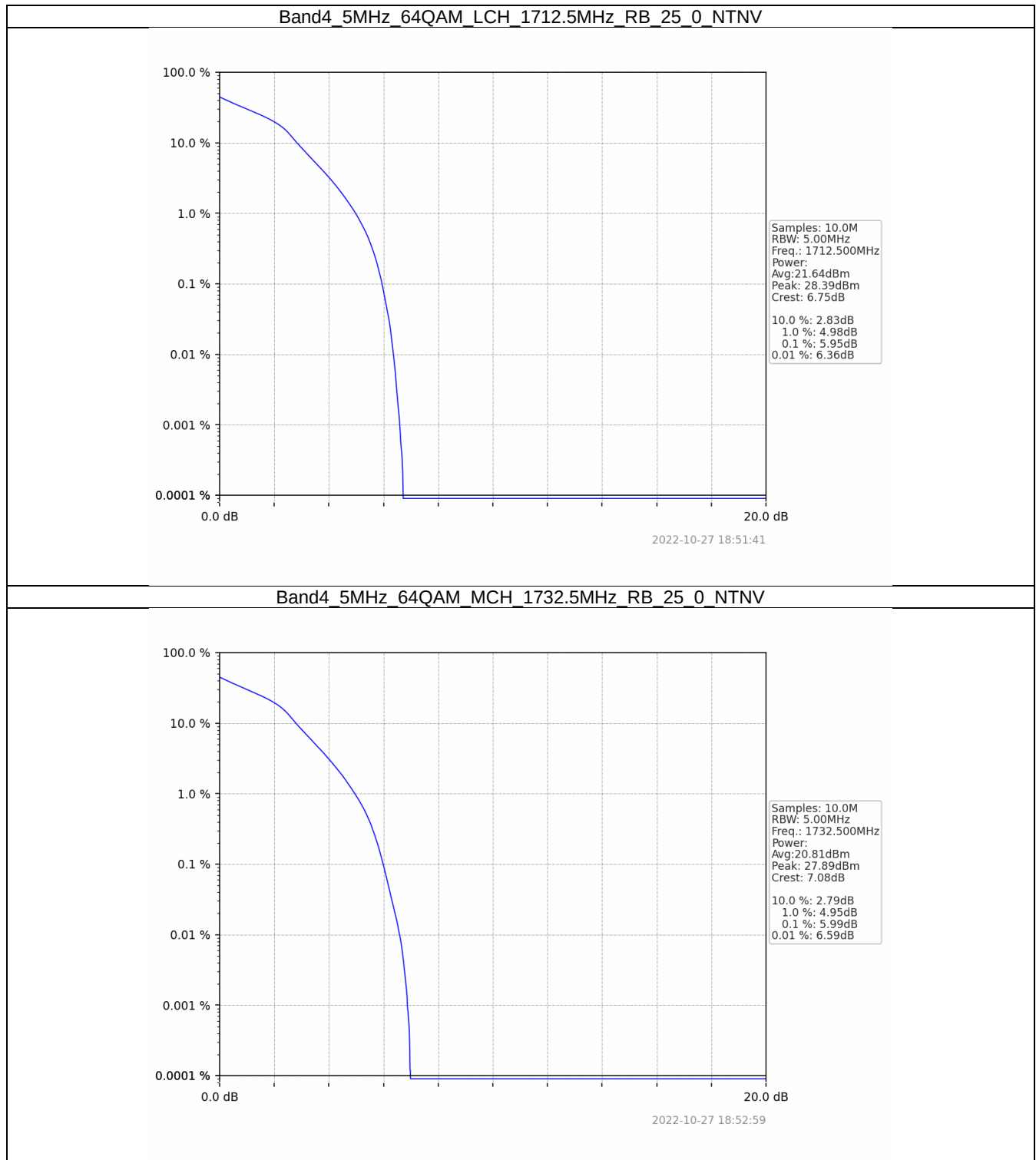
5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1712.5	25	0	5.95	<=13	Pass
	1732.5	25	0	5.99	<=13	Pass
	1752.5	25	0	6.14	<=13	Pass
QPSK	1712.5	25	0	5.20	<=13	Pass
	1732.5	25	0	5.25	<=13	Pass
	1752.5	25	0	5.36	<=13	Pass
16QAM	1712.5	25	0	5.98	<=13	Pass
	1732.5	25	0	6.03	<=13	Pass
	1752.5	25	0	6.12	<=13	Pass

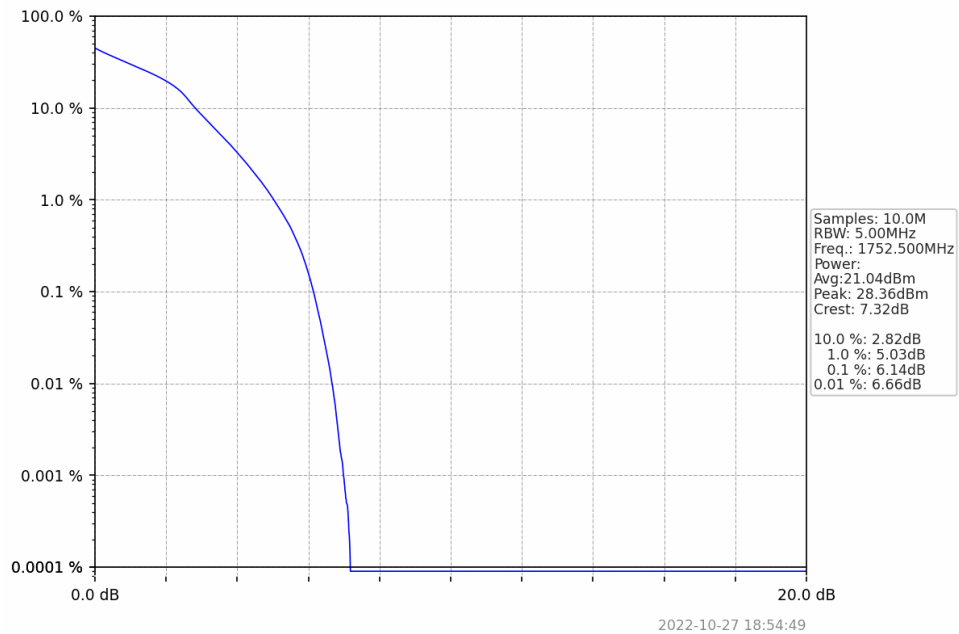


5.3.2 Test Graph

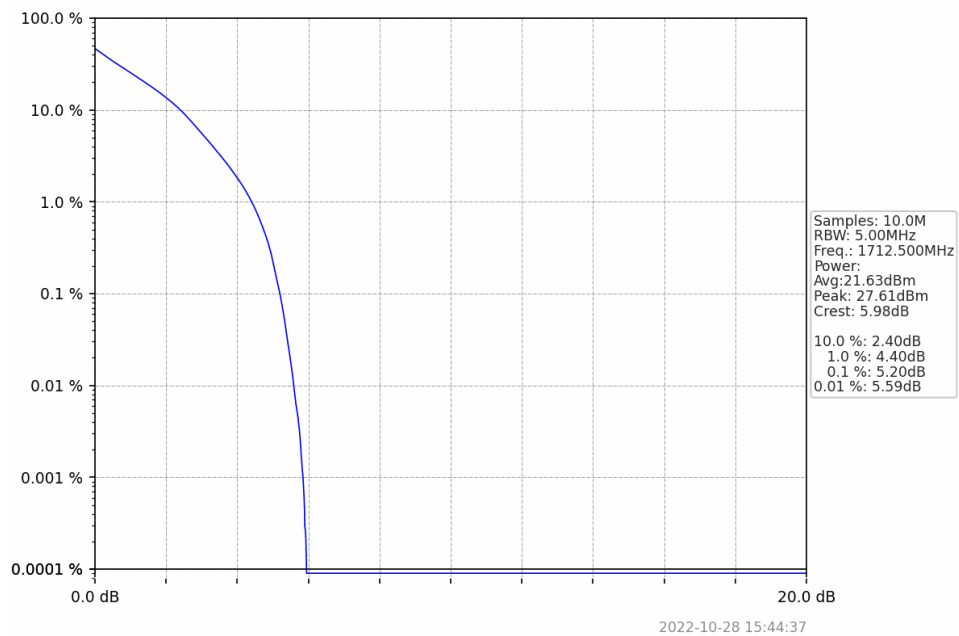




Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV

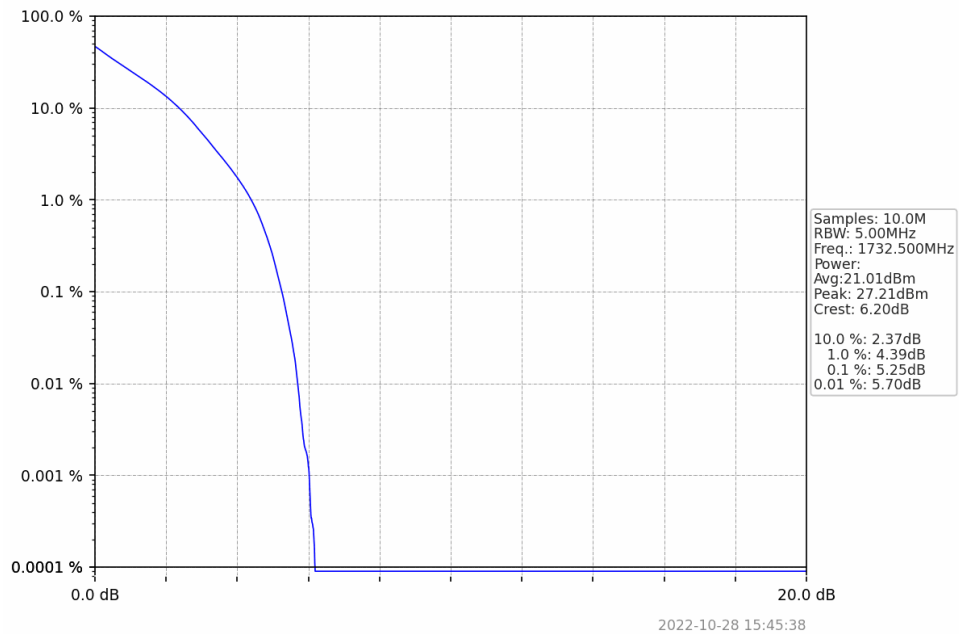


Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV

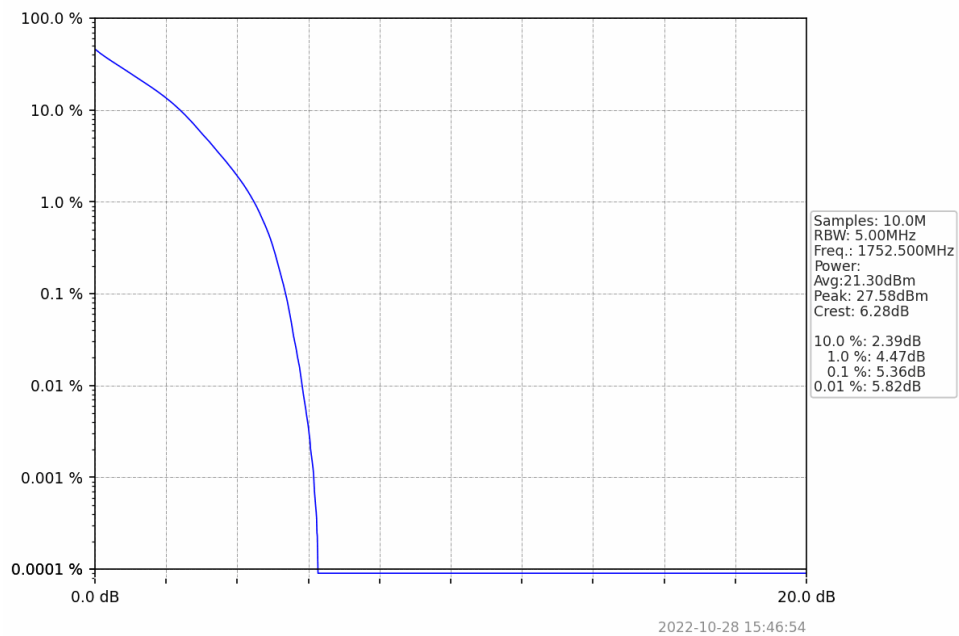




Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

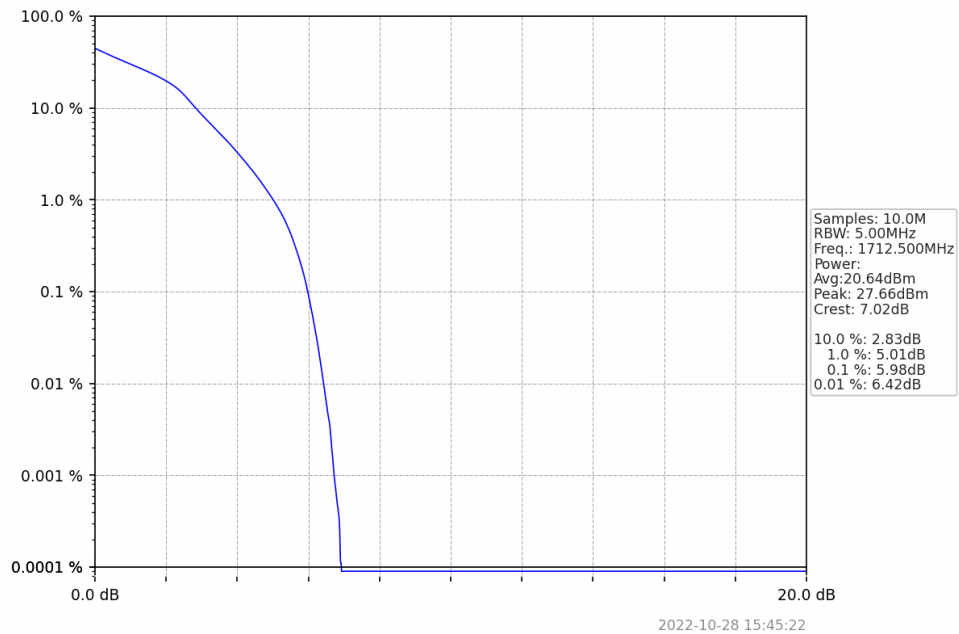


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

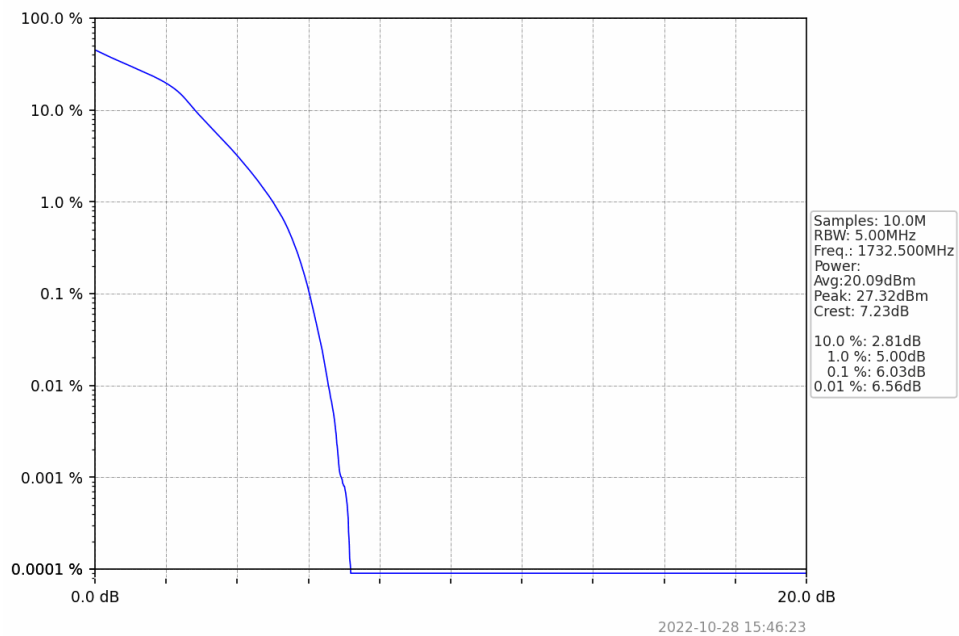


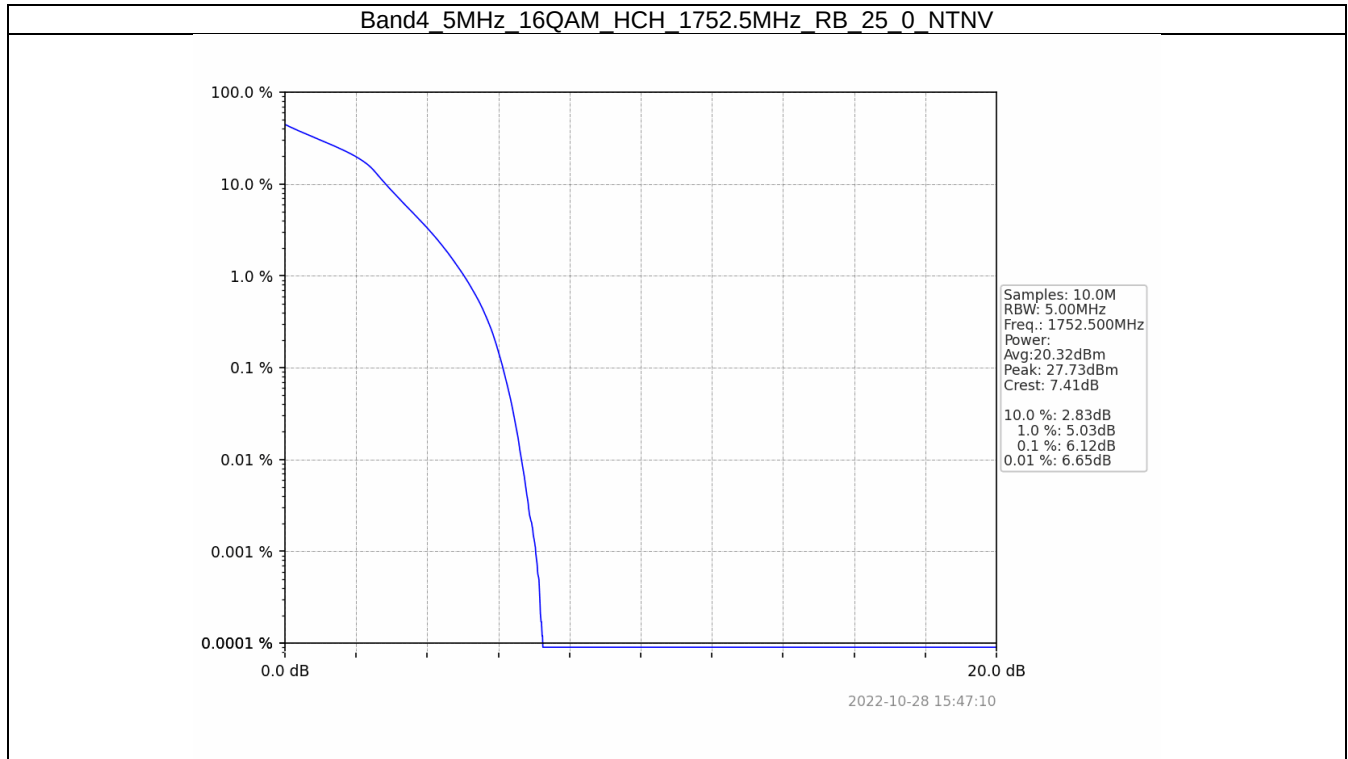


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV







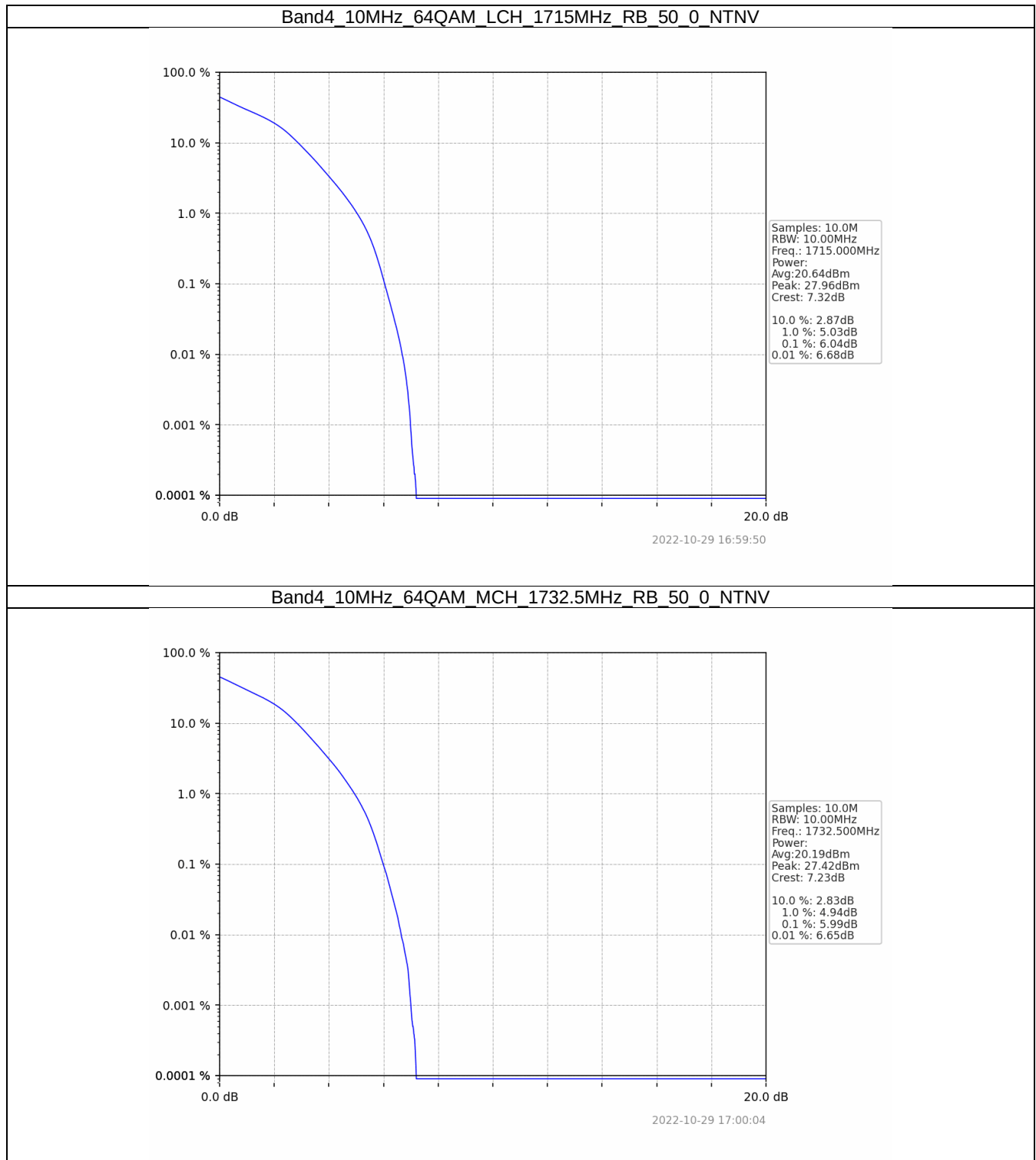
5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1715	50	0	6.04	<=13	Pass
	1732.5	50	0	5.99	<=13	Pass
	1750	50	0	6.49	<=13	Pass
QPSK	1715	50	0	5.29	<=13	Pass
	1732.5	50	0	5.20	<=13	Pass
	1750	50	0	5.38	<=13	Pass
16QAM	1715	50	0	6.51	<=13	Pass
	1732.5	50	0	6.02	<=13	Pass
	1750	50	0	6.49	<=13	Pass

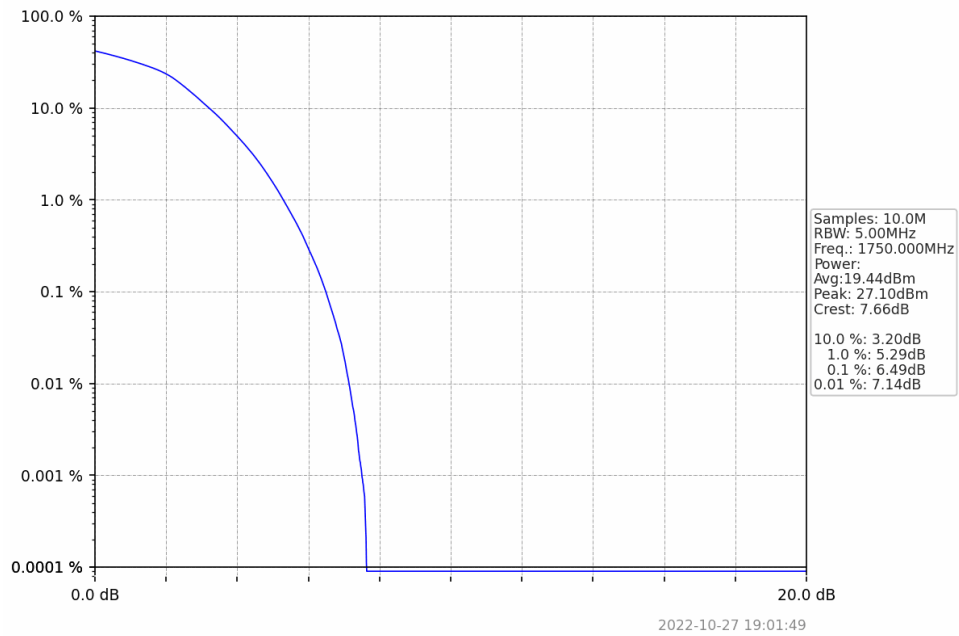


5.4.2 Test Graph

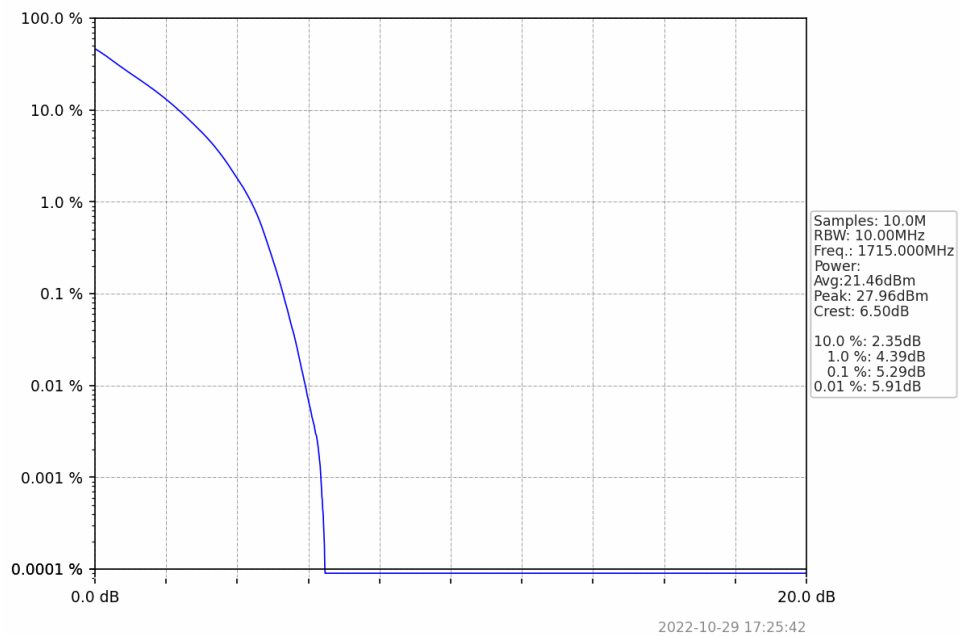




Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV

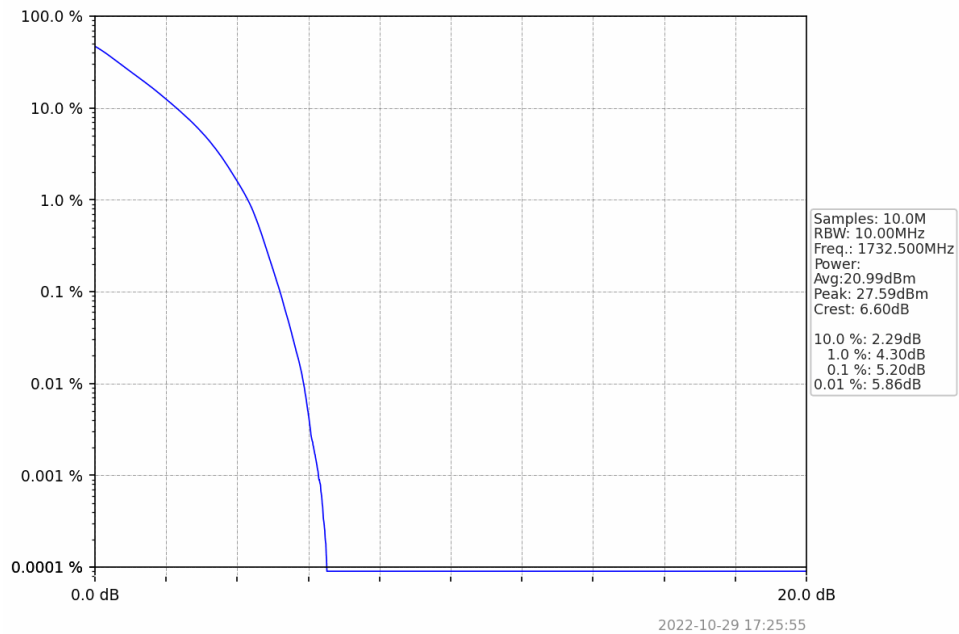


Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

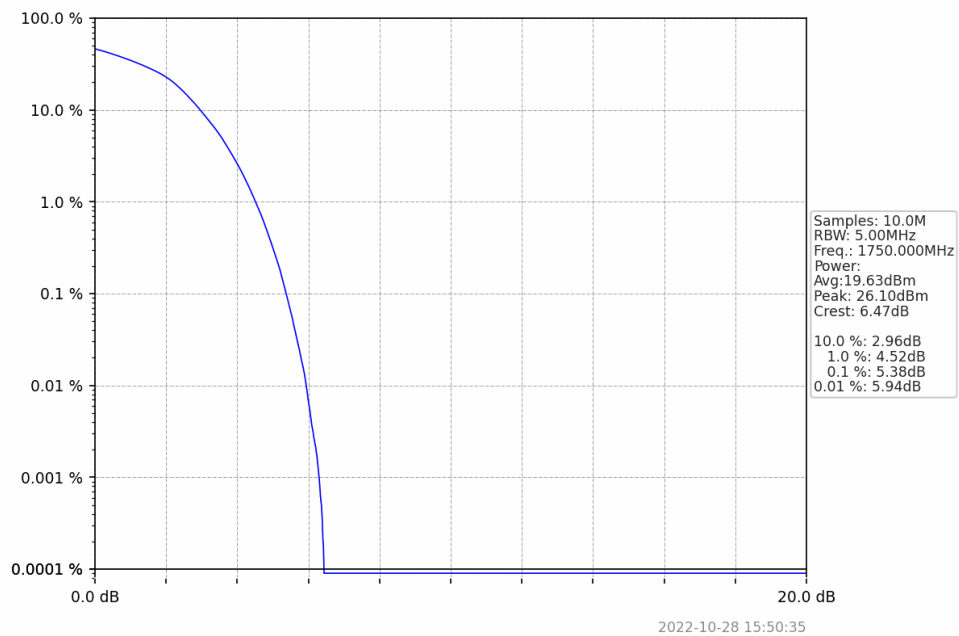




Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

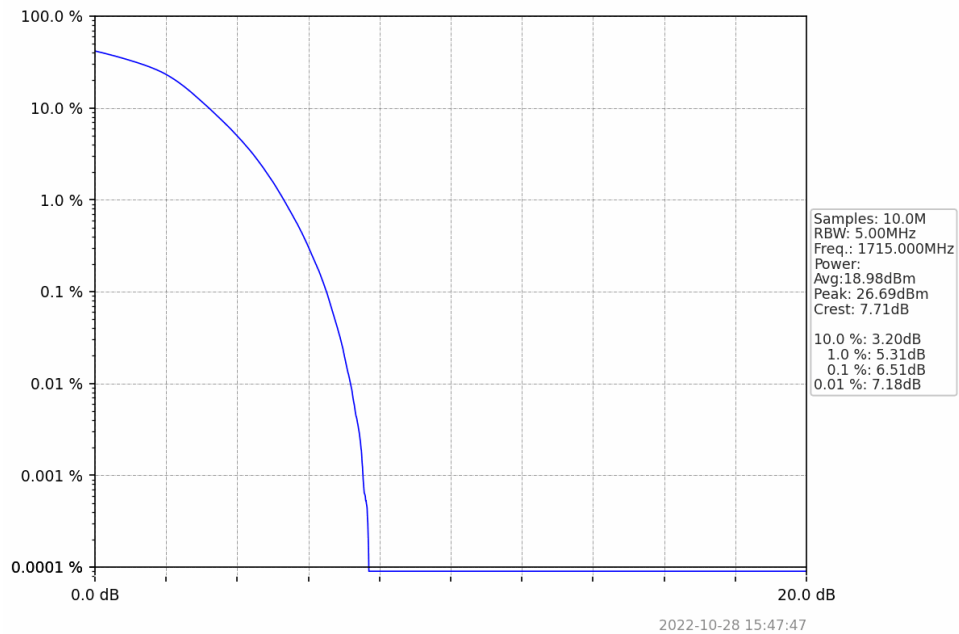


Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

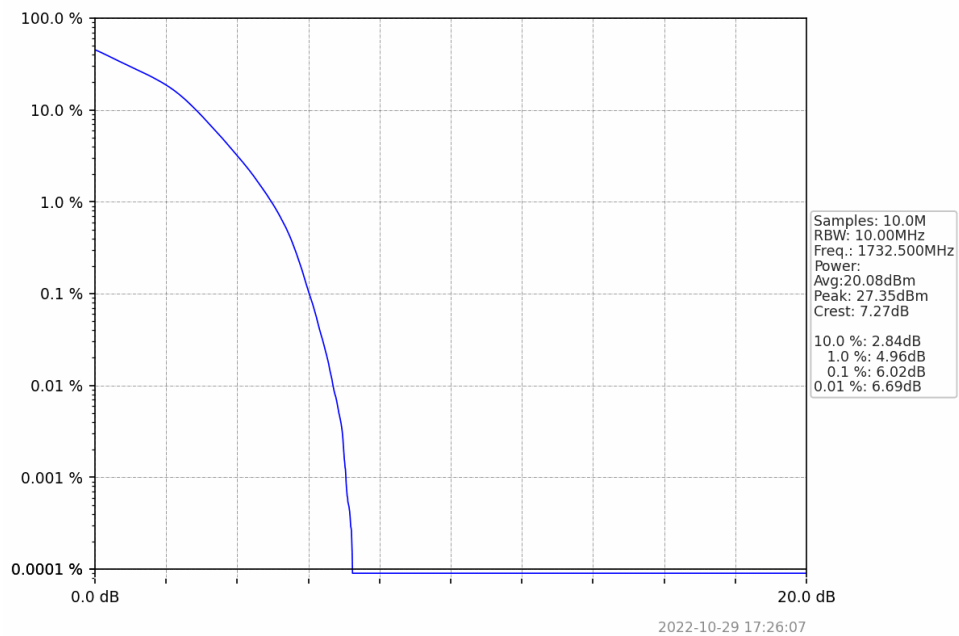


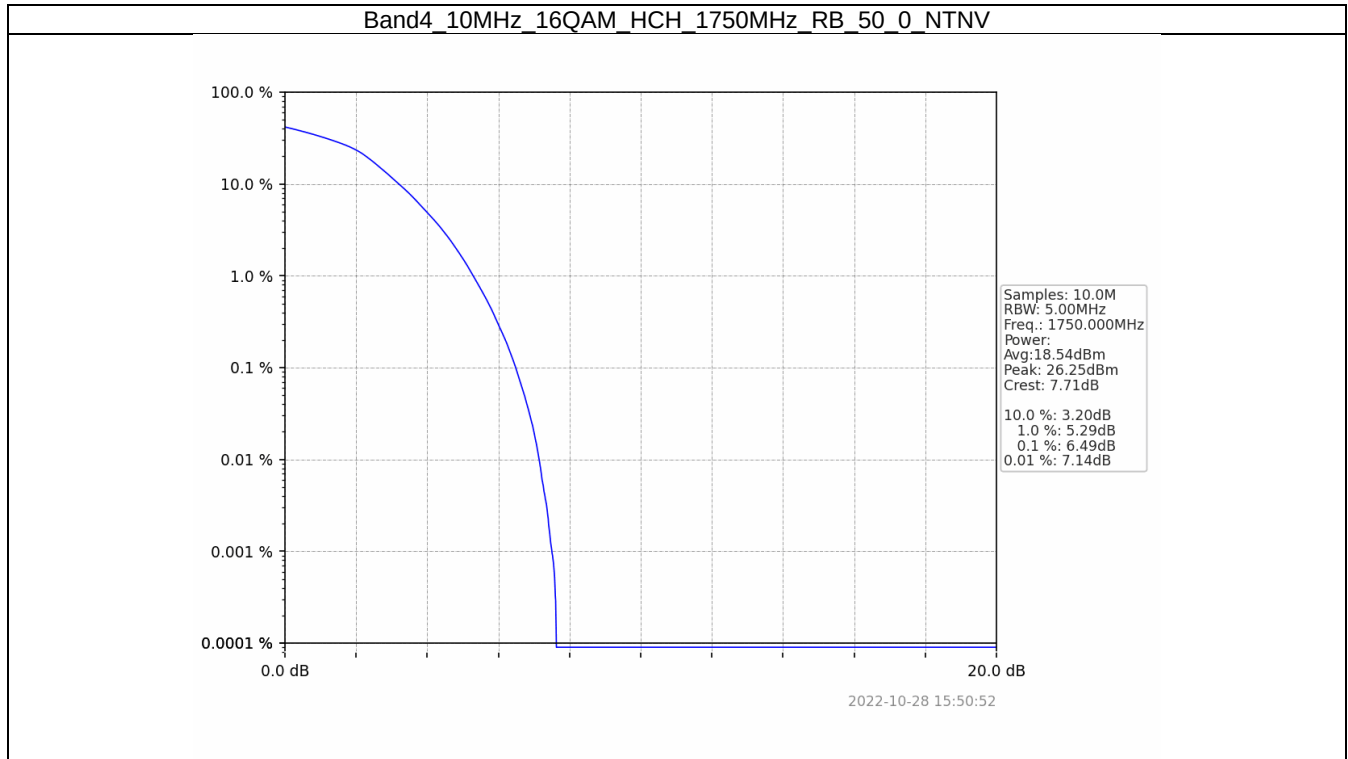


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV







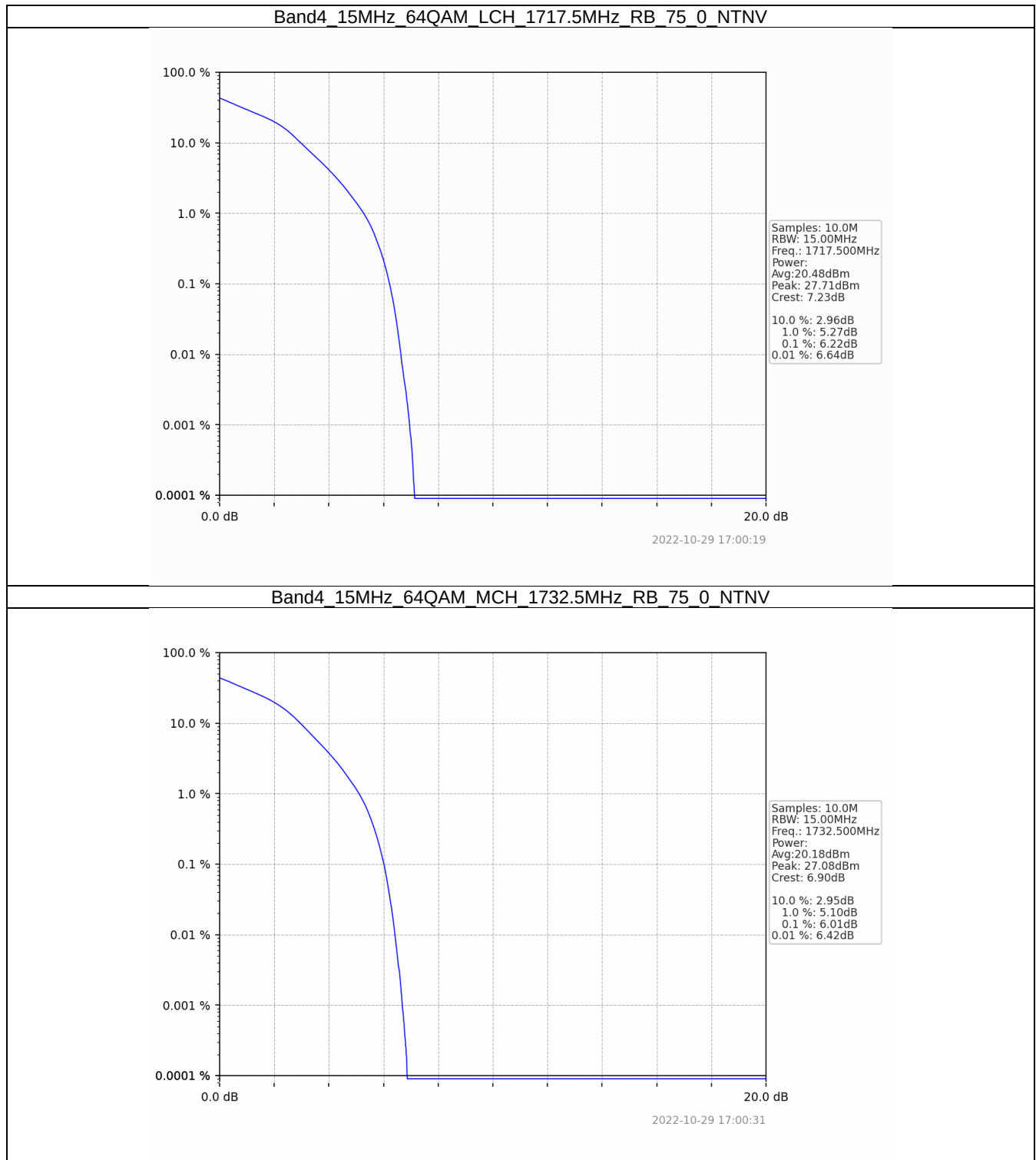
5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1717.5	75	0	6.22	<=13	Pass
	1732.5	75	0	6.01	<=13	Pass
	1747.5	75	0	6.13	<=13	Pass
QPSK	1717.5	75	0	5.53	<=13	Pass
	1732.5	75	0	5.33	<=13	Pass
	1747.5	75	0	5.44	<=13	Pass
16QAM	1717.5	75	0	6.22	<=13	Pass
	1732.5	75	0	6.04	<=13	Pass
	1747.5	75	0	6.11	<=13	Pass

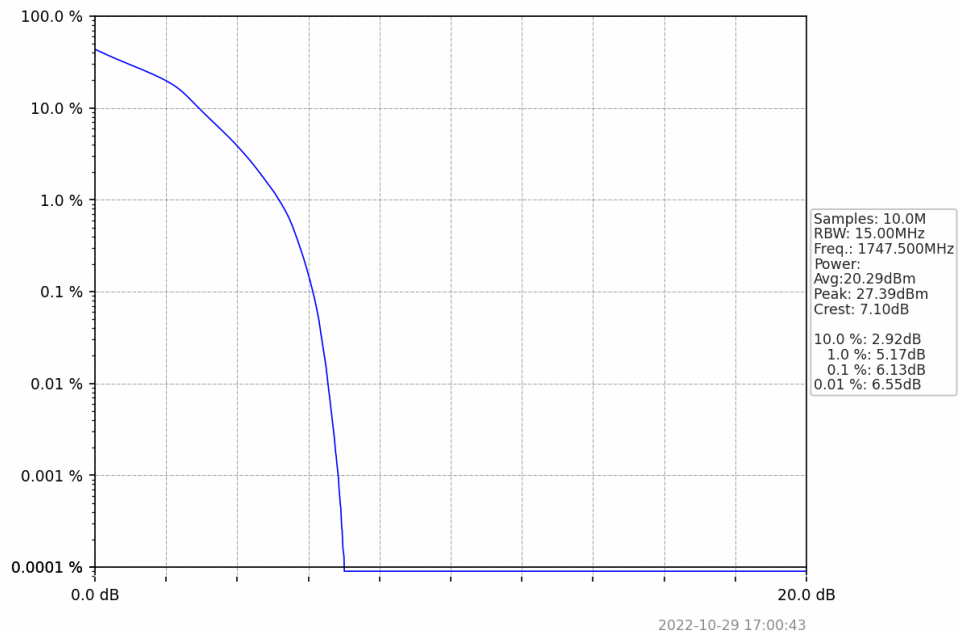


5.5.2 Test Graph

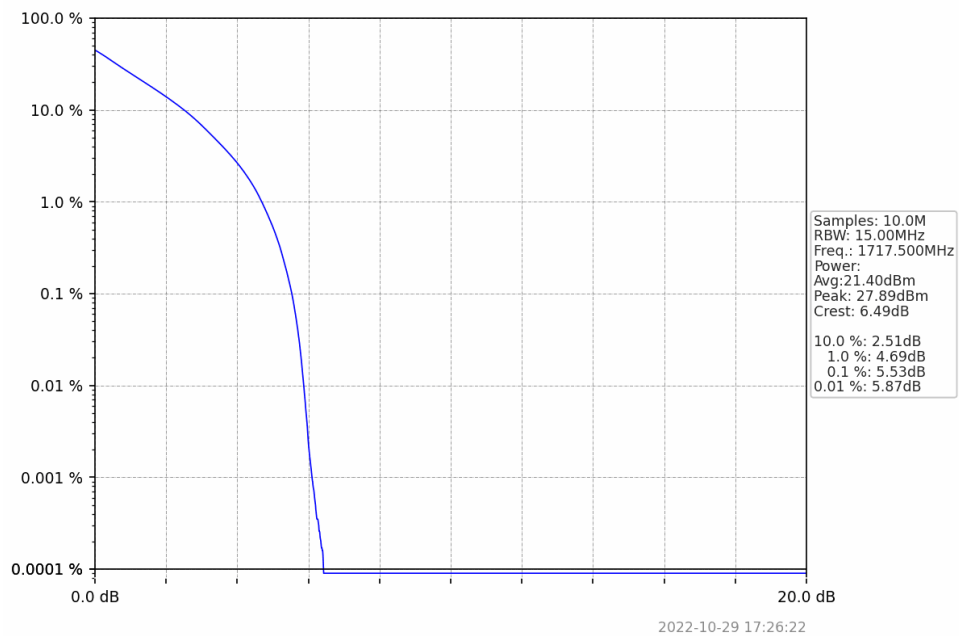




Band4_15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV

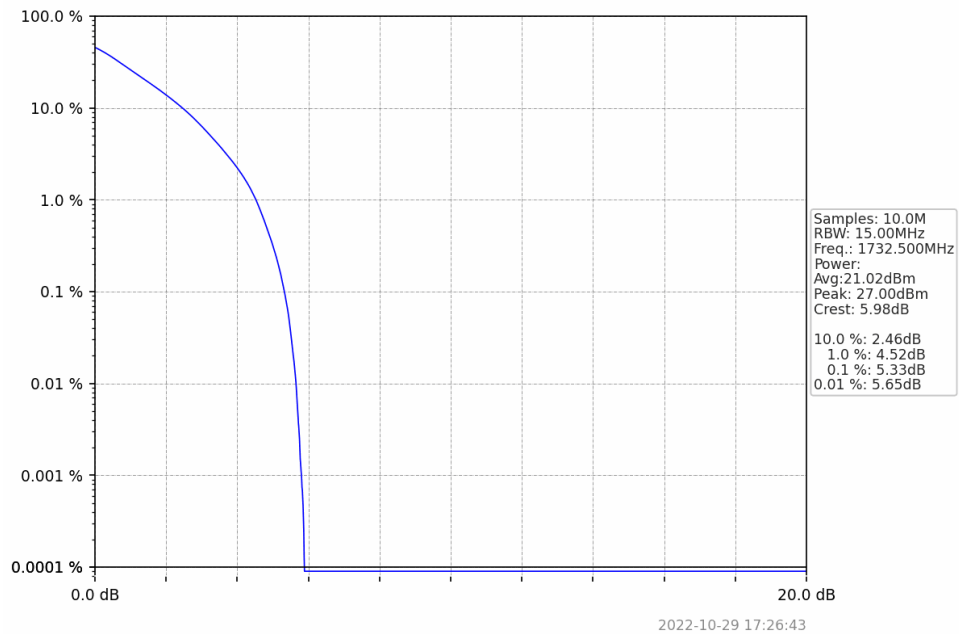


Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

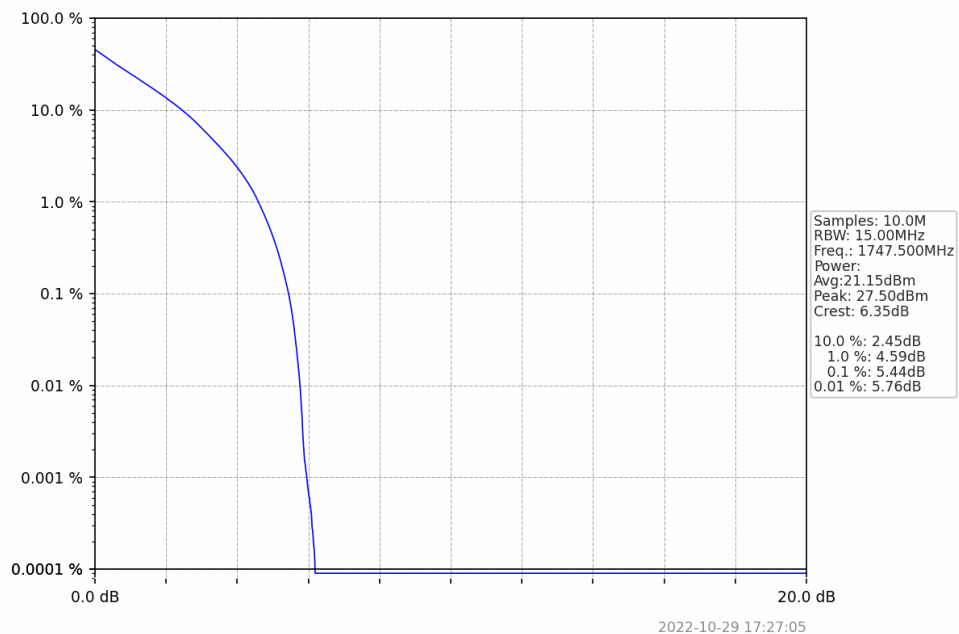




Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

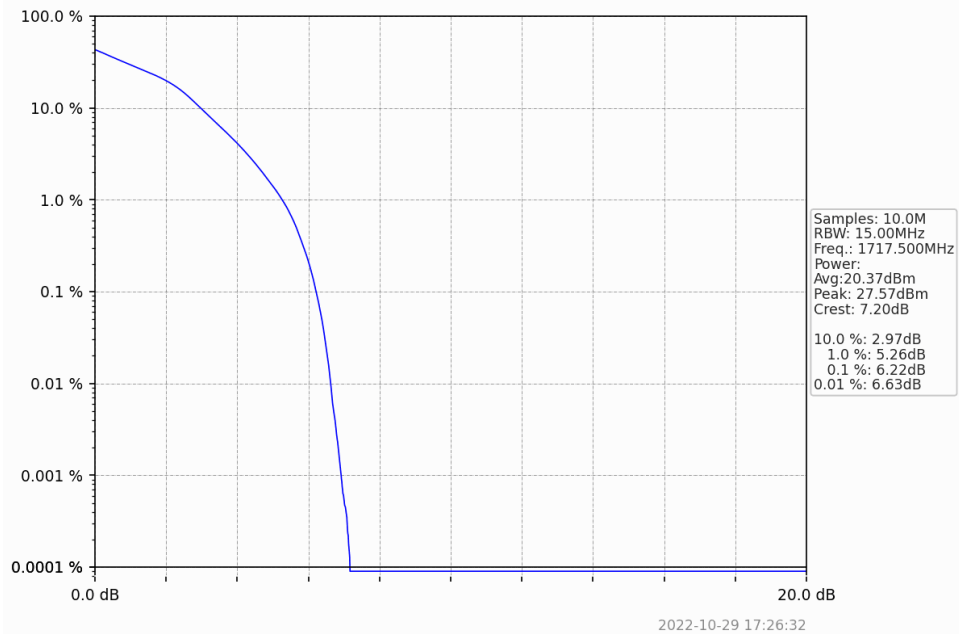


Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

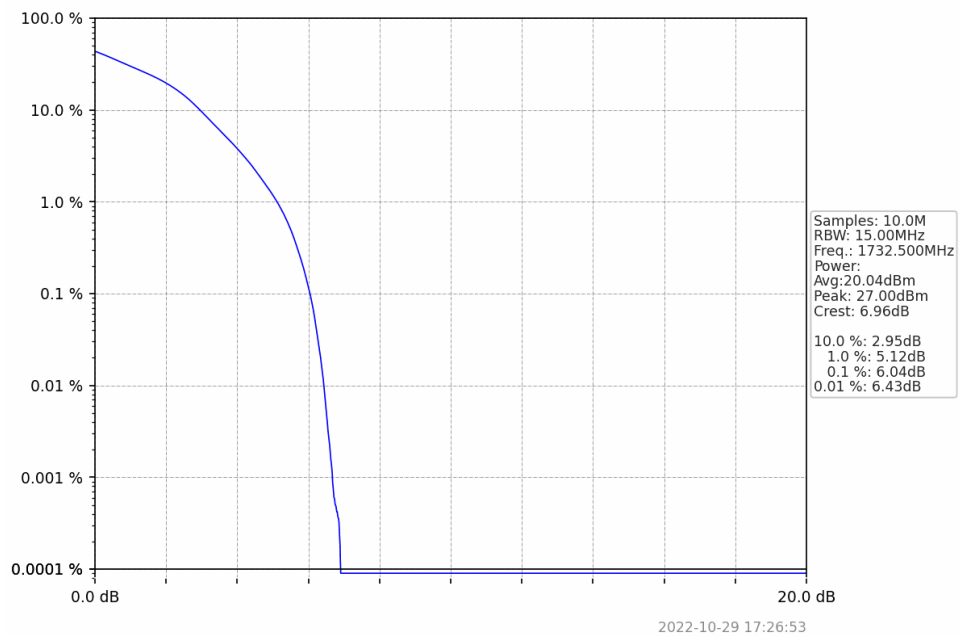


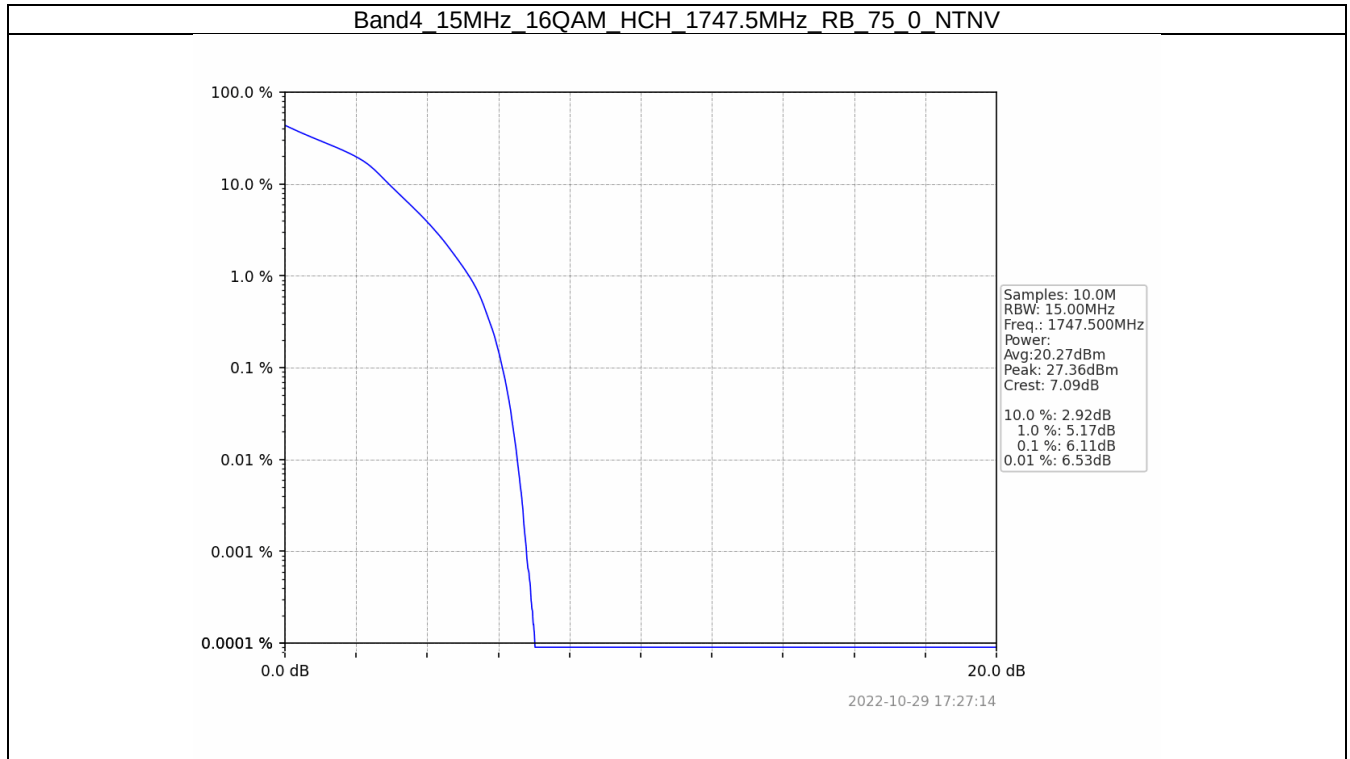


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV







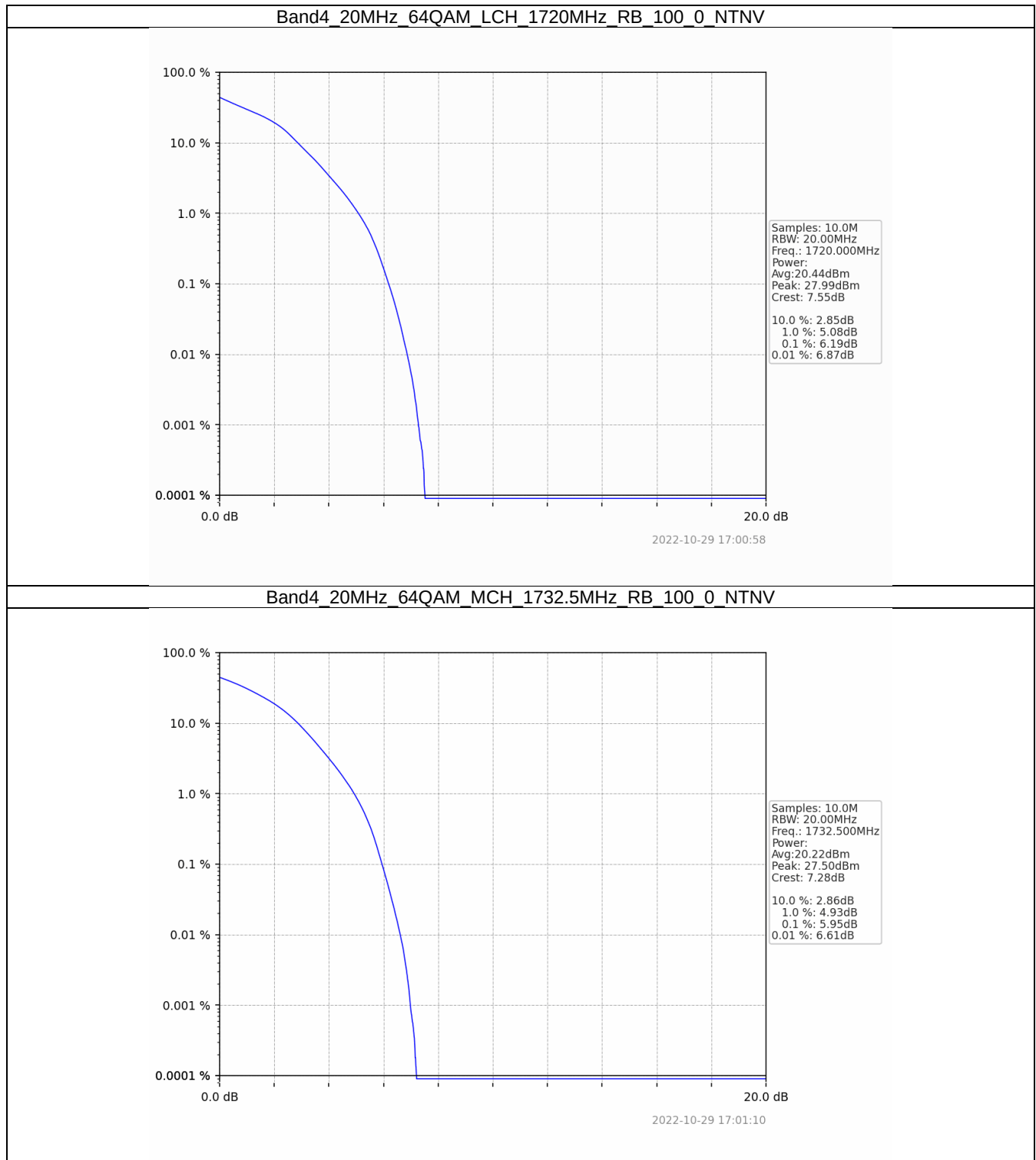
5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	1720	100	0	6.19	<=13	Pass
	1732.5	100	0	5.95	<=13	Pass
	1745	100	0	7.34	<=13	Pass
QPSK	1720	100	0	5.41	<=13	Pass
	1732.5	100	0	5.12	<=13	Pass
	1745	100	0	5.24	<=13	Pass
16QAM	1720	100	0	6.19	<=13	Pass
	1732.5	100	0	5.97	<=13	Pass
	1745	100	0	7.40	<=13	Pass

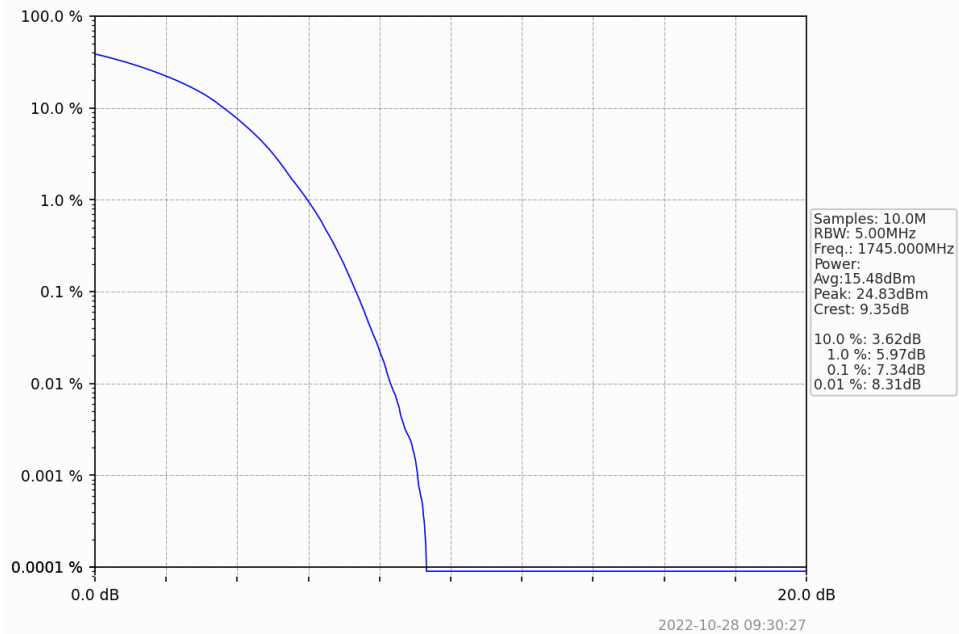


5.6.2 Test Graph

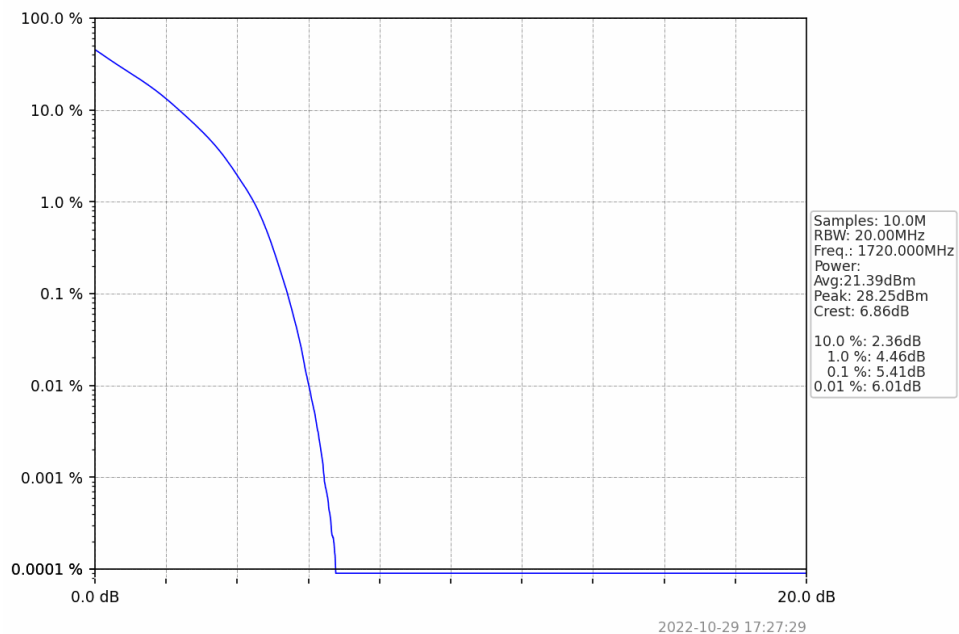




Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV

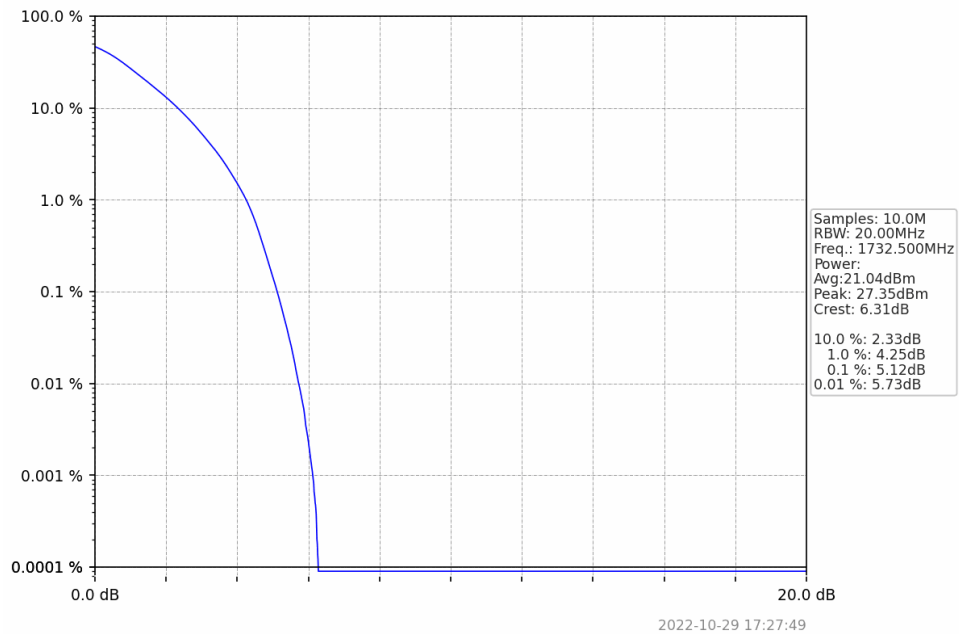


Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

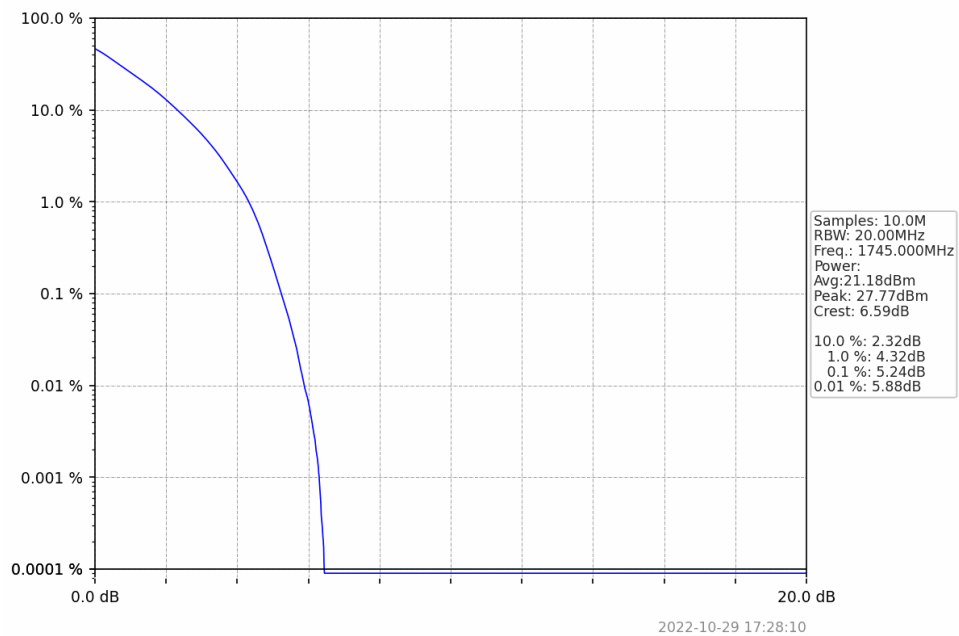




Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

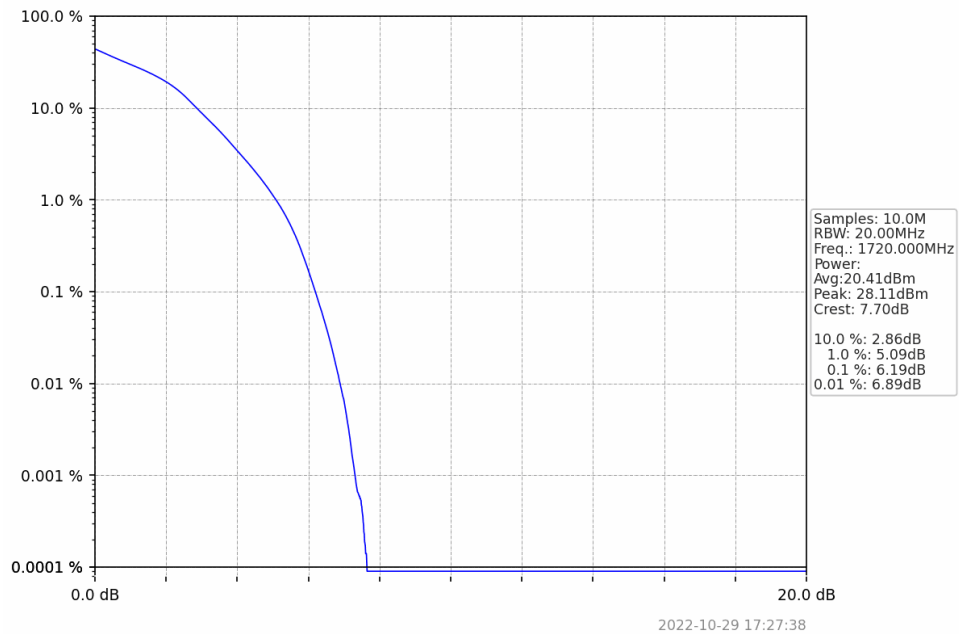


Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

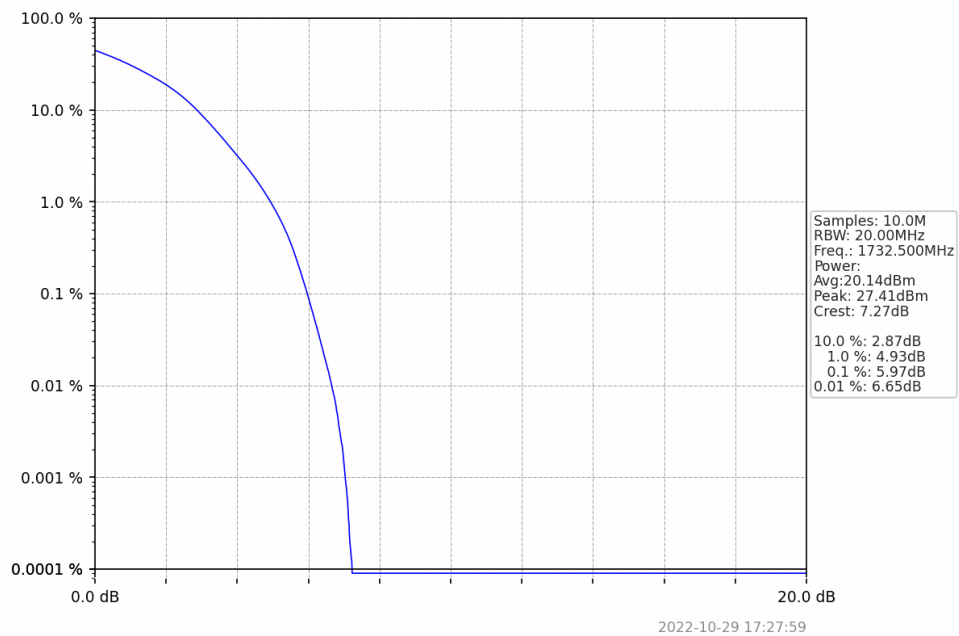


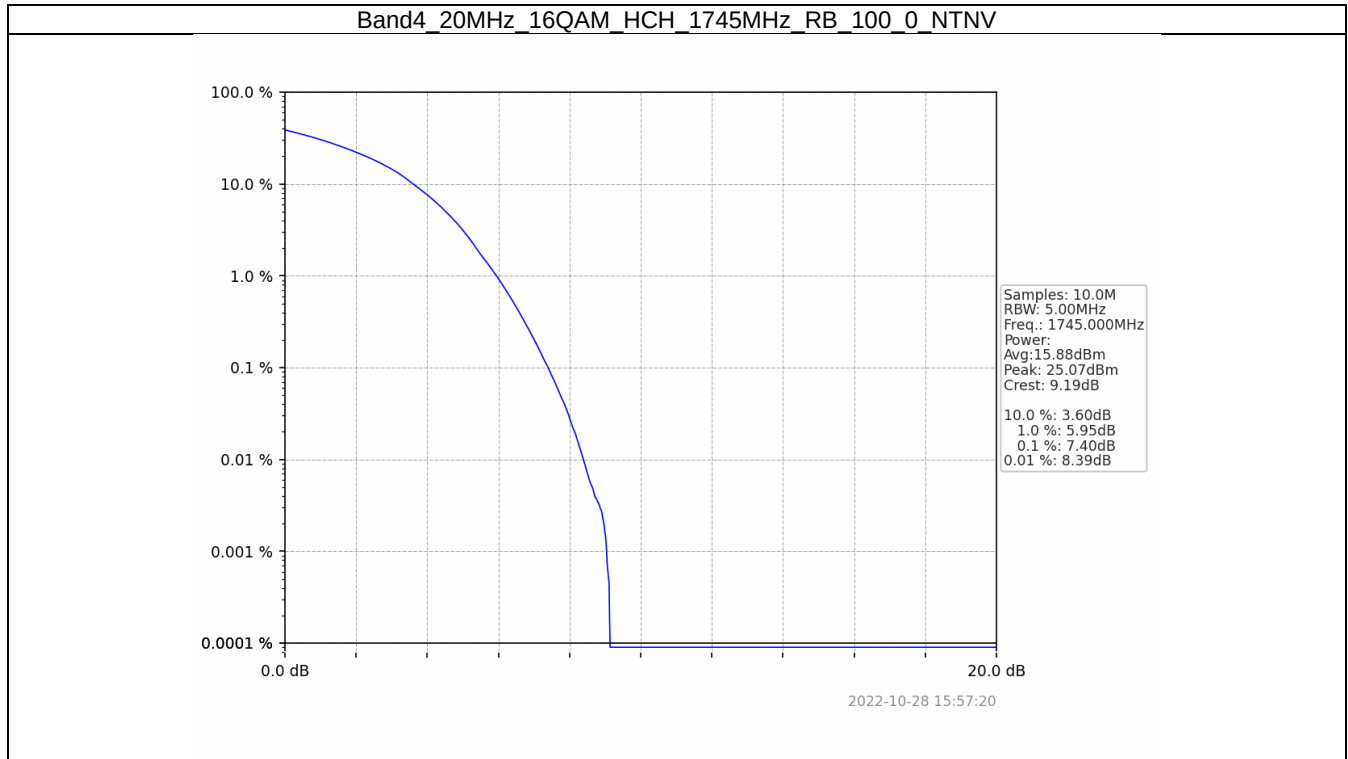


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV







6. Spurious Emission

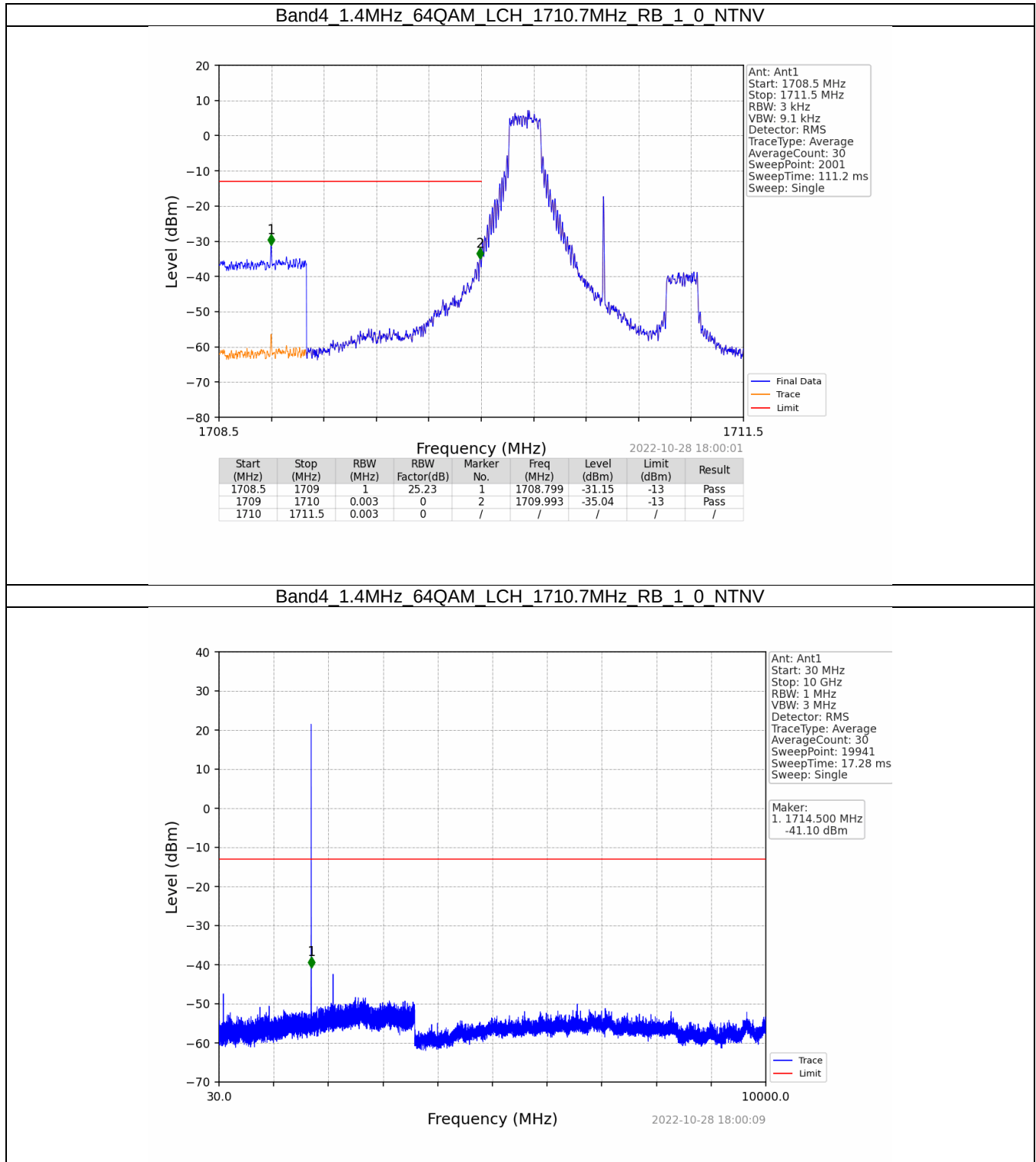
6.1 B4_1.4MHz

6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
64QAM	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
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
16QAM	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

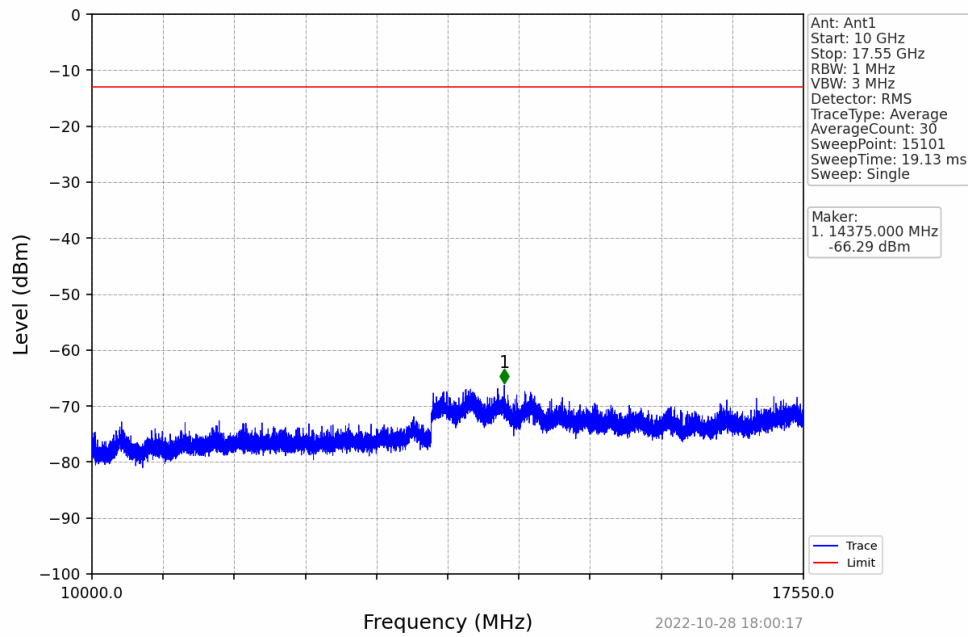


6.1.2 Test Graph

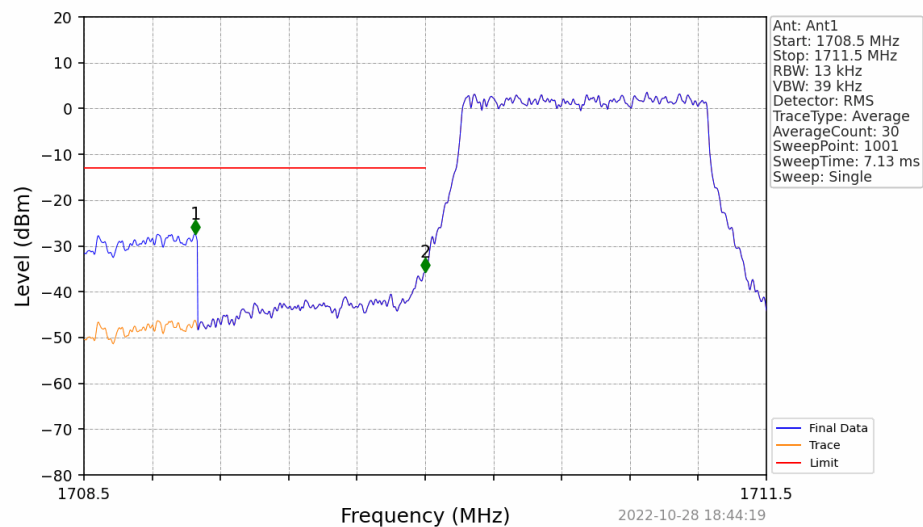




Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



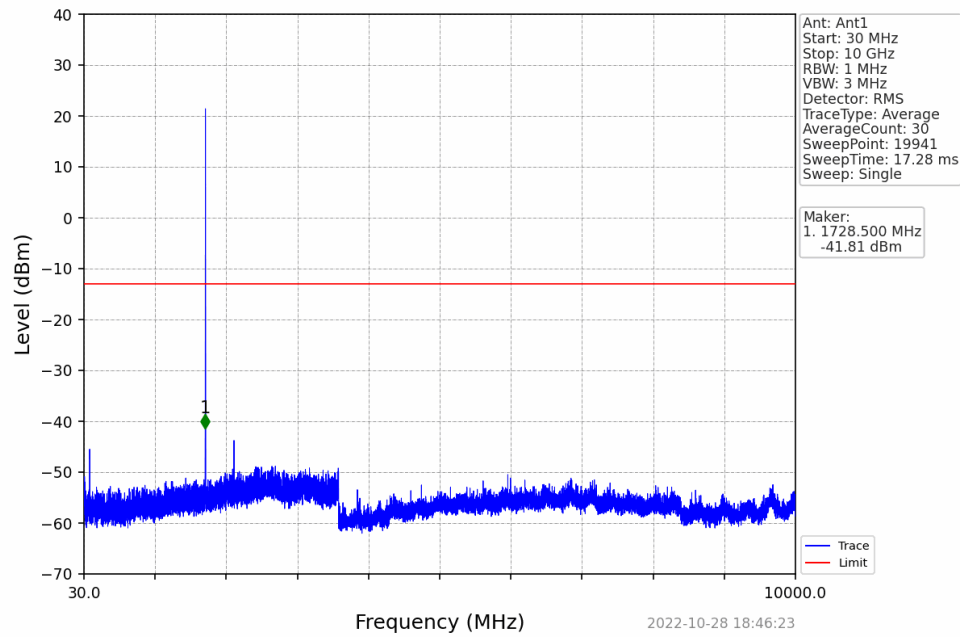
Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



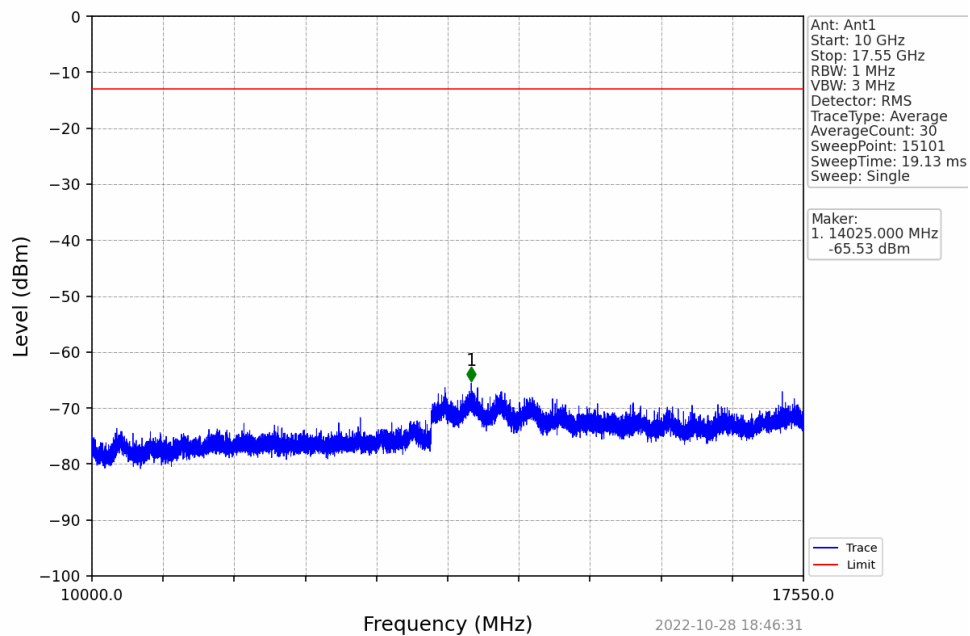
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	18.86	1	1708.989	-27.40	-13	Pass
1709	1710	0.013	0	2	1710.000	-35.75	-13	Pass
1710	1711.5	0.013	0	/	/	/	/	/



Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_1_0_NTNV

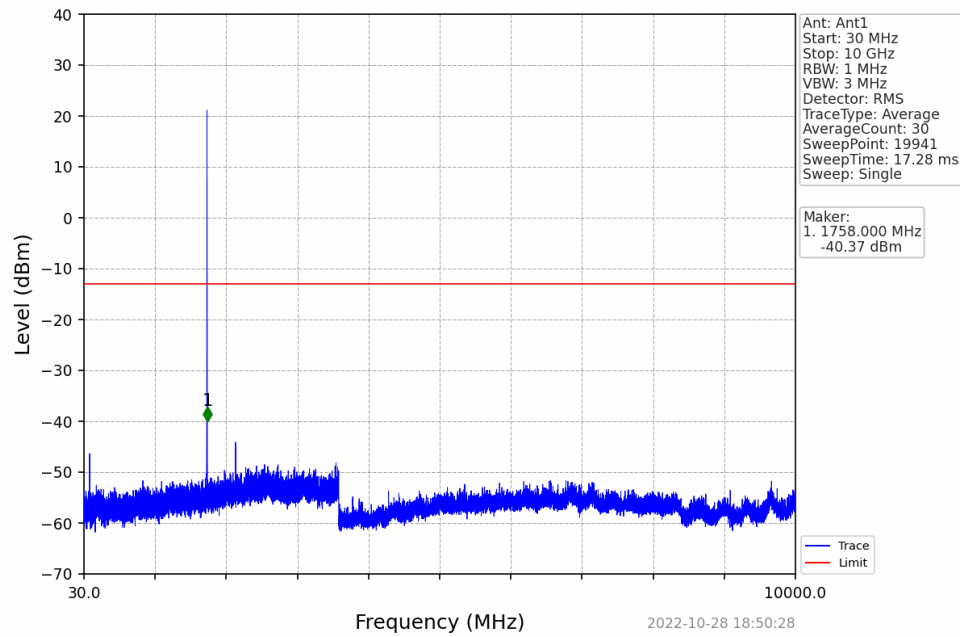


Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_1_0_NTNV





Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_1_0_NTNV

