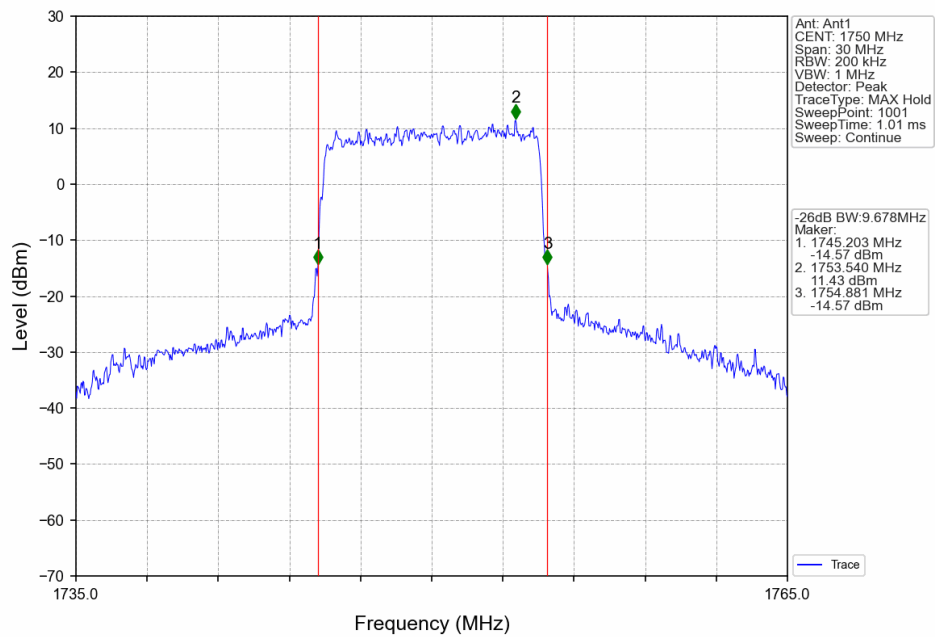
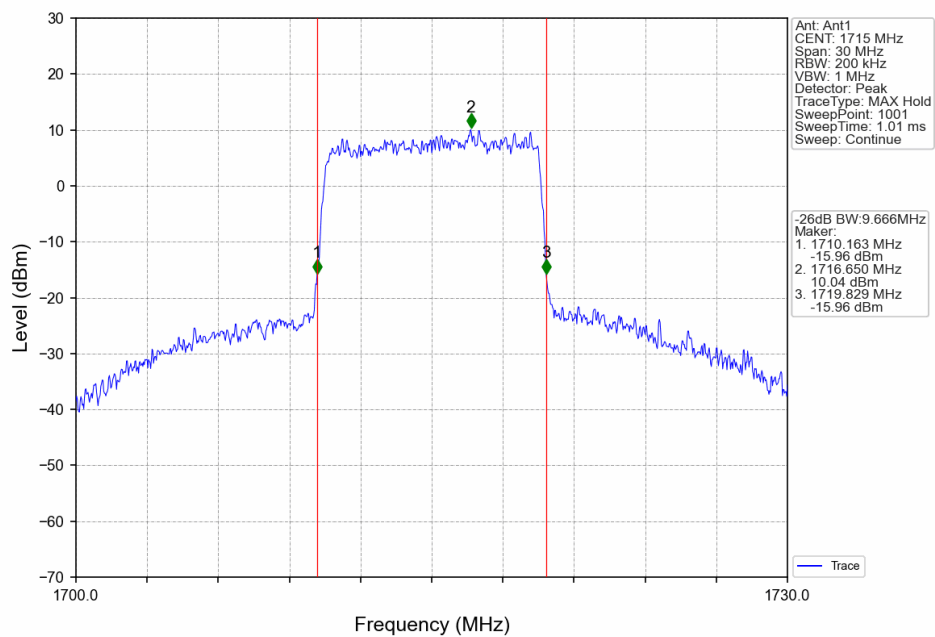




Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

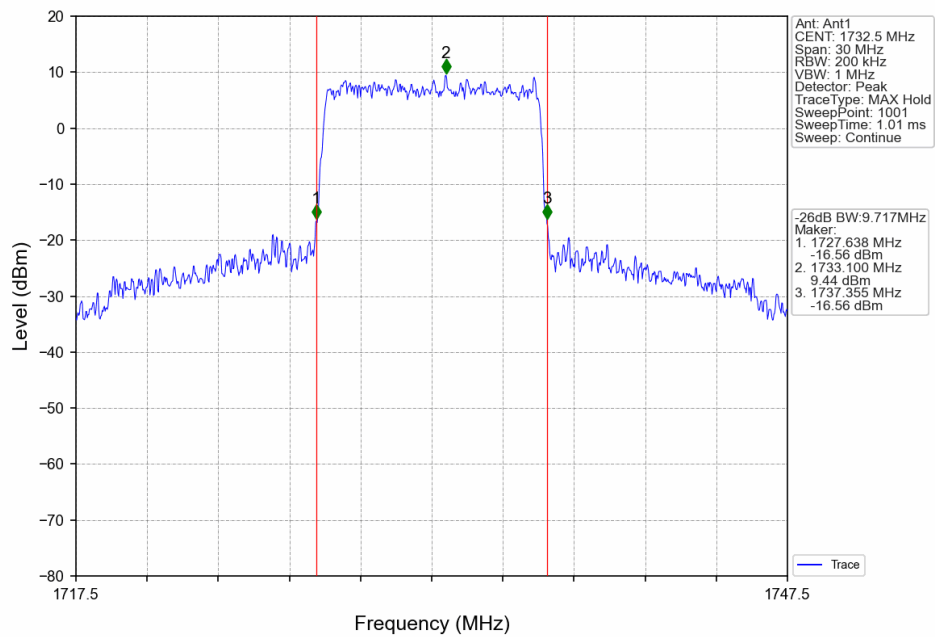


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

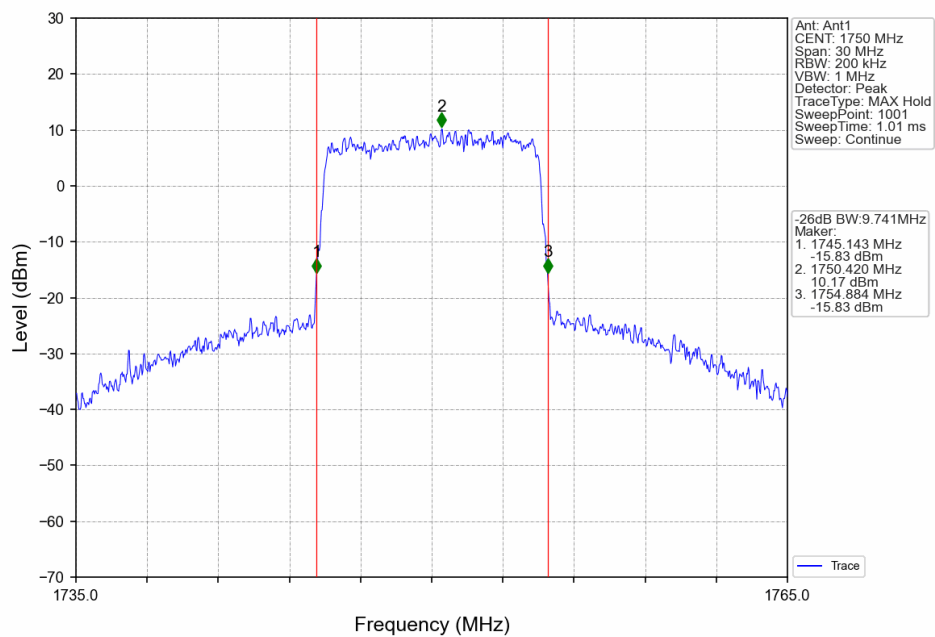




Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

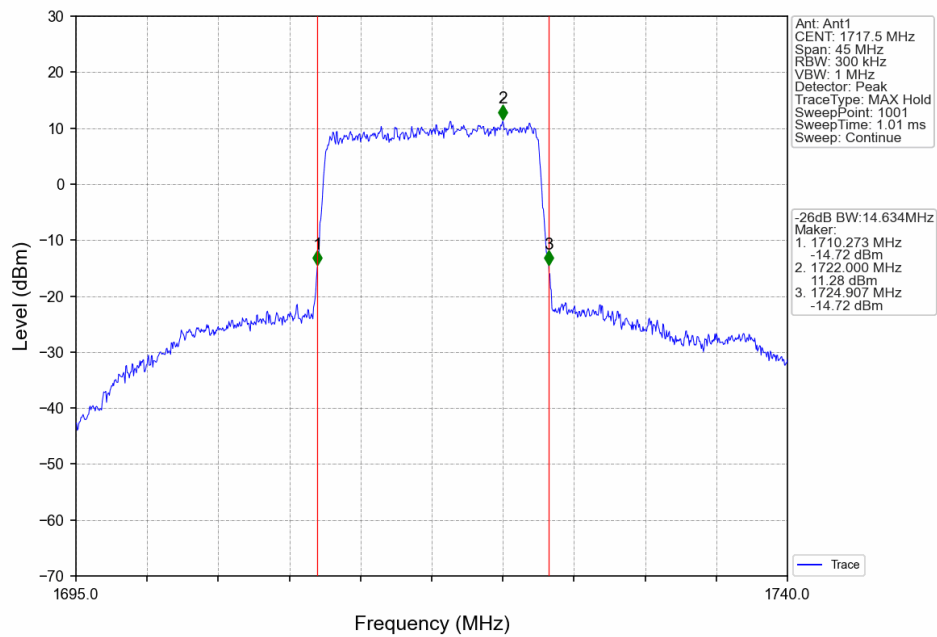


Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

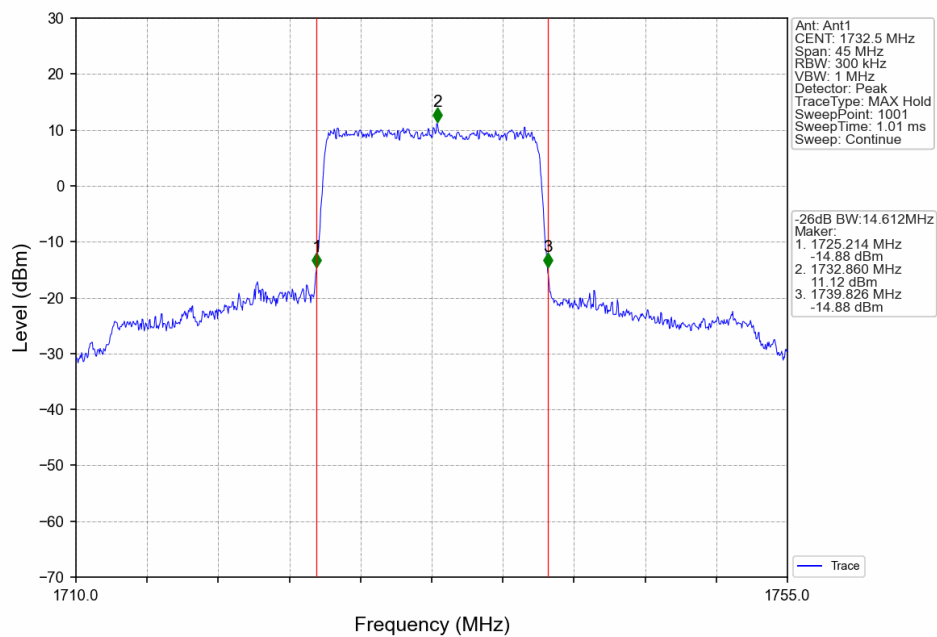




Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

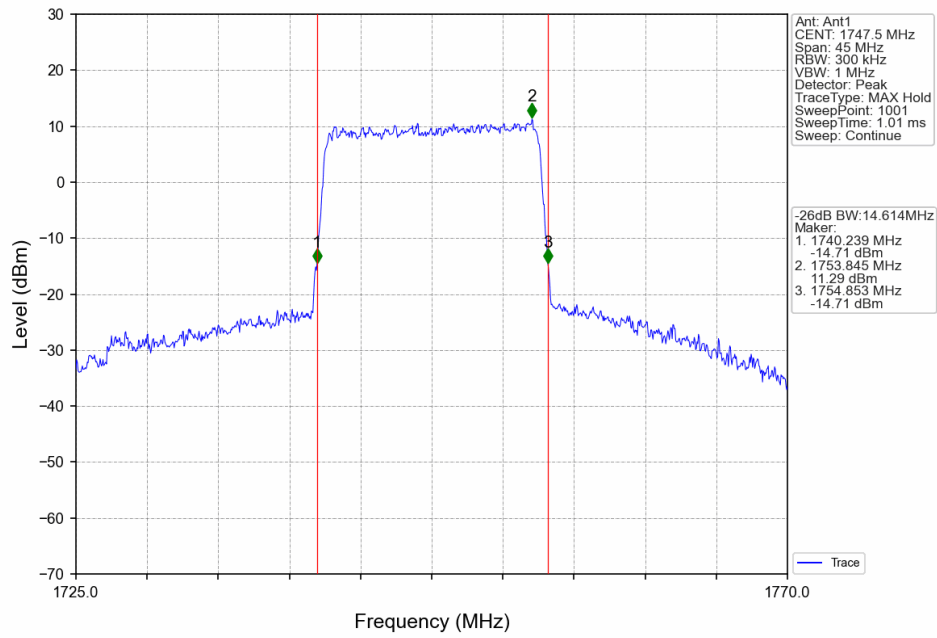


Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV

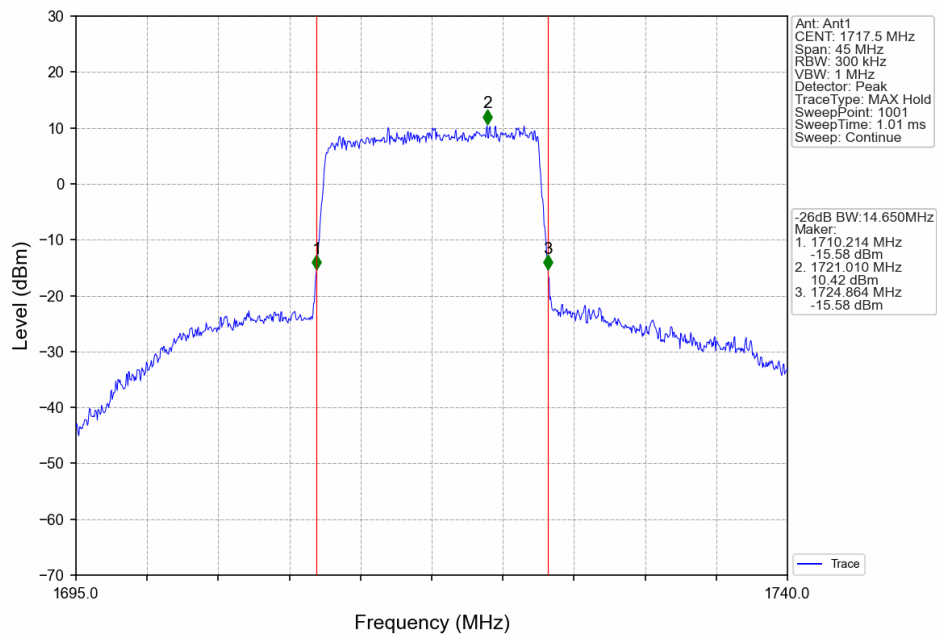




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

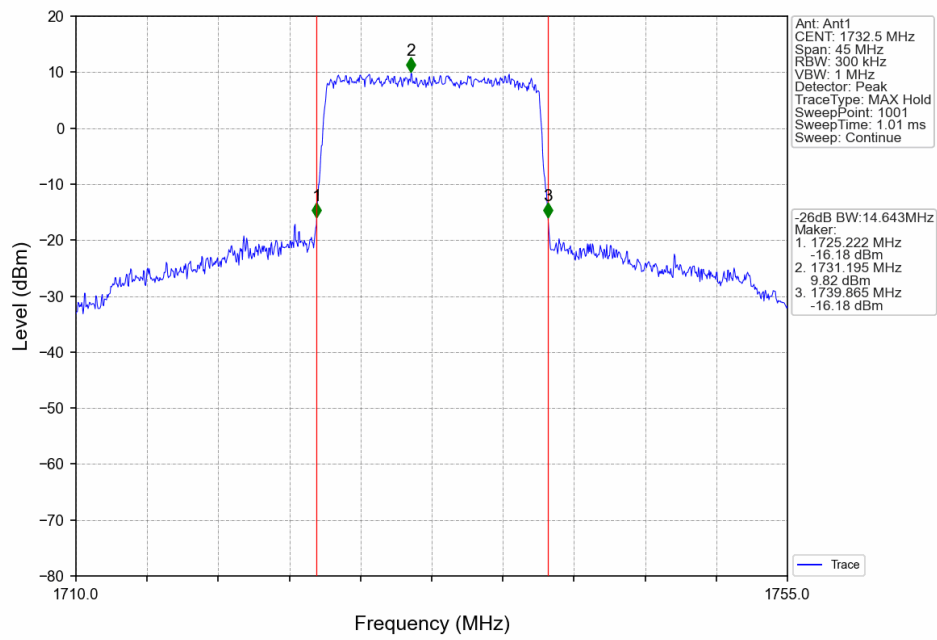


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

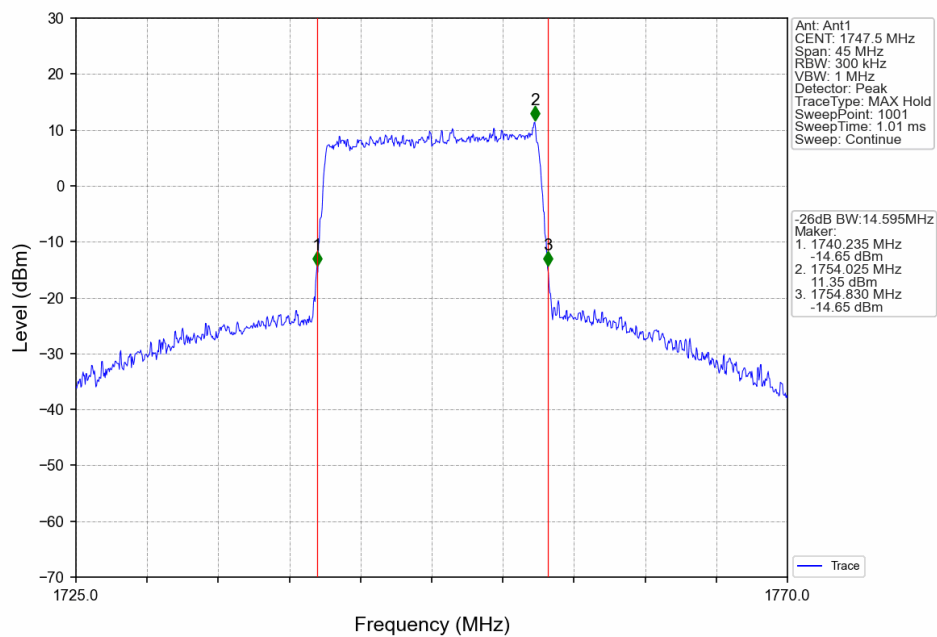




Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

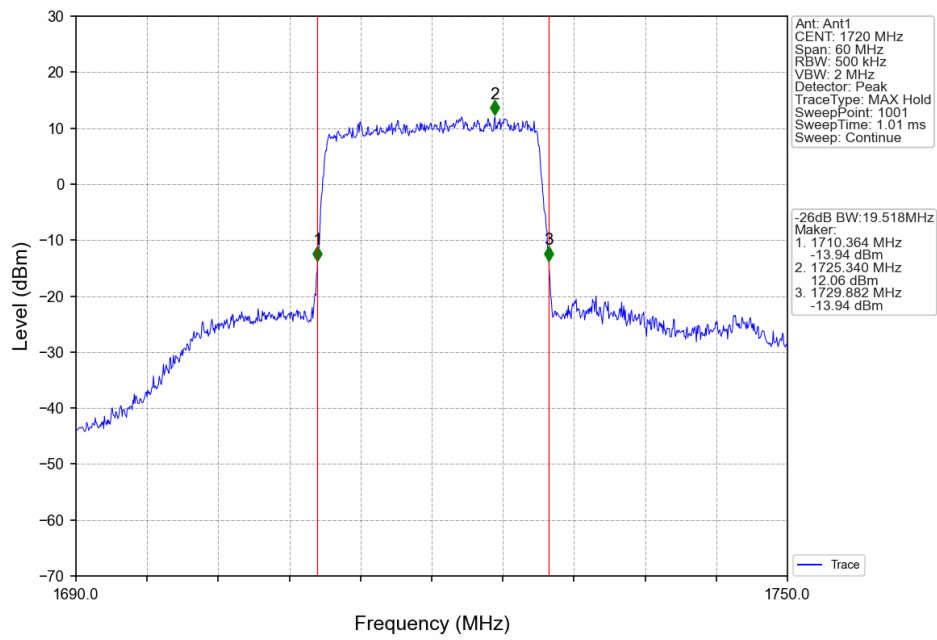


Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

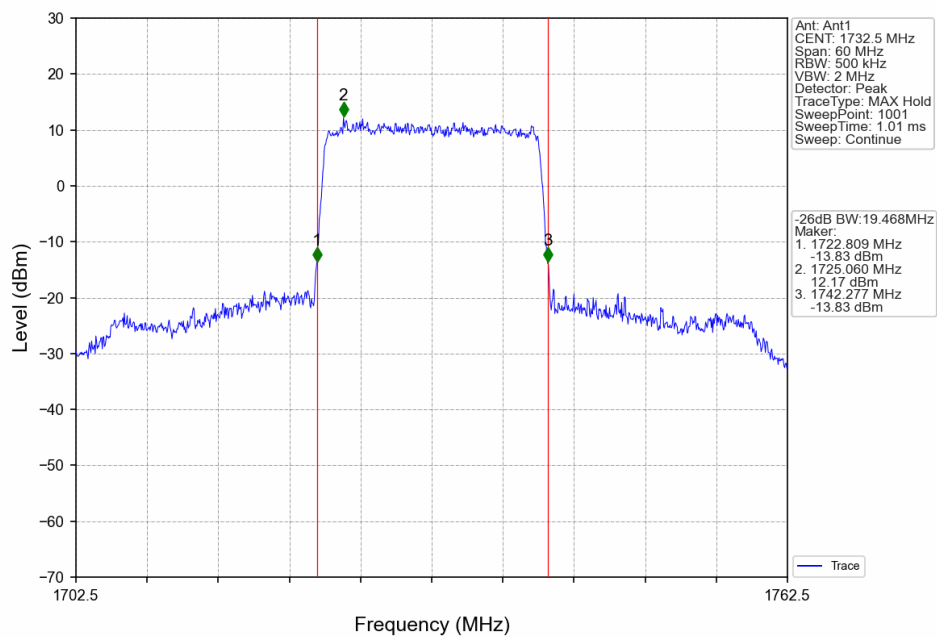




Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

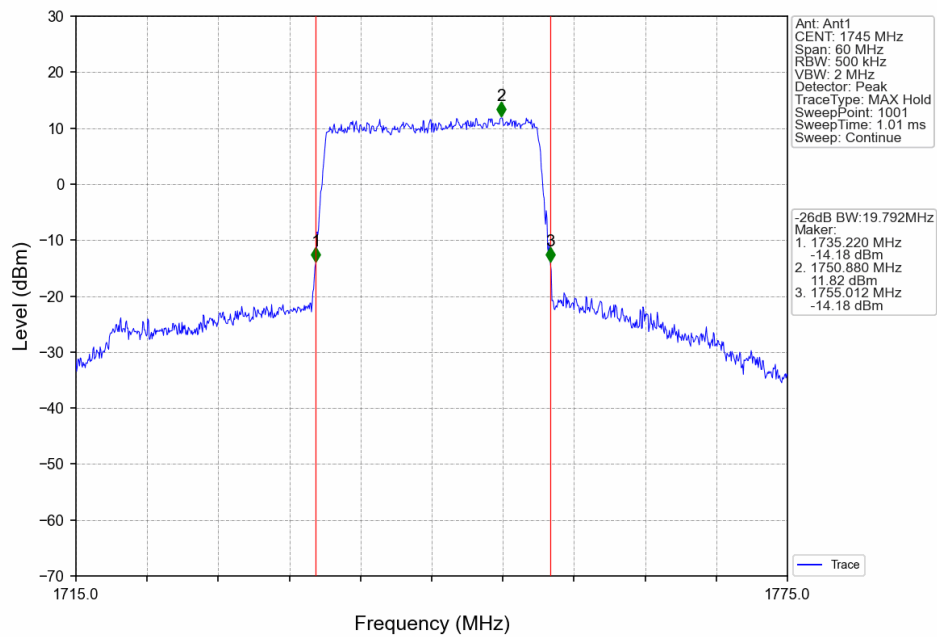


Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

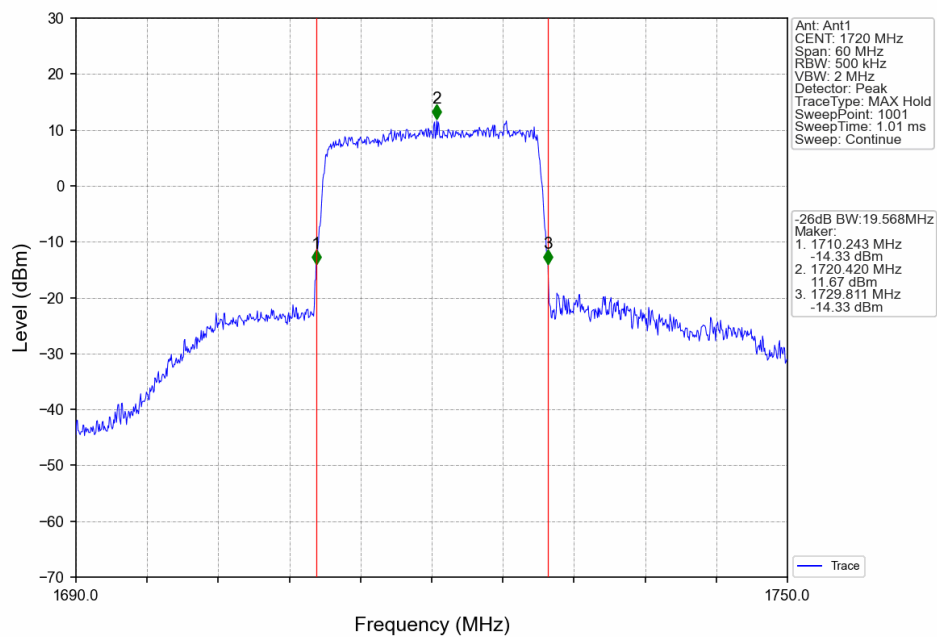




Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

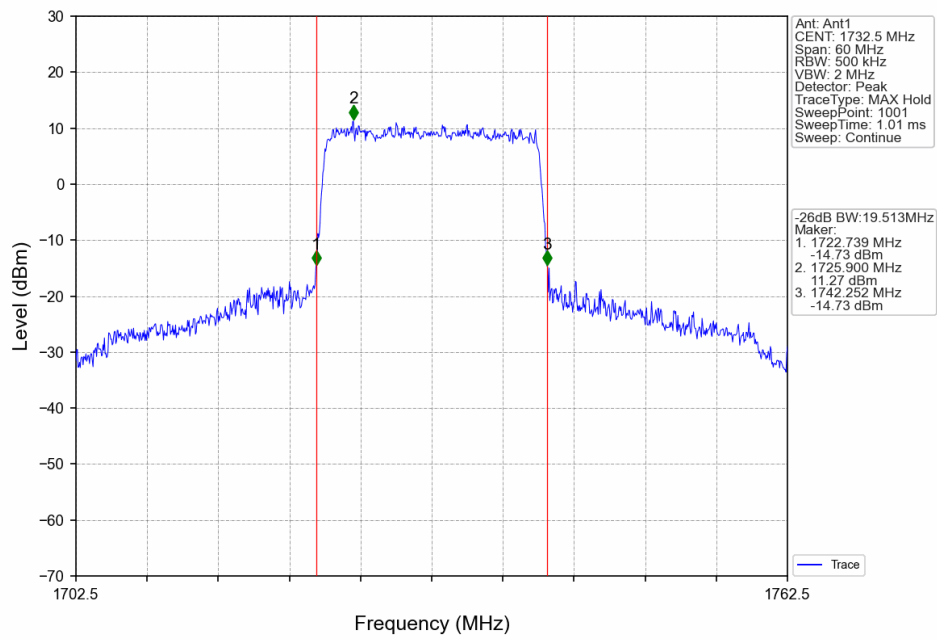


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

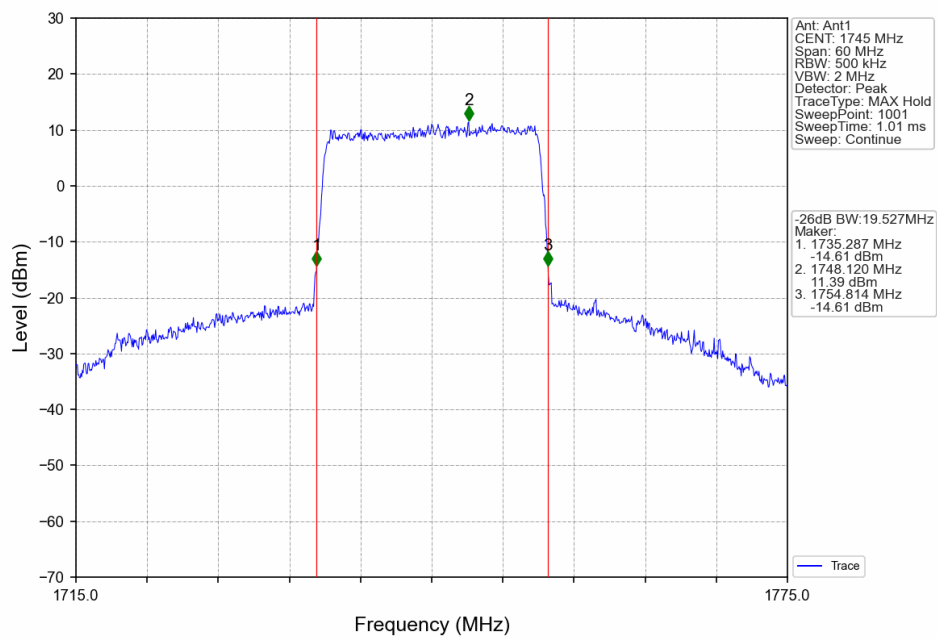




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV





5. Peak-Average Ratio

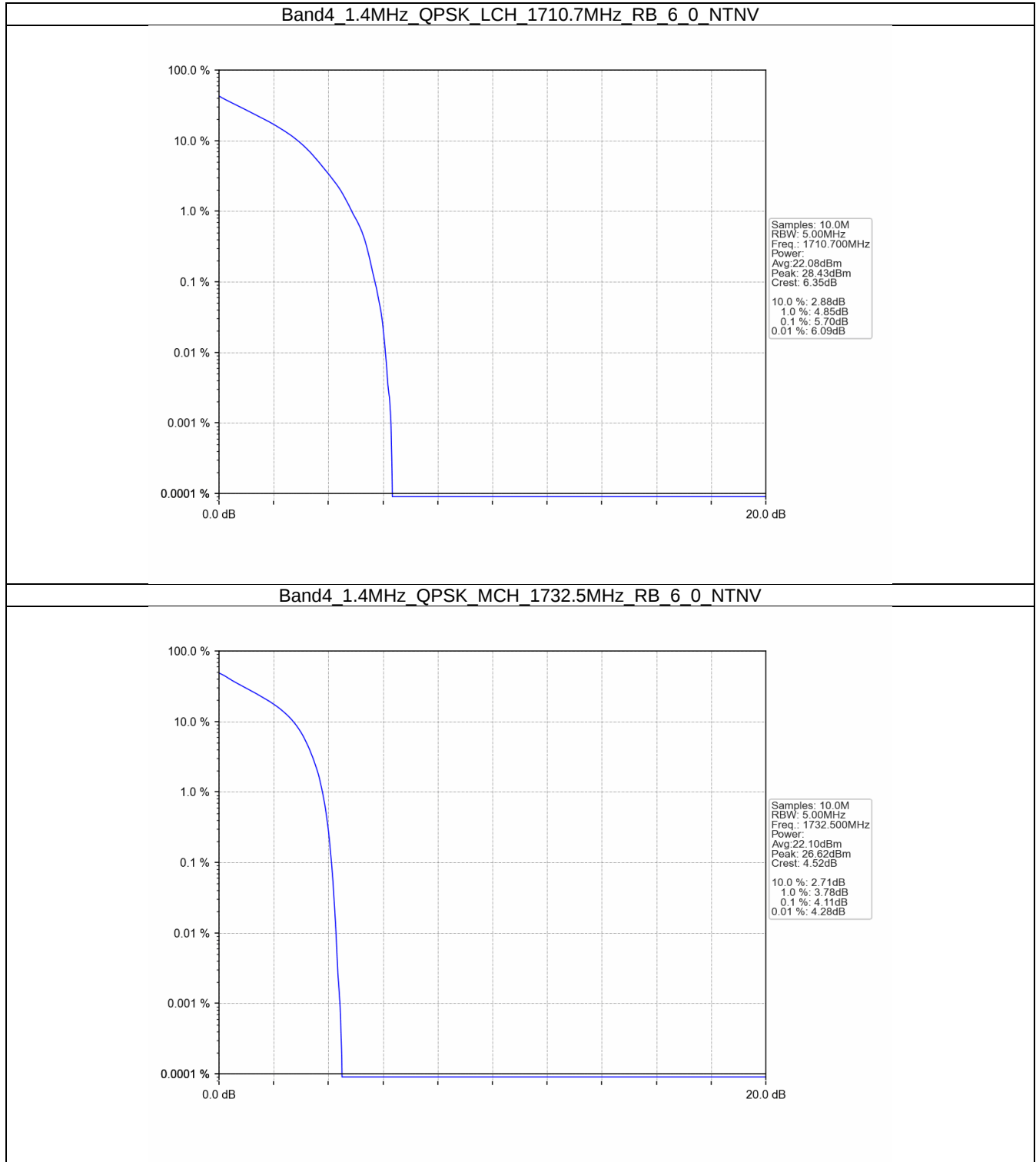
5.1 B4_1.4MHz

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	
QPSK	1710.7	6	0	5.70	<=13	Pass
	1732.5	6	0	4.11	<=13	Pass
	1754.3	6	0	5.03	<=13	Pass
16QAM	1710.7	6	0	6.59	<=13	Pass
	1732.5	6	0	5.15	<=13	Pass
	1754.3	6	0	5.93	<=13	Pass

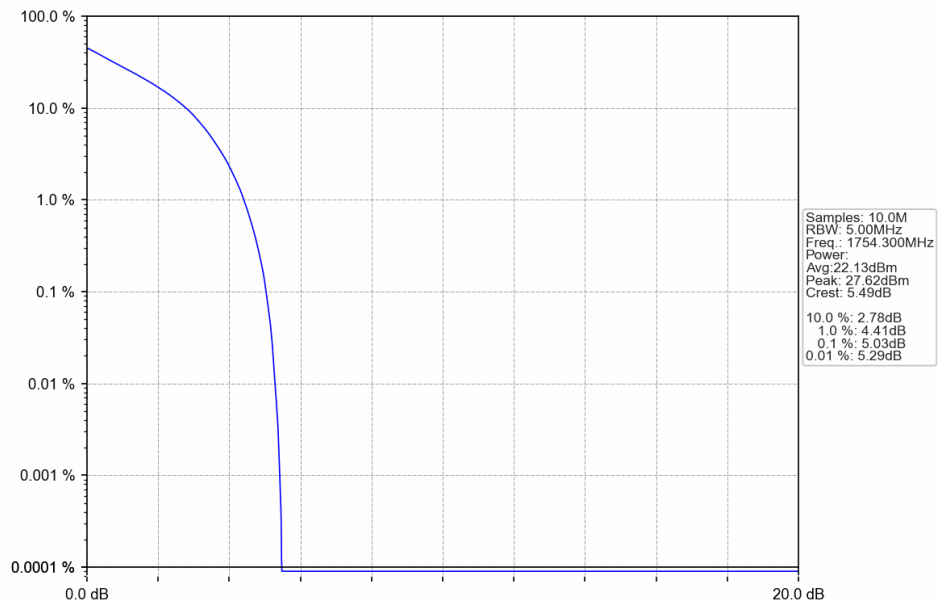


5.1.2 Test Graph

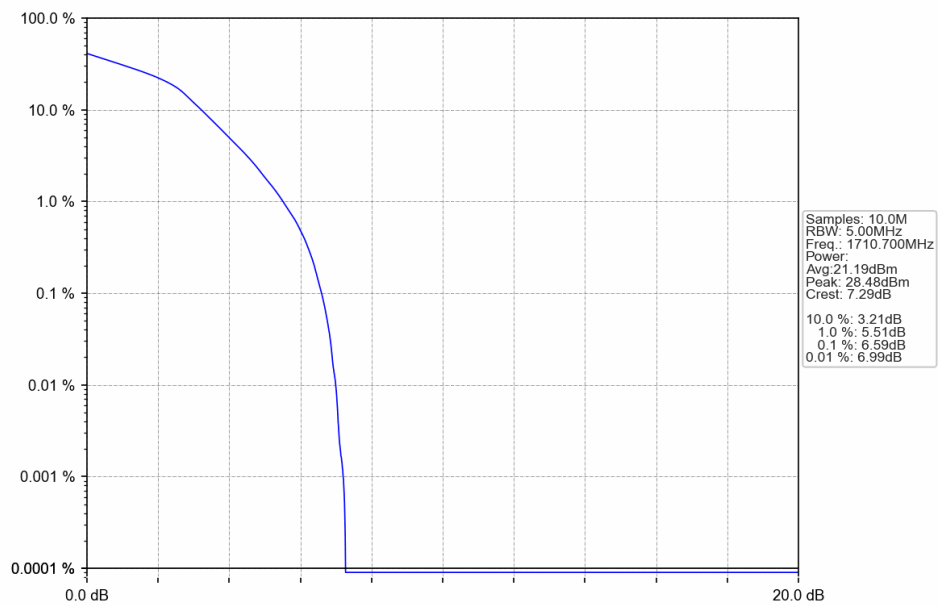




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

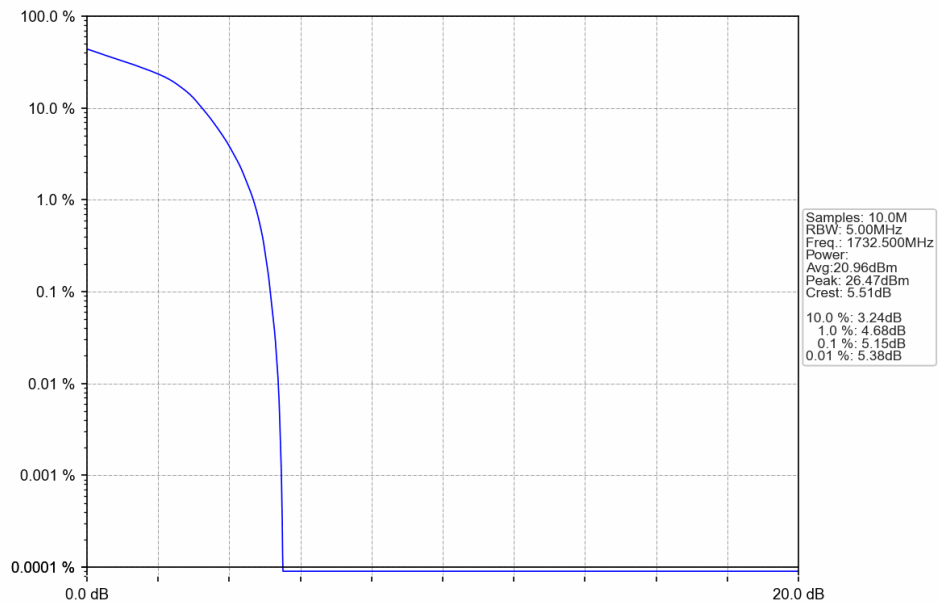


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

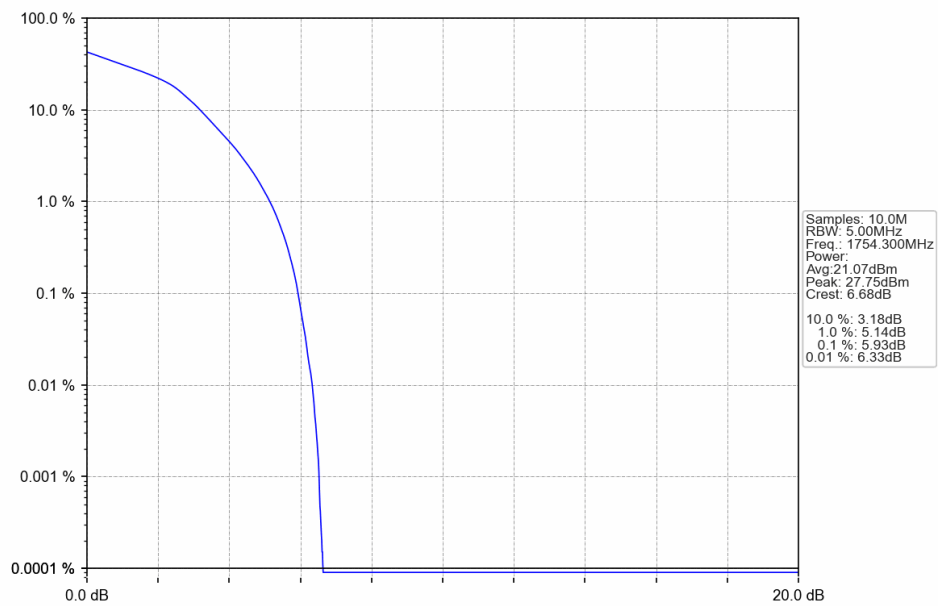




Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTNV





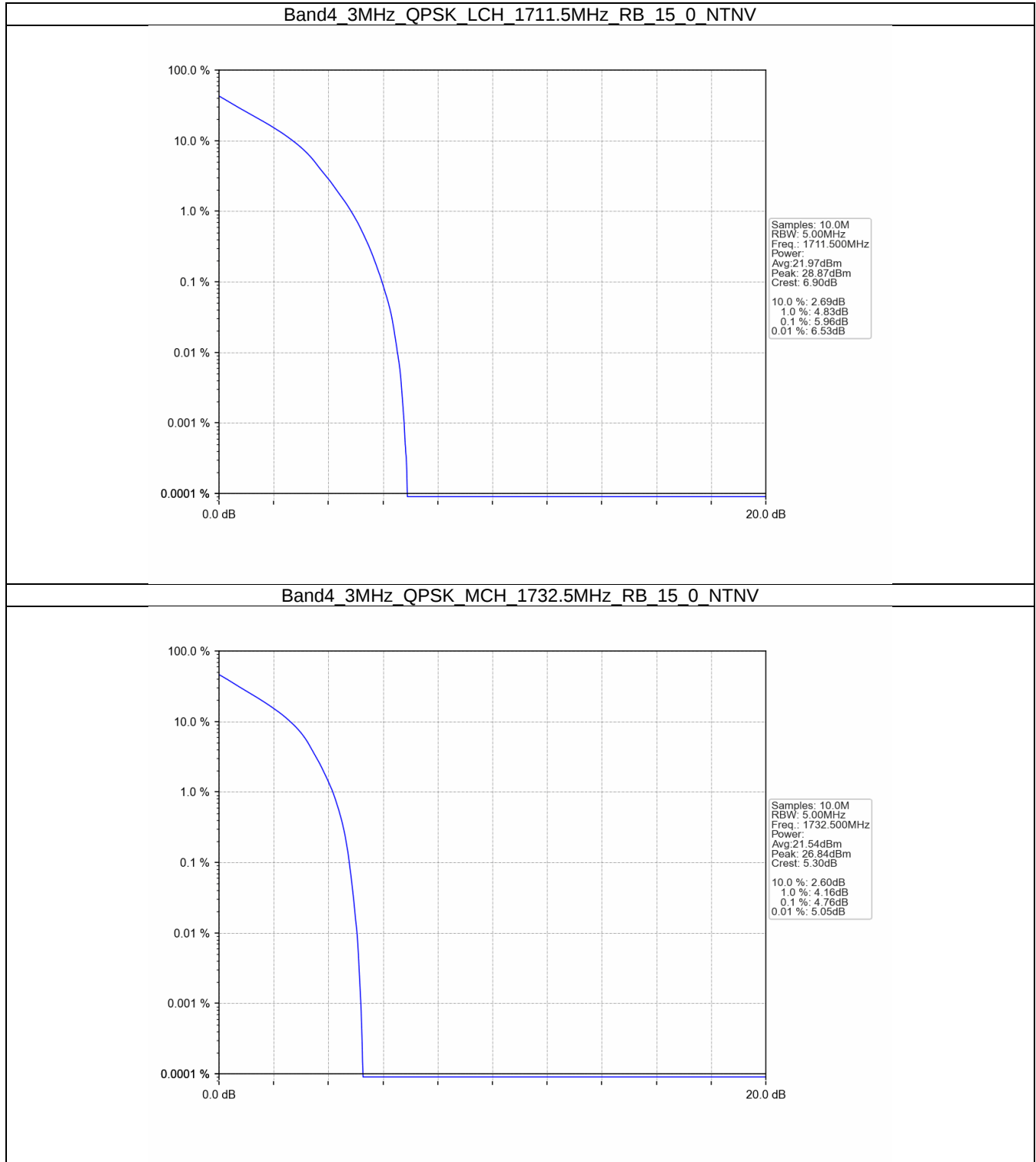
5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.96	<=13	Pass
	1732.5	15	0	4.76	<=13	Pass
	1753.5	15	0	5.39	<=13	Pass
16QAM	1711.5	15	0	6.96	<=13	Pass
	1732.5	15	0	5.63	<=13	Pass
	1753.5	15	0	6.29	<=13	Pass

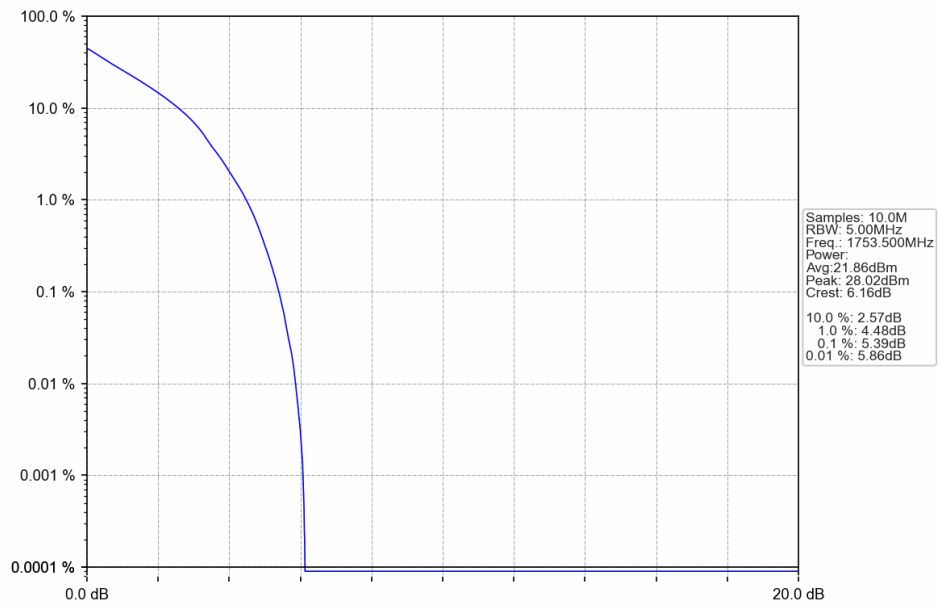


5.2.2 Test Graph

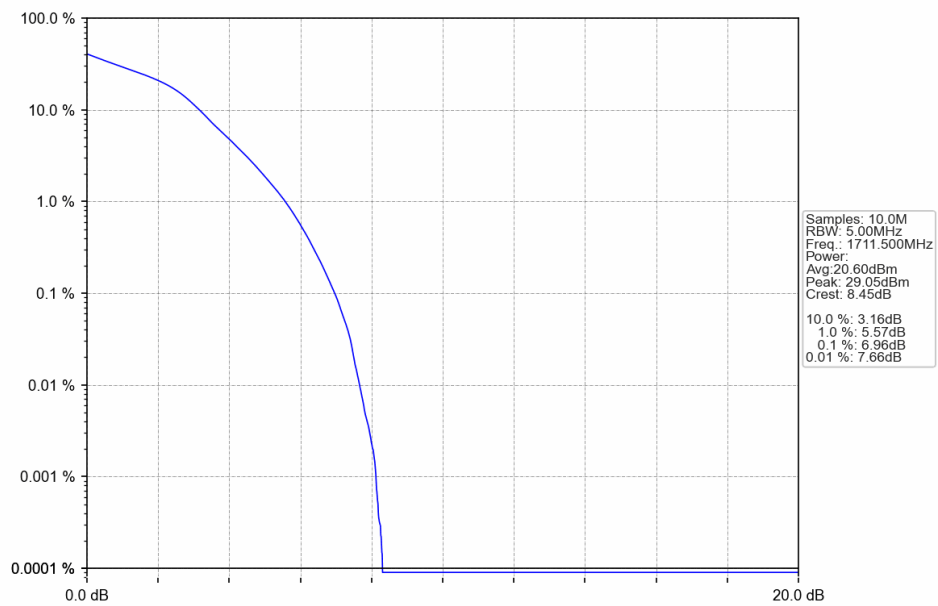




Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

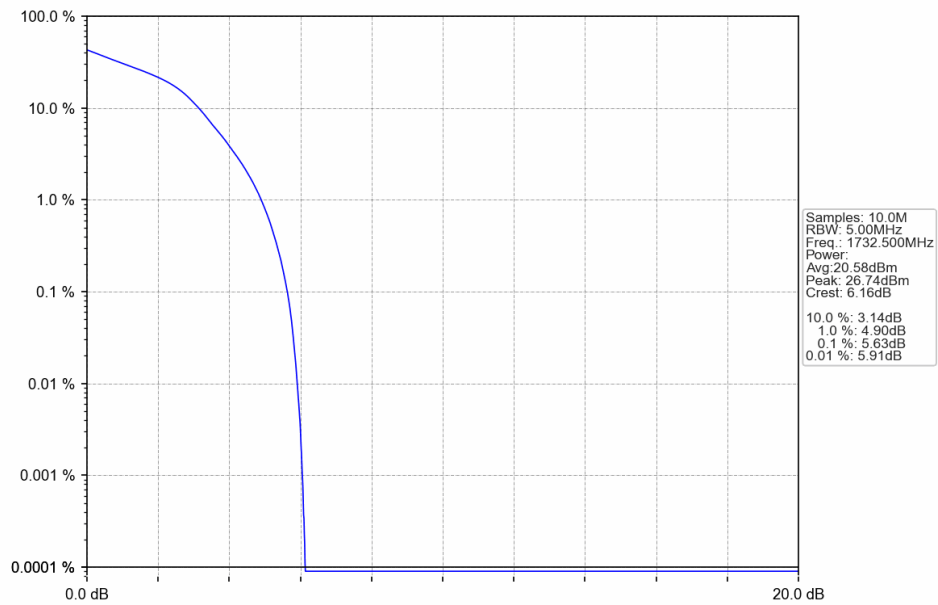


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

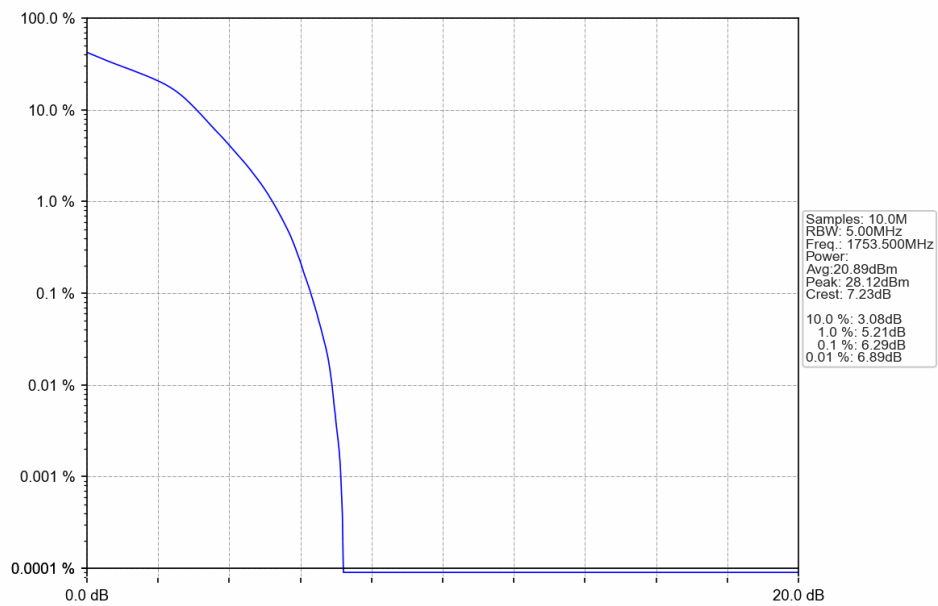




Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV





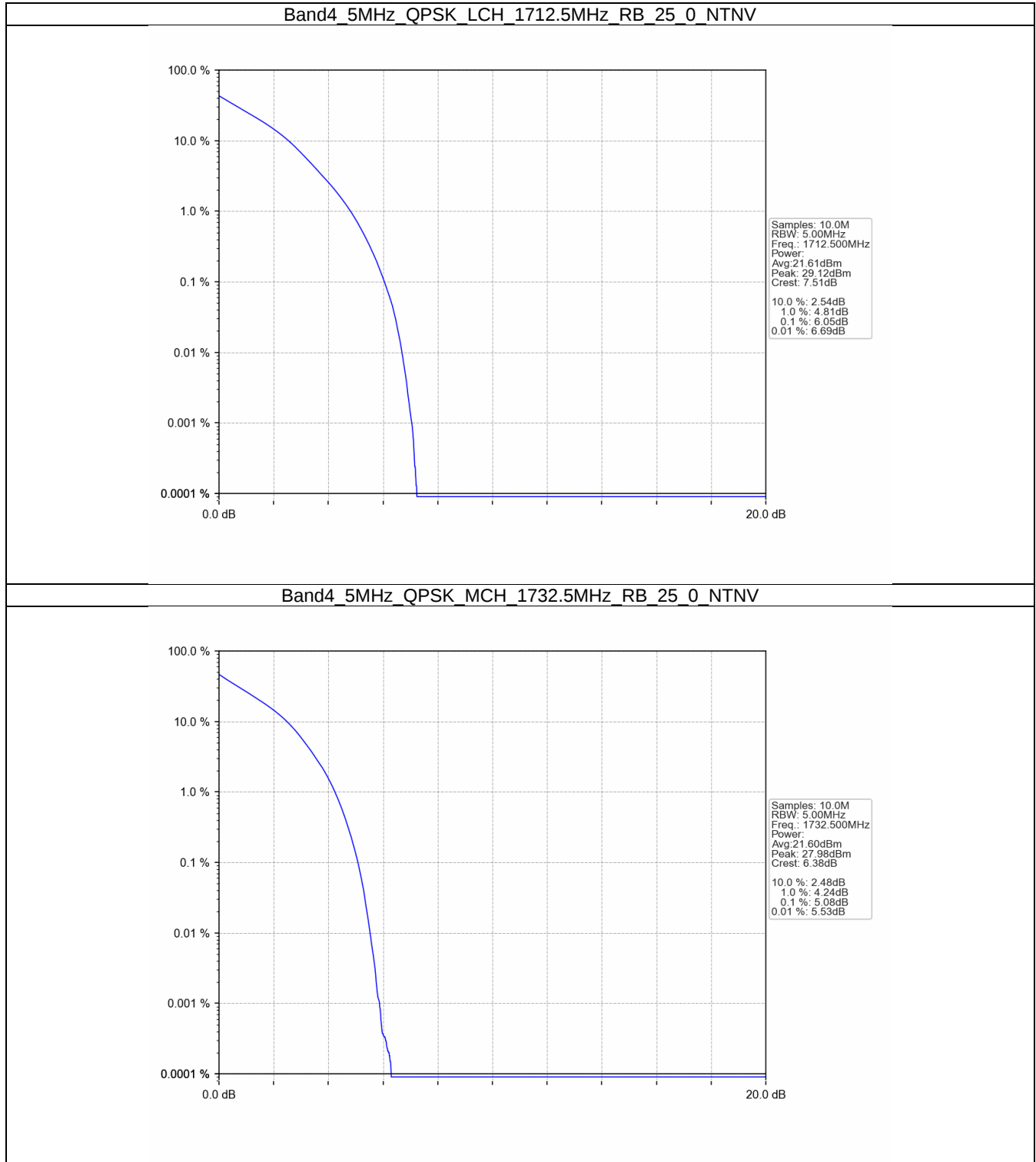
5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	6.05	<=13	Pass
	1732.5	25	0	5.08	<=13	Pass
	1752.5	25	0	5.70	<=13	Pass
16QAM	1712.5	25	0	6.81	<=13	Pass
	1732.5	25	0	5.85	<=13	Pass
	1752.5	25	0	6.43	<=13	Pass

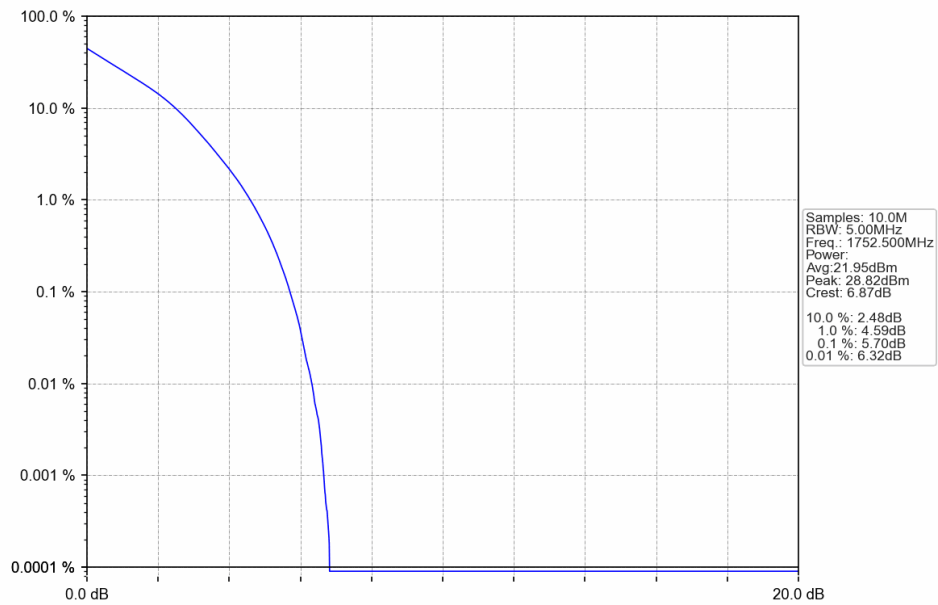


5.3.2 Test Graph

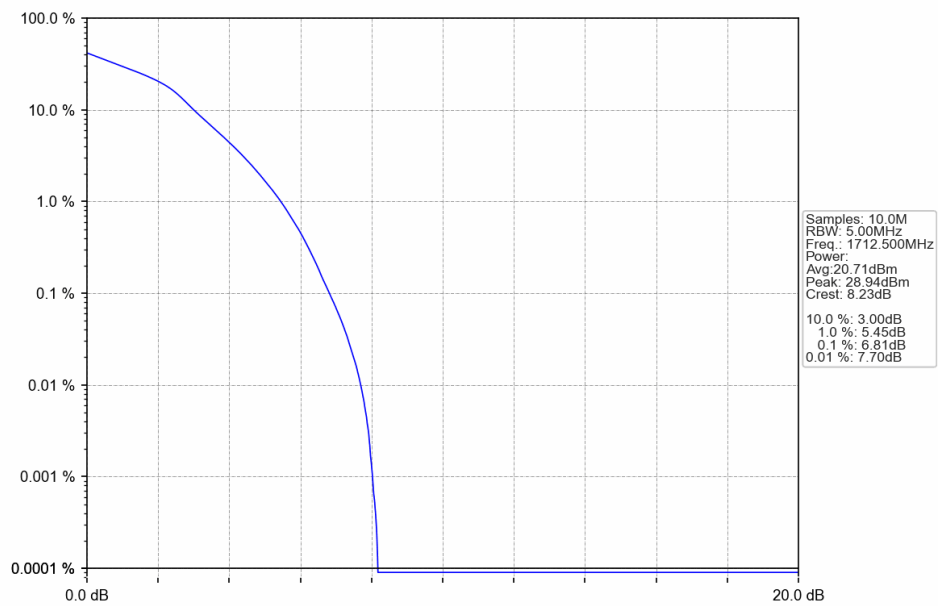




Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

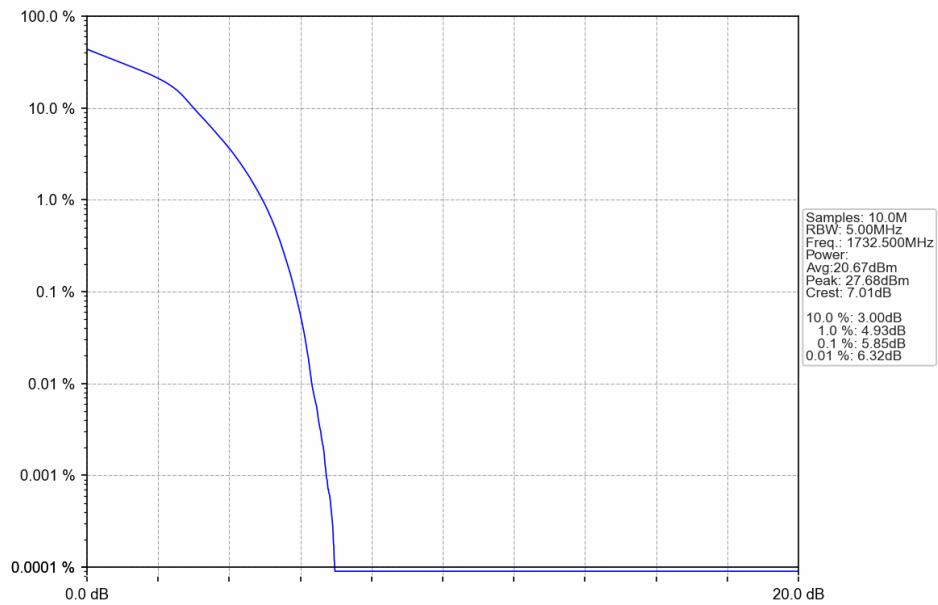


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

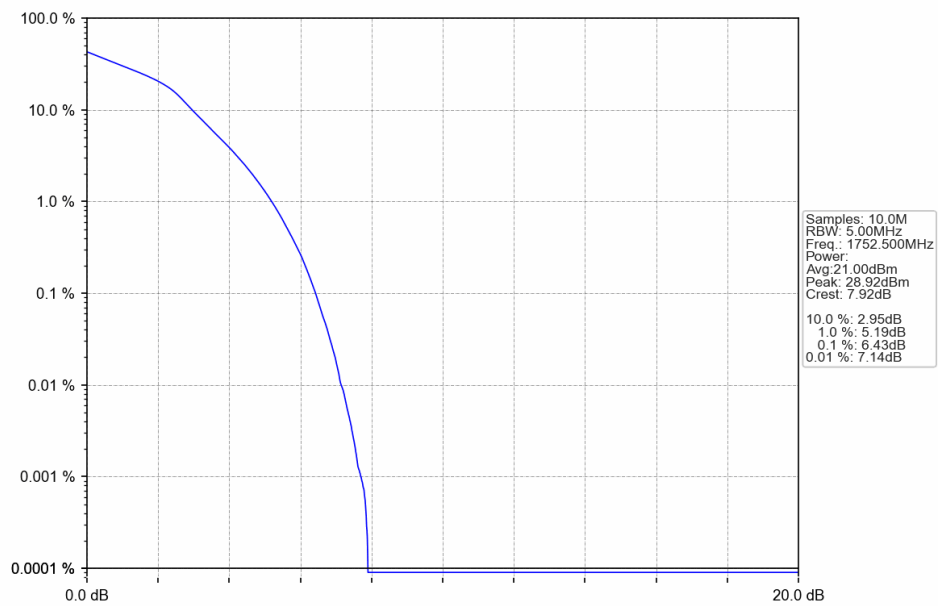




Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV





5.4 B4_10MHz

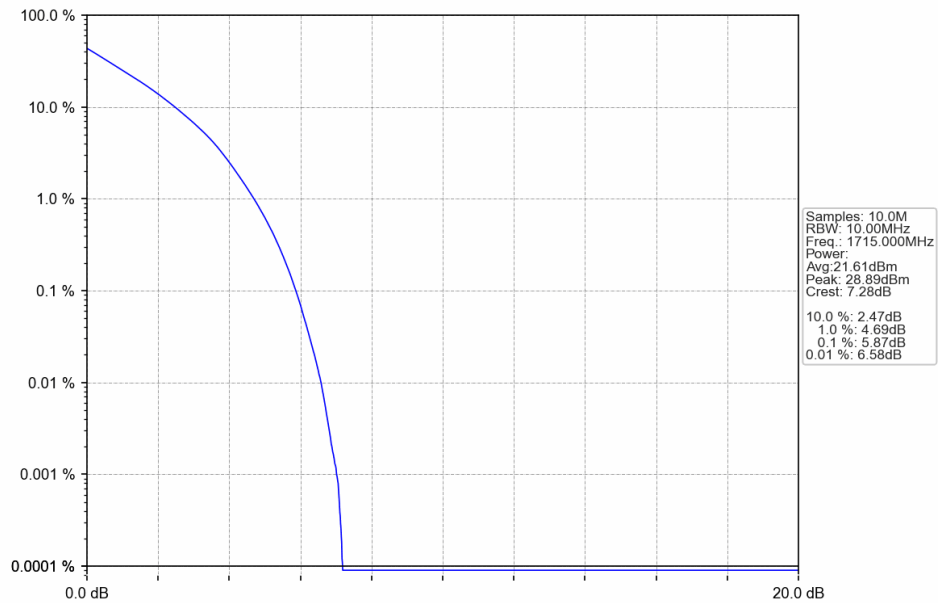
5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.87	<=13	Pass
	1732.5	50	0	5.06	<=13	Pass
	1750	50	0	5.78	<=13	Pass
16QAM	1715	50	0	6.68	<=13	Pass
	1732.5	50	0	5.91	<=13	Pass
	1750	50	0	6.61	<=13	Pass

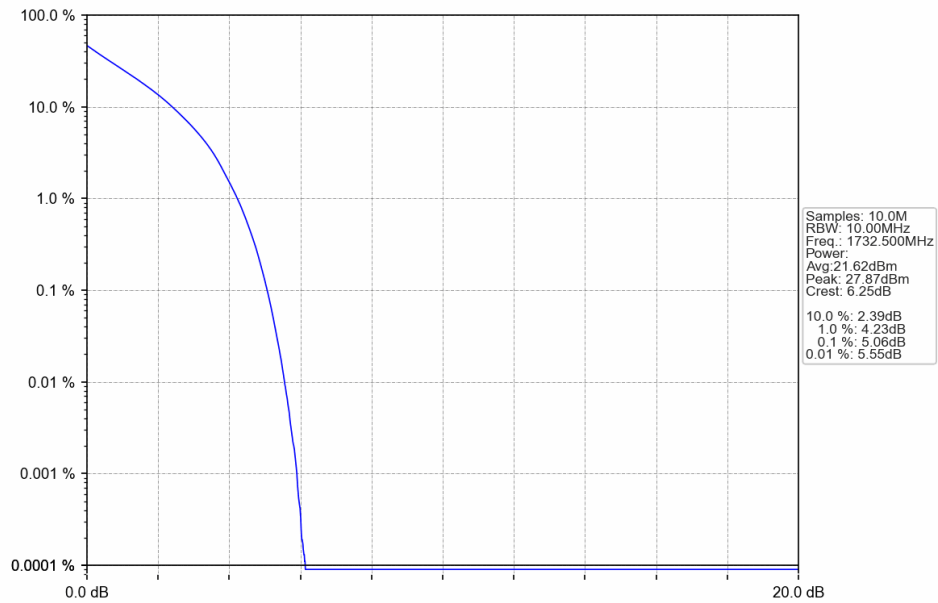


5.4.2 Test Graph

Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV

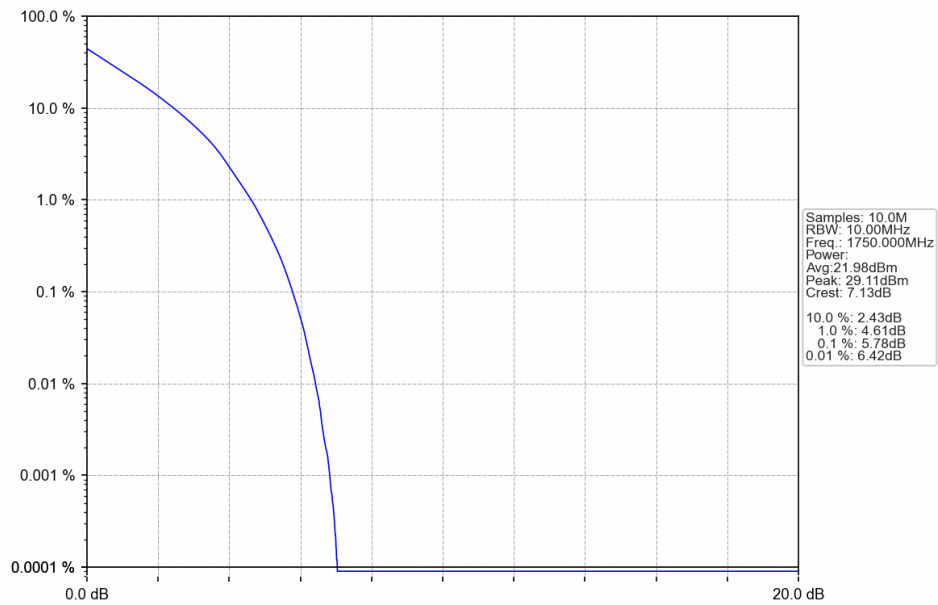


Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV

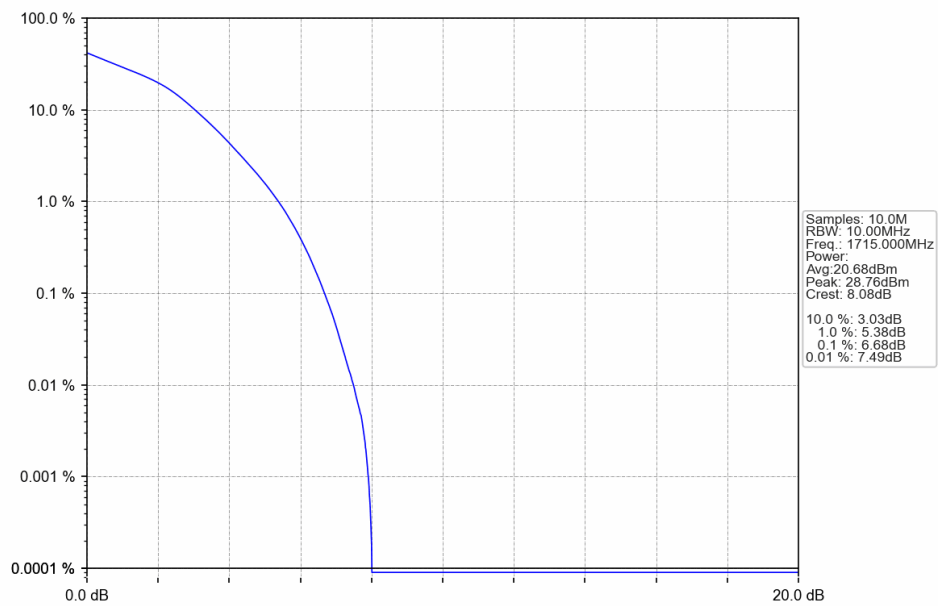




Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

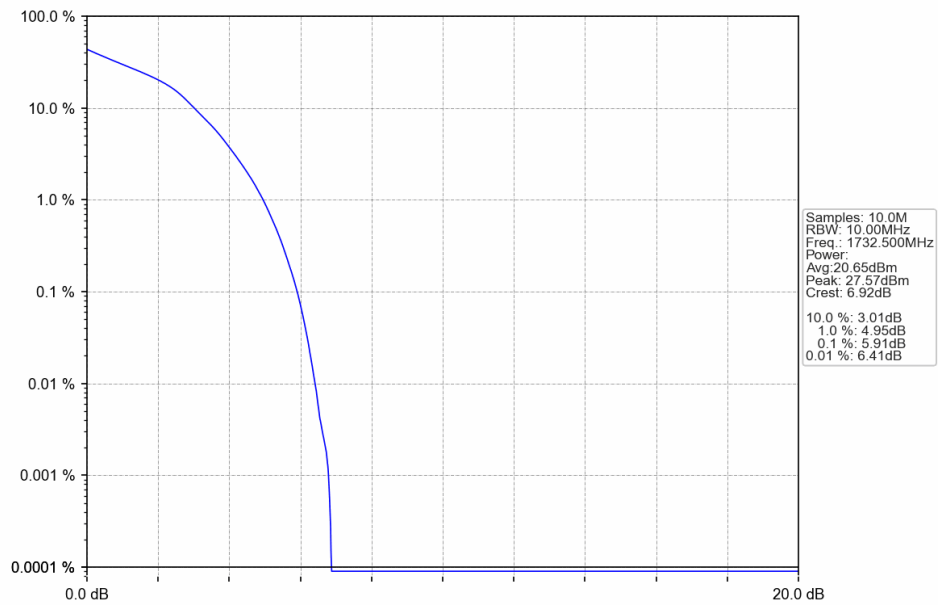


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

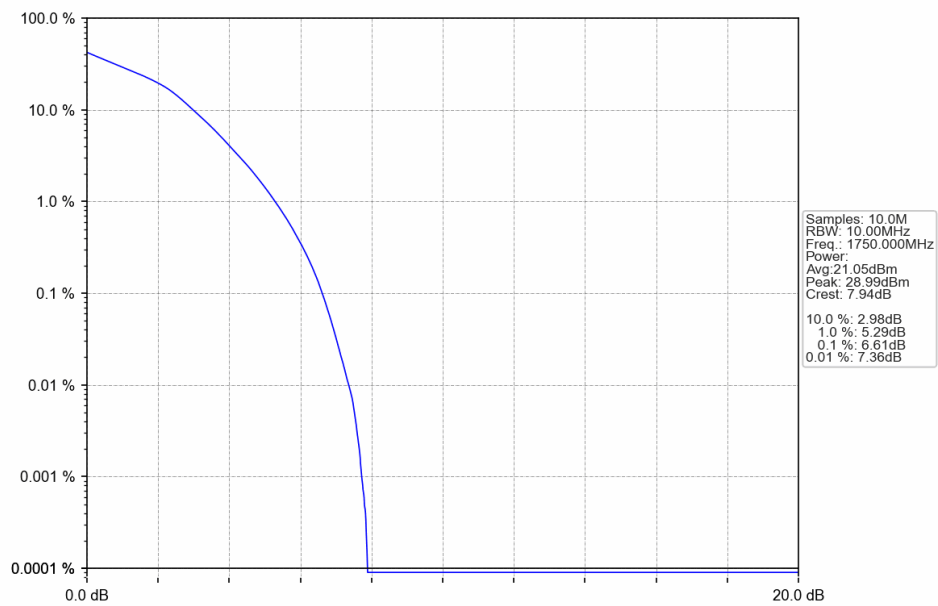




Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV





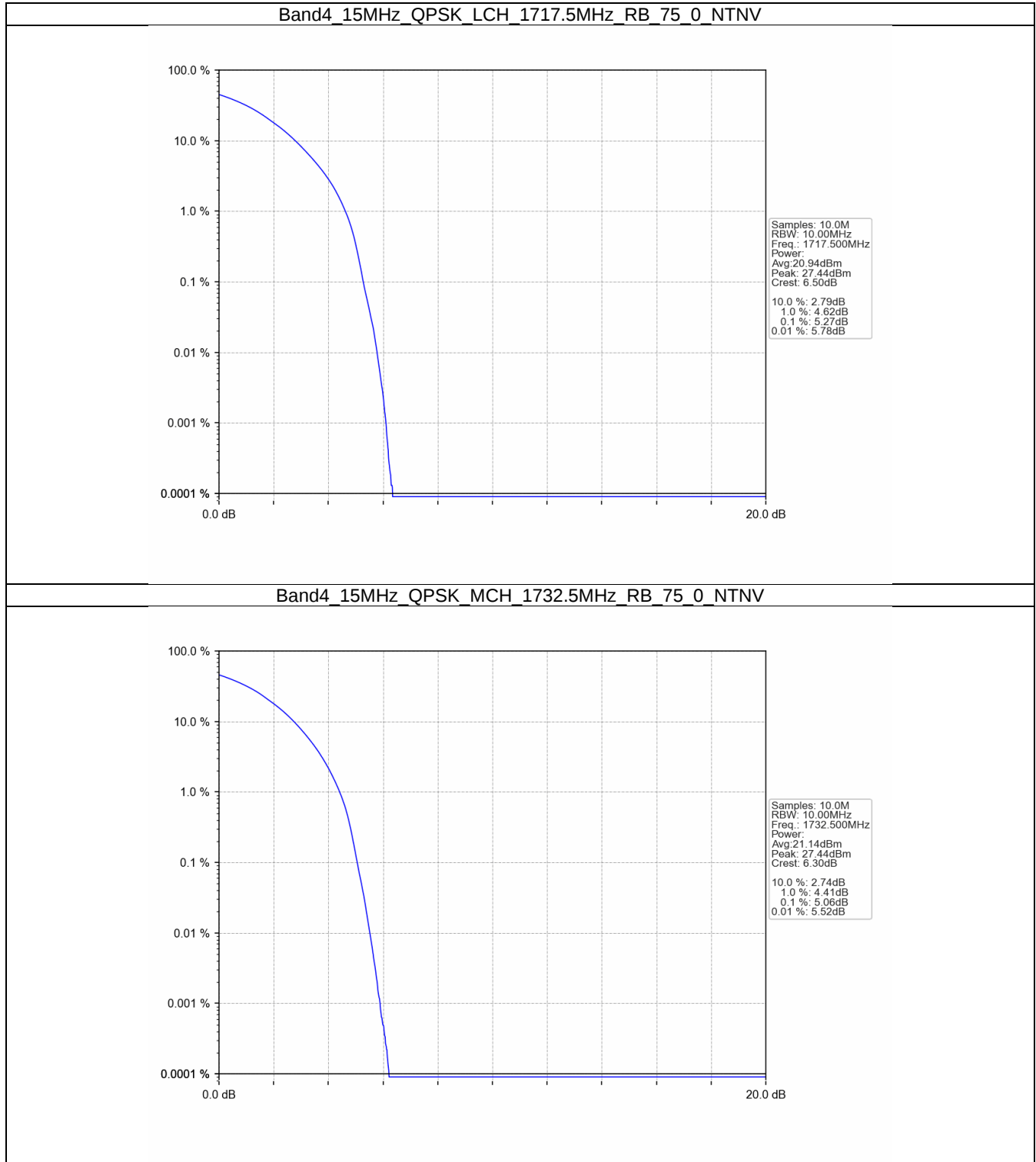
5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.27	<=13	Pass
	1732.5	75	0	5.06	<=13	Pass
	1747.5	75	0	5.33	<=13	Pass
16QAM	1717.5	75	0	6.37	<=13	Pass
	1732.5	75	0	6.09	<=13	Pass
	1747.5	75	0	6.47	<=13	Pass

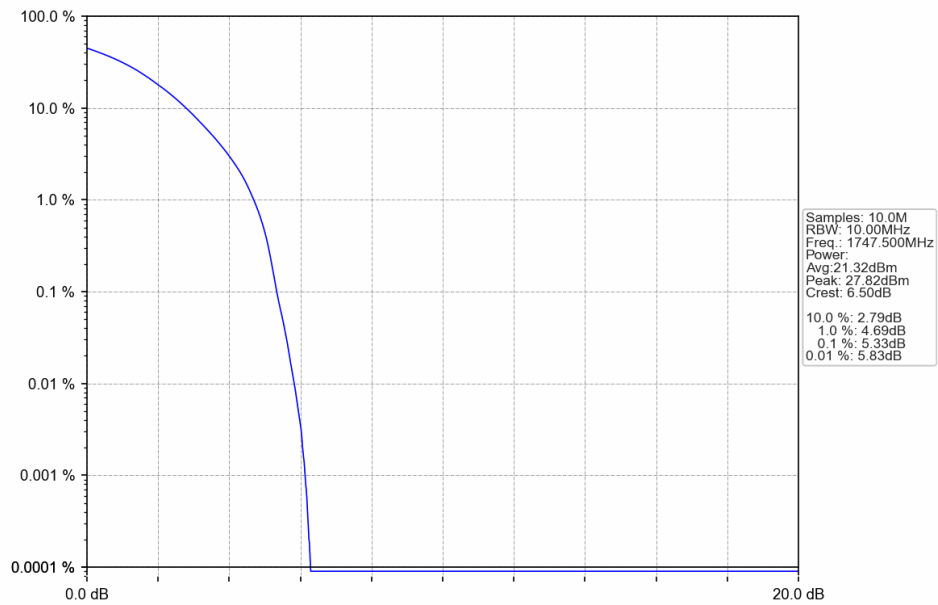


5.5.2 Test Graph

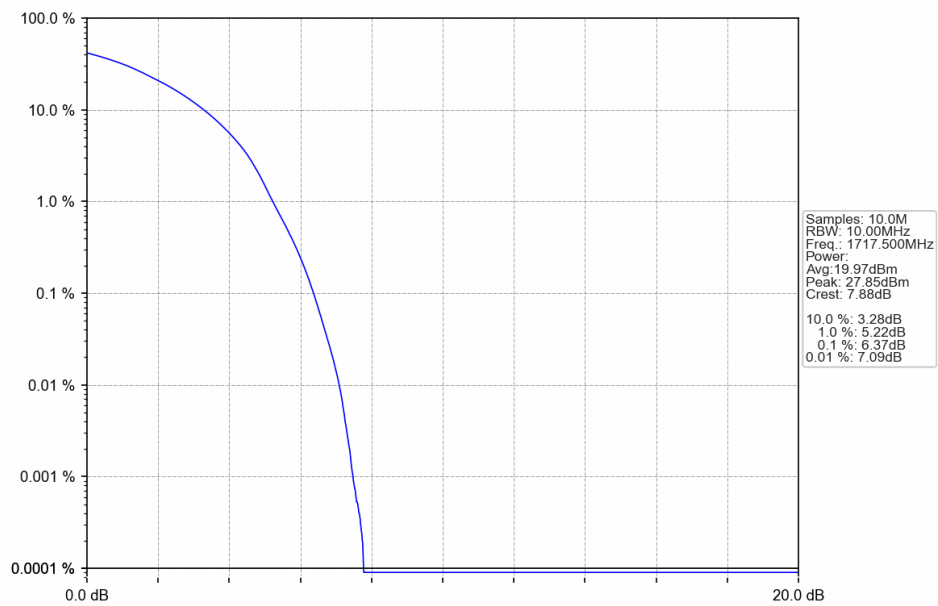




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

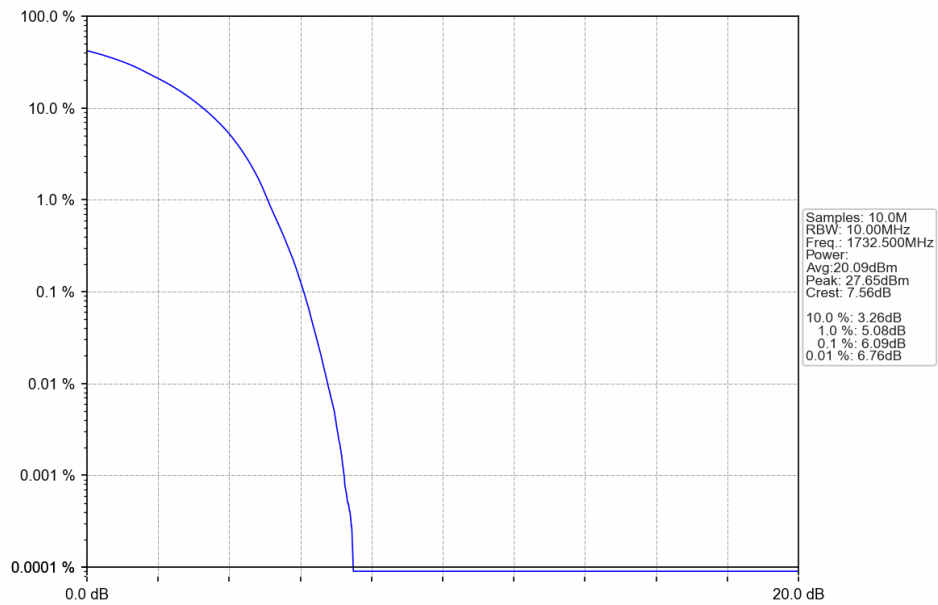


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

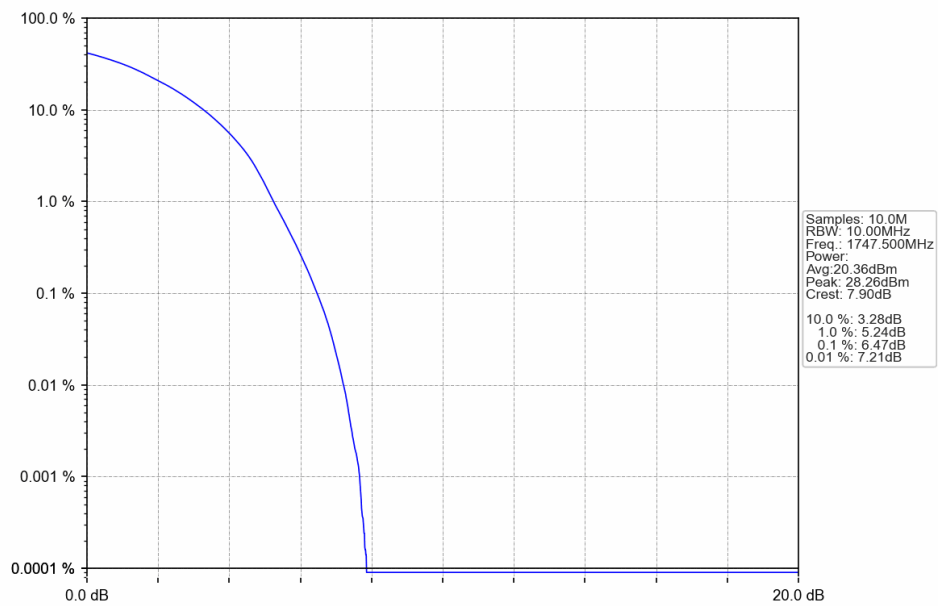




Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV





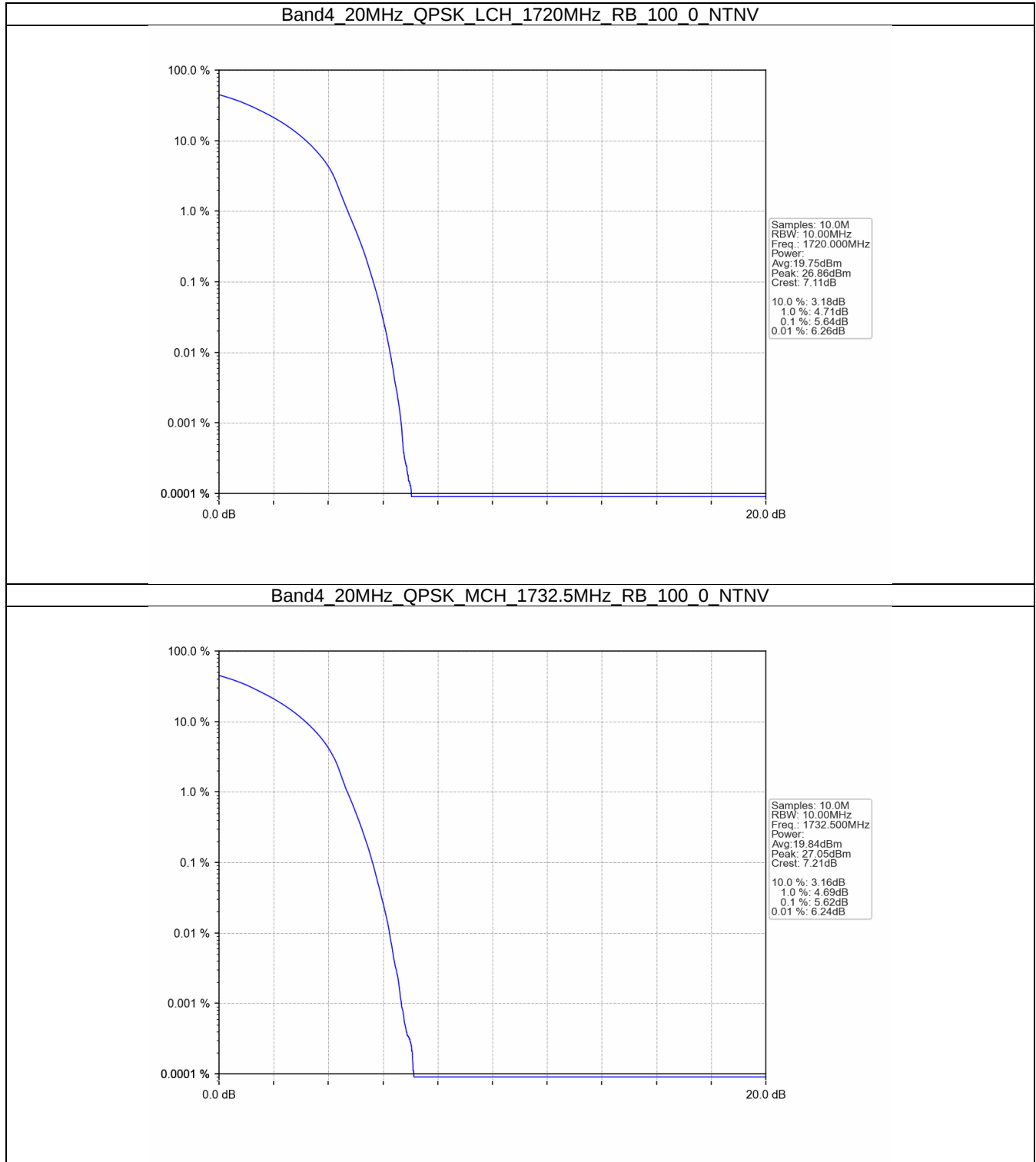
5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.64	<=13	Pass
	1732.5	100	0	5.62	<=13	Pass
	1745	100	0	5.69	<=13	Pass
16QAM	1720	100	0	6.69	<=13	Pass
	1732.5	100	0	6.71	<=13	Pass
	1745	100	0	6.77	<=13	Pass

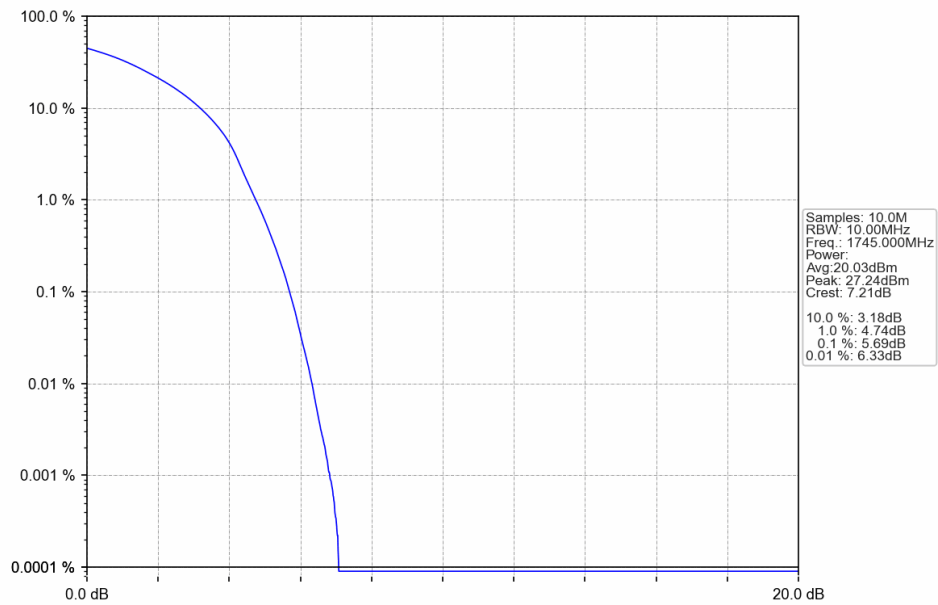


5.6.2 Test Graph

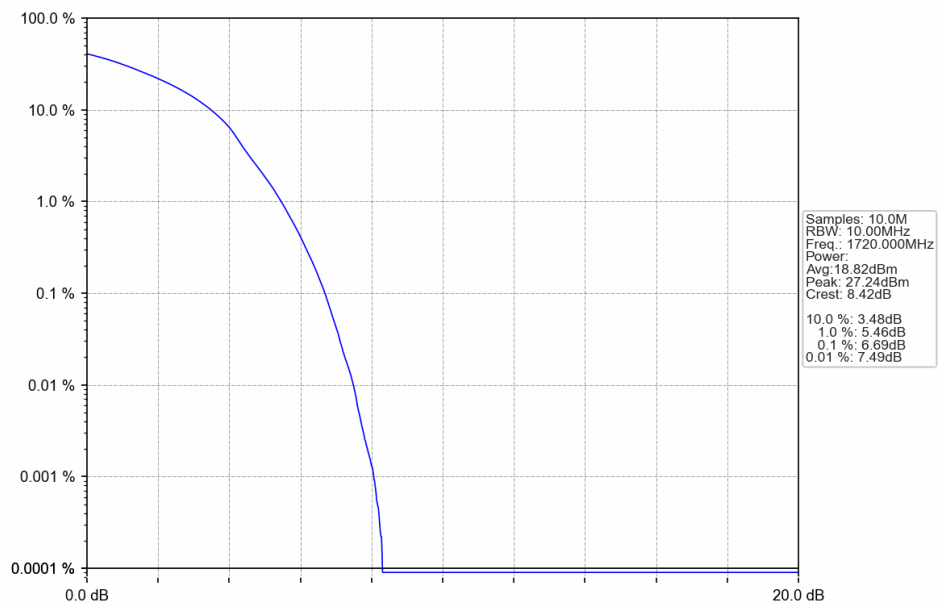




Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

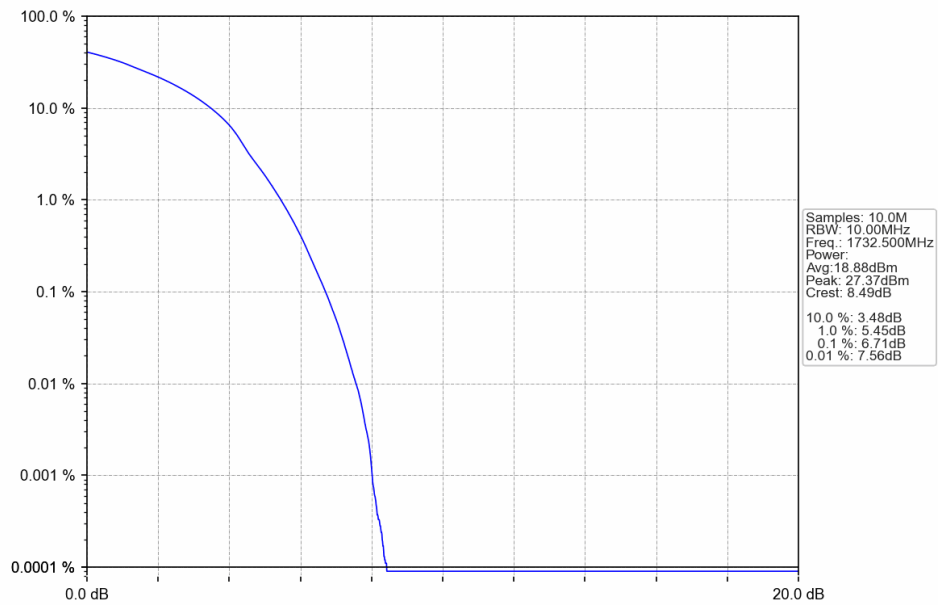


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

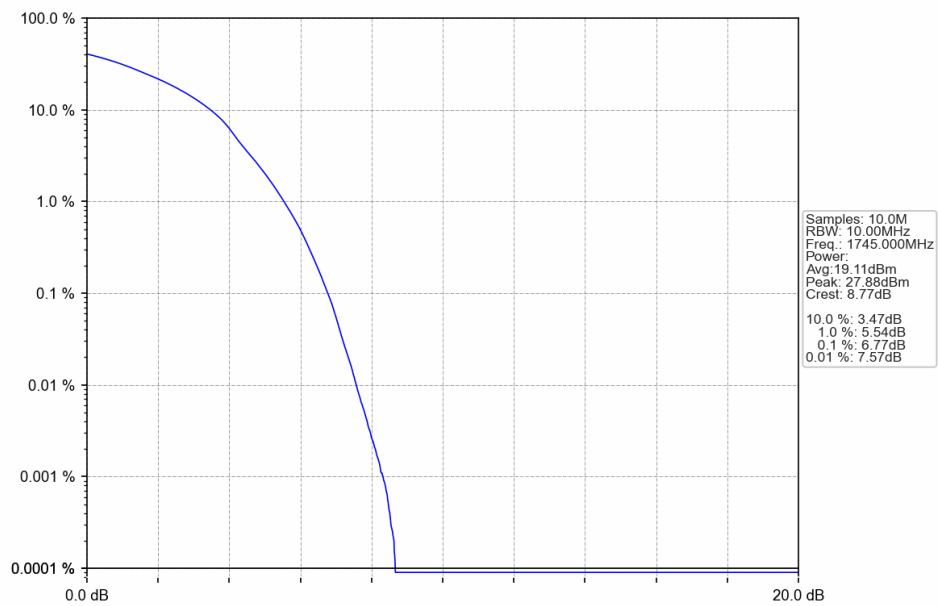




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV





6. Spurious Emission

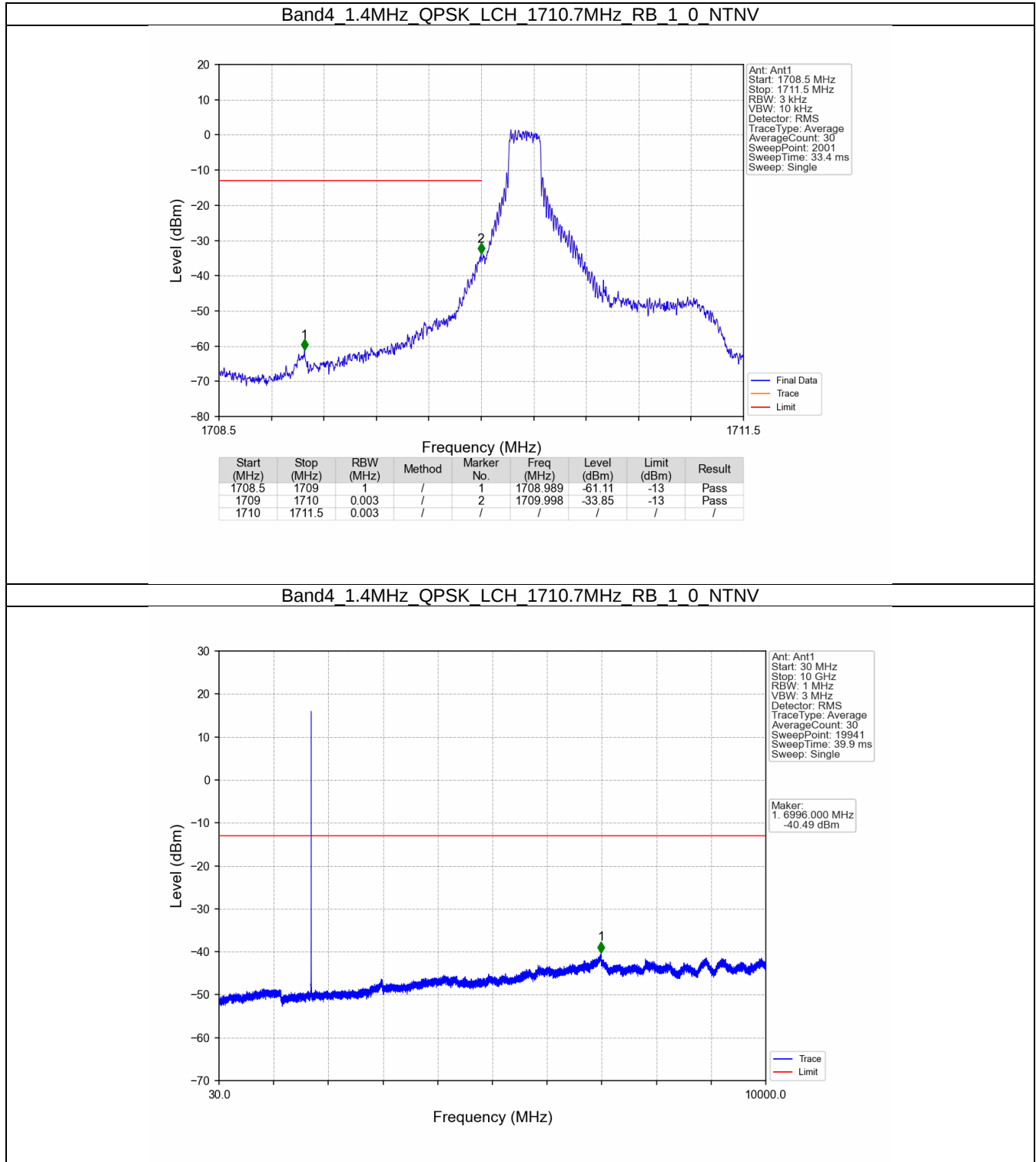
6.1 B4_1.4MHz

6.1.1 Test Result

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
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

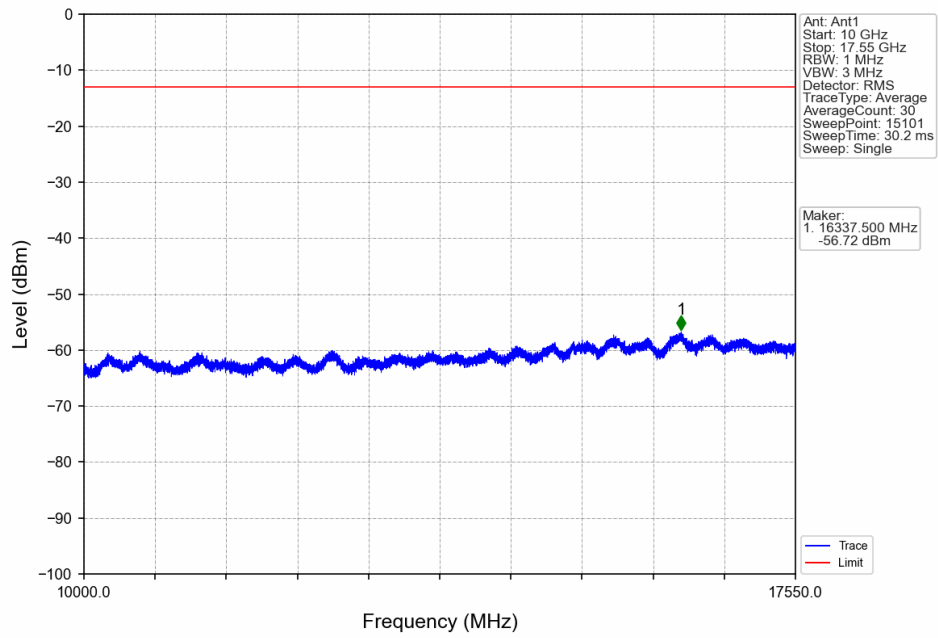


6.1.2 Test Graph

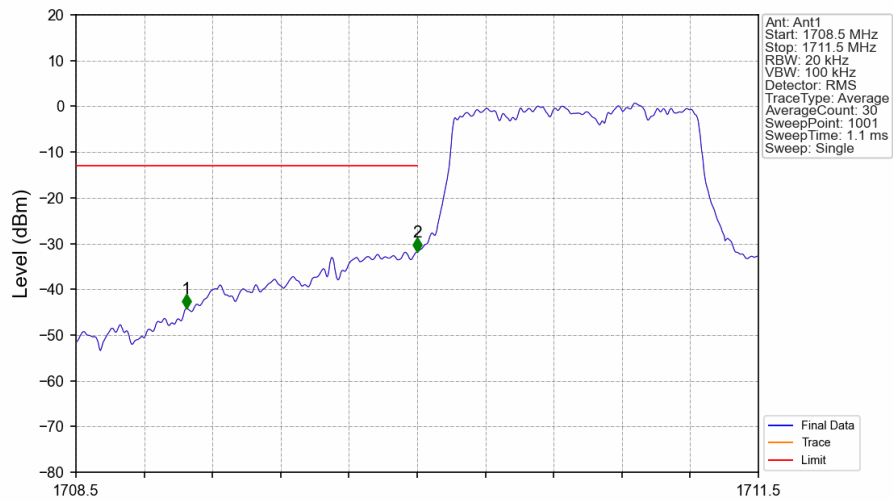




Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



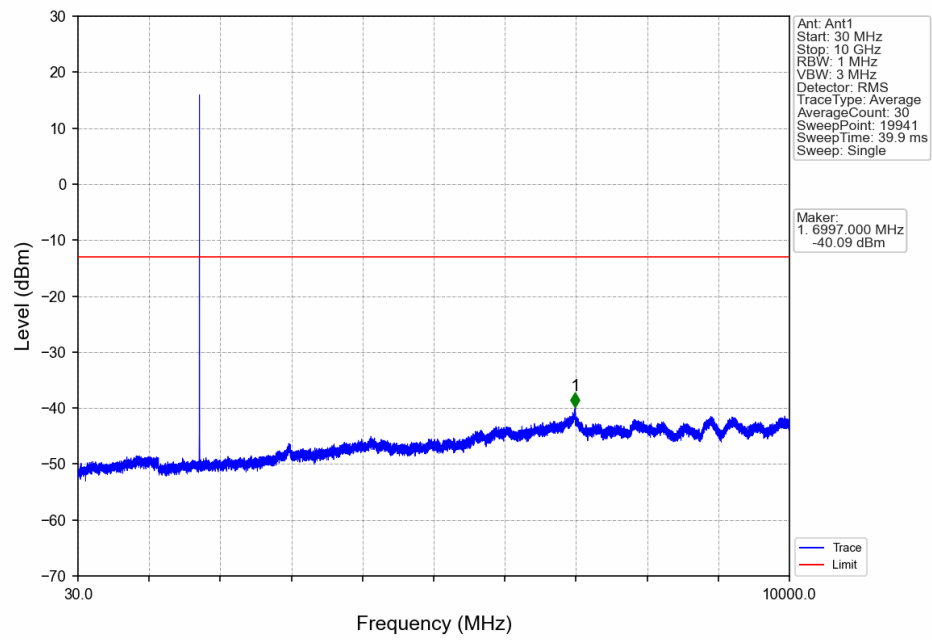
Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



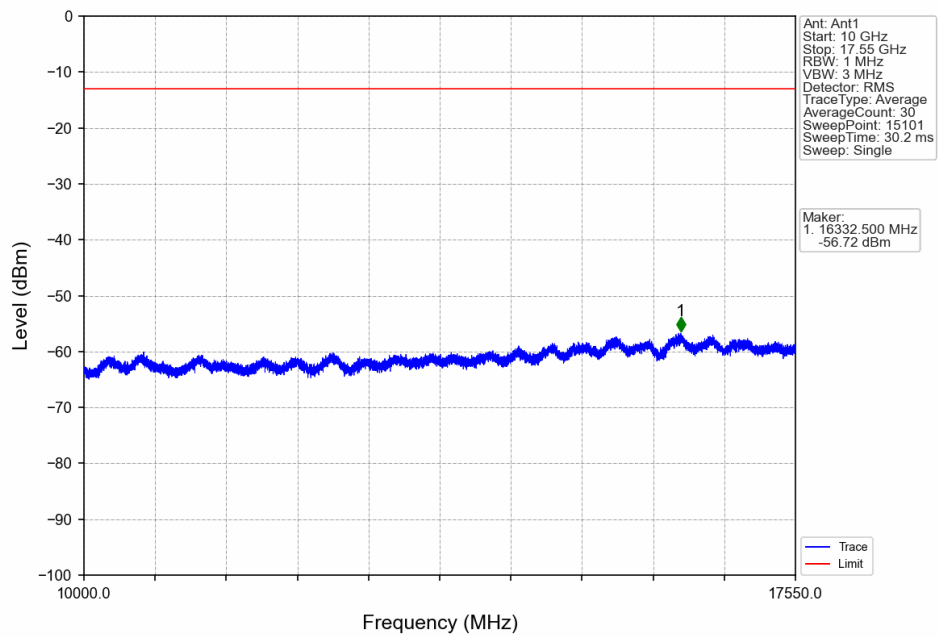
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.986	-44.19	-13	Pass
1709	1710	0.02	/	2	1710.000	-31.81	-13	Pass
1710	1711.5	0.02	/	/	/	/	/	/



Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

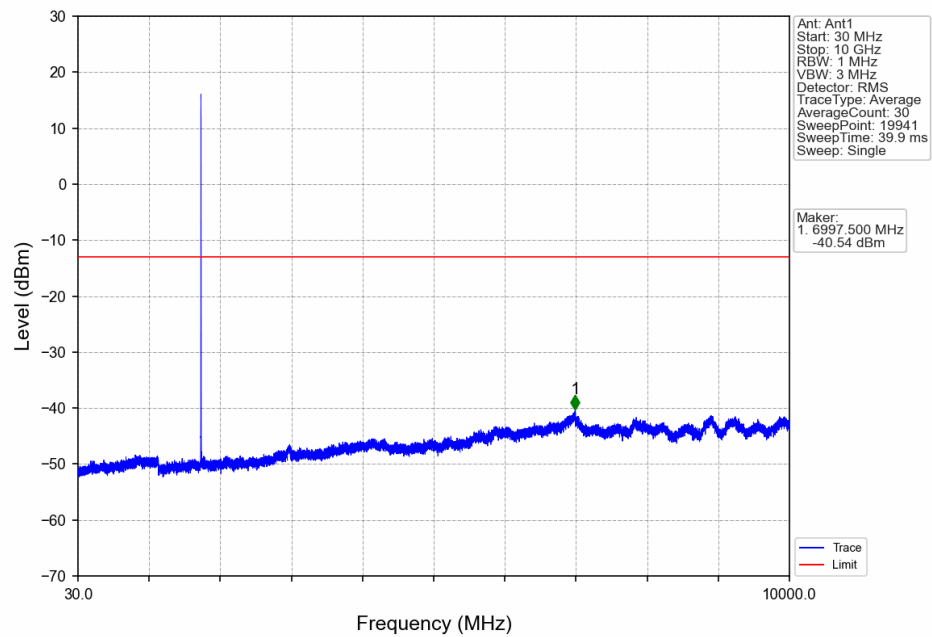


Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

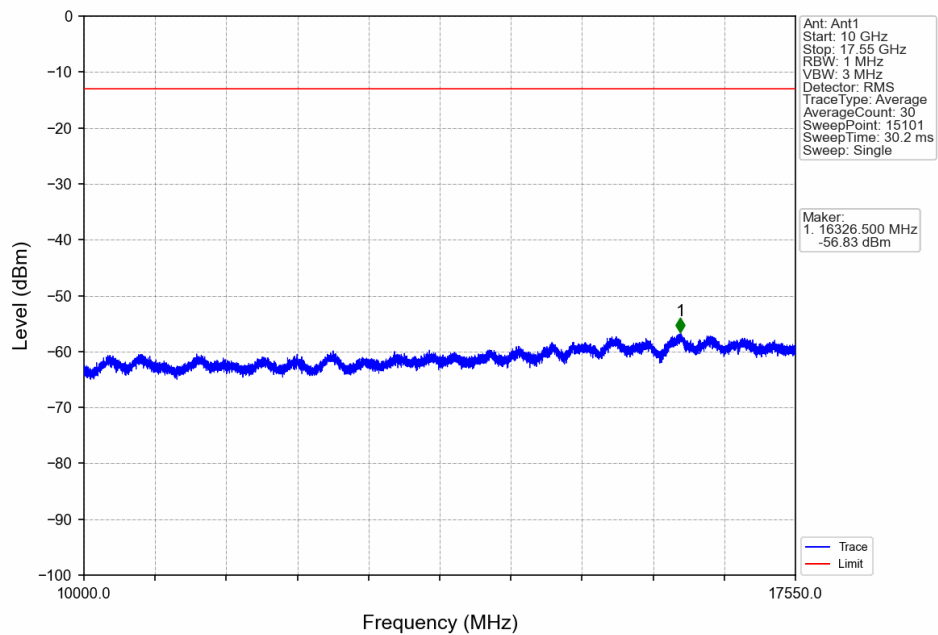




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

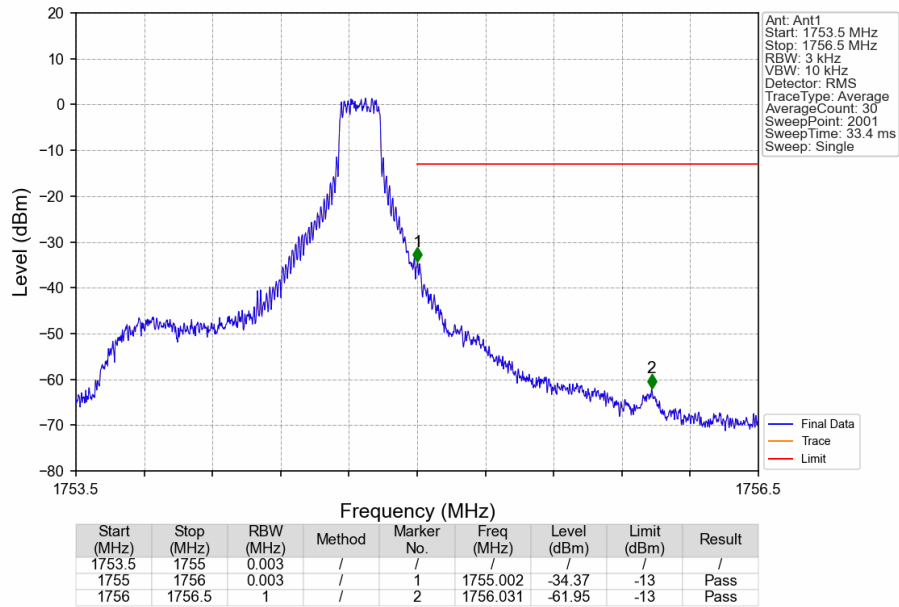


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV

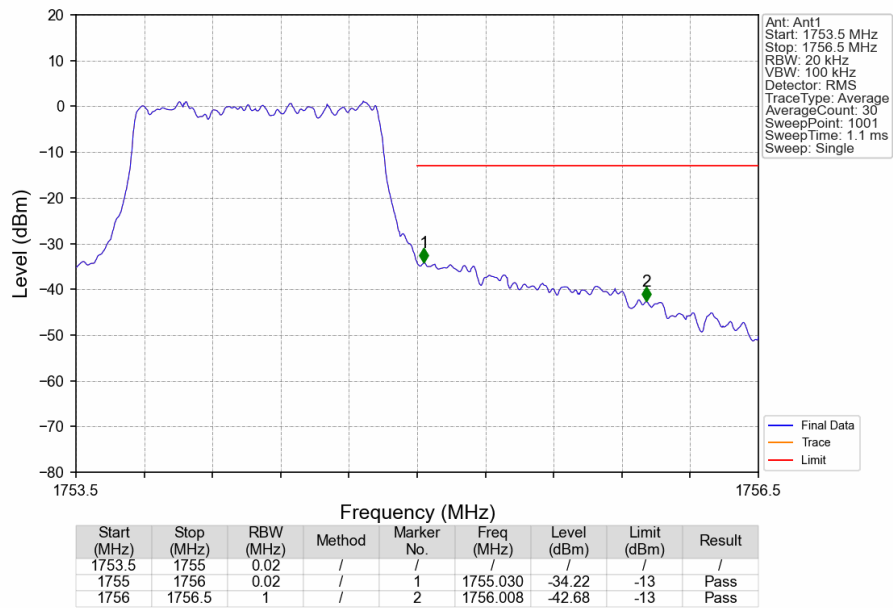




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV

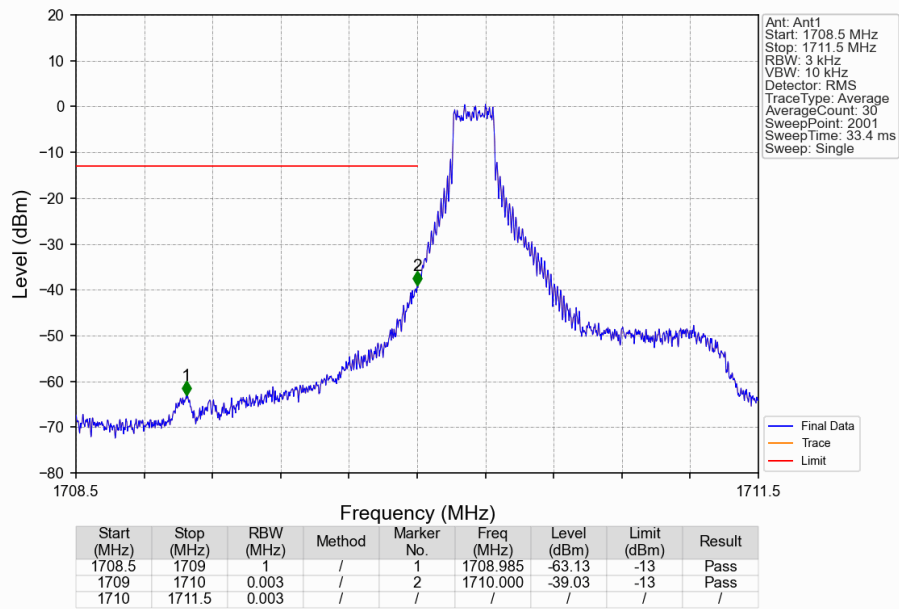


Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

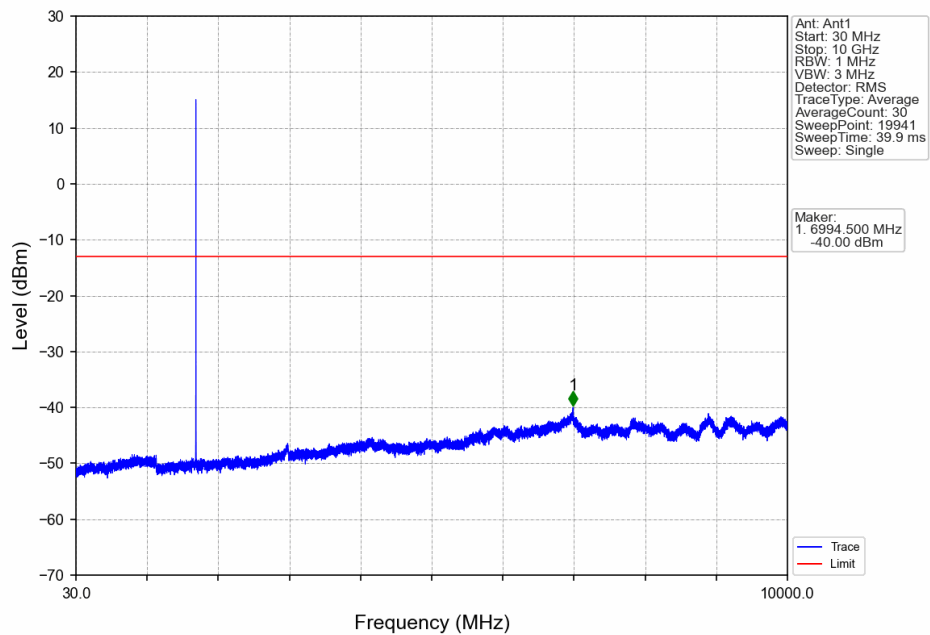




Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

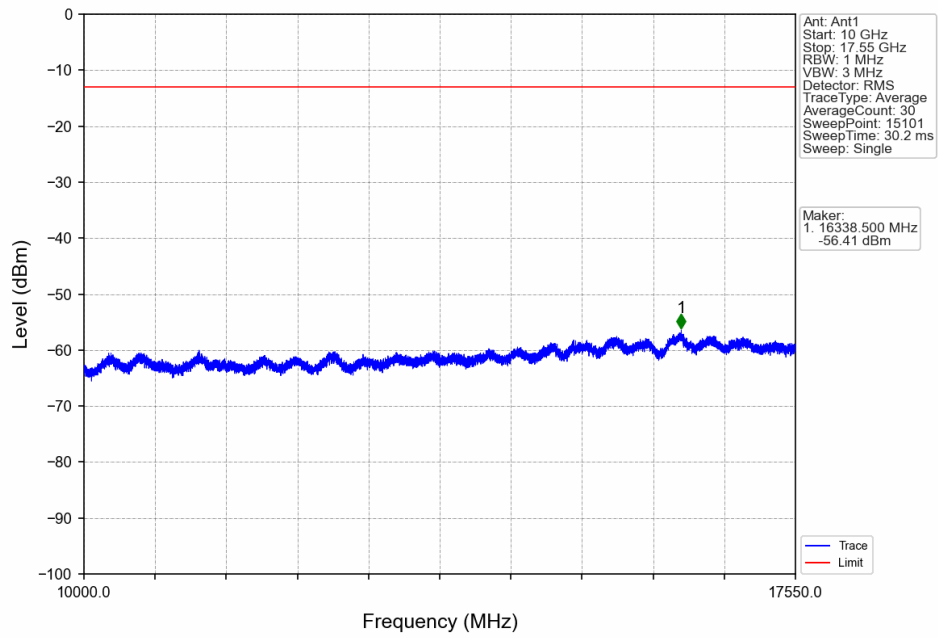


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV

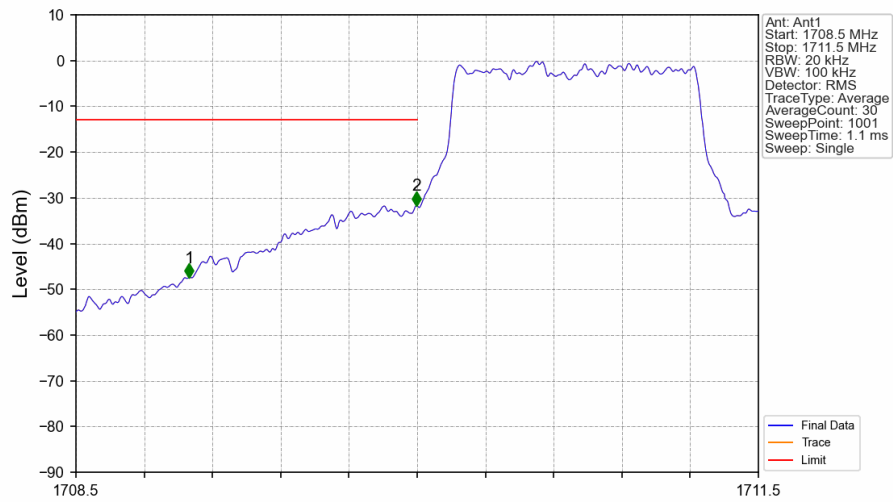




Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



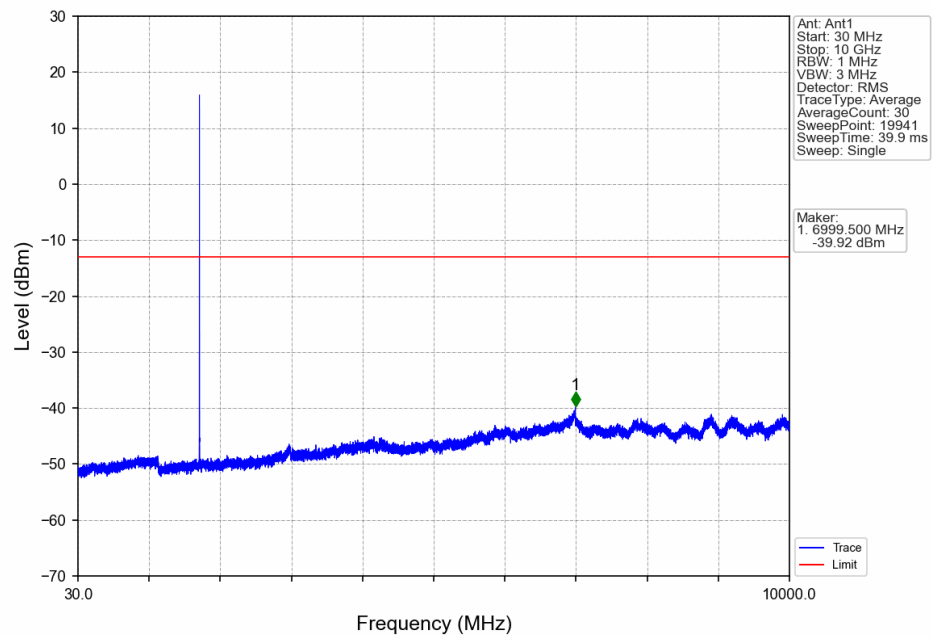
Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



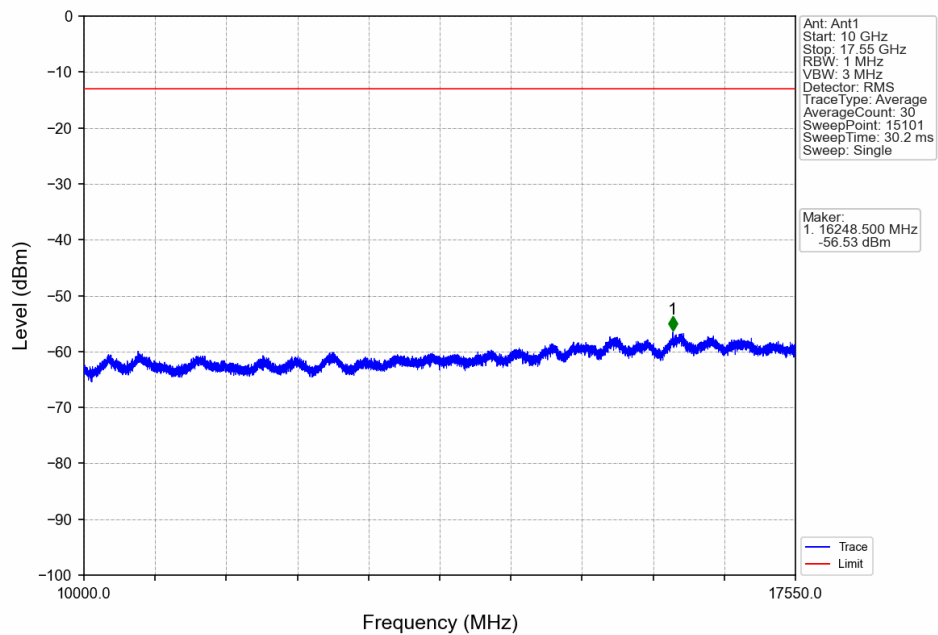
Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.998	-47.44	-13	Pass
1709	1710	0.02	/	2	1709.997	-31.72	-13	Pass
1710	1711.5	0.02	/	/	/	/	/	/



Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV

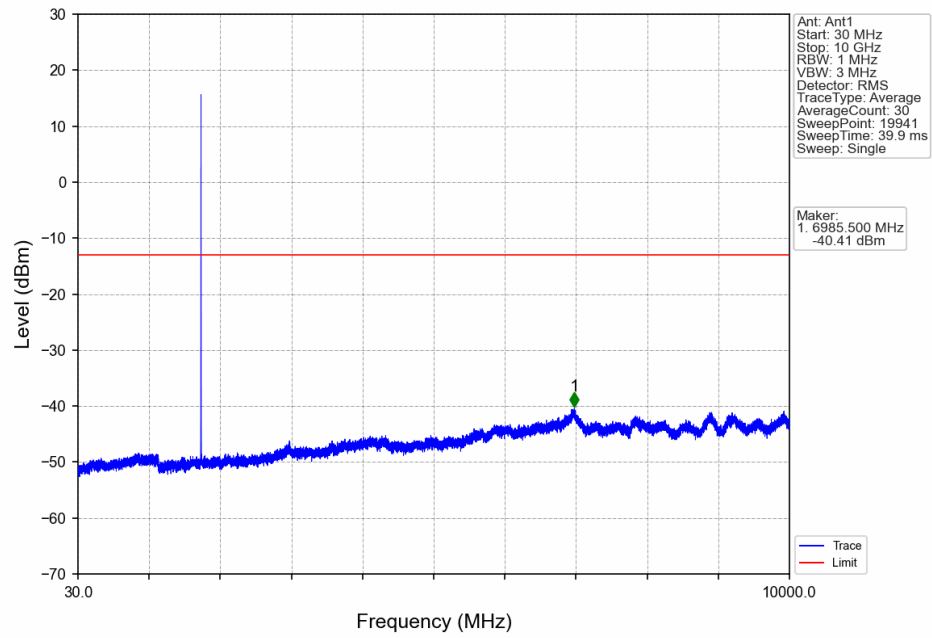


Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV

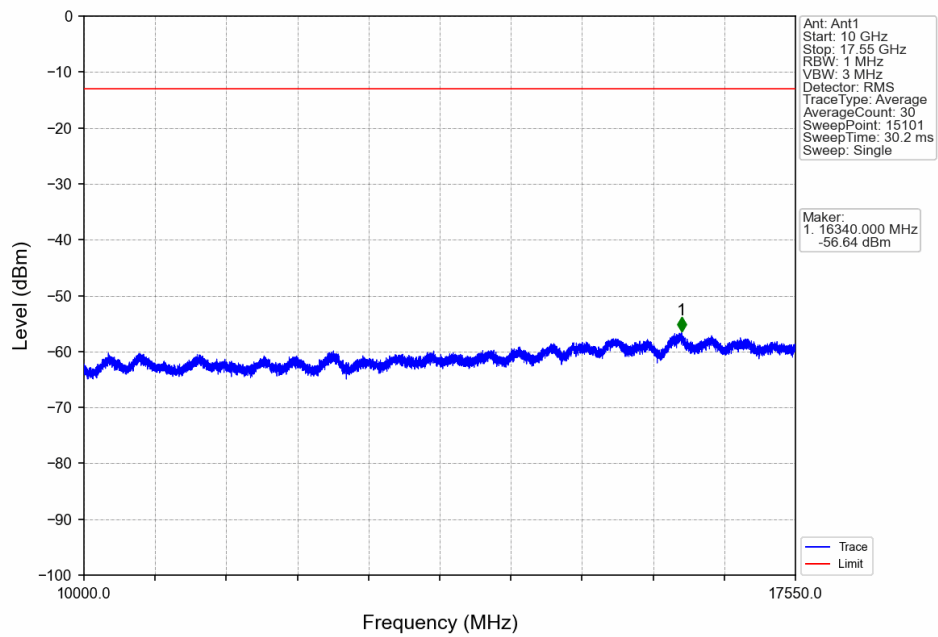




Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV

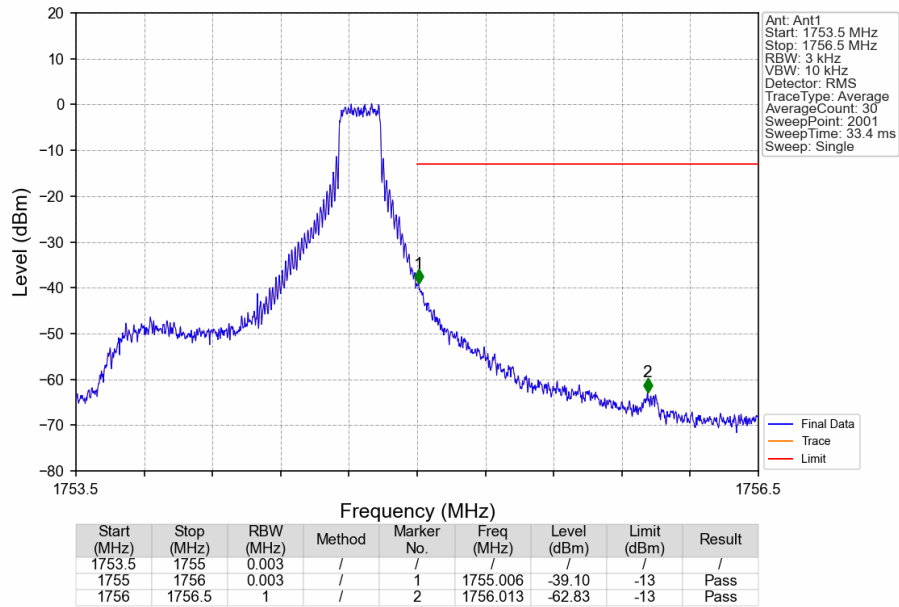


Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTNV

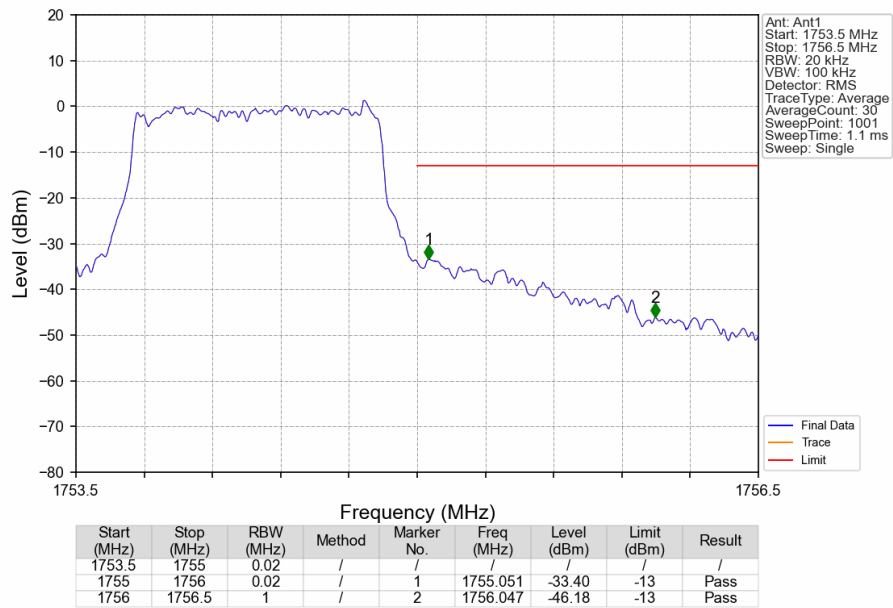




Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV





6.2 B4_3MHz

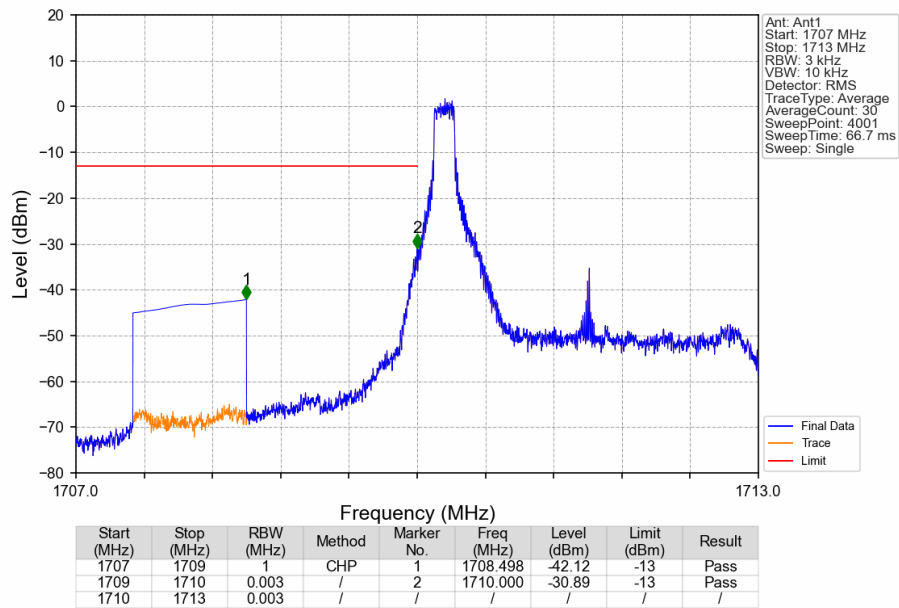
6.2.1 Test Result

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
16QAM	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

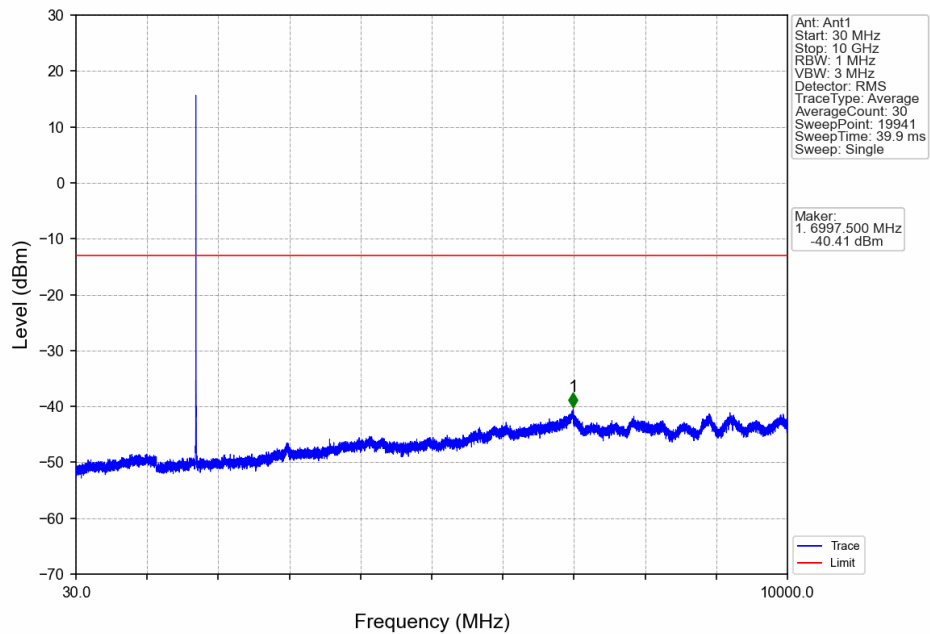


6.2.2 Test Graph

Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

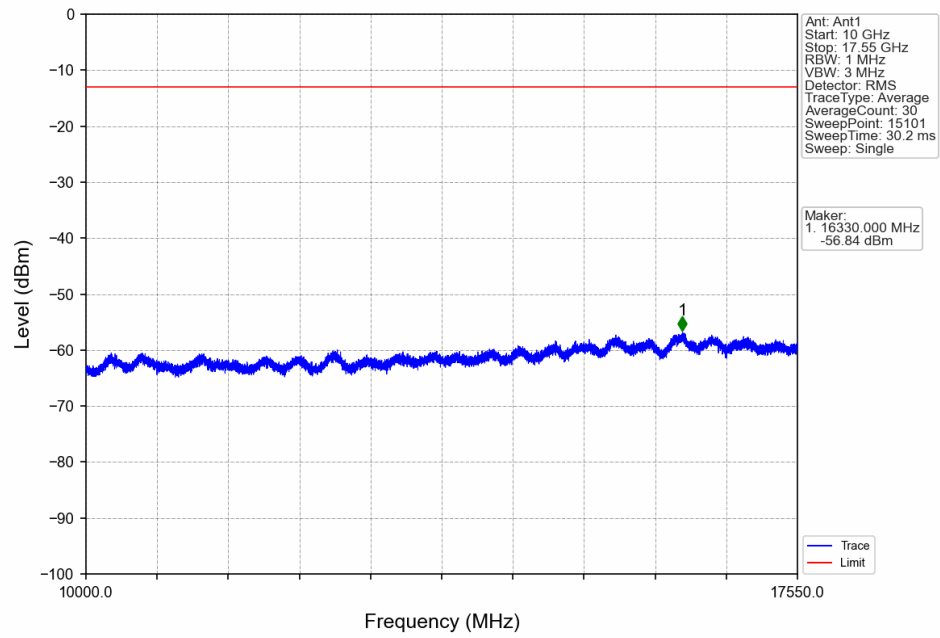


Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV

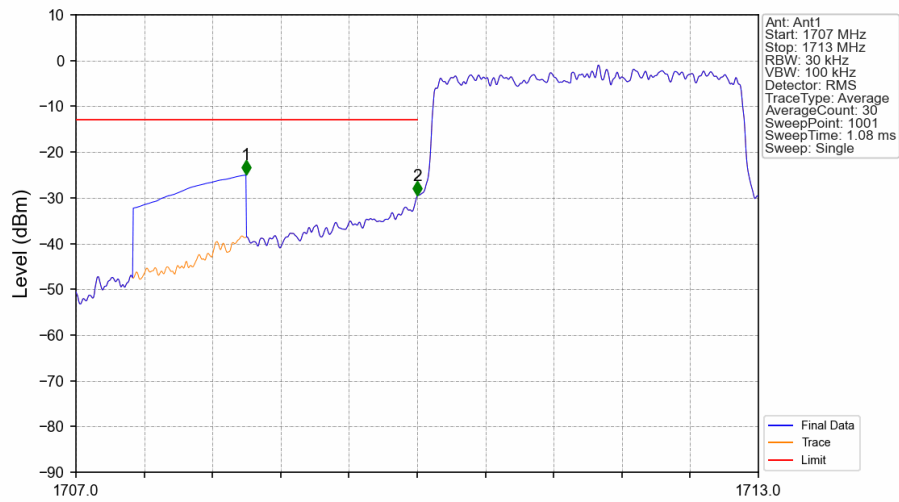




Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



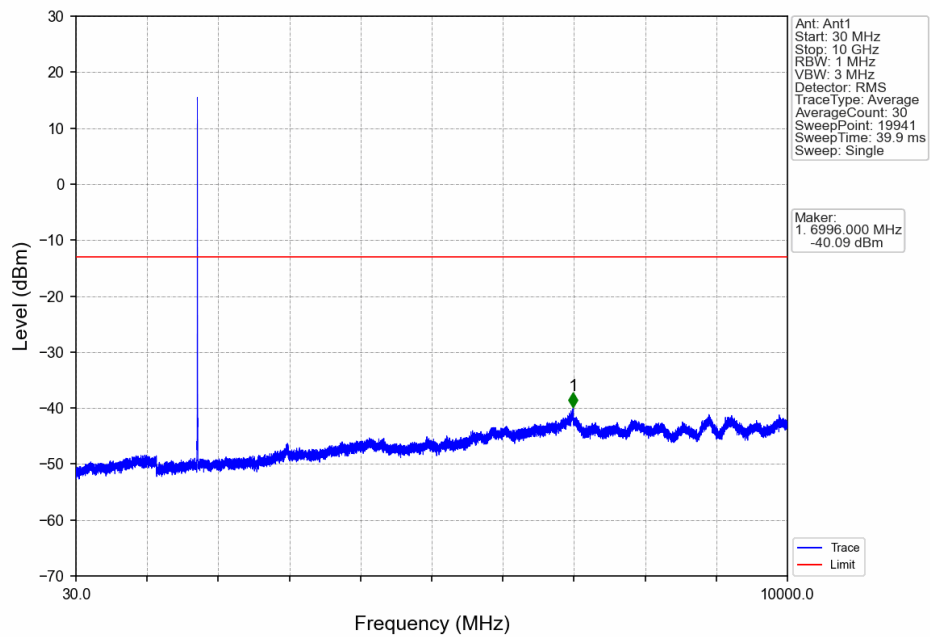
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



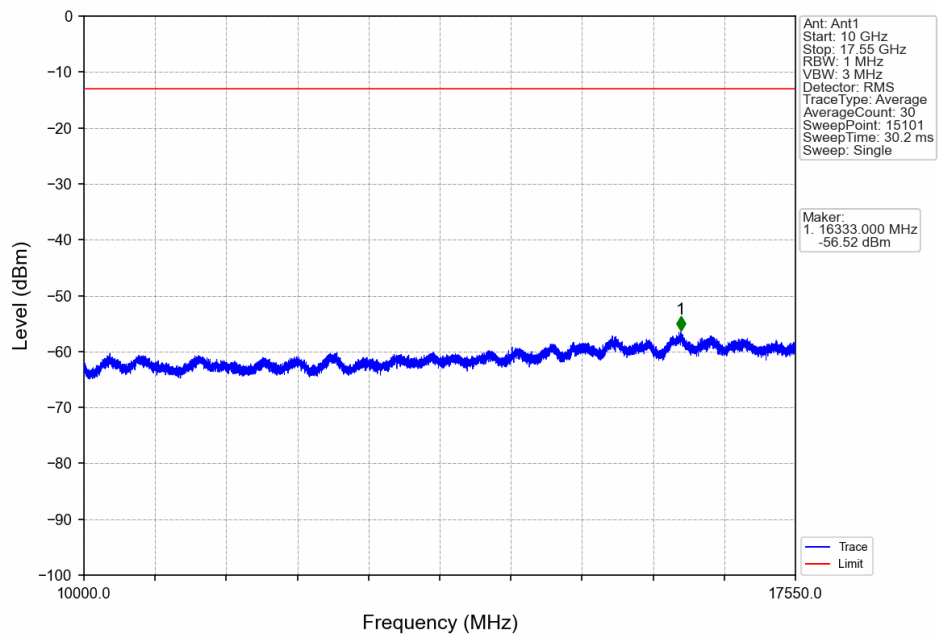
Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-25.00	-13	Pass
1709	1710	0.03	/	2	1710.000	-29.57	-13	Pass
1710	1713	0.03	/	/	/	/	/	/



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

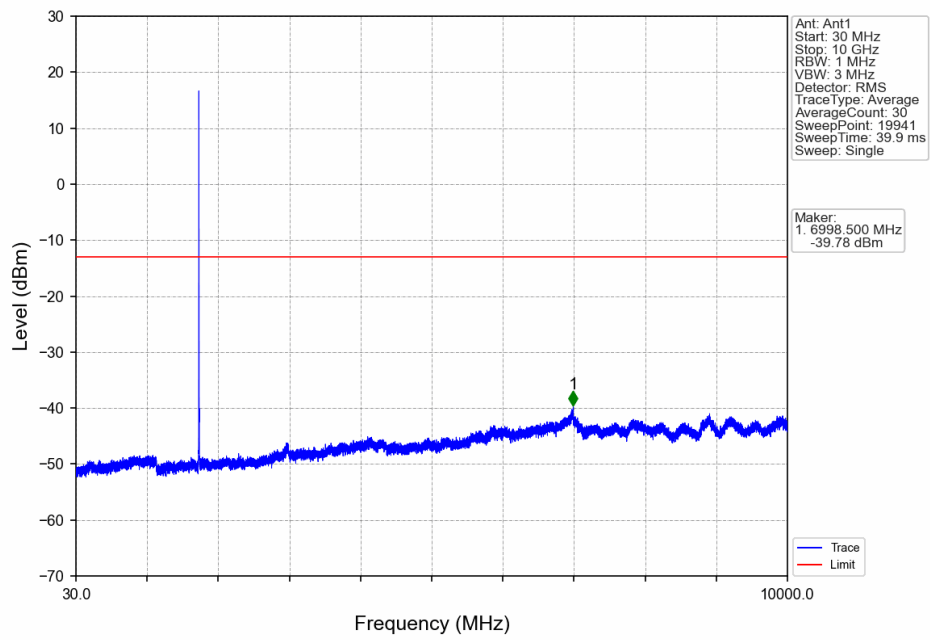


Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV

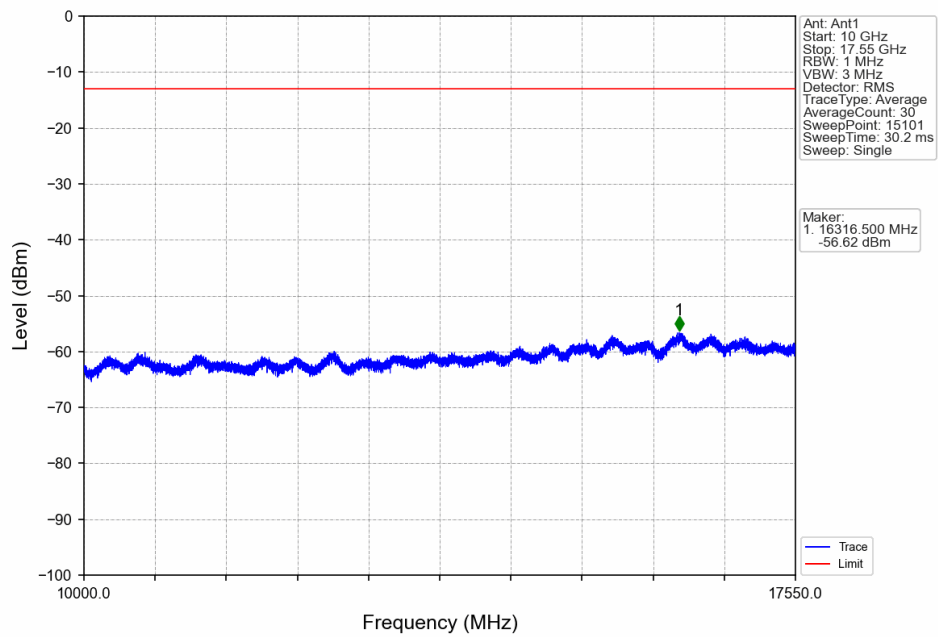




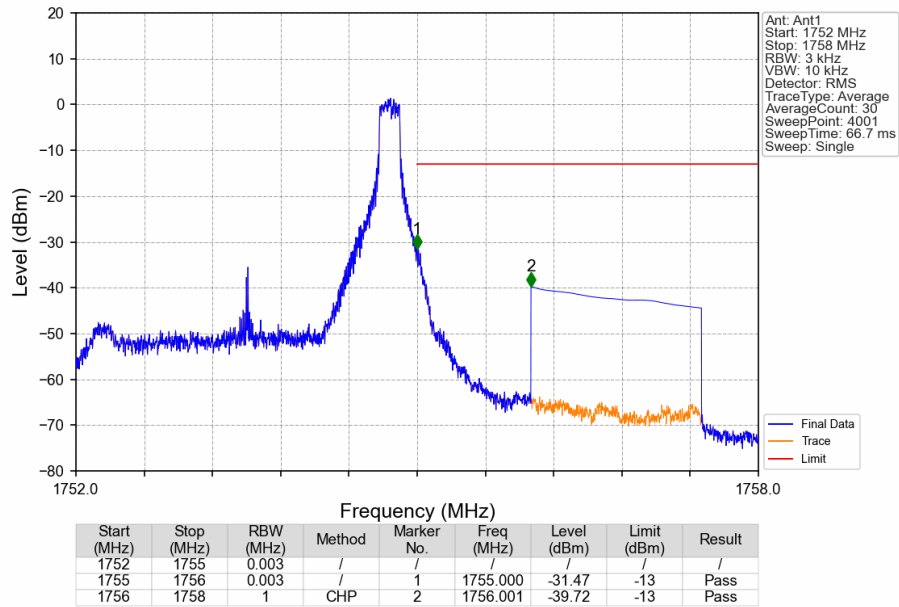
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



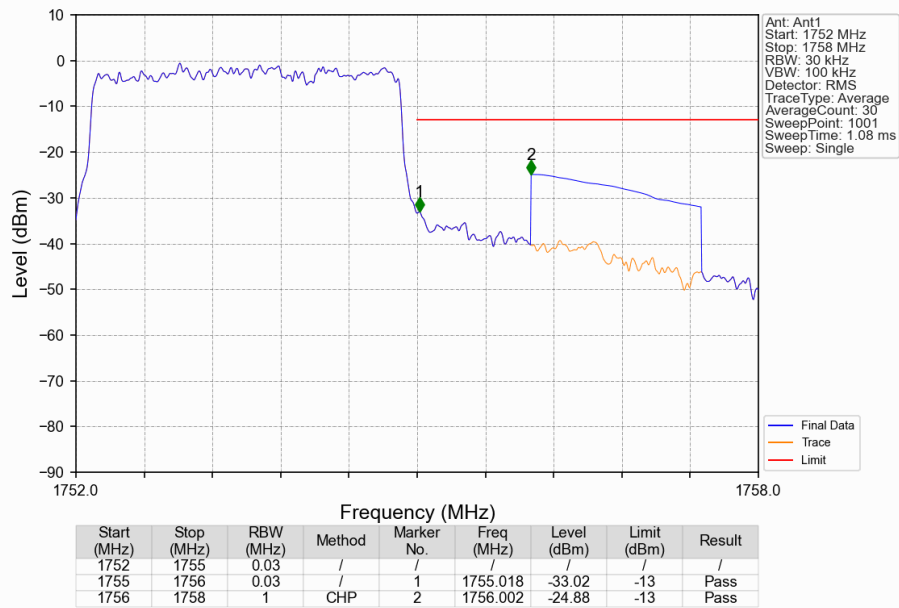
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



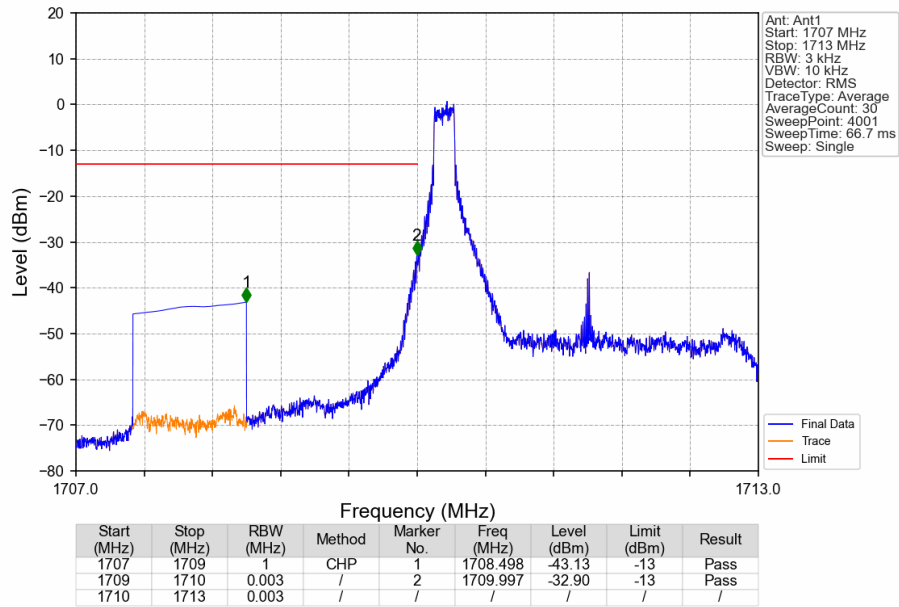
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



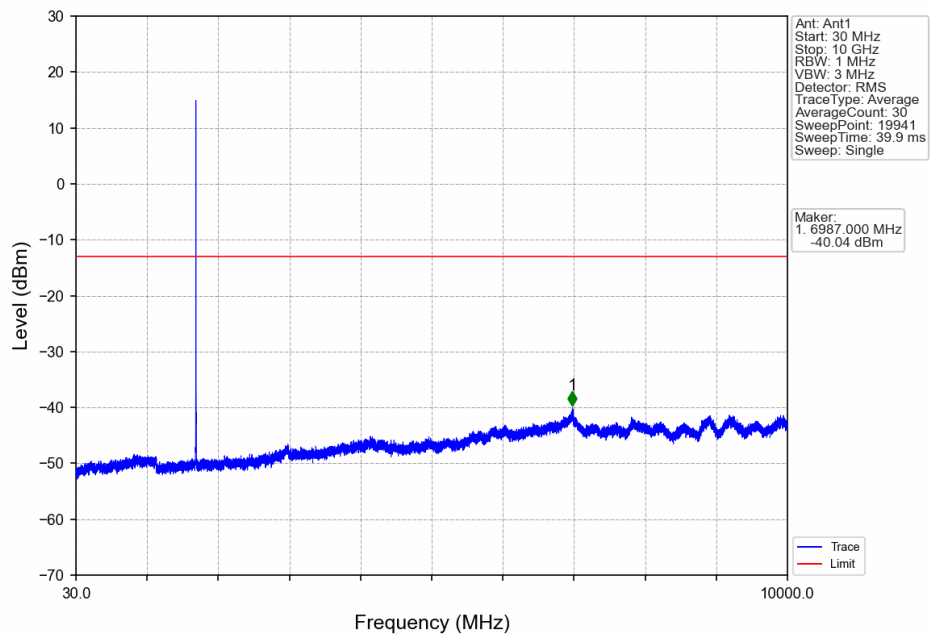
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

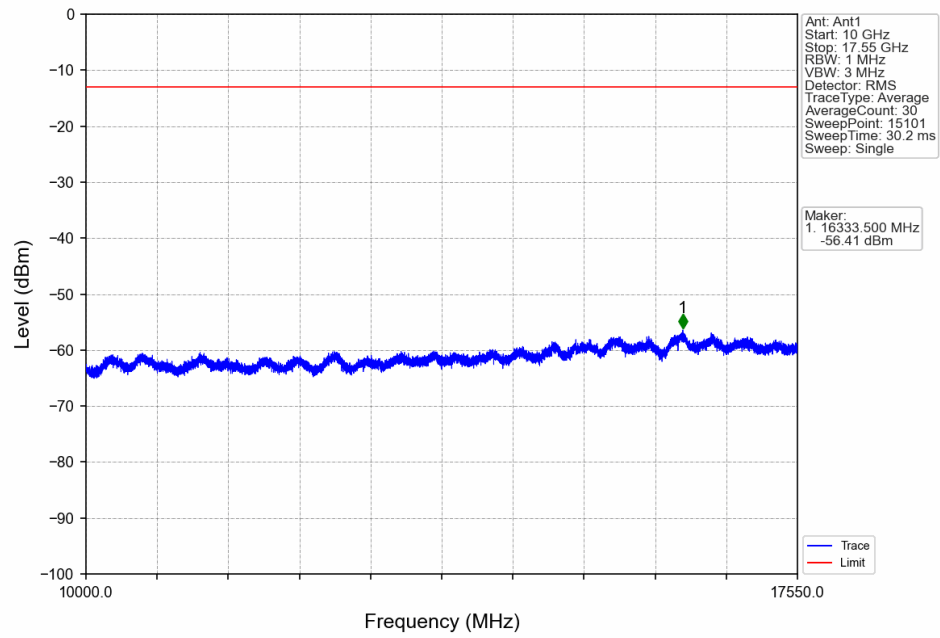


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV

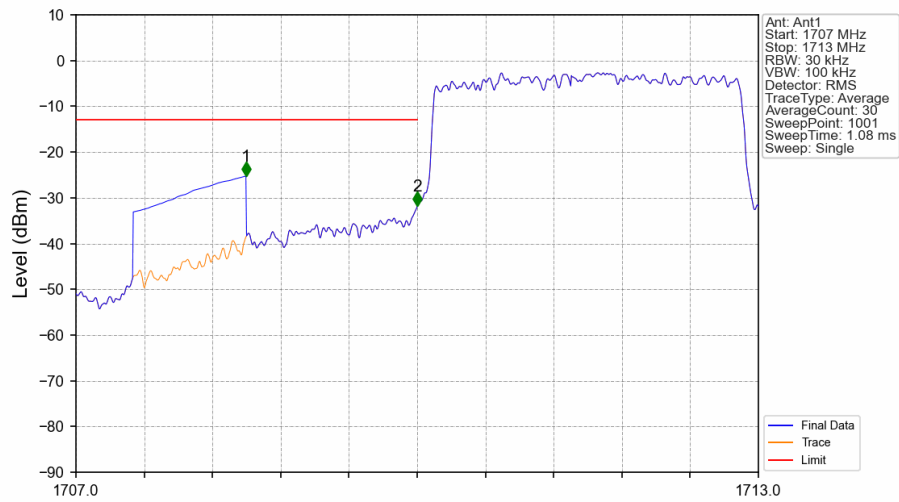




Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



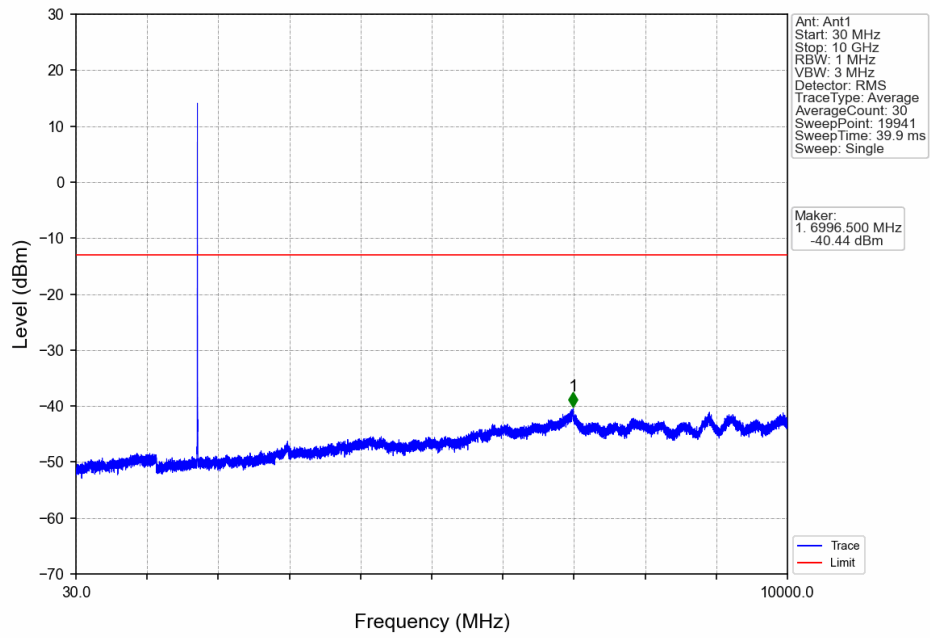
Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



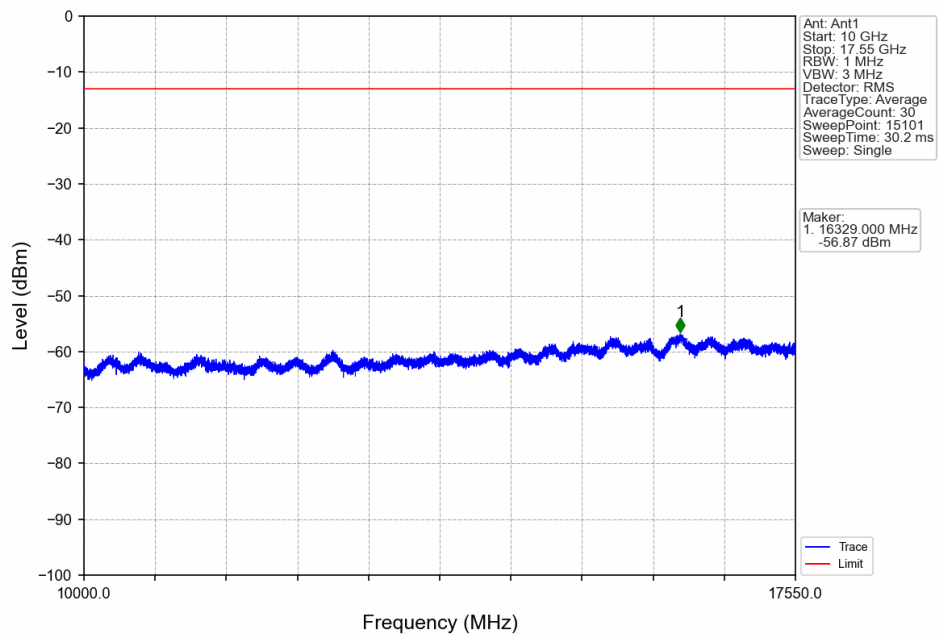
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.494	-25.27	-13	Pass
1709	1710	0.03	/	2	1710.000	-31.79	-13	Pass
1710	1713	0.03	/	/	/	/	/	/



Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV

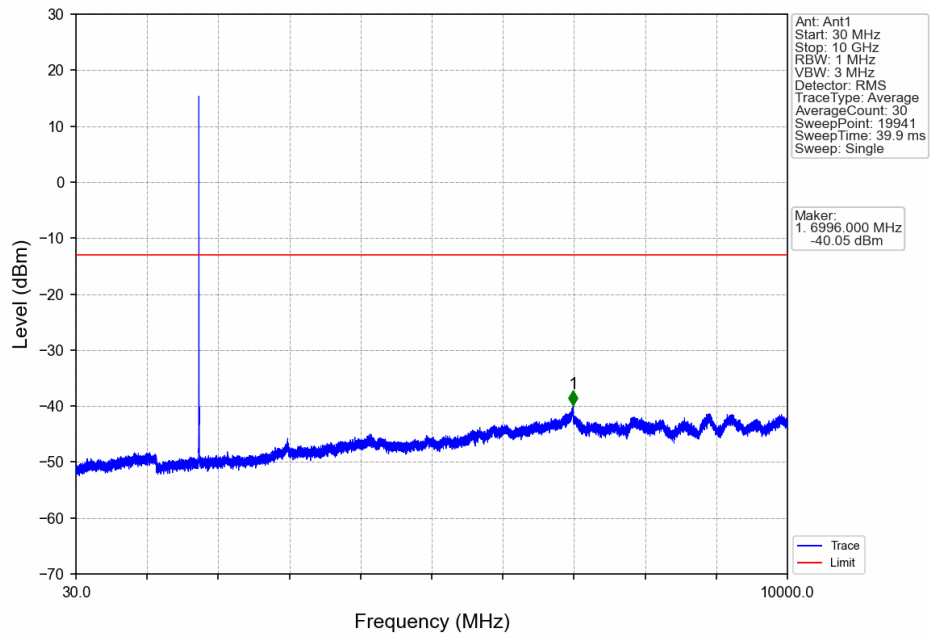


Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV

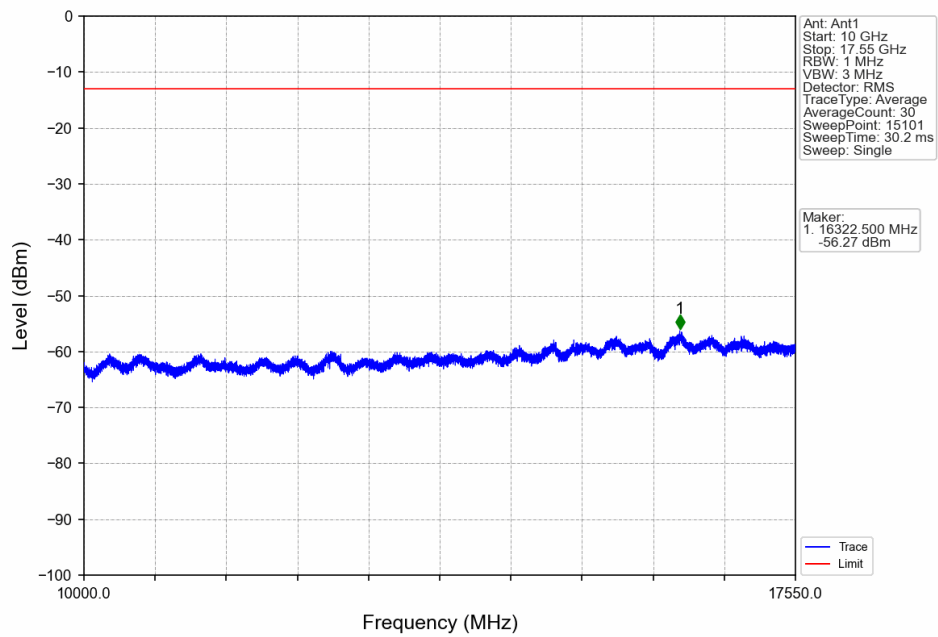




Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV

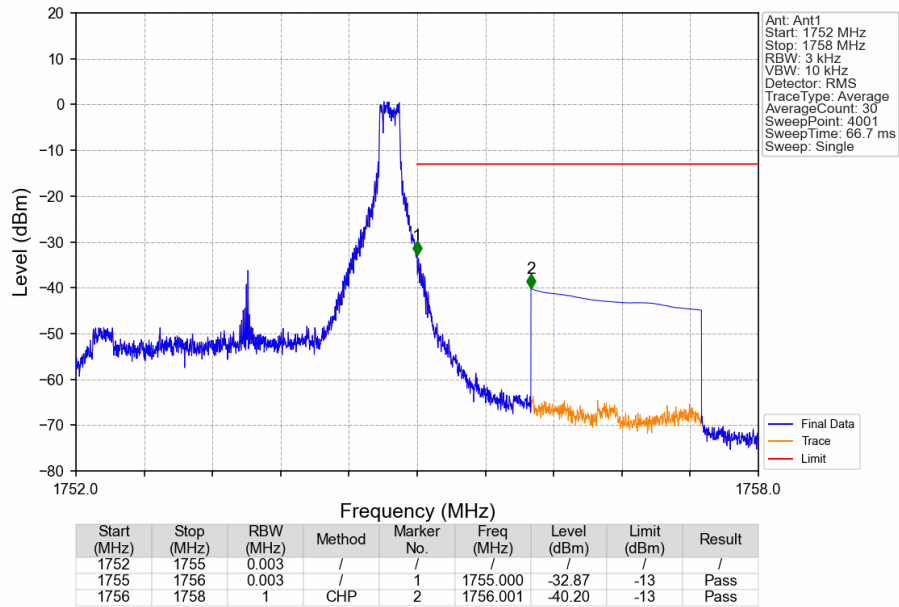


Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_0_NTNV

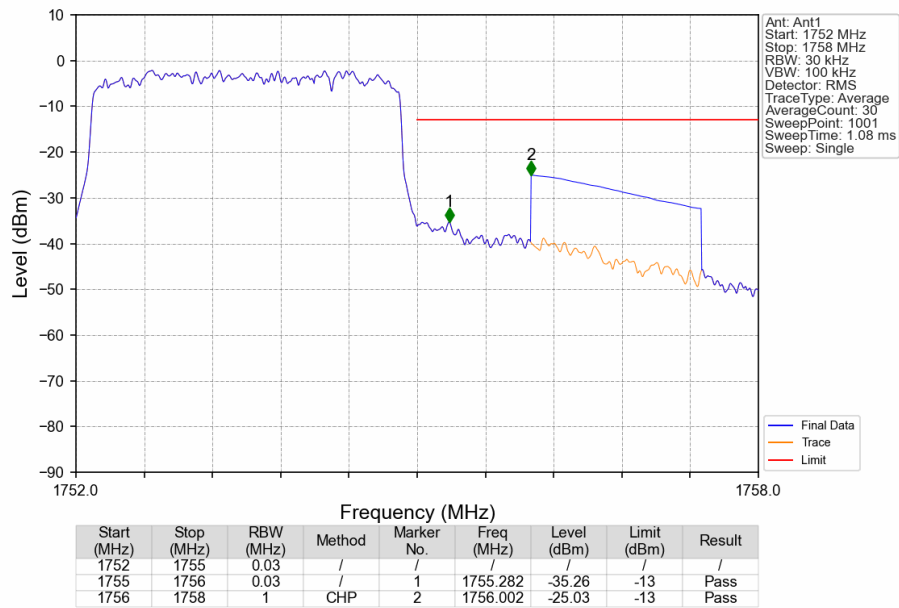




Band4_3MHz_16QAM_HCH_1753.5MHz_RB_1_14_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV





6.3 B4_5MHz

6.3.1 Test Result

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
16QAM	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