

5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.61	<=13	Pass
	1732.5	6	0	5.38	<=13	Pass
	1754.3	6	0	4.45	<=13	Pass
16QAM	1710.7	6	0	5.50	<=13	Pass
	1732.5	6	0	6.23	<=13	Pass
	1754.3	6	0	5.30	<=13	Pass

5.1.2 B4_3MHz

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	4.87	<=13	Pass
	1732.5	15	0	5.52	<=13	Pass
	1753.5	15	0	4.59	<=13	Pass
16QAM	1711.5	15	0	5.69	<=13	Pass
	1732.5	15	0	6.35	<=13	Pass
	1753.5	15	0	5.44	<=13	Pass

5.1.3 B4_5MHz

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.15	<=13	Pass
	1732.5	25	0	5.74	<=13	Pass
	1752.5	25	0	4.94	<=13	Pass
16QAM	1712.5	25	0	5.86	<=13	Pass
	1732.5	25	0	6.41	<=13	Pass
	1752.5	25	0	5.67	<=13	Pass

5.1.4 B4_10MHz

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.09	<=13	Pass
	1732.5	50	0	5.65	<=13	Pass
	1750	50	0	4.90	<=13	Pass
16QAM	1715	50	0	5.84	<=13	Pass
	1732.5	50	0	6.42	<=13	Pass
	1750	50	0	5.63	<=13	Pass

5.1.5 B4_15MHz

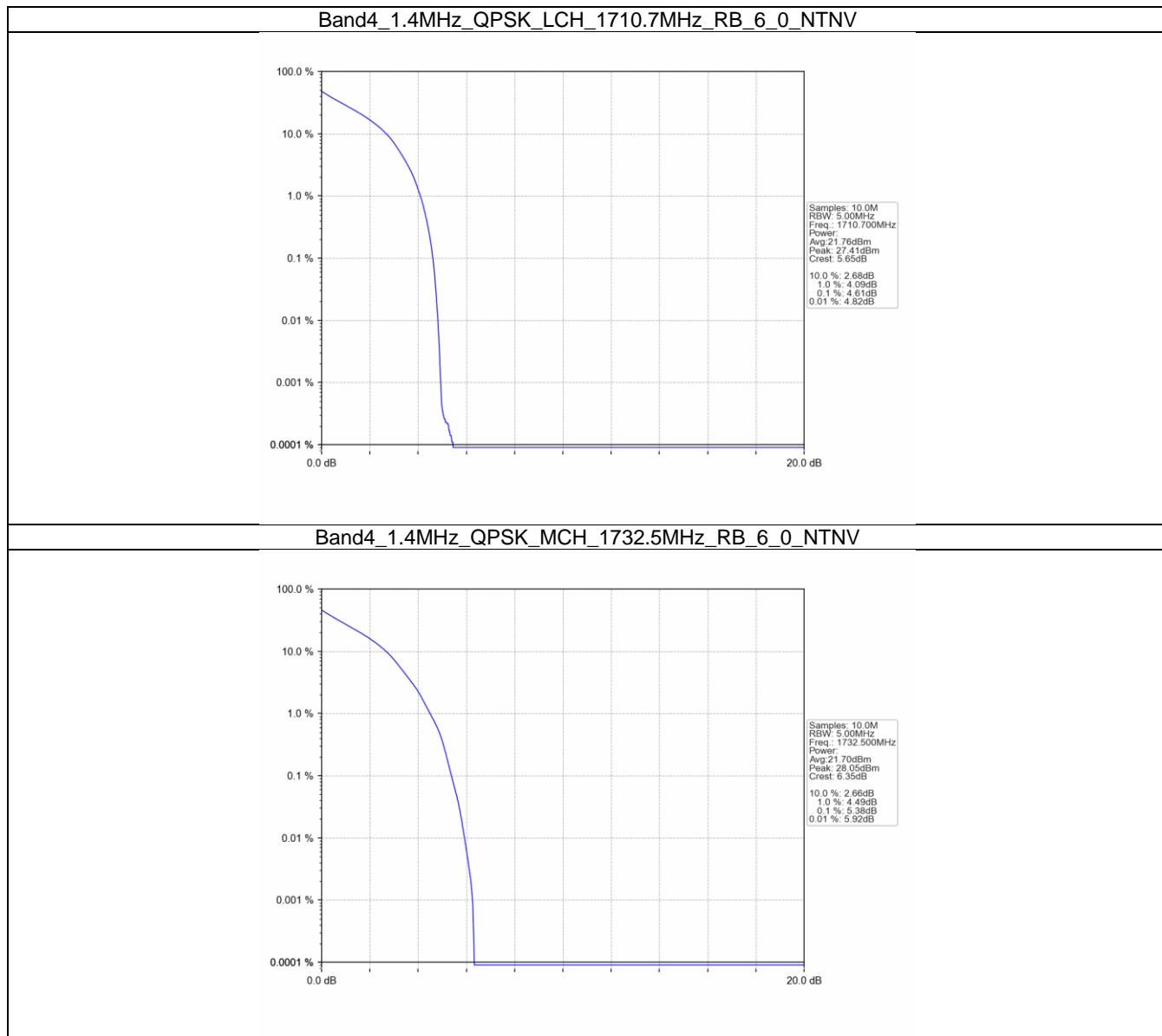
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.03	<=13	Pass
	1732.5	75	0	5.24	<=13	Pass
	1747.5	75	0	5.01	<=13	Pass
16QAM	1717.5	75	0	6.03	<=13	Pass
	1732.5	75	0	6.28	<=13	Pass
	1747.5	75	0	5.90	<=13	Pass

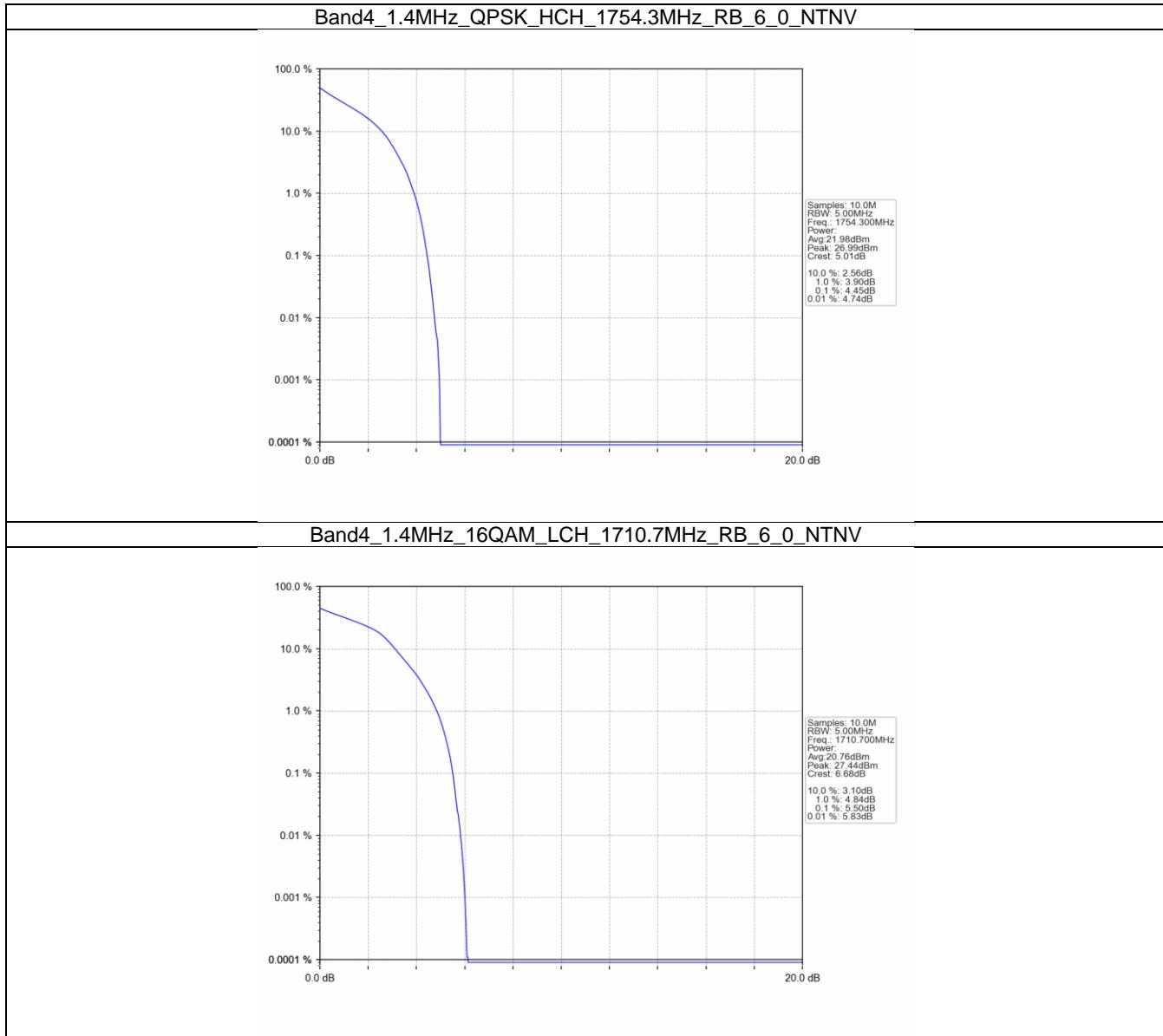
5.1.6 B4_20MHz

Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.66	<=13	Pass
	1732.5	100	0	5.69	<=13	Pass
	1745	100	0	5.60	<=13	Pass
16QAM	1720	100	0	6.59	<=13	Pass
	1732.5	100	0	6.68	<=13	Pass
	1745	100	0	6.57	<=13	Pass

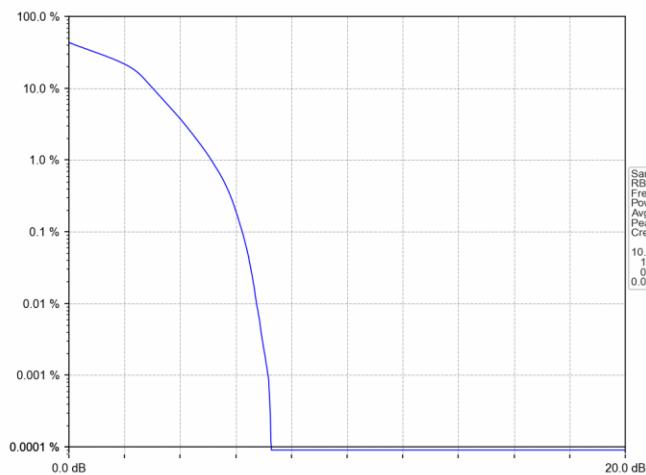
5.2 Test Graph

5.2.1 B4_1.4MHz

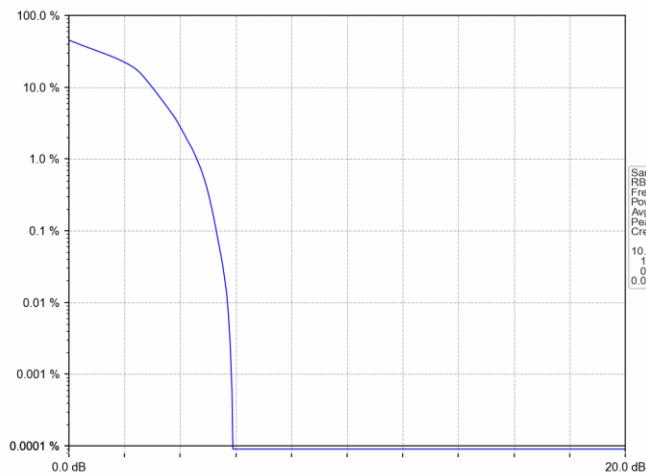




Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV

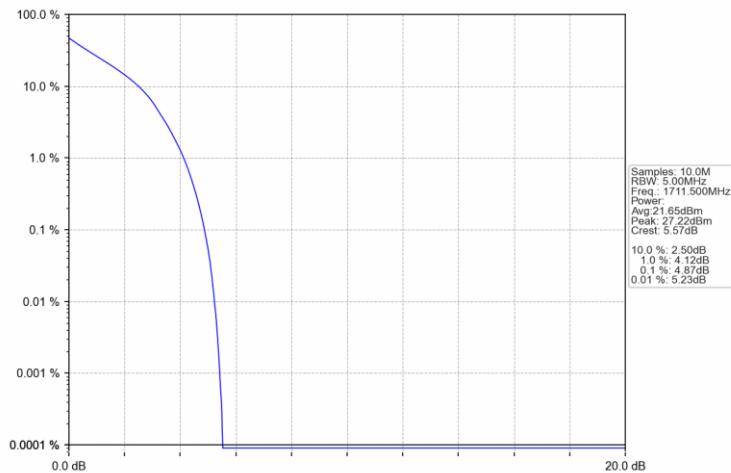


Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV

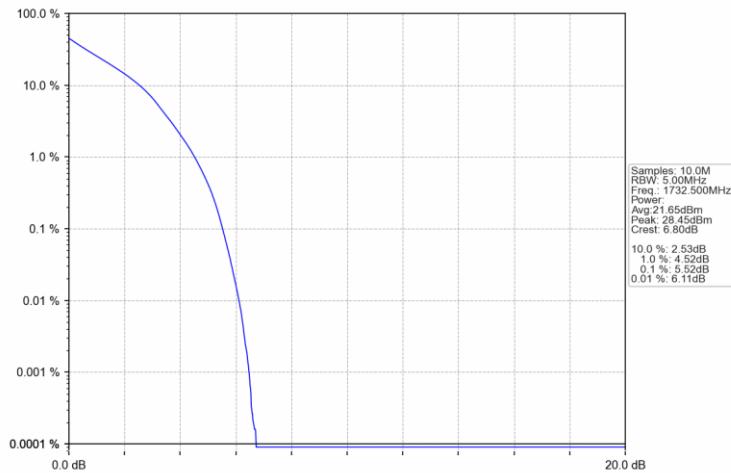


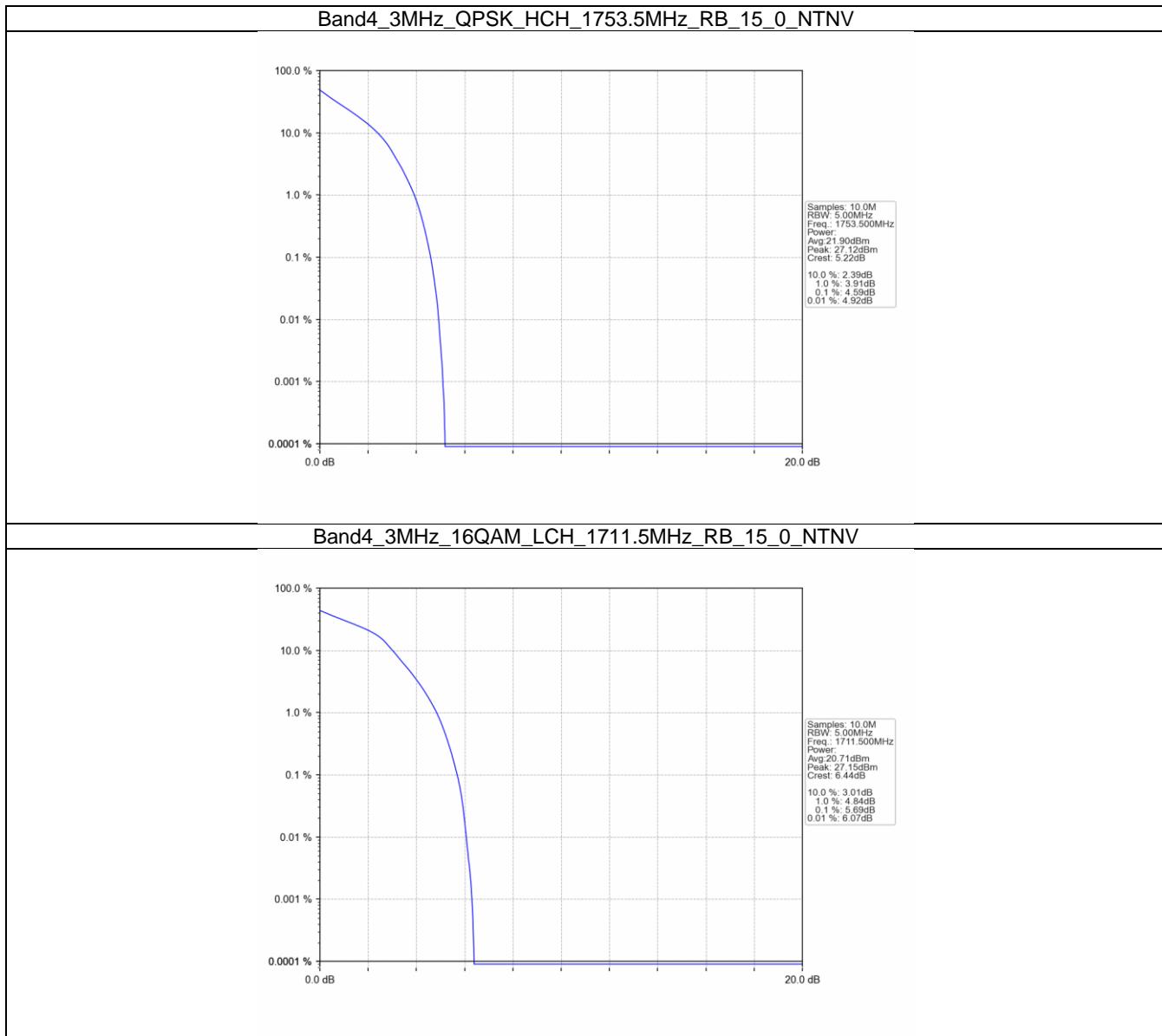
5.2.2 B4_3MHz

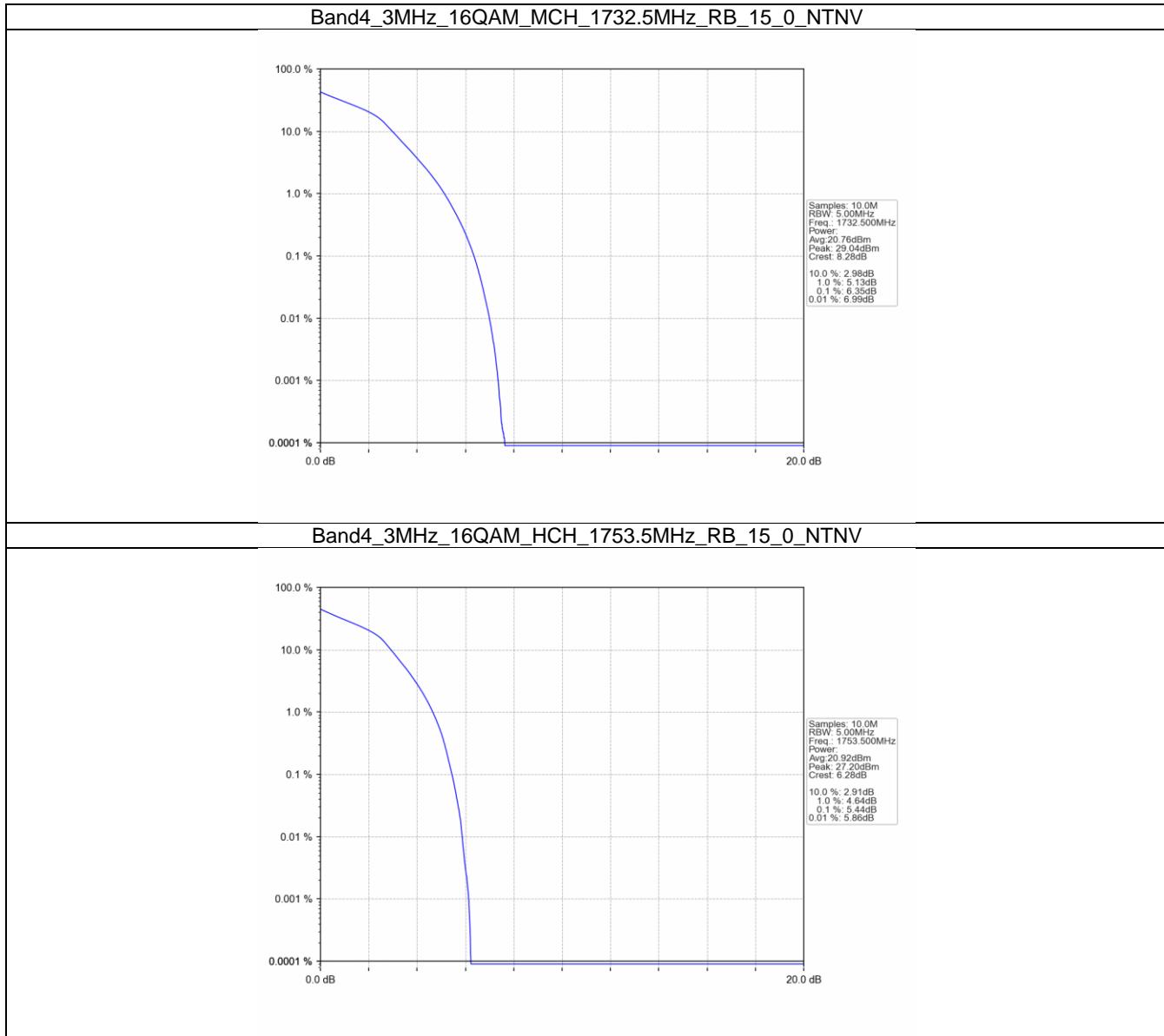
Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



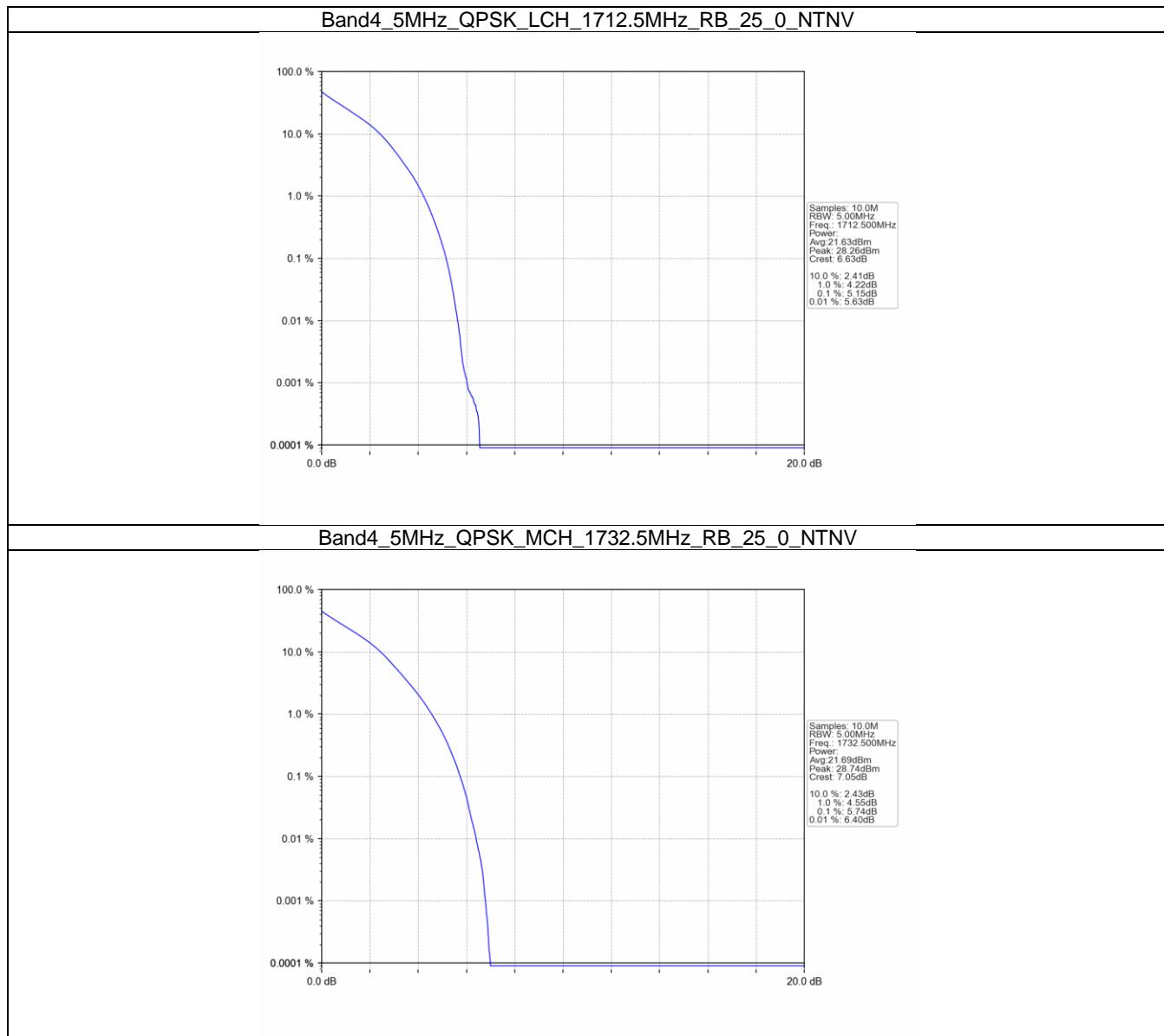
Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

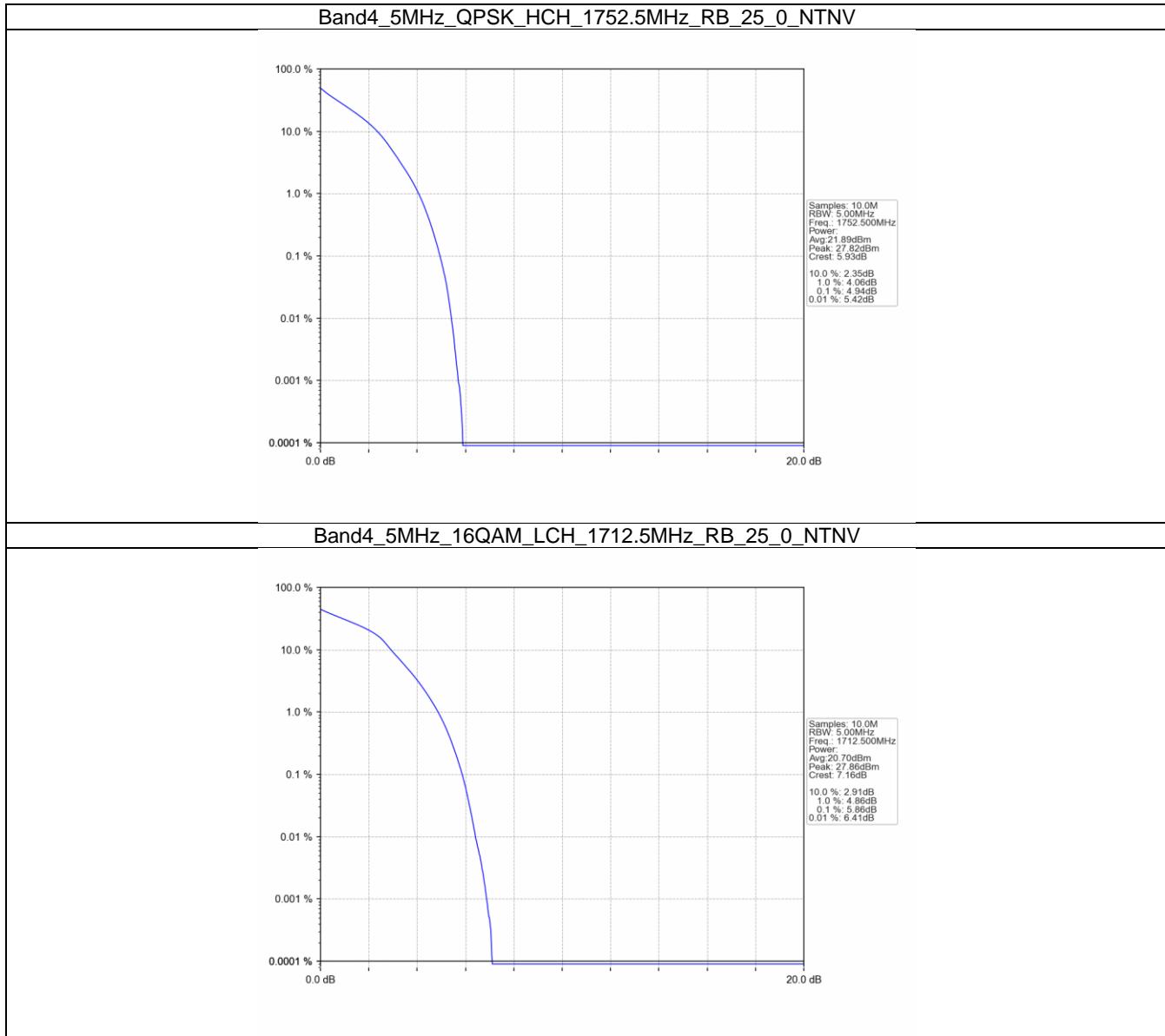


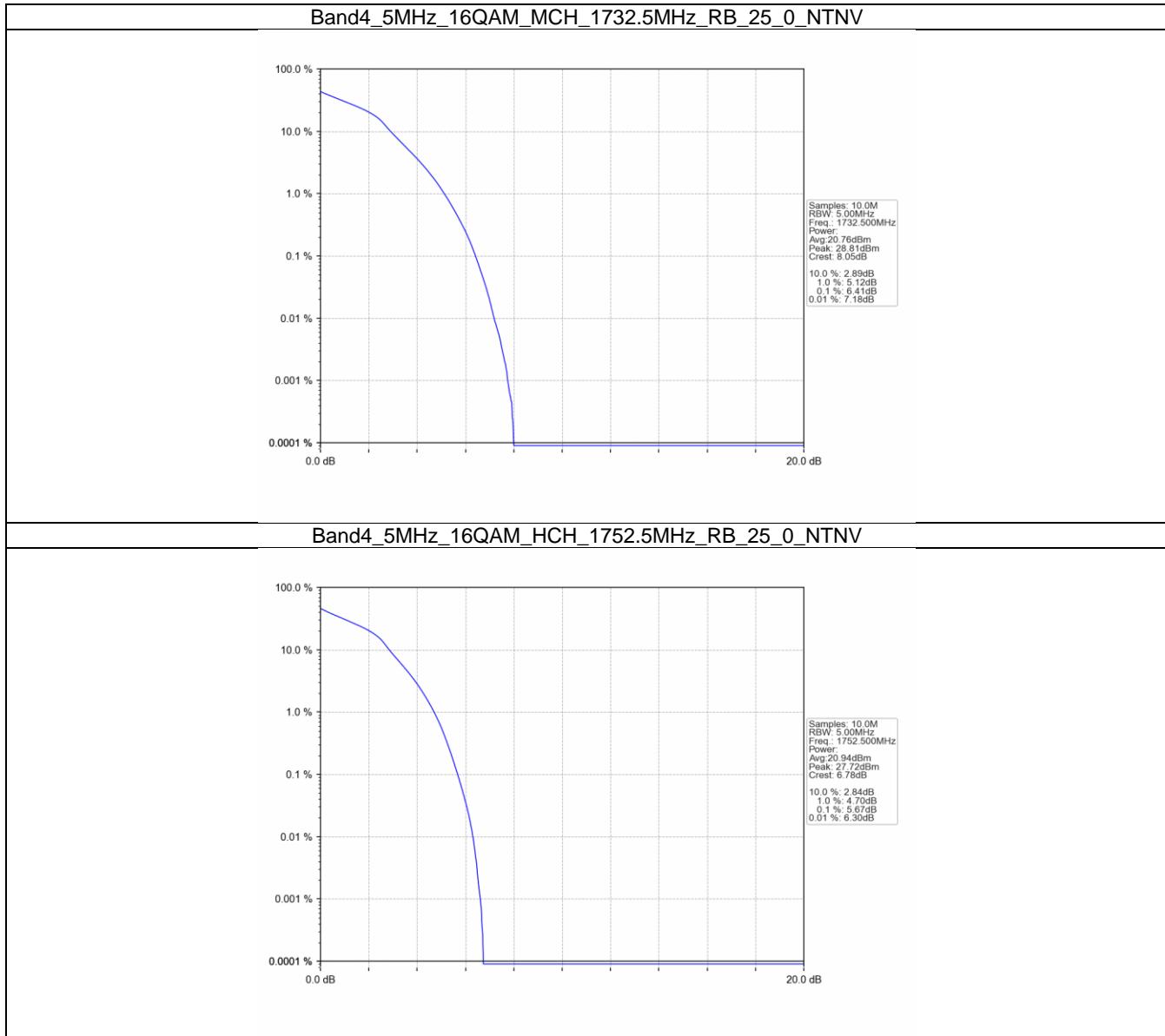




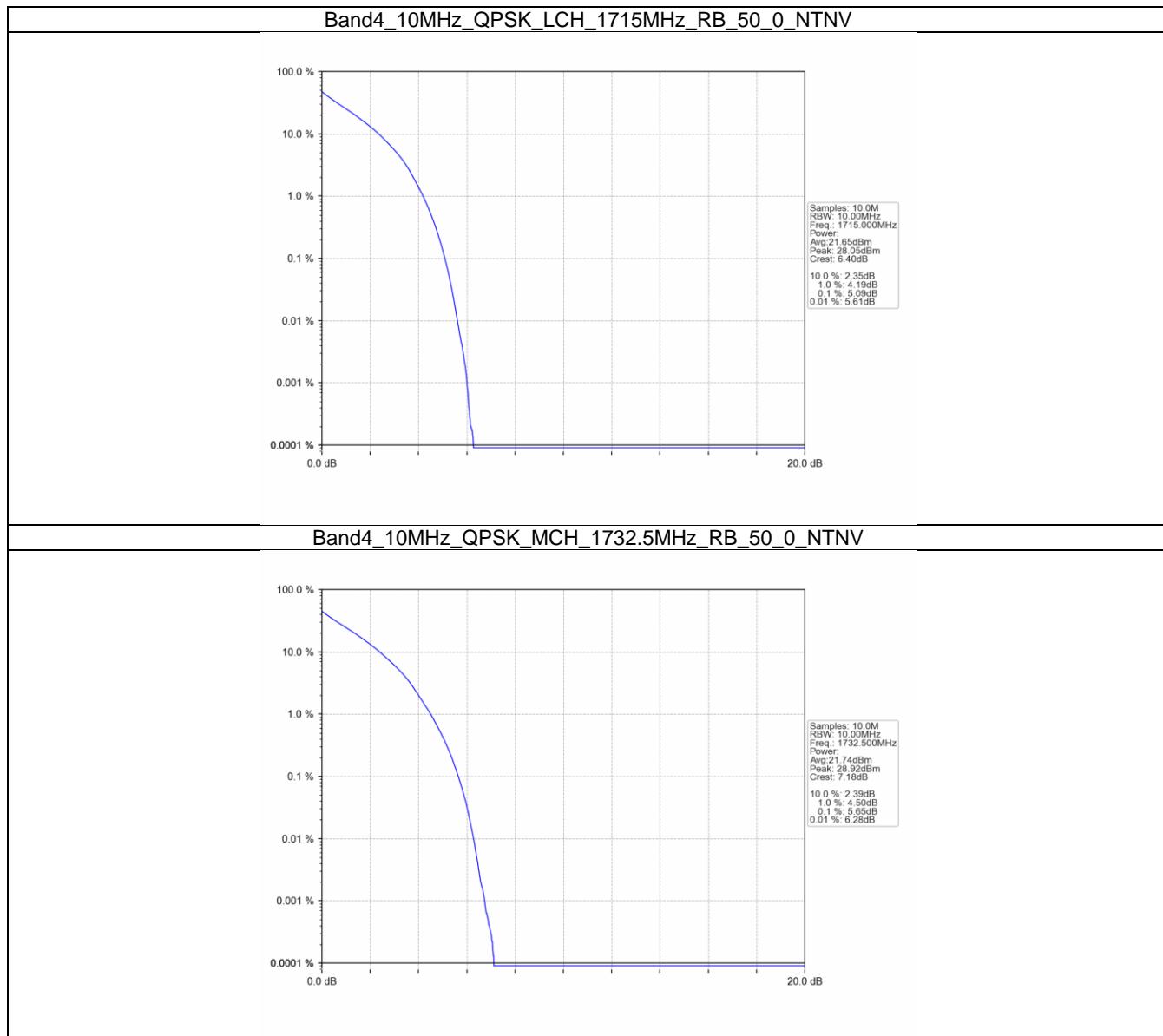
5.2.3 B4_5MHz

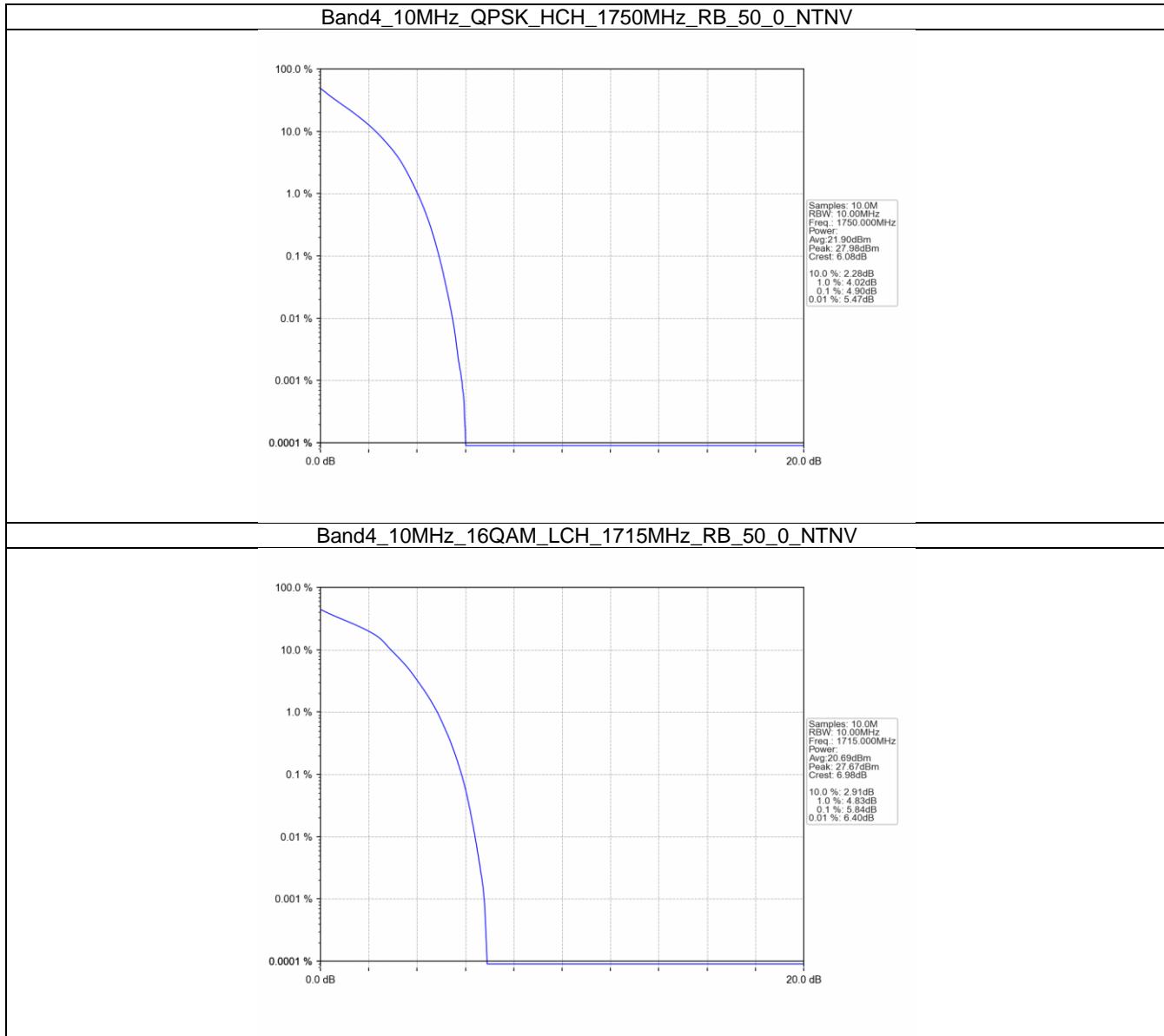




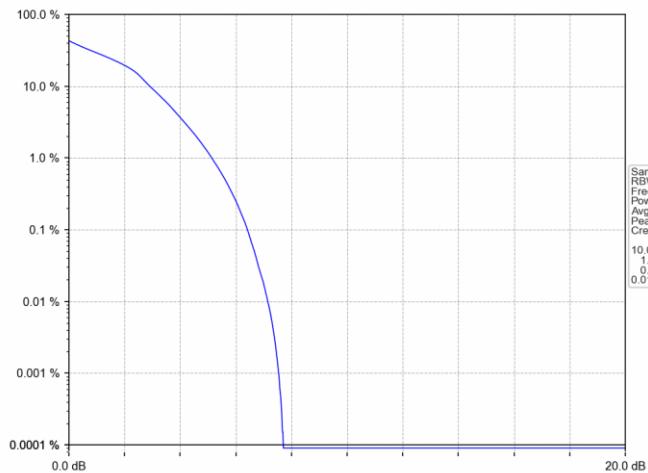


5.2.4 B4_10MHz

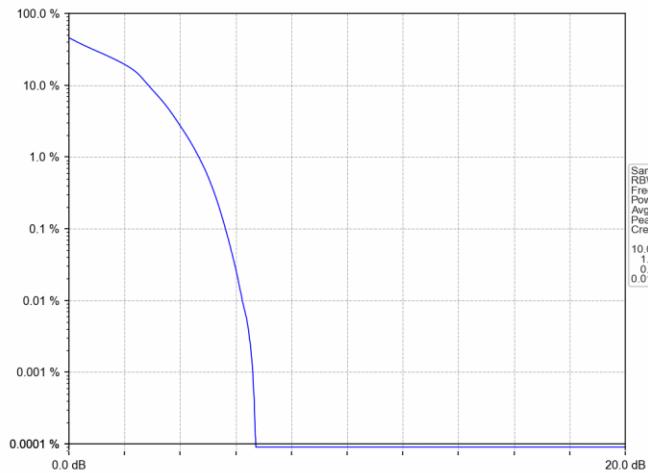




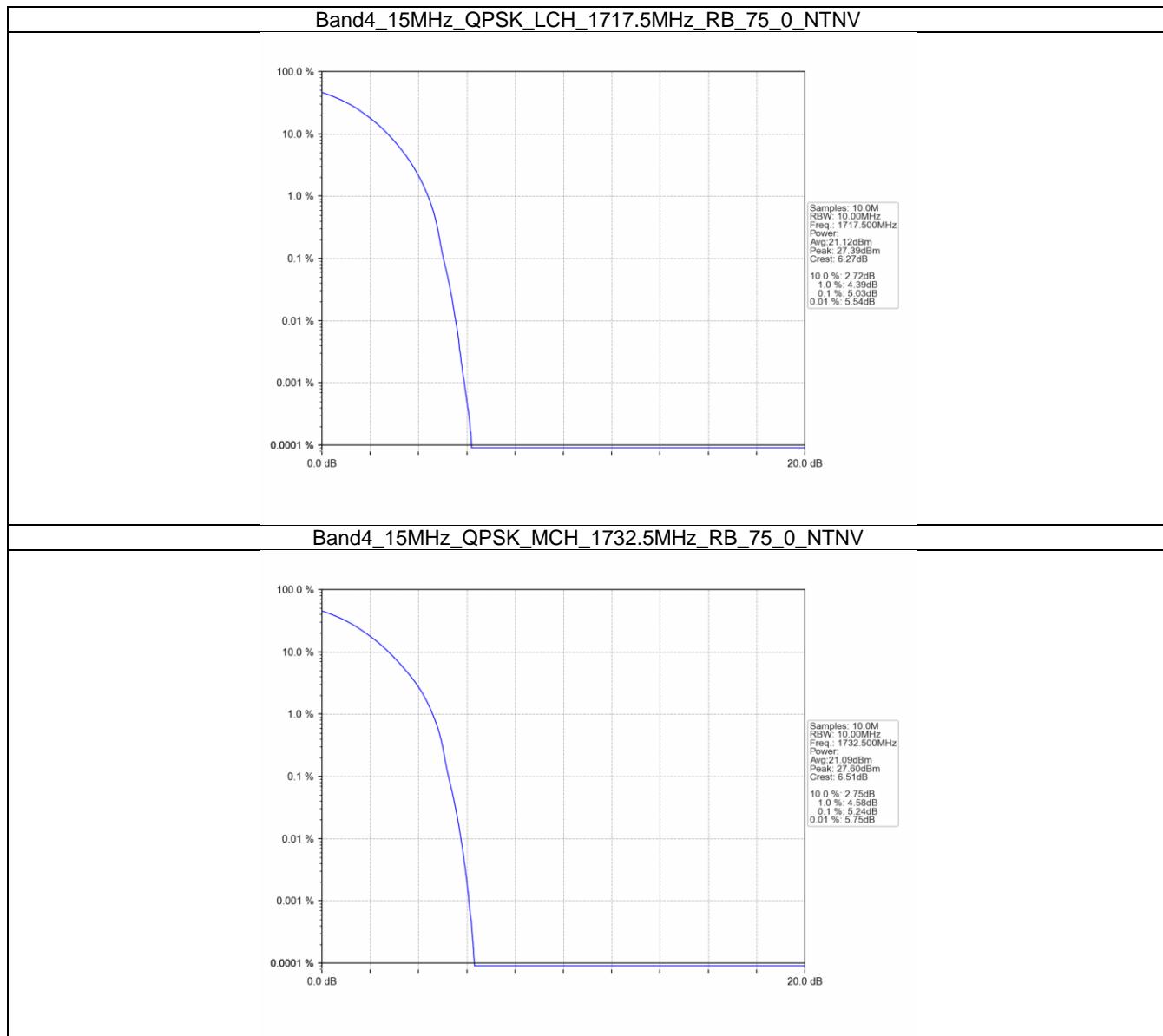
Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

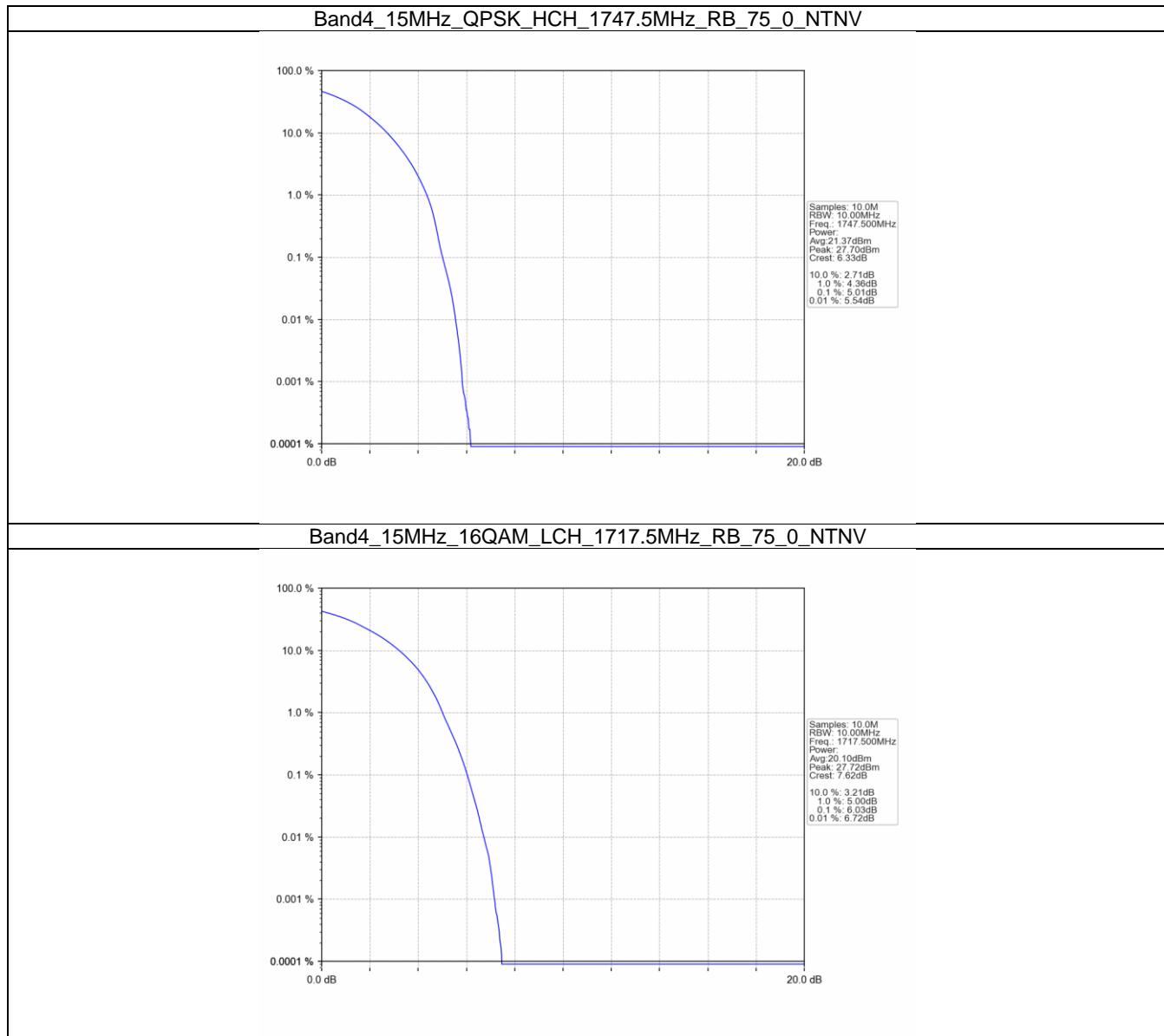


Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV

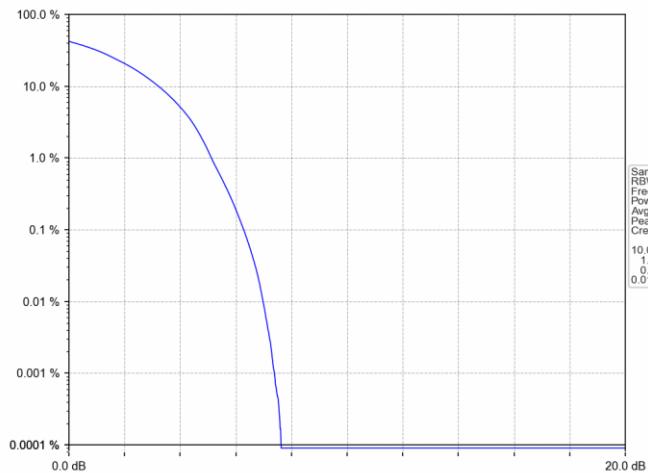


5.2.5 B4_15MHz

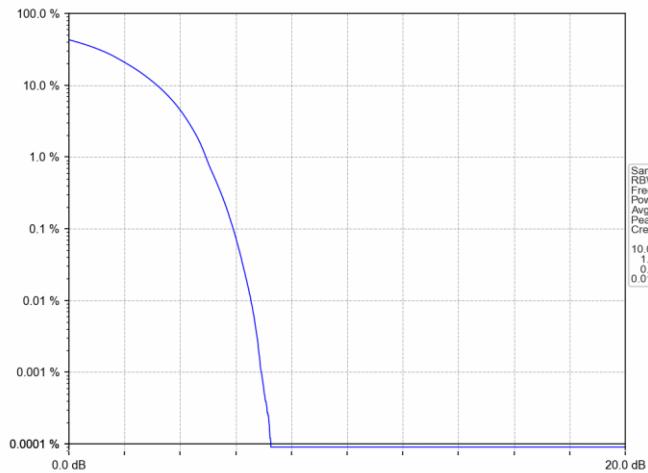




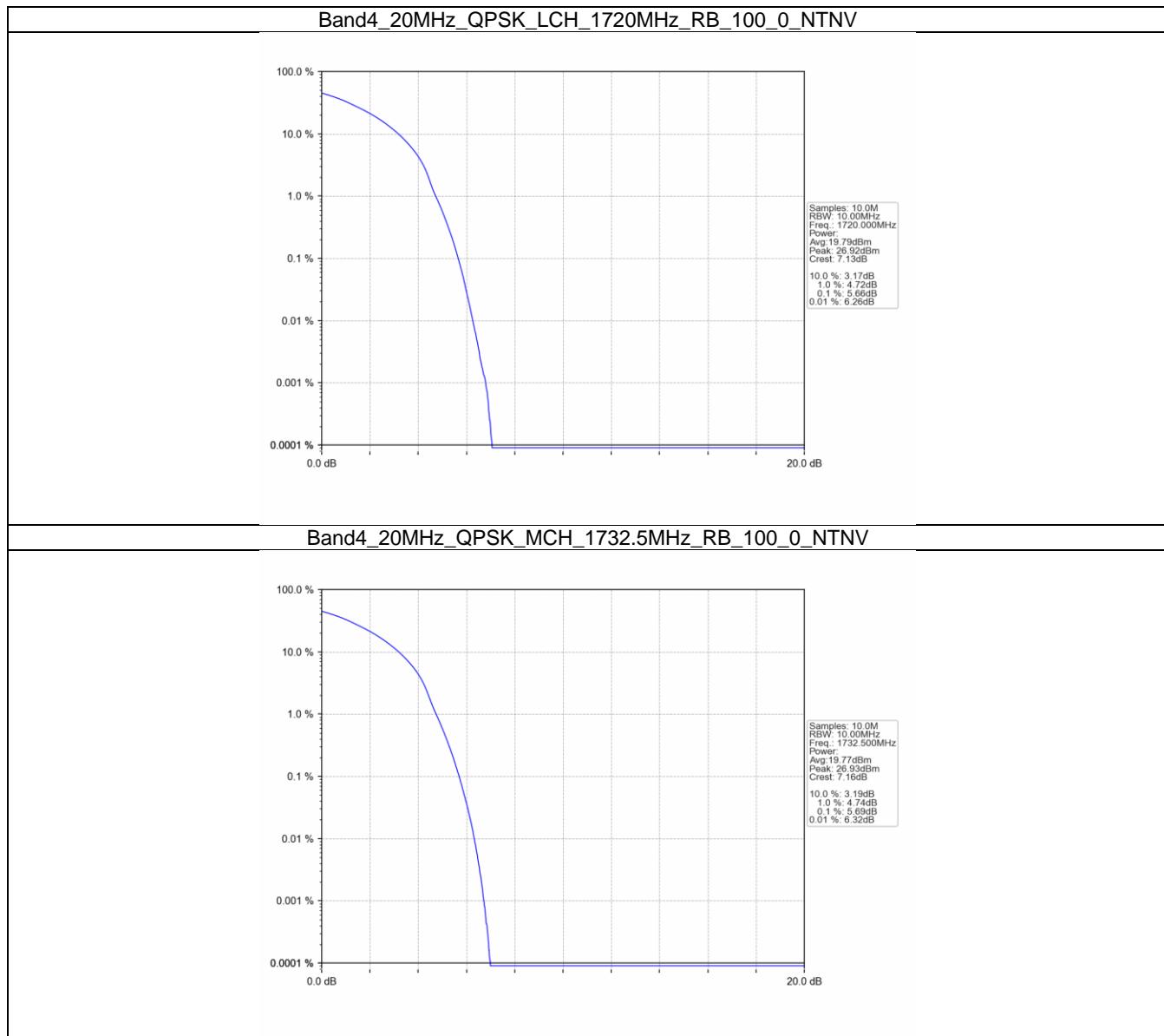
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV

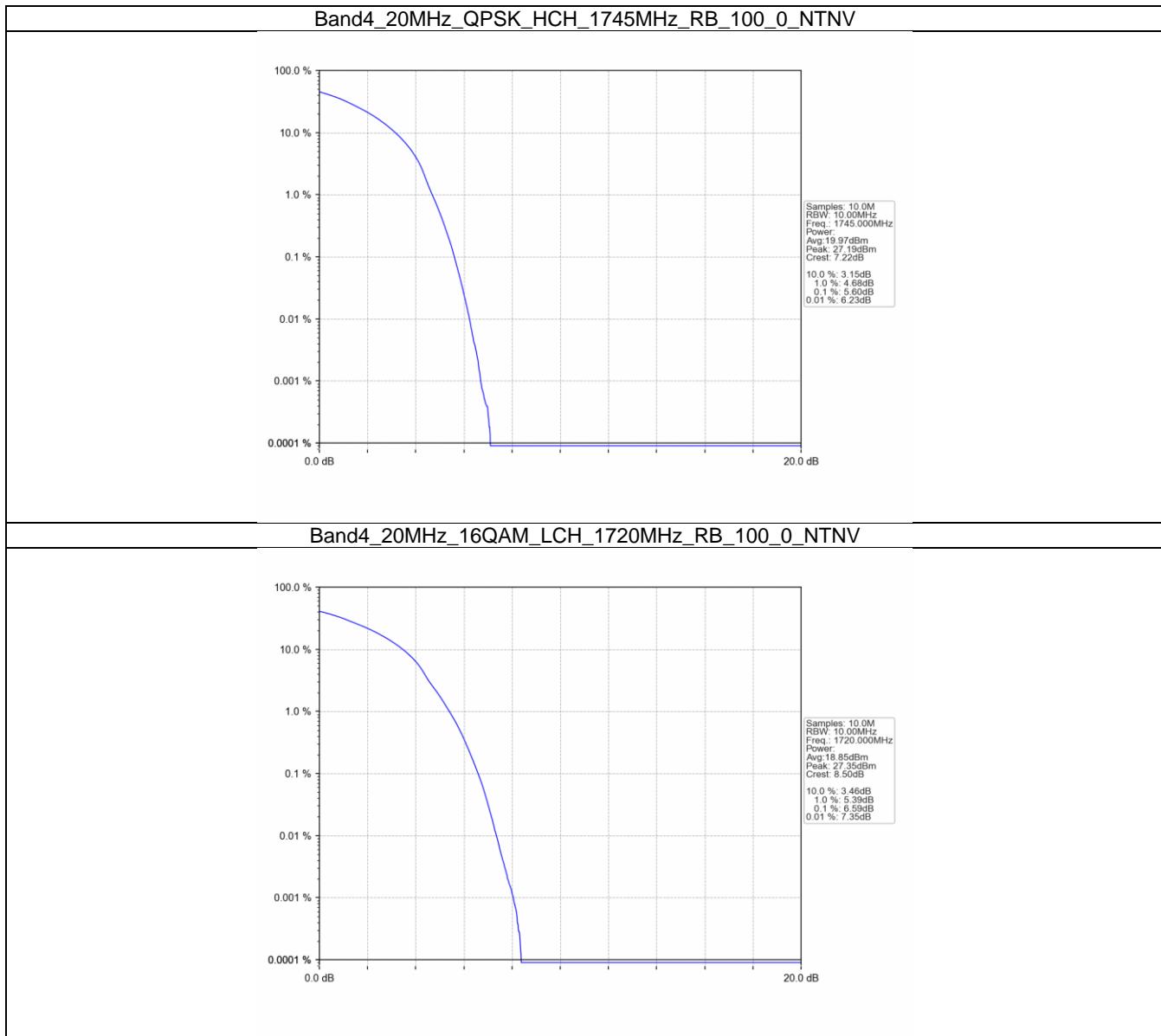


Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV

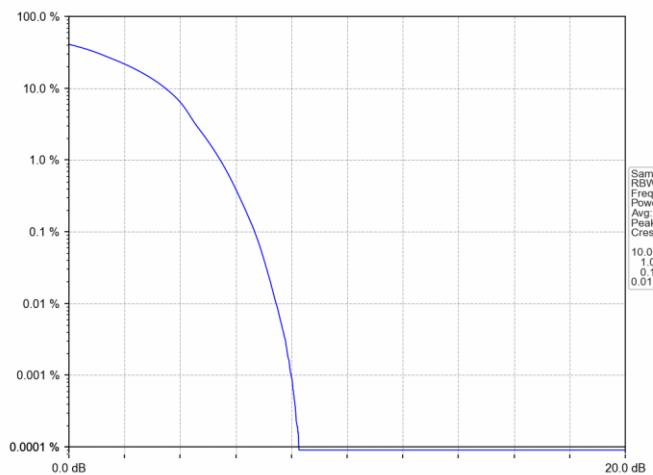


5.2.6 B4_20MHz

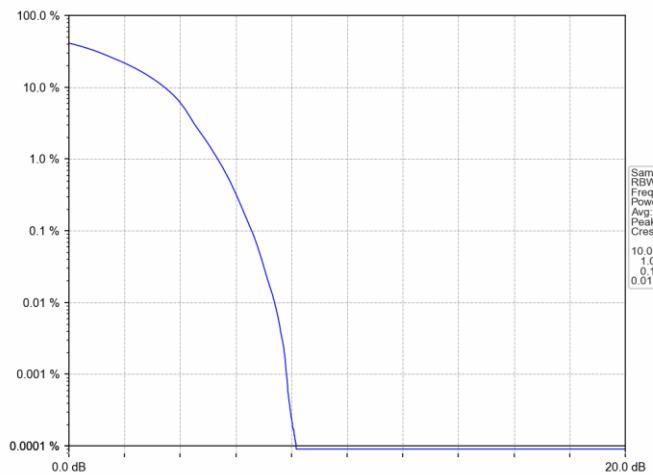




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B4_1.4MHz

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
			0	Refer To Test Graph		Pass
	1754.3	1	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
			0	Refer To Test Graph		Pass
	1754.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B4_3MHz

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
			0	Refer To Test Graph		Pass
	1753.5	1	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
			0	Refer To Test Graph		Pass
	1753.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B4_5MHz

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
			0	Refer To Test Graph		Pass
	1752.5	1	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	Refer To Test Graph	Pass	

6.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTV							
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		
		1	0	Refer To Test Graph	Pass		
	1750		49	Refer To Test Graph	Pass		
			50	Refer To Test Graph	Pass		
16QAM	1715	1	0	Refer To Test Graph	Pass		
		50	0	Refer To Test Graph	Pass		
	1732.5	1	0	Refer To Test Graph	Pass		
		1	0	Refer To Test Graph	Pass		
	1750		49	Refer To Test Graph	Pass		
			50	Refer To Test Graph	Pass		

6.1.5 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		
		1	0	Refer To Test Graph	Pass		
	1747.5		74	Refer To Test Graph	Pass		
			75	Refer To Test Graph	Pass		
16QAM	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		
		1	0	Refer To Test Graph	Pass		
	1747.5		74	Refer To Test Graph	Pass		
			75	Refer To Test Graph	Pass		

6.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTV							
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		
		1	0	Refer To Test Graph	Pass		
	1745		99	Refer To Test Graph	Pass		
			100	Refer To Test Graph	Pass		
16QAM	1720	1	0	Refer To Test Graph	Pass		
		100	0	Refer To Test Graph	Pass		
	1732.5	1	0	Refer To Test Graph	Pass		
		1	0	Refer To Test Graph	Pass		
	1745		99	Refer To Test Graph	Pass		
			100	Refer To Test Graph	Pass		

		100	0	Refer To Test Graph	Pass
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6.2 Test Graph

6.2.1 B4_1.4MHz

