

# 4. Peak-Average Ratio

## 4.1 Test Result

# 4.1.1 B66\_1.4MHz

		Band	d: 66 / Bandwidth:	1.4MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Manaliat
	(MHz)	Size	Offset	Result	Limit	Verdict
	1710.7	6	0	5.97	<=13	Pass
QPSK	1745	6	0	5.97	<=13	Pass
	1779.3	6	0	5.81	<=13	Pass
	1710.7	6	0	6.70	<=13	Pass
16QAM	1745	6	0	6.71	<=13	Pass
	1779.3	6	0	6.55	<=13	Pass
	1710.7	6	0	6.73	<=13	Pass
64QAM	1745	6	0	6.75	<=13	Pass
	1779.3	6	0	6.69	<=13	Pass
256QAM	1710.7	6	0	7.02	<=13	Pass
	1745	6	0	6.99	<=13	Pass
	1779.3	6	0	6.96	<=13	Pass

## 4.1.2 B66\_3MHz

		Ban	d: 66 / Bandwidt	h: 3MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		\/ a reli at
	(MHz)	Size	Offset	Result	Limit	Verdict
	1711.5	15	0	5.83	<=13	Pass
QPSK	1745	15	0	5.91	<=13	Pass
	1778.5	15	0	5.81	<=13	Pass
	1711.5	15	0	6.67	<=13	Pass
16QAM	1745	15	0	6.66	<=13	Pass
	1778.5	15	0	6.57	<=13	Pass
	1711.5	15	0	6.70	<=13	Pass
64QAM	1745	15	0	6.70	<=13	Pass
	1778.5	15	0	6.64	<=13	Pass
	1711.5	15	0	6.85	<=13	Pass
256QAM	1745	15	0	6.84	<=13	Pass
	1778.5	15	0	6.80	<=13	Pass

## 4.1.3 B66\_5MHz

		Ban	d: 66 / Bandwidth	: 5MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		\/a raliat
	(MHz)	Size	Offset	Result	Limit	Verdict
	1712.5	25	0	5.77	<=13	Pass
QPSK	1745	25	0	5.86	<=13	Pass
	1777.5	25	0	5.79	<=13	Pass
	1712.5	25	0	6.47	<=13	Pass
16QAM	1745	25	0	6.47	<=13	Pass
	1777.5	25	0	6.44	<=13	Pass
	1712.5	25	0	6.65	<=13	Pass
64QAM	1745	25	0	6.68	<=13	Pass
	1777.5	25	0	6.64	<=13	Pass
	1712.5	25	0	6.78	<=13	Pass
256QAM	1745	25	0	6.77	<=13	Pass
	1777.5	25	0	6.73	<=13	Pass

## 4.1.4 B66\_10MHz

		Band	d: 66 / Bandwidth:	10MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Mandiat
	(MHz)	Size	Offset	Result	Limit	Verdict
	1715	50	0	5.86	<=13	Pass
QPSK	1745	50	0	5.83	<=13	Pass
	1775	50	0	5.84	<=13	Pass
16QAM	1715	50	0	6.42	<=13	Pass
	1745	50	0	6.46	<=13	Pass
	1775	50	0	6.43	<=13	Pass
	1715	50	0	6.62	<=13	Pass
64QAM	1745	50	0	6.63	<=13	Pass
	1775	50	0	6.60	<=13	Pass
	1715	50	0	6.76	<=13	Pass
256QAM	1745	50	0	6.74	<=13	Pass
	1775	50	0	6.71	<=13	Pass

## 4.1.5 B66\_15MHz

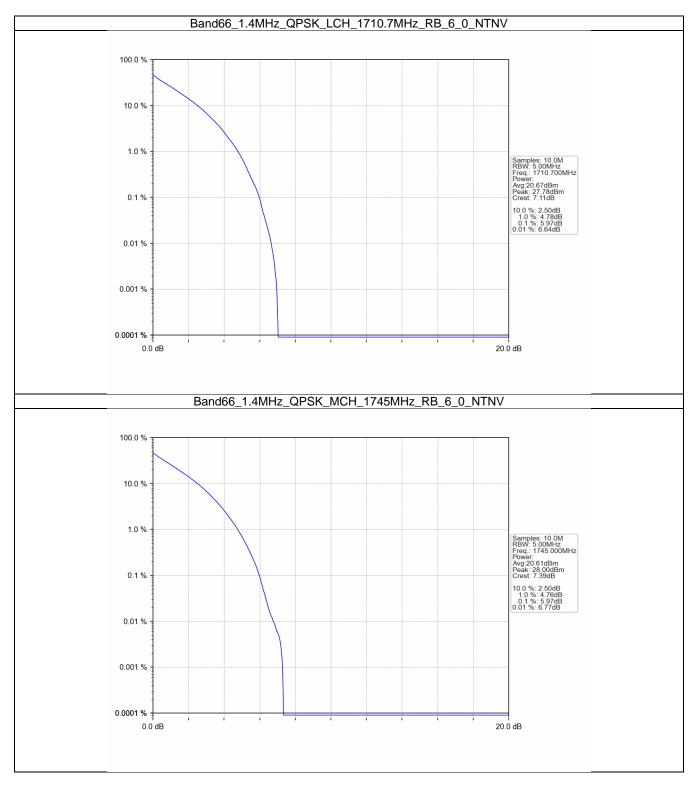
		Band	d: 66 / Bandwidth	: 15MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Manalist
	(MHz)	Size	Offset	Result	Limit	Verdict
	1717.5	75	0	5.65	<=13	Pass
QPSK	1745	75	0	5.81	<=13	Pass
	1772.5	75	0	5.80	<=13	Pass
	1717.5	75	0	6.33	<=13	Pass
16QAM	1745	75	0	6.39	<=13	Pass
	1772.5	75	0	6.41	<=13	Pass
	1717.5	75	0	6.63	<=13	Pass
64QAM	1745	75	0	6.65	<=13	Pass
	1772.5	75	0	6.67	<=13	Pass
256QAM	1717.5	75	0	6.81	<=13	Pass
	1745	75	0	6.81	<=13	Pass
	1772.5	75	0	6.80	<=13	Pass

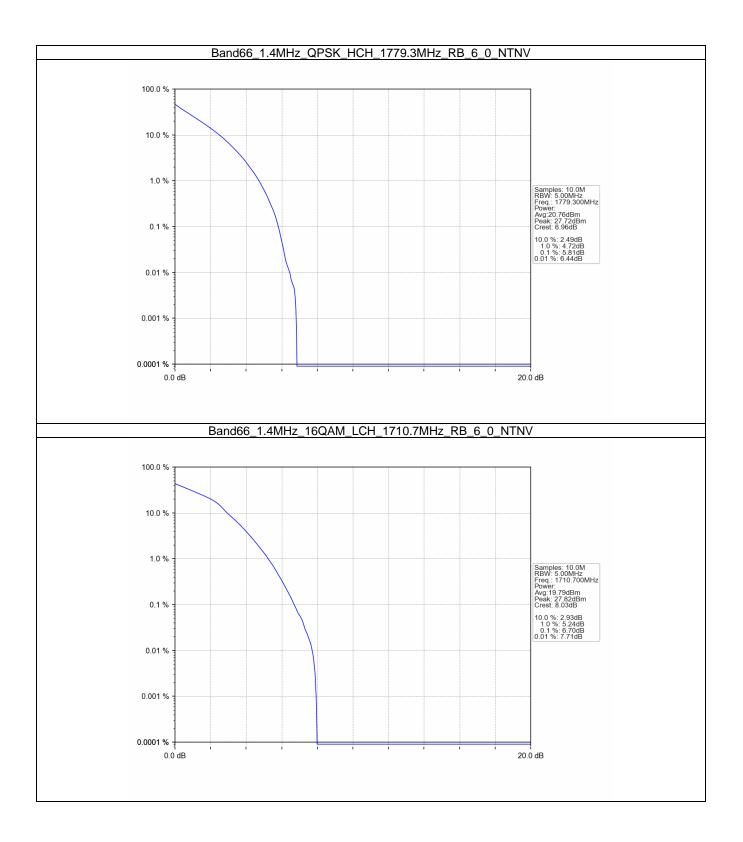
## 4.1.6 B66\_20MHz

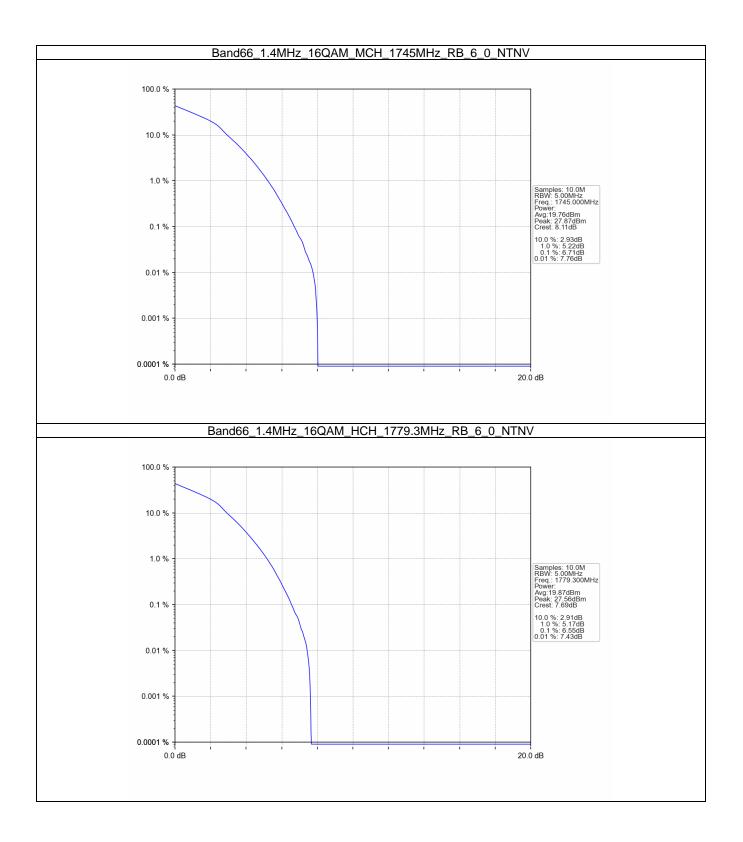
		Band	d: 66 / Bandwidth	: 20MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Verdict
Modulation	(MHz)	Size	Offset	Result	Limit	verdici
	1720	100	0	5.62	<=13	Pass
QPSK	1745	100	0	5.69	<=13	Pass
	1770	100	0	5.74	<=13	Pass
	1720	100	0	6.38	<=13	Pass
16QAM	1745	100	0	6.40	<=13	Pass
	1770	100	0	6.45	<=13	Pass
	1720	100	0	6.57	<=13	Pass
64QAM	1745	100	0	6.61	<=13	Pass
	1770	100	0	6.65	<=13	Pass
	1720	100	0	6.76	<=13	Pass
256QAM	1745	100	0	6.79	<=13	Pass
	1770	100	0	6.78	<=13	Pass

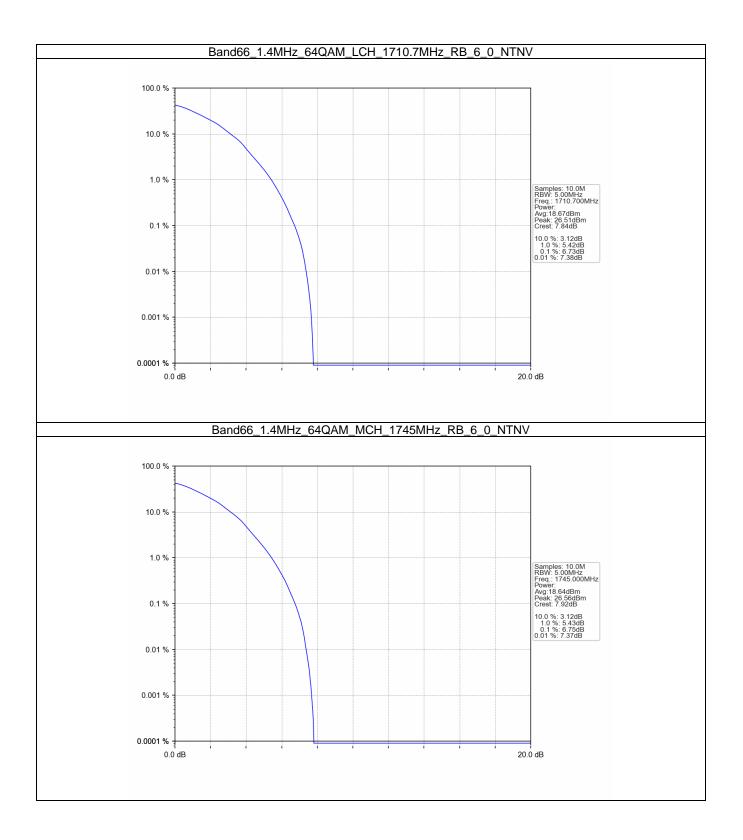
# 4.2 Test Graph

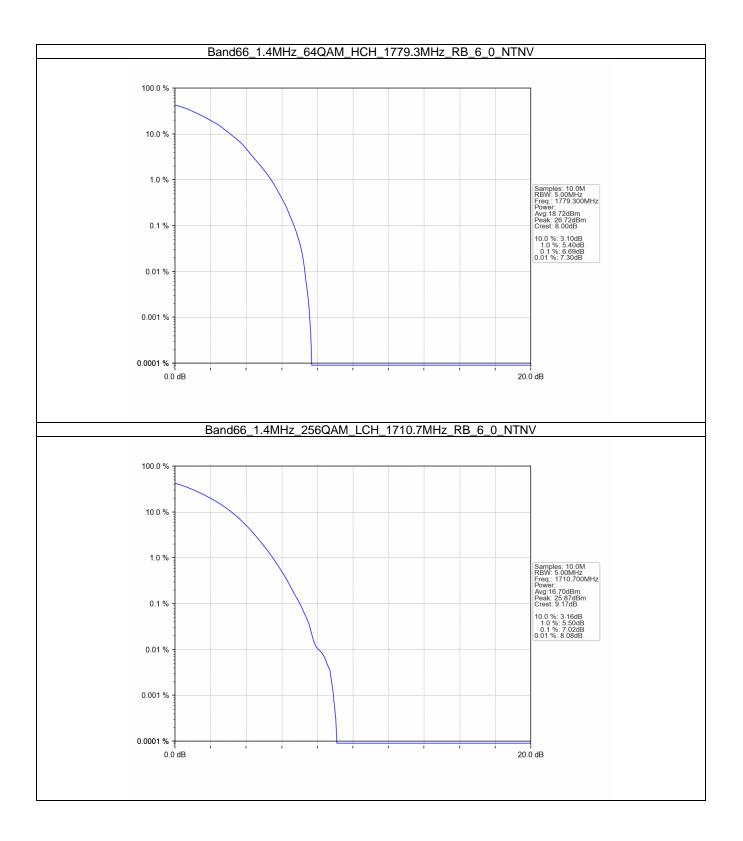
## 4.2.1 B66\_1.4MHz

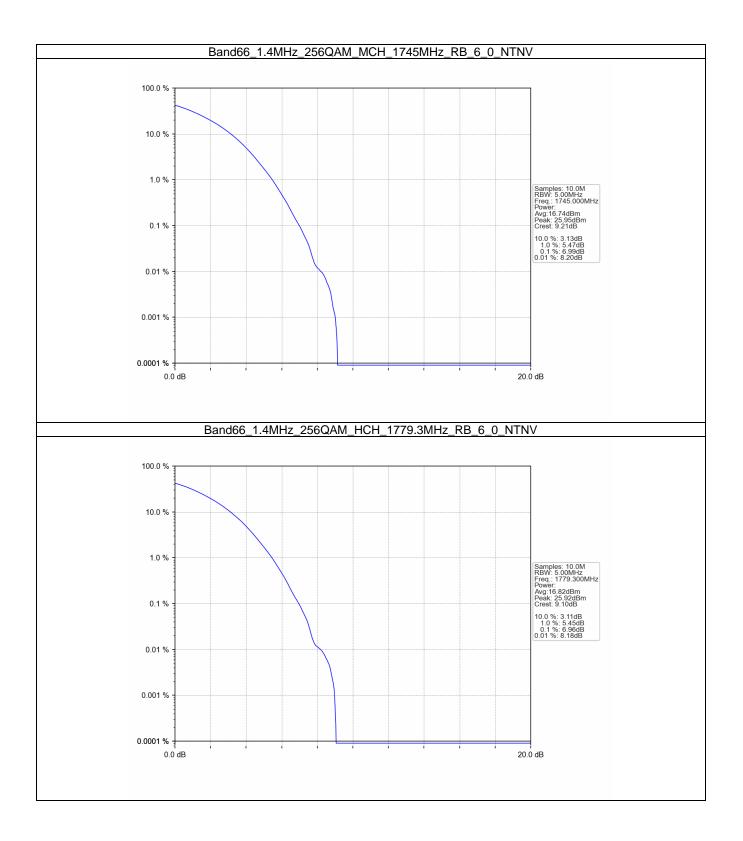




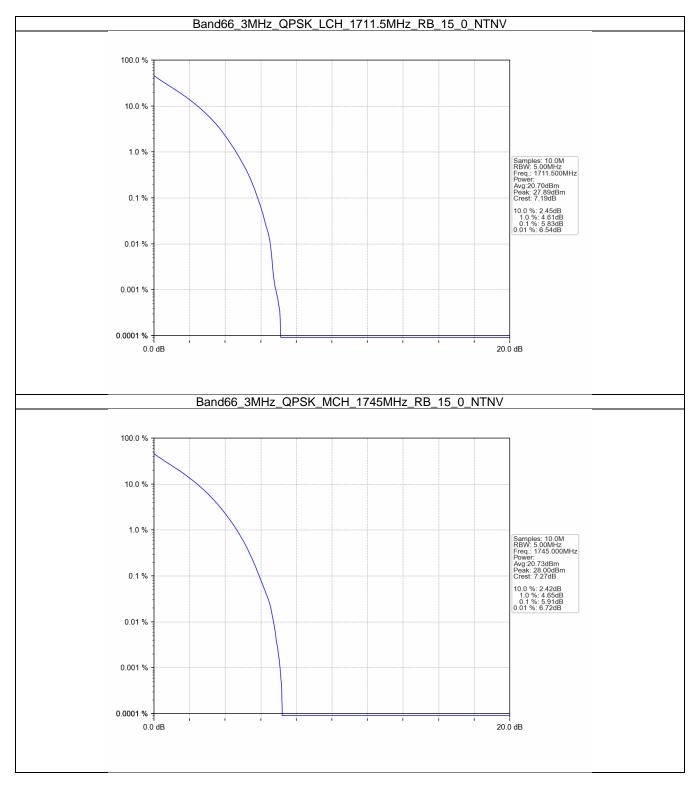


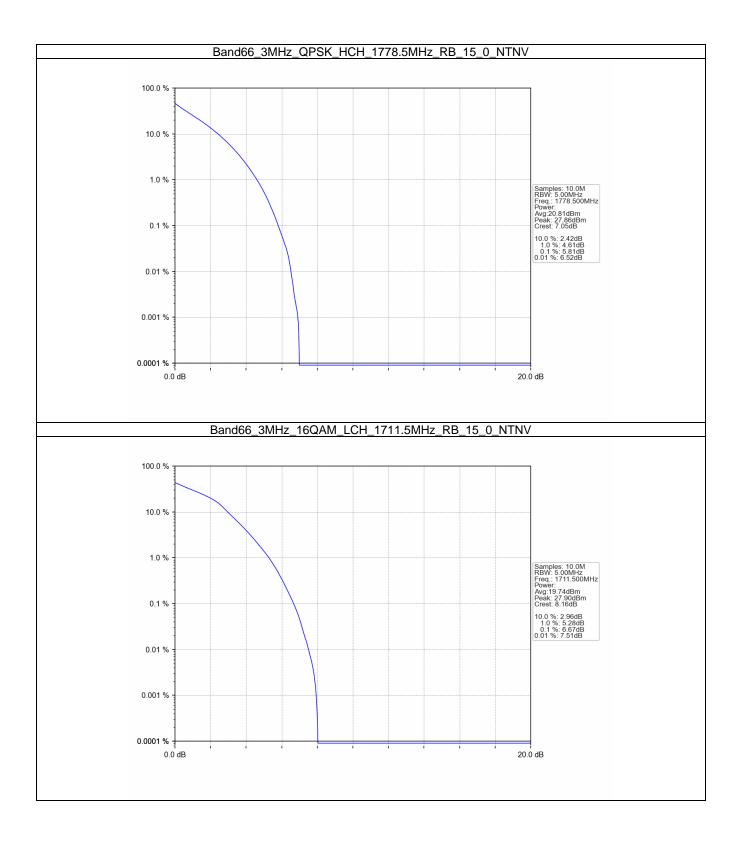


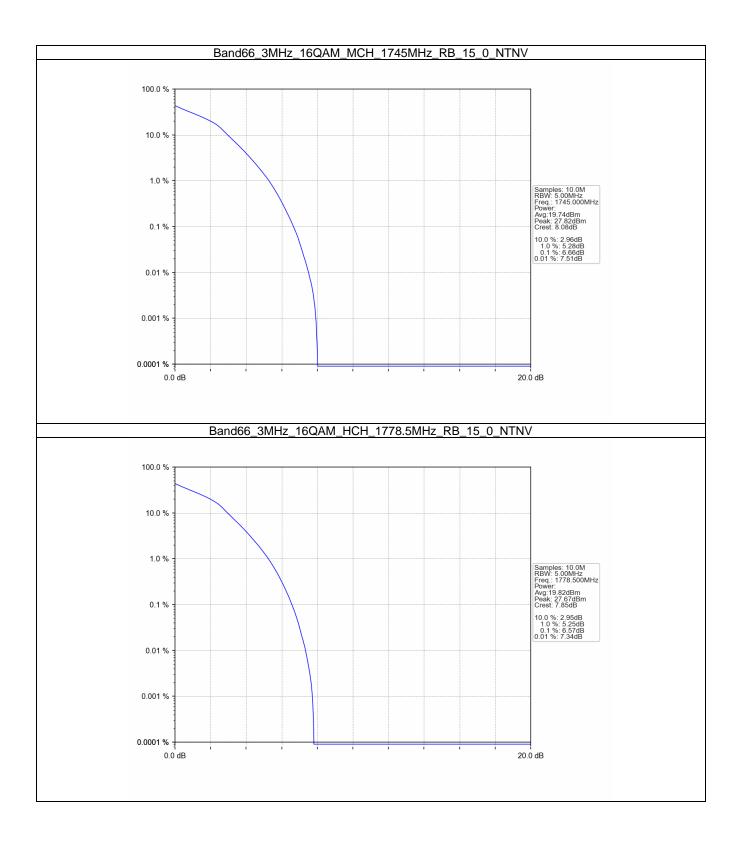


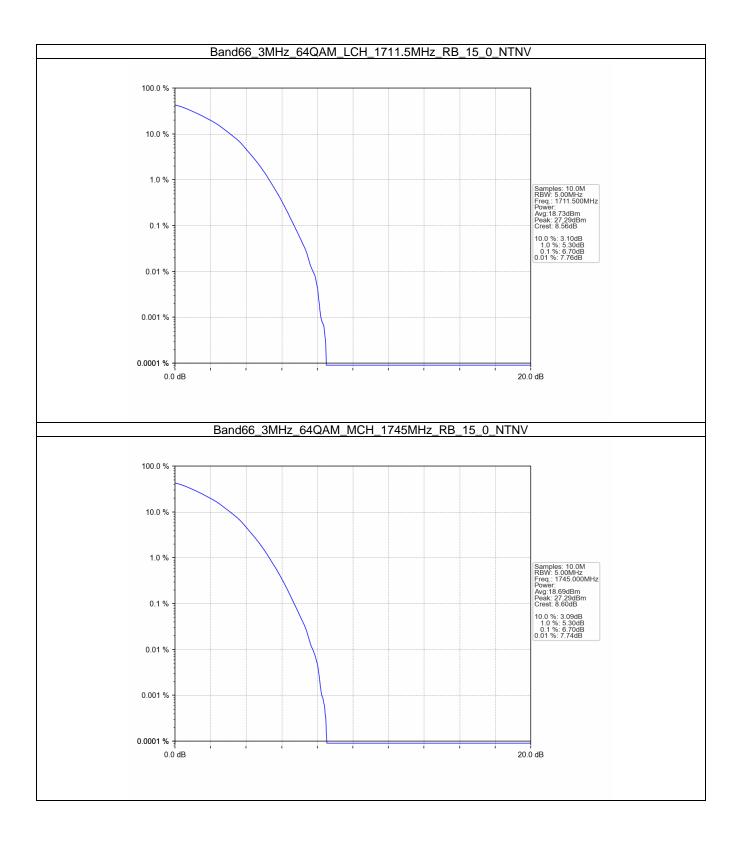


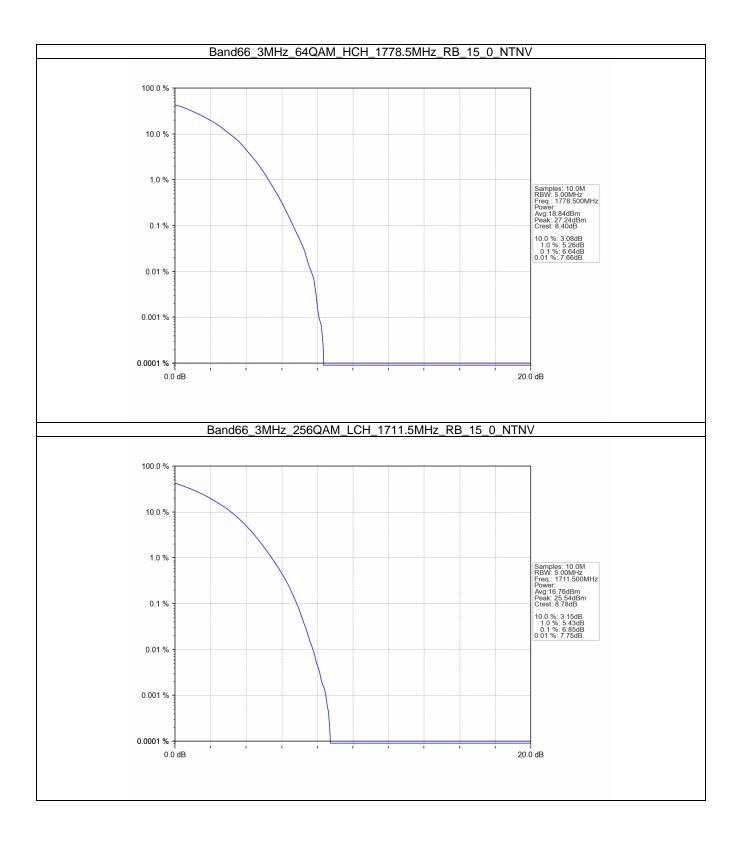
#### 4.2.2 B66\_3MHz

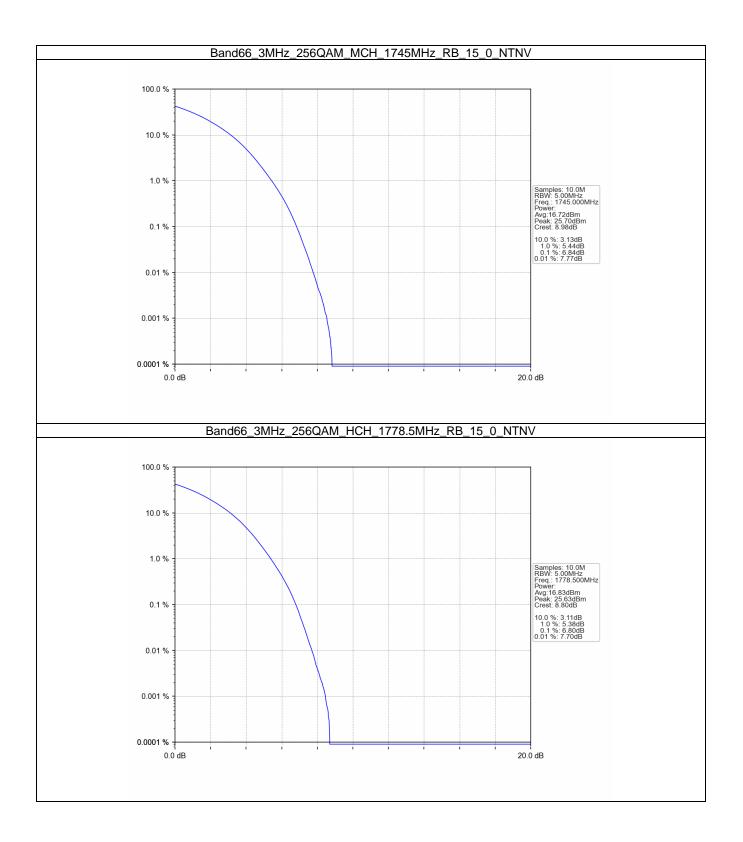




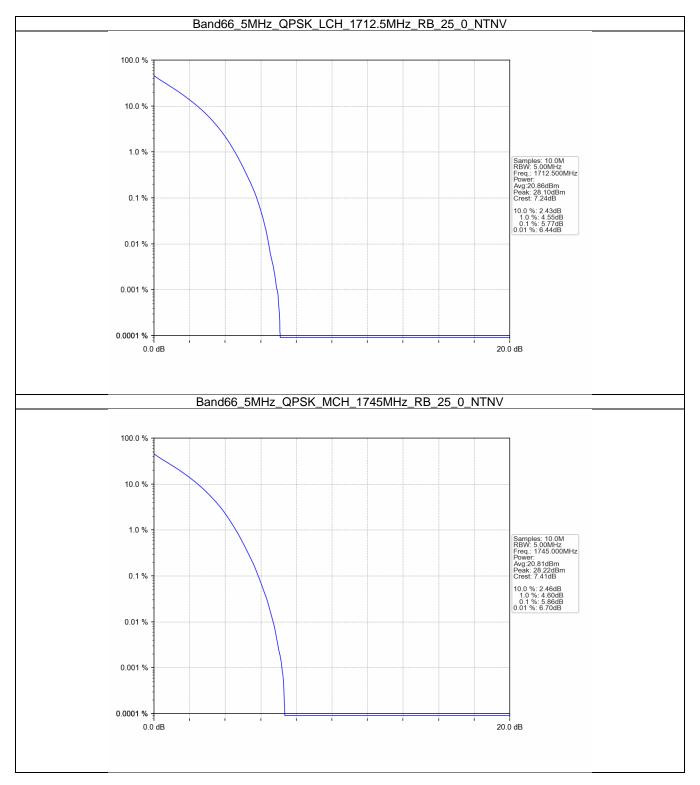


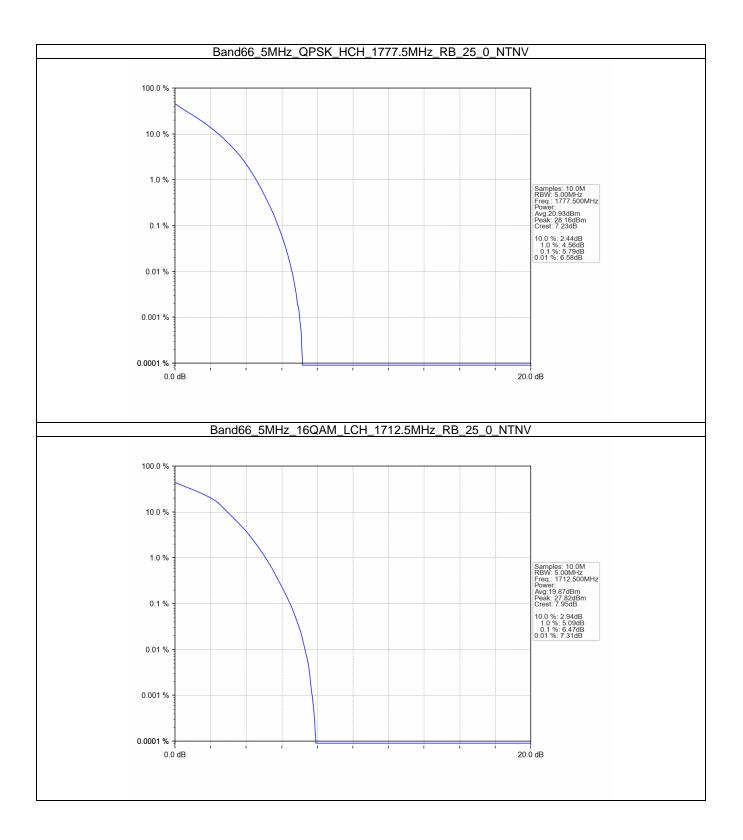


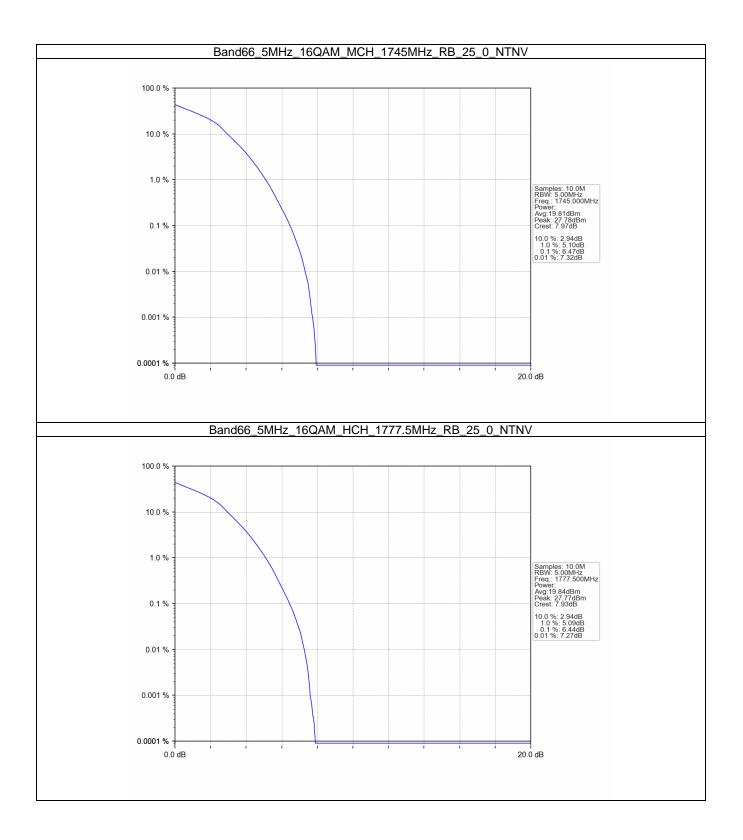


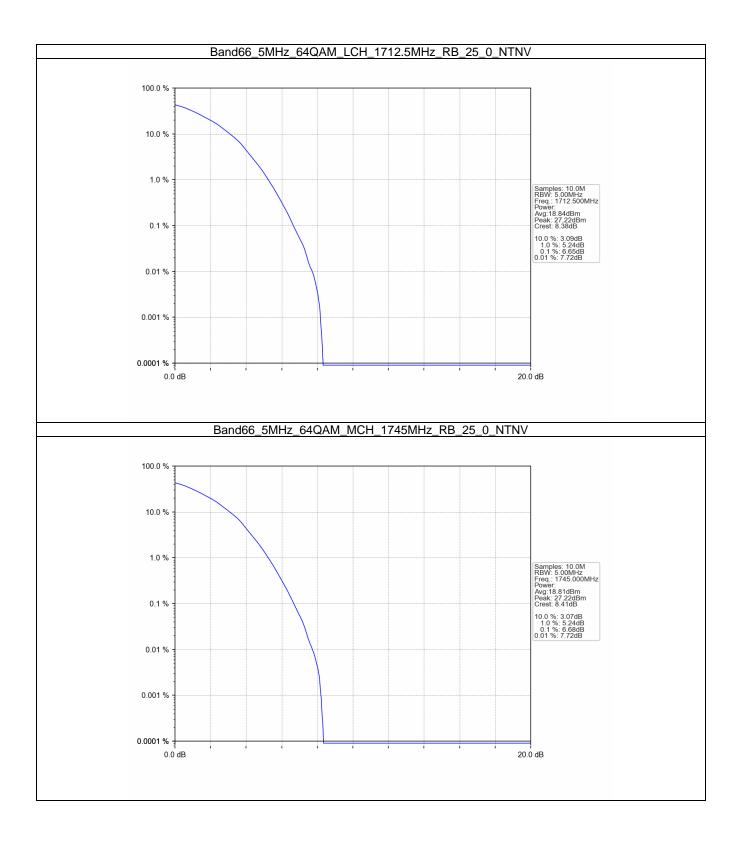


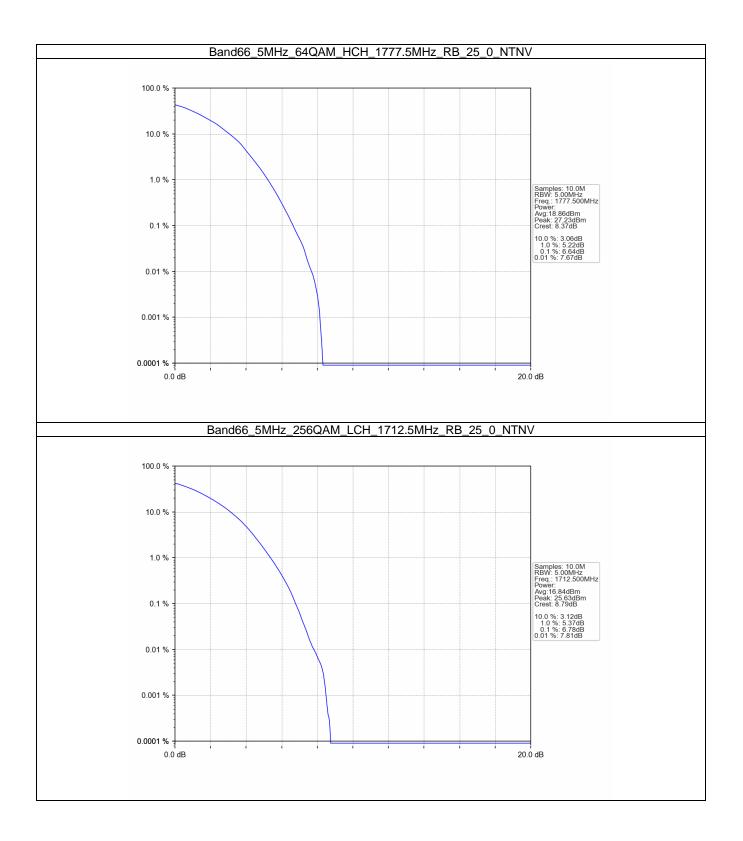
#### 4.2.3 B66\_5MHz

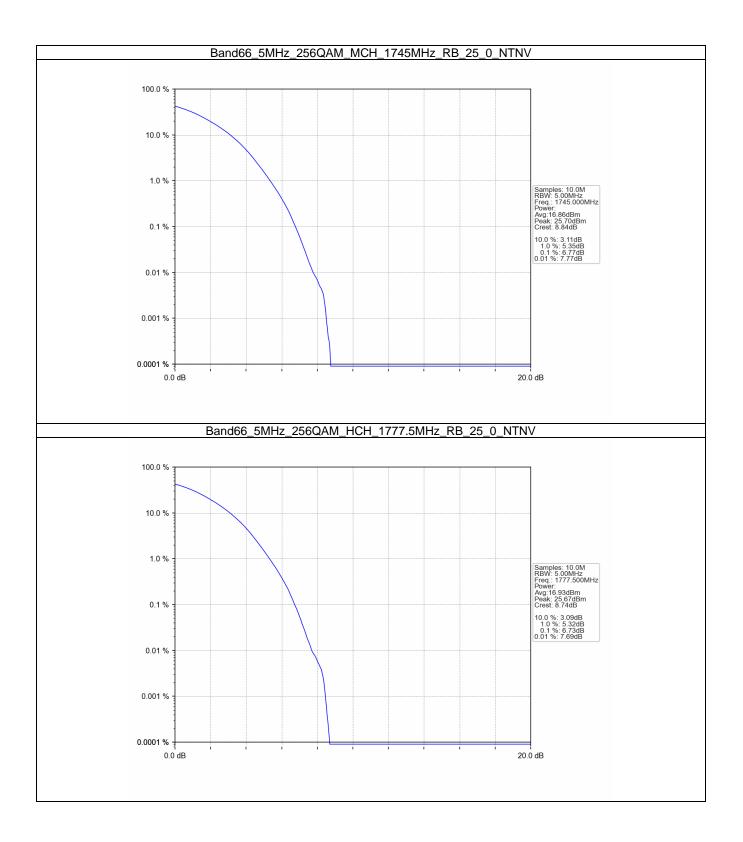




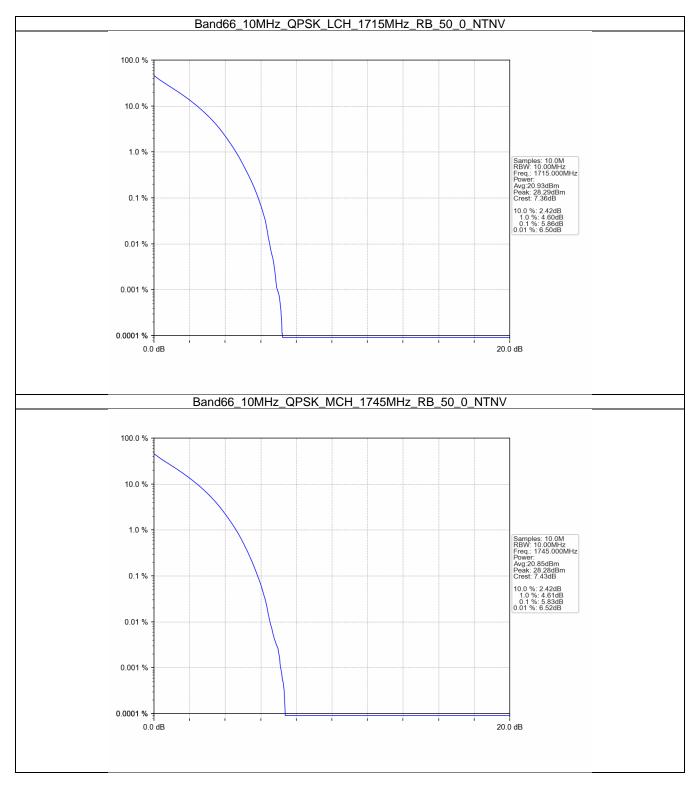


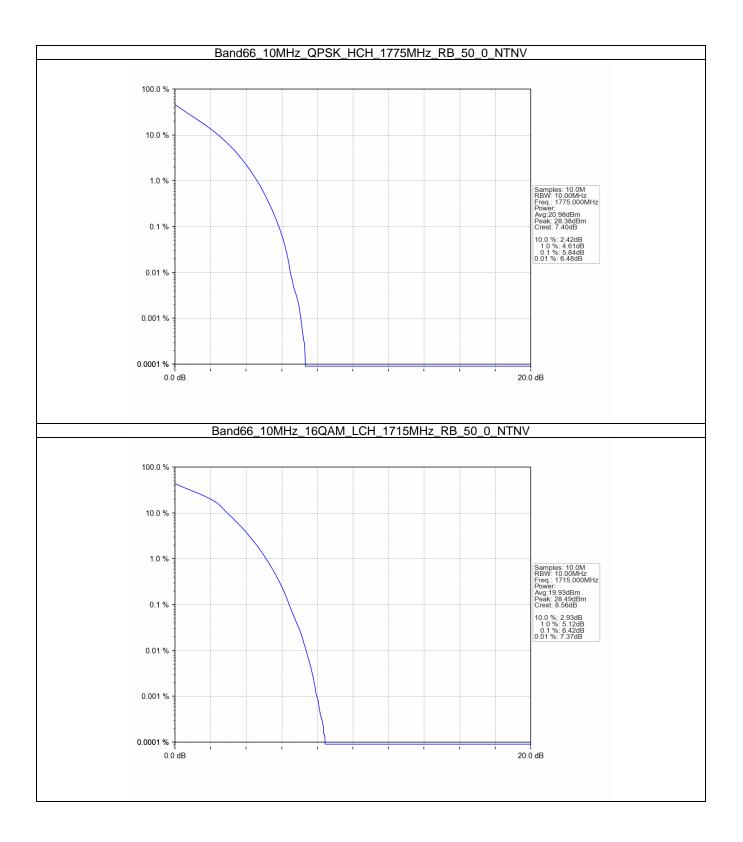


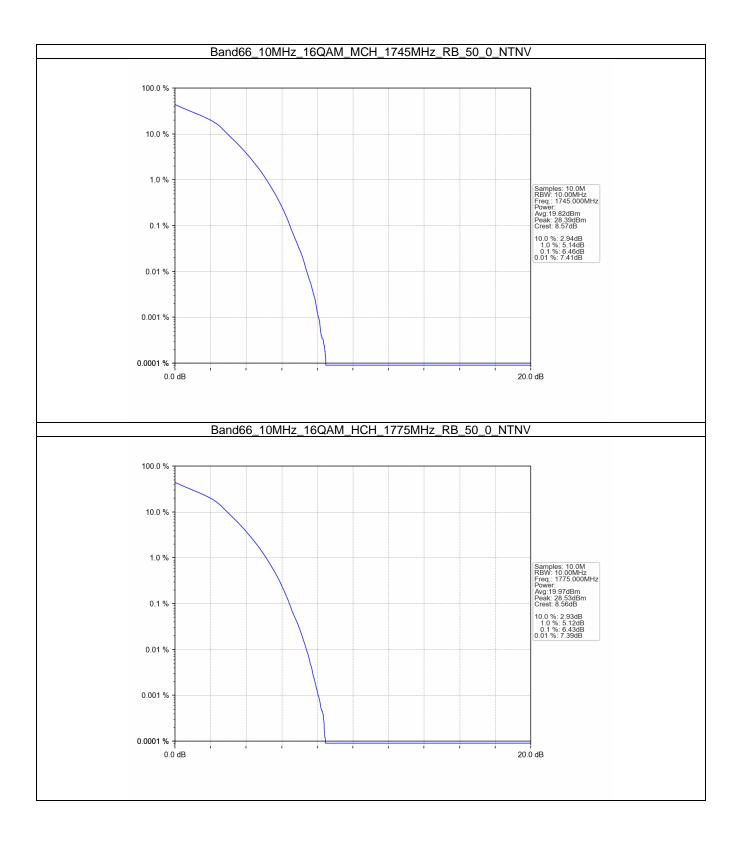


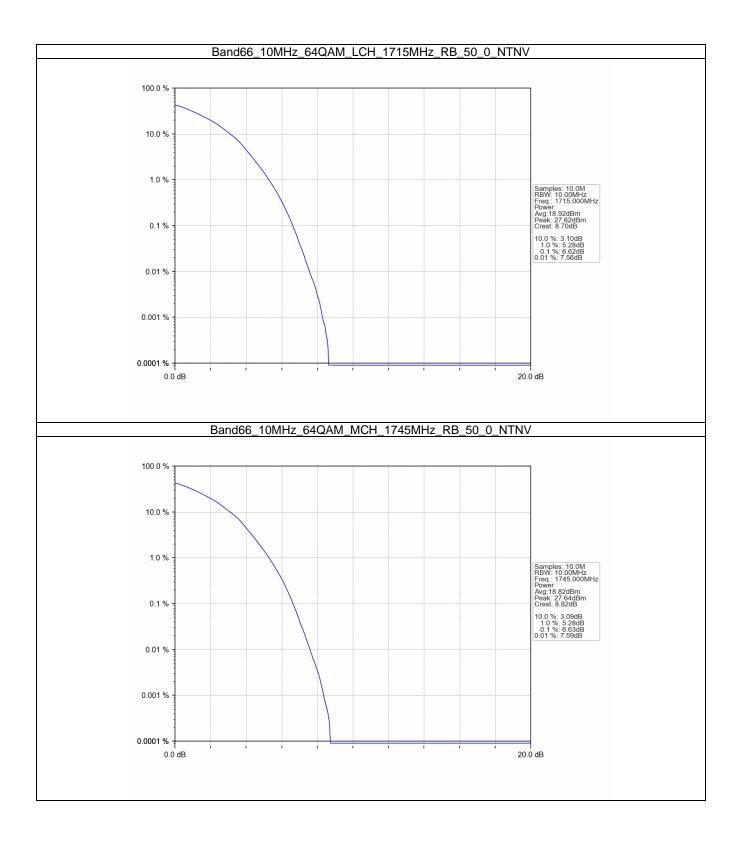


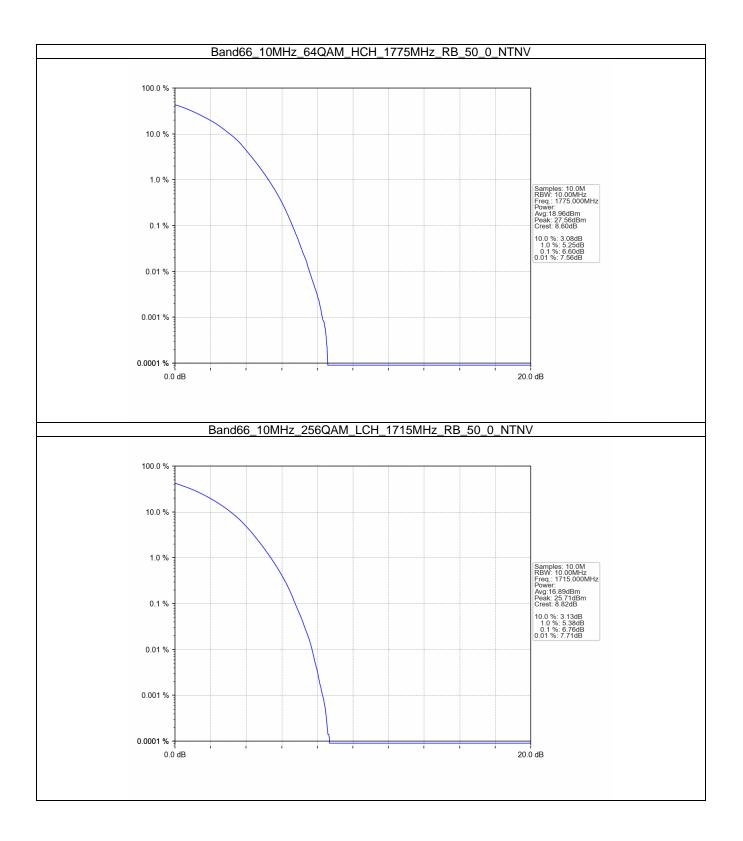
#### 4.2.4 B66\_10MHz

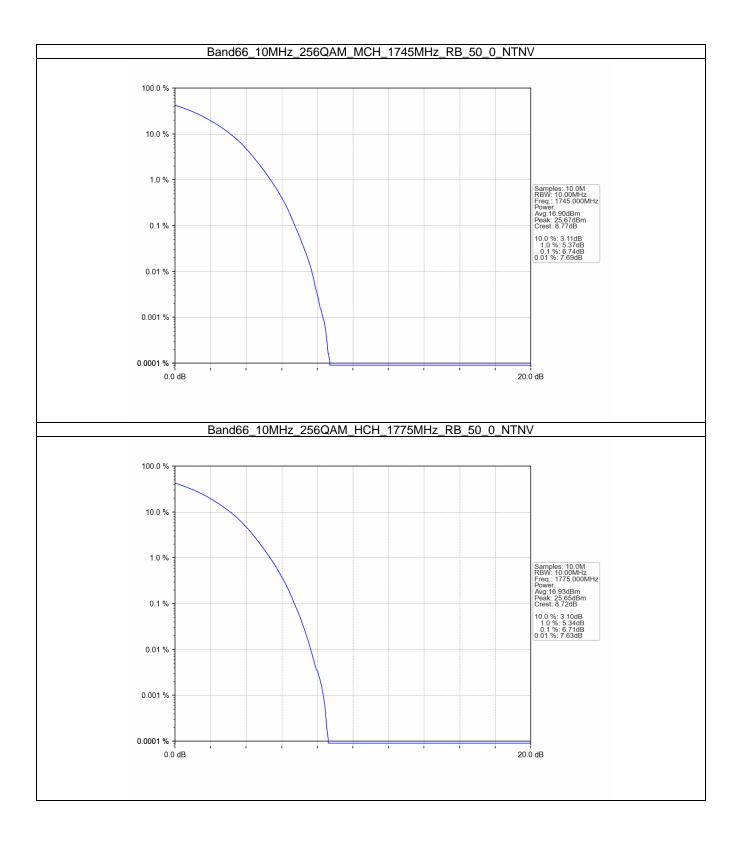




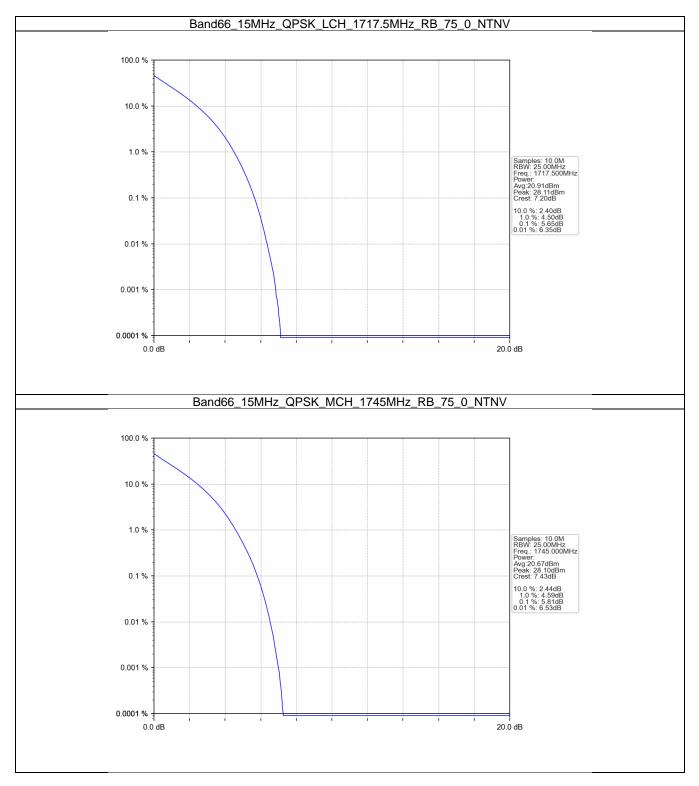


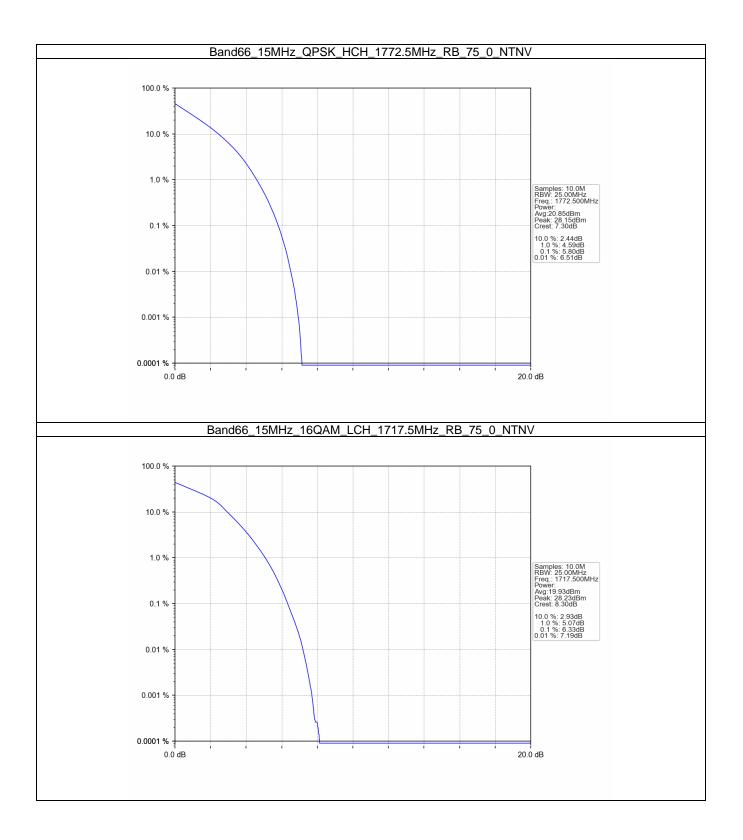


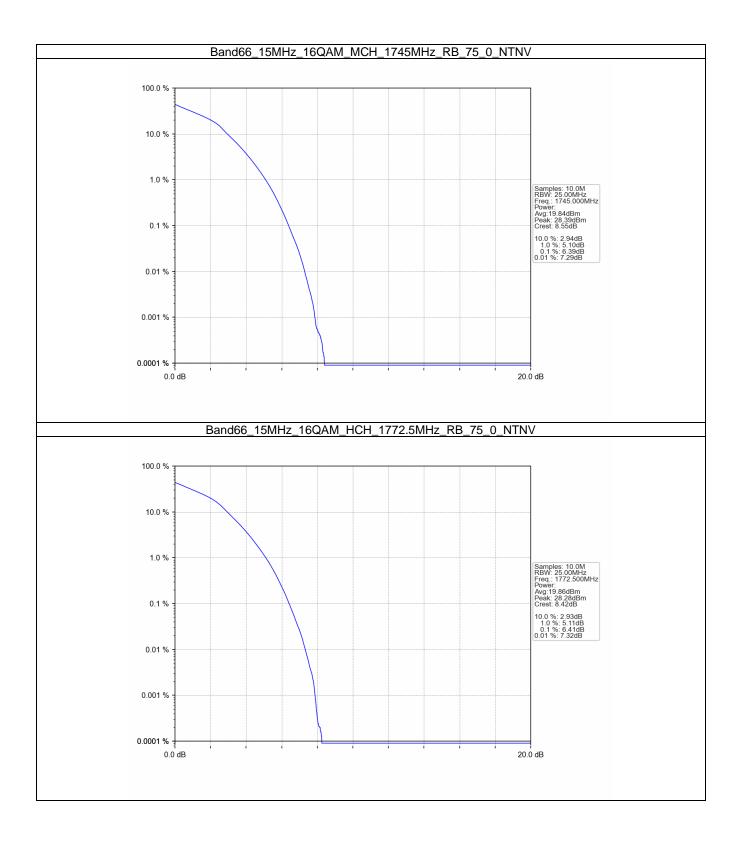


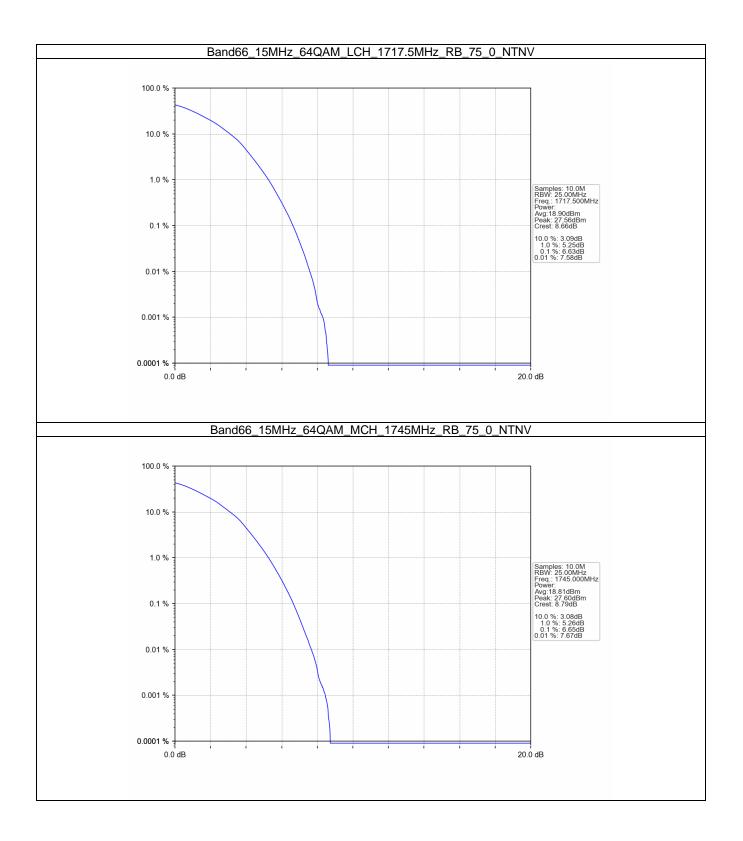


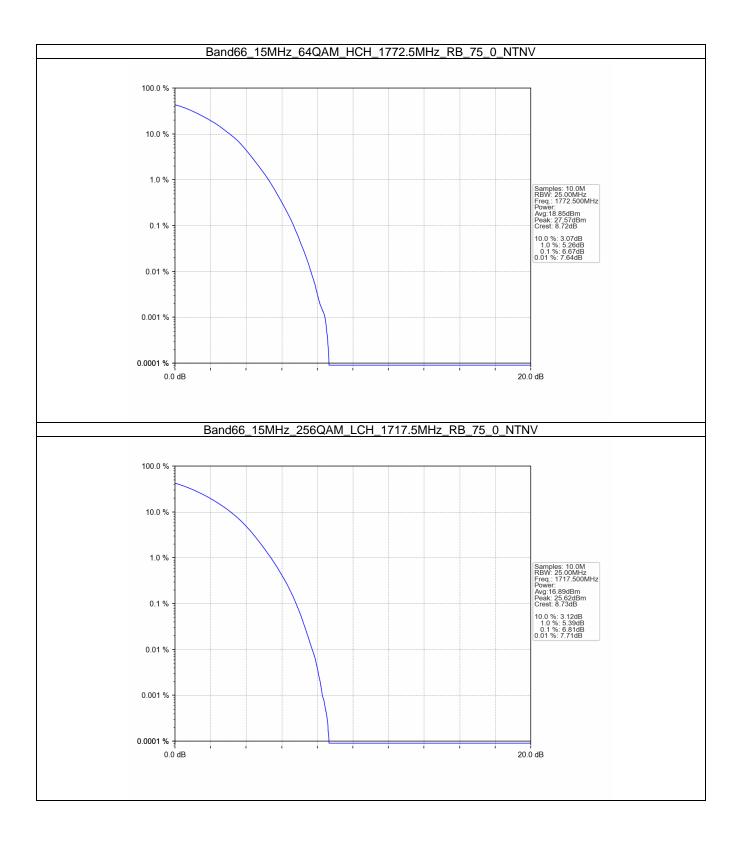
#### 4.2.5 B66\_15MHz

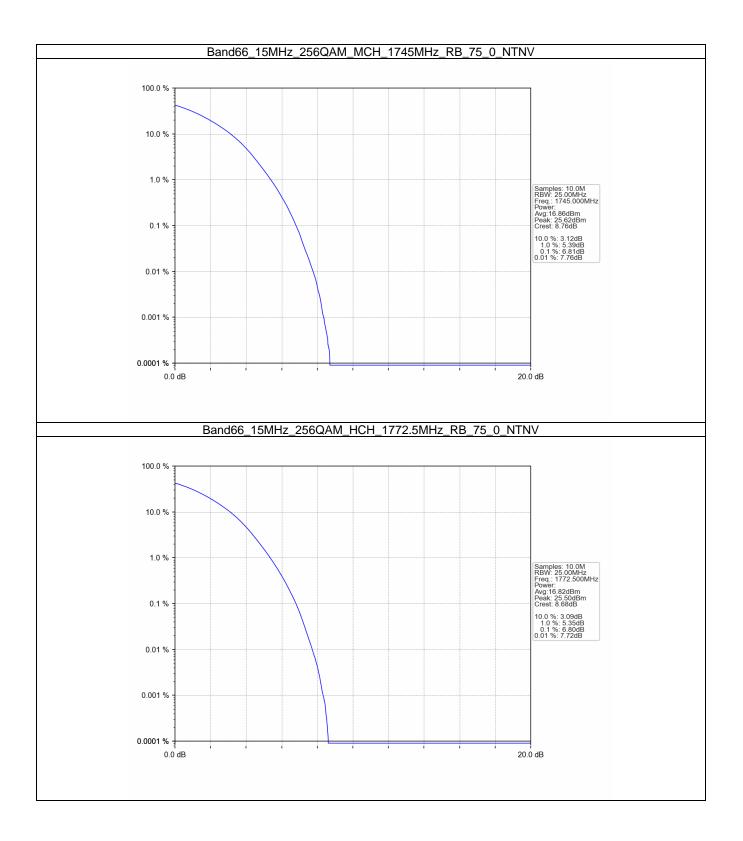




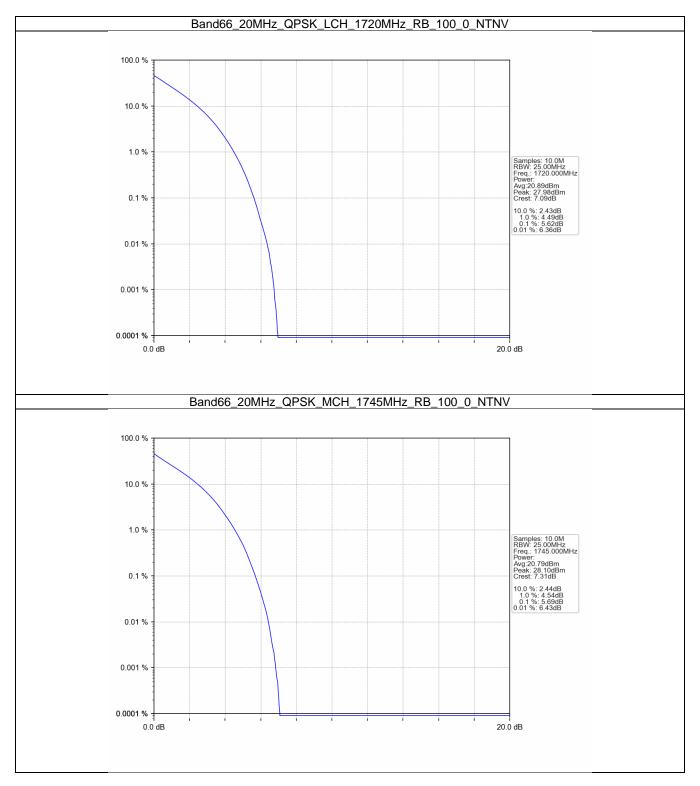


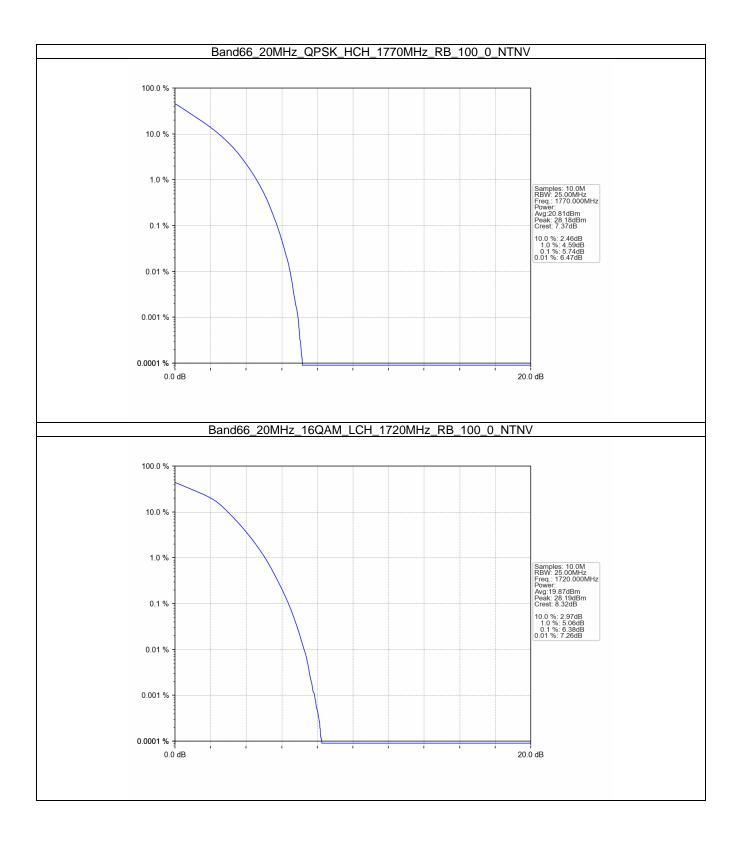


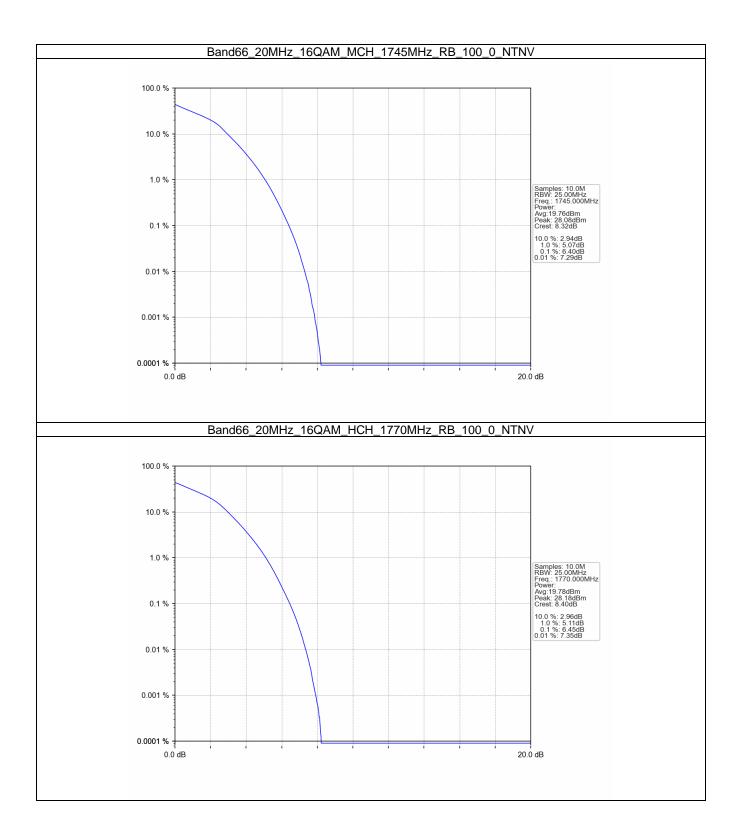


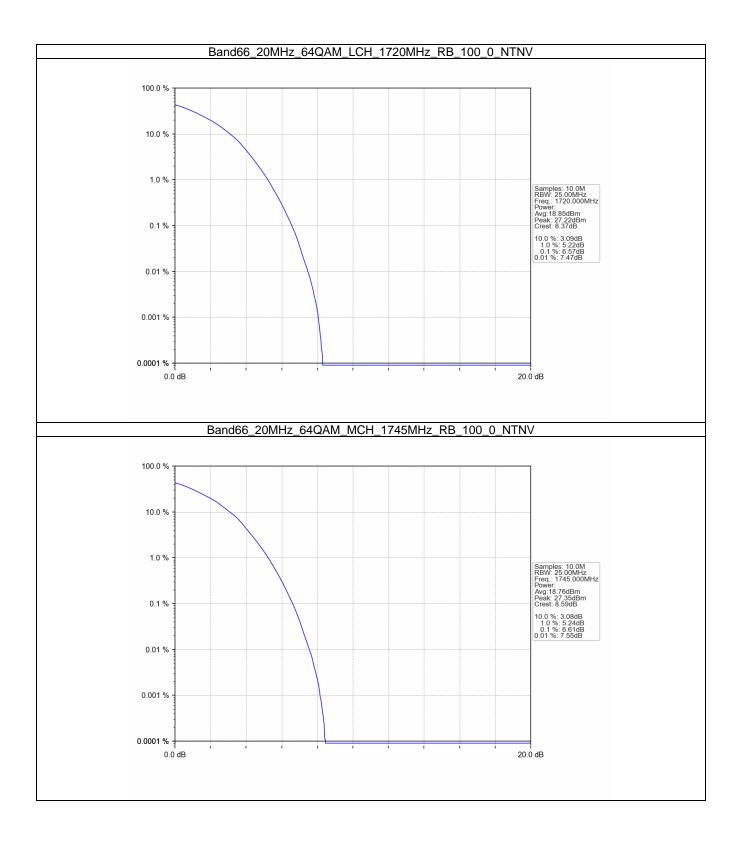


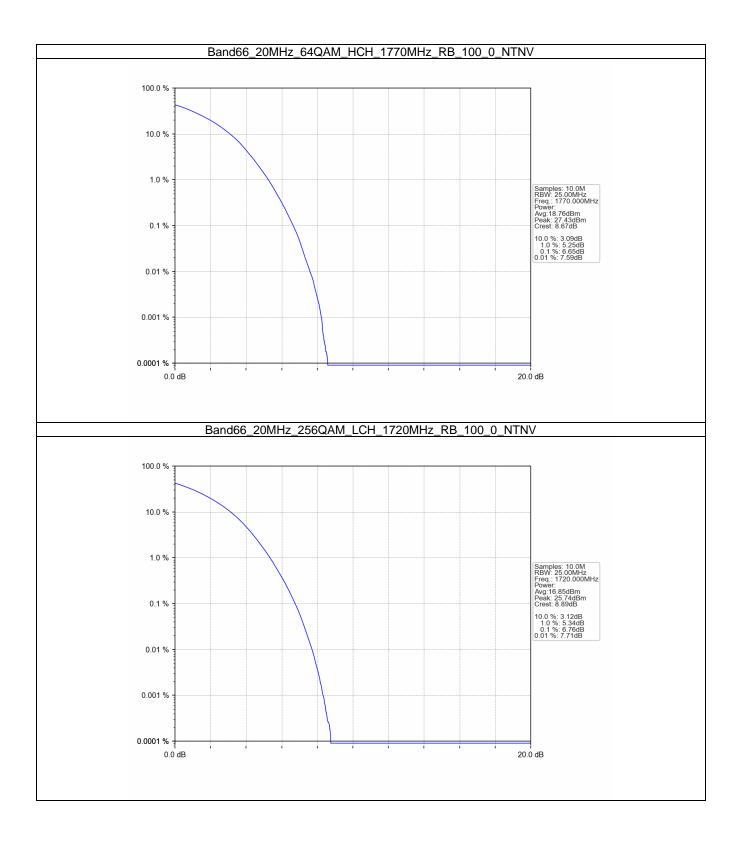
#### 4.2.6 B66\_20MHz

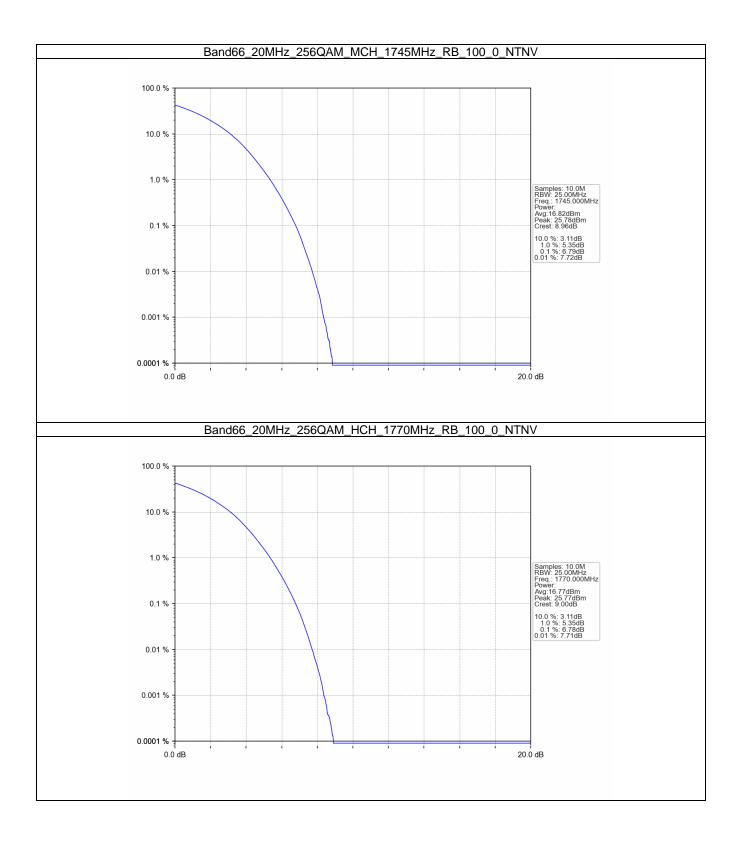












# 5. Spurious Emission

#### 5.1 Test Result

# 5.1.1 B66\_1.4MHz

		Ba	nd: 66 / Bandwidth:	1.4MHz / NTNV		
Modulation	Frequency	RB All	ocation	Spurious Emission		Vardiat
nouulation	(MHz)	Size	Offset	Result	Limit	Verdict
	4740 7	1	0	Refer To Test Graph		Pass
	1710.7	6	0			Pass
	1745	1	0	Refer To Test	Graph	Pass
QPSK -		4	0	Spurious Emission   t Result Limit   Refer To Test Graph Refer To Test Graph   Refer To Test G	Pass	
	1779.3	1	RB Allocation   Spurious Emission     Size   Offset   Result   Limit     1   0   Refer To Test Graph   6     6   0   Refer To Test Graph   1     1   0   Refer To Test Graph   1     1 <td< td=""><td>Pass</td></td<>	Pass		
		6	0	Refer To Test	Spurious EmissionesultLimitRefer To Test GraphRefer To Test Graph<	Pass
	1710.7	1	0	Refer To Test	Graph	Pass
		6	0			Pass
16044	1745	1	0	OnSpurious EmissionOffsetResultLimit0Refer To Test Graph0Refer To Test Graph0 <td>Pass</td>	Pass	
16QAM —	1779.3	9.3 1	0	Refer To Test	Graph	Pass
			5	Refer To Test	Graph	Pass
		6	0	Refer To Test	rious Emission Limit To Test Graph To Test Graph	Pass
	1710 7	1	0	Refer To Test	Graph	Pass
	1710.7	6	0	Refer To Test	Graph	Pass
64QAM	1745	1	0	Refer To Test	Graph	Pass
64QAIVI		4	0	Refer To Test	Graph	Pass
	1779.3	I	5	Refer To Test Graph		Pass
		6	0	Refer To Test	Spurious EmissionResultLimitRefer To Test GraphRefer To Test Graph	Pass
	1710 7	1	0	Refer To Test	Graph	Pass
	1710.7	6	0			Pass
	1745	1	0	Refer To Test	Graph	Pass
256QAM	1710.7   6   0   Refer To Test Graph     1745   1   0   Refer To Test Graph     1779.3   1   5   Refer To Test Graph     6   0   Refer To Test Graph     779.3   1   0   Refer To Test Graph     1710.7   6   0   Refer To Test Graph     1779.3   1   0   Refer To Test Graph     1770.7   1   0   Refer To Test Graph     1779.3   1   0   Refer To Test Graph <t< td=""><td>Graph</td><td>Pass</td></t<>	Graph	Pass			
	1779.3	1	5			Pass
	F	6	0	Refer To Test	Graph	Pass

# 5.1.2 B66\_3MHz

		Ba	and: 66 / Bandwidth	n: 3MHz / NTNV			
Modulation	Frequency	RB Allocation		Spurious Emission		Verdict	
violulation	(MHz)	Size	Offset	Result Limit		veruici	
	1711.5	1	0	Refer To Test	Graph	Pass	
	1711.5	15	0	Refer To Test	Graph	Pass	
QPSK -	1745	1	0	Refer To Test	Graph	Pass	
QPSK		4	0Refer To Test Graph0Refer To Test Graph0Refer To Test Graph14Refer To Test Graph0Refer To Test Graph	Pass			
	1778.5	I	14	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass	
	1711.5	1	0	Refer To Test	Graph	Pass	
		15	0	Refer To Test Graph		Pass	
10000	1745	1	0	Refer To Test	Graph	Pass	
16QAM		4	0	Refer To Test	Graph	Pass	
	1778.5	1	14	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass	
		1711.5 1		0	Refer To Test Graph		Pass
64QAM	G.1171	15	0	Refer To Test	Graph	Pass	
	1745	1	0	Refer To Test	Graph	Pass	

		1	0	Refer To Test Graph	Pass
	1778.5	I	14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1711.5	1	0	Refer To Test Graph	Pass
	1711.5	15	0	Refer To Test Graph	Pass
256QAM	1745	1	0	Refer To Test Graph	Pass
200QAIVI		4	0	Refer To Test Graph	Pass
	1778.5	I	14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass

#### 5.1.3 B66\_5MHz

		Ba	and: 66 / Bandwidth	1: 5MHz / NTNV		
Modulation	Frequency	RB AI	location	Spurious Emission		Verdict
viodulation	(MHz)	Size	Offset	Result	Limit	verdict
	1710 5	1	0	Refer To Test Graph		Pass
	1712.5	25	0			Pass
	1745	1	0	Refer To Test	Graph	Pass
QFSK		1	0	OffsetResultLimit0Refer To Test Graph0Refer To Test Graph0Refer To Test Graph0Refer To Test Graph24Refer To Test Graph0Refer To Test Graph0<	Pass	
	1777.5	I	RB AllocationSpurious EmissionSizeOffsetResultLimit10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph124Refer To Test Graph250Refer To Test Graph250Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph10Refer To Test Graph250Refer To Test Graph10Refer To Test Graph250Refer To Test Graph250Refer To Test Graph250	Pass		
		25	0	Spurious EmissionResultLimitRefer To Test GraphRefer To Test Graph	Graph	Pass
	1710 E	1	0	Refer To Test	Graph	Pass
	1/12.3	25	0			Pass
160.44	1745	1	ze   Offset   Result   Limit     1   0   Refer To Test Graph	Pass		
	1777.5		0	Refer To Test	Graph	Pass
			24	Refer To Test	Graph	Pass
		25	0	Refer To Test	Spurious EmissionResultLimitRefer To Test GraphRefer To Test Graph	Pass
	1710 5	1	0	Refer To Test	Graph	Pass
	1712.5	25	0	Refer To Test	Graph	Pass
640AM	1745	1	0	Refer To Test	Graph	Pass
		1	0	Refer To Test	Graph	Pass
	1777.5	1777.5	24	Refer To Test Graph		Pass
		25	0	0 Refer To Test Graph   4 Refer To Test Graph   0 Refer To T	Pass	
	1712.5	1	0			Pass
	1712.0	25	0			Pass
2560 AM	1745	1	0	Refer To Test	Graph	Pass
	Mutation   (MHz)   Size   Offset     1712.5   1   0   0     1745   1   0   0     1745   1   0   0     1745   1   0   0     1777.5   1   24   0     6QAM   1712.5   25   0   0     6QAM   1712.5   1   0   0     1777.5   1   24   0   0     6QAM   1745   1   0   0   0     1777.5   1   24   0   0   0   0     4QAM   1777.5   1   0<	Refer To Test Graph		Pass		
	1777.5	I	24			Pass
		25	0			Pass

#### 5.1.4 B66\_10MHz

		Ba	nd: 66 / Bandwidth:	10MHz / NTNV		
Modulation	Frequency	RB Allocation		Spurious Emission		Verdict
	(MHz)	Size	Offset	Result	Limit	verdict
	1715	1	0	Refer To Test	t Graph	Pass
	1715	50	0	Refer To Test Graph		Pass
QPSK	1745	1	0	Refer To Test Graph		Pass
QPSK	1775	1775 1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1715	1	0	Refer To Test	t Graph	Pass
		50	0	Refer To Test Graph		Pass
16QAM	1745	1 0		Refer To Test Graph		Pass
	1775	1 –	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass

		50	0	Refer To Test Graph	Pass
	1715	1	1 0 Refer To Tes		Pass
	1715	50	0	Refer To Test Graph	Pass
64QAM	1745	1	0	Refer To Test Graph	Pass
64QAIVI		4	0	Refer To Test Graph	Pass
	1775	1775	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	1715	1	0	Refer To Test Graph	Pass
	1715	50	0	Refer To Test Graph	Pass
2560 414	1745	1	0	Refer To Test Graph	Pass
256QAM		1	0	Refer To Test Graph	Pass
	1775		49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

# 5.1.5 B66\_15MHz

		Ba	and: 66 / Bandwidt	th: 15MHz / NTNV		
Madulation	Frequency	RB A	llocation	Spurious Em	ission	Verdict
Modulation	(MHz)	Size	Offset	Result	Limit	
		1	0	Refer To Test Graph		Pass
	1717.5	75	0	Refer To Test		Pass
	1745	1	0	Refer To Test	Graph	Pass
QPSK -		1	0	Refer To Test	Graph	Pass
	1772.5	1	74	Refer To Test	Graph	Pass
	-	75	0	Refer To Test	Limit t Graph t Graph	Pass
		1	0	Refer To Test	Graph	Pass
	1717.5	75	0	Refer To Test Graph		Pass
1604M	1745	1	0	Refer To Test	Graph	Pass
16QAM —	1772.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test	Limit t Graph t Graph	Pass
	4747 5	1	0	Refer To Test	Graph	Pass
	1717.5	75	0	Refer To Test	Graph	Pass
64QAM	1745	1	0	Refer To Test	Graph	Pass
64QAIVI		4	0	Refer To Test	Graph	Pass
	1772.5	1772.5	74	Refer To Test Graph		Pass
	-	75	0	Refer To Test	Graph	Pass
		1	0	Refer To Test	Graph	Pass
	1717.5	75	0	Refer To Test Graph		Pass
2500 4 44	1745	1	0	Refer To Test	Graph	Pass
256QAM		1	0	Refer To Test	Graph	Pass
	1772.5	1	74	Refer To Test Graph		Pass
	Ē	75	0	Refer To Test		Pass

#### 5.1.6 B66\_20MHz

		Ba	nd: 66 / Bandwidth:	: 20MHz / NTNV			
Modulation	Frequency	RB AI	location	Spurious Emission		Verdict	
wouldtion	(MHz)	Size	Offset	Result	Limit	verdict	
	(MHz)   Size   Offset   Result   Limit     1720   1   0   Refer To Test Graph   1     1745   1   0   Refer To Test Graph   1     1745   1   0   Refer To Test Graph   1     1745   1   0   Refer To Test Graph   1     1770   1   99   Refer To Test Graph   1     1770   1   0   Refer To Test Graph   1     1770   1   0   Refer To Test Graph   1     1720   100   0   Refer To Test Graph   1     1720   100   0   Refer To Test Graph   1     1770   1   0   Refer To Test Graph   1     1720   100   0   Refer To Test Graph   1	1	0	Refer To Test	Graph	Pass	
		100	0			Pass	
ODEK		Pass					
QPSK -		1	0	Refer To Test	Graph	Pass	
	1770	1	99	Refer To Test	Graph	Pass	
		100	0	Spurious EmissionResultLimitRefer To Test GraphRefer To Test Graph	Graph	Pass	
	1720	1	0	Refer To Test	Graph	Pass	
		100	0			Pass	
160.4M	1745	1	0	Refer To Test Graph		Pass	
16QAM	1770	1	0	Refer To Test Graph		Pass	
			99			Pass	
		100	0	0Refer To Test Graph0Refer To Test Graph99Refer To Test Graph0Refer To Test Graph0Refer To Test Graph0Refer To Test Graph	Pass		
	1720	1	0	Refer To Test	Graph	Pass	
		100	0	Refer To Test Graph		Pass	
64QAM	1745	1	0	Refer To Test	Graph	Pass	
64QAIVI		4	0	Refer To Test	Graph	Pass	
	1770	1	99	Refer To Test Graph		Pass	
		100	0			Pass	
	1700	1	0	Refer To Test	Graph	Pass	
	1720	100	0			Pass	
2560414	1745	1	0			Pass	
256QAM -		1	0	Refer To Test	Graph	Pass	
	1770		99	Refer To Test Graph		Pass	
		100	0	Refer To Test	Graph	Pass	

# 5.2 Test Graph

#### 5.2.1 B66\_1.4MHz

