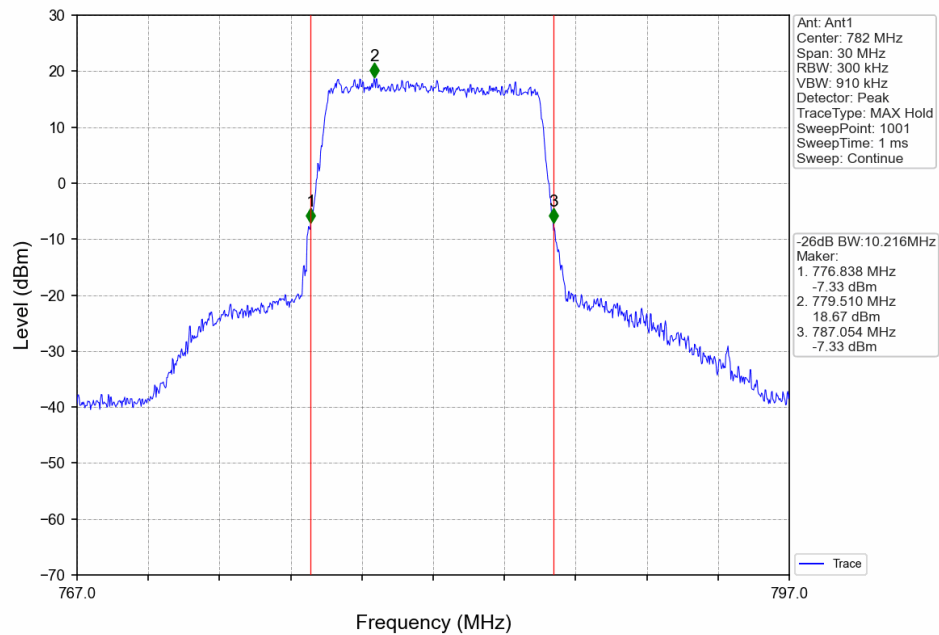
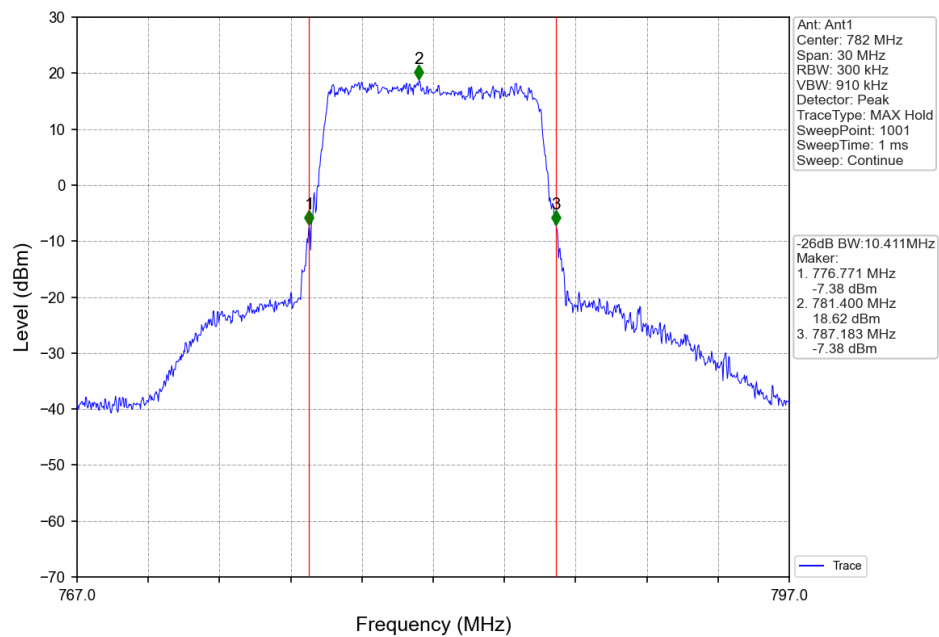




Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV

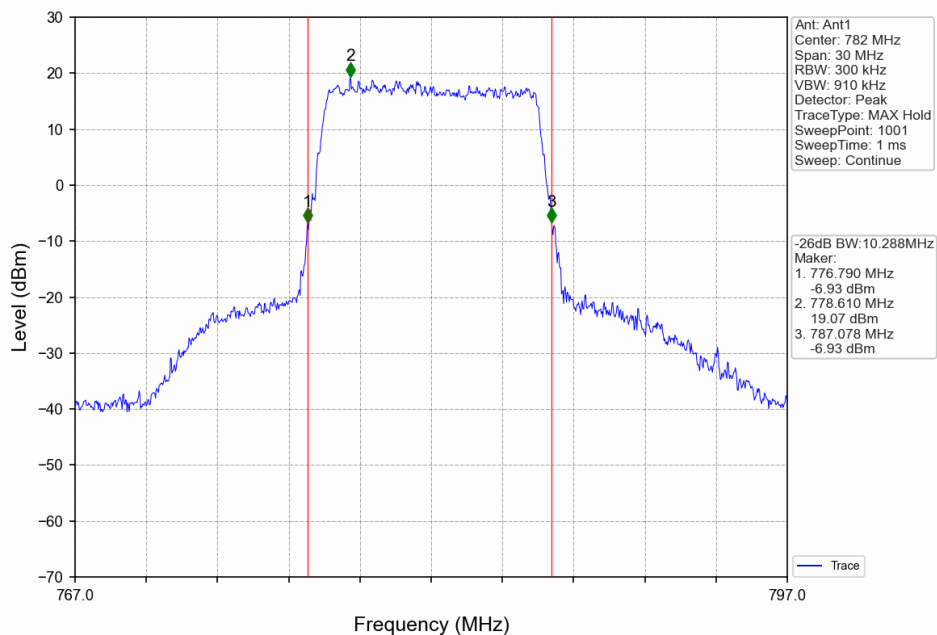




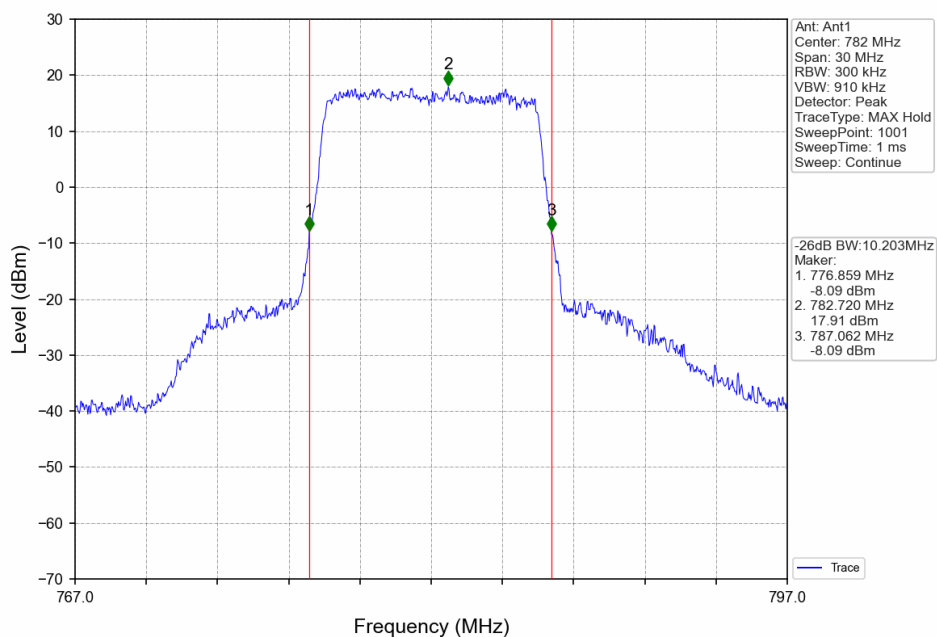
BUREAU
VERITAS

Test Report No.: W7L-P21090022RF06

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



BV 7Layers Communications
Technology (Shenzhen) Co. Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan
Avenue, North Area, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, China

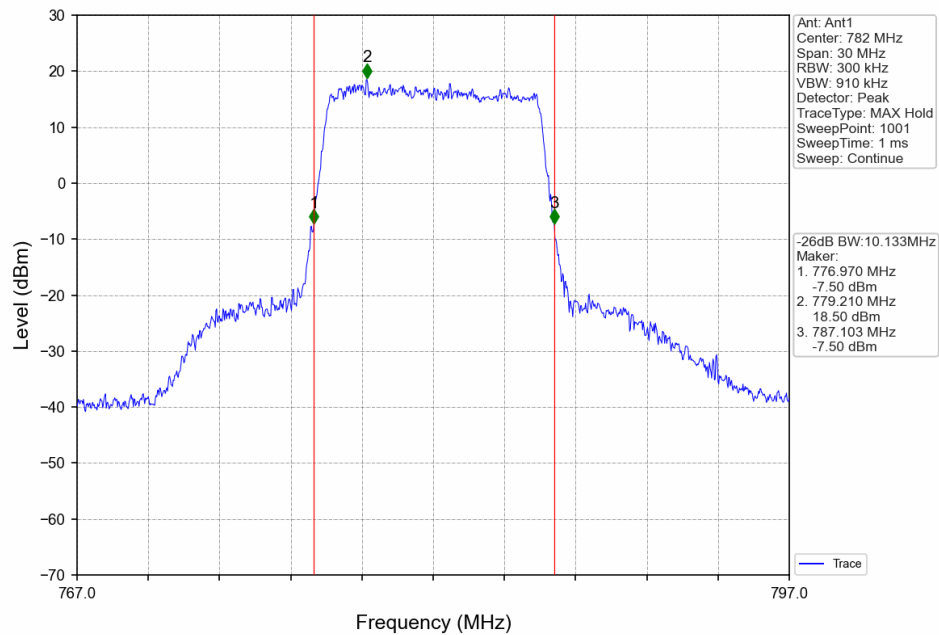
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

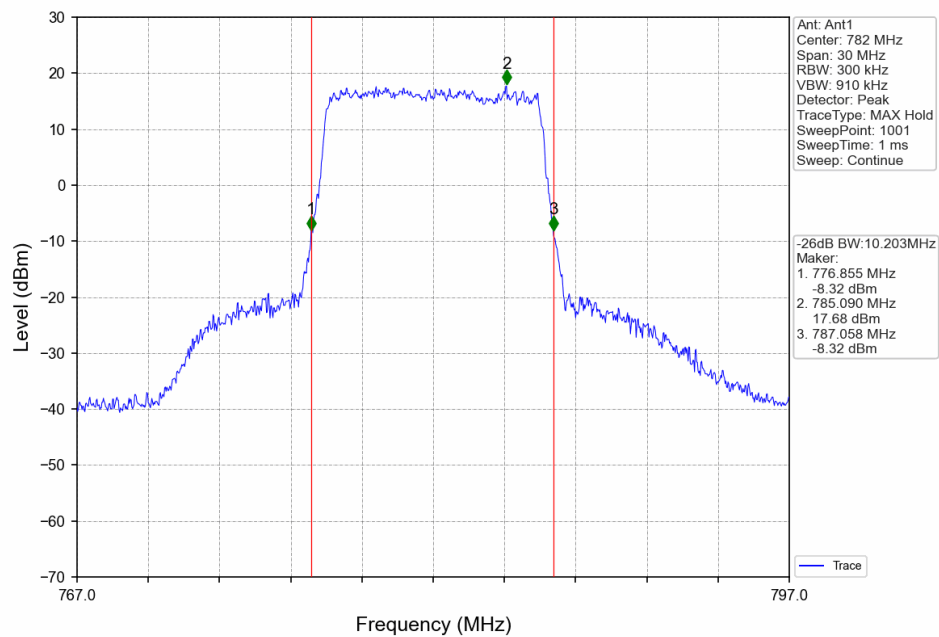
Email: customerservice.sw@bureauveritas.com



Band13_10MHz_16QAM_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV



2.10. Band17_XDB

2.10.1. Test Result

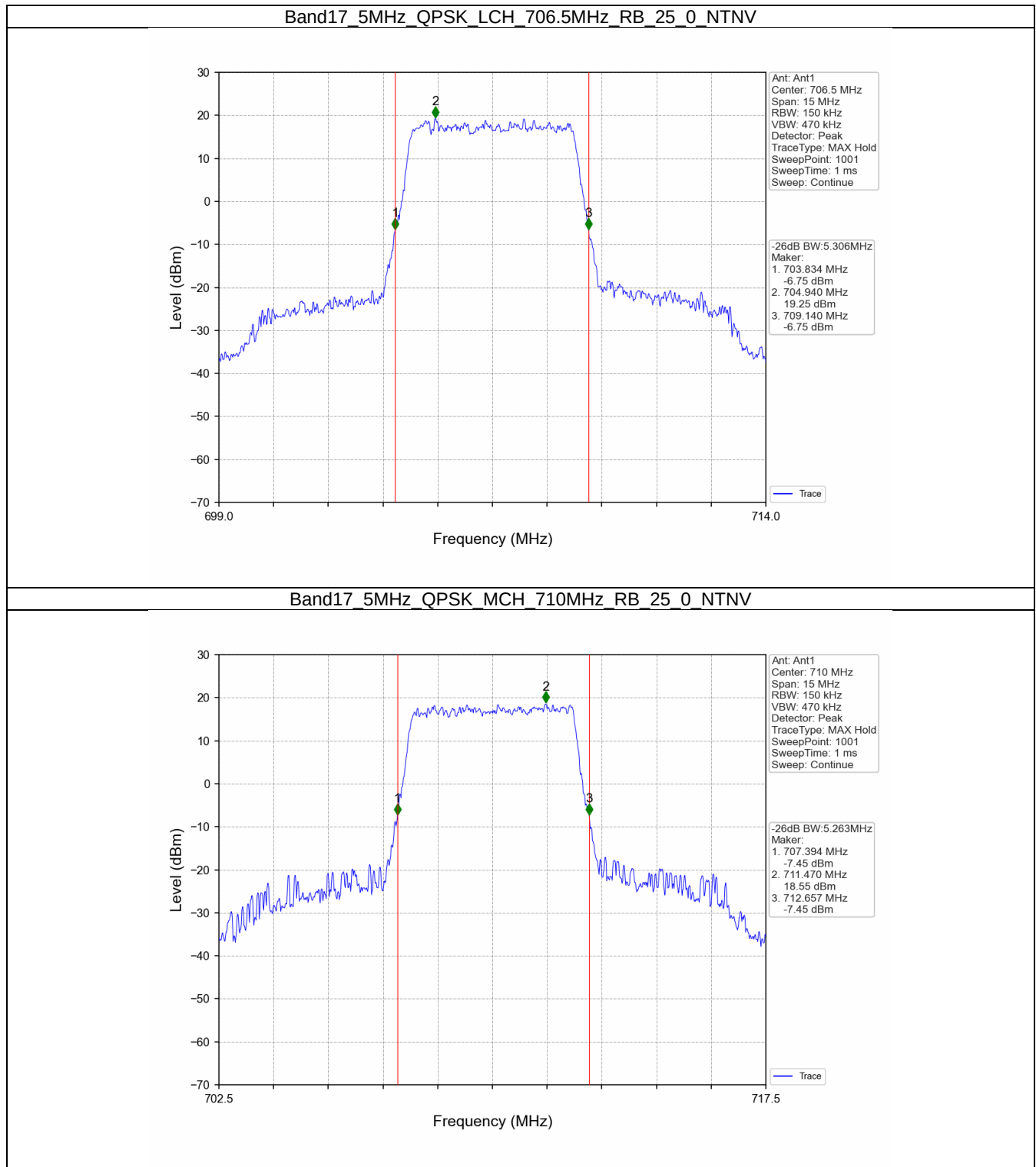
Band: 17 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	5.306	Pass
		710	25	0	5.263	Pass
		713.5	25	0	5.281	Pass
	16QAM	706.5	25	0	5.257	Pass
		710	25	0	5.248	Pass
		713.5	25	0	5.255	Pass
10	QPSK	709	50	0	10.312	Pass
		710	50	0	10.147	Pass
		711	50	0	10.222	Pass
	16QAM	709	50	0	10.203	Pass
		710	50	0	10.396	Pass
		711	50	0	10.259	Pass



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VERITAS

Test Report No.: W7L-P21090022RF06

2.10.2. Test Graph



BV 7Layers Communications
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District, Shenzhen, Guangdong, China

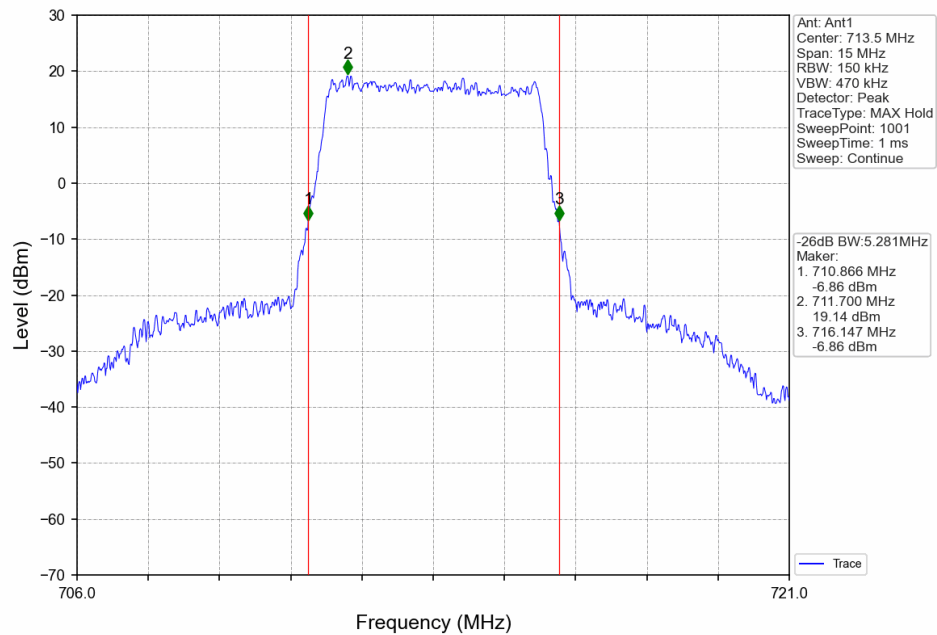
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

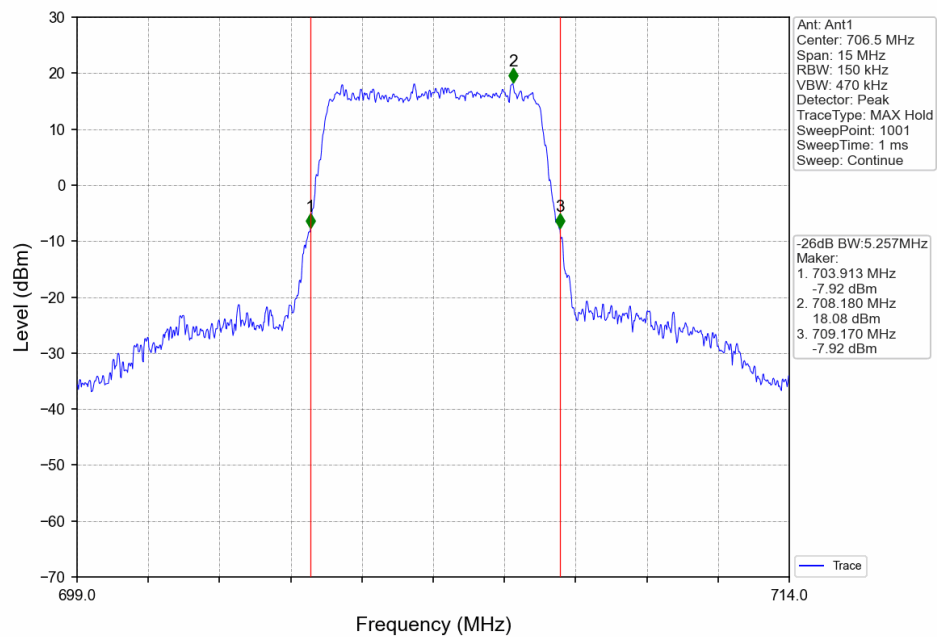
Email: customerservice.sw@bureauveritas.com



Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

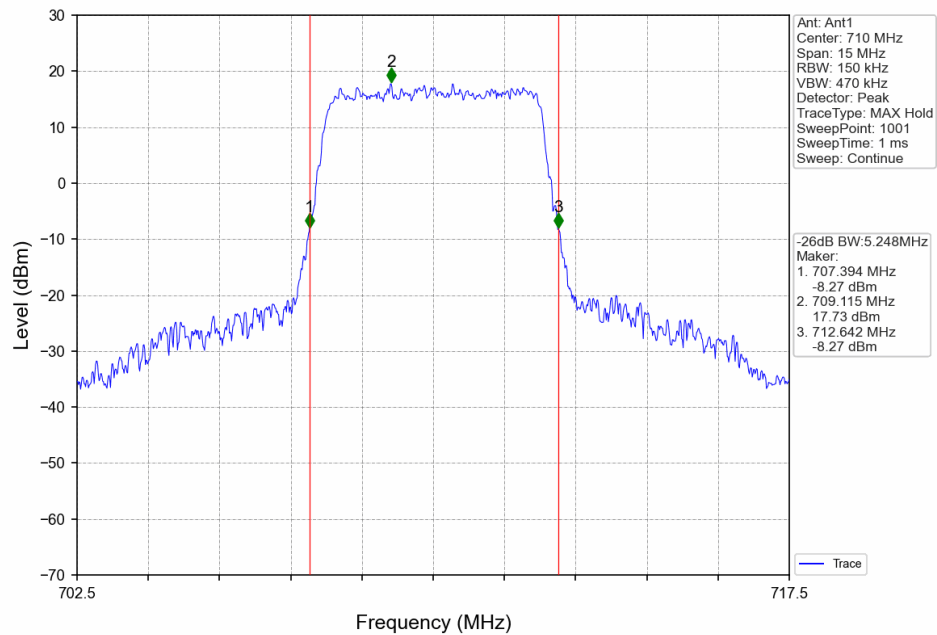


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

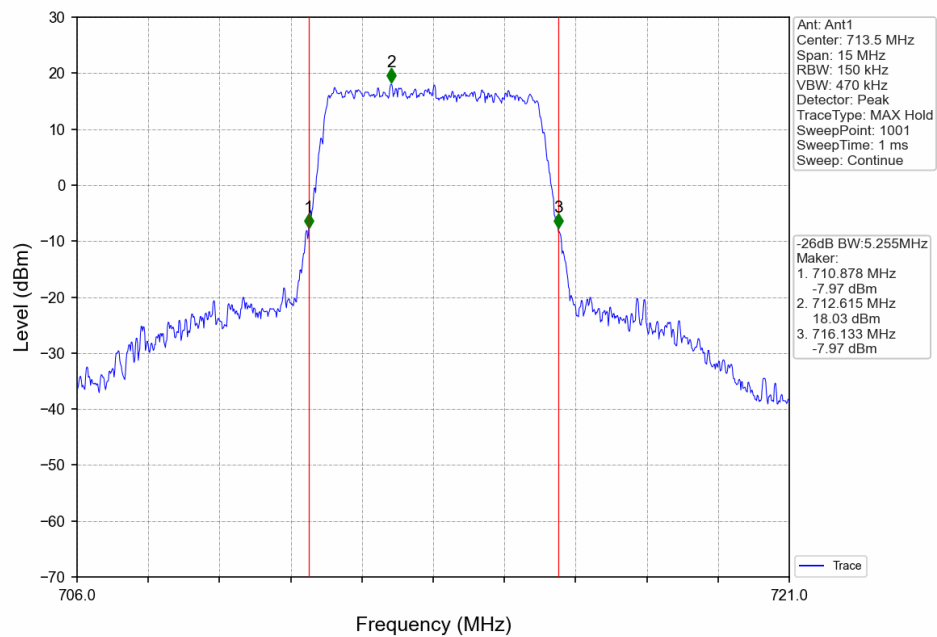




Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

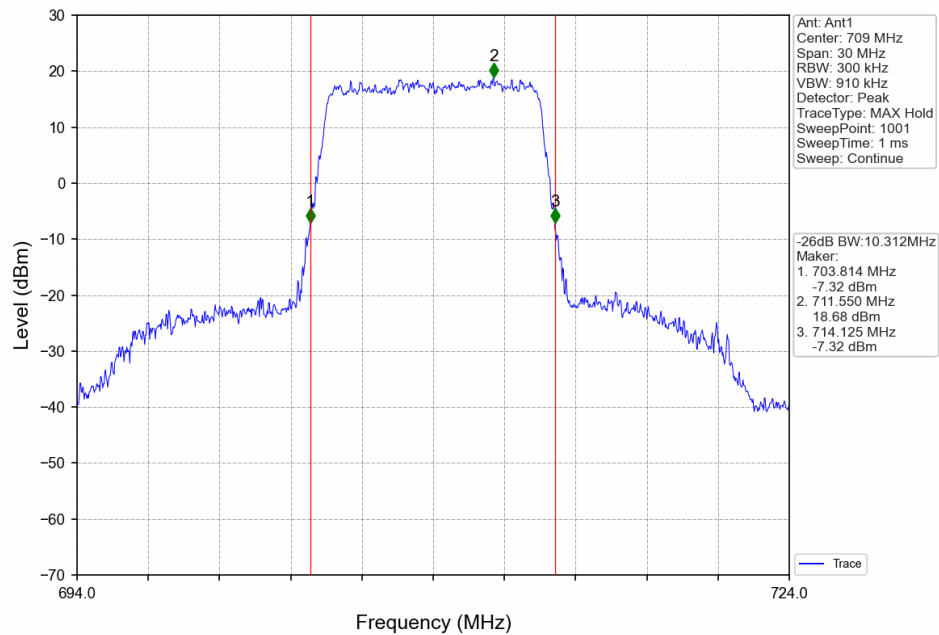


Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

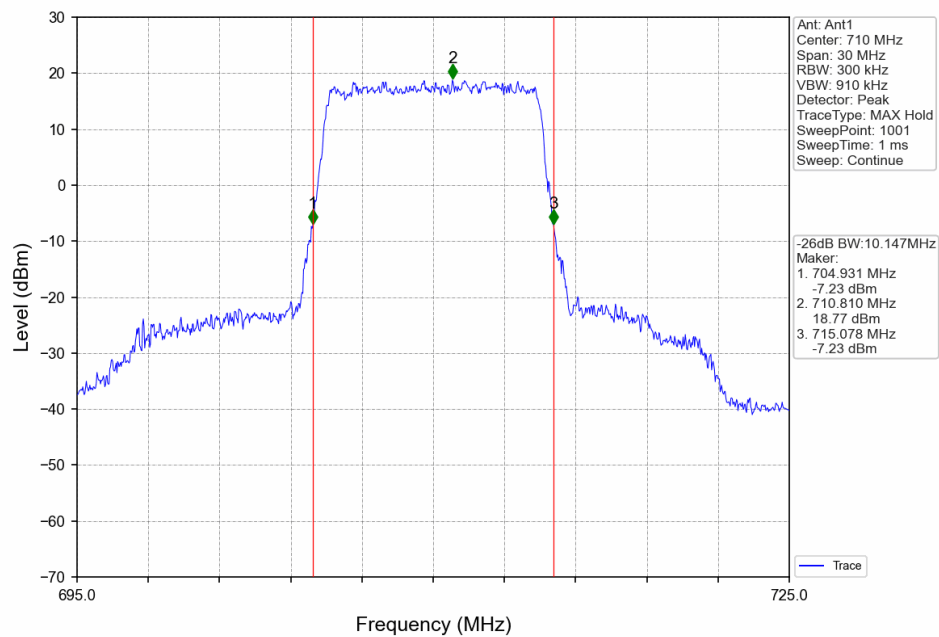




Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

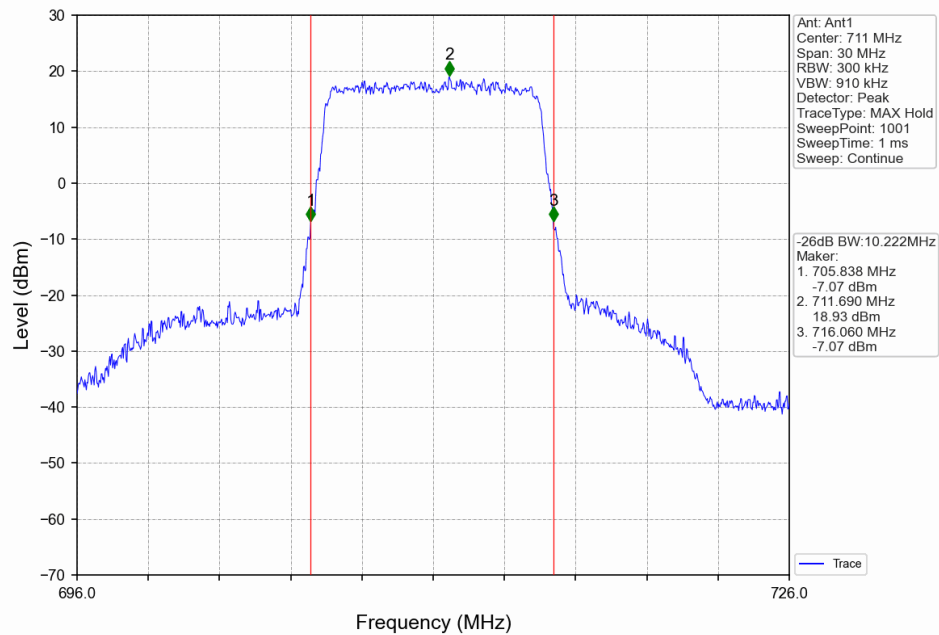


Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

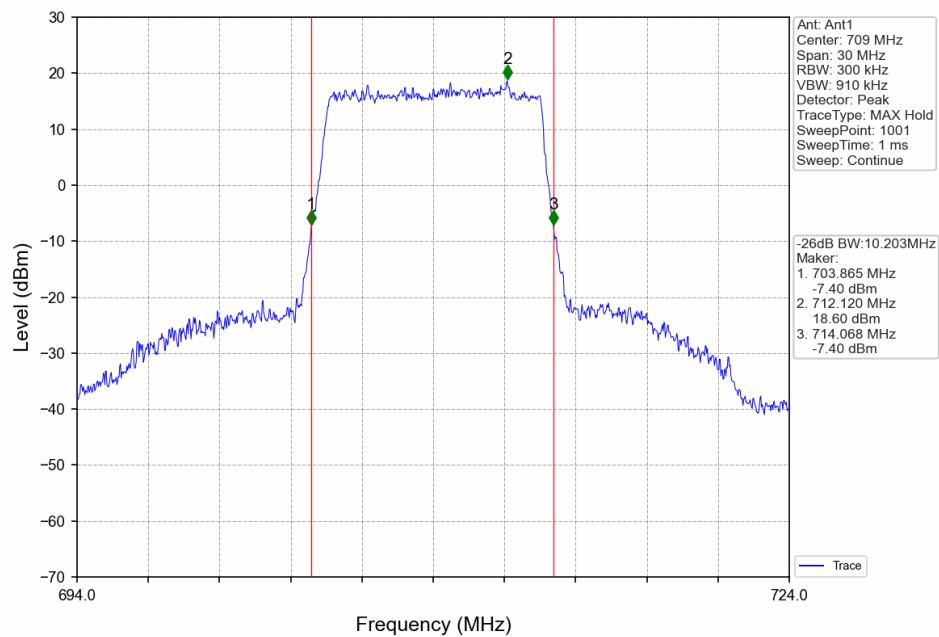




Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

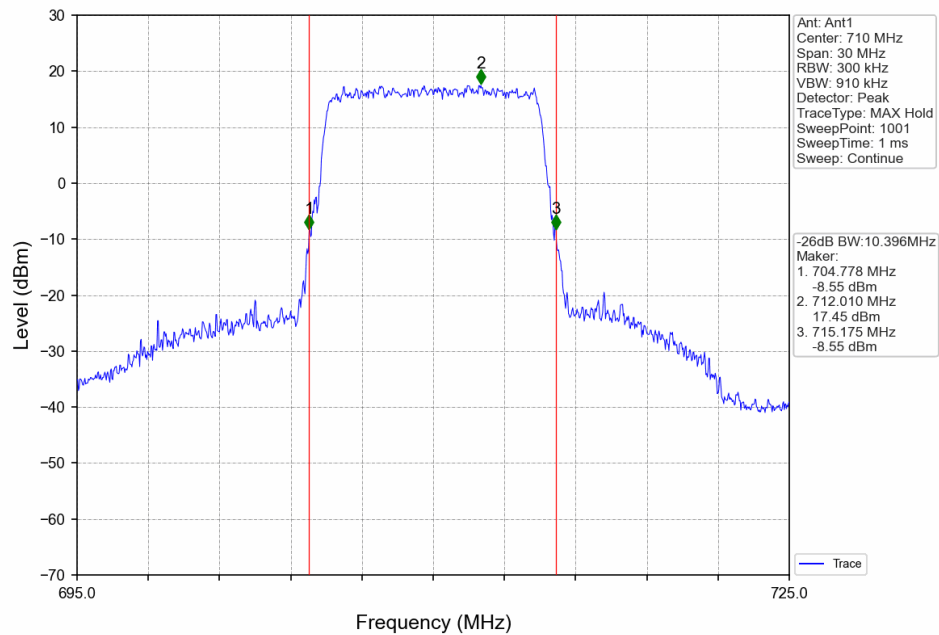


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

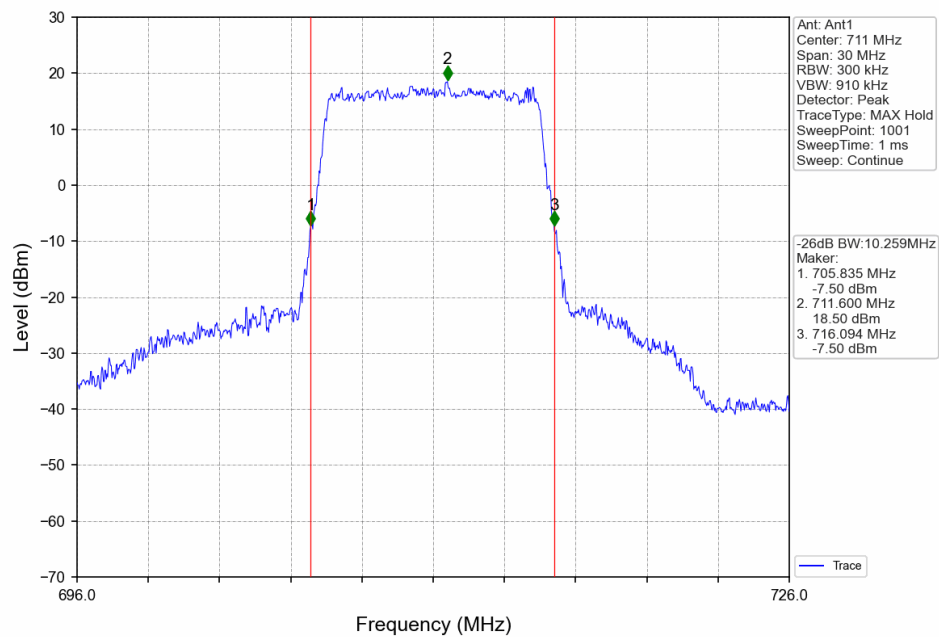




Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



3. Peak-Average Ratio

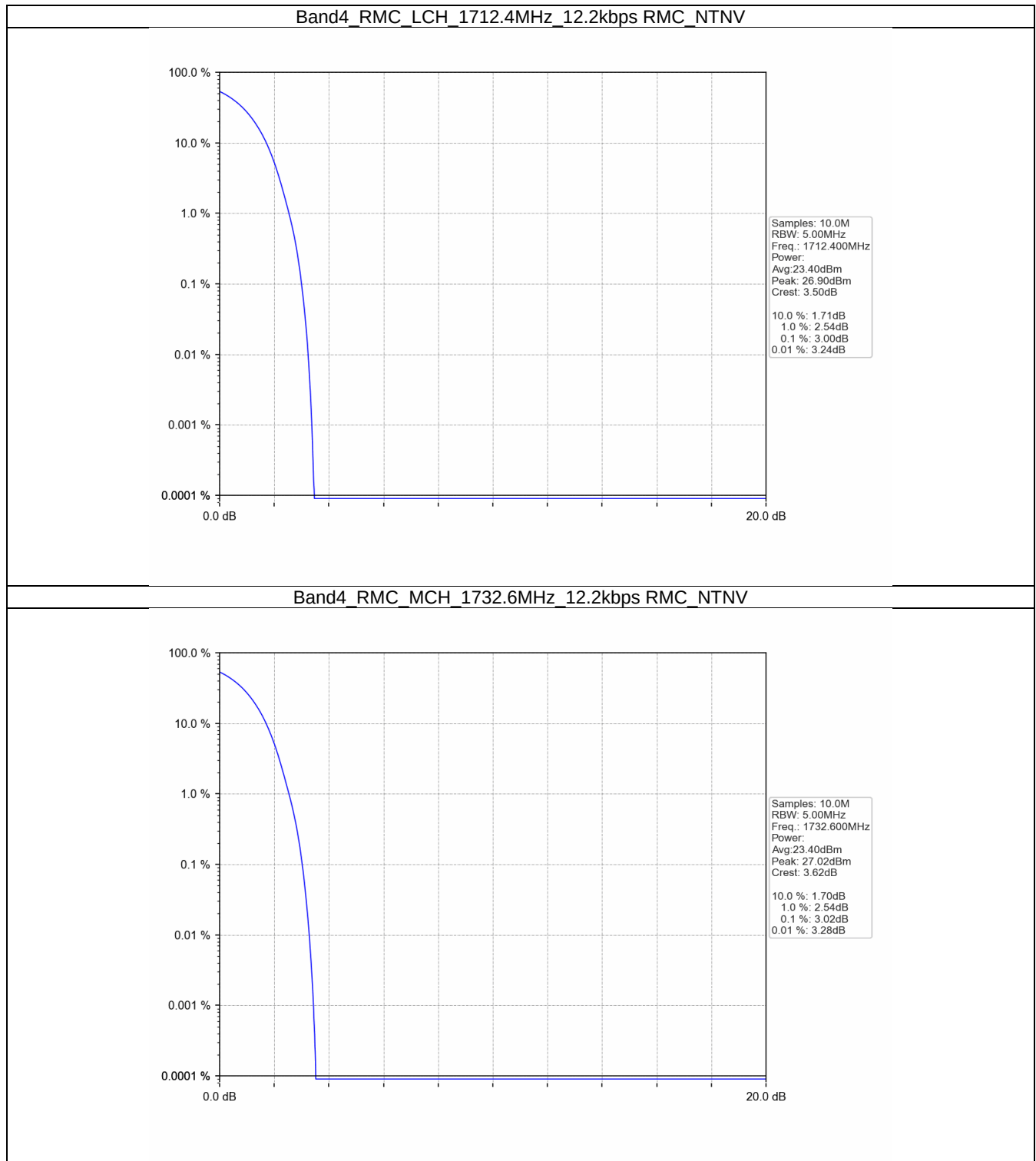
3.1. WCDMA_Band4

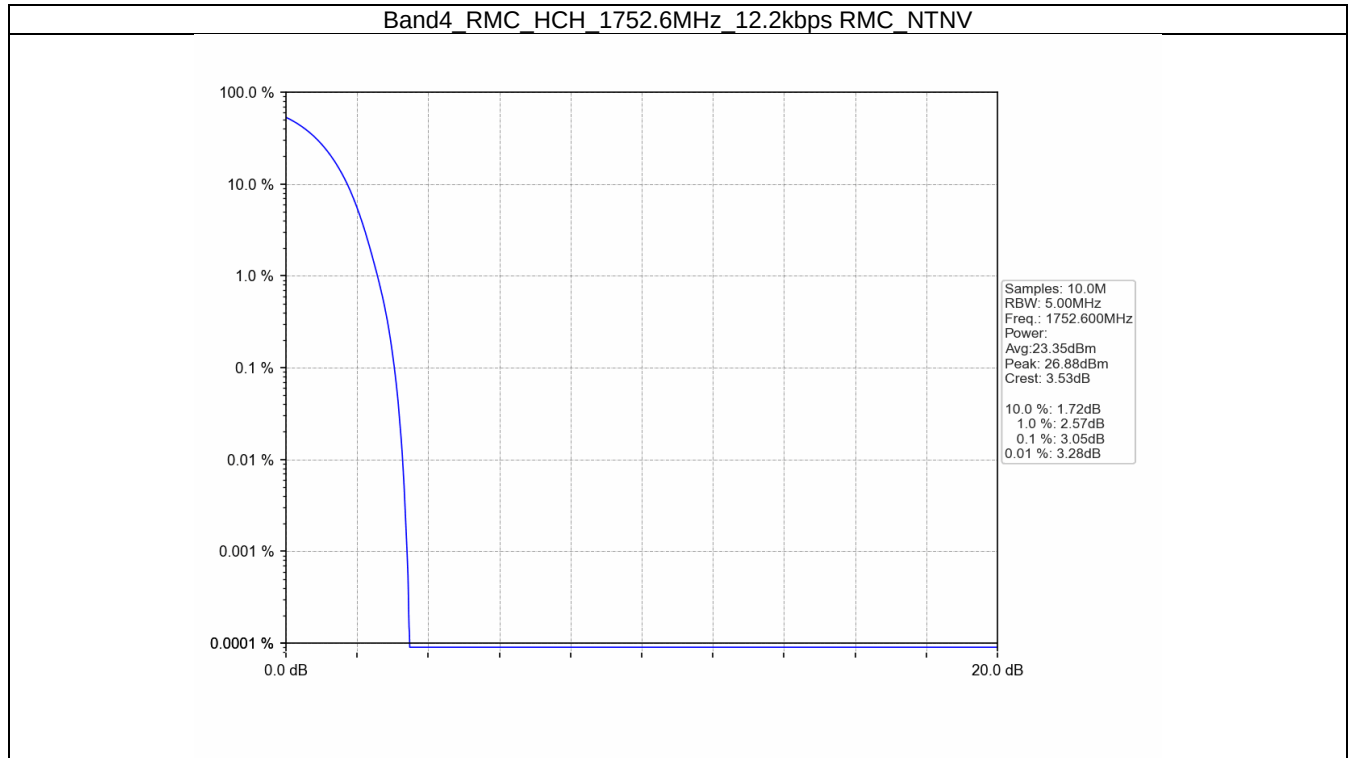
3.1.1. Test Result

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.00	<=13	Pass
			1732.6	3.02	<=13	Pass
			1752.6	3.05	<=13	Pass



3.1.2. Test Graph





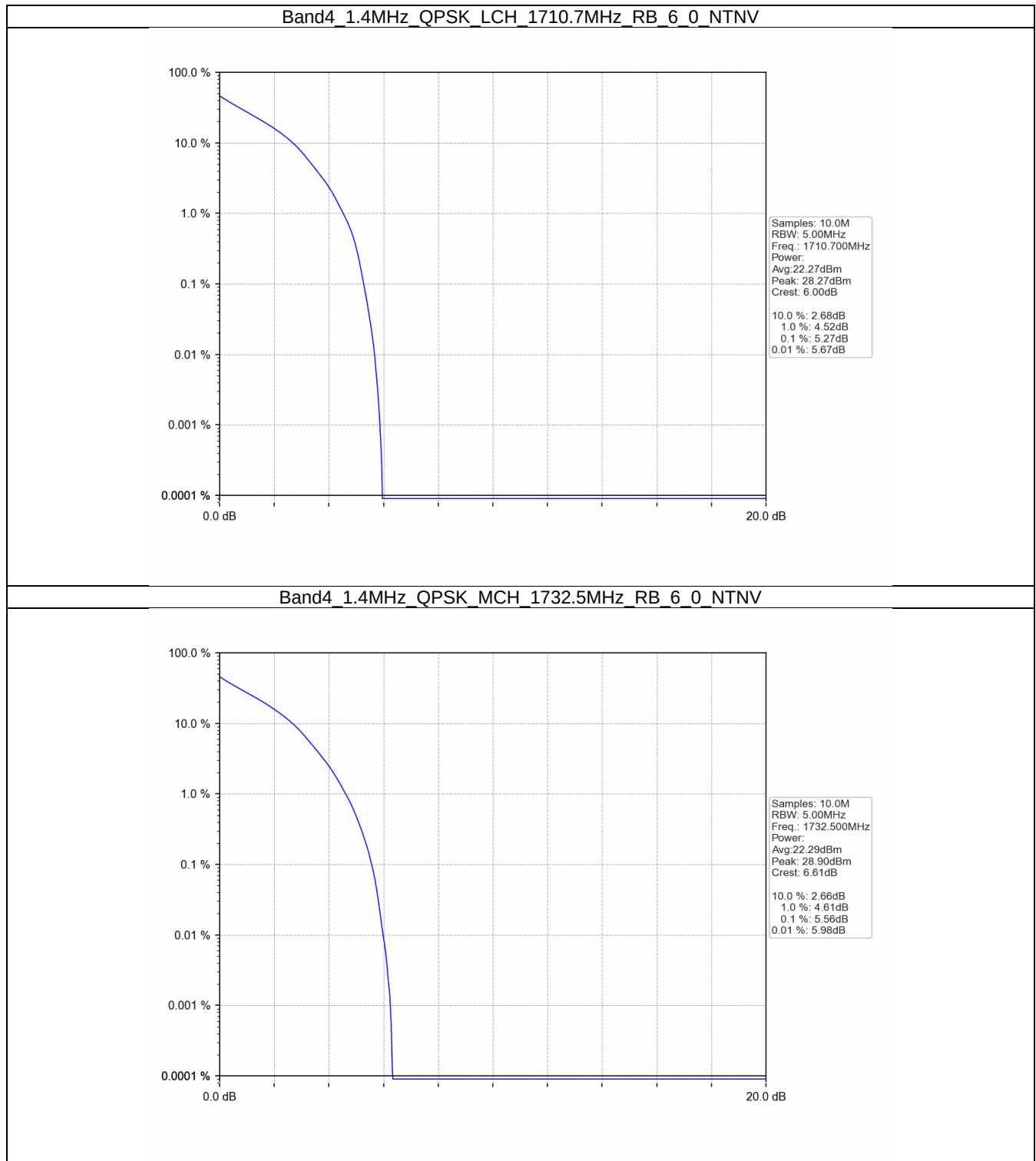
3.2. LTE_B4_1.4MHz

3.2.1. 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	5.27	<=13	Pass
	1732.5	6	0	5.56	<=13	Pass
	1754.3	6	0	5.34	<=13	Pass
16QAM	1710.7	6	0	6.18	<=13	Pass
	1732.5	6	0	6.34	<=13	Pass
	1754.3	6	0	6.16	<=13	Pass

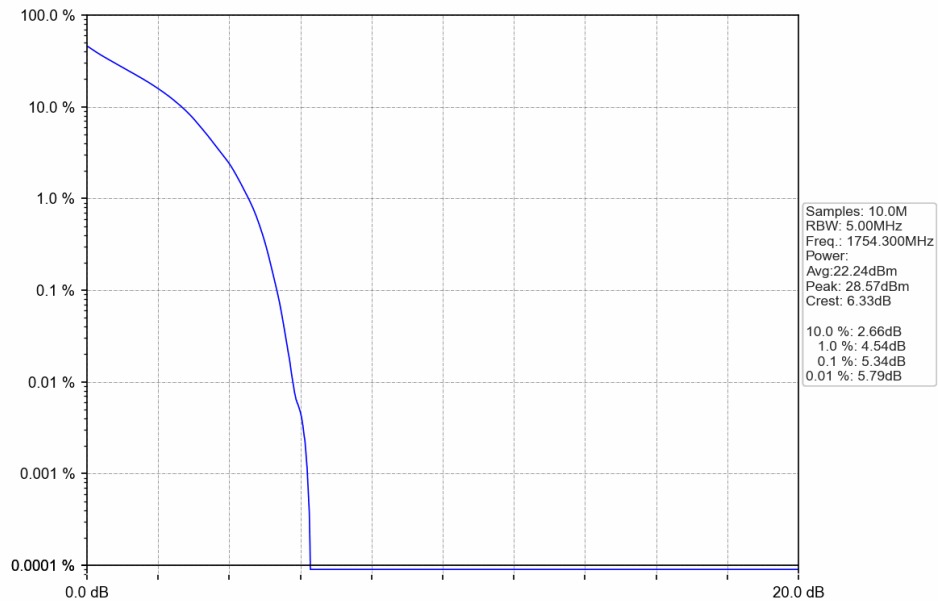


3.2.2. Test Graph

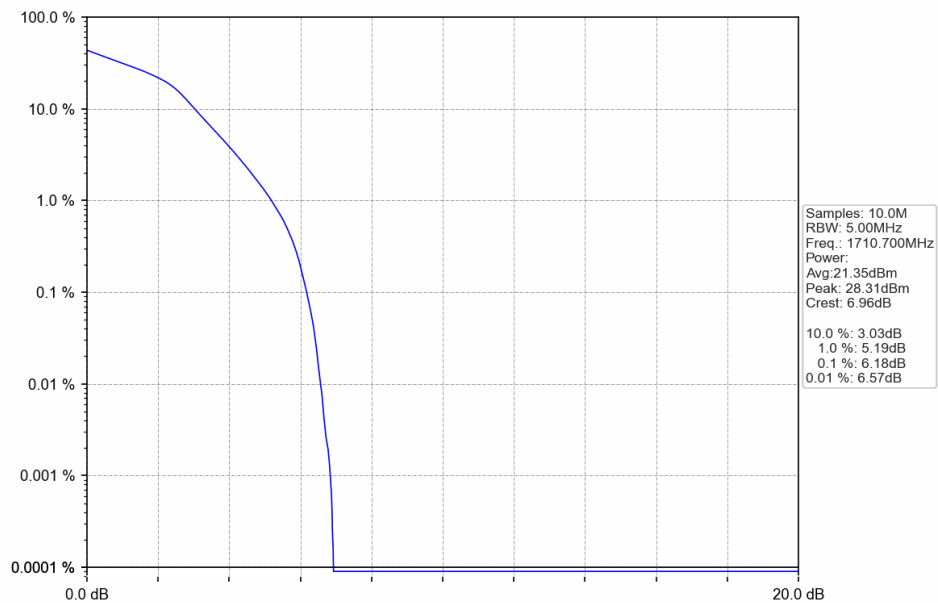




Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

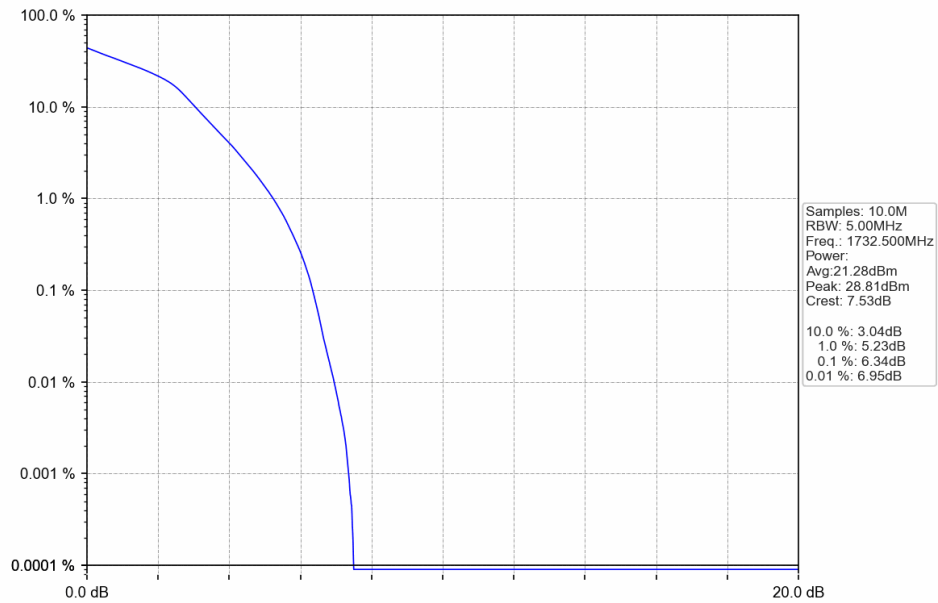


Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV

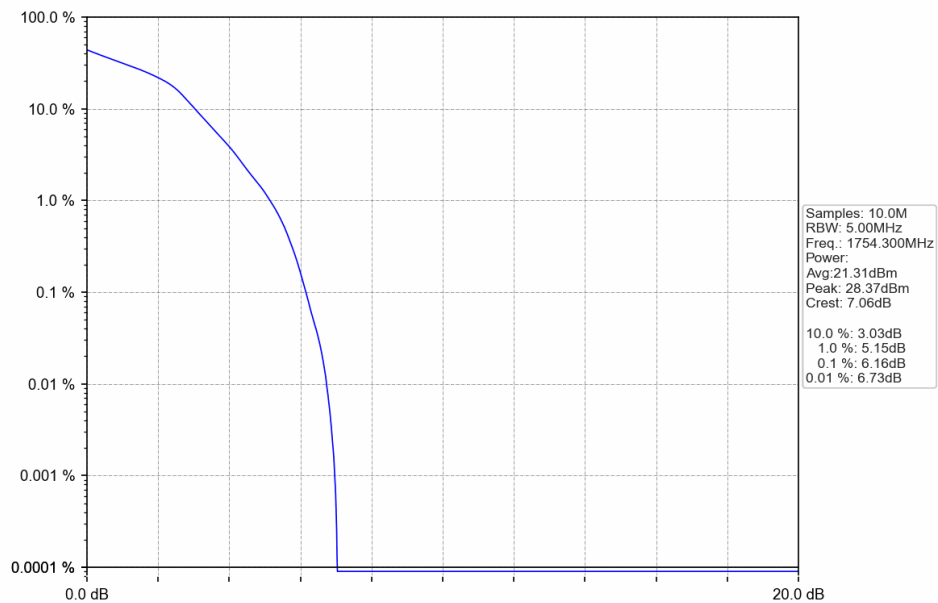




Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV





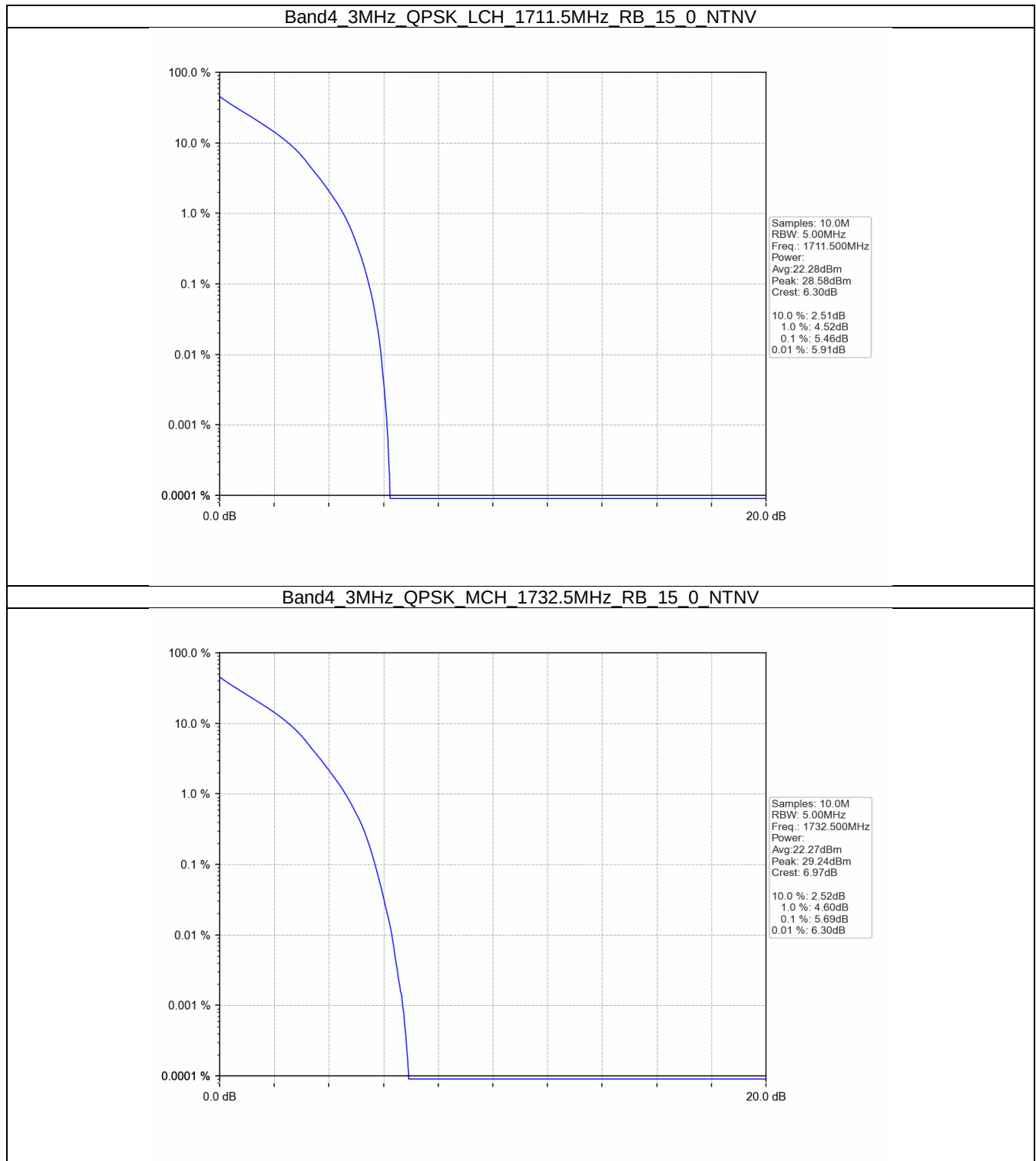
3.3. LTE_B4_3MHz

3.3.1. 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	5.46	<=13	Pass
	1732.5	15	0	5.69	<=13	Pass
	1753.5	15	0	5.48	<=13	Pass
16QAM	1711.5	15	0	6.33	<=13	Pass
	1732.5	15	0	6.51	<=13	Pass
	1753.5	15	0	6.32	<=13	Pass

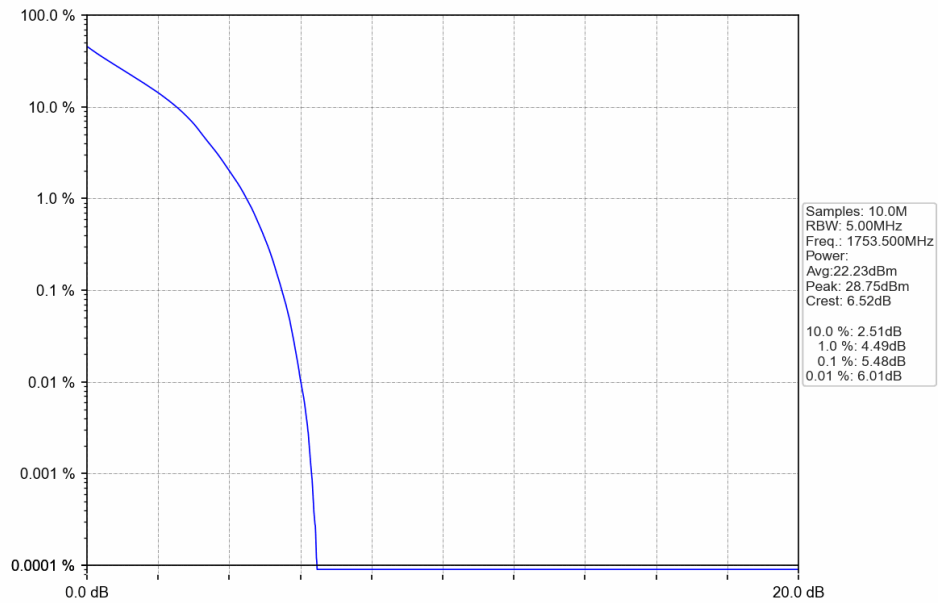


3.3.2. Test Graph

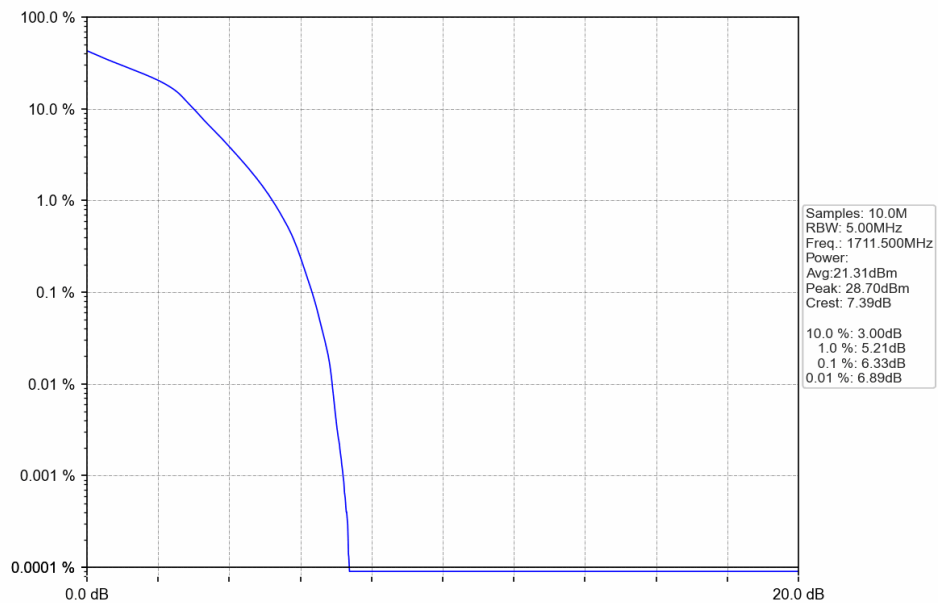




Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

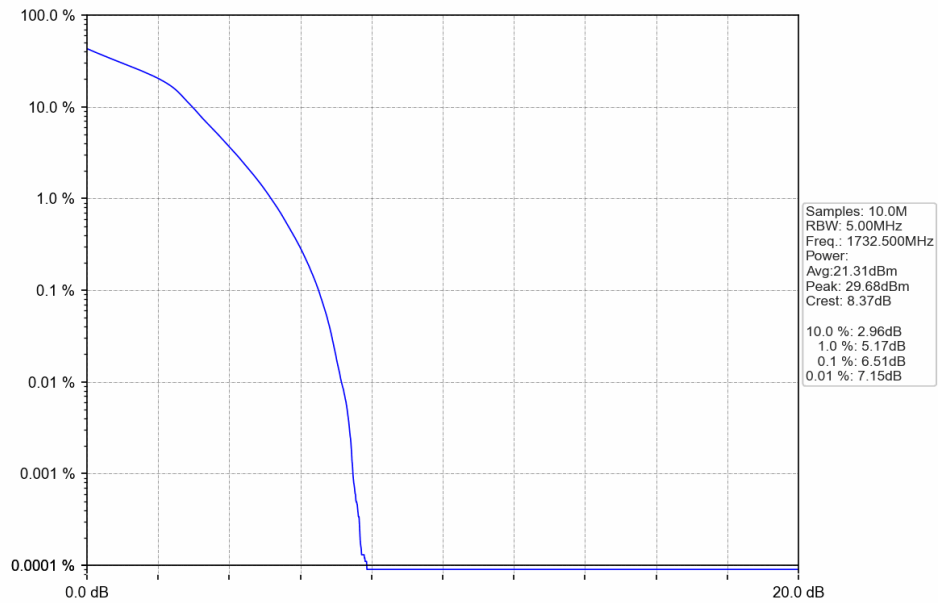


Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

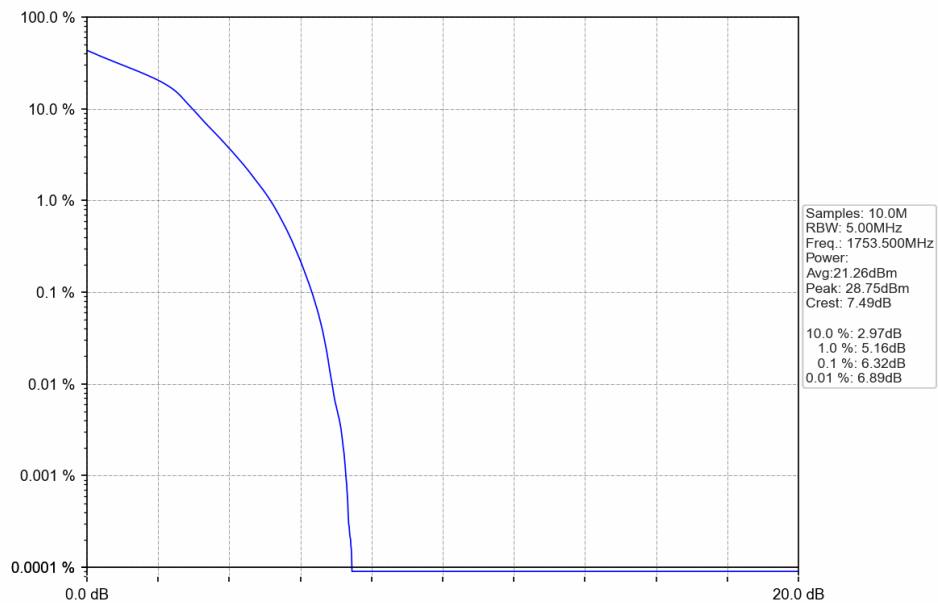




Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV





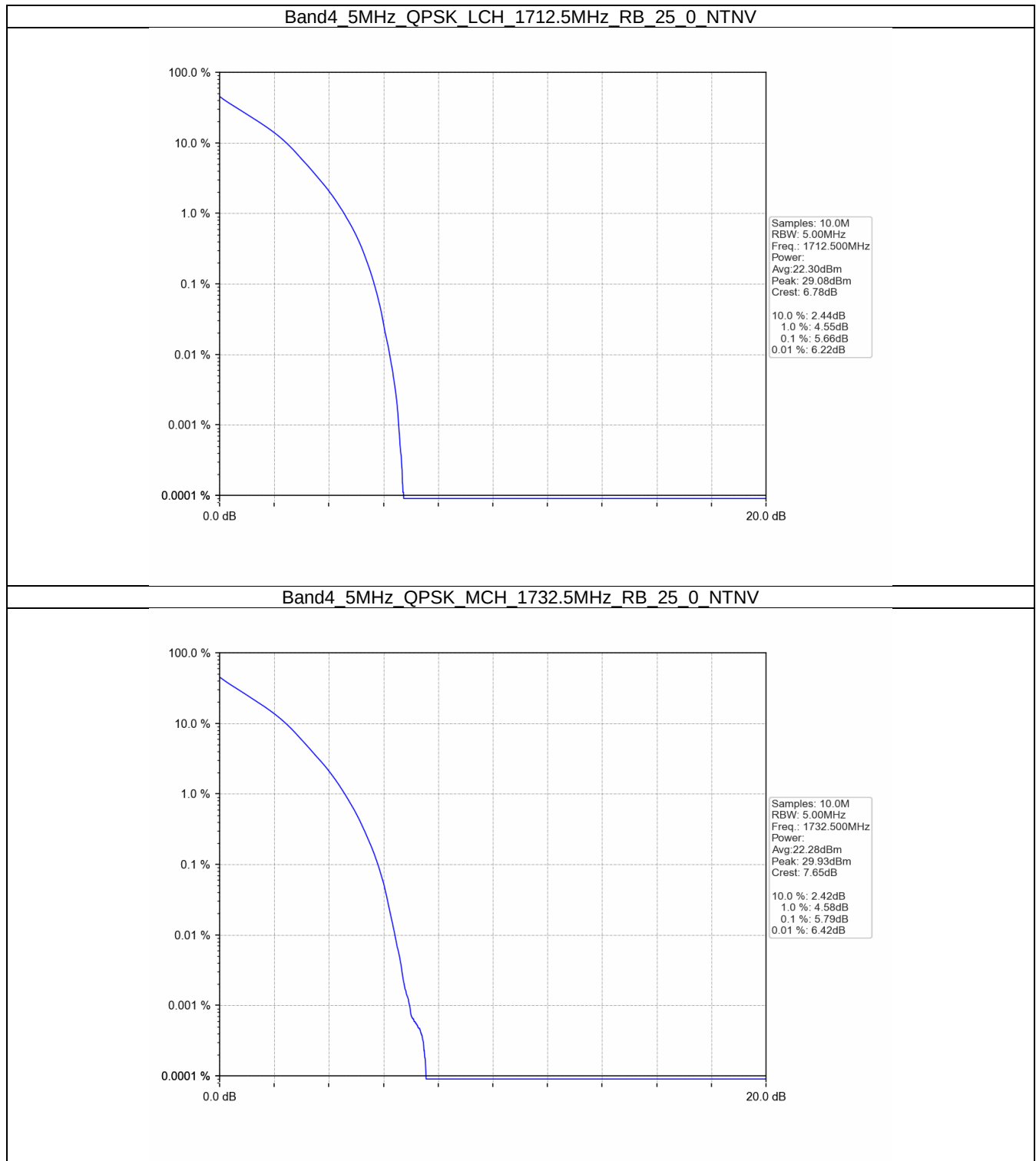
3.4. LTE_B4_5MHz

3.4.1. 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	5.66	<=13	Pass
	1732.5	25	0	5.79	<=13	Pass
	1752.5	25	0	5.59	<=13	Pass
16QAM	1712.5	25	0	6.39	<=13	Pass
	1732.5	25	0	6.52	<=13	Pass
	1752.5	25	0	6.35	<=13	Pass

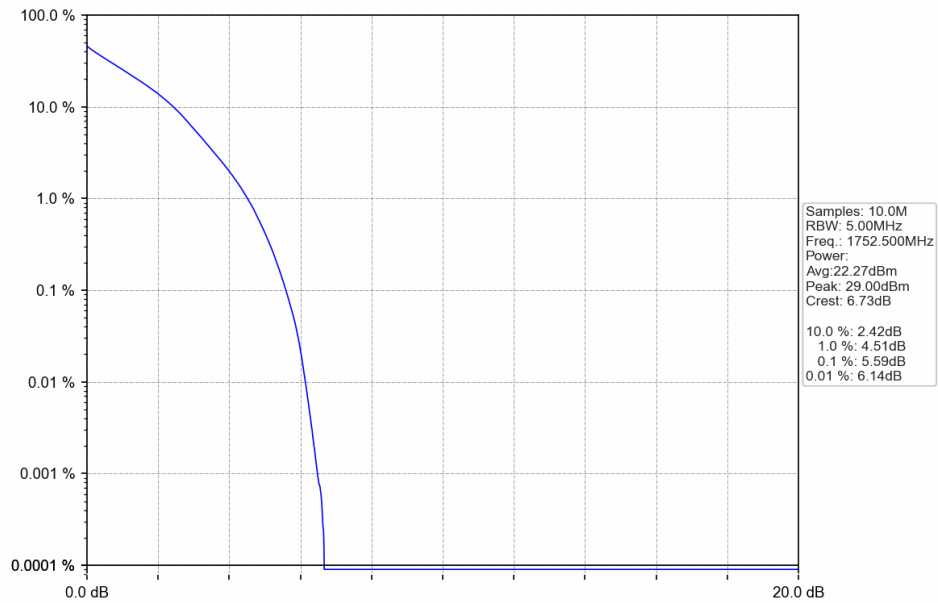


3.4.2. Test Graph

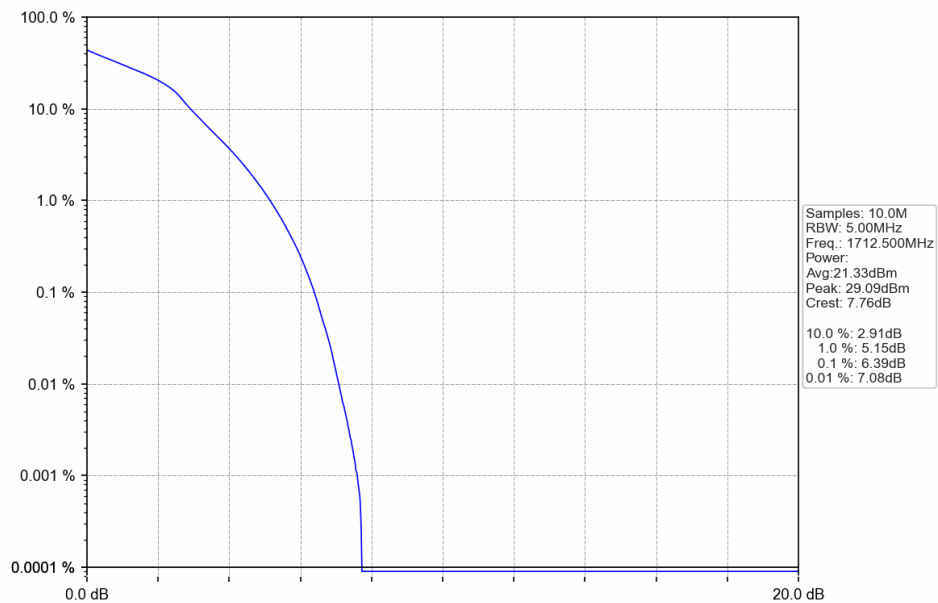




Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV

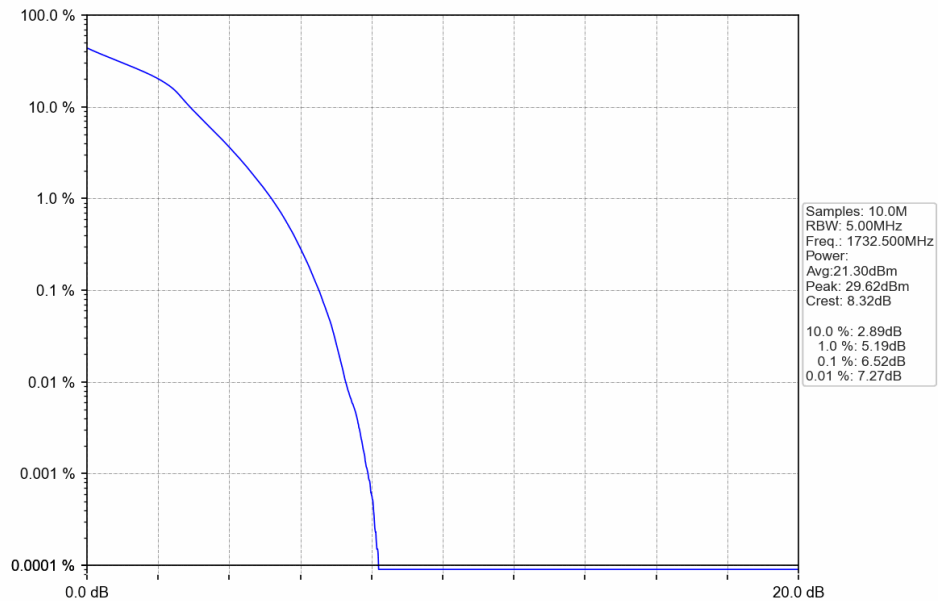


Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV

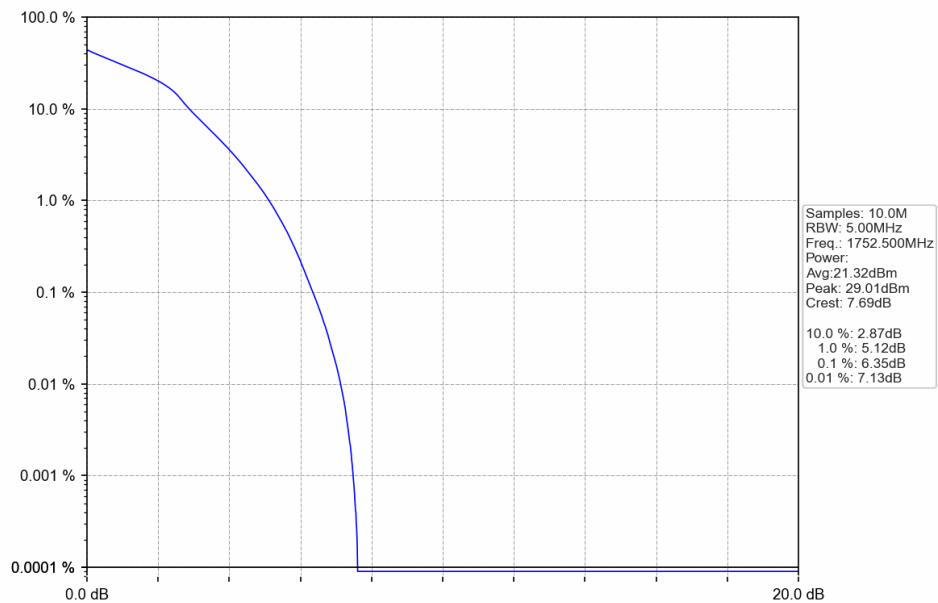




Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV





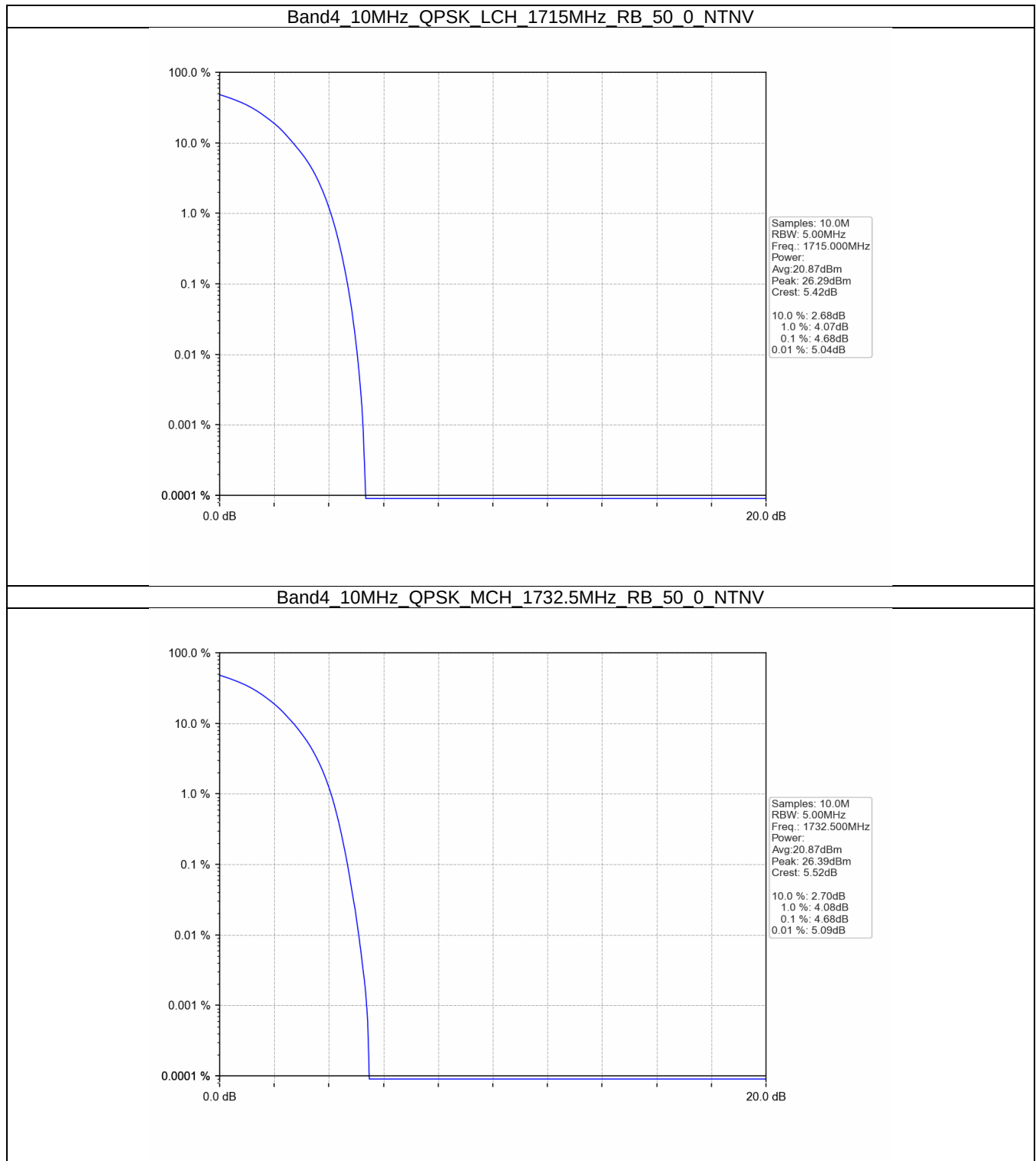
3.5. LTE_B4_10MHz

3.5.1. 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	4.68	<=13	Pass
	1732.5	50	0	4.68	<=13	Pass
	1750	50	0	4.64	<=13	Pass
16QAM	1715	50	0	6.20	<=13	Pass
	1732.5	50	0	6.16	<=13	Pass
	1750	50	0	6.17	<=13	Pass

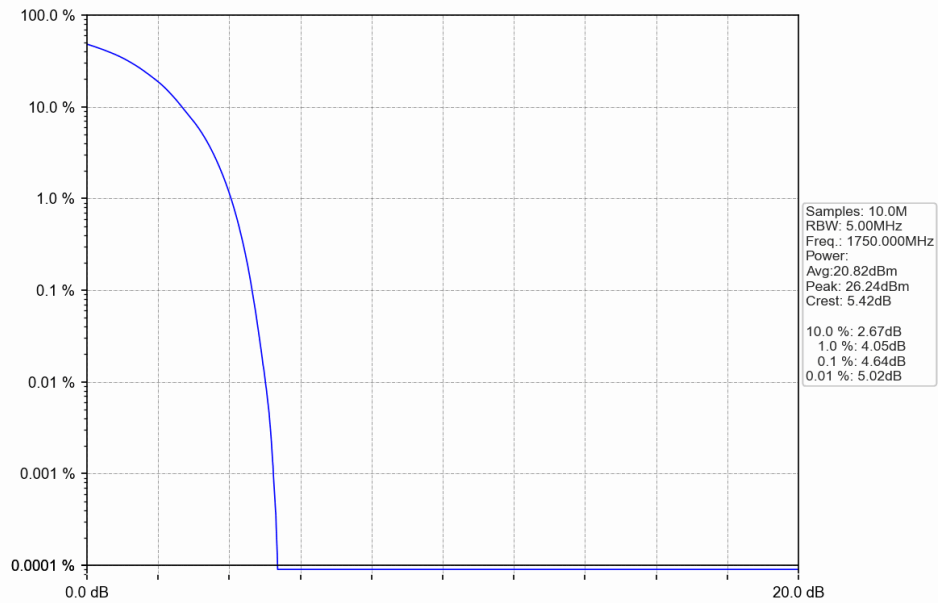


3.5.2. Test Graph

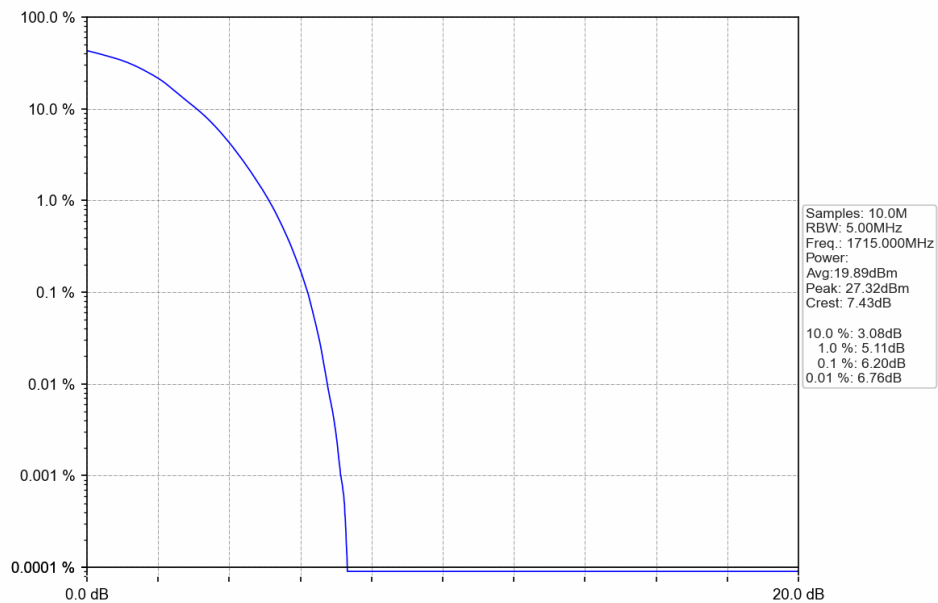




Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

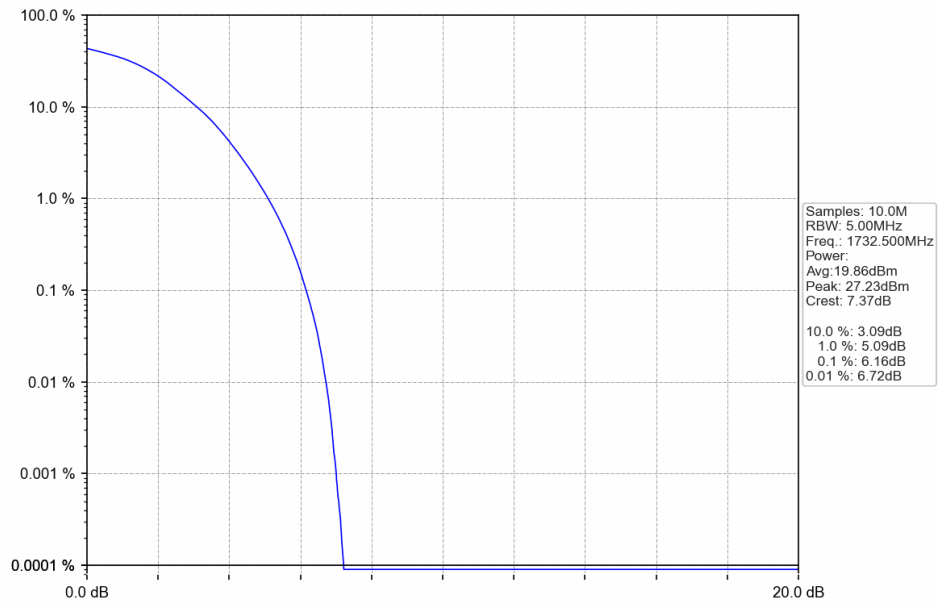


Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV

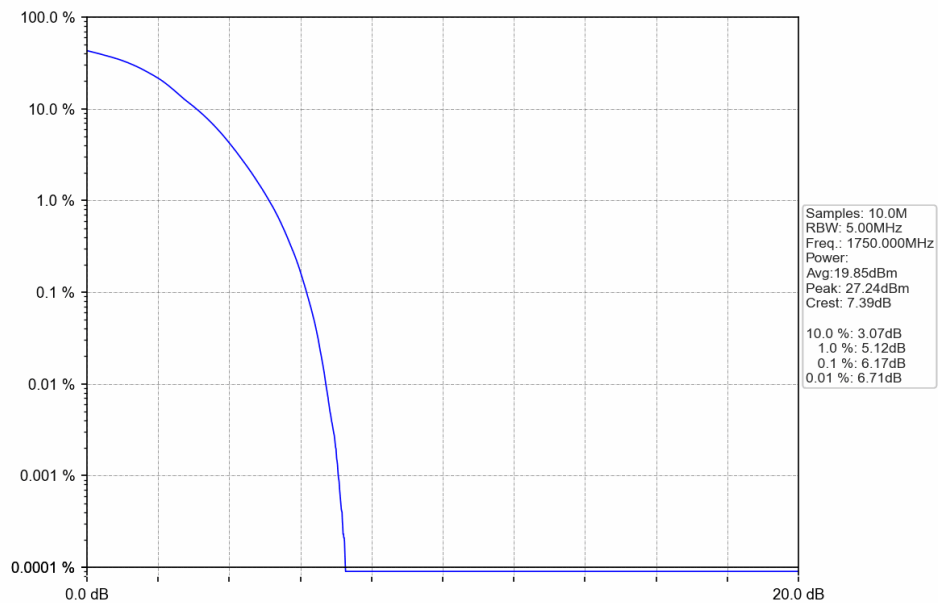




Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



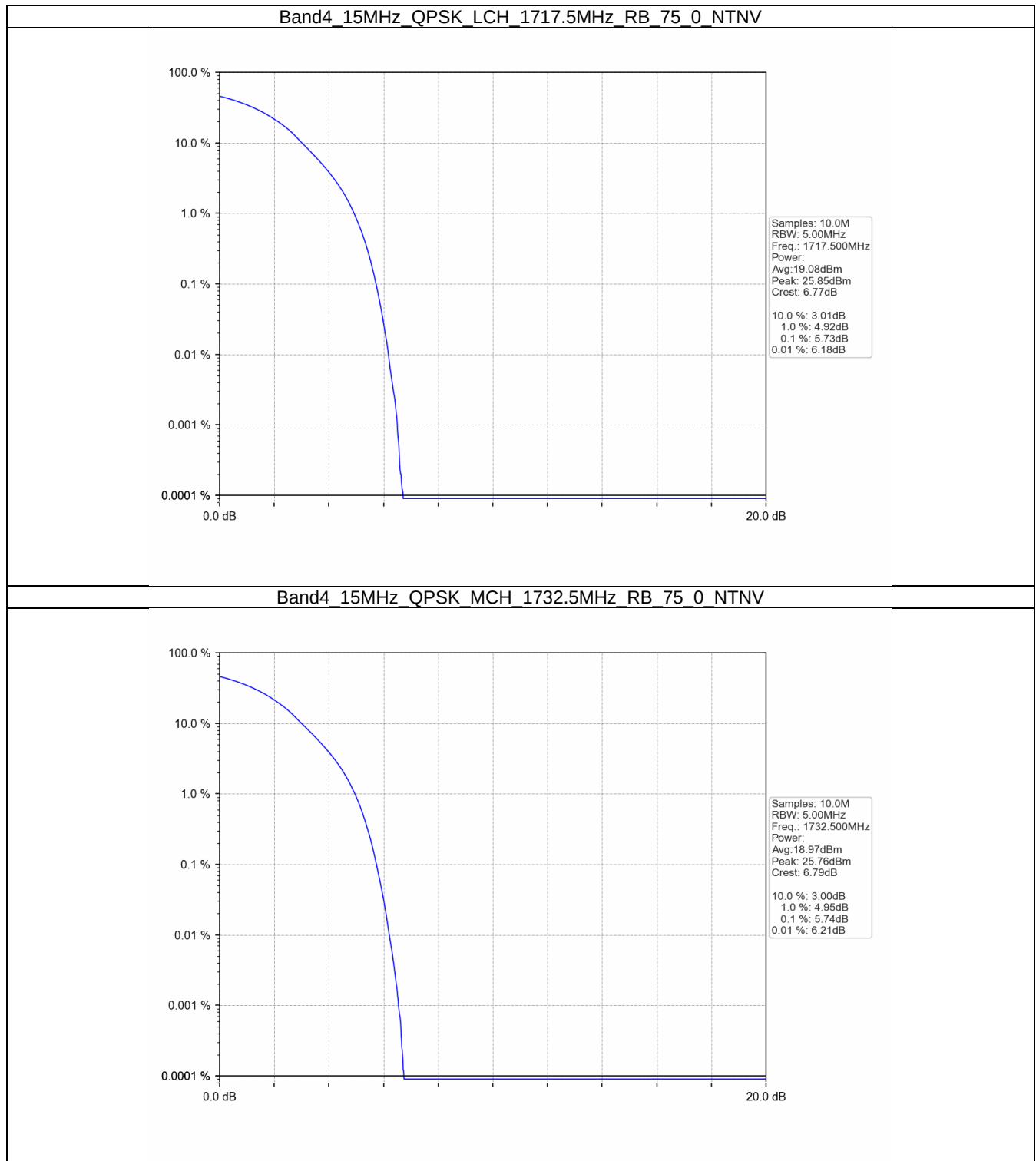
3.6. LTE_B4_15MHz

3.6.1. 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	5.73	<=13	Pass
	1732.5	75	0	5.74	<=13	Pass
	1747.5	75	0	5.75	<=13	Pass
16QAM	1717.5	75	0	6.76	<=13	Pass
	1732.5	75	0	6.83	<=13	Pass
	1747.5	75	0	6.86	<=13	Pass

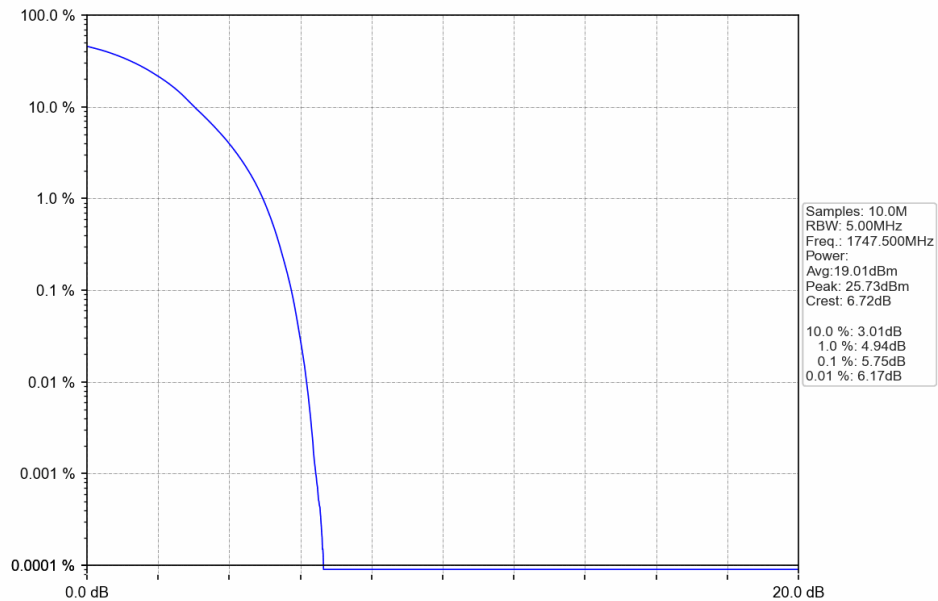


3.6.2. Test Graph

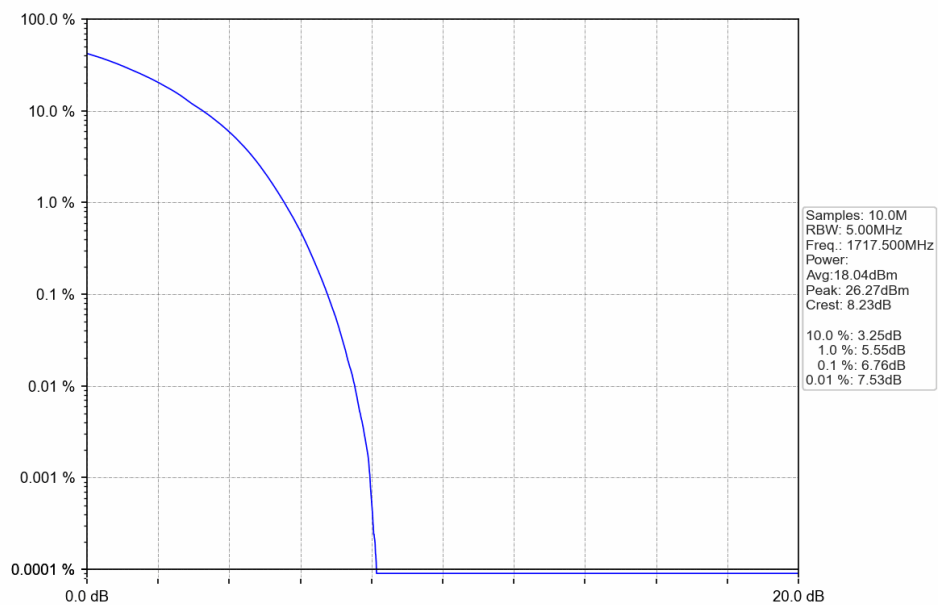




Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV

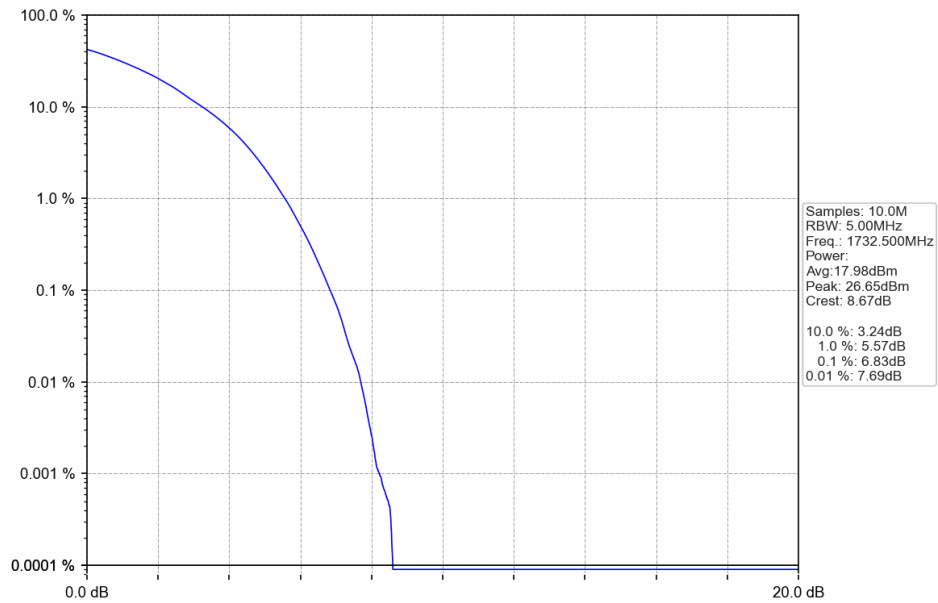


Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV

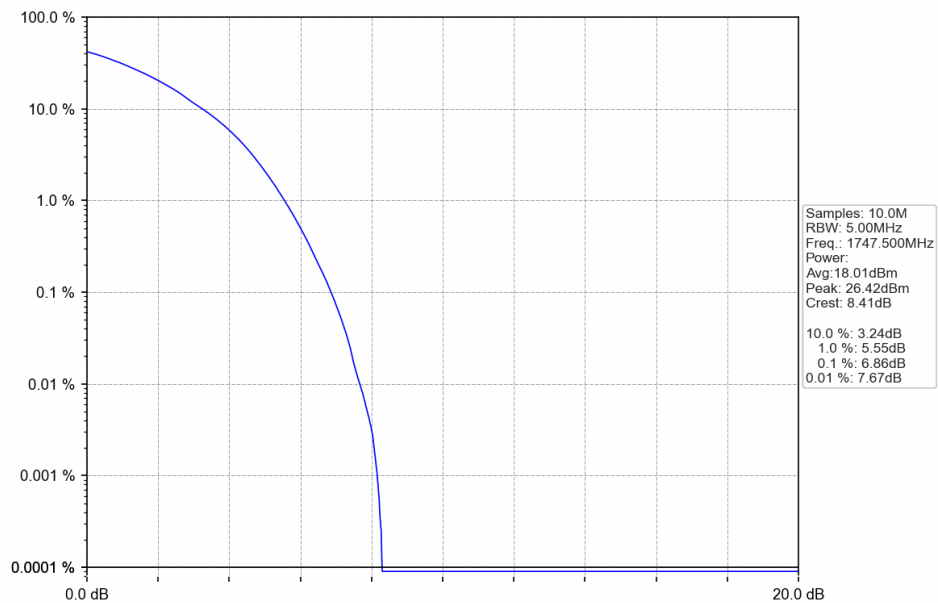




Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV





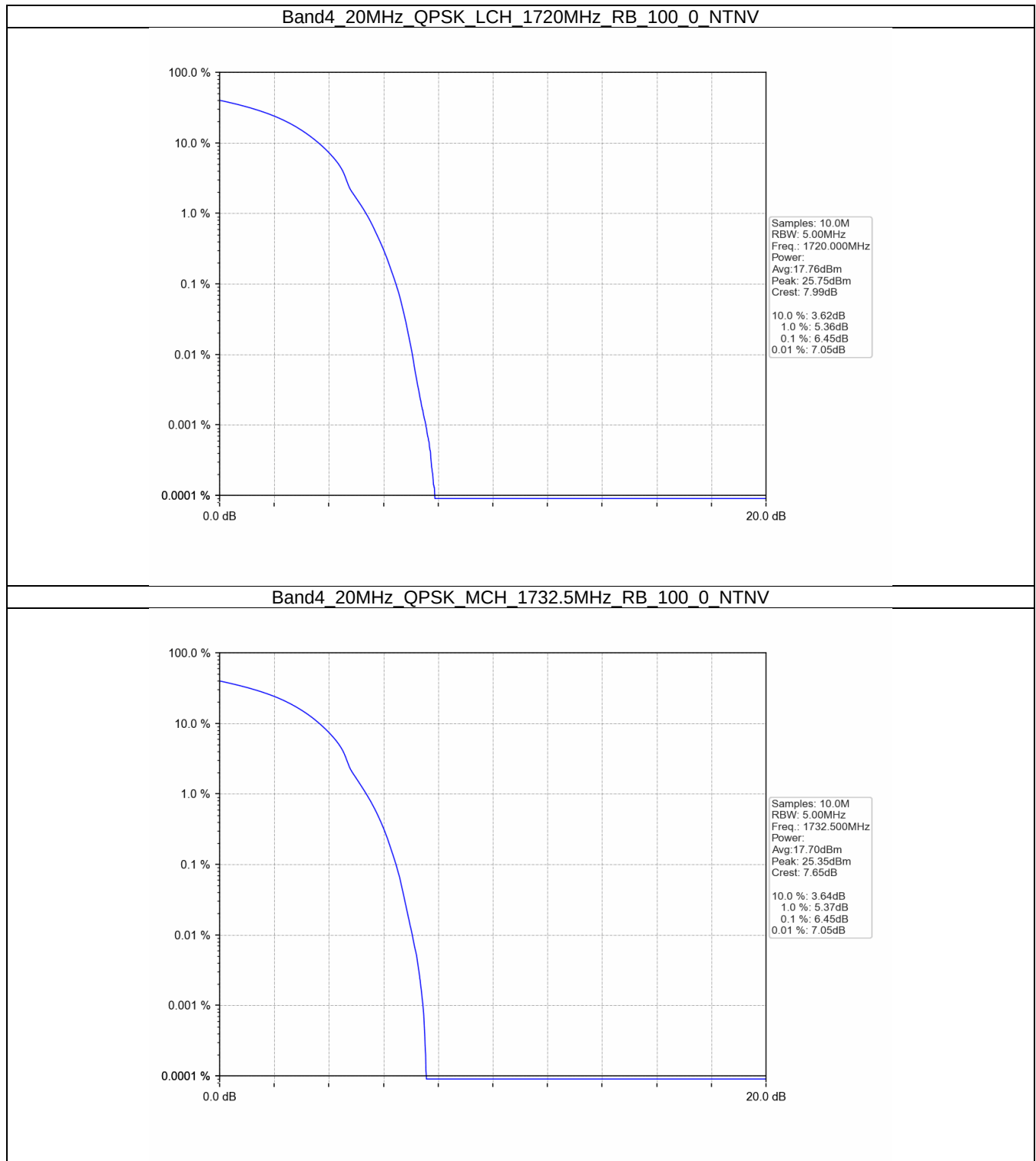
3.7. LTE_B4_20MHz

3.7.1. 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	6.45	<=13	Pass
	1732.5	100	0	6.45	<=13	Pass
	1745	100	0	6.43	<=13	Pass
16QAM	1720	100	0	7.20	<=13	Pass
	1732.5	100	0	7.22	<=13	Pass
	1745	100	0	7.13	<=13	Pass

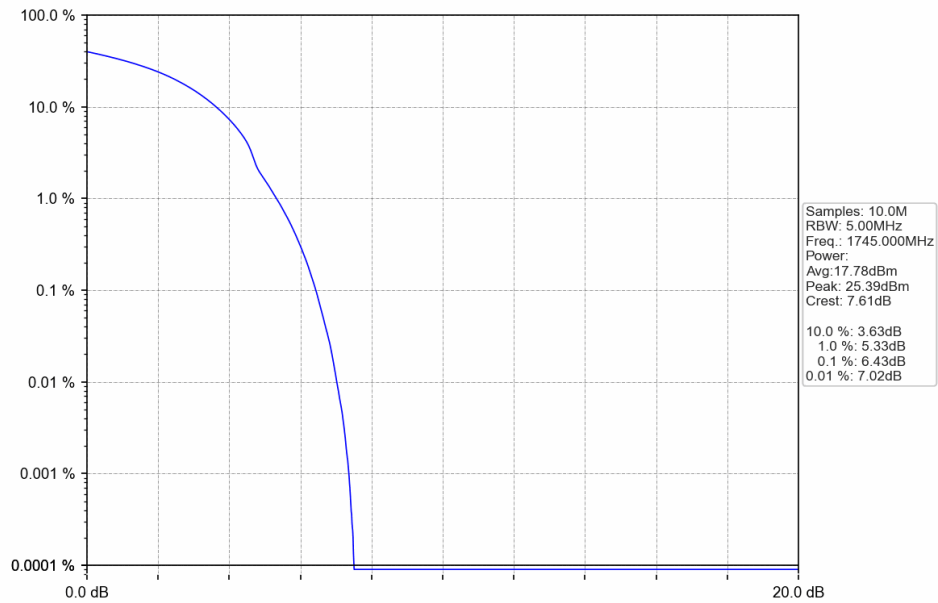


3.7.2. Test Graph

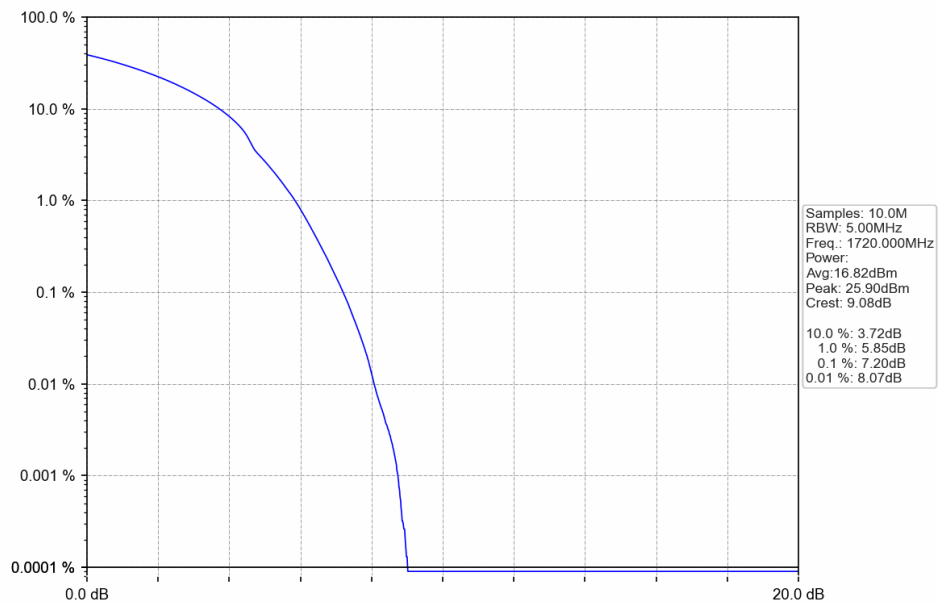




Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV

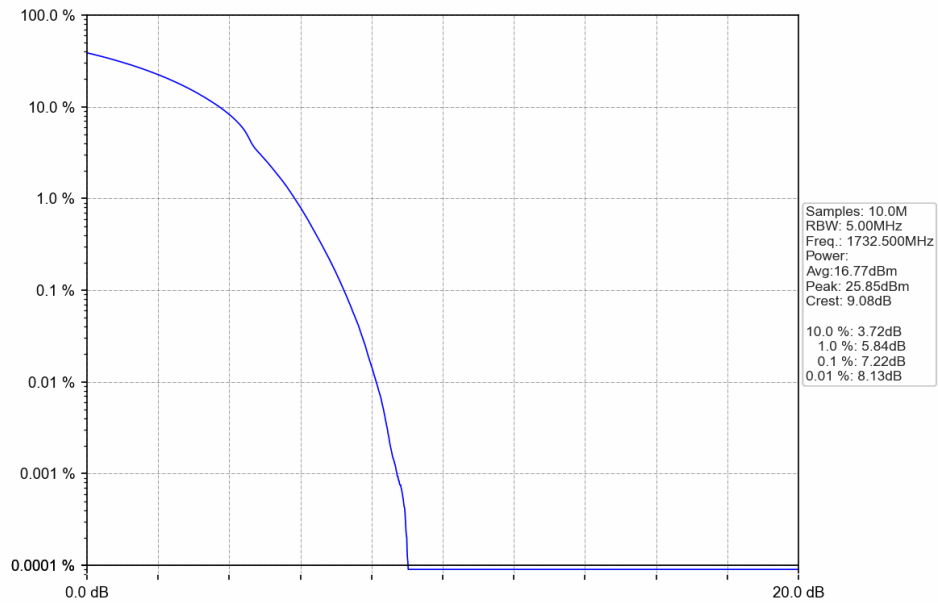


Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV

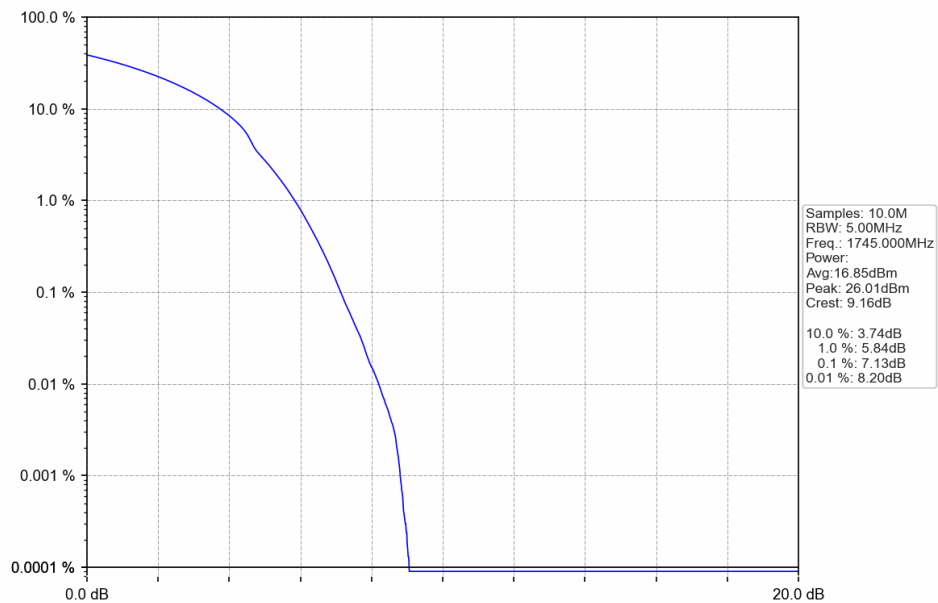




Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



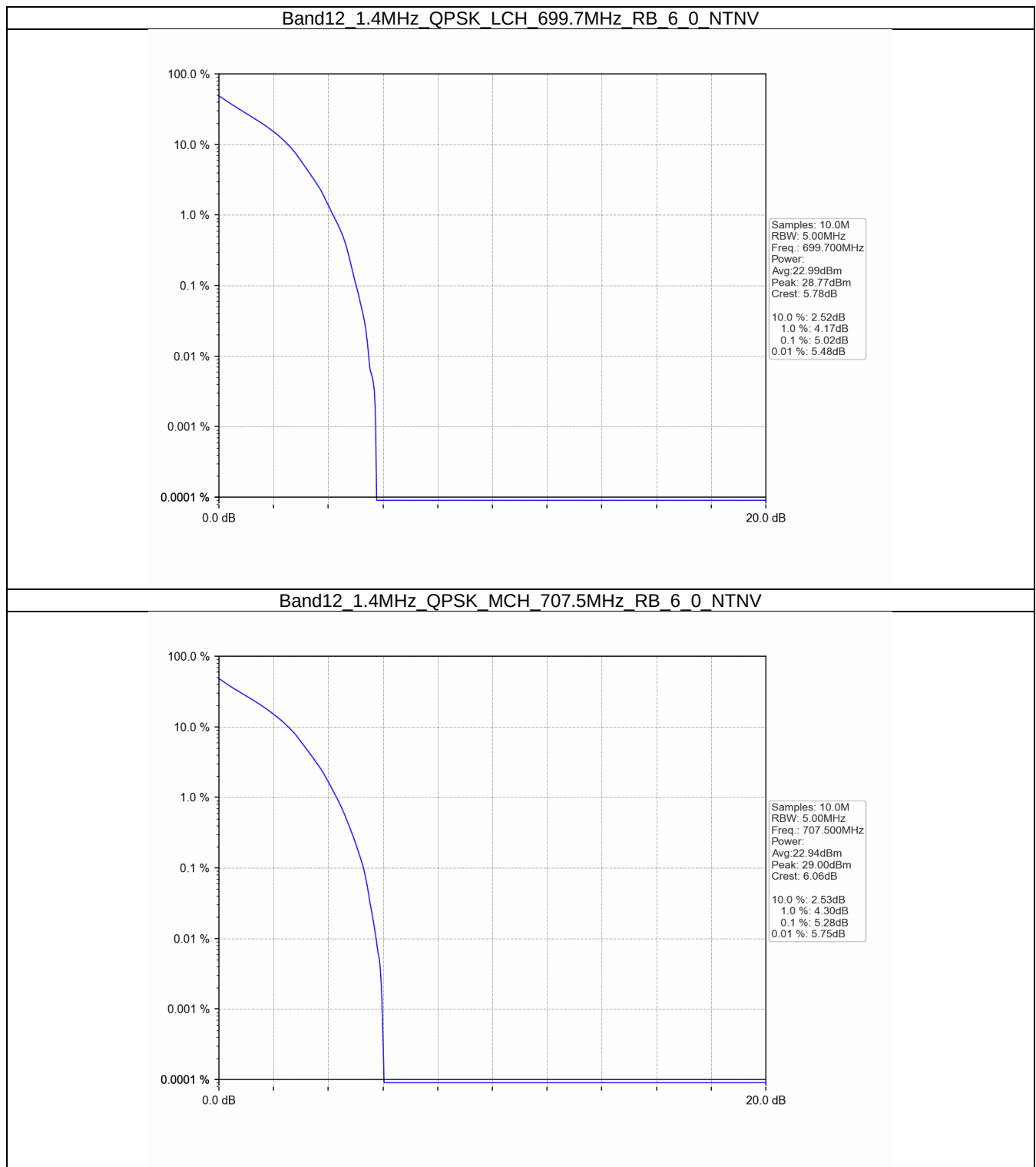
3.8. LTE_B12_1.4MHz

3.8.1. Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.02	<=13	Pass
	707.5	6	0	5.28	<=13	Pass
	715.3	6	0	5.08	<=13	Pass
16QAM	699.7	6	0	5.88	<=13	Pass
	707.5	6	0	6.06	<=13	Pass
	715.3	6	0	5.87	<=13	Pass

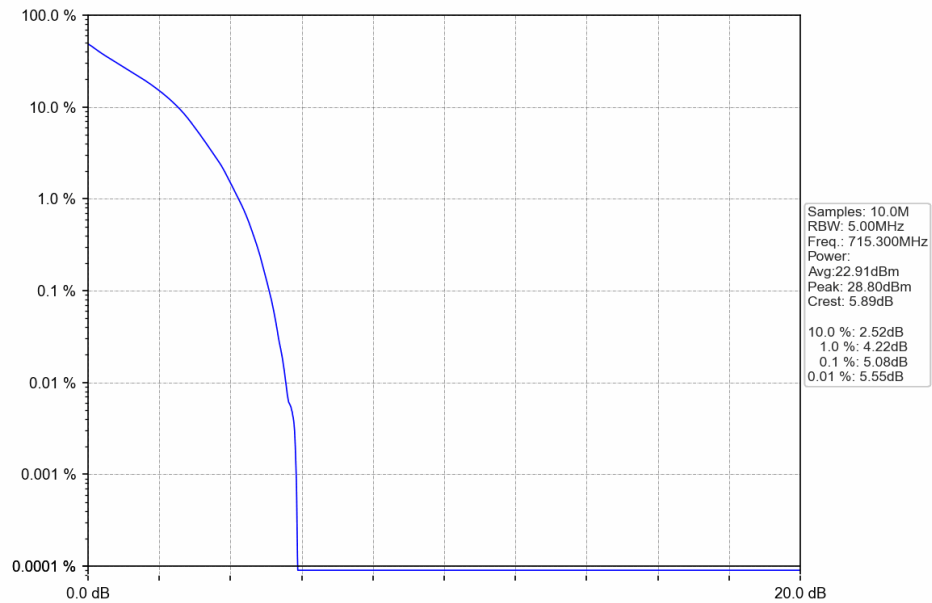


3.8.2. Test Graph

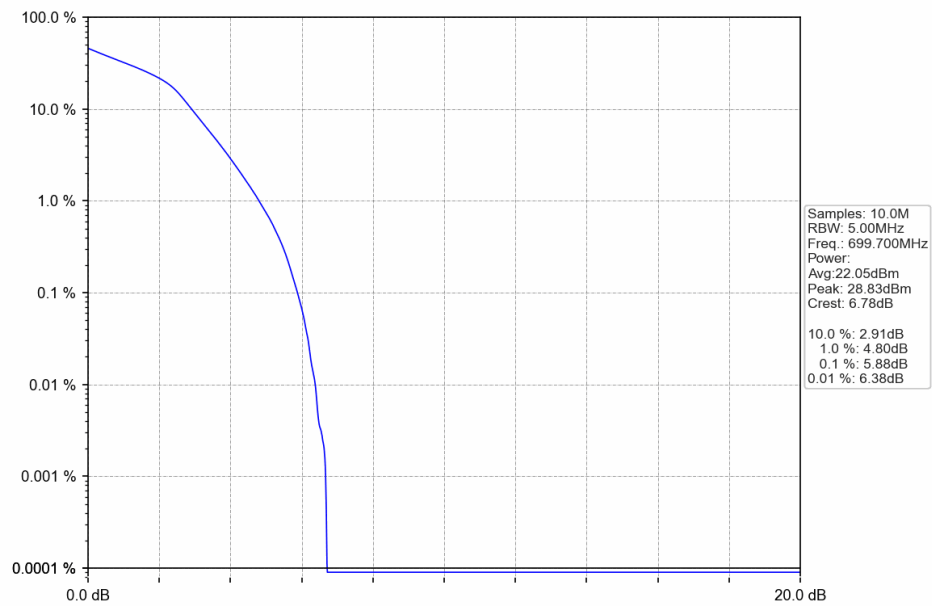




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

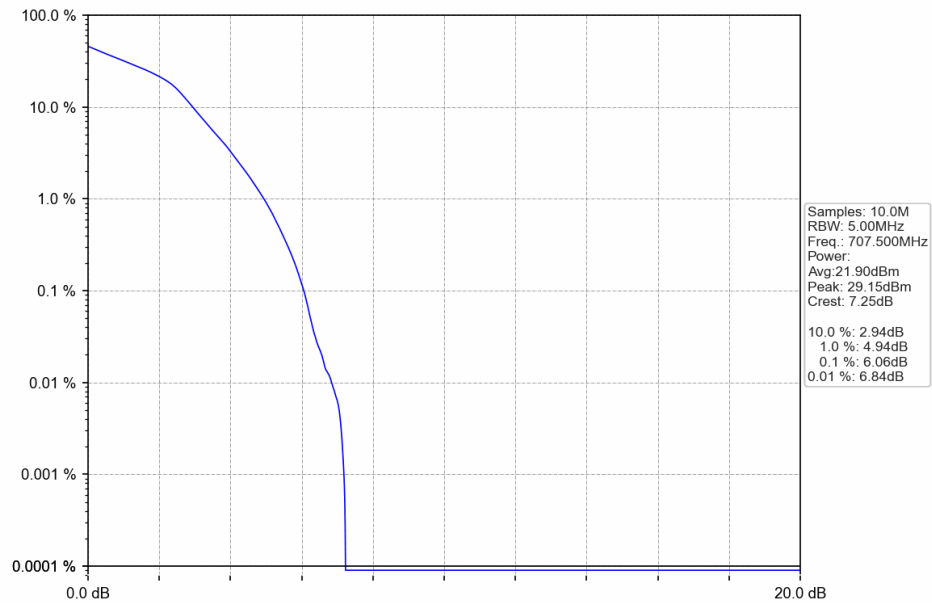


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

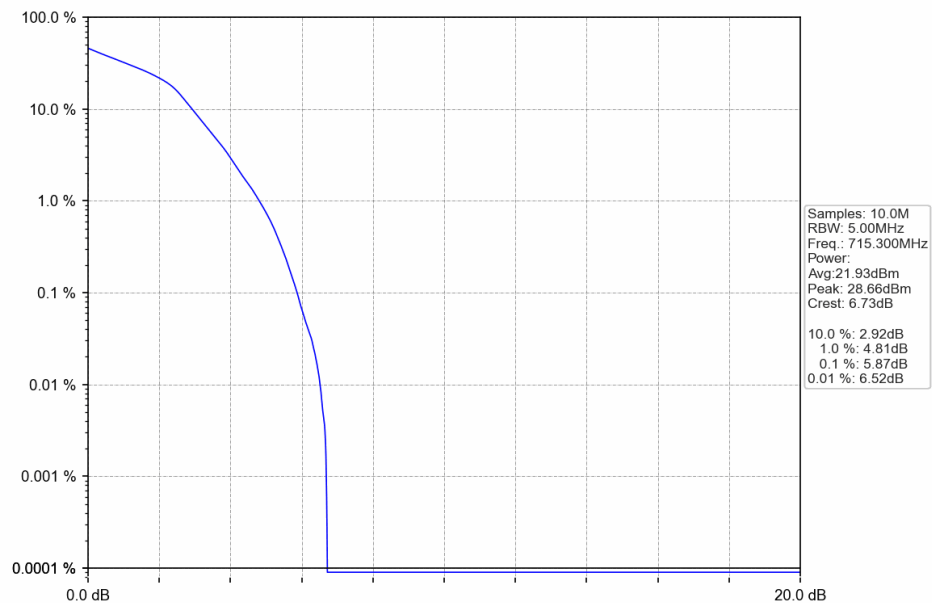




Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV





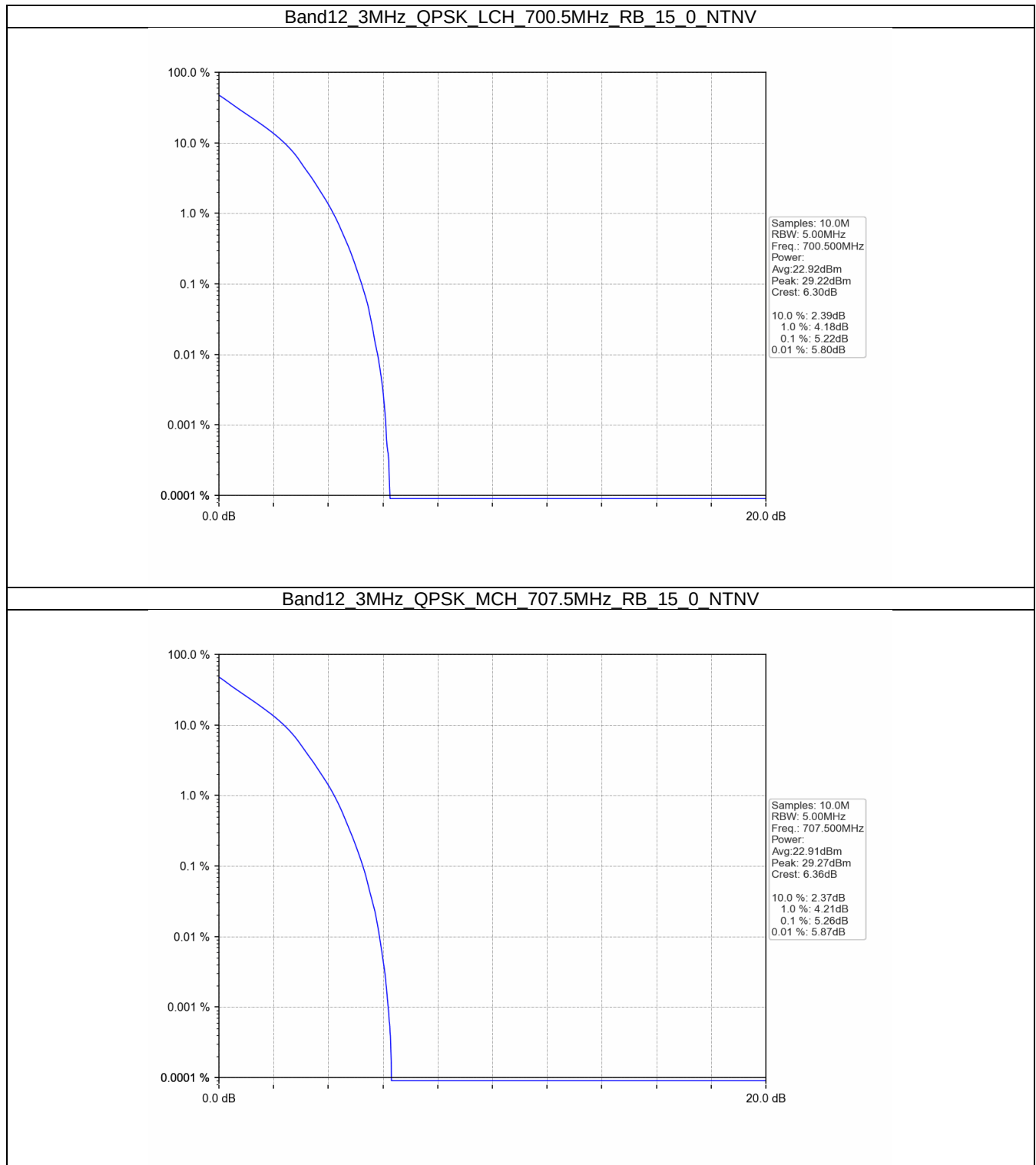
3.9. LTE_B12_3MHz

3.9.1. Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.22	<=13	Pass
	707.5	15	0	5.26	<=13	Pass
	714.5	15	0	5.25	<=13	Pass
16QAM	700.5	15	0	6.03	<=13	Pass
	707.5	15	0	6.08	<=13	Pass
	714.5	15	0	6.06	<=13	Pass

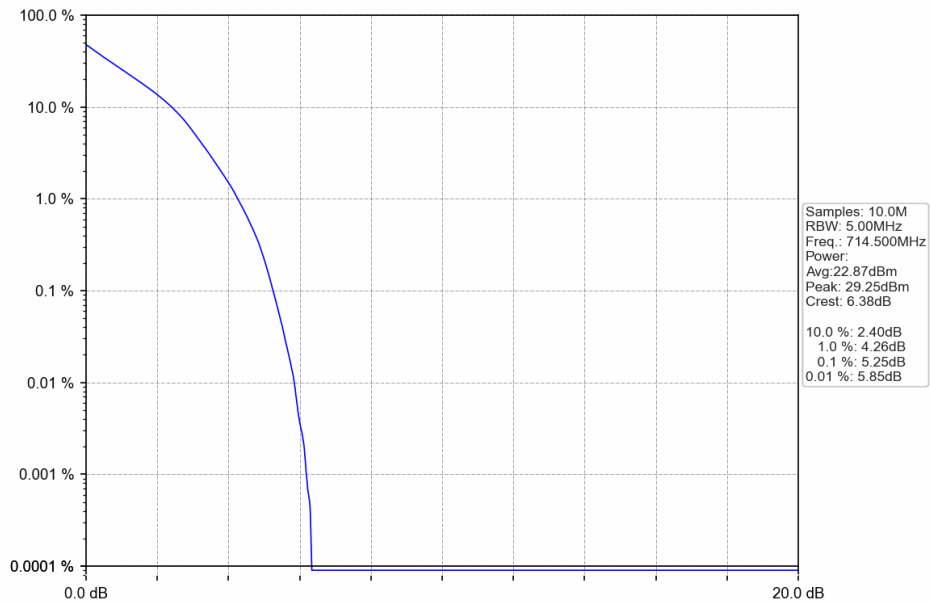


3.9.2. Test Graph

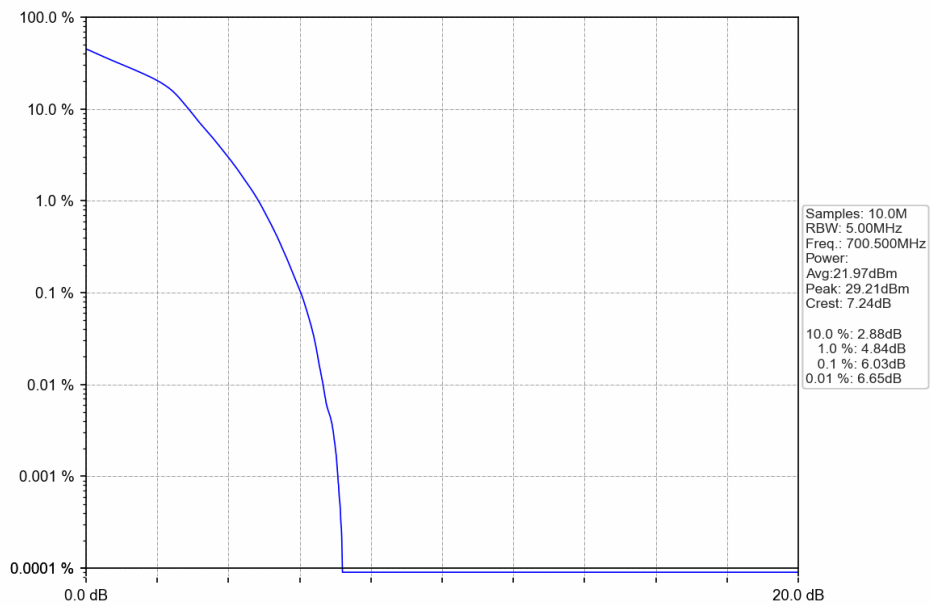




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

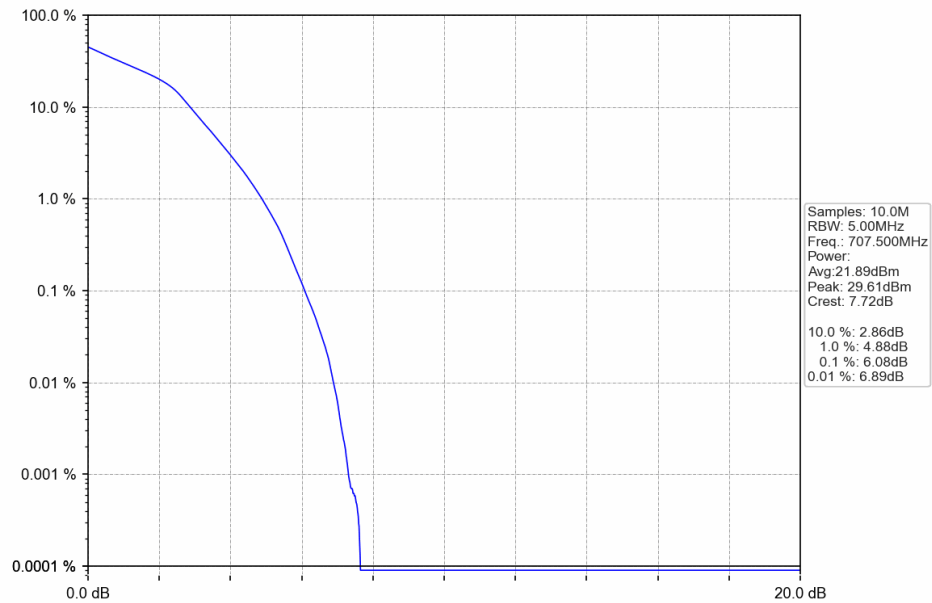


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

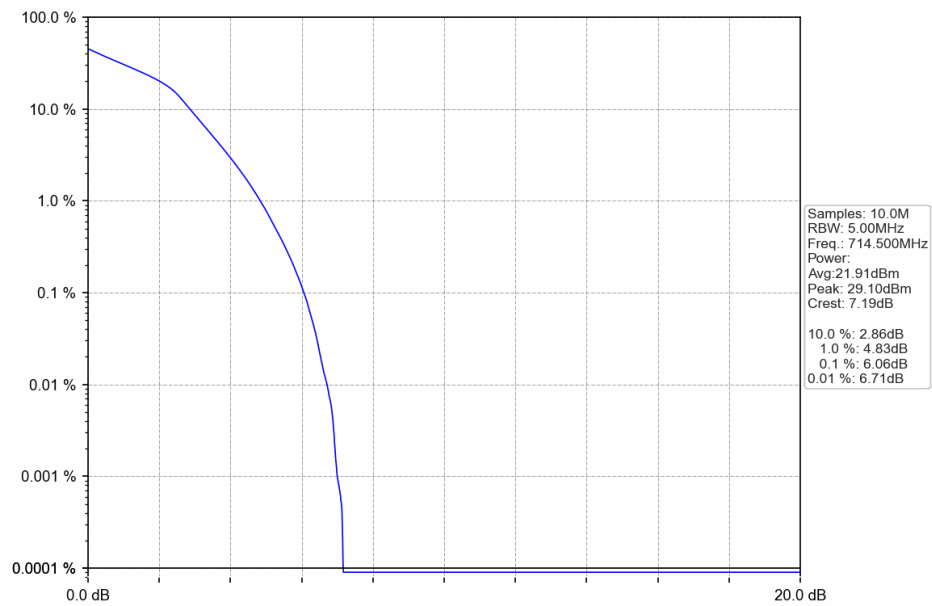




Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



**3.10. LTE_B12_5MHz****3.10.1. Test Result**

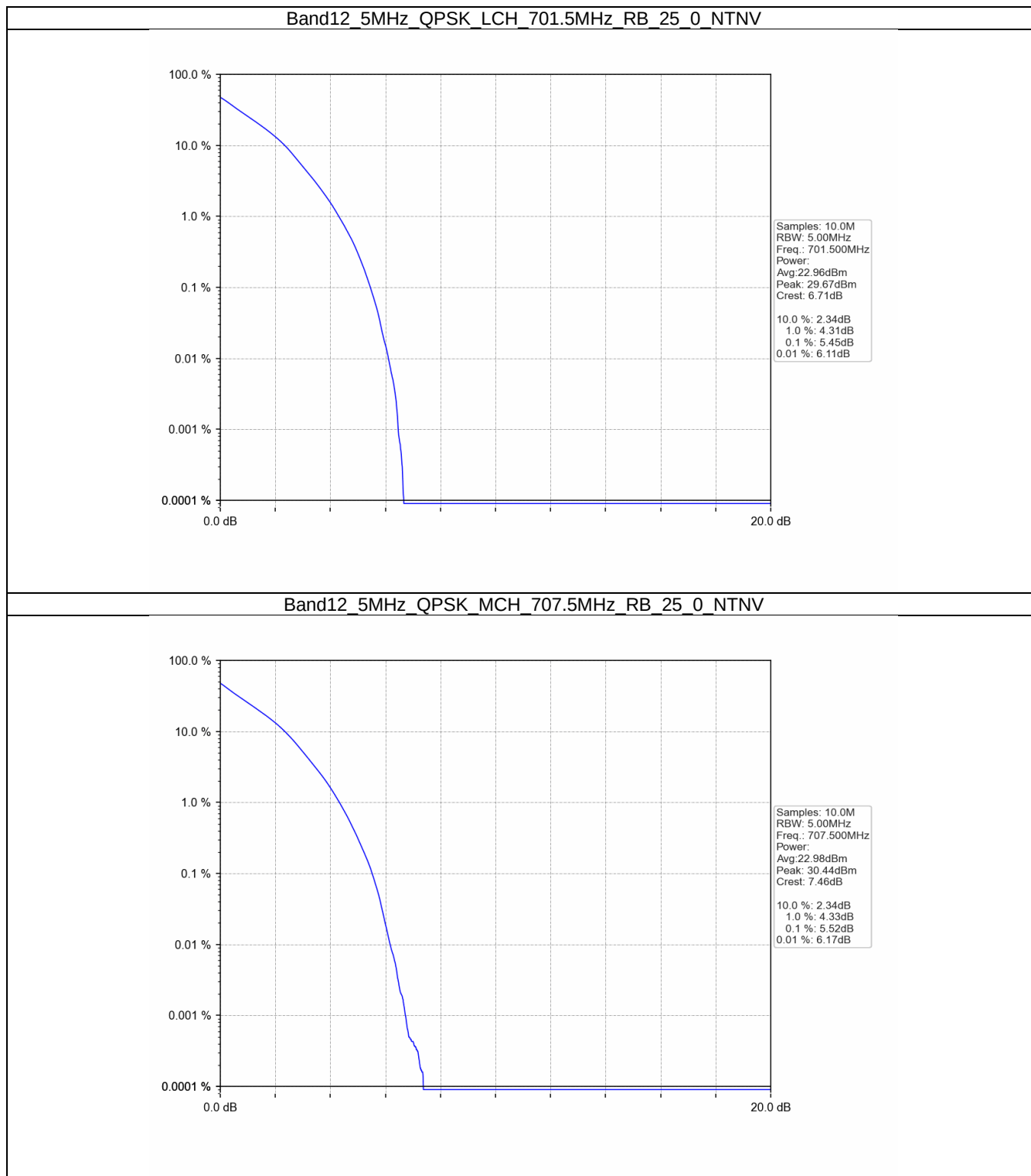
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.45	<=13	Pass
	707.5	25	0	5.52	<=13	Pass
	713.5	25	0	5.42	<=13	Pass
16QAM	701.5	25	0	6.13	<=13	Pass
	707.5	25	0	6.16	<=13	Pass
	713.5	25	0	6.16	<=13	Pass



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Test Report No.: W7L-P21090022RF06

3.10.2. Test Graph



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Avenue, North Area, Hi-Tech Industrial Park, Nanshan
District, Shenzhen, Guangdong, China

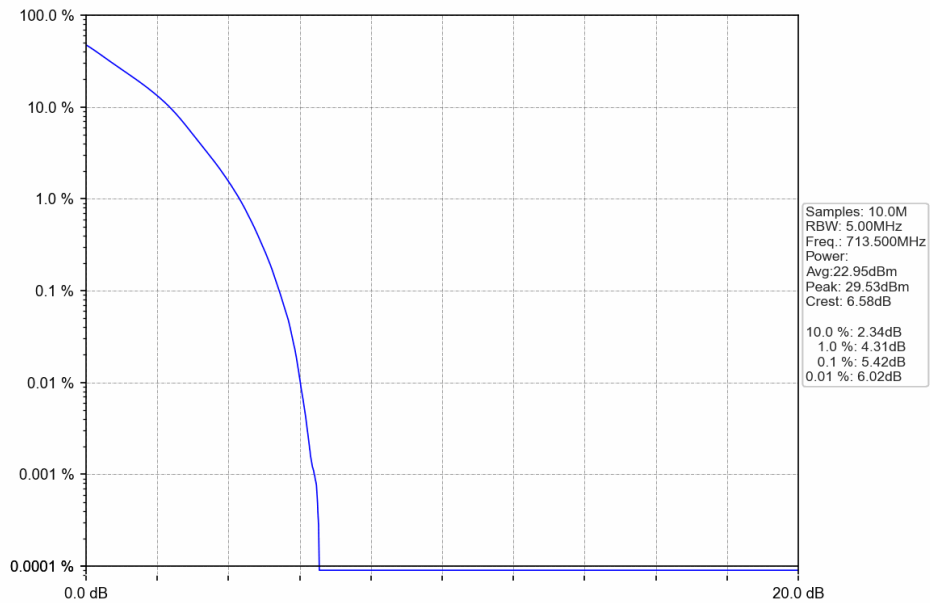
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577

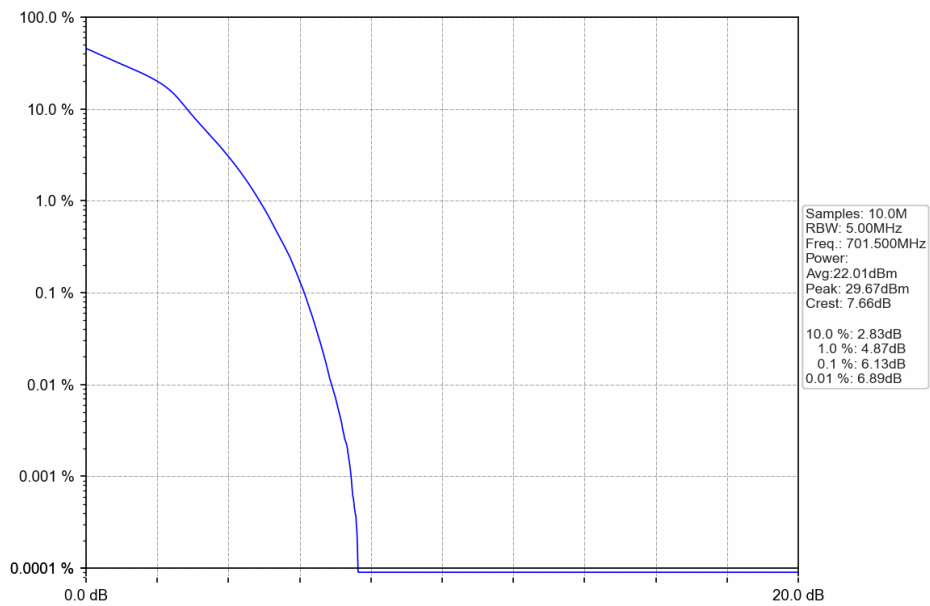
Email: customerservice.sw@bureauveritas.com



Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

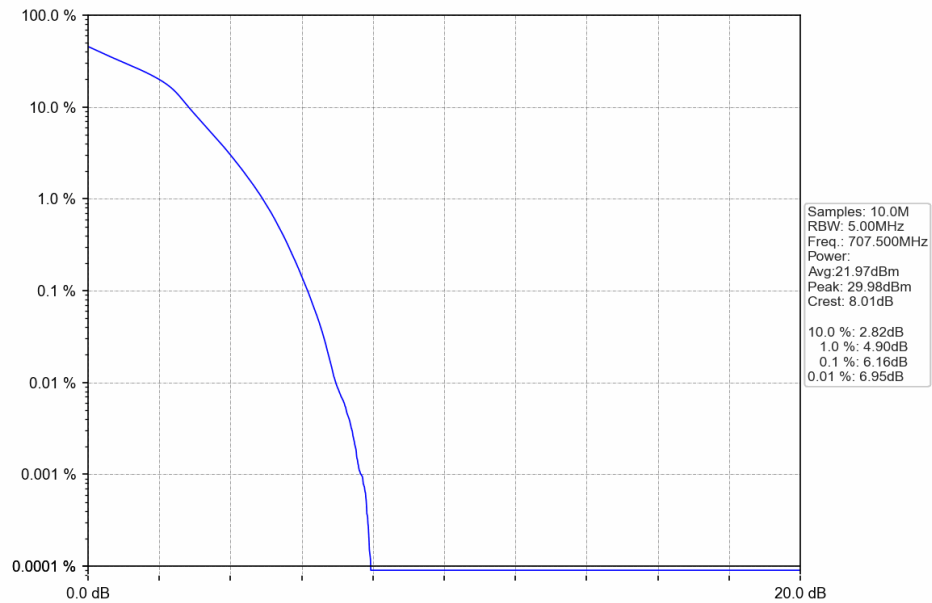


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

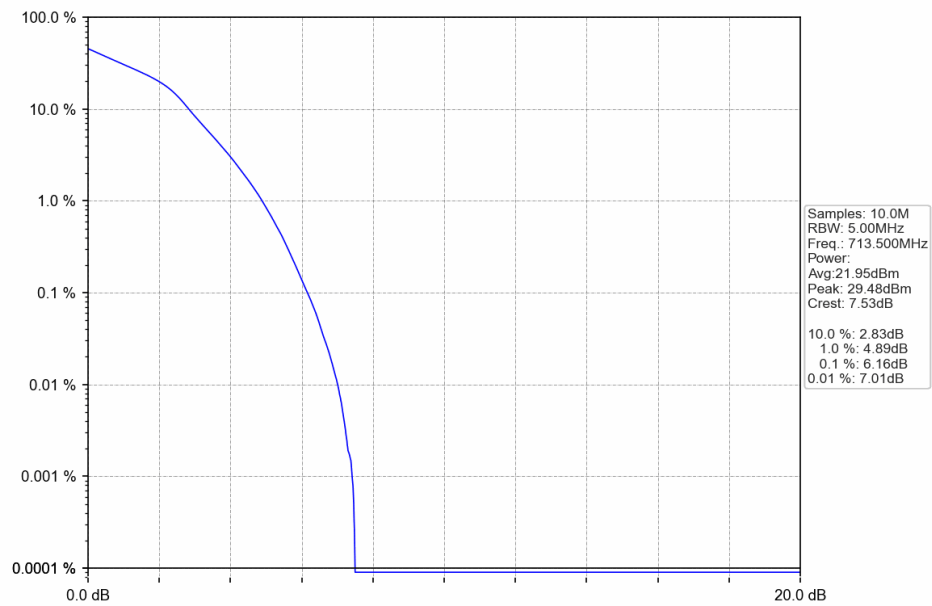




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



**3.11. LTE_B12_10MHz****3.11.1. Test Result**

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.68	<=13	Pass
	707.5	50	0	4.69	<=13	Pass
	711	50	0	4.56	<=13	Pass
16QAM	704	50	0	6.06	<=13	Pass
	707.5	50	0	6.01	<=13	Pass
	711	50	0	6.04	<=13	Pass

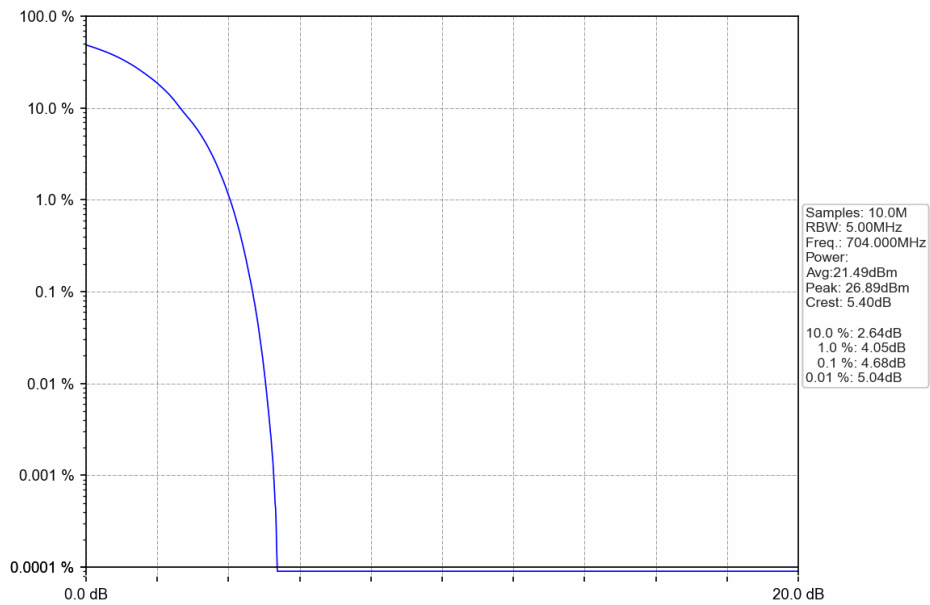


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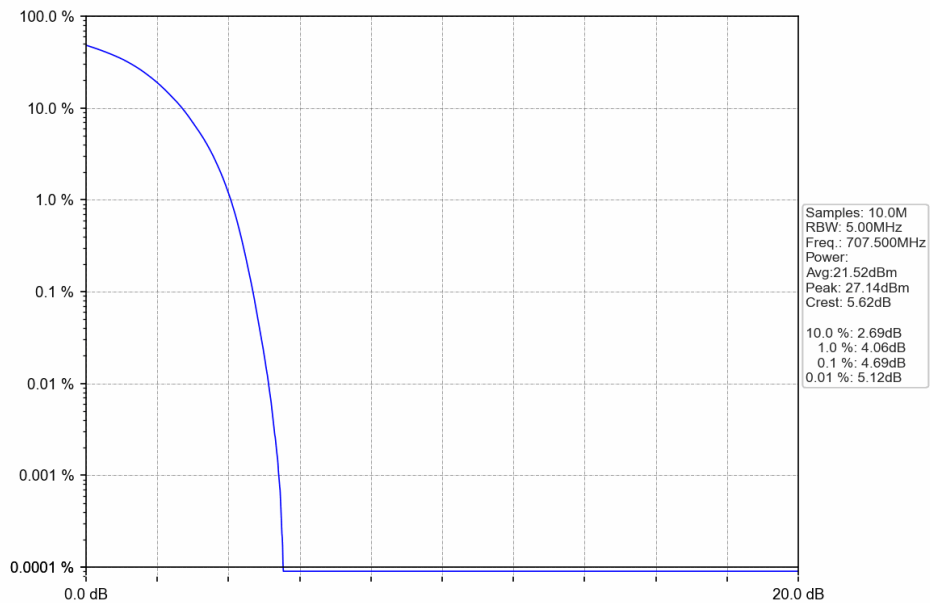
Test Report No.: W7L-P21090022RF06

3.11.2. Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



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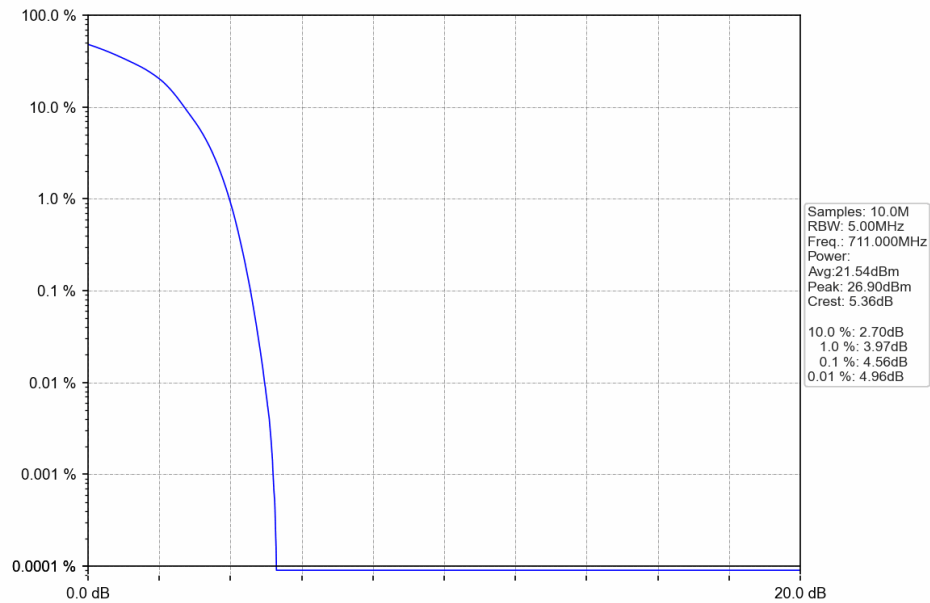
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

