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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 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	6.05	<=13	Pass
	1732.5	6	0	6.03	<=13	Pass
	1754.3	6	0	6.05	<=13	Pass
16QAM	1710.7	6	0	6.60	<=13	Pass
	1732.5	6	0	6.77	<=13	Pass
	1754.3	6	0	6.60	<=13	Pass
64QAM	1710.7	6	0	6.25	<=13	Pass
	1732.5	6	0	6.34	<=13	Pass
	1754.3	6	0	6.46	<=13	Pass
256QAM	1710.7	6	0	6.80	<=13	Pass
	1732.5	6	0	6.86	<=13	Pass
	1754.3	6	0	6.99	<=13	Pass



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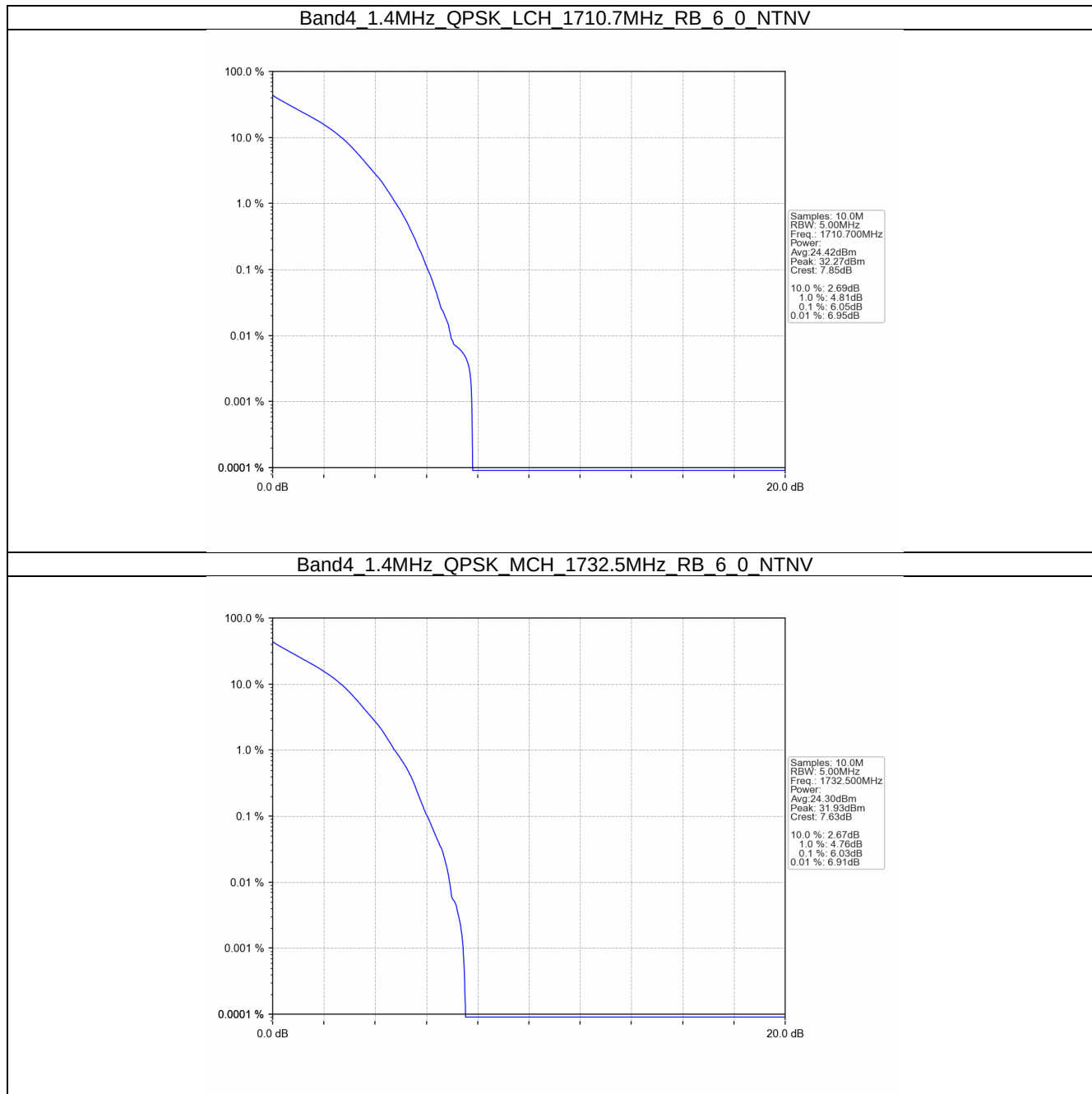
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4.1.2 Test Graph



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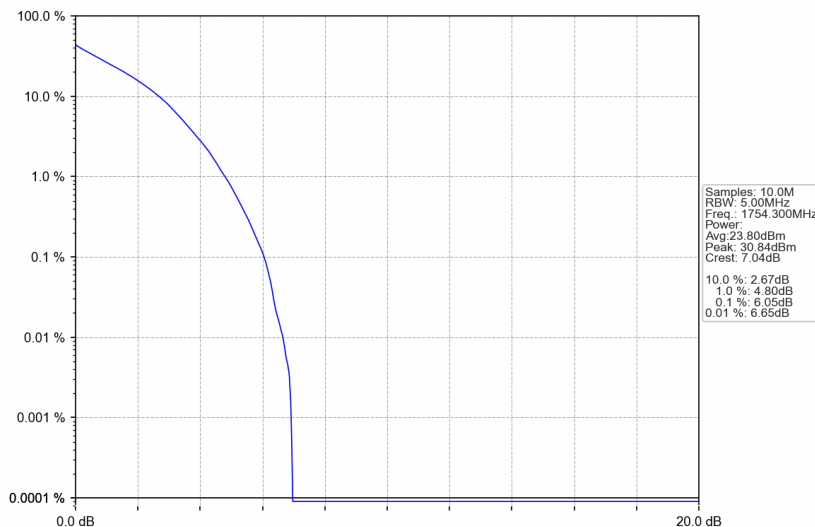
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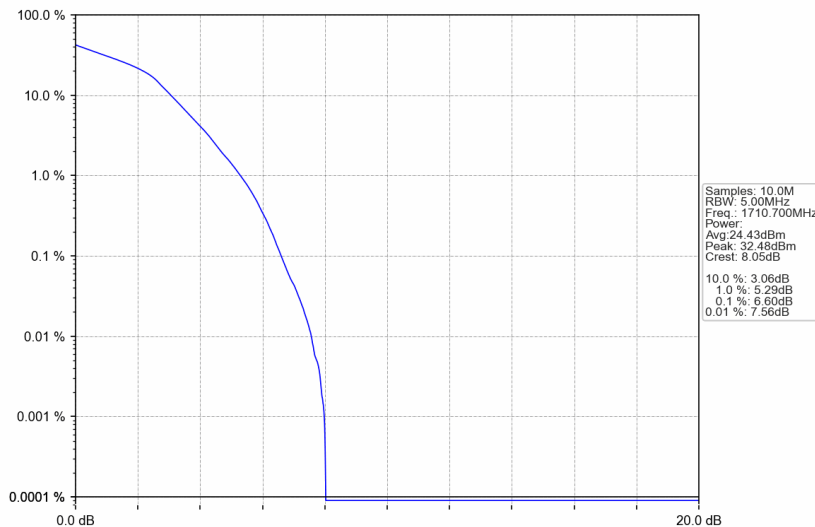
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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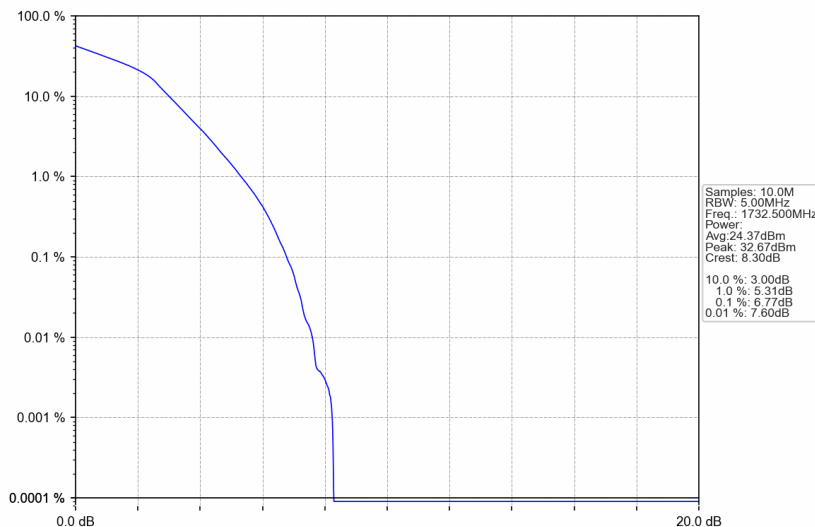
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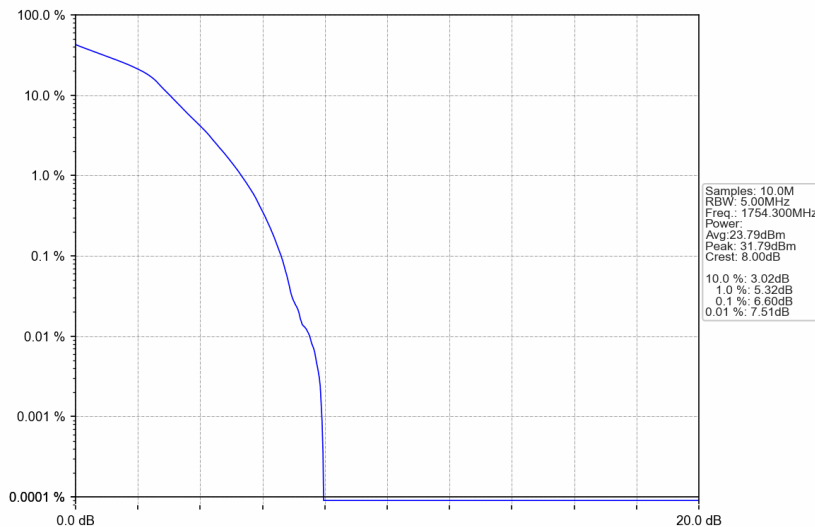
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Band4 1.4MHz 16QAM MCH 1732.5MHz_RB_6_0_NTNV



Band4 1.4MHz 16QAM HCH 1754.3MHz_RB_6_0_NTNV



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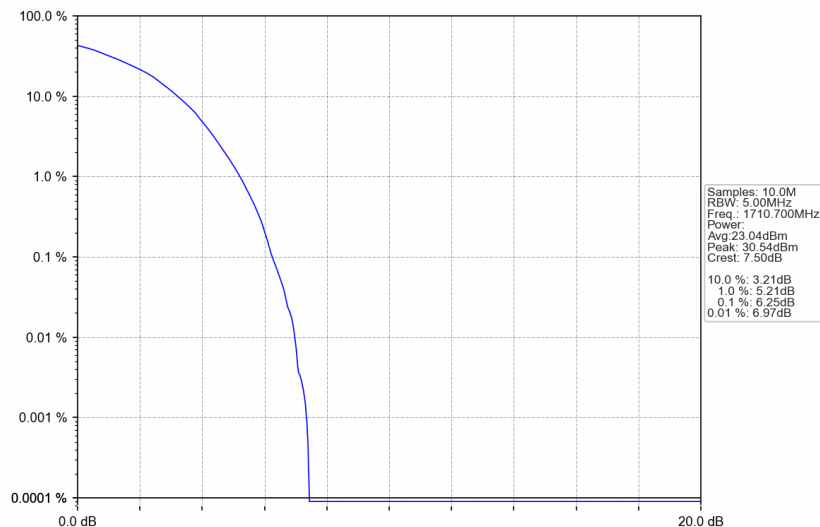
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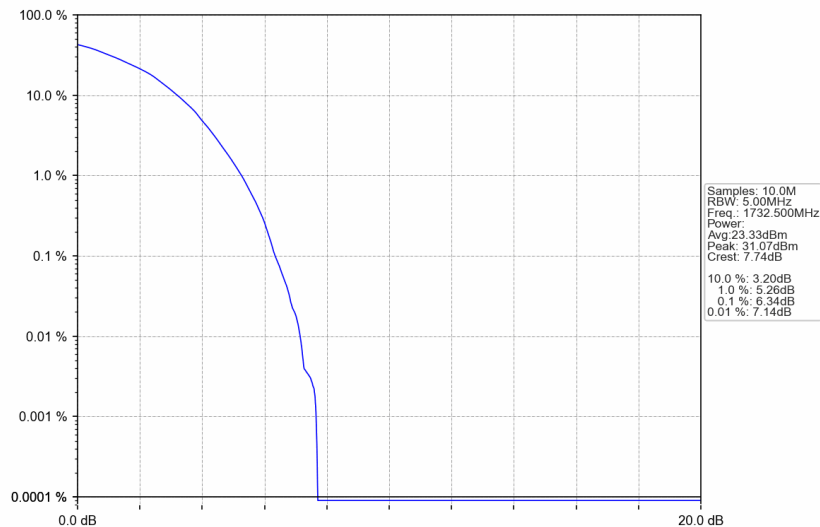
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Band4 1.4MHz 64QAM LCH 1710.7MHz RB 6 0 NTN



Band4 1.4MHz 64QAM MCH 1732.5MHz RB 6 0 NTN



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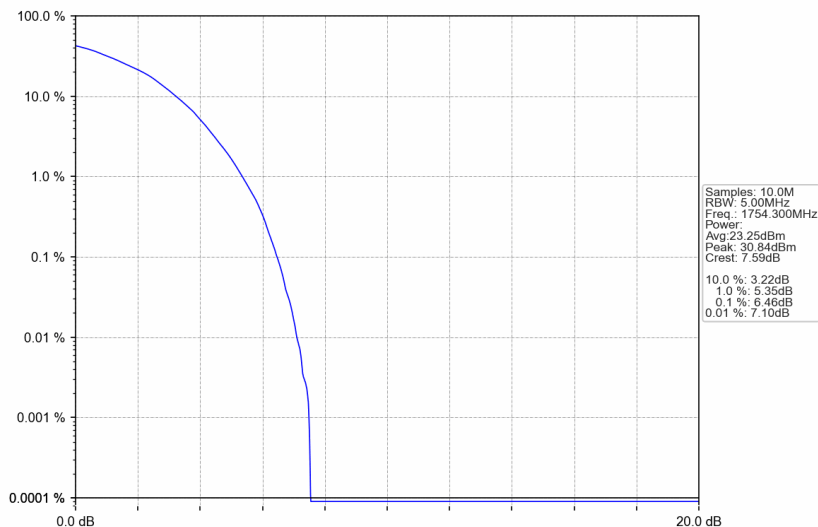
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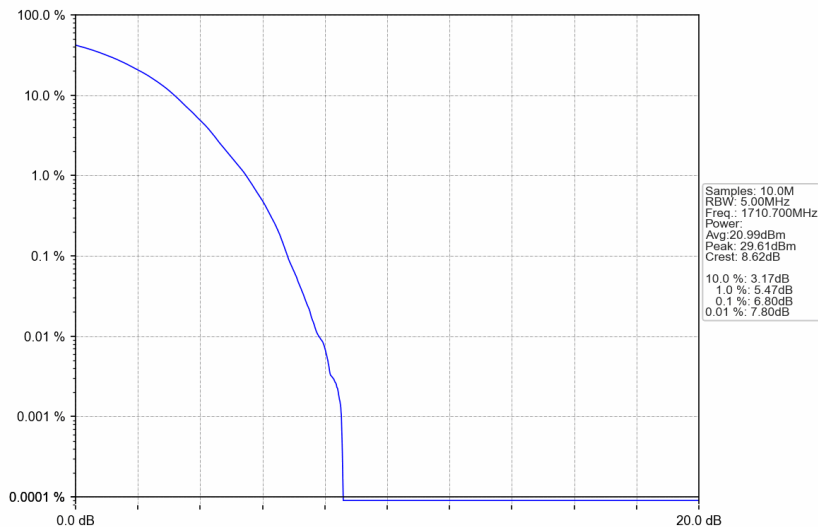
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Band4 1.4MHz 64QAM HCH 1754.3MHz RB 6 0 NTN



Band4 1.4MHz 256QAM LCH 1710.7MHz RB 6 0 NTN



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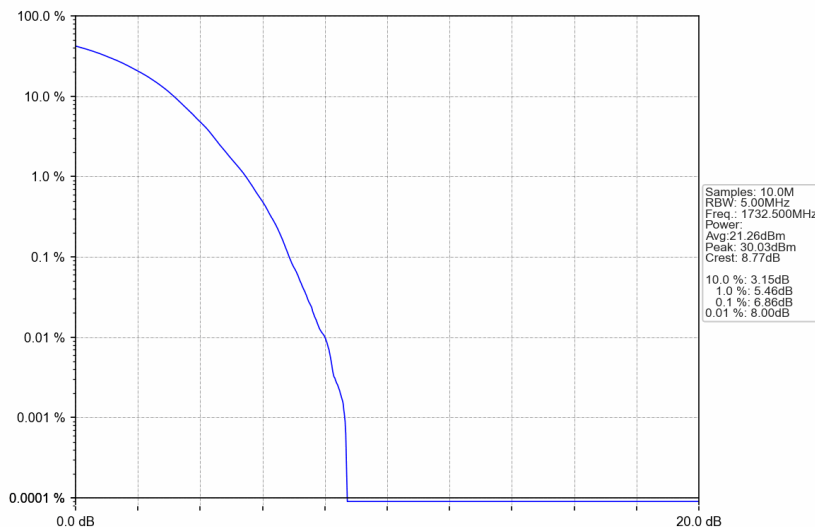
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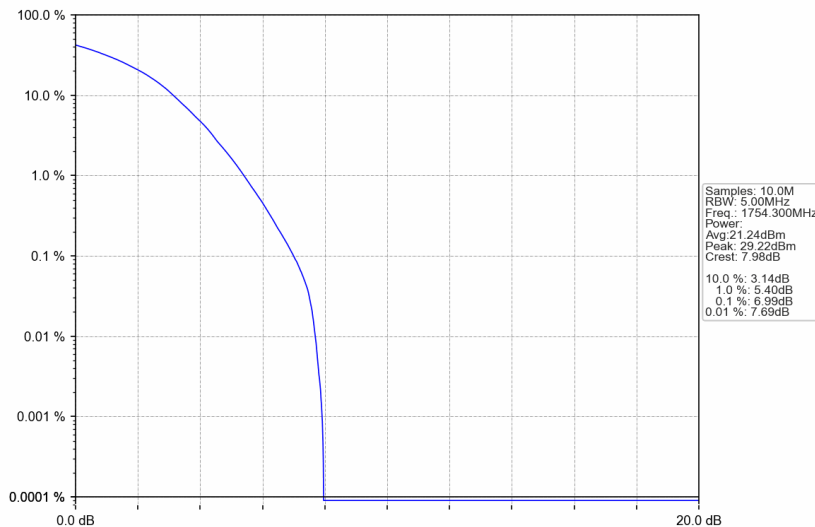
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Band4_1.4MHz_256QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_256QAM_HCH_1754.3MHz_RB_6_0_NTNV



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4.2 B4_3MHz

4.2.1 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	6.06	<=13	Pass
	1732.5	15	0	5.99	<=13	Pass
	1753.5	15	0	5.95	<=13	Pass
16QAM	1711.5	15	0	6.74	<=13	Pass
	1732.5	15	0	6.74	<=13	Pass
	1753.5	15	0	6.63	<=13	Pass
64QAM	1711.5	15	0	6.59	<=13	Pass
	1732.5	15	0	6.62	<=13	Pass
	1753.5	15	0	6.51	<=13	Pass
256QAM	1711.5	15	0	7.00	<=13	Pass
	1732.5	15	0	6.92	<=13	Pass
	1753.5	15	0	6.85	<=13	Pass



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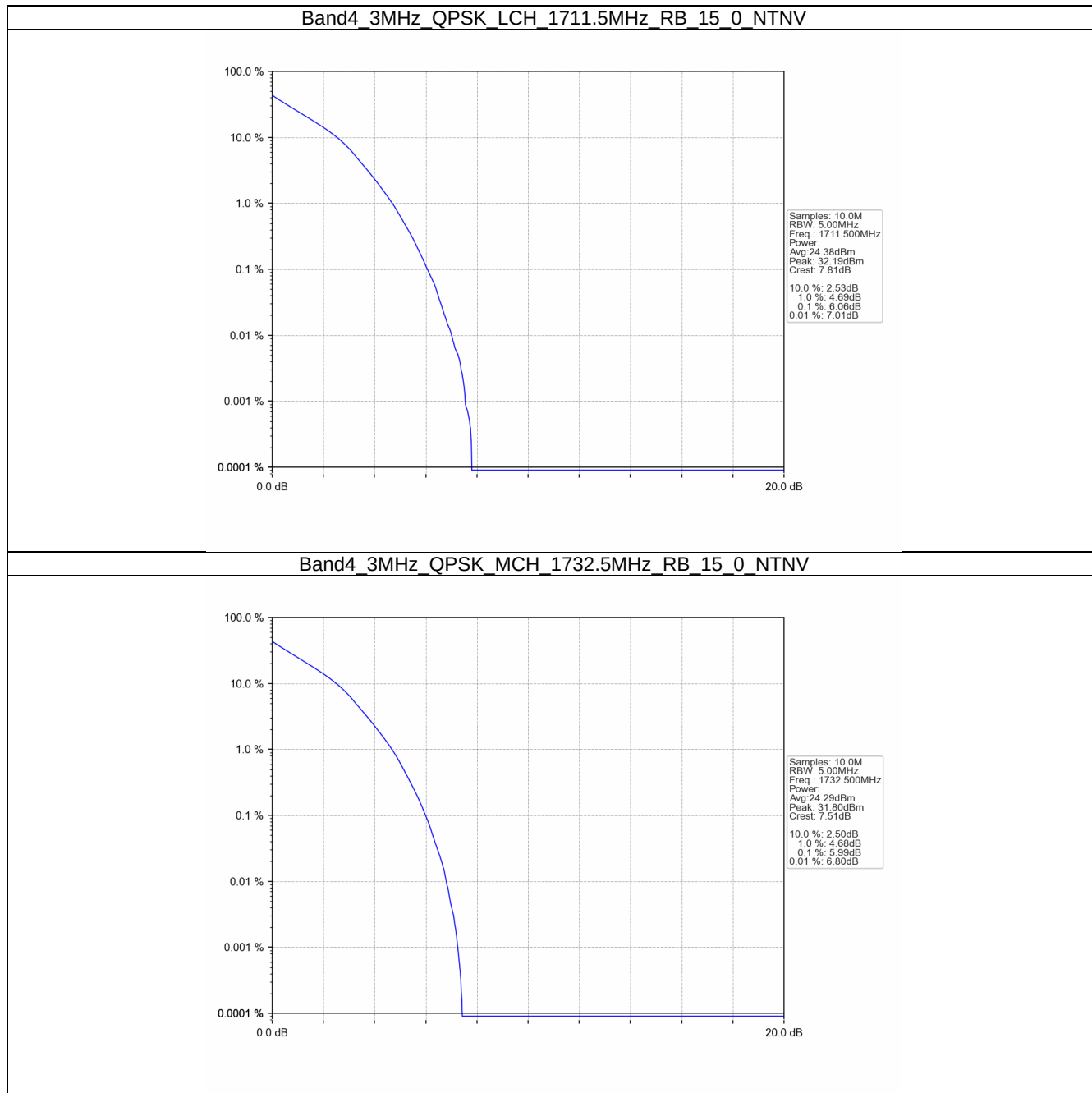
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4.2.2 Test Graph



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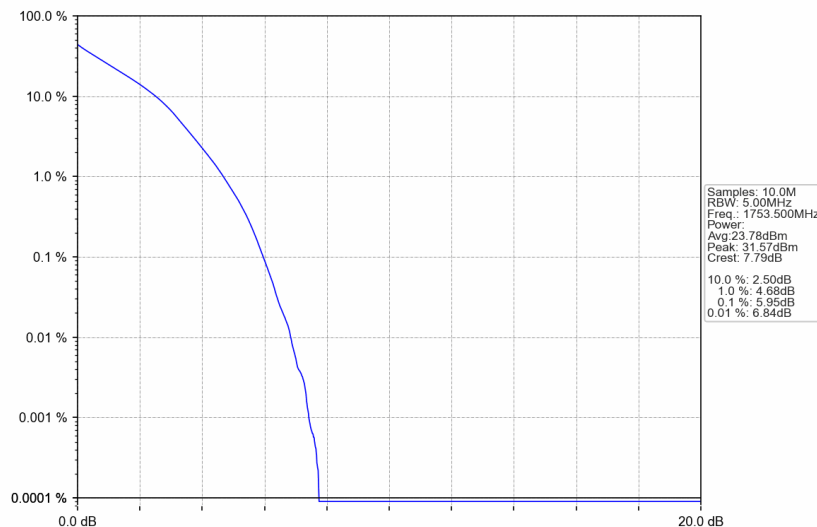
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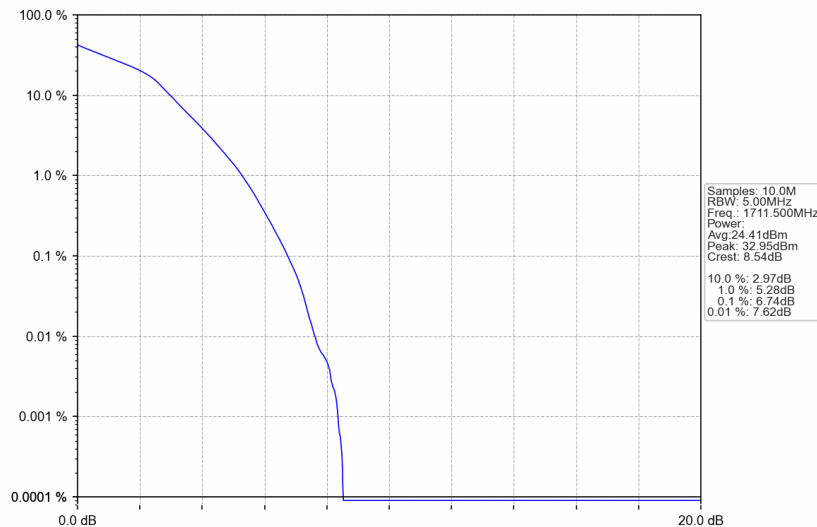
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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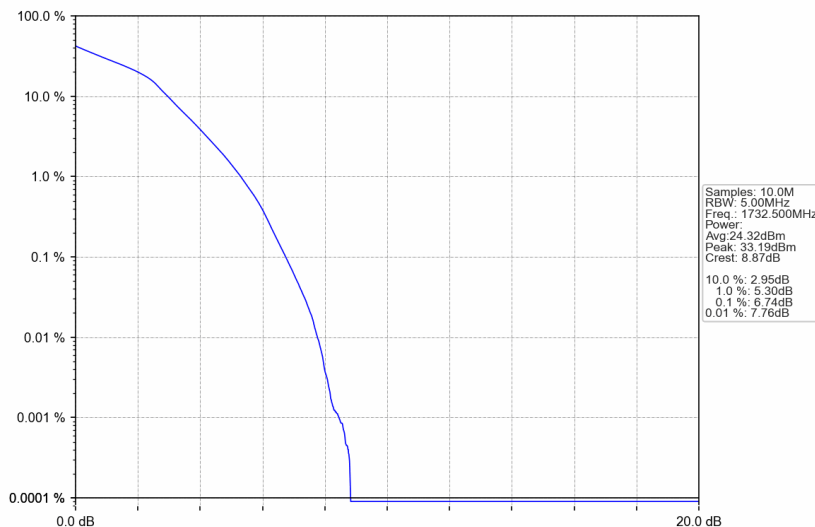
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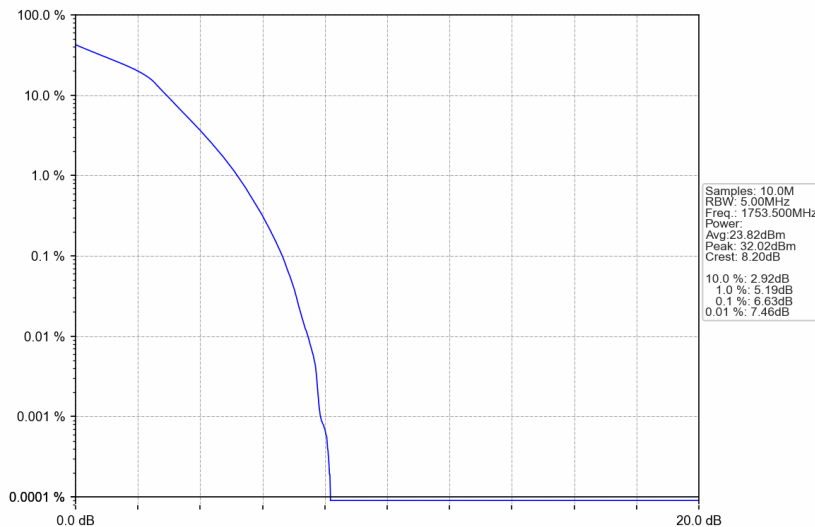
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



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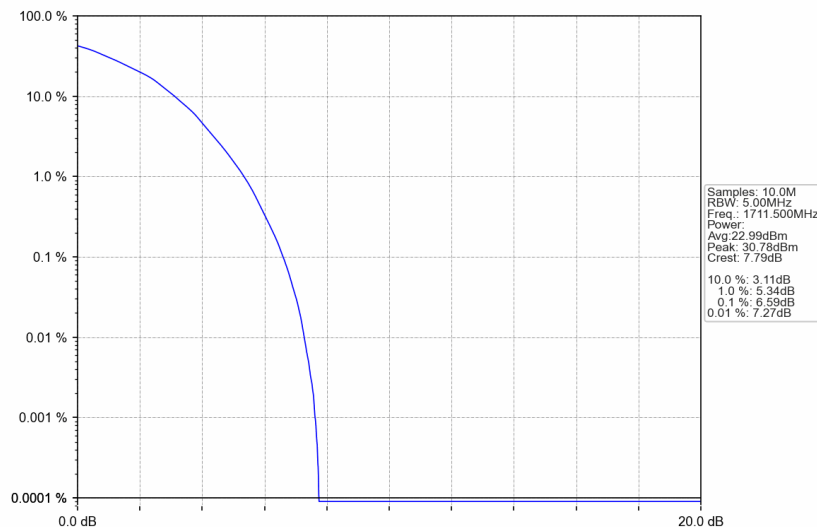
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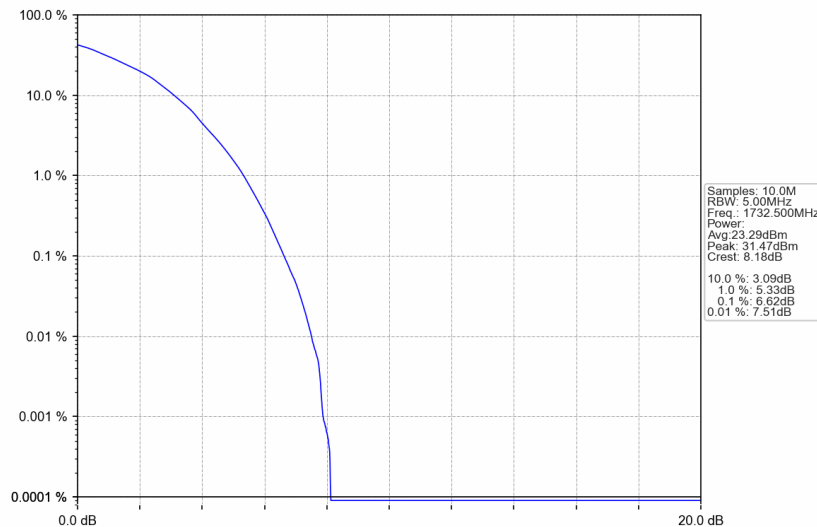
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Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV



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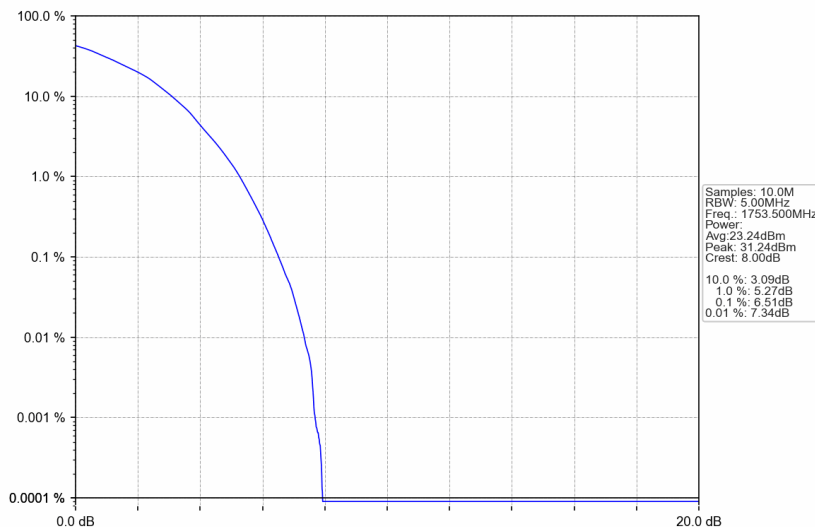
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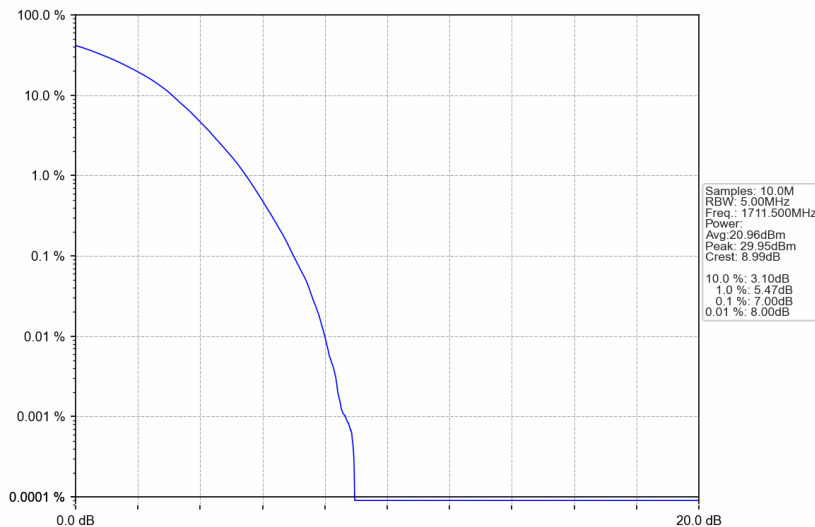
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Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_256QAM_LCH_1711.5MHz_RB_15_0_NTNV



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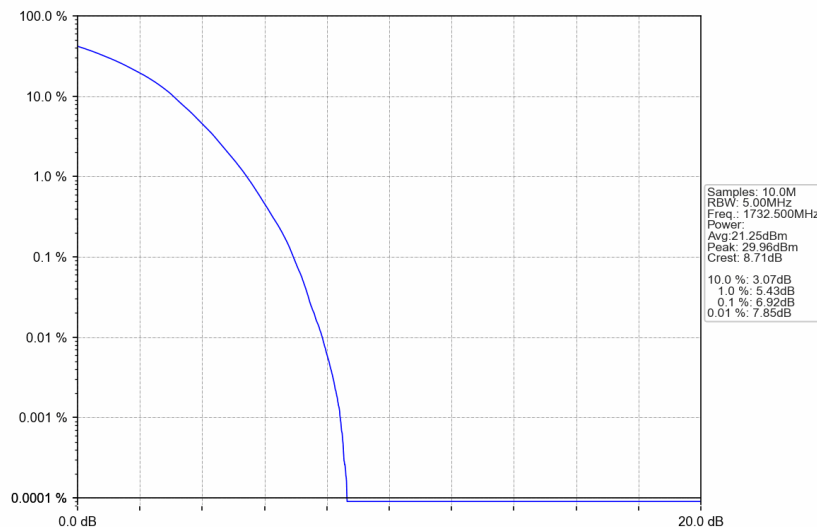
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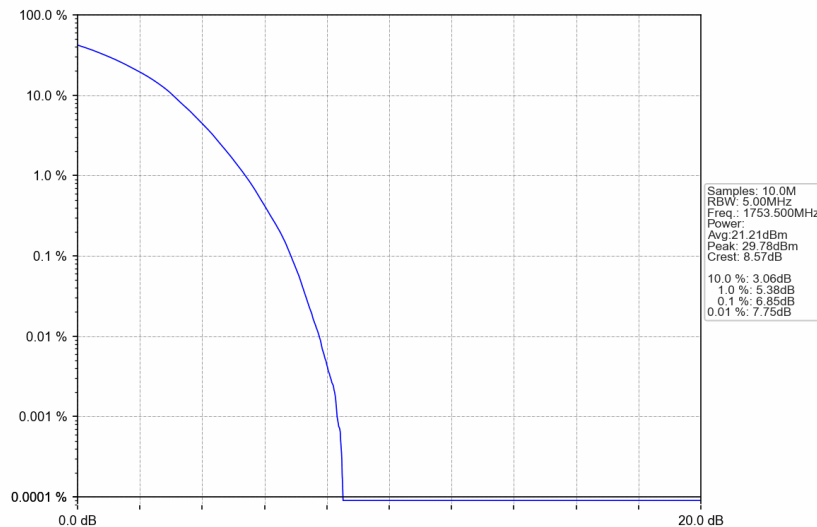
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Band4_3MHz_256QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV



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4.3 B4_5MHz

4.3.1 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	5.96	<=13	Pass
	1732.5	25	0	5.98	<=13	Pass
	1752.5	25	0	5.87	<=13	Pass
16QAM	1712.5	25	0	6.54	<=13	Pass
	1732.5	25	0	6.60	<=13	Pass
	1752.5	25	0	6.52	<=13	Pass
64QAM	1712.5	25	0	6.58	<=13	Pass
	1732.5	25	0	6.62	<=13	Pass
	1752.5	25	0	6.53	<=13	Pass
256QAM	1712.5	25	0	6.95	<=13	Pass
	1732.5	25	0	6.95	<=13	Pass
	1752.5	25	0	6.91	<=13	Pass



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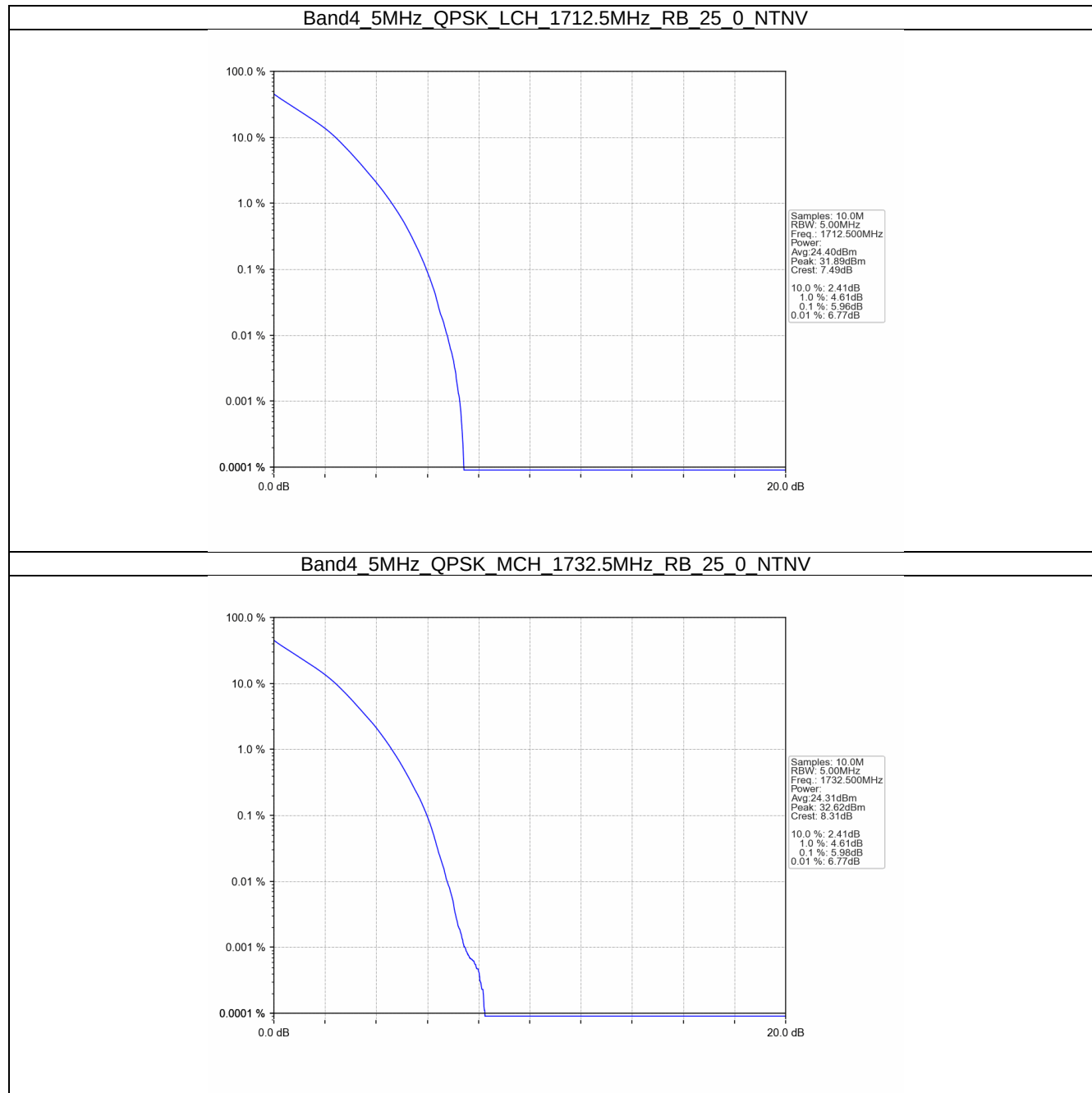
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4.3.2 Test Graph



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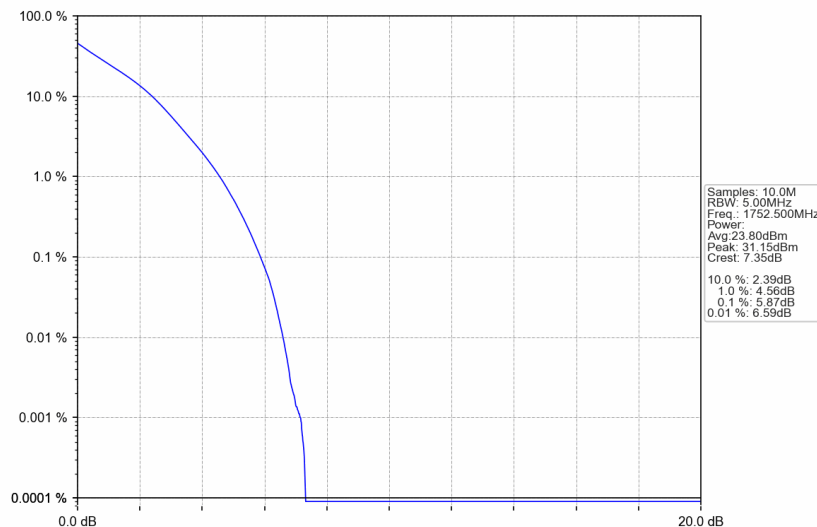
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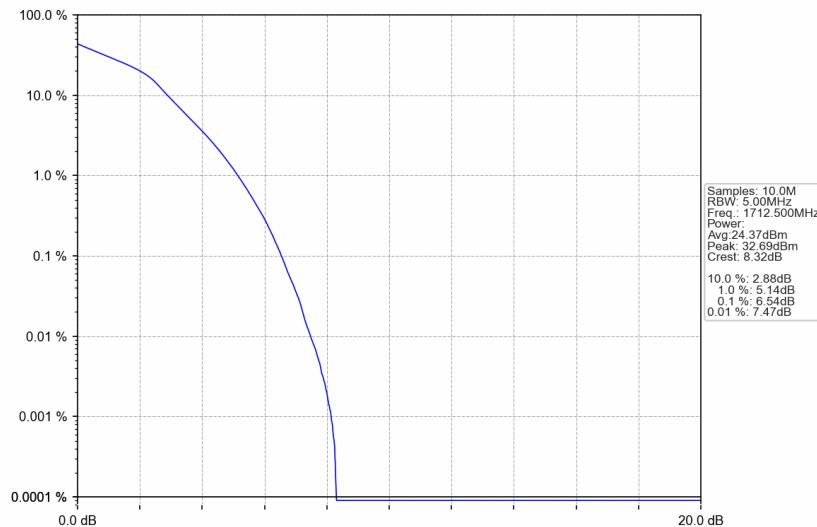
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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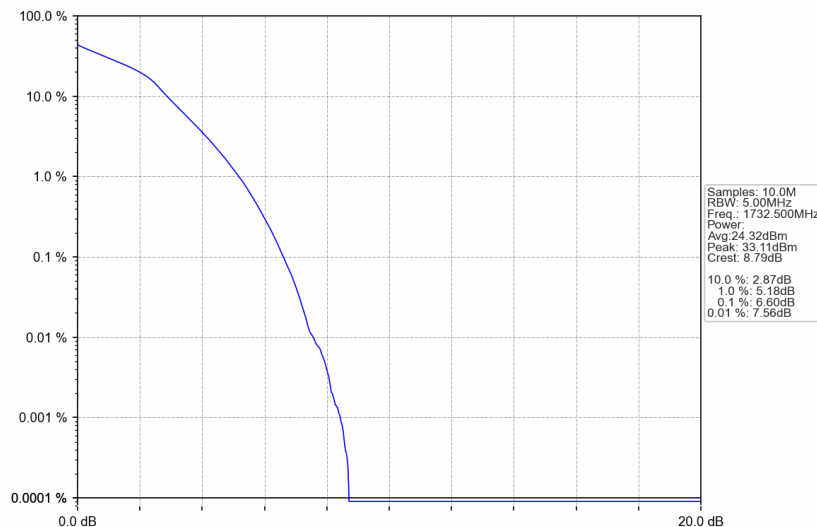
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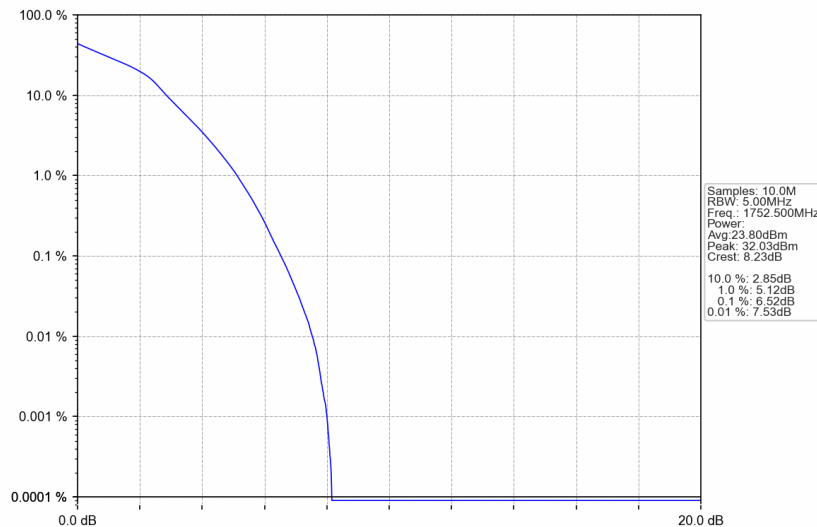
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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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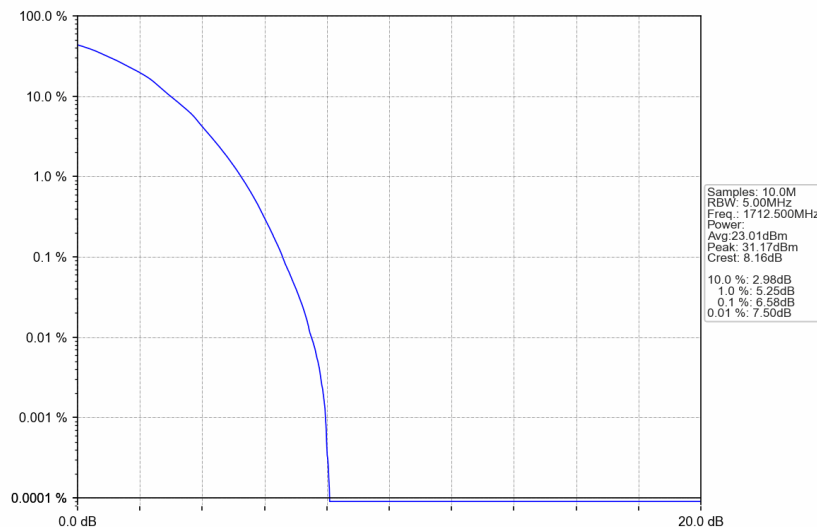
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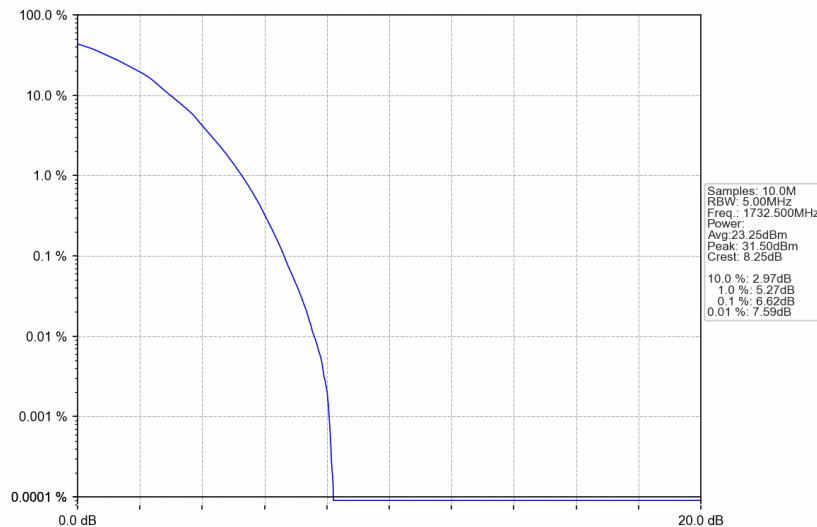
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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



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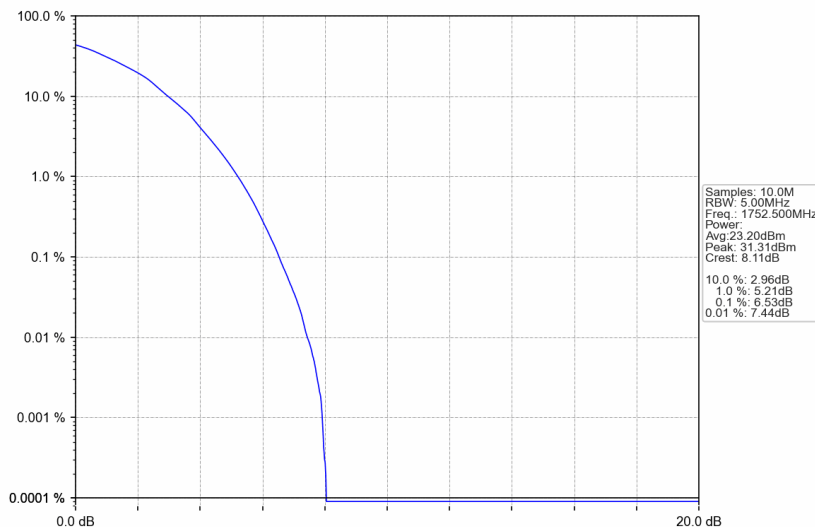
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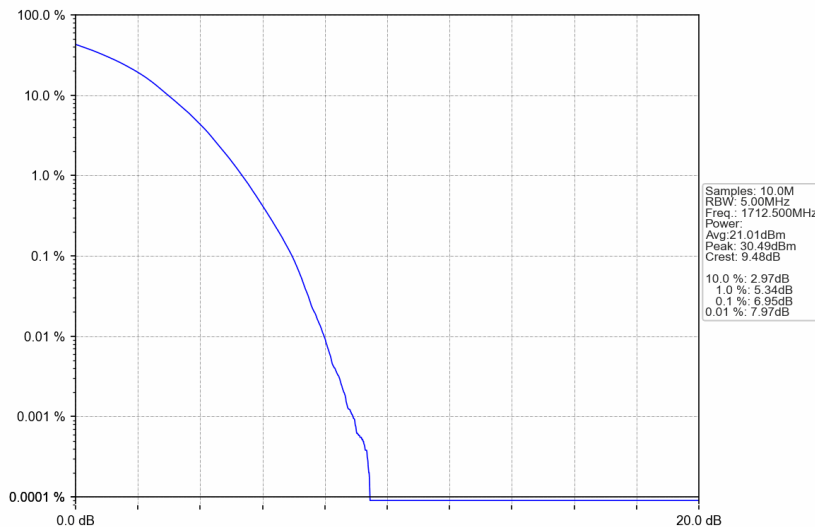
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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_LCH_1712.5MHz_RB_25_0_NTNV



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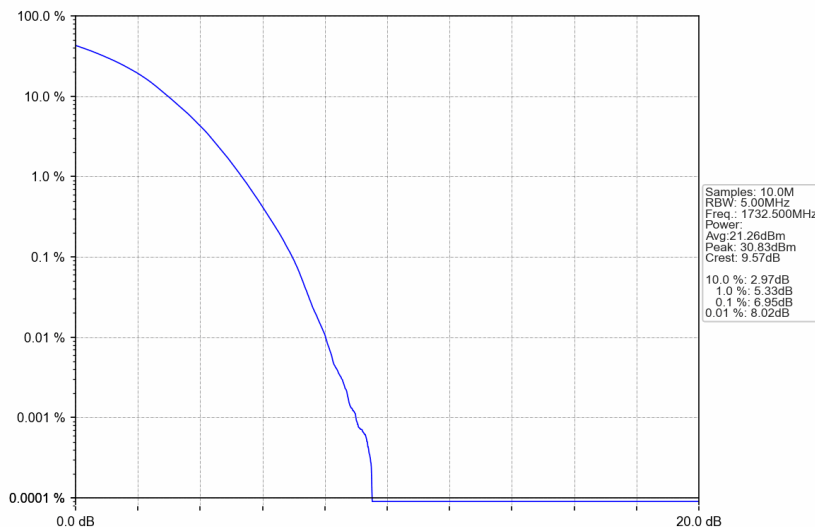
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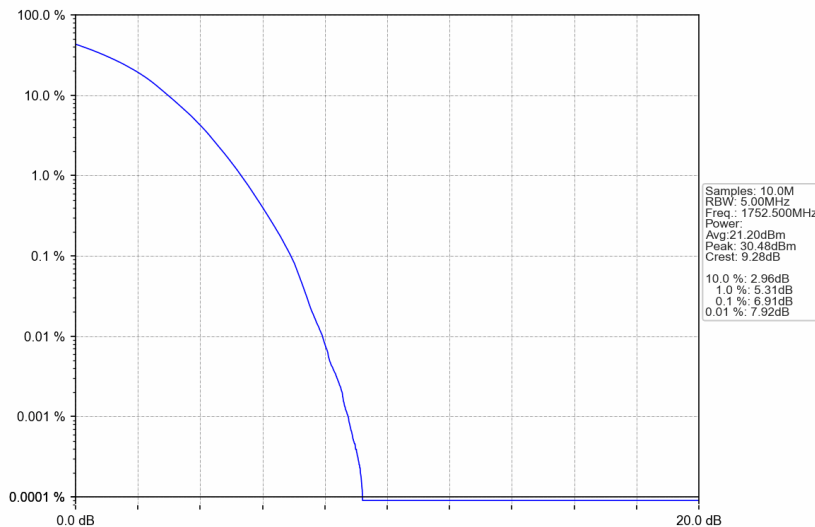
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Band4_5MHz_256QAM_MCH_1732.5MHz_RB_25_0_NTNV



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4.4 B4_10MHz

4.4.1 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	5.72	<=13	Pass
	1732.5	50	0	5.73	<=13	Pass
	1750	50	0	5.59	<=13	Pass
16QAM	1715	50	0	6.46	<=13	Pass
	1732.5	50	0	6.50	<=13	Pass
	1750	50	0	6.39	<=13	Pass
64QAM	1715	50	0	6.57	<=13	Pass
	1732.5	50	0	6.64	<=13	Pass
	1750	50	0	6.52	<=13	Pass
256QAM	1715	50	0	6.78	<=13	Pass
	1732.5	50	0	6.80	<=13	Pass
	1750	50	0	6.74	<=13	Pass



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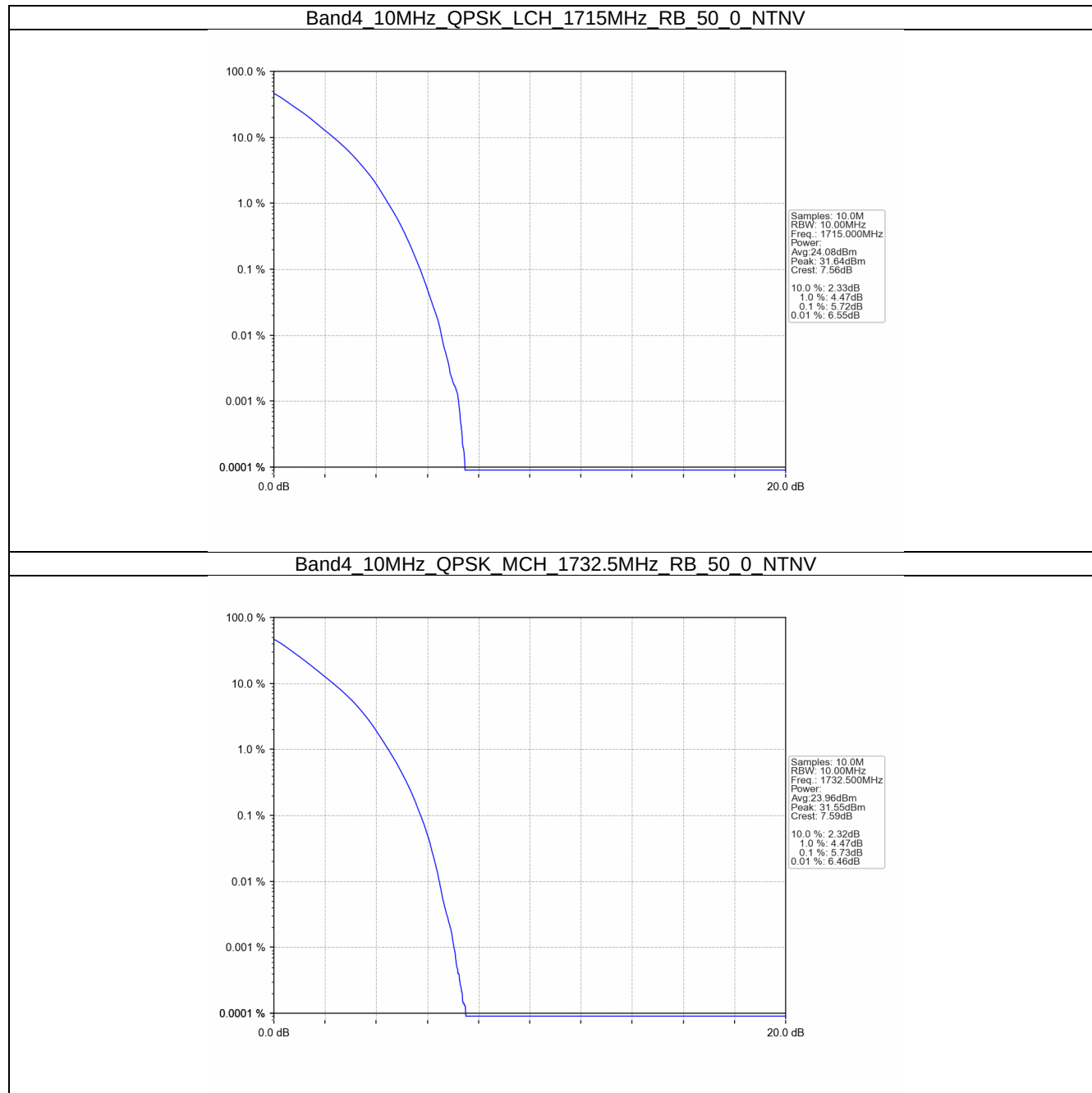
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4.4.2 Test Graph



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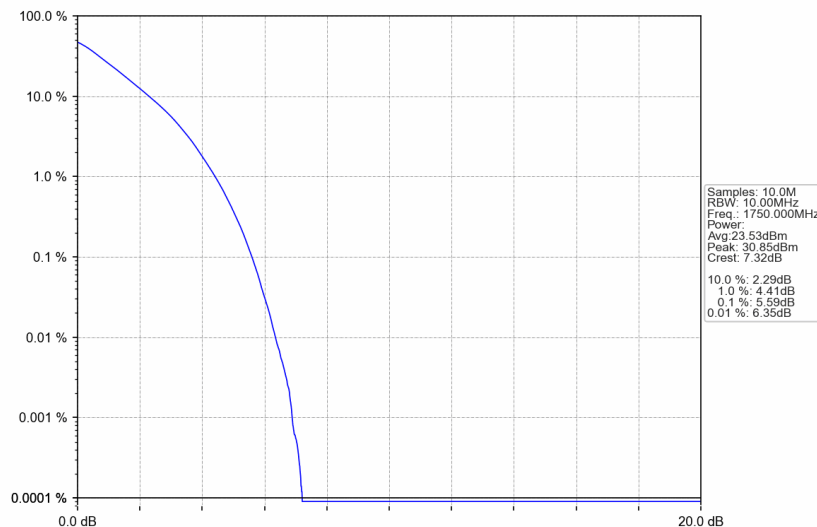
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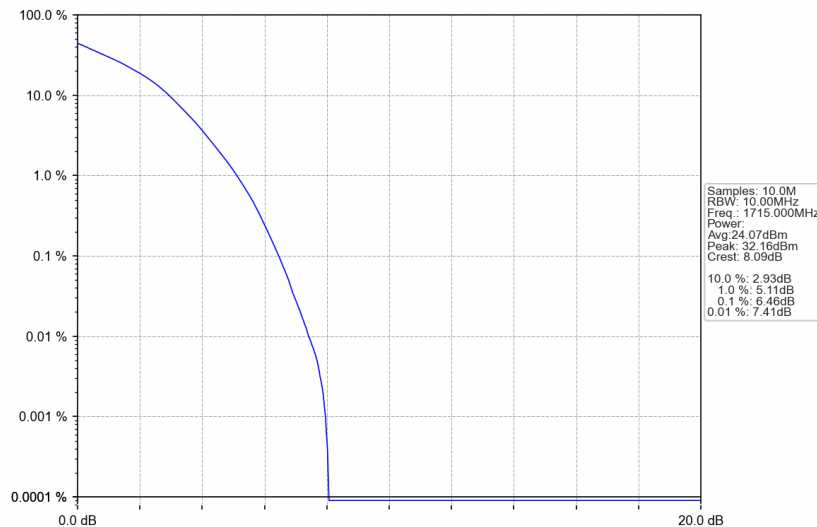
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Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



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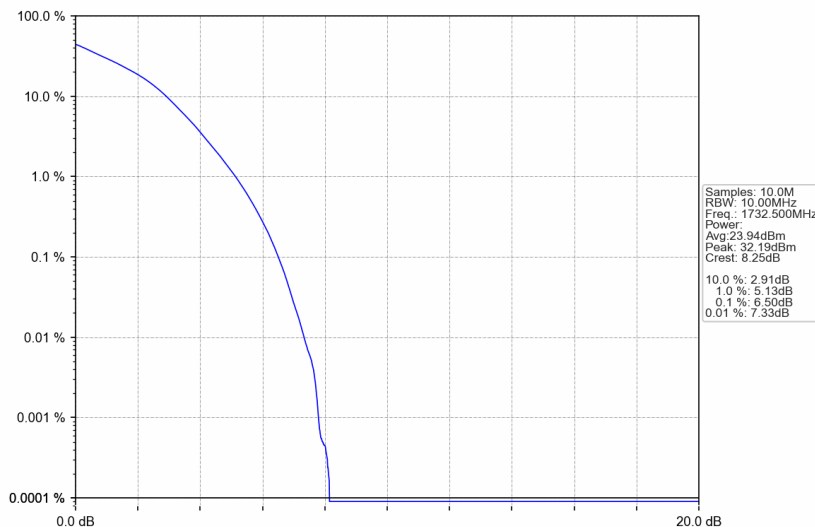
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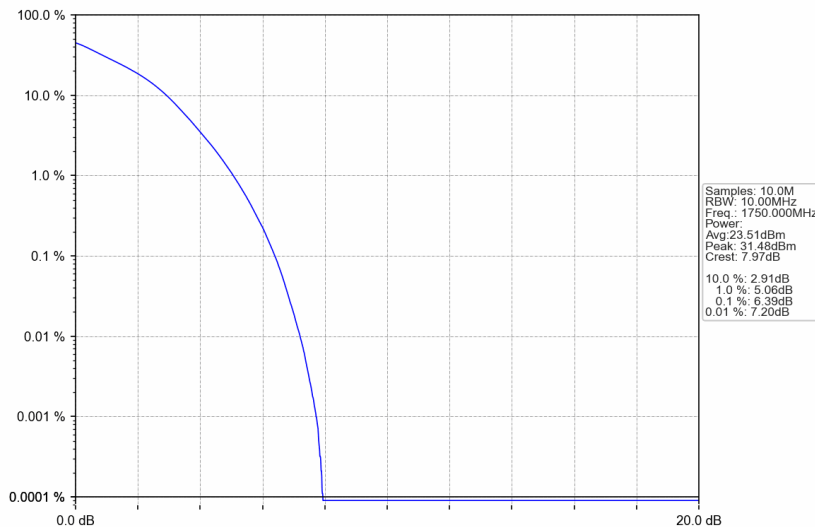
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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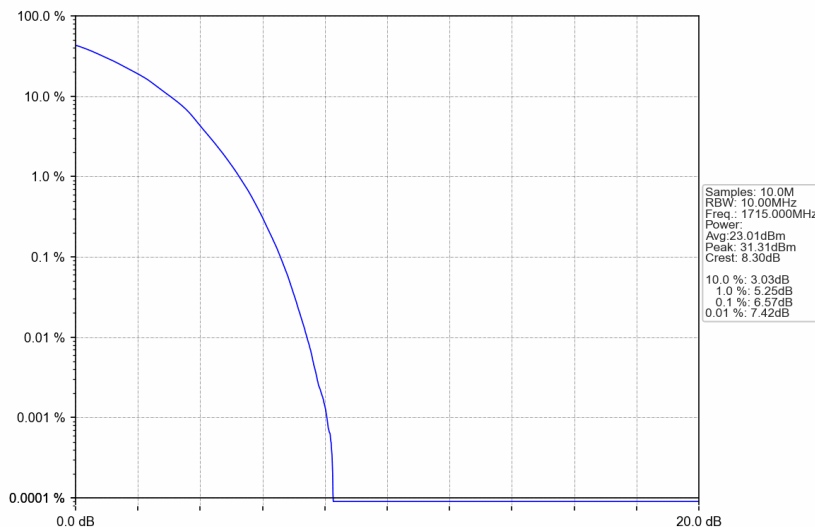
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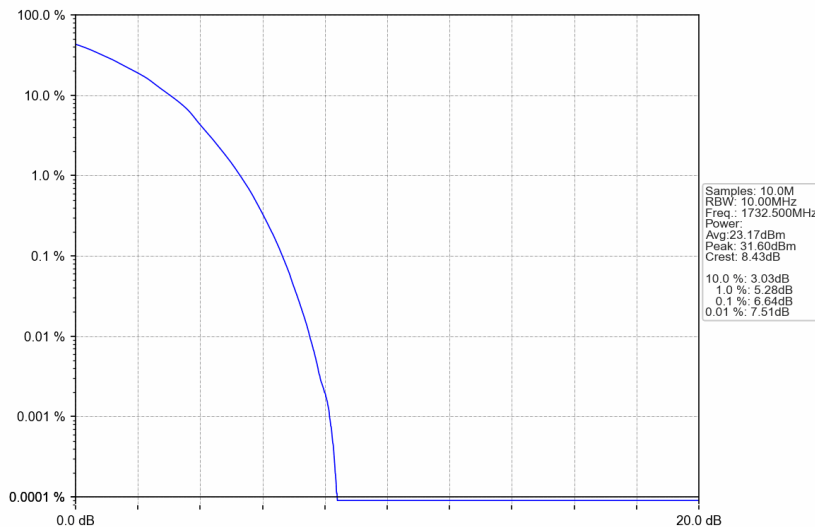
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Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV



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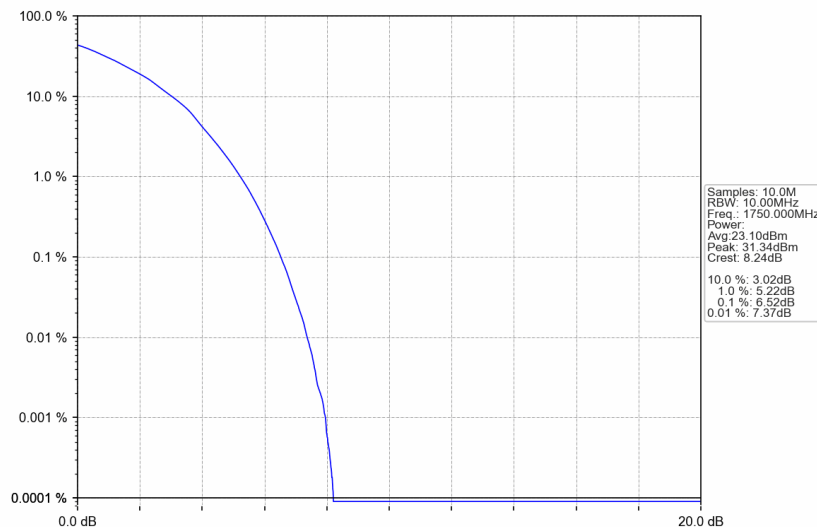
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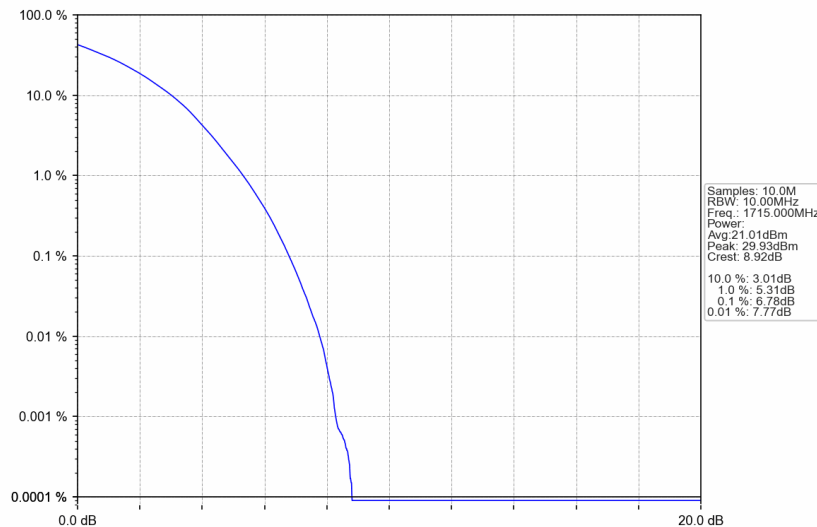
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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_256QAM_LCH_1715MHz_RB_50_0_NTNV



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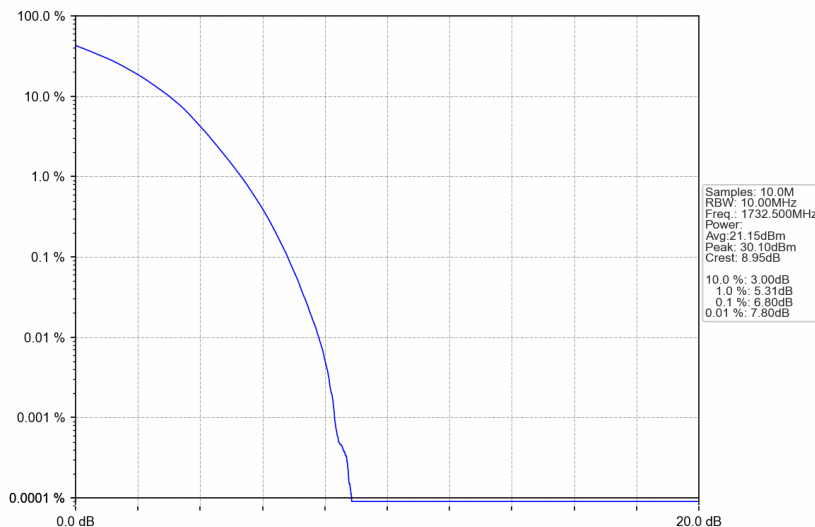
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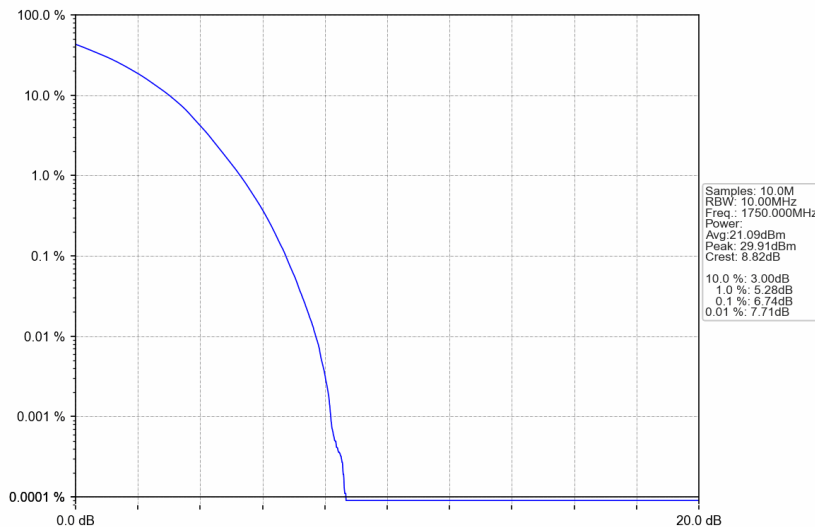
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Band4_10MHz_256QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_256QAM_HCH_1750MHz_RB_50_0_NTNV



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4.5 B4_15MHz

4.5.1 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	5.12	<=13	Pass
	1732.5	75	0	5.14	<=13	Pass
	1747.5	75	0	5.11	<=13	Pass
16QAM	1717.5	75	0	6.40	<=13	Pass
	1732.5	75	0	6.39	<=13	Pass
	1747.5	75	0	6.40	<=13	Pass
64QAM	1717.5	75	0	6.50	<=13	Pass
	1732.5	75	0	6.56	<=13	Pass
	1747.5	75	0	6.45	<=13	Pass
256QAM	1717.5	75	0	6.75	<=13	Pass
	1732.5	75	0	6.77	<=13	Pass
	1747.5	75	0	6.71	<=13	Pass



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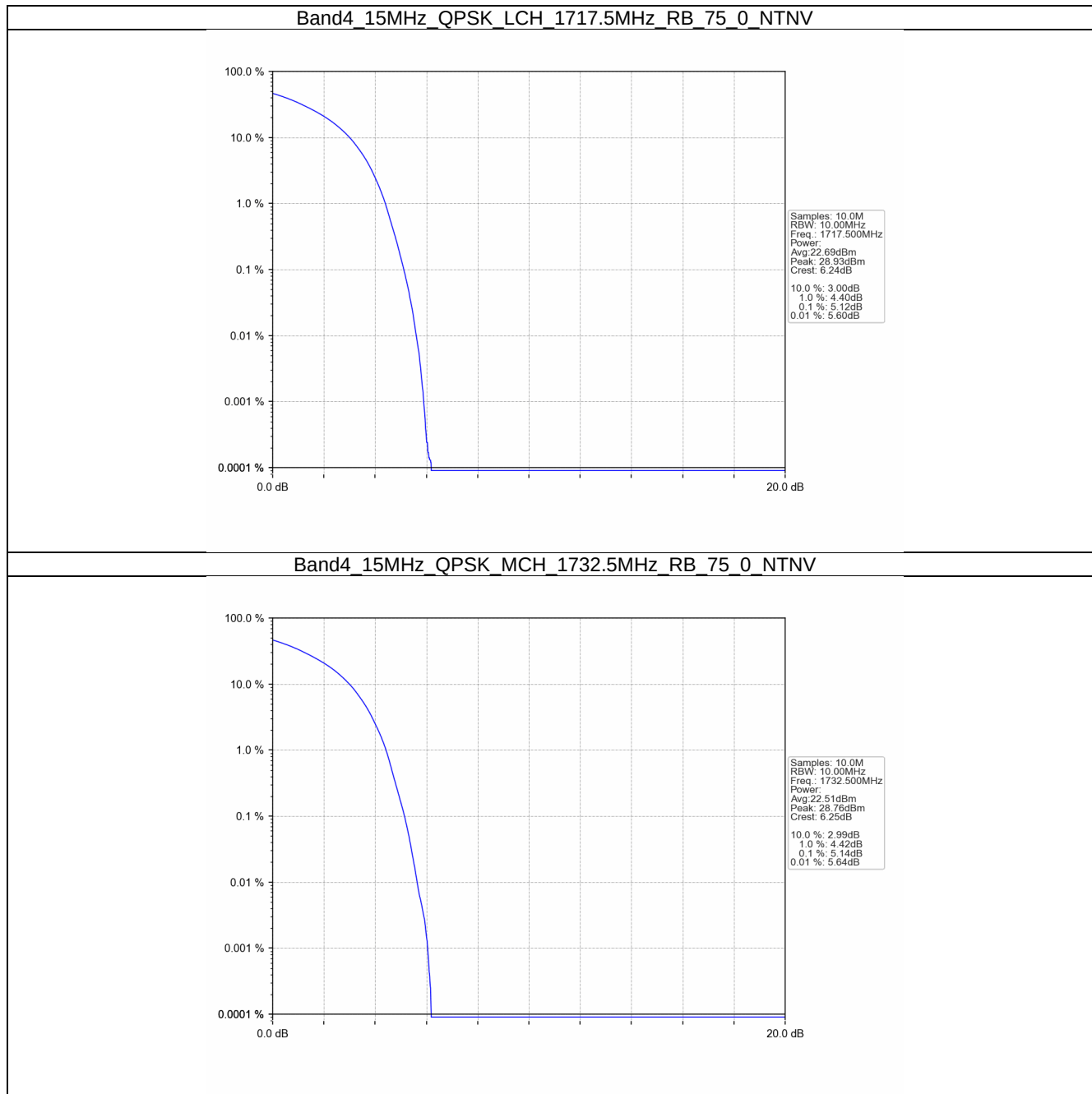
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4.5.2 Test Graph



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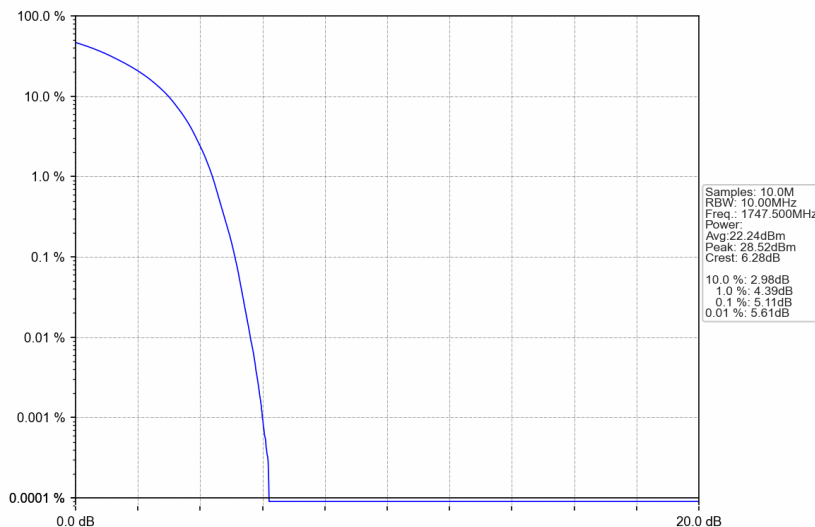
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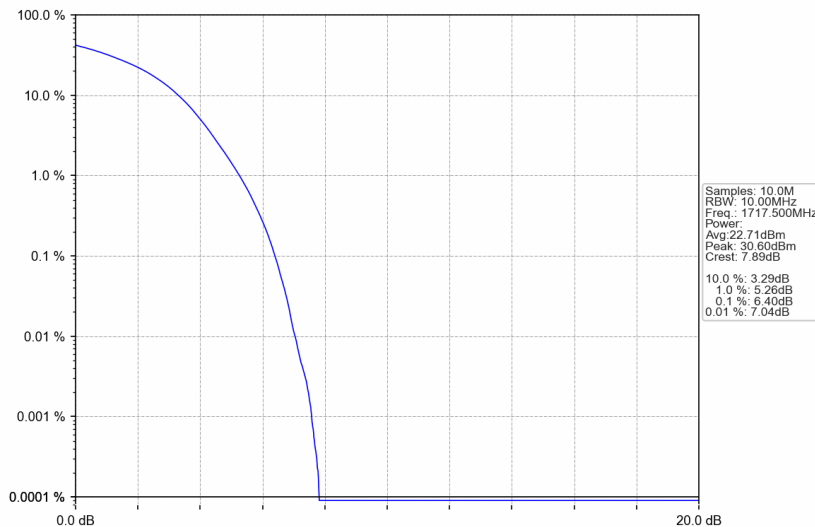
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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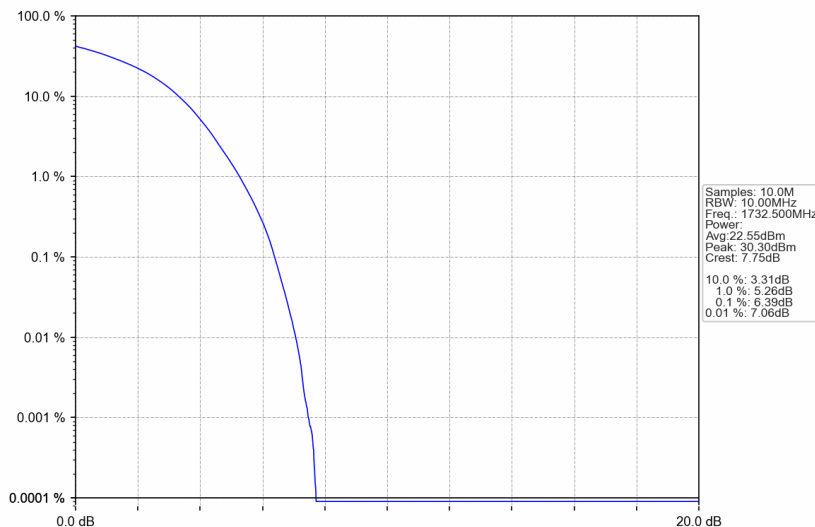
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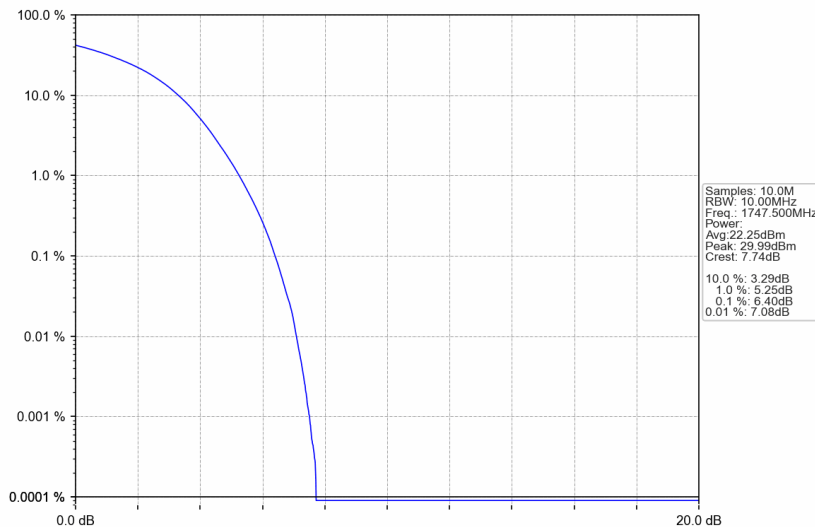
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



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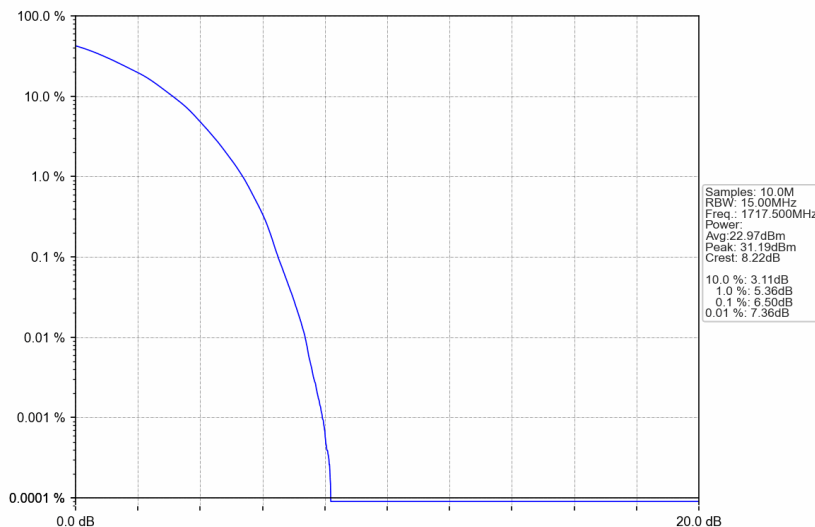
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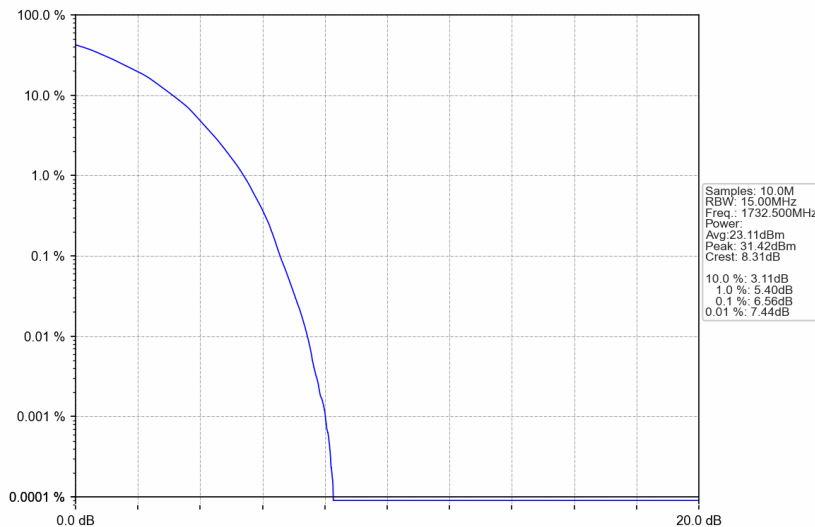
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Band4 15MHz 64QAM LCH 1717.5MHz RB 75_0 NTN



Band4 15MHz 64QAM MCH 1732.5MHz RB 75_0 NTN



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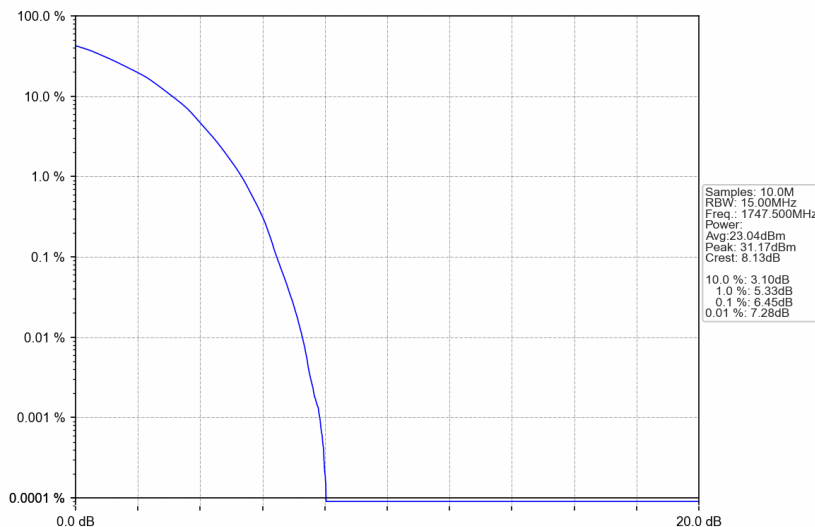
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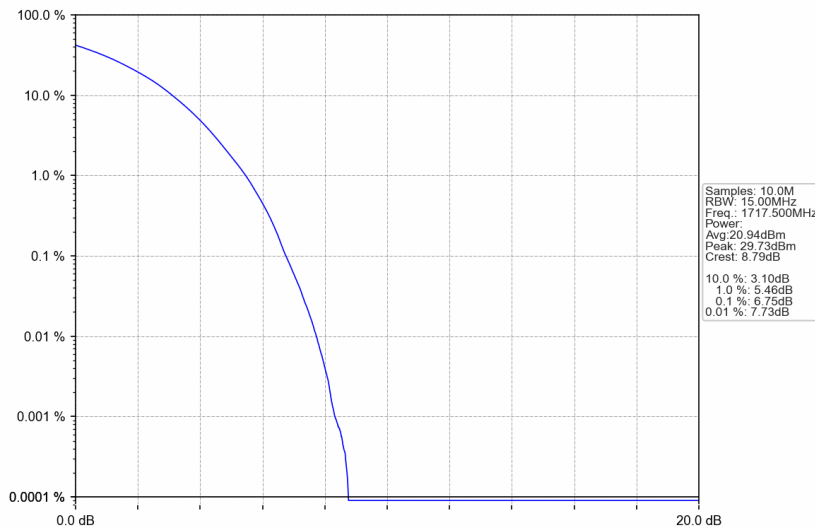
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Band4 15MHz 64QAM HCH 1747.5MHz RB 75 0 NTN



Band4 15MHz 256QAM LCH 1717.5MHz RB 75 0 NTN



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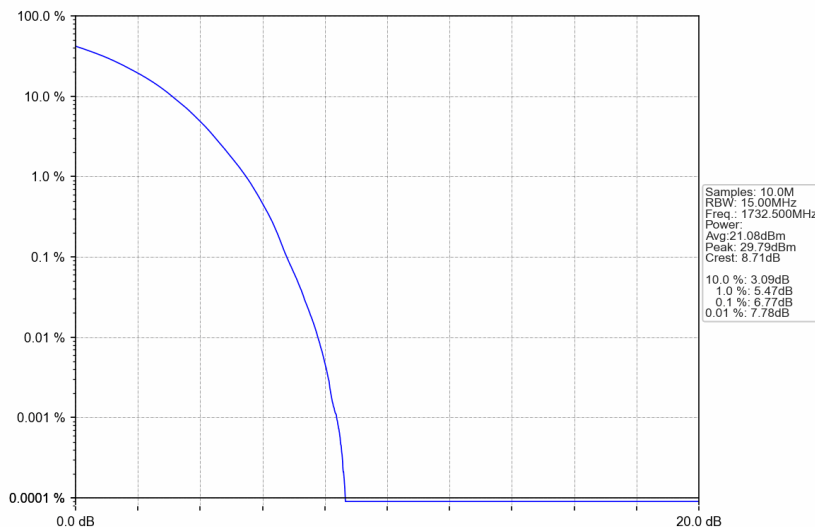
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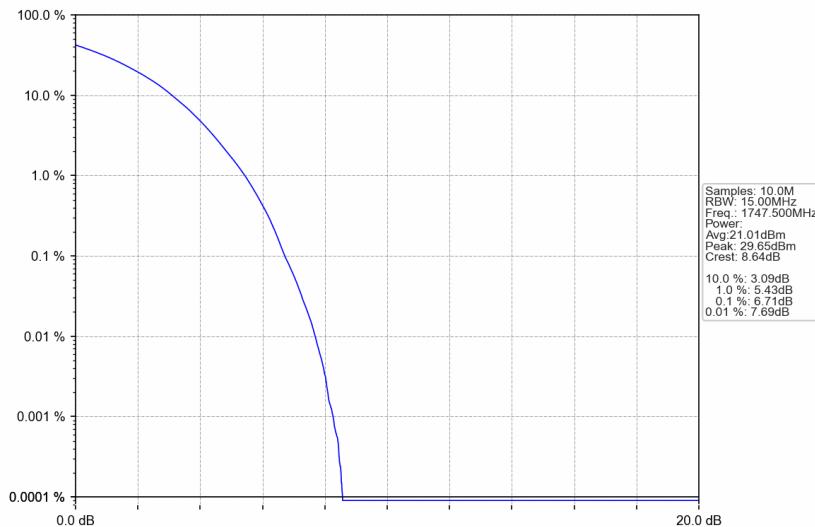
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Band4_15MHz_256QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_256QAM_HCH_1747.5MHz_RB_75_0_NTNV



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4.6 B4_20MHz

4.6.1 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	5.83	<=13	Pass
	1732.5	100	0	5.88	<=13	Pass
	1745	100	0	5.85	<=13	Pass
16QAM	1720	100	0	6.86	<=13	Pass
	1732.5	100	0	6.86	<=13	Pass
	1745	100	0	6.86	<=13	Pass
64QAM	1720	100	0	6.50	<=13	Pass
	1732.5	100	0	6.55	<=13	Pass
	1745	100	0	6.47	<=13	Pass
256QAM	1720	100	0	6.72	<=13	Pass
	1732.5	100	0	6.76	<=13	Pass
	1745	100	0	6.69	<=13	Pass



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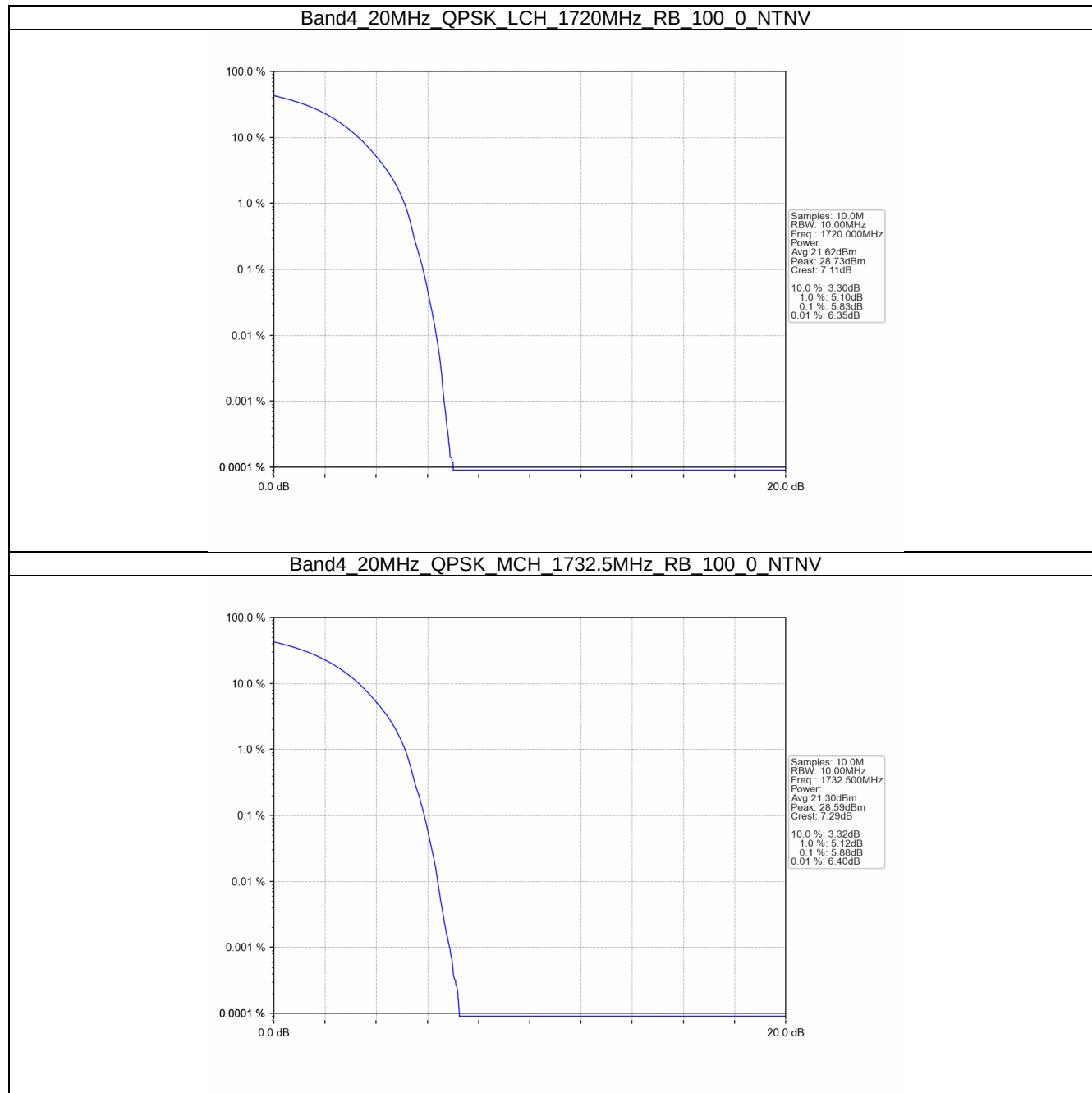
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4.6.2 Test Graph



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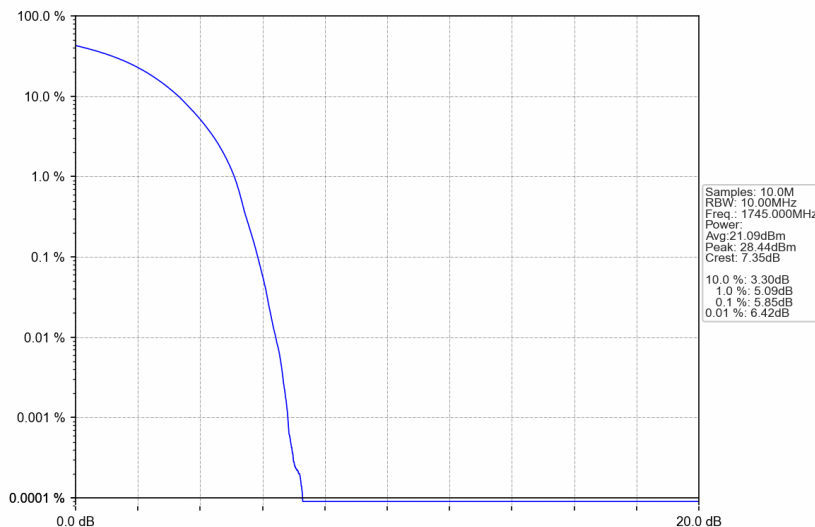
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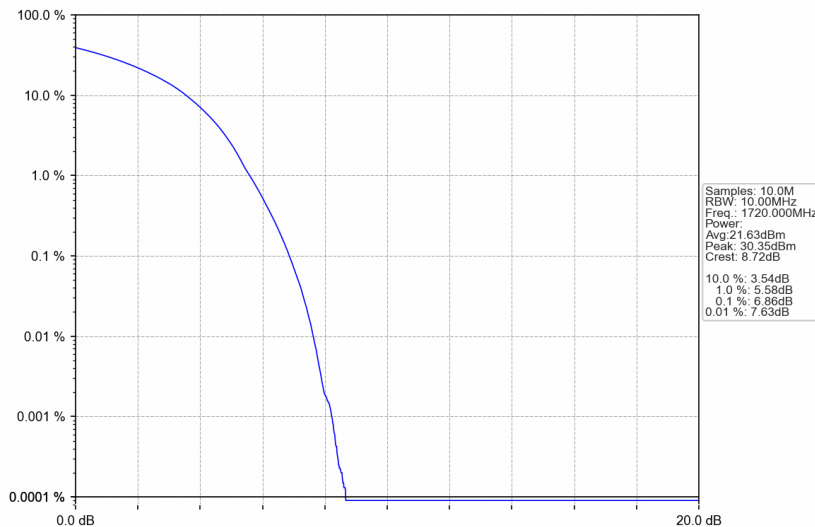
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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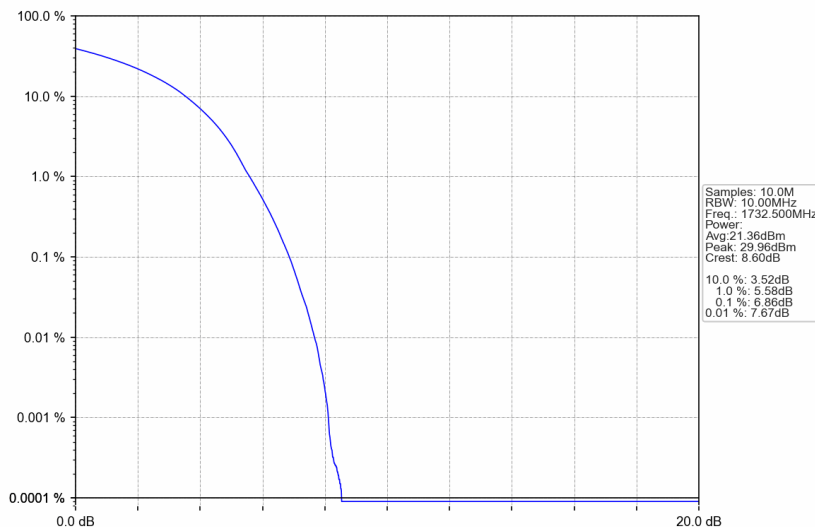
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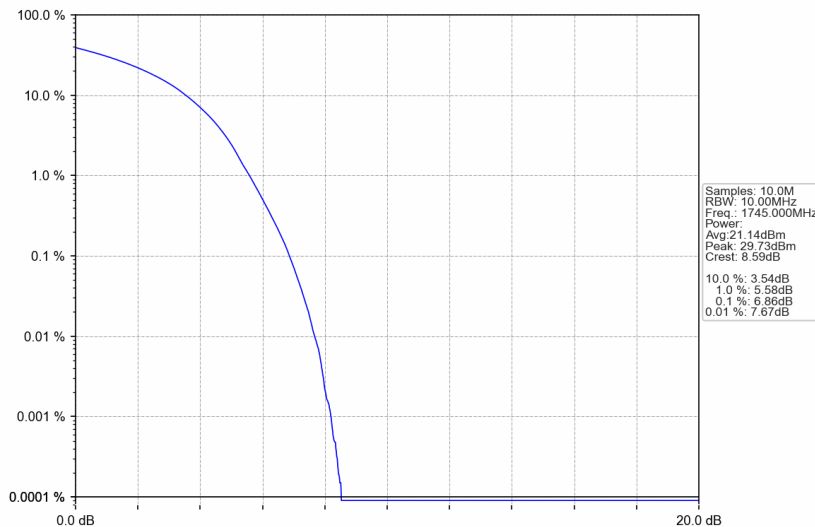
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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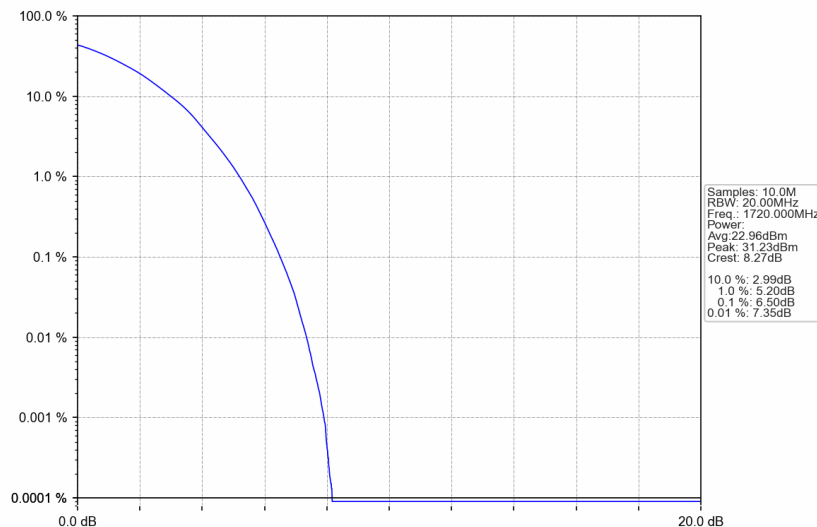
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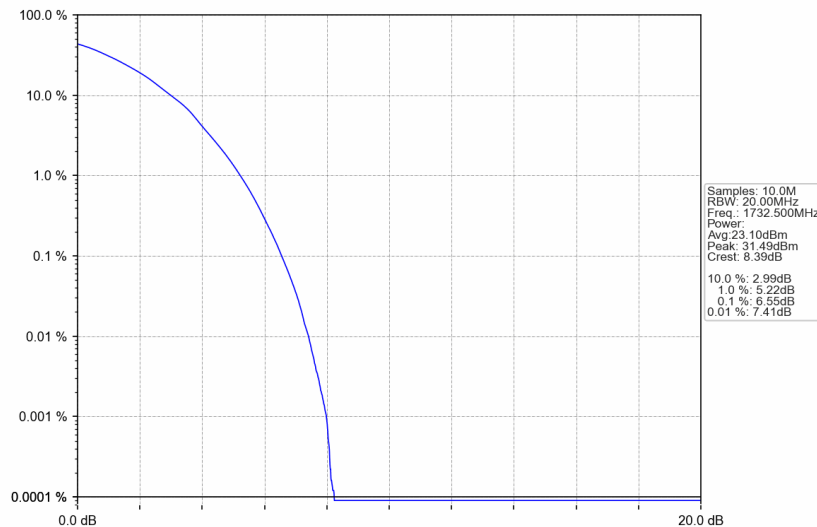
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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV



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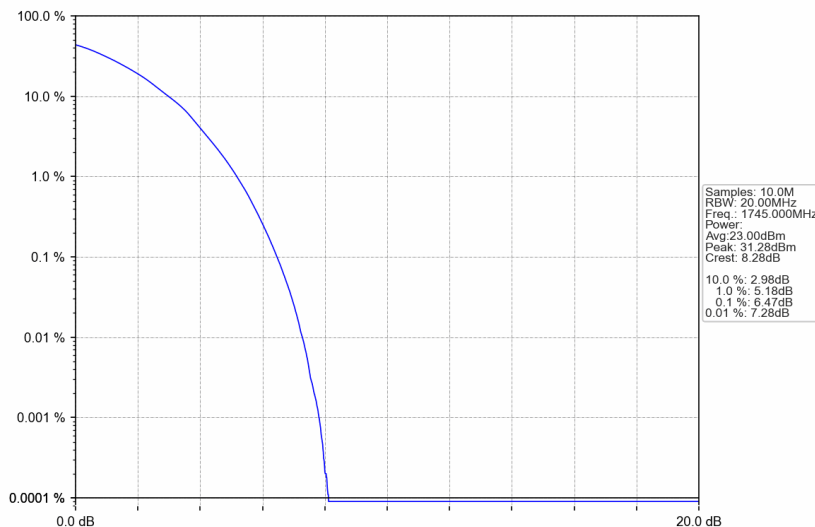
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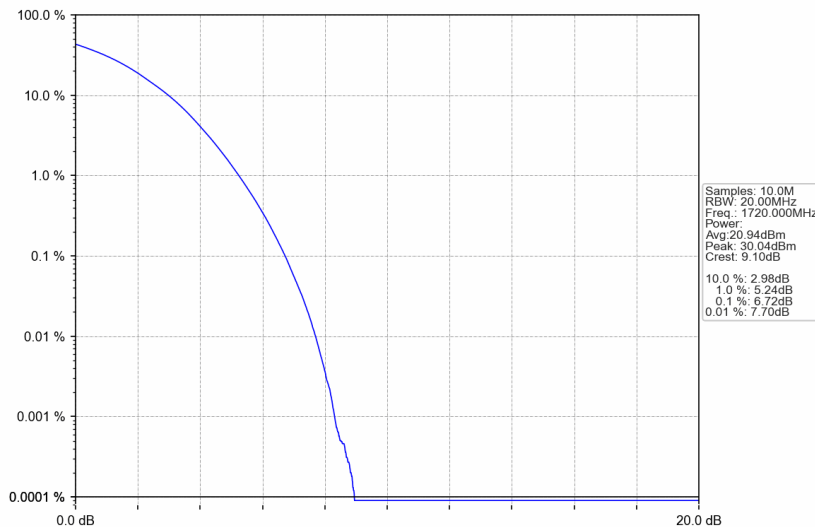
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Band4 20MHz 64QAM HCH 1745MHz RB 100 0 NTN



Band4 20MHz 256QAM LCH 1720MHz RB 100 0 NTN



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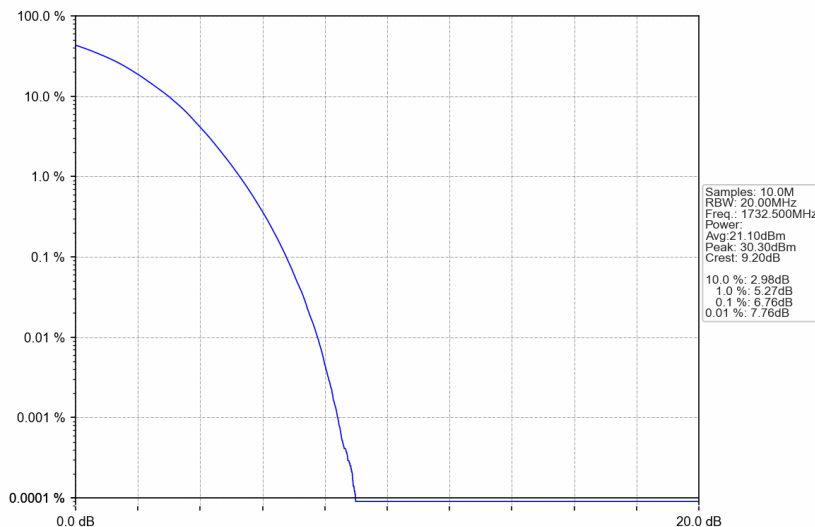
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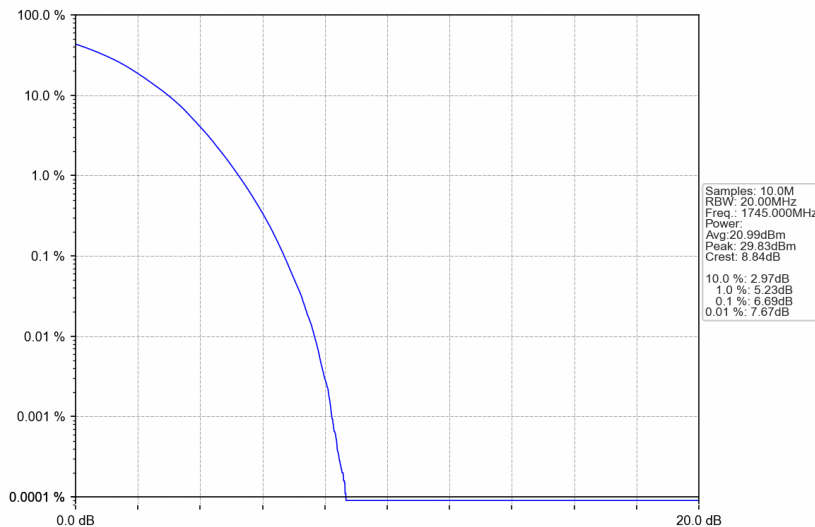
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Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 256QAM HCH 1745MHz RB 100 0 NTNV



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5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

5.1.1 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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
256QAM	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
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass



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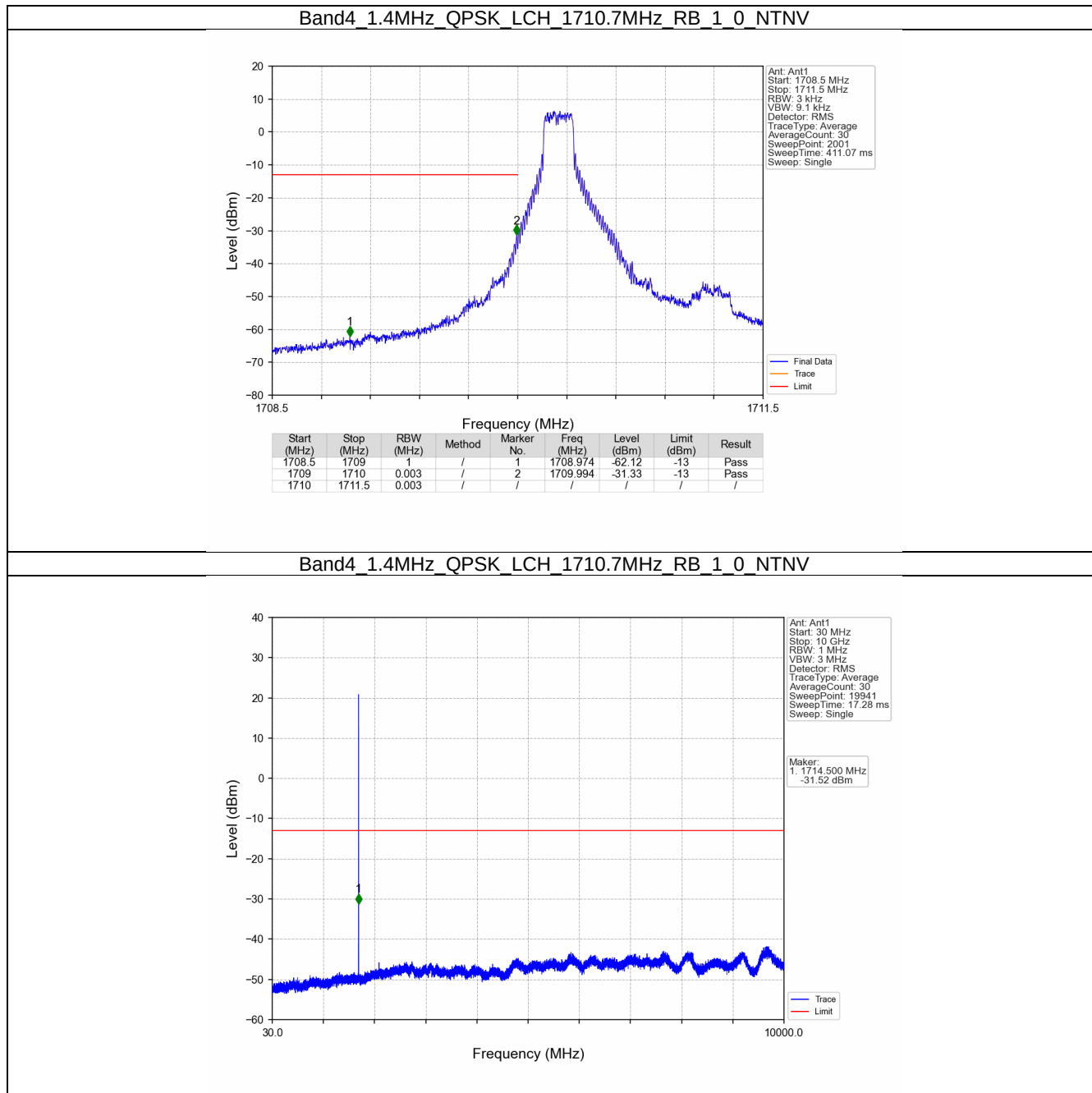
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5.1.2 Test Graph



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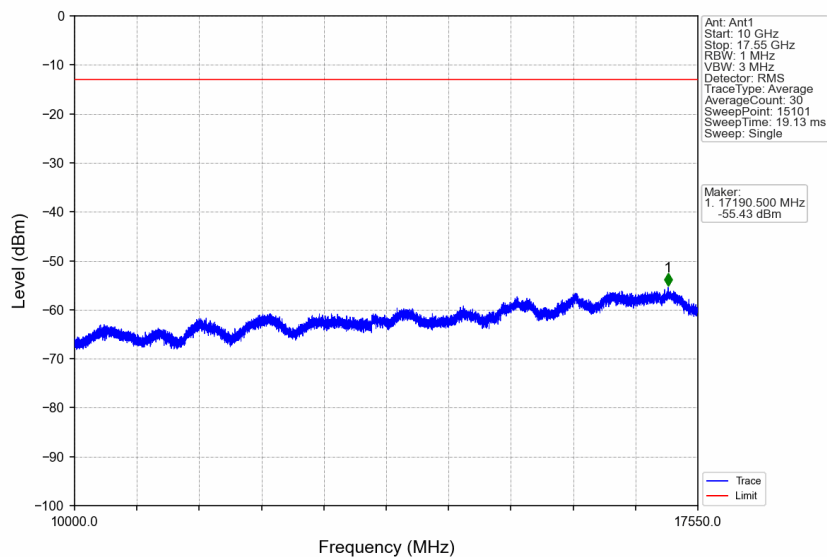


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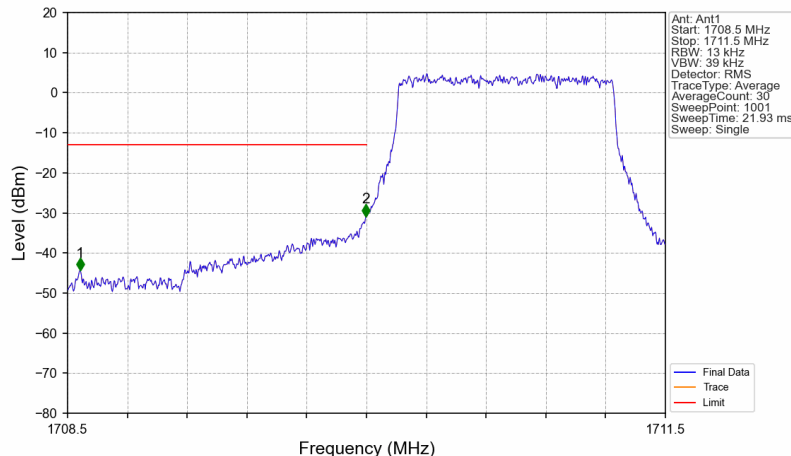
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



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	1708.563	-44.32	-13	Pass
1709	1710	0.013	/	2	1709.997	-30.89	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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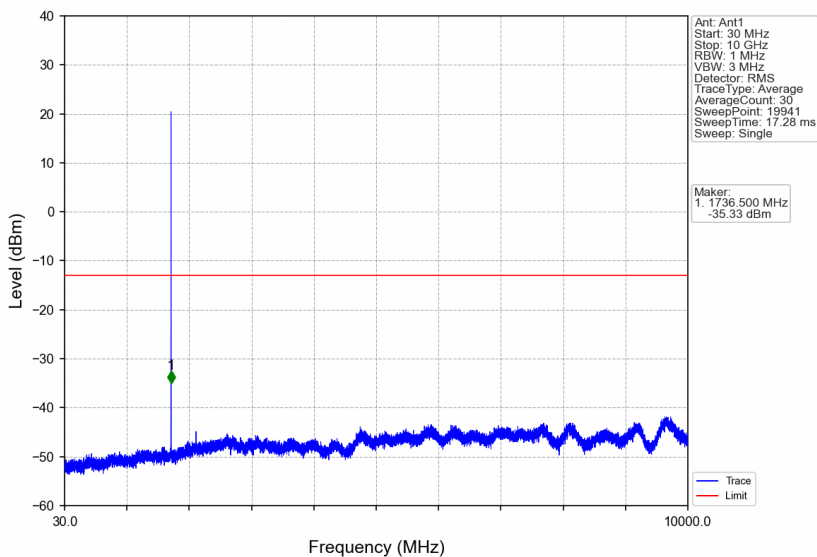
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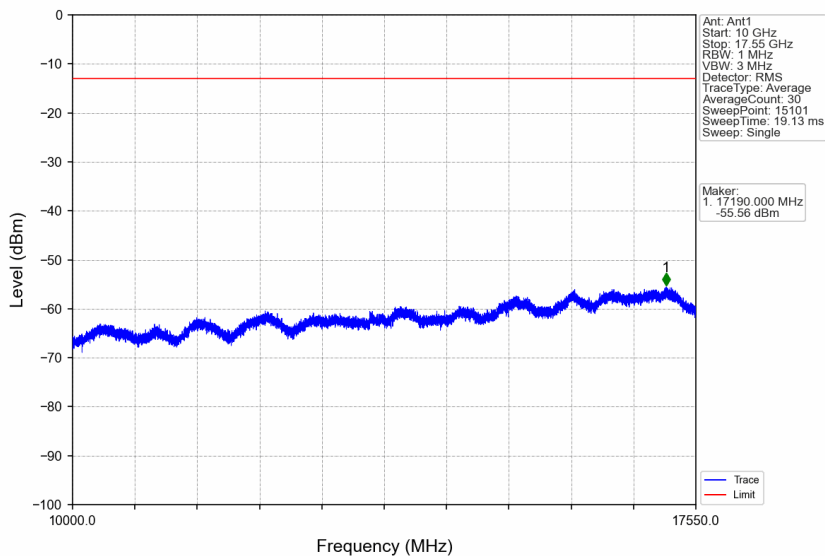
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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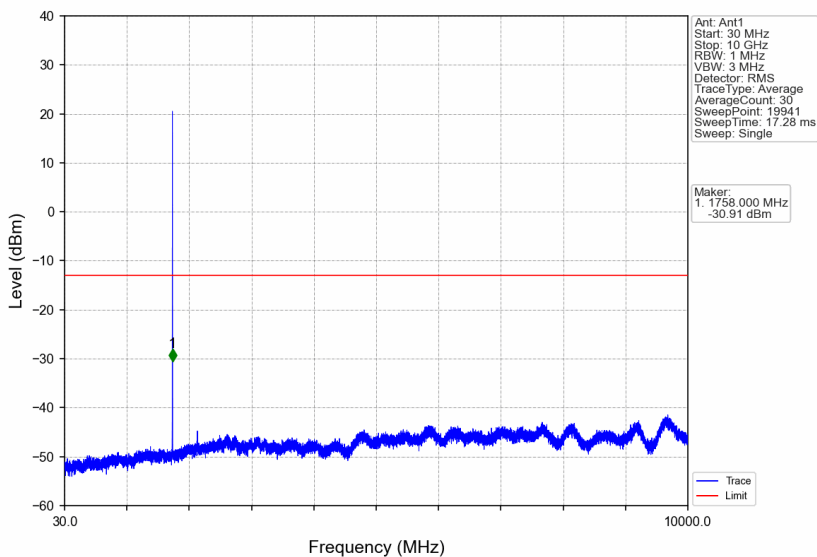
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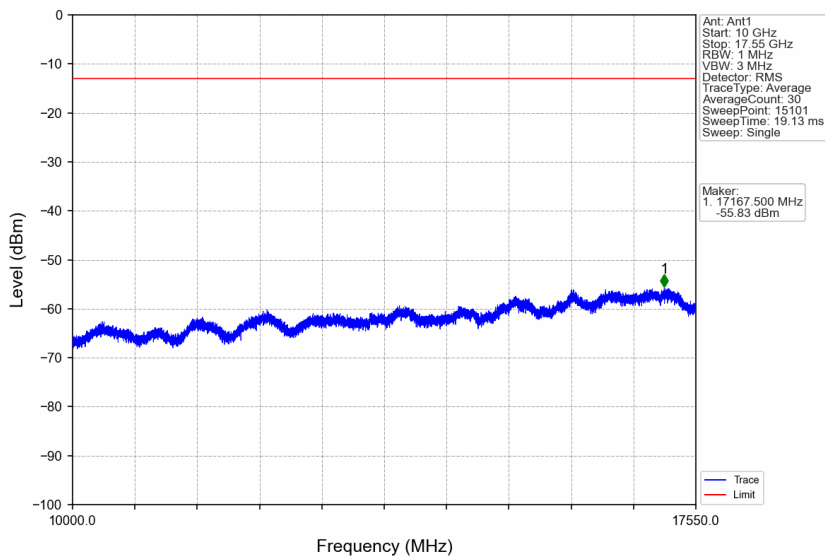
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



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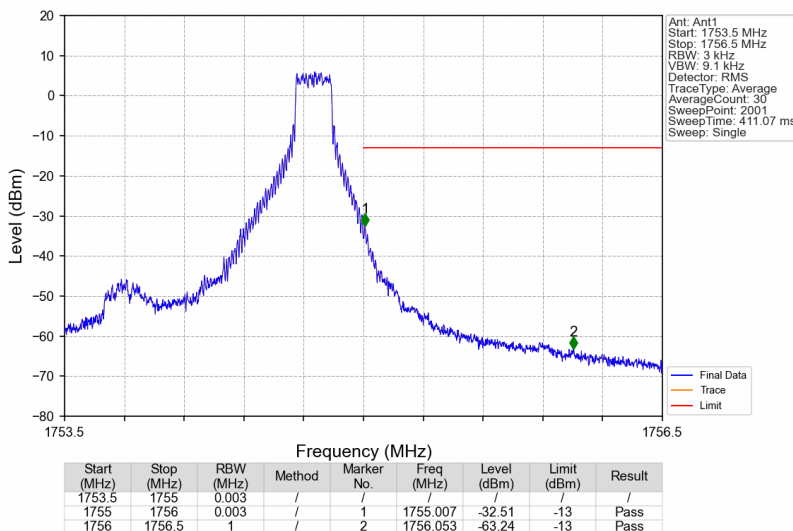
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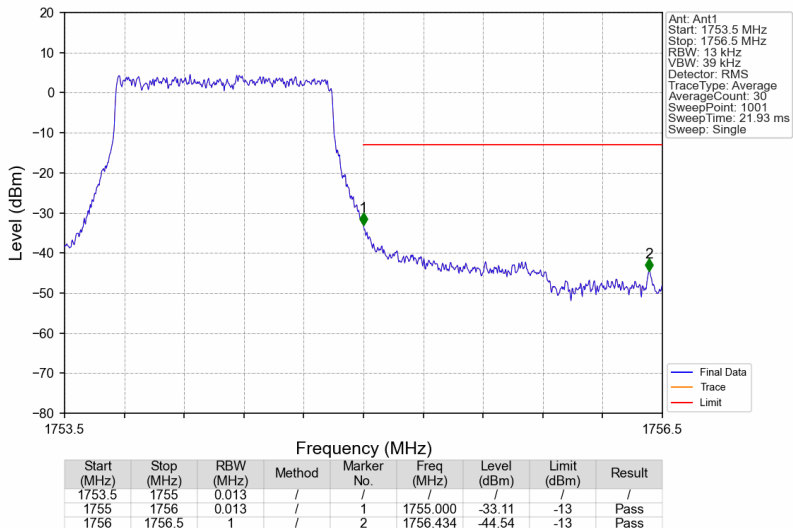
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTNV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



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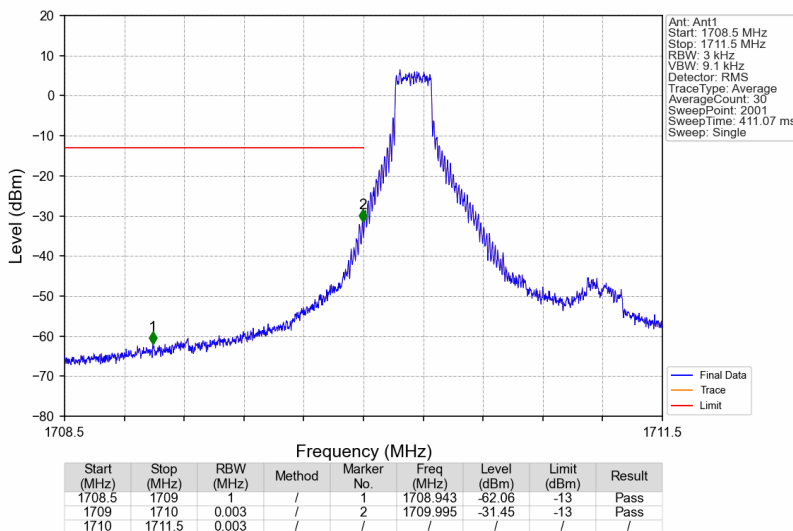
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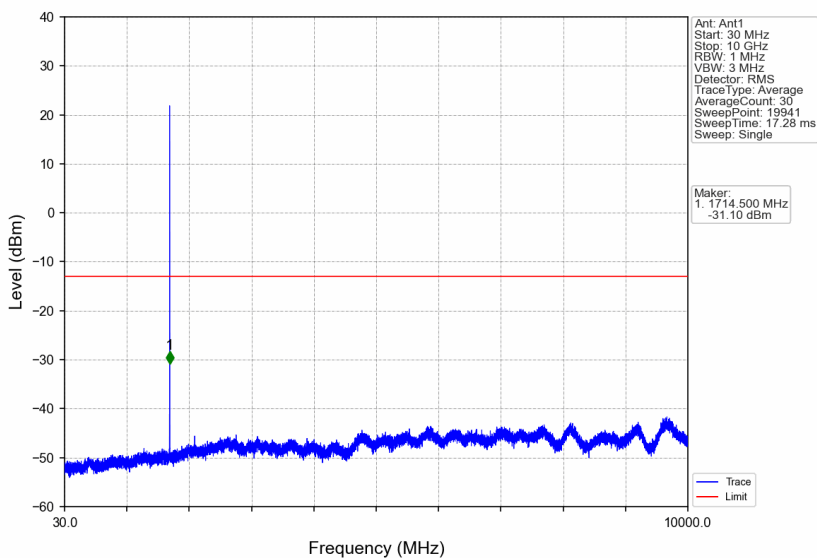
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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



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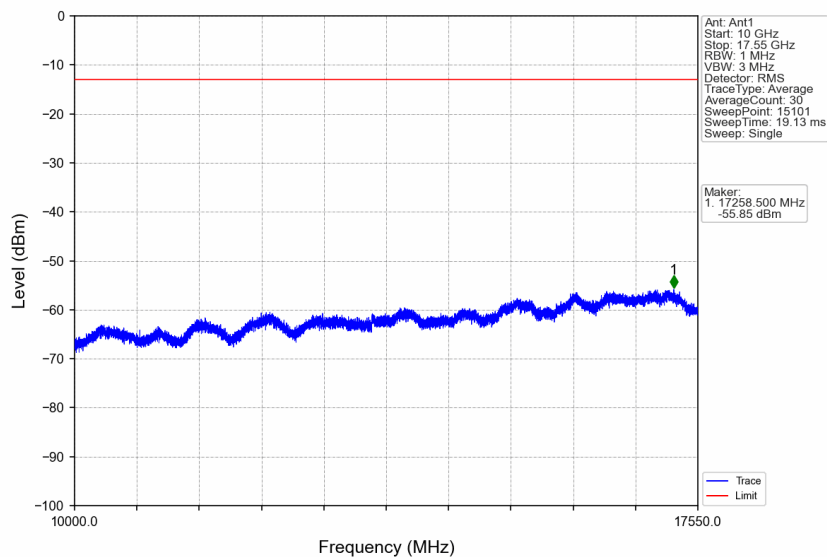
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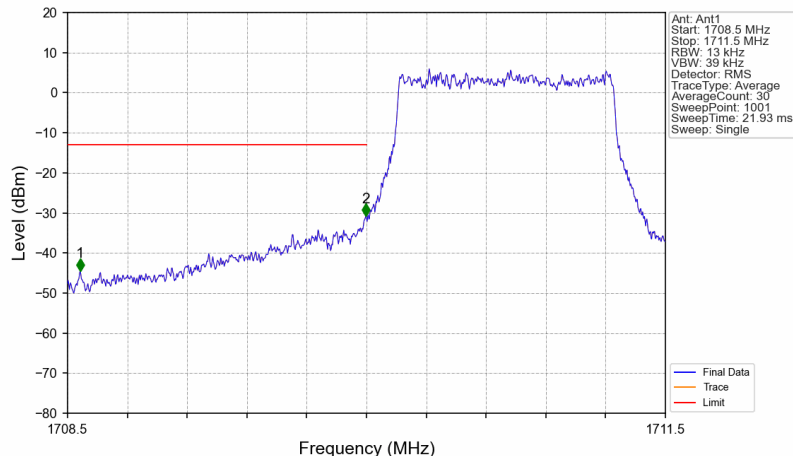
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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_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	1708.563	-44.46	-13	Pass
1709	1710	0.013	/	2	1709.997	-30.77	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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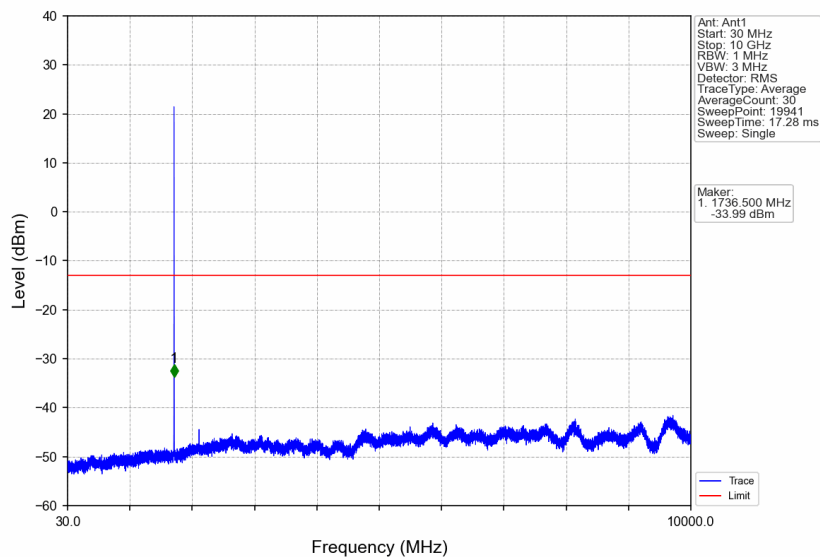
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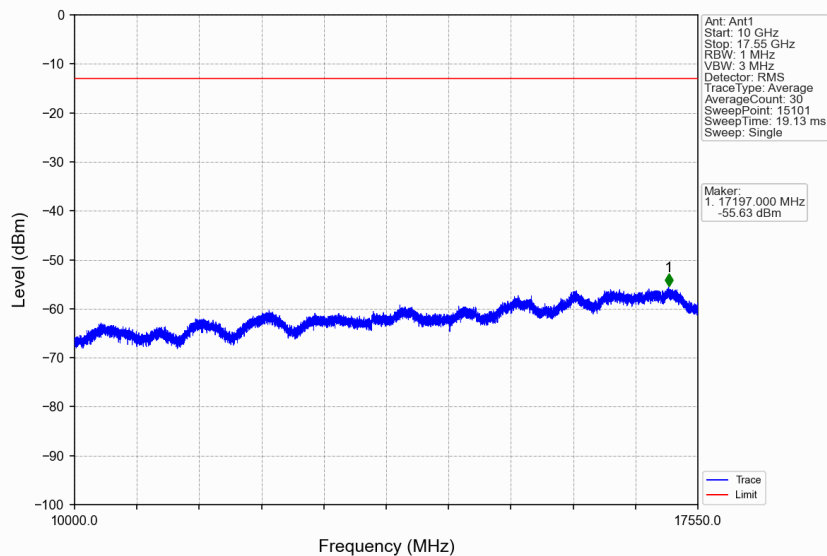
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Band4 1.4MHz 16QAM MCH 1732.5MHz RB 1 0 NTNV



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



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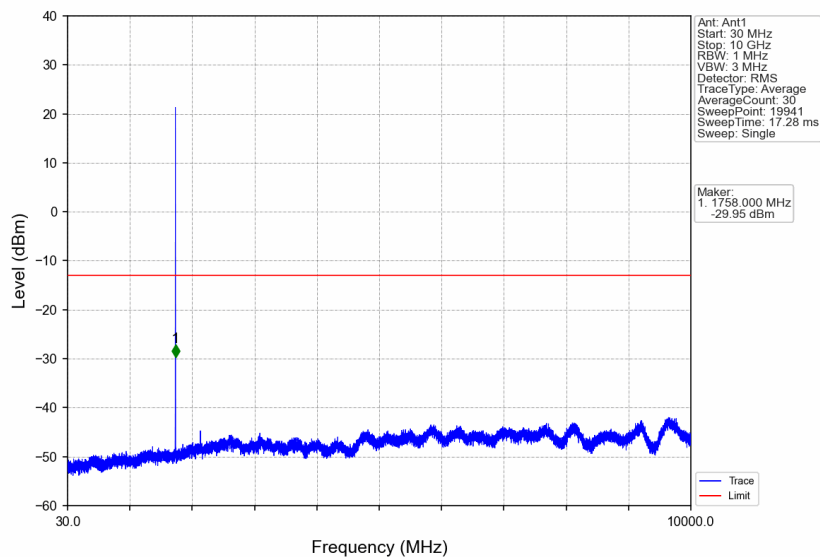
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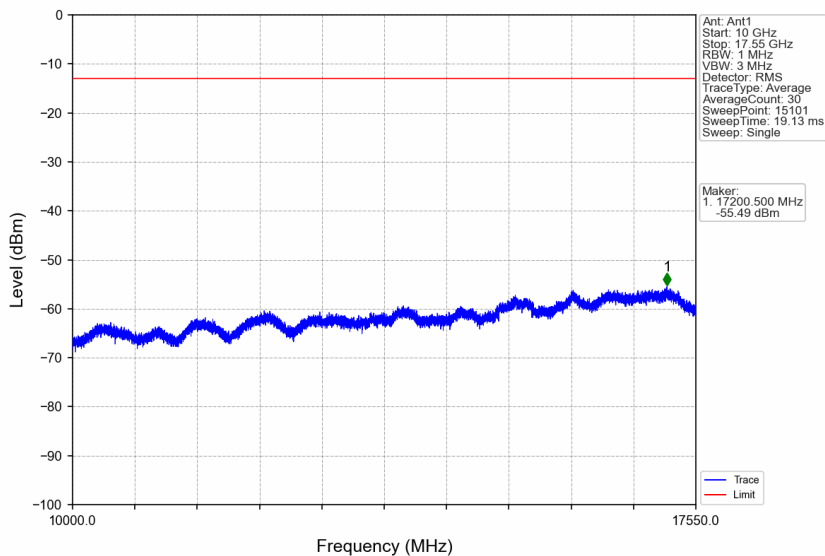
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Band4 1.4MHz 16QAM HCH 1754.3MHz RB 1 0 NTN



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



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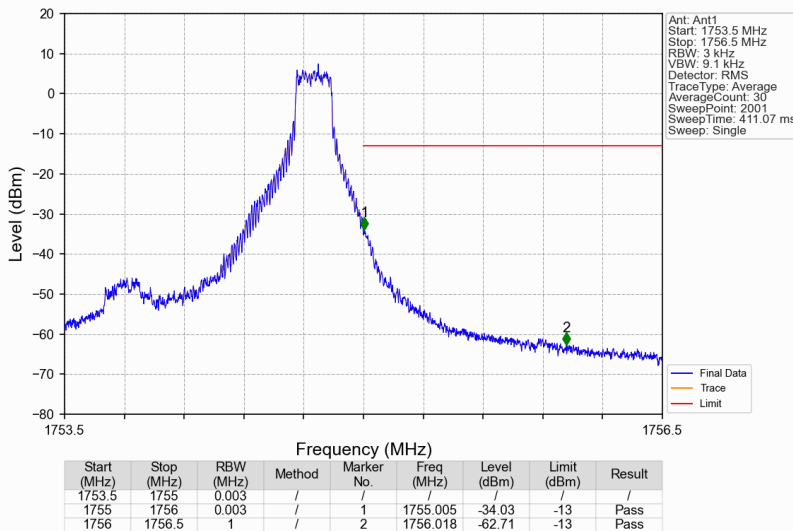
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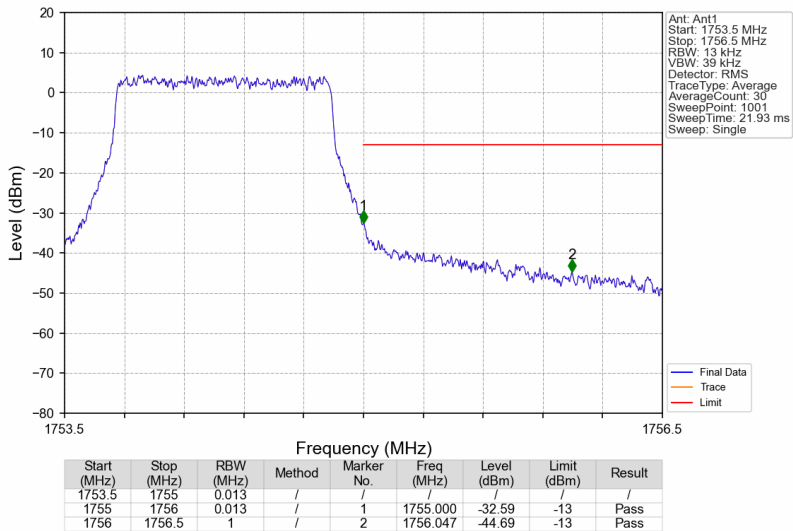
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Band4 1.4MHz 16QAM HCH 1754.3MHz RB_1_5 NTN



Band4 1.4MHz 16QAM HCH 1754.3MHz RB_6_0 NTN



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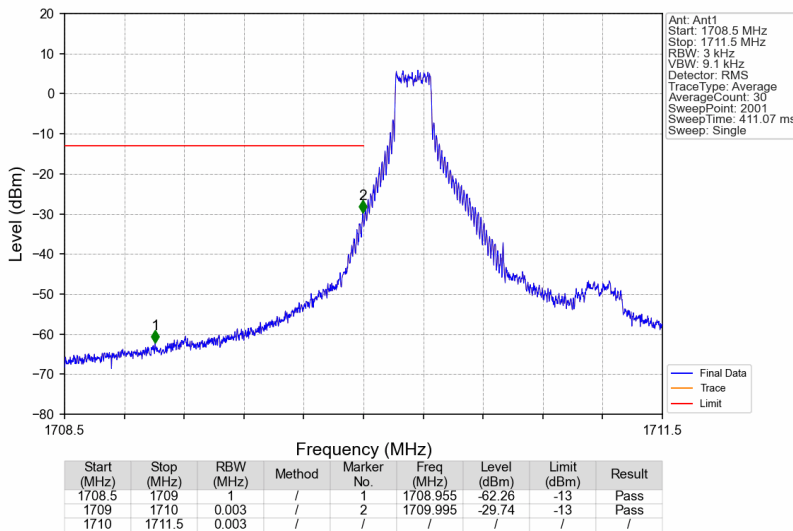
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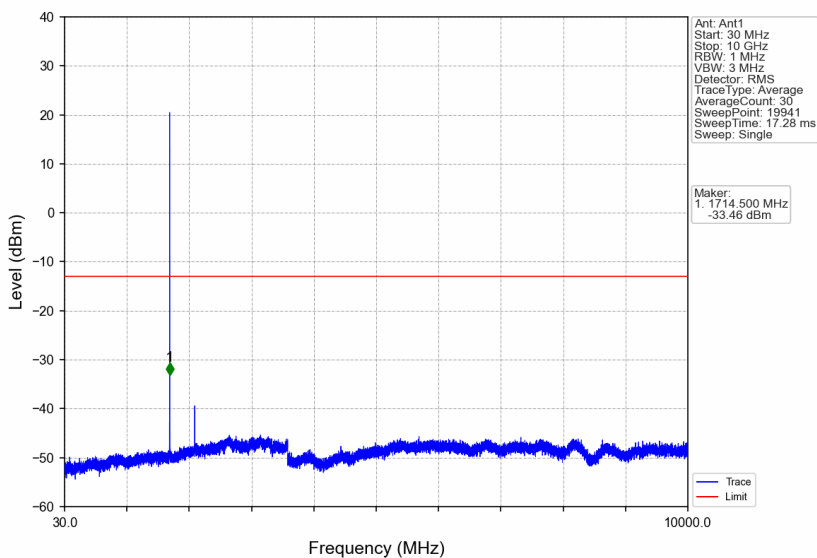
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



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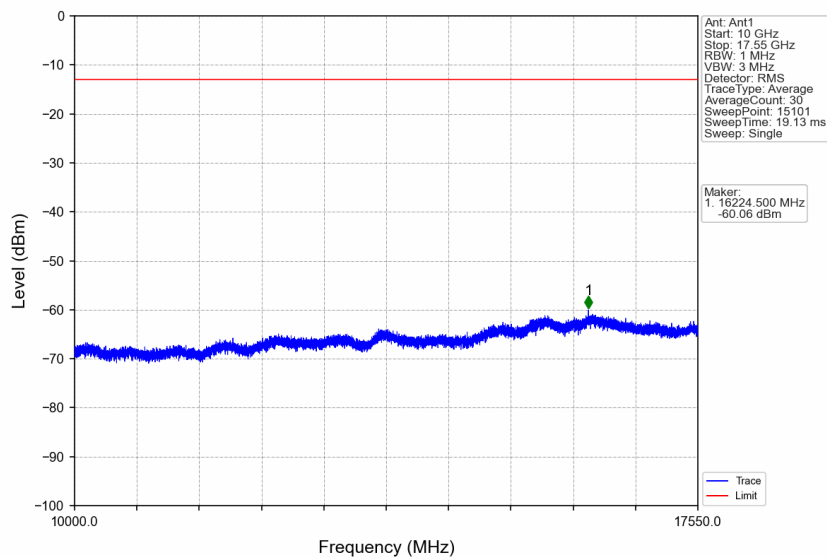
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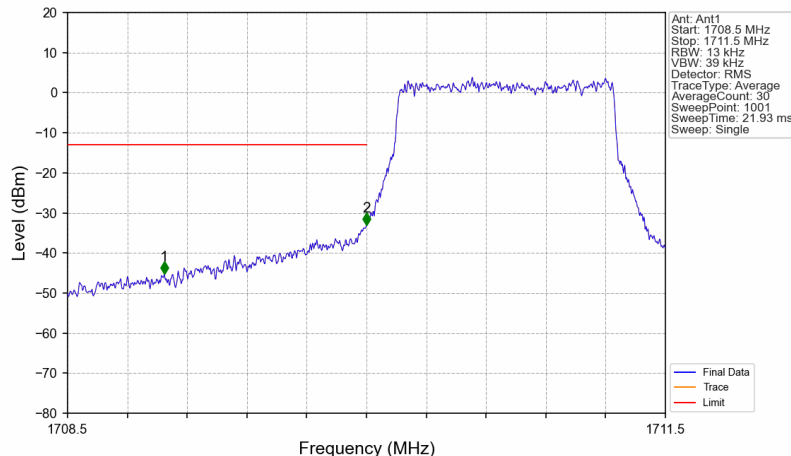
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Band4 1.4MHz 64QAM LCH 1710.7MHz RB 1 0 NTN



Band4 1.4MHz 64QAM LCH 1710.7MHz RB 6 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.986	-45.23	-13	Pass
1709	1710	0.013	/	2	1710.000	-33.08	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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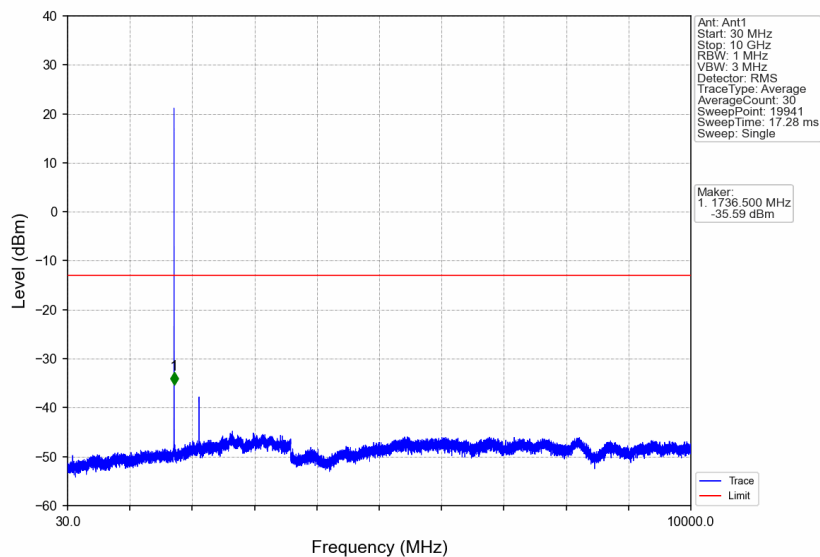
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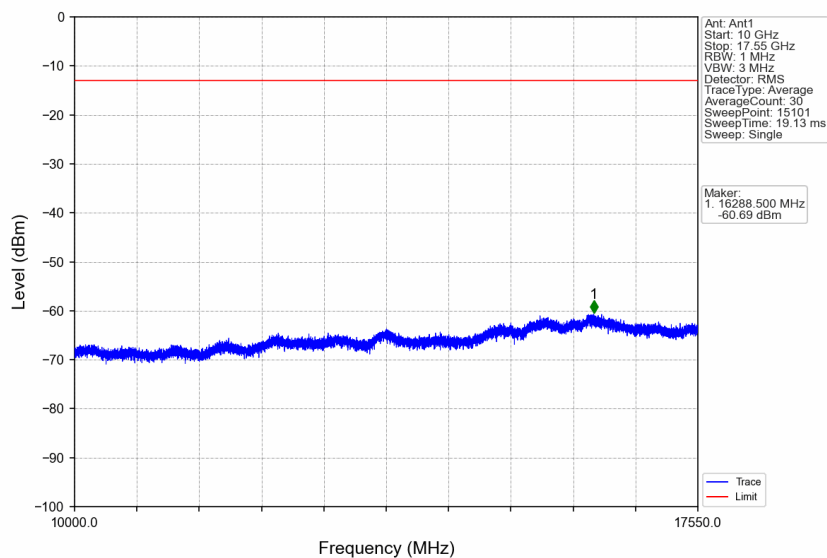
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Band4 1.4MHz 64QAM MCH 1732.5MHz RB 1 0 NTNV



Band4 1.4MHz 64QAM MCH 1732.5MHz RB 1 0 NTNV



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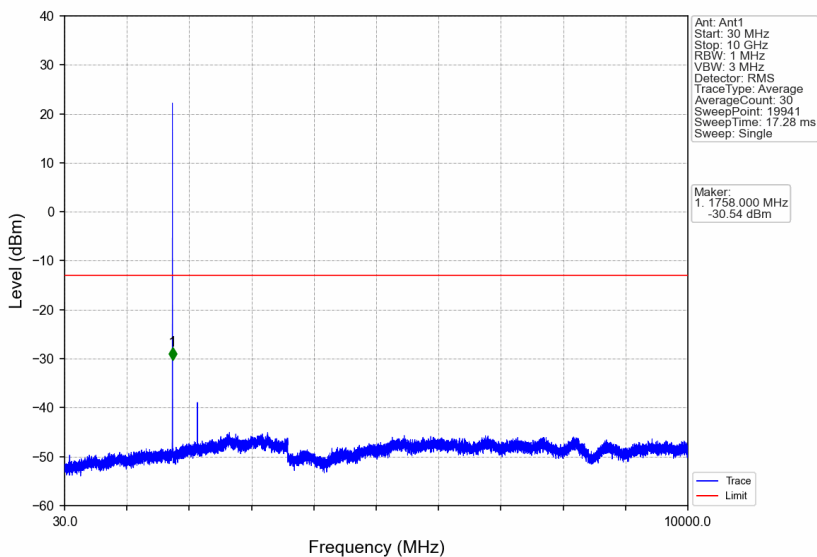
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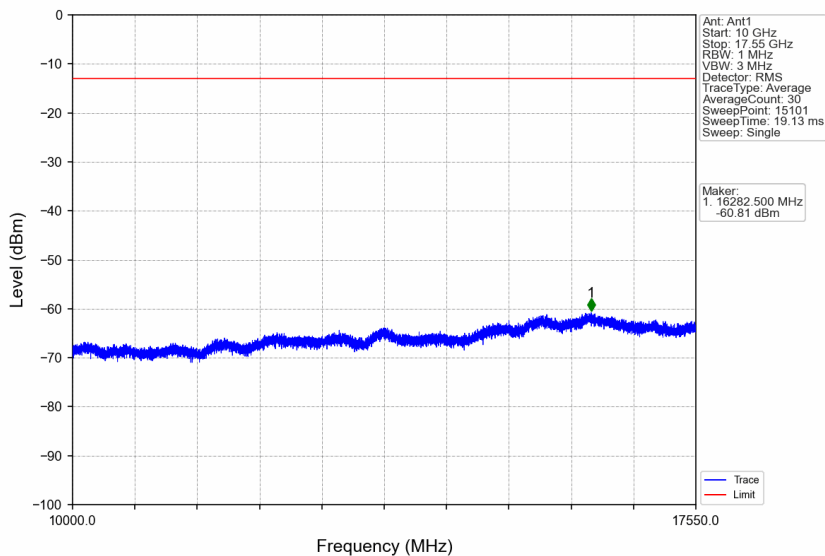
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Band4 1.4MHz 64QAM HCH 1754.3MHz RB 1 0 NTN



Band4 1.4MHz 64QAM HCH 1754.3MHz RB 1 0 NTN



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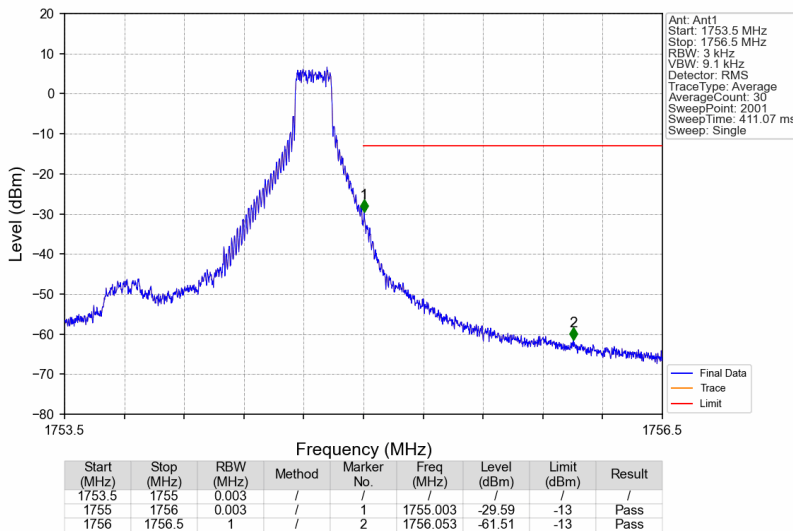
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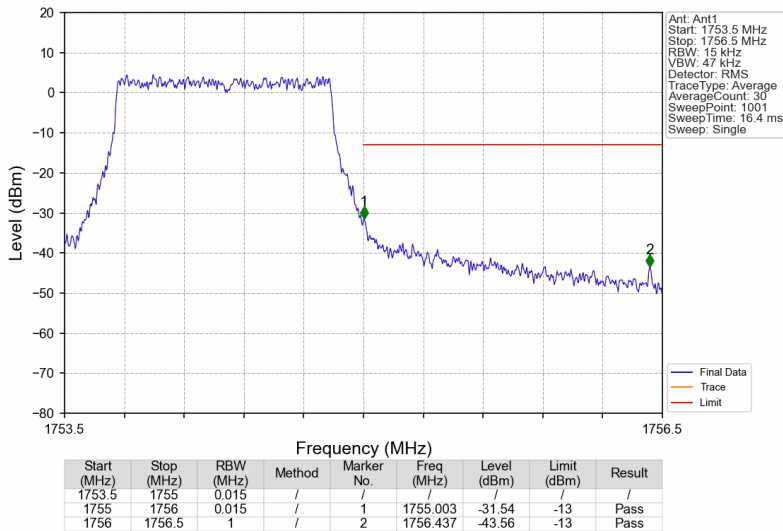
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Band4 1.4MHz 64QAM HCH 1754.3MHz RB_1_5 NTN



Band4 1.4MHz 64QAM HCH 1754.3MHz RB_6_0 NTN



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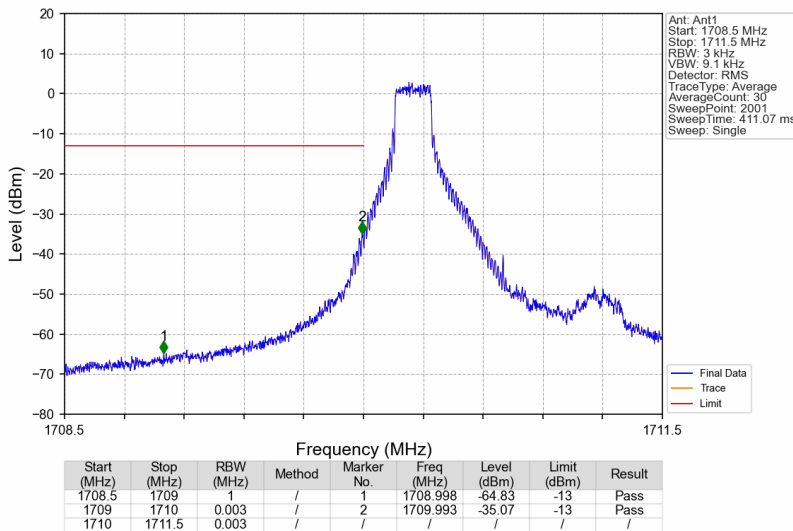
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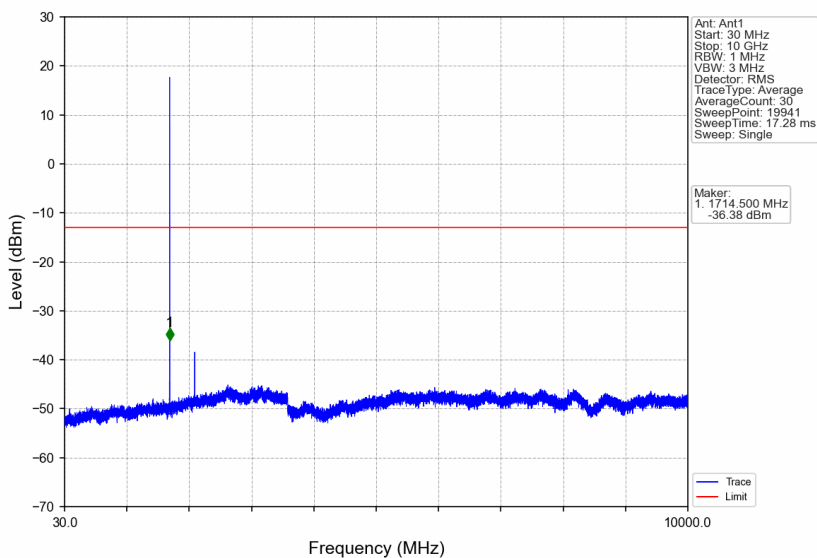
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Band4_1.4MHz_256QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_256QAM_LCH_1710.7MHz_RB_1_0_NTNV



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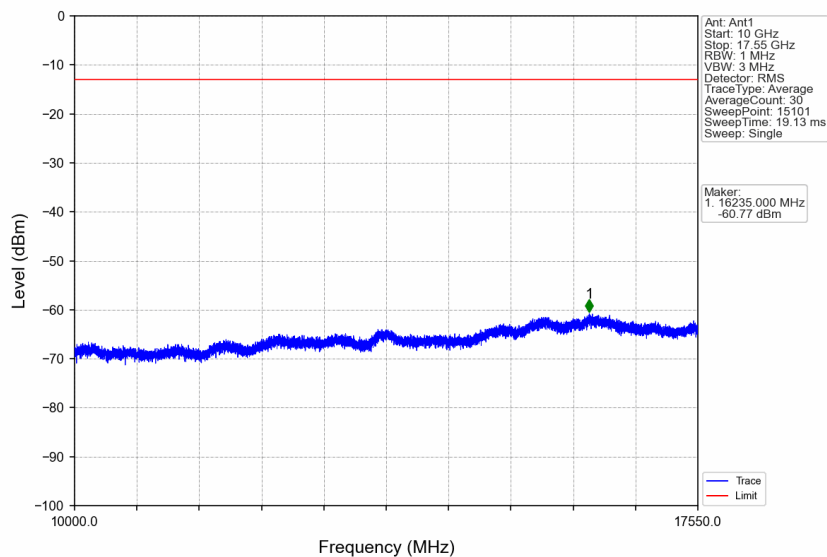
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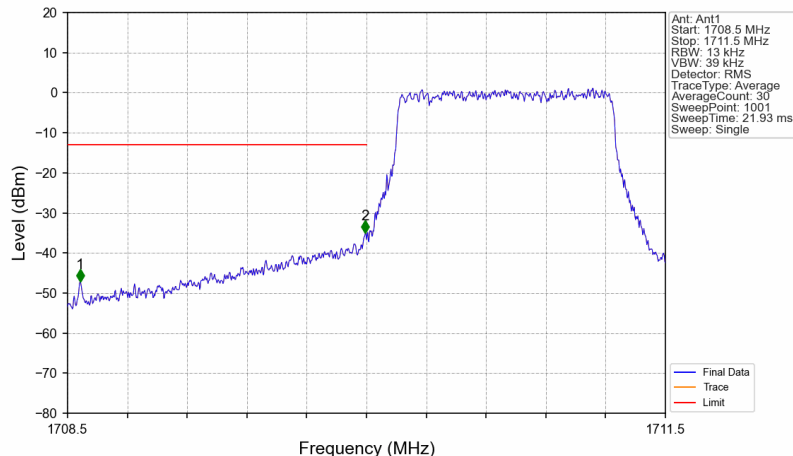
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Band4_1.4MHz_256QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_256QAM_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	1708.563	-47.14	-13	Pass
1709	1710	0.013	/	2	1709.994	-35.07	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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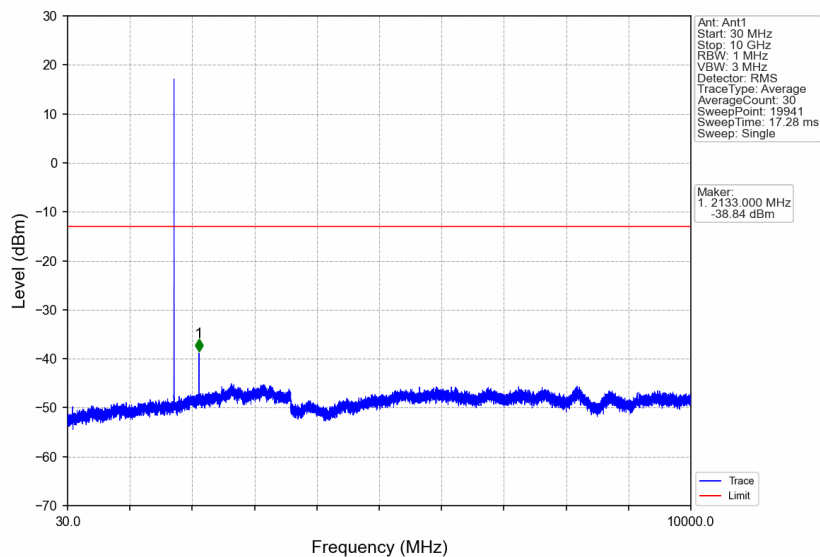
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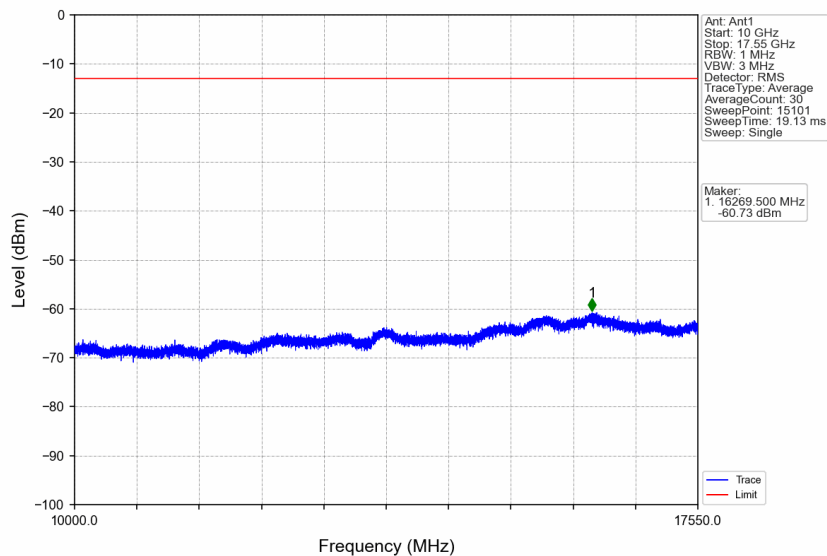
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Band4_1.4MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV



Band4_1.4MHz_256QAM_MCH_1732.5MHz_RB_1_0_NTNV



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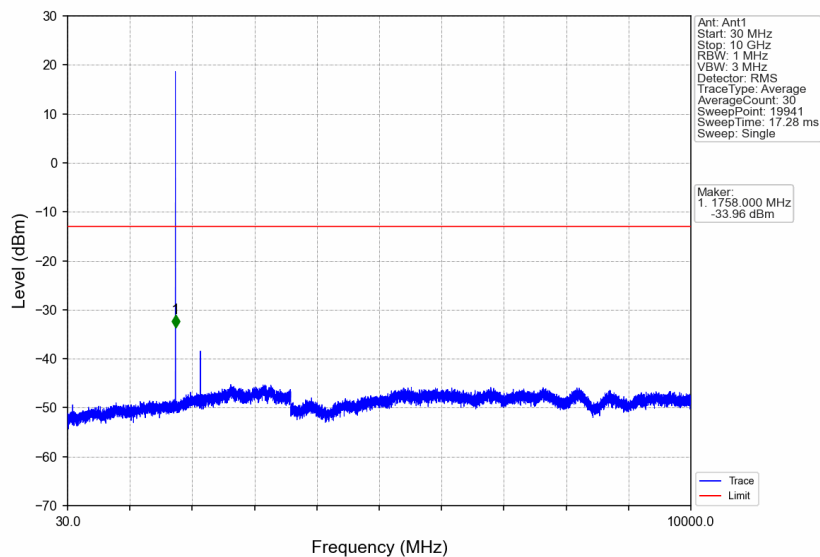
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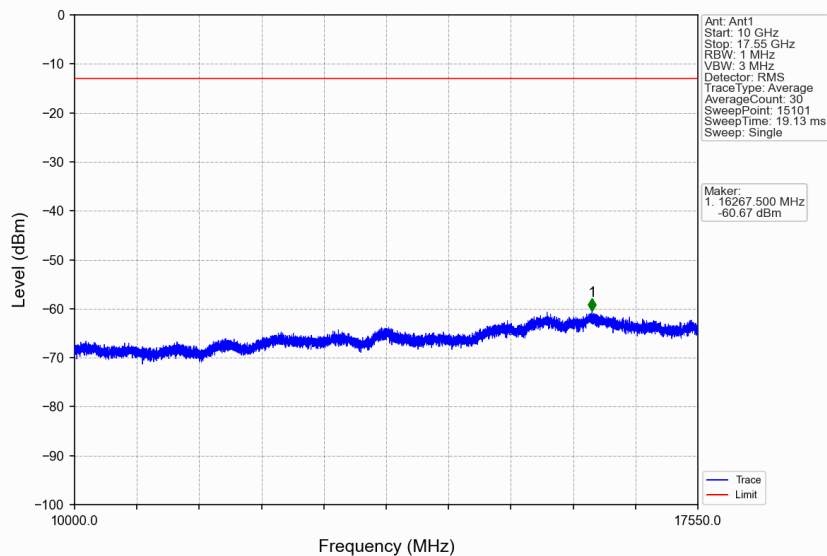
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Band4_1.4MHz_256QAM_HCH_1754.3MHz_RB_1_0_NTNV



Band4_1.4MHz_256QAM_HCH_1754.3MHz_RB_1_0_NTNV



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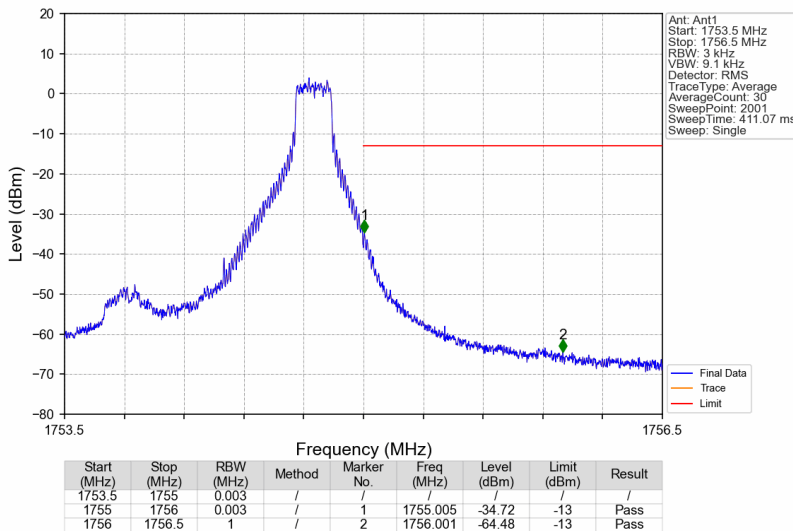
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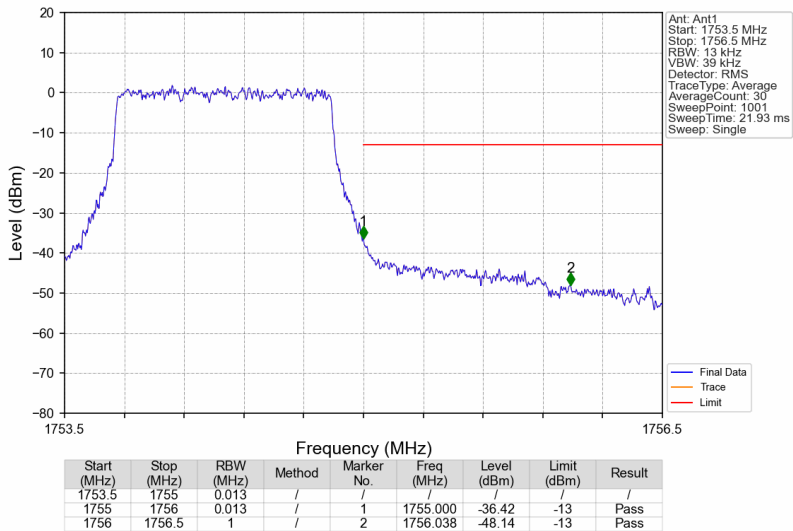
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Band4_1.4MHz_256QAM_HCH_1754.3MHz_RB_6_0_NTNV



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5.2 B4_3MHz

5.2.1 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
		1	0	Refer To Test Graph		Pass
		15	0	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
		1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
64QAM	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
		1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
256QAM	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
		1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass



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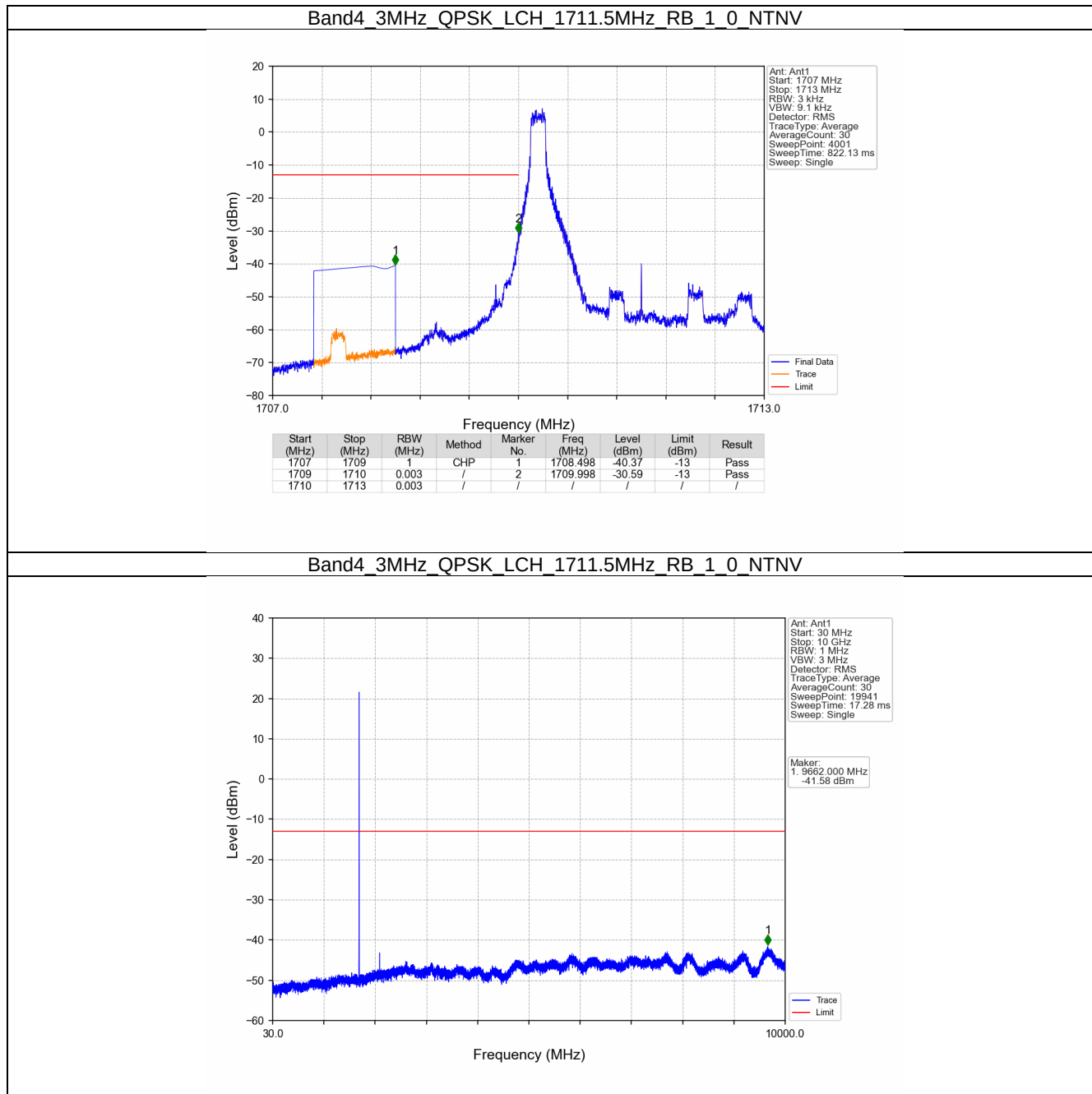
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5.2.2 Test Graph



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