

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	5.41	<=13	Pass
	1732.5	50	0	5.42	<=13	Pass
	1750	50	0	5.38	<=13	Pass
16QAM	1715	50	0	6.54	<=13	Pass
	1732.5	50	0	6.49	<=13	Pass
	1750	50	0	6.55	<=13	Pass
64QAM	1715	50	0	6.77	<=13	Pass
	1732.5	50	0	6.74	<=13	Pass
	1750	50	0	6.79	<=13	Pass



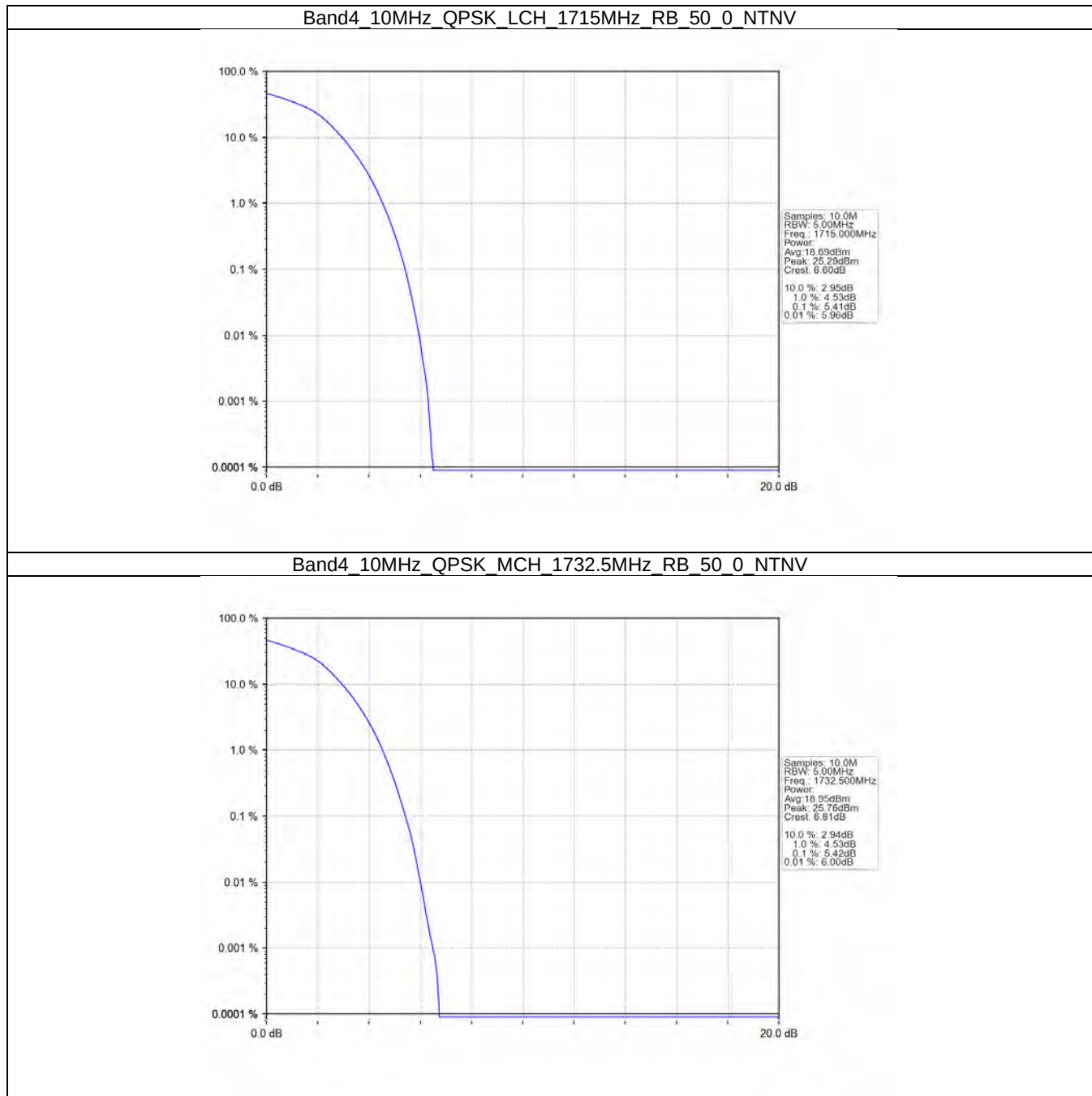
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5.4.2 Test Graph



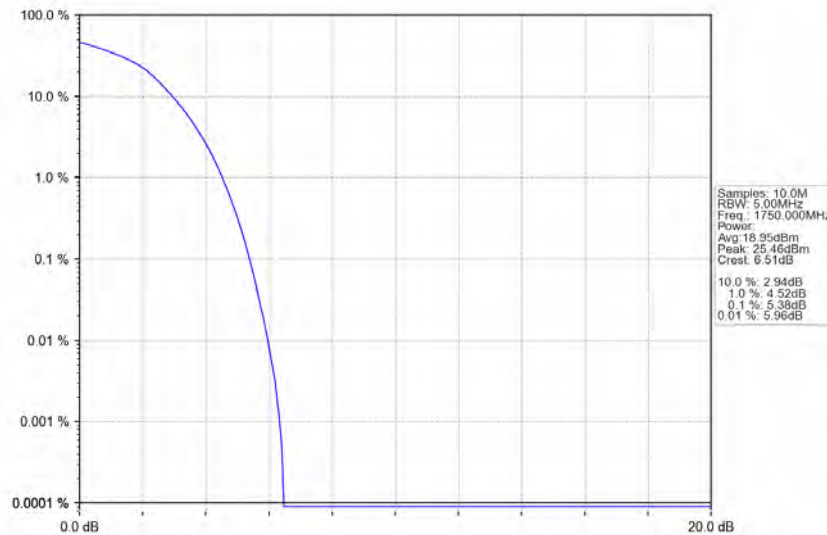
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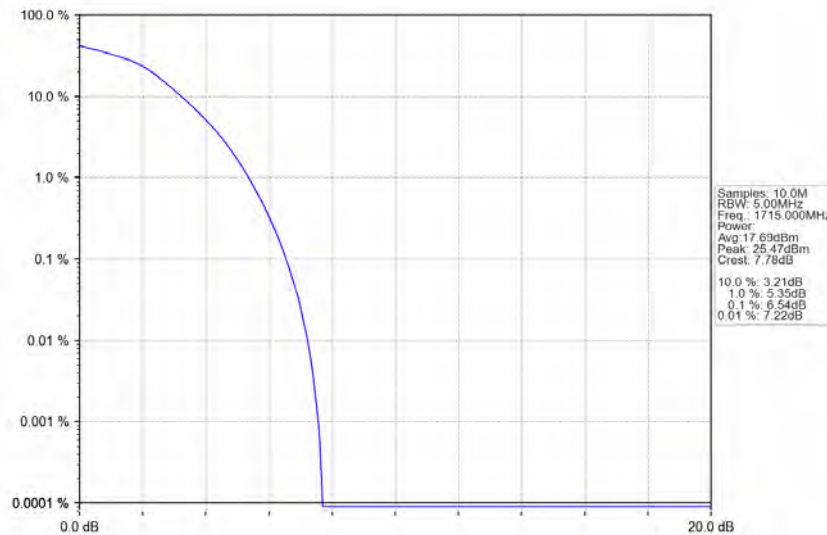
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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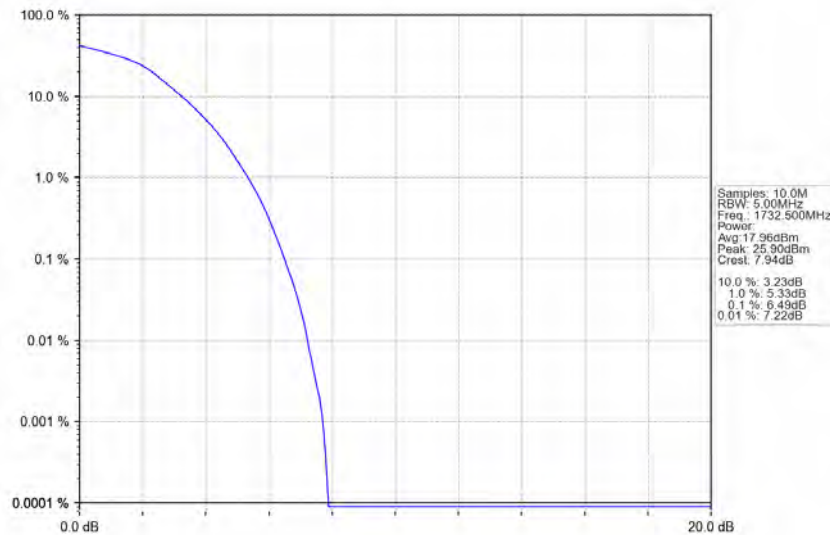
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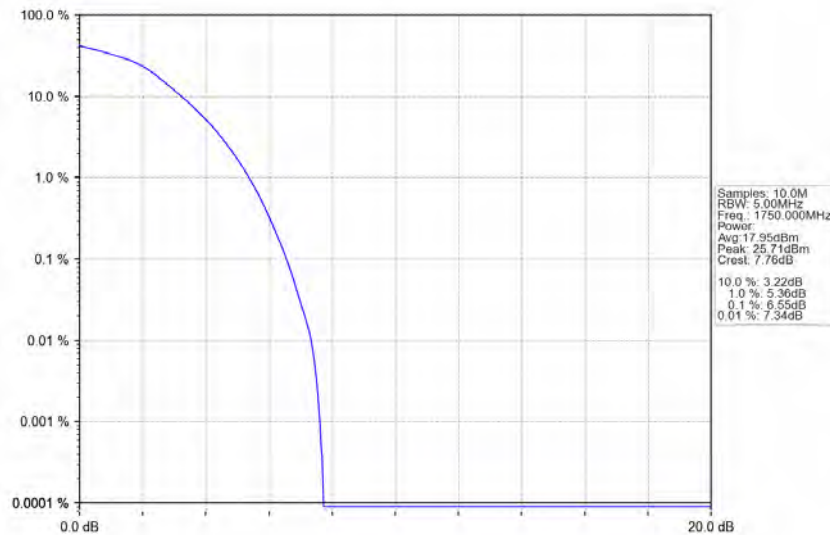
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



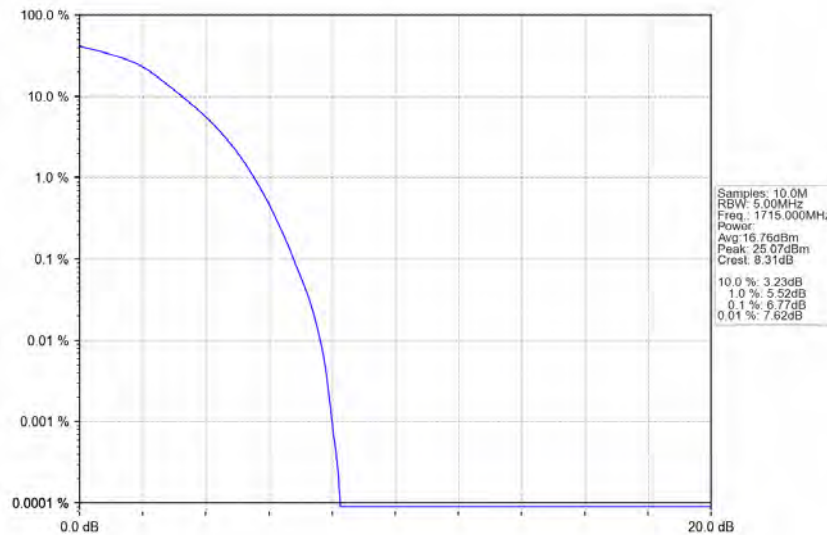
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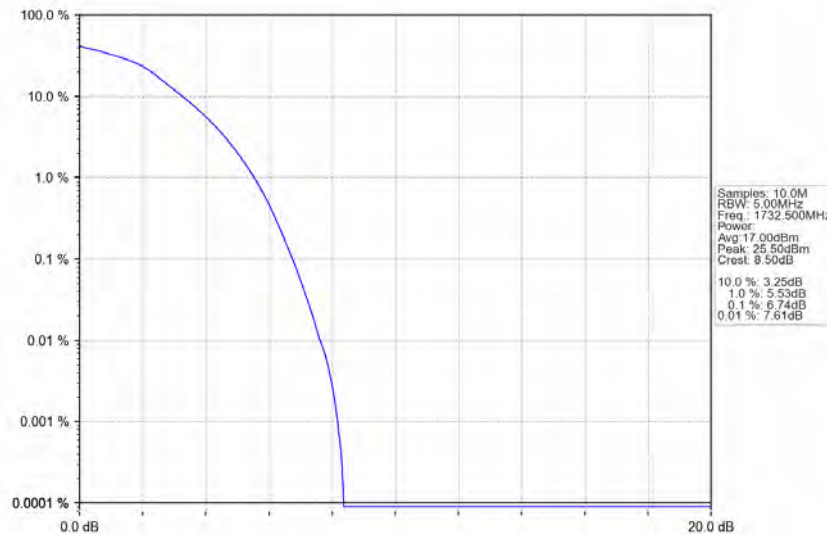
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Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV



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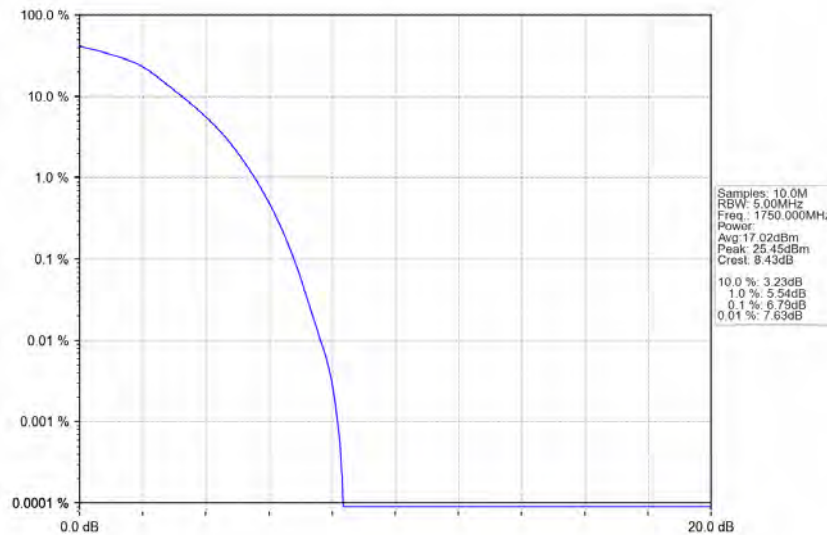
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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV



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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	6.33	<=13	Pass
	1732.5	75	0	6.30	<=13	Pass
	1747.5	75	0	6.31	<=13	Pass
16QAM	1717.5	75	0	7.01	<=13	Pass
	1732.5	75	0	7.11	<=13	Pass
	1747.5	75	0	7.12	<=13	Pass
64QAM	1717.5	75	0	7.23	<=13	Pass
	1732.5	75	0	7.24	<=13	Pass
	1747.5	75	0	7.22	<=13	Pass



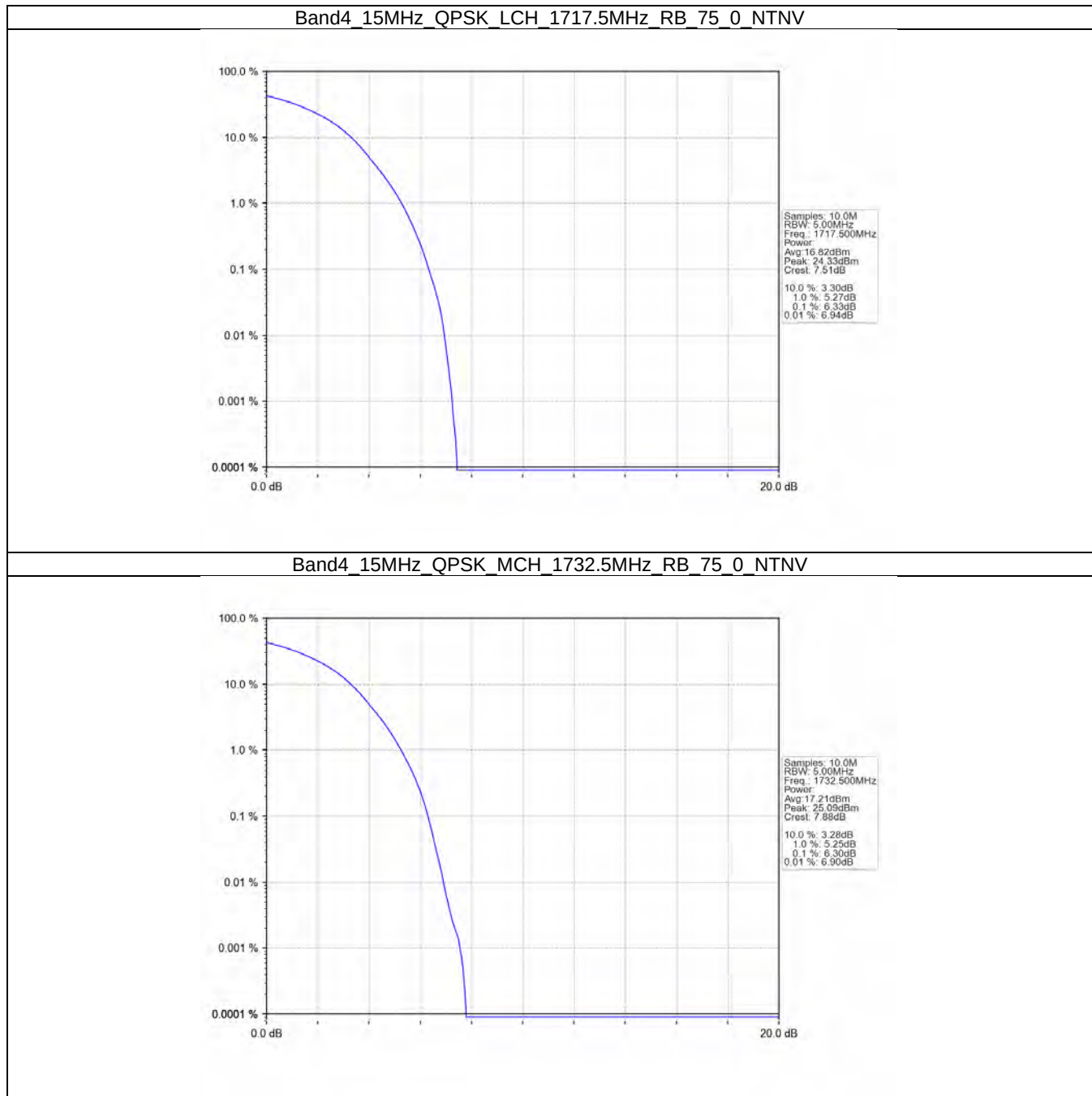
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5.5.2 Test Graph



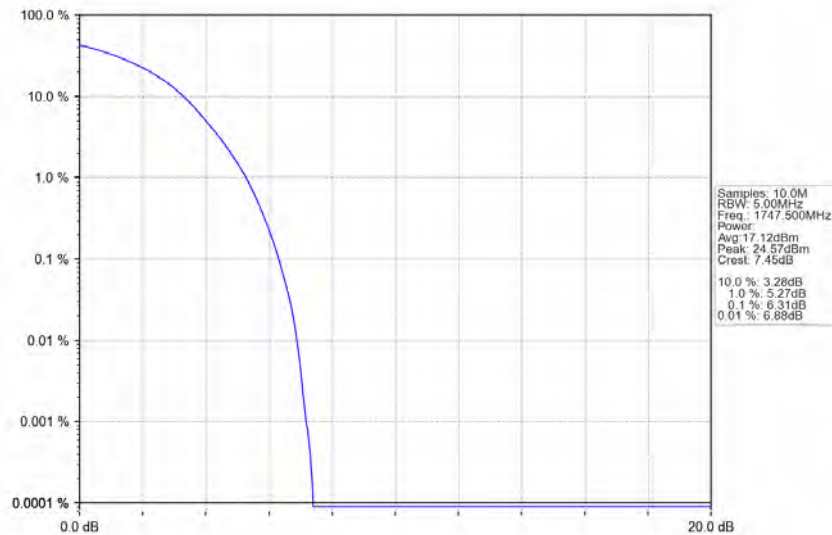
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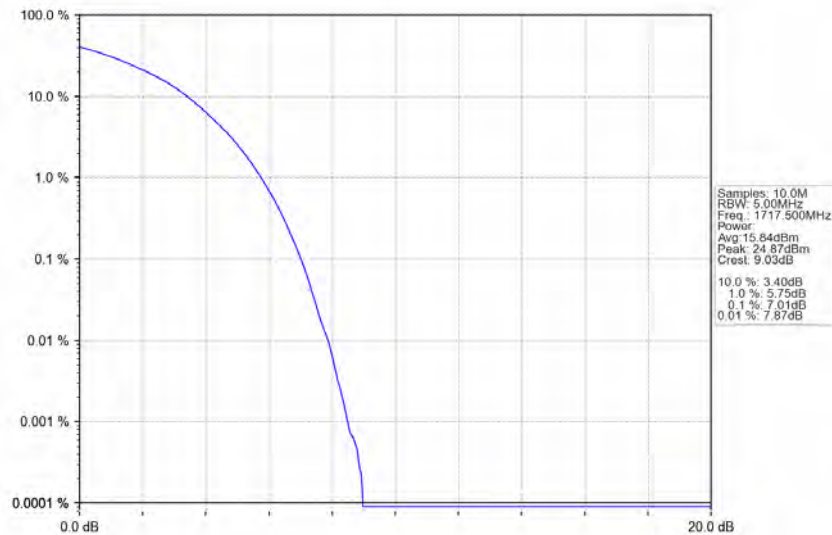
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



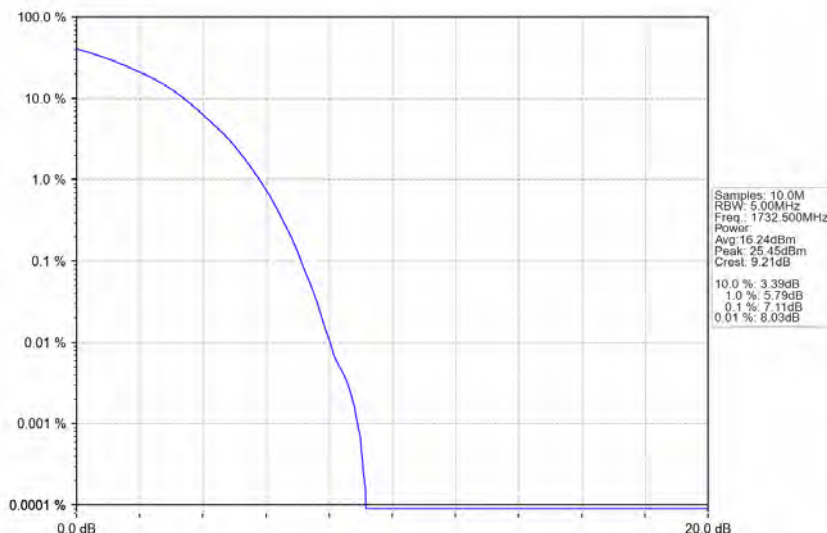
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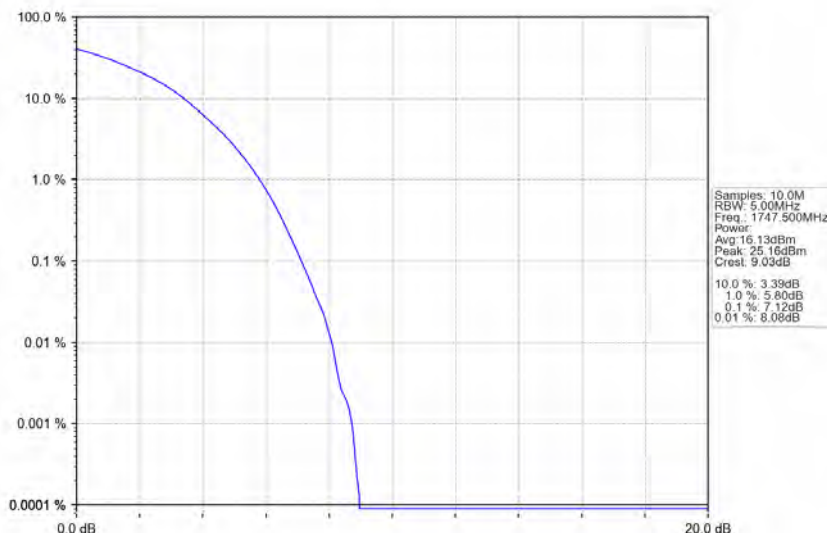
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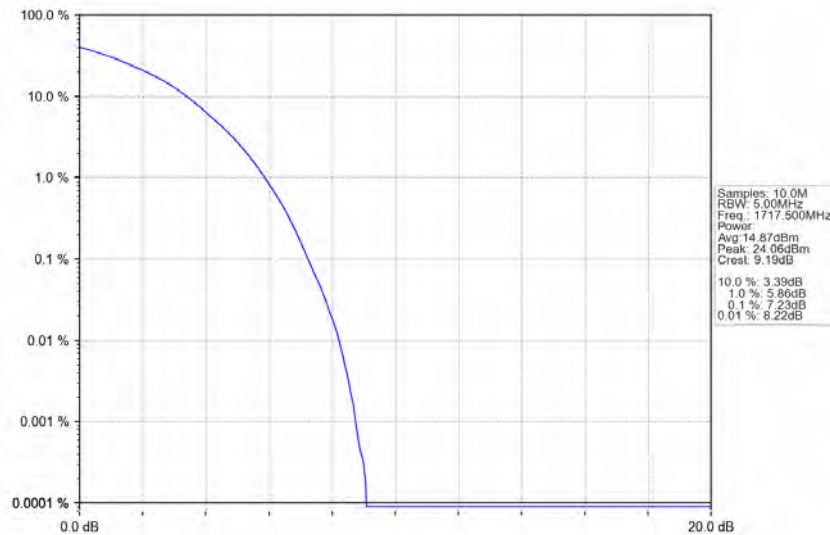
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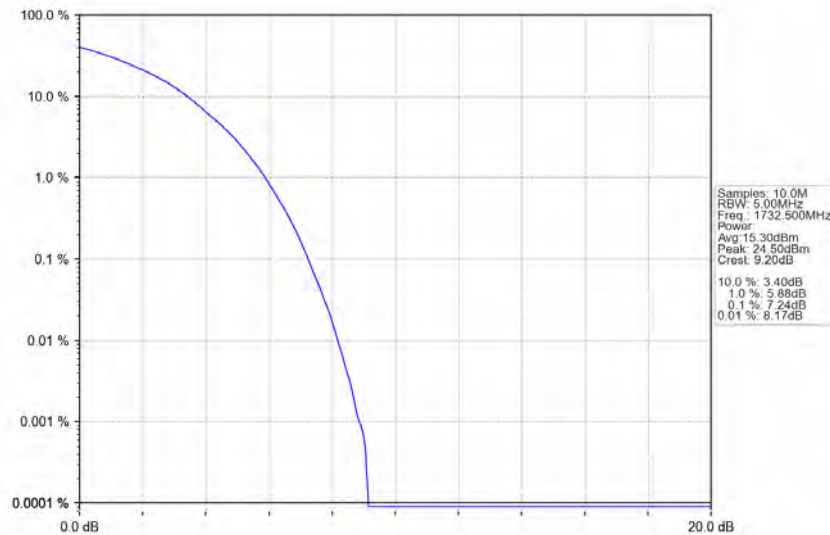
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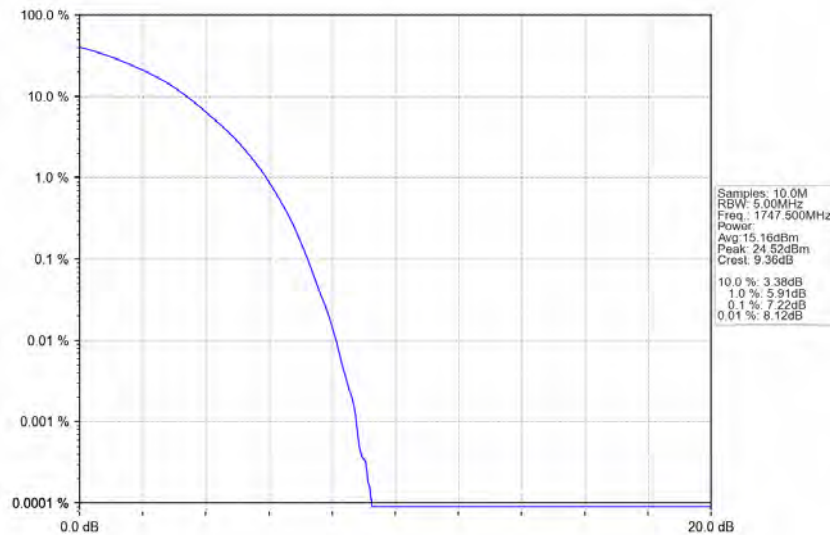
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5.6 B4_20MHz

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	6.87	<=13	Pass
	1732.5	100	0	6.81	<=13	Pass
	1745	100	0	6.79	<=13	Pass
16QAM	1720	100	0	7.41	<=13	Pass
	1732.5	100	0	7.42	<=13	Pass
	1745	100	0	7.36	<=13	Pass
64QAM	1720	100	0	7.49	<=13	Pass
	1732.5	100	0	7.49	<=13	Pass
	1745	100	0	7.50	<=13	Pass



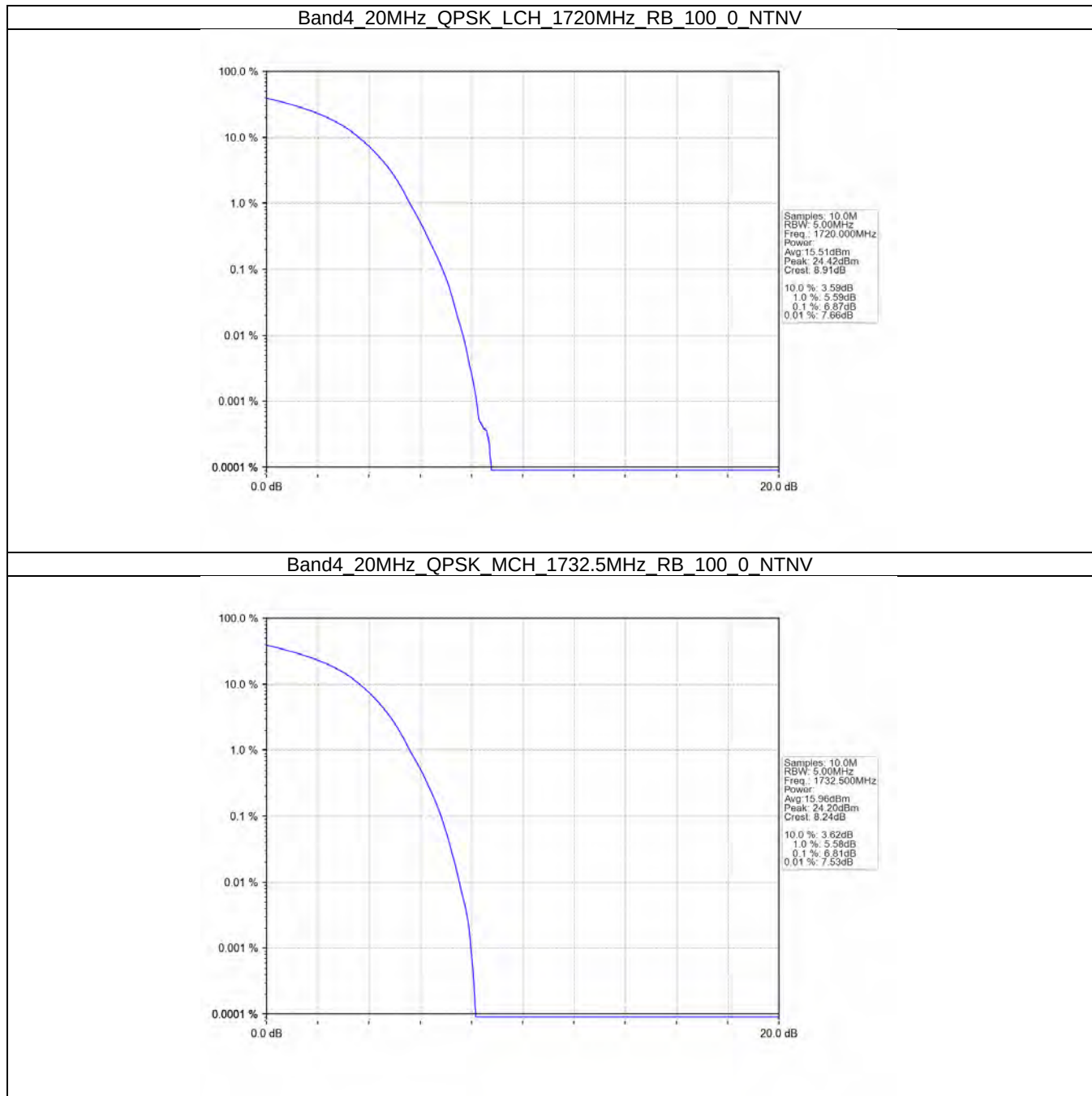
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5.6.2 Test Graph



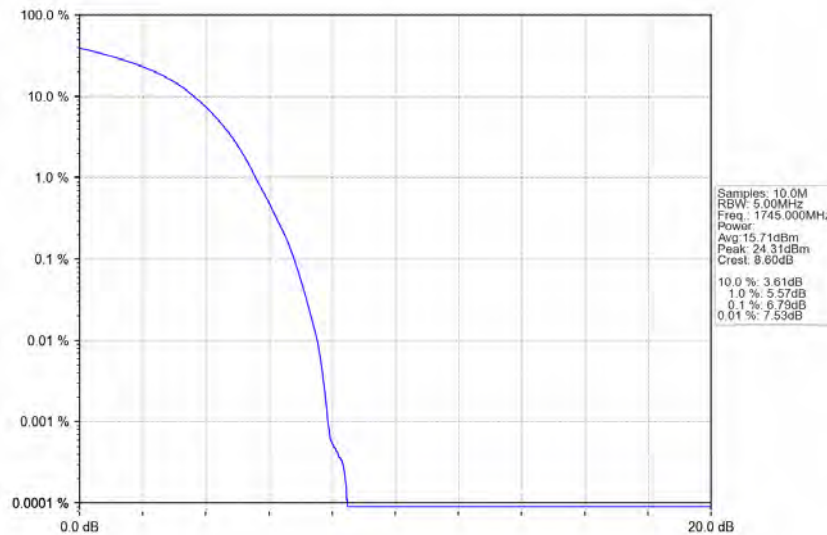
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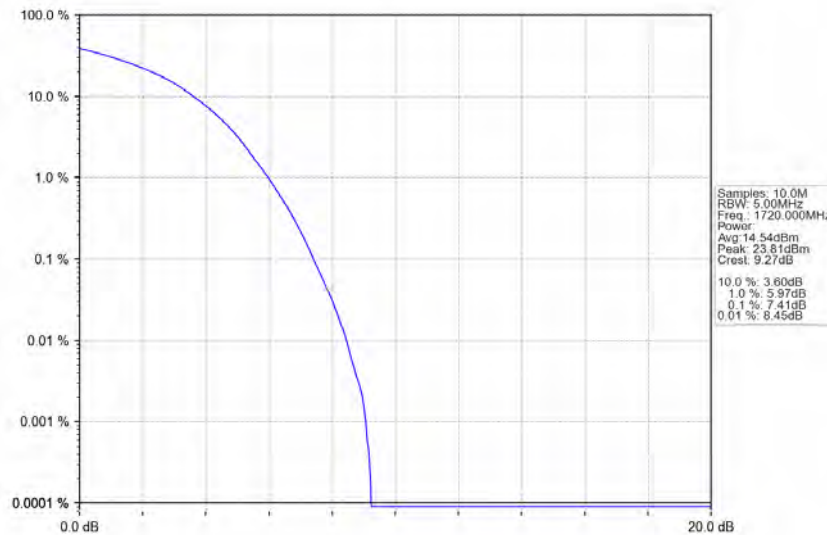
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



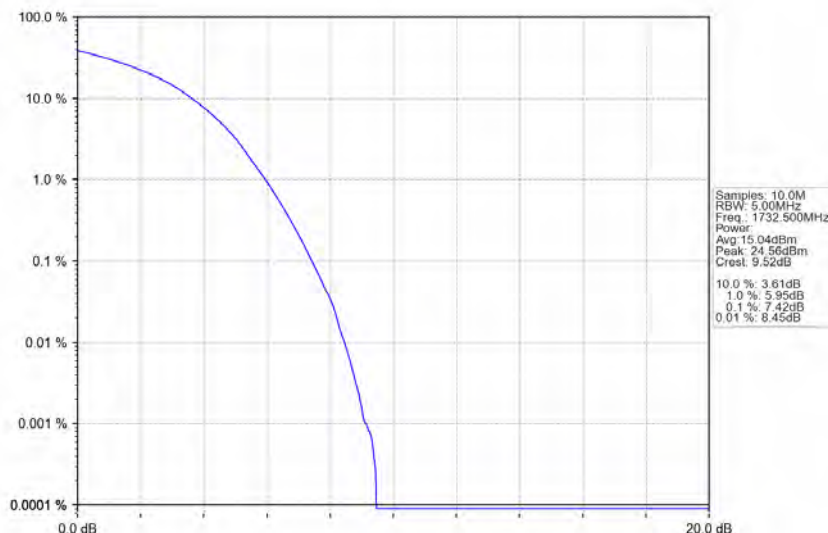
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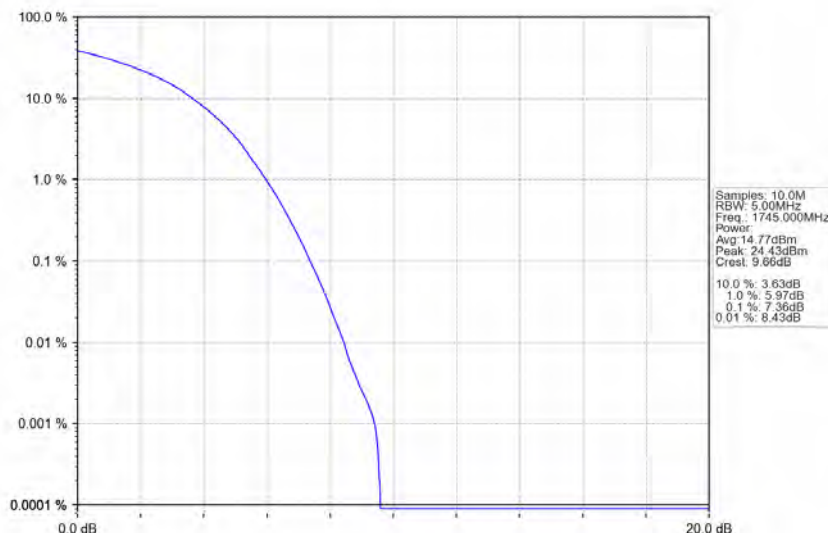
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Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



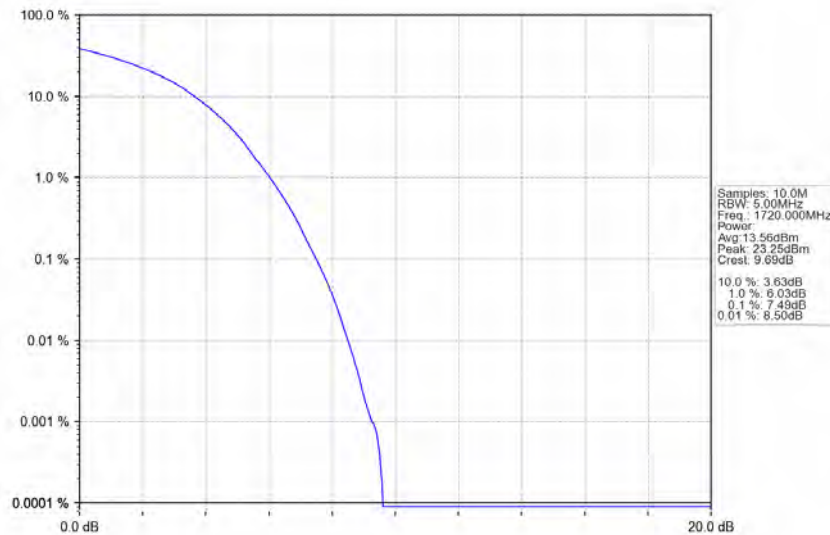
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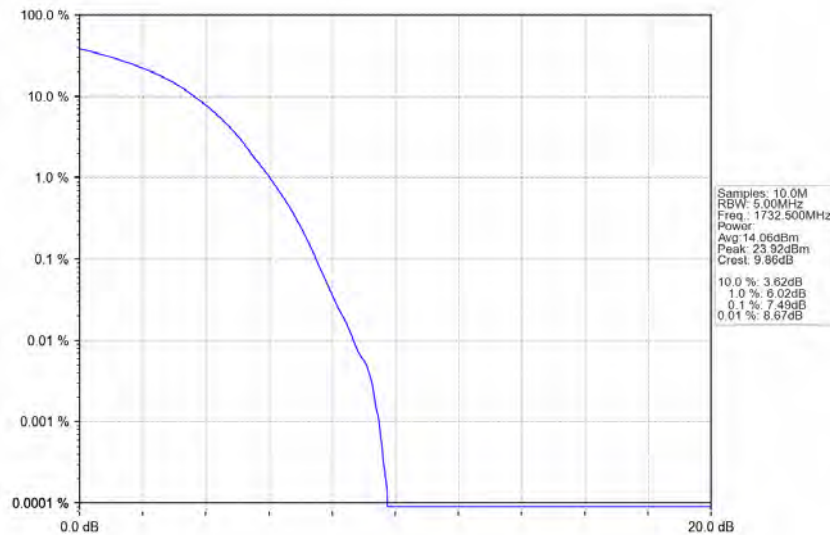
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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV



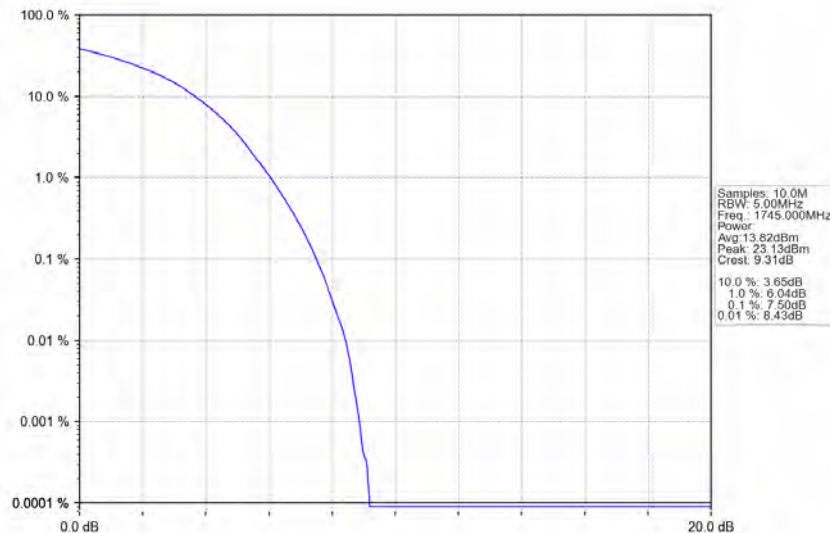
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6. Spurious Emission

6.1 B4_1.4MHz

6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
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



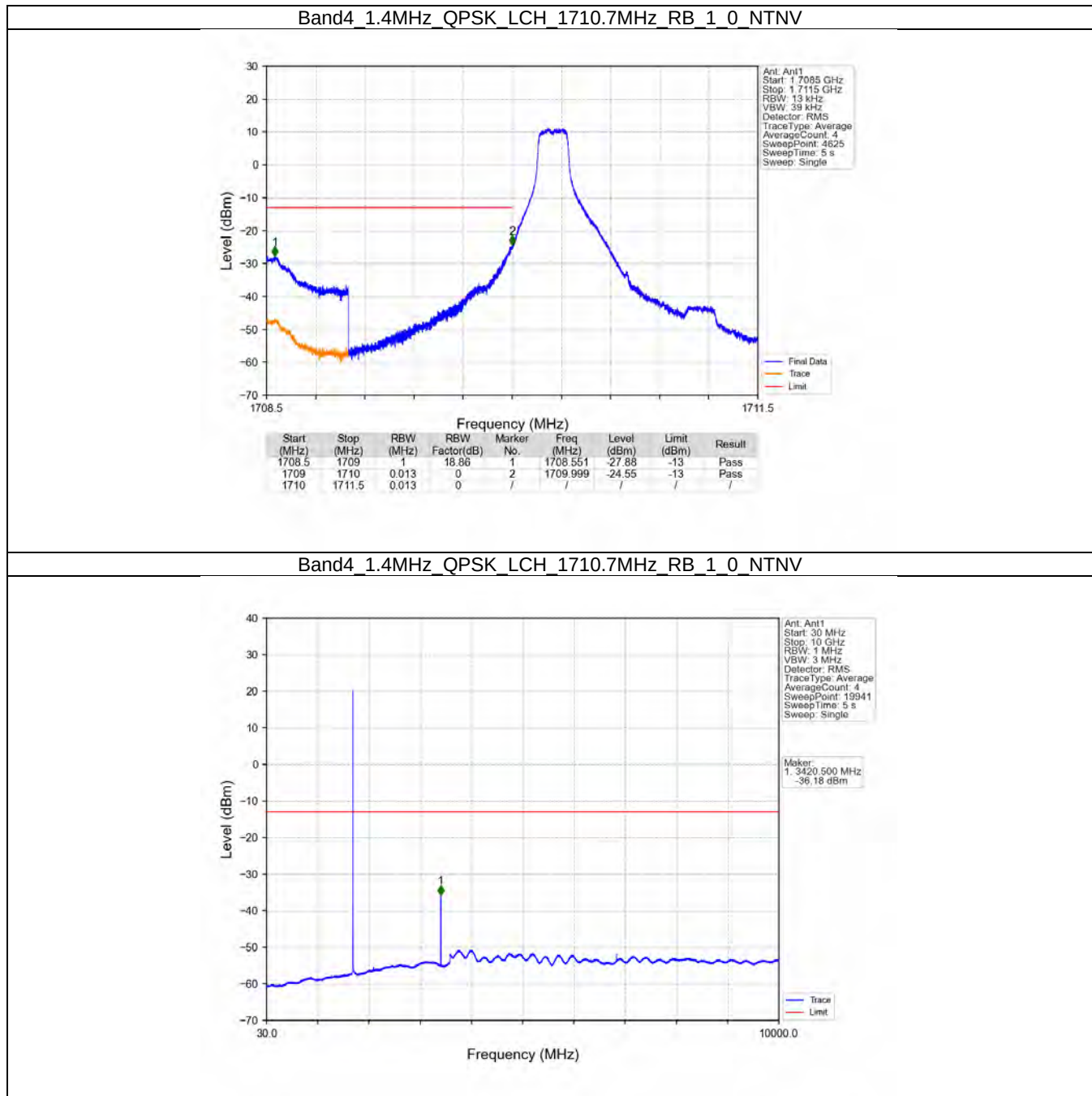
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6.1.2 Test Graph



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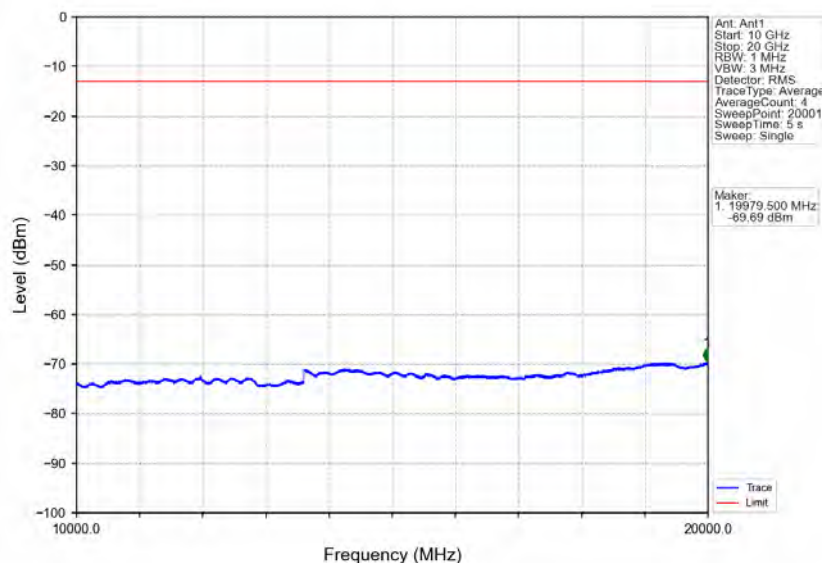
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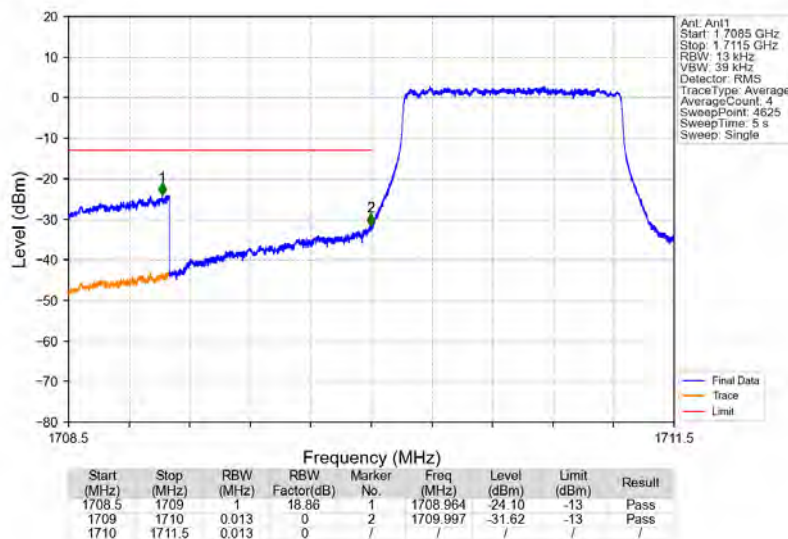
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Band4 1.4MHz QPSK LCH 1710.7MHz RB 1 0 NTV



Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTV



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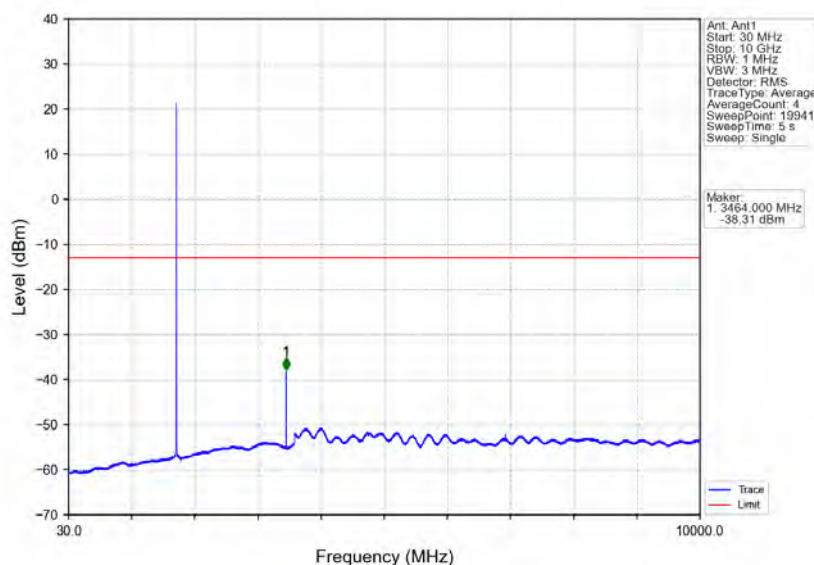
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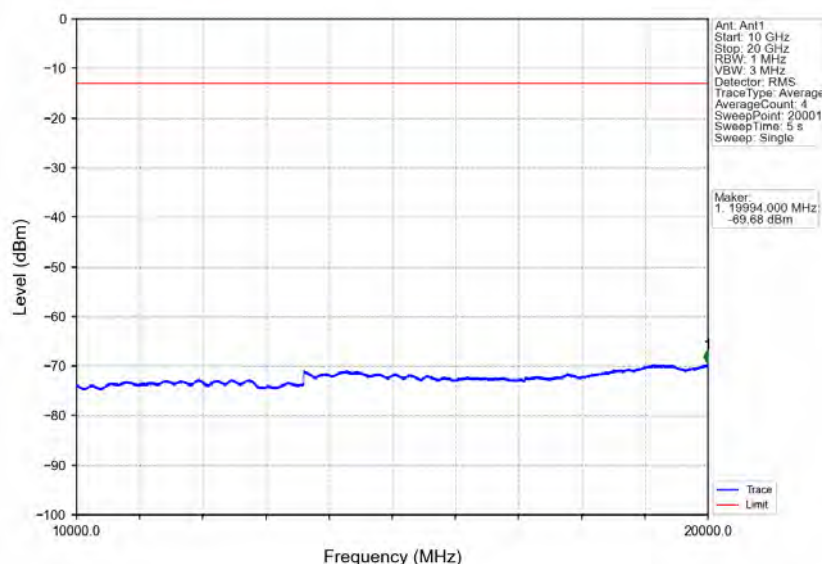
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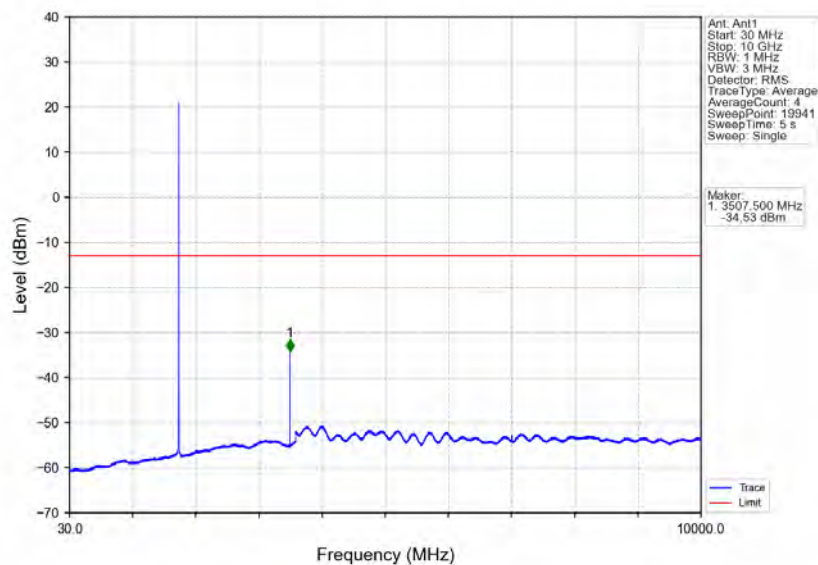
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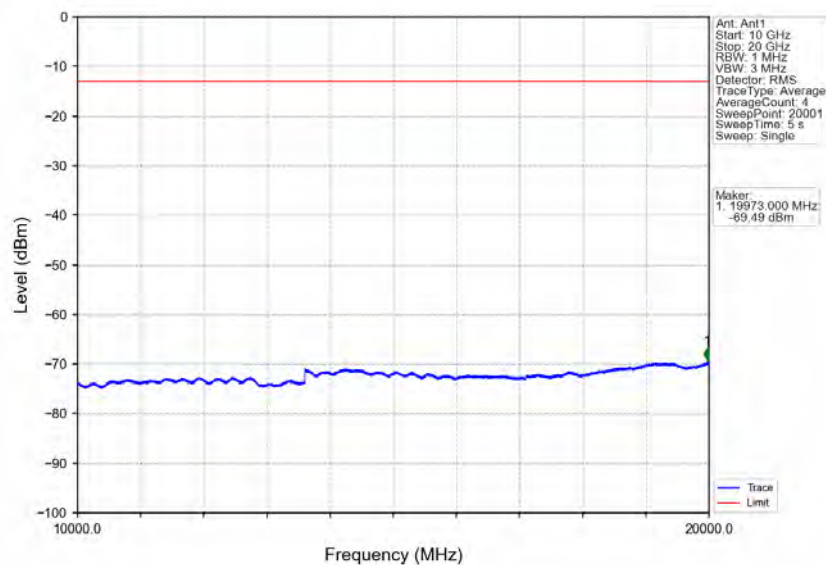
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTNV



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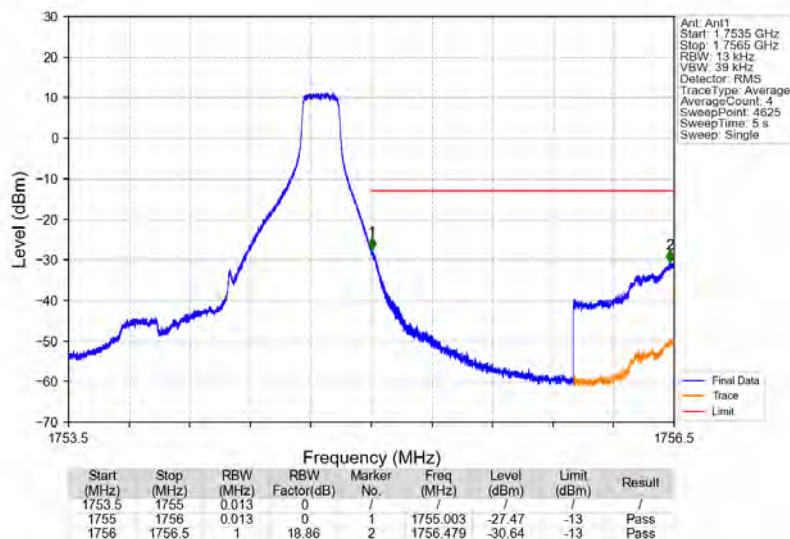
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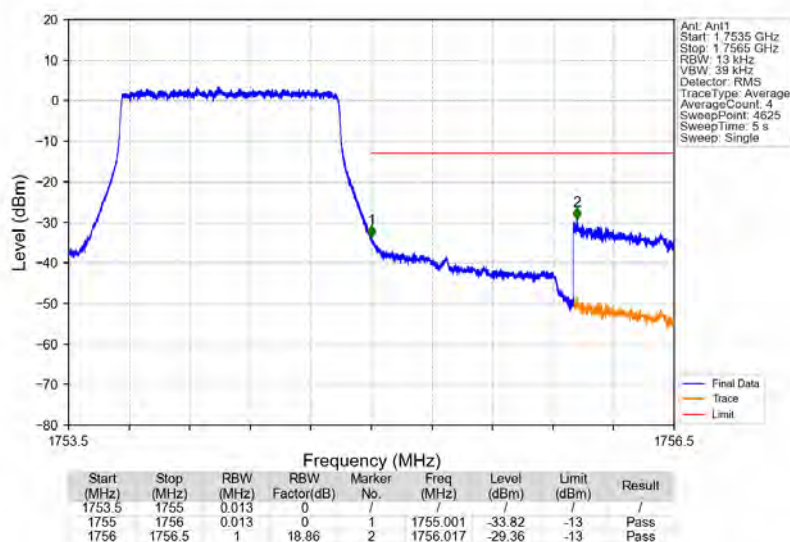
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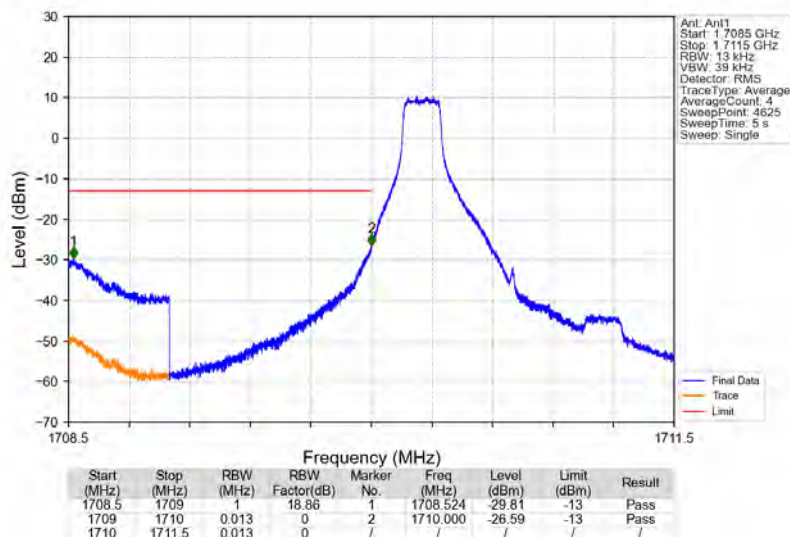
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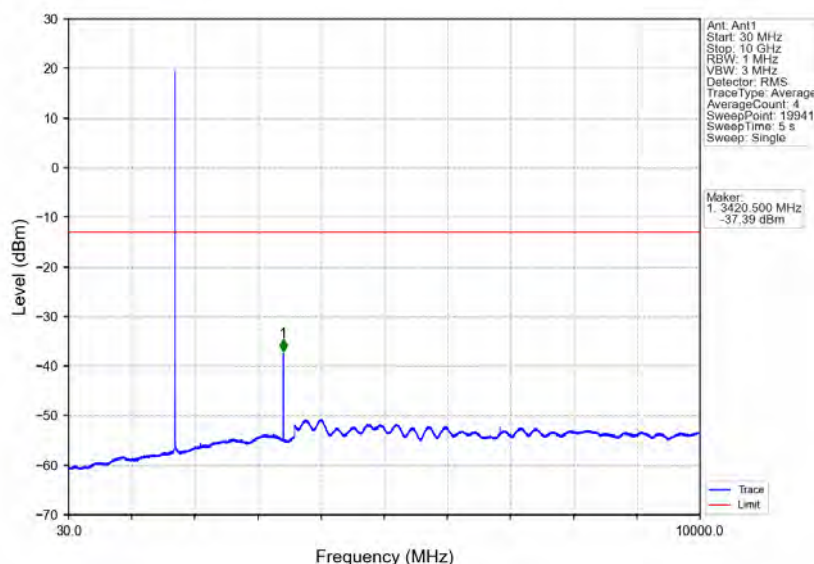
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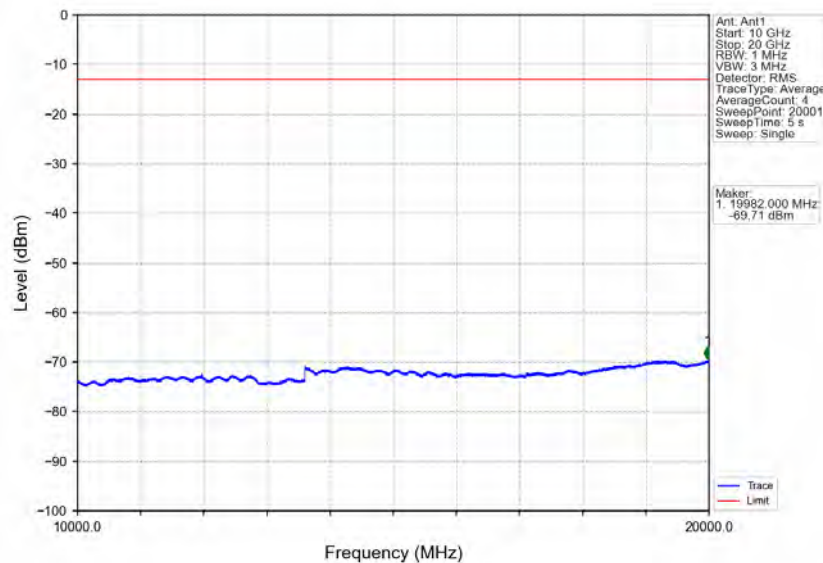
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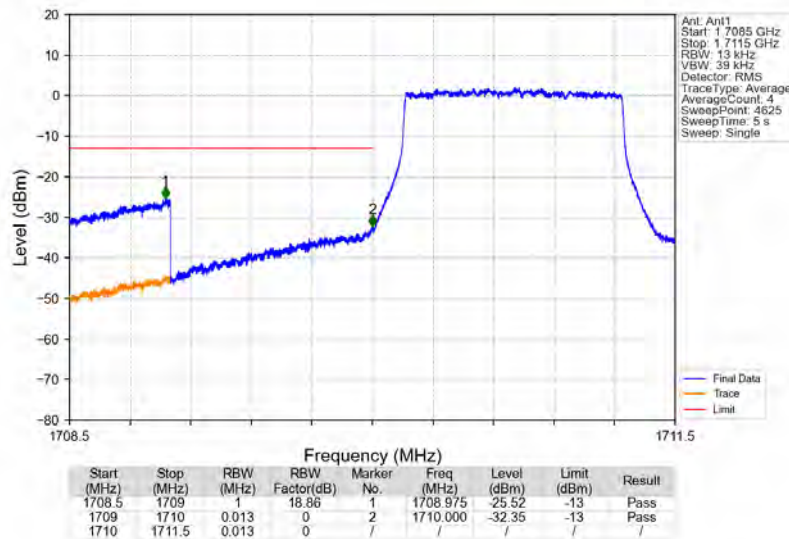
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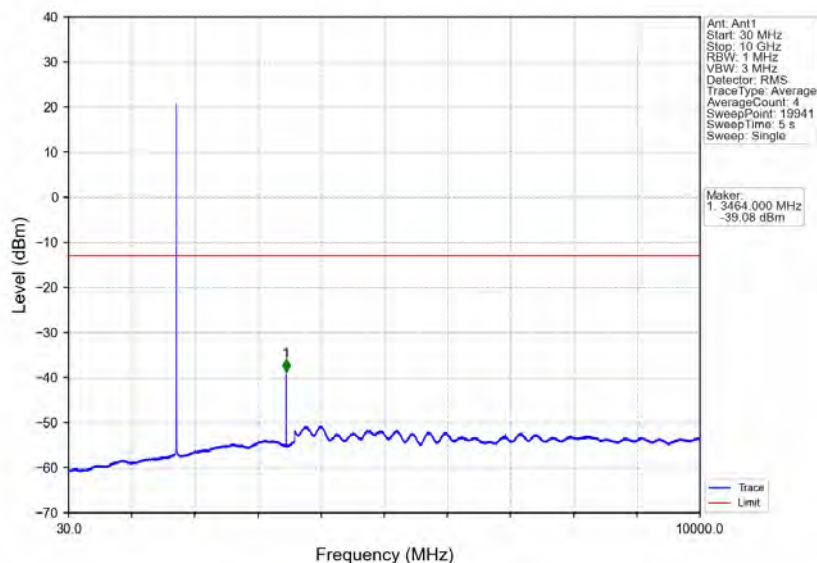
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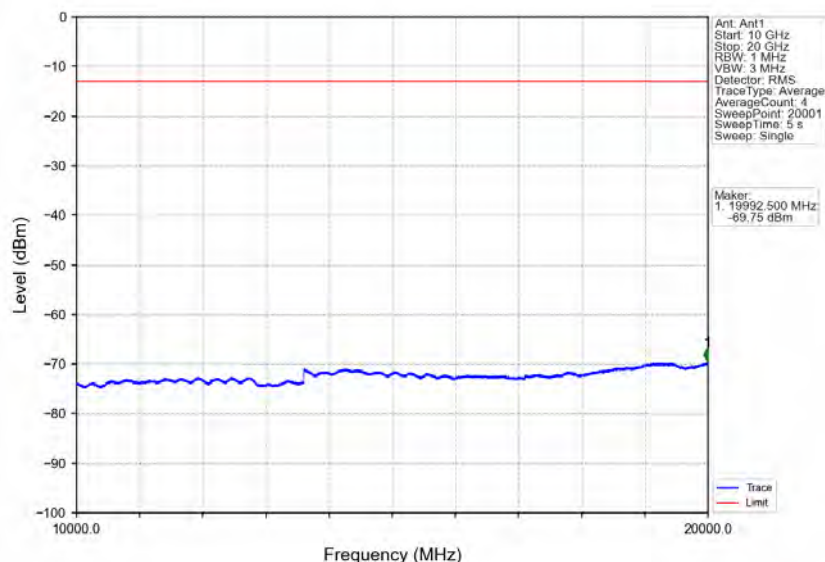
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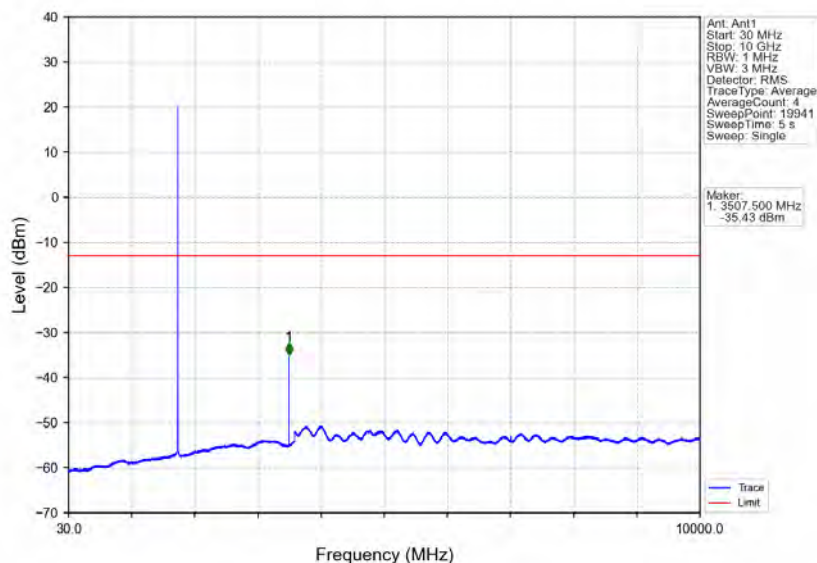
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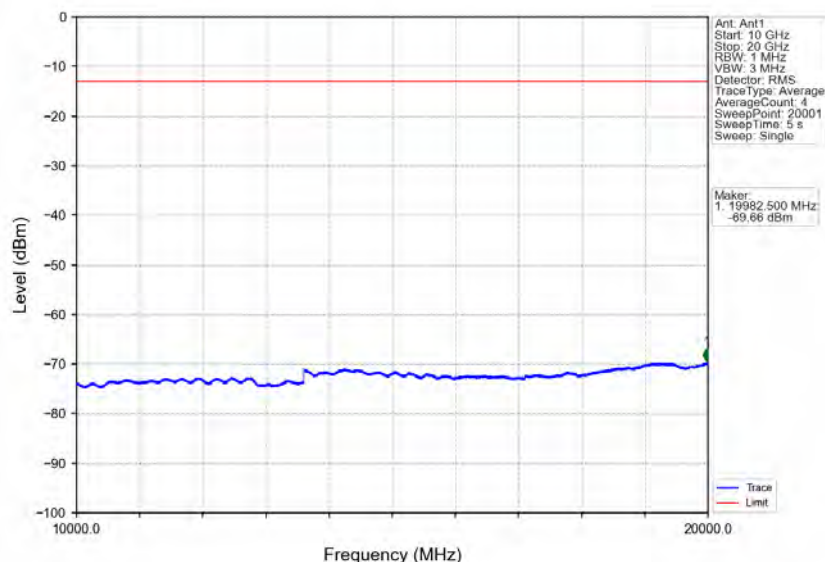
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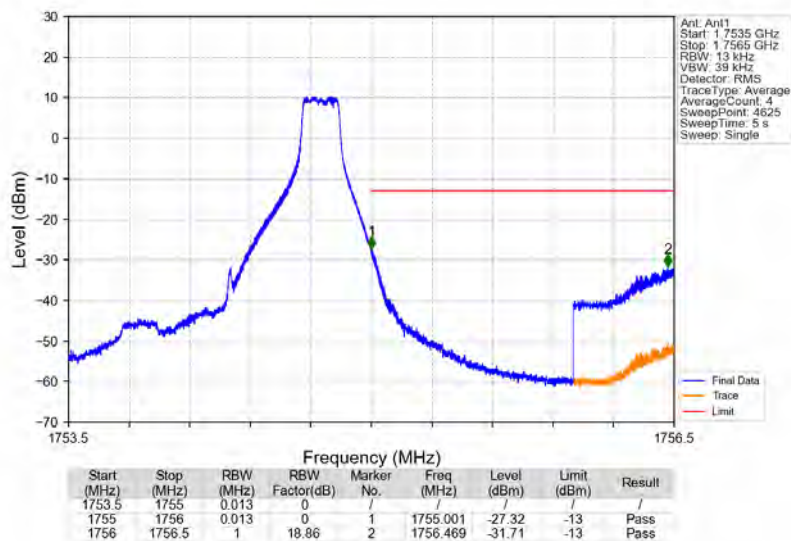
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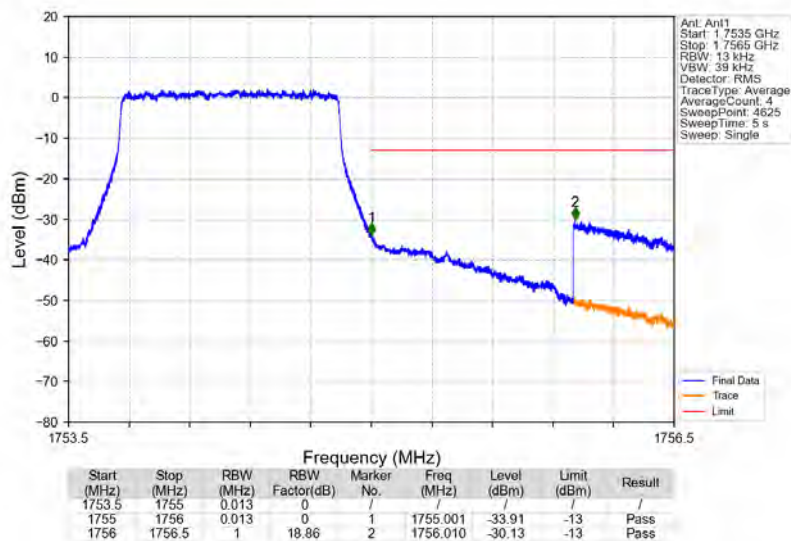
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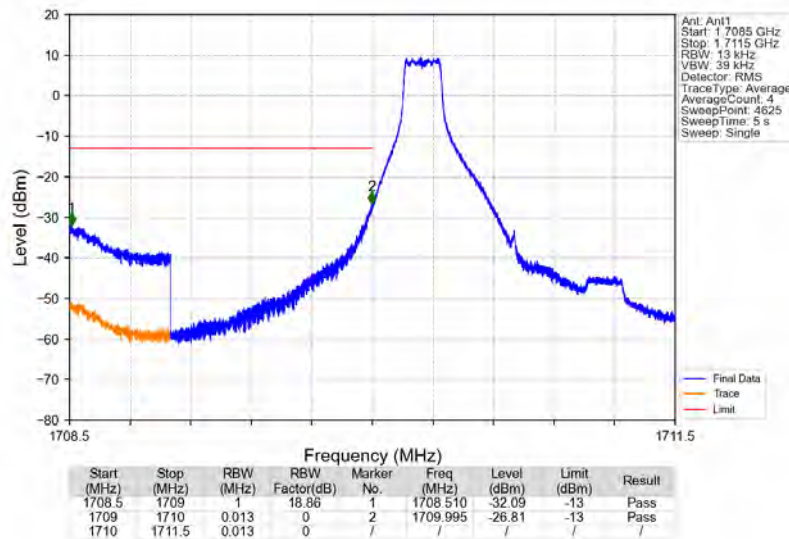
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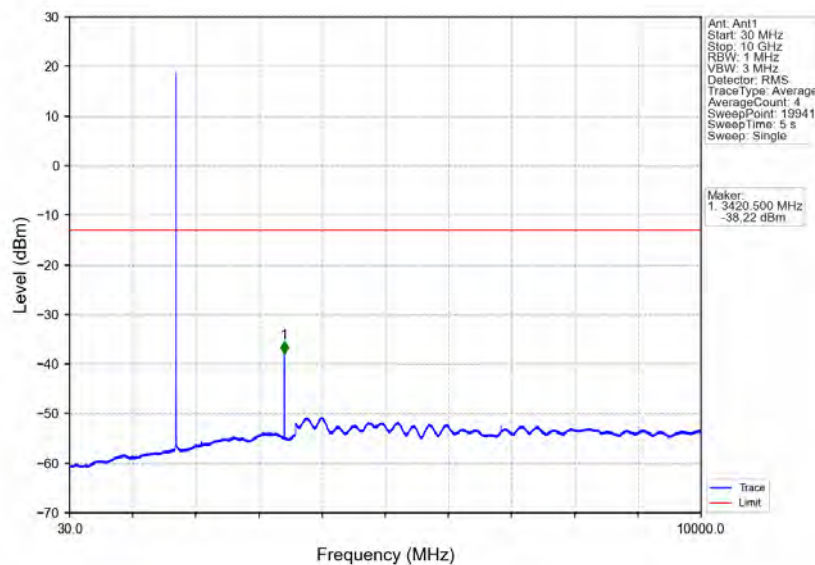
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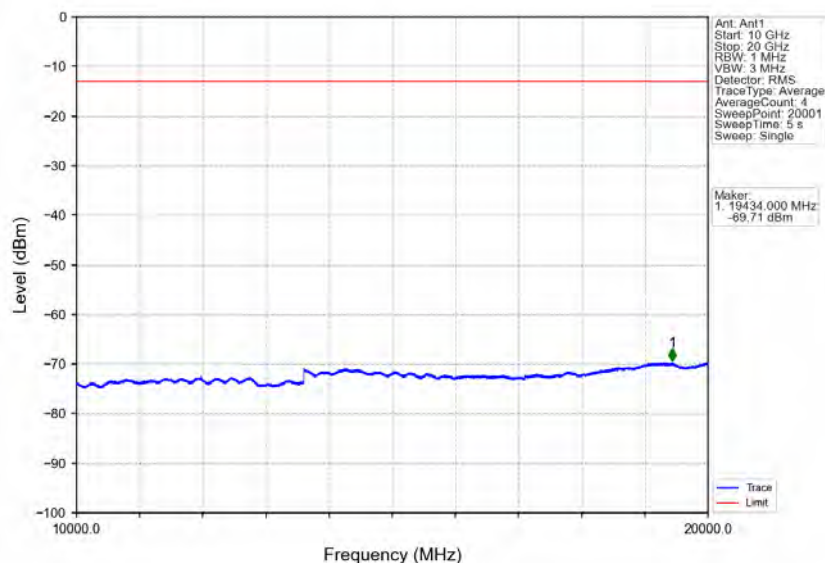
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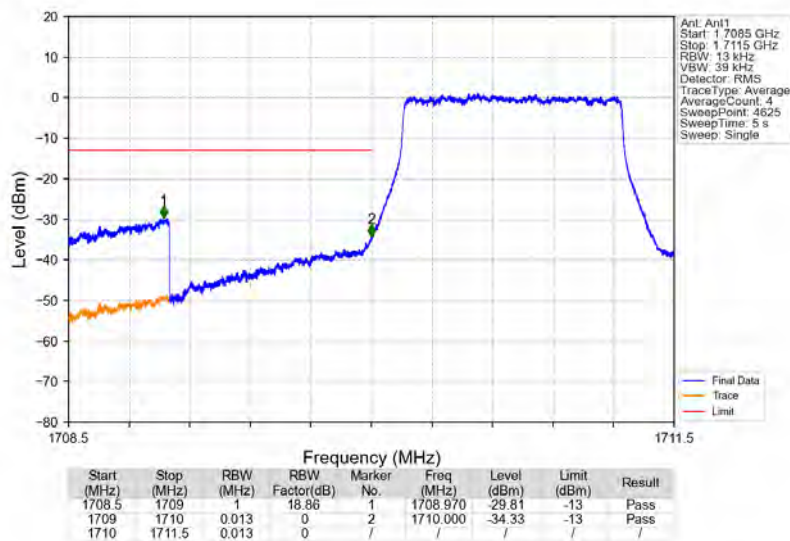
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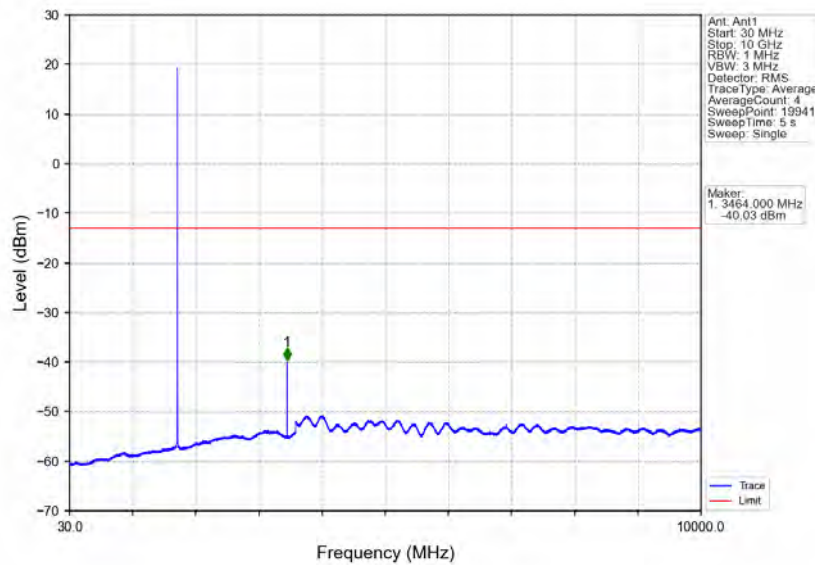
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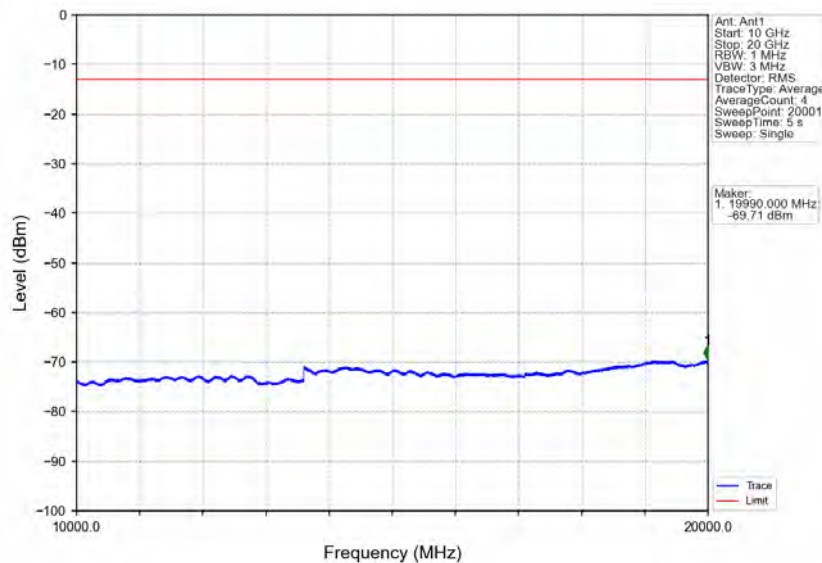
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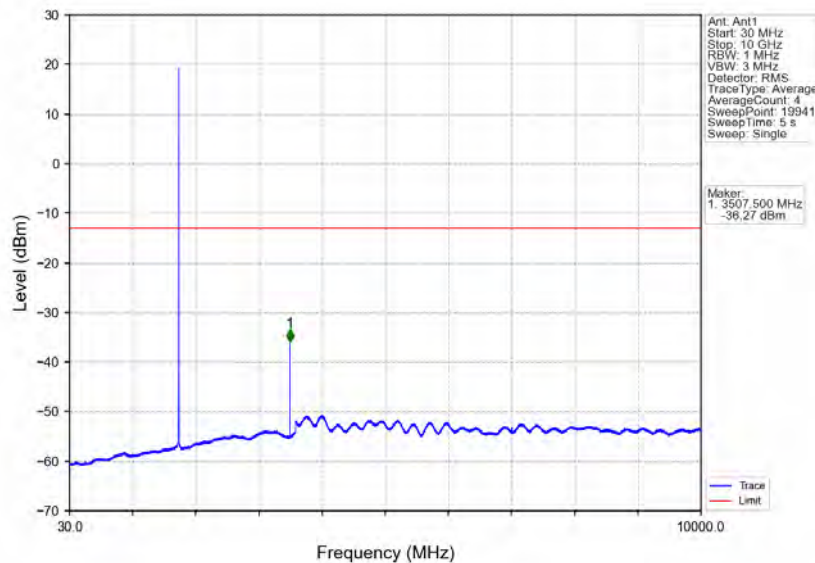
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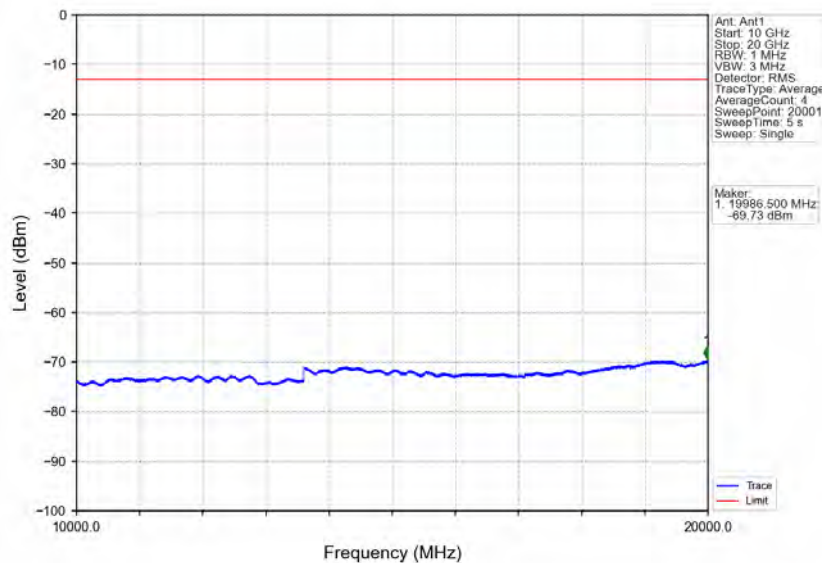
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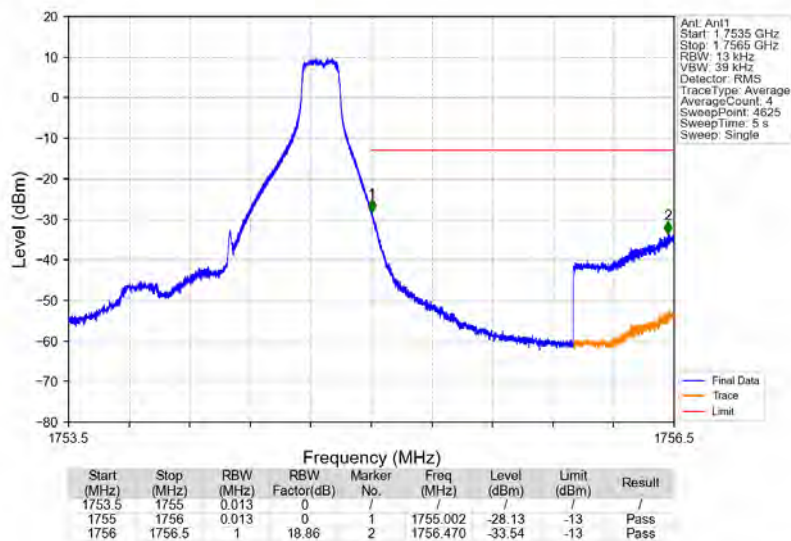
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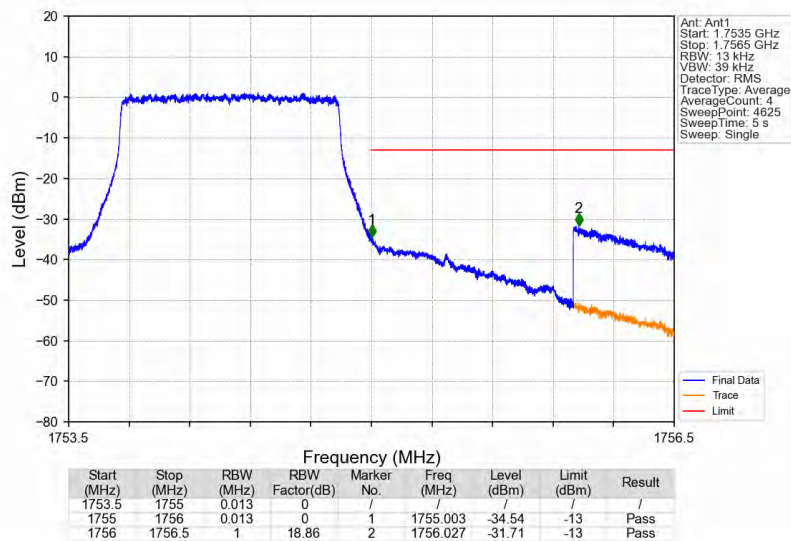
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6.2 B4_3MHz

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



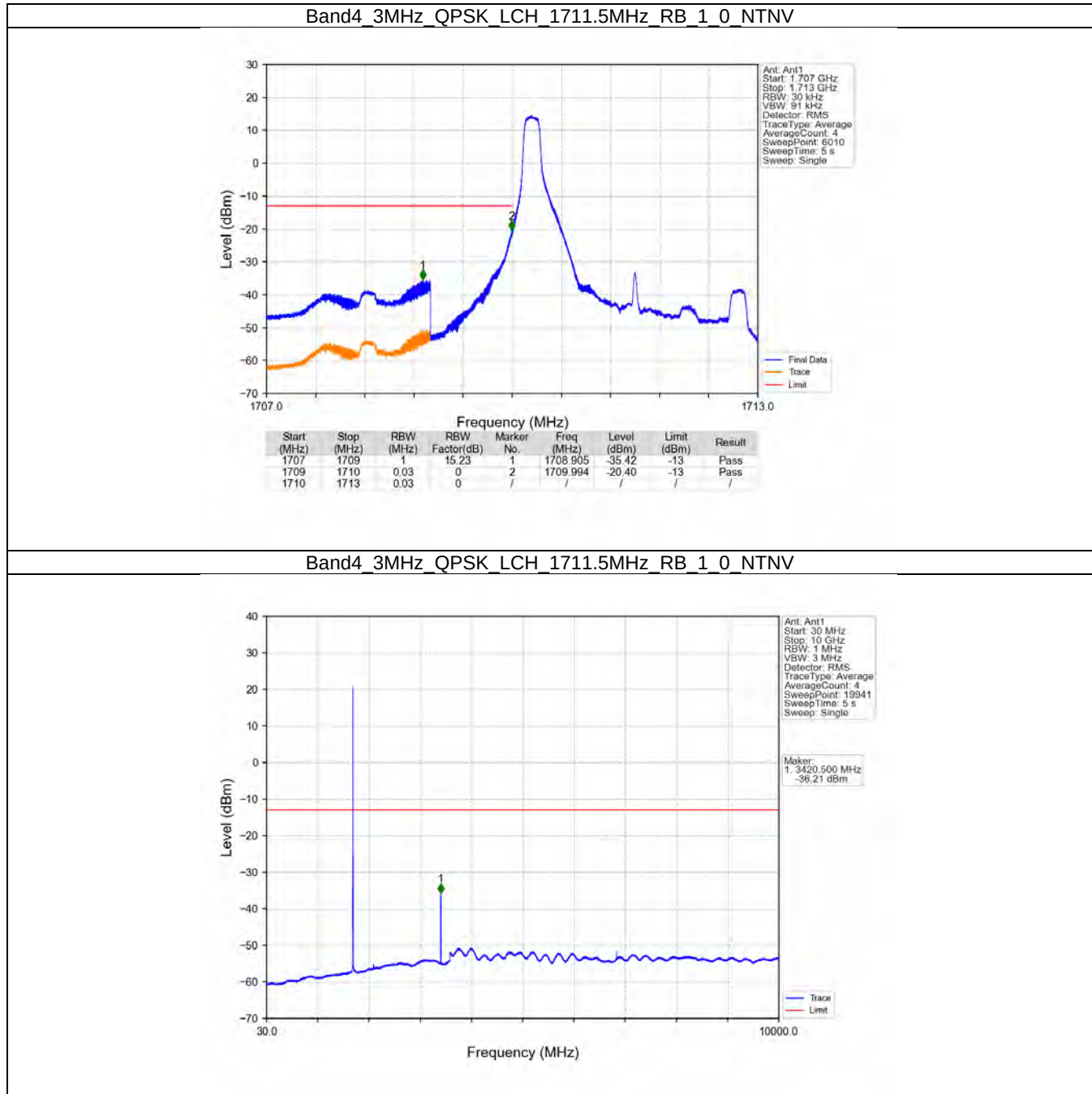
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6.2.2 Test Graph



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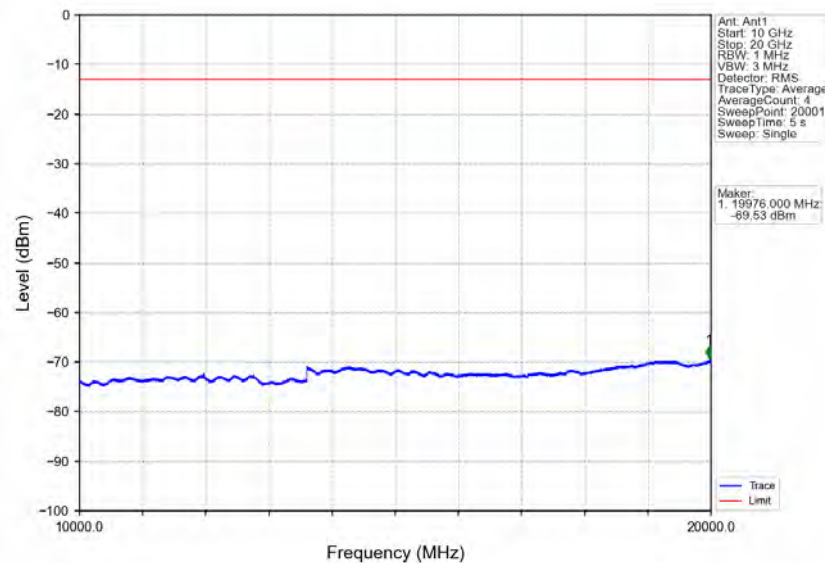
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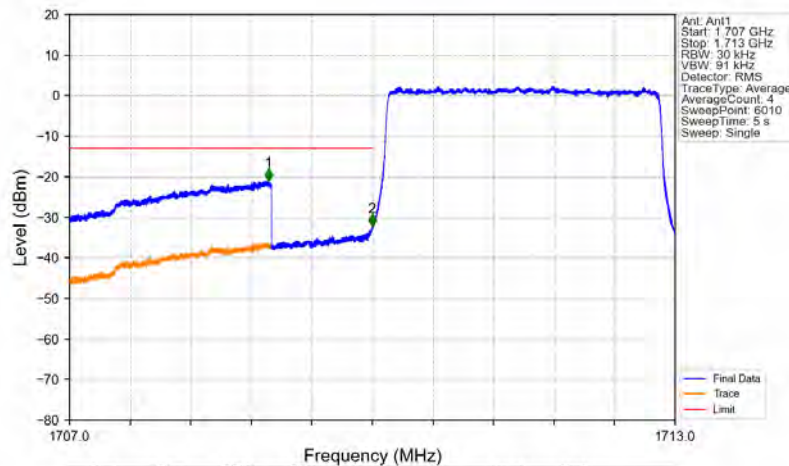
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	15.23	1	1708.970	-21.02	-13	Pass
1709	1710	0.03	0	2	1709.998	-32.28	-13	Pass
1710	1713	0.03	0	/	/	/	/	/

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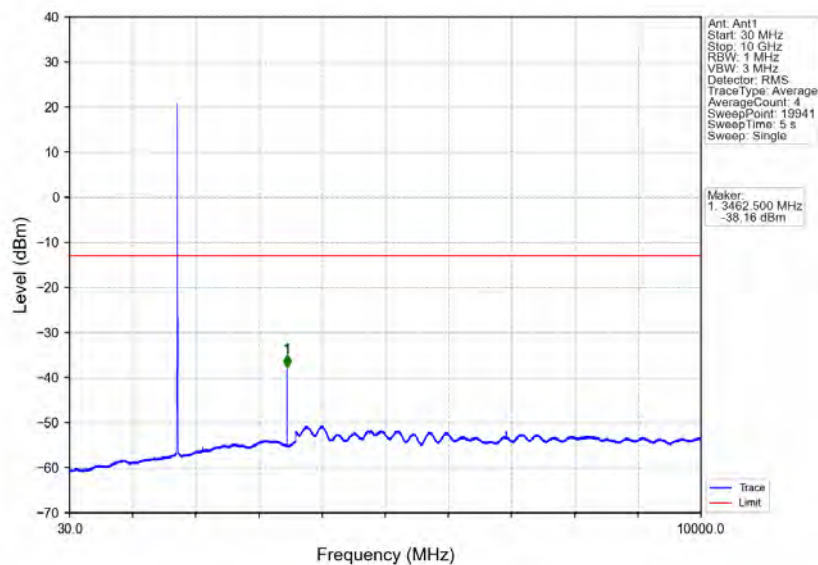
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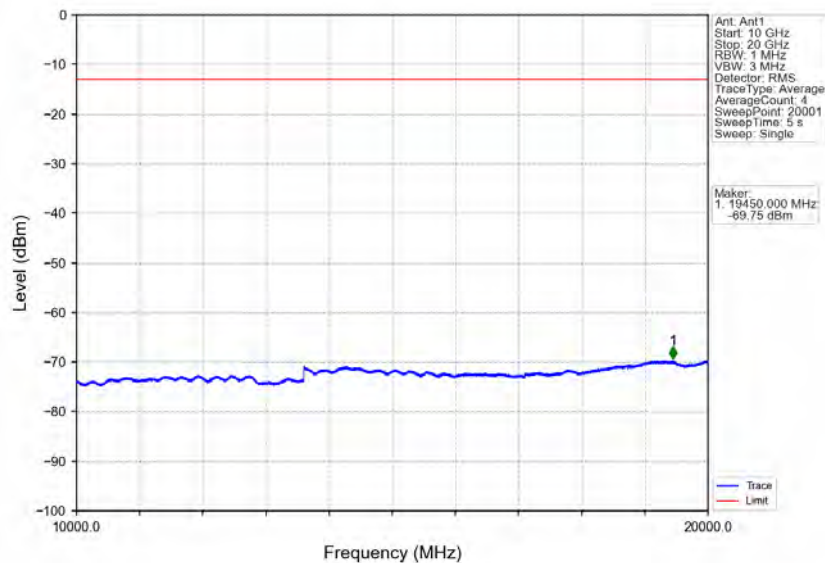


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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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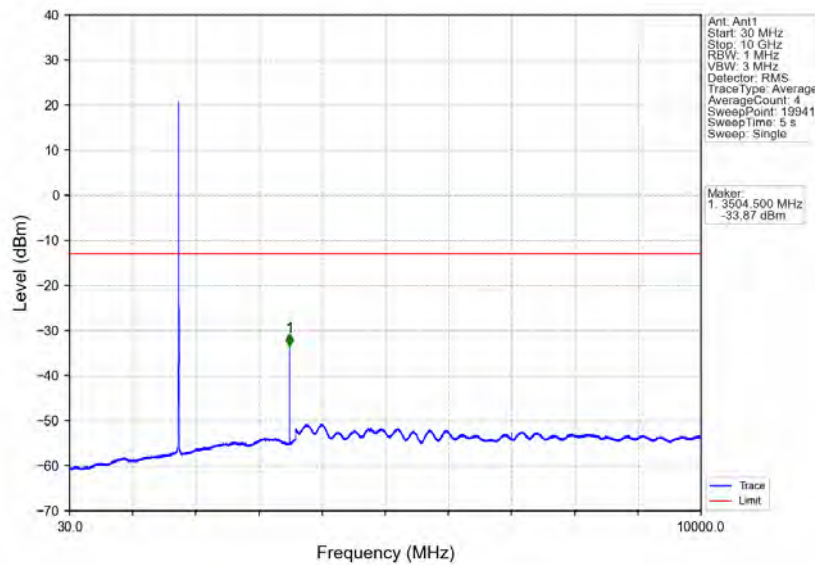
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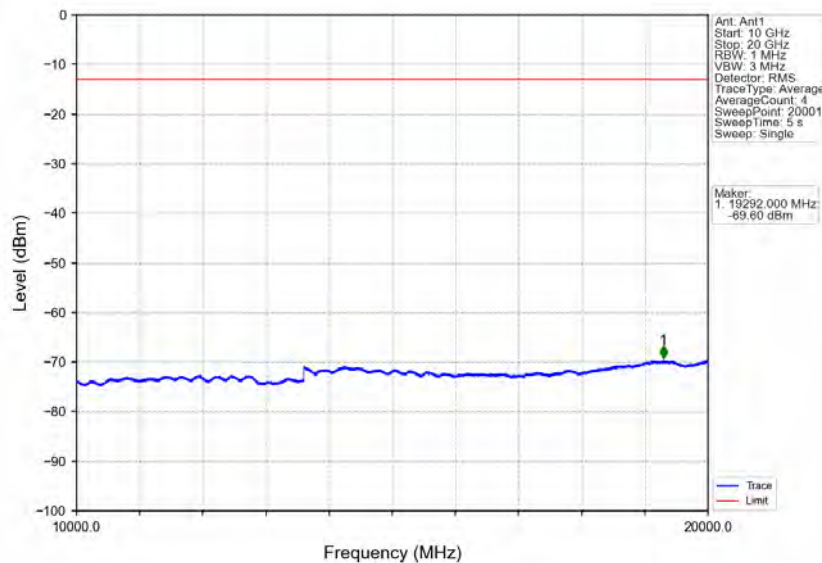
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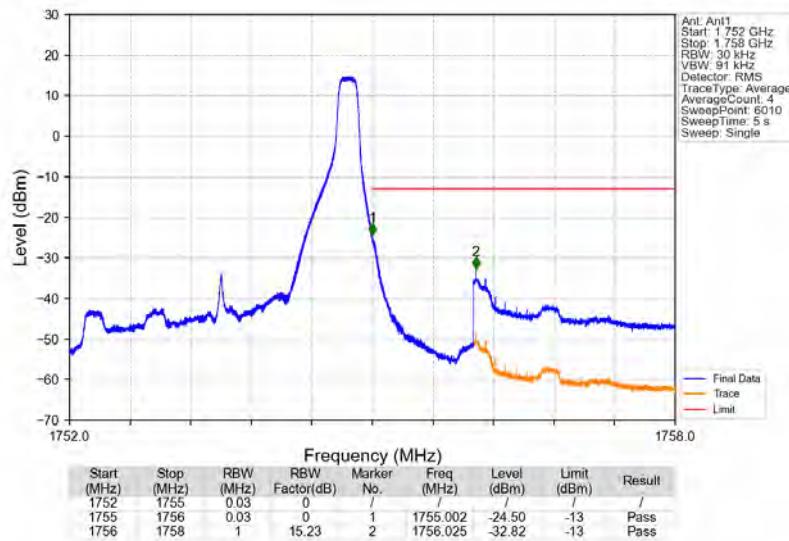
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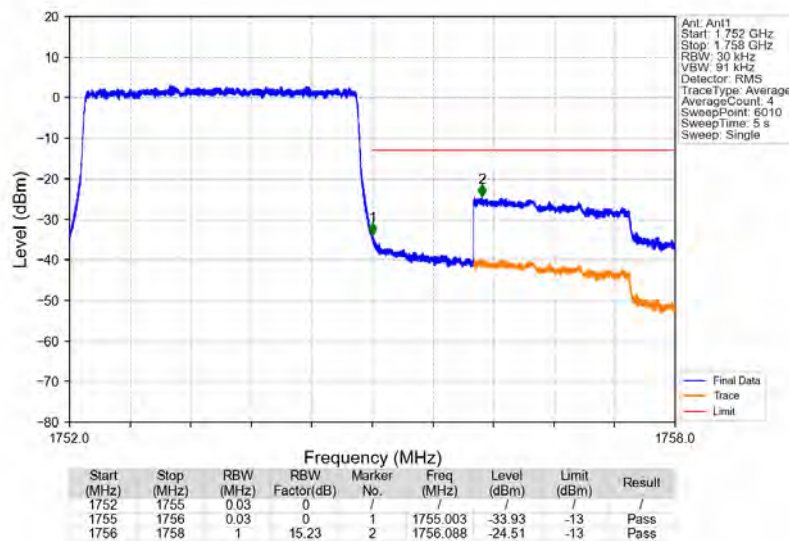
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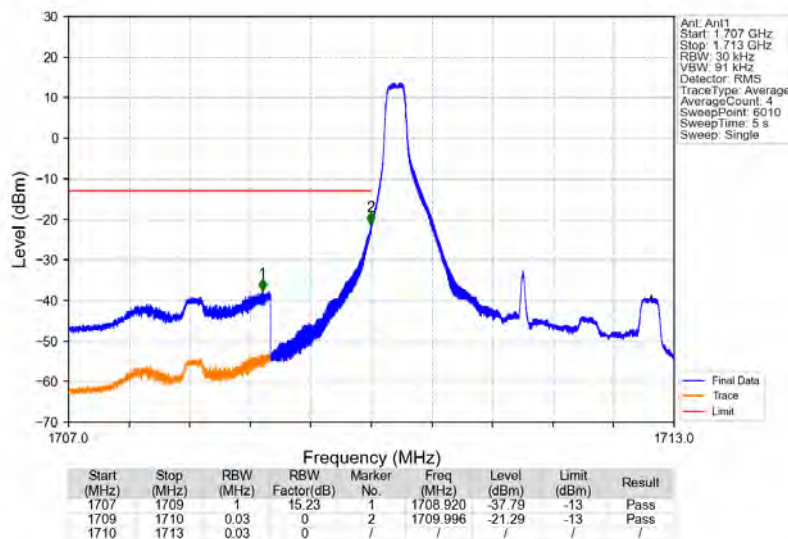
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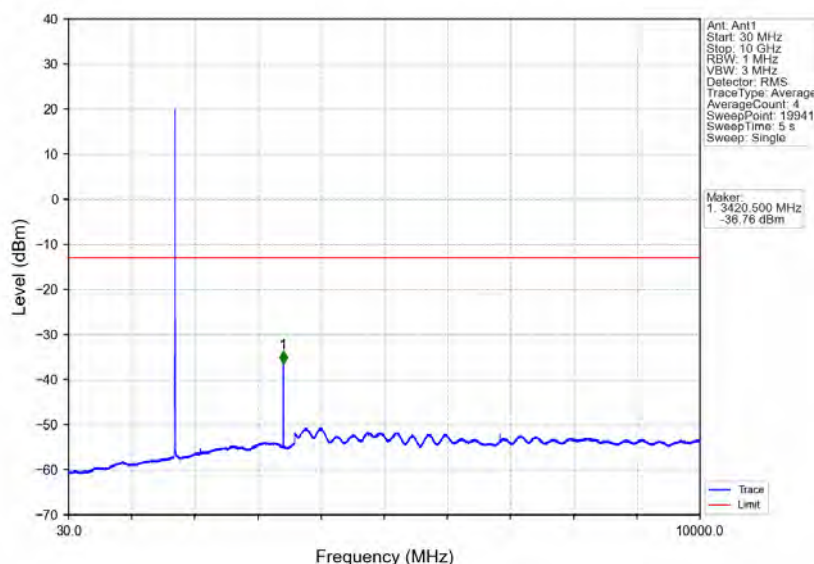
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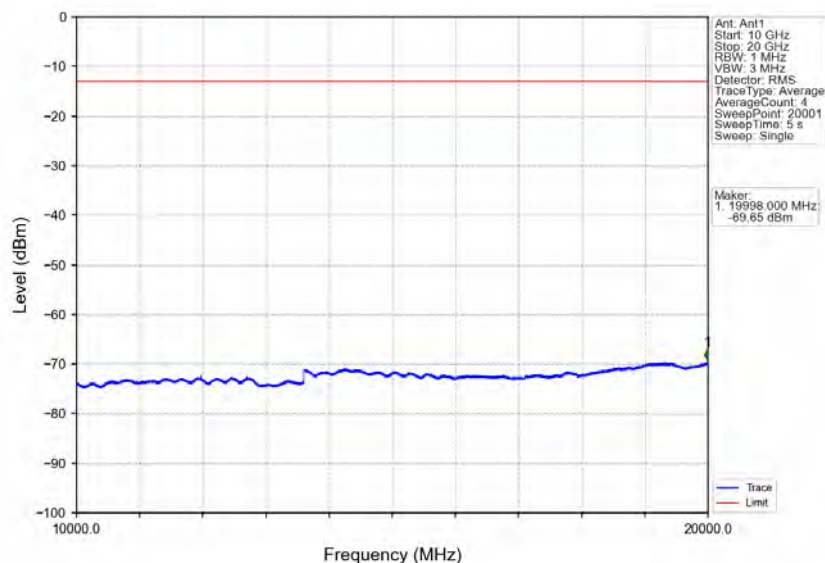
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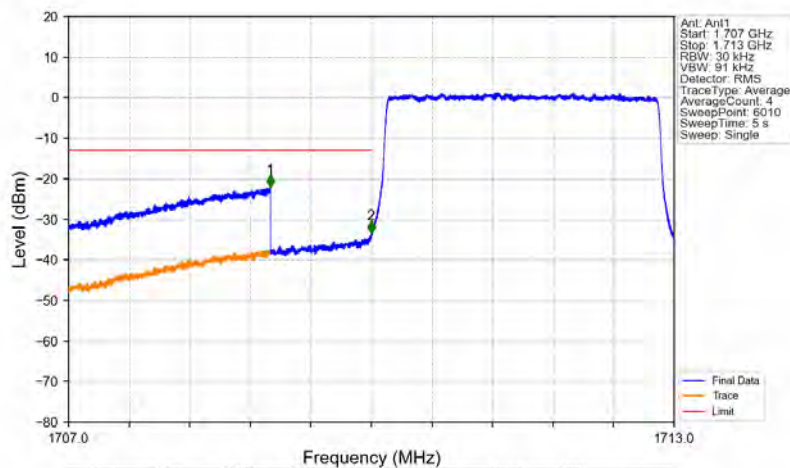
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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	15.23	1	1708.989	-22.11	-13	Pass
1709	1710	0.03	0	2	1709.997	-33.43	-13	Pass
1710	1713	0.03	0	/	/	/	/	/



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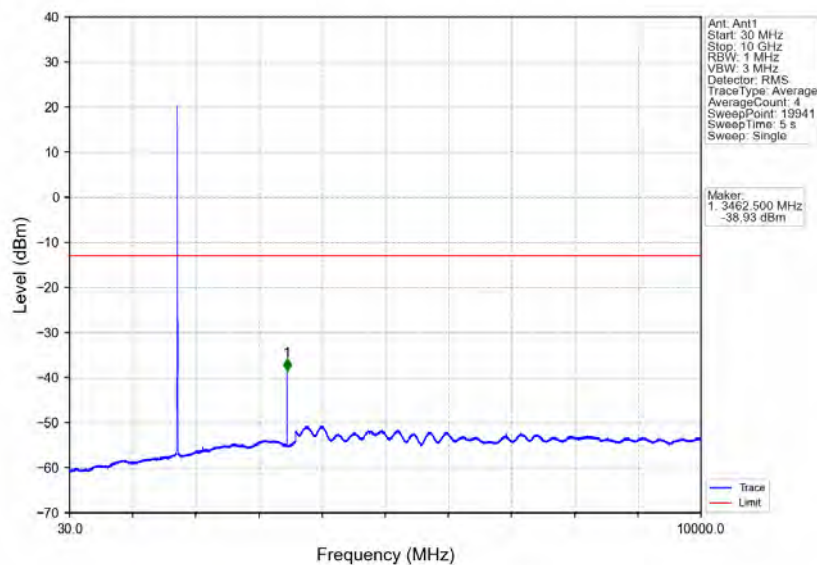
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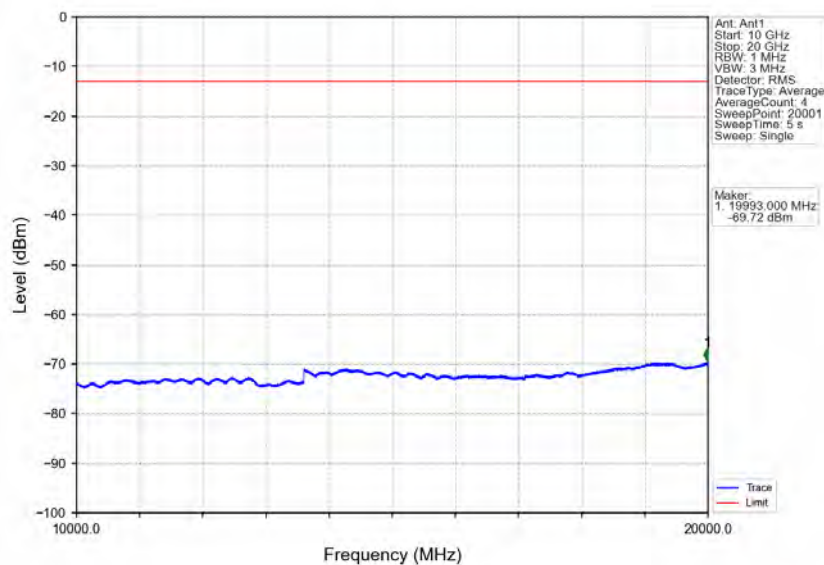
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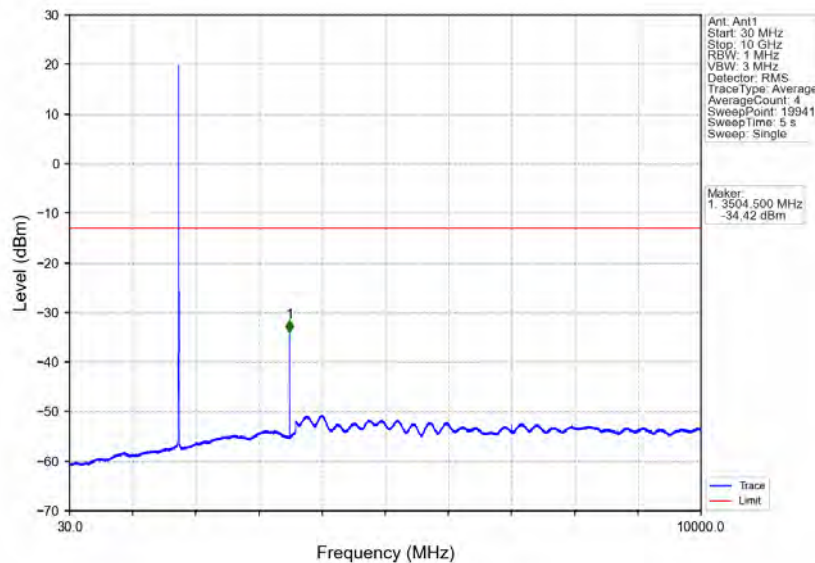
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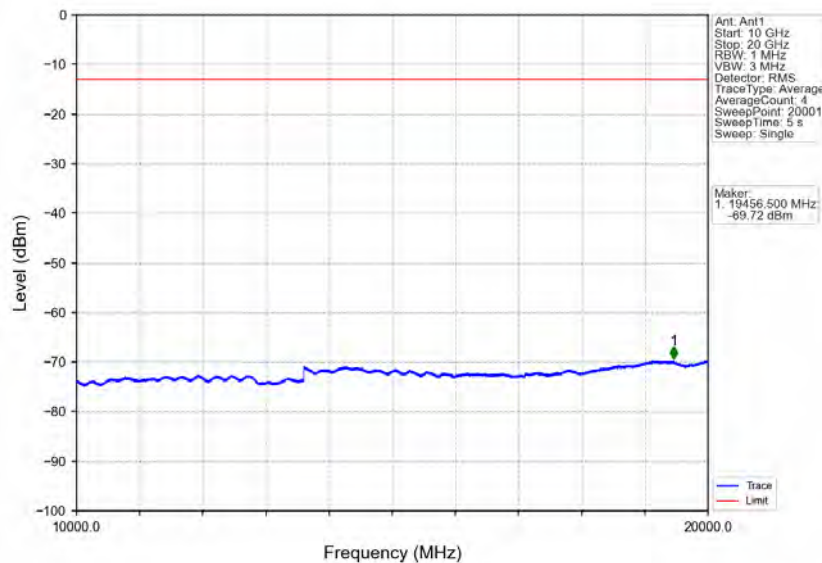
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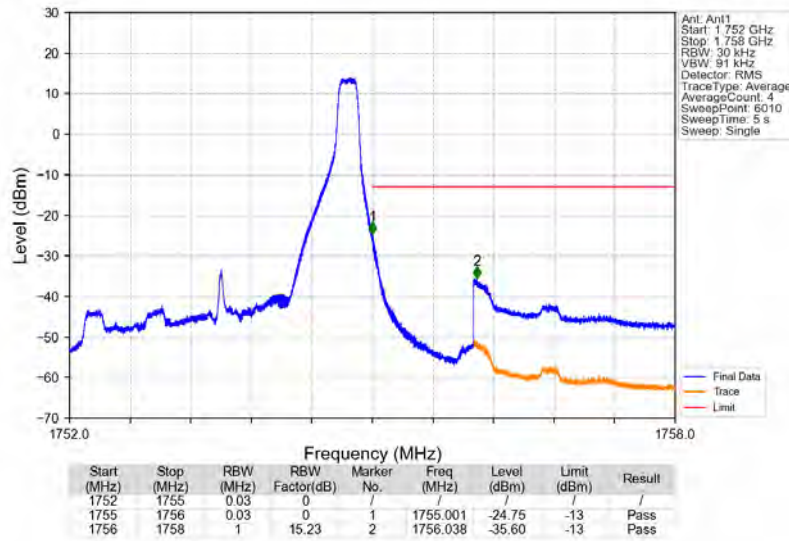
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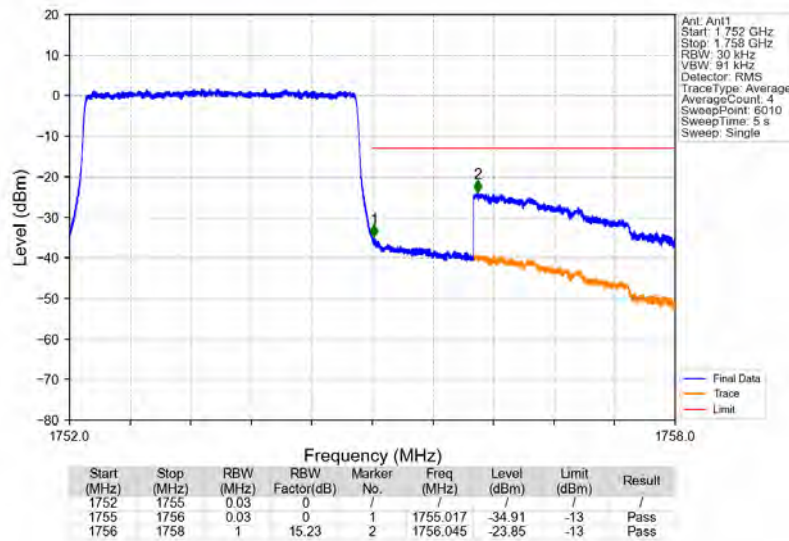
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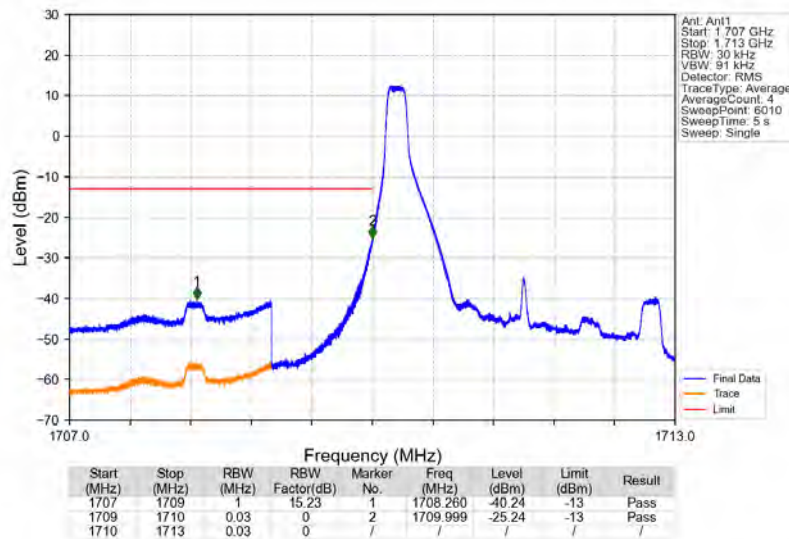
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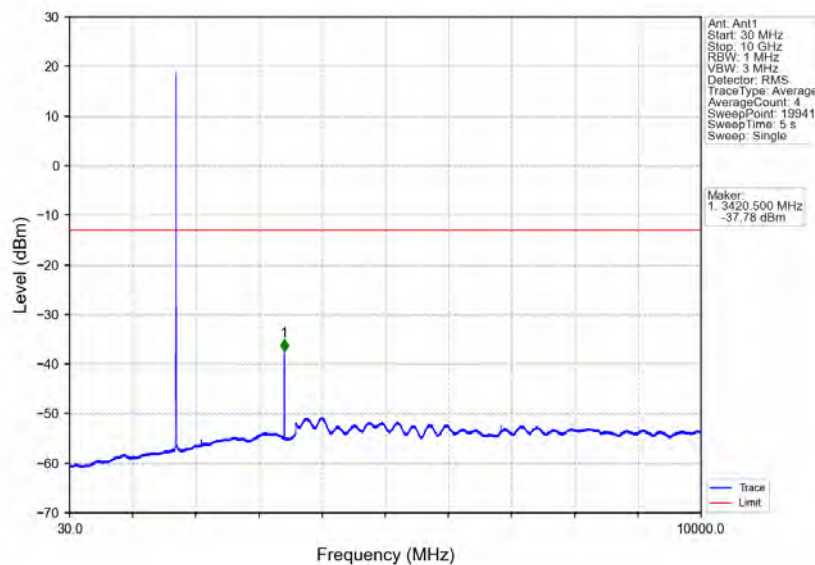
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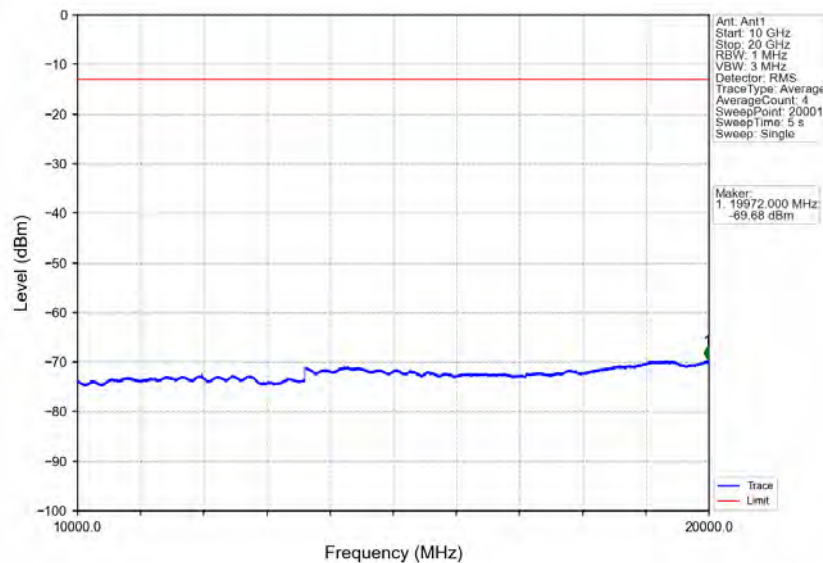
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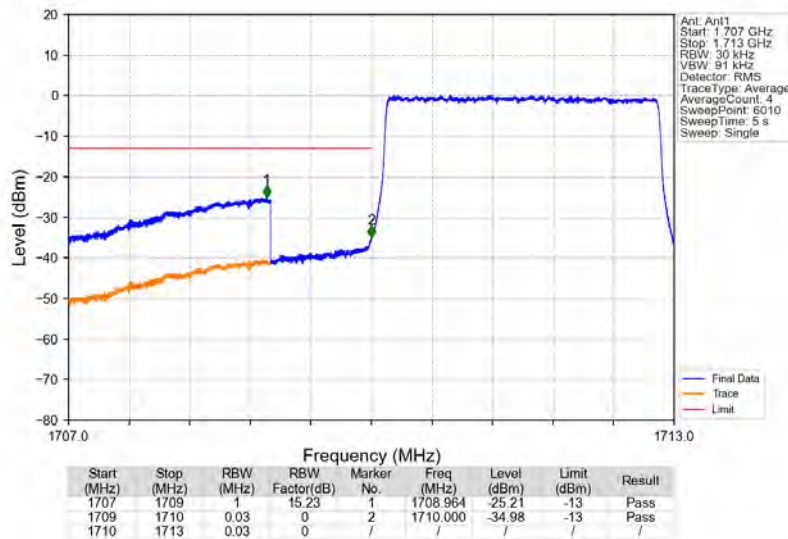
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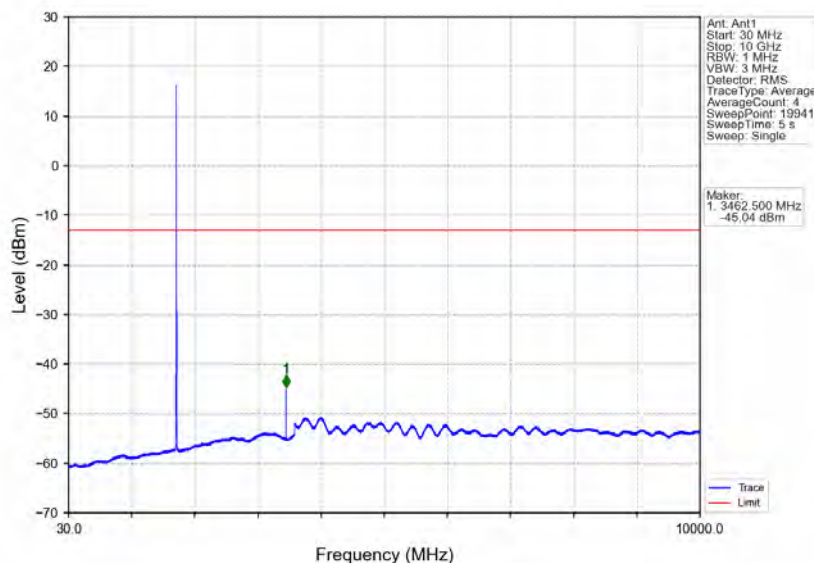
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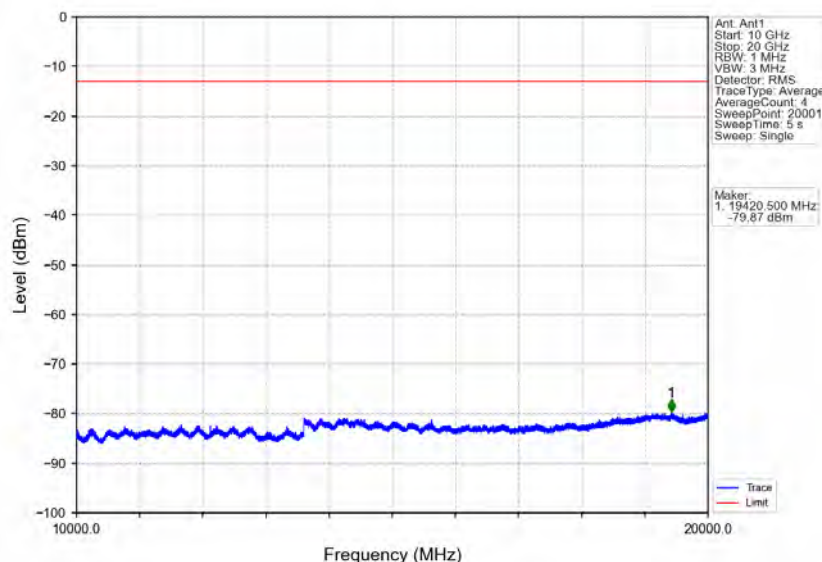
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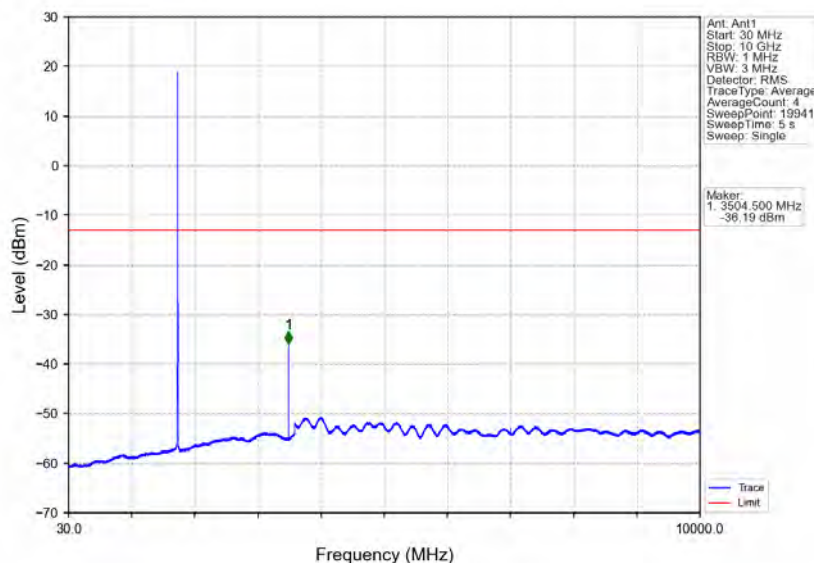
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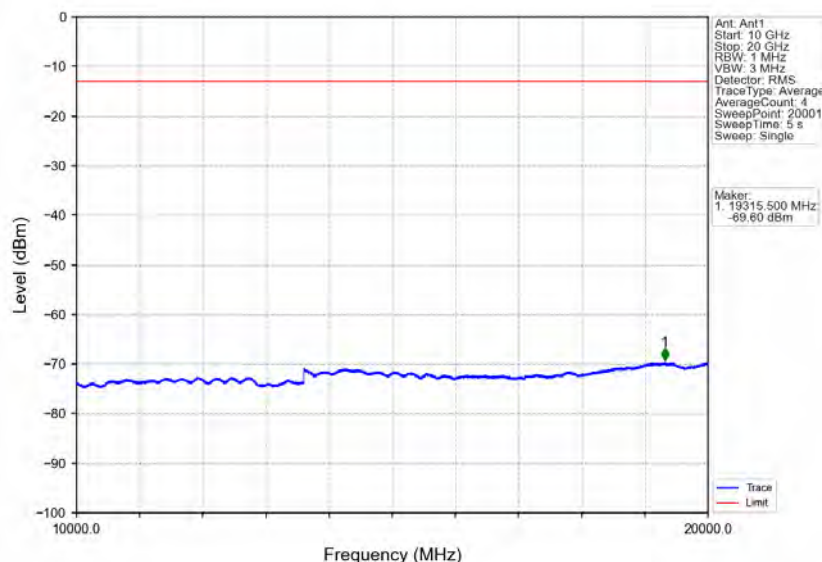
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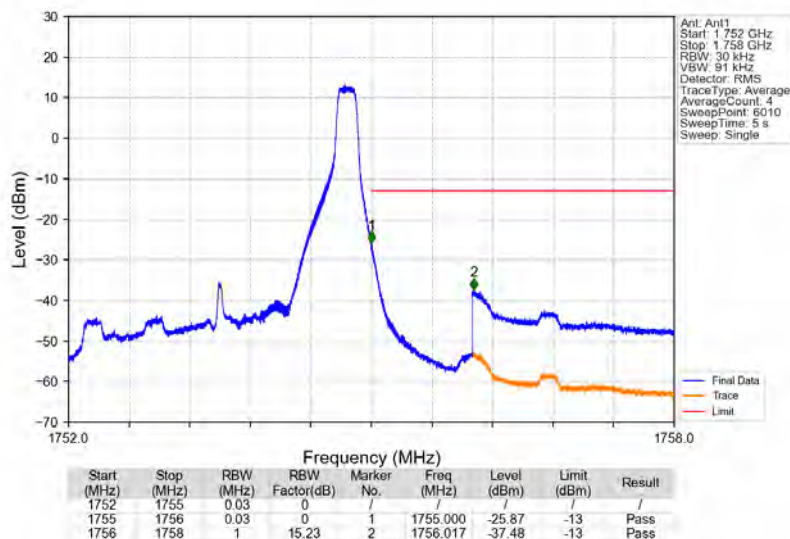
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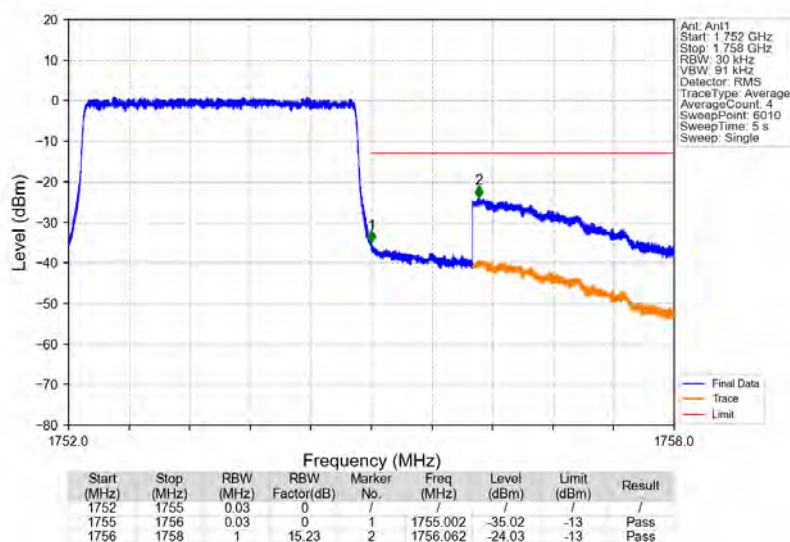
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Band4_3MHz_64QAM_HCH_1753.5MHz_RB_1_14_NTNV



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6.3 B4_5MHz

6.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	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
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
64QAM	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
		1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



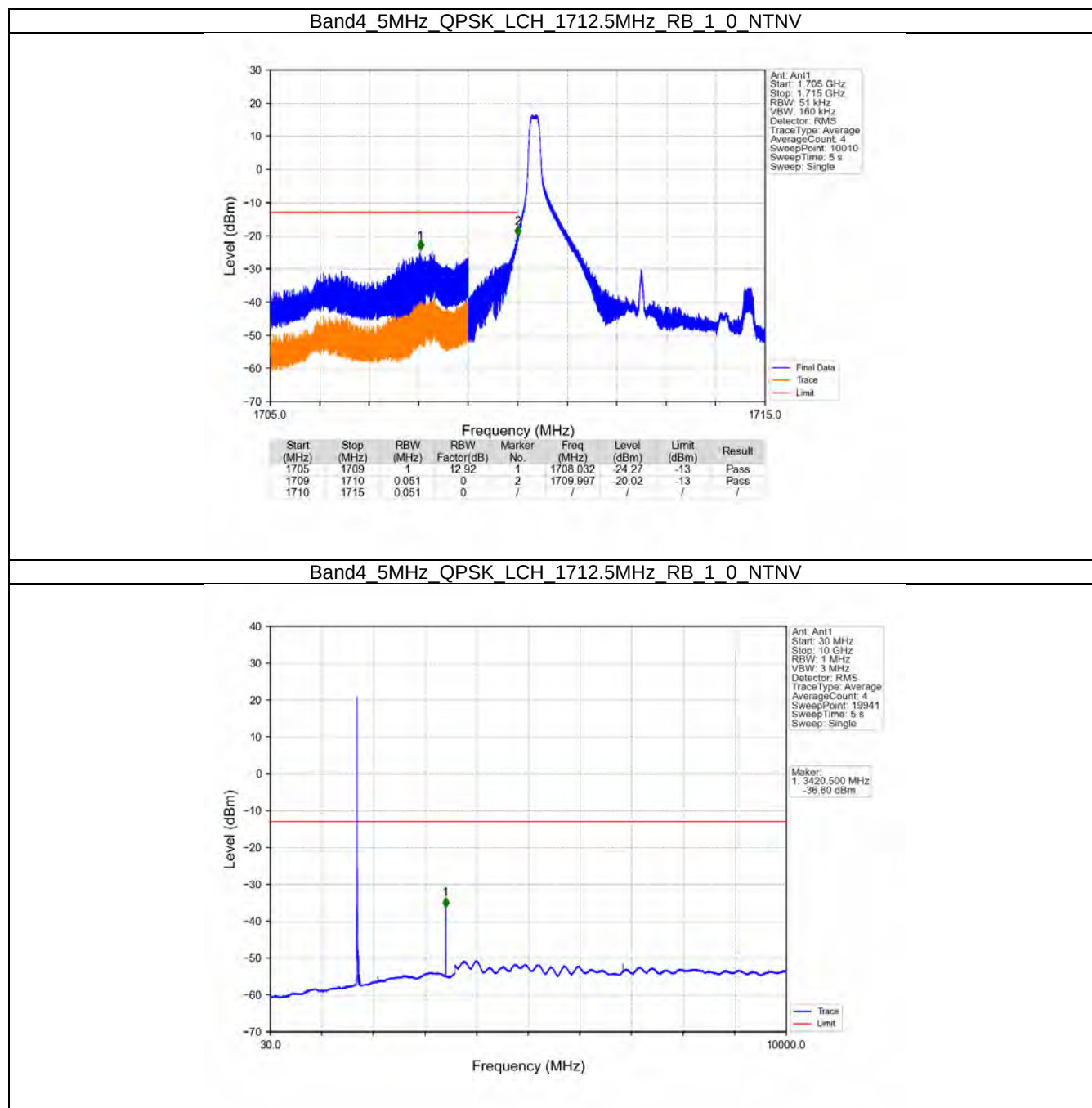
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6.3.2 Test Graph



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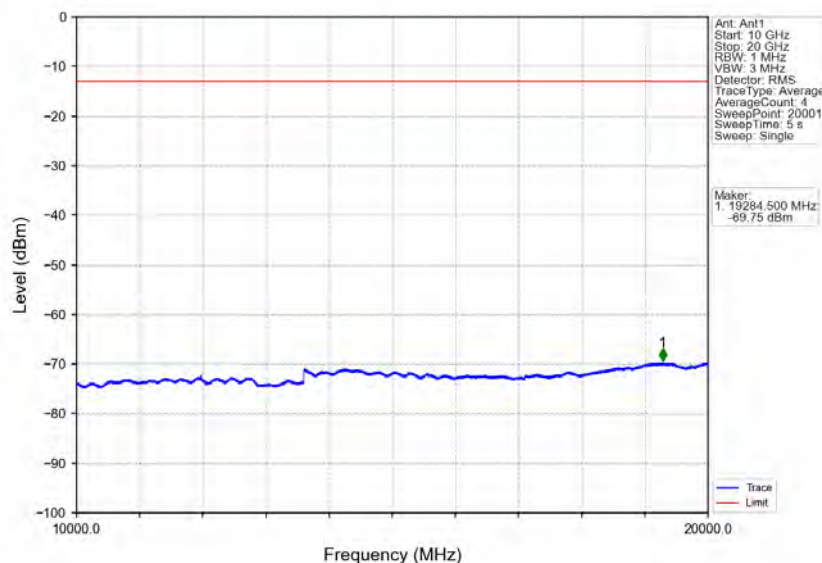
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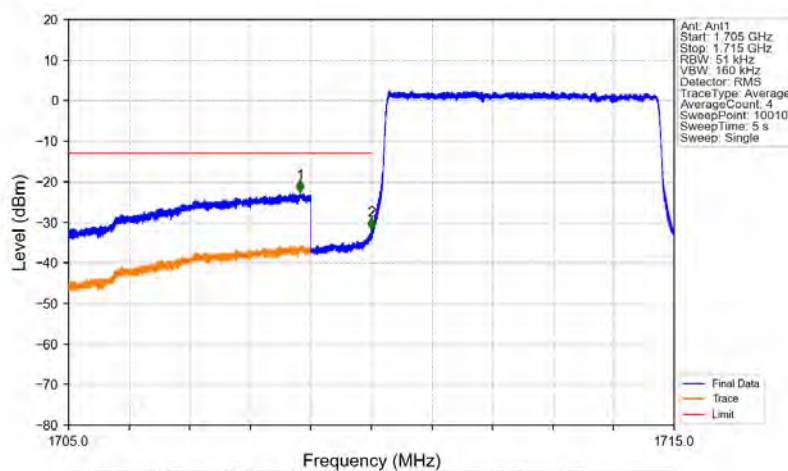
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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	12.92	1	1708.824	-22.68	-13	Pass
1709	1710	0.051	0	2	1709.999	-31.91	-13	Pass
1710	1715	0.051	0	/	/	/	/	/



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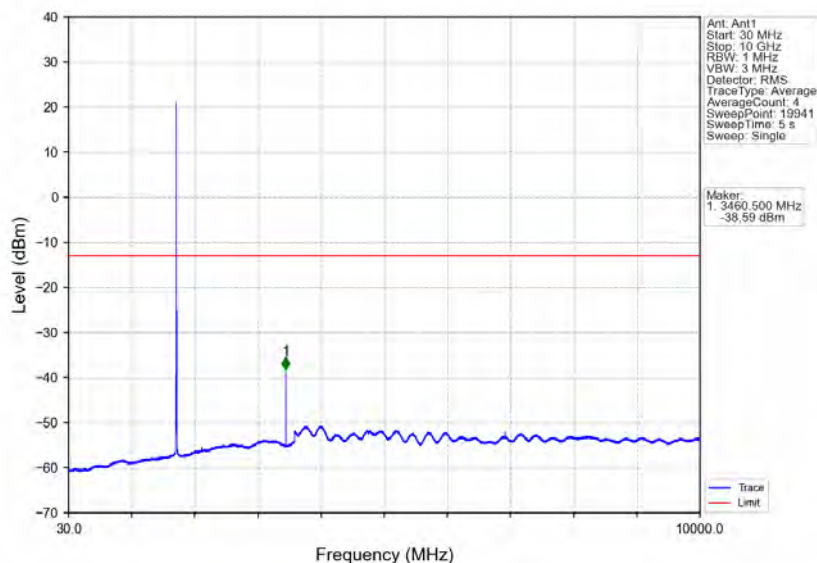
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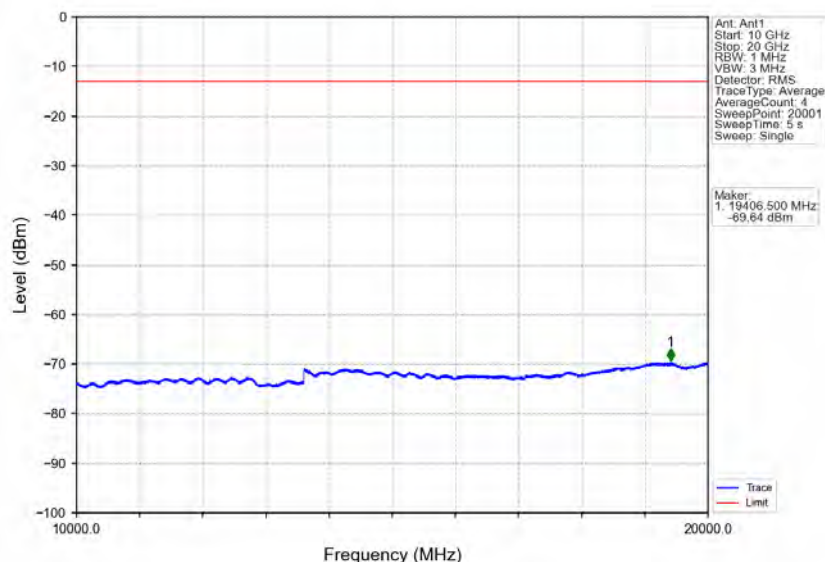
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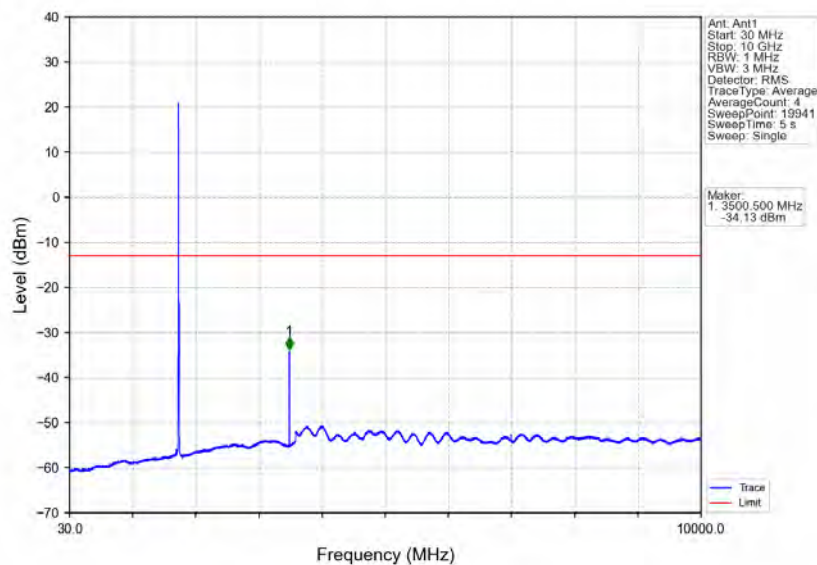
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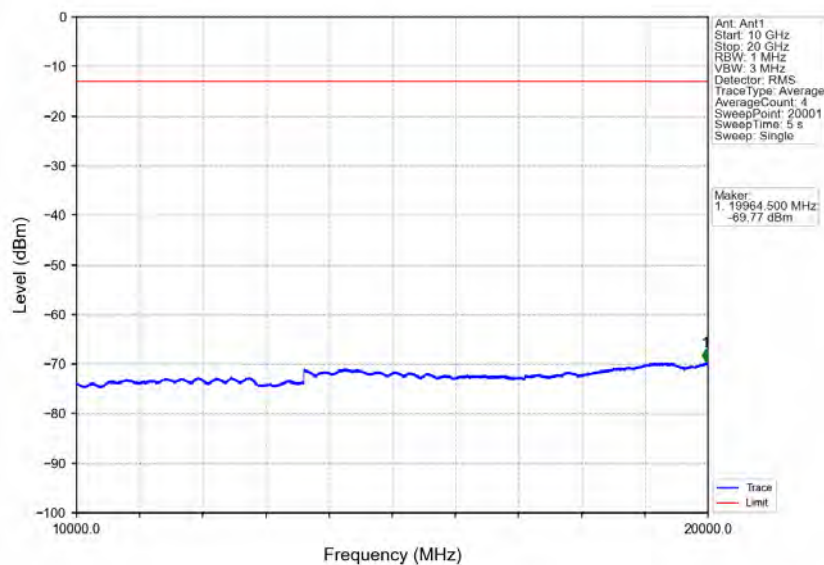
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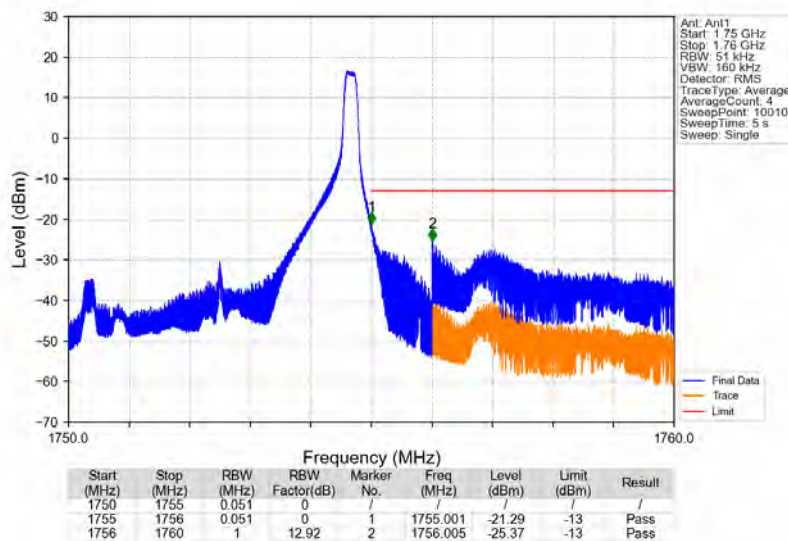
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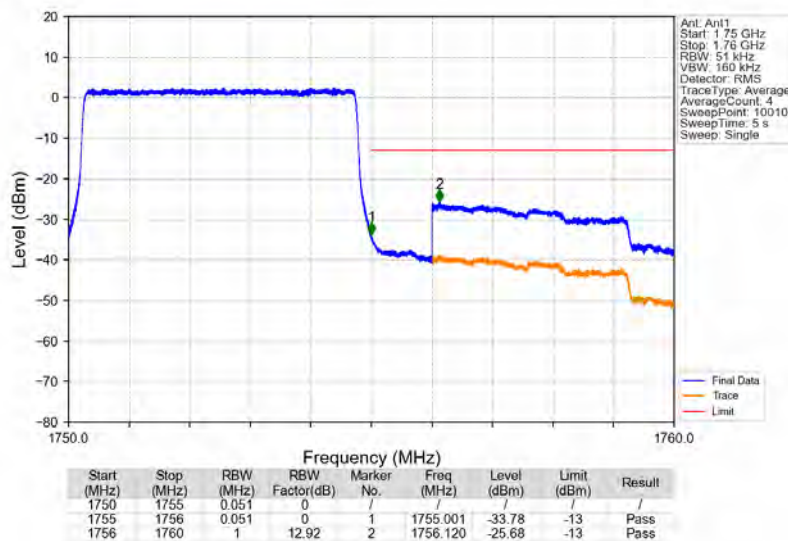
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



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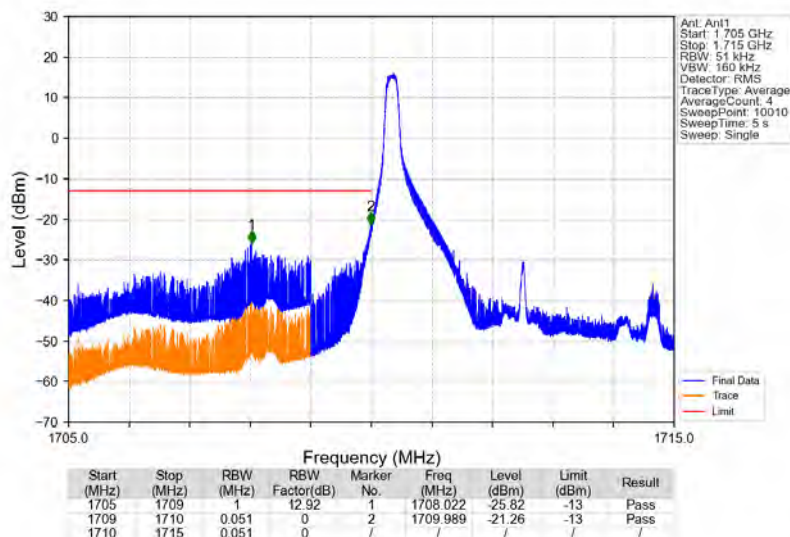
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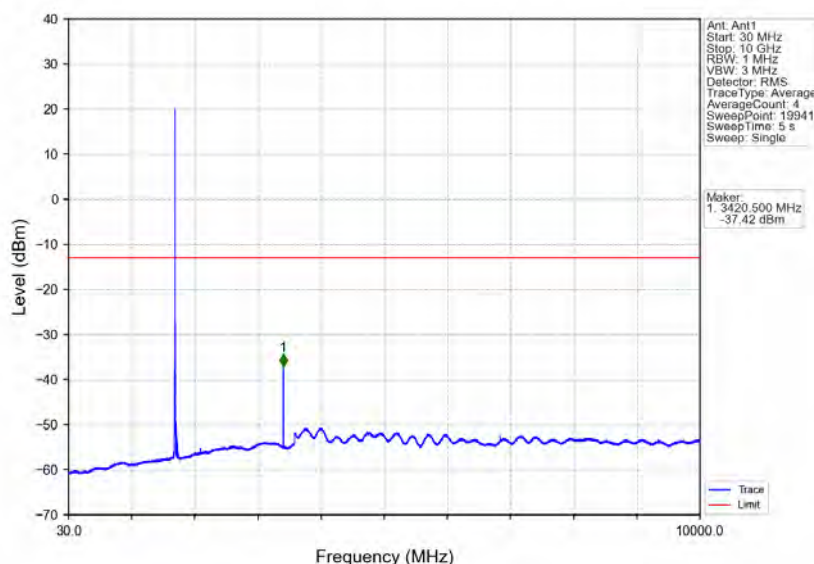
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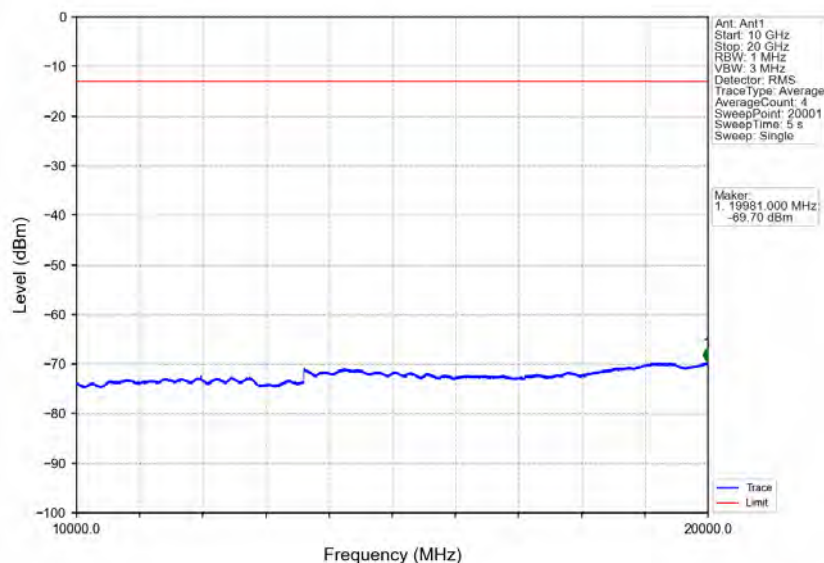
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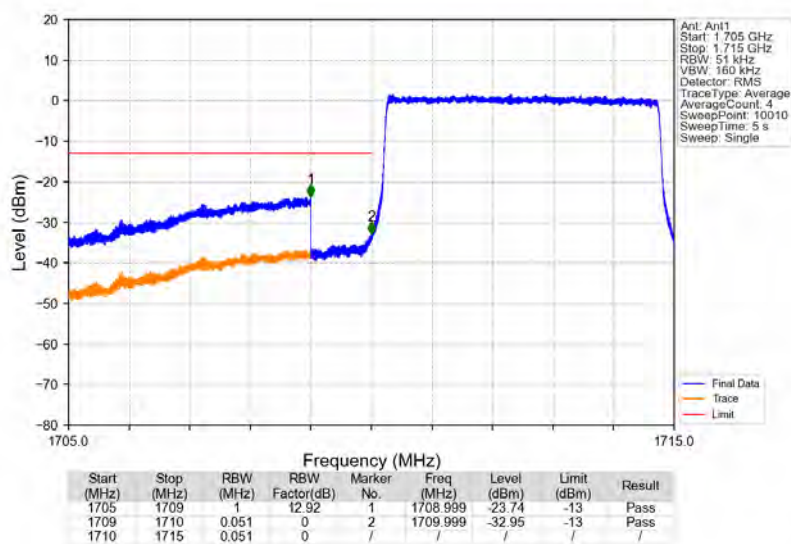
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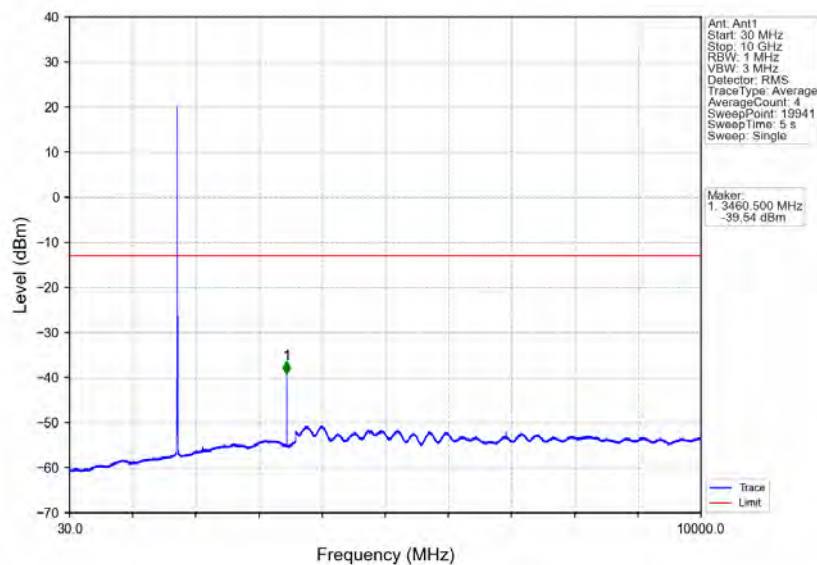
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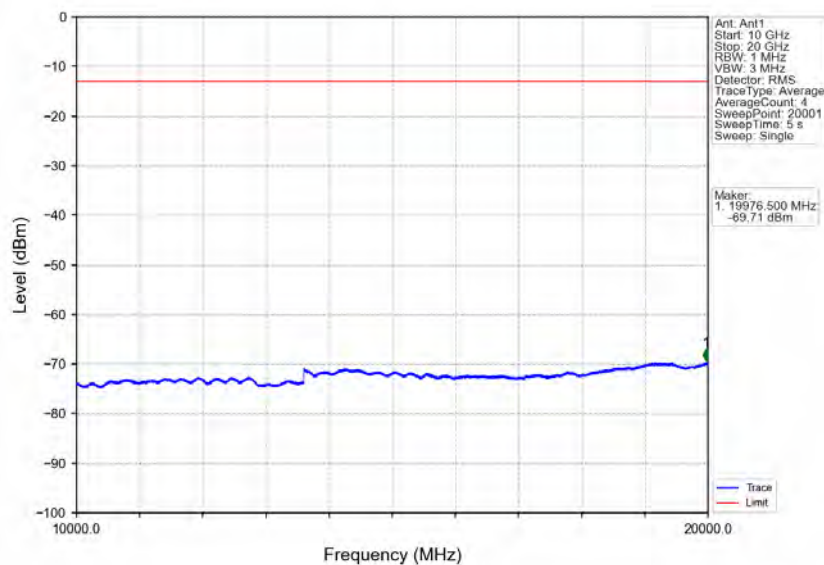
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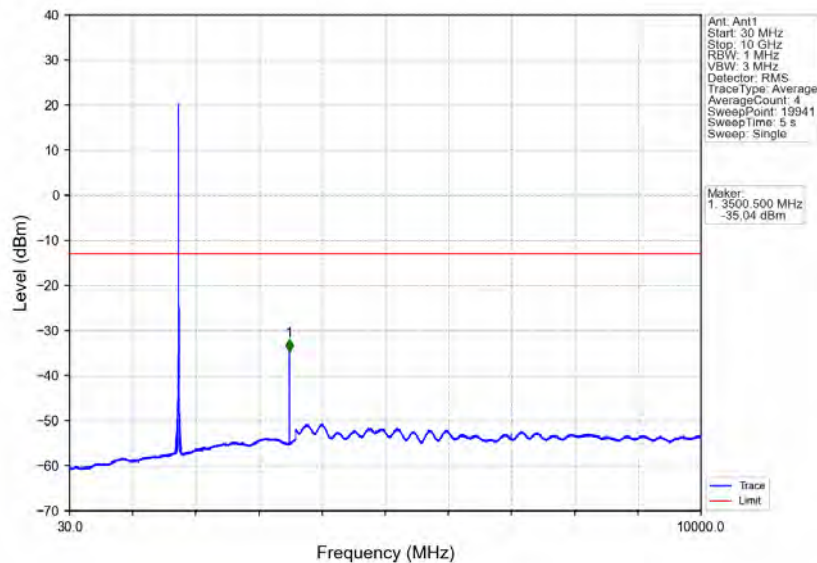
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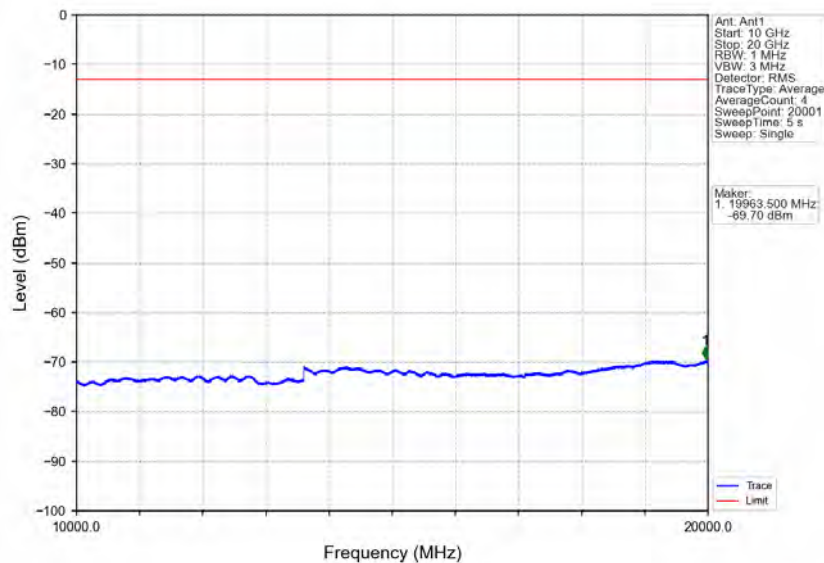
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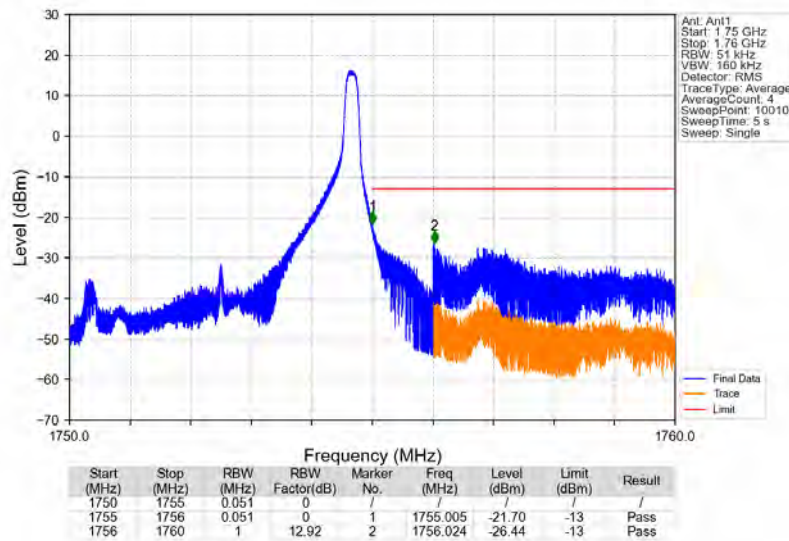
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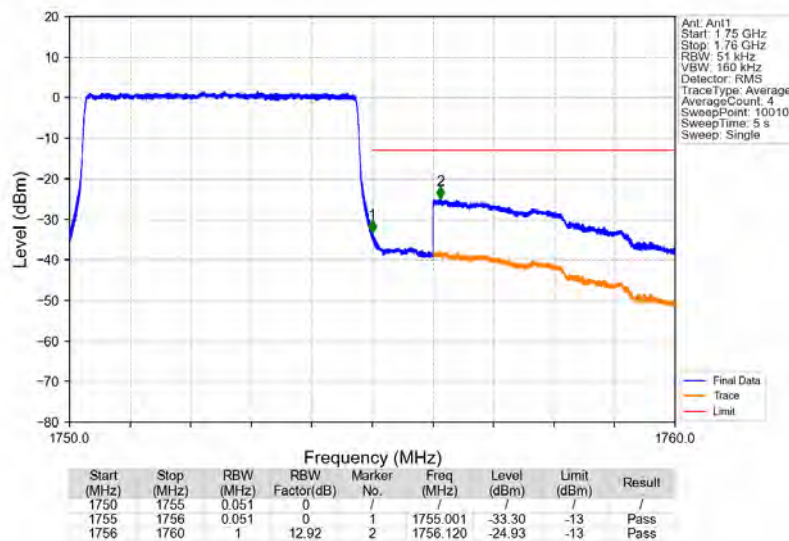
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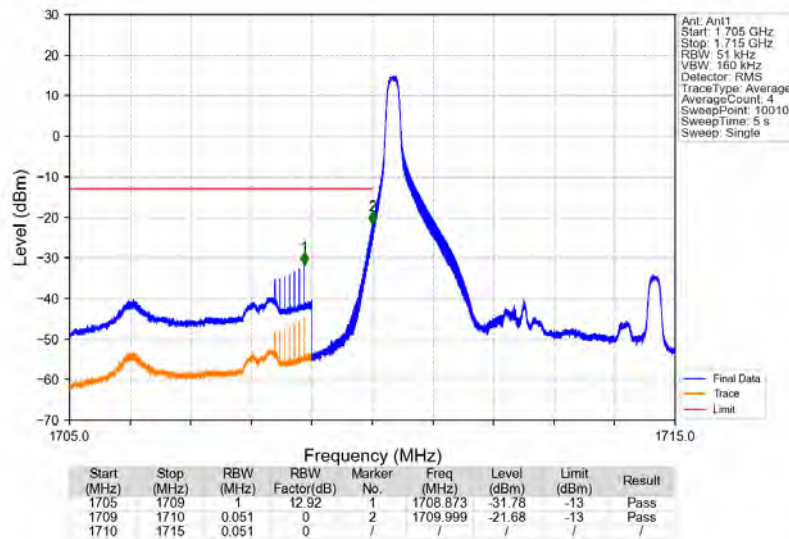
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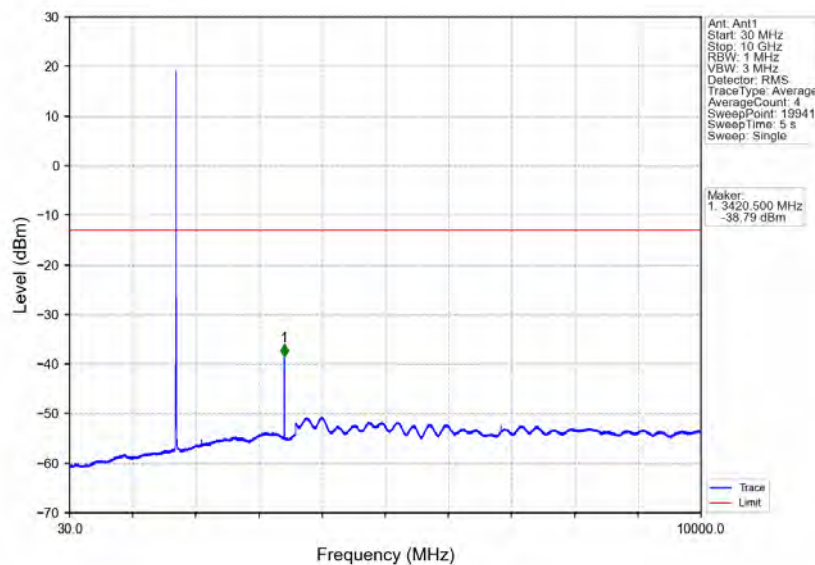
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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_1_0_NTNV



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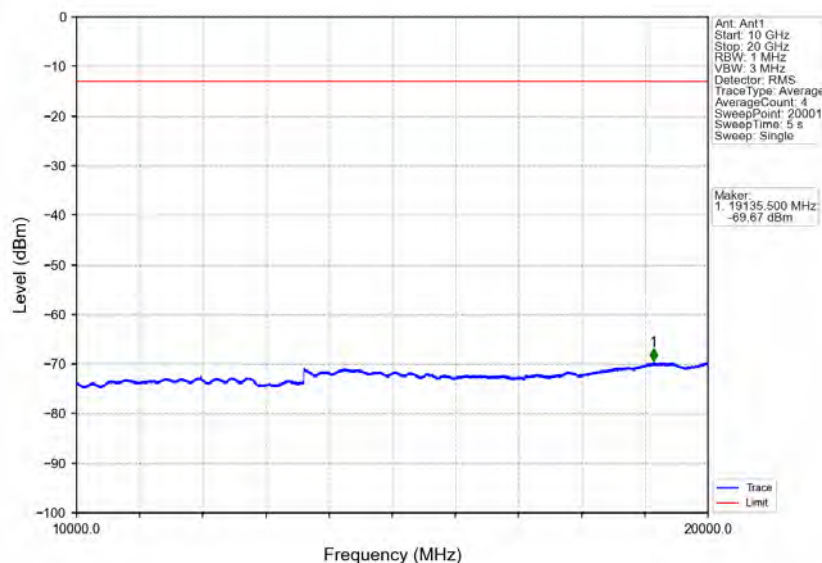
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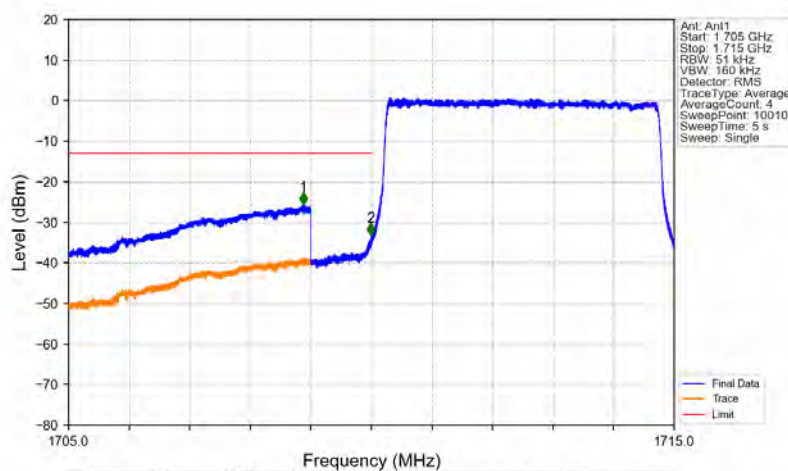
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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_1_0_NTNV



Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	12.92	1	1708.873	-25.67	-13	Pass
1709	1710	0.051	0	2	1709.994	-33.34	-13	Pass
1710	1715	0.051	0	/	/	/	/	/



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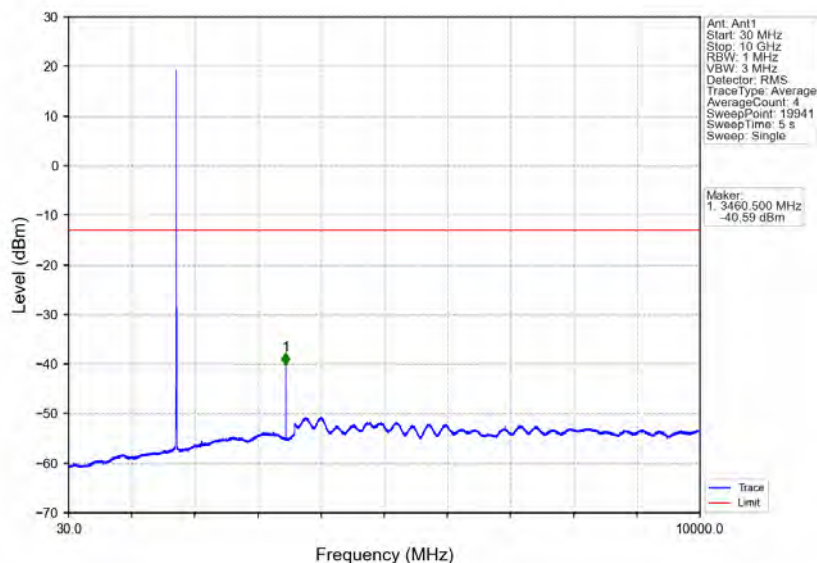
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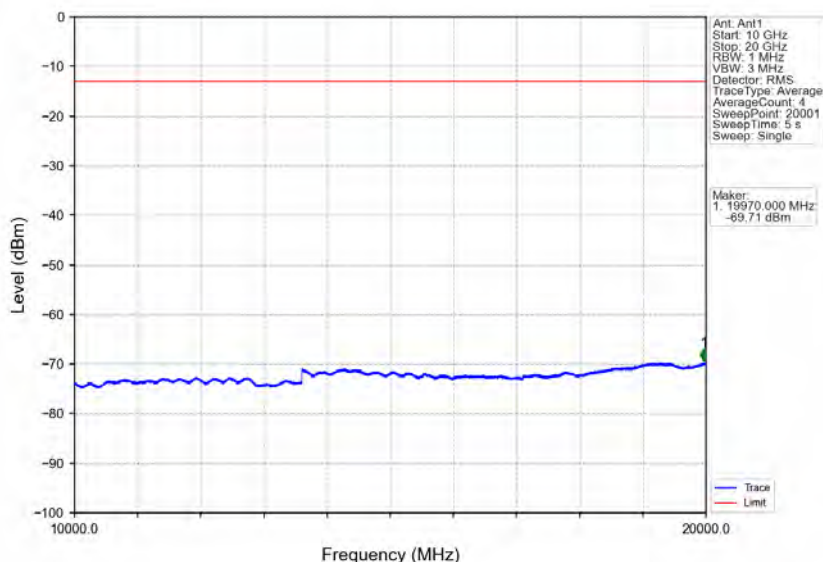
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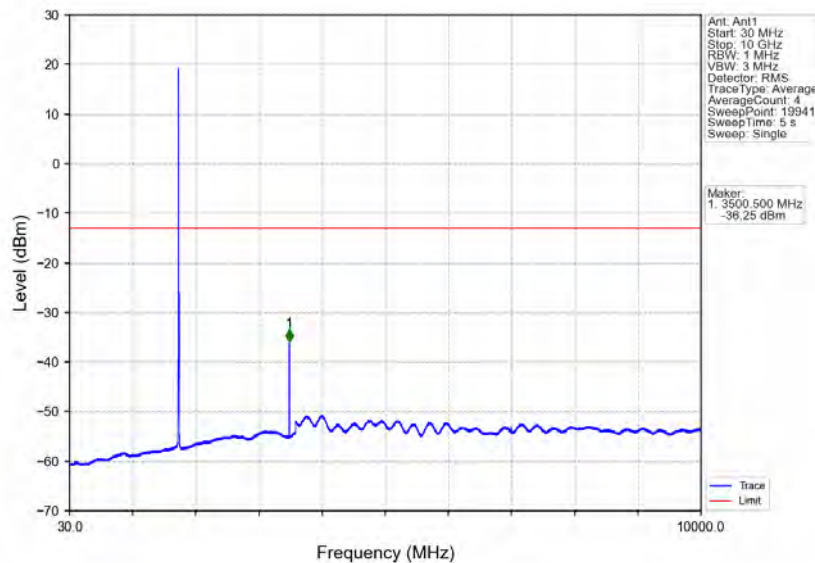
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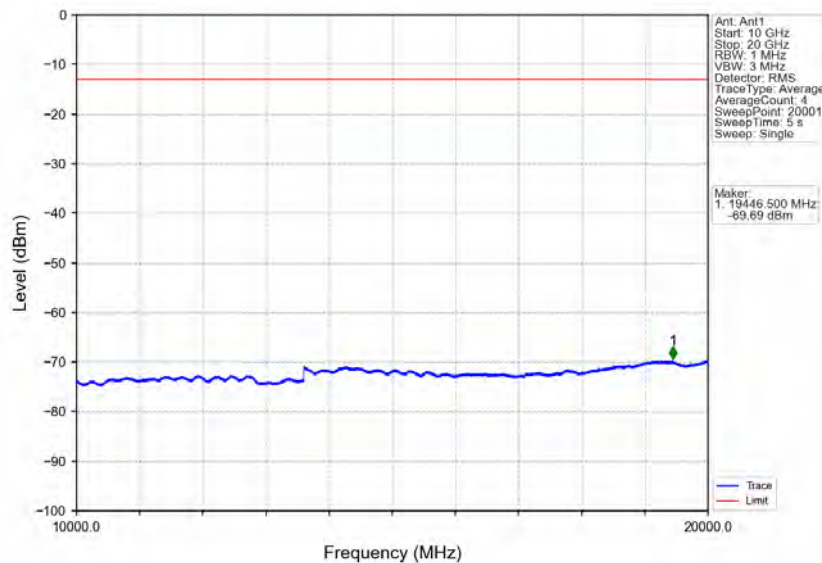
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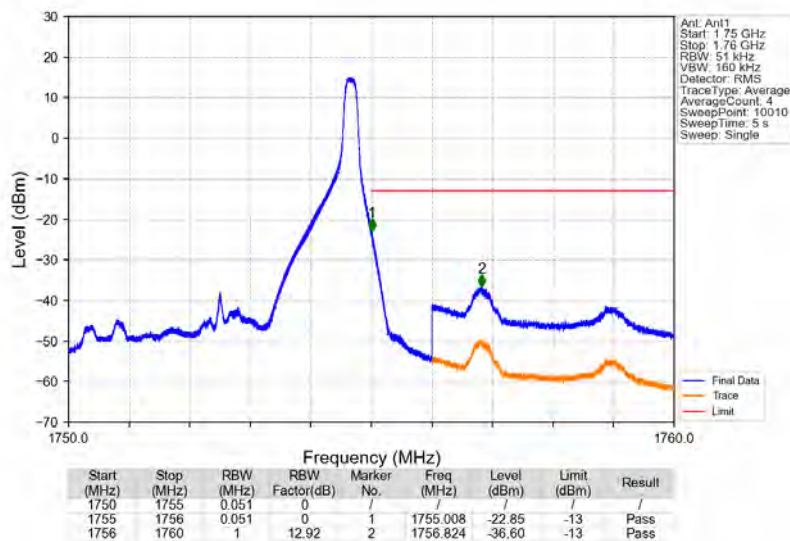
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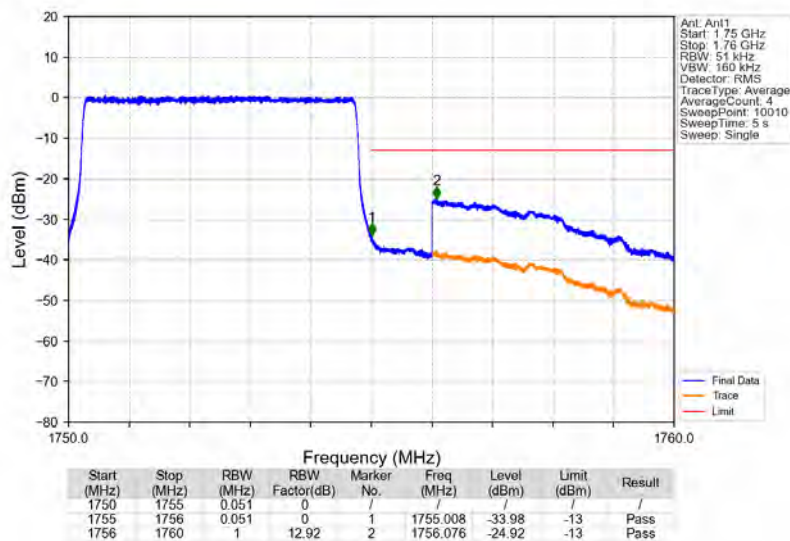
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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



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6.4 B4_10MHz

6.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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	1	49	Refer To Test Graph	Pass
		50	0	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	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
64QAM	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	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



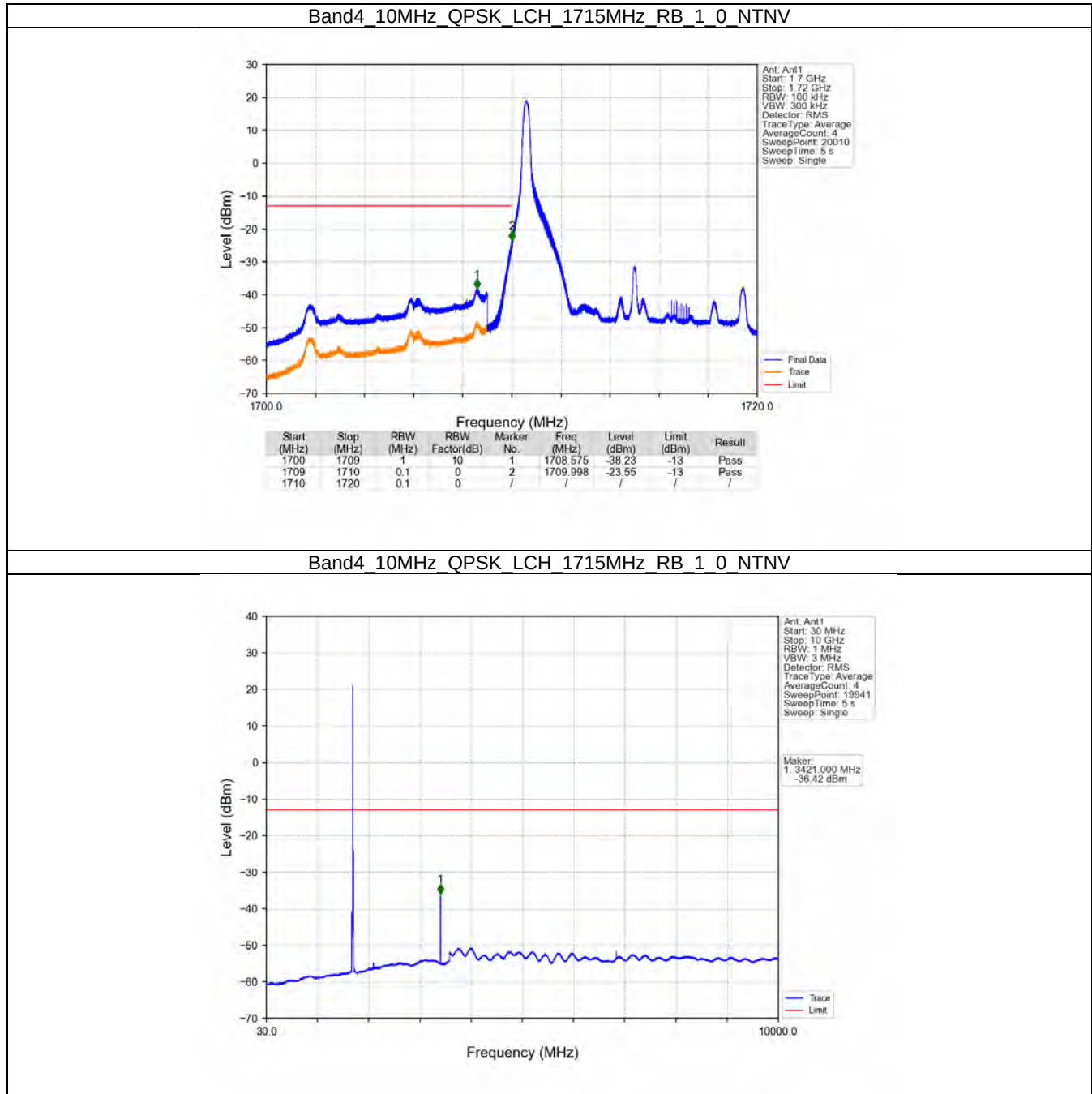
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6.4.2 Test Graph



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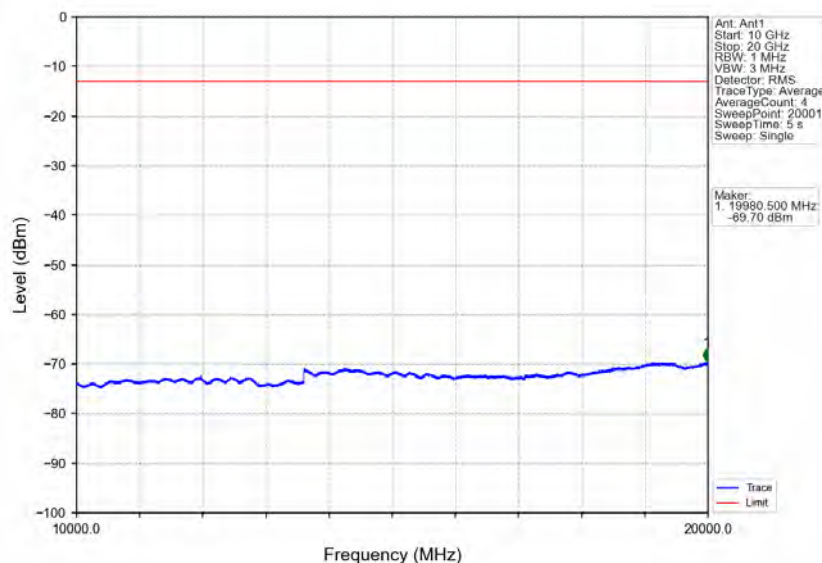
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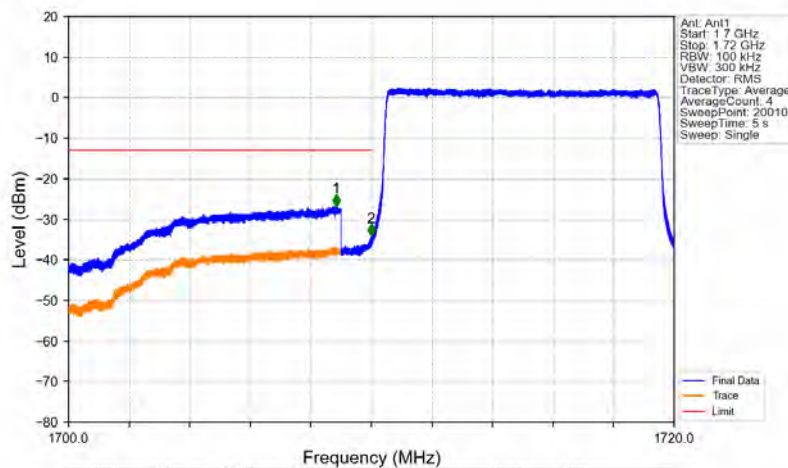
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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	10	1	1708.834	-26.82	-13	Pass
1709	1710	0.1	0	2	1709.990	-34.19	-13	Pass
1710	1720	0.1	0	/	/	/	/	/



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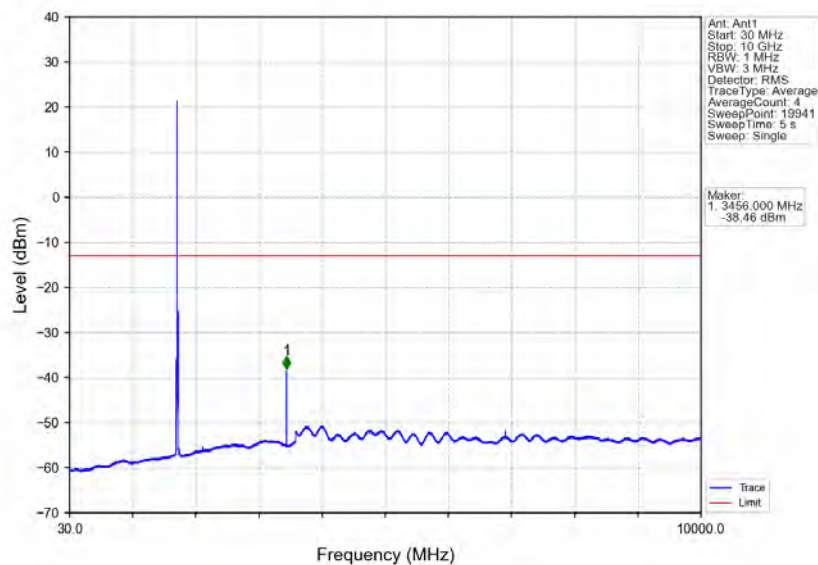
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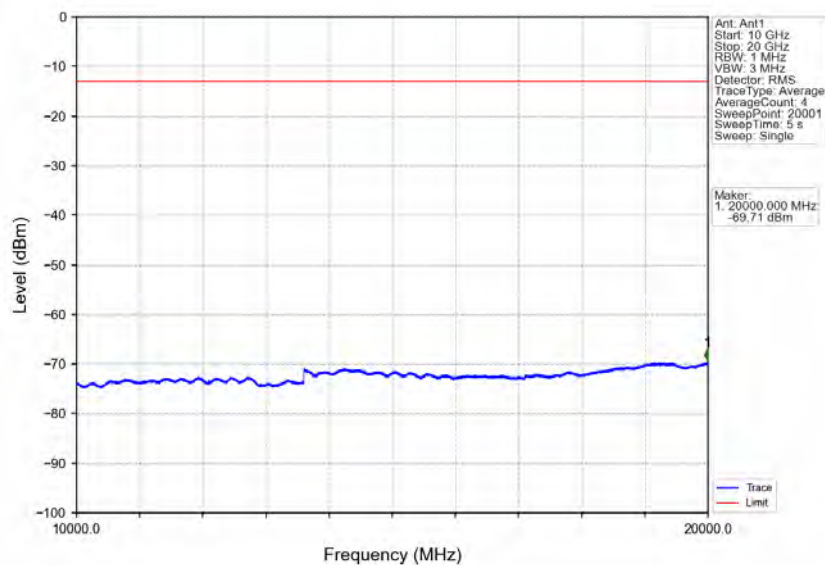
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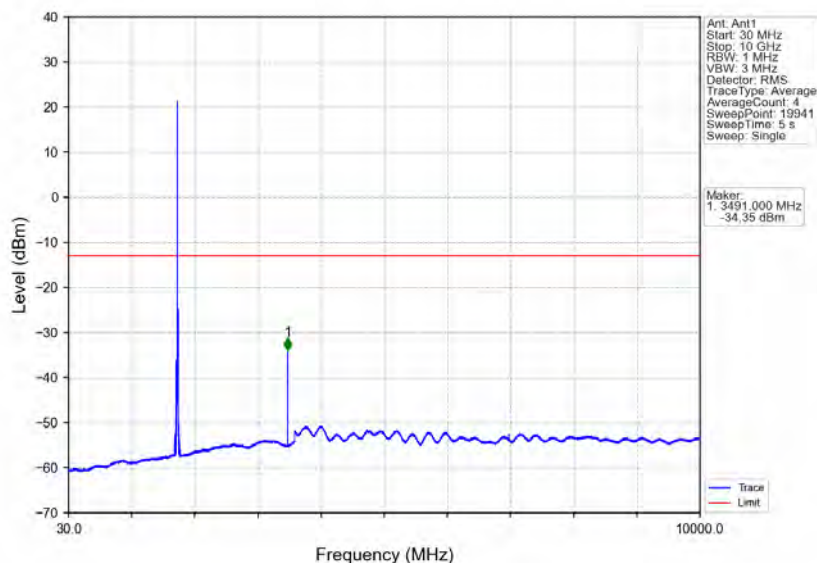
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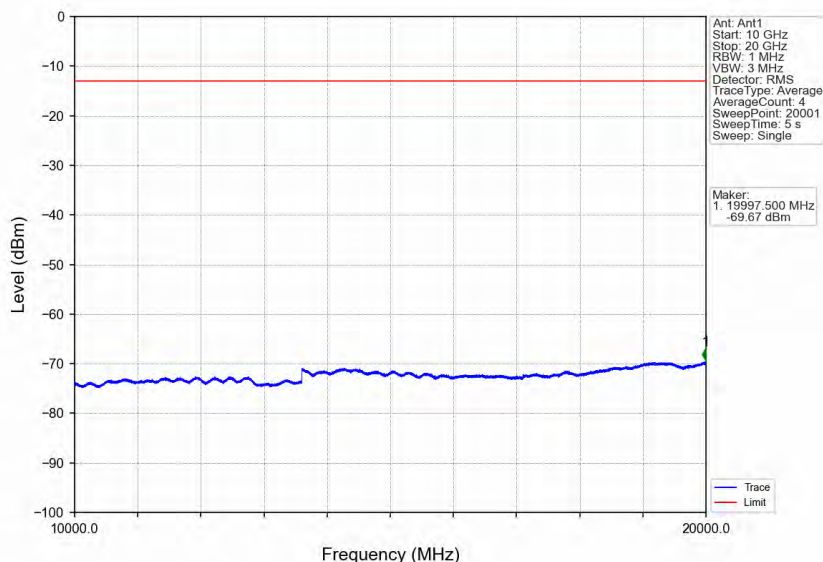
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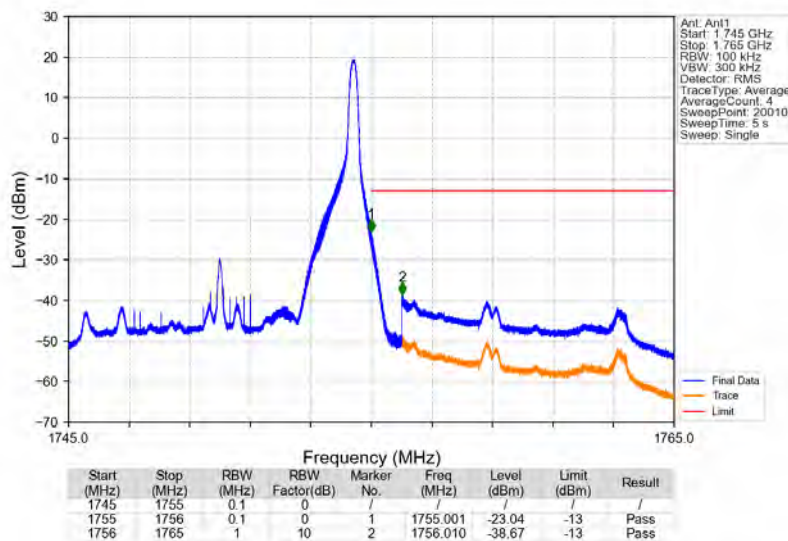
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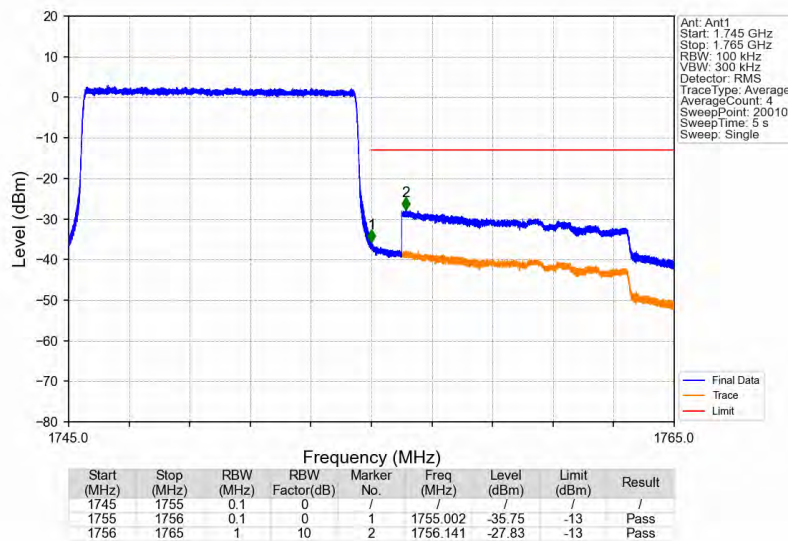
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



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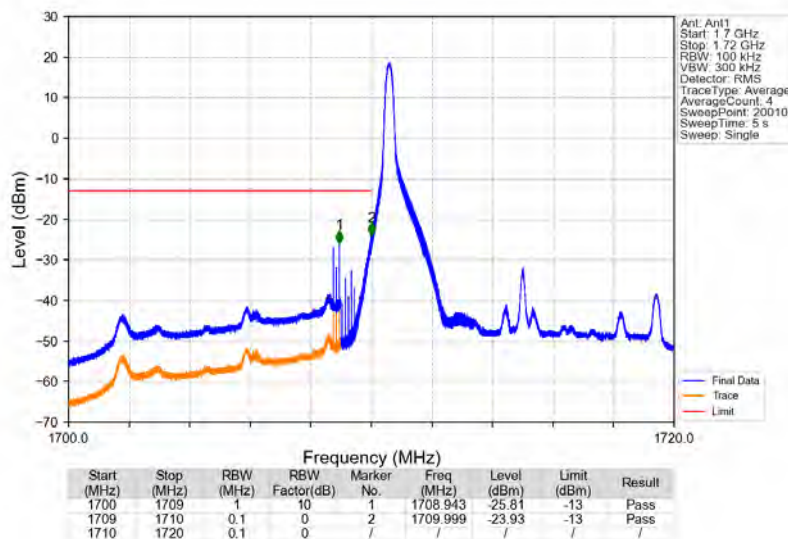
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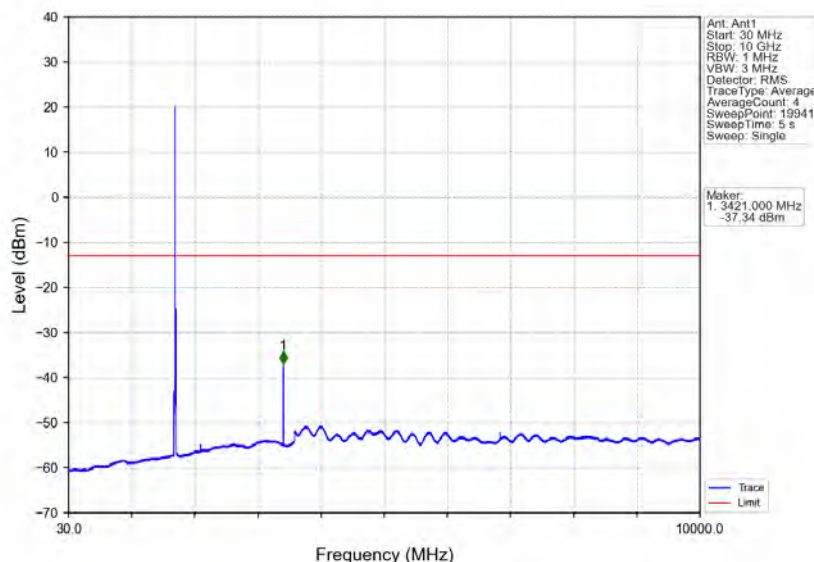
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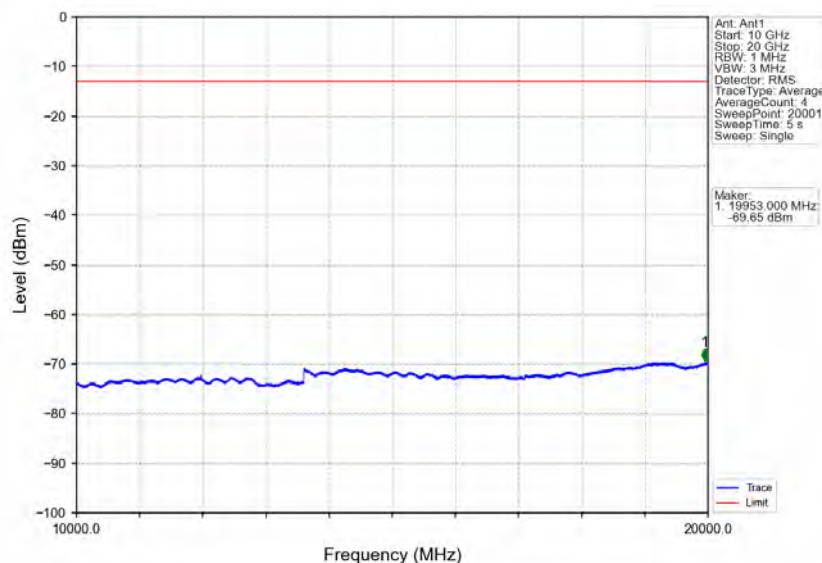
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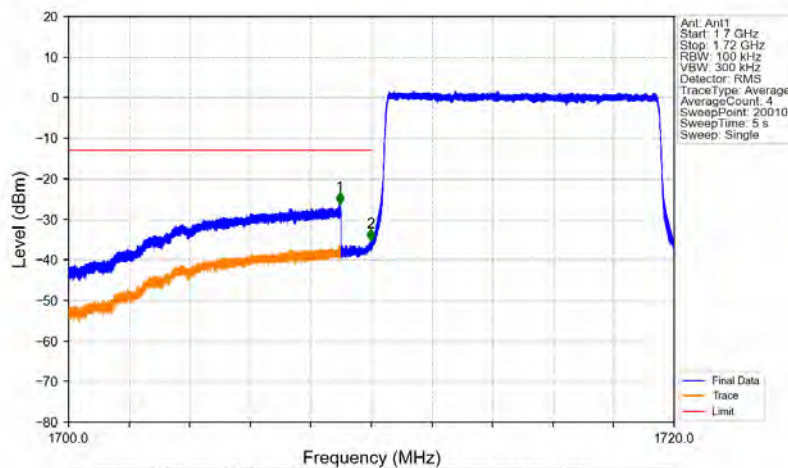
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	10	1	1708.952	-26.33	-13	Pass
1709	1710	0.1	0	2	1709.970	-35.40	-13	Pass
1710	1720	0.1	0	/	/	/	/	/



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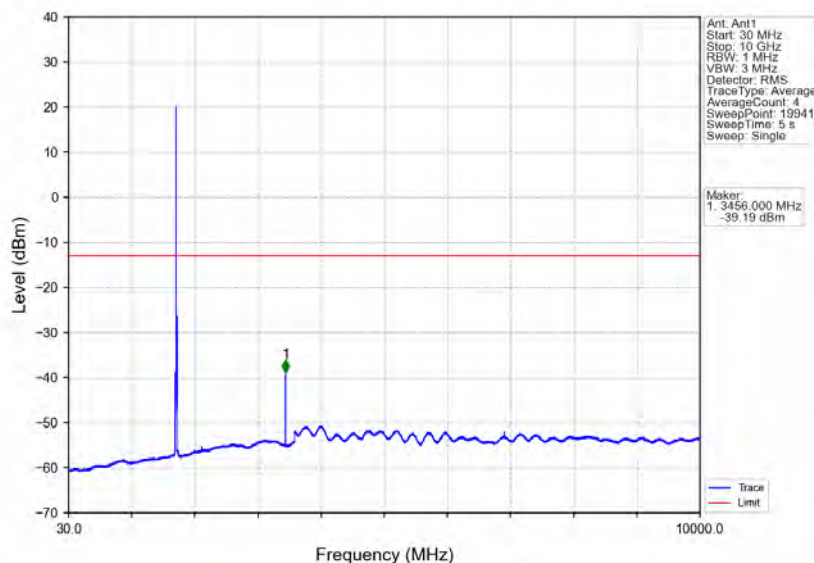
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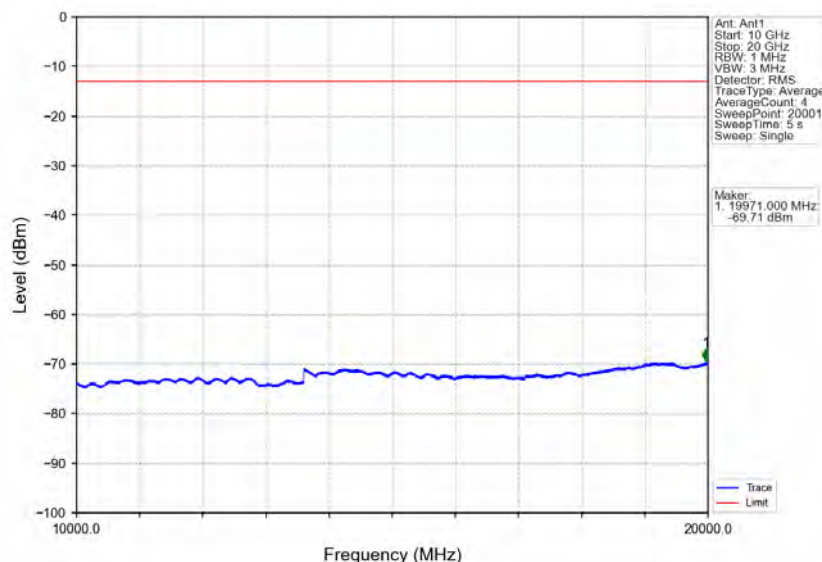
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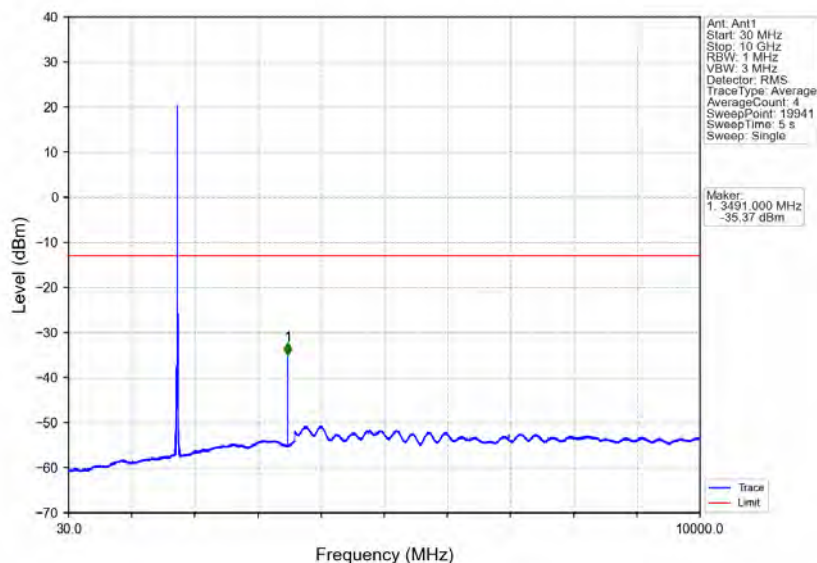
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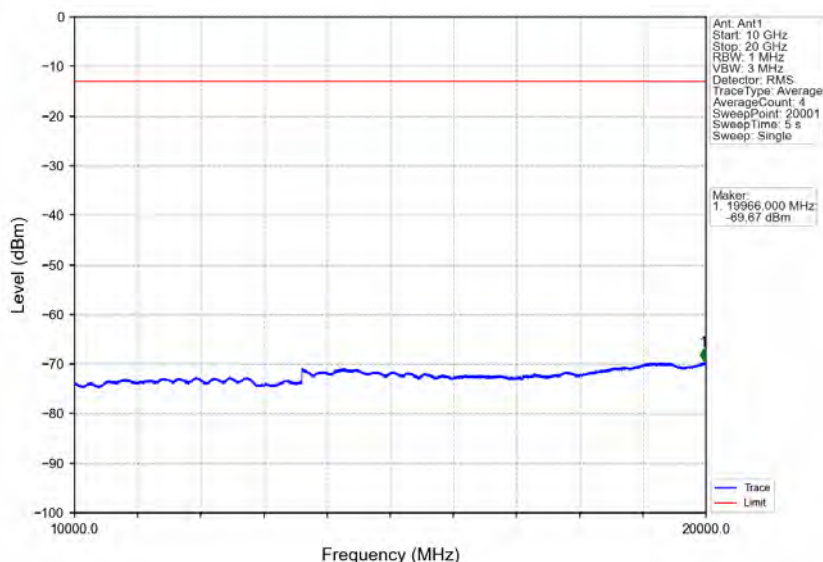
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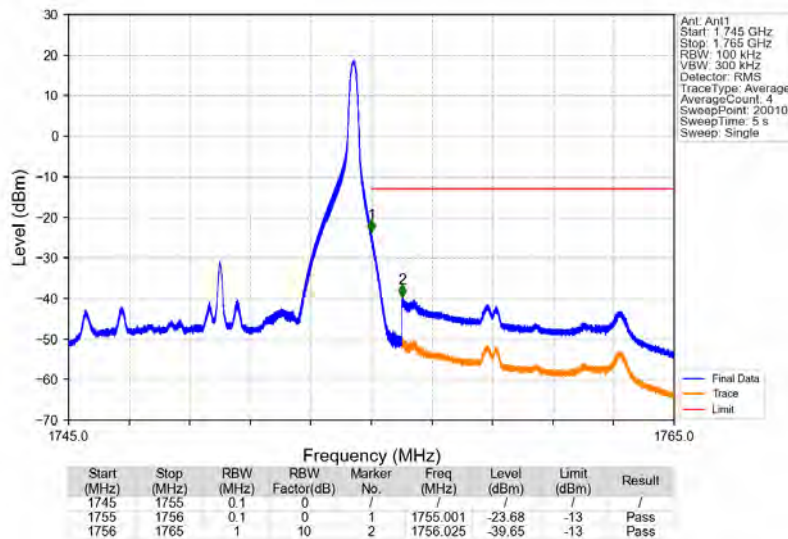
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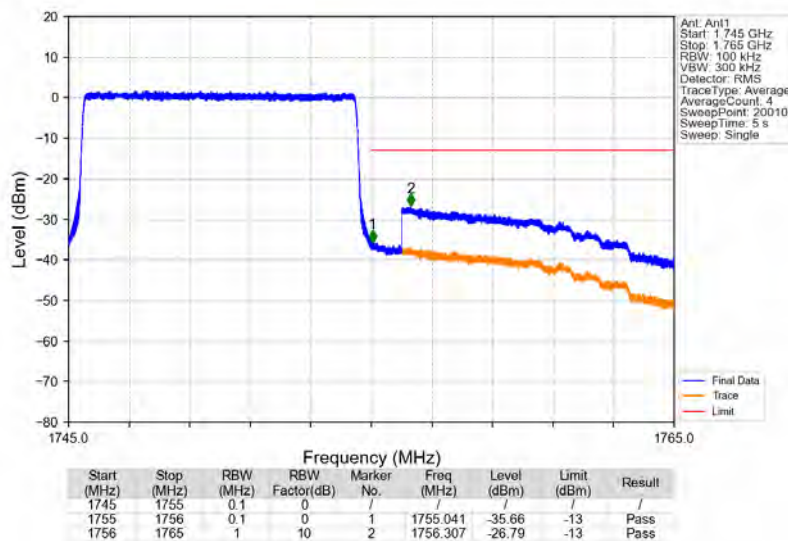
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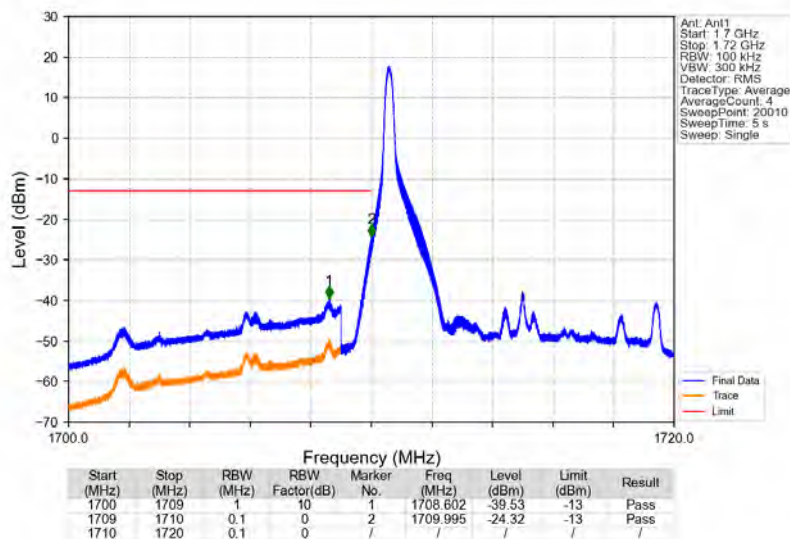
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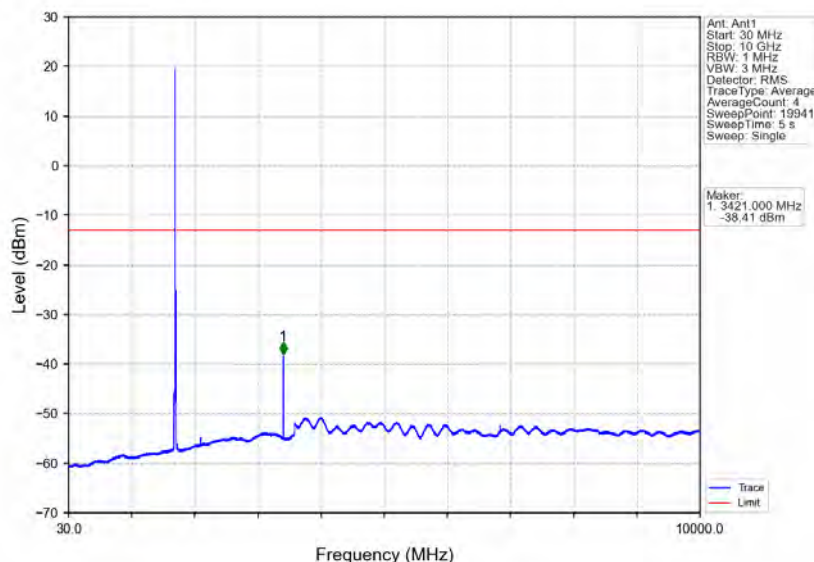
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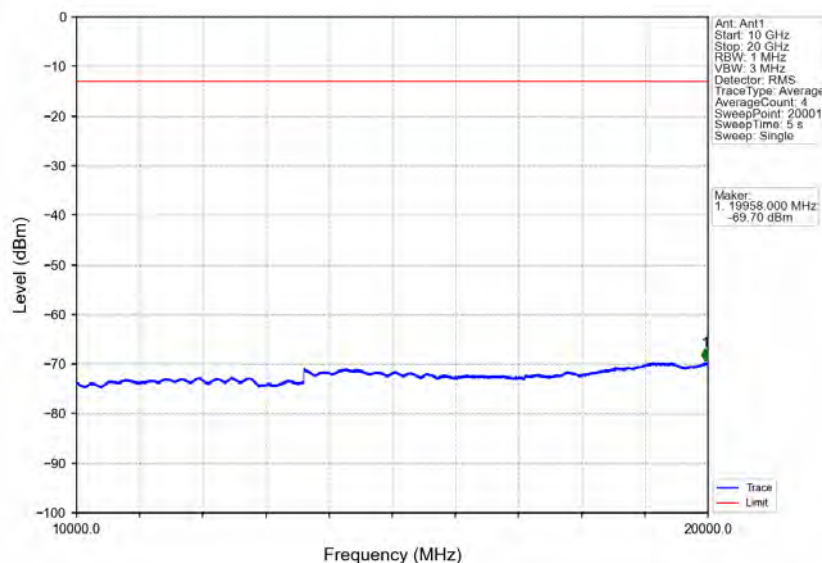
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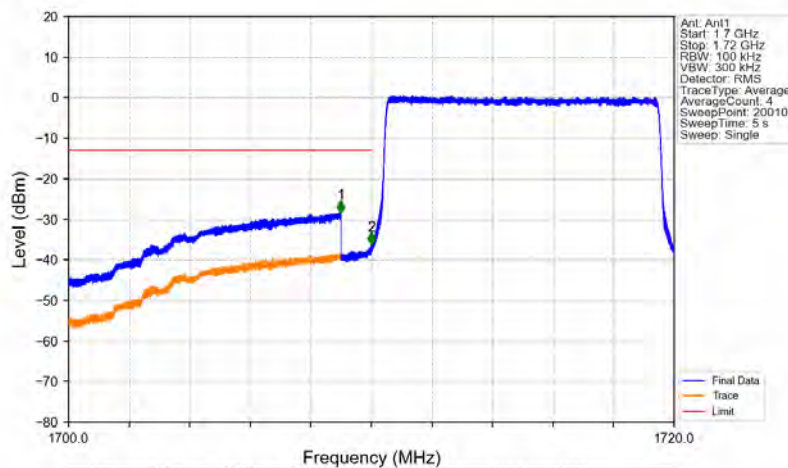
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Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	10	1	1708.981	-28.42	-13	Pass
1709	1710	0.1	0	2	1709.996	-36.31	-13	Pass
1710	1720	0.1	0	/	/	/	/	/



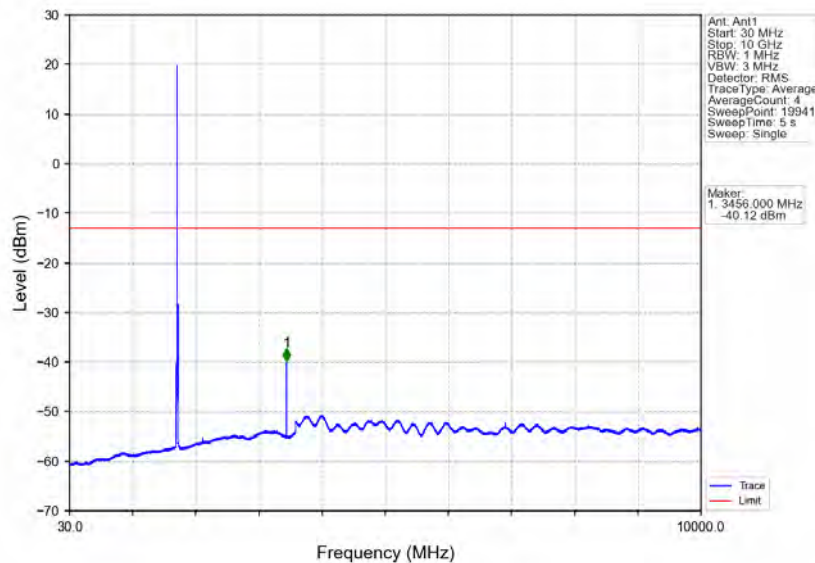
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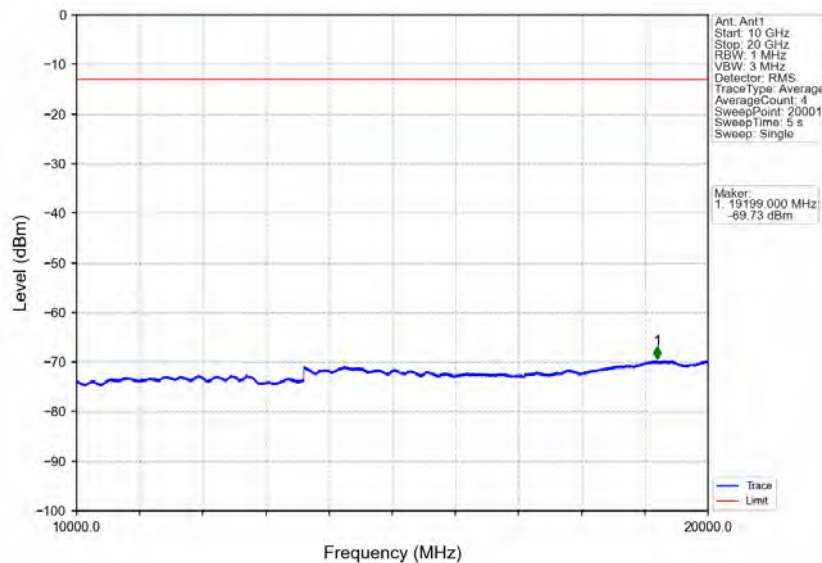
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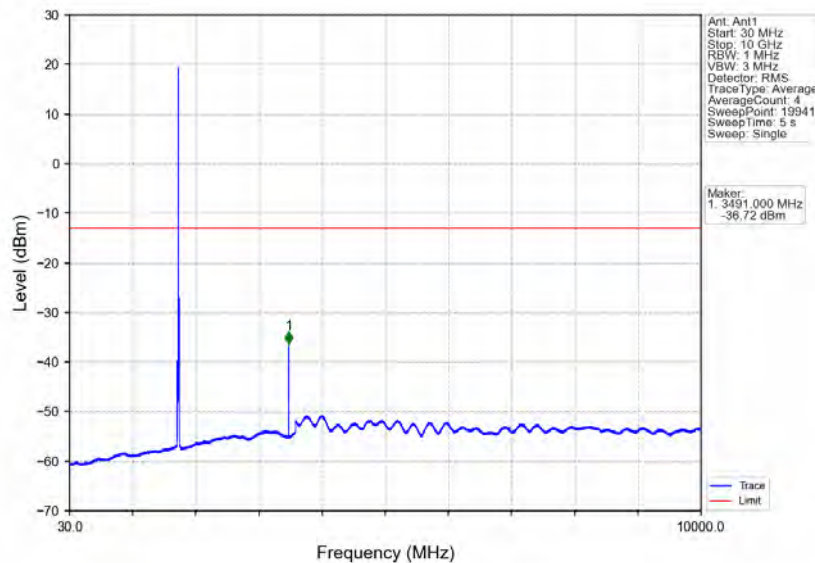
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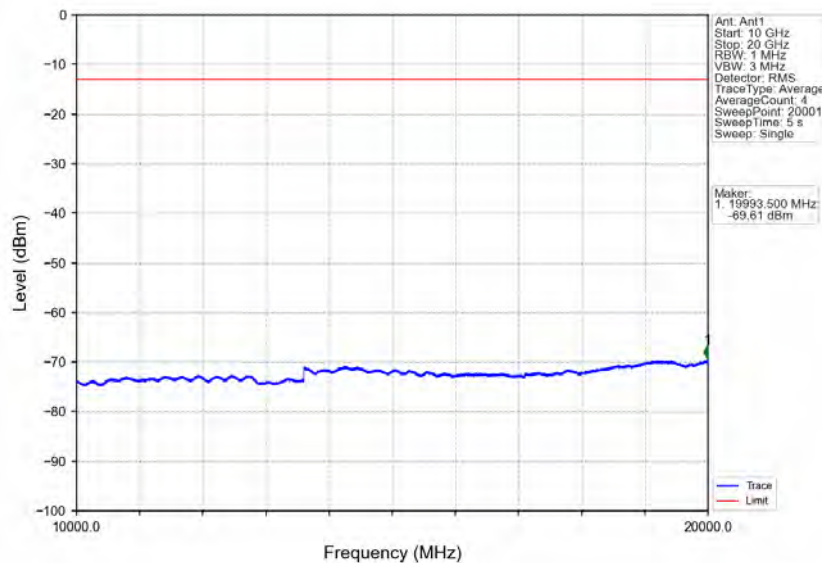
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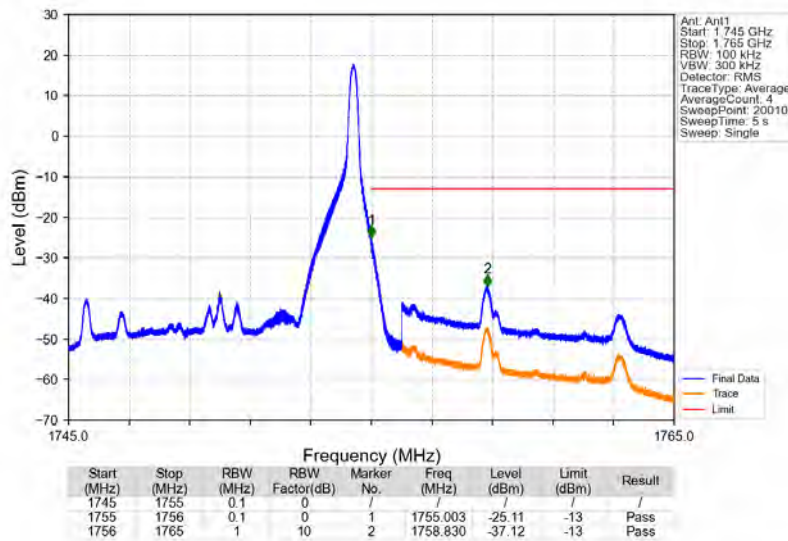
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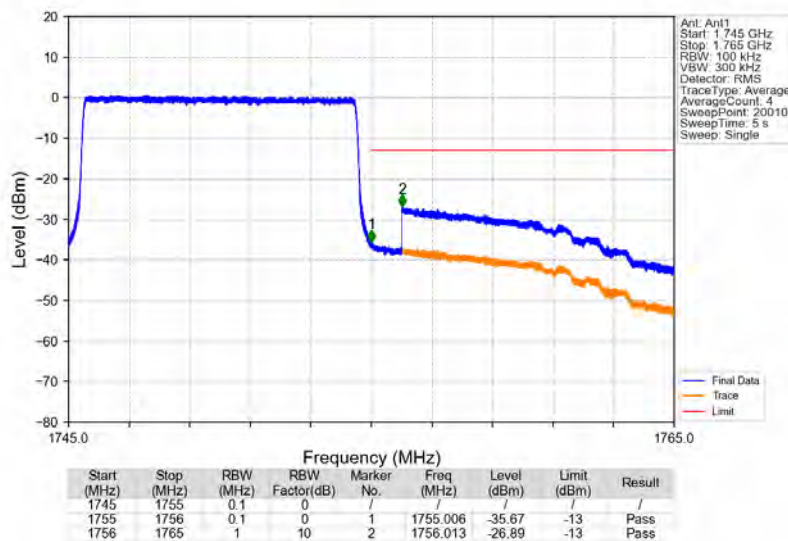
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6.5 B4_15MHz

6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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	1	0	Refer To Test Graph	Pass
		75	0	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	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
64QAM	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	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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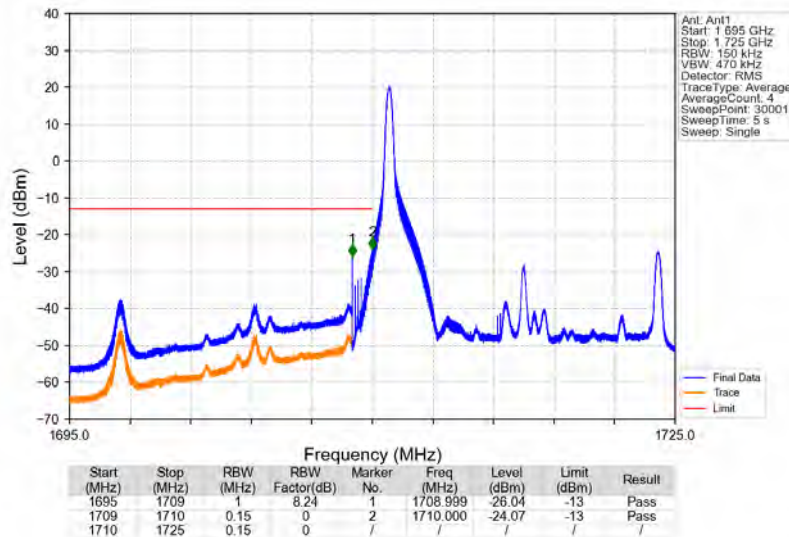
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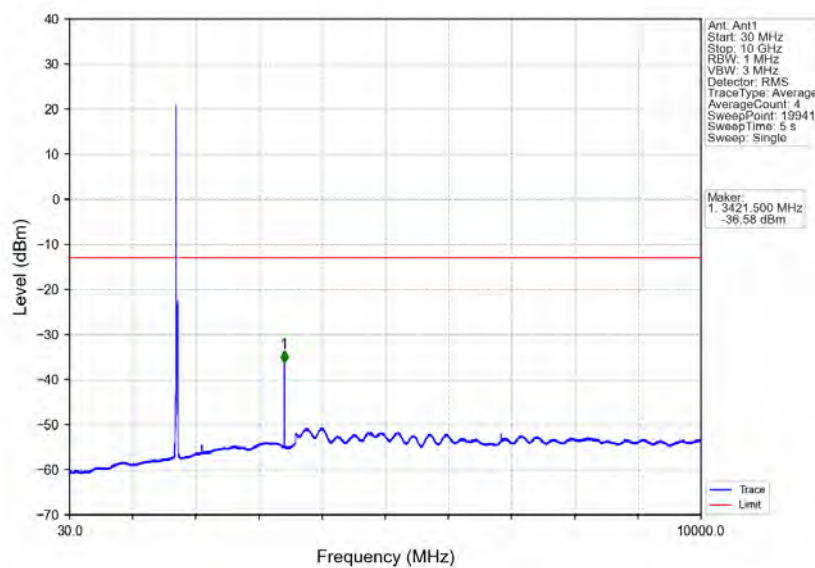
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6.5.2 Test Graph

Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



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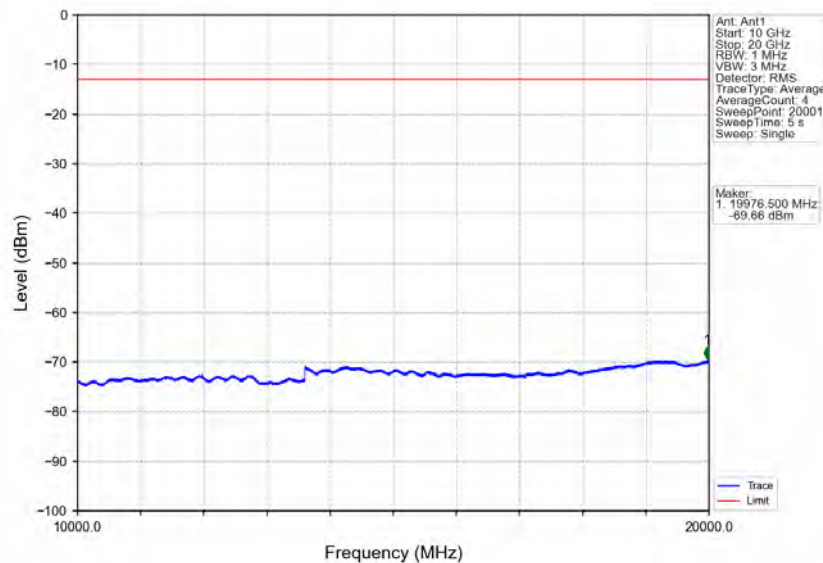
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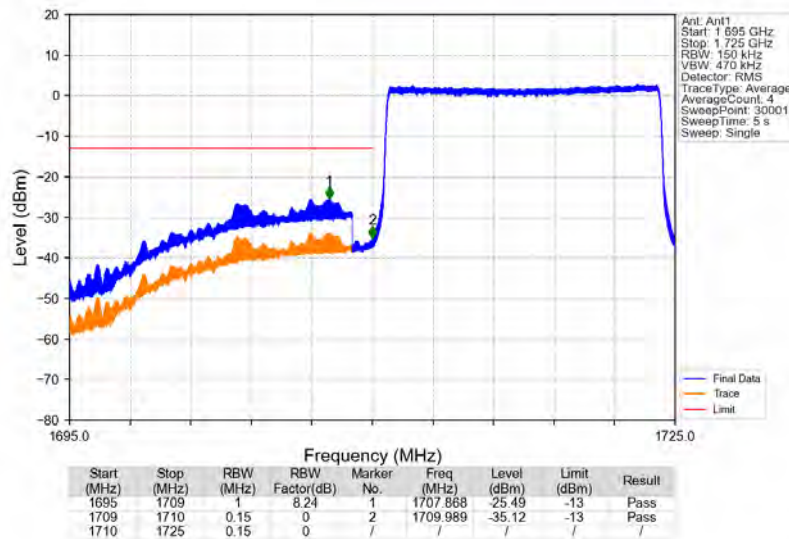
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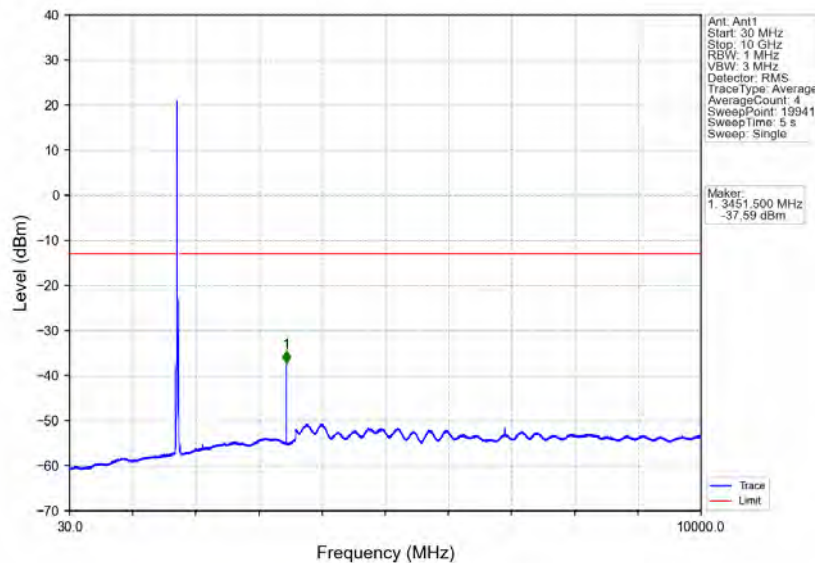
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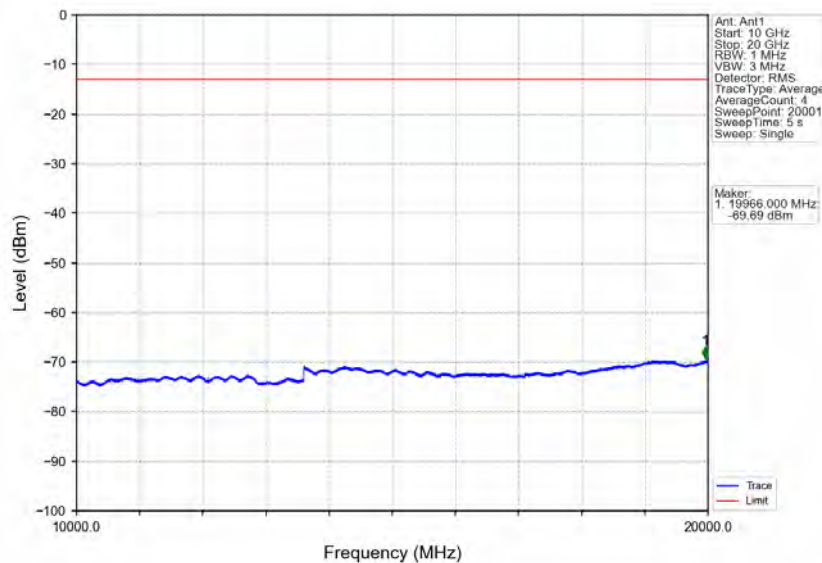
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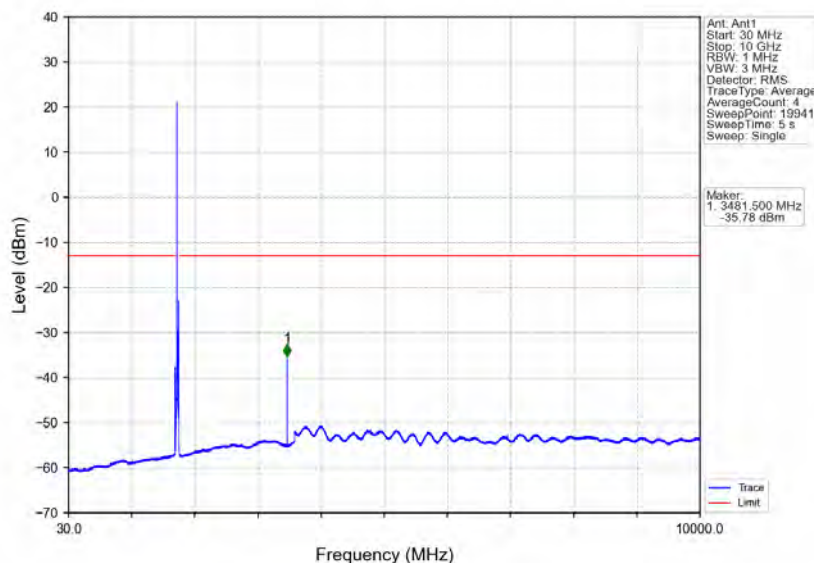
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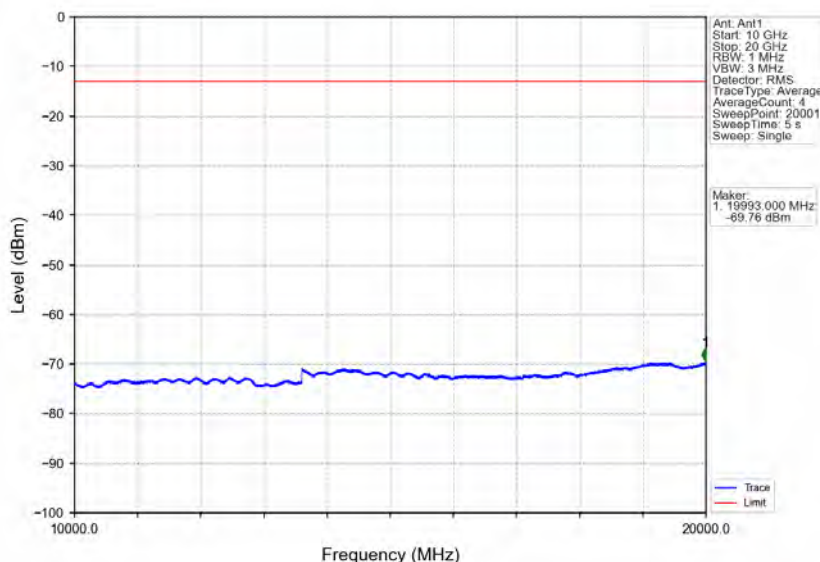
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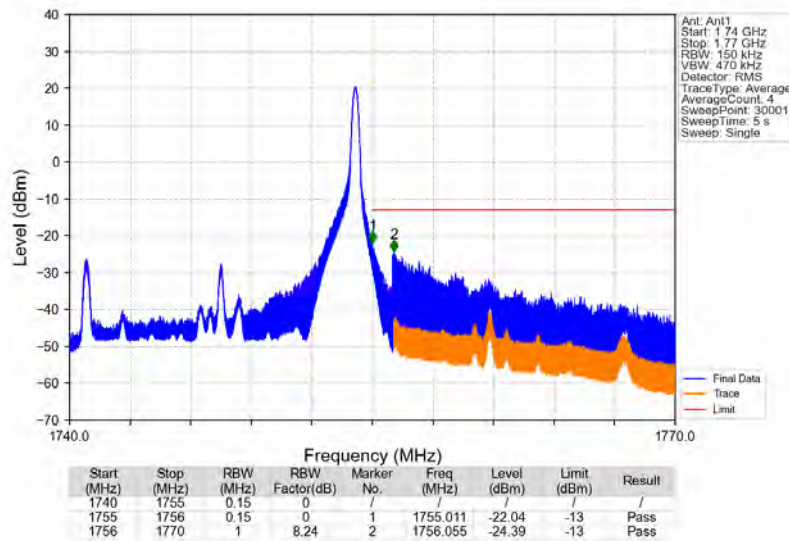
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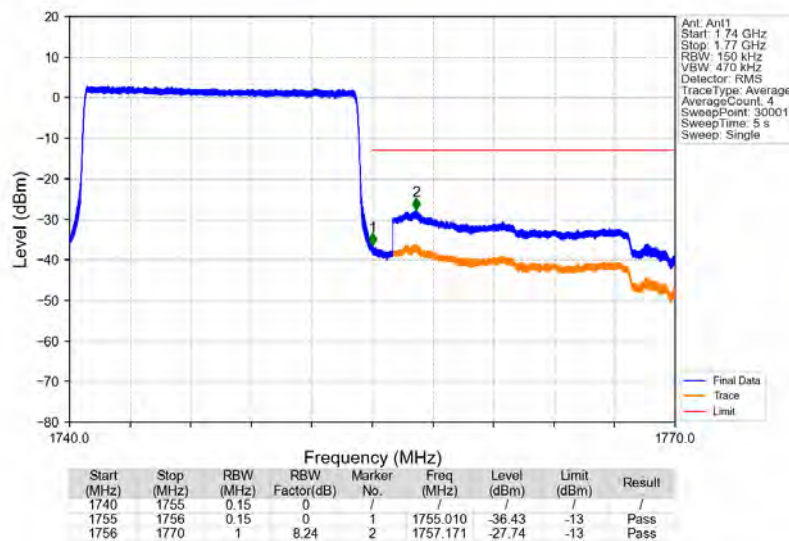
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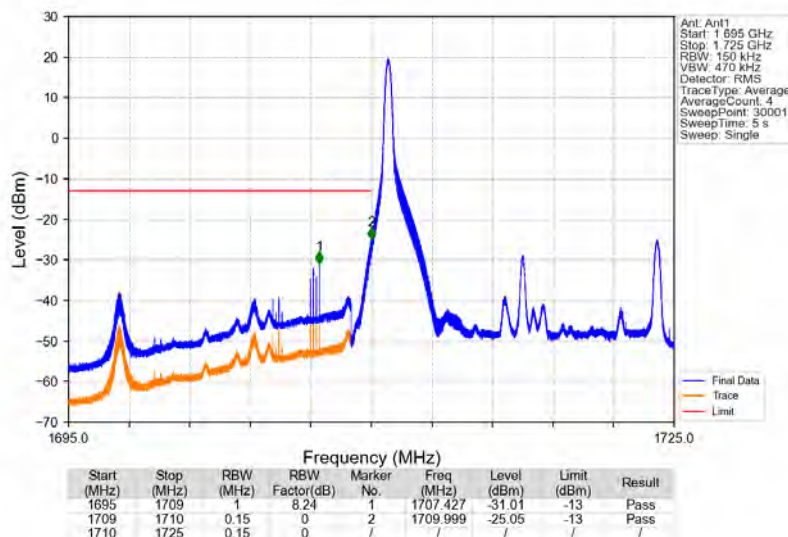
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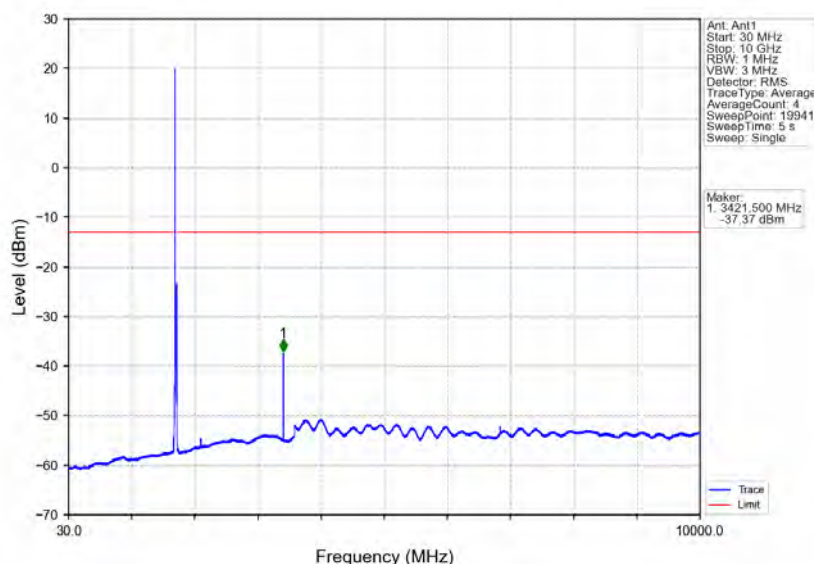
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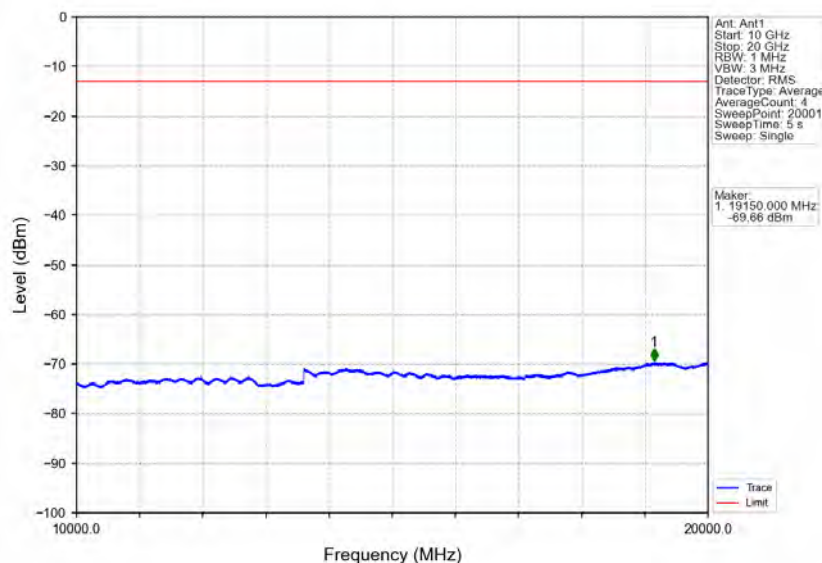
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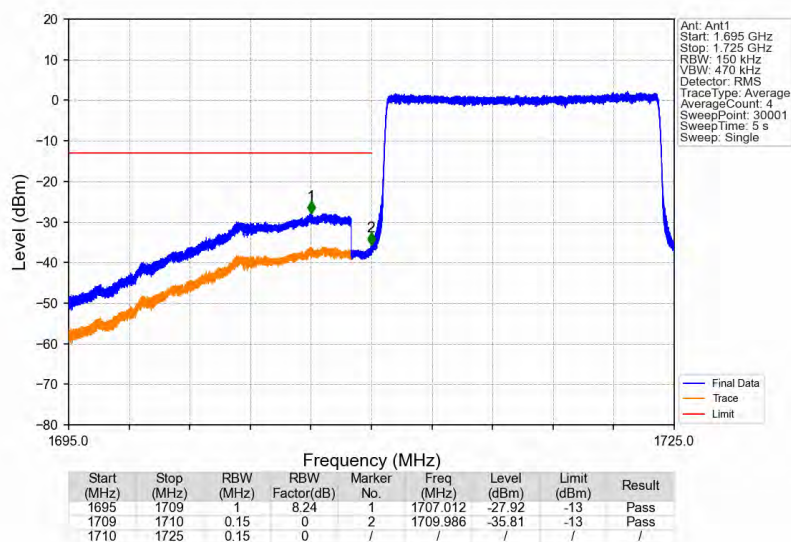
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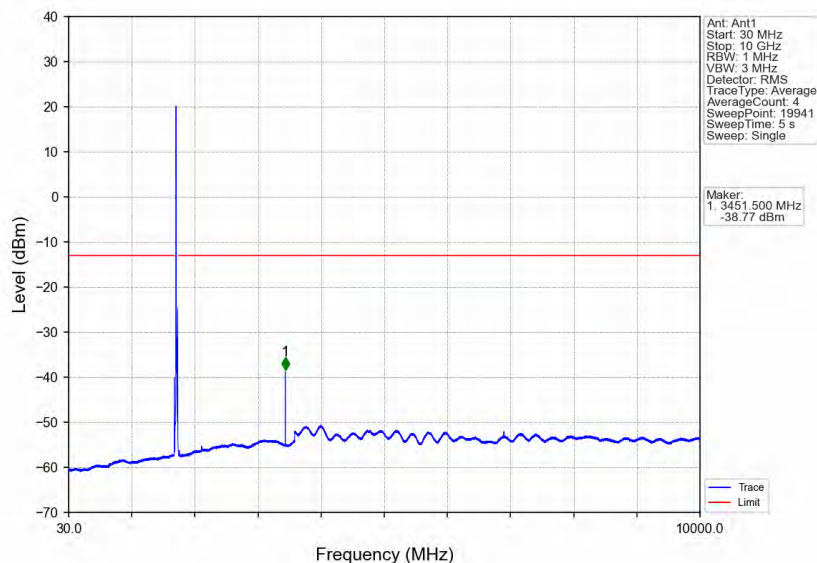
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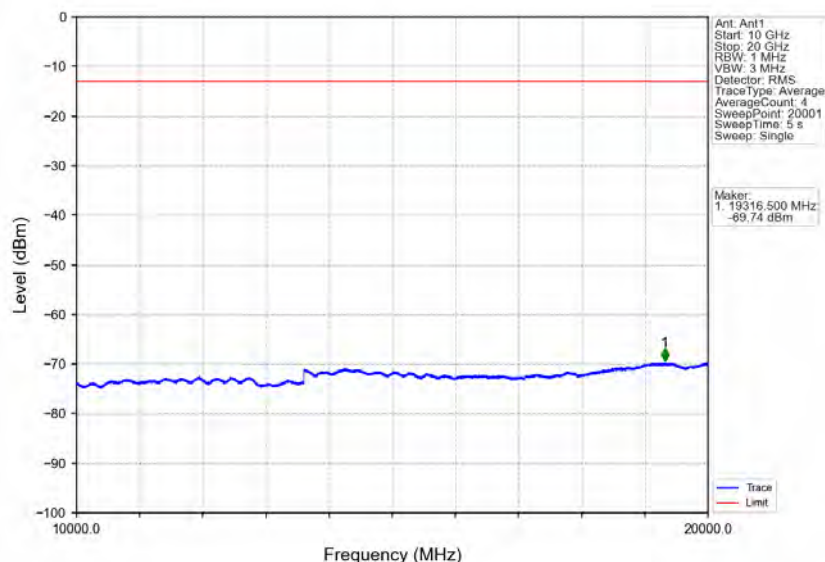
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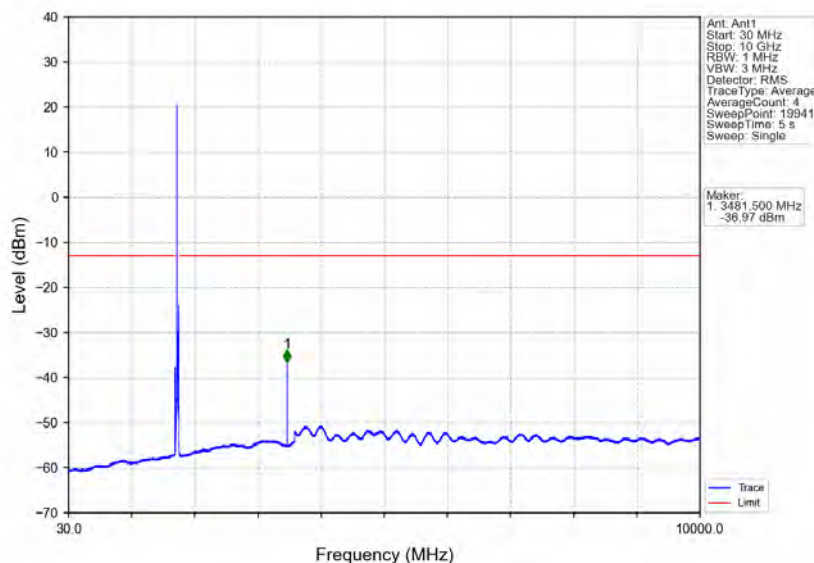
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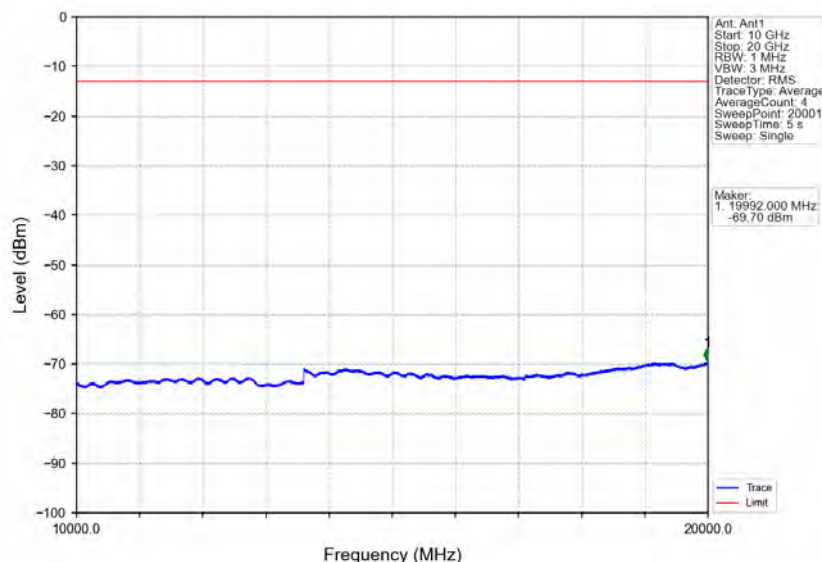
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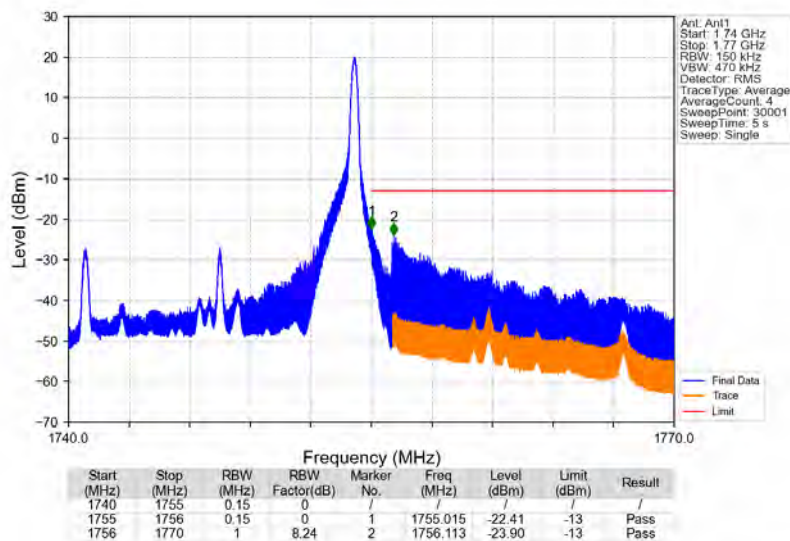
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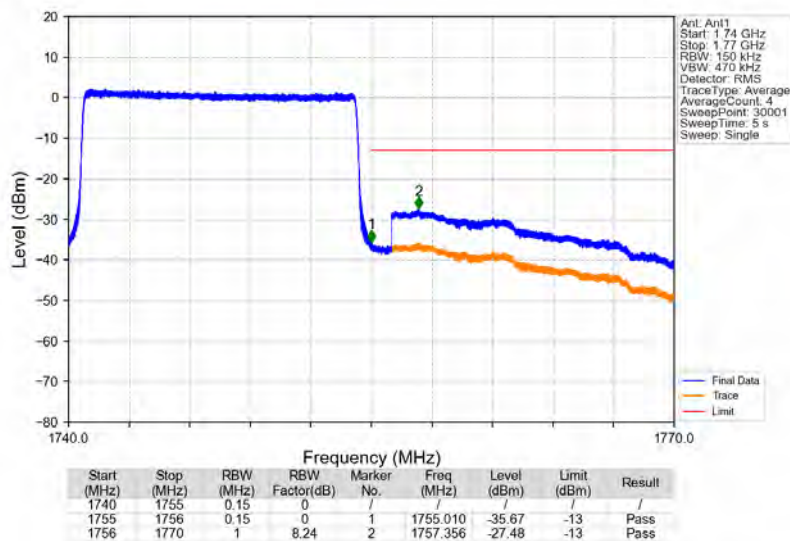
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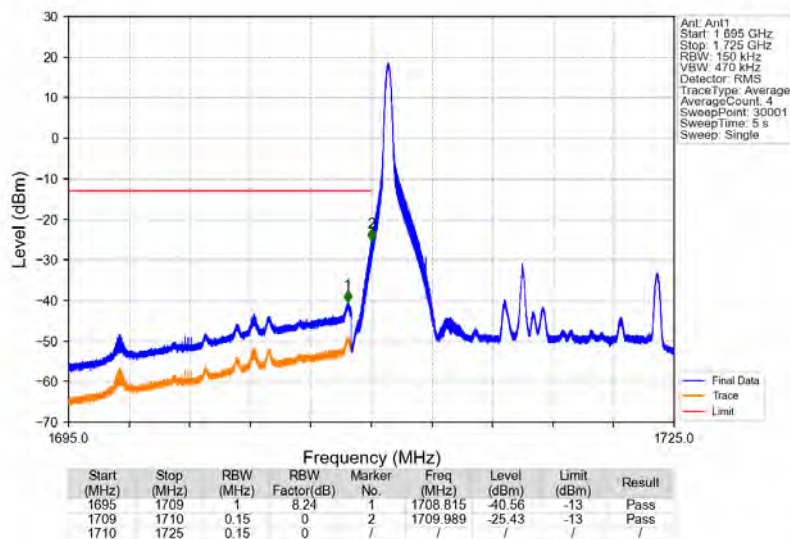
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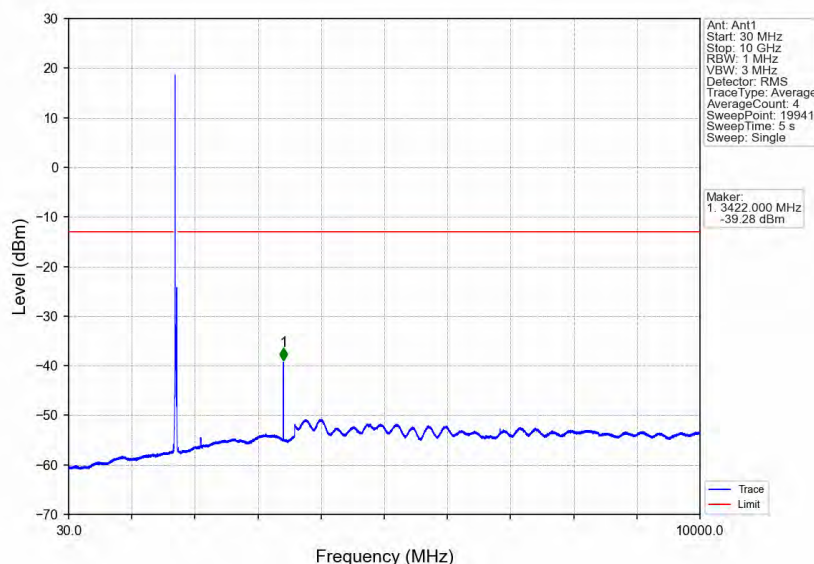
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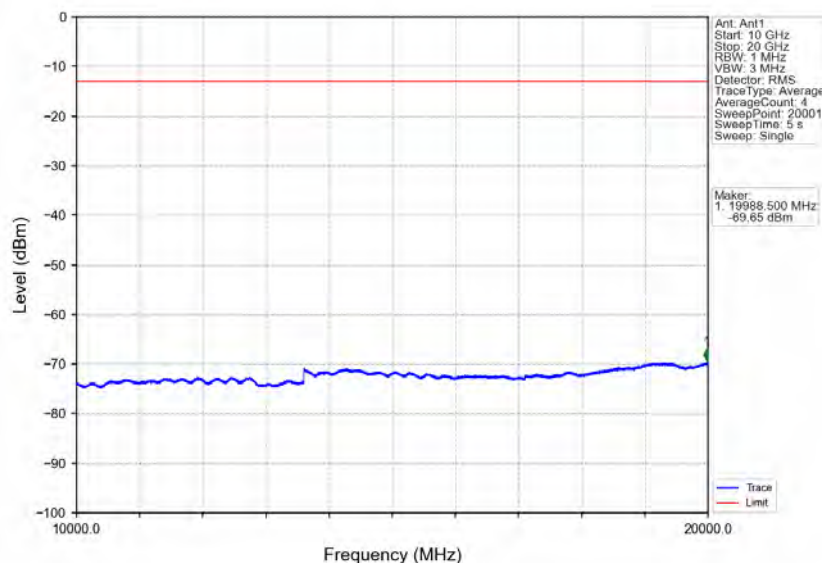
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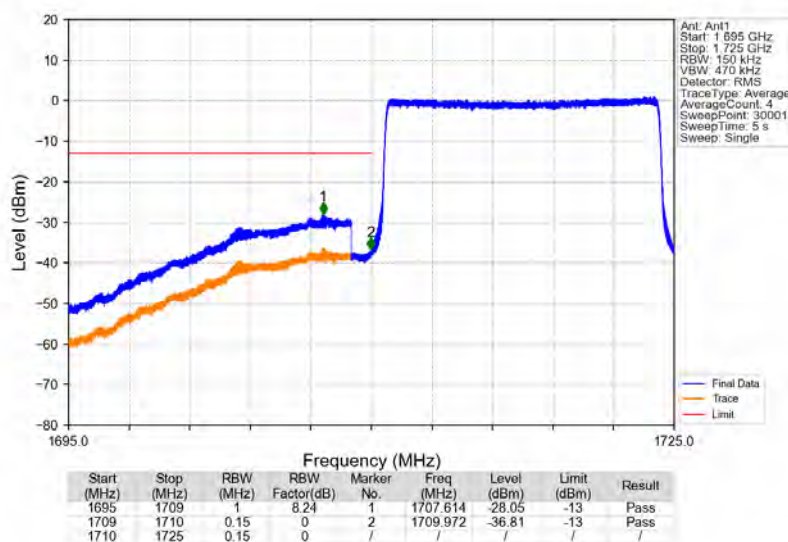
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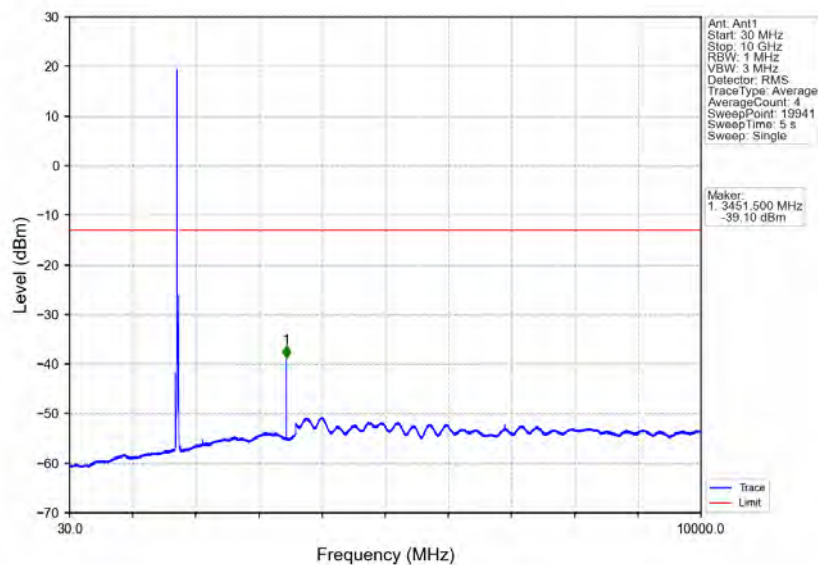
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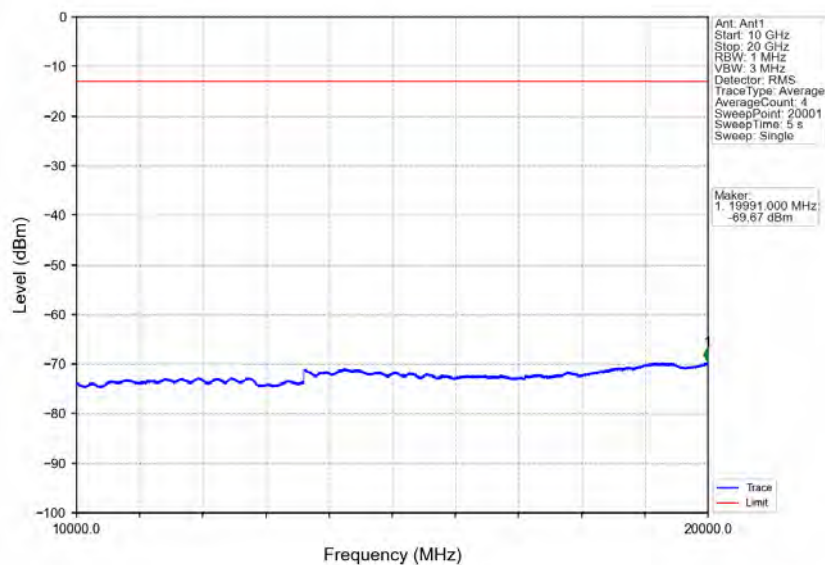
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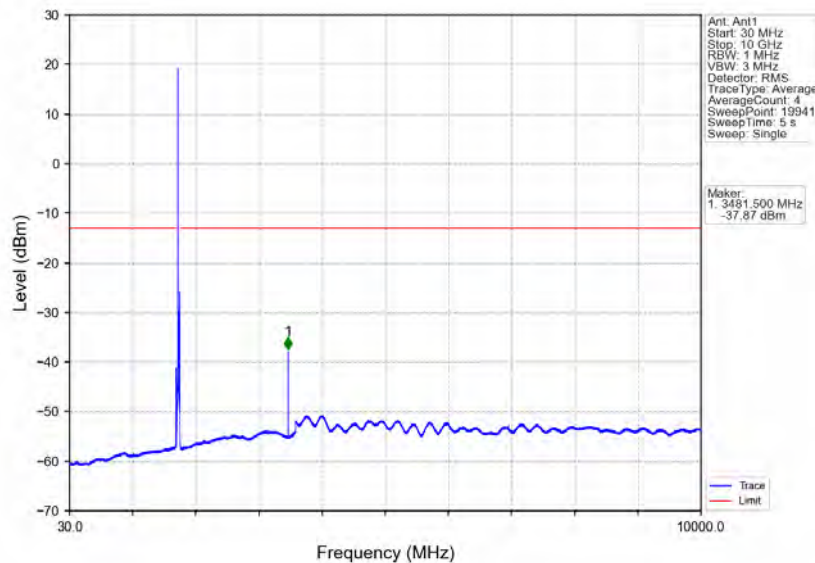
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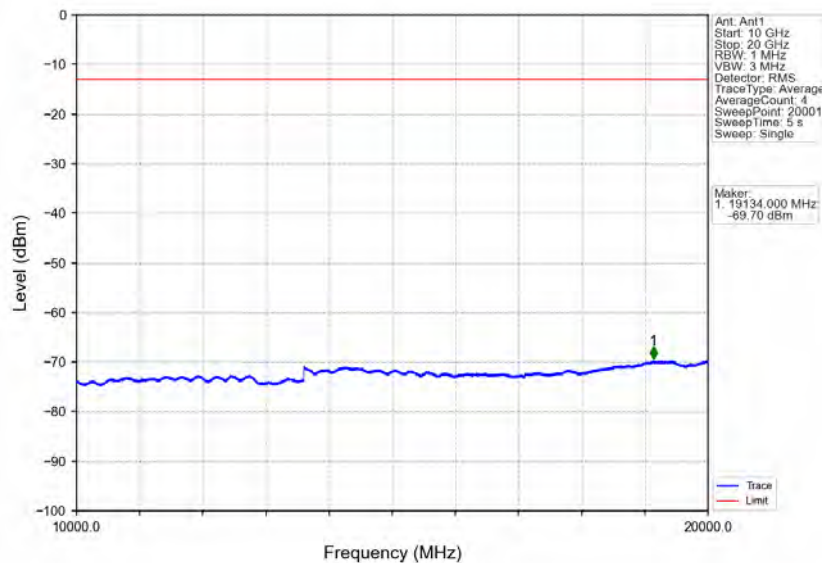
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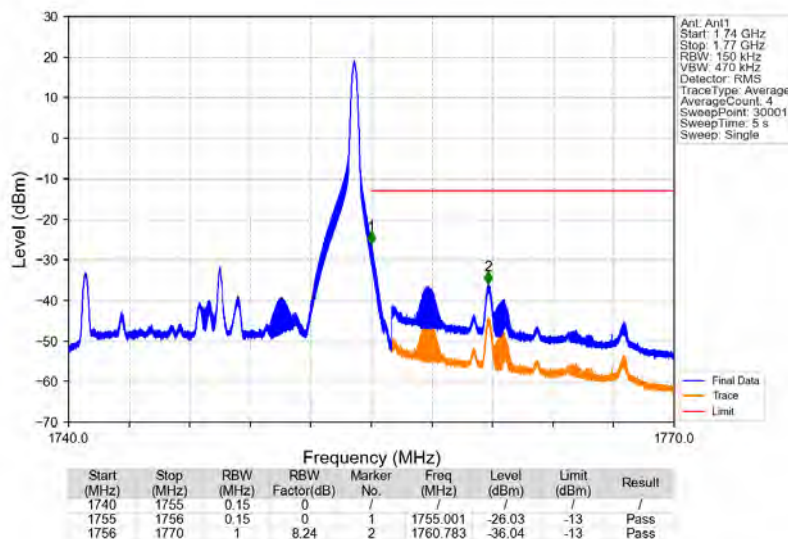
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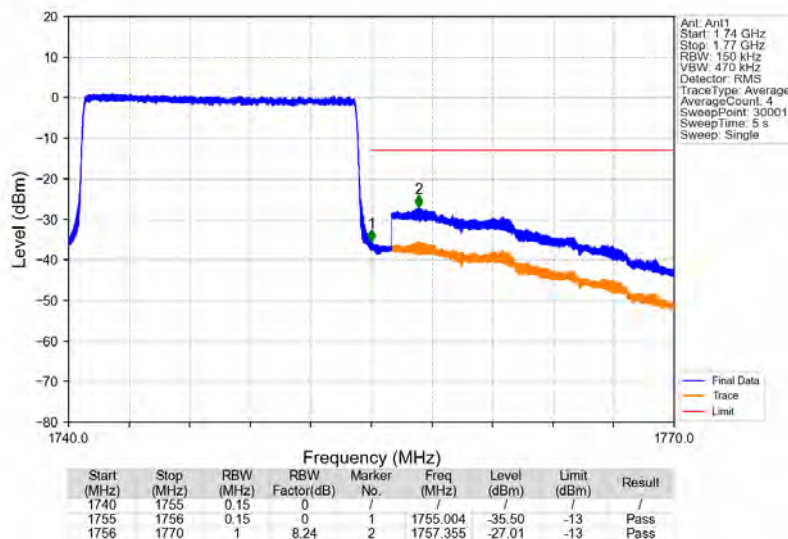
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6.6 B4_20MHz

6.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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	1	0	Refer To Test Graph	Pass
		100	0	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	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
64QAM	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	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



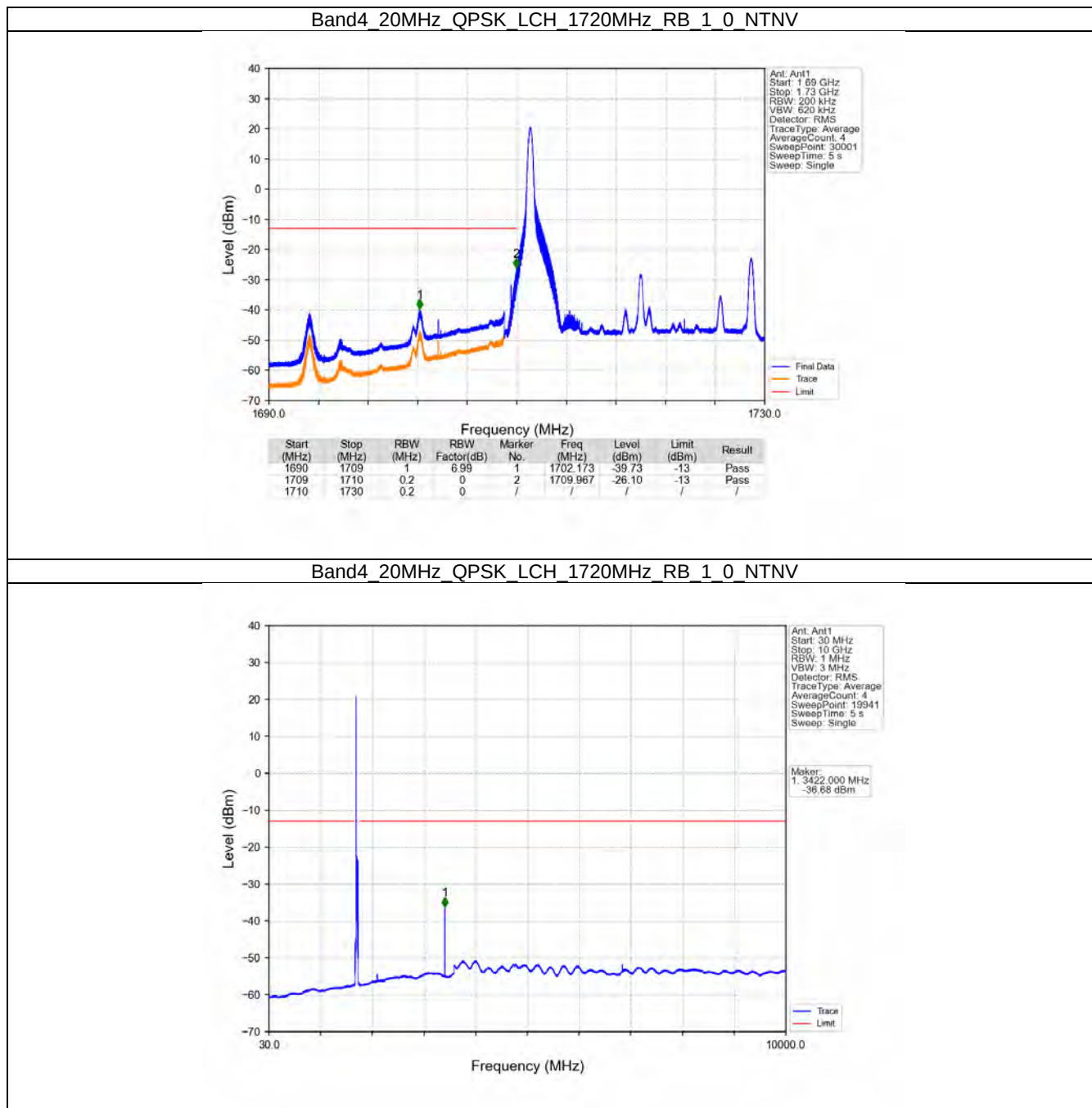
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6.6.2 Test Graph



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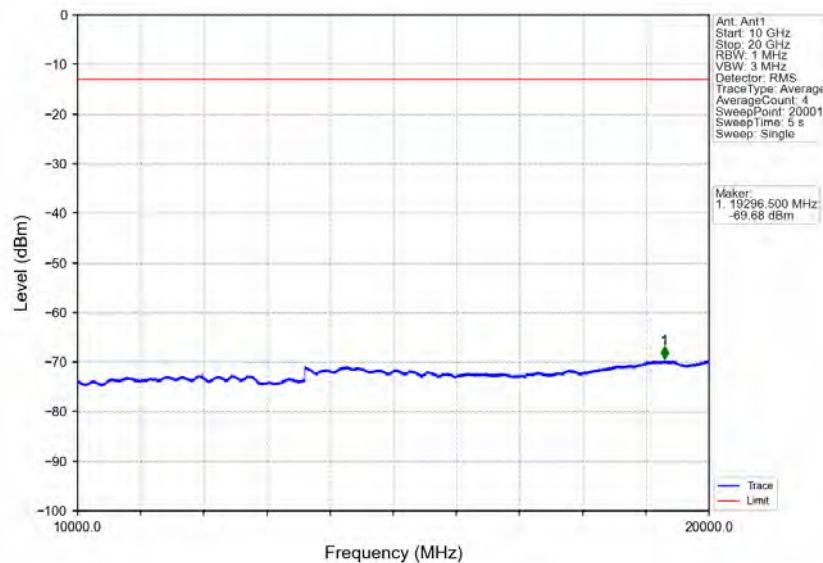
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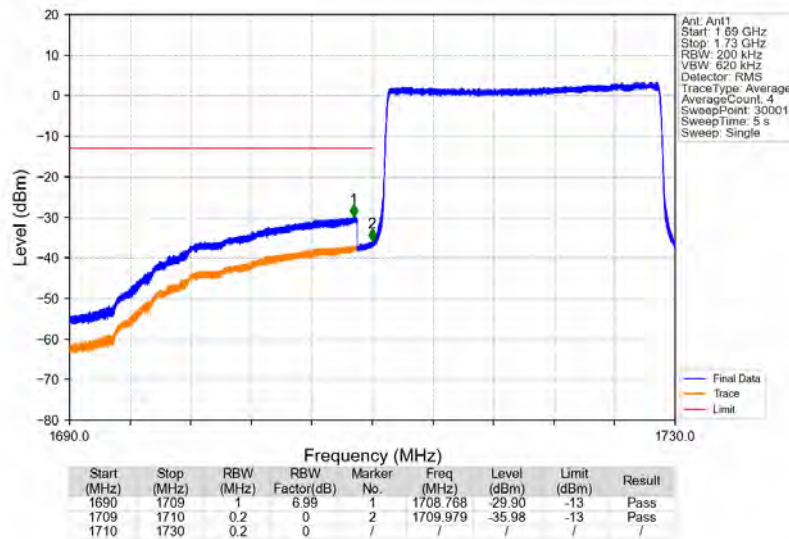
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



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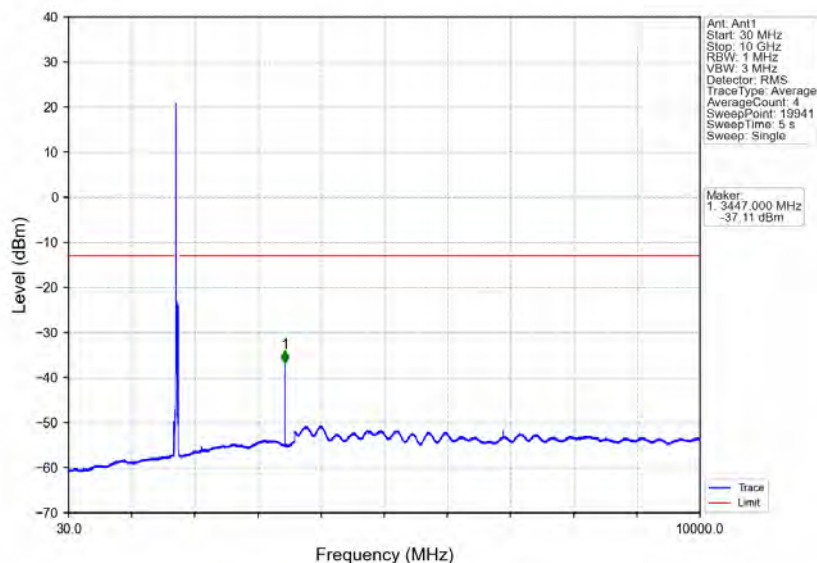
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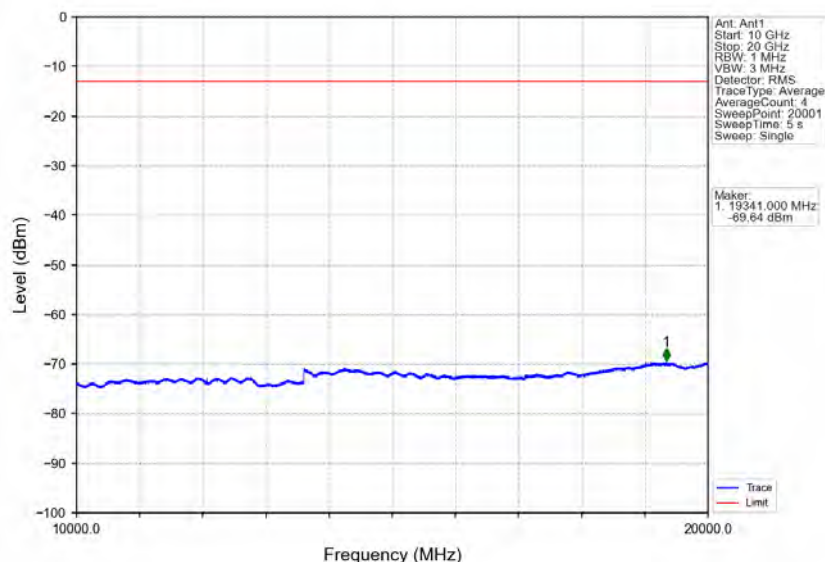
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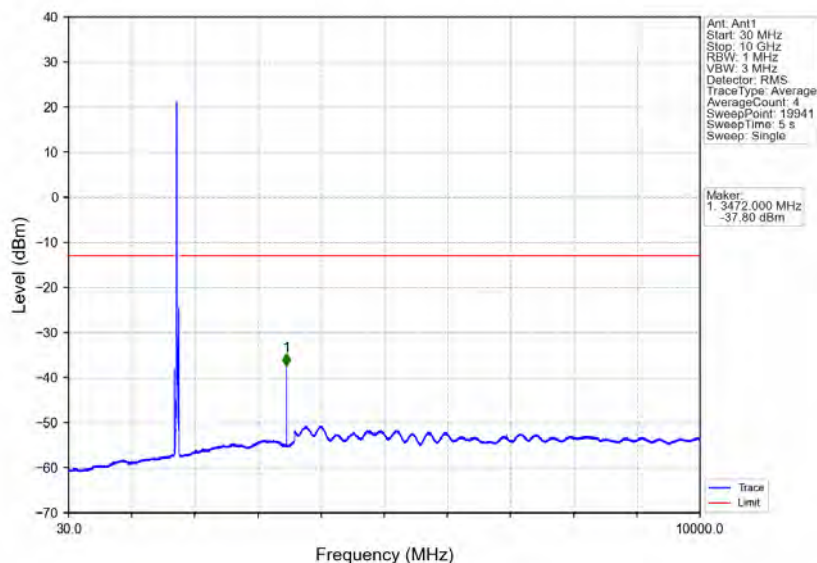
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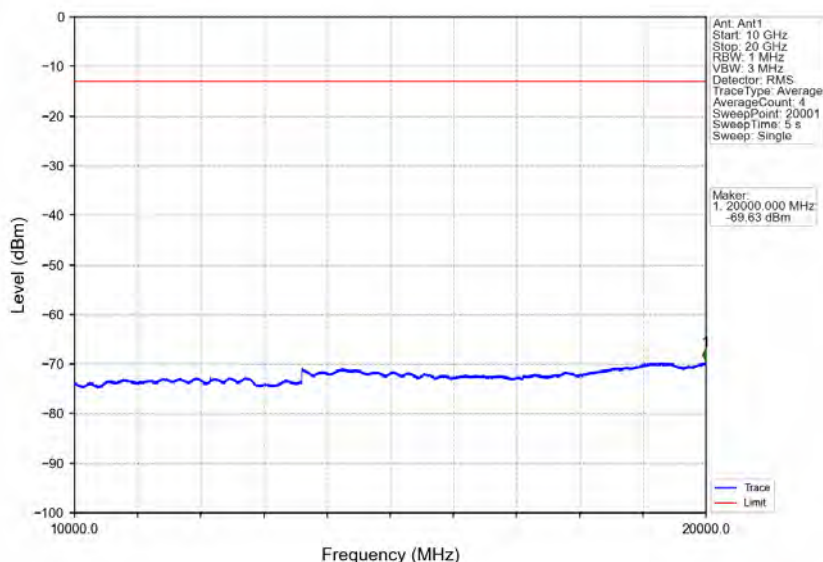
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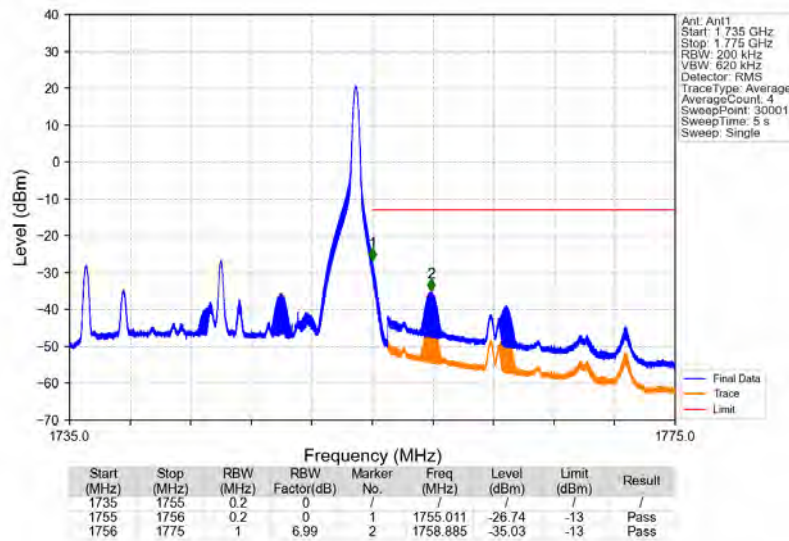
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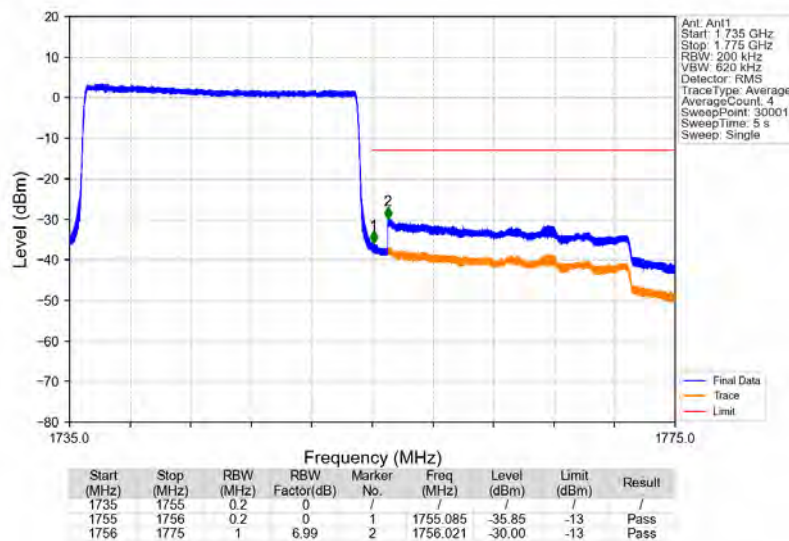
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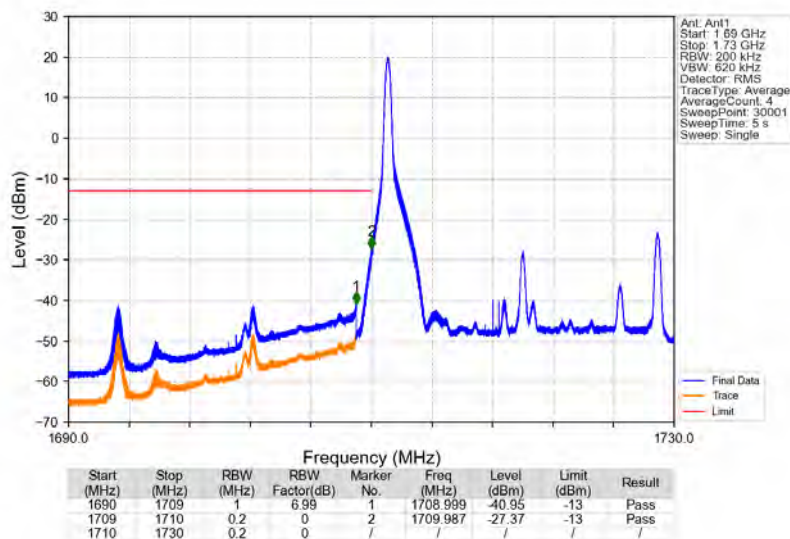
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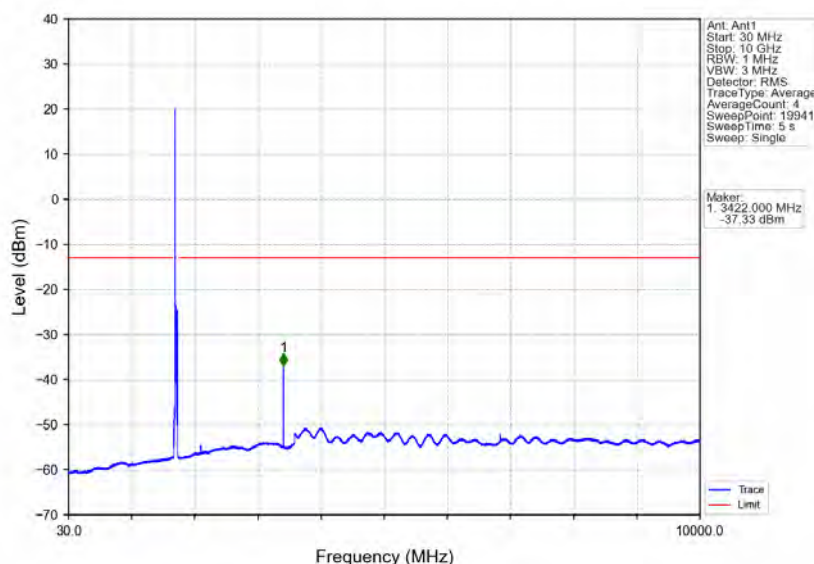
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Band4_20MHz_16QAM_LCH_1720MHz_RB_1_0_NTNV



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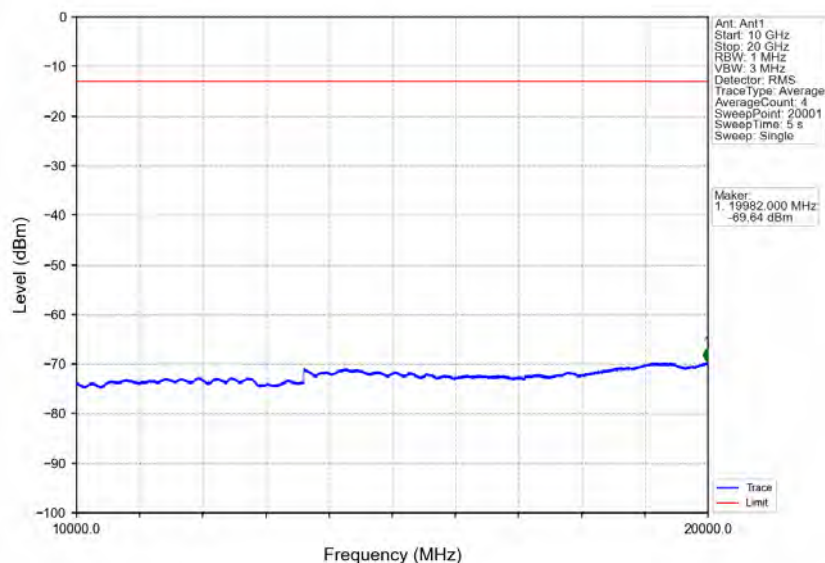
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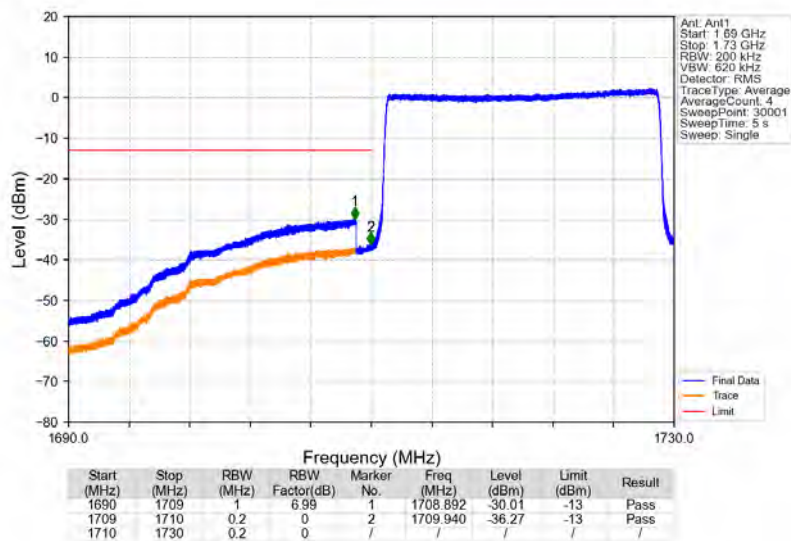
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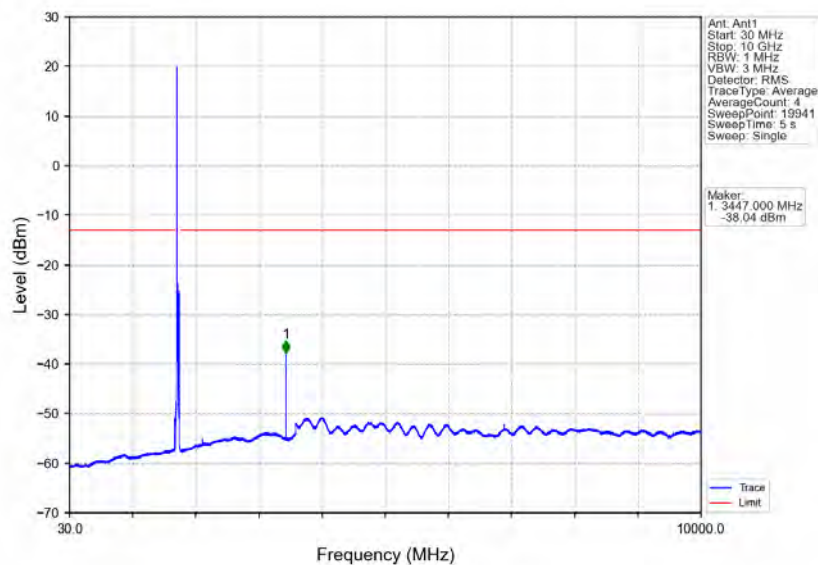
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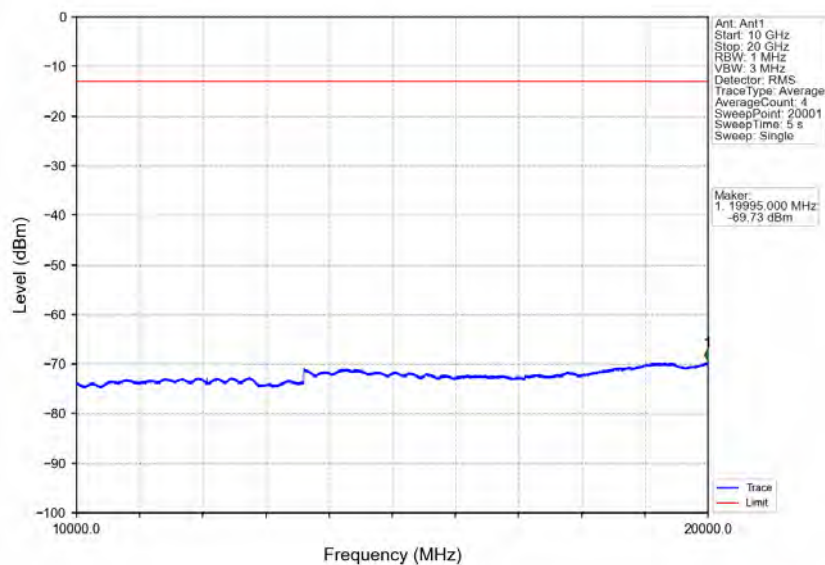
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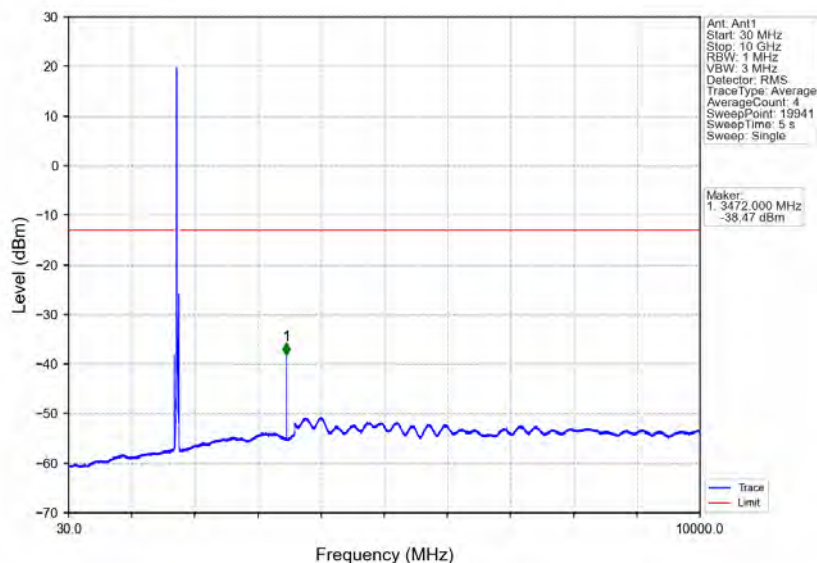
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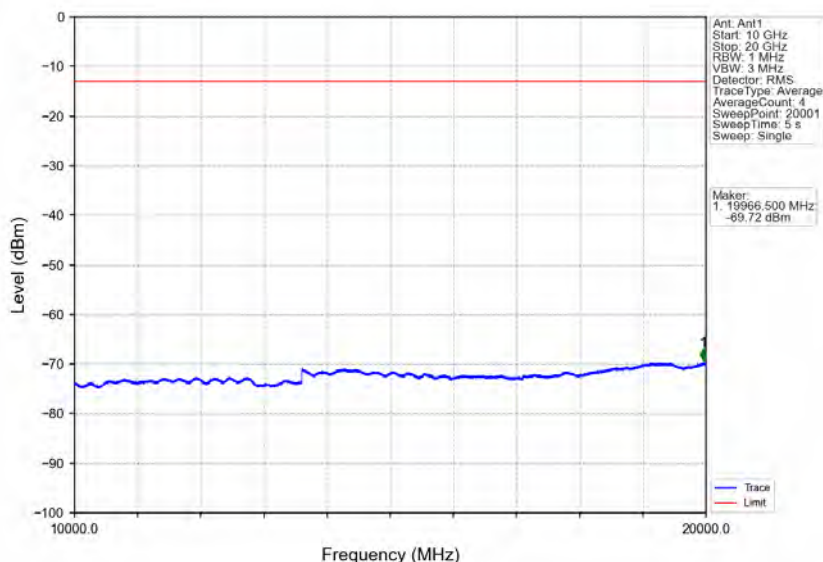
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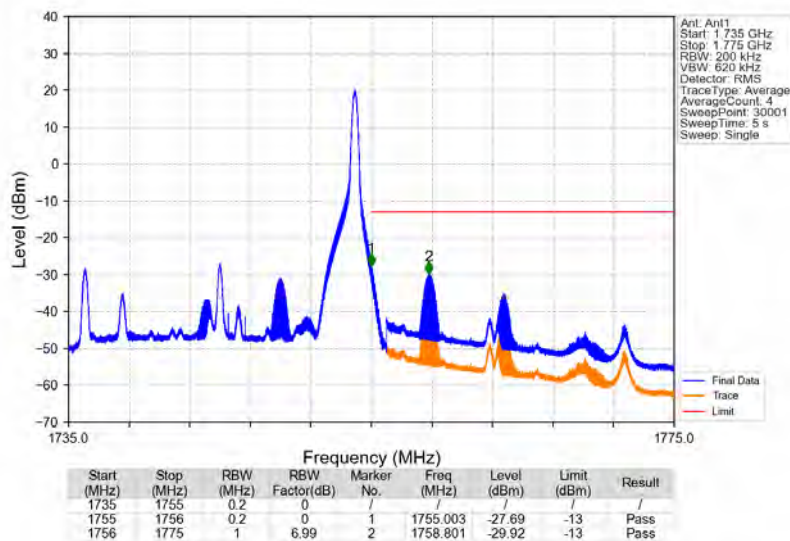
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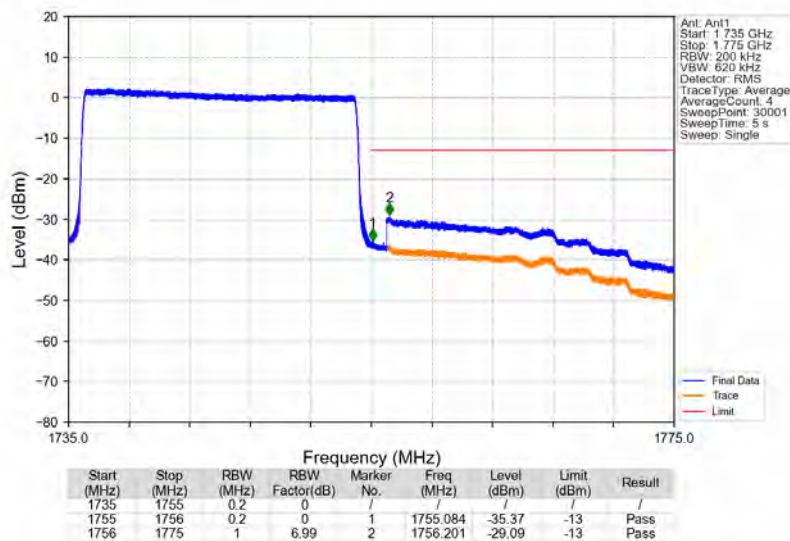
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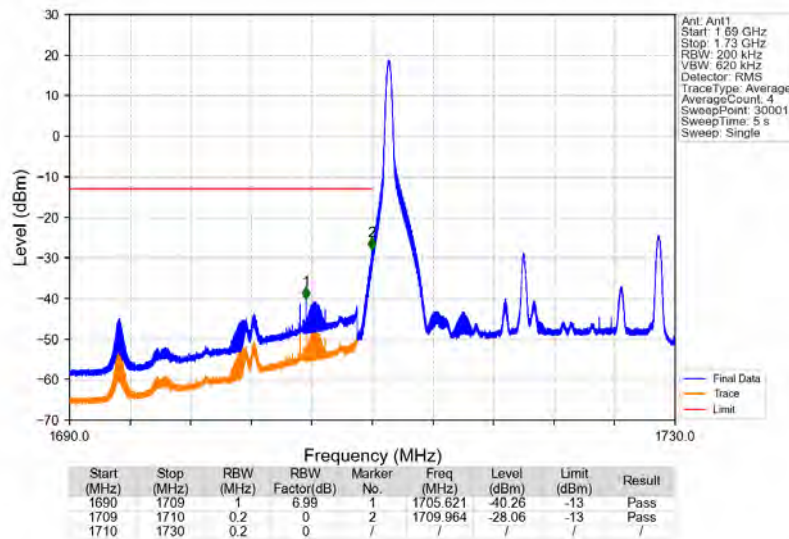
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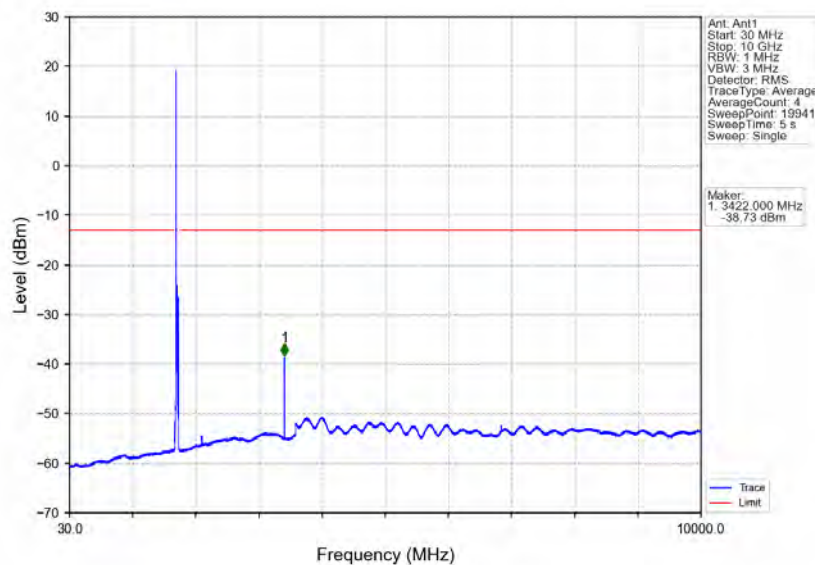
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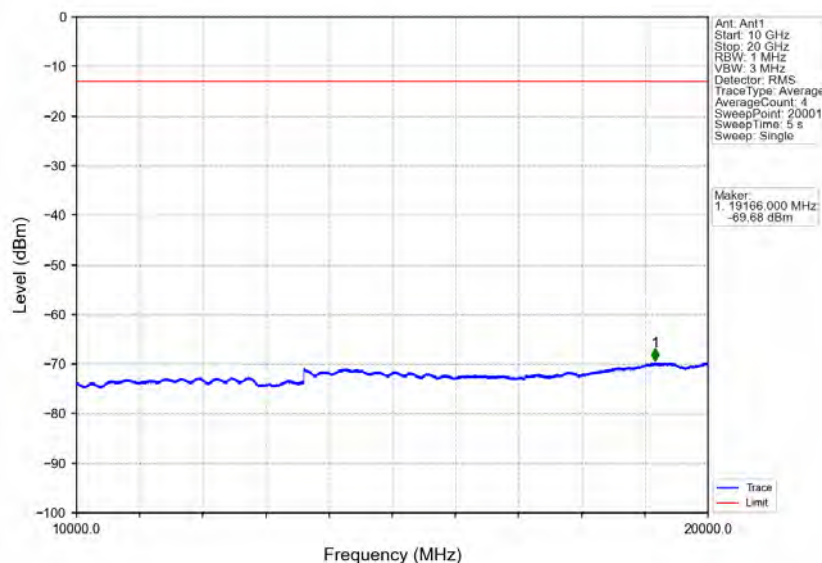
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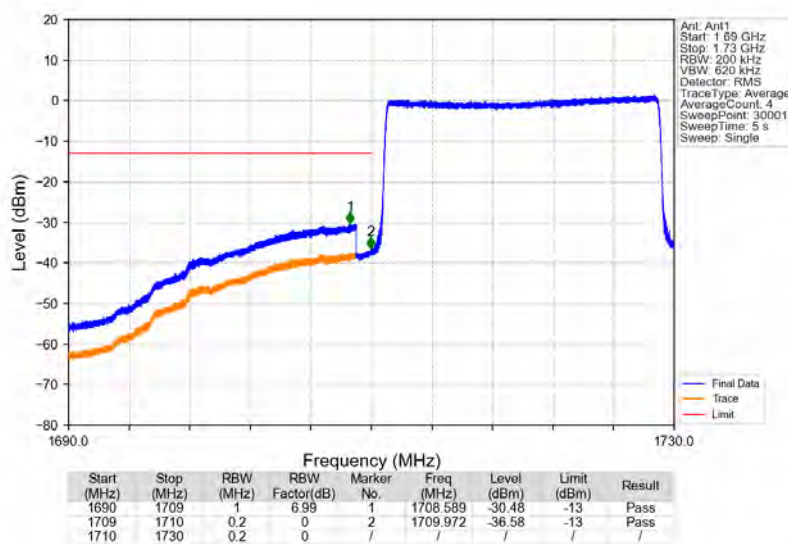
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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



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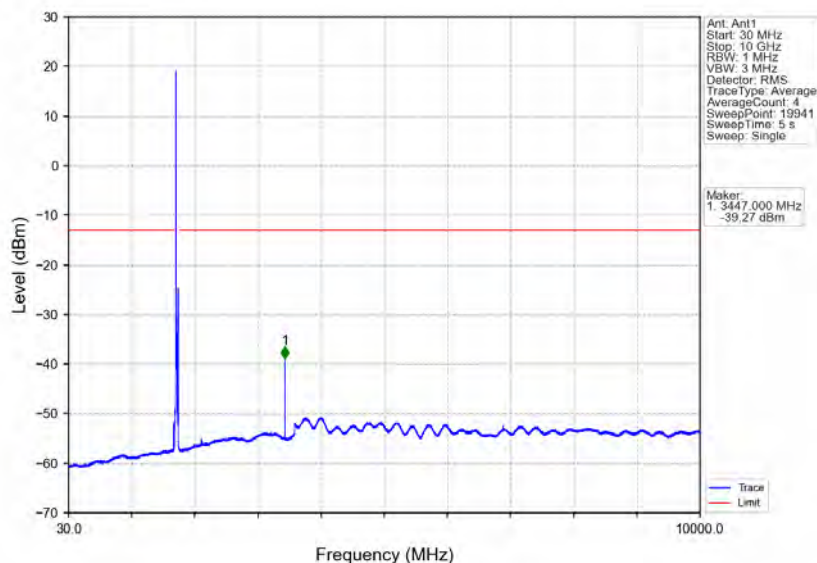
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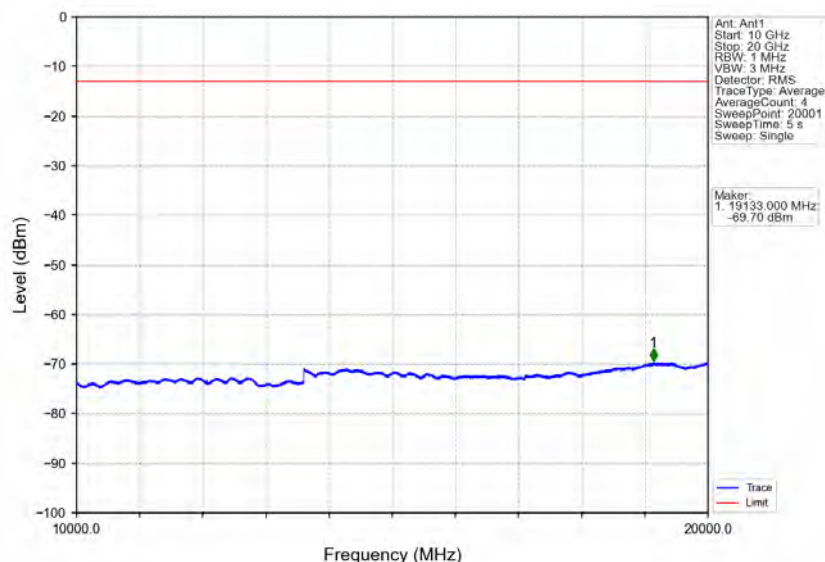
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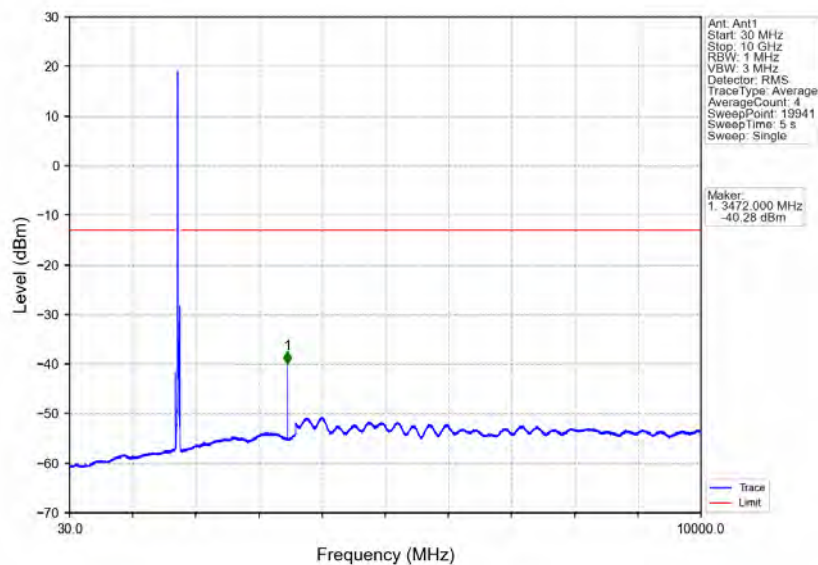
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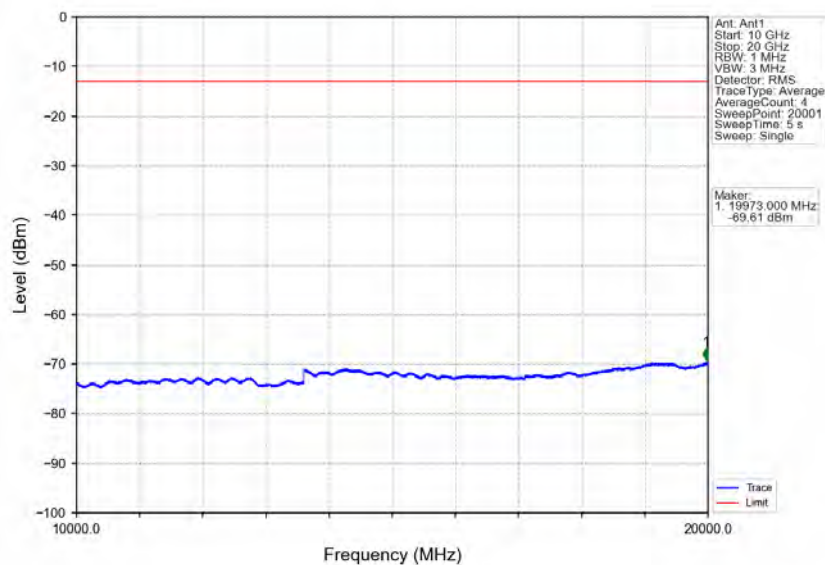
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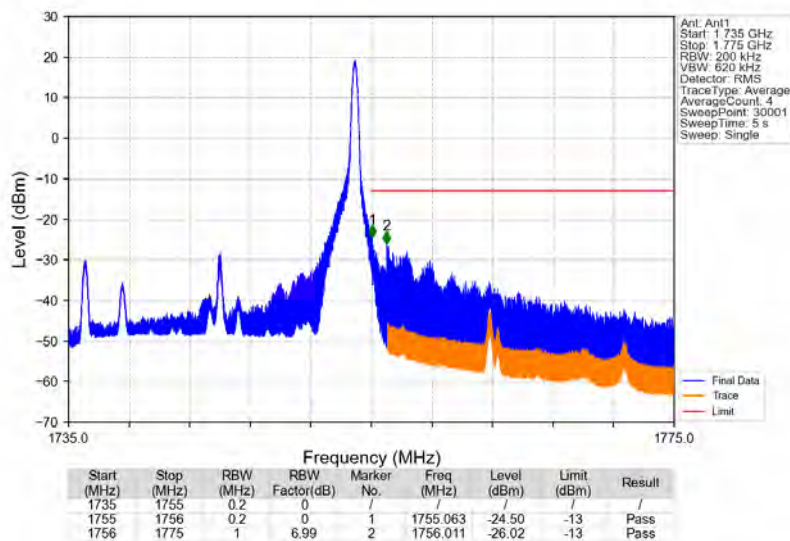
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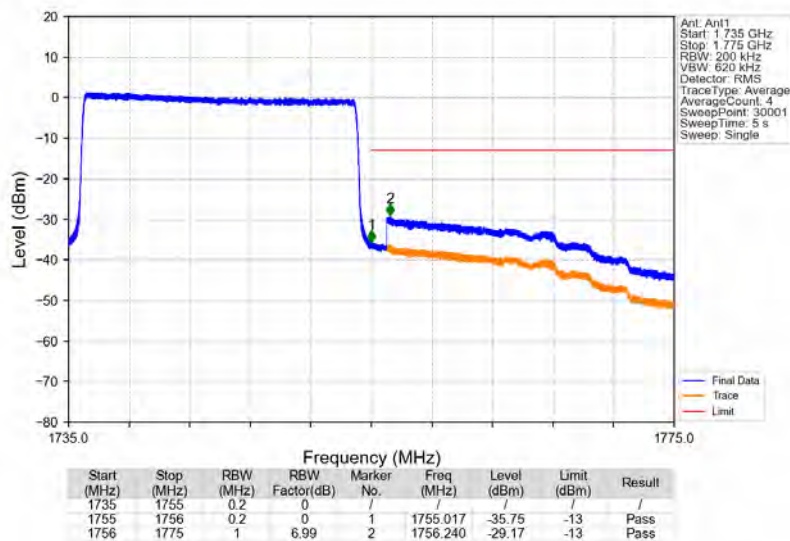
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