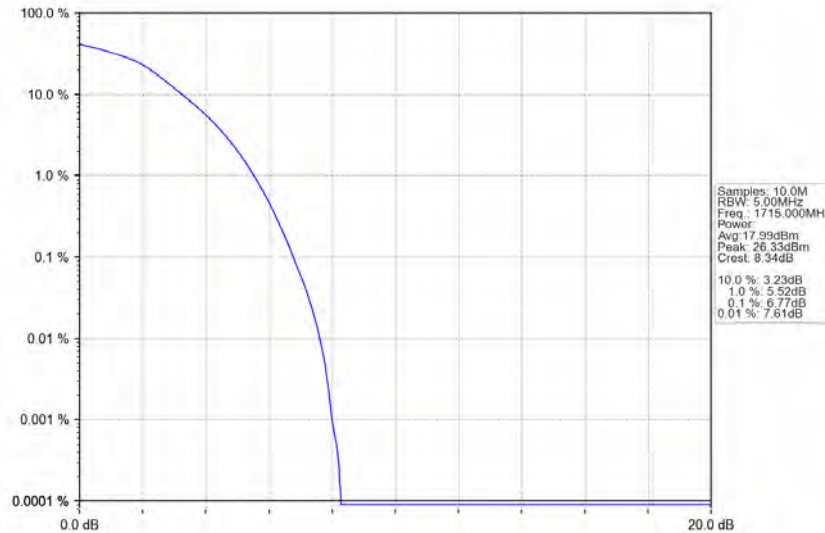
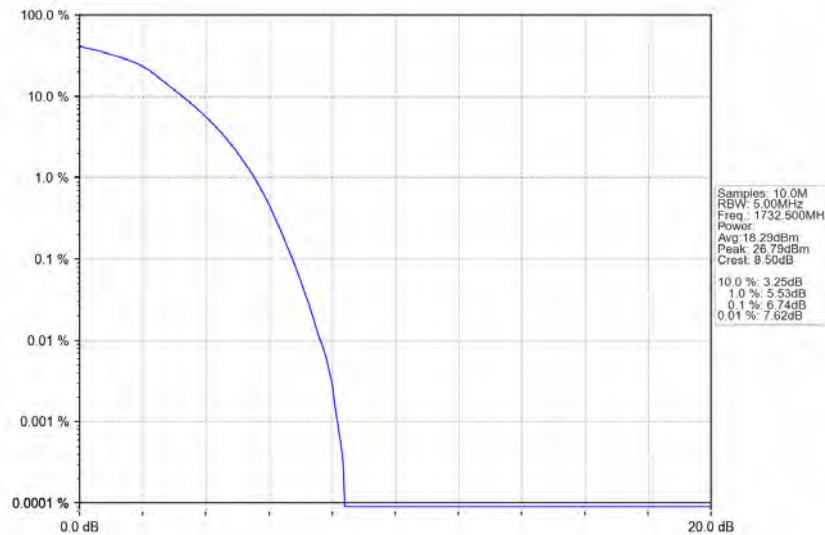


Band4_10MHz_64QAM_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV

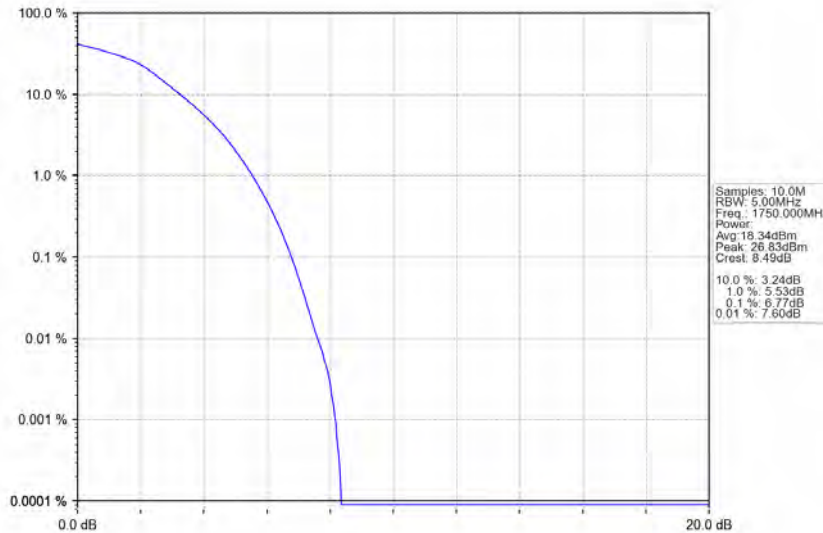


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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV



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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	6.34	<=13	Pass
	1732.5	75	0	6.32	<=13	Pass
	1747.5	75	0	6.33	<=13	Pass
16QAM	1717.5	75	0	7.10	<=13	Pass
	1732.5	75	0	8.75	<=13	Pass
	1747.5	75	0	7.24	<=13	Pass
64QAM	1717.5	75	0	7.25	<=13	Pass
	1732.5	75	0	7.24	<=13	Pass
	1747.5	75	0	7.21	<=13	Pass



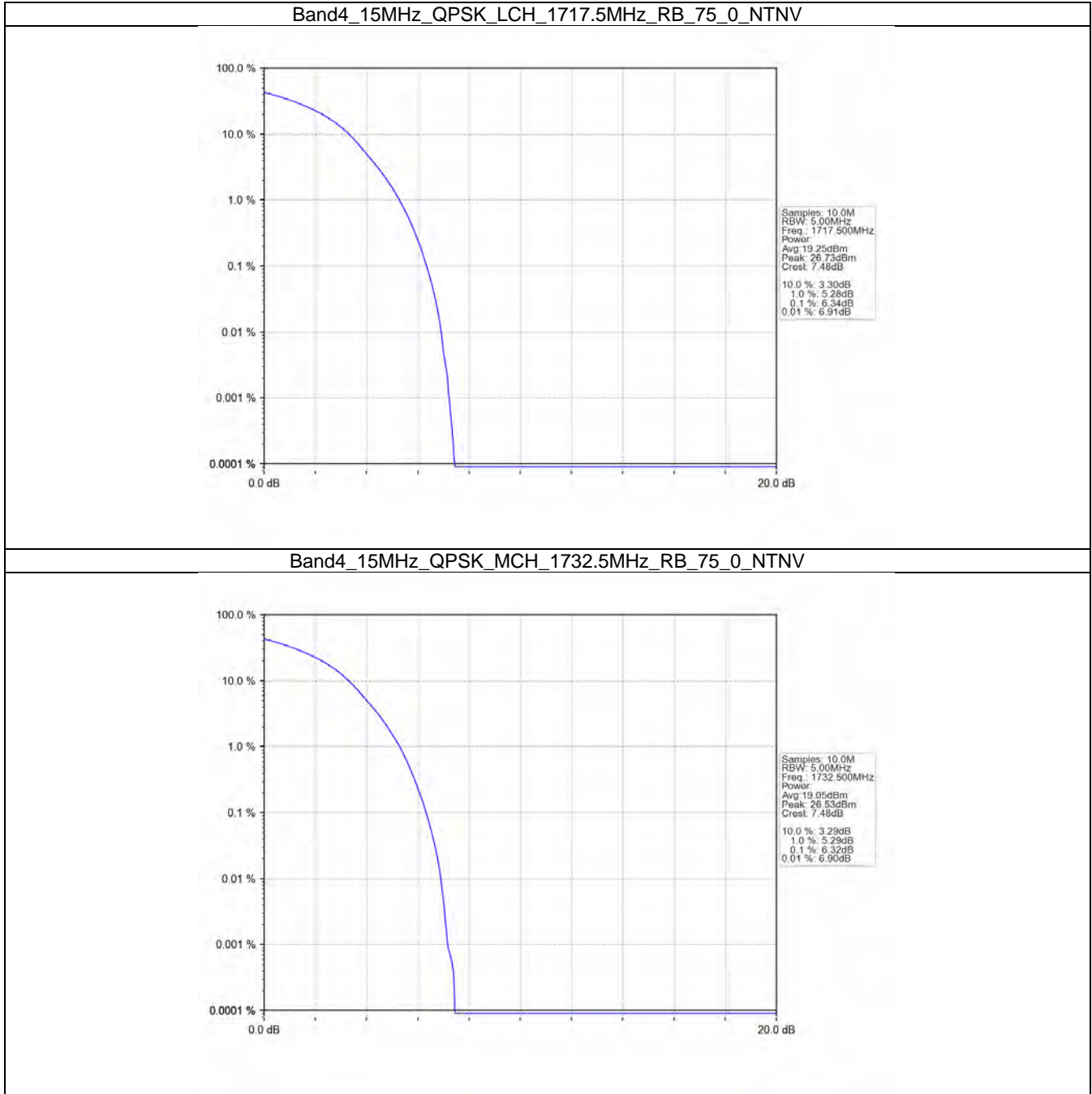
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5.5.2 Test Graph



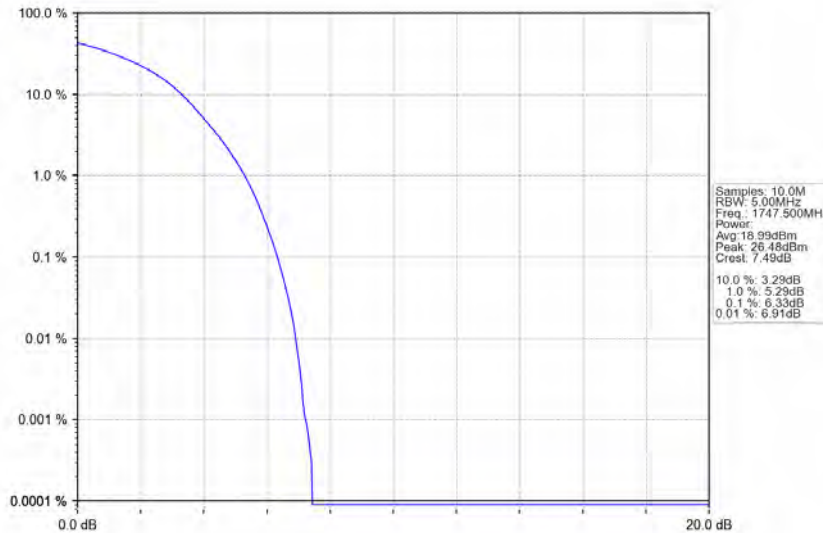
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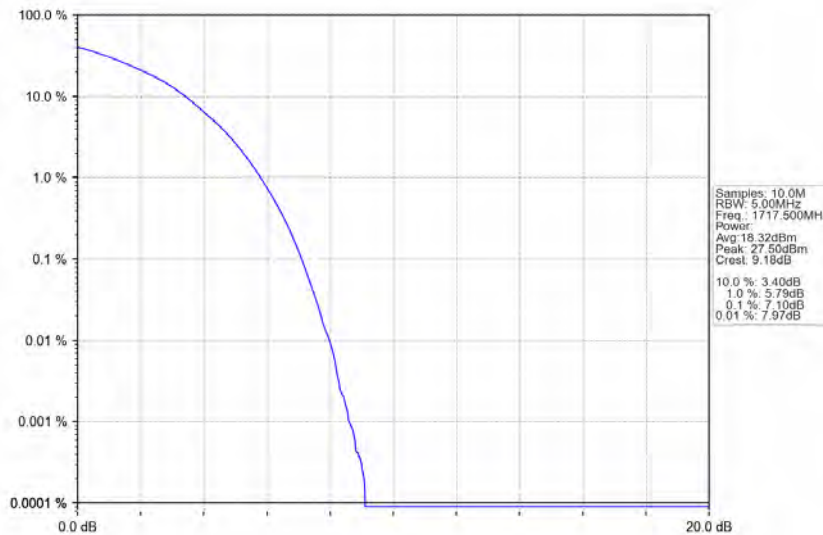
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 EMC Laboratory

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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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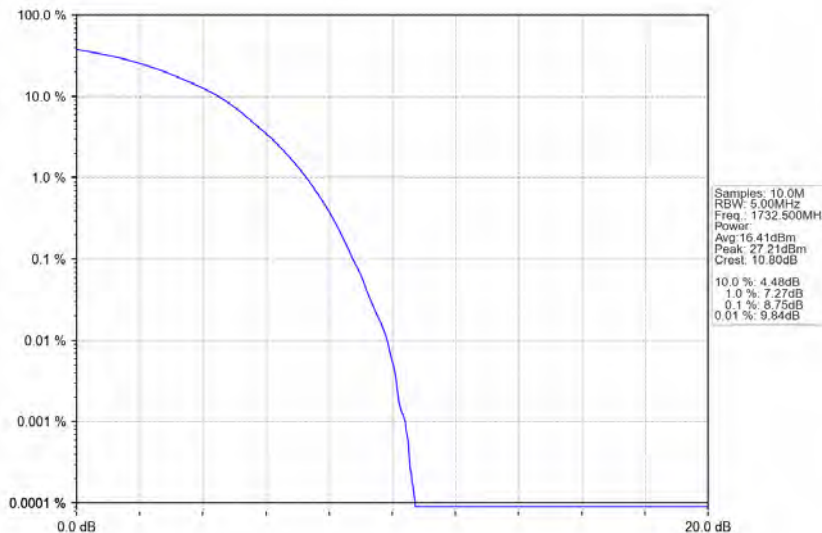
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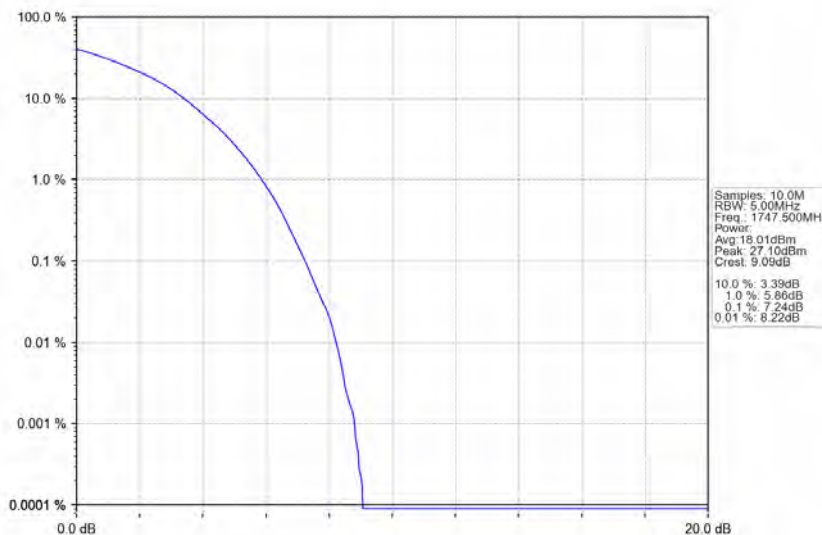
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



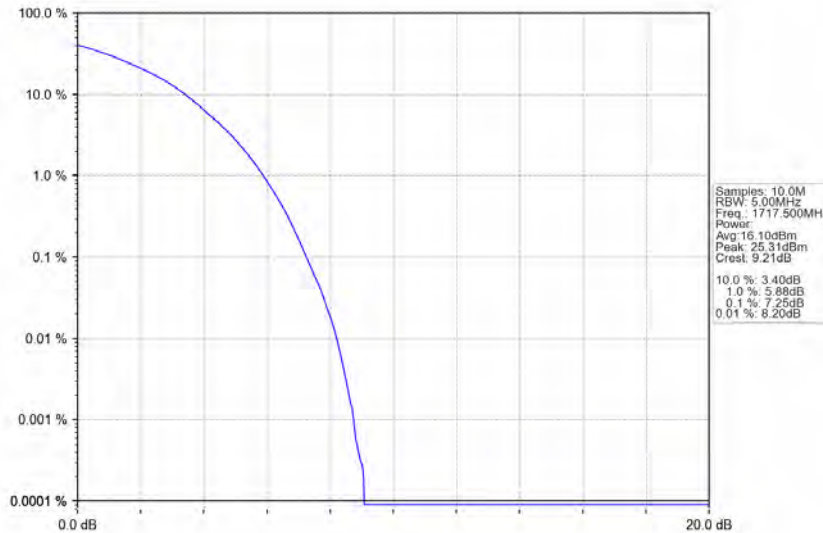
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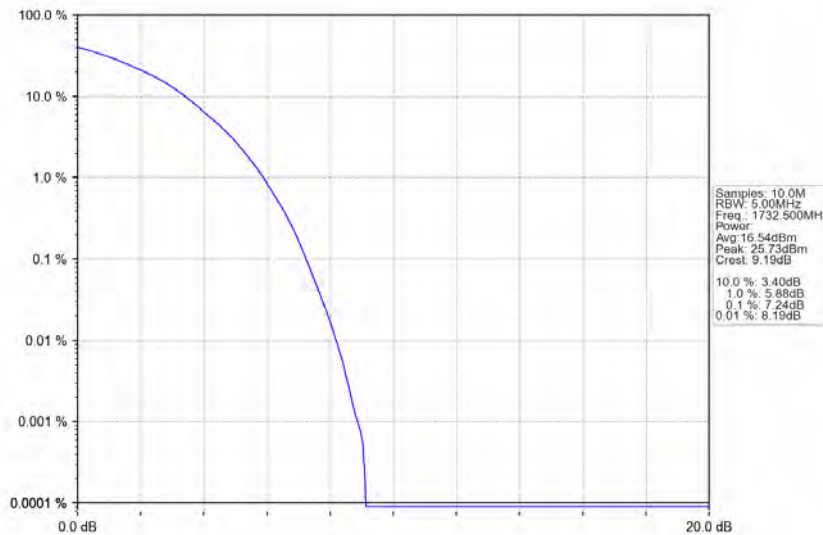
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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



Band4_15MHz_64QAM_MCH_1732.5MHz_RB_75_0_NTNV



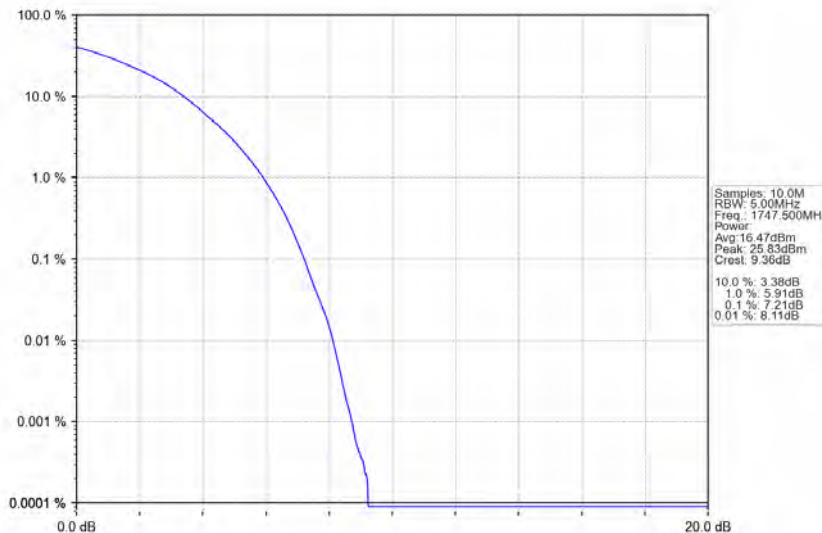
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5.6 B4_20MHz

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	6.83	<=13	Pass
	1745	100	0	6.81	<=13	Pass
16QAM	1720	100	0	7.51	<=13	Pass
	1732.5	100	0	7.51	<=13	Pass
	1745	100	0	7.46	<=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

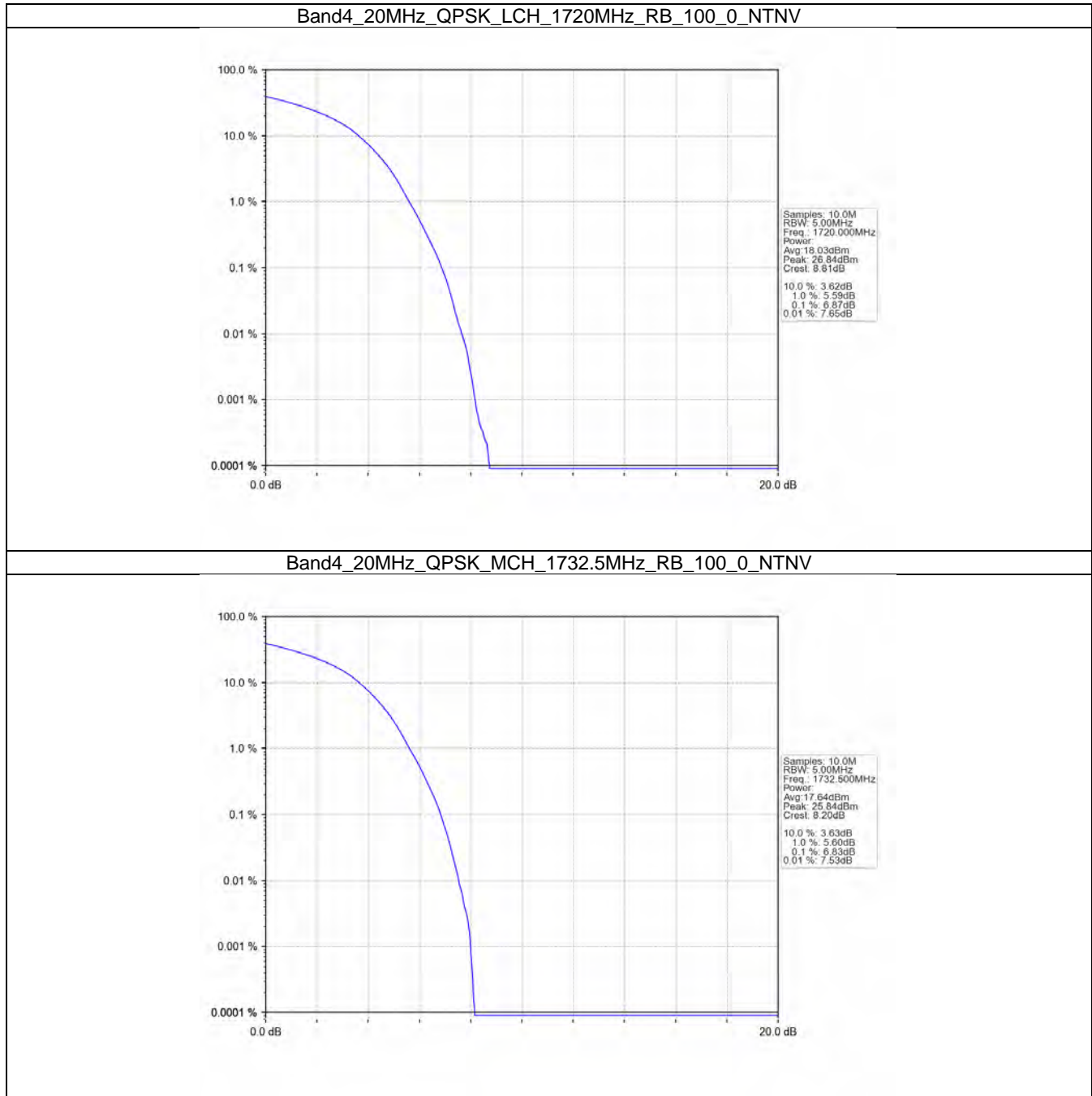


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5.6.2 Test Graph



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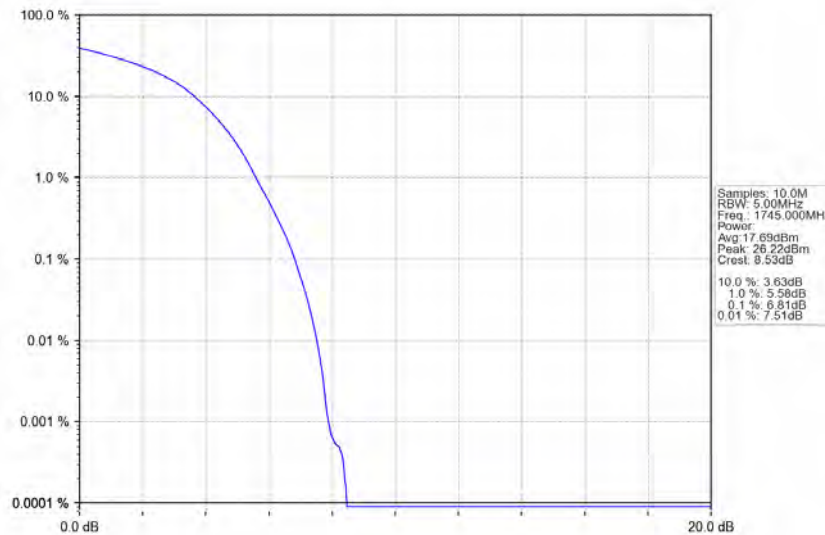
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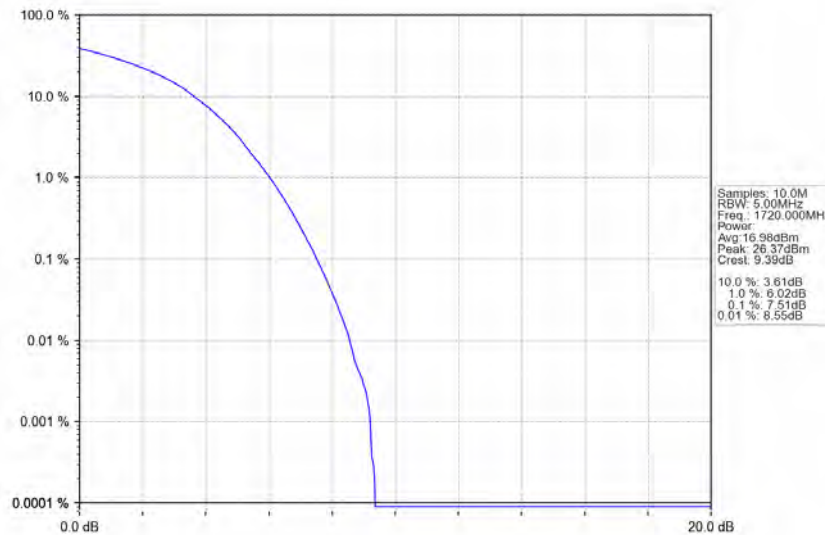
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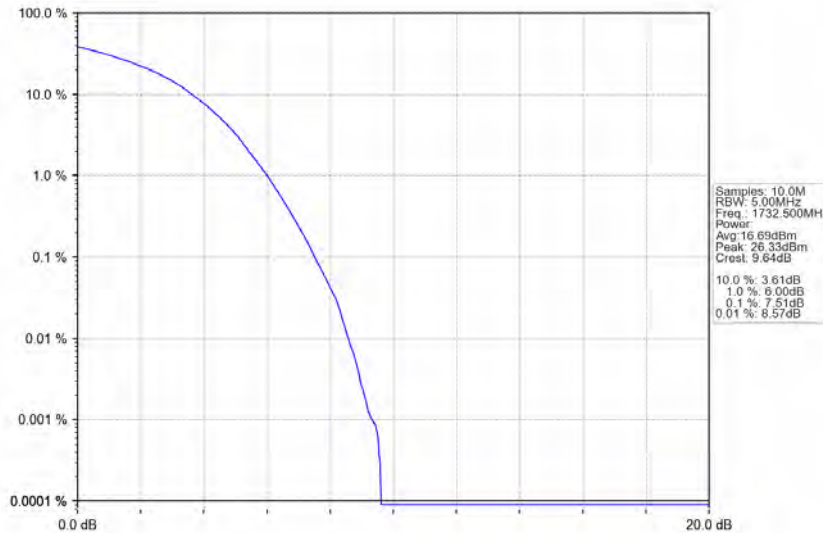
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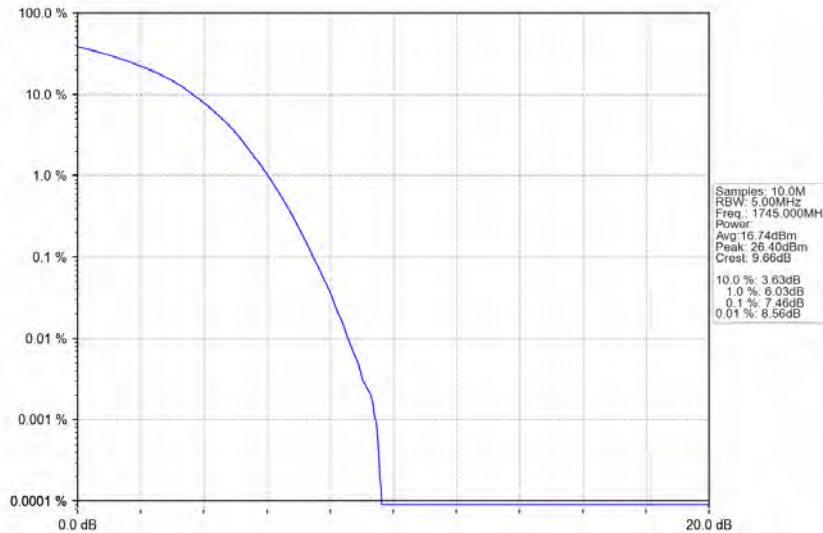
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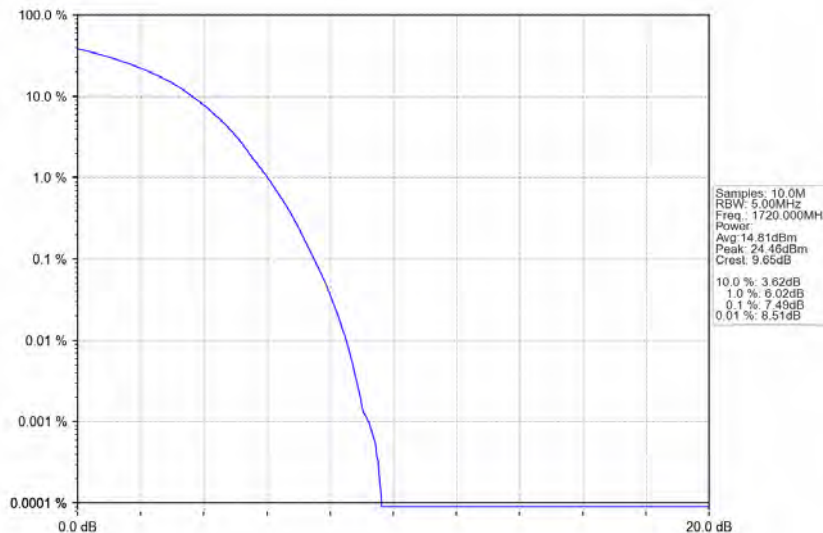
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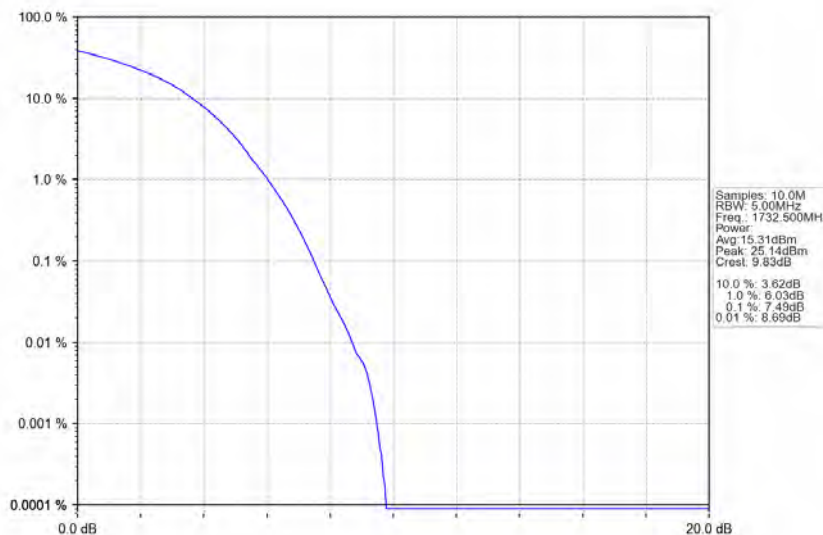
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Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV

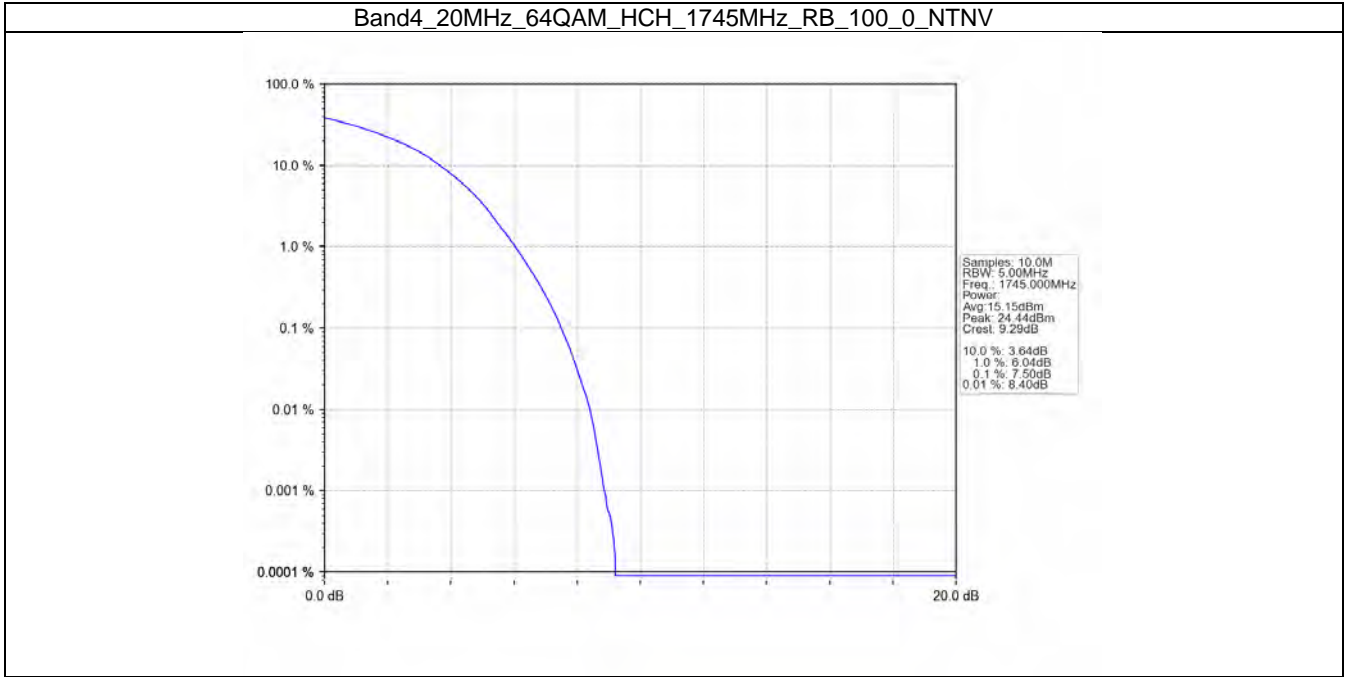


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6. Spurious Emission

6.1 B4_1.4MHz

6.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / 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	
		1754.3	1	0	Refer To Test Graph		Pass
			6	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass	
16QAM	1710.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1754.3	1	0	Refer To Test Graph		Pass
			6	5	Refer To Test Graph		Pass
		6	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	
		1754.3	1	0	Refer To Test Graph		Pass
			6	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass	



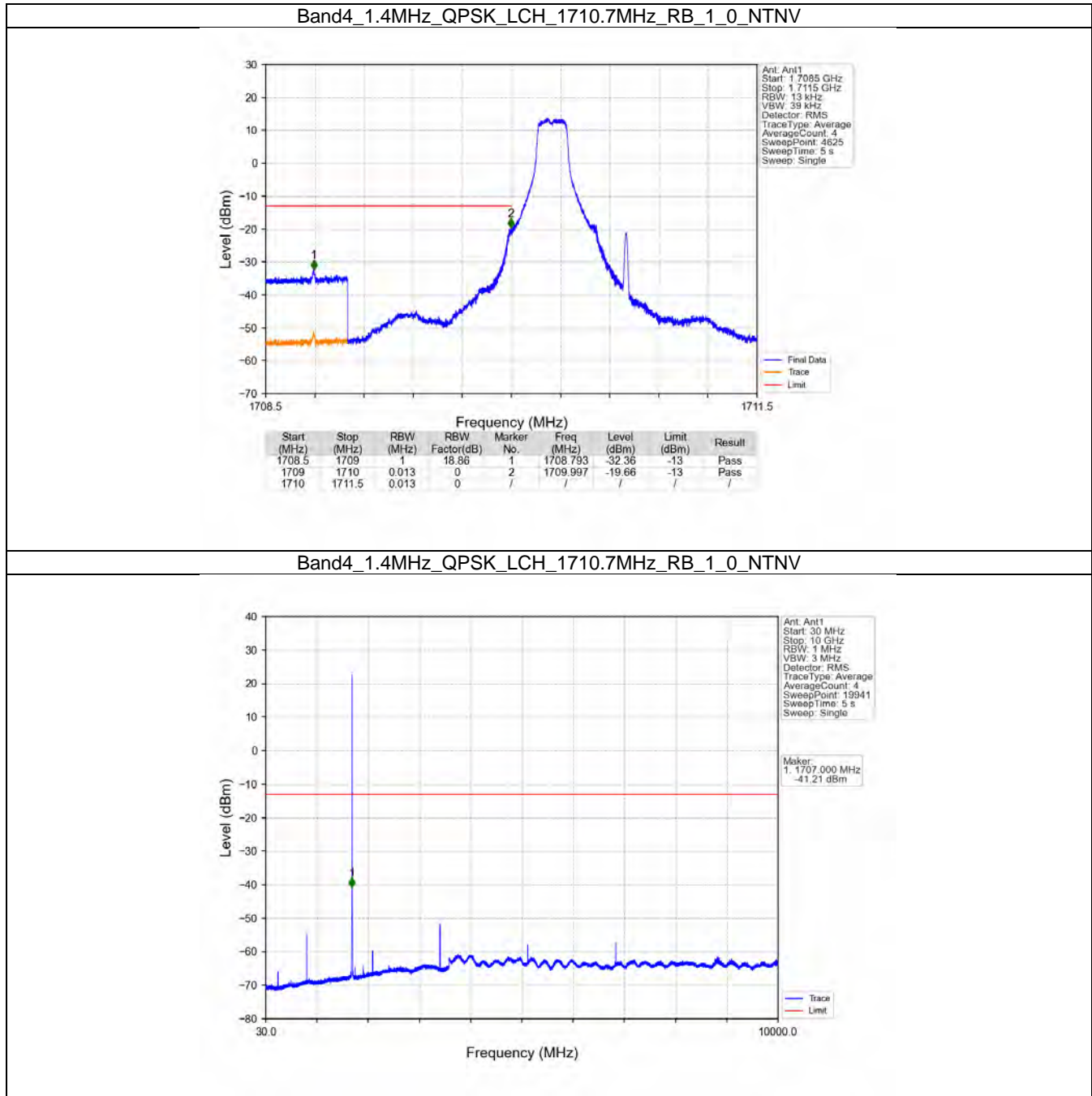
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6.1.2 Test Graph



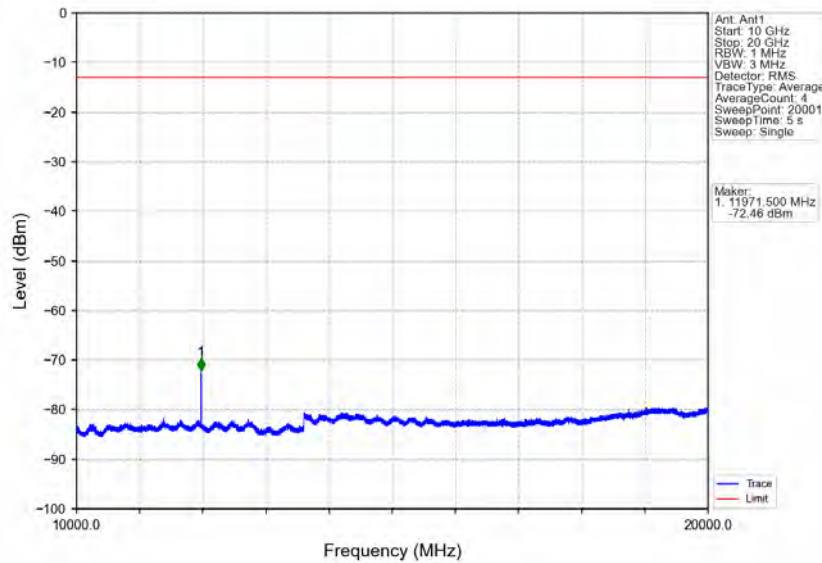
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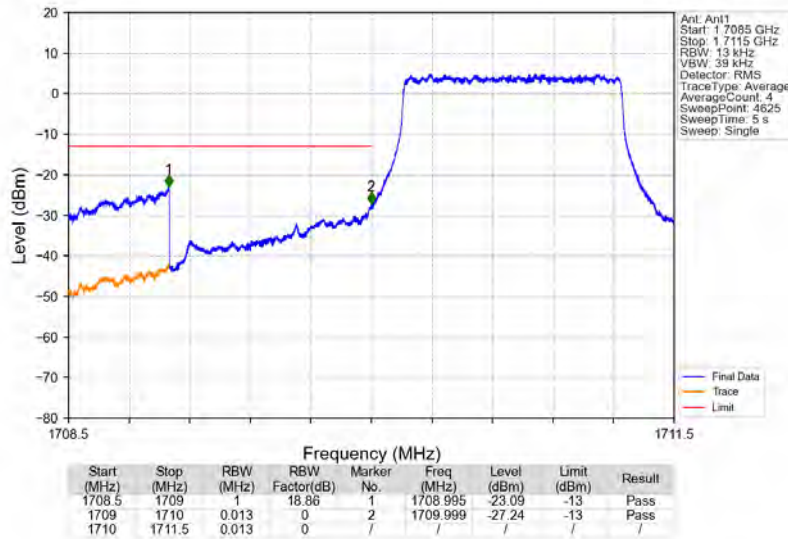
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



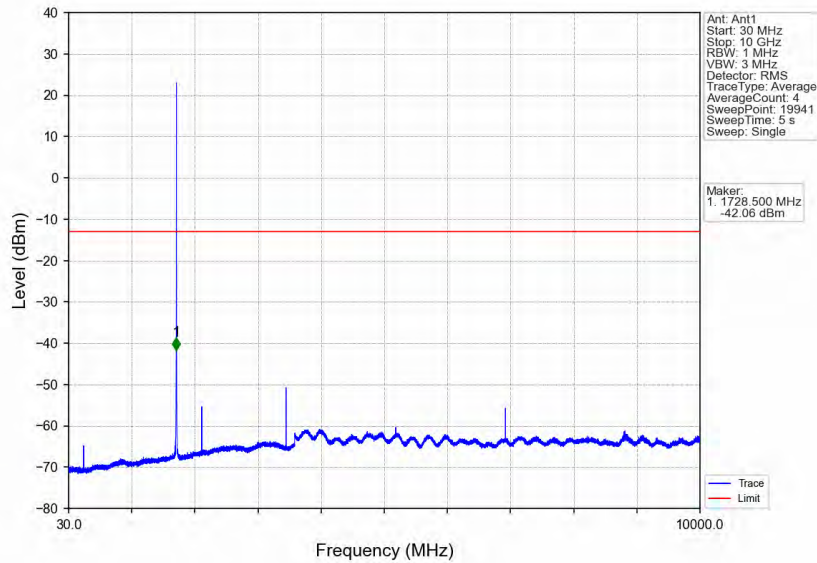
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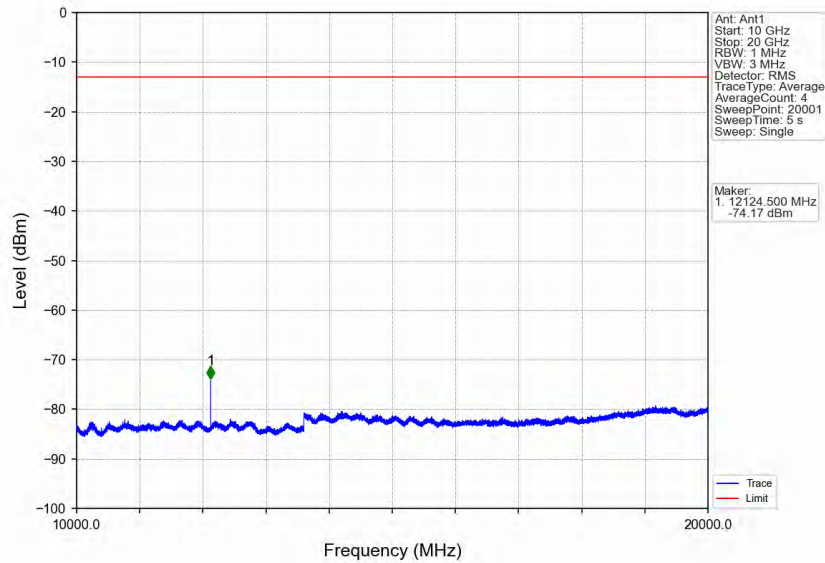
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



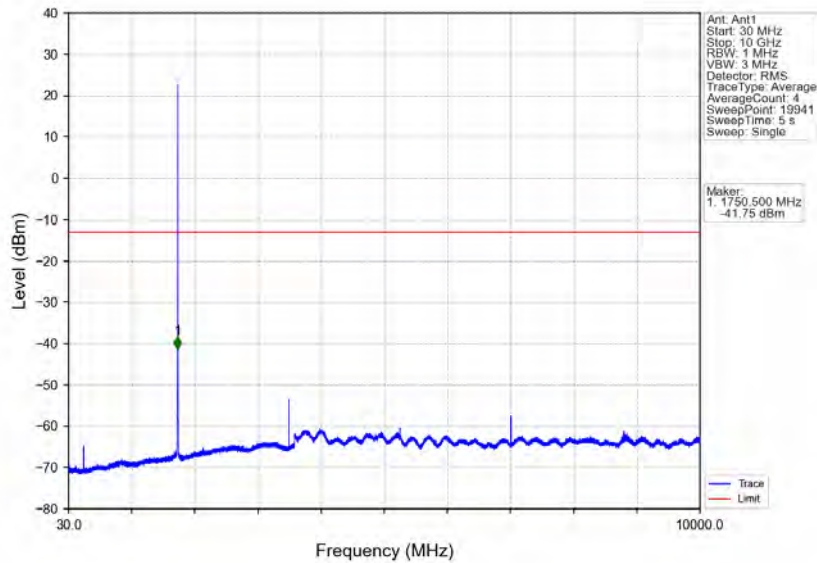
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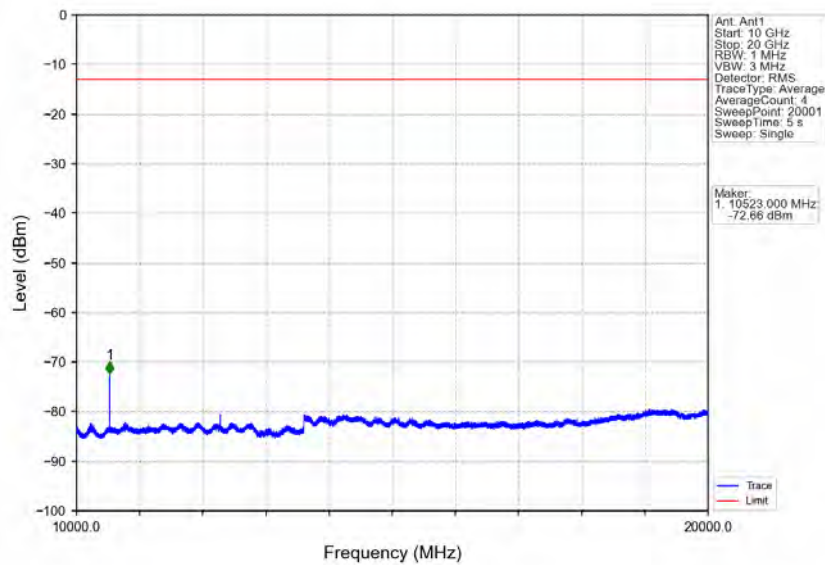
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_0_NTV



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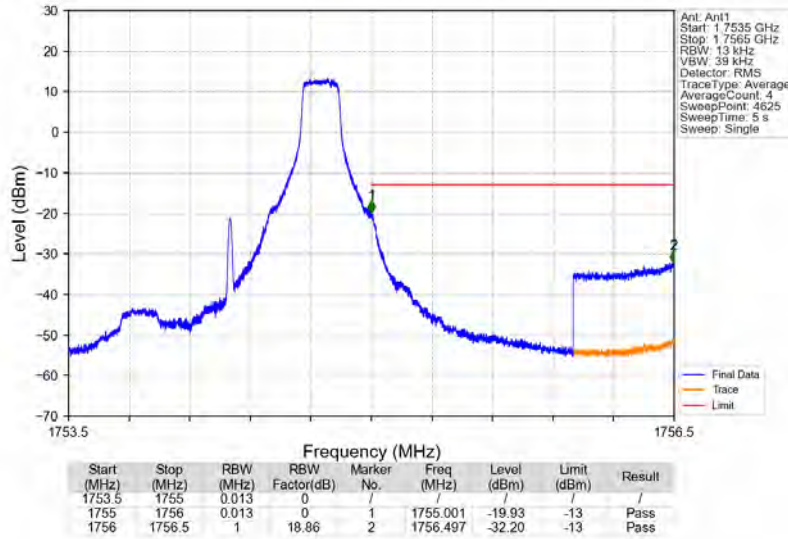
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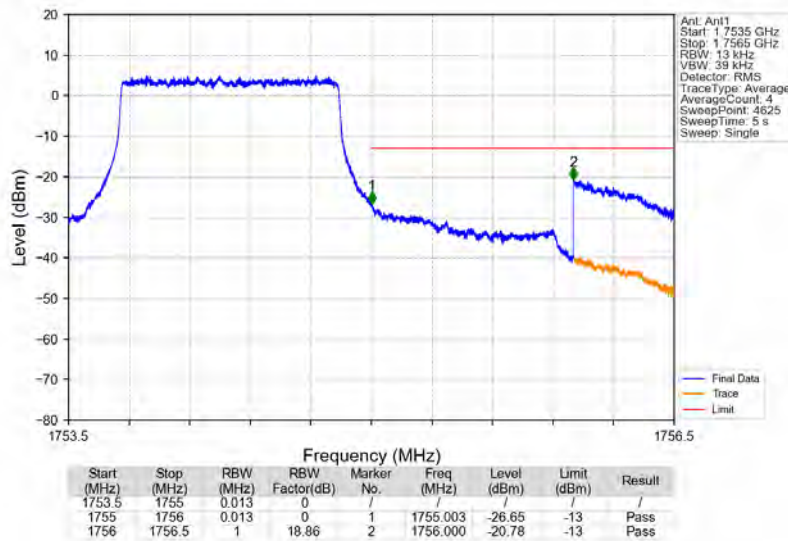
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_1_5_NTV



Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTV



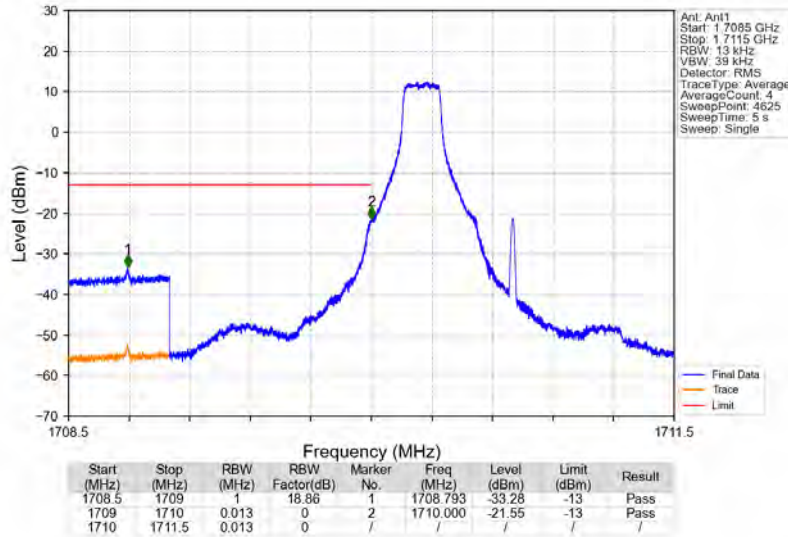
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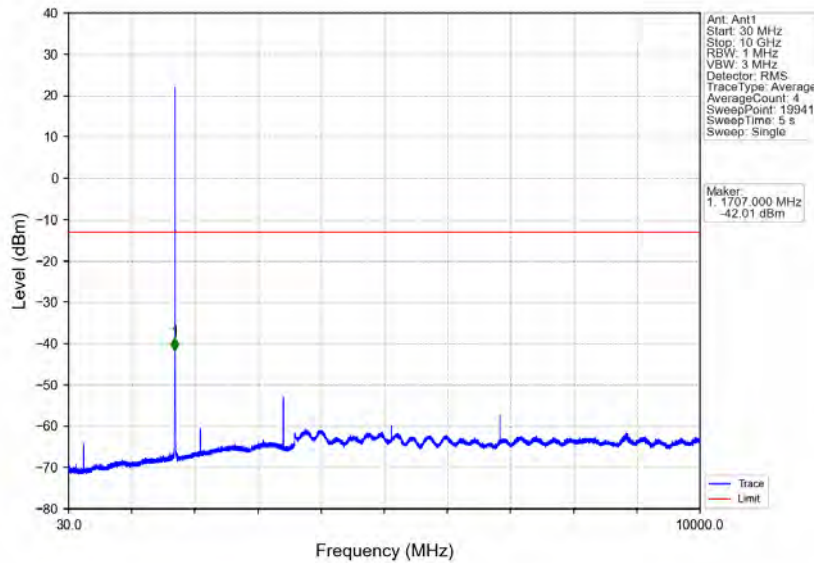
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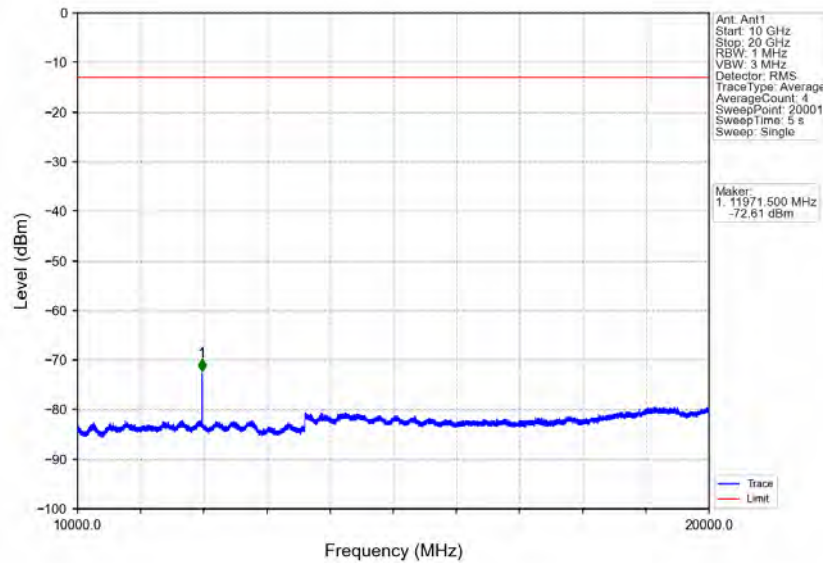
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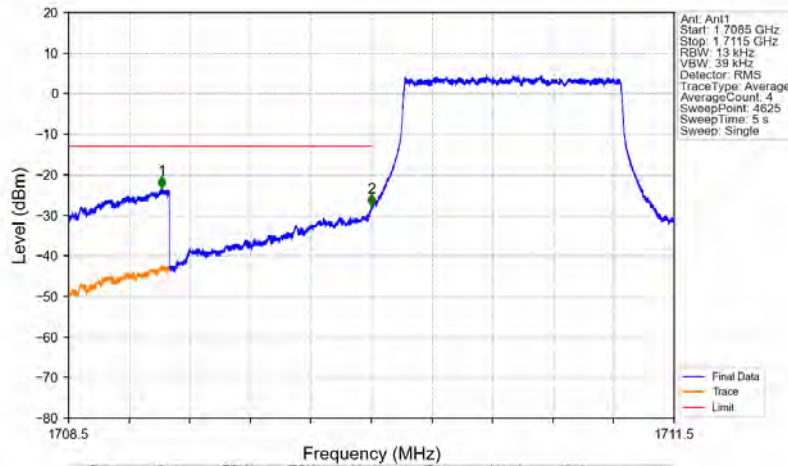


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	16.86	1	1708.962	-23.39	-13	Pass
1709	1710	0.013	0	2	1709.999	-27.78	-13	Pass
1710	1711.5	0.013	0	/	/	/	/	/



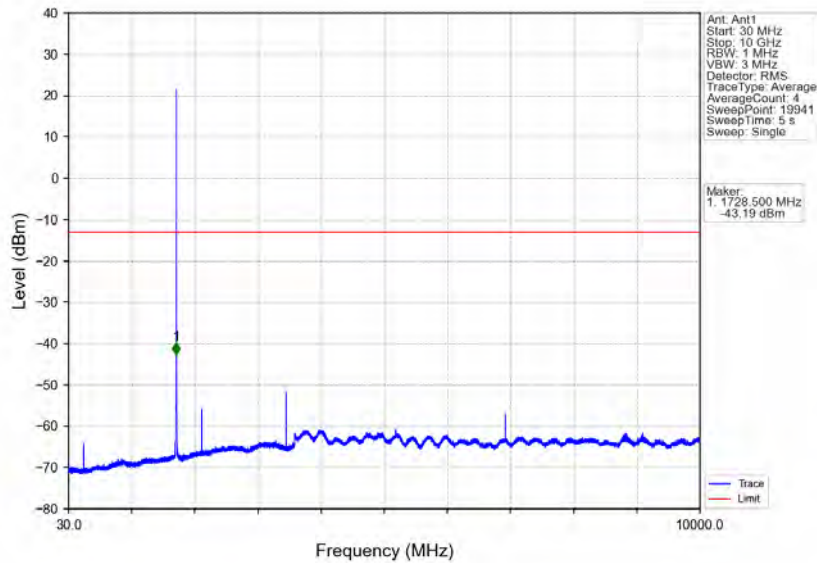
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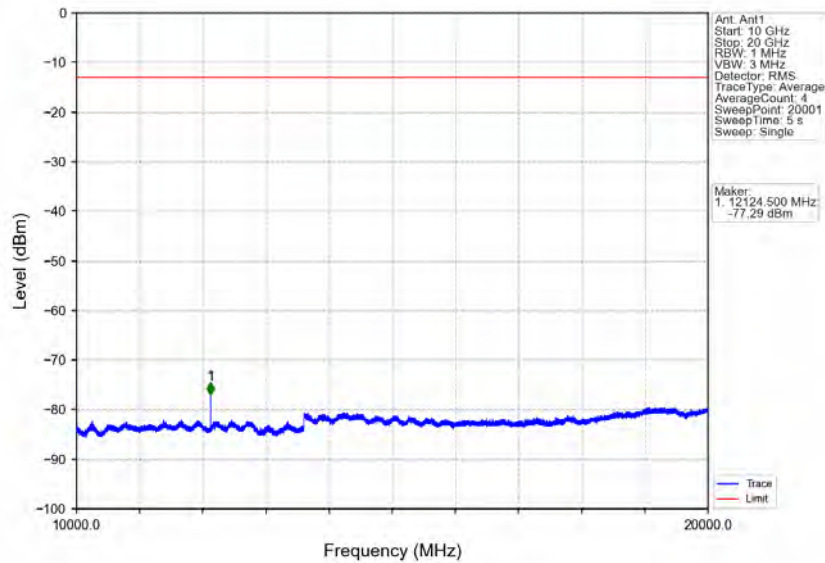
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



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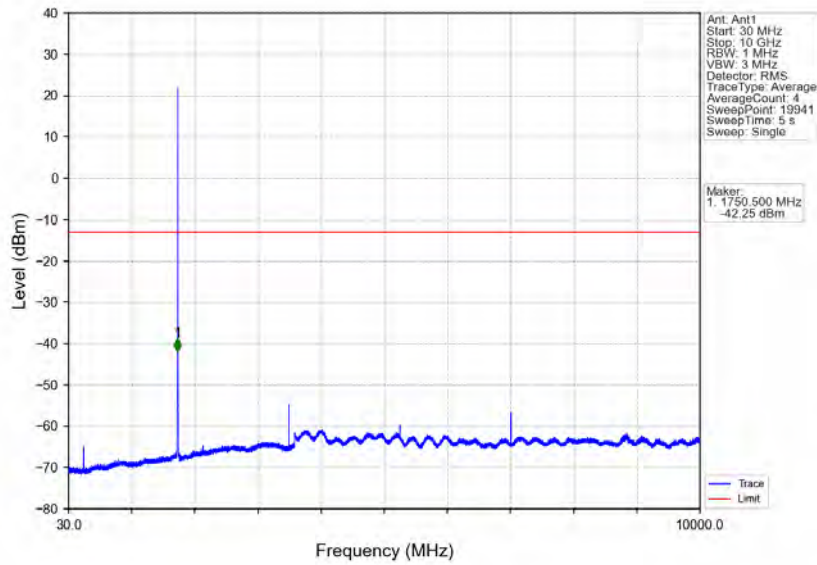
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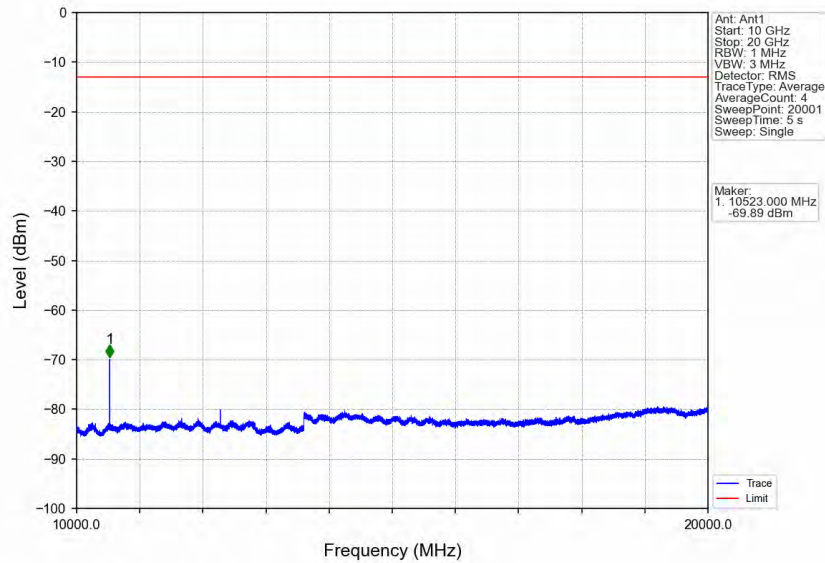


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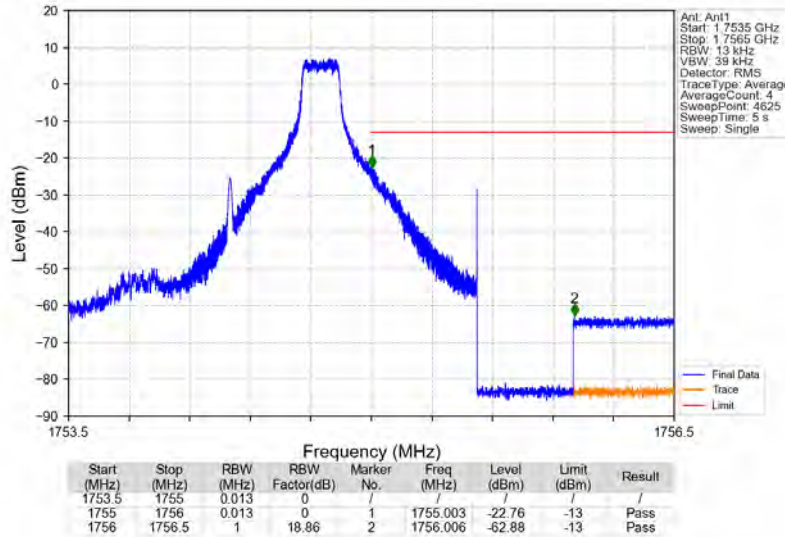
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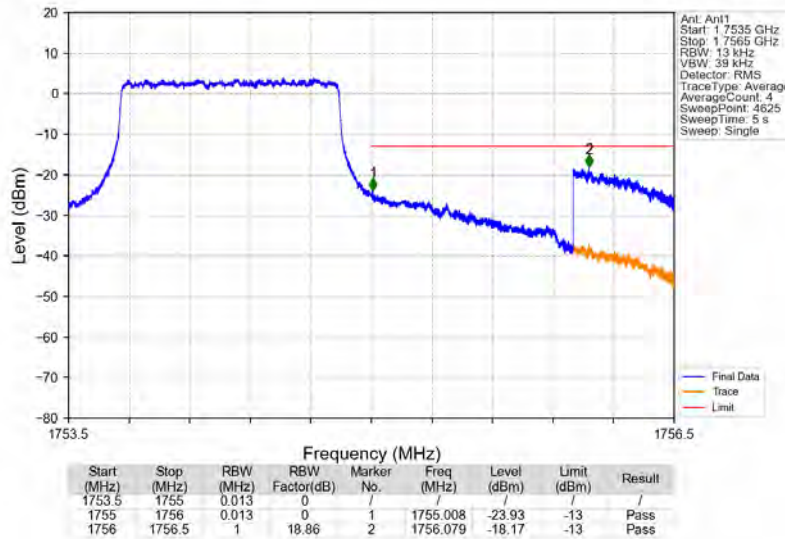


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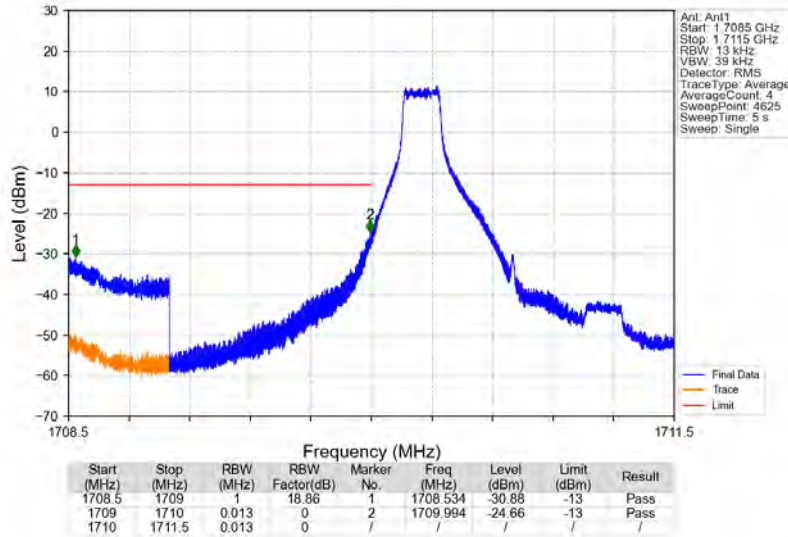
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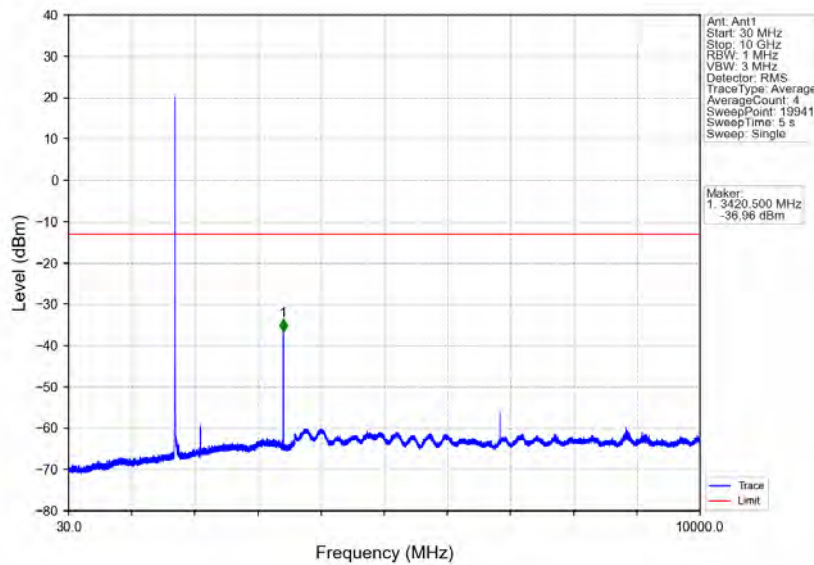
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_1_0_NTNV



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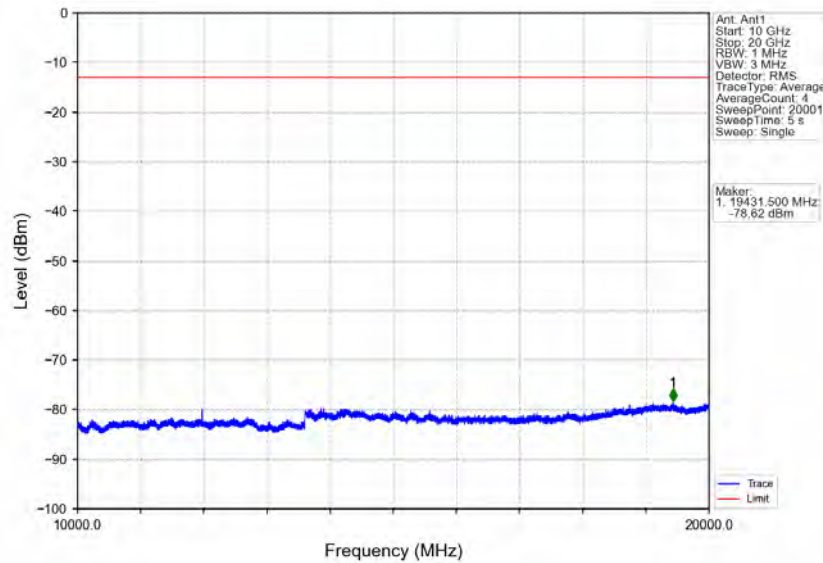
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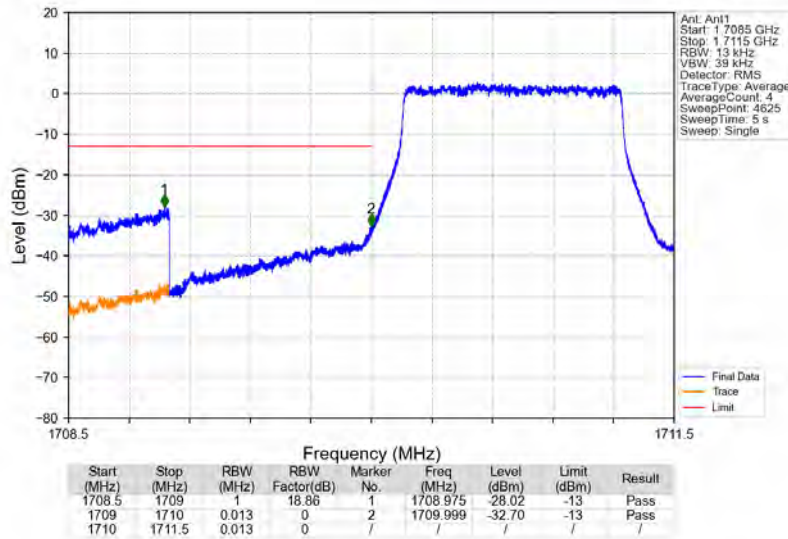


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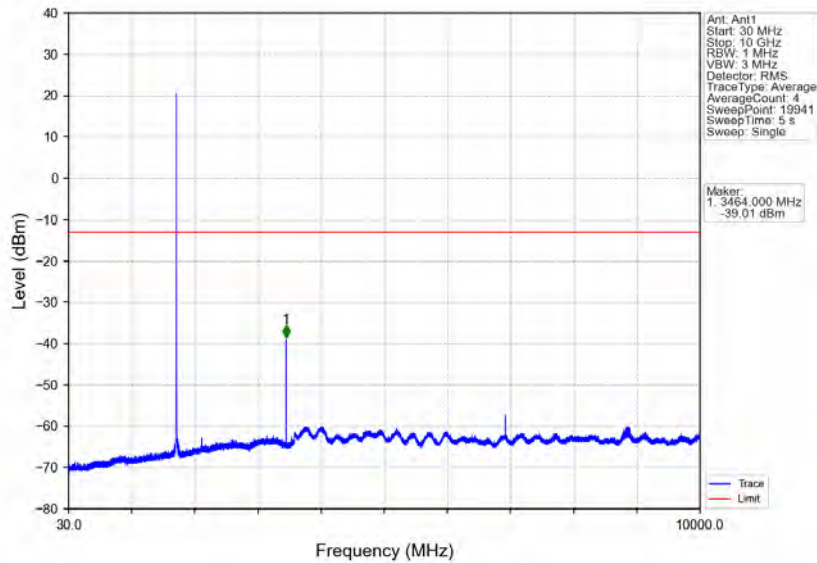
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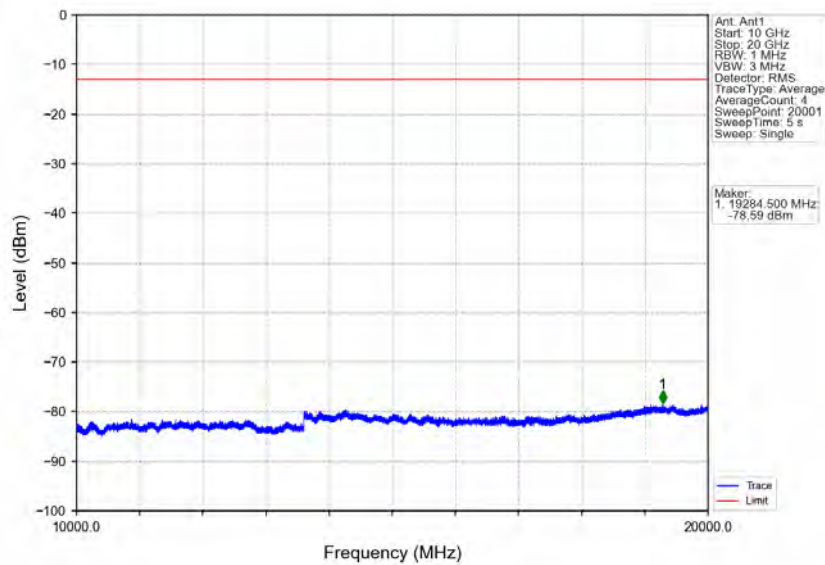
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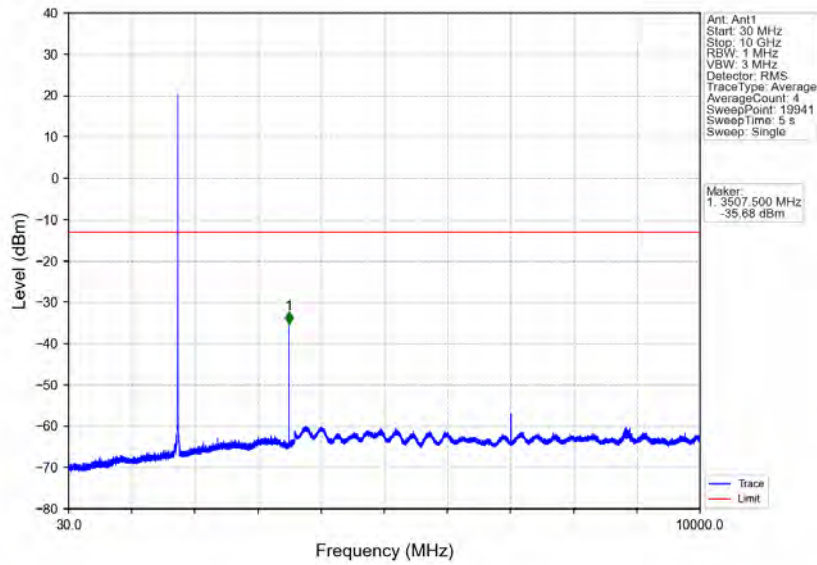
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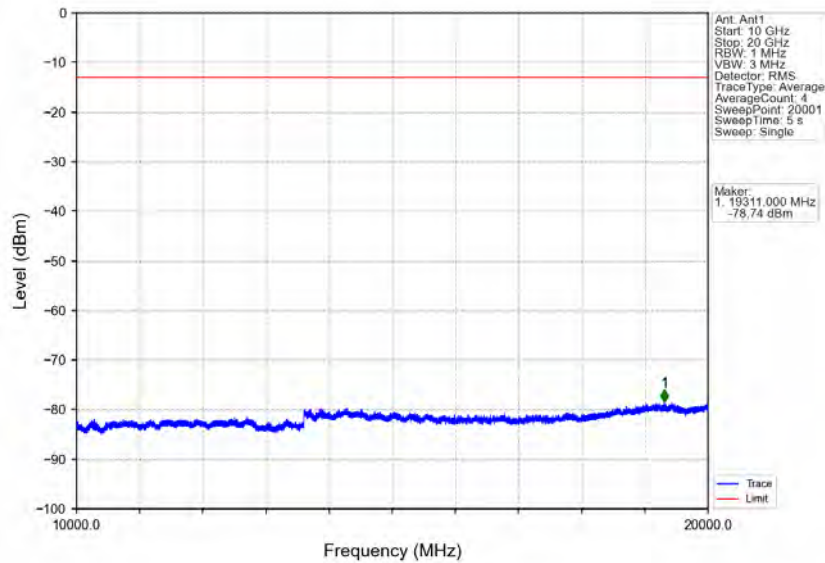
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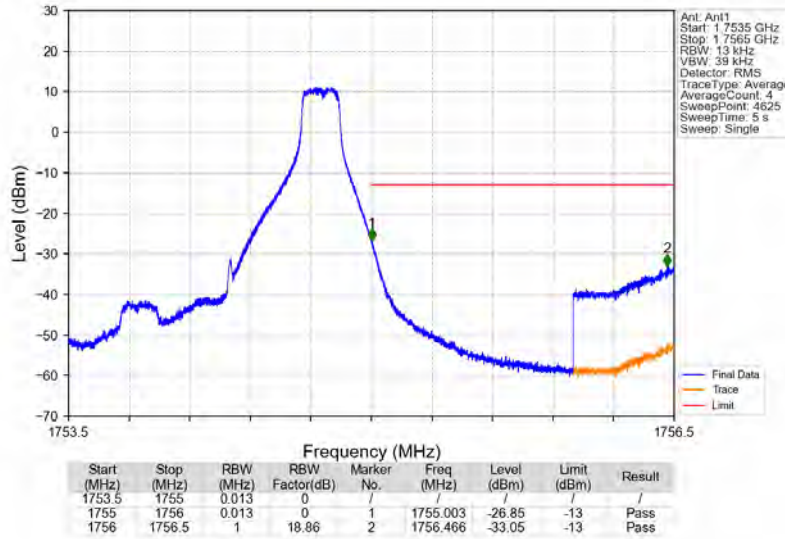
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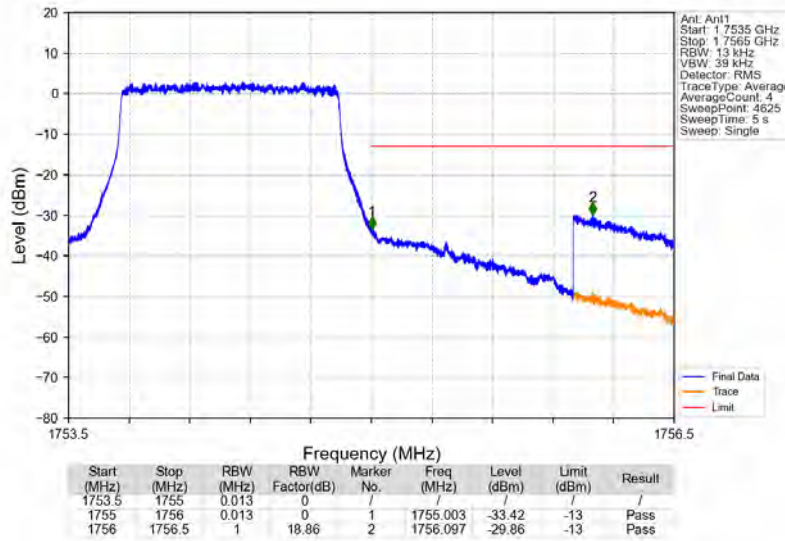
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6.2 B4_3MHz

6.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Fail
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		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
		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
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass



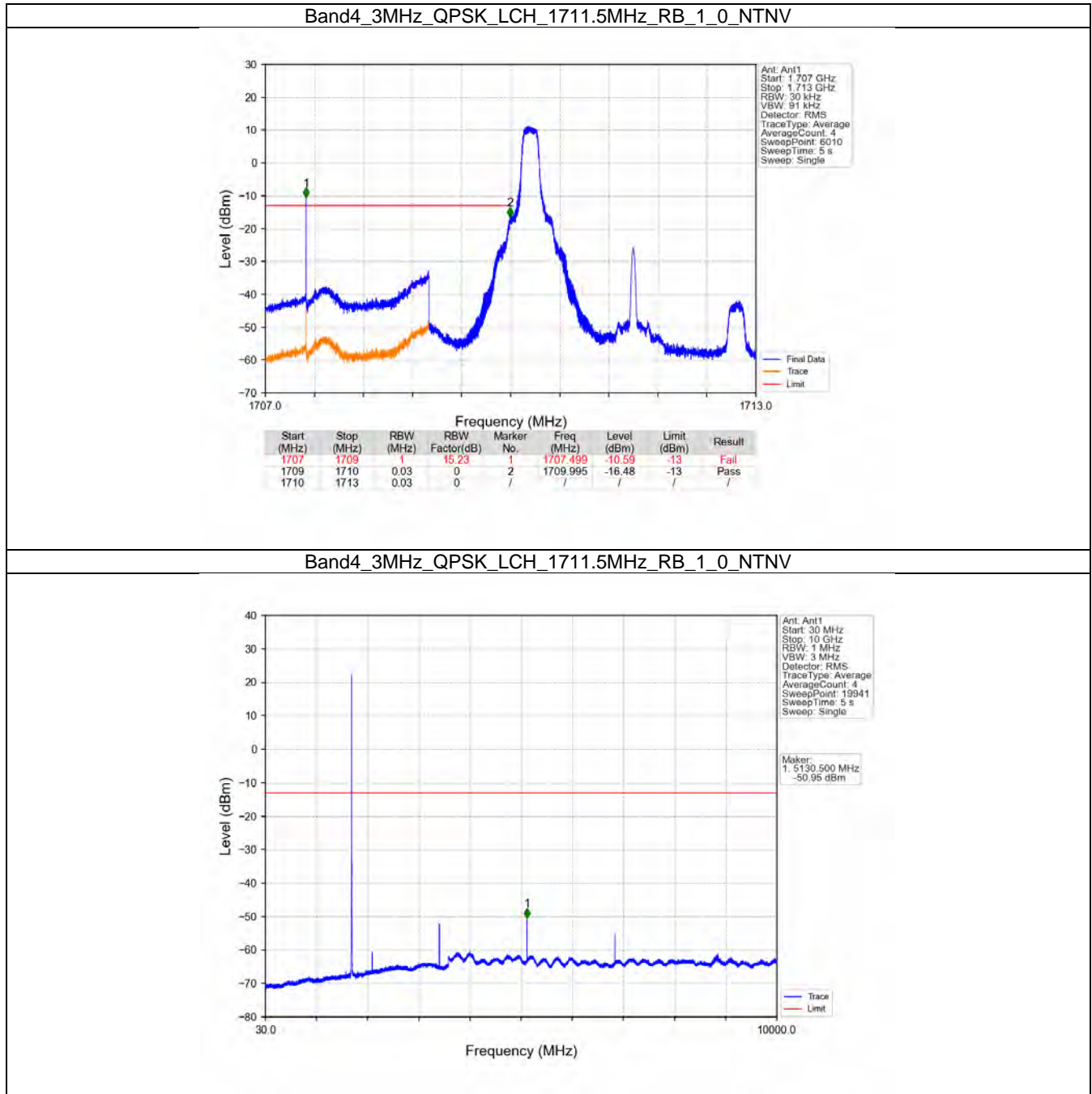
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6.2.2 Test Graph



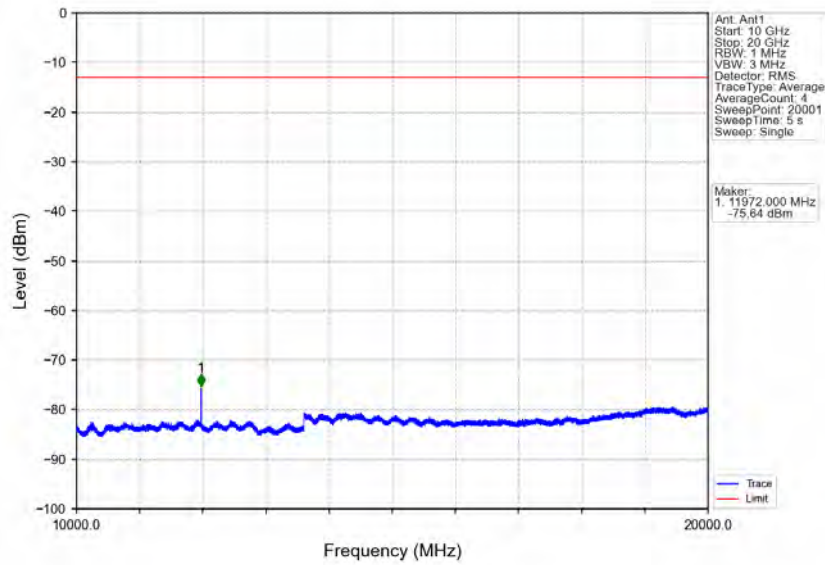
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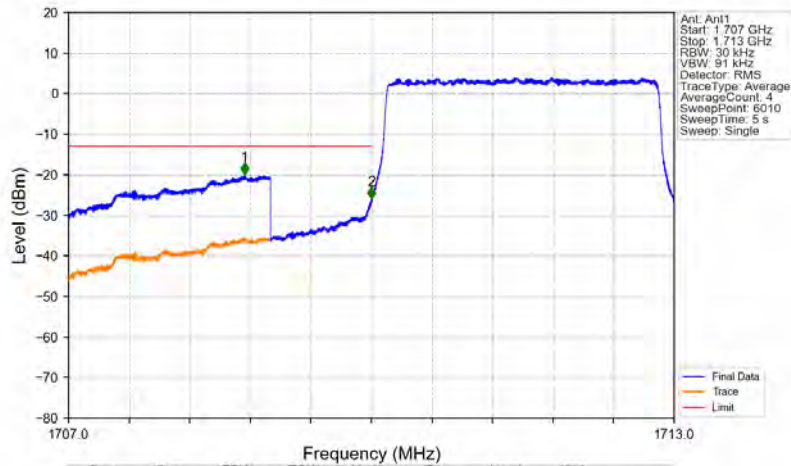
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	15.23	1	1708.743	-20.09	-13	Pass
1709	1710	0.03	0	2	1710.000	-26.07	-13	Pass
1710	1713	0.03	0	/	/	/	/	/



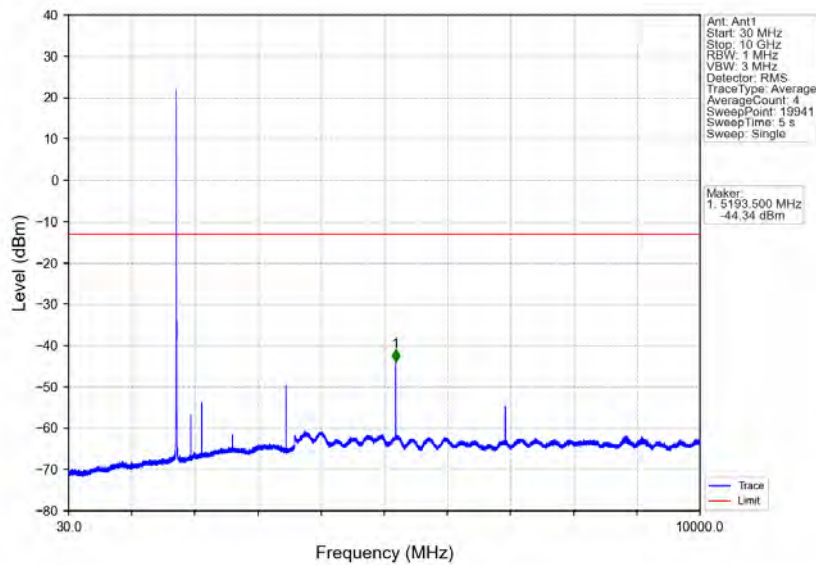
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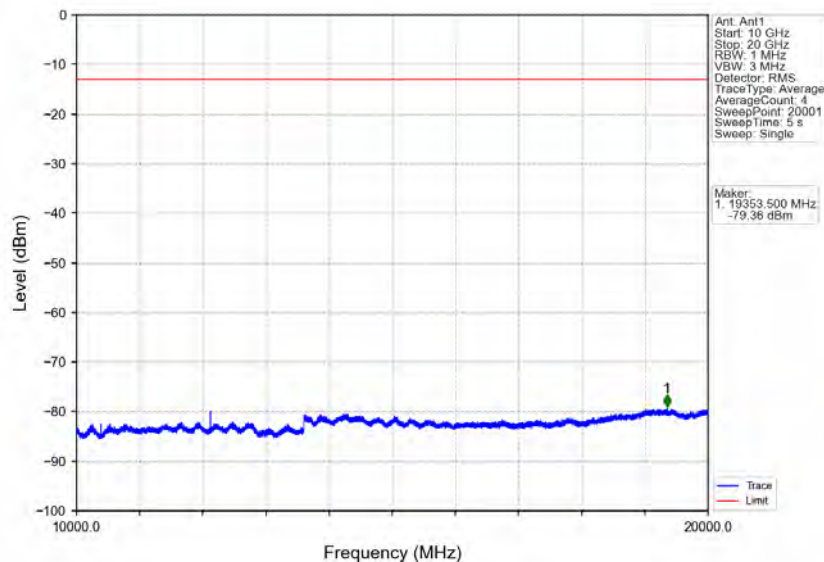
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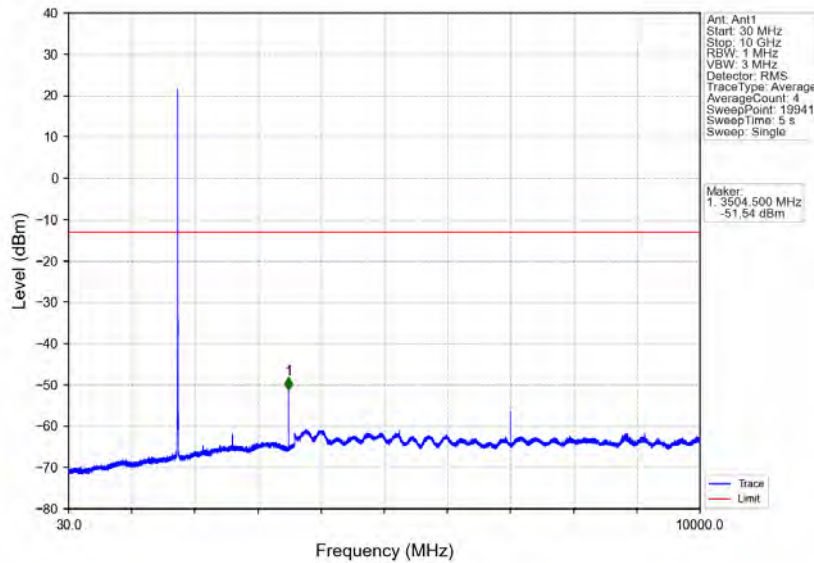
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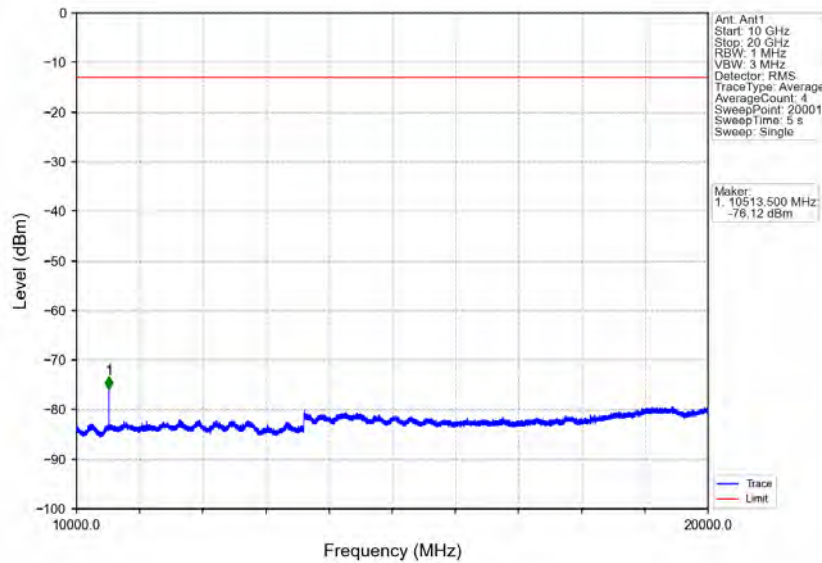
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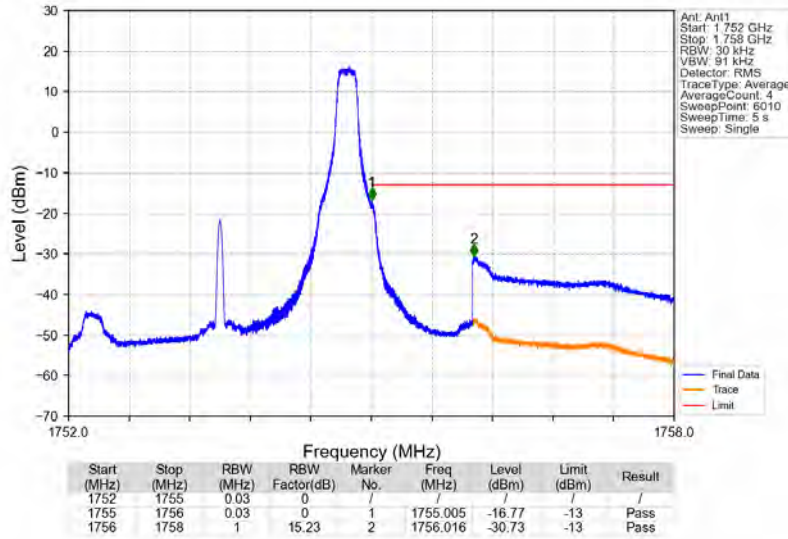
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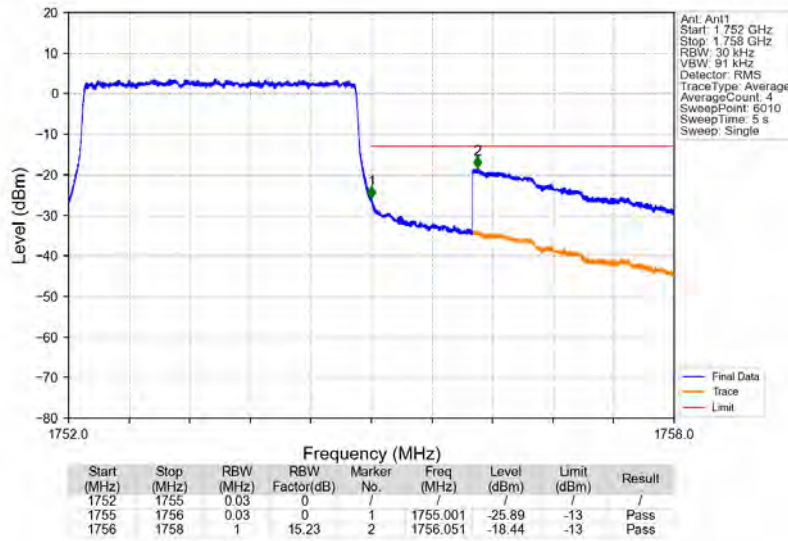
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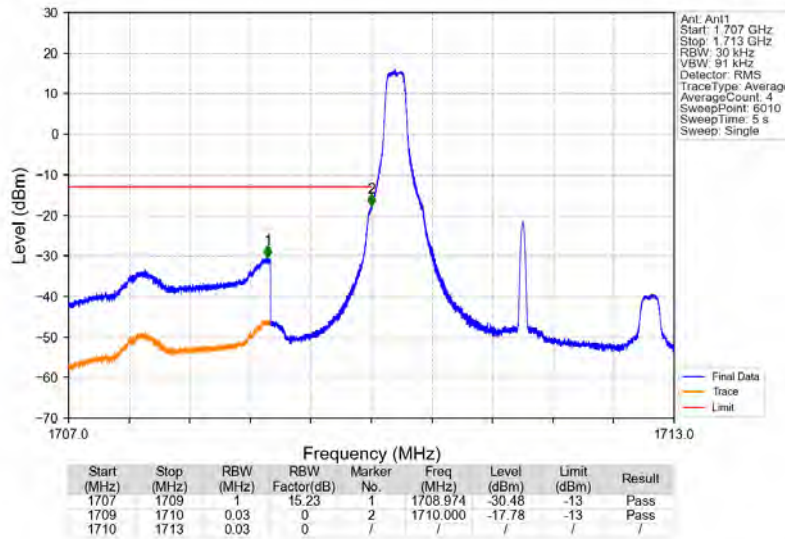
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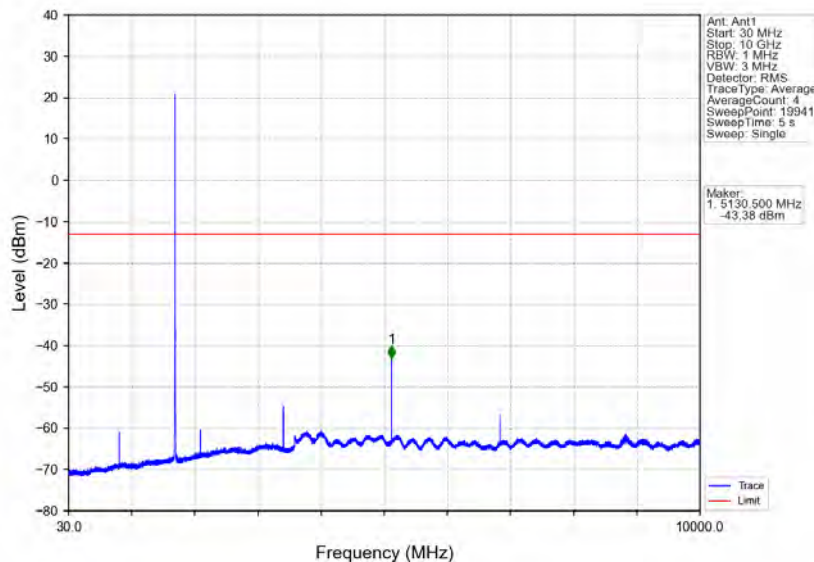
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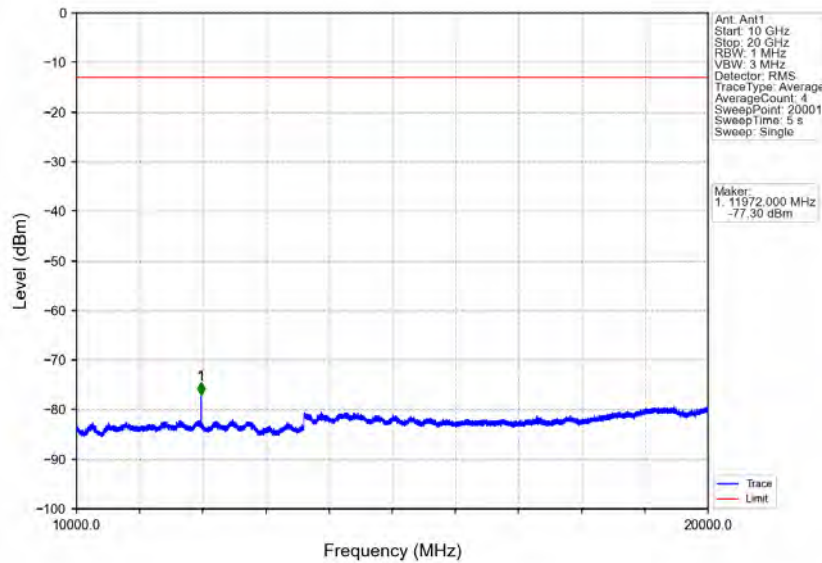
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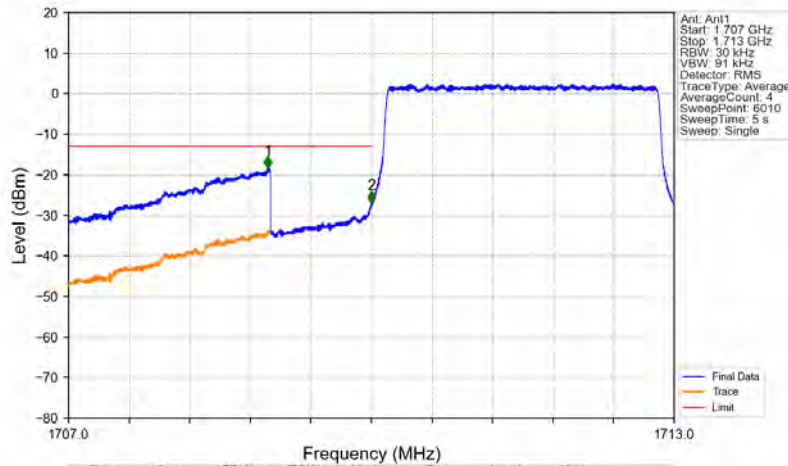


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_1_0_NTNV



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	1708.973	-18.44	-13	Pass
1709	1710	0.03	0	2	1709.999	-27.00	-13	Pass
1710	1713	0.03	0	/	/	/	/	/



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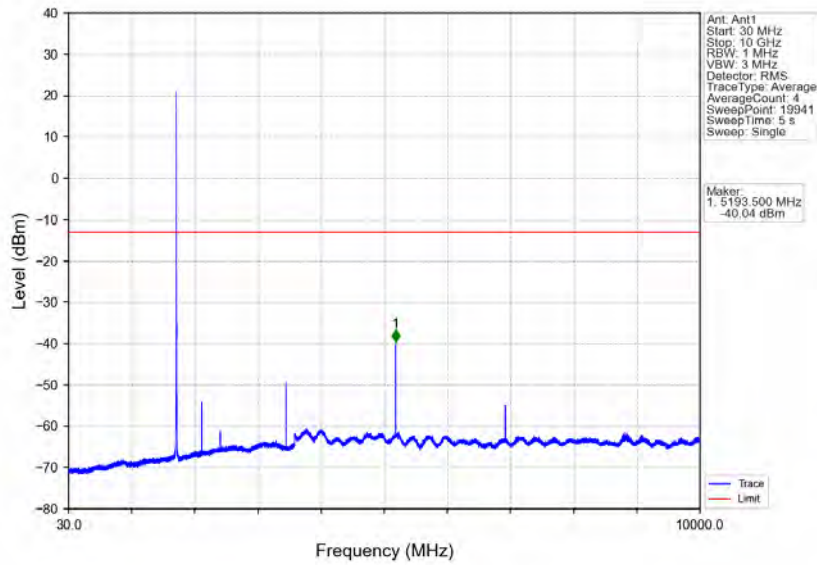
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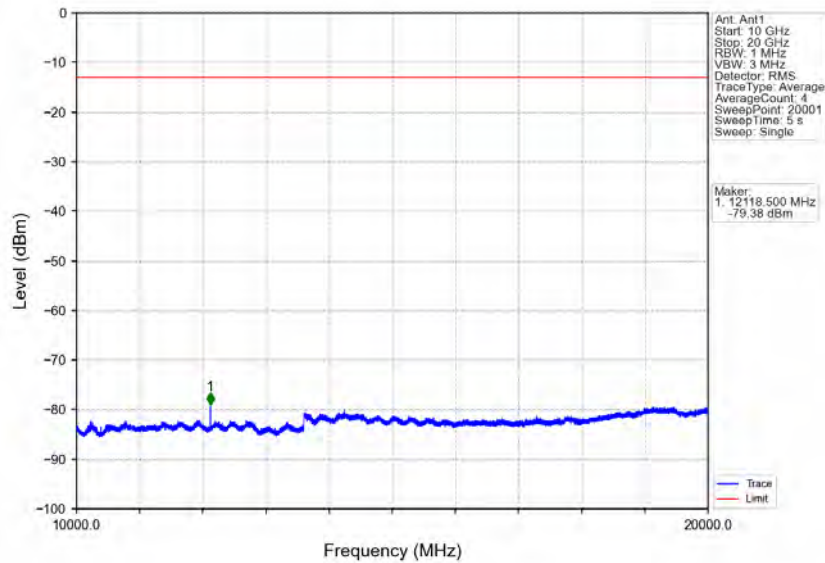
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_1_0_NTNV



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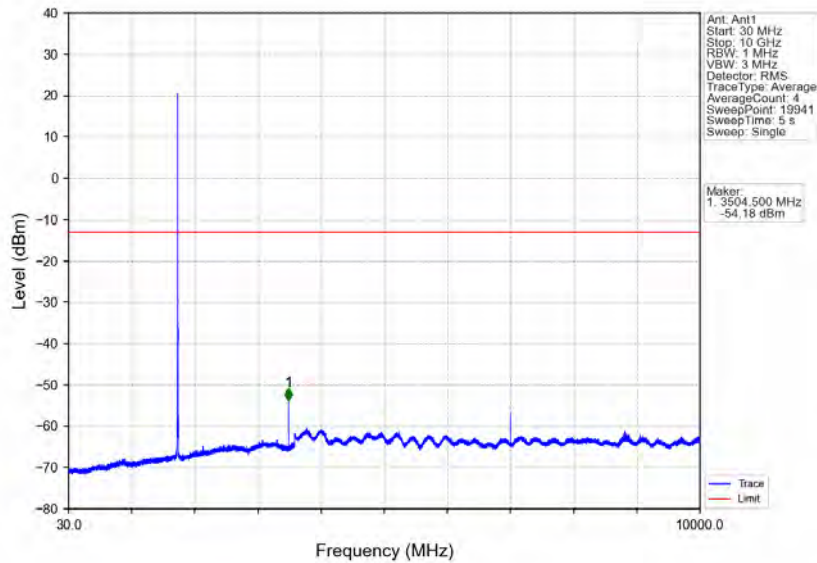
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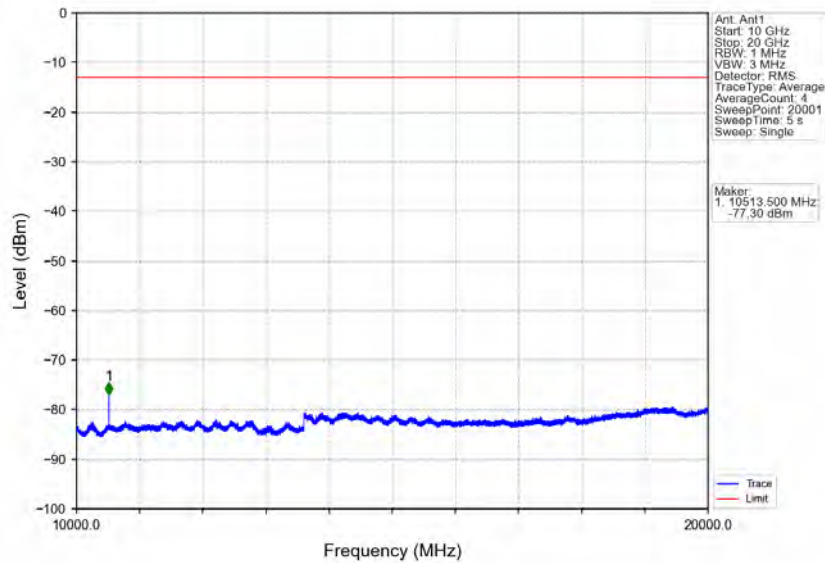
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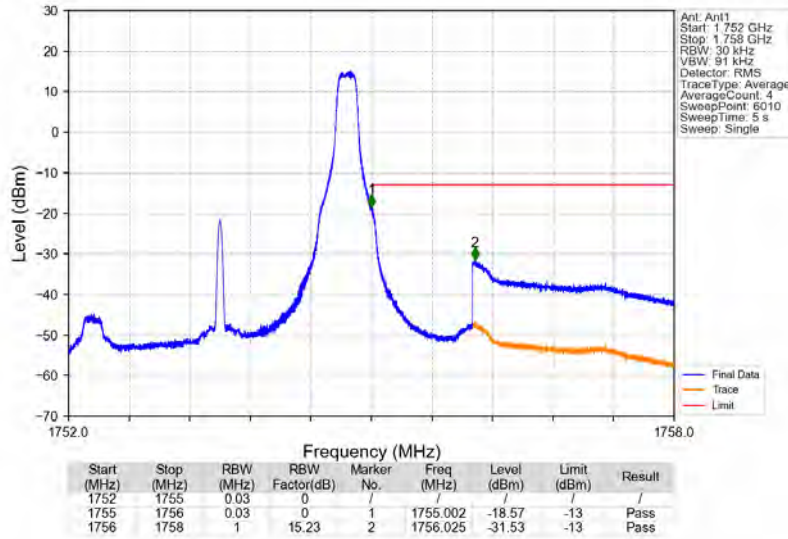
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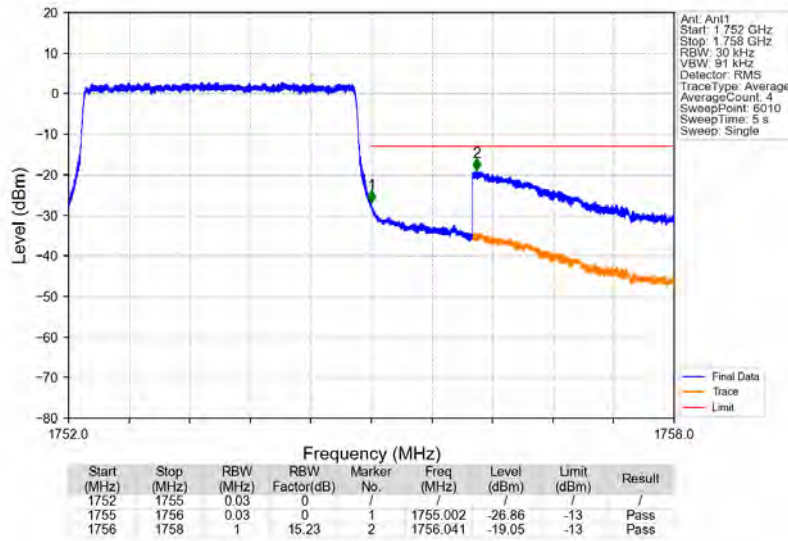


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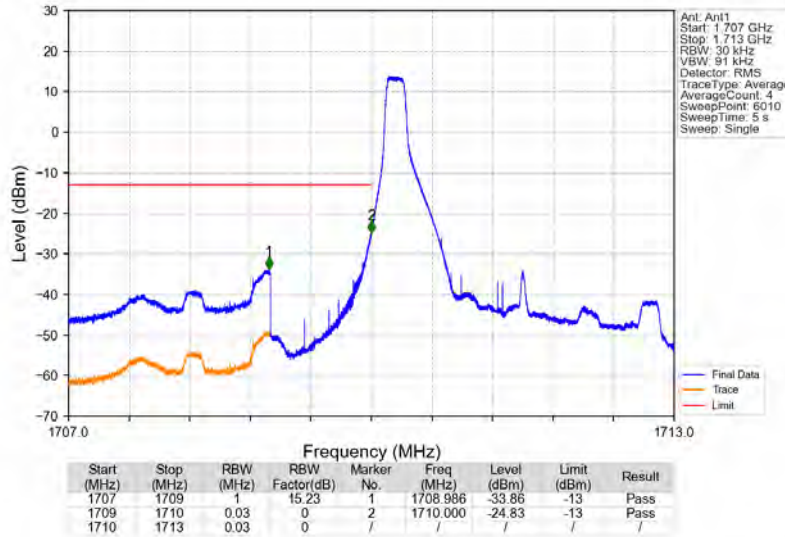
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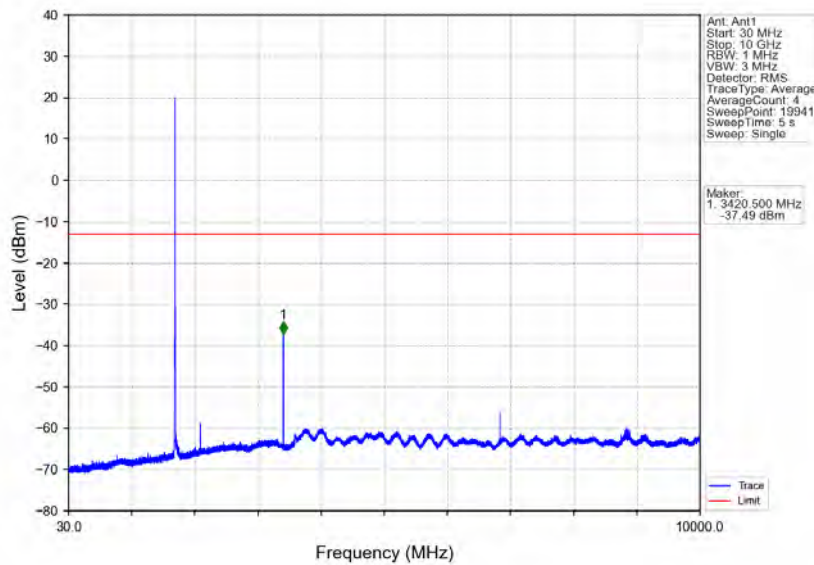
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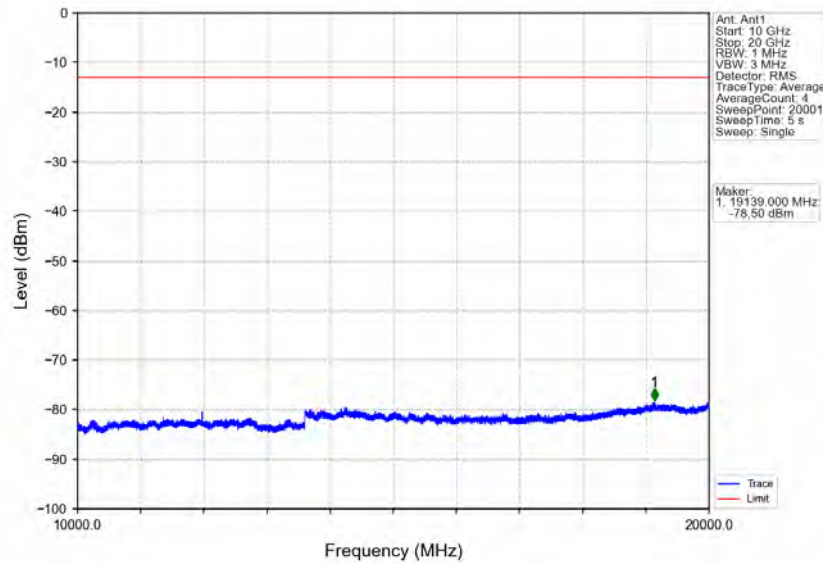
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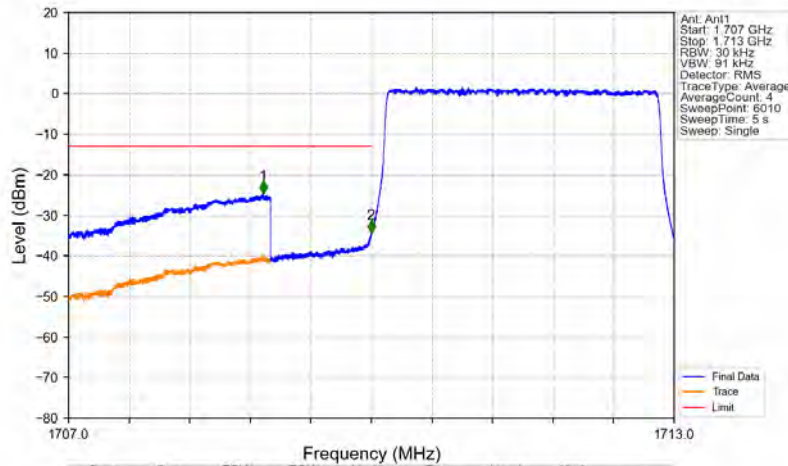


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Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	15.23	1	1708.929	-24.64	-13	Pass
1709	1710	0.03	0	2	1709.998	-34.36	-13	Pass
1710	1713	0.03	0	/	/	/	/	/



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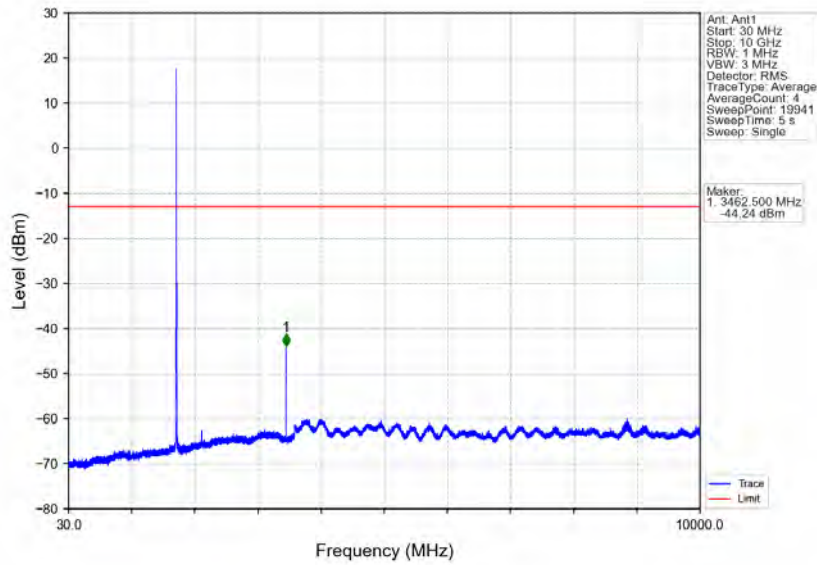
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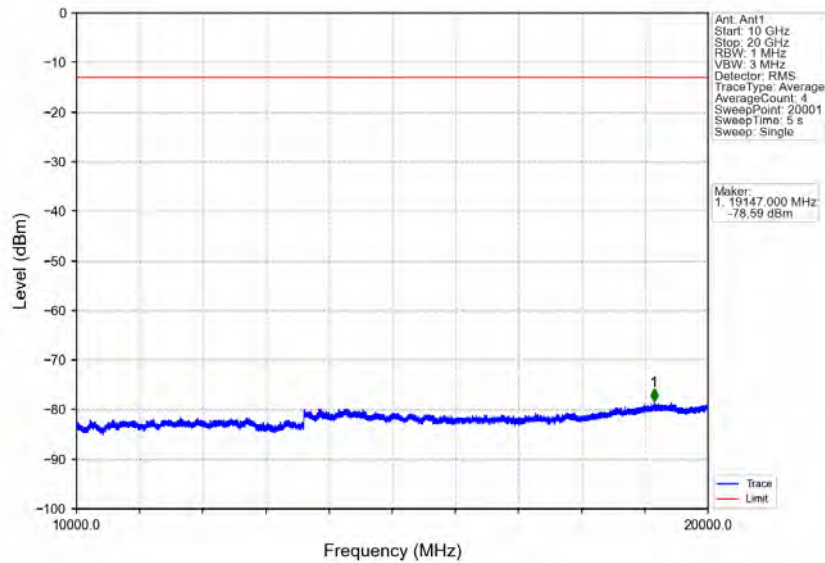
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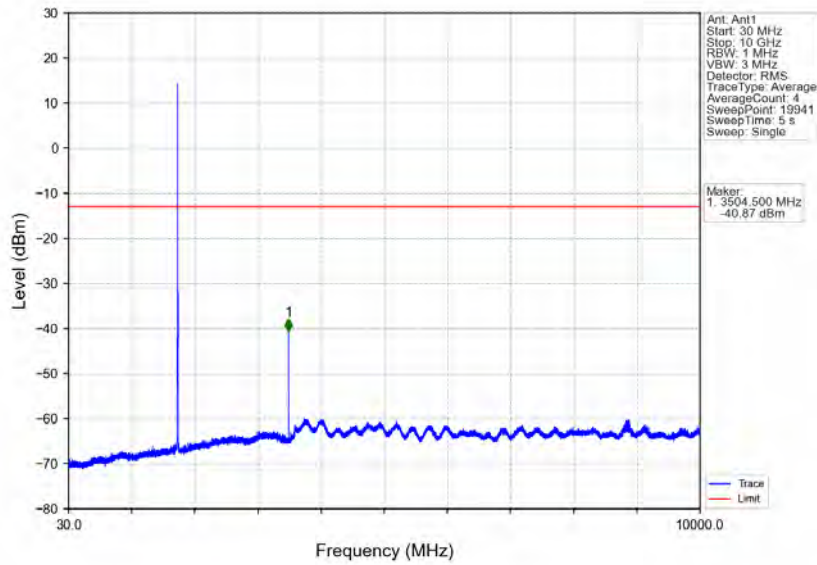
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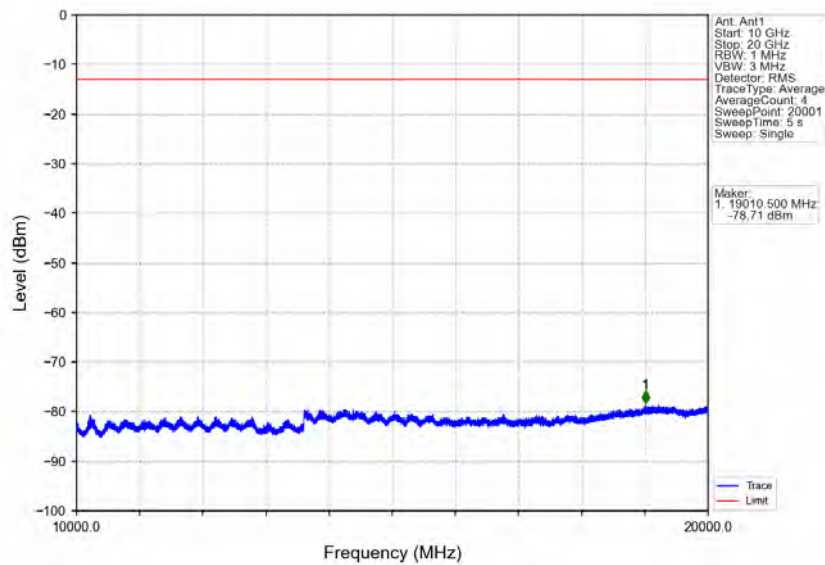
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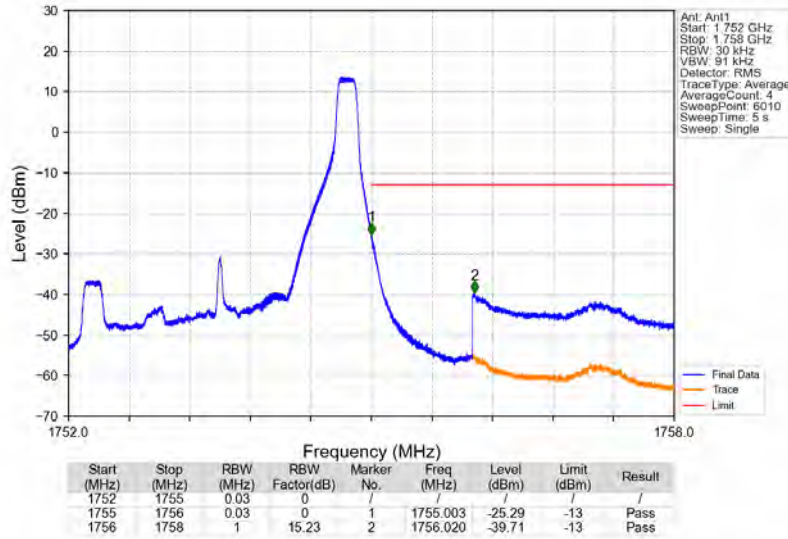


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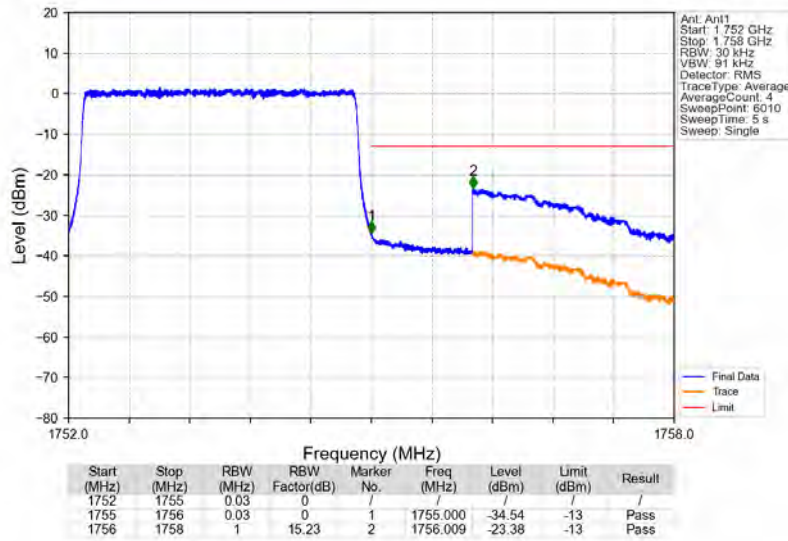
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6.3 B4_5MHz

6.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1712.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1752.5	1	0	Refer To Test Graph		Pass
				24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass	
16QAM	1712.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1752.5	1	0	Refer To Test Graph		Pass
				24	Refer To Test Graph		Pass
		25	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	
		1752.5	1	0	Refer To Test Graph		Pass
				24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass	

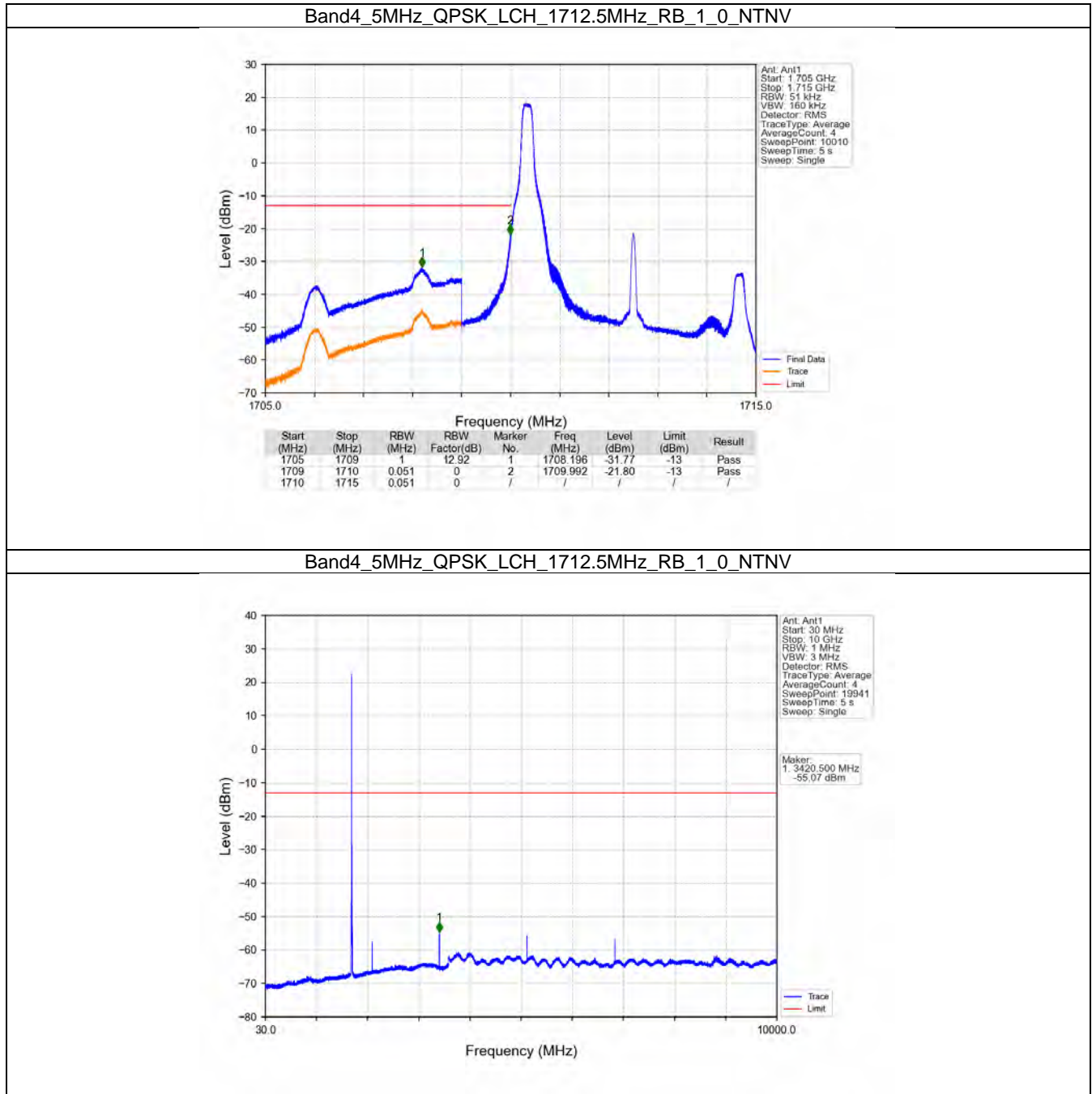


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6.3.2 Test Graph



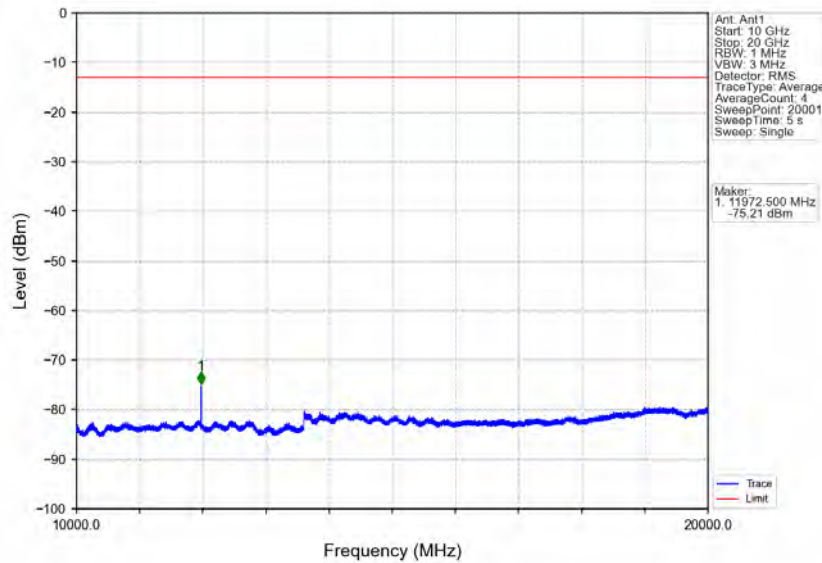
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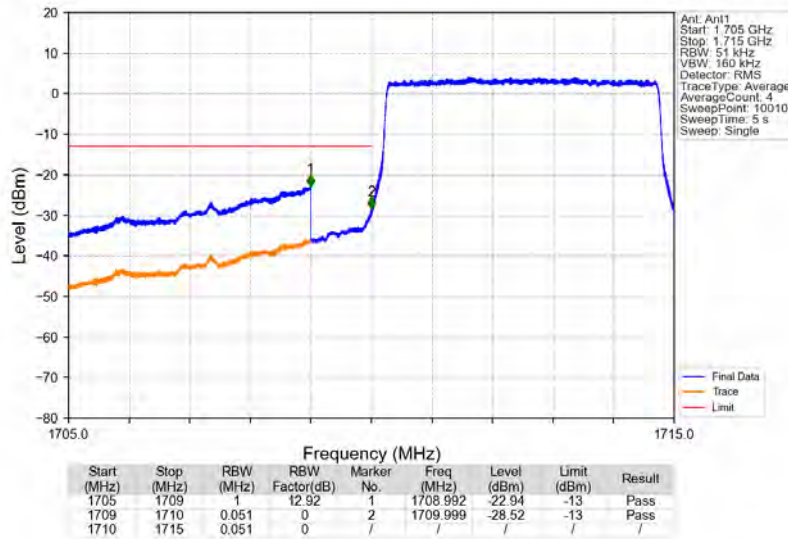
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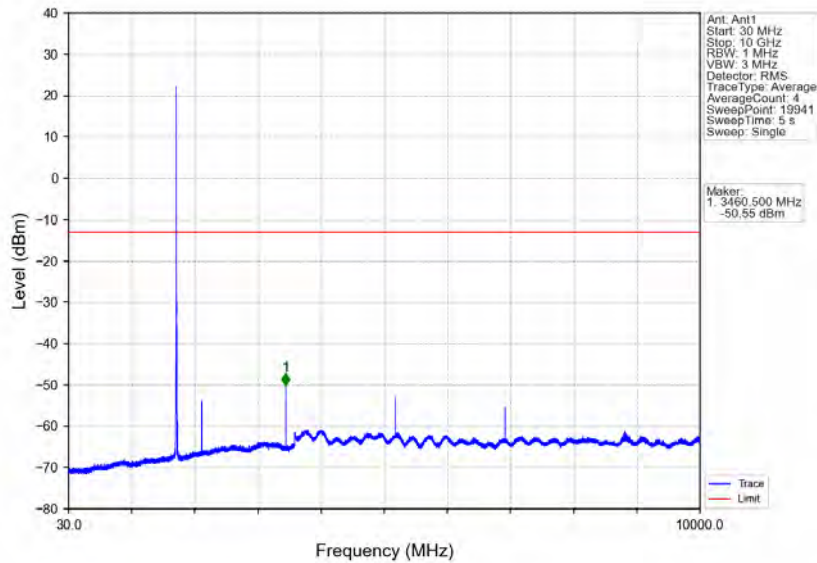
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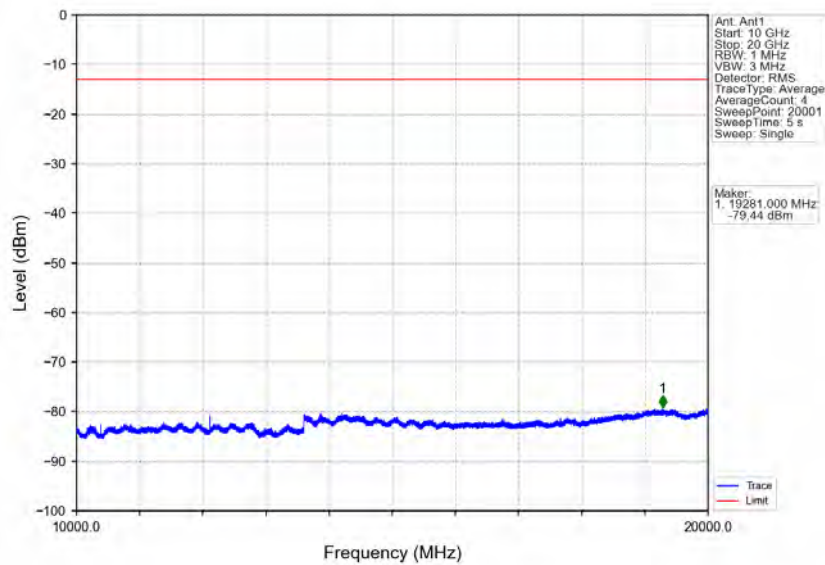
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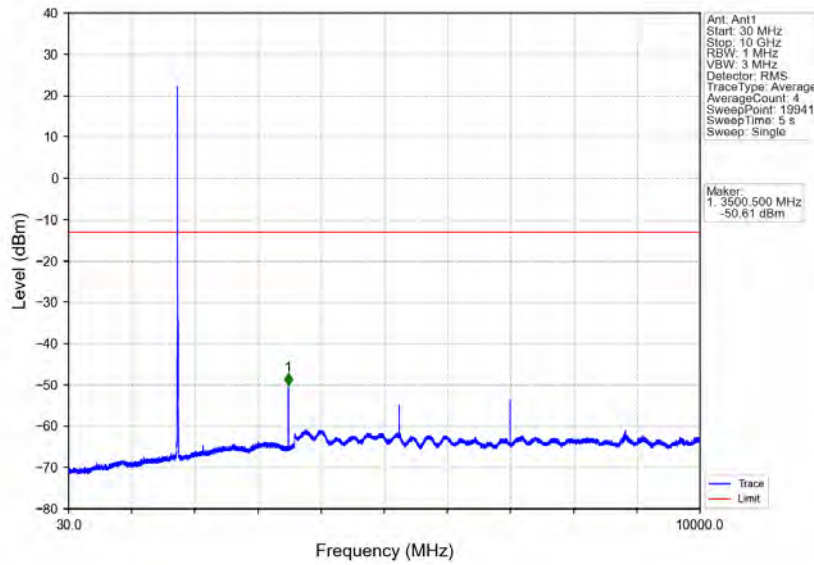
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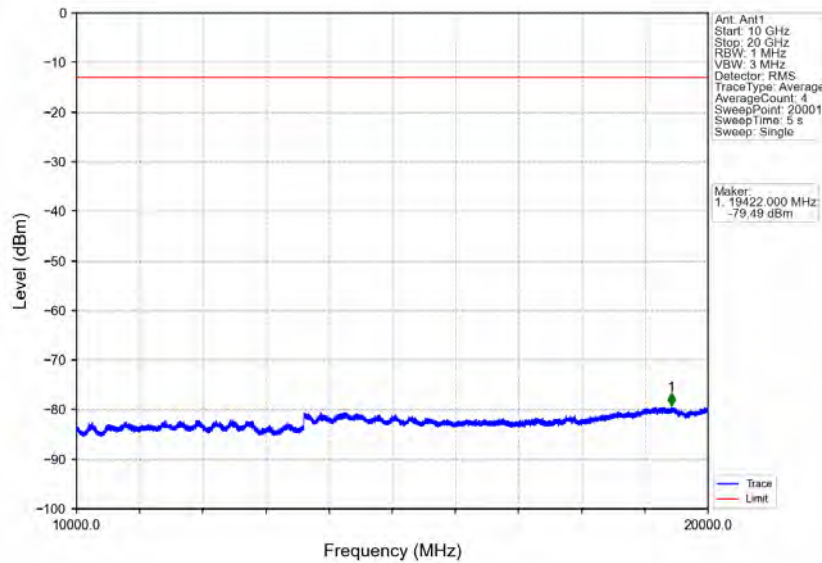
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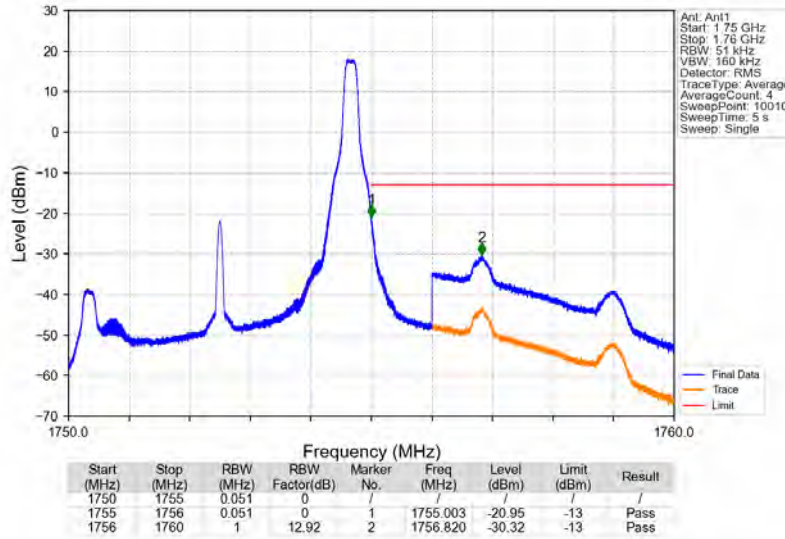
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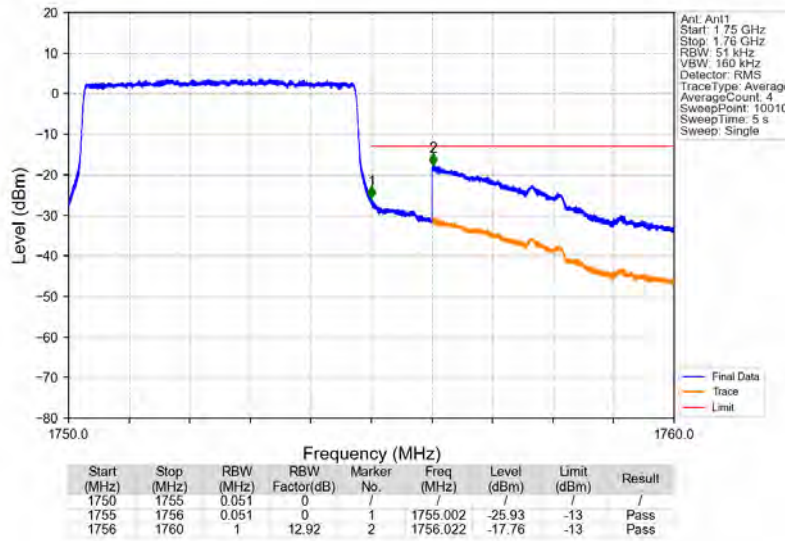
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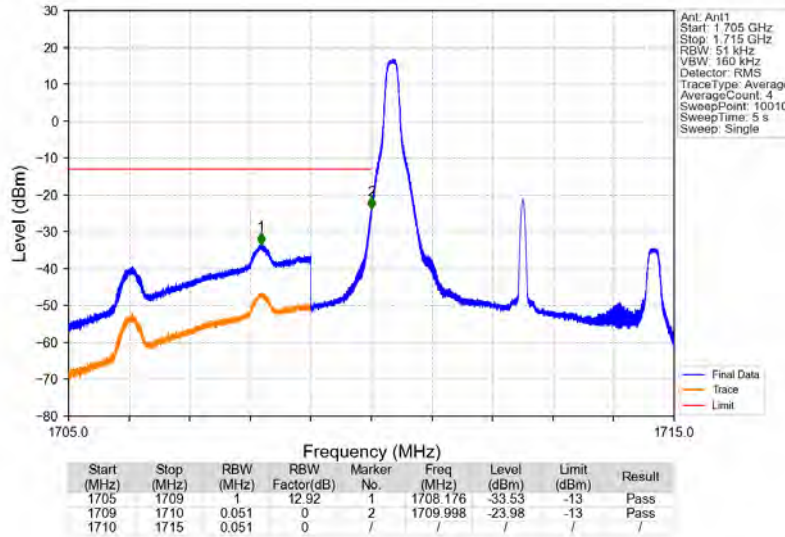
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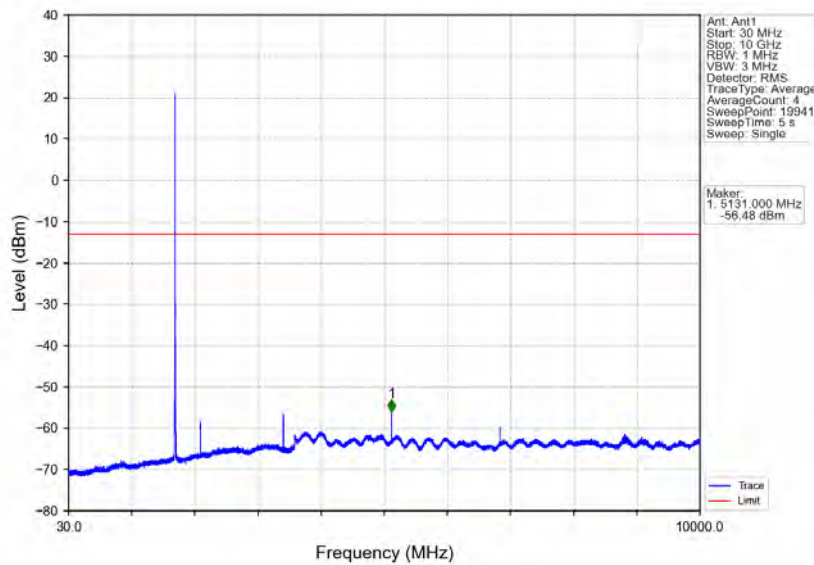
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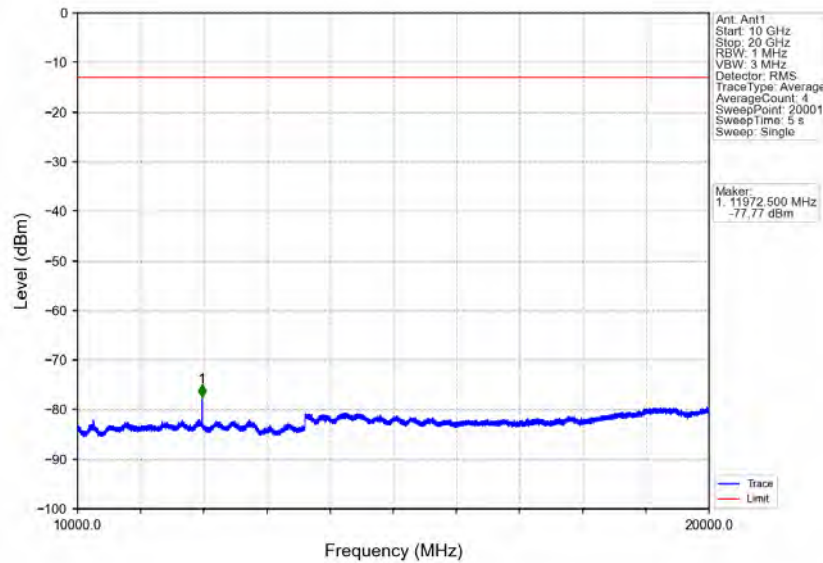
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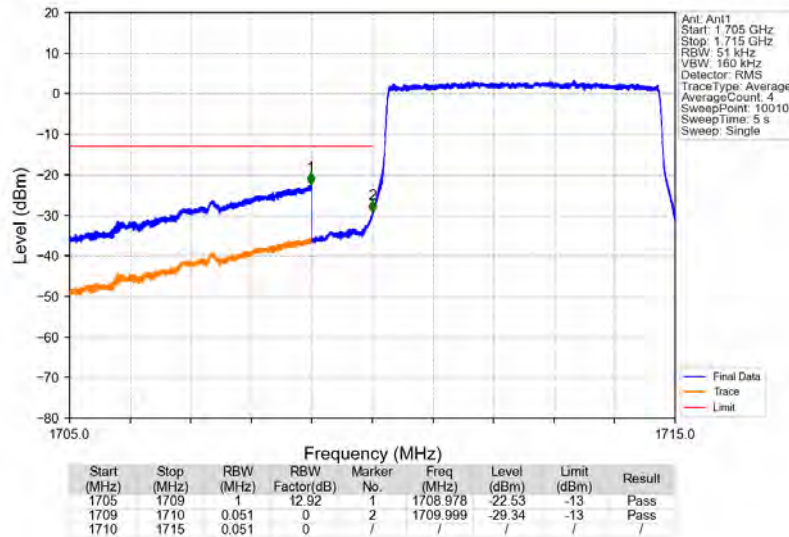


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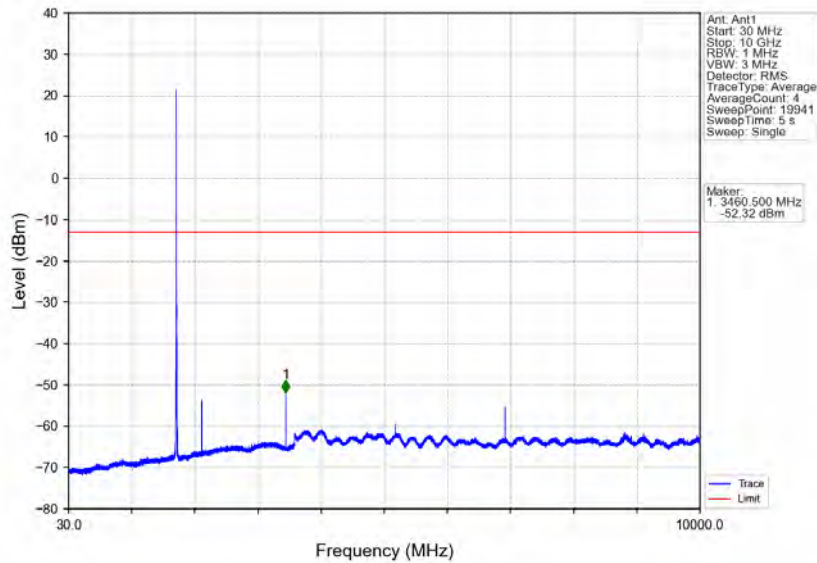
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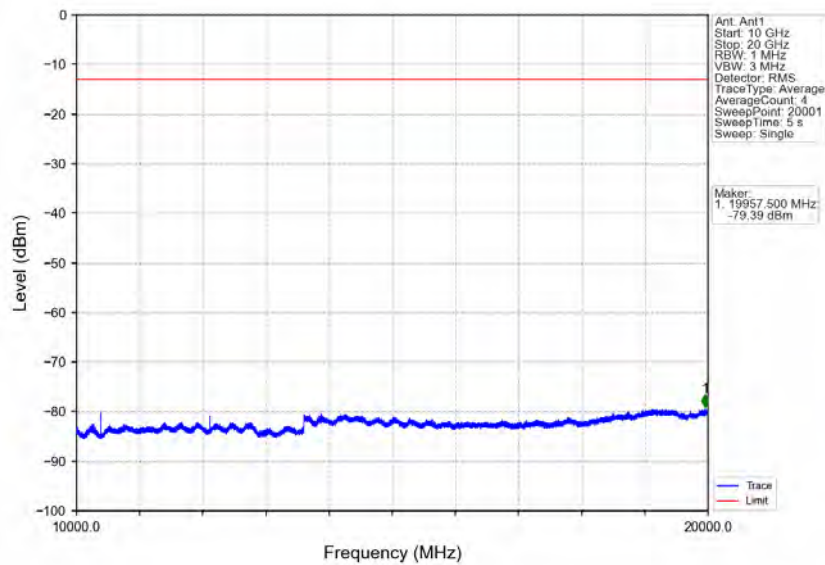
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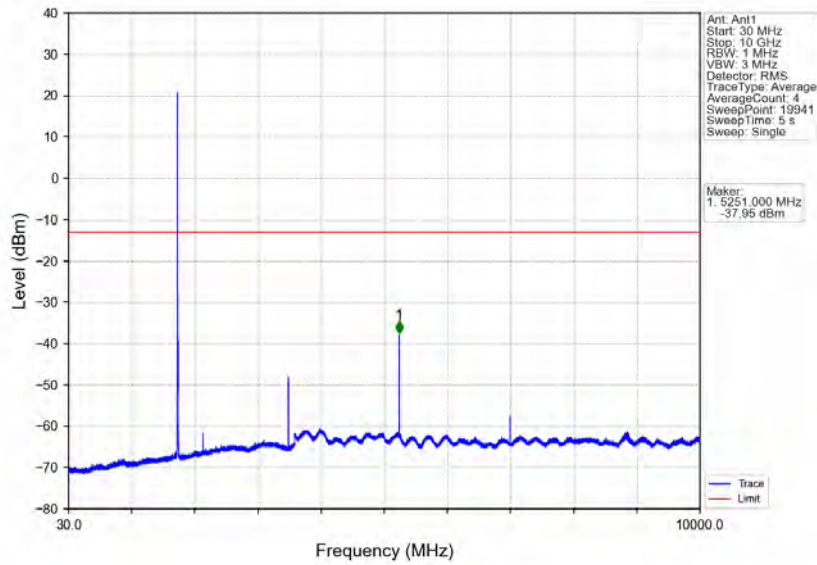
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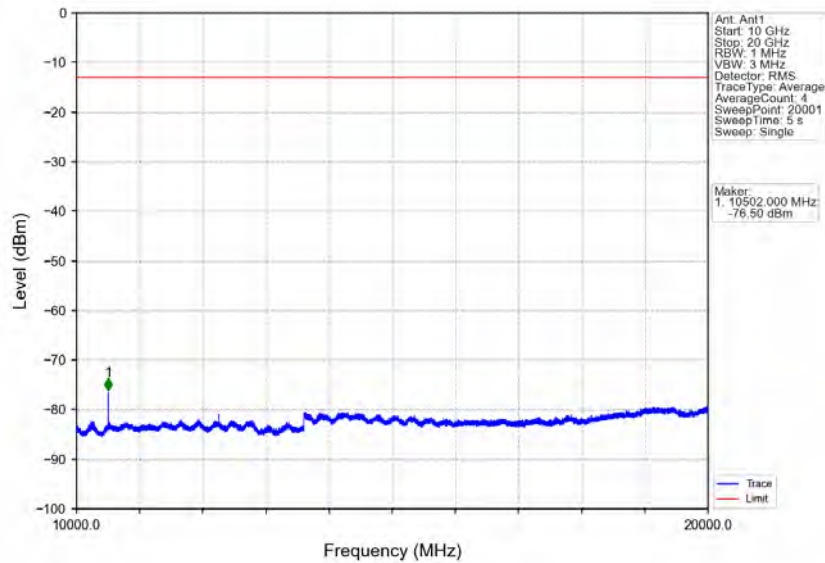
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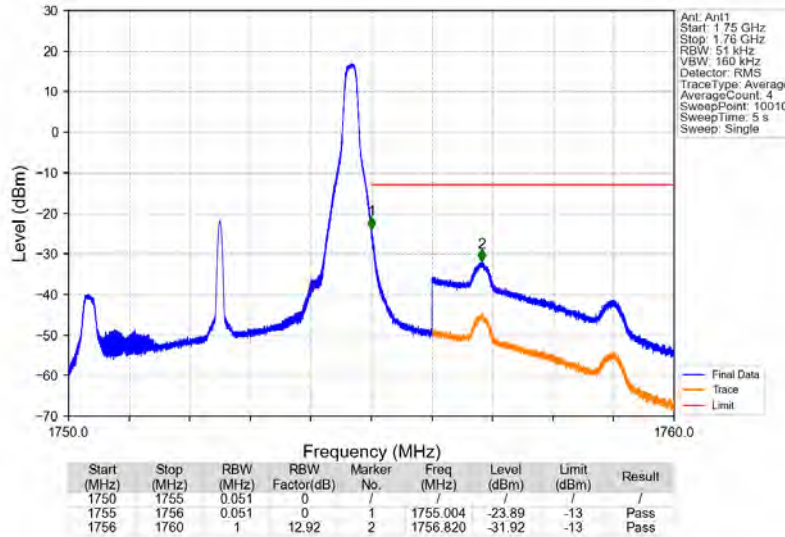
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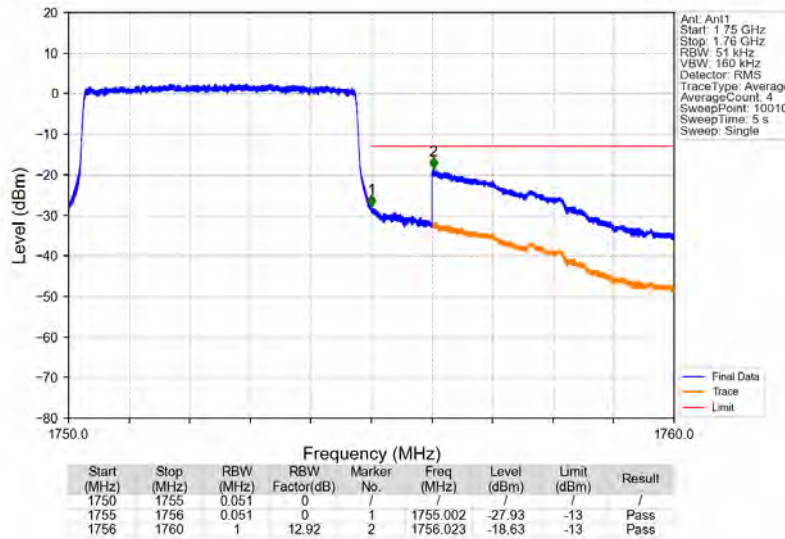
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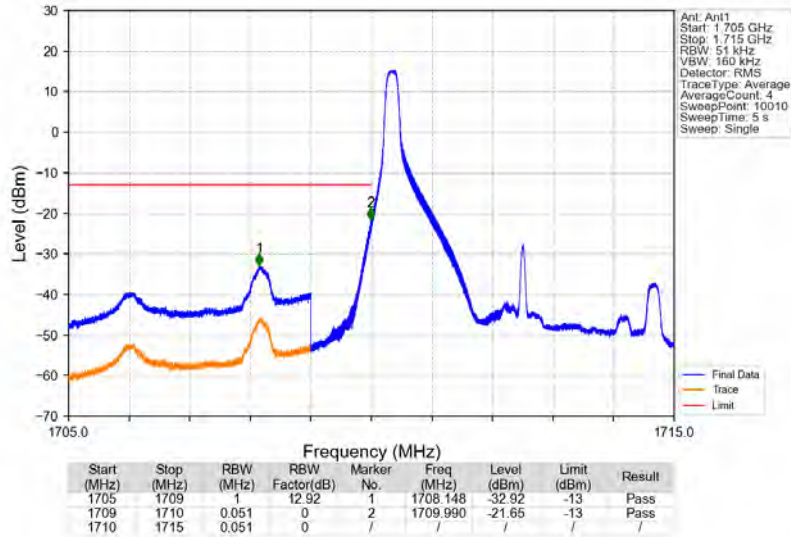
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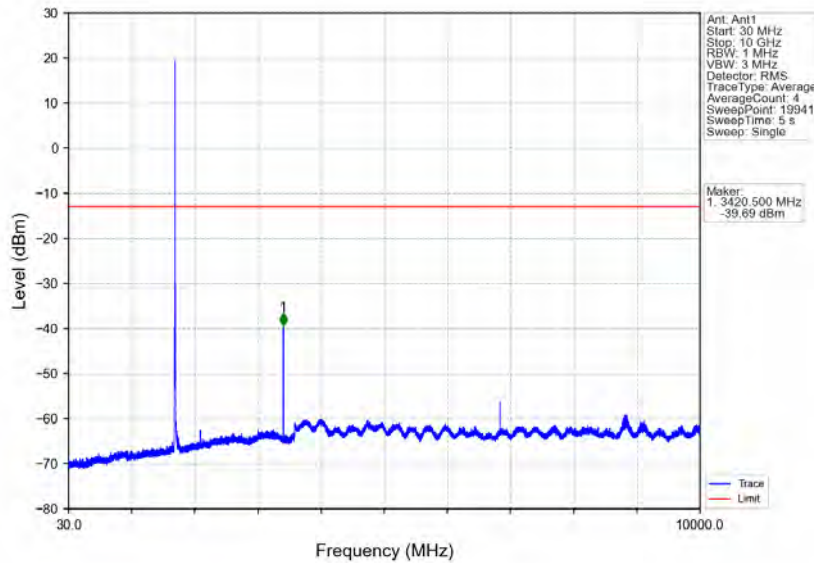
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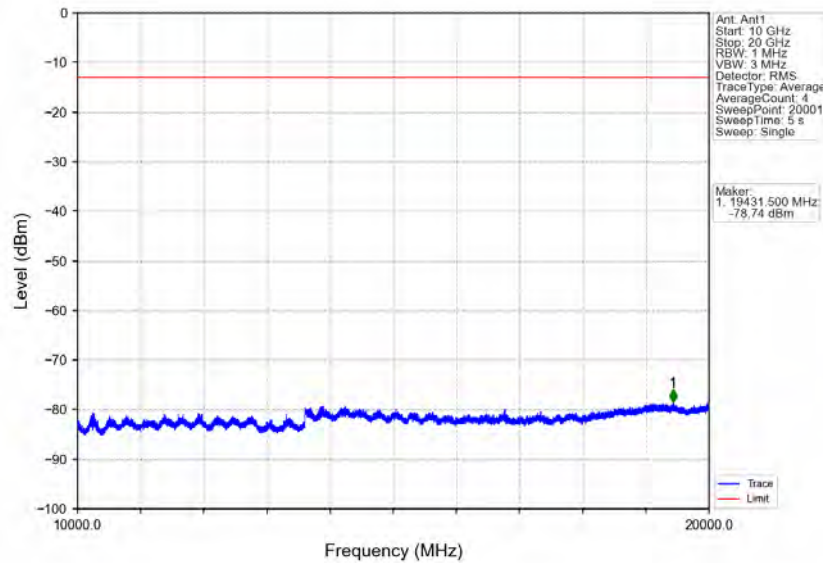
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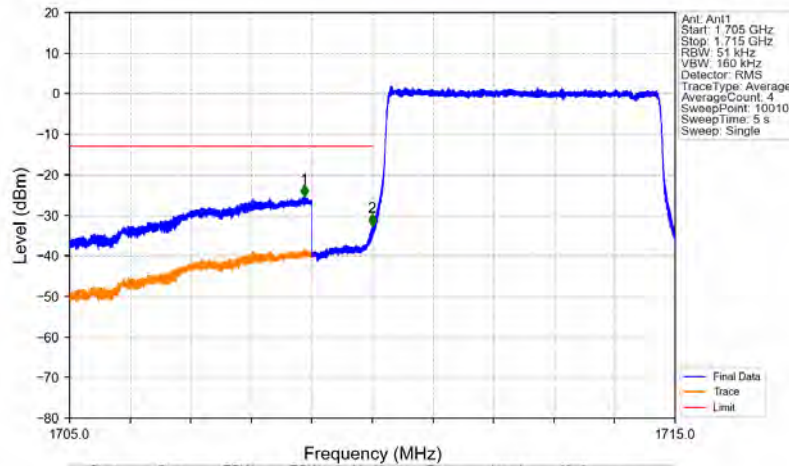


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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	12.92	1	1708.877	-25.50	-13	Pass
1709	1710	0.051	0	2	1709.996	-32.64	-13	Pass
1710	1715	0.051	0	/	/	/	/	/



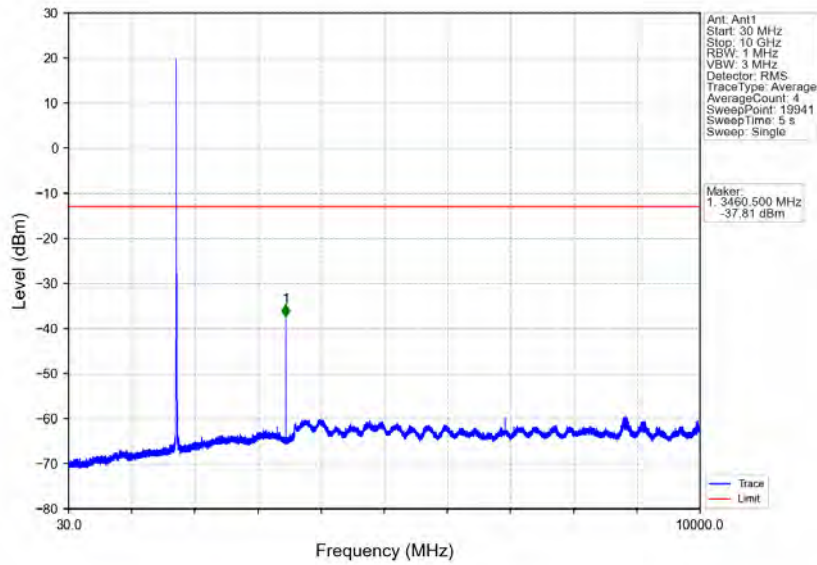
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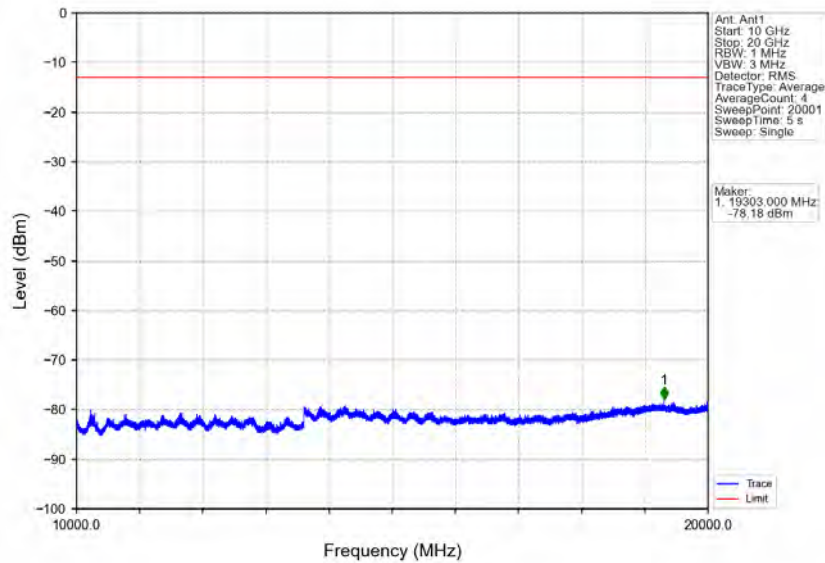
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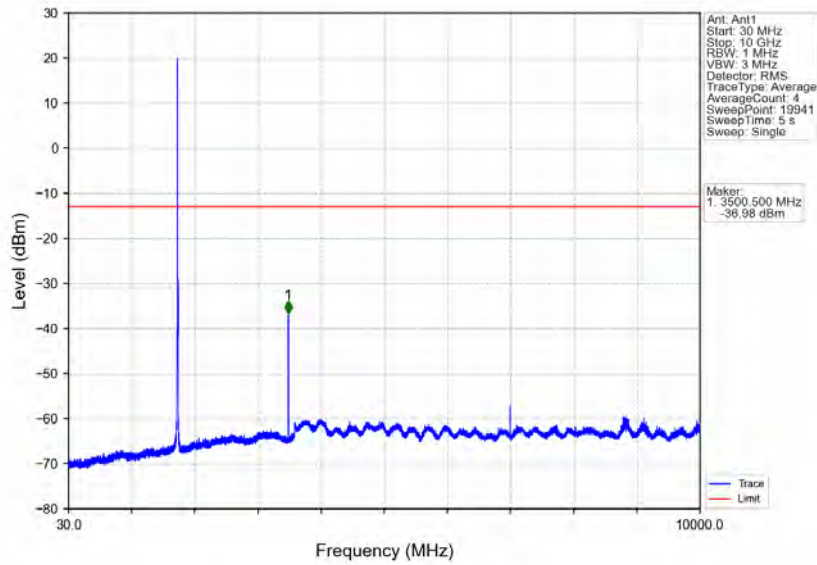
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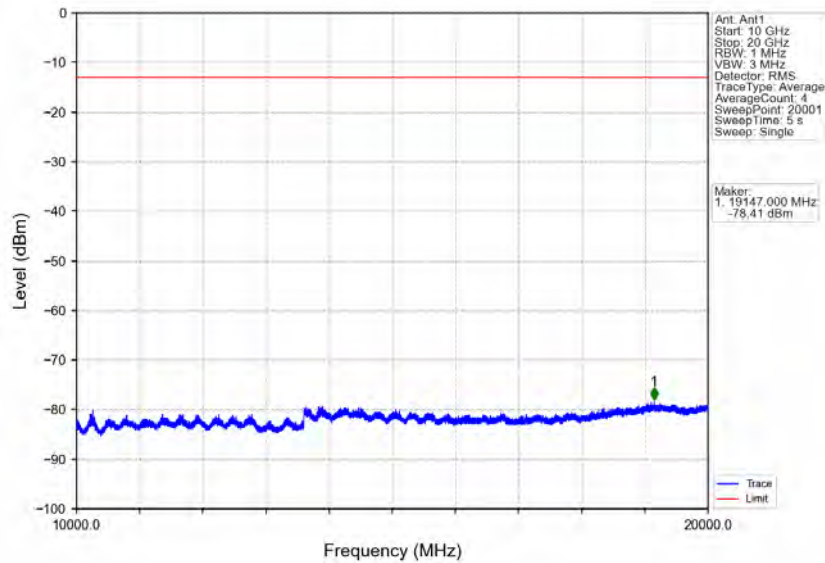
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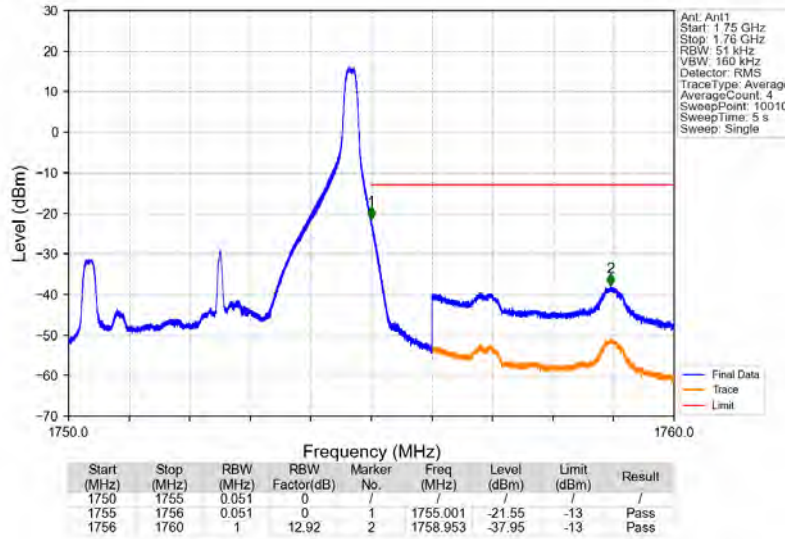
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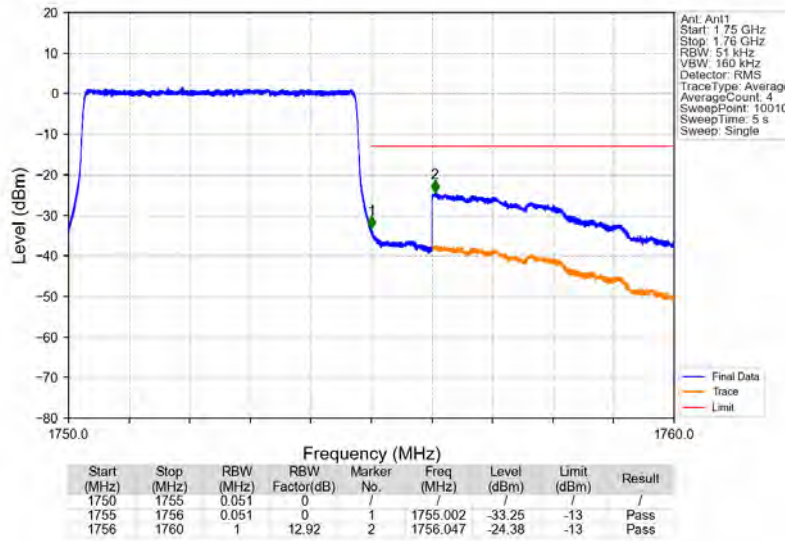
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6.4 B4_10MHz

6.4.1 Test Result

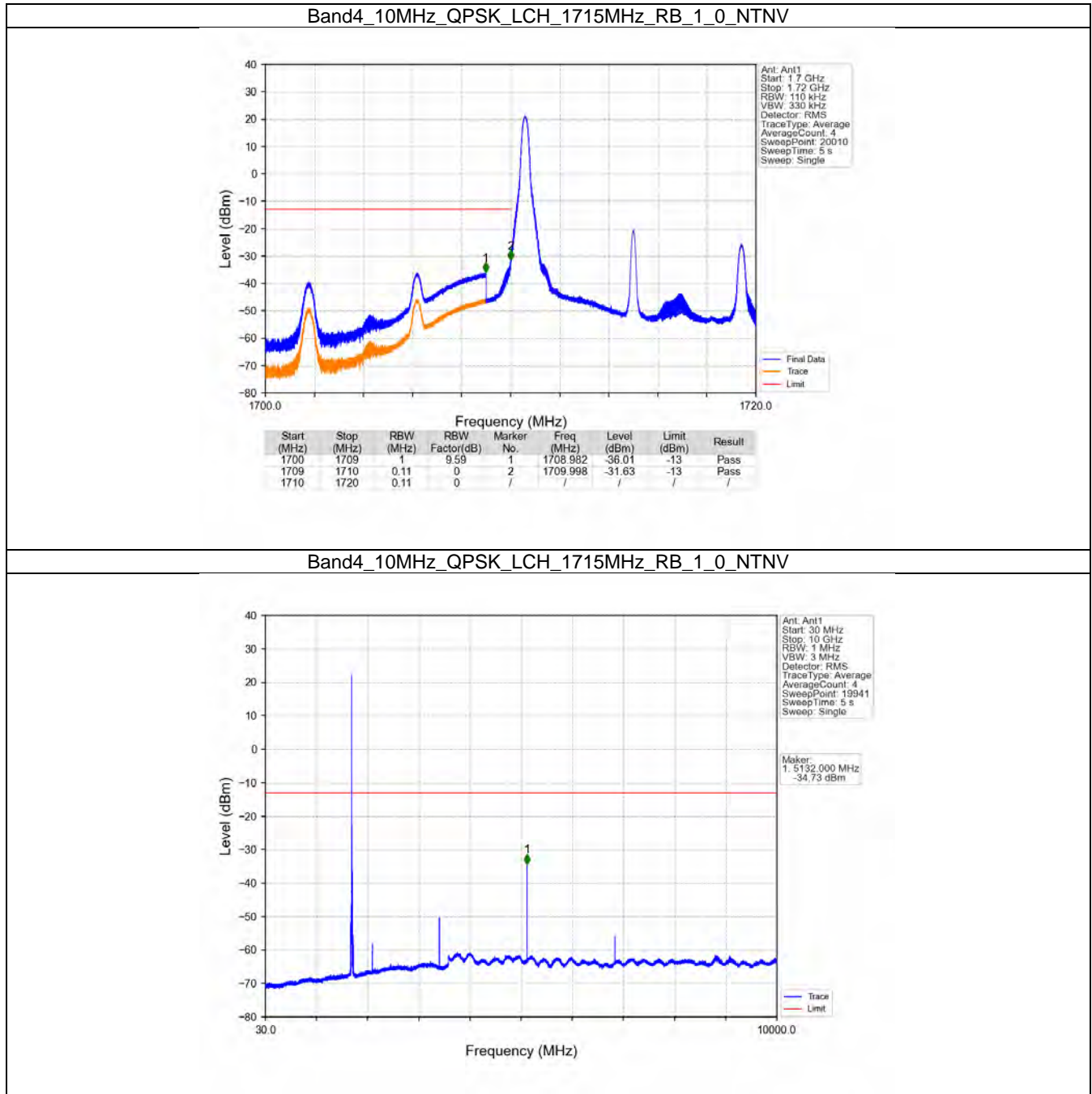
Band: 4 / Bandwidth: 10MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1715	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1750	1	0	Refer To Test Graph		Pass
				49	Refer 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	
		1750	1	0	Refer To Test Graph		Pass
				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	
		1750	1	0	Refer To Test Graph		Pass
				49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass	



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6.4.2 Test Graph



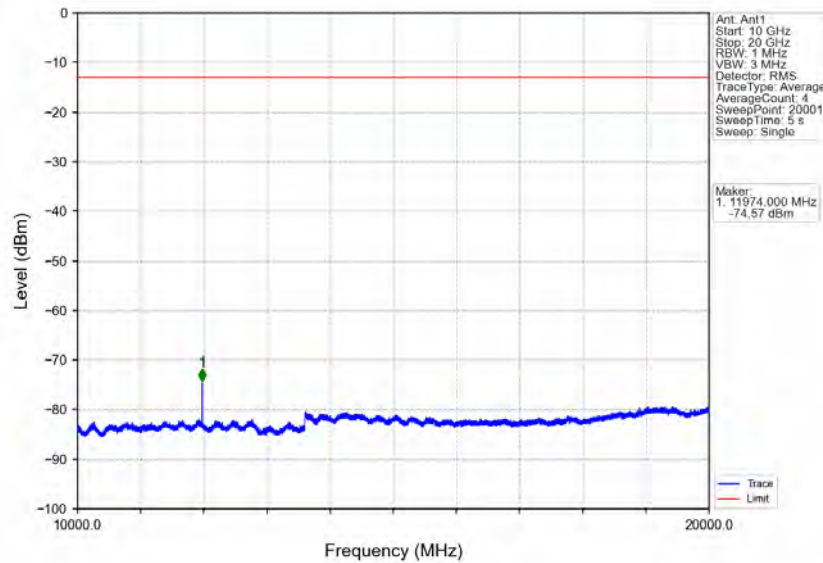
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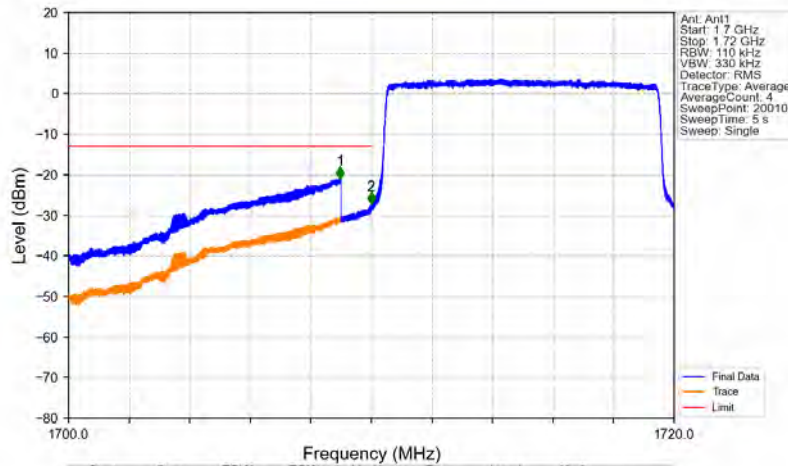
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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



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	9.59	1	1708.964	-21.01	-13	Pass
1709	1710	0.11	0	2	1709.989	-27.27	-13	Pass
1710	1720	0.11	0	/	/	/	/	/



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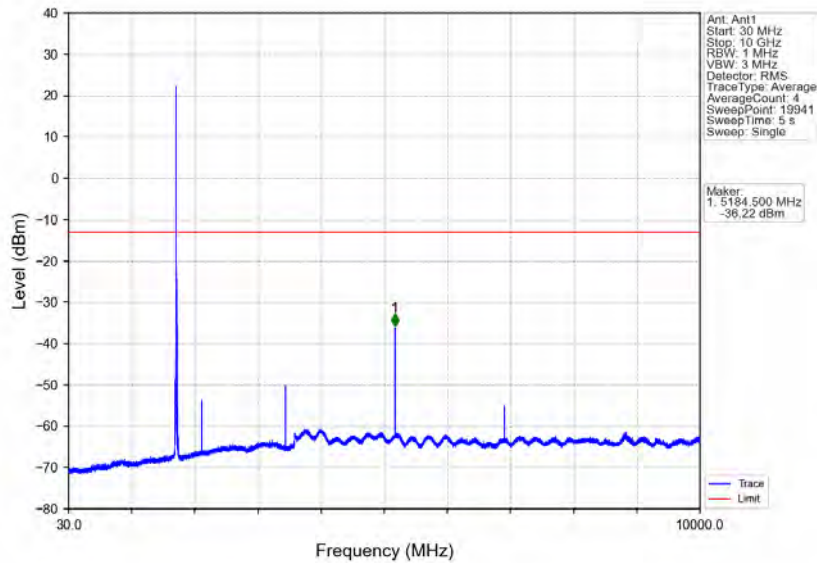
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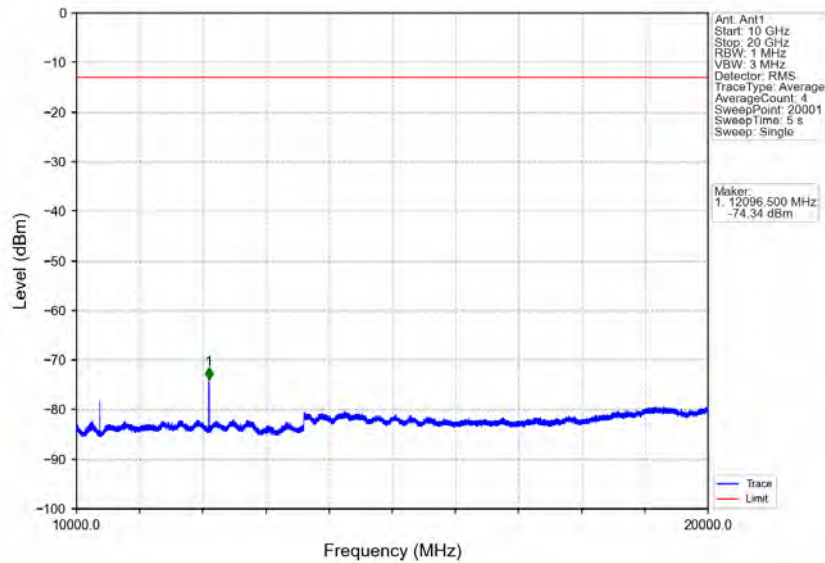
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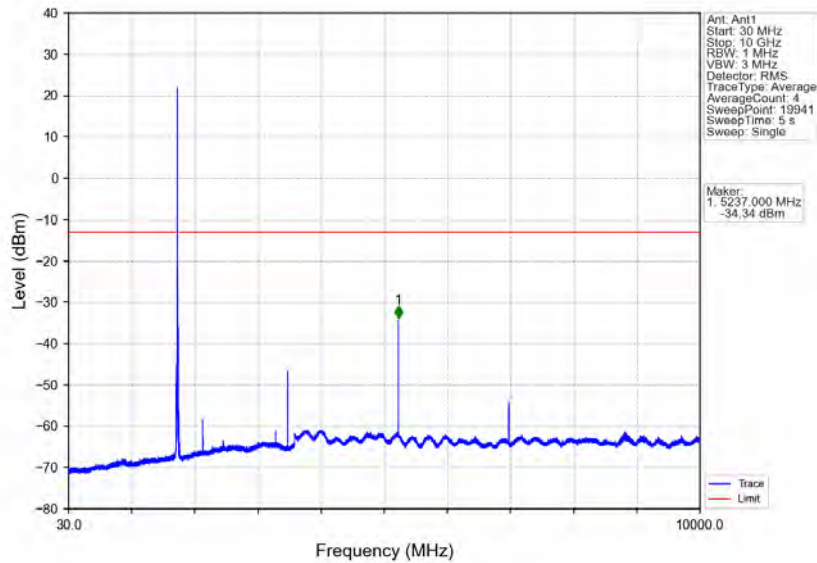
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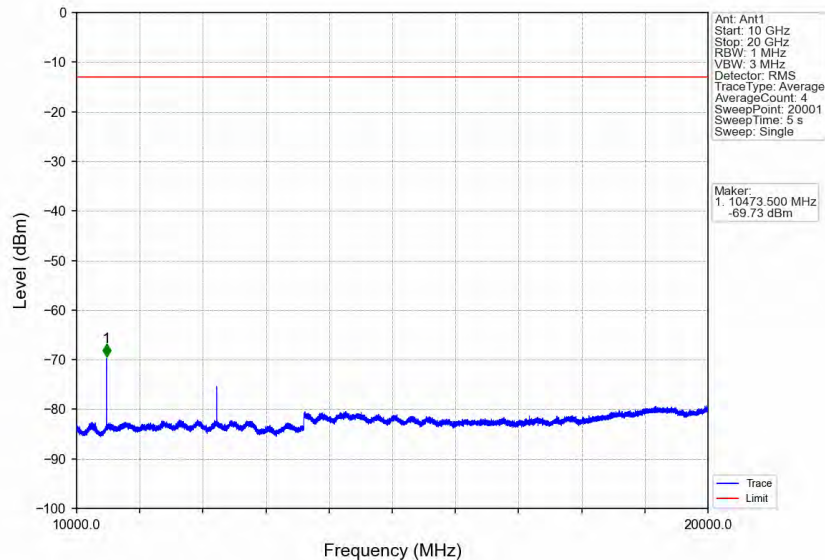
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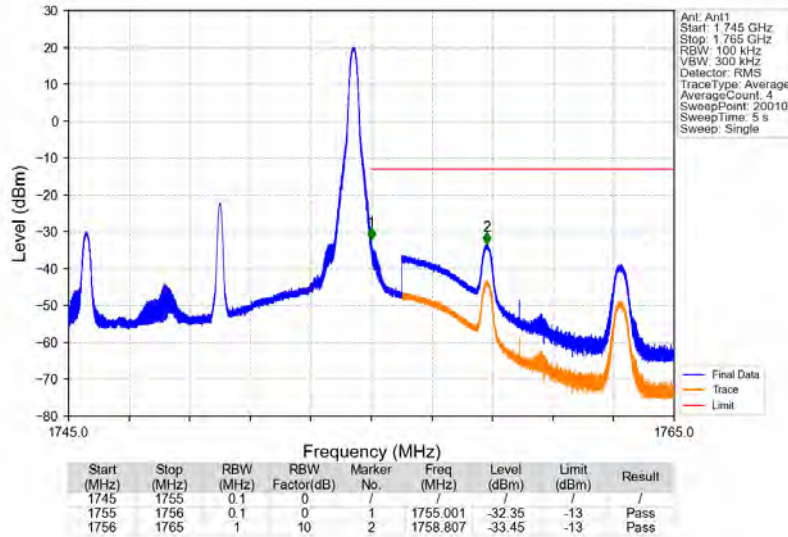
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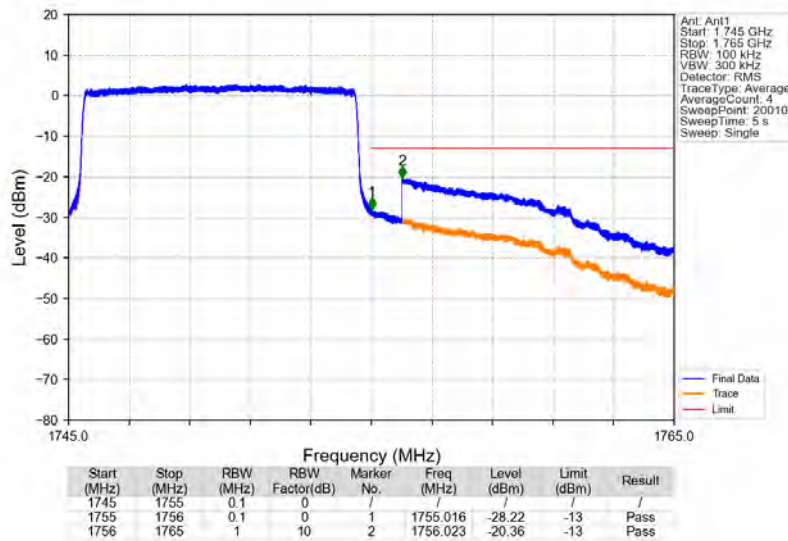


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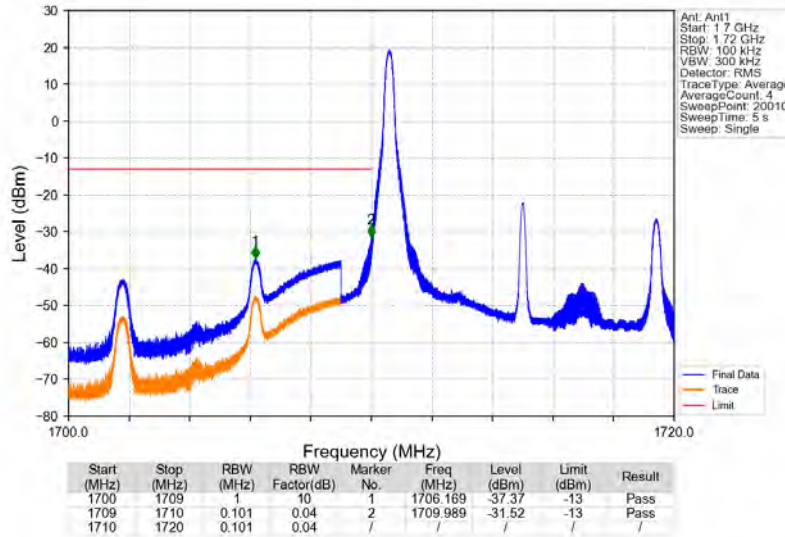
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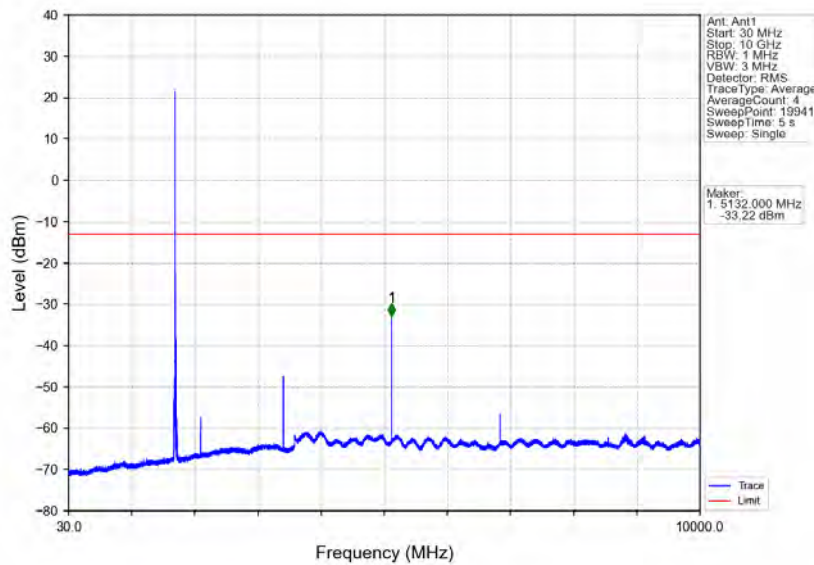
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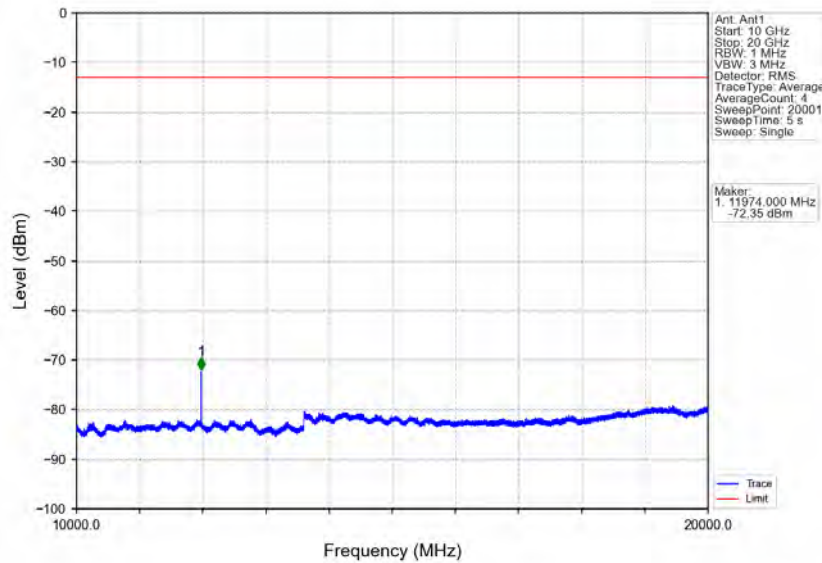
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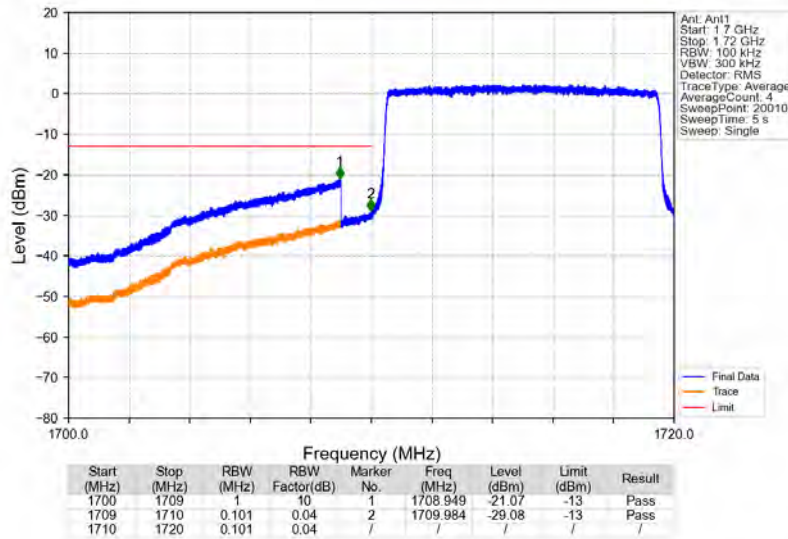


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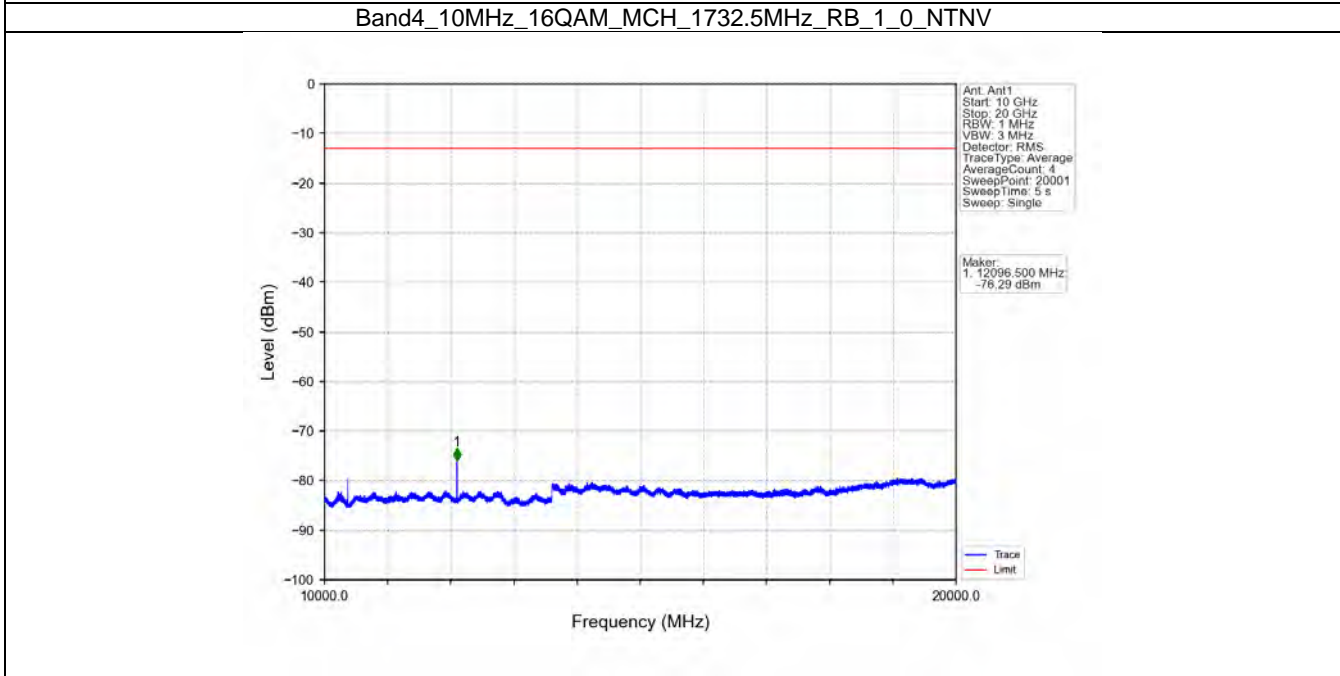
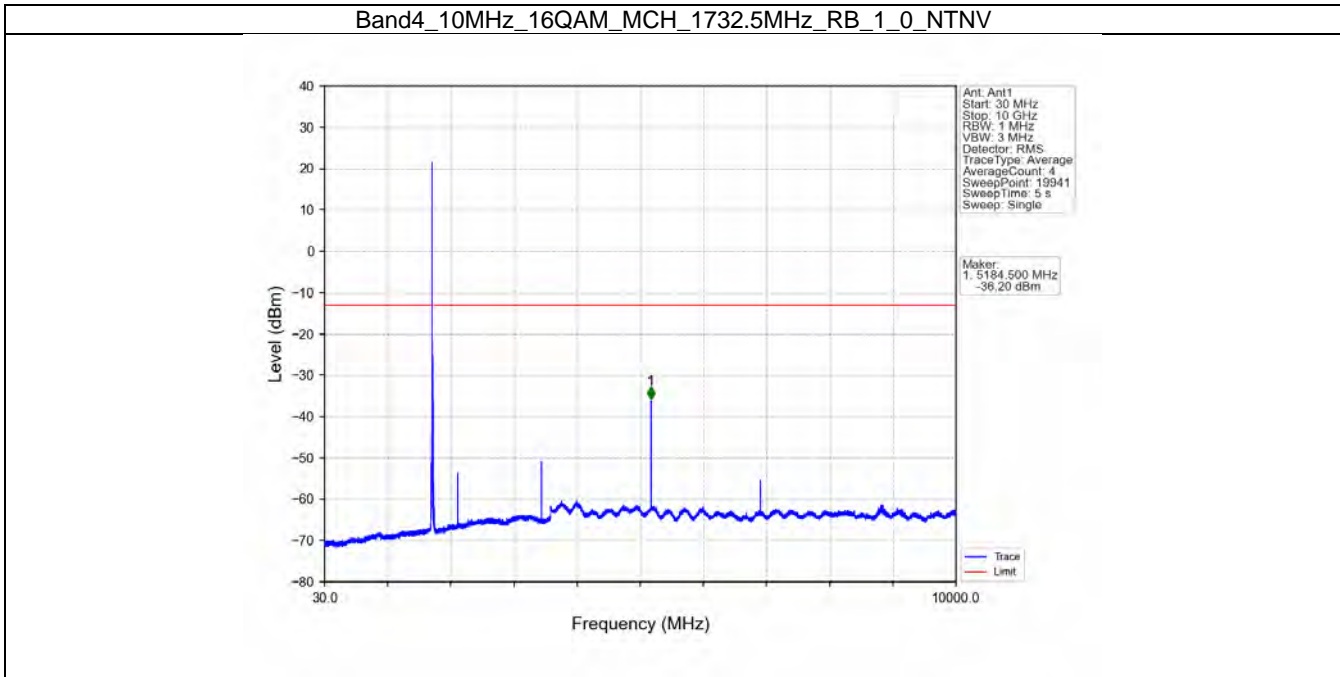


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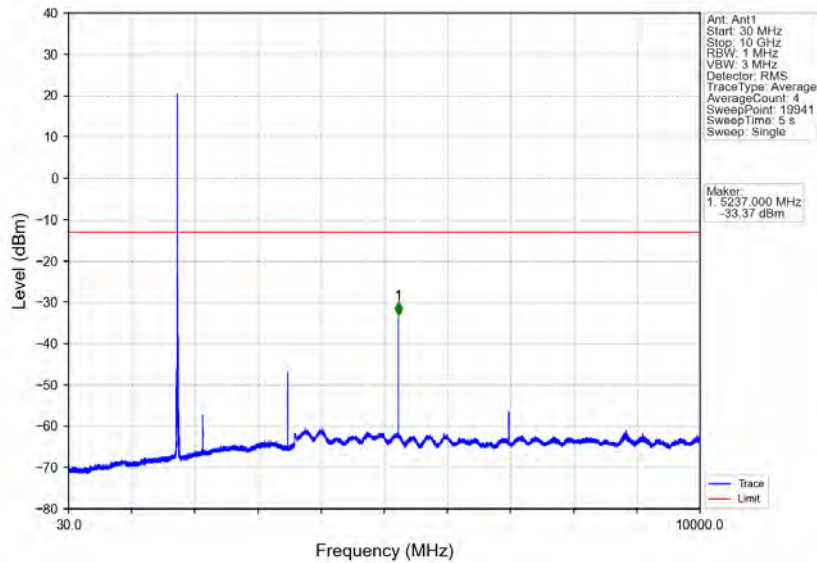
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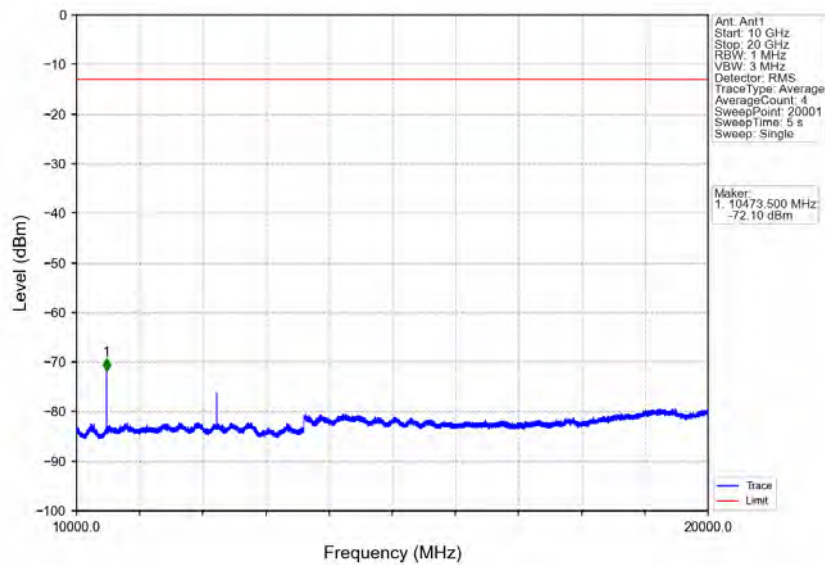
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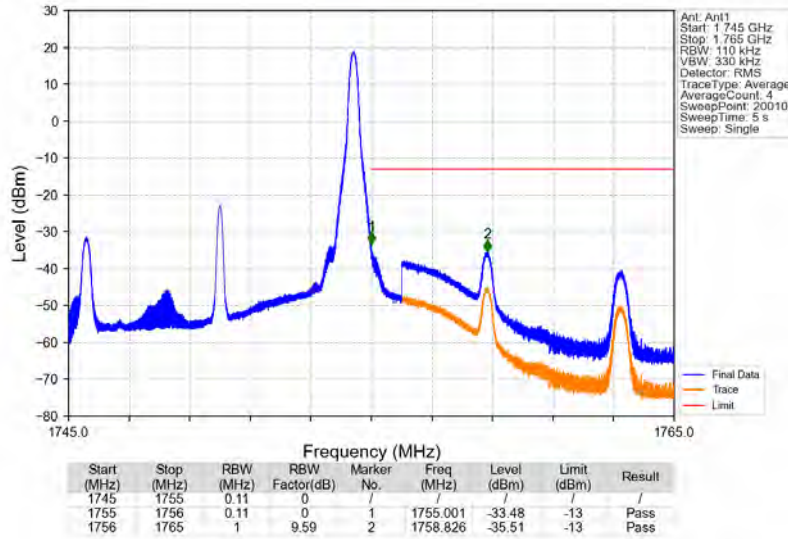
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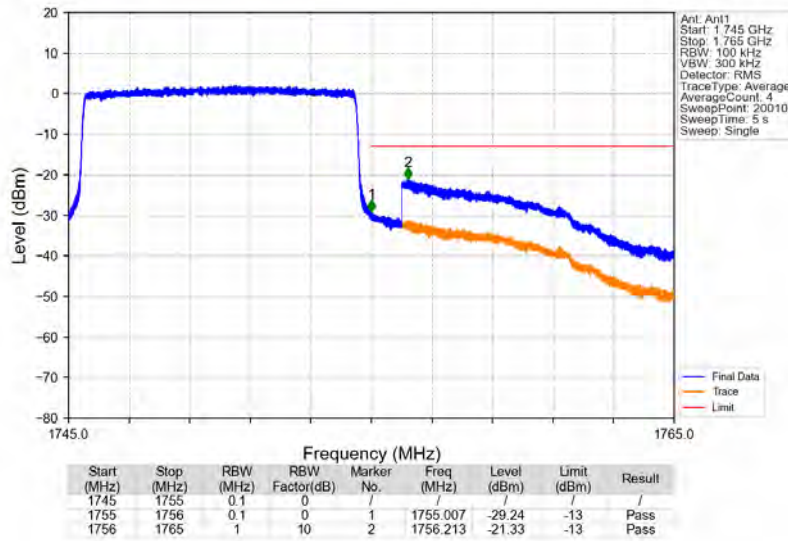
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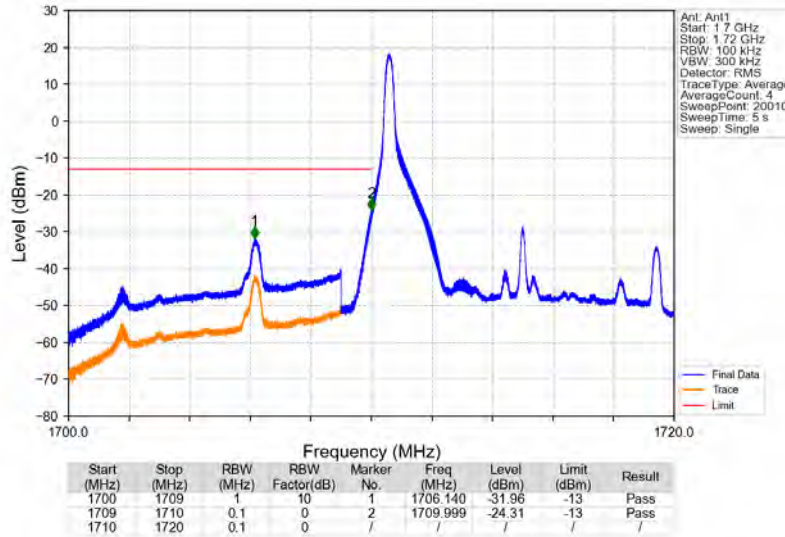
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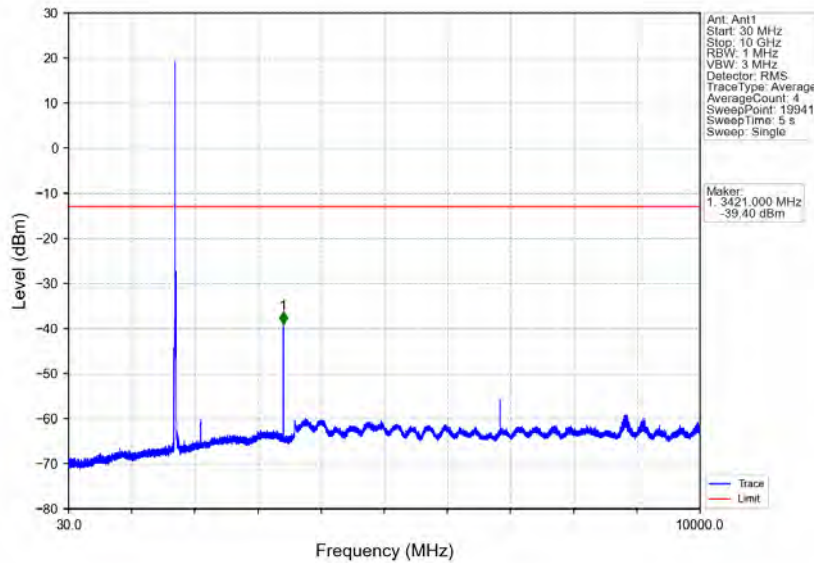
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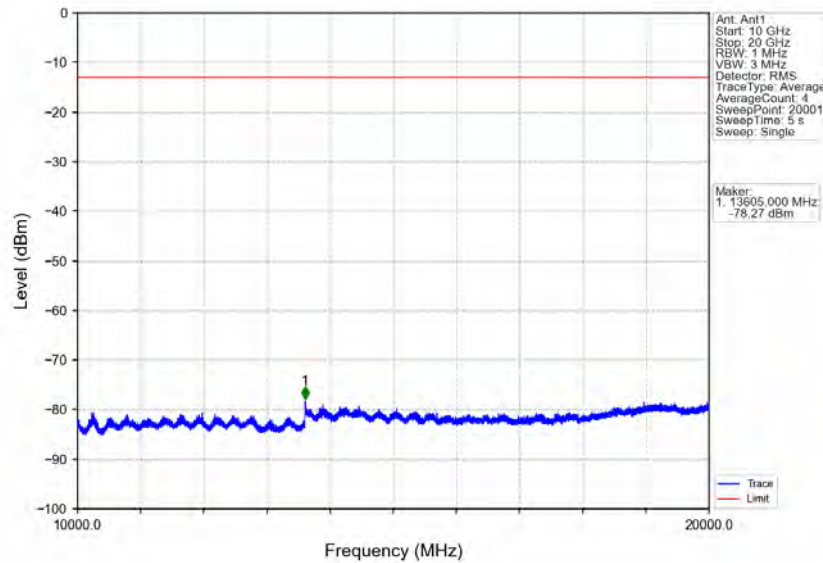
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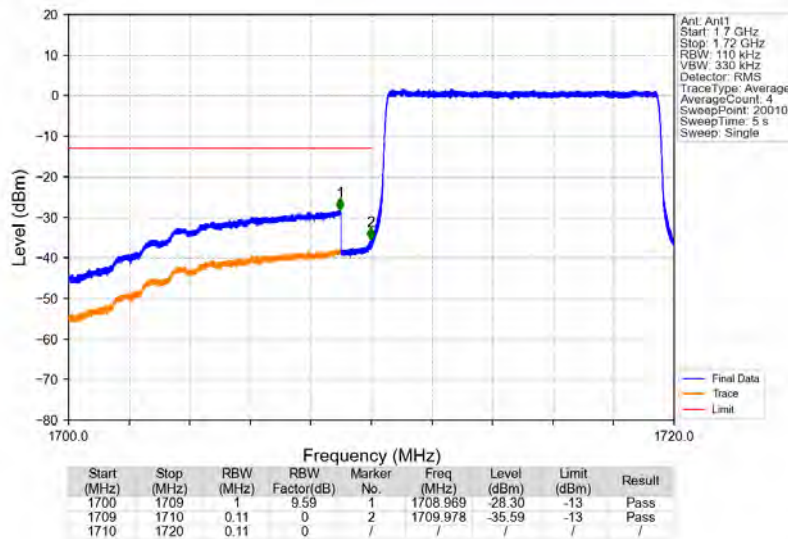


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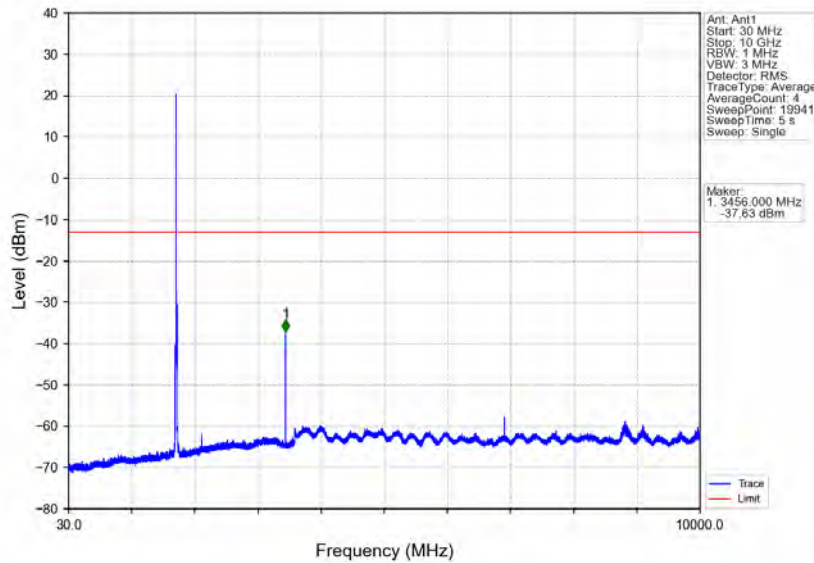
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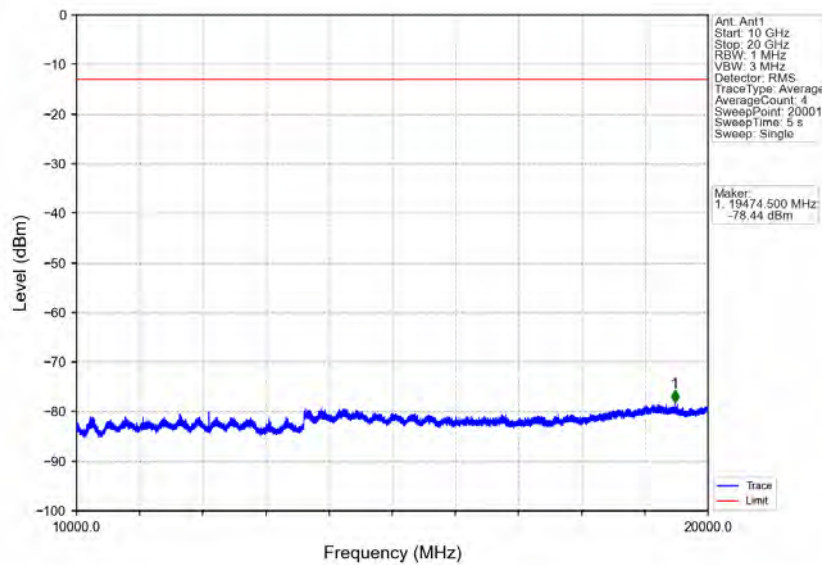
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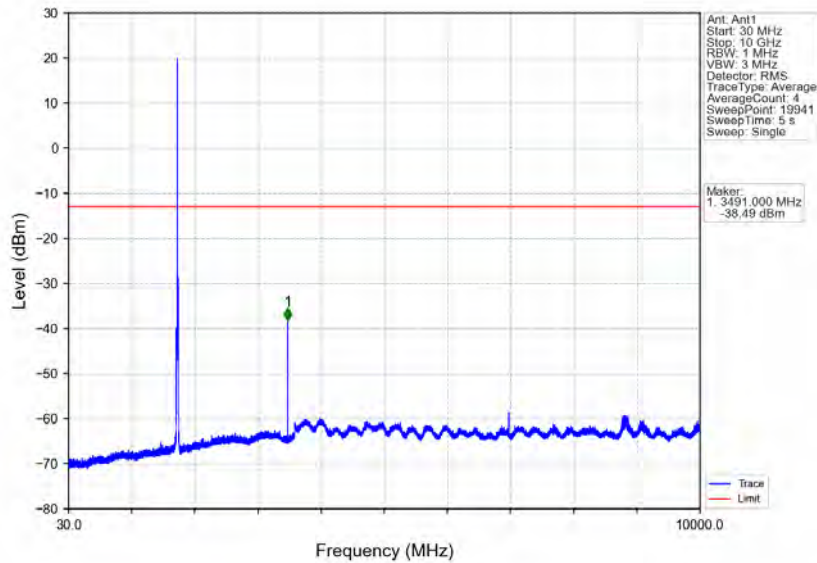
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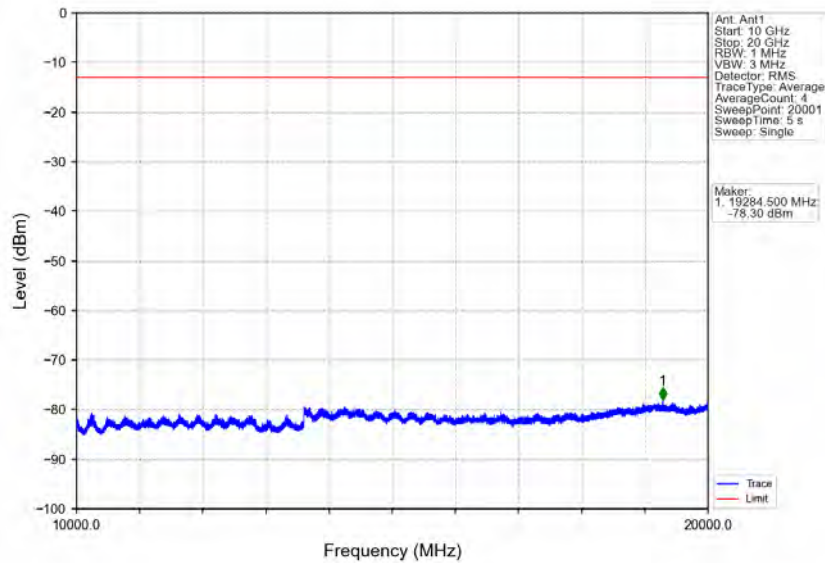
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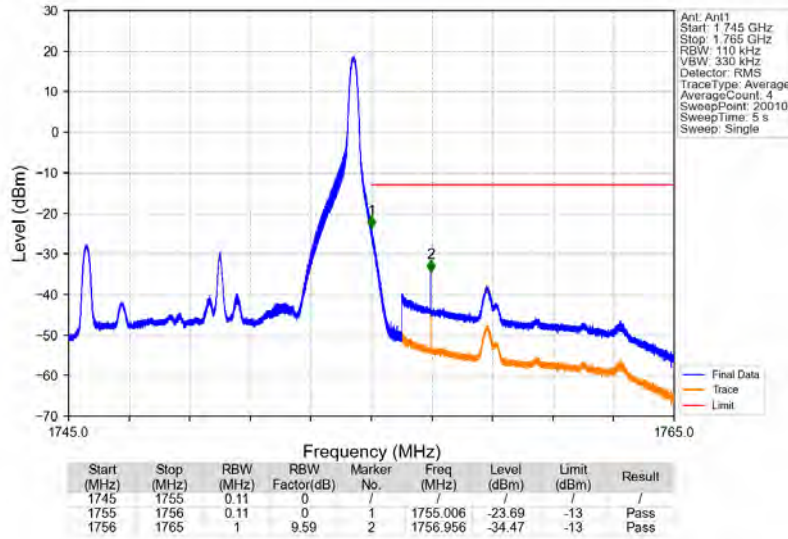
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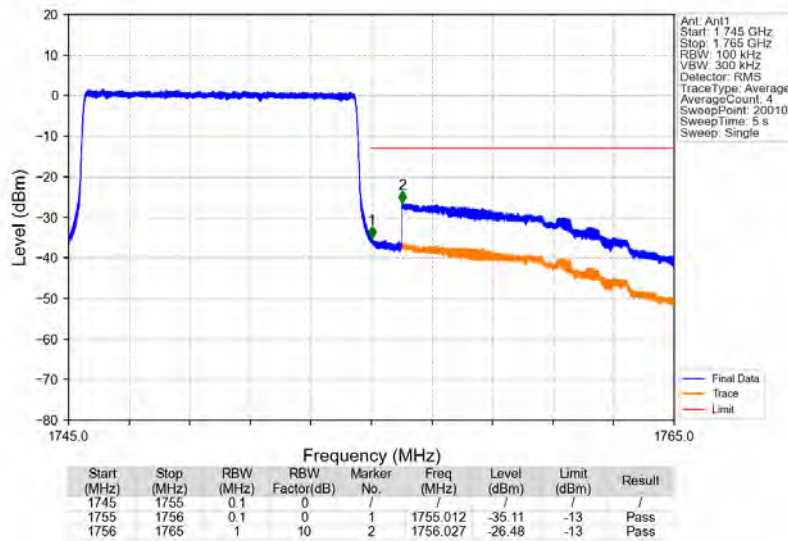
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6.5 B4_15MHz

6.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1717.5	1	0	Refer To Test Graph		Pass	
		75	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1747.5	1	0	Refer To Test Graph		Pass
				74	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	
		1747.5	1	0	Refer To Test Graph		Pass
				74	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	
		1747.5	1	0	Refer To Test Graph		Pass
				74	Refer To Test Graph		Pass
			75	0	Refer To Test Graph		Pass

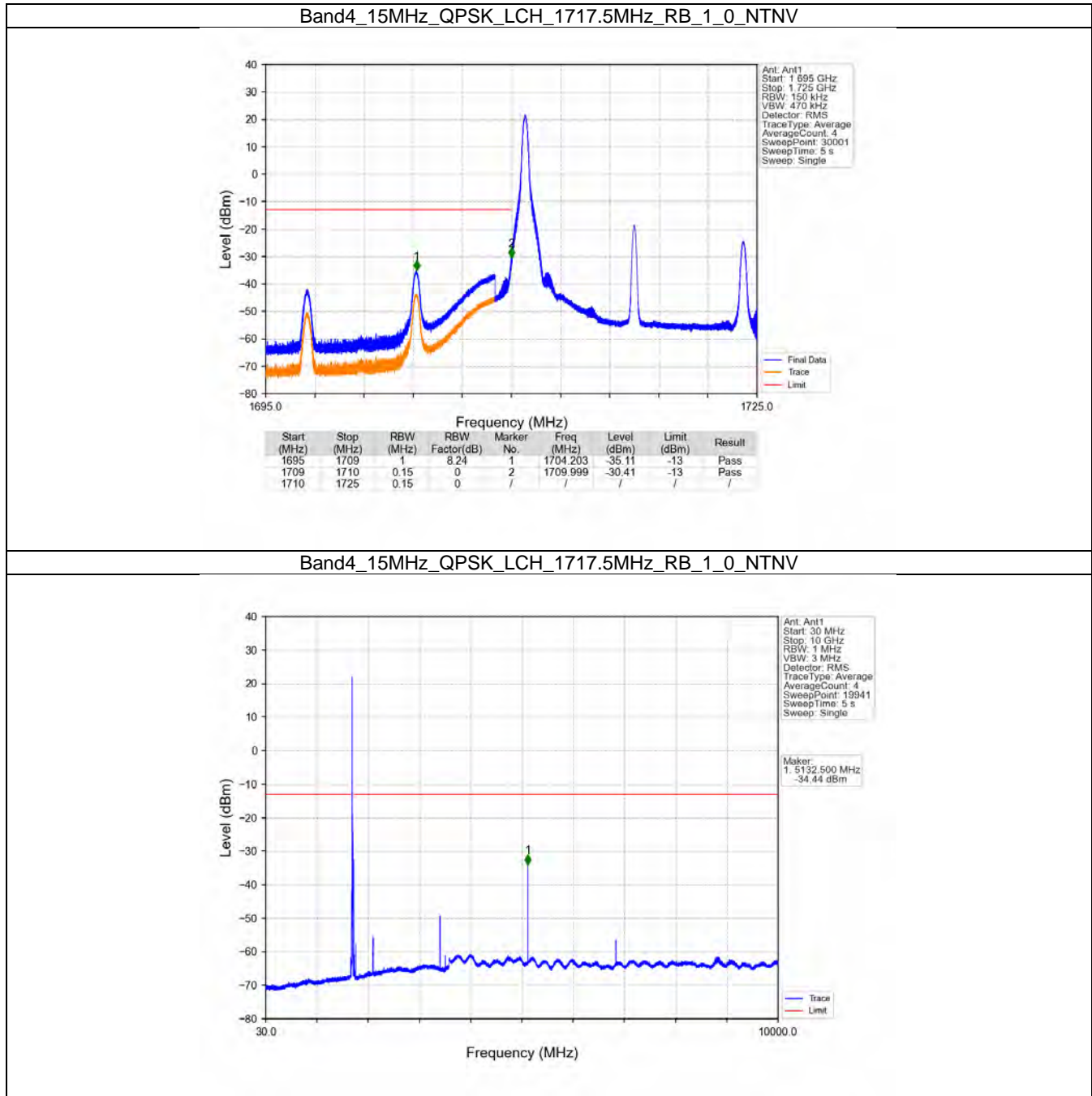


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6.5.2 Test Graph



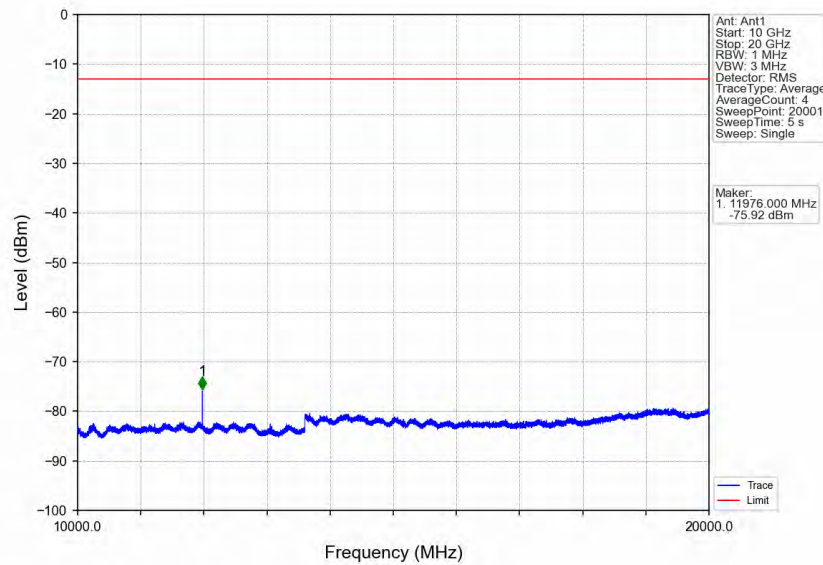
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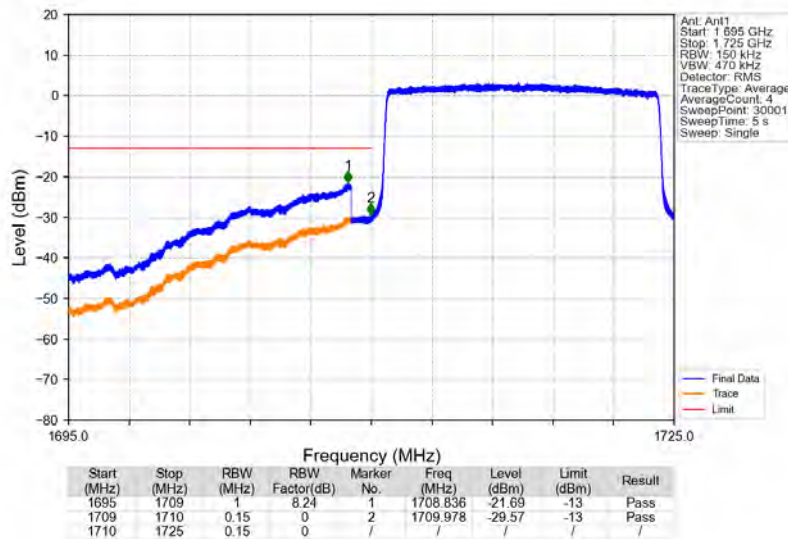
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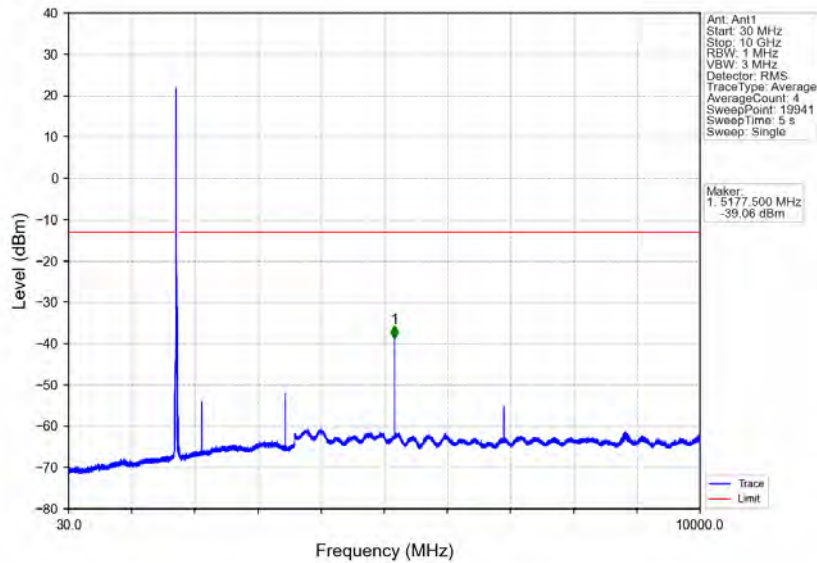
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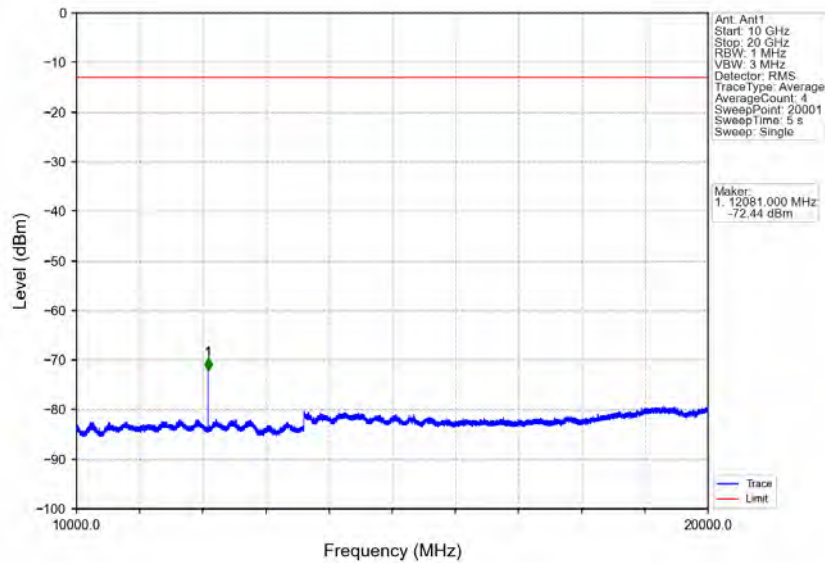
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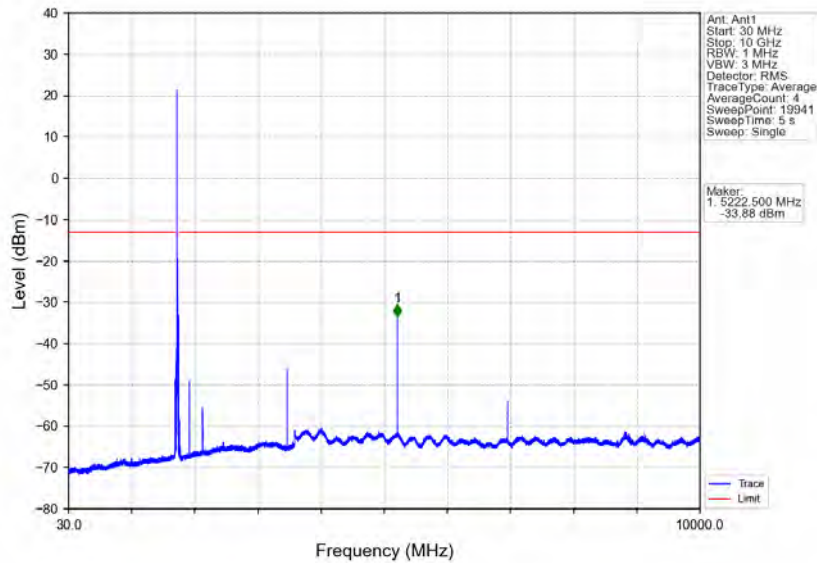
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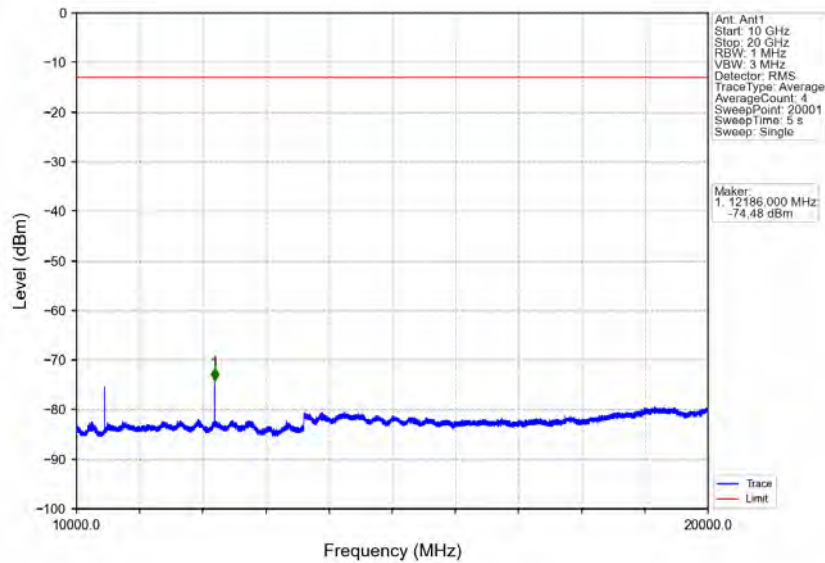
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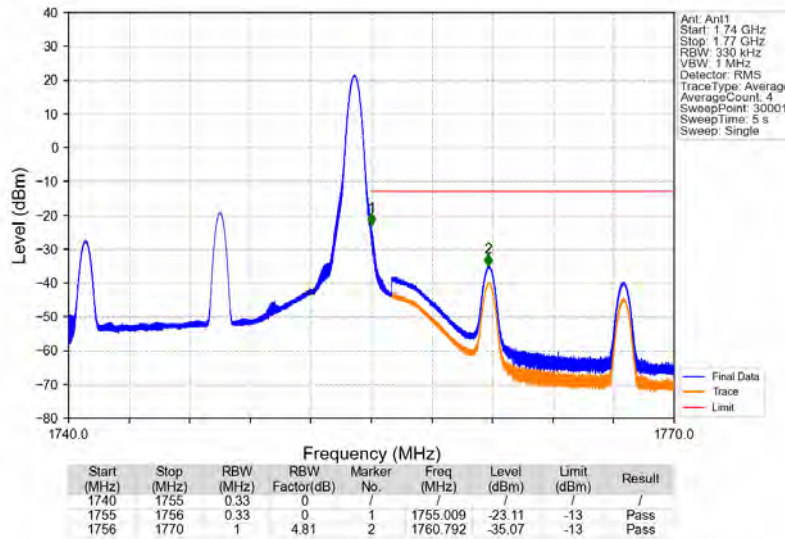
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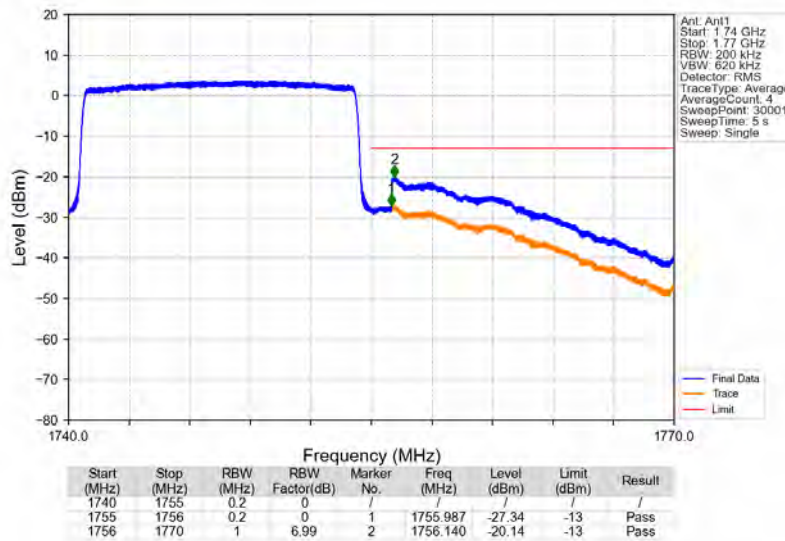
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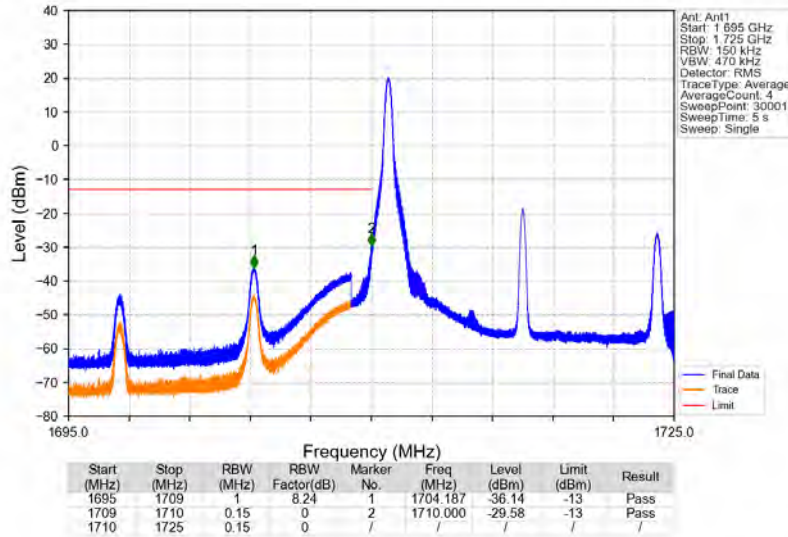
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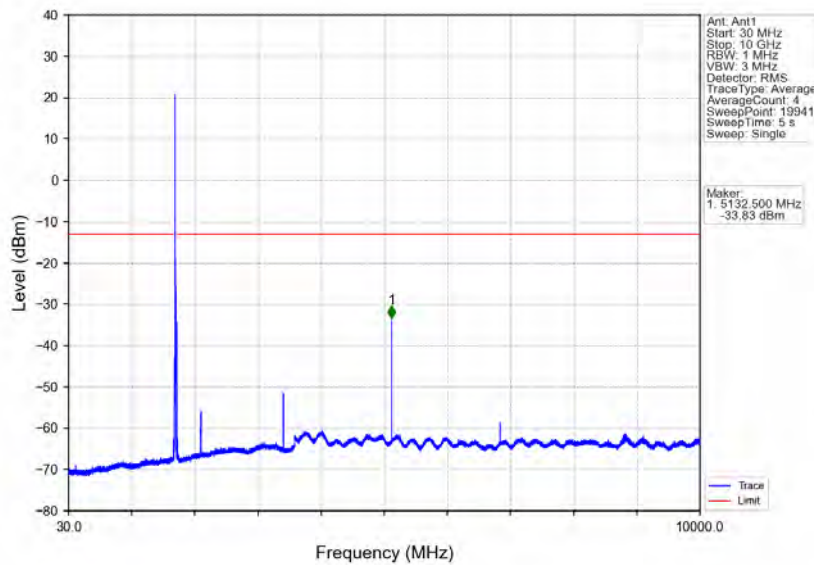
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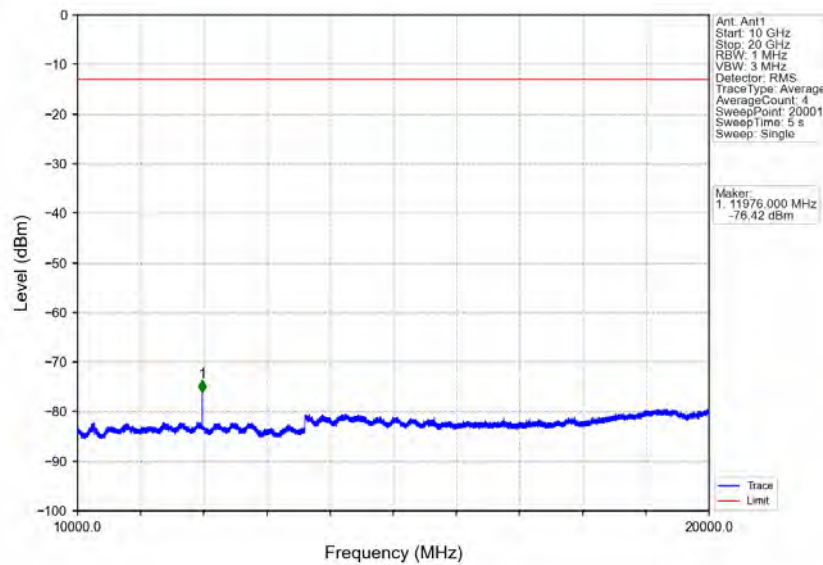
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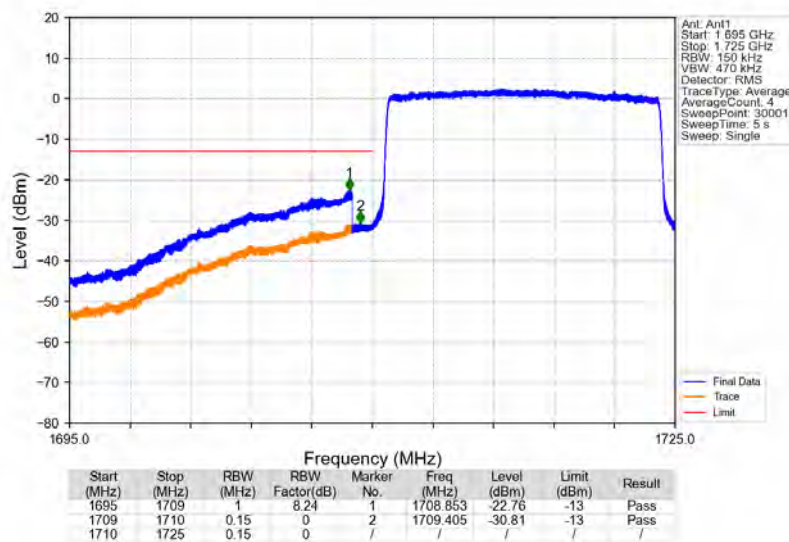


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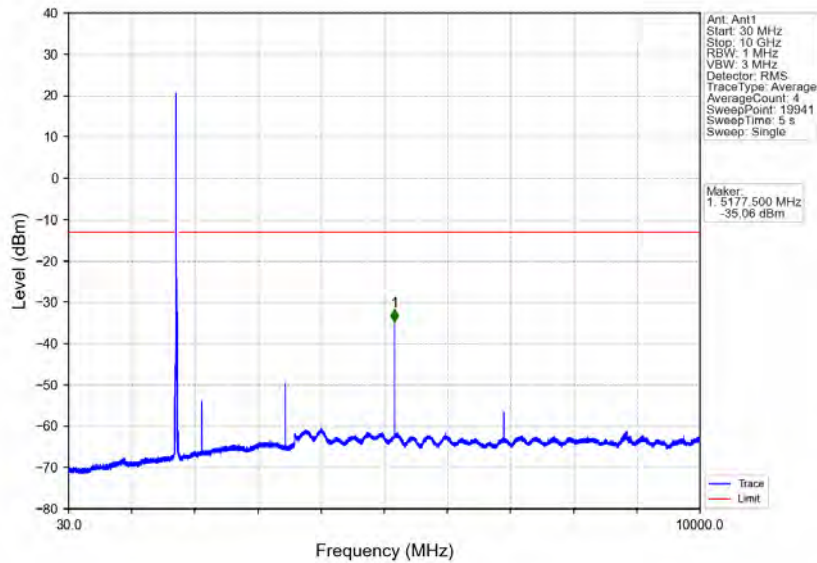
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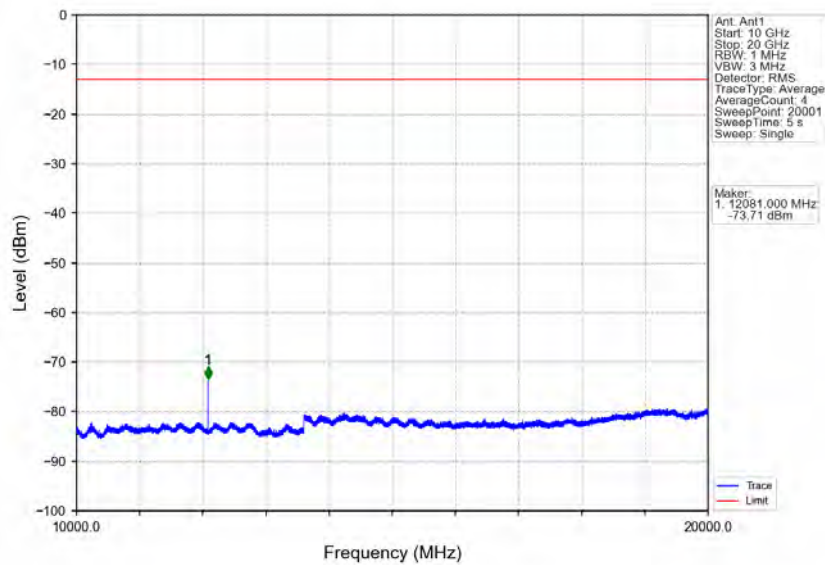
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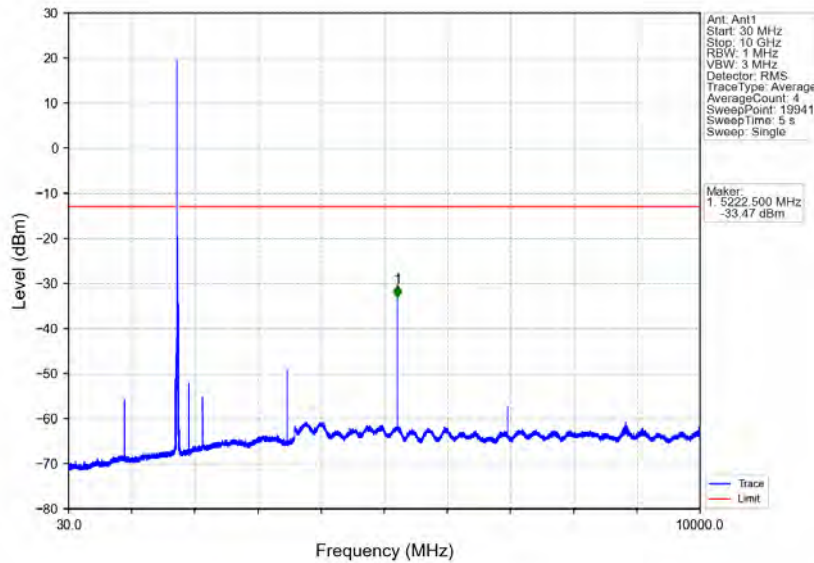
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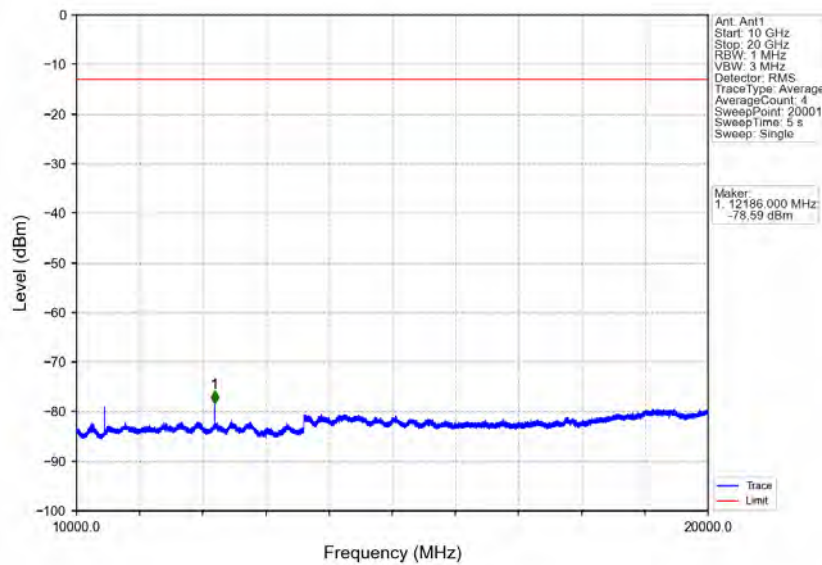
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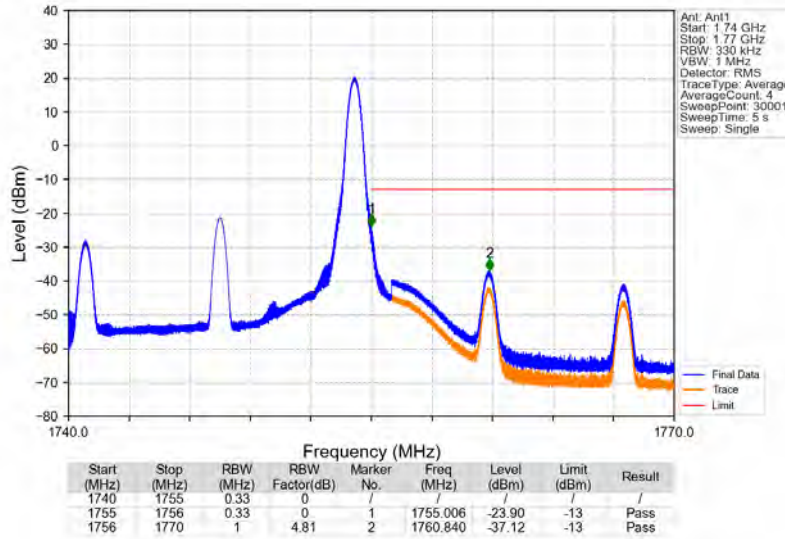
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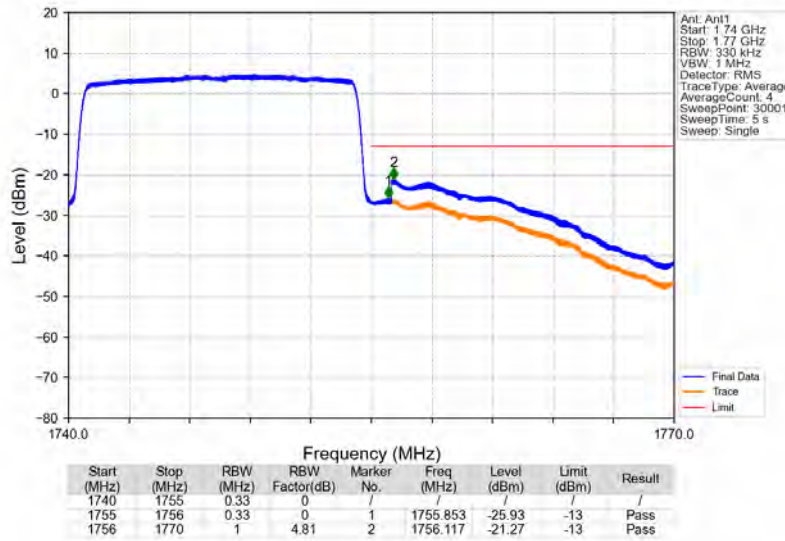
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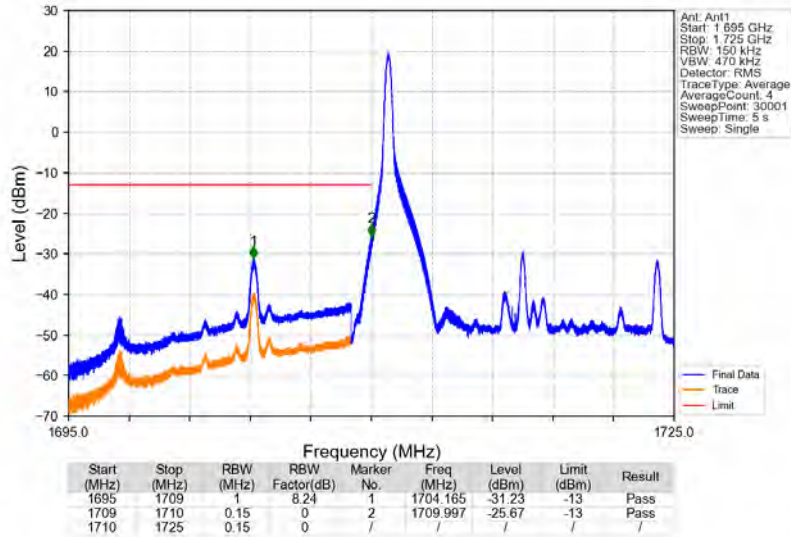
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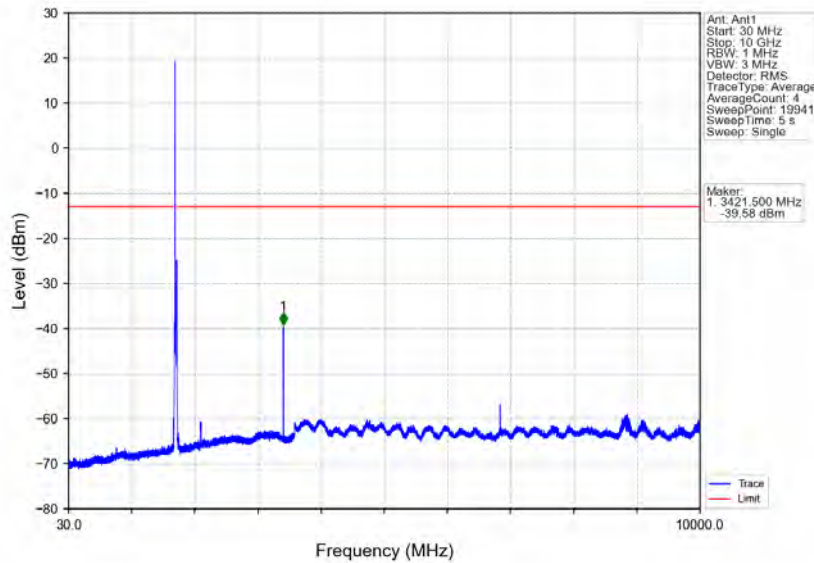
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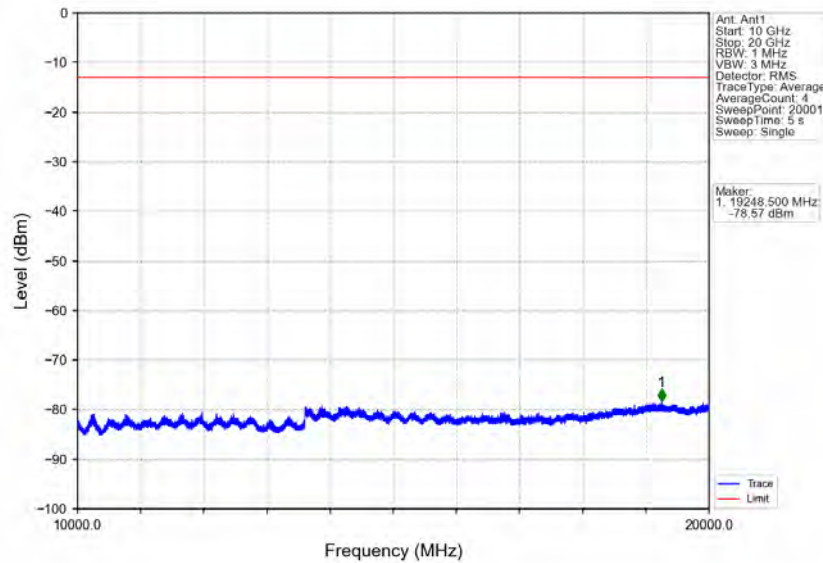
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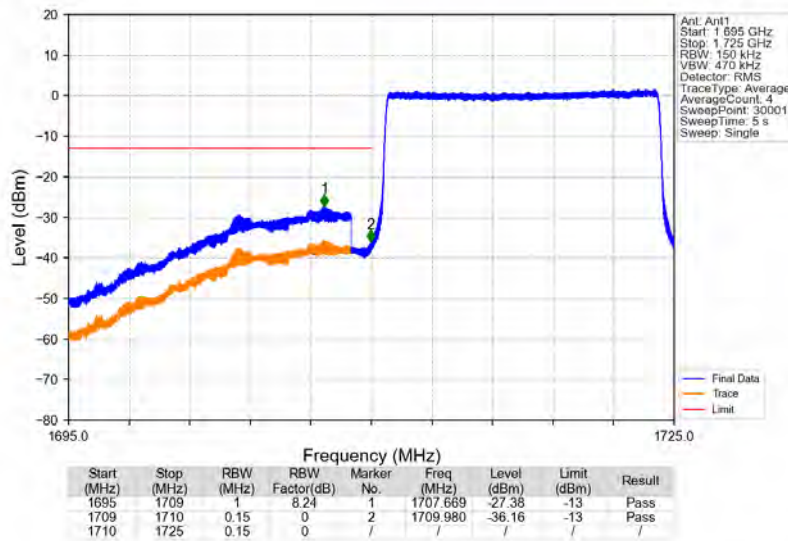


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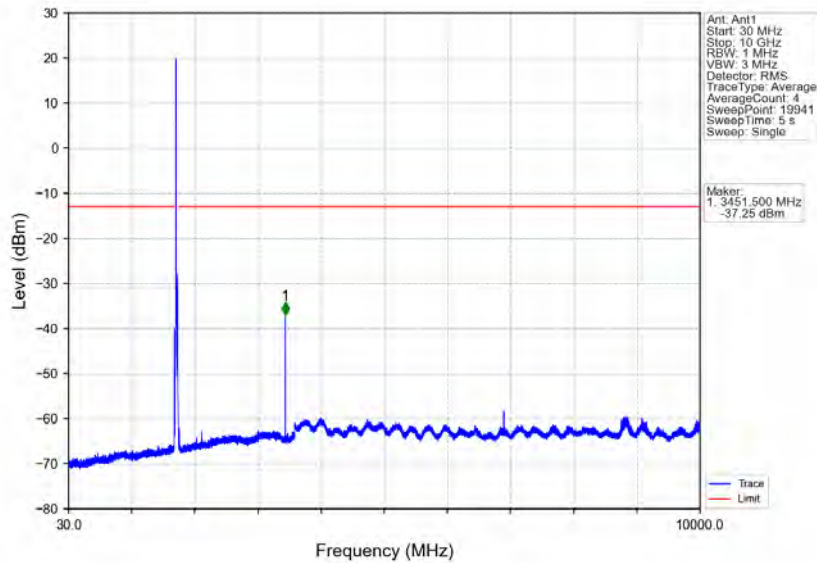
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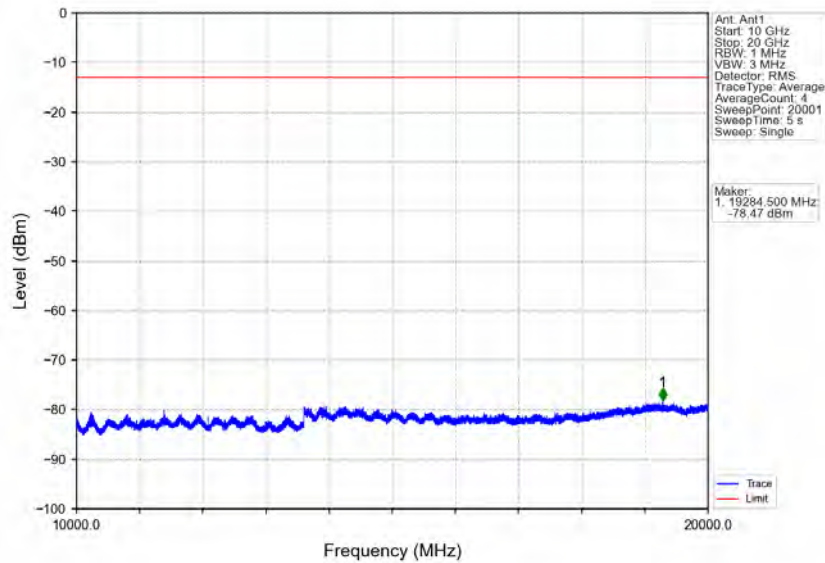
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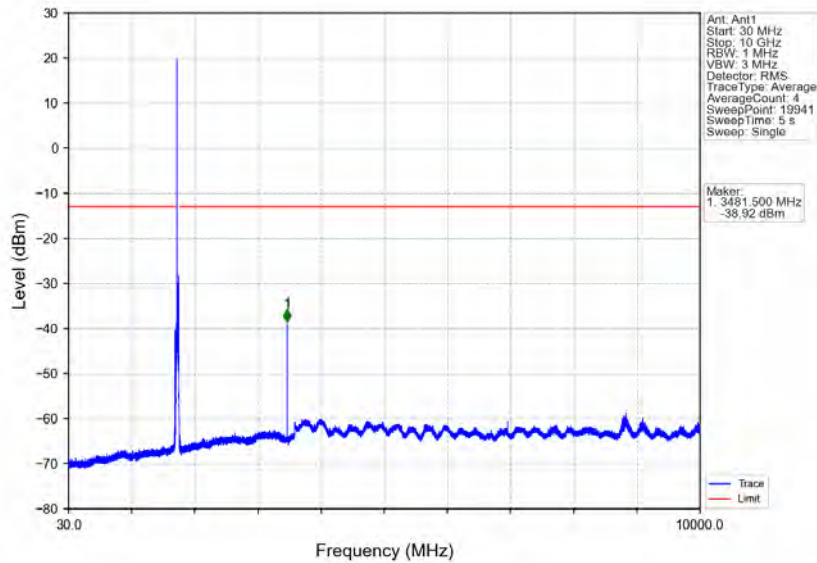
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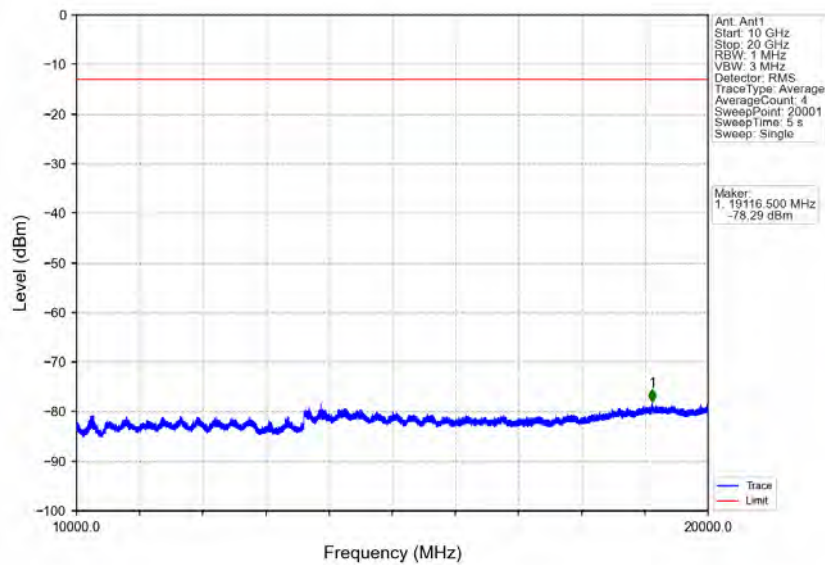
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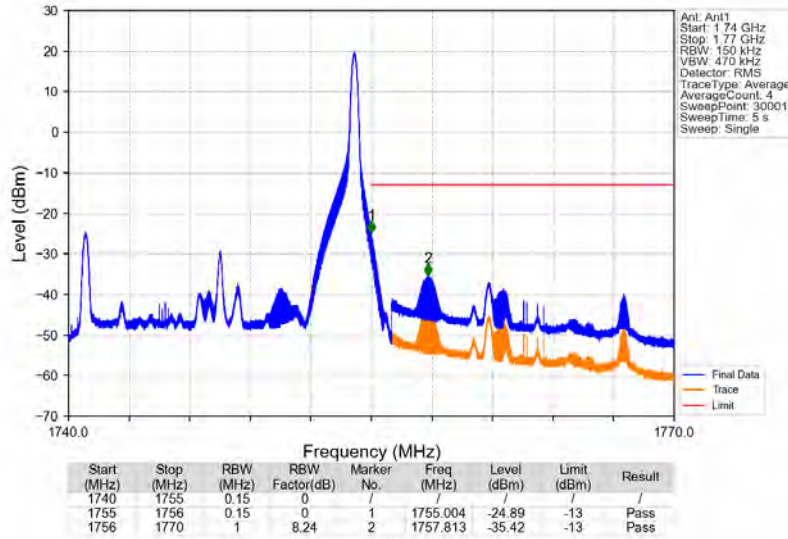
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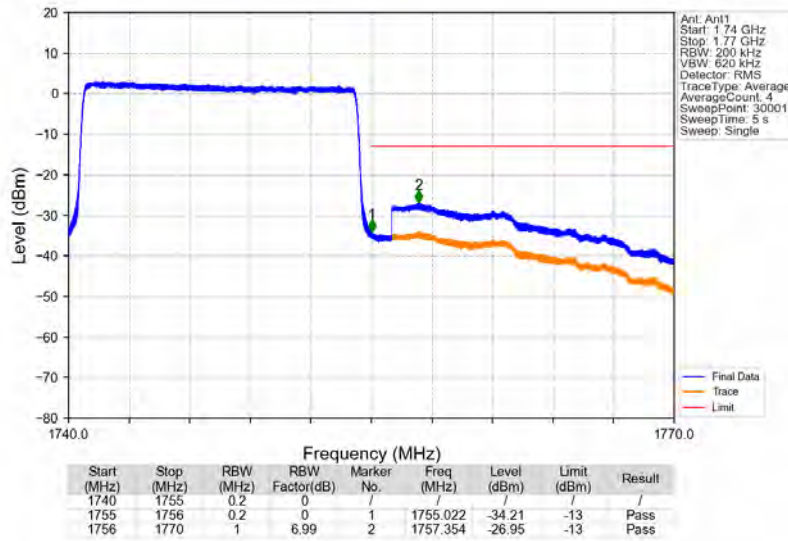
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6.6 B4_20MHz

6.6.1 Test Result

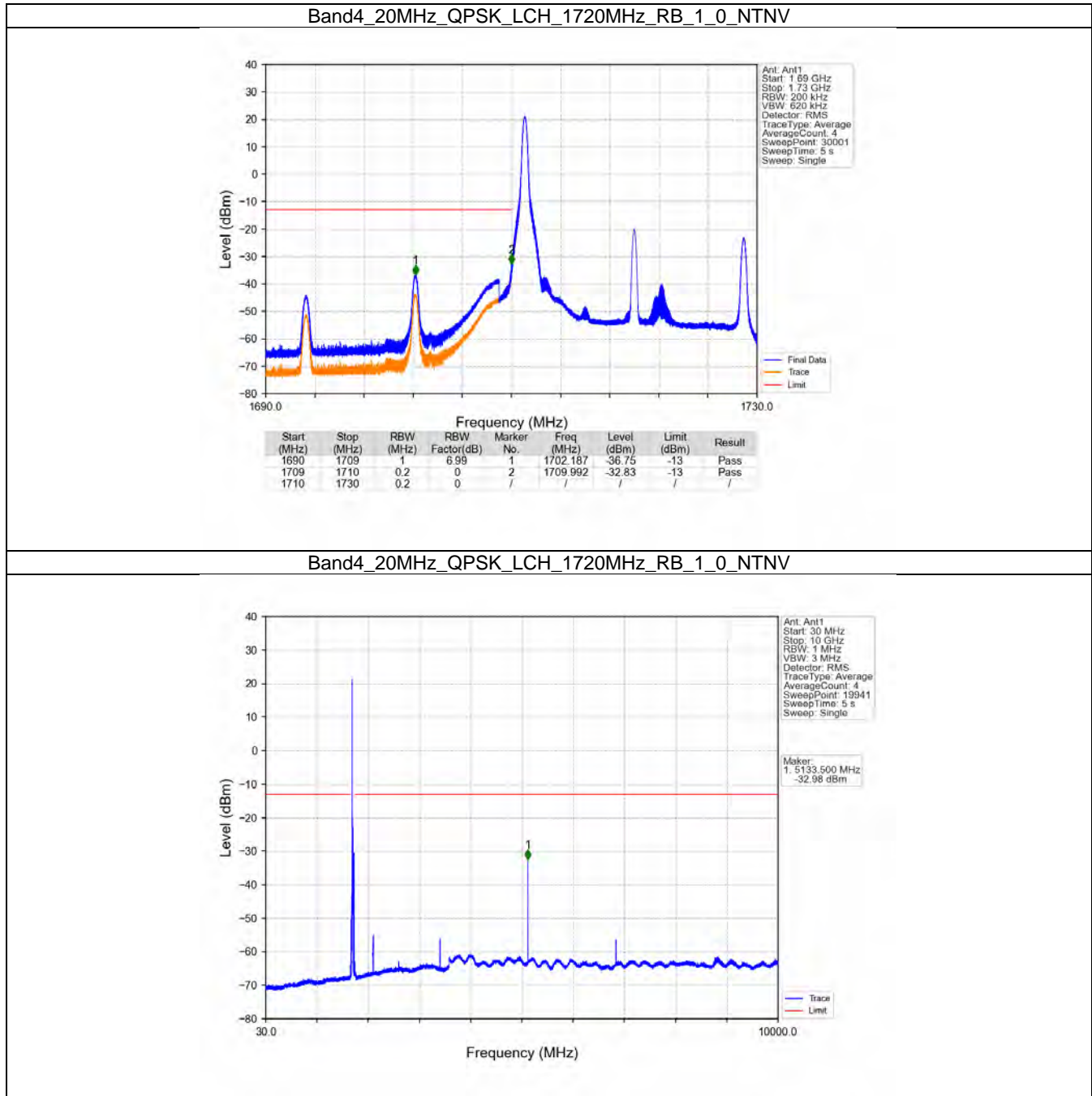
Band: 4 / Bandwidth: 20MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1720	1	0	Refer To Test Graph		Pass	
		100	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1745	1	0	Refer To Test Graph		Pass
				99	Refer 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	
		1745	1	0	Refer To Test Graph		Pass
				99	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	
		1745	1	0	Refer To Test Graph		Pass
				99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass	



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6.6.2 Test Graph



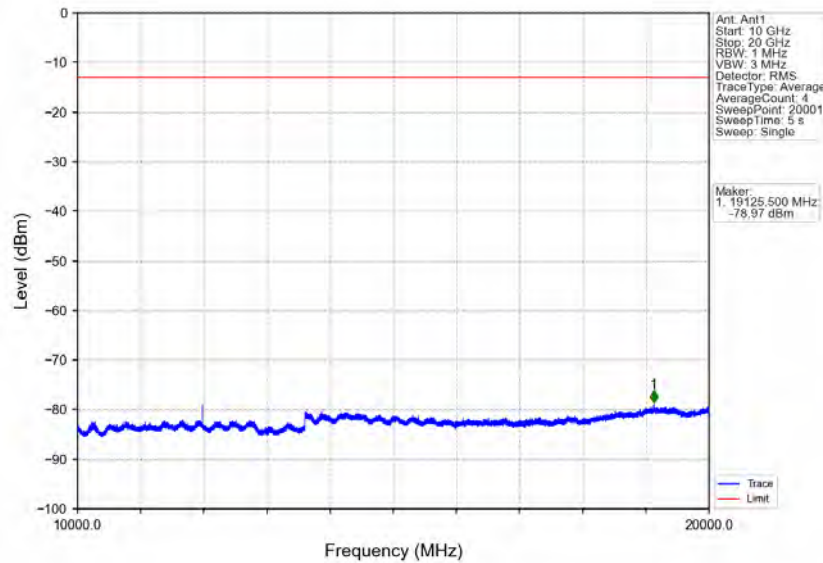
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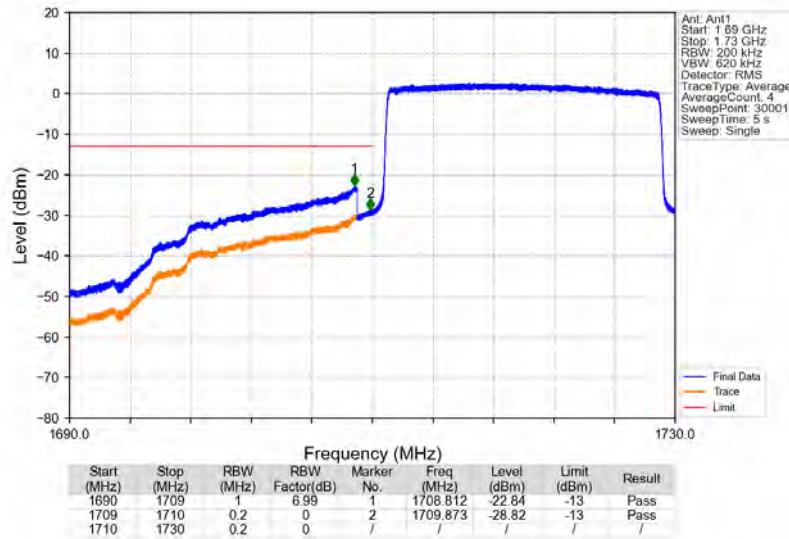
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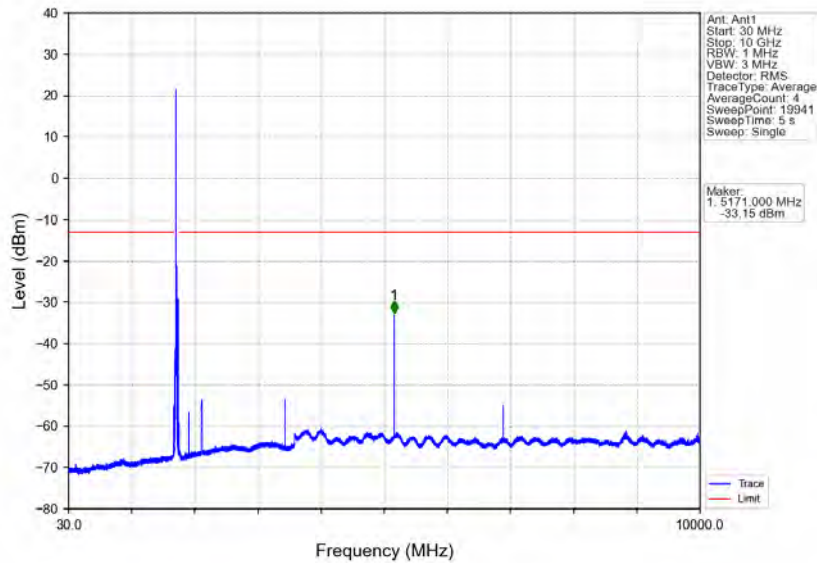
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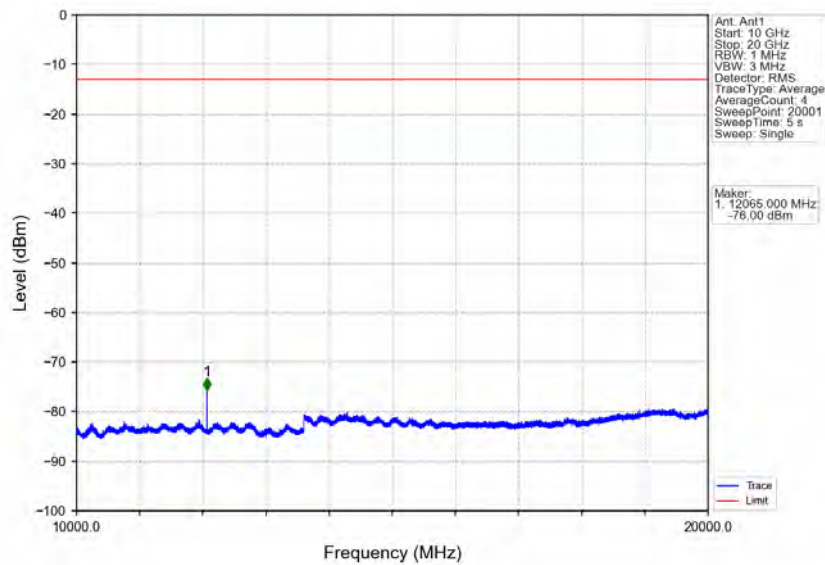
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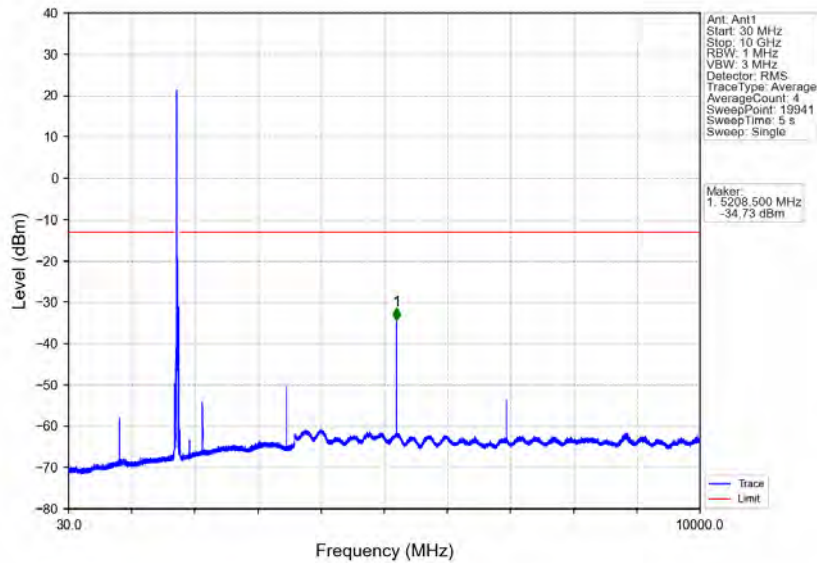
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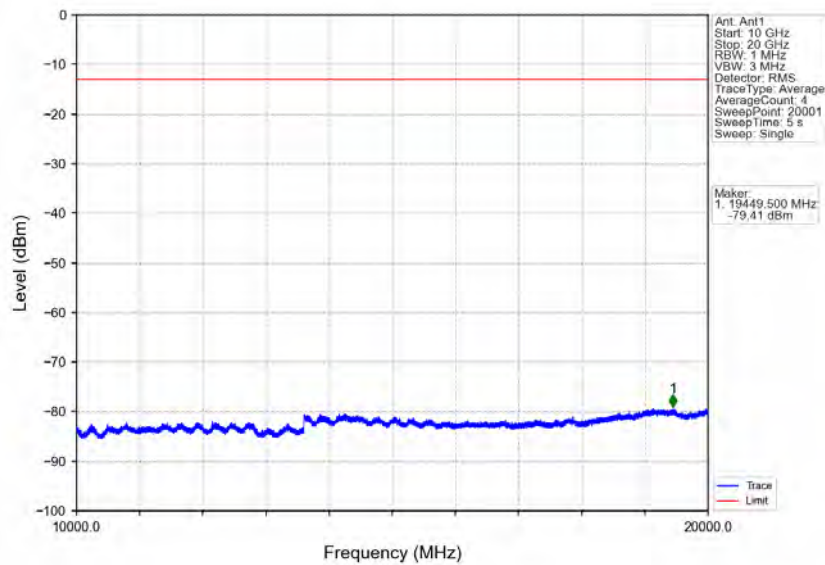
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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



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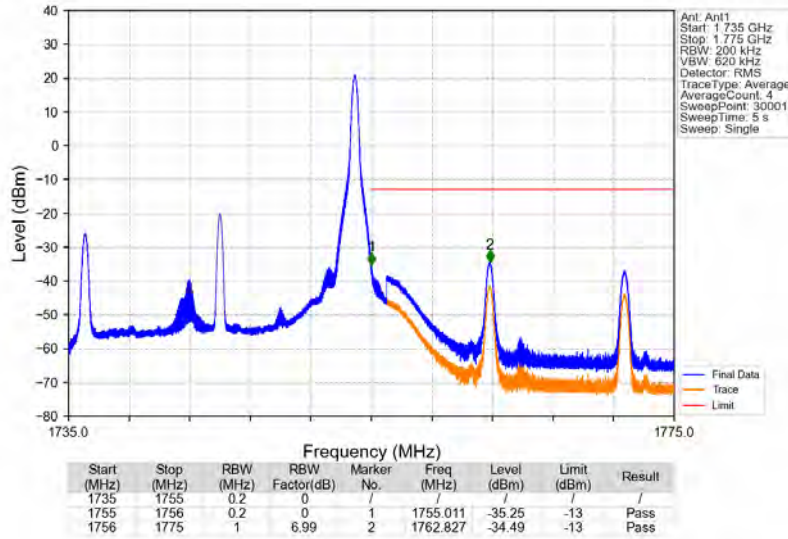
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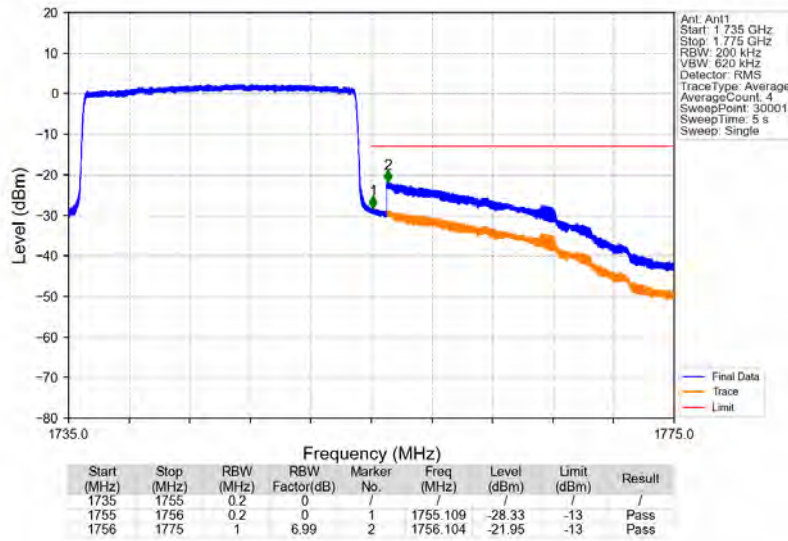
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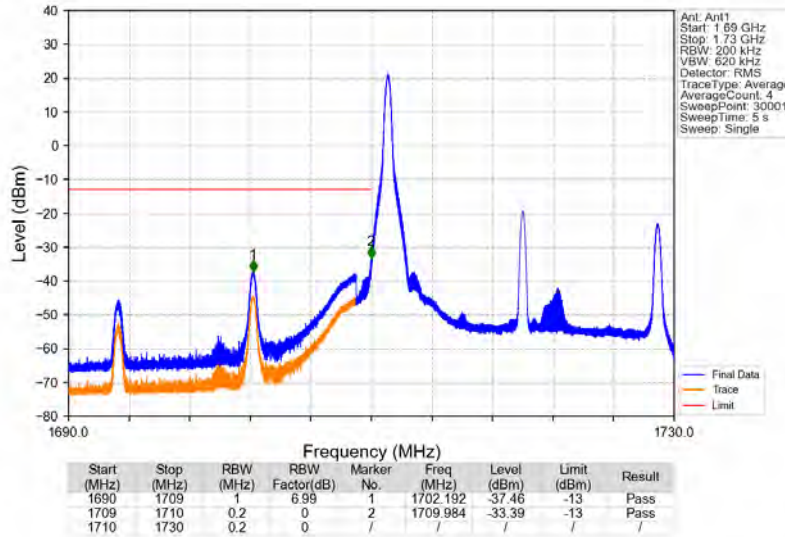
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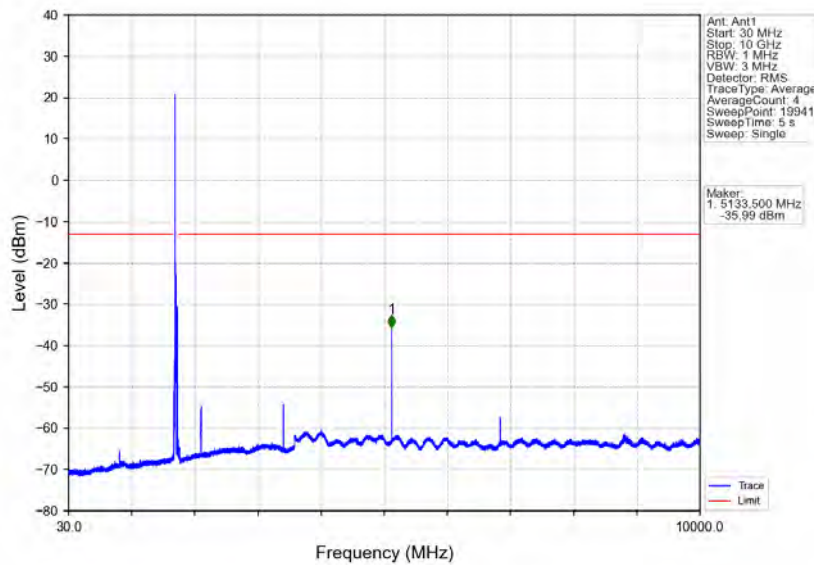
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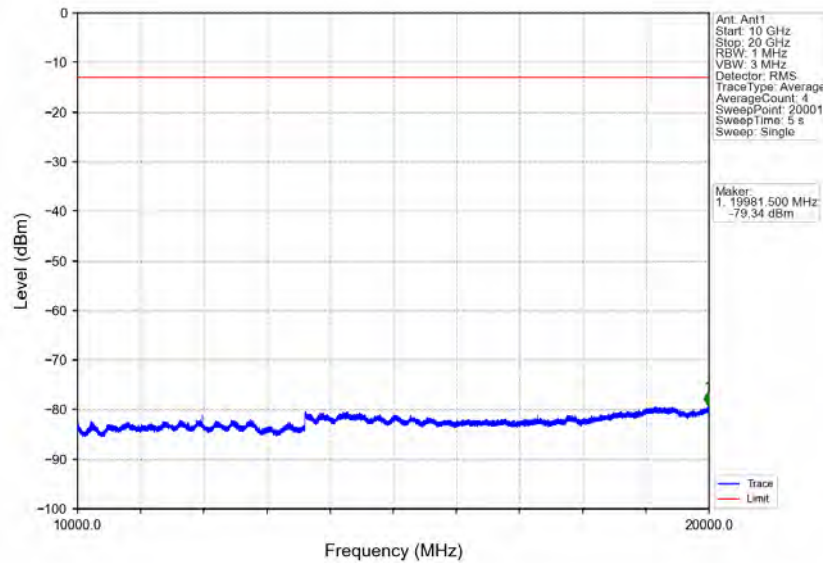
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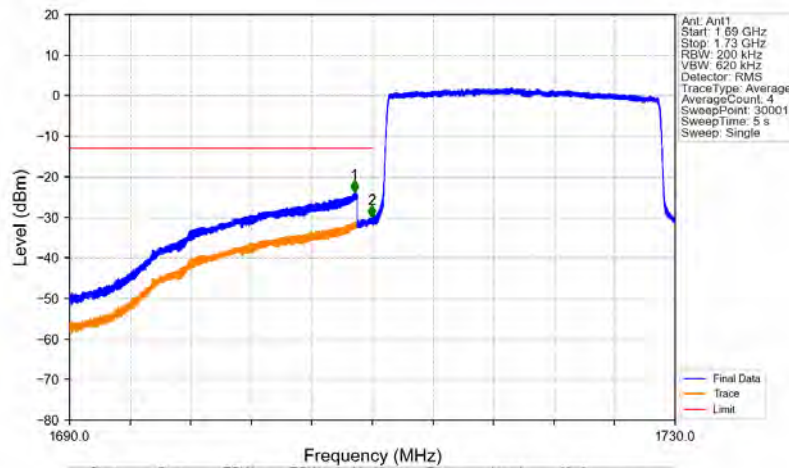


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Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	6.99	1	1708.796	-24.00	-13	Pass
1709	1710	0.2	0	2	1709.947	-30.16	-13	Pass
1710	1730	0.2	0	/	/	/	/	/



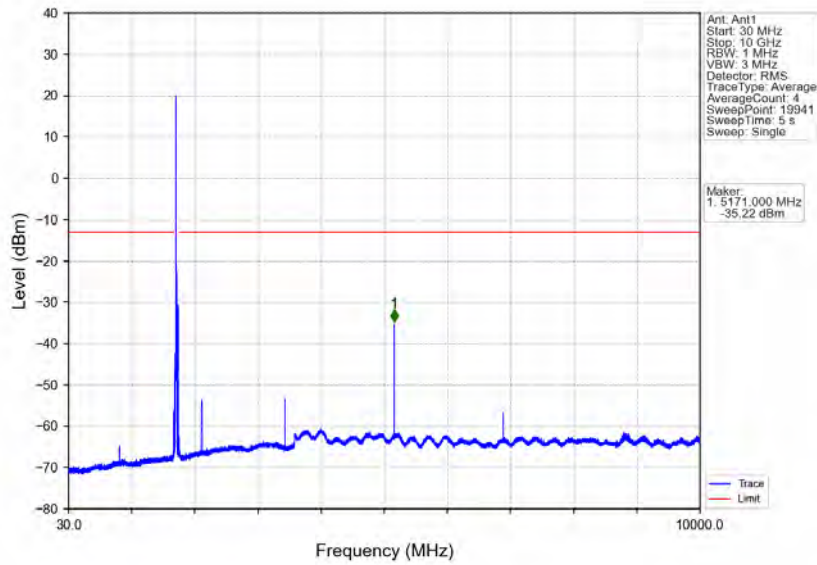
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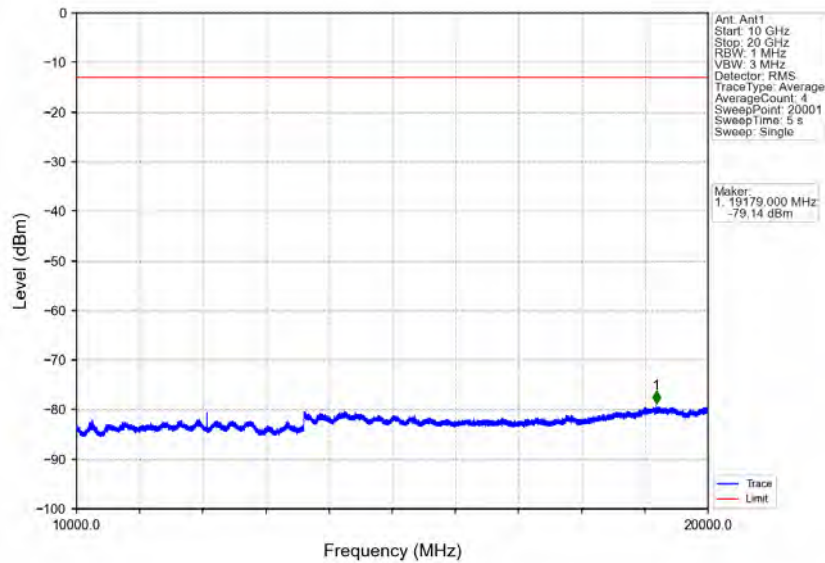
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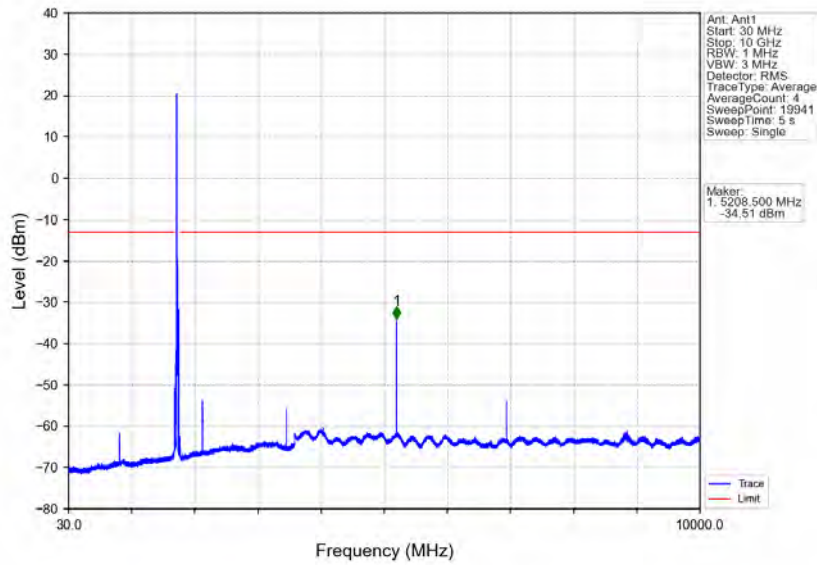
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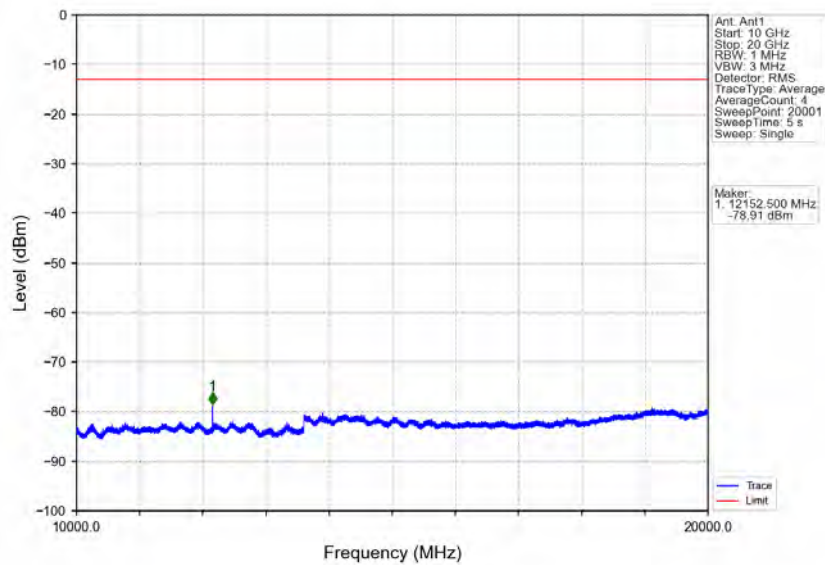
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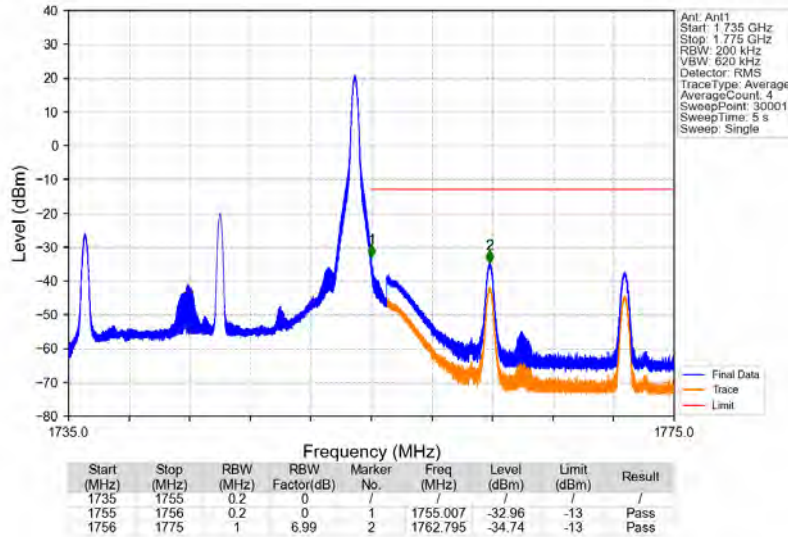
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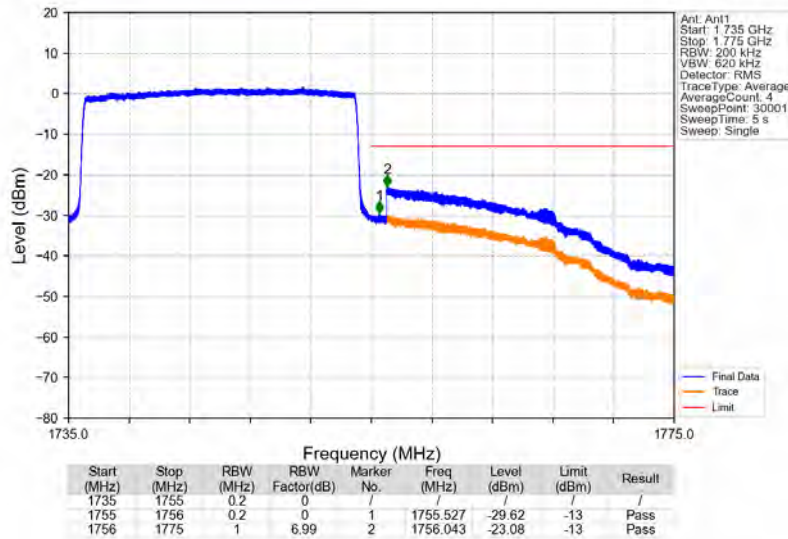
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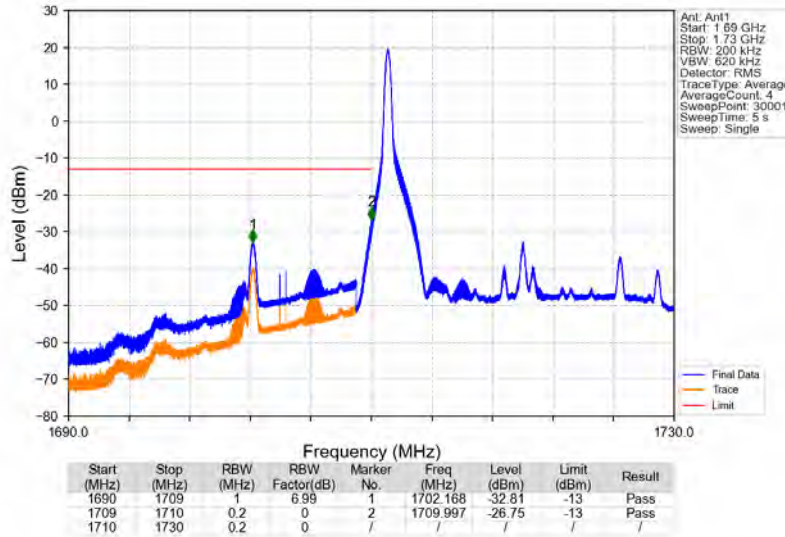
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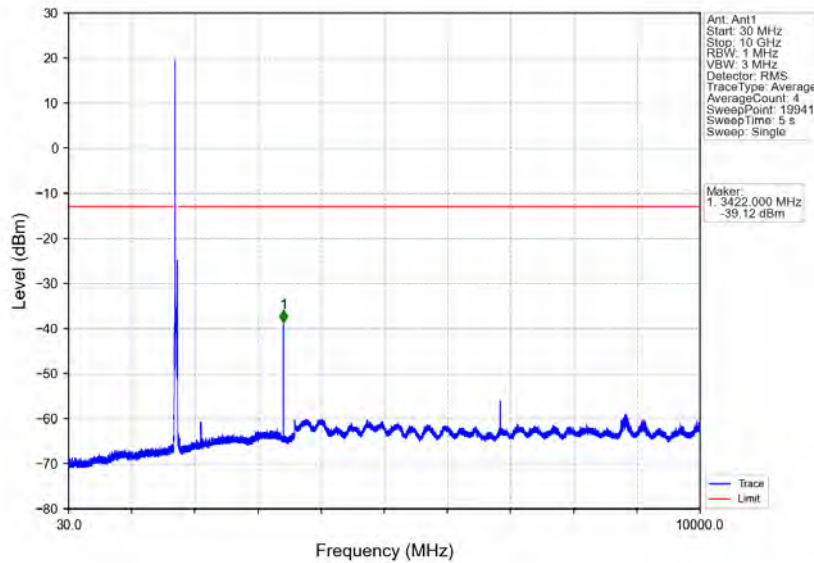
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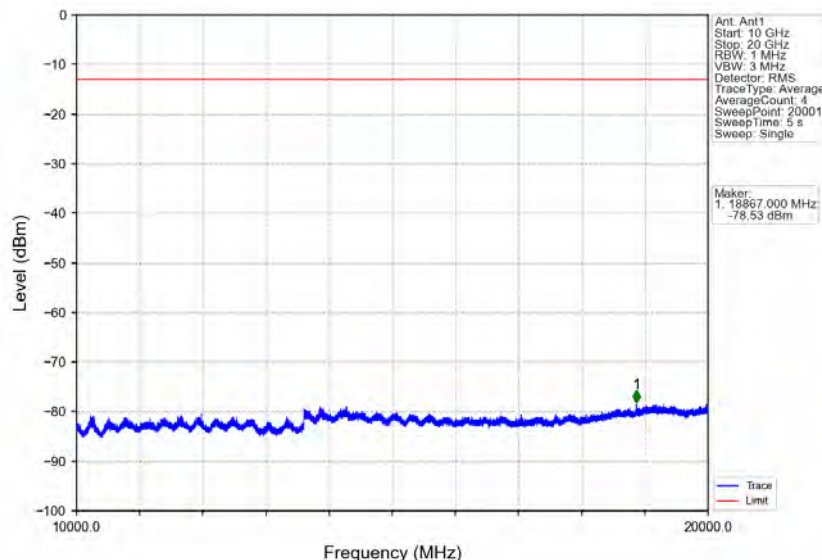
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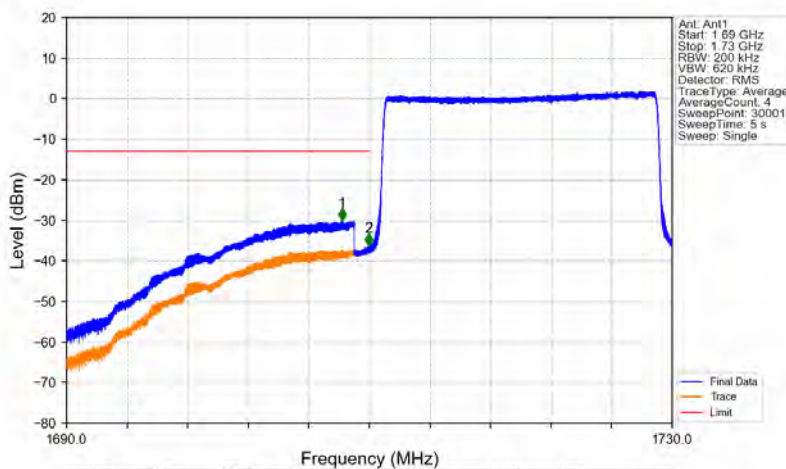


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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	6.99	1	1708.199	-30.15	-13	Pass
1709	1710	0.2	0	2	1709.953	-36.24	-13	Pass
1710	1730	0.2	0	/	/	/	/	/



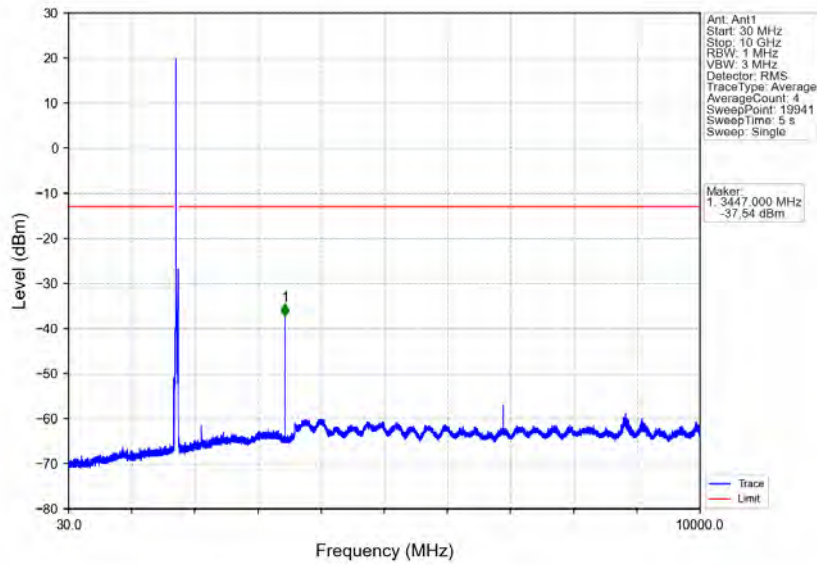
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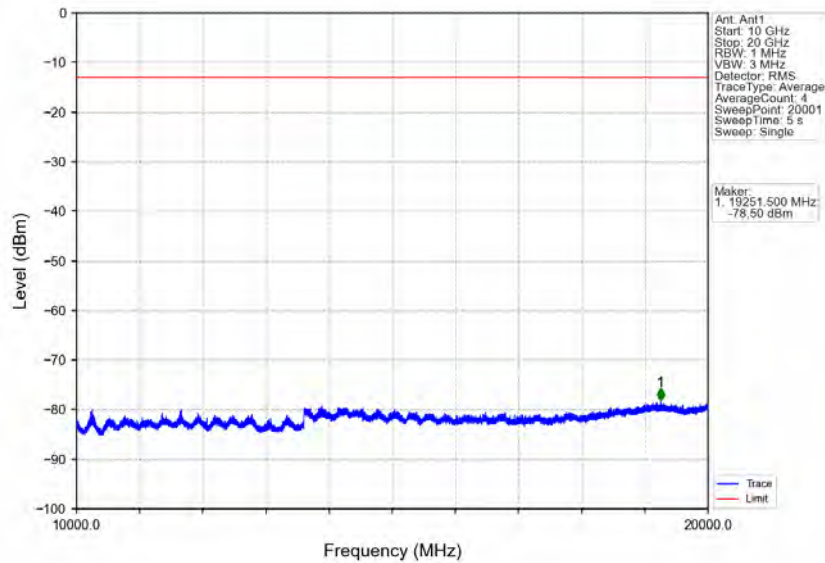
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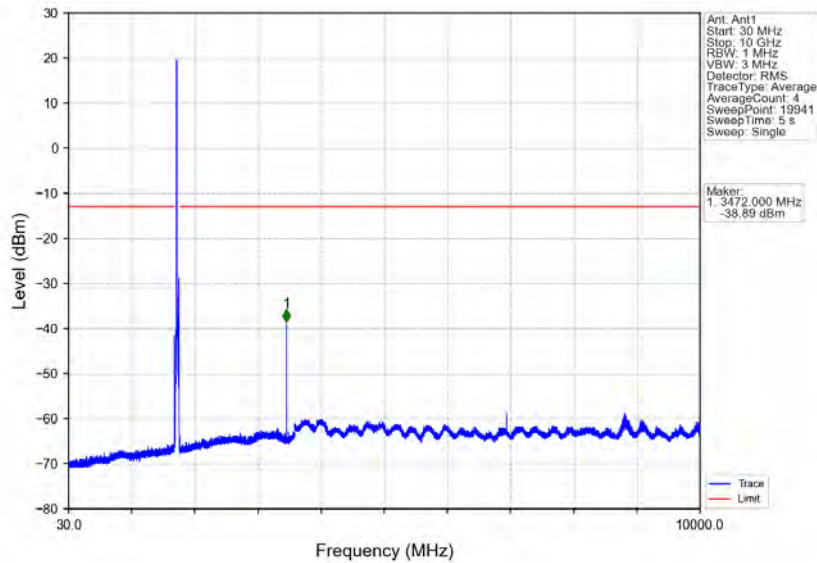
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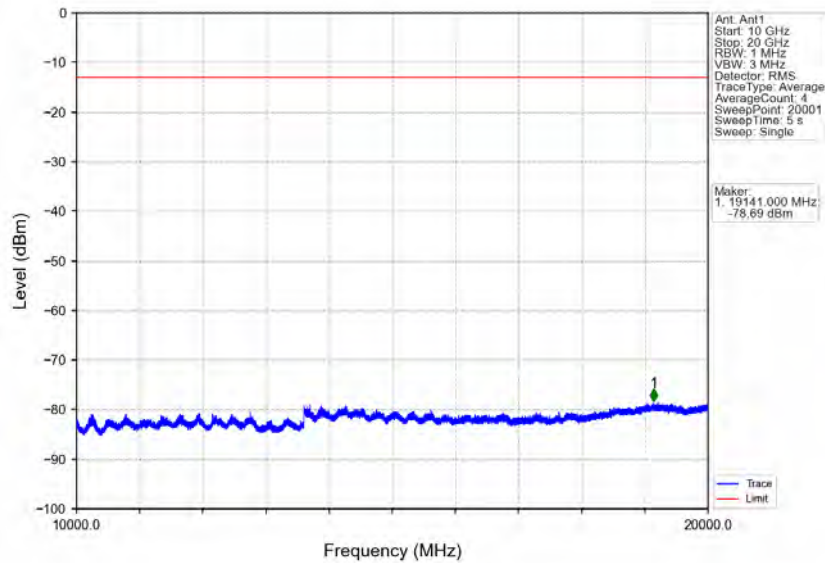


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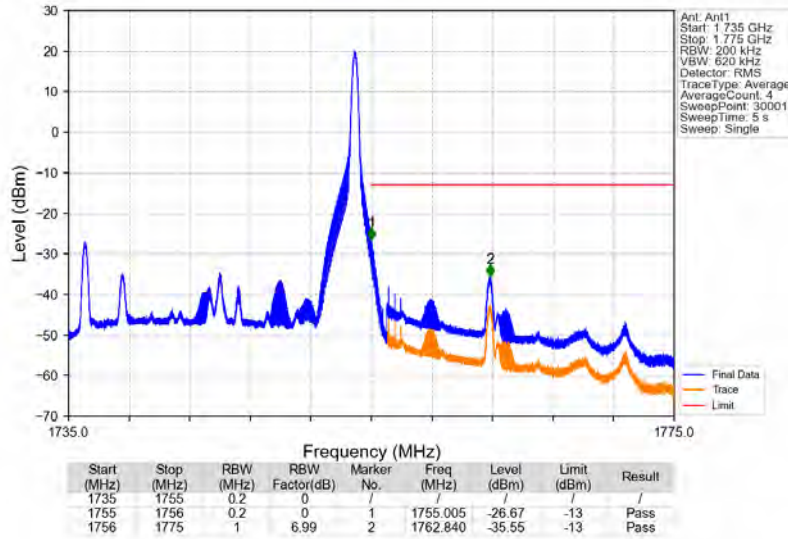
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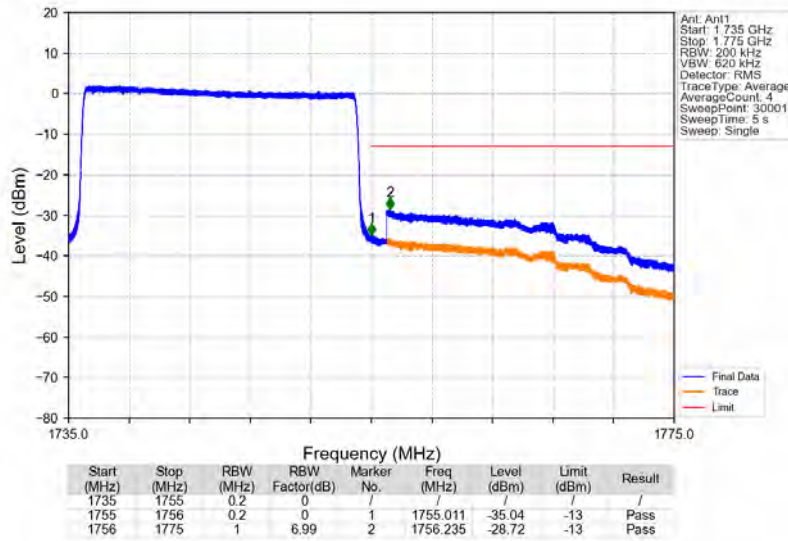
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Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV



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