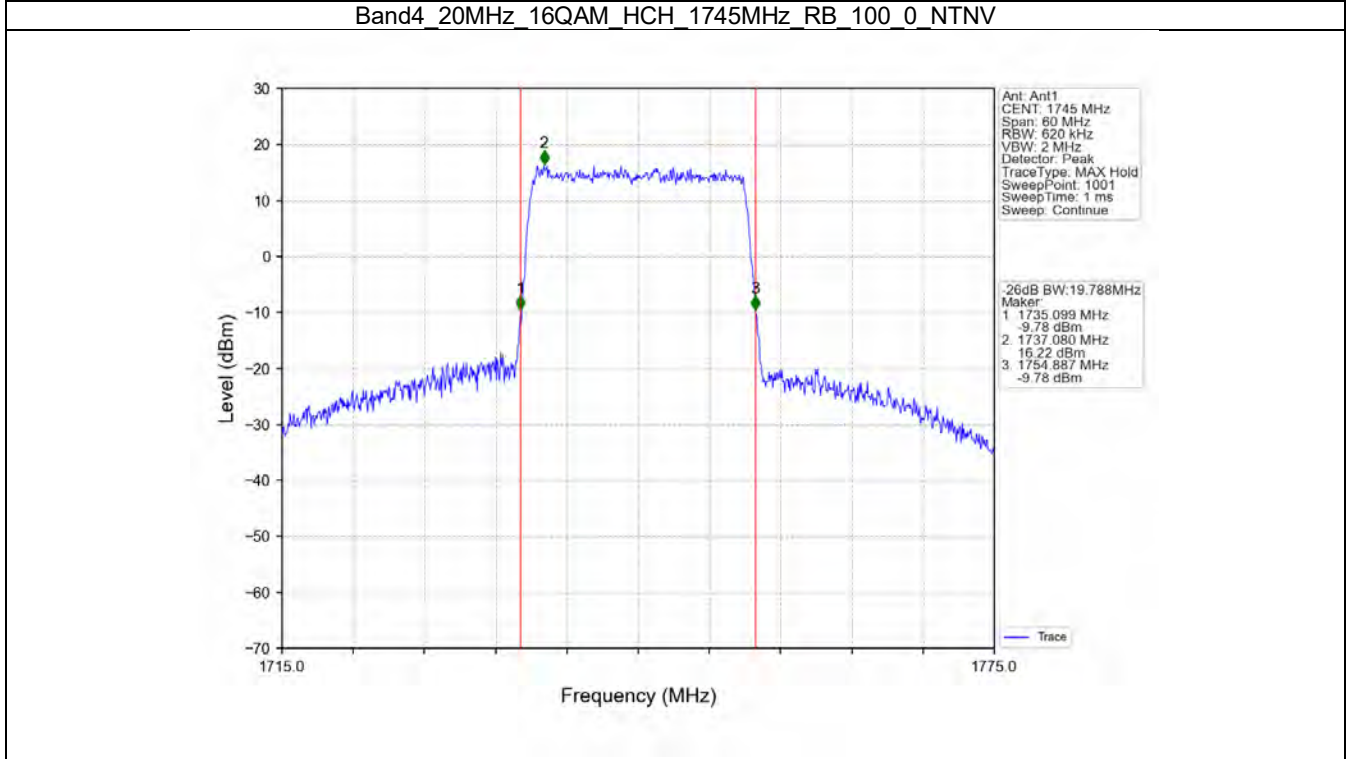


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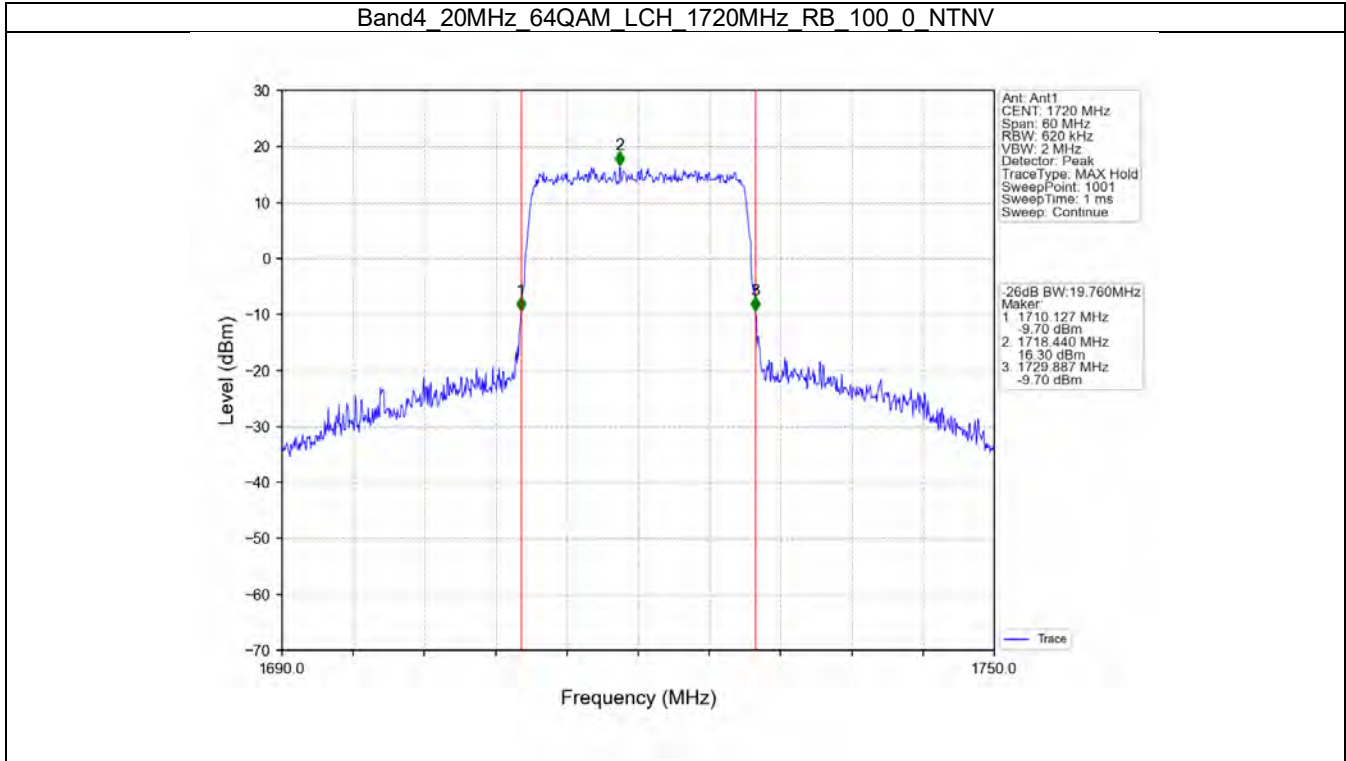
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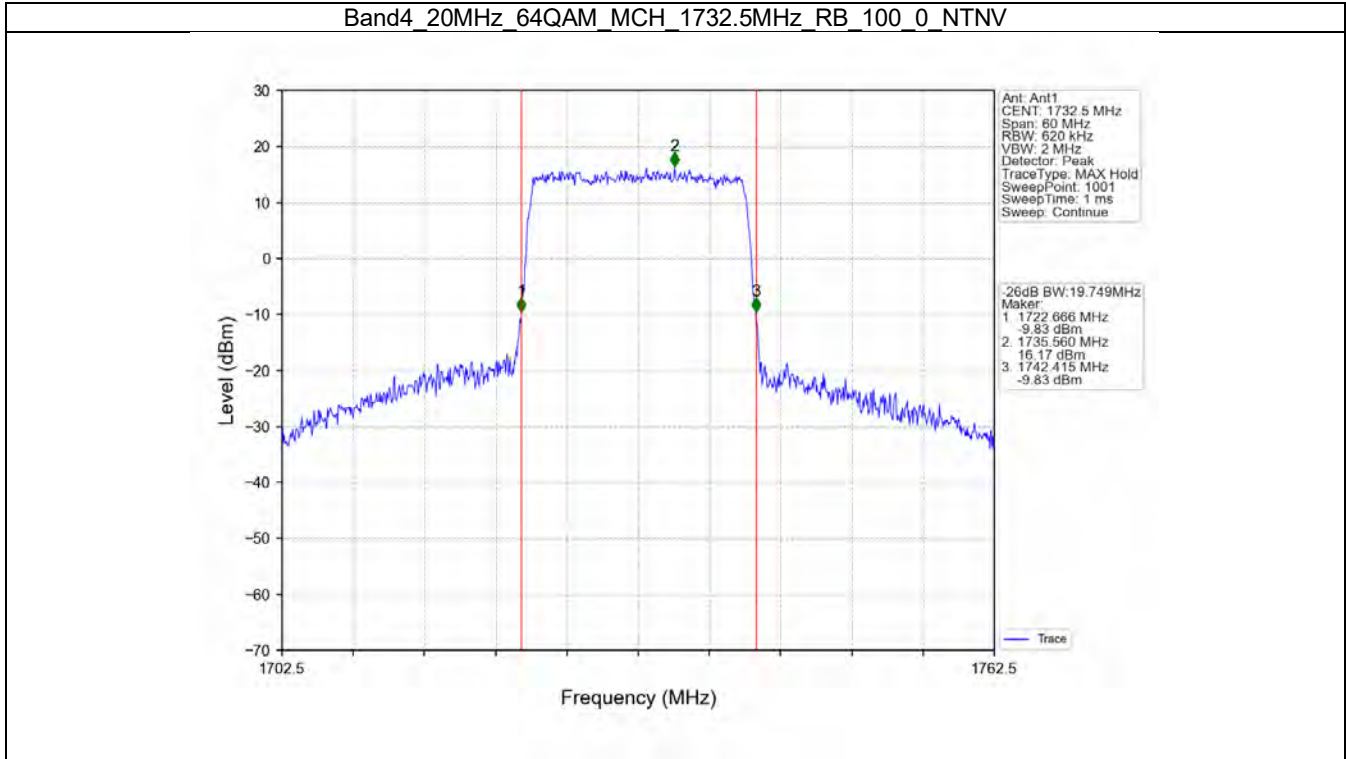
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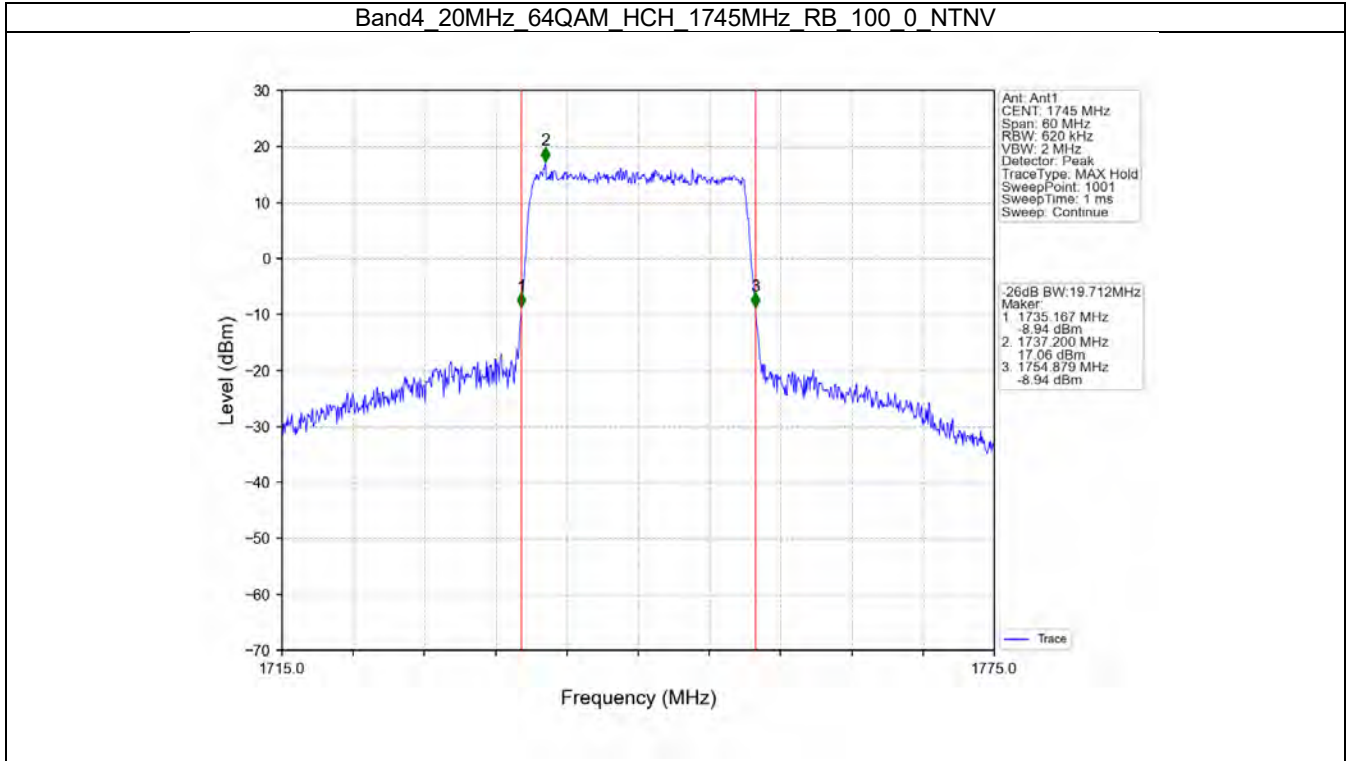
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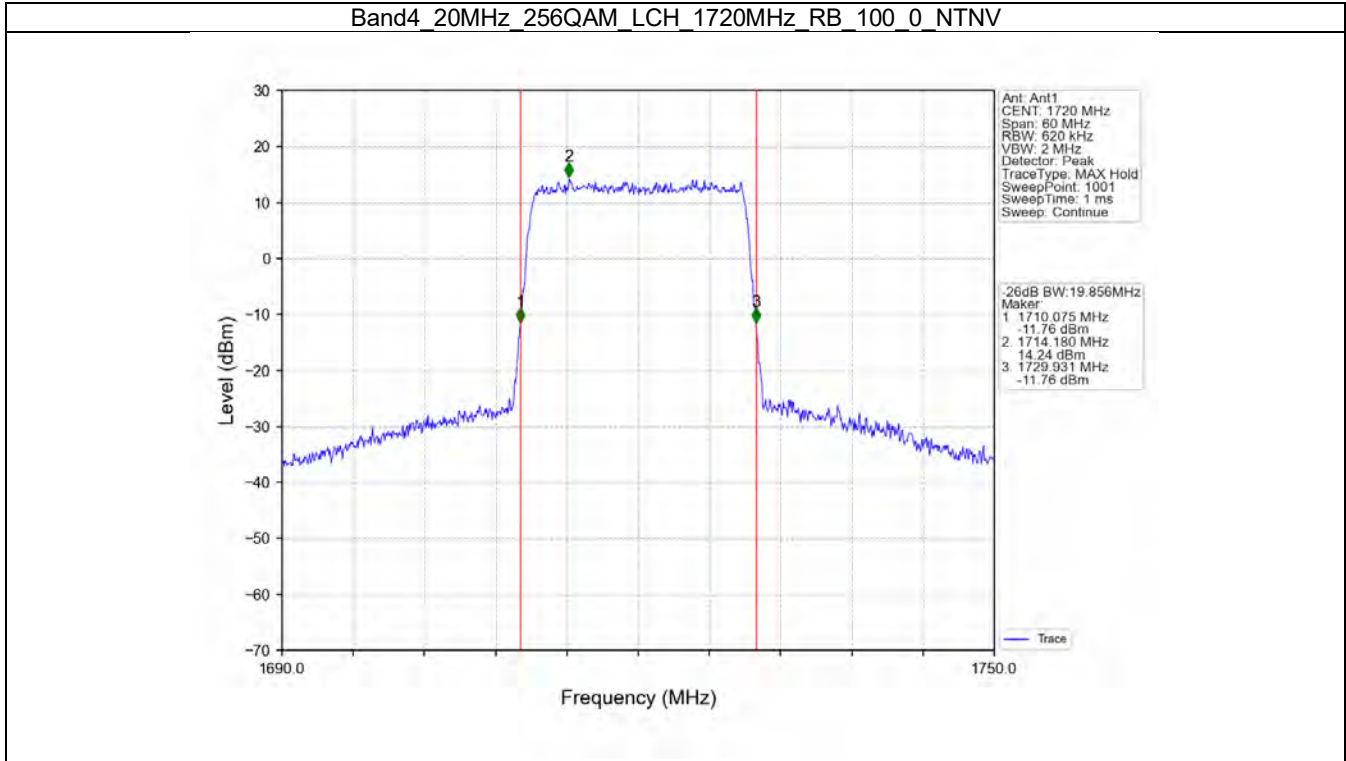
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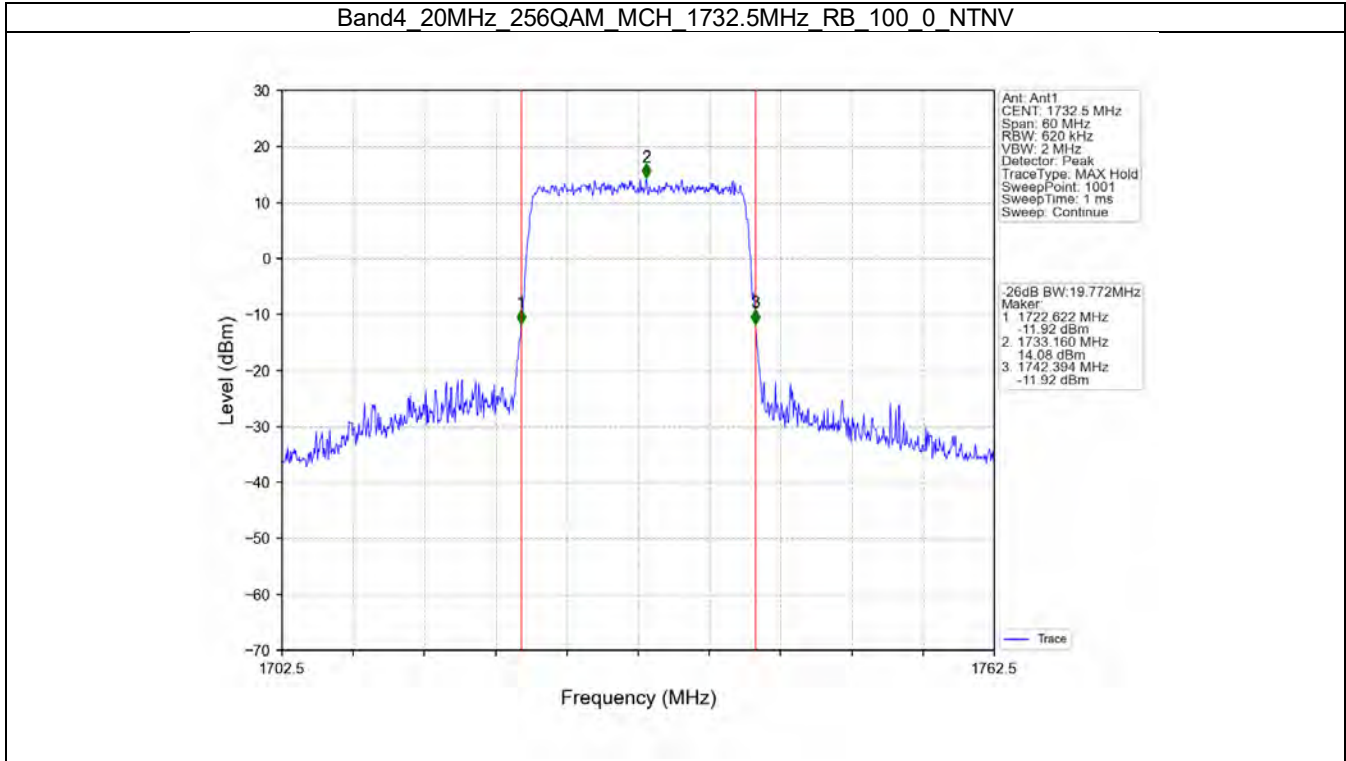
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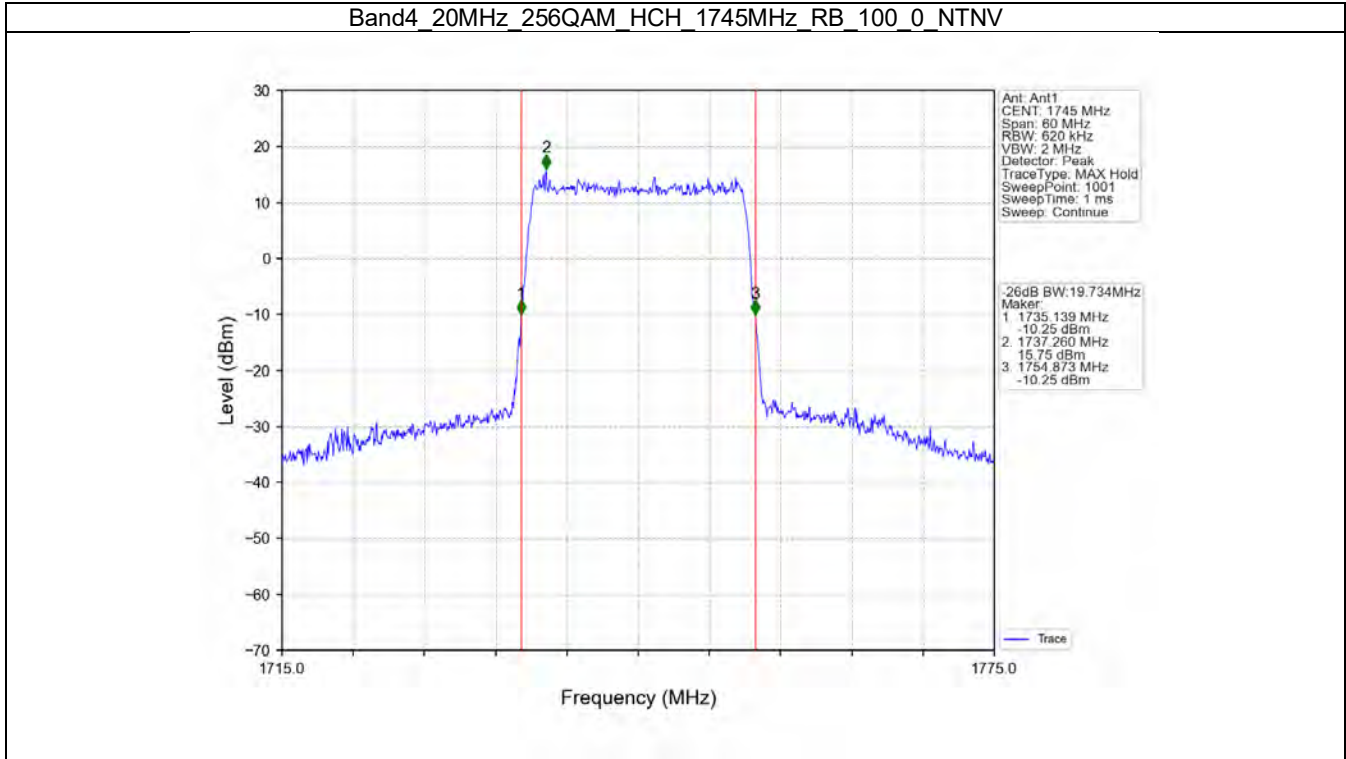
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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	6.32	<=13	Pass
	1732.5	6	0	5.91	<=13	Pass
	1754.3	6	0	5.44	<=13	Pass
16QAM	1710.7	6	0	6.32	<=13	Pass
	1732.5	6	0	5.91	<=13	Pass
	1754.3	6	0	6.17	<=13	Pass
64QAM	1710.7	6	0	6.30	<=13	Pass
	1732.5	6	0	5.91	<=13	Pass
	1754.3	6	0	6.56	<=13	Pass
256QAM	1710.7	6	0	6.64	<=13	Pass
	1732.5	6	0	6.58	<=13	Pass
	1754.3	6	0	6.93	<=13	Pass

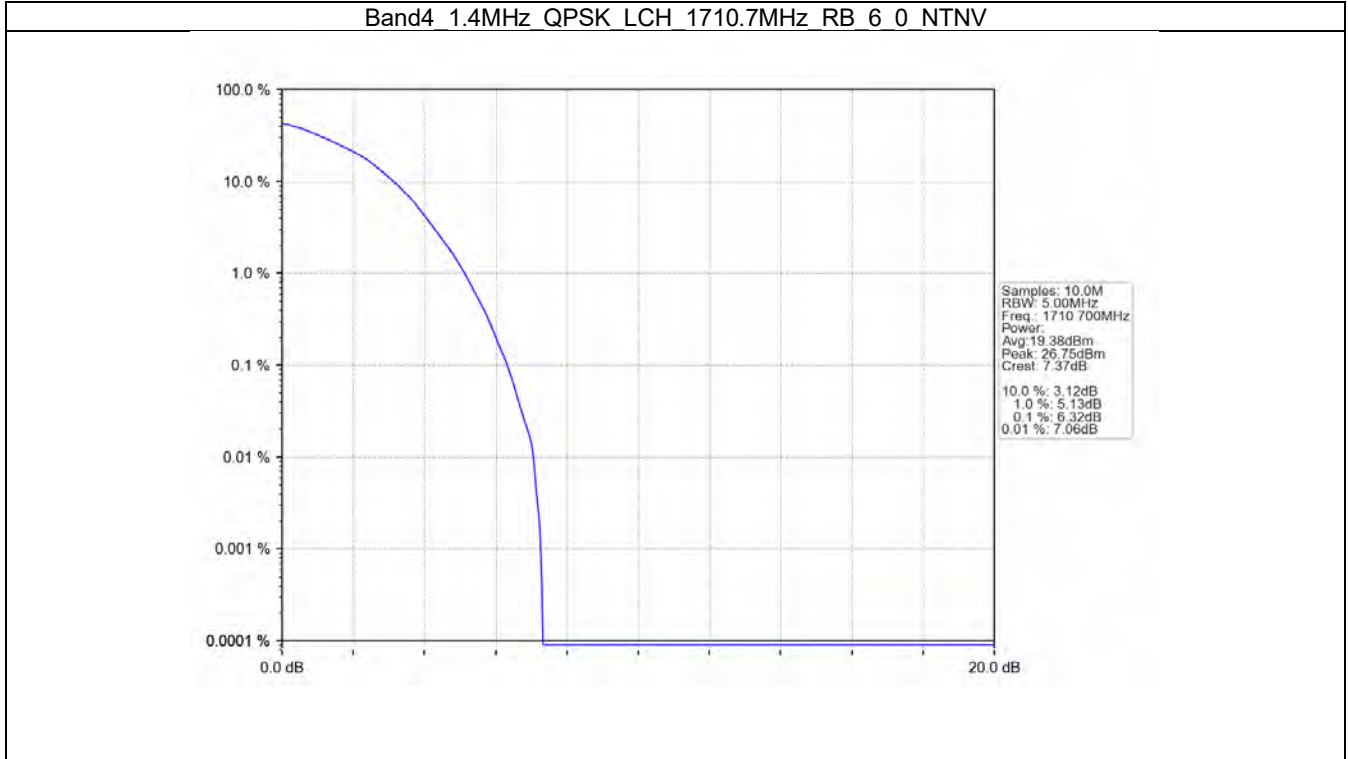


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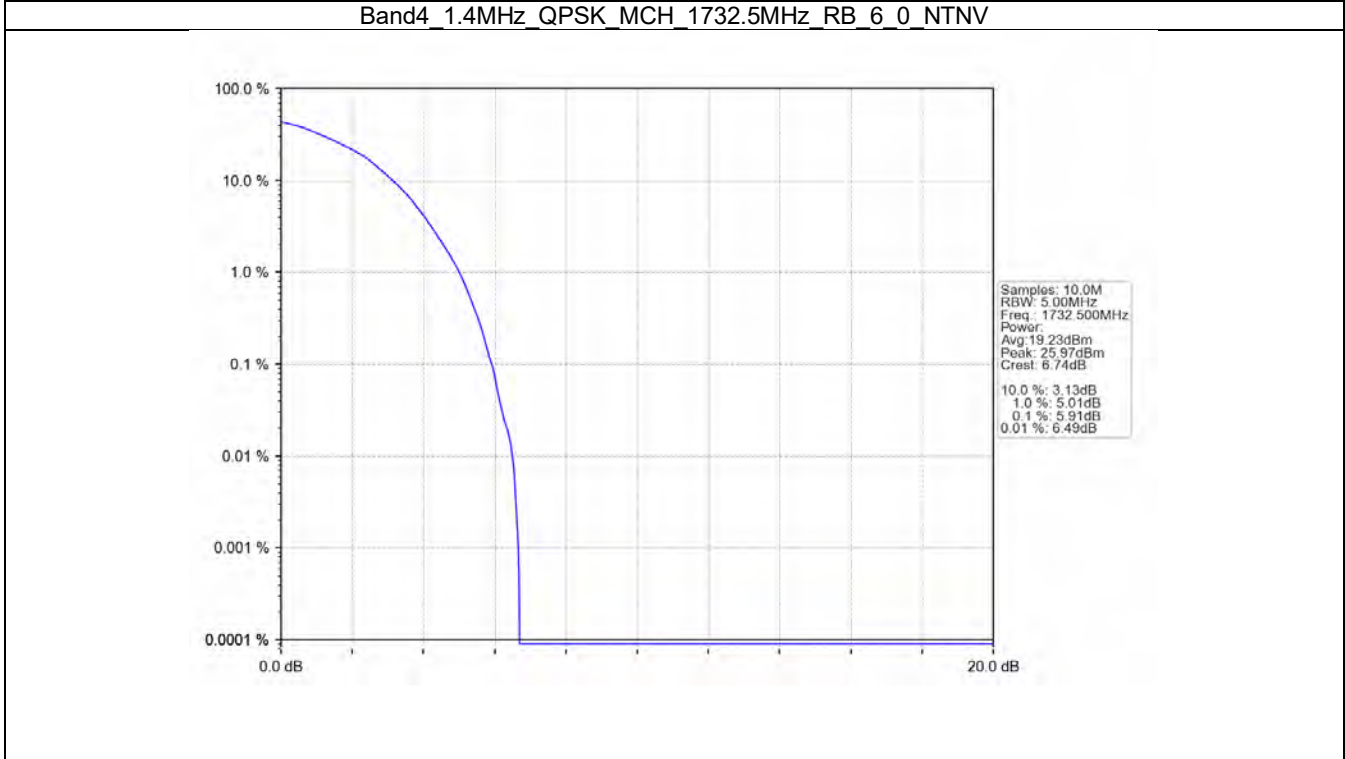
4.1.2 Test Graph



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Wireless Laboratory

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4.2 B4_3MHz

4.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.30	<=13	Pass
	1732.5	15	0	6.23	<=13	Pass
	1753.5	15	0	5.45	<=13	Pass
16QAM	1711.5	15	0	6.13	<=13	Pass
	1732.5	15	0	6.20	<=13	Pass
	1753.5	15	0	6.26	<=13	Pass
64QAM	1711.5	15	0	6.46	<=13	Pass
	1732.5	15	0	6.22	<=13	Pass
	1753.5	15	0	6.56	<=13	Pass
256QAM	1711.5	15	0	6.79	<=13	Pass
	1732.5	15	0	6.72	<=13	Pass
	1753.5	15	0	6.77	<=13	Pass



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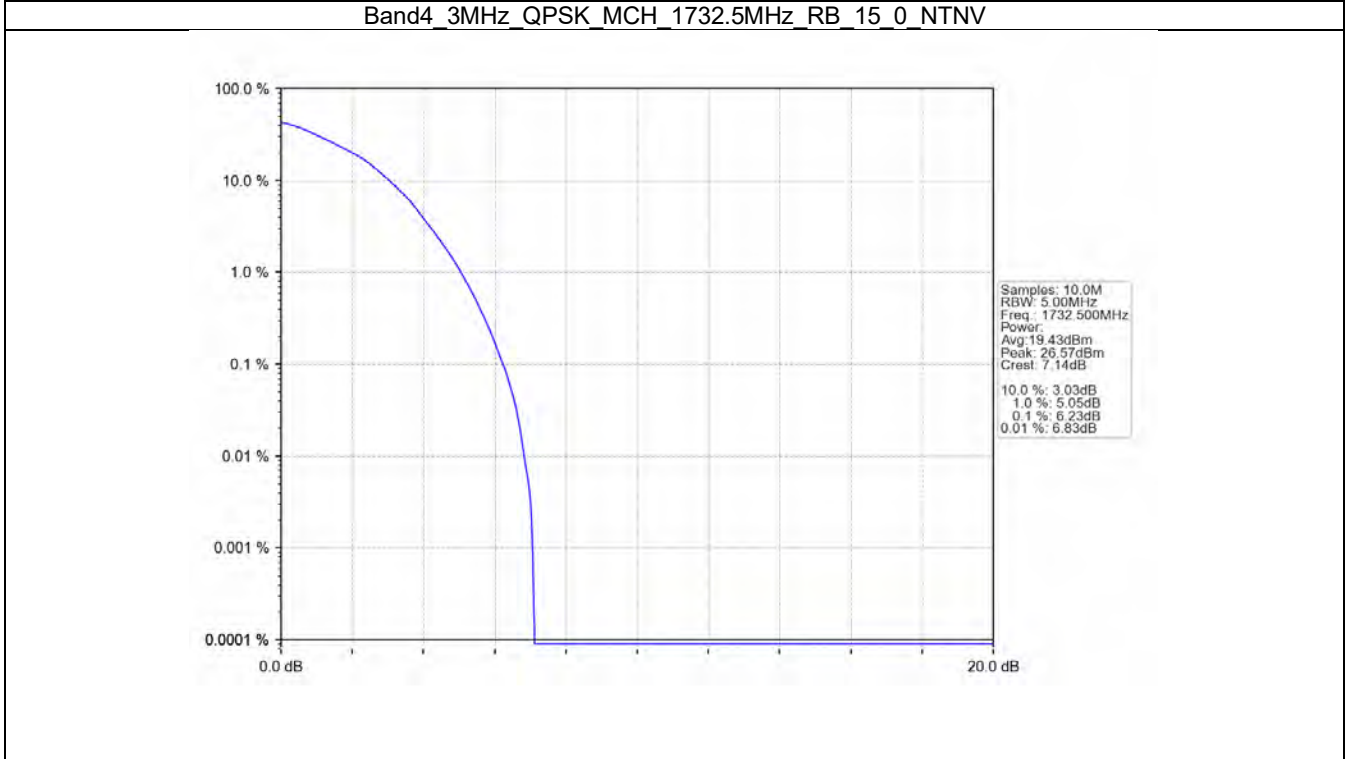
4.2.2 Test Graph



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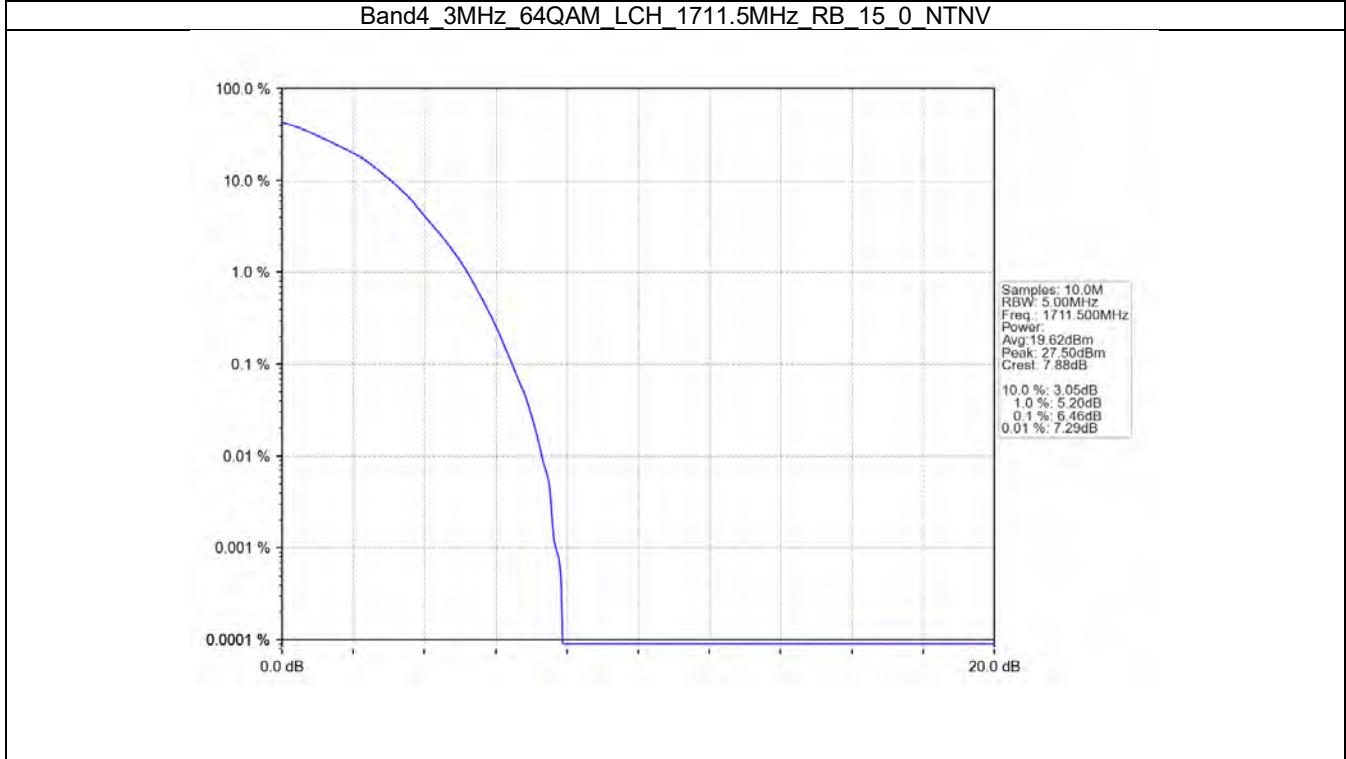
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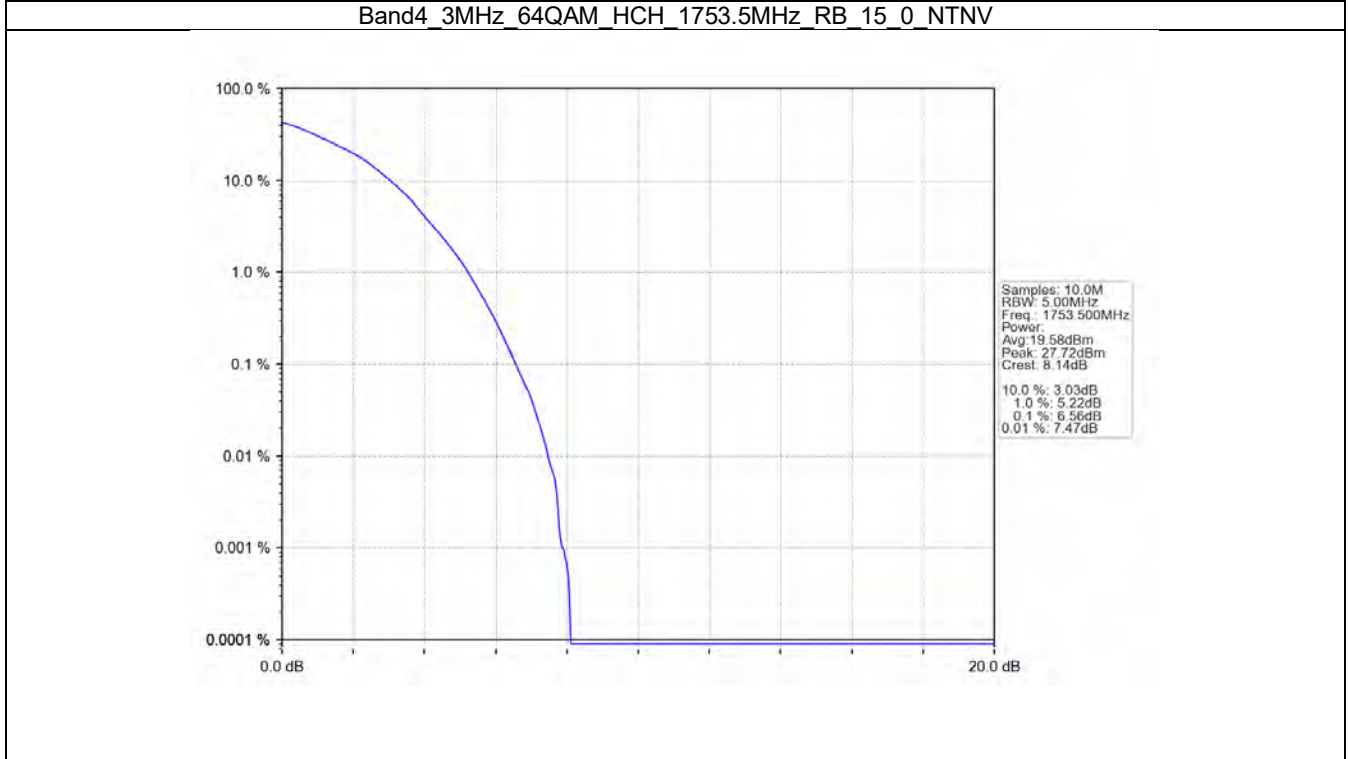
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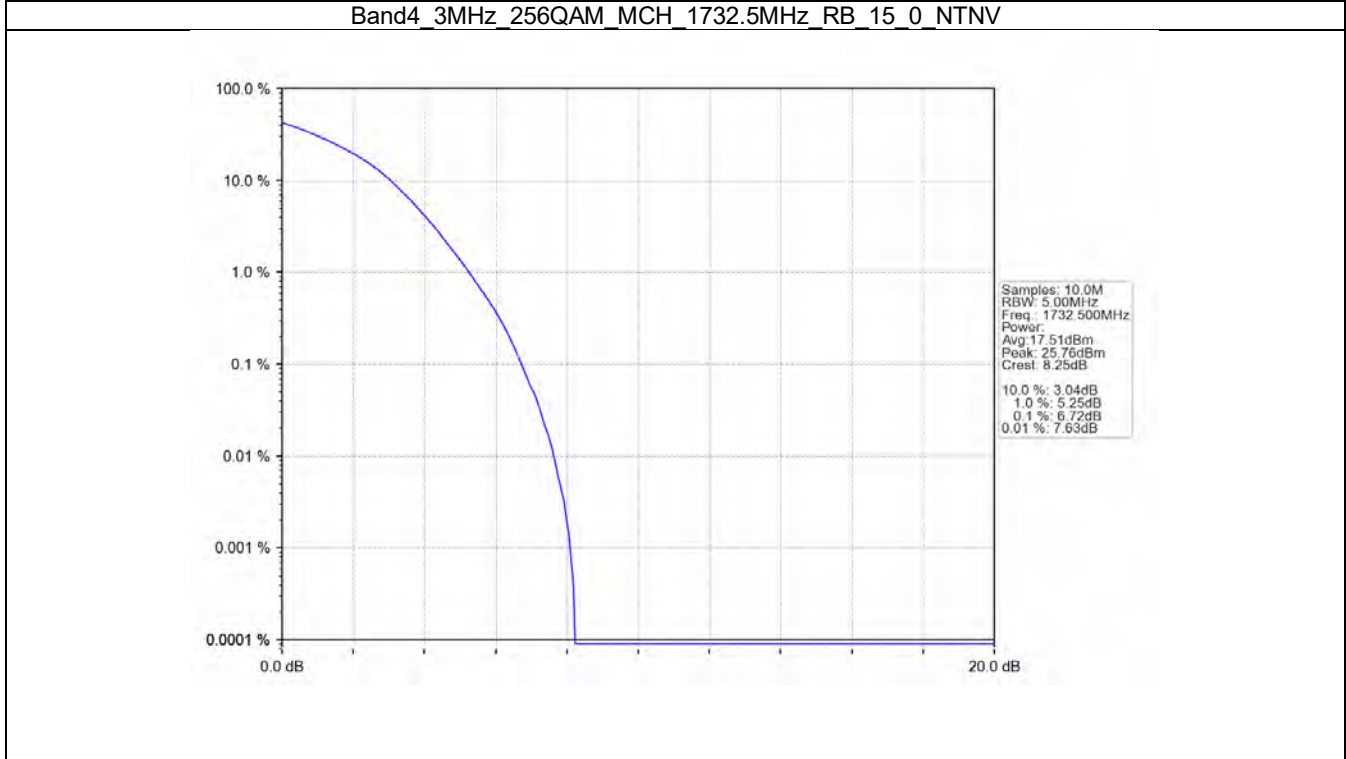
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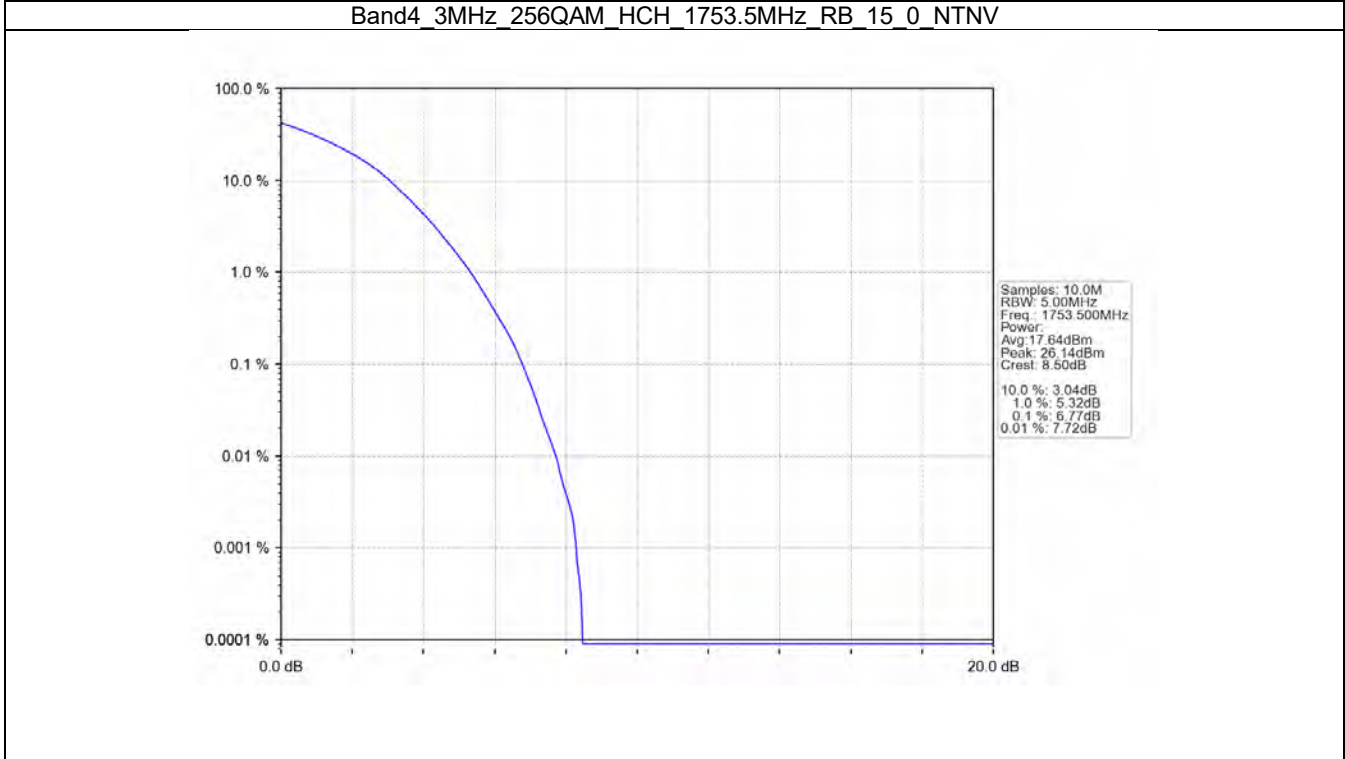
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4.3 B4_5MHz

4.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.48	<=13	Pass
	1732.5	25	0	6.22	<=13	Pass
	1752.5	25	0	5.57	<=13	Pass
16QAM	1712.5	25	0	6.17	<=13	Pass
	1732.5	25	0	6.22	<=13	Pass
	1752.5	25	0	6.26	<=13	Pass
64QAM	1712.5	25	0	6.50	<=13	Pass
	1732.5	25	0	6.21	<=13	Pass
	1752.5	25	0	6.55	<=13	Pass
256QAM	1712.5	25	0	6.88	<=13	Pass
	1732.5	25	0	6.70	<=13	Pass
	1752.5	25	0	6.85	<=13	Pass



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4.3.2 Test Graph



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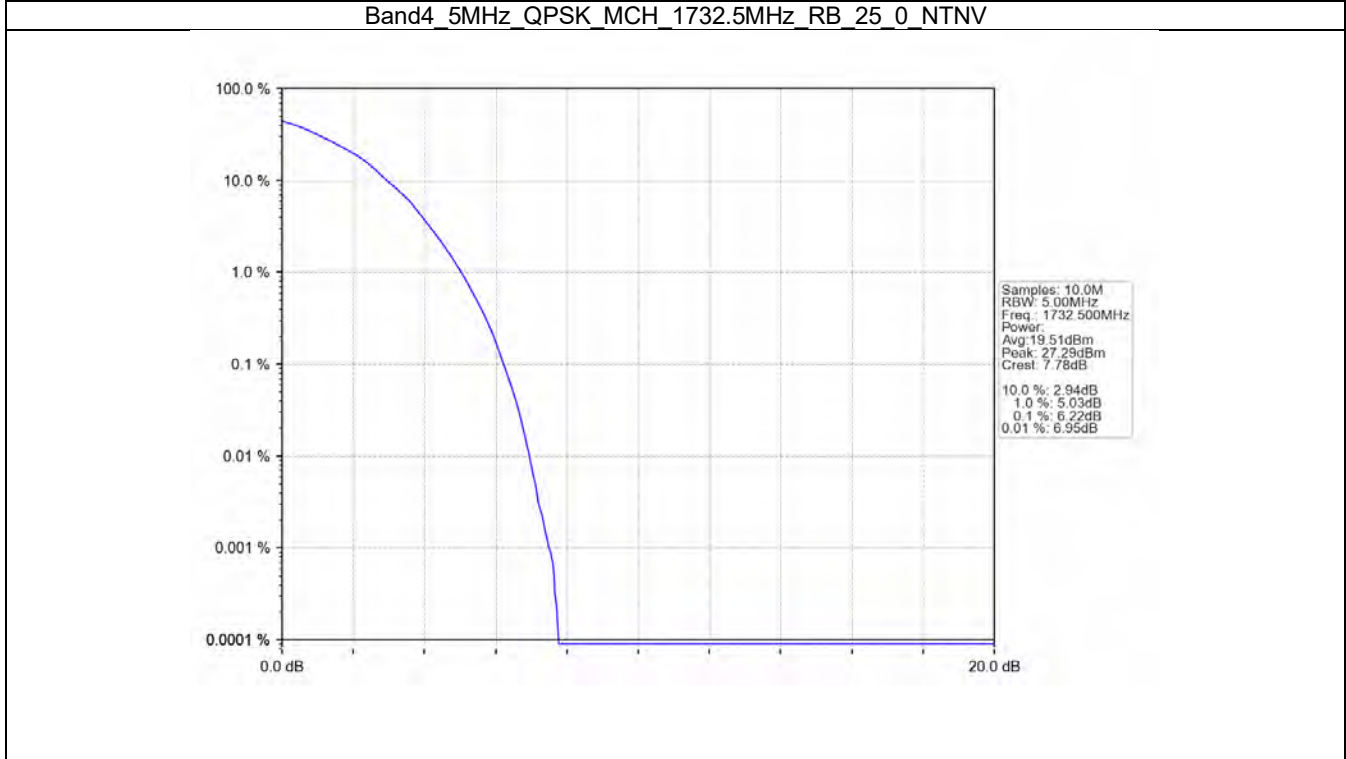
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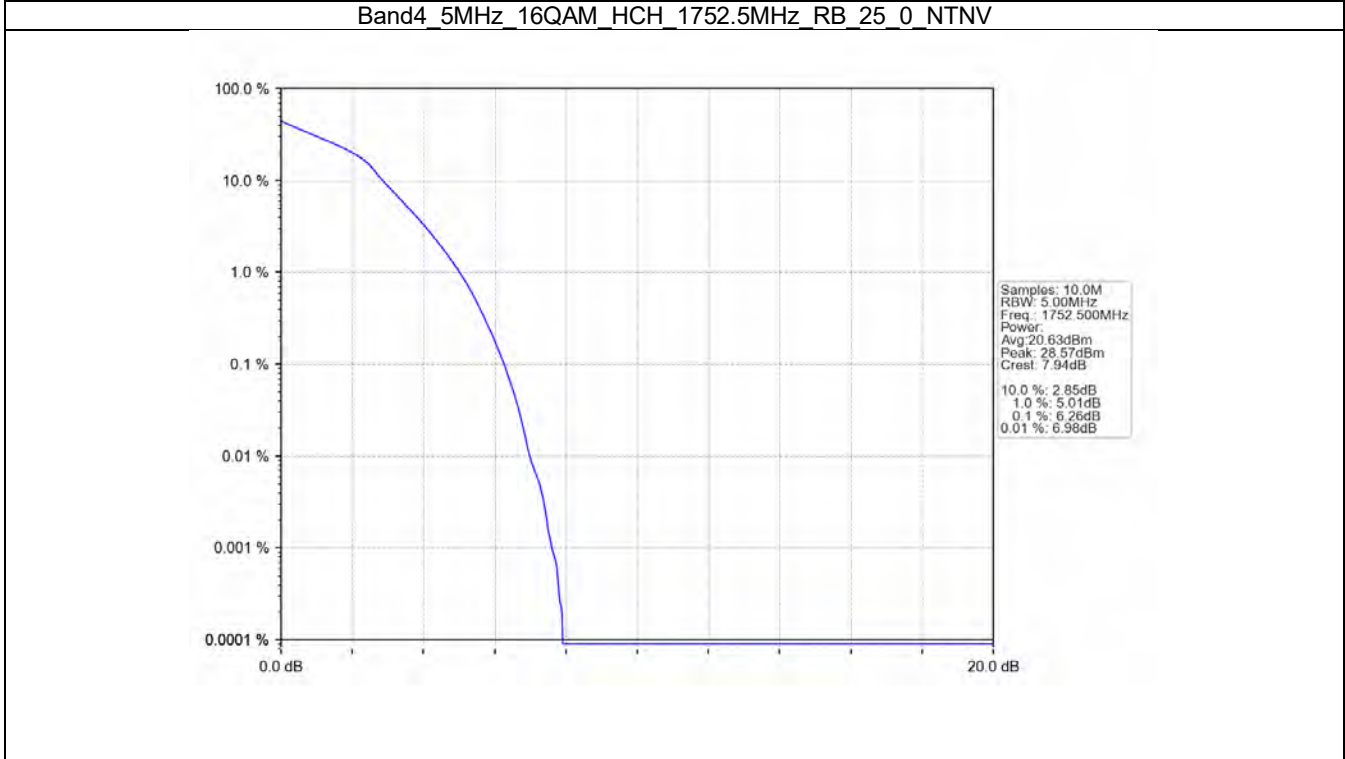
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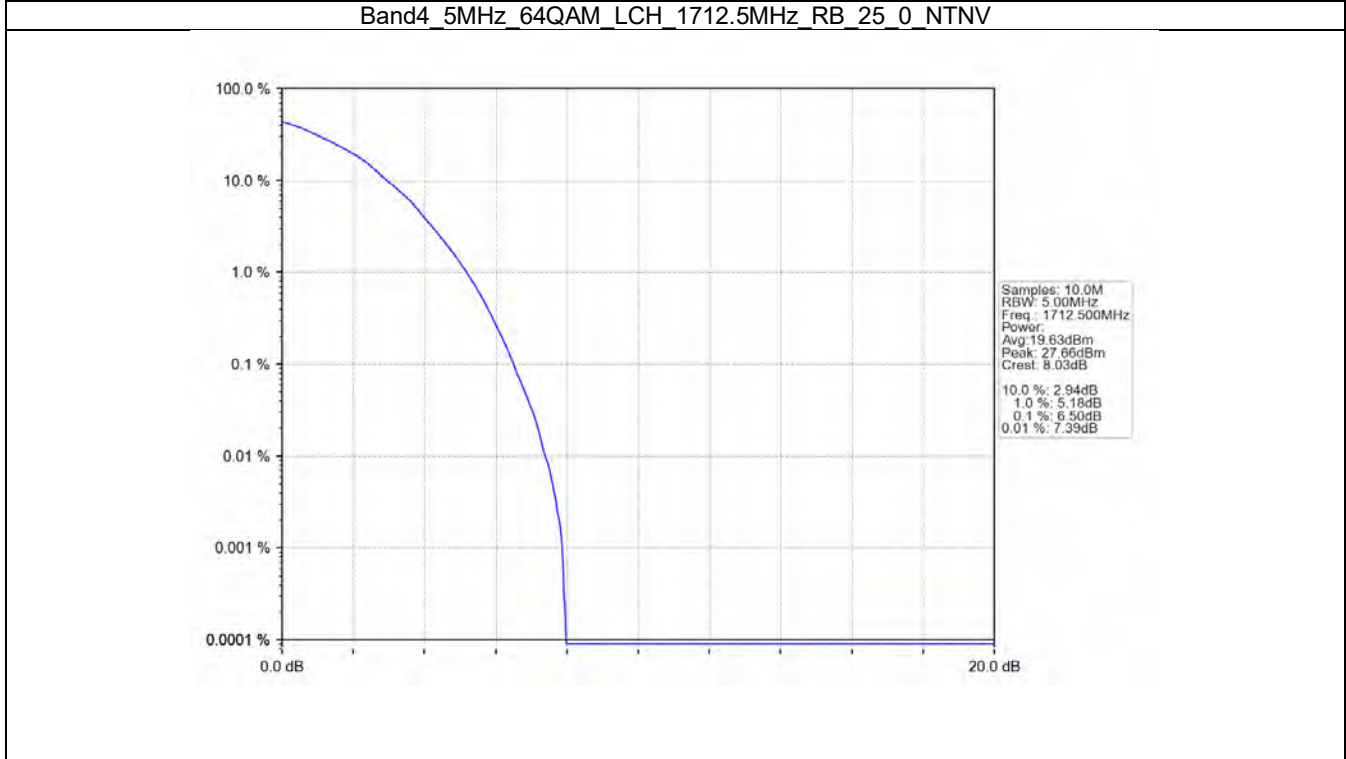


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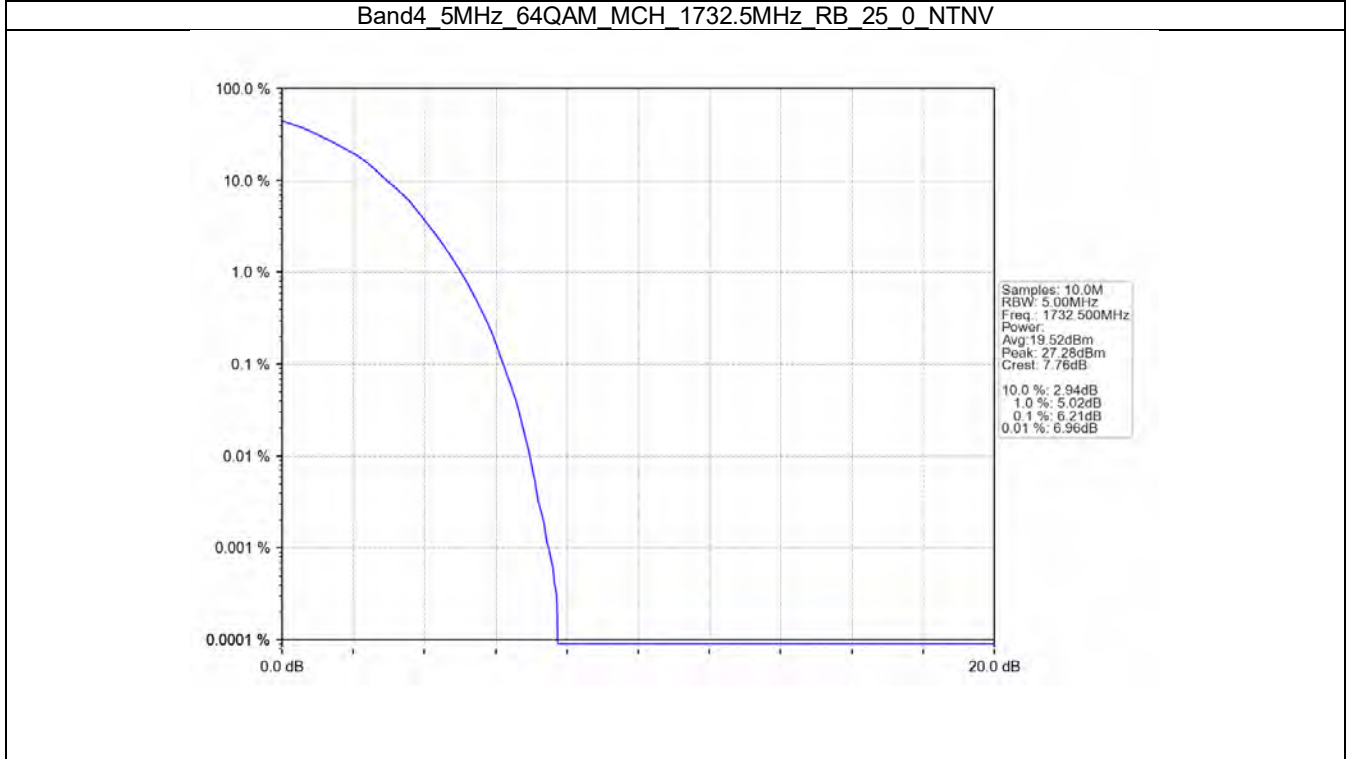
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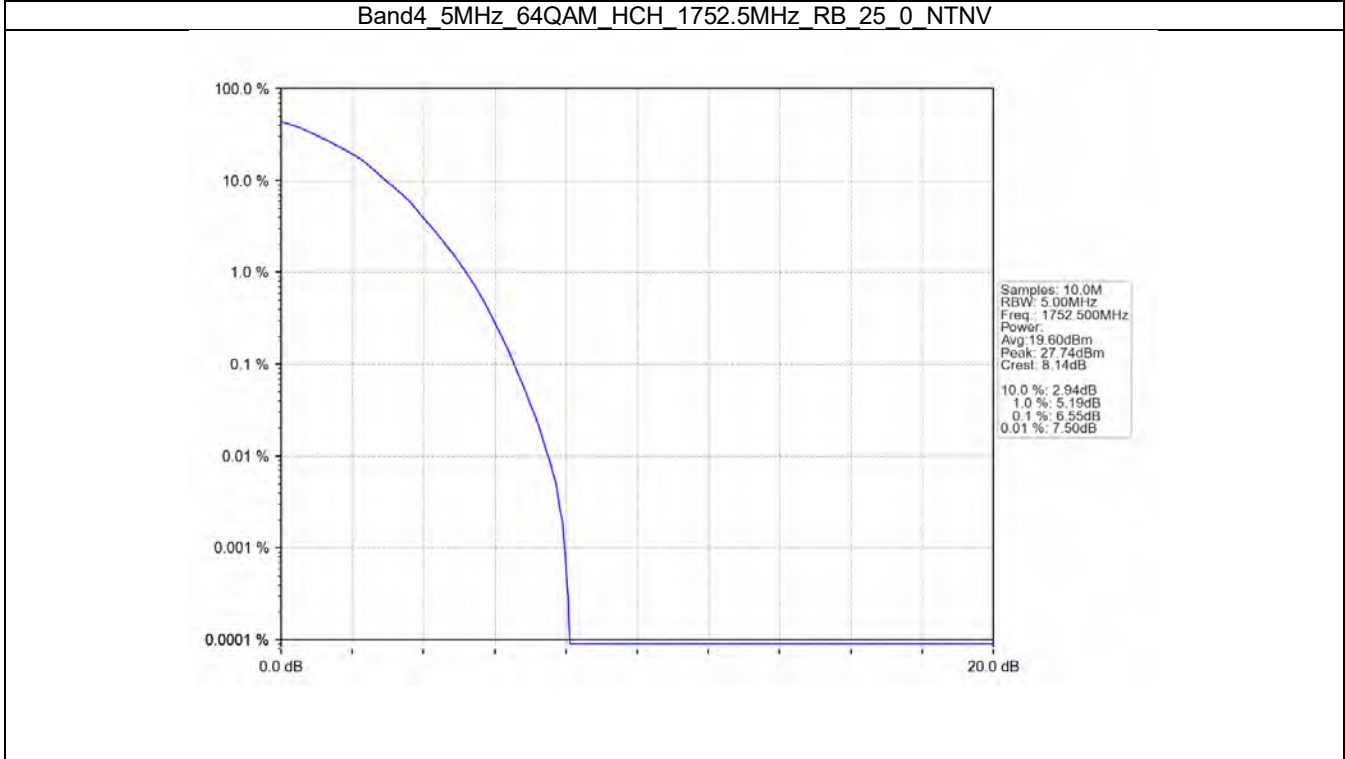
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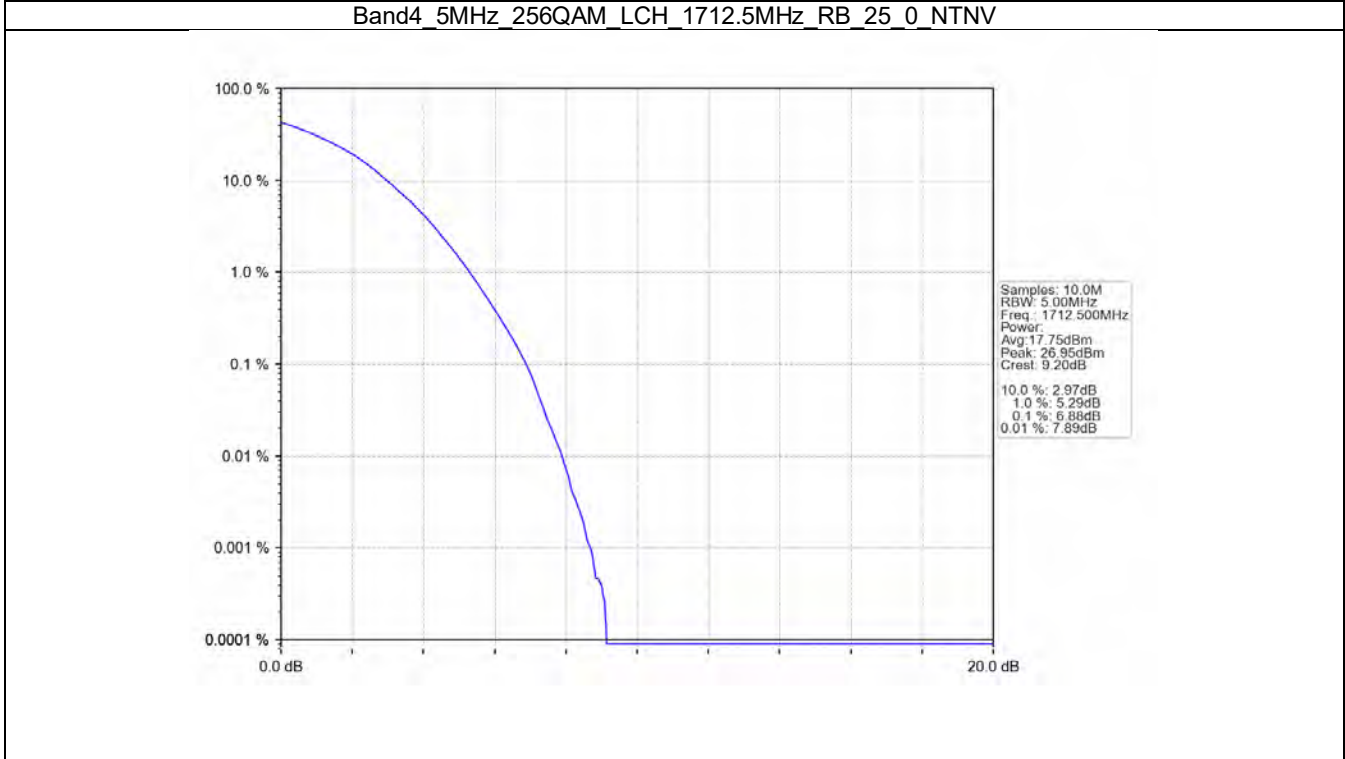
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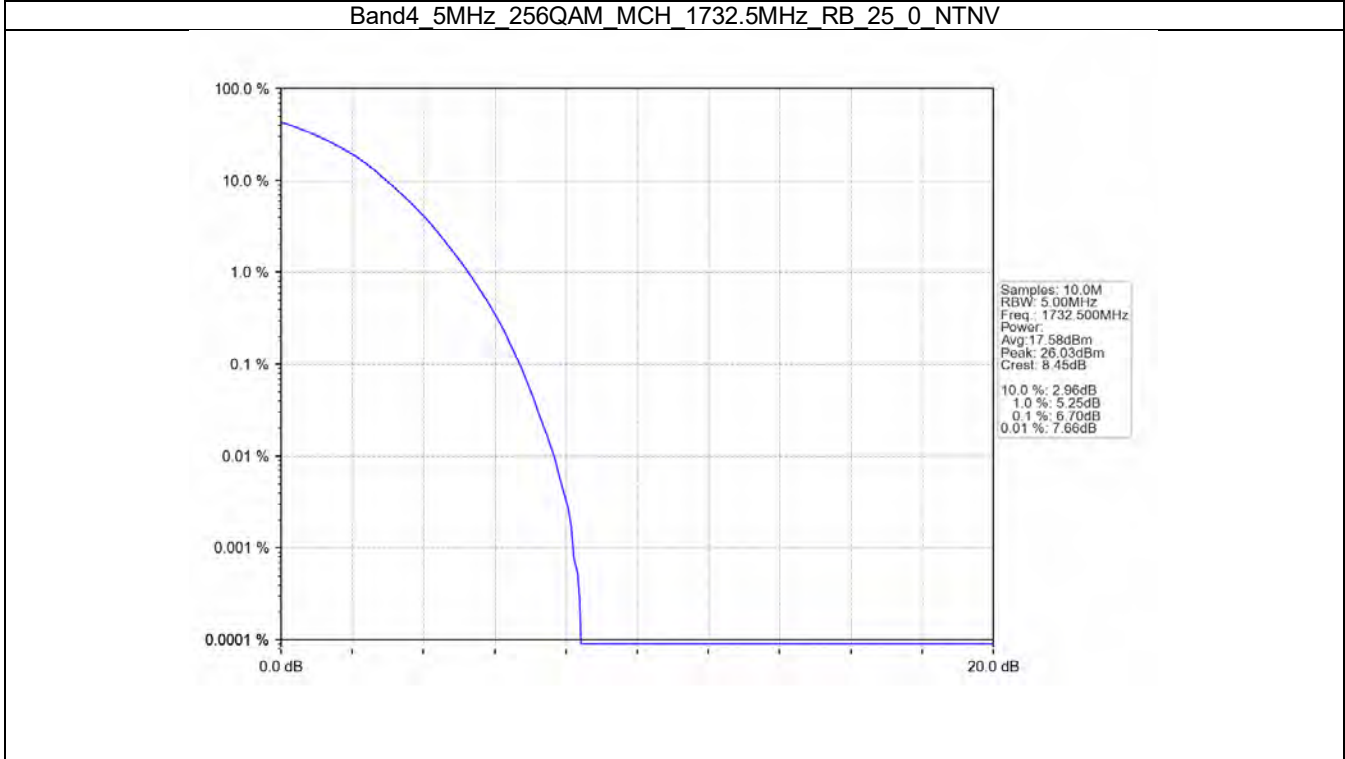
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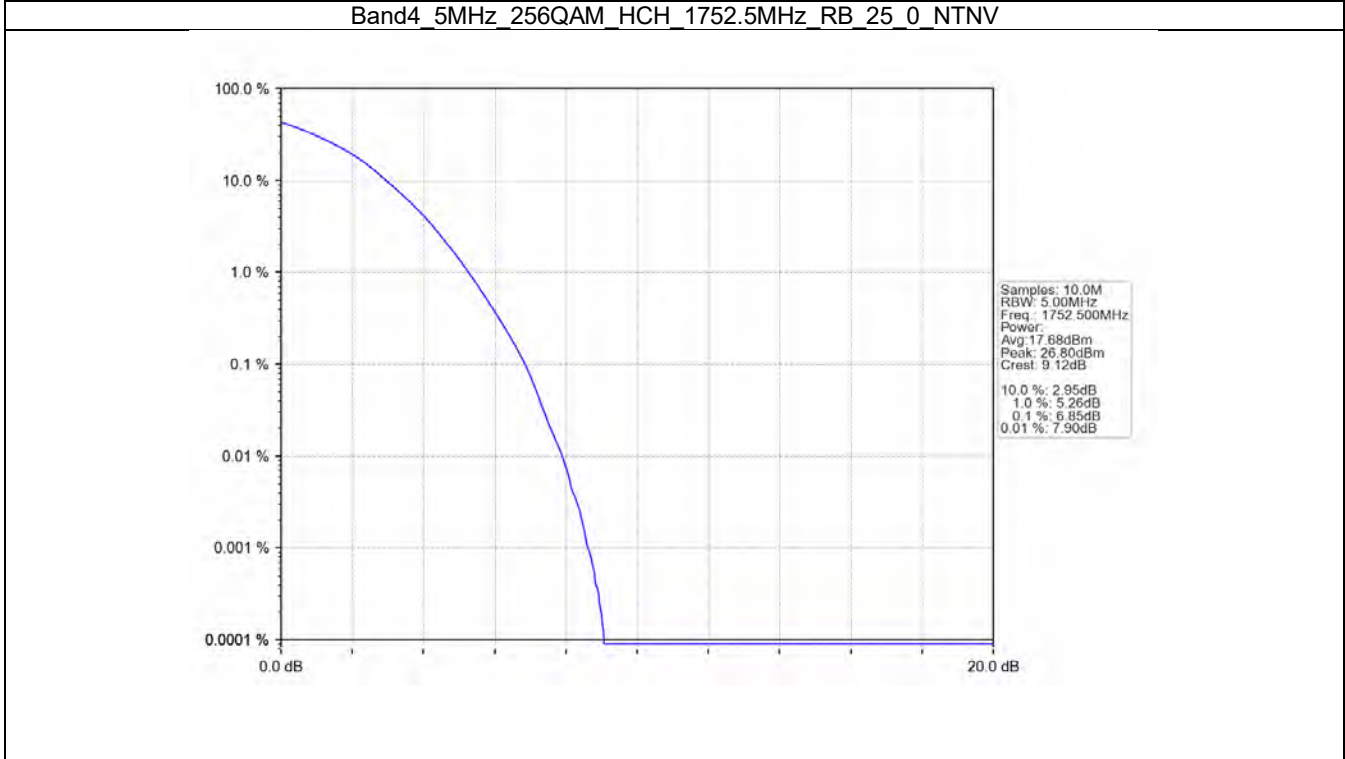
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4.4 B4_10MHz

4.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTN						
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	6.22	<=13	Pass
	1750	50	0	6.51	<=13	Pass
16QAM	1715	50	0	6.12	<=13	Pass
	1732.5	50	0	6.23	<=13	Pass
	1750	50	0	6.52	<=13	Pass
64QAM	1715	50	0	6.46	<=13	Pass
	1732.5	50	0	6.21	<=13	Pass
	1750	50	0	6.51	<=13	Pass
256QAM	1715	50	0	6.74	<=13	Pass
	1732.5	50	0	6.57	<=13	Pass
	1750	50	0	6.82	<=13	Pass

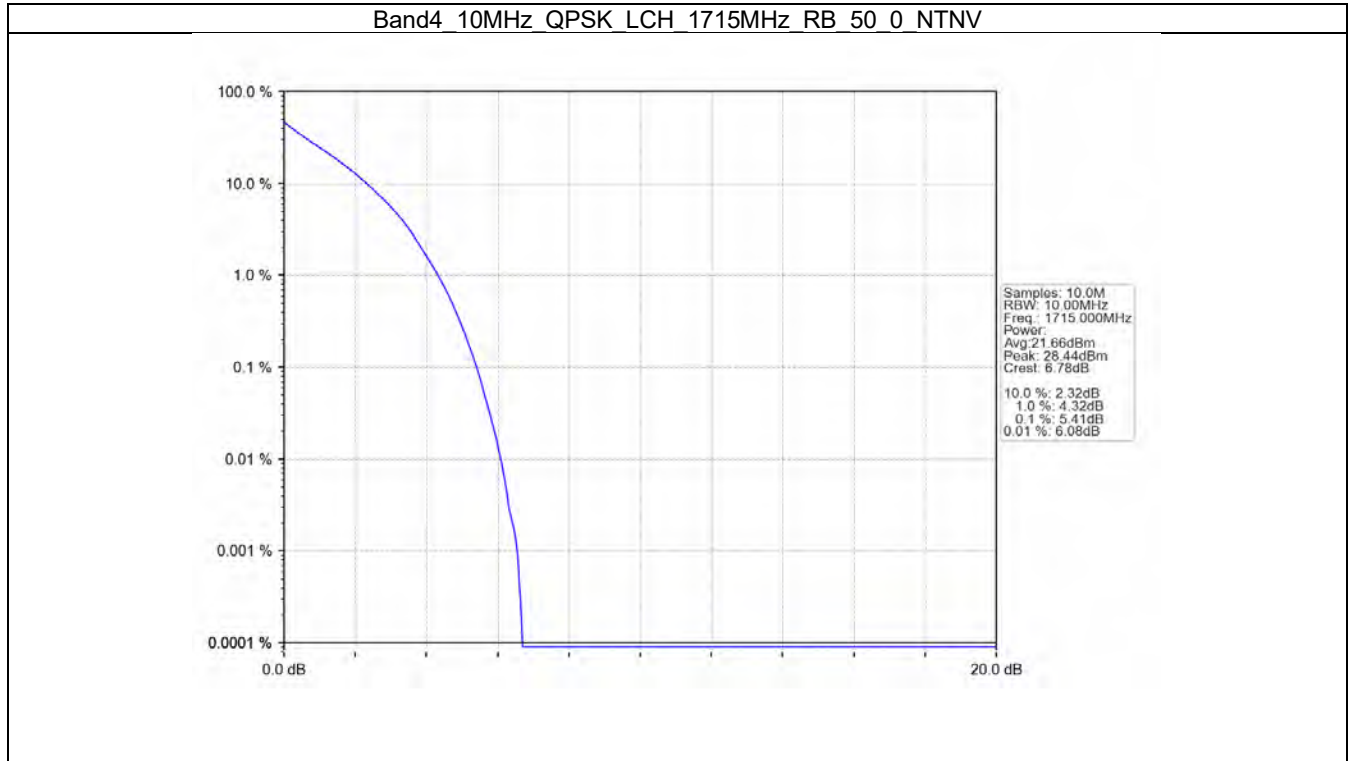


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4.4.2 Test Graph



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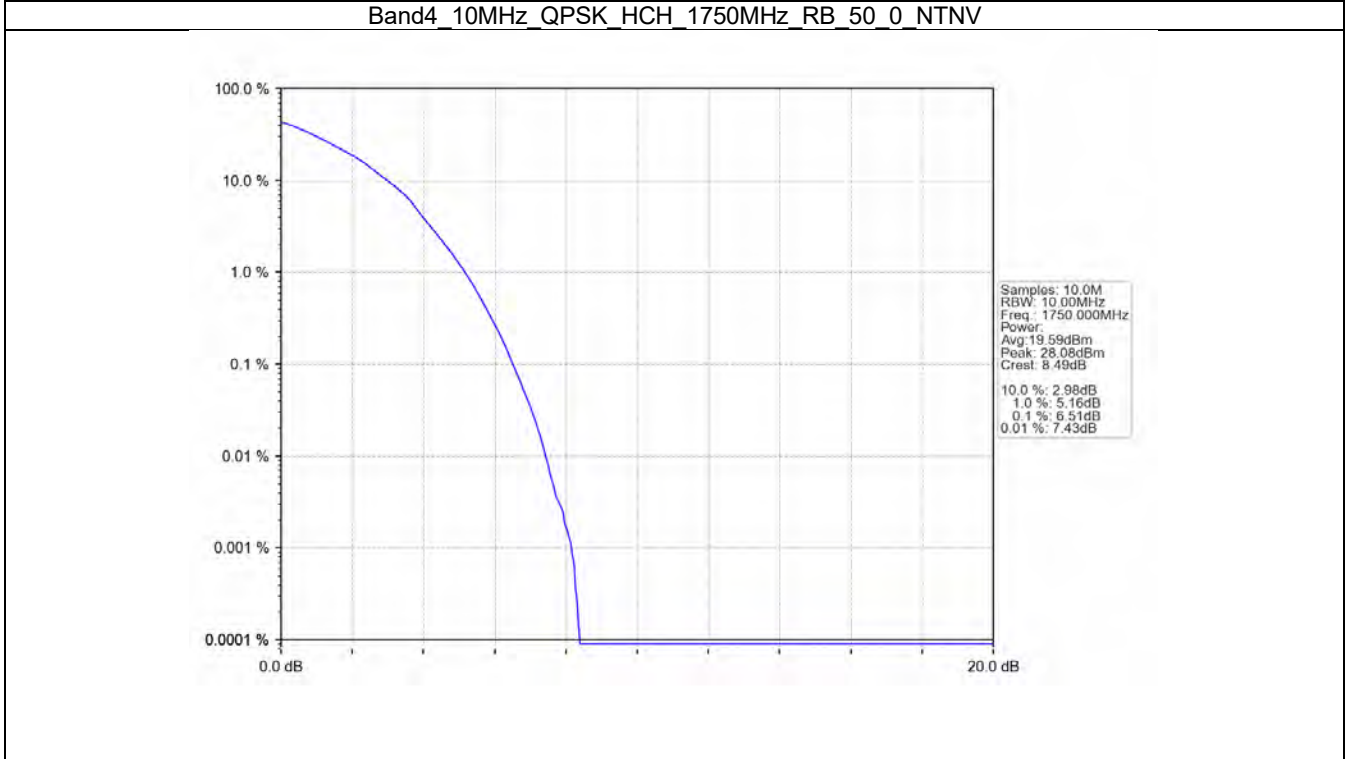
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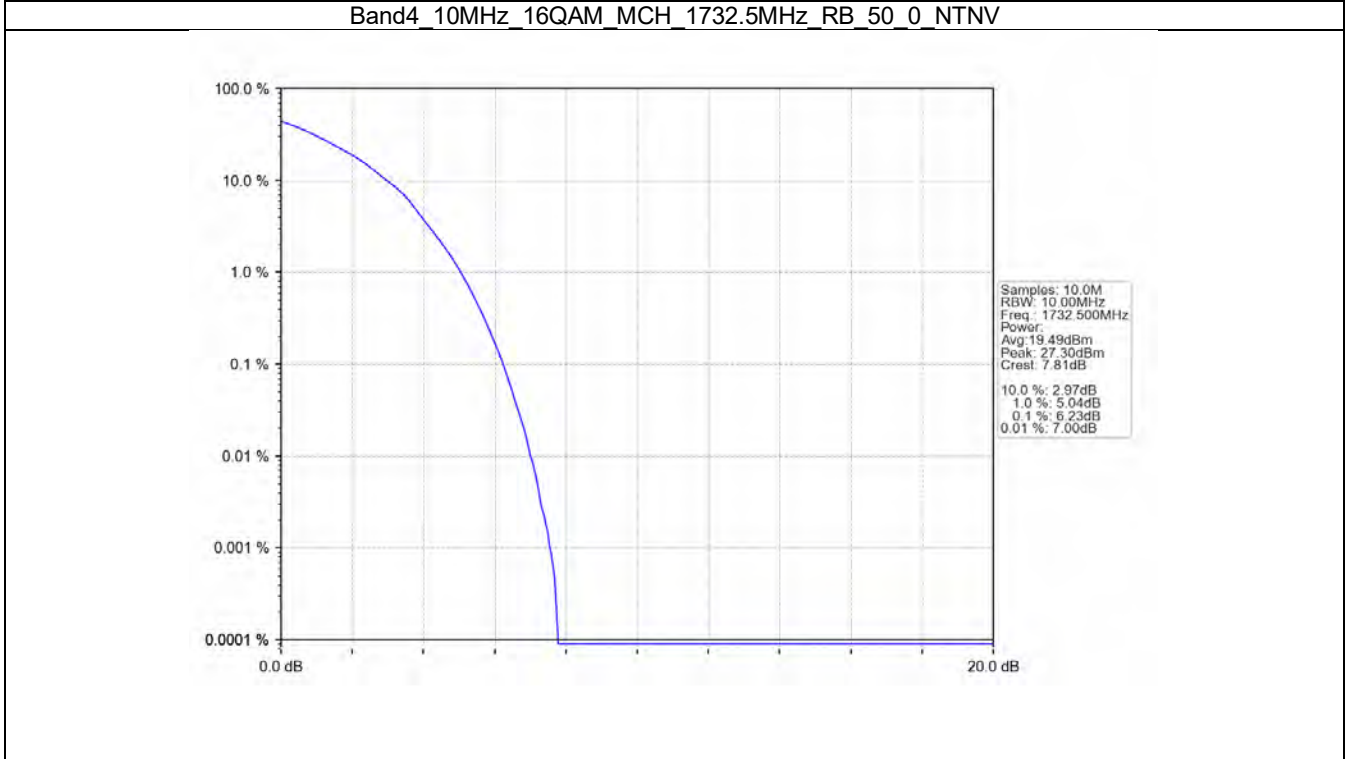
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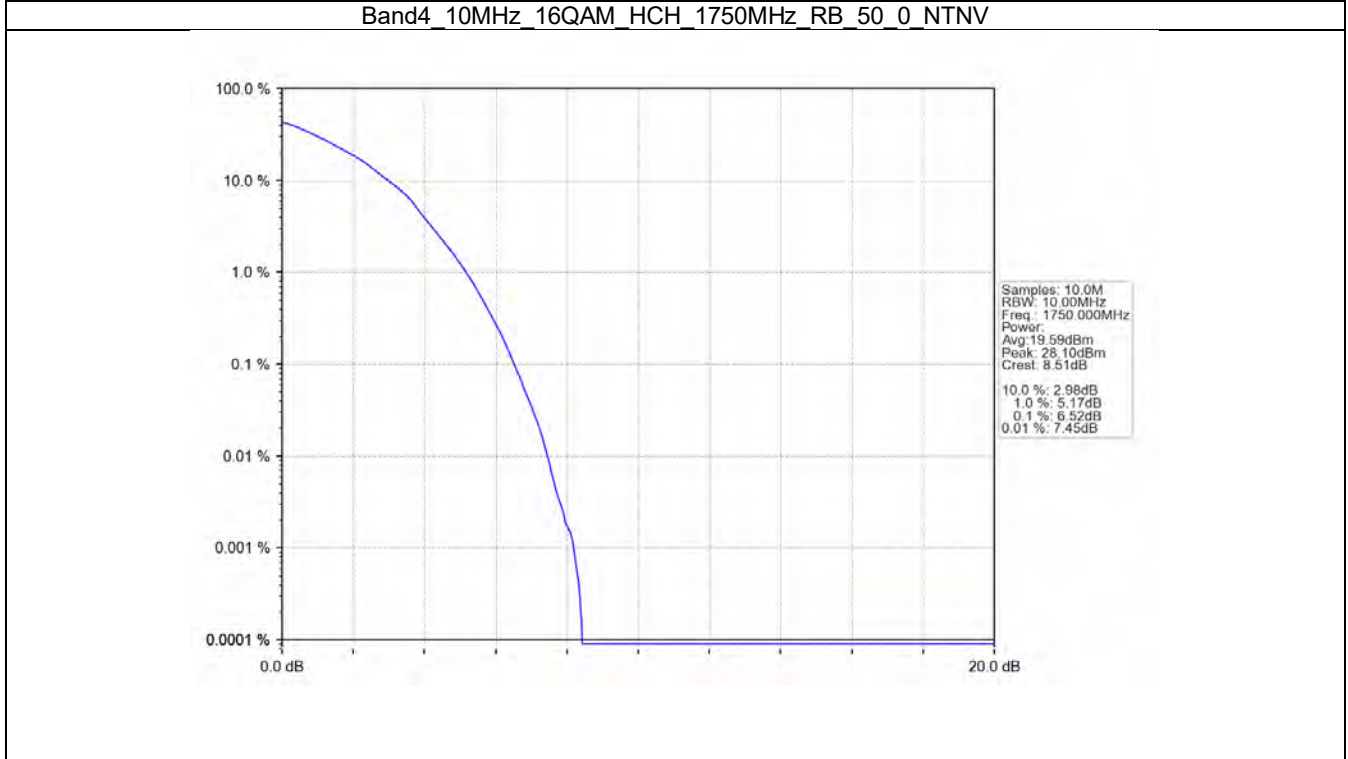
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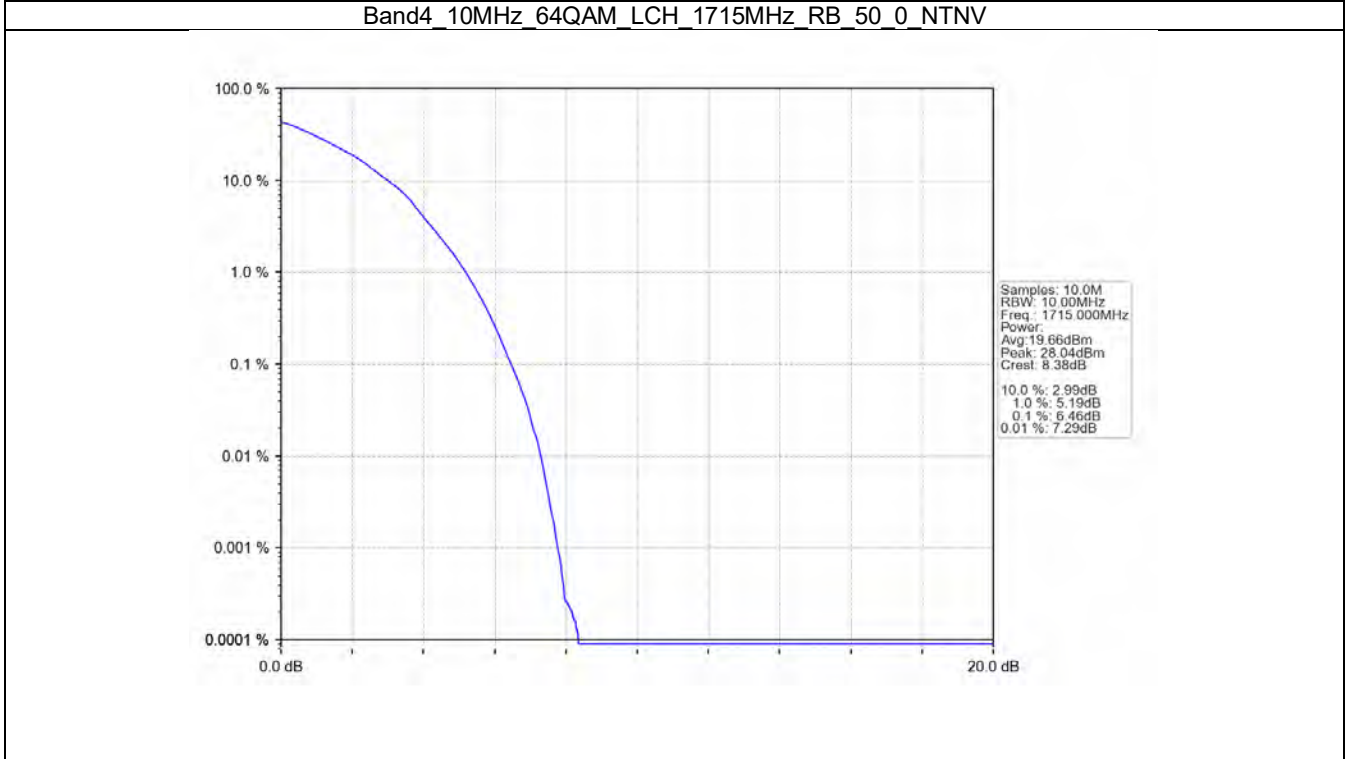
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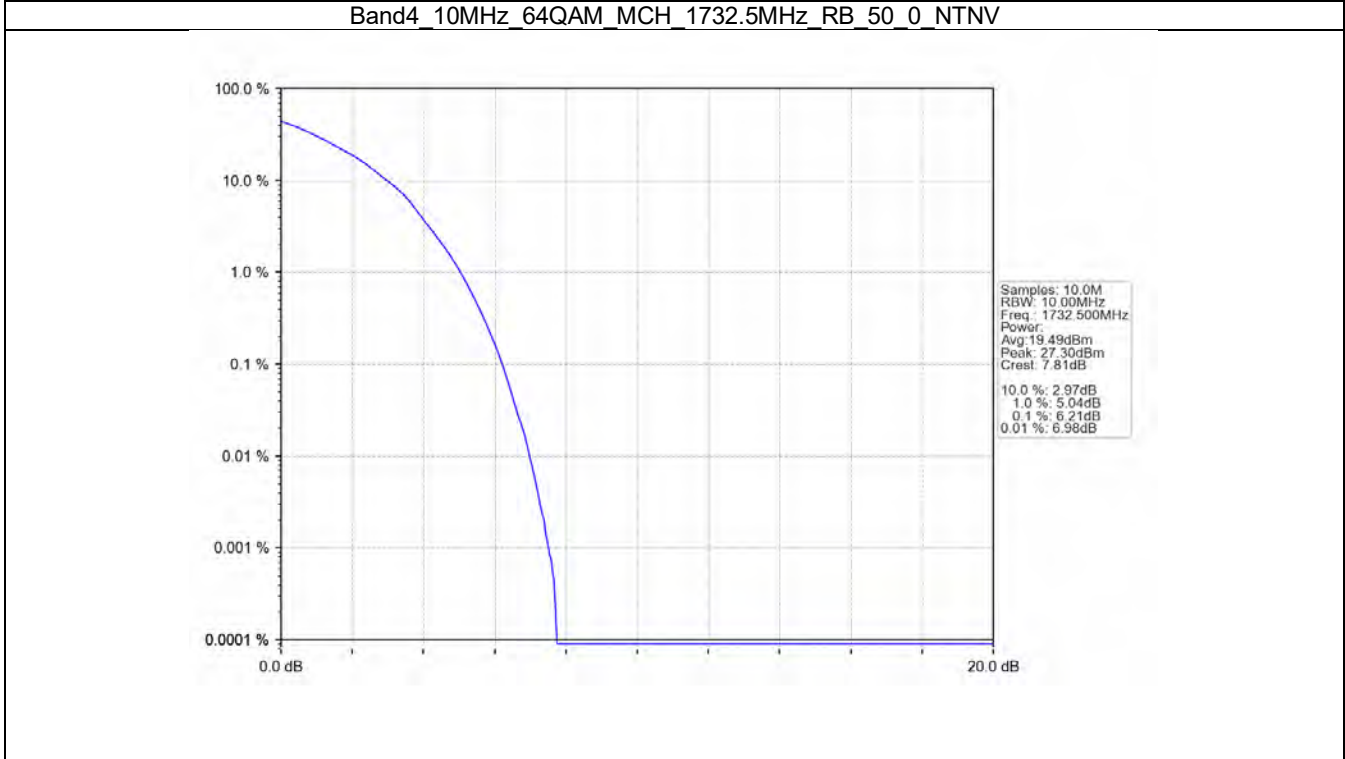
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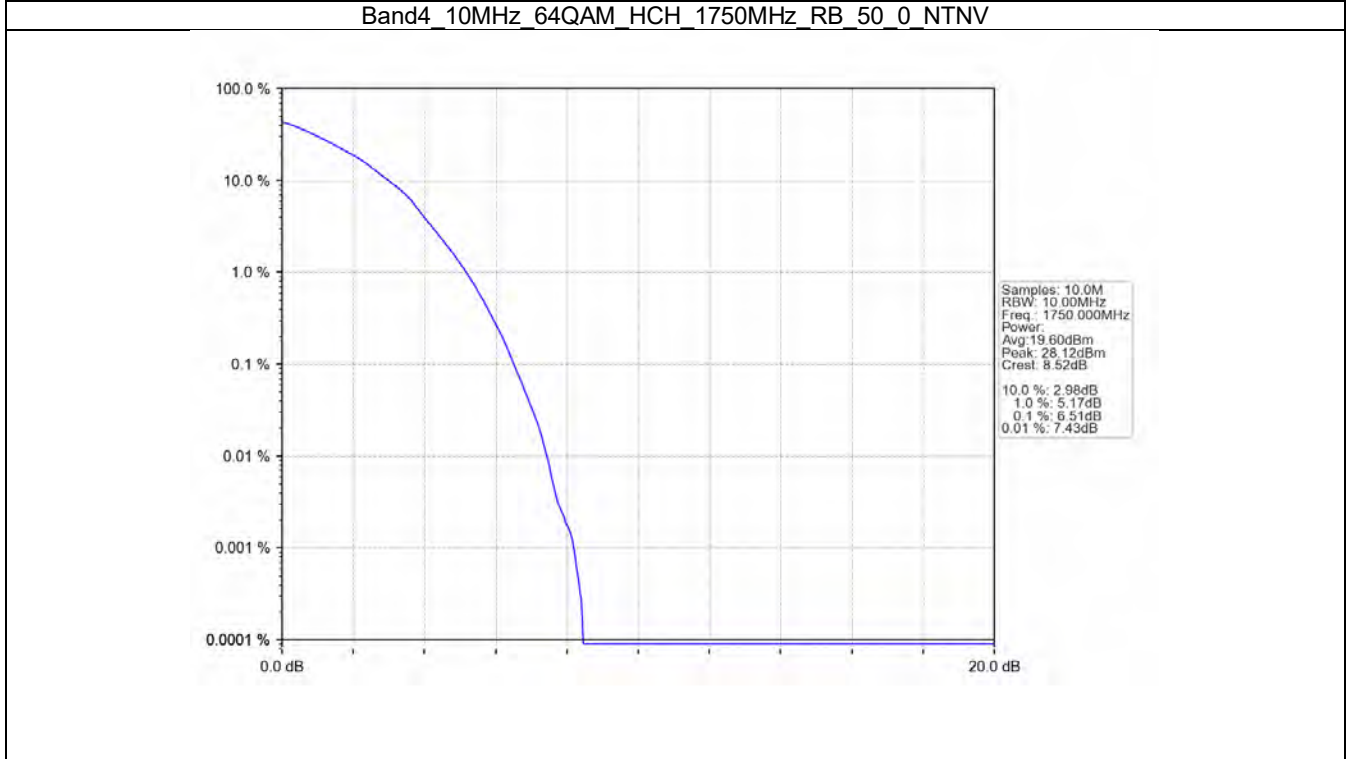
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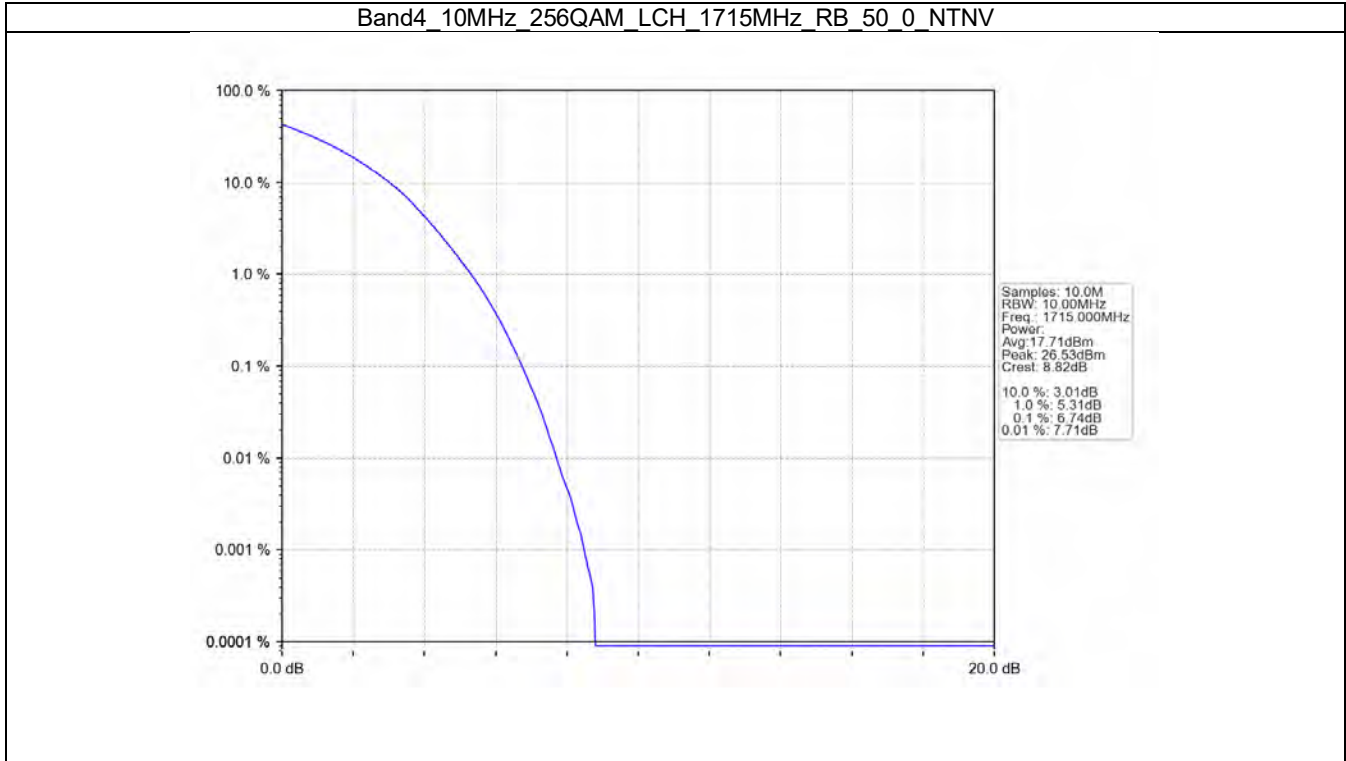
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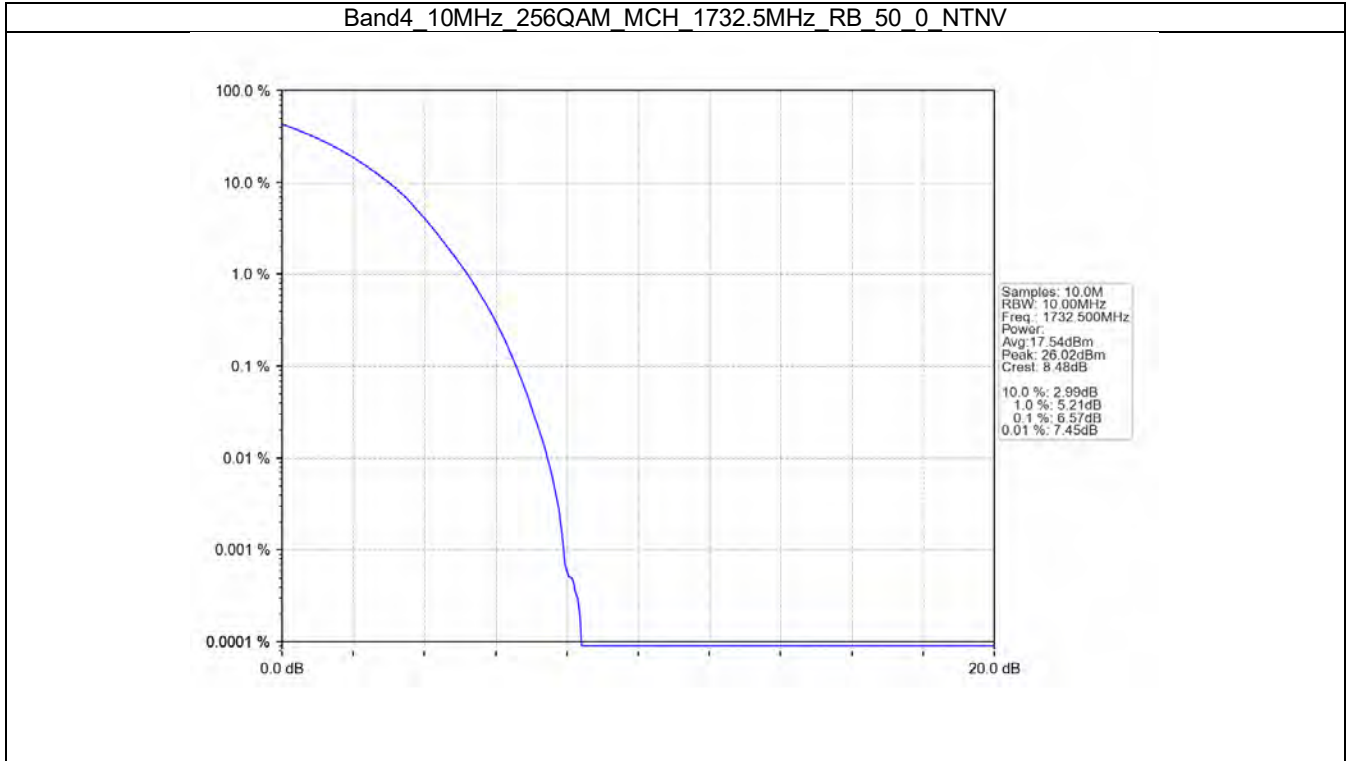
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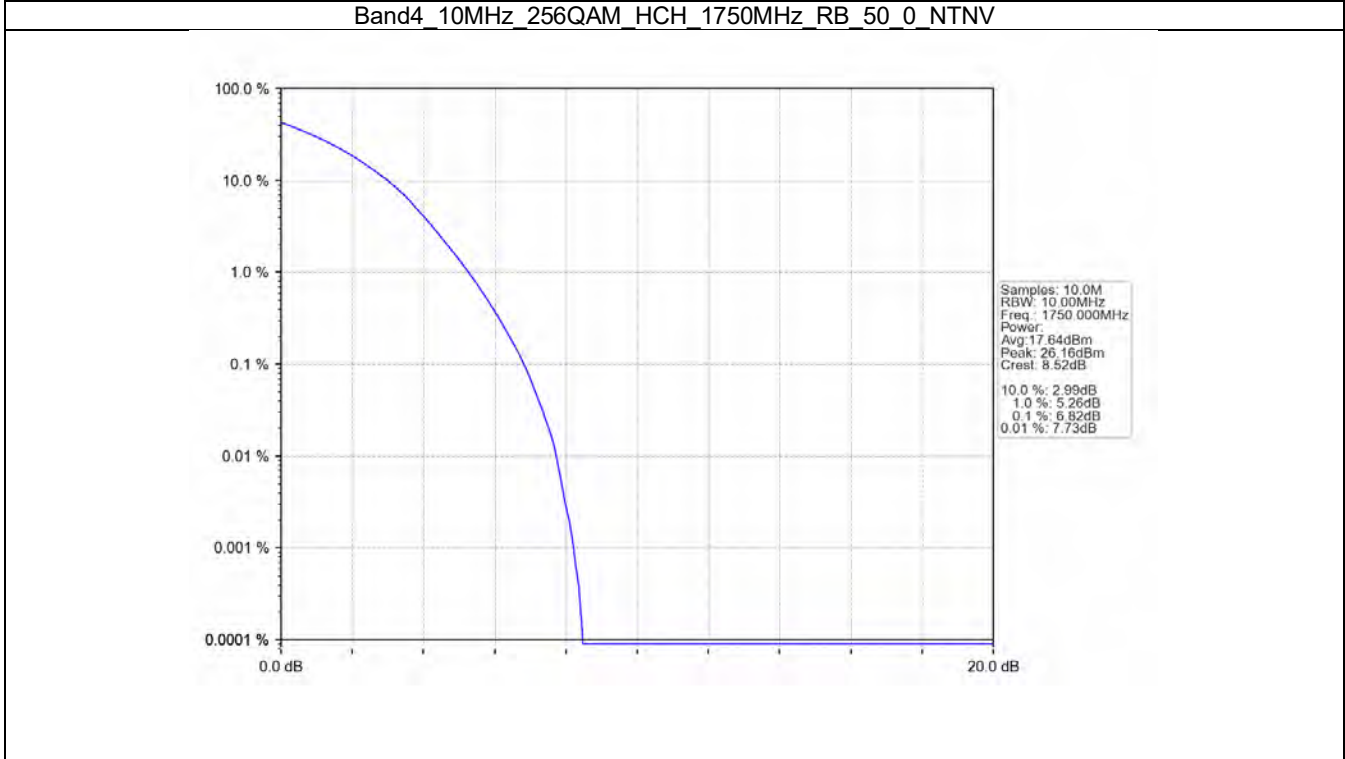
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4.5 B4_15MHz

4.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	6.40	<=13	Pass
	1732.5	75	0	6.15	<=13	Pass
	1747.5	75	0	6.43	<=13	Pass
16QAM	1717.5	75	0	6.39	<=13	Pass
	1732.5	75	0	6.15	<=13	Pass
	1747.5	75	0	6.44	<=13	Pass
64QAM	1717.5	75	0	6.39	<=13	Pass
	1732.5	75	0	6.15	<=13	Pass
	1747.5	75	0	6.43	<=13	Pass
256QAM	1717.5	75	0	6.72	<=13	Pass
	1732.5	75	0	6.59	<=13	Pass
	1747.5	75	0	6.69	<=13	Pass

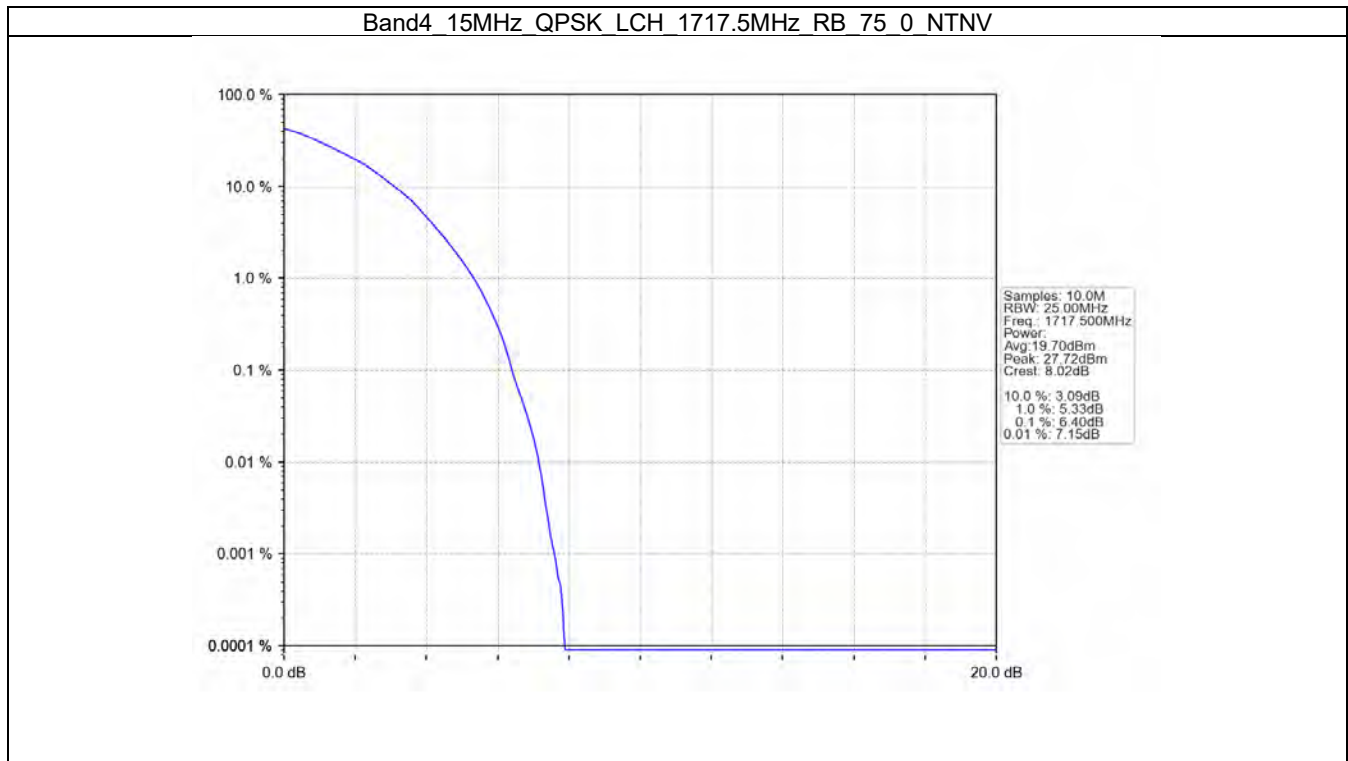


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4.5.2 Test Graph



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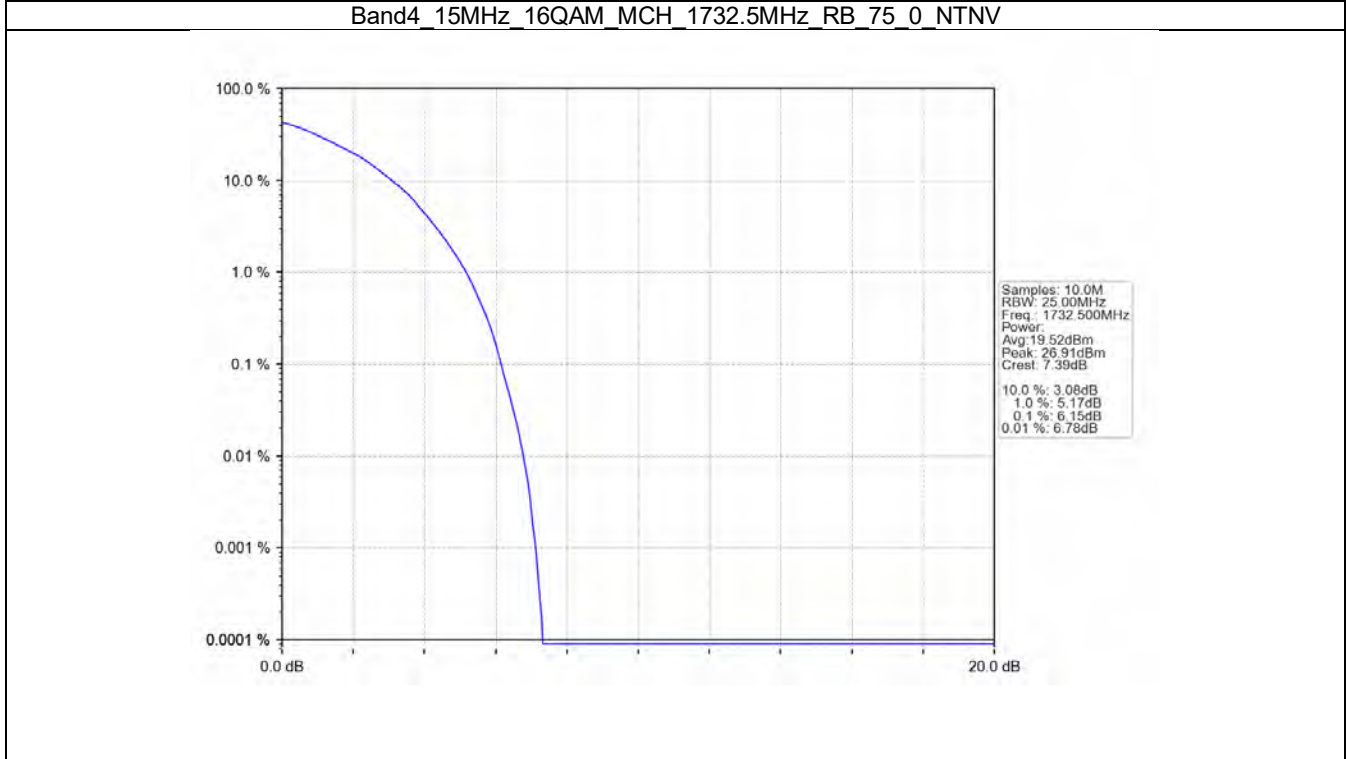
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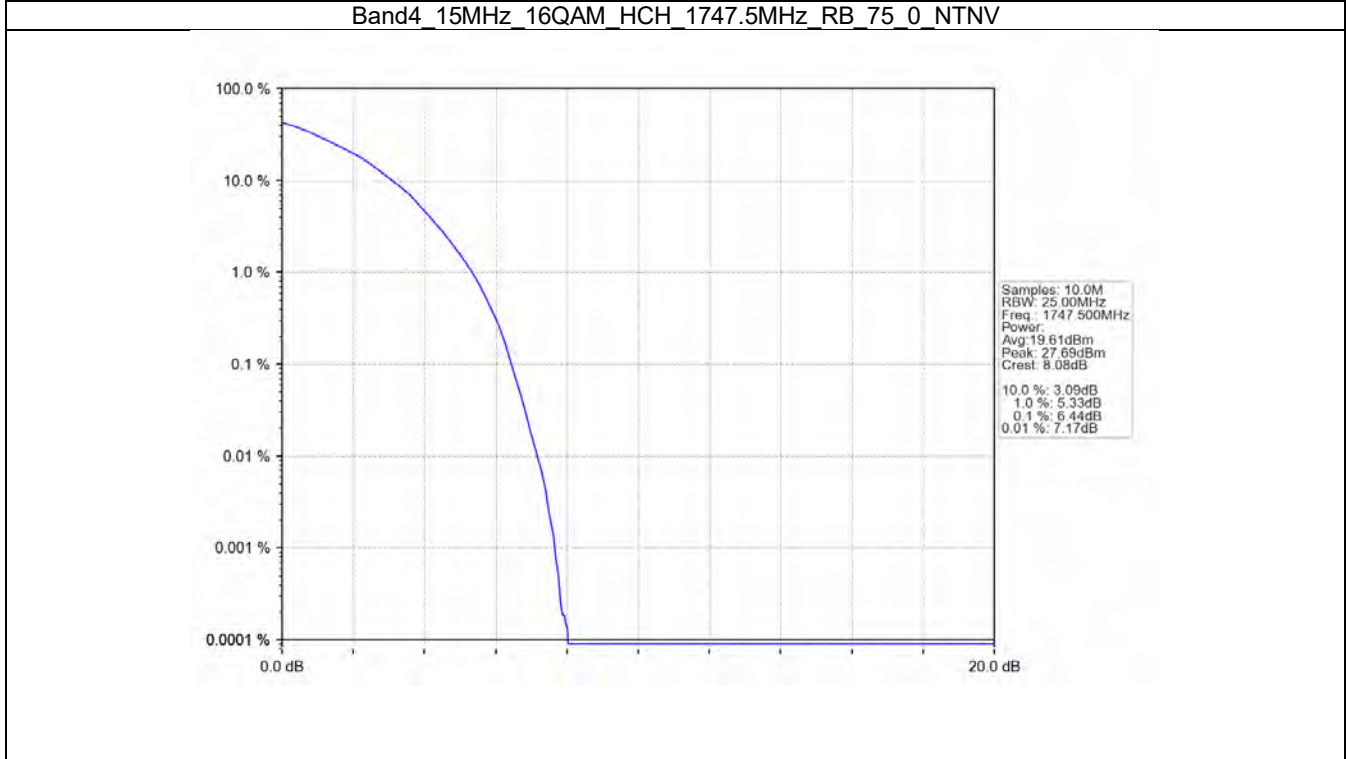
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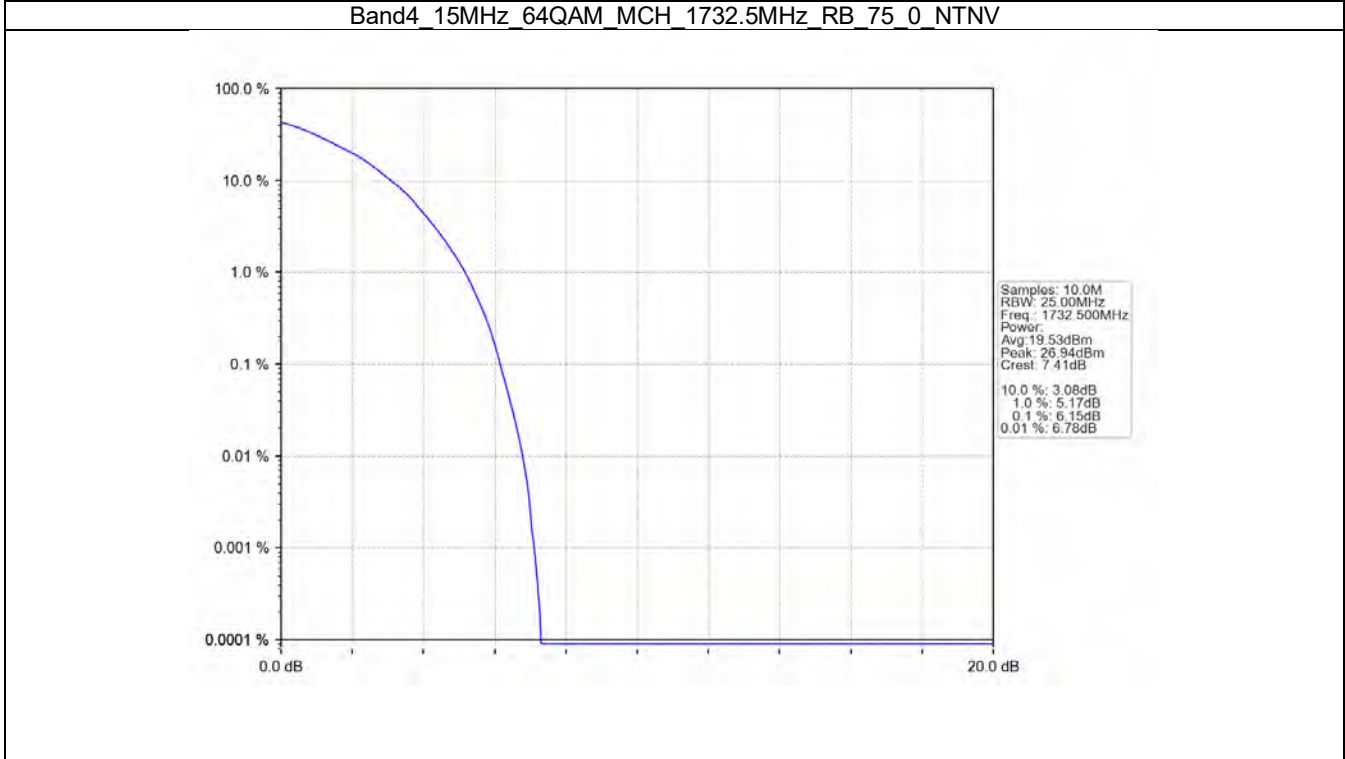
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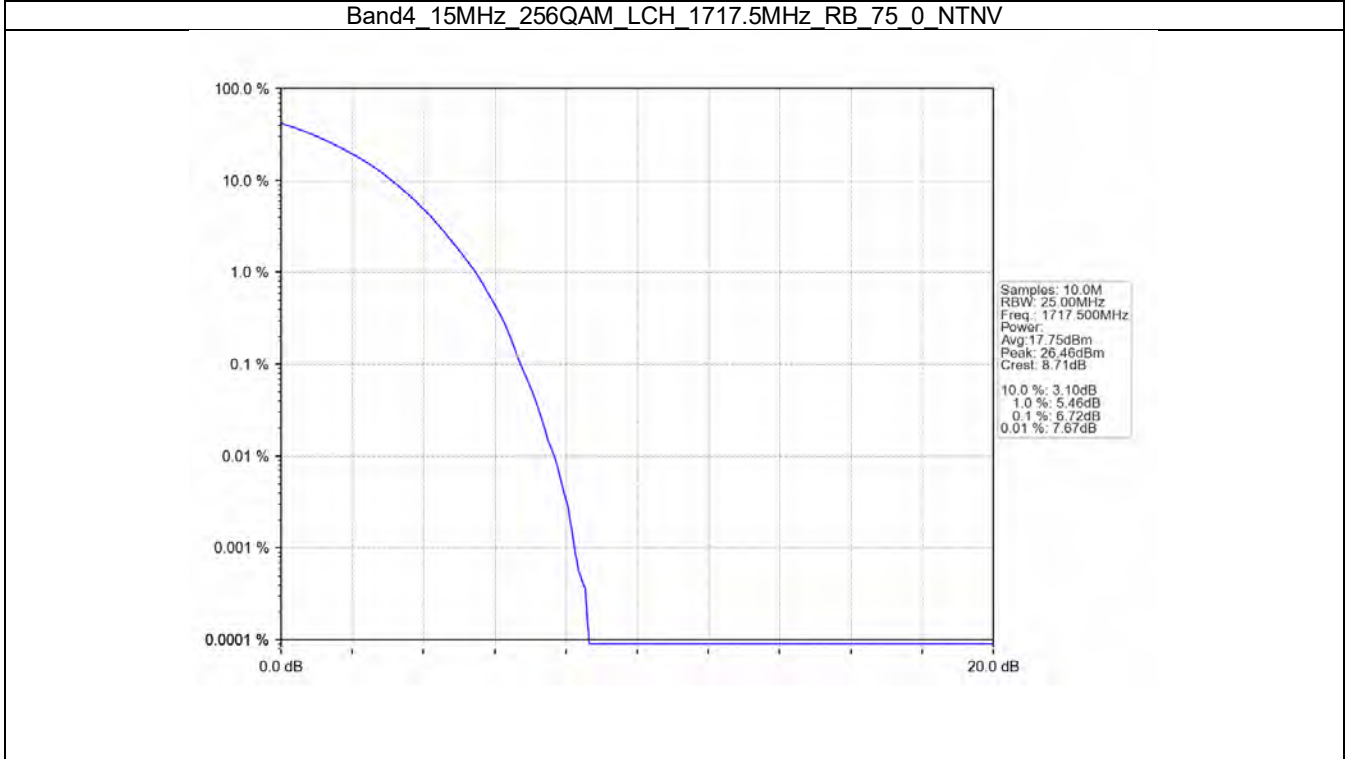
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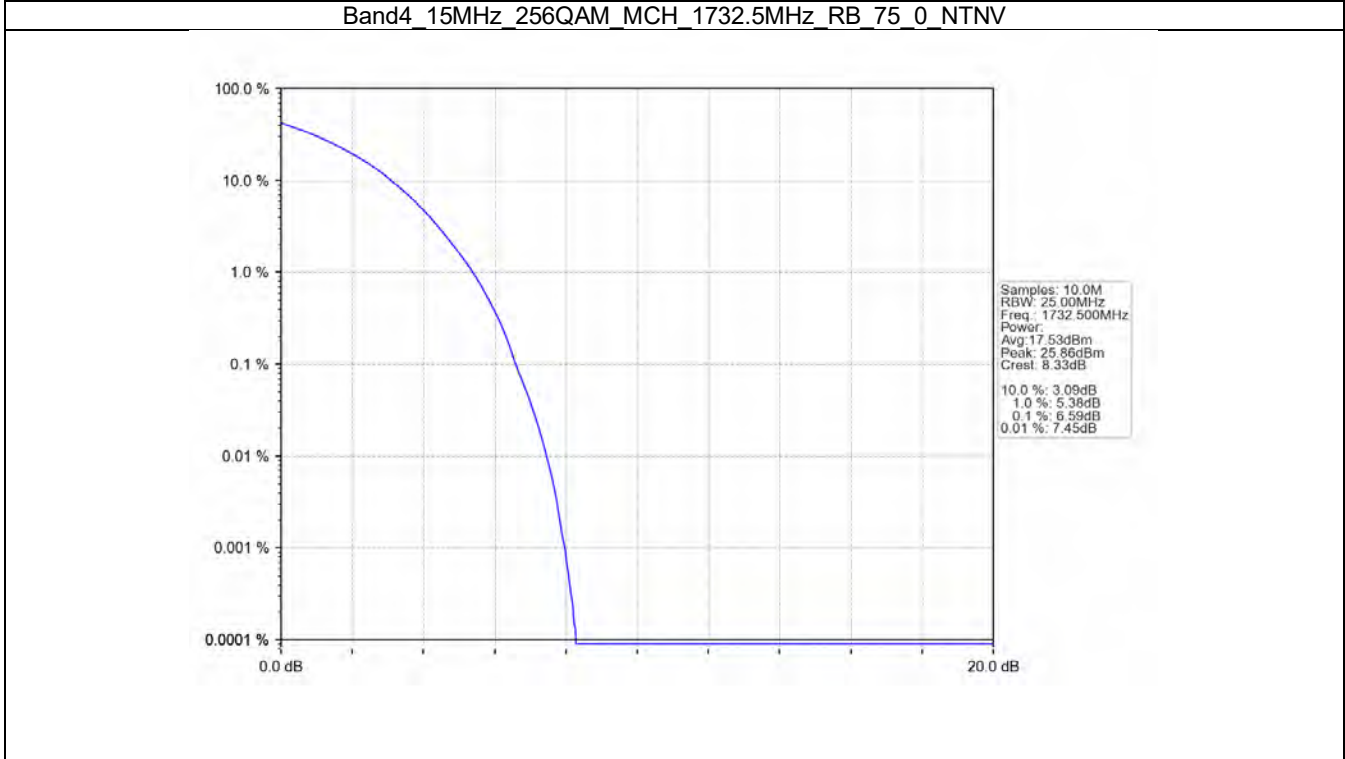
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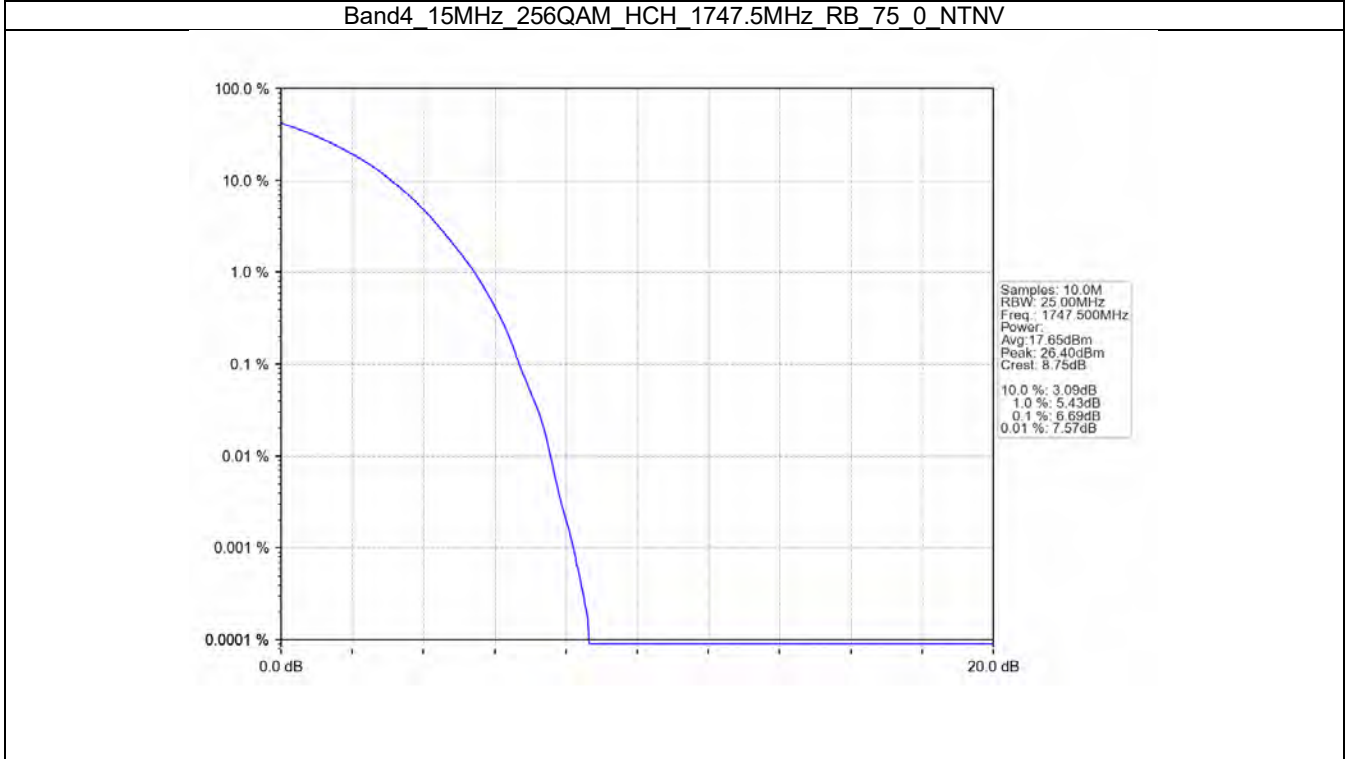
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4.6 B4_20MHz

4.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict	
		Size	Offset	Result	Limit		
QPSK	1720	100	0	6.40	<=13	Pass	
	1732.5	100	0	6.24	<=13	Pass	
	1745	100	0	6.38	<=13	Pass	
16QAM	1720	100	0	6.40	<=13	Pass	
	1732.5	100	0	6.24	<=13	Pass	
	1745	100	0	6.37	<=13	Pass	
64QAM	1720	100	0	6.40	<=13	Pass	
	1732.5	100	0	6.25	<=13	Pass	
	1745	100	0	6.37	<=13	Pass	
256QAM	1720	100	0	6.75	<=13	Pass	
	1732.5	100	0	6.60	<=13	Pass	
	1745	100	0	6.64	<=13	Pass	

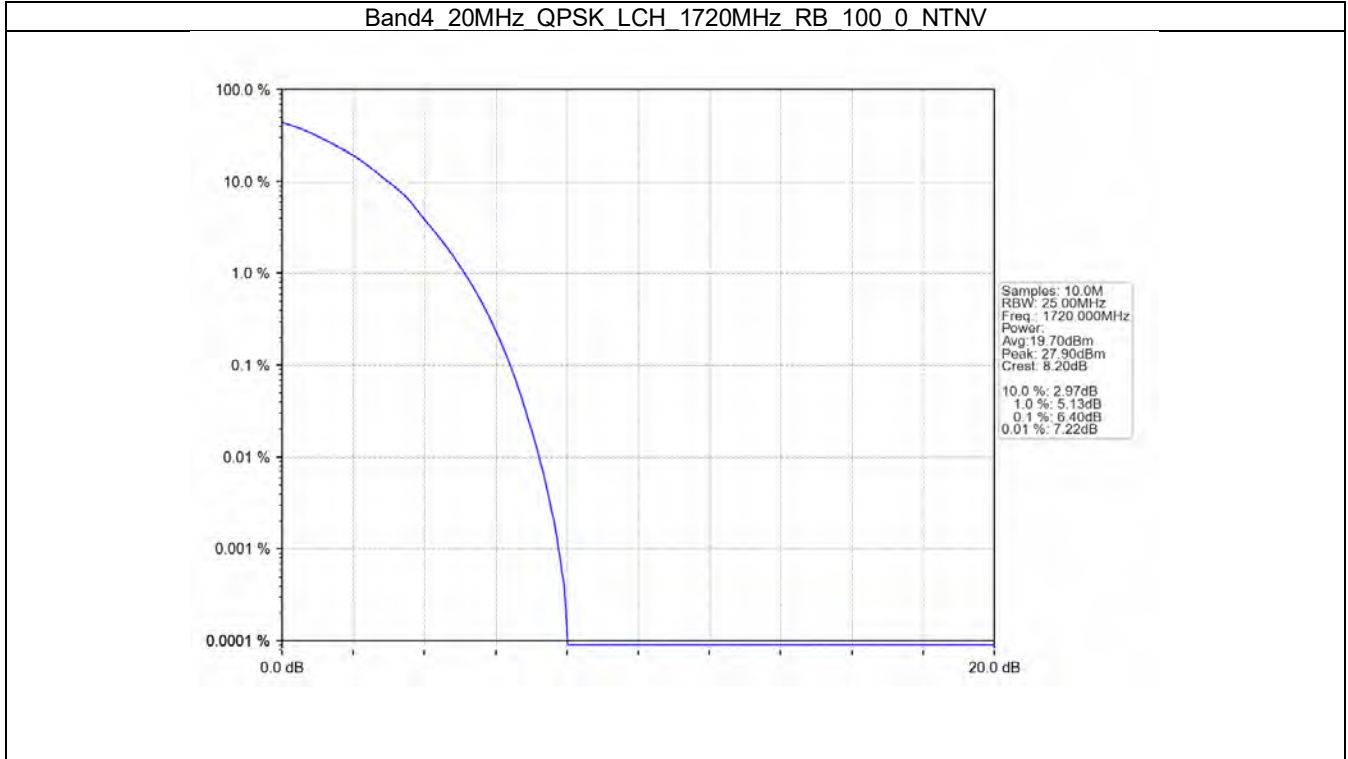


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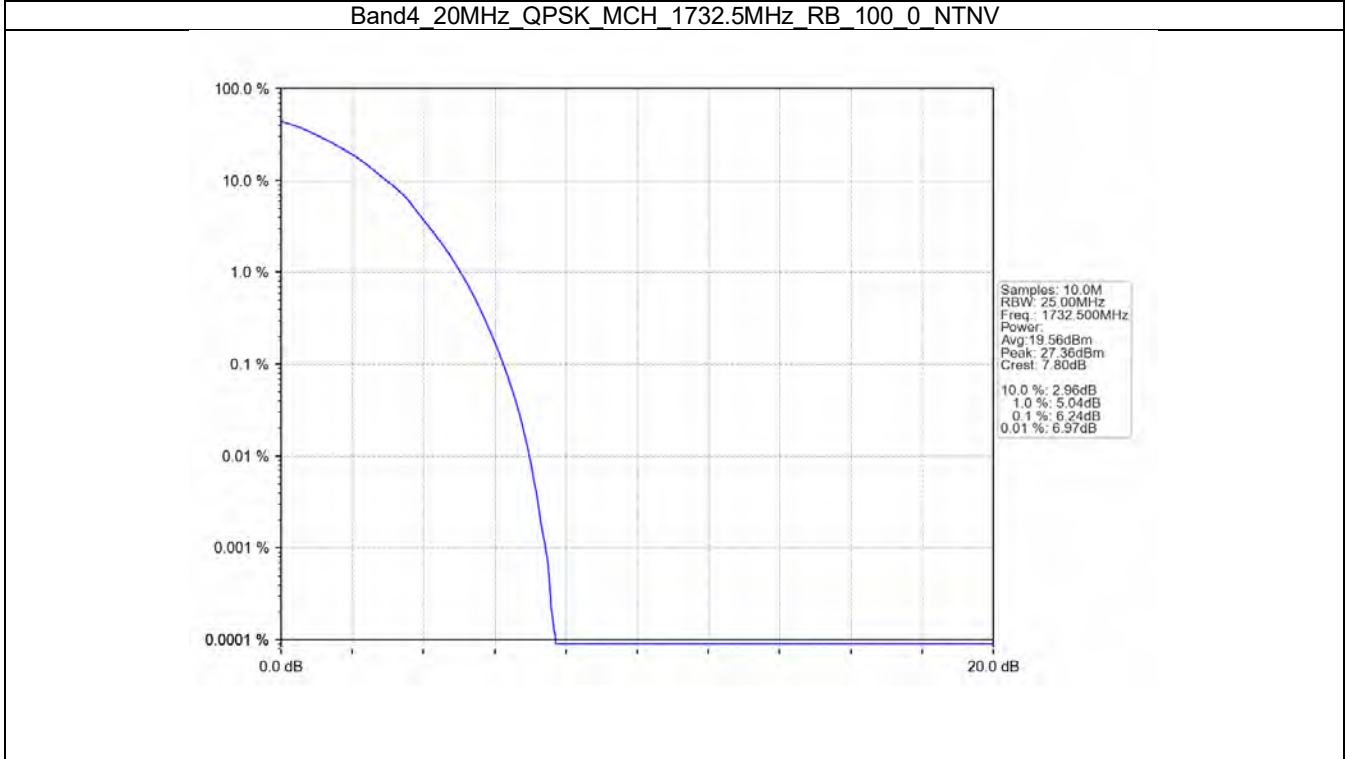
4.6.2 Test Graph



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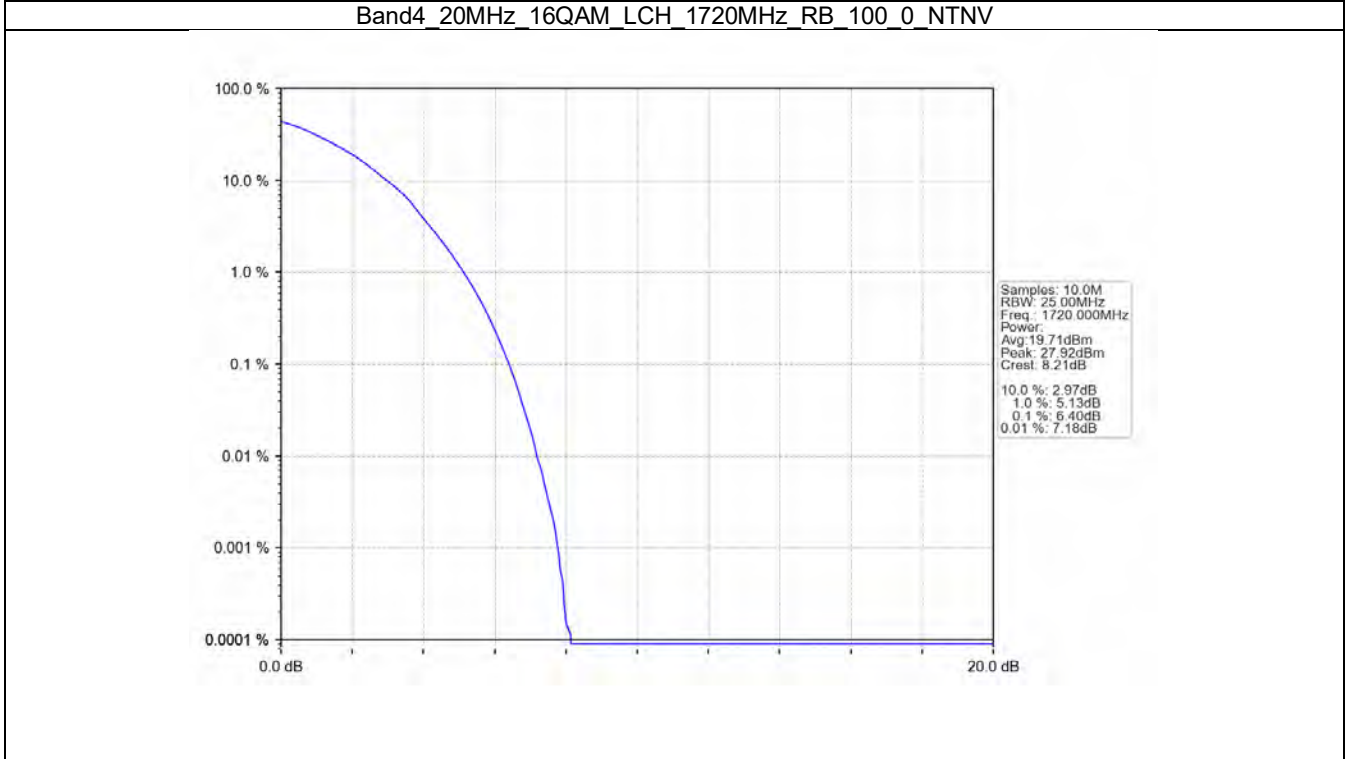


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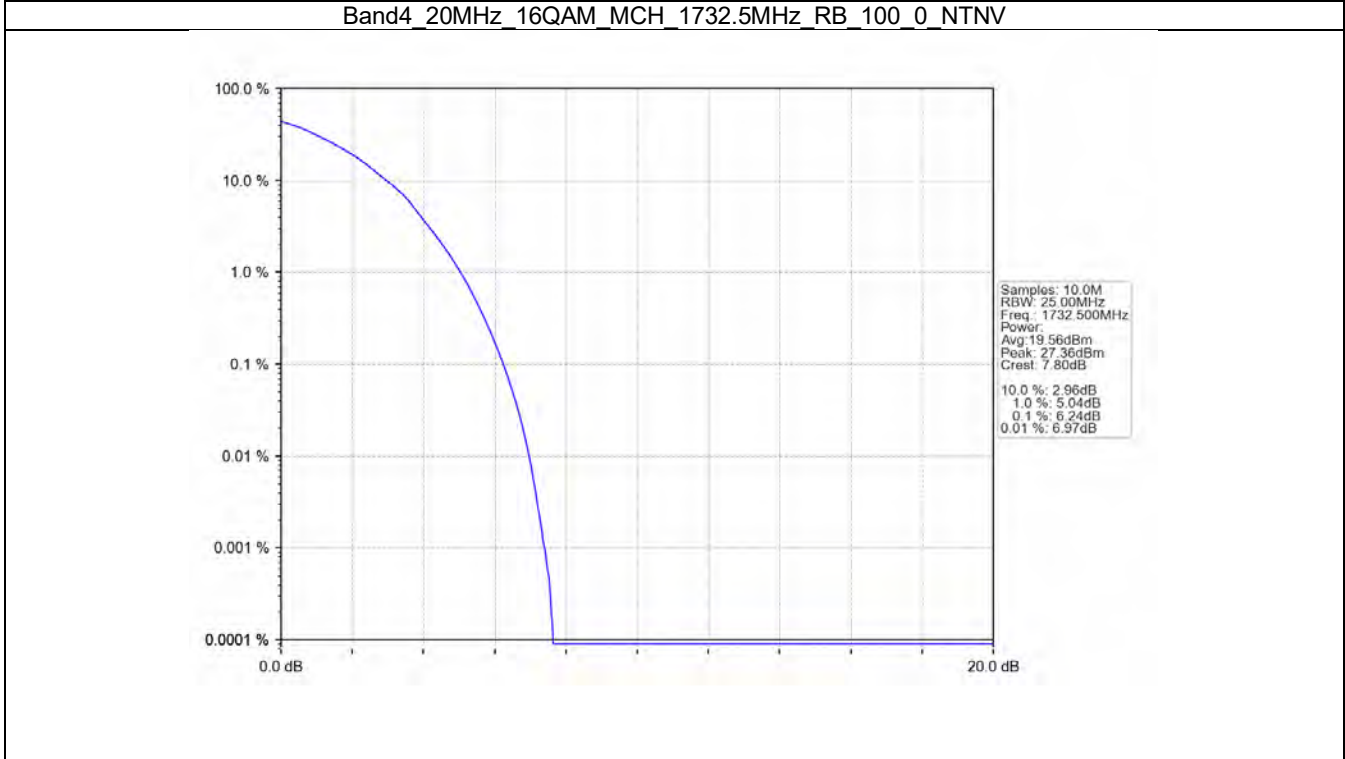


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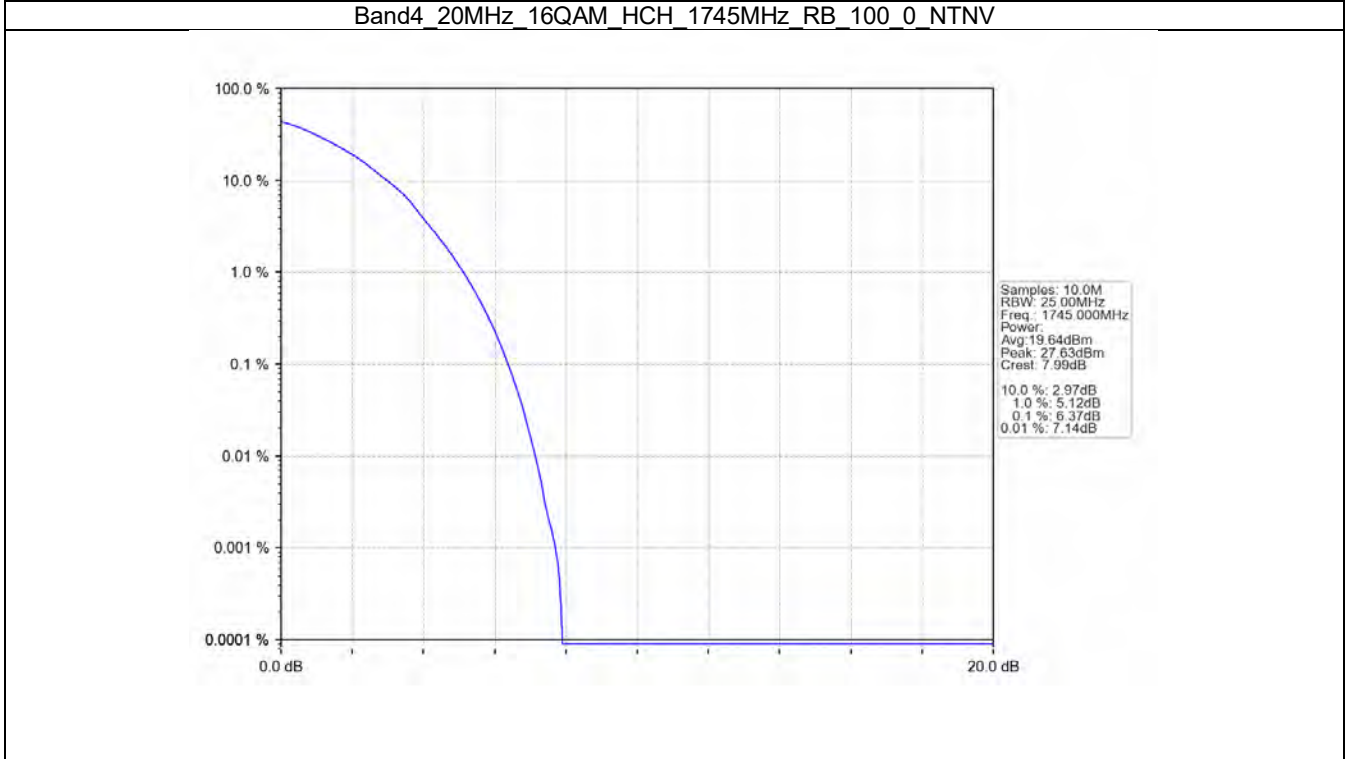
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Report No.: SEWM2311000466RG01

Rev.: 01

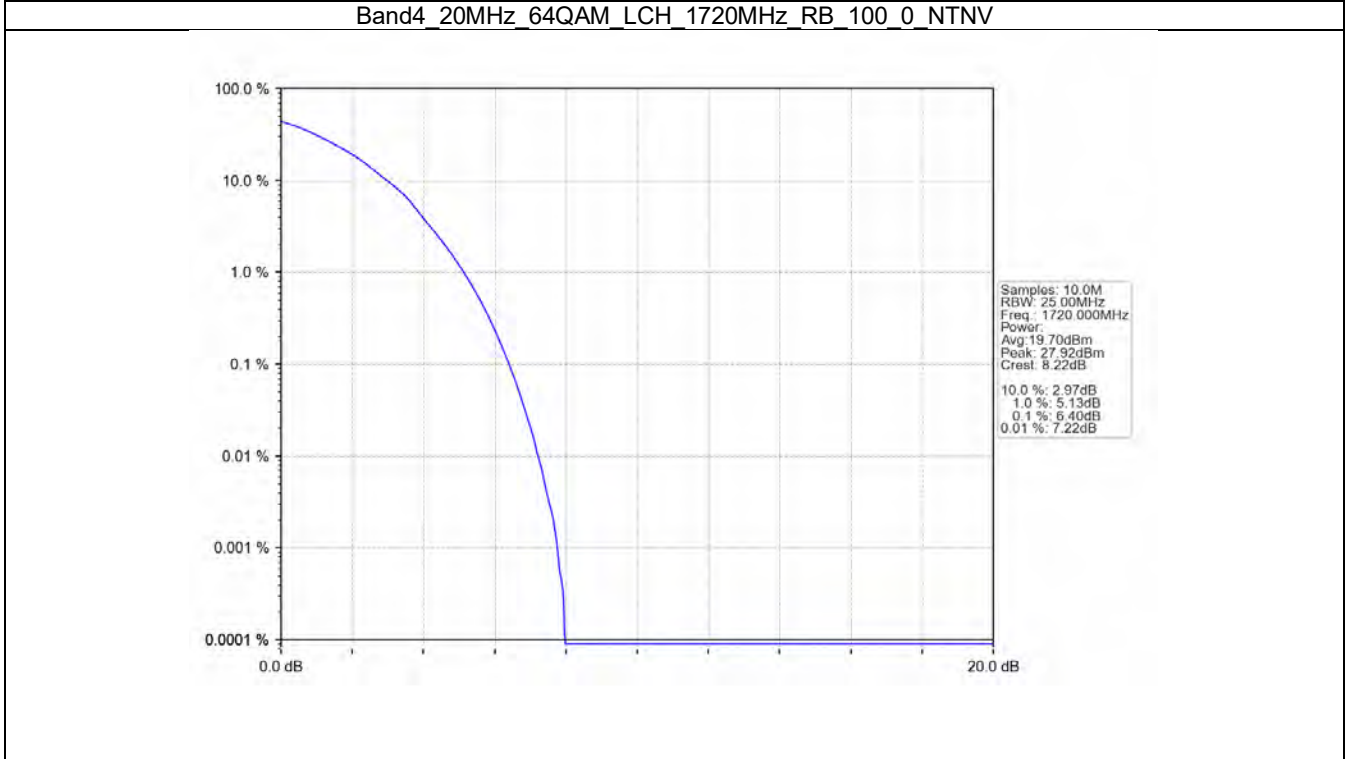
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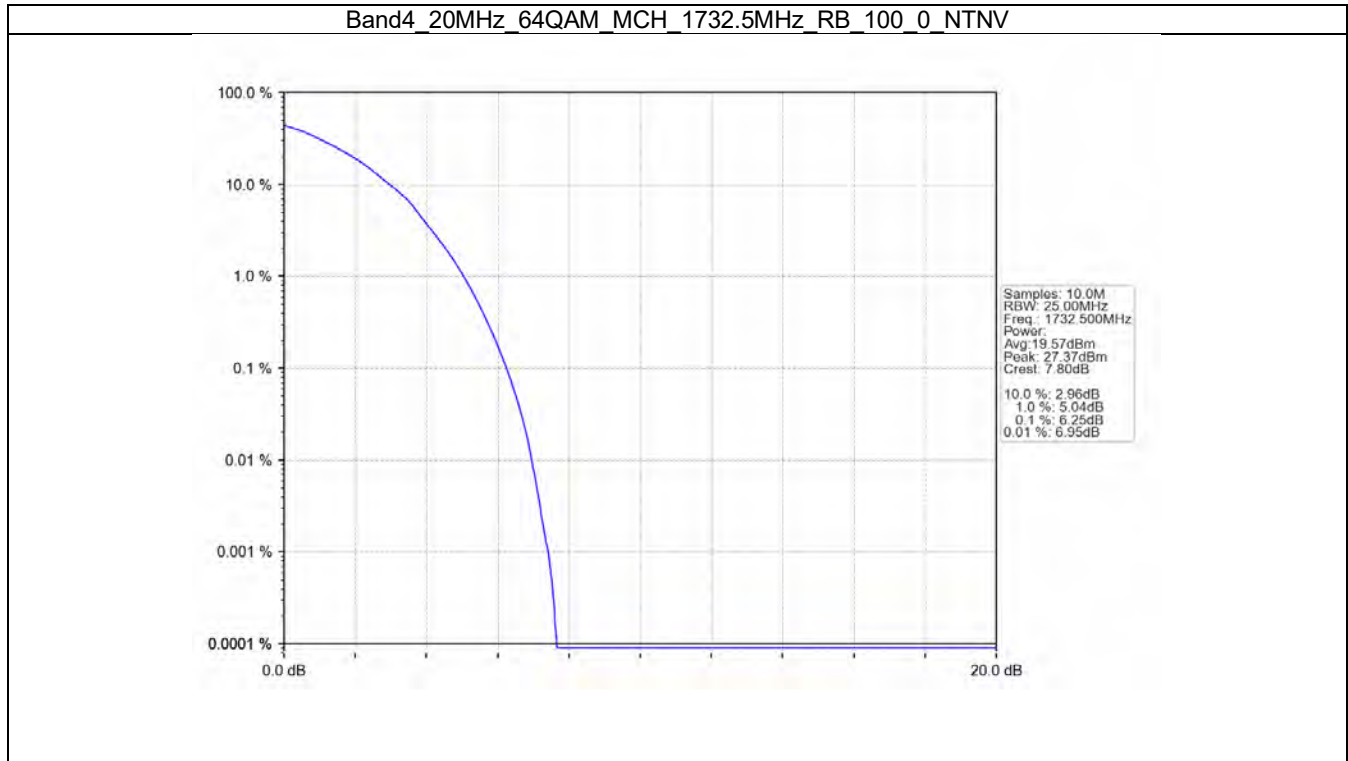
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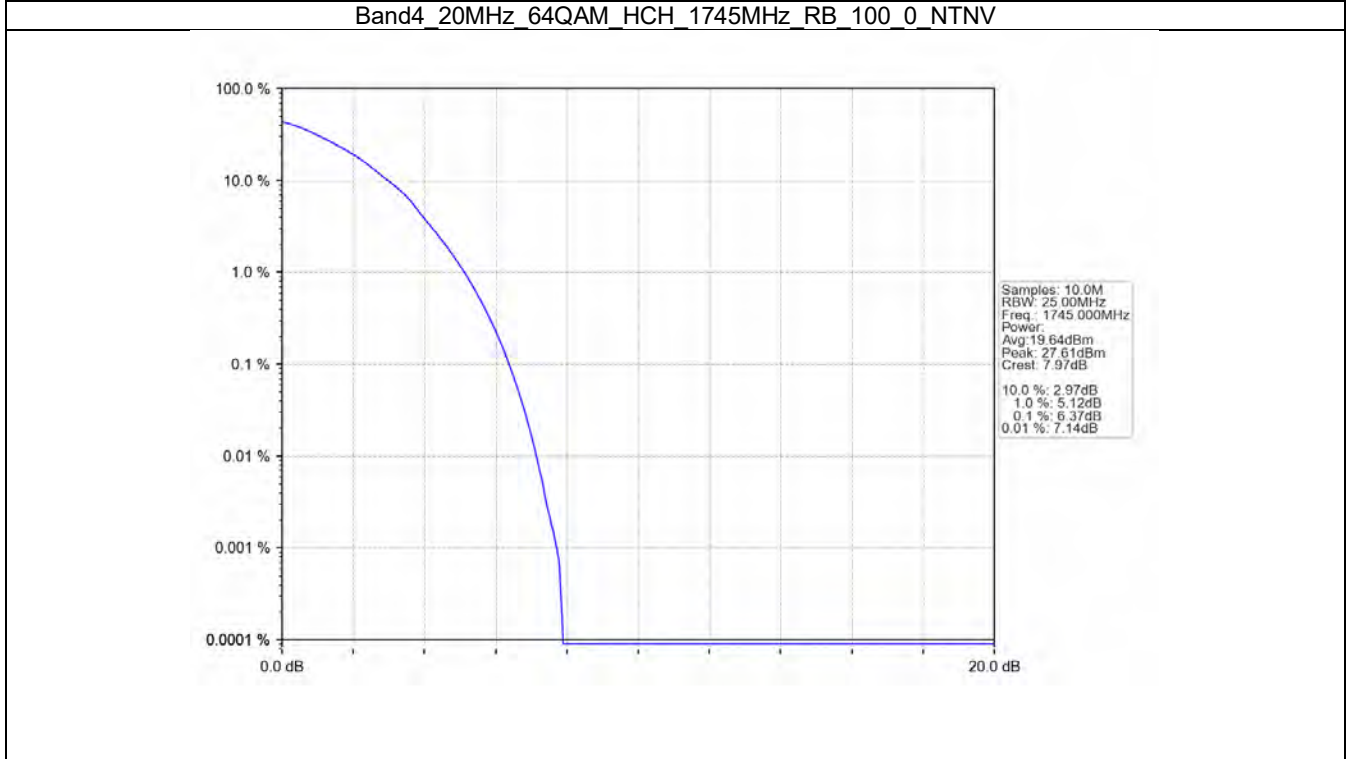
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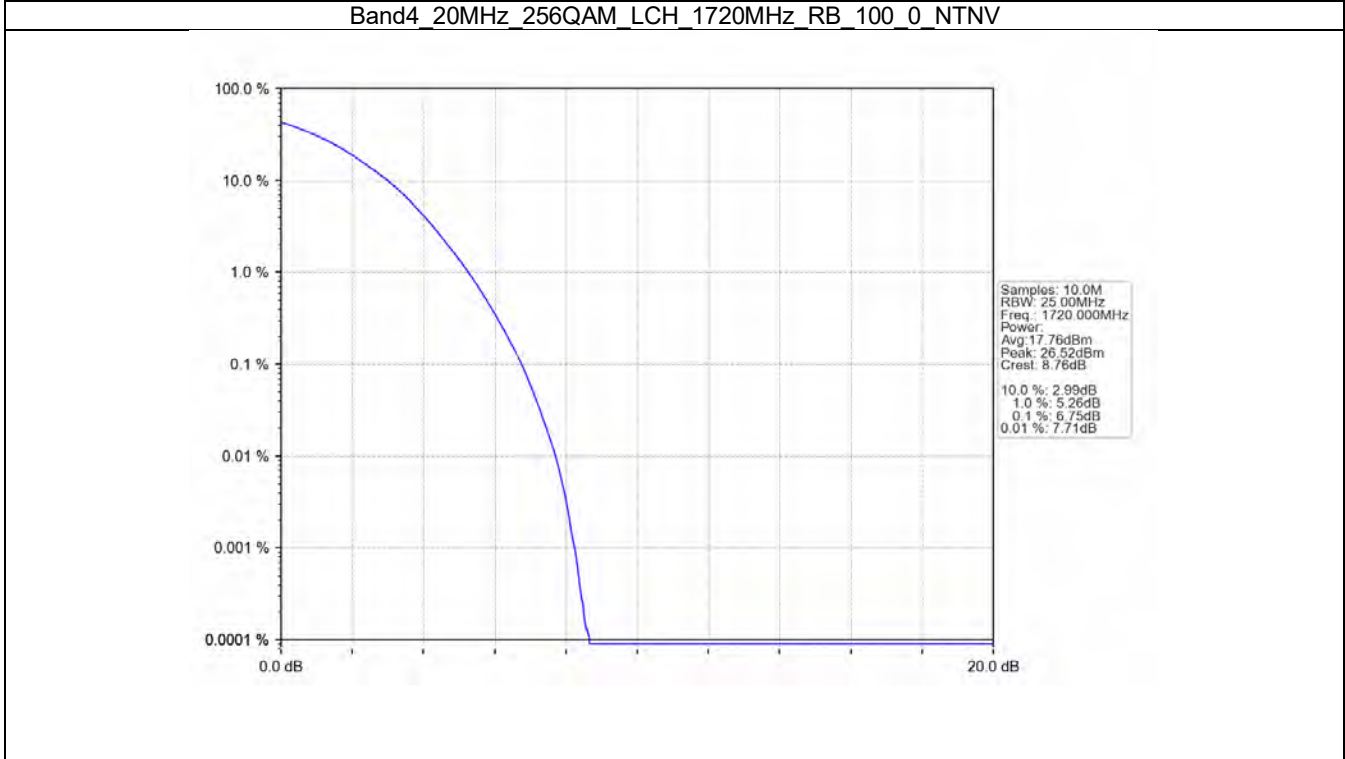
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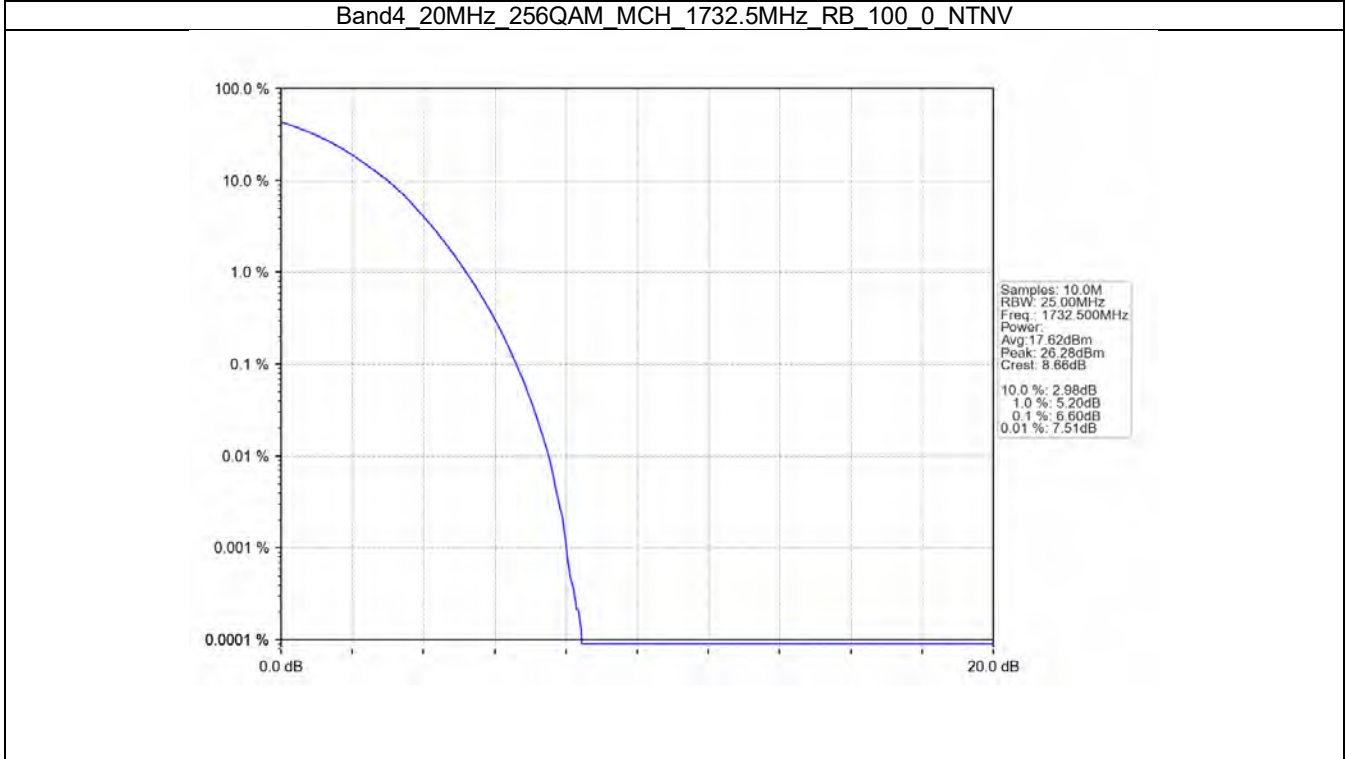


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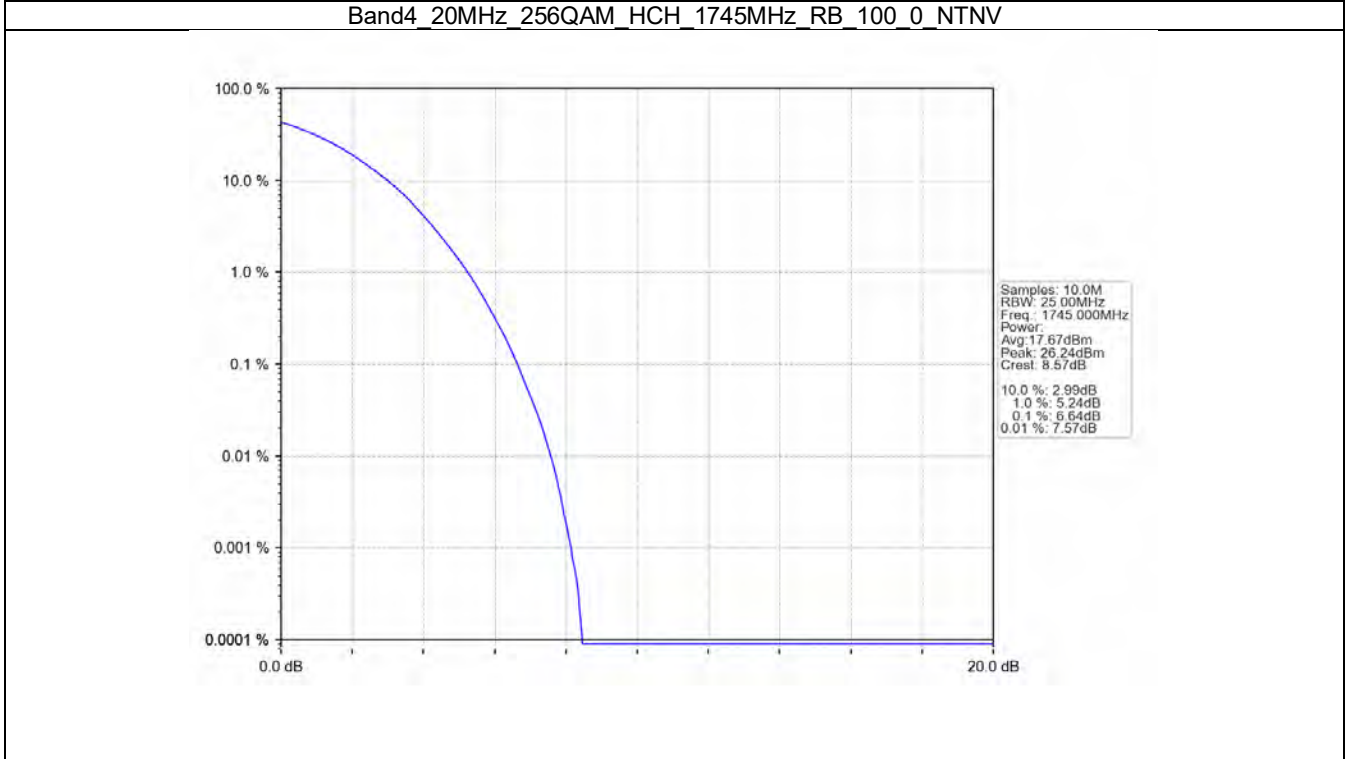
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5. Spurious Emission & Band Edges

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

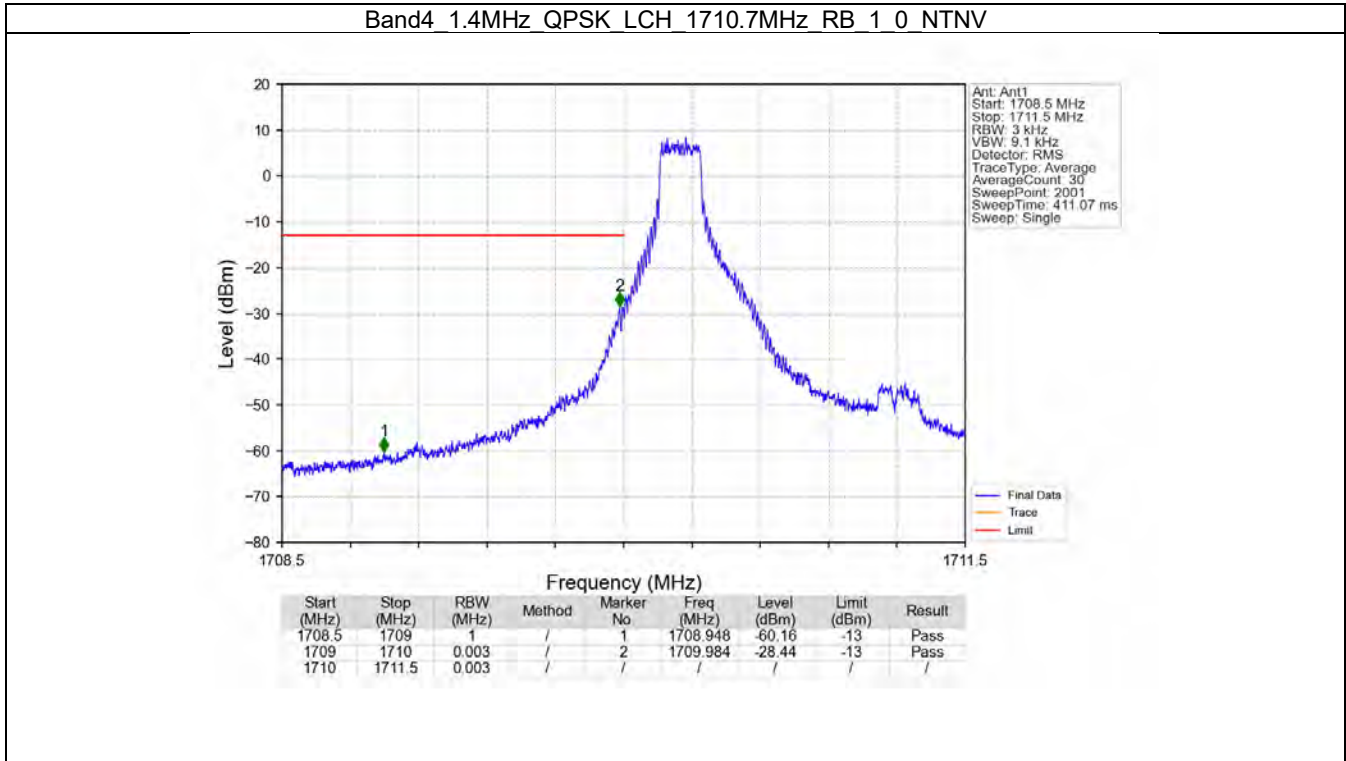


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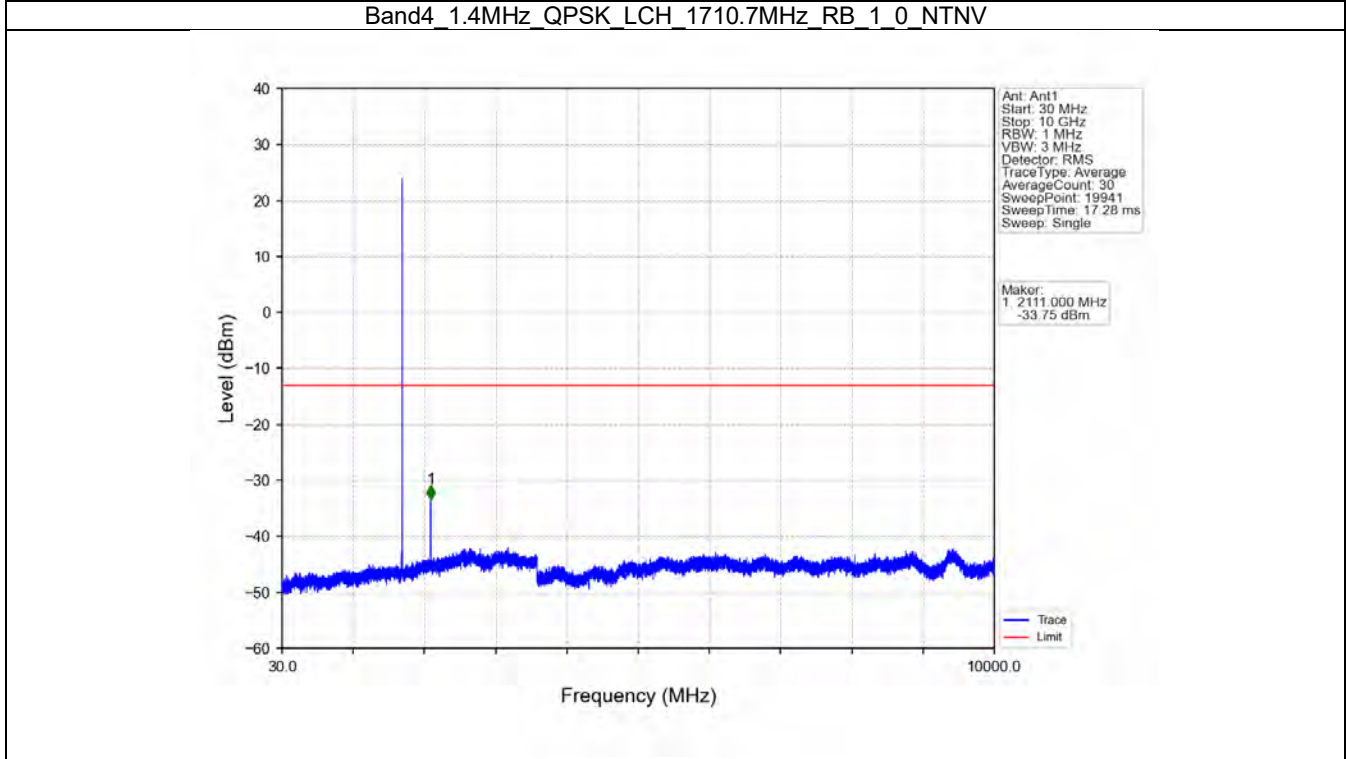
5.1.2 Test Graph



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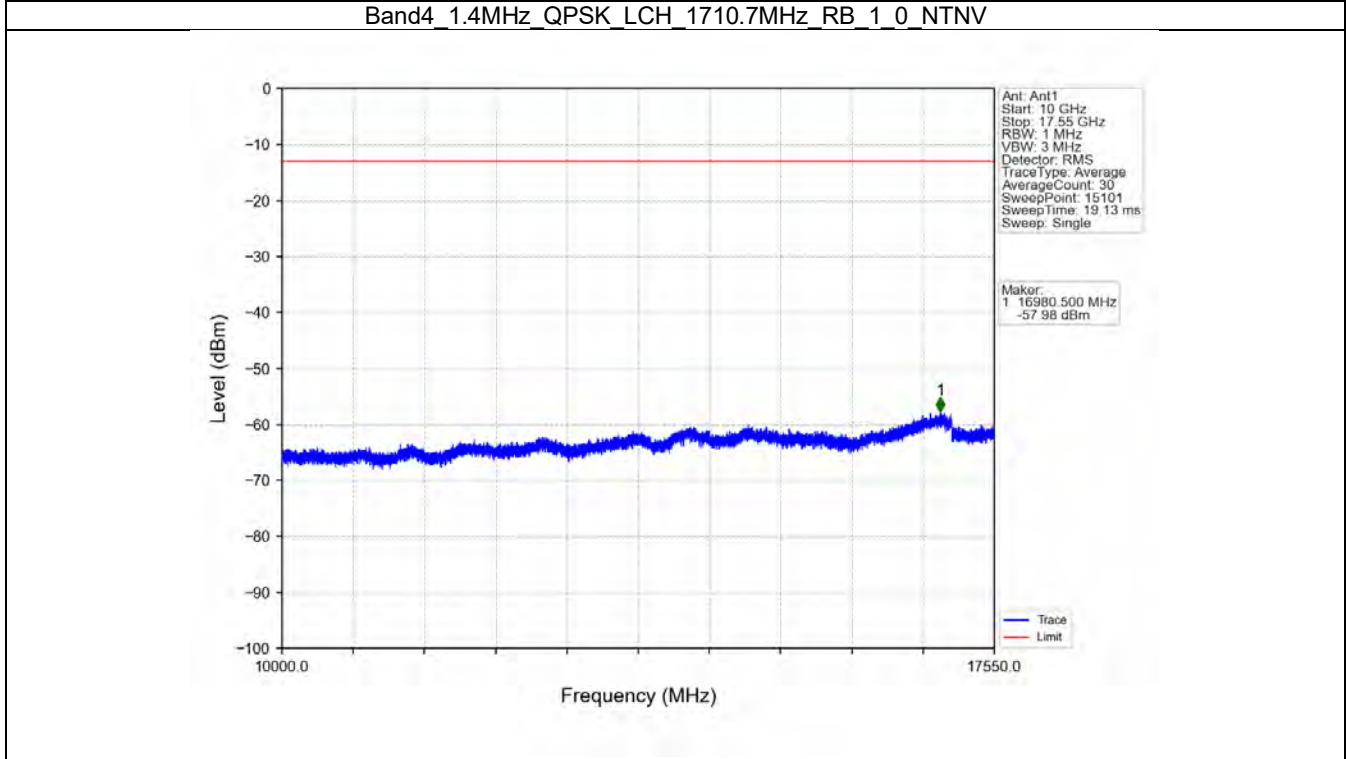
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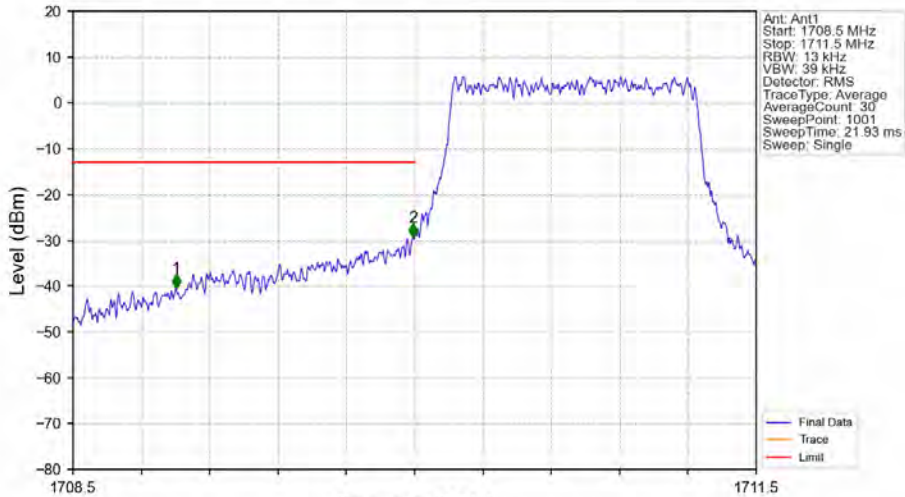


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Band4 1.4MHz QPSK LCH 1710.7MHz RB 6 0 NTN



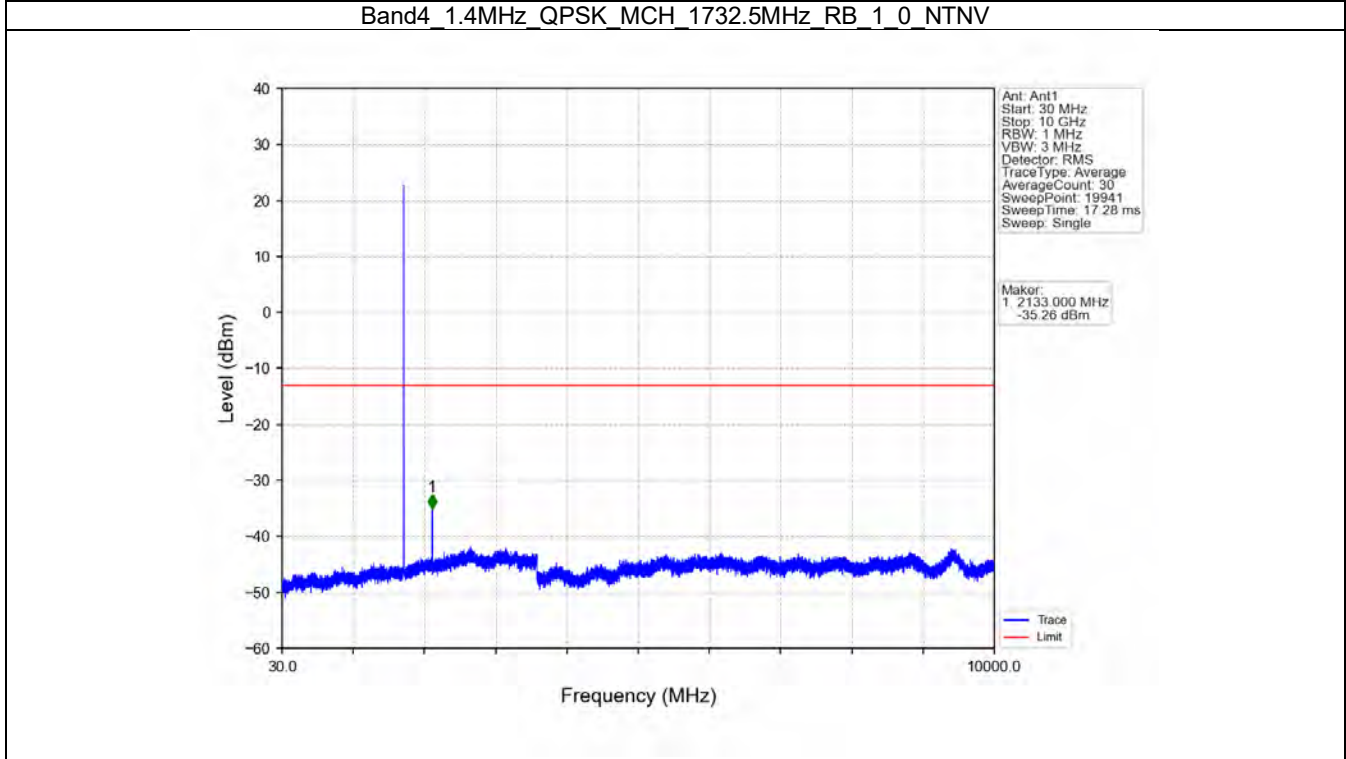
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.953	-40.47	-13	Pass
1709	1710	0.013	/	2	1709.994	-29.46	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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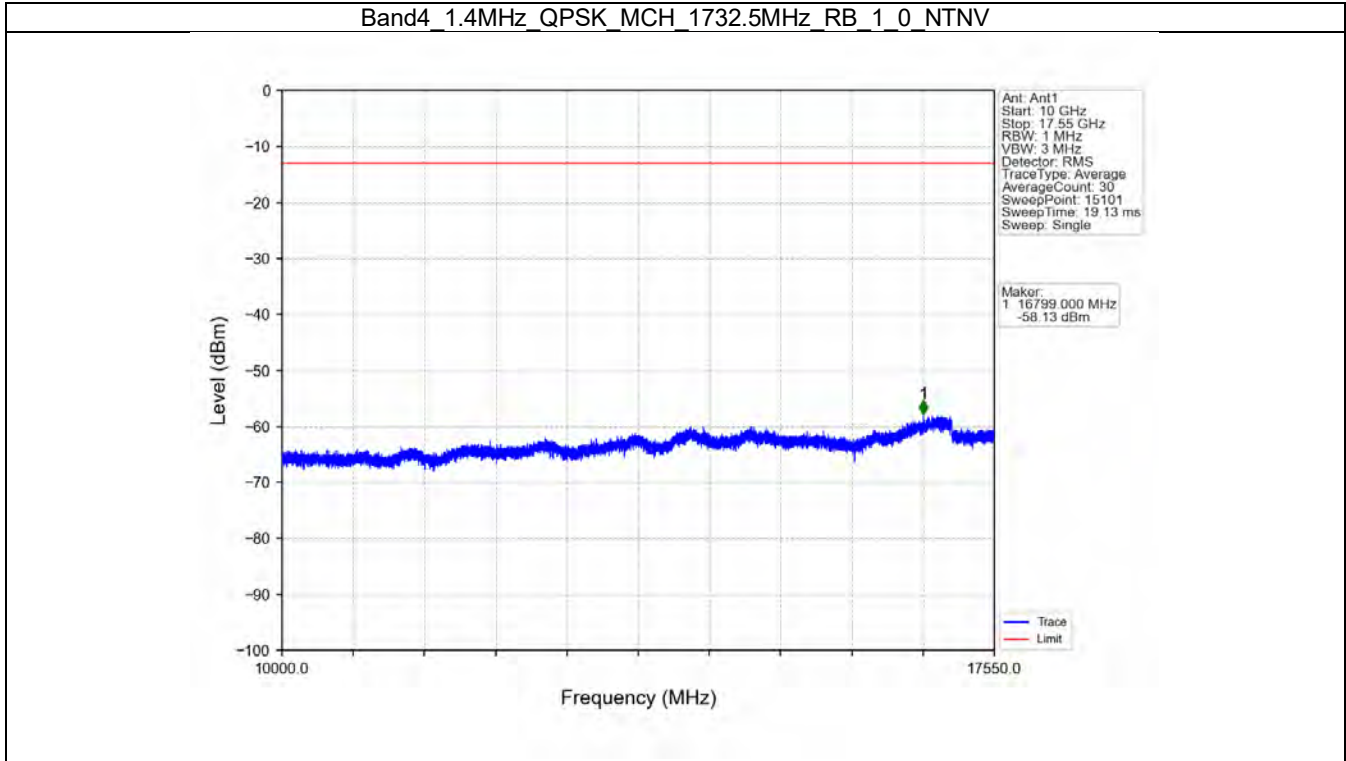
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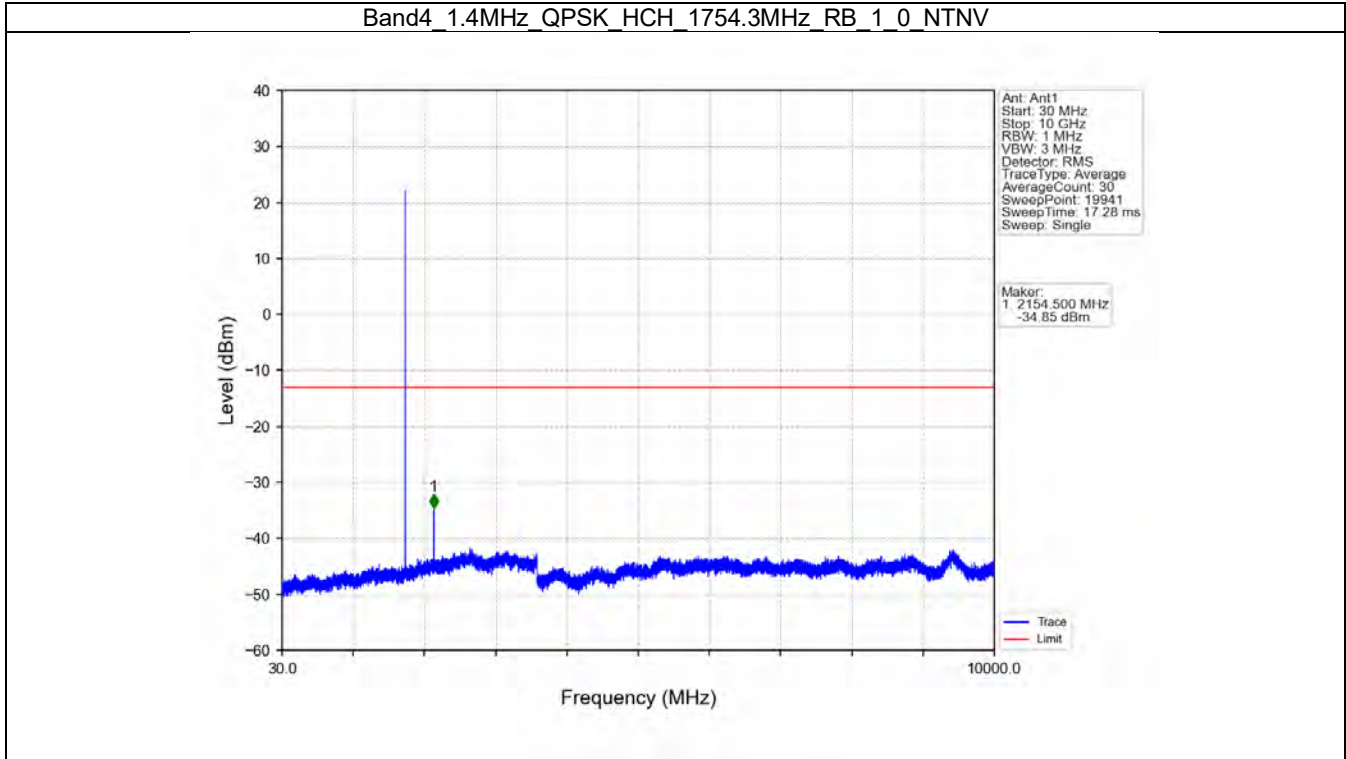
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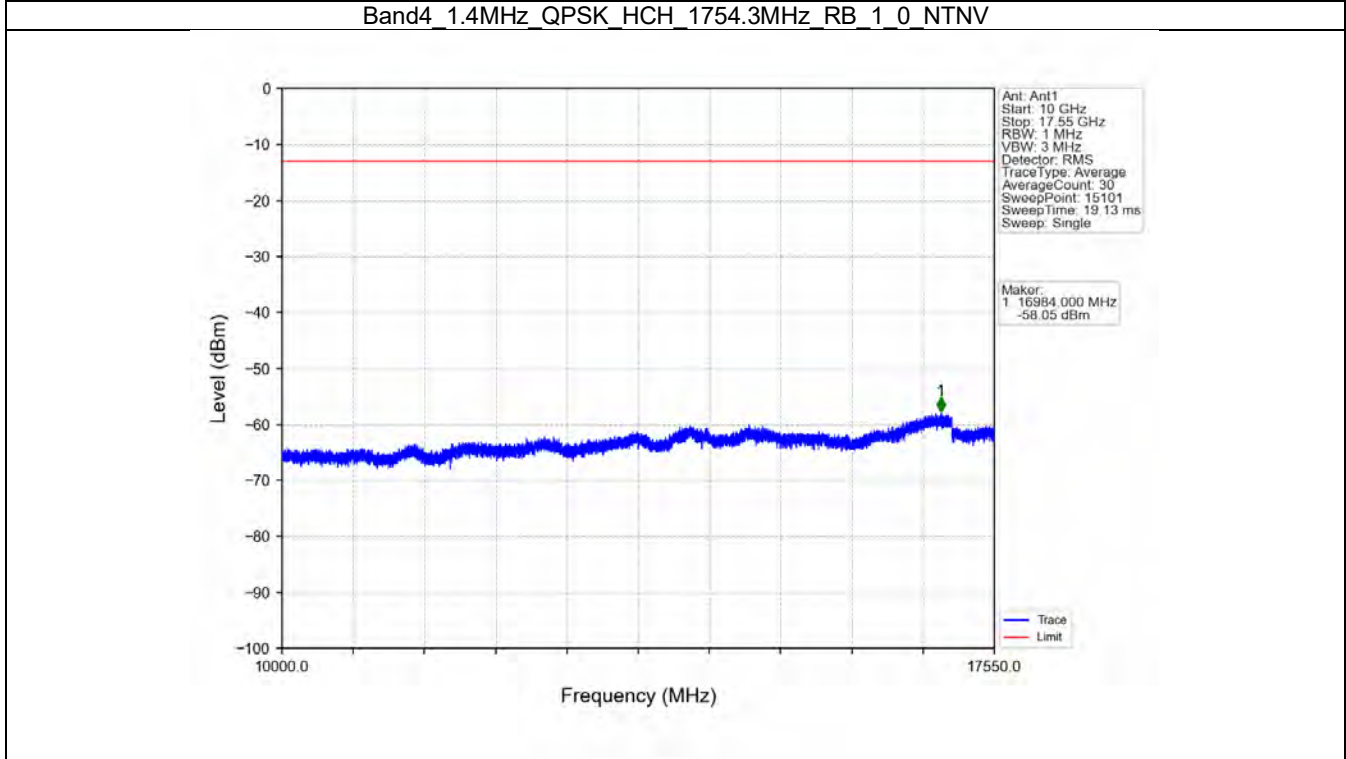
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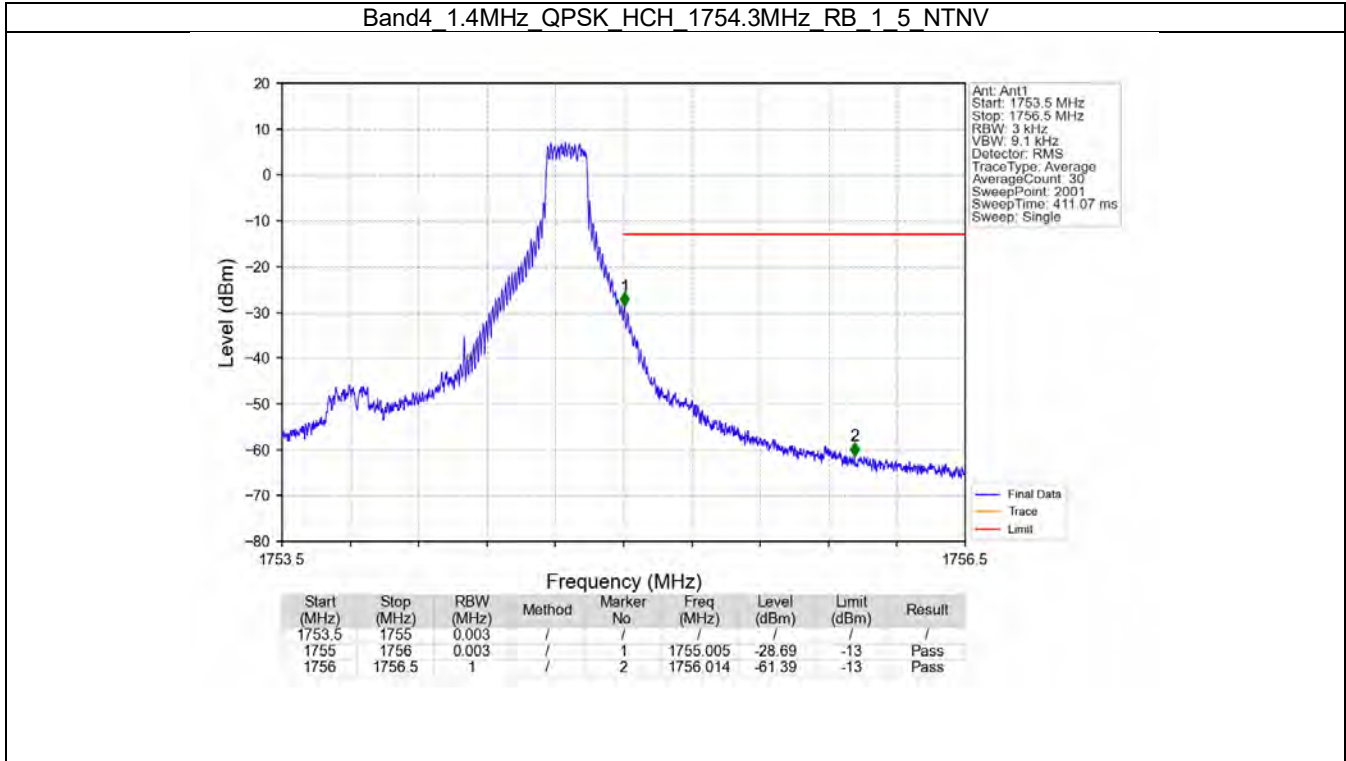
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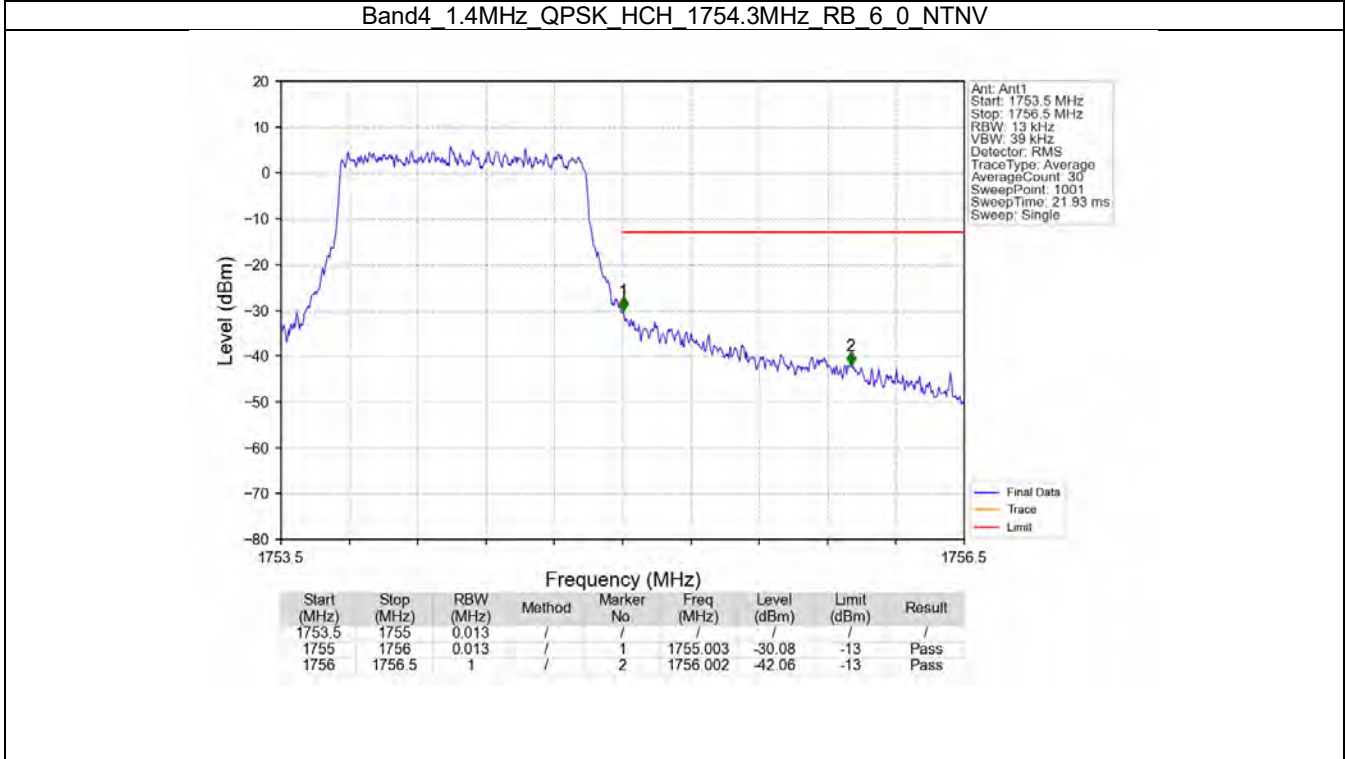
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Report No.: SEWM2311000466RG01

Rev.: 01

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5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	1711.5	1	0	Refer To Test Graph		Pass	
		15	0	Refer To Test Graph		Pass	
	1732.5	1	0	Refer To Test Graph		Pass	
		1	0	Refer To Test Graph		Pass	
	1753.5		14		Refer To Test Graph		Pass
		15	0		Refer To Test Graph		Pass

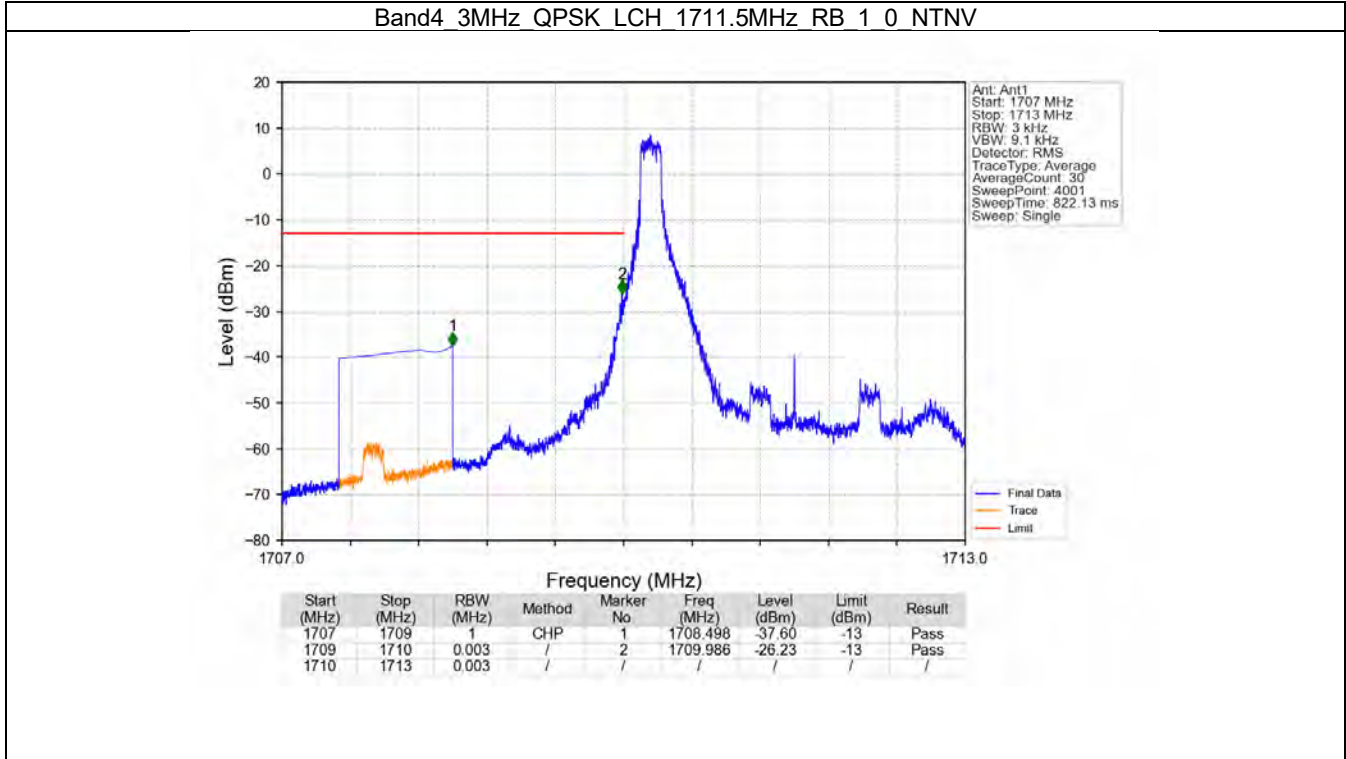


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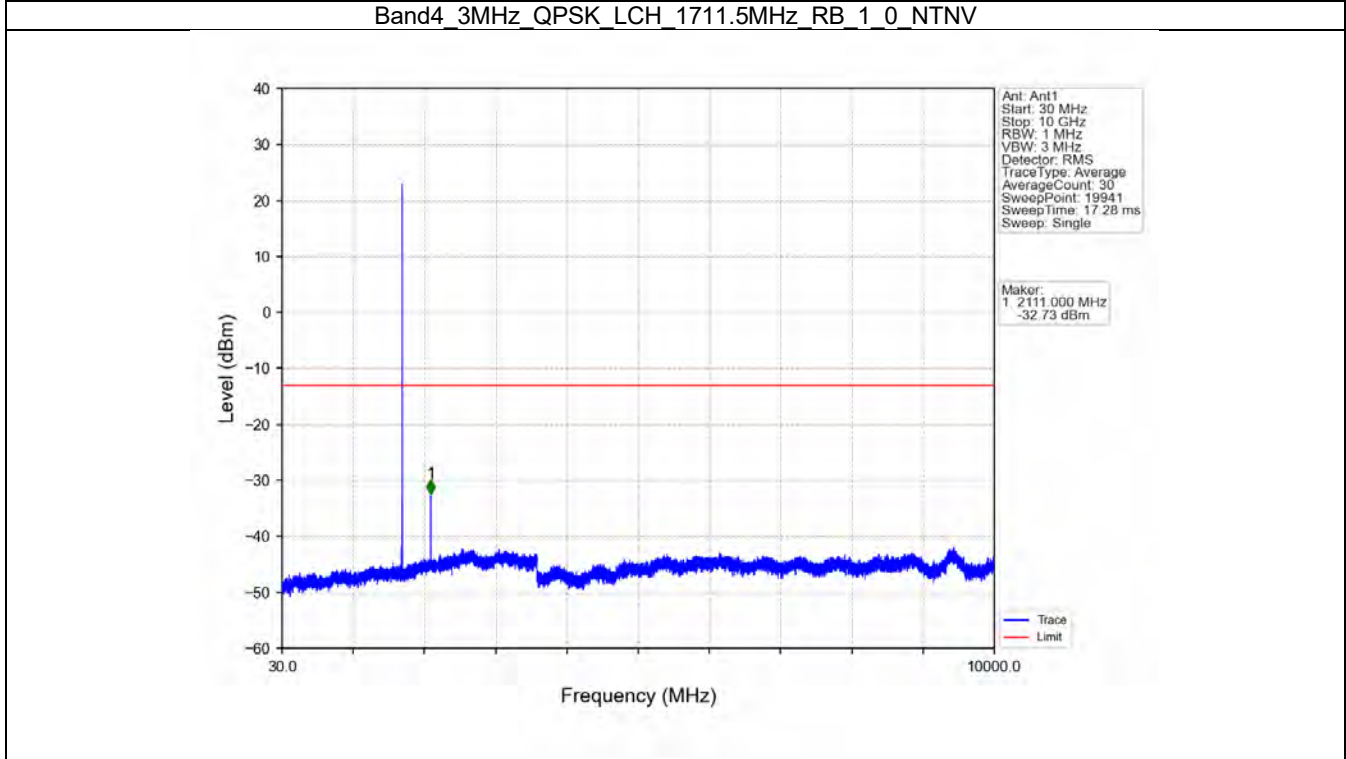
5.2.2 Test Graph



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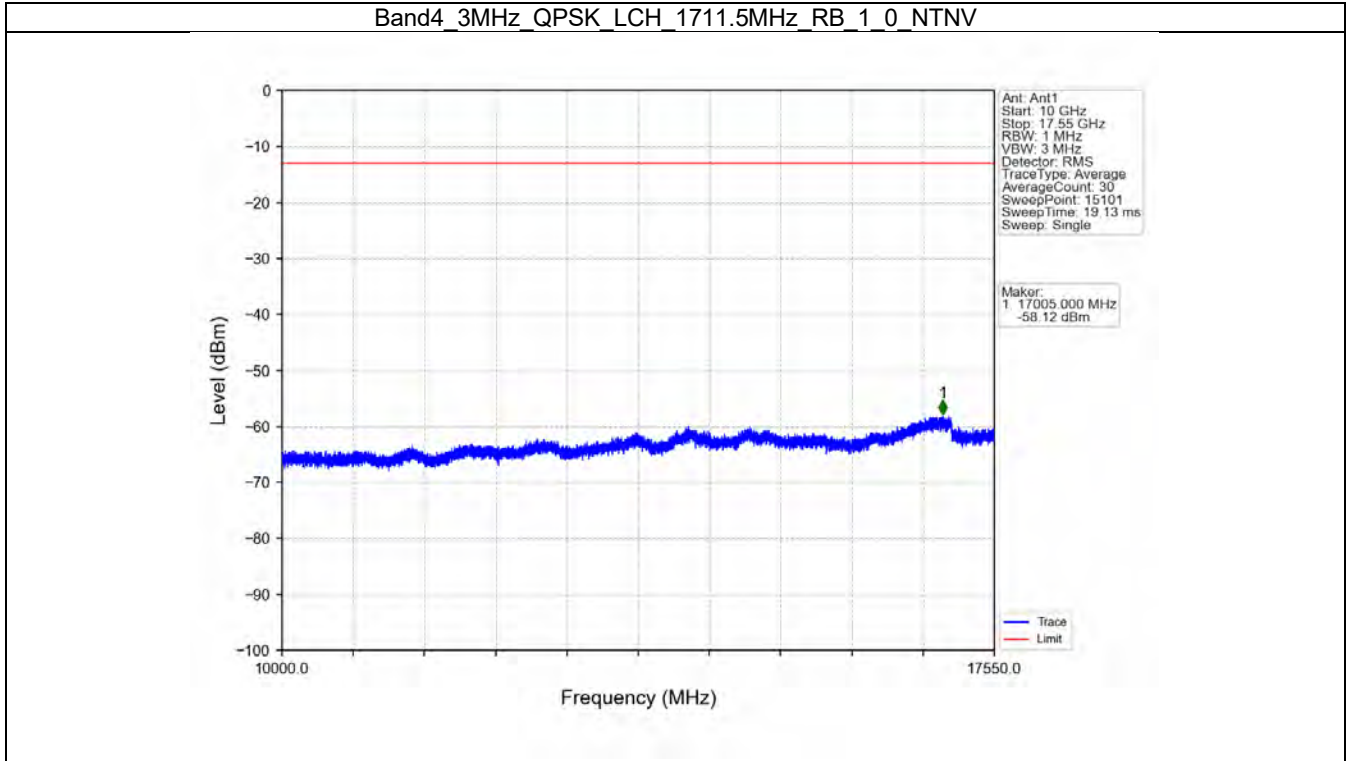
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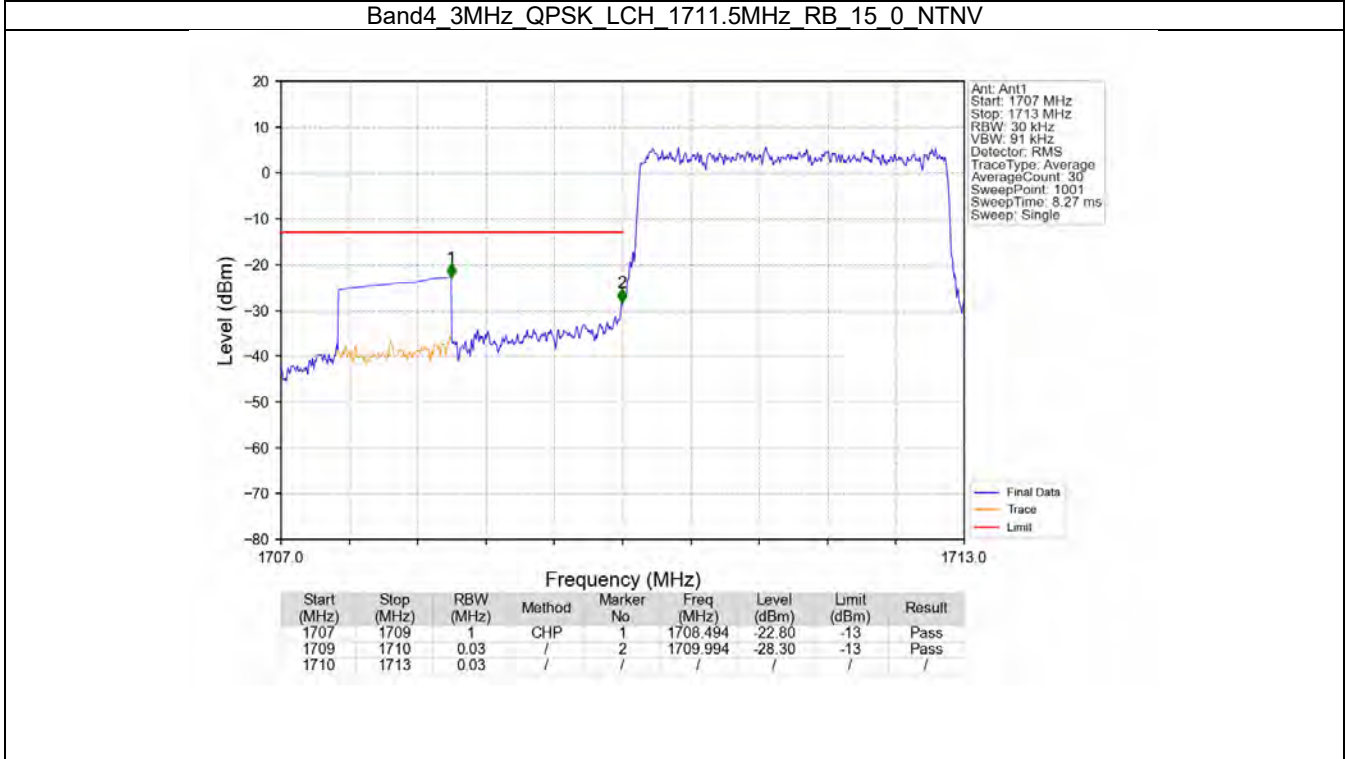
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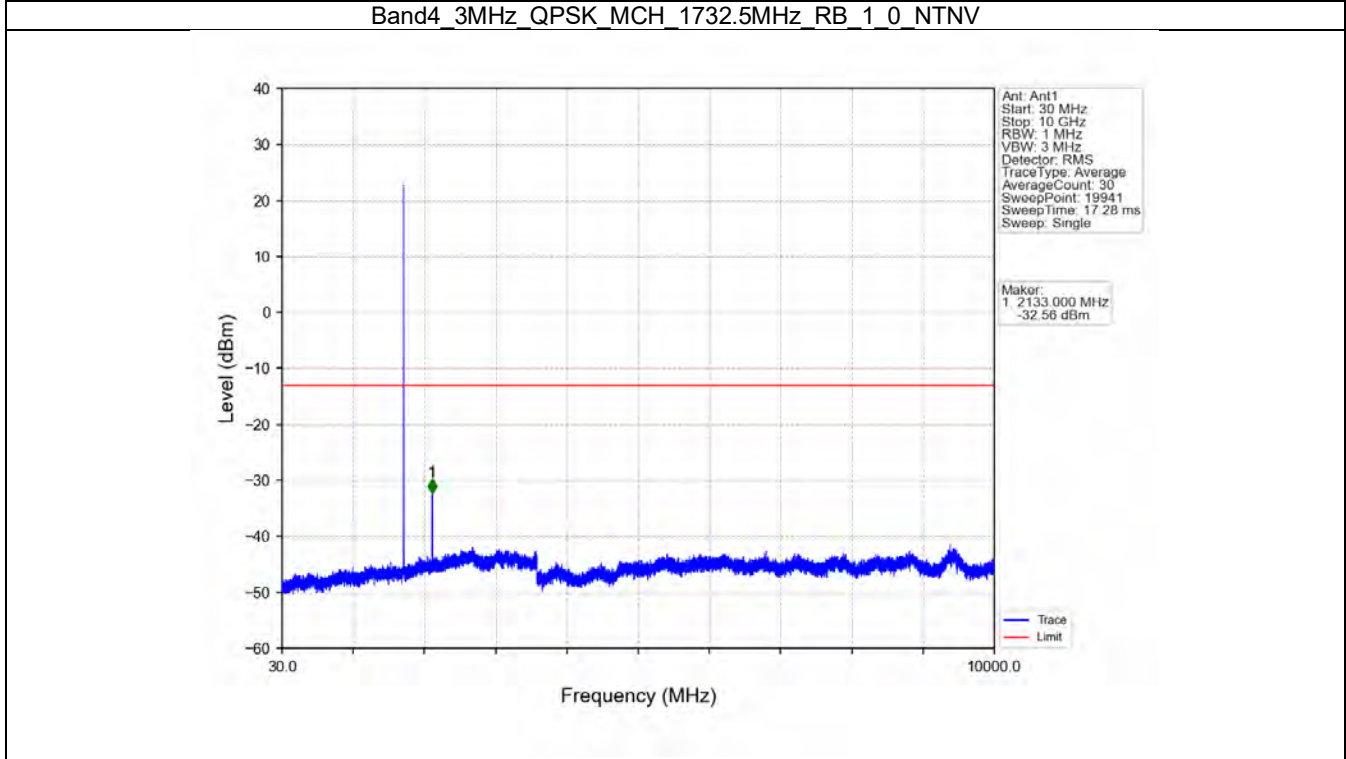
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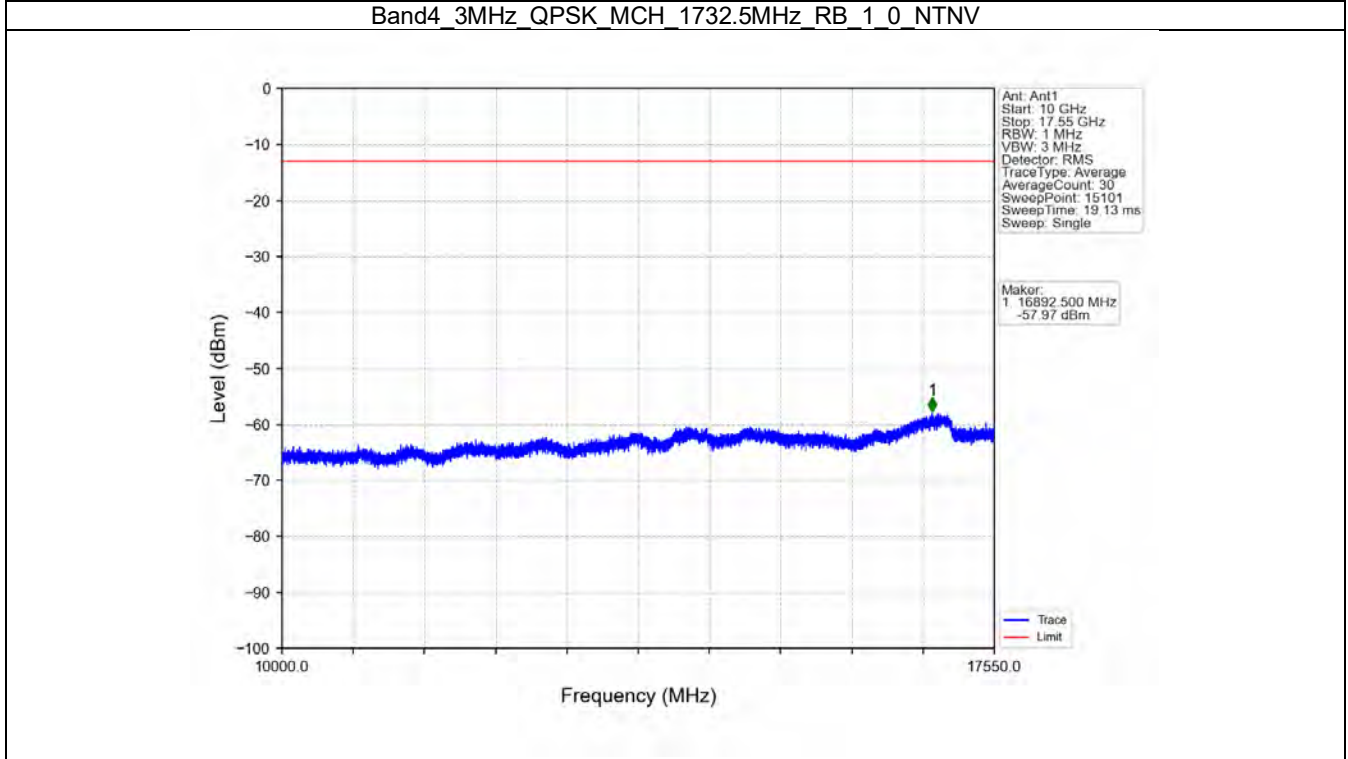
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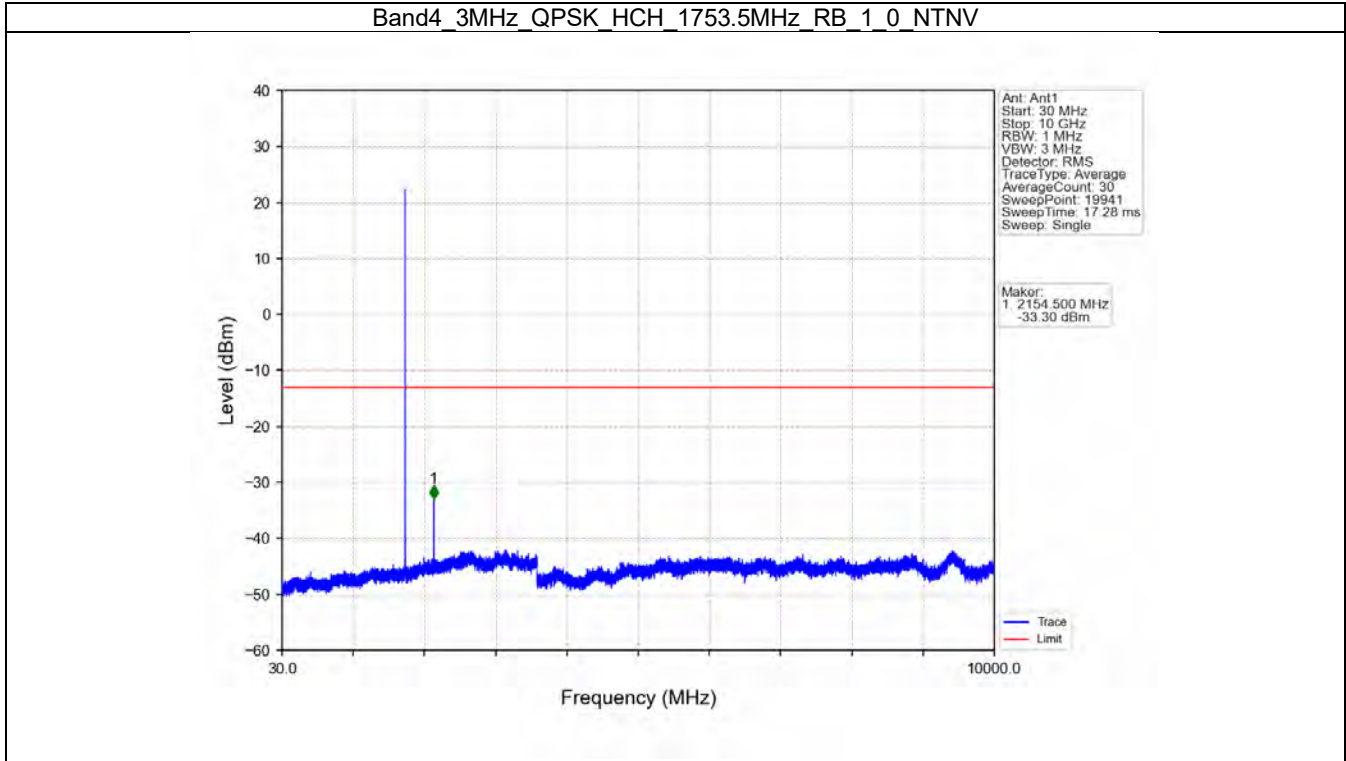


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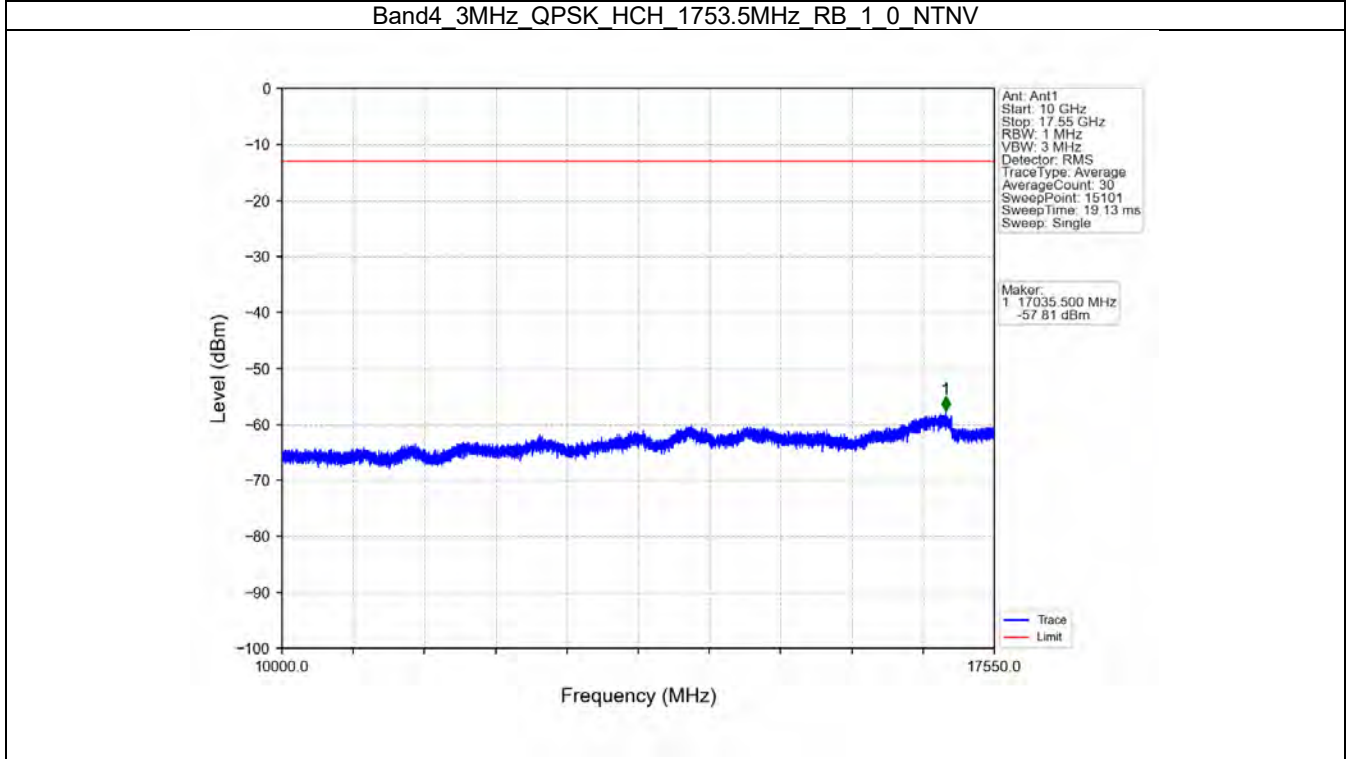
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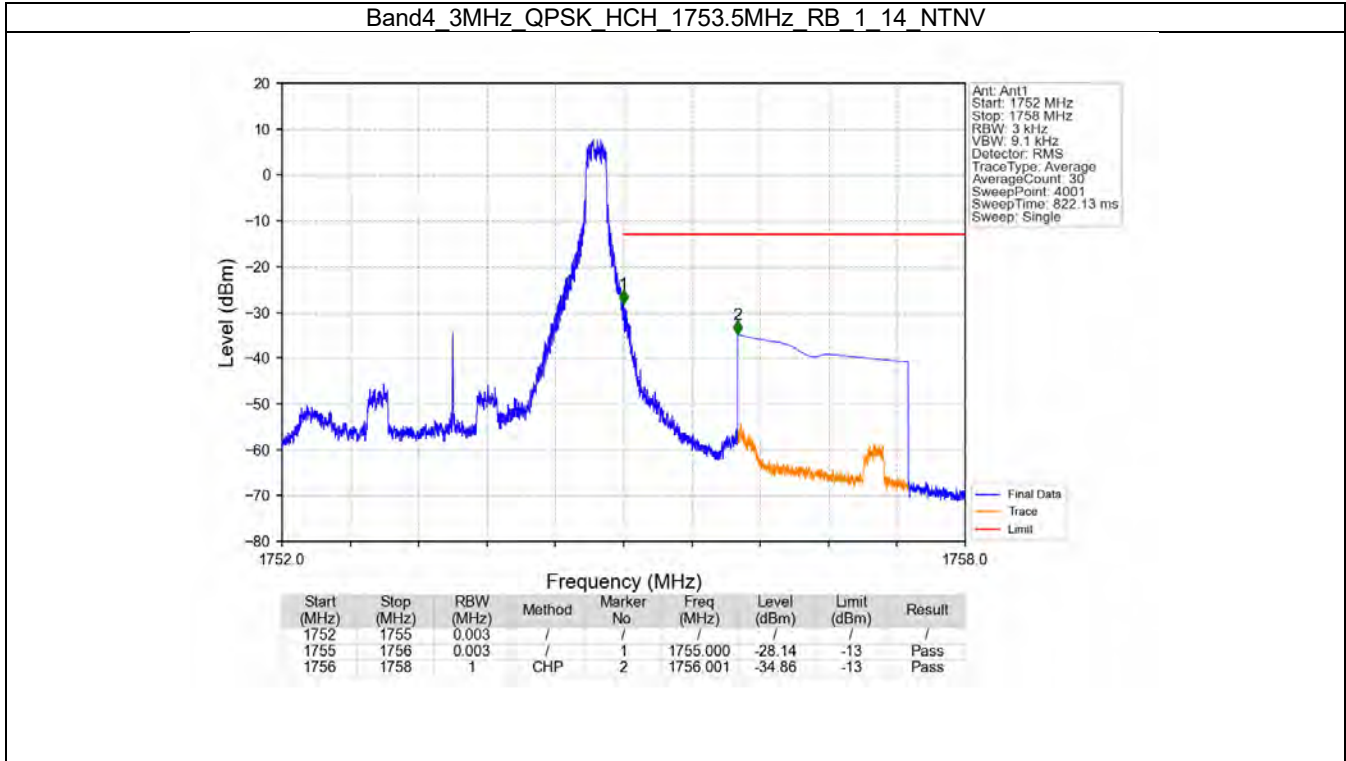


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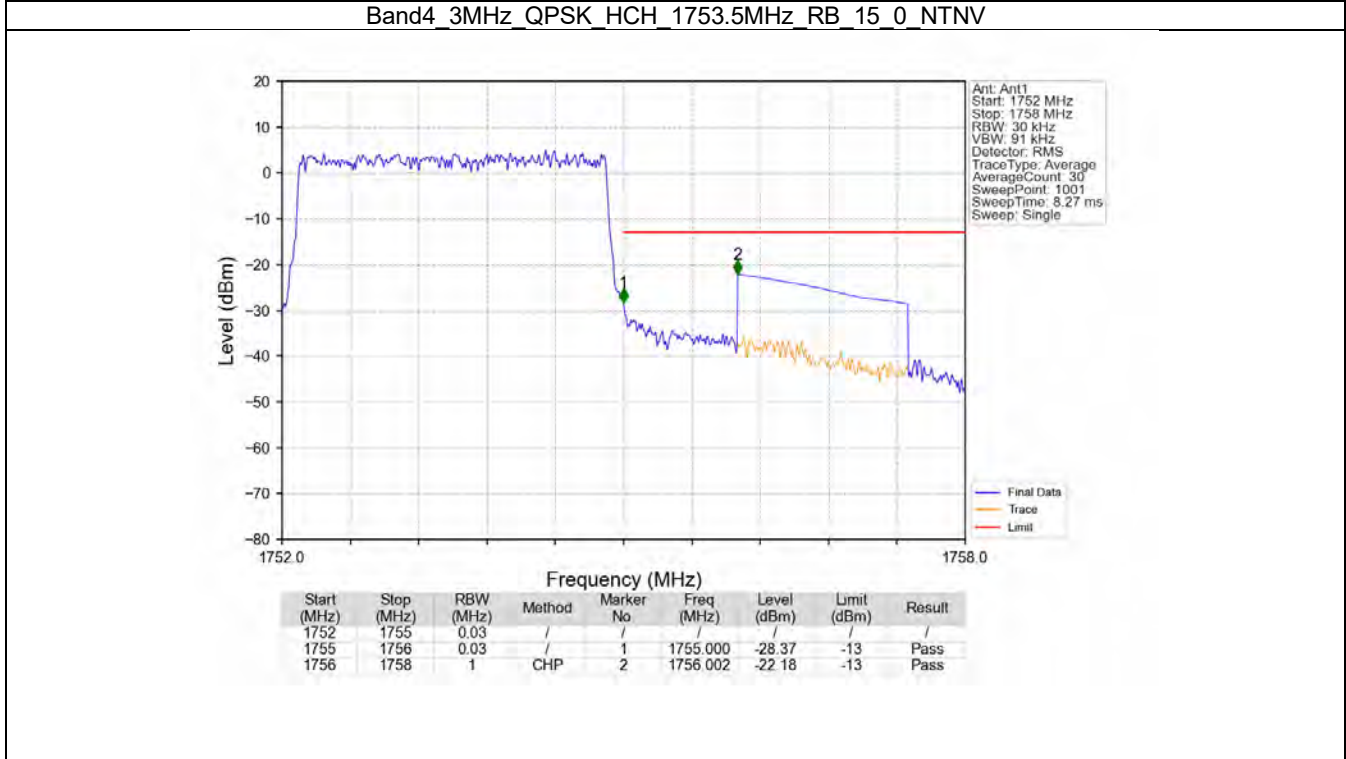
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Rev.: 01

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5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
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
		1	0	Refer To Test Graph		Pass
	1752.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

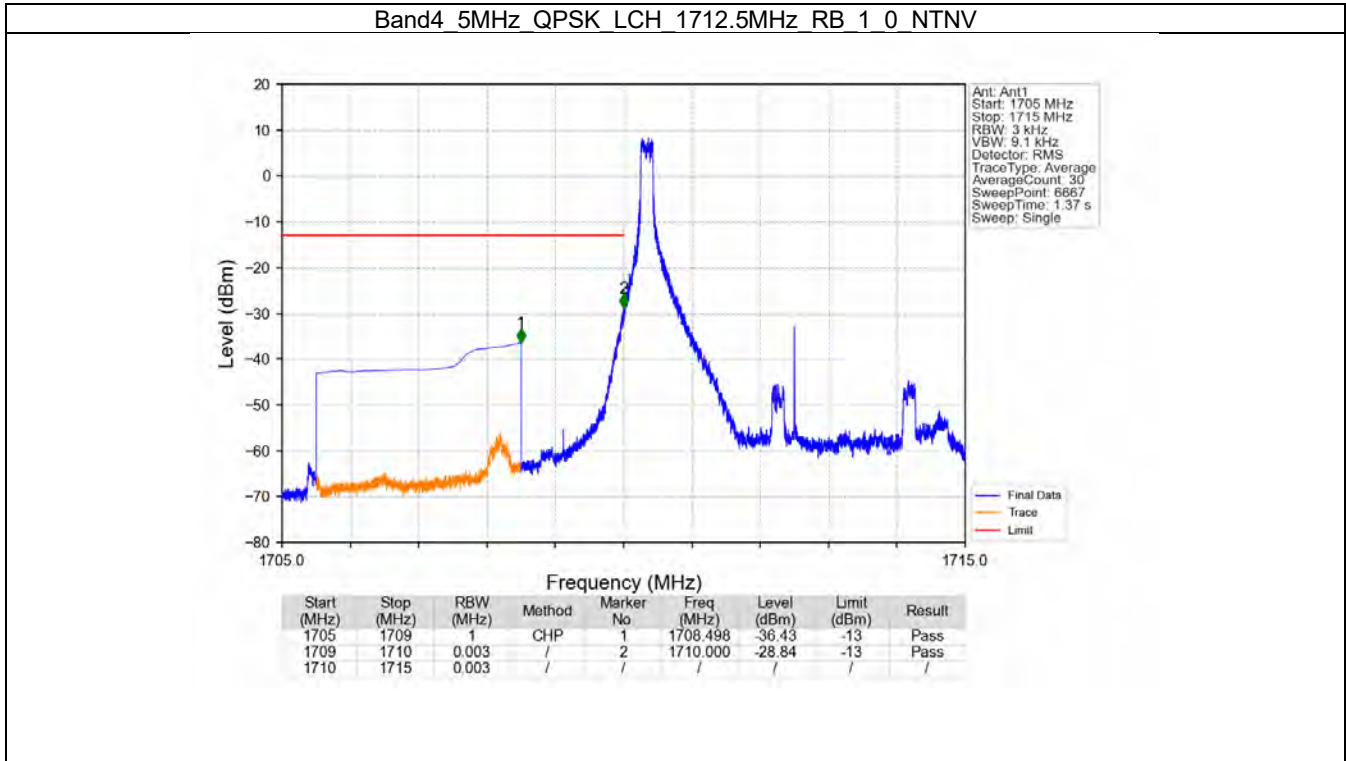


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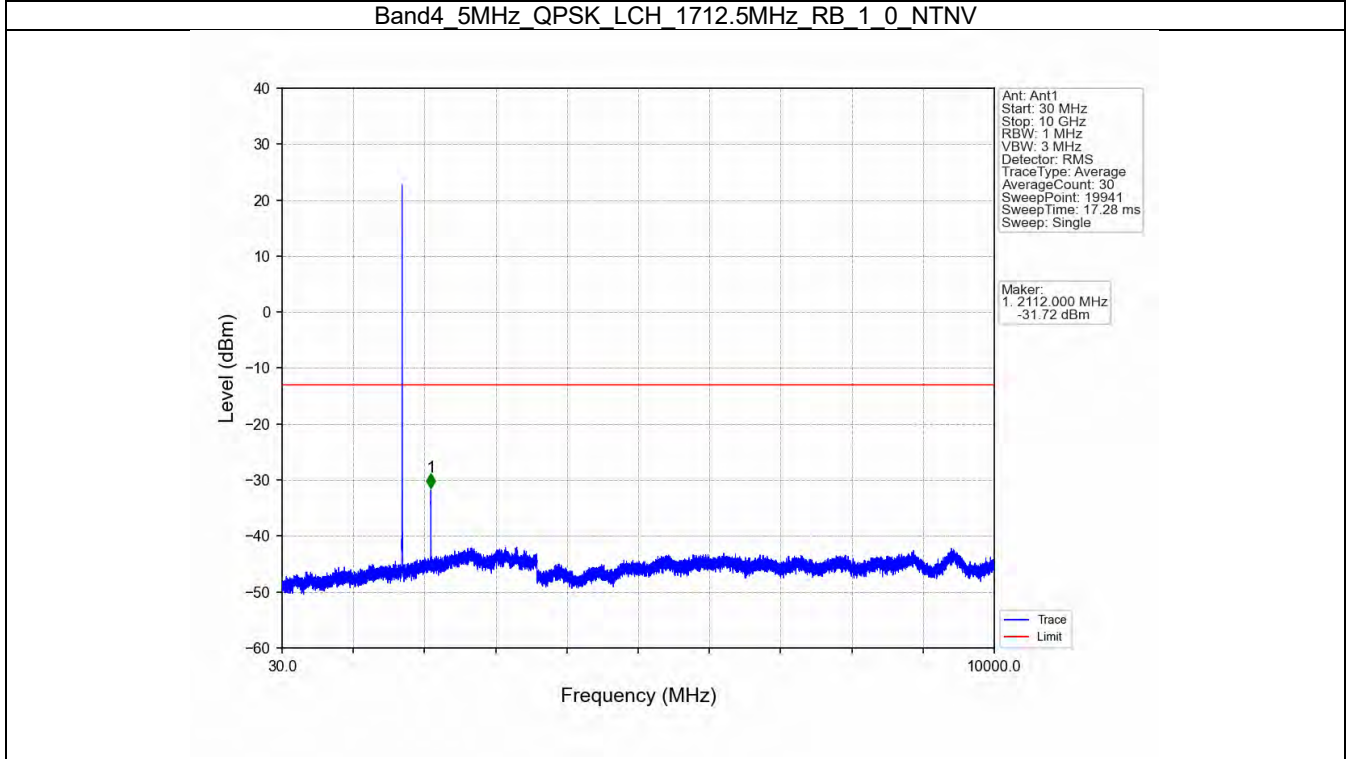
5.3.2 Test Graph



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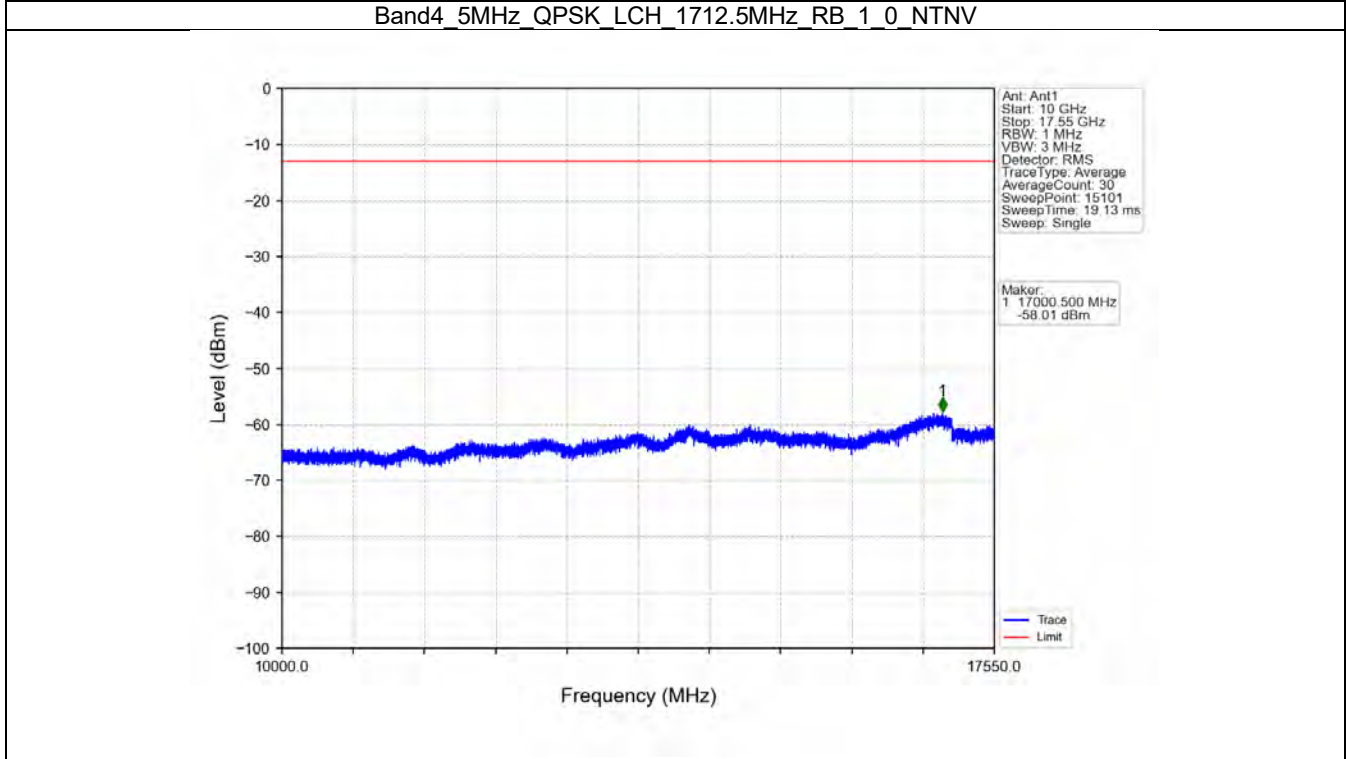


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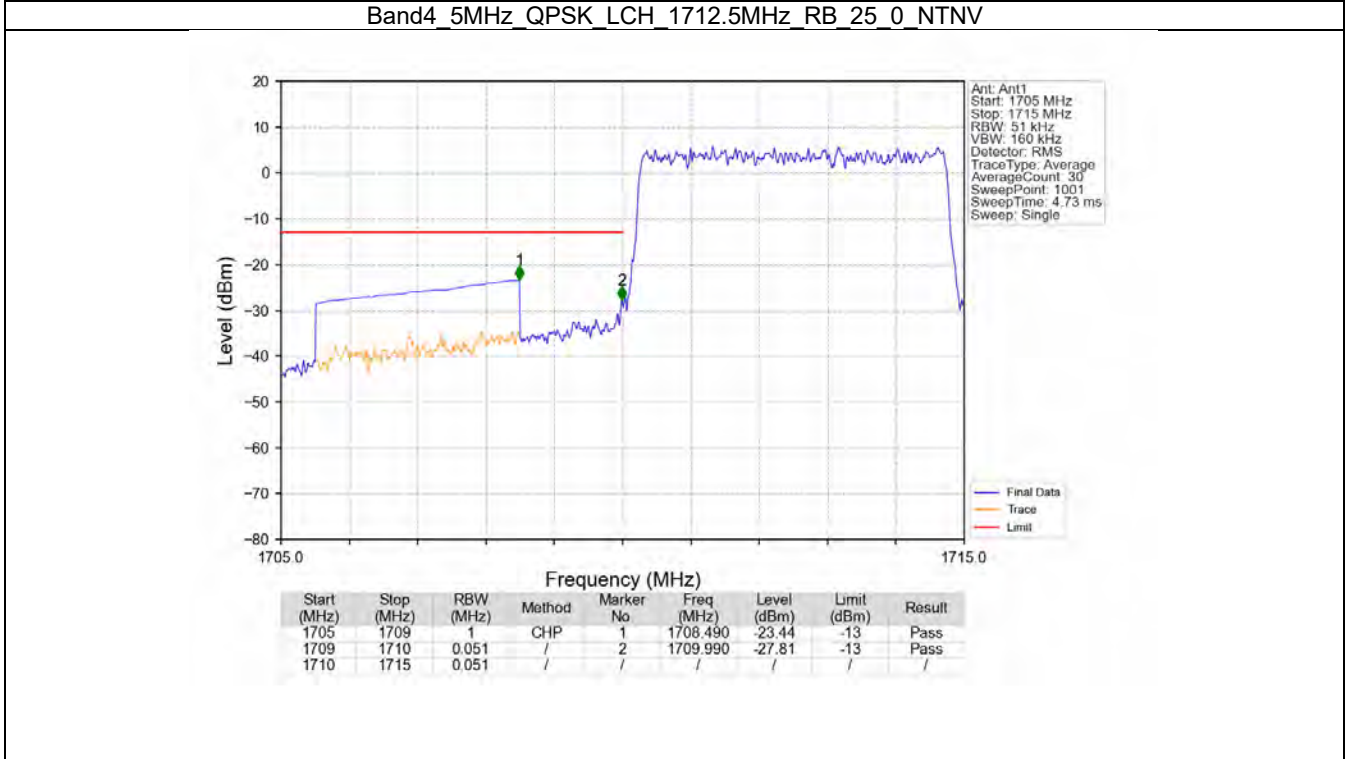
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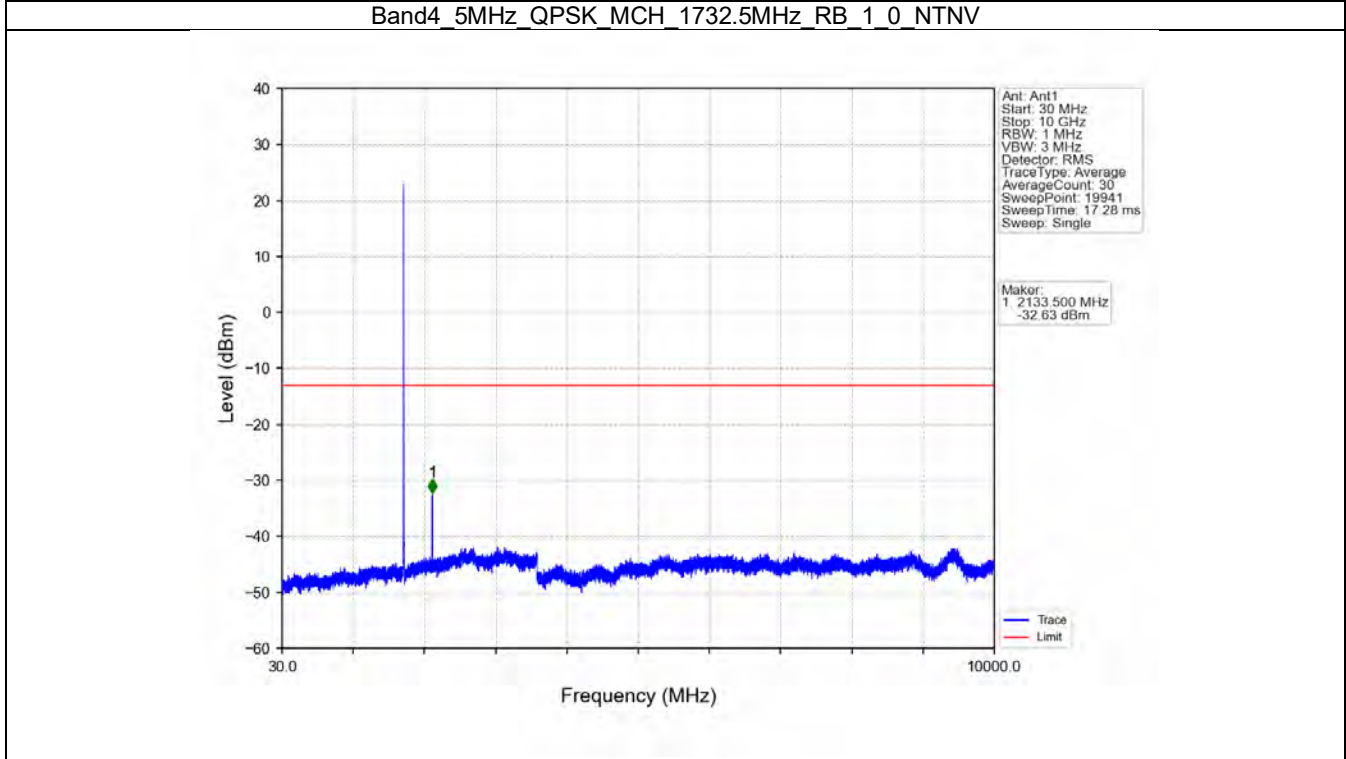
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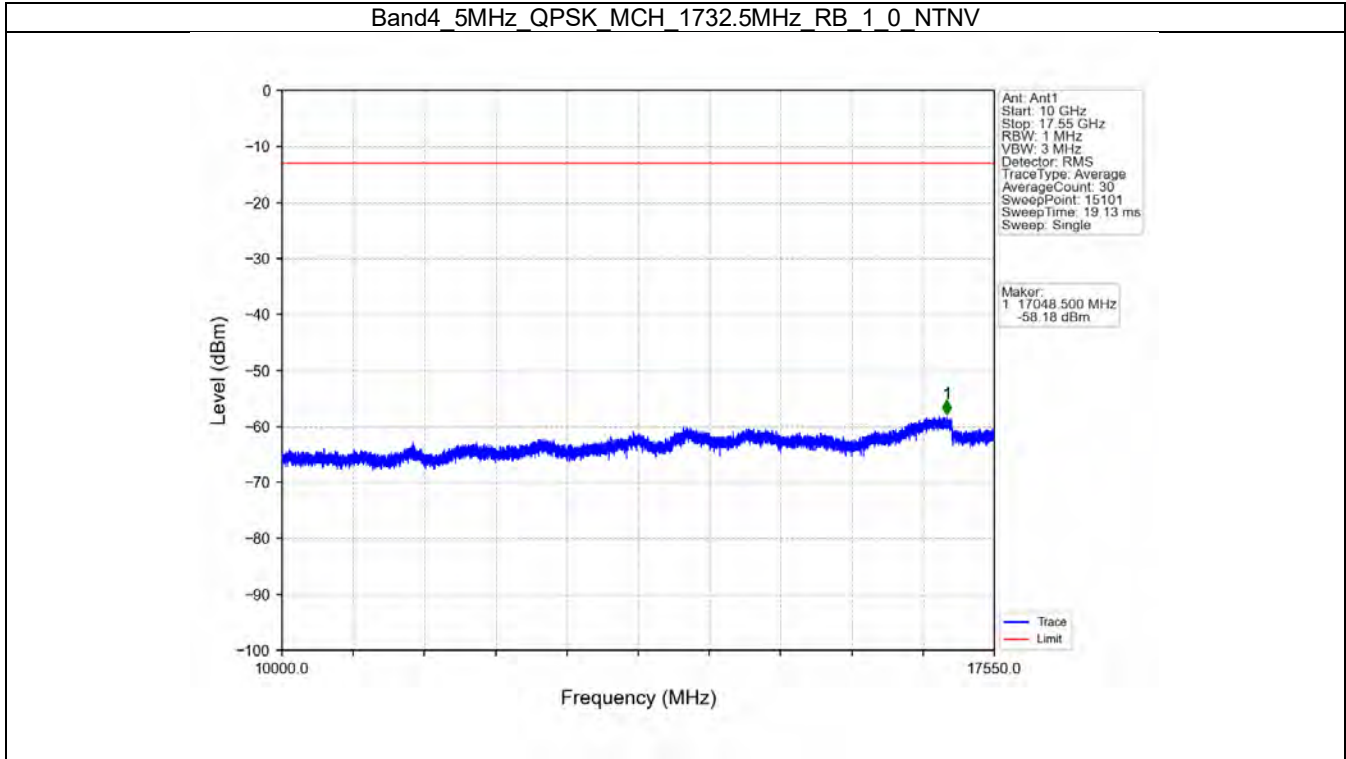


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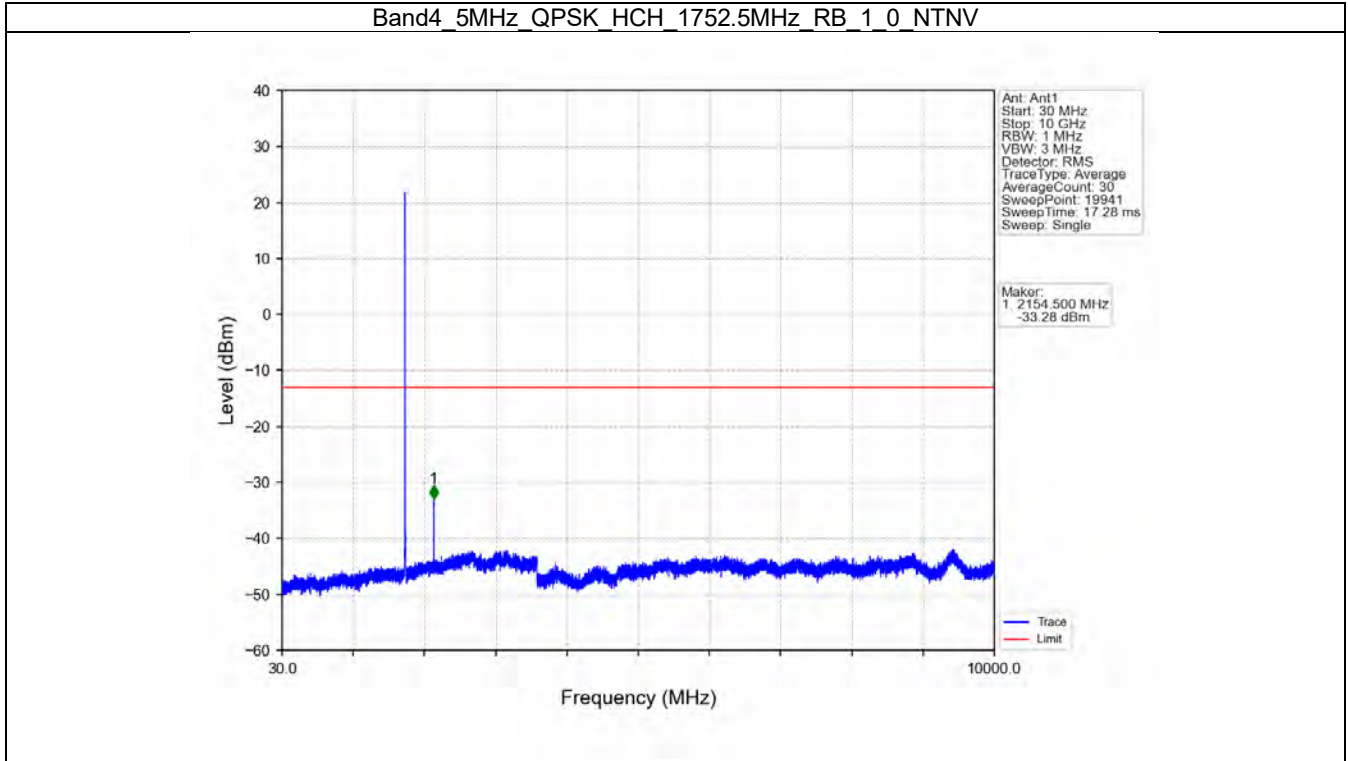


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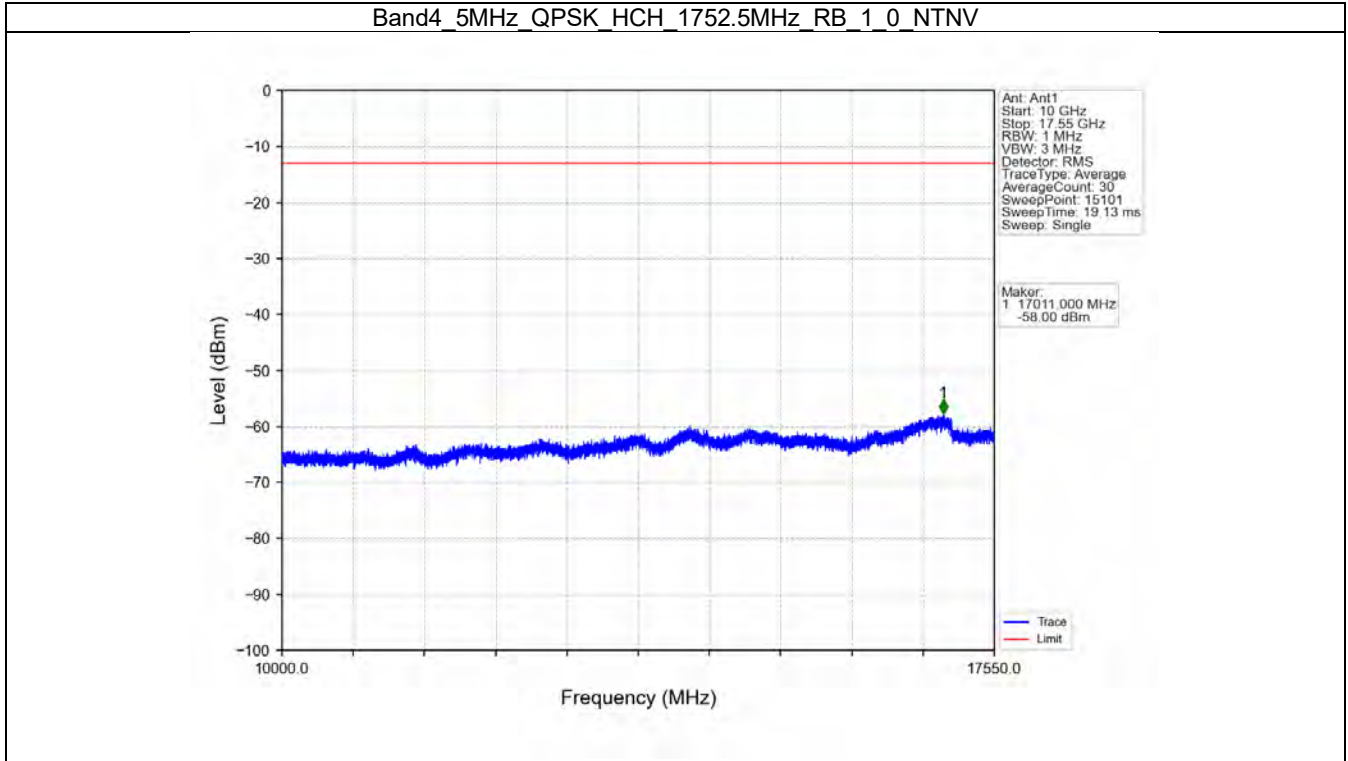
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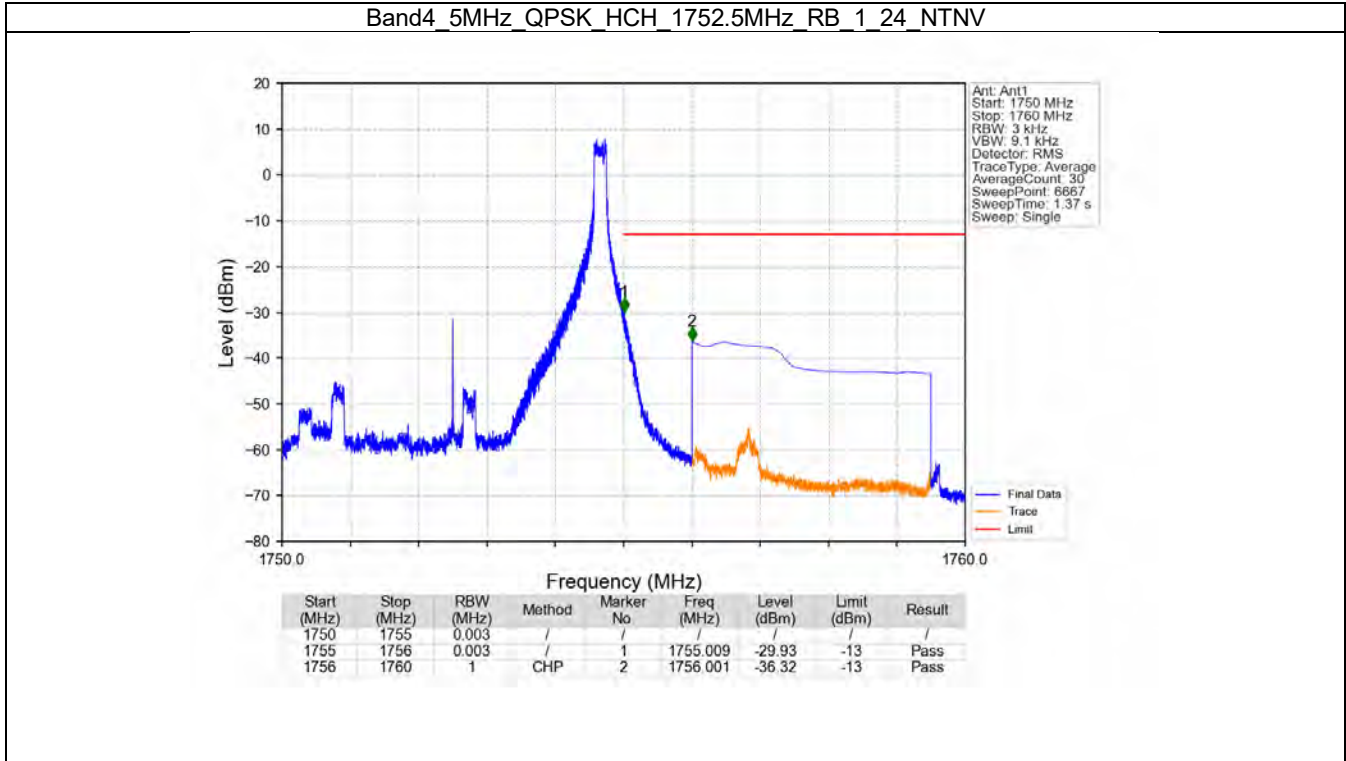
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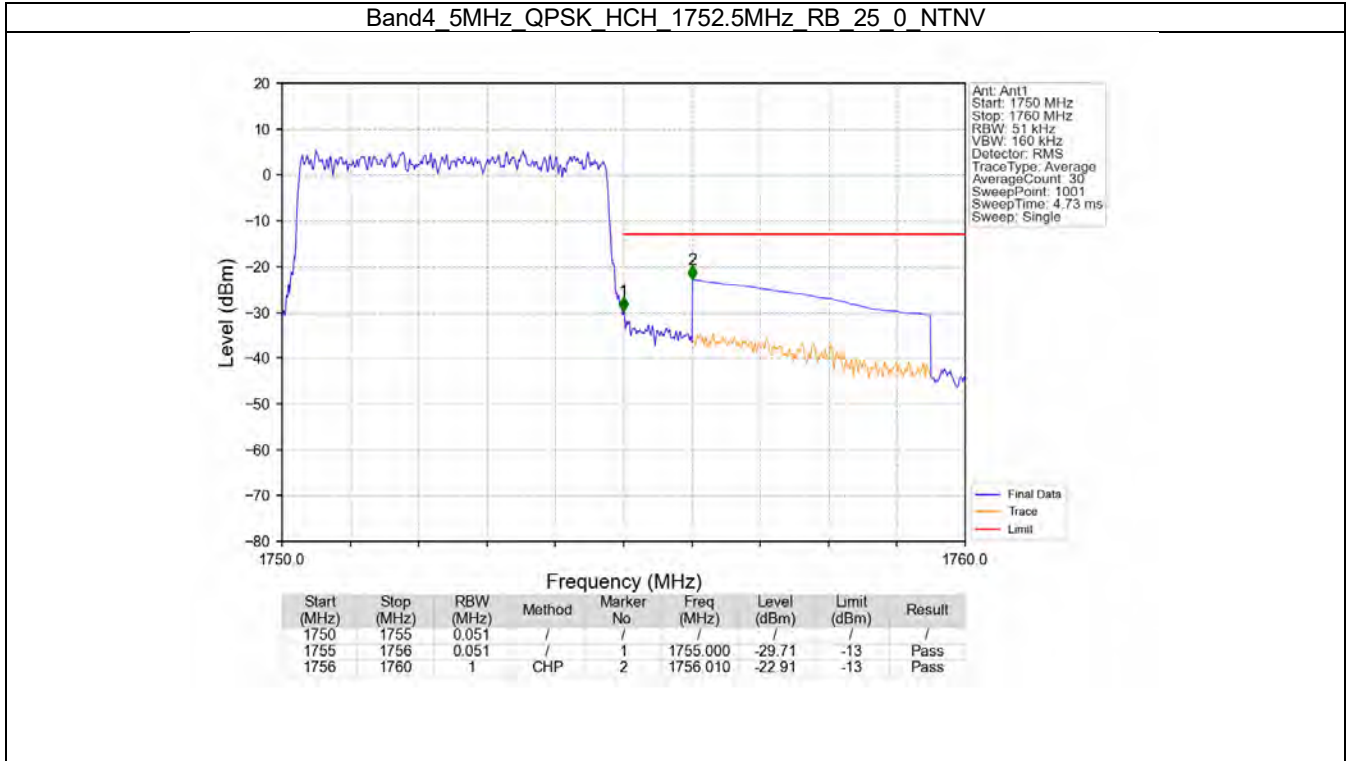
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Report No.: SEWM2311000466RG01

Rev.: 01

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5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNv						
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
		1	0	Refer To Test Graph		Pass
	1750		49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

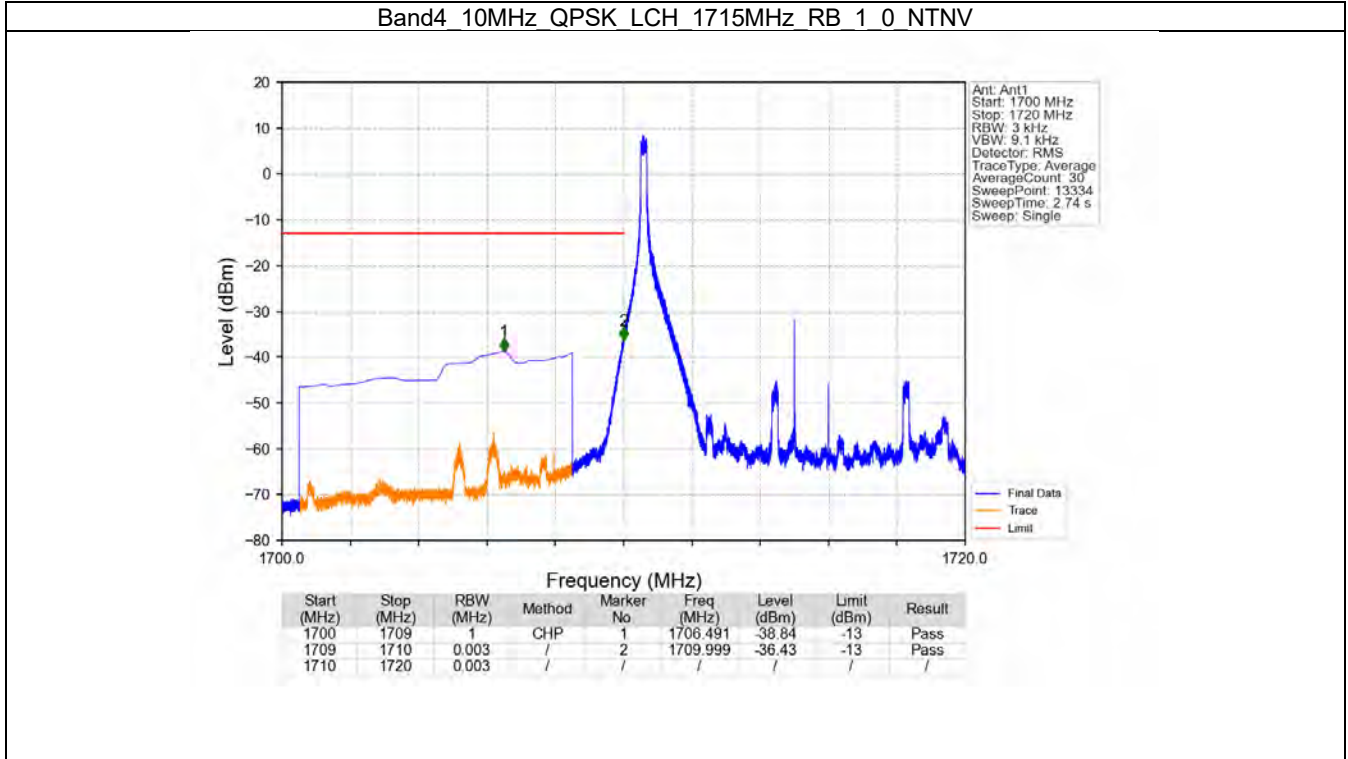


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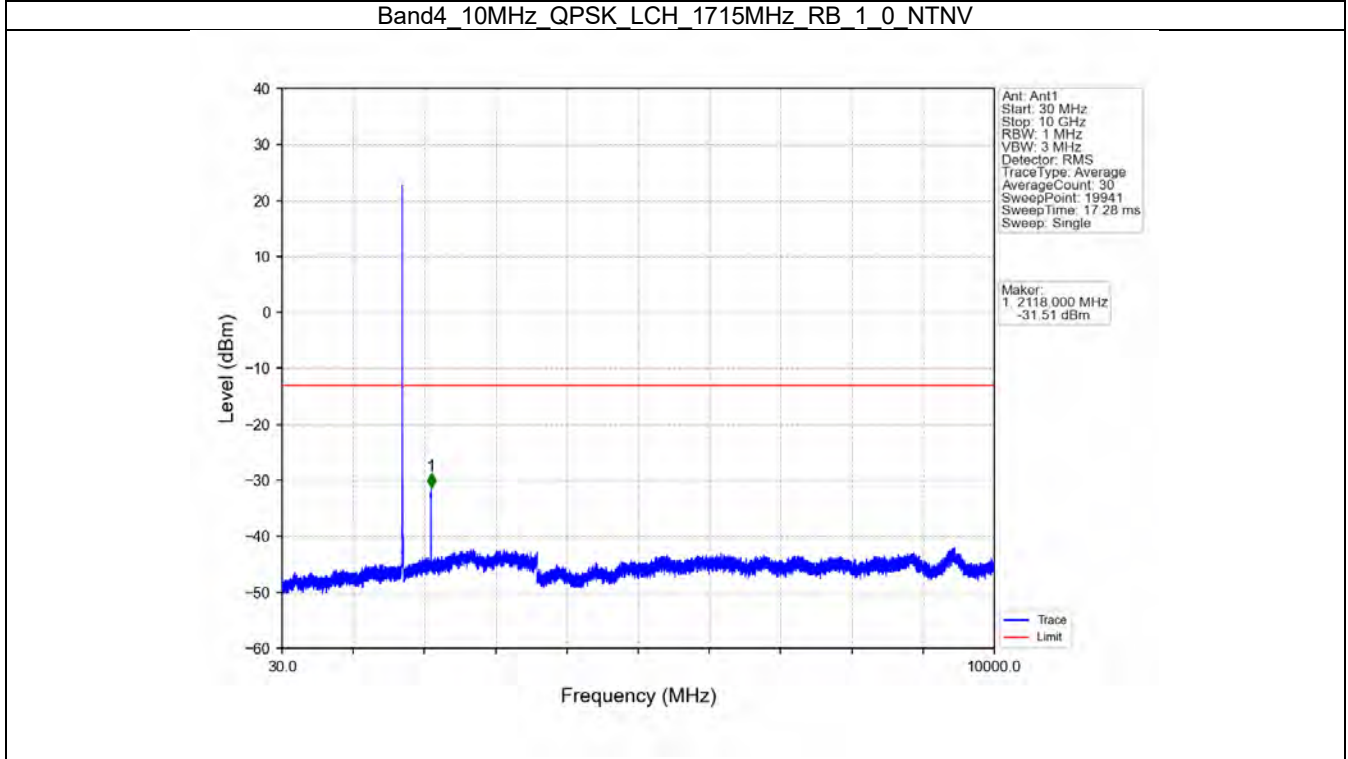
5.4.2 Test Graph



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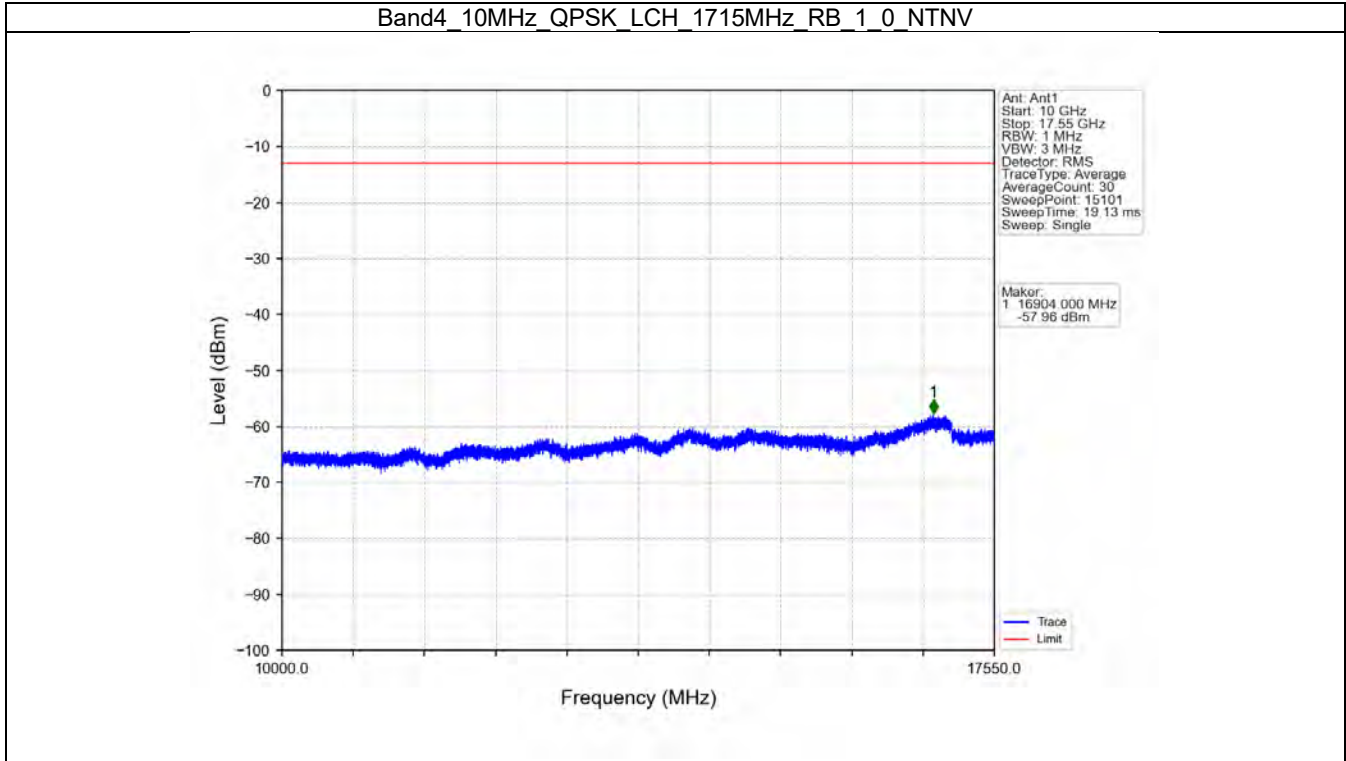
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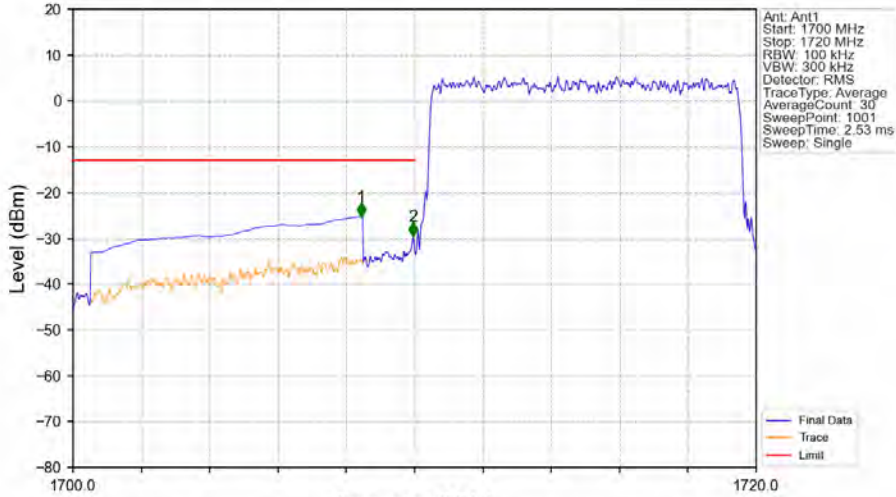
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Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



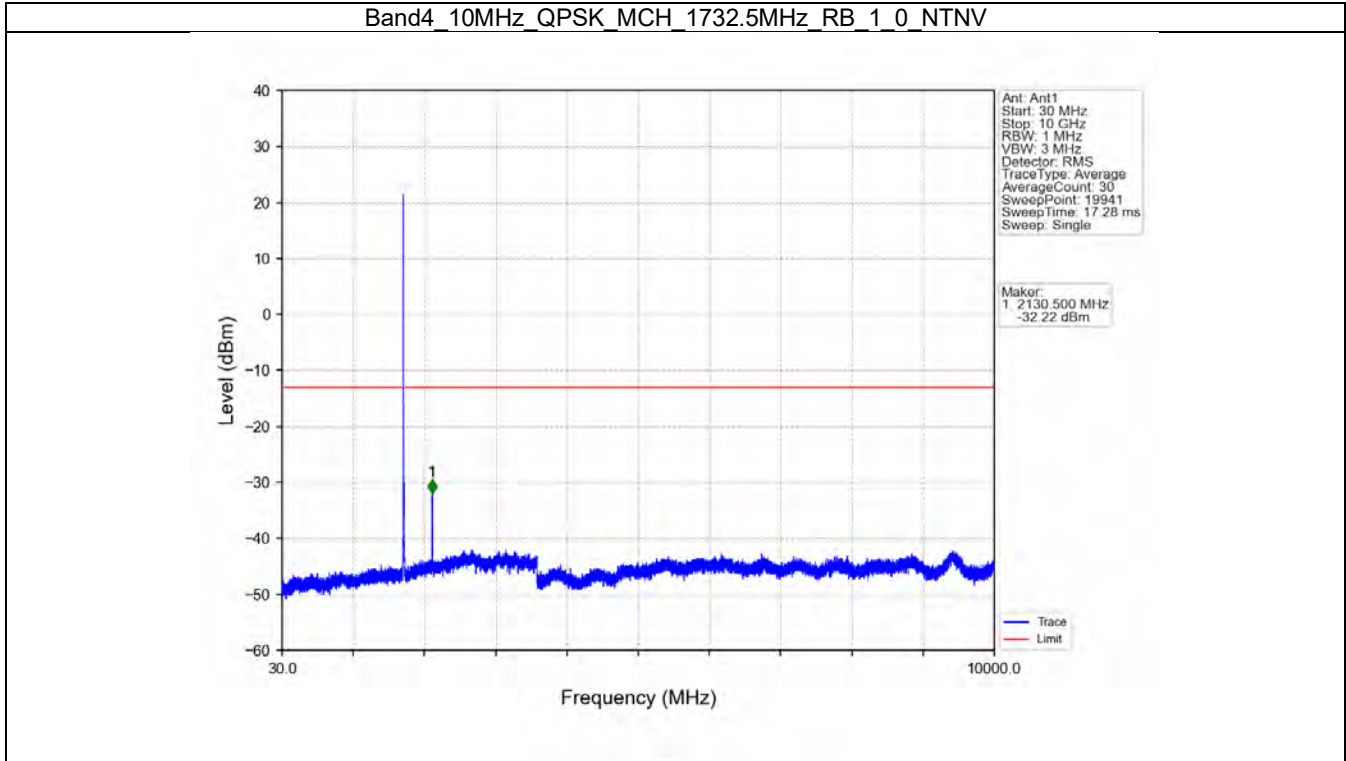
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.440	-25.27	-13	Pass
1709	1710	0.1	/	2	1709.960	-29.62	-13	Pass
1710	1720	0.1	/	/	/	/	/	/



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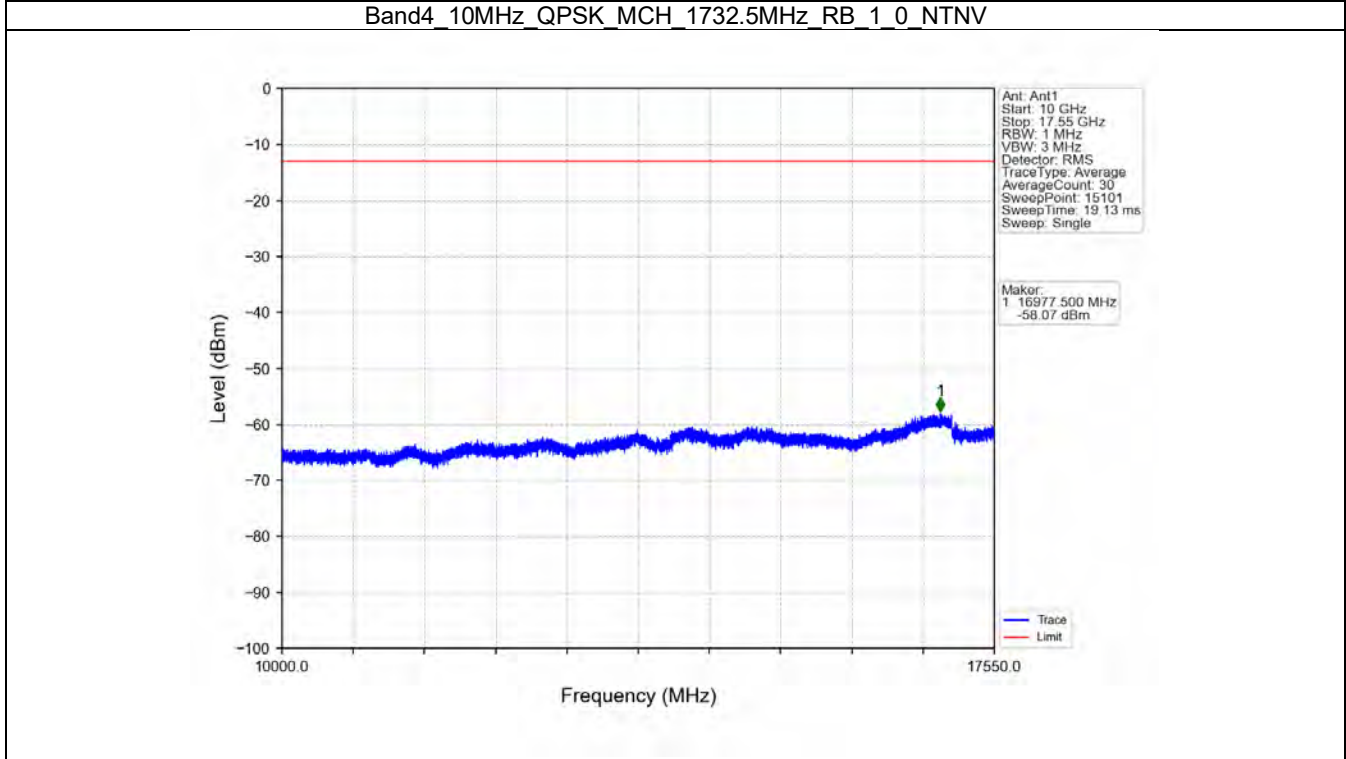
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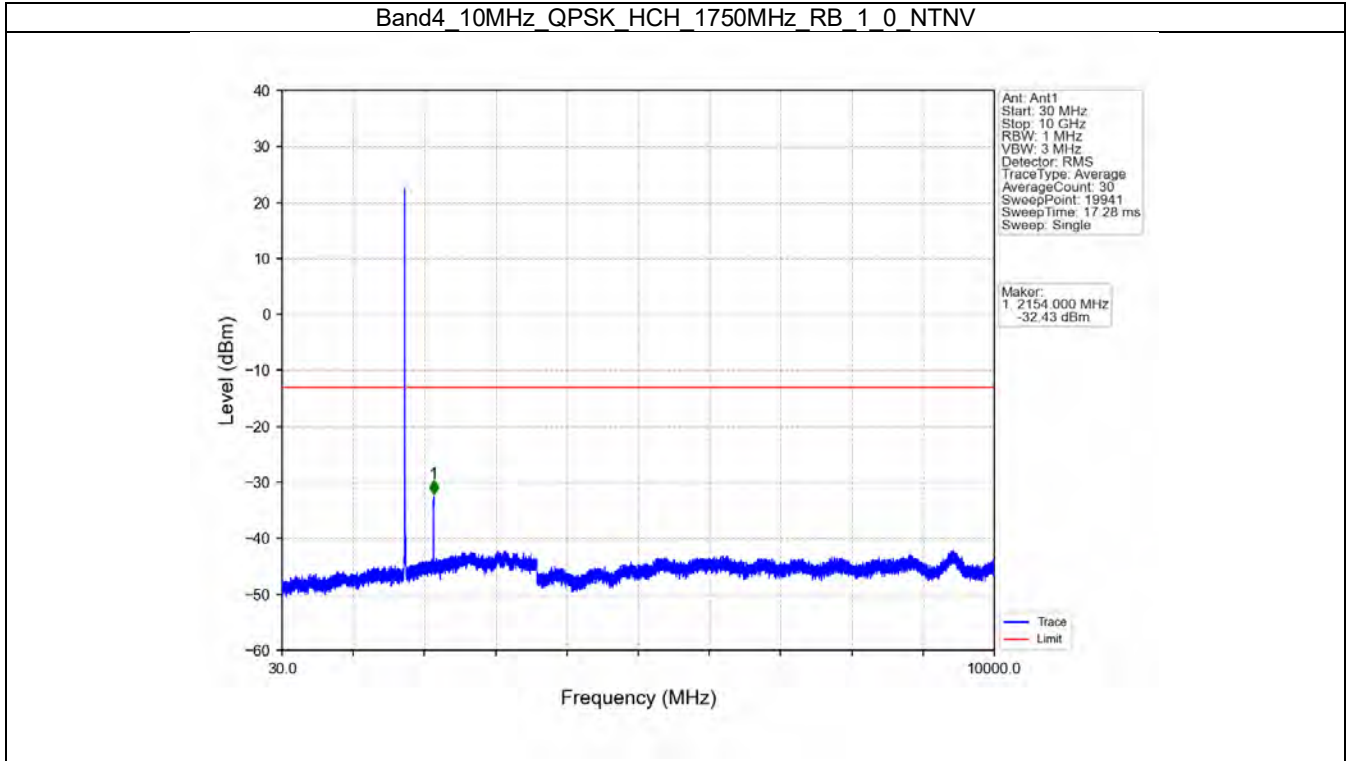
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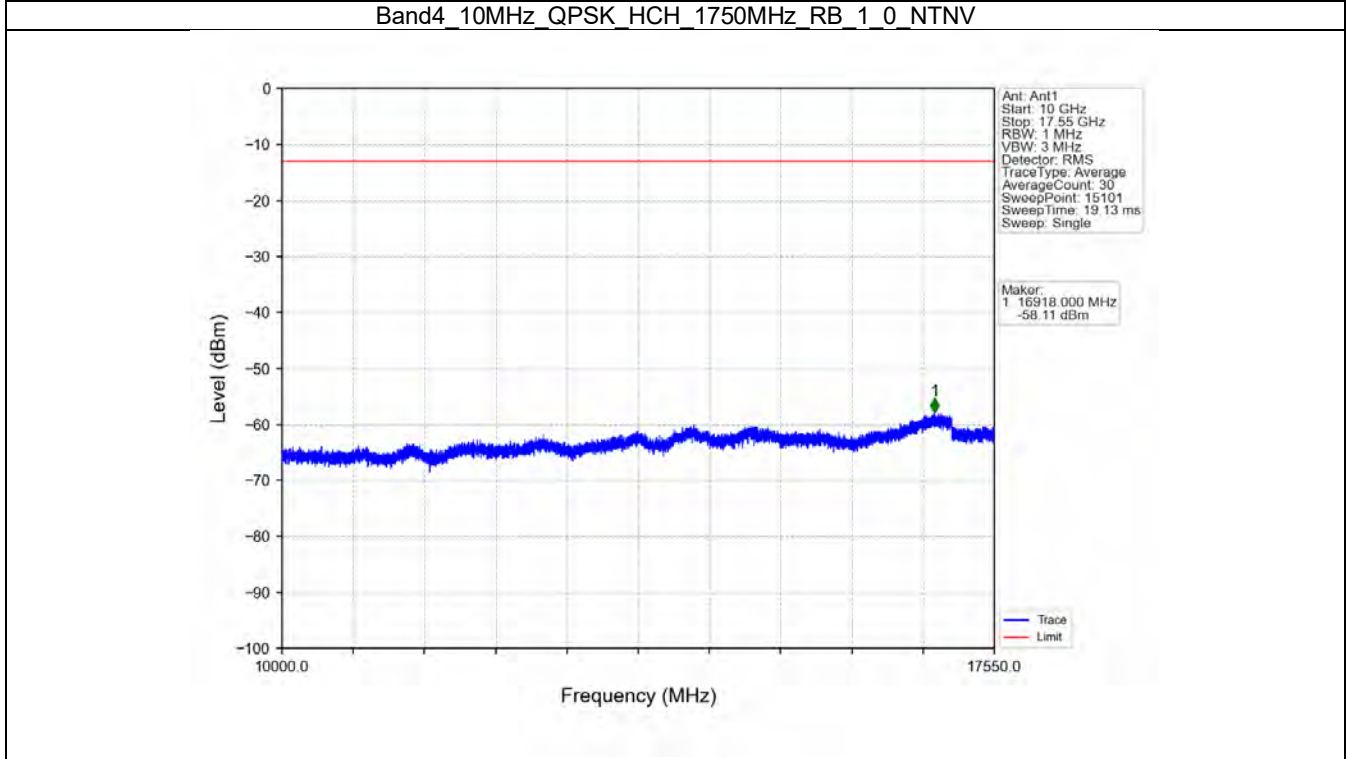
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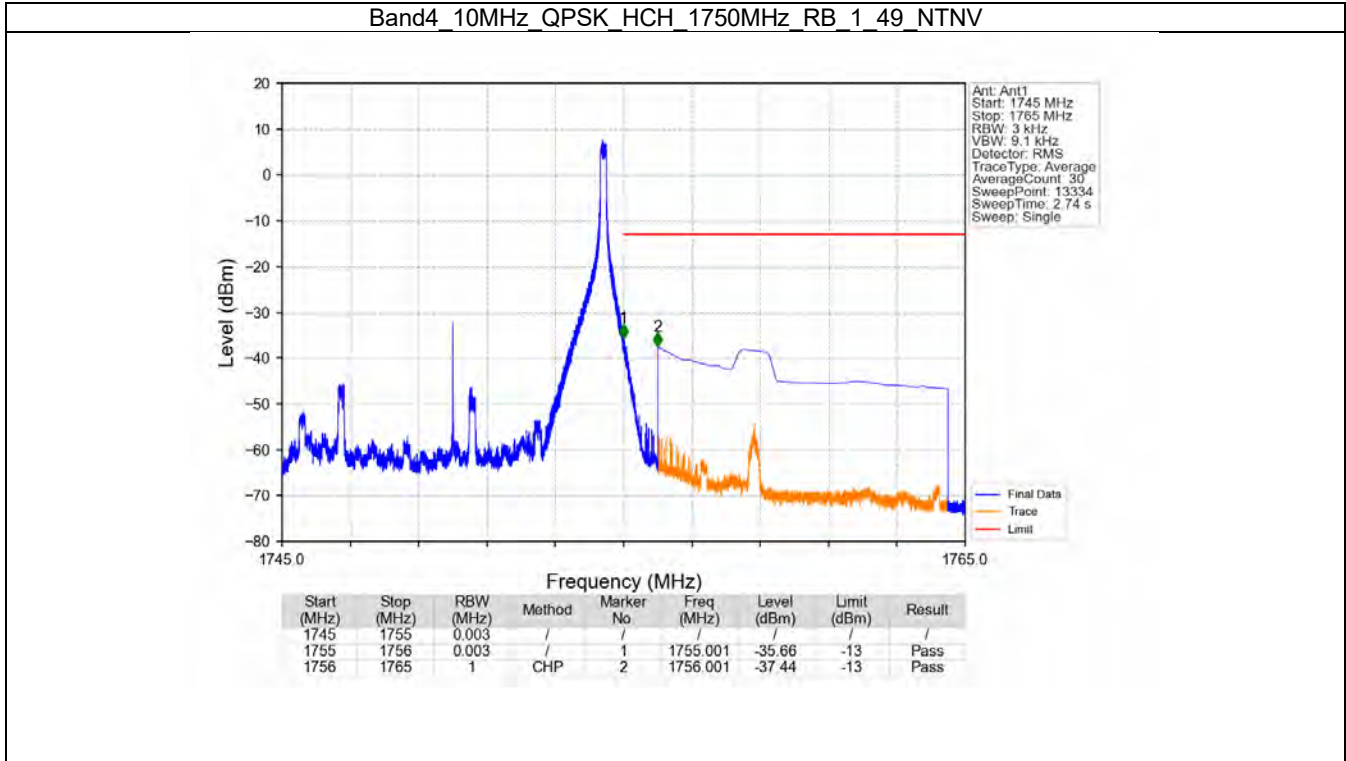


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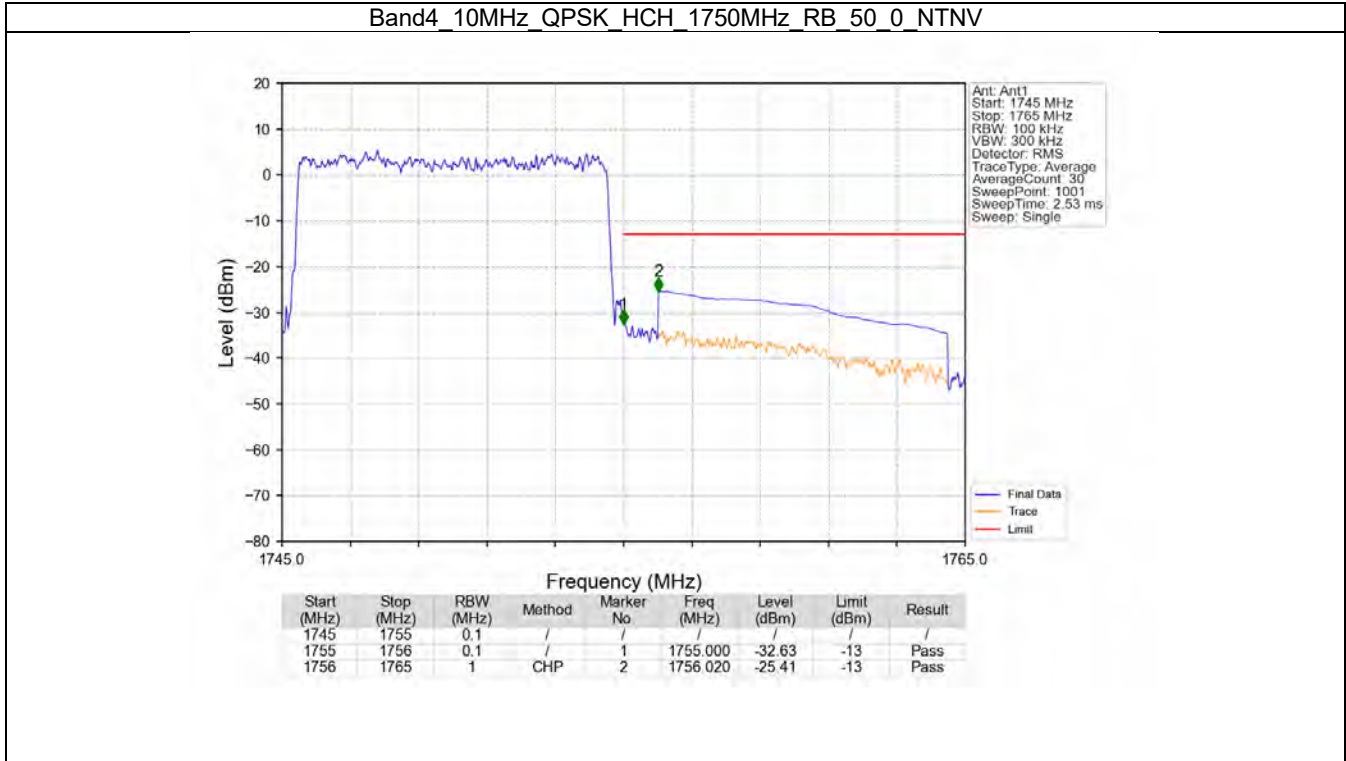
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Report No.: SEWM2311000466RG01

Rev.: 01

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5.5 B4_15MHz

5.5.1 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
		1	0	Refer To Test Graph		Pass
	1747.5		74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

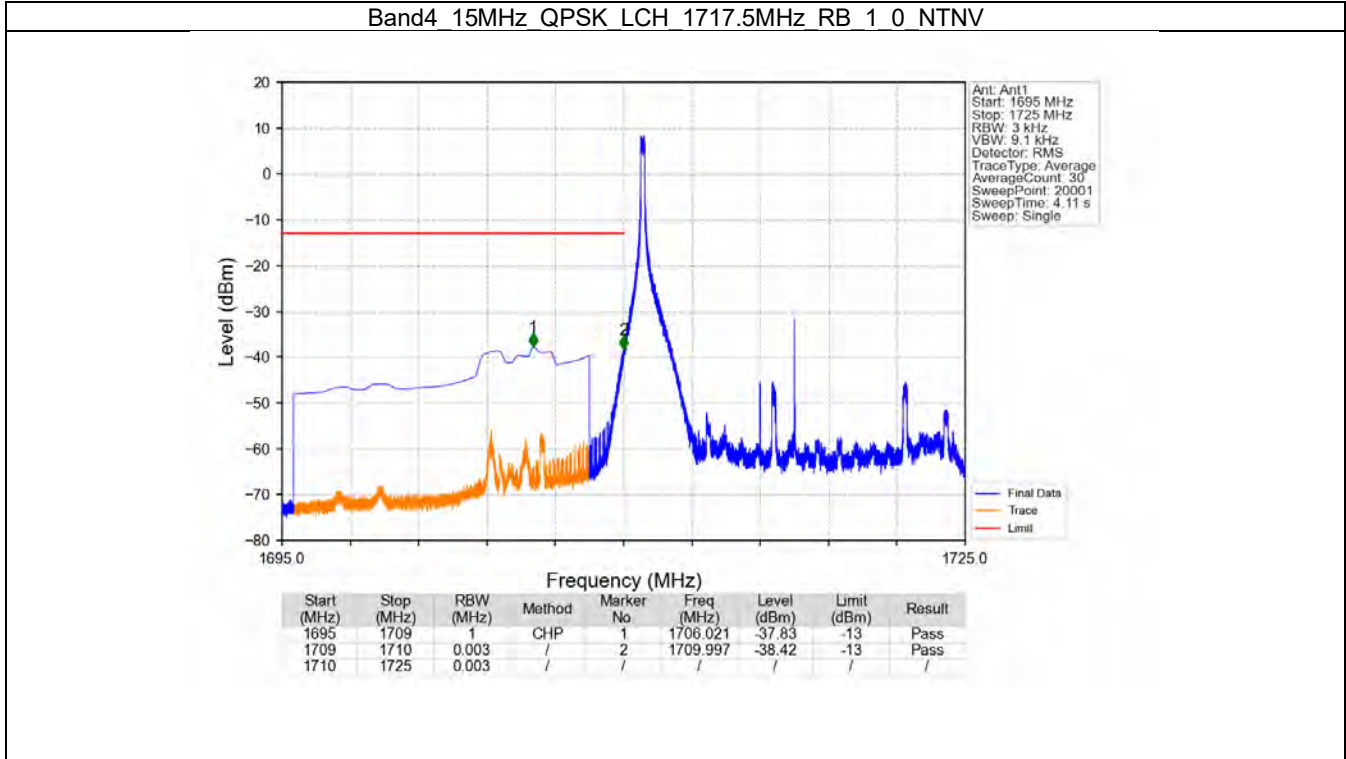


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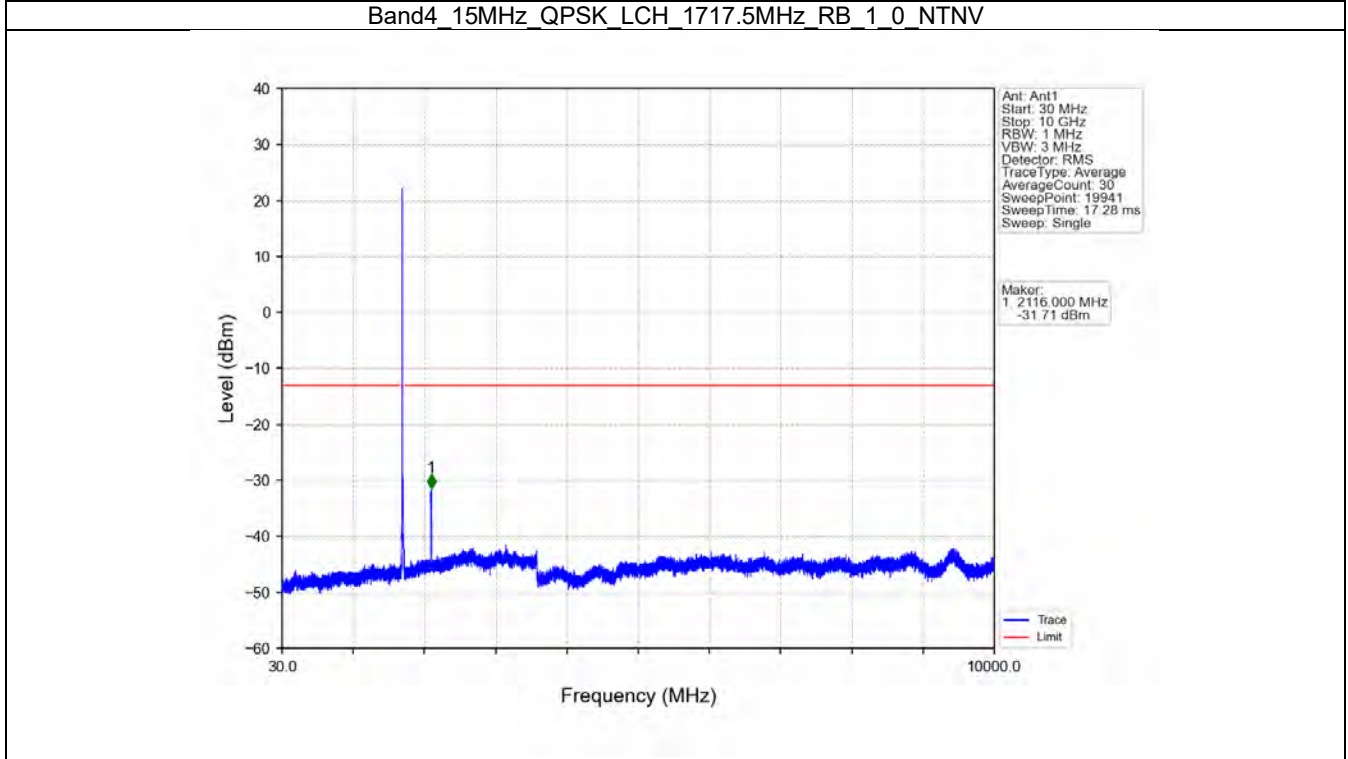
5.5.2 Test Graph



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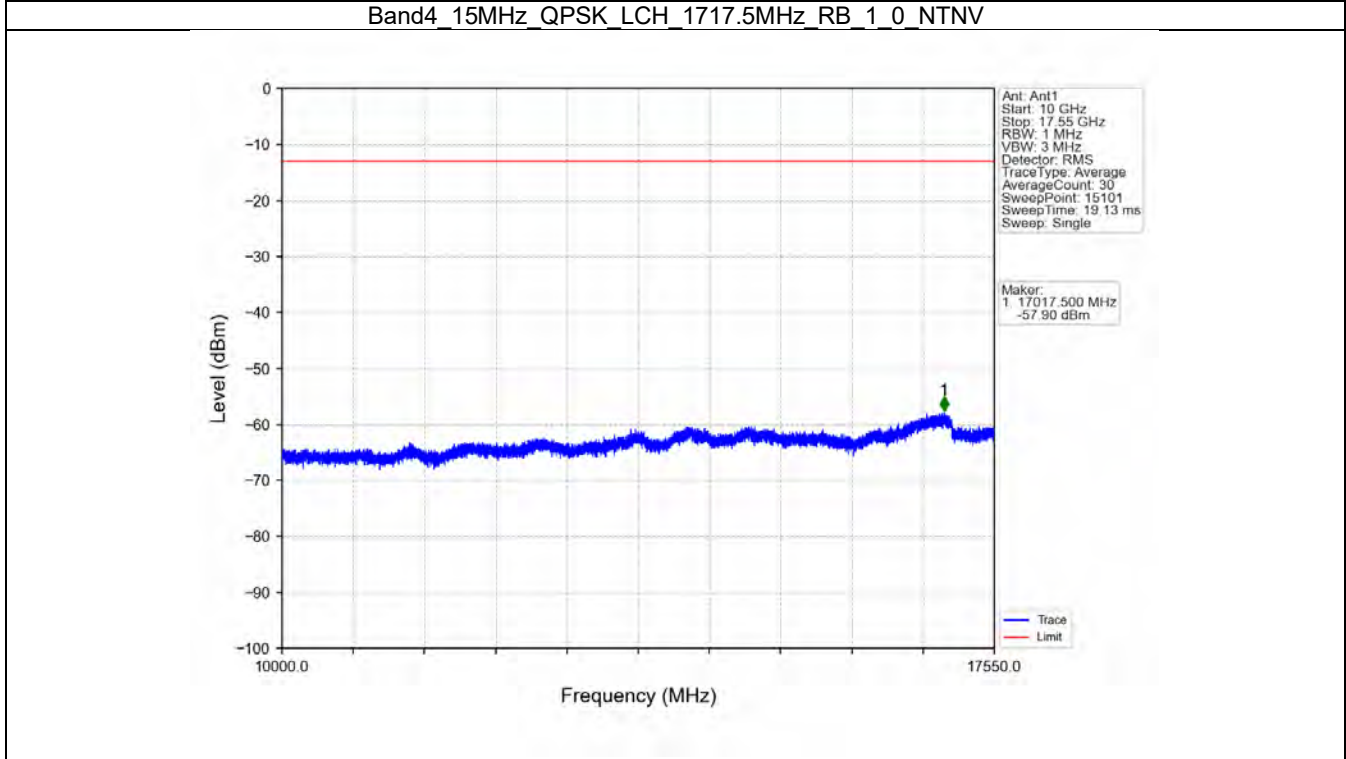
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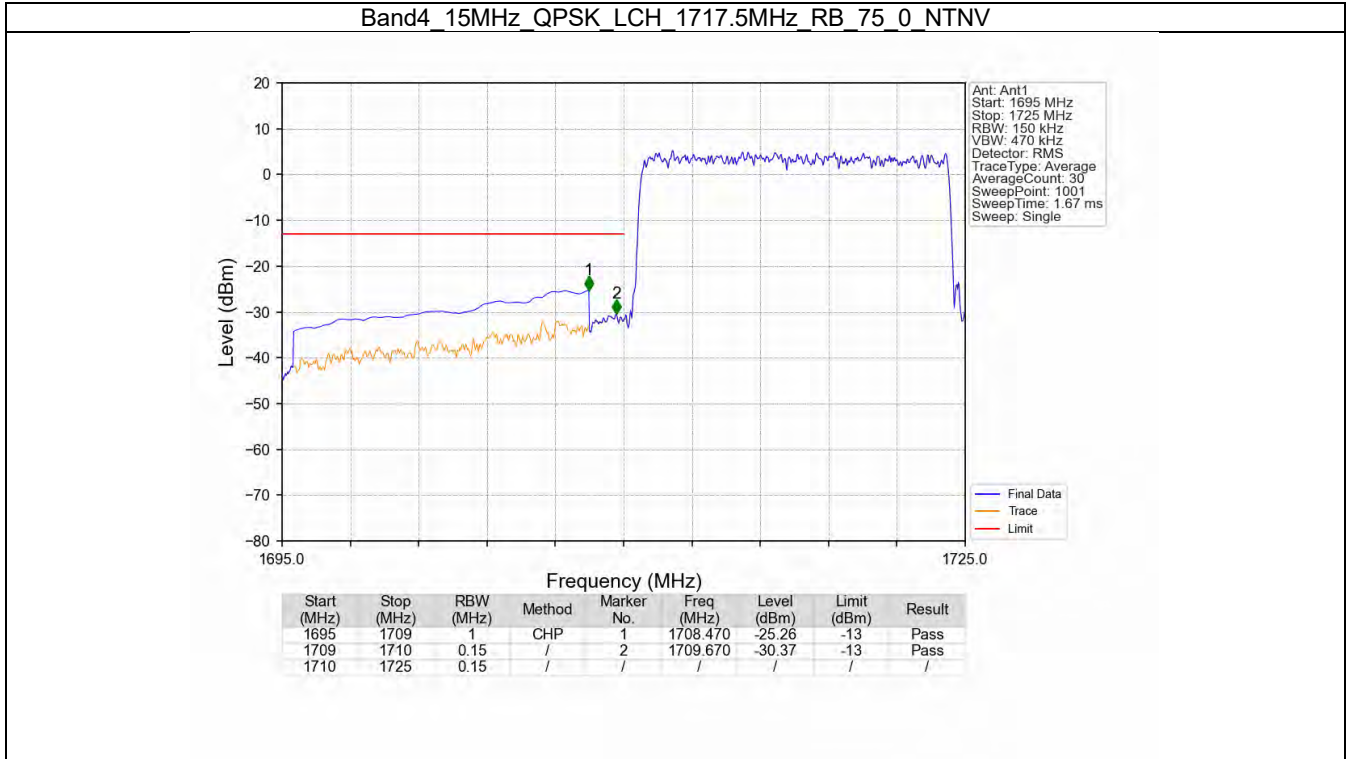
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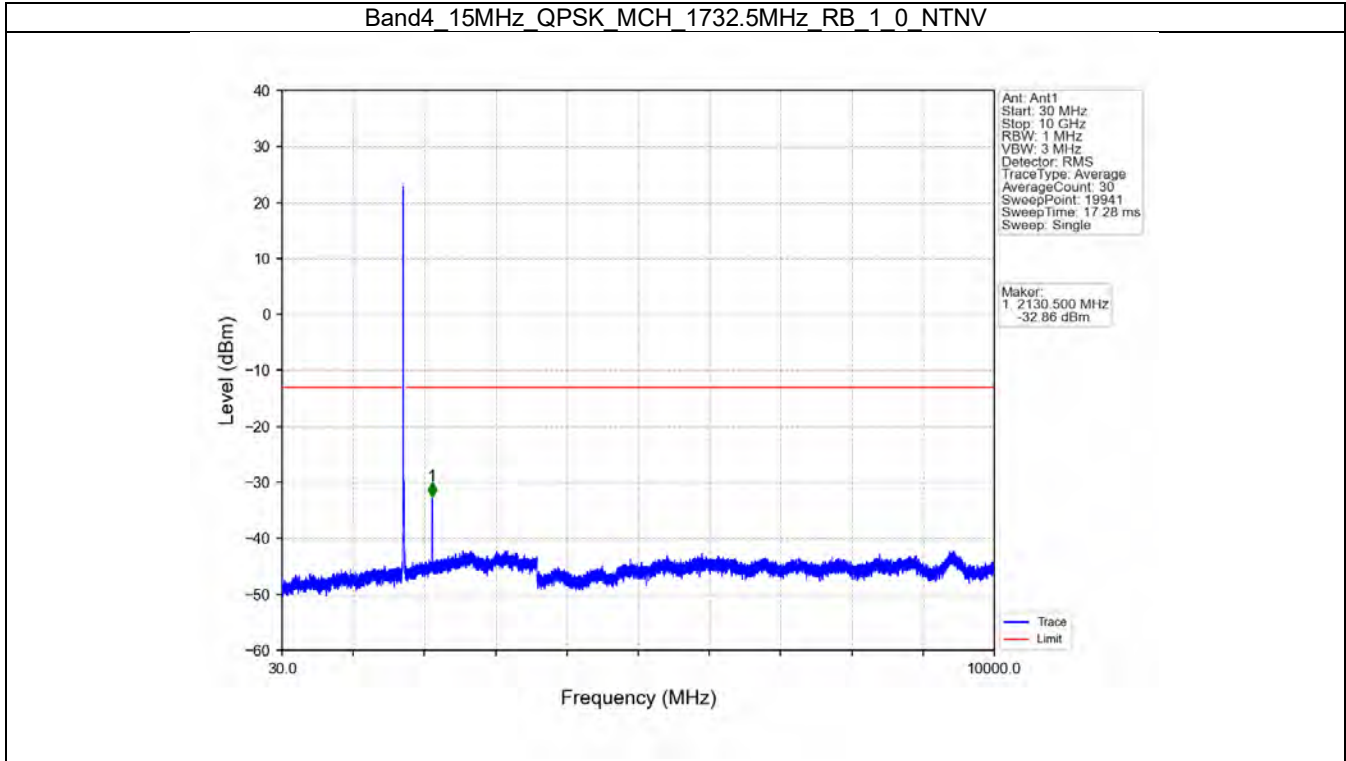
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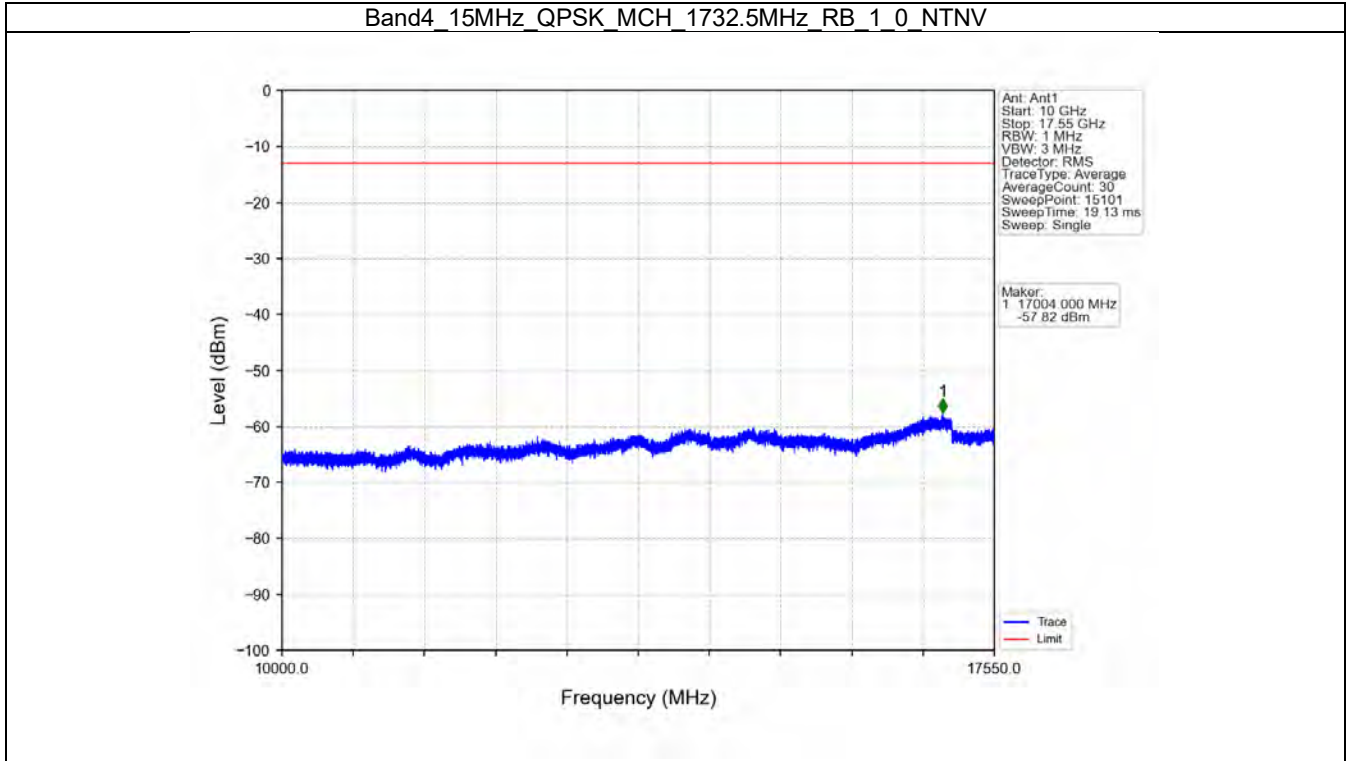
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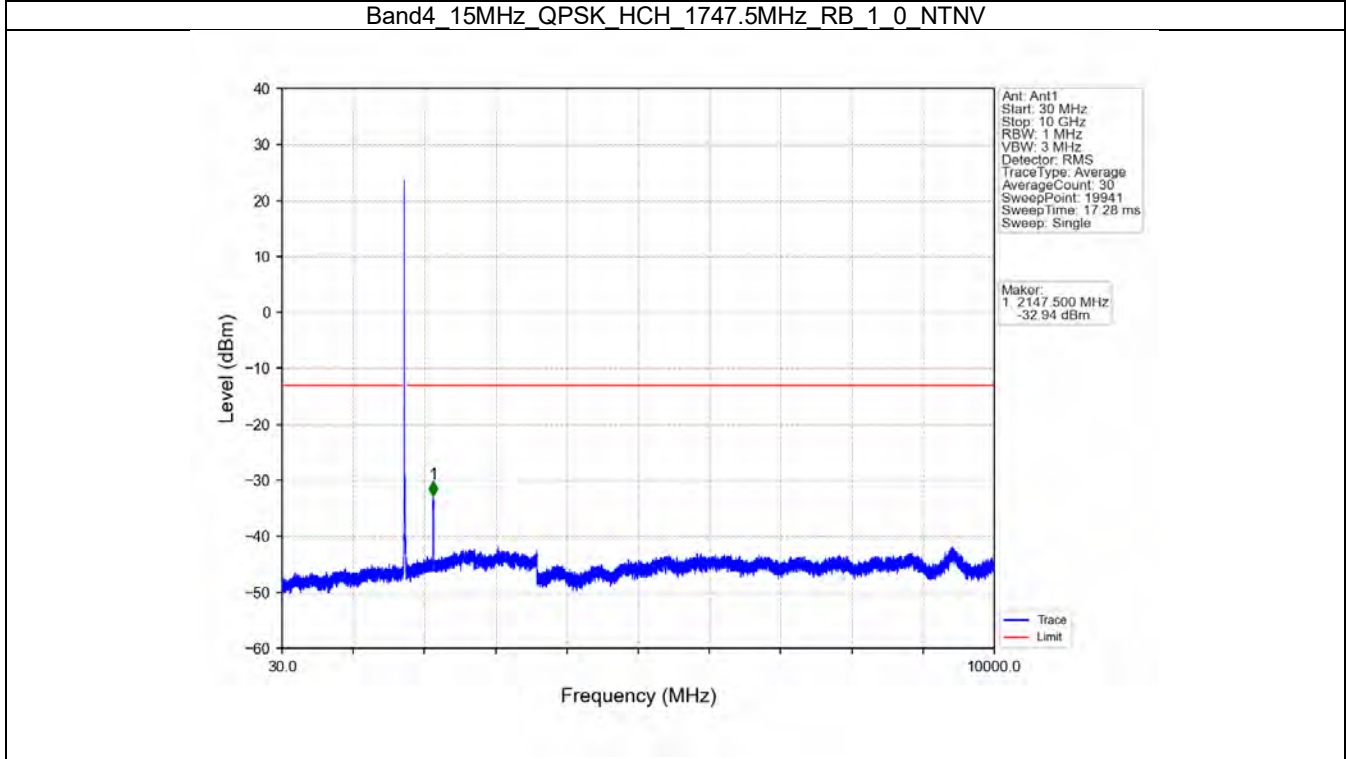
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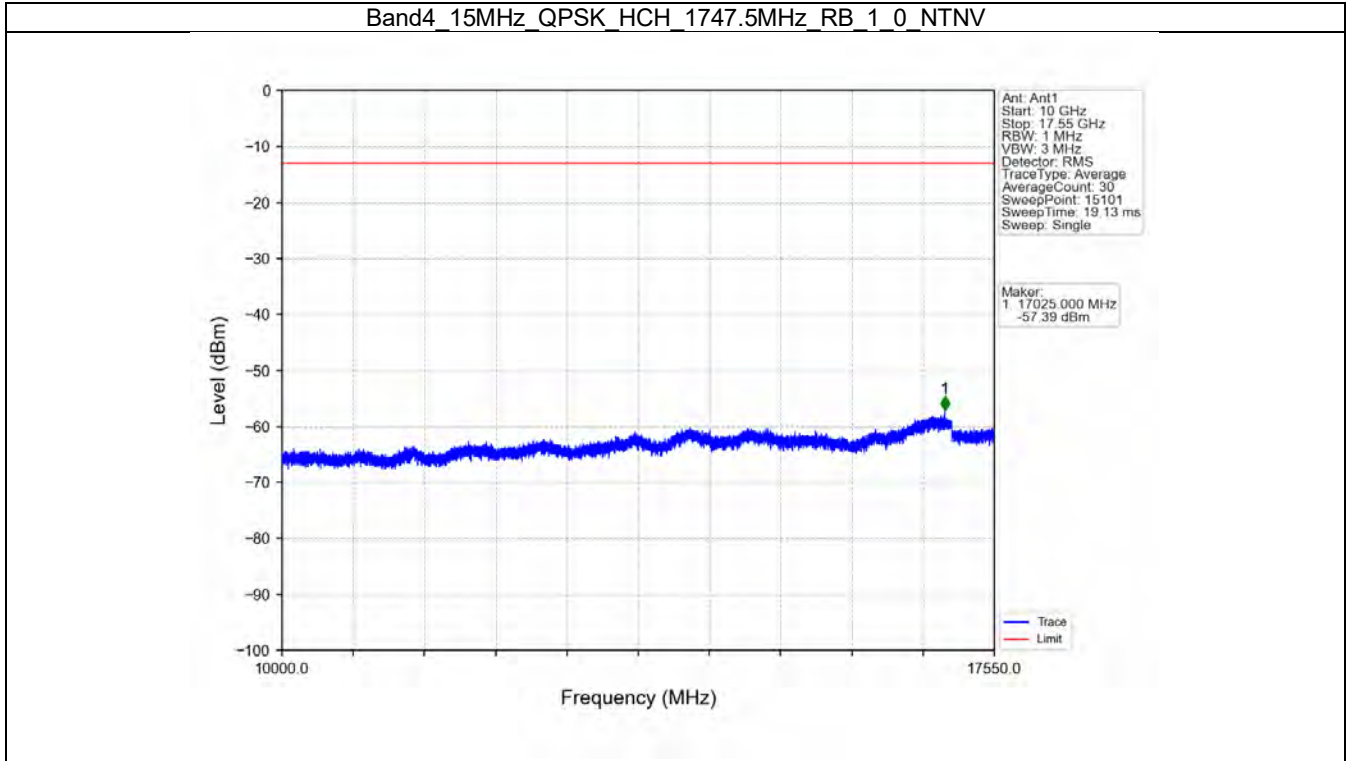
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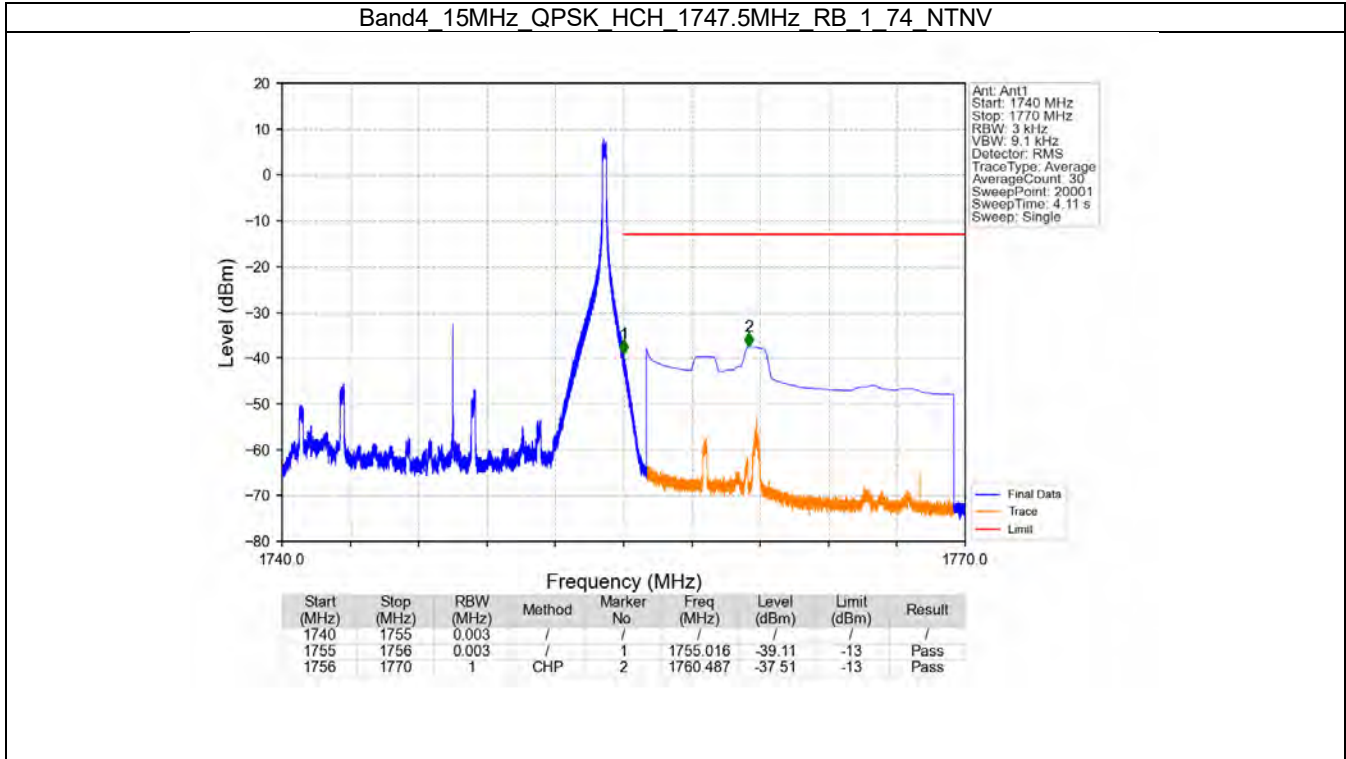
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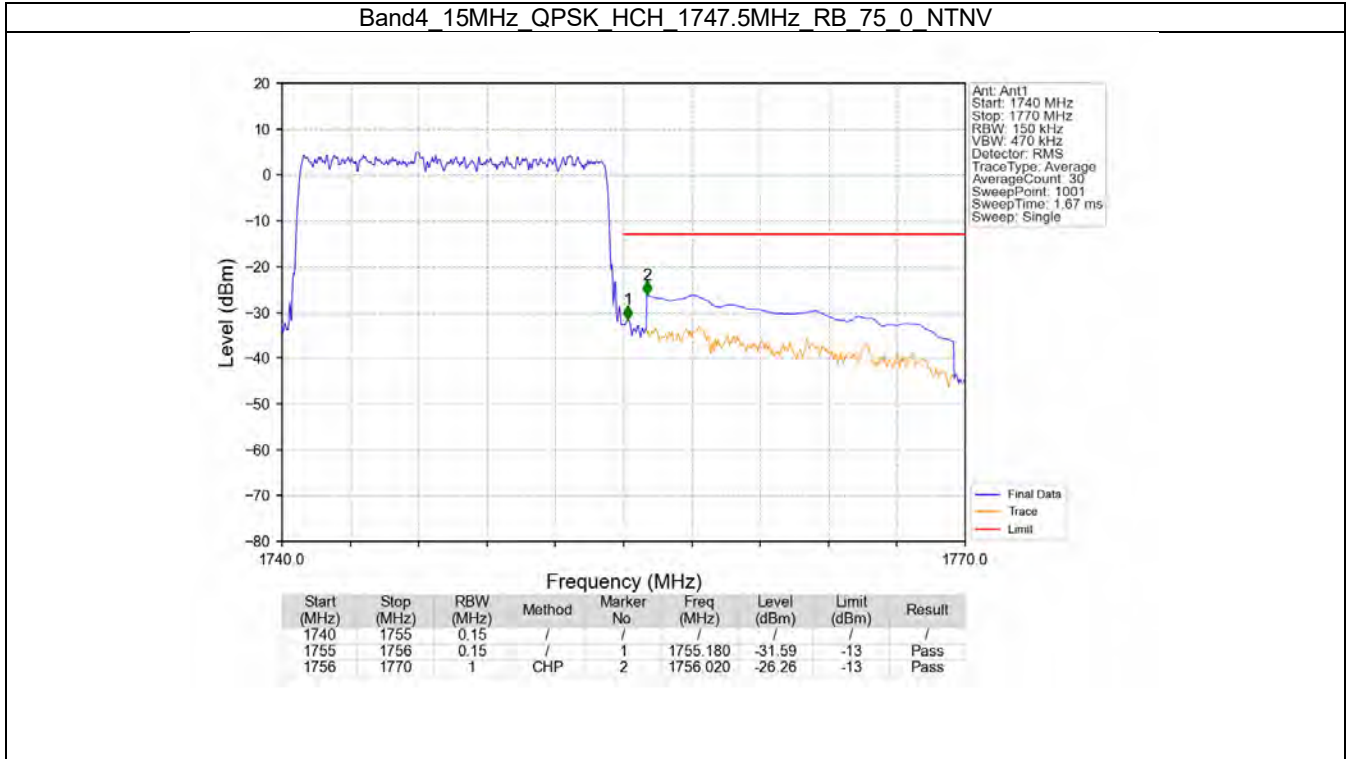
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5.6 B4_20MHz

5.6.1 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	
		1	0	Refer To Test Graph		Pass	
	1745			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass	

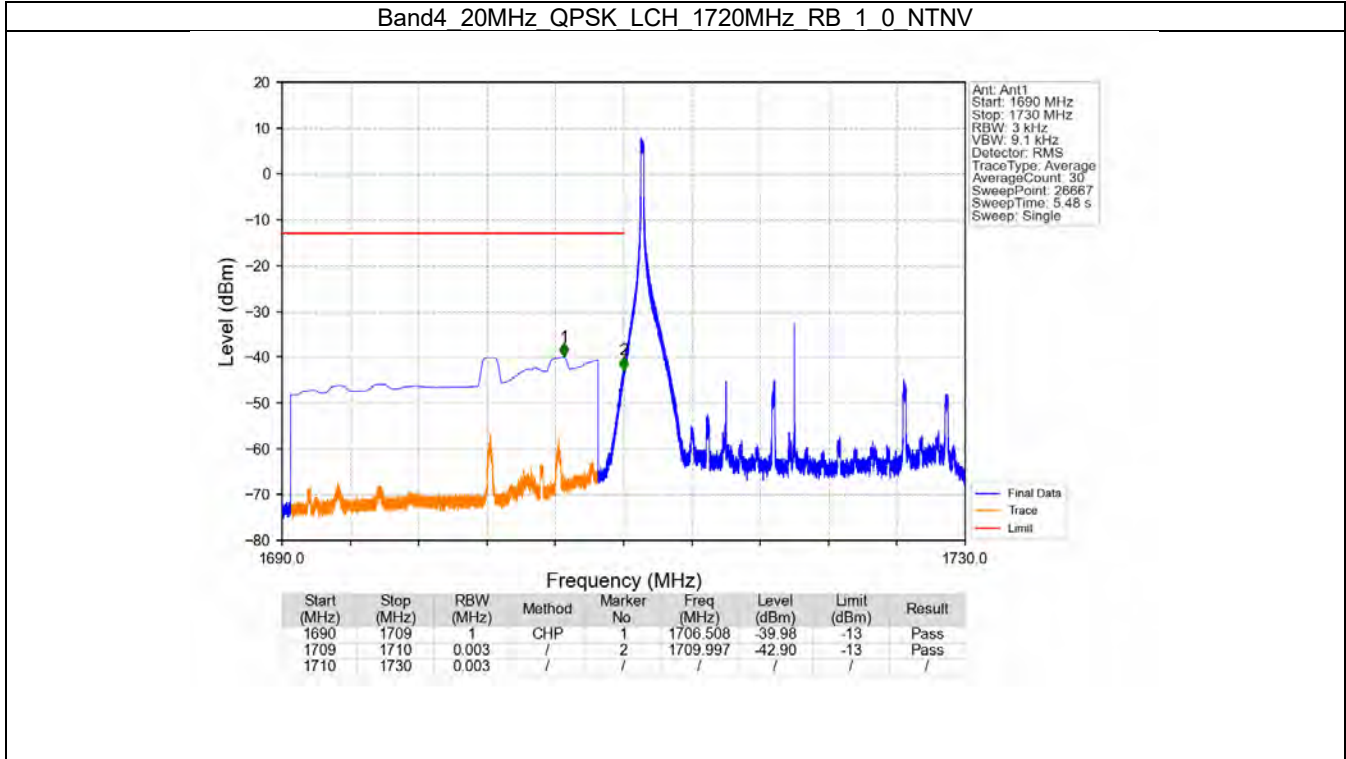


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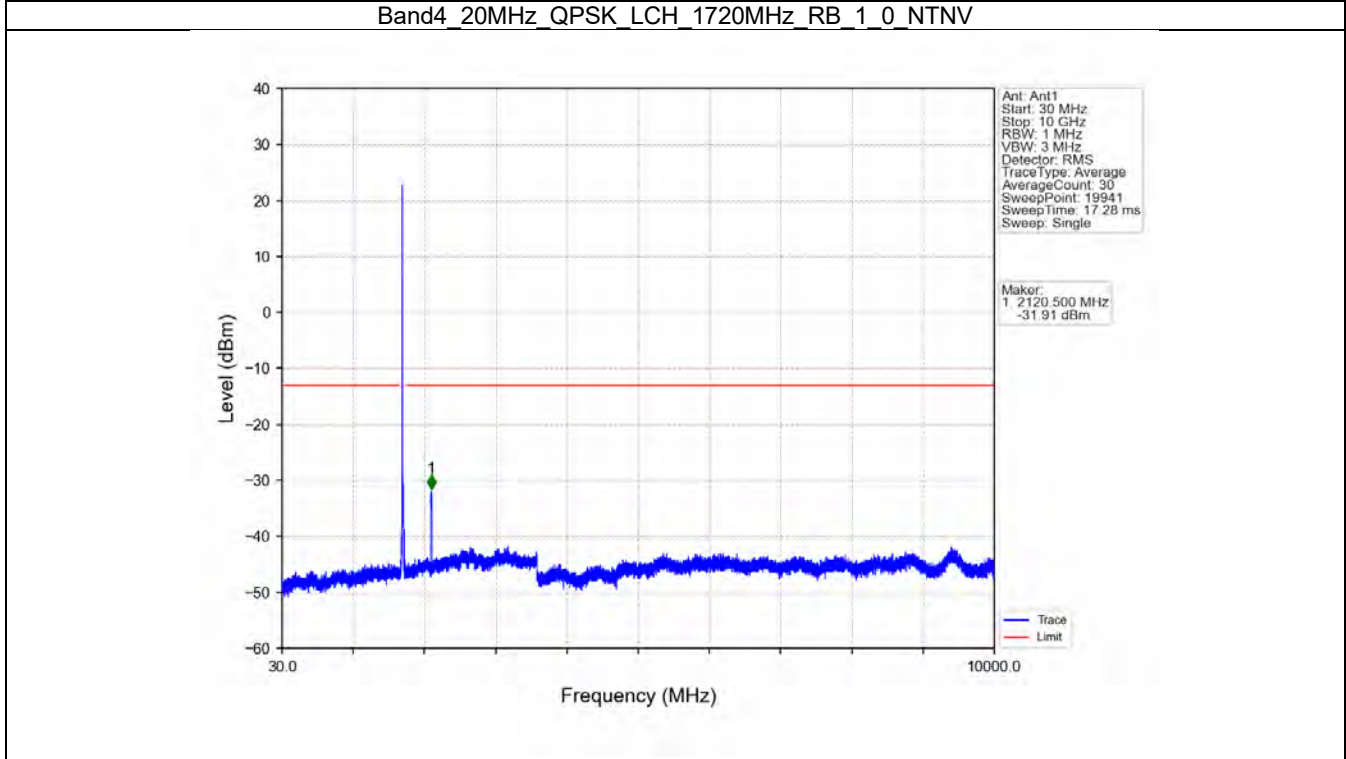
5.6.2 Test Graph



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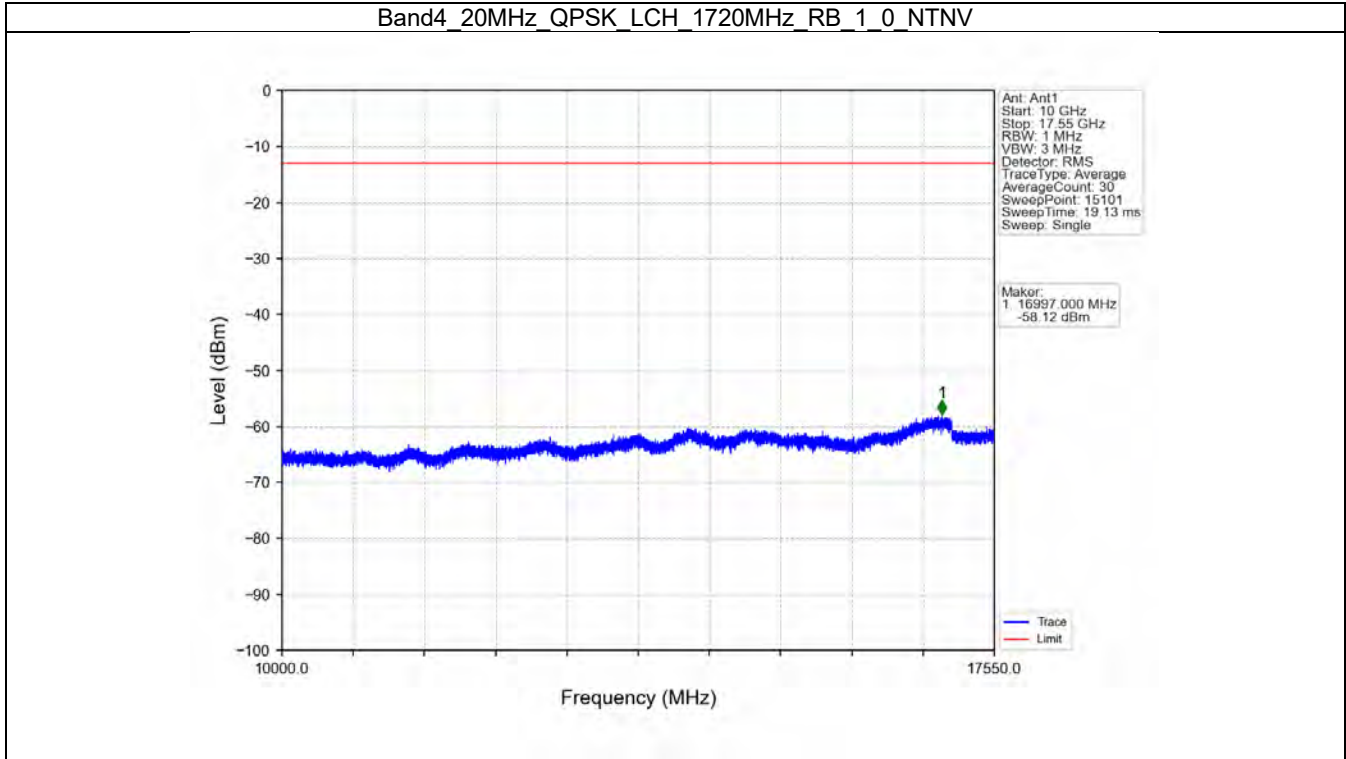


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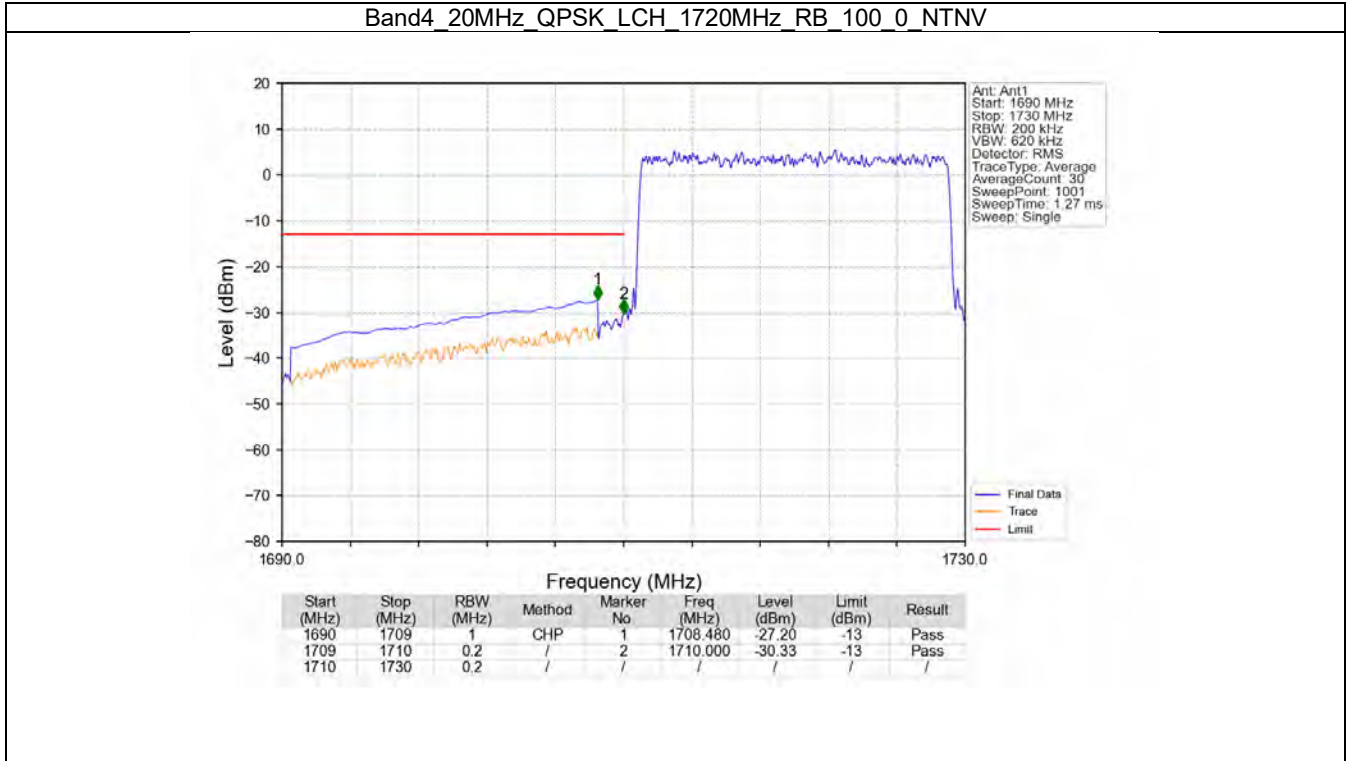
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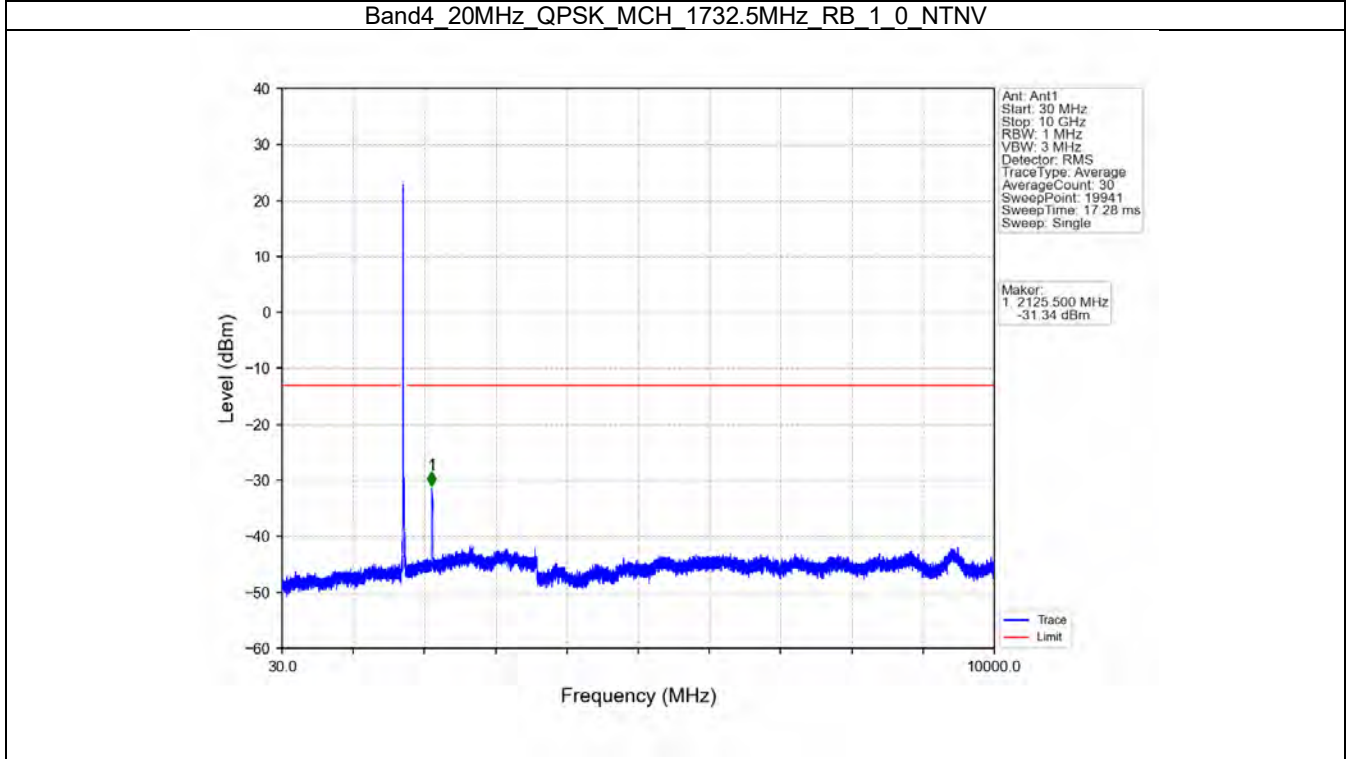
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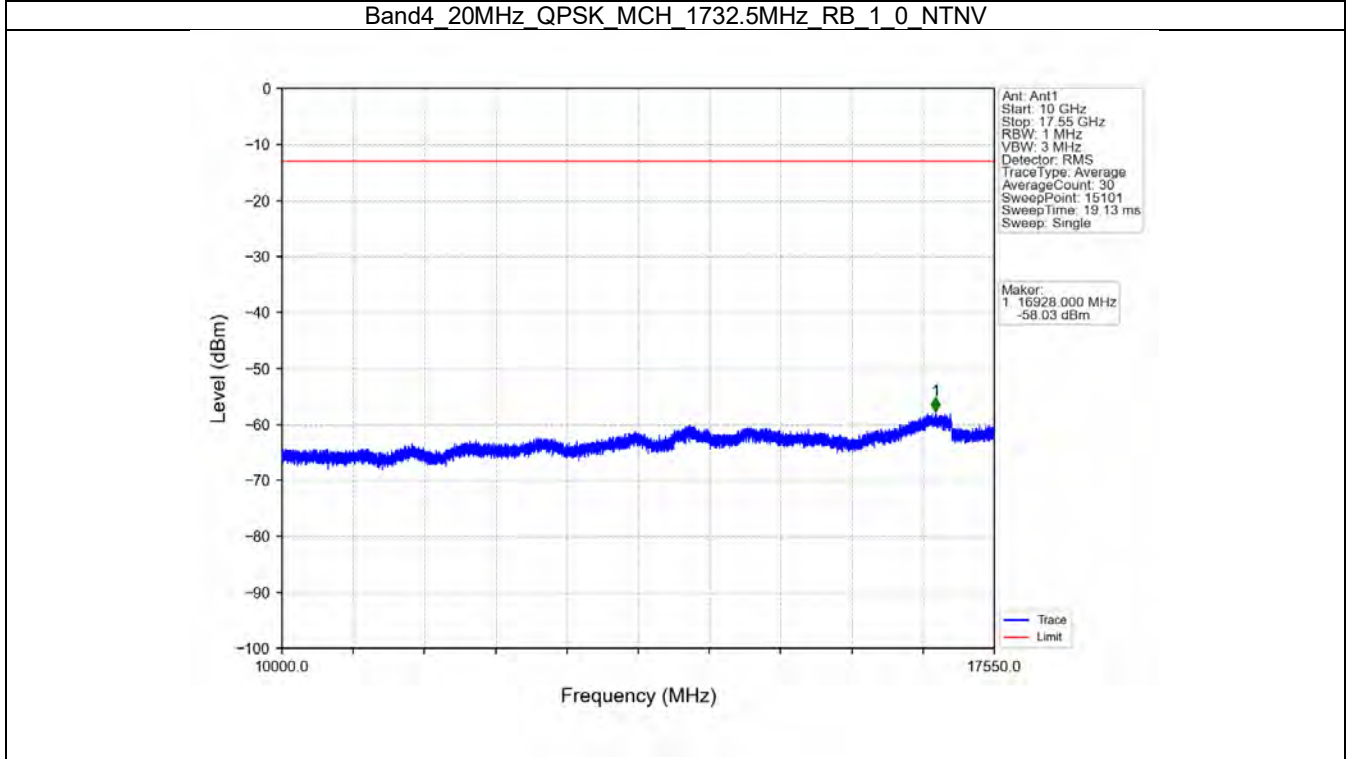
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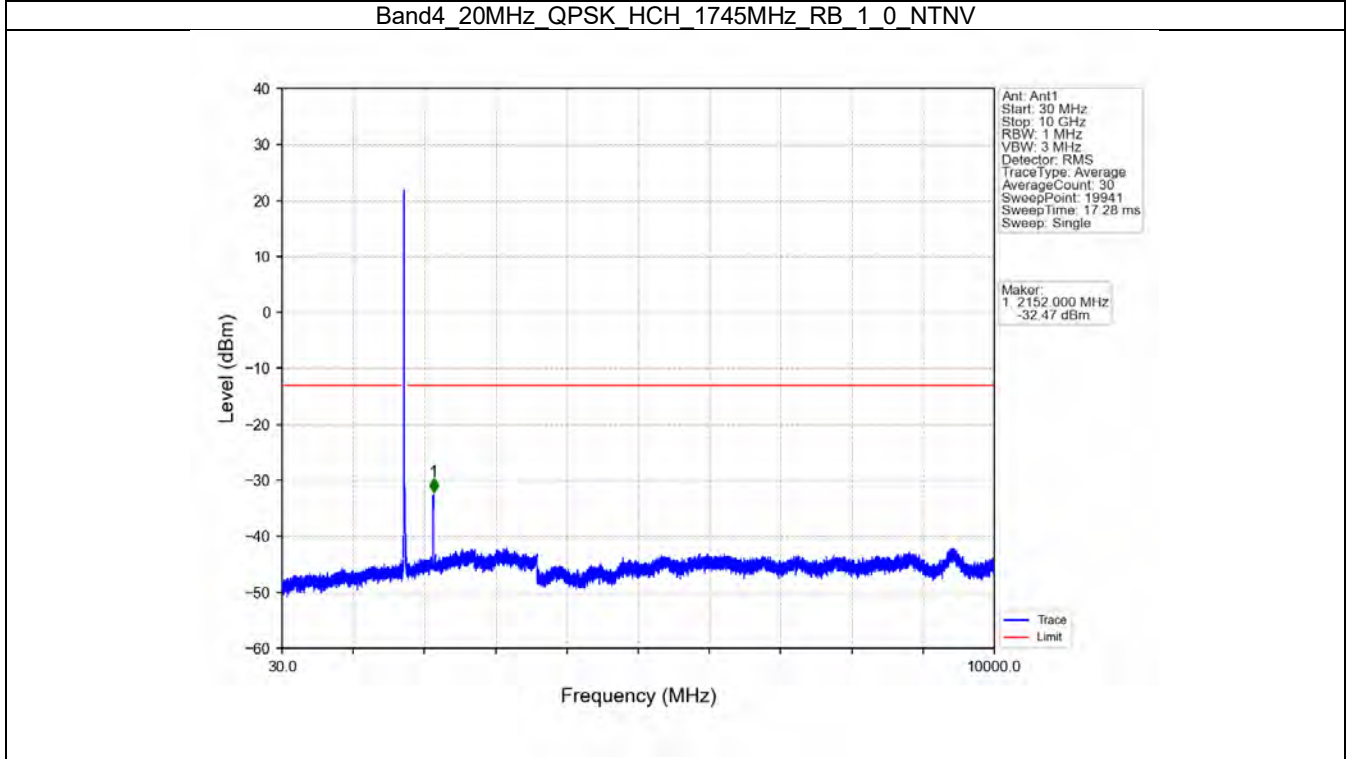


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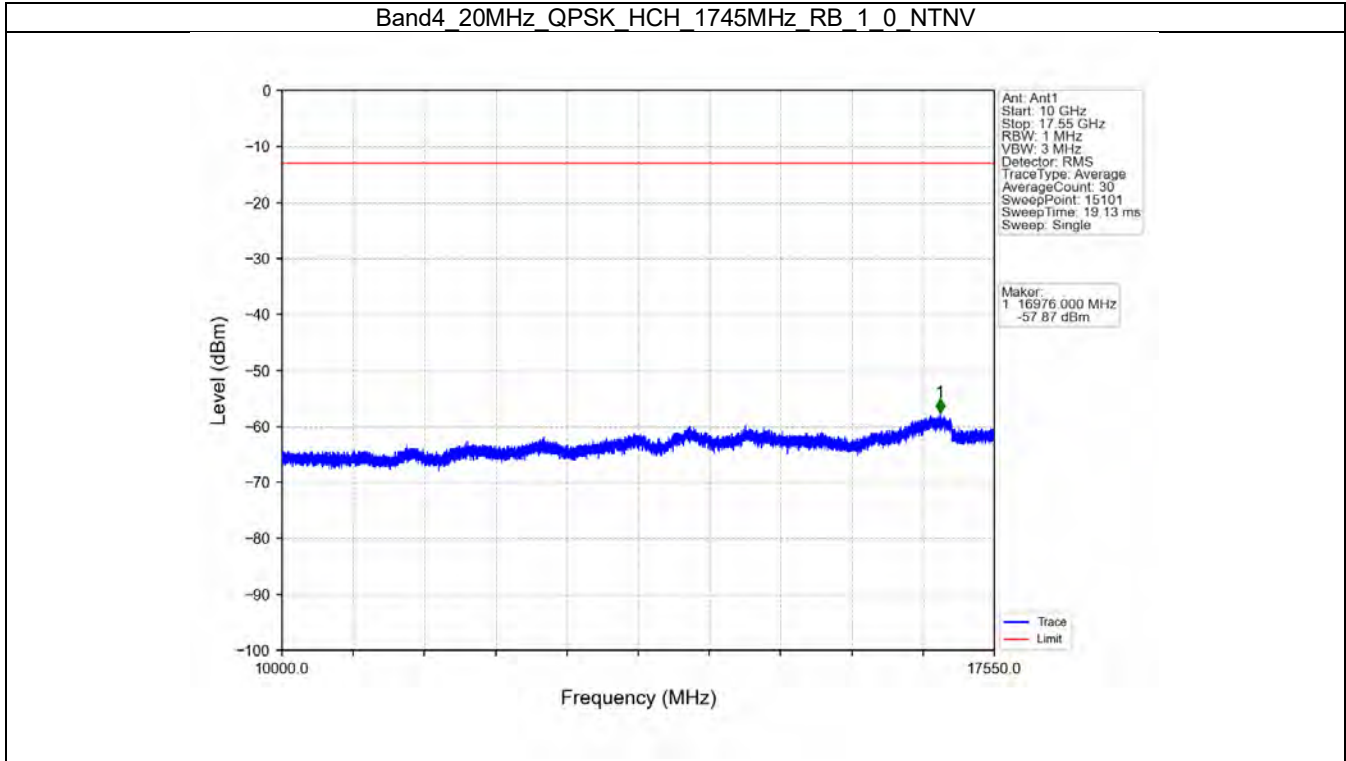
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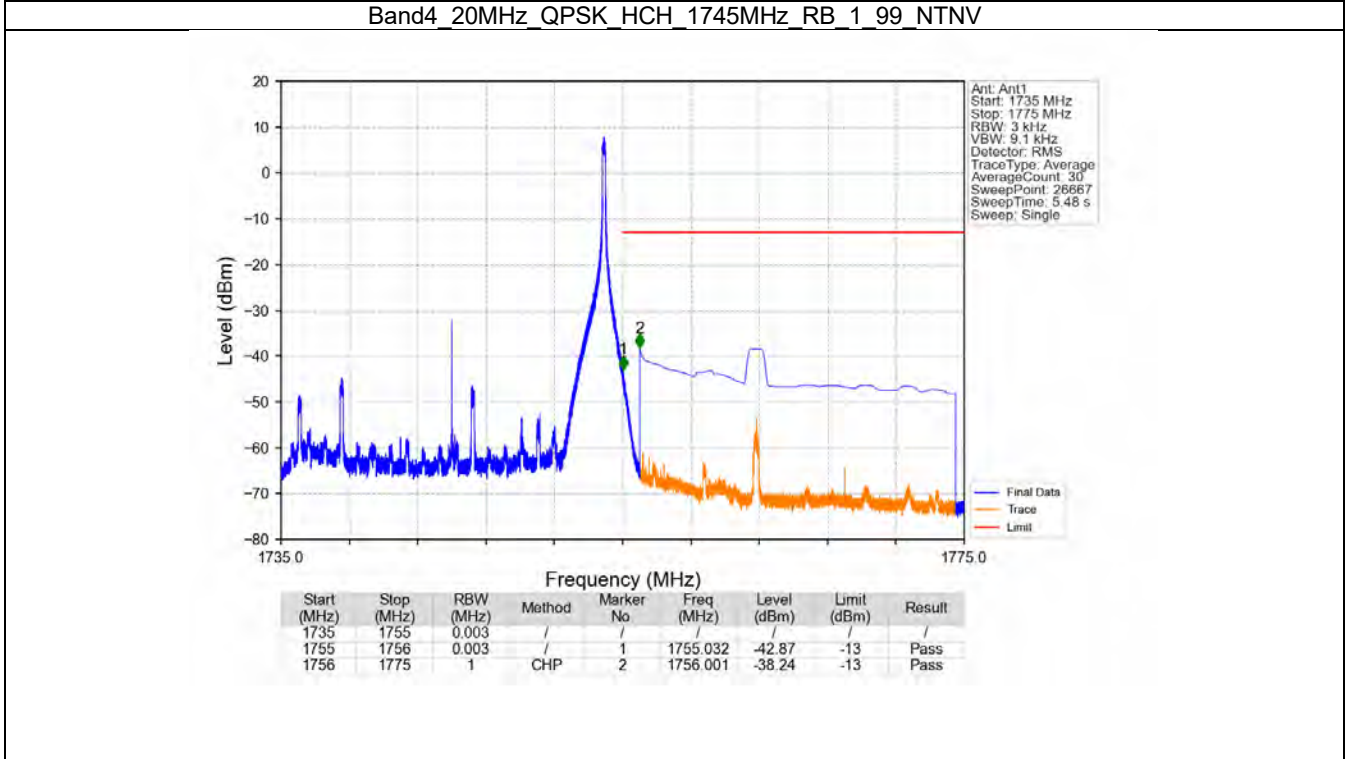
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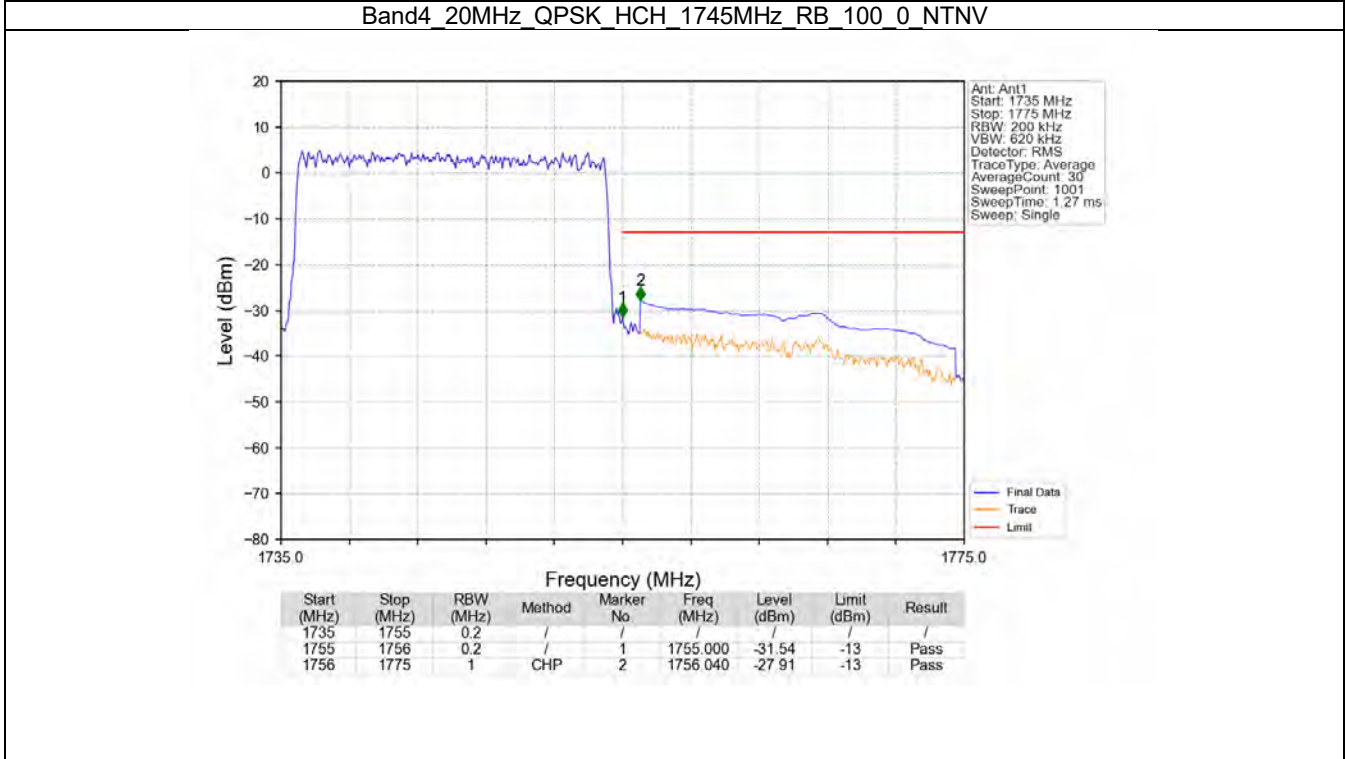
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6. Field Strength of Spurious Radiation

Test Band = LTE Band4_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	39.53	-46.28	28.55	-73.45	-13.00	60.45	Horizontal
2	5133.2700	38.82	-45.34	31.72	-70.06	-13.00	57.06	Horizontal
3	6844.3600	38.43	-44.14	34.92	-66.05	-13.00	53.05	Horizontal
4	8555.4500	35.69	-41.46	36.52	-64.51	-13.00	51.51	Horizontal
5	10266.5400	32.11	-39.23	38.33	-64.04	-13.00	51.04	Horizontal
6	11977.6300	29.37	-37.51	38.80	-64.61	-13.00	51.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.1800	40.47	-46.28	28.55	-72.51	-13.00	59.51	Vertical
2	5133.2700	38.34	-45.34	31.72	-70.54	-13.00	57.54	Vertical
3	6844.3600	37.82	-44.14	34.92	-66.66	-13.00	53.66	Vertical
4	8555.4500	36.28	-41.46	36.52	-63.92	-13.00	50.92	Vertical
5	10266.5400	32.31	-39.23	38.33	-63.84	-13.00	50.84	Vertical
6	11977.6300	29.98	-37.51	38.80	-64.00	-13.00	51.00	Vertical



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Rev.: 01

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Test Band = LTE Band4_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	41.14	-46.27	28.57	-71.82	-13.00	58.82	Horizontal
2	5170.7700	39.65	-45.31	31.81	-69.10	-13.00	56.10	Horizontal
3	6894.3600	38.45	-44.10	35.01	-65.90	-13.00	52.90	Horizontal
4	8617.9500	36.04	-41.40	36.49	-64.12	-13.00	51.12	Horizontal
5	10341.5400	32.46	-39.06	38.37	-63.49	-13.00	50.49	Horizontal
6	12065.1300	30.27	-37.44	38.82	-63.61	-13.00	50.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.1800	40.52	-46.27	28.57	-72.44	-13.00	59.44	Vertical
2	5170.7700	39.20	-45.31	31.81	-69.55	-13.00	56.55	Vertical
3	6894.3600	38.51	-44.10	35.01	-65.84	-13.00	52.84	Vertical
4	8617.9500	36.10	-41.40	36.49	-64.06	-13.00	51.06	Vertical
5	10341.5400	33.17	-39.06	38.37	-62.78	-13.00	49.78	Vertical
6	12065.1300	29.97	-37.44	38.82	-63.91	-13.00	50.91	Vertical



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Test Band = LTE Band4_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	40.65	-46.27	28.58	-72.29	-13.00	59.29	Horizontal
2	5208.2700	39.31	-45.26	31.90	-69.31	-13.00	56.31	Horizontal
3	6944.3600	38.21	-43.85	35.10	-65.80	-13.00	52.80	Horizontal
4	8680.4500	36.08	-41.62	36.46	-64.34	-13.00	51.34	Horizontal
5	10416.5400	31.99	-38.97	38.41	-63.84	-13.00	50.84	Horizontal
6	12152.6300	30.58	-37.42	38.85	-63.25	-13.00	50.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.1800	40.70	-46.27	28.58	-72.24	-13.00	59.24	Vertical
2	5208.2700	39.06	-45.26	31.90	-69.56	-13.00	56.56	Vertical
3	6944.3600	39.21	-43.85	35.10	-64.80	-13.00	51.80	Vertical
4	8680.4500	36.96	-41.62	36.46	-63.46	-13.00	50.46	Vertical
5	10416.5400	32.79	-38.97	38.41	-63.04	-13.00	50.04	Vertical
6	12152.6300	30.52	-37.42	38.85	-63.31	-13.00	50.31	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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