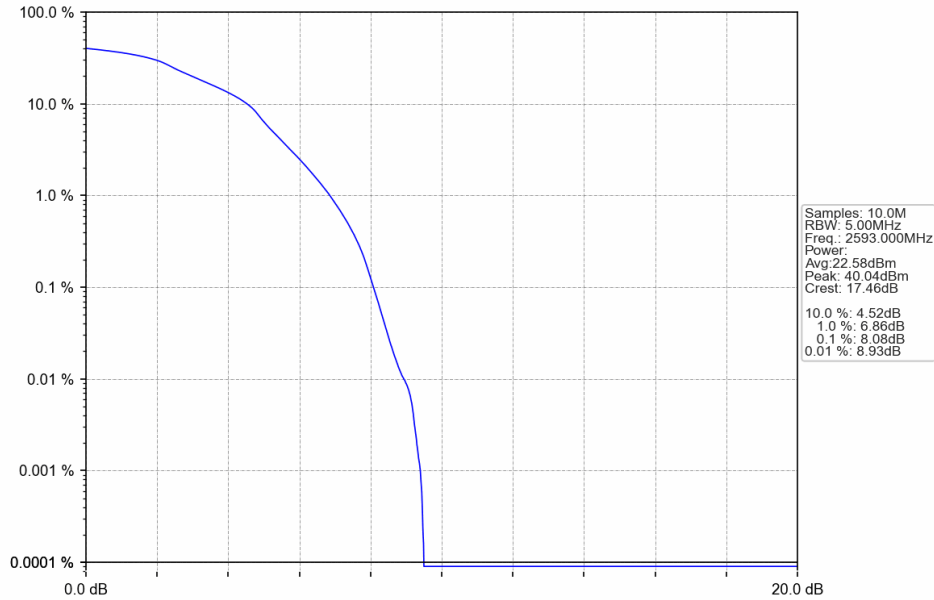




Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



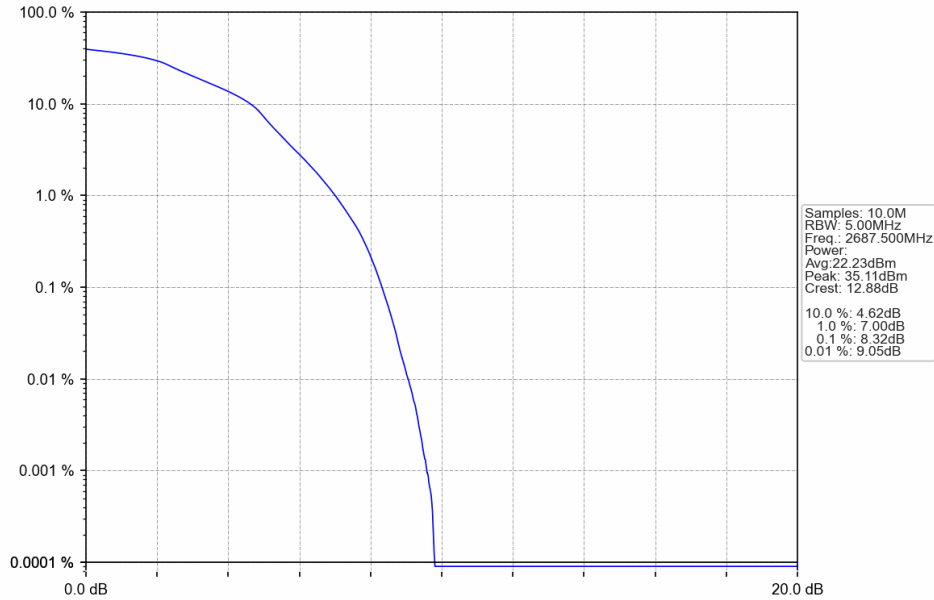
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Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



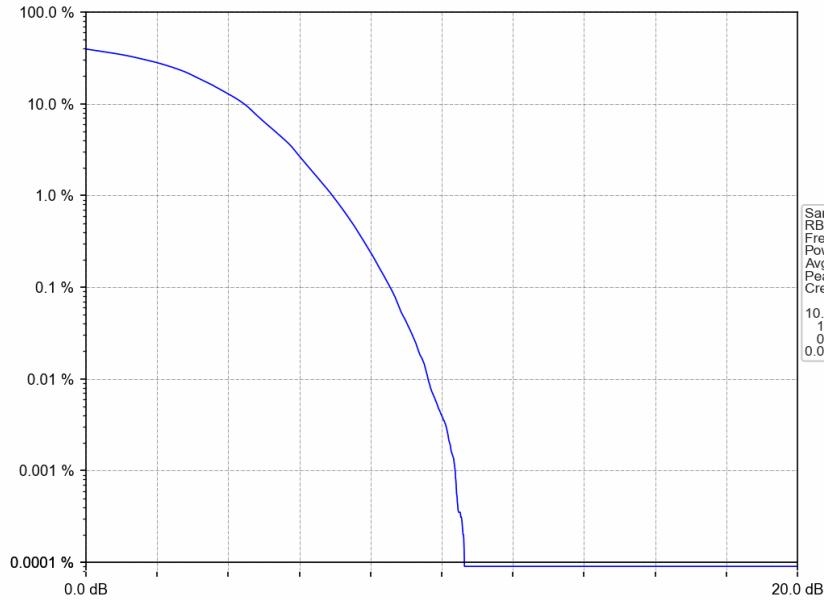
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Band41\_5MHz\_64QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 2498.500MHz  
 Power:  
 Avg: 21.47dBm  
 Peak: 32.20dBm  
 Crest: 10.73dB



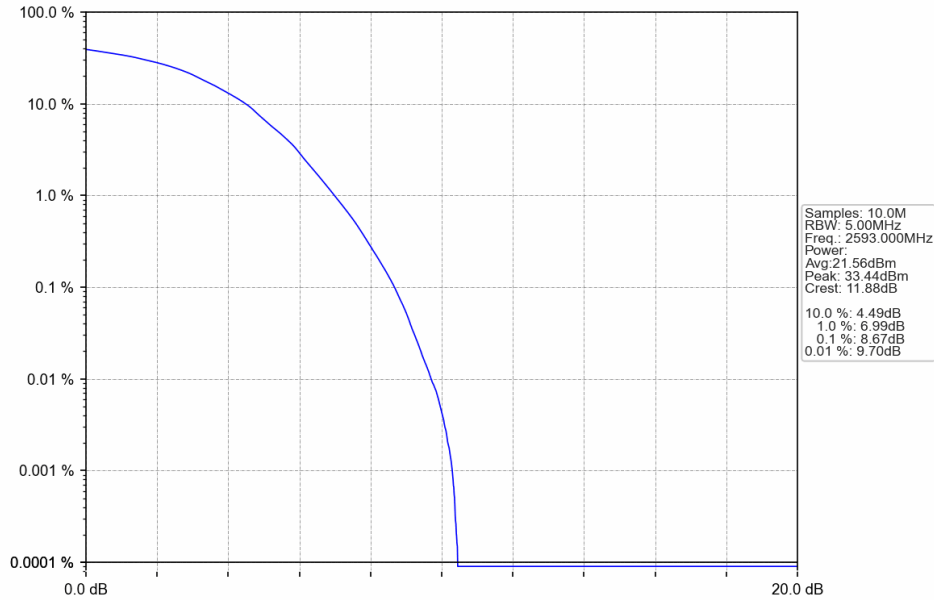
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Band41\_5MHz\_64QAM\_MCH\_2593MHz\_RB\_25\_0\_NTNV



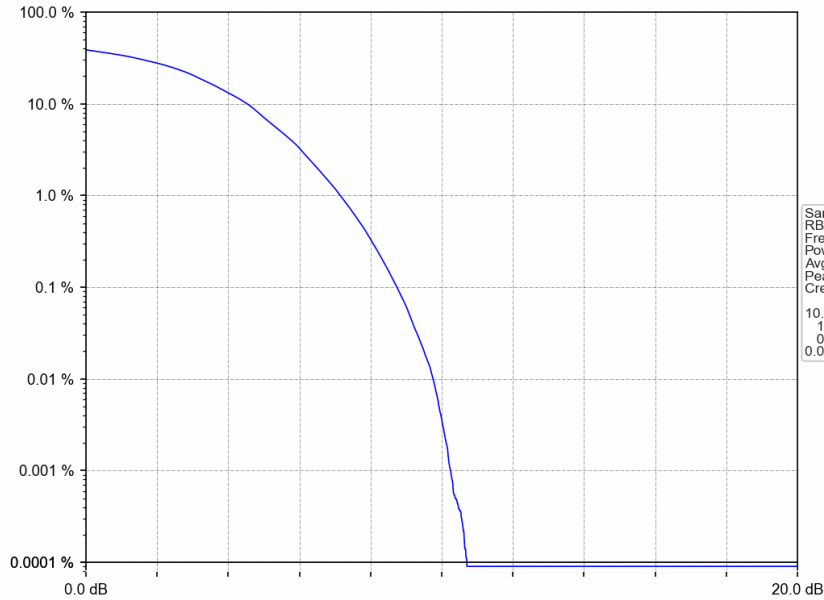
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Band41\_5MHz\_64QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 2687.500MHz  
 Power:  
 Avg: 21.30dBm  
 Peak: 38.67dBm  
 Crest: 17.37dB

10.0 %: 4.53dB  
 1.0 %: 7.15dB  
 0.1 %: 8.74dB  
 0.01 %: 9.76dB



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3.2 B41\_10MHz

3.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	7.38	<=13	Pass
	2593	50	0	7.32	<=13	Pass
	2685	50	0	7.34	<=13	Pass
16QAM	2501	50	0	8.10	<=13	Pass
	2593	50	0	8.07	<=13	Pass
	2685	50	0	8.42	<=13	Pass
64QAM	2501	50	0	8.42	<=13	Pass
	2593	50	0	8.74	<=13	Pass
	2685	50	0	8.58	<=13	Pass

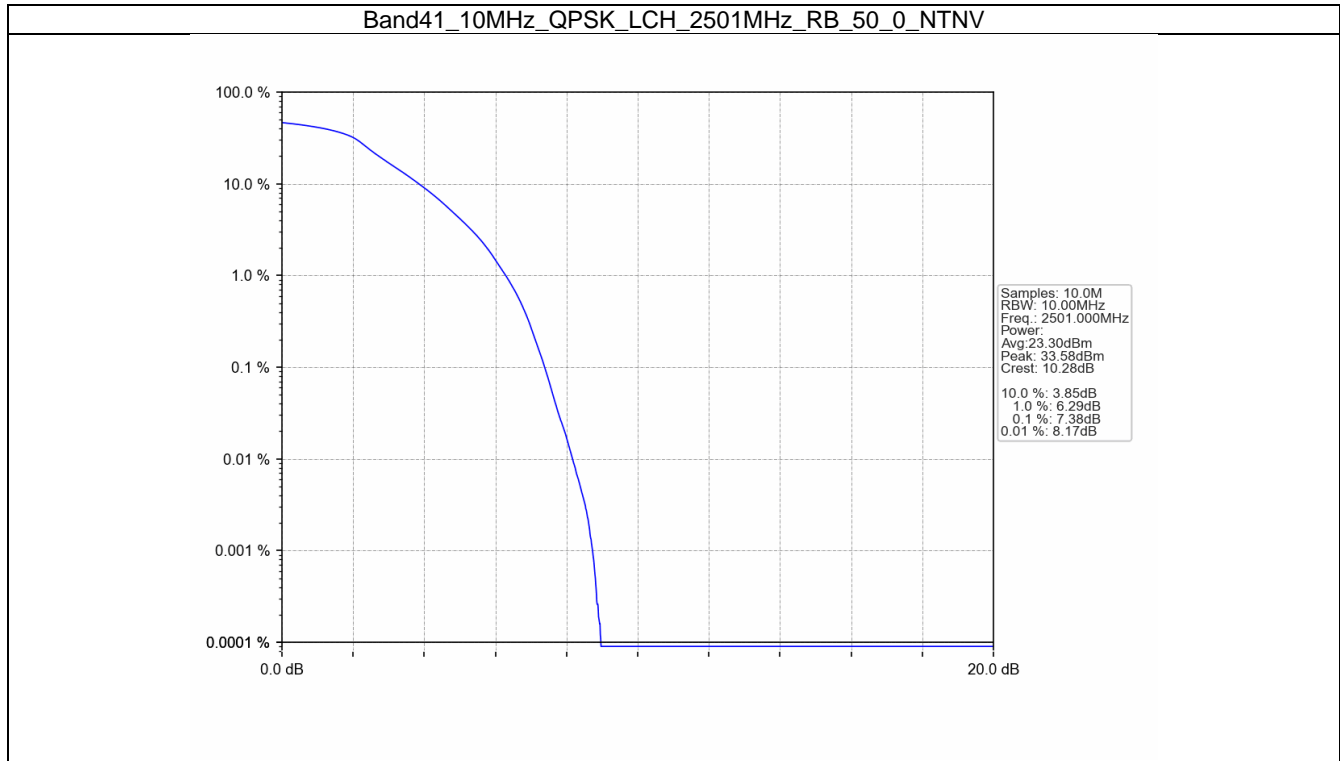


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3.2.2 Test Graph

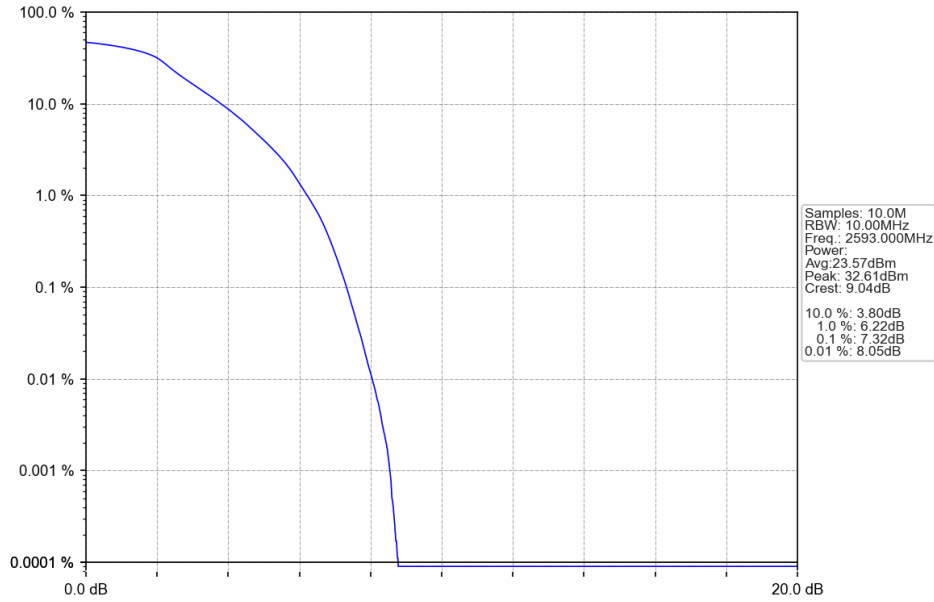


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Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_50\_0\_NTNV



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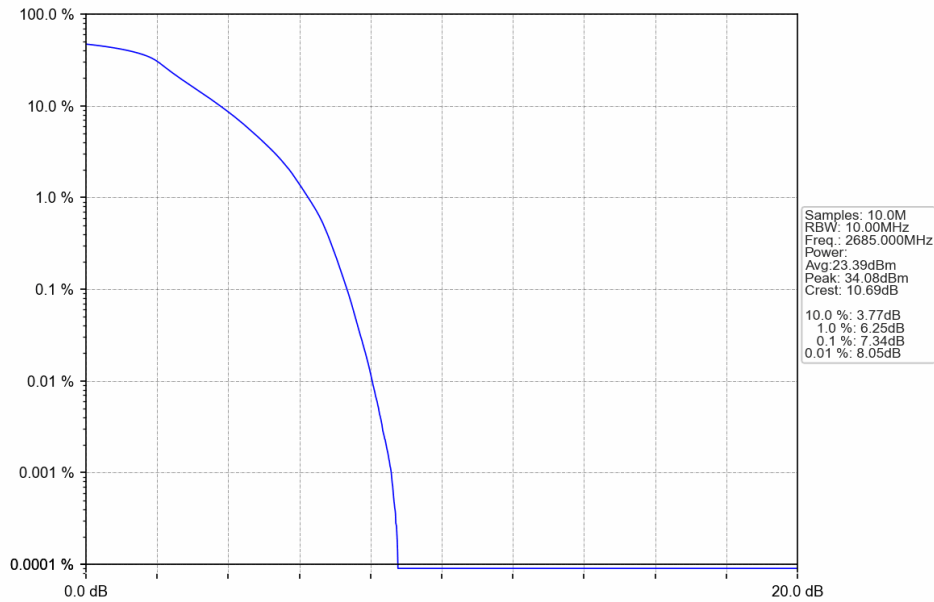
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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



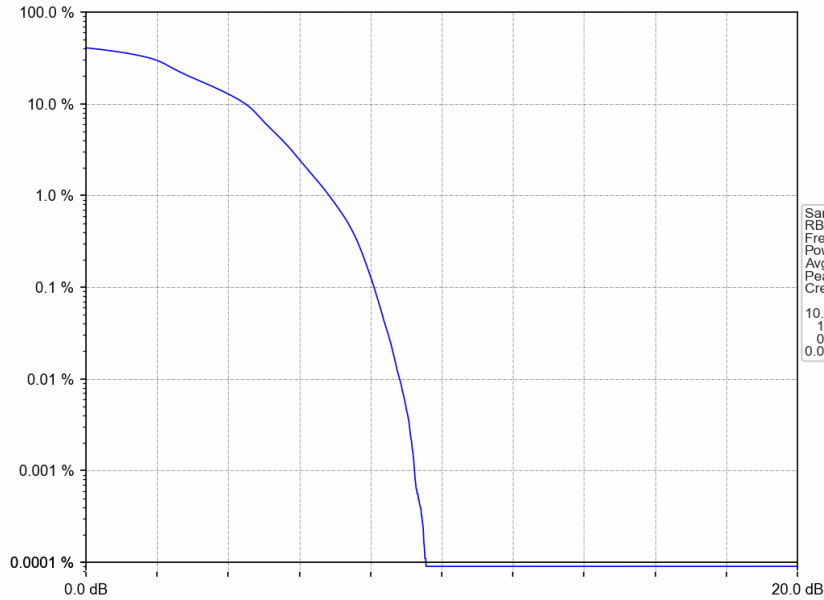
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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2501.000MHz  
 Power:  
 Avg: 22.34dBm  
 Peak: 32.33dBm  
 Crest: 9.99dB

10.0 %: 4.48dB  
 1.0 %: 6.83dB  
 0.1 %: 8.10dB  
 0.01 %: 8.82dB



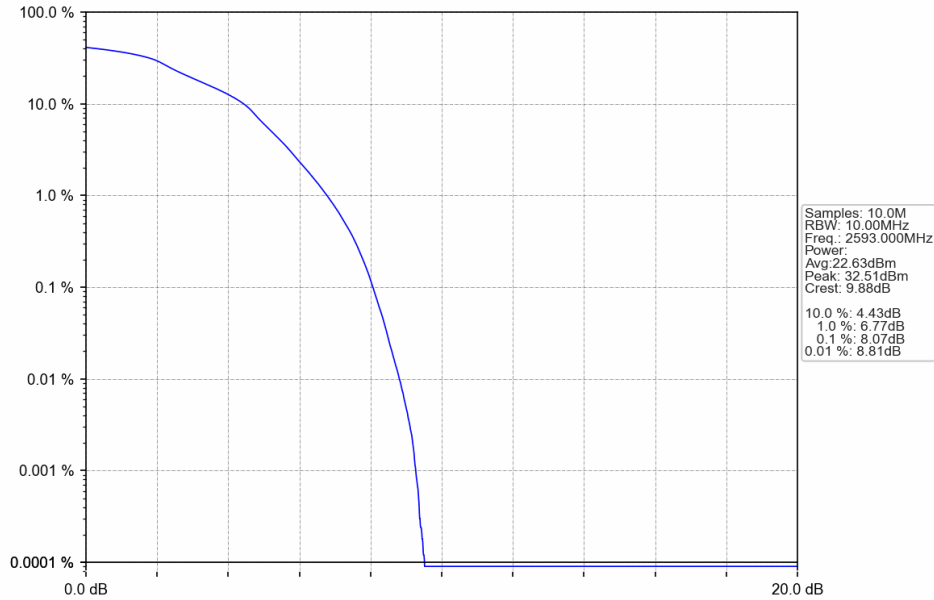
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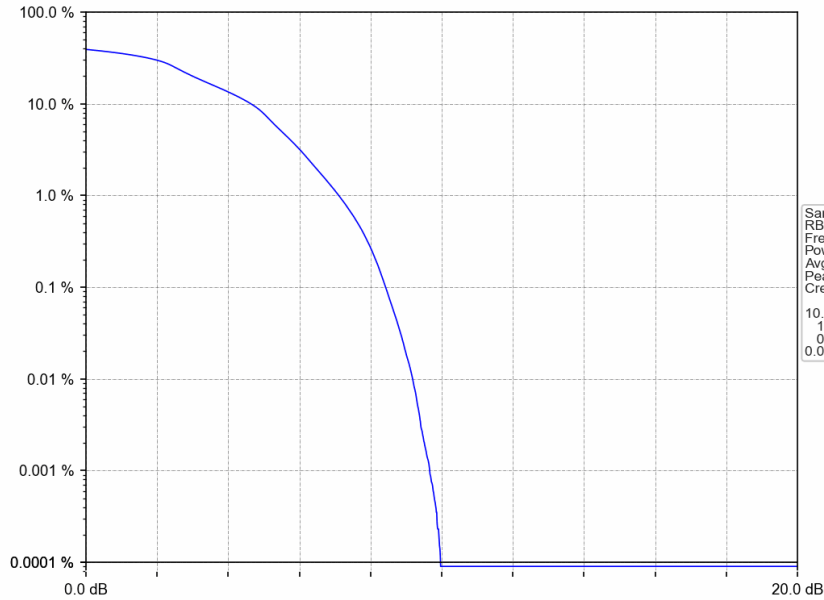
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Band41\_10MHz\_16QAM\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2685.000MHz  
 Power:  
 Avg: 22.05dBm  
 Peak: 38.23dBm  
 Crest: 16.18dB

10.0 %: 4.64dB  
 1.0 %: 7.11dB  
 0.1 %: 8.42dB  
 0.01 %: 9.18dB



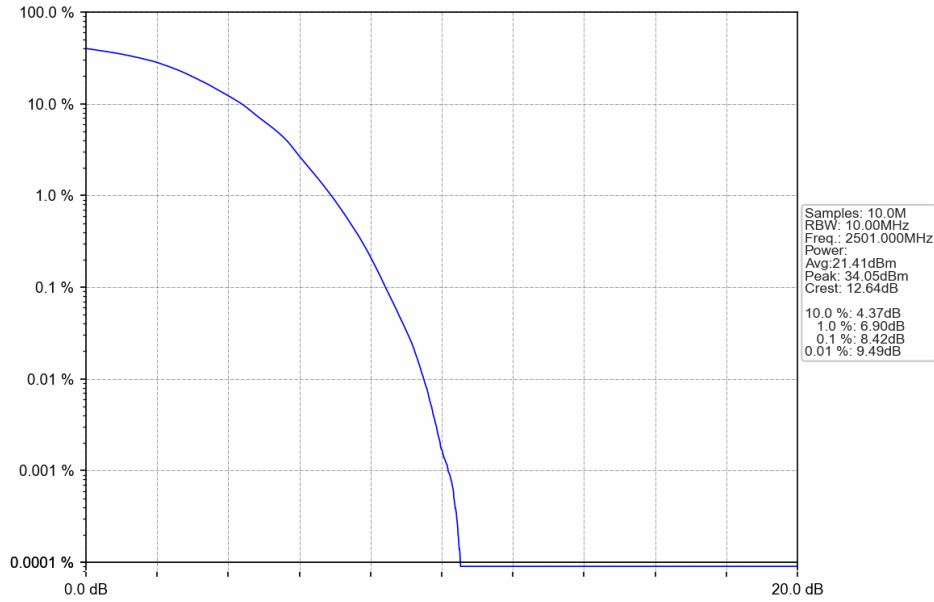
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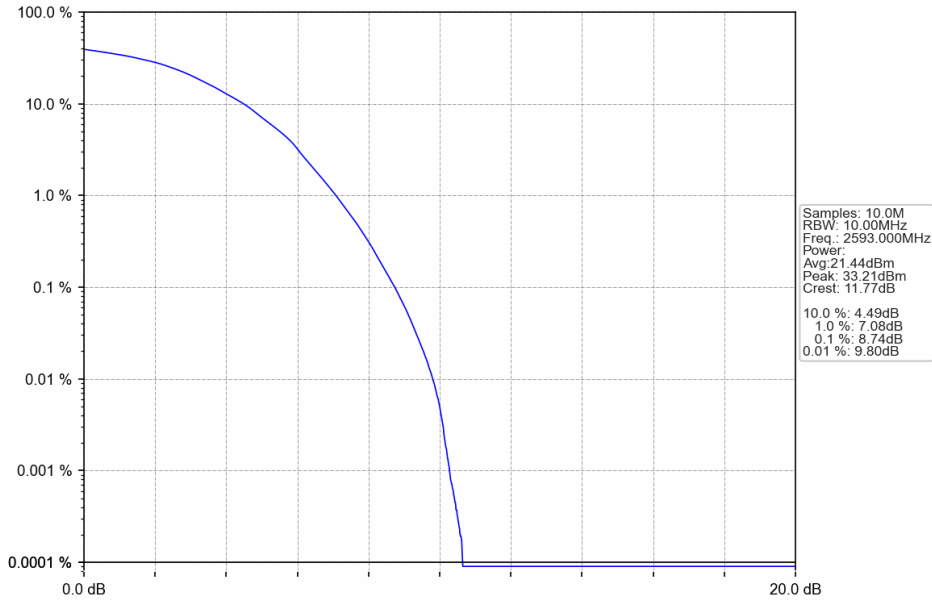
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Band41\_10MHz\_64QAM\_MCH\_2593MHz\_RB\_50\_0\_NTNV



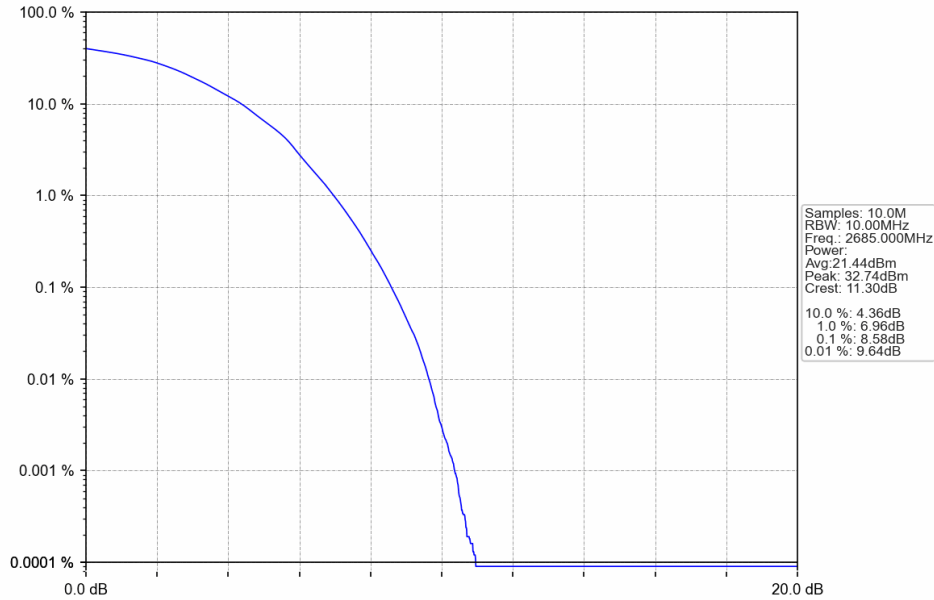
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Band41\_10MHz\_64QAM\_HCH\_2685MHz\_RB\_50\_0\_NTNV



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3.3 B41\_15MHz

3.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	7.71	<=13	Pass
	2593	75	0	7.58	<=13	Pass
	2682.5	75	0	7.53	<=13	Pass
16QAM	2503.5	75	0	8.16	<=13	Pass
	2593	75	0	8.28	<=13	Pass
	2682.5	75	0	8.34	<=13	Pass
64QAM	2503.5	75	0	8.35	<=13	Pass
	2593	75	0	8.74	<=13	Pass
	2682.5	75	0	8.71	<=13	Pass



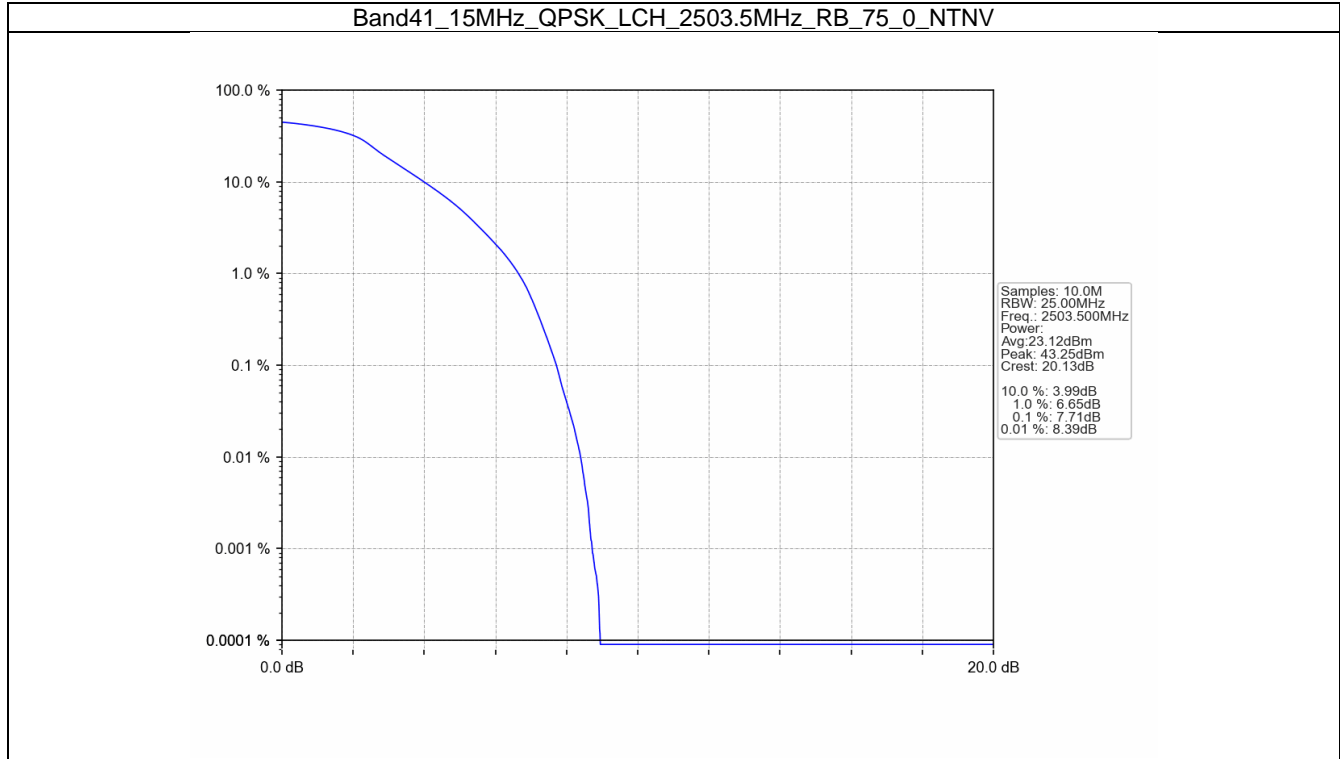
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3.3.2 Test Graph



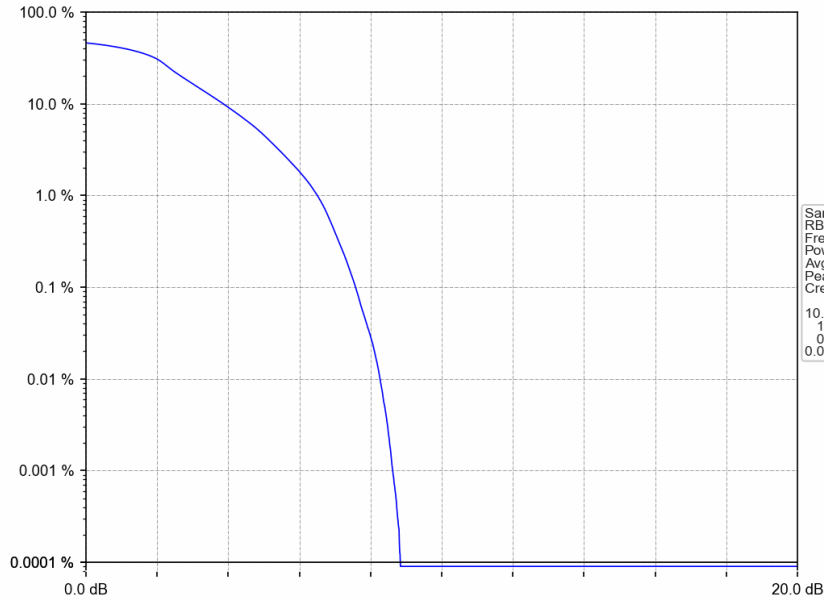
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Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2593.000MHz  
 Power:  
 Avg: 23.56dBm  
 Peak: 37.30dBm  
 Crest: 13.74dB

10.0 %: 3.86dB  
 1.0 %: 6.50dB  
 0.1 %: 7.58dB  
 0.01 %: 8.27dB



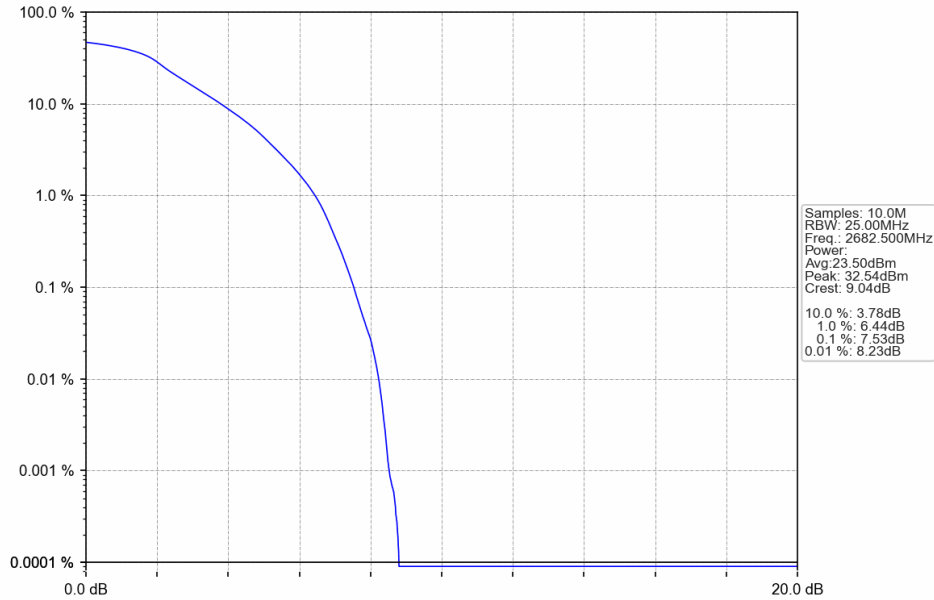
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Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



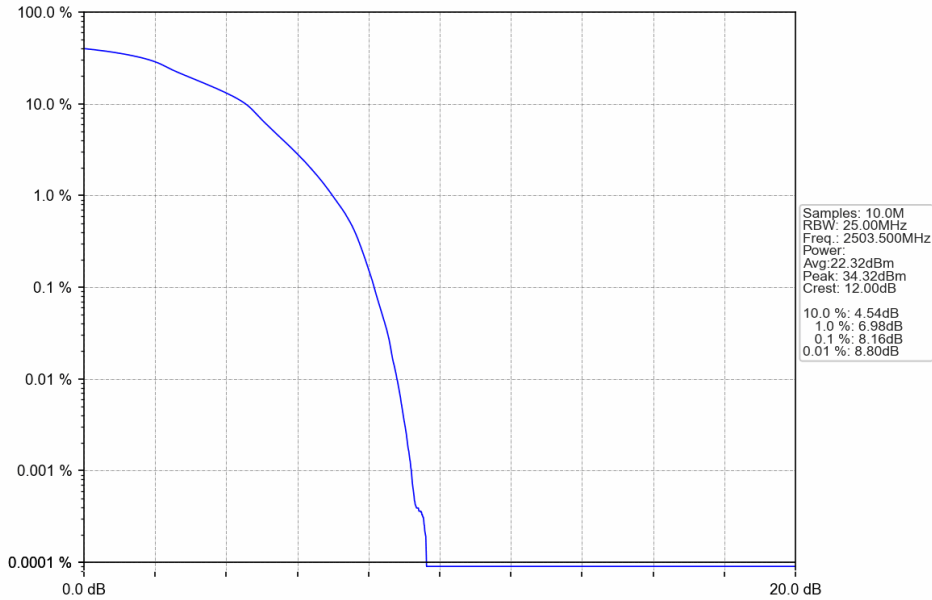
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Band41\_15MHz\_16QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



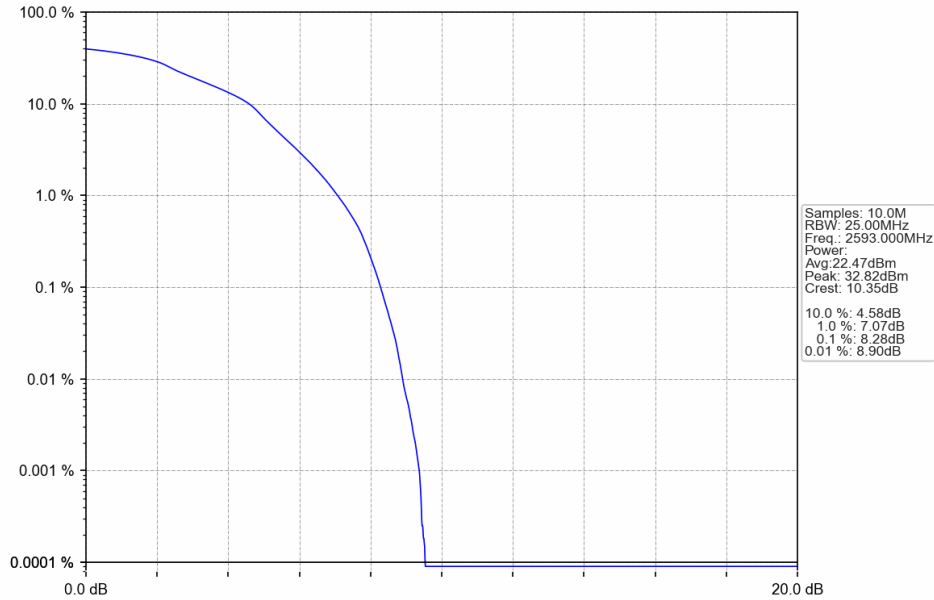
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Band41\_15MHz\_16QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



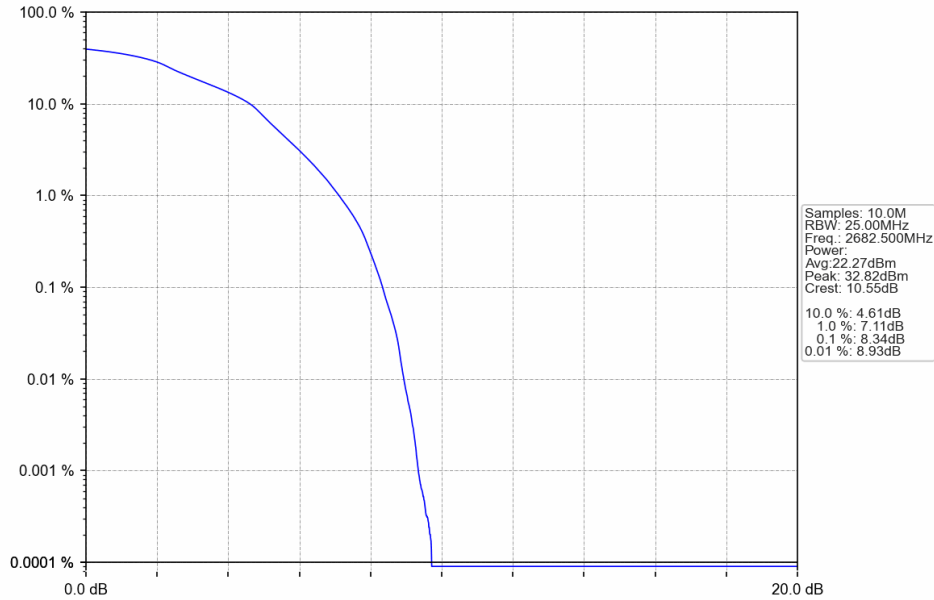
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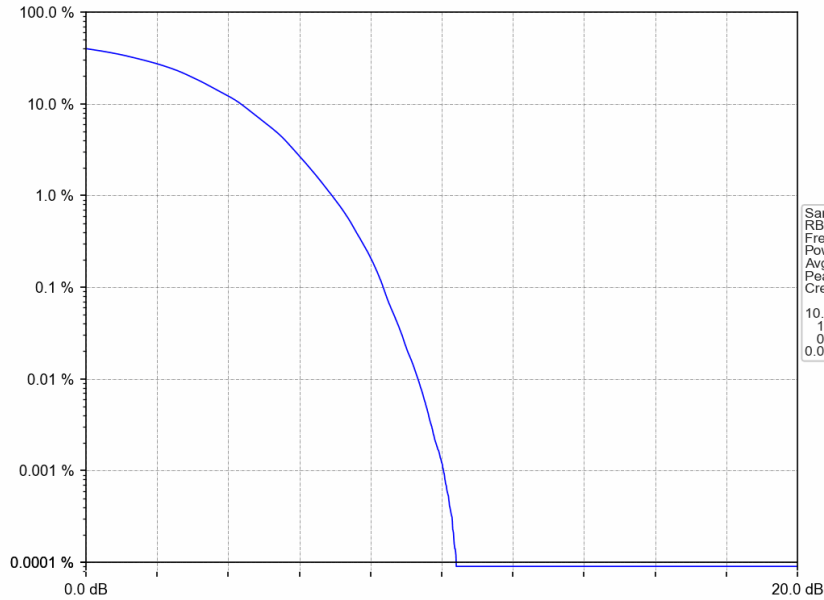
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Band41\_15MHz\_64QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2503.500MHz  
 Power:  
 Avg: 21.58dBm  
 Peak: 32.17dBm  
 Crest: 10.59dB



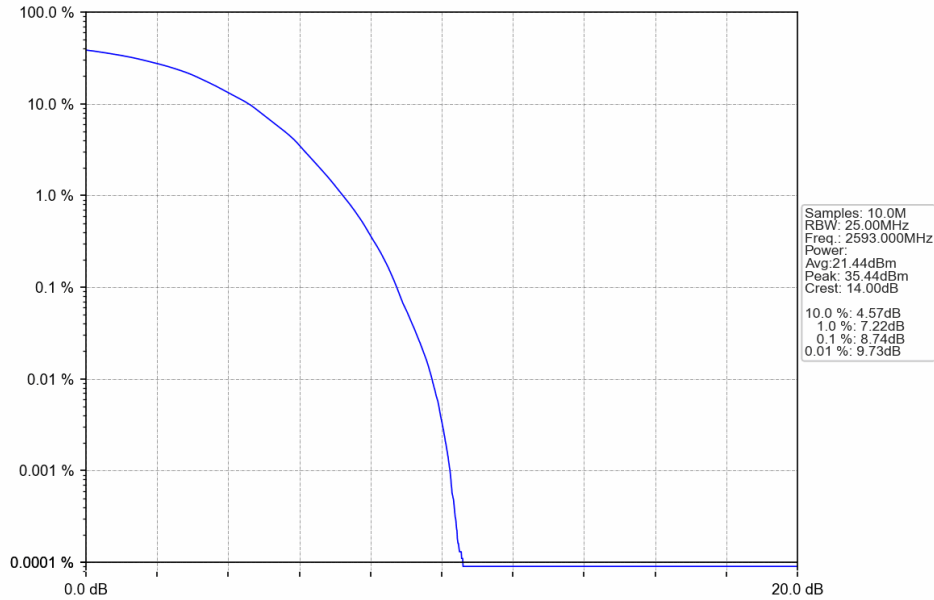
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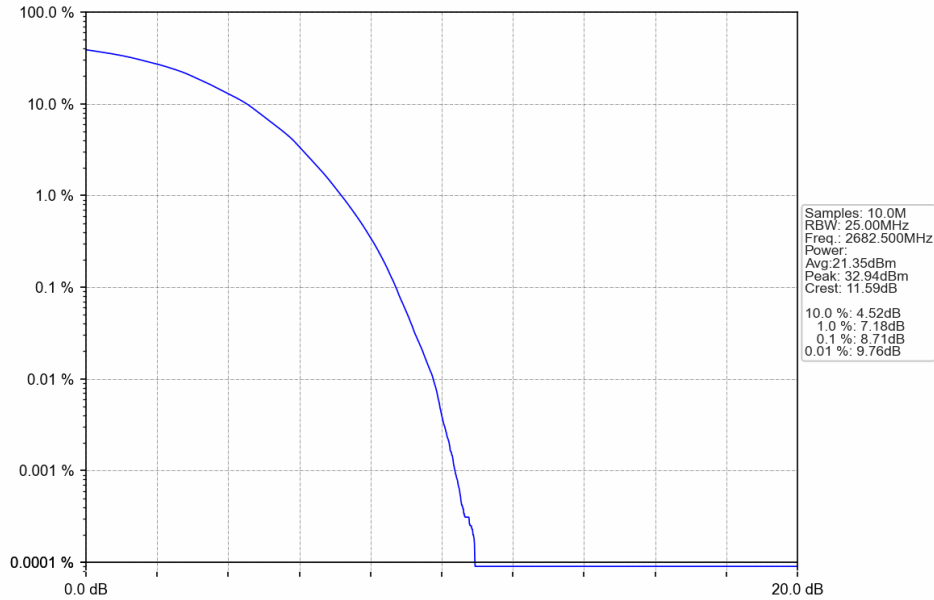
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Band41\_15MHz\_64QAM\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



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3.4 B41\_20MHz

3.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.46	<=13	Pass
	2593	100	0	7.16	<=13	Pass
	2680	100	0	6.99	<=13	Pass
16QAM	2506	100	0	8.17	<=13	Pass
	2593	100	0	8.09	<=13	Pass
	2680	100	0	7.98	<=13	Pass
64QAM	2506	100	0	8.66	<=13	Pass
	2593	100	0	8.79	<=13	Pass
	2680	100	0	8.50	<=13	Pass

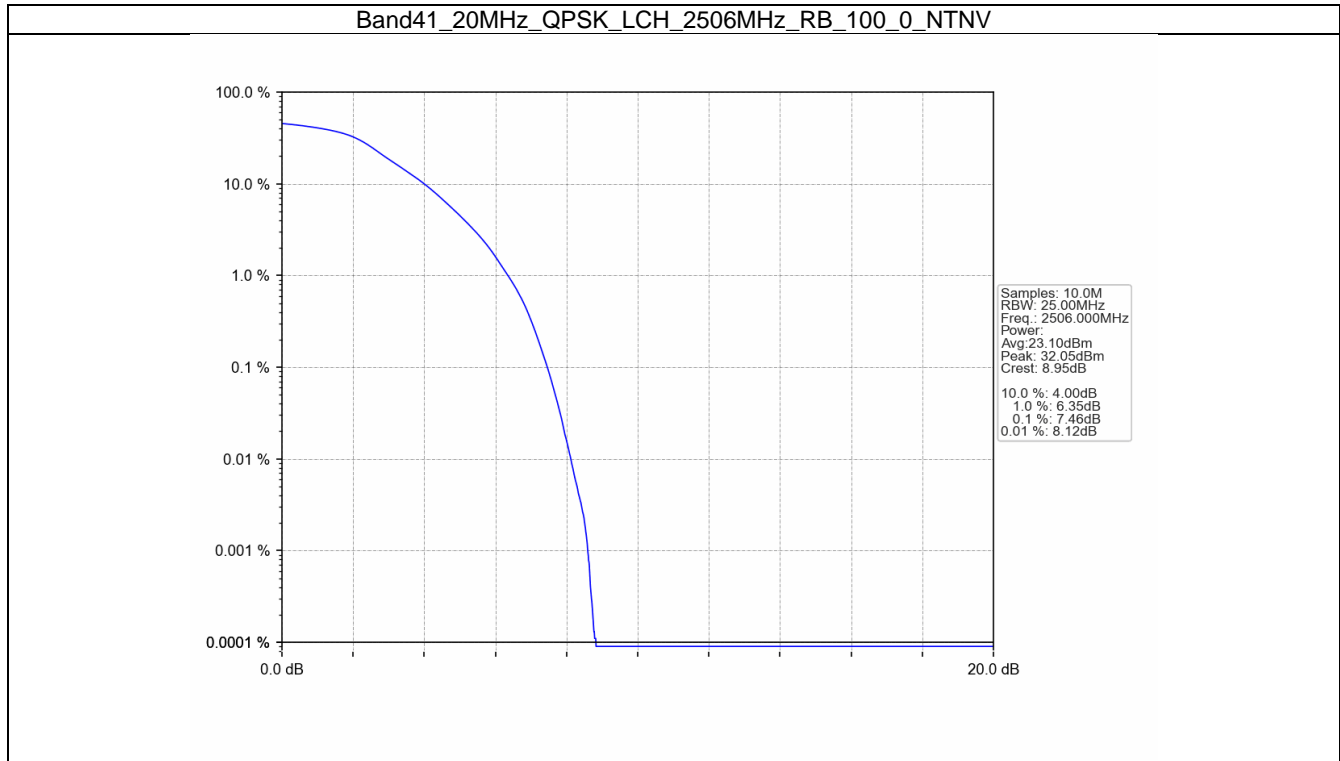


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3.4.2 Test Graph

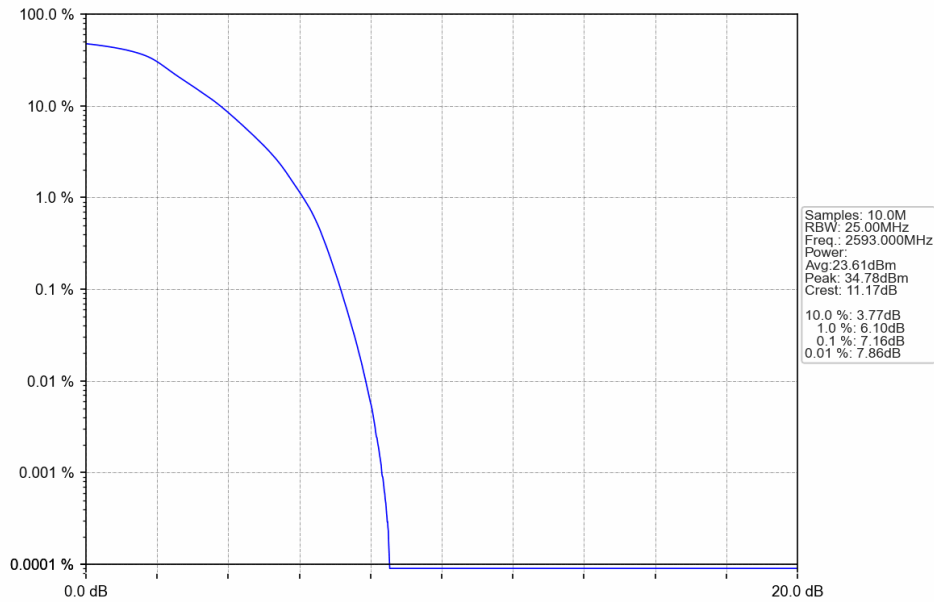


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Band41\_20MHz\_QPSK\_MCH\_2593MHz\_RB\_100\_0\_NTNV



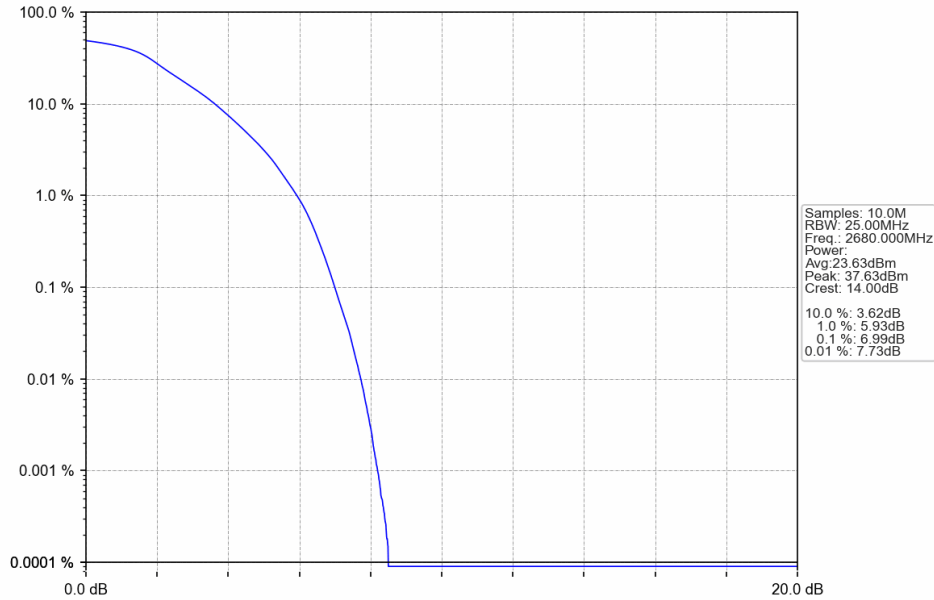
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Band41\_20MHz\_QPSK\_HCH\_2680MHz\_RB\_100\_0\_NTNV



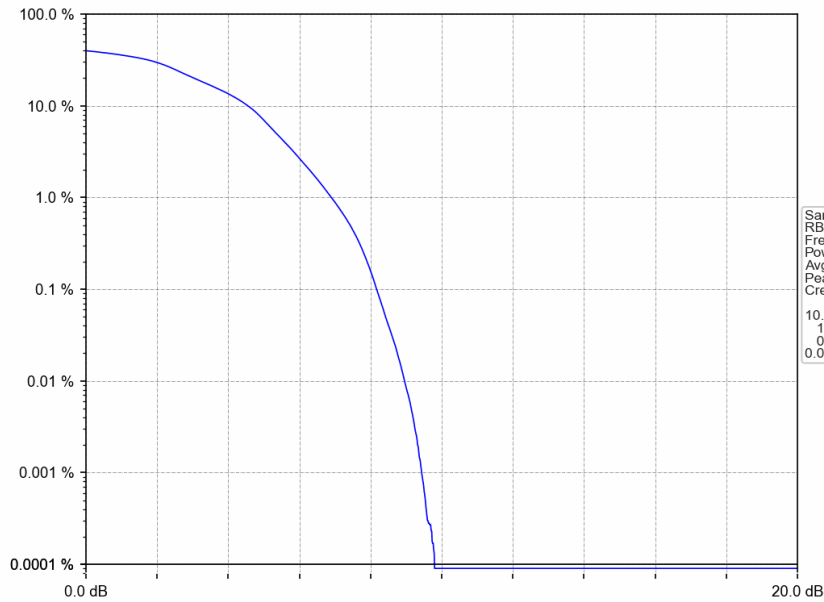
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Band41\_20MHz\_16QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2506.000MHz  
 Power:  
 Avg: 22.15dBm  
 Peak: 34.05dBm  
 Crest: 11.90dB



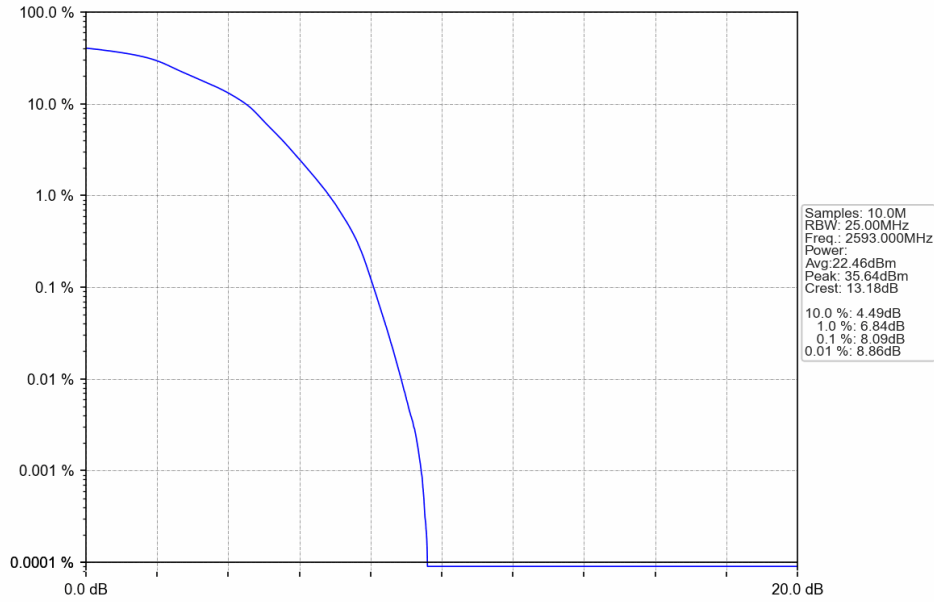
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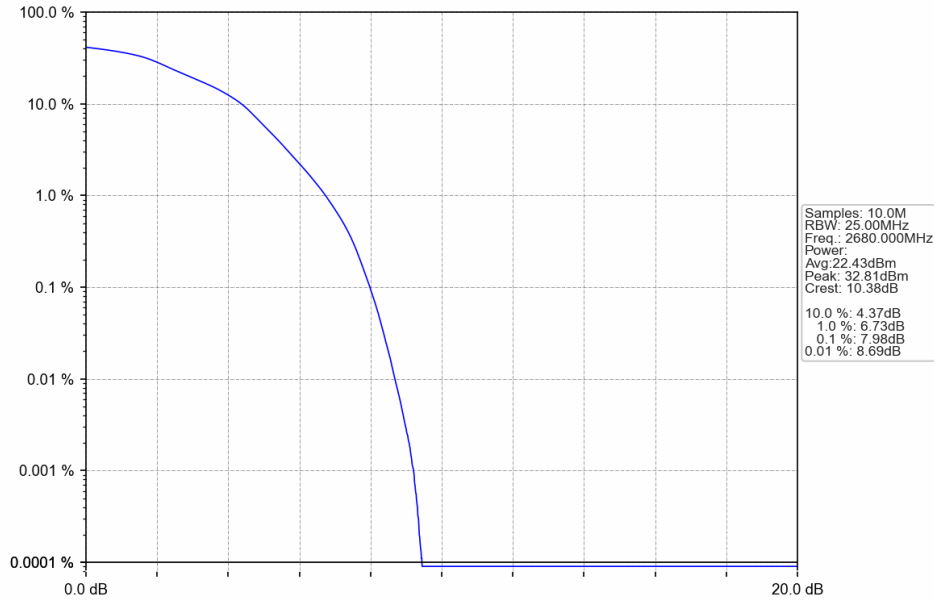
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Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



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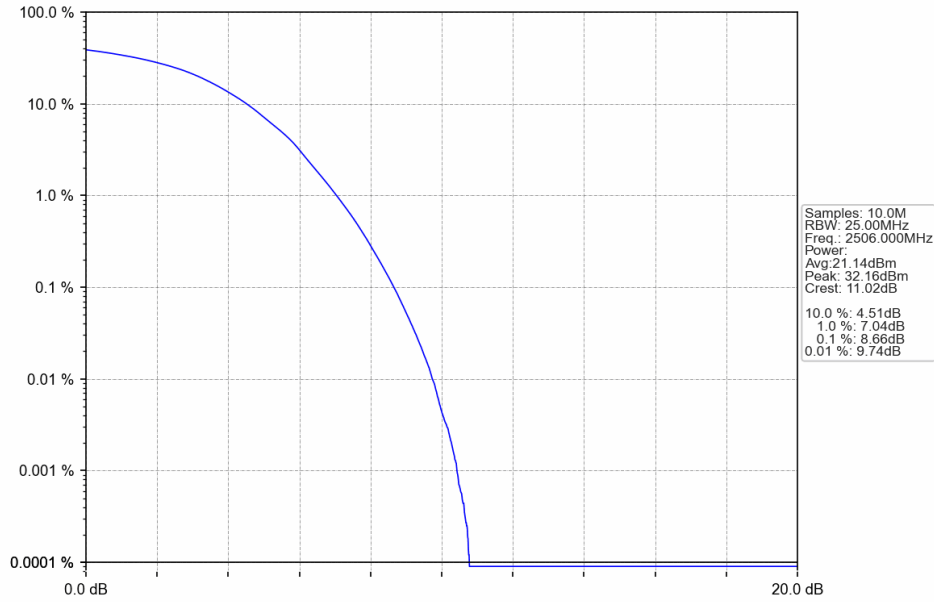
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Band41\_20MHz\_64QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV



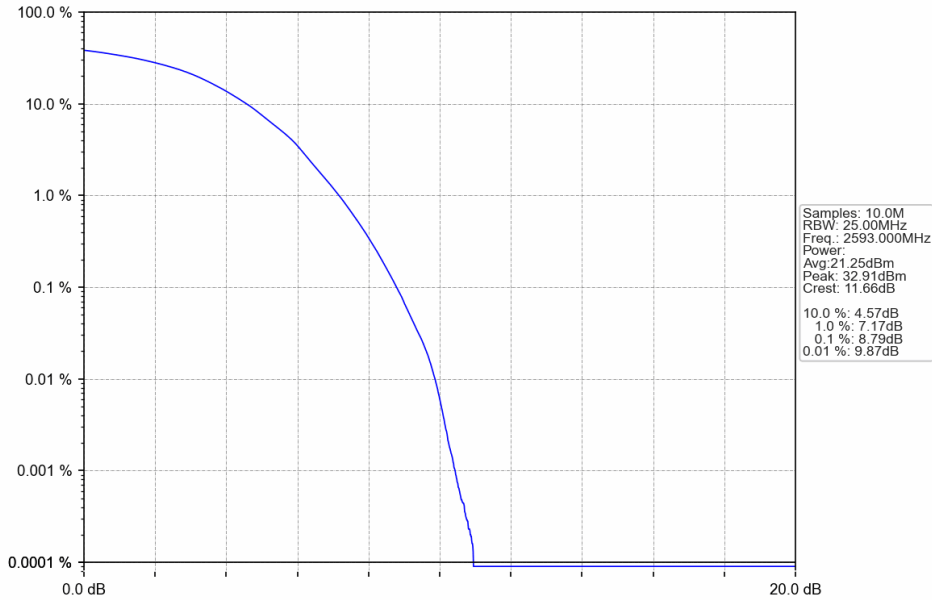
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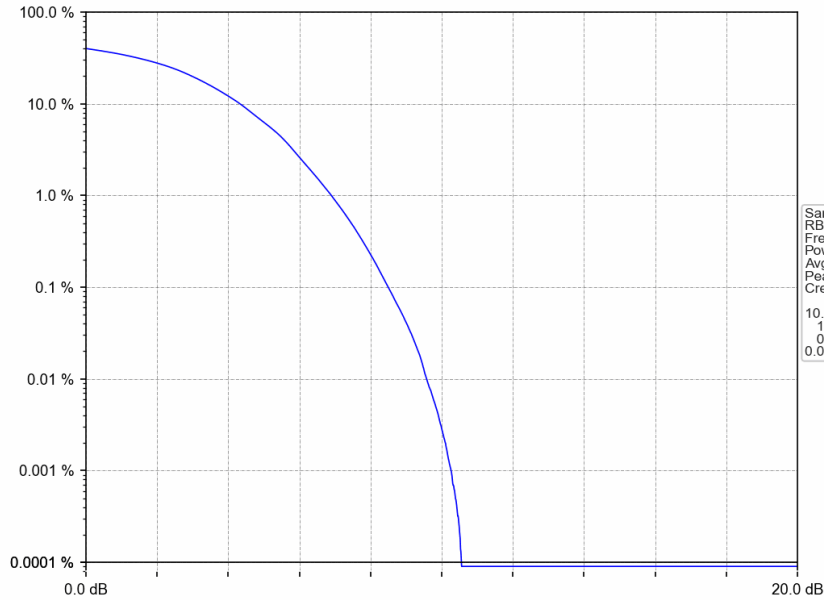
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Band41\_20MHz\_64QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2680.000MHz  
 Power:  
 Avg: 21.41dBm  
 Peak: 32.48dBm  
 Crest: 11.07dB

10.0 %: 4.33dB  
 1.0 %: 6.90dB  
 0.1 %: 8.50dB  
 0.01 %: 9.58dB



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## 4. Spurious Emission & Band Edges

### 4.1 B41\_5MHz

#### 4.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2593	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	2687.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	2498.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2593	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	2687.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	2498.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	2593	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	2687.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

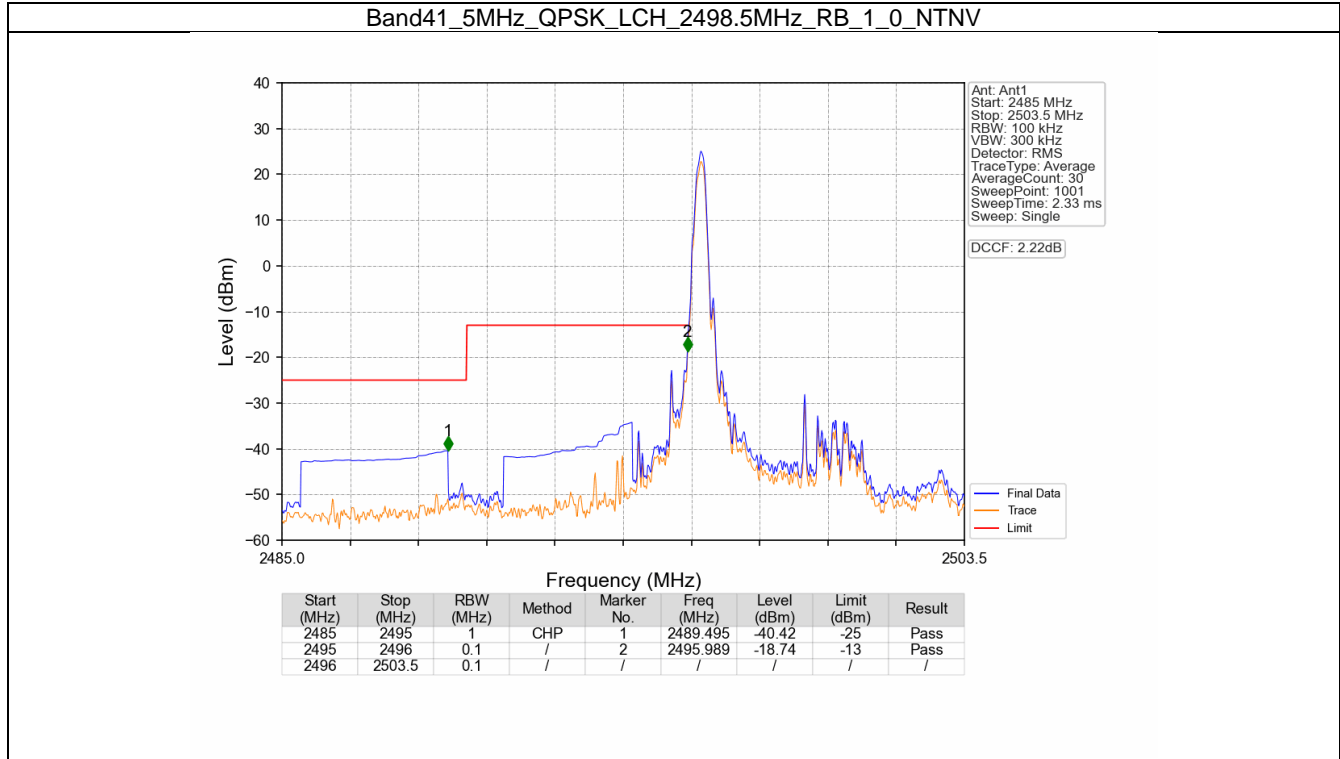


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4.1.2 Test Graph



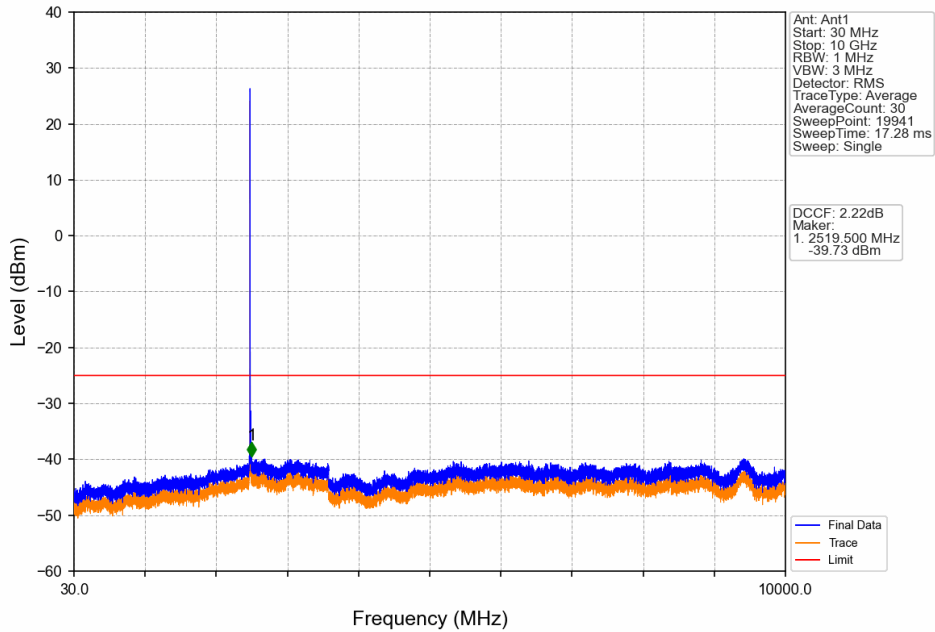
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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV

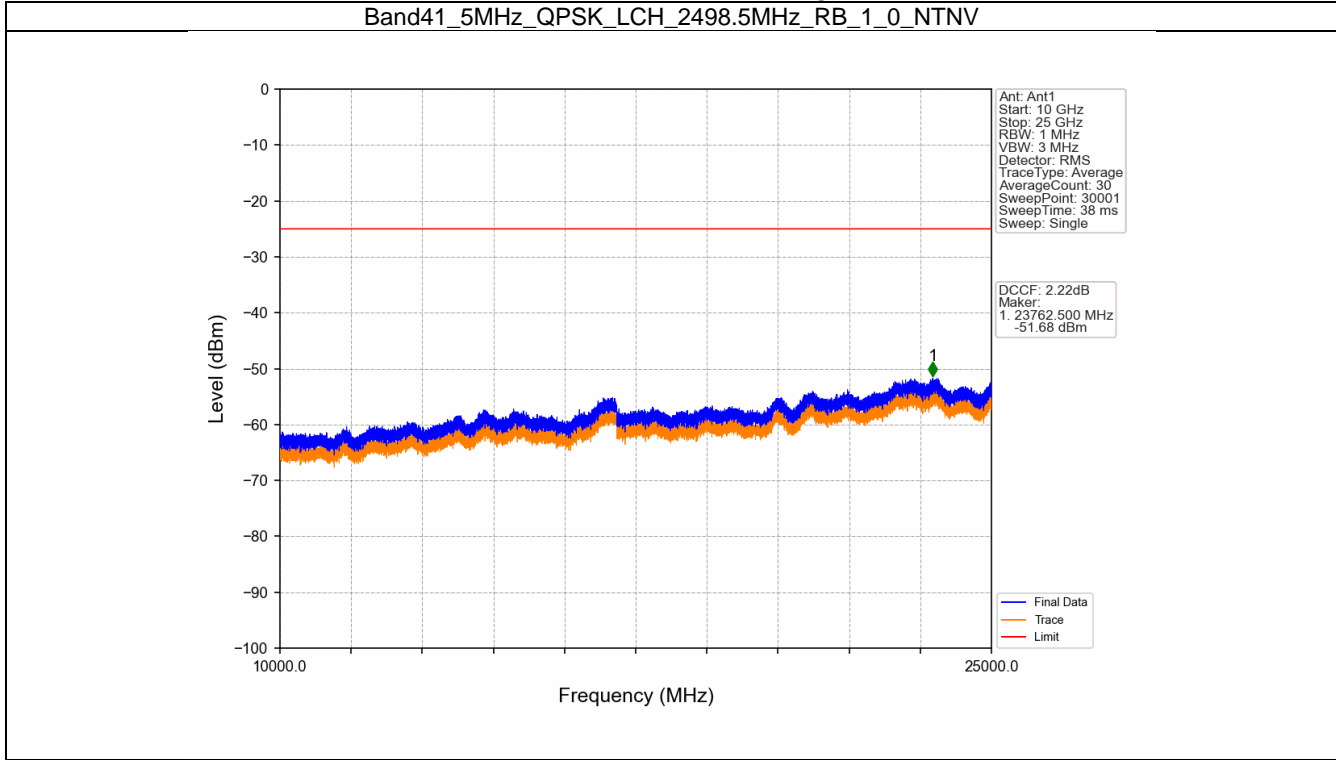


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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV

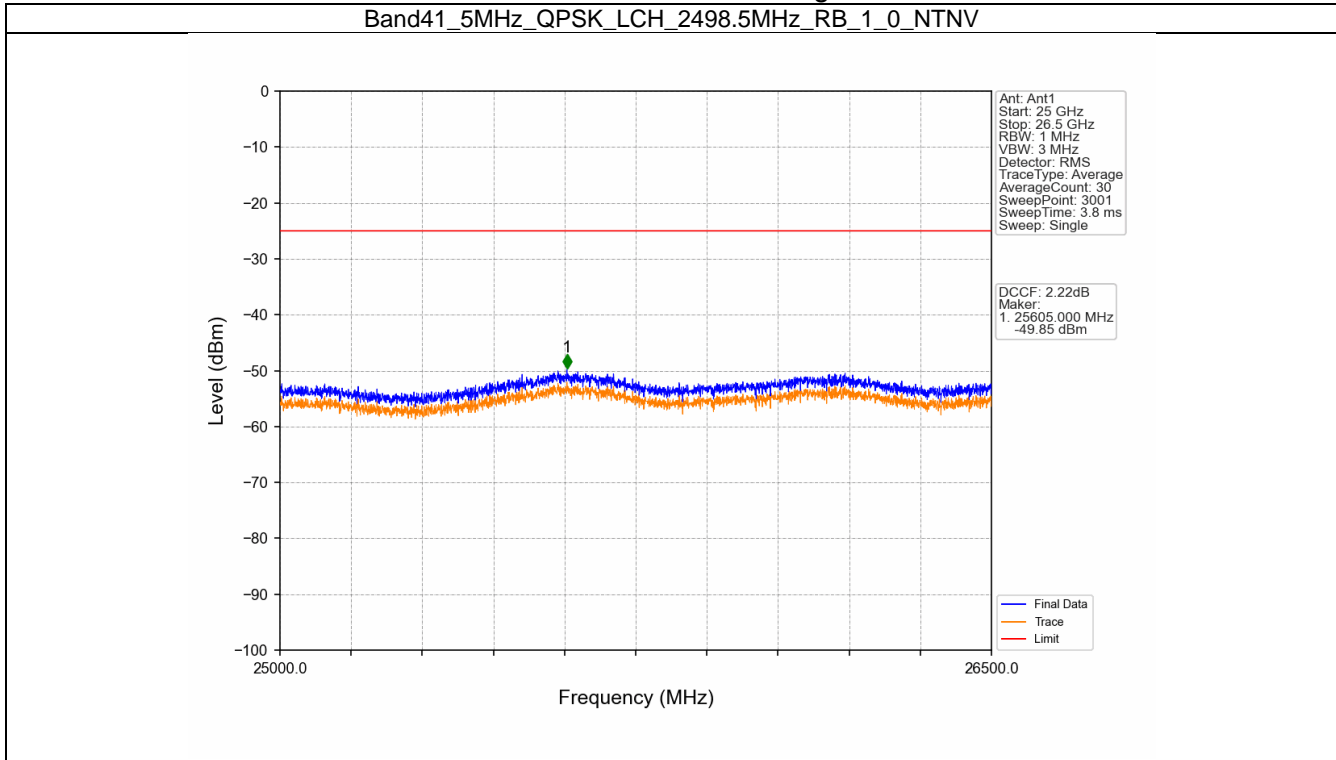


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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



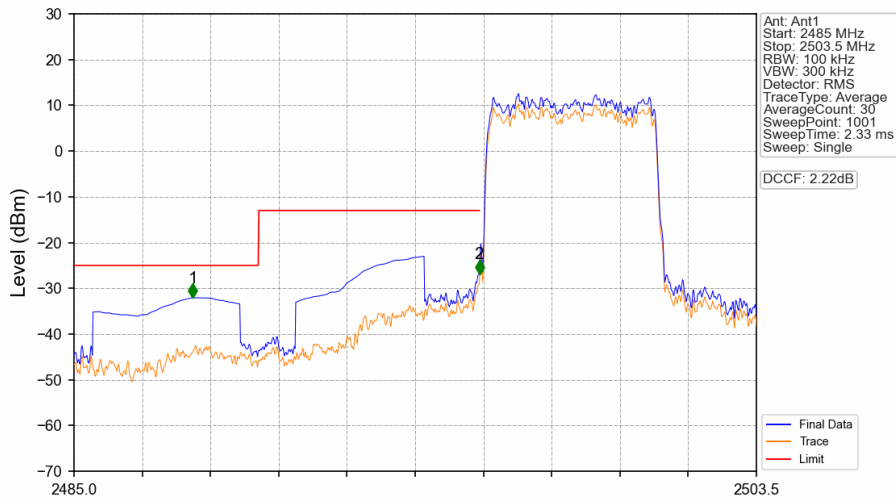
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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2488.219	-32.05	-25	Pass
2495	2496	0.1	/	2	2495.989	-26.89	-13	Pass
2496	2503.5	0.101	/	/	/	/	/	/



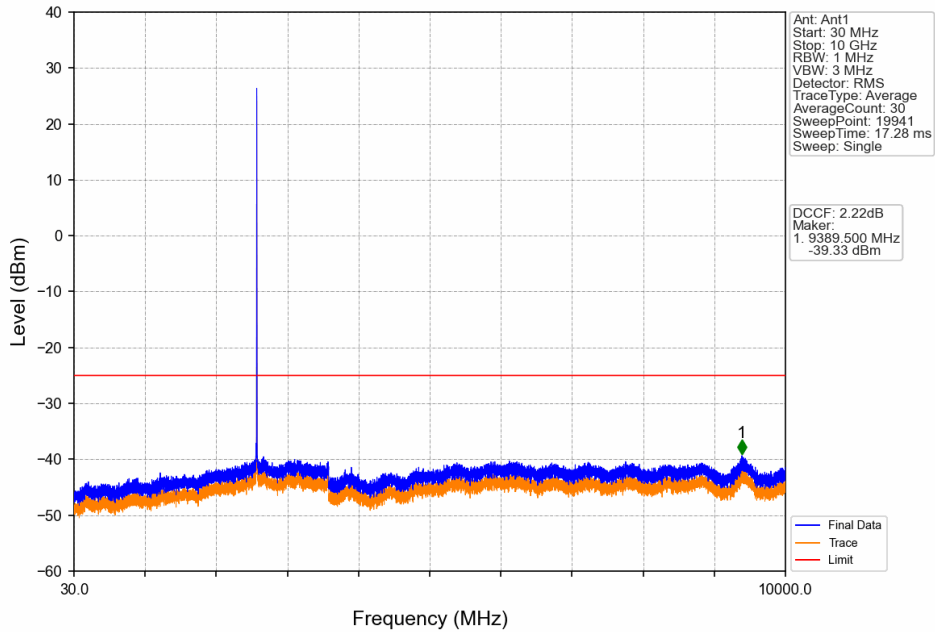
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Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



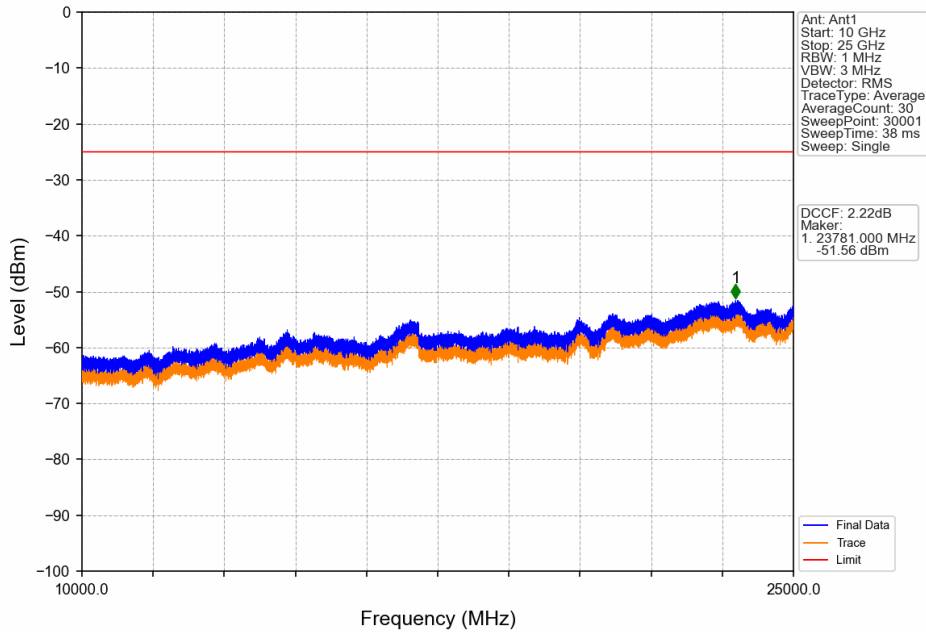
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Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV

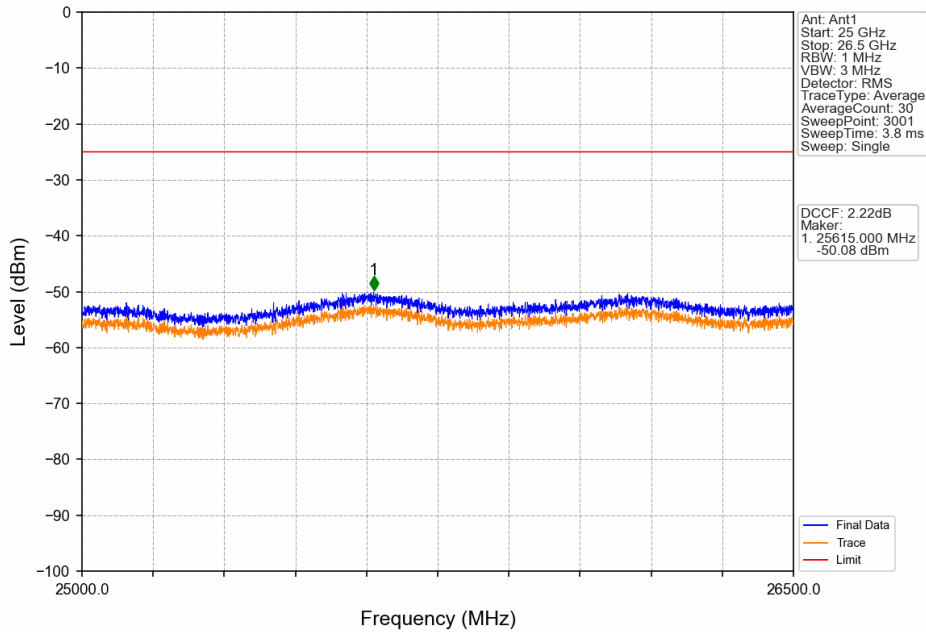


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Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



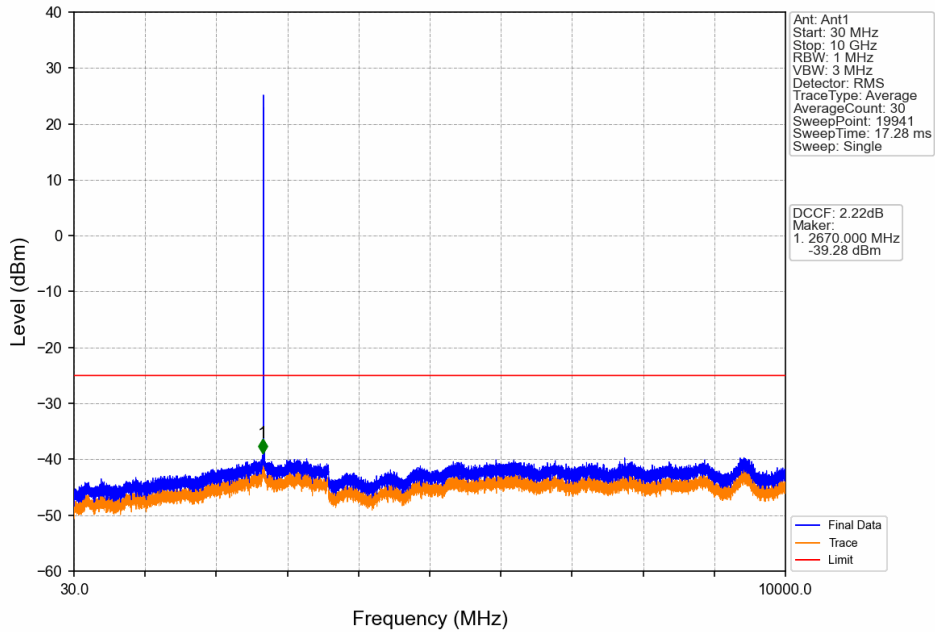
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_1\_0\_NTNV



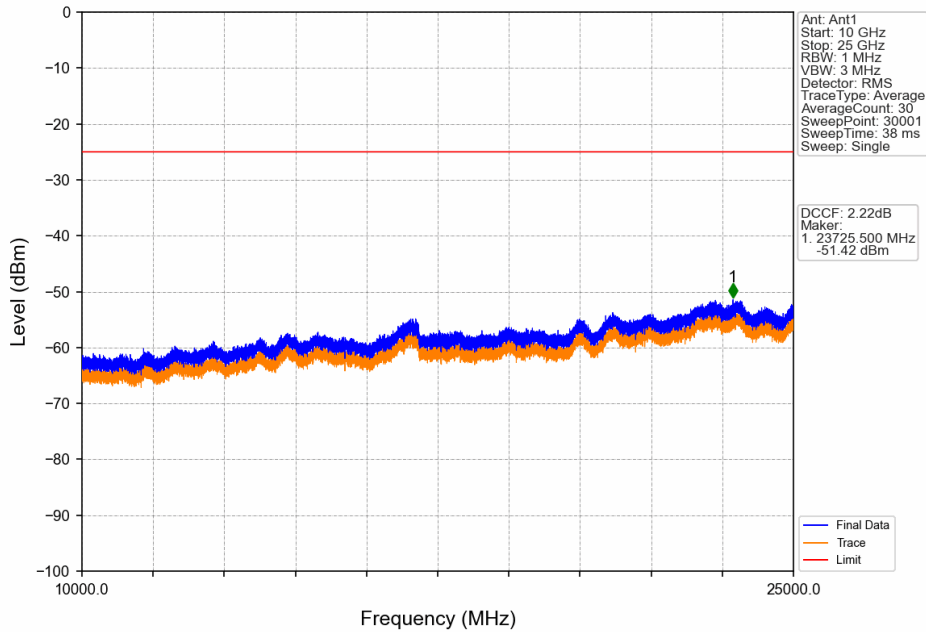
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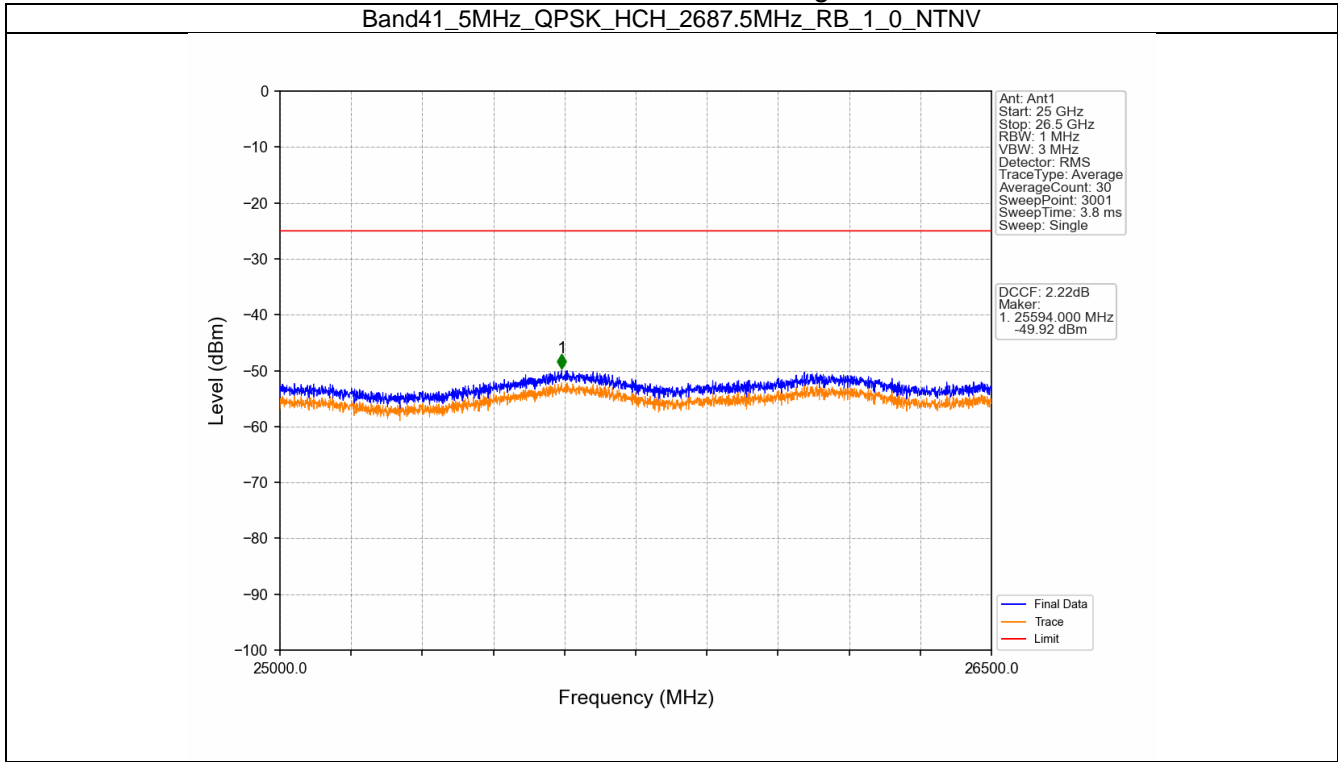
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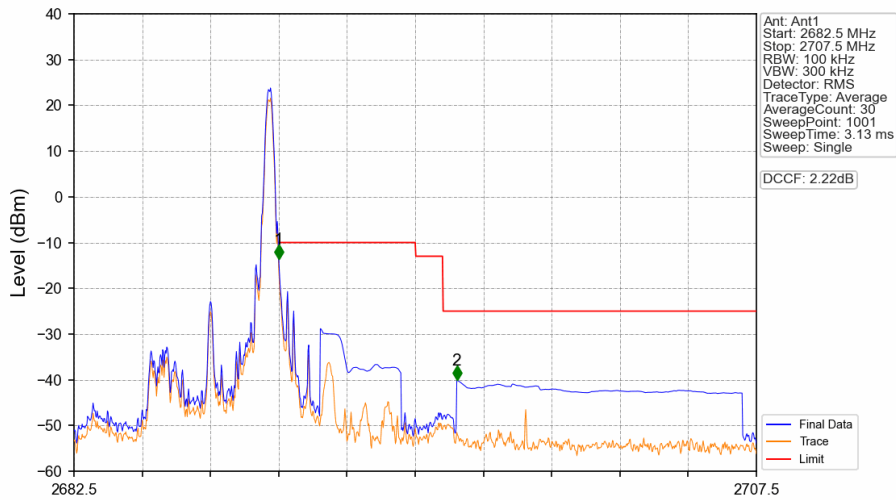


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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	1	2690.000	-13.57	-10	Pass
2690	2691	0.1	/	1	2690.000	-13.57	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-40.04	-25	Pass



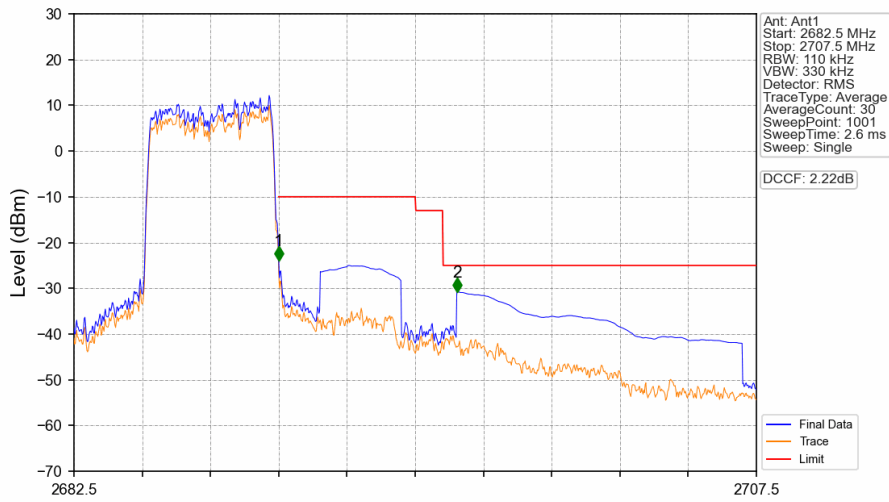
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.000	-23.95	-10	Pass
2691	2707.5	1	CHP	2	2696.550	-30.79	-25	Pass

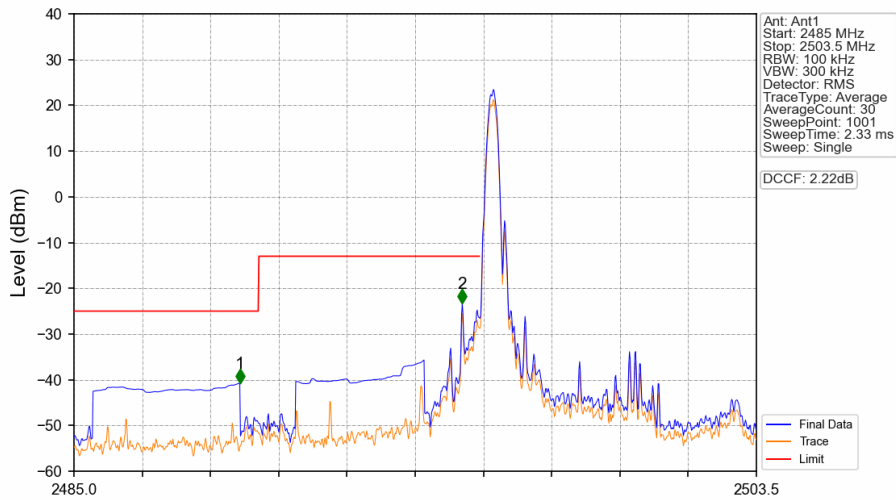


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Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.495	-40.77	-25	Pass
2495	2496	0.1	/	2	2495.526	-23.30	-13	Pass
2496	2503.5	0.1	/	/	/	/	/	/

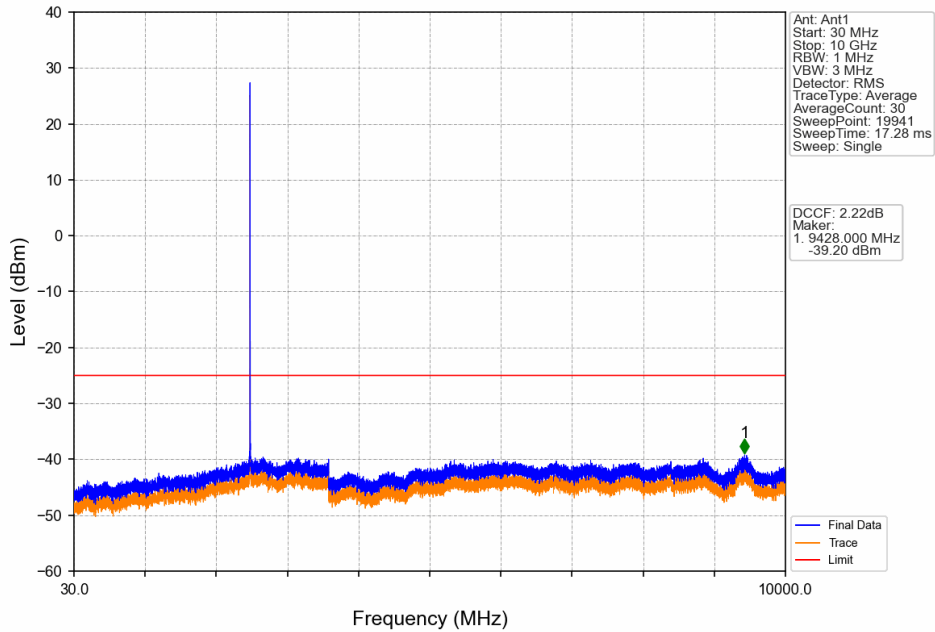


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Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV

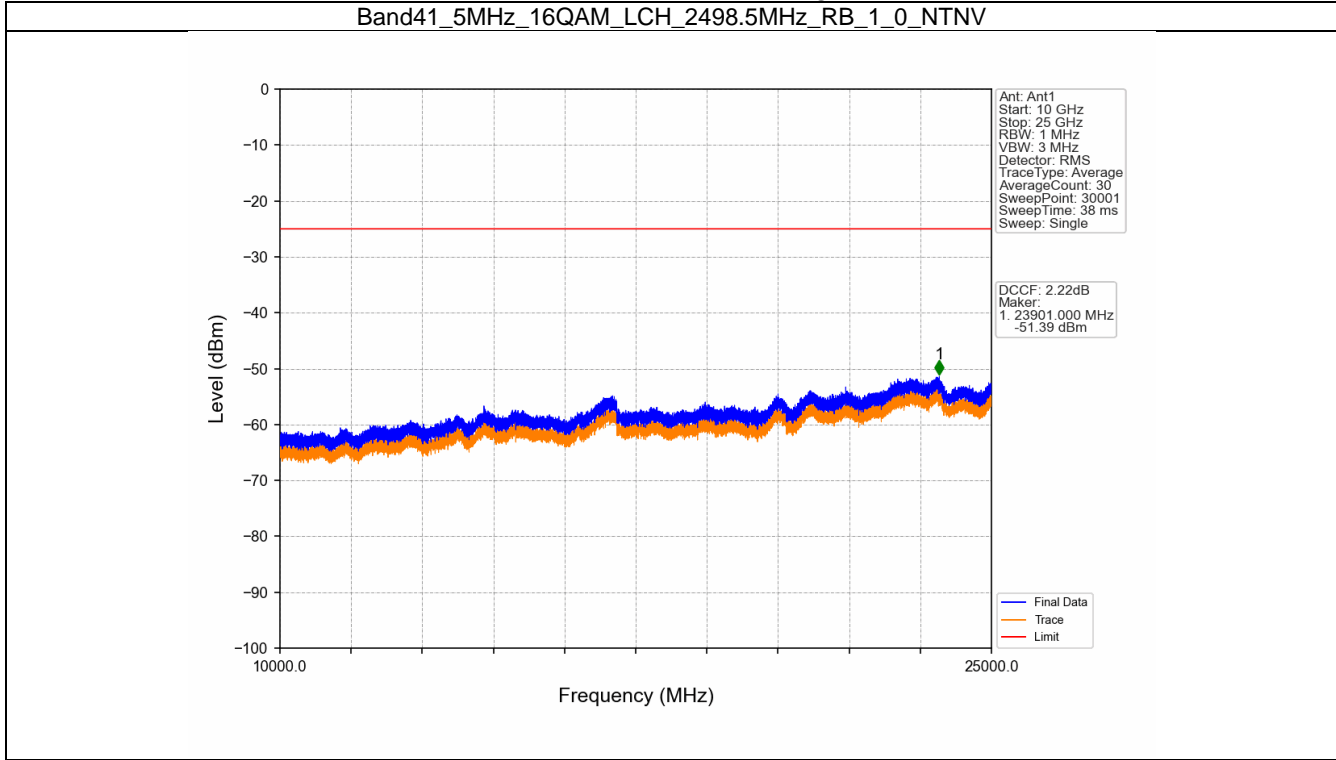


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Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



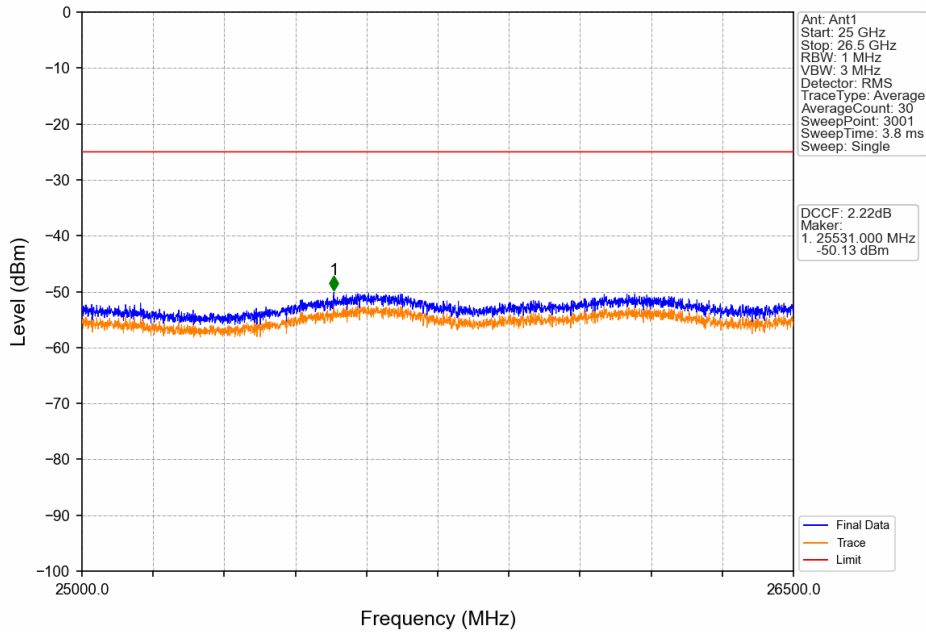
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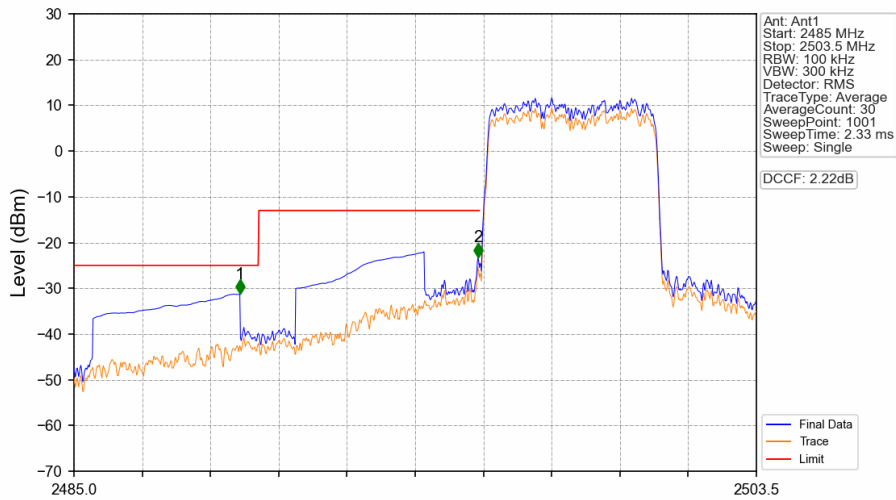


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Band41\_5MHz\_16QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.495	-31.27	-25	Pass
2495	2496	0.1	/	2	2495.952	-23.19	-13	Pass
2496	2503.5	0.101	/	/	/	/	/	/



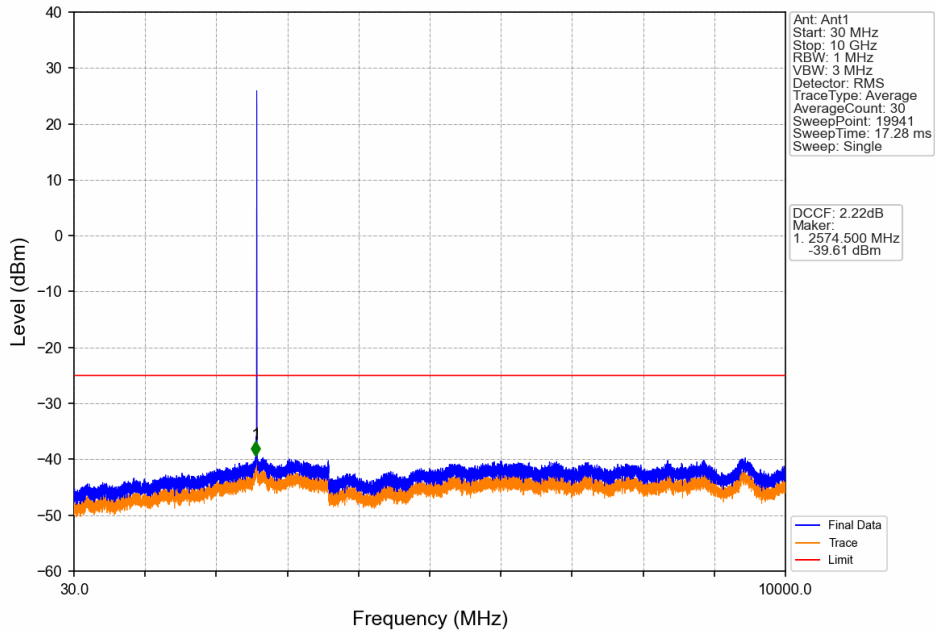
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV



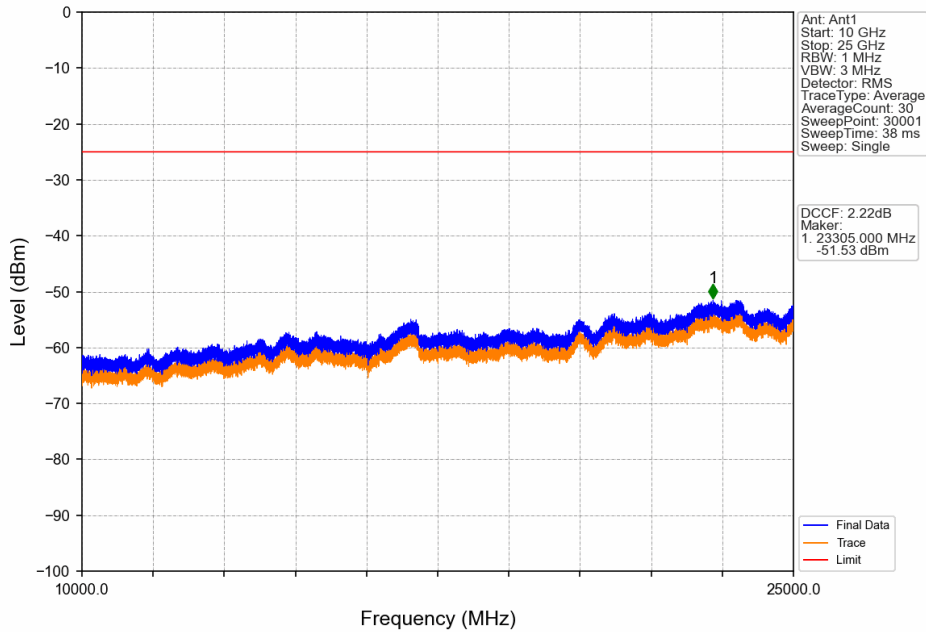
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV



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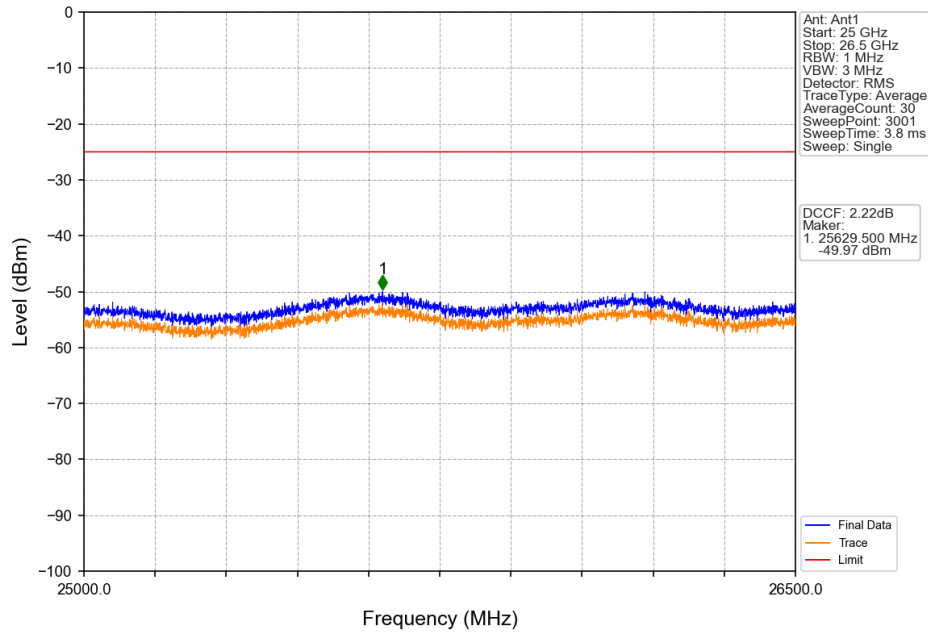
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Band41\_5MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV

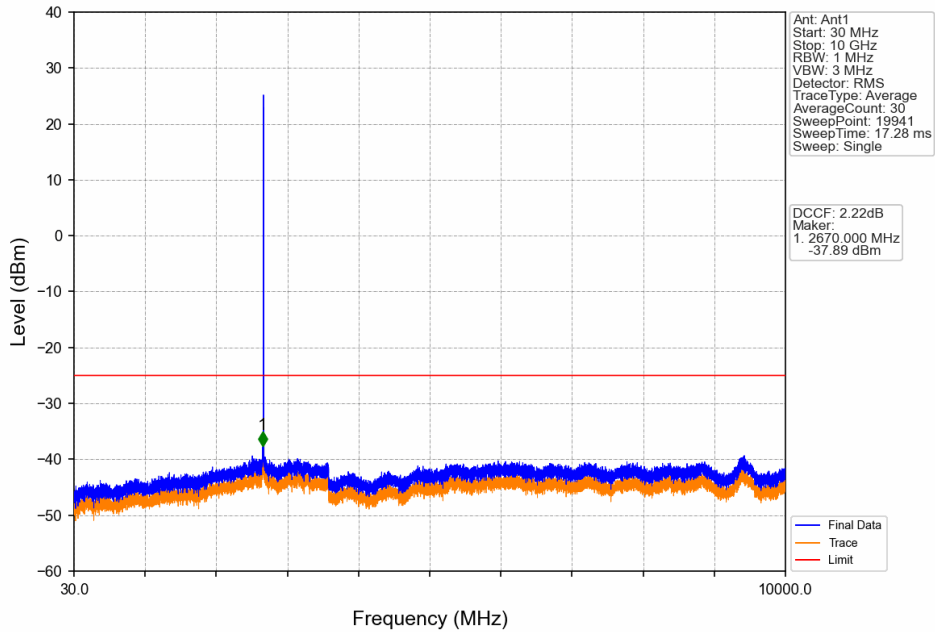


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Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_1\_0\_NTNV



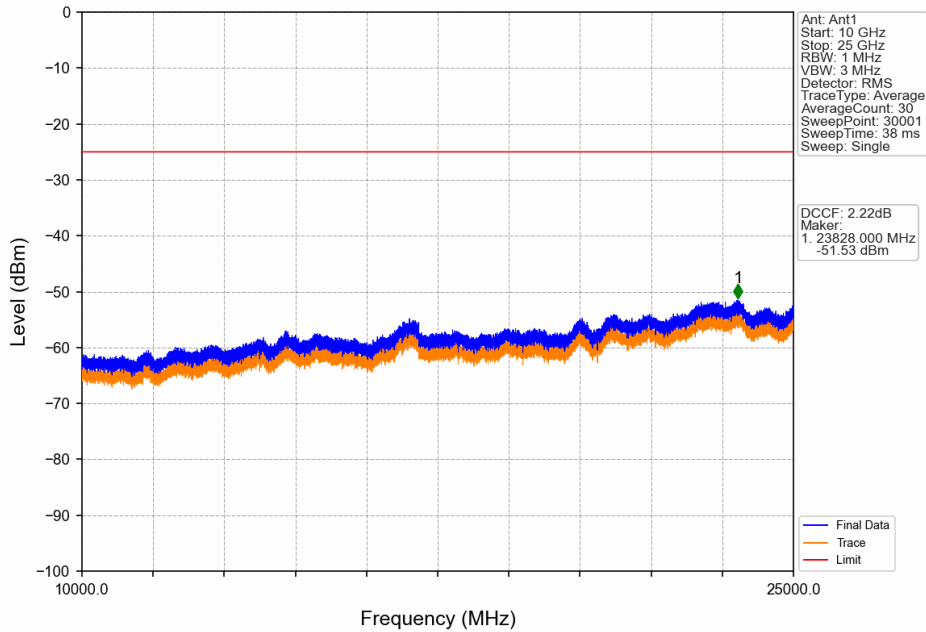
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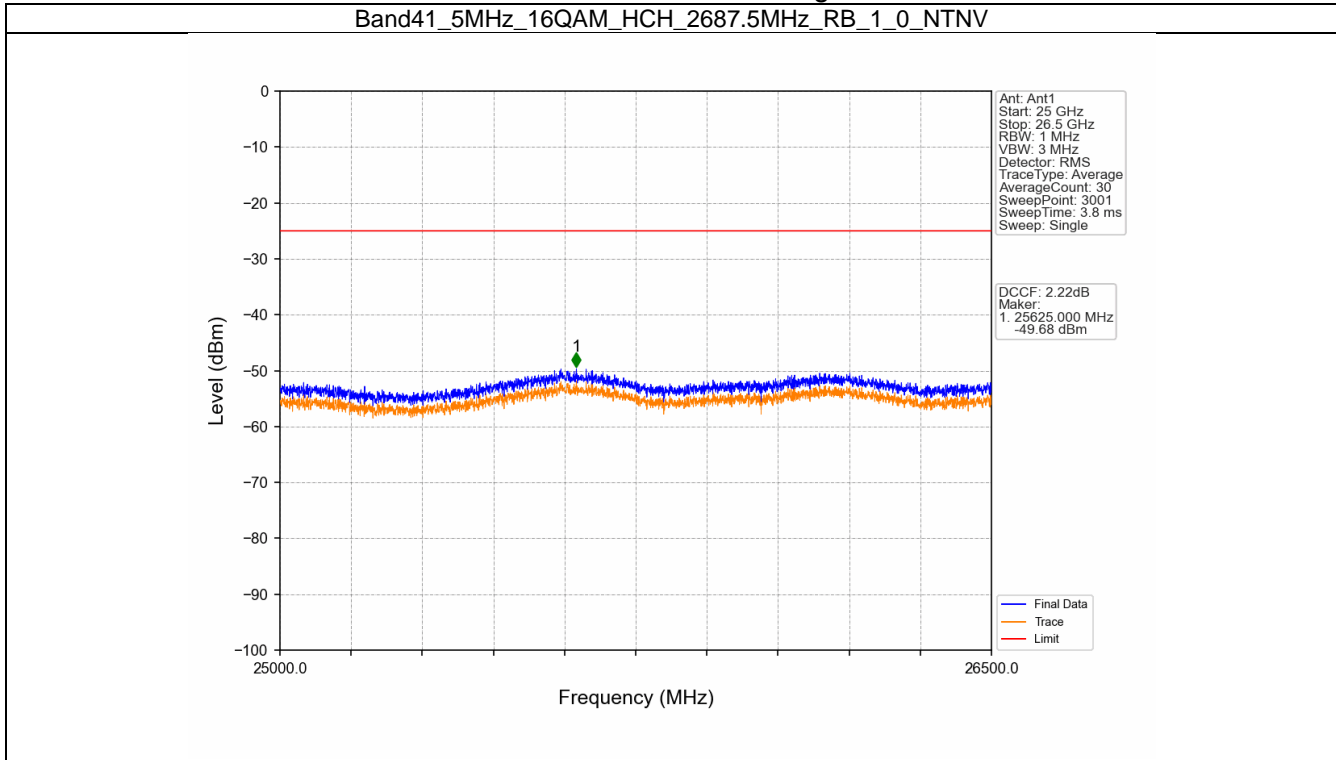


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Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_1\_0\_NTNV

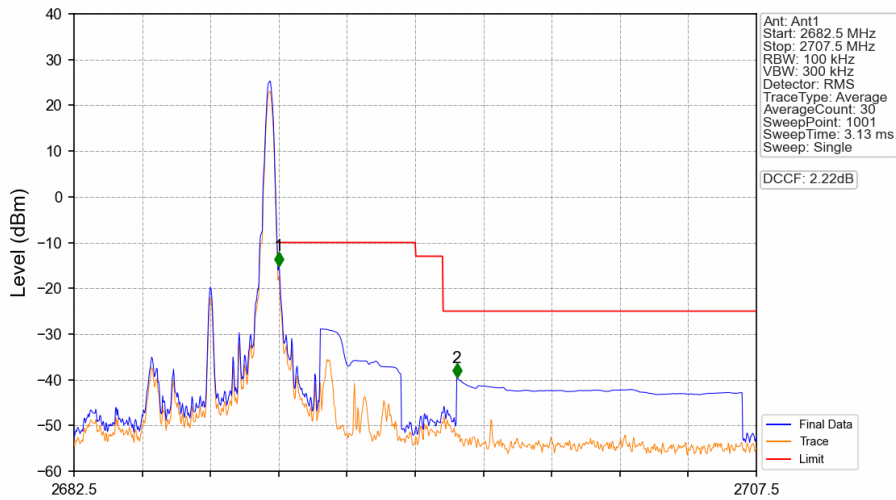


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Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	1	2690.000	-15.11	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-39.62	-25	Pass

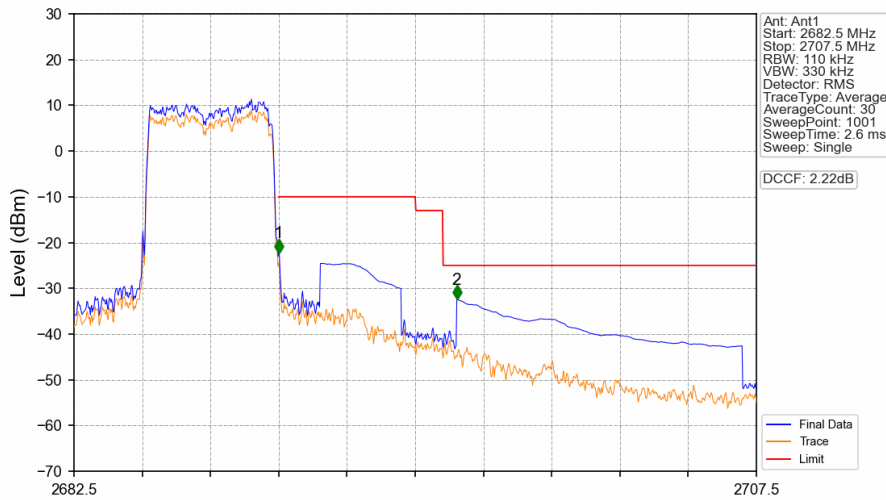


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Band41\_5MHz\_16QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.000	-22.32	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-32.48	-25	Pass

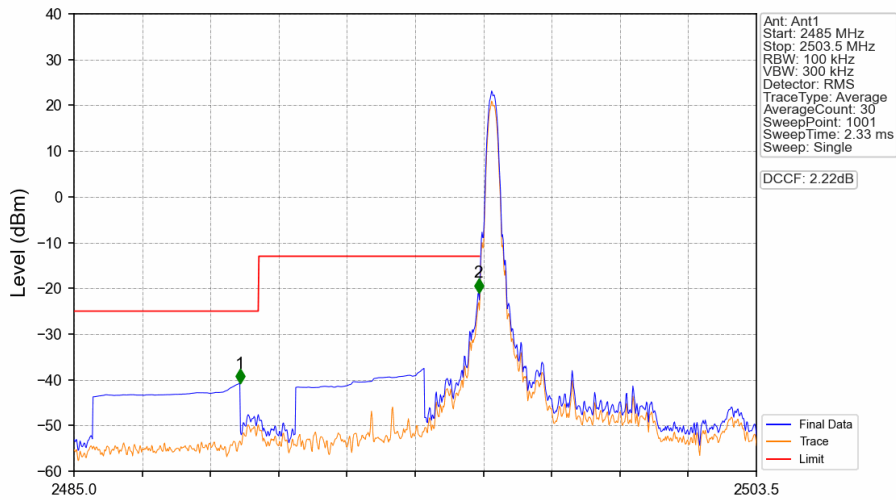


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Band41\_5MHz\_64QAM\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.495	-40.73	-25	Pass
2495	2496	0.1	/	2	2495.970	-20.93	-13	Pass
2496	2503.5	0.1	/	/	/	/	/	/



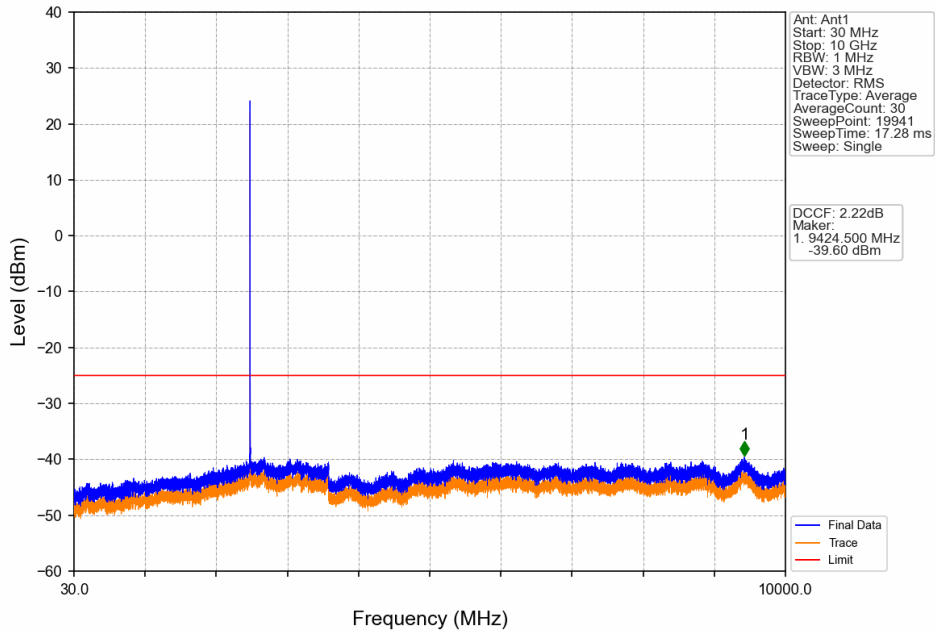
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Band41\_5MHz\_64QAM\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



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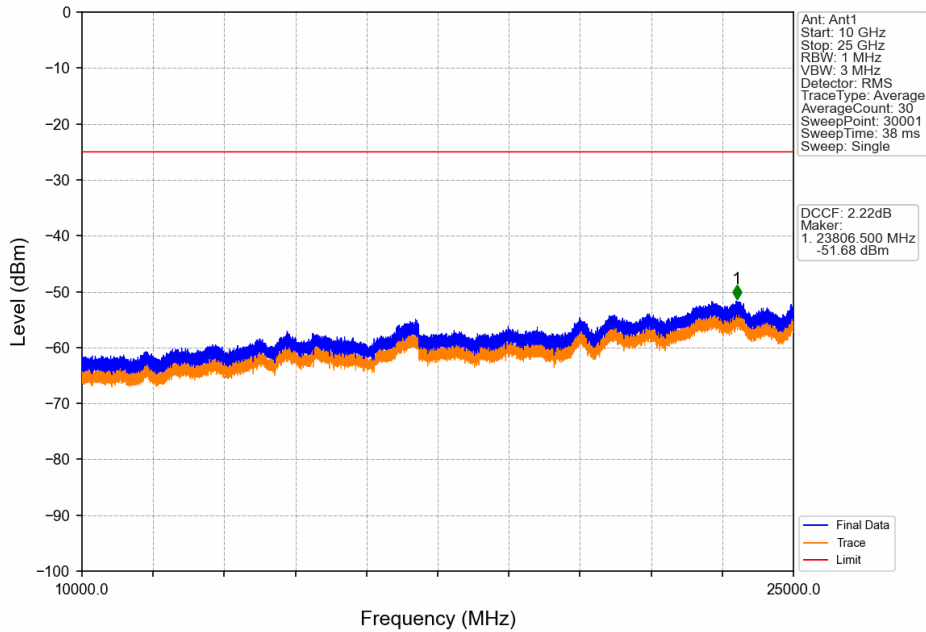
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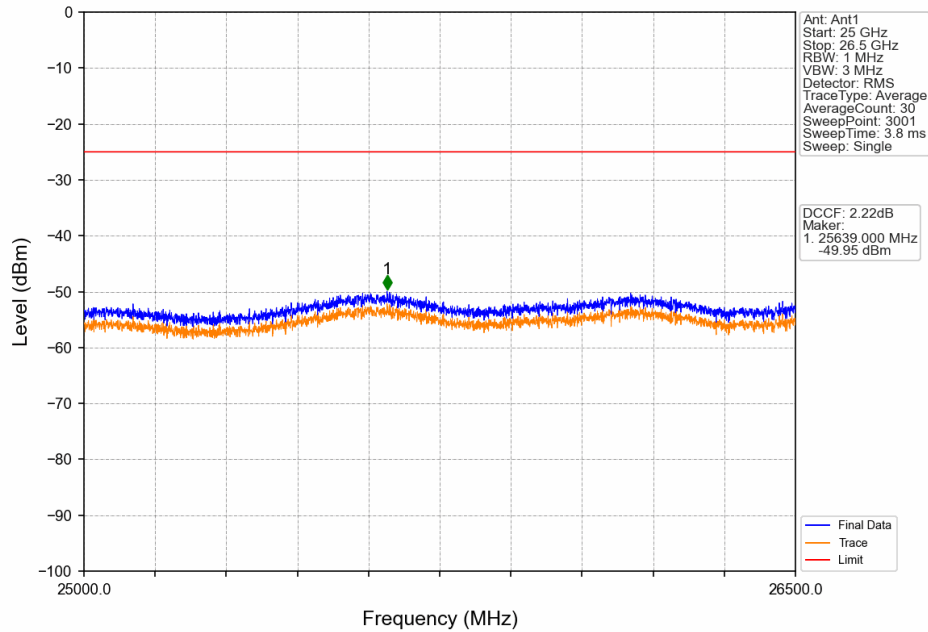
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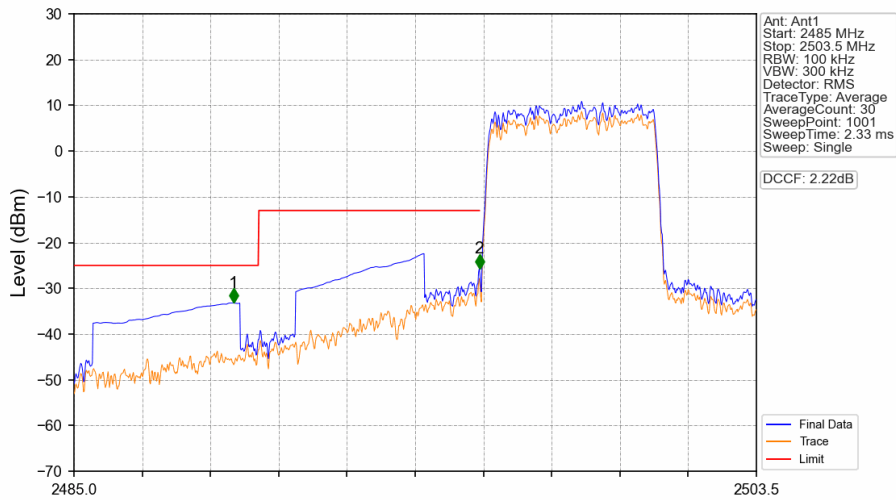


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Band41\_5MHz\_64QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2489.329	-33.22	-25	Pass
2495	2496	0.1	/	2	2495.989	-25.65	-13	Pass
2496	2503.5	0.101	/	/	/	/	/	/

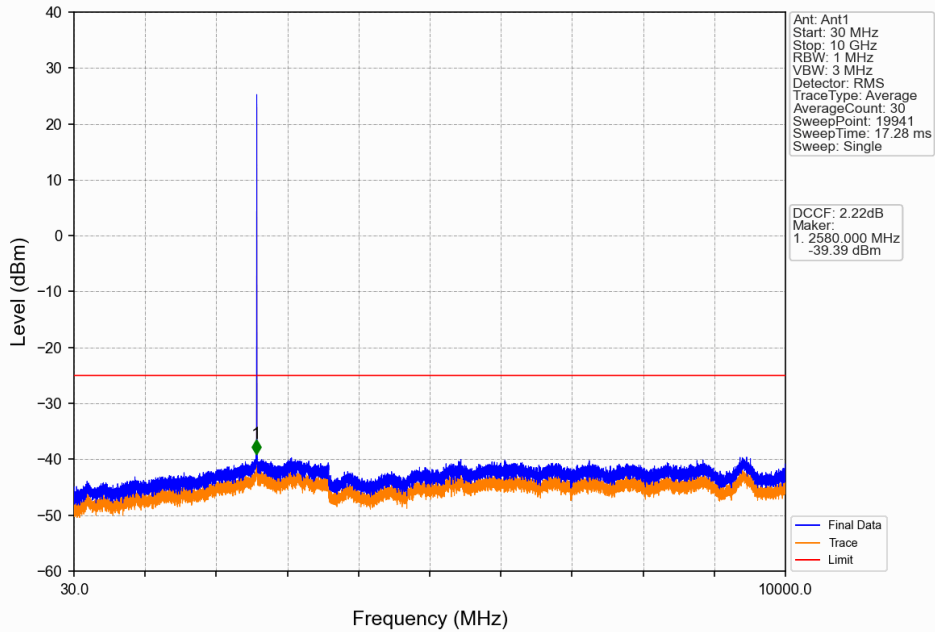


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Band41\_5MHz\_64QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV



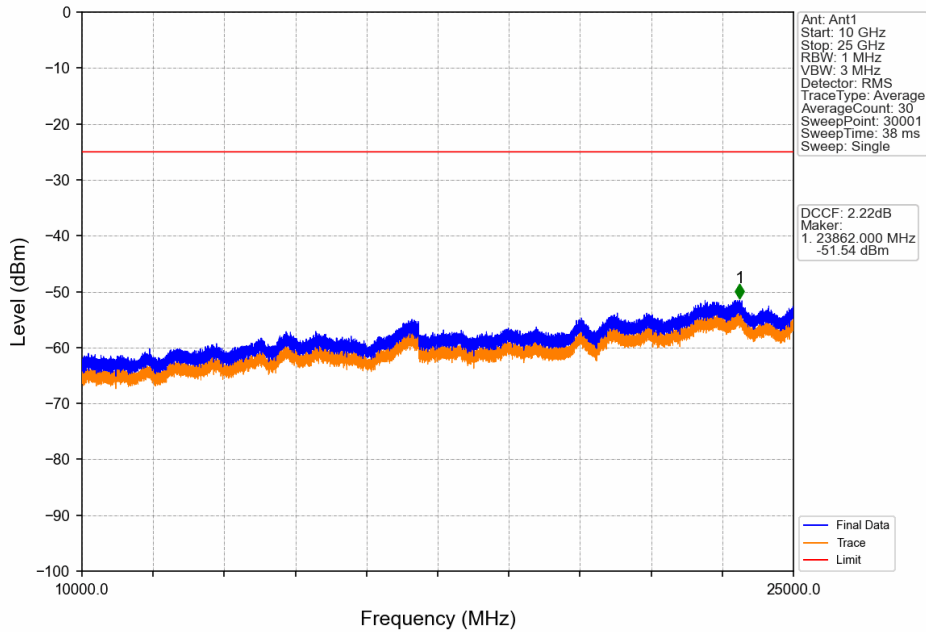
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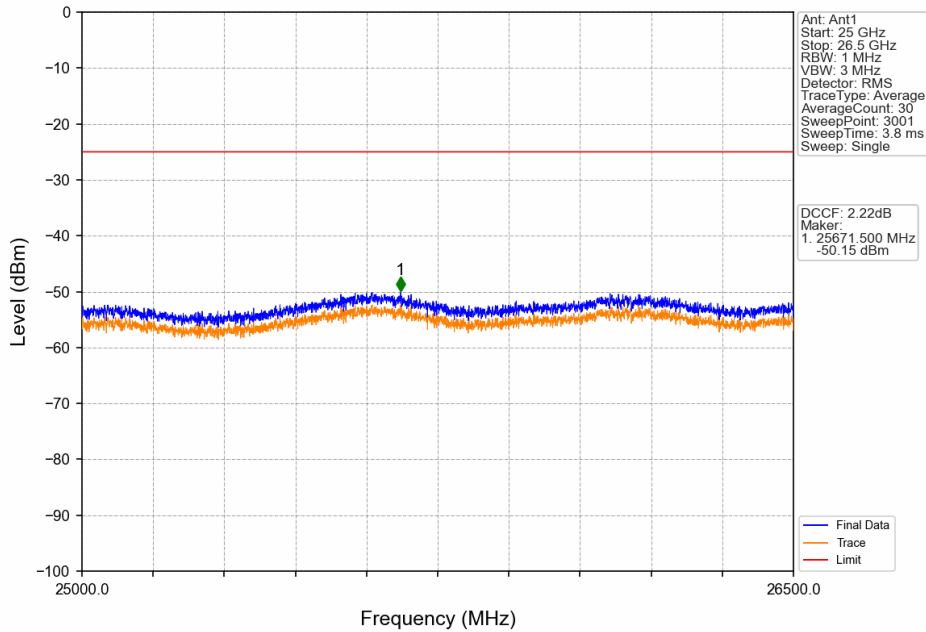
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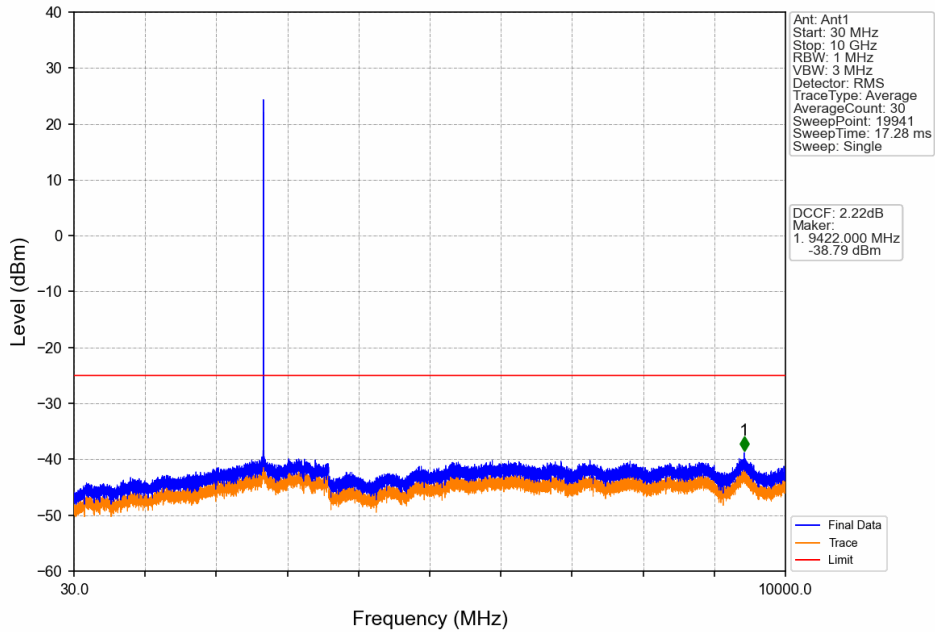
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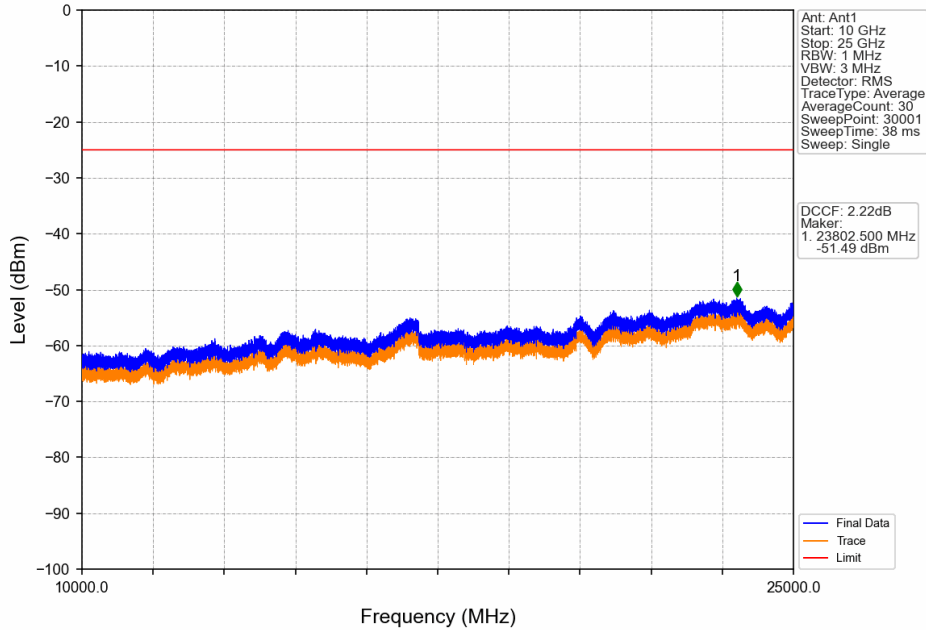
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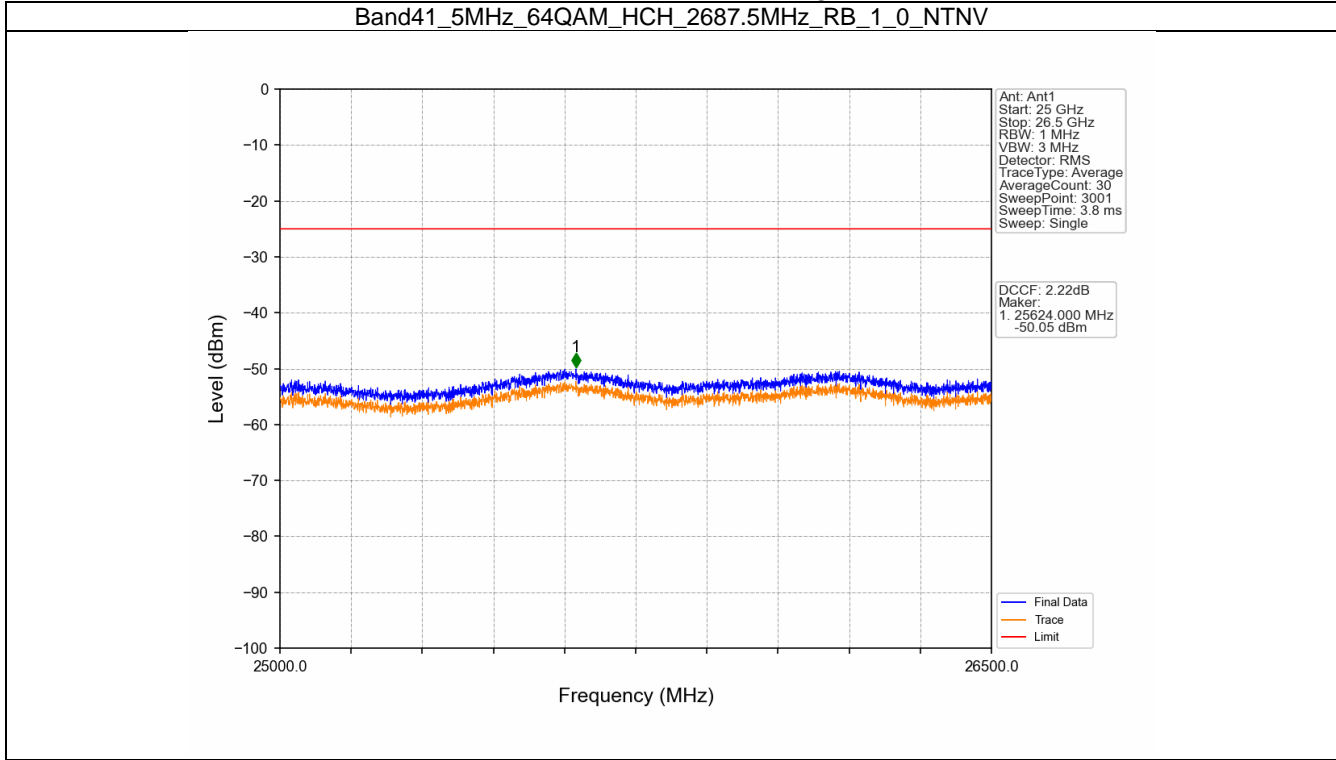
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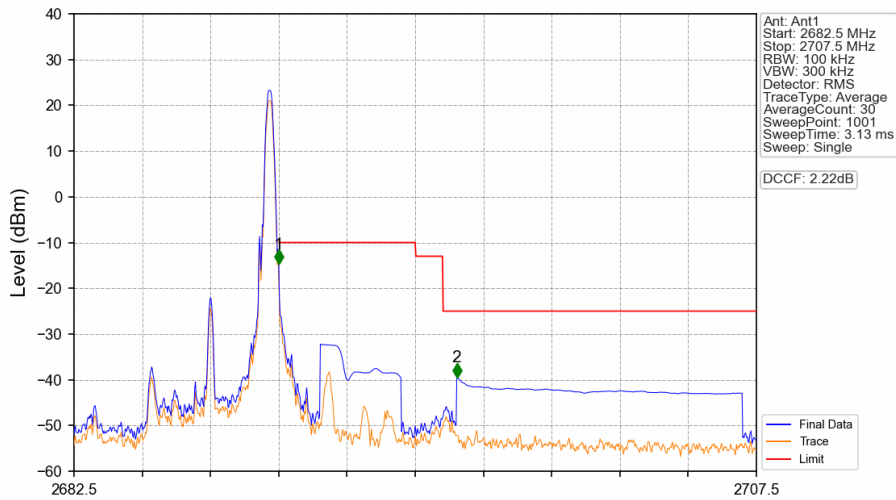


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Band41\_5MHz\_64QAM\_HCH\_2687.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	1	2690.000	-14.71	-10	Pass
2691	2707.5	1	CHP	2	2696.525	-39.45	-25	Pass

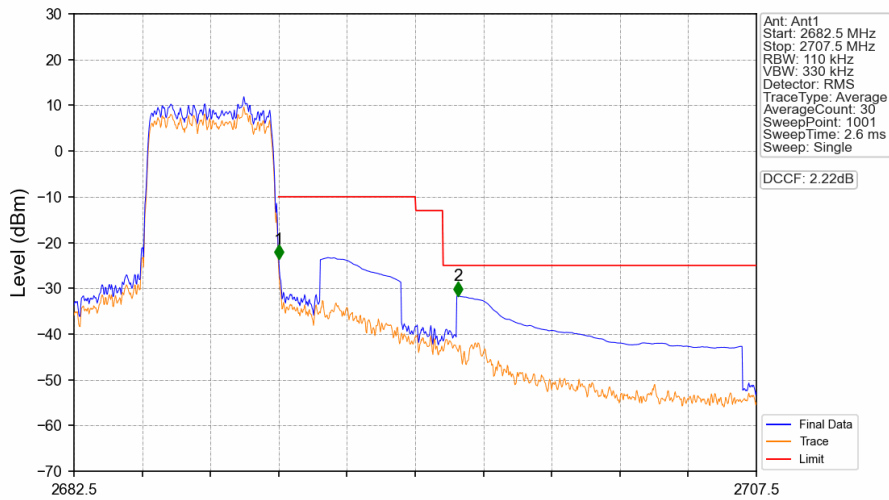


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Band41\_5MHz\_64QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.11	/	/	/	/	/	/
2690	2691	0.11	/	1	2690.000	-23.57	-10	Pass
2691	2707.5	1	CHP	2	2696.575	-31.67	-25	Pass



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4.2 B41\_10MHz

4.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

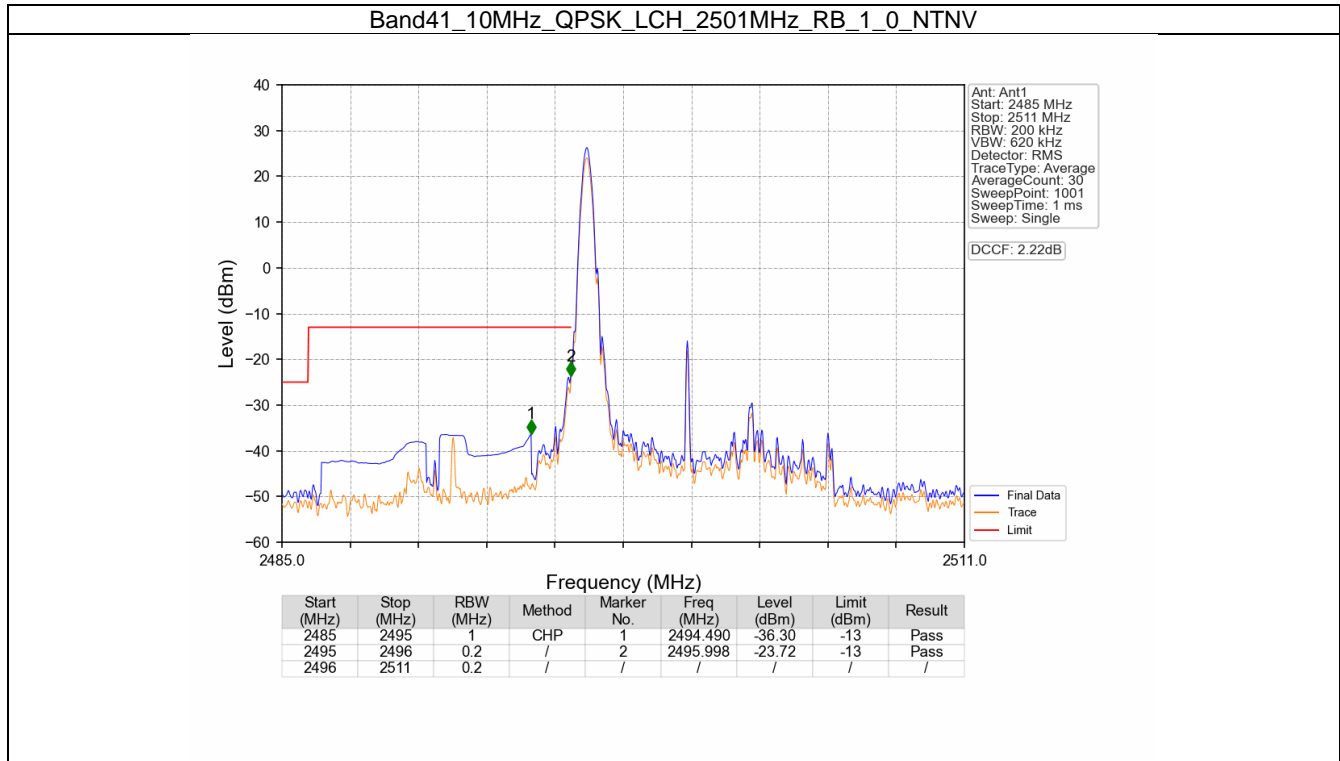


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4.2.2 Test Graph



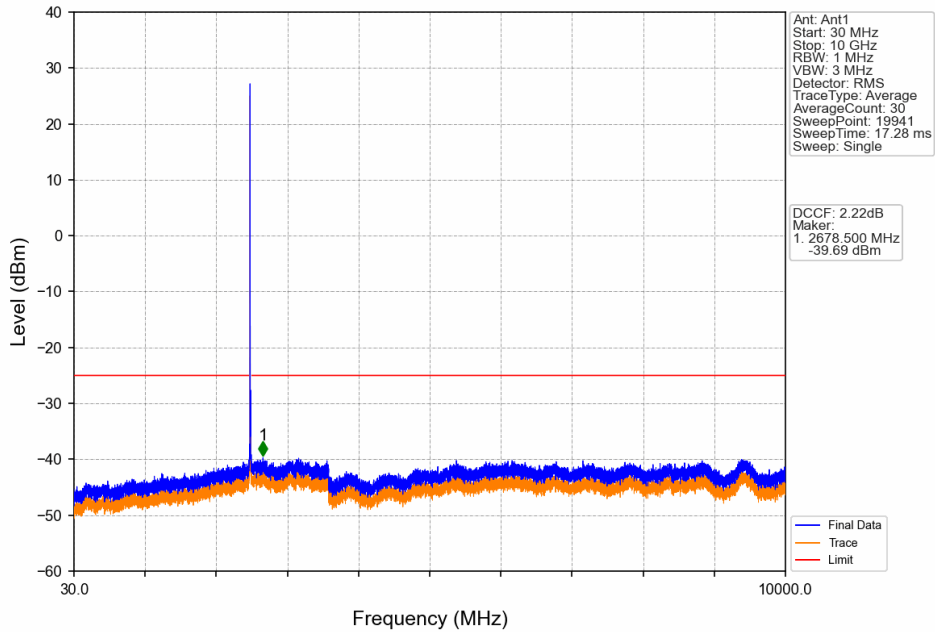
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Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_1\_0\_NTNV



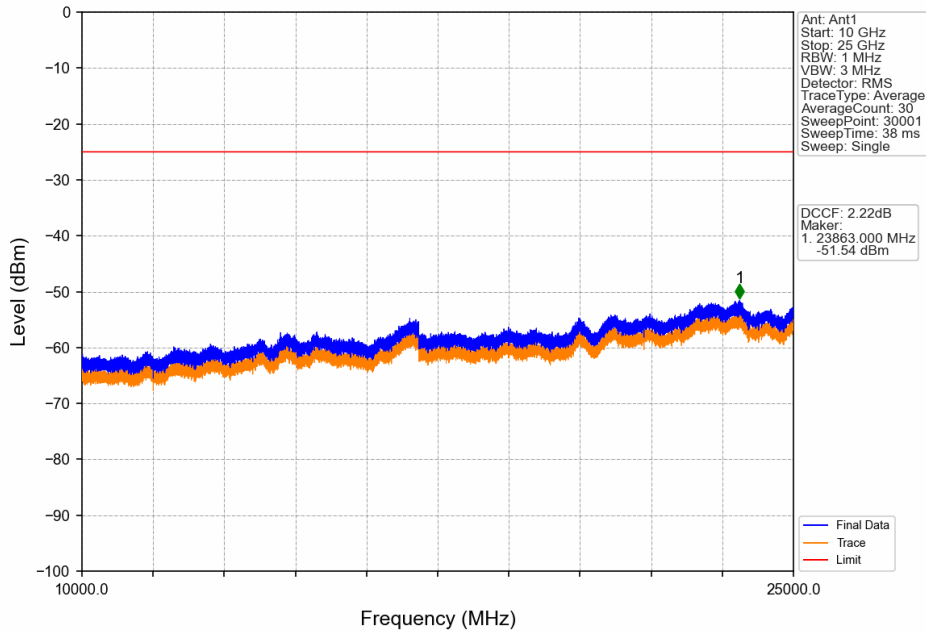
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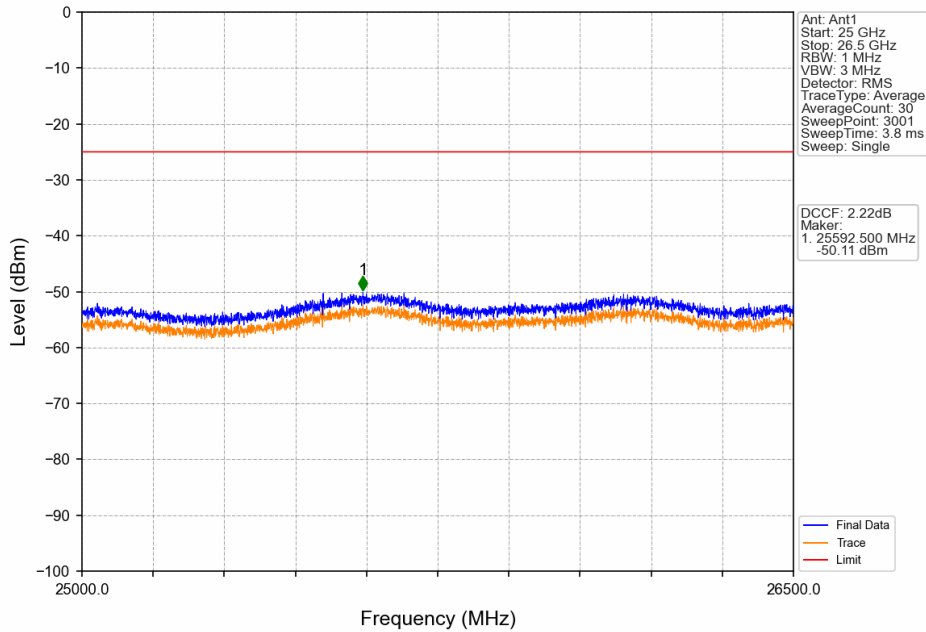
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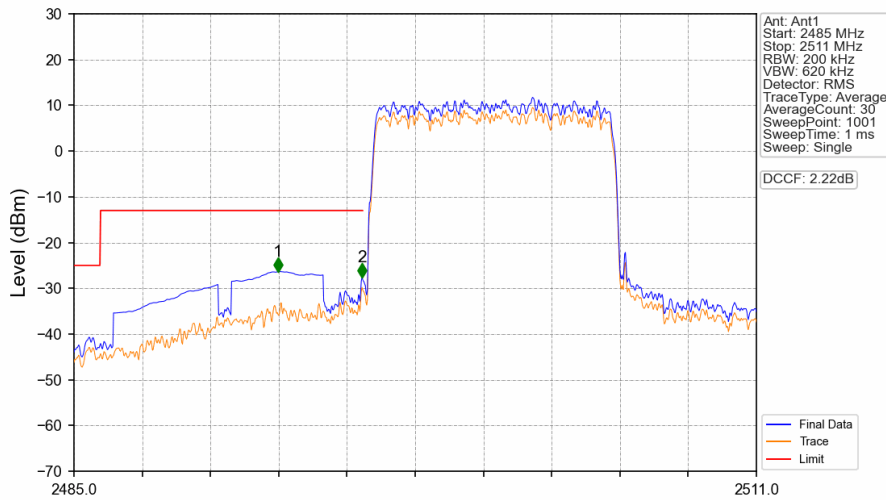
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Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2492.774	-26.36	-13	Pass
2495	2496	0.2	/	2	2495.972	-27.59	-13	Pass
2496	2511	0.2	/	/	/	/	/	/

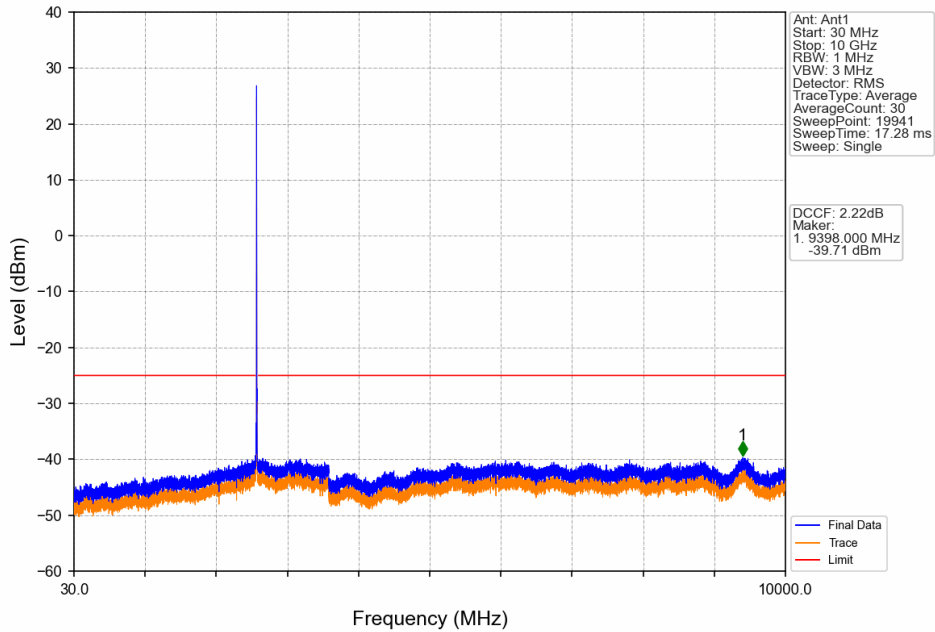


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Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



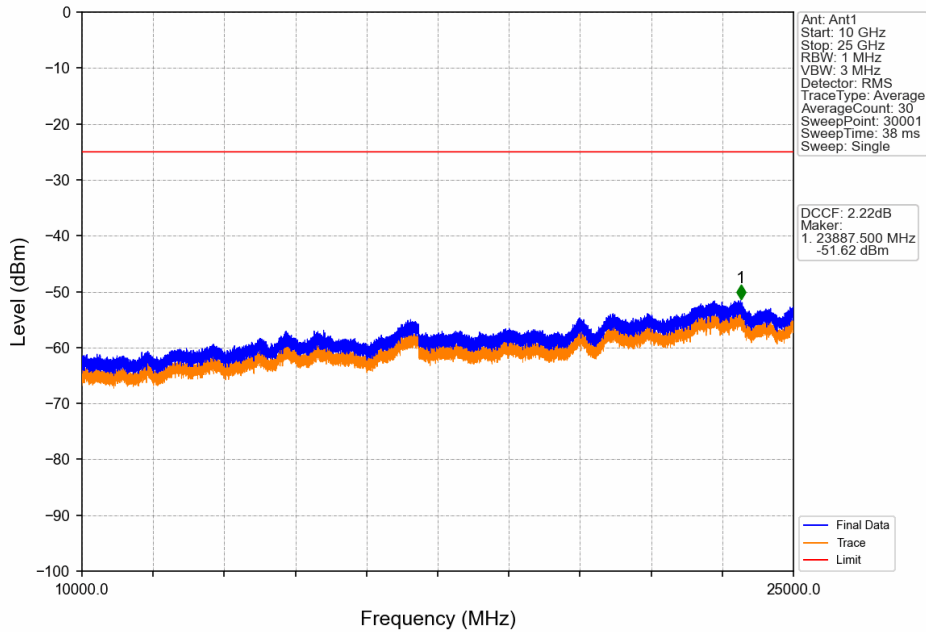
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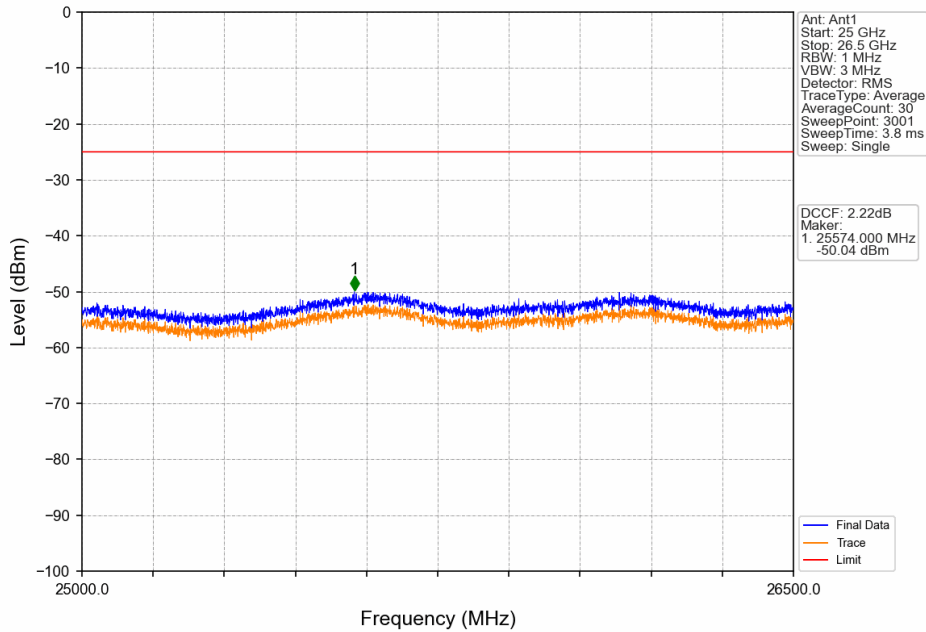
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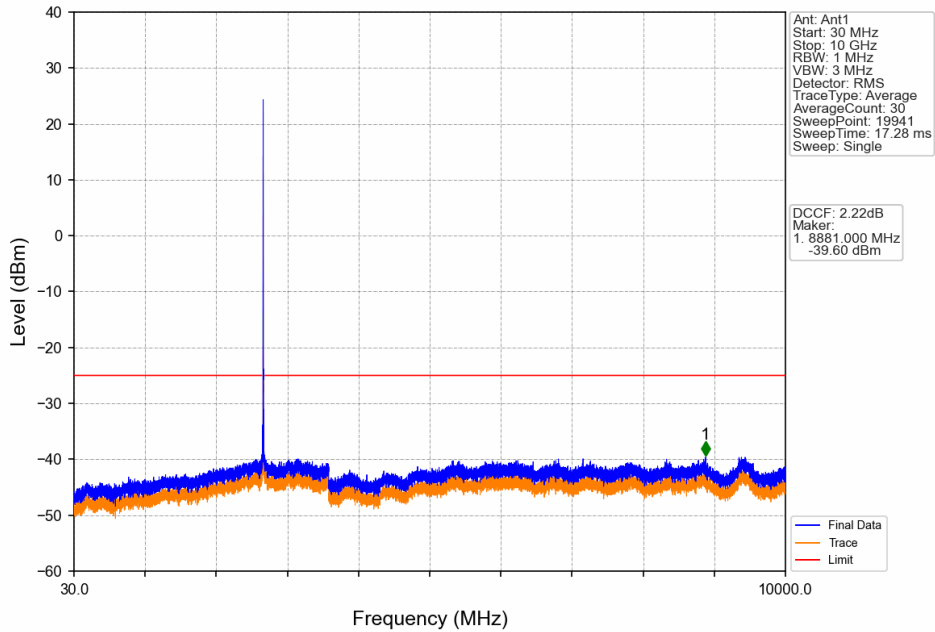
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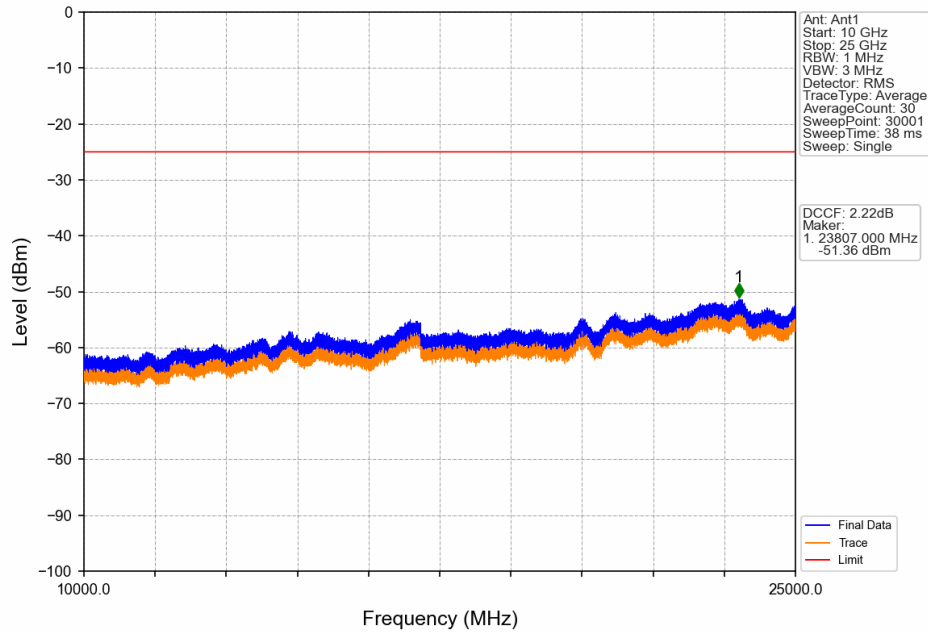
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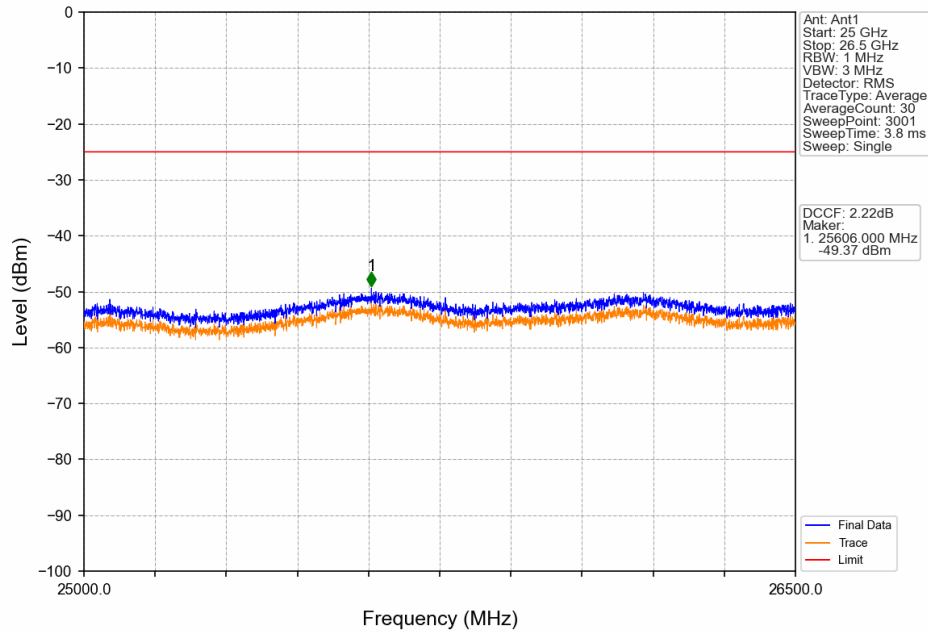
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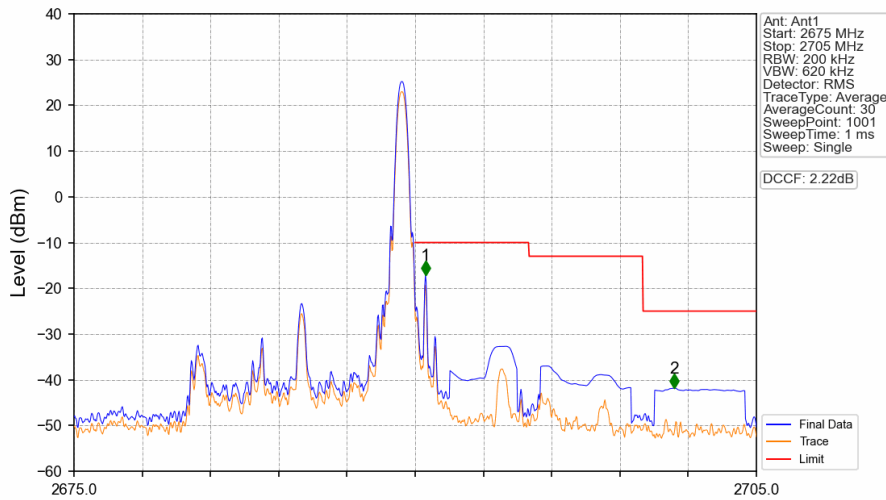


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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.450	-17.09	-10	Pass
2691	2705	1	CHP	2	2701.400	-41.83	-25	Pass

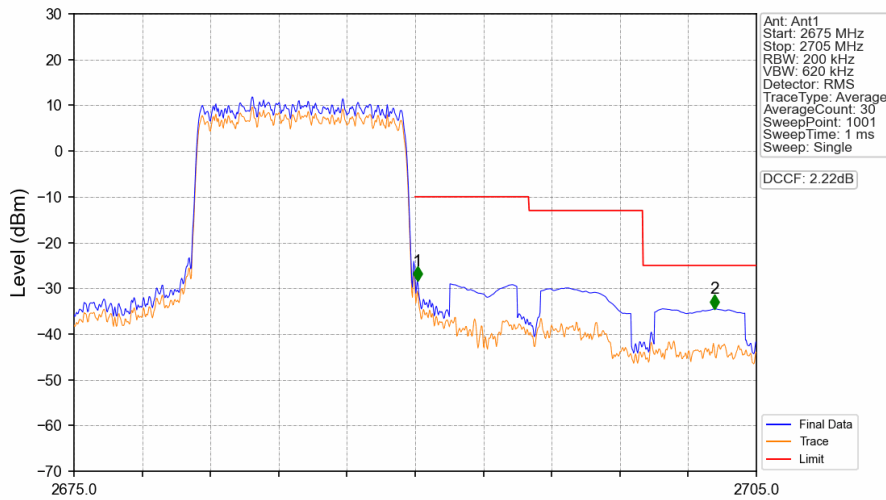


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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.090	-28.41	-10	Pass
2691	2705	1	CHP	2	2703.170	-34.46	-25	Pass

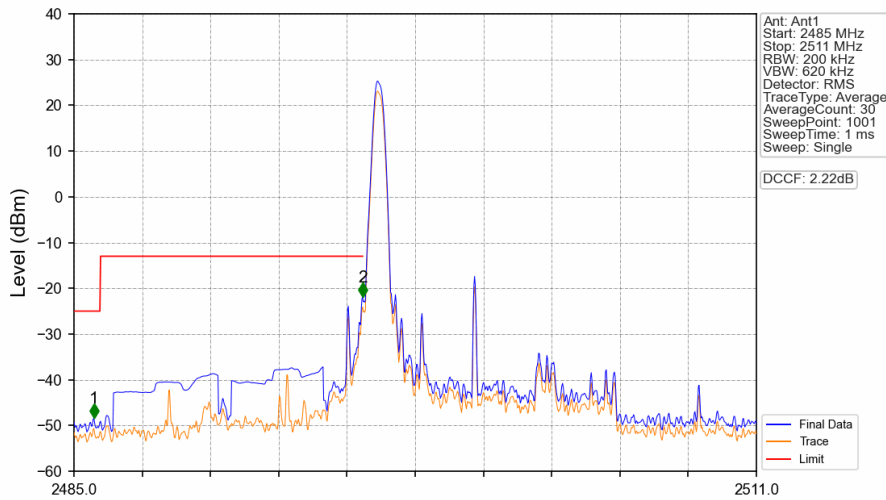


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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_1\_0\_NTNV



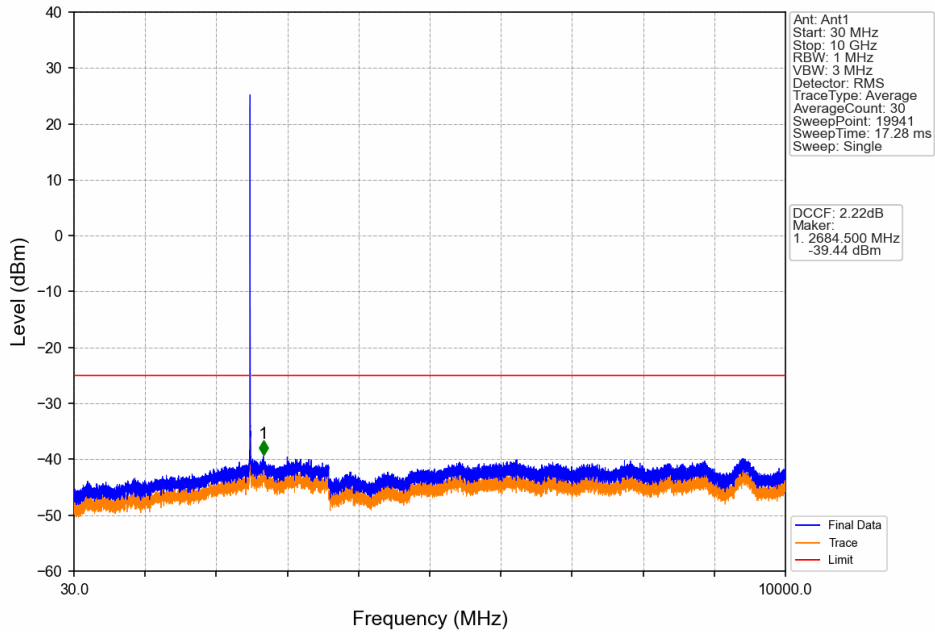
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2485.754	-48.42	-25	Pass
2495	2496	0.2	/	2	2495.998	-21.90	-13	Pass
2496	2511	0.2	/	/	/	/	/	/



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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_1\_0\_NTNV



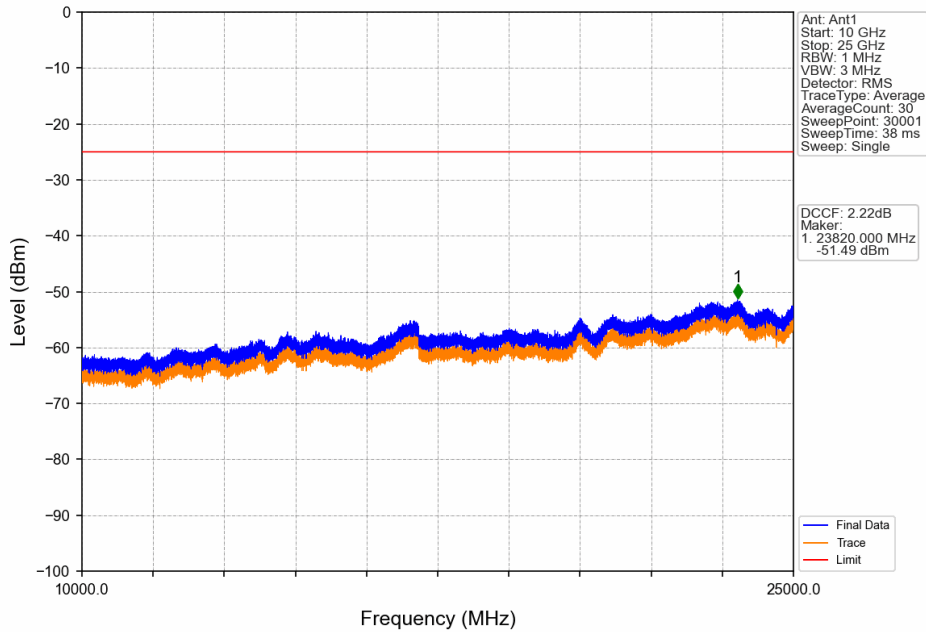
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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_1\_0\_NTNV

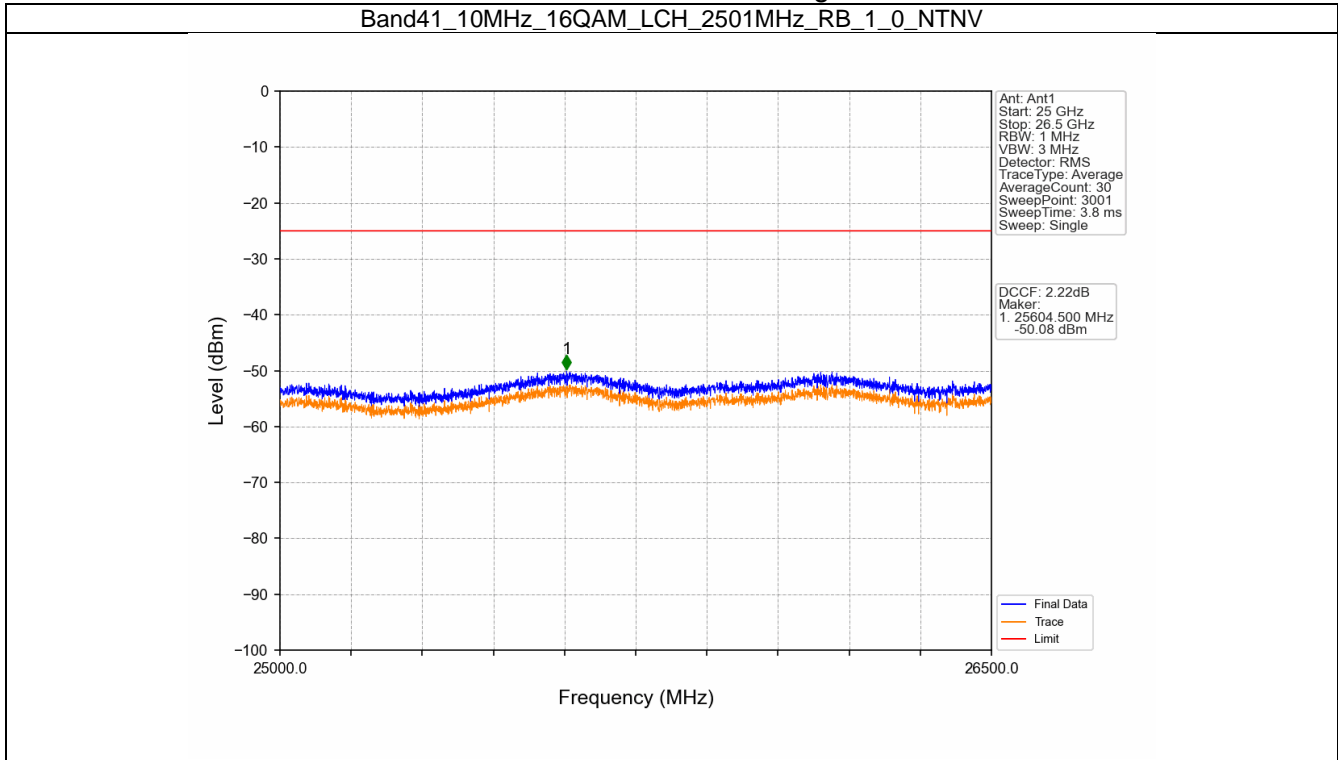


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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_1\_0\_NTNV

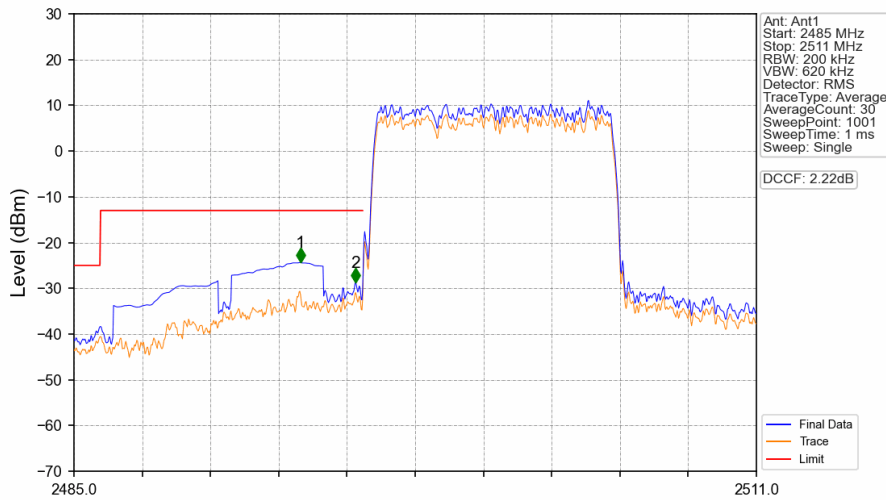


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Band41\_10MHz\_16QAM\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2493.632	-24.38	-13	Pass
2495	2496	0.2	/	2	2495.738	-28.77	-13	Pass
2496	2511	0.2	/	/	/	/	/	/



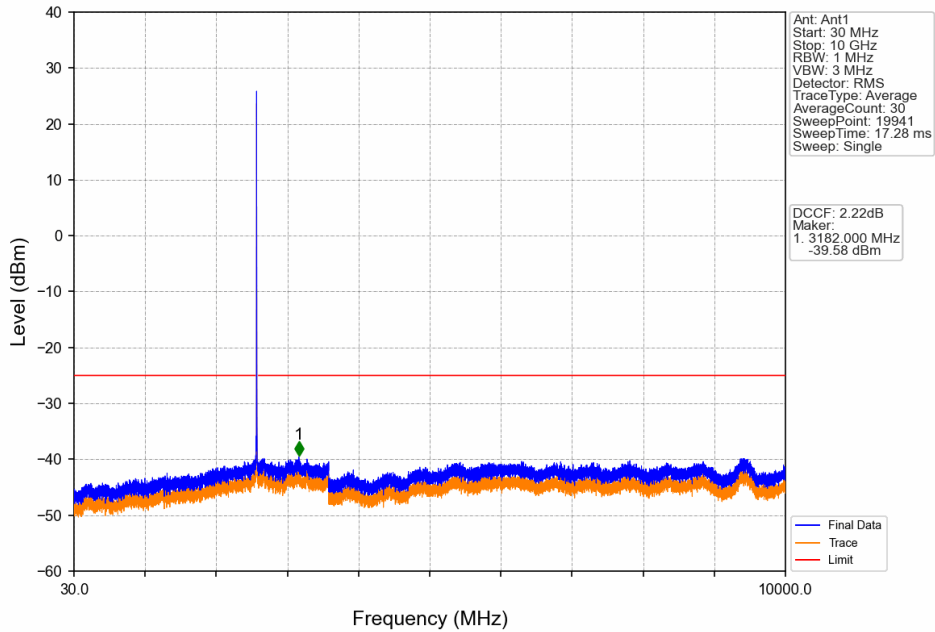
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Band41\_10MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV

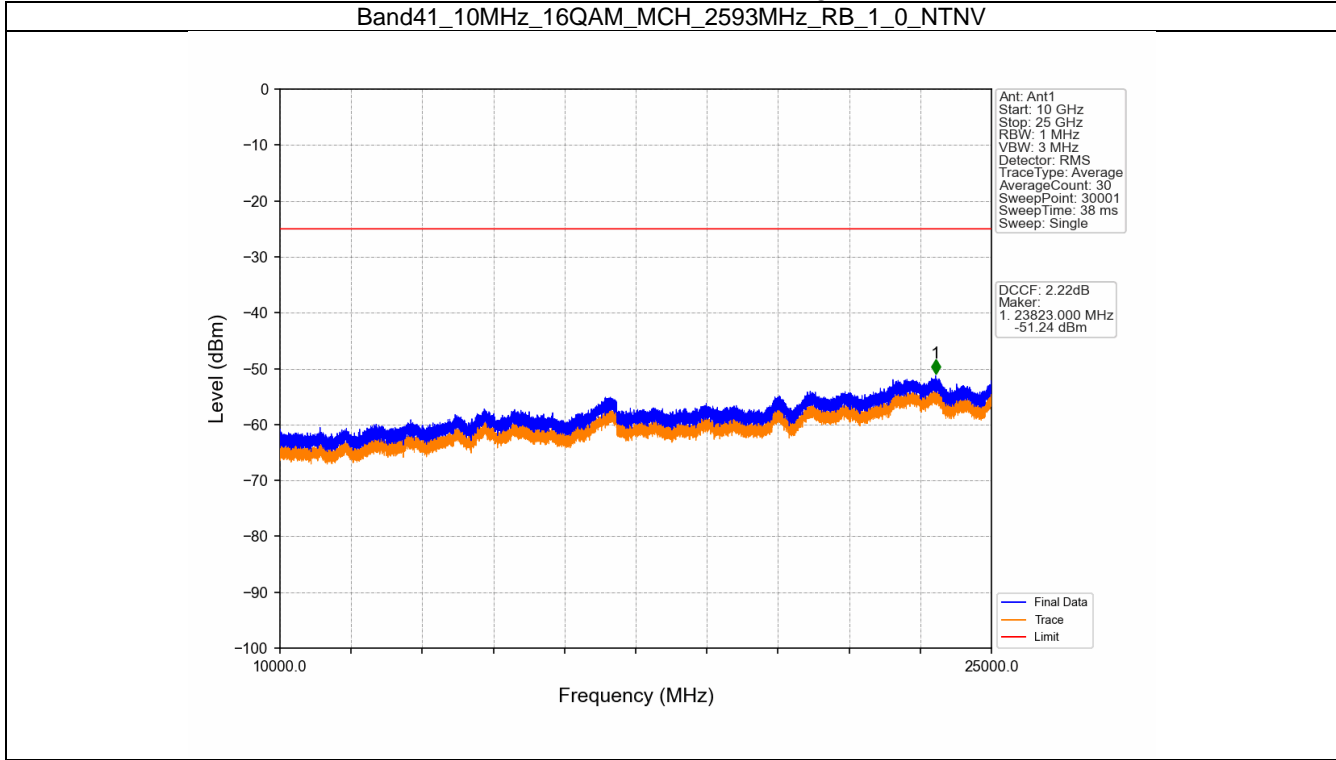


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Band41\_10MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV



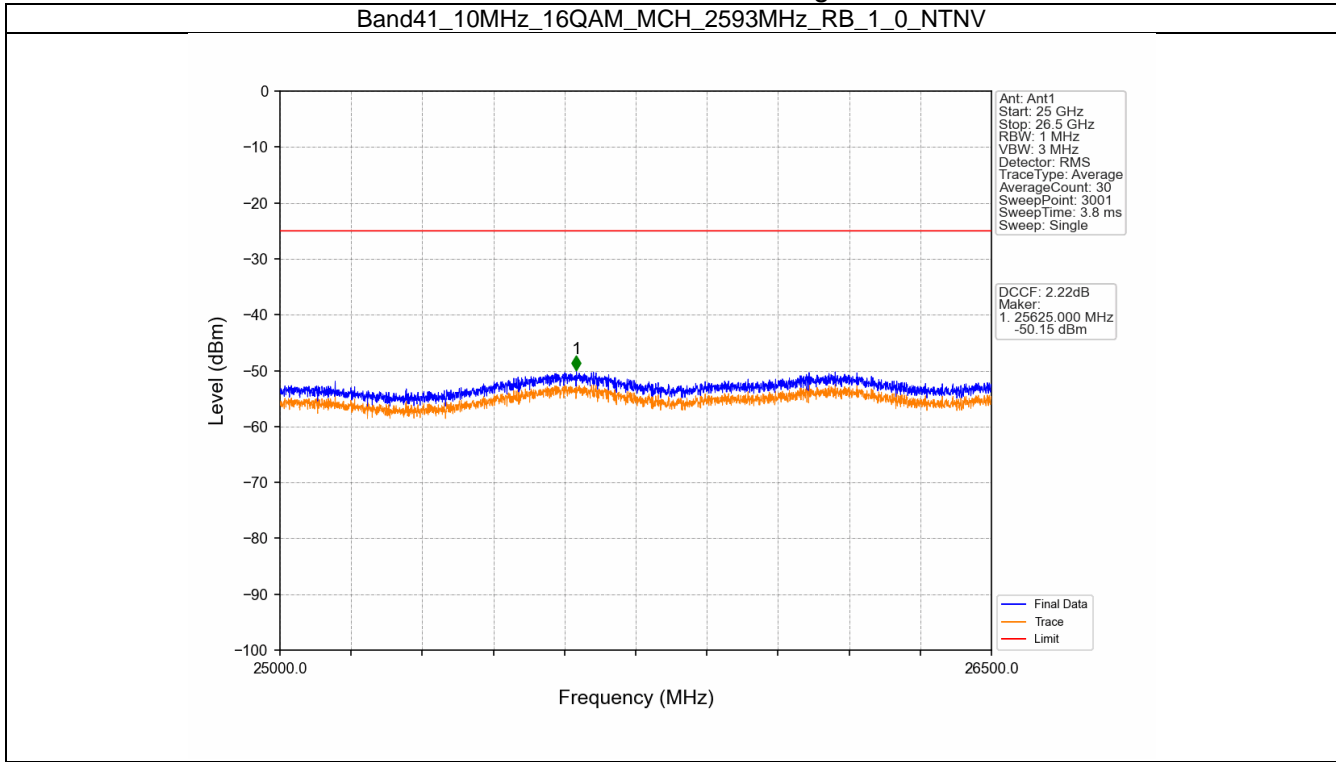
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Band41\_10MHz\_16QAM\_MCH\_2593MHz\_RB\_1\_0\_NTNV



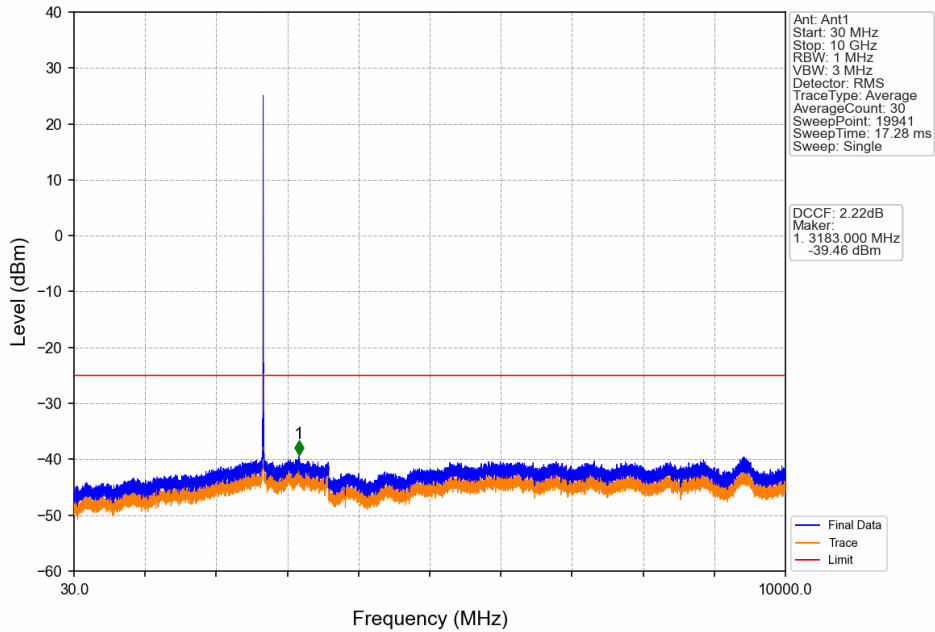
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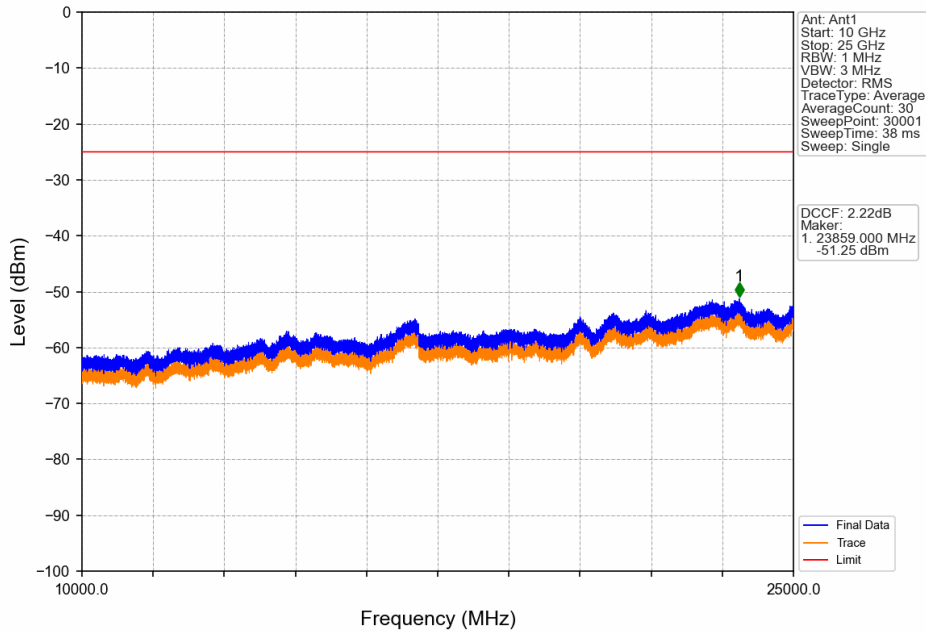


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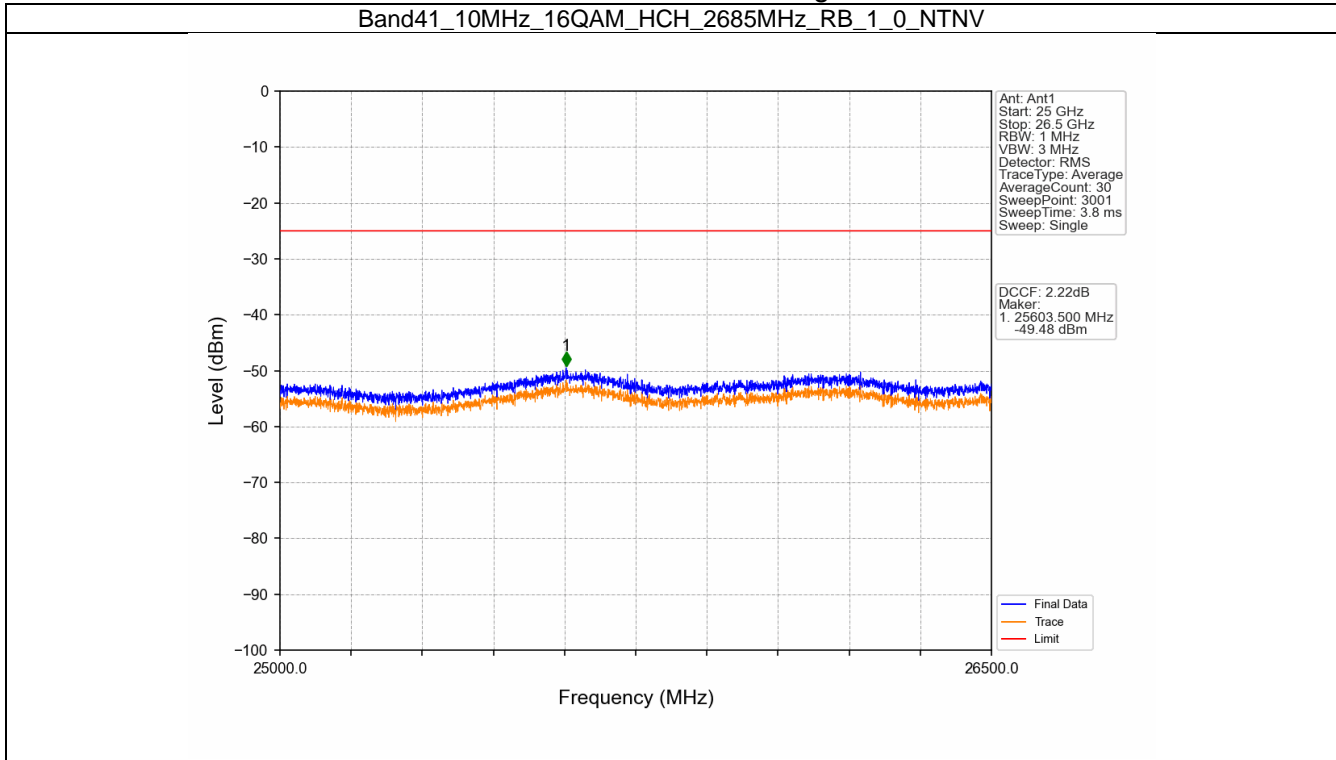


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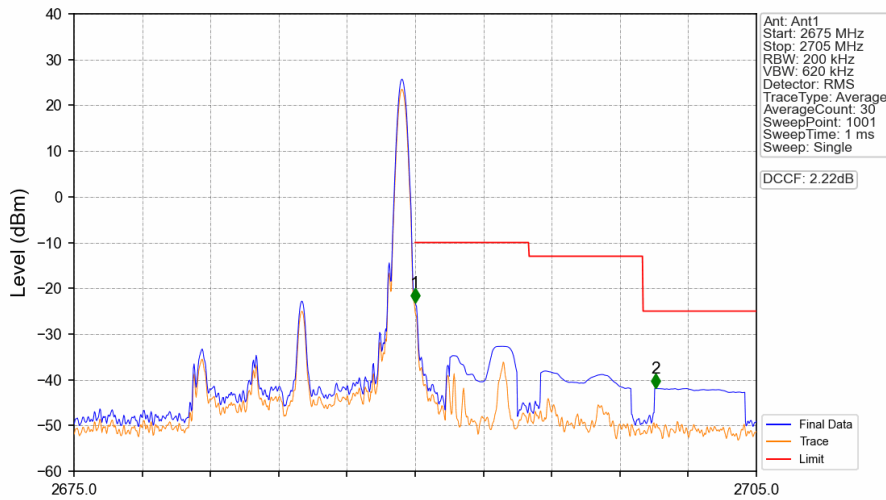


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Band41\_10MHz\_16QAM\_HCH\_2685MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.000	-23.10	-10	Pass
2691	2705	1	CHP	2	2700.560	-41.89	-25	Pass



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