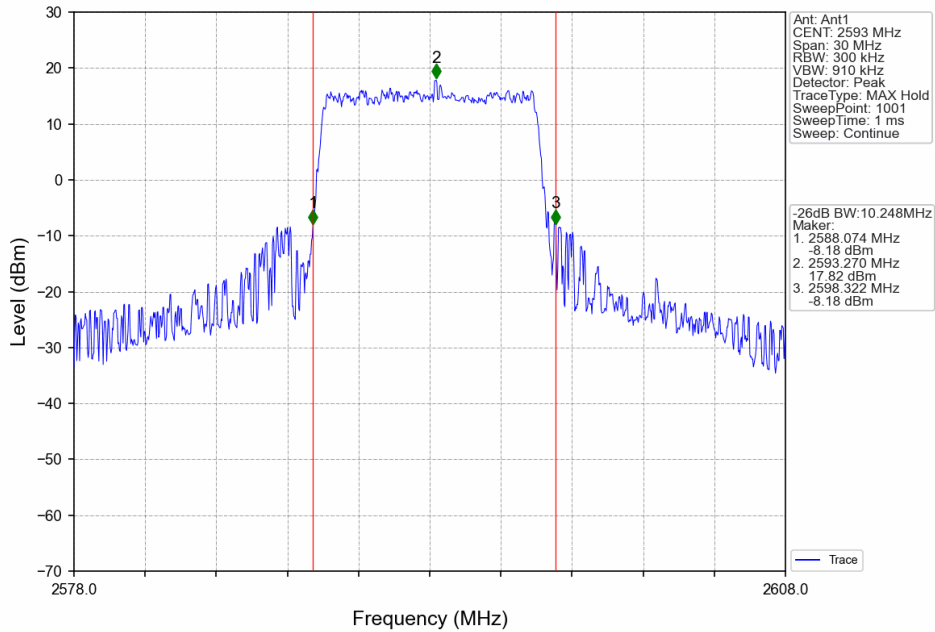


Band41 10MHz 64QAM MCH 2593MHz RB 50 0 NTN



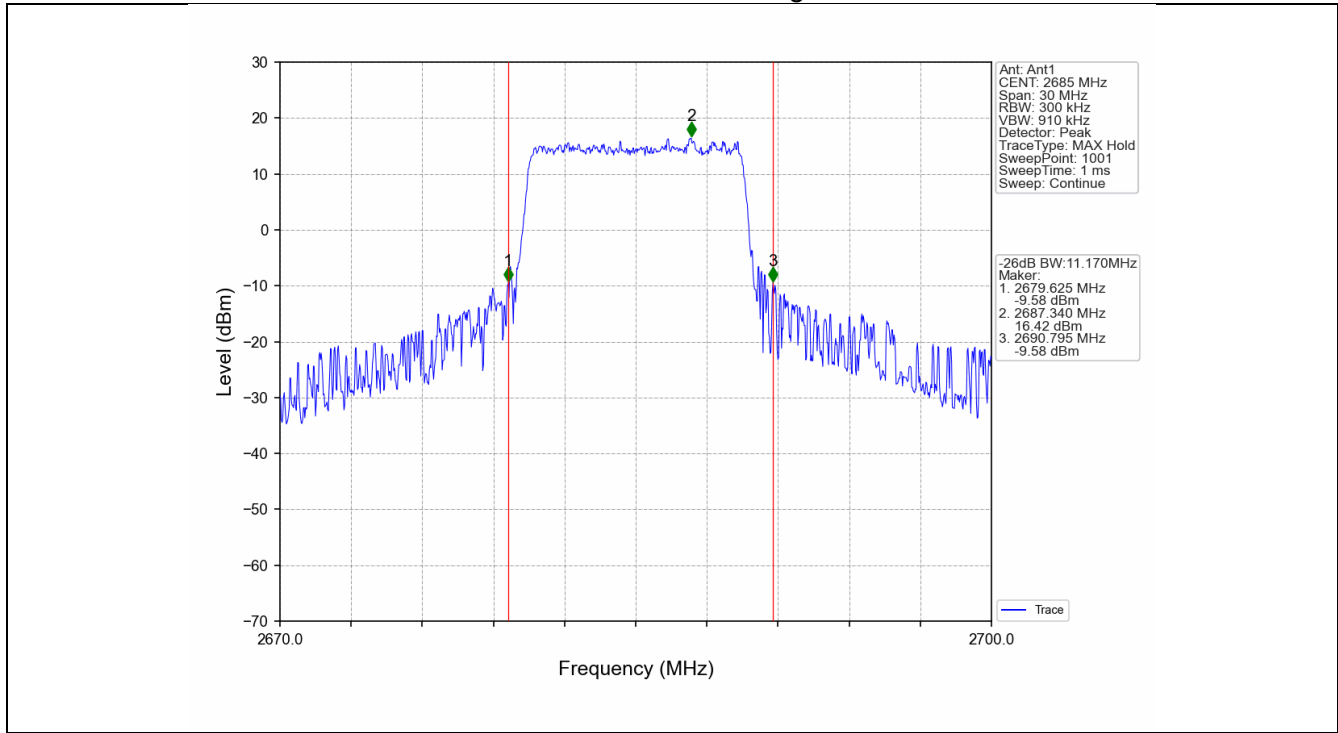
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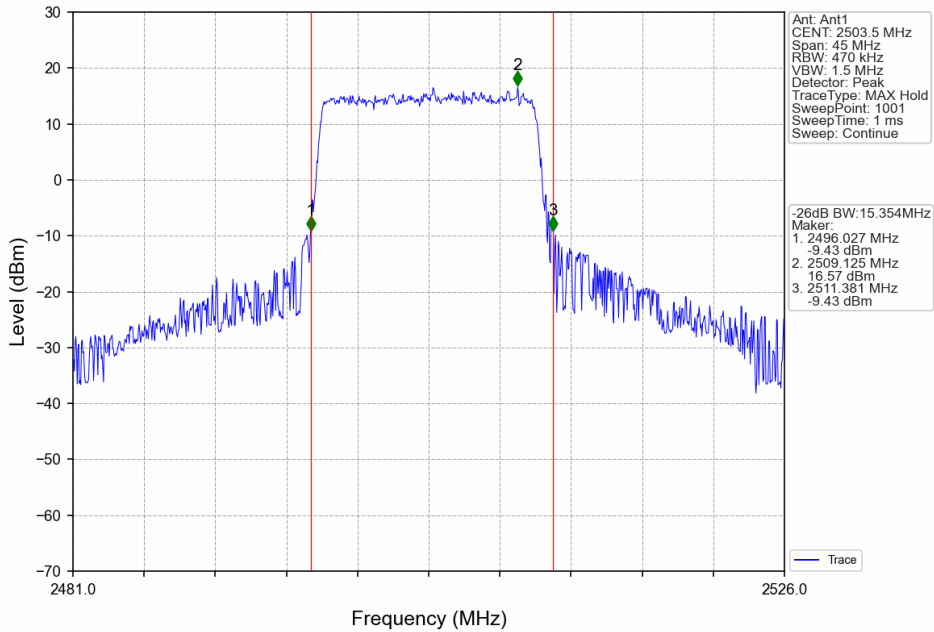
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Band41 15MHz QPSK LCH 2503.5MHz RB 75 0 NTV



Band41 15MHz QPSK MCH 2593MHz RB 75 0 NTV



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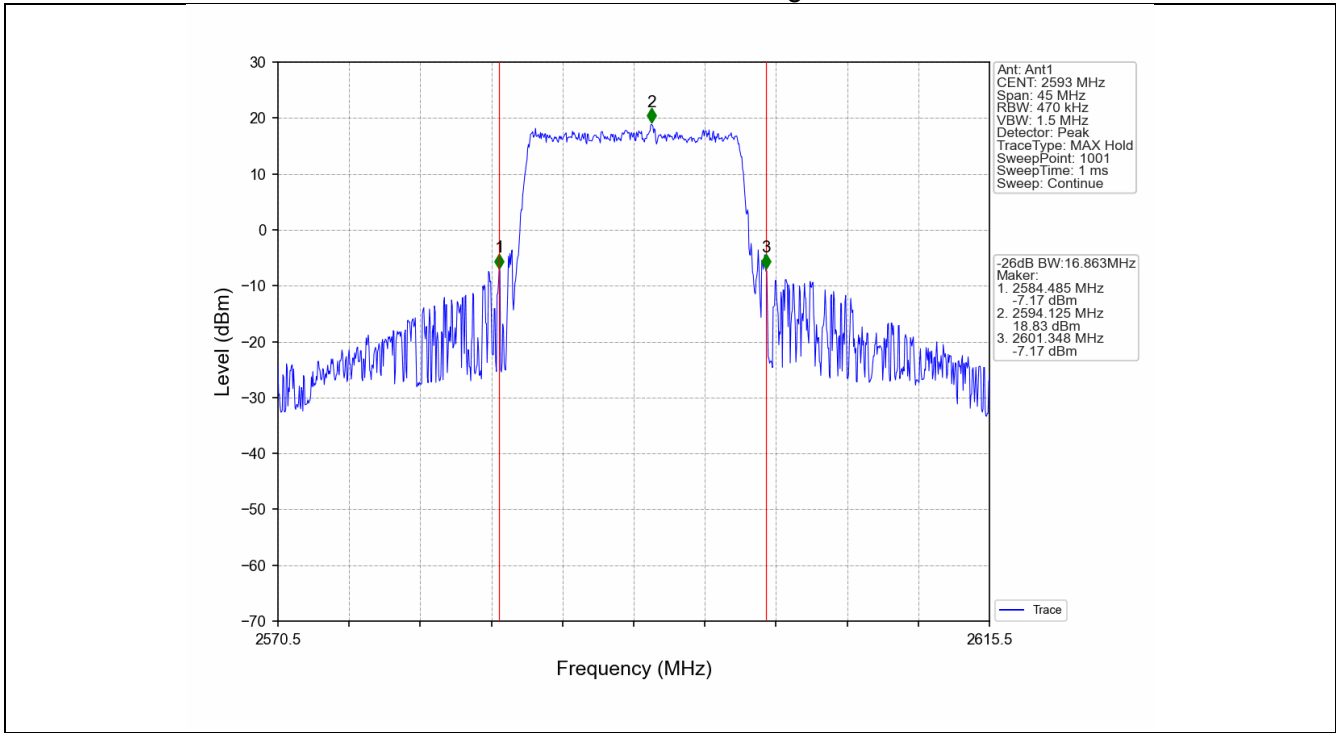
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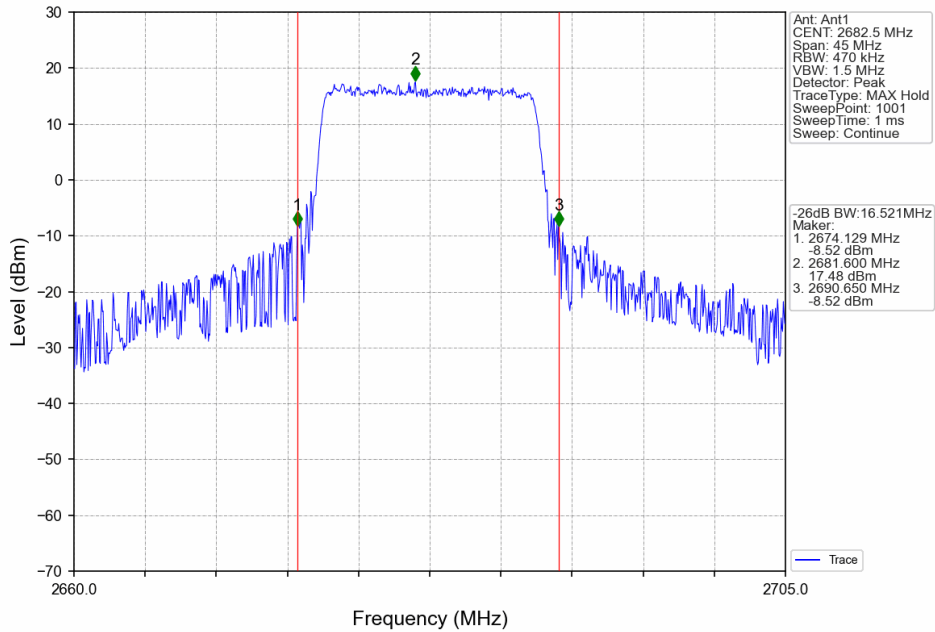
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Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



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

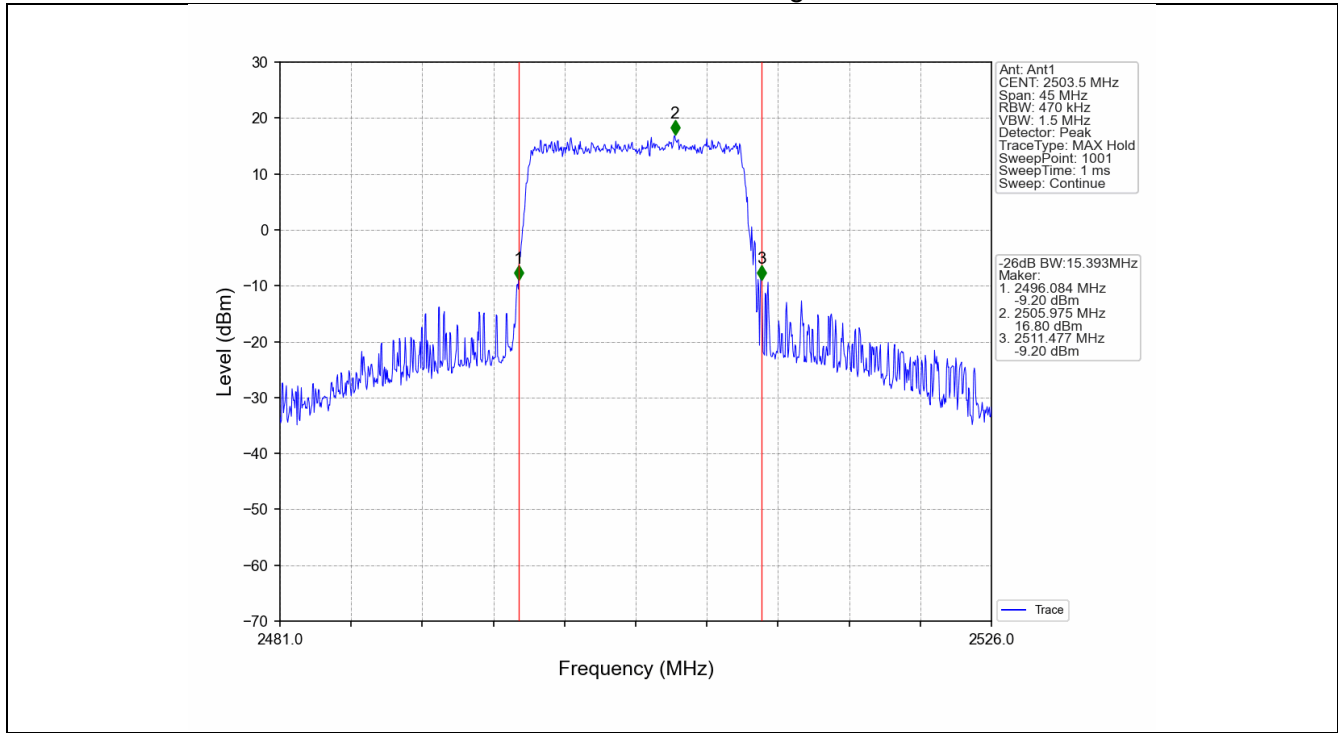


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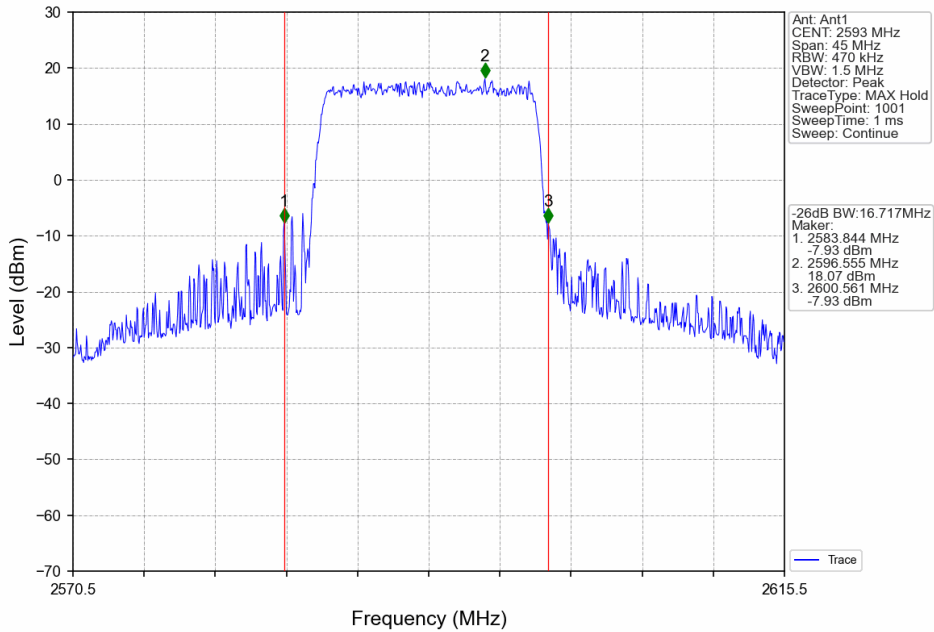


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Band41\_15MHz\_16QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



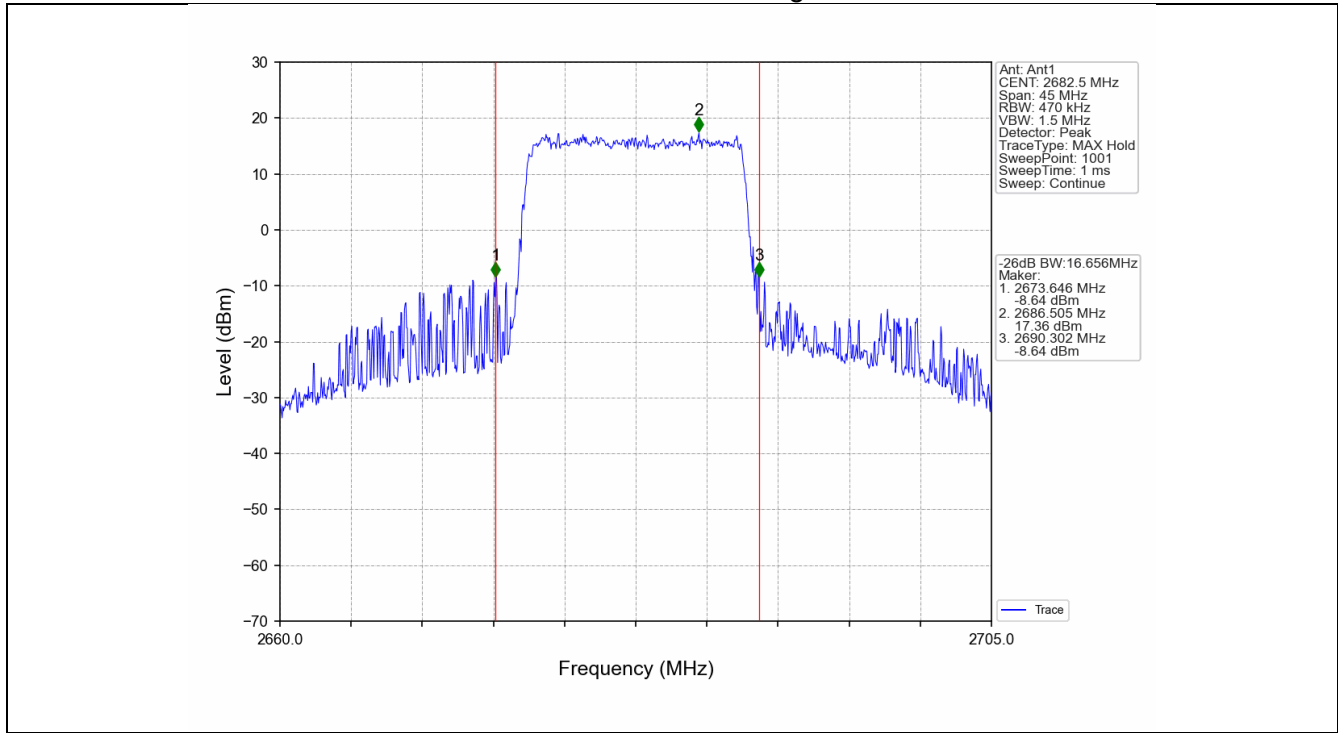
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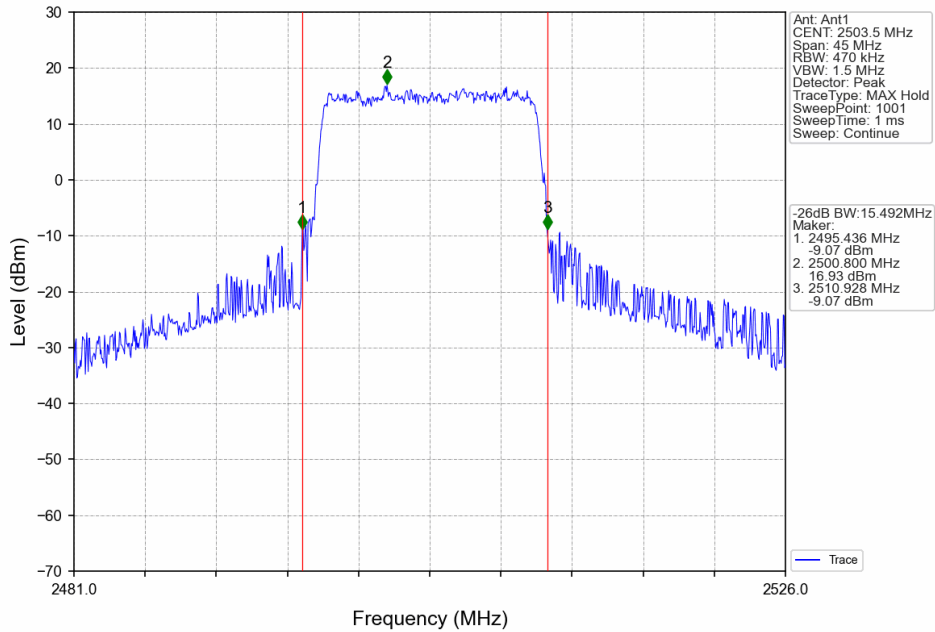
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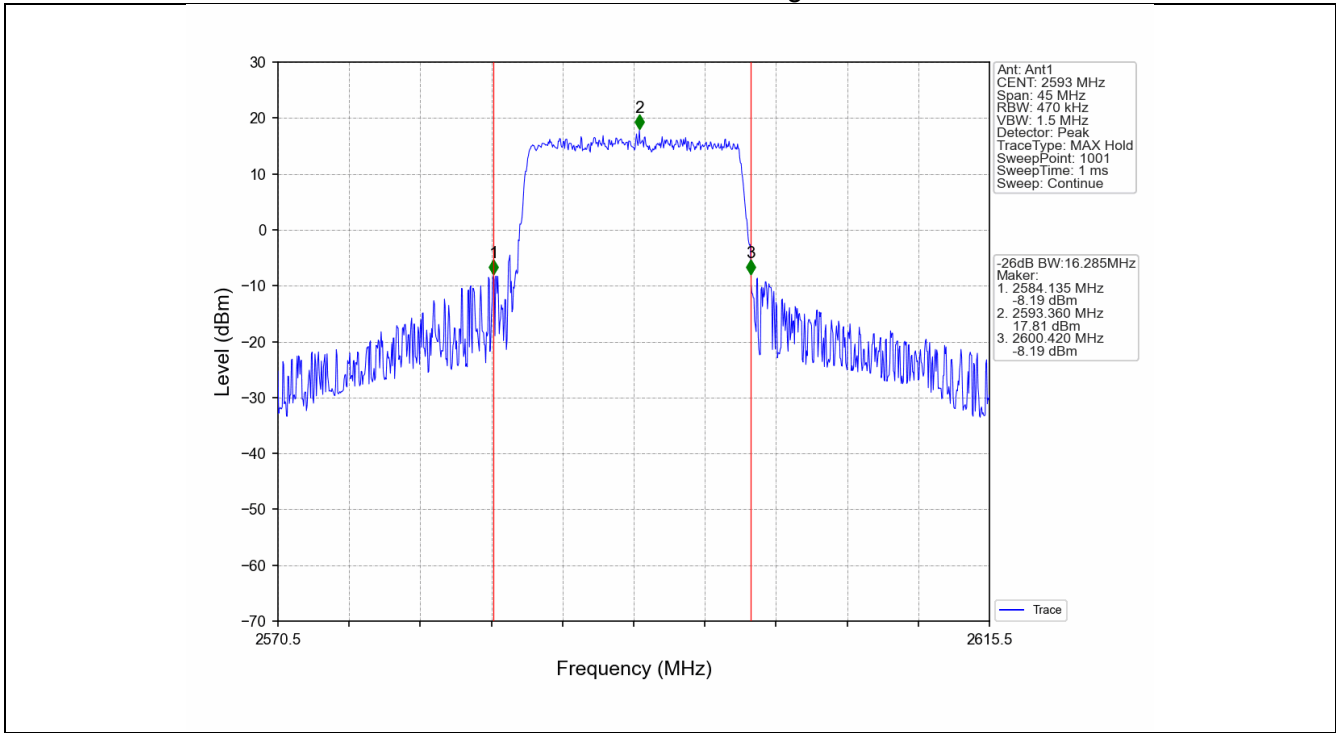
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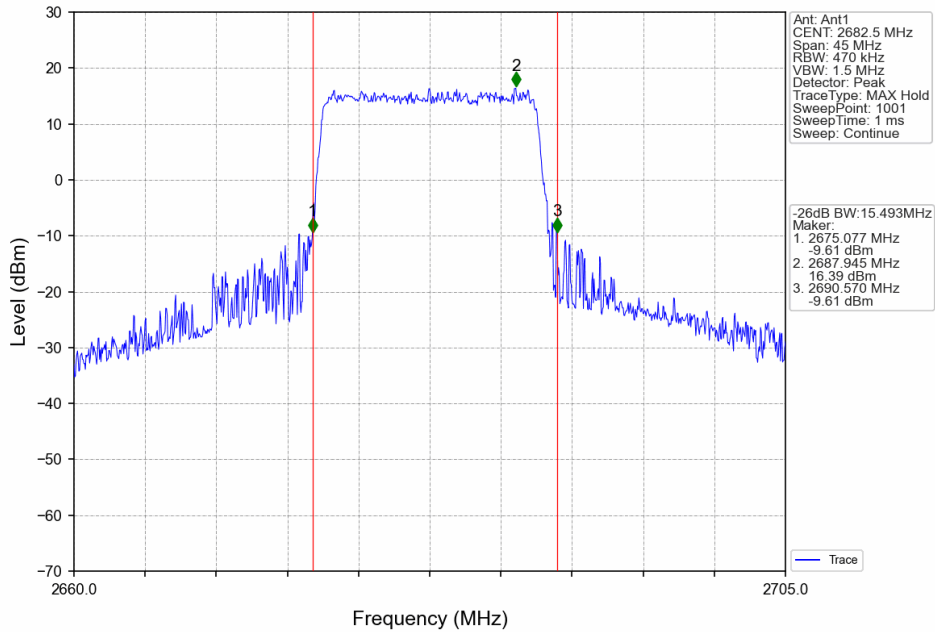


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Band41\_20MHz\_QPSK\_LCH\_2506MHz\_RB\_100\_0\_NTNV

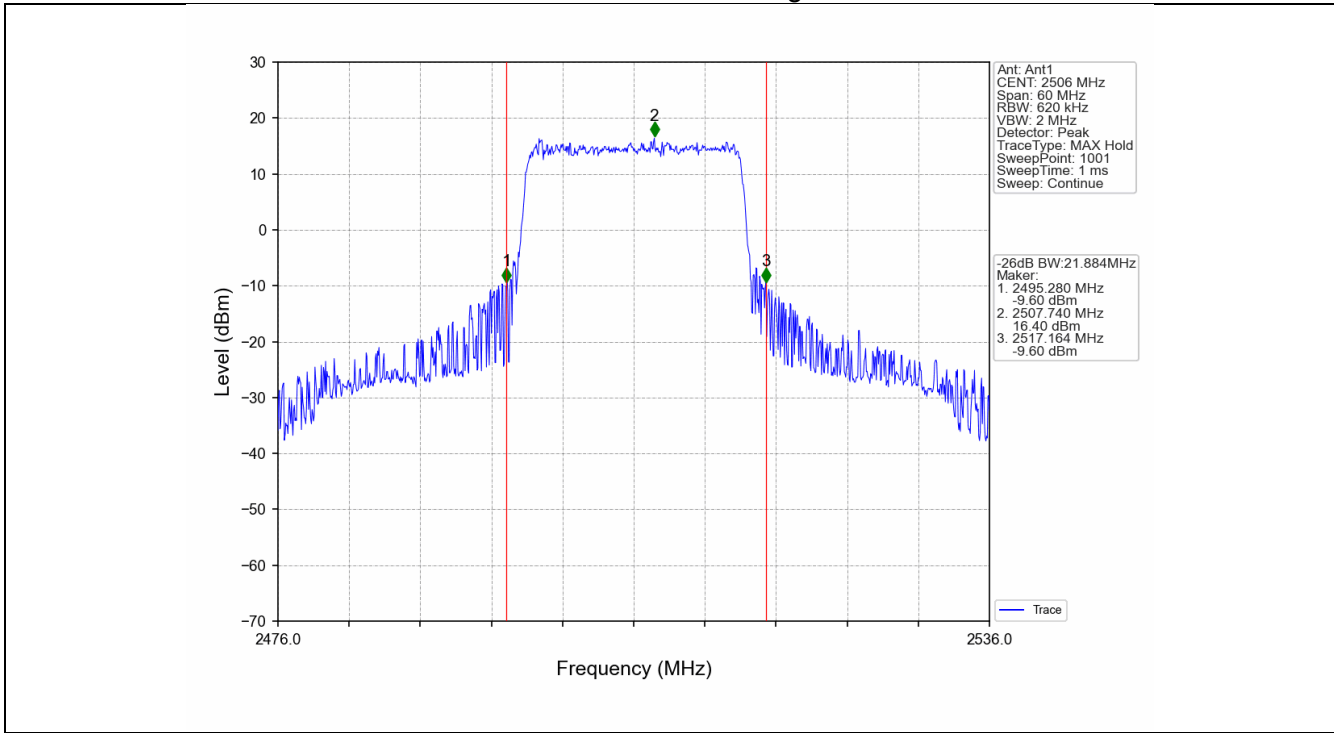


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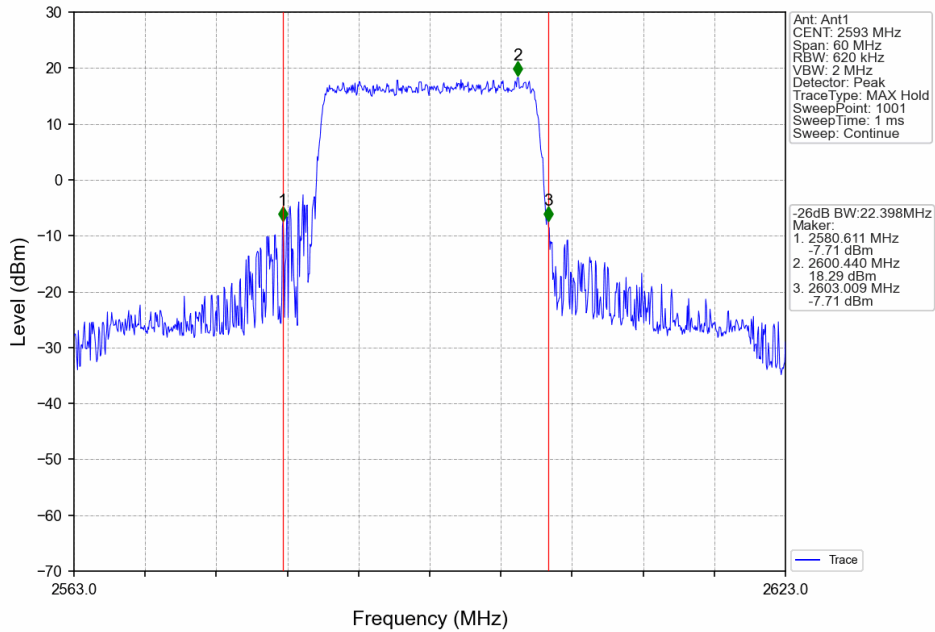


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Band41 20MHz QPSK MCH 2593MHz RB 100\_0 NTN



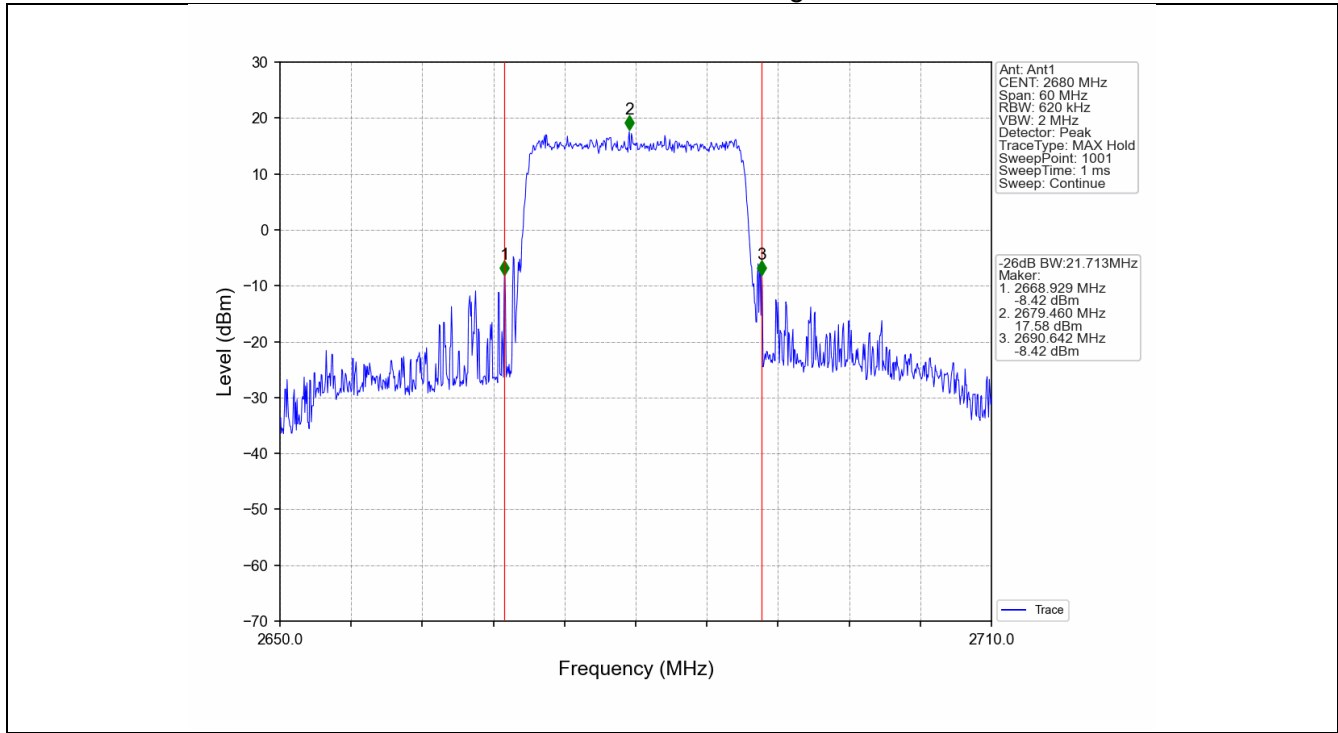
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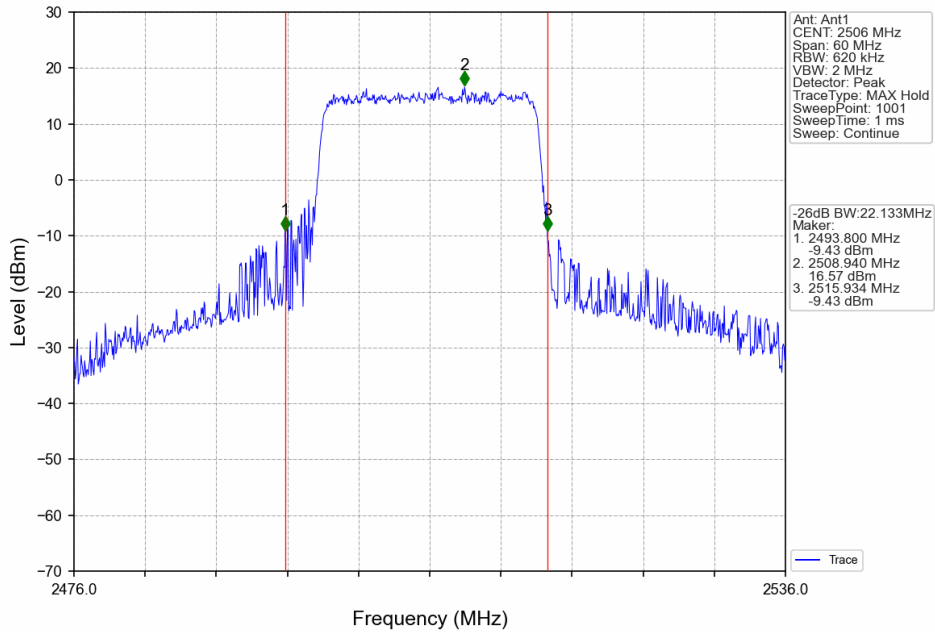


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Band41\_20MHz\_16QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV



Band41\_20MHz\_16QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



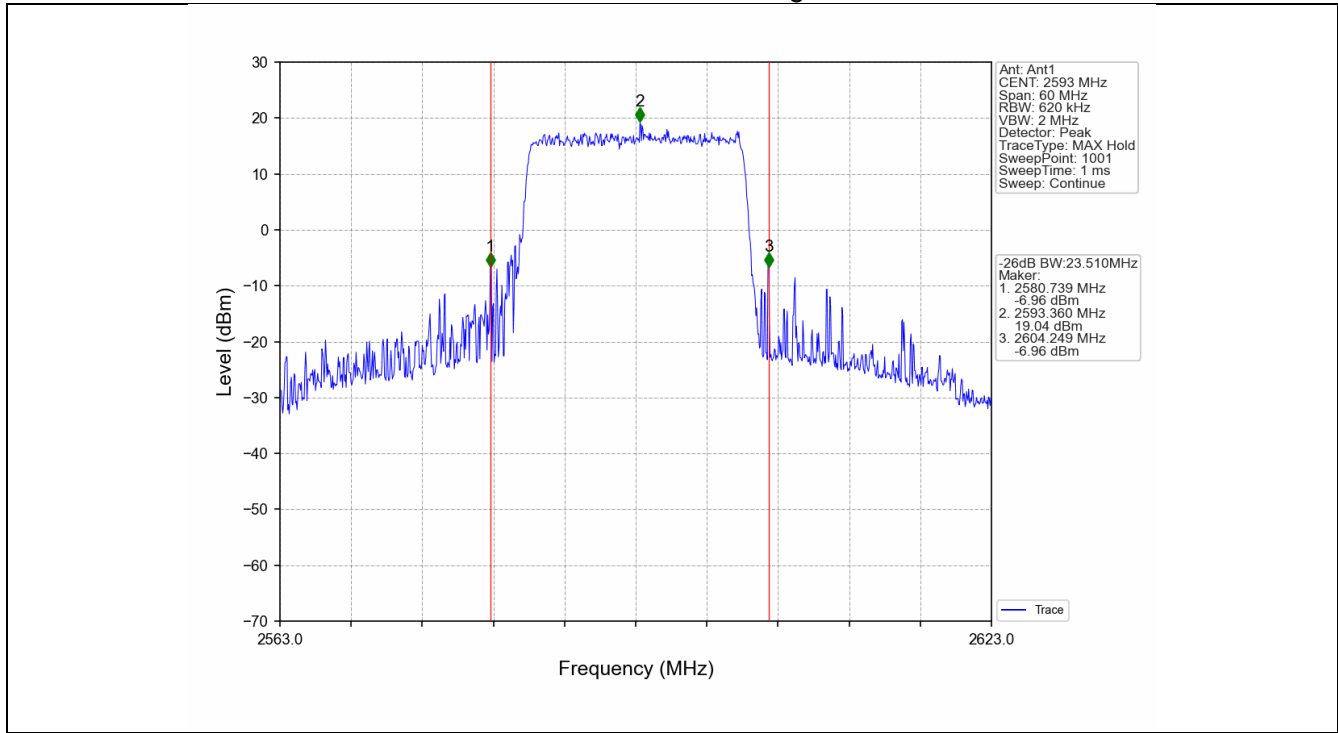
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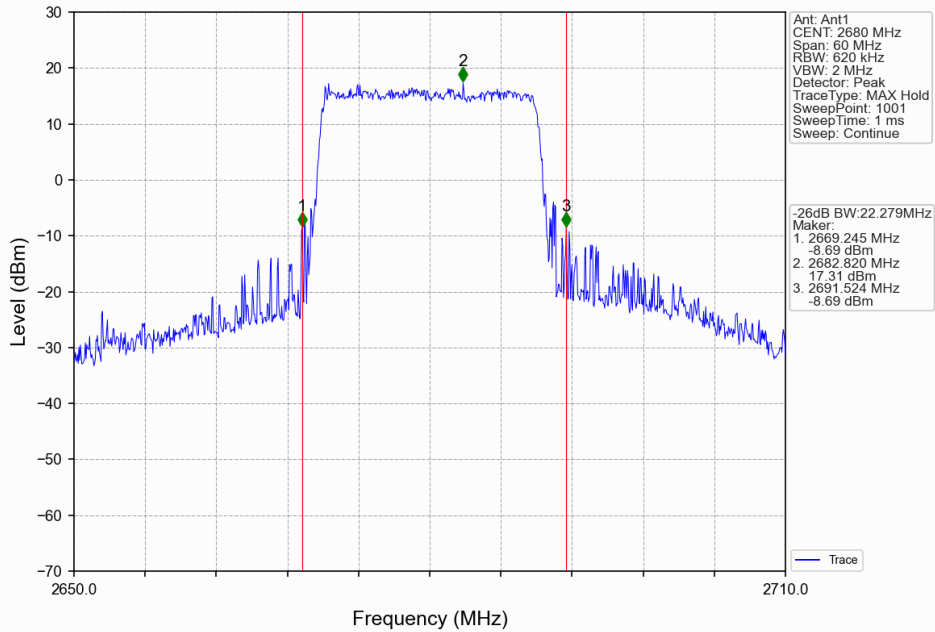
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Band41\_20MHz\_16QAM\_HCH\_2680MHz\_RB\_100\_0\_NTNV



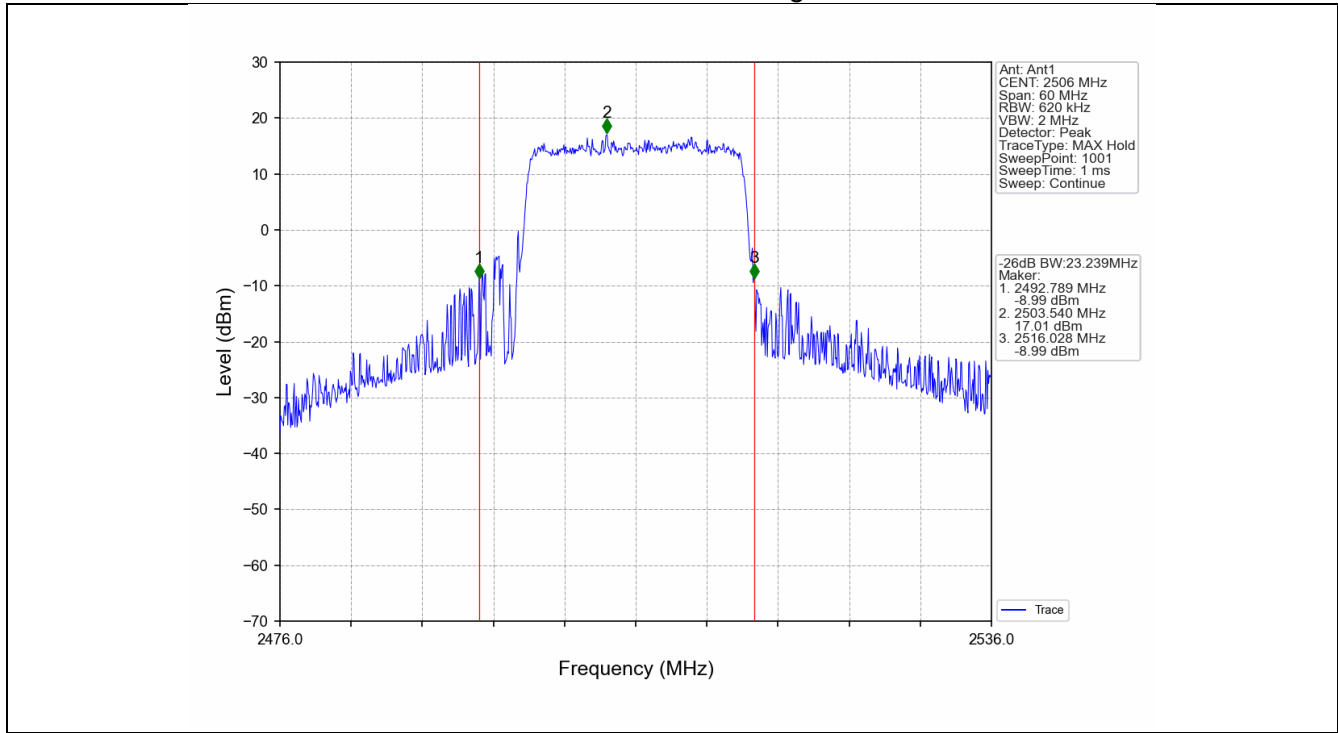
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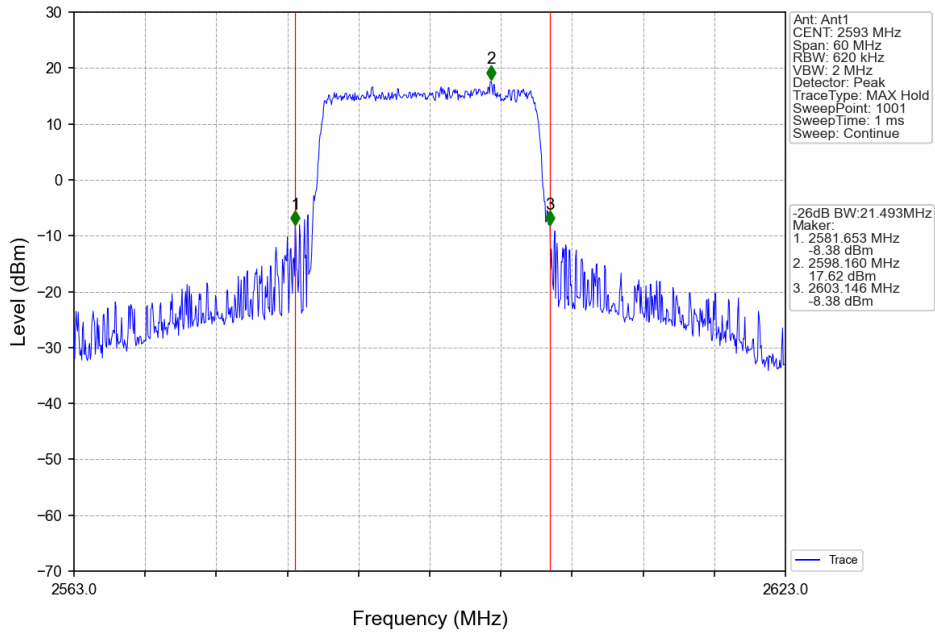


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Band41\_20MHz\_64QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



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



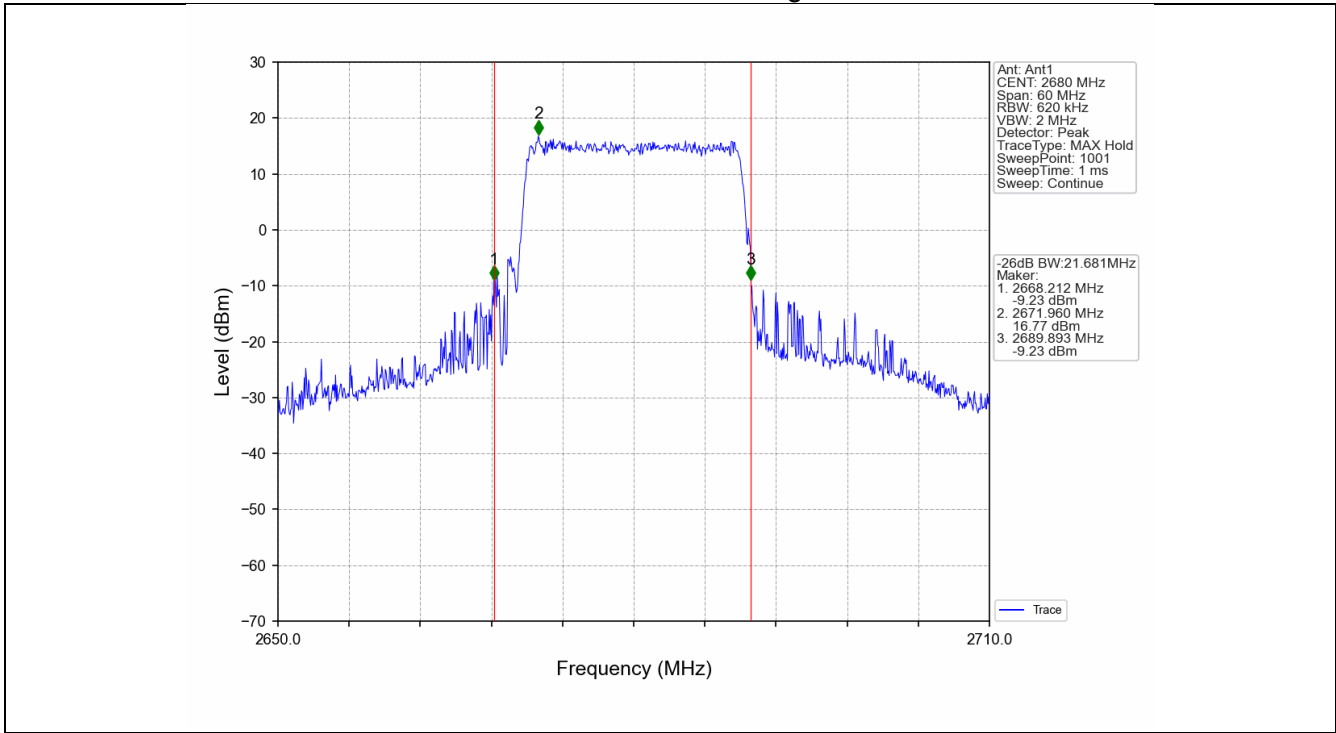
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#### 4. Peak-Average Ratio

##### 4.1 B41\_5MHz

##### 4.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2498.5	25	0	8.12	<=13	Pass
	2593	25	0	7.74	<=13	Pass
	2687.5	25	0	8.13	<=13	Pass
16QAM	2498.5	25	0	8.67	<=13	Pass
	2593	25	0	8.45	<=13	Pass
	2687.5	25	0	8.54	<=13	Pass
64QAM	2498.5	25	0	8.92	<=13	Pass
	2593	25	0	8.69	<=13	Pass
	2687.5	25	0	8.80	<=13	Pass

##### 4.2 B41\_10MHz

##### 4.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2501	50	0	8.07	<=13	Pass
	2593	50	0	7.88	<=13	Pass
	2685	50	0	7.79	<=13	Pass
16QAM	2501	50	0	8.82	<=13	Pass
	2593	50	0	8.53	<=13	Pass
	2685	50	0	8.61	<=13	Pass
64QAM	2501	50	0	8.75	<=13	Pass
	2593	50	0	8.75	<=13	Pass
	2685	50	0	8.62	<=13	Pass



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4.3 B41\_15MHz

4.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	75	0	8.34	<=13	Pass
	2593	75	0	7.99	<=13	Pass
	2682.5	75	0	8.17	<=13	Pass
16QAM	2503.5	75	0	8.94	<=13	Pass
	2593	75	0	8.49	<=13	Pass
	2682.5	75	0	8.64	<=13	Pass
64QAM	2503.5	75	0	8.97	<=13	Pass
	2593	75	0	8.78	<=13	Pass
	2682.5	75	0	8.74	<=13	Pass

4.4 B41\_20MHz

4.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	100	0	7.70	<=13	Pass
	2593	100	0	7.90	<=13	Pass
	2680	100	0	7.90	<=13	Pass
16QAM	2506	100	0	8.61	<=13	Pass
	2593	100	0	8.18	<=13	Pass
	2680	100	0	8.45	<=13	Pass
64QAM	2506	100	0	8.66	<=13	Pass
	2593	100	0	8.72	<=13	Pass
	2680	100	0	8.63	<=13	Pass



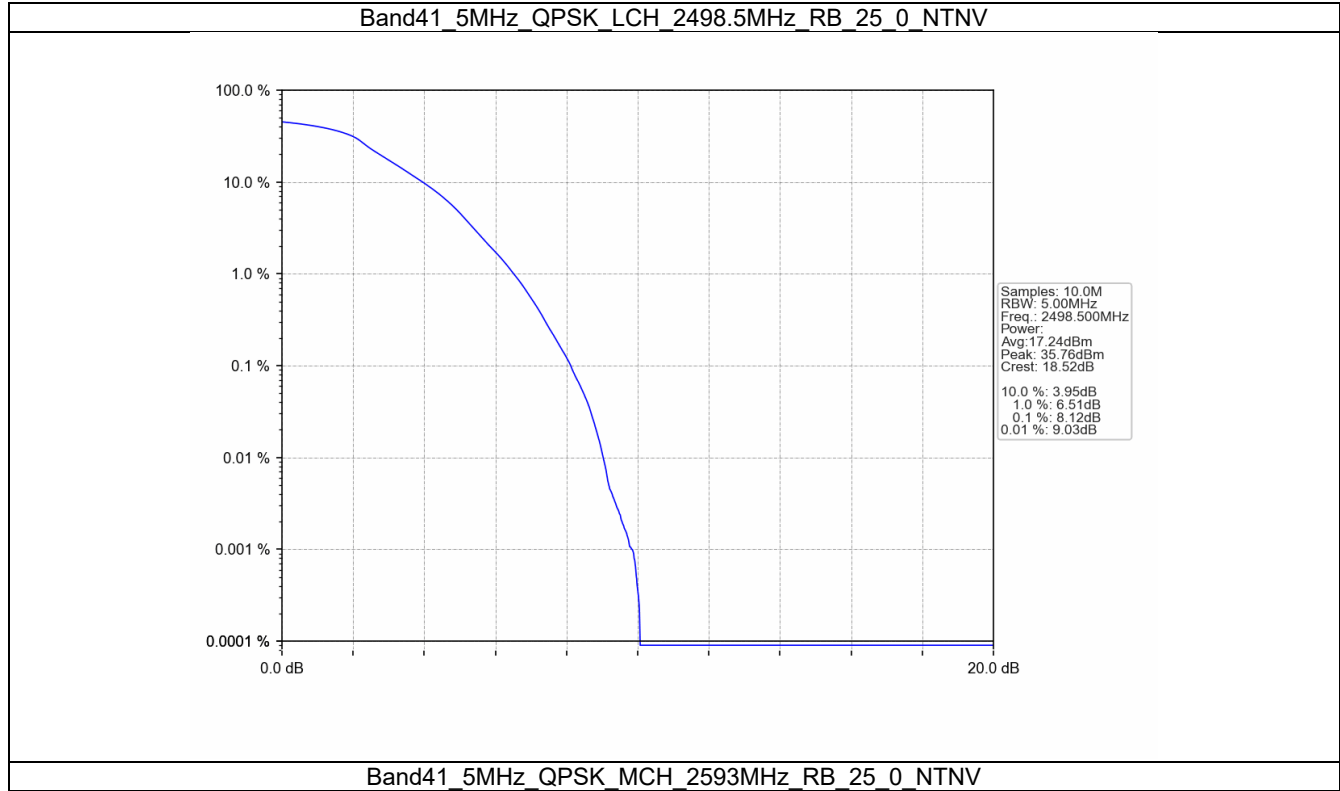
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4.1 B41\_5MHz

4.1.2 Test Graph

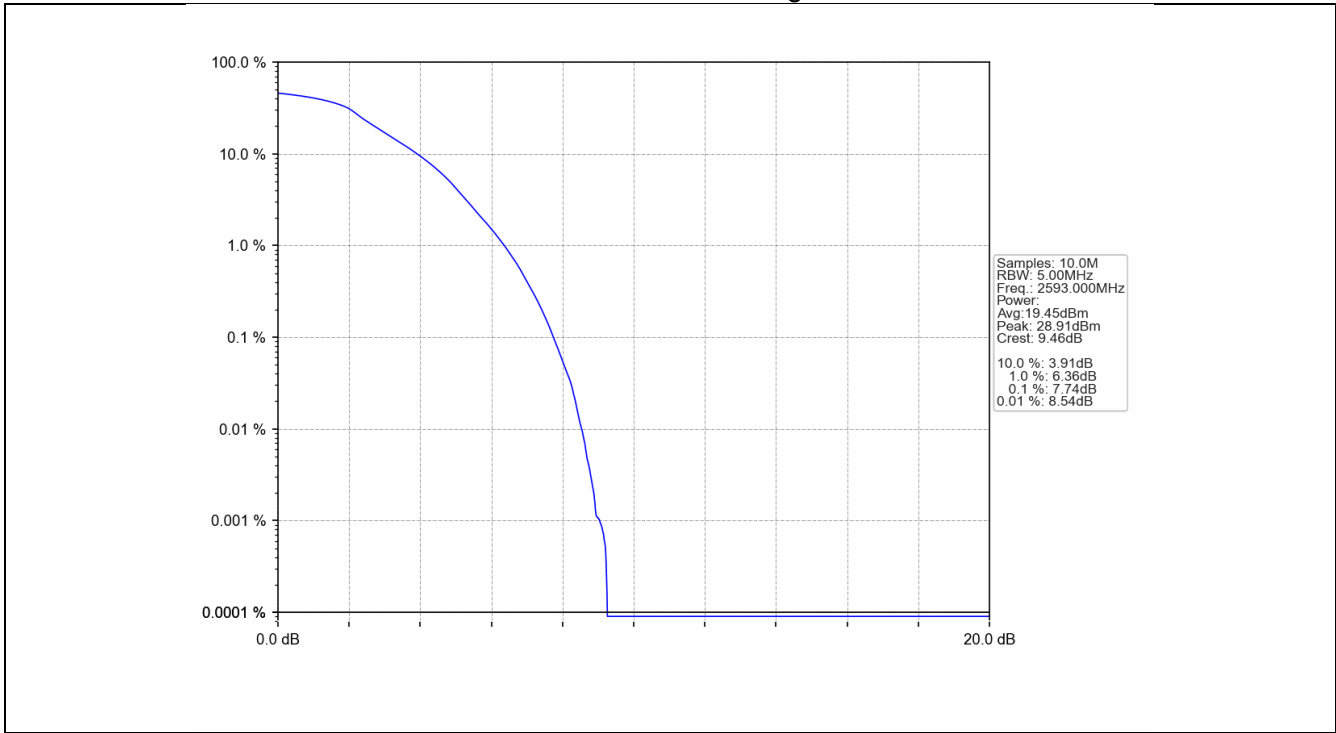


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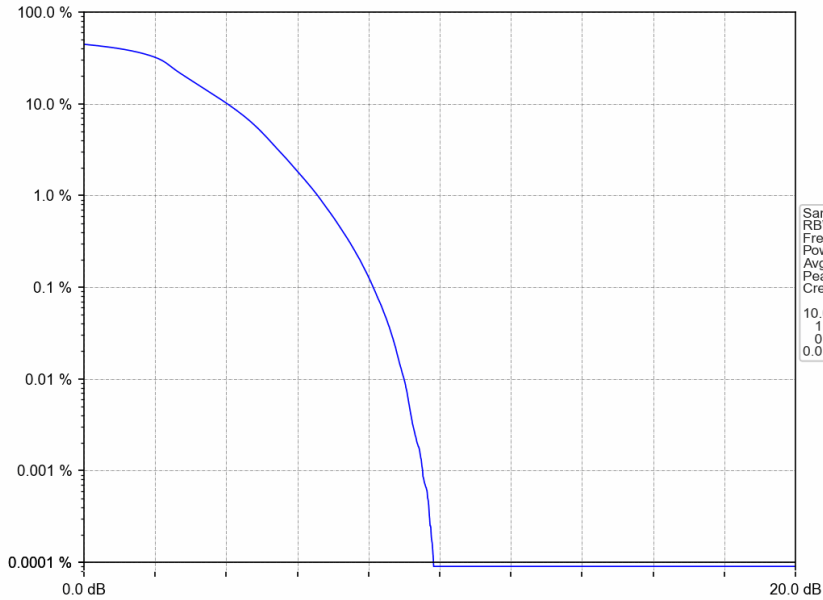


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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



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



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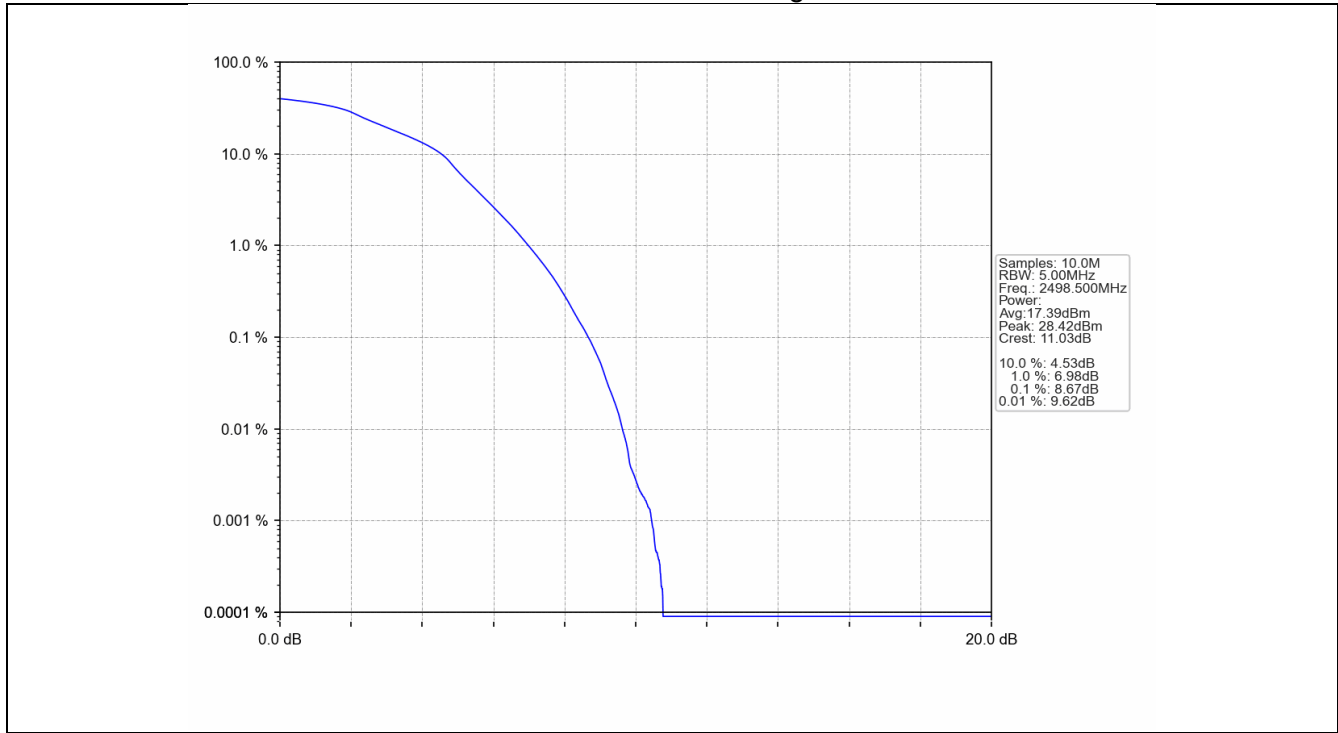
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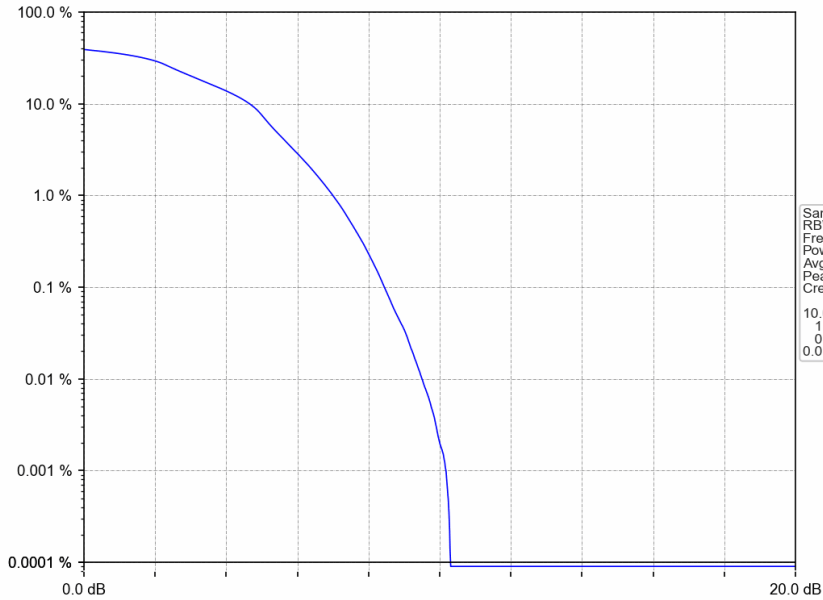
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Wireless Laboratory

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



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

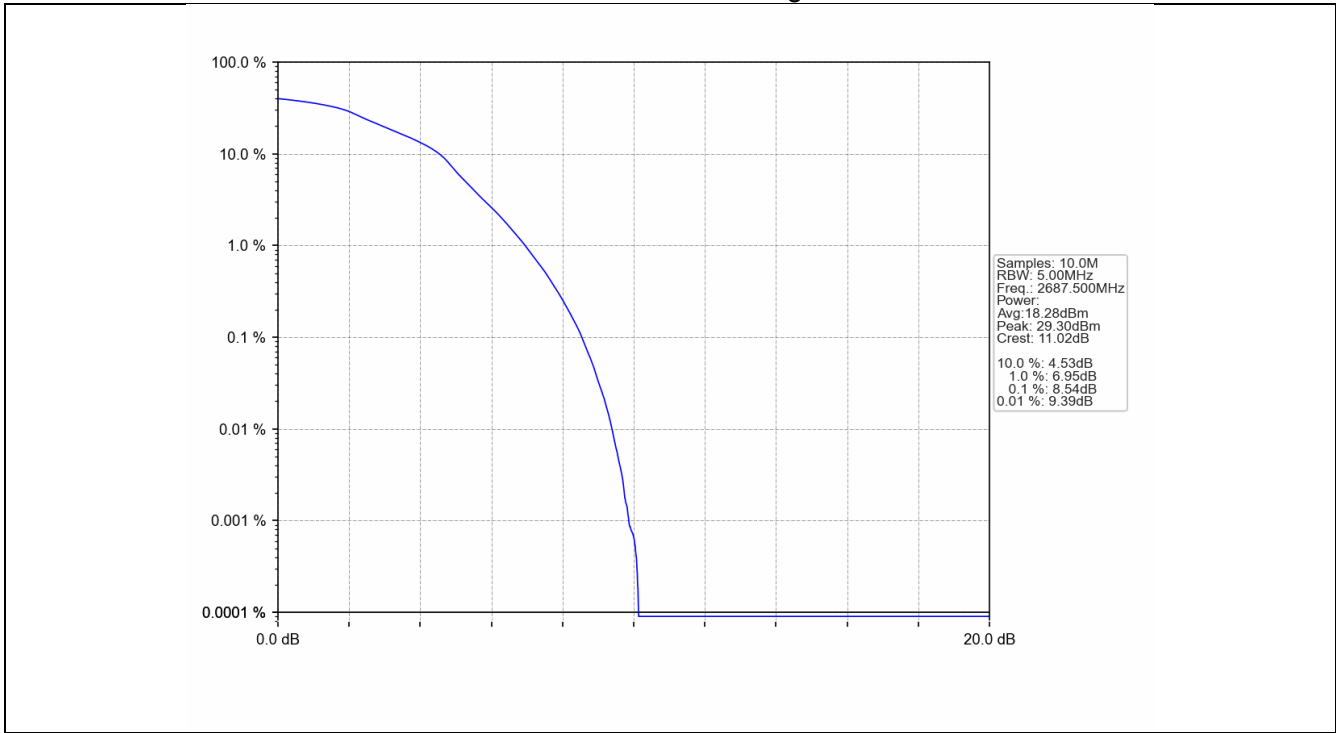


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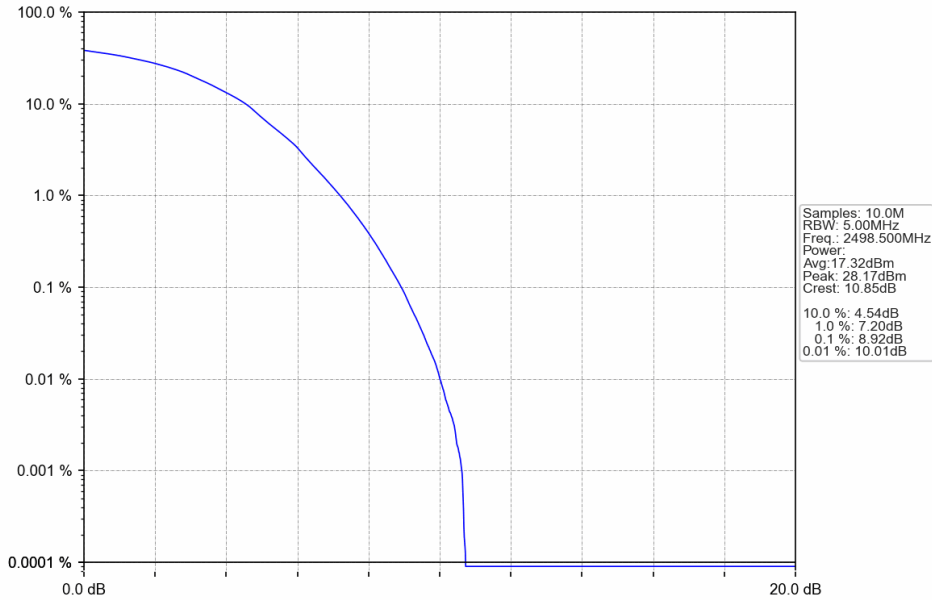
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Band41\_5MHz\_64QAM\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



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



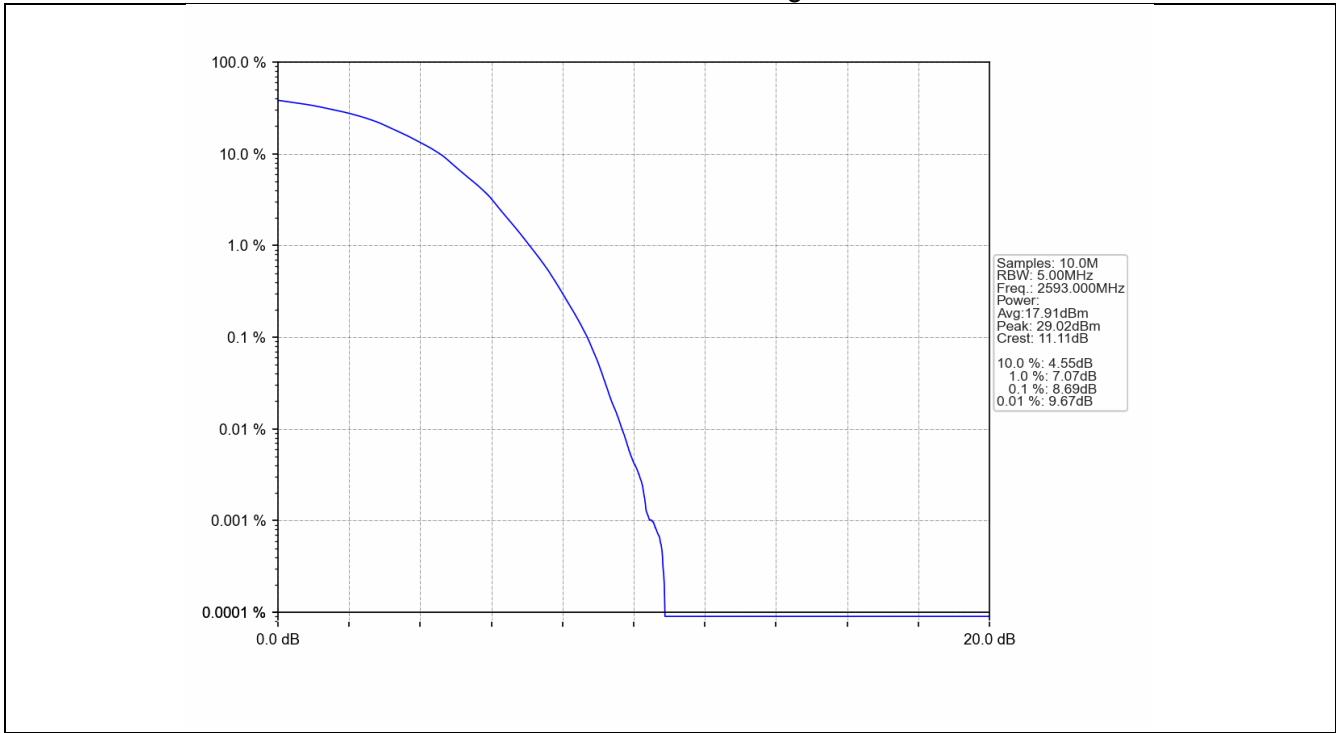
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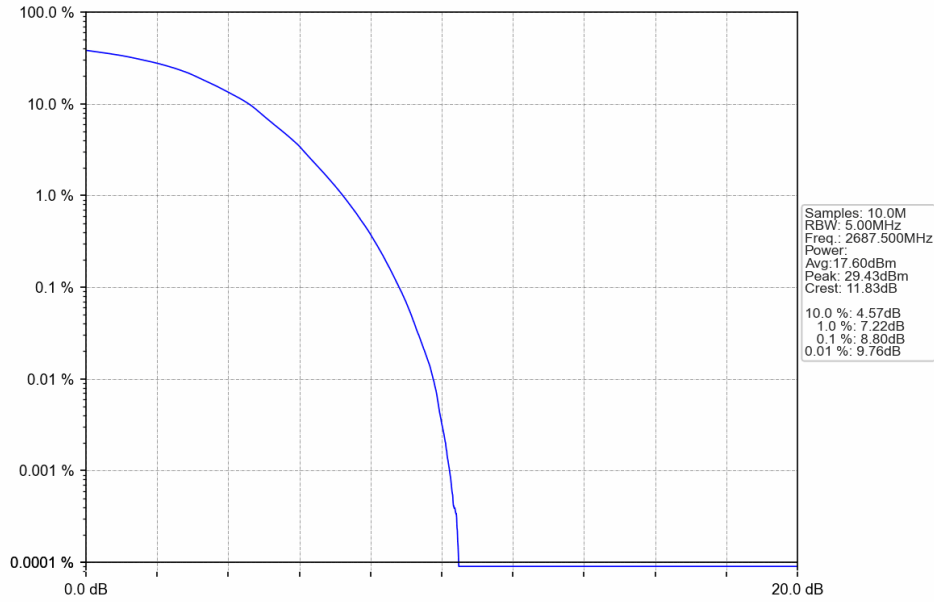


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Band41\_5MHz\_64QAM\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



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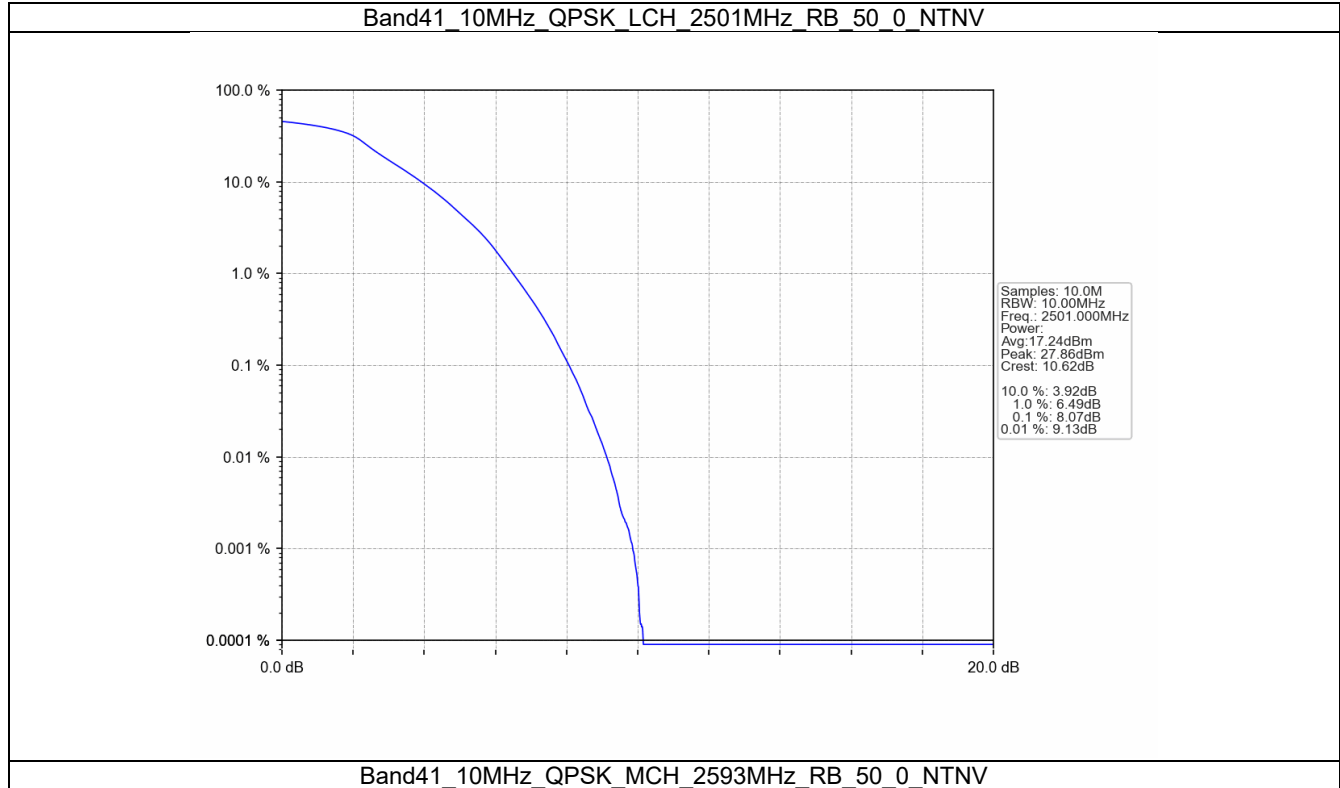
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4.2 B41\_10MHz

4.2.2 Test Graph

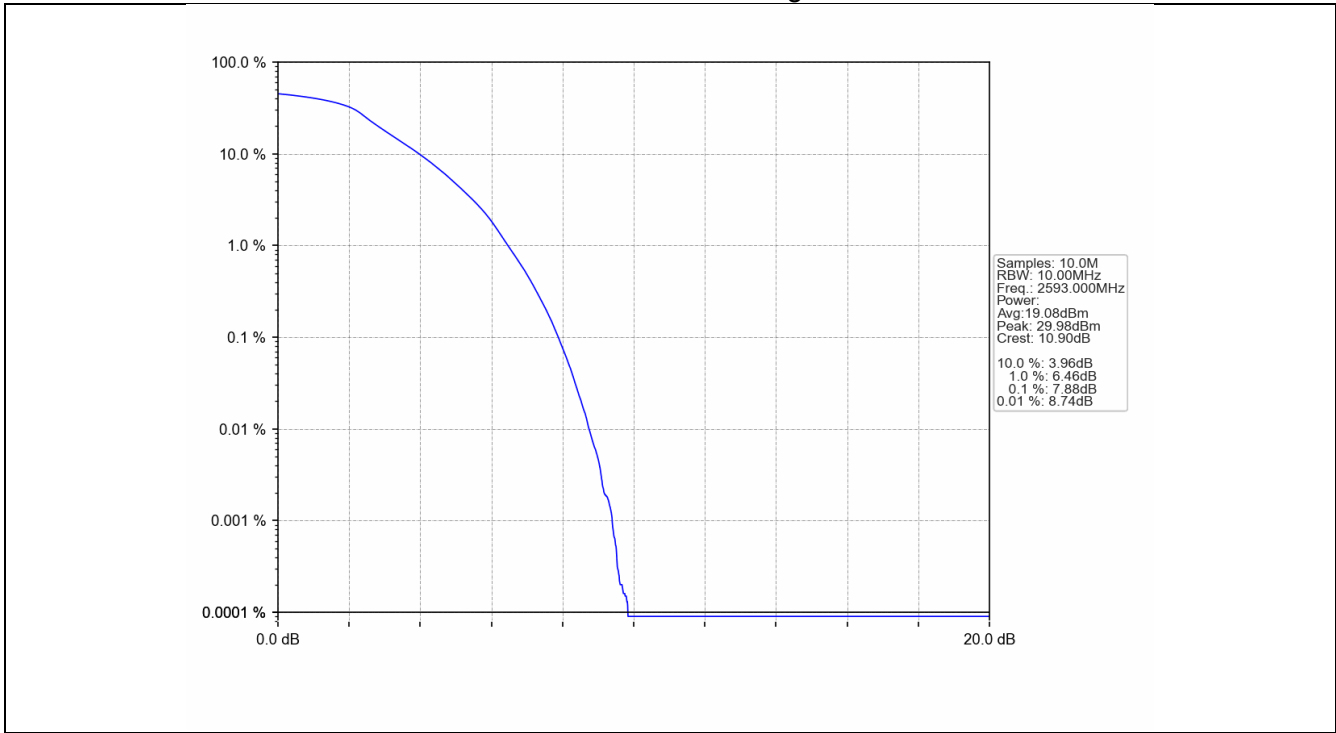


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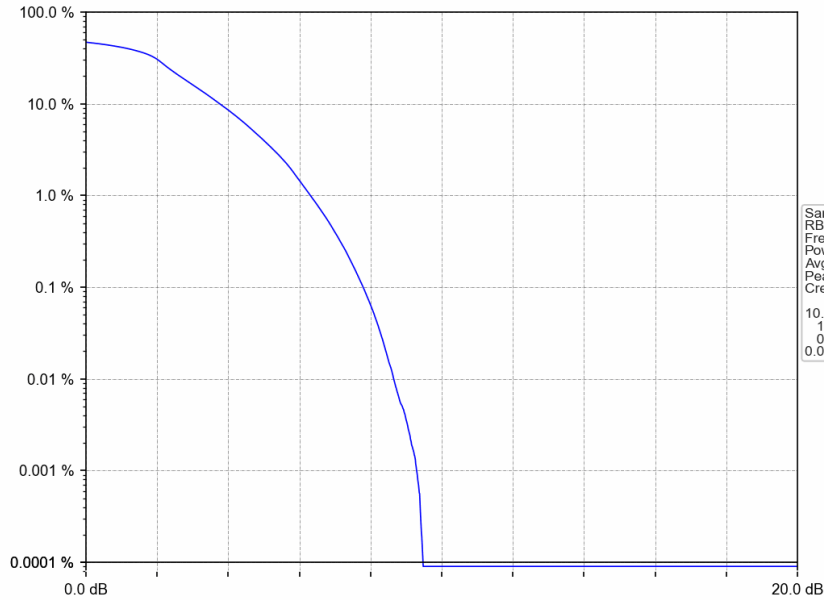


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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2685.000MHz  
 Power:  
 Avg: 18.23dBm  
 Peak: 29.24dBm  
 Crest: 11.01dB

10.0 %: 3.76dB  
 1.0 %: 6.31dB  
 0.1 %: 7.79dB  
 0.01 %: 8.65dB

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



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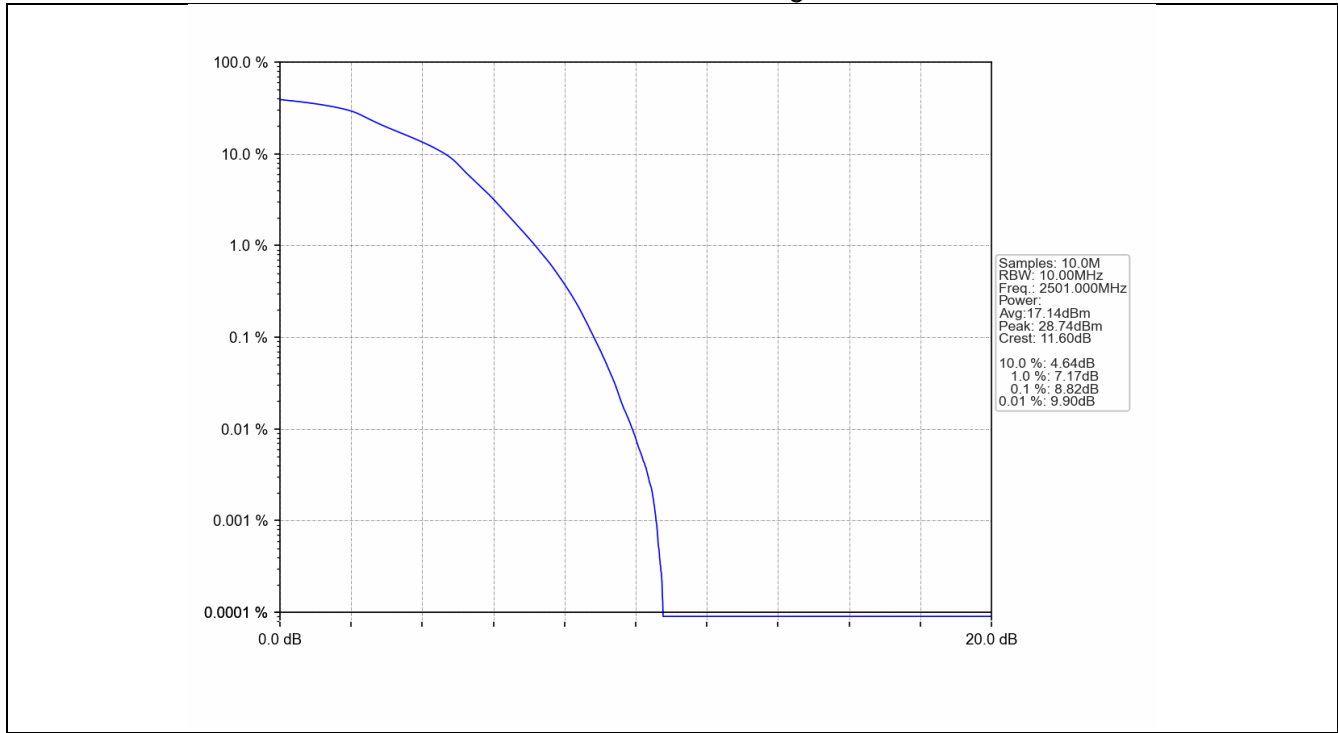
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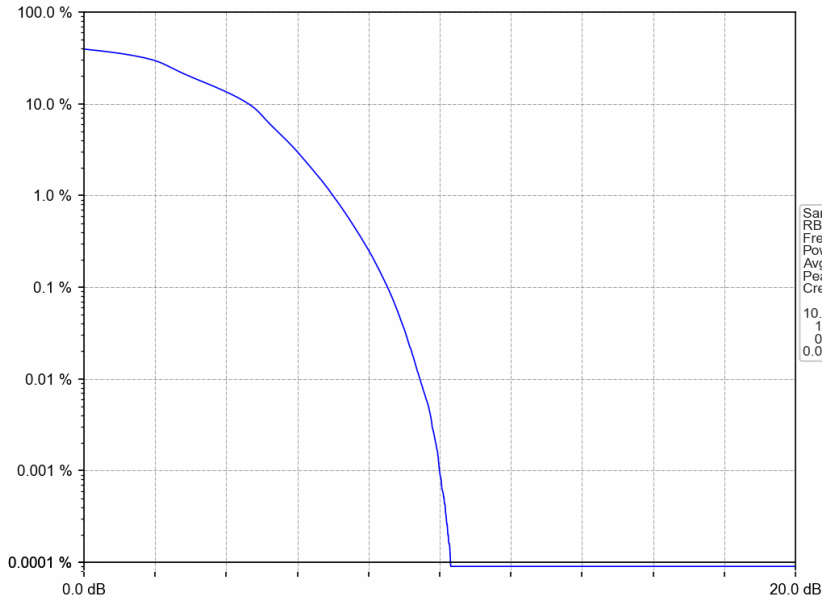


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Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2593.000MHz  
 Power:  
 Avg: 18.79dBm  
 Peak: 31.92dBm  
 Crest: 13.13dB

10.0 %: 4.62dB  
 1.0 %: 7.00dB  
 0.1 %: 8.53dB  
 0.01 %: 9.44dB

Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



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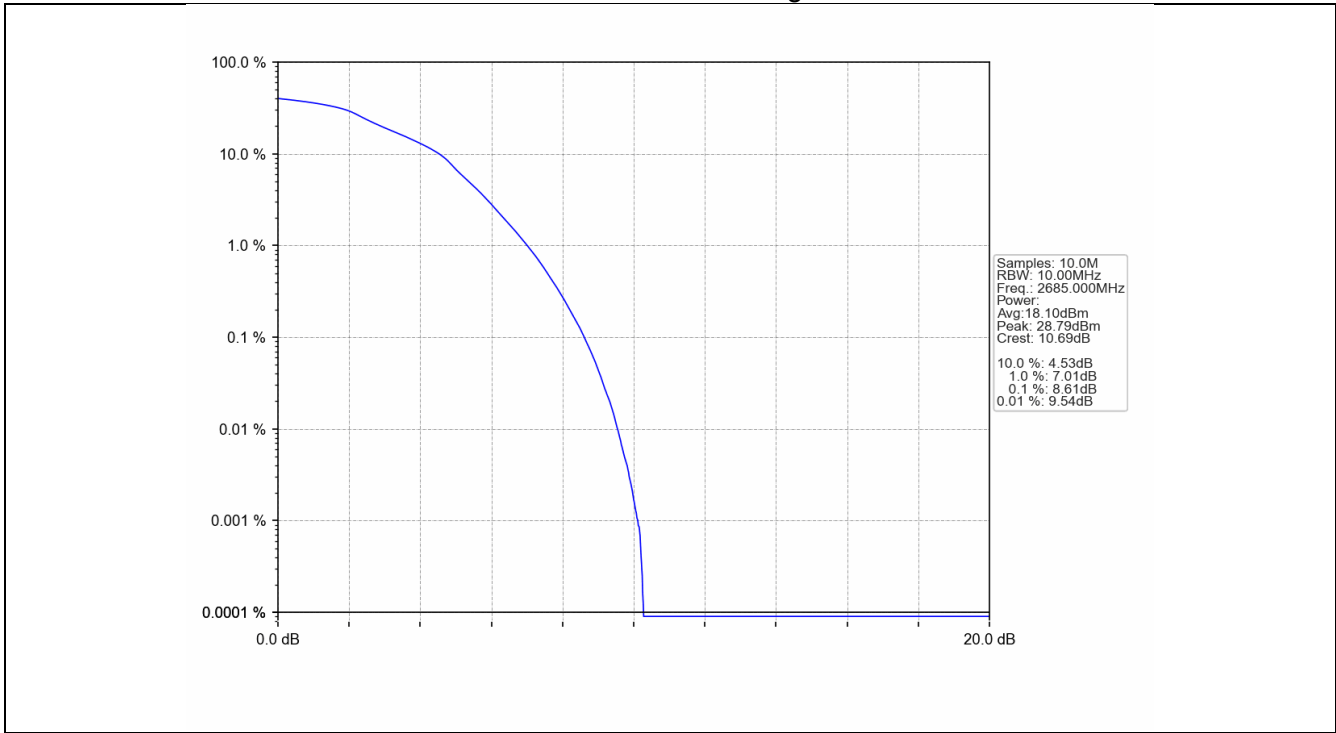
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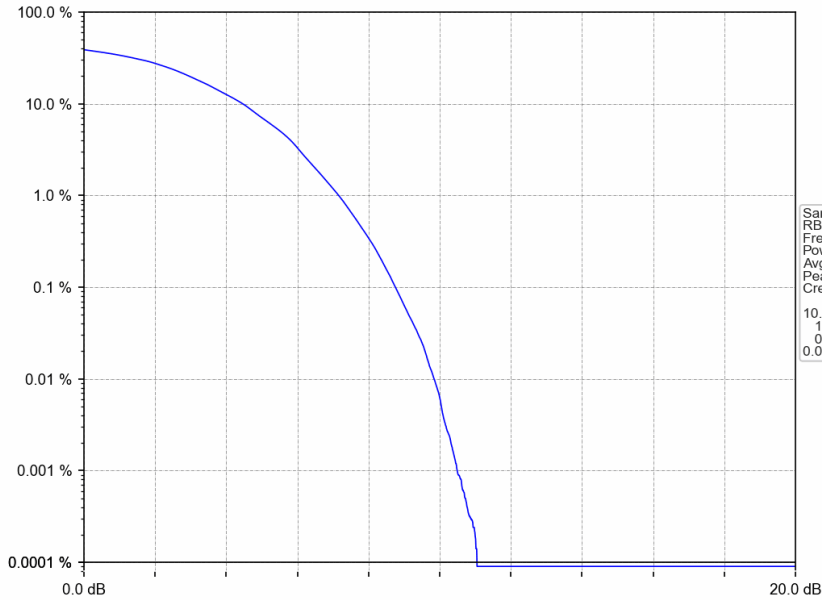
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Band41 10MHz 64QAM LCH 2501MHz RB 50 0 NTN



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2501.000MHz  
 Power:  
 Avg: 17.38dBm  
 Peak: 29.10dBm  
 Crest: 11.72dB  
 10.0 %: 4.46dB  
 1.0 %: 7.16dB  
 0.1 %: 8.75dB  
 0.01 %: 9.84dB

Band41 10MHz 64QAM MCH 2593MHz RB 50 0 NTN



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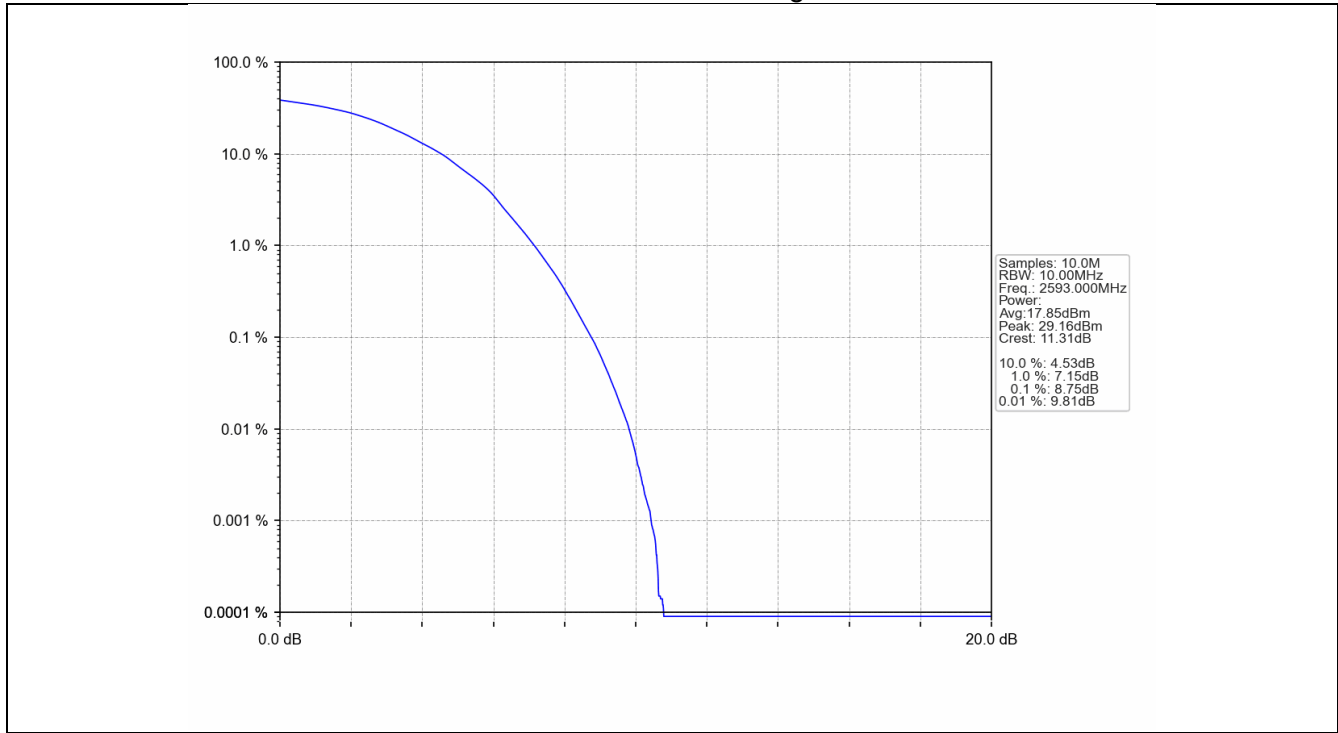
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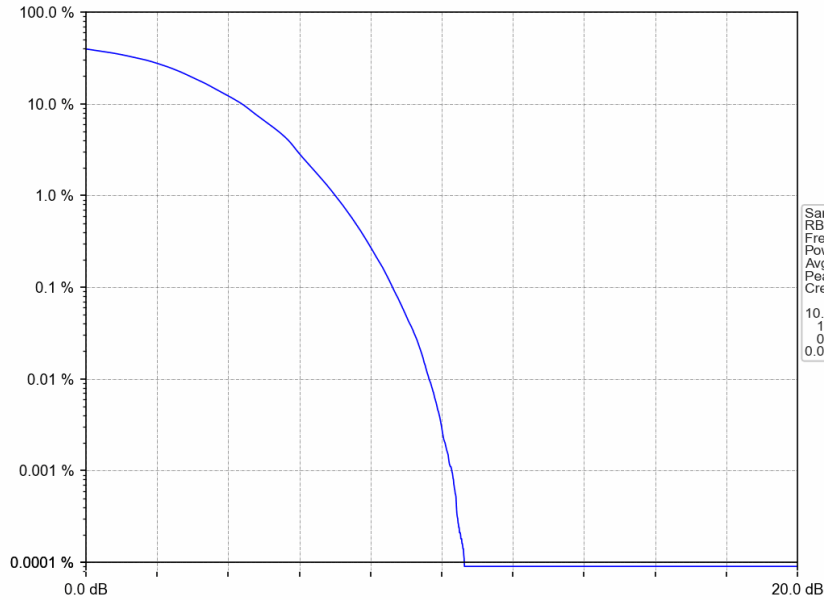


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Band41 10MHz\_64QAM\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 2685.000MHz  
 Power:  
 Avg: 17.77dBm  
 Peak: 28.68dBm  
 Crest: 10.91dB

10.0 %: 4.38dB  
 1.0 %: 7.00dB  
 0.1 %: 8.62dB  
 0.01 %: 9.64dB



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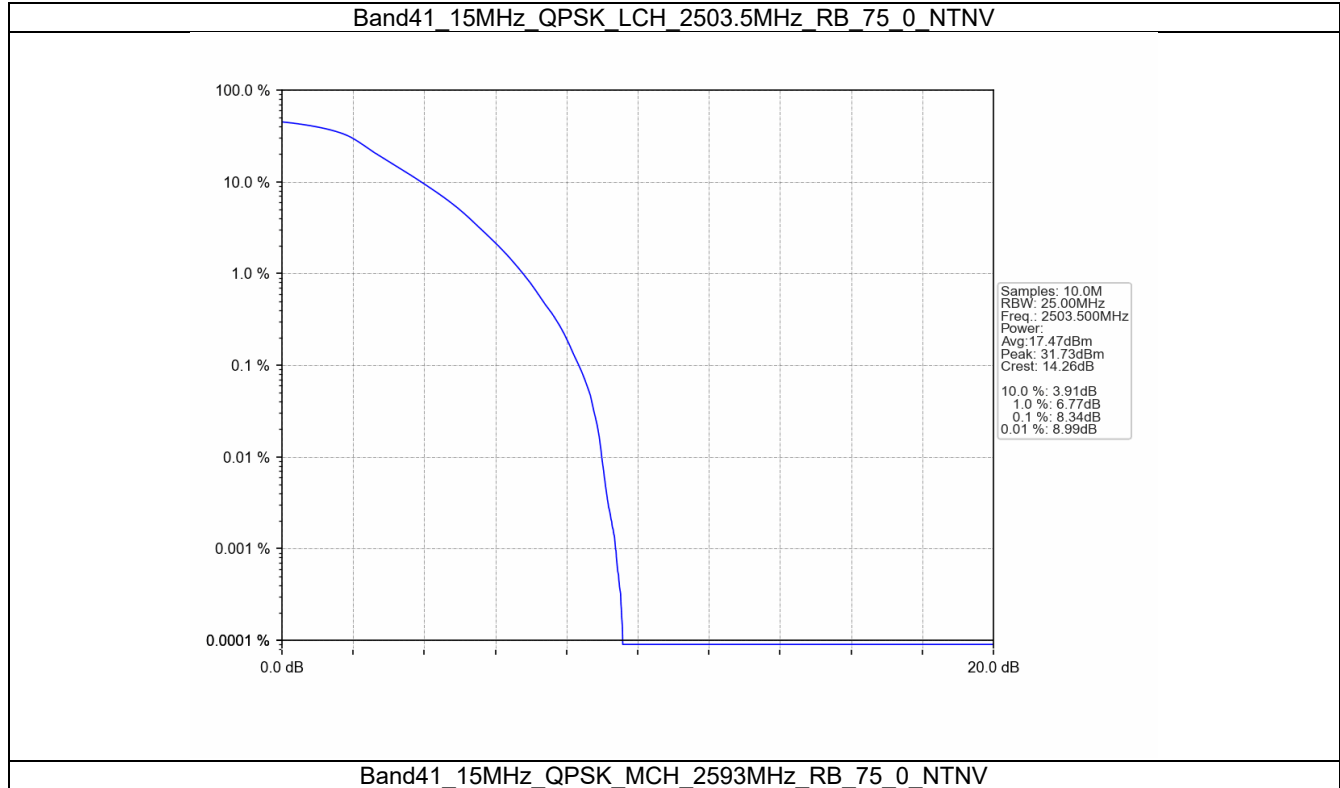
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4.3 B41\_15MHz

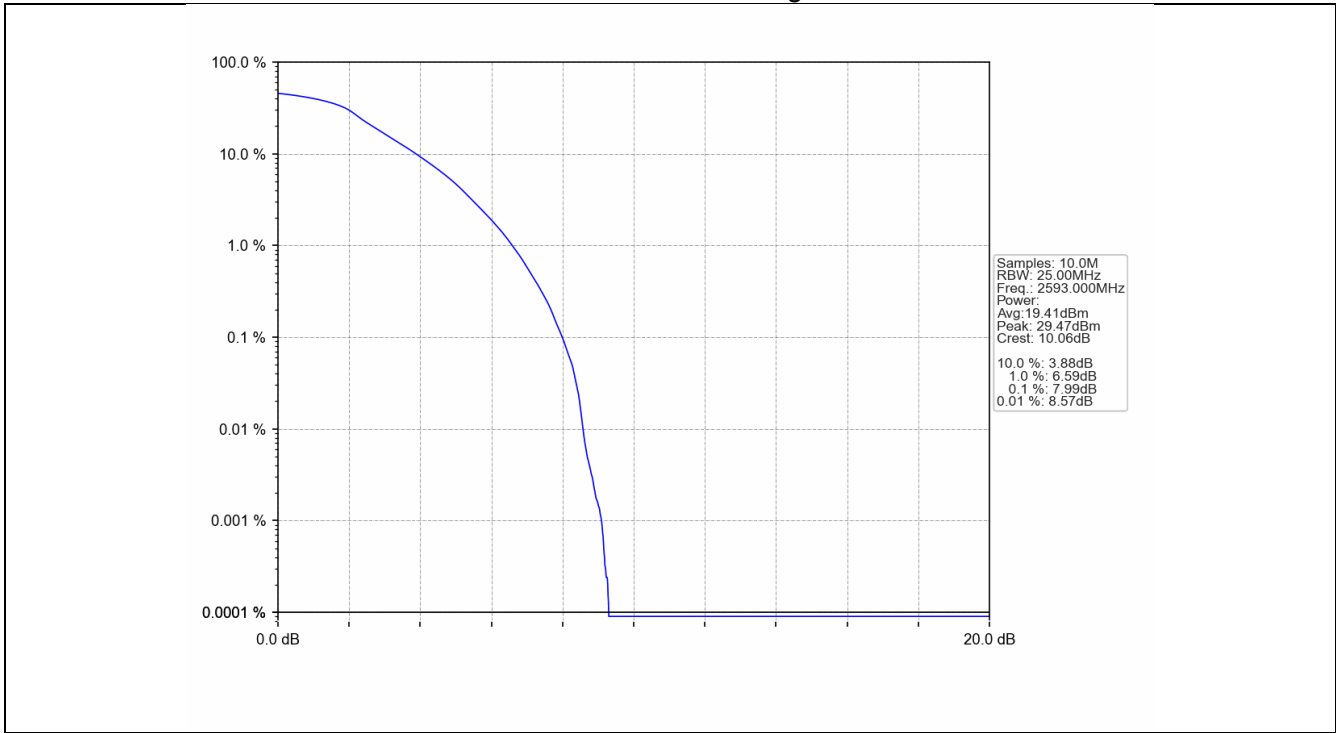
4.3.2 Test Graph



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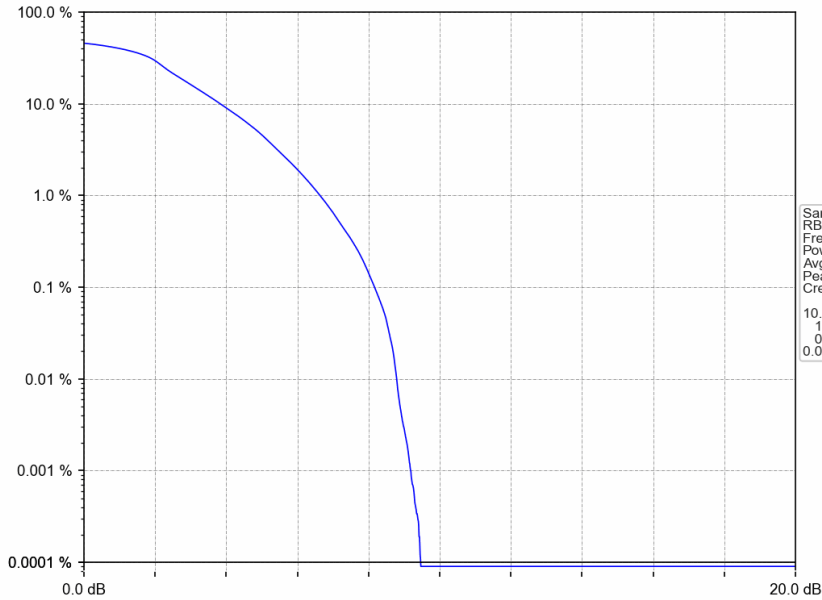


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Band41\_15MHz\_QPSK\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2682.500MHz  
 Power:  
 Avg: 18.38dBm  
 Peak: 28.50dBm  
 Crest: 10.12dB

10.0 %: 3.83dB  
 1.0 %: 6.63dB  
 0.1 %: 8.17dB  
 0.01 %: 8.79dB

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



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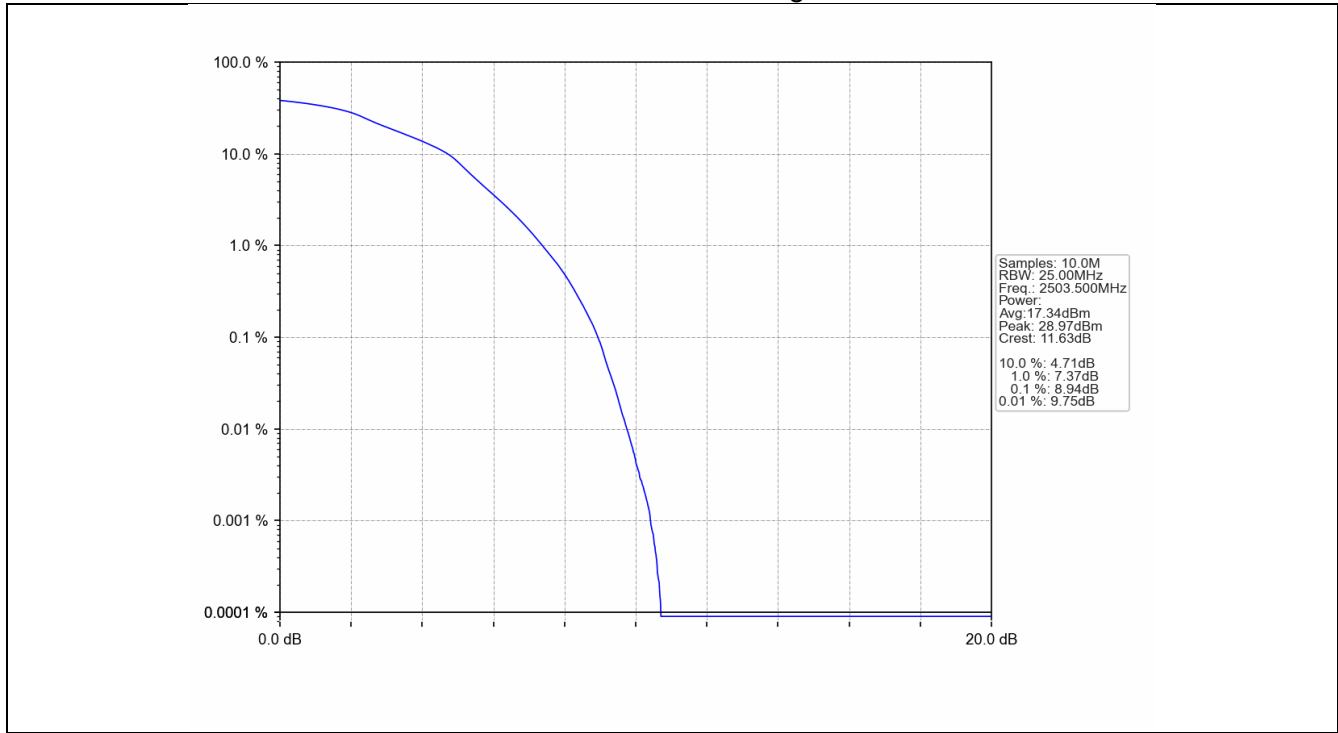
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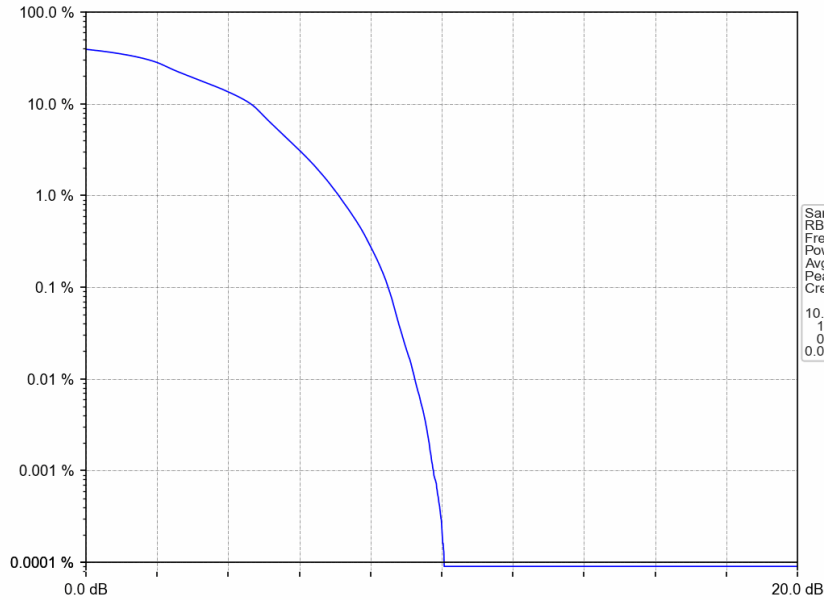
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Band41\_15MHz\_16QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV



Band41\_15MHz\_16QAM\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



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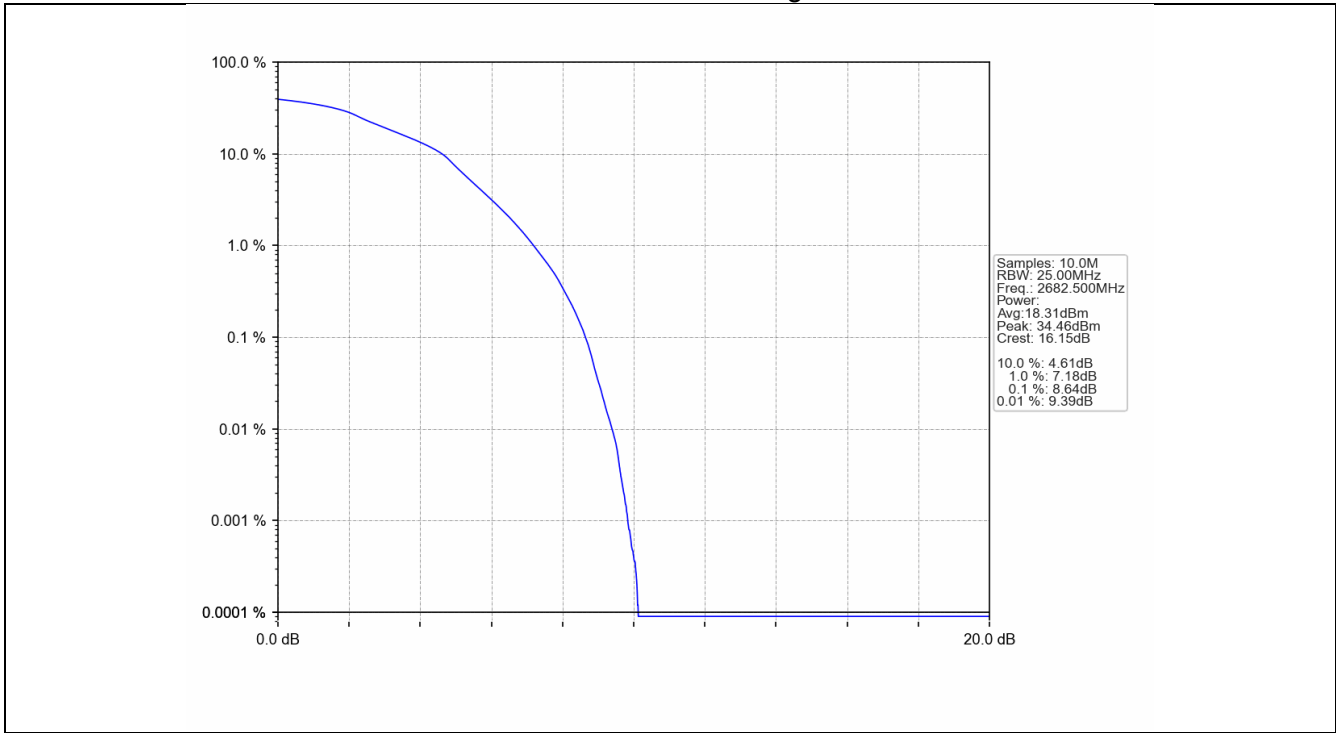
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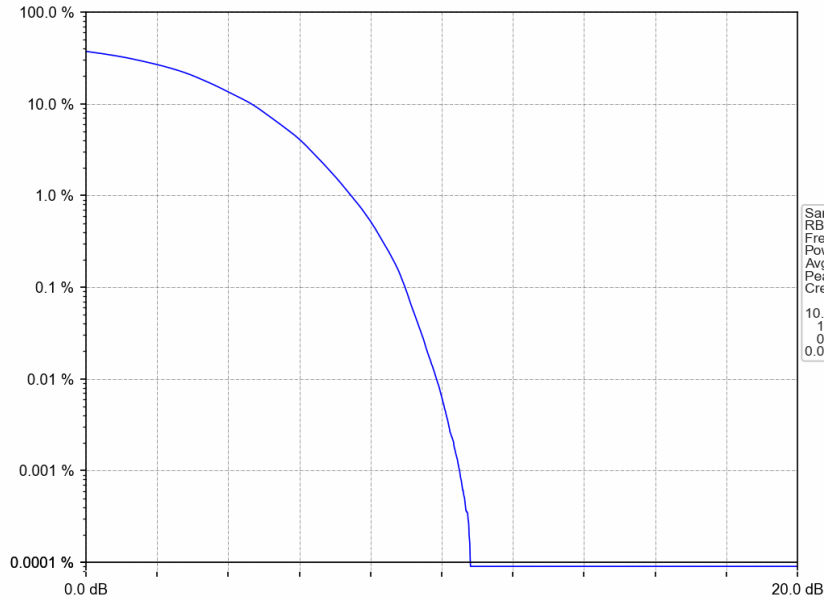
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Band41\_15MHz\_64QAM\_LCH\_2503.5MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2503.500MHz  
 Power:  
 Avg: 17.38dBm  
 Peak: 31.50dBm  
 Crest: 14.12dB

10.0 %: 4.65dB  
 1.0 %: 7.45dB  
 0.1 %: 8.97dB  
 0.01 %: 9.85dB

Band41\_15MHz\_64QAM\_MCH\_2593MHz\_RB\_75\_0\_NTNV

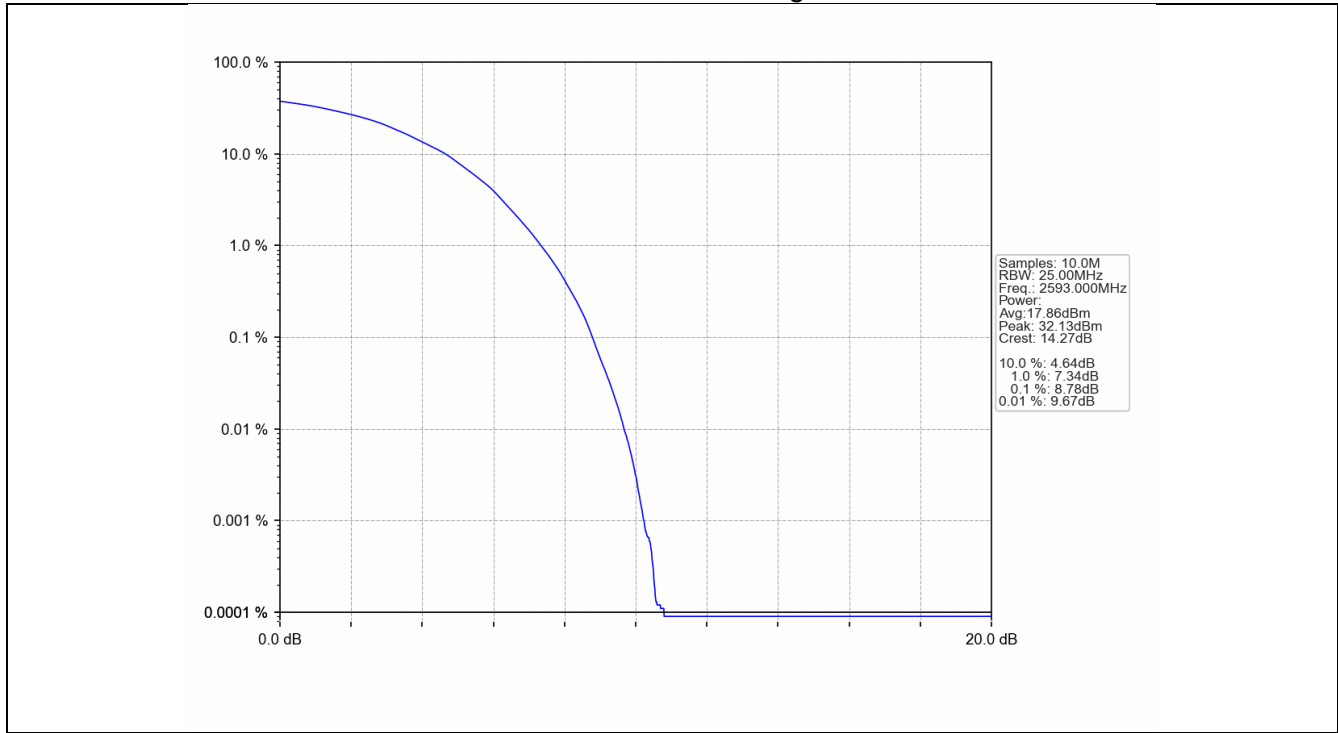


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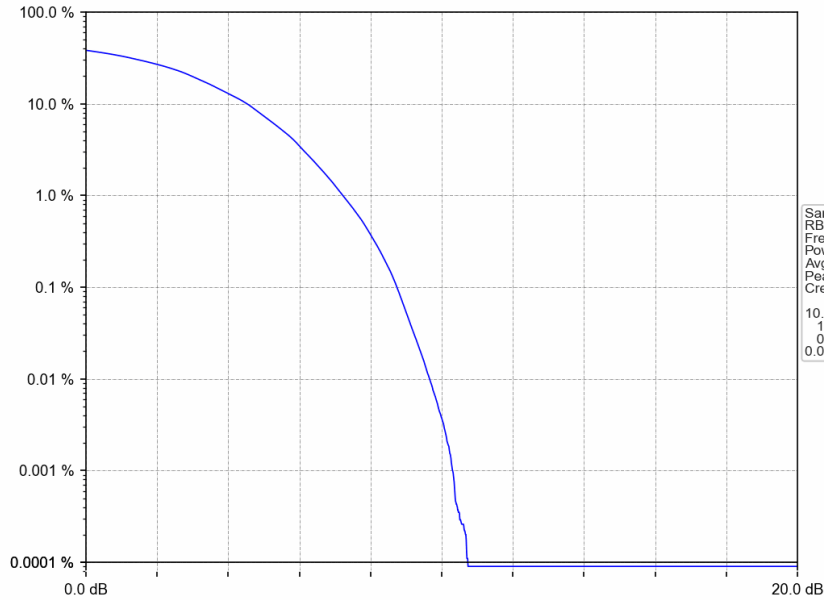


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Band41\_15MHz\_64QAM\_HCH\_2682.5MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2682.500MHz  
 Power:  
 Avg: 17.67dBm  
 Peak: 28.71dBm  
 Crest: 11.04dB

10.0 %: 4.53dB  
 1.0 %: 7.22dB  
 0.1 %: 8.74dB  
 0.01 %: 9.66dB



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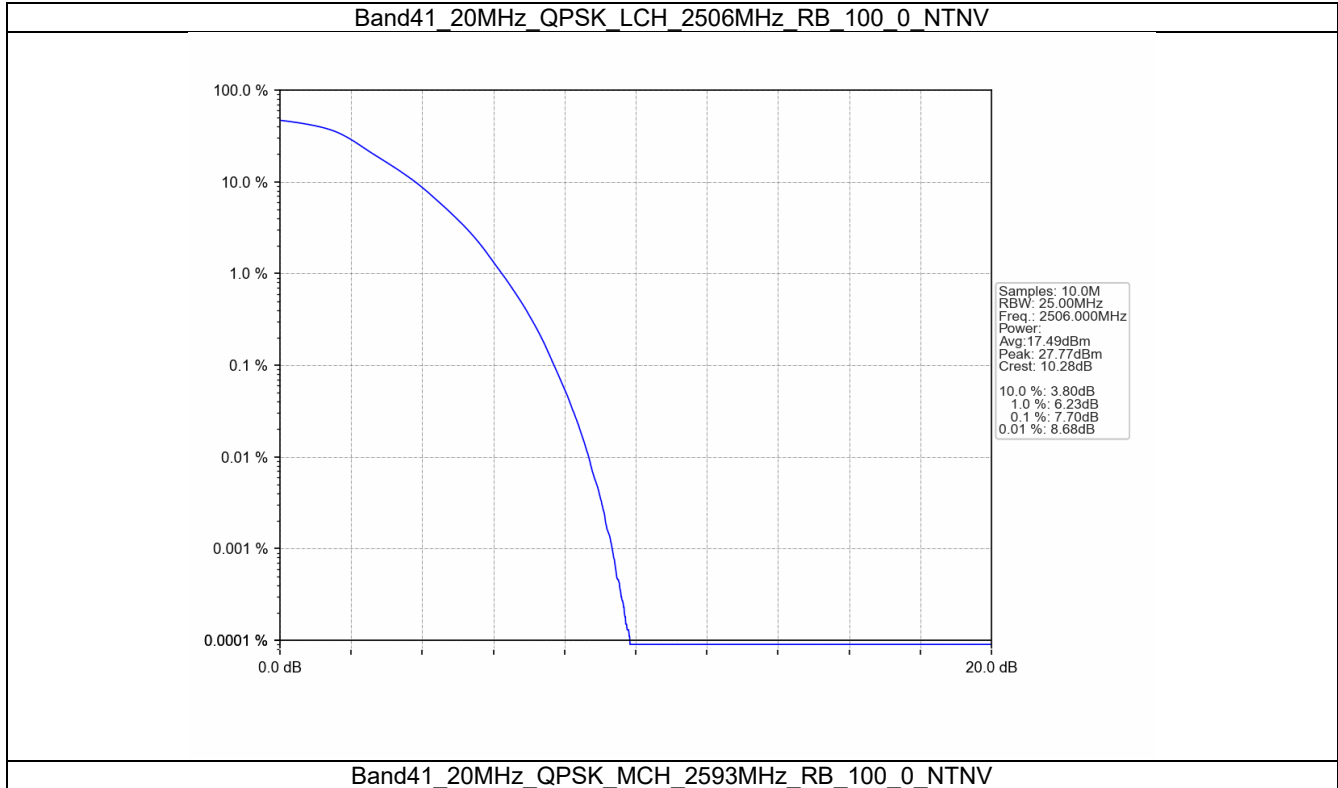
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4.4 B41\_20MHz

4.4.2 Test Graph



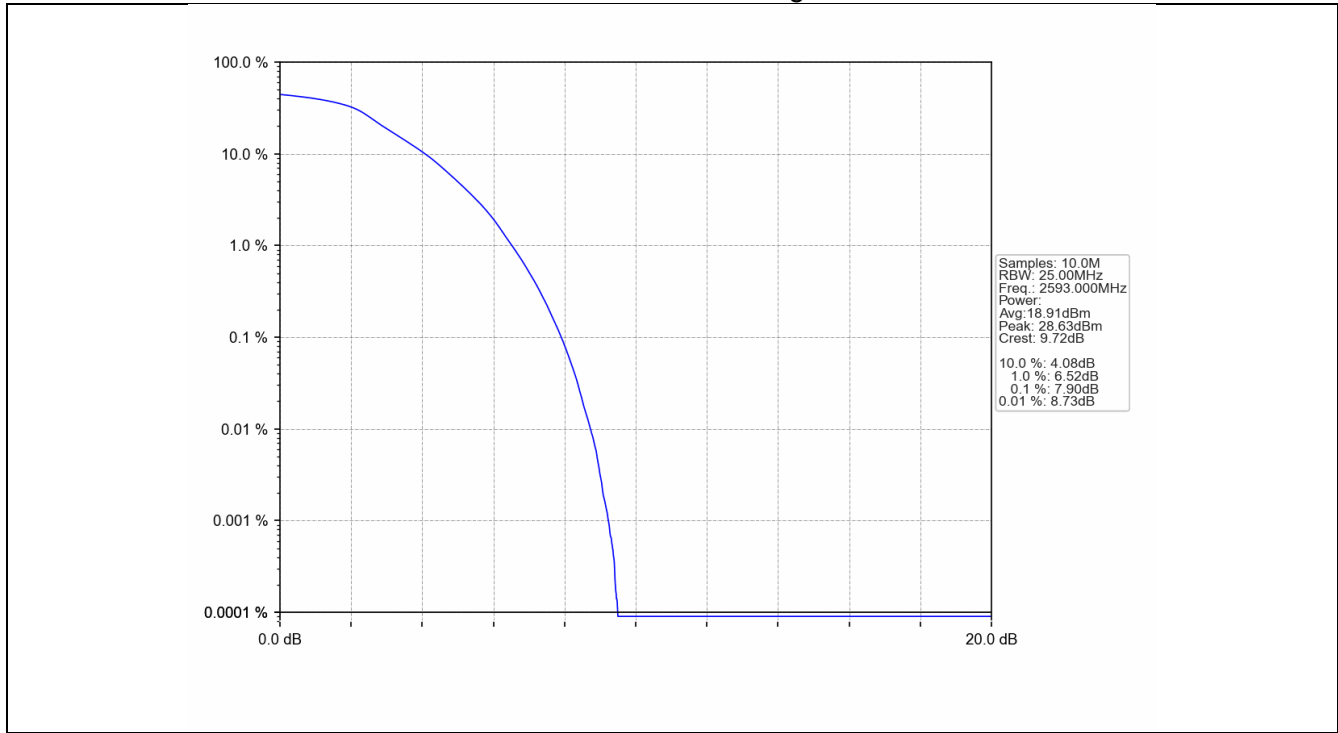
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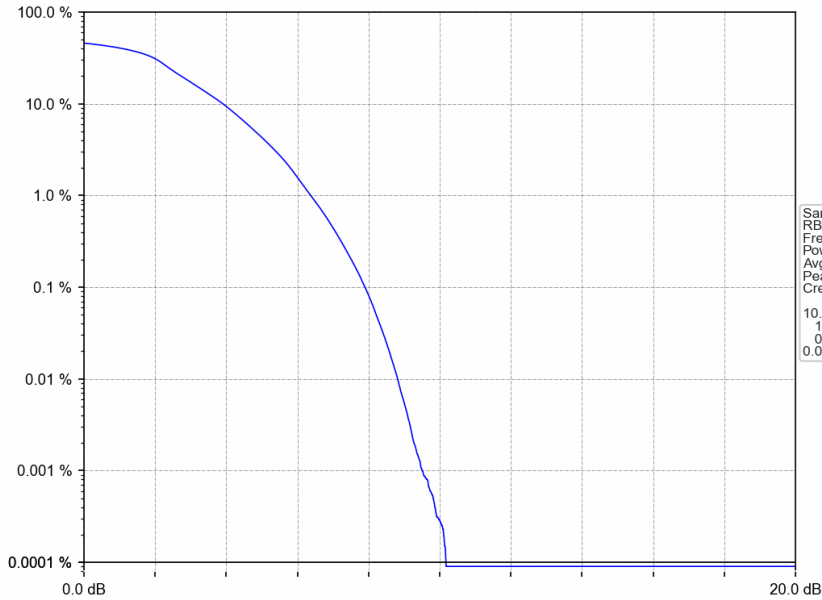
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Band41 20MHz\_QPSK\_HCH\_2680MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2680.000MHz  
 Power:  
 Avg: 18.11dBm  
 Peak: 28.55dBm  
 Crest: 10.44dB

10.0 %: 3.90dB  
 1.0 %: 6.38dB  
 0.1 %: 7.90dB  
 0.01 %: 8.82dB

Band41 20MHz\_16QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV

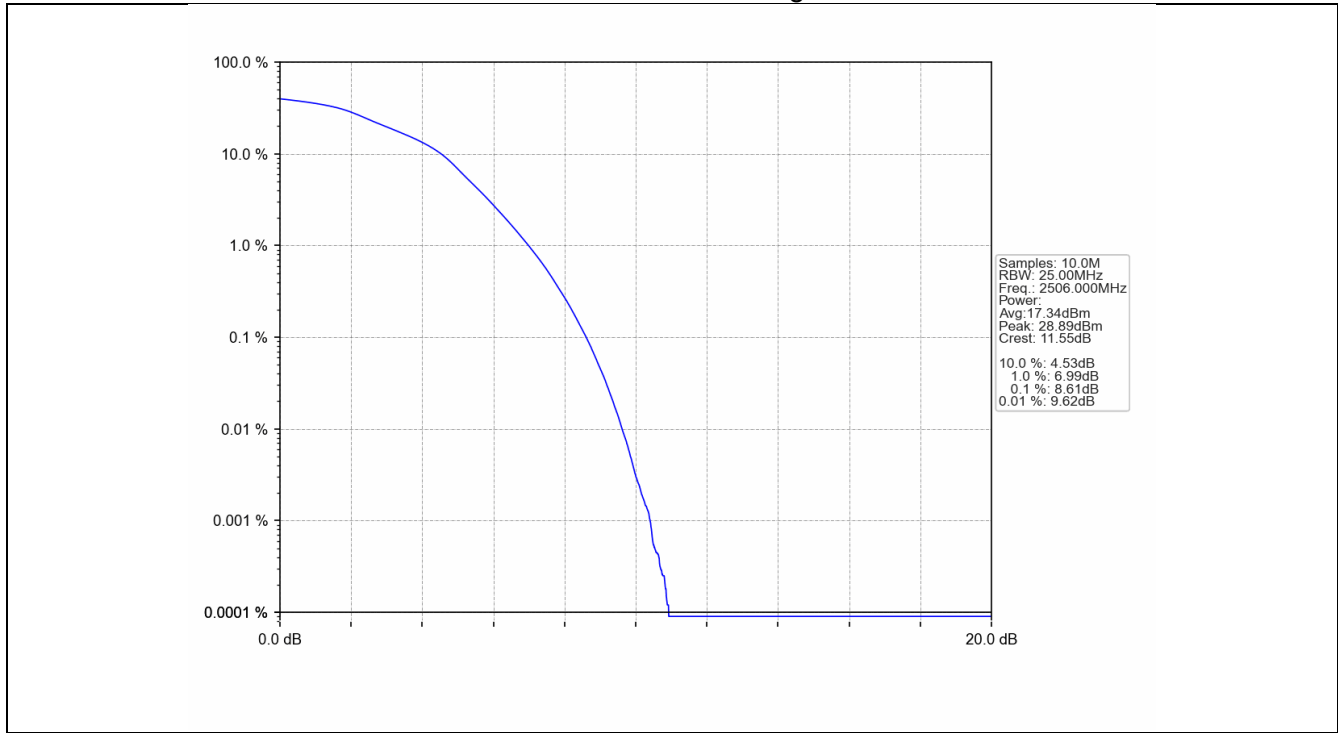


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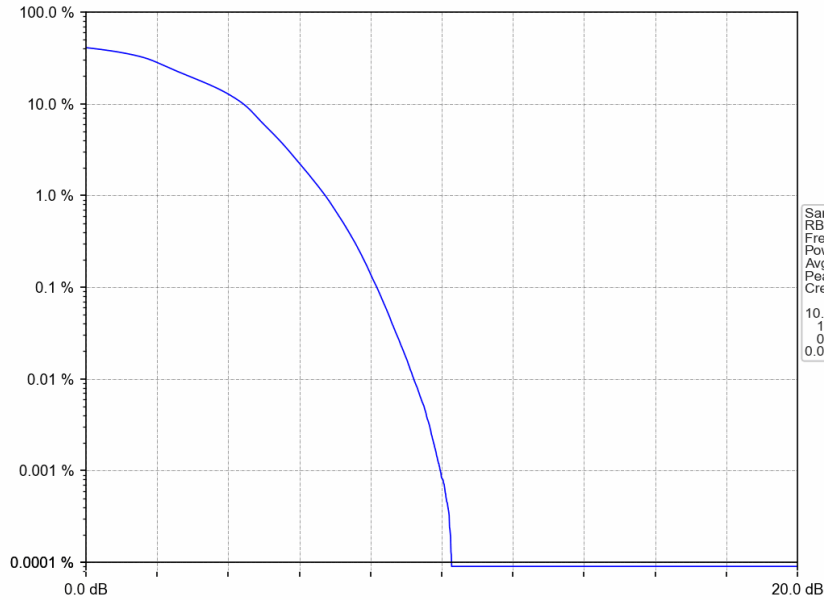
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Band41\_20MHz\_16QAM MCH\_2593MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2593.000MHz  
 Power:  
 Avg: 19.15dBm  
 Peak: 30.39dBm  
 Crest: 11.24dB

10.0 %: 4.42dB  
 1.0 %: 6.72dB  
 0.1 %: 8.18dB  
 0.01 %: 9.21dB

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

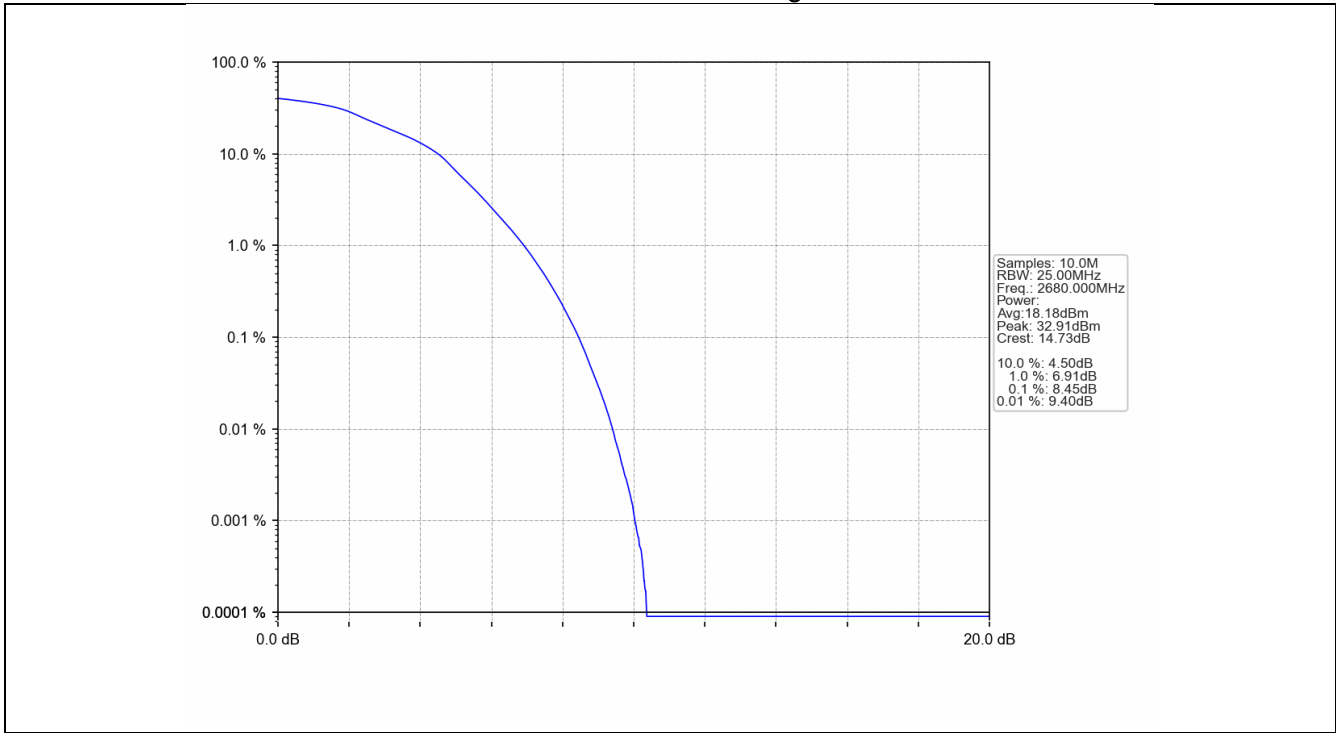


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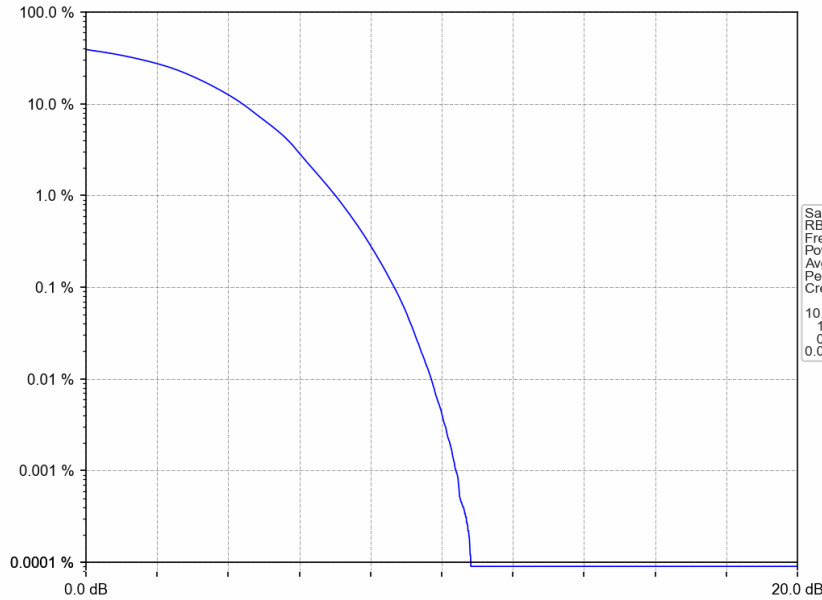
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Band41\_20MHz\_64QAM\_LCH\_2506MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2506.000MHz  
 Power:  
 Avg: 17.48dBm  
 Peak: 35.55dBm  
 Crest: 18.07dB

10.0 %: 4.40dB  
 1.0 %: 7.01dB  
 0.1 %: 8.66dB  
 0.01 %: 9.71dB

Band41\_20MHz\_64QAM\_MCH\_2593MHz\_RB\_100\_0\_NTNV



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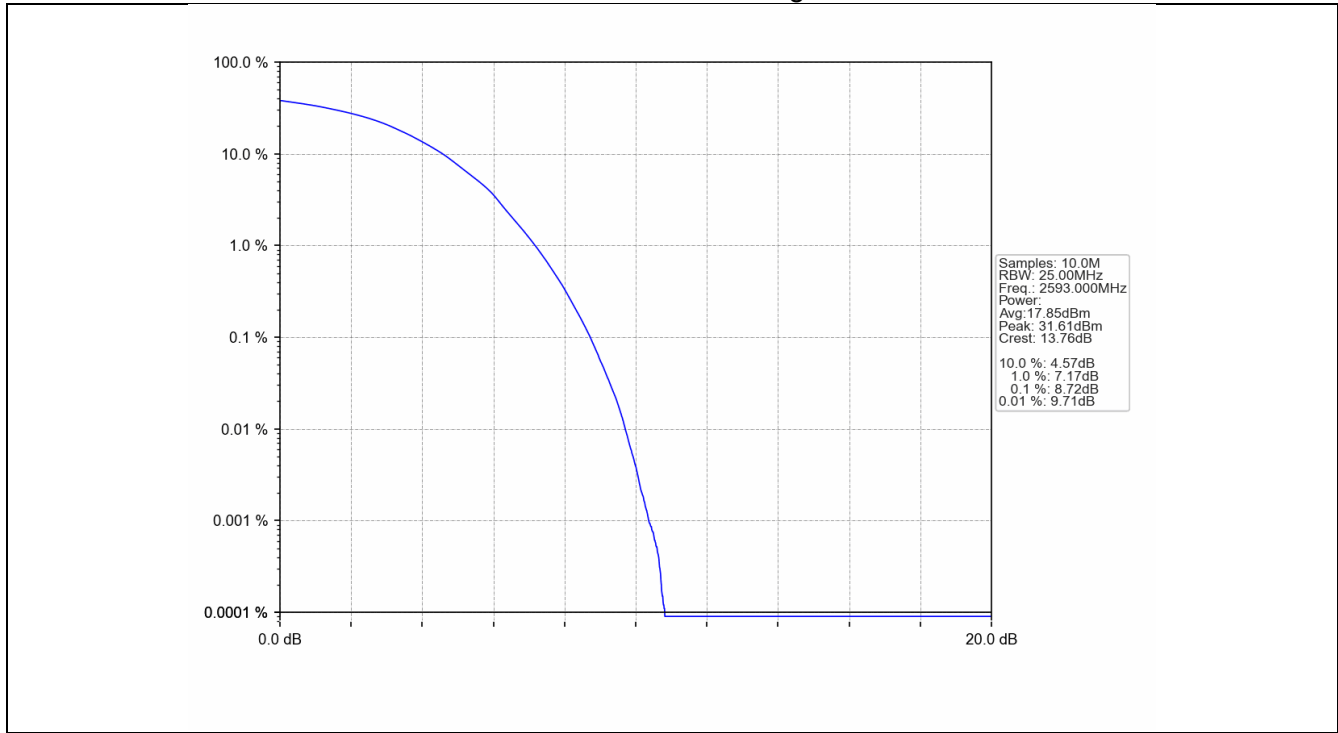
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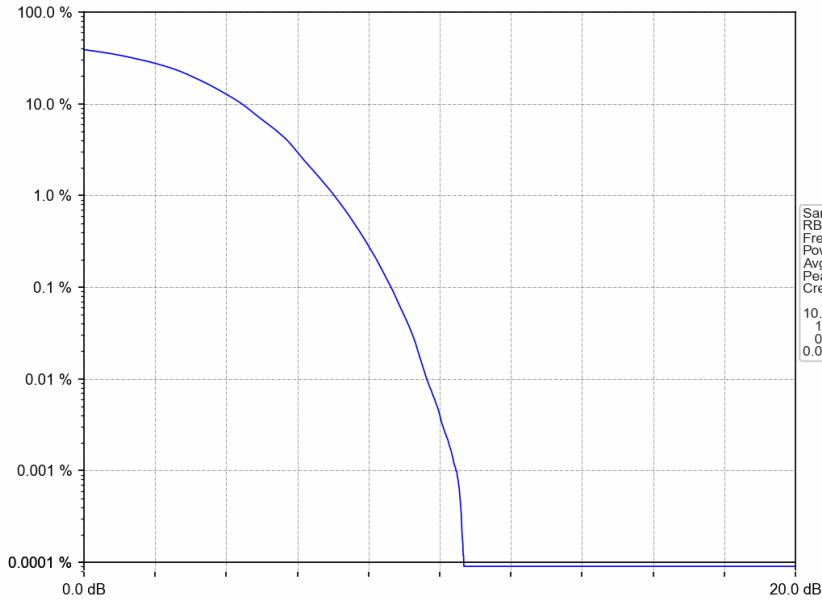


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Rev.: 01

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



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 2680.000MHz  
 Power:  
 Avg: 17.69dBm  
 Peak: 28.43dBm  
 Crest: 10.74dB

10.0 %: 4.43dB  
 1.0 %: 7.03dB  
 0.1 %: 8.63dB  
 0.01 %: 9.63dB



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## 5. Spurious Emission & Band Edges

### 5.1 B41\_5MHz

#### 5.1.1 Test Result

Band: 41 / Bandwidth: 5MHz / NTN						
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
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

### 5.2 B41\_10MHz

#### 5.2.1 Test Result

Band: 41 / Bandwidth: 10MHz / NTN						
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
	2593	1	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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5.3 B41\_15MHz

5.3.1 Test Result

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.4 B41\_20MHz

5.4.1 Test Result

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2506	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2680	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



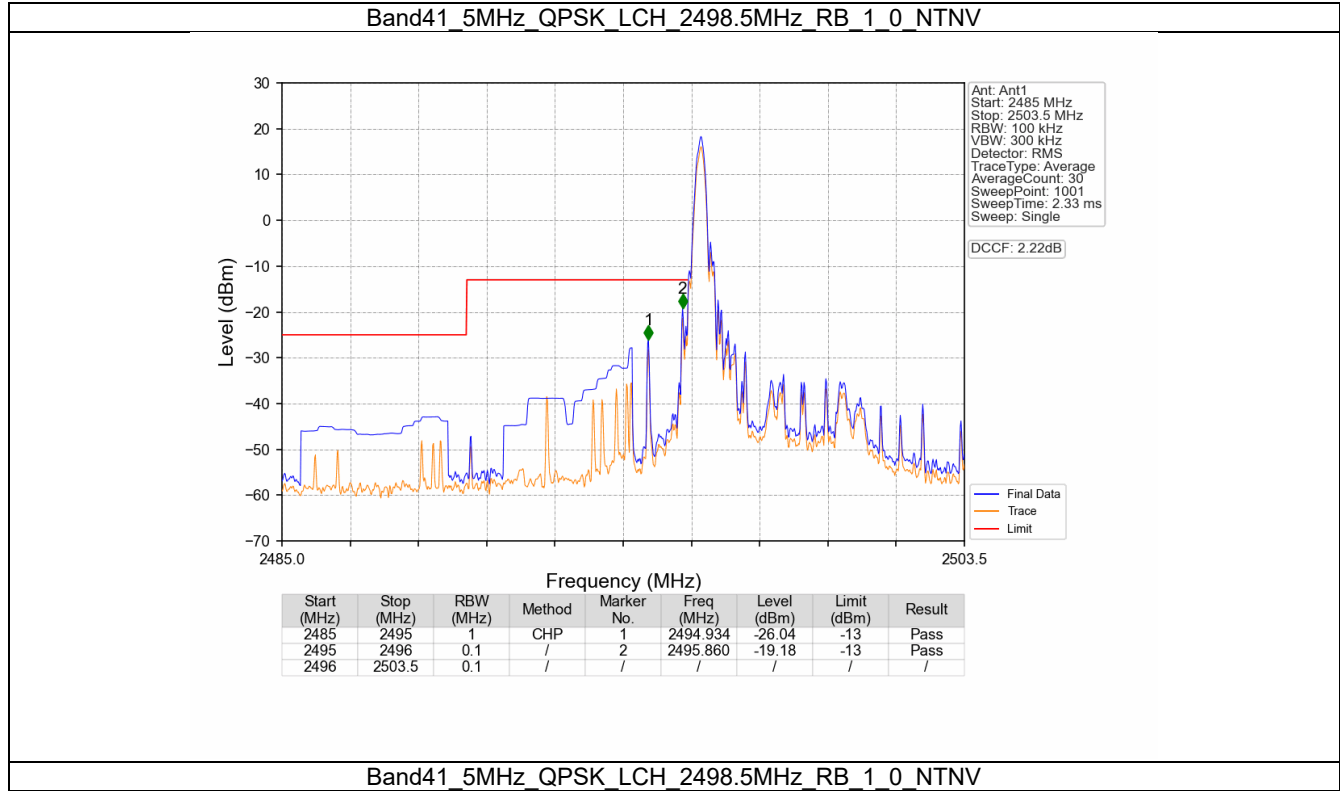
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5.1 B41\_5MHz

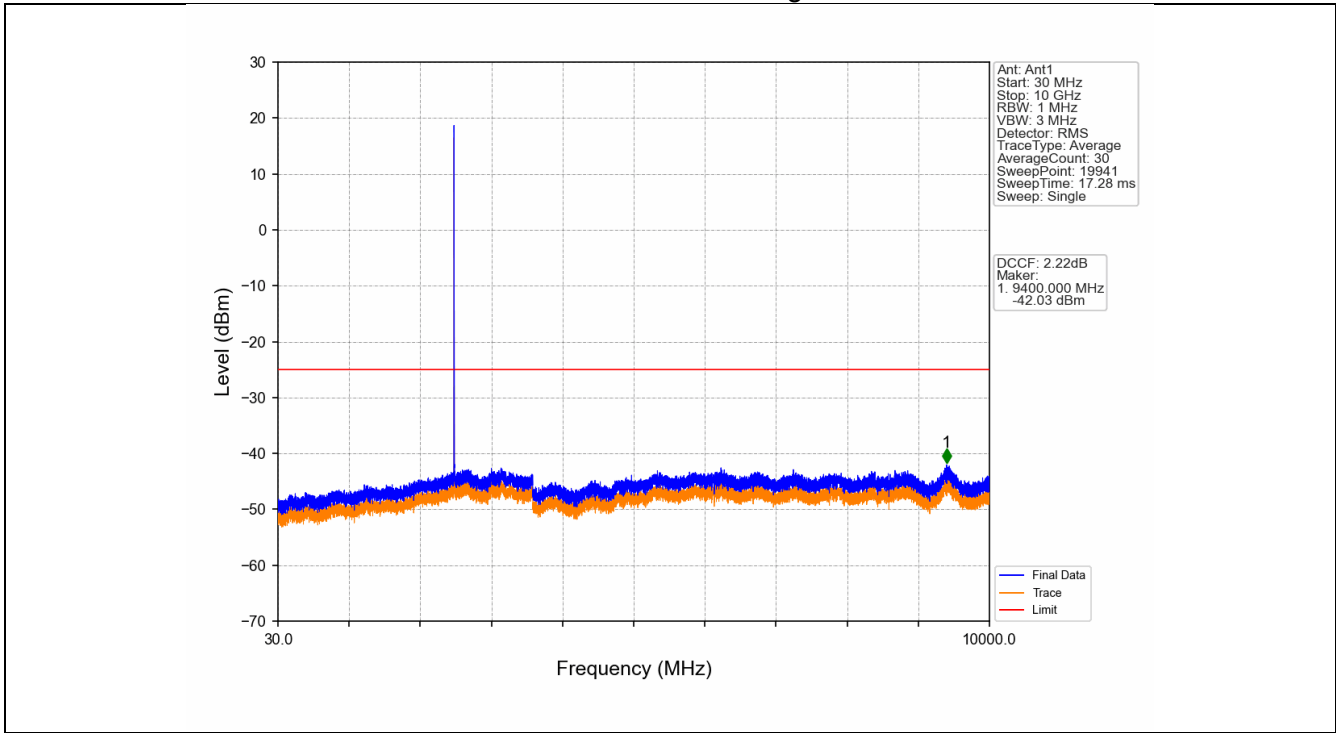
5.1.2 Test Graph



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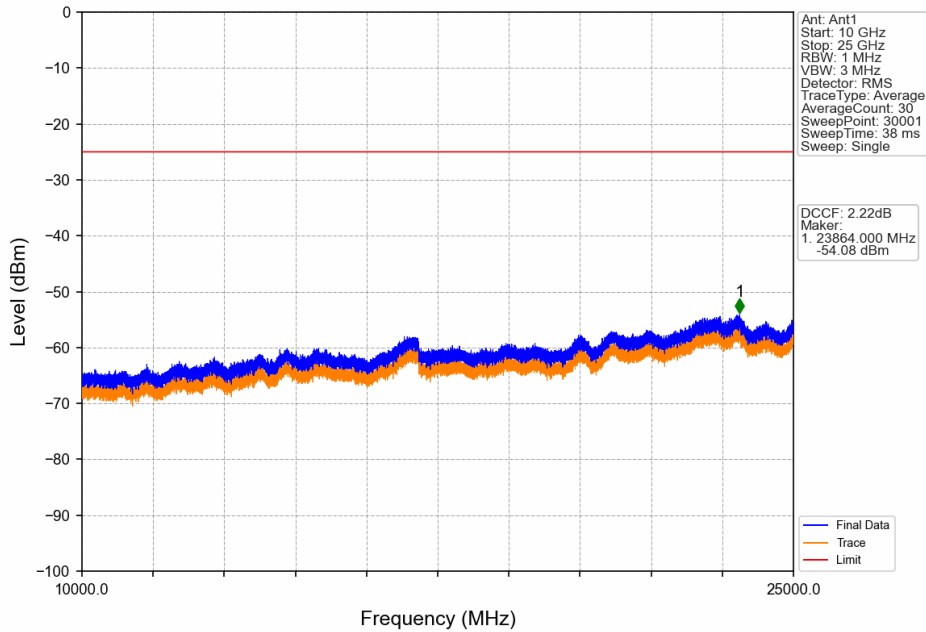


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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_1\_0\_NTNV



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

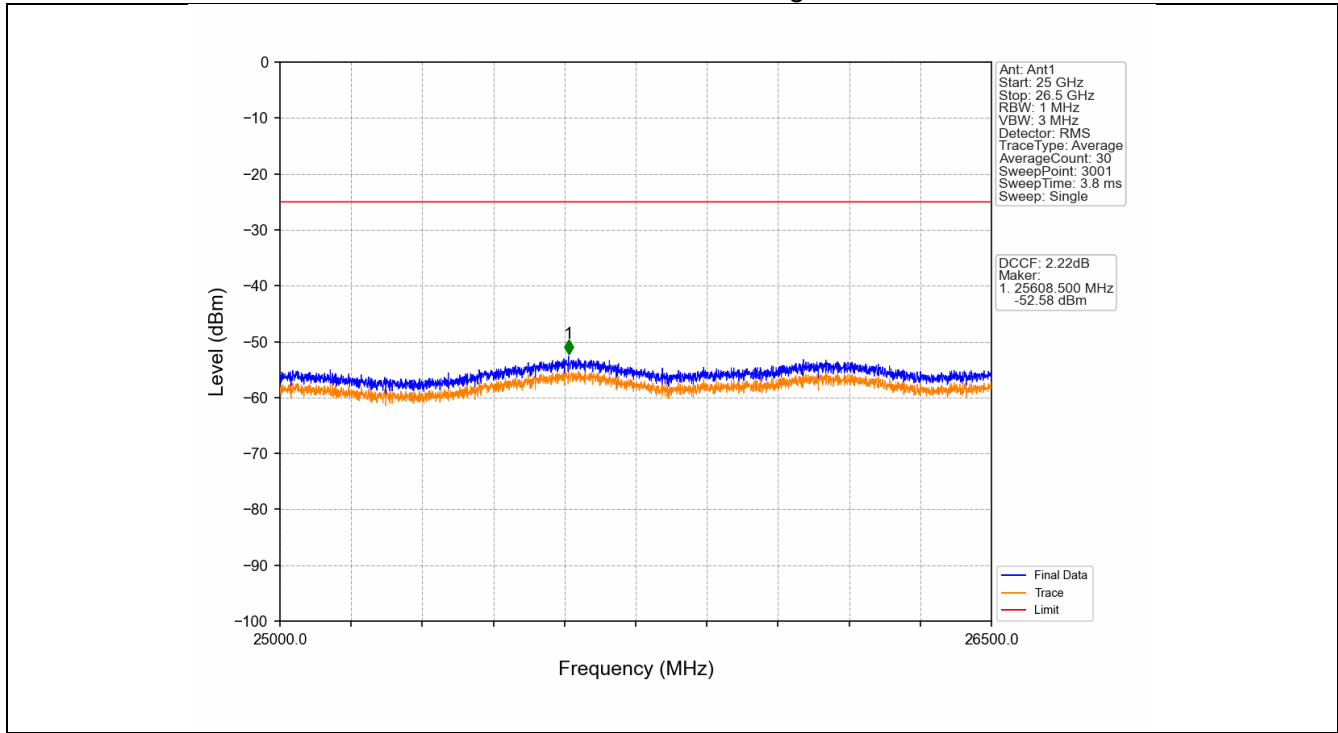


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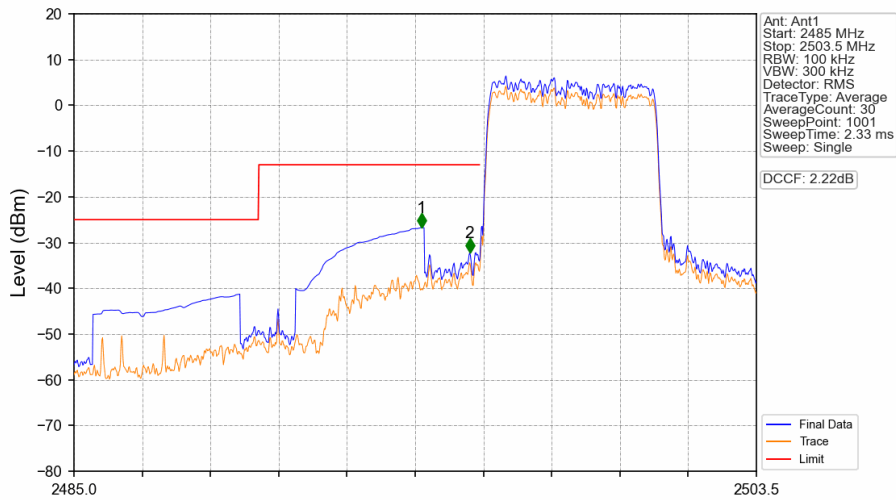
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Band41\_5MHz\_QPSK\_LCH\_2498.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.416	-26.74	-13	Pass
2495	2496	0.1	/	2	2495.730	-32.19	-13	Pass
2496	2503.5	0.112	/	/	/	/	/	/

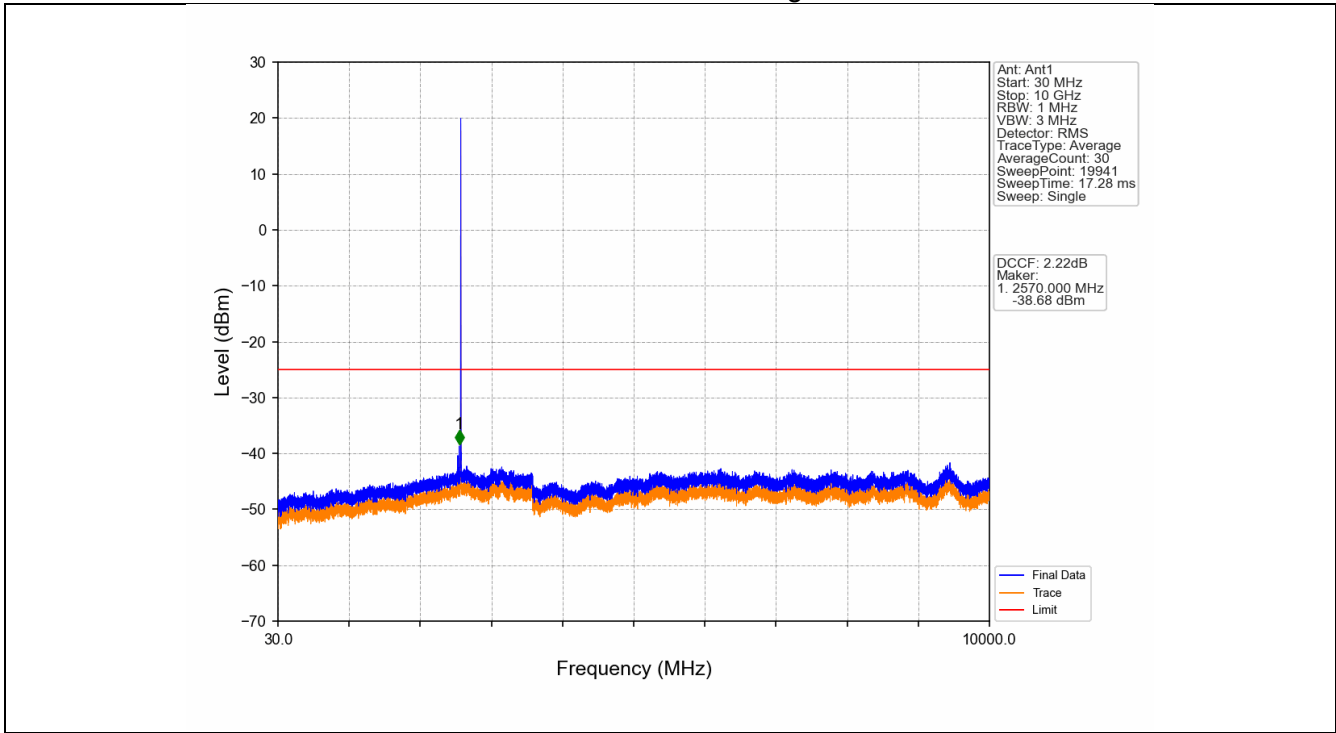
Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



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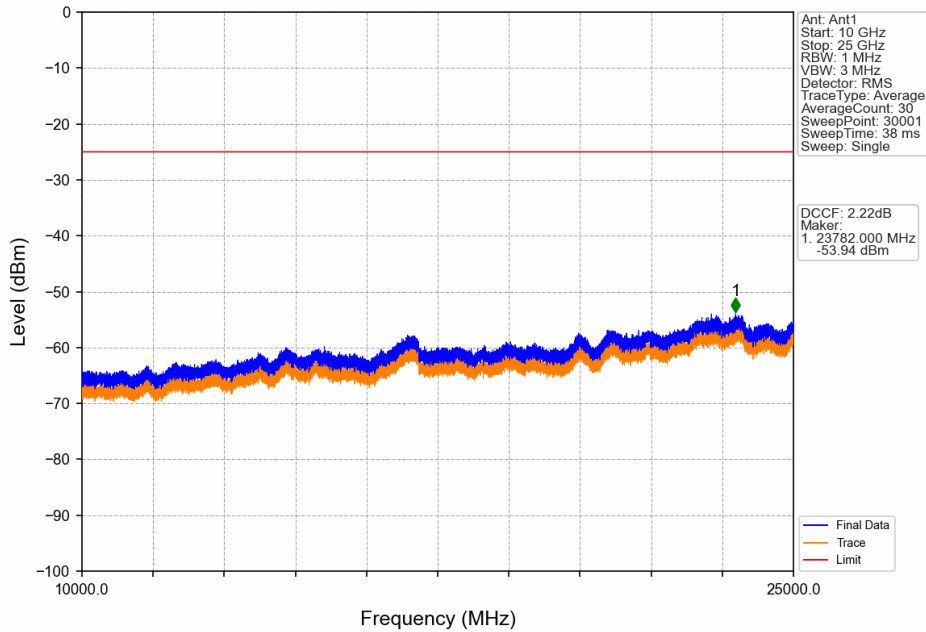


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Band41\_5MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



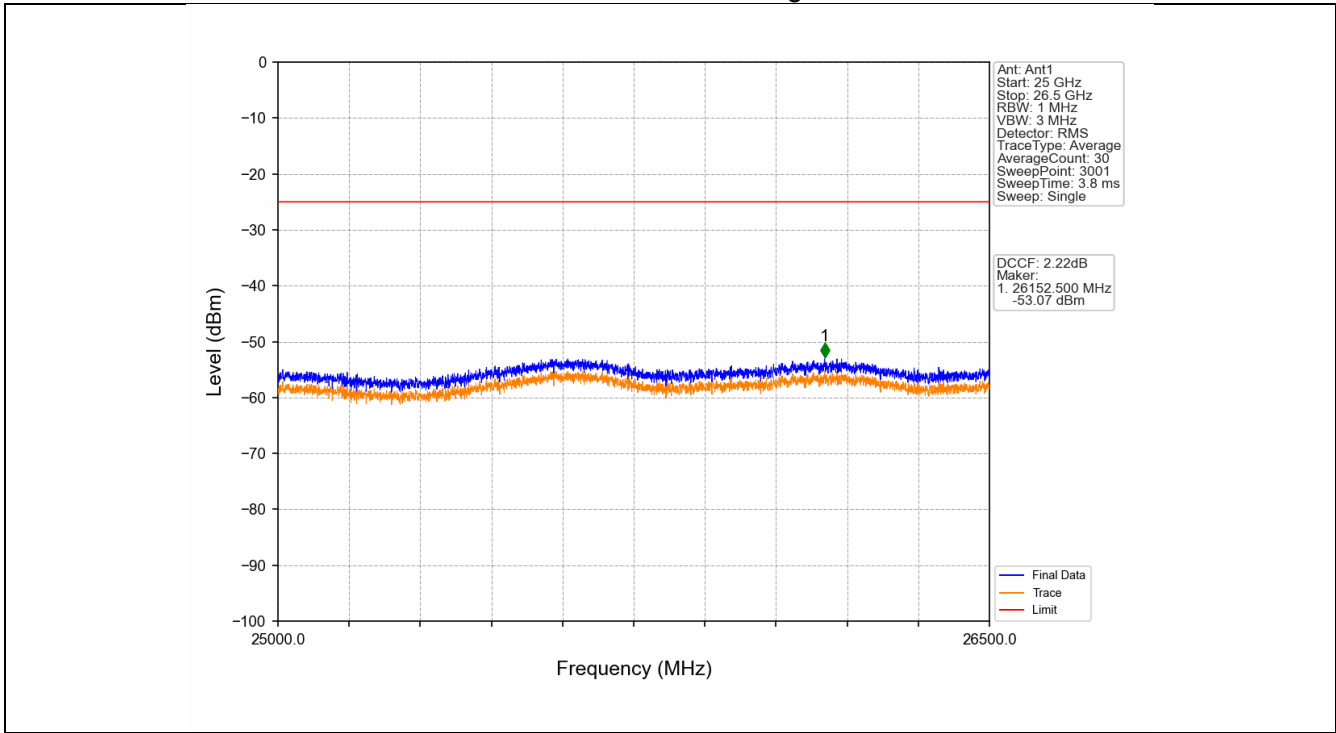
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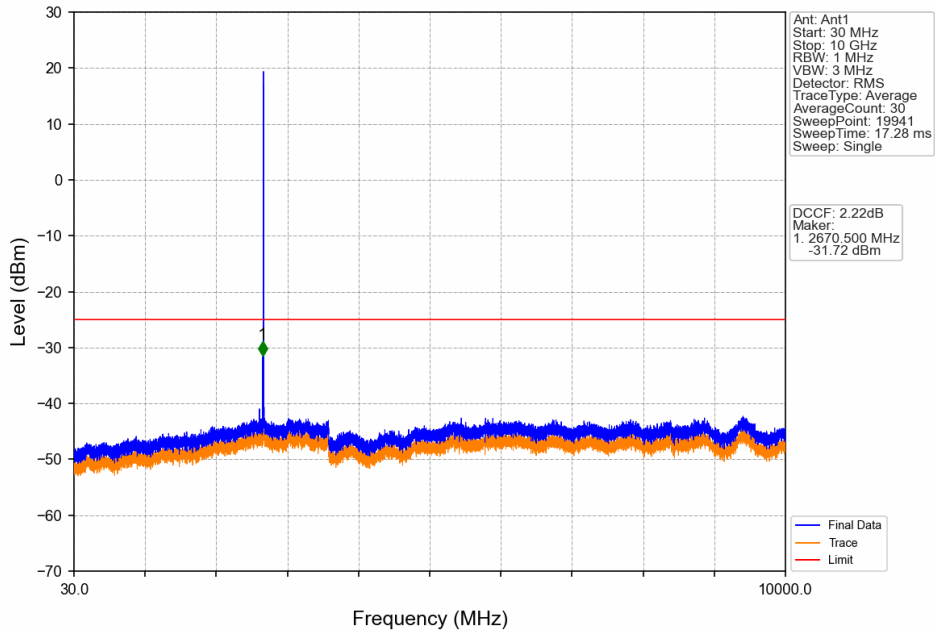


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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_1\_0\_NTNV



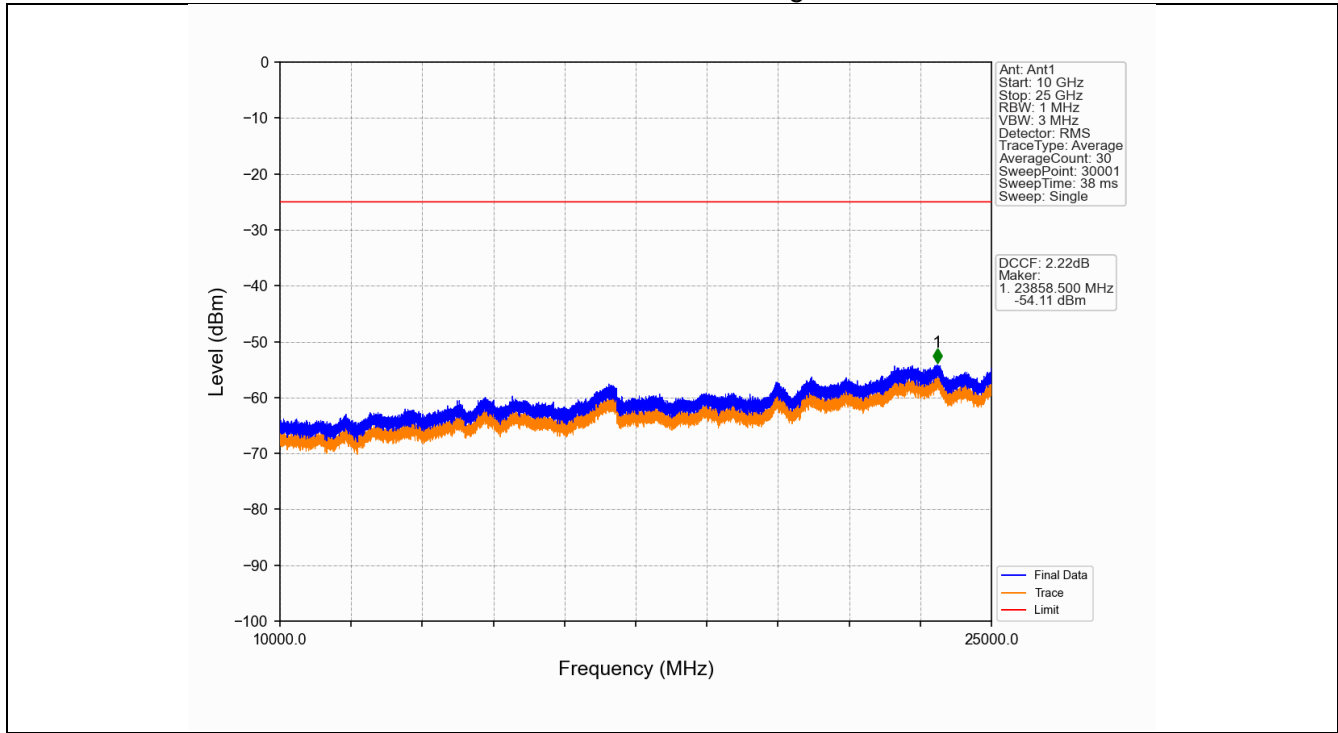
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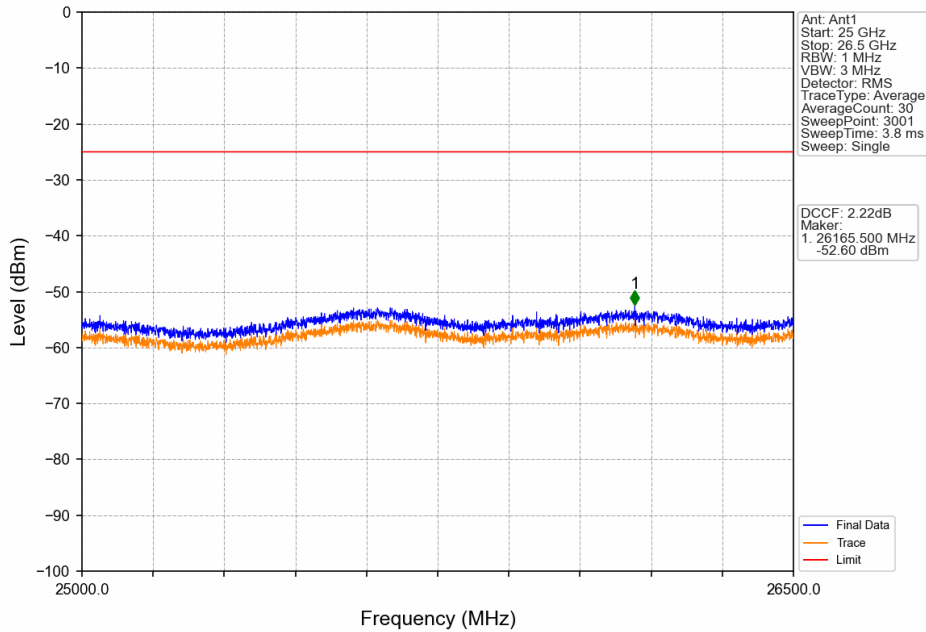


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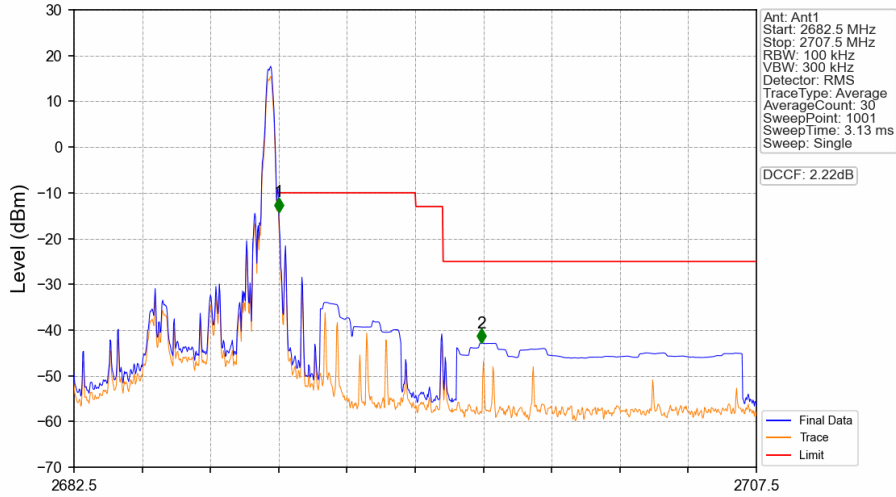
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.1	/	/	/	/	/	/
2690	2691	0.1	/	1	2690.000	-14.20	-10	Pass
2691	2707.5	1	CHP	2	2697.425	-42.85	-25	Pass



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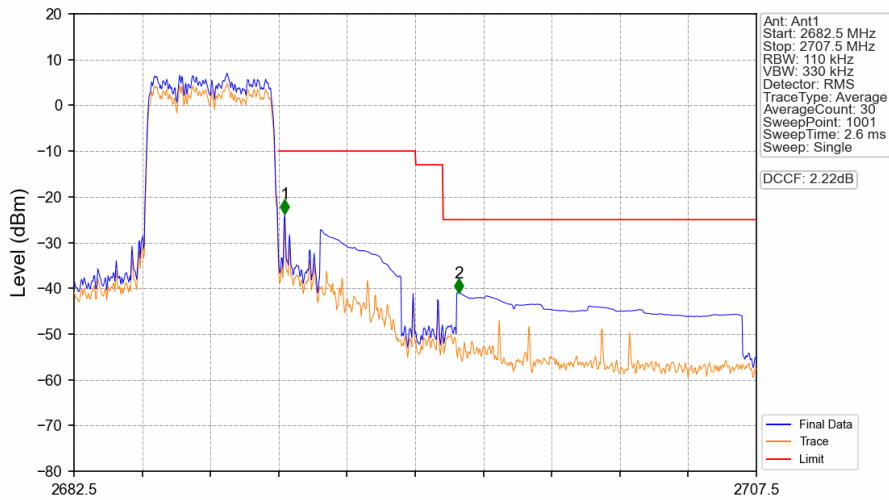
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Band41\_5MHz\_QPSK\_HCH\_2687.5MHz\_RB\_25\_0\_NTNV



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	2690.225	-23.71	-10	Pass
2691	2707.5	1	CHP	2	2696.600	-40.98	-25	Pass



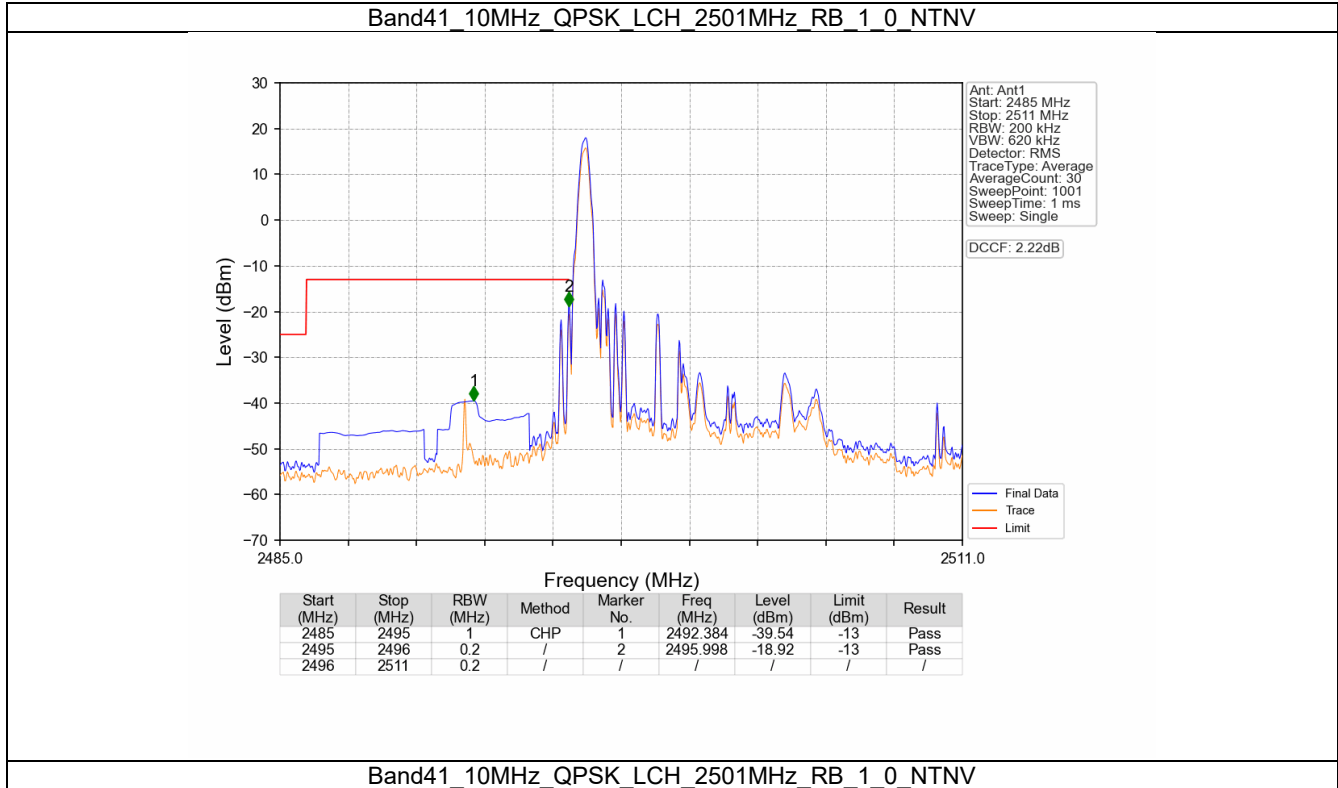
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5.2 B41\_10MHz

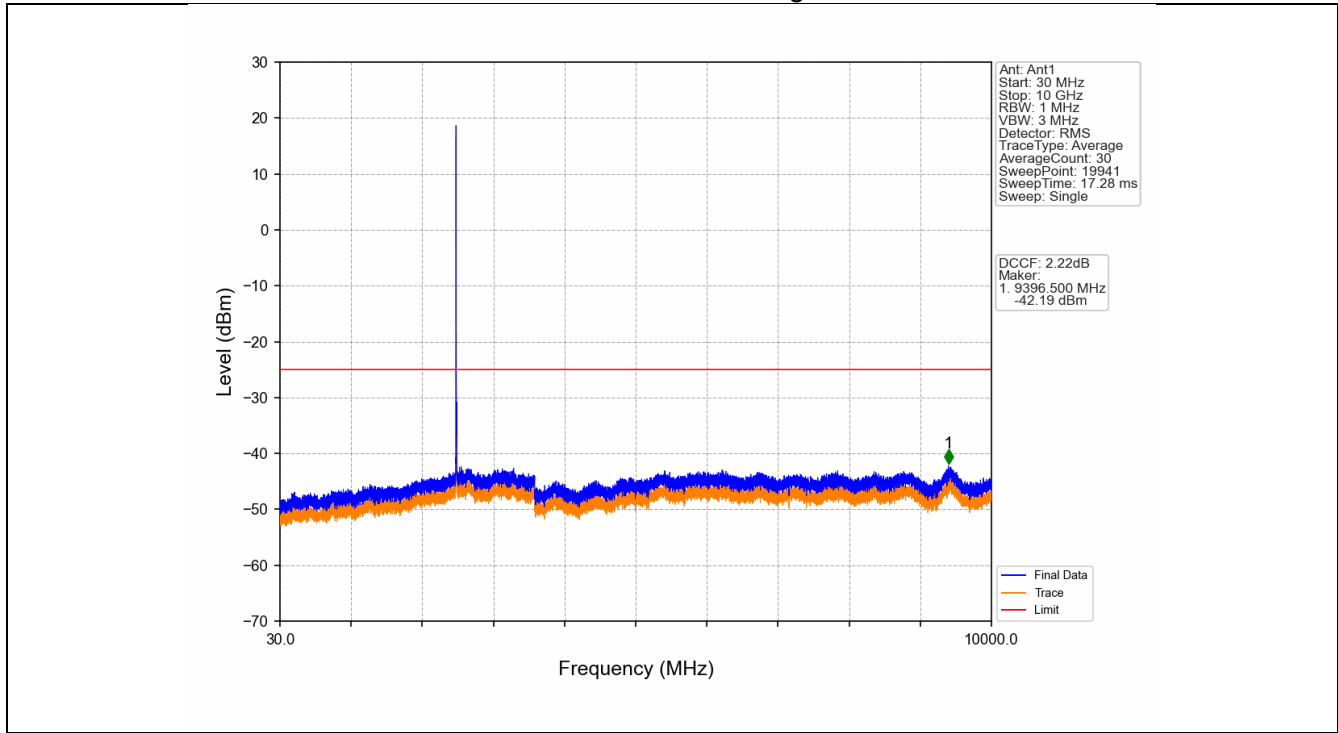
5.2.2 Test Graph



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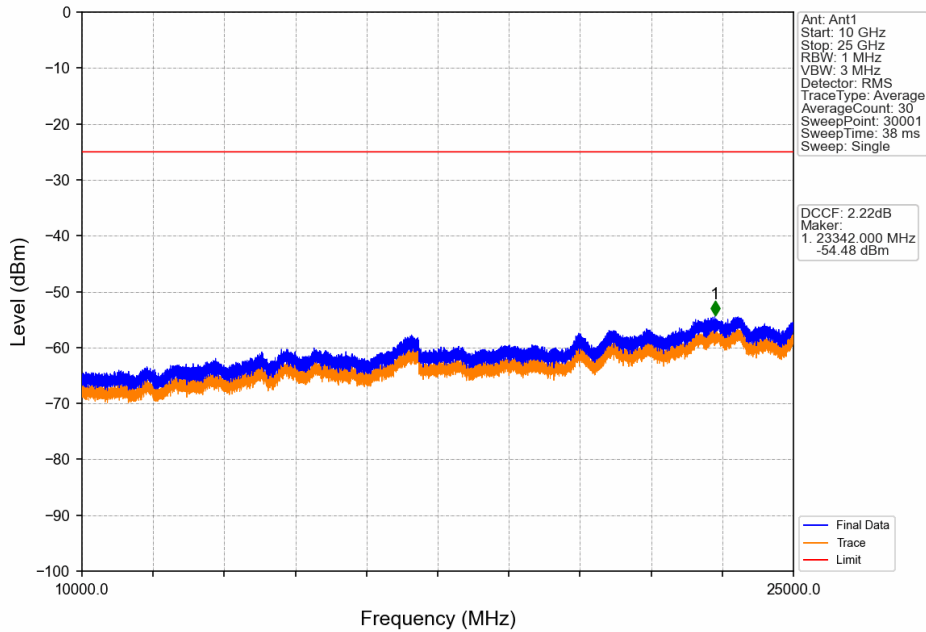


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Band41 10MHz QPSK LCH 2501MHz RB 1 0 NTNV



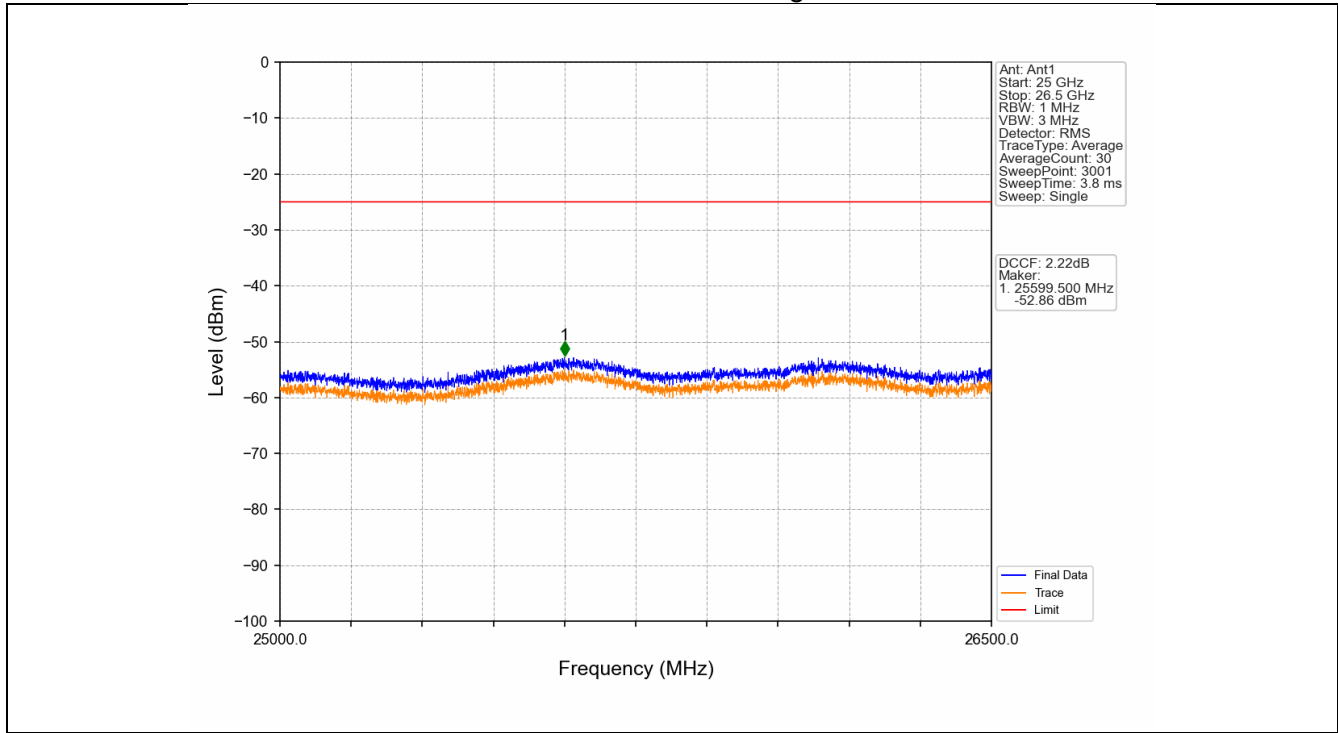
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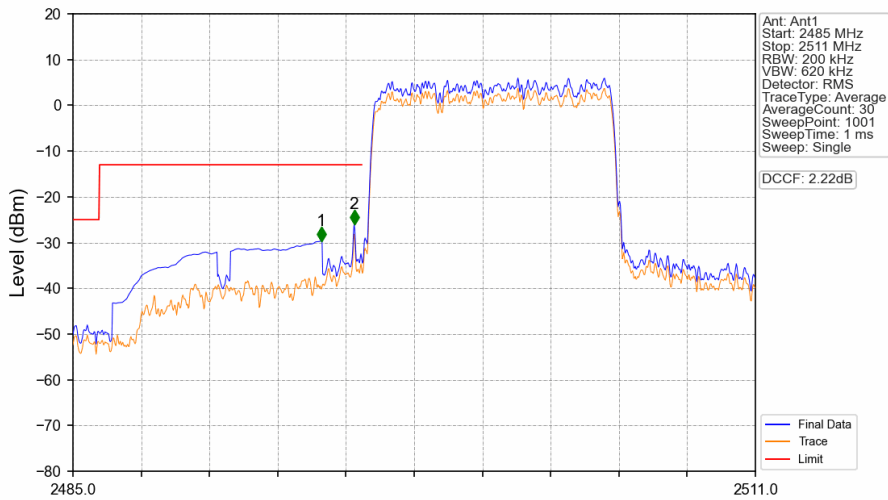


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Band41\_10MHz\_QPSK\_LCH\_2501MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2494.464	-29.65	-13	Pass
2495	2496	0.2	/	2	2495.712	-25.97	-13	Pass
2496	2511	0.223	/	/	/	/	/	/

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

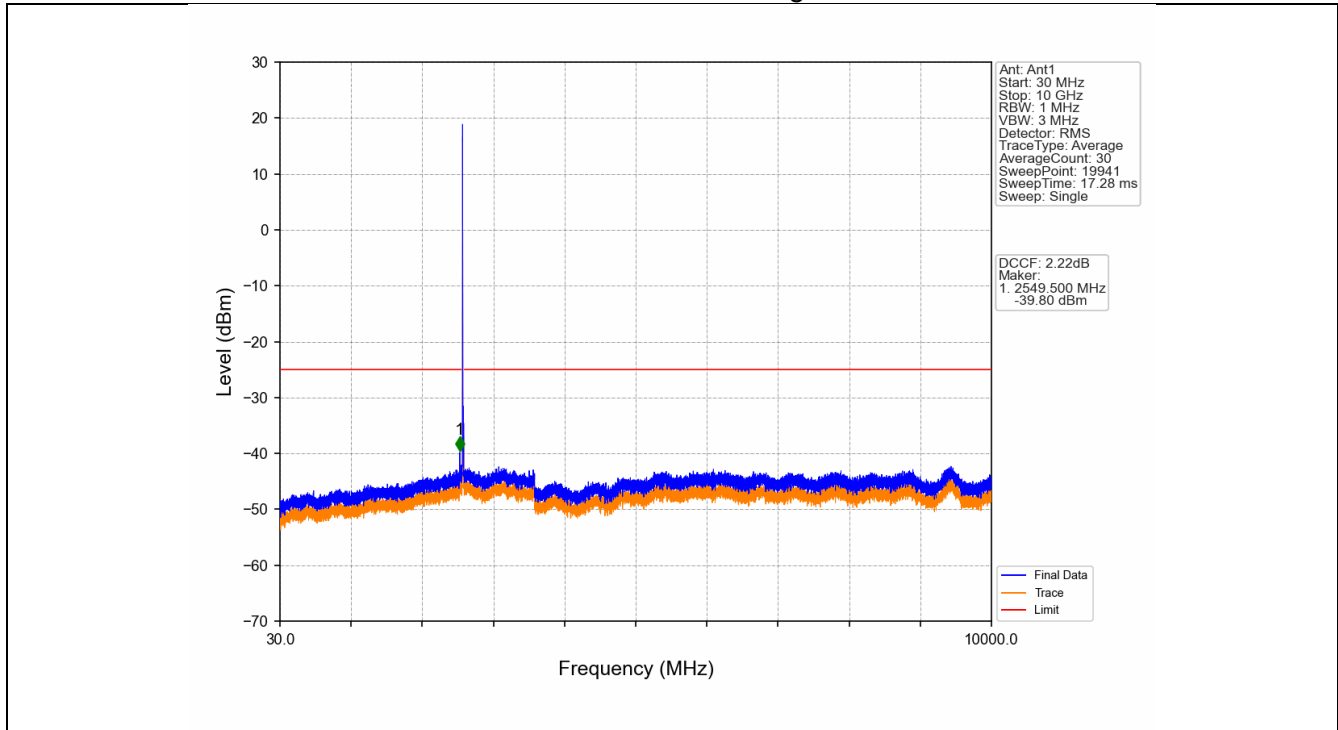


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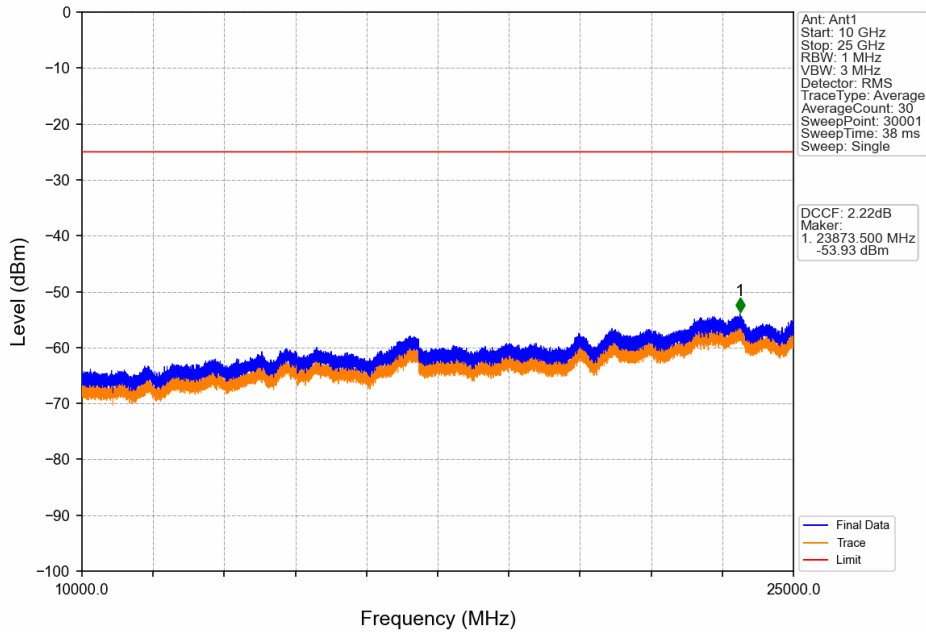
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Band41\_10MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



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



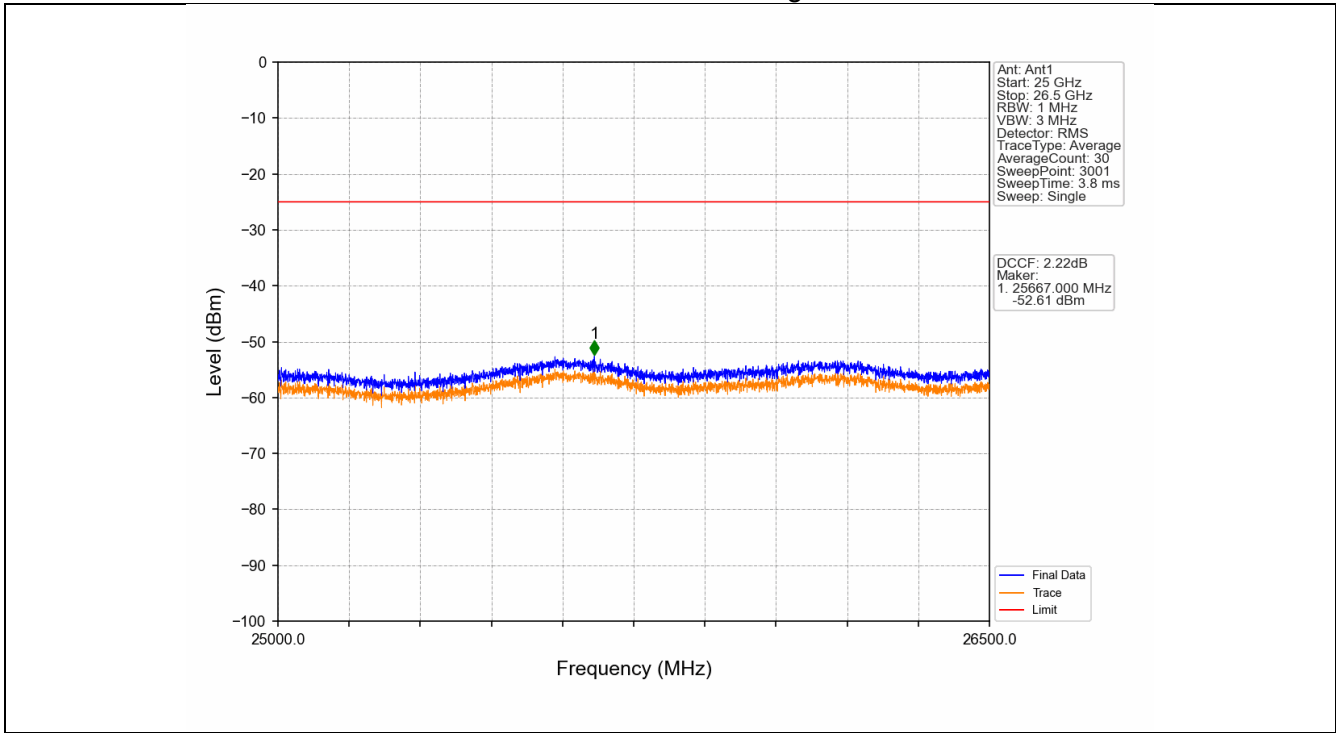
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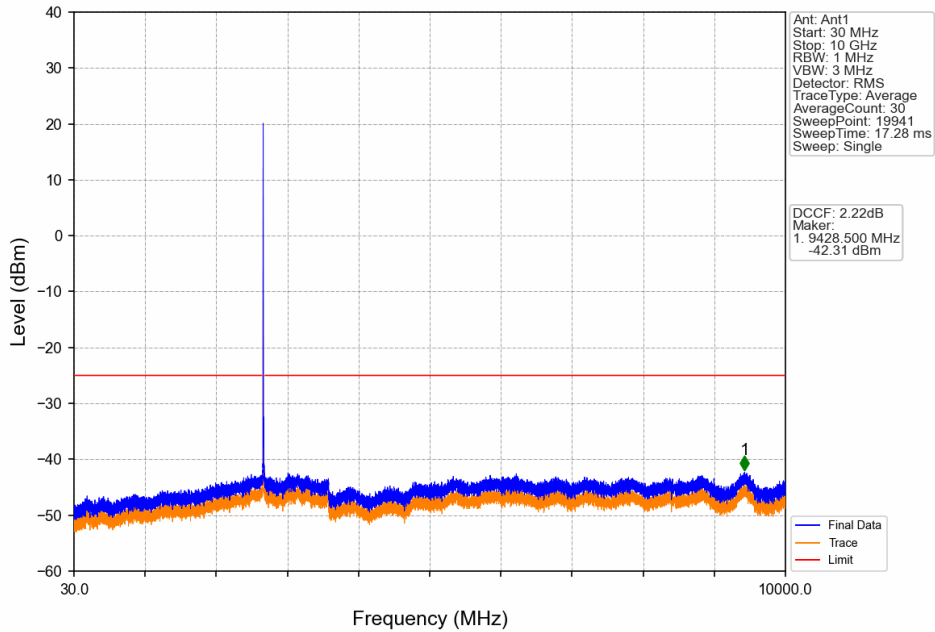


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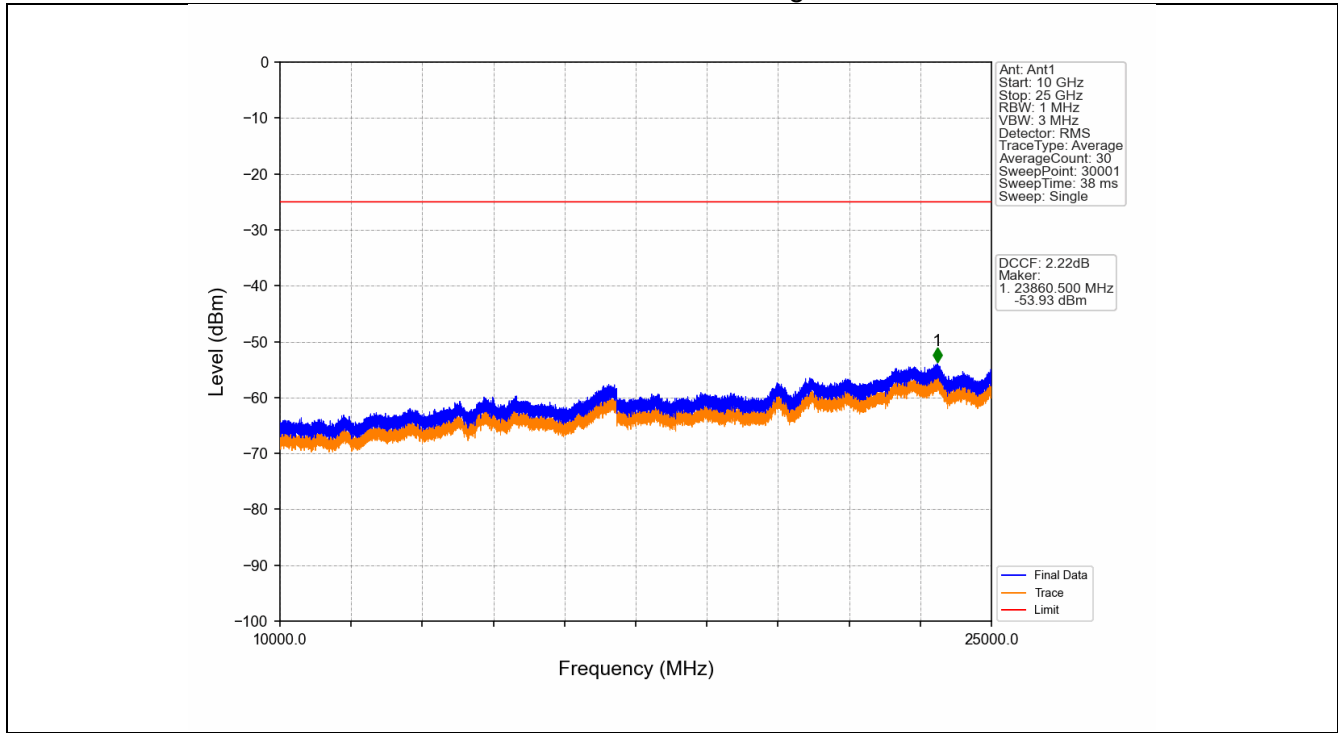


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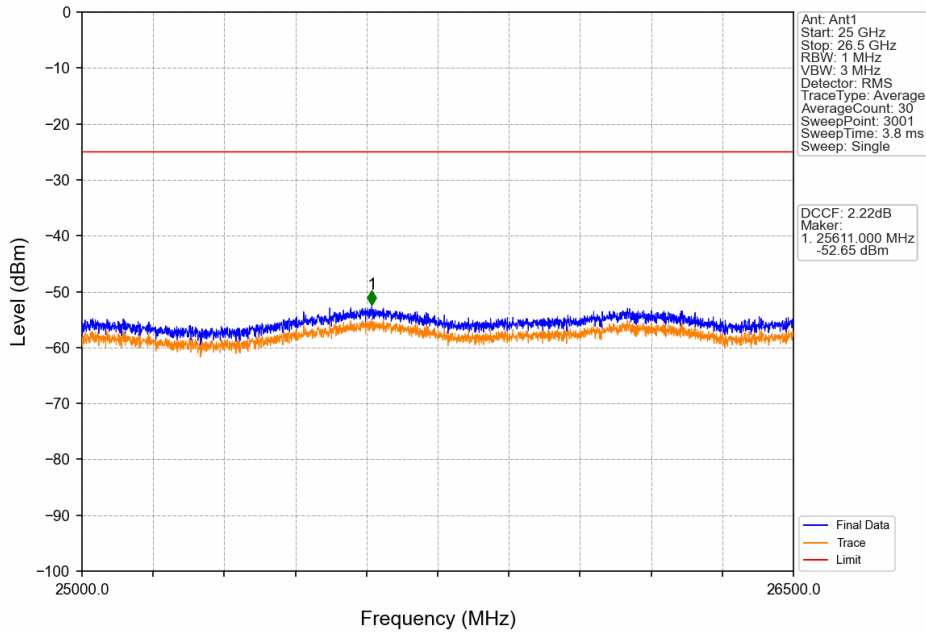
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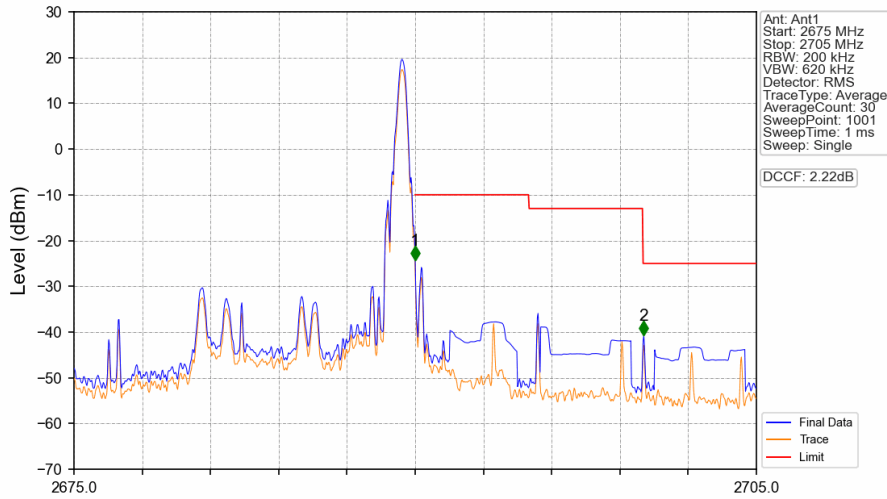


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.000	-24.32	-10	Pass
2691	2705	1	CHP	2	2700.050	-40.72	-25	Pass

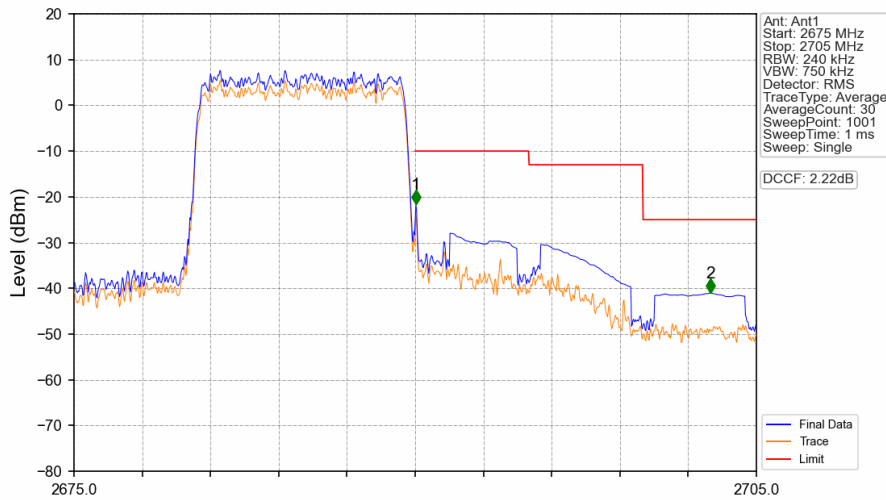


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Band41\_10MHz\_QPSK\_HCH\_2685MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.24	/	/	/	/	/	/
2690	2691	0.24	/	1	2690.030	-21.67	-10	Pass
2691	2705	1	CHP	2	2702.990	-41.05	-25	Pass



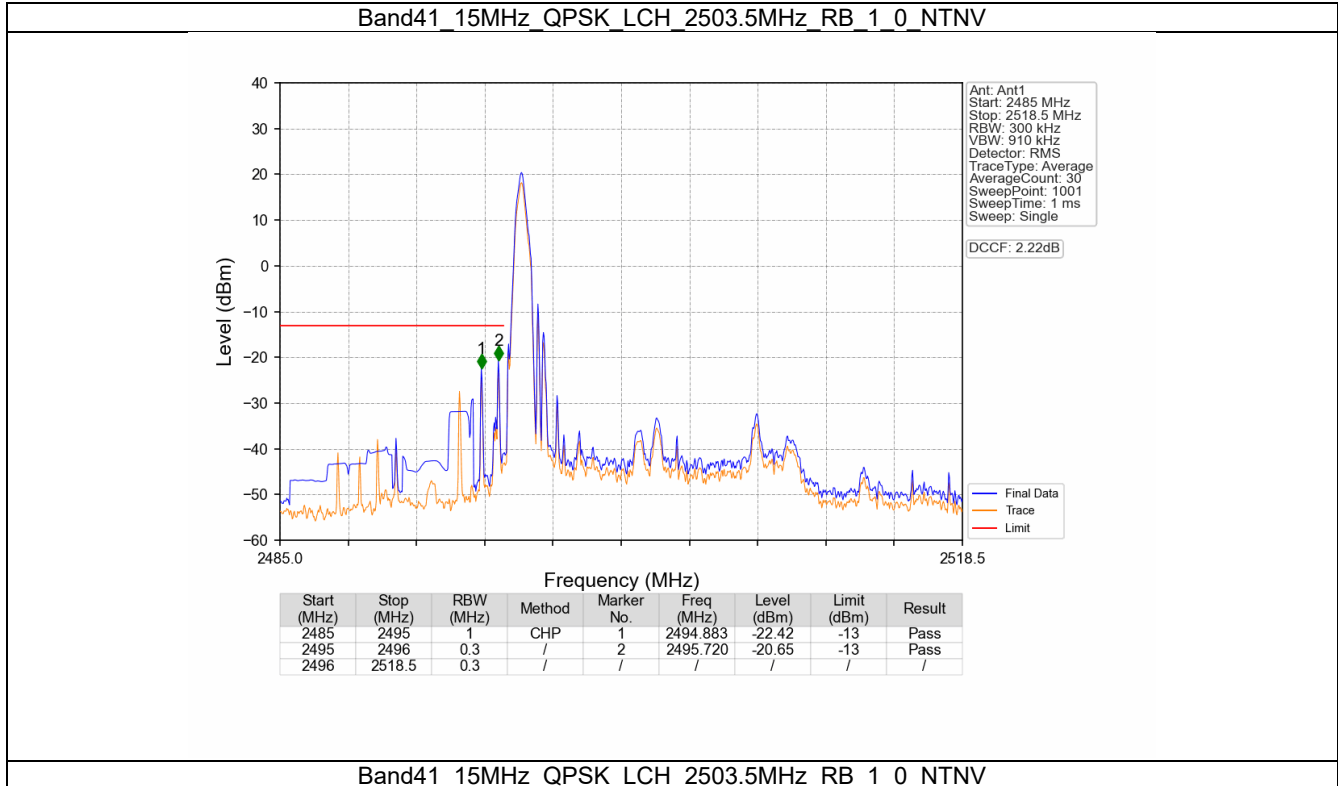
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5.3 B41\_15MHz

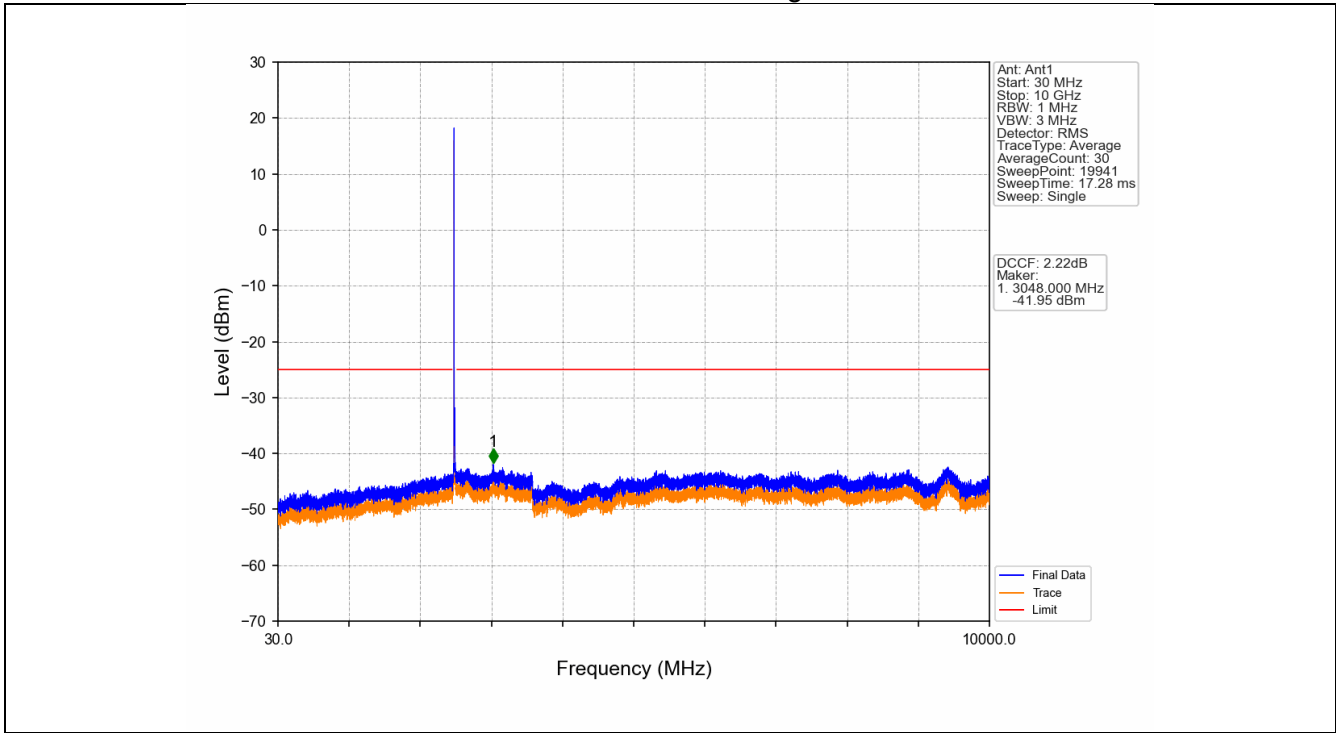
5.3.2 Test Graph



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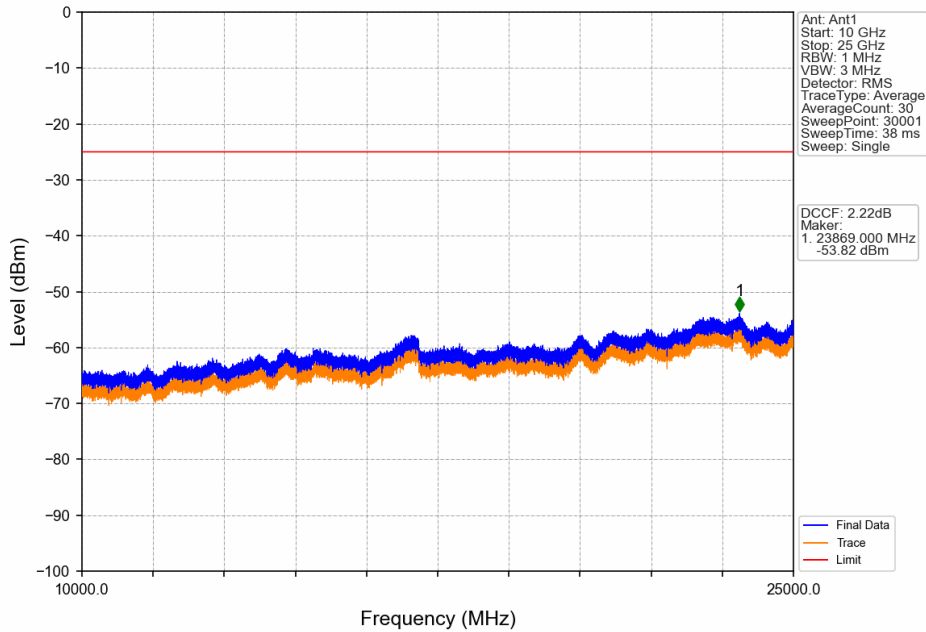
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Band41\_15MHz\_QPSK\_LCH\_2503.5MHz\_RB\_1\_0\_NTNV



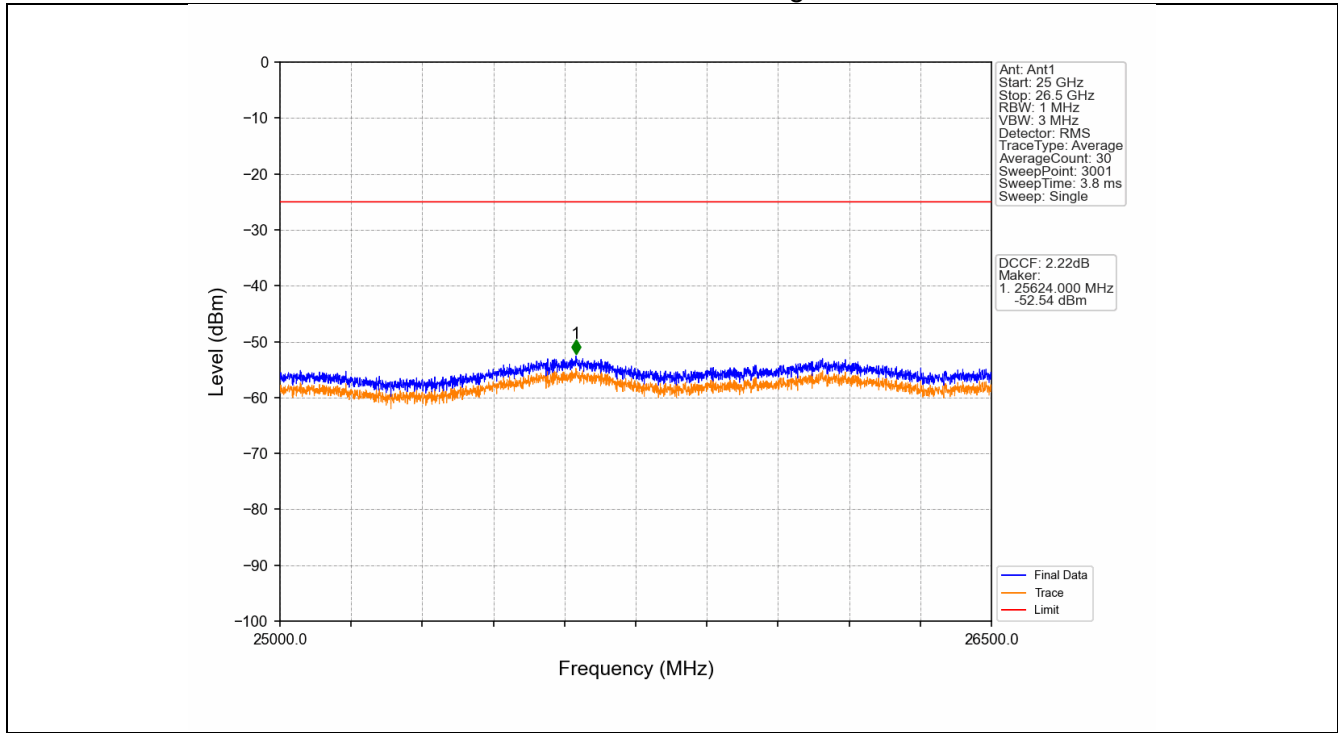
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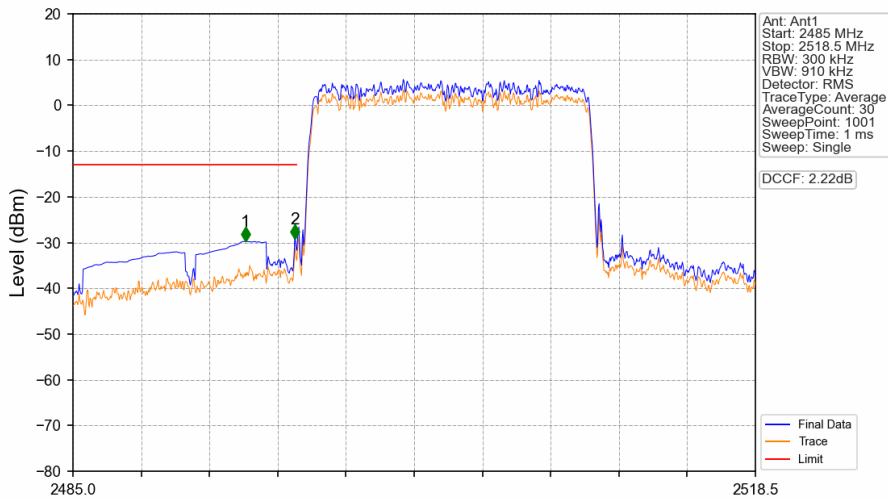


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Band41 15MHz QPSK LCH 2503.5MHz RB 75\_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2495	1	CHP	1	2493.476	-29.76	-13	Pass
2495	2496	0.3	/	2	2495.887	-29.21	-13	Pass
2496	2518.5	0.307	/	/	/	/	/	/

Band41 15MHz QPSK MCH 2593MHz RB 1\_0 NTN

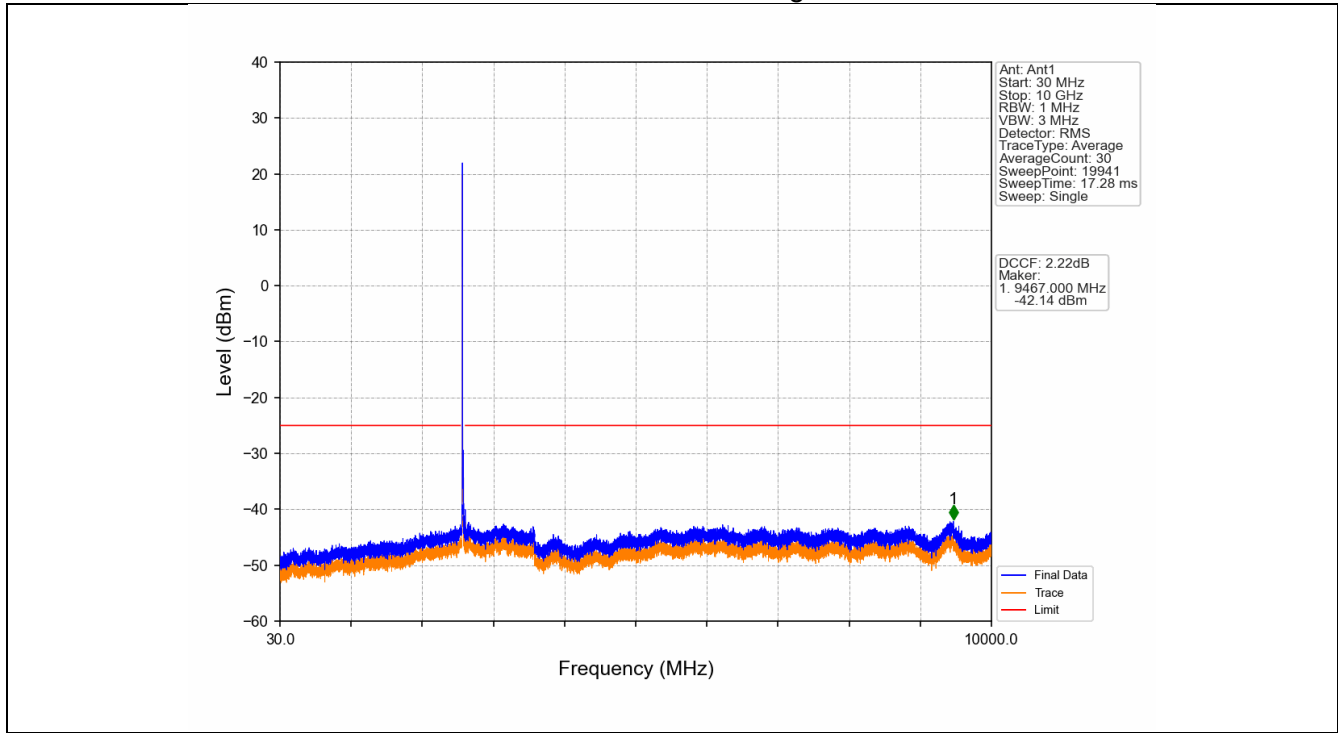


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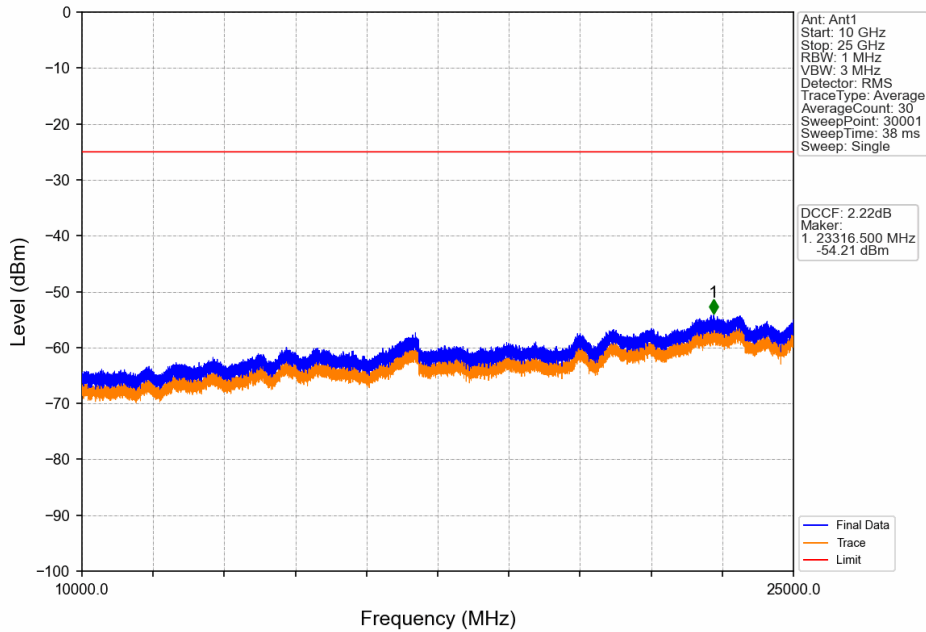
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Band41\_15MHz\_QPSK\_MCH\_2593MHz\_RB\_1\_0\_NTNV



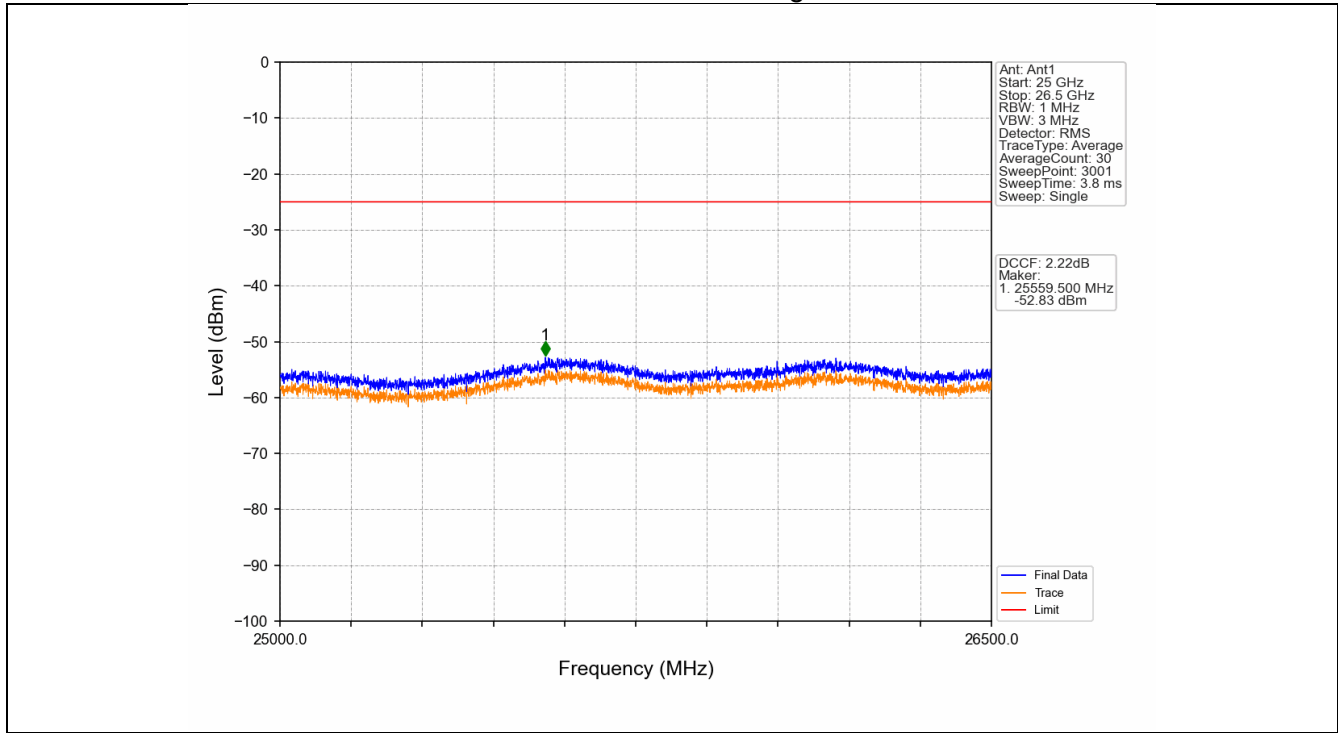
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