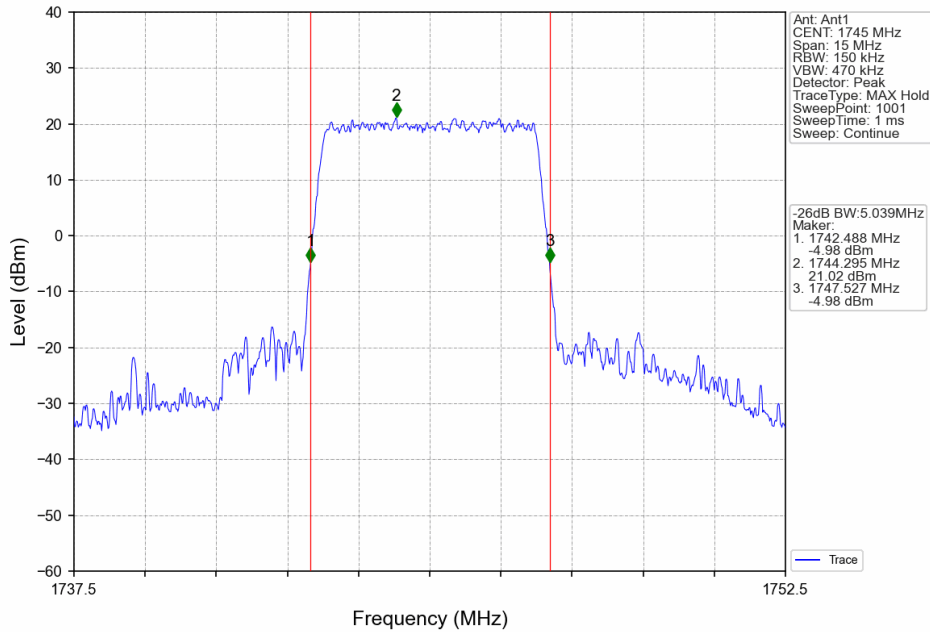


Band66\_5MHz\_QPSK\_MCH\_1745MHz\_RB\_25\_0\_NTNV

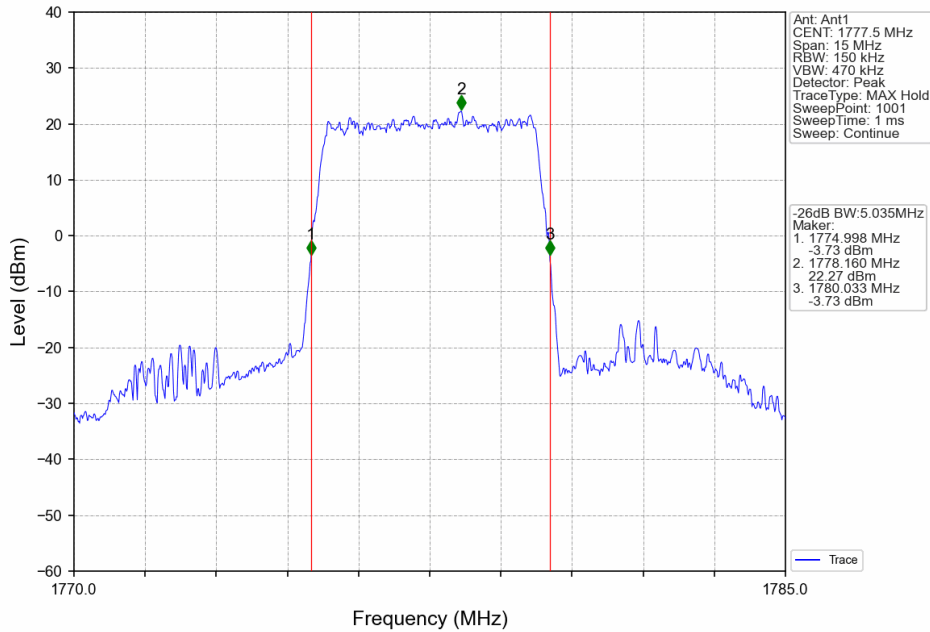


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Band66\_5MHz\_QPSK\_HCH\_1777.5MHz\_RB\_25\_0\_NTNV

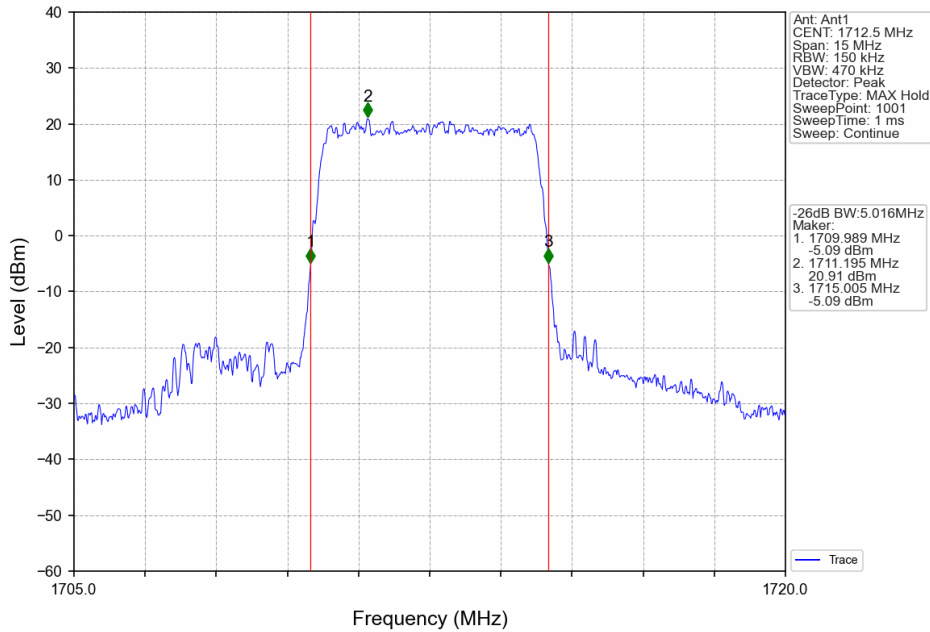


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Band66\_5MHz\_16QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

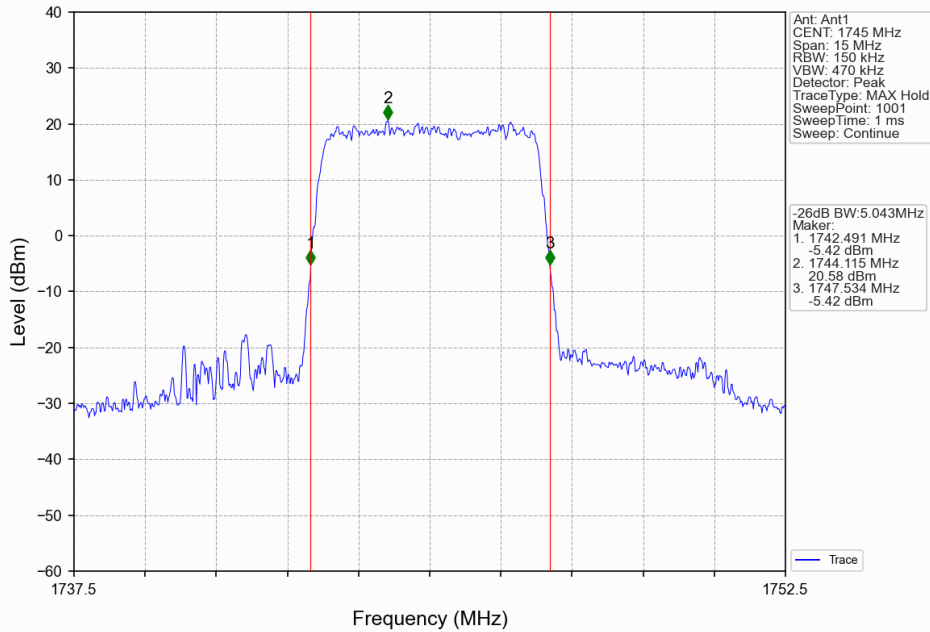


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Band66\_5MHz\_16QAM\_MCH\_1745MHz\_RB\_25\_0\_NTNV

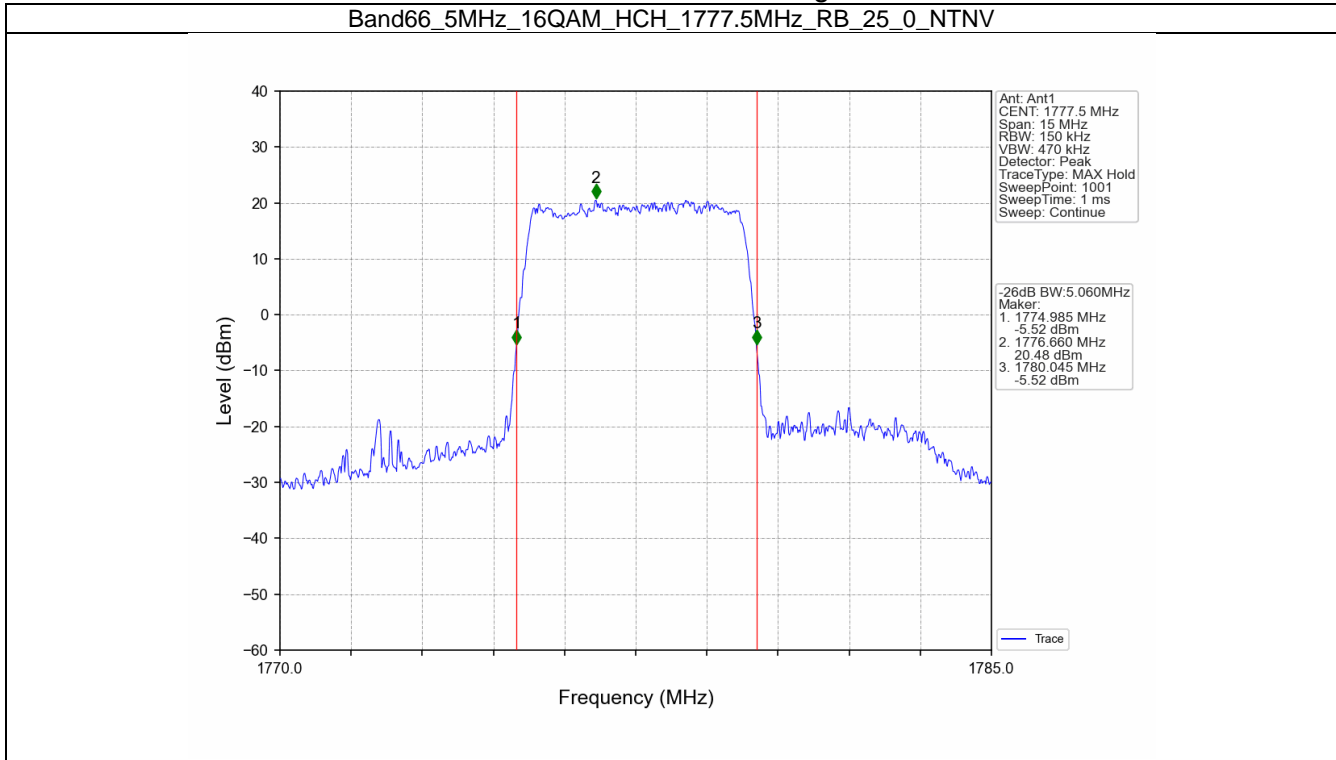


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Band66\_5MHz\_16QAM\_HCH\_1777.5MHz\_RB\_25\_0\_NTNV

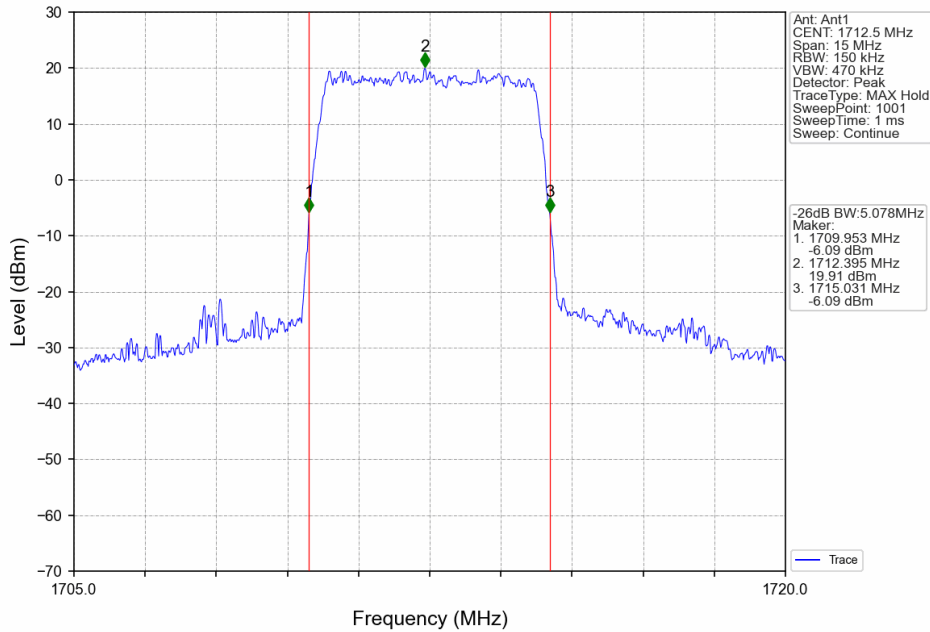


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Band66\_5MHz\_64QAM\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV



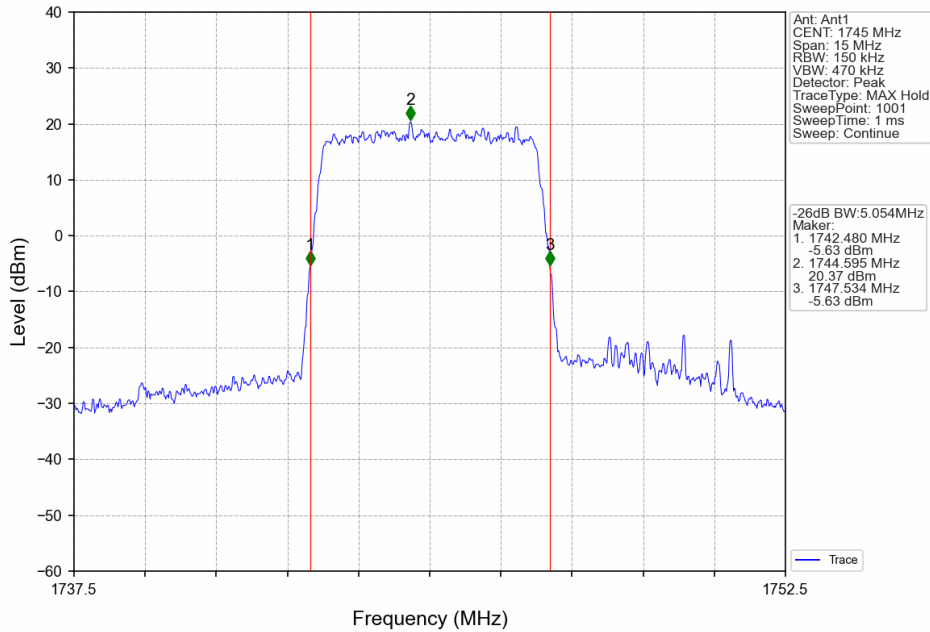
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Band66\_5MHz\_64QAM\_MCH\_1745MHz\_RB\_25\_0\_NTNV

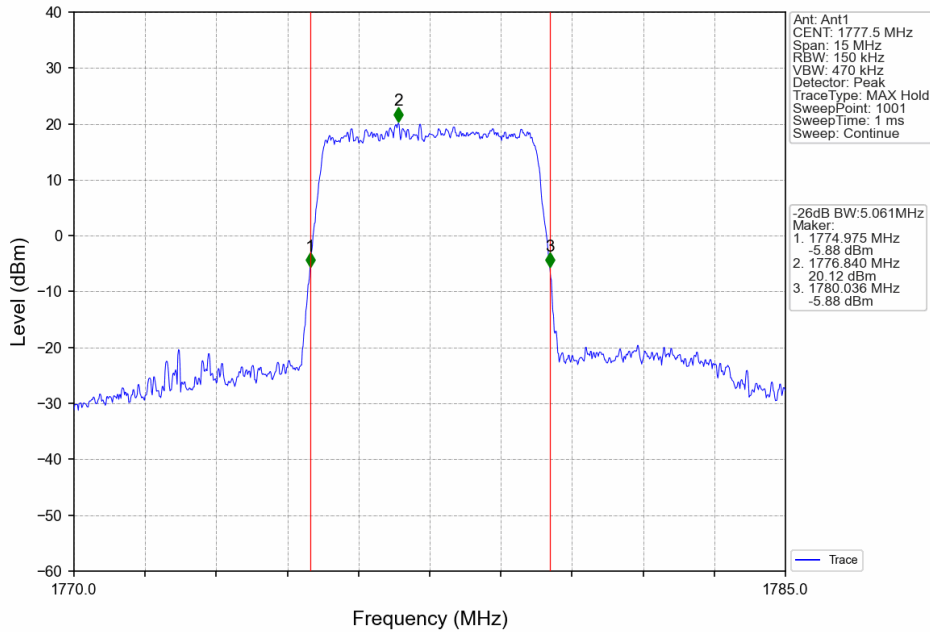


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Band66\_5MHz\_64QAM\_HCH\_1777.5MHz\_RB\_25\_0\_NTNV



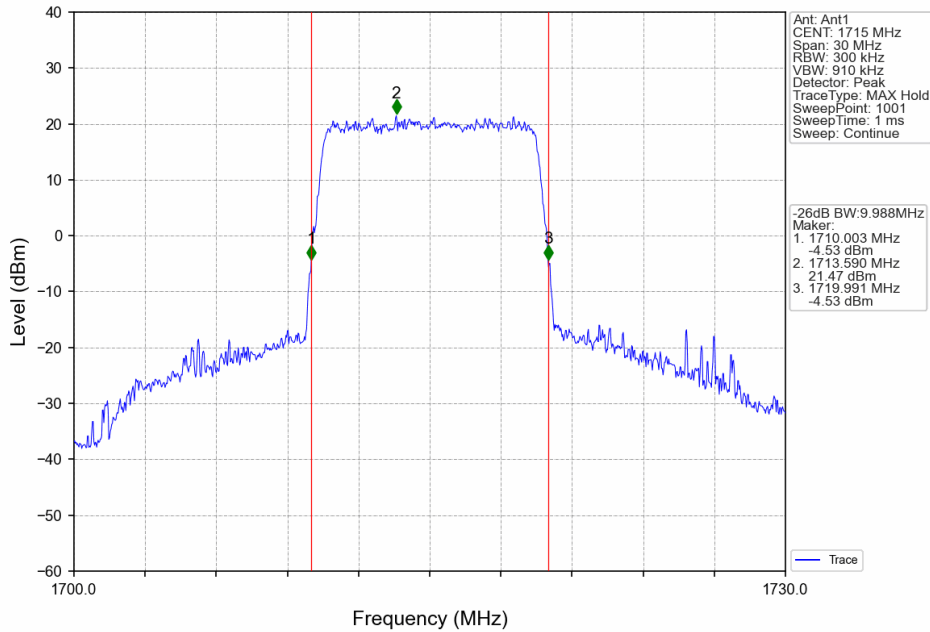
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Band66\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV

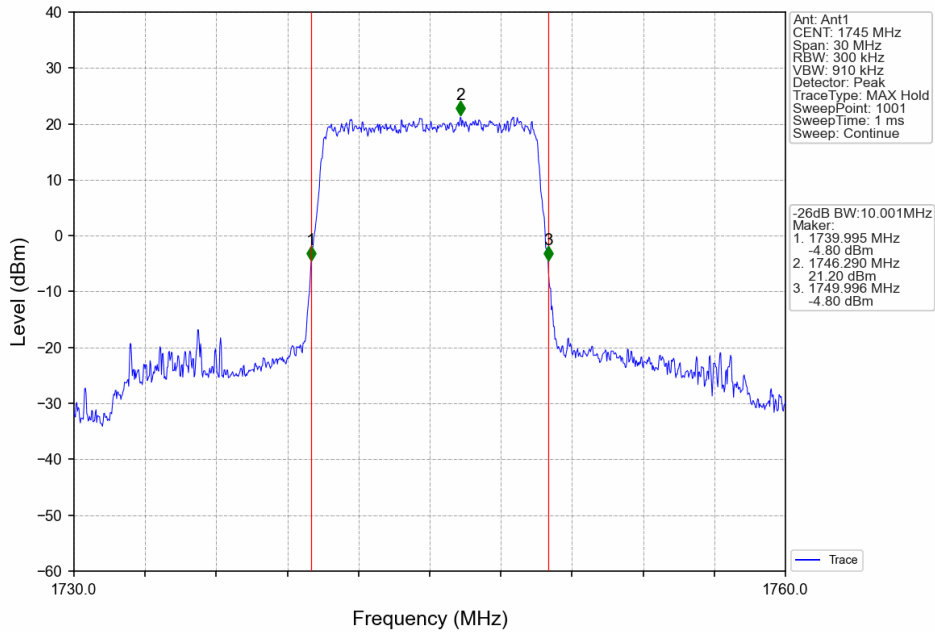


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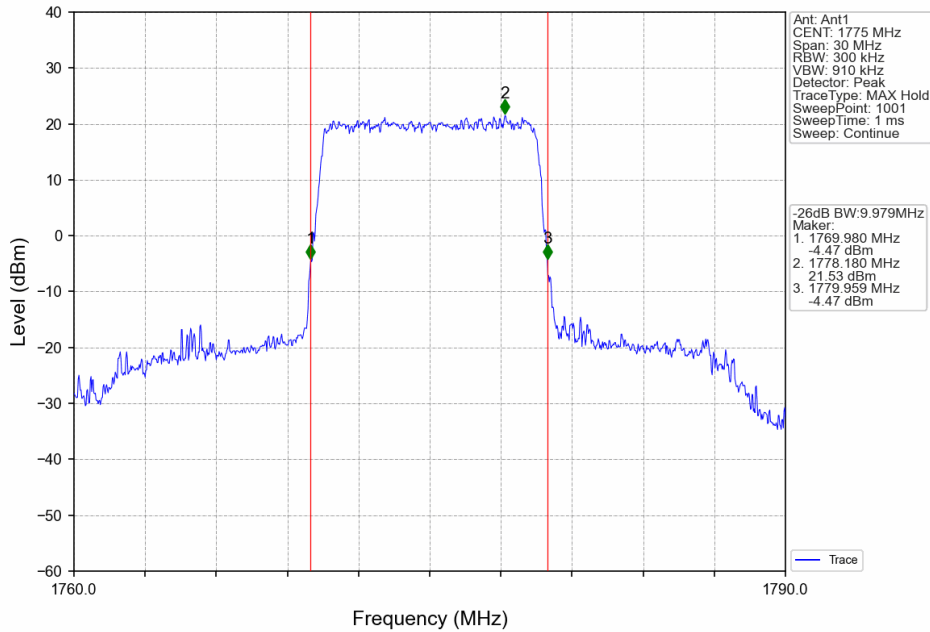


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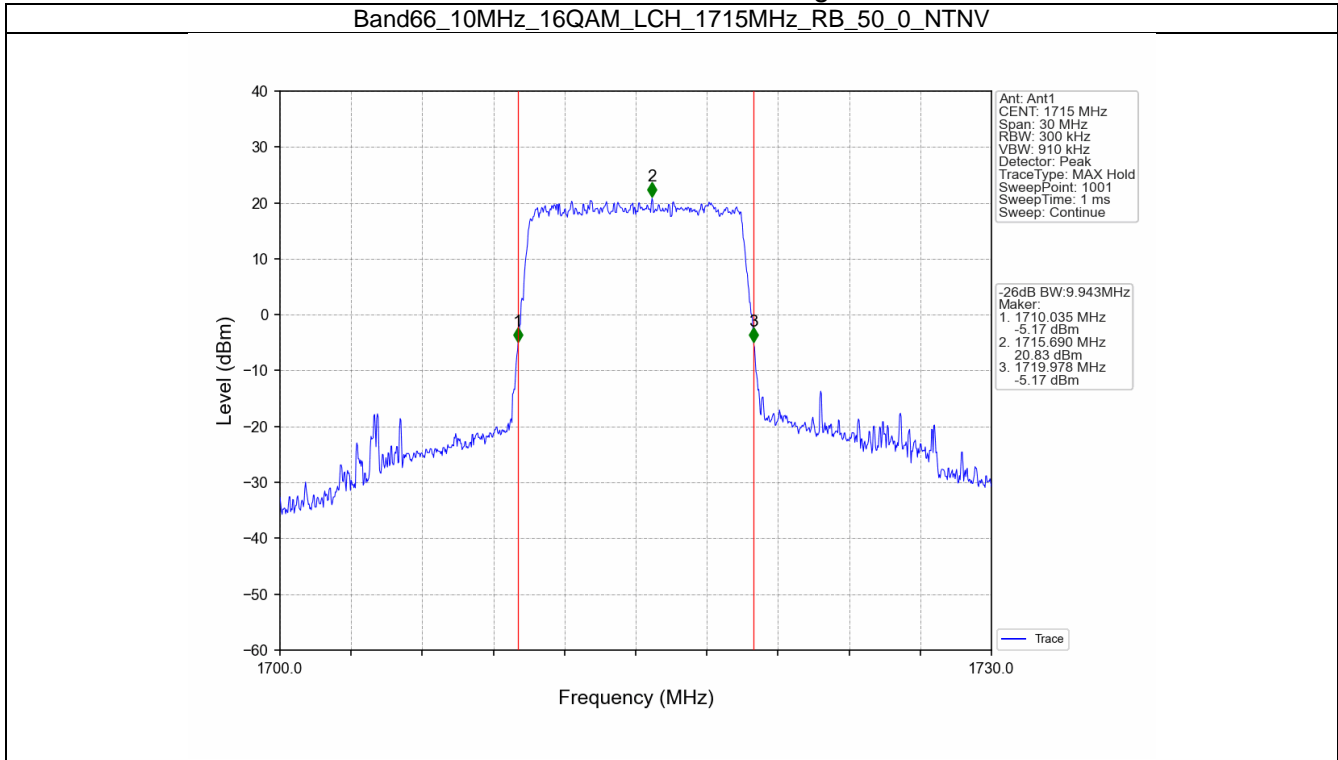
Band66\_10MHz\_QPSK\_HCH\_1775MHz\_RB\_50\_0\_NTNV



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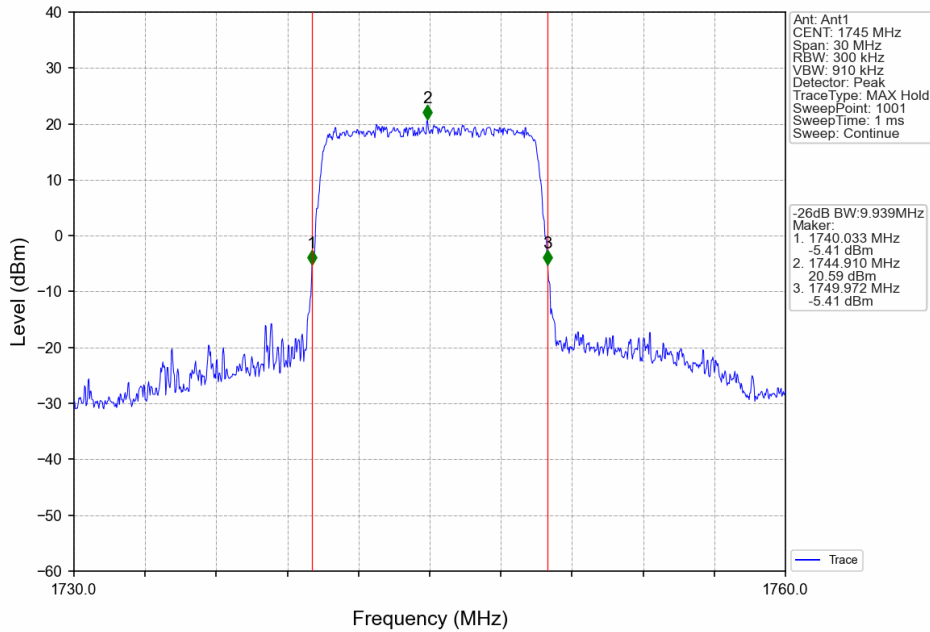


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Band66\_10MHz\_16QAM\_MCH\_1745MHz\_RB\_50\_0\_NTNV

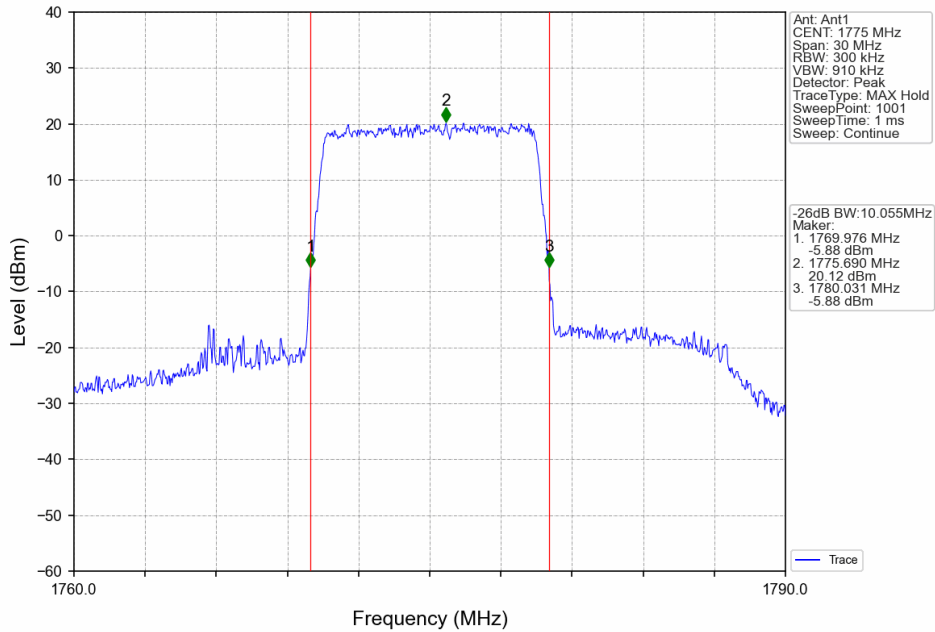


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Band66\_10MHz\_16QAM\_HCH\_1775MHz\_RB\_50\_0\_NTNV

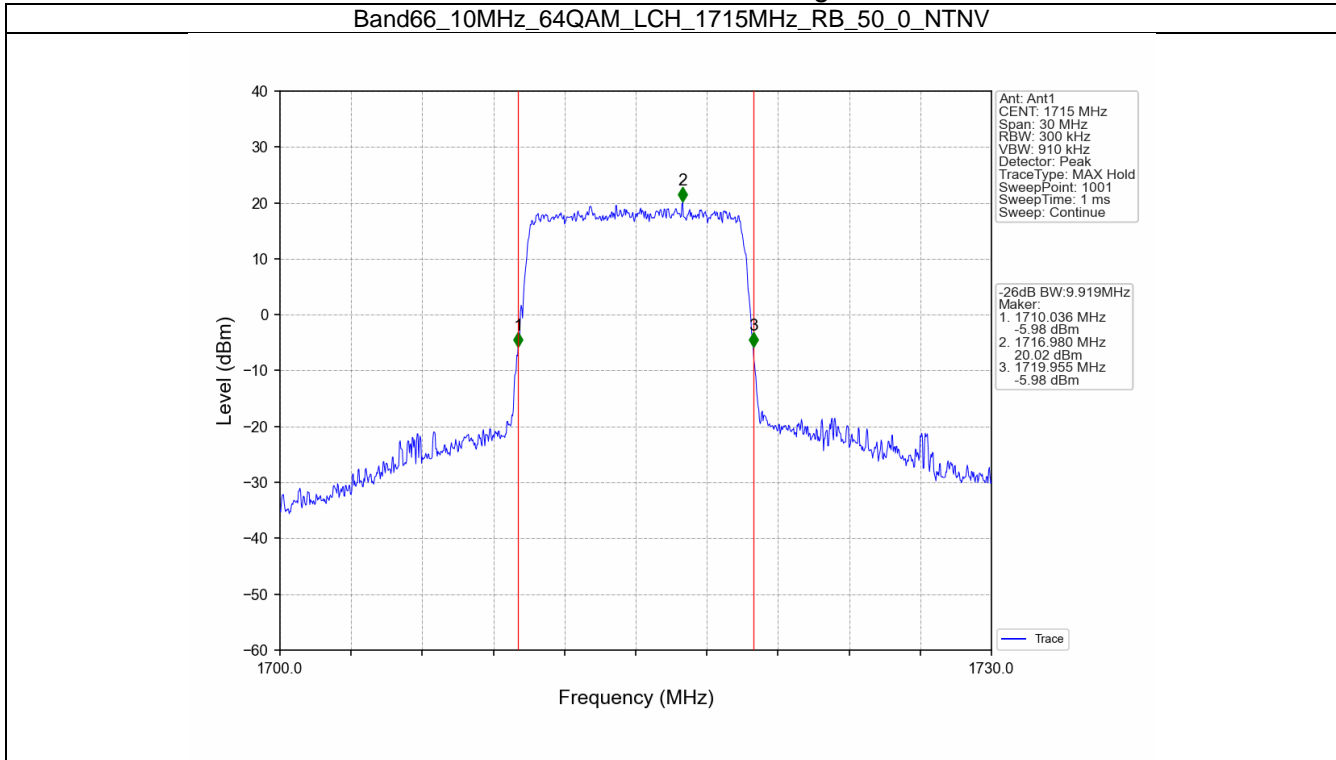


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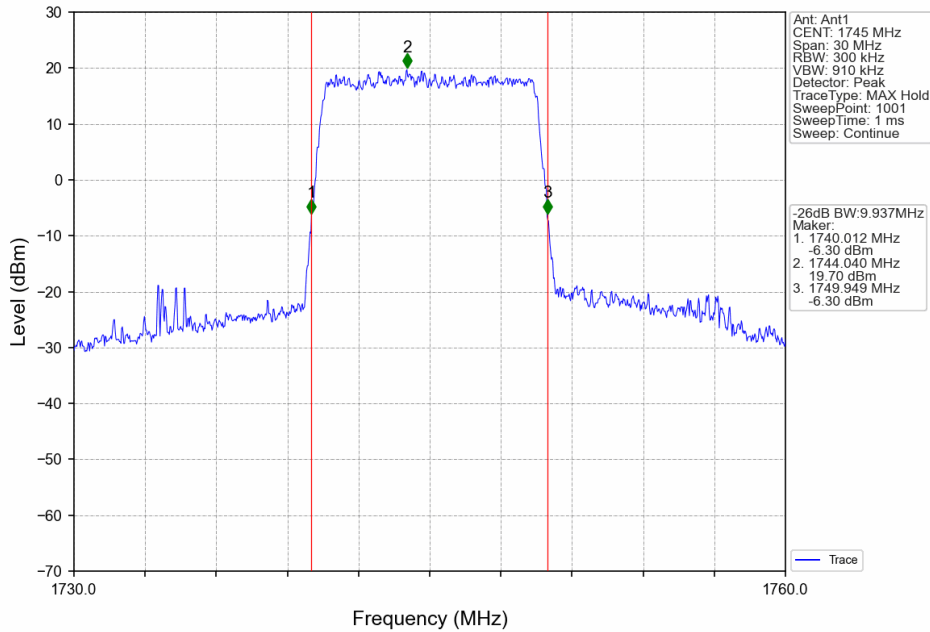


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Band66\_10MHz\_64QAM\_MCH\_1745MHz\_RB\_50\_0\_NTNV

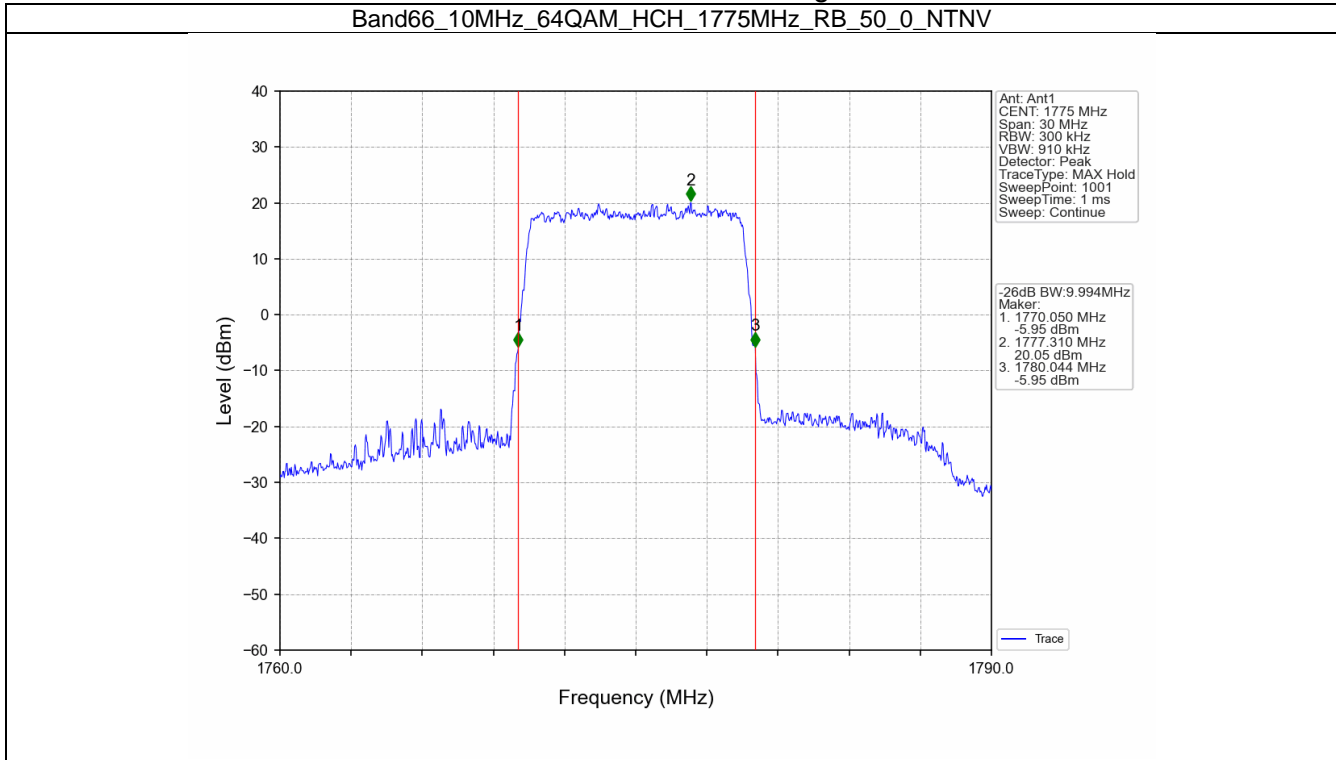


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Band66\_10MHz\_64QAM\_HCH\_1775MHz\_RB\_50\_0\_NTNV

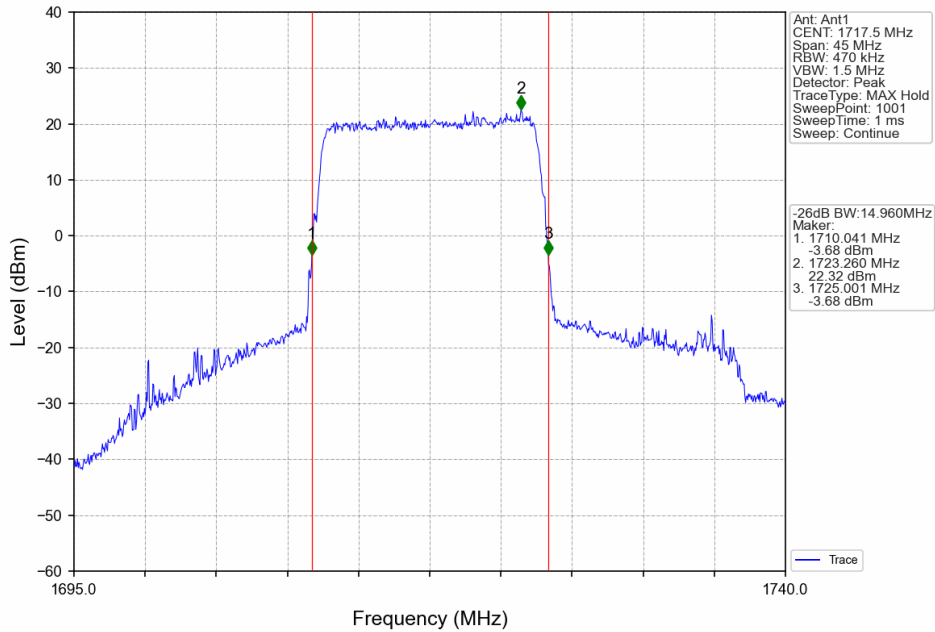


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Band66\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

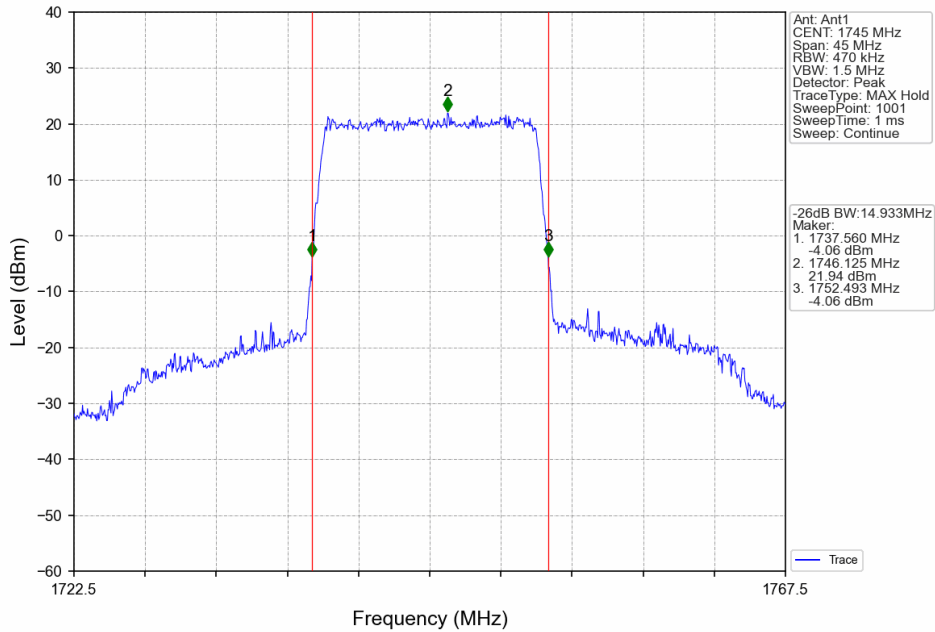


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Band66\_15MHz\_QPSK\_MCH\_1745MHz\_RB\_75\_0\_NTNV

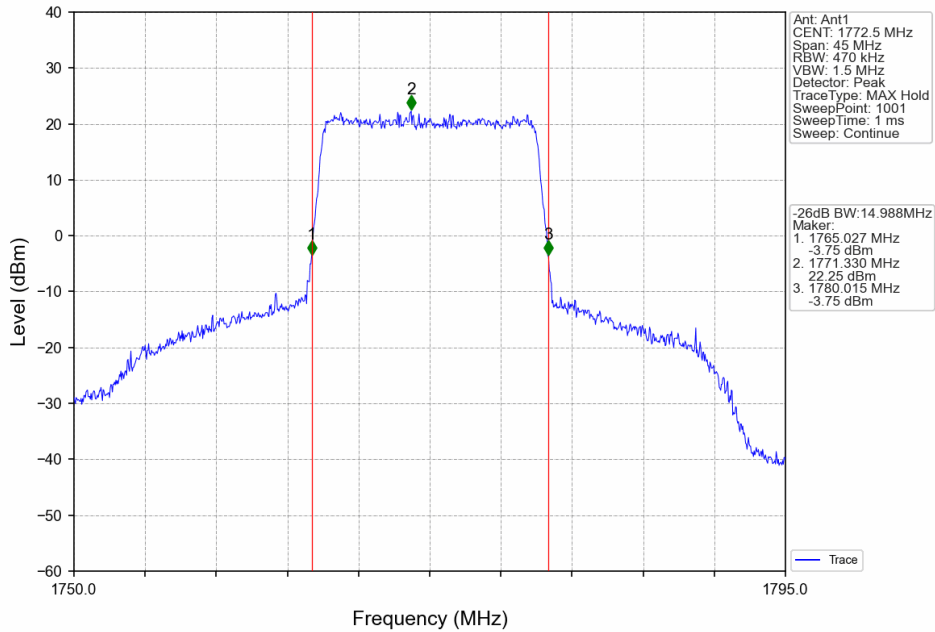


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Band66\_15MHz\_QPSK\_HCH\_1772.5MHz\_RB\_75\_0\_NTNV



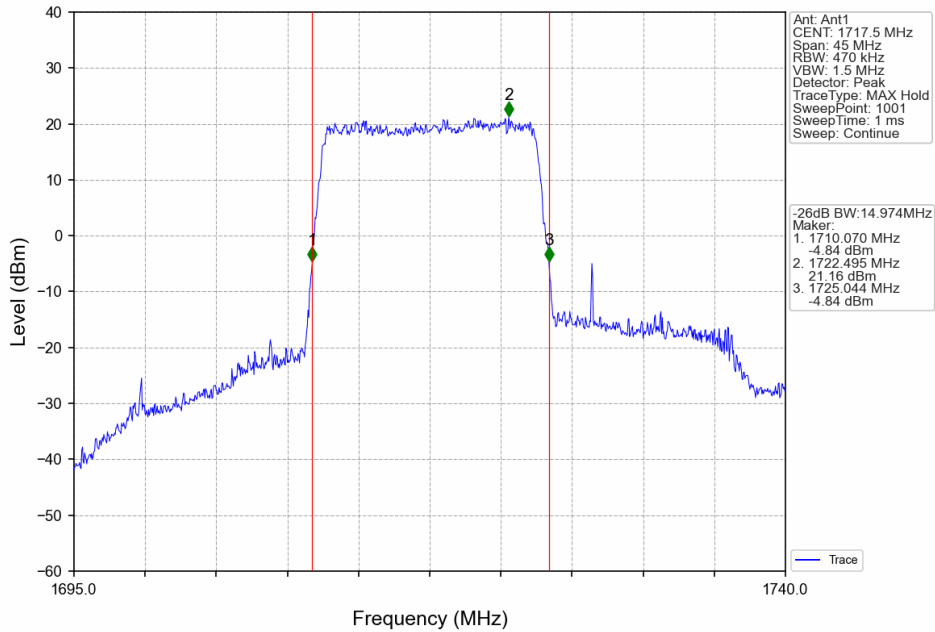
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Band66\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

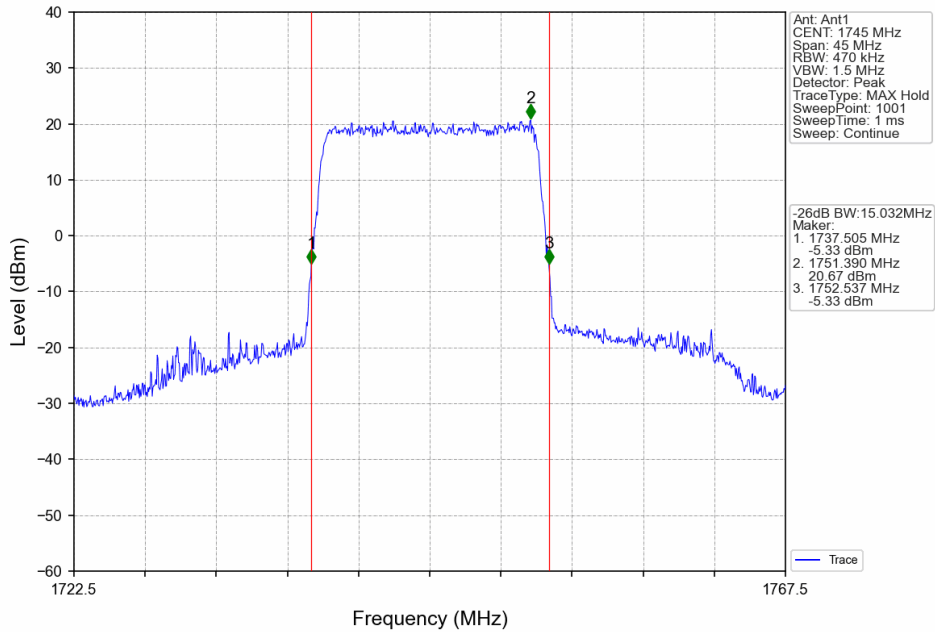


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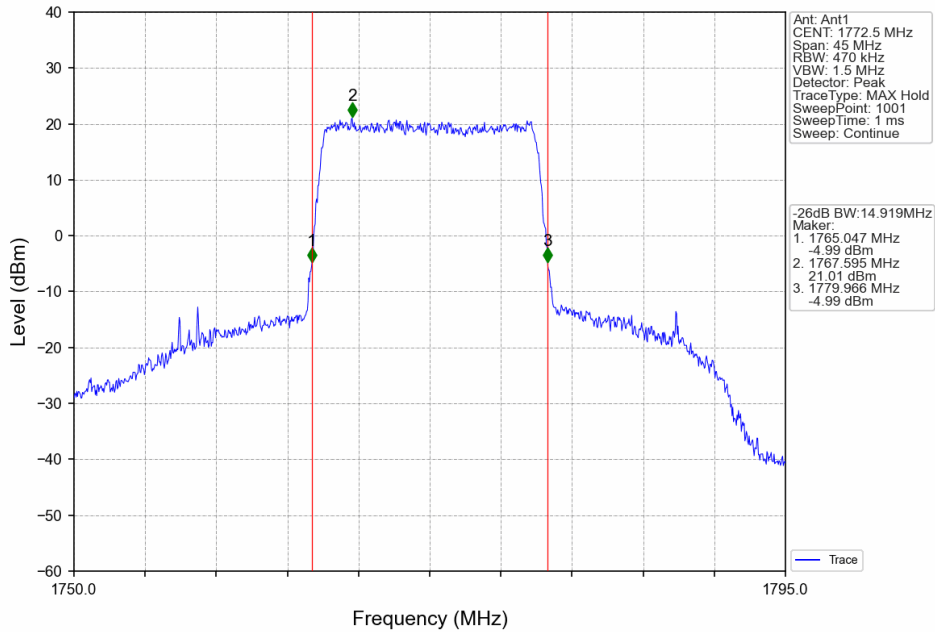


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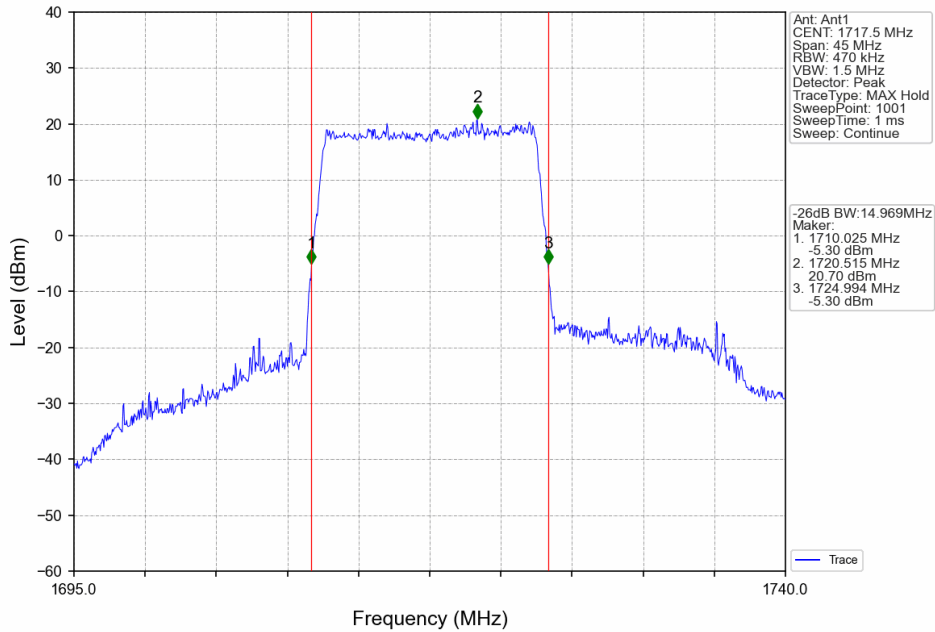


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Band66\_15MHz\_64QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

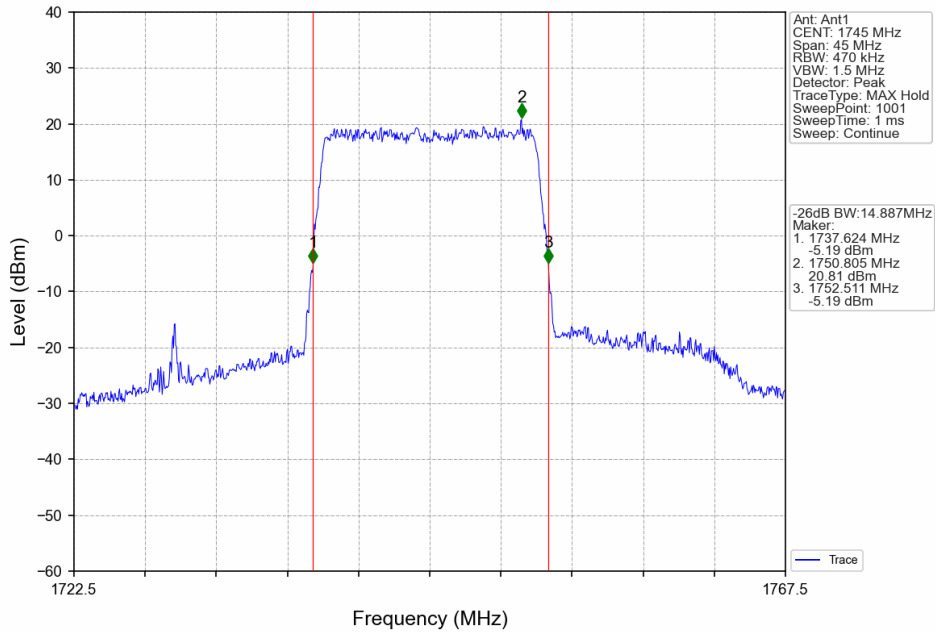


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Band66\_15MHz\_64QAM\_MCH\_1745MHz\_RB\_75\_0\_NTNV

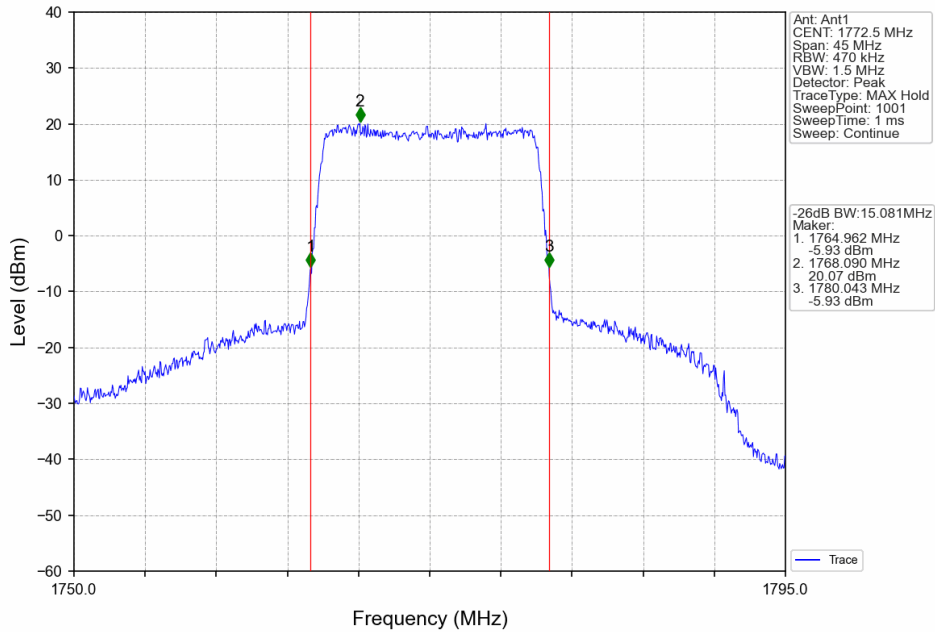


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Band66\_15MHz\_64QAM\_HCH\_1772.5MHz\_RB\_75\_0\_NTNV

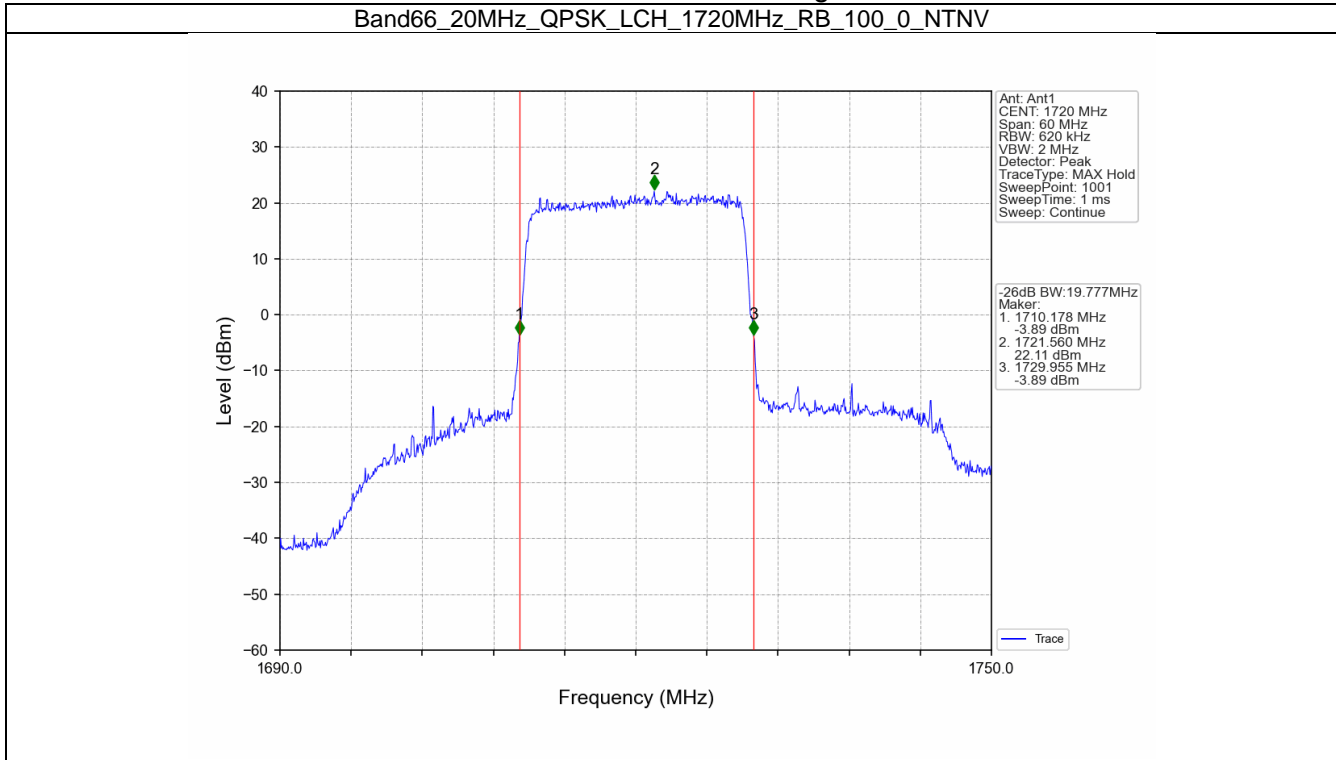


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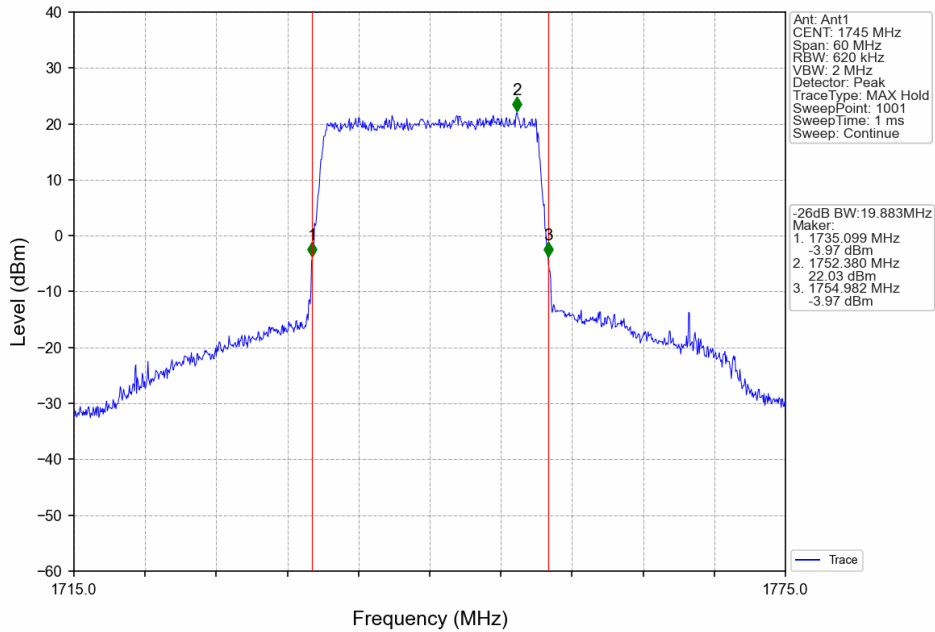


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Band66\_20MHz\_QPSK\_MCH\_1745MHz\_RB\_100\_0\_NTNV

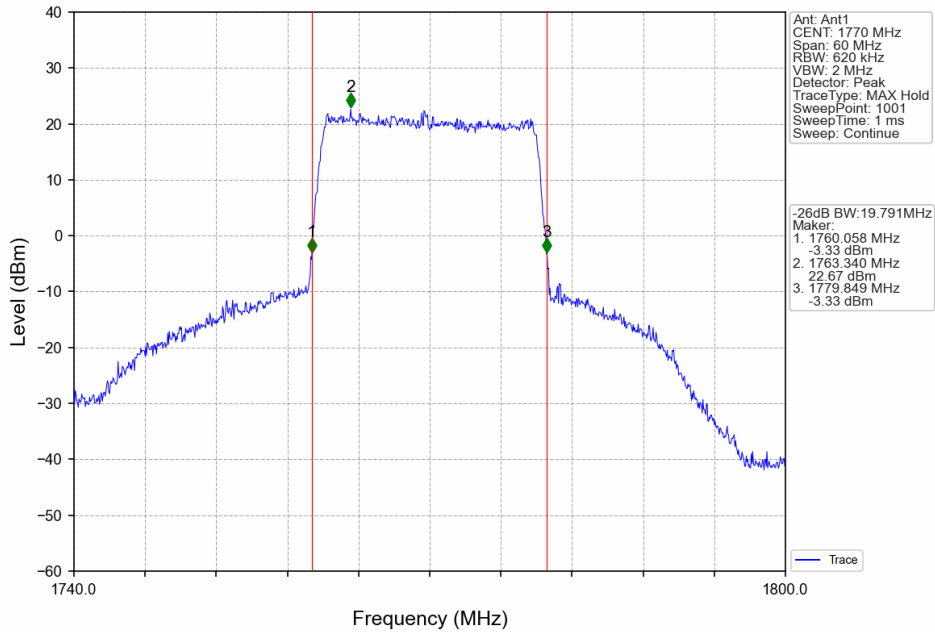


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Band66\_20MHz\_QPSK\_HCH\_1770MHz\_RB\_100\_0\_NTNV

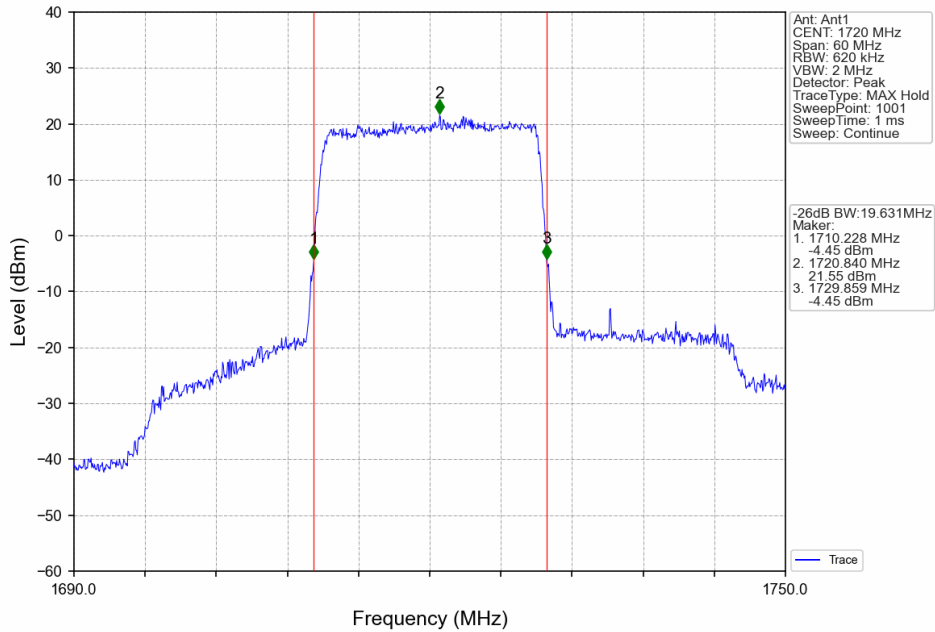


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Band66\_20MHz\_16QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV

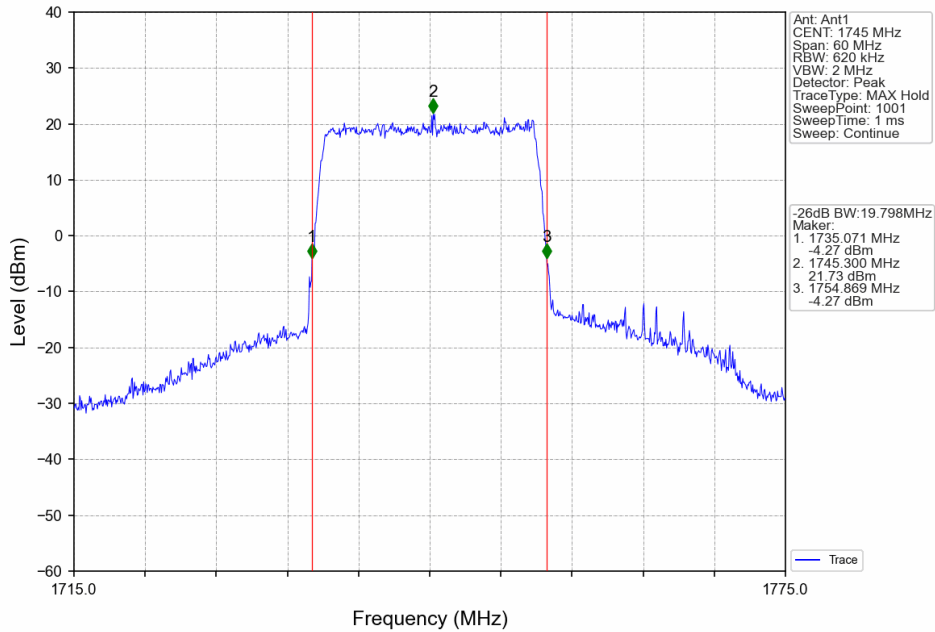


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Band66\_20MHz\_16QAM\_MCH\_1745MHz\_RB\_100\_0\_NTNV

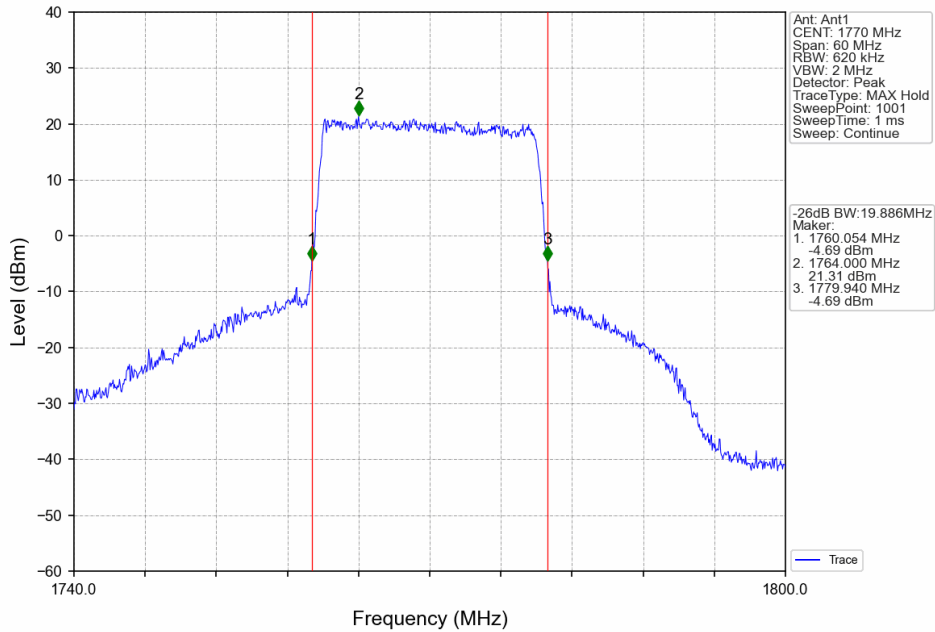


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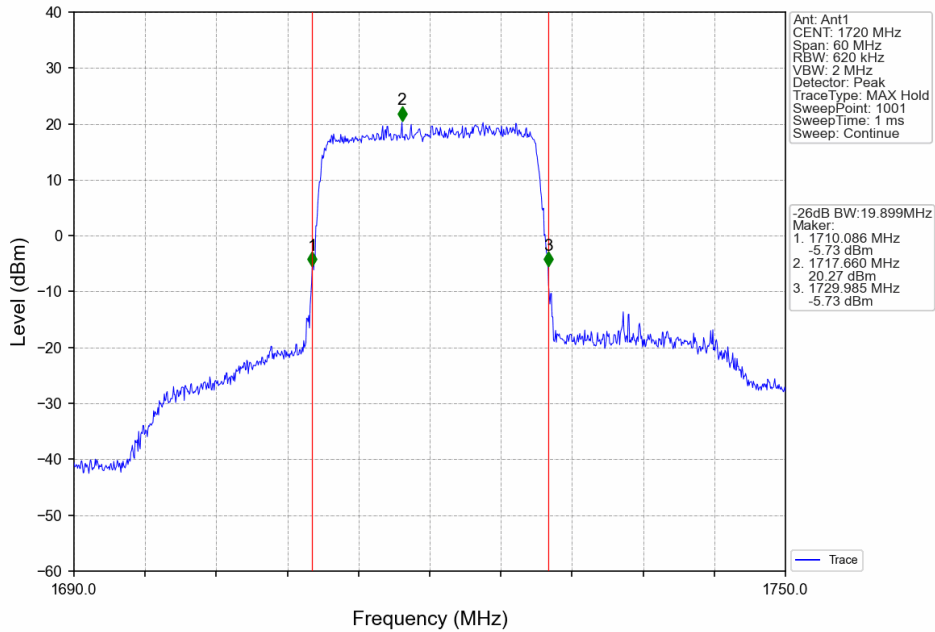
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Band66\_20MHz\_64QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV

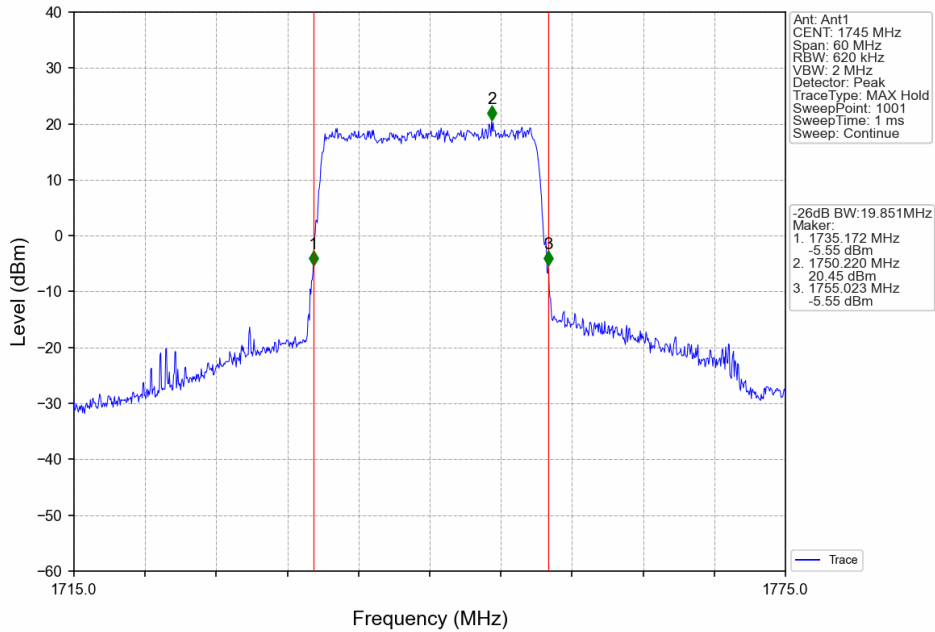


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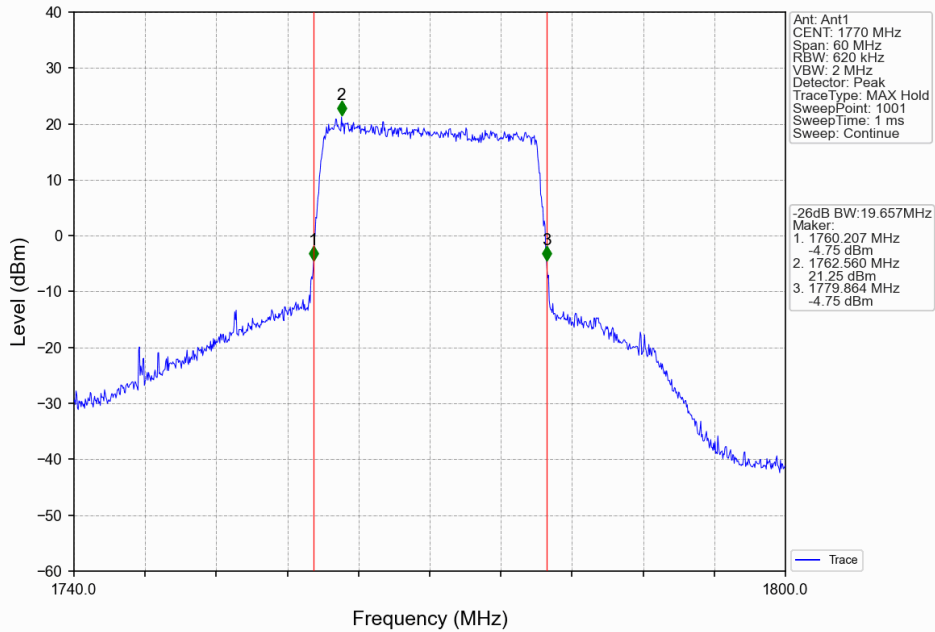


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### 3. Peak-Average Ratio

#### 3.1 B66\_1.4MHz

##### 3.1.1 Test Result

Band: 66 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.41	<=13	Pass
	1745	6	0	5.38	<=13	Pass
	1779.3	6	0	5.24	<=13	Pass
16QAM	1710.7	6	0	6.19	<=13	Pass
	1745	6	0	6.06	<=13	Pass
	1779.3	6	0	5.92	<=13	Pass
64QAM	1710.7	6	0	6.38	<=13	Pass
	1745	6	0	6.66	<=13	Pass
	1779.3	6	0	6.49	<=13	Pass

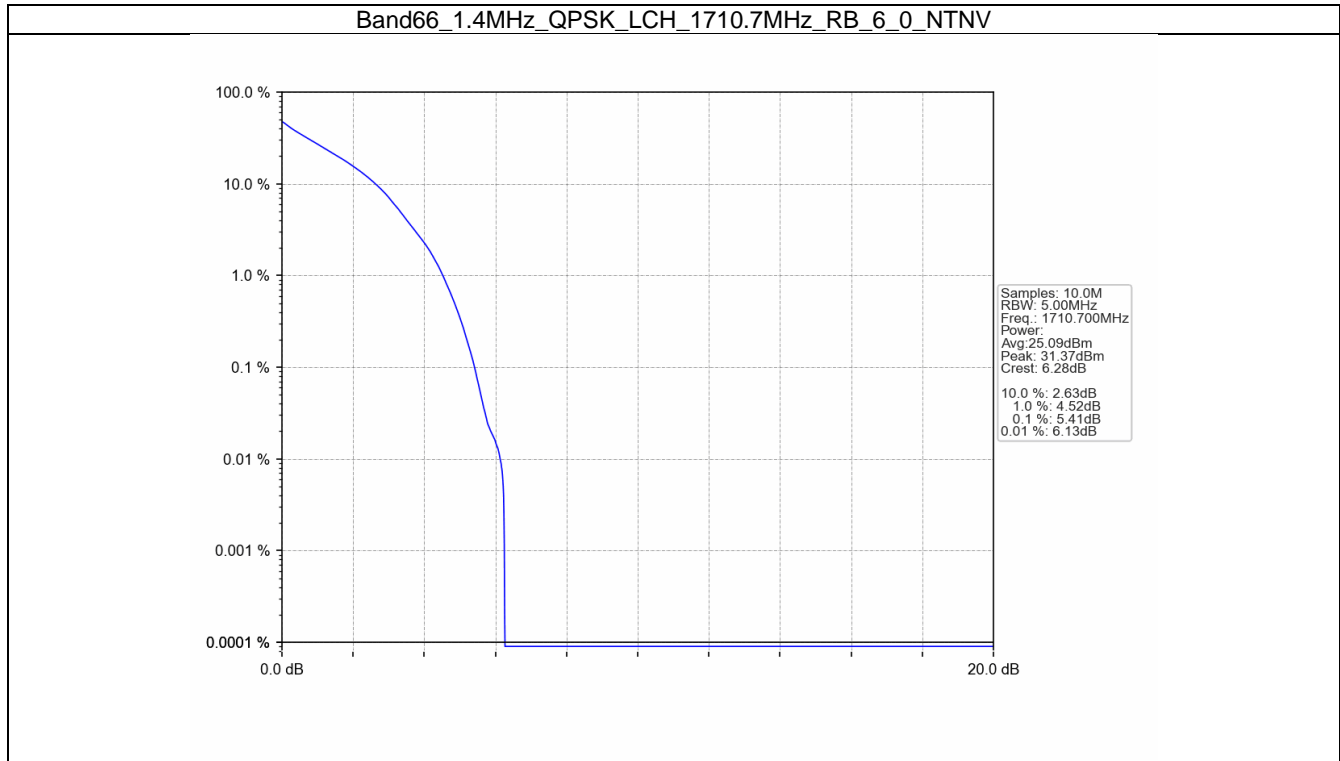


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3.1.2 Test Graph



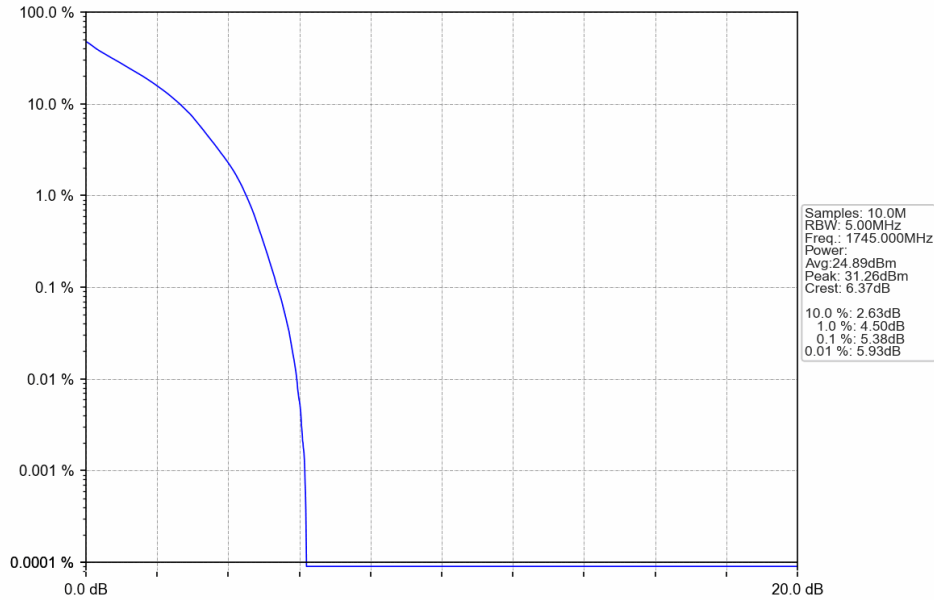
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Band66\_1.4MHz\_QPSK\_MCH\_1745MHz\_RB\_6\_0\_NTNV



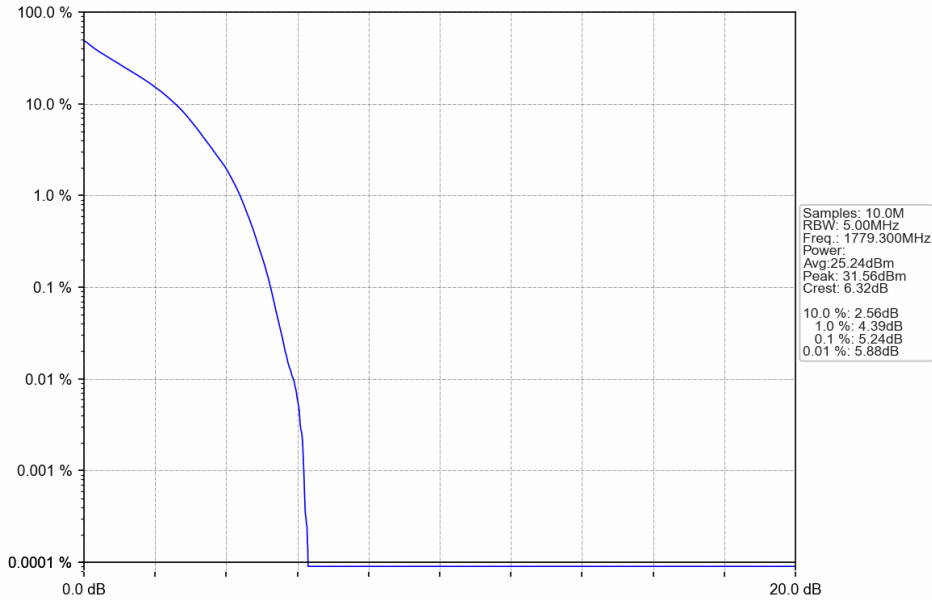
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Band66\_1.4MHz\_QPSK\_HCH\_1779.3MHz\_RB\_6\_0\_NTNV



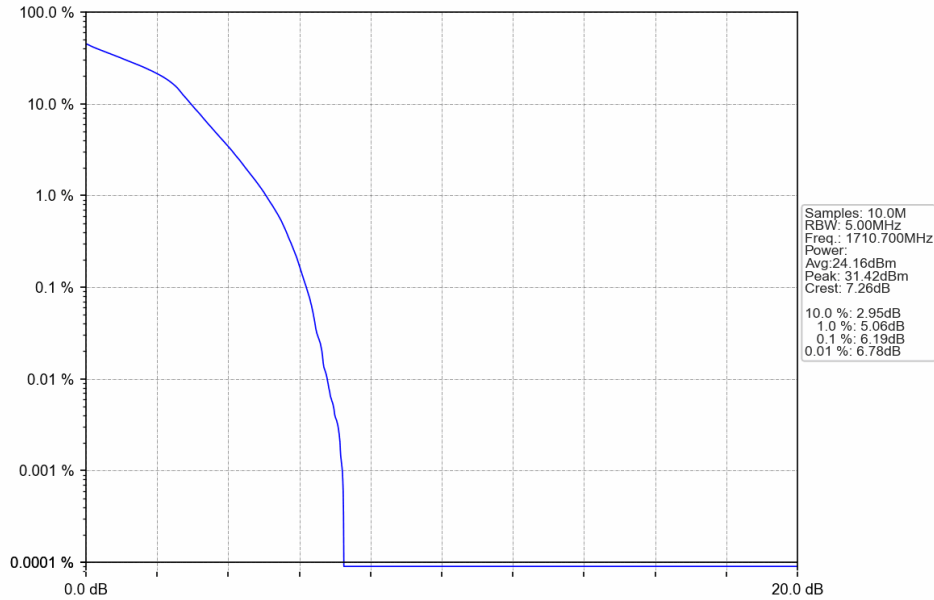
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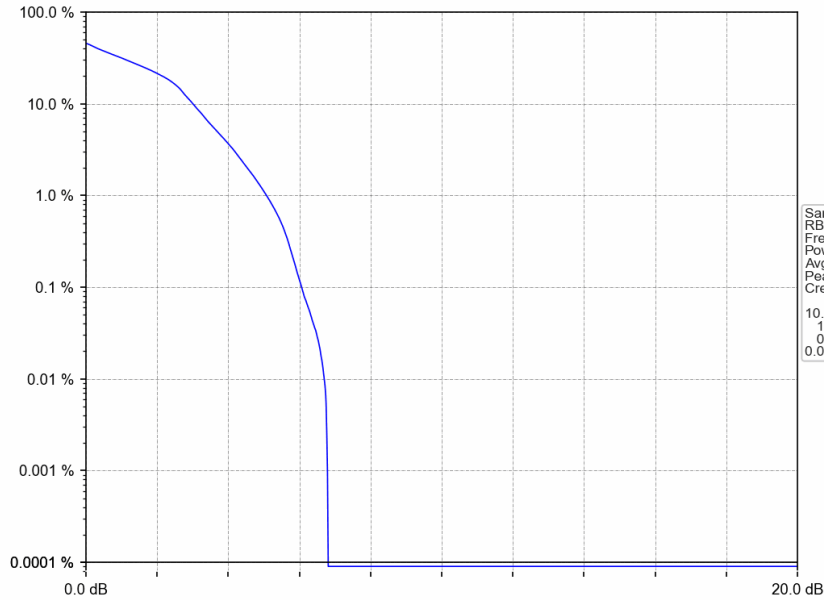
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Band66\_1.4MHz\_16QAM\_MCH\_1745MHz\_RB\_6\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg: 23.89dBm  
 Peak: 30.70dBm  
 Crest: 6.81dB

10.0 %: 3.01dB  
 1.0 %: 5.07dB  
 0.1 %: 6.06dB  
 0.01 %: 6.70dB



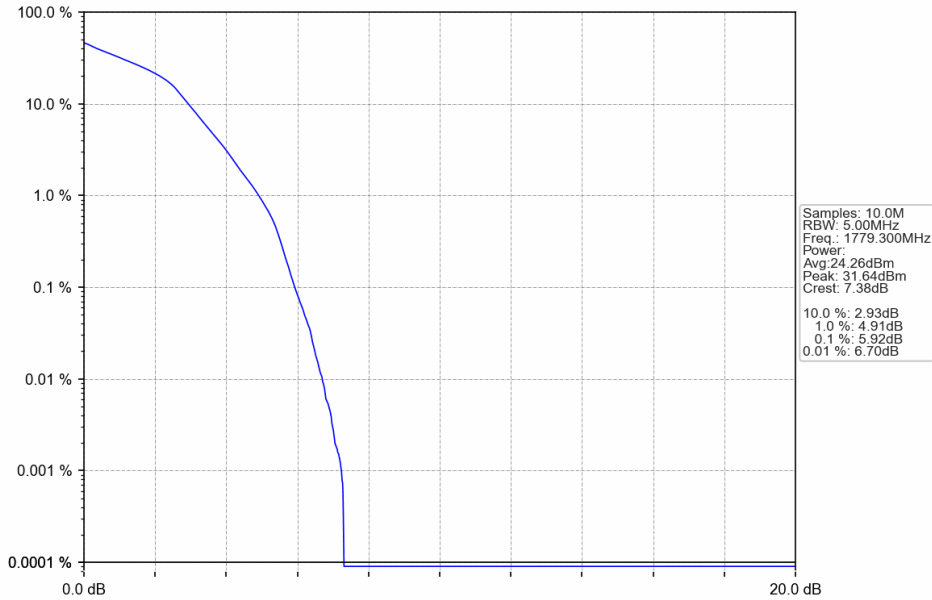
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Band66\_1.4MHz\_16QAM\_HCH\_1779.3MHz\_RB\_6\_0\_NTNV



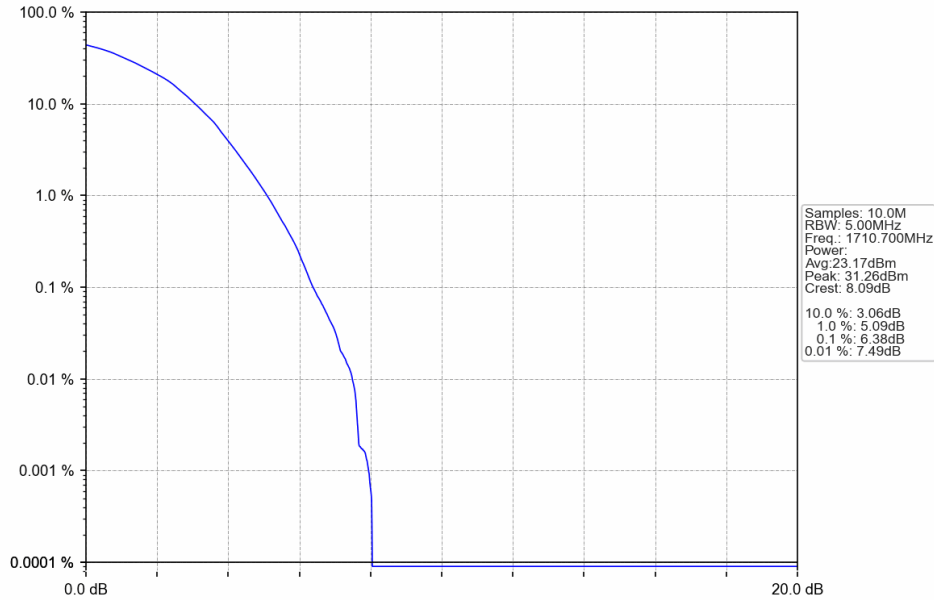
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Band66\_1.4MHz\_64QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



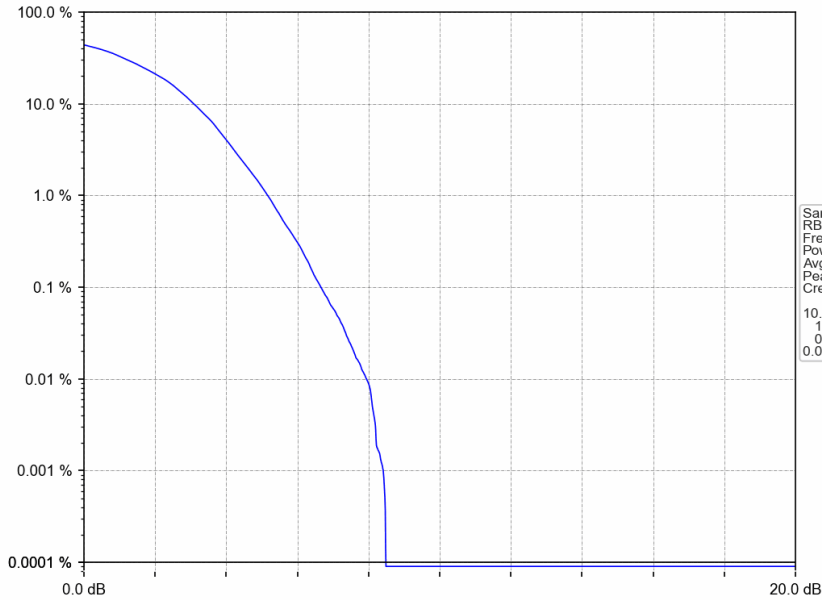
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Band66\_1.4MHz\_64QAM\_MCH\_1745MHz\_RB\_6\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg: 22.93dBm  
 Peak: 31.42dBm  
 Crest: 8.49dB

10.0 %: 3.08dB  
 1.0 %: 5.16dB  
 0.1 %: 6.66dB  
 0.01 %: 7.94dB



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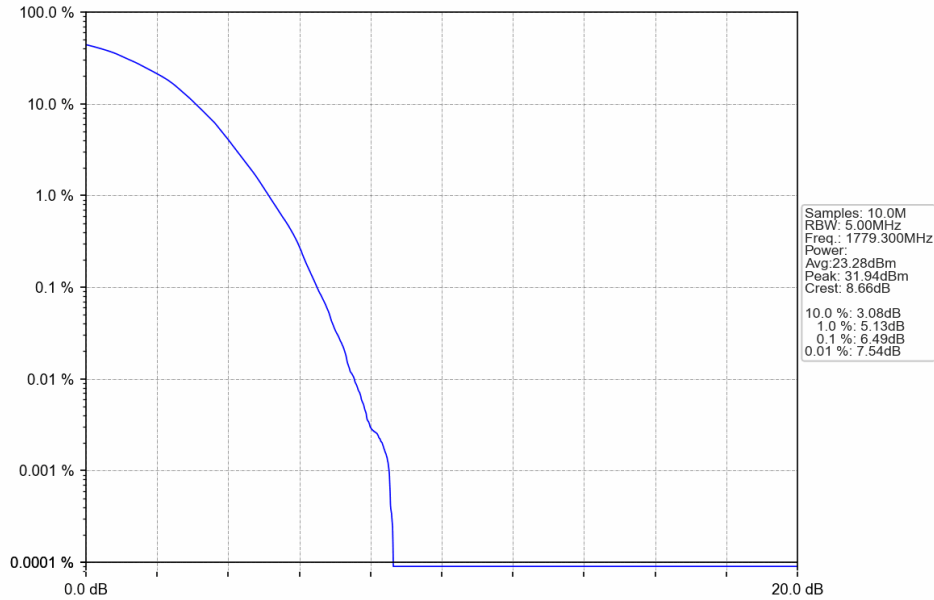
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3.2 B66\_3MHz

3.2.1 Test Result

Band: 66 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.31	<=13	Pass
	1745	15	0	5.25	<=13	Pass
	1778.5	15	0	5.17	<=13	Pass
16QAM	1711.5	15	0	6.08	<=13	Pass
	1745	15	0	5.99	<=13	Pass
	1778.5	15	0	5.88	<=13	Pass
64QAM	1711.5	15	0	6.63	<=13	Pass
	1745	15	0	6.64	<=13	Pass
	1778.5	15	0	6.47	<=13	Pass

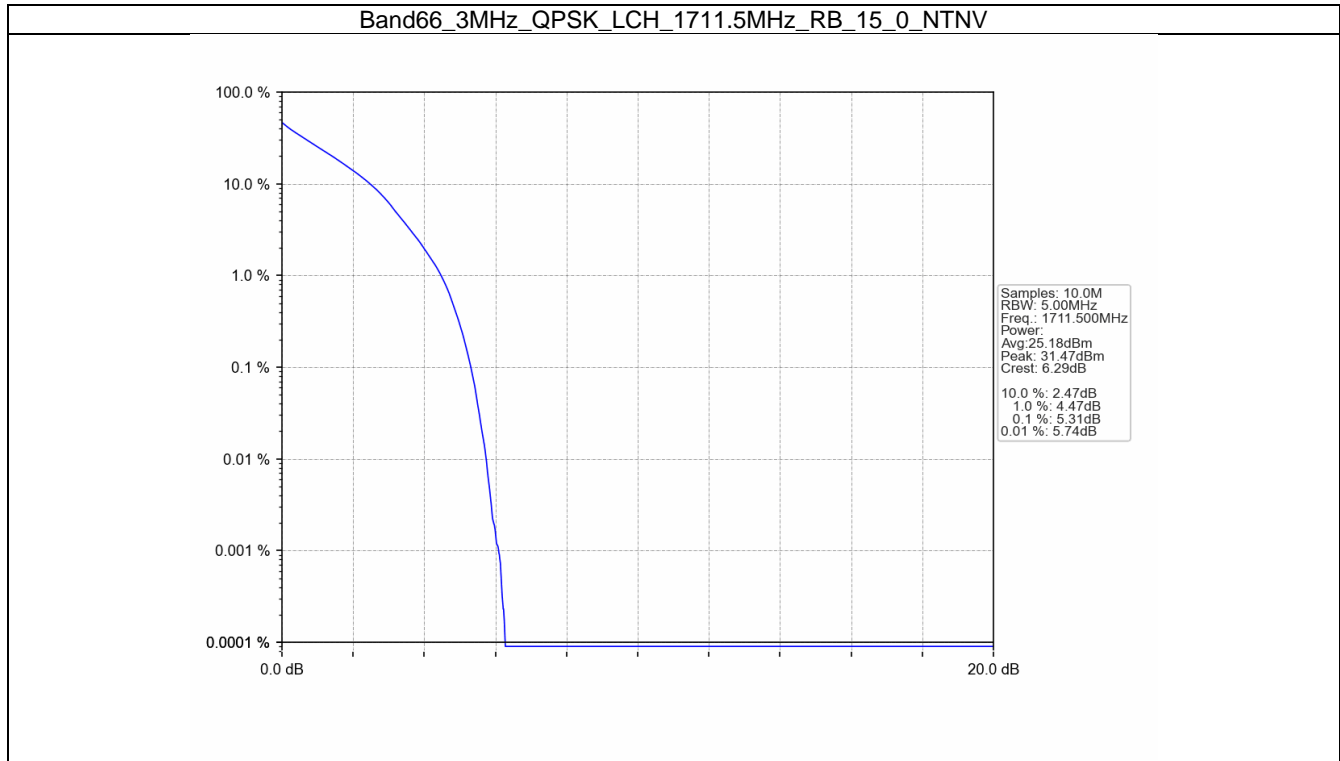


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3.2.2 Test Graph



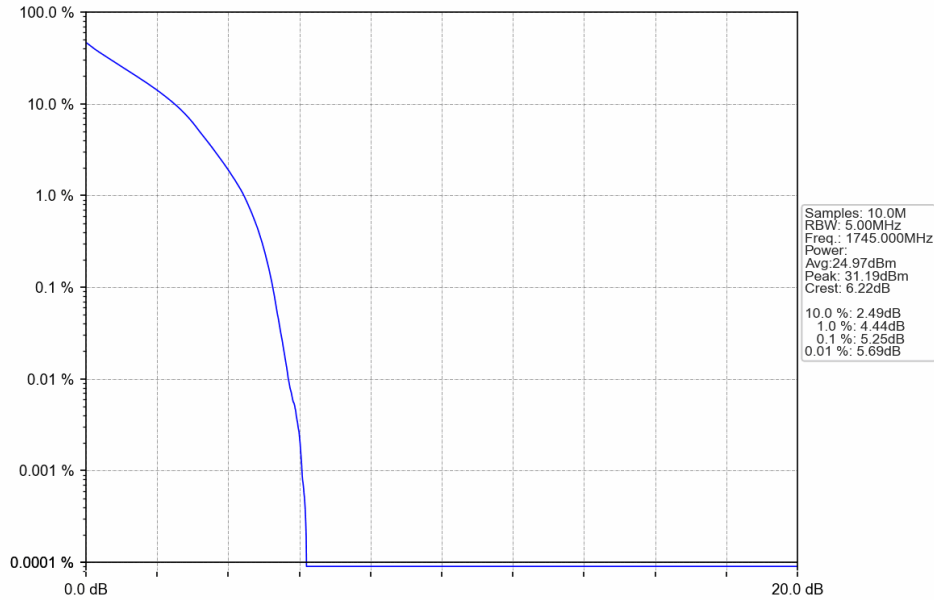
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Band66\_3MHz\_QPSK\_MCH\_1745MHz\_RB\_15\_0\_NTNV



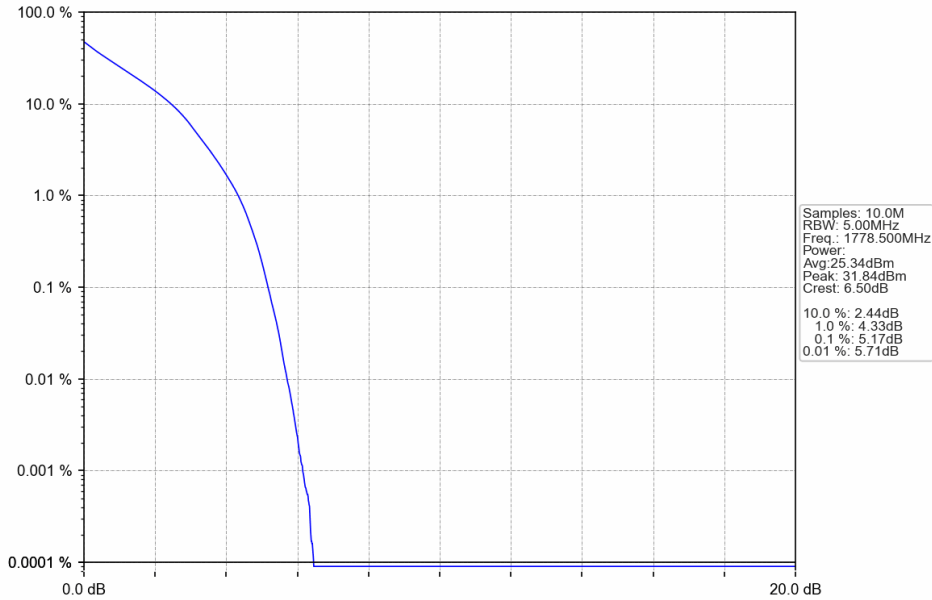
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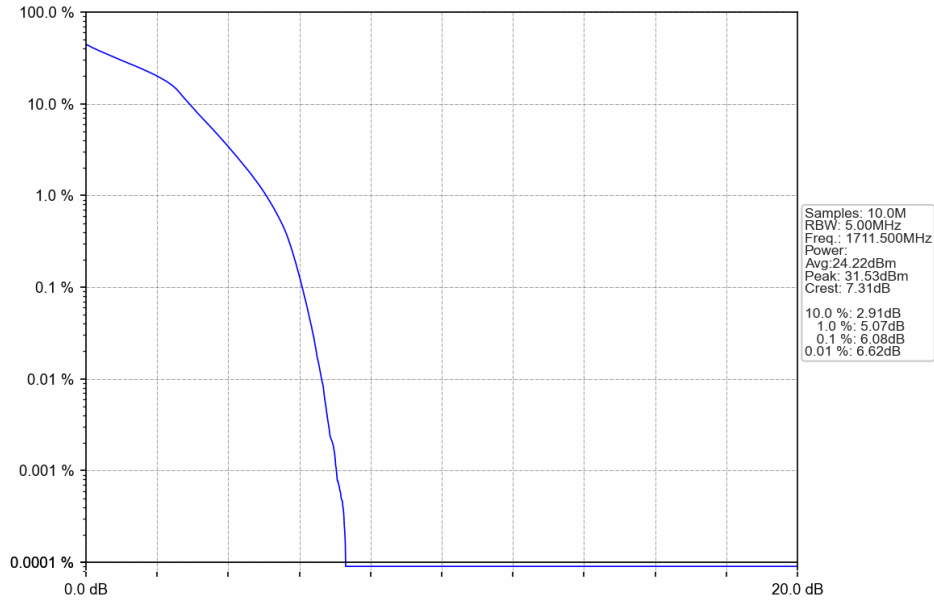
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Band66\_3MHz\_16QAM\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV



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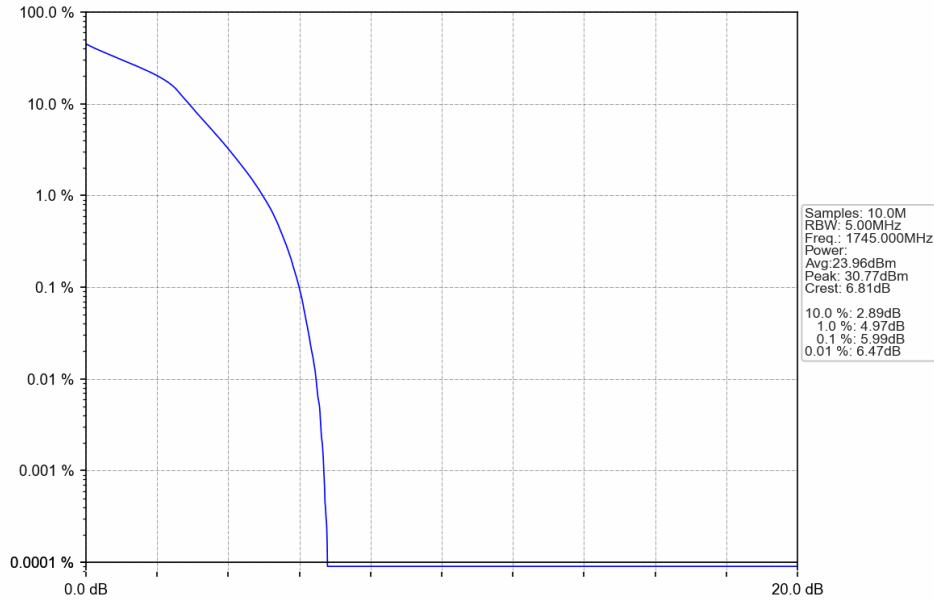
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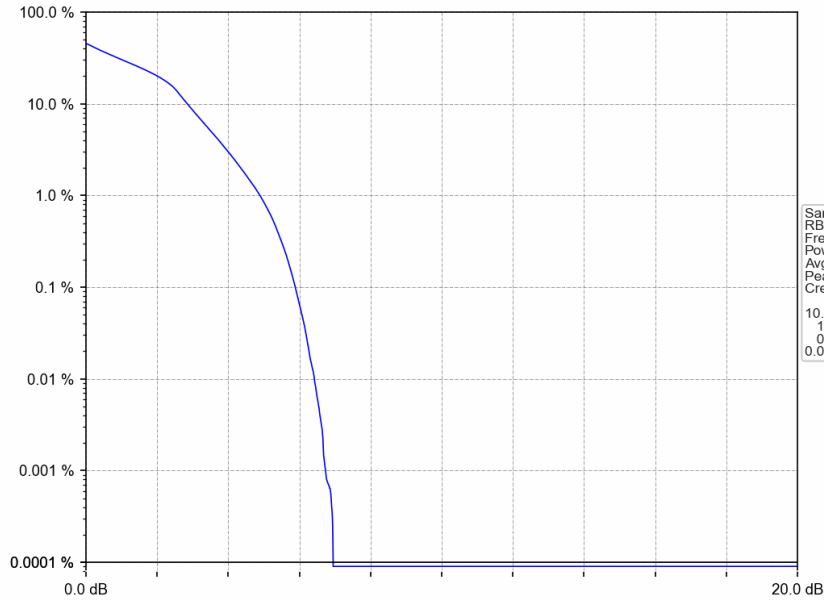
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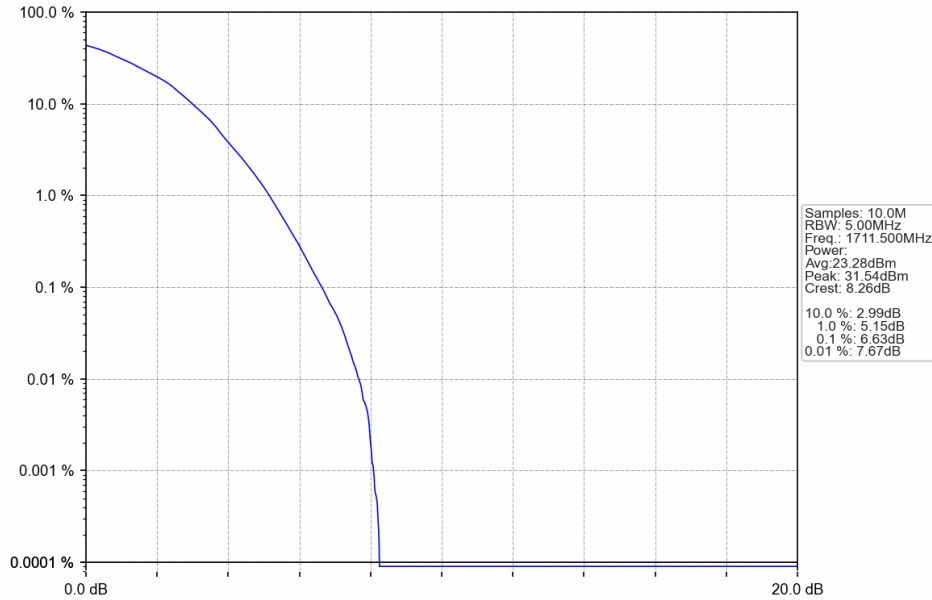
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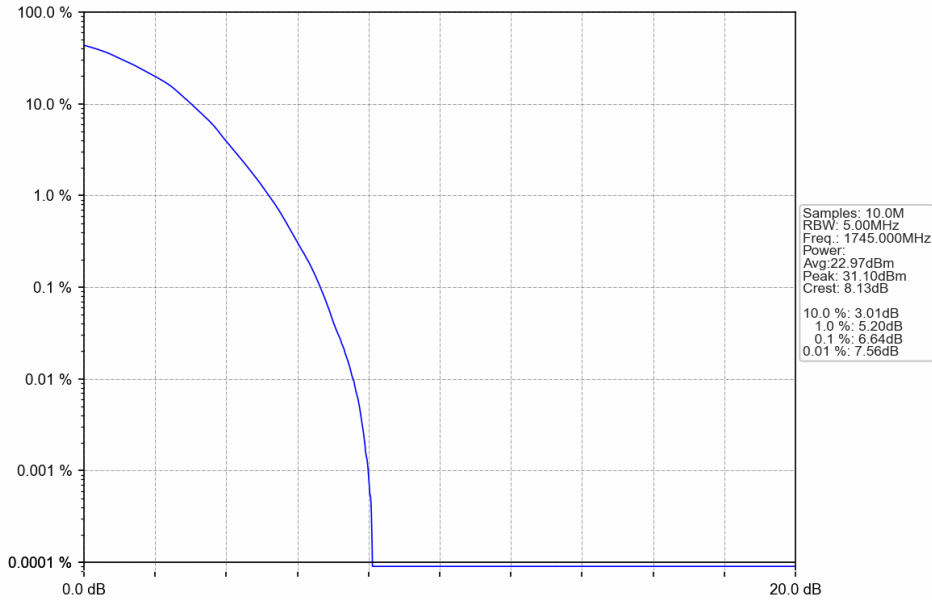
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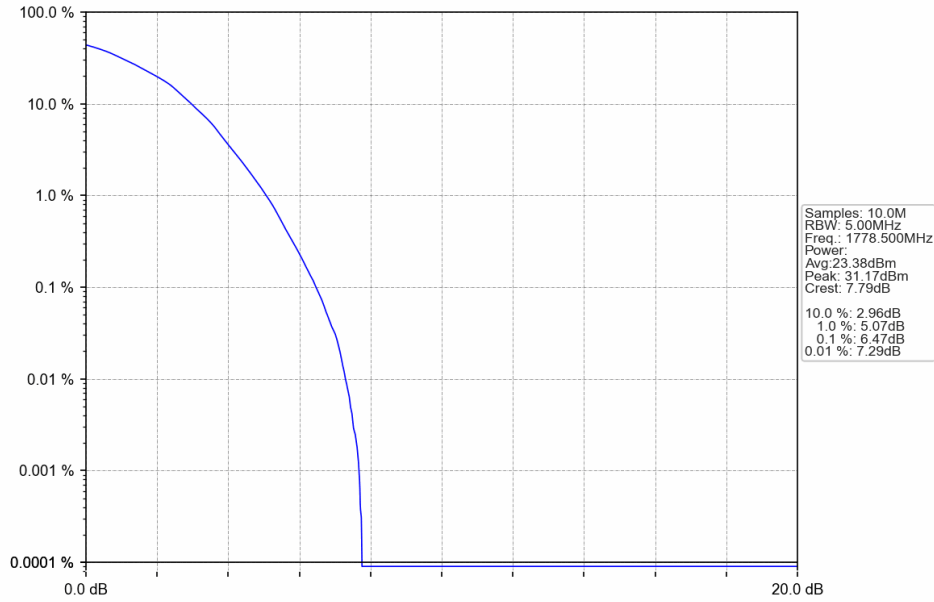
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Band66\_3MHz\_64QAM\_HCH\_1778.5MHz\_RB\_15\_0\_NTNV



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3.3 B66\_5MHz

3.3.1 Test Result

Band: 66 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.39	<=13	Pass
	1745	25	0	5.29	<=13	Pass
	1777.5	25	0	5.24	<=13	Pass
16QAM	1712.5	25	0	6.09	<=13	Pass
	1745	25	0	6.01	<=13	Pass
	1777.5	25	0	5.93	<=13	Pass
64QAM	1712.5	25	0	6.56	<=13	Pass
	1745	25	0	6.52	<=13	Pass
	1777.5	25	0	6.47	<=13	Pass



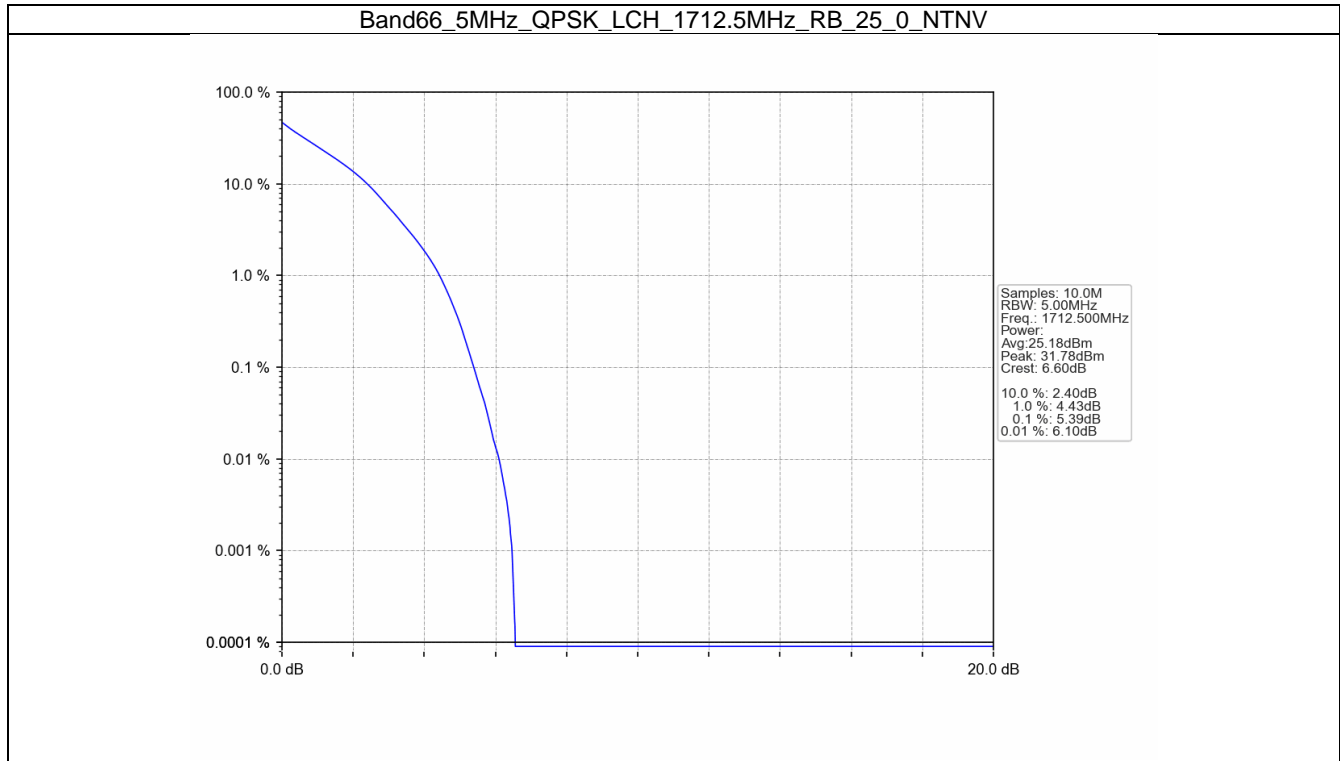
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3.3.2 Test Graph

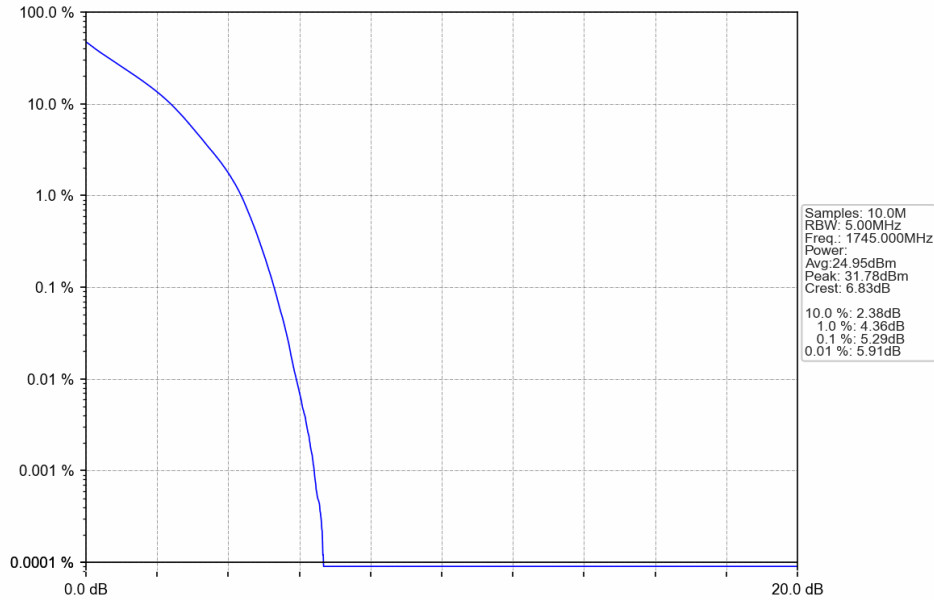


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Band66\_5MHz\_QPSK\_MCH\_1745MHz\_RB\_25\_0\_NTNV



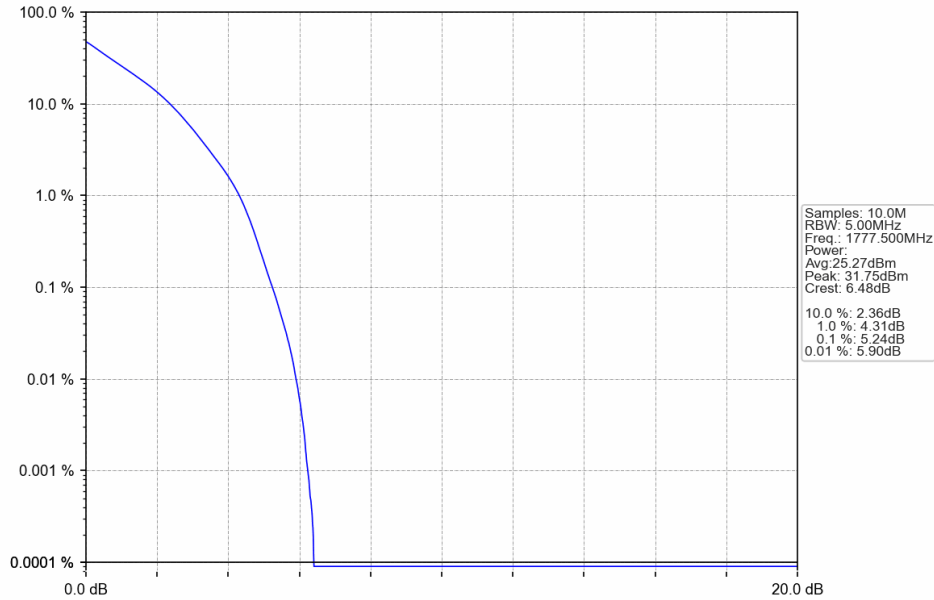
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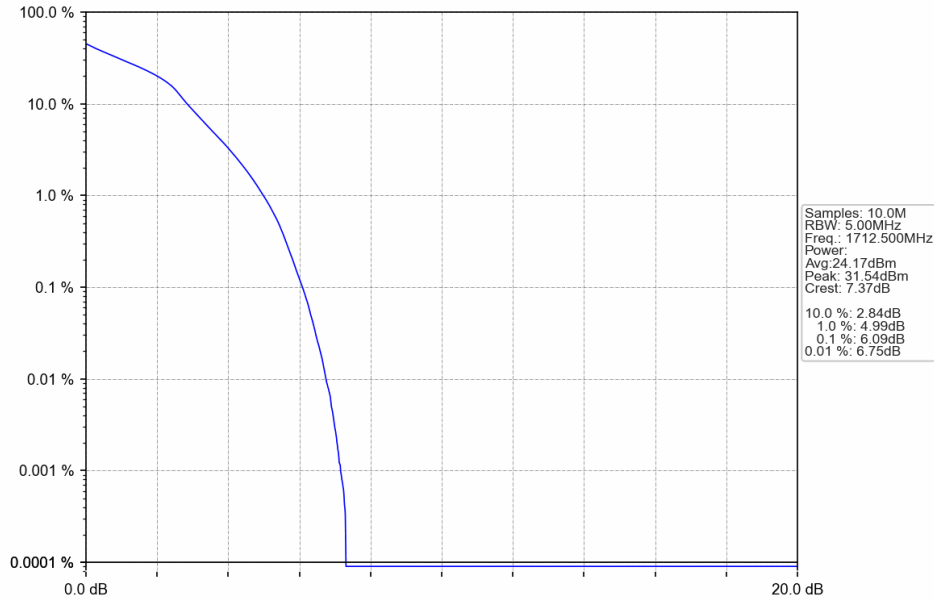
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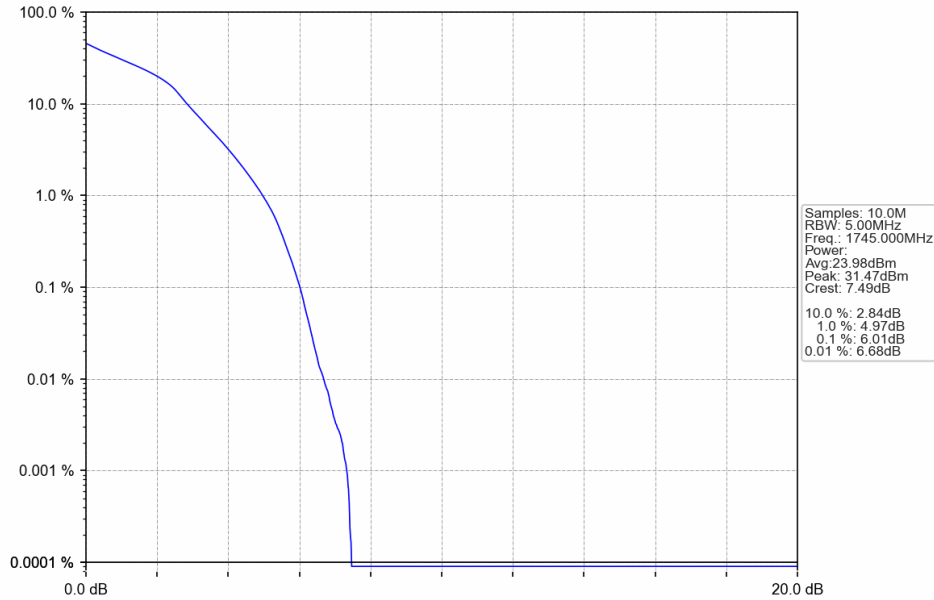


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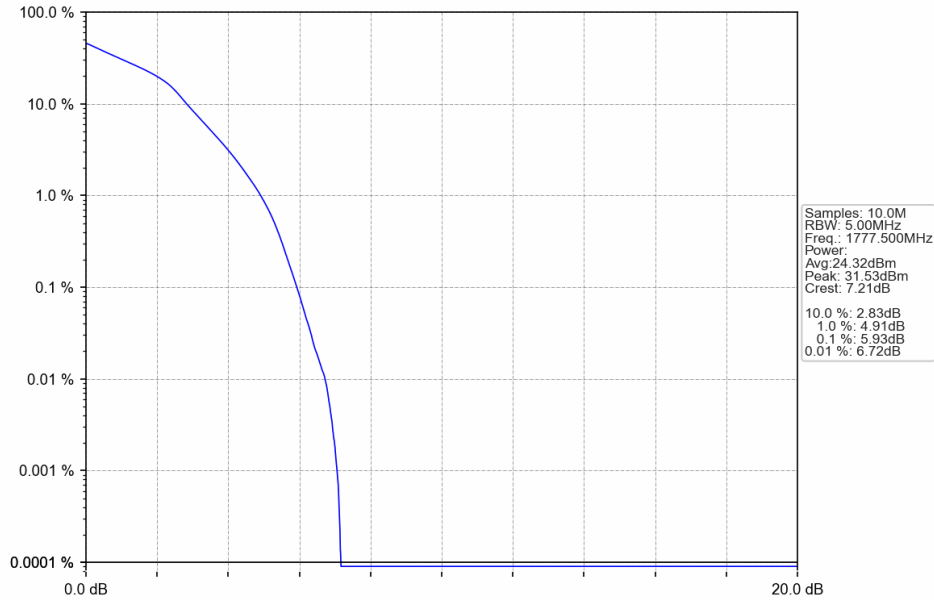
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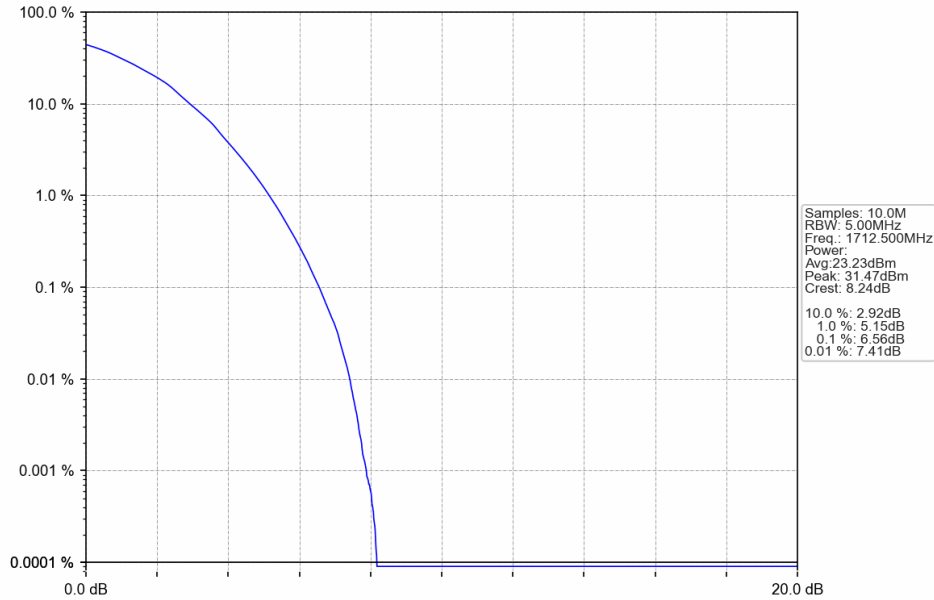
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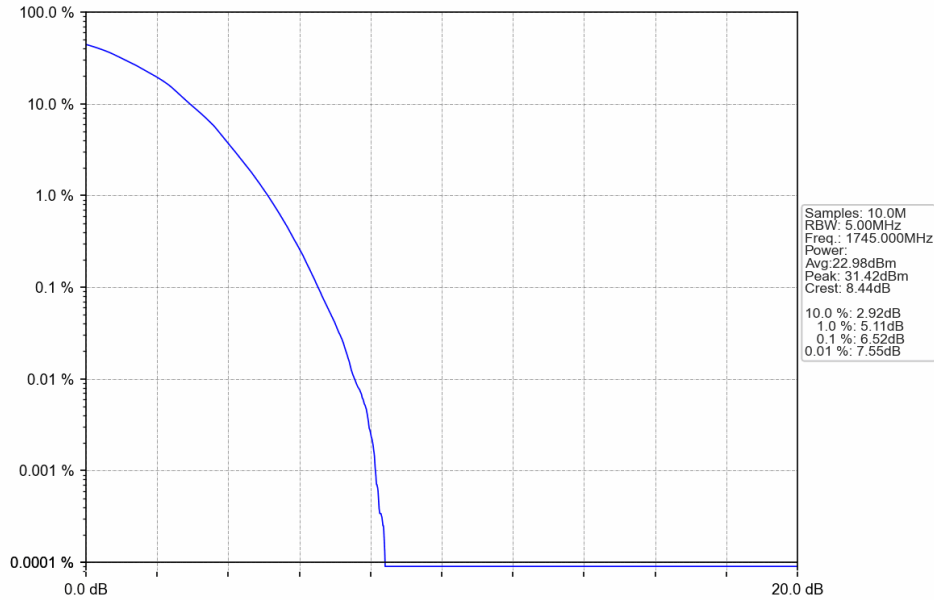
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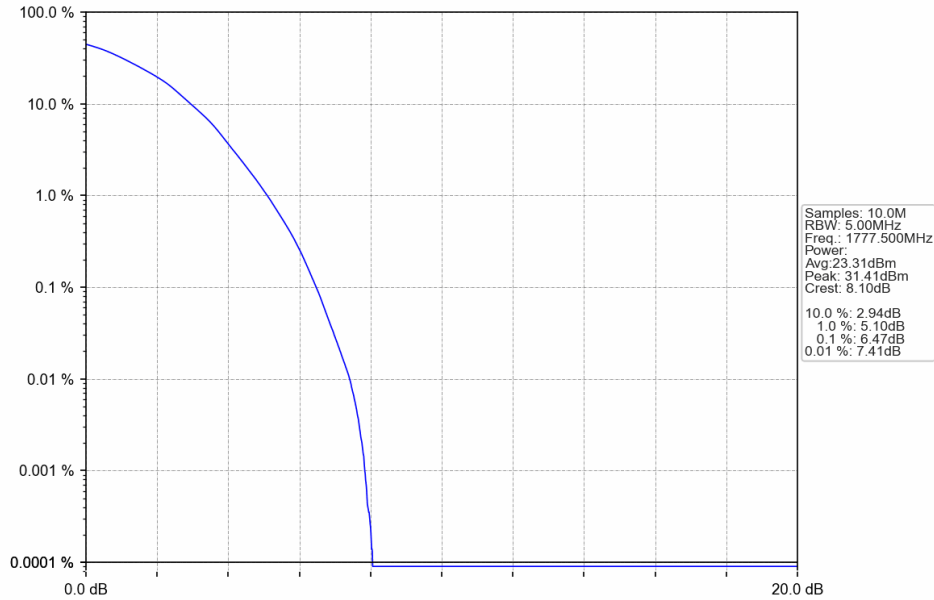


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3.4 B66\_10MHz

3.4.1 Test Result

Band: 66 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.31	<=13	Pass
	1745	50	0	5.27	<=13	Pass
	1775	50	0	5.27	<=13	Pass
16QAM	1715	50	0	6.05	<=13	Pass
	1745	50	0	6.00	<=13	Pass
	1775	50	0	5.99	<=13	Pass
64QAM	1715	50	0	6.57	<=13	Pass
	1745	50	0	6.59	<=13	Pass
	1775	50	0	6.51	<=13	Pass



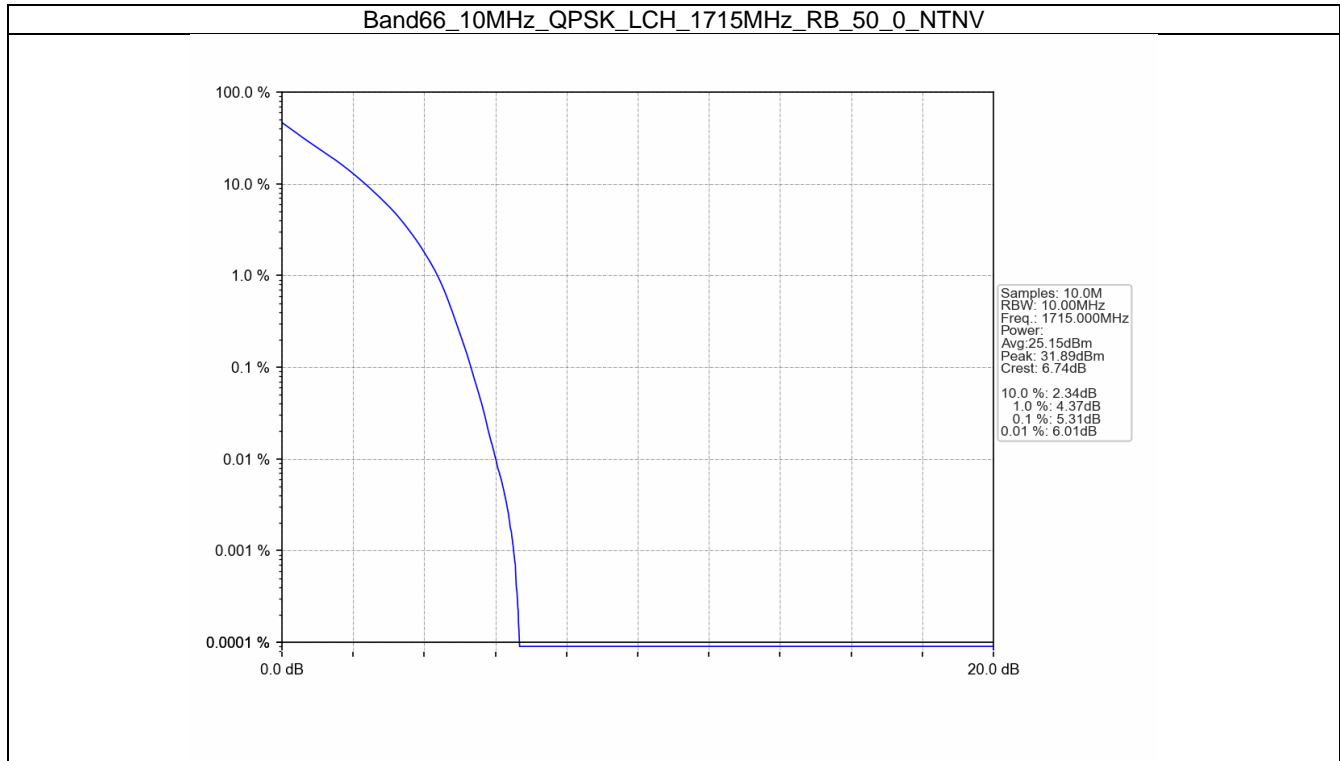
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3.4.2 Test Graph



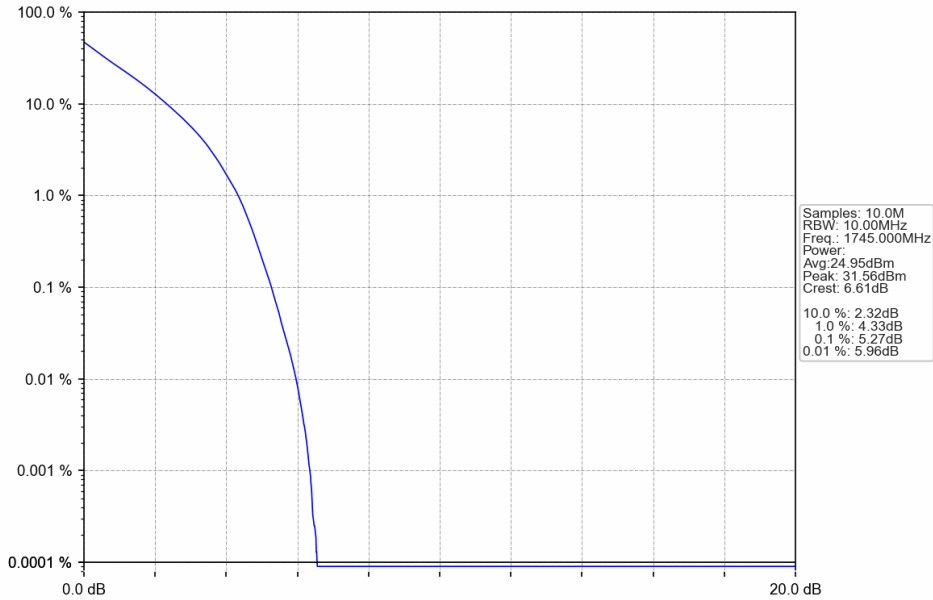
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Band66\_10MHz\_QPSK\_MCH\_1745MHz\_RB\_50\_0\_NTNV



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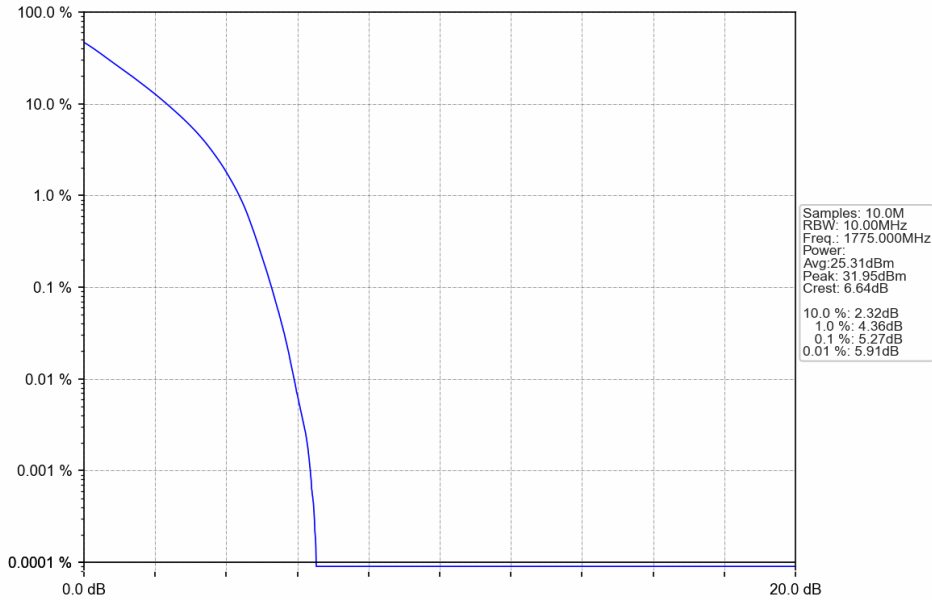
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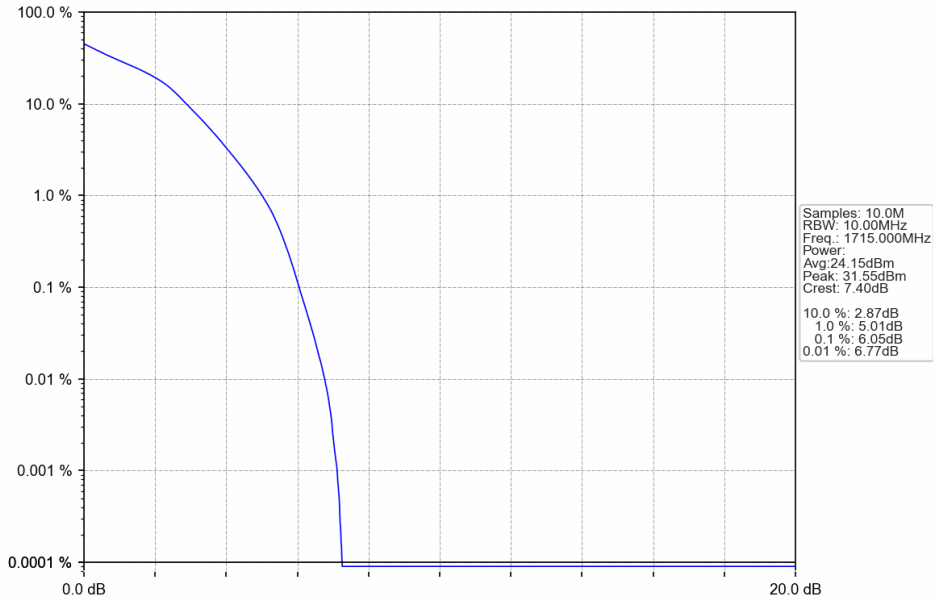
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Band66\_10MHz\_16QAM\_LCH\_1715MHz\_RB\_50\_0\_NTNV



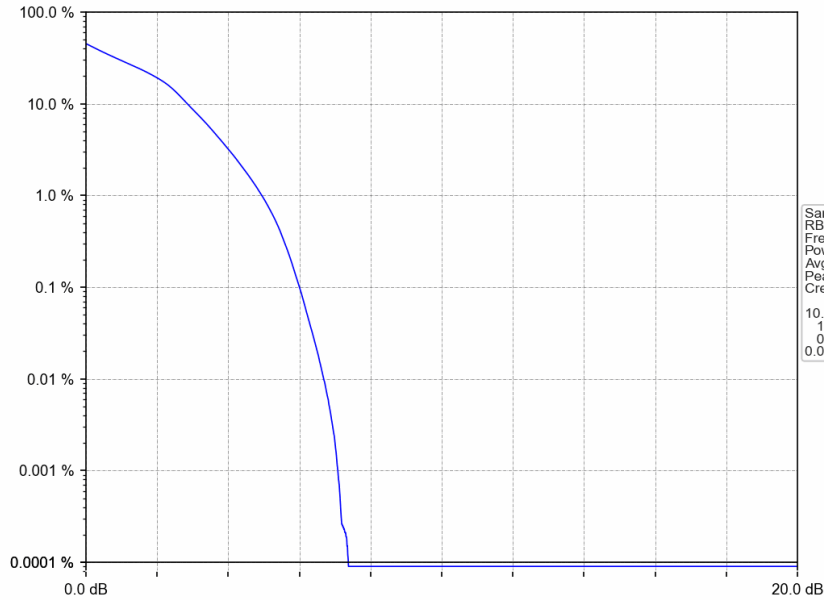
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Band66\_10MHz\_16QAM\_MCH\_1745MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
 RBW: 10.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg: 23.96dBm  
 Peak: 31.56dBm  
 Crest: 7.60dB

10.0 %: 2.85dB  
 1.0 %: 4.94dB  
 0.1 %: 6.00dB  
 0.01 %: 6.68dB



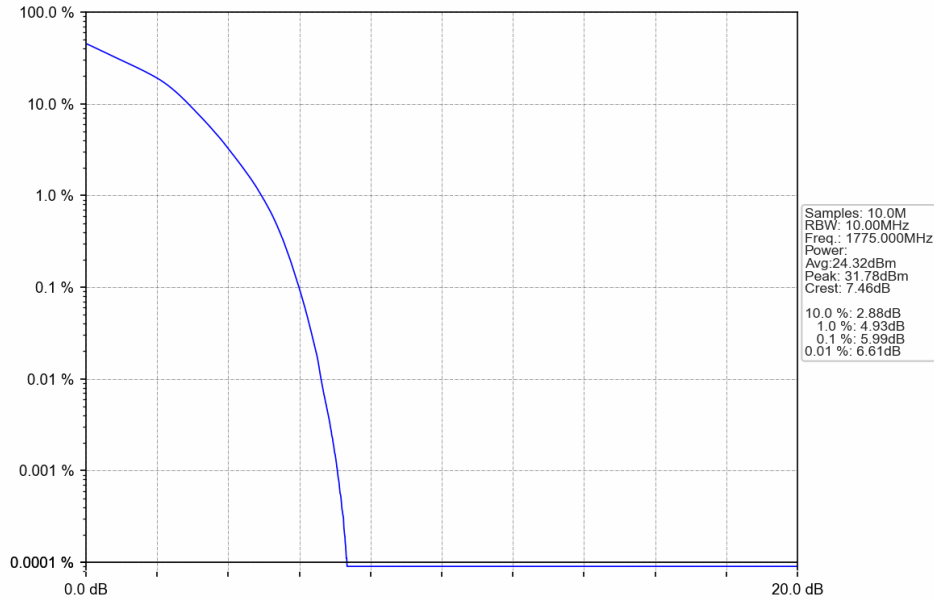
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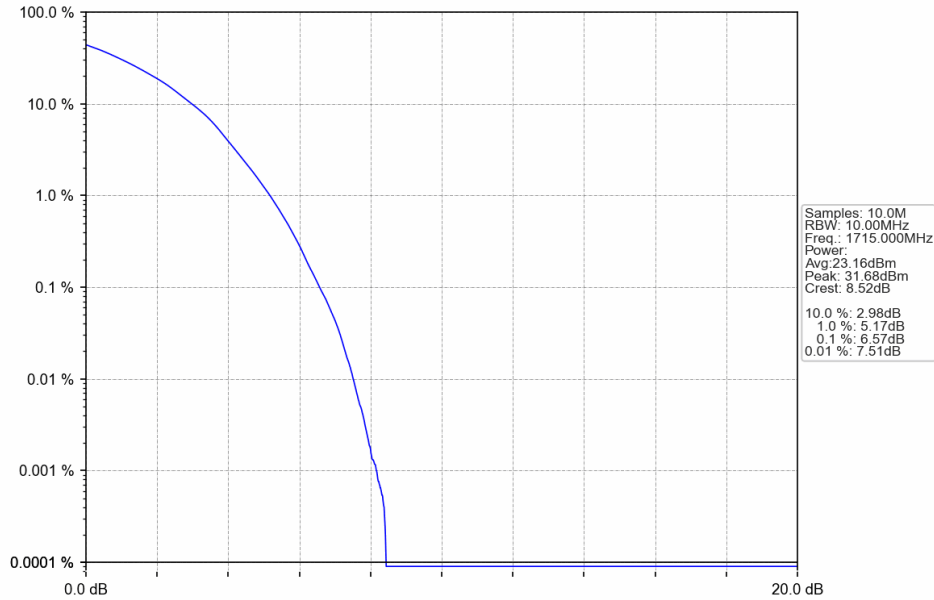
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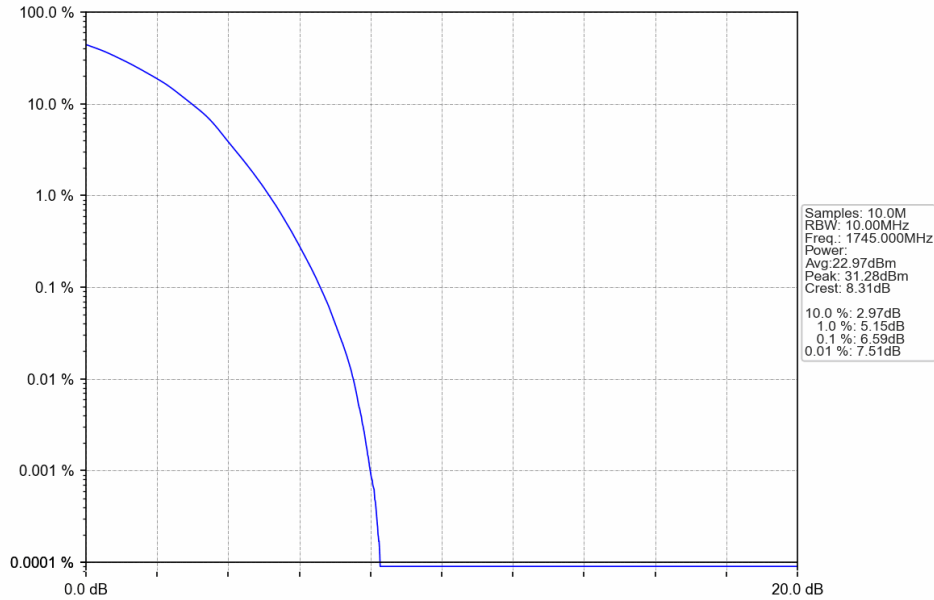
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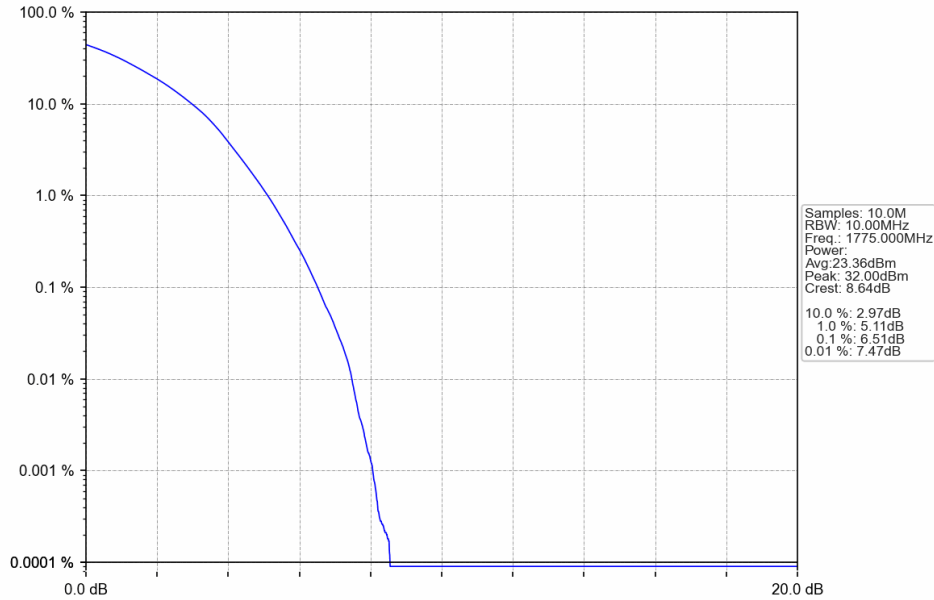
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3.5 B66\_15MHz

3.5.1 Test Result

Band: 66 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.64	<=13	Pass
	1745	75	0	5.64	<=13	Pass
	1772.5	75	0	5.75	<=13	Pass
16QAM	1717.5	75	0	6.11	<=13	Pass
	1745	75	0	6.19	<=13	Pass
	1772.5	75	0	6.18	<=13	Pass
64QAM	1717.5	75	0	6.51	<=13	Pass
	1745	75	0	6.58	<=13	Pass
	1772.5	75	0	6.63	<=13	Pass

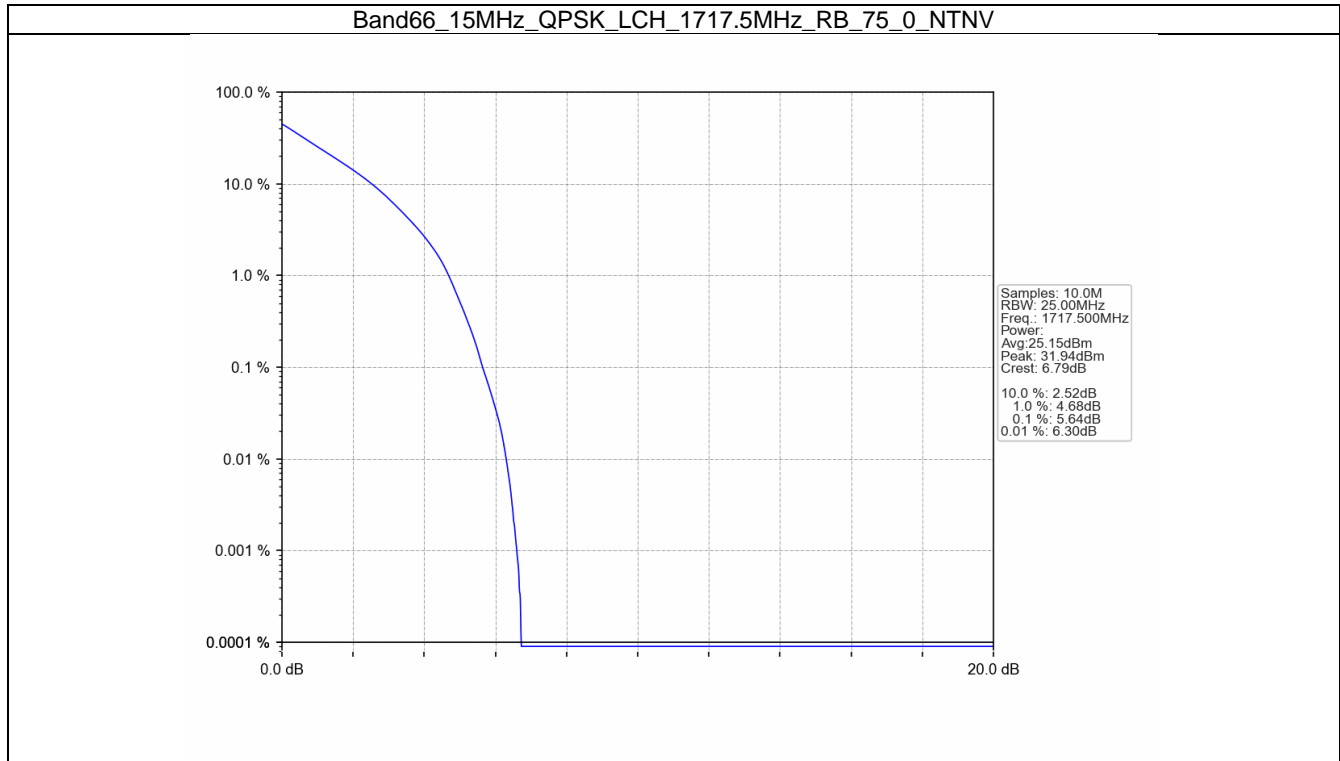


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3.5.2 Test Graph



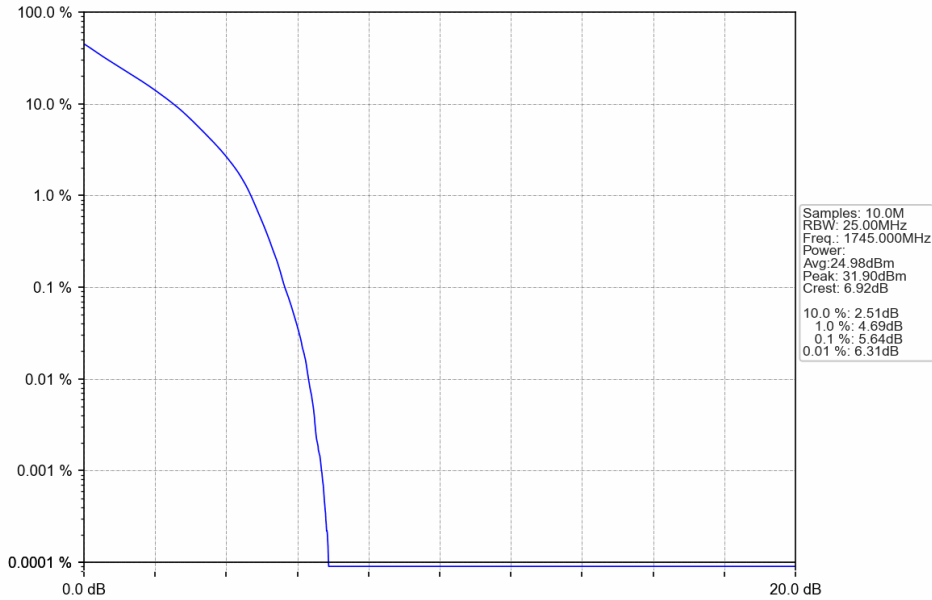
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Band66\_15MHz\_QPSK\_MCH\_1745MHz\_RB\_75\_0\_NTNV



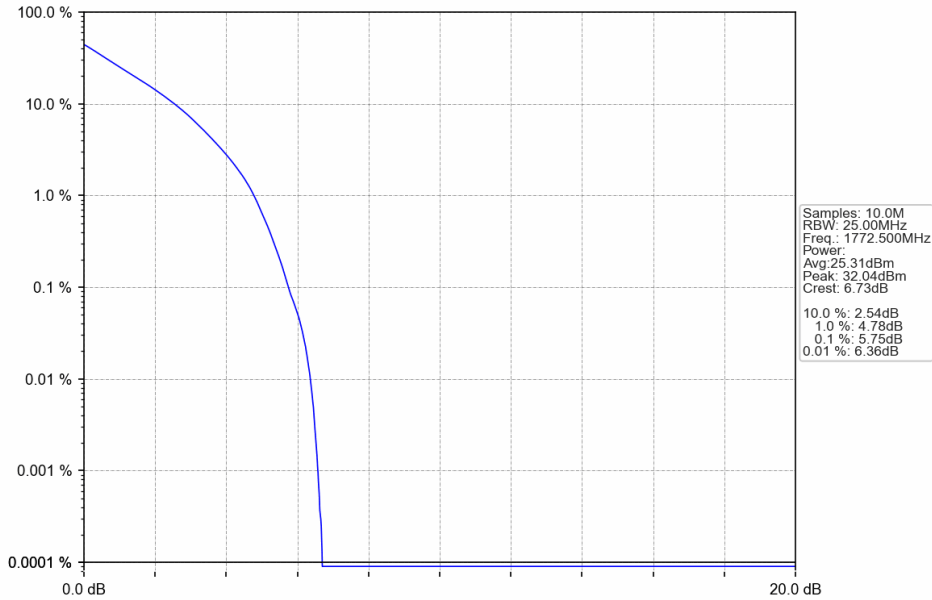
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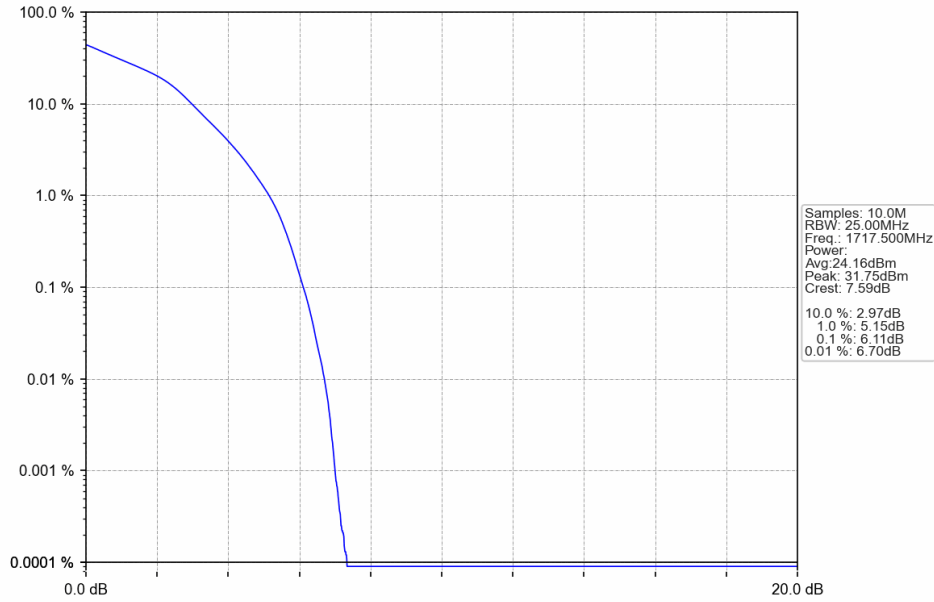
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Band66\_15MHz\_16QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



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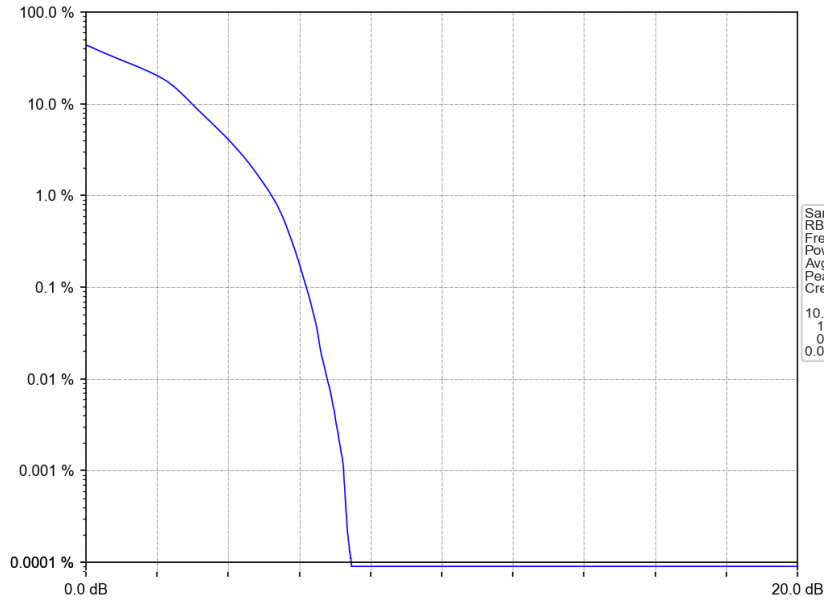
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Band66\_15MHz\_16QAM\_MCH\_1745MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg: 23.99dBm  
 Peak: 31.50dBm  
 Crest: 7.51dB

10.0 %: 2.98dB  
 1.0 %: 5.22dB  
 0.1 %: 6.19dB  
 0.01 %: 6.78dB



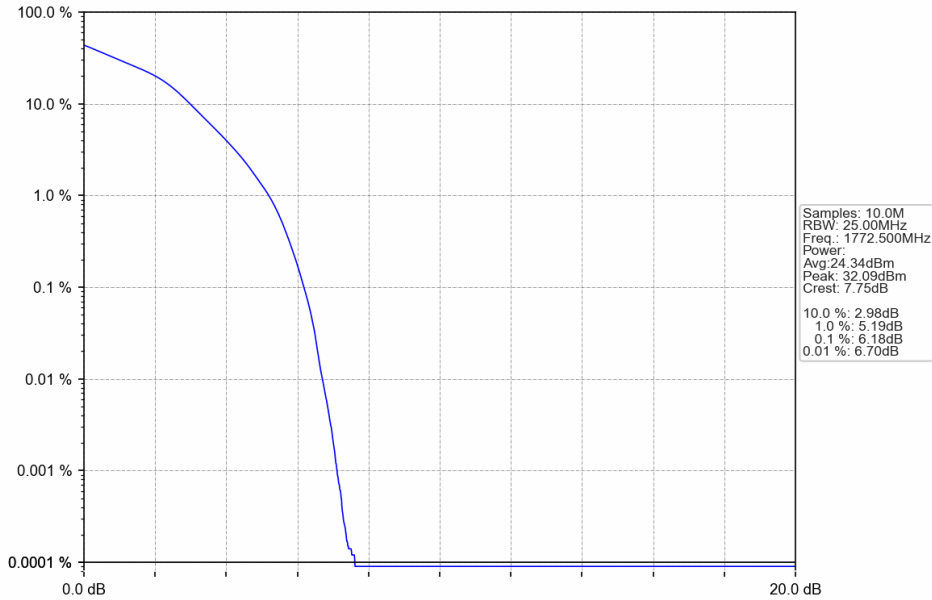
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Band66\_15MHz\_16QAM\_HCH\_1772.5MHz\_RB\_75\_0\_NTNV



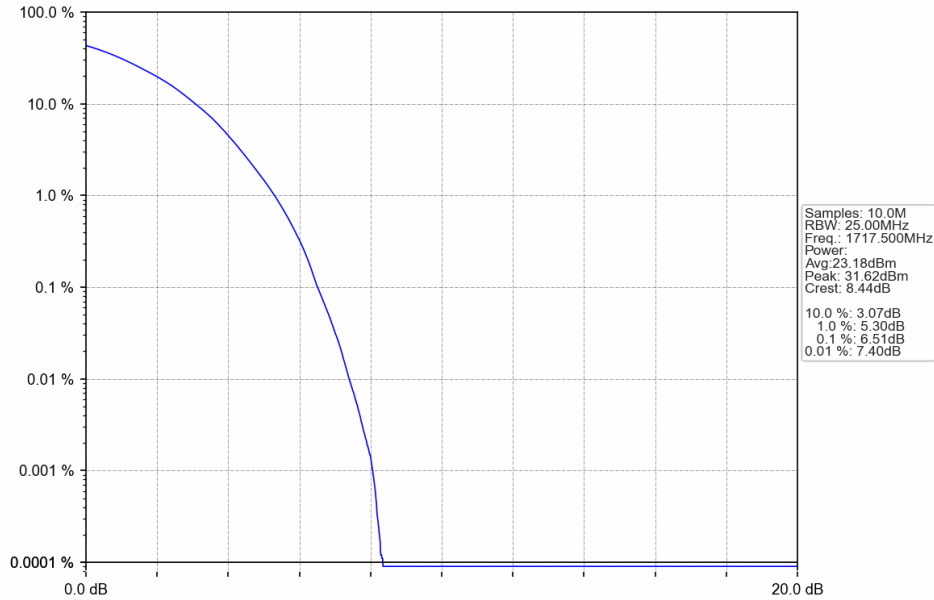
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Band66\_15MHz\_64QAM\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV



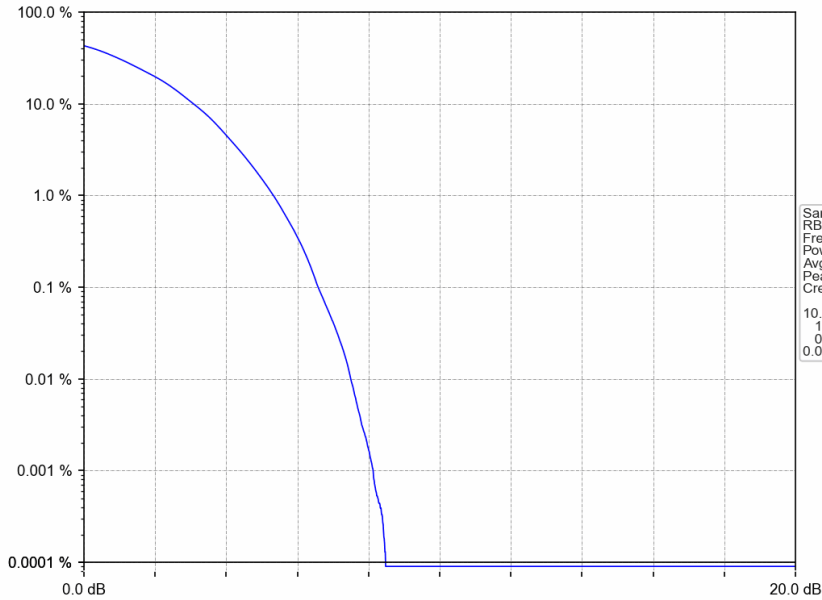
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Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg:23.00dBm  
 Peak: 31.61dBm  
 Crest: 8.61dB

10.0 %: 3.08dB  
 1.0 %: 5.33dB  
 0.1 %: 6.58dB  
 0.01 %: 7.50dB



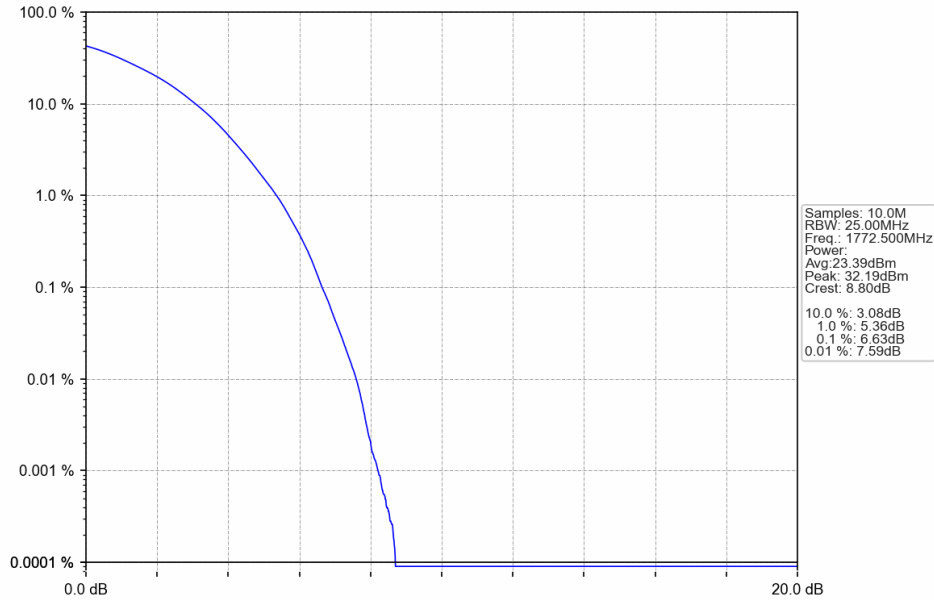
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3.6 B66\_20MHz

3.6.1 Test Result

Band: 66 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.09	<=13	Pass
	1745	100	0	5.39	<=13	Pass
	1770	100	0	5.59	<=13	Pass
16QAM	1720	100	0	5.94	<=13	Pass
	1745	100	0	6.08	<=13	Pass
	1770	100	0	6.16	<=13	Pass
64QAM	1720	100	0	6.54	<=13	Pass
	1745	100	0	6.62	<=13	Pass
	1770	100	0	6.62	<=13	Pass



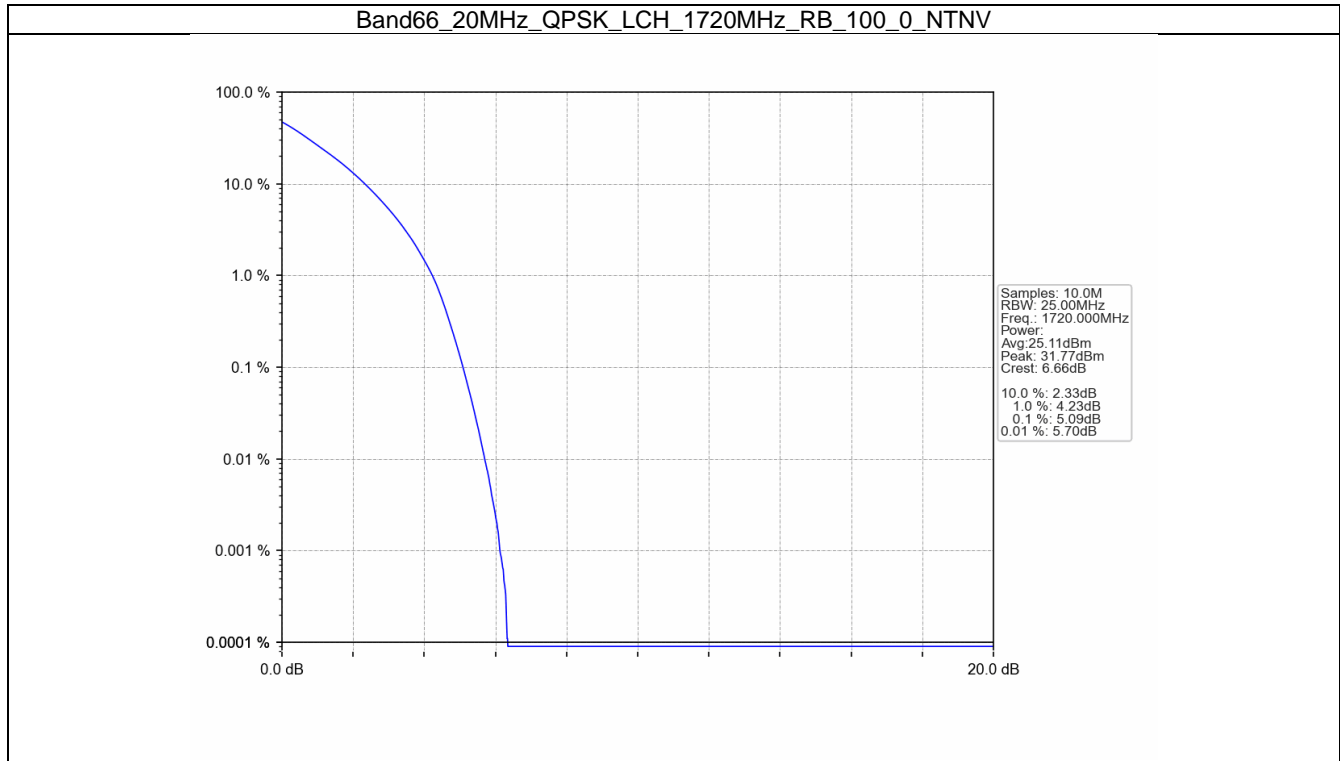
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3.6.2 Test Graph



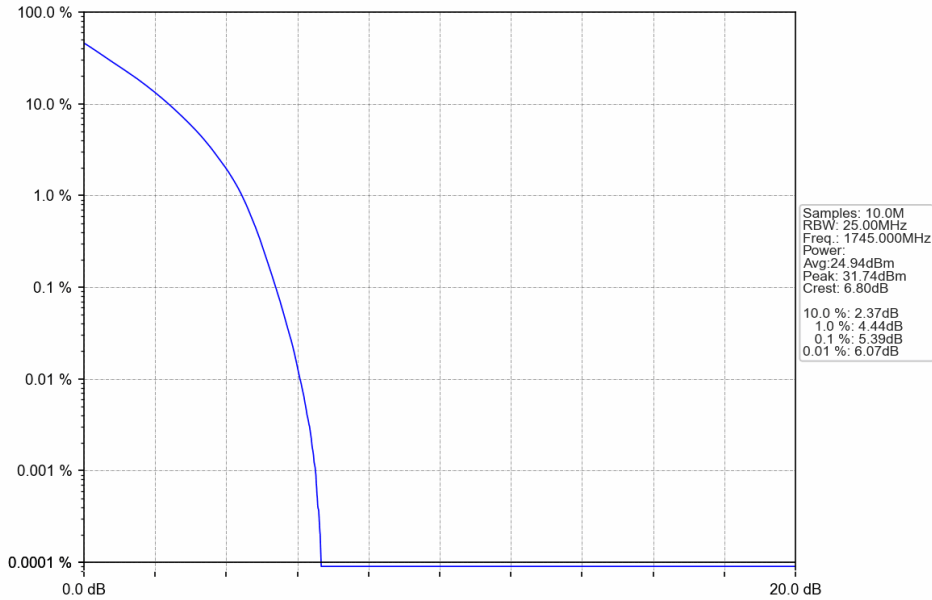
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Band66\_20MHz\_QPSK\_MCH\_1745MHz\_RB\_100\_0\_NTNV



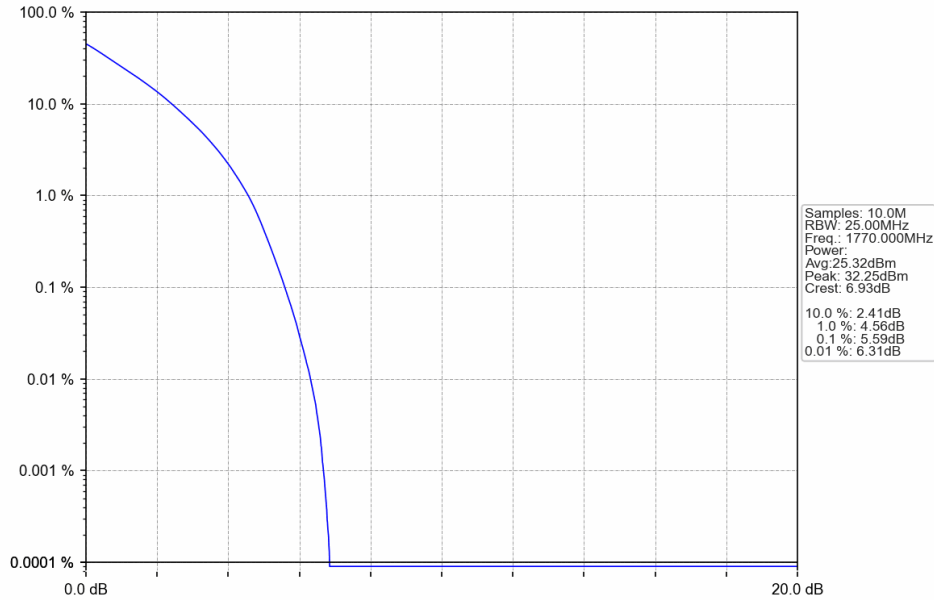
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Band66\_20MHz\_QPSK\_HCH\_1770MHz\_RB\_100\_0\_NTNV



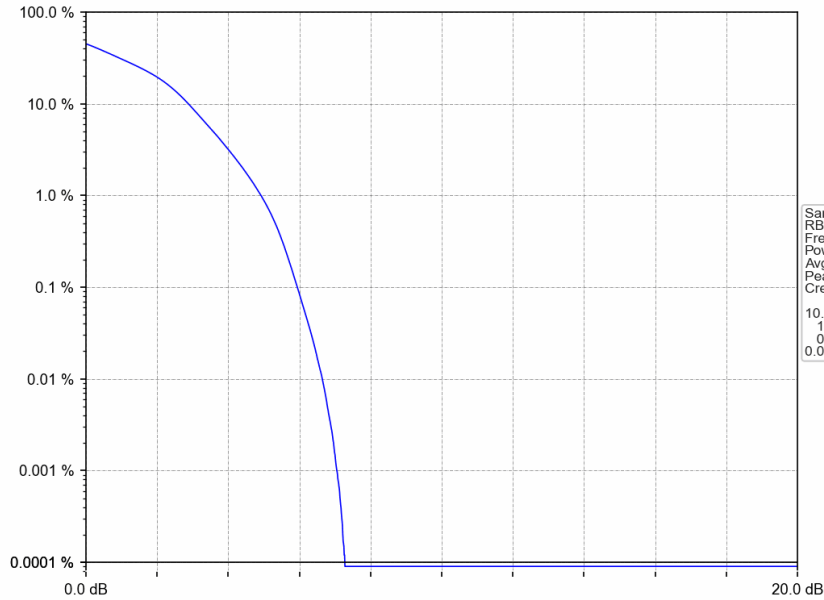
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 Freq.: 1720.000MHz  
 Power:  
 Avg: 24.09dBm  
 Peak: 31.53dBm  
 Crest: 7.44dB

10.0 %: 2.88dB  
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 0.01 %: 6.64dB



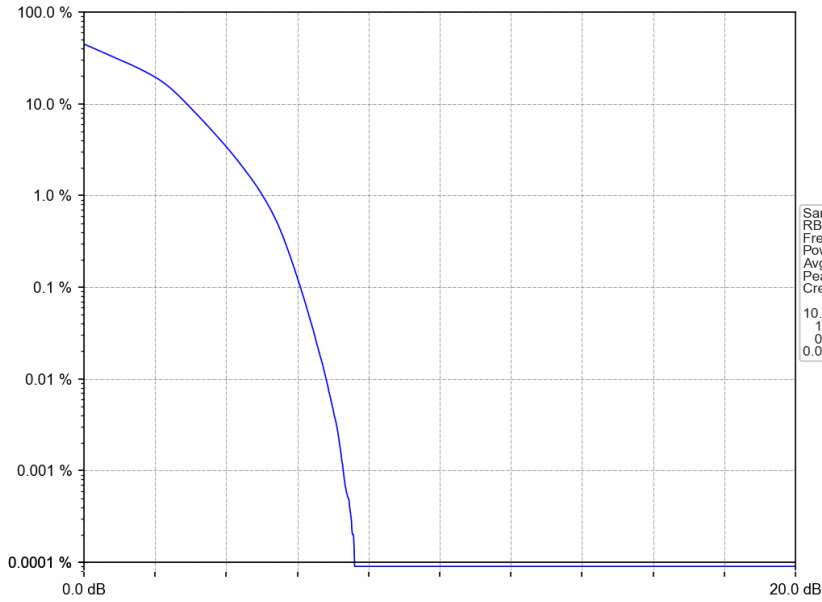
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Samples: 10.0M  
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 Freq.: 1745.000MHz  
 Power:  
 Avg: 23.94dBm  
 Peak: 31.72dBm  
 Crest: 7.78dB

10.0 %: 2.89dB  
 1.0 %: 5.02dB  
 0.1 %: 6.08dB  
 0.01 %: 6.81dB



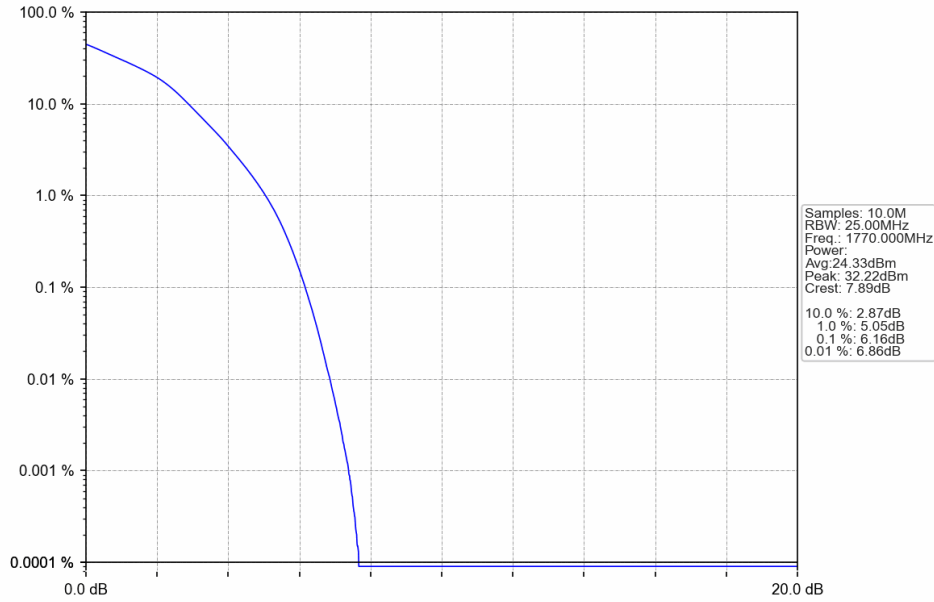
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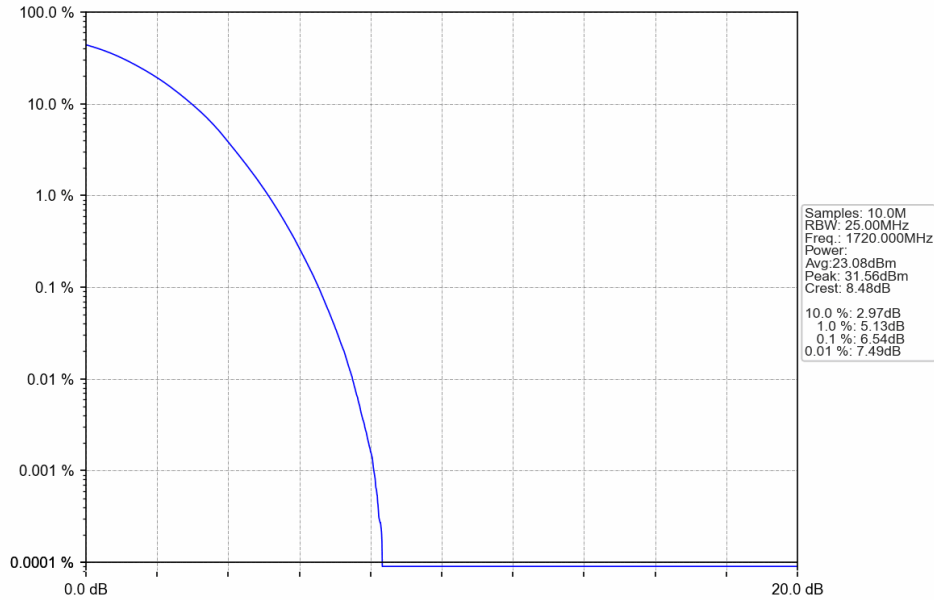
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Band66\_20MHz\_64QAM\_LCH\_1720MHz\_RB\_100\_0\_NTNV



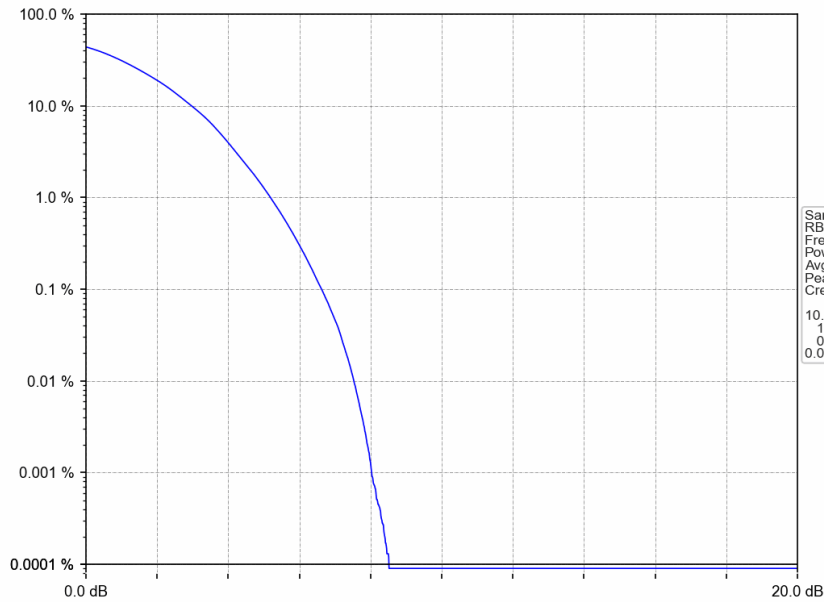
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Band66\_20MHz\_64QAM\_MCH\_1745MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 1745.000MHz  
 Power:  
 Avg: 22.96dBm  
 Peak: 31.60dBm  
 Crest: 8.64dB

10.0 %: 2.96dB  
 1.0 %: 5.19dB  
 0.1 %: 6.62dB  
 0.01 %: 7.53dB



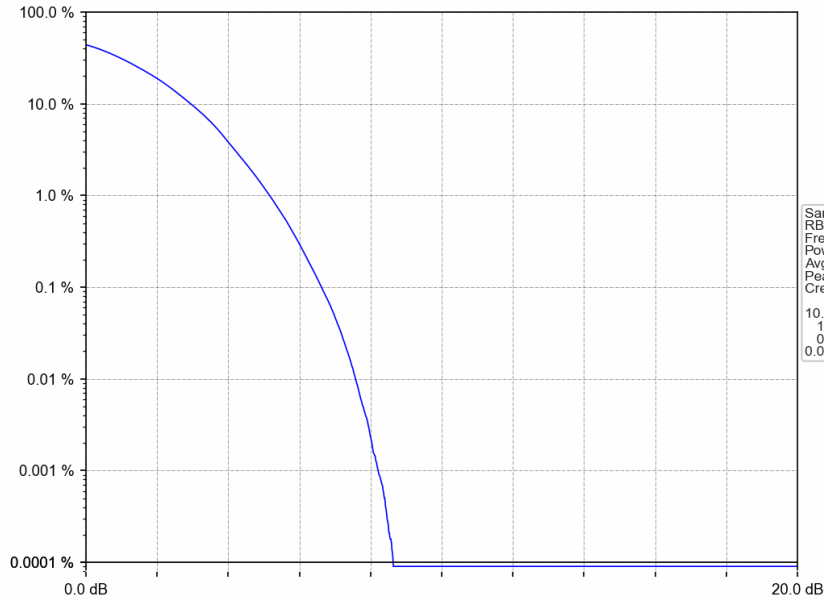
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Band66\_20MHz\_64QAM\_HCH\_1770MHz\_RB\_100\_0\_NTNV



Samples: 10.0M  
 RBW: 25.00MHz  
 Freq.: 1770.000MHz  
 Power:  
 Avg: 23.38dBm  
 Peak: 32.19dBm  
 Crest: 8.81dB

10.0 %: 2.94dB  
 1.0 %: 5.16dB  
 0.1 %: 6.62dB  
 0.01 %: 7.58dB



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## 4. Spurious Emission & Band Edges

### 4.1 B66\_1.4MHz

#### 4.1.1 Test Result

Band: 66 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1779.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1779.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
64QAM	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1779.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

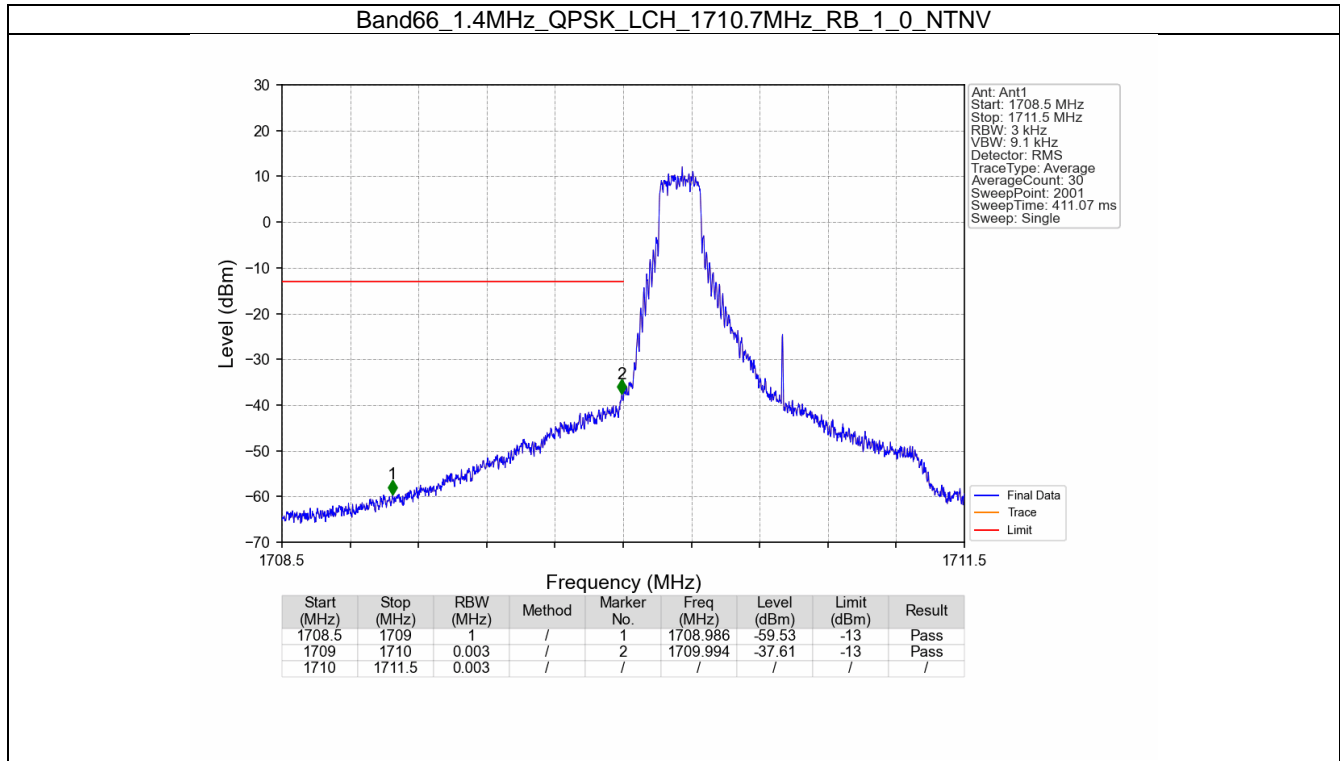


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4.1.2 Test Graph



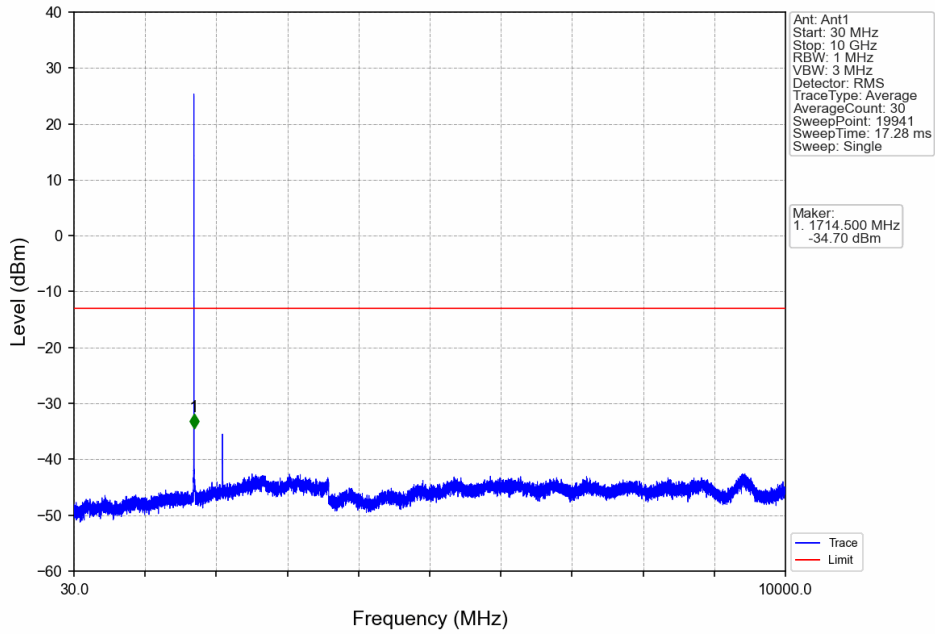
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Band66\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



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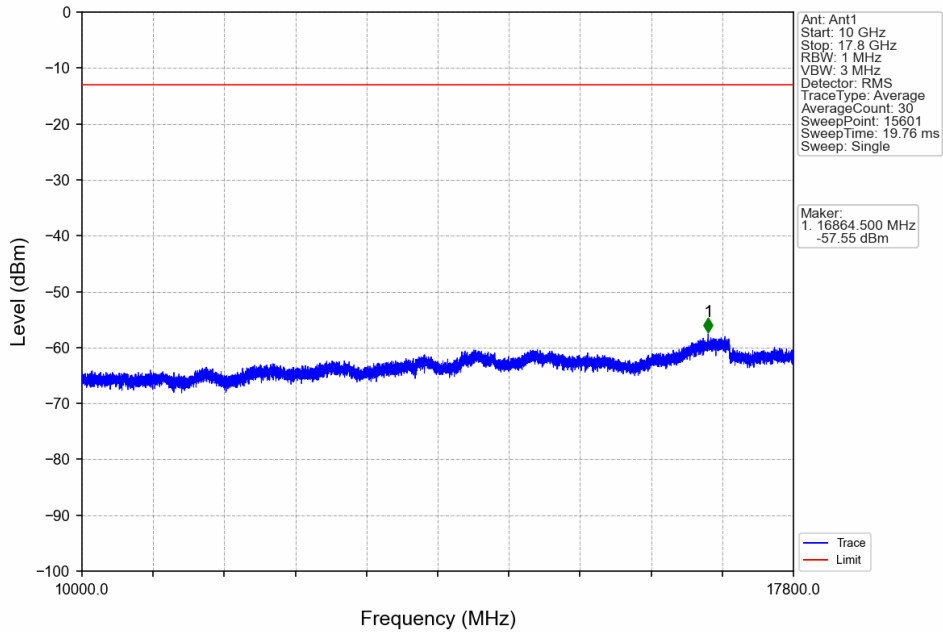
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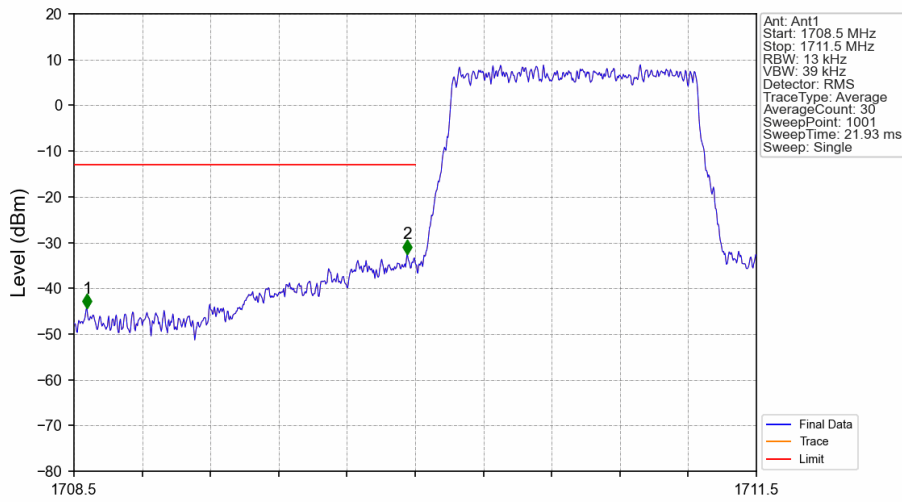


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.557	-44.43	-13	Pass
1709	1710	0.013	/	2	1709.964	-32.50	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



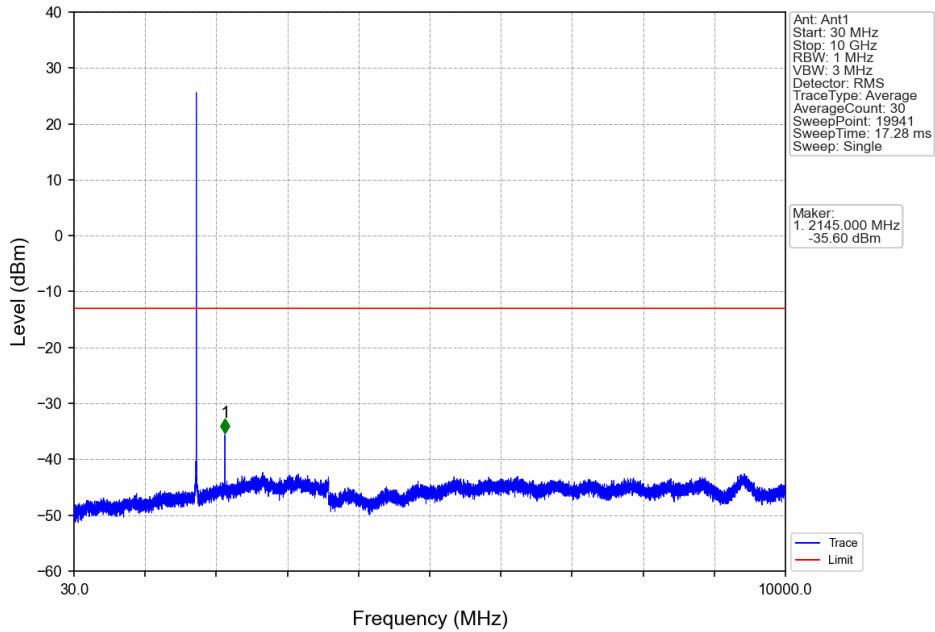
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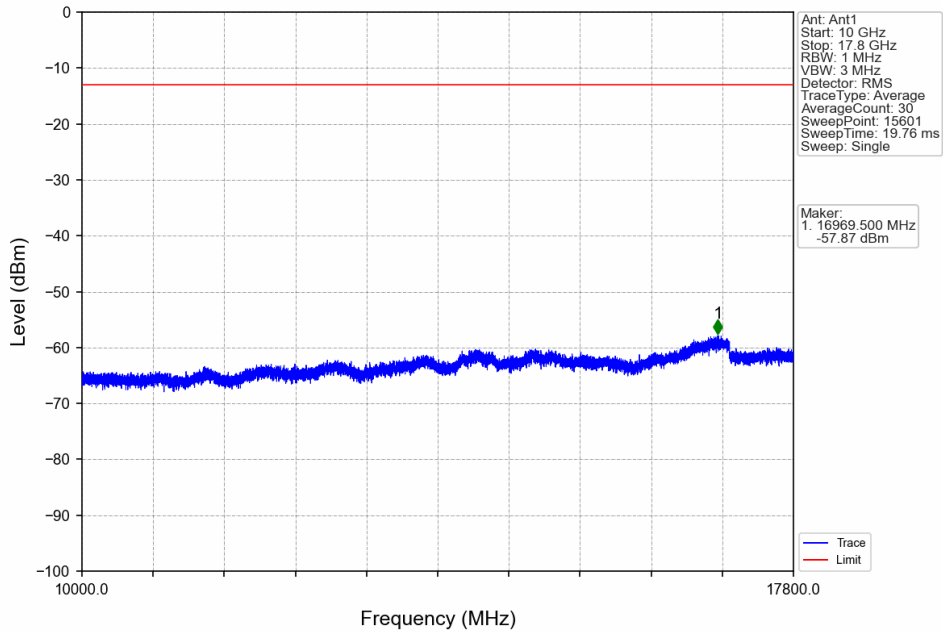
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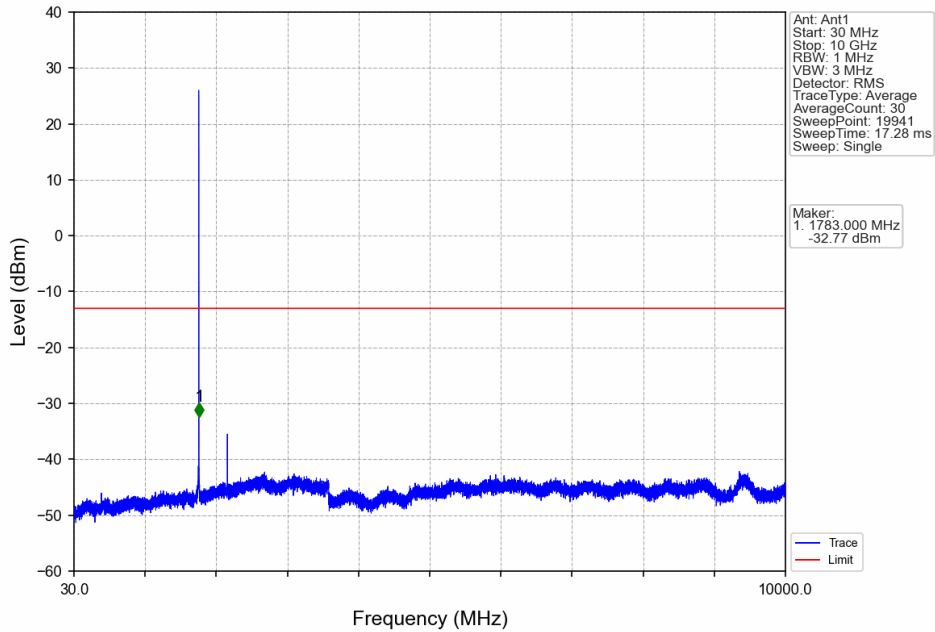
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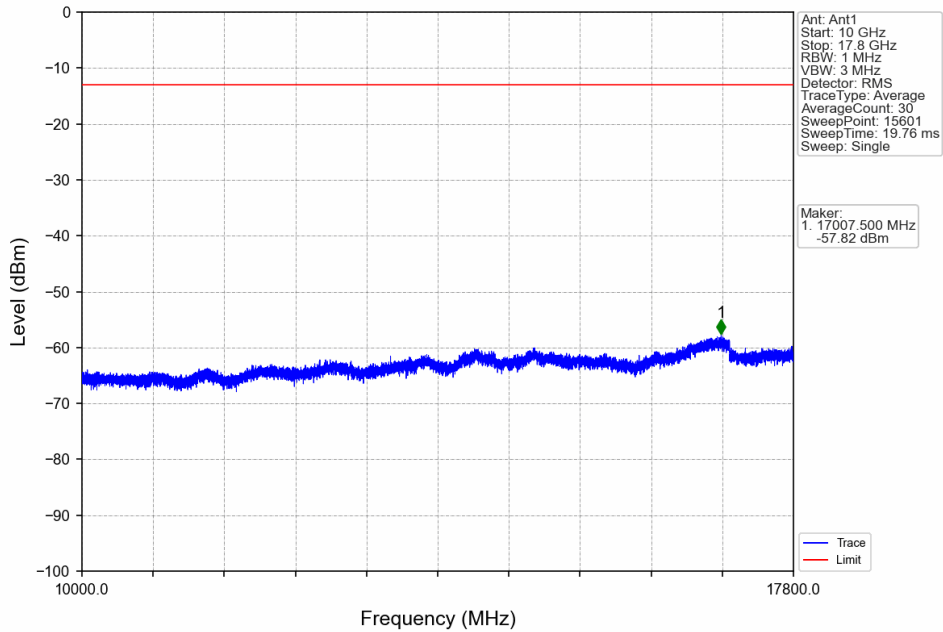
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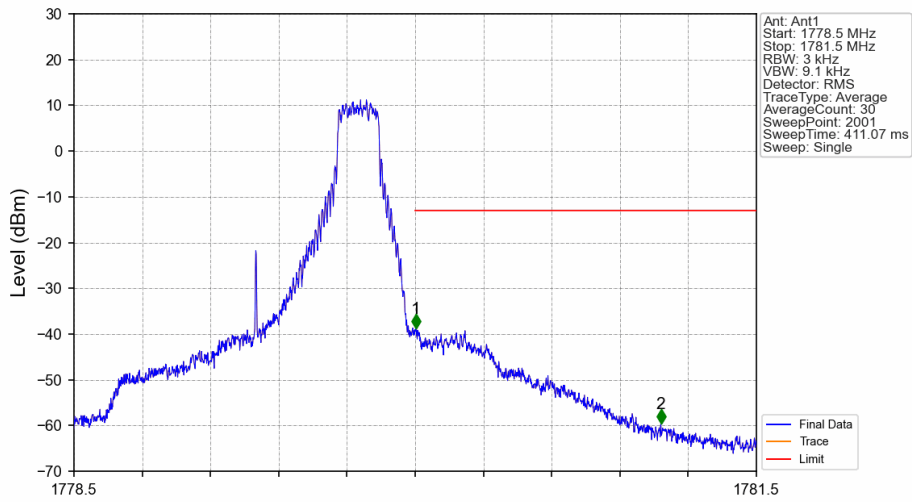
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Band66\_1.4MHz\_QPSK\_HCH\_1779.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1778.5	1780	0.003	/	/	/	/	/	/
1780	1781	0.003	/	1	1780.003	-38.73	-13	Pass
1781	1781.5	1	/	2	1781.080	-59.63	-13	Pass

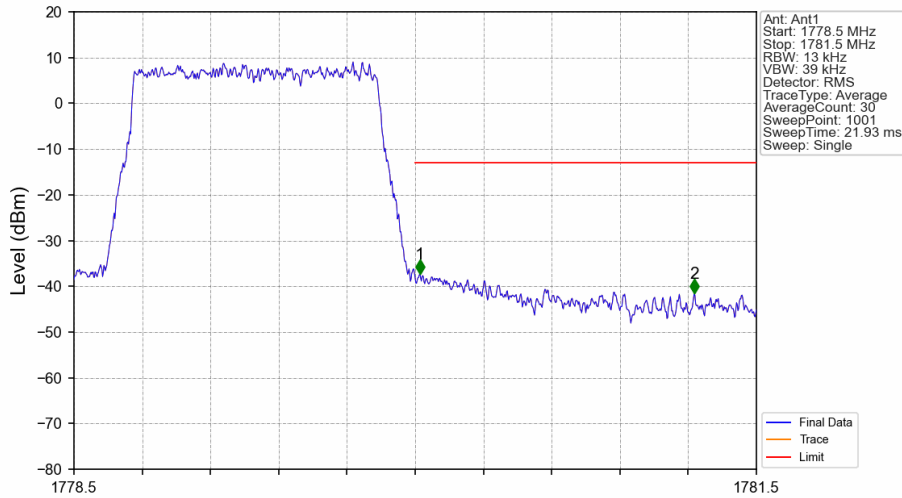


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Band66\_1.4MHz\_QPSK\_HCH\_1779.3MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1778.5	1780	0.013	/	/	/	/	/	/
1780	1781	0.013	/	1	1780.021	-37.30	-13	Pass
1781	1781.5	1	/	2	1781.227	-41.52	-13	Pass

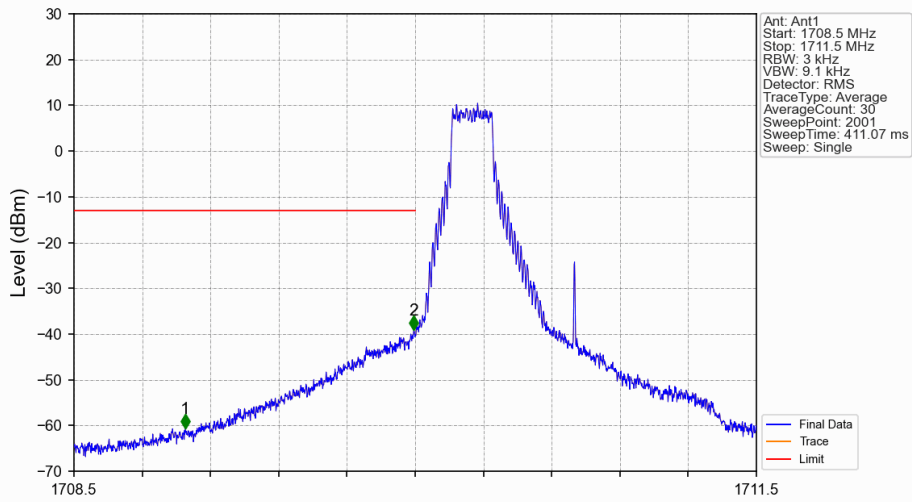


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Band66\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.989	-60.69	-13	Pass
1709	1710	0.003	/	2	1709.994	-39.21	-13	Pass
1710	1711.5	0.003	/	/	/	/	/	/



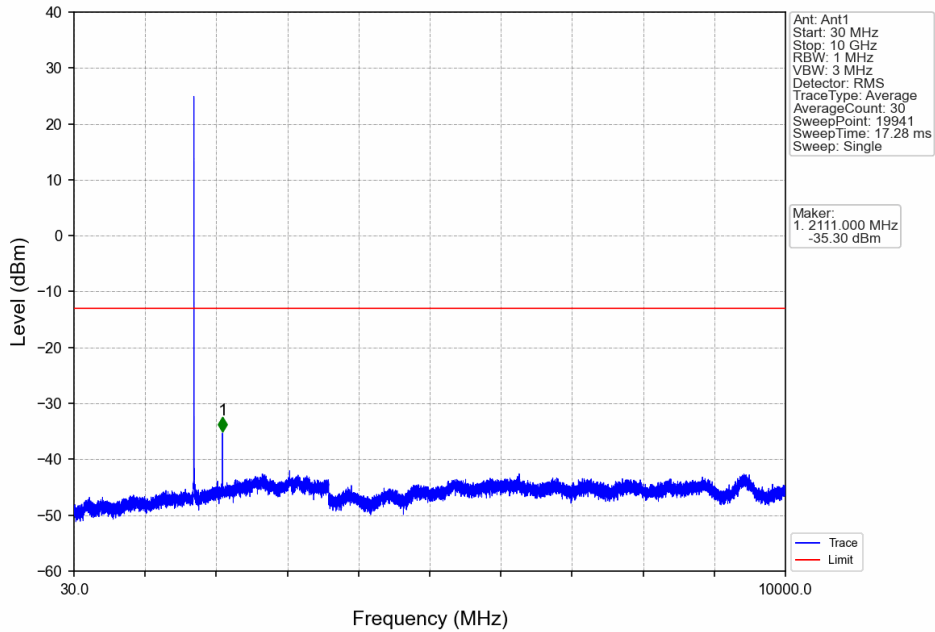
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Band66\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV



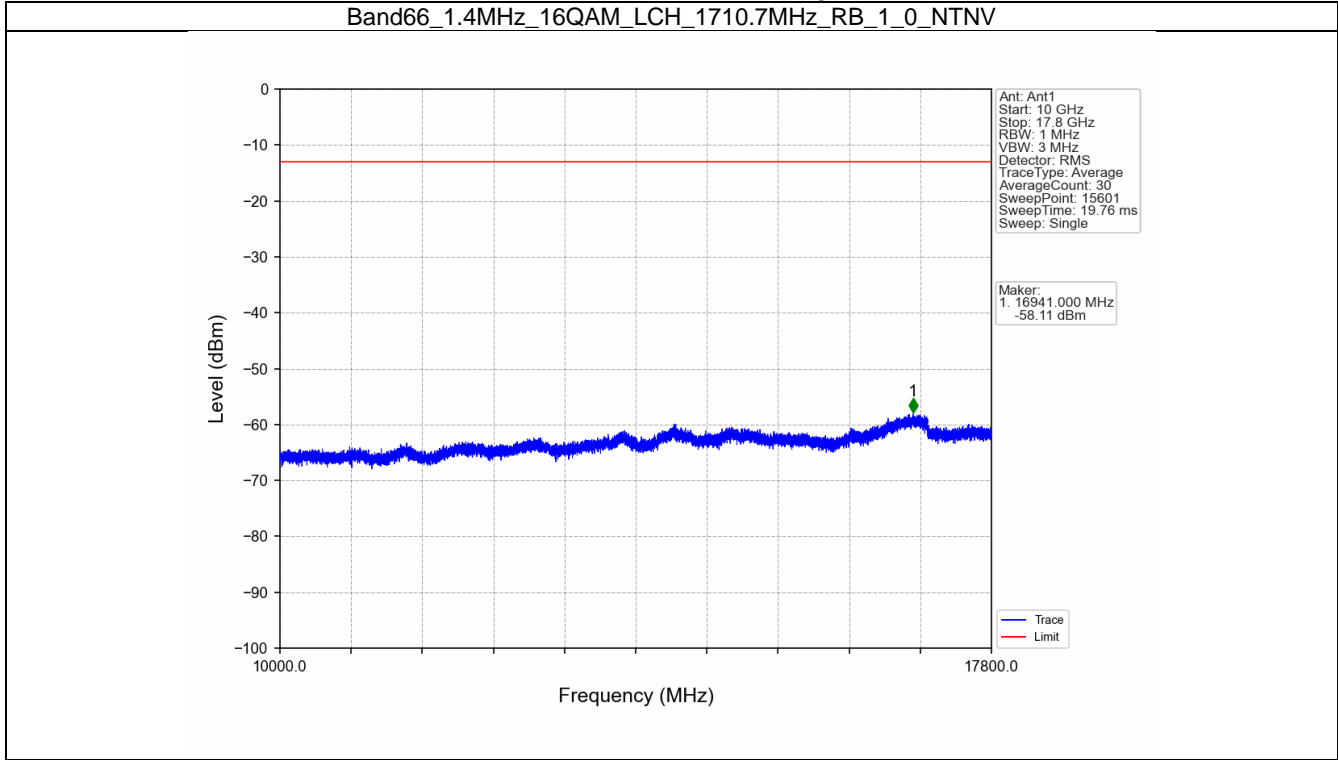
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Band66\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV

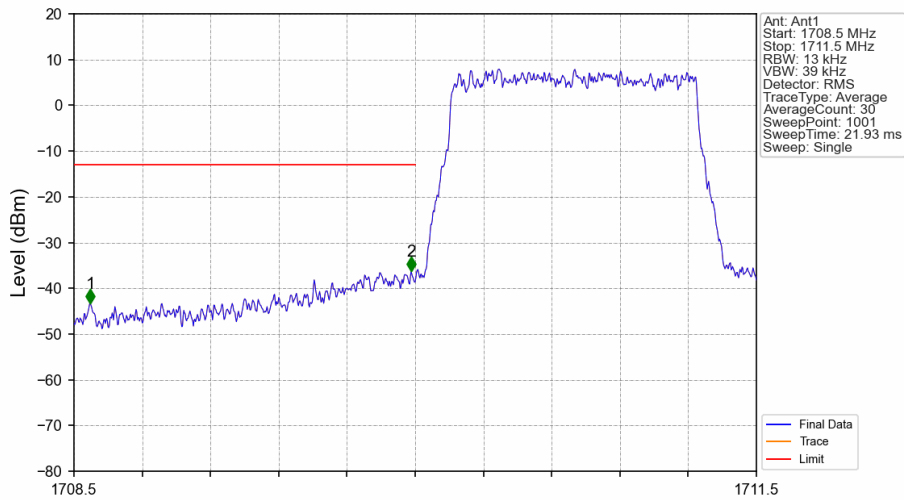


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Band66\_1.4MHz\_16QAM\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.572	-43.33	-13	Pass
1709	1710	0.013	/	2	1709.982	-36.28	-13	Pass
1710	1711.5	0.013	/	/	/	/	/	/



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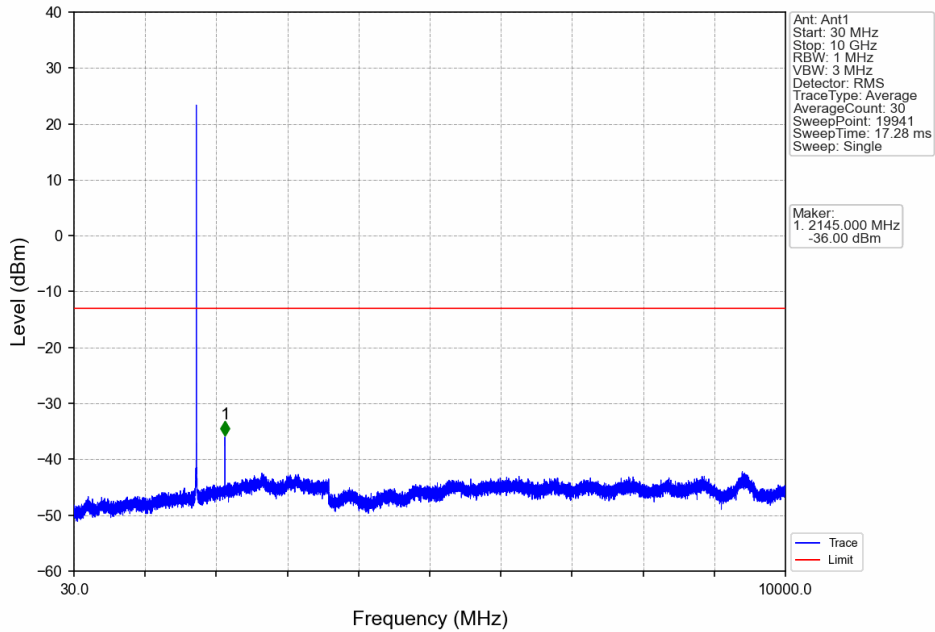
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Band66\_1.4MHz\_16QAM\_MCH\_1745MHz\_RB\_1\_0\_NTNV



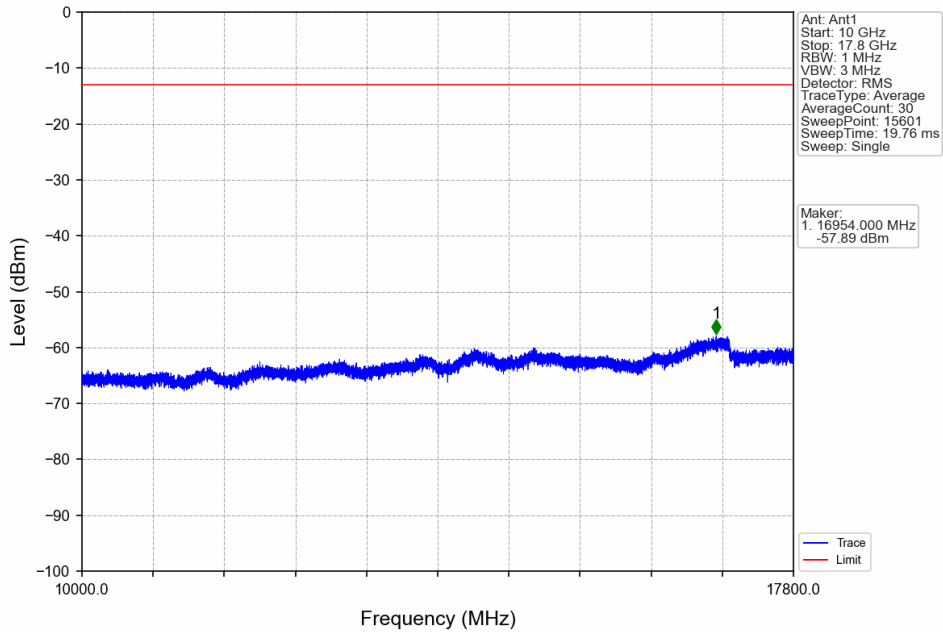
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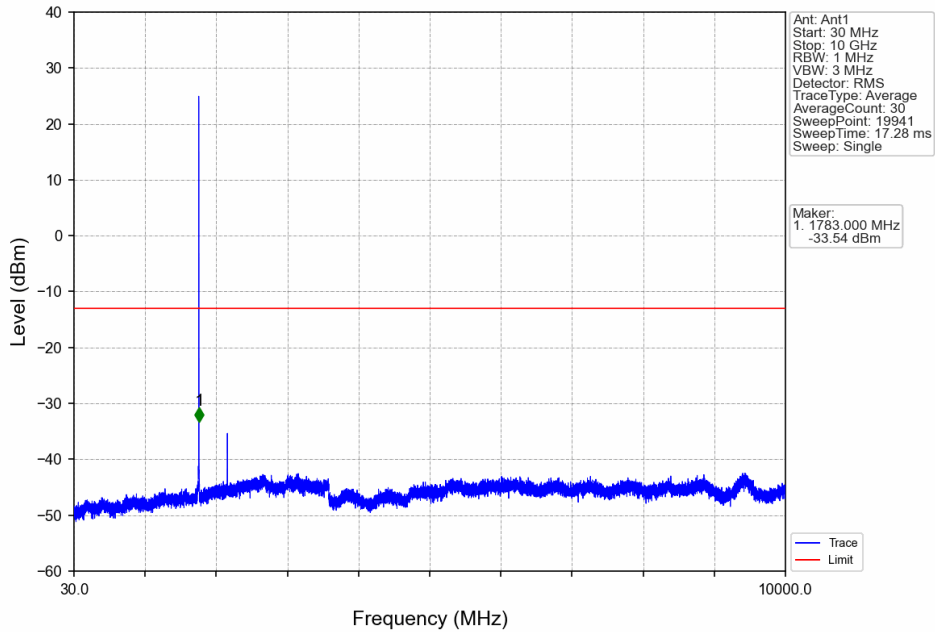
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Band66\_1.4MHz\_16QAM\_HCH\_1779.3MHz\_RB\_1\_0\_NTNV



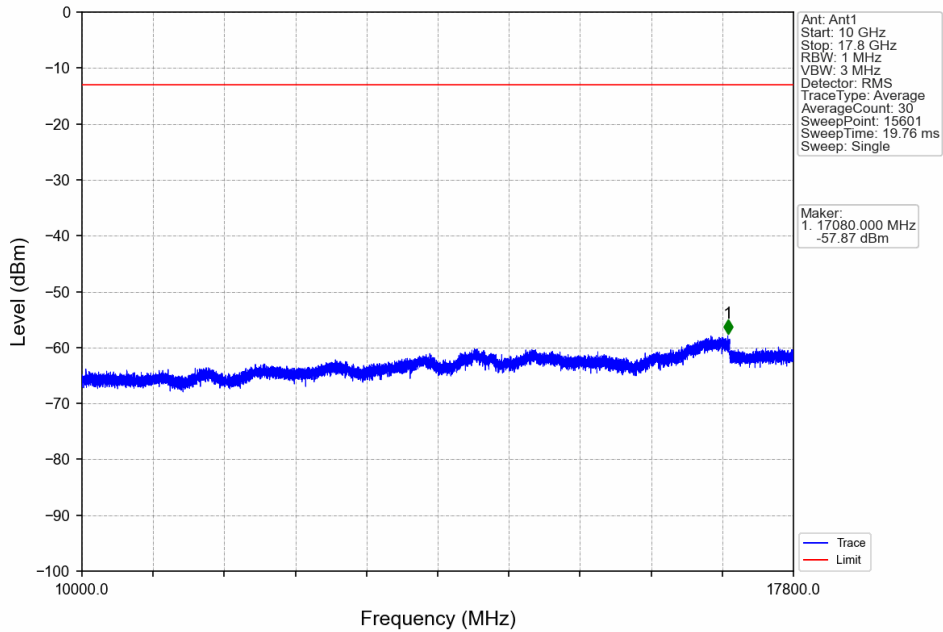
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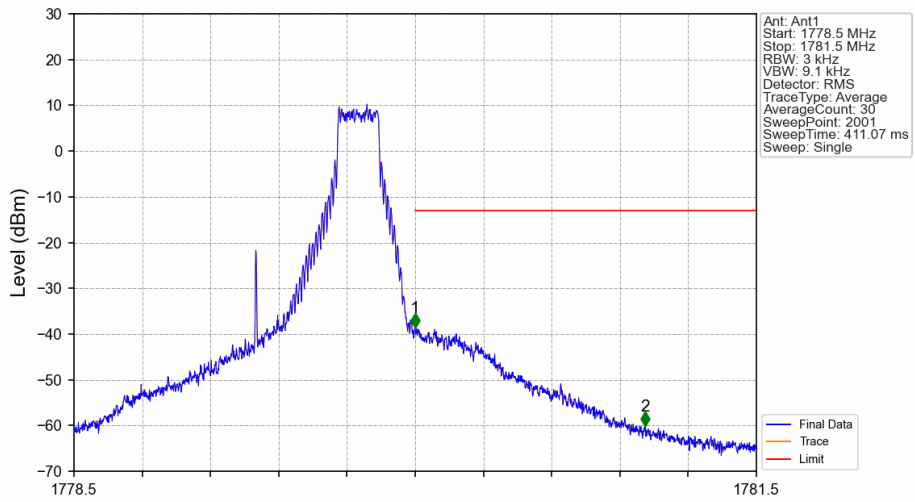
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Band66\_1.4MHz\_16QAM\_HCH\_1779.3MHz\_RB\_1\_5\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1778.5	1780	0.003	/	/	/	/	/	/
1780	1781	0.003	/	1	1780.000	-38.57	-13	Pass
1781	1781.5	1	/	2	1781.011	-60.07	-13	Pass



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