



Report No.: SUCR240400008901

Rev.: 01

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# Appendix B.10

## LTE Band 14



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.77	24.87	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.79	24.89	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.65	24.75	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.82	23.92	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.69	24.79	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.82	24.92	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.69	24.79	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.67	23.77	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.89	24.99	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.87	24.97	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.58	24.68	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.77	23.87	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.06	24.16	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.95	24.05	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.02	24.12	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.85	22.95	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.94	24.04	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.82	23.92	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.78	23.88	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.67	22.77	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.95	24.05	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.82	23.92	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.78	23.88	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.71	22.81	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.94	23.04	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.93	23.03	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.85	22.95	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	20.84	21.94	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.12	23.22	34.77	PASS



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Band14	5MHz	64QAM	23330	1RB#12	21.84	22.94	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	21.82	22.92	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.69	21.79	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.02	23.12	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.99	23.09	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.76	22.86	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.77	21.87	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.75	19.85	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.99	20.09	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	18.91	20.01	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	18.88	19.98	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	18.84	19.94	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.93	20.03	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.75	19.85	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.65	19.75	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.81	19.91	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	18.86	19.96	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.75	19.85	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.62	19.72	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.94	25.04	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.82	24.92	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.56	24.66	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.68	23.78	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.97	24.07	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.92	24.02	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.72	23.82	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.77	22.87	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.99	23.09	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.95	23.05	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.8	22.9	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.76	21.86	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	18.95	20.05	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.01	20.11	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.74	19.84	34.77	PASS



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Band14	10MHz	256QAM	23330	50RB#0	18.75	19.85	34.77	PASS
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## 2. Frequency Stability

### 2.2 B14\_10MHz

#### 2.2.1 Test Result

Band: 14 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	793	50	0	20	3.135	-1.004	-0.0013	/	Pass
					3.7	-0.256	-0.0003	/	Pass
					4.4	1.557	0.0020	/	Pass
				-30	3.7	-0.684	-0.0009	/	Pass
				-20	3.7	0.633	0.0008	/	Pass
				-10	3.7	0.286	0.0004	/	Pass
				0	3.7	1.682	0.0021	/	Pass
				10	3.7	0.701	0.0009	/	Pass
				30	3.7	0.951	0.0012	/	Pass
				40	3.7	0.652	0.0008	/	Pass
				50	3.7	0.599	0.0008	/	Pass



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## 3. Field Strength of Spurious Radiation

For report SUCR240400009001:

**Test Band = LTE\_B14\_5M**

**Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1124.5	60.17	-53.89	25.85	-63.13	-13.00	50.13	Horizontal
2	1576.5	61.16	-53.54	25.85	-61.79	-40.00	21.79	Horizontal
3	1767	56.64	-53.18	25.57	-66.23	-13.00	53.23	Horizontal
4	2365	59.87	-52.10	27.87	-59.62	-13.00	46.62	Horizontal
5	3177	53.03	-50.27	30.35	-62.15	-13.00	49.15	Horizontal
6	6993.5	50.14	-43.42	36.49	-52.05	-13.00	39.05	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1167.5	55.02	-53.66	25.80	-68.10	-13.00	55.10	Vertical
2	1576	54.68	-53.54	25.85	-68.27	-40.00	28.27	Vertical
3	2535.5	53.67	-51.67	28.21	-65.05	-13.00	52.05	Vertical
4	5119.5	51.44	-44.72	33.54	-55.00	-13.00	42.00	Vertical
5	7582.5	49.69	-42.19	36.74	-51.02	-13.00	38.02	Vertical
6	9511	49.37	-39.30	39.18	-46.01	-13.00	33.01	Vertical



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**Test Band = LTE\_B14\_5M**

**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	60.89	-53.54	25.84	-62.07	-40.00	22.07	Horizontal
2	2372.5	61.88	-52.12	27.86	-57.64	-13.00	44.64	Horizontal
3	3284	52.22	-49.86	30.67	-62.23	-13.00	49.23	Horizontal
4	4986.5	51.02	-44.58	33.13	-55.69	-13.00	42.69	Horizontal
5	6633.5	49.73	-44.14	35.87	-53.80	-13.00	40.80	Horizontal
6	8998	49.06	-40.29	38.79	-47.70	-13.00	34.70	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1582	54.53	-53.54	25.84	-68.43	-40.00	28.43	Vertical
2	1772	56.00	-53.16	25.59	-66.83	-13.00	53.83	Vertical
3	2603	53.50	-51.73	28.39	-65.10	-13.00	52.10	Vertical
4	4188.5	52.23	-47.79	31.41	-59.41	-13.00	46.41	Vertical
5	6809.5	50.02	-43.99	36.26	-52.97	-13.00	39.97	Vertical
6	9507	49.12	-39.29	39.19	-46.24	-13.00	33.24	Vertical



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**Test Band = LTE\_B14\_5M**

**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1123	62.14	-53.91	25.85	-61.18	-13.00	48.18	Horizontal
2	1587	60.97	-53.54	25.83	-62.00	-40.00	22.00	Horizontal
3	2380	59.69	-52.14	27.84	-59.87	-13.00	46.87	Horizontal
4	3553	52.25	-49.49	30.11	-62.39	-13.00	49.39	Horizontal
5	5460	50.64	-45.04	33.34	-56.32	-13.00	43.32	Horizontal
6	8509	49.35	-41.11	38.12	-48.90	-13.00	35.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1587	54.71	-53.54	25.83	-68.26	-40.00	28.26	Vertical
2	2086.5	53.71	-52.58	27.39	-66.74	-13.00	53.74	Vertical
3	2886	53.13	-50.71	29.04	-63.80	-13.00	50.80	Vertical
4	4607	52.31	-46.19	32.09	-57.05	-13.00	44.05	Vertical
5	6227.5	50.49	-44.24	34.31	-54.70	-13.00	41.70	Vertical
6	9517.5	48.93	-39.31	39.17	-46.47	-13.00	33.47	Vertical



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**Test Band = LTE\_B14\_10M**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	61.80	-53.54	25.85	-61.15	-40.00	21.15	Horizontal
2	2365.5	60.97	-52.10	27.87	-58.52	-13.00	45.52	Horizontal
3	3620	52.74	-49.45	30.28	-61.69	-13.00	48.69	Horizontal
4	5699.5	50.91	-44.14	33.50	-54.99	-13.00	41.99	Horizontal
5	7999	49.84	-41.91	37.40	-49.93	-13.00	36.93	Horizontal
6	9515.5	48.86	-39.30	39.17	-46.53	-13.00	33.53	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	54.50	-53.54	25.85	-68.45	-40.00	28.45	Vertical
2	1769.5	62.87	-53.17	25.58	-59.98	-13.00	46.98	Vertical
3	2535	53.55	-51.67	28.21	-65.17	-13.00	52.17	Vertical
4	3966.5	52.02	-48.20	30.97	-60.47	-13.00	47.47	Vertical
5	5677	51.32	-44.43	33.41	-54.96	-13.00	41.96	Vertical
6	7937	49.78	-42.27	37.47	-50.28	-13.00	37.28	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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For report SUCR240400008901:

Test Band = LTE\_14\_10MHz\_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1162	47.79	-47.37	24.52	-70.32	-13.00	57.32	Horizontal
2	1585	47.45	-46.92	24.83	-69.90	-40.00	29.90	Horizontal
3	2365.5	47.91	-45.98	27.54	-65.79	-13.00	52.79	Horizontal
4	4785	45.64	-42.85	30.71	-61.76	-13.00	48.76	Horizontal
5	7186.5	43.61	-38.45	36.55	-53.55	-13.00	40.55	Horizontal
6	9778	41.42	-35.05	38.41	-50.48	-13.00	37.48	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1132	48.86	-47.30	24.43	-69.27	-13.00	56.27	Vertical
2	1599	47.36	-46.96	25.08	-69.78	-40.00	29.78	Vertical
3	2365.5	48.80	-45.98	27.54	-64.90	-13.00	51.90	Vertical
4	4396.5	45.86	-43.23	30.09	-62.54	-13.00	49.54	Vertical
5	7170.5	43.43	-38.45	36.48	-53.80	-13.00	40.80	Vertical
6	9818.5	41.45	-34.85	38.39	-50.27	-13.00	37.27	Vertical



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**Test Band = LTE\_14\_5MHz\_TM1**

**Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1087	48.53	-47.15	24.25	-69.63	-13.00	56.63	Horizontal
2	1596.5	47.58	-46.95	25.04	-69.59	-40.00	29.59	Horizontal
3	2365	49.15	-45.98	27.54	-64.55	-13.00	51.55	Horizontal
4	4231.5	46.19	-43.45	29.73	-62.79	-13.00	49.79	Horizontal
5	6600	43.81	-39.48	34.80	-56.13	-13.00	43.13	Horizontal
6	9552.5	41.97	-35.28	37.80	-50.77	-13.00	37.77	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1149.5	48.63	-47.36	24.50	-69.49	-13.00	56.49	Vertical
2	1600.5	46.94	-46.96	25.10	-70.18	-40.00	30.18	Vertical
3	2365	48.36	-45.98	27.54	-65.34	-13.00	52.34	Vertical
4	4802	45.73	-42.82	30.79	-61.56	-13.00	48.56	Vertical
5	7428.5	43.44	-37.92	36.76	-52.98	-13.00	39.98	Vertical
6	9760.5	41.64	-35.27	38.34	-50.55	-13.00	37.55	Vertical



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**Test Band = LTE\_14\_5MHz\_TM1**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1113.5	48.51	-47.23	24.35	-69.63	-13.00	56.63	Horizontal
2	1582	47.11	-46.91	24.78	-70.28	-40.00	30.28	Horizontal
3	2372.5	48.19	-45.96	27.51	-65.52	-13.00	52.52	Horizontal
4	4290	45.78	-42.75	29.56	-62.67	-13.00	49.67	Horizontal
5	6832.5	44.19	-39.26	35.53	-54.80	-13.00	41.80	Horizontal
6	9495	41.73	-34.99	37.77	-50.75	-13.00	37.75	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150	49.01	-47.36	24.50	-69.11	-13.00	56.11	Vertical
2	1581.5	48.78	-46.91	24.77	-68.62	-40.00	28.62	Vertical
3	2372.5	51.43	-45.96	27.51	-62.28	-13.00	49.28	Vertical
4	4403.5	45.49	-43.23	30.10	-62.90	-13.00	49.90	Vertical
5	6825	44.07	-39.22	35.50	-54.91	-13.00	41.91	Vertical
6	9490	41.85	-35.00	37.74	-50.67	-13.00	37.67	Vertical



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**Test Band = LTE\_14\_5MHz\_TM1**  
**Test Channel = HCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1100.5	49.65	-47.18	24.30	-68.49	-13.00	55.49	Horizontal
2	1586.5	47.39	-46.92	24.86	-69.93	-40.00	29.93	Horizontal
3	2380	48.48	-45.93	27.48	-65.23	-13.00	52.23	Horizontal
4	4038	46.25	-43.79	29.65	-63.15	-13.00	50.15	Horizontal
5	6782	43.95	-39.16	35.33	-55.14	-13.00	42.14	Horizontal
6	9510.5	42.01	-35.04	37.80	-50.49	-13.00	37.49	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1151.5	50.19	-47.36	24.50	-67.93	-13.00	54.93	Vertical
2	1586.5	48.74	-46.92	24.86	-68.58	-40.00	28.58	Vertical
3	2380	50.16	-45.93	27.48	-63.55	-13.00	50.55	Vertical
4	4760	46.47	-42.90	30.56	-61.13	-13.00	48.13	Vertical
5	7228	43.17	-38.32	36.43	-53.98	-13.00	40.98	Vertical
6	9487.5	41.59	-35.01	37.73	-50.95	-13.00	37.95	Vertical

## Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 4. 99% & 26dB Bandwidth

### 4.1 Band14\_OBW

#### 4.1.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	4.572	/	Pass
		793	25	0	4.574	/	Pass
		795.5	25	0	4.596	/	Pass
	16QAM	790.5	25	0	4.574	/	Pass
		793	25	0	4.581	/	Pass
		795.5	25	0	4.567	/	Pass
	64QAM	790.5	25	0	4.575	/	Pass
		793	25	0	4.577	/	Pass
		795.5	25	0	4.572	/	Pass
	256QAM	790.5	25	0	4.578	/	Pass
		793	25	0	4.562	/	Pass
		795.5	25	0	4.580	/	Pass
10	QPSK	793	50	0	9.139	/	Pass
	16QAM	793	50	0	9.103	/	Pass
	64QAM	793	50	0	9.068	/	Pass
	256QAM	793	50	0	9.095	/	Pass



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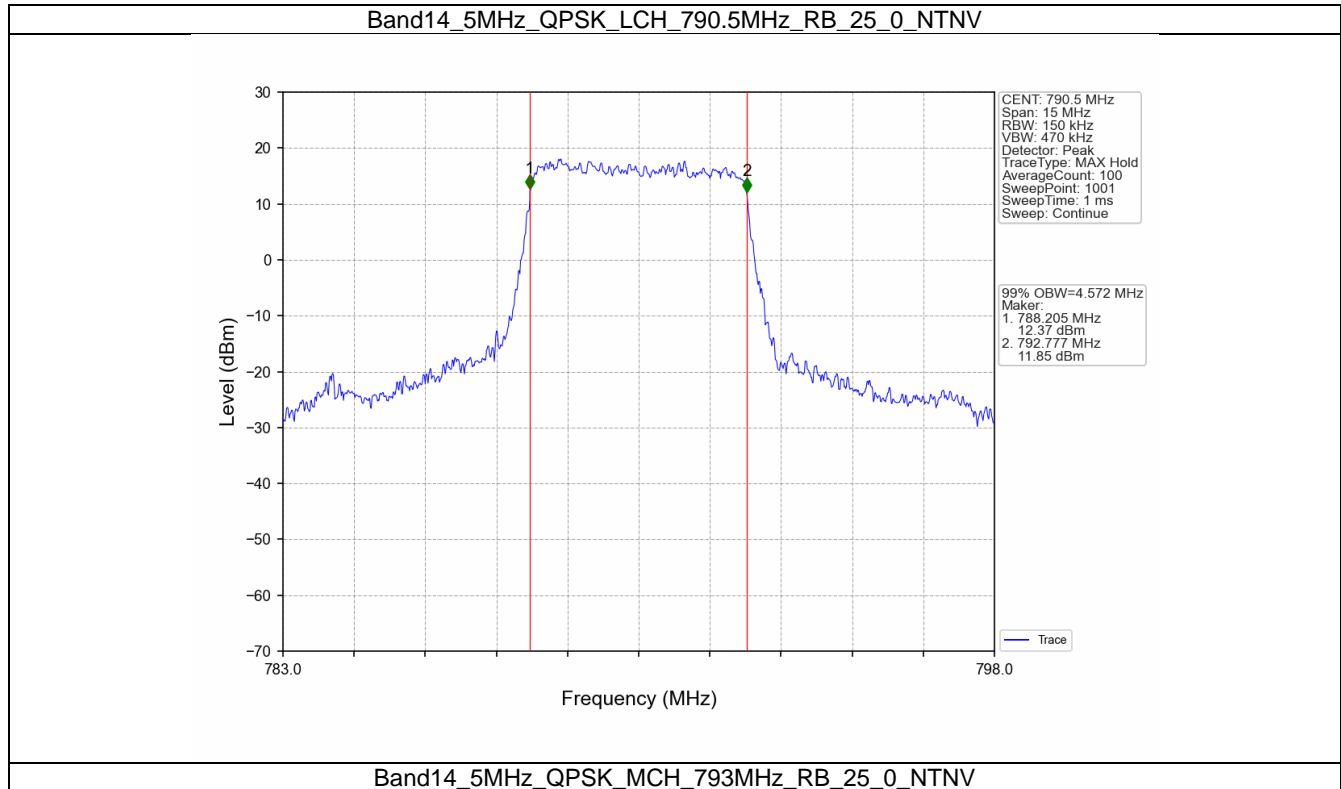


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### 4.1.2 Test Graph



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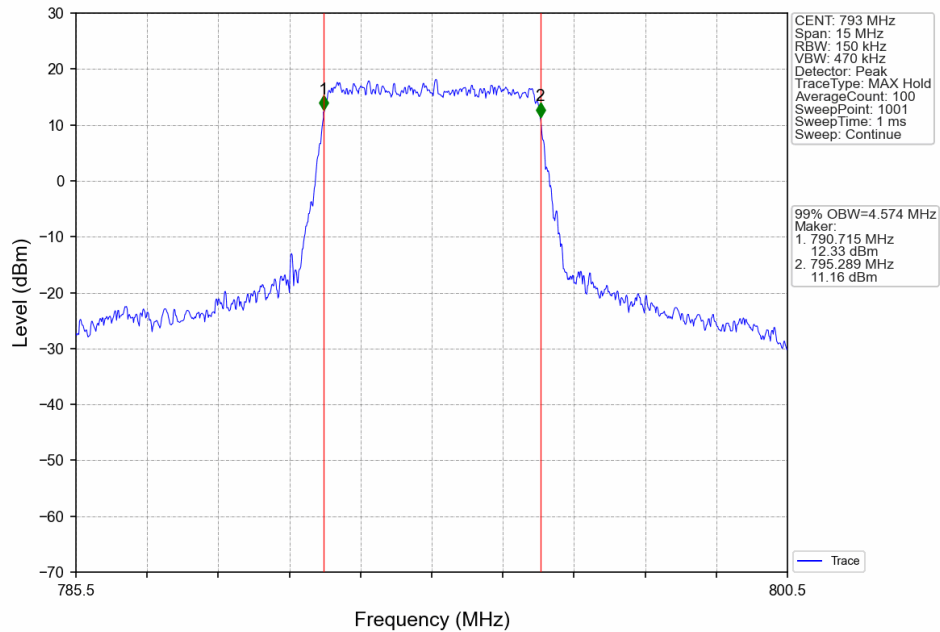
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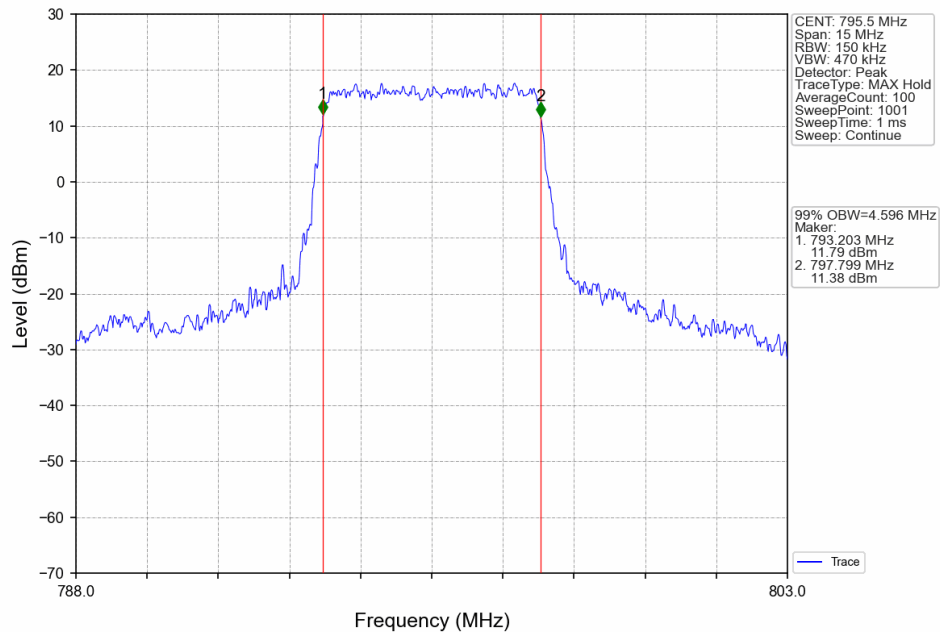
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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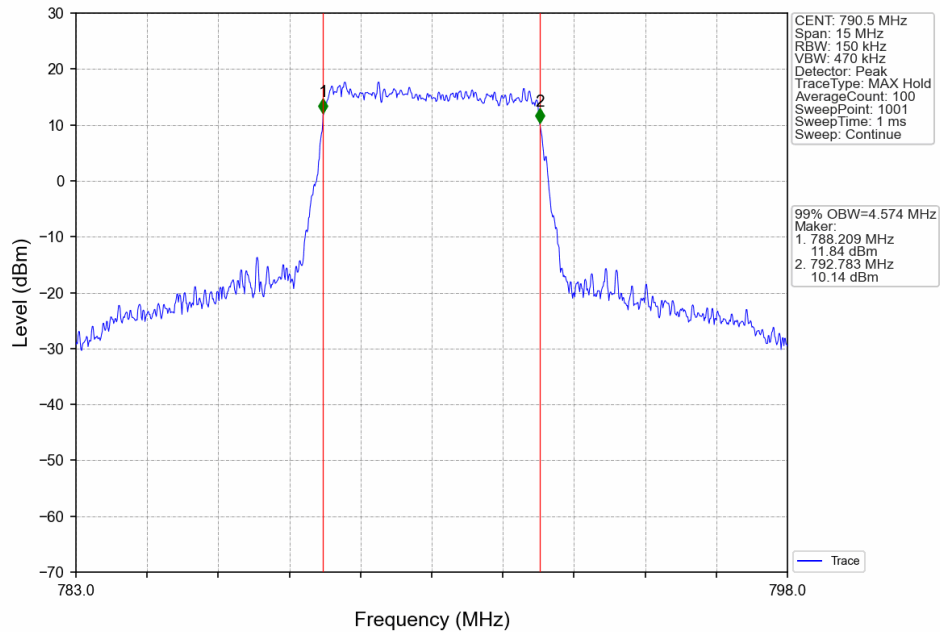
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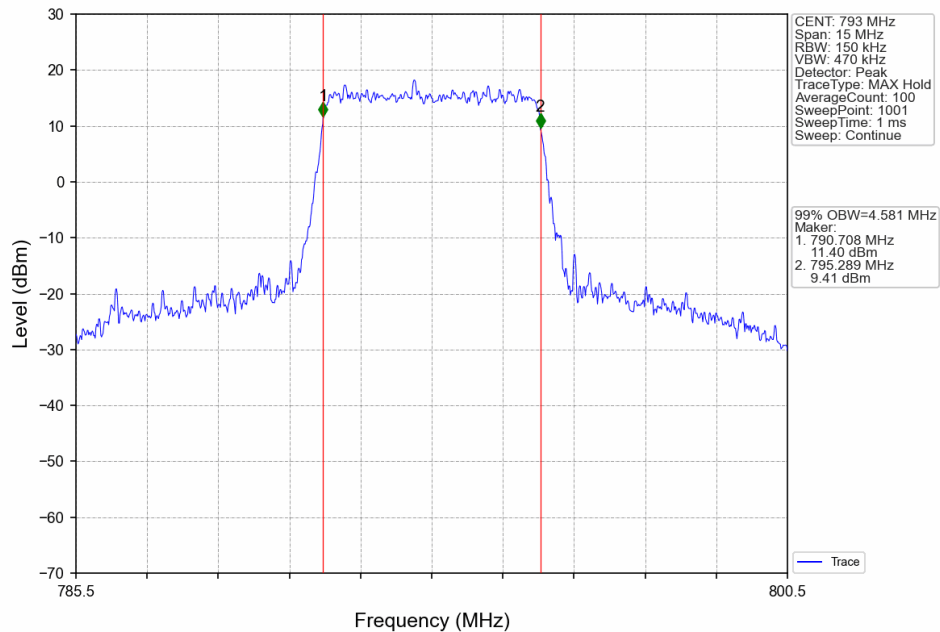
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Band14\_5MHz\_16QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



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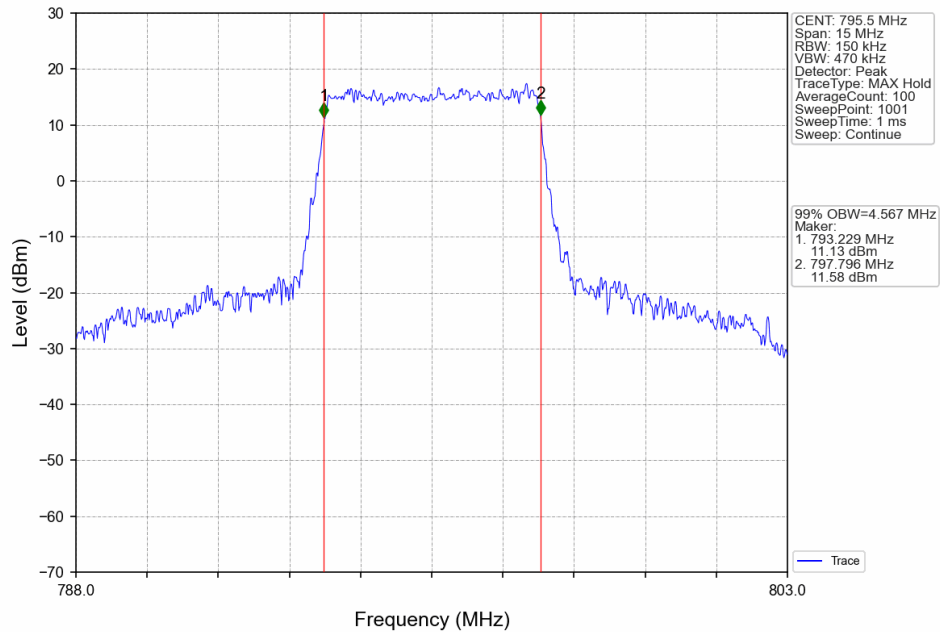
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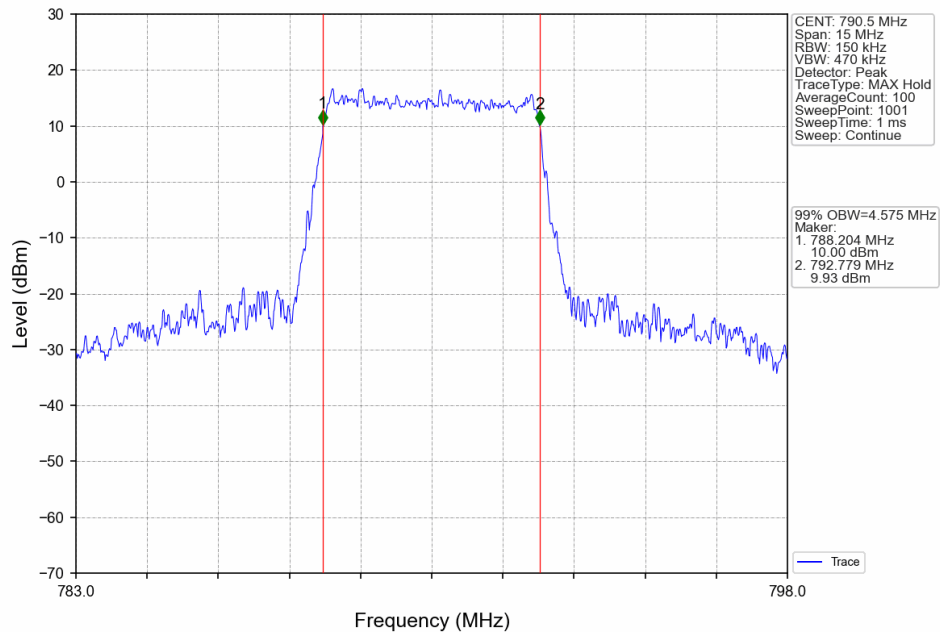


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Band14\_5MHz\_64QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



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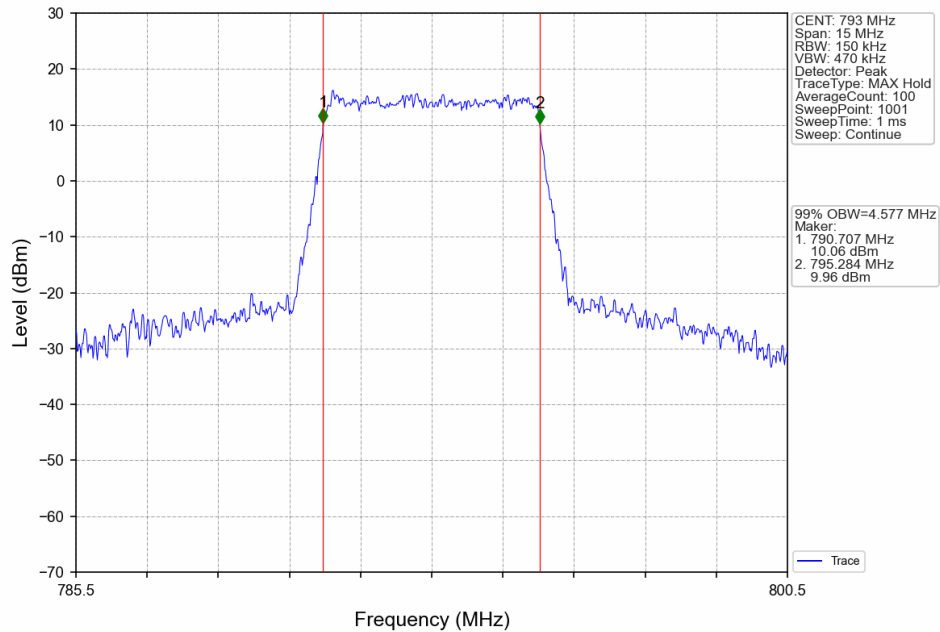
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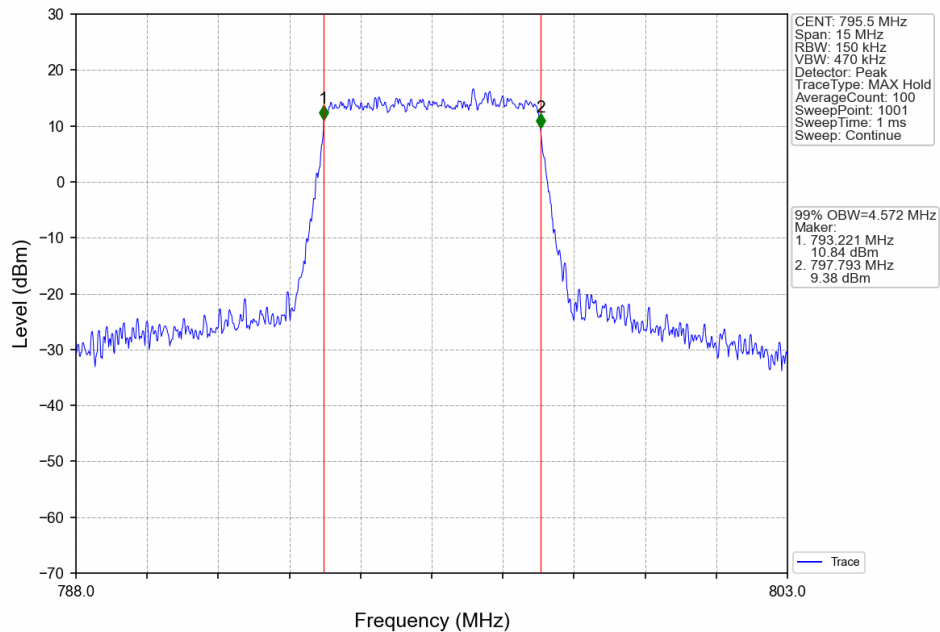
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Band14\_5MHz\_256QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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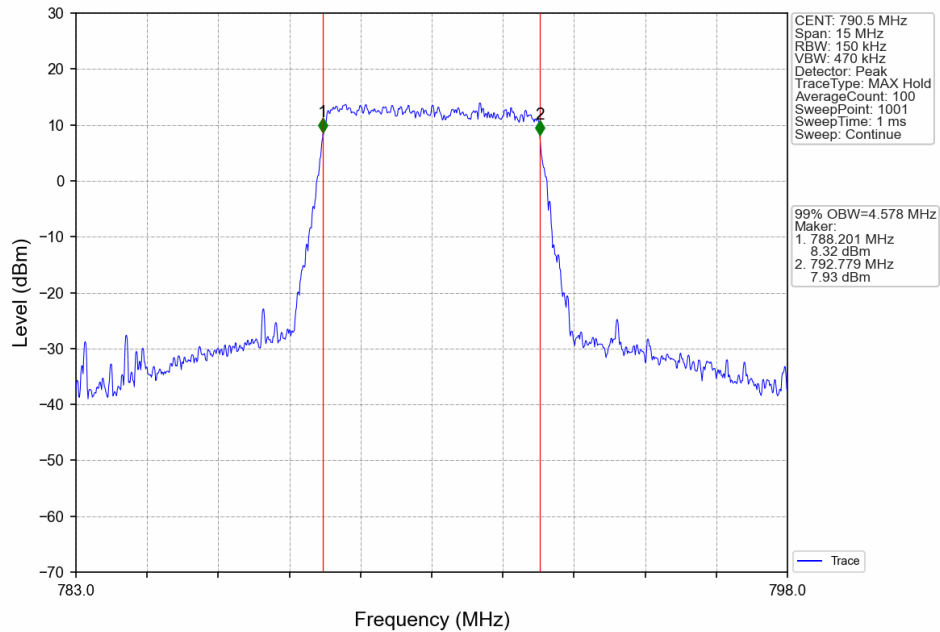
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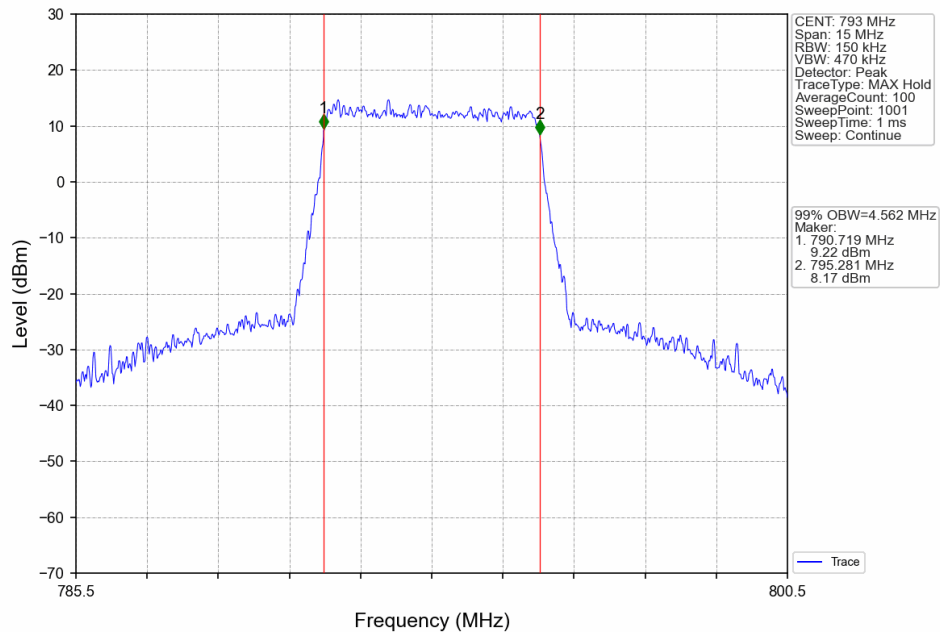
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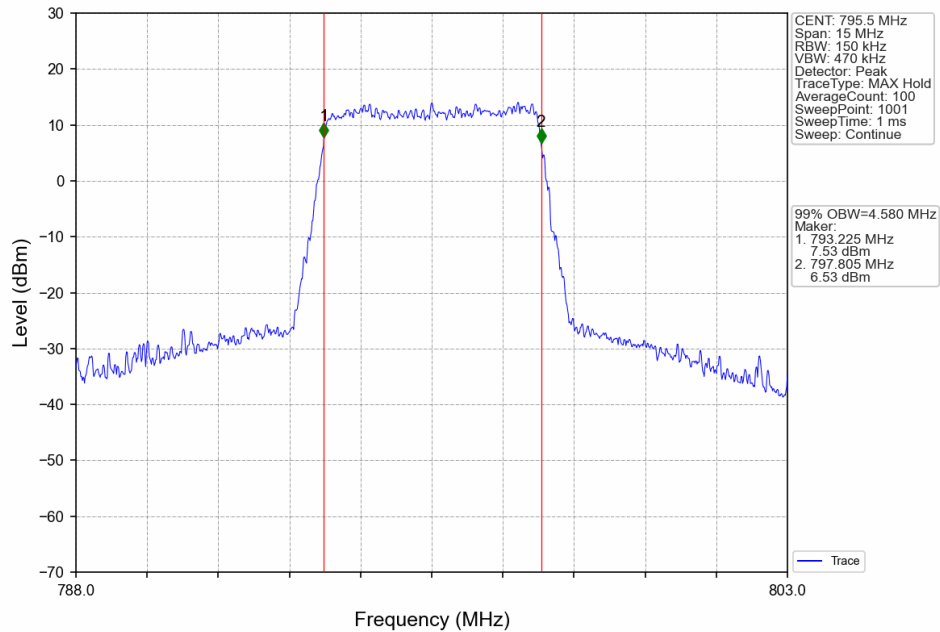
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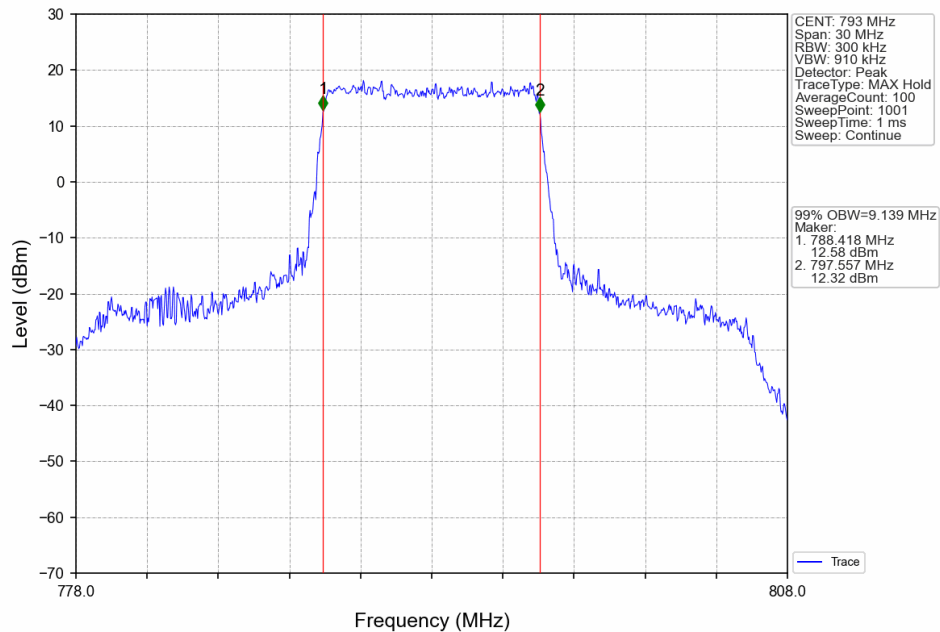


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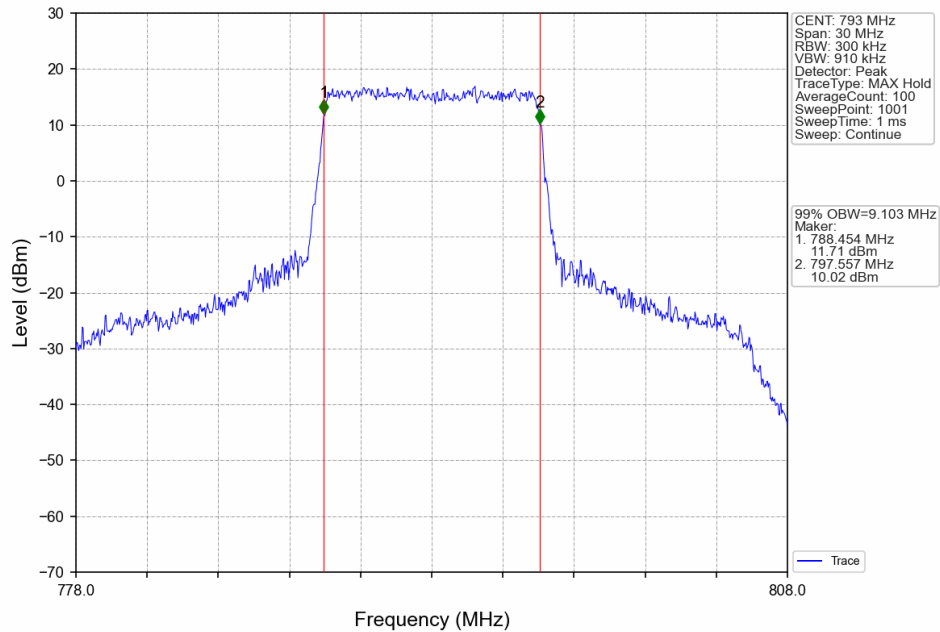
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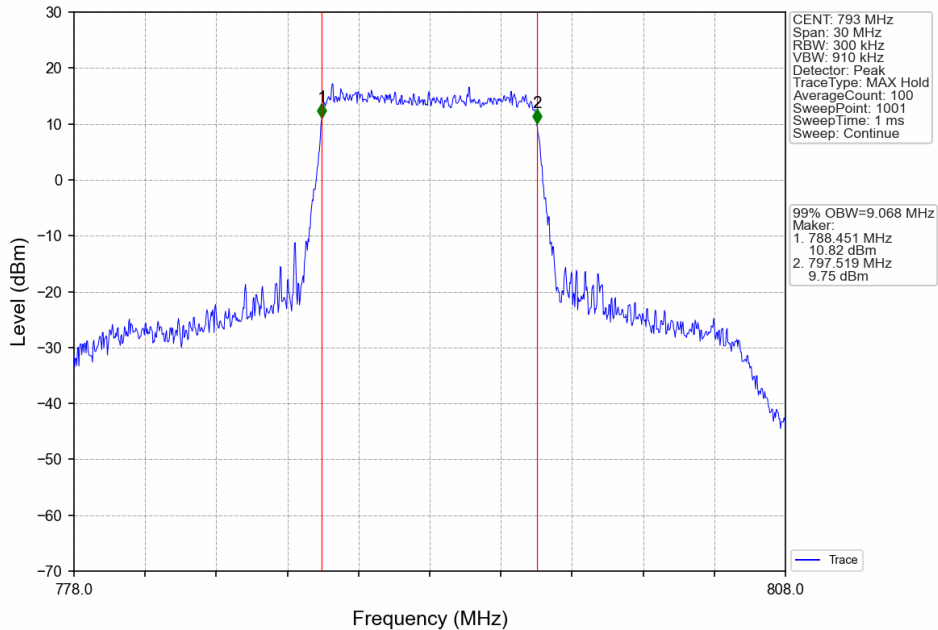
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Band14\_10MHz\_64QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



Band14\_10MHz\_256QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



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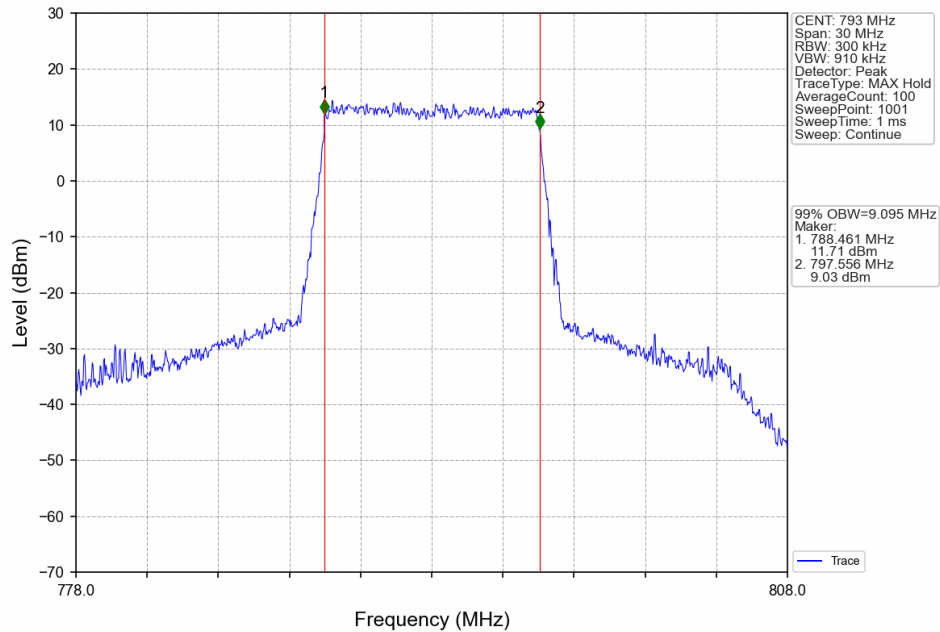
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## 4.2 Band14\_XDB

### 4.2.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	5.273	/	Pass
		793	25	0	5.296	/	Pass
		795.5	25	0	5.221	/	Pass
	16QAM	790.5	25	0	5.233	/	Pass
		793	25	0	5.156	/	Pass
		795.5	25	0	5.239	/	Pass
	64QAM	790.5	25	0	5.292	/	Pass
		793	25	0	5.230	/	Pass
		795.5	25	0	5.194	/	Pass
	256QAM	790.5	25	0	5.238	/	Pass
		793	25	0	5.239	/	Pass
		795.5	25	0	5.274	/	Pass
10	QPSK	793	50	0	10.316	/	Pass
	16QAM	793	50	0	10.199	/	Pass
	64QAM	793	50	0	10.131	/	Pass
	256QAM	793	50	0	10.140	/	Pass



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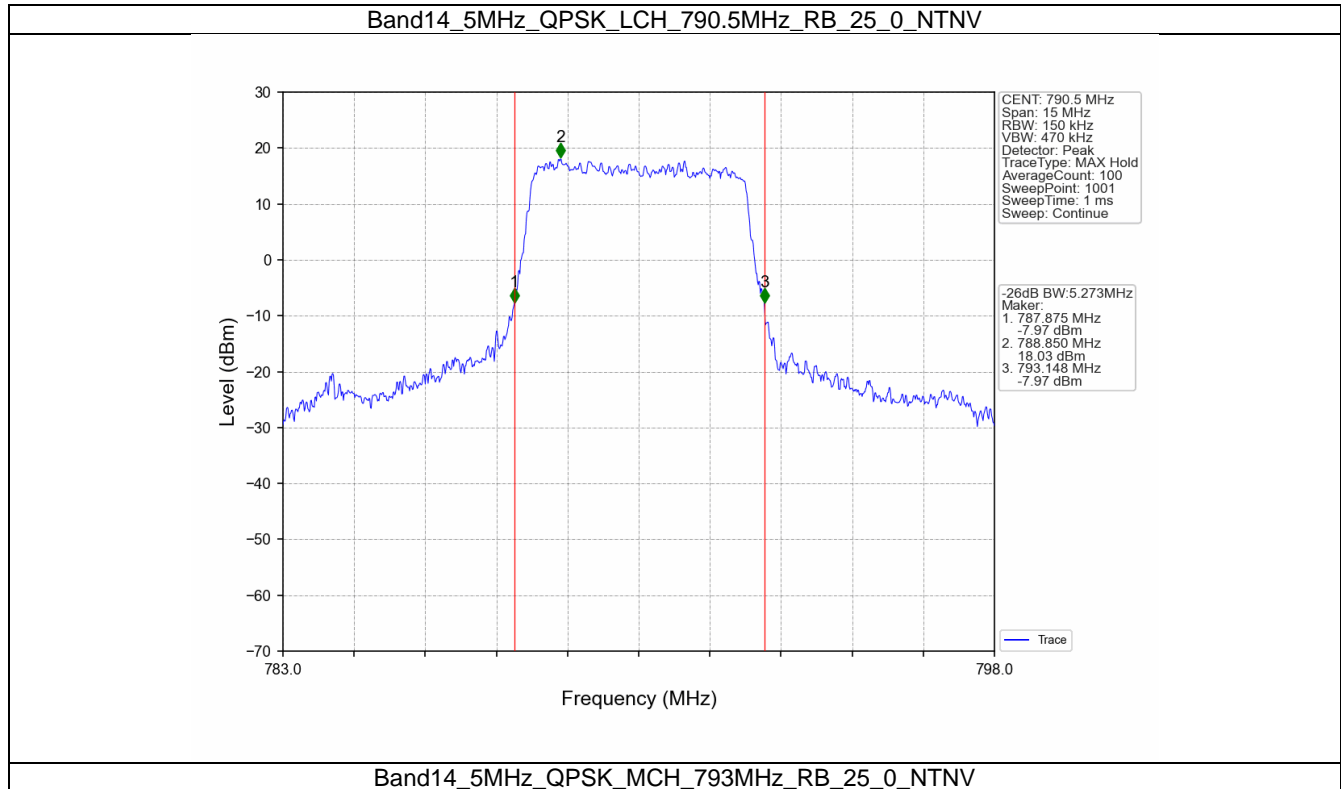
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### 4.2.2 Test Graph



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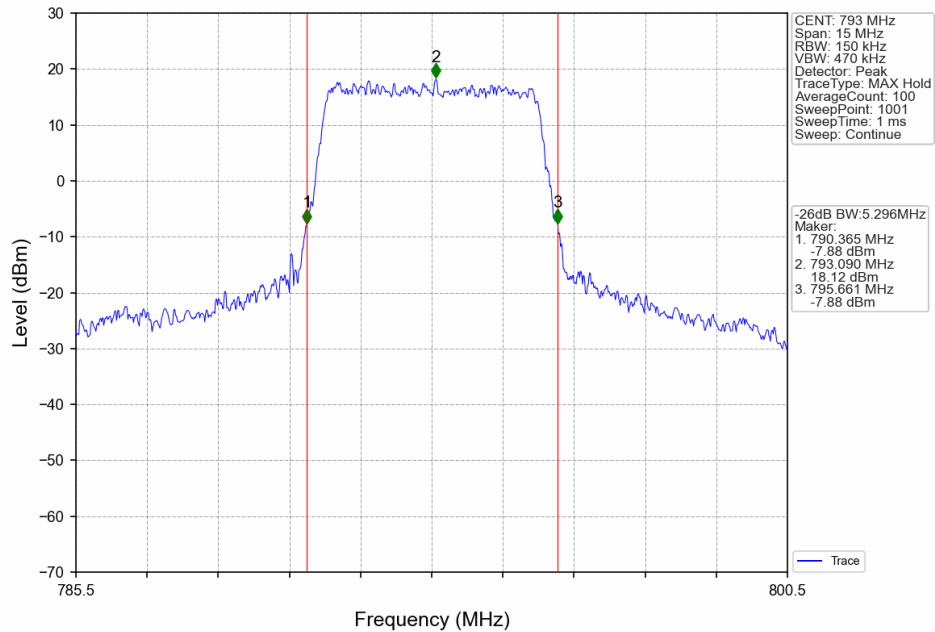
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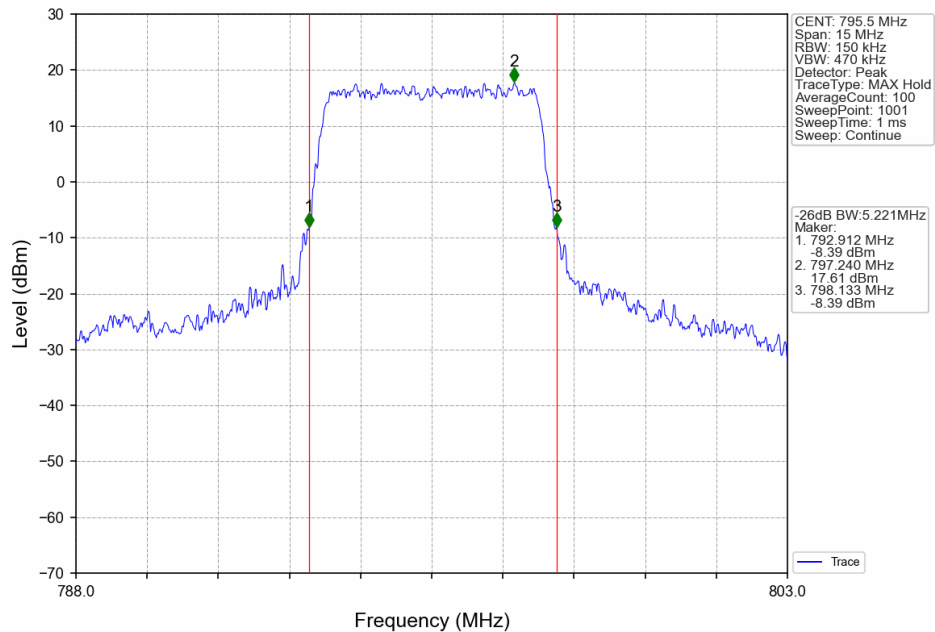
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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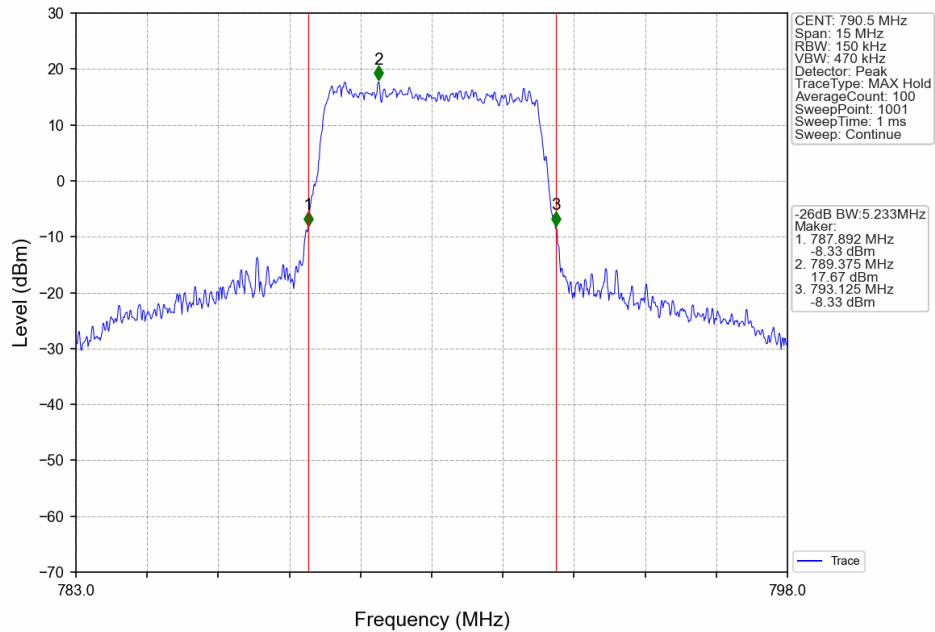
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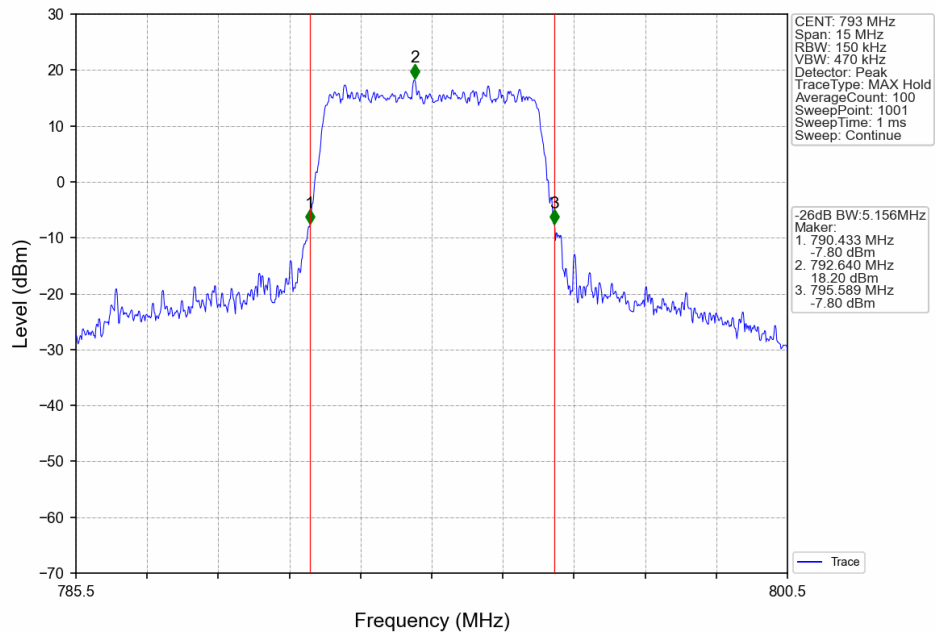
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Band14\_5MHz\_16QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



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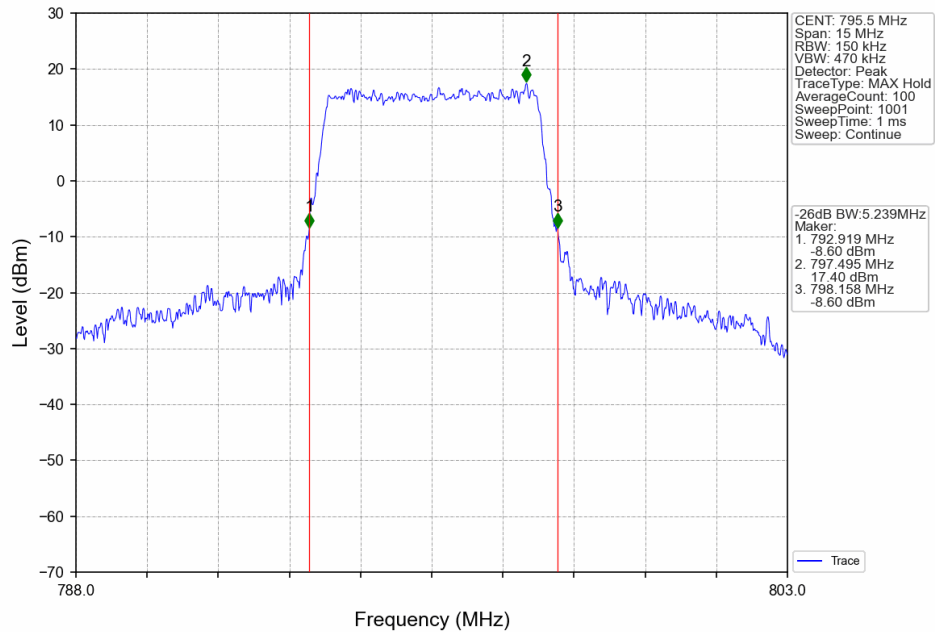
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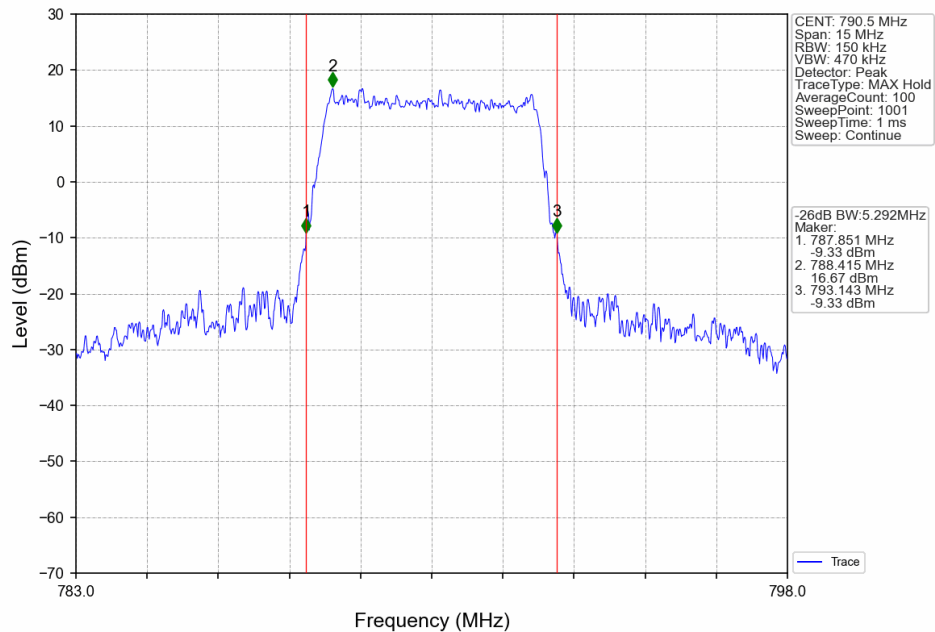
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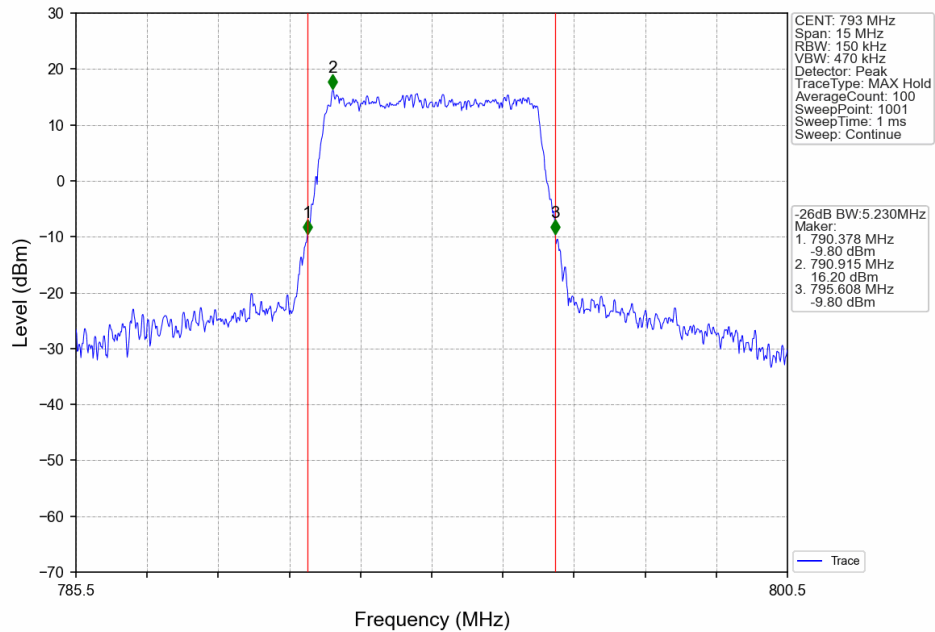
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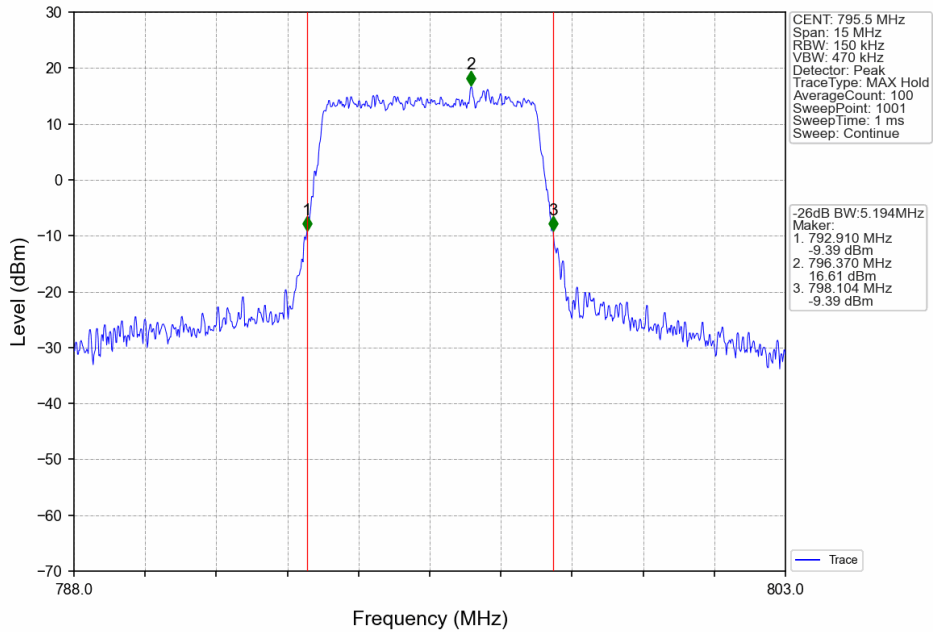
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Band14\_5MHz\_256QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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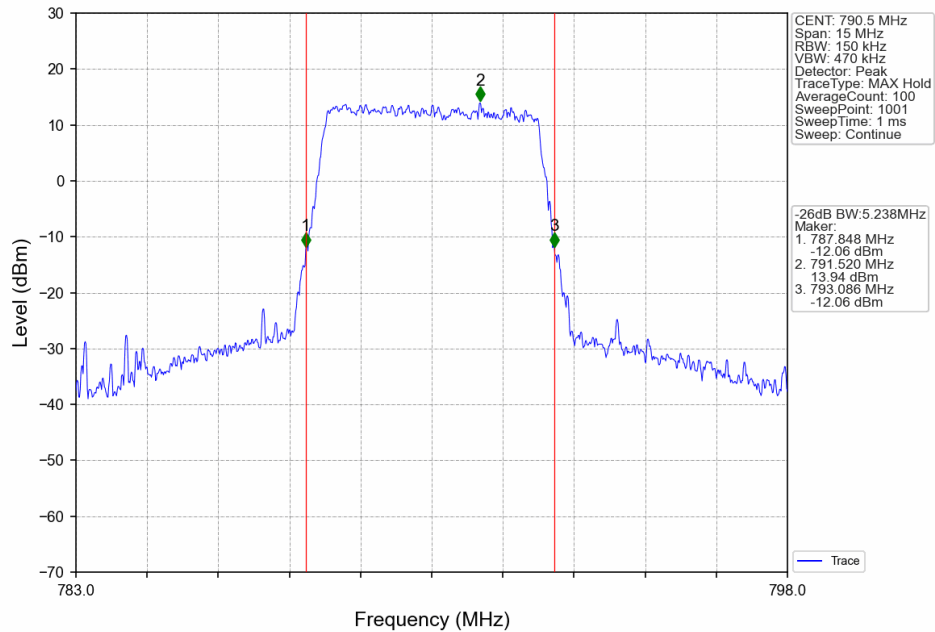
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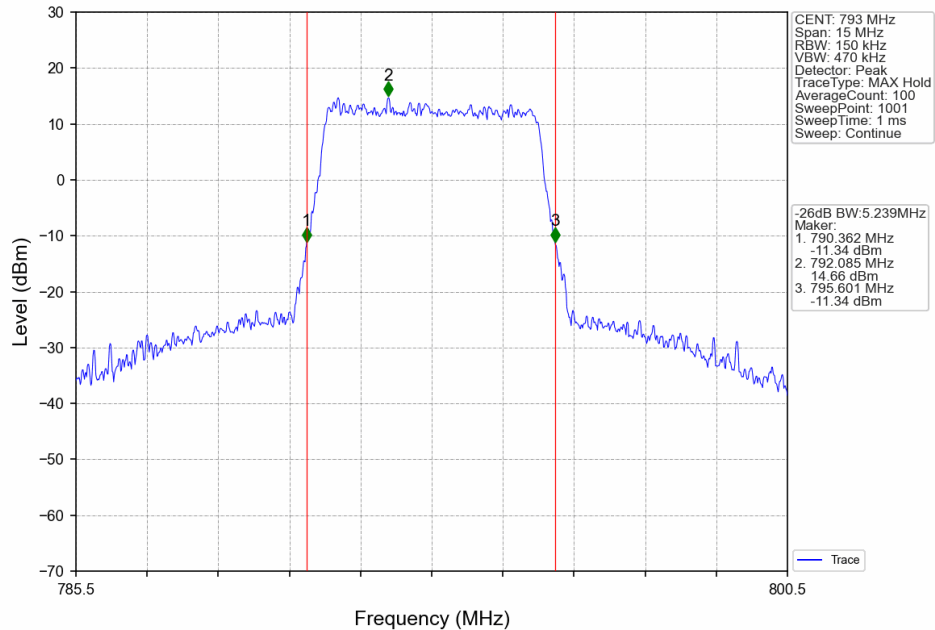
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Band14\_5MHz\_256QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_256QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



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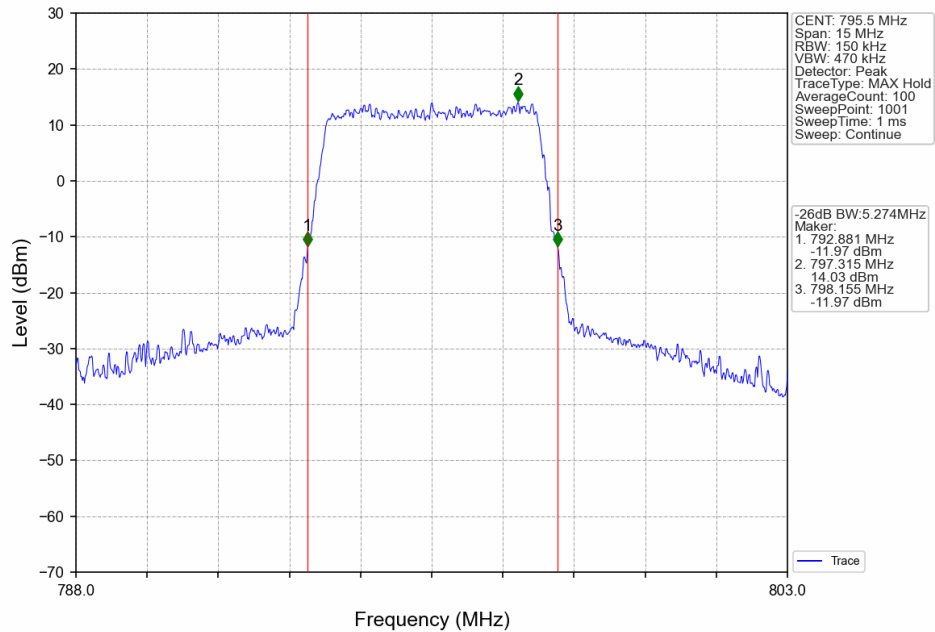
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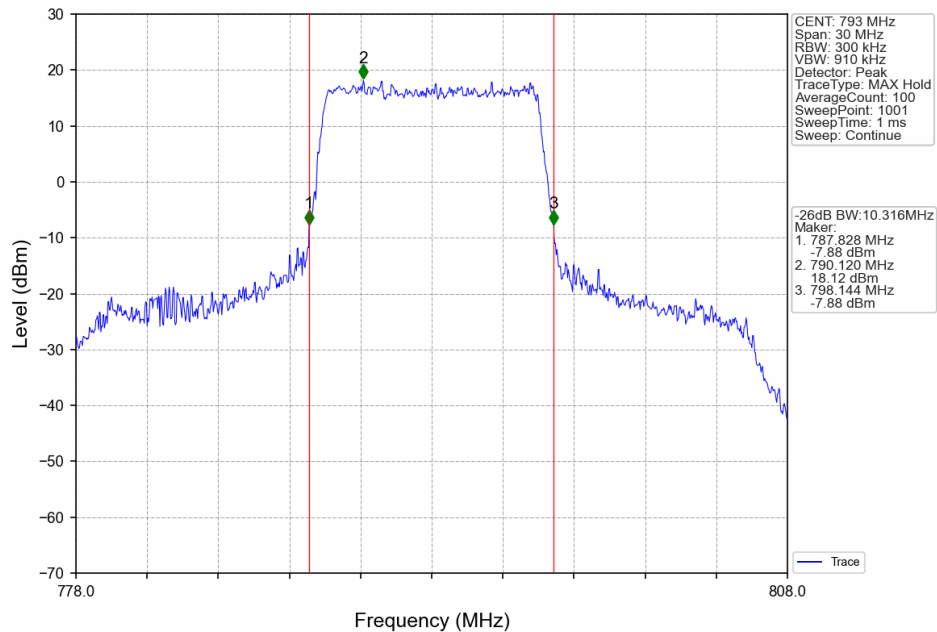
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Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_50\_0\_NTNV



Band14\_10MHz\_16QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



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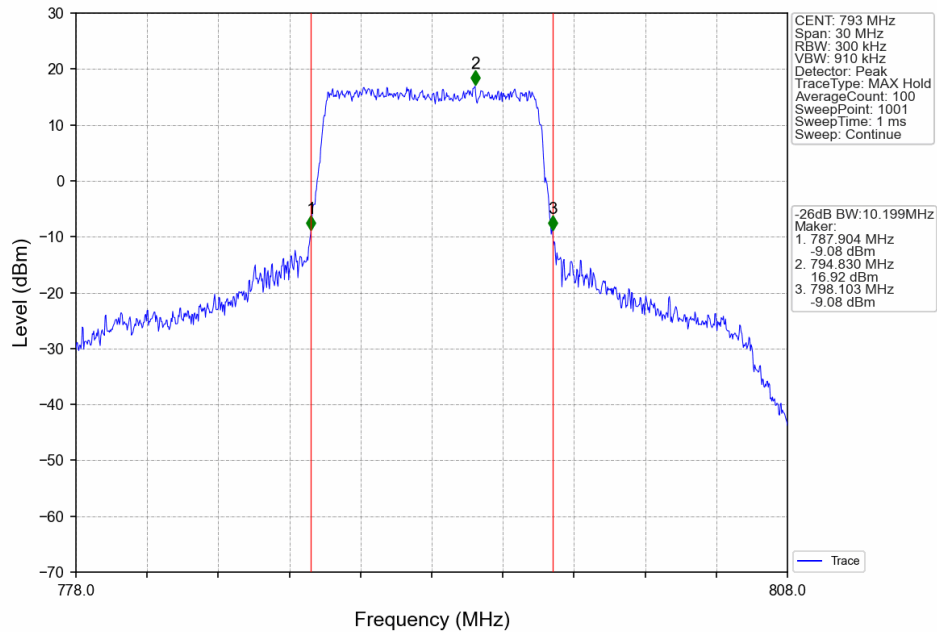
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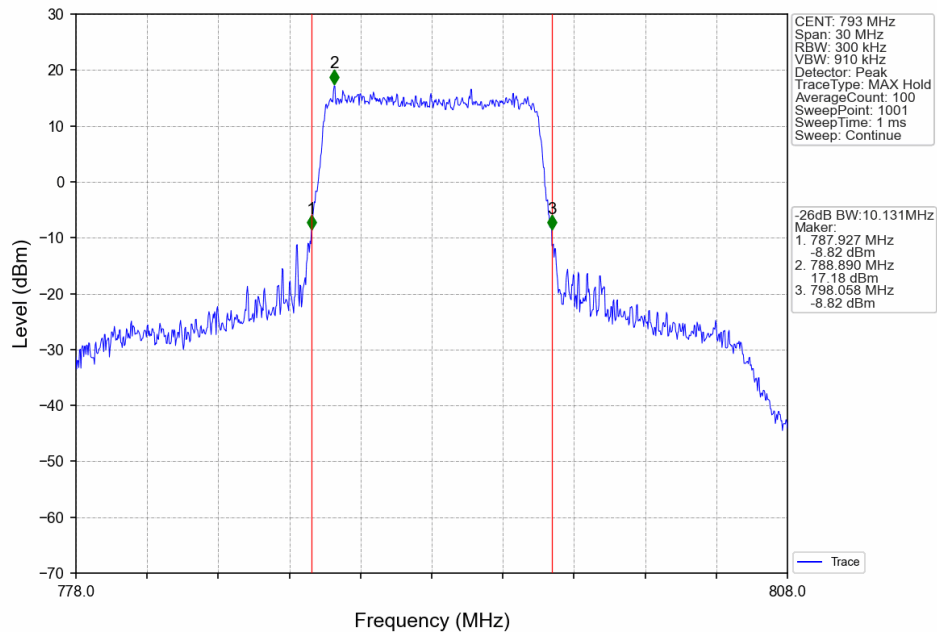
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Band14\_10MHz\_256QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



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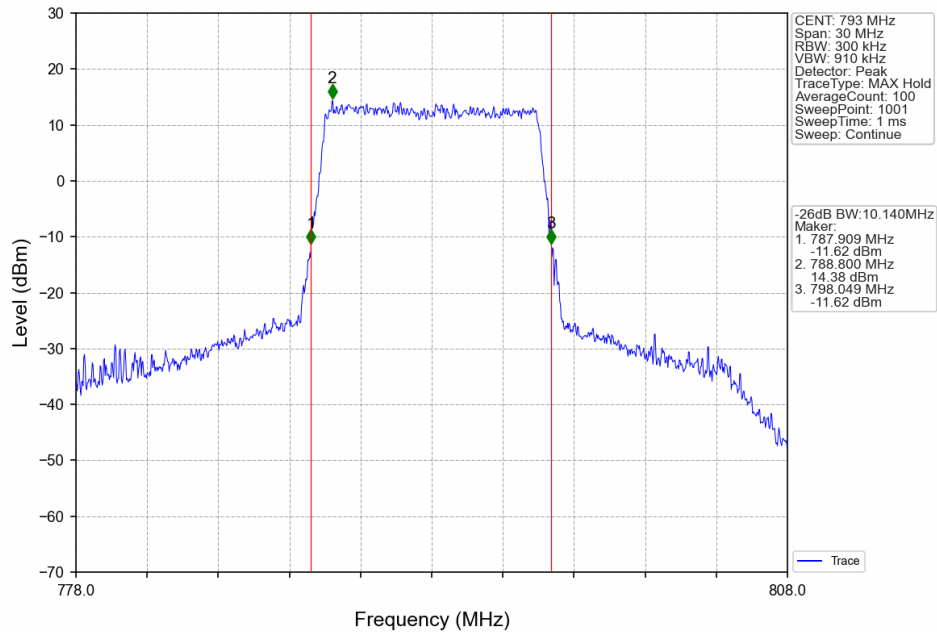
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## 5. Peak-Average Ratio

### 5.1 B14\_5MHz

#### 5.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	25	0	5.23	<=13	Pass
	793	25	0	5.47	<=13	Pass
	795.5	25	0	5.40	<=13	Pass
16QAM	790.5	25	0	6.06	<=13	Pass
	793	25	0	6.34	<=13	Pass
	795.5	25	0	6.27	<=13	Pass
64QAM	790.5	25	0	10.49	<=13	Pass
	793	25	0	10.94	<=13	Pass
	795.5	25	0	10.73	<=13	Pass
256QAM	790.5	25	0	6.91	<=13	Pass
	793	25	0	7.07	<=13	Pass
	795.5	25	0	7.01	<=13	Pass



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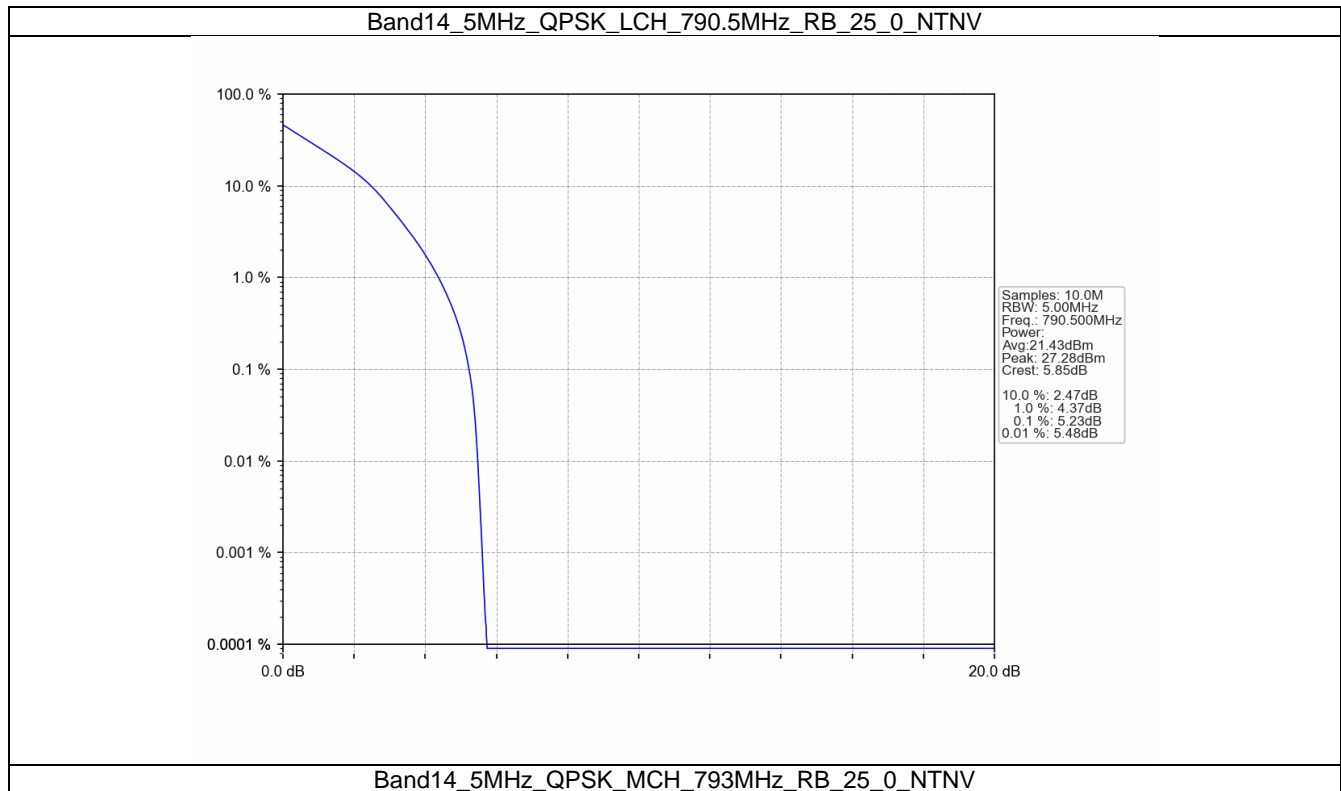
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### 5.1.2 Test Graph



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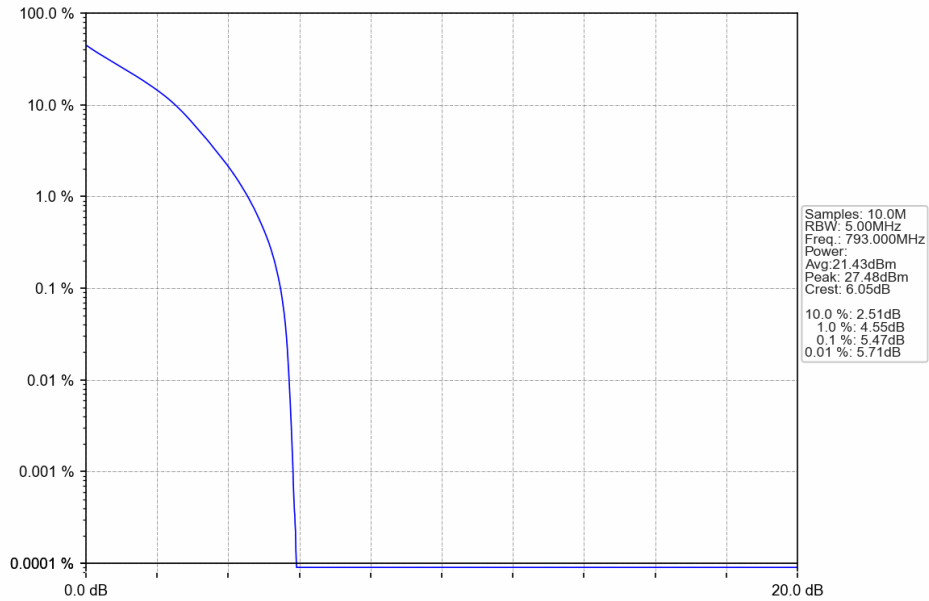
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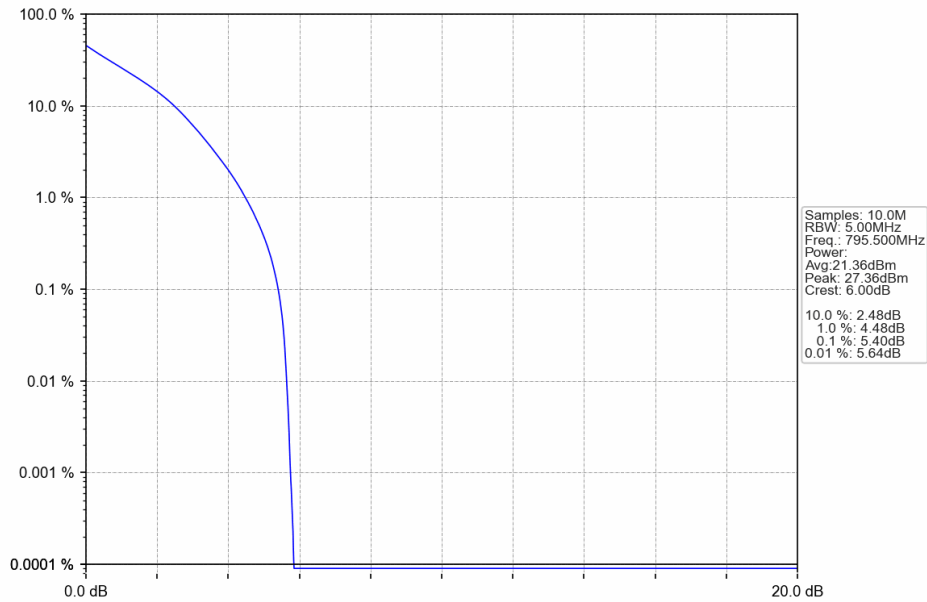


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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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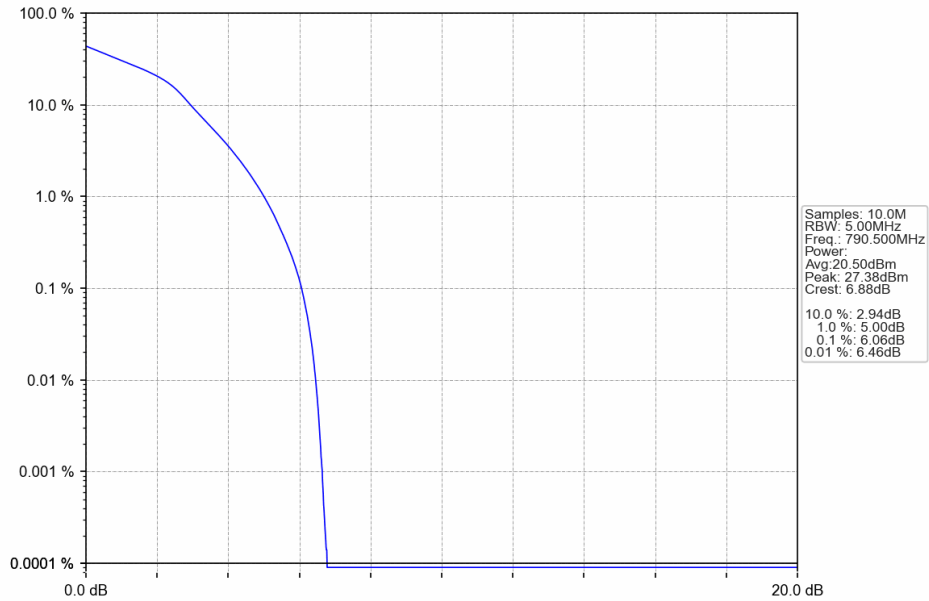
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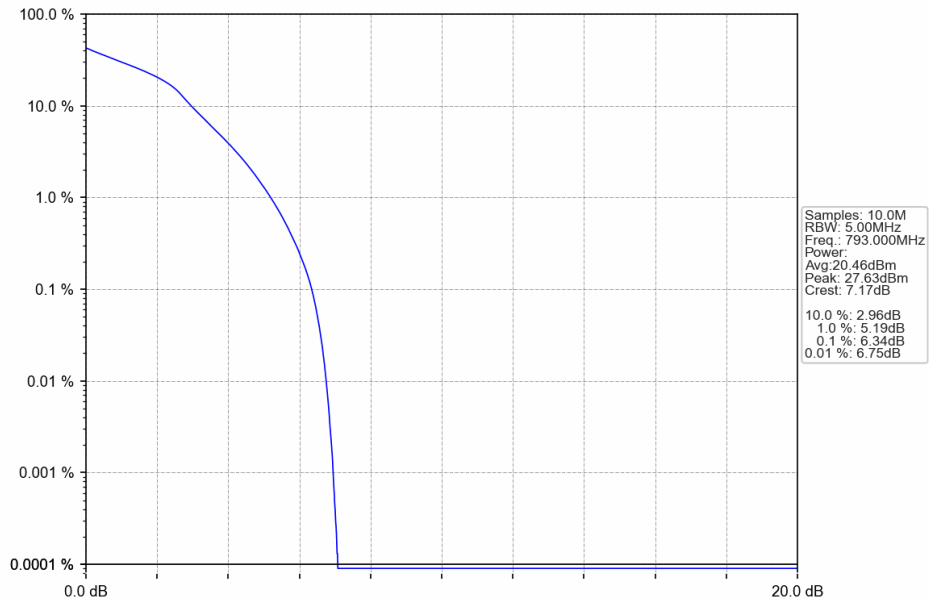
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Band14\_5MHz\_16QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_16QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



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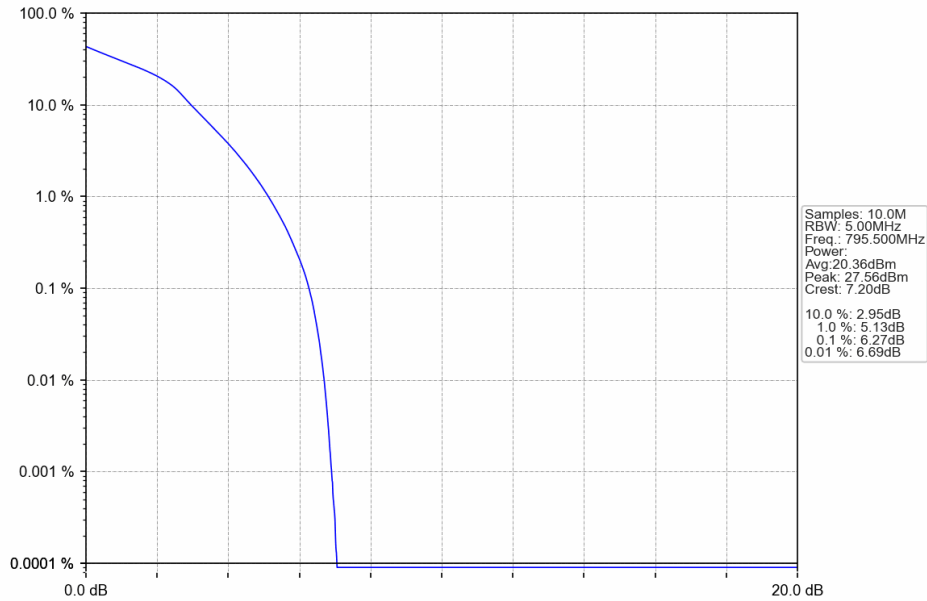
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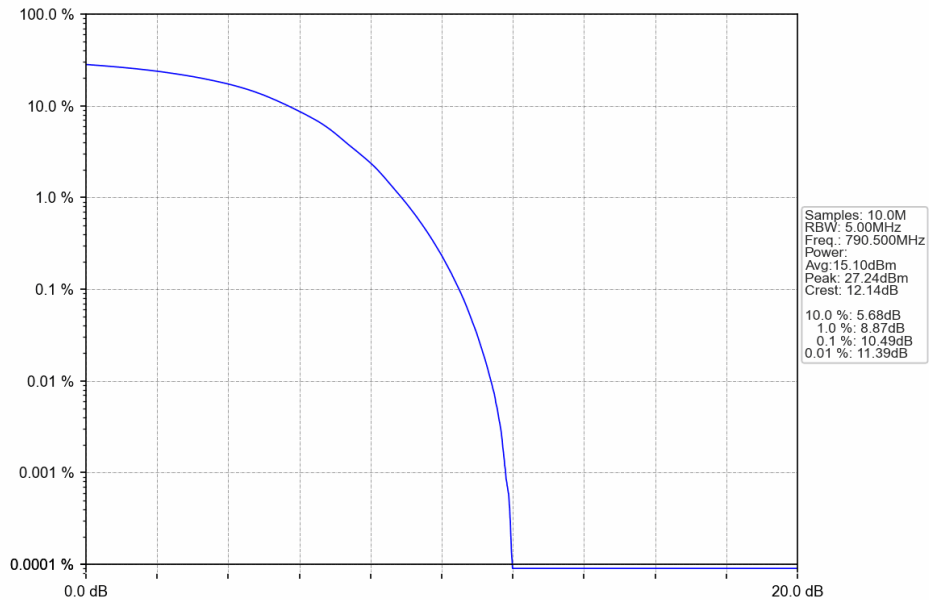
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Band14\_5MHz\_64QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_64QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



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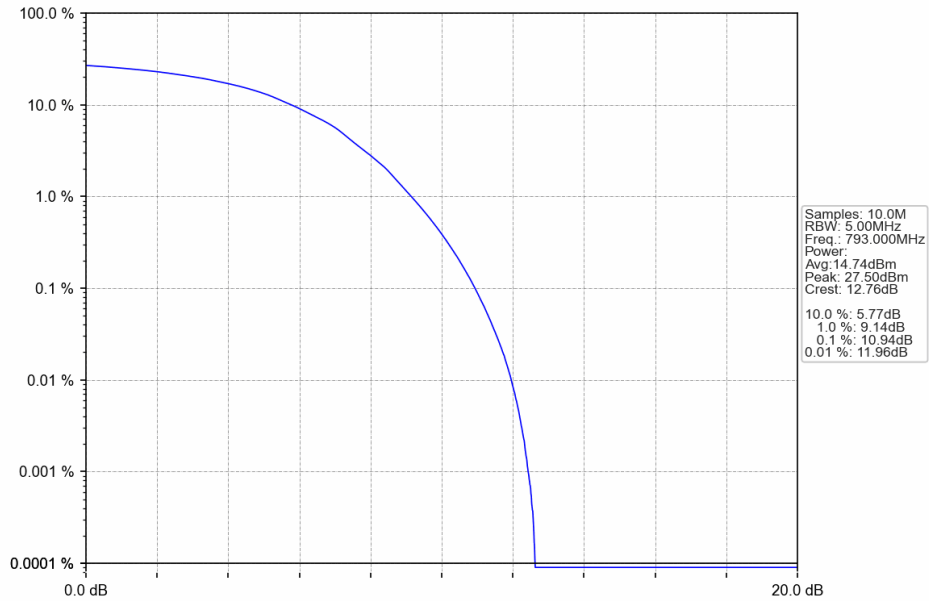
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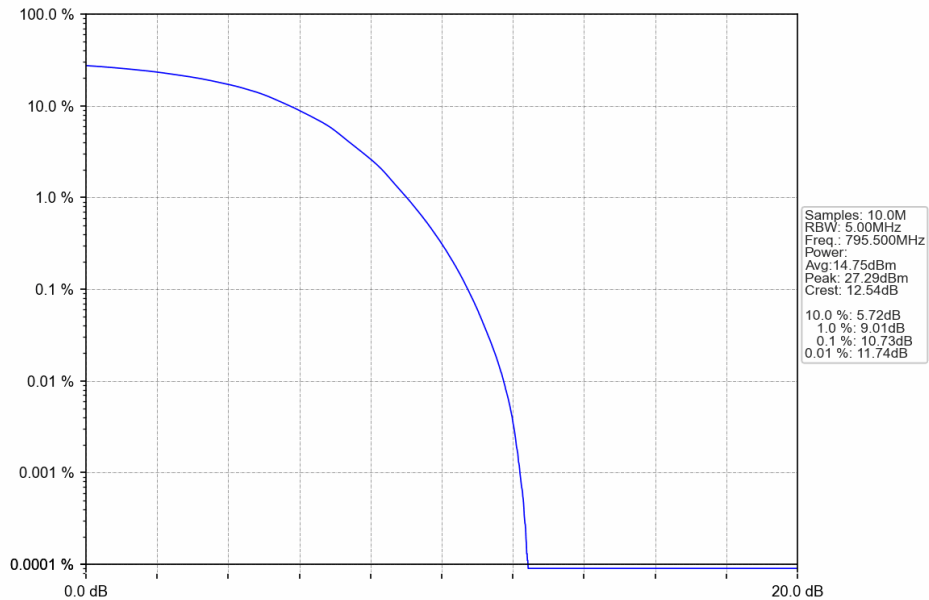


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Band14\_5MHz\_64QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_256QAM\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



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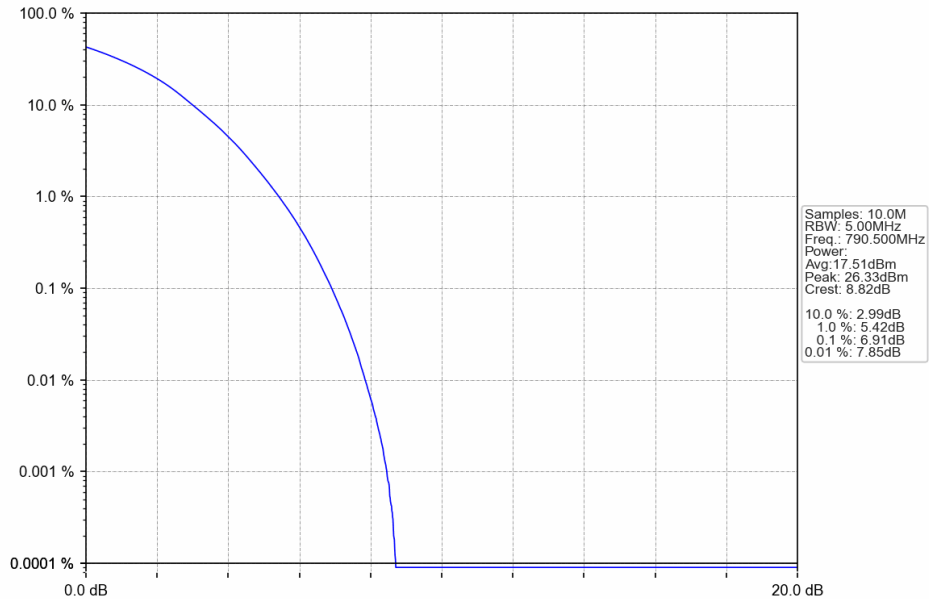
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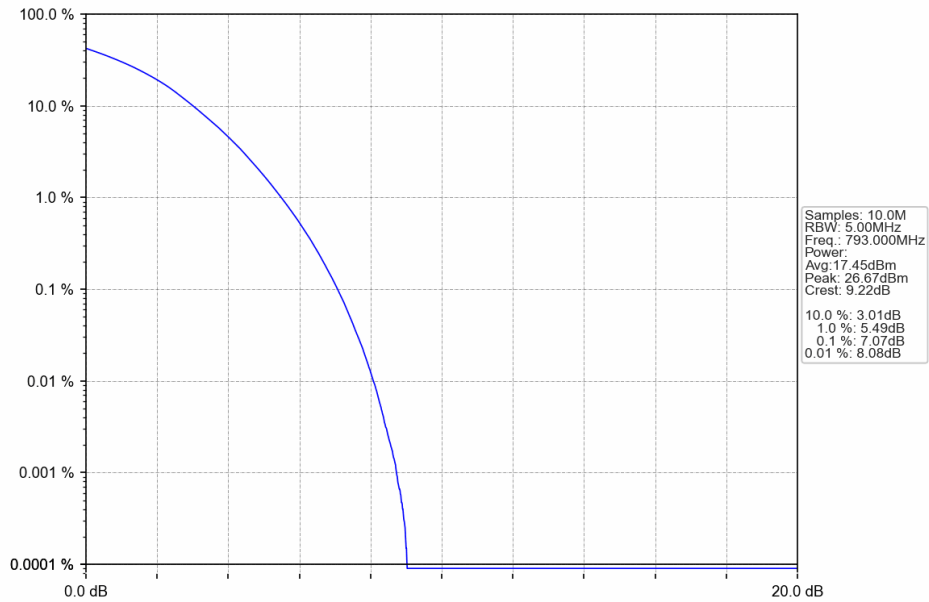
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Band14\_5MHz\_256QAM\_MCH\_793MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_256QAM\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



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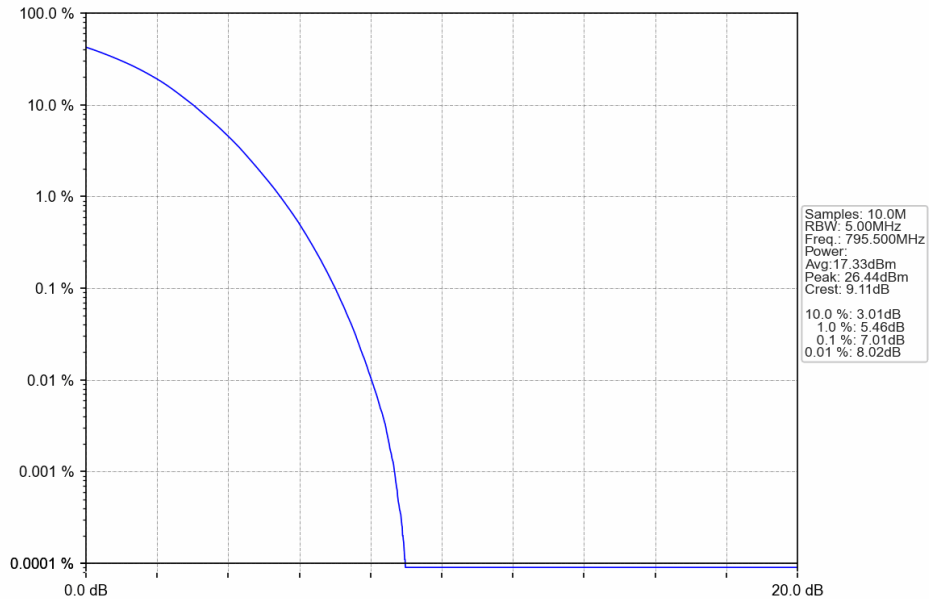
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## 5.2 B14\_10MHz

### 5.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.35	<=13	Pass
16QAM	793	50	0	6.17	<=13	Pass
64QAM	793	50	0	6.63	<=13	Pass
256QAM	793	50	0	6.93	<=13	Pass



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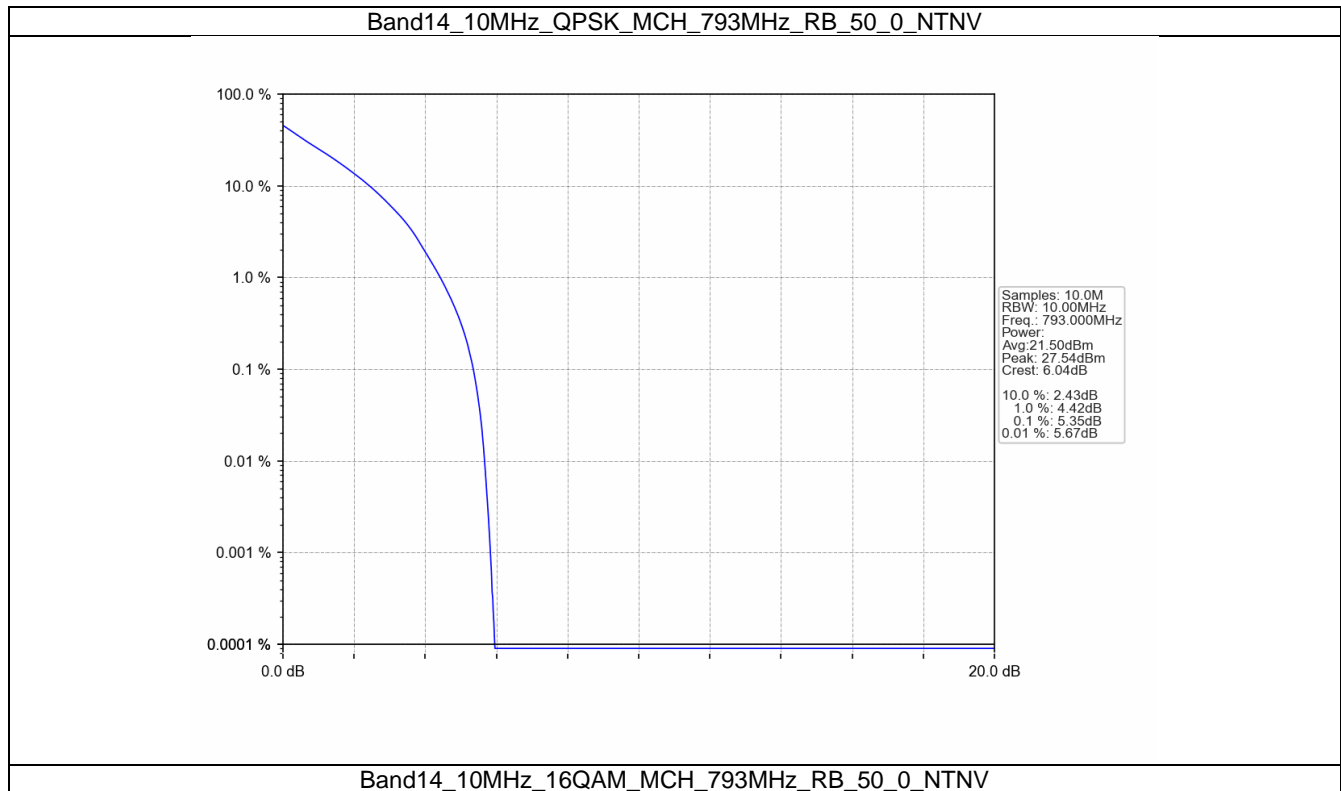
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### 5.2.2 Test Graph



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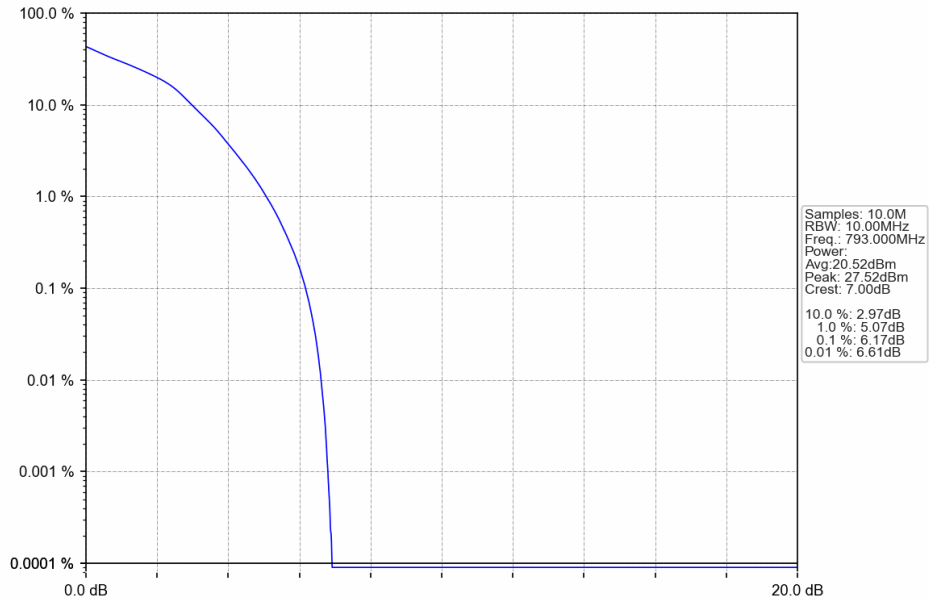
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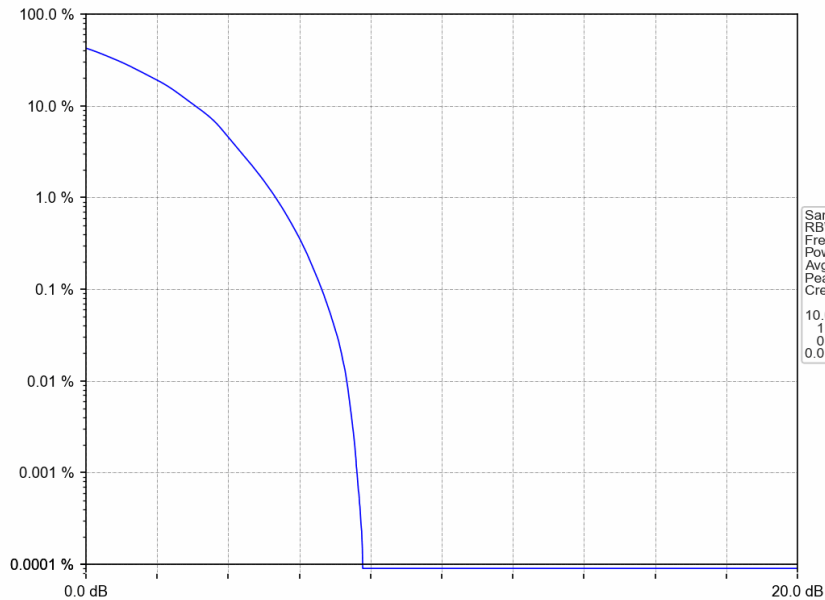
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Band14\_10MHz\_64QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



Samples: 10.0M  
RBW: 10.00MHz  
Freq.: 793.000MHz  
Power:  
Avg: 19.50dBm  
Peak: 27.50dBm  
Crest: 8.00dB  
10.0 %: 3.07dB  
1.0 %: 5.33dB  
0.1 %: 6.63dB  
0.01 %: 7.33dB

Band14\_10MHz\_256QAM\_MCH\_793MHz\_RB\_50\_0\_NTNV



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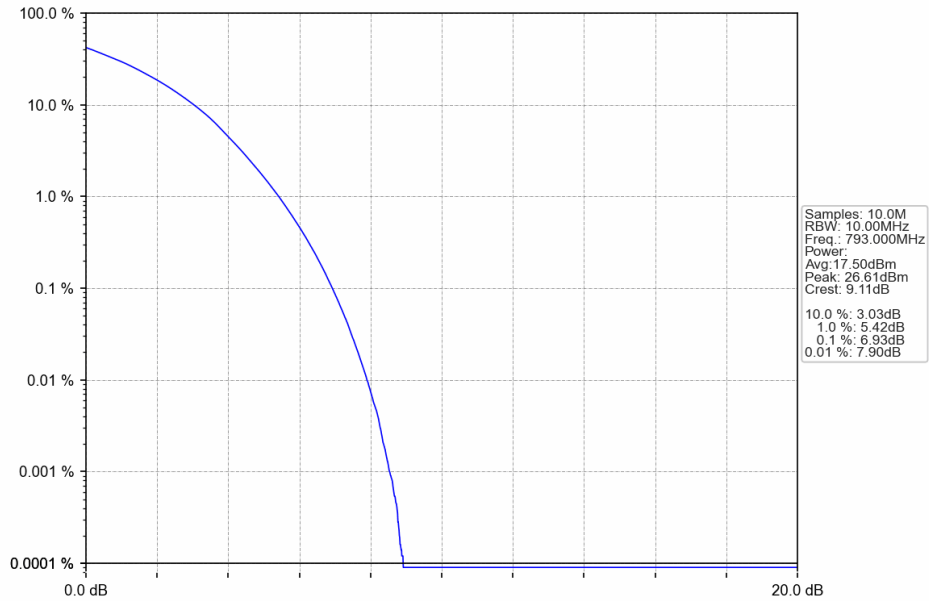
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## 6. Spurious Emission & Band Edges

### 6.1 B14\_5MHz

#### 6.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	793	1	0	Refer To Test Graph		Pass
	795.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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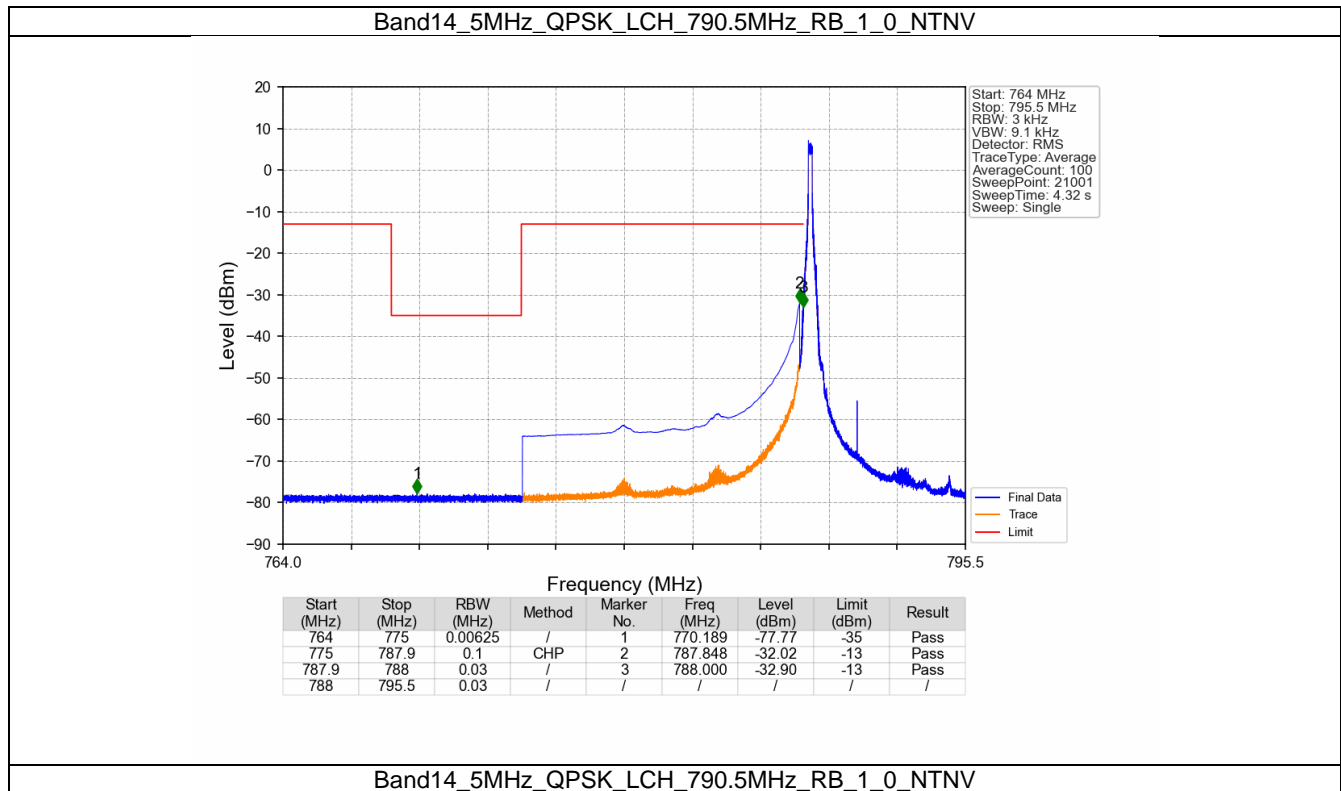
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## 6.1.2 Test Graph



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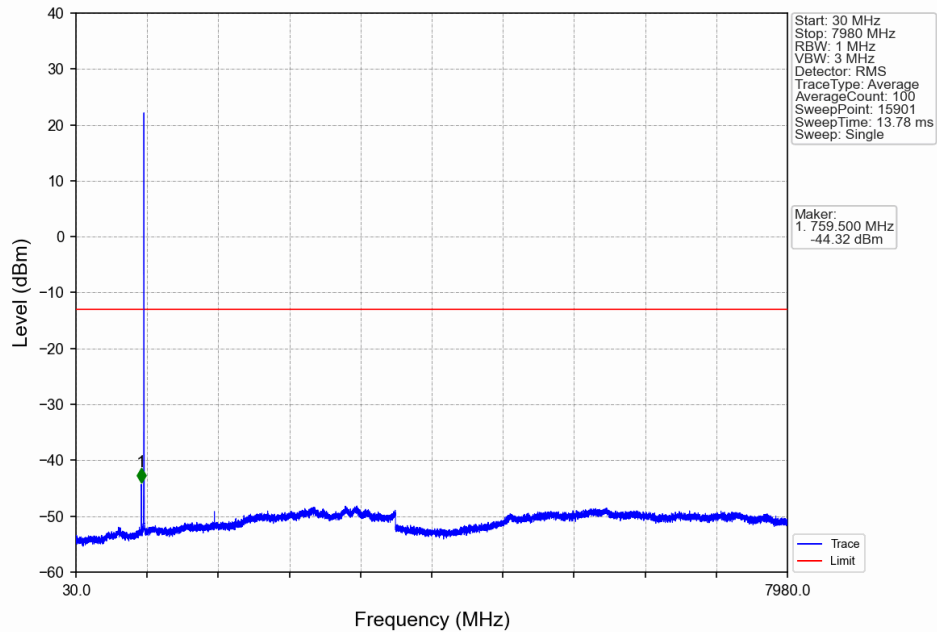
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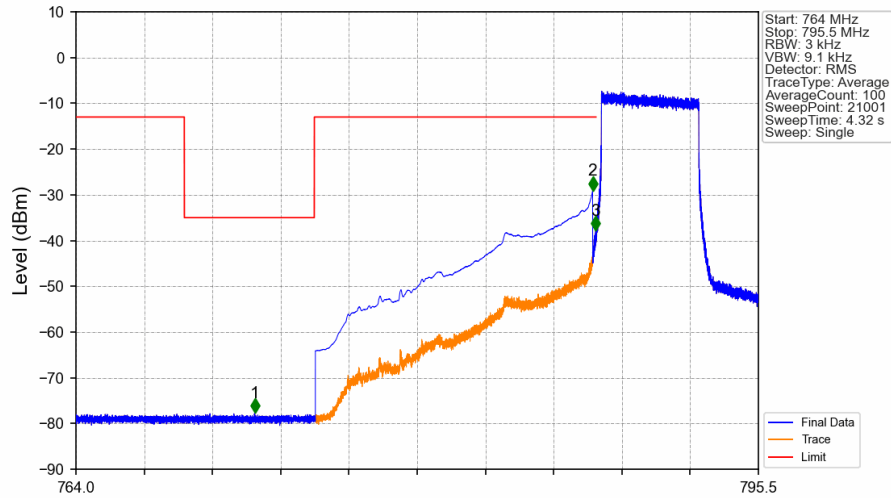


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### Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	772.253	-77.63	-35	Pass
775	787.9	0.1	CHP	2	787.848	-29.06	-13	Pass
787.9	788	0.03	/	3	787.988	-37.83	-13	Pass
788	795.5	0.03	/	/	/	/	/	/

### Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_1\_0\_NTNV



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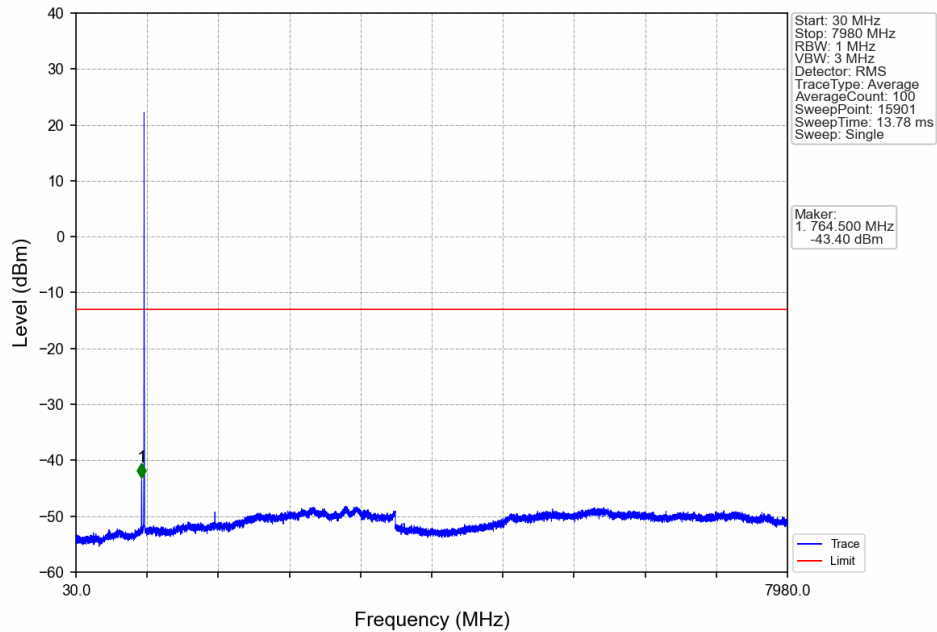
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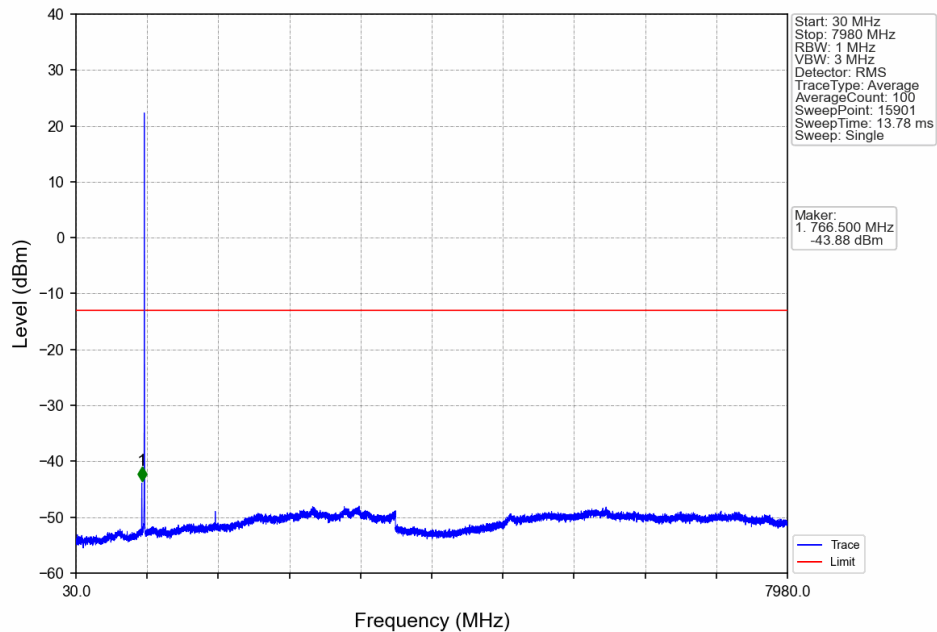
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_0\_NTNV



Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_24\_NTNV



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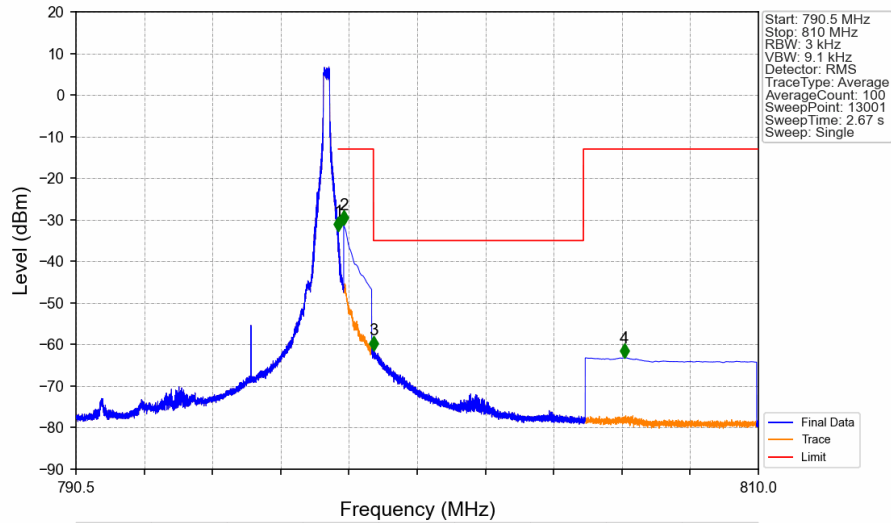
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	1	798.000	-32.77	-13	Pass
798.1	799	0.1	CHP	2	798.152	-31.27	-13	Pass
799	805	0.00625	/	3	799.005	-61.41	-35	Pass
805	810	0.1	CHP	4	806.170	-63.20	-13	Pass



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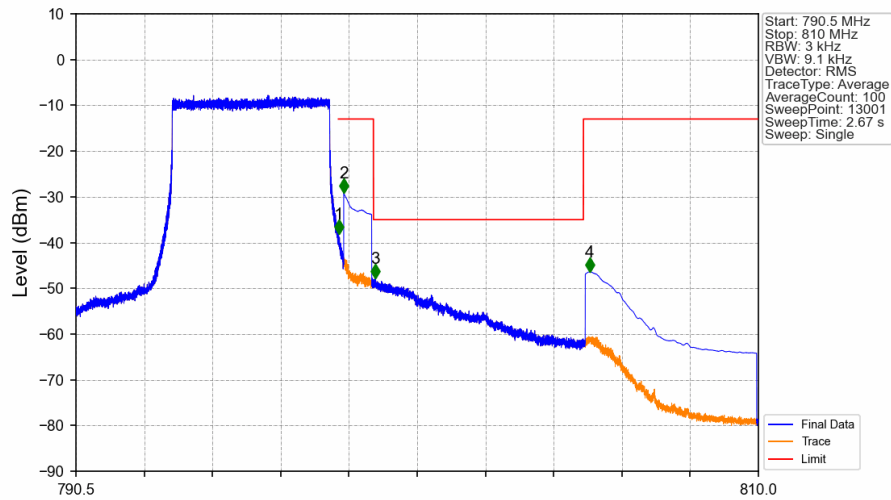
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	1	798.003	-38.17	-13	Pass
798.1	799	0.1	CHP	2	798.152	-29.11	-13	Pass
799	805	0.00625	/	3	799.050	-47.82	-35	Pass
805	810	0.1	CHP	4	805.183	-46.40	-13	Pass



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## 6.2 B14\_10MHz

### 6.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	793	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	793	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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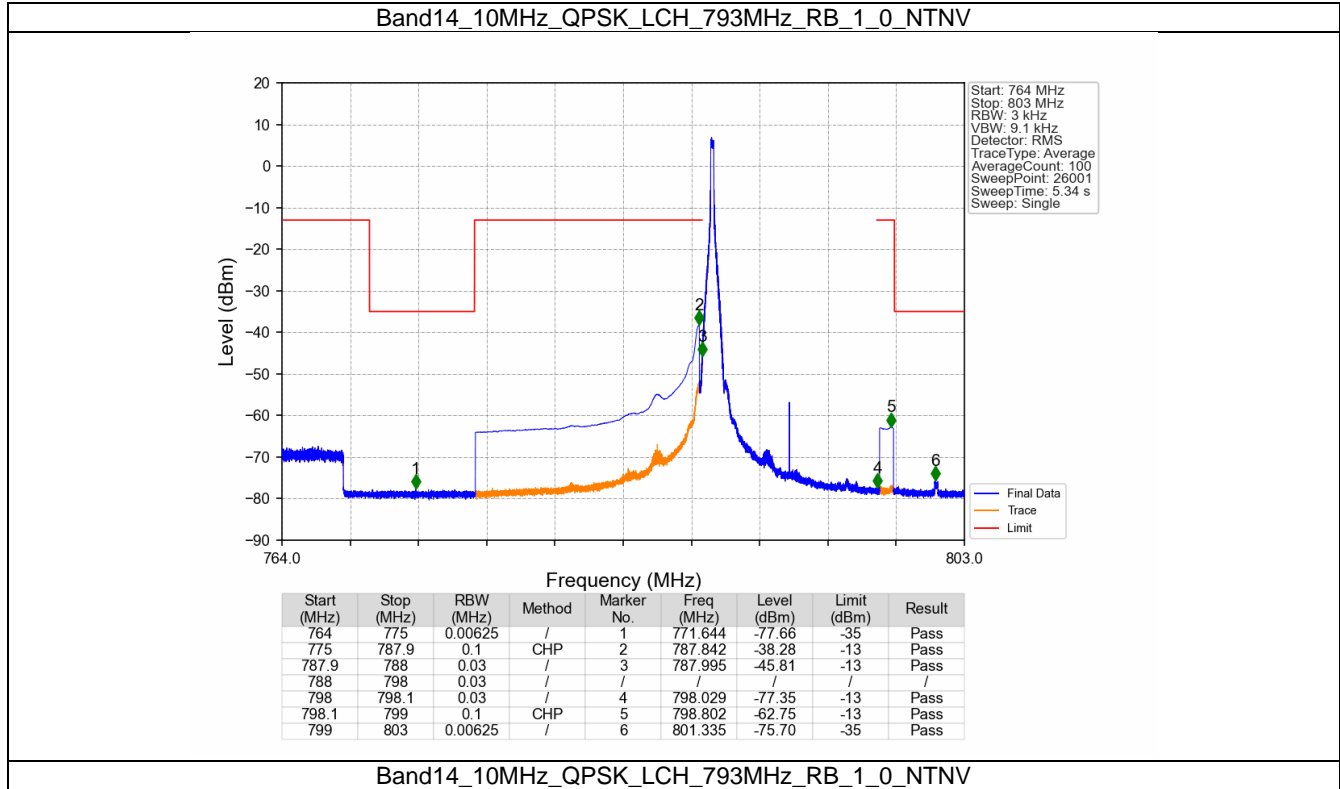


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### 6.2.2 Test Graph



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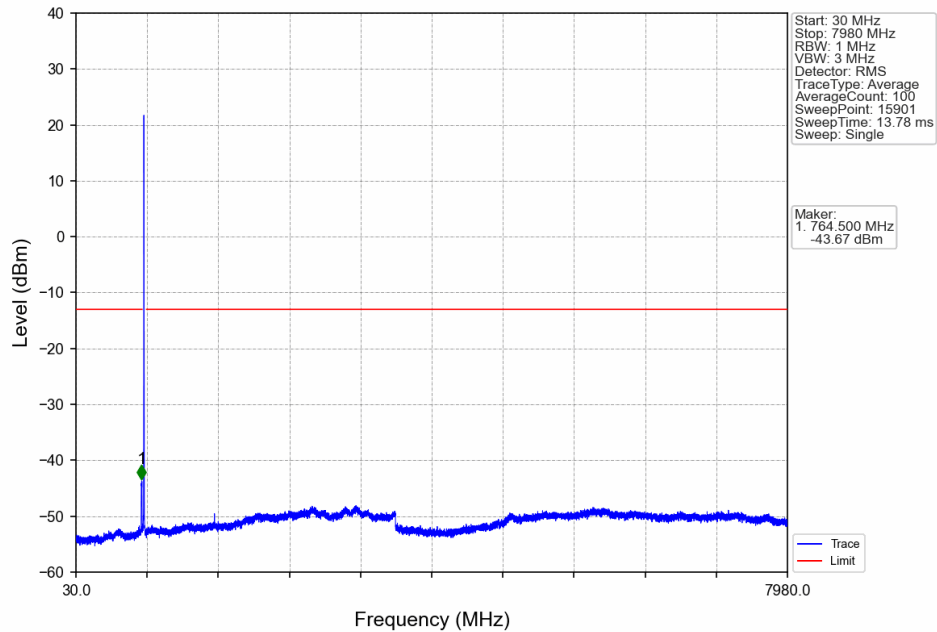
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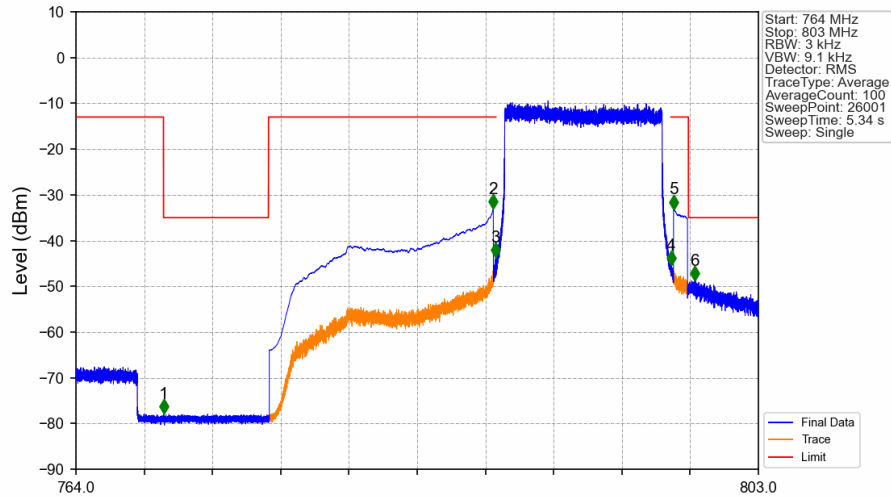
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### Band14\_10MHz\_QPSK\_LCH\_793MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	769.005	-77.89	-35	Pass
775	787.9	0.1	CHP	2	787.848	-33.09	-13	Pass
787.9	788	0.03	/	3	787.986	-43.69	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	4	798.021	-45.33	-13	Pass
798.1	799	0.1	CHP	5	798.150	-33.14	-13	Pass
799	803	0.00625	/	6	799.369	-48.73	-35	Pass

### Band14\_10MHz\_QPSK\_HCH\_793MHz\_RB\_1\_49\_NTNV



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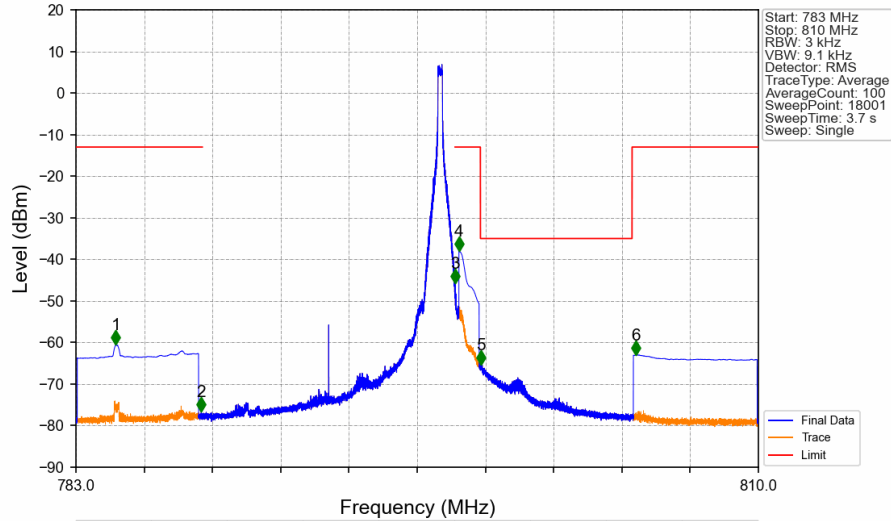
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	784.572	-60.49	-13	Pass
787.9	788	0.03	/	2	787.959	-76.62	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.001	-45.82	-13	Pass
798.1	799	0.1	CHP	4	798.152	-37.96	-13	Pass
799	805	0.00625	/	5	799.006	-65.41	-35	Pass
805	810	0.1	CHP	6	805.139	-62.98	-13	Pass



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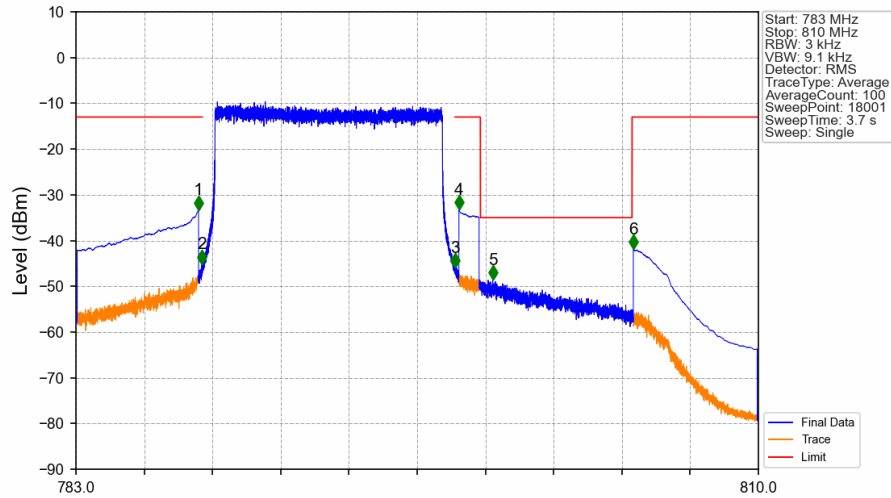
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Band14\_10MHz\_QPSK\_HCH\_793MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	787.850	-33.30	-13	Pass
787.9	788	0.03	/	2	787.986	-45.13	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.012	-45.85	-13	Pass
798.1	799	0.1	CHP	4	798.152	-33.19	-13	Pass
799	805	0.00625	/	5	799.488	-48.59	-35	Pass
805	810	0.1	CHP	6	805.052	-41.83	-13	Pass



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## 7. Emission Mask

### 7.1 B14\_5MHz

#### 7.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTN/V								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	790.5	1	0	773	778	-60.59	-13	Pass
				778	785.5	-50.42	-14.29	Pass
				785.5	787.95	-19.72	-4.29	Pass
				787.95	793.05	20.71	20.71	Pass
				793.05	795.5	-59.47	-4.29	Pass
				795.5	803	-61.27	-14.29	Pass
				803	808	-61.44	-13	Pass
			13	773	778	-60.84	-13	Pass
				778	785.5	-57.86	-14.78	Pass
				785.5	787.95	-47.60	-4.78	Pass
				787.95	793.05	20.22	20.22	Pass
				793.05	795.5	-49.56	-4.78	Pass
				795.5	803	-58.93	-14.78	Pass
			24	803	808	-61.46	-13	Pass
				773	778	-60.54	-13	Pass
				778	785.5	-59.21	-14.84	Pass
				785.5	787.95	-54.00	-4.84	Pass
				787.95	793.05	20.16	20.16	Pass
				793.05	795.5	-27.57	-4.84	Pass
			12	795.5	803	-53.96	-14.84	Pass
				803	808	-61.46	-13	Pass
				773	778	-60.48	-13	Pass
				778	785.5	-39.23	-25.06	Pass
				785.5	787.95	-21.06	-15.06	Pass
				787.95	793.05	9.94	9.94	Pass
				793.05	795.5	-39.34	-15.06	Pass
				795.5	803	-51.05	-25.06	Pass
				803	808	-61.22	-13	Pass
				773	778	-60.30	-13	Pass
				778	785.5	-44.98	-25.16	Pass
				785.5	787.95	-31.07	-15.16	Pass
			6	787.95	793.05	9.84	9.84	Pass
				793.05	795.5	-32.78	-15.16	Pass
				795.5	803	-46.55	-25.16	Pass
				803	808	-61.65	-13	Pass
			13	773	778	-60.62	-13	Pass
				778	785.5	-49.58	-24.9	Pass



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				785.5	787.95	-35.63	-14.9	Pass
				787.95	793.05	10.10	10.1	Pass
				793.05	795.5	-26.41	-14.9	Pass
				795.5	803	-39.40	-24.9	Pass
				803	808	-61.43	-13	Pass
				773	778	-52.89	-13	Pass
				778	785.5	-35.62	-27.81	Pass
				785.5	787.95	-26.74	-17.81	Pass
				787.95	793.05	7.19	7.19	Pass
				793.05	795.5	-23.95	-17.81	Pass
				795.5	803	-35.88	-27.81	Pass
				803	808	-53.11	-13	Pass
	793		0	775.5	780.5	-60.74	-13	Pass
				780.5	788	-56.38	-14.85	Pass
				788	790.45	-22.41	-4.85	Pass
				790.45	795.55	20.15	20.15	Pass
				795.55	798	-58.64	-4.85	Pass
				798	805.5	-60.74	-14.85	Pass
				805.5	810.5	-62.02	-13	Pass
				775.5	780.5	-60.64	-13	Pass
				780.5	788	-58.75	-14.57	Pass
				788	790.45	-48.89	-4.57	Pass
				790.45	795.55	20.43	20.43	Pass
				795.55	798	-47.22	-4.57	Pass
		1	13	798	805.5	-58.04	-14.57	Pass
				805.5	810.5	-61.34	-13	Pass
				775.5	780.5	-60.87	-13	Pass
				780.5	788	-59.13	-14.48	Pass
				788	790.45	-58.24	-4.48	Pass
				790.45	795.55	20.52	20.52	Pass
				795.55	798	-24.94	-4.48	Pass
				798	805.5	-54.56	-14.48	Pass
				805.5	810.5	-61.11	-13	Pass
		12	0	775.5	780.5	-60.11	-13	Pass
				780.5	788	-38.71	-25.09	Pass
				788	790.45	-22.36	-15.09	Pass
				790.45	795.55	9.91	9.91	Pass
				795.55	798	-38.79	-15.09	Pass
				798	805.5	-49.21	-25.09	Pass
			6	805.5	810.5	-61.49	-13	Pass
				775.5	780.5	-60.52	-13	Pass
				780.5	788	-43.37	-24.95	Pass
				788	790.45	-31.73	-14.95	Pass
				790.45	795.55	10.05	10.05	Pass
				795.55	798	-33.42	-14.95	Pass
		13		798	805.5	-45.00	-24.95	Pass
				805.5	810.5	-61.39	-13	Pass
				775.5	780.5	-60.58	-13	Pass
				780.5	788	-47.18	-25.28	Pass



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			25	0	788	790.45	-37.94	-15.28	Pass
					790.45	795.55	9.72	9.72	Pass
					795.55	798	-25.79	-15.28	Pass
					798	805.5	-40.24	-25.28	Pass
					805.5	810.5	-61.44	-13	Pass
					775.5	780.5	-51.84	-13	Pass
					780.5	788	-34.26	-28.6	Pass
					788	790.45	-25.21	-18.6	Pass
					790.45	795.55	6.40	6.4	Pass
					795.55	798	-25.50	-18.6	Pass
					798	805.5	-33.63	-28.6	Pass
					805.5	810.5	-53.81	-13	Pass
	795.5		1	0	778	783	-60.04	-13	Pass
					783	790.5	-55.89	-14.96	Pass
					790.5	792.95	-20.67	-4.96	Pass
					792.95	798.05	20.04	20.04	Pass
					798.05	800.5	-58.68	-4.96	Pass
					800.5	808	-60.98	-14.96	Pass
				13	808	813	-61.96	-13	Pass
					778	783	-60.75	-13	Pass
					783	790.5	-58.86	-14.87	Pass
					790.5	792.95	-50.70	-4.87	Pass
					792.95	798.05	20.13	20.13	Pass
					798.05	800.5	-47.27	-4.87	Pass
				24	800.5	808	-58.79	-14.87	Pass
					808	813	-61.58	-13	Pass
					778	783	-60.65	-13	Pass
					783	790.5	-56.59	-14.93	Pass
					790.5	792.95	-57.66	-4.93	Pass
					792.95	798.05	20.07	20.07	Pass
			12	0	798.05	800.5	-24.89	-4.93	Pass
					800.5	808	-53.45	-14.93	Pass
					808	813	-61.42	-13	Pass
					778	783	-60.24	-13	Pass
					783	790.5	-39.54	-25.23	Pass
					790.5	792.95	-20.93	-15.23	Pass
				6	792.95	798.05	9.77	9.77	Pass
					798.05	800.5	-38.24	-15.23	Pass
					800.5	808	-48.88	-25.23	Pass
					808	813	-61.70	-13	Pass
					778	783	-60.39	-13	Pass
					783	790.5	-42.99	-25.78	Pass
				13	790.5	792.95	-33.42	-15.78	Pass
					792.95	798.05	9.22	9.22	Pass
					798.05	800.5	-32.80	-15.78	Pass
					800.5	808	-44.19	-25.78	Pass
					808	813	-61.63	-13	Pass
					778	783	-60.67	-13	Pass
					783	790.5	-48.42	-25.68	Pass



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				790.5	792.95	-37.48	-15.68	Pass
				792.95	798.05	9.32	9.32	Pass
				798.05	800.5	-24.40	-15.68	Pass
				800.5	808	-40.61	-25.68	Pass
				808	813	-61.39	-13	Pass
		25	0	778	783	-51.21	-13	Pass
				783	790.5	-36.27	-28.26	Pass
				790.5	792.95	-27.33	-18.26	Pass
				792.95	798.05	6.74	6.74	Pass
				798.05	800.5	-25.88	-18.26	Pass
				800.5	808	-36.87	-28.26	Pass
				808	813	-61.33	-13	Pass



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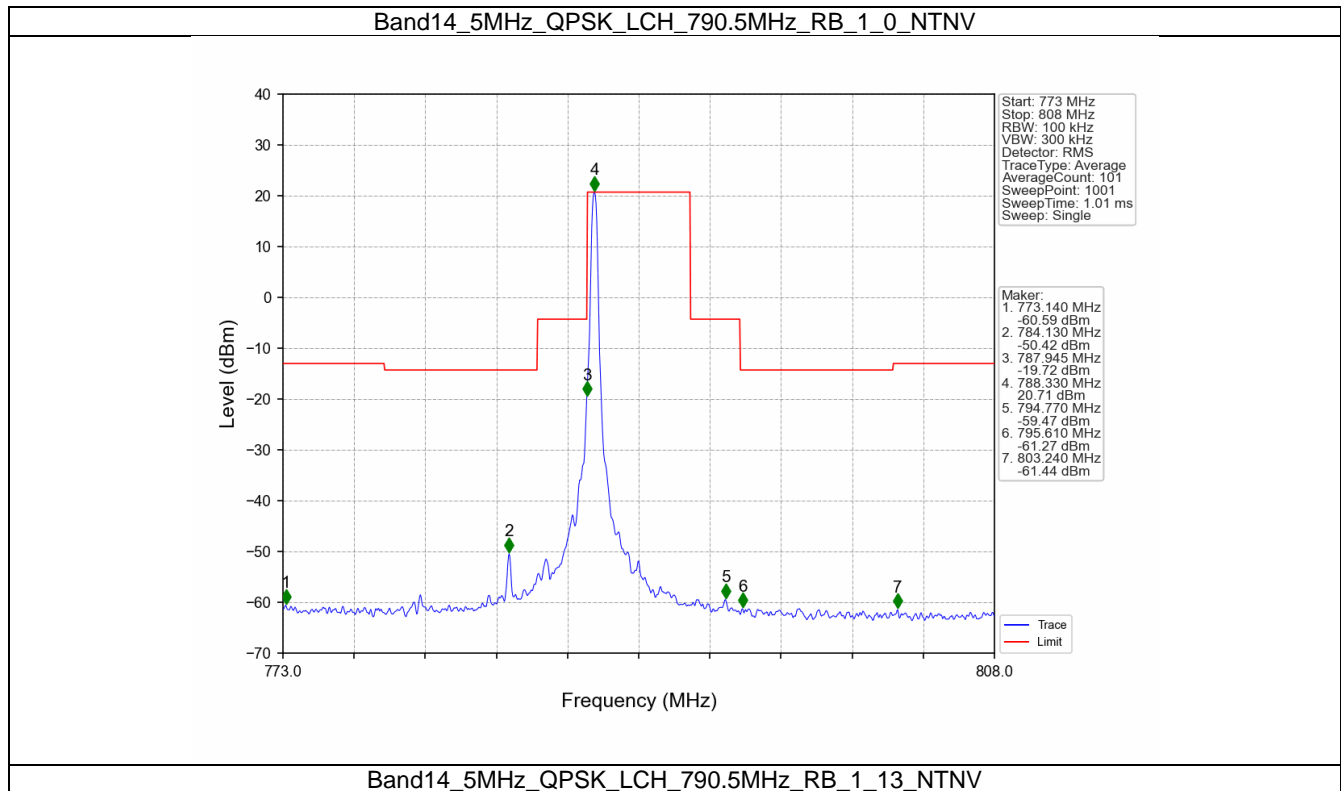
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### 7.1.2 Test Graph



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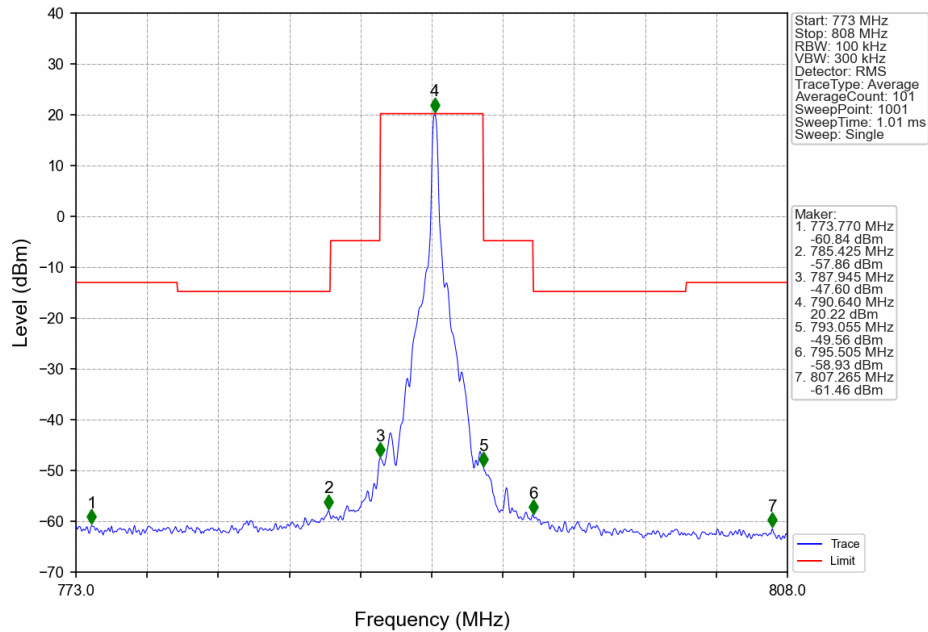
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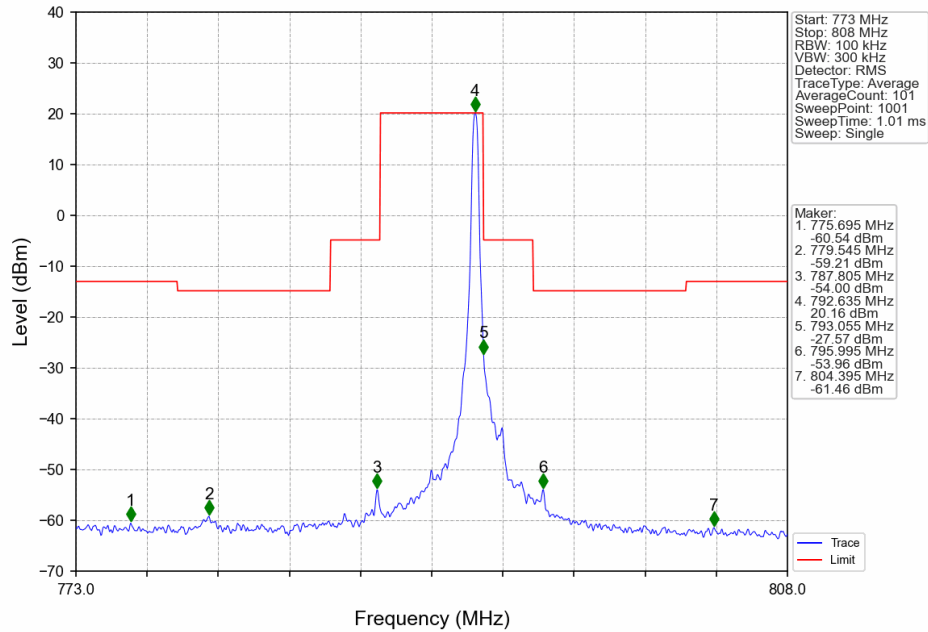


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Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_1\_24\_NTNV



Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_12\_0\_NTNV



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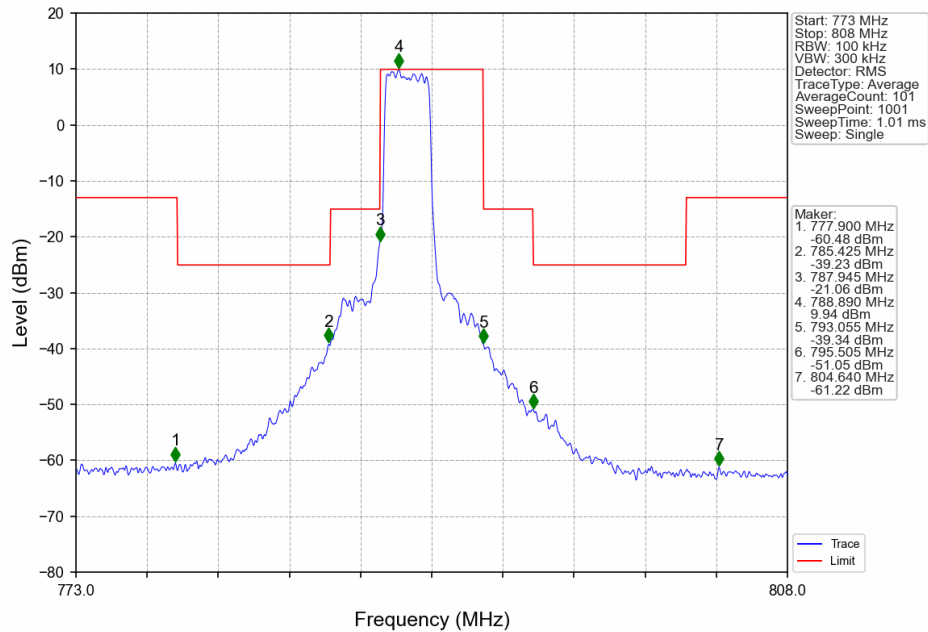
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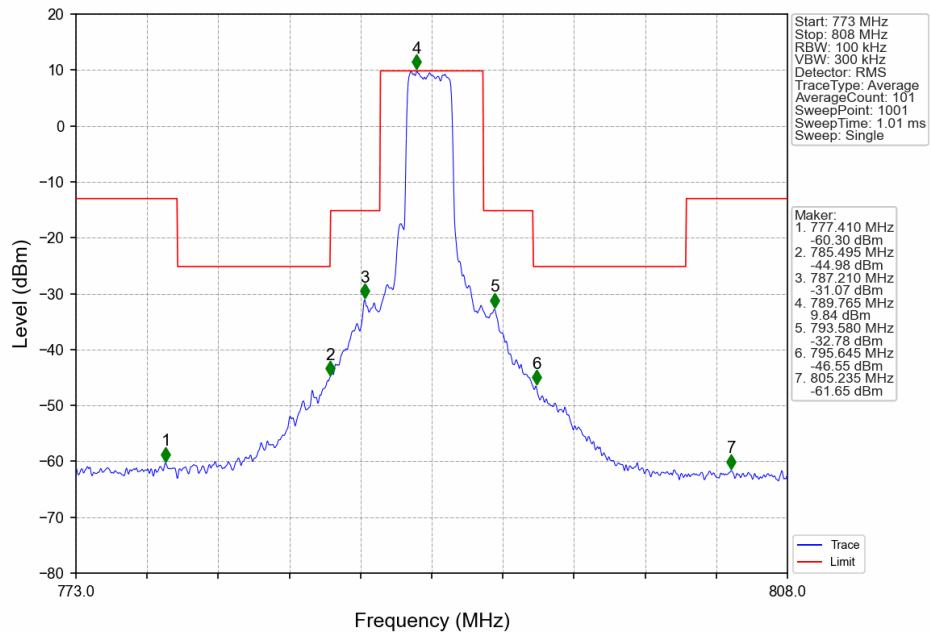
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Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_12\_6\_NTNV



Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_12\_13\_NTNV



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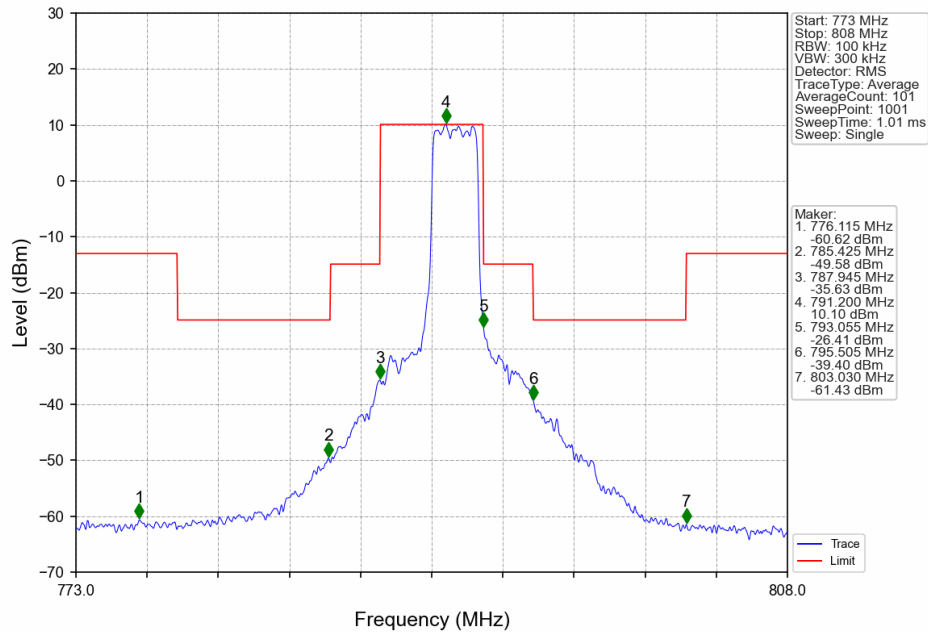
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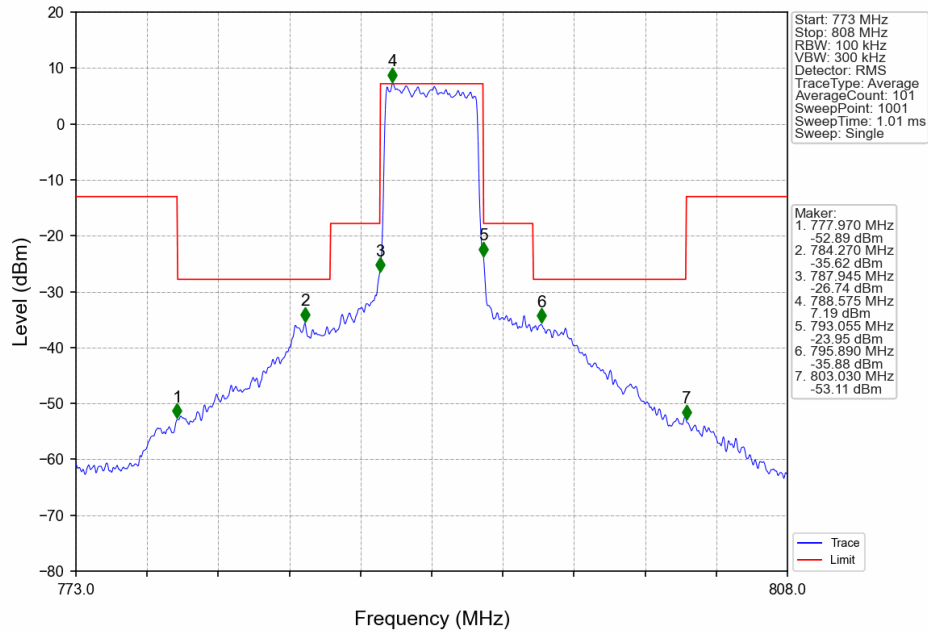
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Band14\_5MHz\_QPSK\_LCH\_790.5MHz\_RB\_25\_0\_NTNV



Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_1\_0\_NTNV



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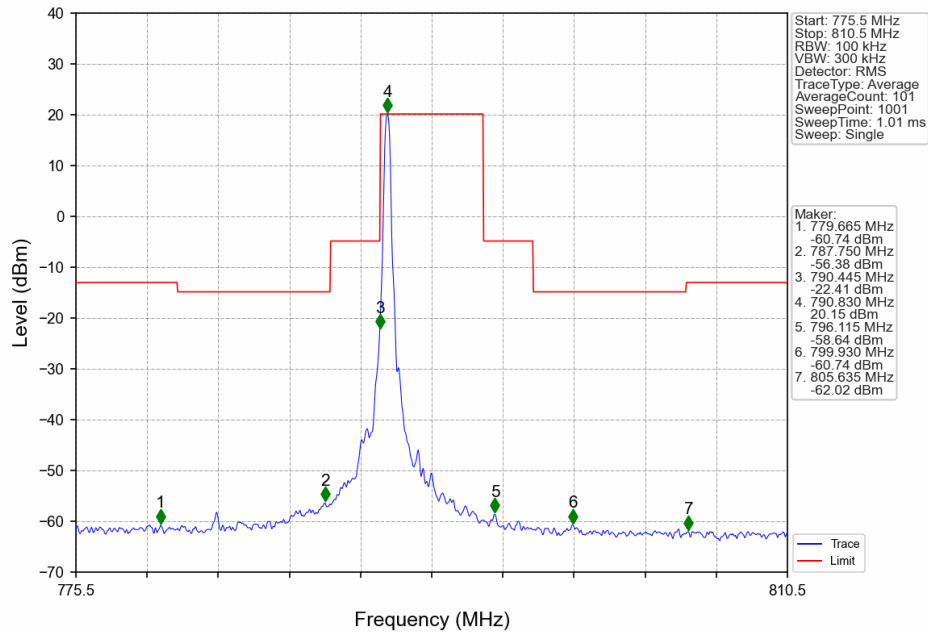
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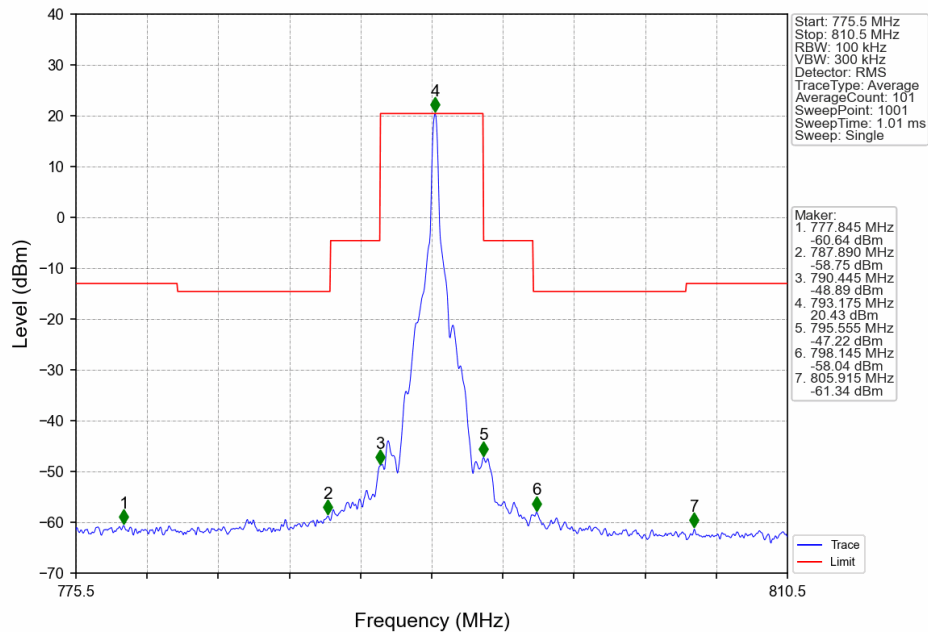
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### Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_1\_13\_NTNV



### Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_1\_24\_NTNV



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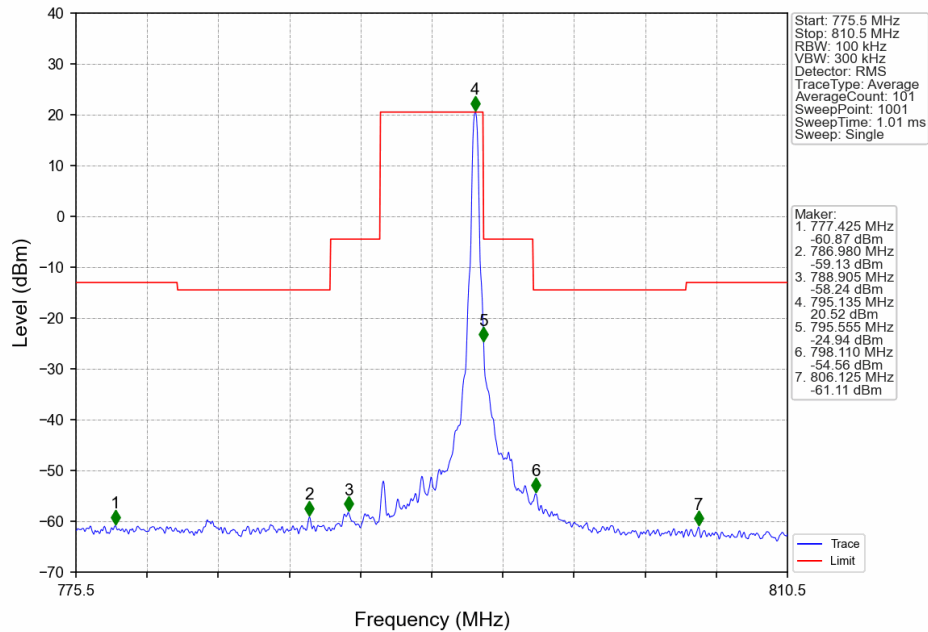
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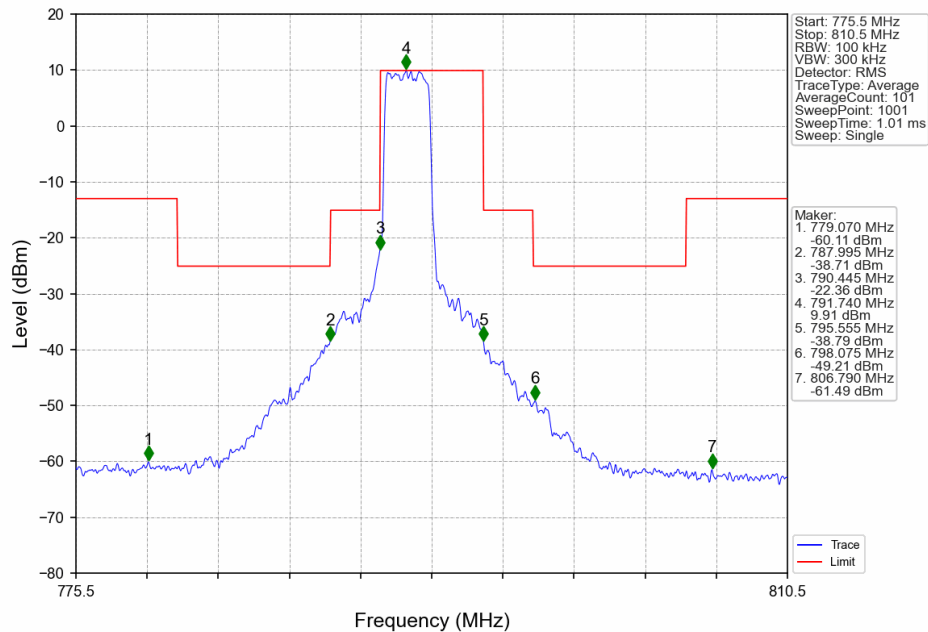
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### Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_12\_0\_NTNV



### Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_12\_6\_NTNV



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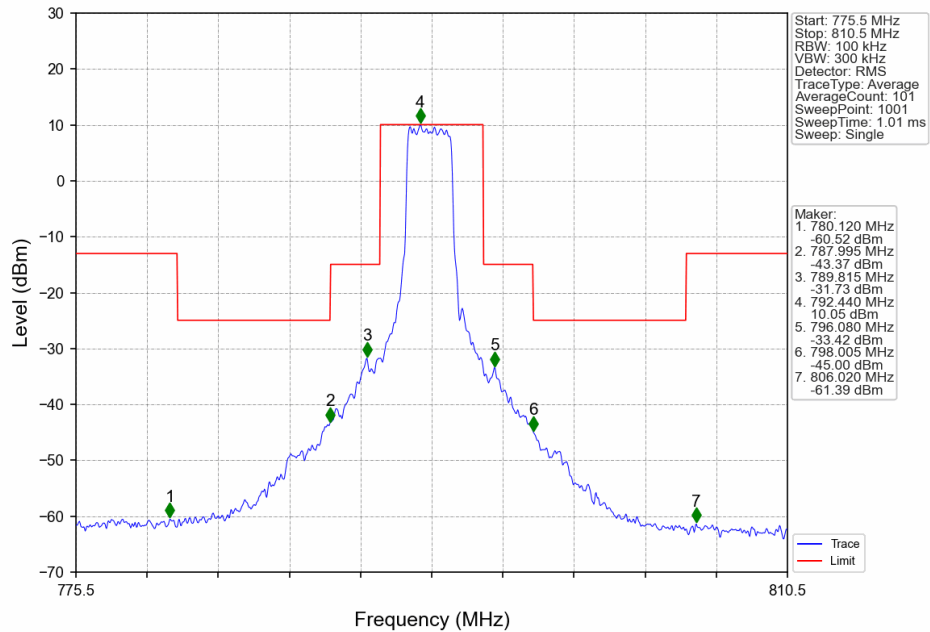
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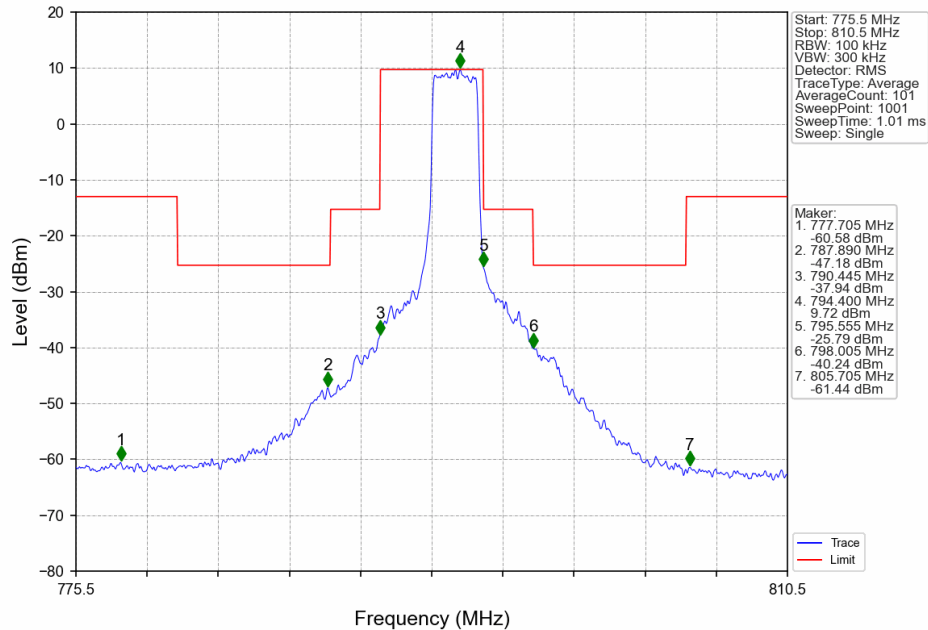
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Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_12\_13\_NTNV



Band14\_5MHz\_QPSK\_MCH\_793MHz\_RB\_25\_0\_NTNV



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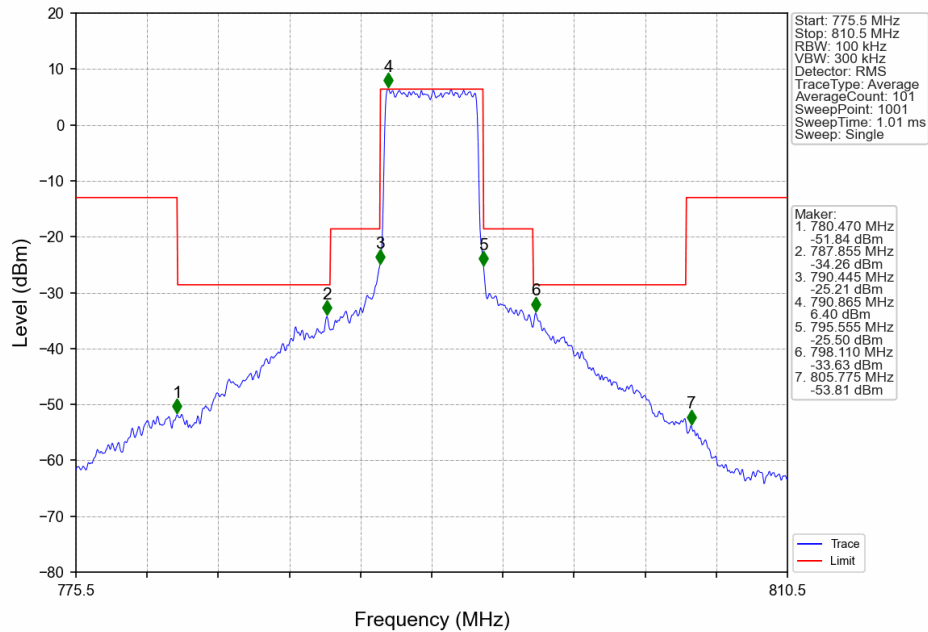
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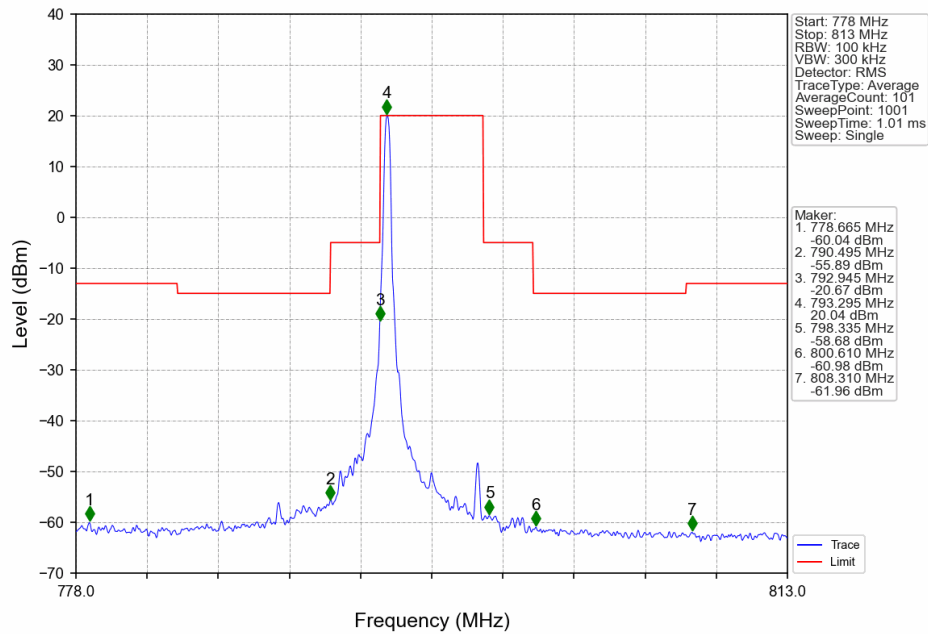
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_0\_NTNV



Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_13\_NTNV



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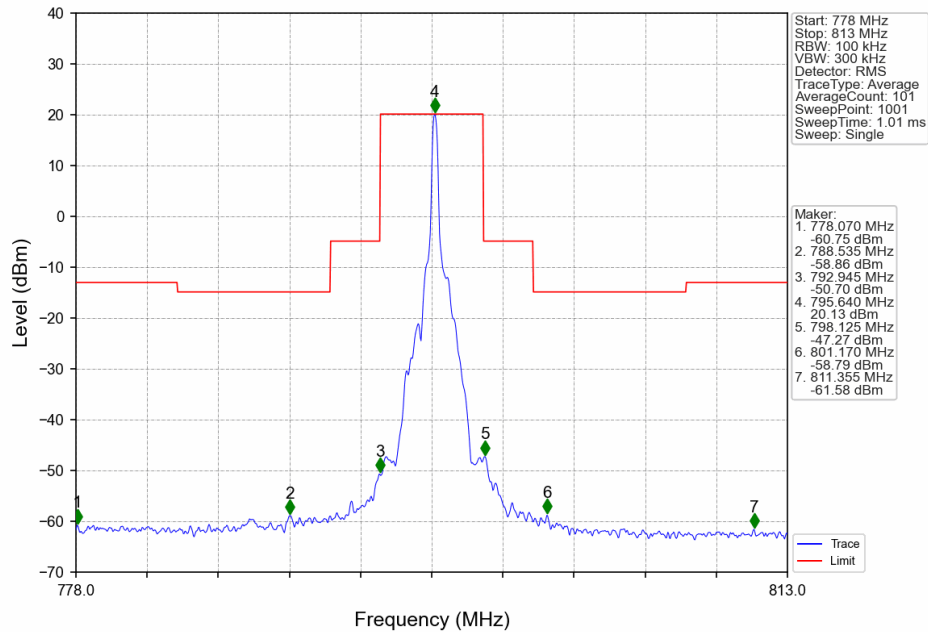
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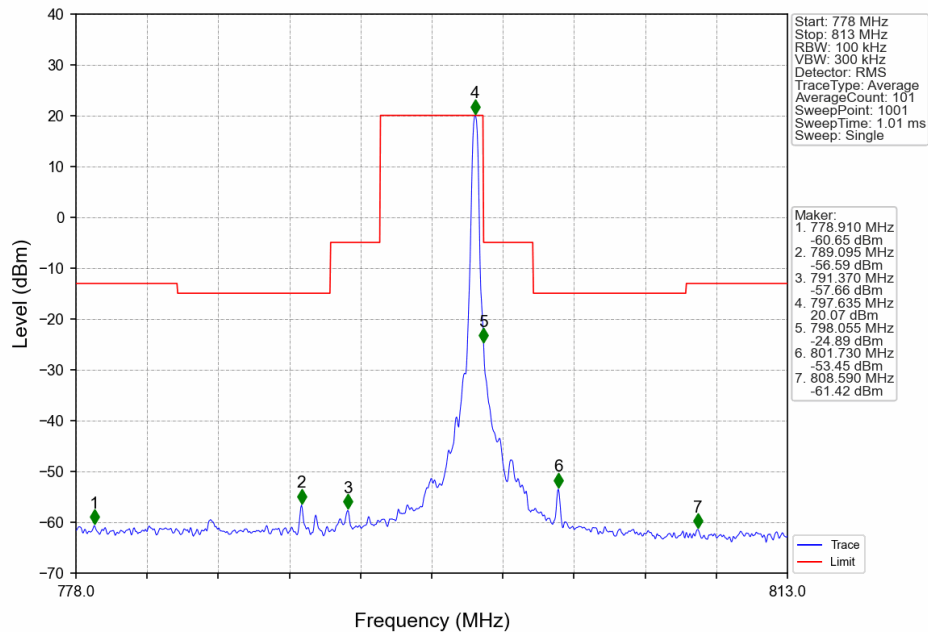
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_1\_24\_NTNV



Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_12\_0\_NTNV



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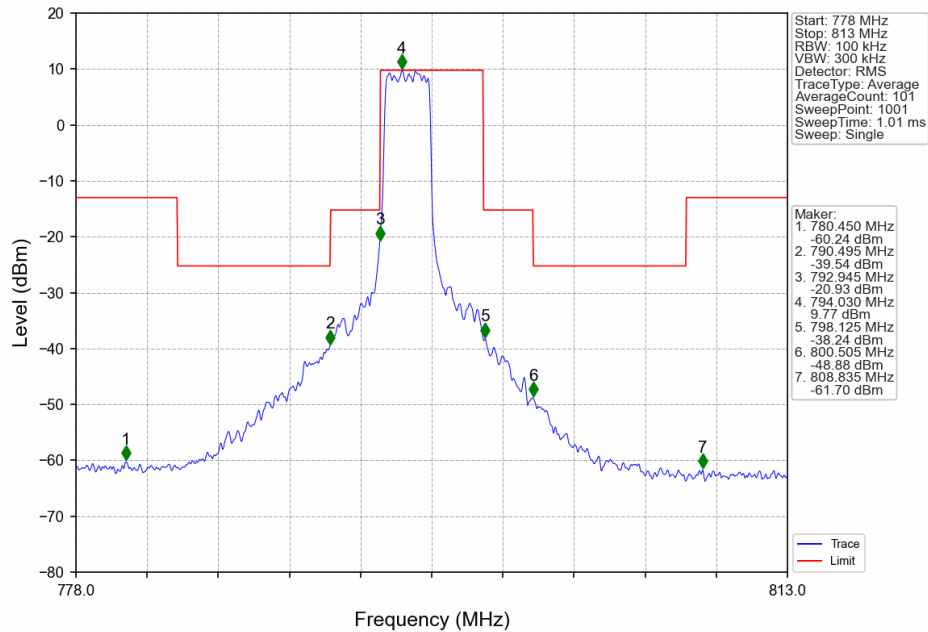
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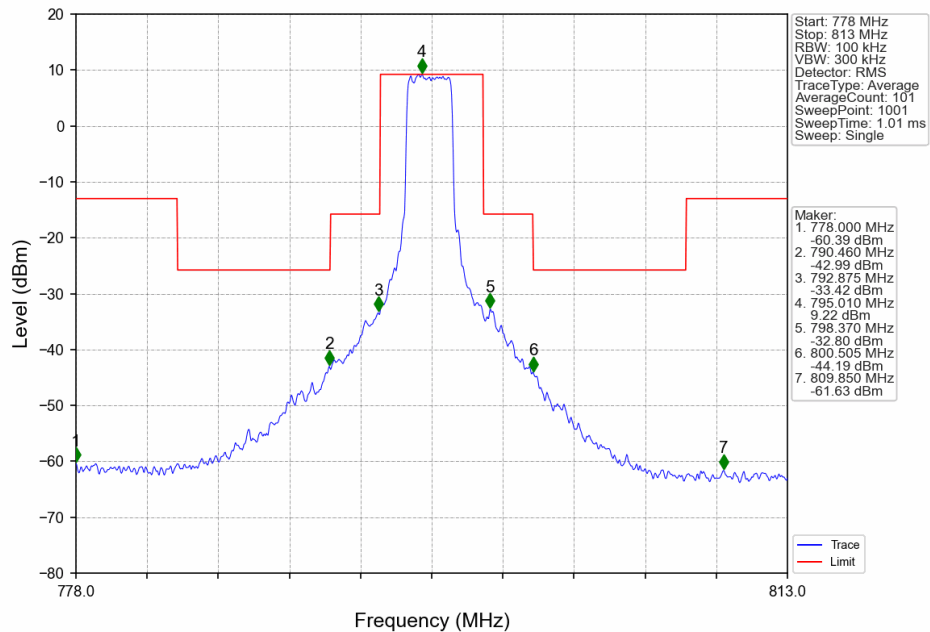
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Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_12\_6\_NTNV



Band14\_5MHz\_QPSK\_HCH\_795.5MHz\_RB\_12\_13\_NTNV



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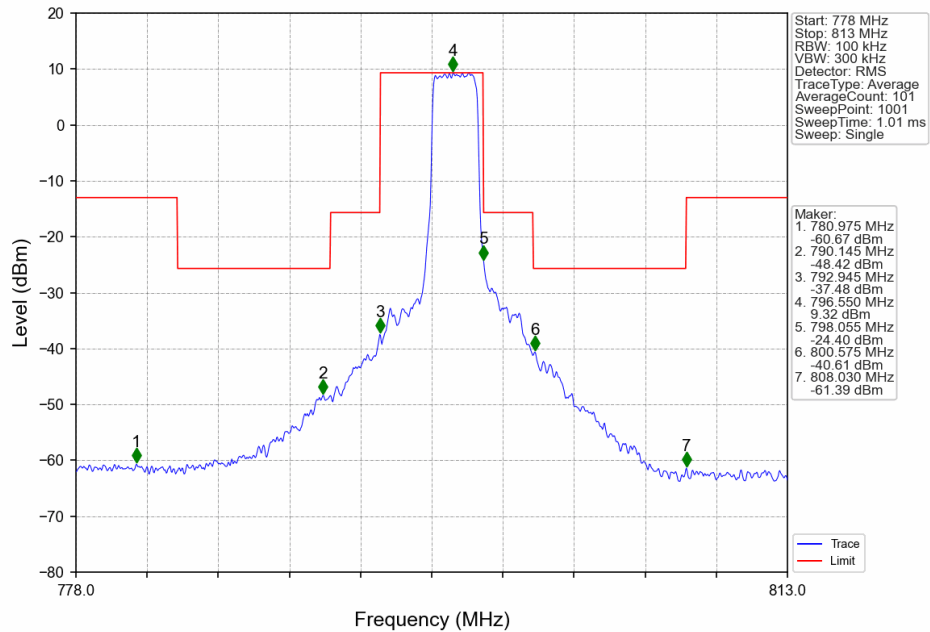
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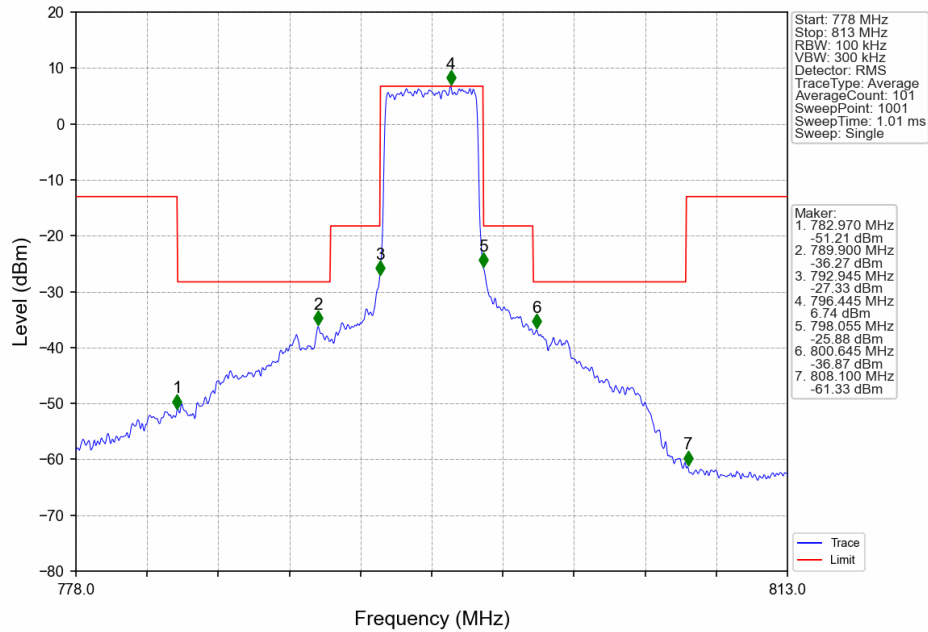
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## 7.2 B14\_10MHz

### 7.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	793	1	0	758	768	-53.49	-13	Pass
				768	783	-59.54	-14.93	Pass
				783	787.95	-34.51	-4.93	Pass
				787.95	798.05	20.07	20.07	Pass
				798.05	803	-58.33	-4.93	Pass
				803	818	-63.01	-14.93	Pass
				818	828	-63.26	-13	Pass
				758	768	-53.63	-13	Pass
			25	768	783	-62.43	-14.94	Pass
				783	787.95	-59.65	-4.94	Pass
				787.95	798.05	20.06	20.06	Pass
				798.05	803	-59.30	-4.94	Pass
				803	818	-62.93	-14.94	Pass
				818	828	-63.42	-13	Pass
			49	758	768	-53.66	-13	Pass
				768	783	-62.66	-14.87	Pass
				783	787.95	-61.85	-4.87	Pass
				787.95	798.05	20.13	20.13	Pass
				798.05	803	-36.62	-4.87	Pass
				803	818	-61.54	-14.87	Pass
				818	828	-63.18	-13	Pass
		25	0	758	768	-52.98	-13	Pass
				768	783	-43.49	-28.32	Pass
				783	787.95	-28.87	-18.32	Pass
				787.95	798.05	6.68	6.68	Pass
				798.05	803	-39.79	-18.32	Pass
				803	818	-53.36	-28.32	Pass
				818	828	-63.21	-13	Pass
			13	758	768	-53.42	-13	Pass
				768	783	-47.54	-28.31	Pass
				783	787.95	-34.47	-18.31	Pass
				787.95	798.05	6.69	6.69	Pass
				798.05	803	-34.22	-18.31	Pass
				803	818	-48.11	-28.31	Pass
				818	828	-63.51	-13	Pass
			25	758	768	-53.51	-13	Pass
				768	783	-52.20	-28.87	Pass
				783	787.95	-40.21	-18.87	Pass
				787.95	798.05	6.13	6.13	Pass



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				798.05	803	-29.70	-18.87	Pass
				803	818	-44.12	-28.87	Pass
				818	828	-62.83	-13	Pass
		50	0	758	768	-53.16	-13	Pass
				768	783	-39.12	-31.05	Pass
				783	787.95	-30.68	-21.05	Pass
				787.95	798.05	3.95	3.95	Pass
				798.05	803	-31.41	-21.05	Pass
				803	818	-38.45	-31.05	Pass
				818	828	-63.39	-13	Pass



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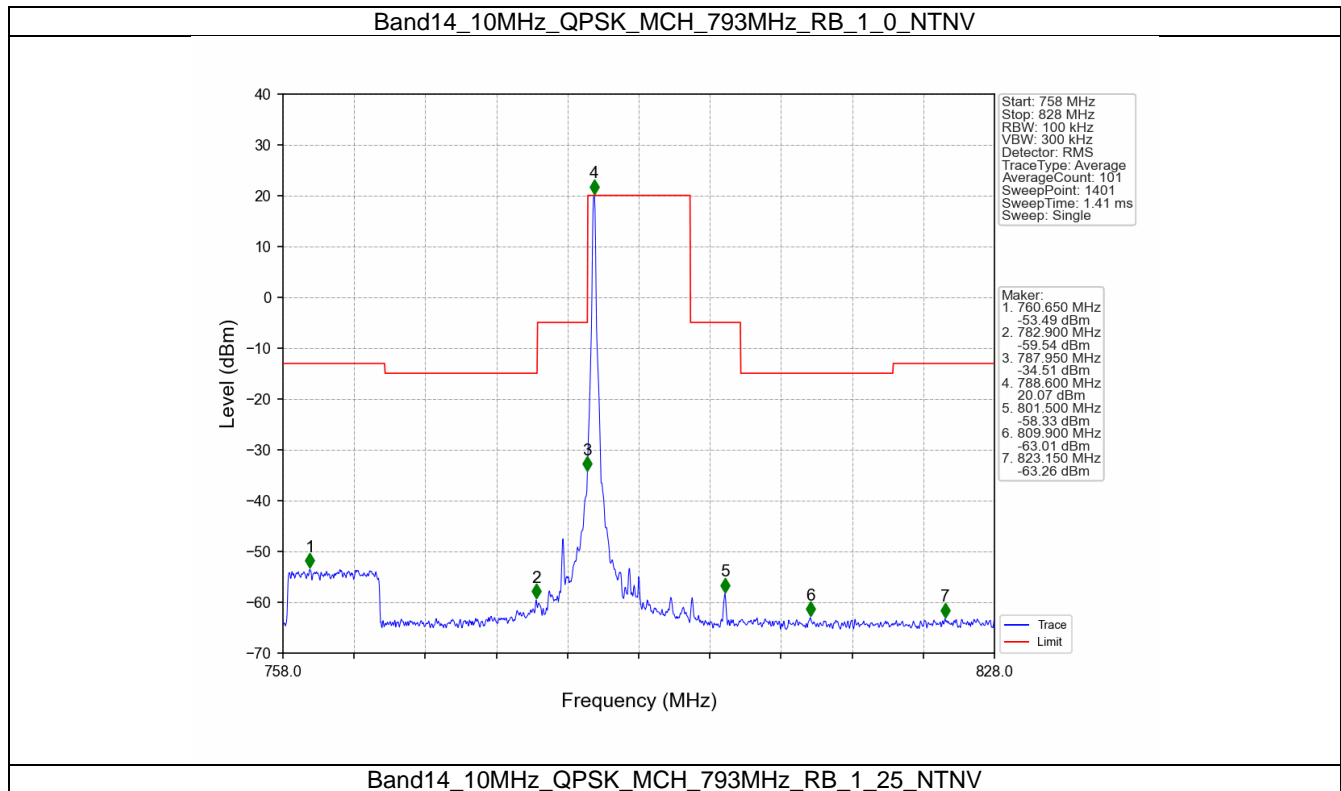
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### 7.2.2 Test Graph



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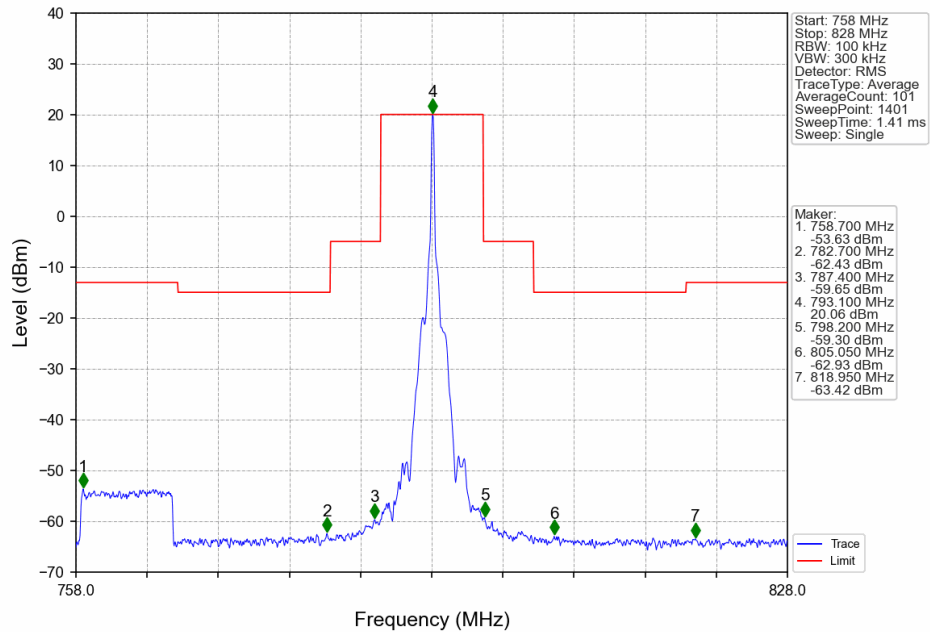
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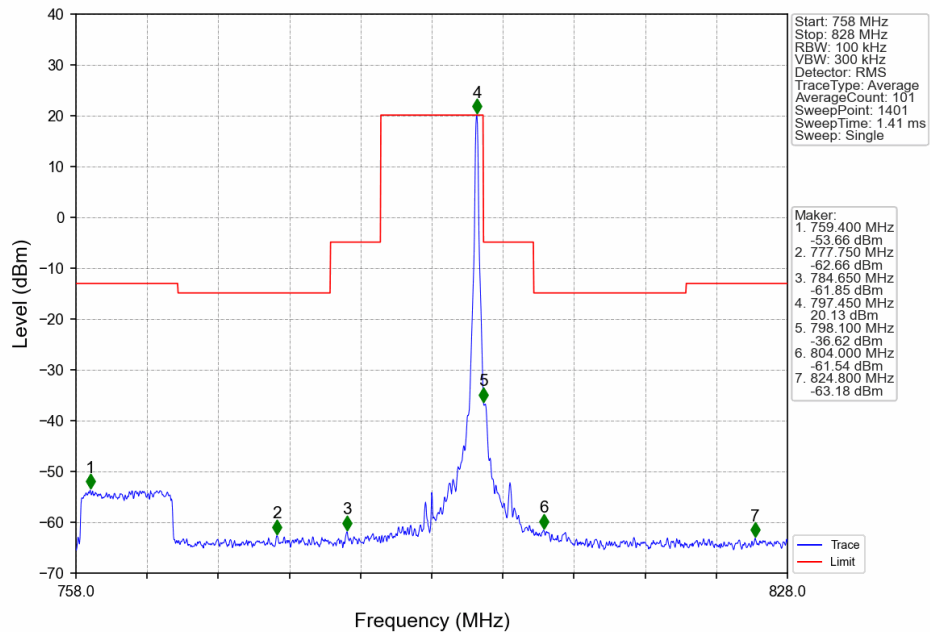
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Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_1\_49\_NTNV



Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_25\_0\_NTNV



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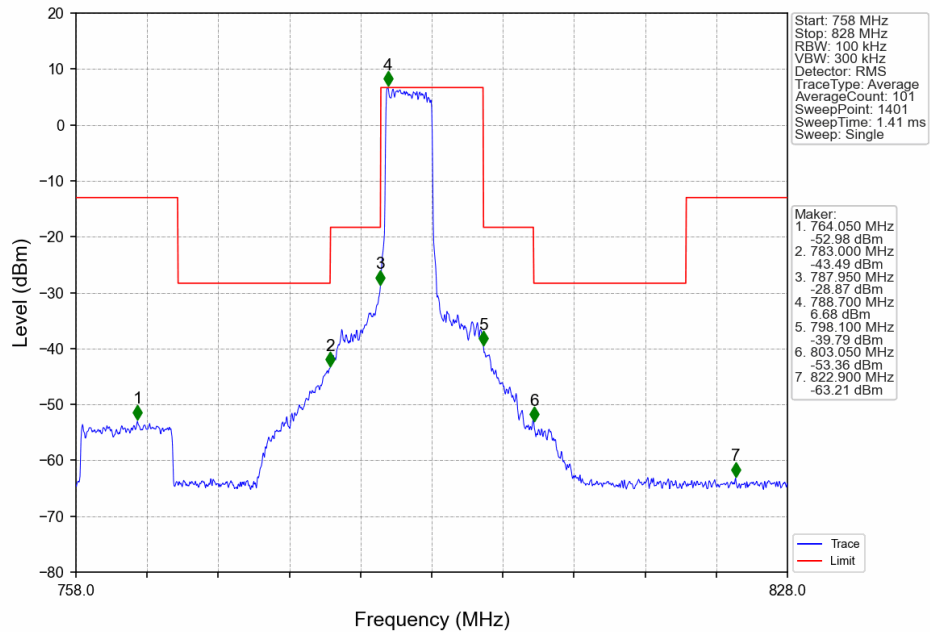
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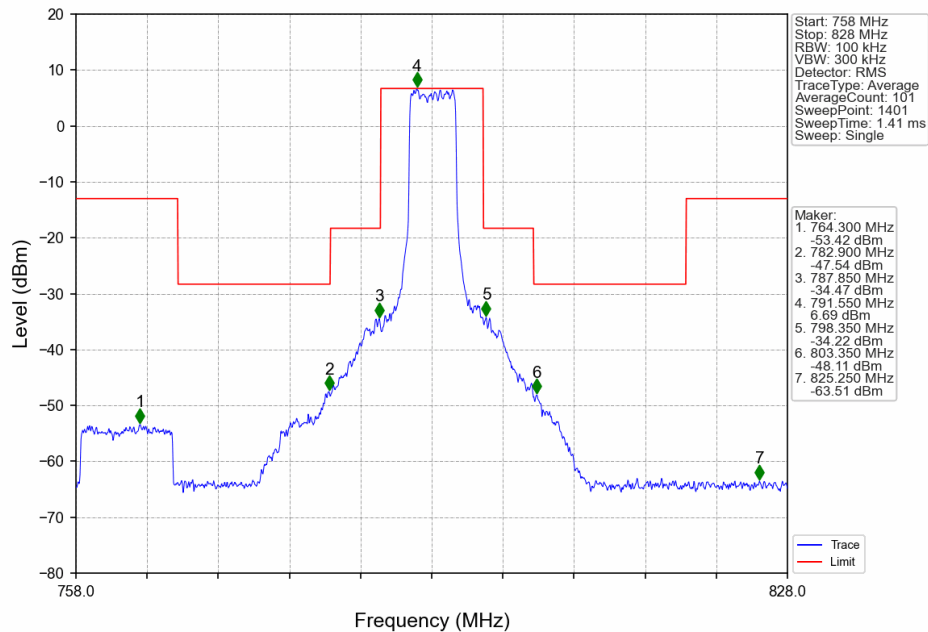


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### Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_25\_13\_NTNV



### Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_25\_25\_NTNV



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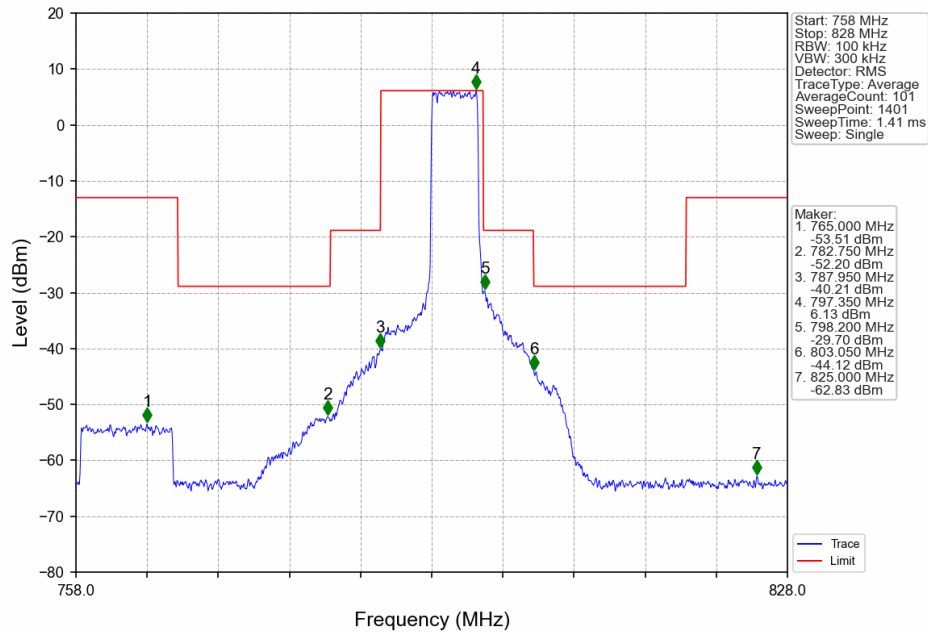
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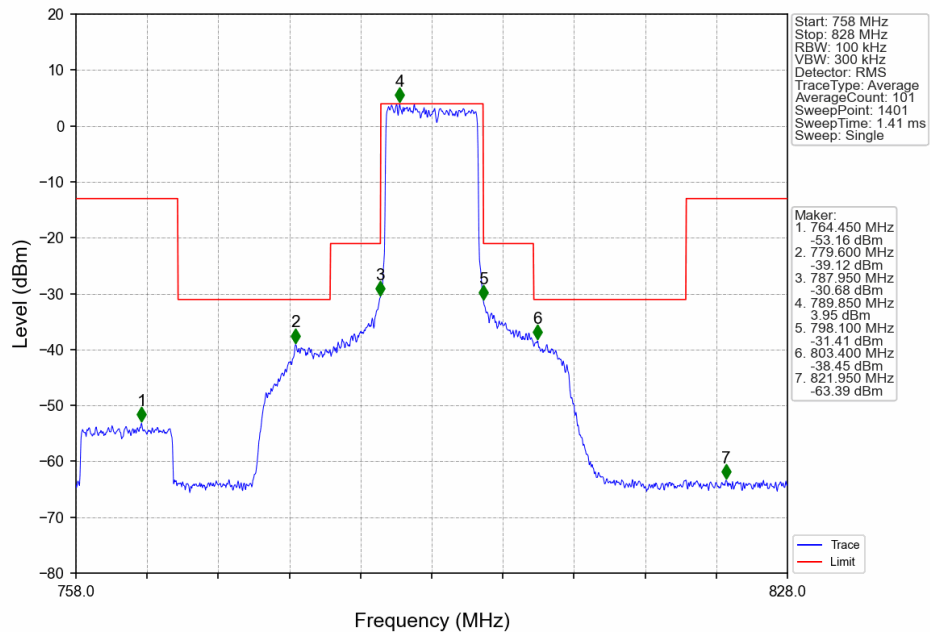
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Band14\_10MHz\_QPSK\_MCH\_793MHz\_RB\_50\_0\_NTNV



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