

## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200479504

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			10	52.22	5787.520	5725 to 5850	Pass
			30	52.22	5787.460	5725 to 5850	Pass
			40	52.22	5787.500	5725 to 5850	Pass
			50	52.22	5787.500	5725 to 5850	Pass
		5839.5	20	44.38	5839.500	5725 to 5850	Pass
				52.22	5839.500	5725 to 5850	Pass
				60.05	5839.520	5725 to 5850	Pass
			-30	52.22	5839.500	5725 to 5850	Pass
			-20	52.22	5839.500	5725 to 5850	Pass
			-10	52.22	5839.520	5725 to 5850	Pass
			0	52.22	5839.500	5725 to 5850	Pass
			10	52.22	5839.500	5725 to 5850	Pass
			30	52.22	5839.500	5725 to 5850	Pass
			40	52.22	5839.520	5725 to 5850	Pass
			50	52.22	5839.500	5725 to 5850	Pass
40M	MIMO	5745.5	20	44.38	5745.540	5725 to 5850	Pass
				52.22	5745.460	5725 to 5850	Pass
				60.05	5745.580	5725 to 5850	Pass
			-30	52.22	5745.580	5725 to 5850	Pass
			-20	52.22	5745.500	5725 to 5850	Pass
			-10	52.22	5745.500	5725 to 5850	Pass
			0	52.22	5745.500	5725 to 5850	Pass
			10	52.22	5745.540	5725 to 5850	Pass
			30	52.22	5745.500	5725 to 5850	Pass
			40	52.22	5745.540	5725 to 5850	Pass
			50	52.22	5745.500	5725 to 5850	Pass
		5787.5	20	44.38	5787.380	5725 to 5850	Pass
				52.22	5787.340	5725 to 5850	Pass
				60.05	5787.460	5725 to 5850	Pass
			-30	52.22	5787.460	5725 to 5850	Pass
			-20	52.22	5787.380	5725 to 5850	Pass
			-10	52.22	5787.340	5725 to 5850	Pass
			0	52.22	5787.420	5725 to 5850	Pass
			10	52.22	5787.380	5725 to 5850	Pass
			30	52.22	5787.340	5725 to 5850	Pass
			40	52.22	5787.420	5725 to 5850	Pass
			50	52.22	5787.380	5725 to 5850	Pass
		5829.5	20	44.38	5829.460	5725 to 5850	Pass
				52.22	5829.500	5725 to 5850	Pass
				60.05	5829.500	5725 to 5850	Pass



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Shenzhen Branch (MIMO) Laboratory

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			-30	52.22	5829.500	5725 to 5850	Pass
			-20	52.22	5829.500	5725 to 5850	Pass
			-10	52.22	5829.420	5725 to 5850	Pass
			0	52.22	5829.420	5725 to 5850	Pass
			10	52.22	5829.460	5725 to 5850	Pass
			30	52.22	5829.460	5725 to 5850	Pass
			40	52.22	5829.500	5725 to 5850	Pass
			50	52.22	5829.420	5725 to 5850	Pass
60M	MIMO	5755.5	20	44.38	5755.440	5725 to 5850	Pass
				52.22	5755.500	5725 to 5850	Pass
				60.05	5755.560	5725 to 5850	Pass
			-30	52.22	5755.500	5725 to 5850	Pass
			-20	52.22	5755.560	5725 to 5850	Pass
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			10	52.22	5755.680	5725 to 5850	Pass
			30	52.22	5755.380	5725 to 5850	Pass
			40	52.22	5755.440	5725 to 5850	Pass
			50	52.22	5755.560	5725 to 5850	Pass
		5787.5	20	44.38	5787.440	5725 to 5850	Pass
				52.22	5787.260	5725 to 5850	Pass
				60.05	5787.560	5725 to 5850	Pass
			-30	52.22	5787.200	5725 to 5850	Pass
			-20	52.22	5787.440	5725 to 5850	Pass
			-10	52.22	5787.440	5725 to 5850	Pass
			0	52.22	5787.260	5725 to 5850	Pass
			10	52.22	5787.260	5725 to 5850	Pass
			30	52.22	5787.320	5725 to 5850	Pass
			40	52.22	5787.380	5725 to 5850	Pass
			50	52.22	5787.440	5725 to 5850	Pass
		5819.5	20	44.38	5819.440	5725 to 5850	Pass
				52.22	5819.380	5725 to 5850	Pass
				60.05	5819.440	5725 to 5850	Pass
			-30	52.22	5819.440	5725 to 5850	Pass
			-20	52.22	5819.440	5725 to 5850	Pass
			-10	52.22	5819.380	5725 to 5850	Pass
			0	52.22	5819.440	5725 to 5850	Pass
			10	52.22	5819.380	5725 to 5850	Pass
			30	52.22	5819.440	5725 to 5850	Pass
			40	52.22	5819.440	5725 to 5850	Pass



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			50	52.22	5819.320	5725 to 5850	Pass
80M	MIMO	5765.5	20	44.38	5765.050	5725 to 5850	Pass
				52.22	5765.200	5725 to 5850	Pass
				60.05	5765.050	5725 to 5850	Pass
			-30	52.22	5765.200	5725 to 5850	Pass
			-20	52.22	5765.125	5725 to 5850	Pass
			-10	52.22	5765.125	5725 to 5850	Pass
			0	52.22	5765.200	5725 to 5850	Pass
			10	52.22	5765.050	5725 to 5850	Pass
			30	52.22	5765.200	5725 to 5850	Pass
			40	52.22	5765.125	5725 to 5850	Pass
			50	52.22	5765.350	5725 to 5850	Pass
		5787.5	20	44.38	5786.900	5725 to 5850	Pass
				52.22	5786.750	5725 to 5850	Pass
				60.05	5786.825	5725 to 5850	Pass
			-30	52.22	5786.975	5725 to 5850	Pass
			-20	52.22	5786.975	5725 to 5850	Pass
			-10	52.22	5786.900	5725 to 5850	Pass
			0	52.22	5786.900	5725 to 5850	Pass
			10	52.22	5786.900	5725 to 5850	Pass
			30	52.22	5786.975	5725 to 5850	Pass
			40	52.22	5786.900	5725 to 5850	Pass
			50	52.22	5786.825	5725 to 5850	Pass
		5809.5	20	44.38	5808.975	5725 to 5850	Pass
				52.22	5808.900	5725 to 5850	Pass
				60.05	5809.125	5725 to 5850	Pass
			-30	52.22	5808.975	5725 to 5850	Pass
			-20	52.22	5808.825	5725 to 5850	Pass
			-10	52.22	5808.975	5725 to 5850	Pass
			0	52.22	5808.900	5725 to 5850	Pass
			10	52.22	5808.900	5725 to 5850	Pass
			30	52.22	5809.050	5725 to 5850	Pass
			40	52.22	5808.900	5725 to 5850	Pass
			50	52.22	5808.900	5725 to 5850	Pass



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For ANT2&ANT3:

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant2

Ant2							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	5728.5	100.000	100.000	100.00	0.00	0.00
		5786.5	100.000	100.000	100.00	0.00	0.00
		5846.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	5727.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5847.2	100.000	100.000	100.00	0.00	0.00
5M	MIMO	5732.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5842.5	100.000	100.000	100.00	0.00	0.00
10M	MIMO	5730.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5844.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	5735.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5839.5	100.000	100.000	100.00	0.00	0.00
40M	MIMO	5745.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5829.5	100.000	100.000	100.00	0.00	0.00
60M	MIMO	5755.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5819.5	100.000	100.000	100.00	0.00	0.00
80M	MIMO	5765.5	100.000	100.000	100.00	0.00	0.00
		5787.5	100.000	100.000	100.00	0.00	0.00
		5809.5	100.000	100.000	100.00	0.00	0.00



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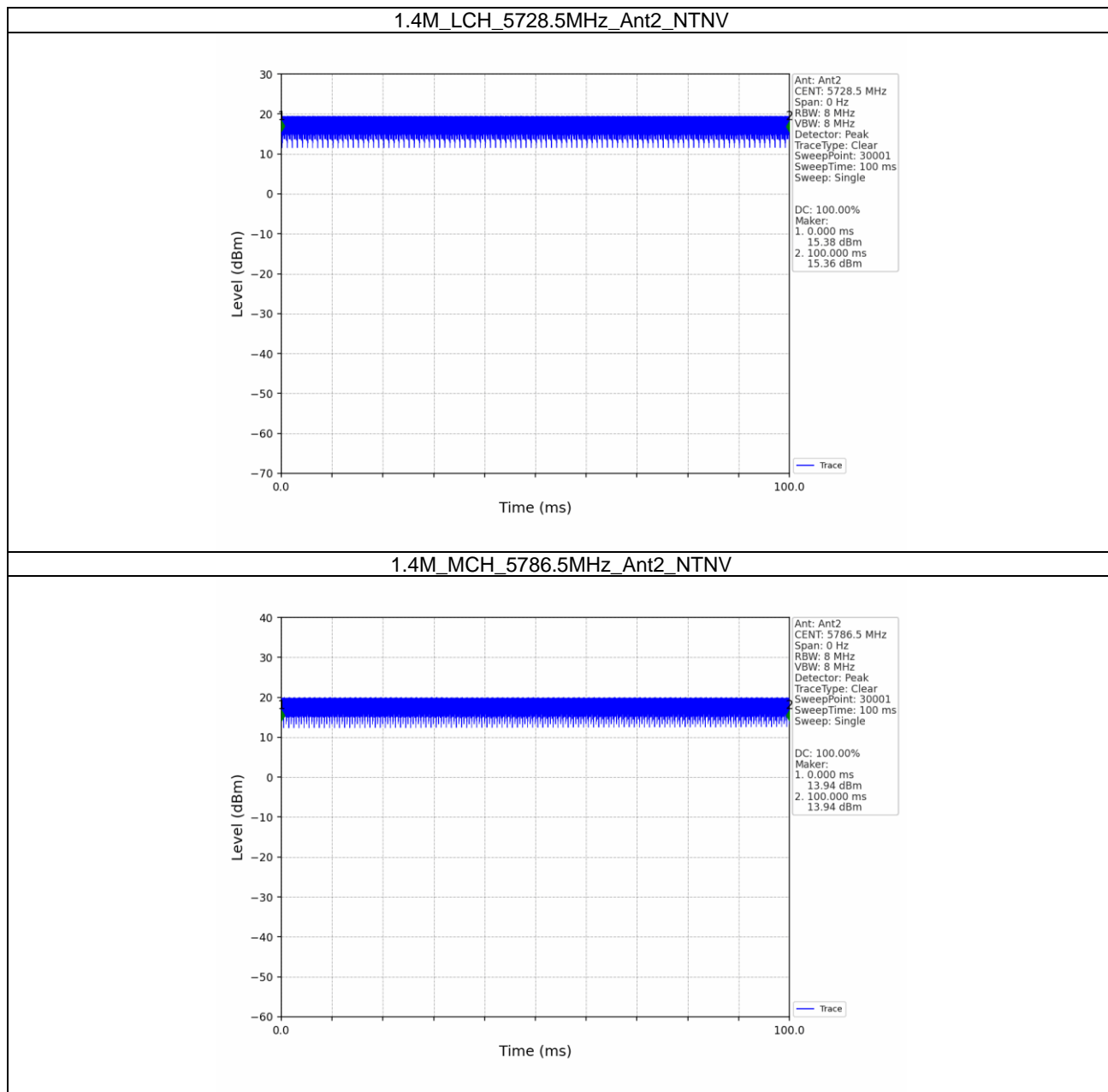
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## 1.2 Test Graph

### 1.2.1 Ant2



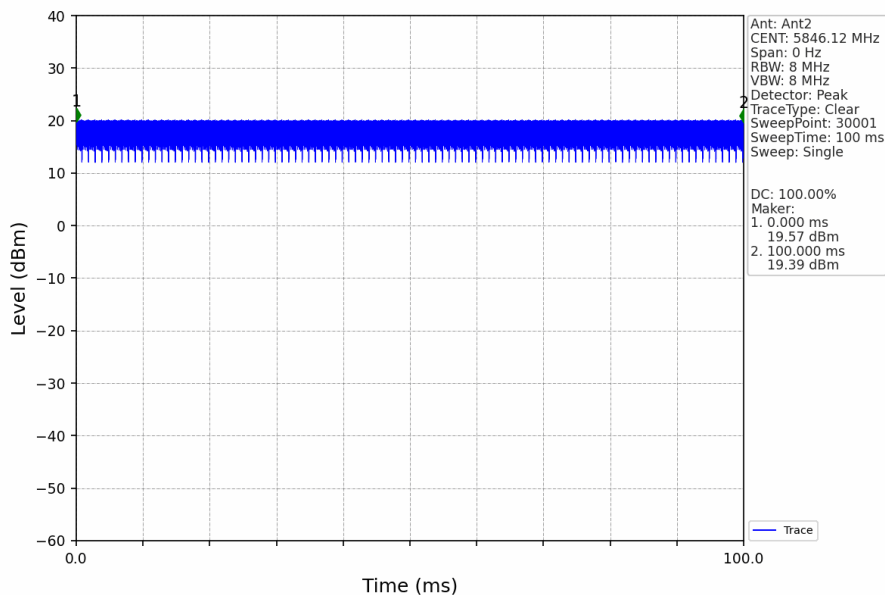
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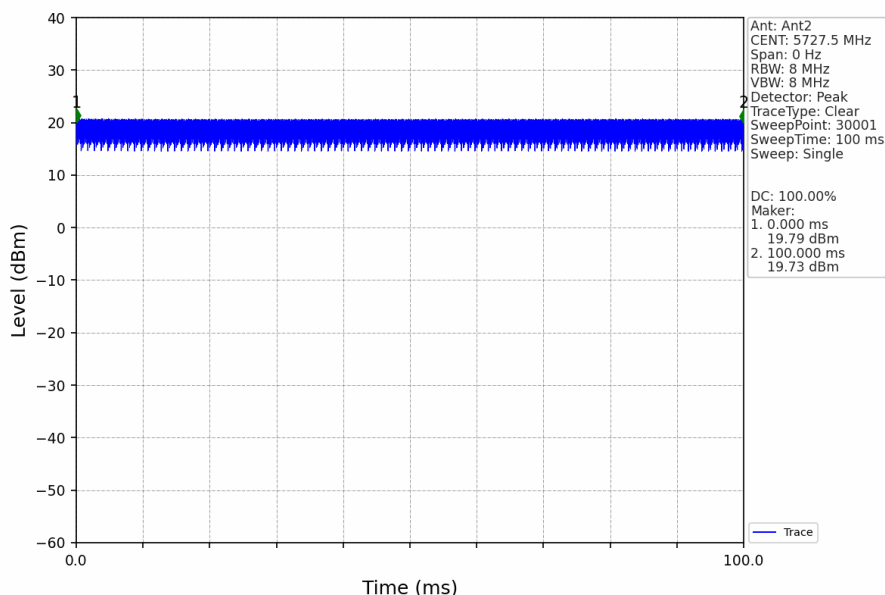
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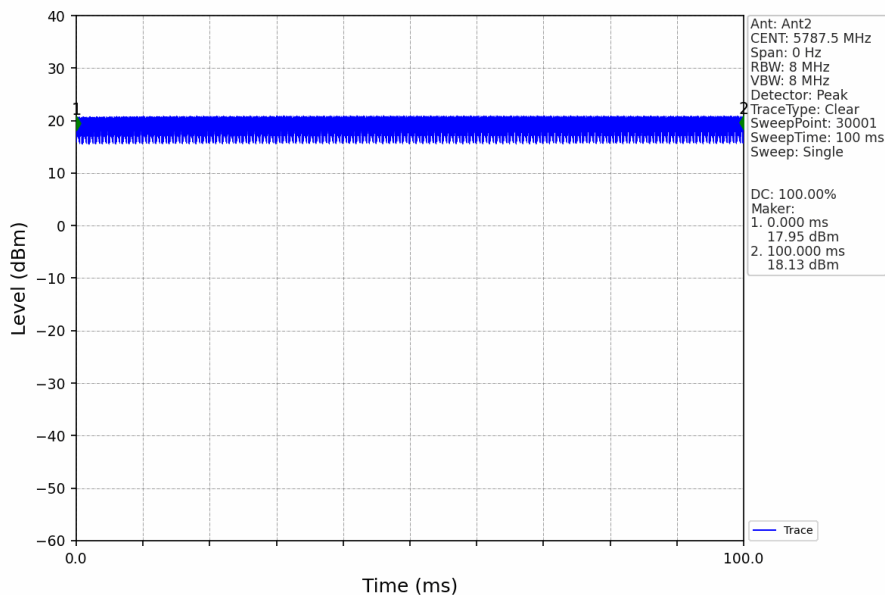
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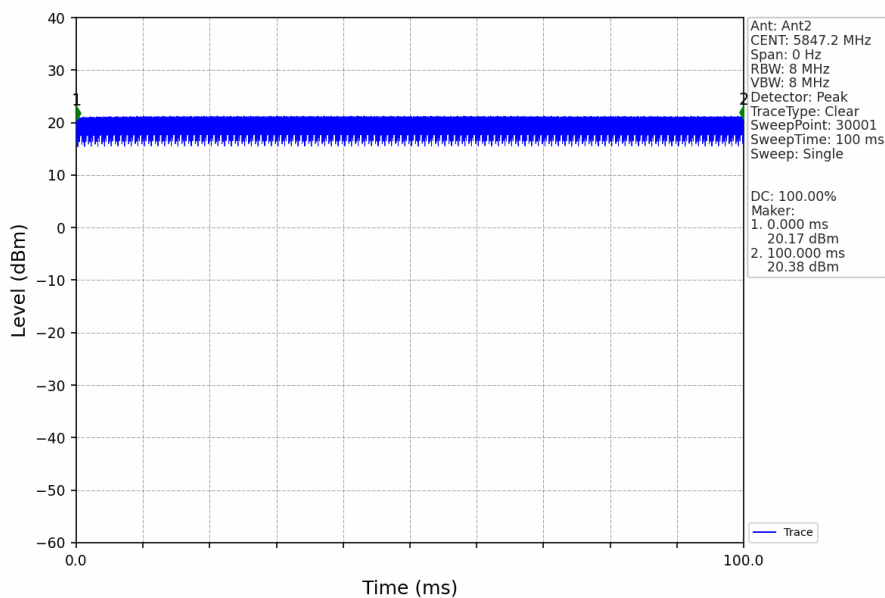
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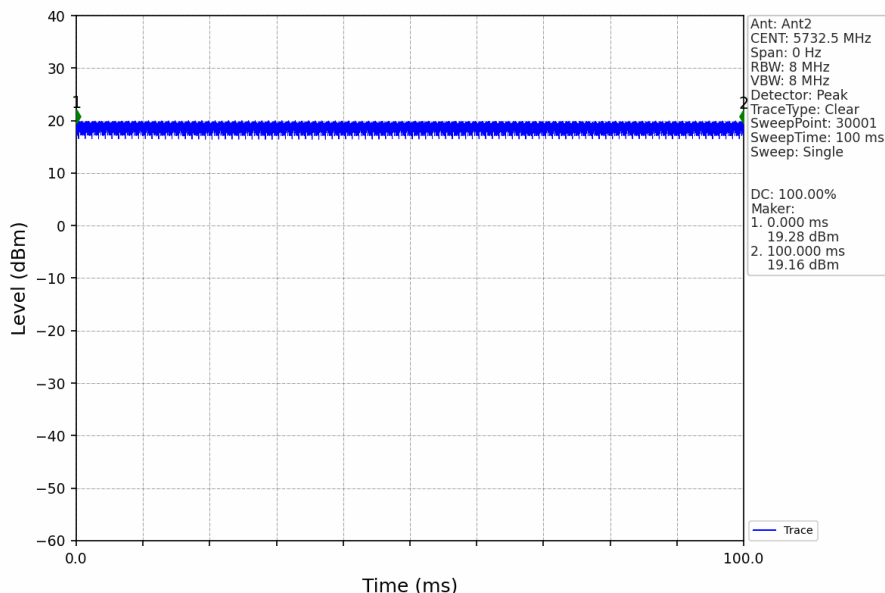
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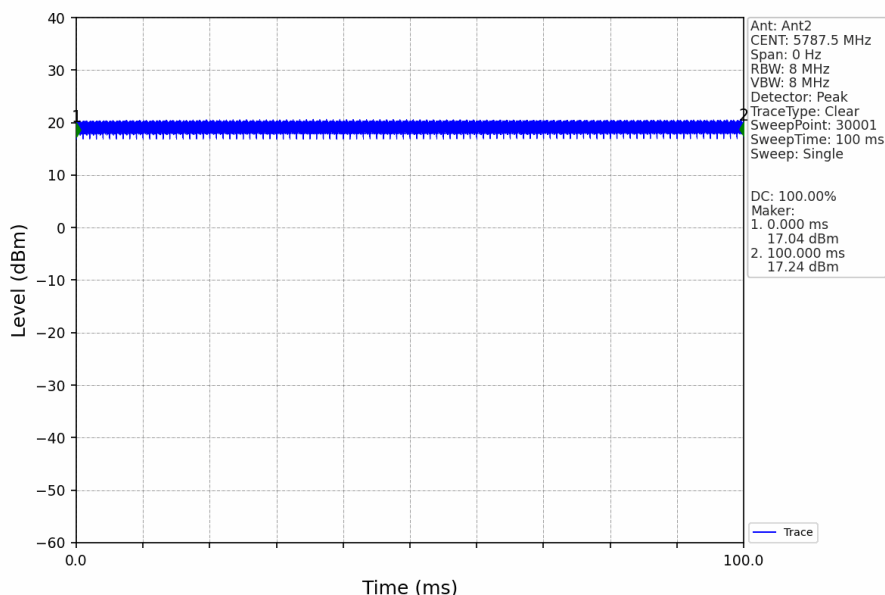
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5M\_LCH\_5732.5MHz\_Ant2\_NTNV

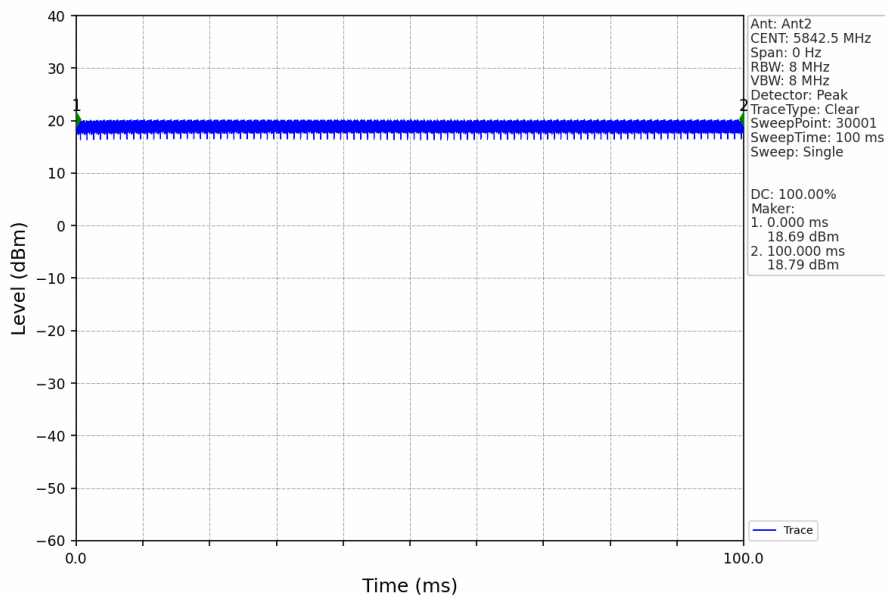


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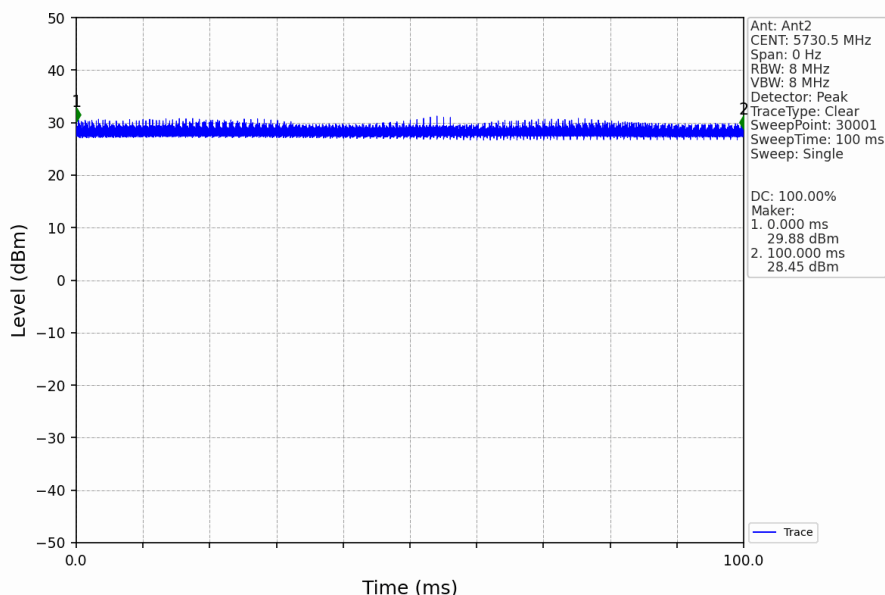




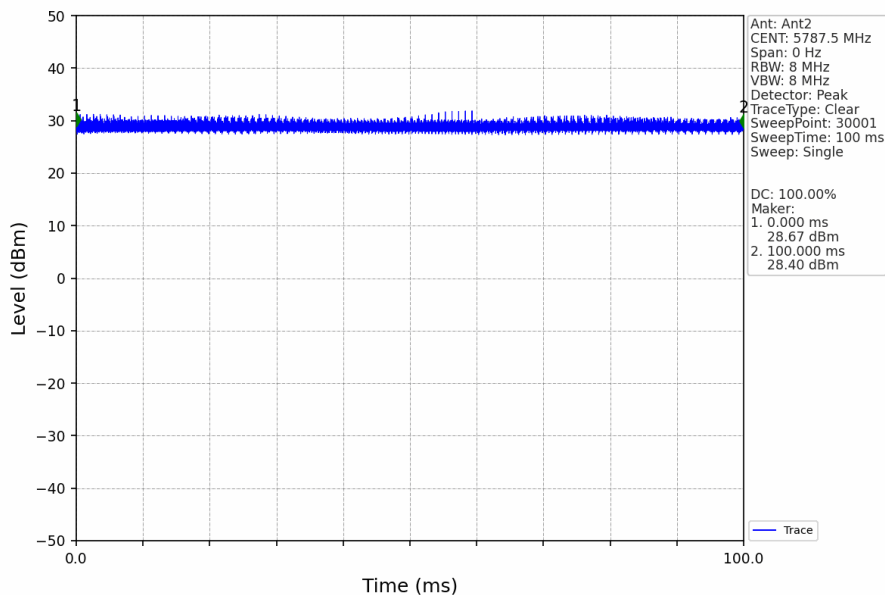
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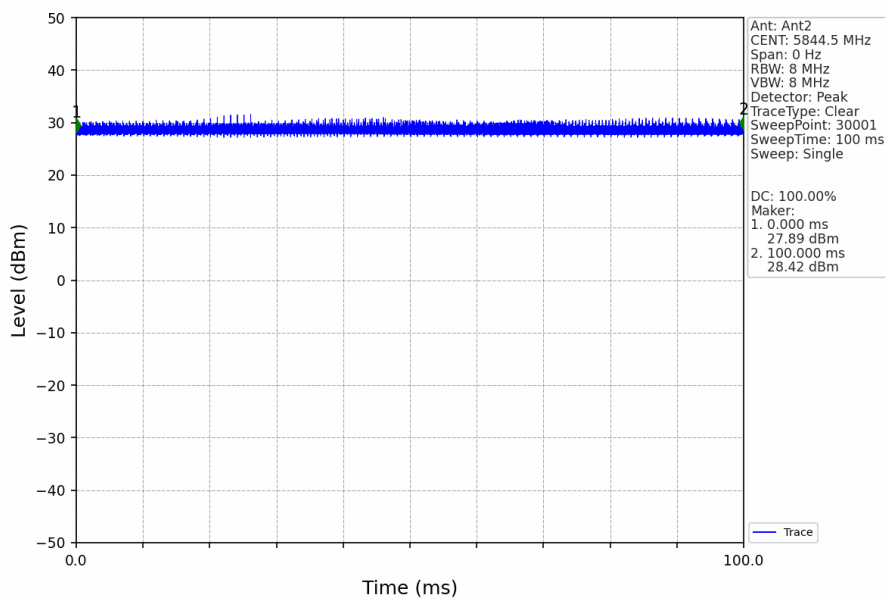
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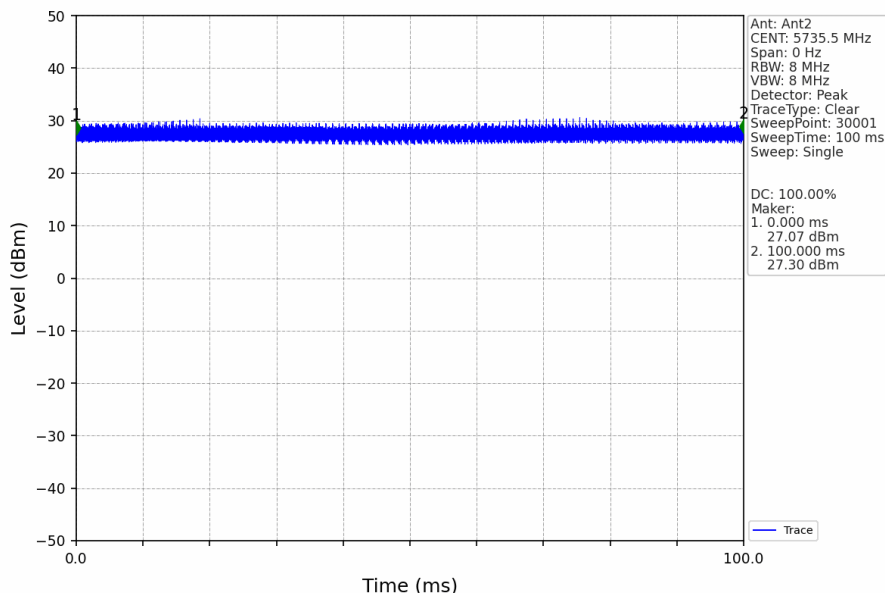
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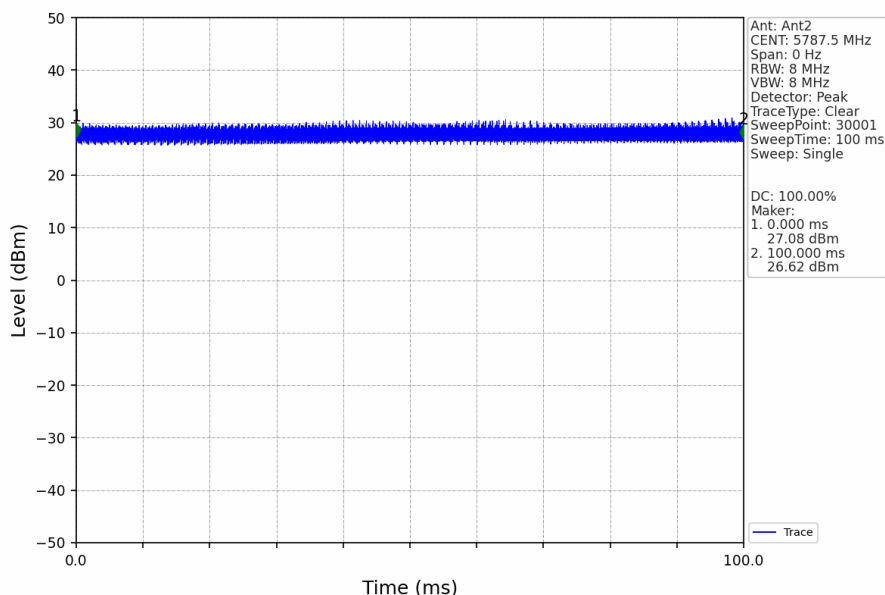
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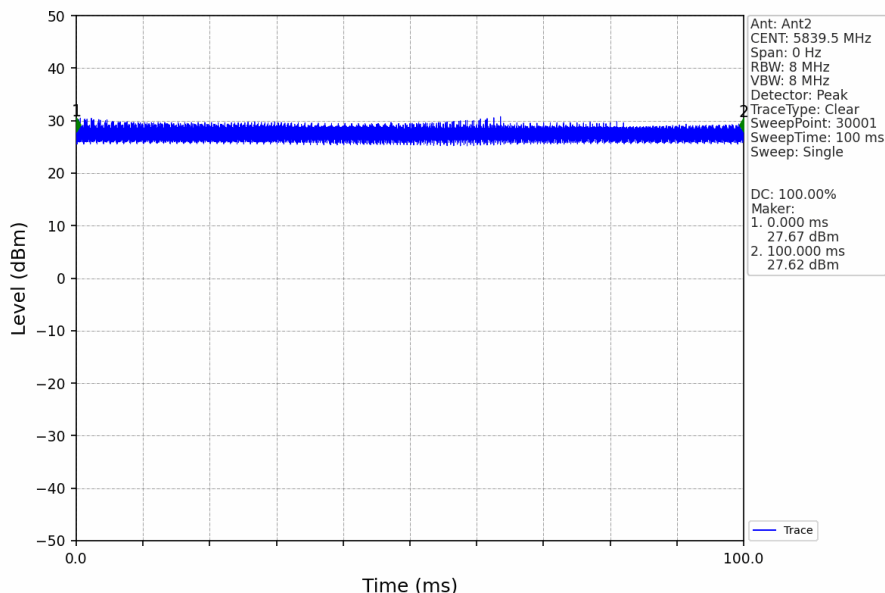
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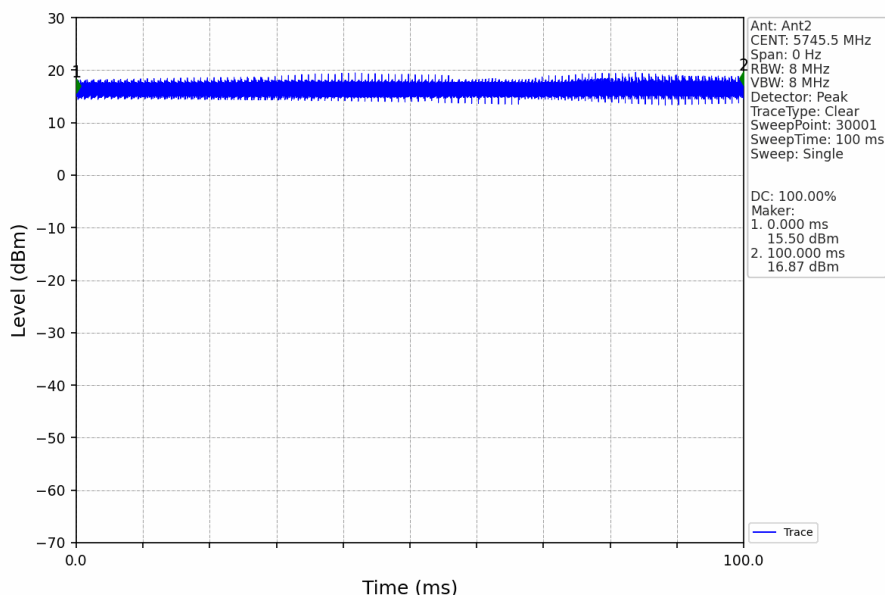
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20M\_HCH\_5839.5MHz\_Ant2\_NTNV

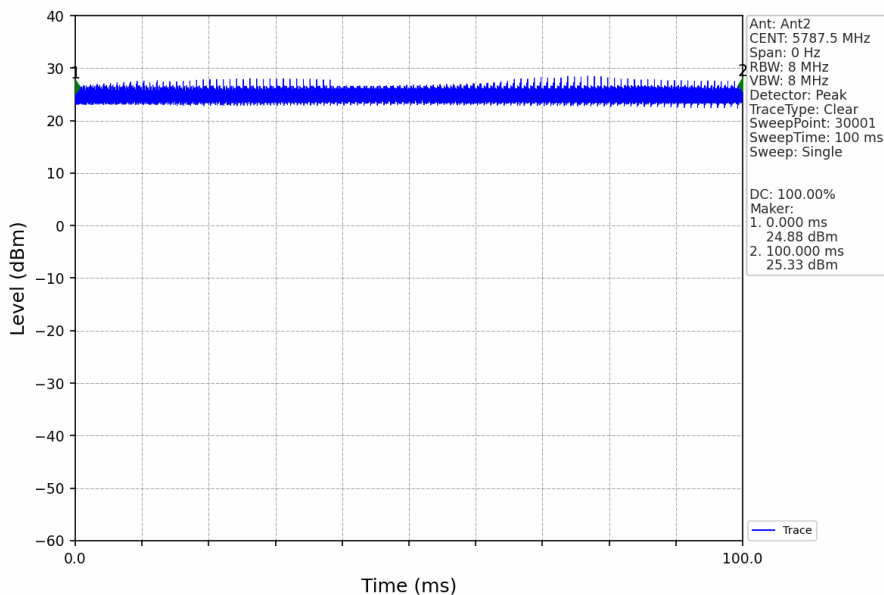


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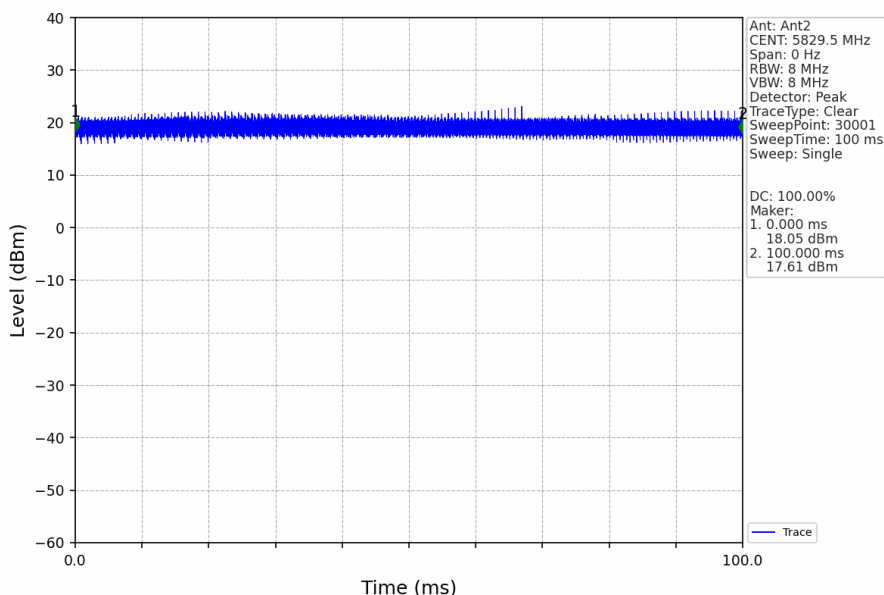




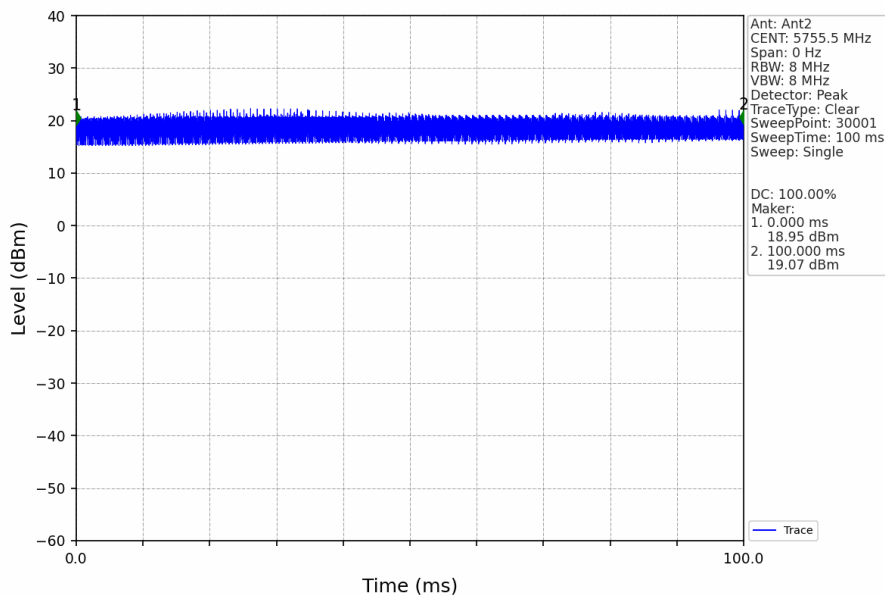
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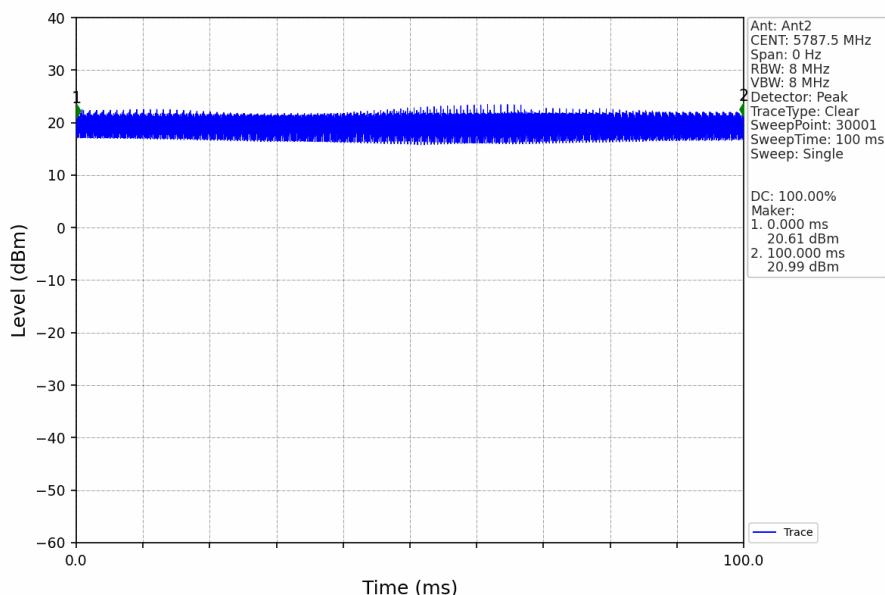
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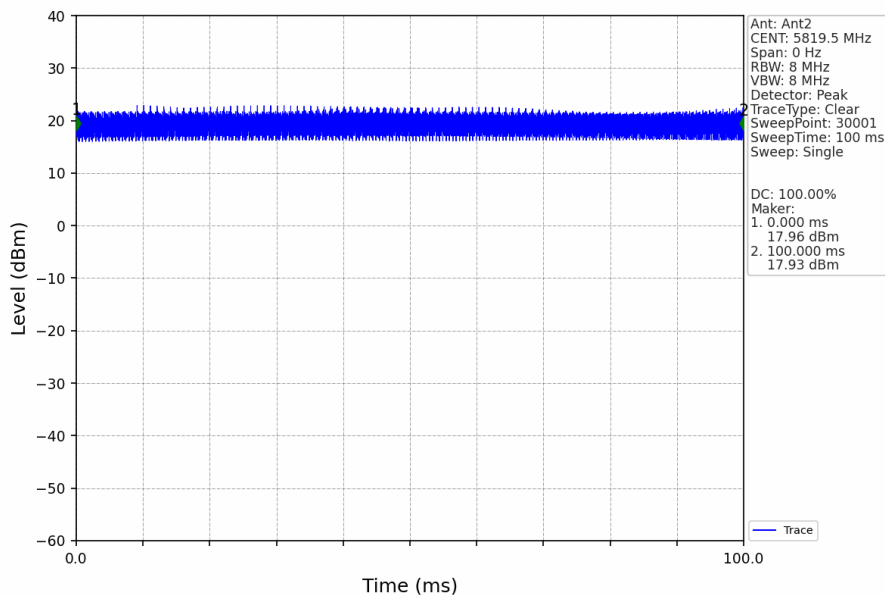
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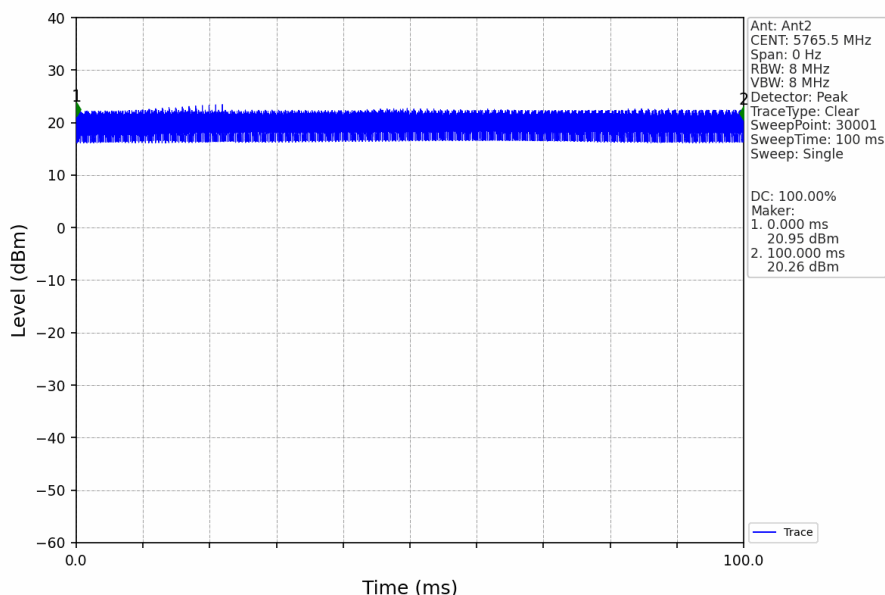
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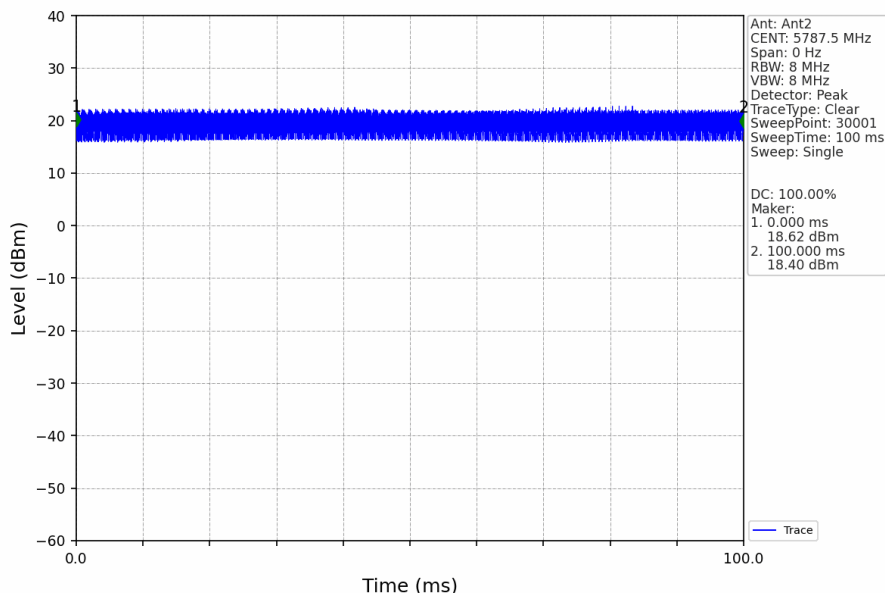
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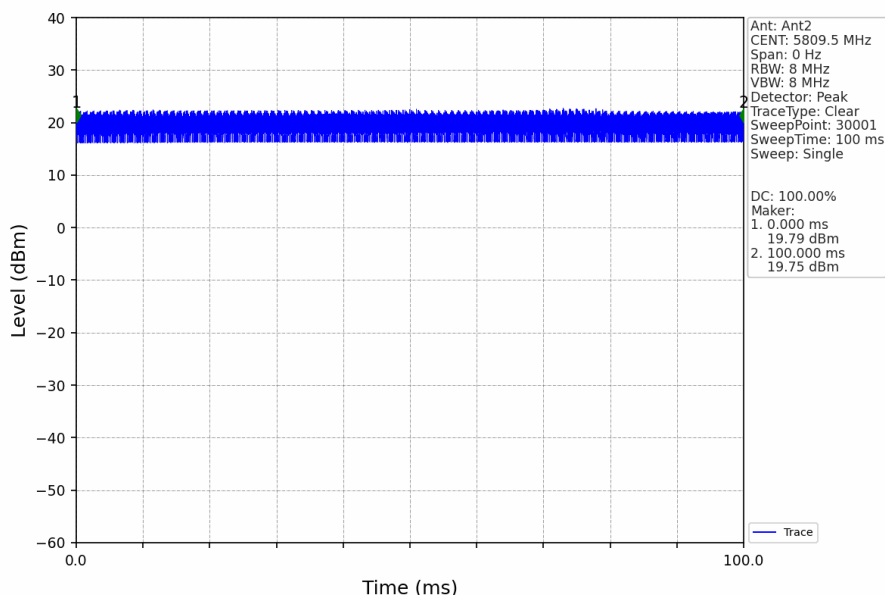
80M\_LCH\_5765.5MHz\_Ant2\_NTNV



80M\_MCH\_5787.5MHz\_Ant2\_NTNV



80M\_HCH\_5809.5MHz\_Ant2\_NTNV





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	2	1.383	/	Pass
		5786.5	2	1.359	/	Pass
		5846.12	2	1.363	/	Pass
3M	MIMO	5727.5	2	2.301	/	Pass
		5787.5	2	2.304	/	Pass
		5847.2	2	2.305	/	Pass
5M	MIMO	5732.5	2	4.507	/	Pass
		5787.5	2	4.501	/	Pass
		5842.5	2	4.502	/	Pass
10M	MIMO	5730.5	2	9.466	/	Pass
		5787.5	2	9.471	/	Pass
		5844.5	2	9.607	/	Pass
20M	MIMO	5735.5	2	18.361	/	Pass
		5787.5	2	18.215	/	Pass
		5839.5	2	18.184	/	Pass
40M	MIMO	5745.5	2	32.163	/	Pass
		5787.5	2	32.617	/	Pass
		5829.5	2	32.026	/	Pass
60M	MIMO	5755.5	2	52.199	/	Pass
		5787.5	2	52.266	/	Pass
		5819.5	2	52.246	/	Pass
80M	MIMO	5765.5	2	61.850	/	Pass
		5787.5	2	61.600	/	Pass
		5809.5	2	61.785	/	Pass

#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	2	1.120	$\geq 0.5$	Pass
		5786.5	2	1.103	$\geq 0.5$	Pass
		5846.12	2	1.101	$\geq 0.5$	Pass
3M	MIMO	5727.5	2	2.214	$\geq 0.5$	Pass
		5787.5	2	2.198	$\geq 0.5$	Pass
		5847.2	2	2.219	$\geq 0.5$	Pass
5M	MIMO	5732.5	2	4.405	$\geq 0.5$	Pass
		5787.5	2	4.394	$\geq 0.5$	Pass
		5842.5	2	4.396	$\geq 0.5$	Pass
10M	MIMO	5730.5	2	9.051	$\geq 0.5$	Pass
		5787.5	2	9.052	$\geq 0.5$	Pass

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		5844.5	2	9.050	$\geq 0.5$	Pass
20M	MIMO	5735.5	2	17.518	$\geq 0.5$	Pass
		5787.5	2	17.154	$\geq 0.5$	Pass
		5839.5	2	17.816	$\geq 0.5$	Pass
		5745.5	2	21.245	$\geq 0.5$	Pass
40M	MIMO	5787.5	2	23.768	$\geq 0.5$	Pass
		5829.5	2	21.301	$\geq 0.5$	Pass
		5755.5	2	40.132	$\geq 0.5$	Pass
60M	MIMO	5787.5	2	40.038	$\geq 0.5$	Pass
		5819.5	2	41.020	$\geq 0.5$	Pass
		5765.5	2	41.710	$\geq 0.5$	Pass
80M	MIMO	5787.5	2	39.693	$\geq 0.5$	Pass
		5809.5	2	40.400	$\geq 0.5$	Pass



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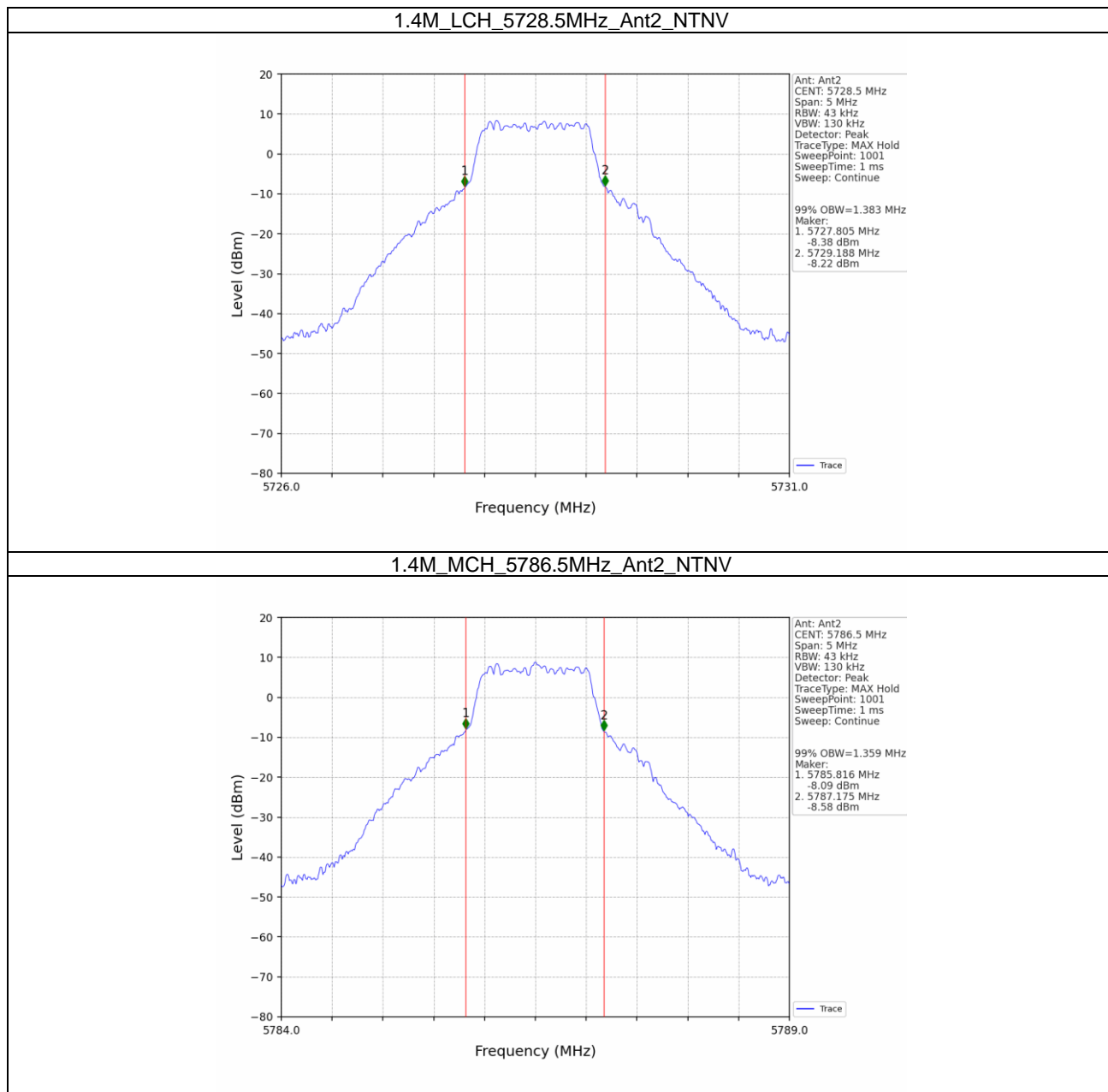
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## 2.2 Test Graph

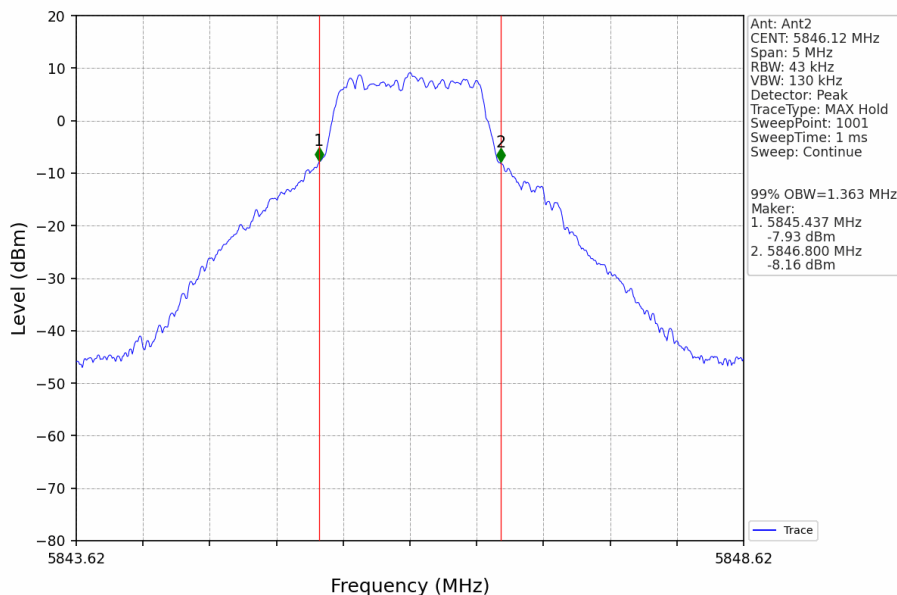
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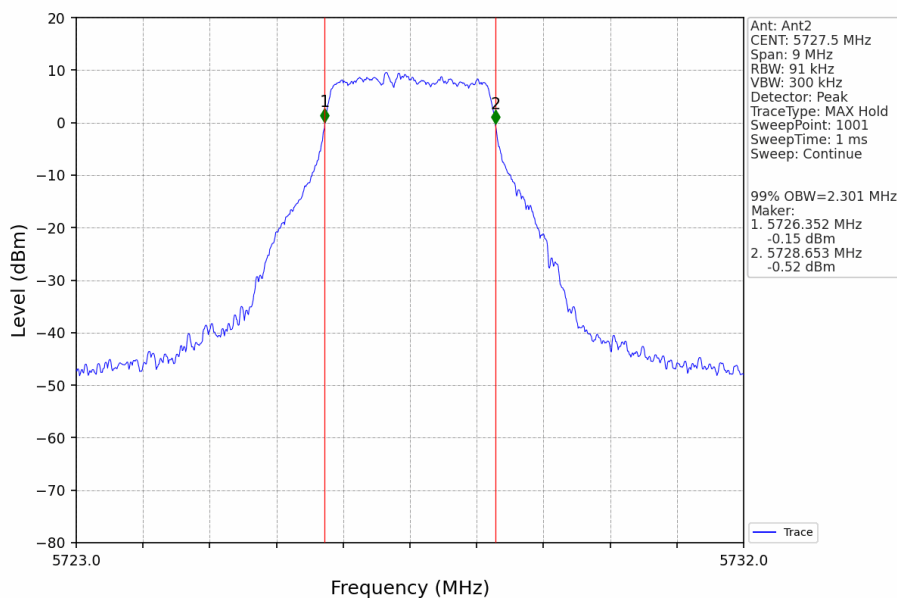
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1.4M\_HCH\_5846.12MHz\_Ant2\_NTNV



3M\_LCH\_5727.5MHz\_Ant2\_NTNV

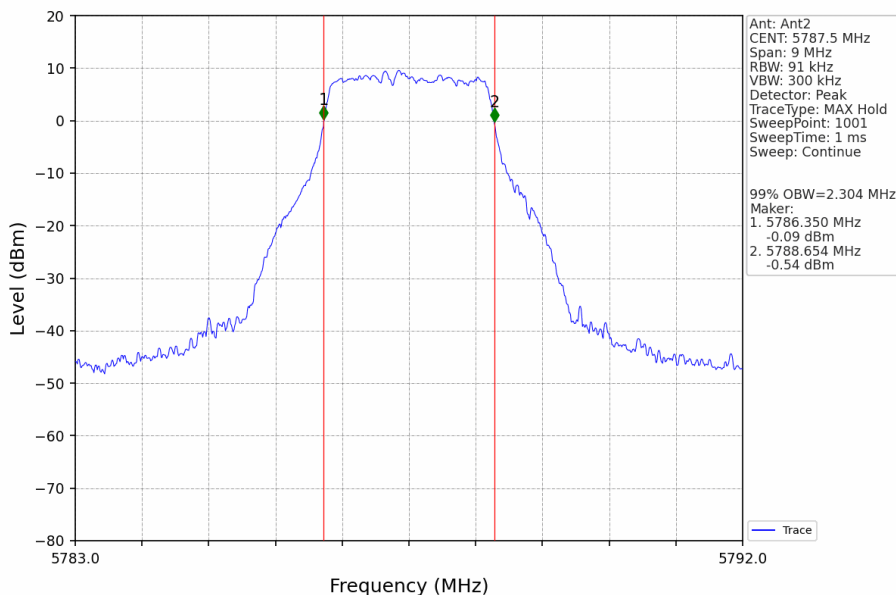


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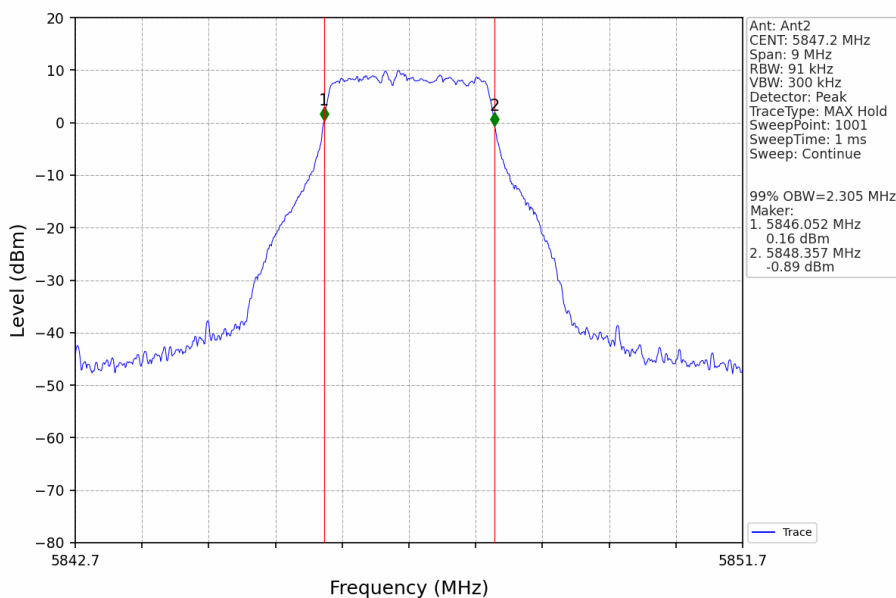
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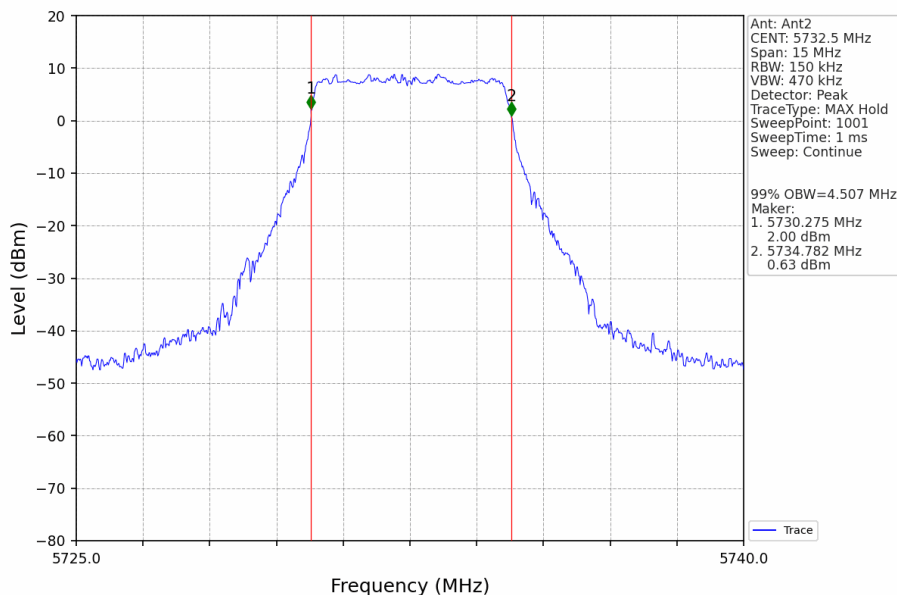
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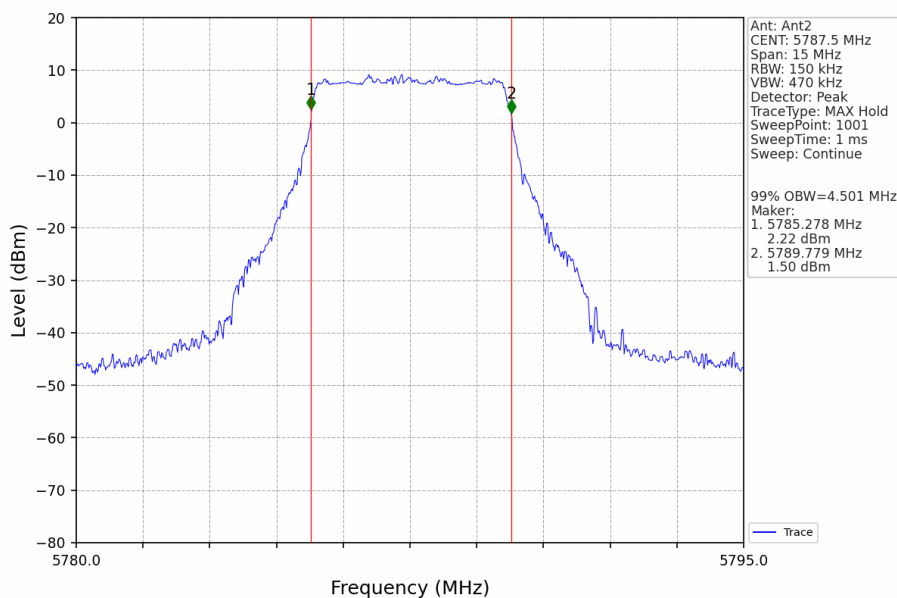
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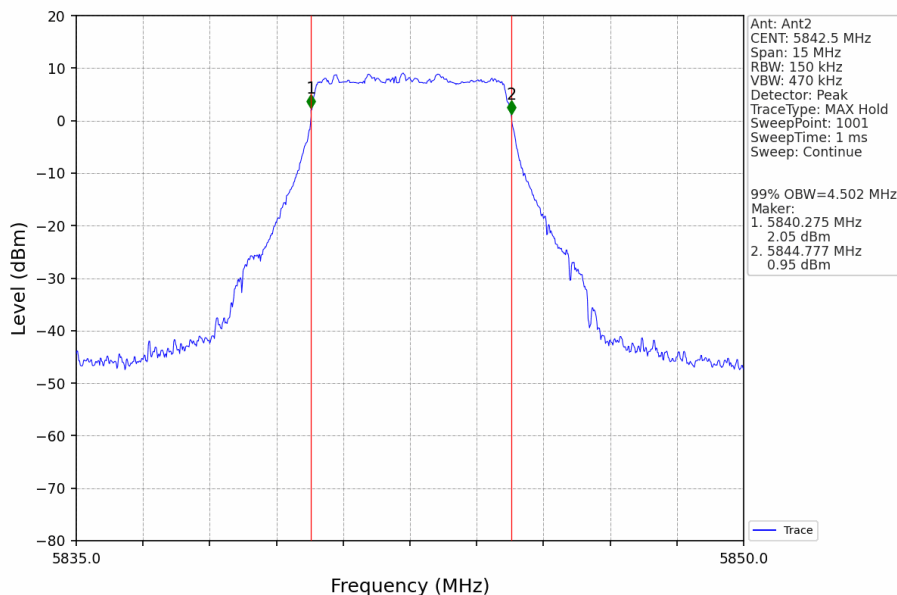
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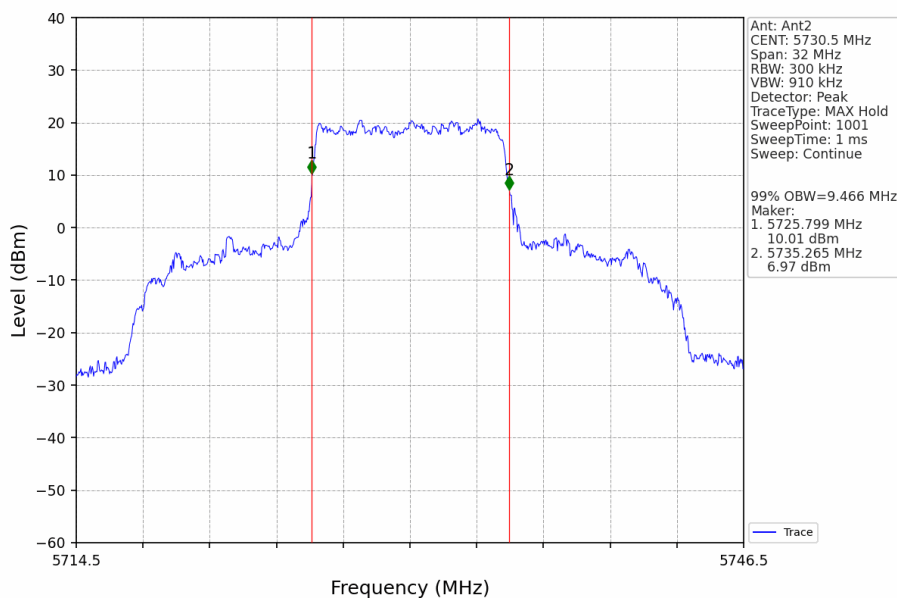
5M\_MCH\_5787.5MHz\_Ant2\_NTNV



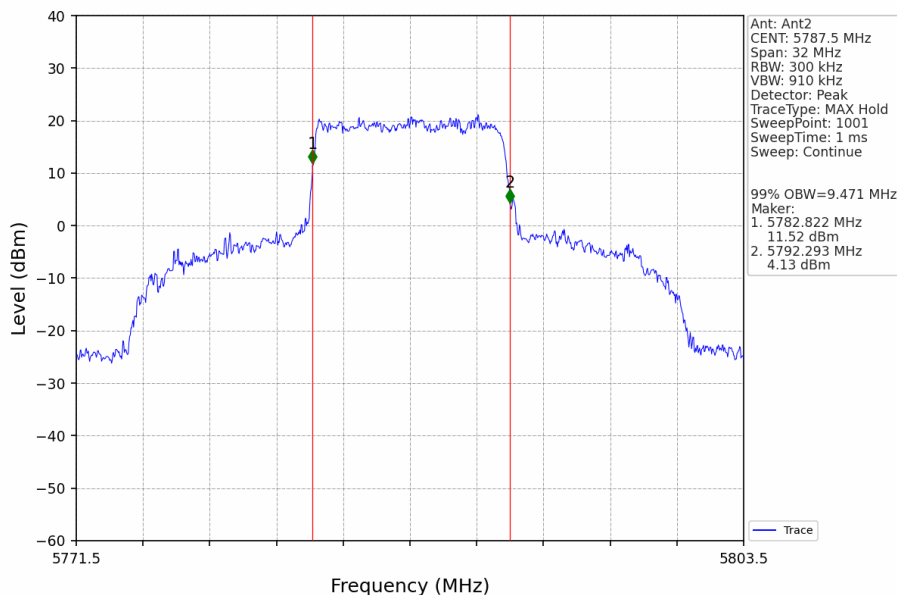
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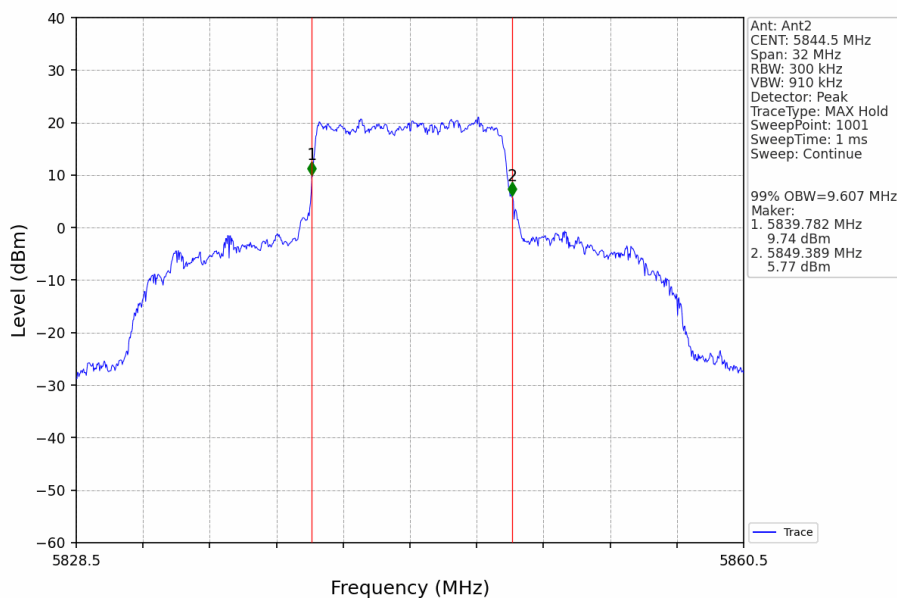
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10M\_MCH\_5787.5MHz\_Ant2\_NTNV

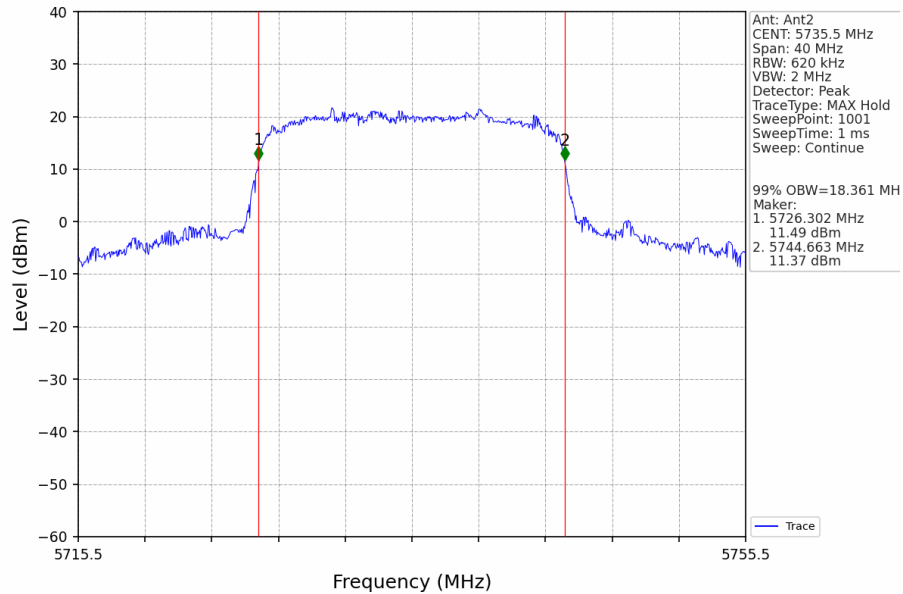


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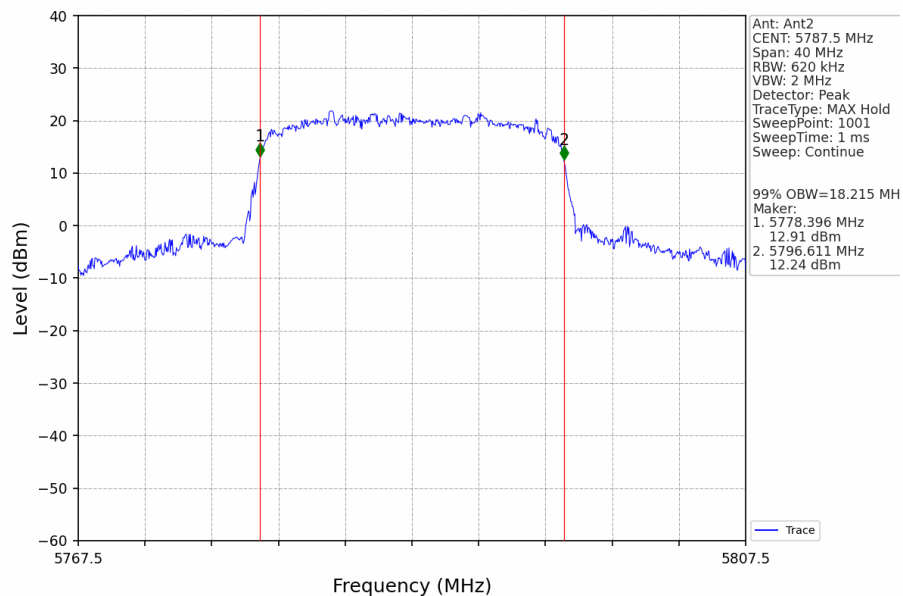




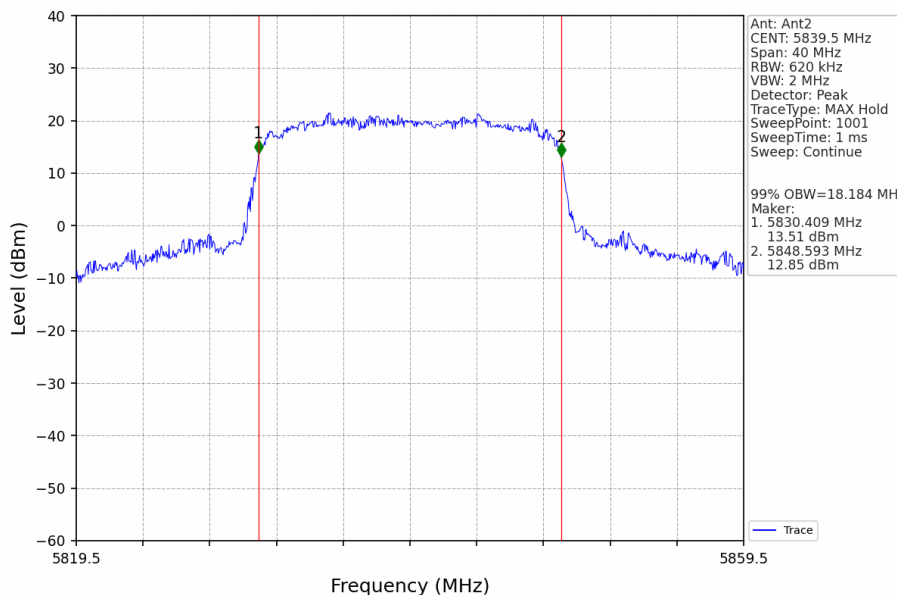
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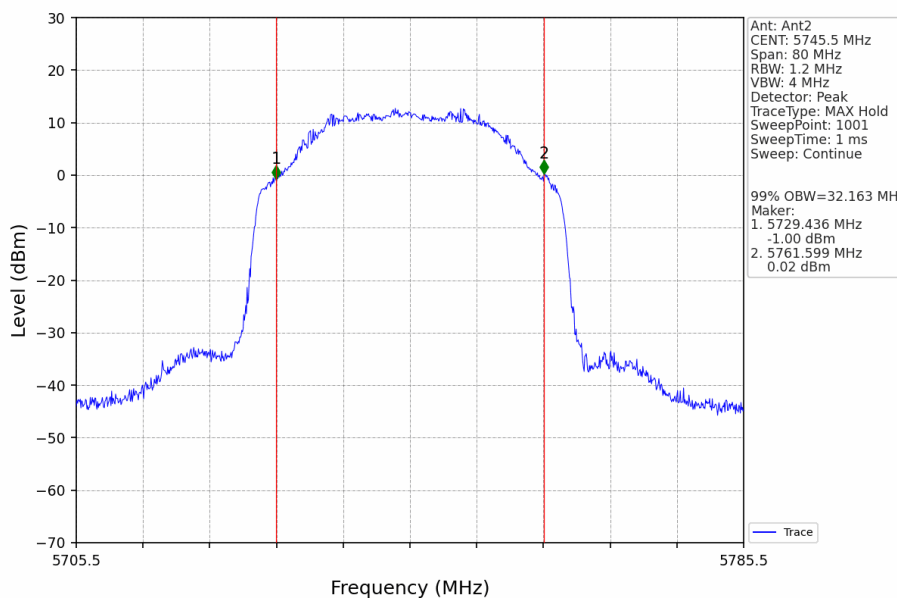
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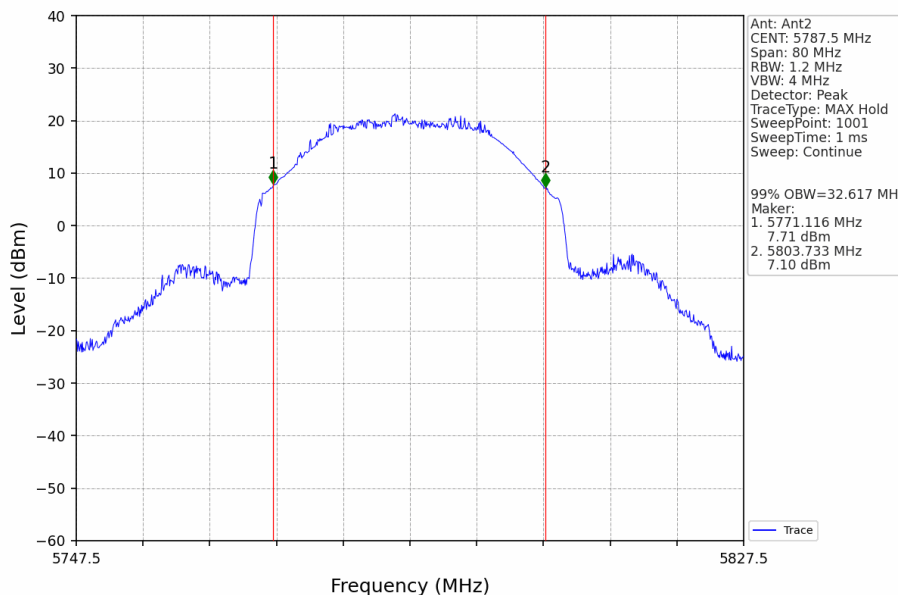
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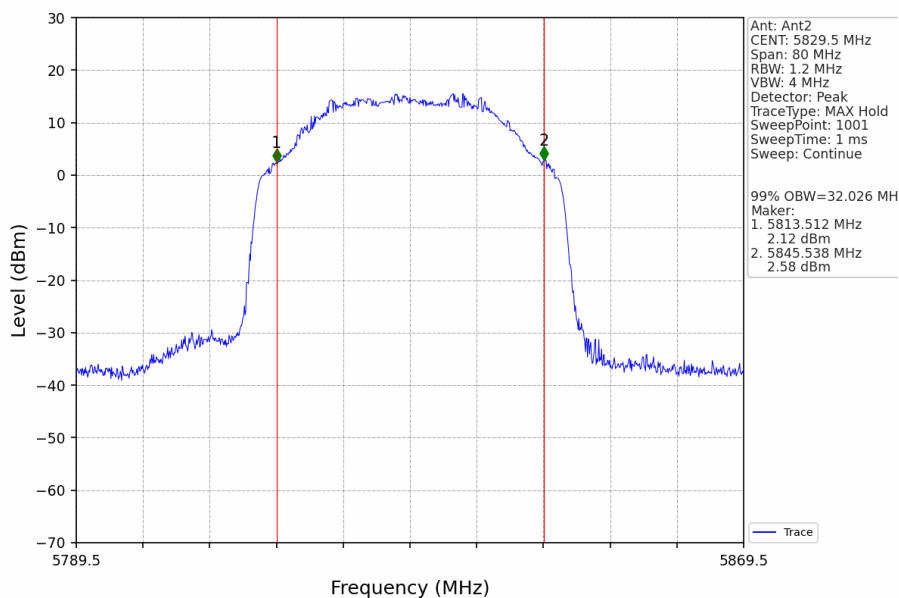
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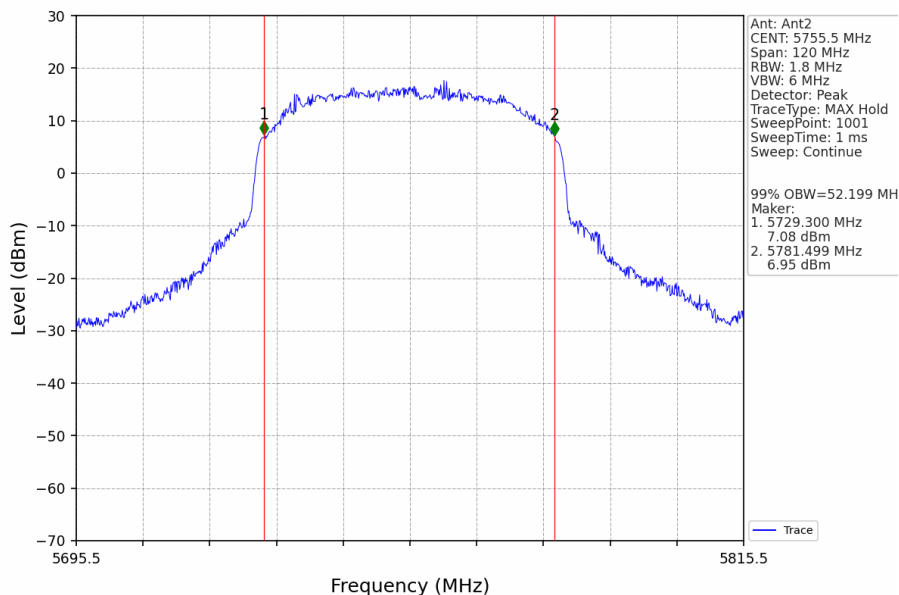
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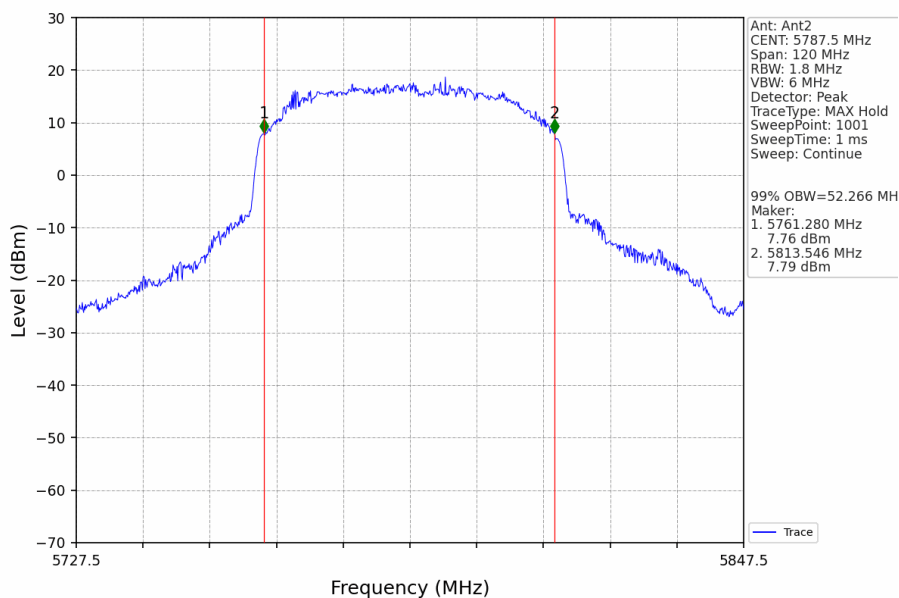
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60M\_LCH\_5755.5MHz\_Ant2\_NTNV

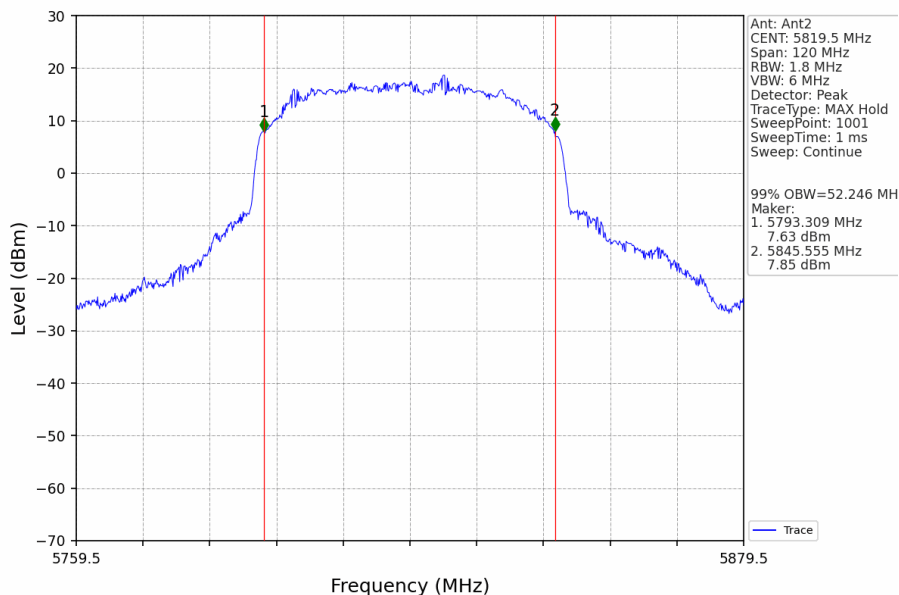


60M\_MCH\_5787.5MHz\_Ant2\_NTNV

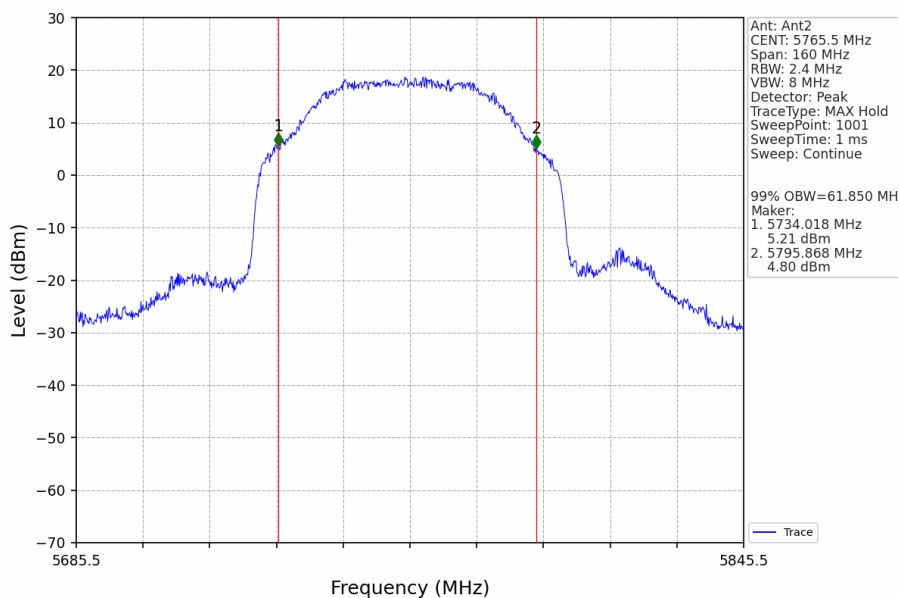




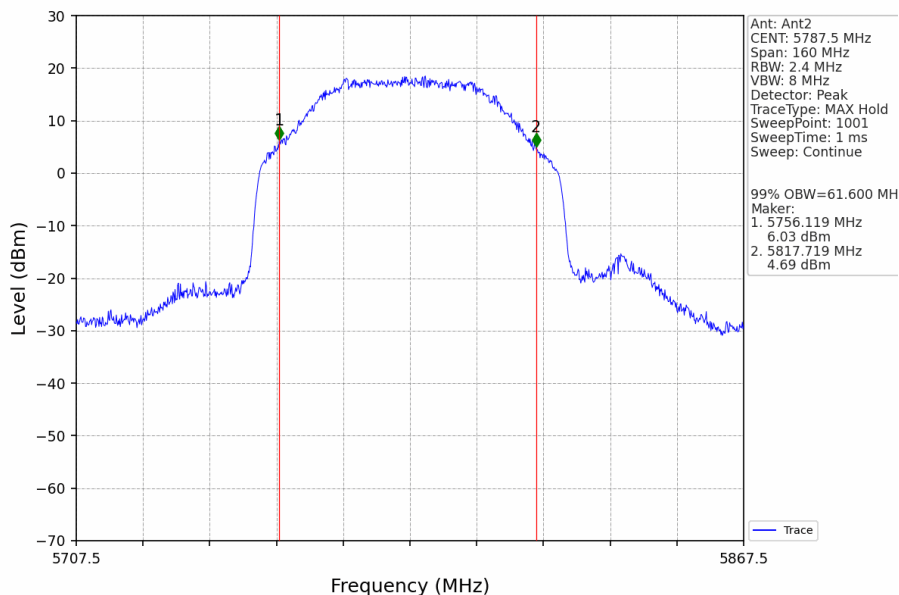
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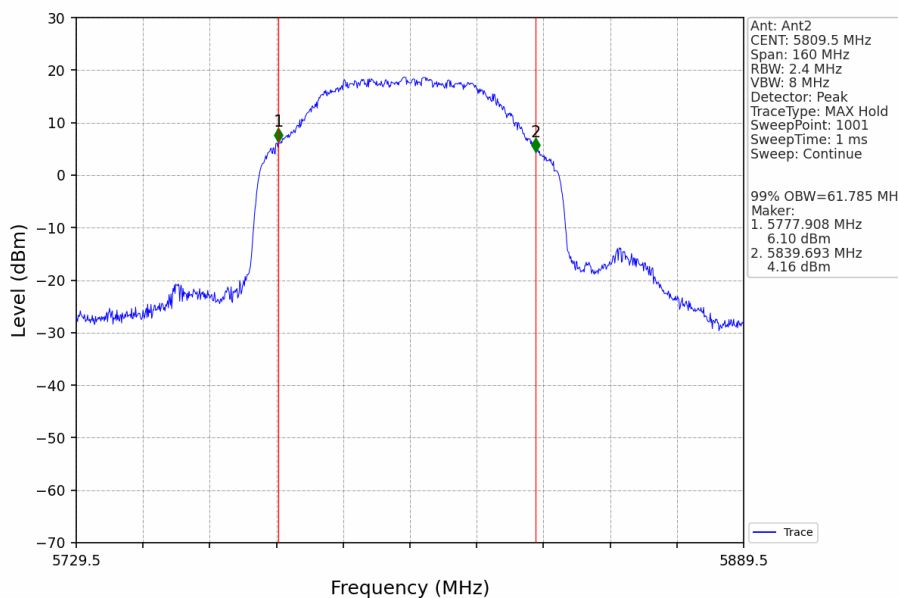
80M\_LCH\_5765.5MHz\_Ant2\_NTNV



80M\_MCH\_5787.5MHz\_Ant2\_NTNV



80M\_HCH\_5809.5MHz\_Ant2\_NTNV



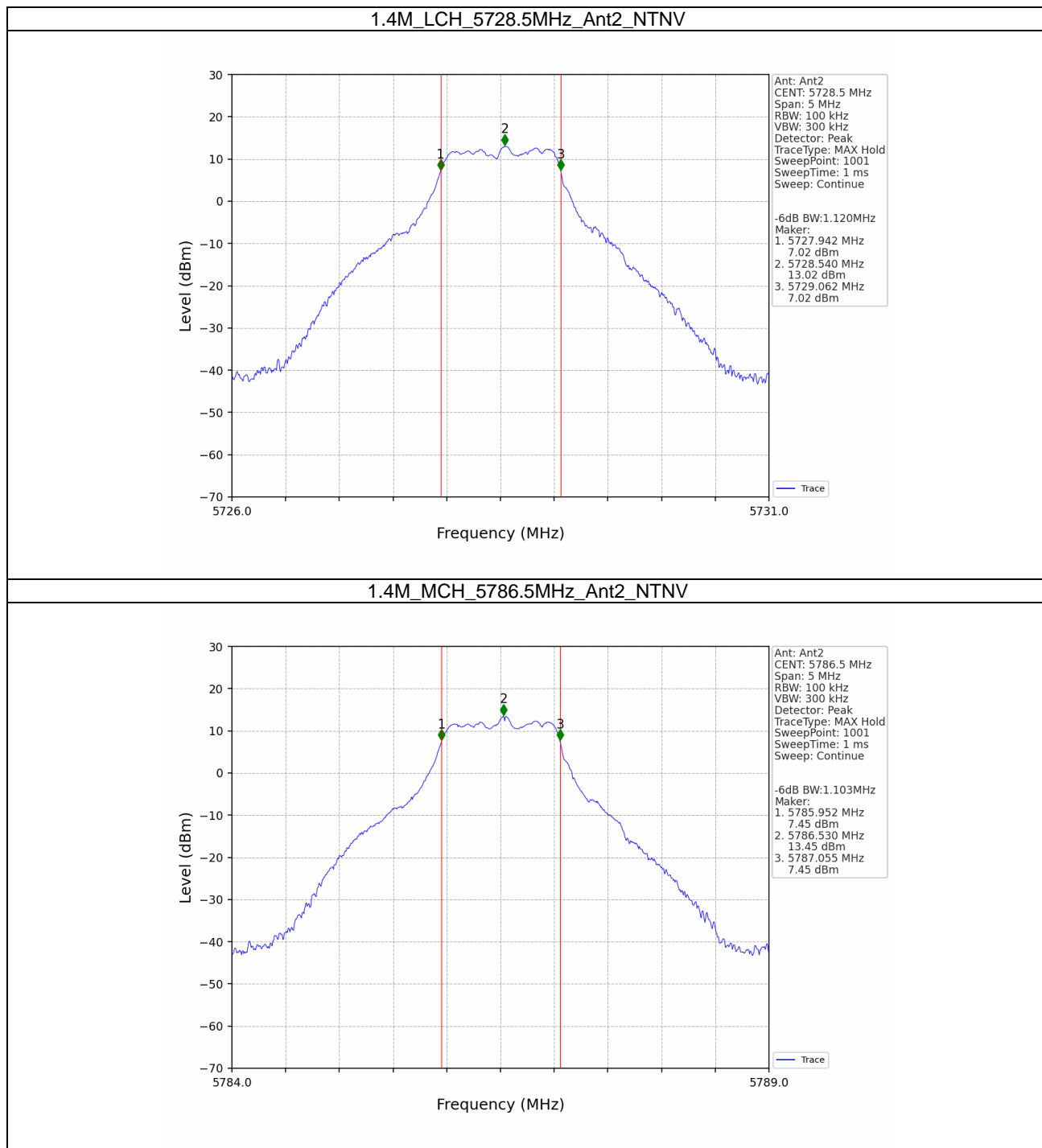
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### 2.2.2 6dB BW



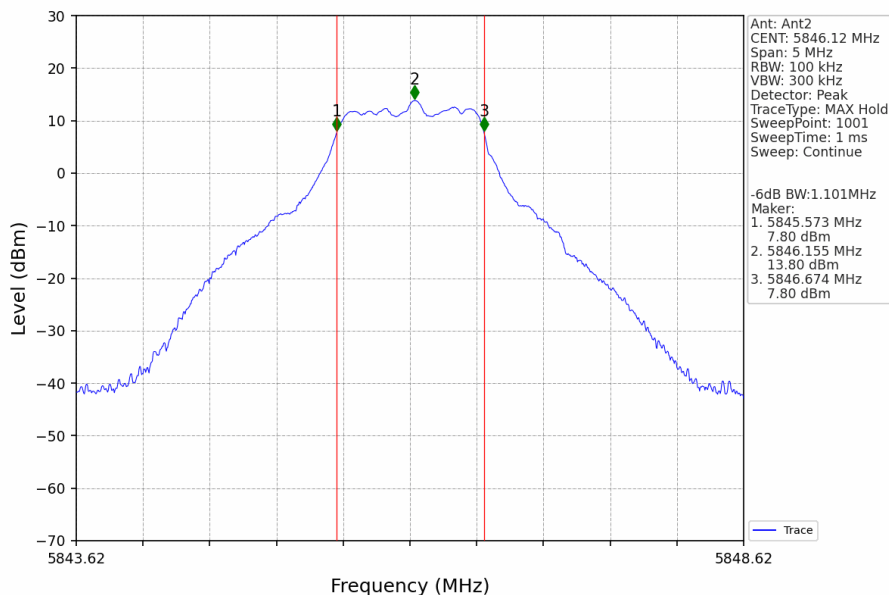
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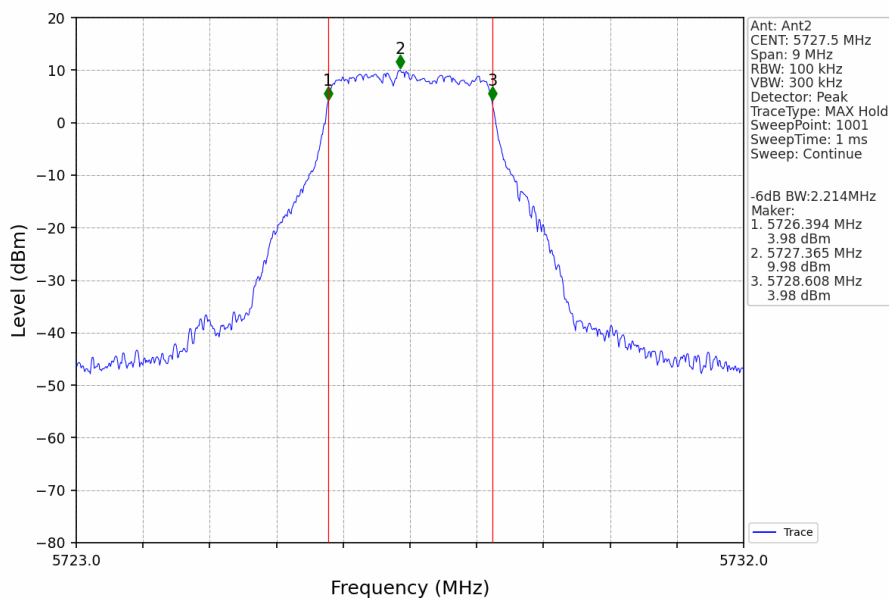
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1.4M\_HCH\_5846.12MHz\_Ant2\_NTNV

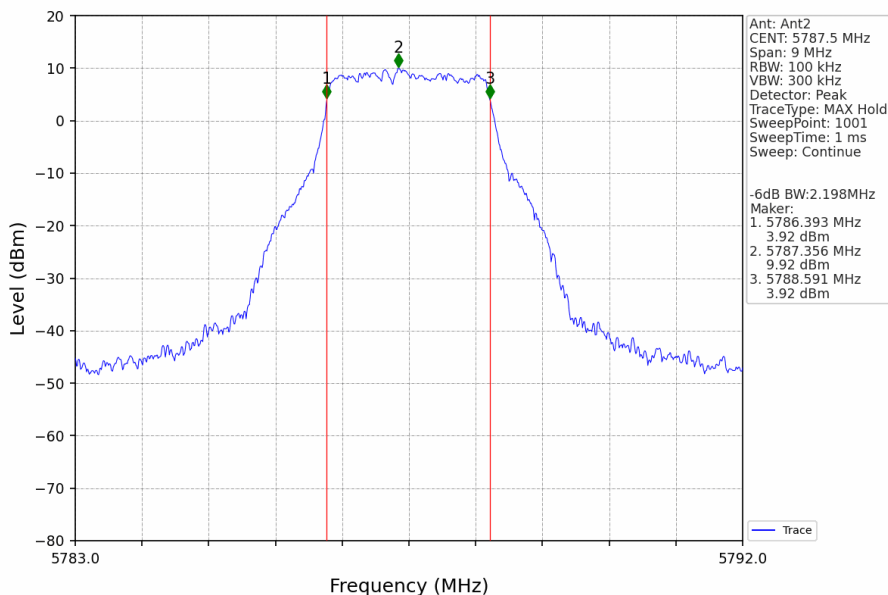


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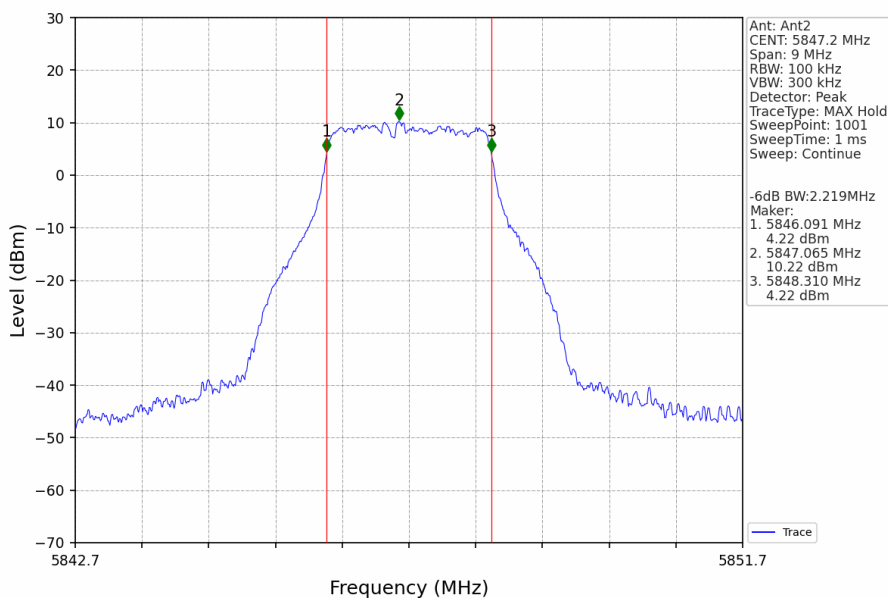




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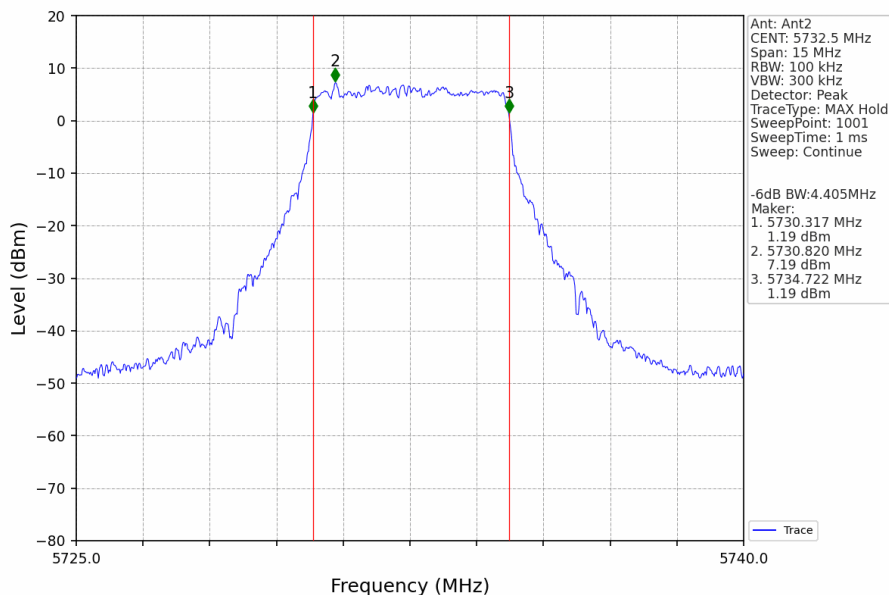
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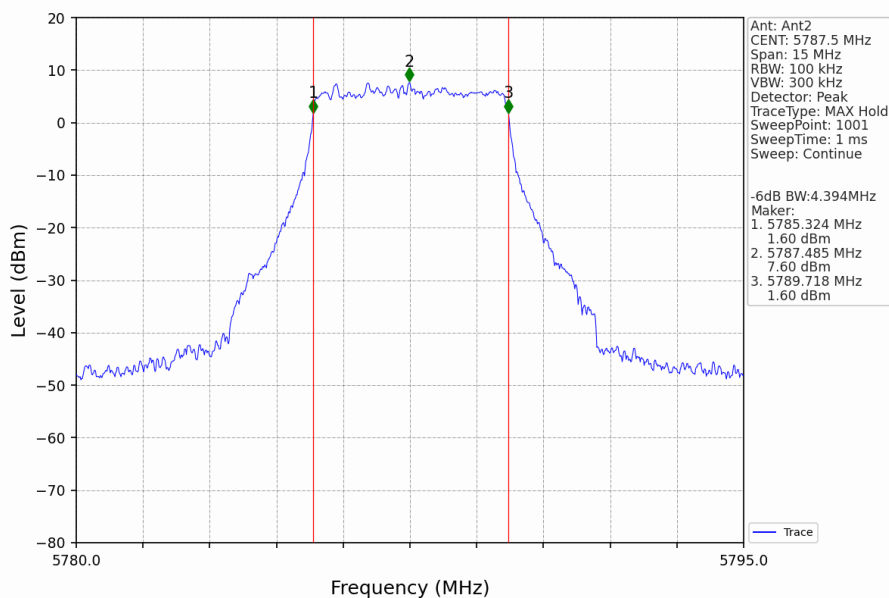
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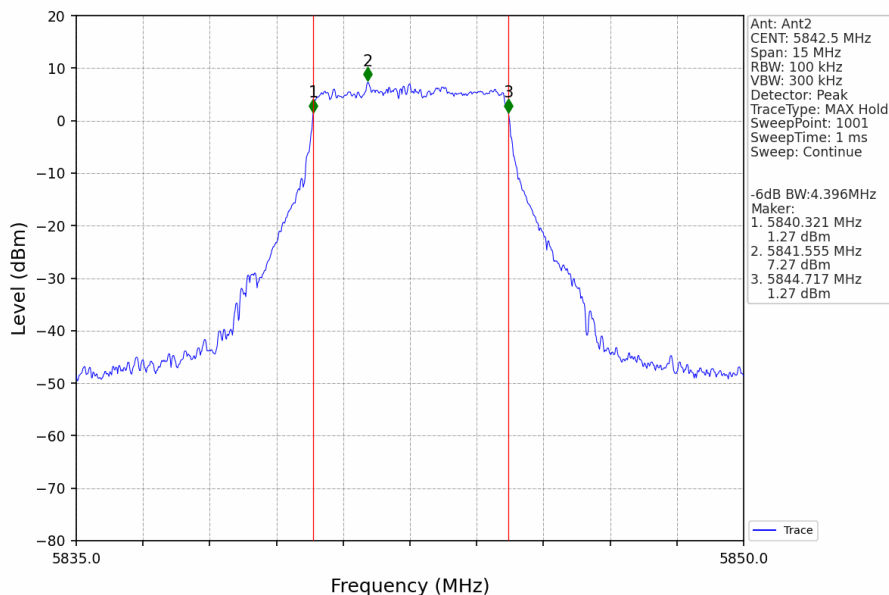
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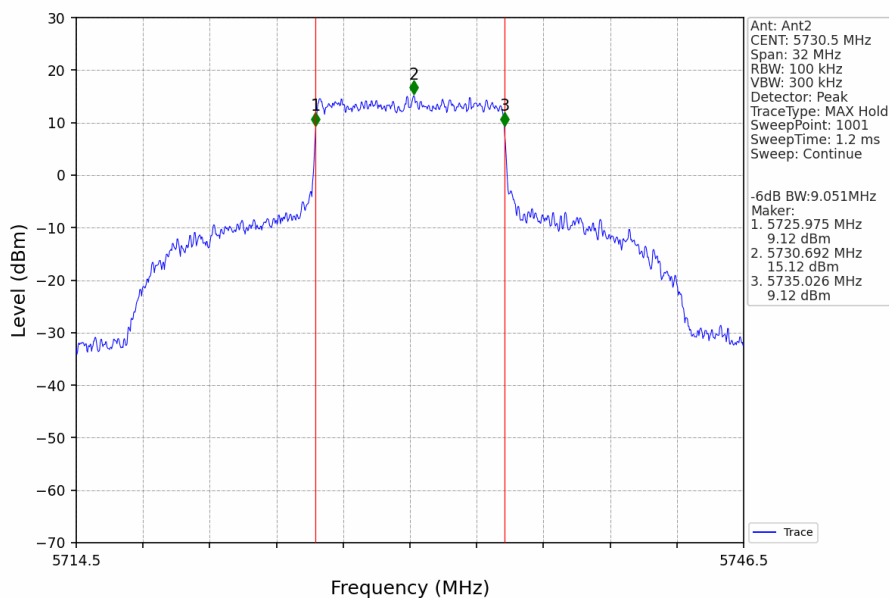
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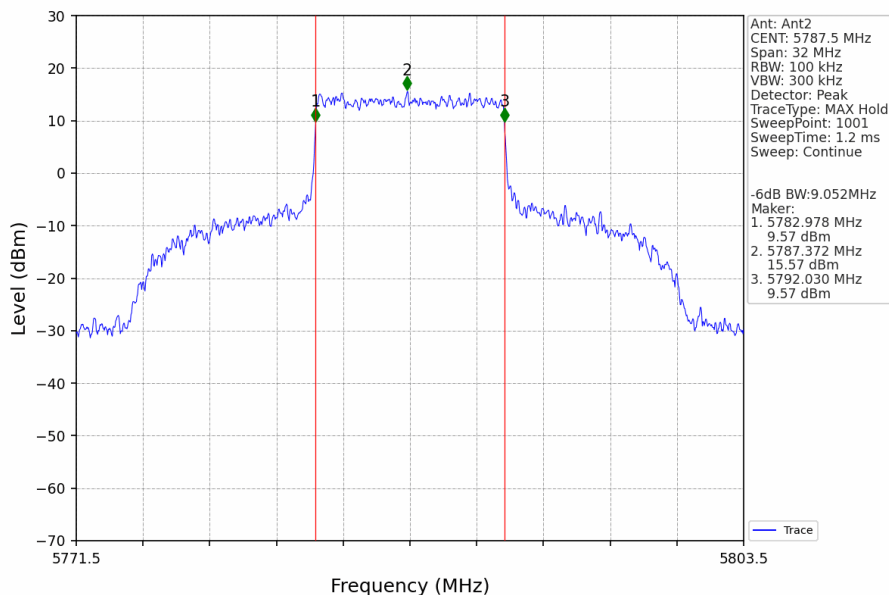
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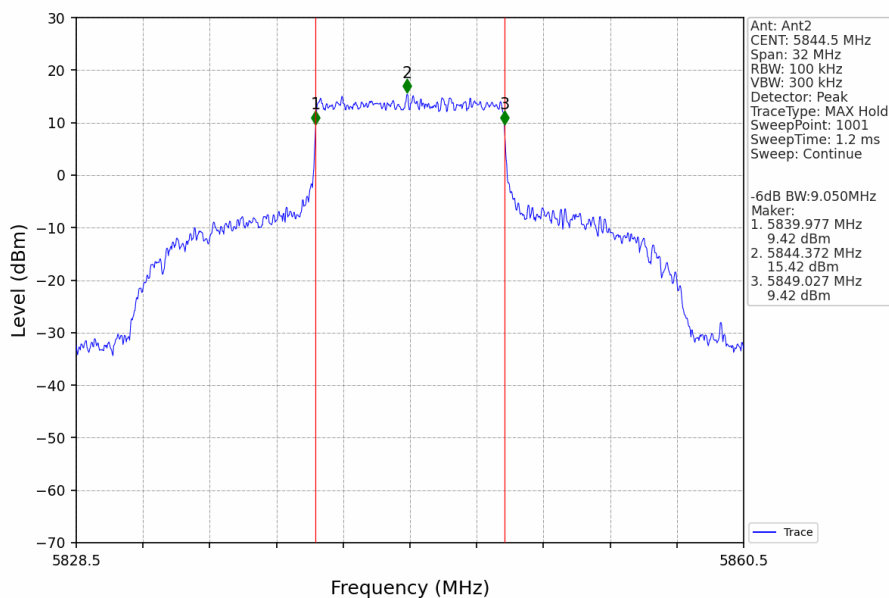
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10M\_MCH\_5787.5MHz\_Ant2\_NTNV

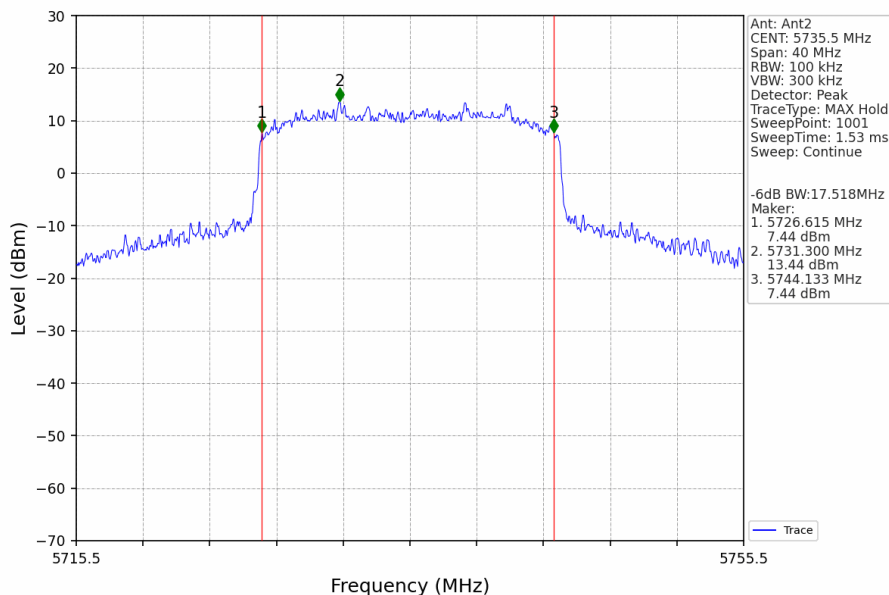


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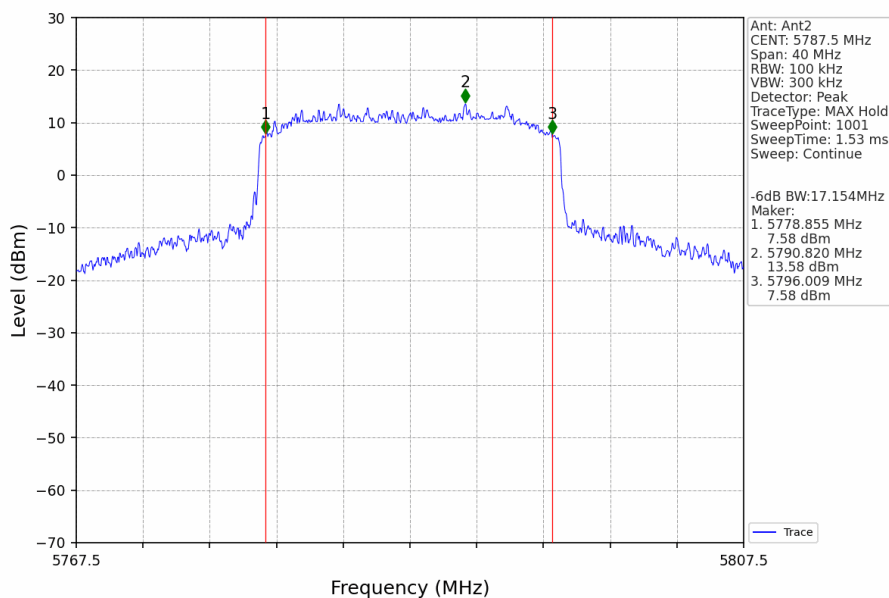




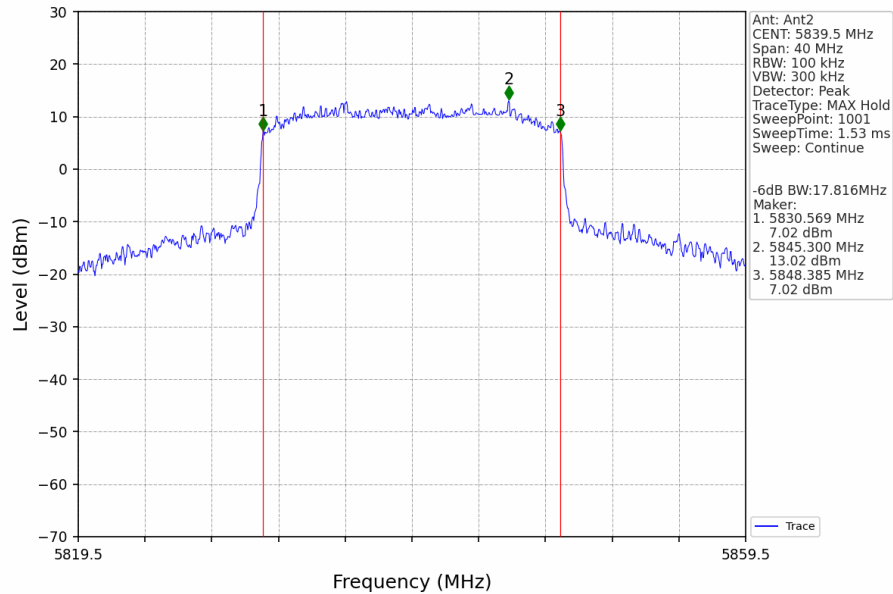
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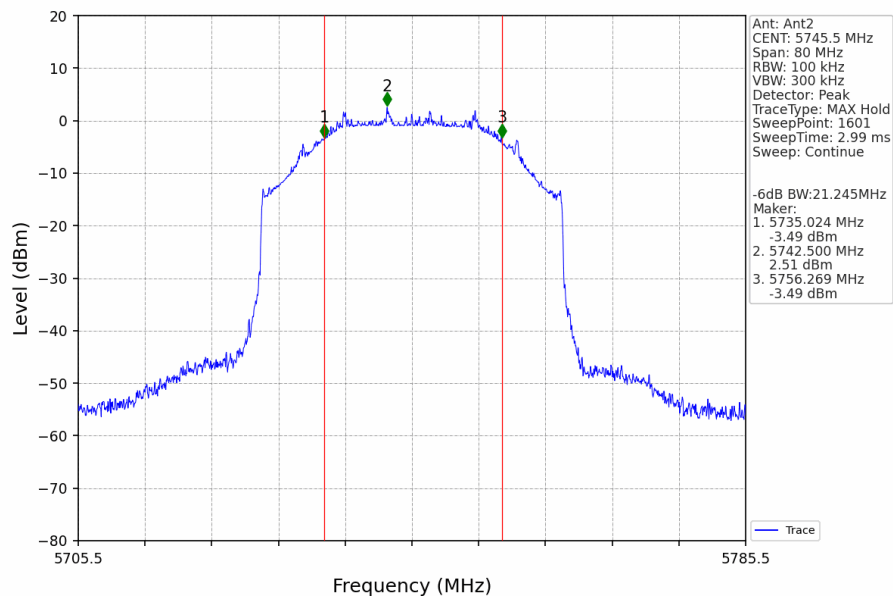
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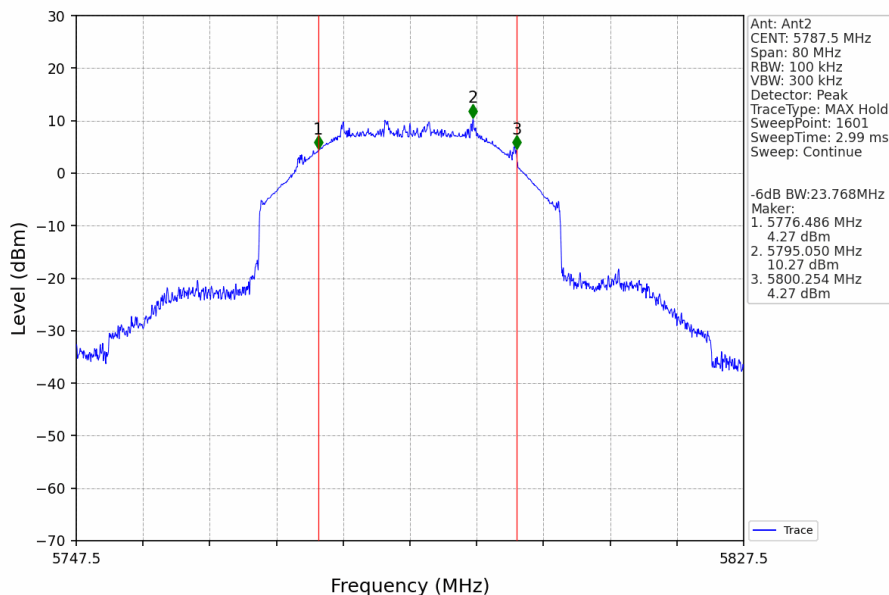
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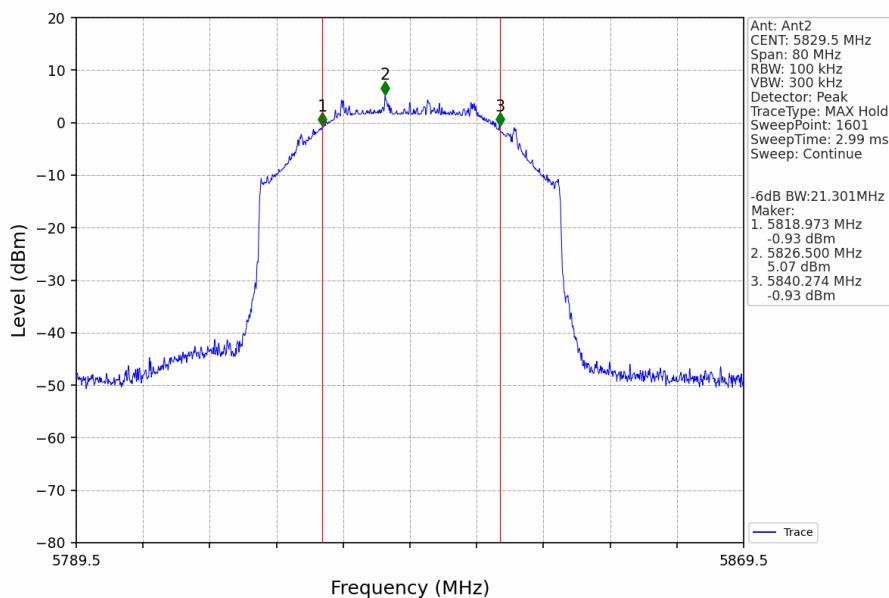
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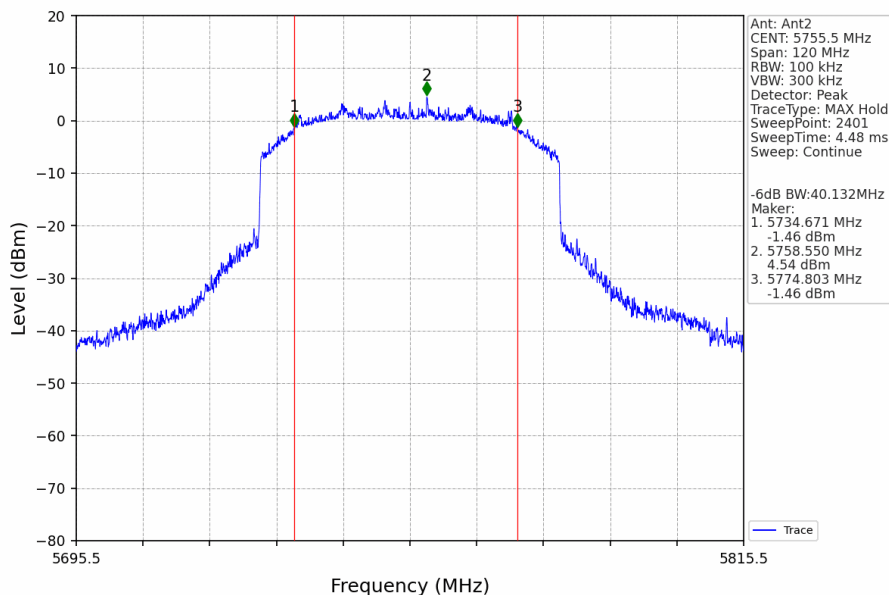
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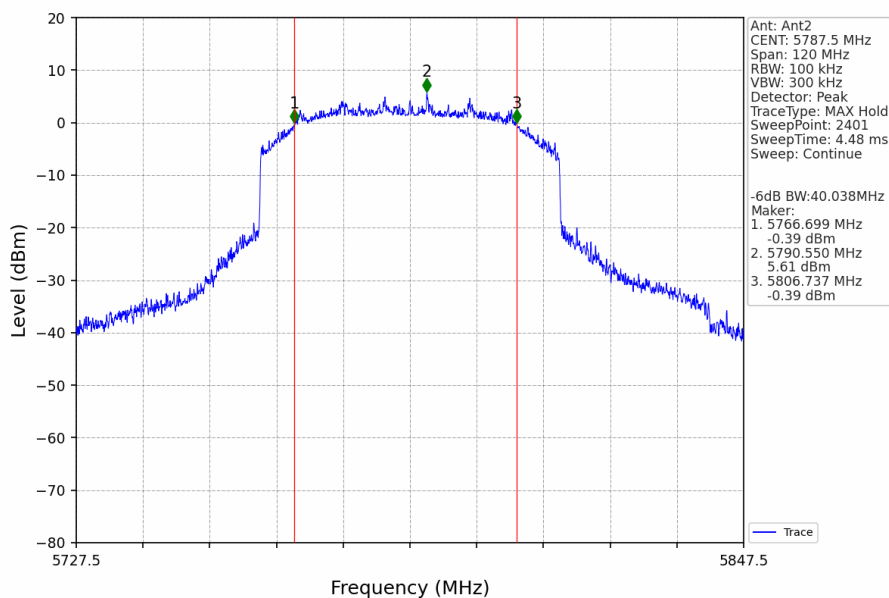
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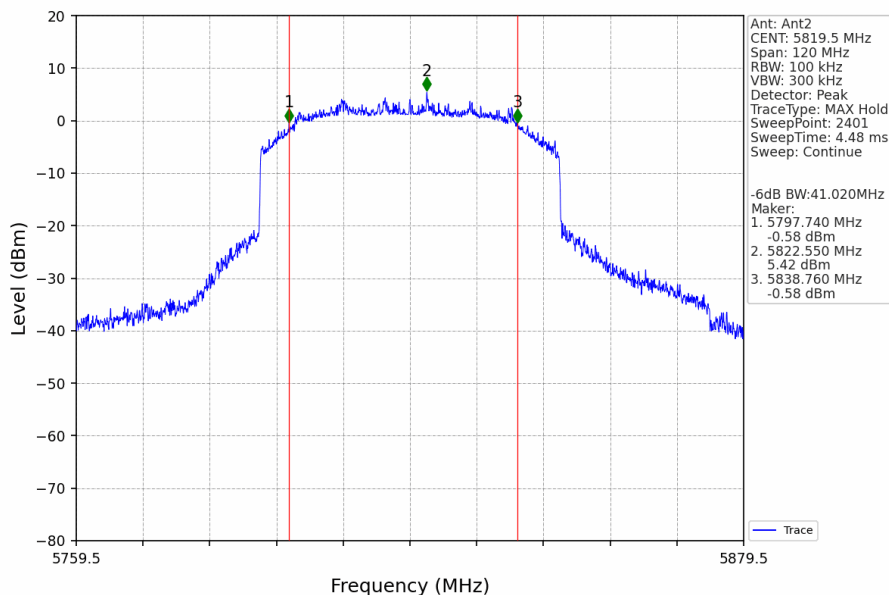


60M\_MCH\_5787.5MHz\_Ant2\_NTNV

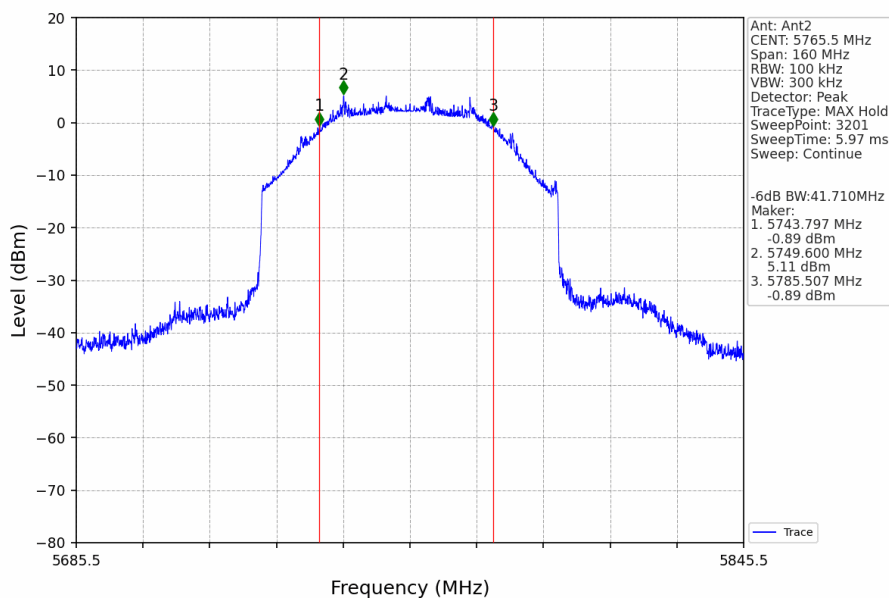




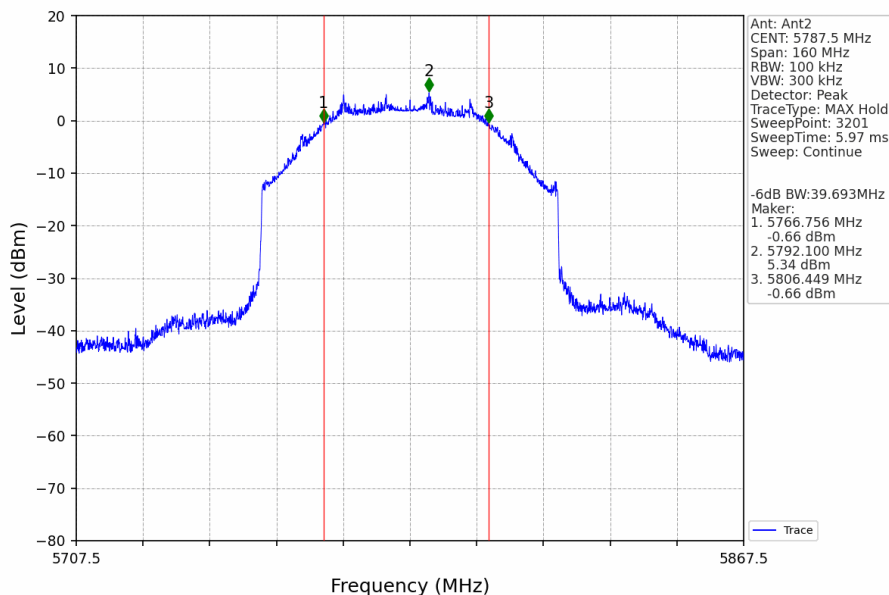
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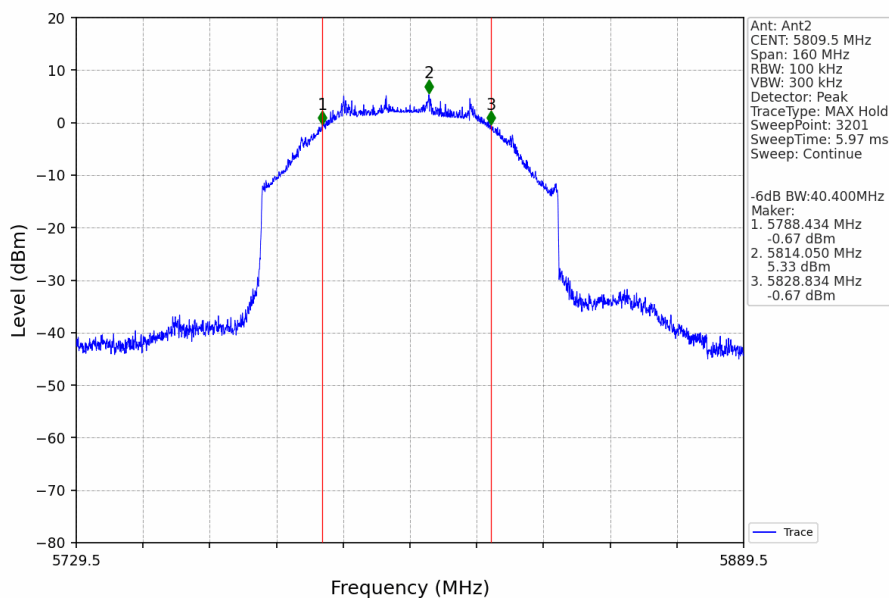
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80M\_MCH\_5787.5MHz\_Ant2\_NTNV



80M\_HCH\_5809.5MHz\_Ant2\_NTNV



## 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT2	ANT3	MIMO	Limit	
1.4M	MIMO	5728.5	13.47	14.35	16.94	<=29.89	Pass
		5786.5	13.27	14.30	16.83	<=29.89	Pass
		5846.12	13.50	14.26	16.91	<=29.89	Pass
3M	MIMO	5727.5	13.99	14.87	17.46	<=29.89	Pass
		5787.5	13.94	15.17	17.61	<=29.89	Pass
		5847.2	14.29	15.29	17.83	<=29.89	Pass
5M	MIMO	5732.5	14.13	15.58	17.93	<=29.89	Pass
		5787.5	14.43	15.84	18.20	<=29.89	Pass
		5842.5	14.13	15.43	17.84	<=29.89	Pass
10M	MIMO	5730.5	25.13	26.11	28.66	<=29.89	Pass
		5787.5	25.66	25.91	28.80	<=29.89	Pass
		5844.5	25.47	25.75	28.62	<=29.89	Pass
20M	MIMO	5735.5	25.42	26.21	28.84	<=29.89	Pass
		5787.5	25.60	26.18	28.91	<=29.89	Pass
		5839.5	25.28	25.73	28.52	<=29.89	Pass
40M	MIMO	5745.5	19.89	20.72	23.34	<=29.89	Pass
		5787.5	22.36	23.61	26.04	<=29.89	Pass
		5829.5	19.01	19.89	22.48	<=29.89	Pass
60M	MIMO	5755.5	20.60	21.29	23.97	<=29.89	Pass
		5787.5	20.70	21.51	24.13	<=29.89	Pass
		5819.5	20.65	21.82	24.28	<=29.89	Pass
80M	MIMO	5765.5	21.05	22.13	24.63	<=29.89	Pass
		5787.5	20.79	22.13	24.52	<=29.89	Pass
		5809.5	21.02	22.25	24.69	<=29.89	Pass

Note1: Antenna Gain: Ant2: 3.10dBi; Ant3: 2.51dBi;  
Note2: Directional Gain: Band3: 6.11dBi

## 4. Maximum Power Spectral Density

### 4.1 Test Result

#### 4.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT2	ANT3	MIMO	Limit	
1.4M	MIMO	5728.5	12.11	13.07	15.43	<=29.89	Pass
		5786.5	11.99	13.13	15.50	<=29.89	Pass
		5846.12	12.18	12.98	15.58	<=29.89	Pass
3M	MIMO	5727.5	9.57	10.42	12.84	<=29.89	Pass
		5787.5	9.29	10.92	13.01	<=29.89	Pass
		5847.2	9.63	11.25	13.31	<=29.89	Pass
5M	MIMO	5732.5	6.09	7.67	9.73	<=29.89	Pass
		5787.5	6.64	7.88	10.13	<=29.89	Pass
		5842.5	6.15	7.42	9.65	<=29.89	Pass
10M	MIMO	5730.5	13.66	14.82	17.20	<=29.89	Pass
		5787.5	14.24	14.46	17.19	<=29.89	Pass
		5844.5	14.02	14.33	17.01	<=29.89	Pass
20M	MIMO	5735.5	11.61	12.57	14.73	<=29.89	Pass
		5787.5	11.62	12.80	15.10	<=29.89	Pass
		5839.5	11.45	11.89	14.51	<=29.89	Pass
40M	MIMO	5745.5	4.89	5.59	8.10	<=29.89	Pass
		5787.5	7.35	8.81	10.81	<=29.89	Pass
		5829.5	4.23	4.79	7.27	<=29.89	Pass
60M	MIMO	5755.5	3.28	3.42	6.25	<=29.89	Pass
		5787.5	3.04	3.68	6.31	<=29.89	Pass
		5819.5	2.95	4.37	6.50	<=29.89	Pass
80M	MIMO	5765.5	2.98	4.32	6.44	<=29.89	Pass
		5787.5	2.92	5.10	6.92	<=29.89	Pass
		5809.5	2.86	4.56	6.51	<=29.89	Pass

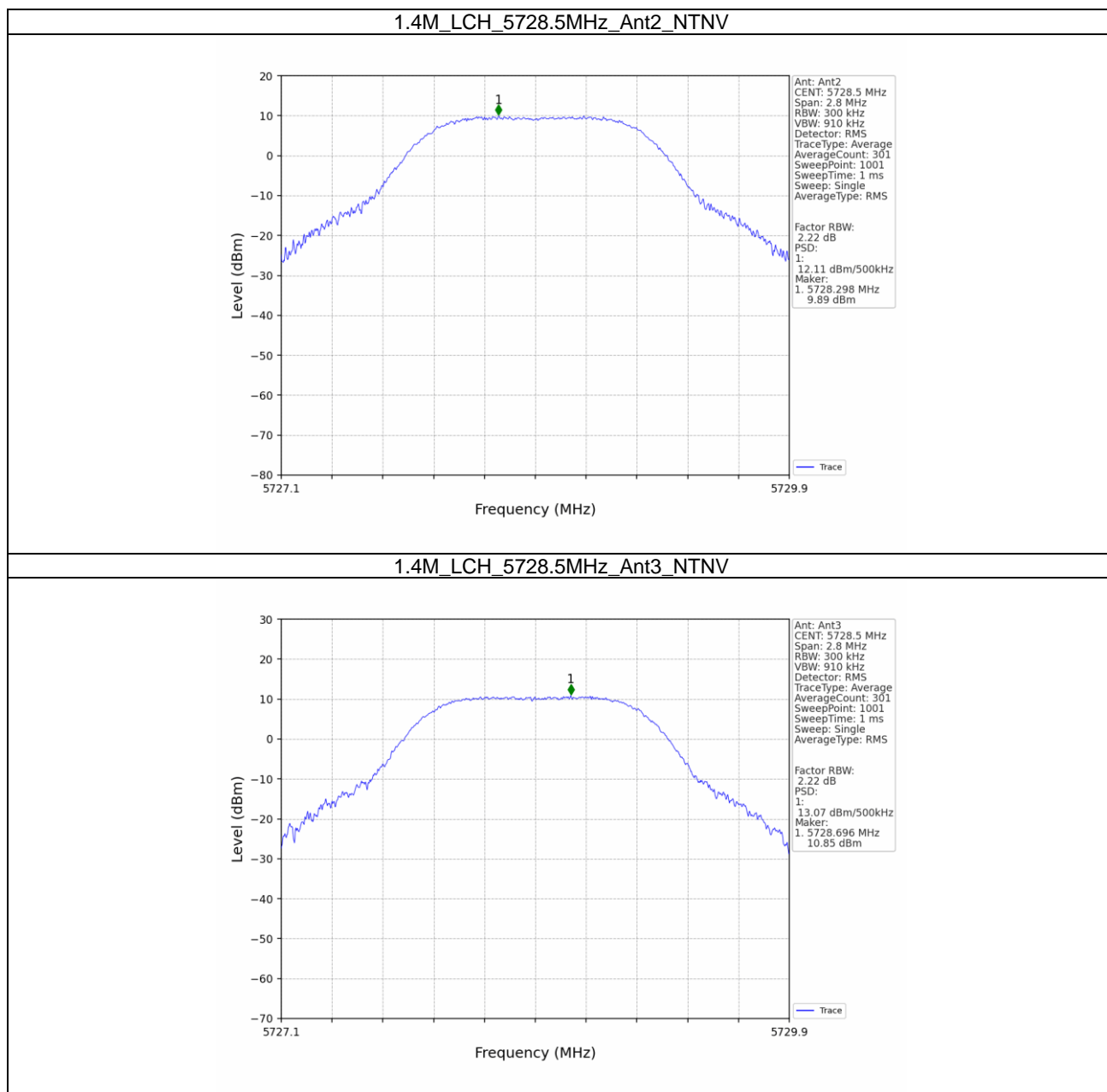
Note1: Antenna Gain: Ant2: 3.10dBi; Ant3: 2.51dBi;

Note2: Directional Gain: Band3: 6.11dBi



### 4.2 Test Graph

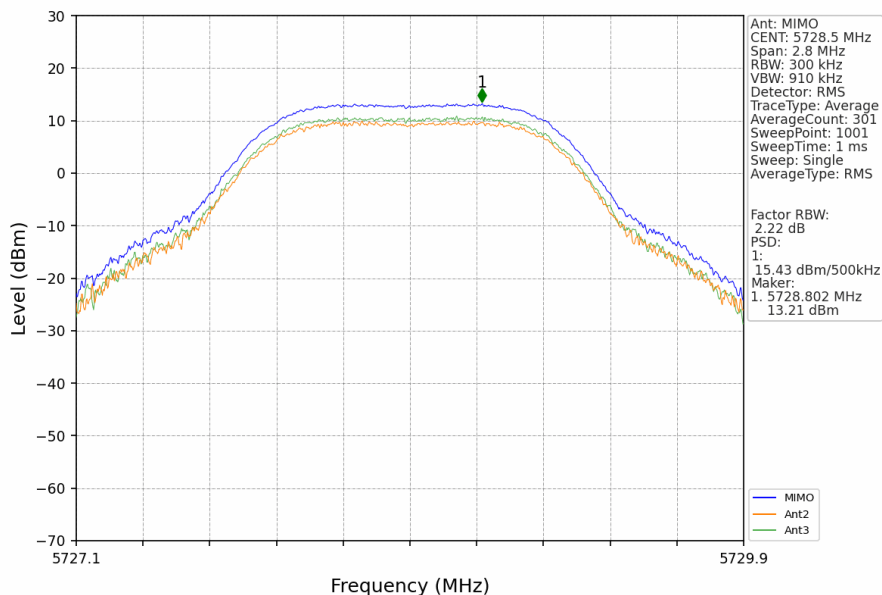
#### 4.2.1 PSD-Band3



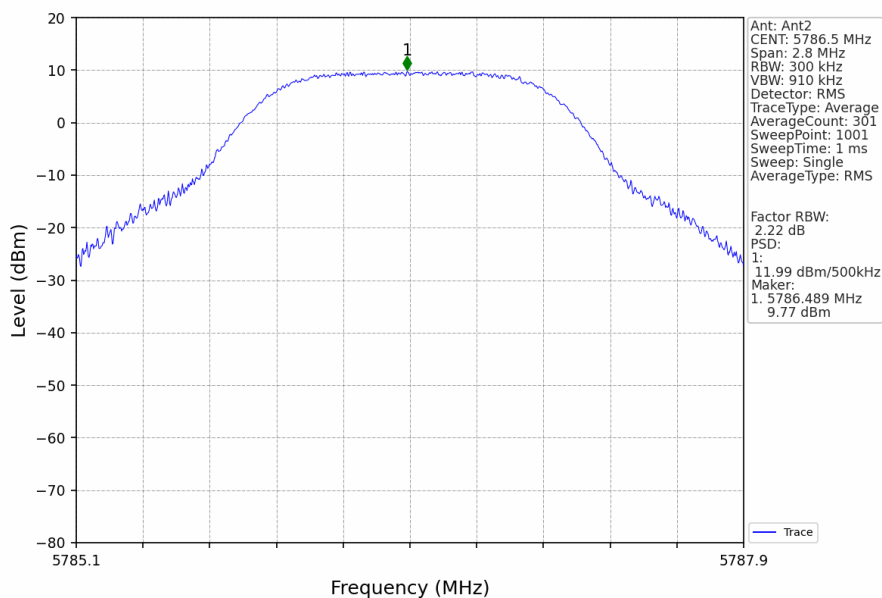
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1.4M\_LCH\_5728.5MHz\_MIMO\_NTNV



1.4M\_MCH\_5786.5MHz\_Ant2\_NTNV



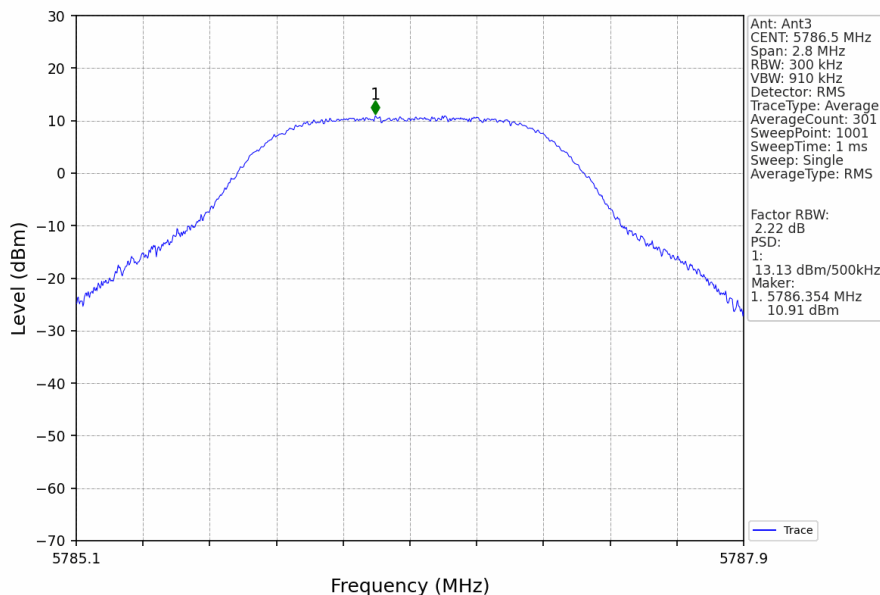
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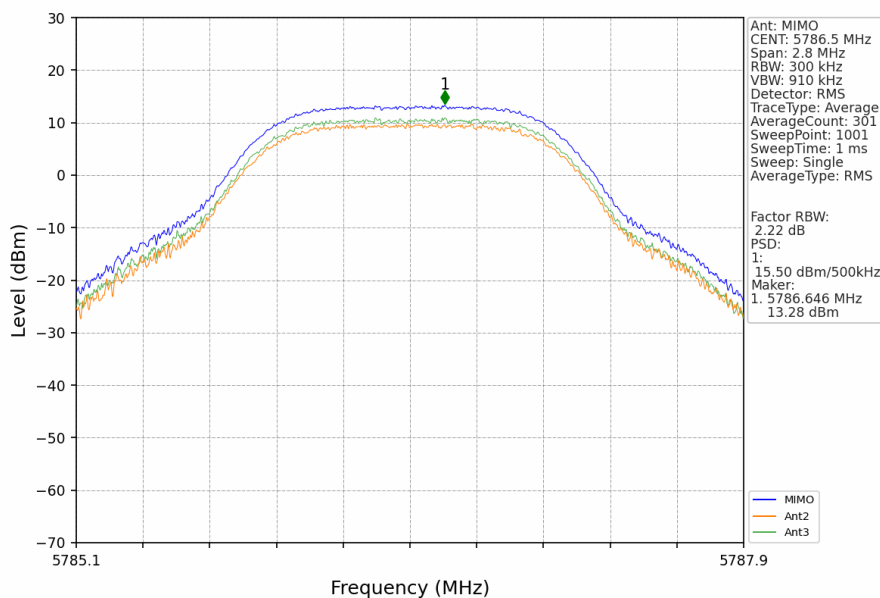
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1.4M\_MCH\_5786.5MHz\_Ant3\_NTNV



1.4M\_MCH\_5786.5MHz\_MIMO\_NTNV



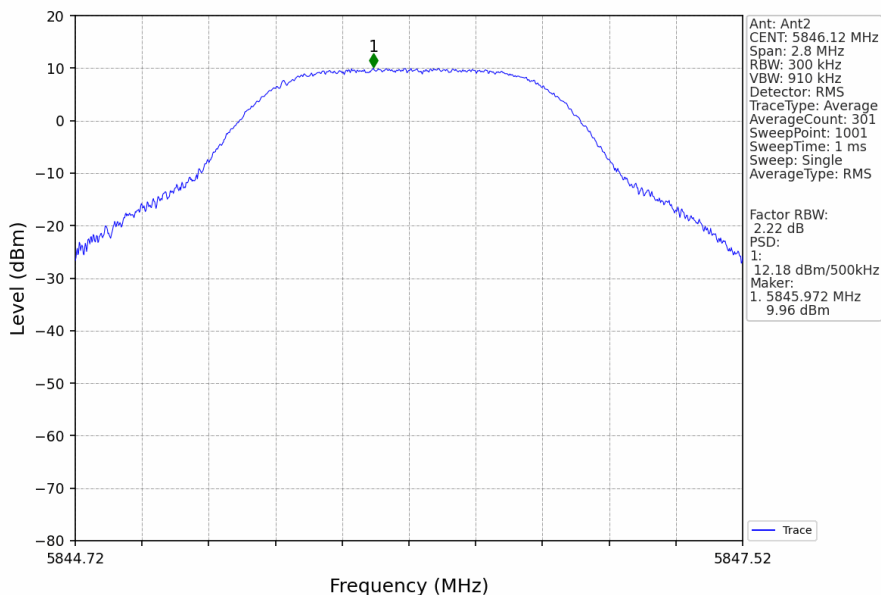
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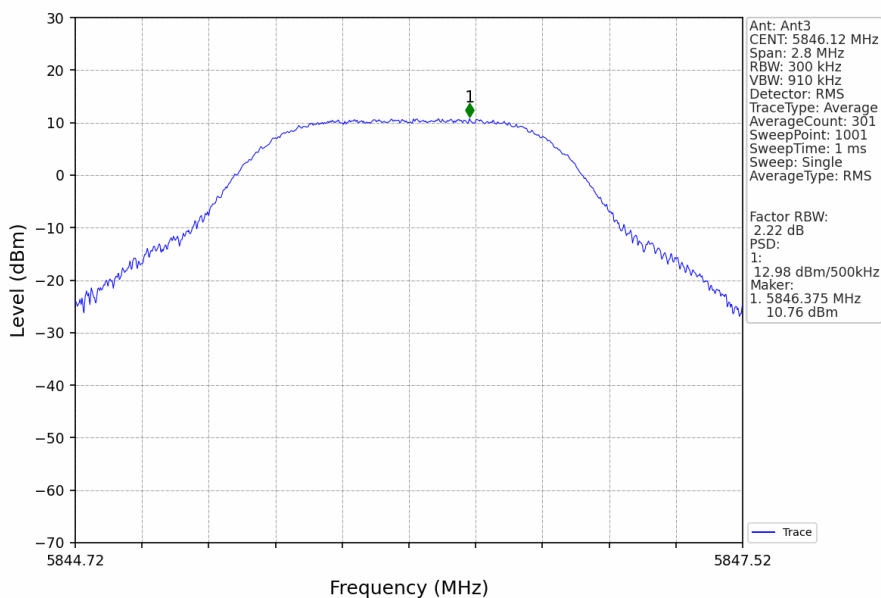
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1.4M\_HCH\_5846.12MHz\_Ant2\_NTNV

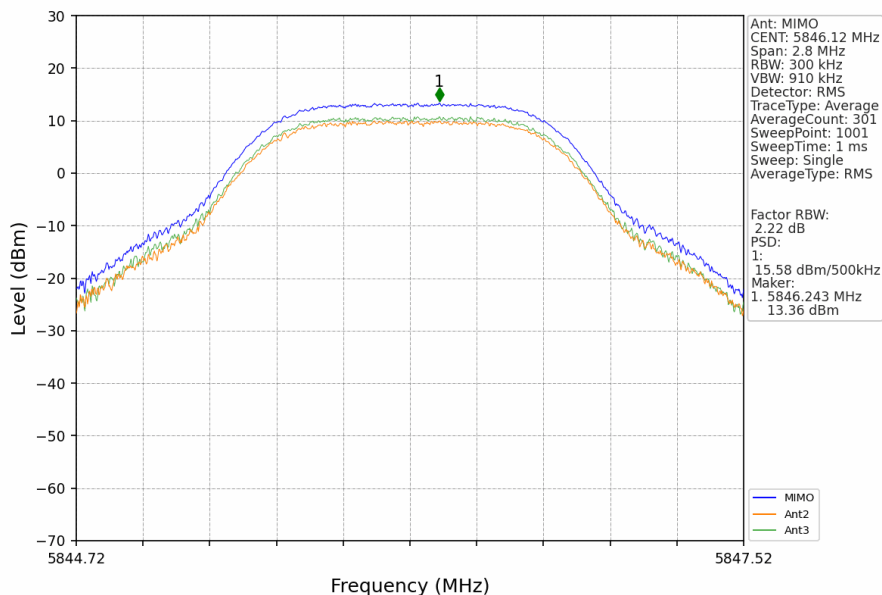


1.4M\_HCH\_5846.12MHz\_Ant3\_NTNV

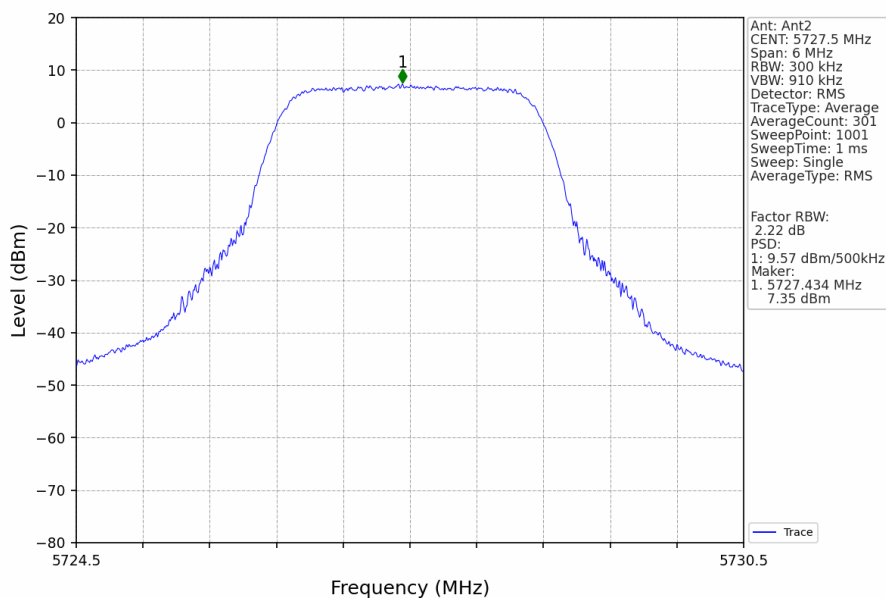




1.4M\_HCH\_5846.12MHz\_MIMO\_NTNV



3M\_LCH\_5727.5MHz\_Ant2\_NTNV



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