

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
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			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
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				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
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			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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			-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
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			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
			-10	52.22	5755.500	5725 to 5850	Pass
			0	52.22	5755.500	5725 to 5850	Pass
			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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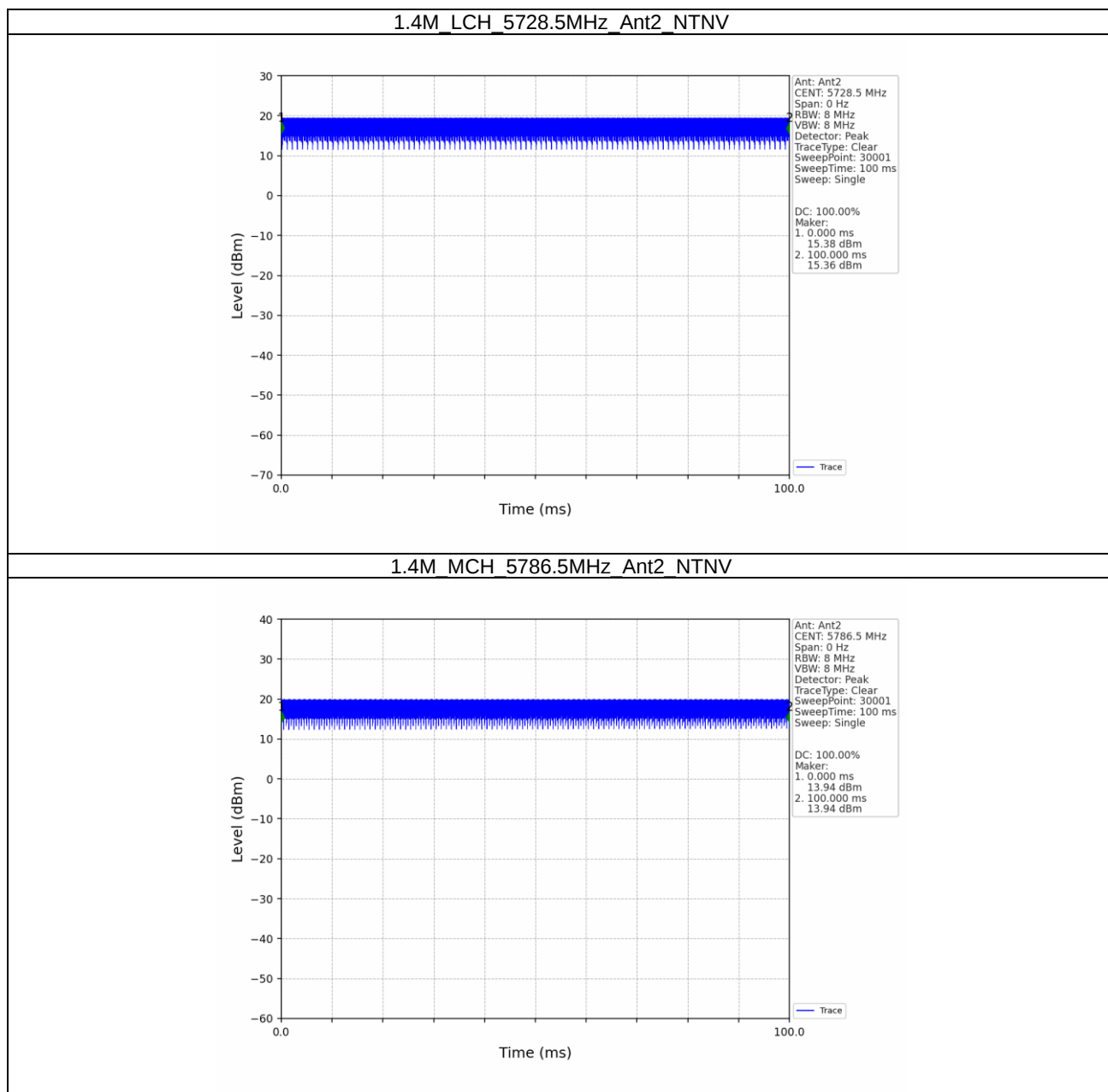
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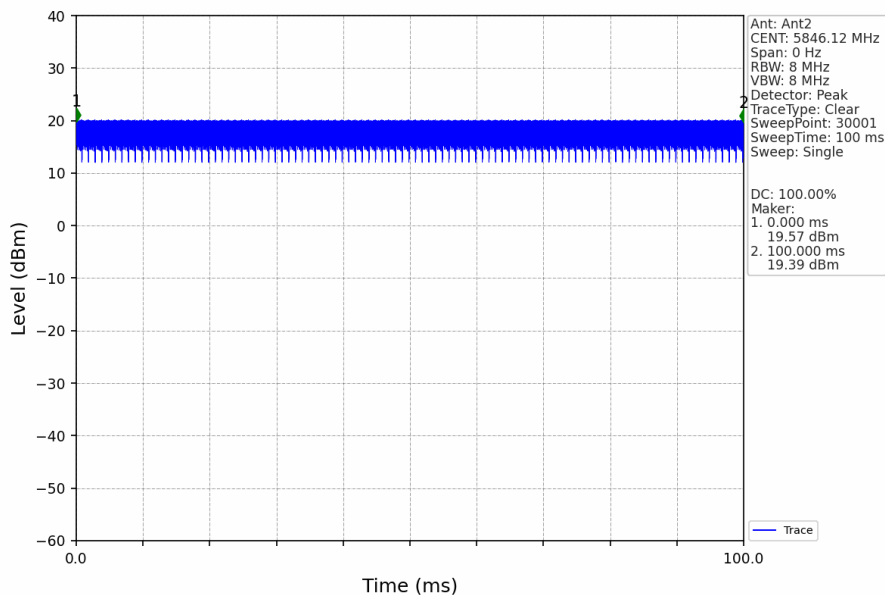
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1.2 Test Graph

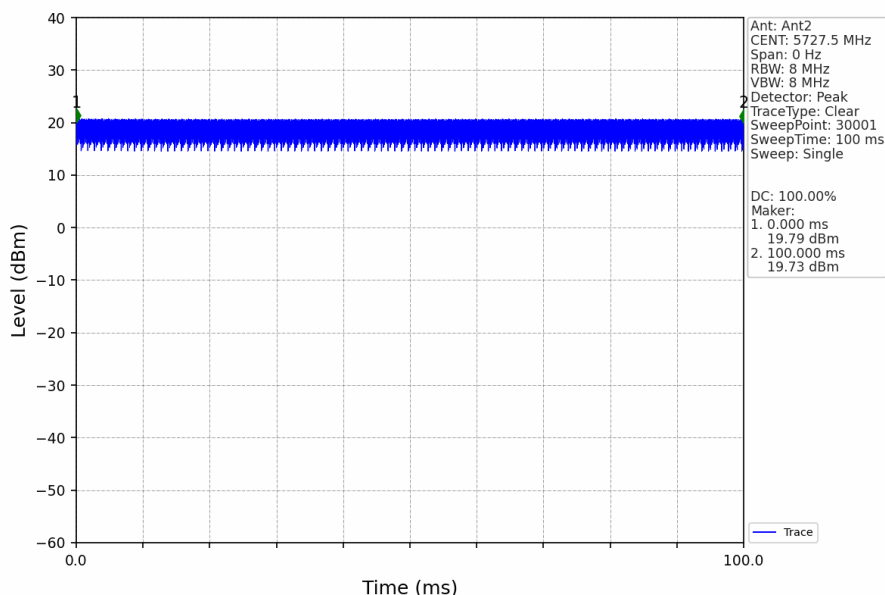
1.2.1 Ant2



1.4M HCH 5846.12MHz Ant2 NTN



3M LCH 5727.5MHz Ant2 NTN



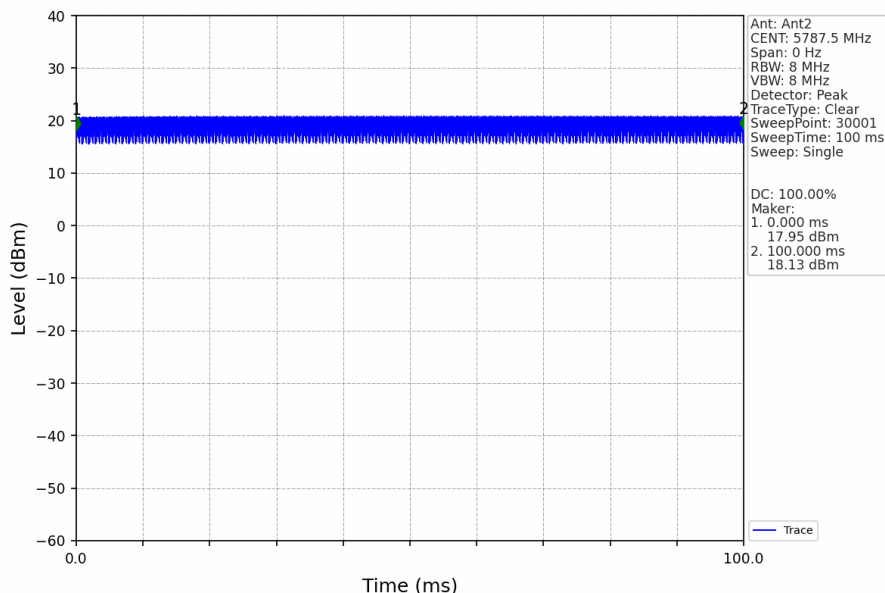
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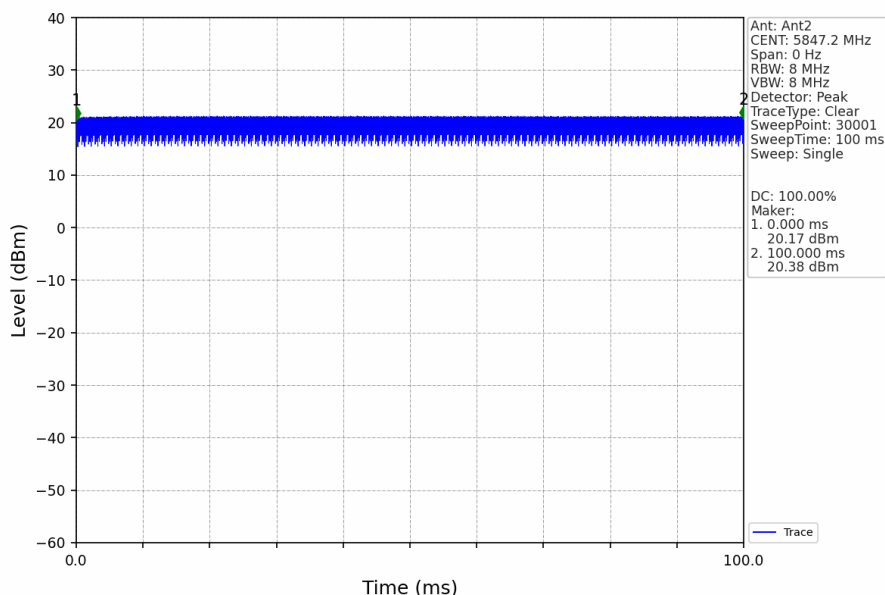
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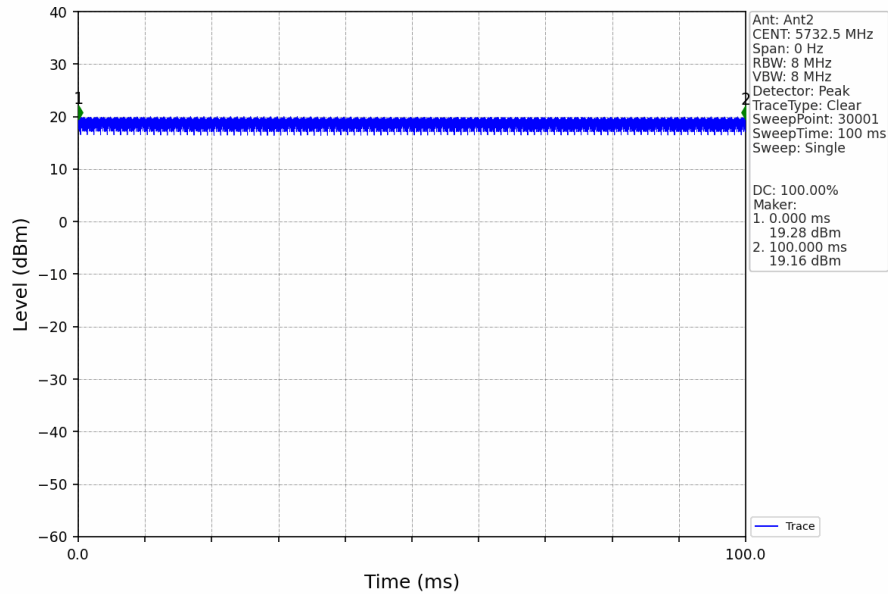
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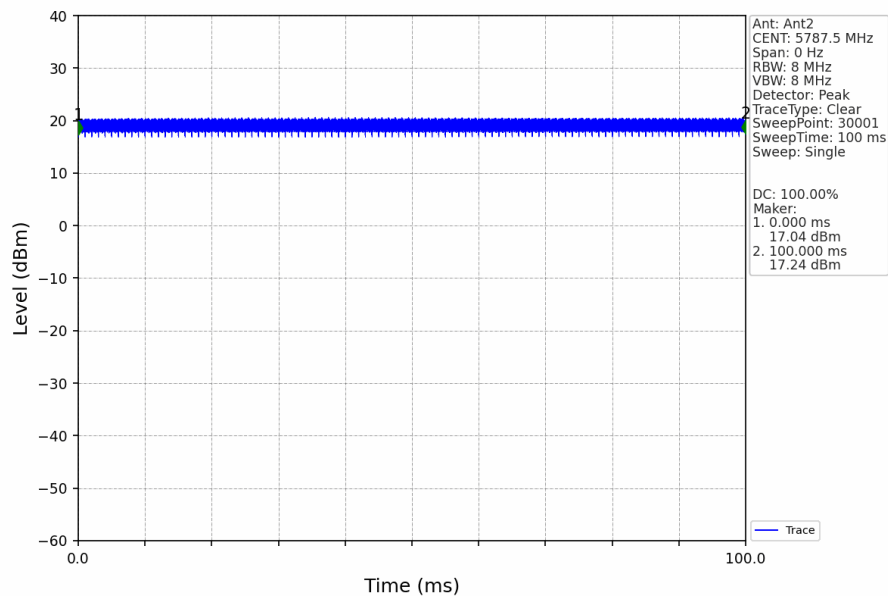
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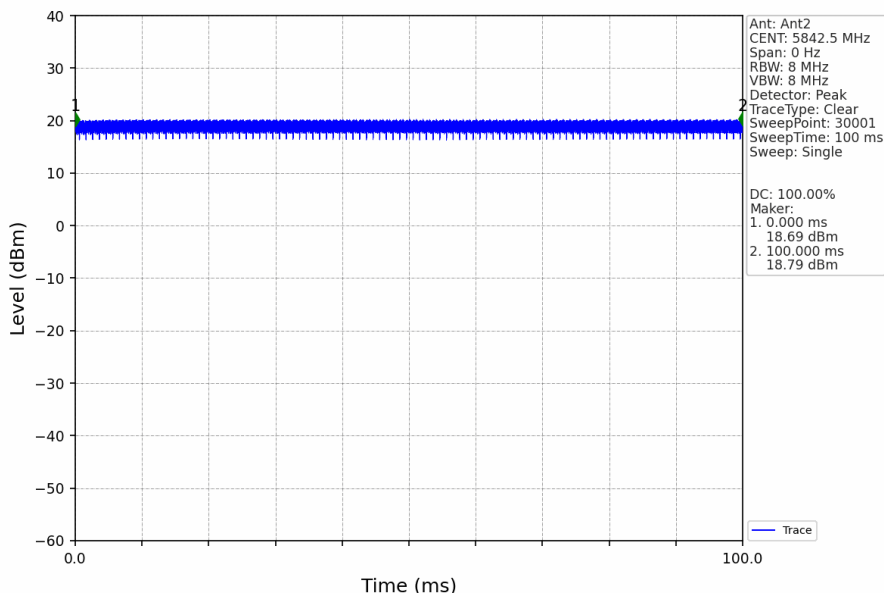
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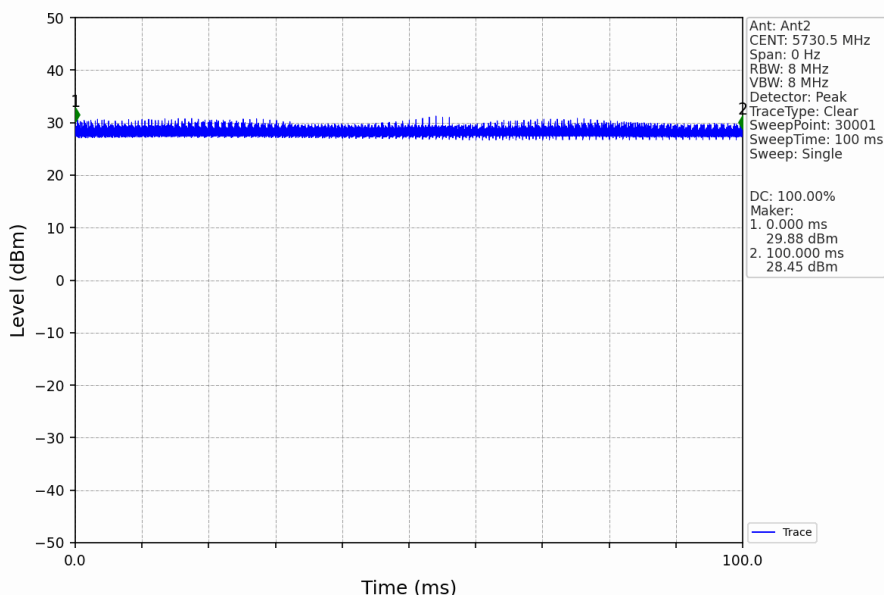
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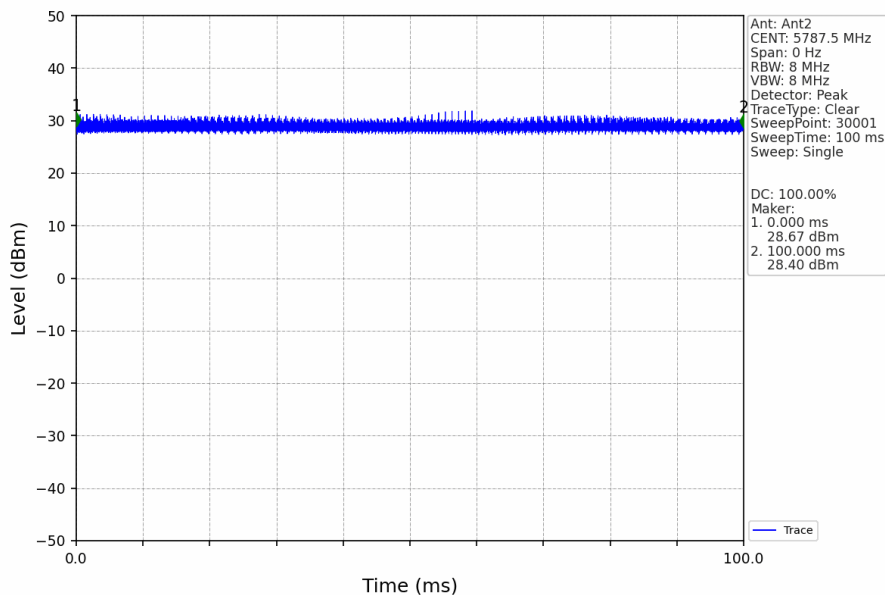
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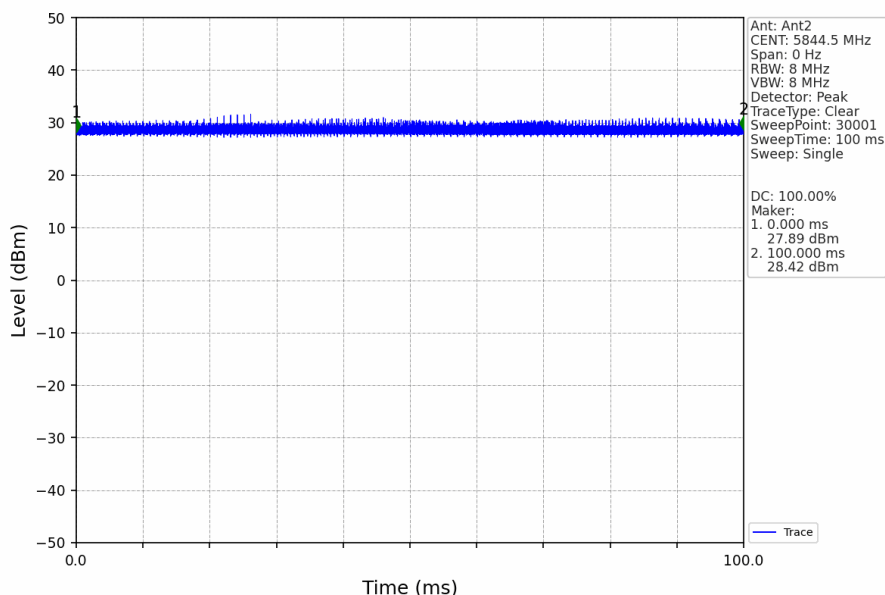
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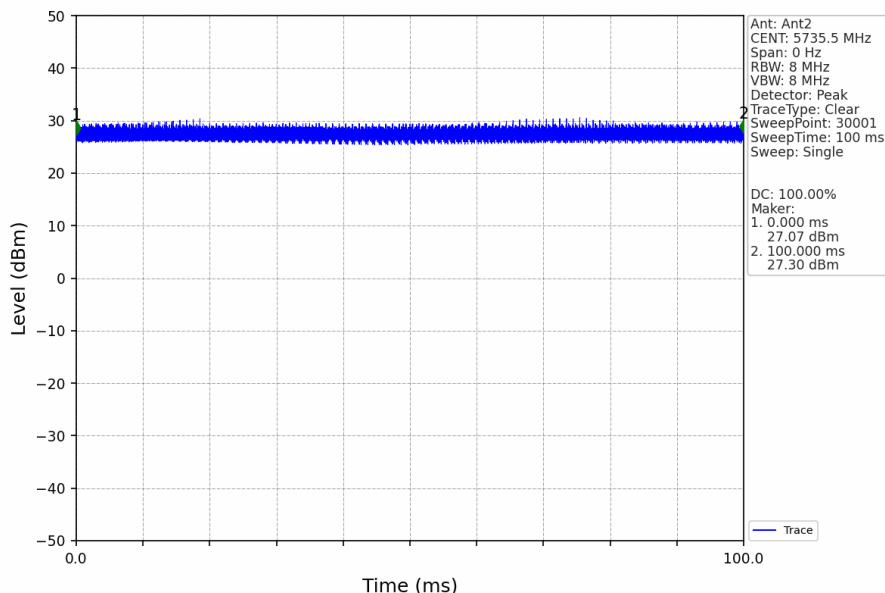
10M MCH 5787.5MHz Ant2 NTN



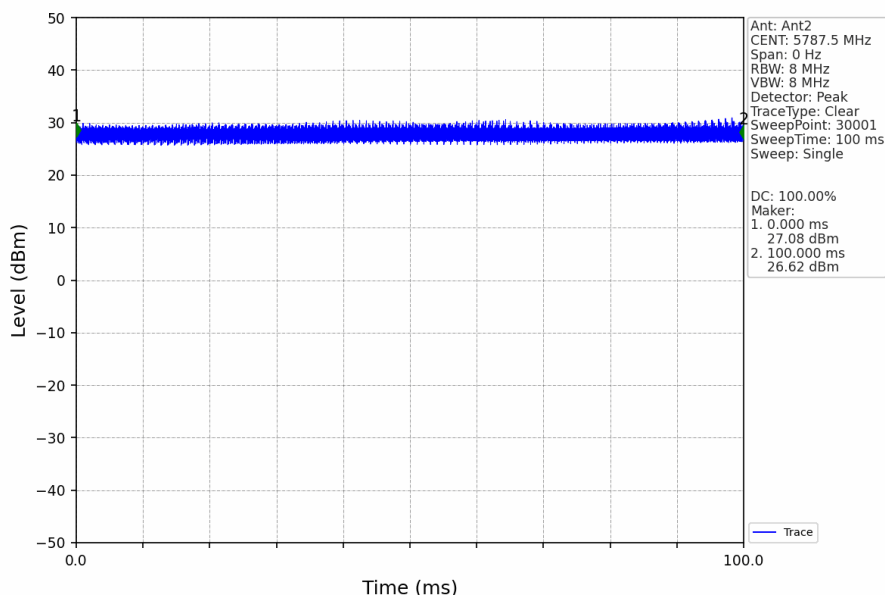
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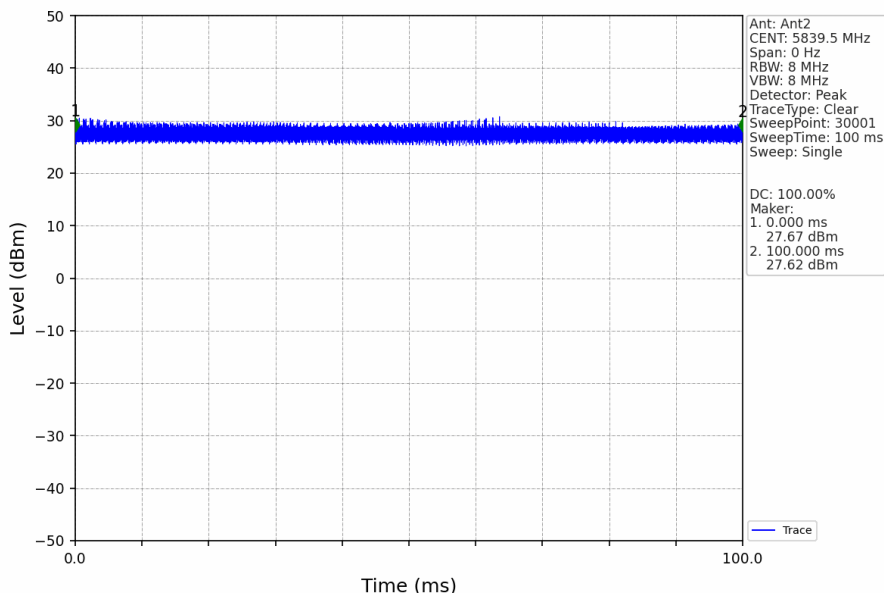
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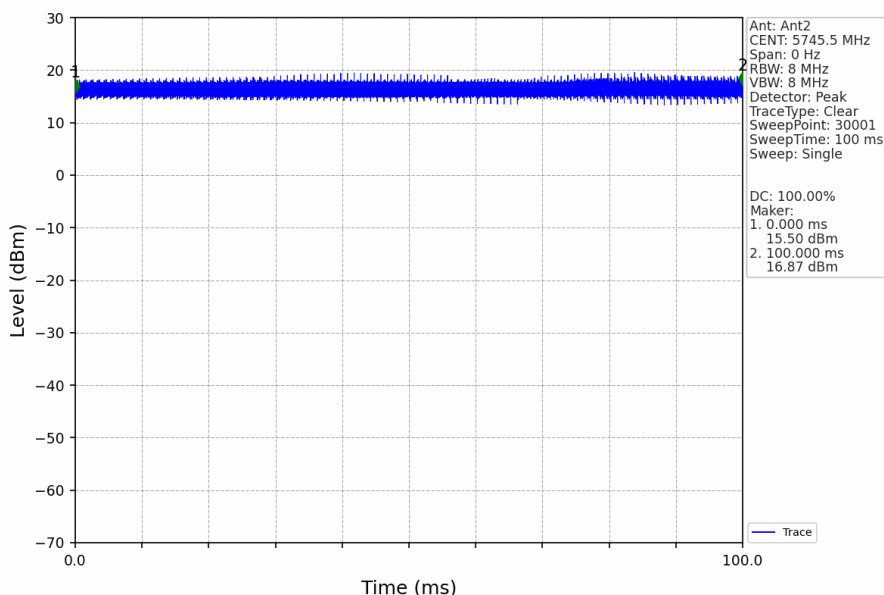
20M MCH 5787.5MHz Ant2 NTN



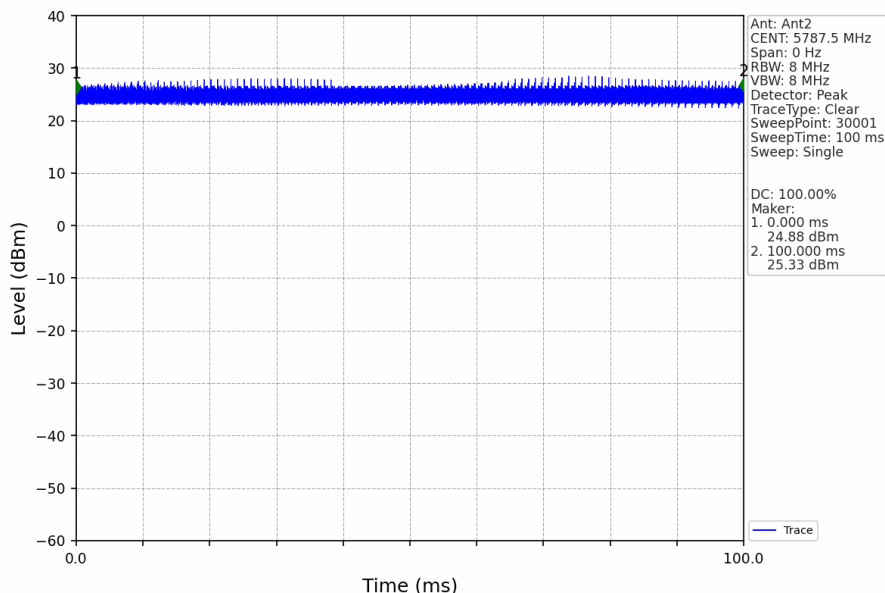
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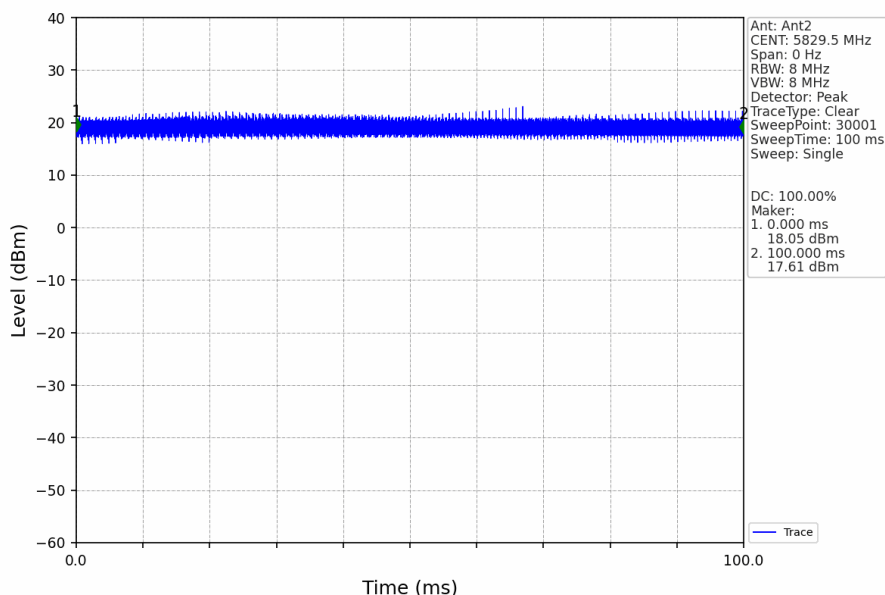
40M LCH 5745.5MHz Ant2 NTN



40M MCH 5787.5MHz Ant2 NTN



40M HCH 5829.5MHz Ant2 NTN



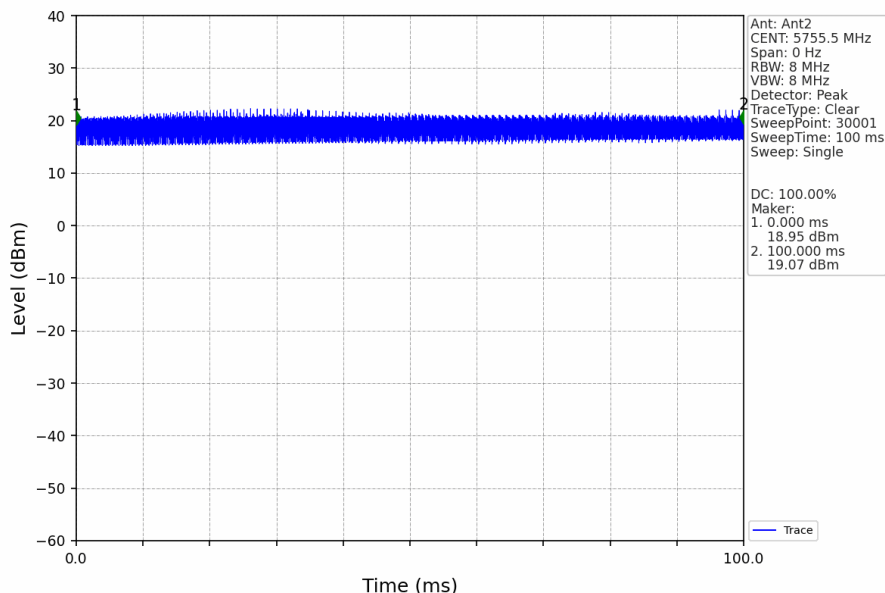
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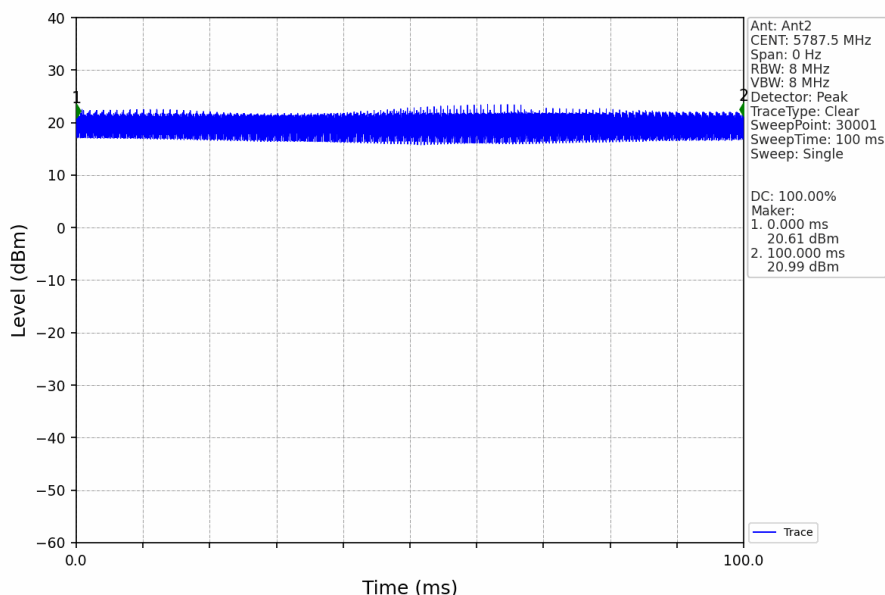
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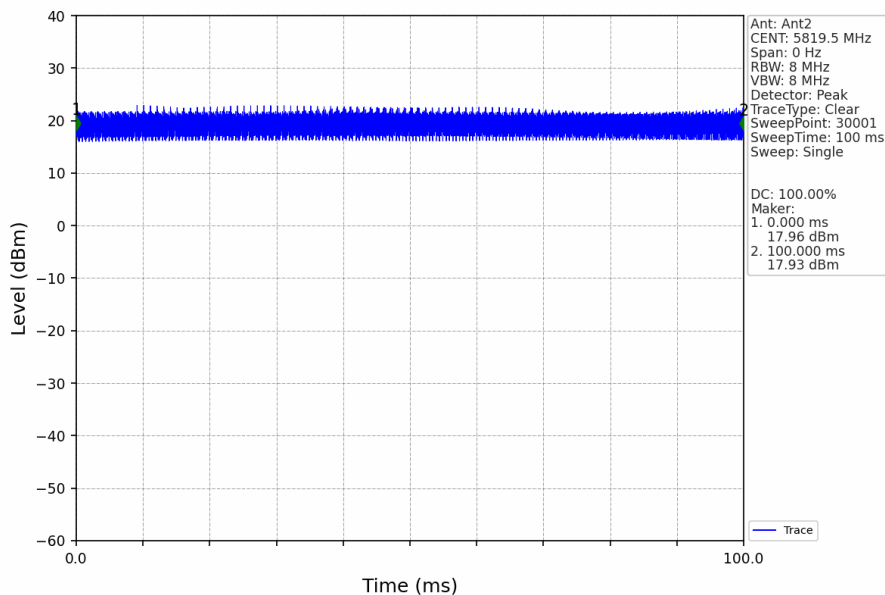
60M LCH 5755.5MHz Ant2 NTN



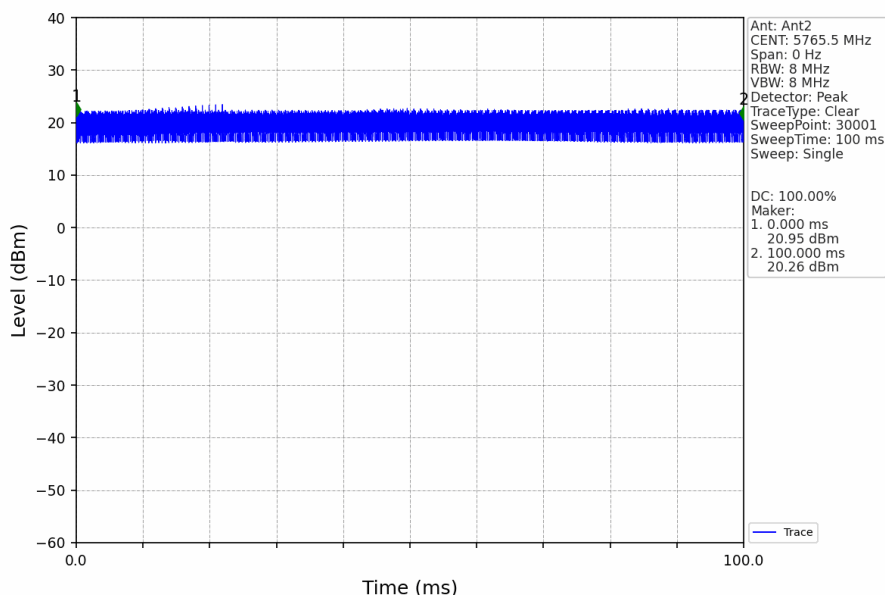
60M MCH 5787.5MHz Ant2 NTN



60M HCH 5819.5MHz Ant2 NTN



80M LCH 5765.5MHz Ant2 NTN



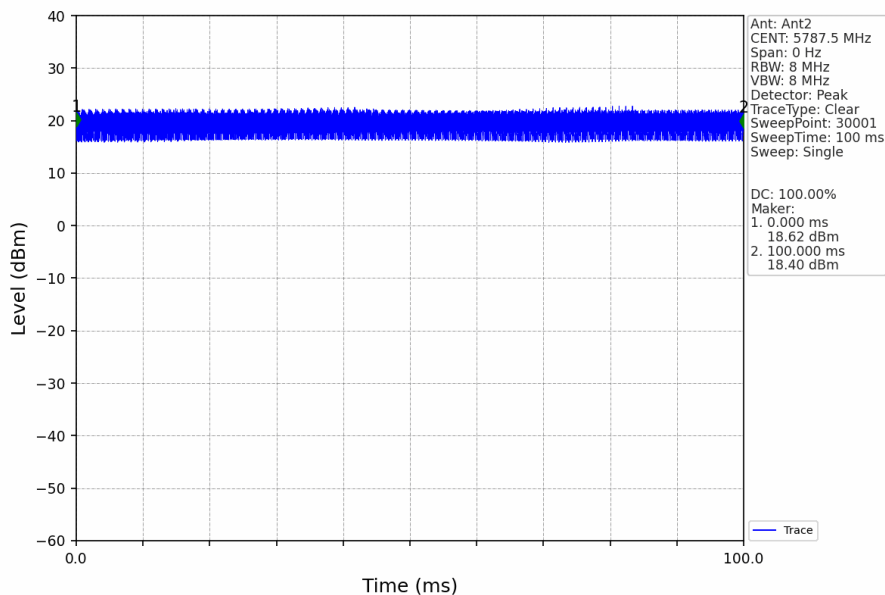
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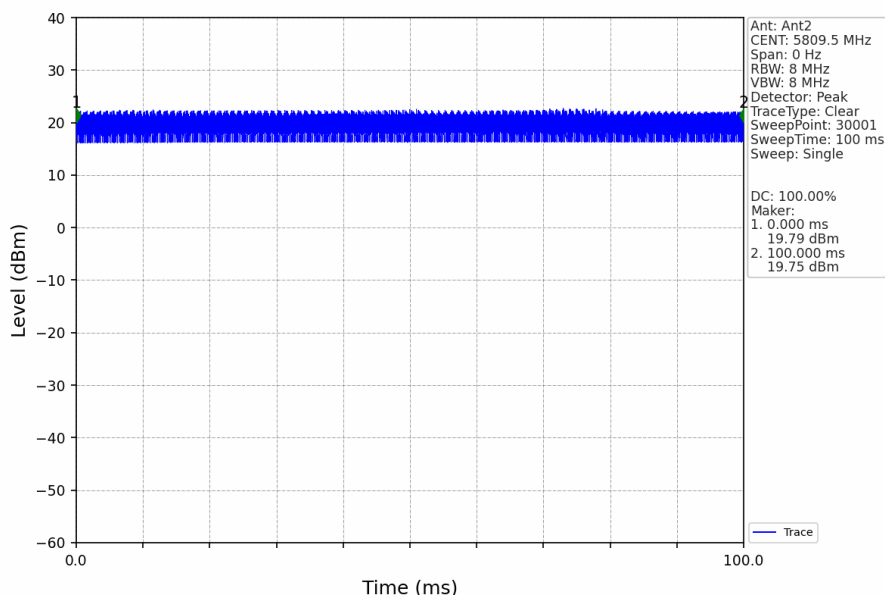
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80M MCH 5787.5MHz Ant2 NTN



80M HCH 5809.5MHz Ant2 NTN



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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	≥ 0.5	Pass
		5786.5	2	1.103	≥ 0.5	Pass
		5846.12	2	1.101	≥ 0.5	Pass
3M	MIMO	5727.5	2	2.214	≥ 0.5	Pass
		5787.5	2	2.198	≥ 0.5	Pass
		5847.2	2	2.219	≥ 0.5	Pass
5M	MIMO	5732.5	2	4.405	≥ 0.5	Pass
		5787.5	2	4.394	≥ 0.5	Pass
		5842.5	2	4.396	≥ 0.5	Pass
10M	MIMO	5730.5	2	9.051	≥ 0.5	Pass
		5787.5	2	9.052	≥ 0.5	Pass



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200479504

Page: 171 of 238

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



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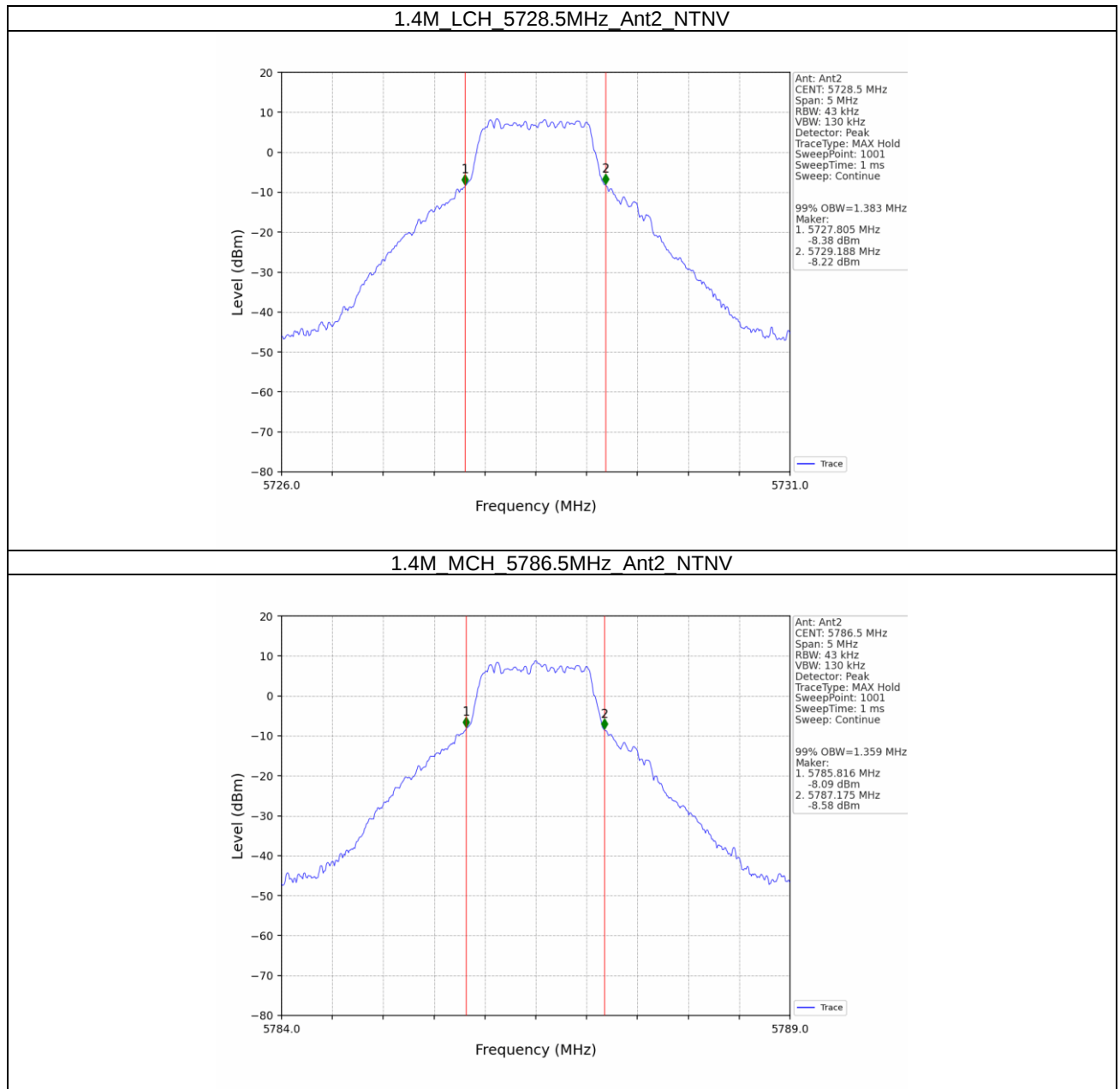
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2.2 Test Graph

2.2.1 OBW



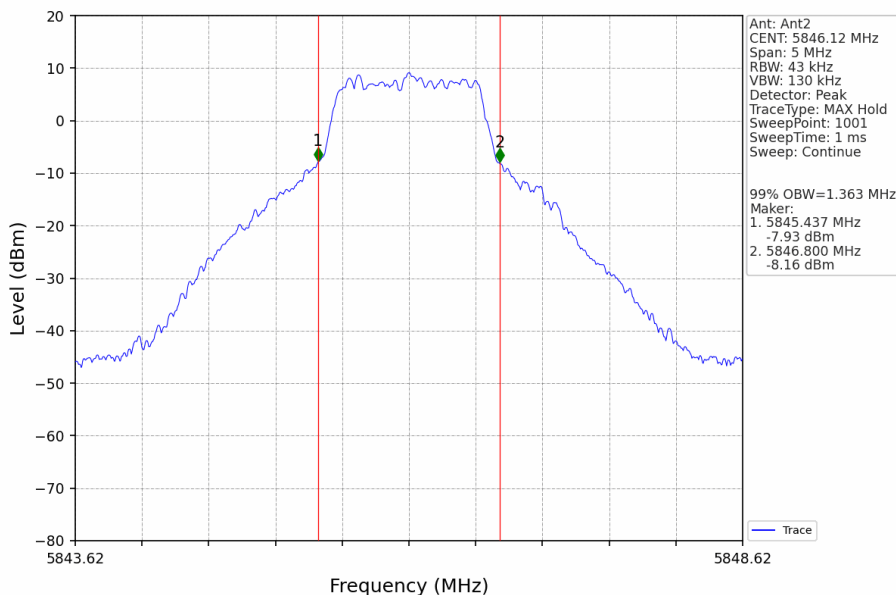
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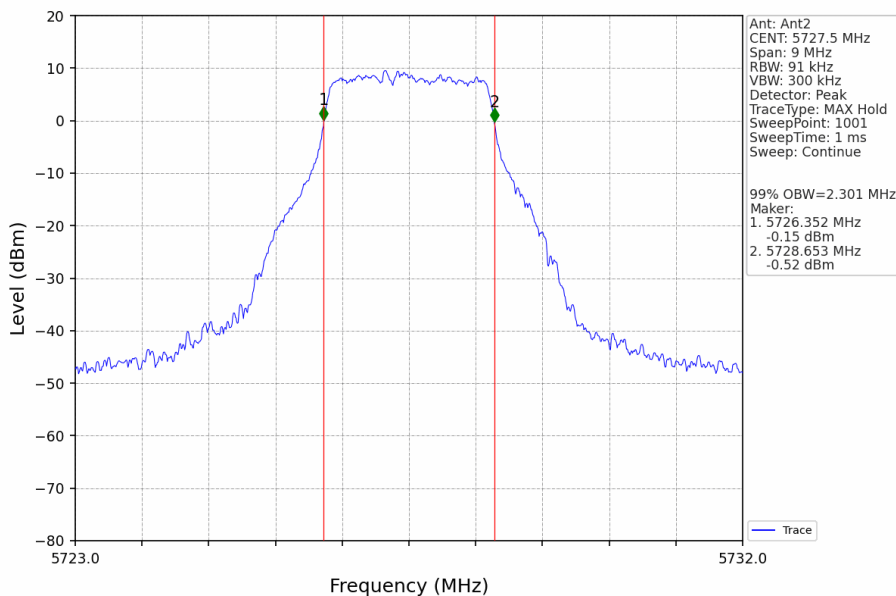
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1.4M HCH 5846.12MHz Ant2 NTNV



3M LCH 5727.5MHz Ant2 NTNV



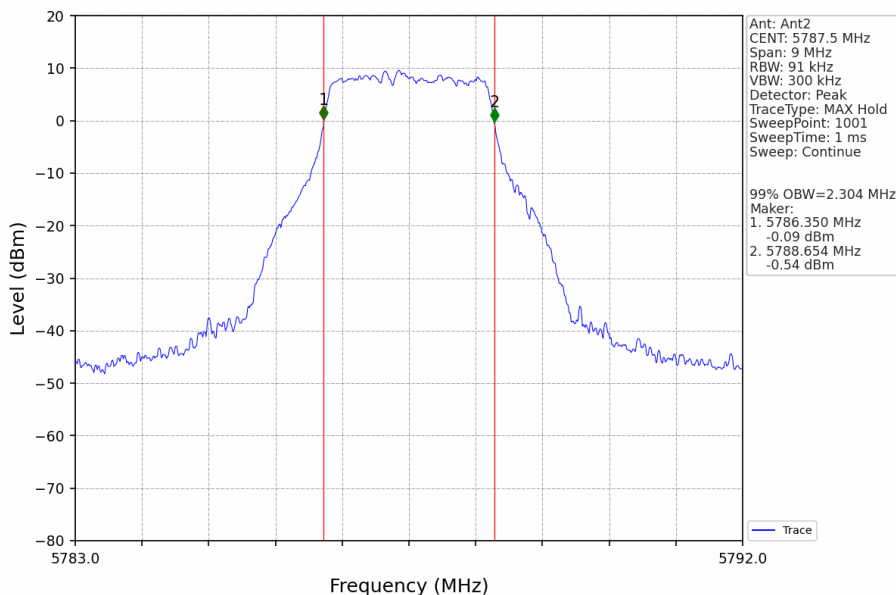
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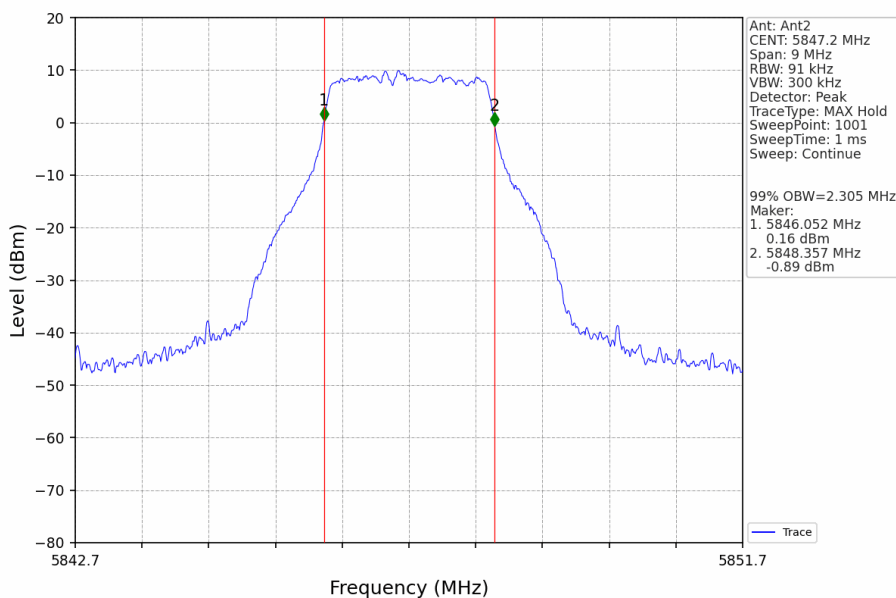
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3M MCH 5787.5MHz Ant2 NTN



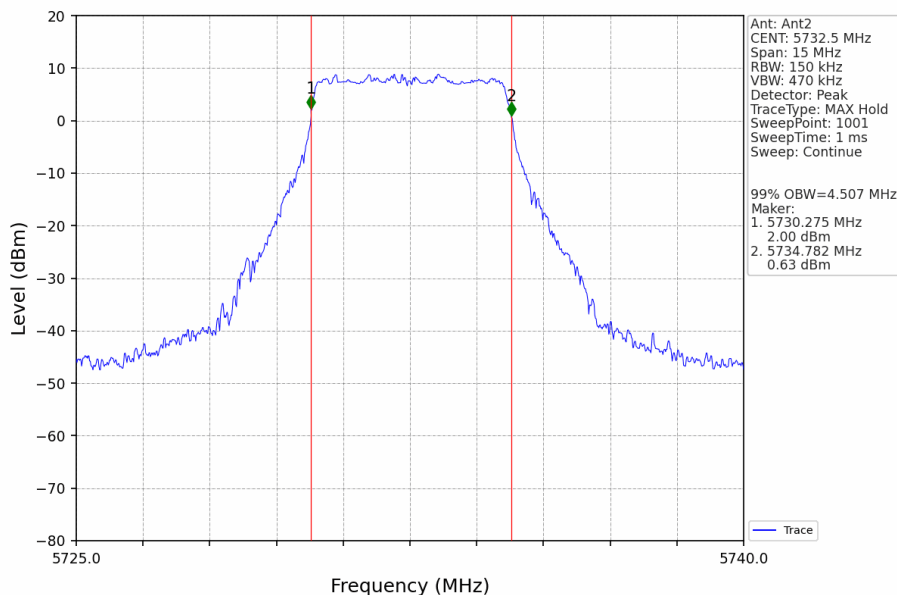
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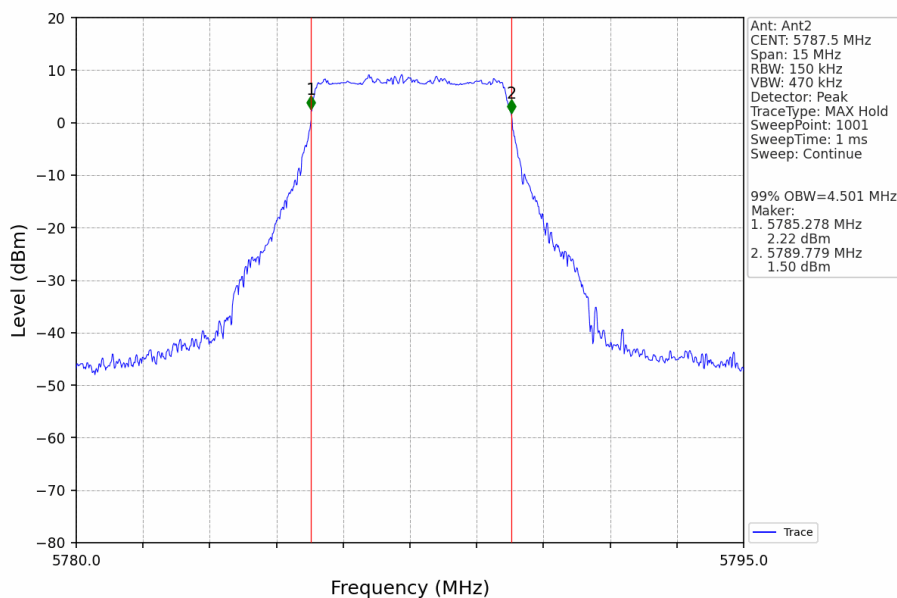
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5M LCH 5732.5MHz Ant2 NTV



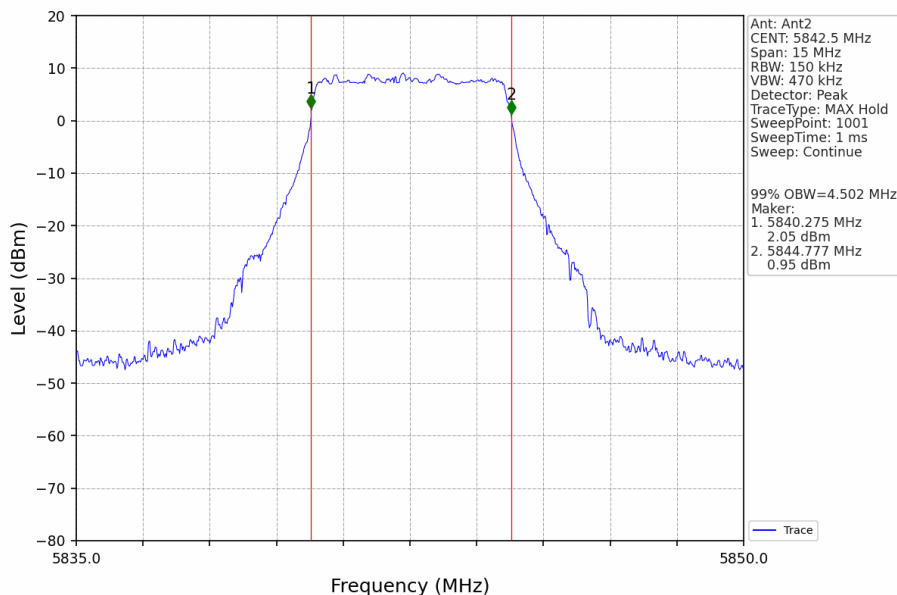
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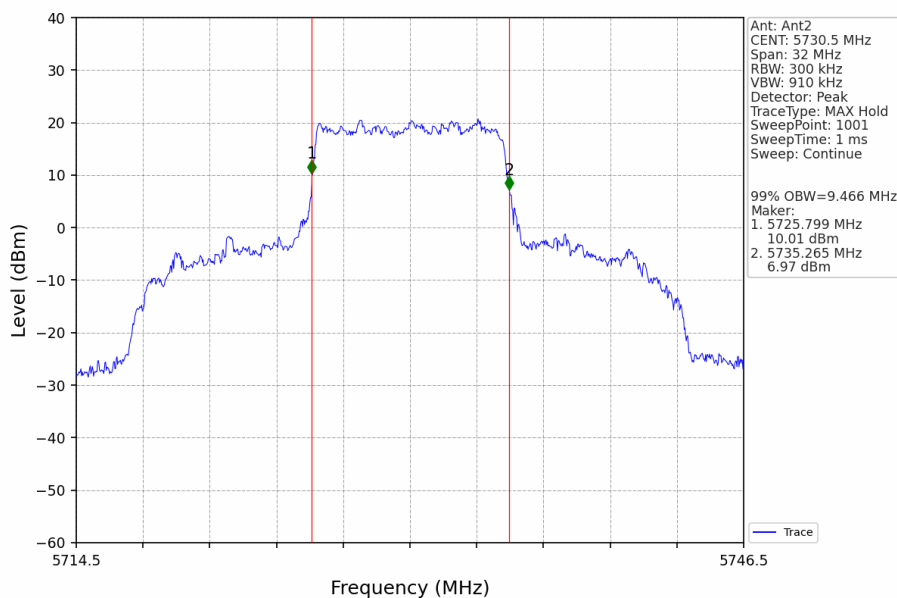
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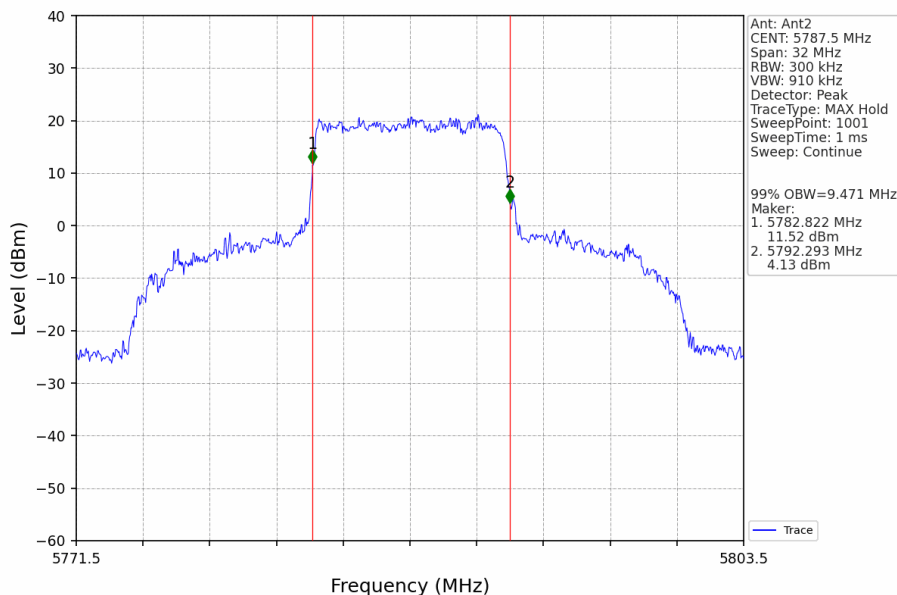
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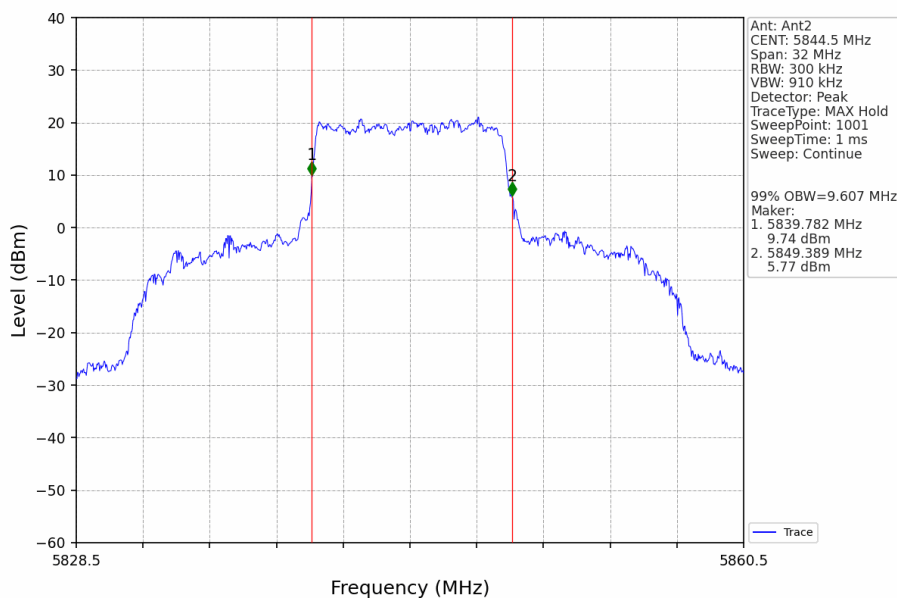
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10M MCH 5787.5MHz Ant2 NTN



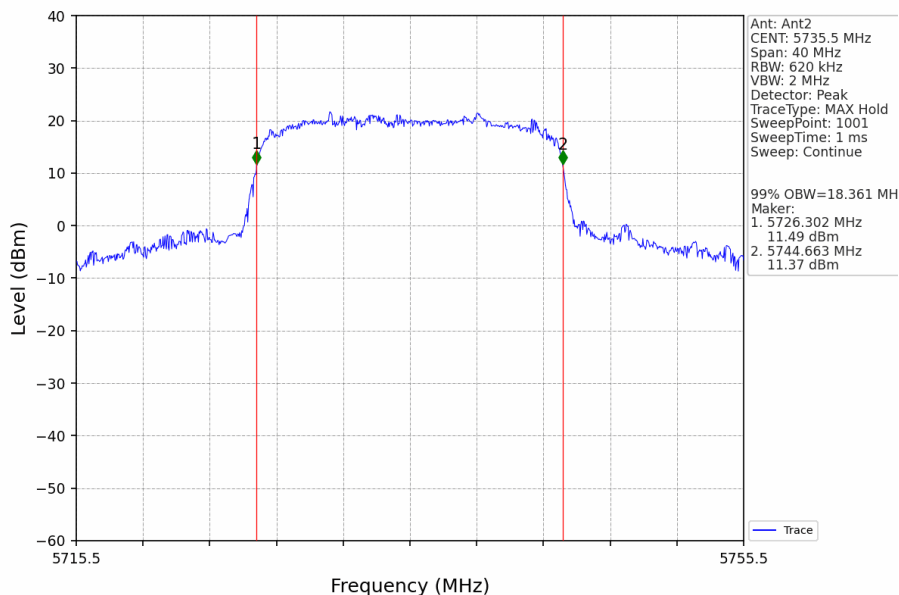
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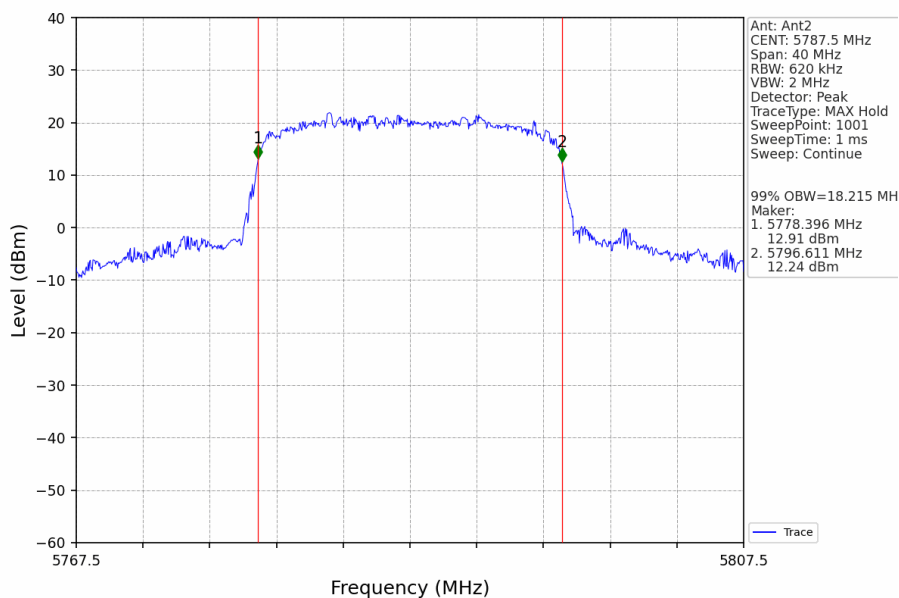
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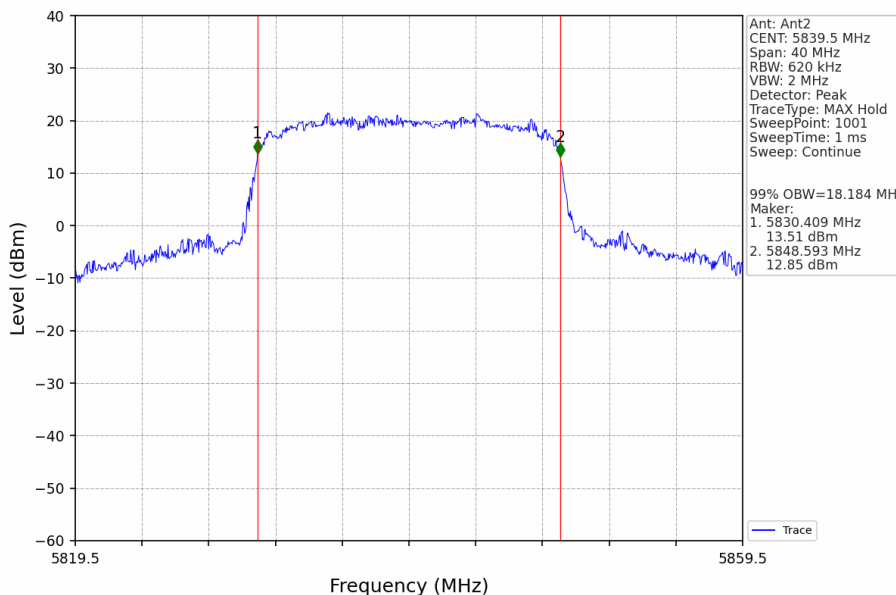
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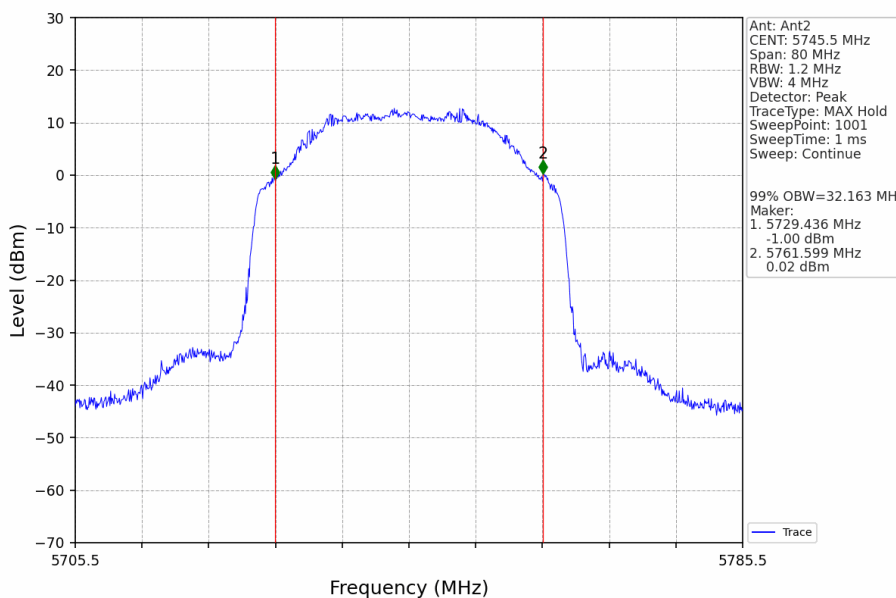
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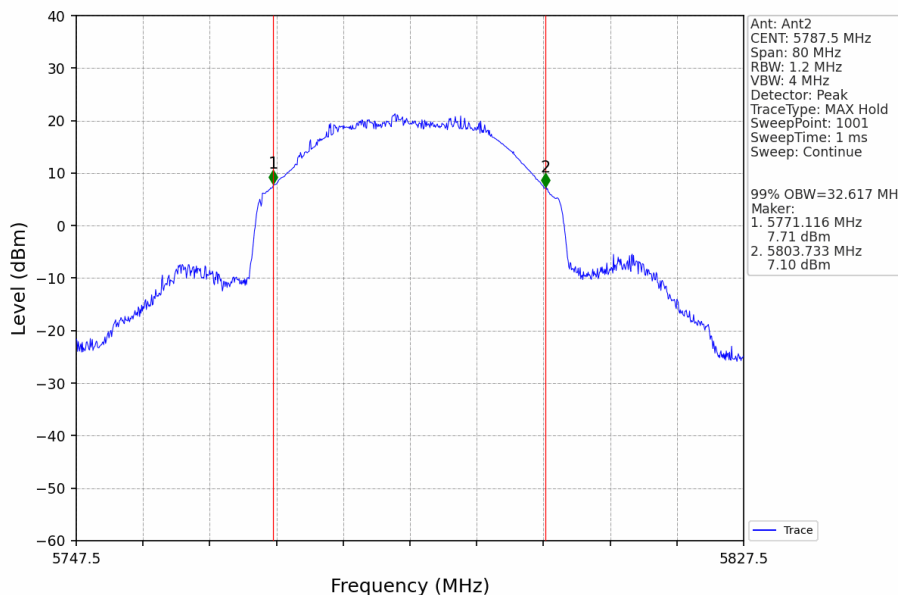
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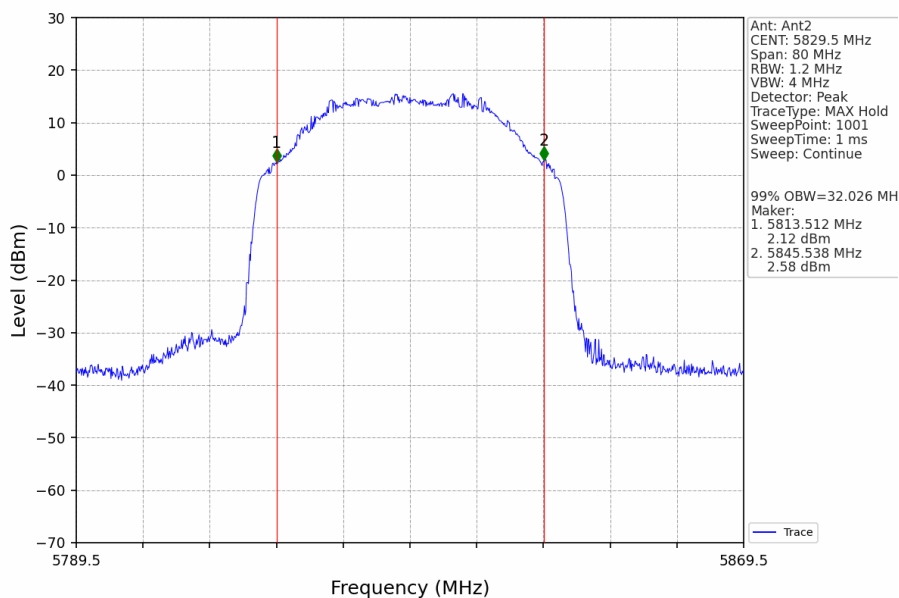
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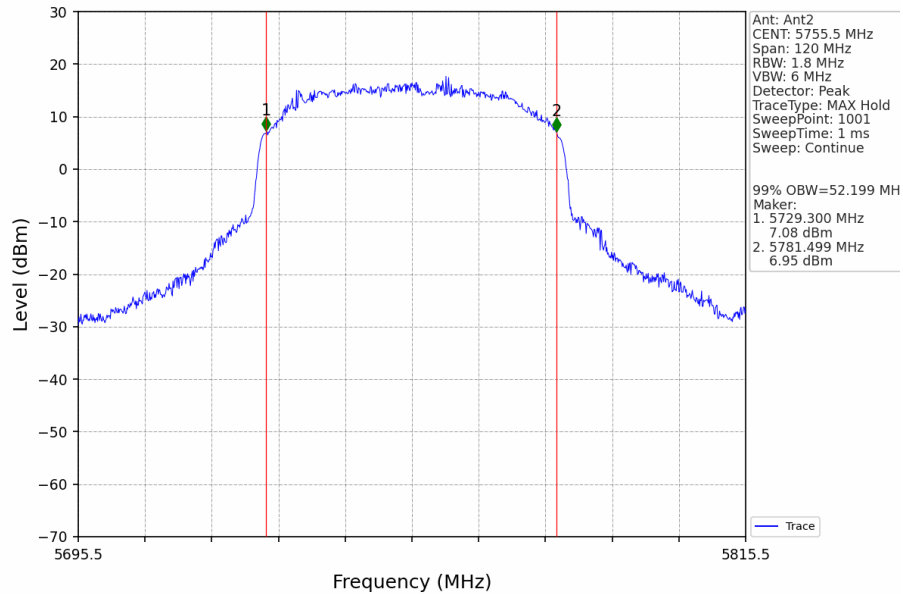
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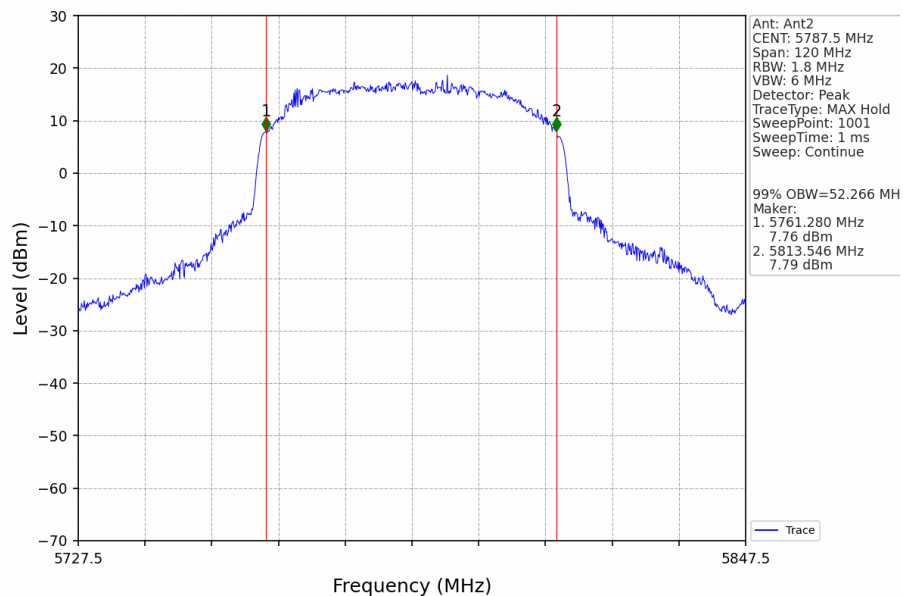
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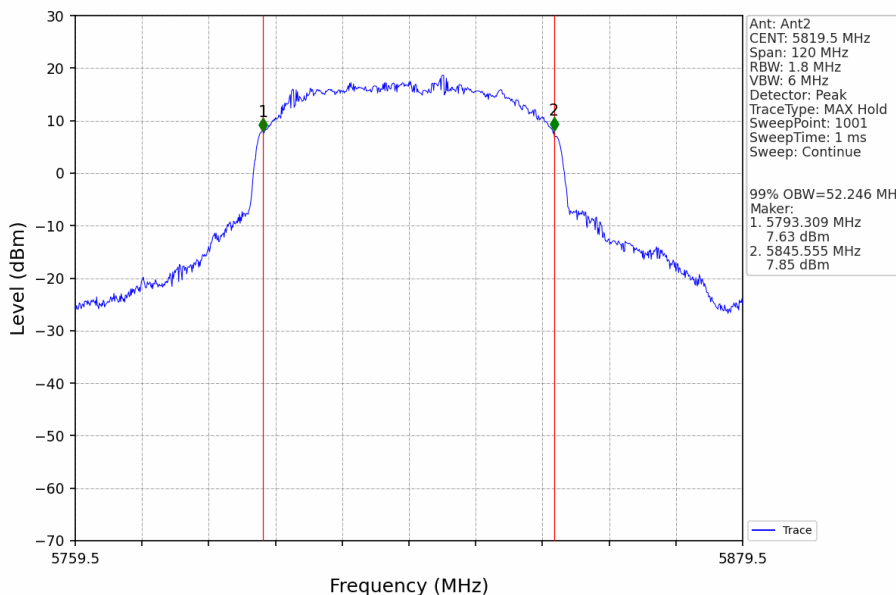
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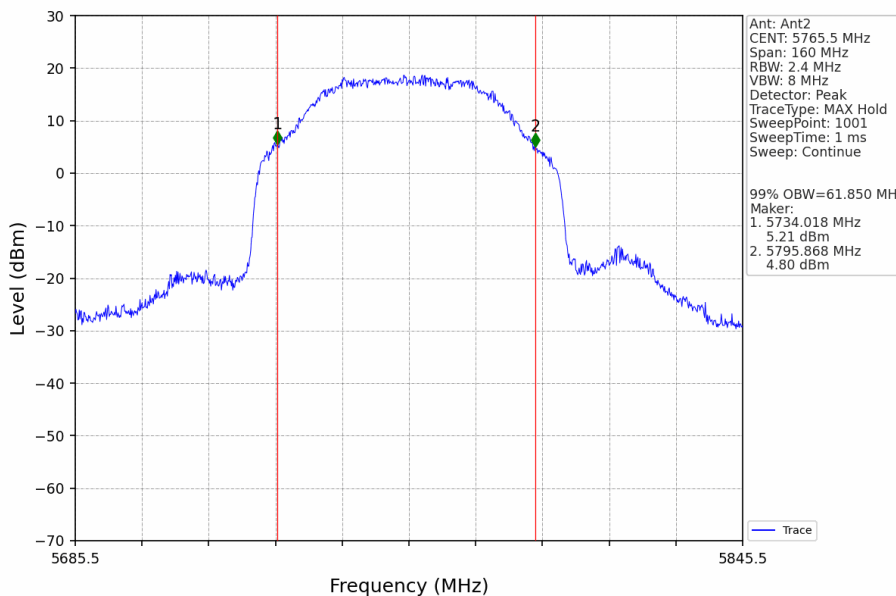
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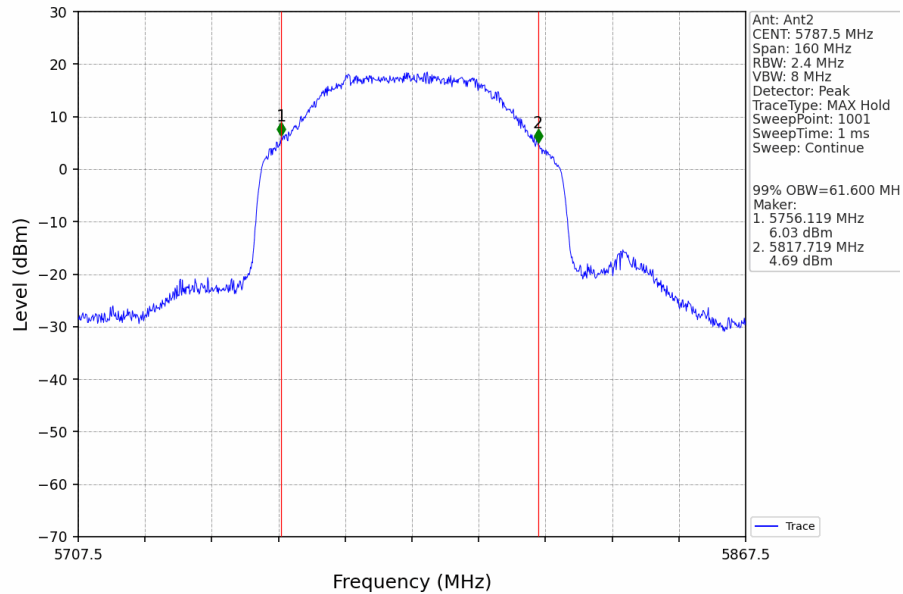
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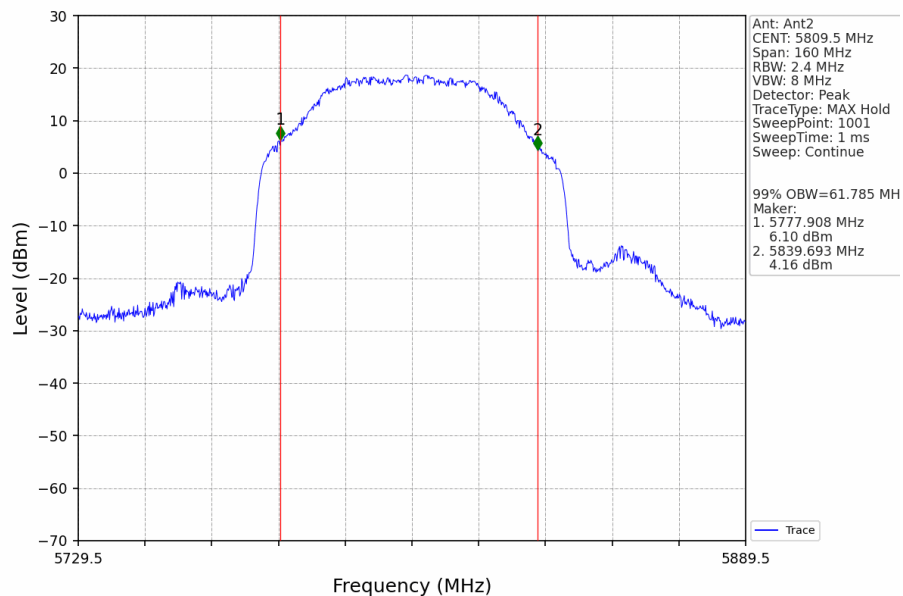
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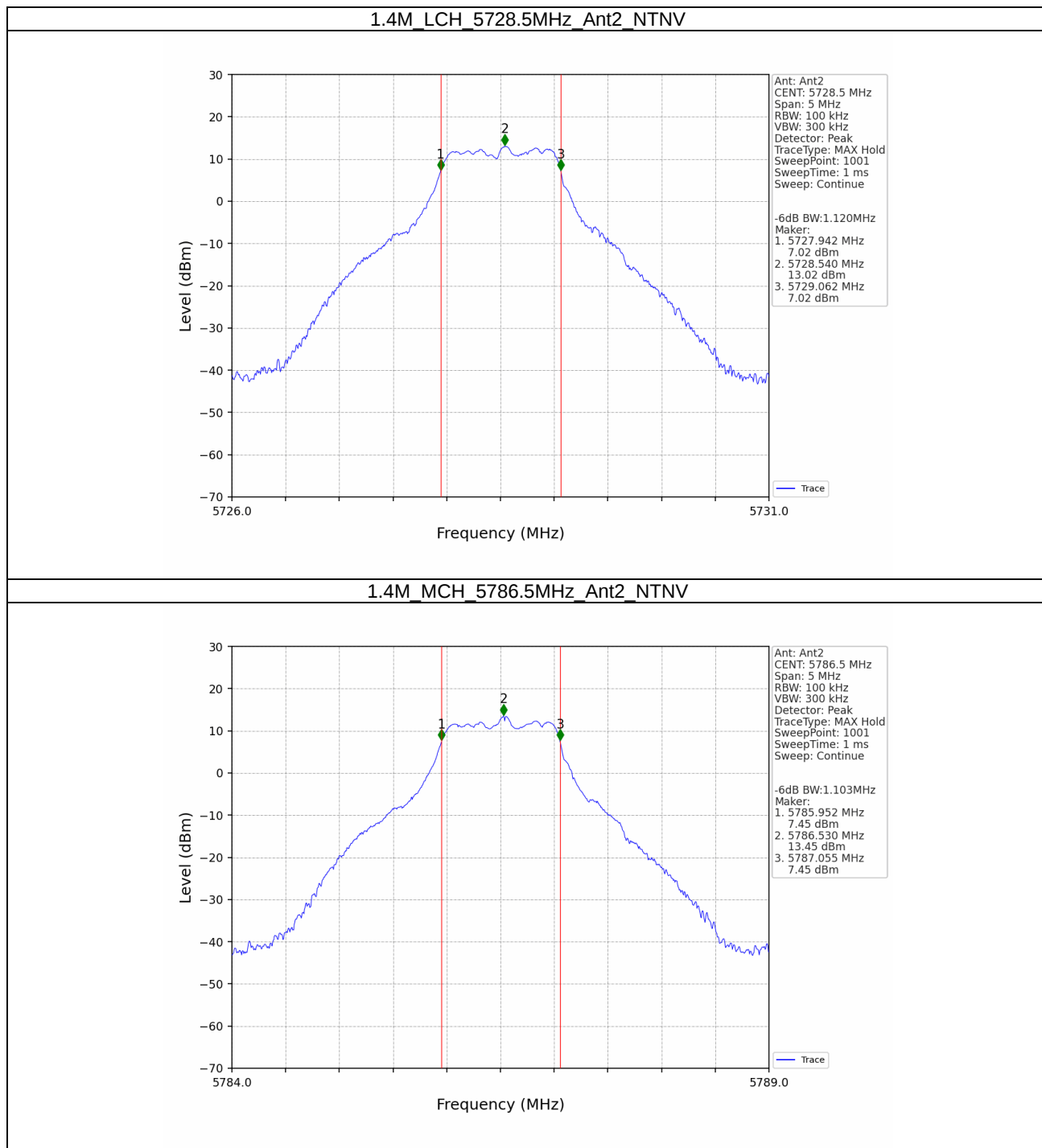
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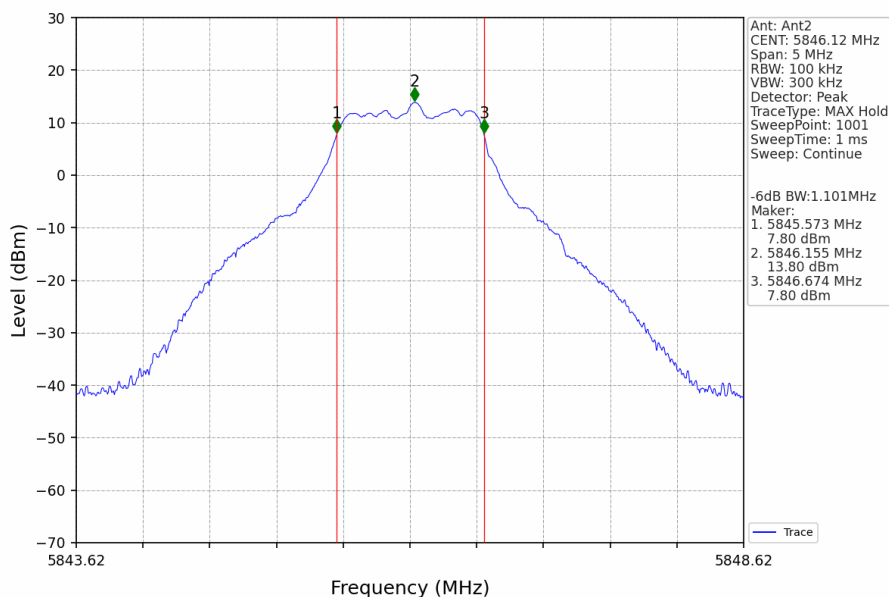
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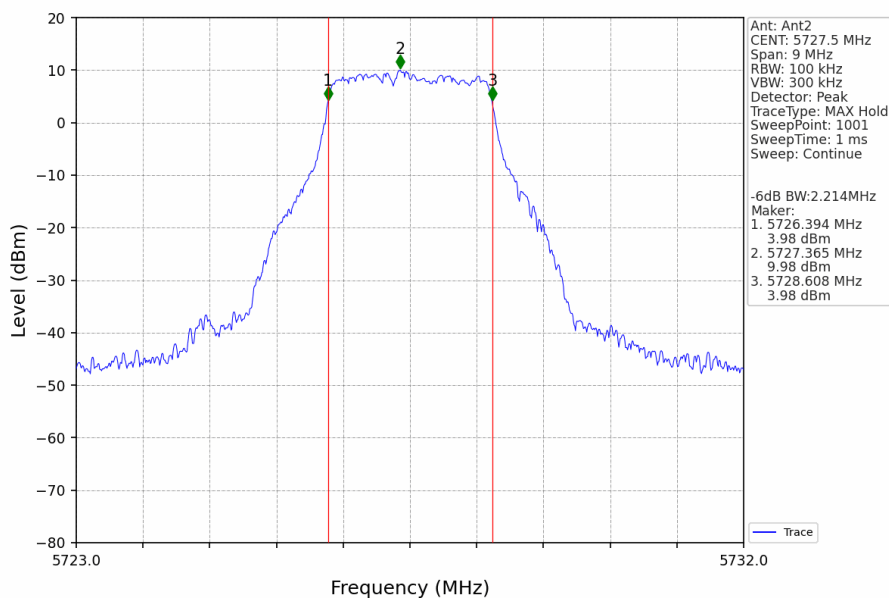
2.2.2 6dB BW



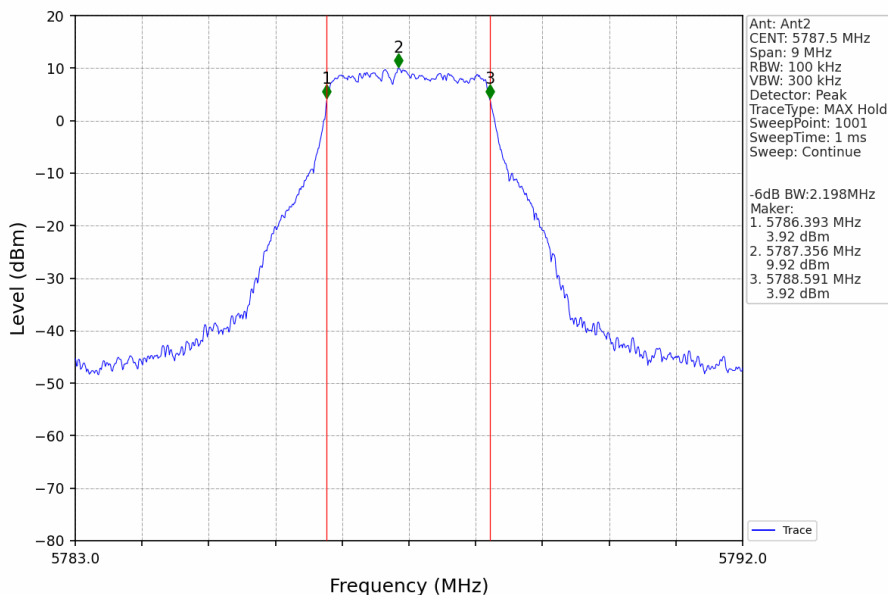
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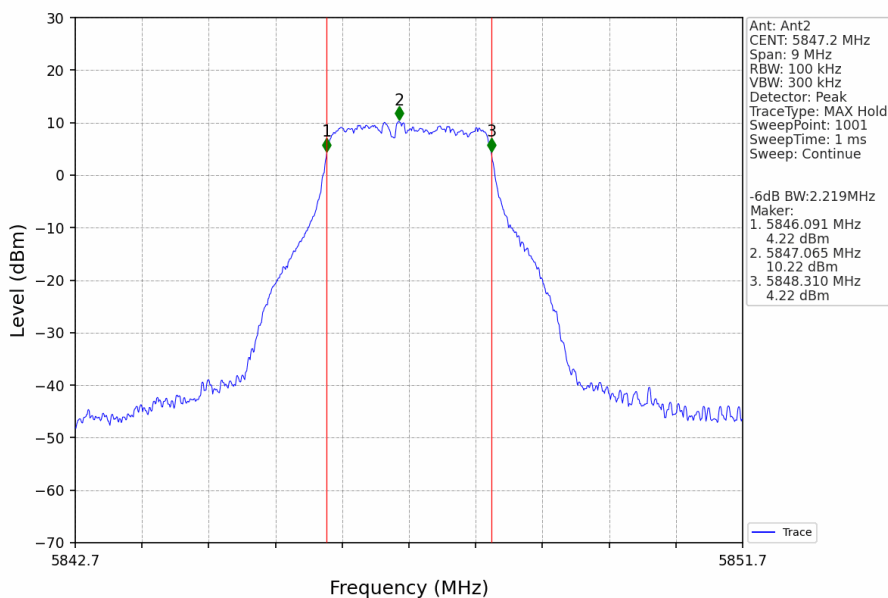
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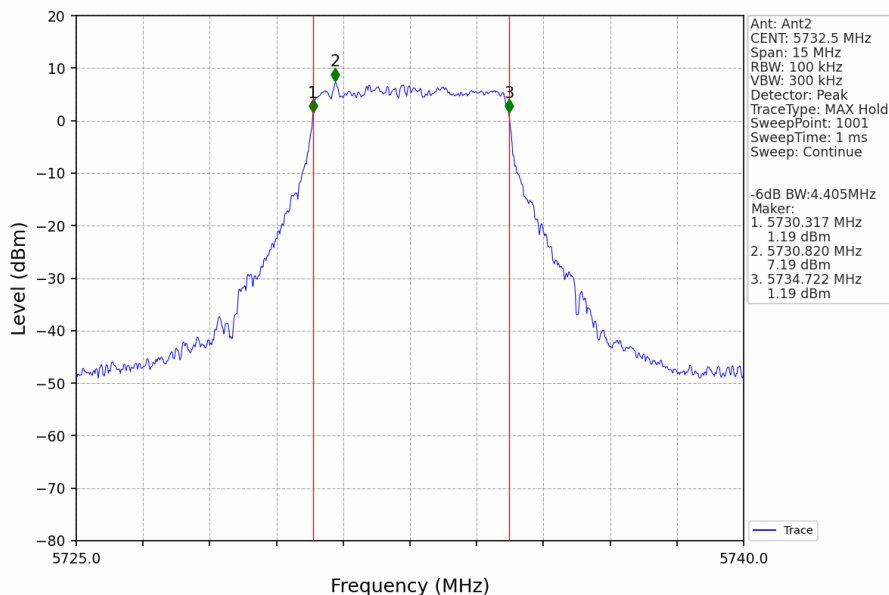
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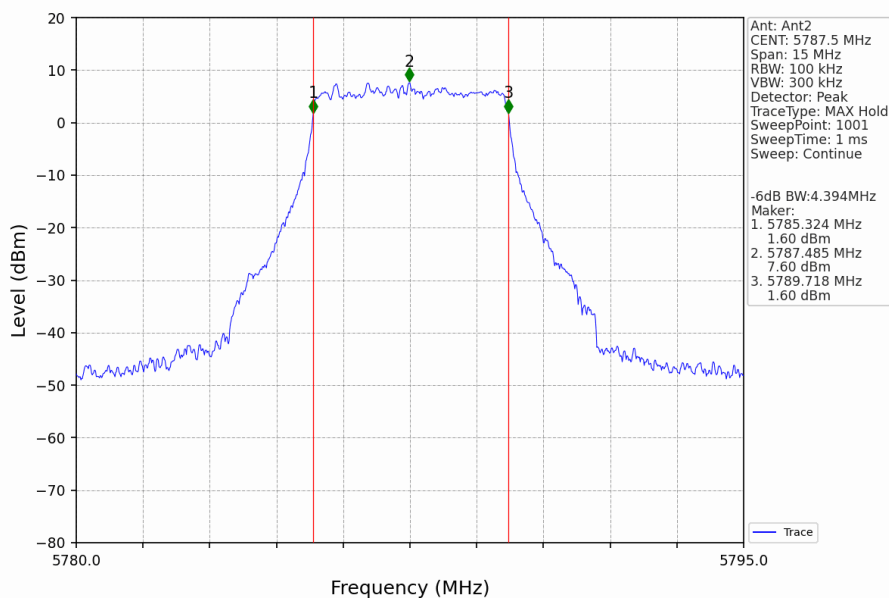
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5M LCH 5732.5MHz Ant2 NTV



5M MCH 5787.5MHz Ant2 NTV



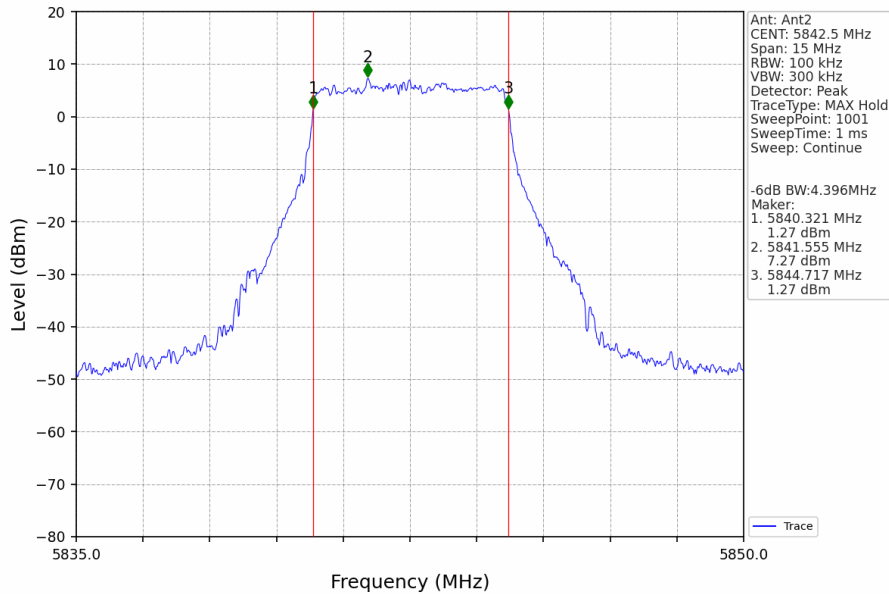
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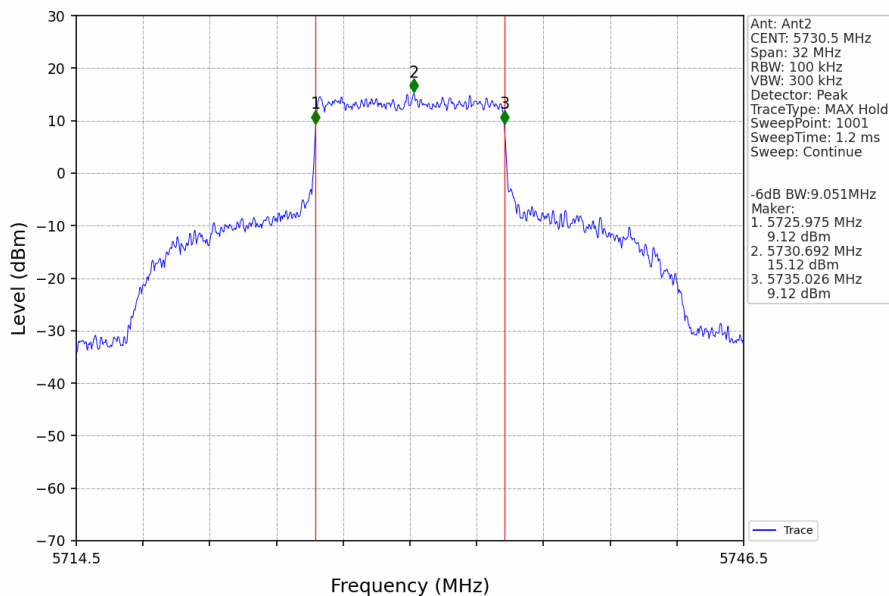
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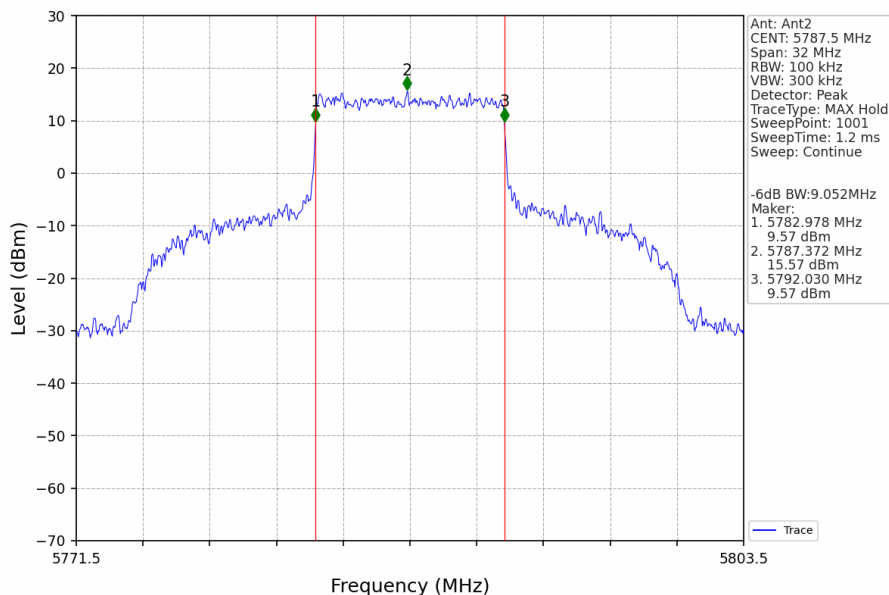
5M HCH 5842.5MHz Ant2 NTN



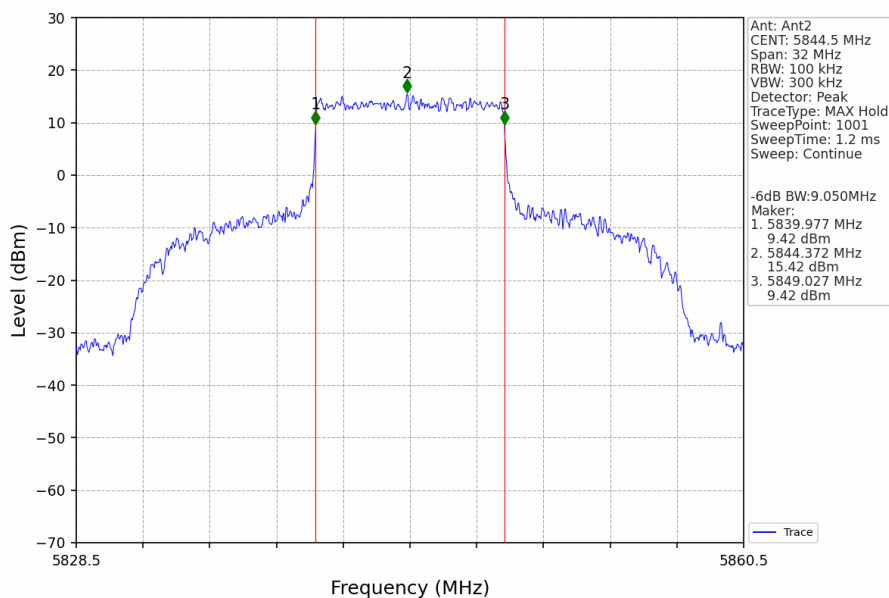
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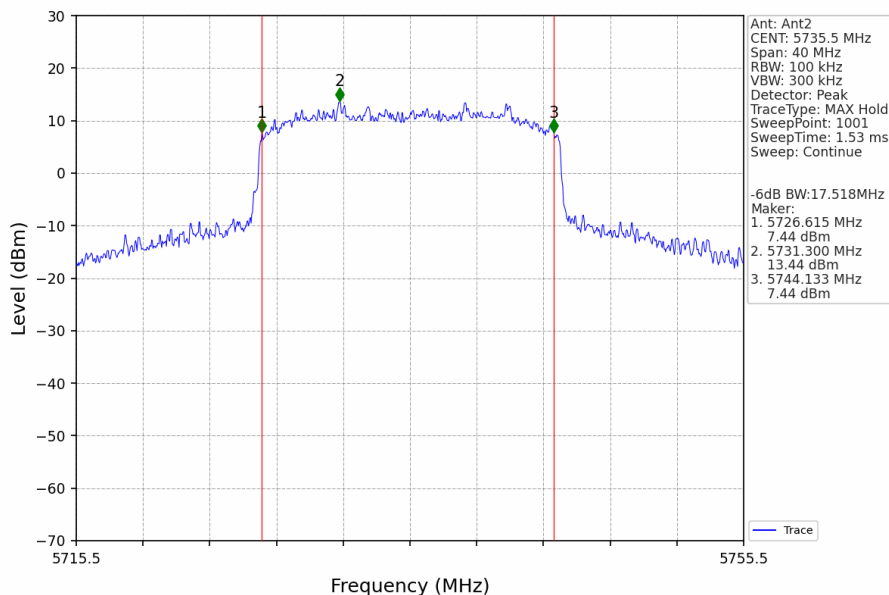
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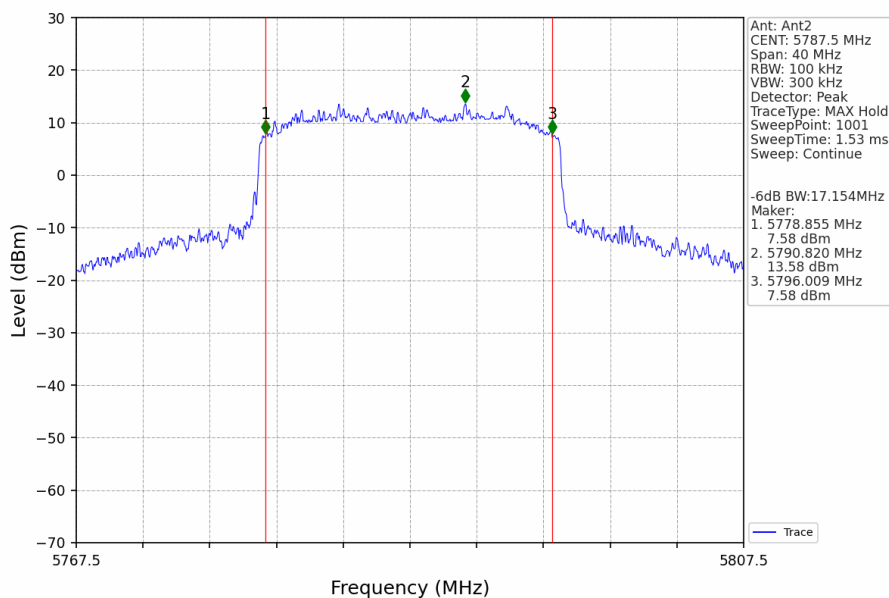
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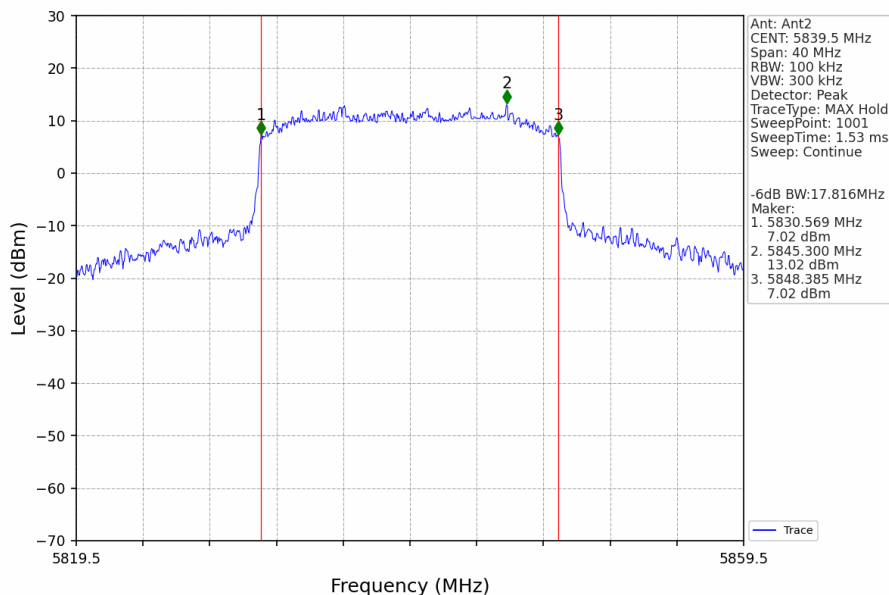
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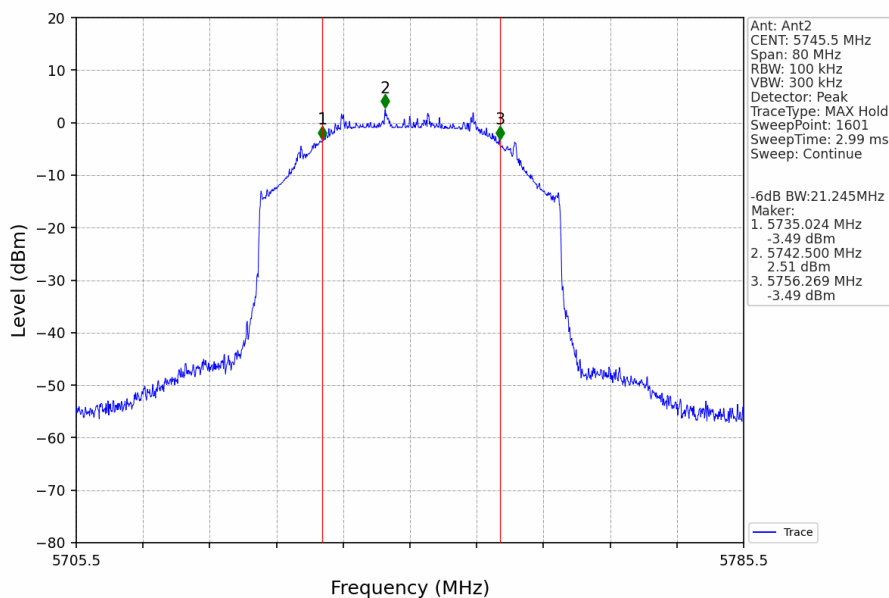
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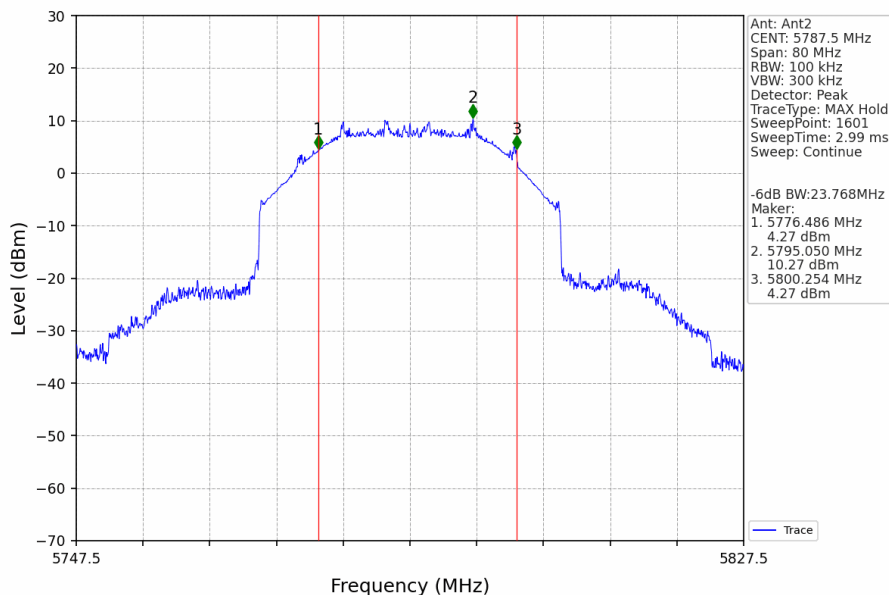
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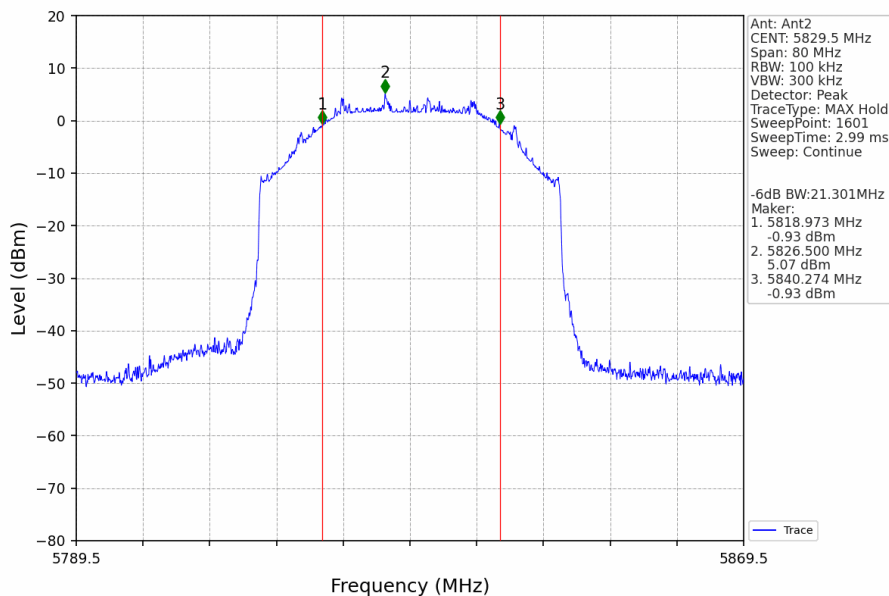
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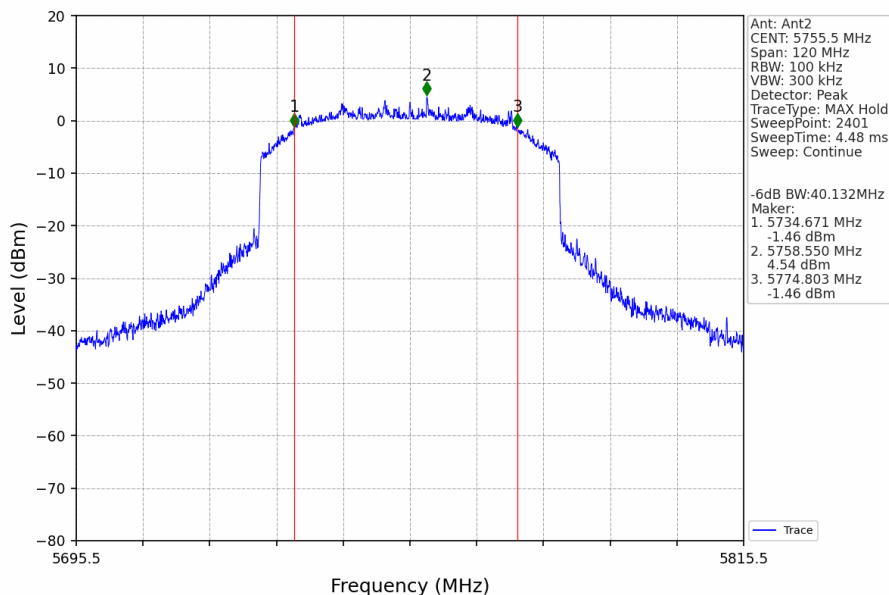
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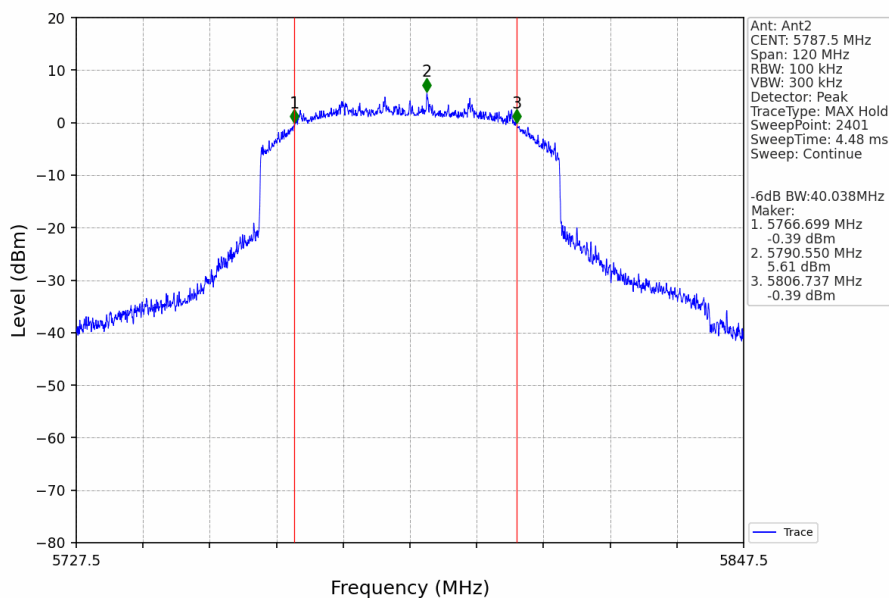
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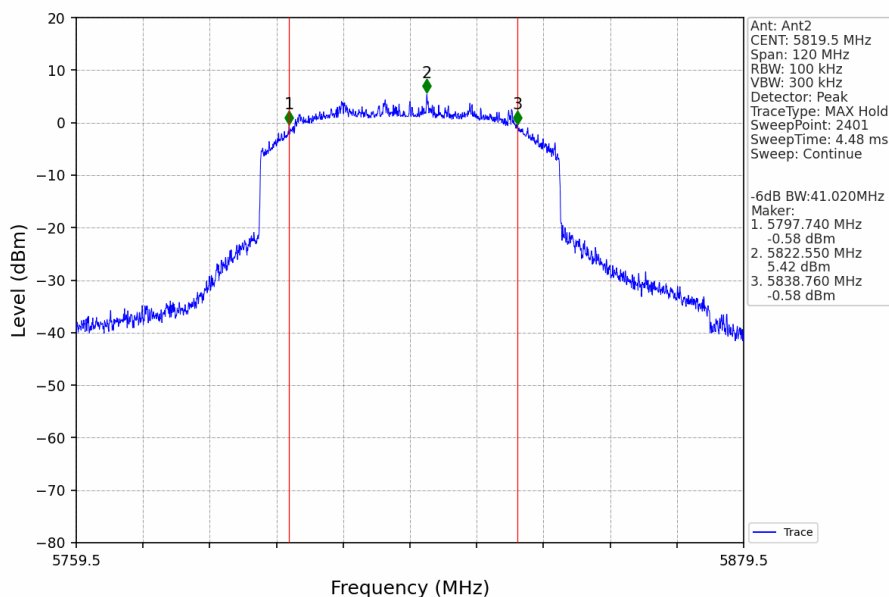
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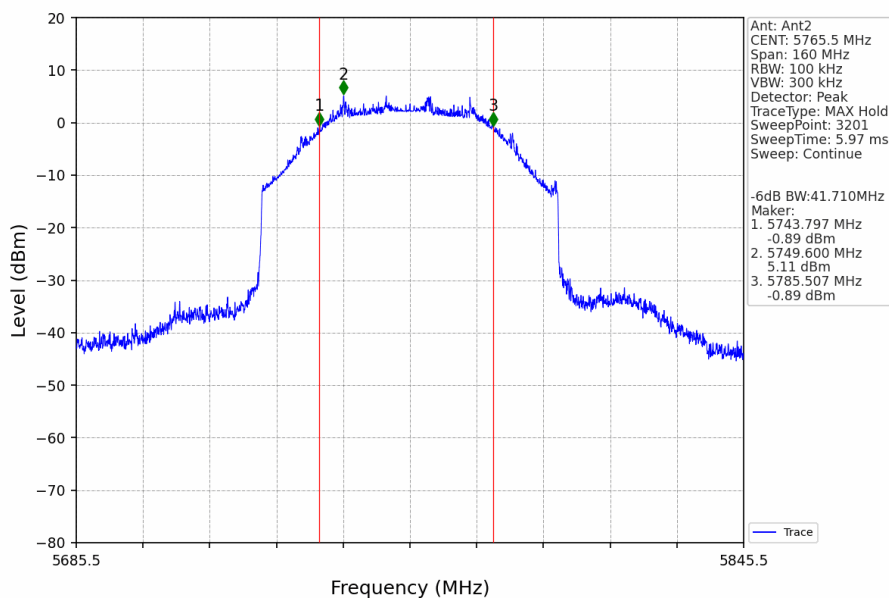
60M MCH 5787.5MHz Ant2 NTN



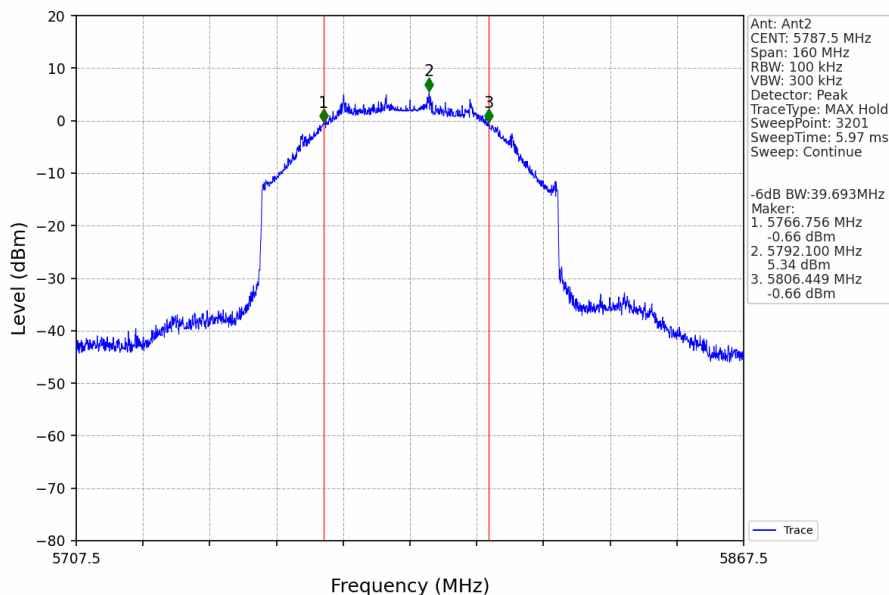
60M HCH 5819.5MHz Ant2 NTN



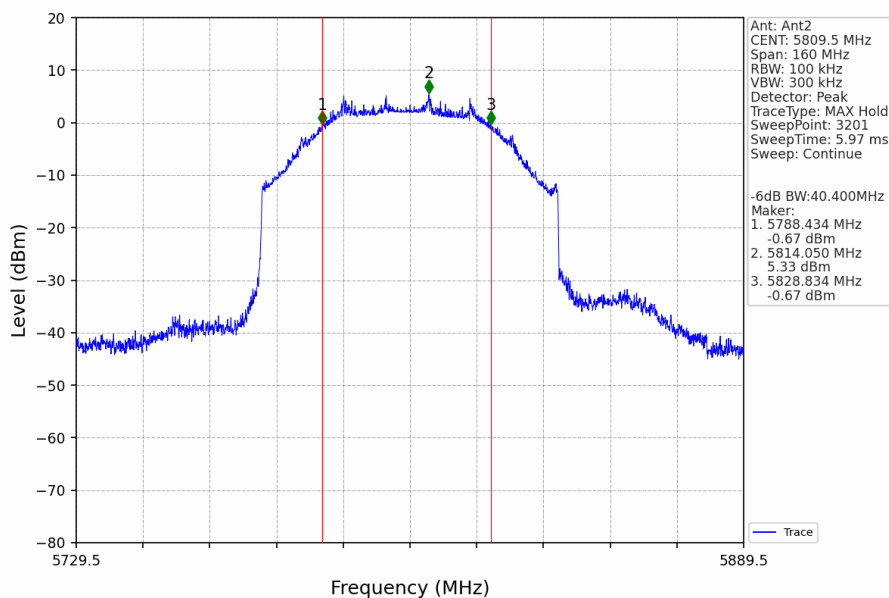
80M LCH 5765.5MHz Ant2 NTN



80M MCH 5787.5MHz Ant2 NTN



80M HCH 5809.5MHz Ant2 NTN



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

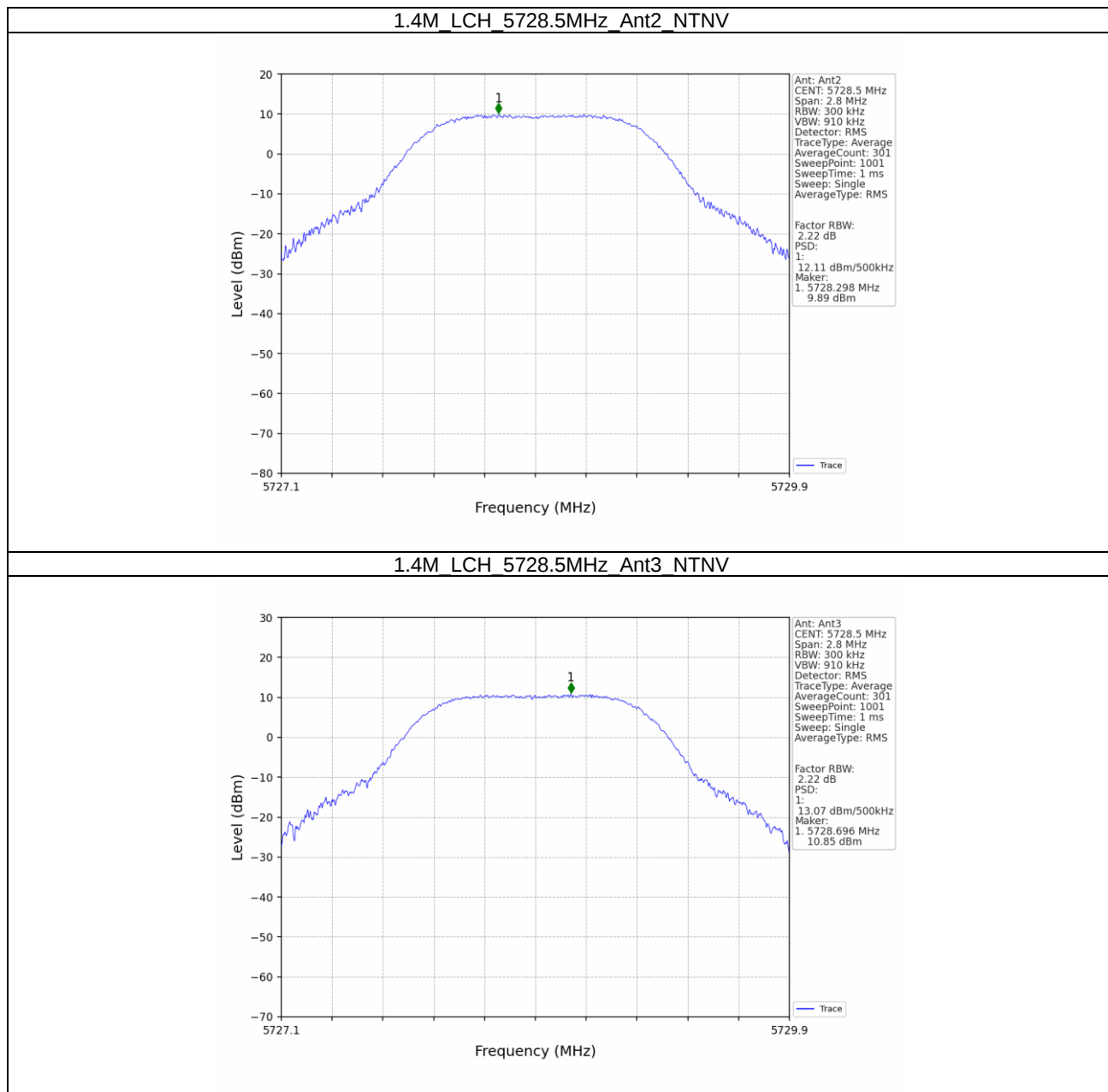
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT2	ANT3	MIMO	Limit	
1.4M	MIMO	5728.5	12.11	13.07	15.43	<=29.89	Pass
		5786.5	11.99	13.13	15.50	<=29.89	Pass
		5846.12	12.18	12.98	15.58	<=29.89	Pass
3M	MIMO	5727.5	9.57	10.42	12.84	<=29.89	Pass
		5787.5	9.29	10.92	13.01	<=29.89	Pass
		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

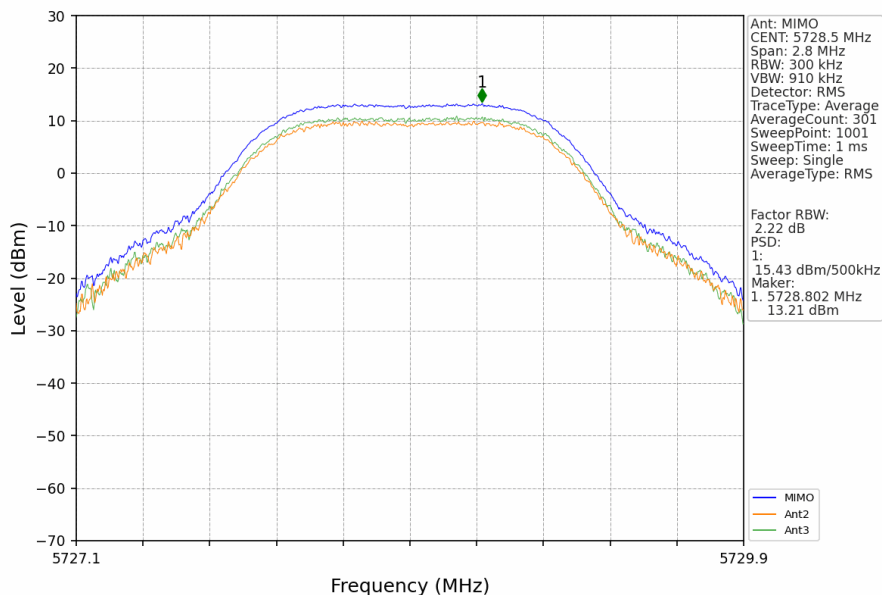


4.2 Test Graph

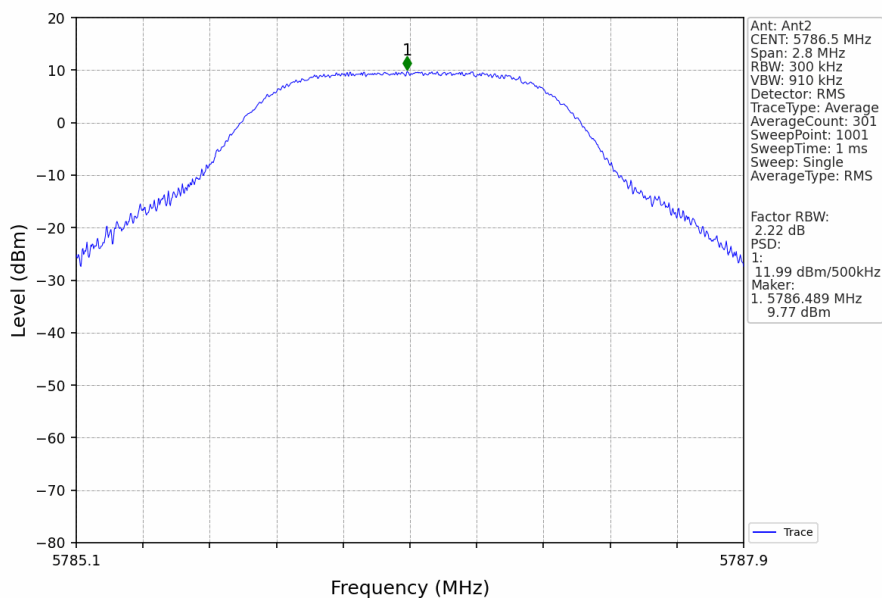
4.2.1 PSD-Band3



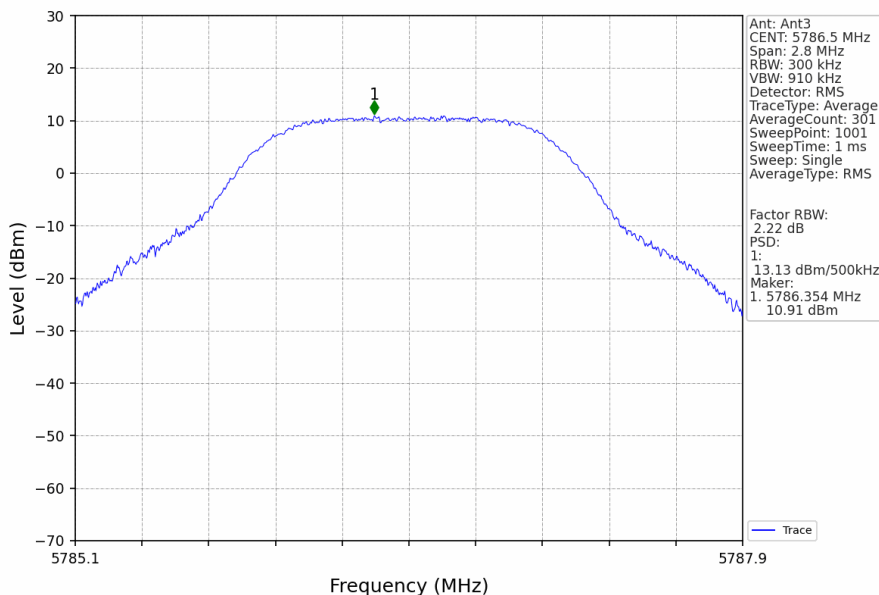
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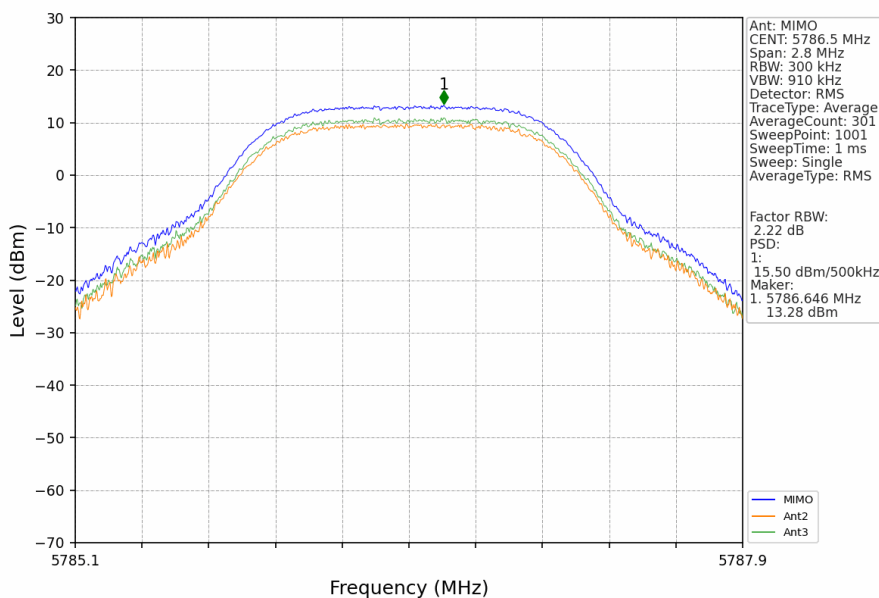
1.4M MCH 5786.5MHz Ant2 NTN



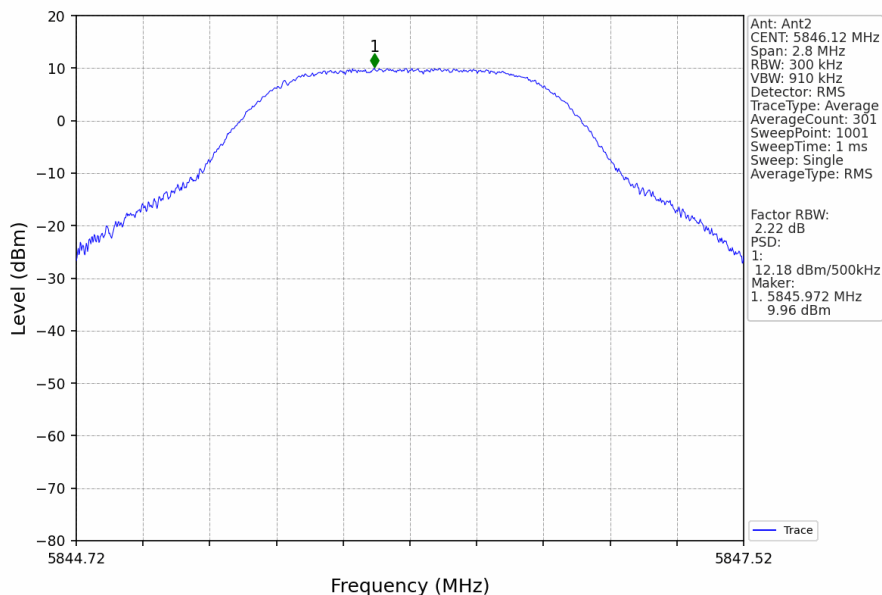
1.4M MCH 5786.5MHz Ant3 NTN



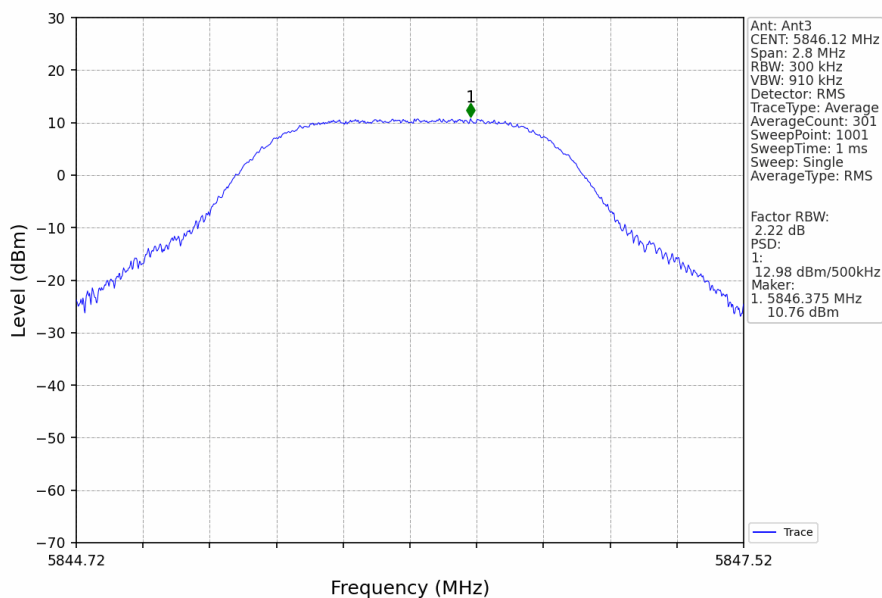
1.4M MCH 5786.5MHz MIMO NTN



1.4M HCH 5846.12MHz Ant2 NTN



1.4M HCH 5846.12MHz Ant3 NTN



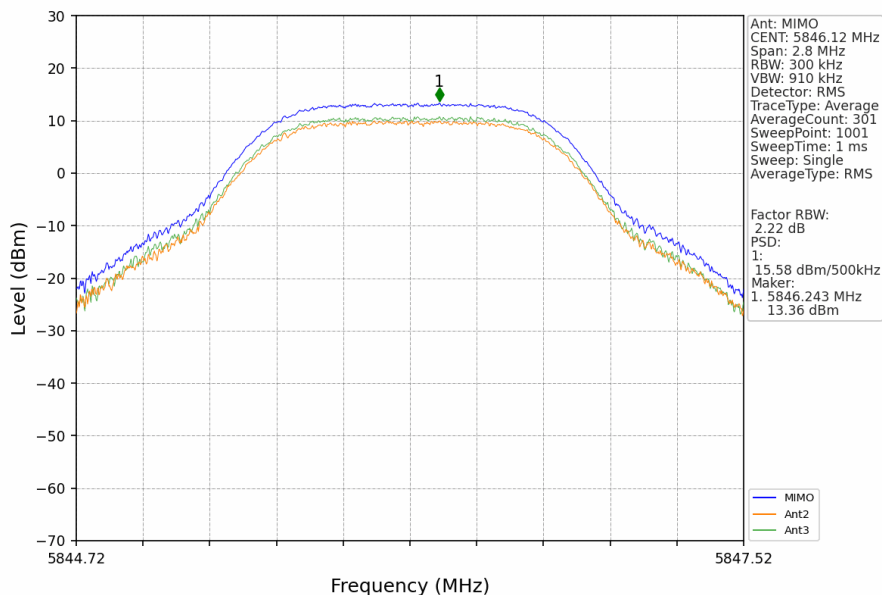
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1.4M HCH 5846.12MHz MIMO NTN



3M LCH 5727.5MHz Ant2 NTN

