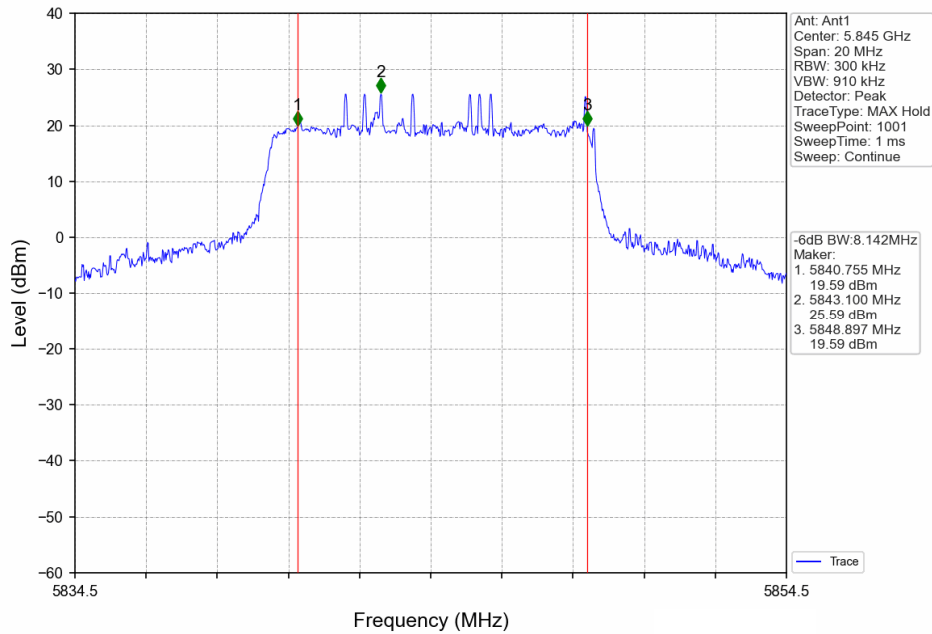
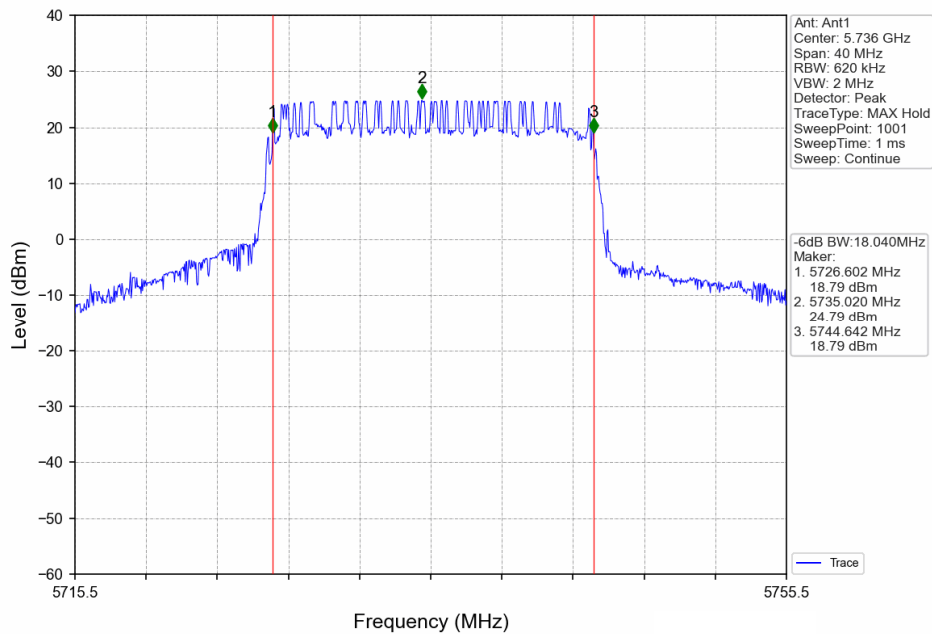


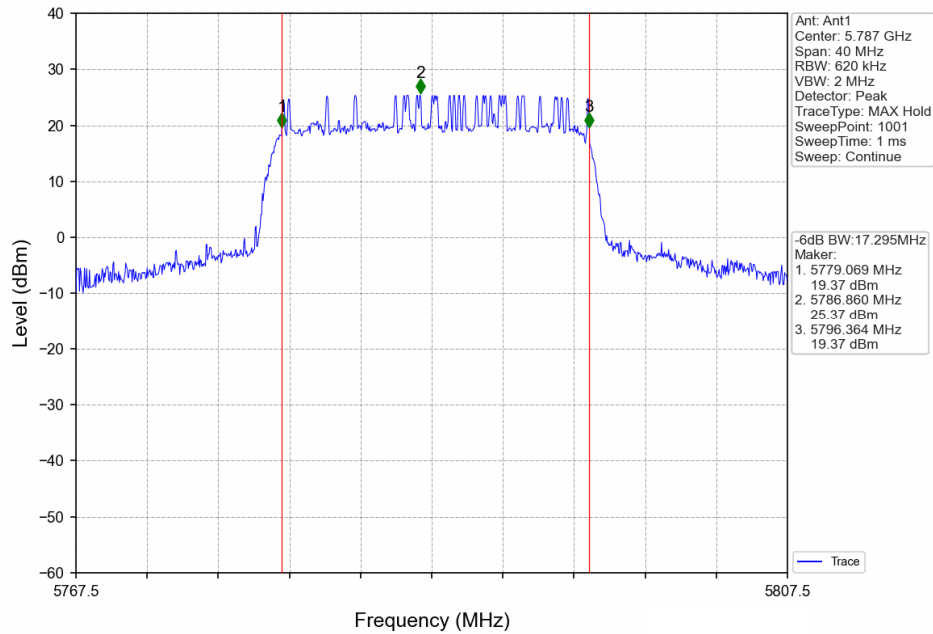
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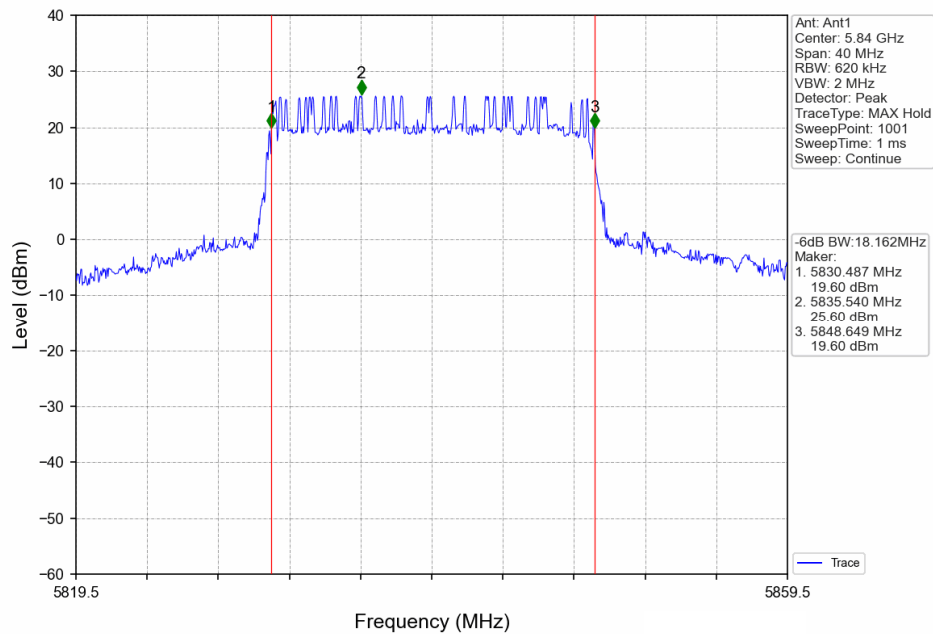
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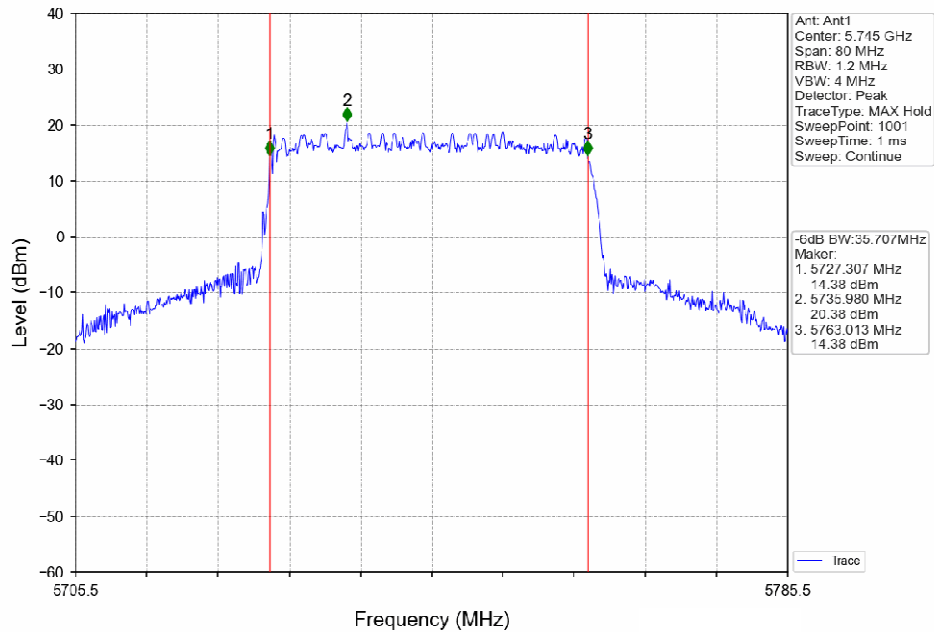
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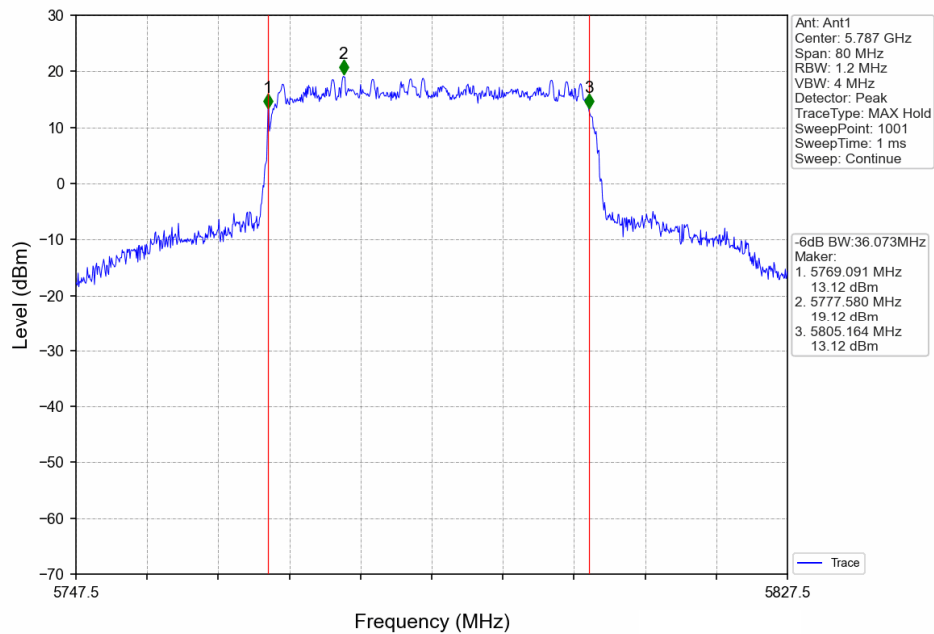
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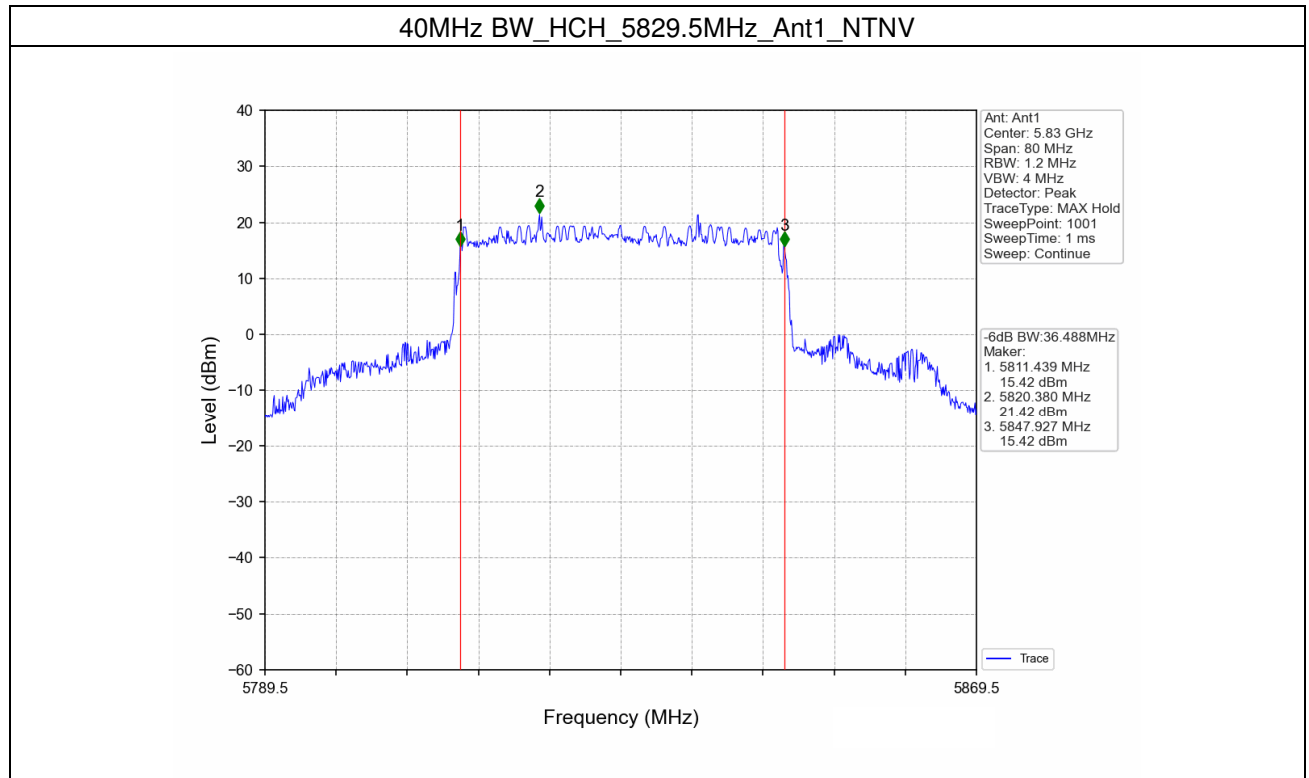
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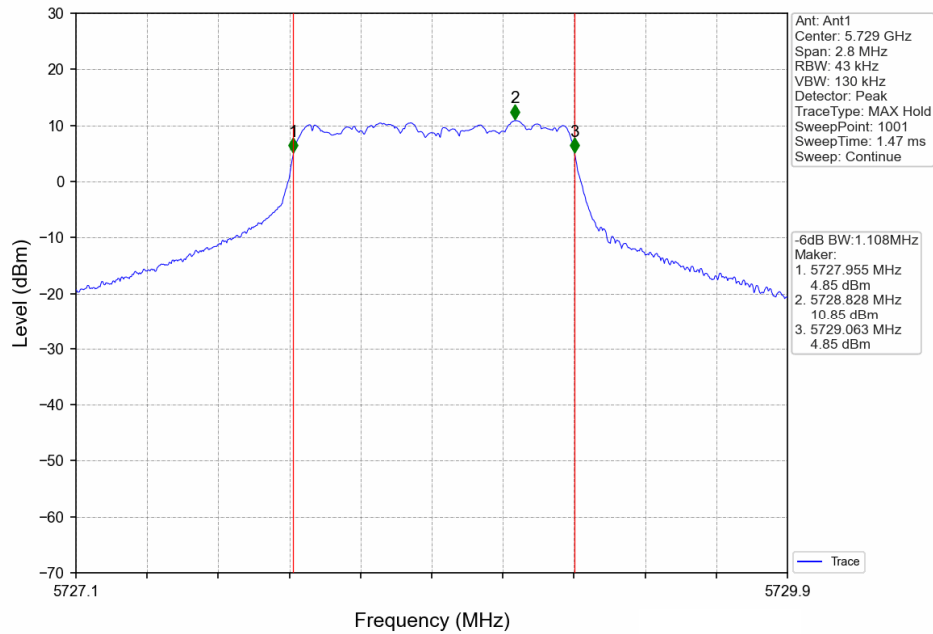
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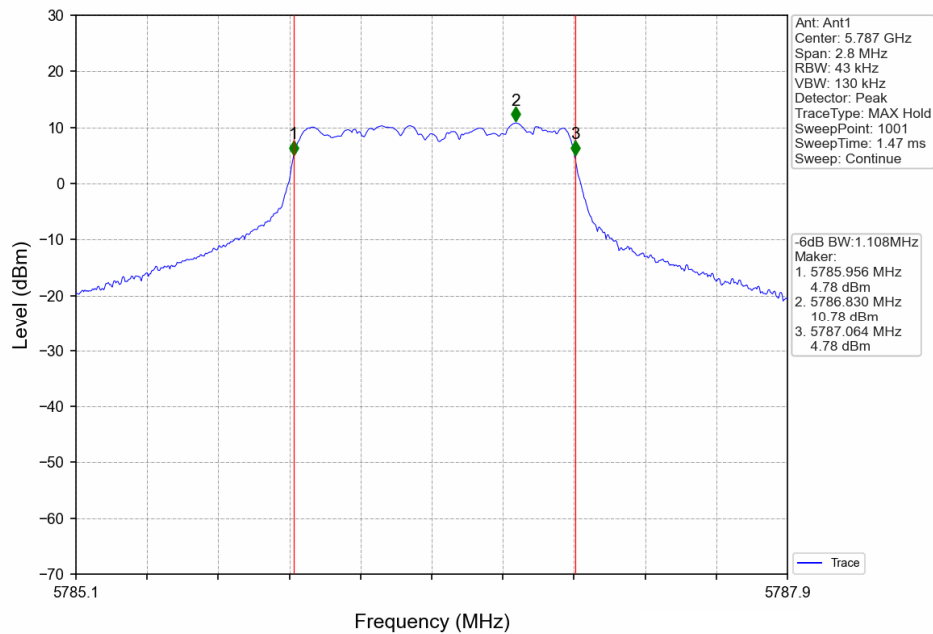
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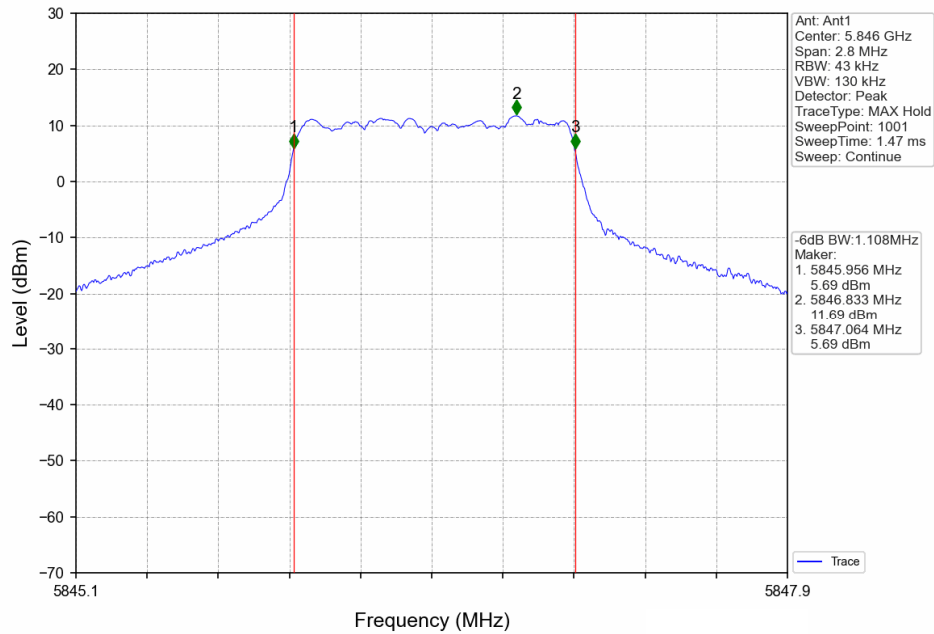
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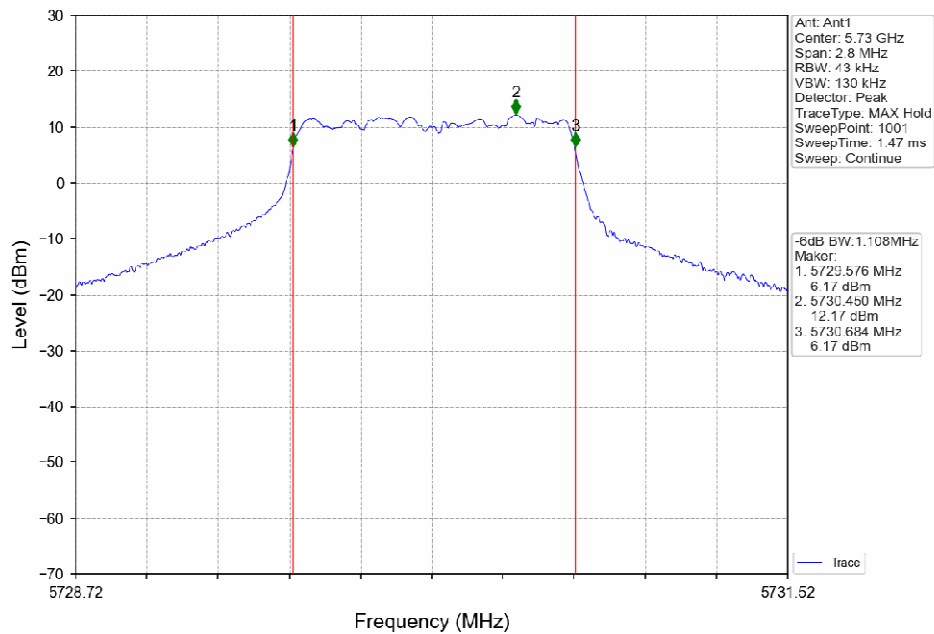
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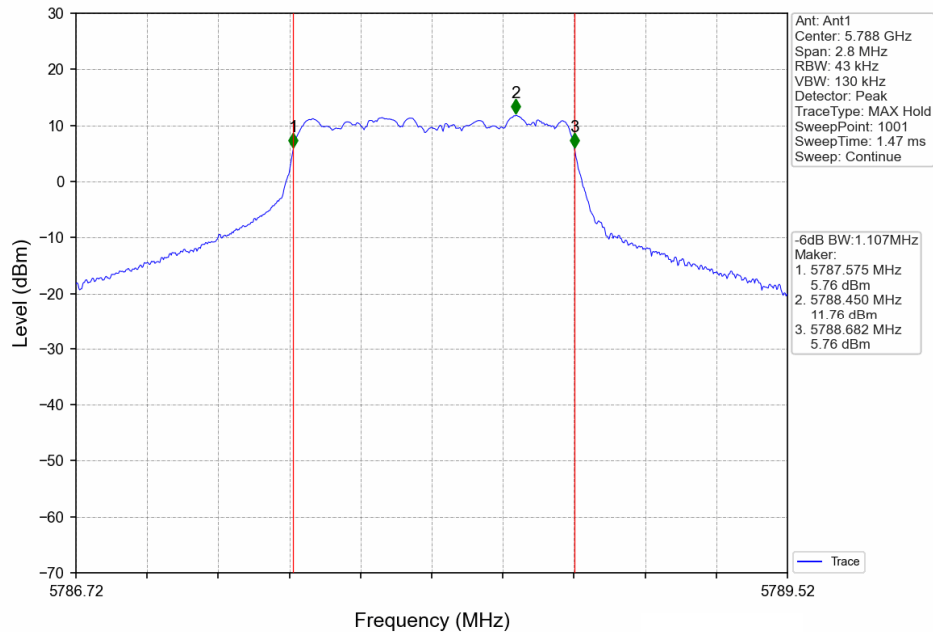
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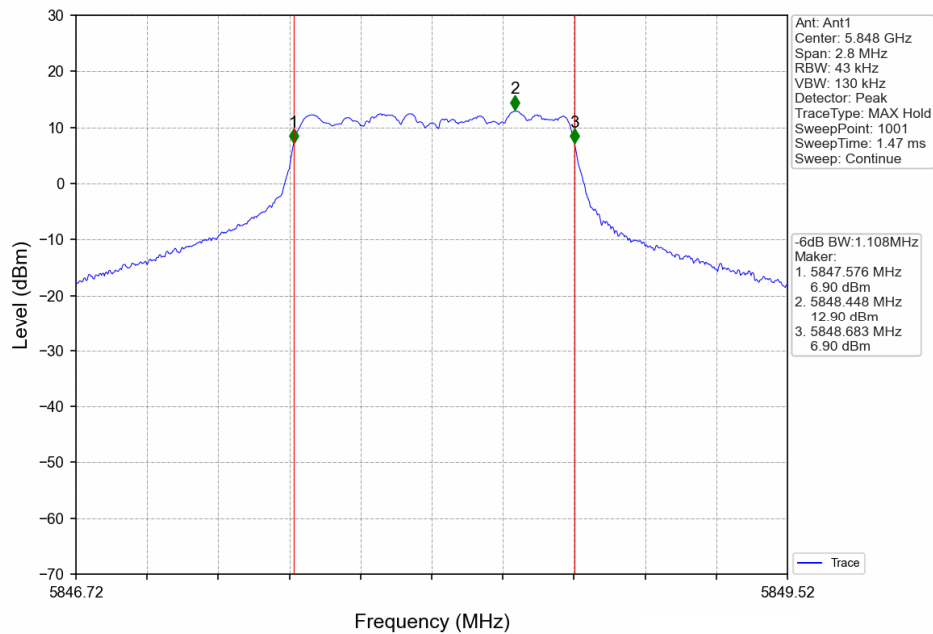
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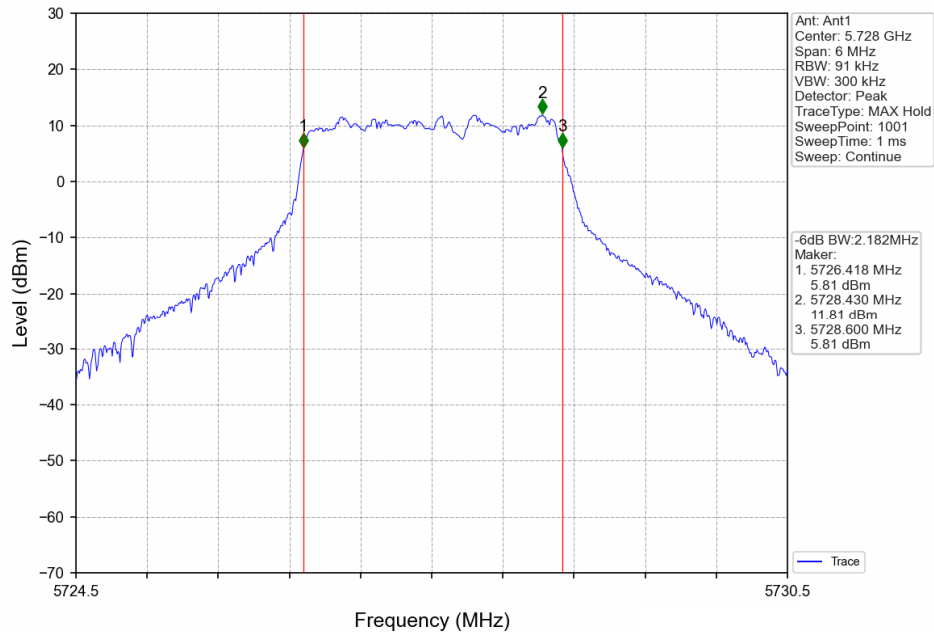
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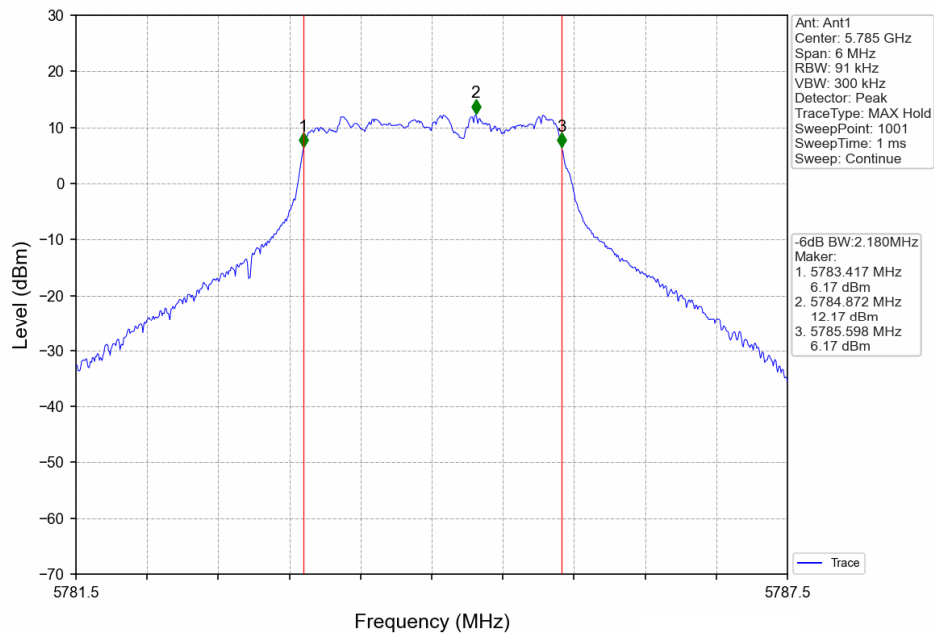
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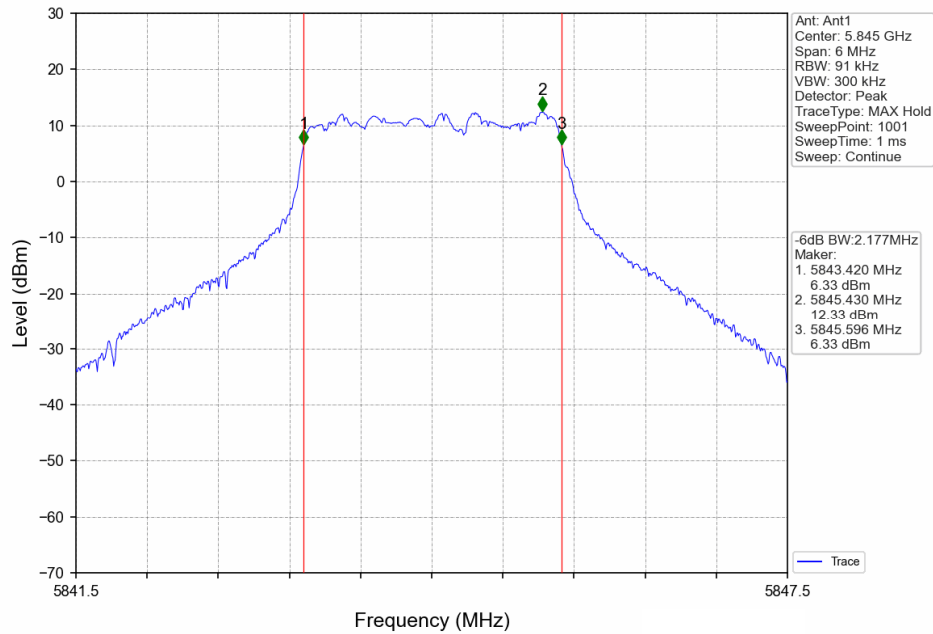
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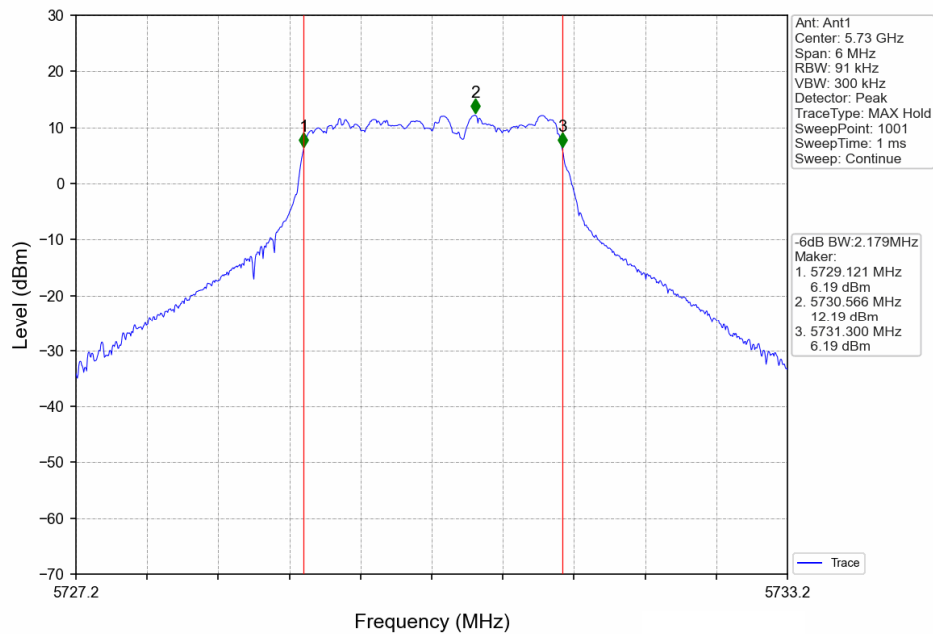
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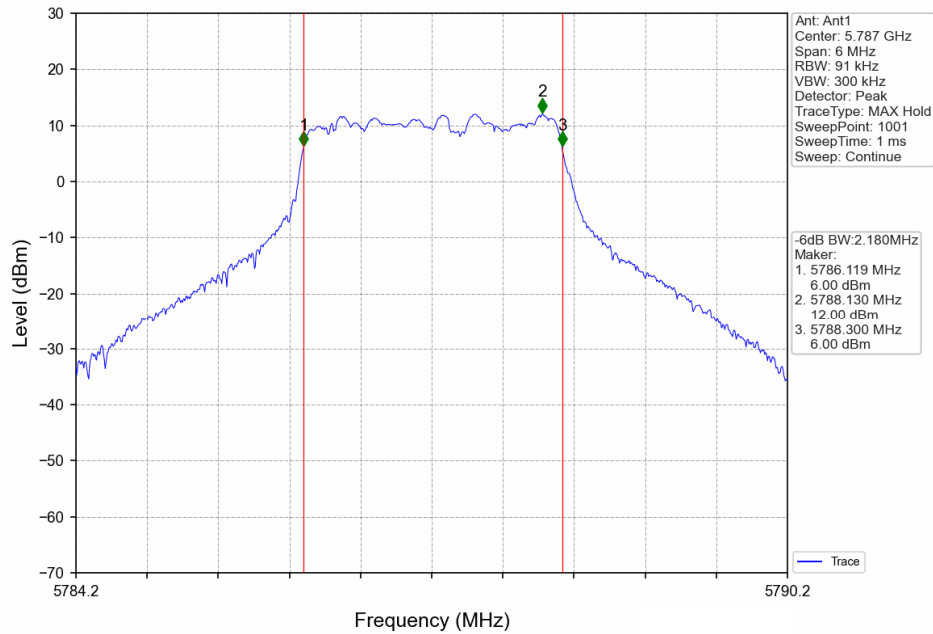
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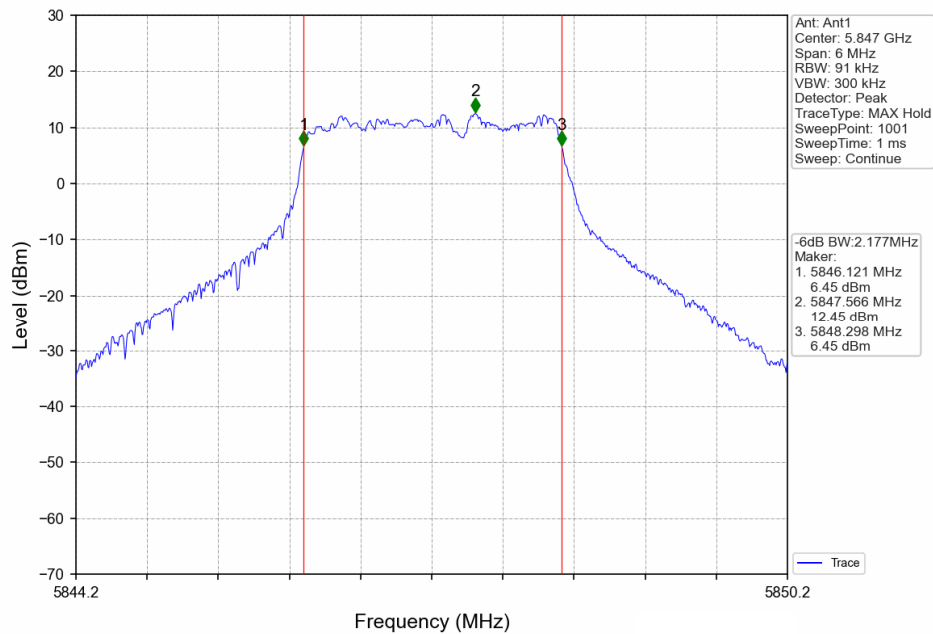
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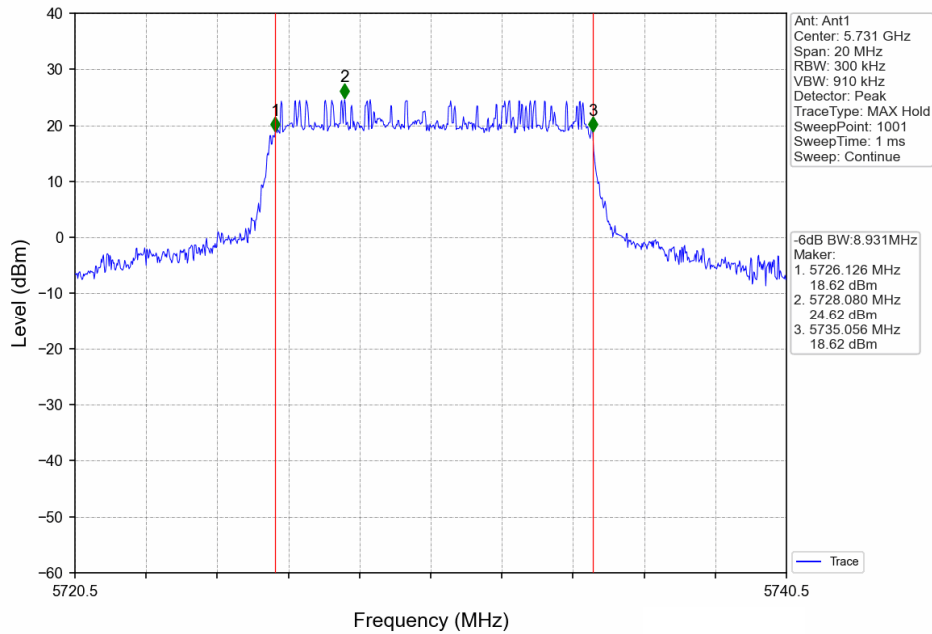
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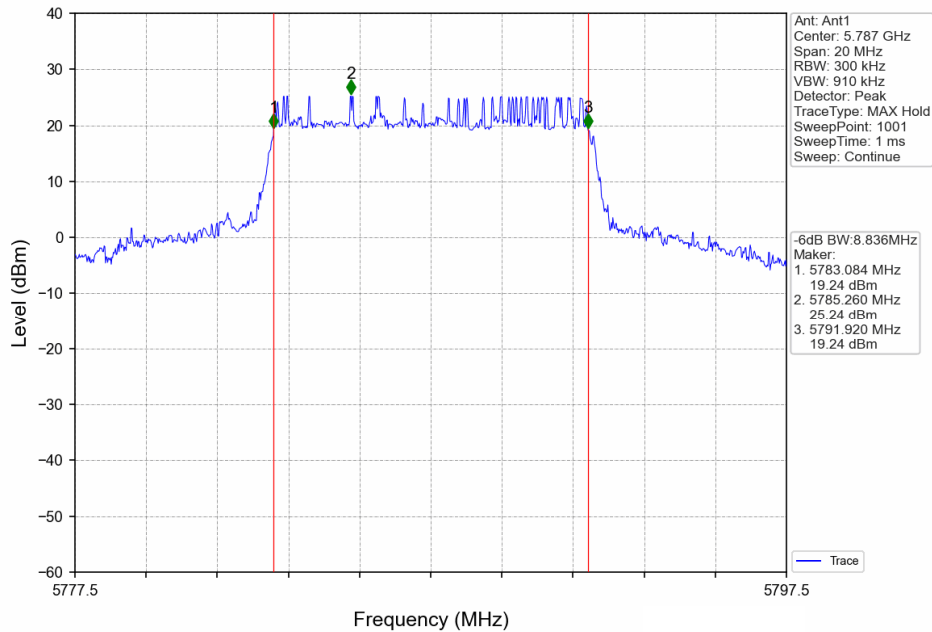
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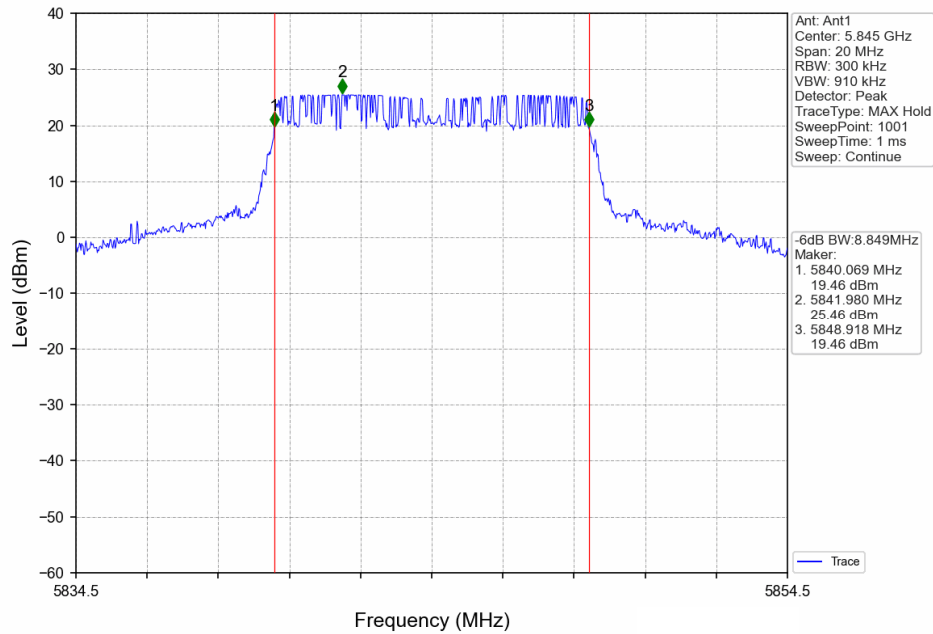
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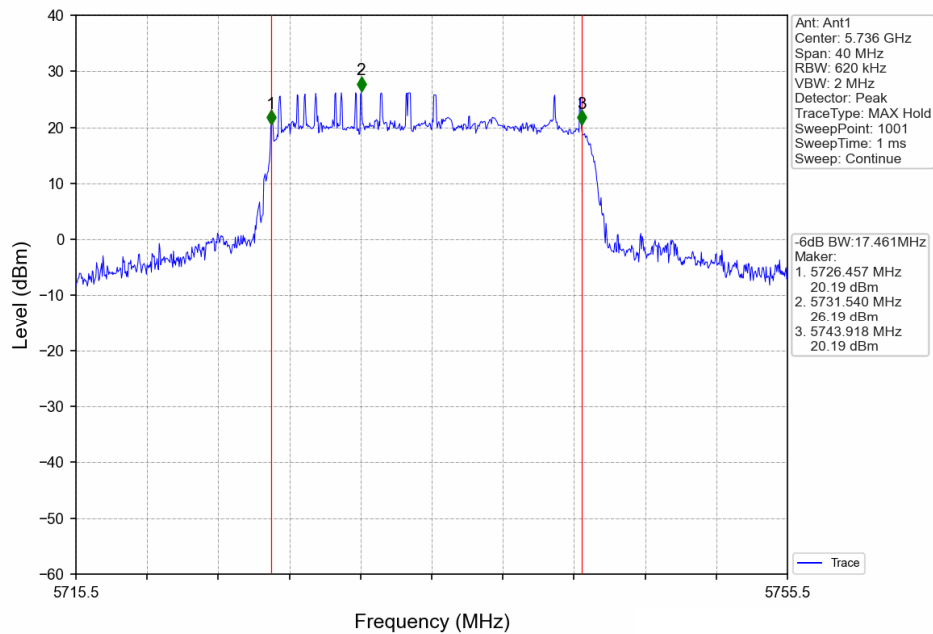
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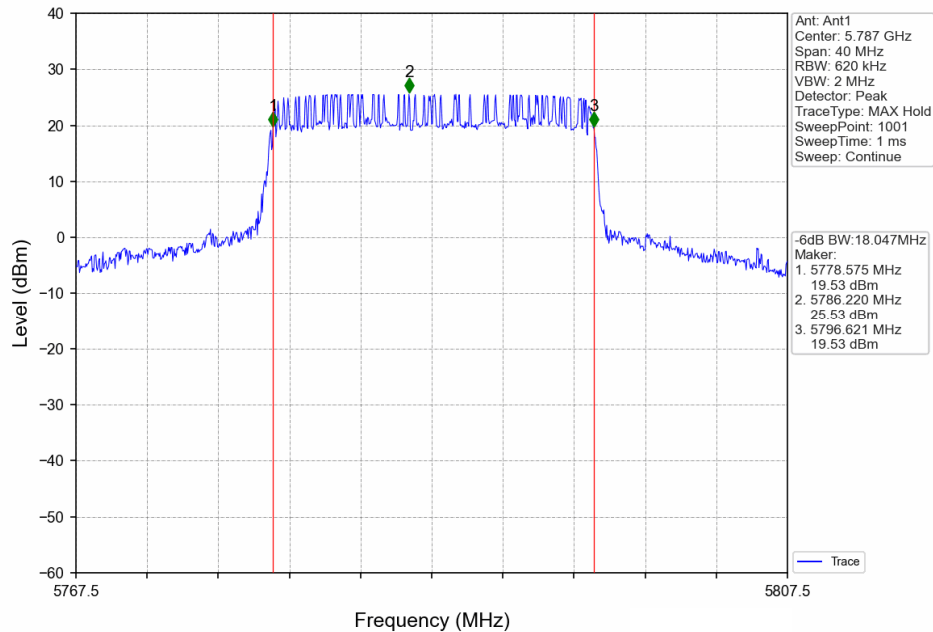
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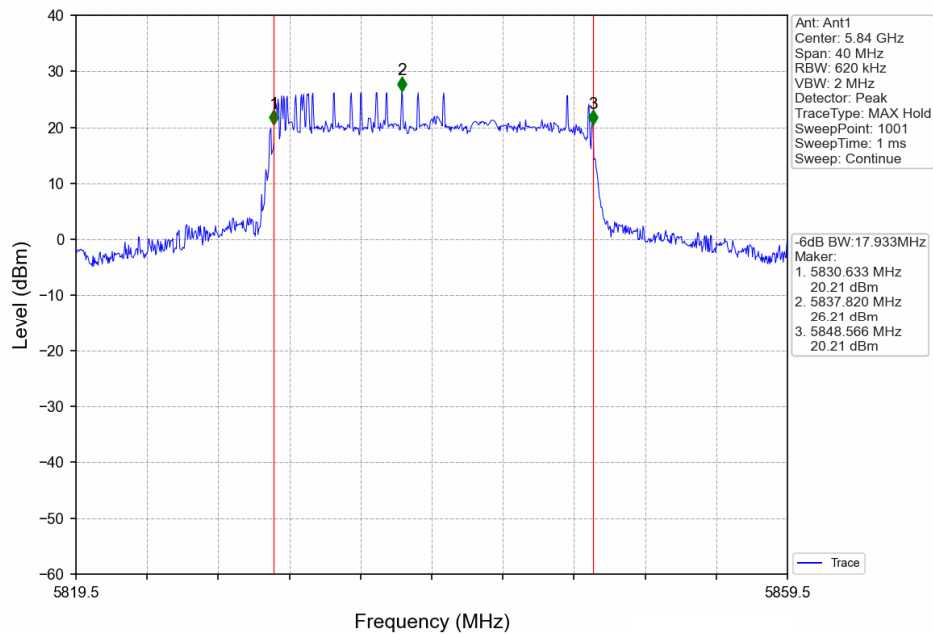
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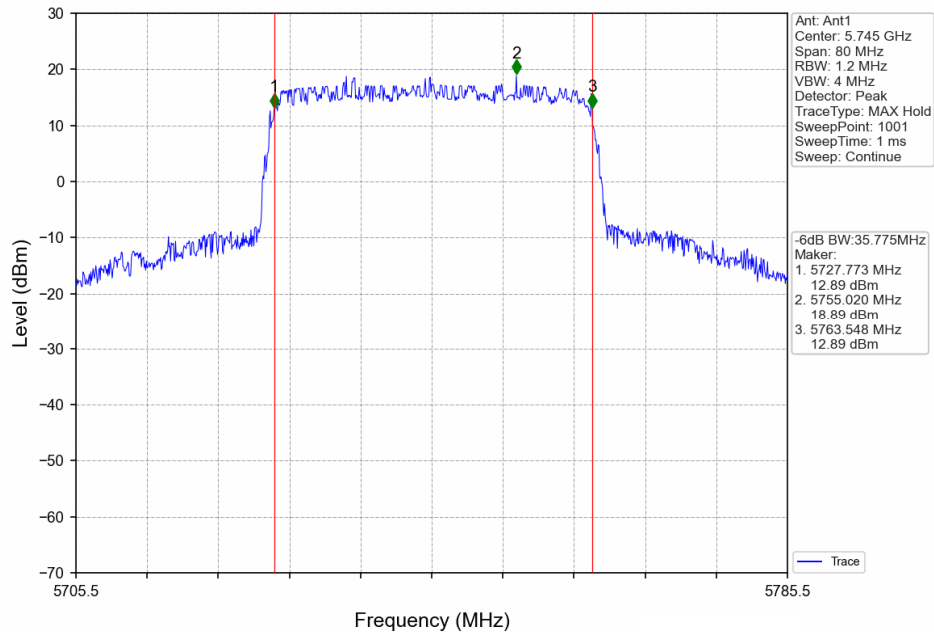
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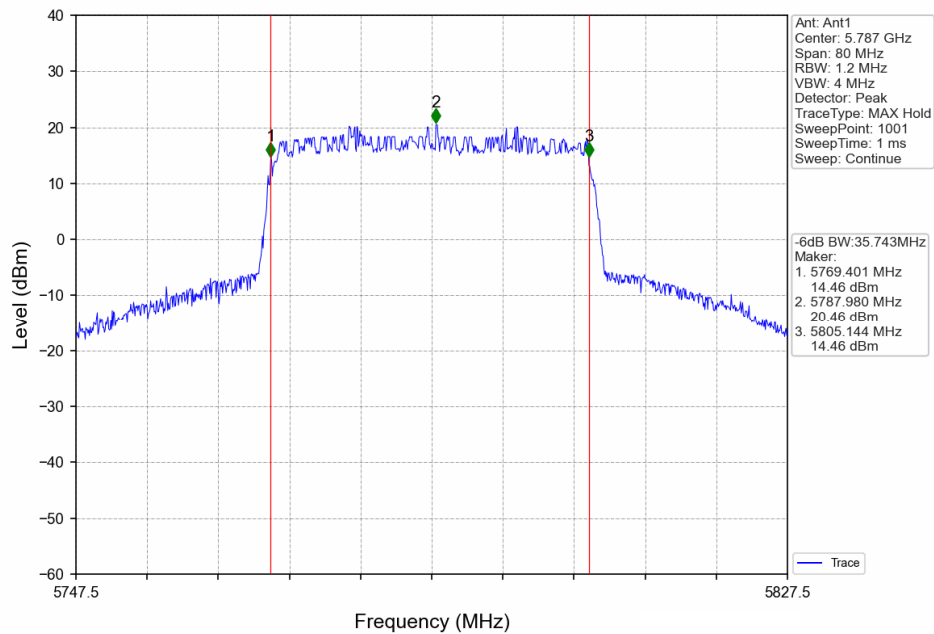
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40MHz BW_LCH_5745.5MHz_Ant1_NTNV



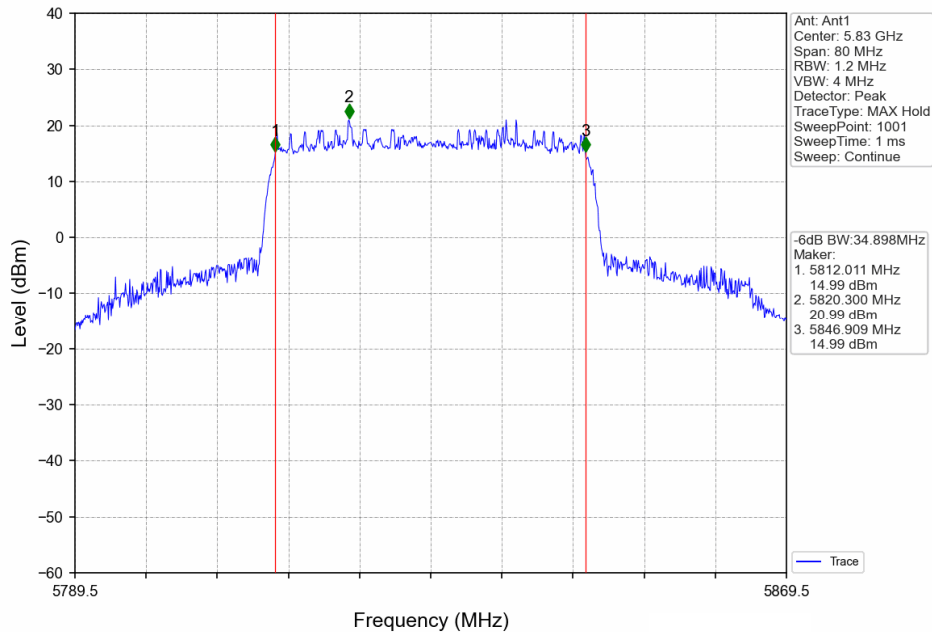
40MHz BW_MCH_5787.5MHz_Ant1_NTNV



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40MHz BW_HCH_5829.5MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Average Output Power (dBm)					Verdict
			Ant1	Ant2	Ant3	Ant4	Limit	
1.4MHz BW	SISO	5728.5	16.54	16.54	16.53	16.53	<=30	Pass
		5786.5	16.56	16.57	16.58	16.57	<=30	Pass
		5846.5	17.28	17.28	17.28	17.27	<=30	Pass
1.4MHz CA BW	SISO	5730.12	16.36	16.34	16.34	16.34	<=30	Pass
		5788.12	16.41	16.41	16.41	16.41	<=30	Pass
		5848.12	17.12	17.13	17.12	17.12	<=30	Pass
3MHz BW	SISO	5727.5	17.16	17.20	17.14	17.12	<=30	Pass
		5784.5	17.72	17.69	17.68	17.75	<=30	Pass
		5844.5	17.30	17.29	17.30	17.30	<=30	Pass
3MHz CA BW	SISO	5730.2	16.57	16.55	16.58	16.58	<=30	Pass
		5787.2	16.63	16.58	16.63	16.60	<=30	Pass
		5847.2	17.15	17.18	17.19	17.18	<=30	Pass
10MHz BW	SISO	5730.5	24.53	24.61	24.68	24.76	<=30	Pass
		5787.5	24.97	24.98	24.99	24.97	<=30	Pass
		5844.5	25.43	25.41	25.42	25.42	<=30	Pass
20MHz BW	SISO	5735.5	24.46	24.46	24.44	24.43	<=30	Pass
		5787.5	24.86	24.88	24.87	24.87	<=30	Pass
		5839.5	25.00	25.01	25.02	25.01	<=30	Pass
40MHz BW	SISO	5745.5	21.26	21.27	21.28	21.26	<=30	Pass
		5787.5	21.29	21.24	21.28	21.26	<=30	Pass
		5829.5	21.88	21.84	21.86	21.88	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 2.50dBi; Ant3: 2.50dBi; Ant4: 3.00dBi;

ENV	Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)				Verdict
				Ant1	Ant2	Sum	Limit	
NTNV	1.4MHz BW	MIMO	5728.5	15.31	16.49	18.95	<=30	Pass
			5786.5	15.46	17.08	19.36	<=30	Pass
			5846.5	16.50	16.45	19.49	<=30	Pass
	1.4MHz CA BW	MIMO	5730.12	15.74	16.49	19.14	<=30	Pass
			5788.12	15.43	16.98	19.28	<=30	Pass
			5848.12	16.49	16.97	19.75	<=30	Pass
	3MHz BW	MIMO	5727.5	14.95	17.54	19.45	<=30	Pass
			5784.5	15.54	17.01	19.35	<=30	Pass
			5844.5	15.47	16.79	19.19	<=30	Pass
	3MHz CA BW	MIMO	5730.2	15.29	17.44	19.51	<=30	Pass
			5787.2	15.21	17.13	19.29	<=30	Pass
			5847.2	15.55	16.73	19.19	<=30	Pass
	10MHz BW	MIMO	5730.5	25.72	26.96	29.39	<=30	Pass
			5787.5	25.34	26.63	29.04	<=30	Pass
			5844.5	26.33	27.38	29.90	<=30	Pass
	20MHz BW	MIMO	5735.5	26.02	26.73	29.40	<=30	Pass
			5787.5	25.39	26.55	29.02	<=30	Pass
			5839.5	25.70	26.13	28.93	<=30	Pass
	40MHz BW	MIMO	5745.5	22.82	24.33	26.65	<=30	Pass
			5787.5	22.81	24.26	26.61	<=30	Pass
			5829.5	23.46	24.33	26.93	<=30	Pass
Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 2.50dBi; Note2: Directional Gain=10log [(10 ^{G1/20} + 10 ^{G2/20})/N _{ANT}] = 10log [(10 ^{3.00/20} + 10 ^{2.50/20})/2] = 5.76dBi. Note3: Antennas 1+2,1+4,2+3 and 3+4 were tested. Only the worst case(Antenna 1+2) was recorded in the report.								

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)					Verdict
			Ant1	Ant2	Ant3	Ant4	Limit	
1.4MHz BW	SISO	5728.5	15.29	15.35	15.49	15.54	<=30	Pass
		5786.5	15.46	15.46	15.41	15.57	<=30	Pass
		5846.5	16.17	16.09	16.07	16.15	<=30	Pass
1.4MHz CA BW	SISO	5730.12	15.18	15.13	15.19	15.33	<=30	Pass
		5788.12	15.33	15.36	15.33	15.53	<=30	Pass
		5848.12	16.01	15.99	16.06	16.03	<=30	Pass
3MHz BW	SISO	5727.5	12.30	12.10	12.10	12.25	<=30	Pass
		5784.5	12.72	12.68	12.80	12.62	<=30	Pass
		5844.5	12.43	12.43	12.59	12.13	<=30	Pass
3MHz CA BW	SISO	5730.2	11.56	11.71	11.58	11.62	<=30	Pass
		5787.2	11.56	11.58	11.69	11.65	<=30	Pass
		5847.2	12.30	12.17	12.12	12.11	<=30	Pass
10MHz BW	SISO	5730.5	13.07	13.31	13.38	13.35	<=30	Pass
		5787.5	13.85	13.80	13.53	13.84	<=30	Pass
		5844.5	13.84	13.89	13.93	14.01	<=30	Pass
20MHz BW	SISO	5735.5	10.17	10.02	9.99	10.05	<=30	Pass
		5787.5	10.68	10.56	10.31	10.66	<=30	Pass
		5839.5	10.59	10.33	10.60	10.54	<=30	Pass
40MHz BW	SISO	5745.5	3.88	3.81	3.82	4.18	<=30	Pass
		5787.5	3.96	3.93	4.14	4.09	<=30	Pass
		5829.5	4.58	4.45	4.56	4.44	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 2.50dBi; Ant3: 2.50dBi; Ant4: 3.00dBi;

ENV	Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
				Ant1	Ant2	Sum	Limit	
NTNV	1.4MHz BW	MIMO	5728.5	14.30	15.83	18.15	<=30	Pass
			5786.5	14.56	16.36	18.38	<=30	Pass
			5846.5	15.51	15.39	18.34	<=30	Pass
	1.4MHz CA BW	MIMO	5730.12	14.91	15.73	18.02	<=30	Pass
			5788.12	14.26	16.34	18.24	<=30	Pass
			5848.12	15.57	16.21	18.61	<=30	Pass
	3MHz BW	MIMO	5727.5	10.13	12.77	14.47	<=30	Pass
			5784.5	10.58	12.20	14.25	<=30	Pass
			5844.5	10.75	12.36	14.56	<=30	Pass
	3MHz CA BW	MIMO	5730.2	10.48	12.54	14.56	<=30	Pass
			5787.2	10.41	12.87	14.82	<=30	Pass
			5847.2	10.59	12.13	14.41	<=30	Pass
	10MHz BW	MIMO	5730.5	14.38	15.61	17.83	<=30	Pass
			5787.5	13.79	14.89	17.22	<=30	Pass
			5844.5	14.91	15.92	18.15	<=30	Pass
	20MHz BW	MIMO	5735.5	11.41	12.56	14.95	<=30	Pass
			5787.5	10.86	12.30	14.47	<=30	Pass
			5839.5	11.27	11.80	14.36	<=30	Pass
	40MHz BW	MIMO	5745.5	5.48	6.84	8.99	<=30	Pass
			5787.5	5.76	6.76	9.05	<=30	Pass
			5829.5	6.08	7.38	9.50	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 2.50dBi;

Note2: Directional Gain= $10\log [(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 10\log [(10^{3.00/20} + 10^{2.50/20})^2 / 2] = 5.76\text{dBi}$.

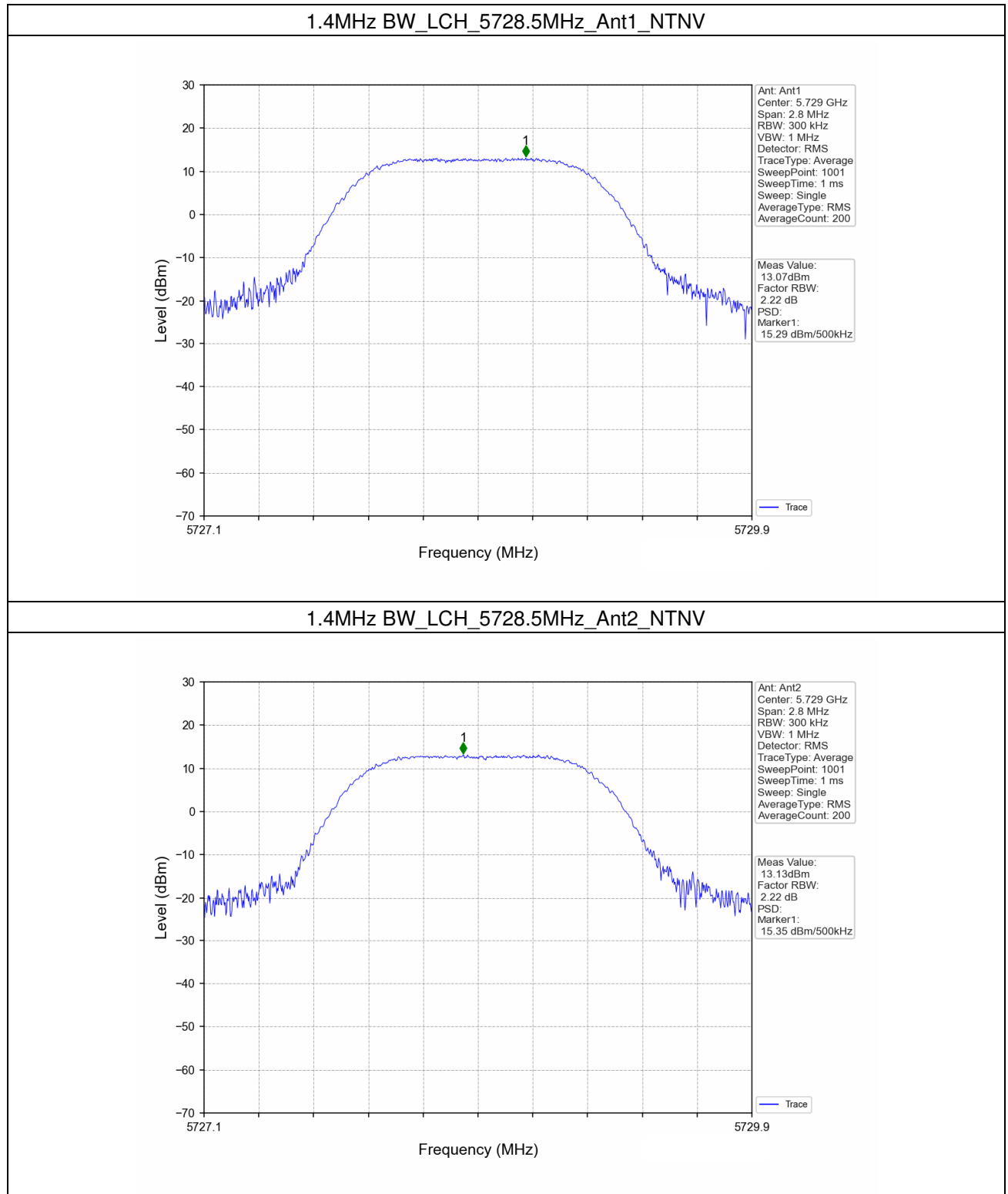
Note3: Antennas 1+2, 1+4, 2+3 and 3+4 were tested. Only the worst case (Antenna 1+2) was recorded in the report.



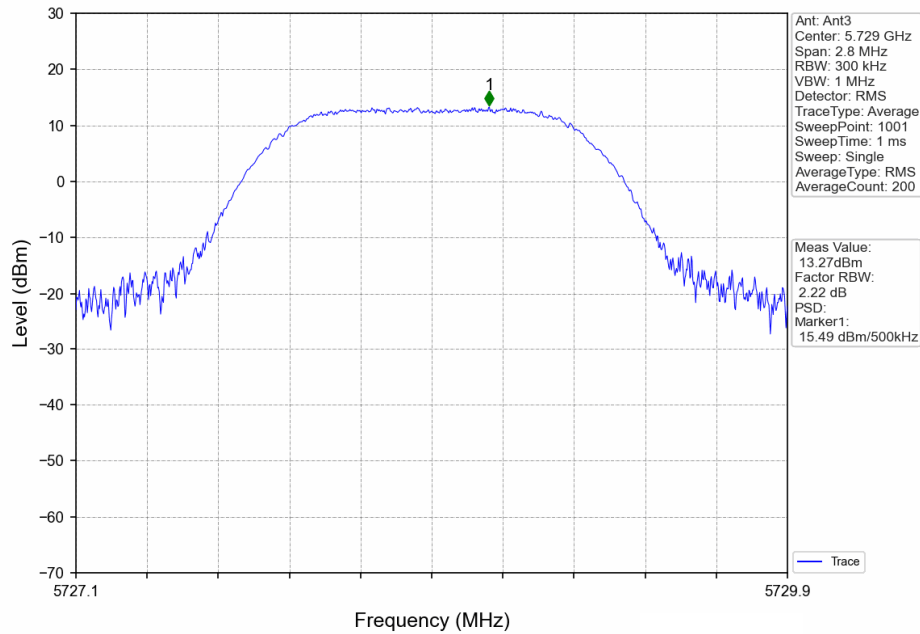
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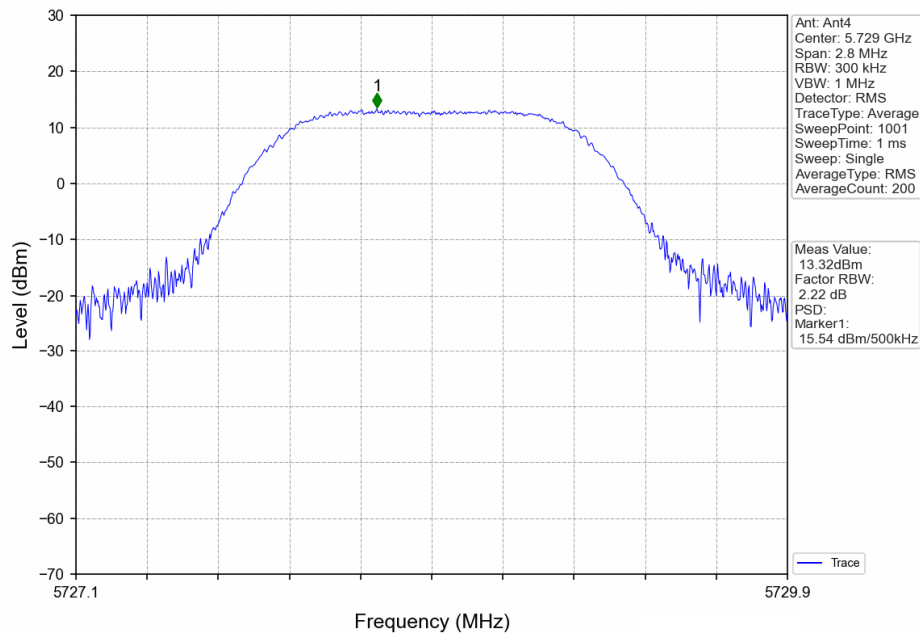
4.1.2 Test Graph



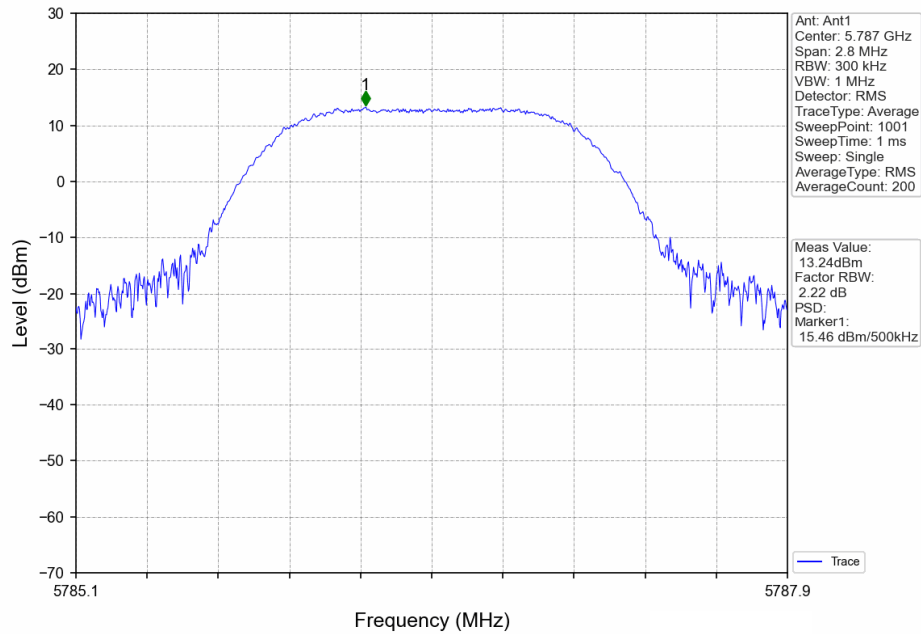
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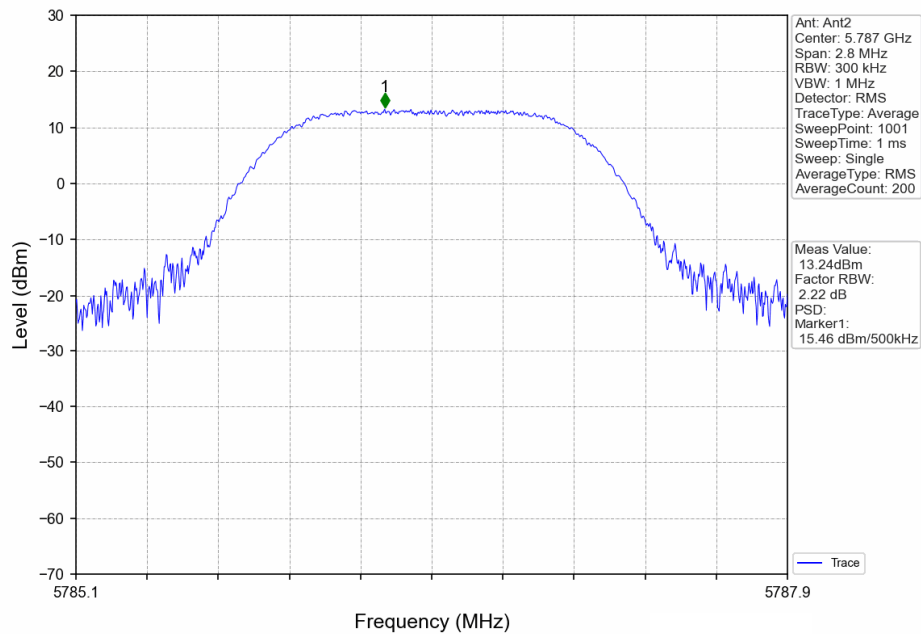
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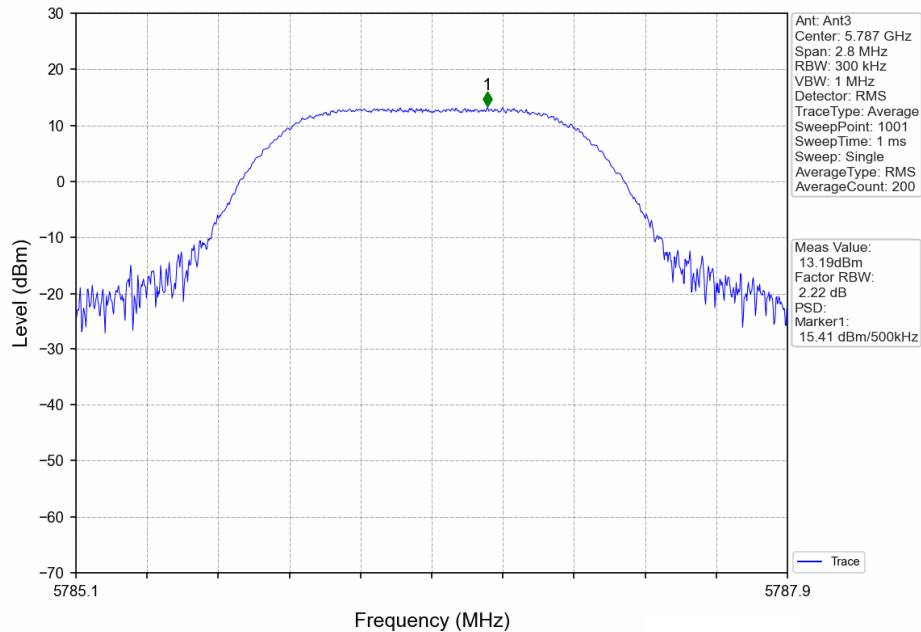
1.4MHz BW_MCH_5786.5MHz_Ant1_NTNV



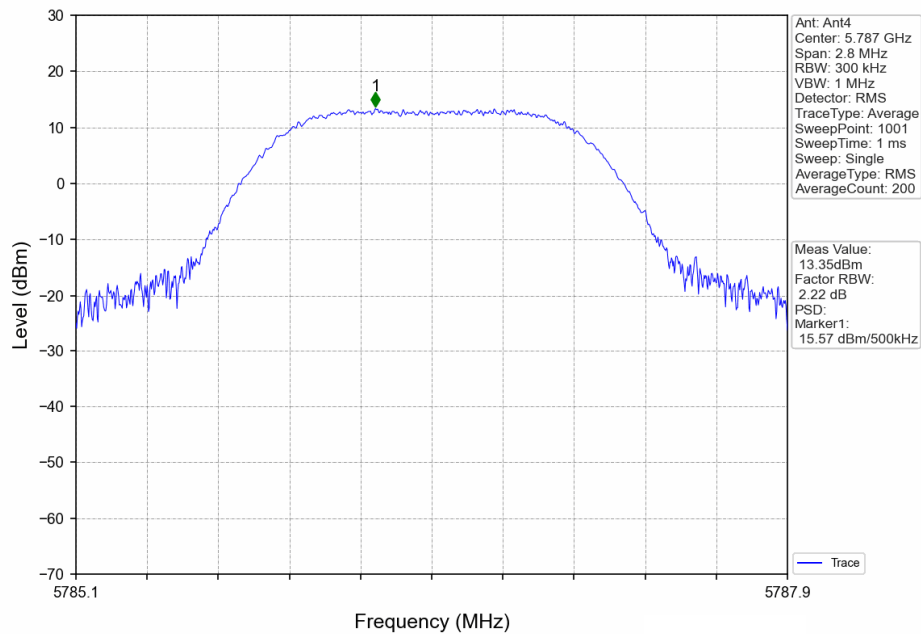
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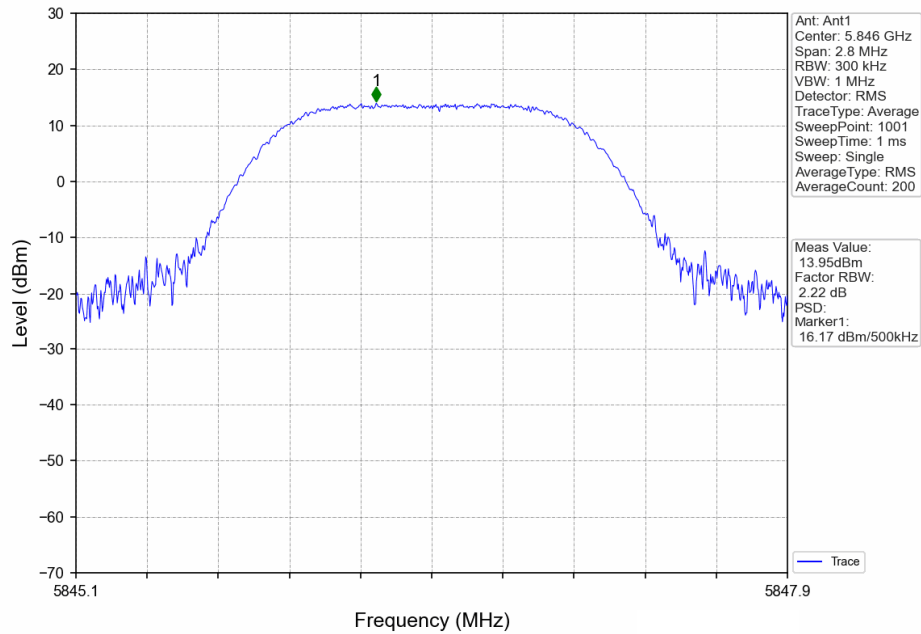
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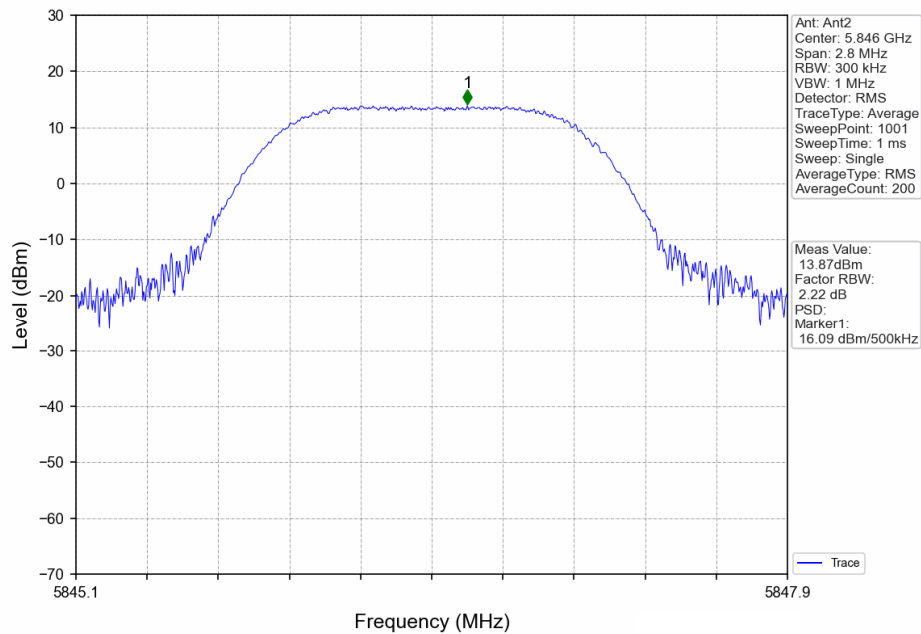
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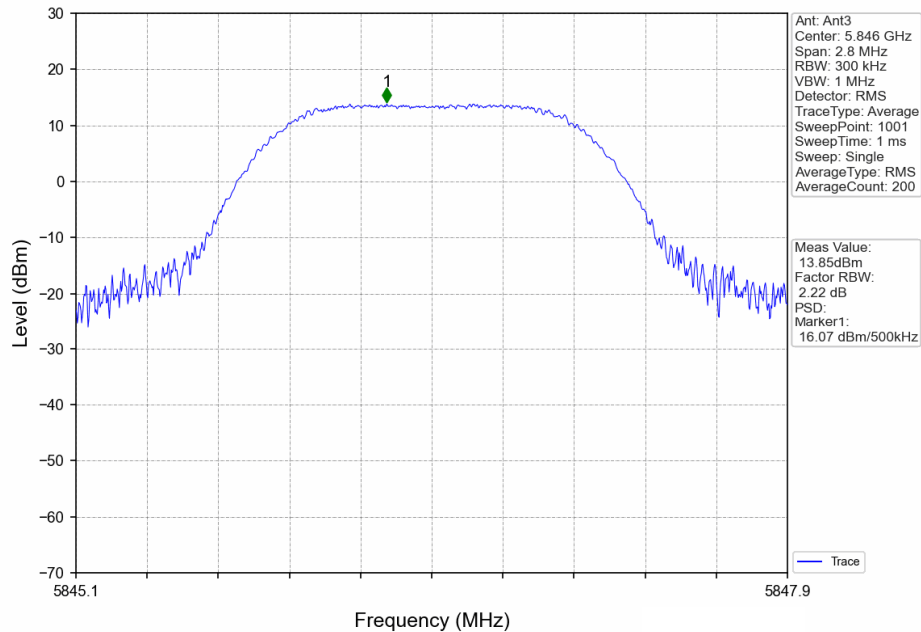
1.4MHz BW_HCH_5846.5MHz_Ant1_NTNV



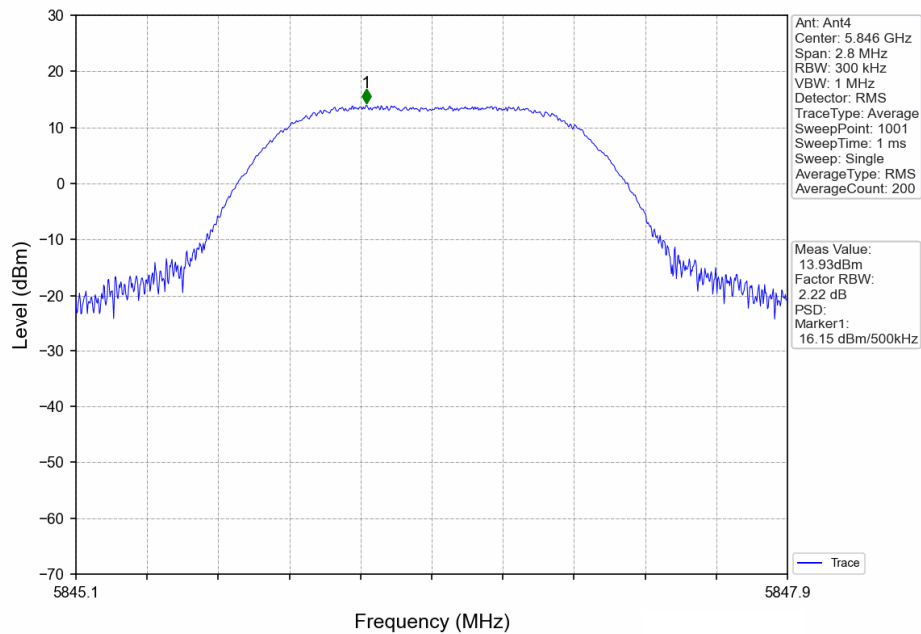
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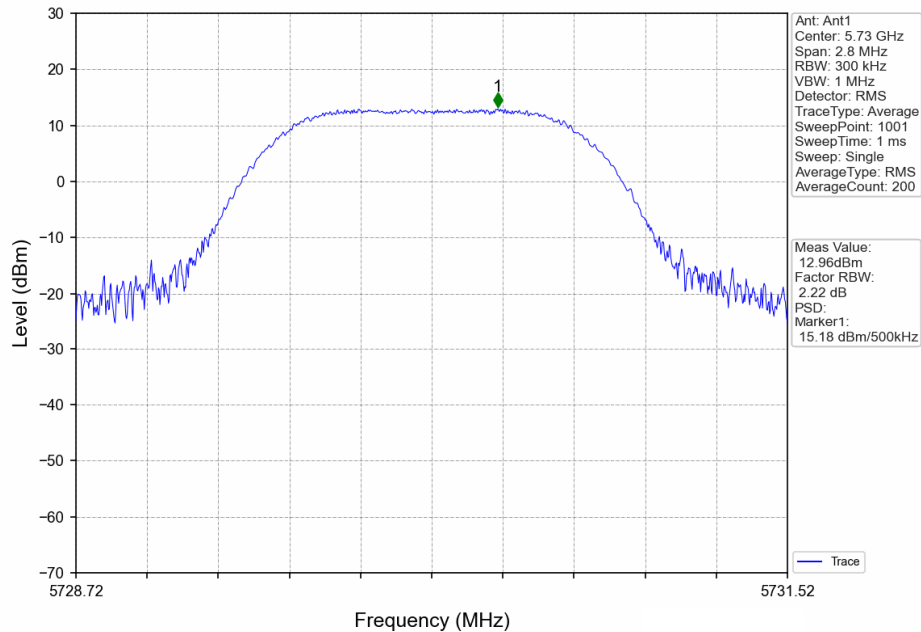
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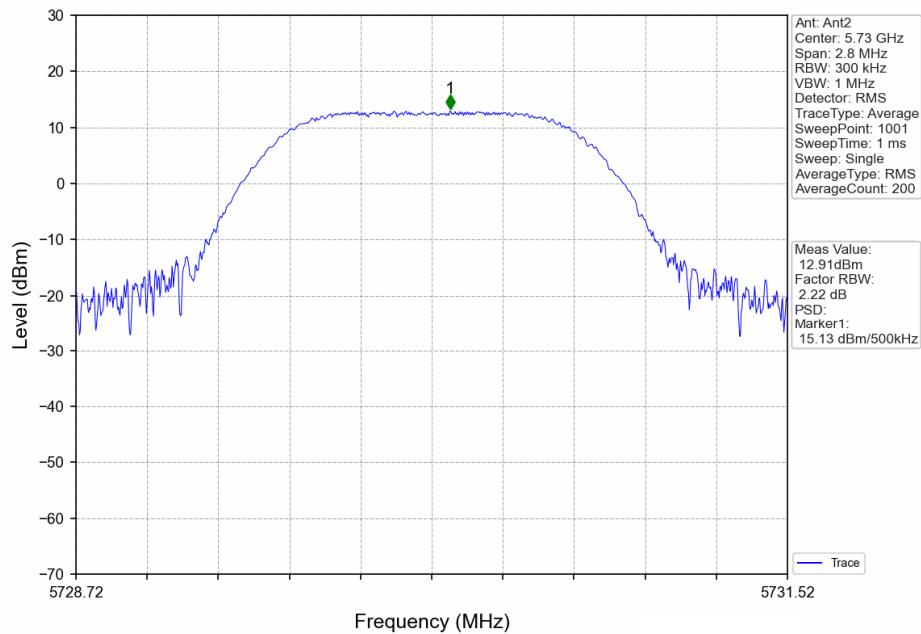
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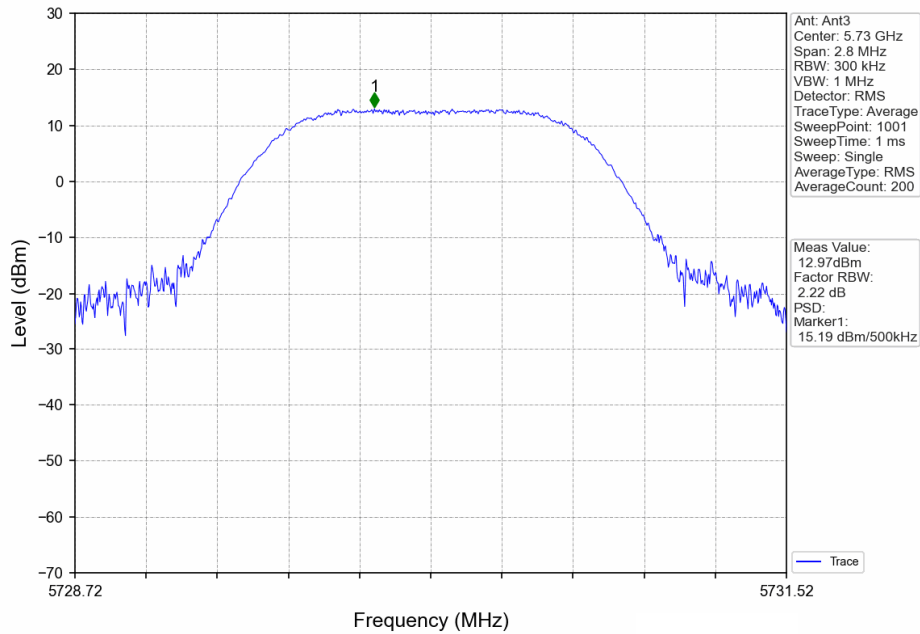
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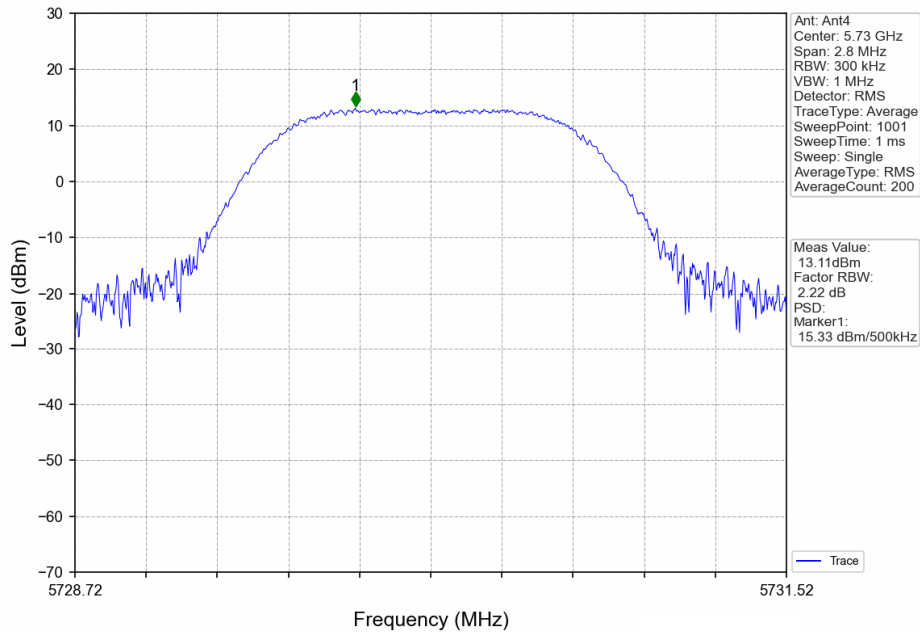
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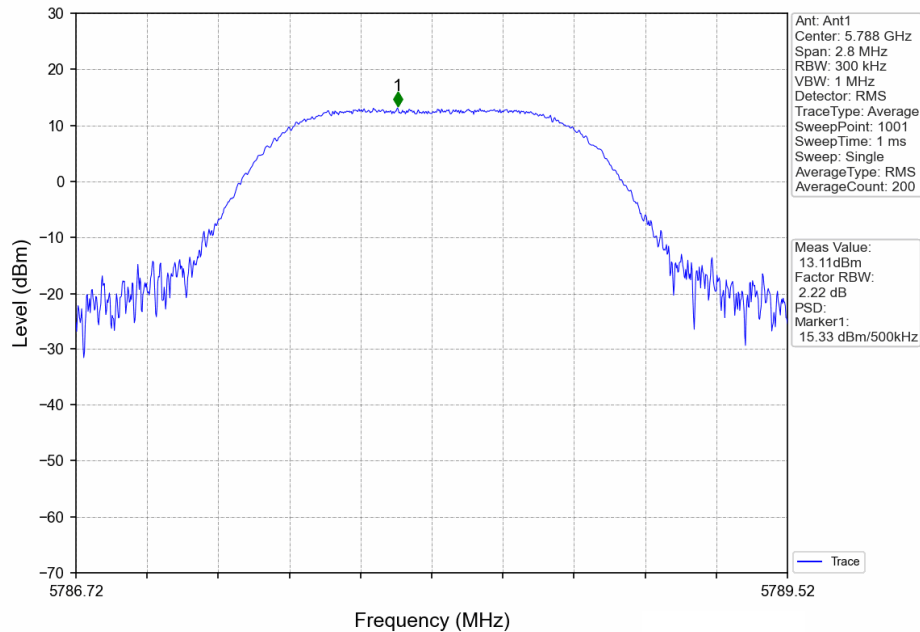
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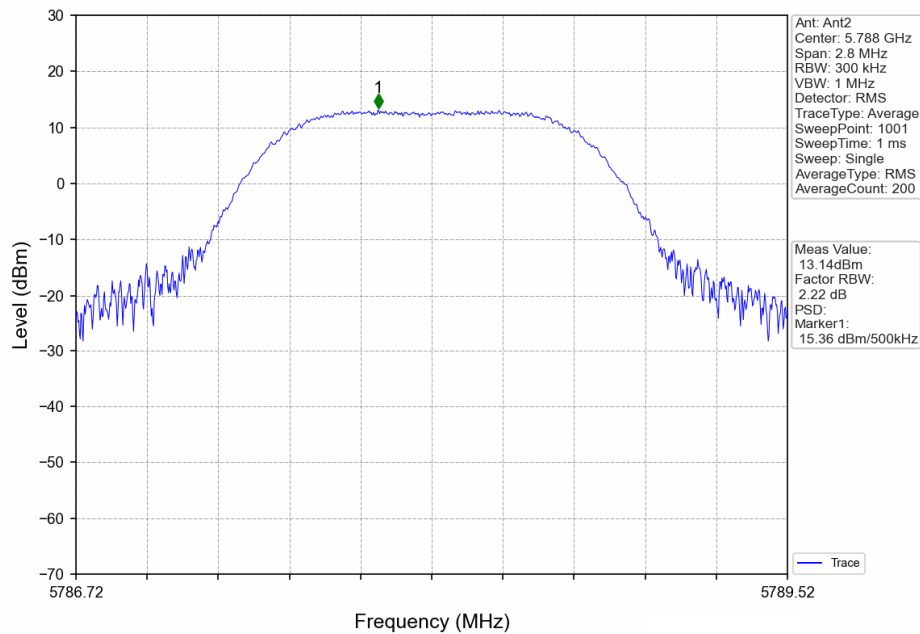
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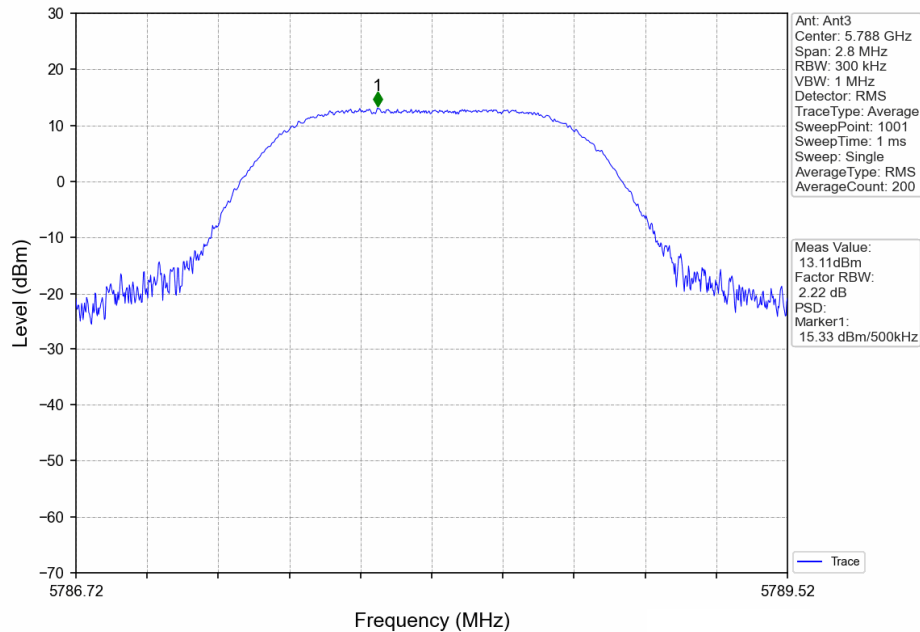
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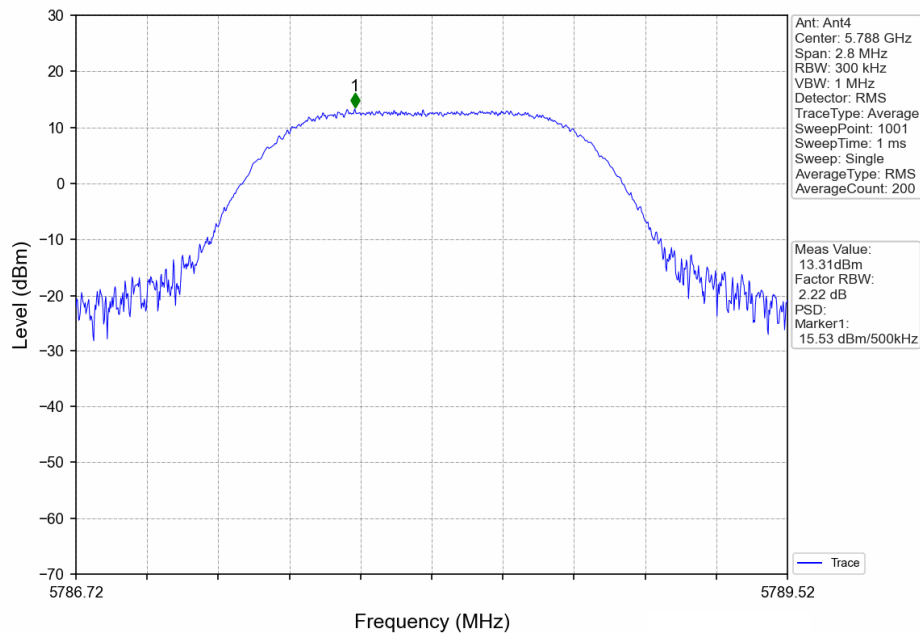
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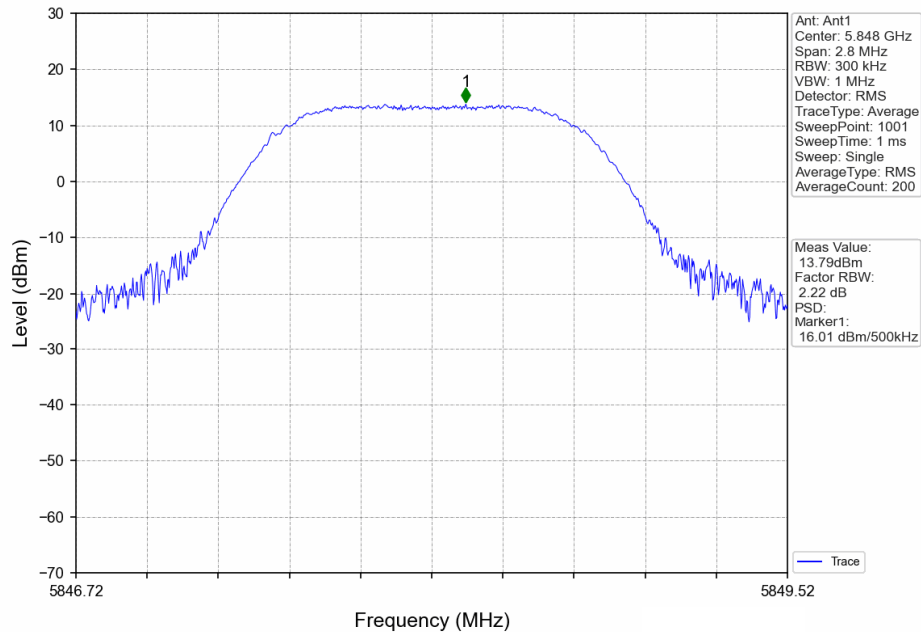
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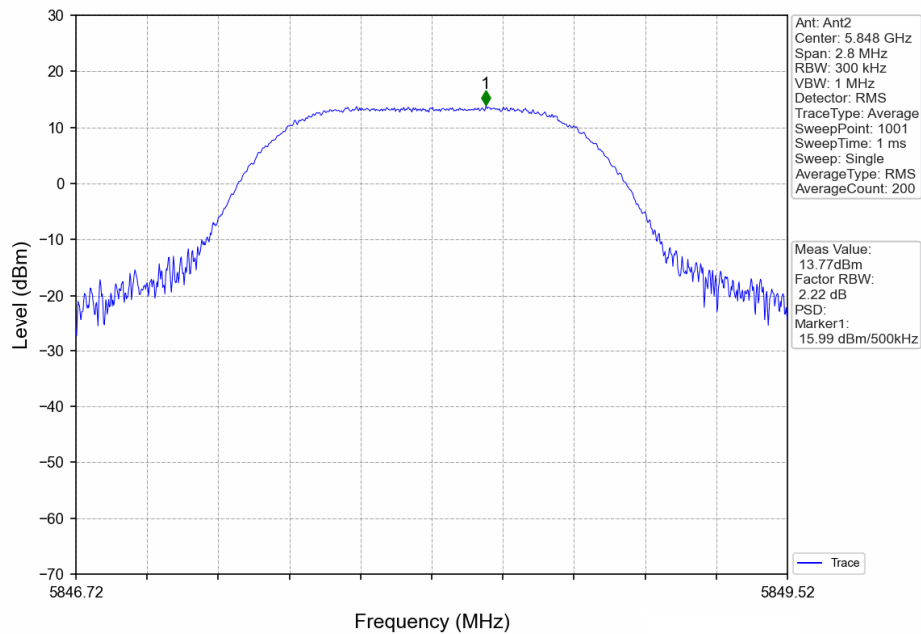
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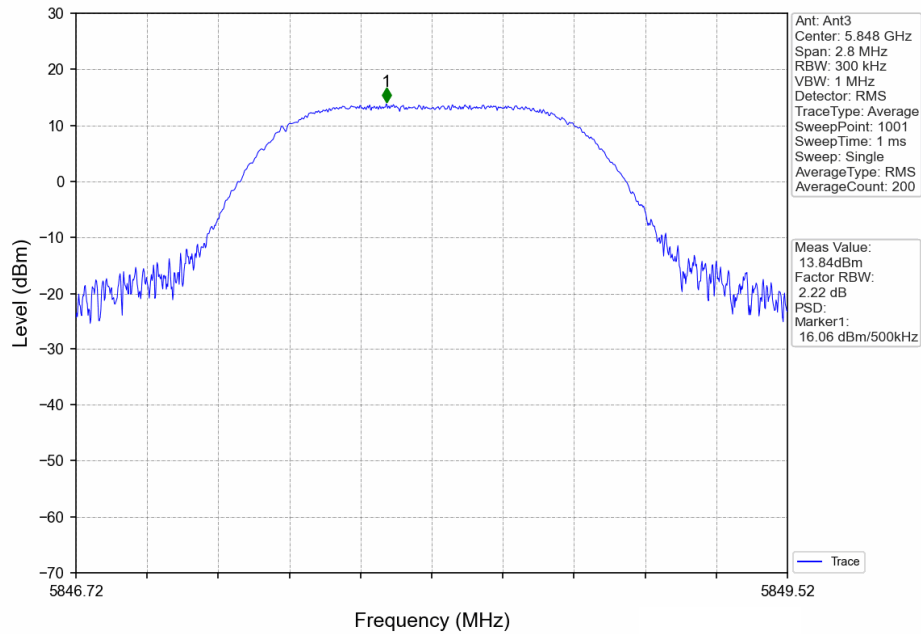
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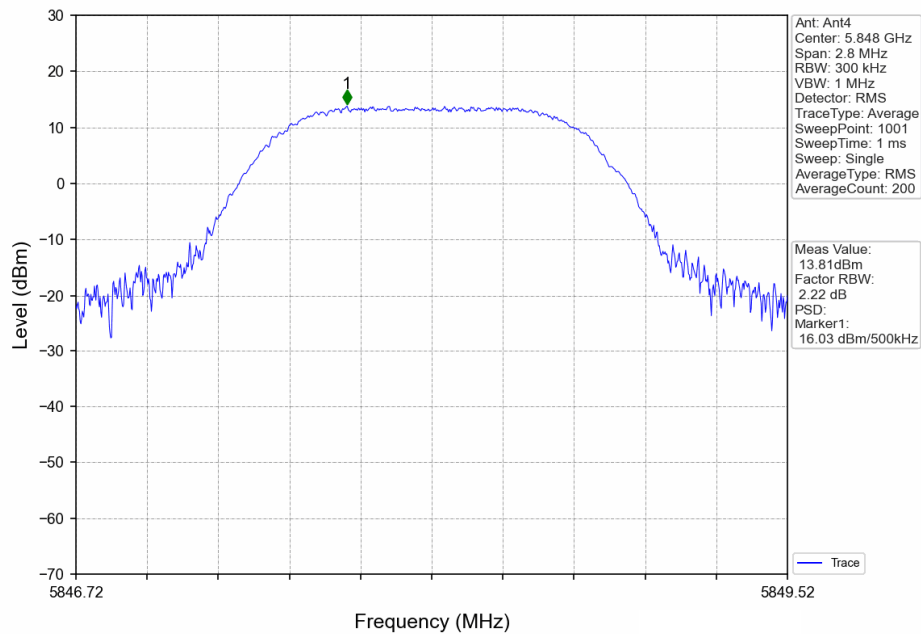
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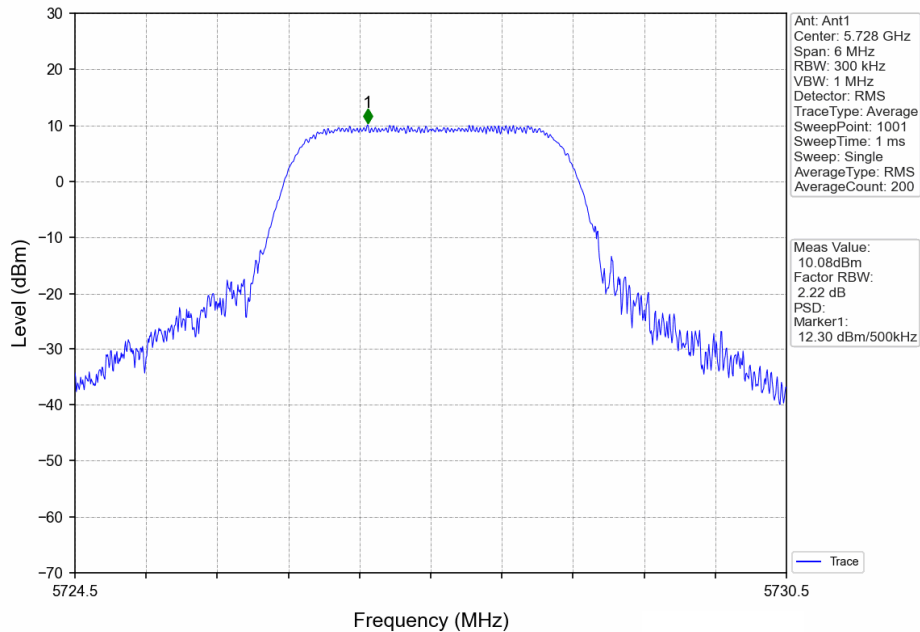
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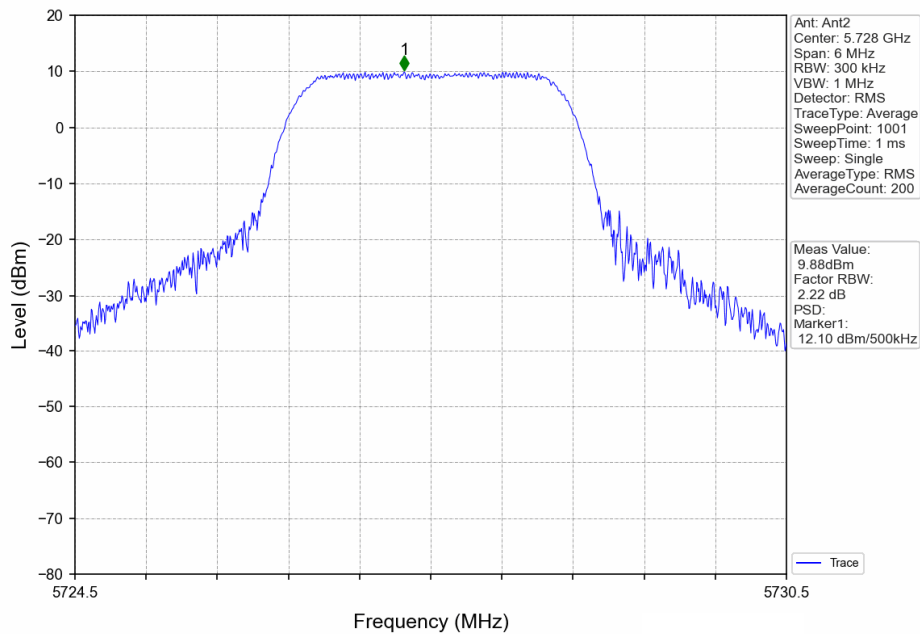
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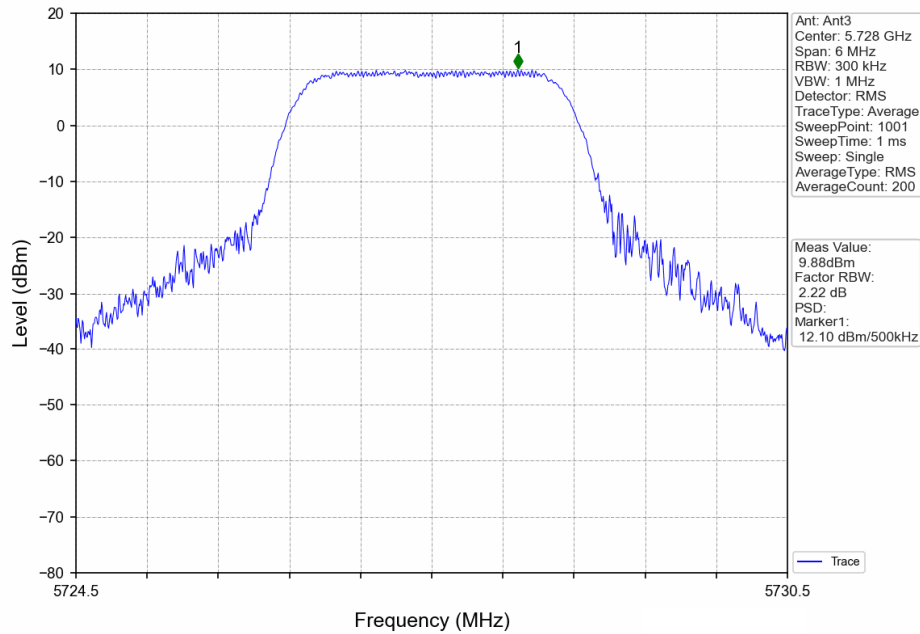
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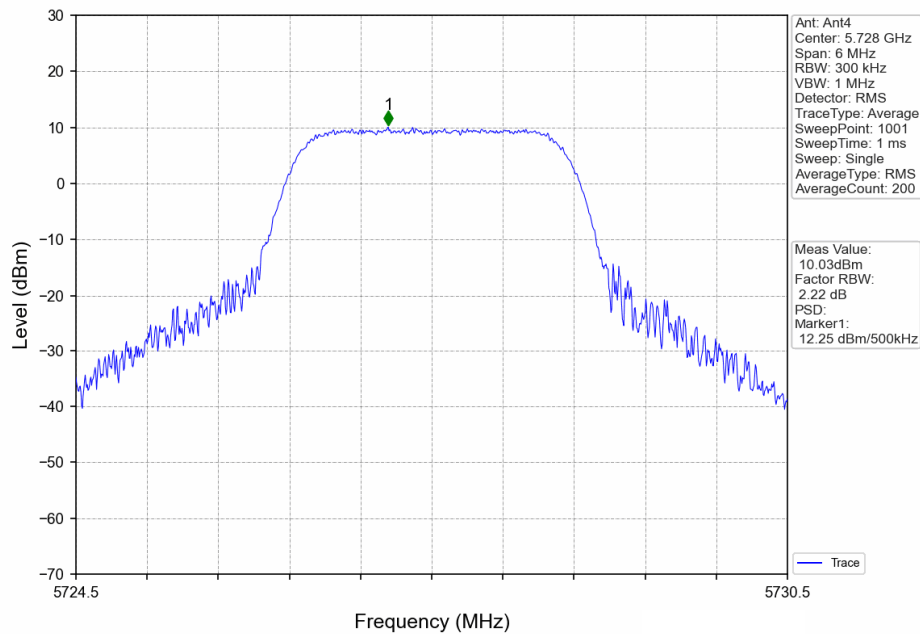
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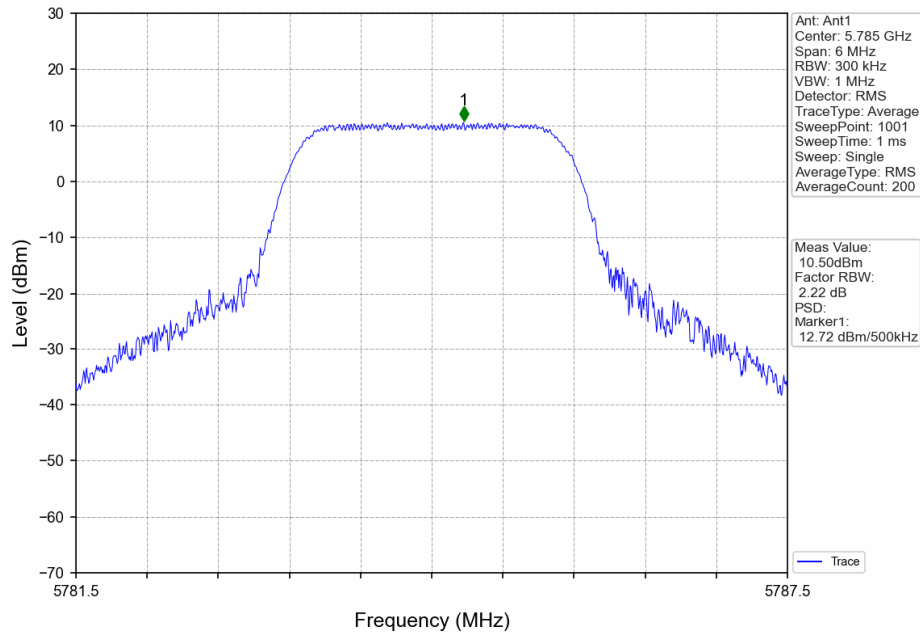
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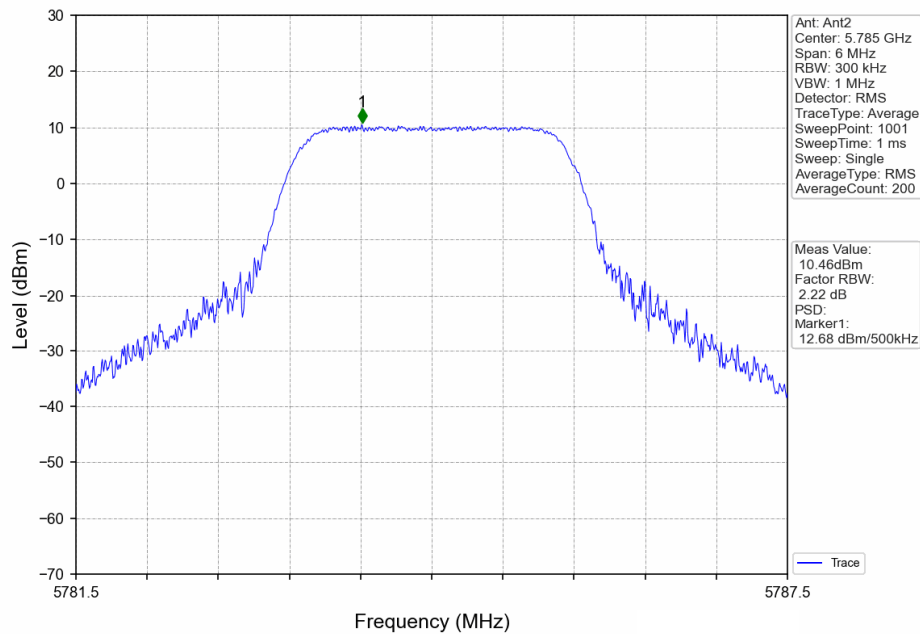
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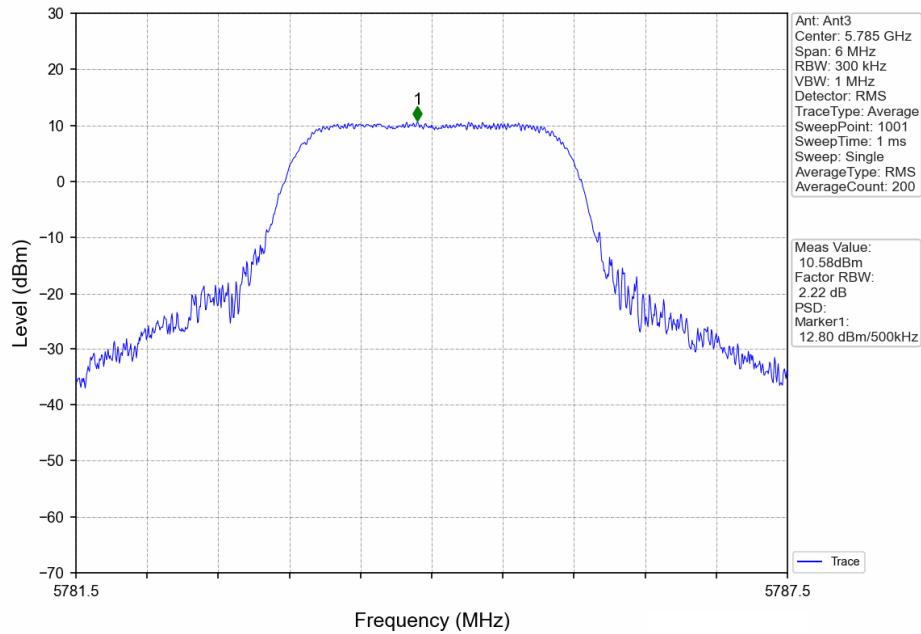
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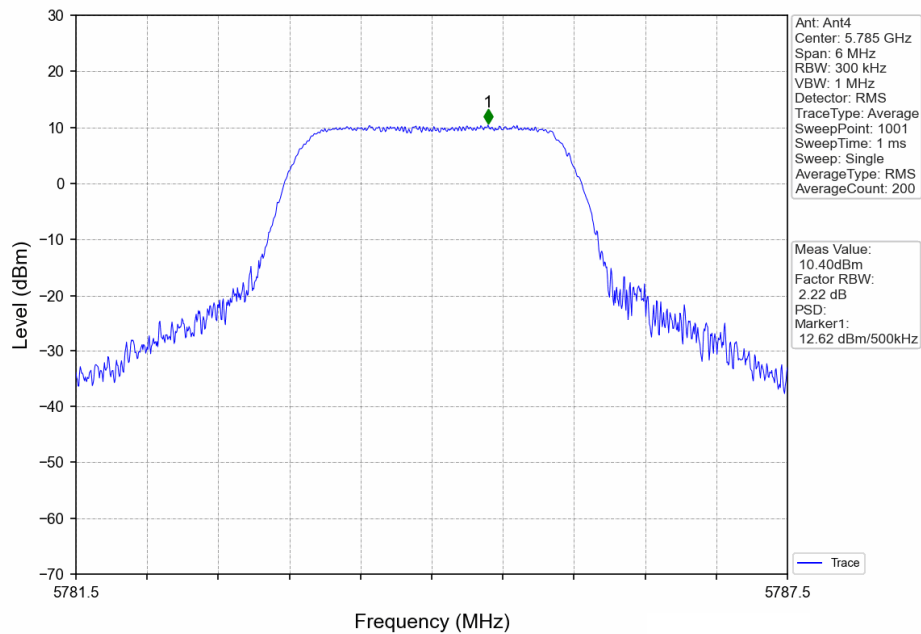
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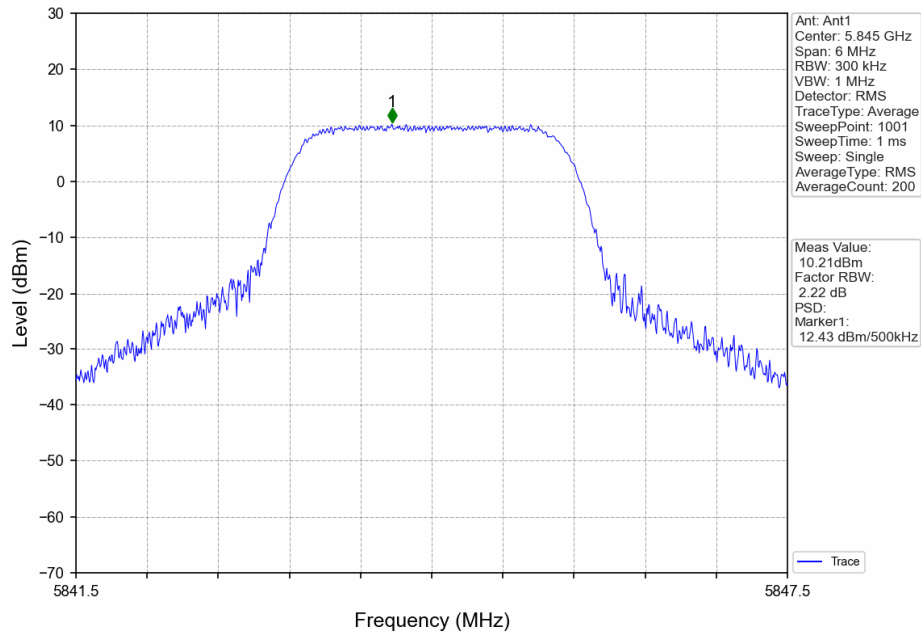
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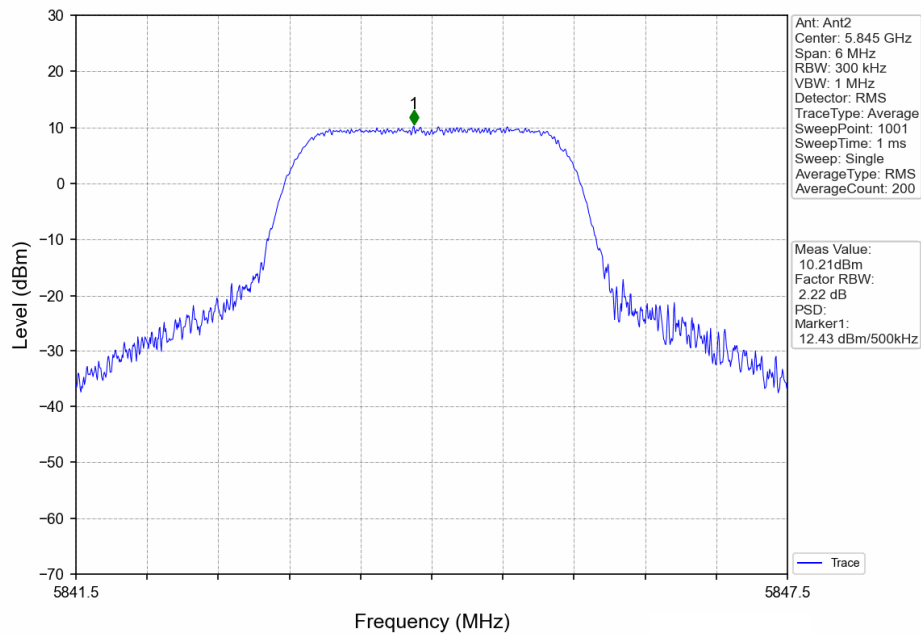
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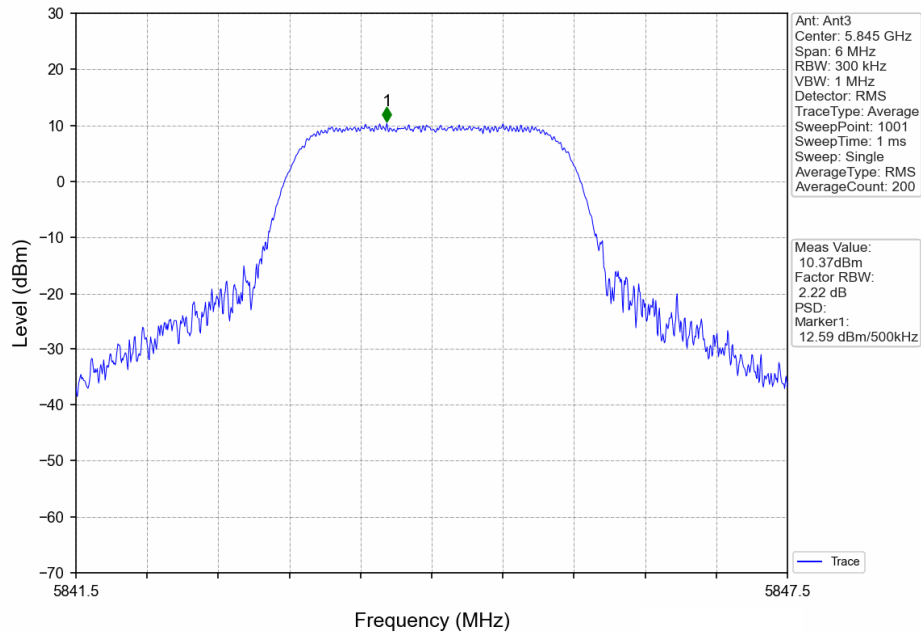
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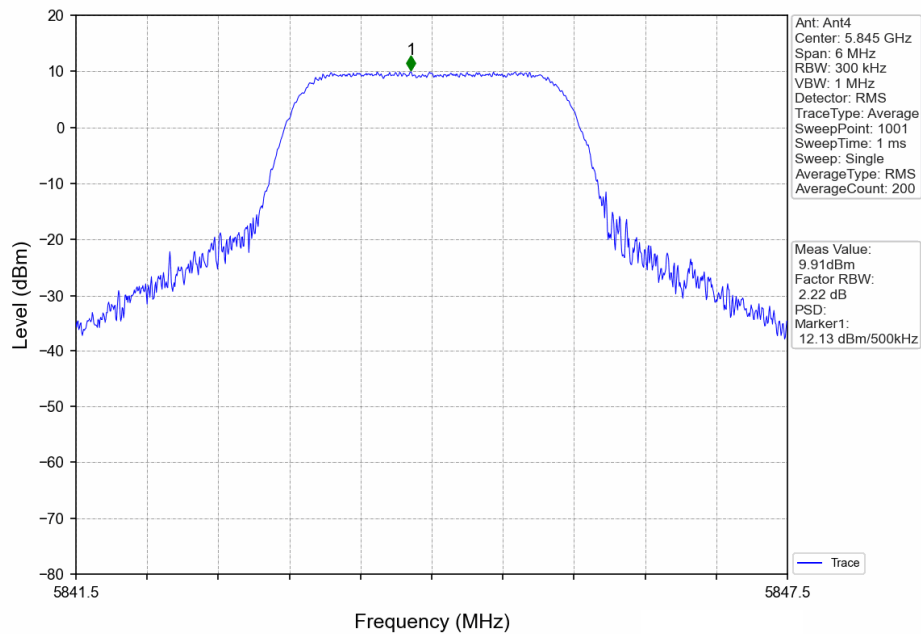
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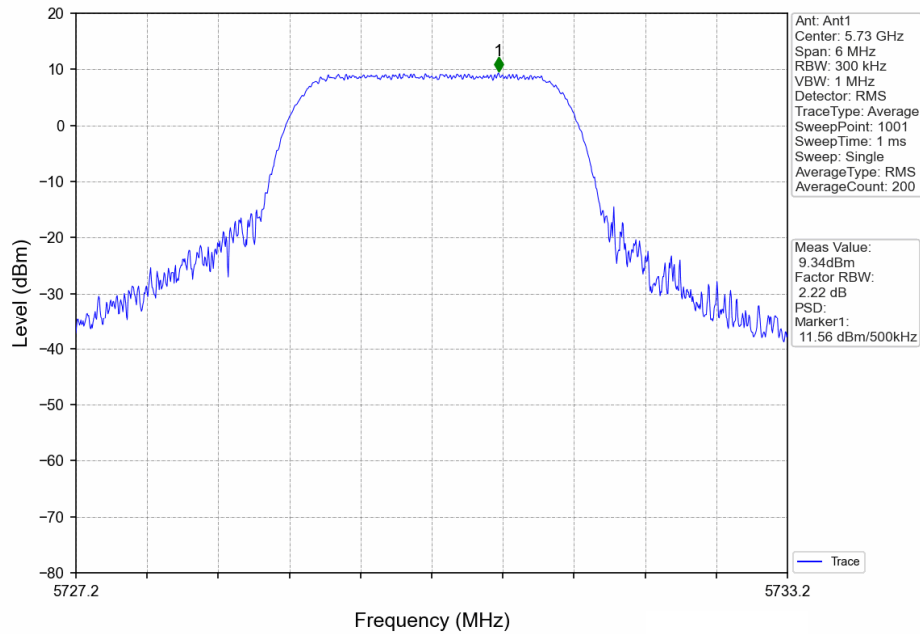
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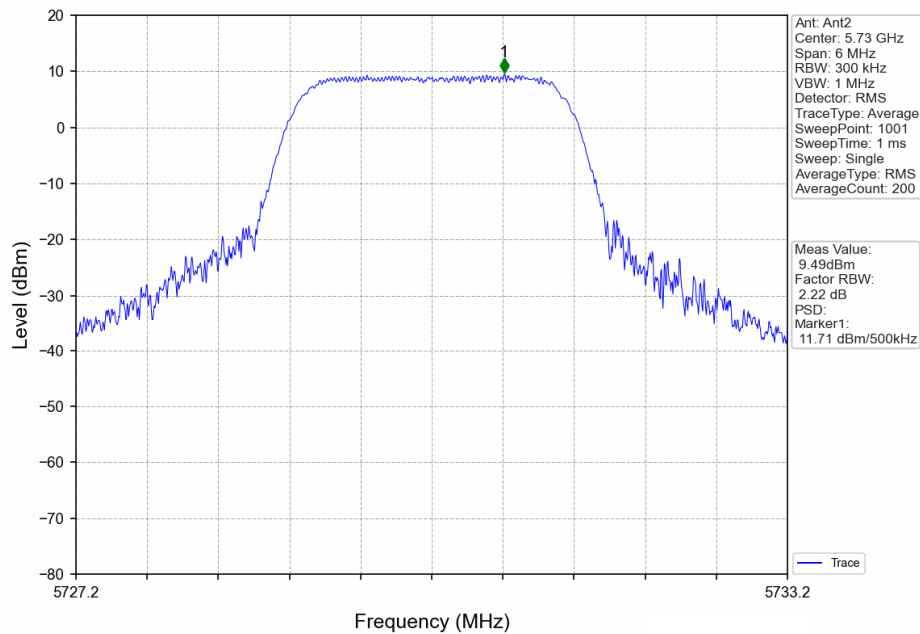
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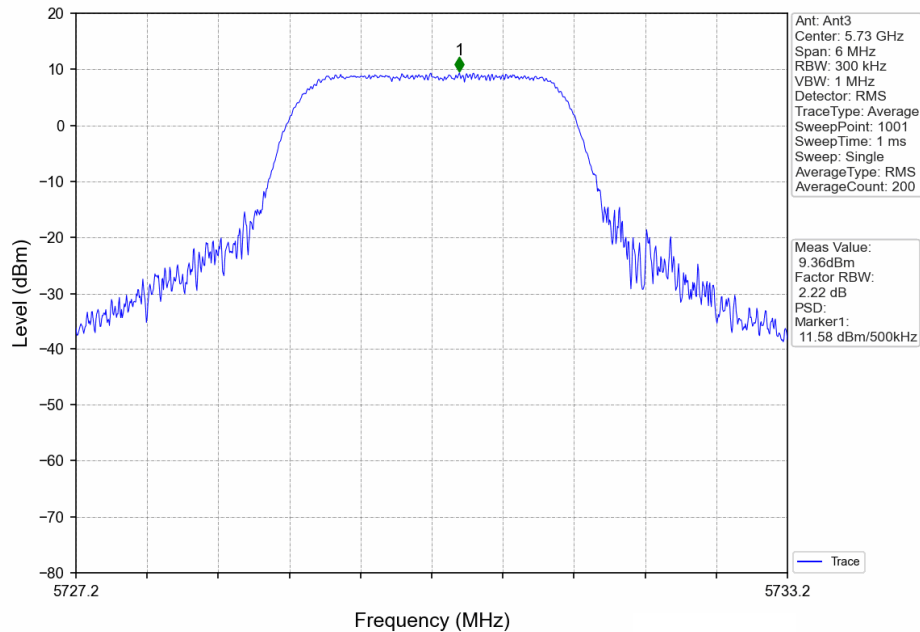
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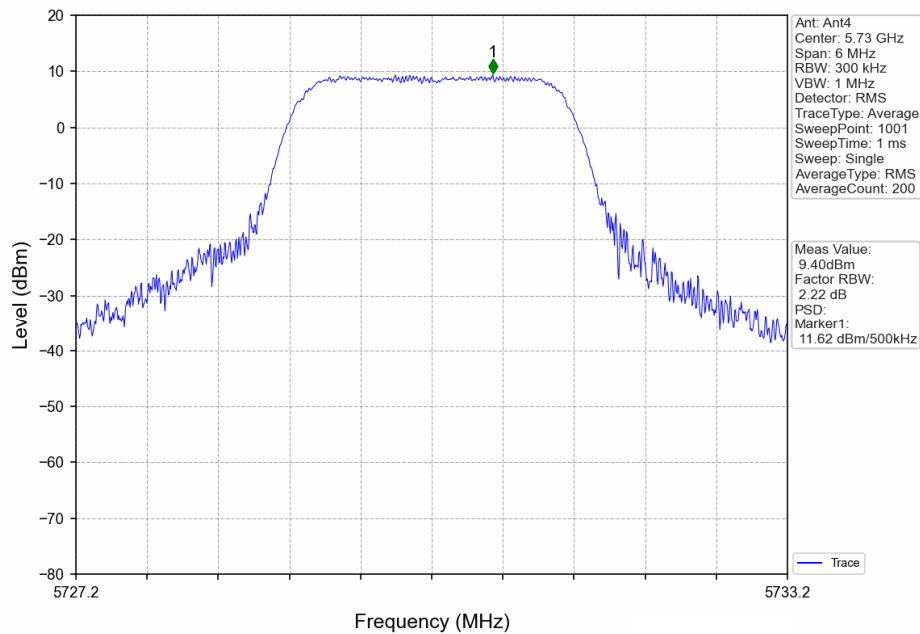
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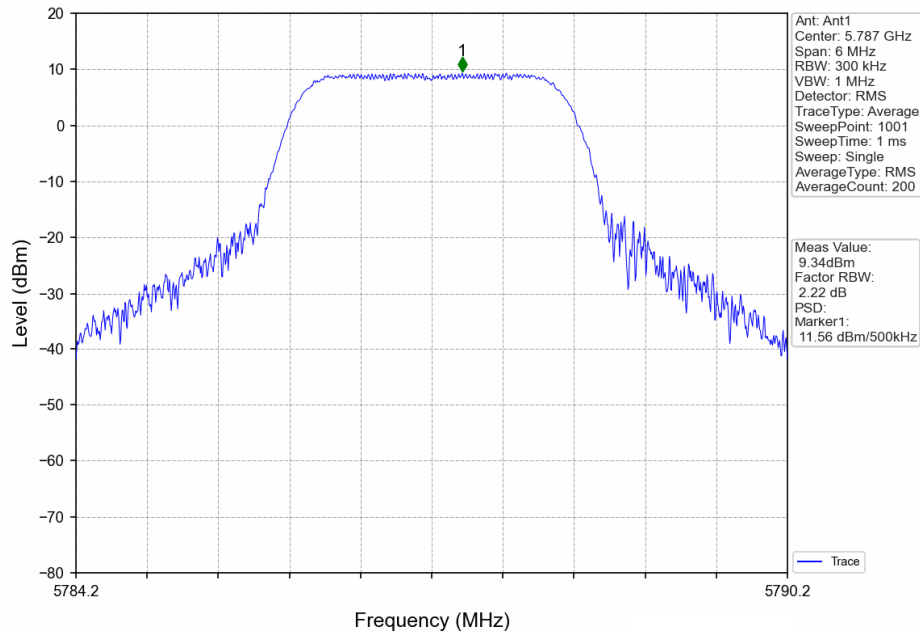
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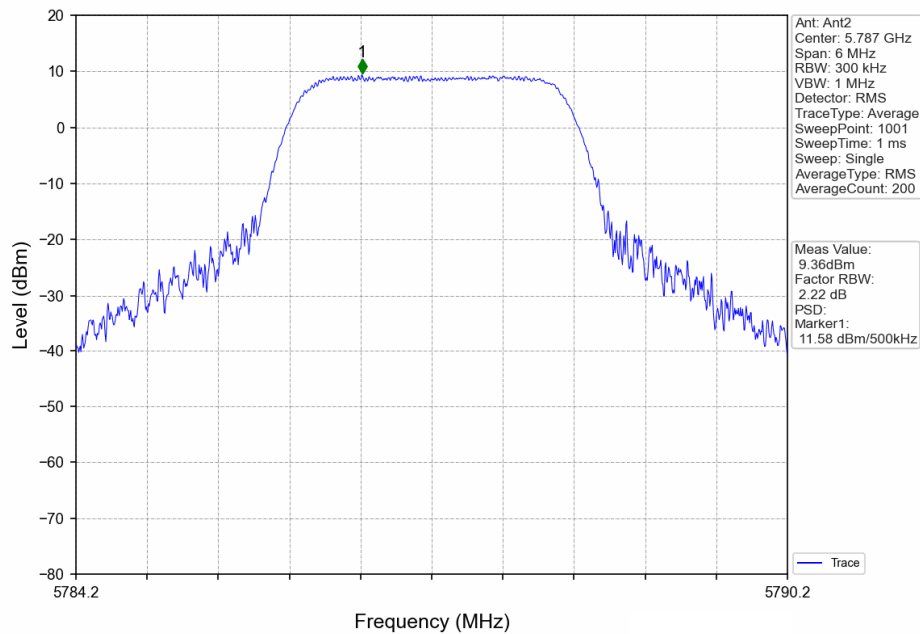
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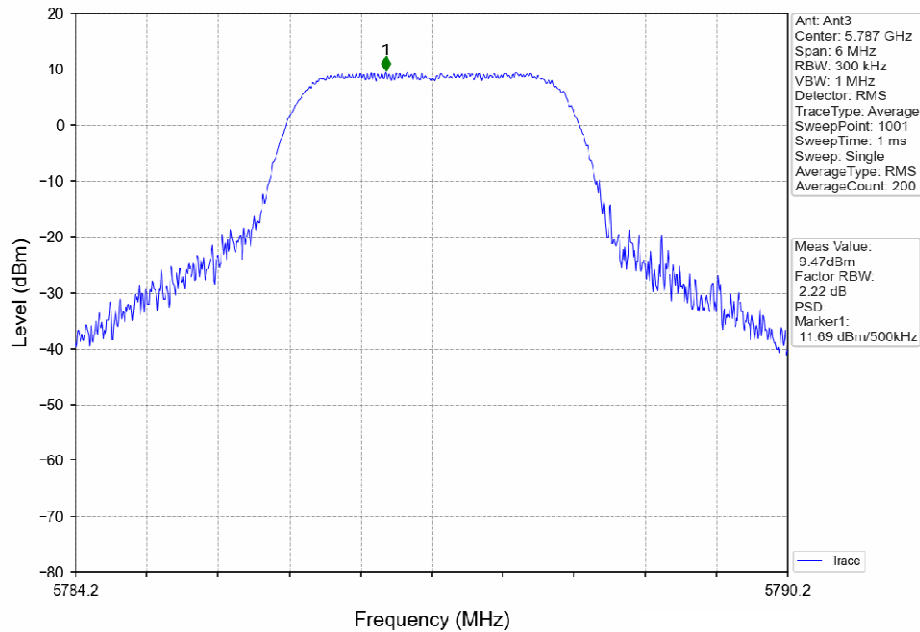
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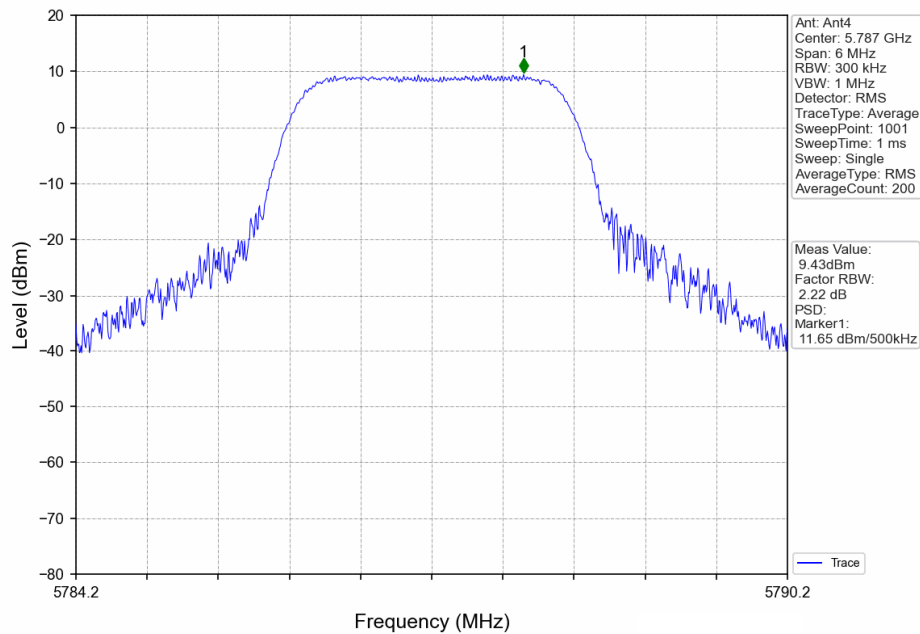
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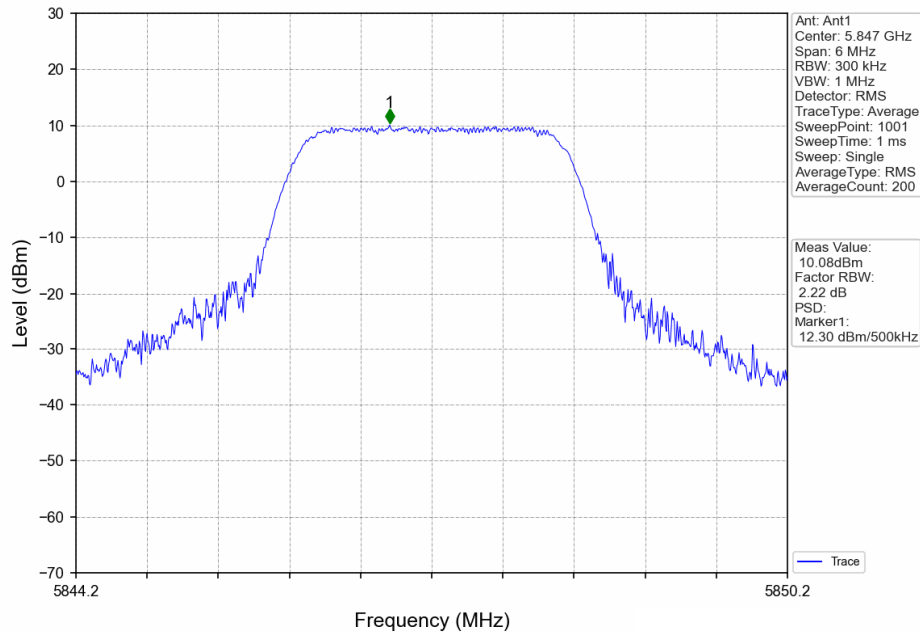
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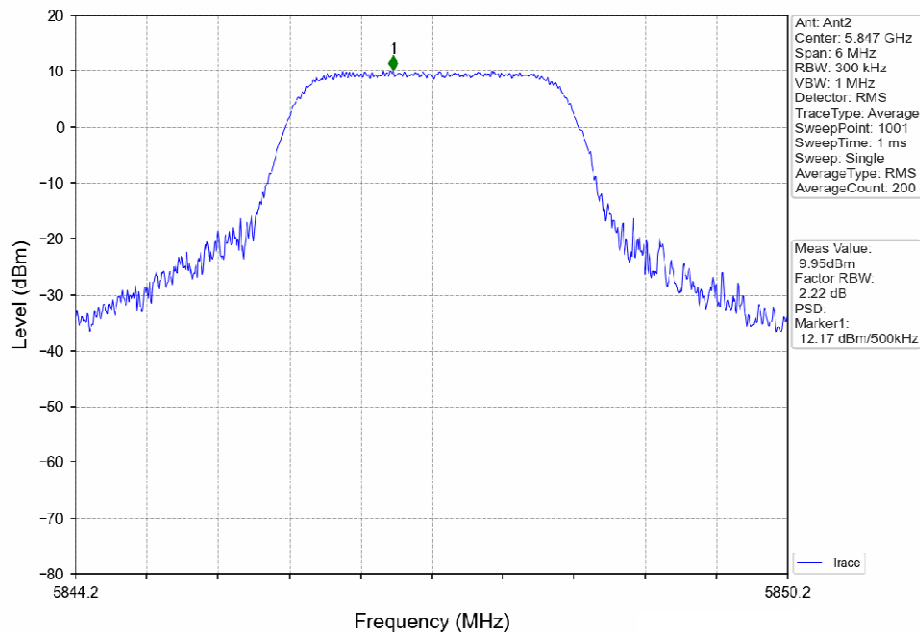
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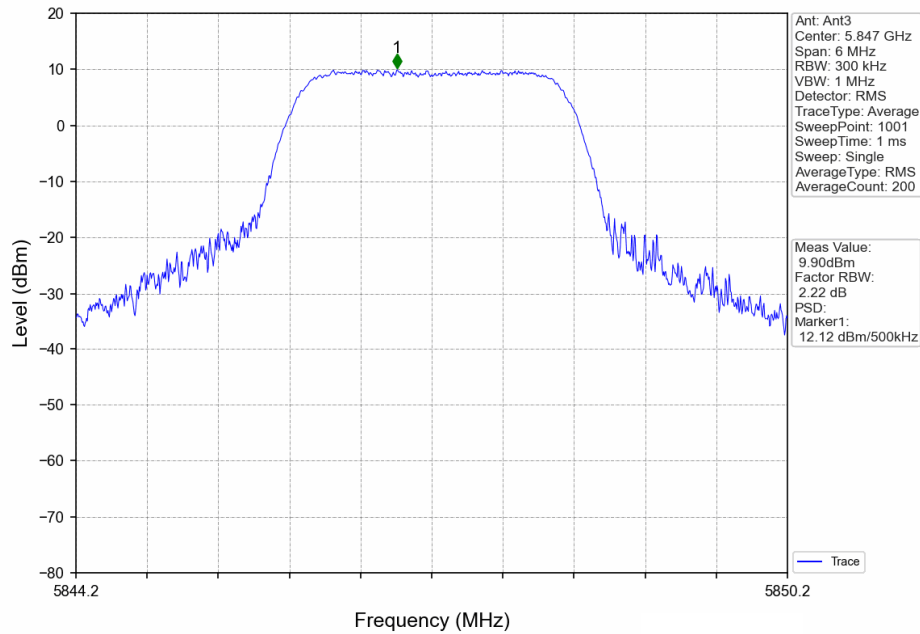
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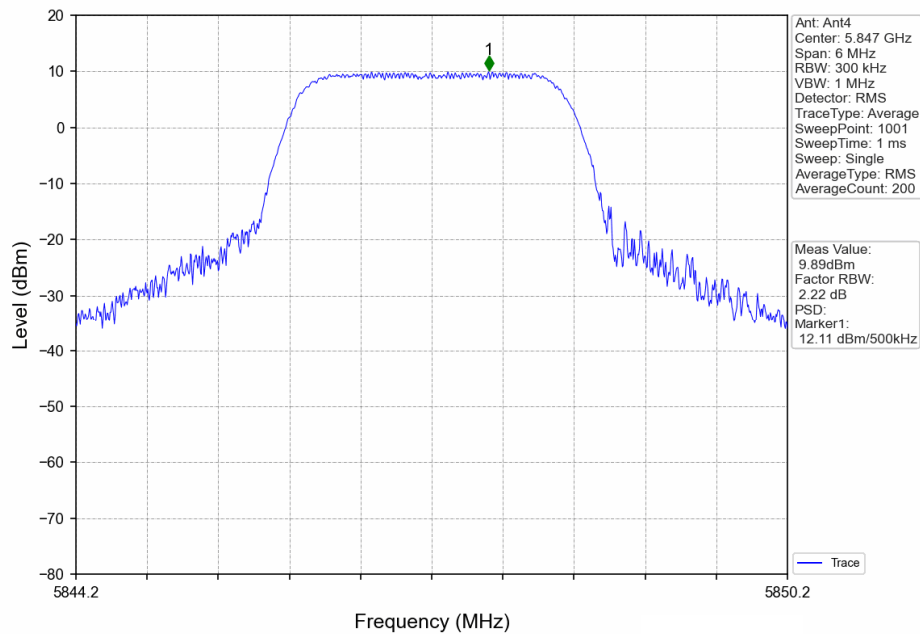
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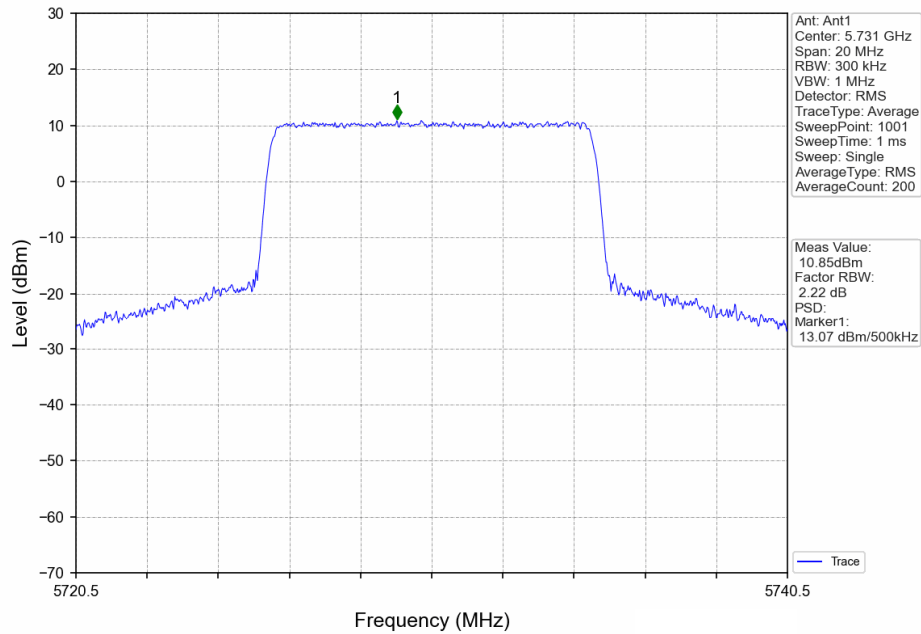
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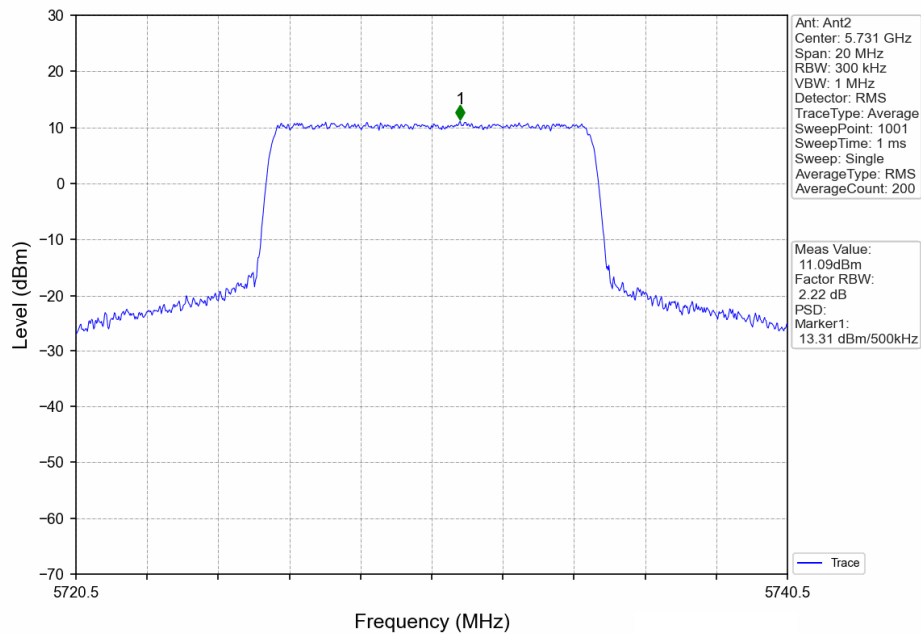
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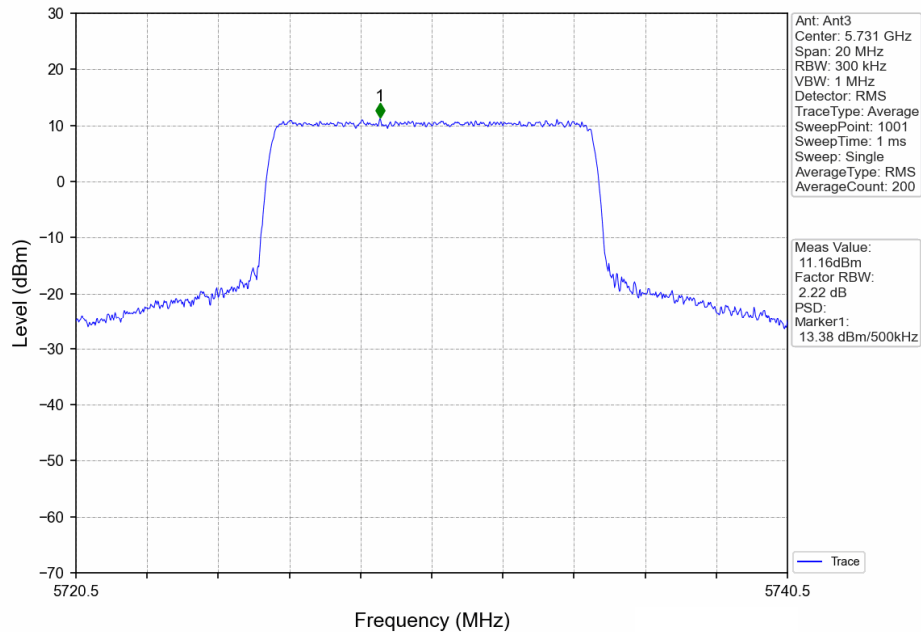
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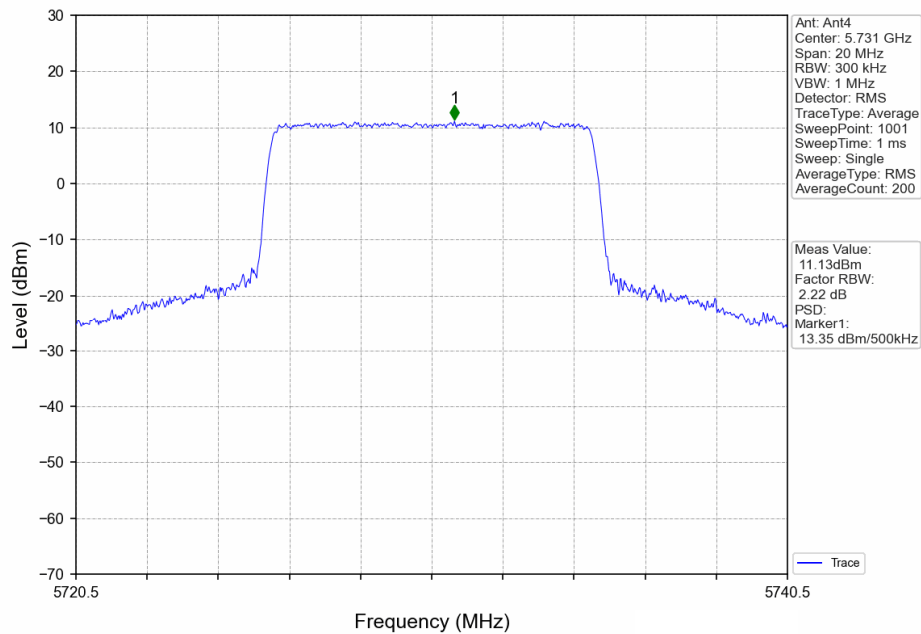
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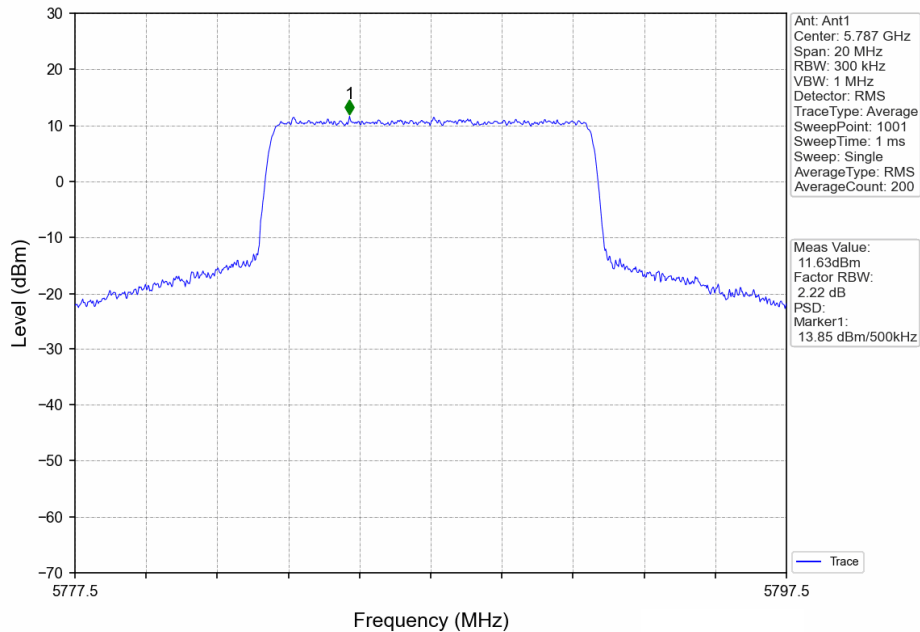
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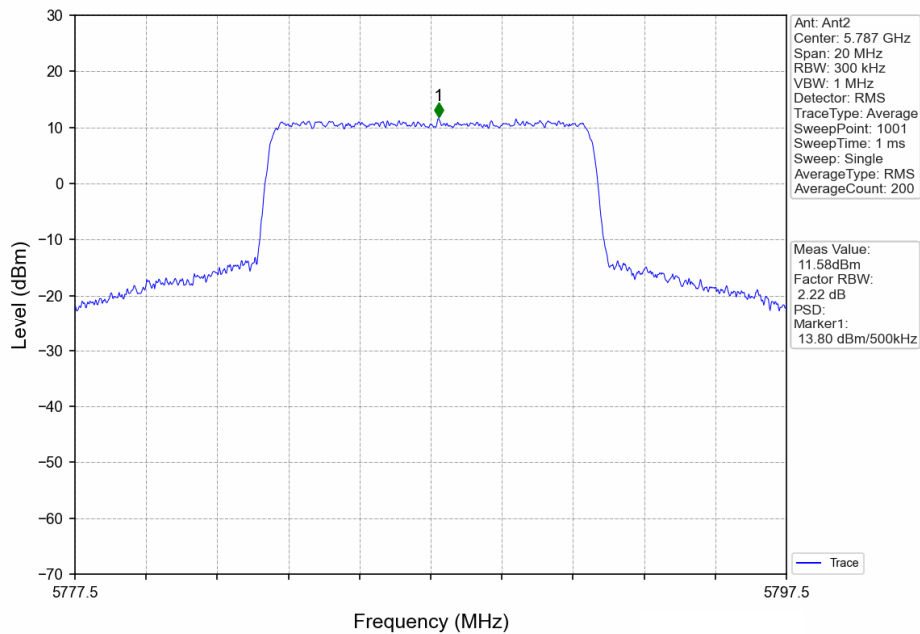
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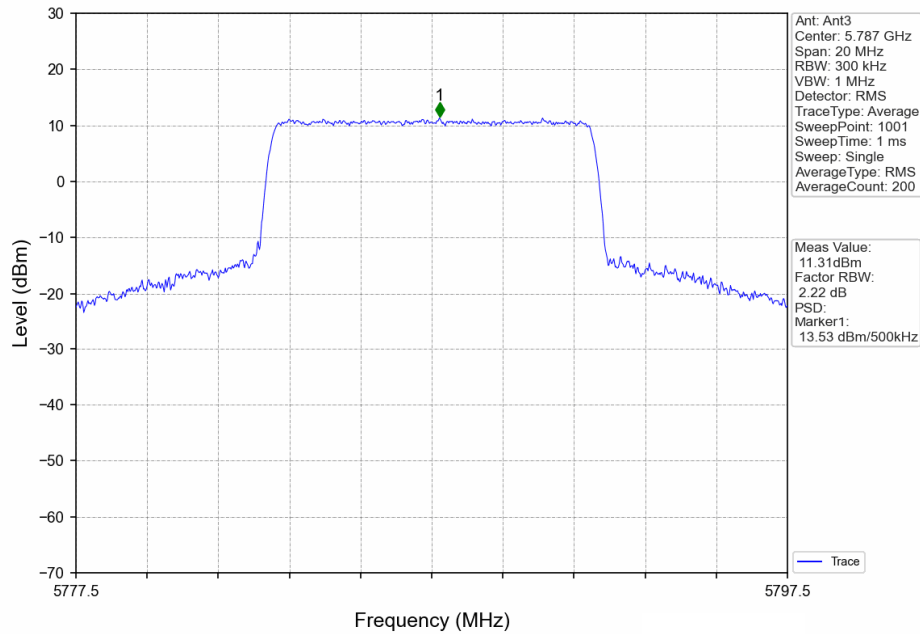
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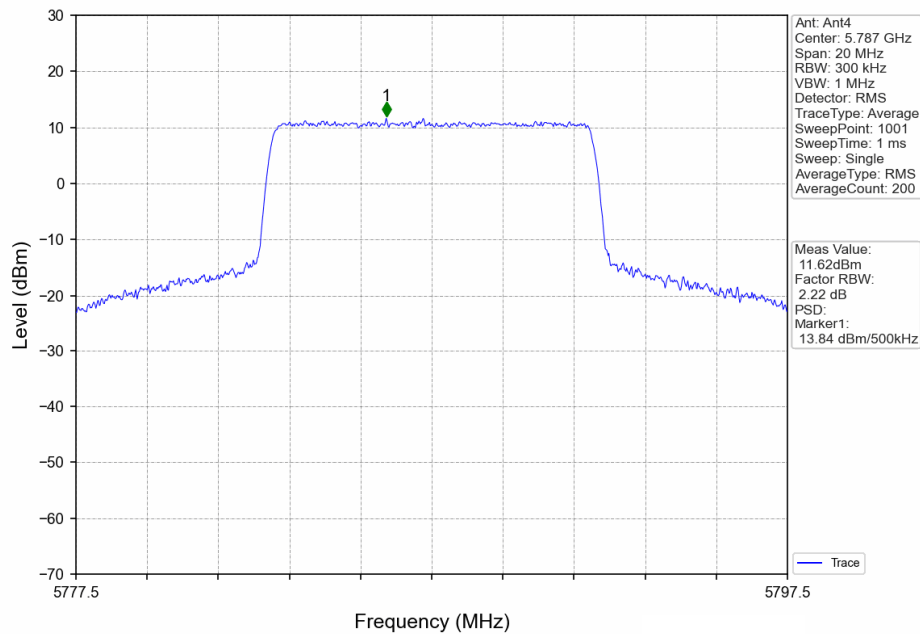
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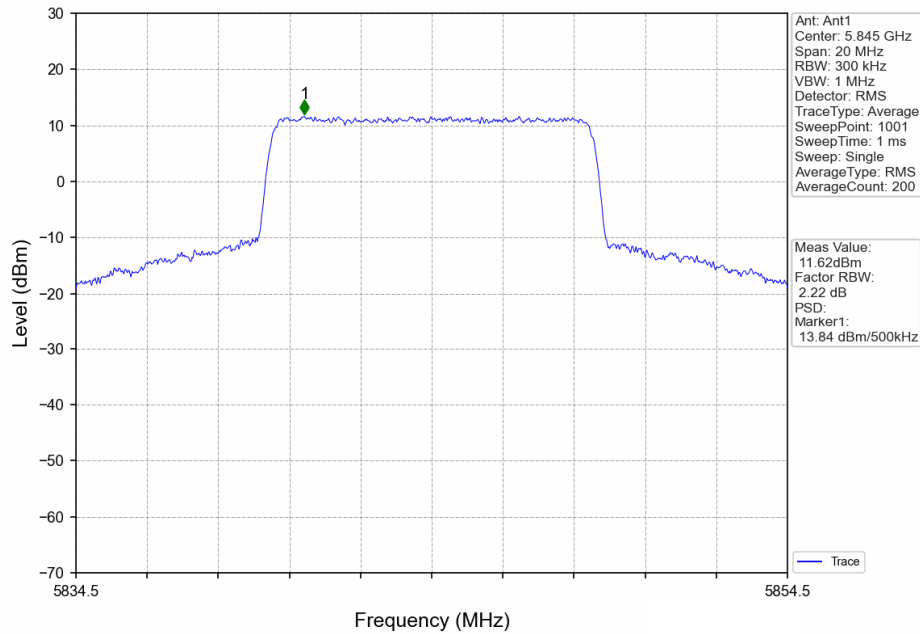
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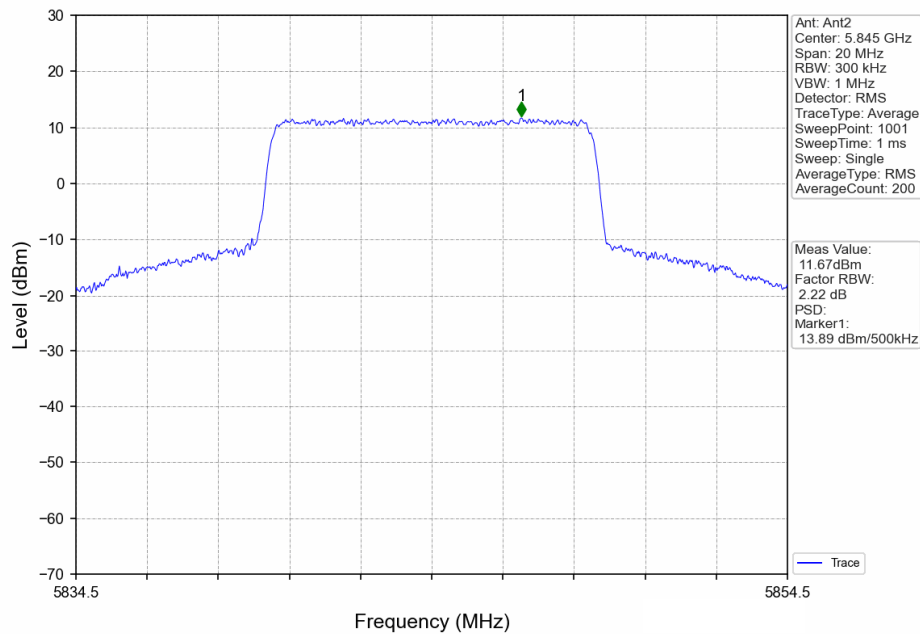
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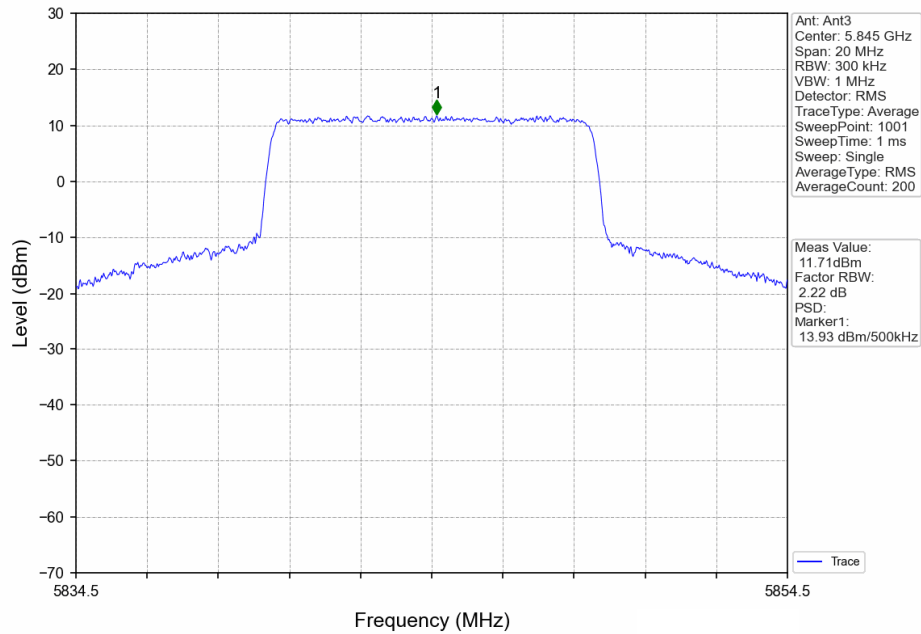
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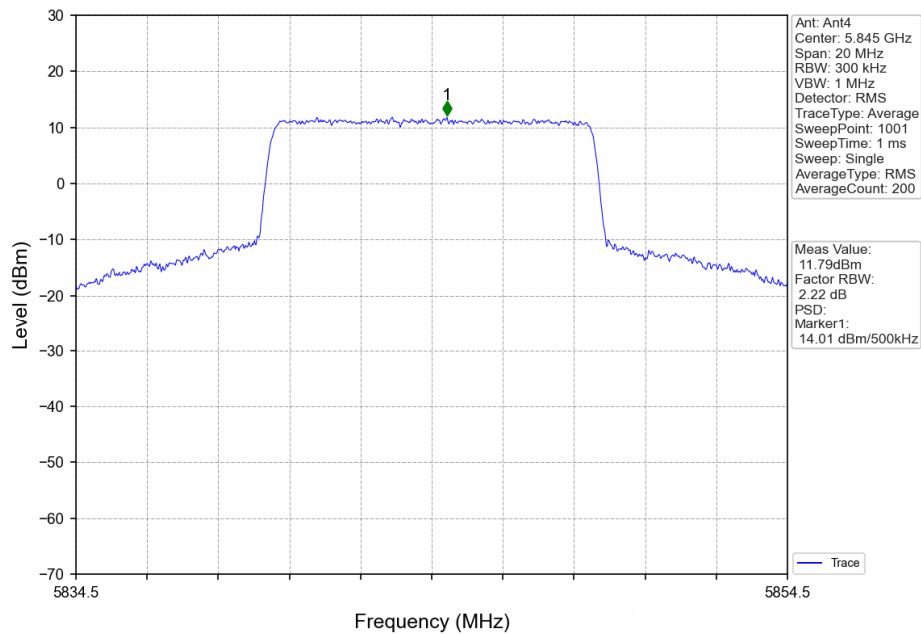
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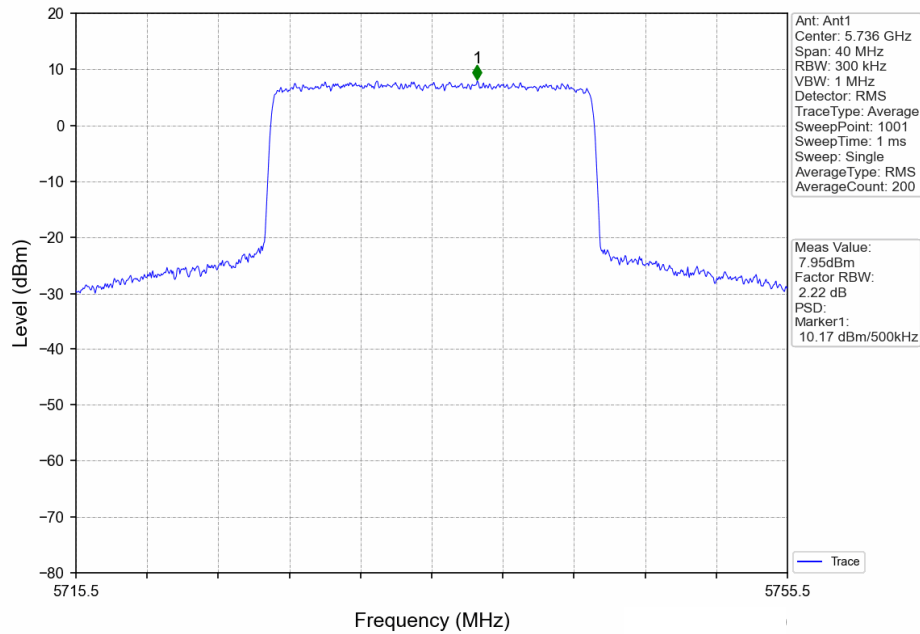
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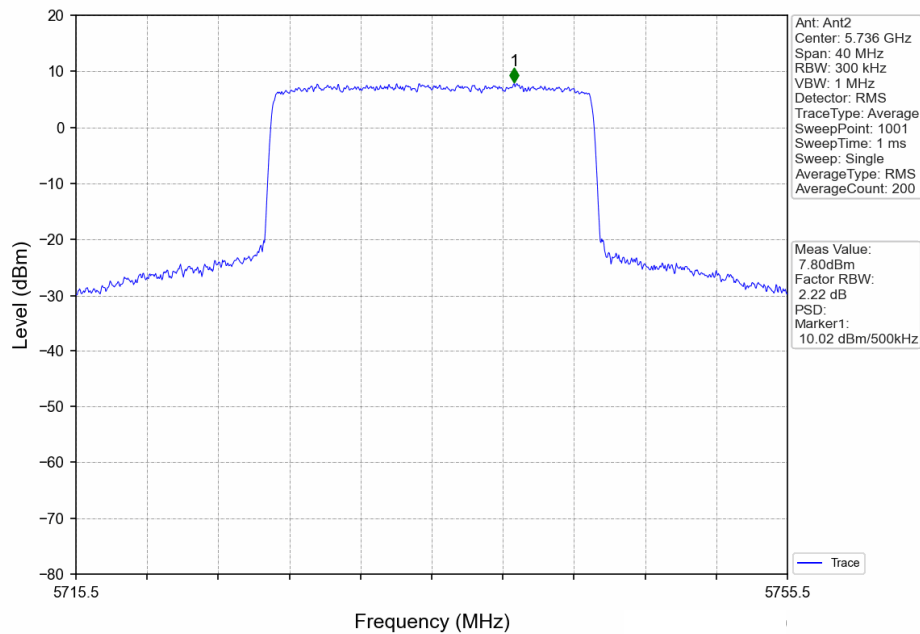
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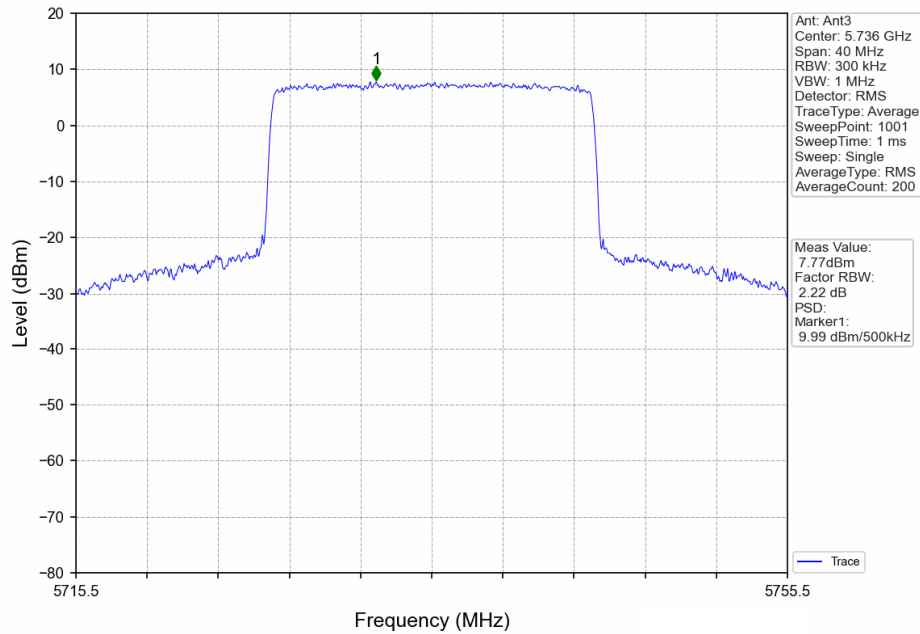
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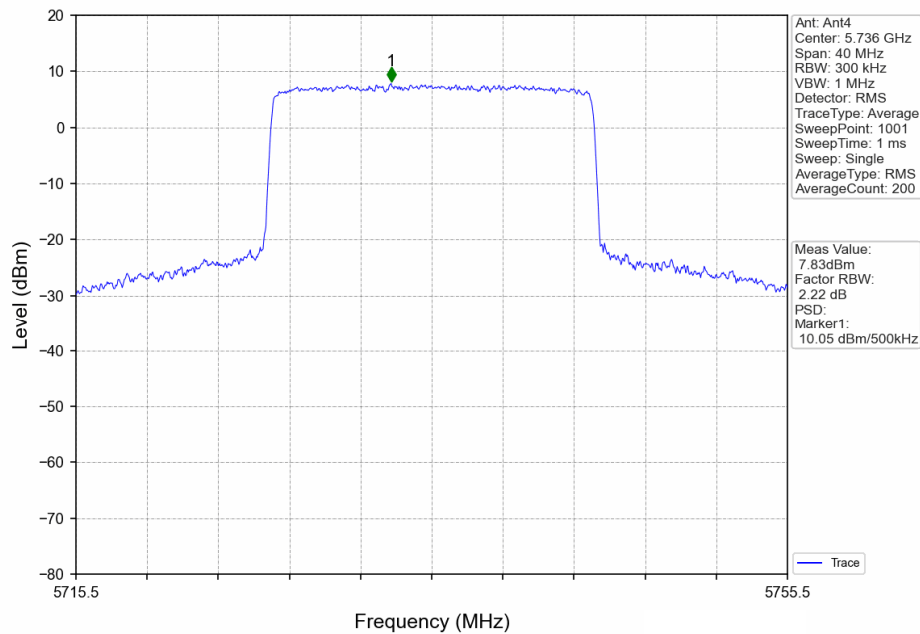
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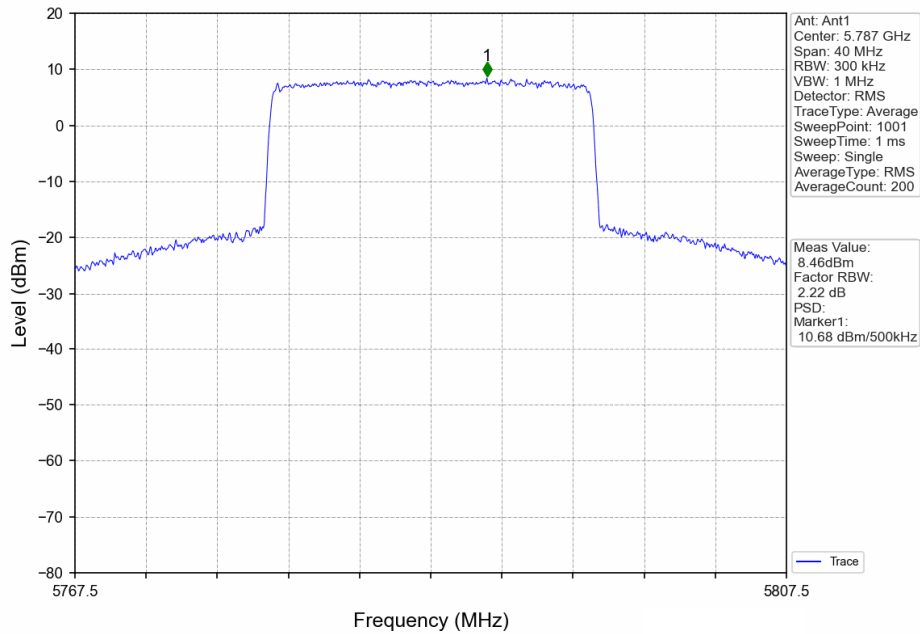
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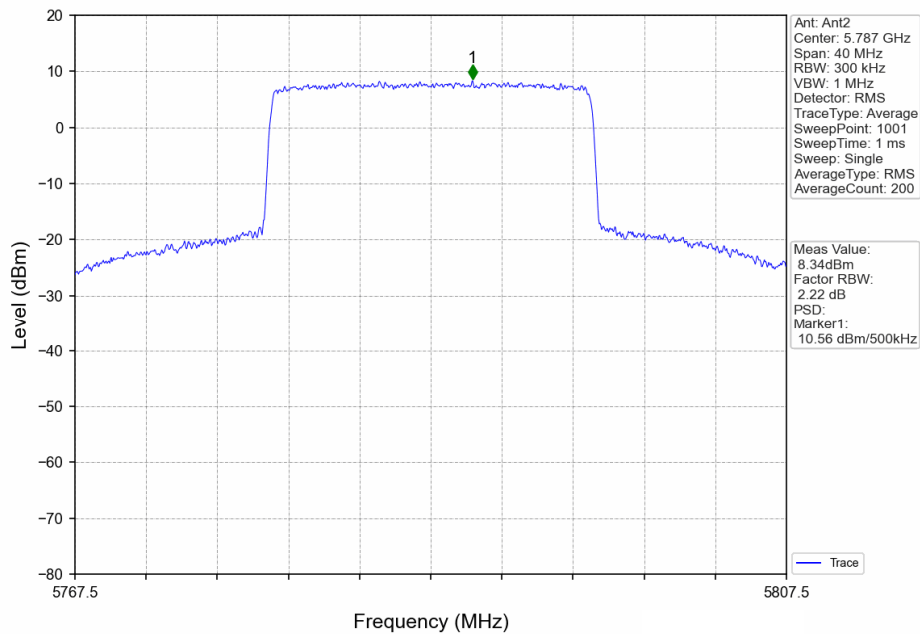
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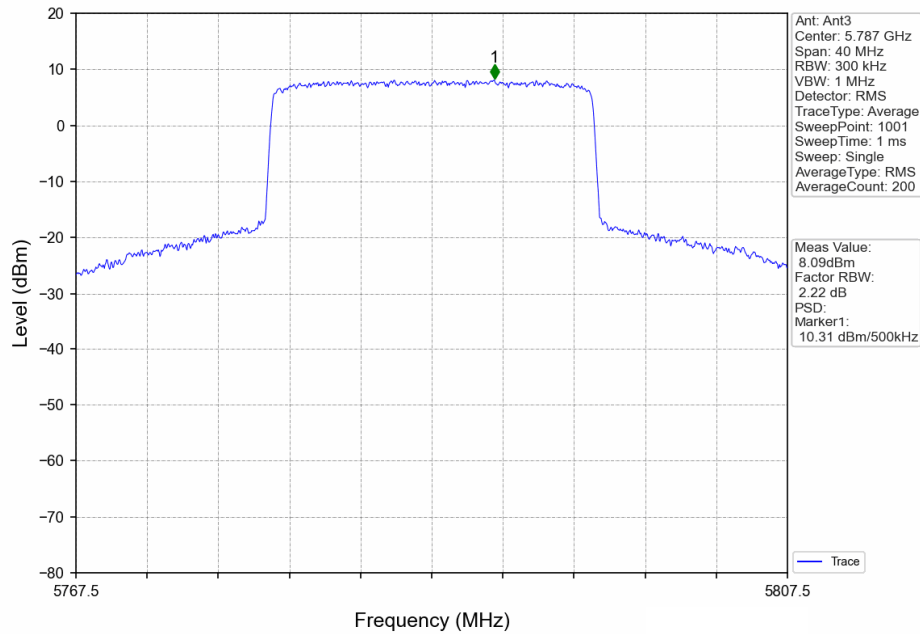
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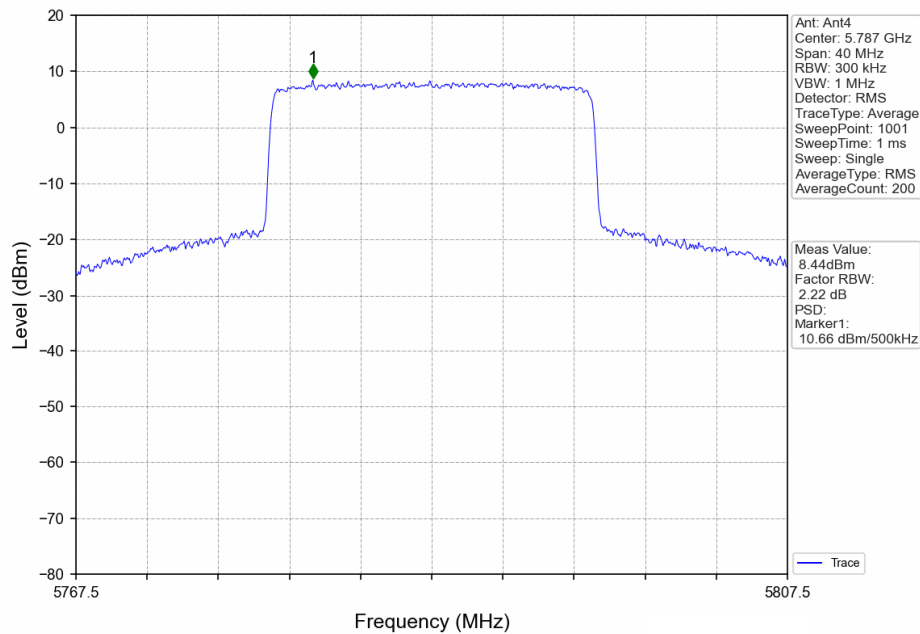
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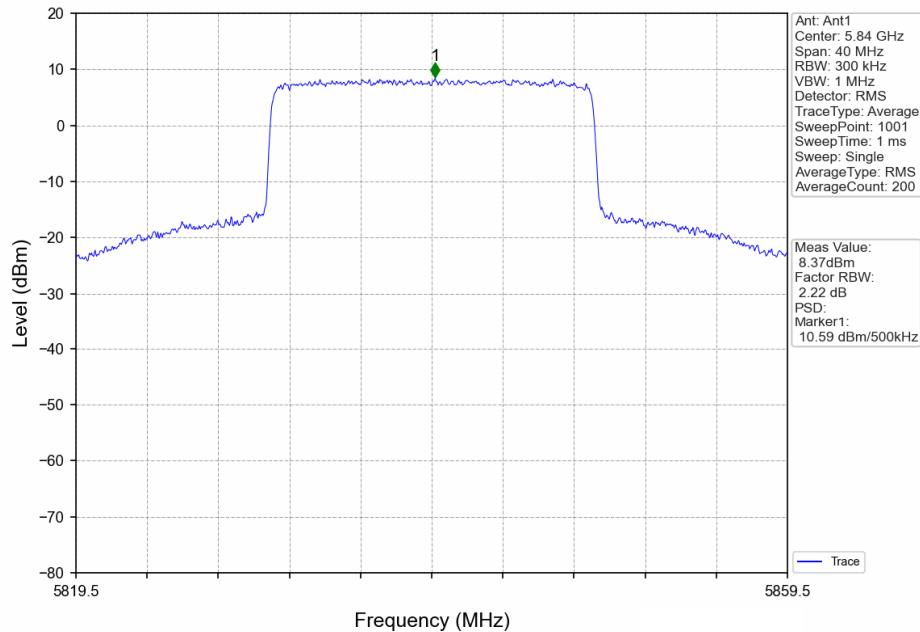
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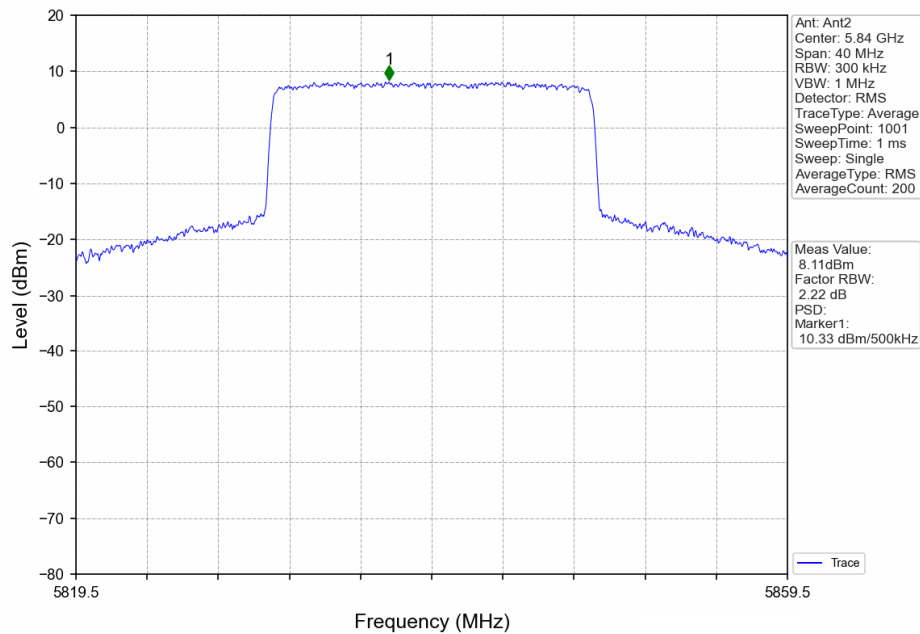
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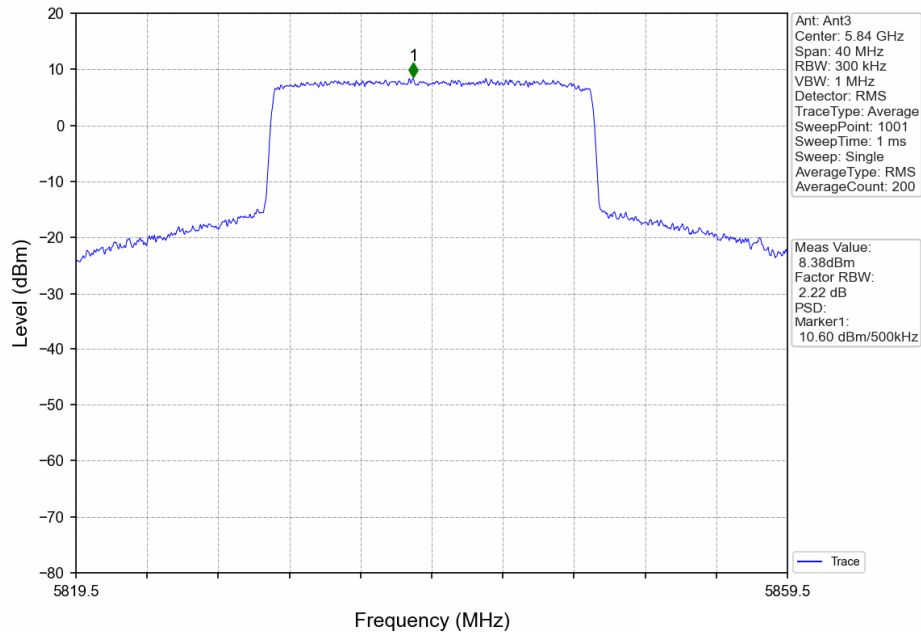
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20MHz BW_HCH_5839.5MHz_Ant2_NTNV



20MHz BW_HCH_5839.5MHz_Ant3_NTNV



20MHz BW_HCH_5839.5MHz_Ant4_NTNV

