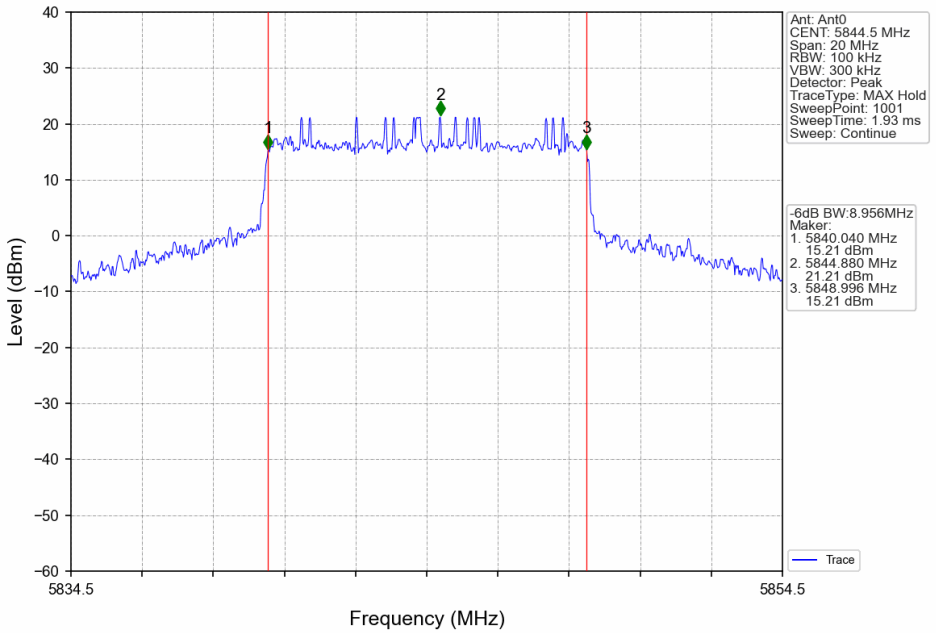
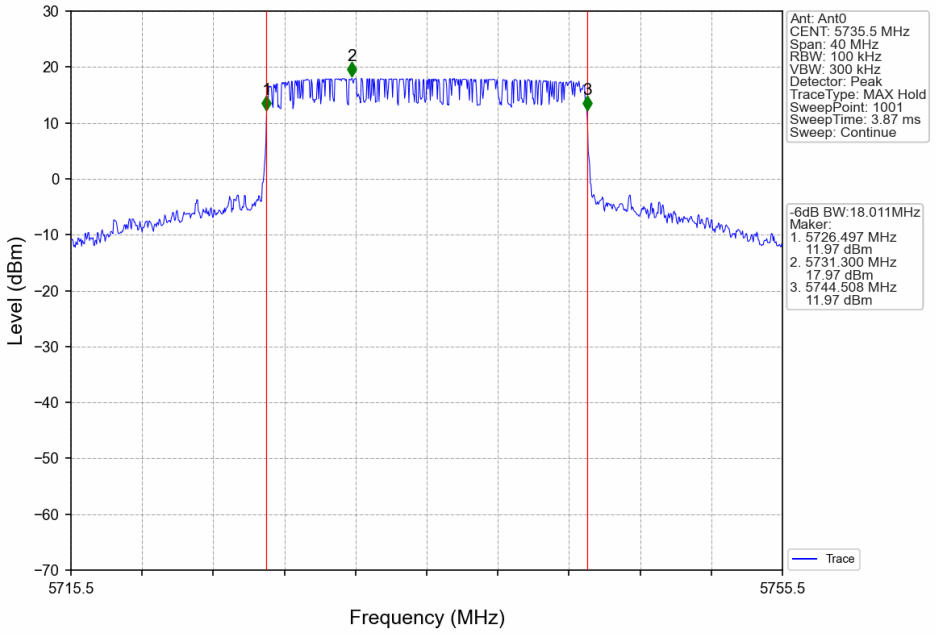
10M_HCH_5844.5MHz_Ant0_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



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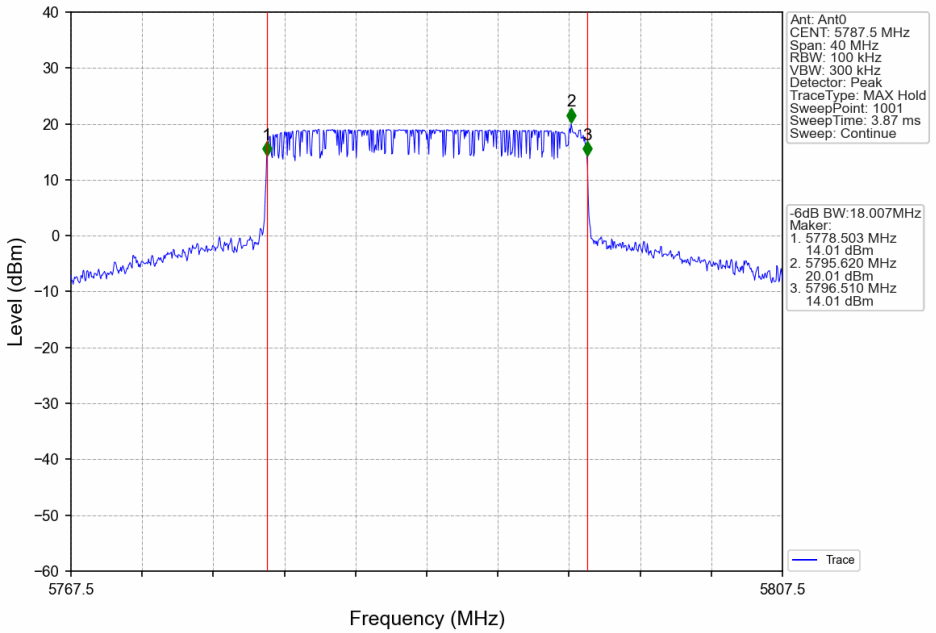
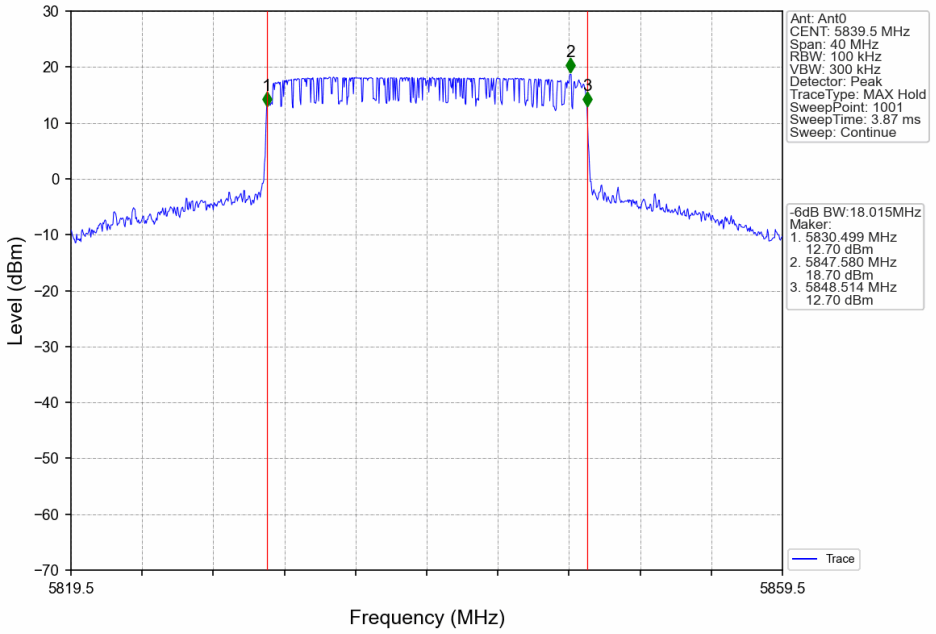
20M_MCH_5787.5MHz_Ant0_NTNV



20M_HCH_5839.5MHz_Ant0_NTNV



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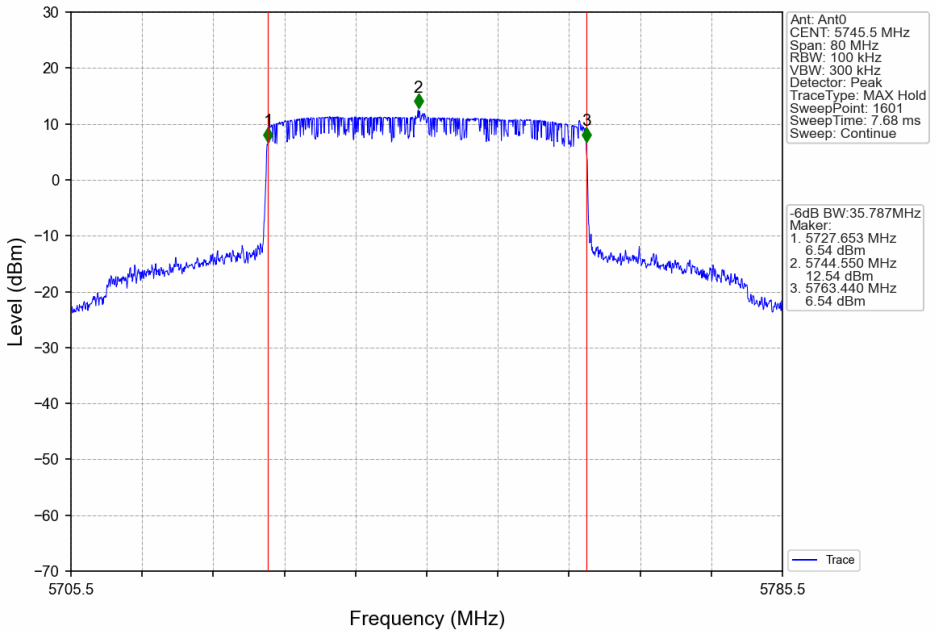
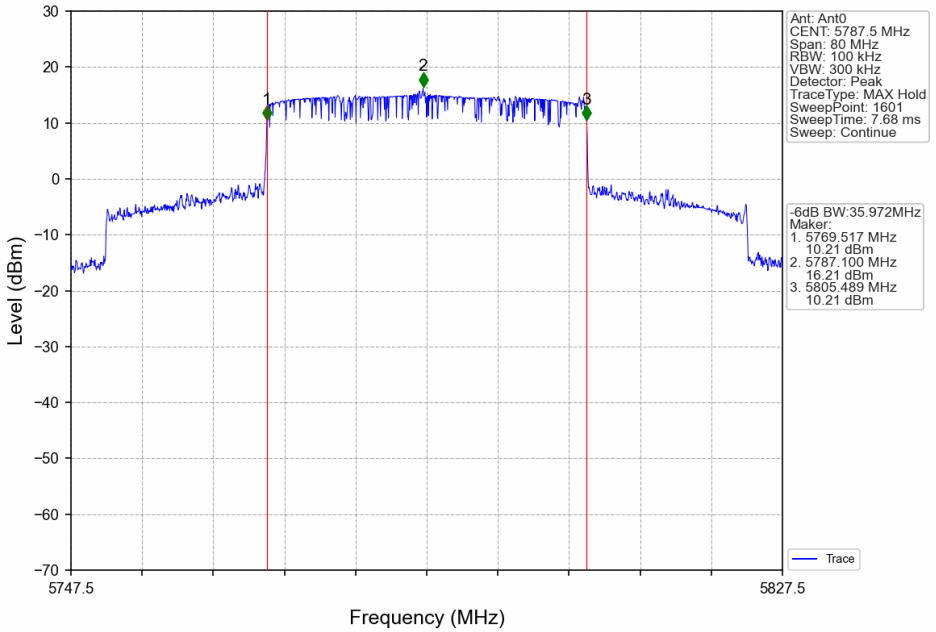
40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV



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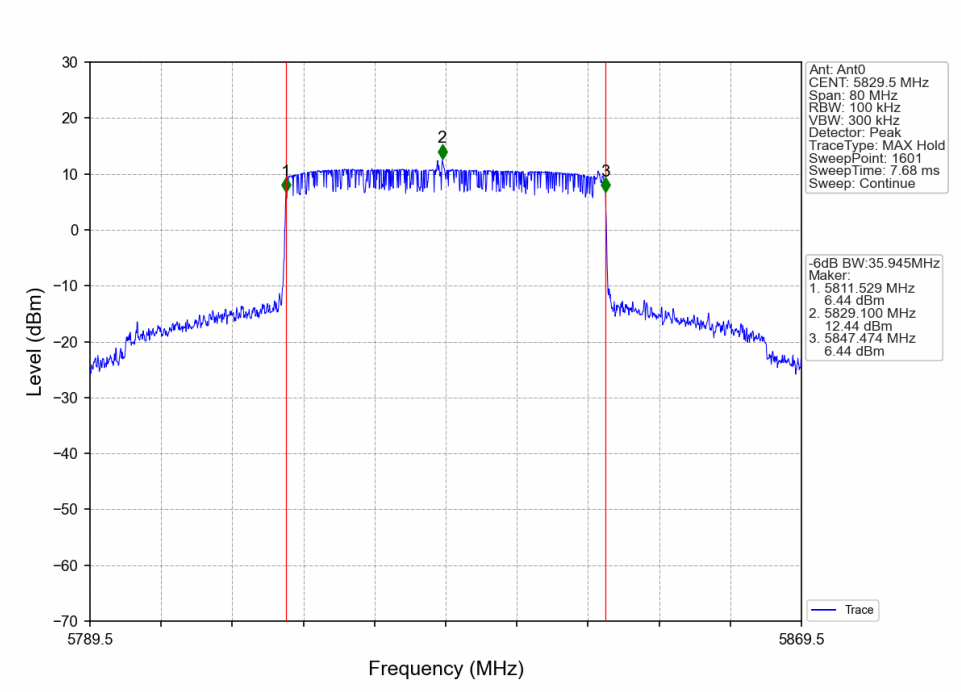
40M_HCH_5829.5MHz_Ant0_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)					Verdict
			ANT0	ANT1	ANT2	ANT3	Limit	
1.4M	SISO	5728.5	17.23	17.99	17.67	17.02	<=30	Pass
		5786.5	17.61	18.48	17.76	17.17	<=30	Pass
		5848.12	17.13	18.45	17.12	17.18	<=30	Pass
3M	SISO	5727.5	18.90	19.18	18.33	17.46	<=30	Pass
		5784.5	18.71	19.57	18.85	18.29	<=30	Pass
		5847.2	17.96	18.71	18.38	17.92	<=30	Pass
10M	SISO	5730.5	27.01	27.60	26.83	26.56	<=30	Pass
		5787.5	27.82	28.19	27.60	27.49	<=30	Pass
		5844.5	27.18	27.58	26.96	26.64	<=30	Pass
20M	SISO	5735.5	27.04	27.54	26.62	26.33	<=30	Pass
		5787.5	27.96	28.15	27.54	27.42	<=30	Pass
		5839.5	27.20	27.59	26.89	26.82	<=30	Pass
40M	SISO	5745.5	26.97	27.27	26.41	26.60	<=30	Pass
		5787.5	26.94	27.23	26.67	26.56	<=30	Pass
		5829.5	27.18	27.33	26.66	26.76	<=30	Pass
Note1: Antenna Gain: Ant0: 3.00dBi; Ant1: 2.50dBi; Ant2: 2.50dBi; Ant3: 3.00dBi;								

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4. Maximum Power Spectral Density

4.1 PSD-Band3

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)					Verdict
			ANT0	ANT1	ANT2	ANT3	Limit	
1.4M	SISO	5728.5	16.64	17.26	17.02	16.83	<=30	Pass
		5786.5	16.78	17.79	16.84	16.33	<=30	Pass
		5848.12	16.51	17.54	16.27	16.25	<=30	Pass
3M	SISO	5727.5	14.14	14.68	13.61	13.08	<=30	Pass
		5784.5	14.05	14.66	14.11	13.74	<=30	Pass
		5847.2	13.41	13.96	13.53	13.15	<=30	Pass
10M	SISO	5730.5	15.35	16.09	15.26	14.91	<=30	Pass
		5787.5	16.11	16.63	15.91	15.62	<=30	Pass
		5844.5	15.50	15.92	15.35	15.09	<=30	Pass
20M	SISO	5735.5	12.77	13.03	12.28	12.07	<=30	Pass
		5787.5	13.49	13.73	13.16	13.09	<=30	Pass
		5839.5	12.92	13.06	12.58	12.27	<=30	Pass
40M	SISO	5745.5	10.03	10.05	9.15	9.56	<=30	Pass
		5787.5	9.47	9.81	9.29	9.06	<=30	Pass
		5829.5	10.30	10.22	9.48	10.00	<=30	Pass
Note1: Antenna Gain: Ant0: 3.00dBi; Ant1: 2.50dBi; Ant2: 2.50dBi; Ant3: 3.00dBi;								

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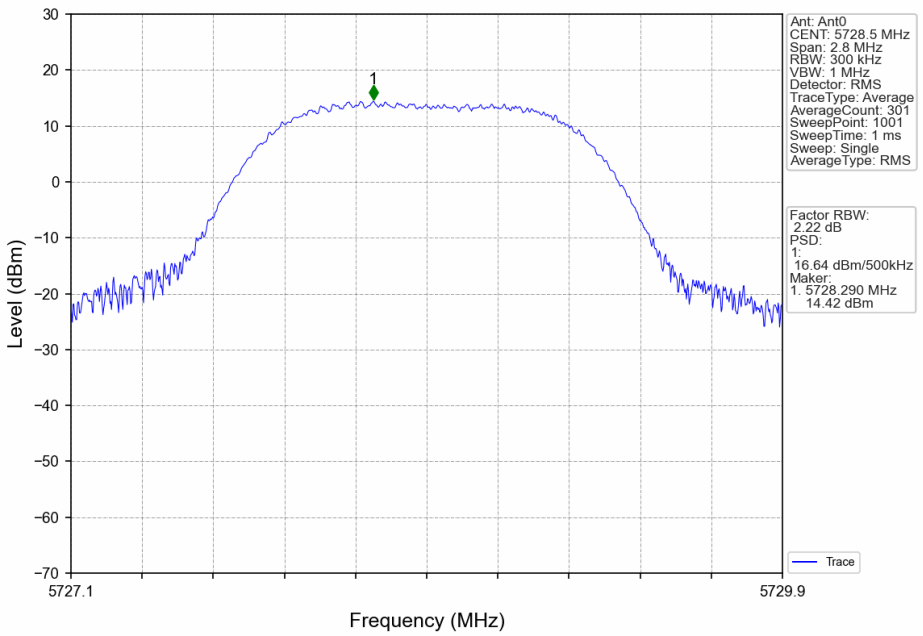
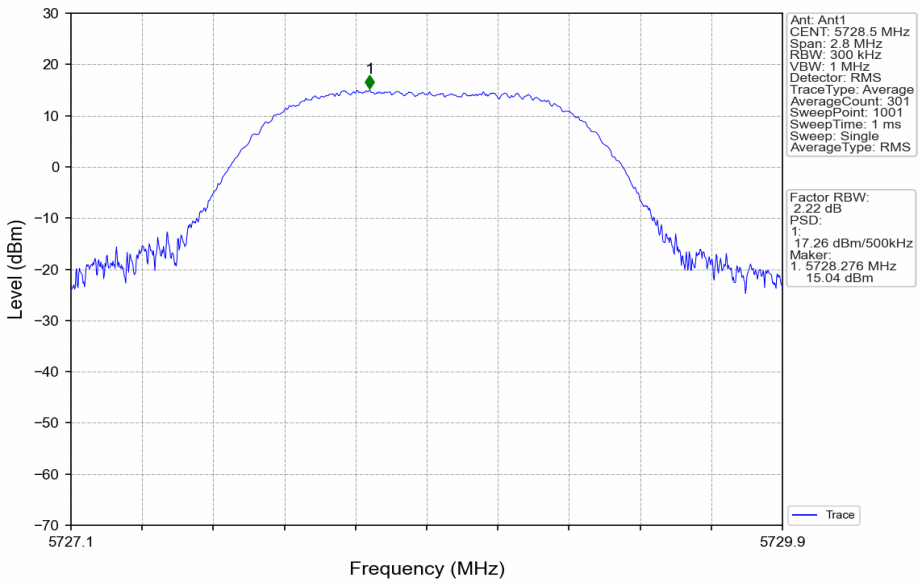
4.1.2 Test Graph

1.4M_LCH_5728.5MHz_Ant0_NTNV



1.4M_LCH_5728.5MHz_Ant1_NTNV



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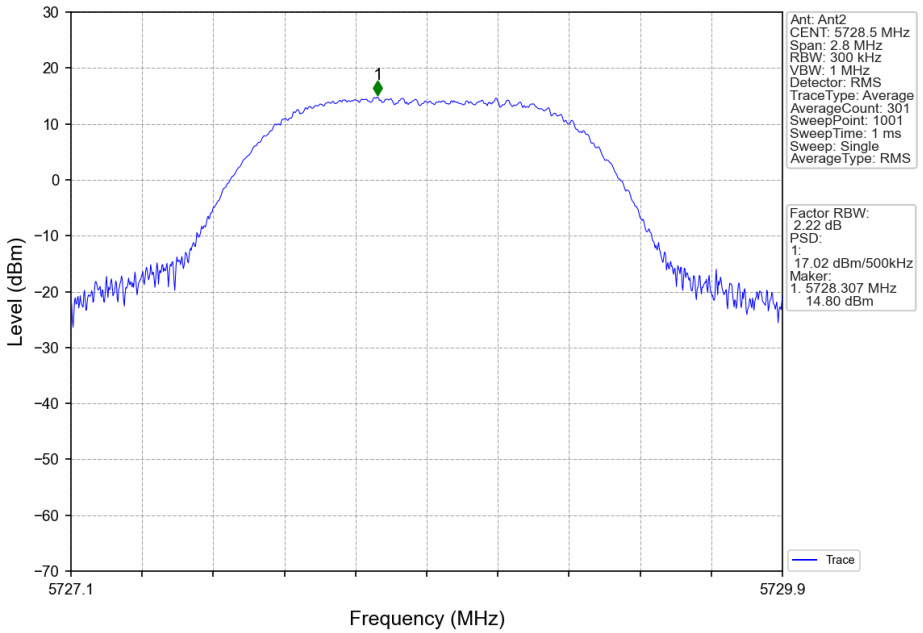
1.4M_LCH_5728.5MHz_Ant2_NTNV



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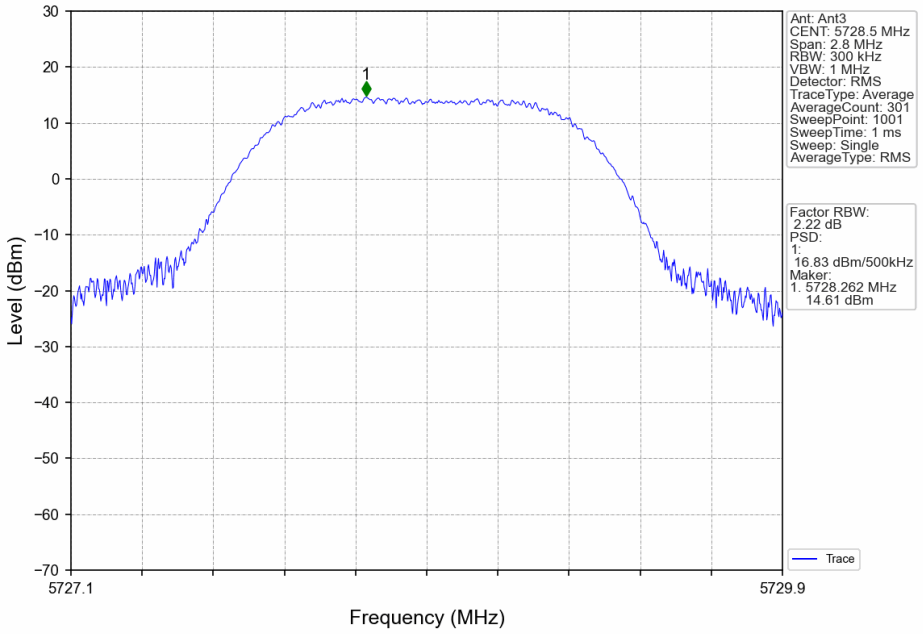

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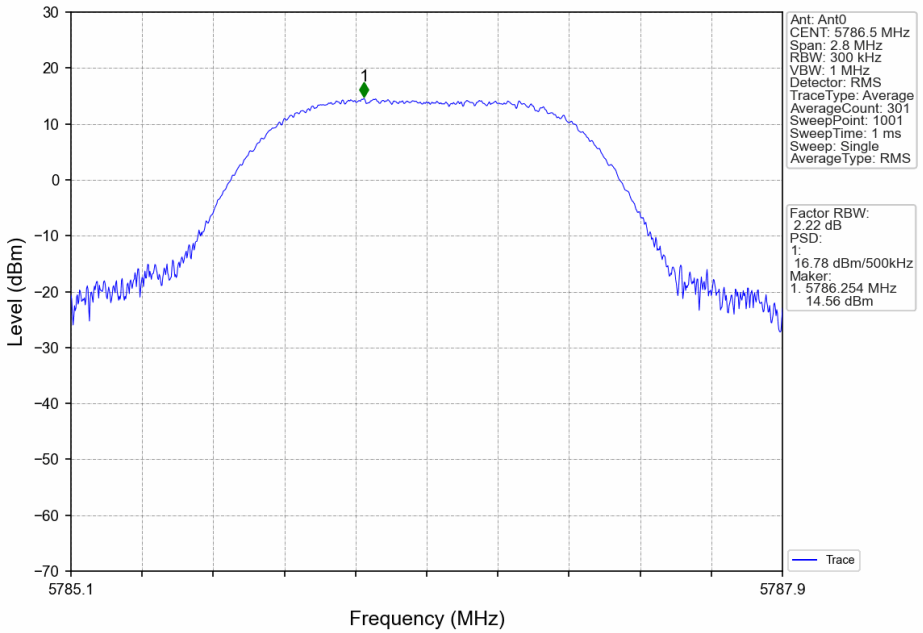
1.4M_MCH_5786.5MHz_Ant0_NTNV



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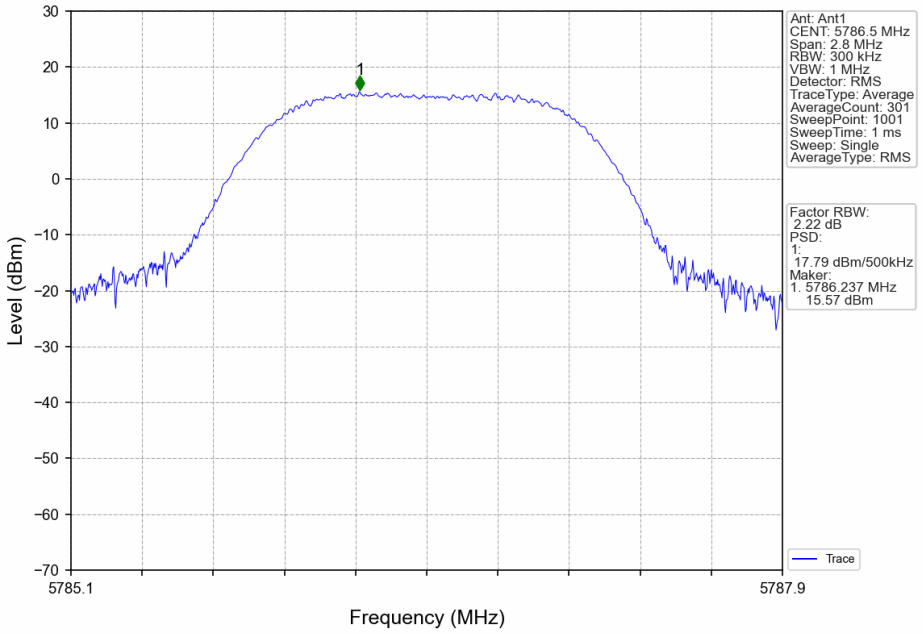

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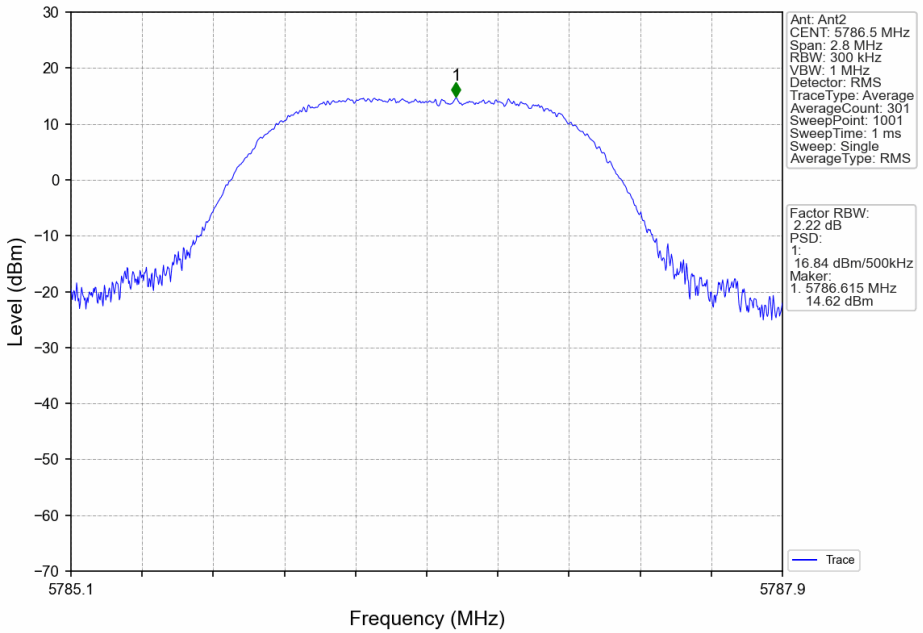
1.4M_MCH_5786.5MHz_Ant2_NTNV



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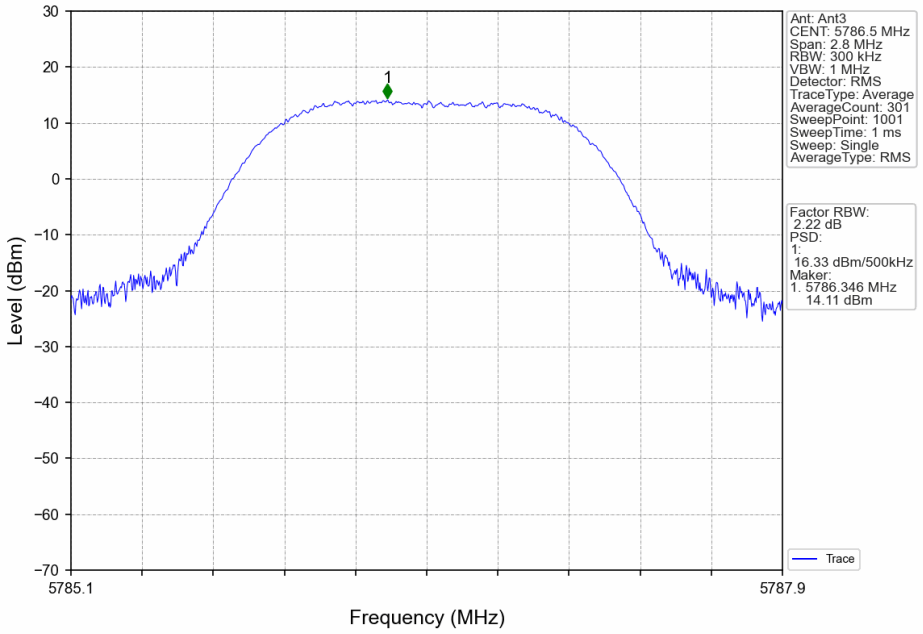

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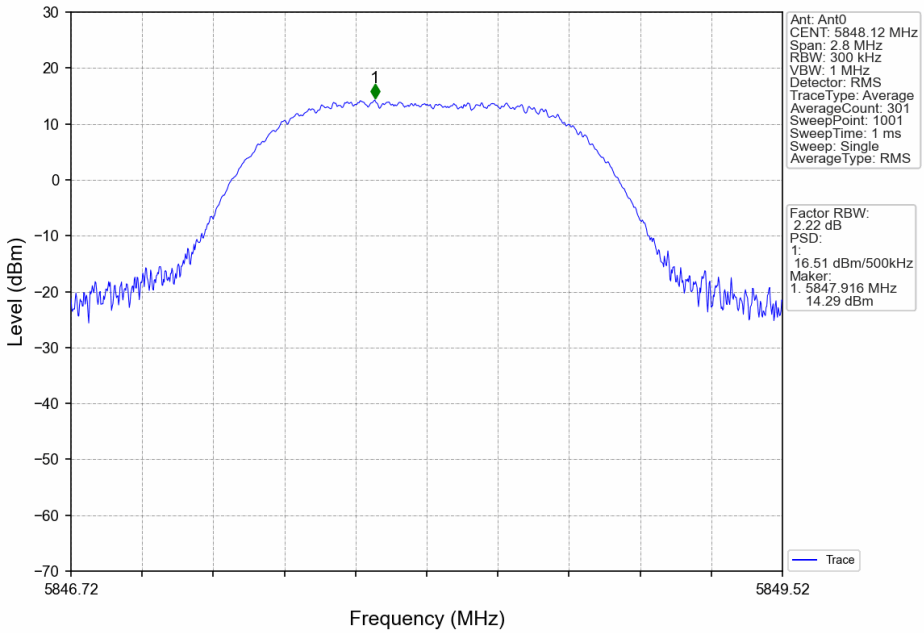
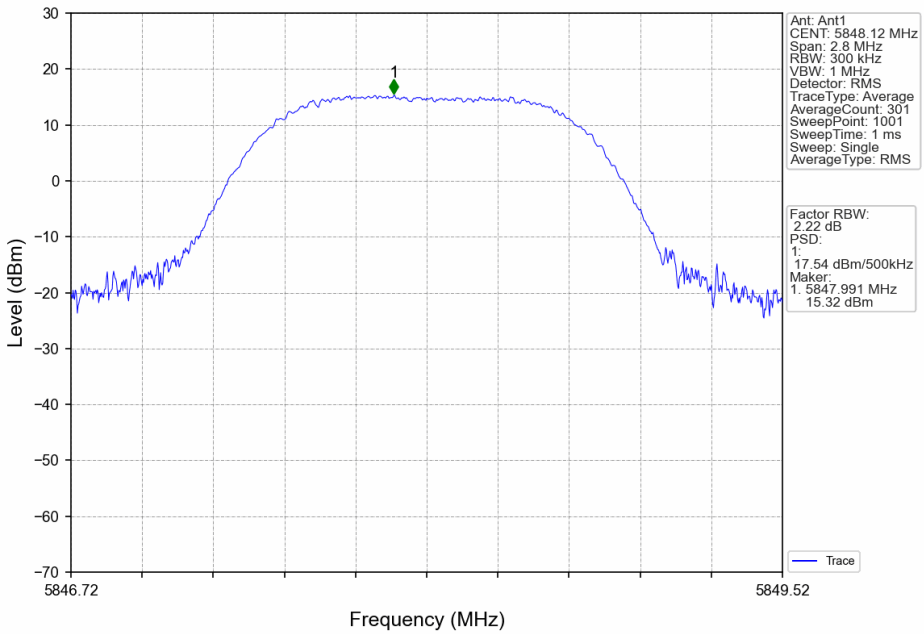
1.4M_HCH_5848.12MHz_Ant0_NTNV



1.4M_HCH_5848.12MHz_Ant1_NTNV



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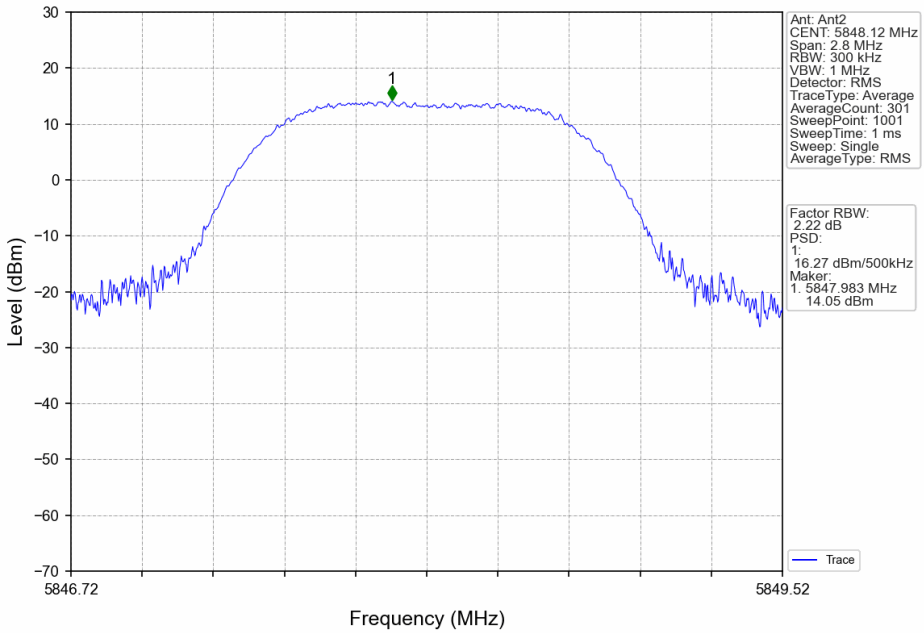
1.4M_HCH_5848.12MHz_Ant2_NTNV



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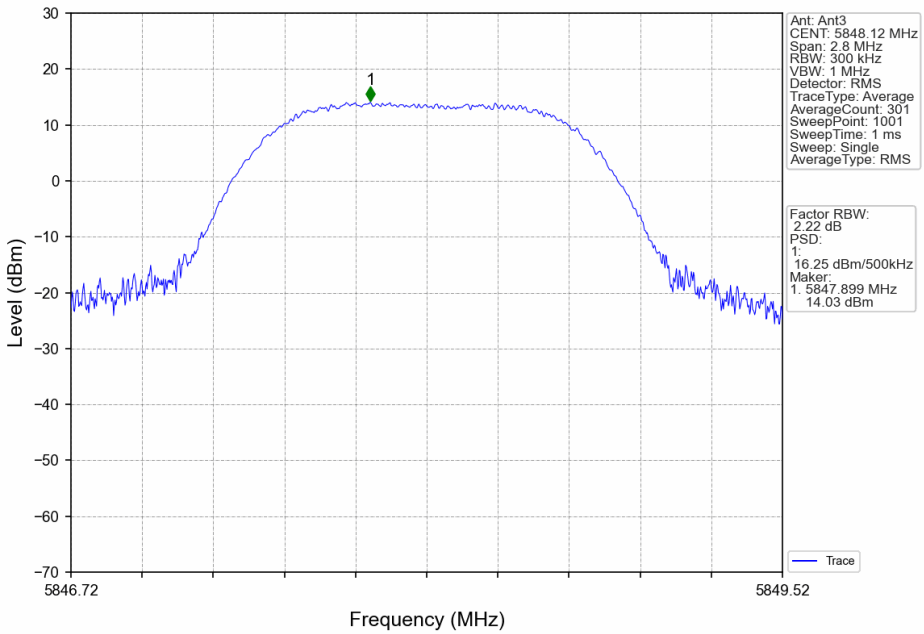

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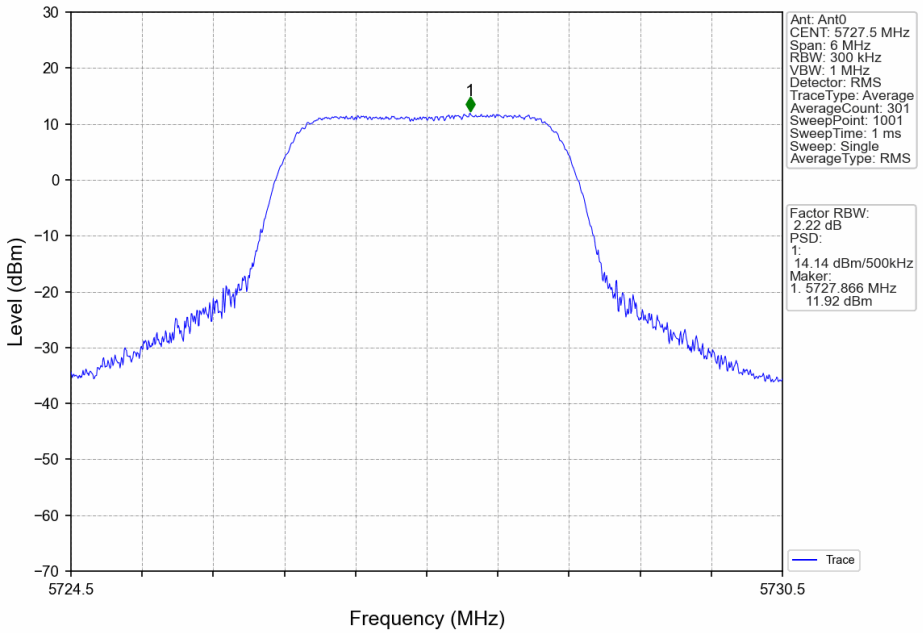
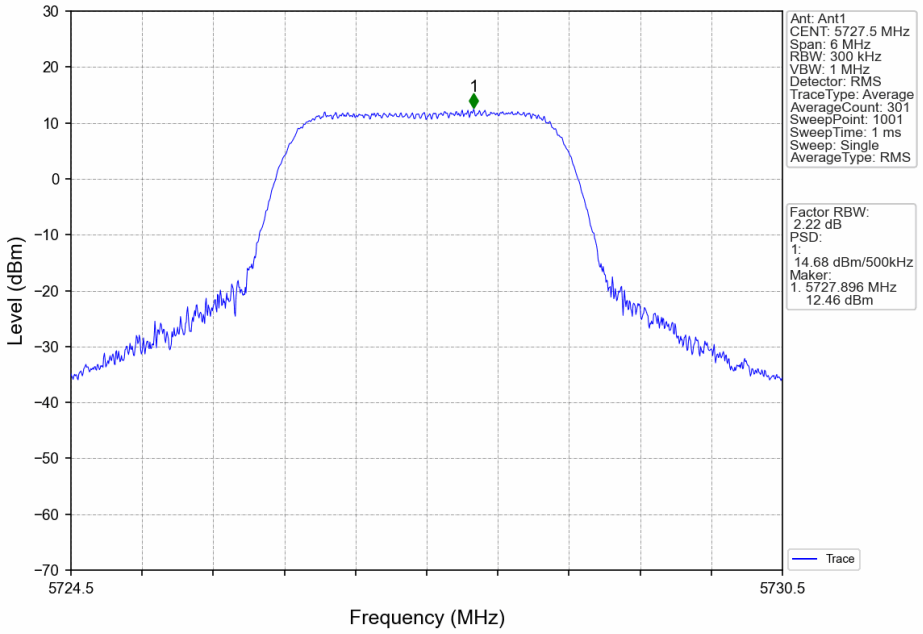
3M_LCH_5727.5MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant1_NTNV



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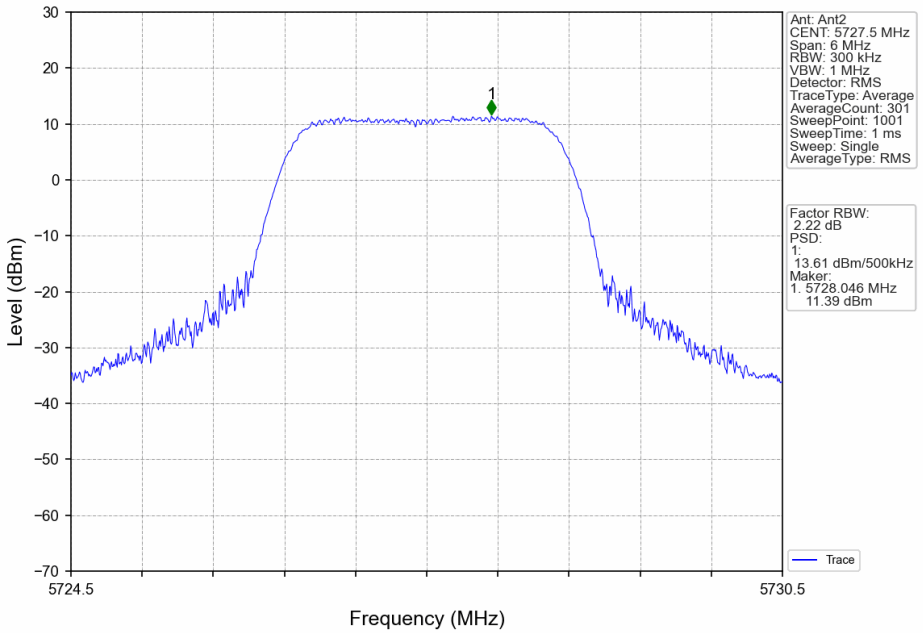
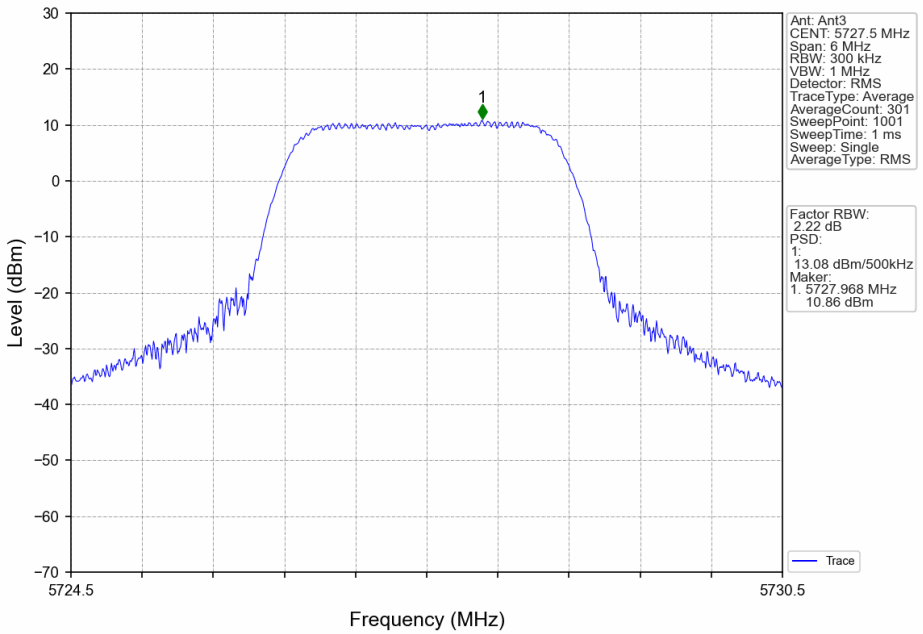
3M_LCH_5727.5MHz_Ant2_NTNV



3M_LCH_5727.5MHz_Ant3_NTNV



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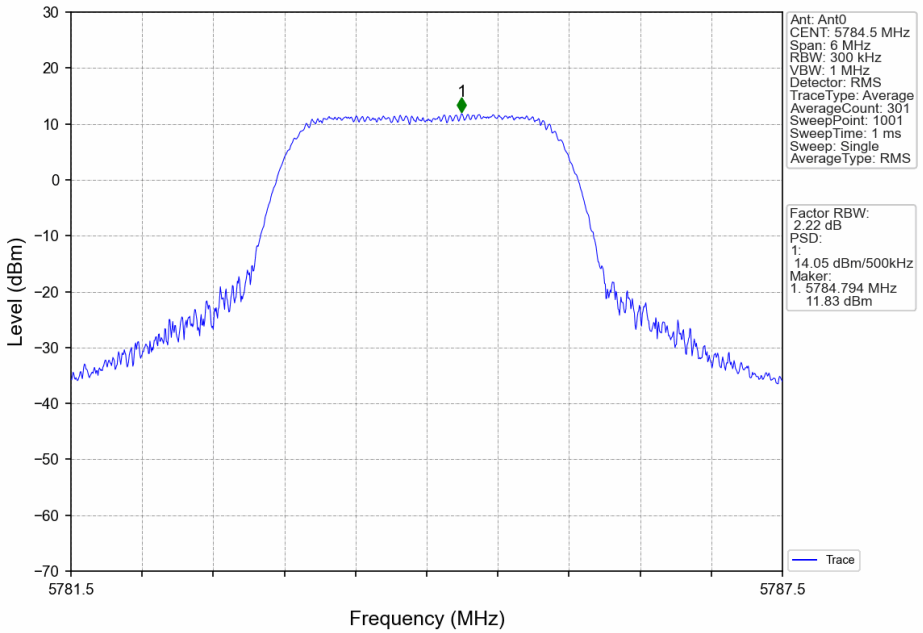
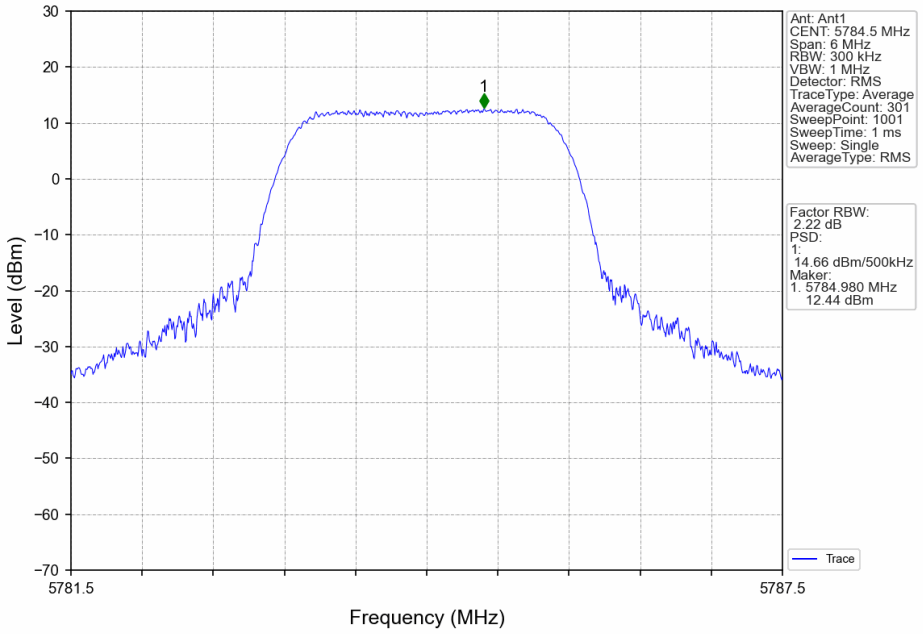
3M_MCH_5784.5MHz_Ant0_NTNV



3M_MCH_5784.5MHz_Ant1_NTNV



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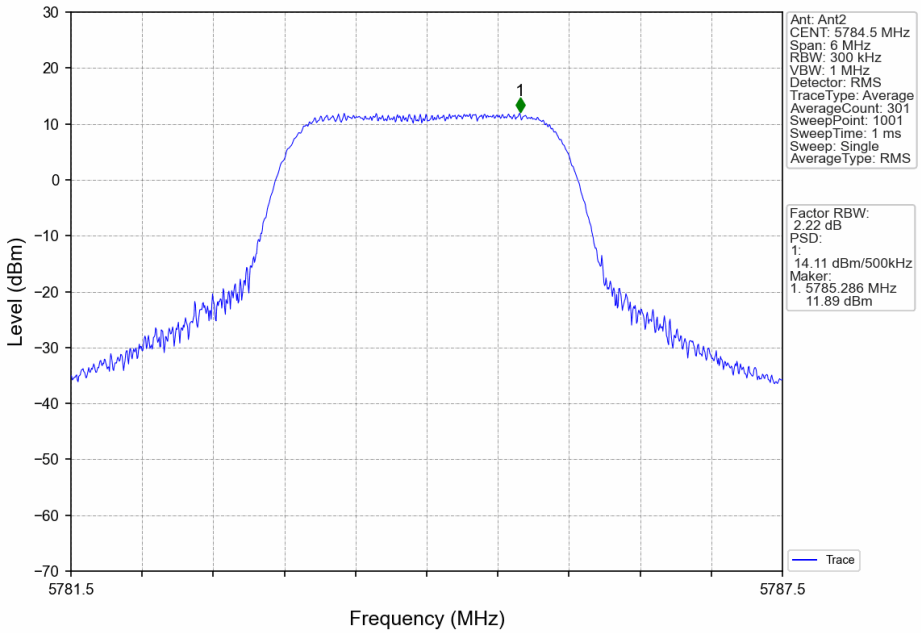
3M_MCH_5784.5MHz_Ant2_NTNV



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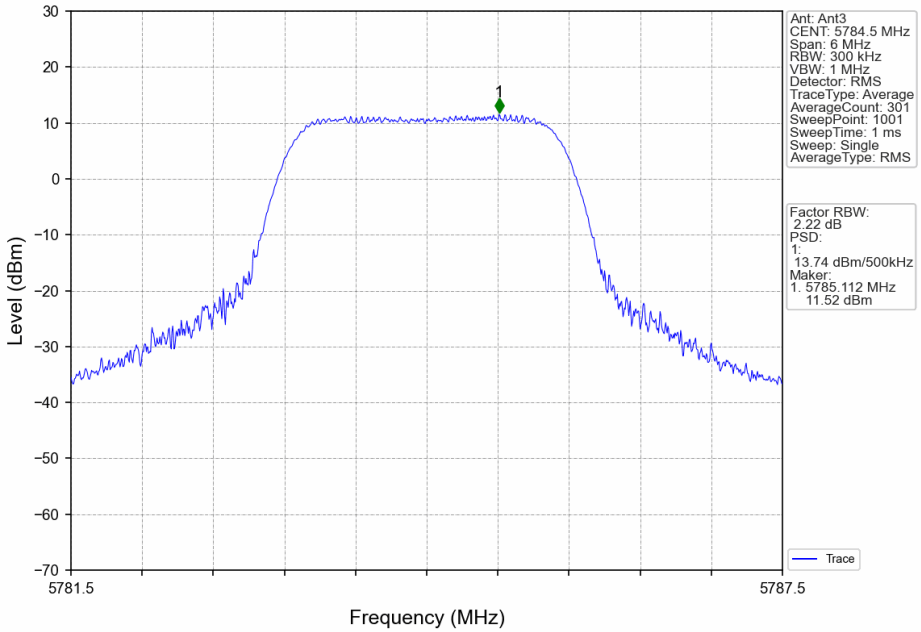

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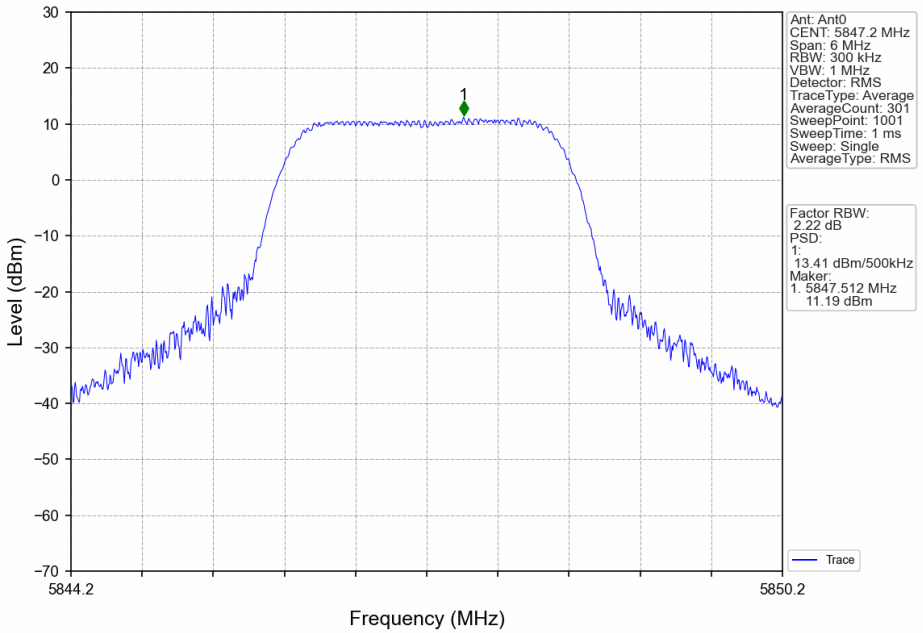
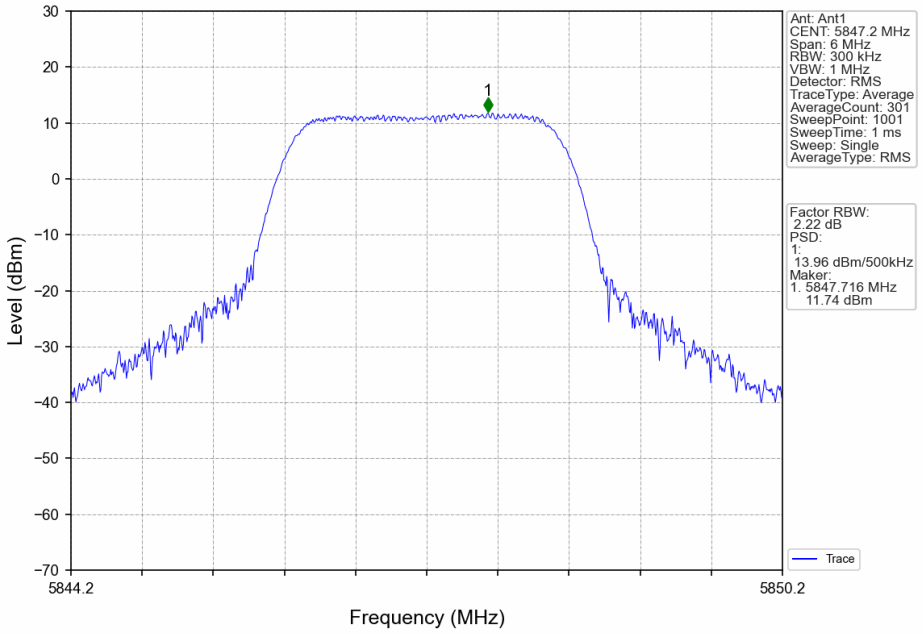
3M_HCH_5847.2MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant1_NTNV



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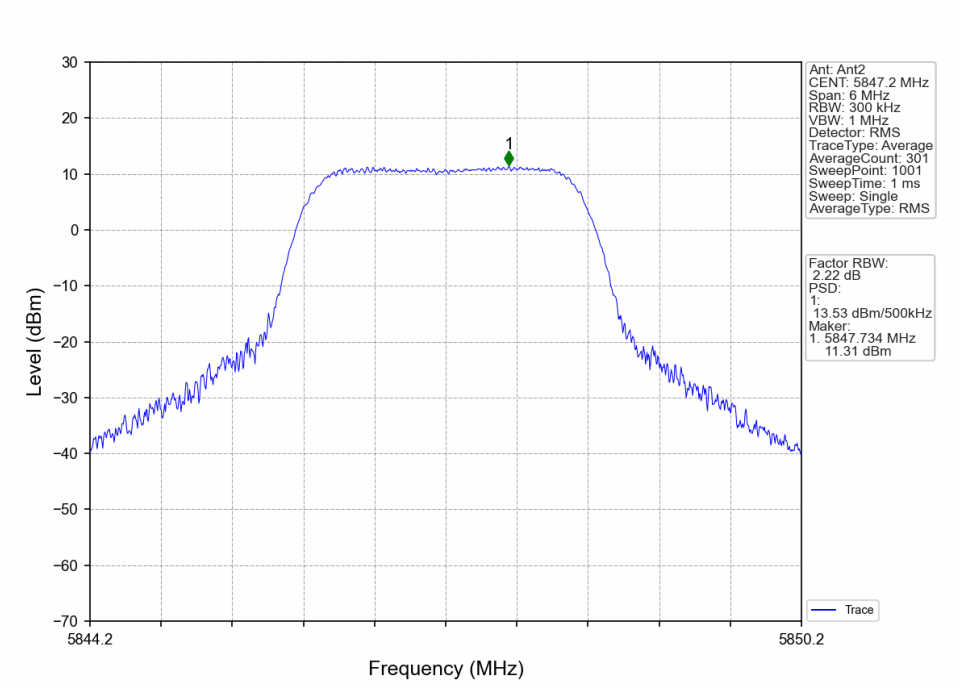
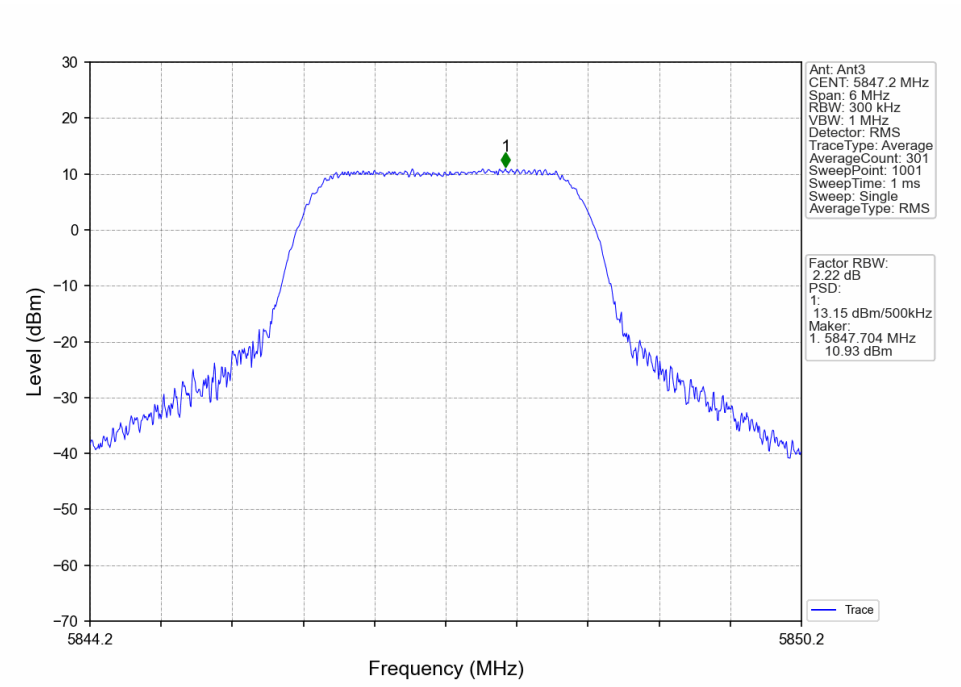
3M_HCH_5847.2MHz_Ant2_NTNV



3M_HCH_5847.2MHz_Ant3_NTNV



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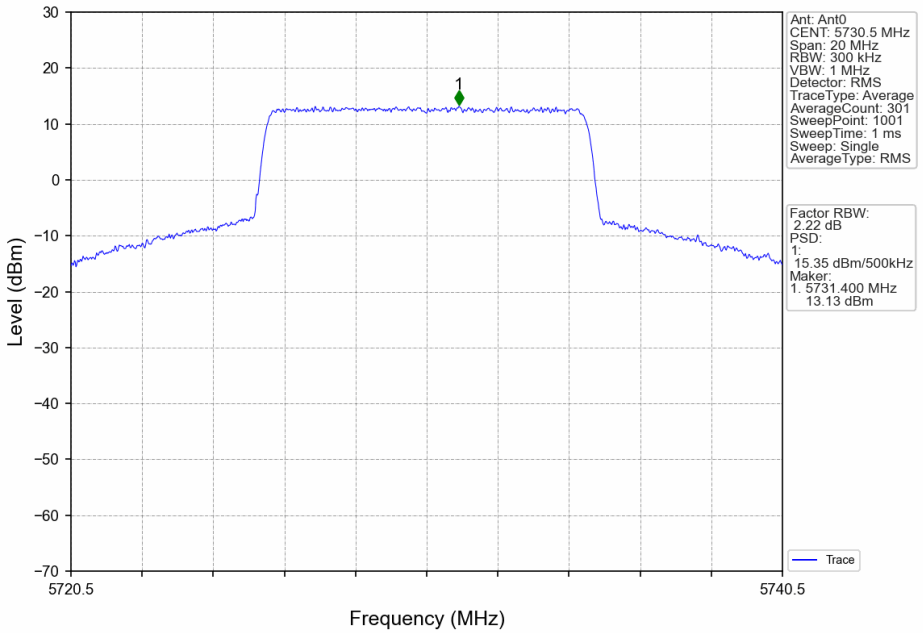
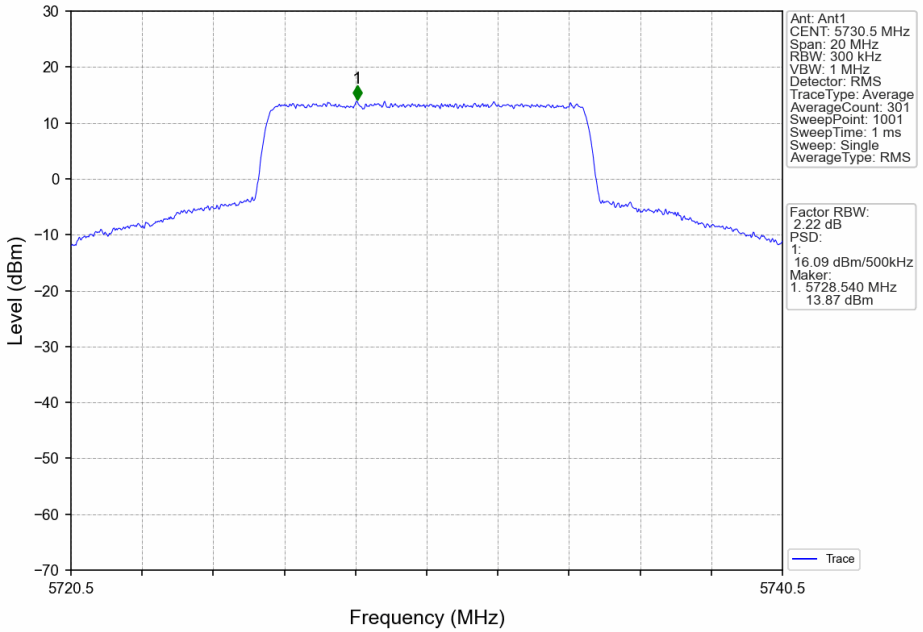
10M_LCH_5730.5MHz_Ant0_NTNV



10M_LCH_5730.5MHz_Ant1_NTNV



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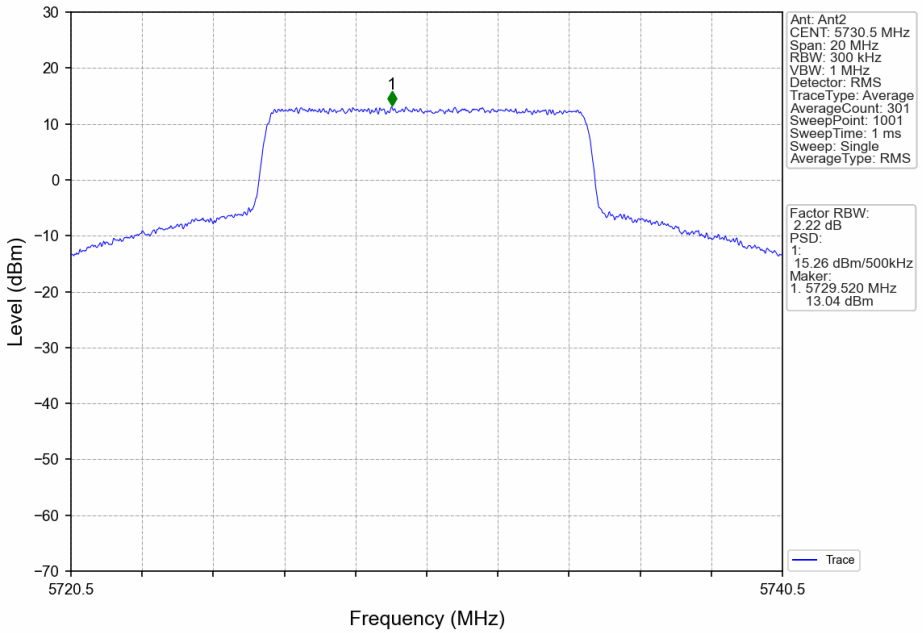
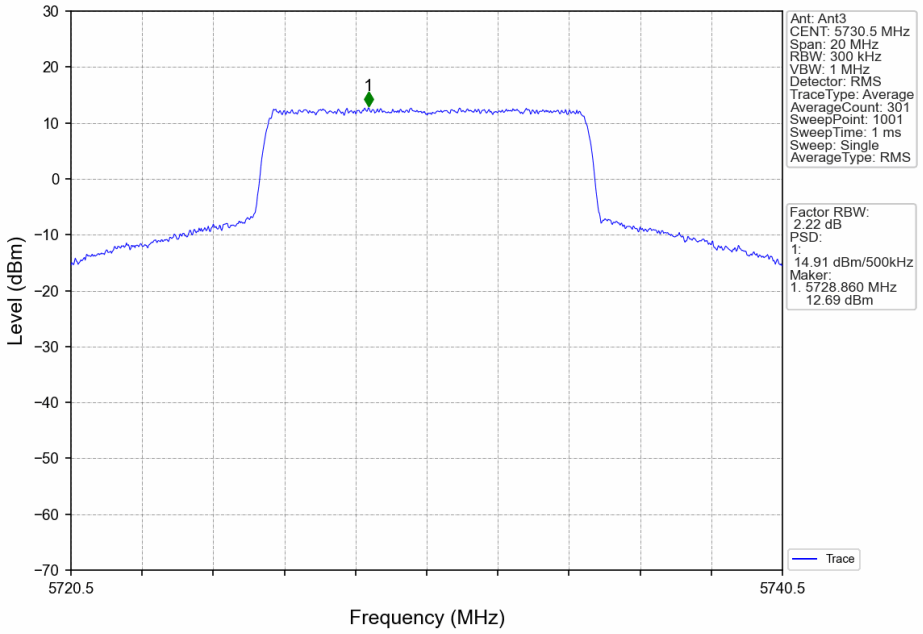
10M_LCH_5730.5MHz_Ant2_NTNV



10M_LCH_5730.5MHz_Ant3_NTNV



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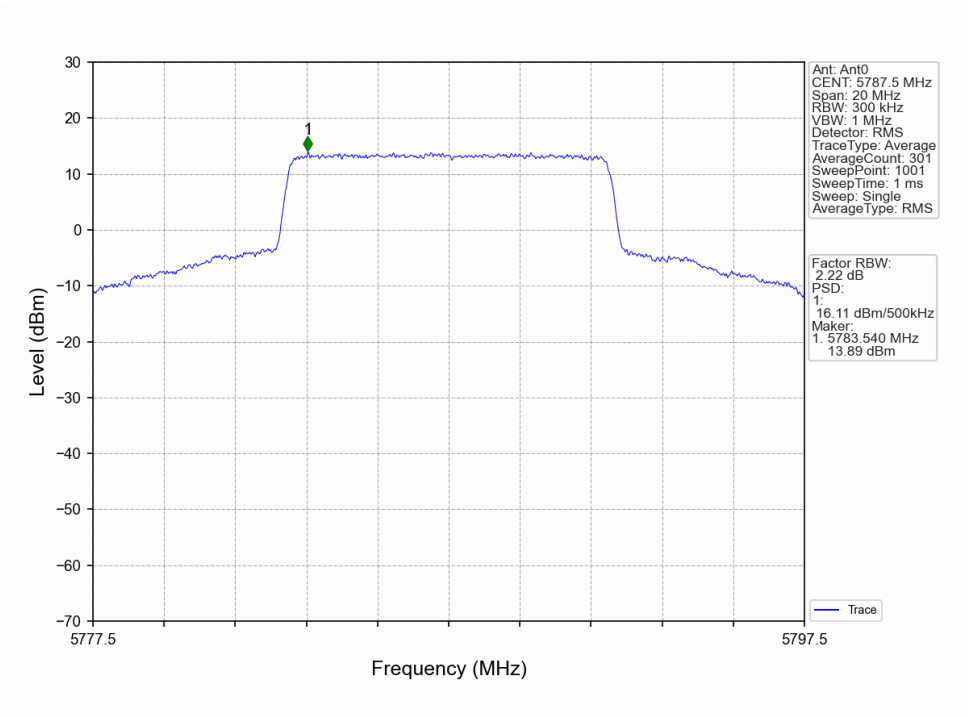
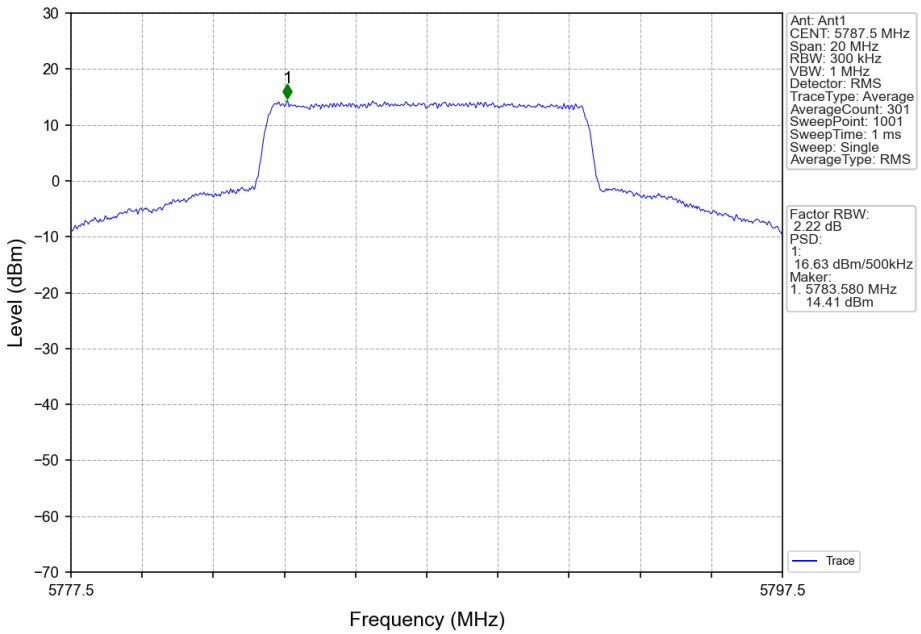
10M_MCH_5787.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant1_NTNV



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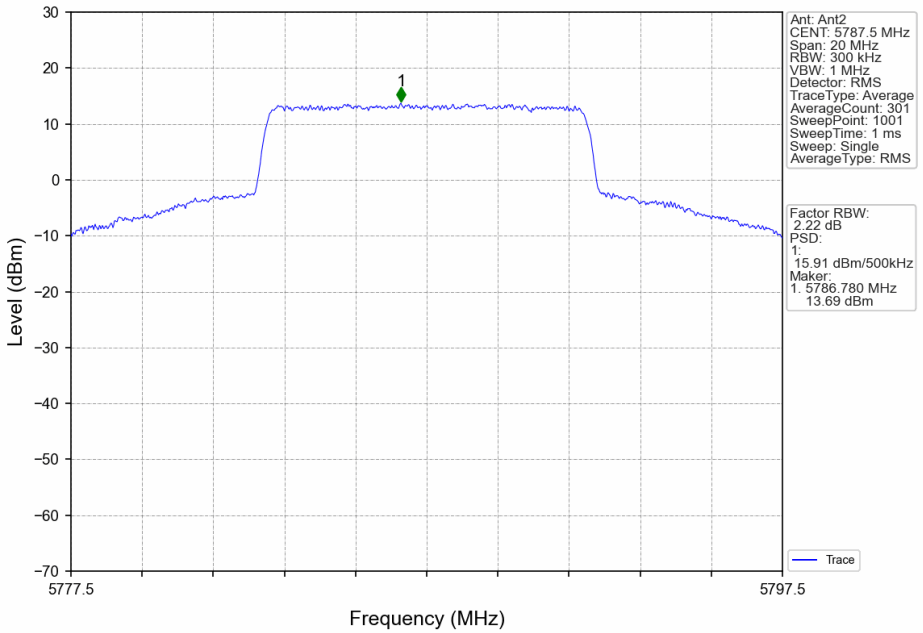
10M_MCH_5787.5MHz_Ant2_NTNV



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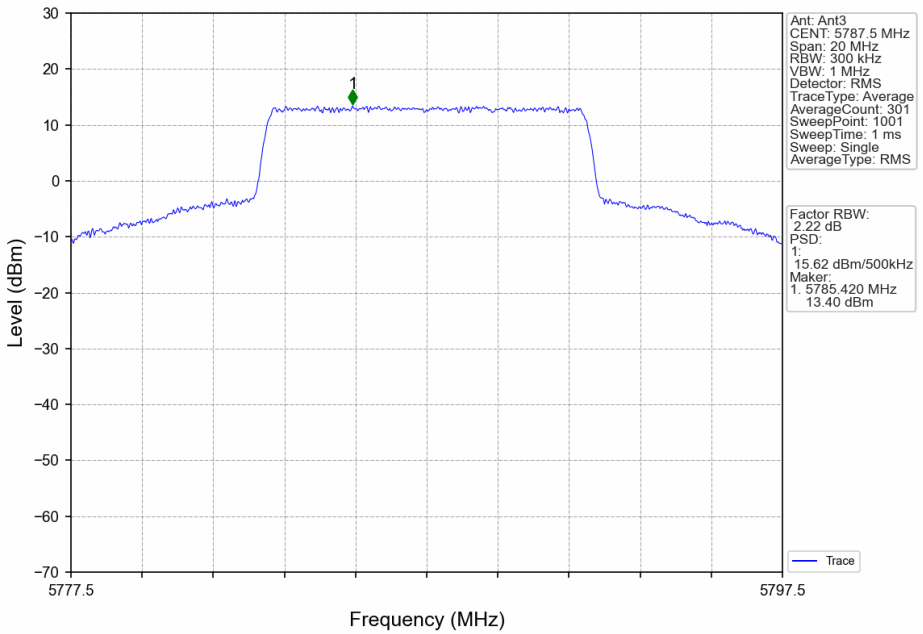

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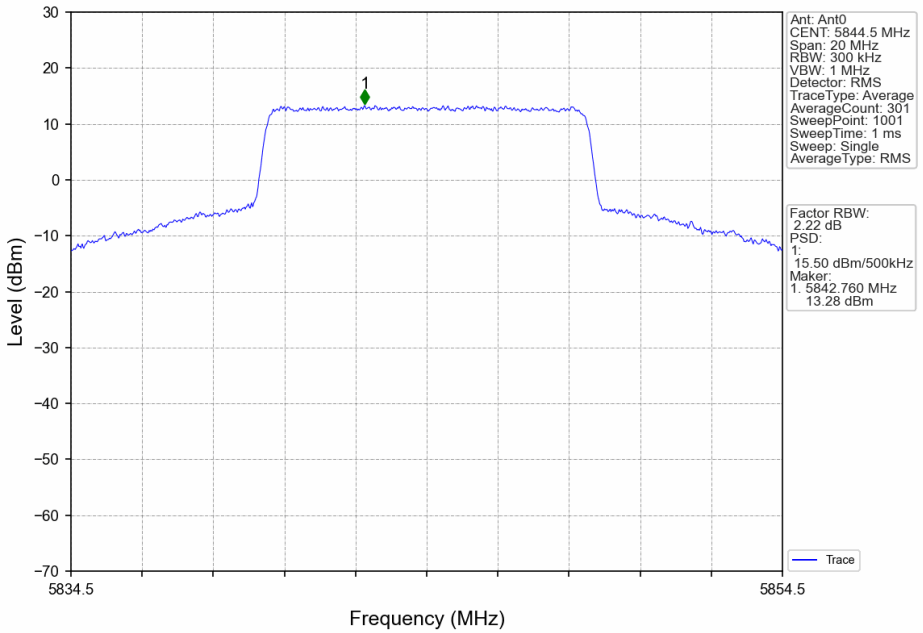
10M_HCH_5844.5MHz_Ant0_NTNV



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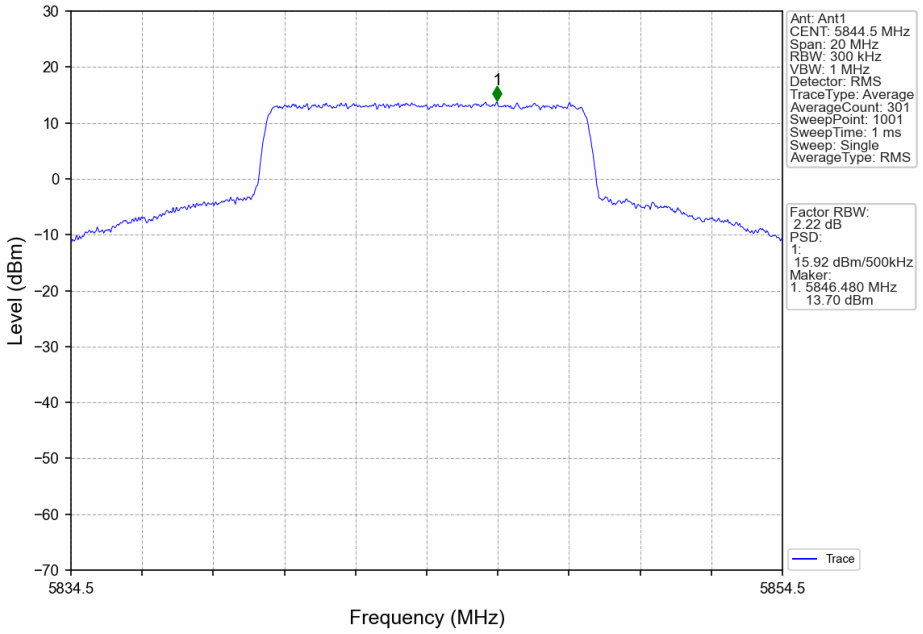

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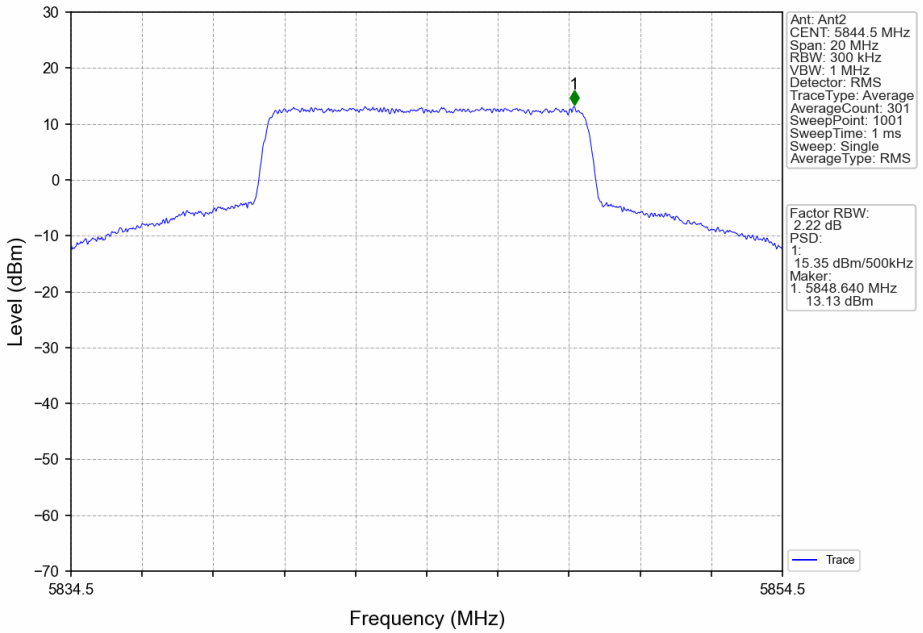
10M_HCH_5844.5MHz_Ant2_NTNV



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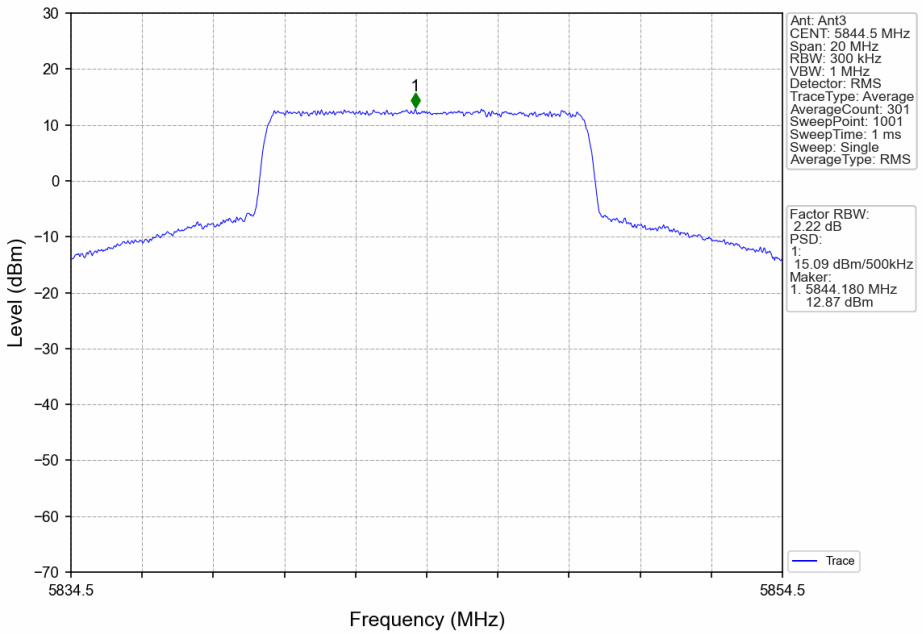

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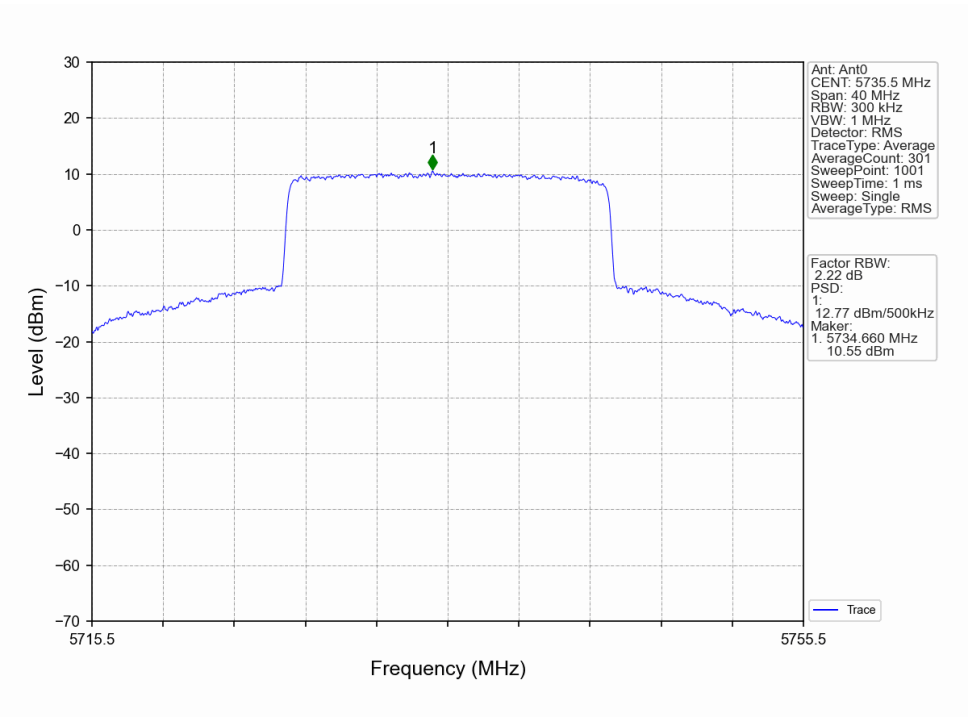
20M_LCH_5735.5MHz_Ant0_NTNV



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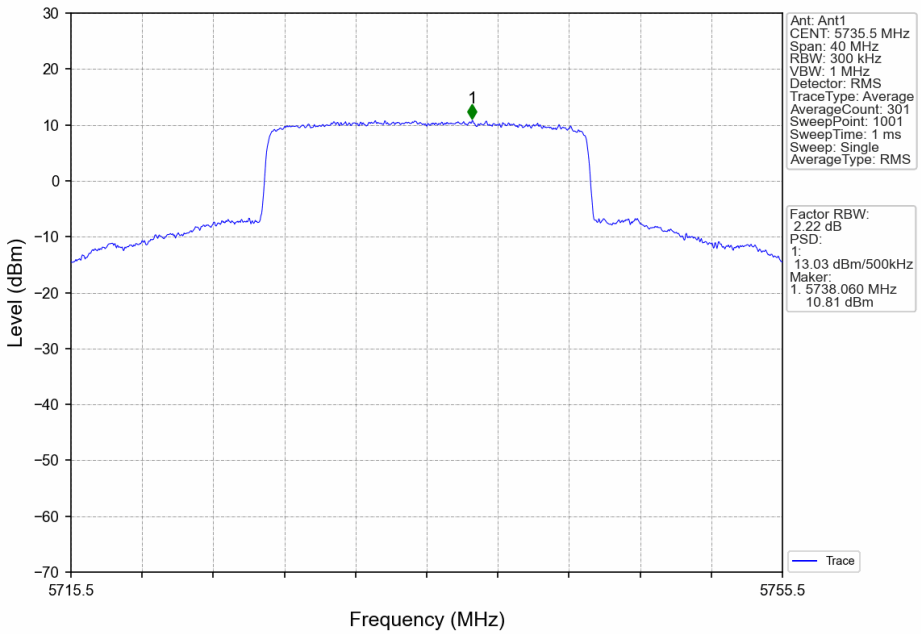

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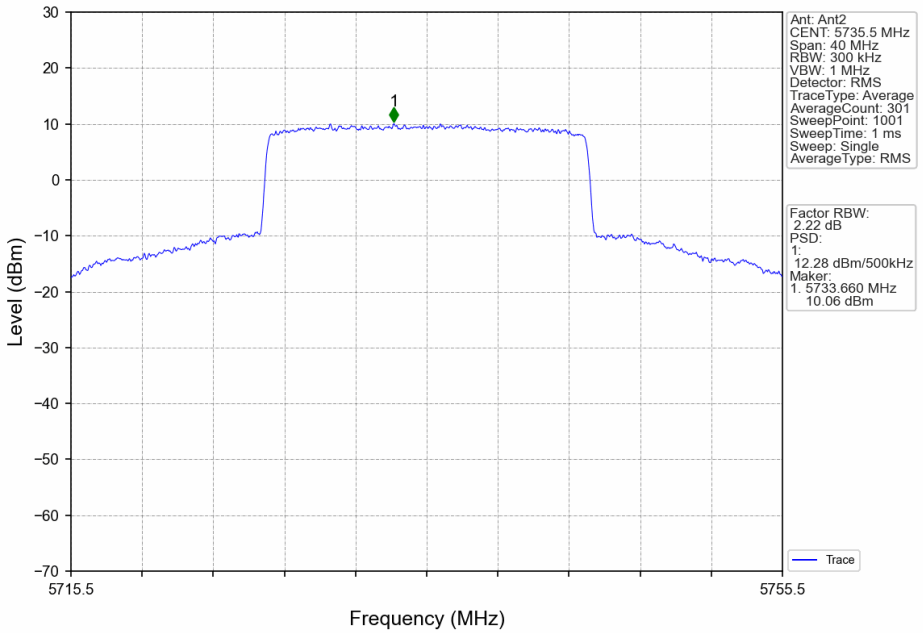
20M_LCH_5735.5MHz_Ant2_NTNV



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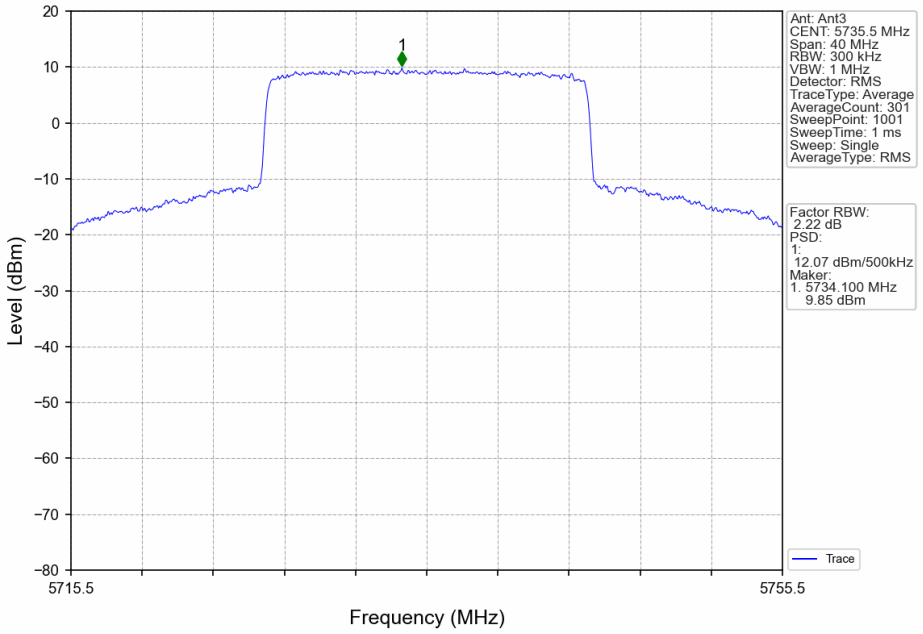

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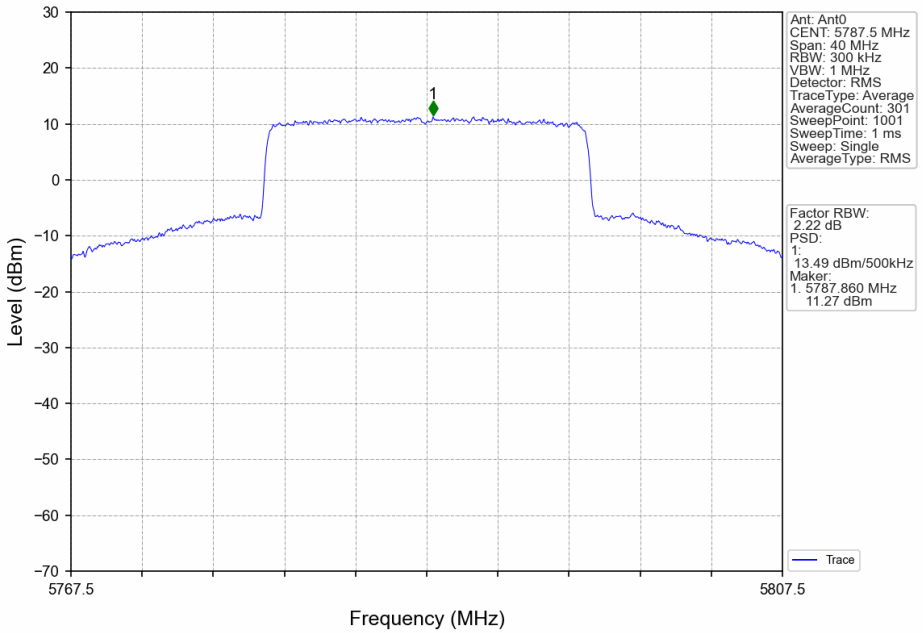
20M_MCH_5787.5MHz_Ant0_NTNV



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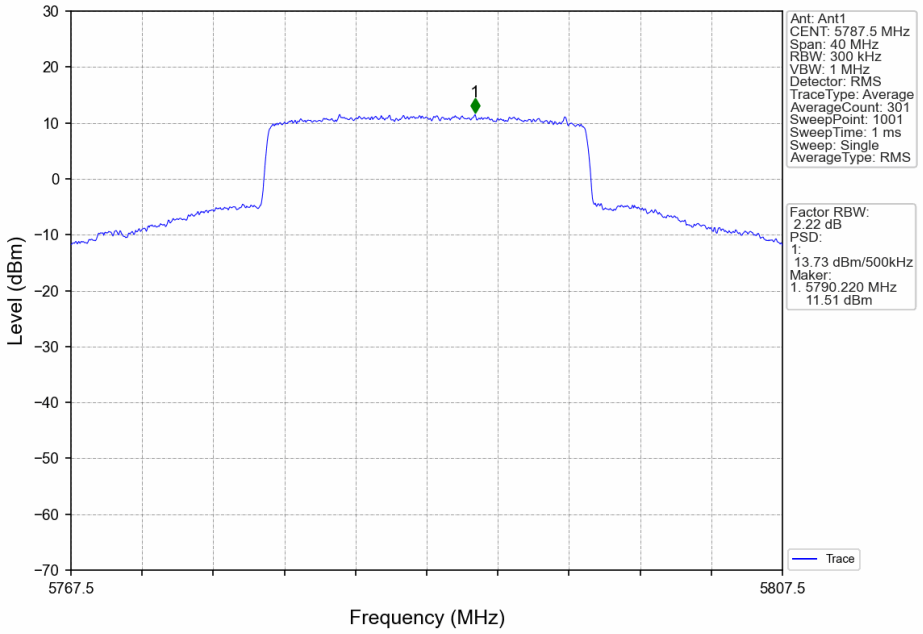

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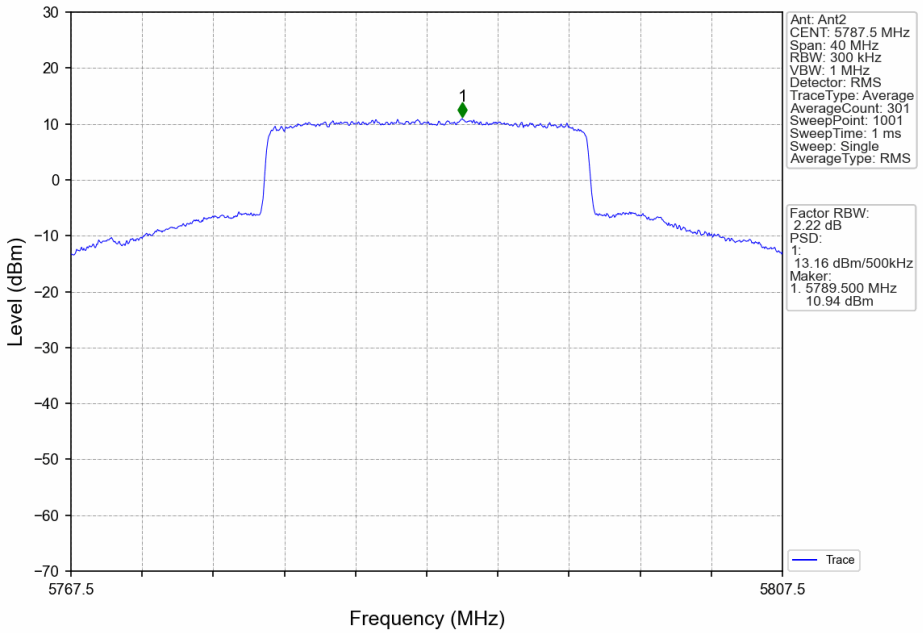
20M_MCH_5787.5MHz_Ant2_NTNV



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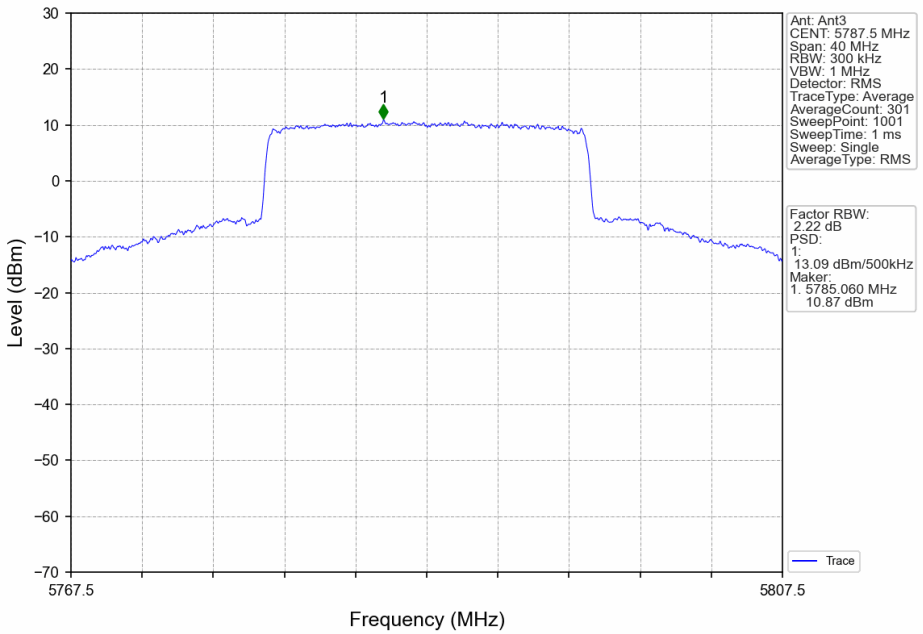

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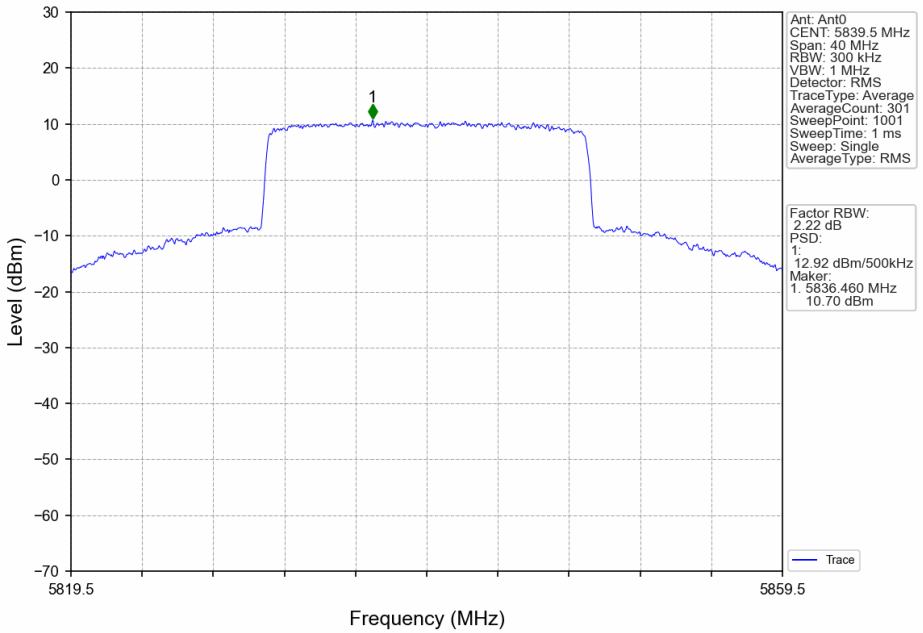
20M_HCH_5839.5MHz_Ant0_NTNV



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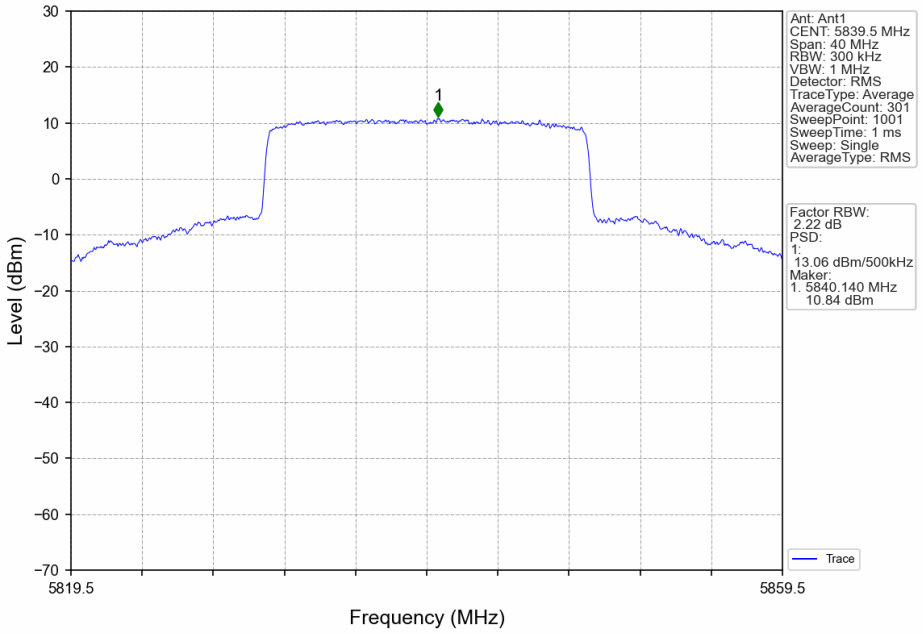

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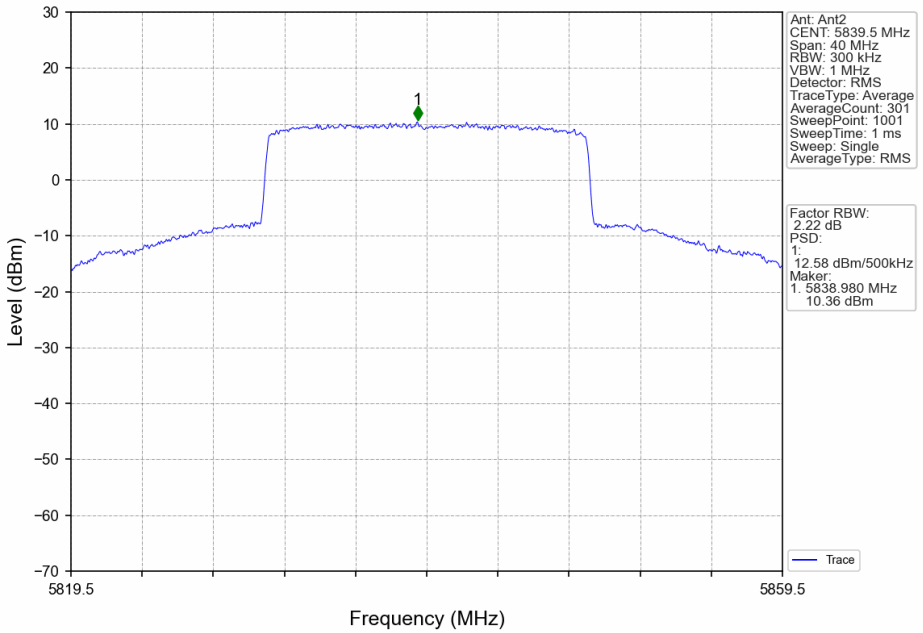
20M_HCH_5839.5MHz_Ant2_NTNV



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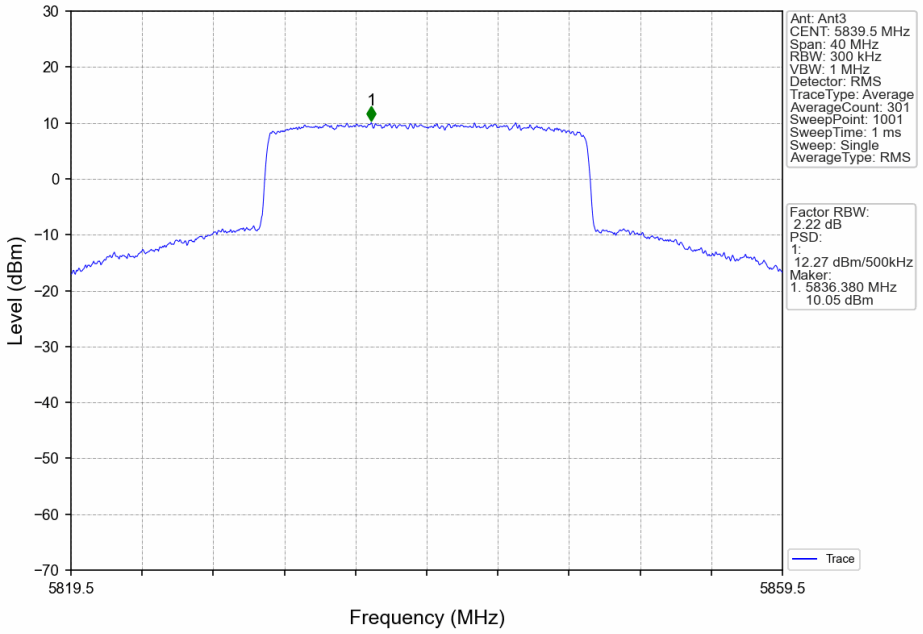

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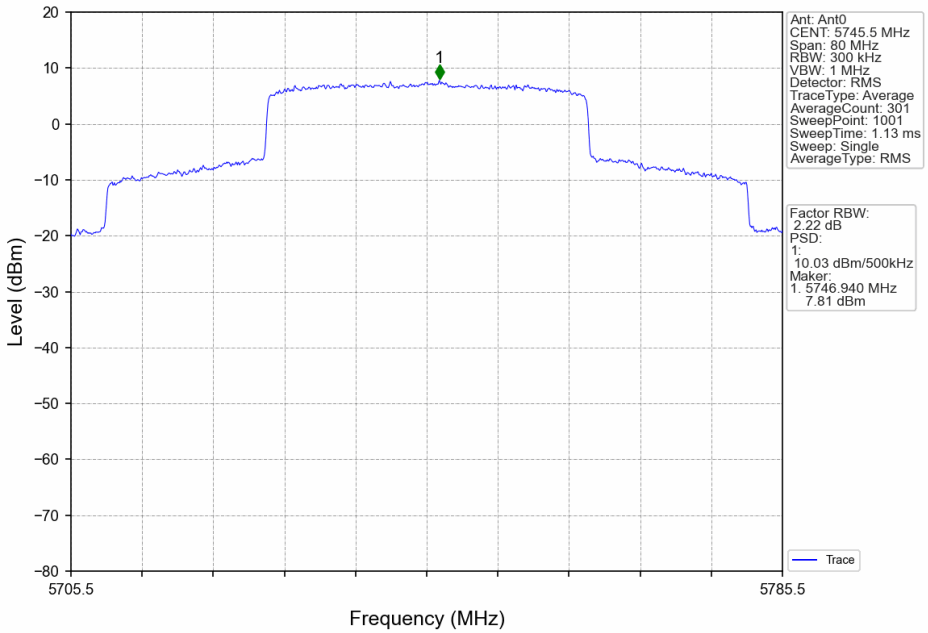
40M_LCH_5745.5MHz_Ant0_NTNV



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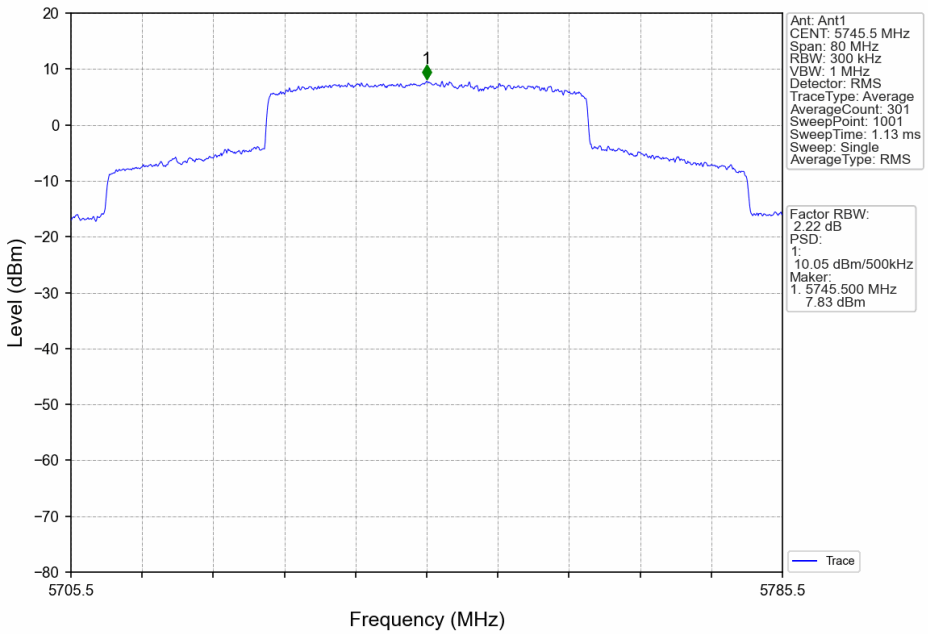

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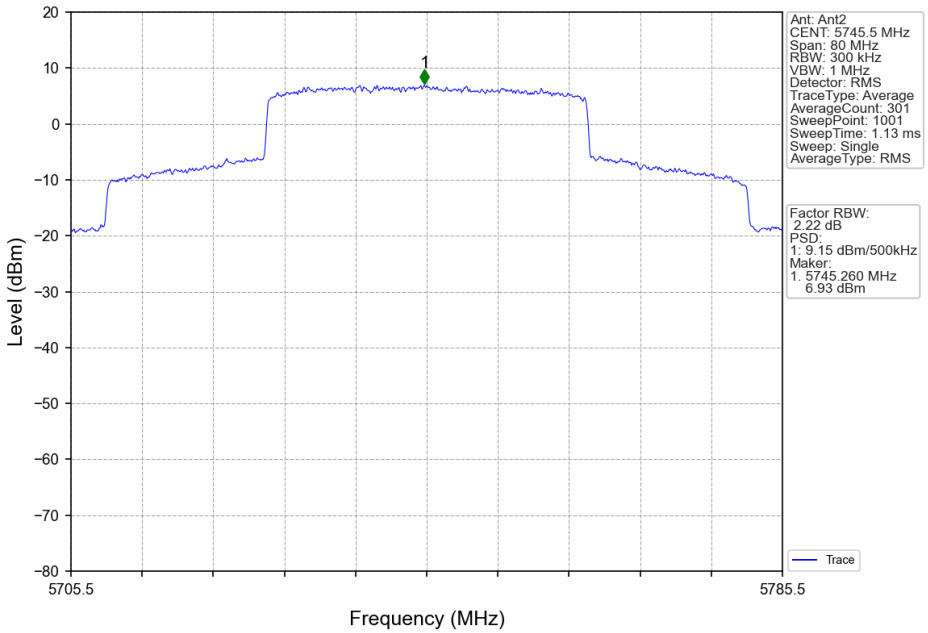
40M_LCH_5745.5MHz_Ant2_NTNV



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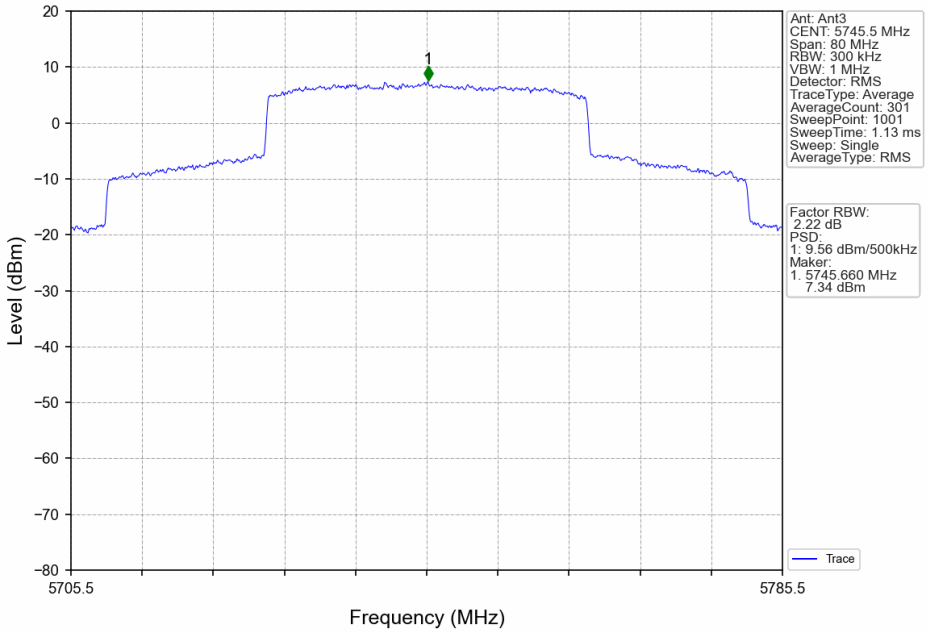

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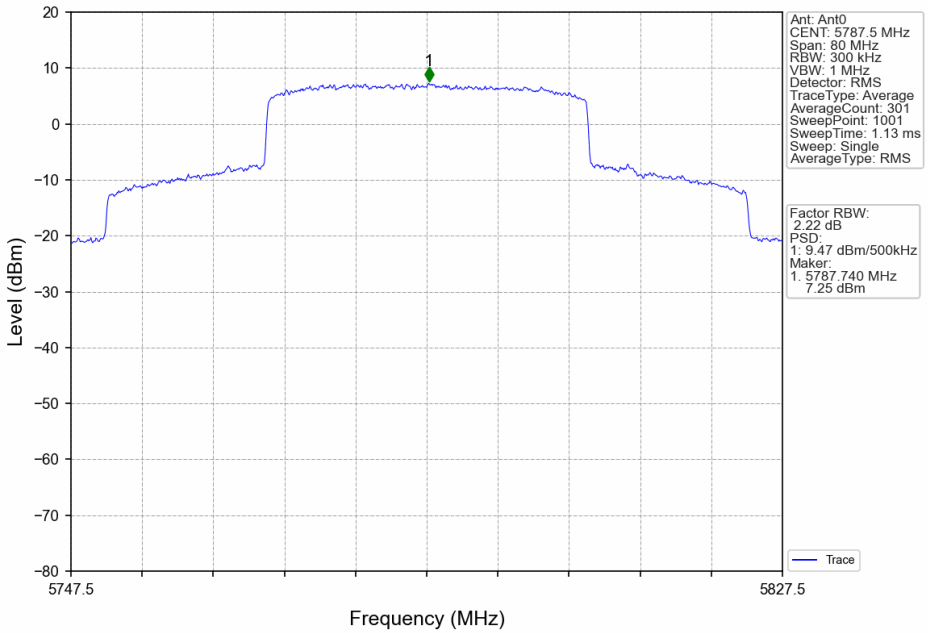
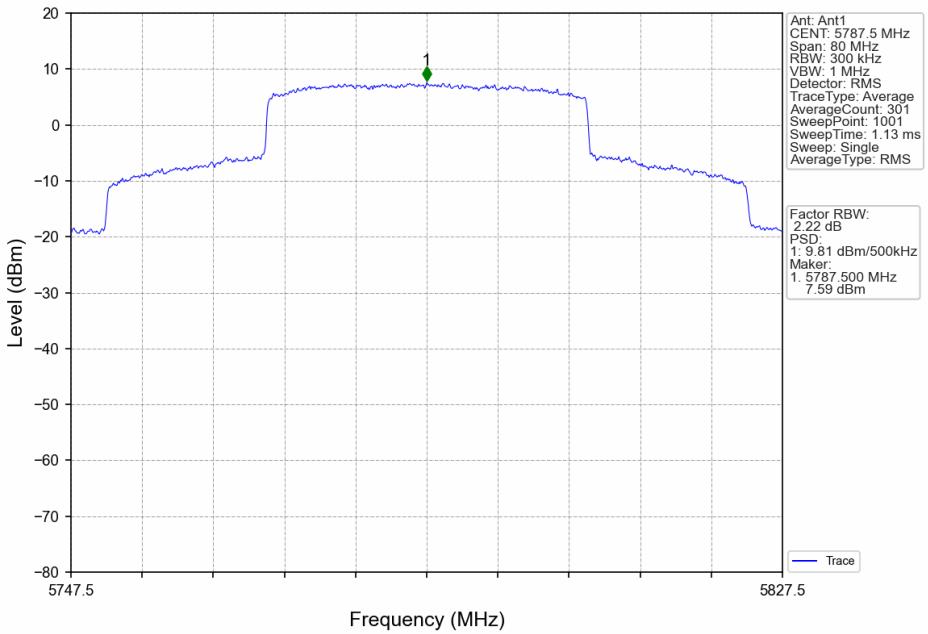
40M_MCH_5787.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant1_NTNV



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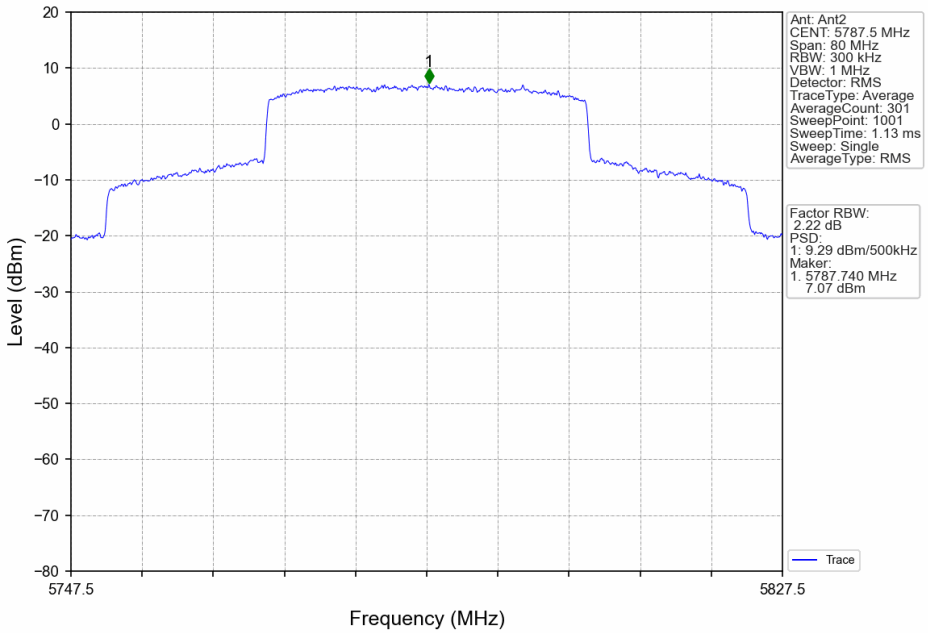
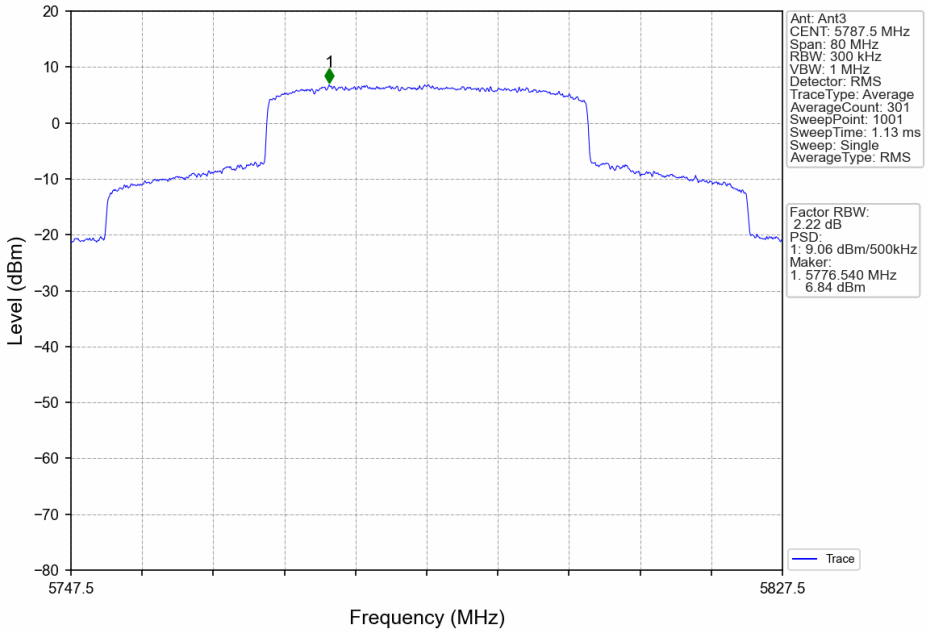
40M_MCH_5787.5MHz_Ant2_NTNV



40M_MCH_5787.5MHz_Ant3_NTNV



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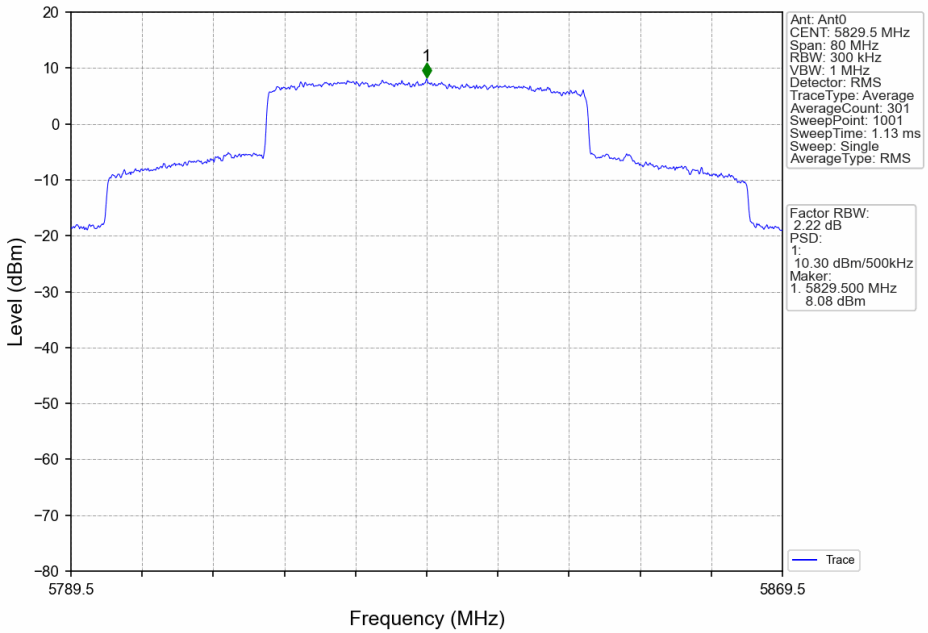
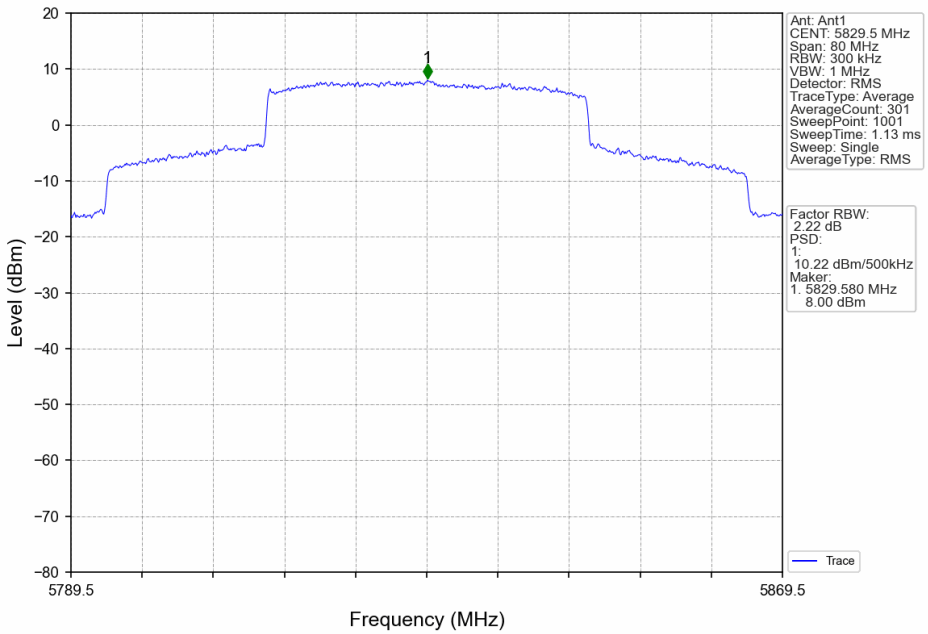
40M_HCH_5829.5MHz_Ant0_NTNV



40M_HCH_5829.5MHz_Ant1_NTNV



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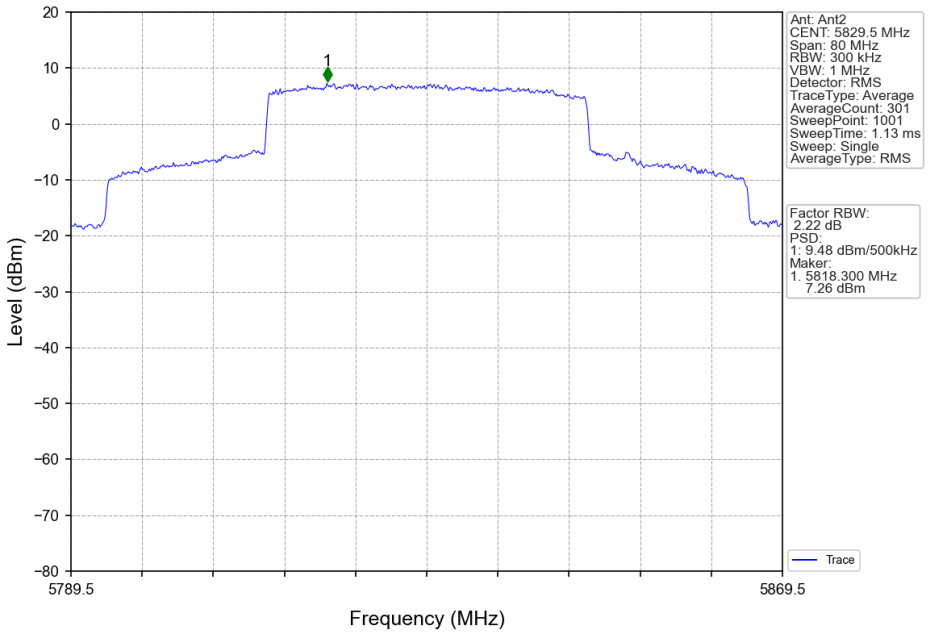
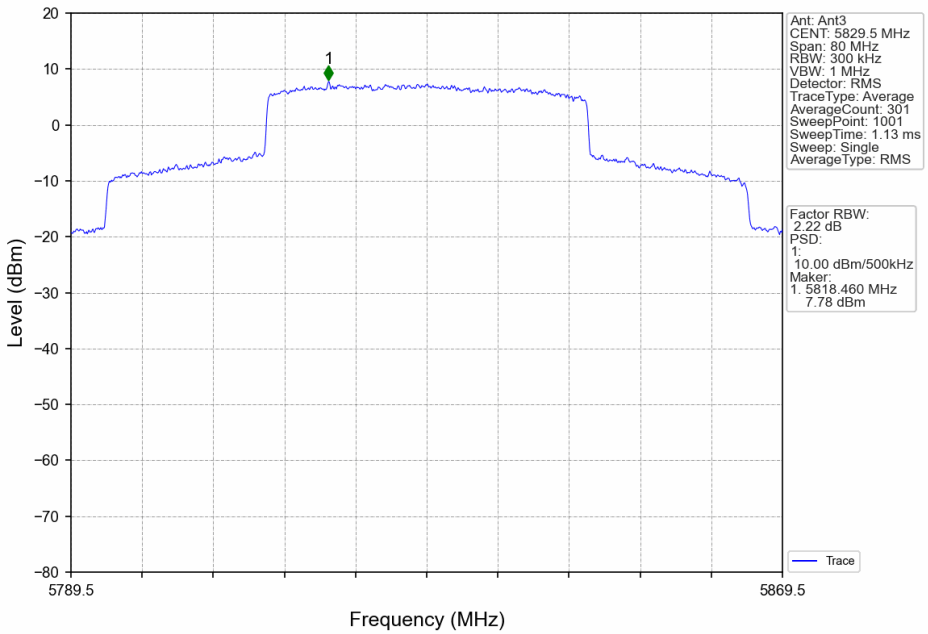
40M_HCH_5829.5MHz_Ant2_NTNV



40M_HCH_5829.5MHz_Ant3_NTNV



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5. Frequency Stability

5.1 Ant0

5.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
1.4M	SISO	5728.5	20	13.09	5728.497	5725 to 5850	Pass
				15.40	5728.497	5725 to 5850	Pass
				17.71	5728.497	5725 to 5850	Pass
			-10	15.40	5728.497	5725 to 5850	Pass
			-5	15.40	5728.501	5725 to 5850	Pass
			0	15.40	5728.499	5725 to 5850	Pass
			5	15.40	5728.499	5725 to 5850	Pass
			10	15.40	5728.501	5725 to 5850	Pass
			20	15.40	5728.500	5725 to 5850	Pass
			30	15.40	5728.497	5725 to 5850	Pass
			40	15.40	5728.501	5725 to 5850	Pass
		5786.5	20	13.09	5786.496	5725 to 5850	Pass
				15.40	5786.496	5725 to 5850	Pass
				17.71	5786.497	5725 to 5850	Pass
			-10	15.40	5786.497	5725 to 5850	Pass
			-5	15.40	5786.500	5725 to 5850	Pass
			0	15.40	5786.494	5725 to 5850	Pass
			5	15.40	5786.496	5725 to 5850	Pass
			10	15.40	5786.500	5725 to 5850	Pass
			20	15.40	5786.497	5725 to 5850	Pass
			30	15.40	5786.499	5725 to 5850	Pass
			40	15.40	5786.499	5725 to 5850	Pass
		5848.12	20	13.09	5848.117	5725 to 5850	Pass
				15.40	5848.117	5725 to 5850	Pass
				17.71	5848.119	5725 to 5850	Pass
			-10	15.40	5848.117	5725 to 5850	Pass
			-5	15.40	5848.117	5725 to 5850	Pass
			0	15.40	5848.114	5725 to 5850	Pass
			5	15.40	5848.117	5725 to 5850	Pass
			10	15.40	5848.117	5725 to 5850	Pass

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			20	15.40	5848.116	5725 to 5850	Pass
			30	15.40	5848.119	5725 to 5850	Pass
			40	15.40	5848.116	5725 to 5850	Pass
3M	SISO	5727.5	20	13.09	5727.515	5725 to 5850	Pass
				15.40	5727.509	5725 to 5850	Pass
				17.71	5727.533	5725 to 5850	Pass
			-10	15.40	5727.515	5725 to 5850	Pass
			-5	15.40	5727.515	5725 to 5850	Pass
			0	15.40	5727.506	5725 to 5850	Pass
			5	15.40	5727.500	5725 to 5850	Pass
			10	15.40	5727.512	5725 to 5850	Pass
			20	15.40	5727.527	5725 to 5850	Pass
			30	15.40	5727.509	5725 to 5850	Pass
			40	15.40	5727.509	5725 to 5850	Pass
		5784.5	20	13.09	5784.500	5725 to 5850	Pass
				15.40	5784.497	5725 to 5850	Pass
				17.71	5784.521	5725 to 5850	Pass
			-10	15.40	5784.524	5725 to 5850	Pass
			-5	15.40	5784.527	5725 to 5850	Pass
			0	15.40	5784.527	5725 to 5850	Pass
			5	15.40	5784.515	5725 to 5850	Pass
			10	15.40	5784.515	5725 to 5850	Pass
			20	15.40	5784.527	5725 to 5850	Pass
			30	15.40	5784.515	5725 to 5850	Pass
			40	15.40	5784.497	5725 to 5850	Pass
		5847.2	20	13.09	5847.212	5725 to 5850	Pass
				15.40	5847.200	5725 to 5850	Pass
				17.71	5847.227	5725 to 5850	Pass
			-10	15.40	5847.227	5725 to 5850	Pass
			-5	15.40	5847.227	5725 to 5850	Pass
			0	15.40	5847.221	5725 to 5850	Pass
			5	15.40	5847.200	5725 to 5850	Pass
			10	15.40	5847.200	5725 to 5850	Pass
			20	15.40	5847.227	5725 to 5850	Pass
			30	15.40	5847.230	5725 to 5850	Pass
			40	15.40	5847.212	5725 to 5850	Pass
10M	SISO	5730.5	20	13.09	5730.530	5725 to 5850	Pass
				15.40	5730.490	5725 to 5850	Pass
				17.71	5730.510	5725 to 5850	Pass
			-10	15.40	5730.510	5725 to 5850	Pass

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			-5	15.40	5730.520	5725 to 5850	Pass
			0	15.40	5730.550	5725 to 5850	Pass
			5	15.40	5730.480	5725 to 5850	Pass
			10	15.40	5730.530	5725 to 5850	Pass
			20	15.40	5730.510	5725 to 5850	Pass
			30	15.40	5730.590	5725 to 5850	Pass
			40	15.40	5730.480	5725 to 5850	Pass
		5787.5	20	13.09	5787.550	5725 to 5850	Pass
				15.40	5787.490	5725 to 5850	Pass
				17.71	5787.550	5725 to 5850	Pass
			-10	15.40	5787.500	5725 to 5850	Pass
			-5	15.40	5787.490	5725 to 5850	Pass
			0	15.40	5787.510	5725 to 5850	Pass
			5	15.40	5787.530	5725 to 5850	Pass
			10	15.40	5787.510	5725 to 5850	Pass
			20	15.40	5787.530	5725 to 5850	Pass
			30	15.40	5787.600	5725 to 5850	Pass
			40	15.40	5787.450	5725 to 5850	Pass
		5844.5	20	13.09	5844.490	5725 to 5850	Pass
				15.40	5844.480	5725 to 5850	Pass
				17.71	5844.470	5725 to 5850	Pass
			-10	15.40	5844.500	5725 to 5850	Pass
			-5	15.40	5844.610	5725 to 5850	Pass
			0	15.40	5844.570	5725 to 5850	Pass
			5	15.40	5844.520	5725 to 5850	Pass
			10	15.40	5844.520	5725 to 5850	Pass
			20	15.40	5844.580	5725 to 5850	Pass
			30	15.40	5844.510	5725 to 5850	Pass
			40	15.40	5844.560	5725 to 5850	Pass
20M	SISO	5735.5	20	13.09	5735.540	5725 to 5850	Pass
				15.40	5735.480	5725 to 5850	Pass
				17.71	5735.500	5725 to 5850	Pass
			-10	15.40	5735.420	5725 to 5850	Pass
			-5	15.40	5735.400	5725 to 5850	Pass
			0	15.40	5735.460	5725 to 5850	Pass
			5	15.40	5735.540	5725 to 5850	Pass
			10	15.40	5735.660	5725 to 5850	Pass
			20	15.40	5735.500	5725 to 5850	Pass
			30	15.40	5735.480	5725 to 5850	Pass
			40	15.40	5735.640	5725 to 5850	Pass

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		5787.5	20	13.09	5787.360	5725 to 5850	Pass
				15.40	5787.320	5725 to 5850	Pass
				17.71	5787.360	5725 to 5850	Pass
			-10	15.40	5787.180	5725 to 5850	Pass
			-5	15.40	5787.700	5725 to 5850	Pass
			0	15.40	5787.460	5725 to 5850	Pass
			5	15.40	5787.520	5725 to 5850	Pass
			10	15.40	5787.520	5725 to 5850	Pass
			20	15.40	5787.660	5725 to 5850	Pass
			30	15.40	5787.500	5725 to 5850	Pass
			40	15.40	5787.480	5725 to 5850	Pass
		5839.5	20	13.09	5839.660	5725 to 5850	Pass
				15.40	5839.660	5725 to 5850	Pass
				17.71	5839.300	5725 to 5850	Pass
			-10	15.40	5839.520	5725 to 5850	Pass
			-5	15.40	5839.500	5725 to 5850	Pass
			0	15.40	5839.600	5725 to 5850	Pass
			5	15.40	5839.400	5725 to 5850	Pass
			10	15.40	5839.680	5725 to 5850	Pass
			20	15.40	5839.580	5725 to 5850	Pass
			30	15.40	5839.380	5725 to 5850	Pass
			40	15.40	5839.280	5725 to 5850	Pass
40M	SISO	5745.5	20	13.09	5744.740	5725 to 5850	Pass
				15.40	5745.260	5725 to 5850	Pass
				17.71	5745.620	5725 to 5850	Pass
			-10	15.40	5745.500	5725 to 5850	Pass
			-5	15.40	5745.140	5725 to 5850	Pass
			0	15.40	5745.580	5725 to 5850	Pass
			5	15.40	5745.140	5725 to 5850	Pass
			10	15.40	5745.380	5725 to 5850	Pass
			20	15.40	5745.620	5725 to 5850	Pass
			30	15.40	5745.180	5725 to 5850	Pass
			40	15.40	5745.580	5725 to 5850	Pass
		5787.5	20	13.09	5787.700	5725 to 5850	Pass
				15.40	5787.820	5725 to 5850	Pass
				17.71	5786.420	5725 to 5850	Pass
			-10	15.40	5787.620	5725 to 5850	Pass
			-5	15.40	5787.300	5725 to 5850	Pass
			0	15.40	5787.860	5725 to 5850	Pass
			5	15.40	5787.700	5725 to 5850	Pass

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			10	15.40	5787.660	5725 to 5850	Pass
			20	15.40	5787.540	5725 to 5850	Pass
			30	15.40	5787.420	5725 to 5850	Pass
			40	15.40	5787.580	5725 to 5850	Pass
		5829.5	20	13.09	5829.580	5725 to 5850	Pass
				15.40	5829.420	5725 to 5850	Pass
				17.71	5829.420	5725 to 5850	Pass
			-10	15.40	5829.140	5725 to 5850	Pass
			-5	15.40	5829.300	5725 to 5850	Pass
			0	15.40	5829.580	5725 to 5850	Pass
			5	15.40	5829.420	5725 to 5850	Pass
			10	15.40	5829.460	5725 to 5850	Pass
			20	15.40	5829.340	5725 to 5850	Pass
			30	15.40	5829.420	5725 to 5850	Pass
			40	15.40	5829.580	5725 to 5850	Pass

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5.8G SDR MIMO Mode (ANT0 combined ANT3 is the worst-case, only the worst-case test data were reported)

1. Duty Cycle

1.1 Ant0

1.1.1 Test Result

Ant0							
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
		5848.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	5727.5	100.000	100.000	100.00	0.00	0.00
		5784.5	100.000	100.000	100.00	0.00	0.00
		5847.2	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

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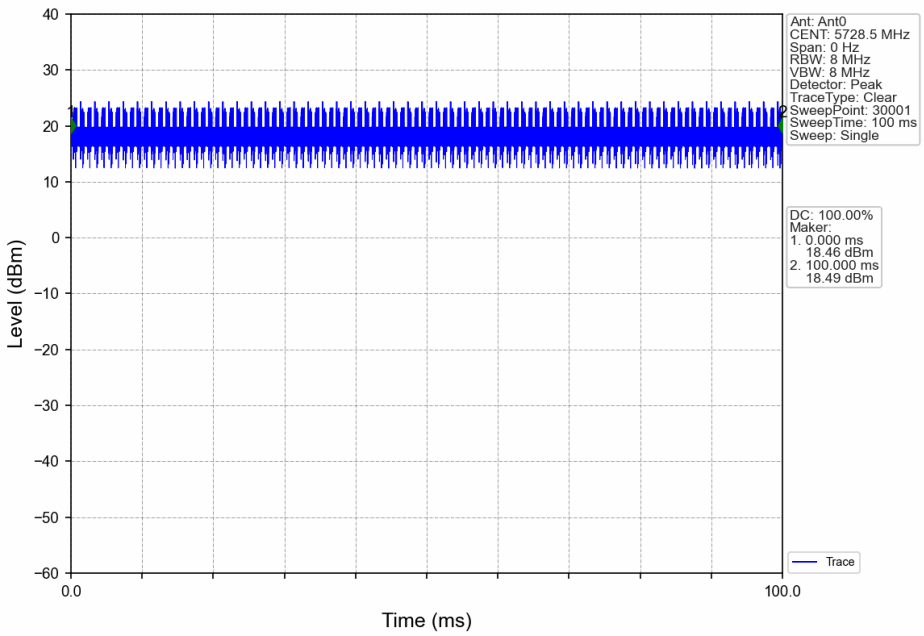
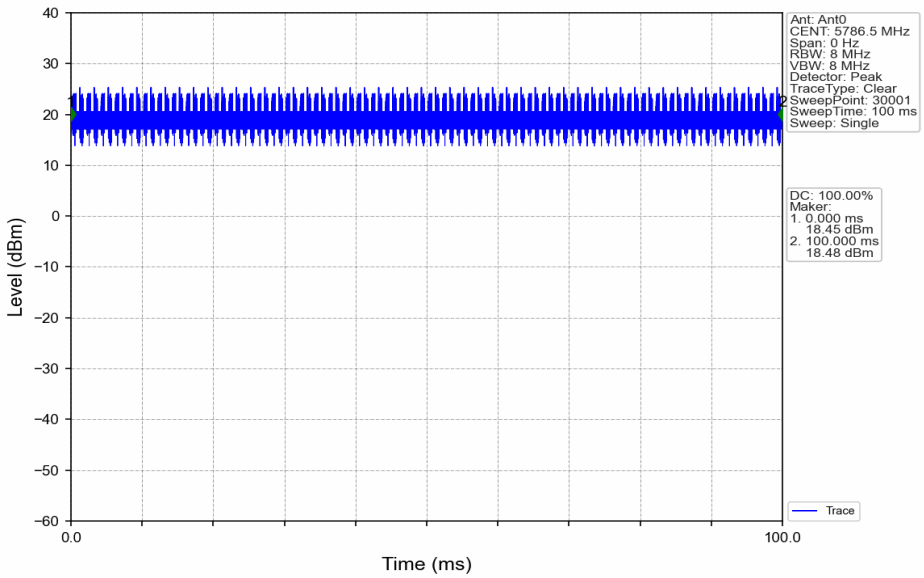
1.1.2 Test Graph

1.4M_LCH_5728.5MHz_Ant0_NTNV



1.4M_MCH_5786.5MHz_Ant0_NTNV



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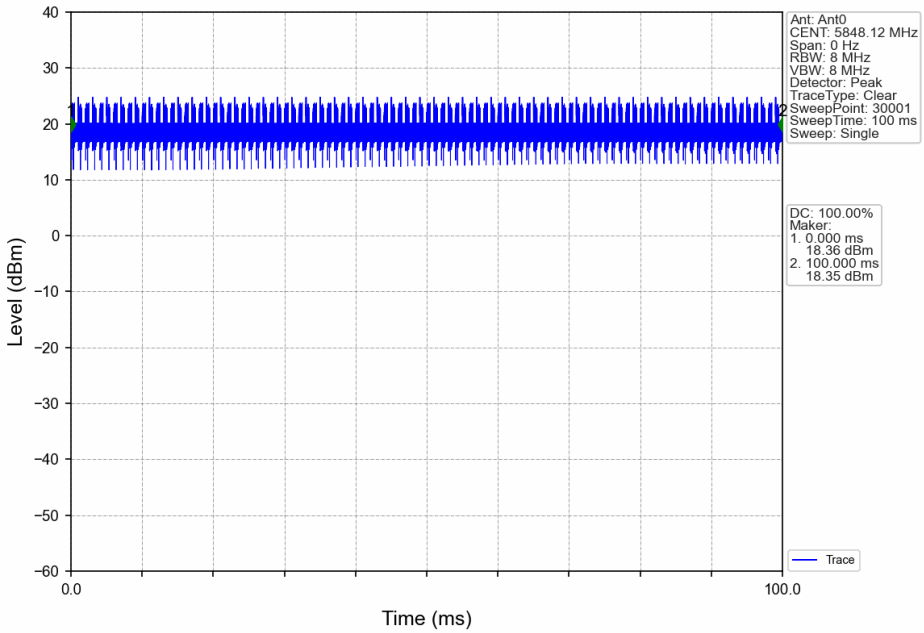
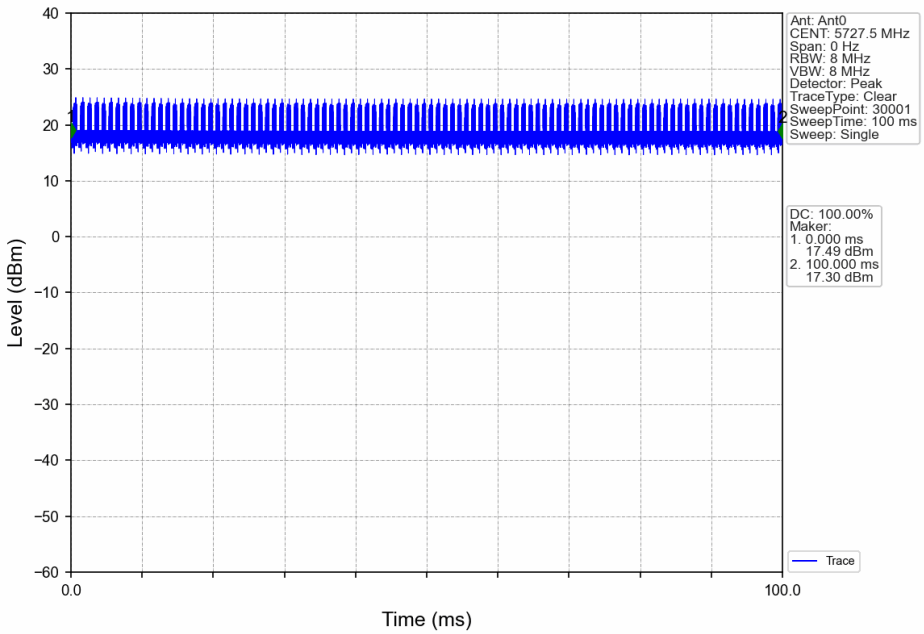
1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



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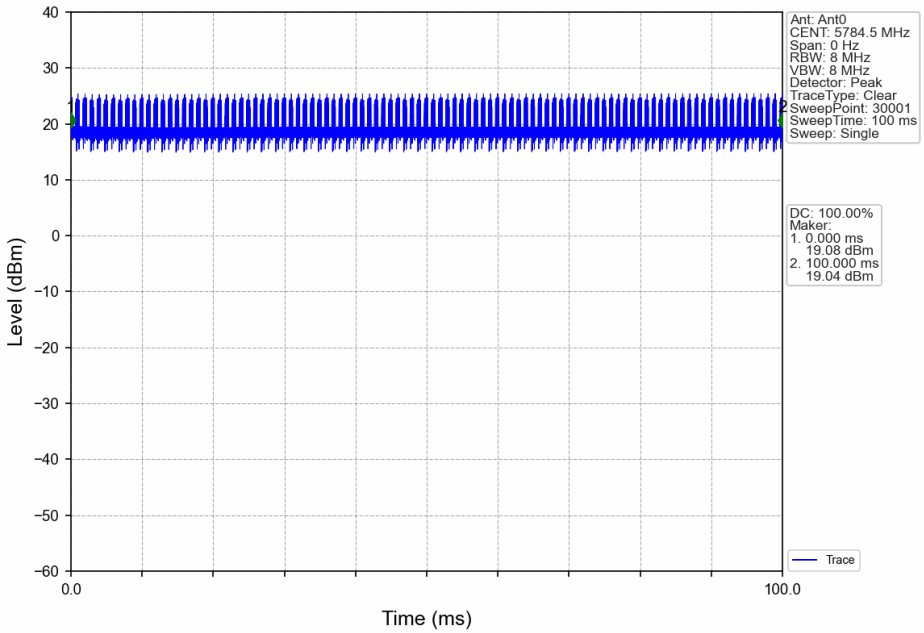
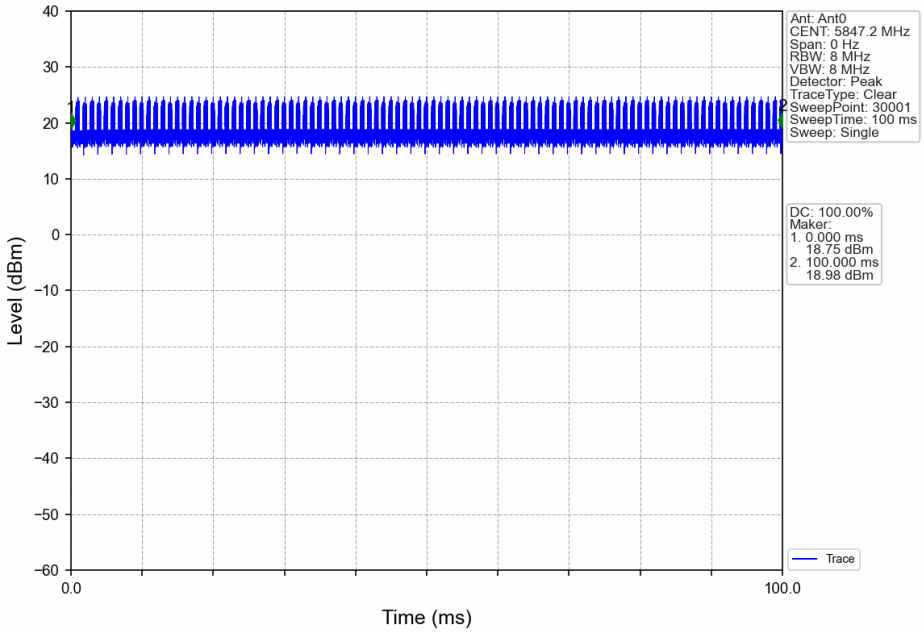
3M_MCH_5784.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



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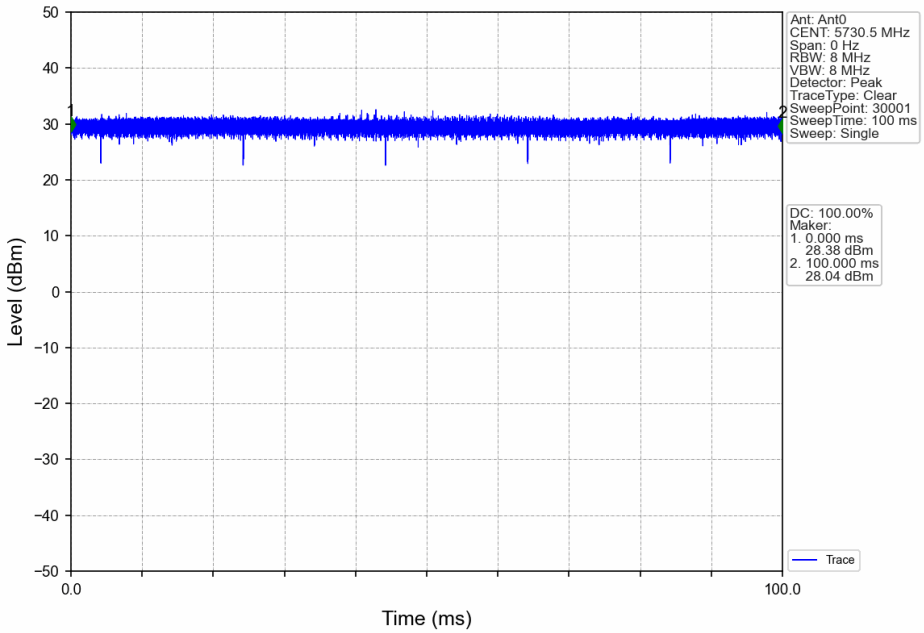
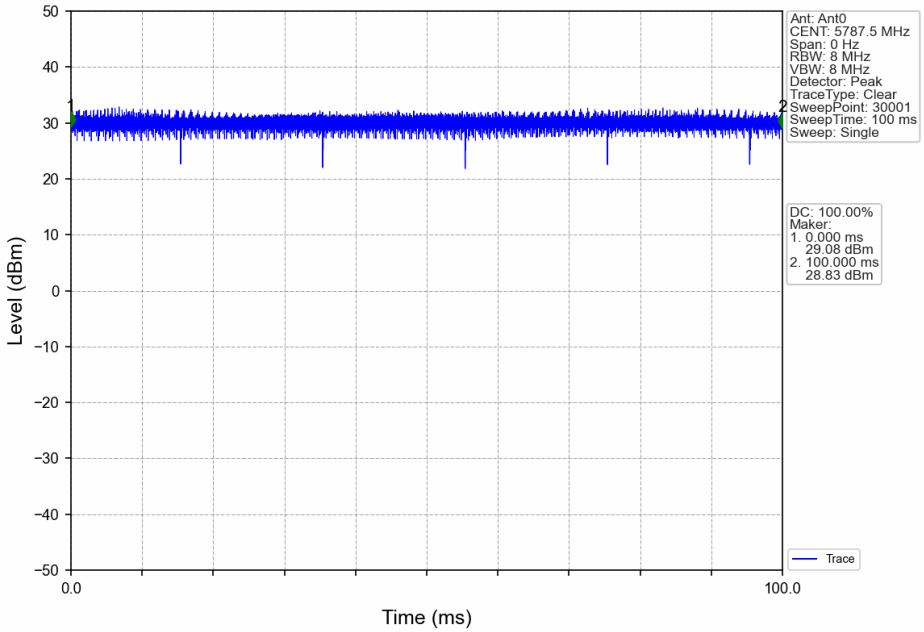
10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



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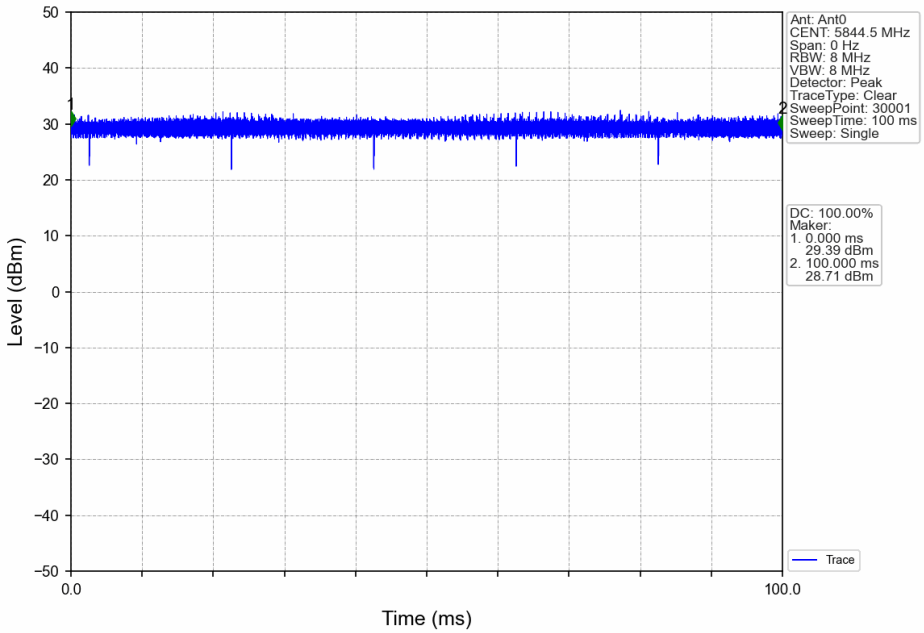
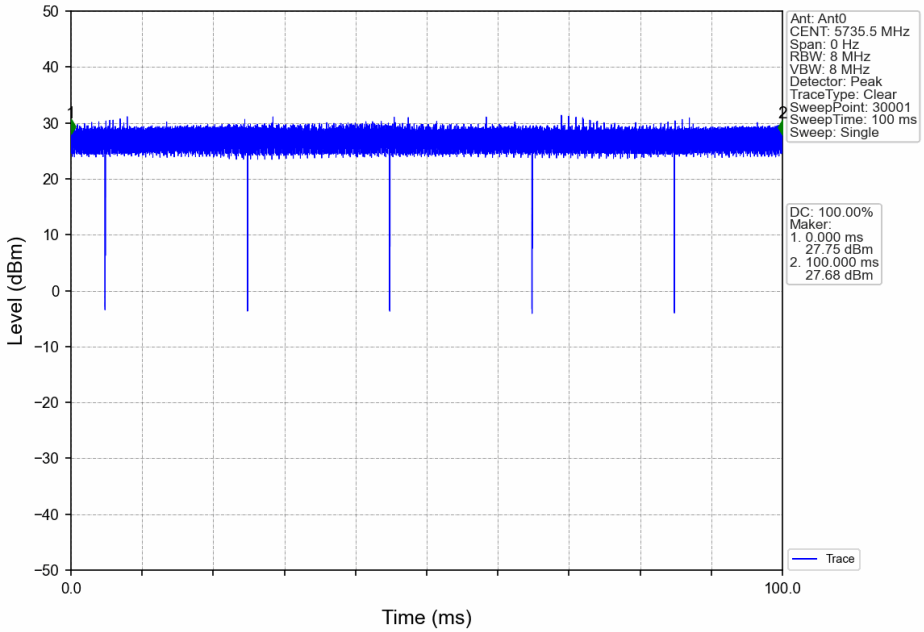
10M_HCH_5844.5MHz_Ant0_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



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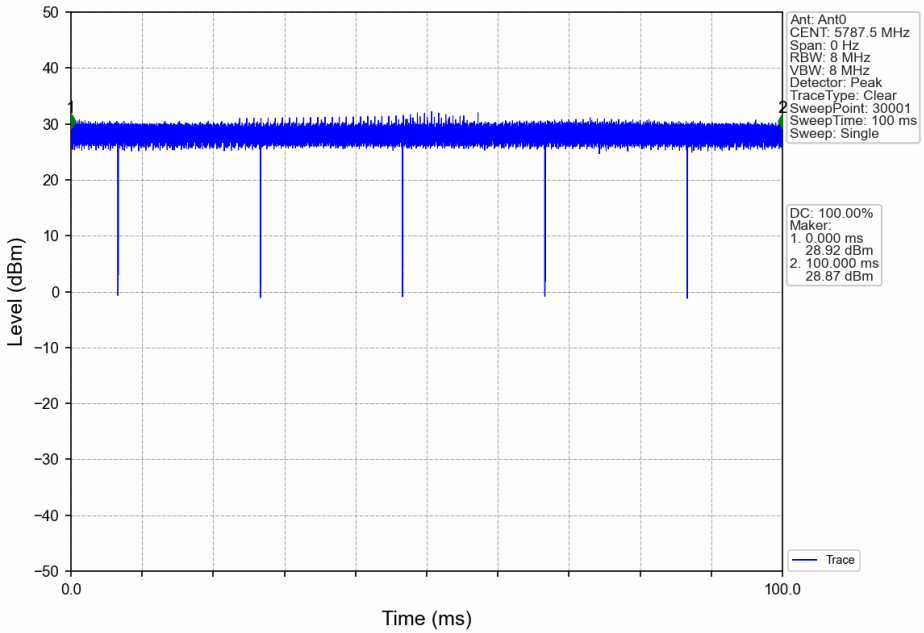
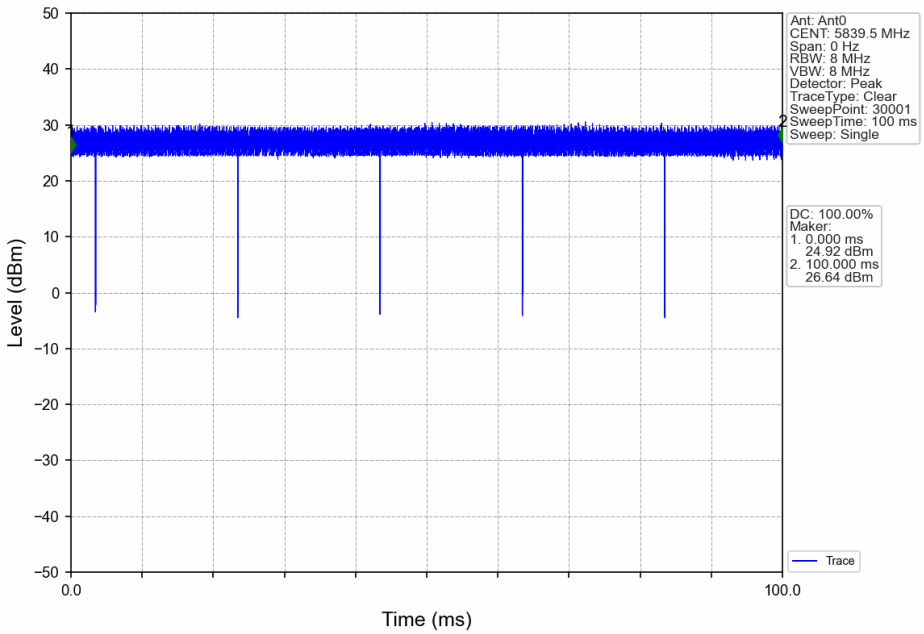
20M_MCH_5787.5MHz_Ant0_NTNV



20M_HCH_5839.5MHz_Ant0_NTNV



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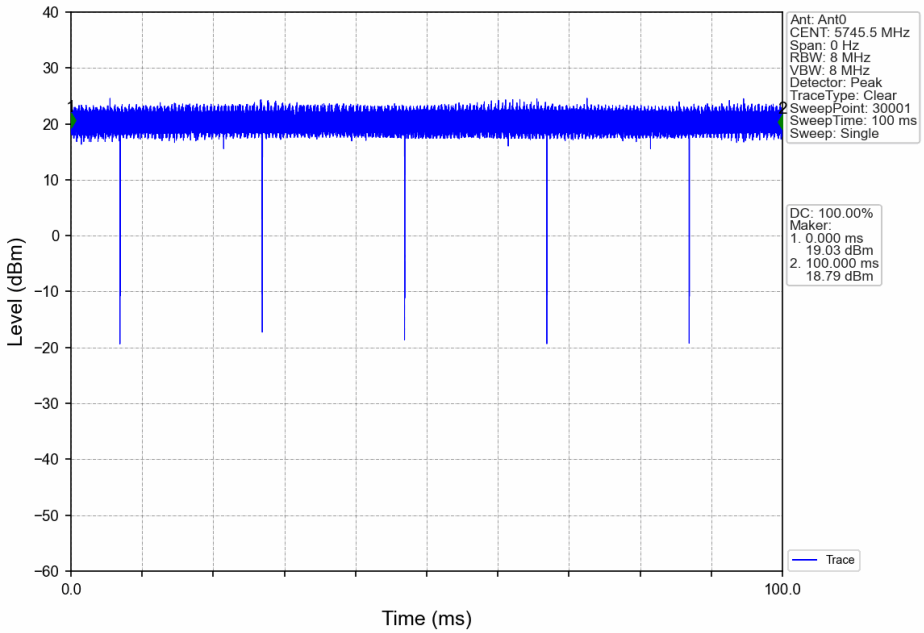
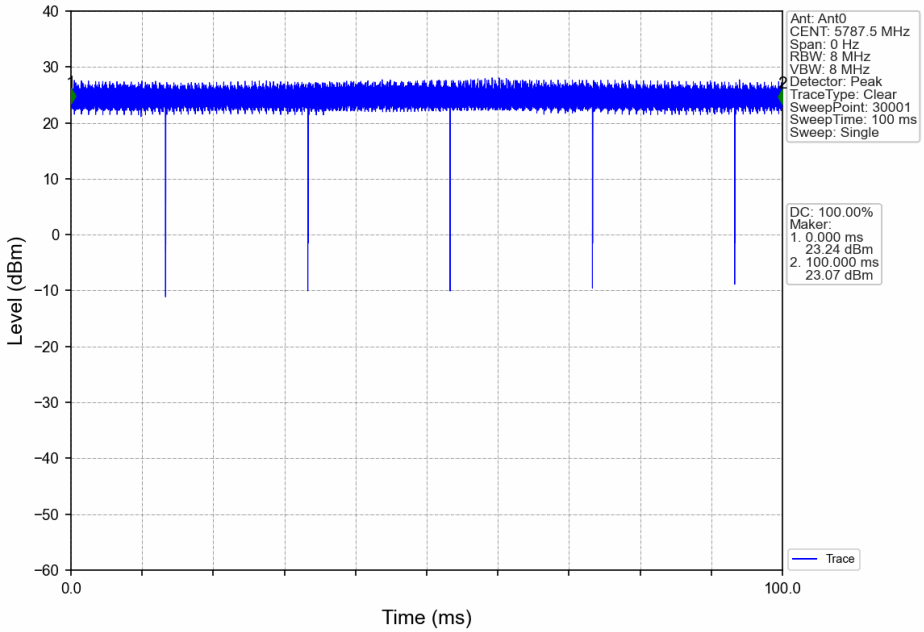
40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV



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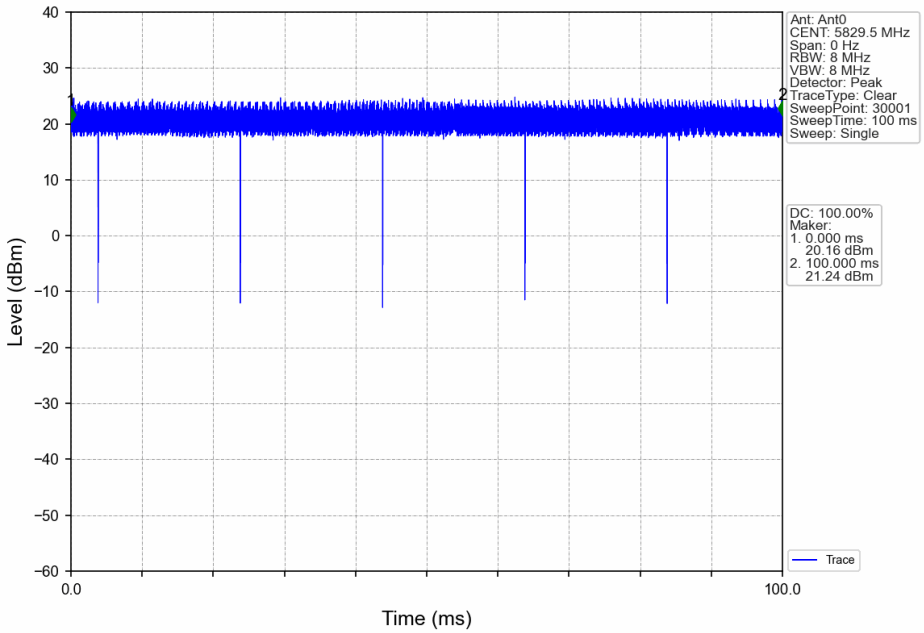
40M_HCH_5829.5MHz_Ant0_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	0	1.216	/	Pass
		5786.5	0	1.219	/	Pass
		5848.12	0	1.218	/	Pass
3M	MIMO	5727.5	0	2.290	/	Pass
		5784.5	0	2.287	/	Pass
		5847.2	0	2.283	/	Pass
10M	MIMO	5730.5	0	9.102	/	Pass
		5787.5	0	9.102	/	Pass
		5844.5	0	9.194	/	Pass
20M	MIMO	5735.5	0	18.041	/	Pass
		5787.5	0	18.212	/	Pass
		5839.5	0	18.120	/	Pass
40M	MIMO	5745.5	0	36.304	/	Pass
		5787.5	0	46.934	/	Pass
		5829.5	0	36.151	/	Pass

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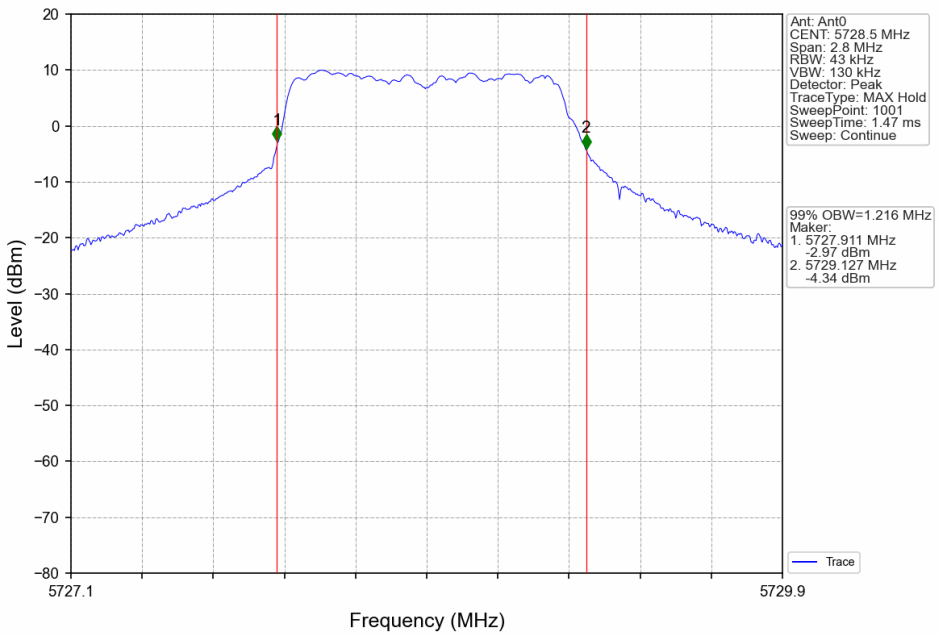
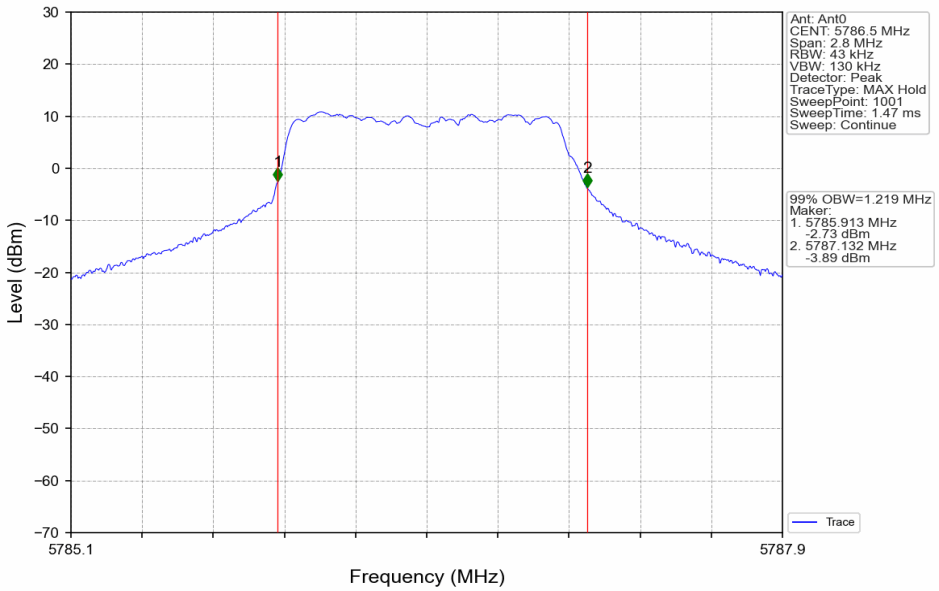
2.1.2 Test Graph

1.4M_LCH_5728.5MHz_Ant0_NTNV



1.4M_MCH_5786.5MHz_Ant0_NTNV



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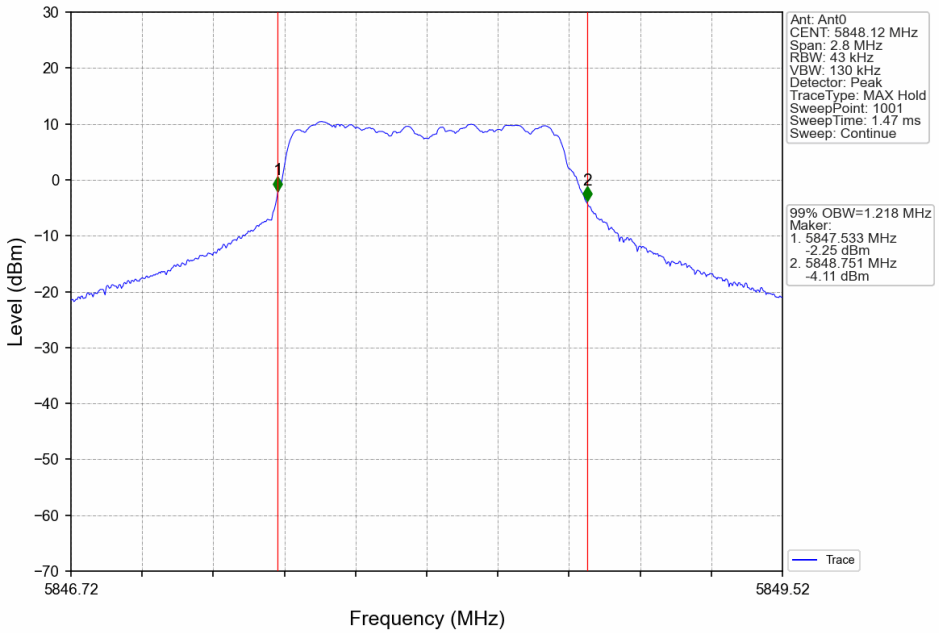
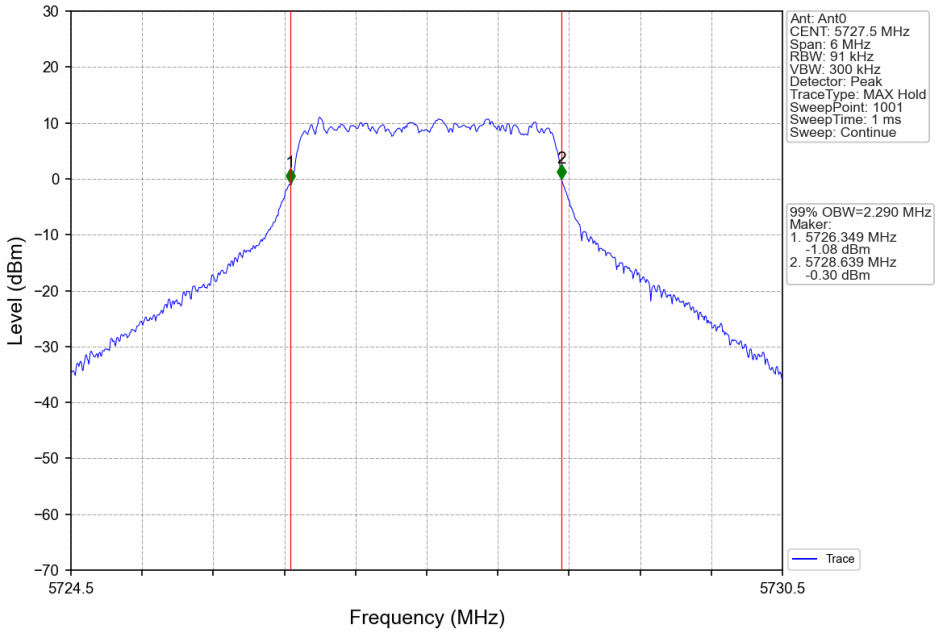
1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



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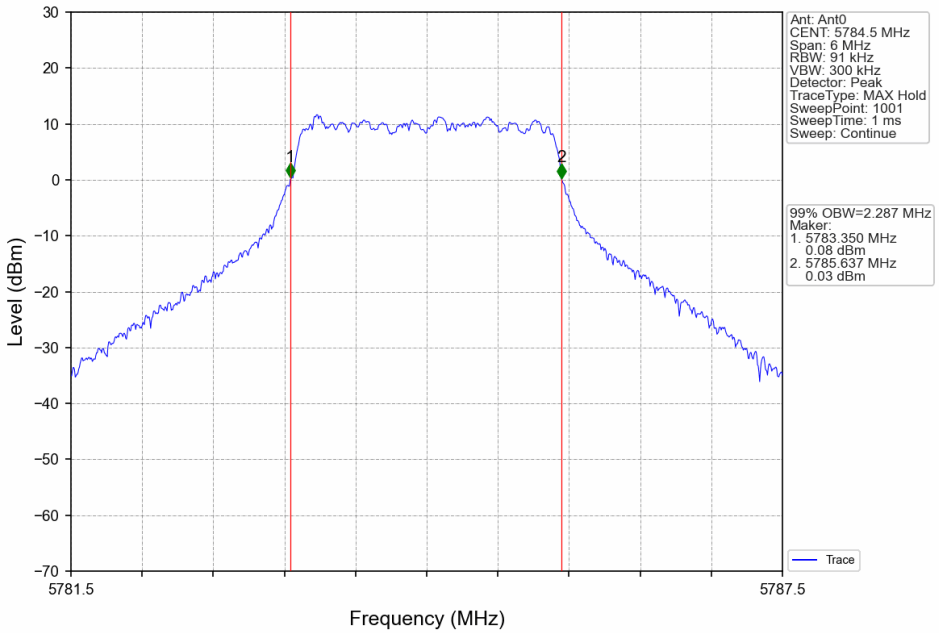
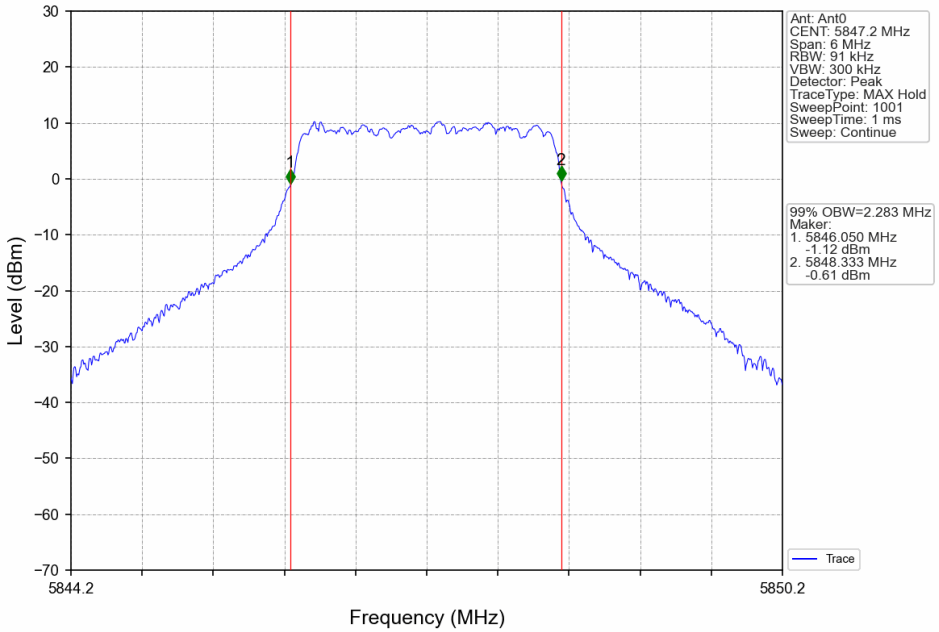
3M_MCH_5784.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



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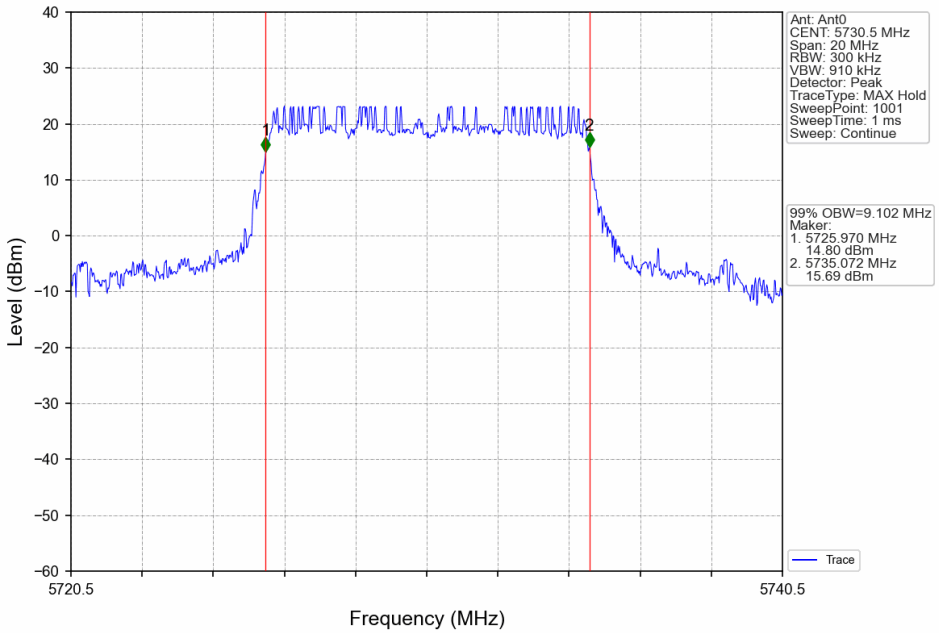
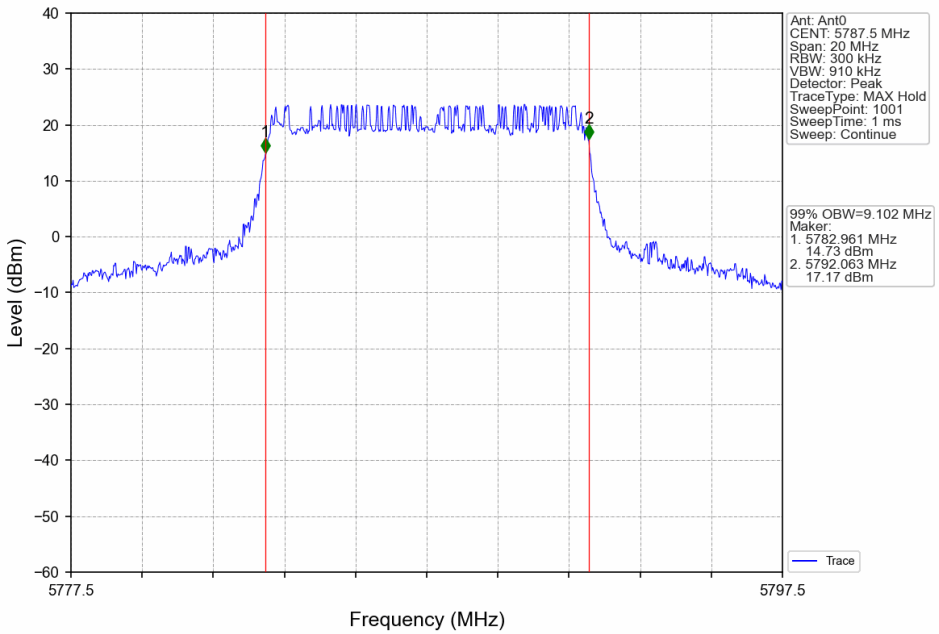
10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



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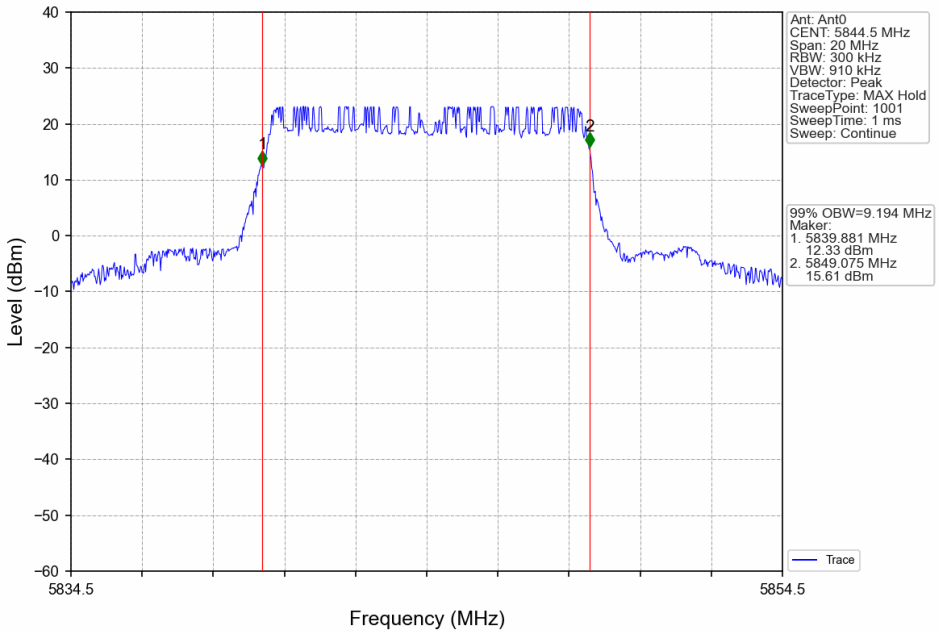
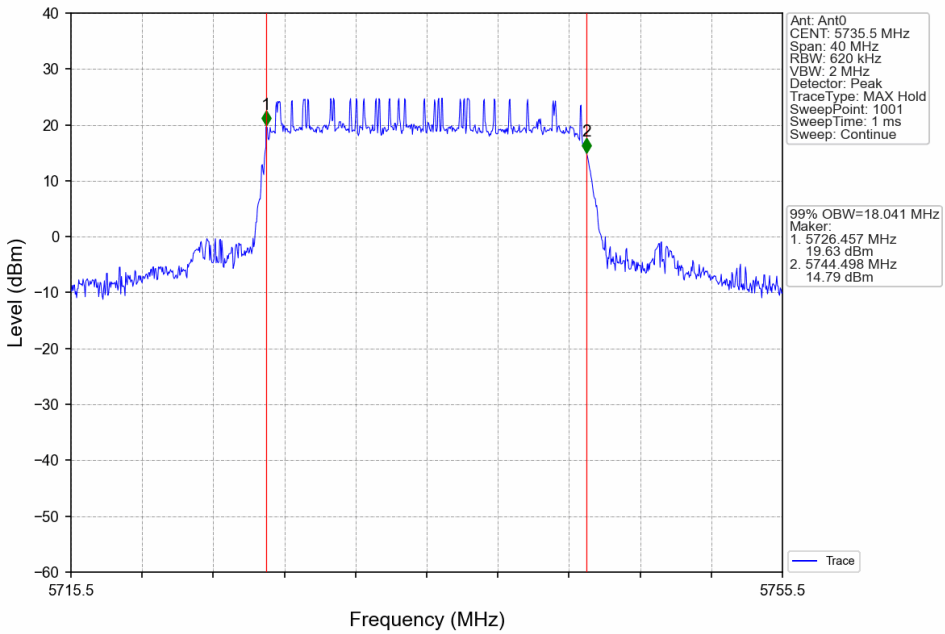
10M_HCH_5844.5MHz_Ant0_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



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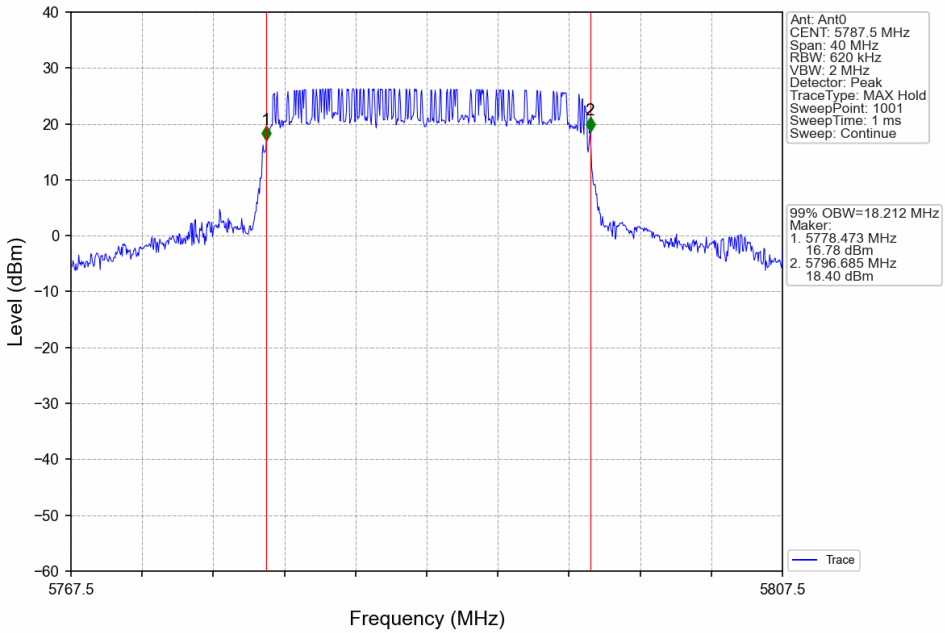
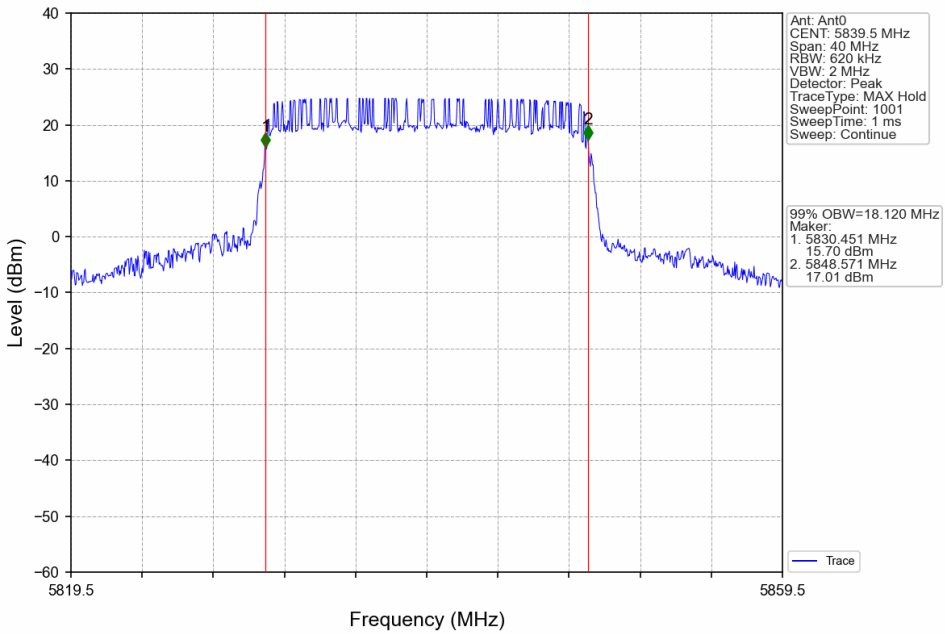
20M_MCH_5787.5MHz_Ant0_NTNV



20M_HCH_5839.5MHz_Ant0_NTNV



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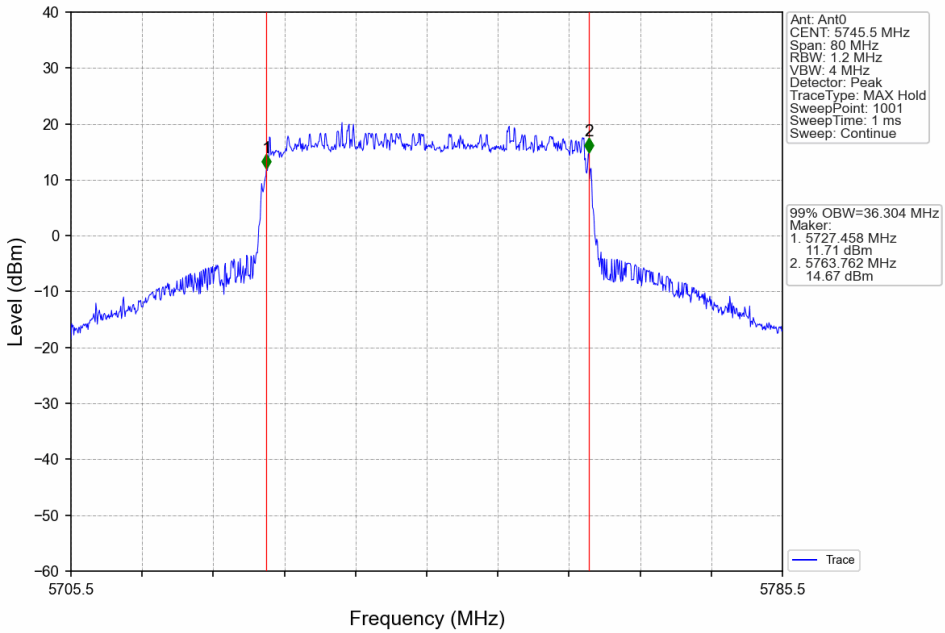
40M_LCH_5745.5MHz_Ant0_NTNV



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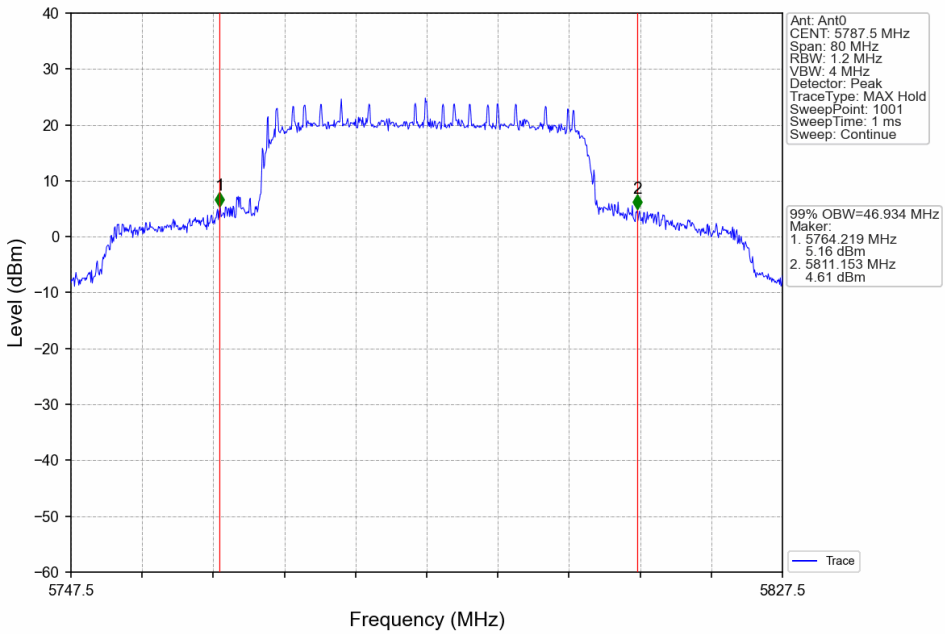

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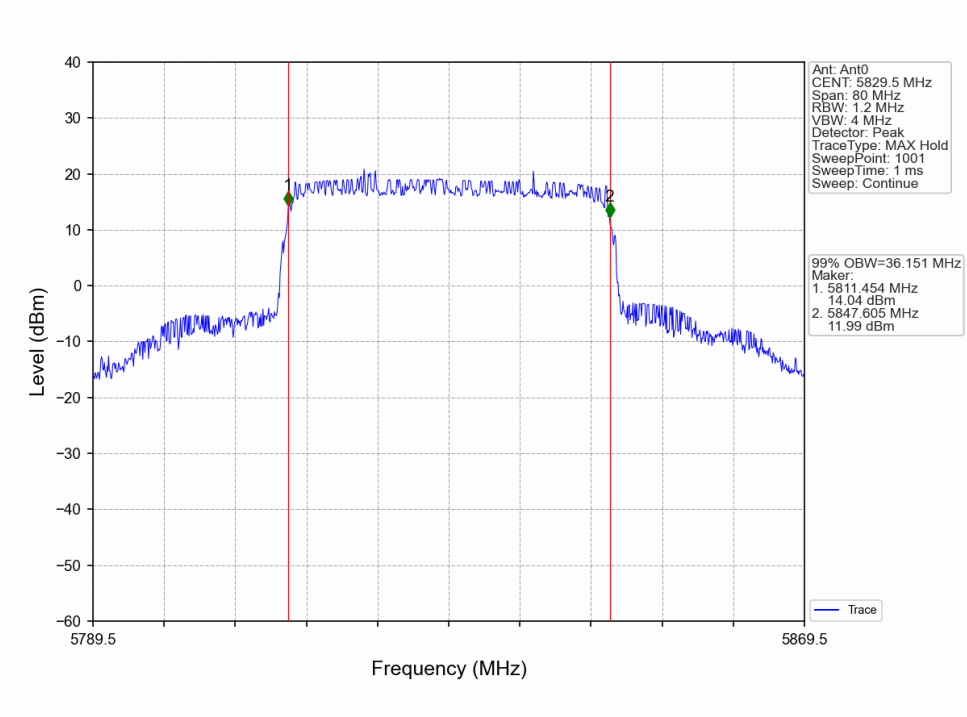
40M_HCH_5829.5MHz_Ant0_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	0	1.088	>=0.5	Pass
		5786.5	0	1.086	>=0.5	Pass
		5848.12	0	1.086	>=0.5	Pass
3M	MIMO	5727.5	0	2.189	>=0.5	Pass
		5784.5	0	2.185	>=0.5	Pass
		5847.2	0	2.192	>=0.5	Pass
10M	MIMO	5730.5	0	9.050	>=0.5	Pass
		5787.5	0	9.034	>=0.5	Pass
		5844.5	0	9.060	>=0.5	Pass
20M	MIMO	5735.5	0	18.035	>=0.5	Pass
		5787.5	0	18.004	>=0.5	Pass
		5839.5	0	18.012	>=0.5	Pass
40M	MIMO	5745.5	0	35.974	>=0.5	Pass
		5787.5	0	35.944	>=0.5	Pass
		5829.5	0	36.039	>=0.5	Pass

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