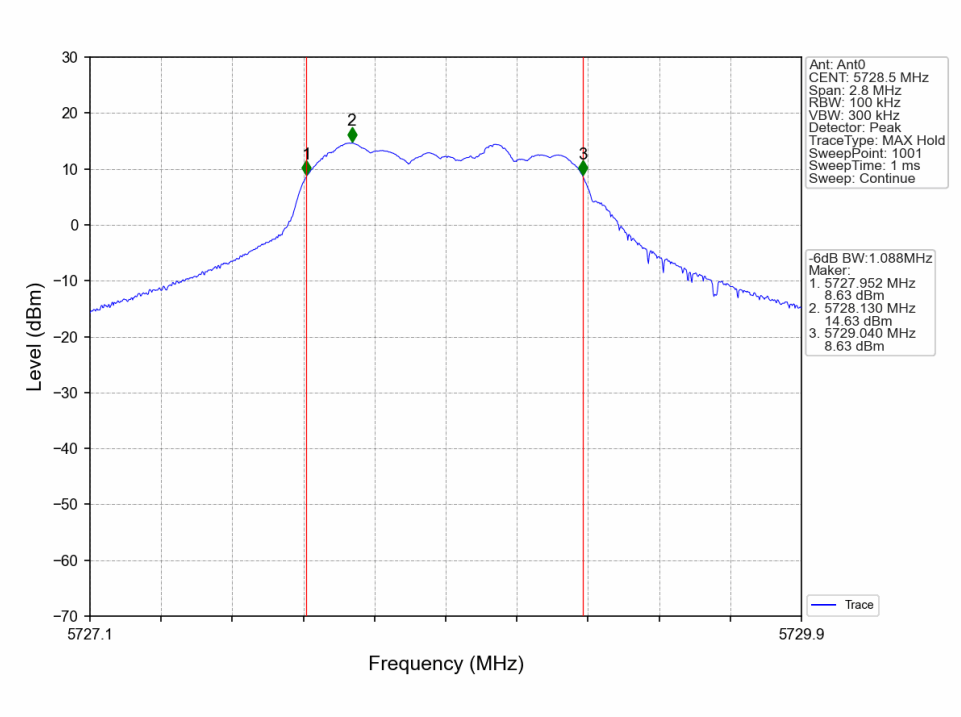
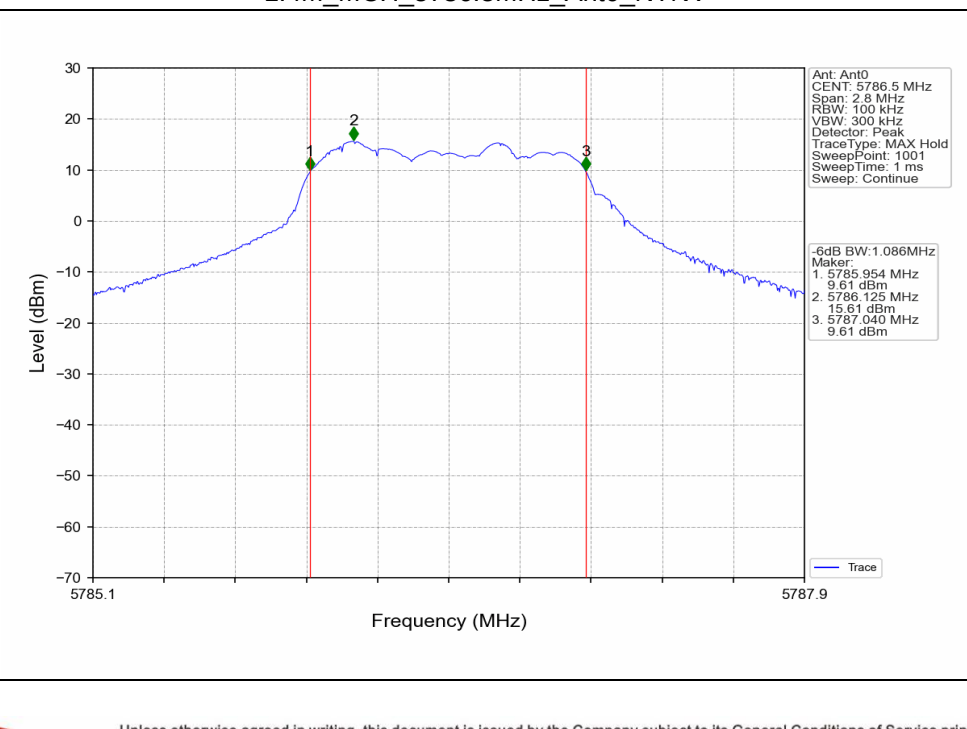
2.2.2 Test Graph

1.4M_LCH_5728.5MHz_Ant0_NTNV



1.4M_MCH_5786.5MHz_Ant0_NTNV



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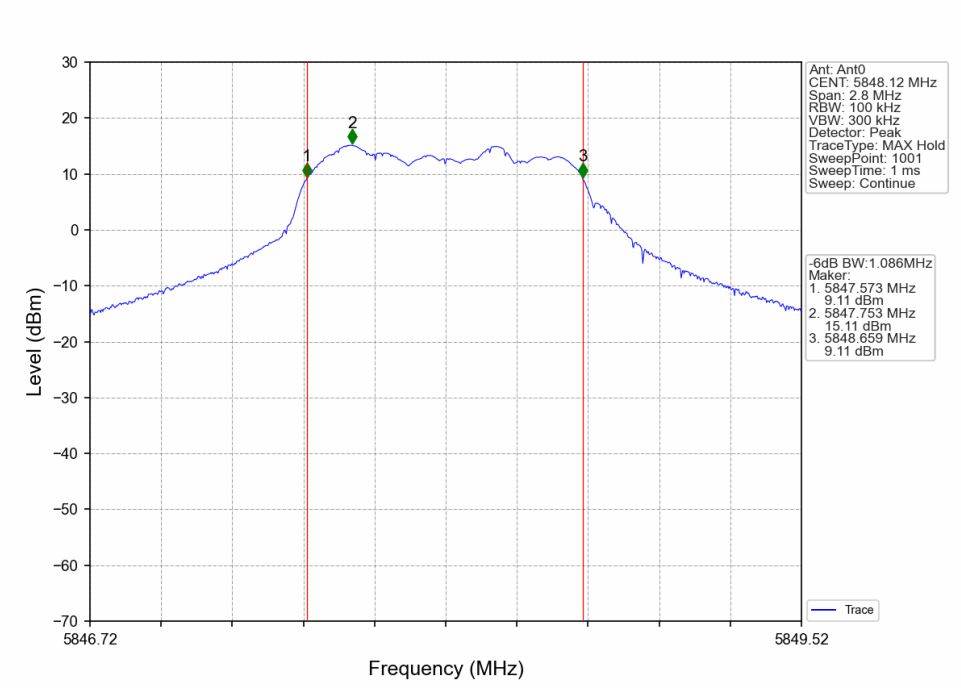
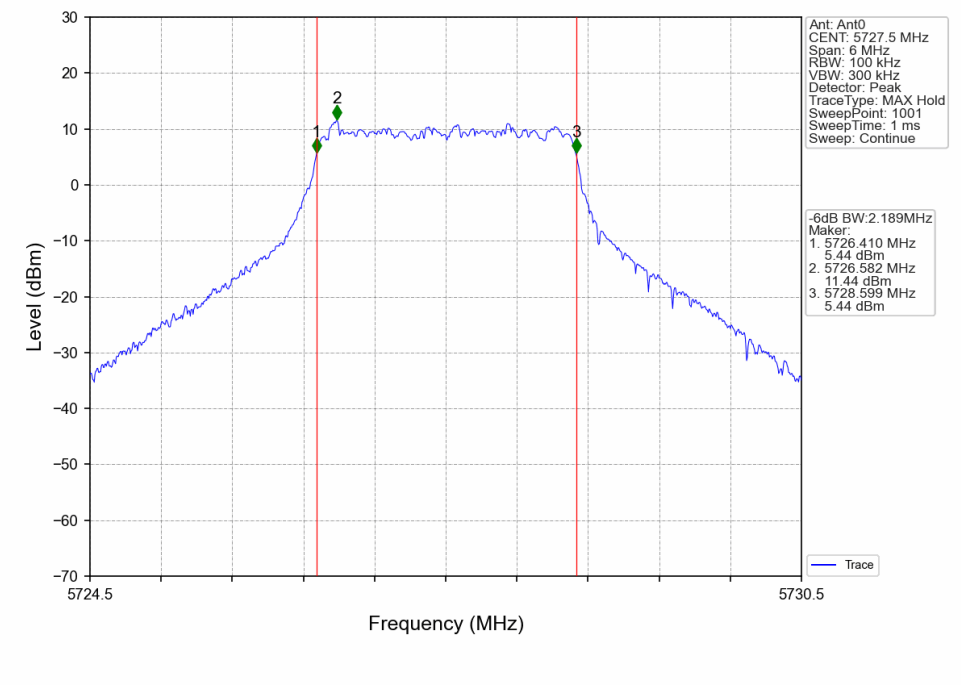
1.4M_HCH_5848.12MHz_Ant0_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



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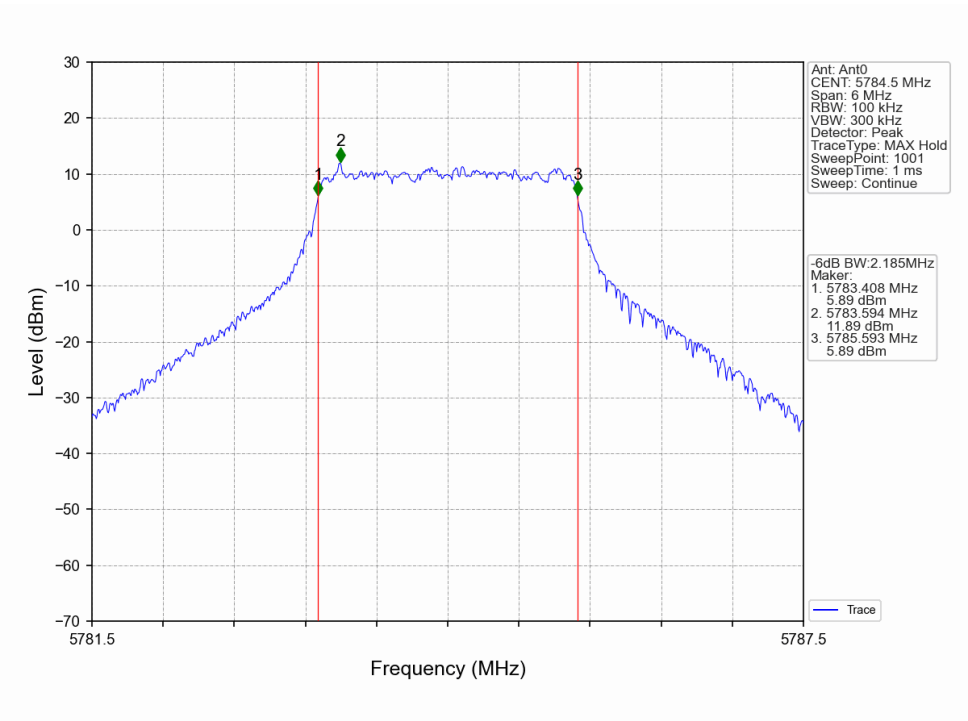
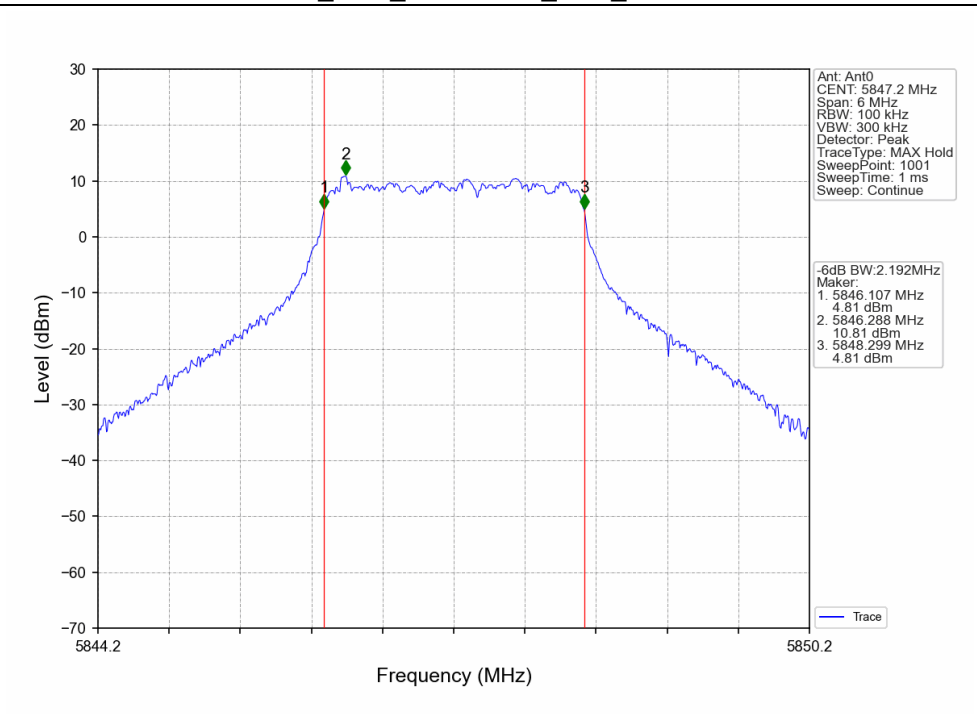
3M_MCH_5784.5MHz_Ant0_NTNV



3M_HCH_5847.2MHz_Ant0_NTNV



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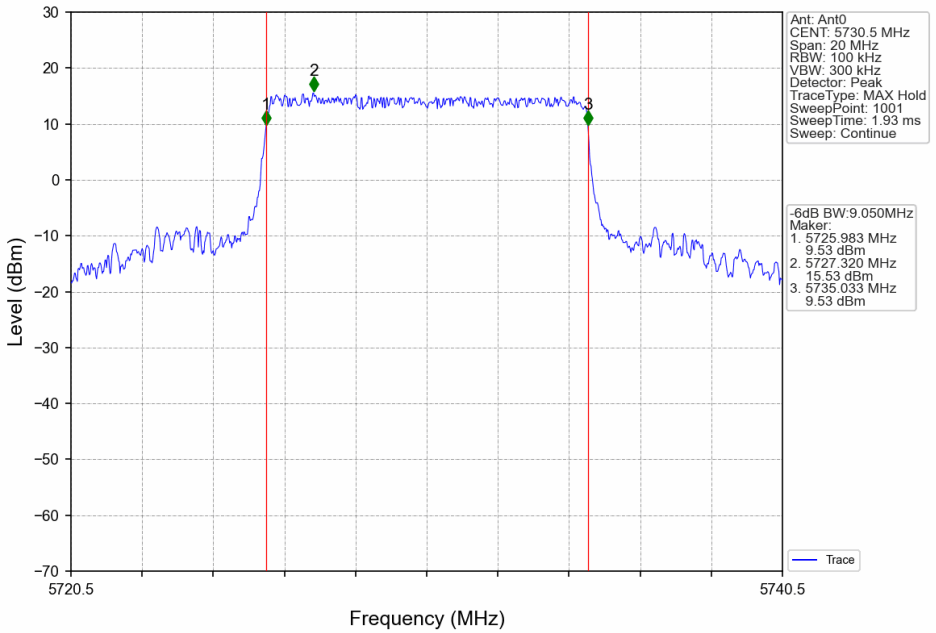
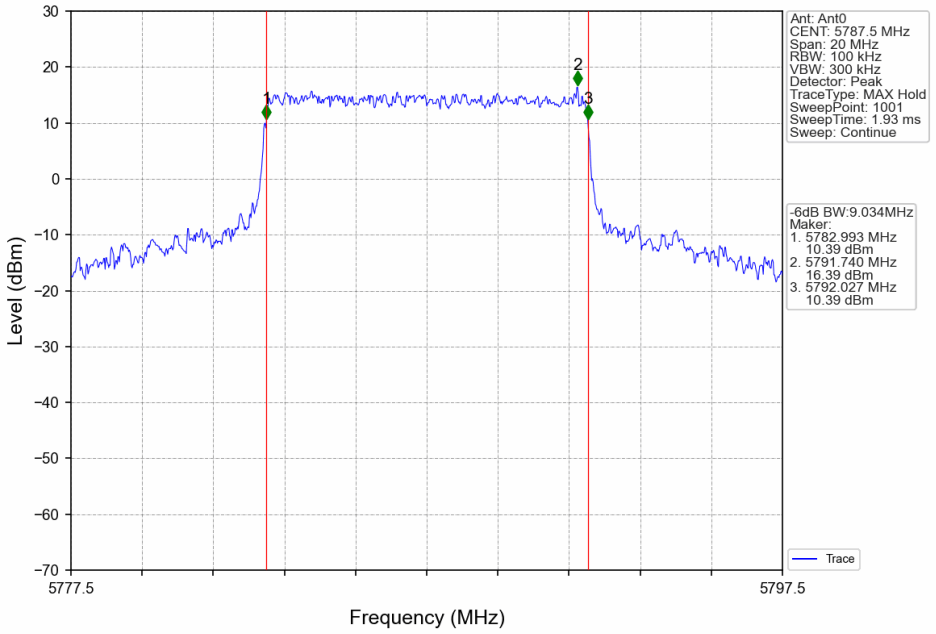
10M_LCH_5730.5MHz_Ant0_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



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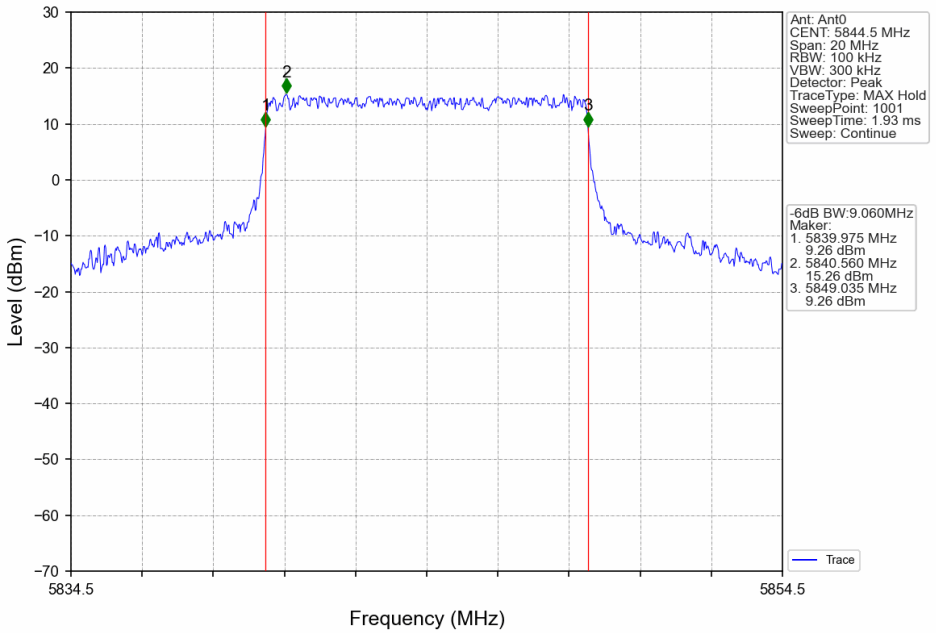
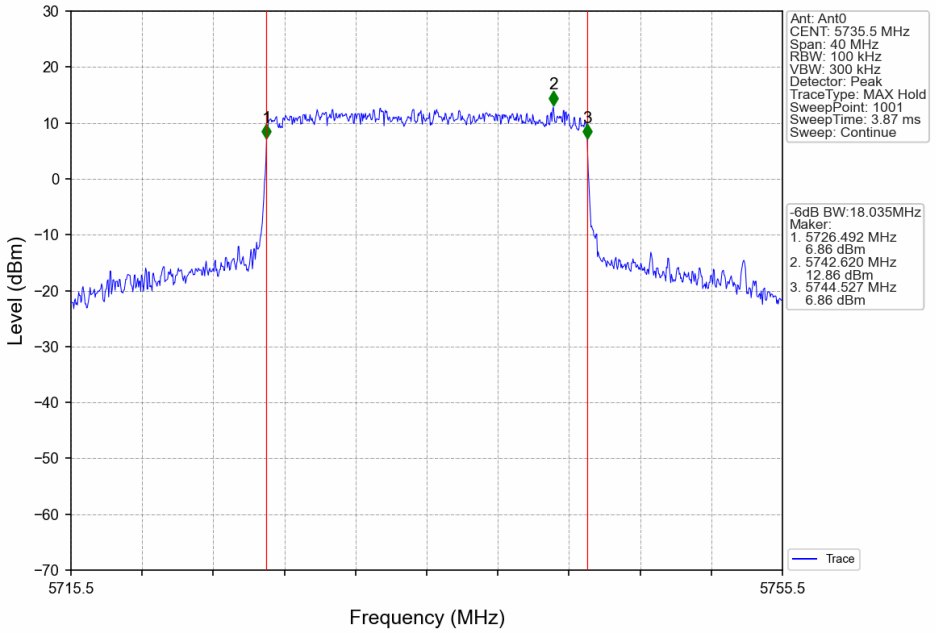
10M_HCH_5844.5MHz_Ant0_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



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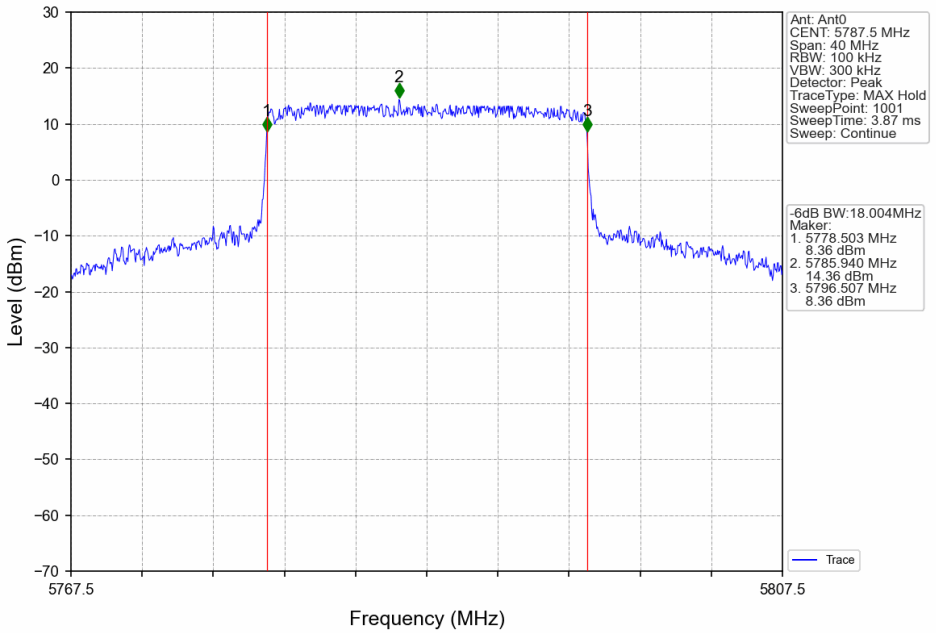
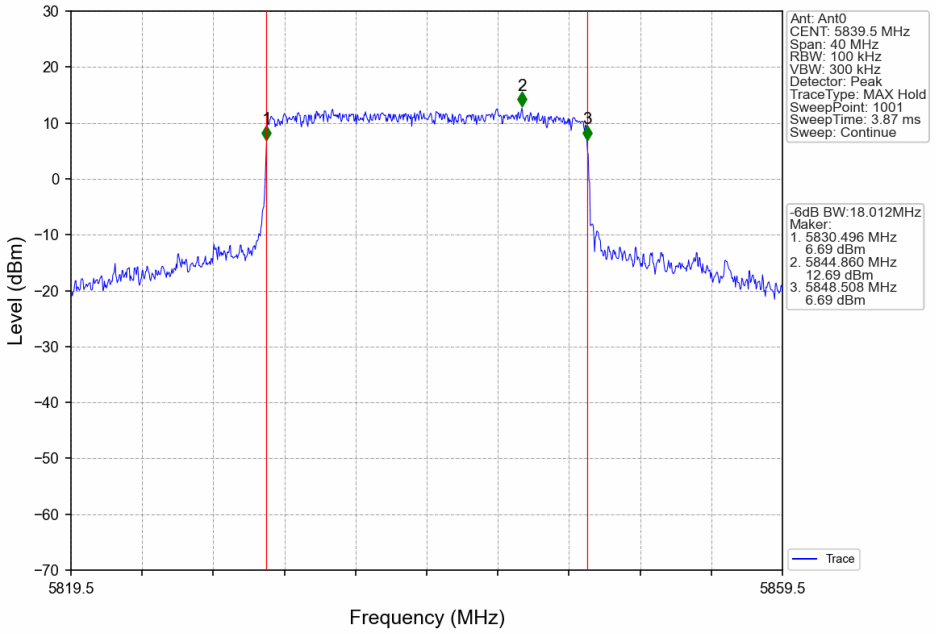
20M_MCH_5787.5MHz_Ant0_NTNV



20M_HCH_5839.5MHz_Ant0_NTNV



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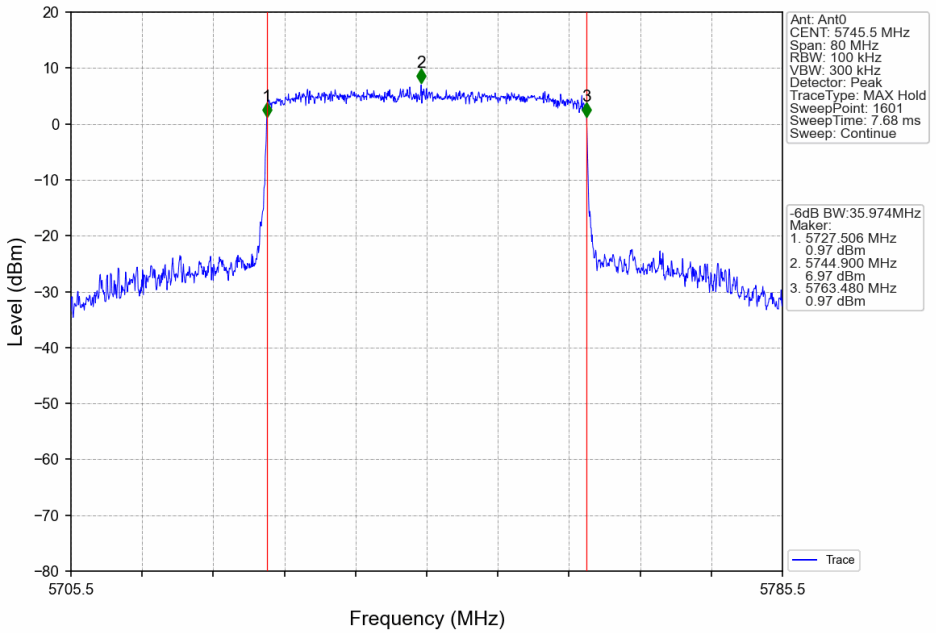
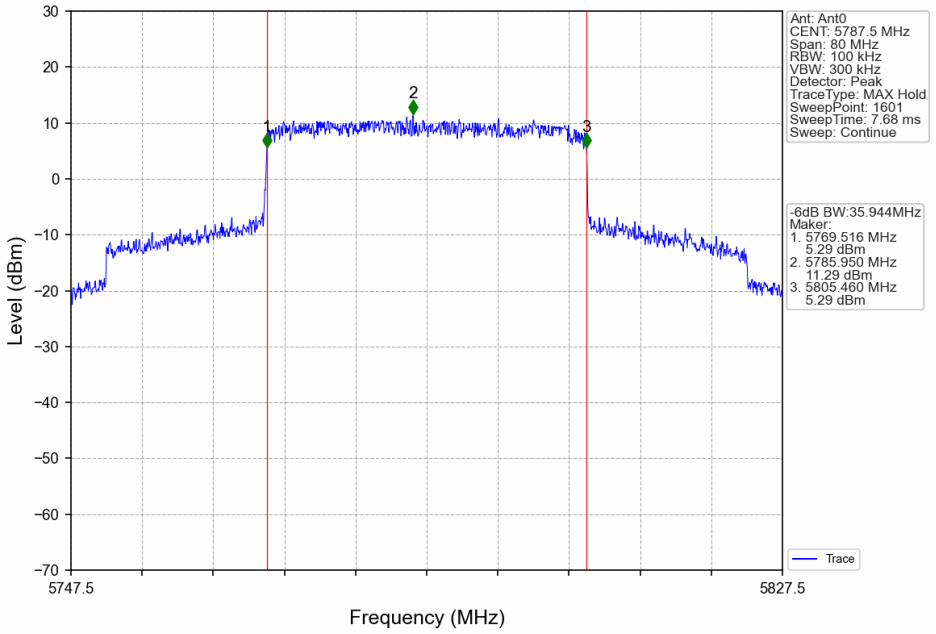
40M_LCH_5745.5MHz_Ant0_NTNV



40M_MCH_5787.5MHz_Ant0_NTNV



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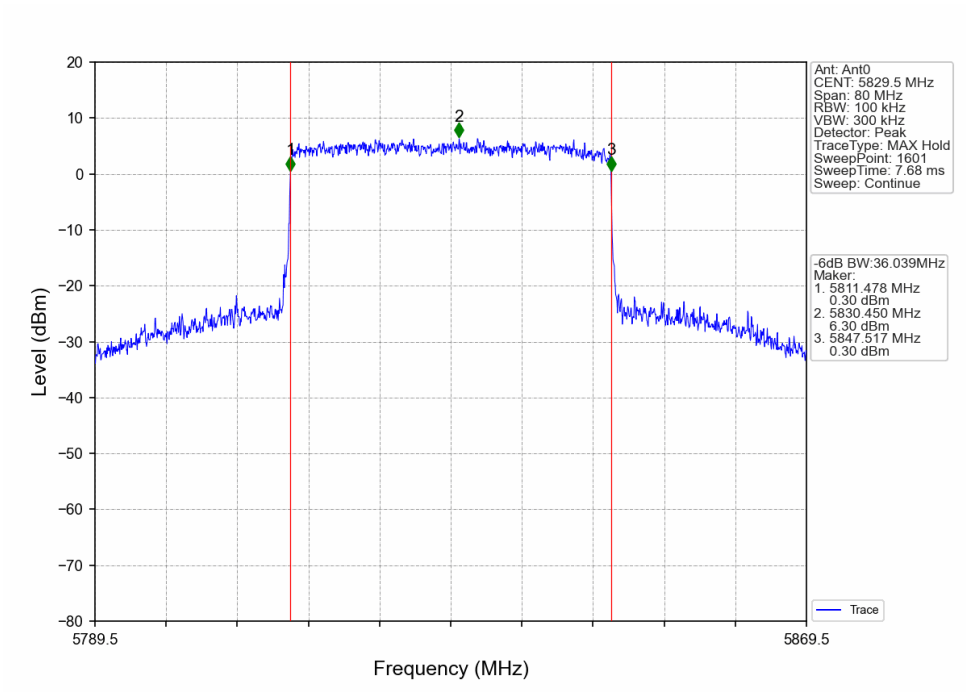
40M_HCH_5829.5MHz_Ant0_NTNV



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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	ANT3	MIMO	Limit	
1.4M	MIMO	5728.5	13.98	13.04	16.55	<=30	Pass
		5786.5	14.86	14.61	17.75	<=30	Pass
		5848.12	14.47	15.21	17.87	<=30	Pass
3M	MIMO	5727.5	14.50	13.62	17.09	<=30	Pass
		5784.5	15.21	15.54	18.39	<=30	Pass
		5847.2	14.15	14.22	17.20	<=30	Pass
10M	MIMO	5730.5	24.74	23.98	27.39	<=30	Pass
		5787.5	24.81	24.68	27.76	<=30	Pass
		5844.5	24.69	24.79	27.75	<=30	Pass
20M	MIMO	5735.5	24.75	24.30	27.54	<=30	Pass
		5787.5	25.99	25.76	28.89	<=30	Pass
		5839.5	24.73	24.91	27.83	<=30	Pass
40M	MIMO	5745.5	24.98	24.64	27.82	<=30	Pass
		5787.5	25.51	25.23	28.38	<=30	Pass
		5829.5	25.19	25.17	28.19	<=30	Pass

Note1: Antenna Gain: Ant0: 3.00dBi; Ant3: 3.00dBi;

Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=3dBi

Array Gain = 0 dB for $N_{ANT} \leqslant 4$

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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	ANT3	MIMO	Limit	
1.4M	MIMO	5728.5	12.91	12.01	15.35	<=29.99	Pass
		5786.5	13.72	13.63	16.54	<=29.99	Pass
		5848.12	13.42	14.00	16.60	<=29.99	Pass
3M	MIMO	5727.5	9.76	8.77	12.14	<=29.99	Pass
		5784.5	10.63	10.71	13.48	<=29.99	Pass
		5847.2	9.50	9.16	12.18	<=29.99	Pass
10M	MIMO	5730.5	13.12	12.53	15.59	<=29.99	Pass
		5787.5	13.13	13.07	15.97	<=29.99	Pass
		5844.5	13.15	13.08	16.01	<=29.99	Pass
20M	MIMO	5735.5	10.25	9.74	12.75	<=29.99	Pass
		5787.5	11.49	11.15	14.16	<=29.99	Pass
		5839.5	10.21	10.52	13.15	<=29.99	Pass
40M	MIMO	5745.5	7.49	7.22	10.29	<=29.99	Pass
		5787.5	7.80	7.60	10.56	<=29.99	Pass
		5829.5	7.95	7.92	10.90	<=29.99	Pass

Note1: Antenna Gain: Ant0: 3.00dBi; Ant3: 3.00dBi;
Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=6.01dBi
Array gain = 10 log(N_{ANT}), where N_{ANT} is the number of transmit antennas

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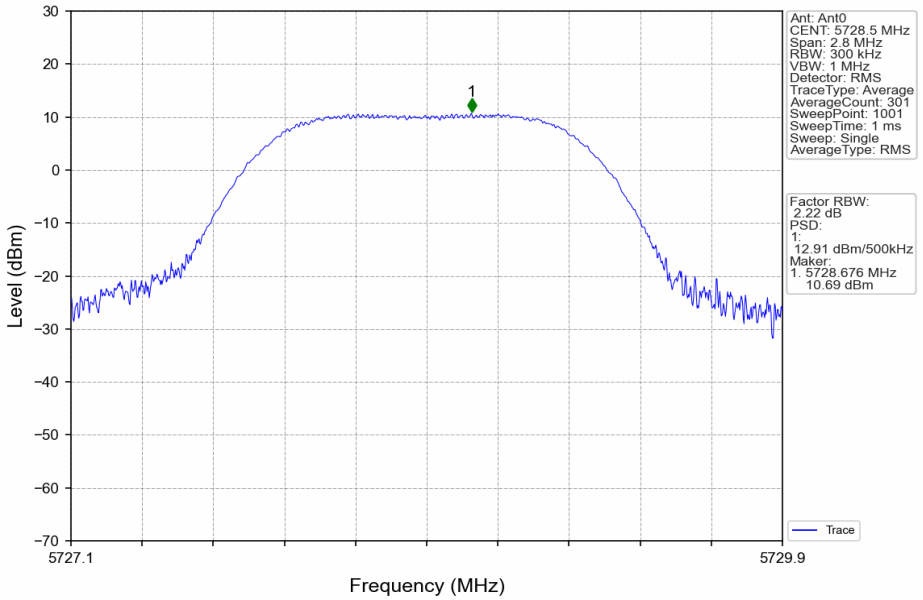
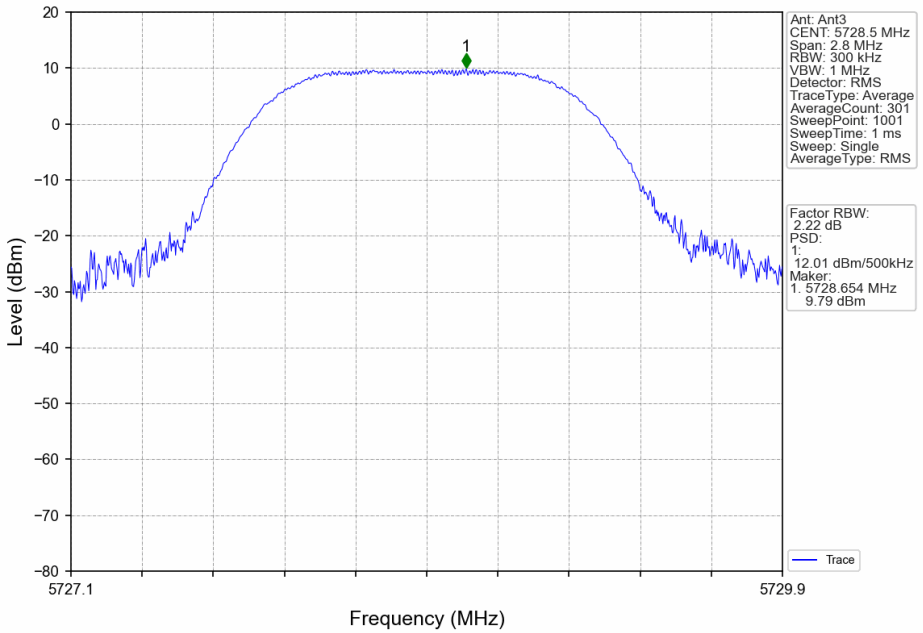
4.1.2 Test Graph

1.4M_LCH_5728.5MHz_Ant0_NTNV



1.4M_LCH_5728.5MHz_Ant3_NTNV



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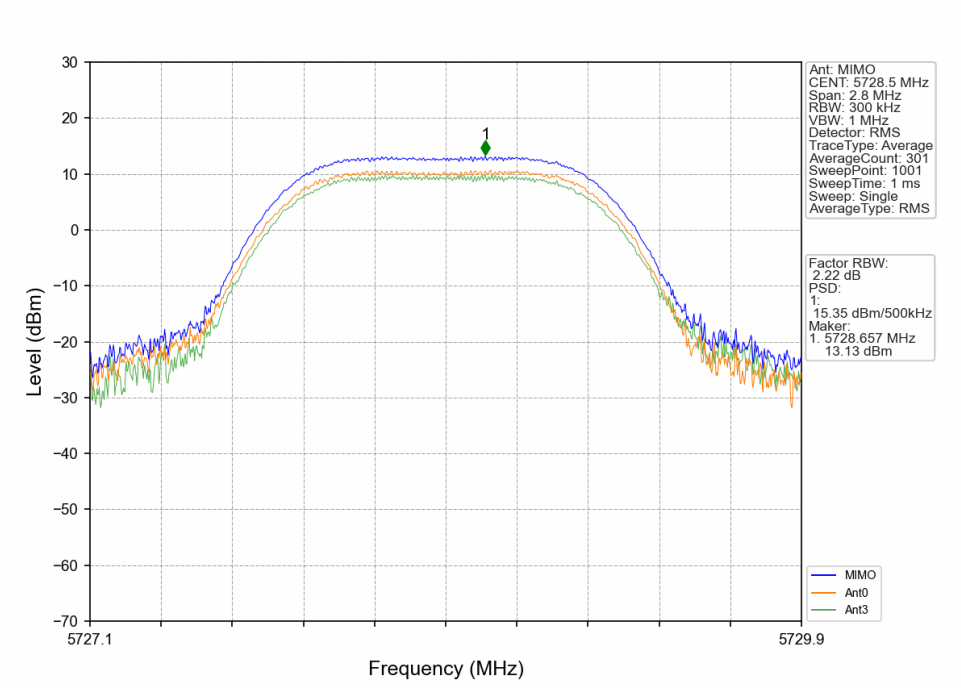
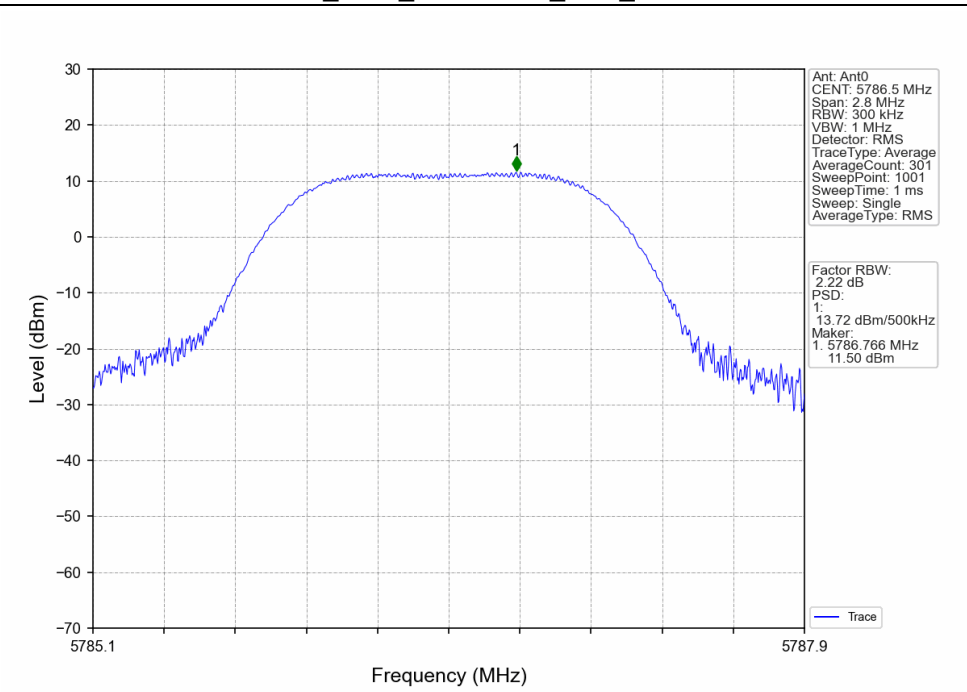
1.4M_LCH_5728.5MHz_MIMO_NTNV



1.4M_MCH_5786.5MHz_Ant0_NTNV



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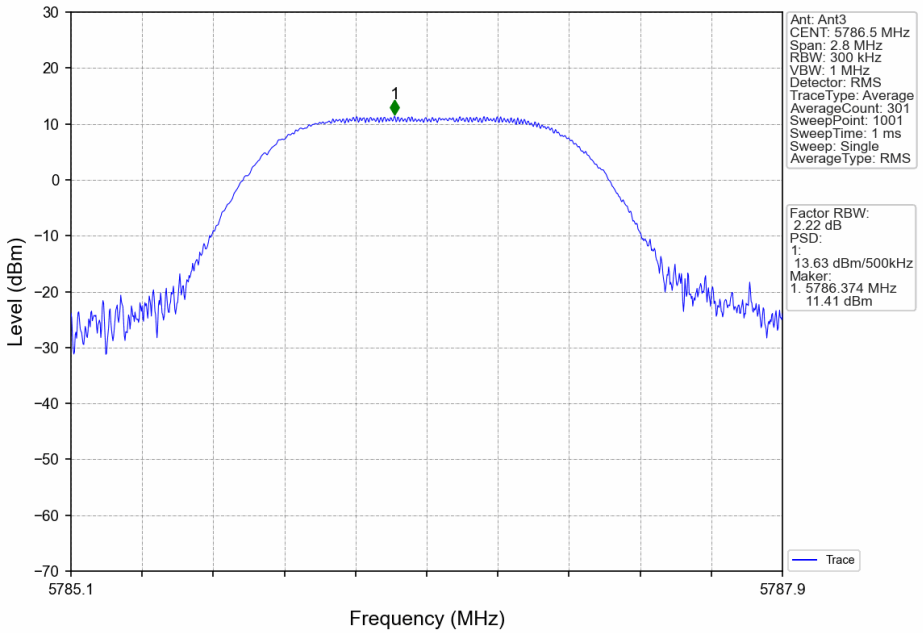
1.4M_MCH_5786.5MHz_Ant3_NTNV



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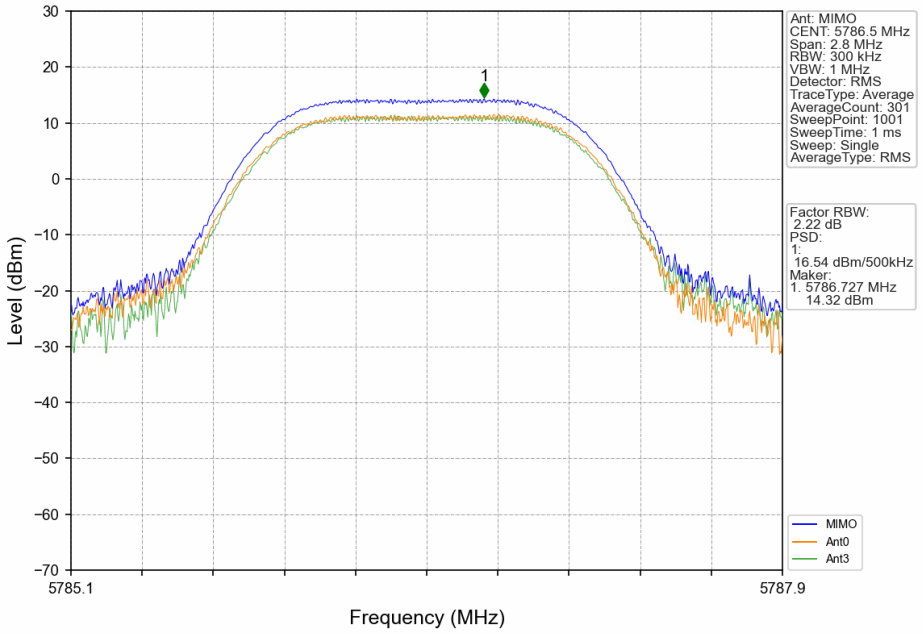

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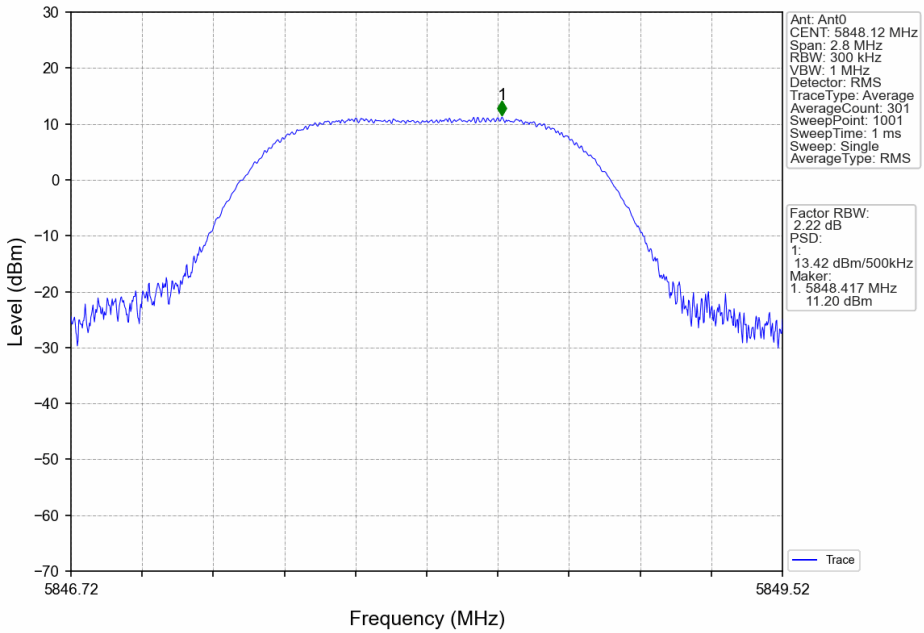
1.4M_HCH_5848.12MHz_Ant0_NTNV



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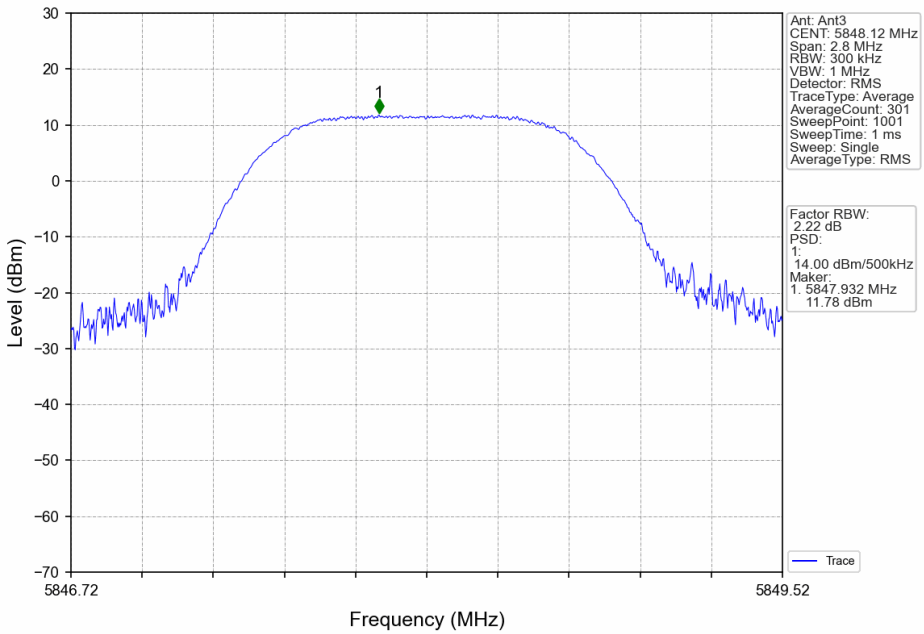

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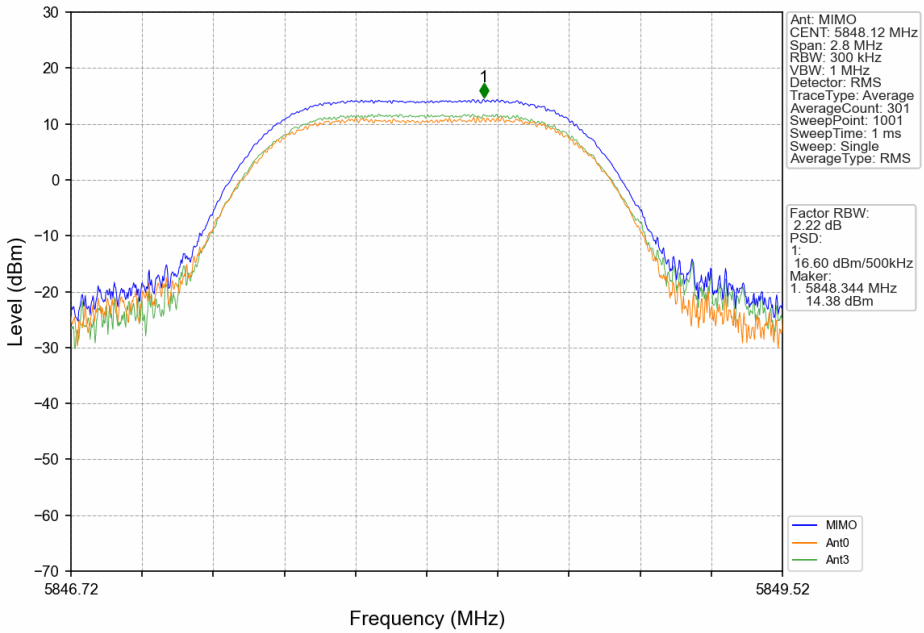
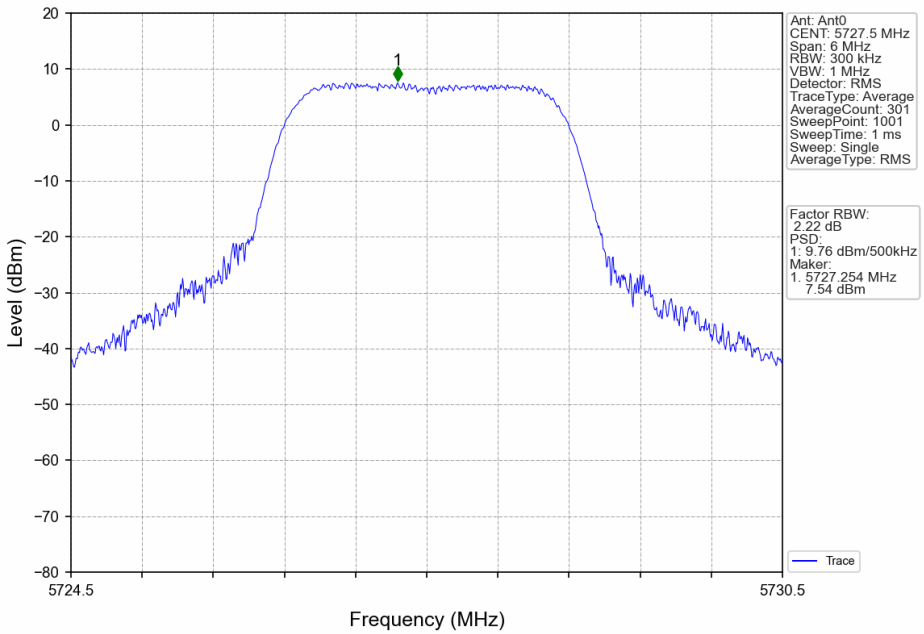
1.4M_HCH_5848.12MHz_MIMO_NTNV



3M_LCH_5727.5MHz_Ant0_NTNV



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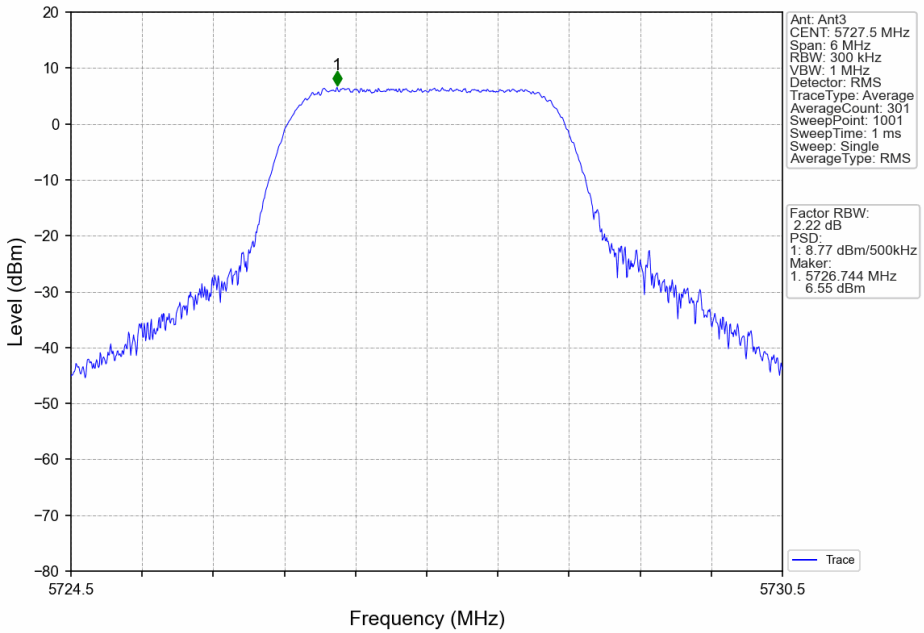
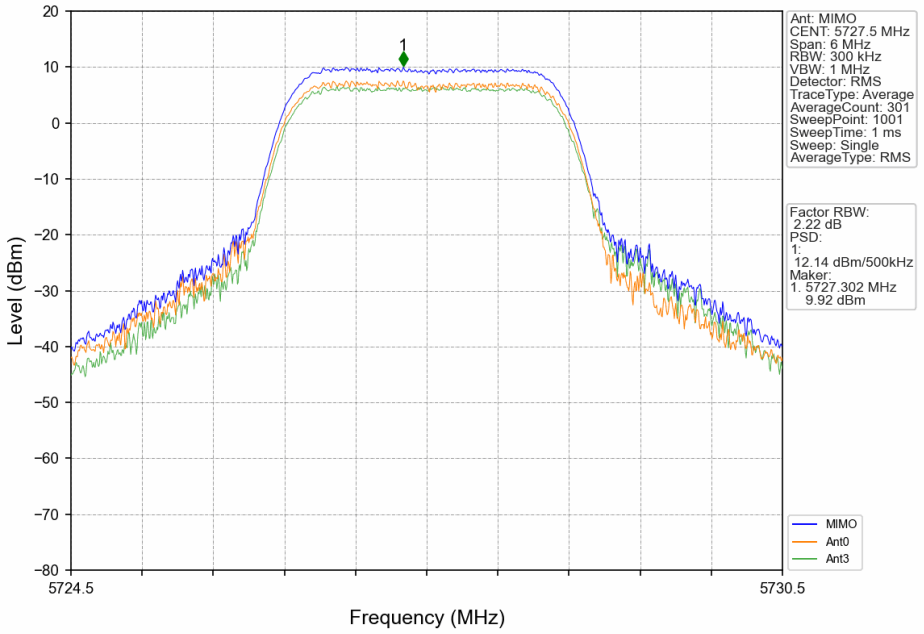
3M_LCH_5727.5MHz_Ant3_NTNV



3M_LCH_5727.5MHz_MIMO_NTNV



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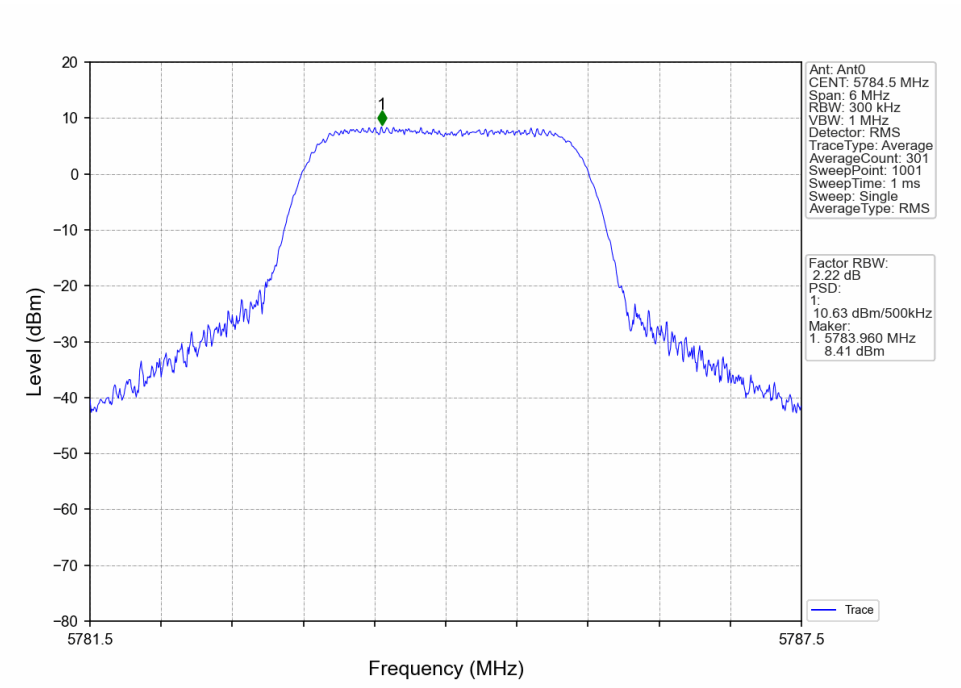
3M_MCH_5784.5MHz_Ant0_NTNV



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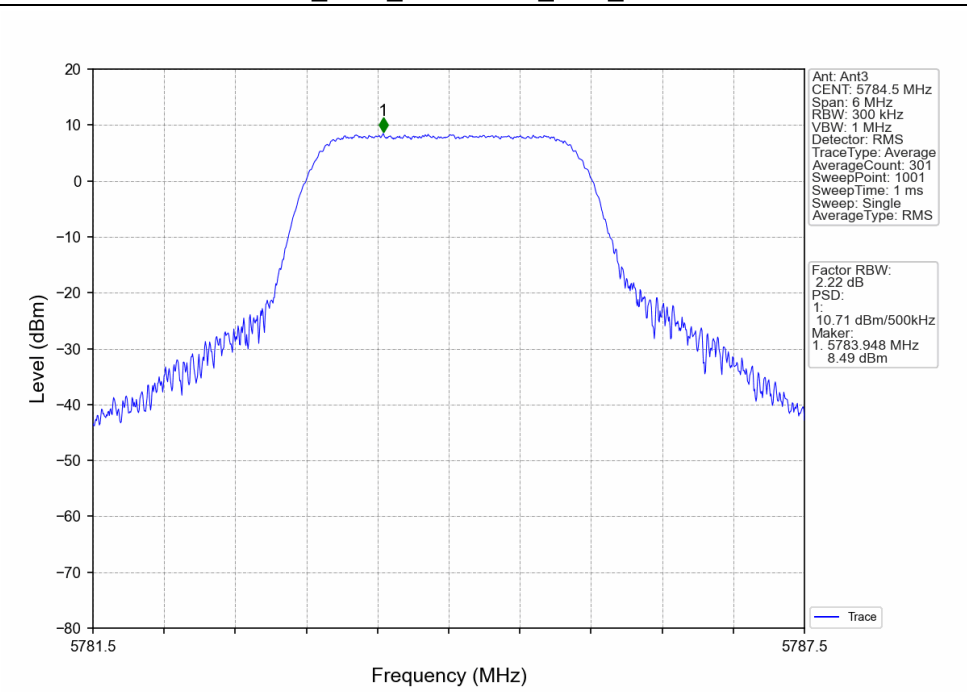

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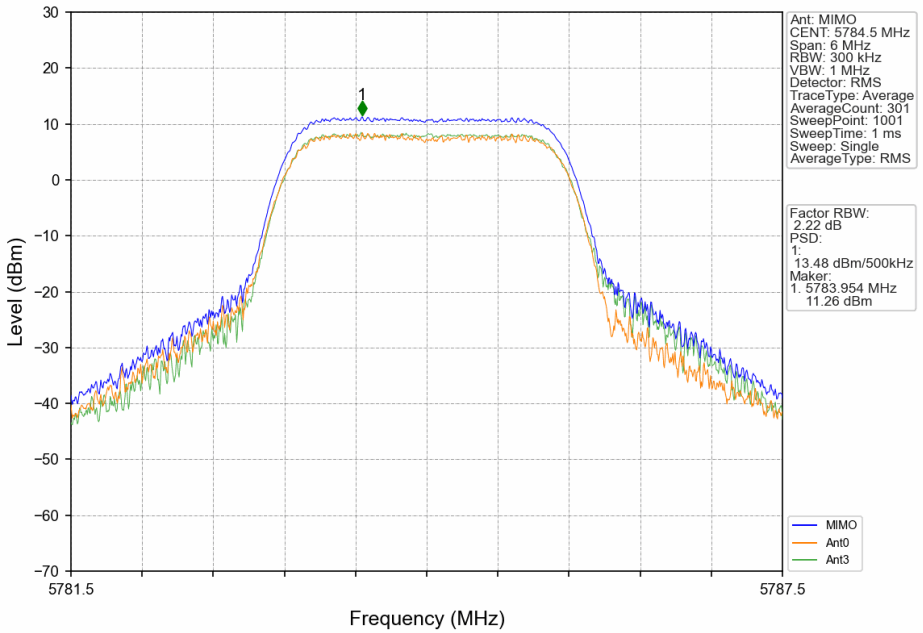
3M_MCH_5784.5MHz_MIMO_NTNV



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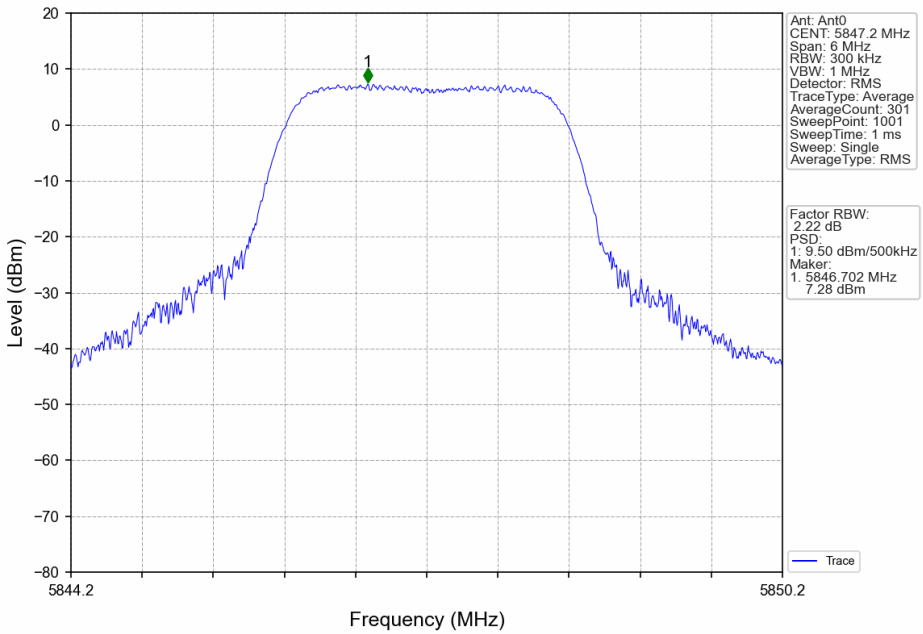

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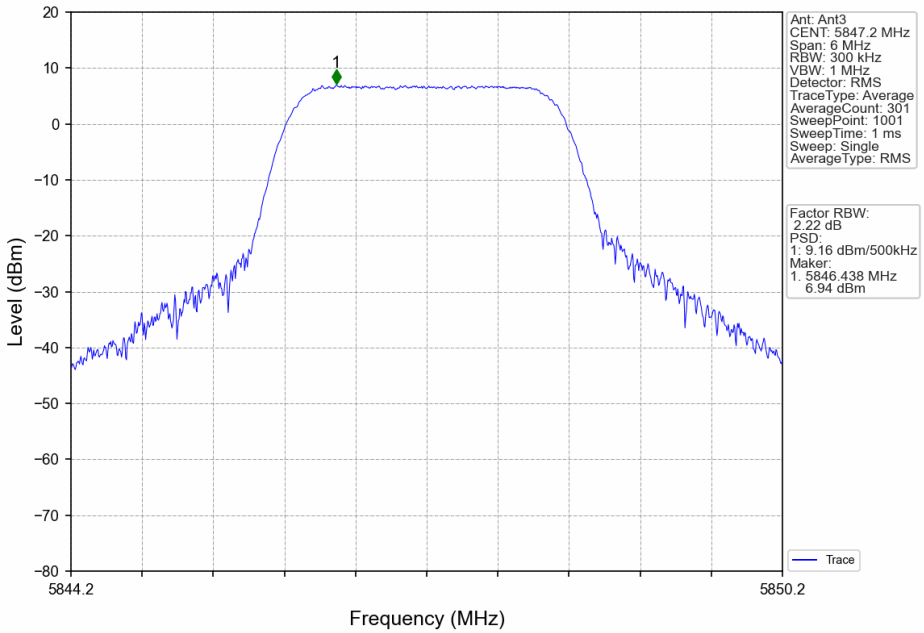
3M_HCH_5847.2MHz_Ant3_NTNV



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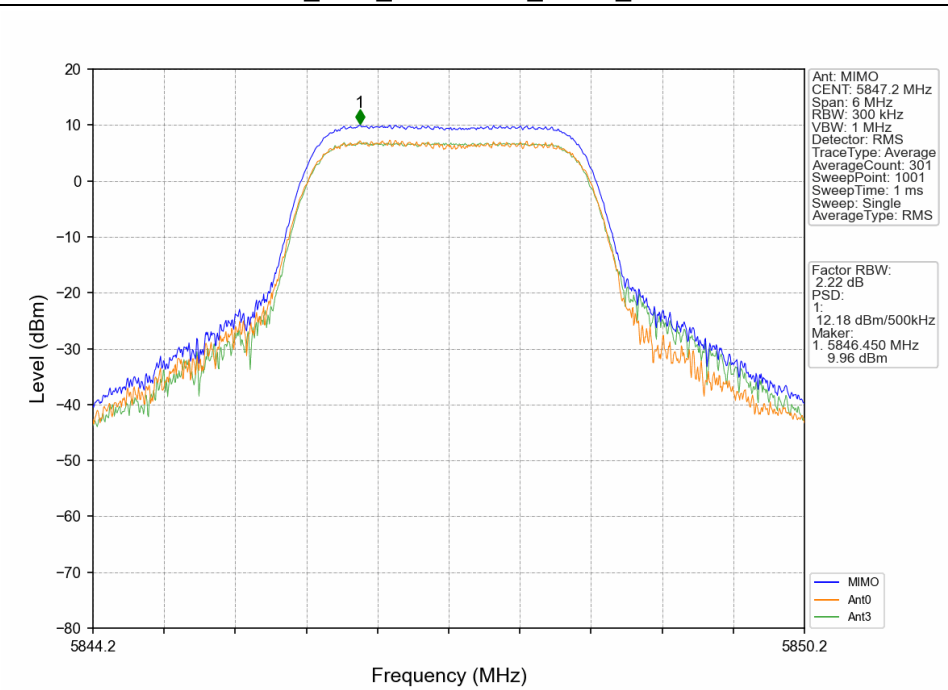

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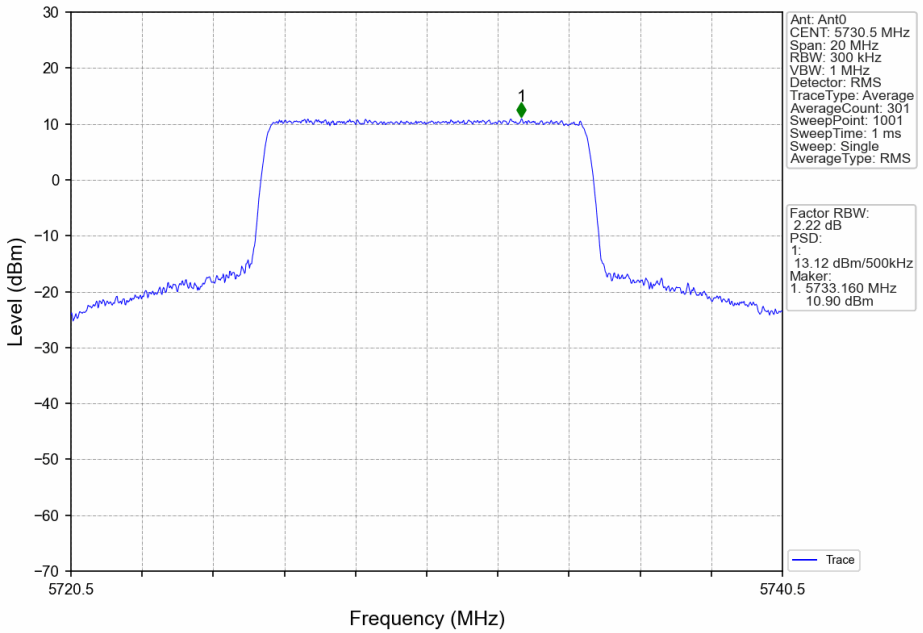
10M_LCH_5730.5MHz_Ant0_NTNV



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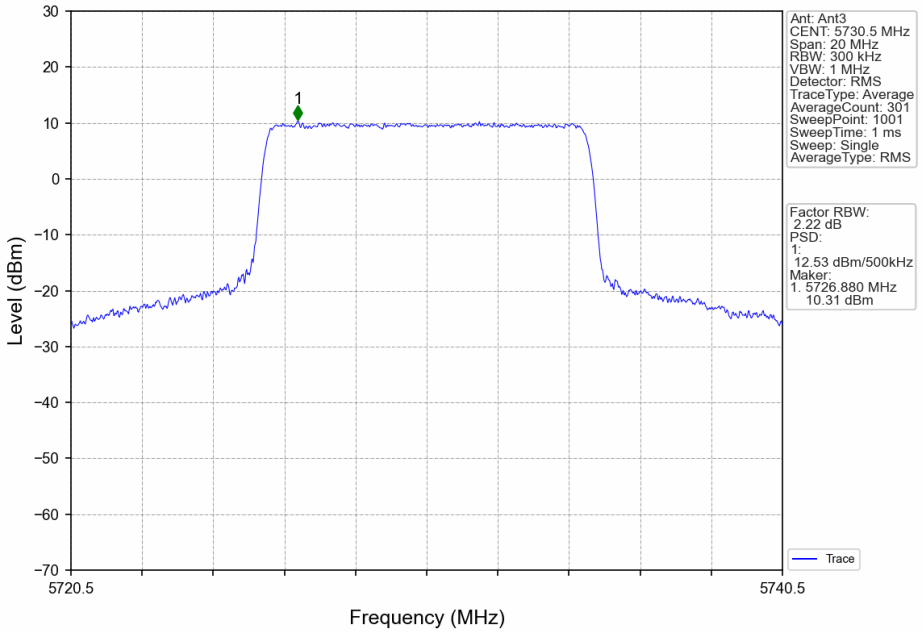

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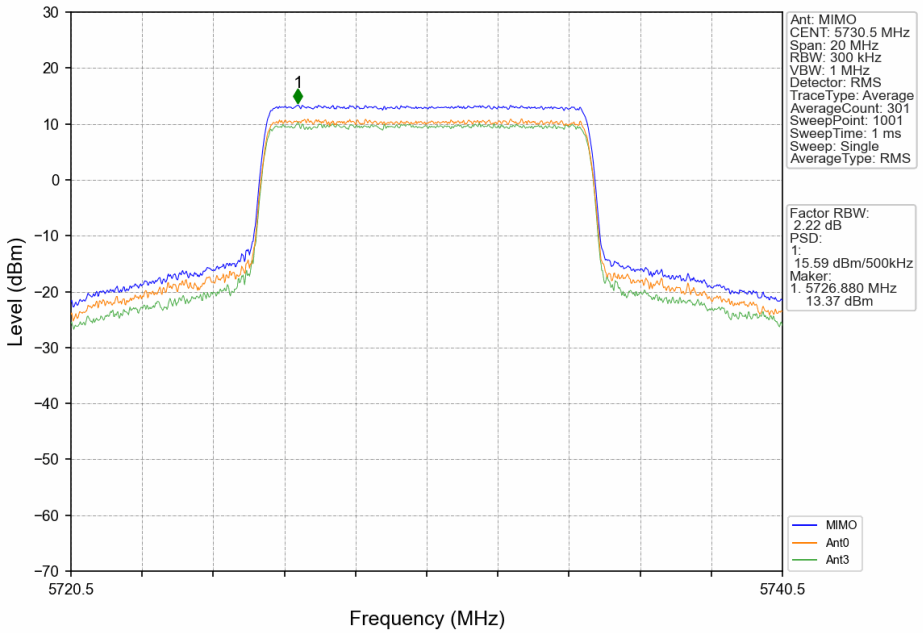
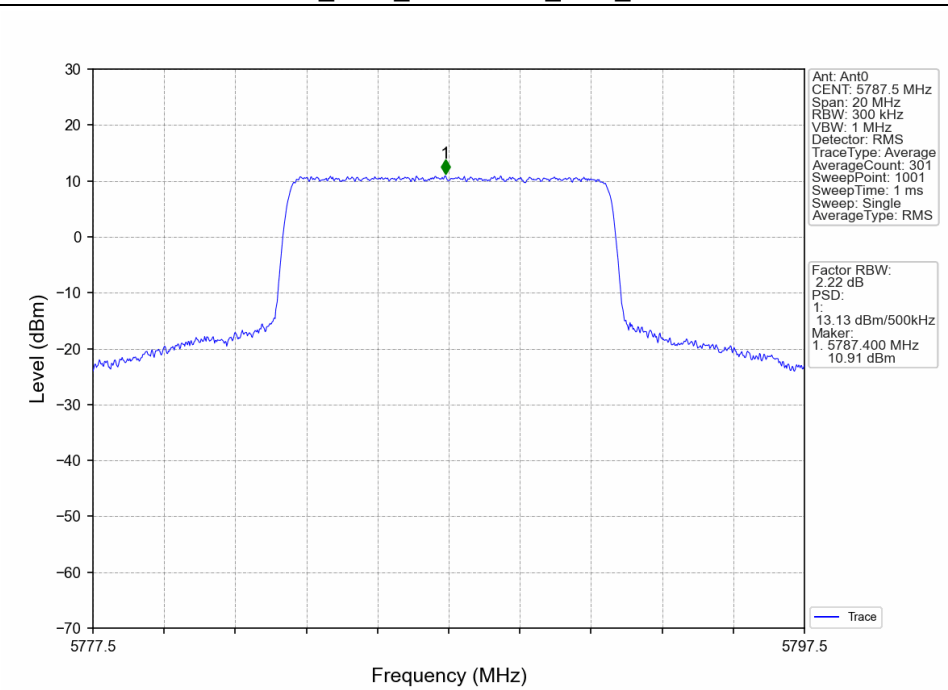
10M_LCH_5730.5MHz_MIMO_NTNV



10M_MCH_5787.5MHz_Ant0_NTNV



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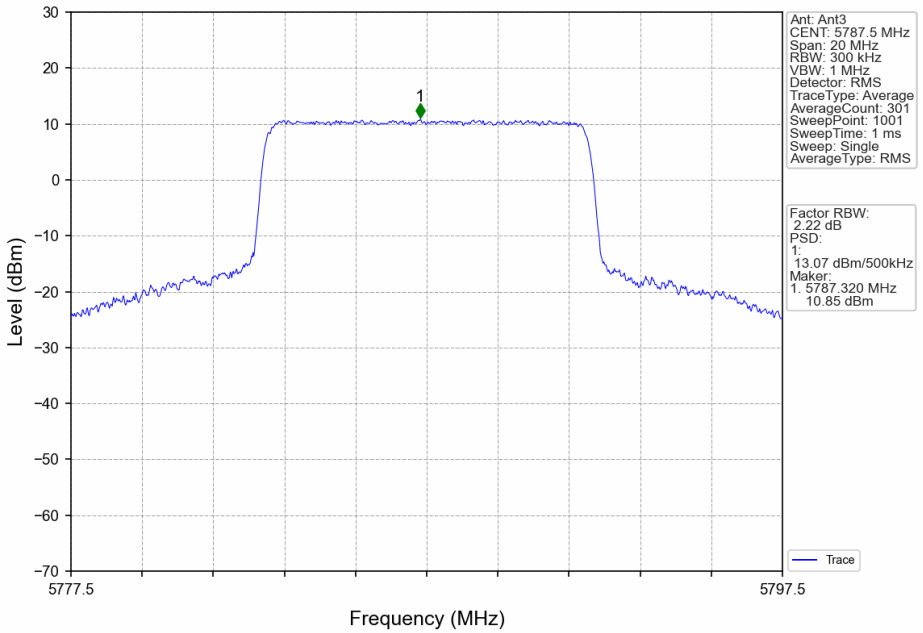
10M_MCH_5787.5MHz_Ant3_NTNV



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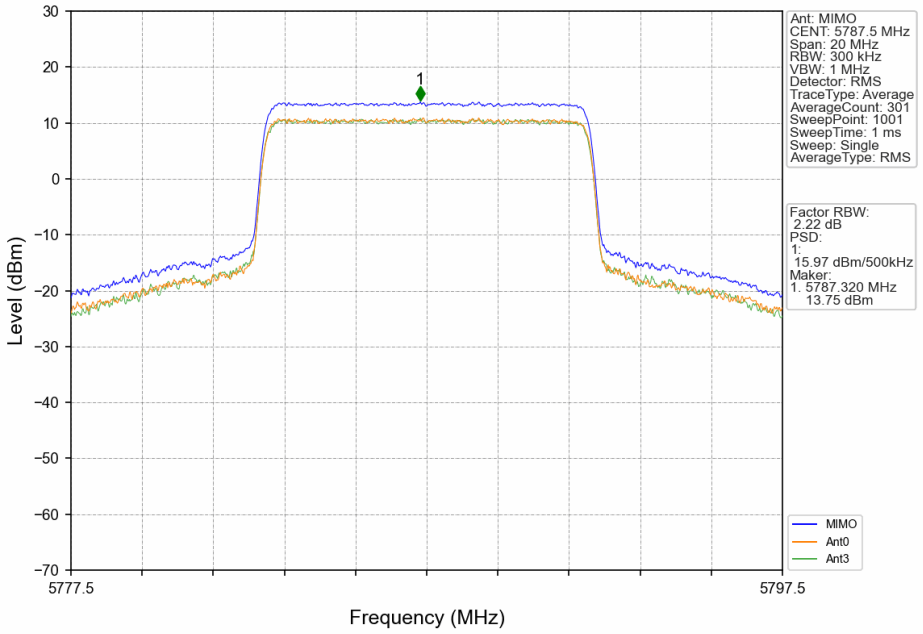

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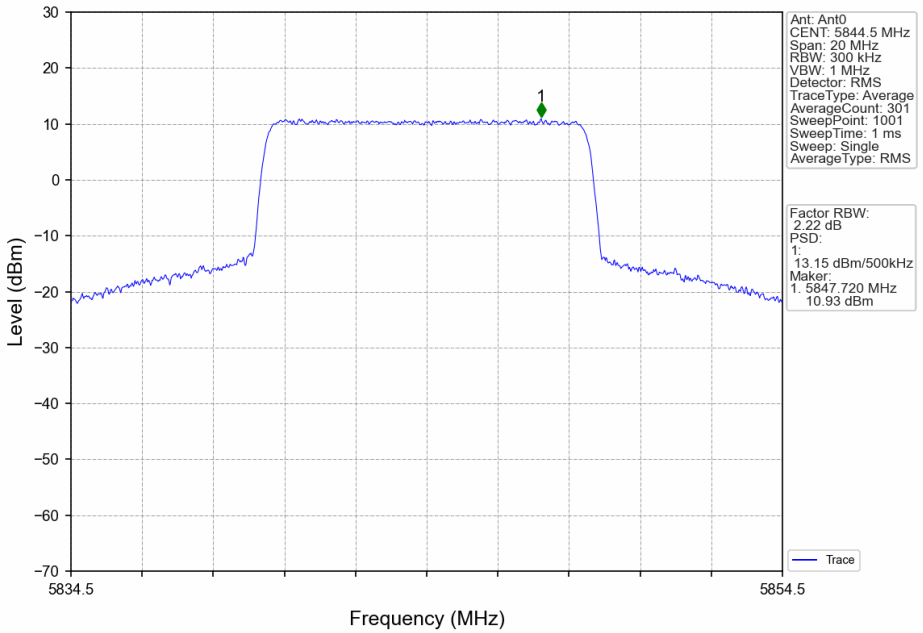
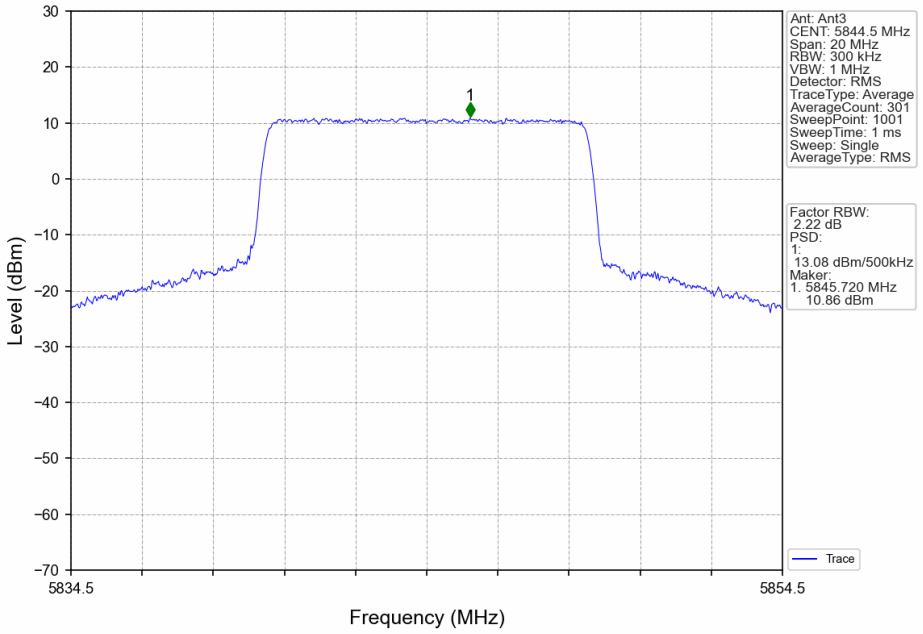
10M_HCH_5844.5MHz_Ant0_NTNV



10M_HCH_5844.5MHz_Ant3_NTNV



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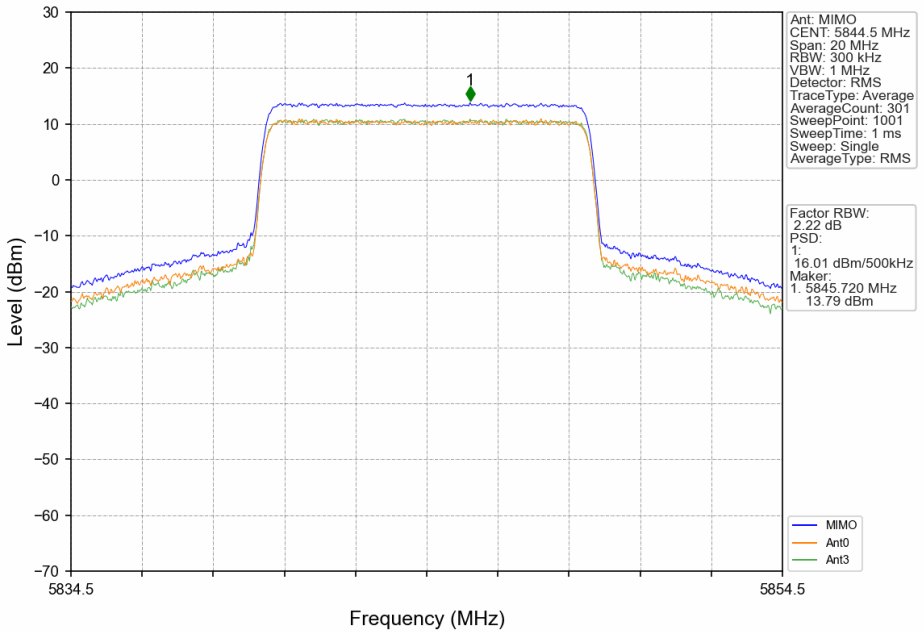
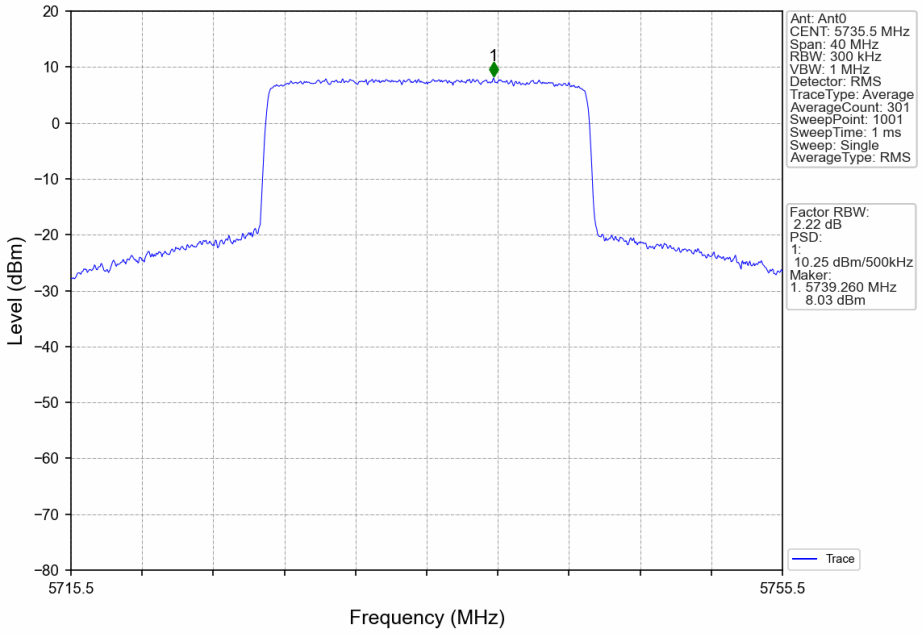
10M_HCH_5844.5MHz_MIMO_NTNV



20M_LCH_5735.5MHz_Ant0_NTNV



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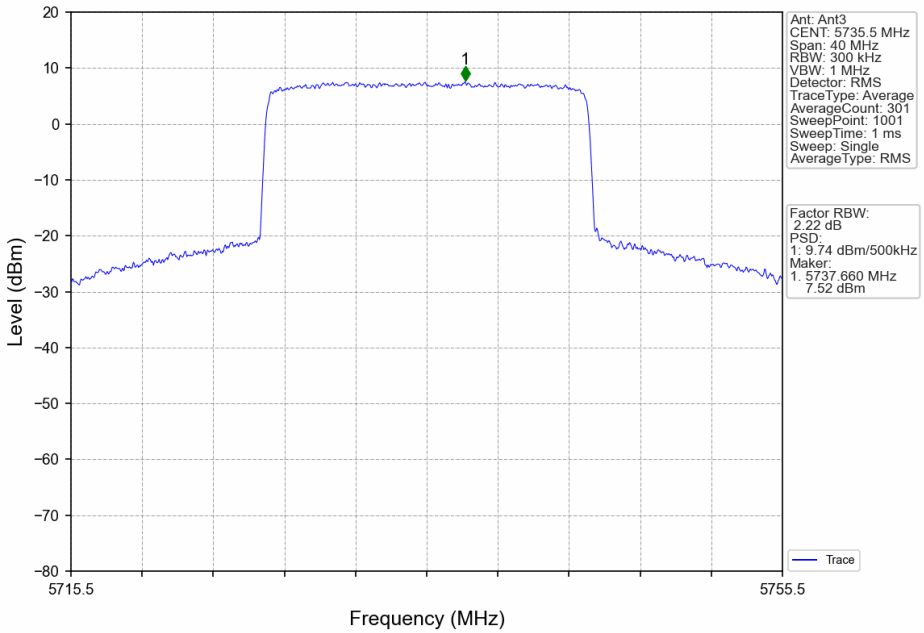
20M_LCH_5735.5MHz_Ant3_NTNV



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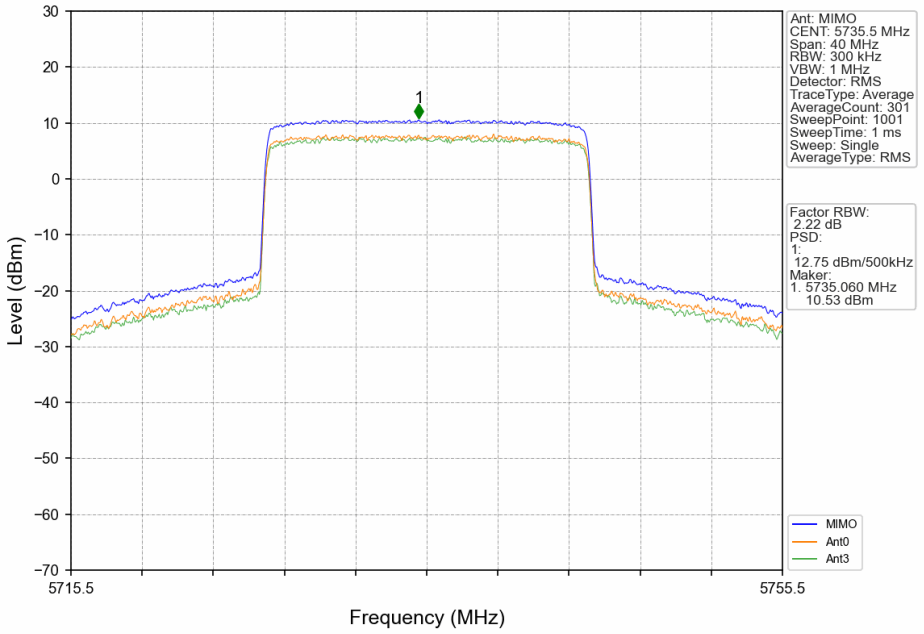

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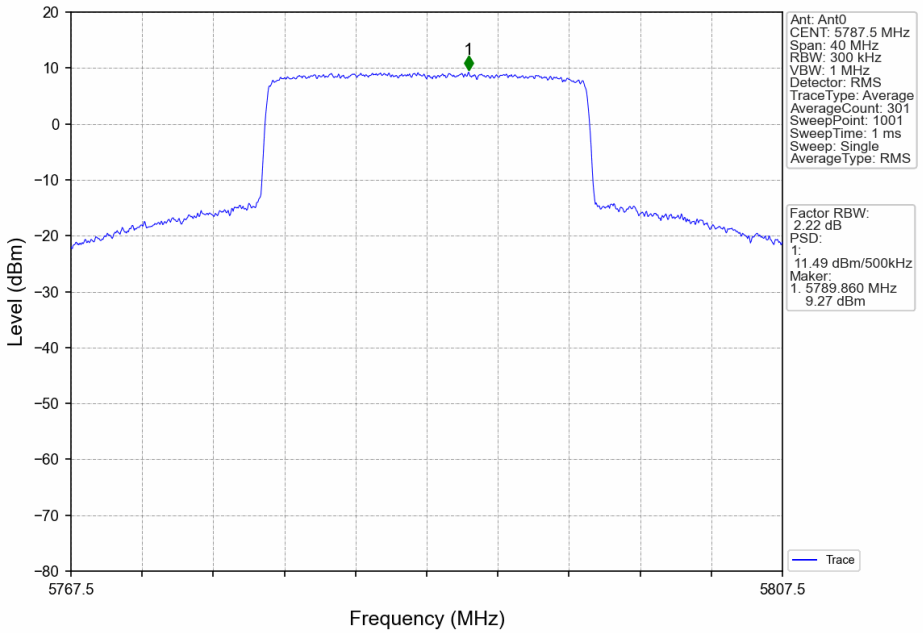
20M_MCH_5787.5MHz_Ant0_NTNV



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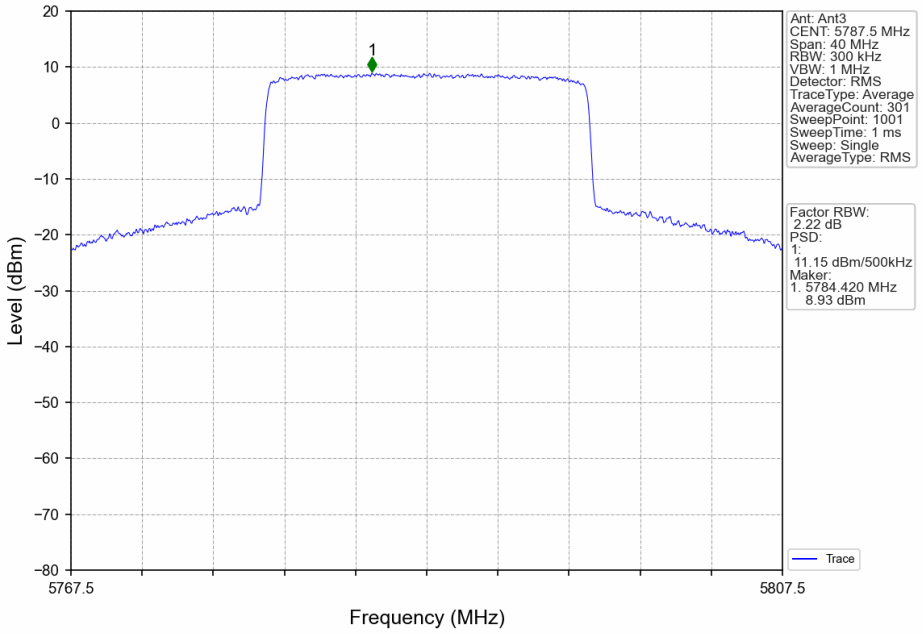

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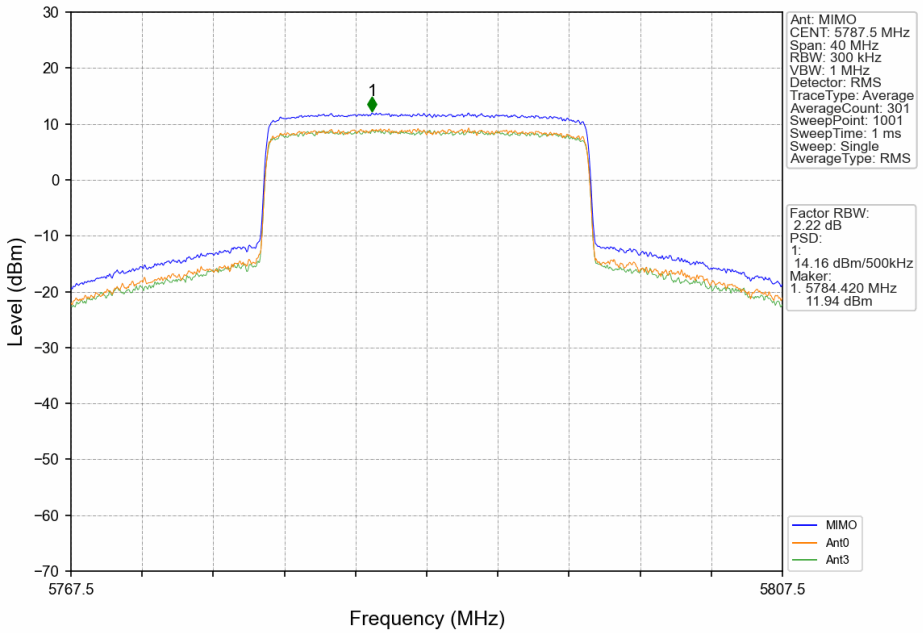

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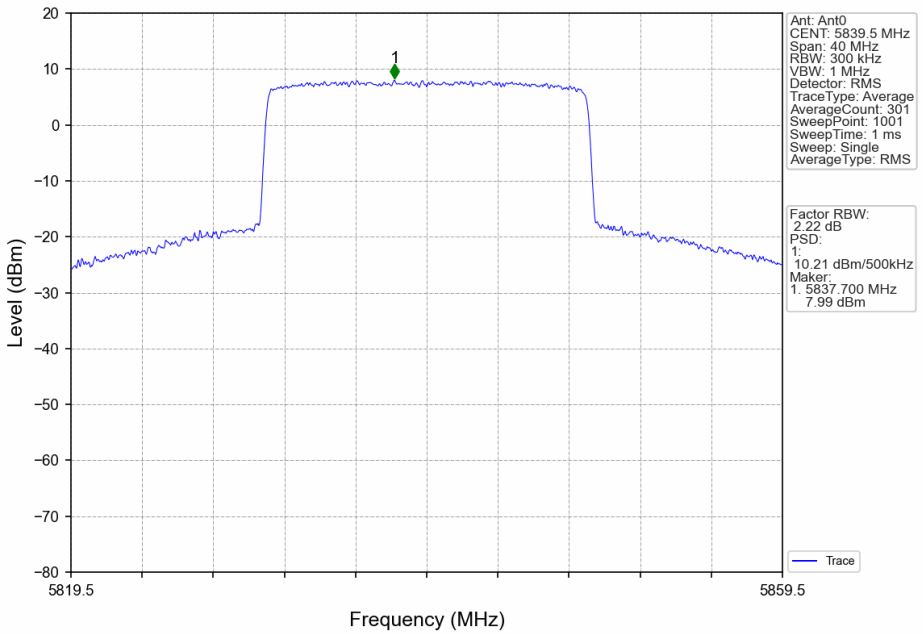

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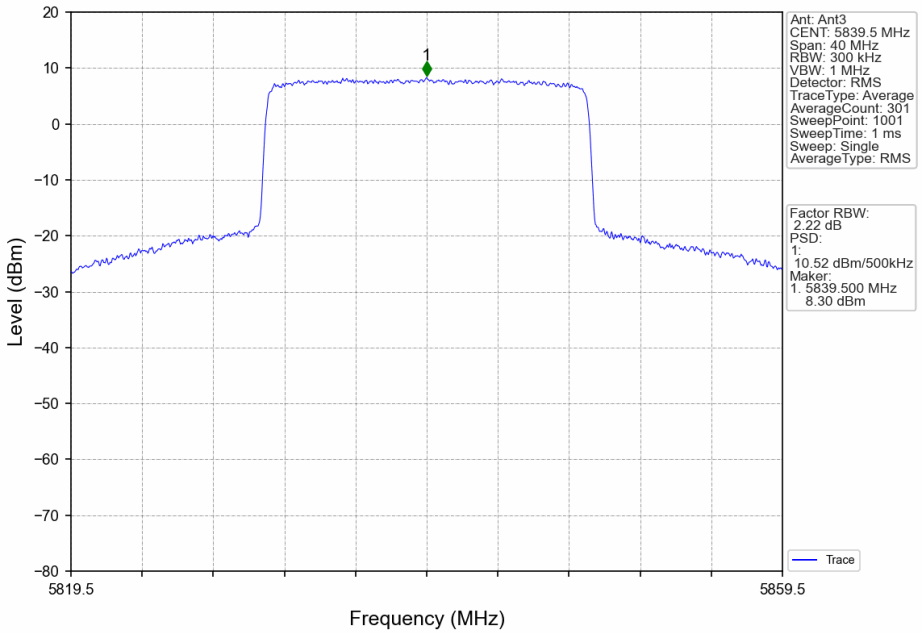
20M_HCH_5839.5MHz_Ant3_NTNV



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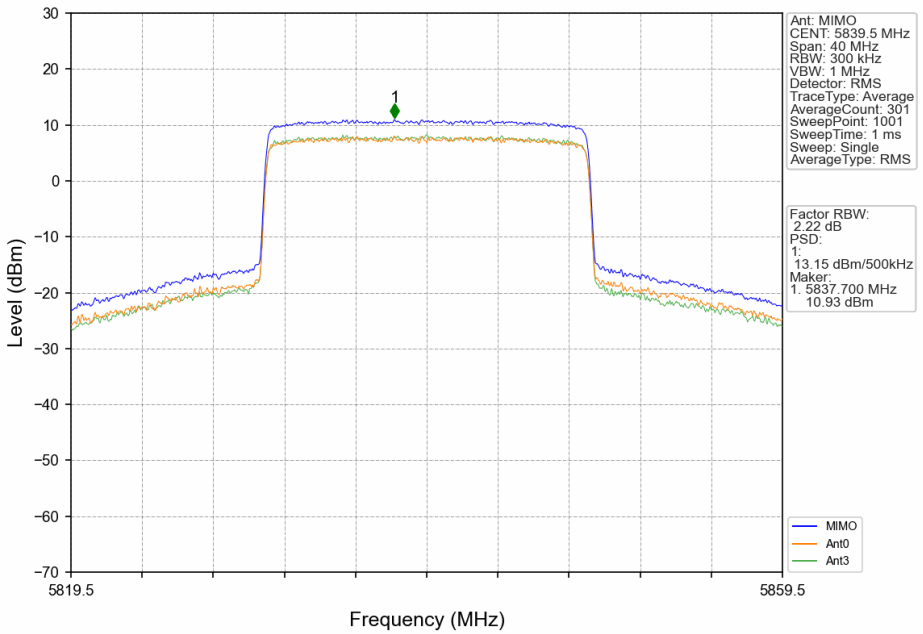

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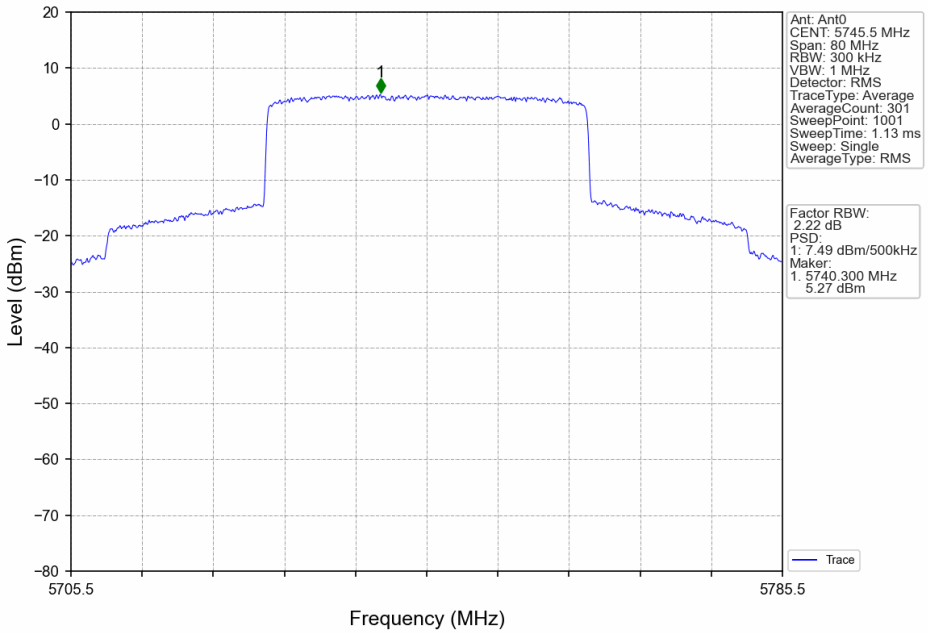
40M_LCH_5745.5MHz_Ant0_NTNV



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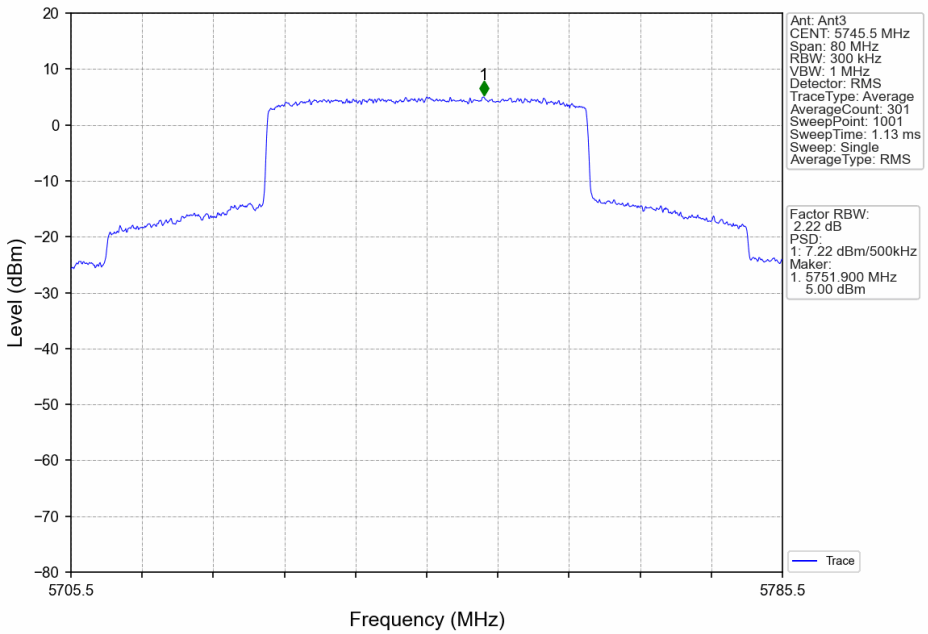

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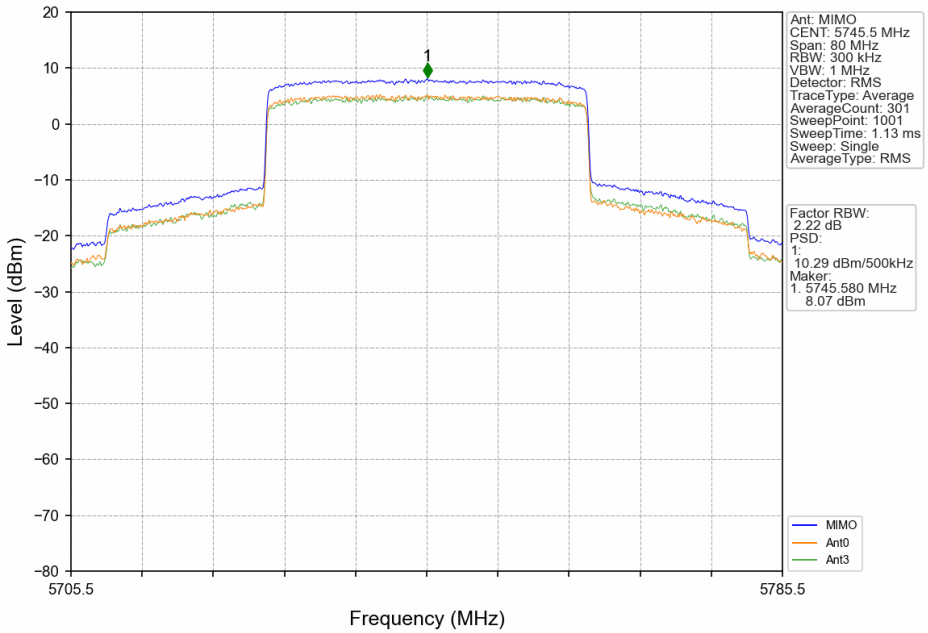
40M_LCH_5745.5MHz_MIMO_NTNV



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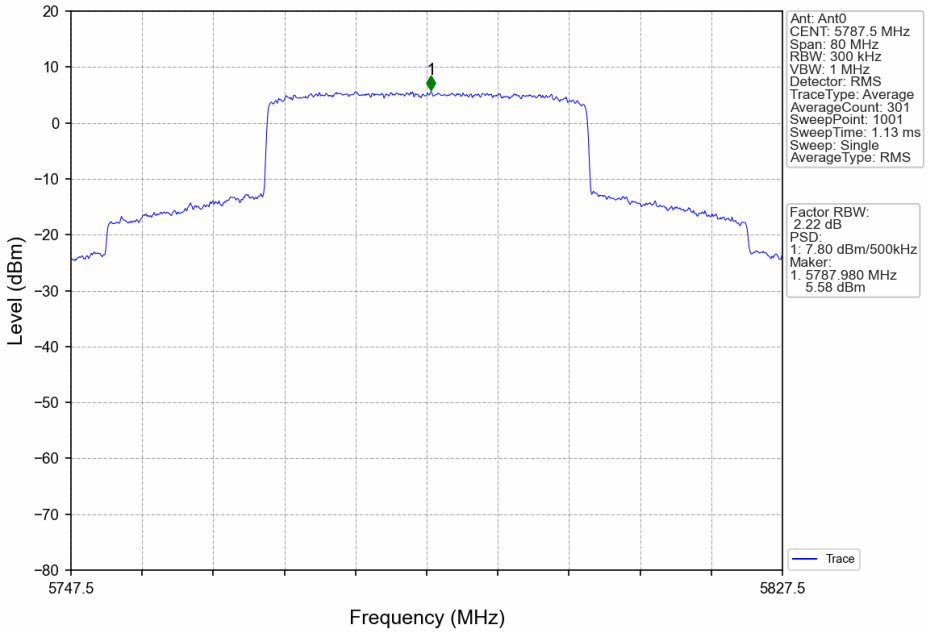

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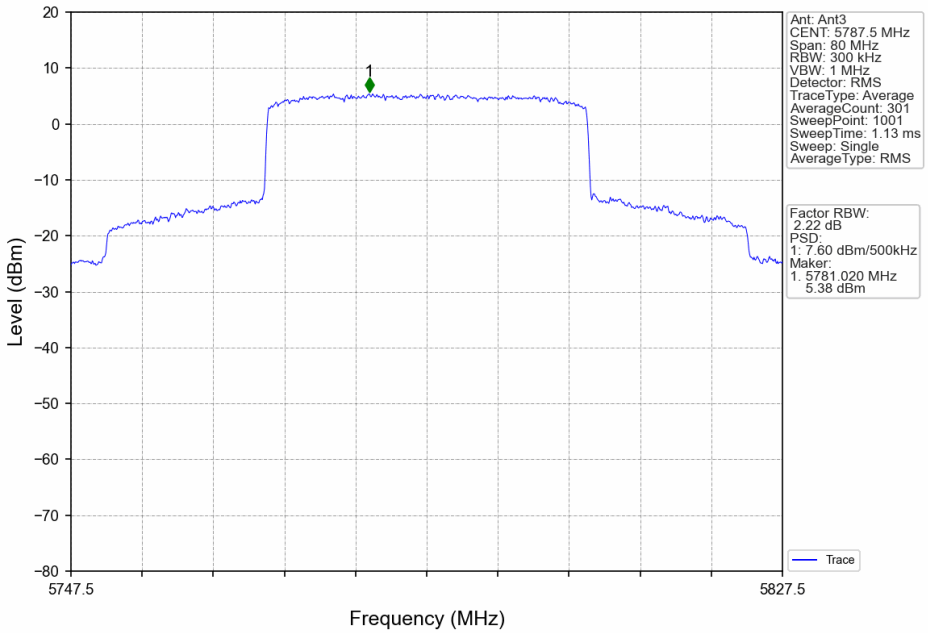
40M_MCH_5787.5MHz_Ant3_NTNV



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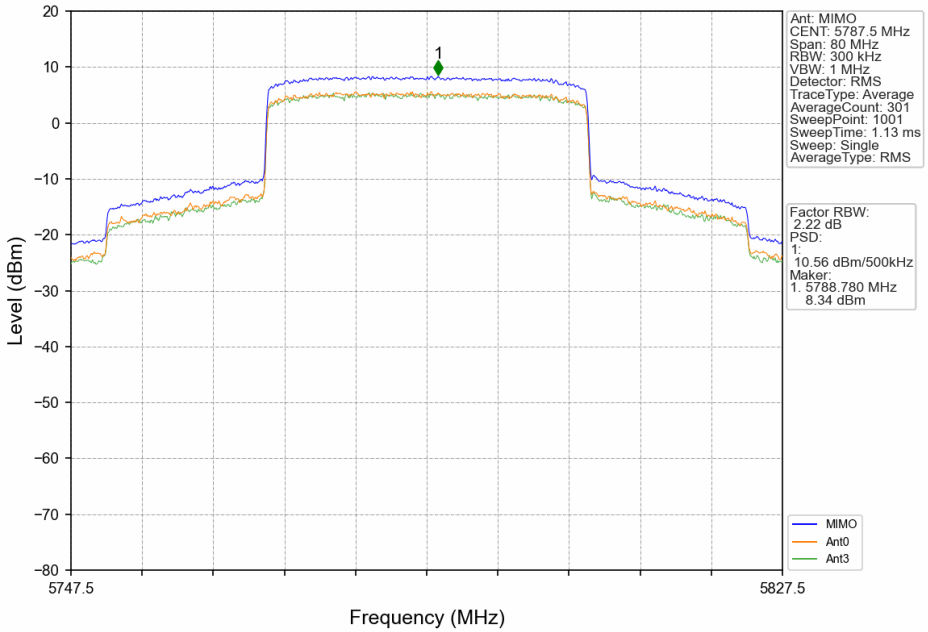

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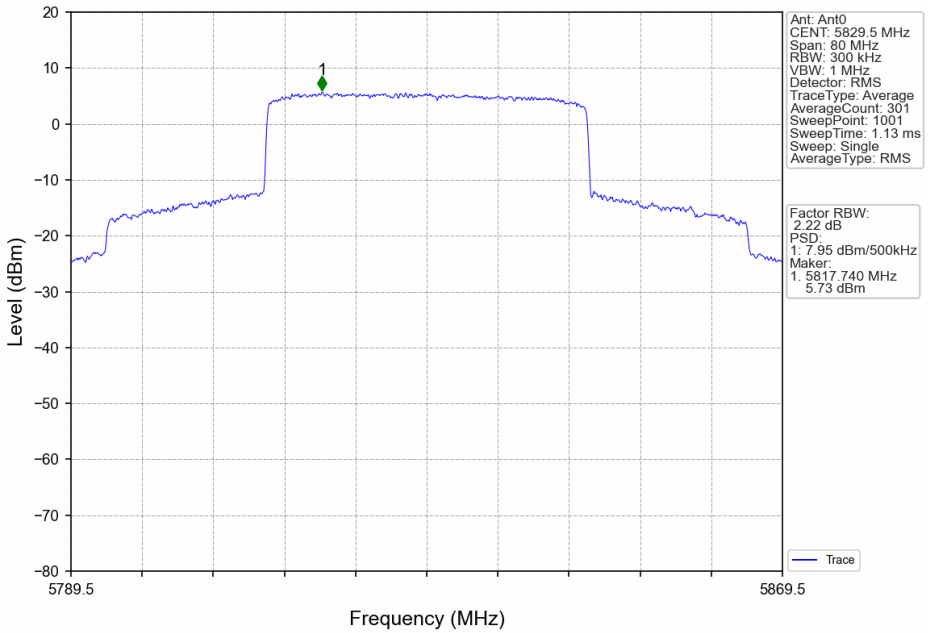
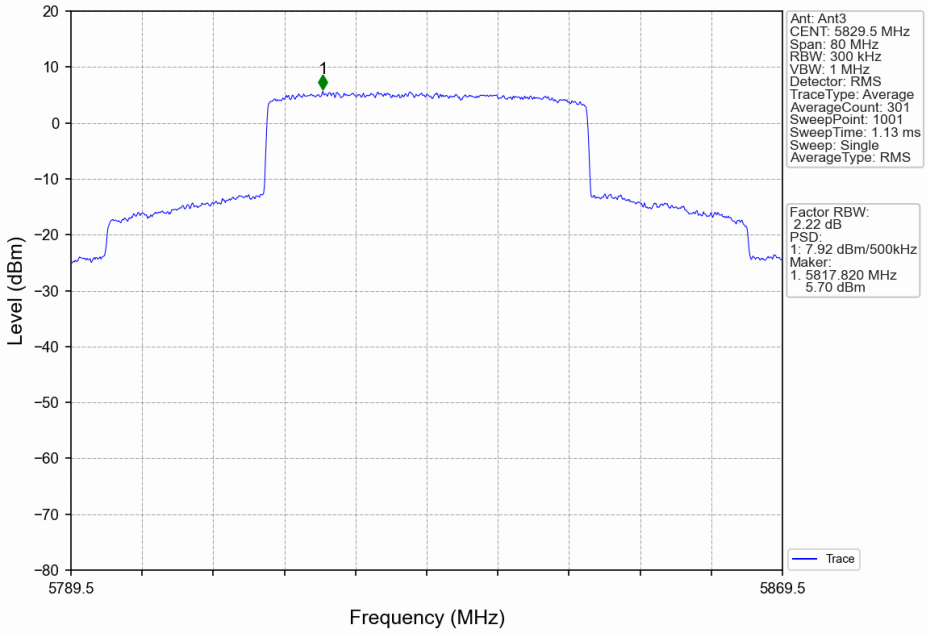
40M_HCH_5829.5MHz_Ant0_NTNV



40M_HCH_5829.5MHz_Ant3_NTNV



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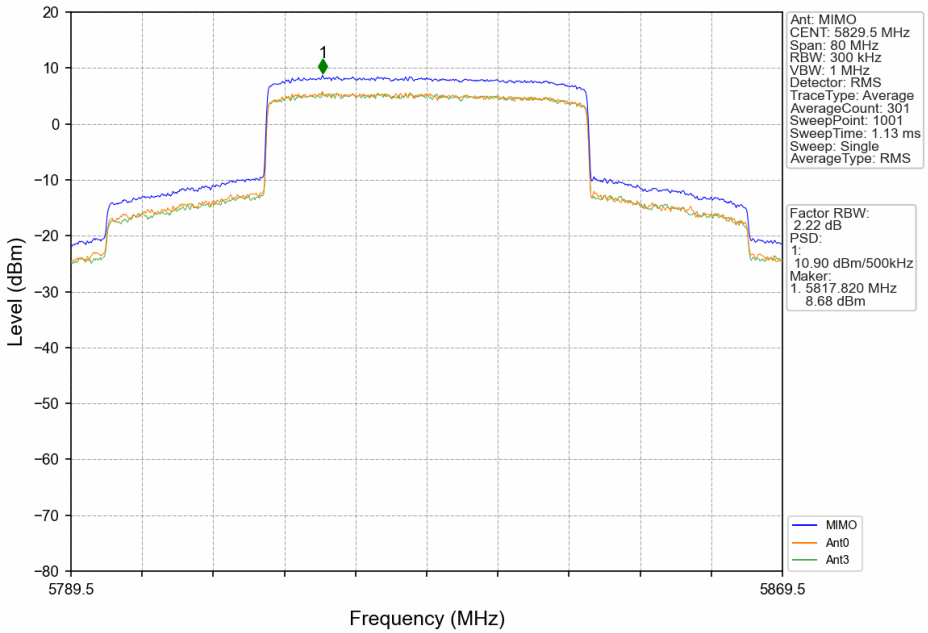

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5. Frequency Stability

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	MIMO	5728.5	20	13.09	5728.486	5725 to 5850	Pass
				15.40	5728.486	5725 to 5850	Pass
				17.71	5728.486	5725 to 5850	Pass
			-10	15.40	5728.489	5725 to 5850	Pass
			-5	15.40	5728.490	5725 to 5850	Pass
			0	15.40	5728.486	5725 to 5850	Pass
			5	15.40	5728.492	5725 to 5850	Pass
			10	15.40	5728.489	5725 to 5850	Pass
			20	15.40	5728.490	5725 to 5850	Pass
			30	15.40	5728.490	5725 to 5850	Pass
			40	15.40	5728.489	5725 to 5850	Pass
		5786.5	20	13.09	5786.486	5725 to 5850	Pass
				15.40	5786.486	5725 to 5850	Pass
				17.71	5786.485	5725 to 5850	Pass
			-10	15.40	5786.486	5725 to 5850	Pass
			-5	15.40	5786.485	5725 to 5850	Pass
			0	15.40	5786.490	5725 to 5850	Pass
			5	15.40	5786.489	5725 to 5850	Pass
			10	15.40	5786.487	5725 to 5850	Pass
			20	15.40	5786.490	5725 to 5850	Pass
			30	15.40	5786.486	5725 to 5850	Pass
			40	15.40	5786.486	5725 to 5850	Pass
		5848.12	20	13.09	5848.112	5725 to 5850	Pass
				15.40	5848.110	5725 to 5850	Pass
				17.71	5848.114	5725 to 5850	Pass
			-10	15.40	5848.109	5725 to 5850	Pass
			-5	15.40	5848.110	5725 to 5850	Pass
			0	15.40	5848.109	5725 to 5850	Pass
			5	15.40	5848.107	5725 to 5850	Pass
			10	15.40	5848.107	5725 to 5850	Pass

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			20	15.40	5848.105	5725 to 5850	Pass
			30	15.40	5848.109	5725 to 5850	Pass
			40	15.40	5848.112	5725 to 5850	Pass
3M	MIMO	5727.5	20	13.09	5727.503	5725 to 5850	Pass
				15.40	5727.494	5725 to 5850	Pass
				17.71	5727.503	5725 to 5850	Pass
			-10	15.40	5727.497	5725 to 5850	Pass
			-5	15.40	5727.497	5725 to 5850	Pass
			0	15.40	5727.491	5725 to 5850	Pass
			5	15.40	5727.503	5725 to 5850	Pass
			10	15.40	5727.500	5725 to 5850	Pass
			20	15.40	5727.494	5725 to 5850	Pass
			30	15.40	5727.500	5725 to 5850	Pass
			40	15.40	5727.497	5725 to 5850	Pass
		5784.5	20	13.09	5784.497	5725 to 5850	Pass
				15.40	5784.497	5725 to 5850	Pass
				17.71	5784.497	5725 to 5850	Pass
			-10	15.40	5784.500	5725 to 5850	Pass
			-5	15.40	5784.500	5725 to 5850	Pass
			0	15.40	5784.494	5725 to 5850	Pass
			5	15.40	5784.503	5725 to 5850	Pass
			10	15.40	5784.497	5725 to 5850	Pass
			20	15.40	5784.500	5725 to 5850	Pass
			30	15.40	5784.500	5725 to 5850	Pass
			40	15.40	5784.491	5725 to 5850	Pass
		5847.2	20	13.09	5847.203	5725 to 5850	Pass
				15.40	5847.191	5725 to 5850	Pass
				17.71	5847.194	5725 to 5850	Pass
			-10	15.40	5847.194	5725 to 5850	Pass
			-5	15.40	5847.194	5725 to 5850	Pass
			0	15.40	5847.197	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	5847.200	5725 to 5850	Pass
			30	15.40	5847.197	5725 to 5850	Pass
			40	15.40	5847.200	5725 to 5850	Pass
10M	MIMO	5730.5	20	13.09	5730.510	5725 to 5850	Pass
				15.40	5730.540	5725 to 5850	Pass
				17.71	5730.530	5725 to 5850	Pass
			-10	15.40	5730.520	5725 to 5850	Pass

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			-5	15.40	5730.500	5725 to 5850	Pass
			0	15.40	5730.510	5725 to 5850	Pass
			5	15.40	5730.520	5725 to 5850	Pass
			10	15.40	5730.530	5725 to 5850	Pass
			20	15.40	5730.540	5725 to 5850	Pass
			30	15.40	5730.500	5725 to 5850	Pass
			40	15.40	5730.510	5725 to 5850	Pass
		5787.5	20	13.09	5787.520	5725 to 5850	Pass
				15.40	5787.510	5725 to 5850	Pass
				17.71	5787.520	5725 to 5850	Pass
			-10	15.40	5787.510	5725 to 5850	Pass
			-5	15.40	5787.510	5725 to 5850	Pass
			0	15.40	5787.530	5725 to 5850	Pass
			5	15.40	5787.520	5725 to 5850	Pass
			10	15.40	5787.490	5725 to 5850	Pass
			20	15.40	5787.530	5725 to 5850	Pass
			30	15.40	5787.550	5725 to 5850	Pass
			40	15.40	5787.540	5725 to 5850	Pass
		5844.5	20	13.09	5844.510	5725 to 5850	Pass
				15.40	5844.500	5725 to 5850	Pass
				17.71	5844.530	5725 to 5850	Pass
			-10	15.40	5844.490	5725 to 5850	Pass
			-5	15.40	5844.530	5725 to 5850	Pass
			0	15.40	5844.510	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	5844.500	5725 to 5850	Pass
			30	15.40	5844.520	5725 to 5850	Pass
			40	15.40	5844.540	5725 to 5850	Pass
20M	MIMO	5735.5	20	13.09	5735.520	5725 to 5850	Pass
				15.40	5735.580	5725 to 5850	Pass
				17.71	5735.500	5725 to 5850	Pass
			-10	15.40	5735.520	5725 to 5850	Pass
			-5	15.40	5735.540	5725 to 5850	Pass
			0	15.40	5735.520	5725 to 5850	Pass
			5	15.40	5735.500	5725 to 5850	Pass
			10	15.40	5735.520	5725 to 5850	Pass
			20	15.40	5735.600	5725 to 5850	Pass
			30	15.40	5735.520	5725 to 5850	Pass
			40	15.40	5735.540	5725 to 5850	Pass

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		5787.5	20	13.09	5787.520	5725 to 5850	Pass
				15.40	5787.500	5725 to 5850	Pass
				17.71	5787.540	5725 to 5850	Pass
			-10	15.40	5787.520	5725 to 5850	Pass
			-5	15.40	5787.520	5725 to 5850	Pass
			0	15.40	5787.500	5725 to 5850	Pass
			5	15.40	5787.540	5725 to 5850	Pass
			10	15.40	5787.500	5725 to 5850	Pass
			20	15.40	5787.560	5725 to 5850	Pass
			30	15.40	5787.600	5725 to 5850	Pass
			40	15.40	5787.500	5725 to 5850	Pass
		5839.5	20	13.09	5839.580	5725 to 5850	Pass
				15.40	5839.500	5725 to 5850	Pass
				17.71	5839.540	5725 to 5850	Pass
			-10	15.40	5839.520	5725 to 5850	Pass
			-5	15.40	5839.540	5725 to 5850	Pass
			0	15.40	5839.540	5725 to 5850	Pass
			5	15.40	5839.520	5725 to 5850	Pass
			10	15.40	5839.500	5725 to 5850	Pass
			20	15.40	5839.500	5725 to 5850	Pass
			30	15.40	5839.520	5725 to 5850	Pass
			40	15.40	5839.520	5725 to 5850	Pass
40M	MIMO	5745.5	20	13.09	5745.580	5725 to 5850	Pass
				15.40	5745.580	5725 to 5850	Pass
				17.71	5745.580	5725 to 5850	Pass
			-10	15.40	5745.540	5725 to 5850	Pass
			-5	15.40	5745.580	5725 to 5850	Pass
			0	15.40	5745.580	5725 to 5850	Pass
			5	15.40	5745.580	5725 to 5850	Pass
			10	15.40	5745.580	5725 to 5850	Pass
			20	15.40	5745.580	5725 to 5850	Pass
			30	15.40	5745.580	5725 to 5850	Pass
			40	15.40	5745.540	5725 to 5850	Pass
		5787.5	20	13.09	5787.580	5725 to 5850	Pass
				15.40	5787.620	5725 to 5850	Pass
				17.71	5787.540	5725 to 5850	Pass
			-10	15.40	5787.580	5725 to 5850	Pass
			-5	15.40	5787.500	5725 to 5850	Pass
			0	15.40	5787.540	5725 to 5850	Pass
			5	15.40	5787.540	5725 to 5850	Pass

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			10	15.40	5787.580	5725 to 5850	Pass
			20	15.40	5787.500	5725 to 5850	Pass
			30	15.40	5787.580	5725 to 5850	Pass
			40	15.40	5787.620	5725 to 5850	Pass
		5829.5	20	13.09	5829.580	5725 to 5850	Pass
				15.40	5829.540	5725 to 5850	Pass
				17.71	5829.620	5725 to 5850	Pass
			-10	15.40	5829.580	5725 to 5850	Pass
			-5	15.40	5829.540	5725 to 5850	Pass
			0	15.40	5829.580	5725 to 5850	Pass
			5	15.40	5829.540	5725 to 5850	Pass
			10	15.40	5829.580	5725 to 5850	Pass
			20	15.40	5829.540	5725 to 5850	Pass
			30	15.40	5829.540	5725 to 5850	Pass
			40	15.40	5829.540	5725 to 5850	Pass

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