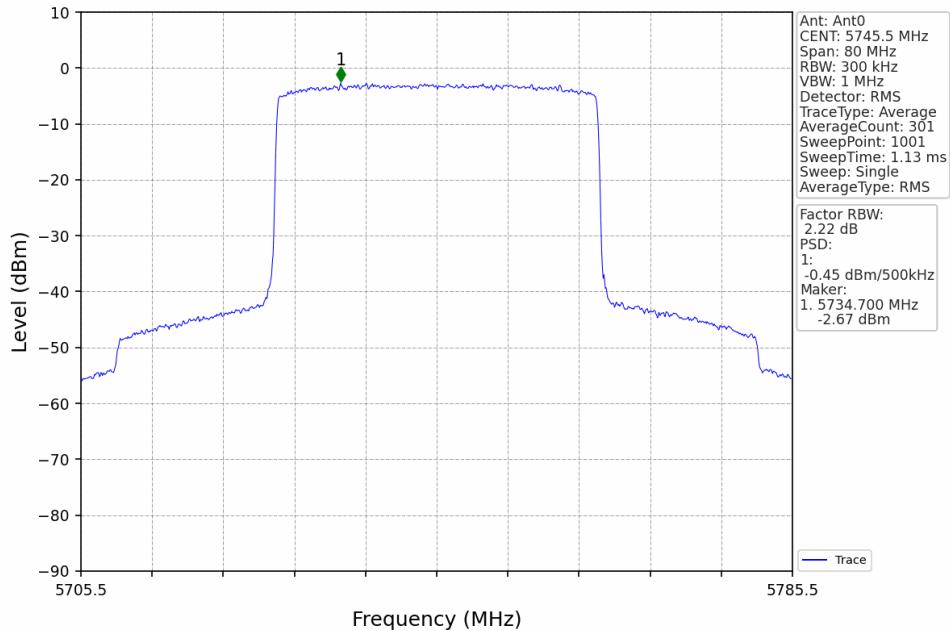
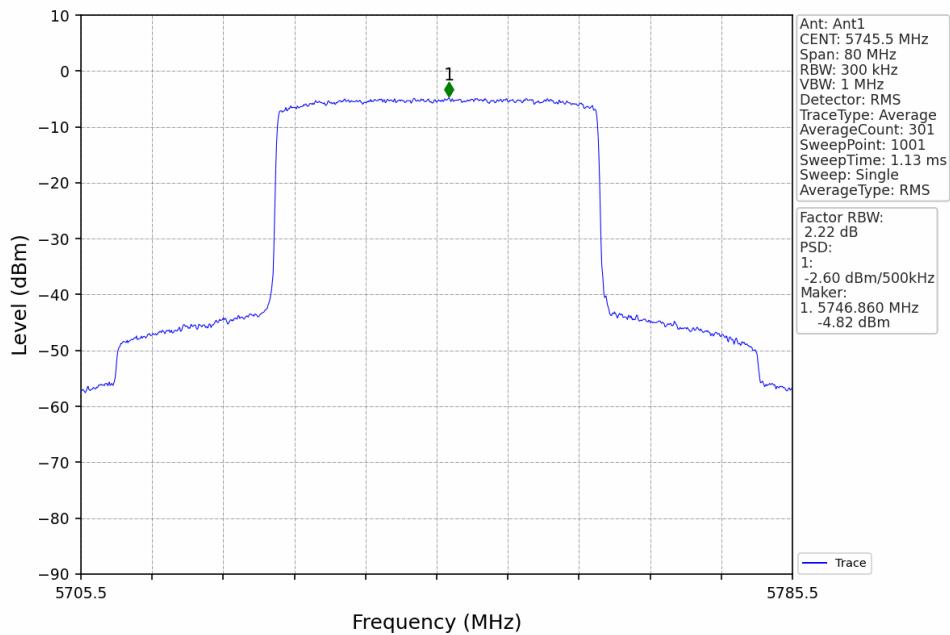


40M_LCH_5745.5MHz_Ant0_NTNV**40M_LCH_5745.5MHz_Ant1_NTNV**

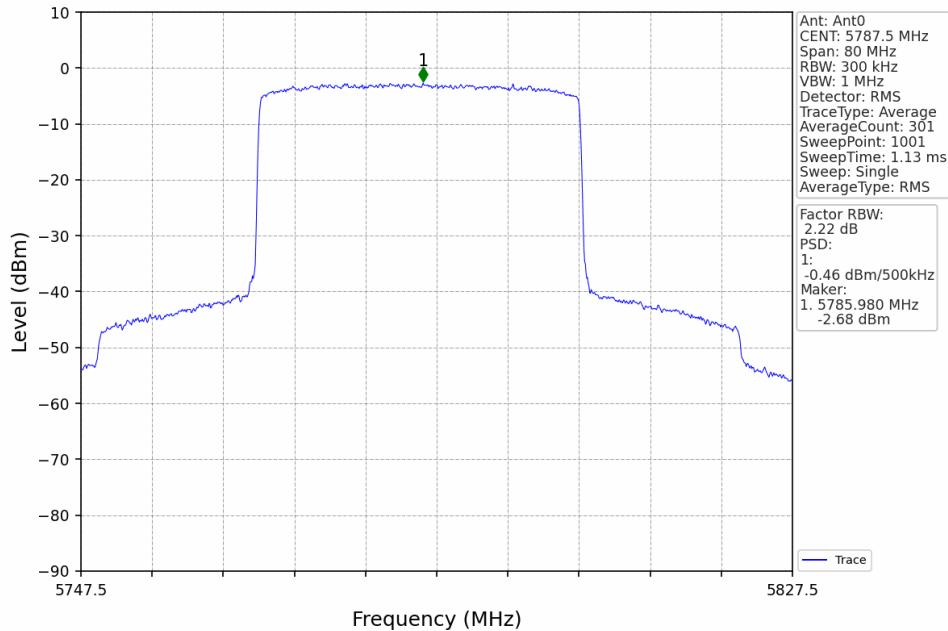
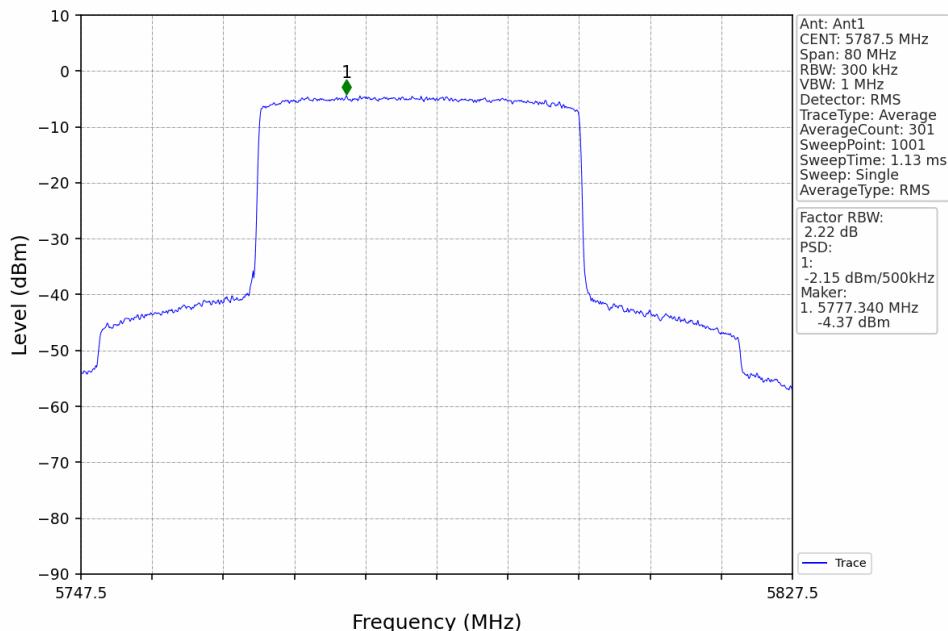
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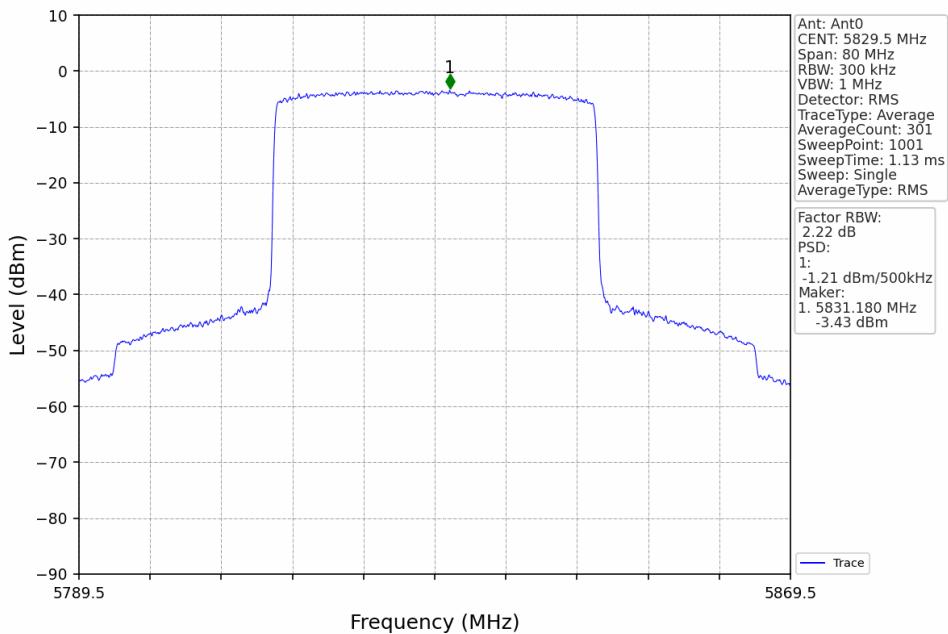
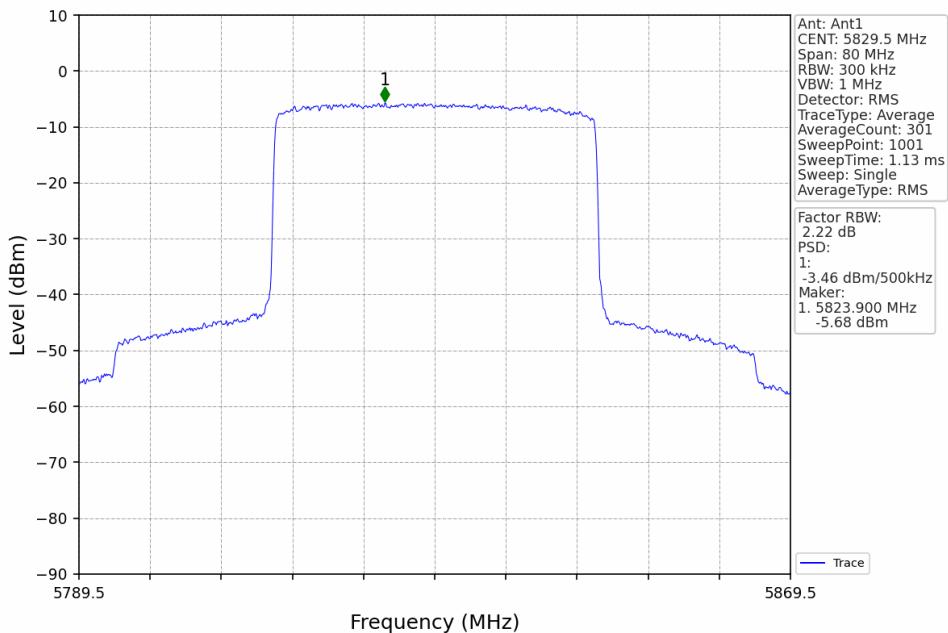
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40M_MCH_5787.5MHz_Ant0_NTNV**40M_MCH_5787.5MHz_Ant1_NTNV**

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40M_HCH_5829.5MHz_Ant0_NTNV**40M_HCH_5829.5MHz_Ant1_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	8.28	5728.494	5725 to 5850	Pass
				7.20	5728.496	5725 to 5850	Pass
				6.12	5728.496	5725 to 5850	Pass
			-10	7.20	5728.493	5725 to 5850	Pass
			-5	7.20	5728.496	5725 to 5850	Pass
			0	7.20	5728.497	5725 to 5850	Pass
			5	7.20	5728.494	5725 to 5850	Pass
			10	7.20	5728.494	5725 to 5850	Pass
			20	7.20	5728.493	5725 to 5850	Pass
			30	7.20	5728.494	5725 to 5850	Pass
			40	7.20	5728.496	5725 to 5850	Pass
		5786.5	20	8.28	5786.562	5725 to 5850	Pass
				7.20	5786.566	5725 to 5850	Pass
				6.12	5786.559	5725 to 5850	Pass
			-10	7.20	5786.556	5725 to 5850	Pass
			-5	7.20	5786.562	5725 to 5850	Pass
			0	7.20	5786.560	5725 to 5850	Pass
			5	7.20	5786.557	5725 to 5850	Pass
			10	7.20	5786.560	5725 to 5850	Pass
			20	7.20	5786.555	5725 to 5850	Pass
			30	7.20	5786.559	5725 to 5850	Pass
			40	7.20	5786.557	5725 to 5850	Pass
		5848.12	20	8.28	5848.173	5725 to 5850	Pass
				7.20	5848.172	5725 to 5850	Pass
				6.12	5848.170	5725 to 5850	Pass
			-10	7.20	5848.177	5725 to 5850	Pass
			-5	7.20	5848.173	5725 to 5850	Pass
			0	7.20	5848.177	5725 to 5850	Pass
			5	7.20	5848.179	5725 to 5850	Pass
			10	7.20	5848.176	5725 to 5850	Pass

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			20	7.20	5848.176	5725 to 5850	Pass	
			30	7.20	5848.177	5725 to 5850	Pass	
			40	7.20	5848.175	5725 to 5850	Pass	
3M	SISO	5727.5	20	8.28	5727.539	5725 to 5850	Pass	
				7.20	5727.500	5725 to 5850	Pass	
				6.12	5727.521	5725 to 5850	Pass	
				-10	5727.515	5725 to 5850	Pass	
				-5	5727.515	5725 to 5850	Pass	
				0	5727.512	5725 to 5850	Pass	
				5	5727.536	5725 to 5850	Pass	
				10	5727.539	5725 to 5850	Pass	
				20	5727.515	5725 to 5850	Pass	
				30	5727.527	5725 to 5850	Pass	
			5784.5	40	5727.521	5725 to 5850	Pass	
				20	8.28	5784.500	5725 to 5850	Pass
					7.20	5784.491	5725 to 5850	Pass
					6.12	5784.518	5725 to 5850	Pass
					-10	5784.503	5725 to 5850	Pass
					-5	5784.500	5725 to 5850	Pass
					0	5784.491	5725 to 5850	Pass
					5	5784.497	5725 to 5850	Pass
					10	5784.491	5725 to 5850	Pass
					20	5784.494	5725 to 5850	Pass
					30	5784.506	5725 to 5850	Pass
			5847.2		40	5784.509	5725 to 5850	Pass
			20	8.28	5847.215	5725 to 5850	Pass	
				7.20	5847.212	5725 to 5850	Pass	
				6.12	5847.206	5725 to 5850	Pass	
				-10	5847.200	5725 to 5850	Pass	
				-5	5847.212	5725 to 5850	Pass	
				0	5847.215	5725 to 5850	Pass	
				5	5847.215	5725 to 5850	Pass	
				10	5847.203	5725 to 5850	Pass	
				20	5847.215	5725 to 5850	Pass	
				30	5847.218	5725 to 5850	Pass	
				5730.5		40	5847.212	5725 to 5850
10M	SISO	5730.5		20	8.28	5730.570	5725 to 5850	Pass
					7.20	5730.520	5725 to 5850	Pass
					6.12	5730.510	5725 to 5850	Pass
				-10	7.20	5730.530	5725 to 5850	Pass

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			-5	7.20	5730.520	5725 to 5850	Pass
			0	7.20	5730.510	5725 to 5850	Pass
			5	7.20	5730.490	5725 to 5850	Pass
			10	7.20	5730.540	5725 to 5850	Pass
			20	7.20	5730.520	5725 to 5850	Pass
			30	7.20	5730.500	5725 to 5850	Pass
			40	7.20	5730.500	5725 to 5850	Pass
			5787.5	8.28	5787.540	5725 to 5850	Pass
				20	5787.510	5725 to 5850	Pass
				6.12	5787.520	5725 to 5850	Pass
				-10	5787.540	5725 to 5850	Pass
				-5	5787.520	5725 to 5850	Pass
				0	5787.540	5725 to 5850	Pass
				5	5787.520	5725 to 5850	Pass
				10	5787.510	5725 to 5850	Pass
				20	5787.560	5725 to 5850	Pass
				30	5787.540	5725 to 5850	Pass
			5844.5	40	5787.530	5725 to 5850	Pass
				8.28	5844.510	5725 to 5850	Pass
				20	5844.540	5725 to 5850	Pass
				6.12	5844.520	5725 to 5850	Pass
				-10	5844.550	5725 to 5850	Pass
				-5	5844.500	5725 to 5850	Pass
				0	5844.500	5725 to 5850	Pass
				5	5844.510	5725 to 5850	Pass
				10	5844.470	5725 to 5850	Pass
				20	5844.540	5725 to 5850	Pass
				30	5844.470	5725 to 5850	Pass
				40	5844.510	5725 to 5850	Pass
20M	SISO	5735.5	20	8.28	5735.680	5725 to 5850	Pass
				7.20	5735.480	5725 to 5850	Pass
				6.12	5735.540	5725 to 5850	Pass
				-10	5735.520	5725 to 5850	Pass
				-5	5735.480	5725 to 5850	Pass
				0	5735.520	5725 to 5850	Pass
				5	5735.500	5725 to 5850	Pass
				10	5735.540	5725 to 5850	Pass
				20	5735.520	5725 to 5850	Pass
				30	5735.520	5725 to 5850	Pass
			40	7.20	5735.560	5725 to 5850	Pass

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		5787.5	20	8.28	5787.520	5725 to 5850	Pass
				7.20	5787.580	5725 to 5850	Pass
				6.12	5787.520	5725 to 5850	Pass
				-10	5787.640	5725 to 5850	Pass
				-5	5787.400	5725 to 5850	Pass
				0	5787.540	5725 to 5850	Pass
				5	5787.520	5725 to 5850	Pass
				10	5787.560	5725 to 5850	Pass
				20	5787.500	5725 to 5850	Pass
				30	5787.680	5725 to 5850	Pass
				40	5787.540	5725 to 5850	Pass
			20	8.28	5839.580	5725 to 5850	Pass
				7.20	5839.600	5725 to 5850	Pass
				6.12	5839.580	5725 to 5850	Pass
				-10	5839.540	5725 to 5850	Pass
				-5	5839.480	5725 to 5850	Pass
				0	5839.600	5725 to 5850	Pass
				5	5839.500	5725 to 5850	Pass
				10	5839.540	5725 to 5850	Pass
				20	5839.560	5725 to 5850	Pass
				30	5839.500	5725 to 5850	Pass
				40	5839.580	5725 to 5850	Pass
40M	SISO	5745.5	20	8.28	5745.500	5725 to 5850	Pass
				7.20	5745.740	5725 to 5850	Pass
				6.12	5745.660	5725 to 5850	Pass
				-10	5745.540	5725 to 5850	Pass
				-5	5745.460	5725 to 5850	Pass
				0	5745.700	5725 to 5850	Pass
				5	5745.700	5725 to 5850	Pass
				10	5745.660	5725 to 5850	Pass
				20	5745.780	5725 to 5850	Pass
				30	5745.580	5725 to 5850	Pass
				40	5745.620	5725 to 5850	Pass
		5787.5	20	8.28	5785.420	5725 to 5850	Pass
				7.20	5785.340	5725 to 5850	Pass
				6.12	5785.660	5725 to 5850	Pass
				-10	5785.780	5725 to 5850	Pass
				-5	5785.660	5725 to 5850	Pass
				0	5785.740	5725 to 5850	Pass
				5	5785.420	5725 to 5850	Pass

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	5829.5	10	7.20	5785.460	5725 to 5850	Pass
		20	7.20	5785.660	5725 to 5850	Pass
		30	7.20	5785.540	5725 to 5850	Pass
		40	7.20	5785.540	5725 to 5850	Pass
		20	8.28	5829.700	5725 to 5850	Pass
			7.20	5829.460	5725 to 5850	Pass
			6.12	5829.260	5725 to 5850	Pass
			-10	5829.620	5725 to 5850	Pass
			-5	5829.580	5725 to 5850	Pass
			0	5829.420	5725 to 5850	Pass
			5	5829.420	5725 to 5850	Pass
			10	5829.380	5725 to 5850	Pass
			20	5829.580	5725 to 5850	Pass
			30	5829.580	5725 to 5850	Pass
		40	7.20	5829.500	5725 to 5850	Pass

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5.8G SDR MIMO Mode**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

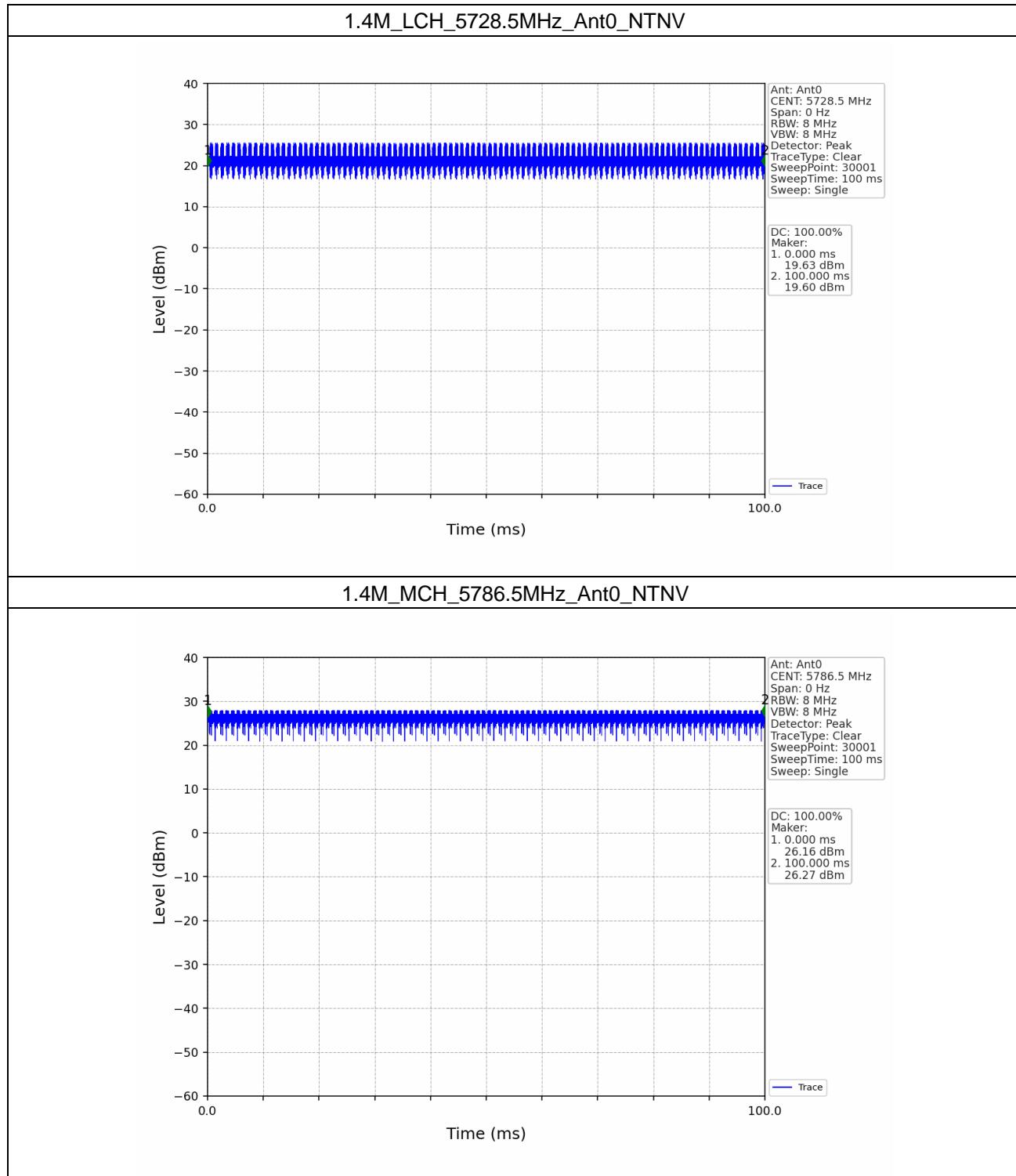
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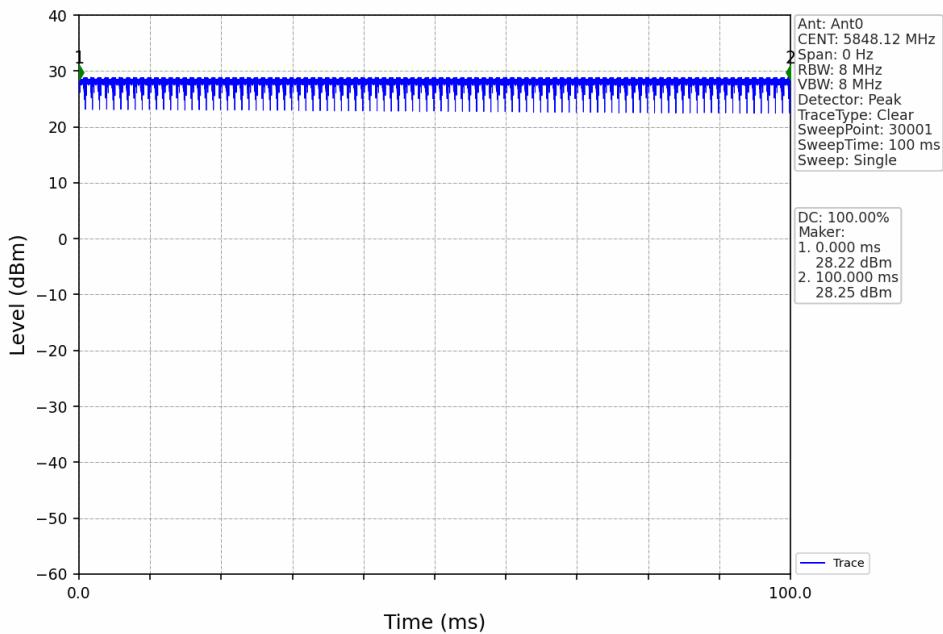
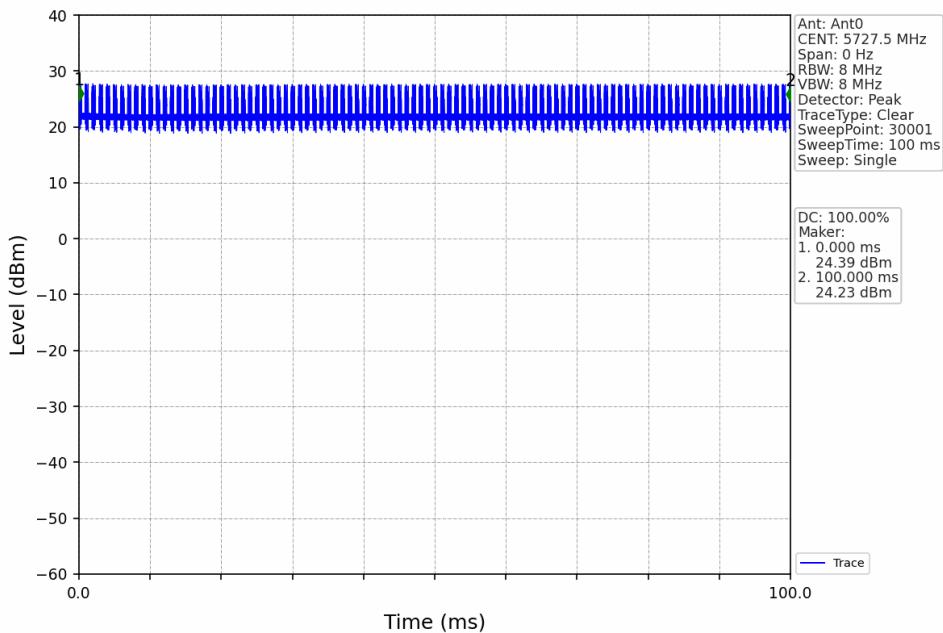
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1.1.2 Test Graph

1.4M_HCH_5848.12MHz_Ant0_NTNV**3M_LCH_5727.5MHz_Ant0_NTNV**

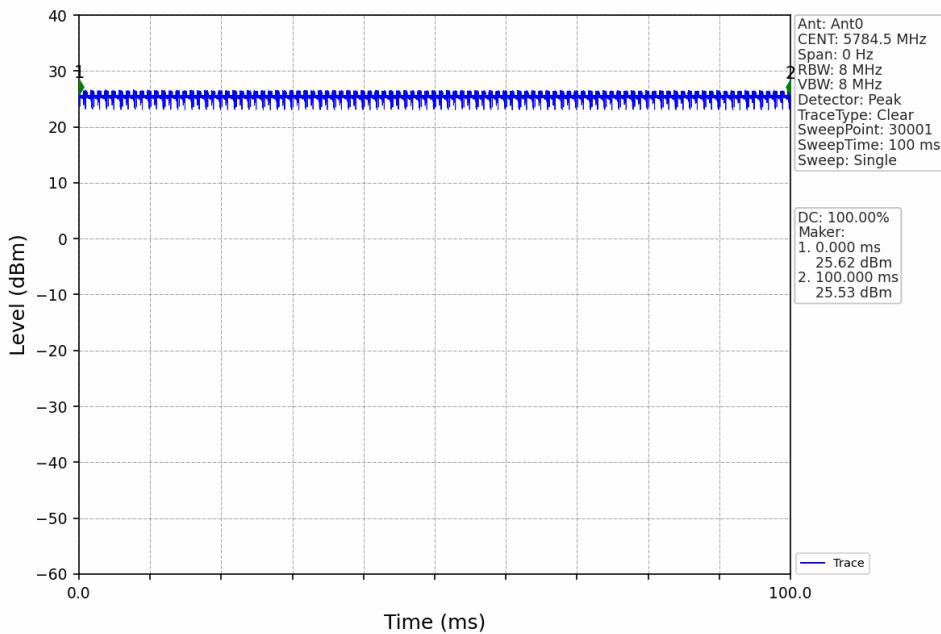
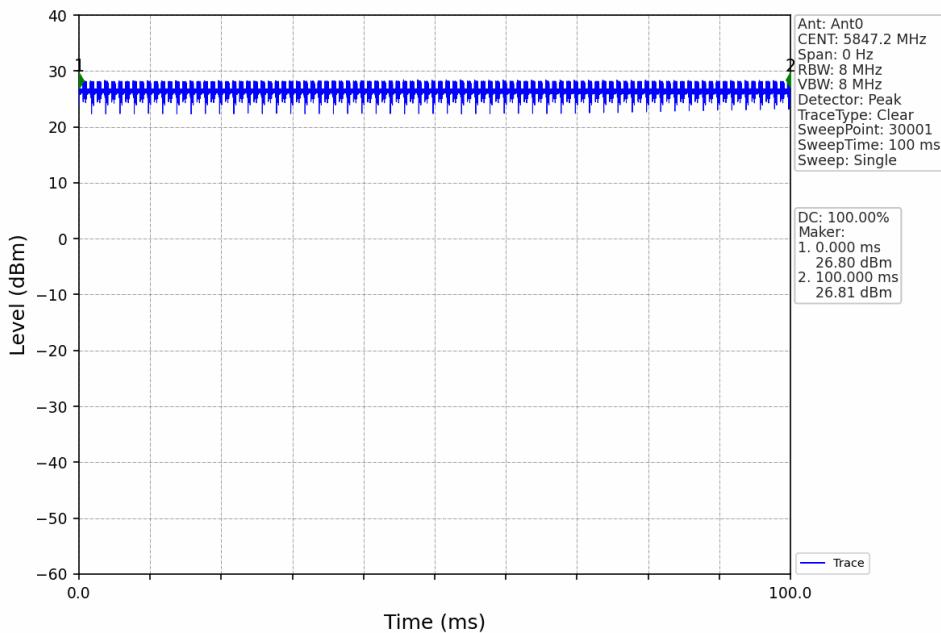
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3M_MCH_5784.5MHz_Ant0_NTNV**3M_HCH_5847.2MHz_Ant0_NTNV**

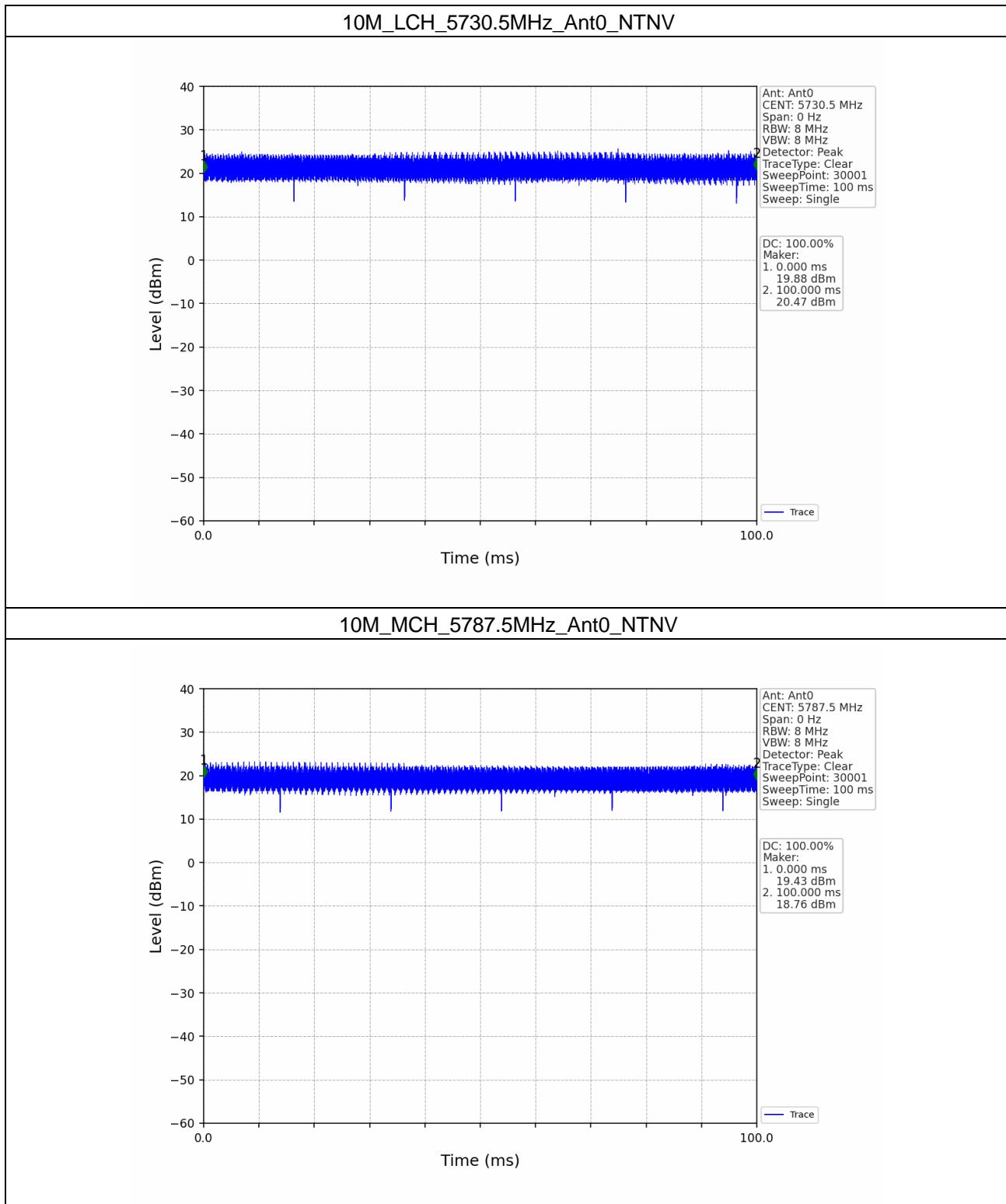
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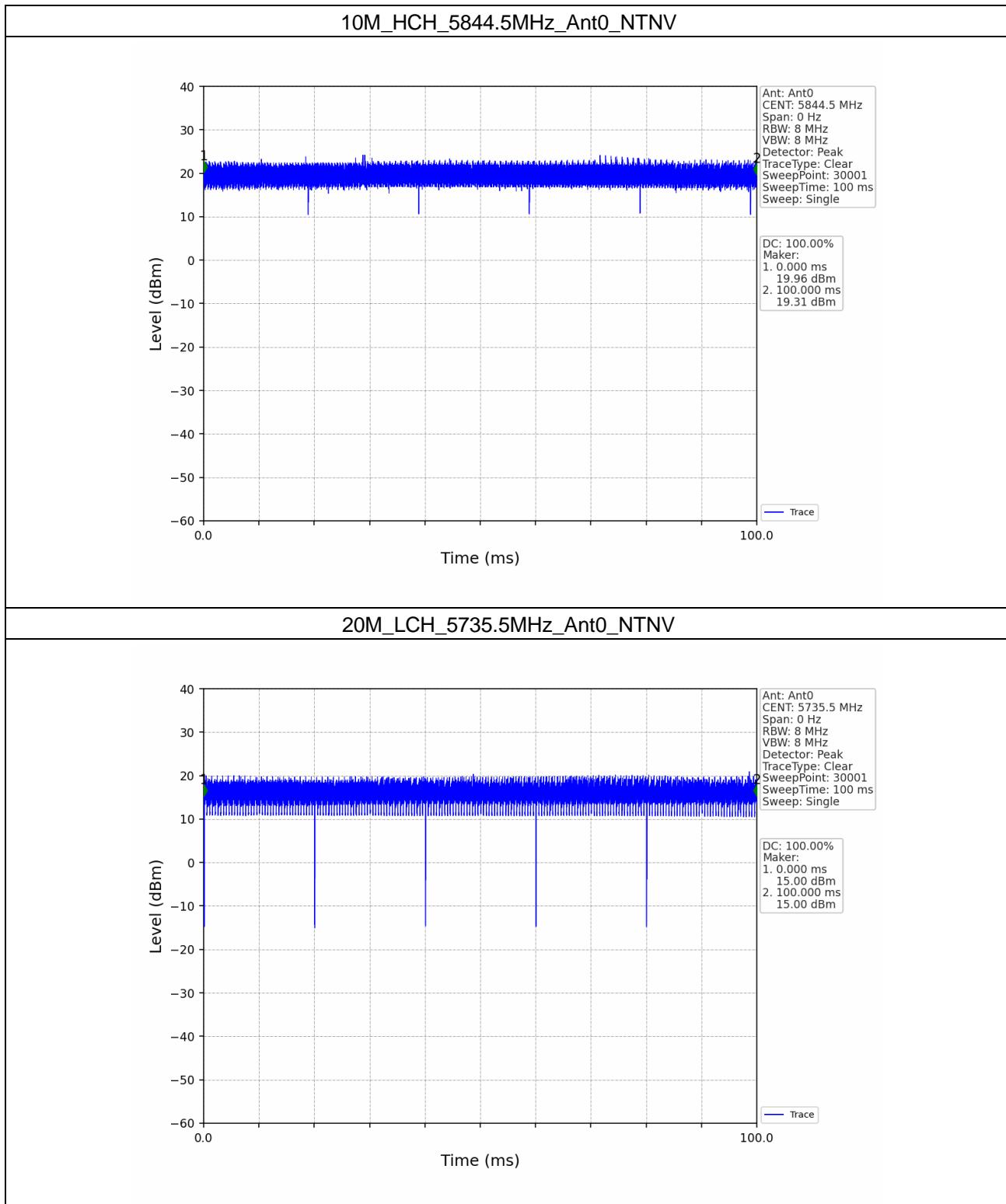
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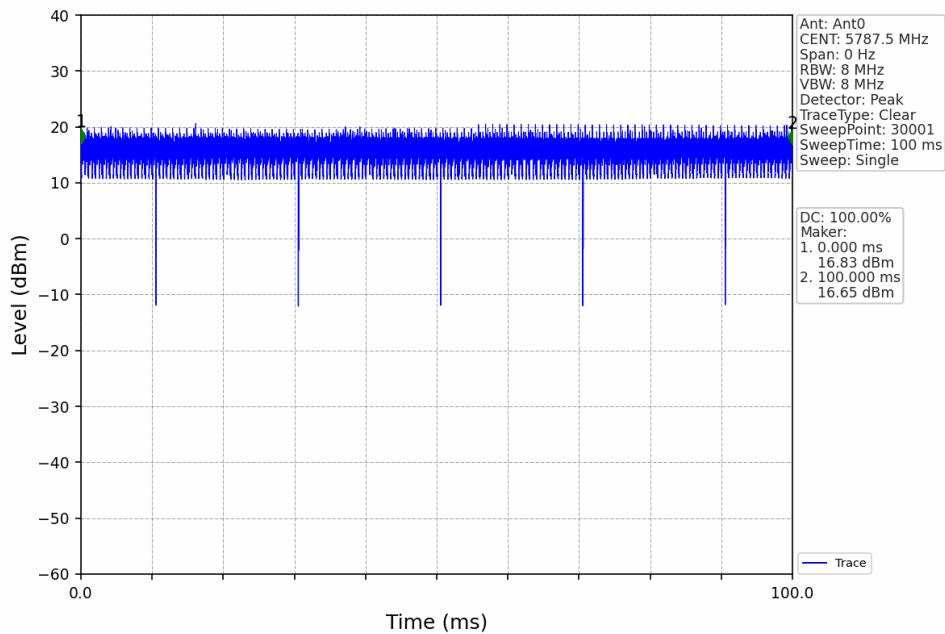
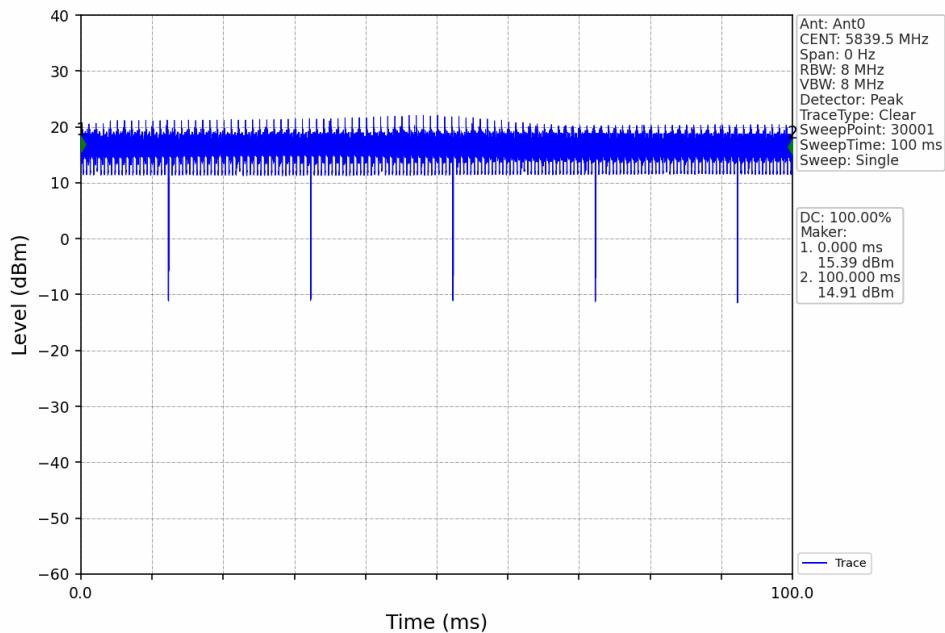
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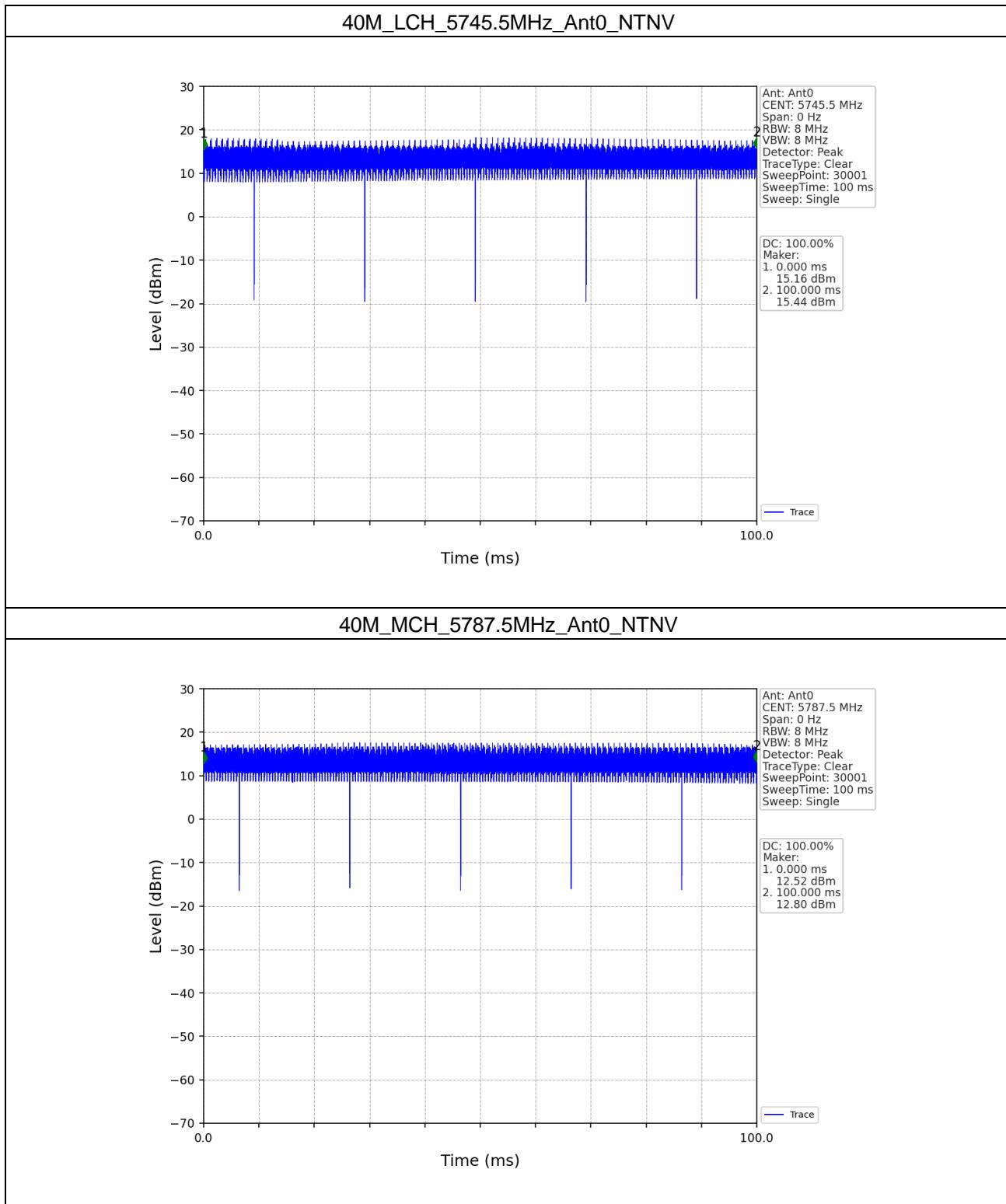
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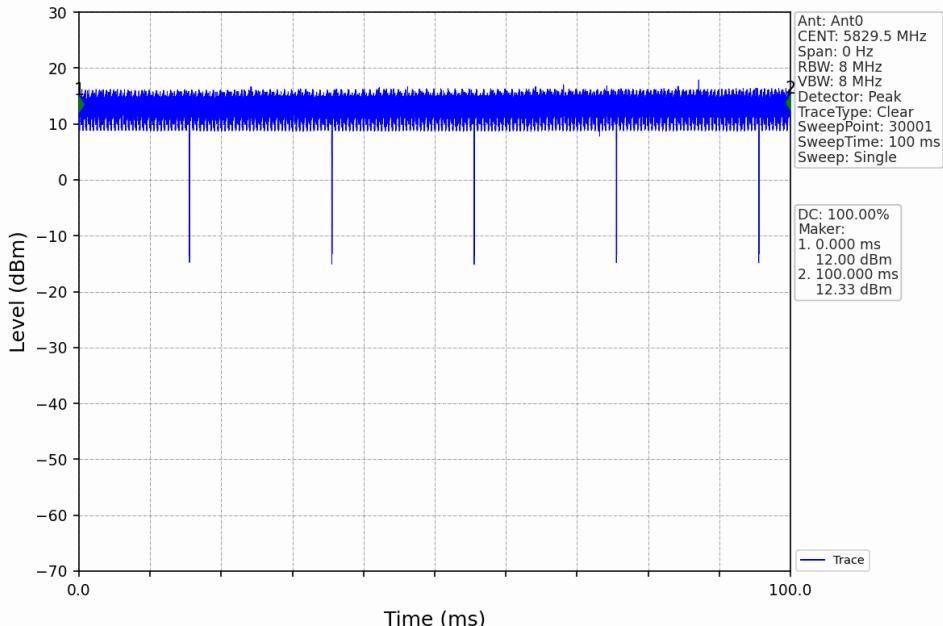
20M_MCH_5787.5MHz_Ant0_NTNV**20M_HCH_5839.5MHz_Ant0_NTNV**

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40M_HCH_5829.5MHz_Ant0_NTNV



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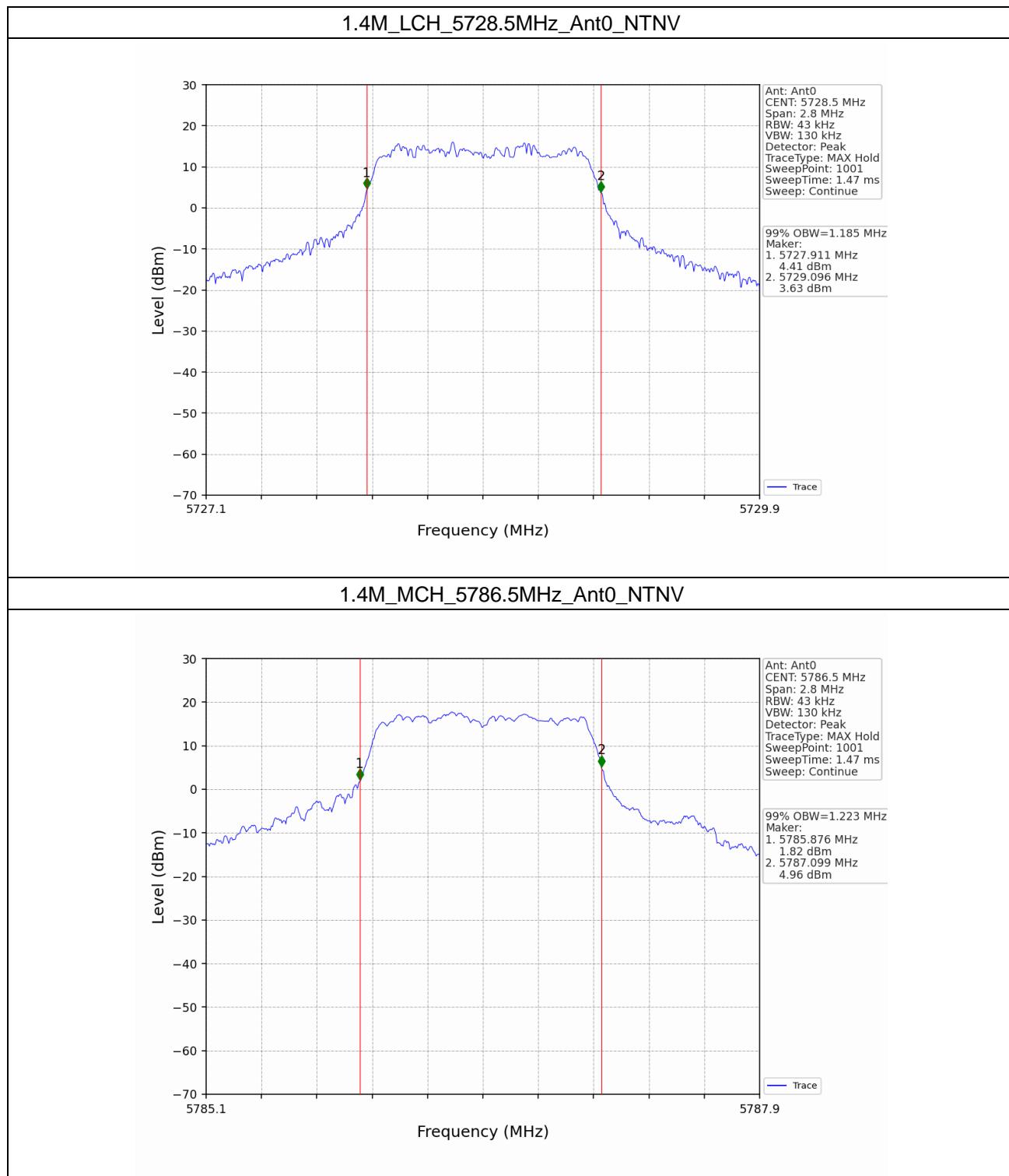
2. Bandwidth

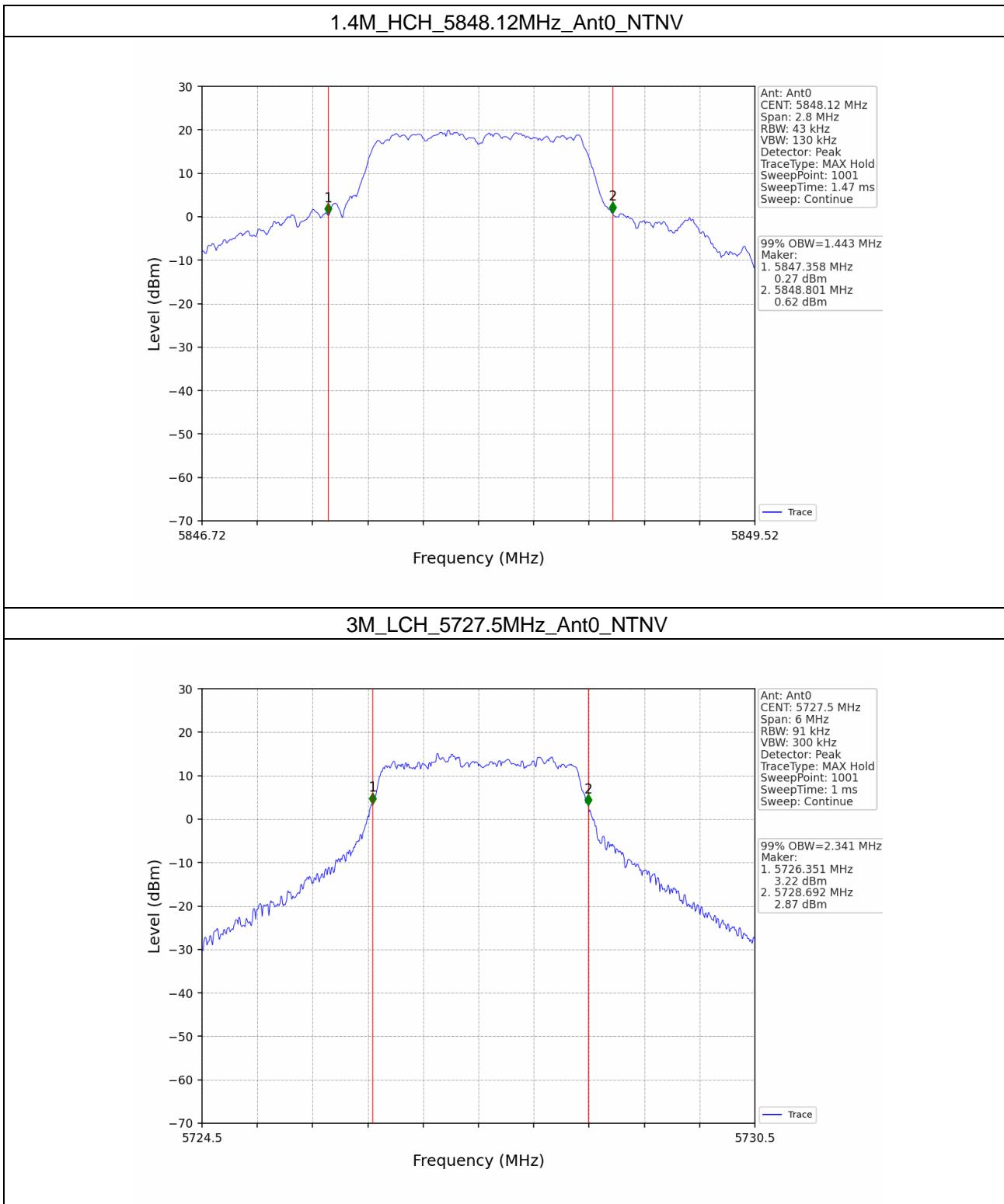
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4M	MIMO	5728.5	0	1.185	Pass
		5786.5	0	1.223	Pass
		5848.12	0	1.443	Pass
3M	MIMO	5727.5	0	2.341	Pass
		5784.5	0	2.791	Pass
		5847.2	0	2.430	Pass
10M	MIMO	5730.5	0	9.095	Pass
		5787.5	0	8.984	Pass
		5844.5	0	9.061	Pass
20M	MIMO	5735.5	0	17.918	Pass
		5787.5	0	17.939	Pass
		5839.5	0	17.968	Pass
40M	MIMO	5745.5	0	36.028	Pass
		5787.5	0	36.002	Pass
		5829.5	0	35.899	Pass

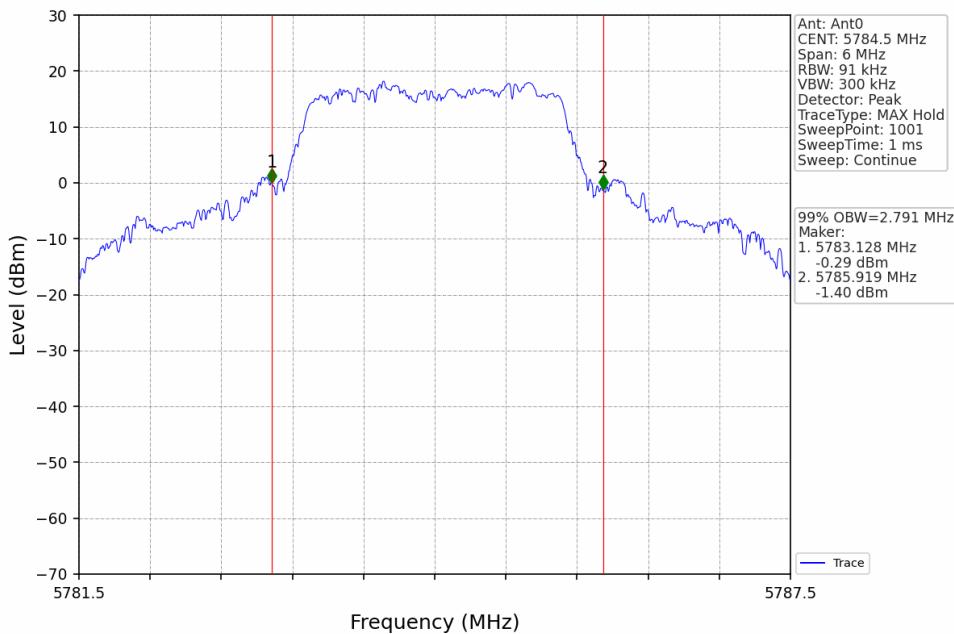
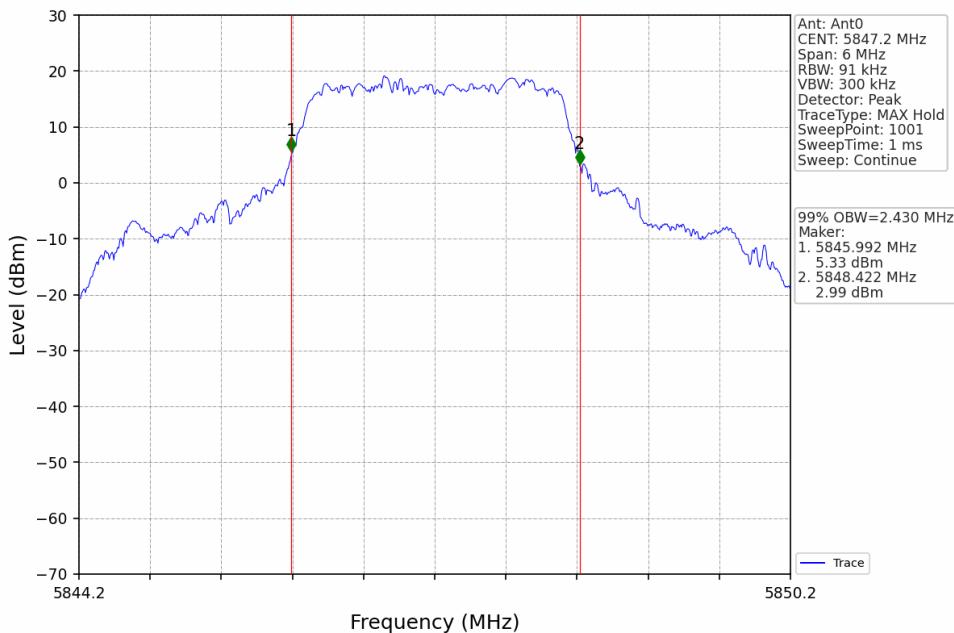


2.1.2 Test Graph



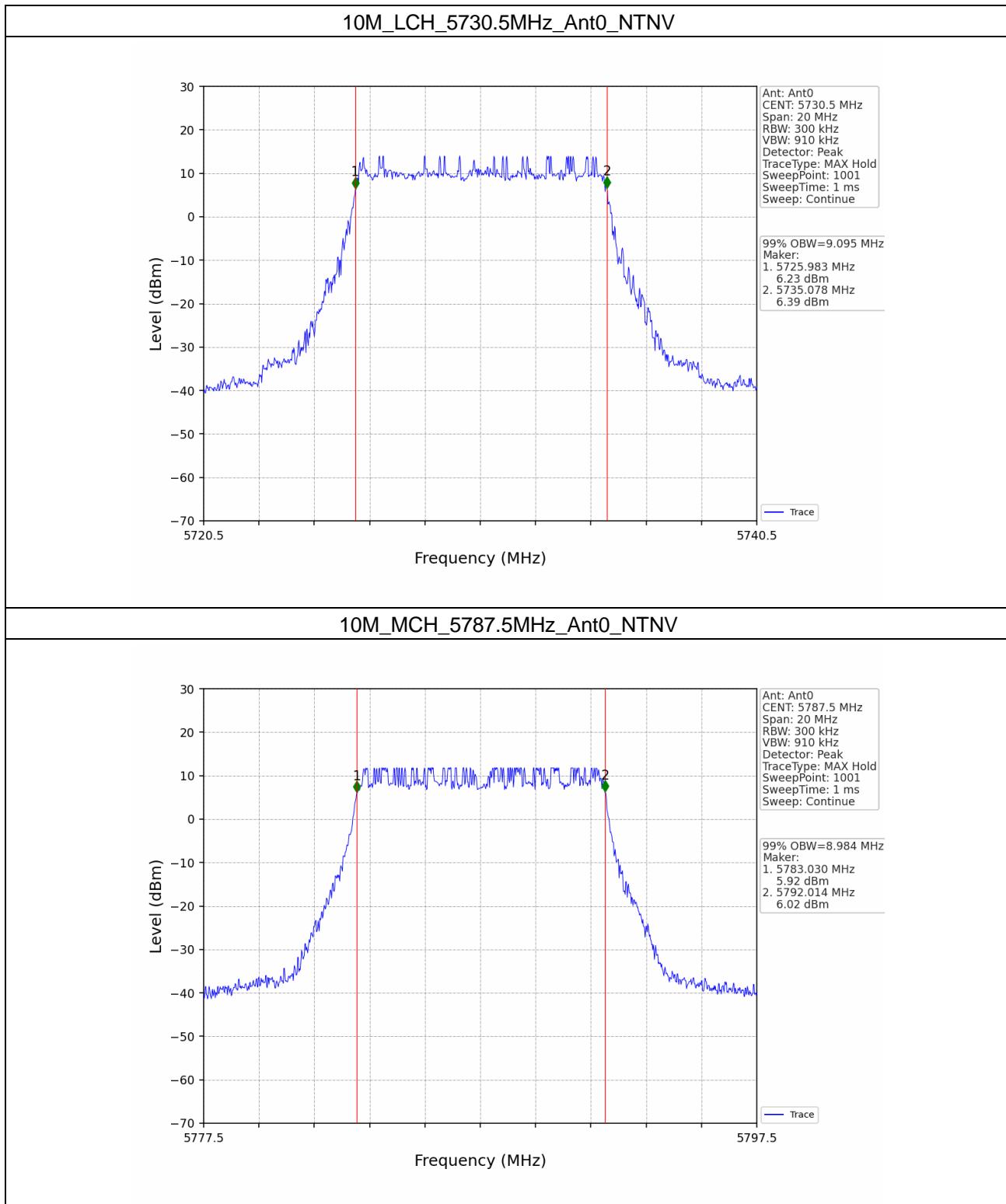
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3M_MCH_5784.5MHz_Ant0_NTNV**3M_HCH_5847.2MHz_Ant0_NTNV**

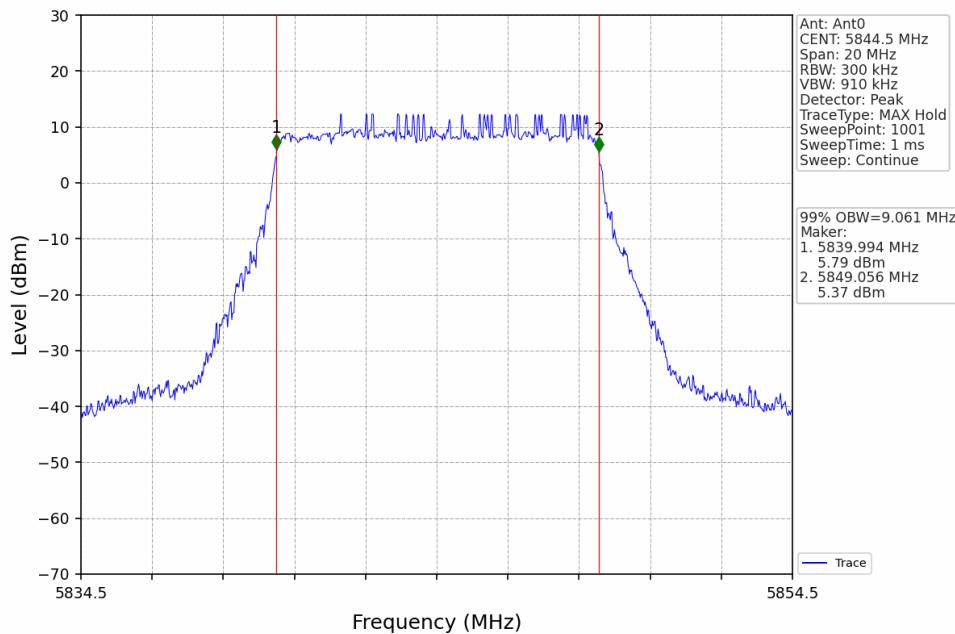
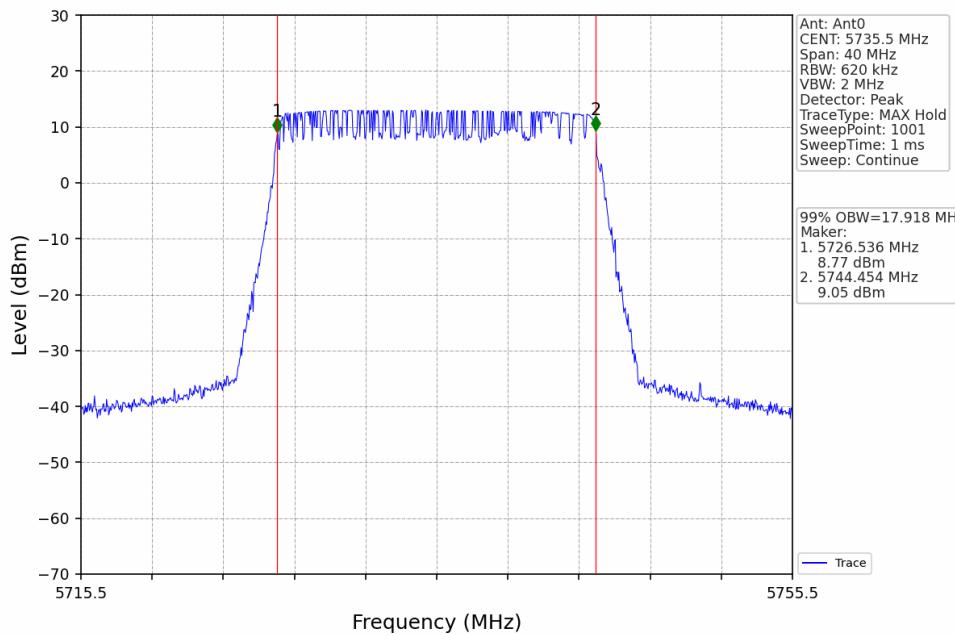
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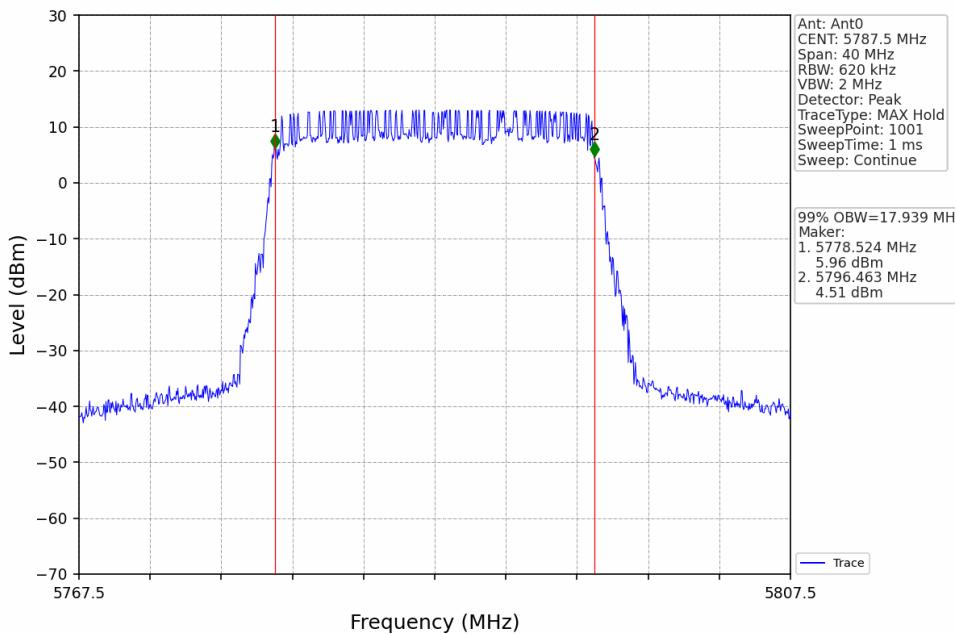
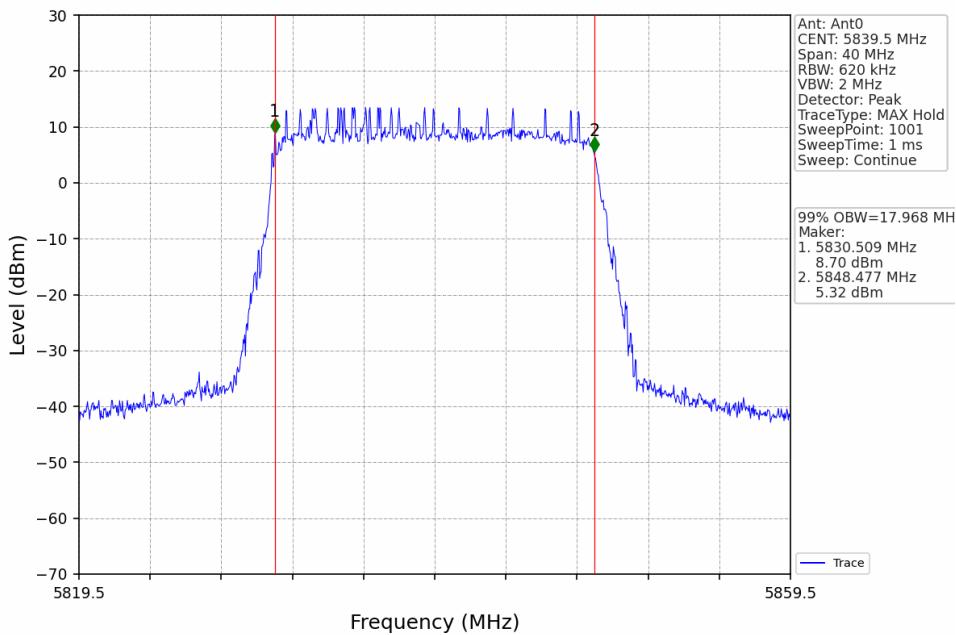
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10M_HCH_5844.5MHz_Ant0_NTNV**20M_LCH_5735.5MHz_Ant0_NTNV**

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20M_MCH_5787.5MHz_Ant0_NTNV**20M_HCH_5839.5MHz_Ant0_NTNV**

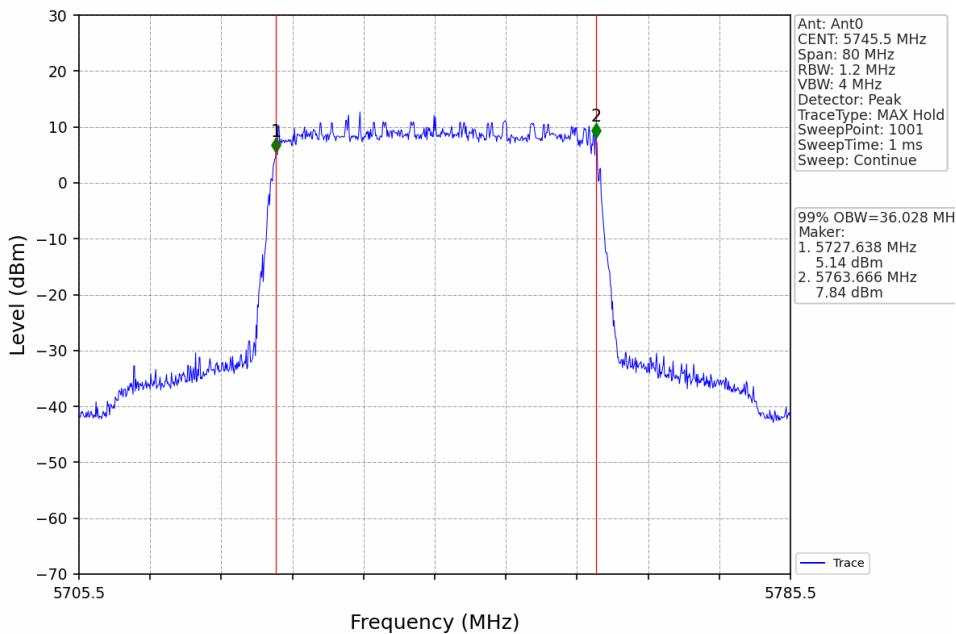
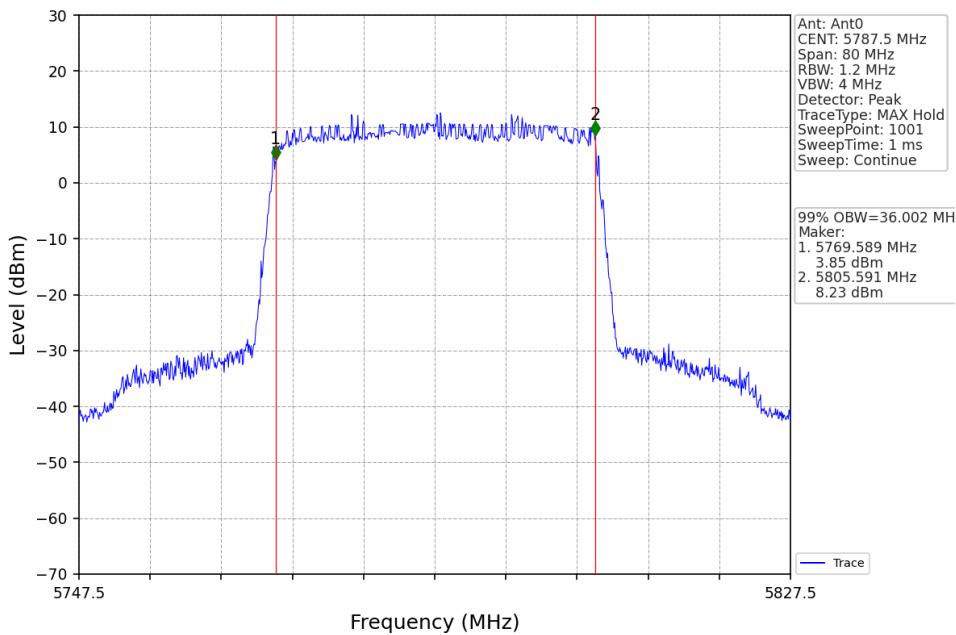
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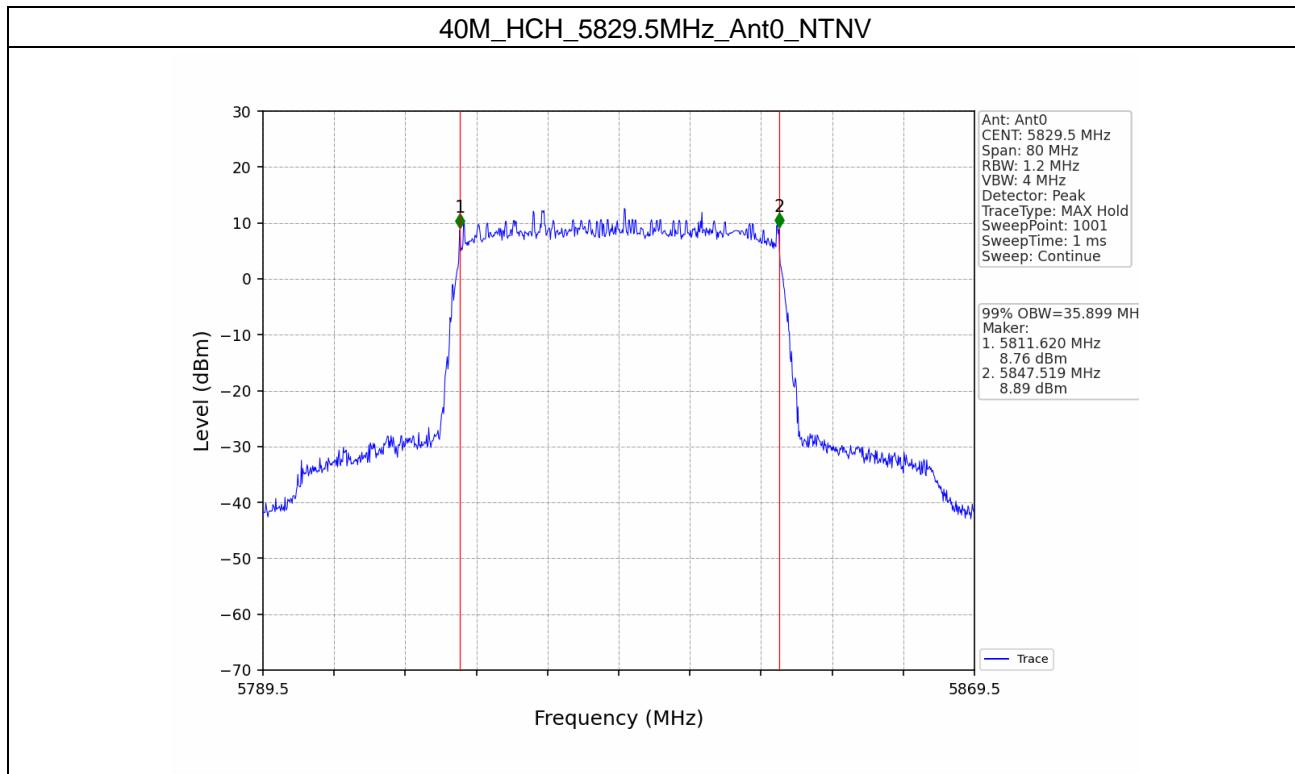
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40M_LCH_5745.5MHz_Ant0_NTNV**40M_MCH_5787.5MHz_Ant0_NTNV**

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2.2 6dB BW

2.2.1 Test Result

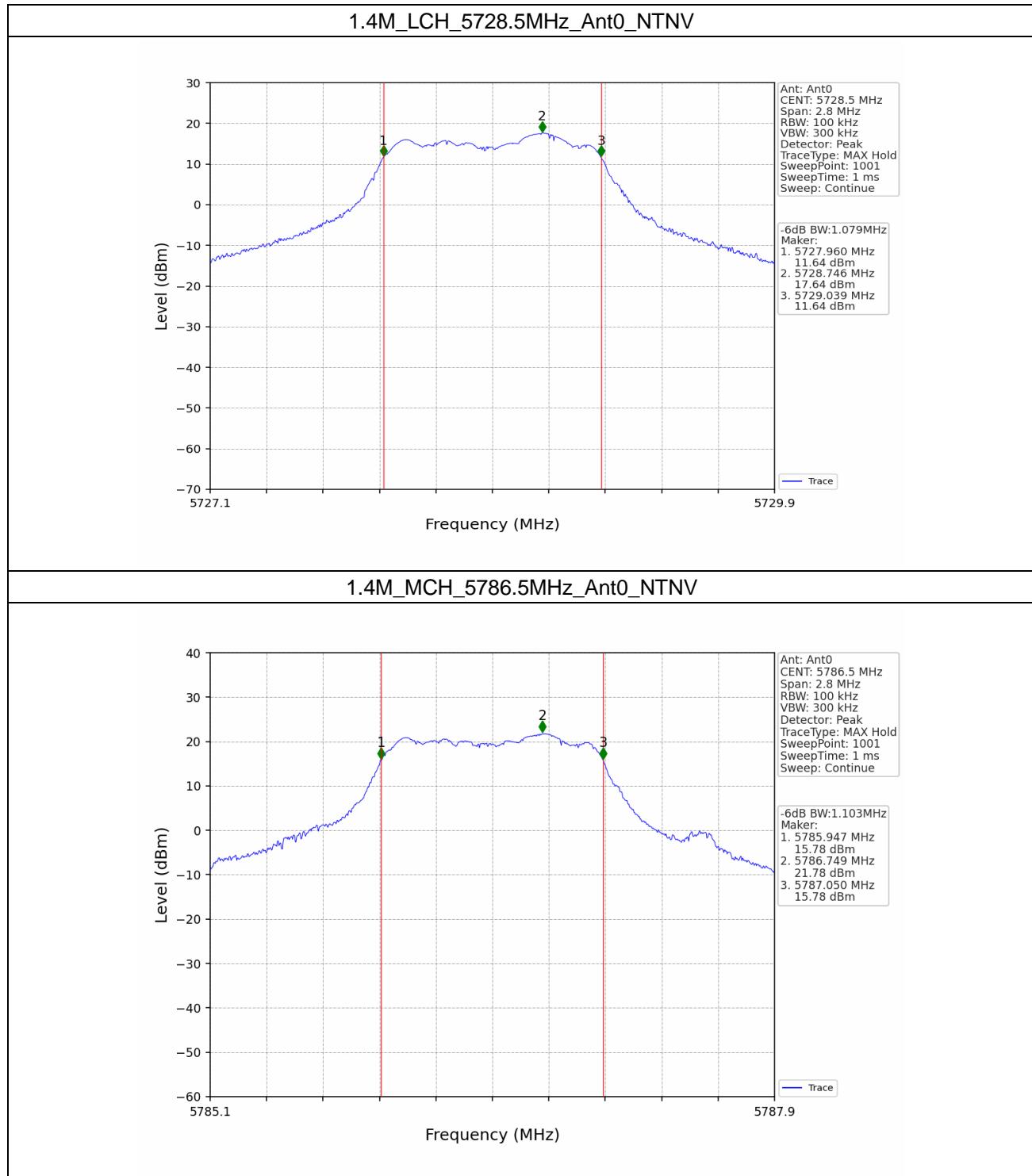
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	5728.5	0	1.079	>=0.5	Pass
		5786.5	0	1.103	>=0.5	Pass
		5848.12	0	1.108	>=0.5	Pass
3M	MIMO	5727.5	0	2.185	>=0.5	Pass
		5784.5	0	2.191	>=0.5	Pass
		5847.2	0	2.188	>=0.5	Pass
10M	MIMO	5730.5	0	9.028	>=0.5	Pass
		5787.5	0	9.024	>=0.5	Pass
		5844.5	0	9.035	>=0.5	Pass
20M	MIMO	5735.5	0	18.045	>=0.5	Pass
		5787.5	0	18.032	>=0.5	Pass
		5839.5	0	18.021	>=0.5	Pass
40M	MIMO	5745.5	0	35.957	>=0.5	Pass
		5787.5	0	35.996	>=0.5	Pass
		5829.5	0	35.989	>=0.5	Pass

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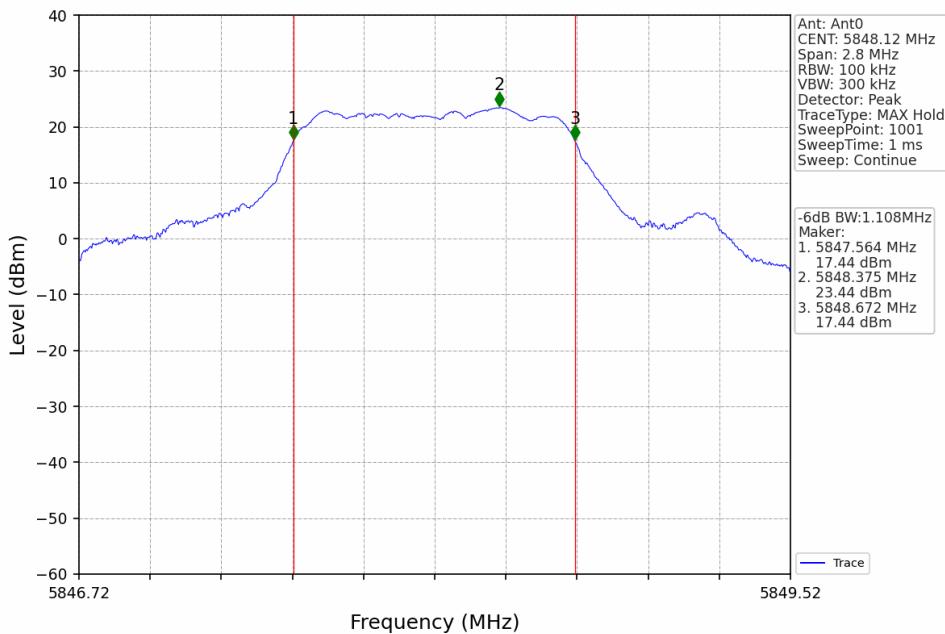
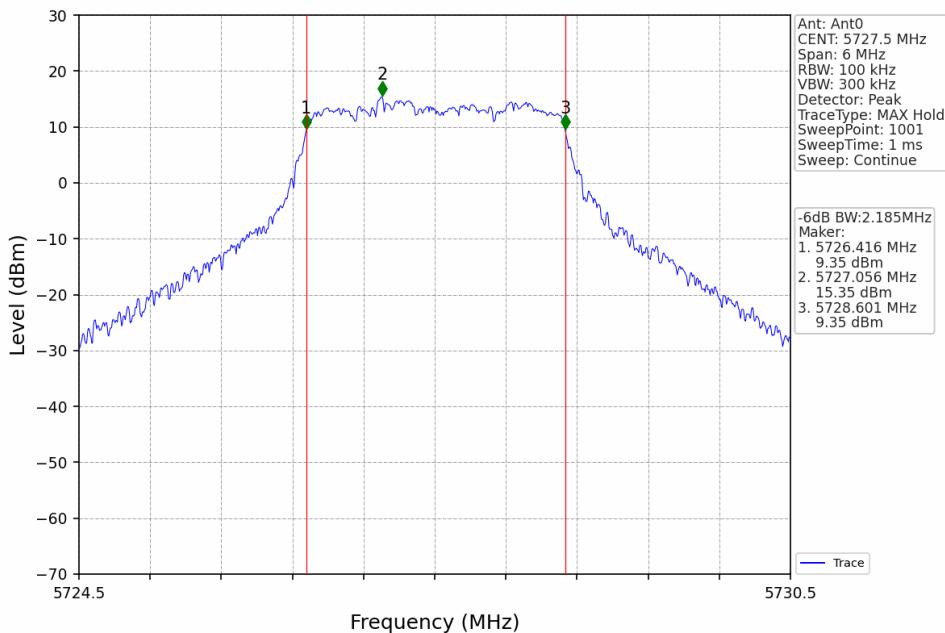


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2.2.2 Test Graph

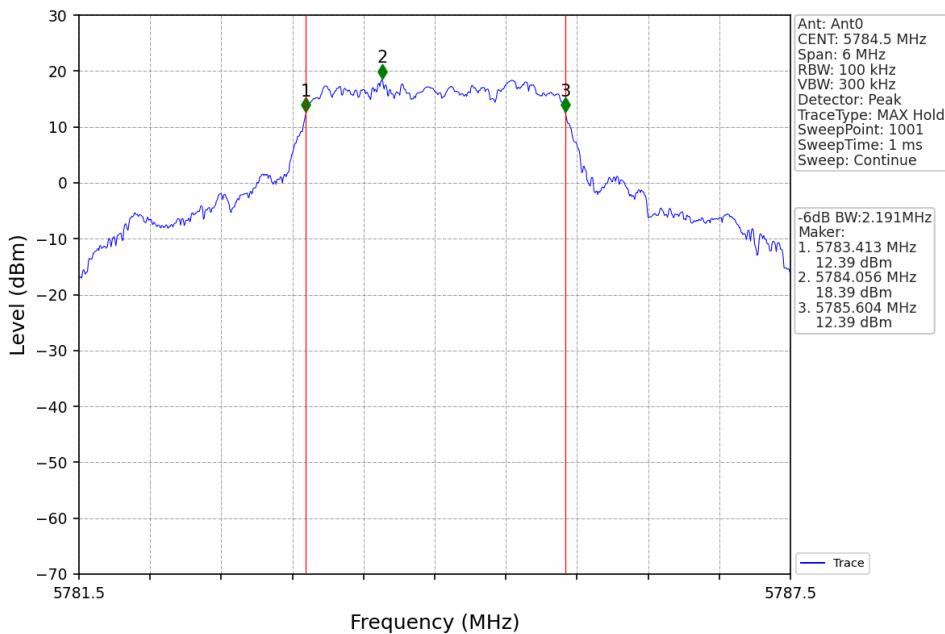
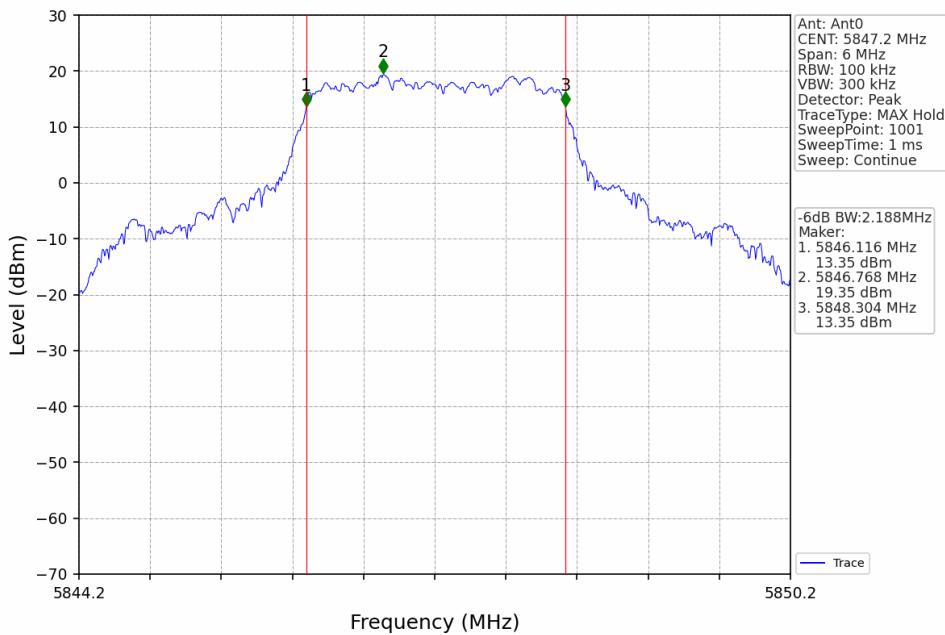
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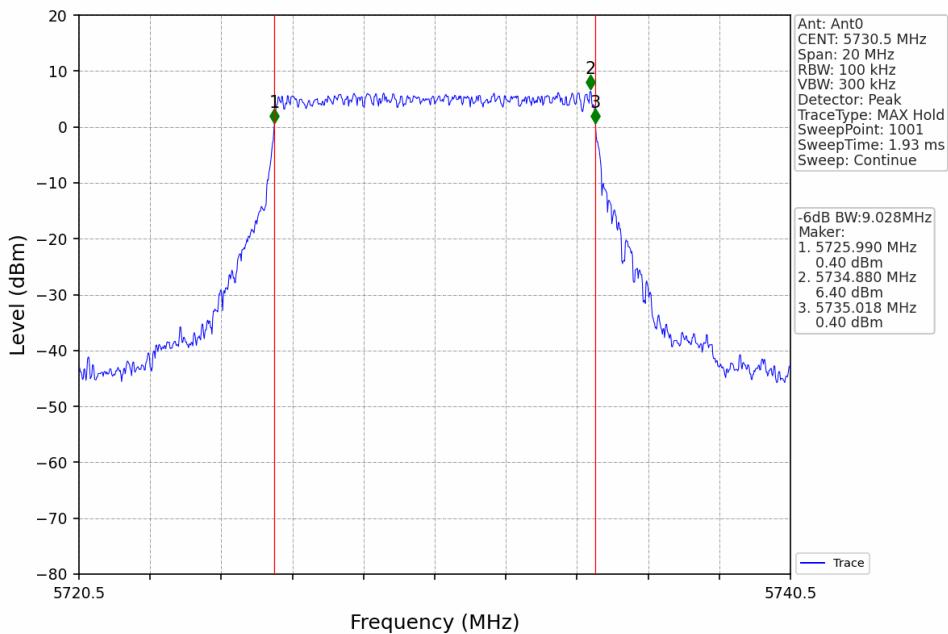
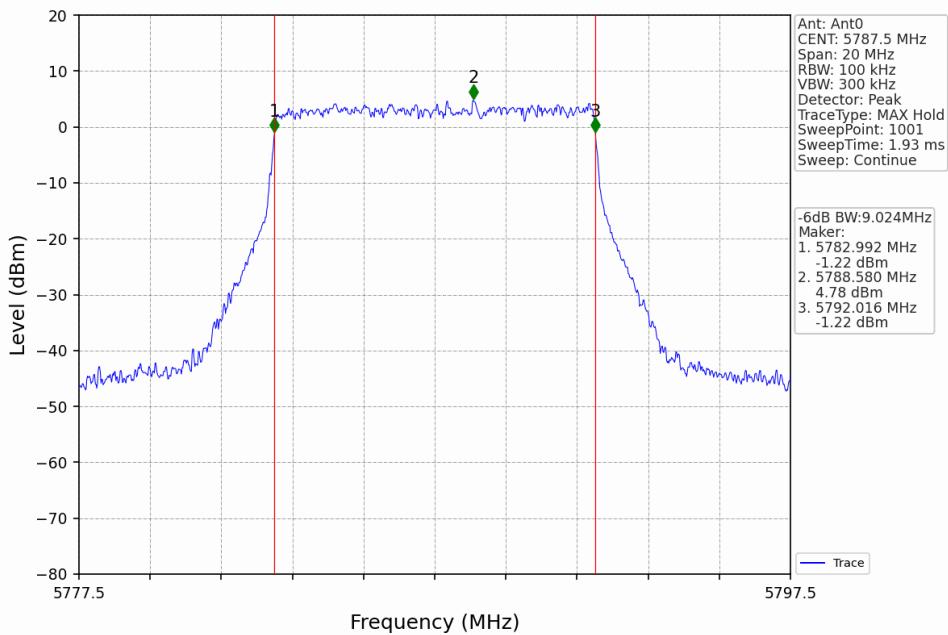
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1.4M_HCH_5848.12MHz_Ant0_NTNV**3M_LCH_5727.5MHz_Ant0_NTNV**

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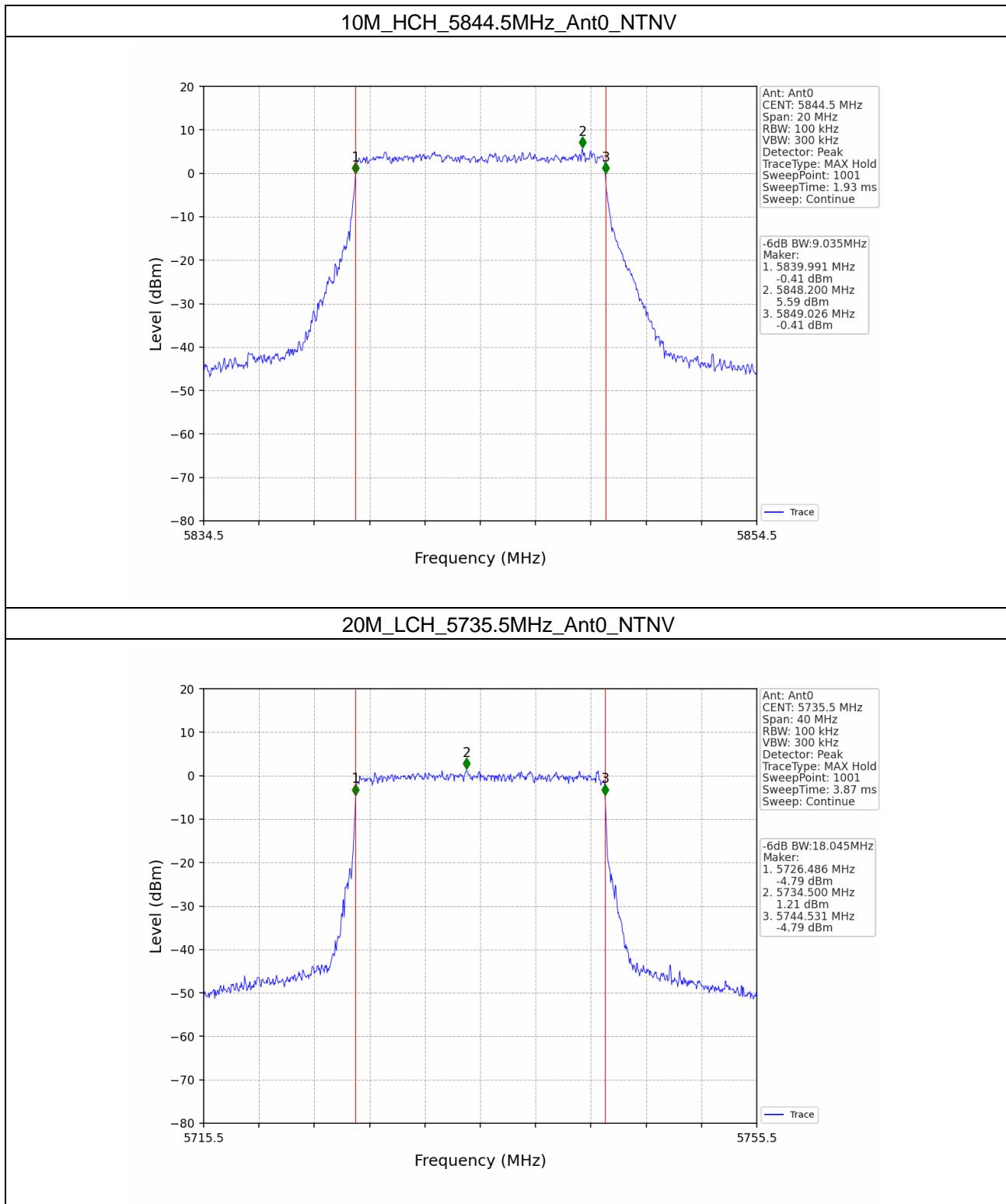
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3M_MCH_5784.5MHz_Ant0_NTNV**3M_HCH_5847.2MHz_Ant0_NTNV**

10M_LCH_5730.5MHz_Ant0_NTNV**10M_MCH_5787.5MHz_Ant0_NTNV**

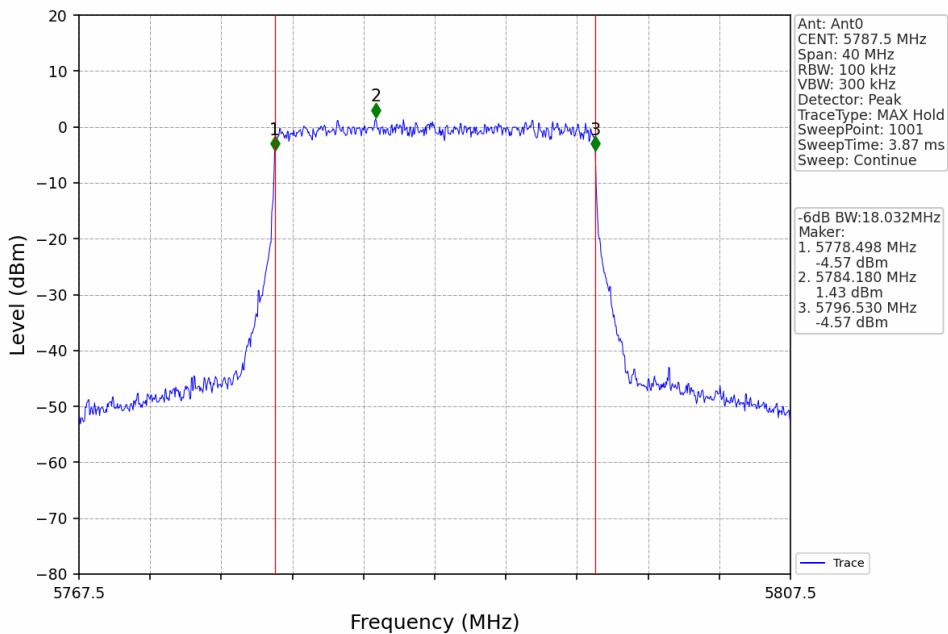
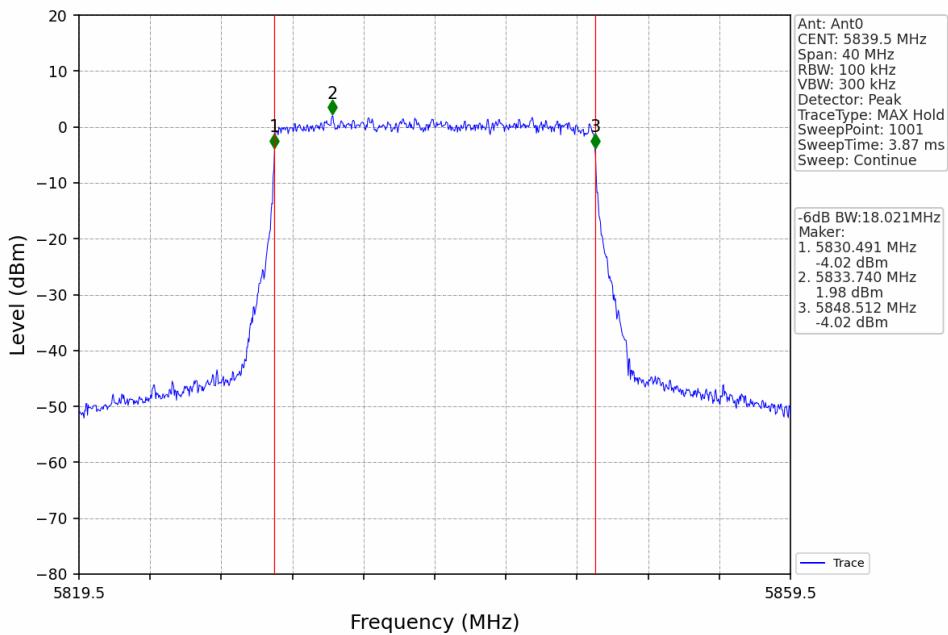
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20M_MCH_5787.5MHz_Ant0_NTNV**20M_HCH_5839.5MHz_Ant0_NTNV**

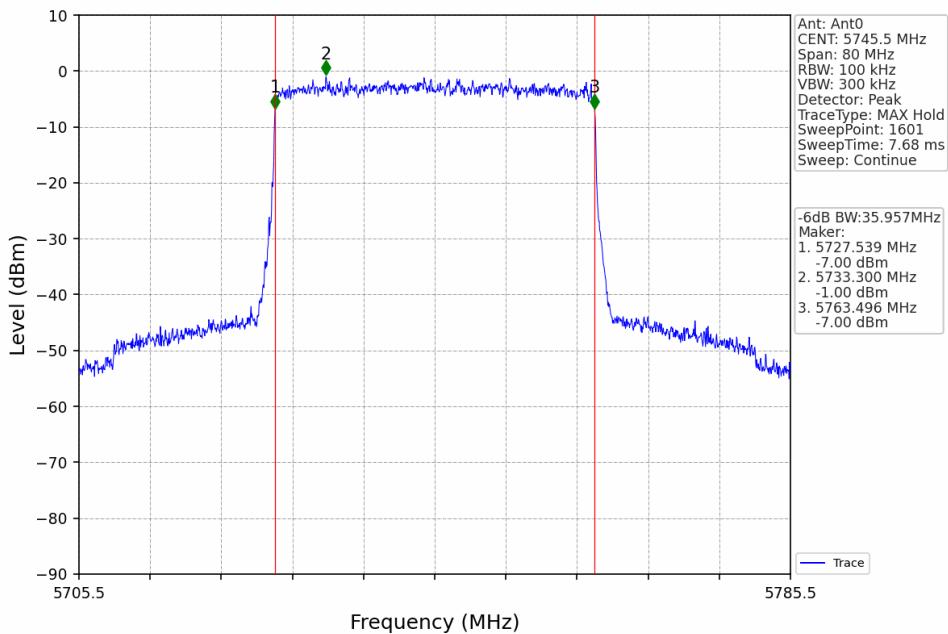
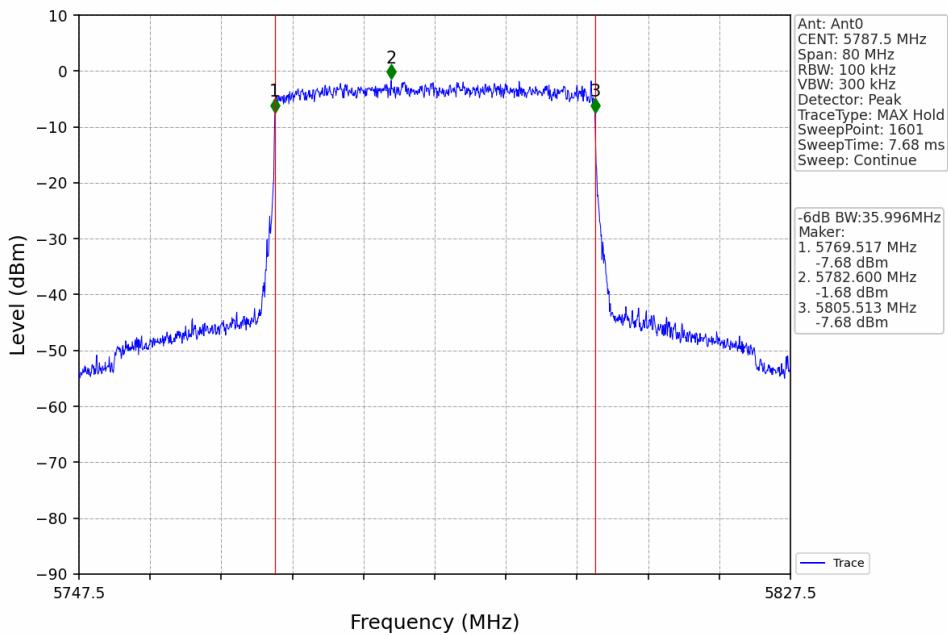
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40M_LCH_5745.5MHz_Ant0_NTNV**40M_MCH_5787.5MHz_Ant0_NTNV**

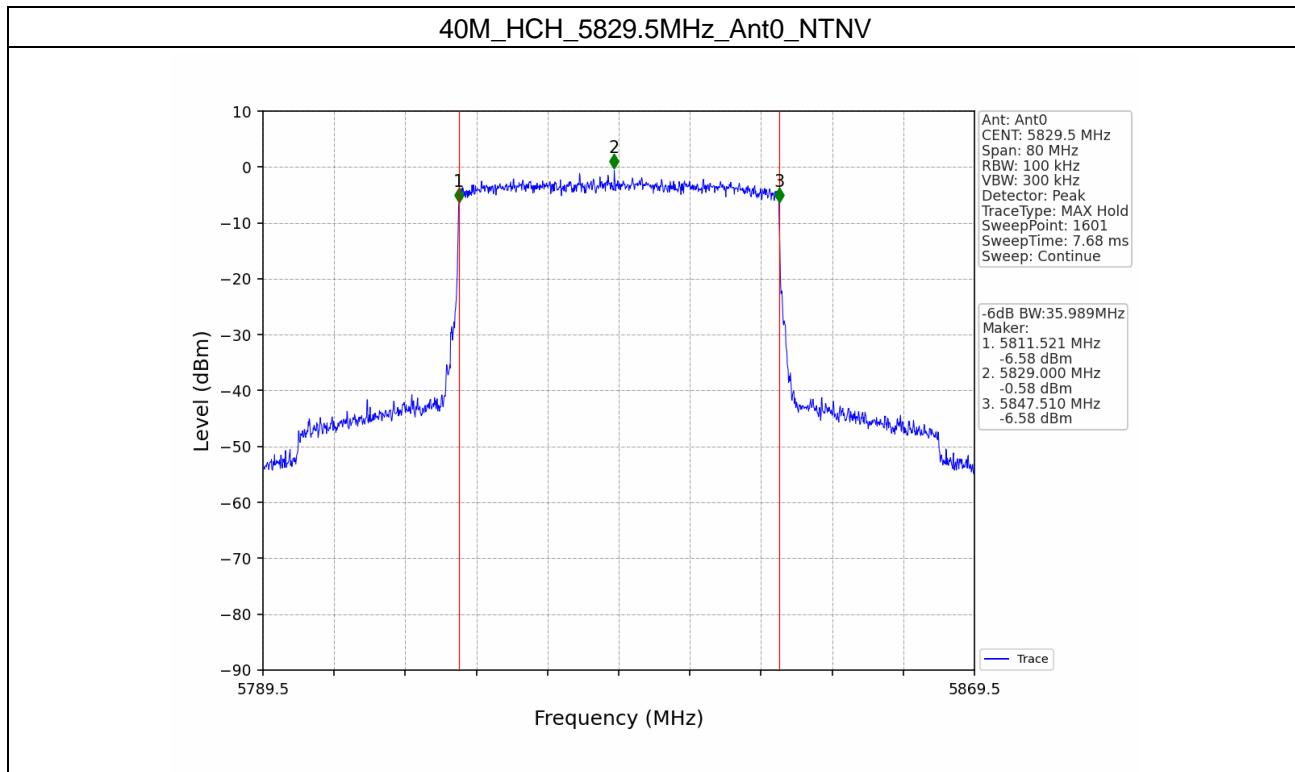
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	5728.5	23.80	24.01	26.92	<=28.99	Pass
		5786.5	23.20	23.83	26.54	<=28.99	Pass
		5848.12	23.34	23.05	26.21	<=28.99	Pass
3M	MIMO	5727.5	22.06	22.40	25.24	<=28.99	Pass
		5784.5	22.72	22.41	25.58	<=28.99	Pass
		5847.2	22.98	22.14	25.59	<=28.99	Pass
10M	MIMO	5730.5	13.62	13.98	16.81	<=28.99	Pass
		5787.5	13.60	14.14	16.89	<=28.99	Pass
		5844.5	14.11	14.11	17.12	<=28.99	Pass
20M	MIMO	5735.5	13.20	13.59	16.41	<=28.99	Pass
		5787.5	13.23	13.80	16.53	<=28.99	Pass
		5839.5	13.72	13.76	16.75	<=28.99	Pass
40M	MIMO	5745.5	13.52	13.79	16.67	<=28.99	Pass
		5787.5	13.12	13.71	16.44	<=28.99	Pass
		5829.5	13.72	13.81	16.78	<=28.99	Pass

Note1: Antenna Gain: Ant0: 3.5dBi; Ant3: 4dBi;
Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dBi
Array gain = $10 \log(N_{ANT})$, where NANT is the number of transmit antennas

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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	MIMO	Limit	
1.4M	MIMO	5728.5	21.47	21.56	24.41	<=28.99	Pass
		5786.5	21.93	22.68	25.26	<=28.99	Pass
		5848.12	21.99	21.41	24.58	<=28.99	Pass
3M	MIMO	5727.5	16.92	17.45	20.15	<=28.99	Pass
		5784.5	17.32	17.05	20.04	<=28.99	Pass
		5847.2	17.92	17.05	20.34	<=28.99	Pass
10M	MIMO	5730.5	2.22	2.62	5.18	<=28.99	Pass
		5787.5	1.95	2.66	5.31	<=28.99	Pass
		5844.5	2.62	2.60	5.49	<=28.99	Pass
20M	MIMO	5735.5	-1.22	-0.88	1.79	<=28.99	Pass
		5787.5	-1.34	-0.55	1.96	<=28.99	Pass
		5839.5	-0.87	-0.62	2.05	<=28.99	Pass
40M	MIMO	5745.5	-3.95	-3.65	-0.90	<=28.99	Pass
		5787.5	-4.28	-3.77	-1.17	<=28.99	Pass
		5829.5	-3.84	-3.56	-0.84	<=28.99	Pass

Note1: Antenna Gain: Ant0: 3.5dBi; Ant3: 4dBi;
 Note2: Directional gain (dBi) = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dB
 Array gain = $10 \log(N_{ANT})$, where N_{ANT} is the number of transmit antennas

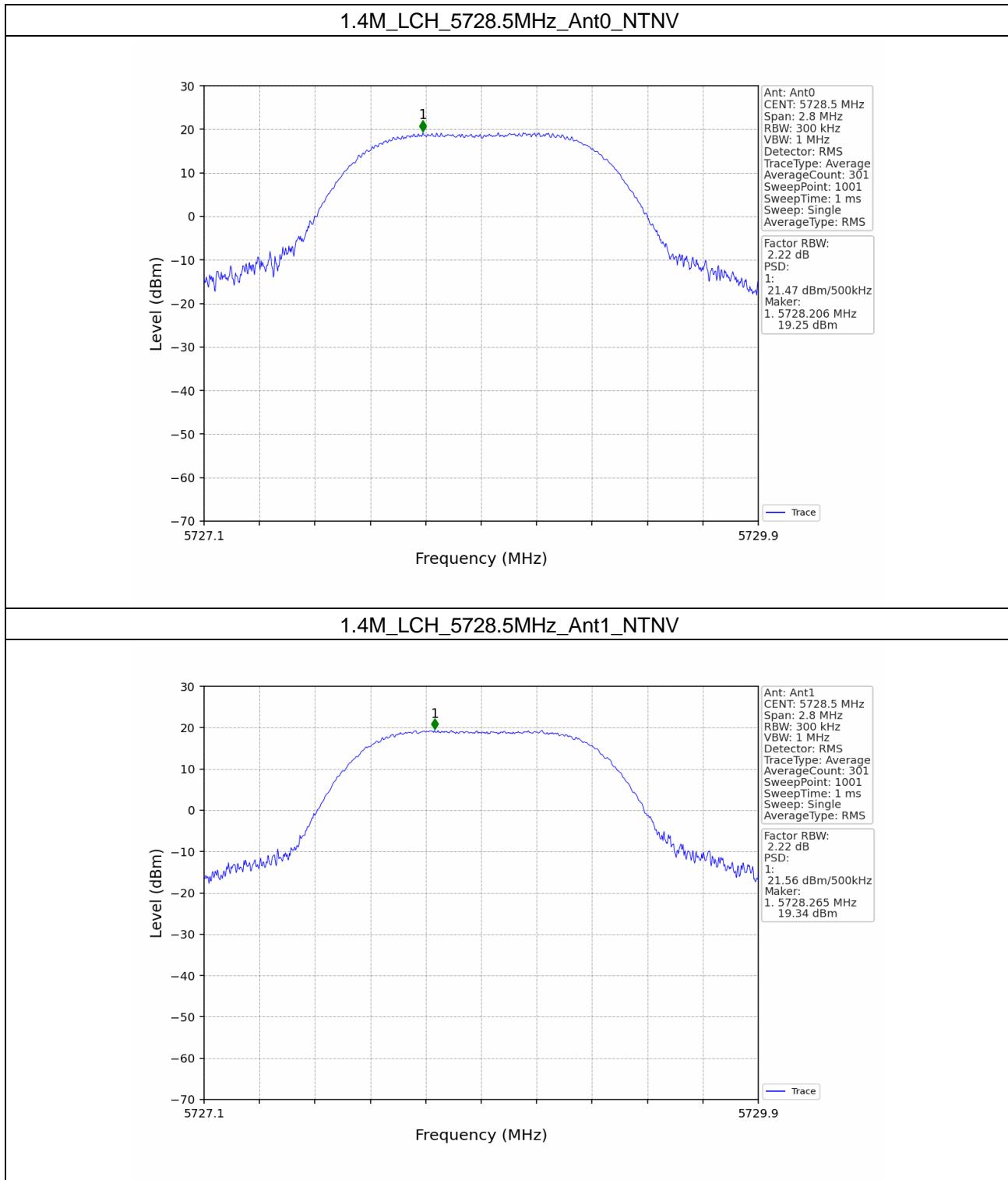
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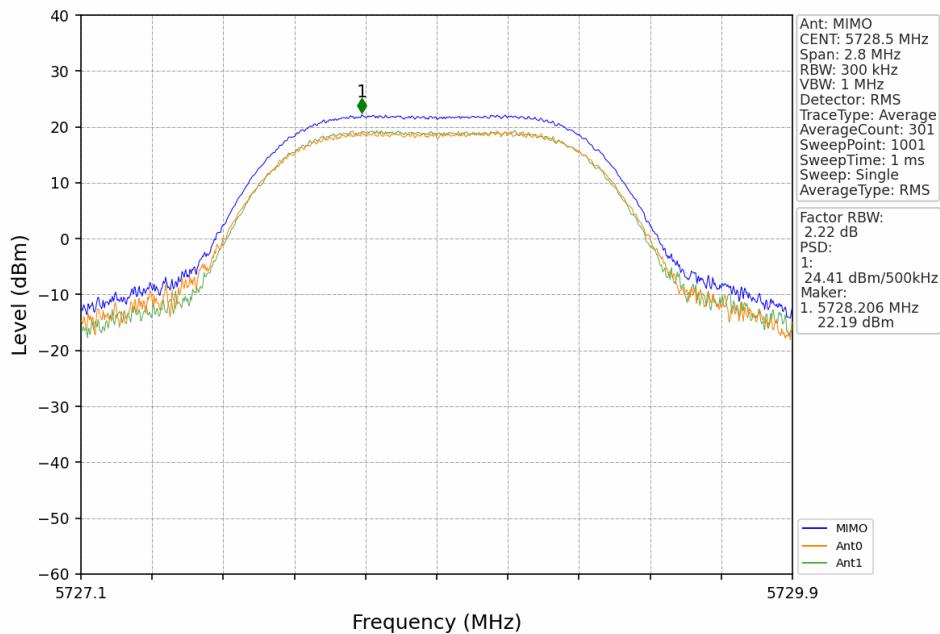
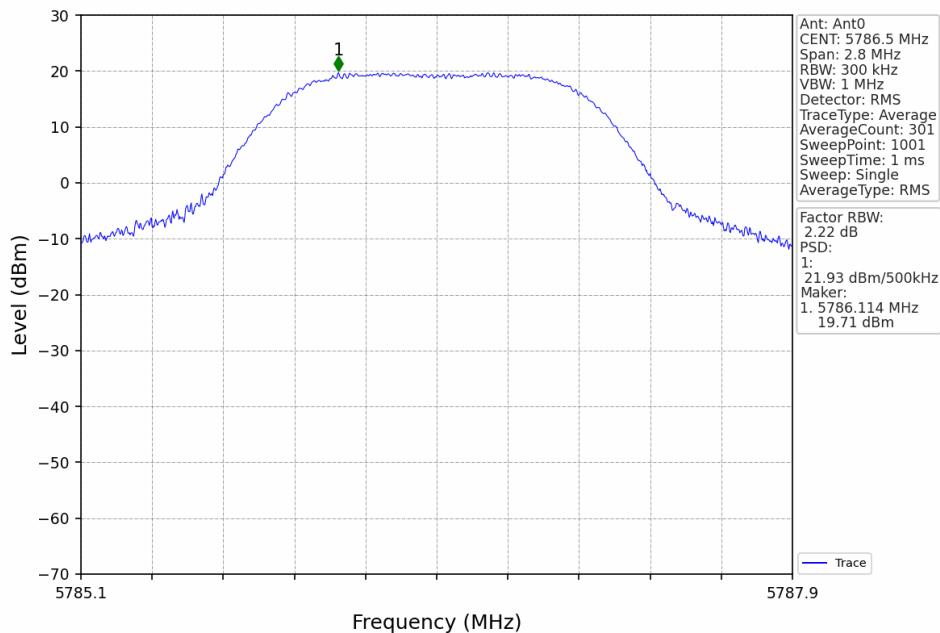


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4.1.2 Test Graph

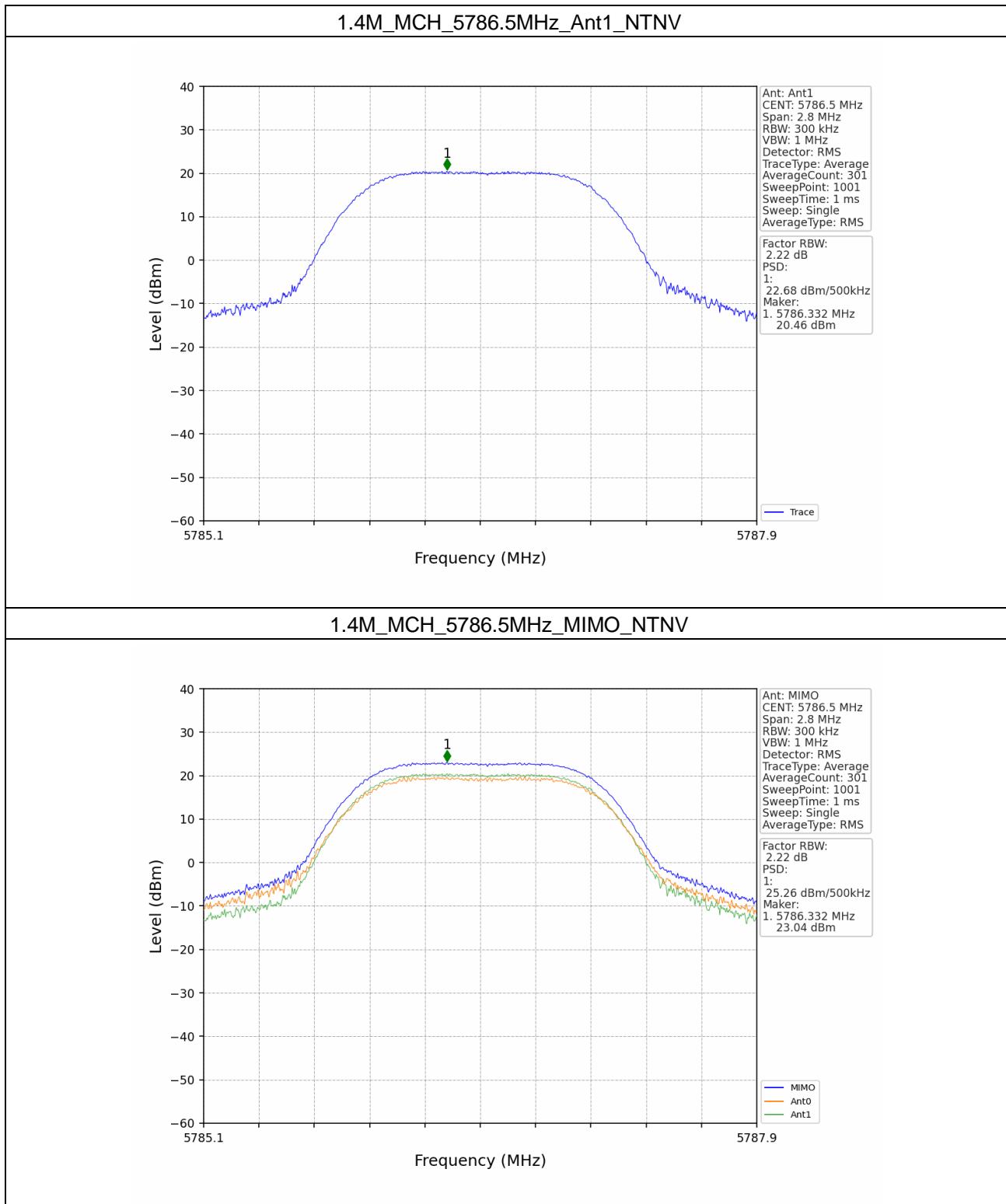
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1.4M_LCH_5728.5MHz_MIMO_NTNV**1.4M_MCH_5786.5MHz_Ant0_NTNV**

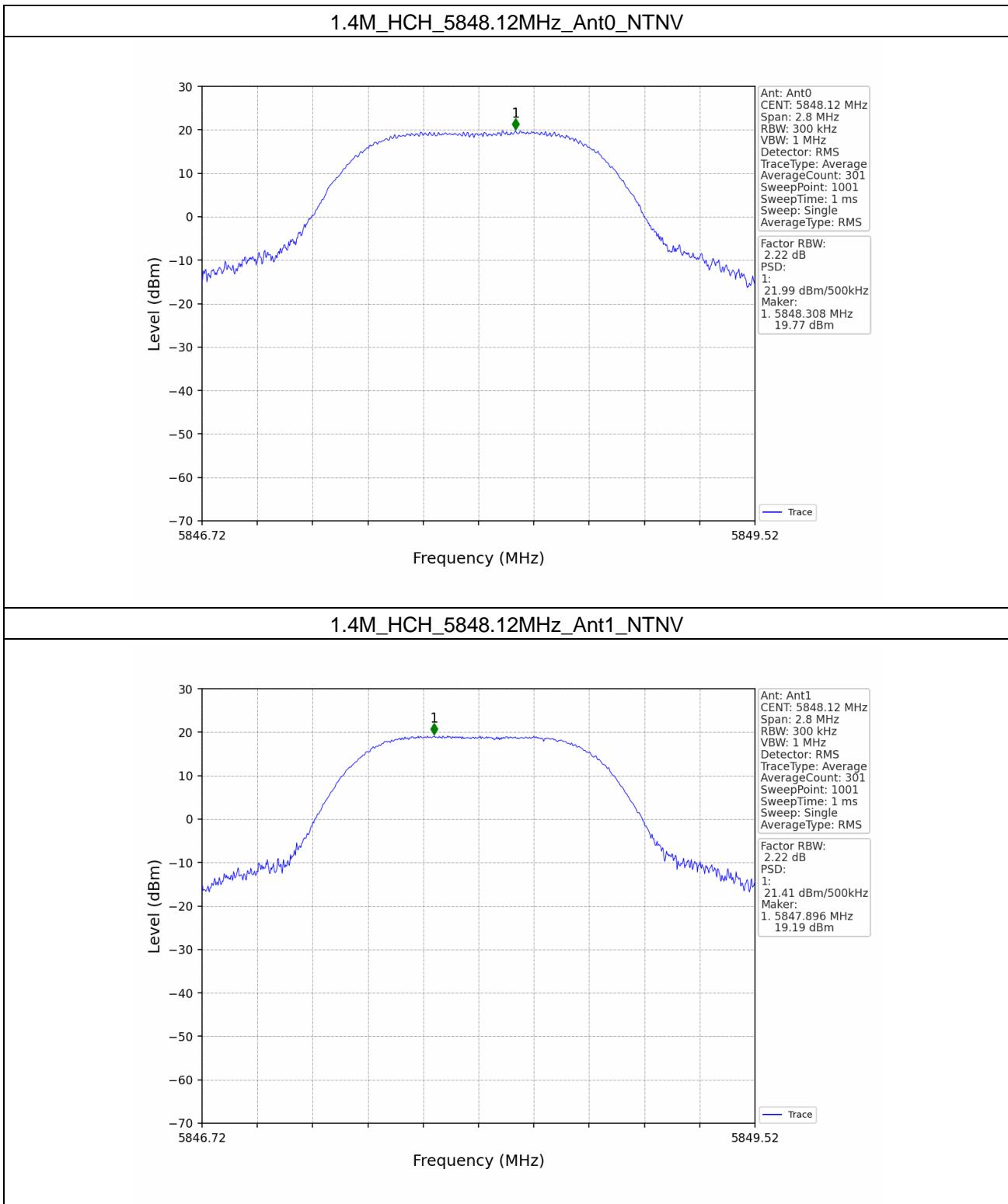
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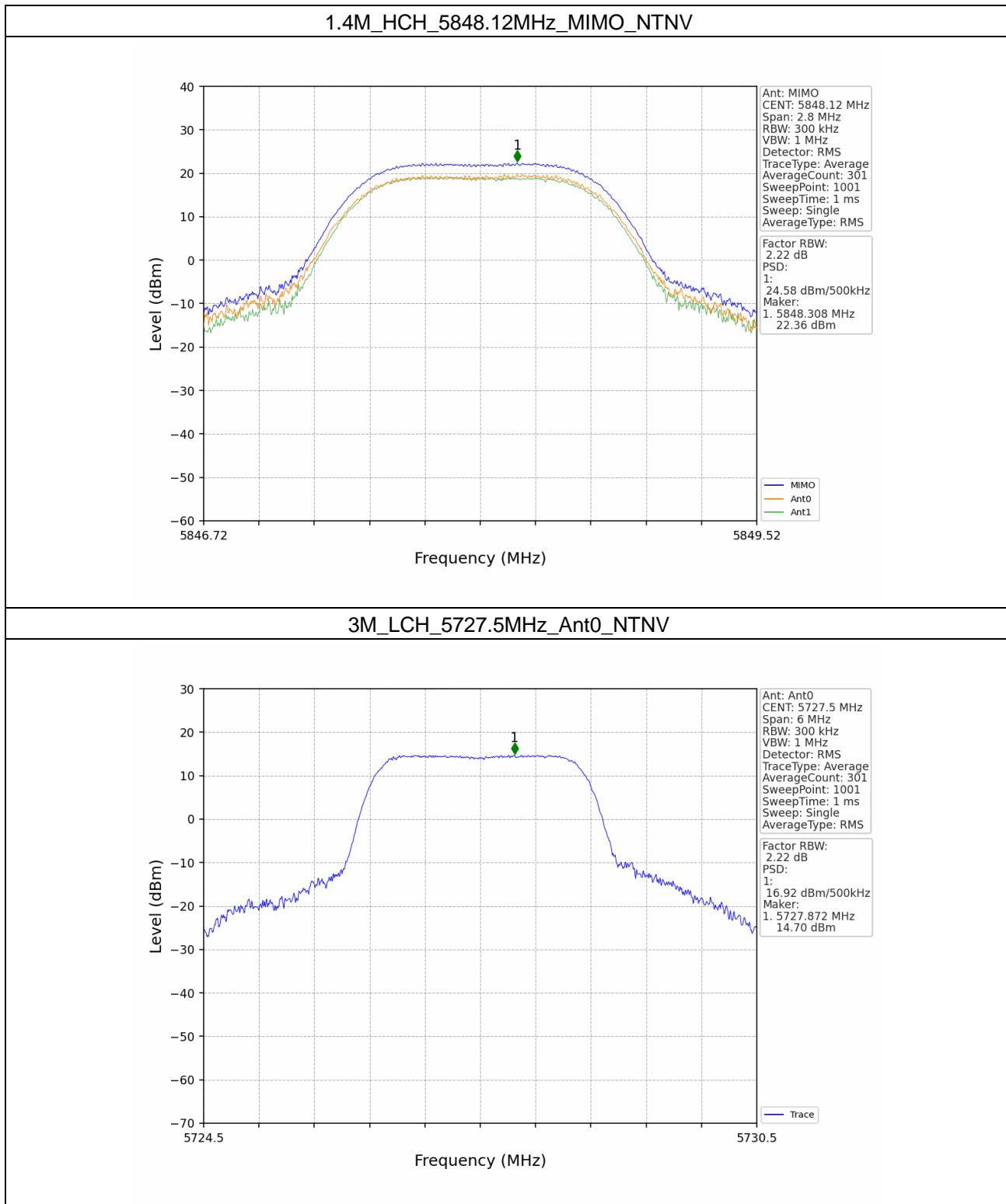
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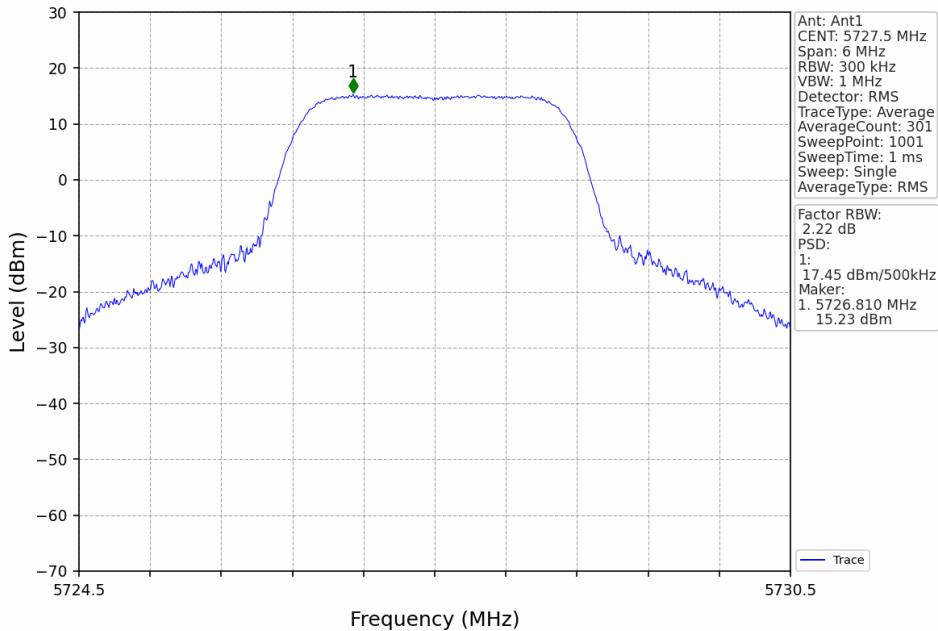
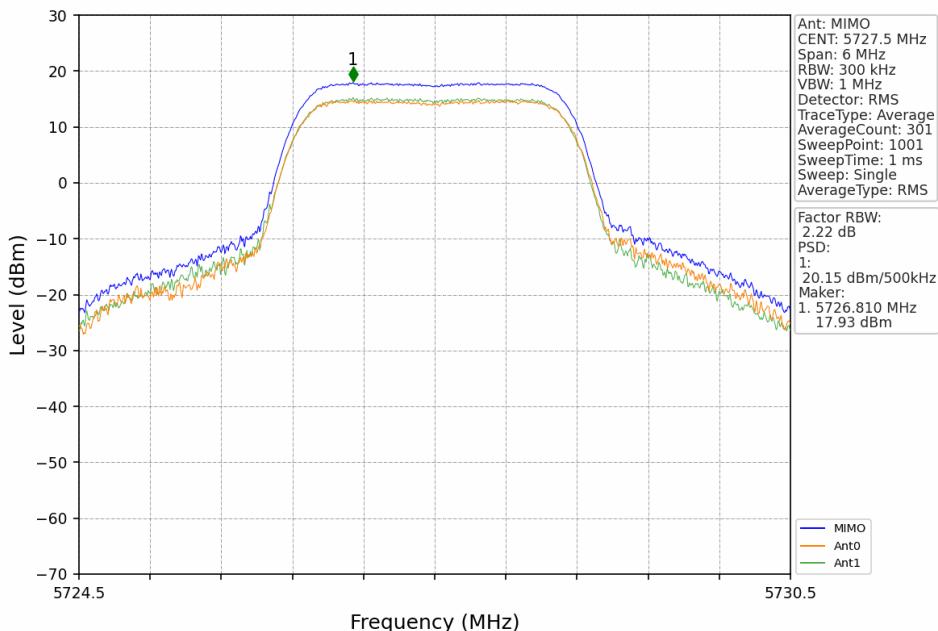


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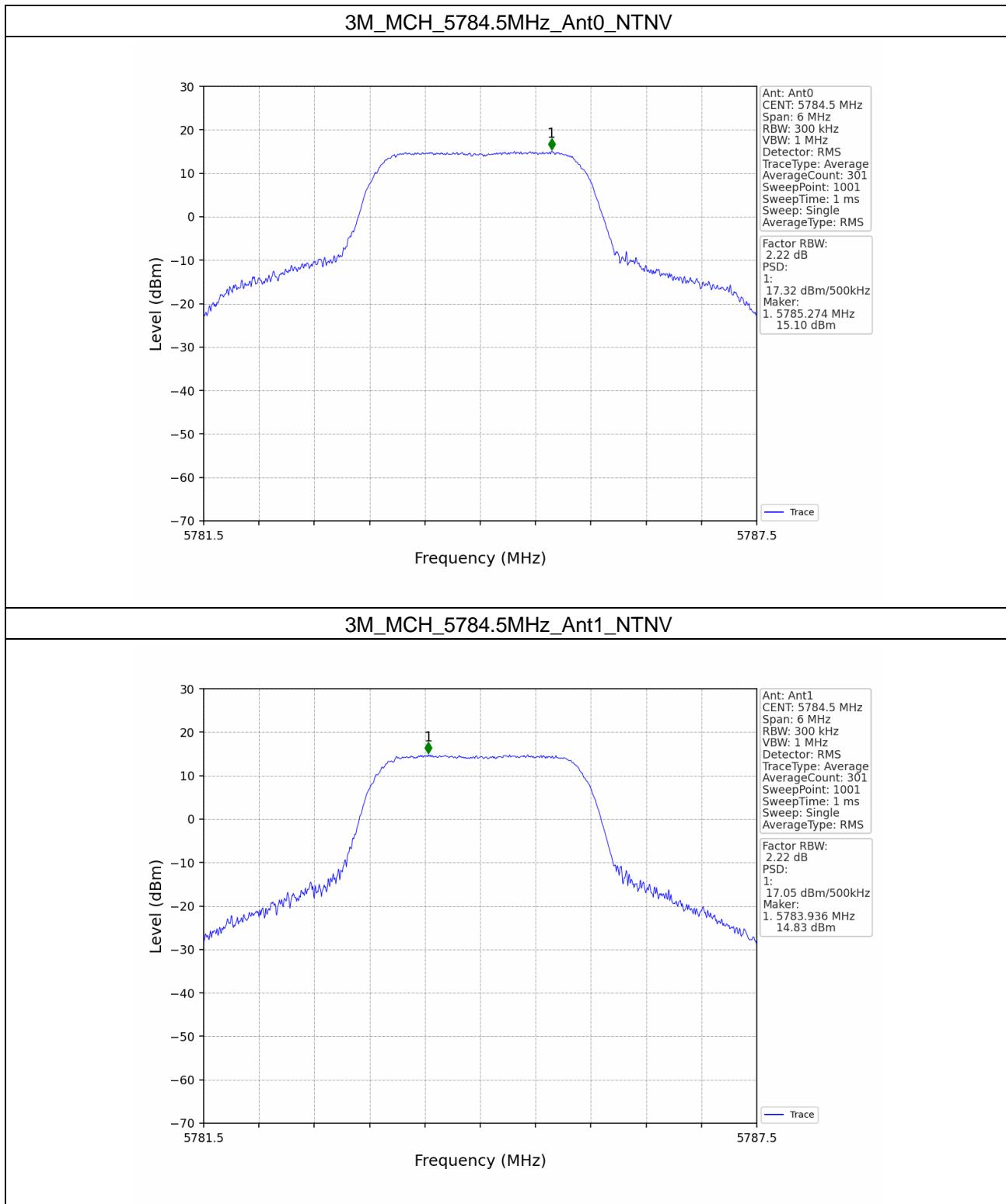


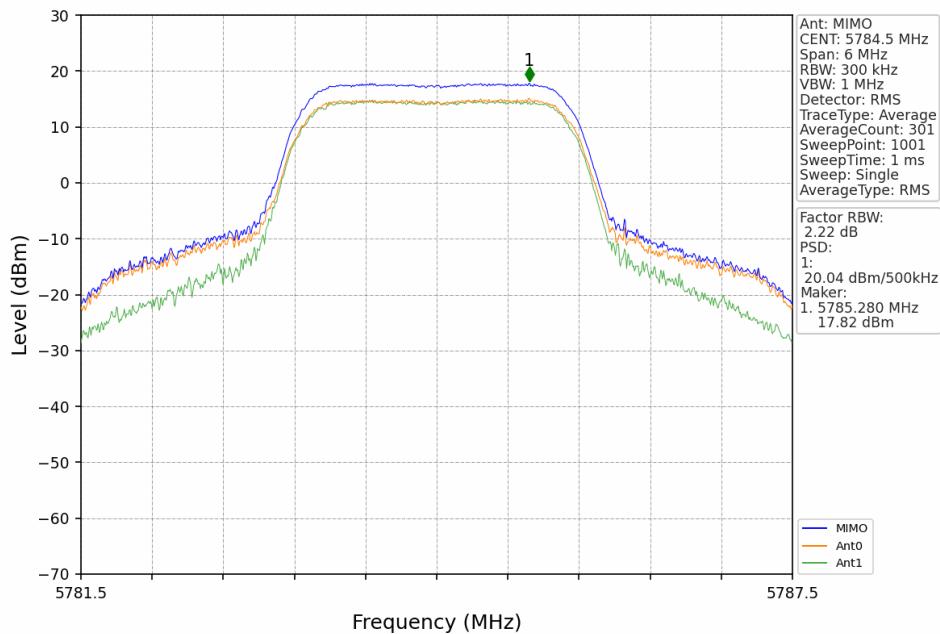
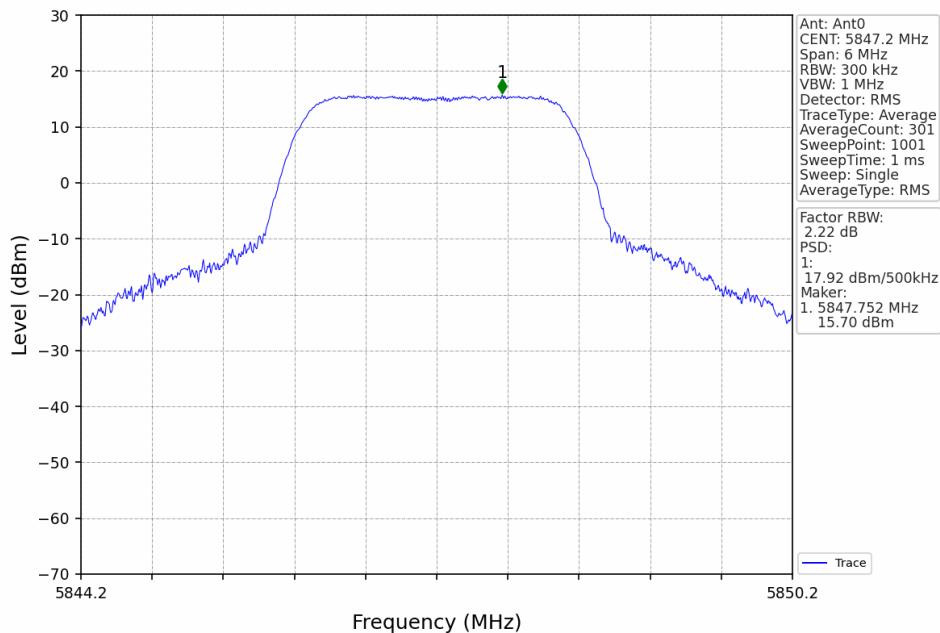


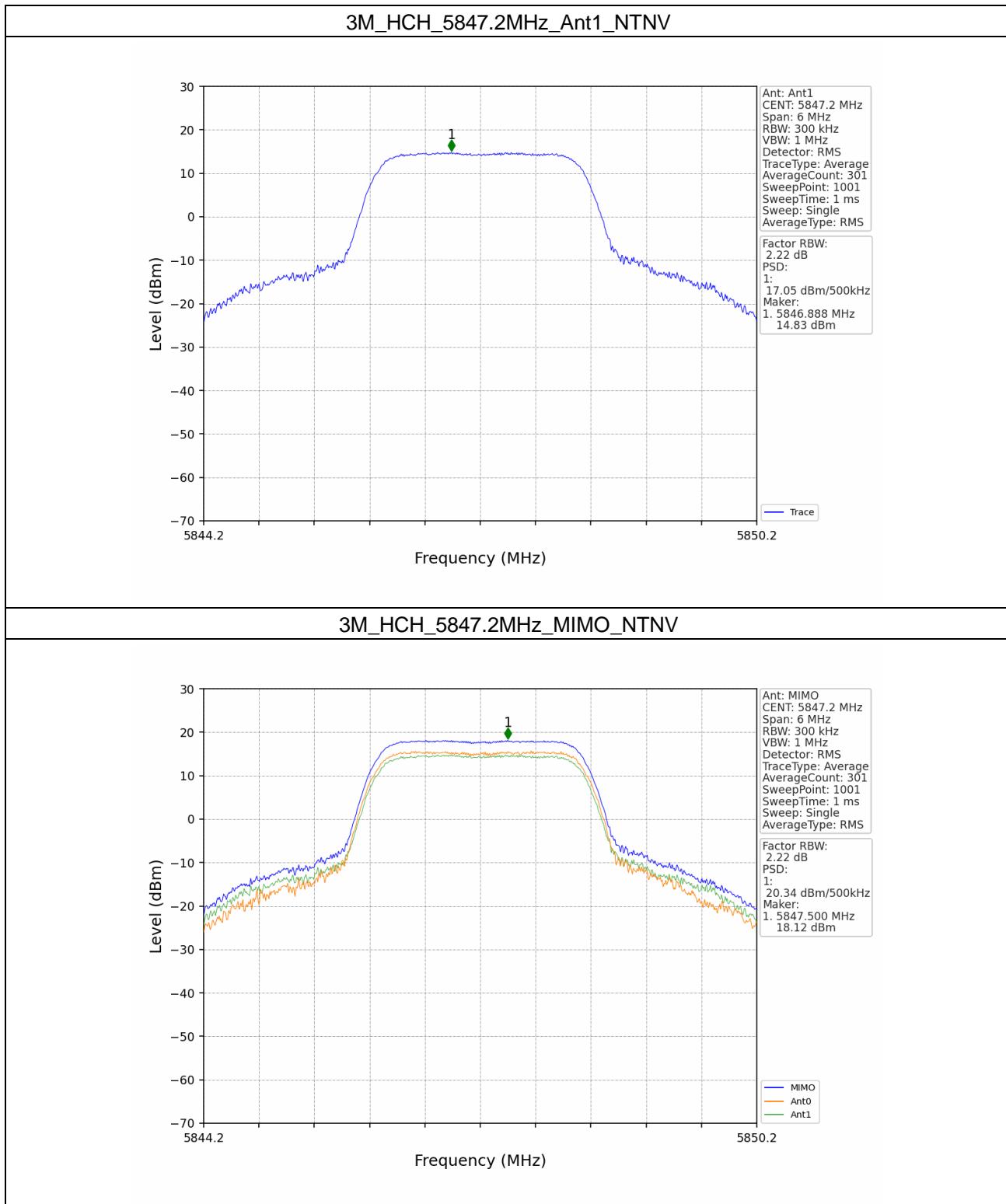
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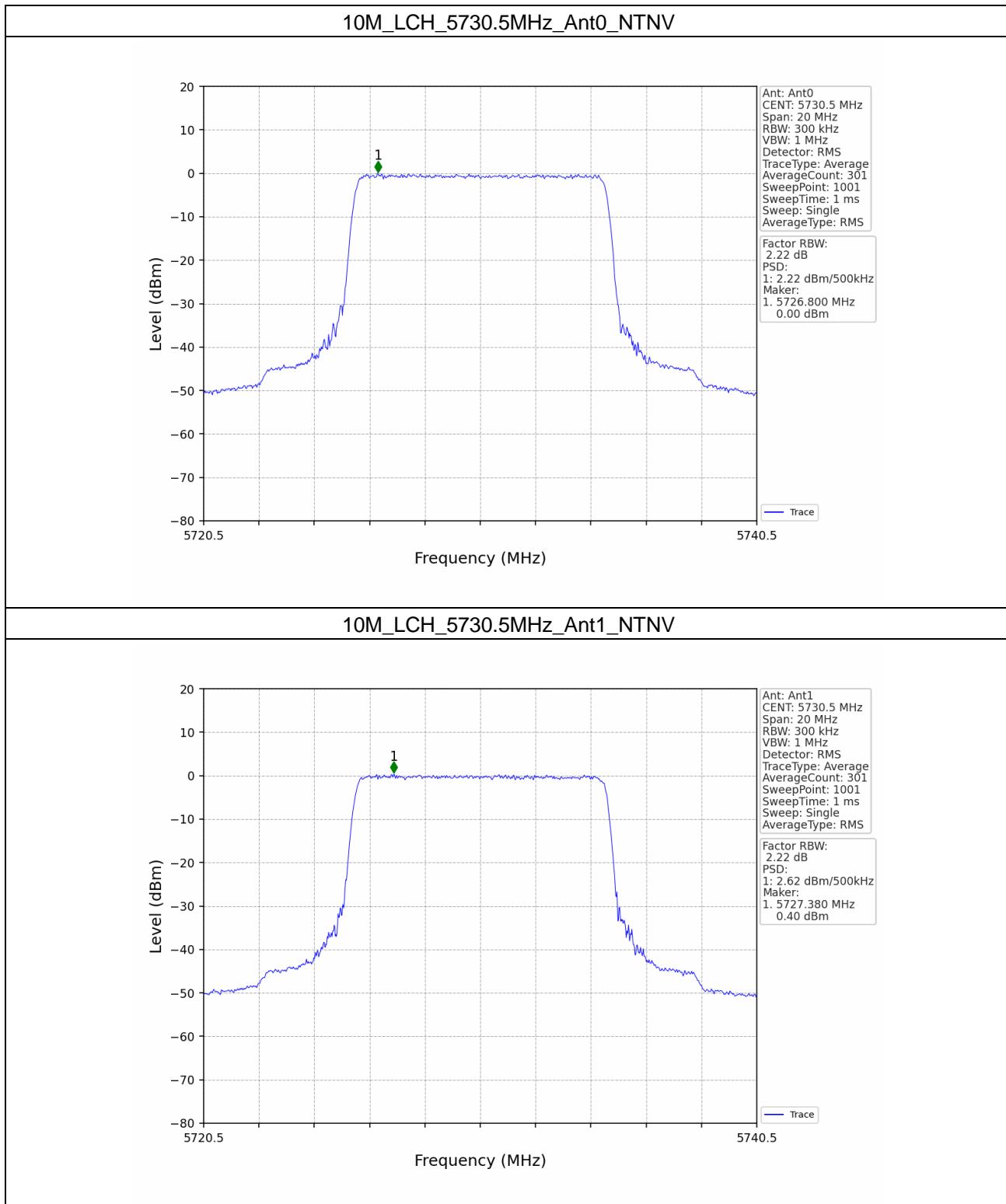
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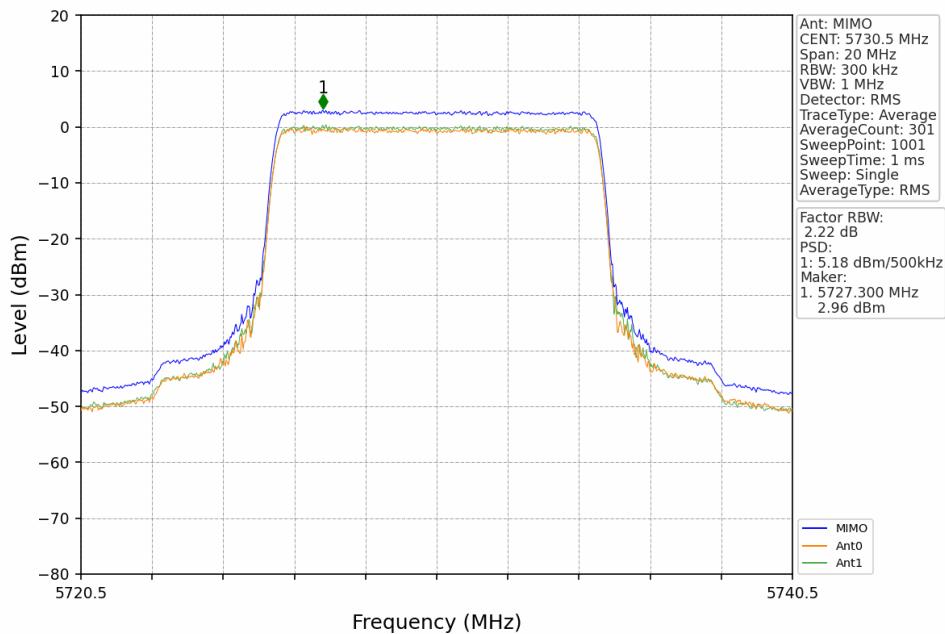
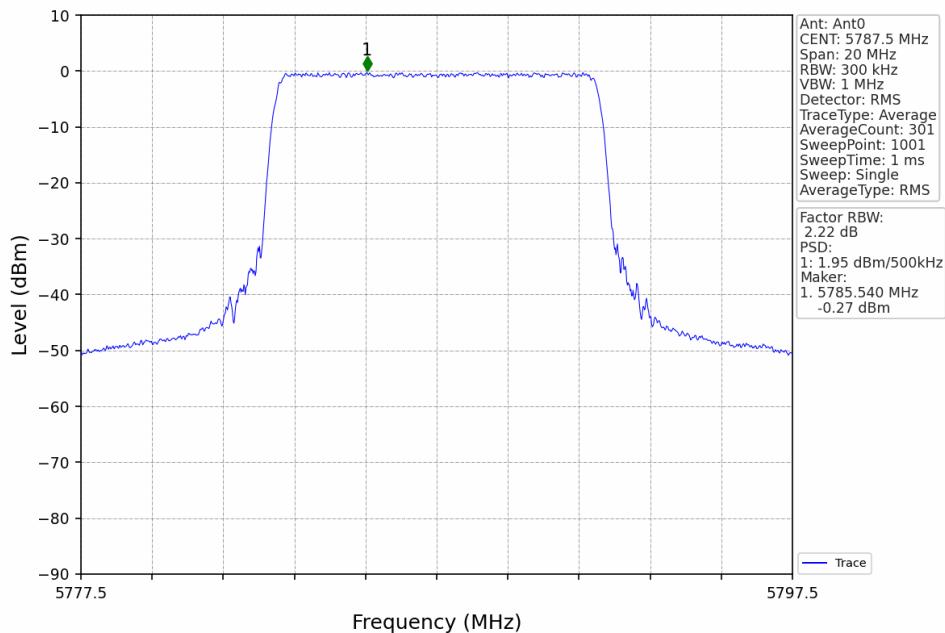
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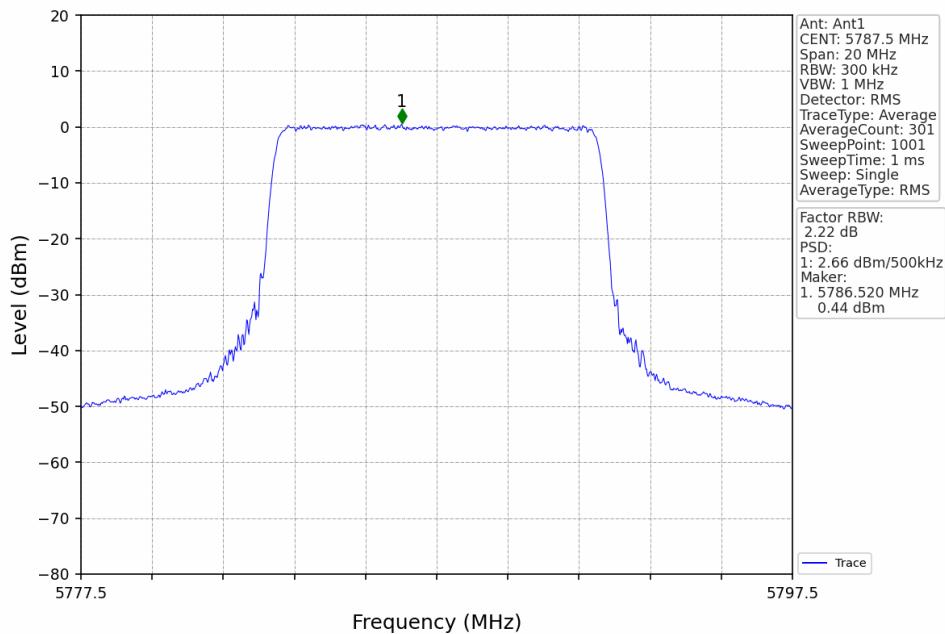
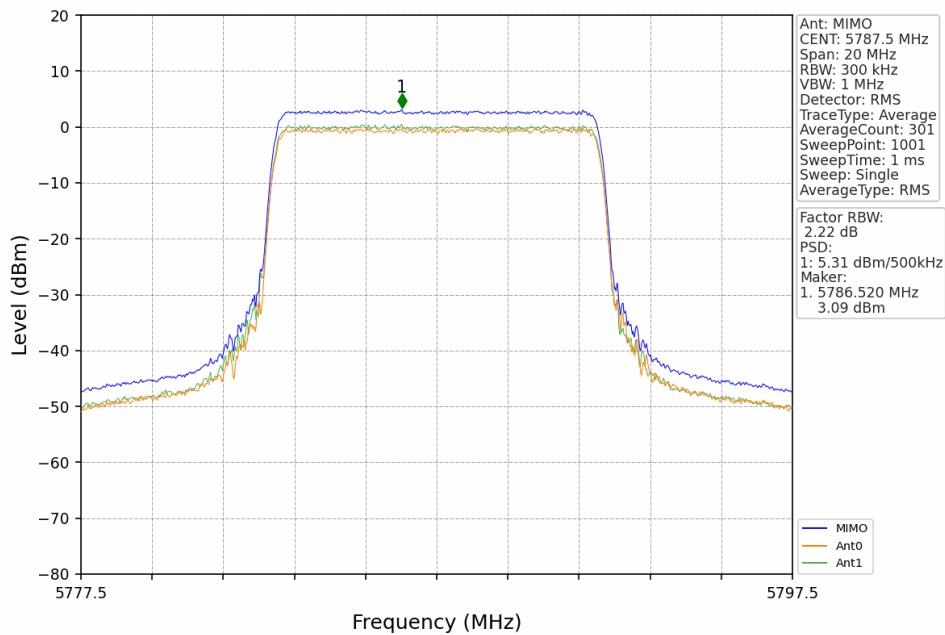


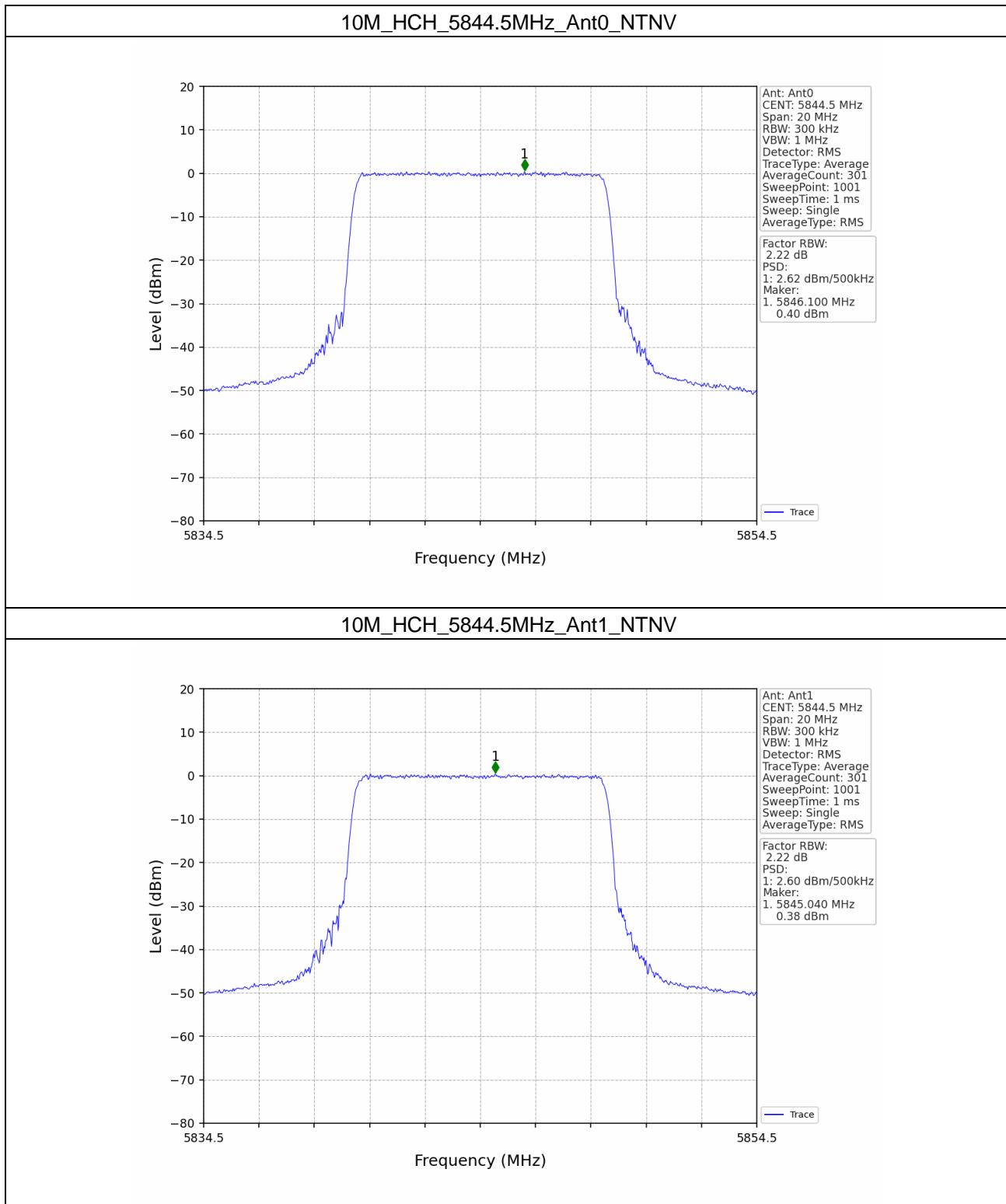
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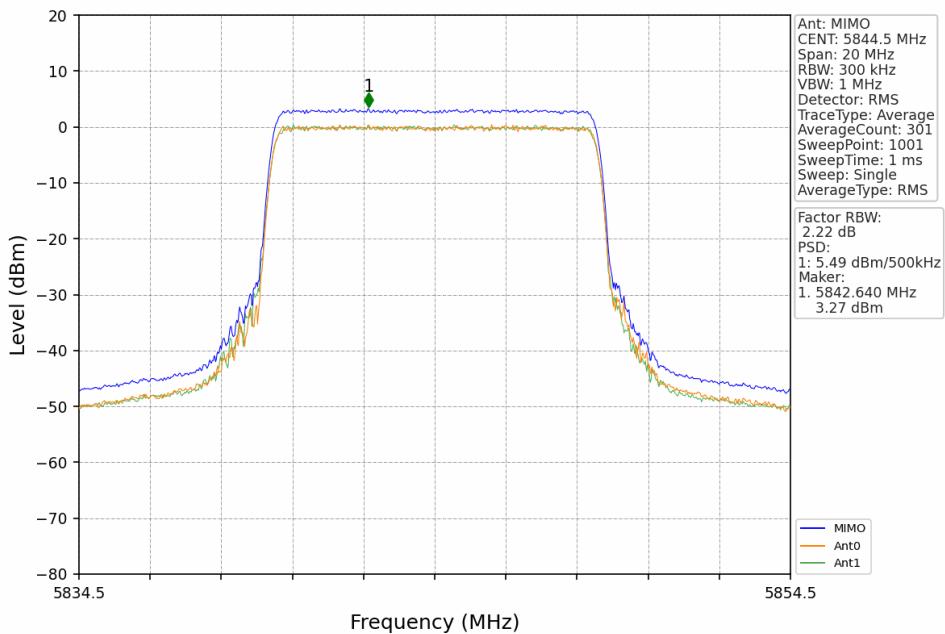
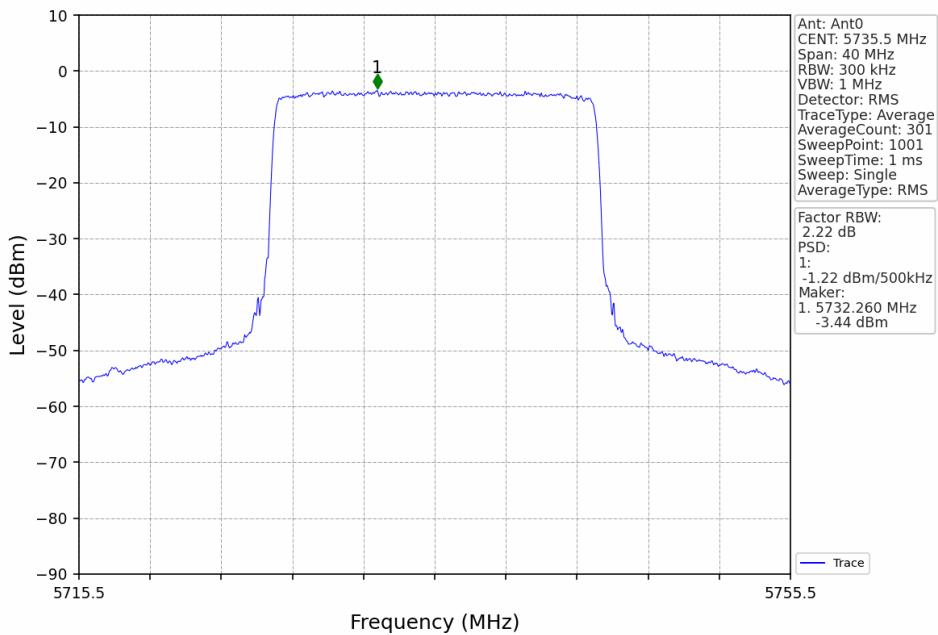
10M_LCH_5730.5MHz_MIMO_NTNV**10M_MCH_5787.5MHz_Ant0_NTNV**

10M_MCH_5787.5MHz_Ant1_NTNV**10M_MCH_5787.5MHz_MIMO_NTNV**



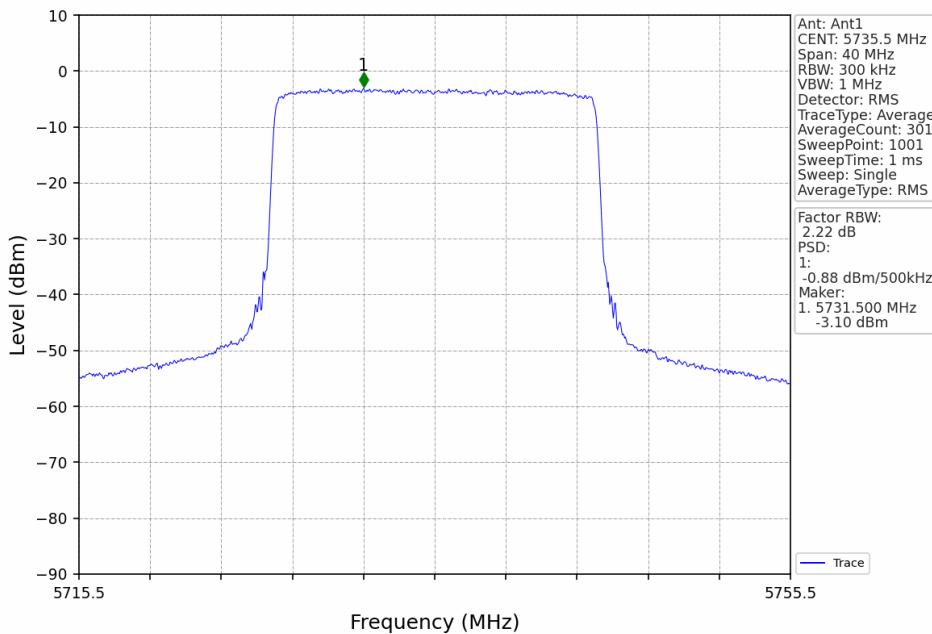
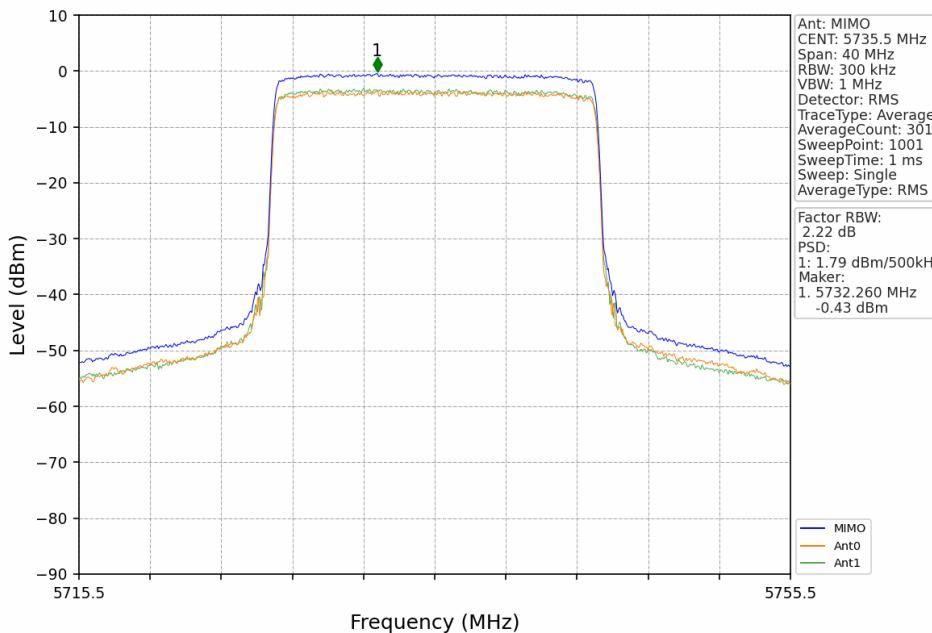
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10M_HCH_5844.5MHz_MIMO_NTNV**20M_LCH_5735.5MHz_Ant0_NTNV**

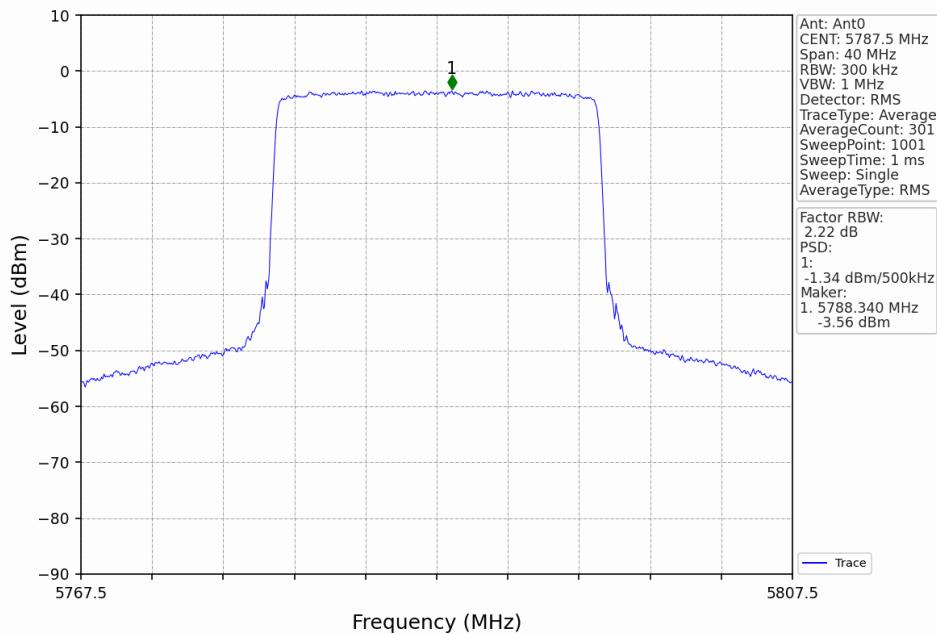
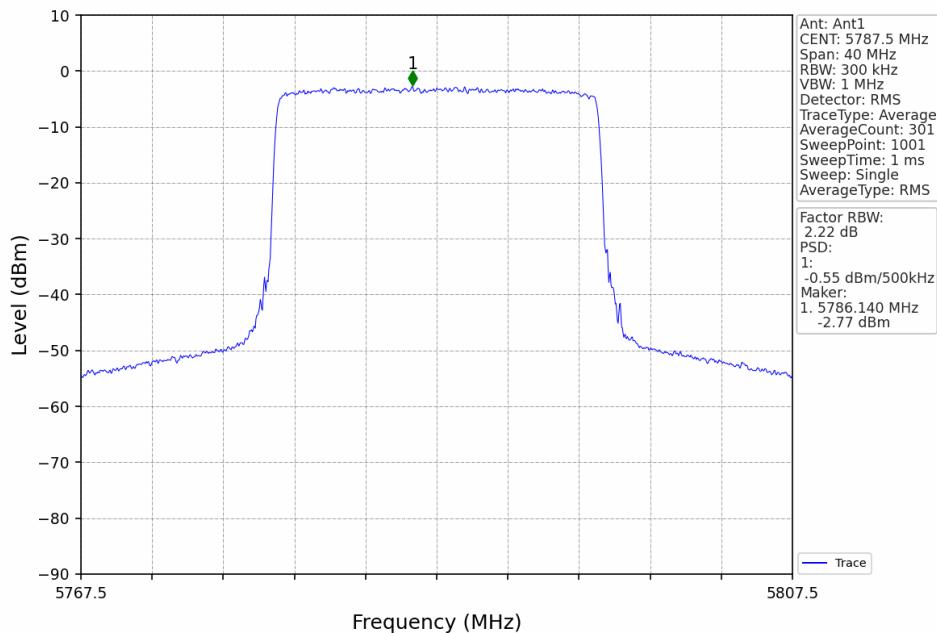
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20M_LCH_5735.5MHz_Ant1_NTNV**20M_LCH_5735.5MHz_MIMO_NTNV**

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20M_MCH_5787.5MHz_Ant0_NTNV**20M_MCH_5787.5MHz_Ant1_NTNV**

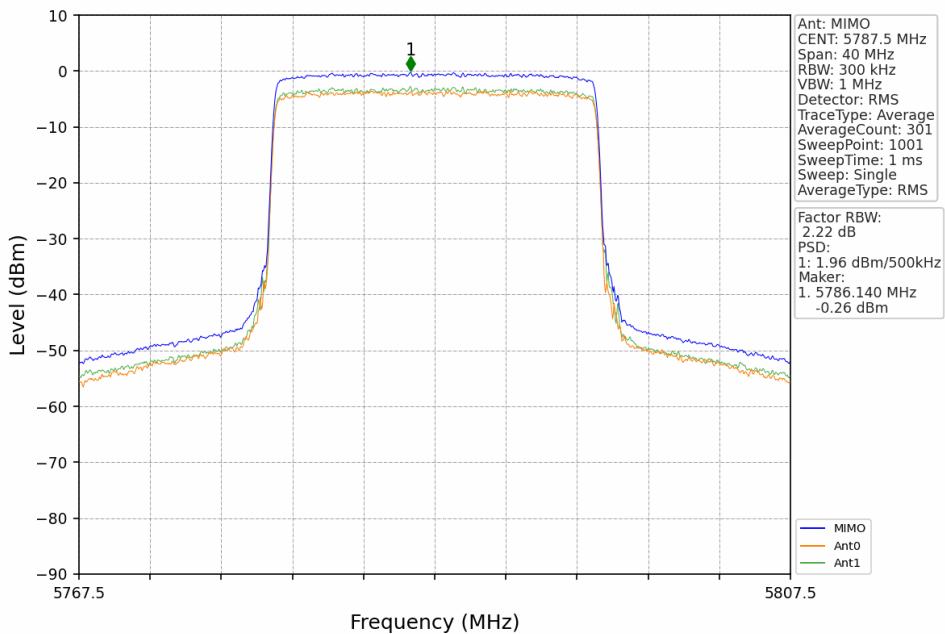
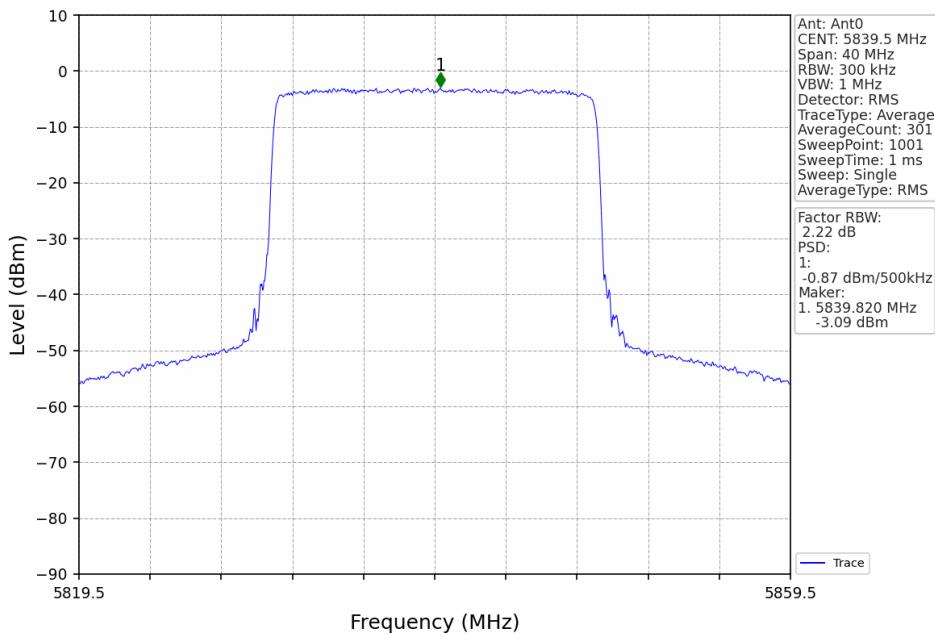
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Laboratory

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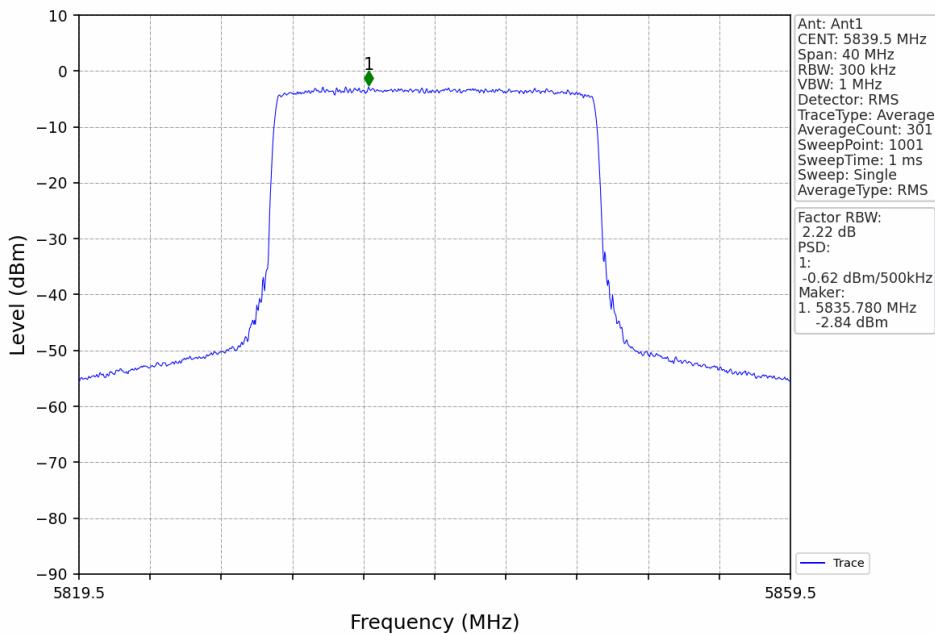
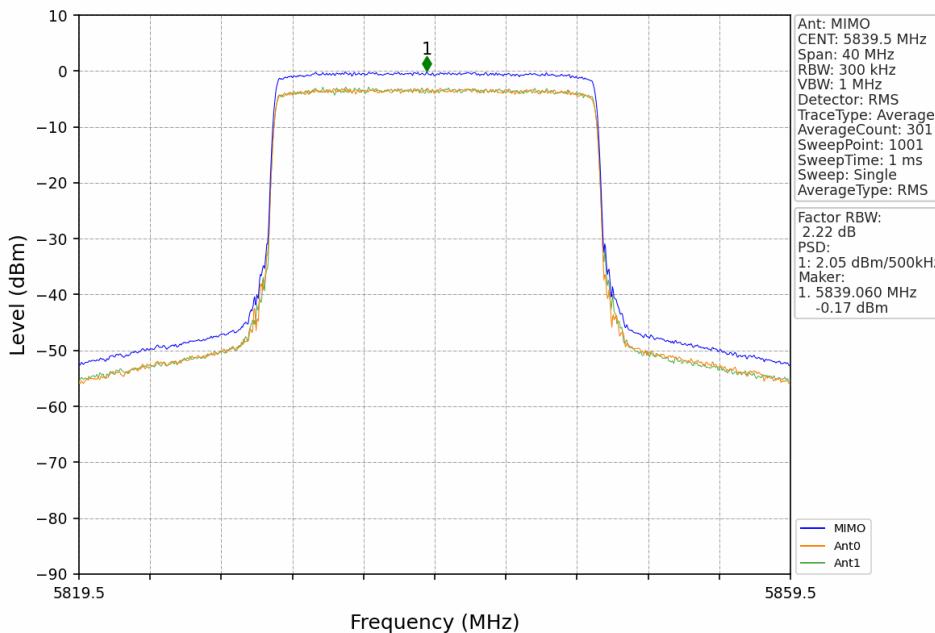
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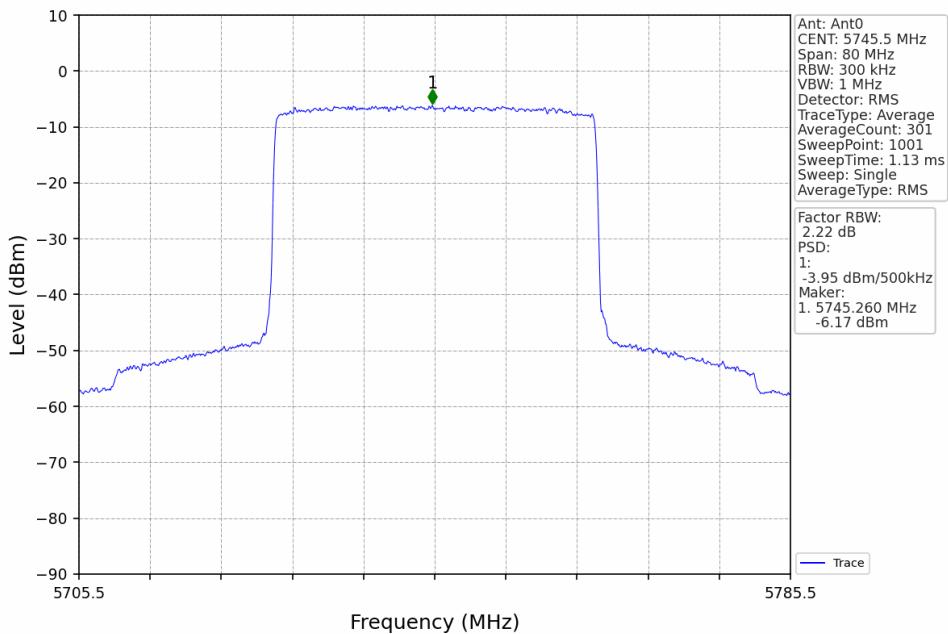
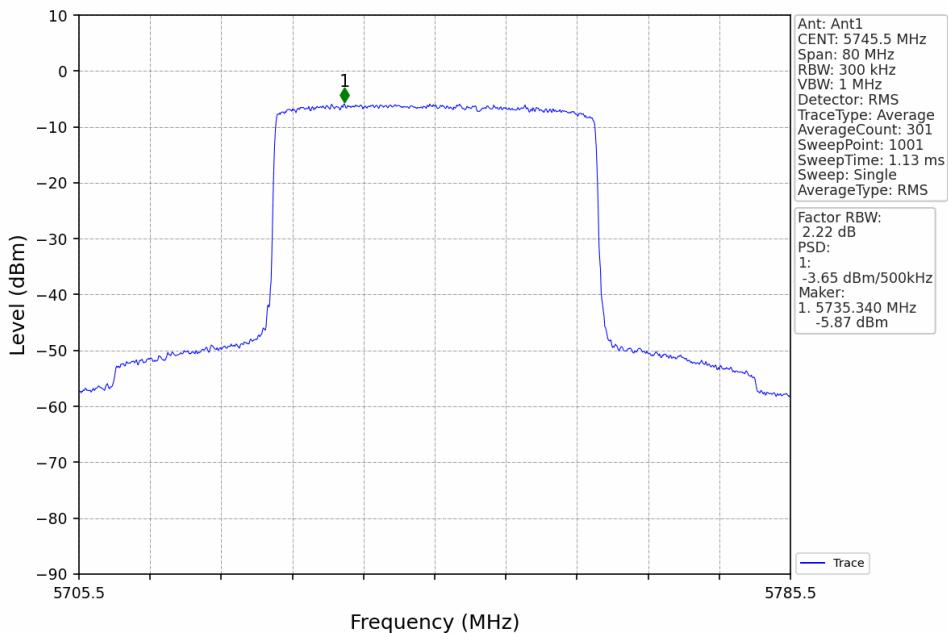
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20M_MCH_5787.5MHz_MIMO_NTNV**20M_HCH_5839.5MHz_Ant0_NTNV**

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20M_HCH_5839.5MHz_Ant1_NTNV**20M_HCH_5839.5MHz_MIMO_NTNV**

40M_LCH_5745.5MHz_Ant0_NTNV**40M_LCH_5745.5MHz_Ant1_NTNV**

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