

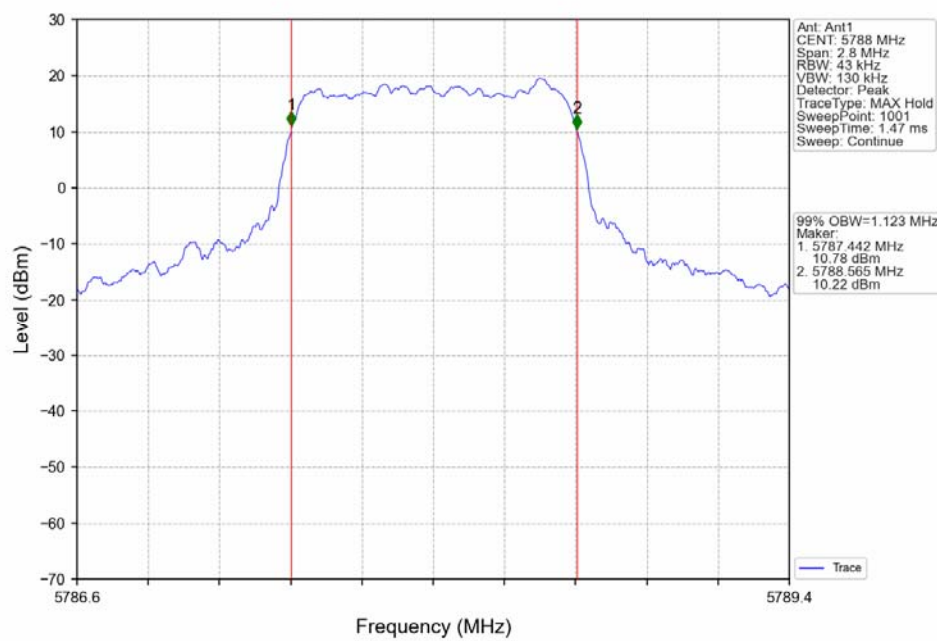
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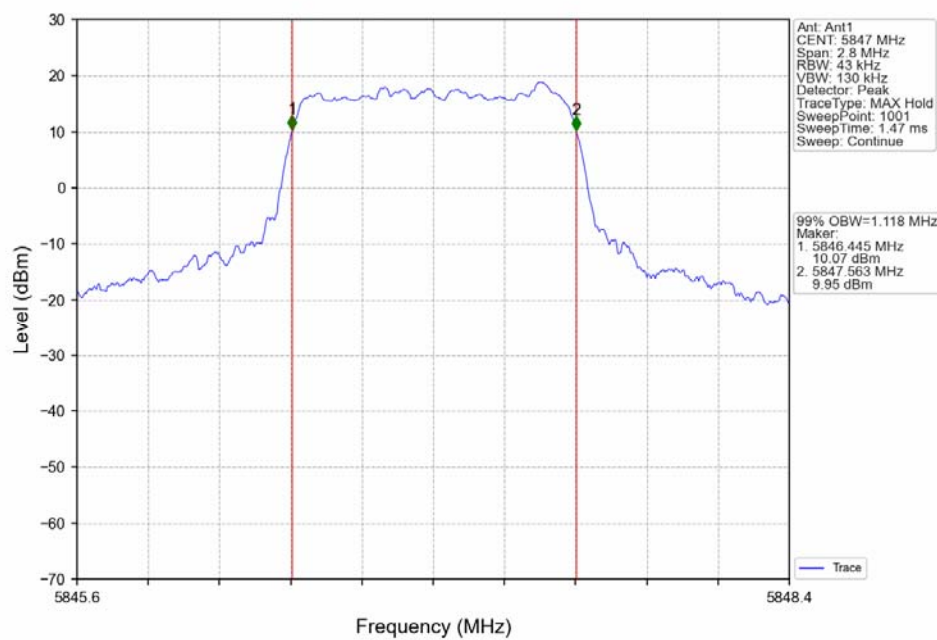
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16QAM 1.4MHz_MCH_5788MHz_Ant1_NTNV



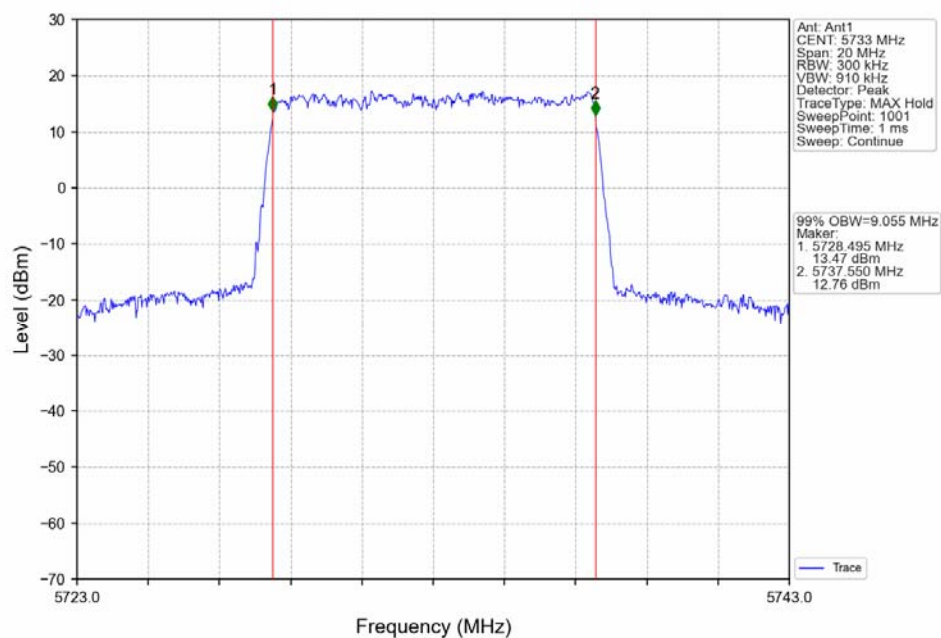
16QAM 1.4MHz_HCH_5847MHz_Ant1_NTNV



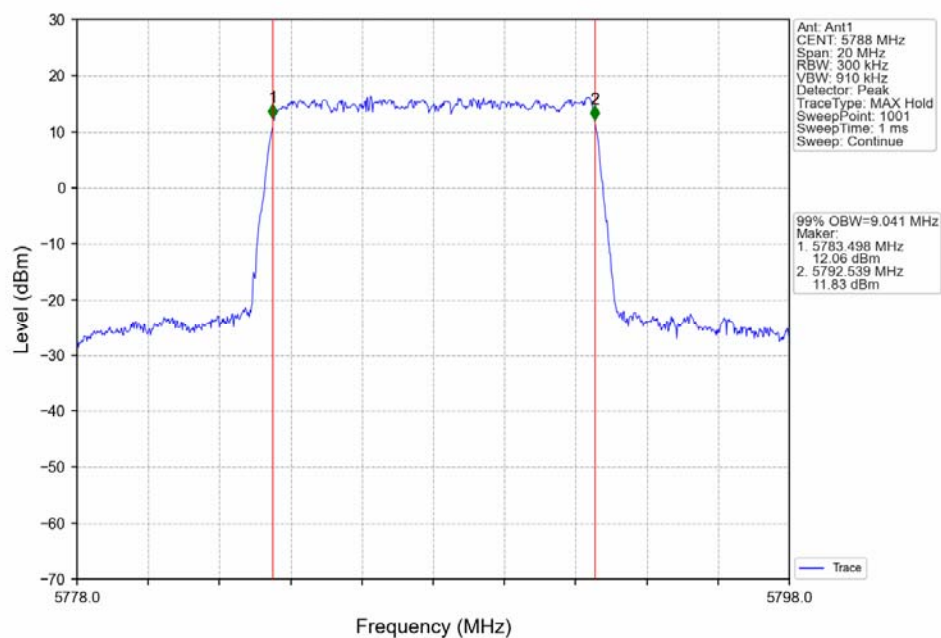
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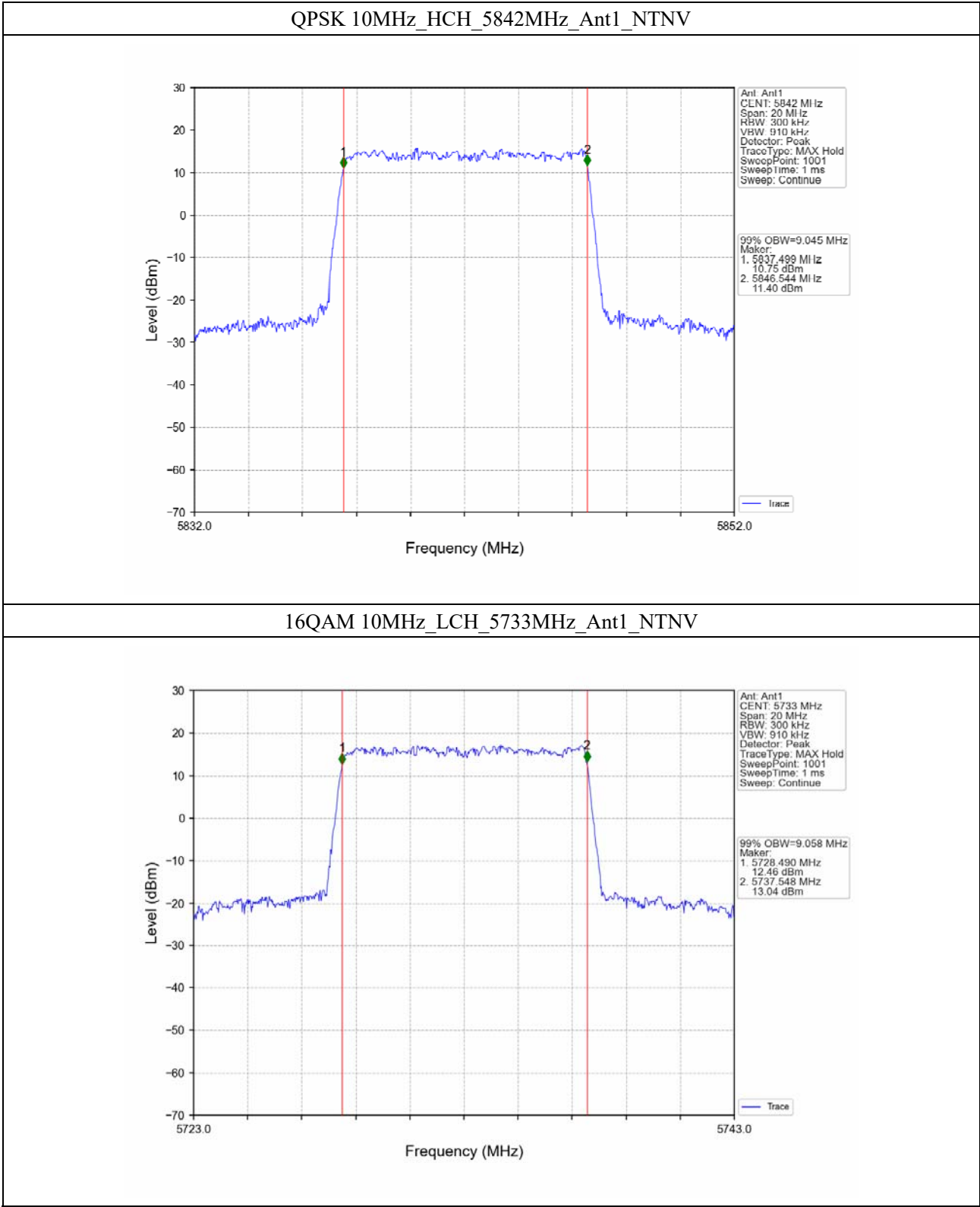
QPSK 10MHz_LCH_5733MHz_Ant1_NTNV



QPSK 10MHz_MCH_5788MHz_Ant1_NTNV



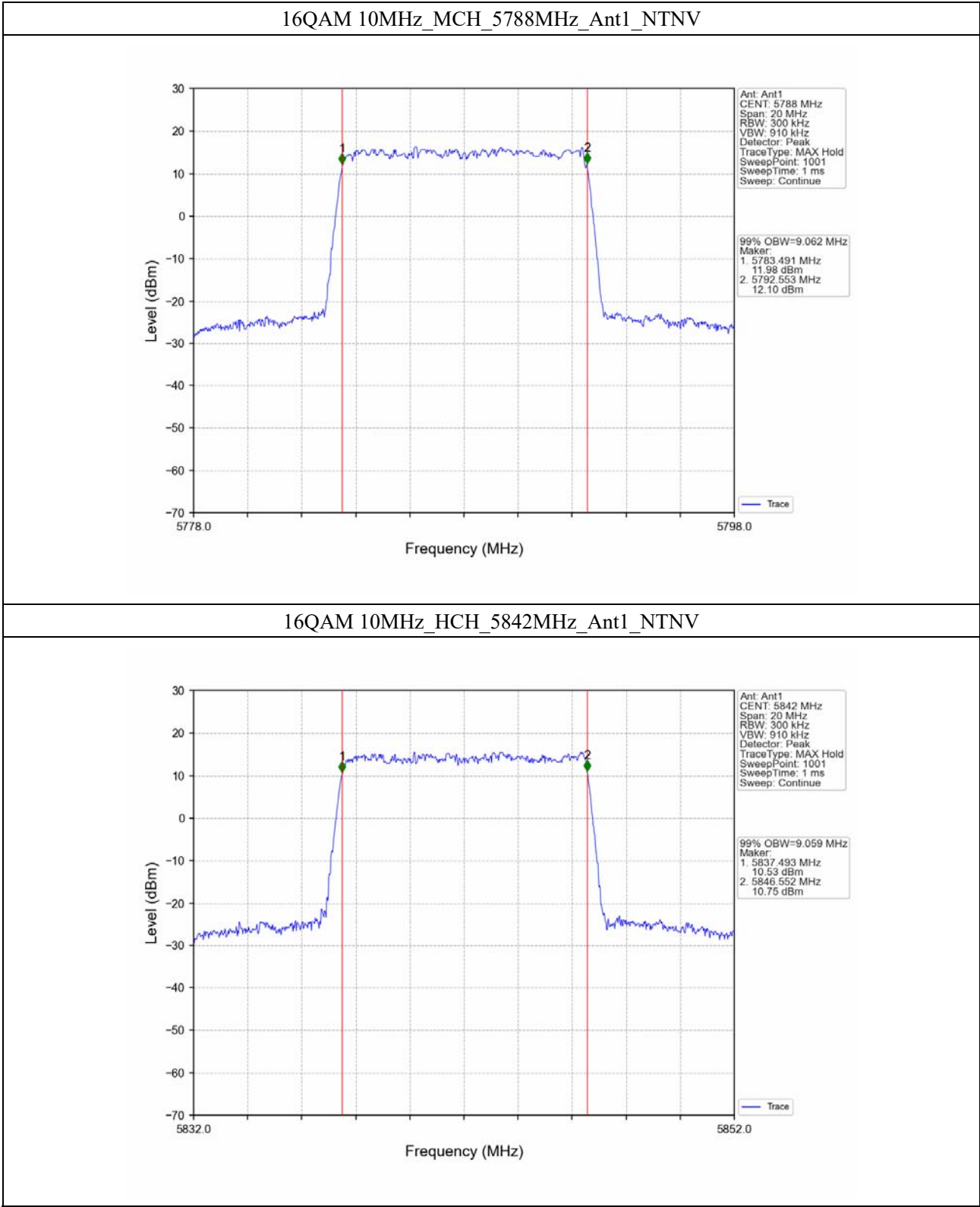
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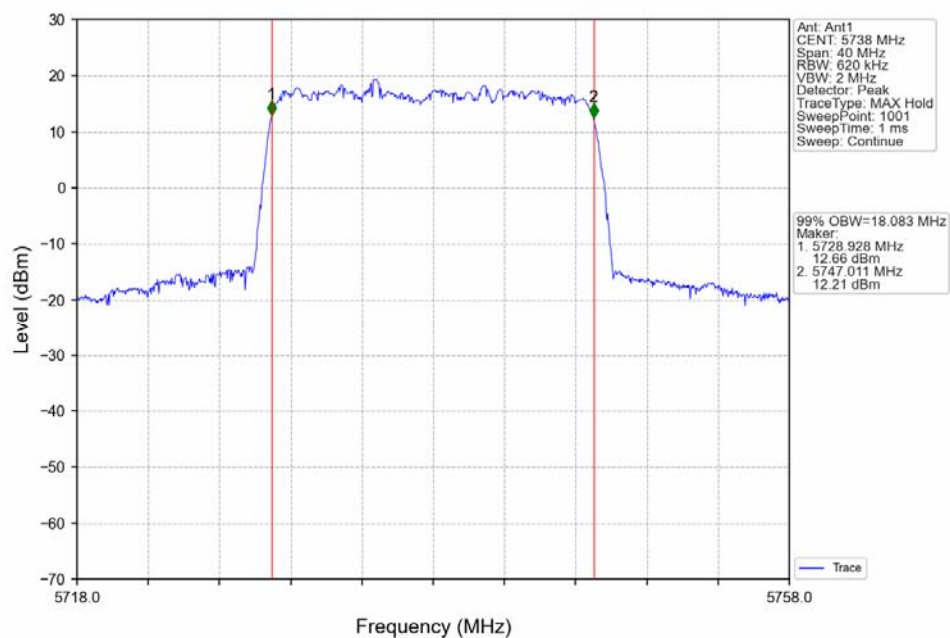
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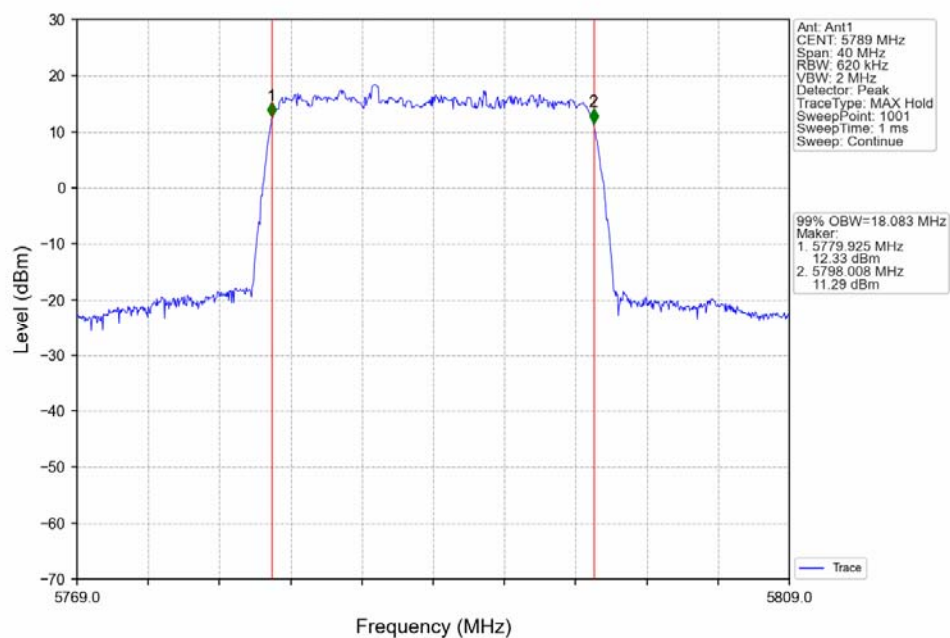
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QPSK 20MHz_LCH_5738MHz_Ant1_NTNV



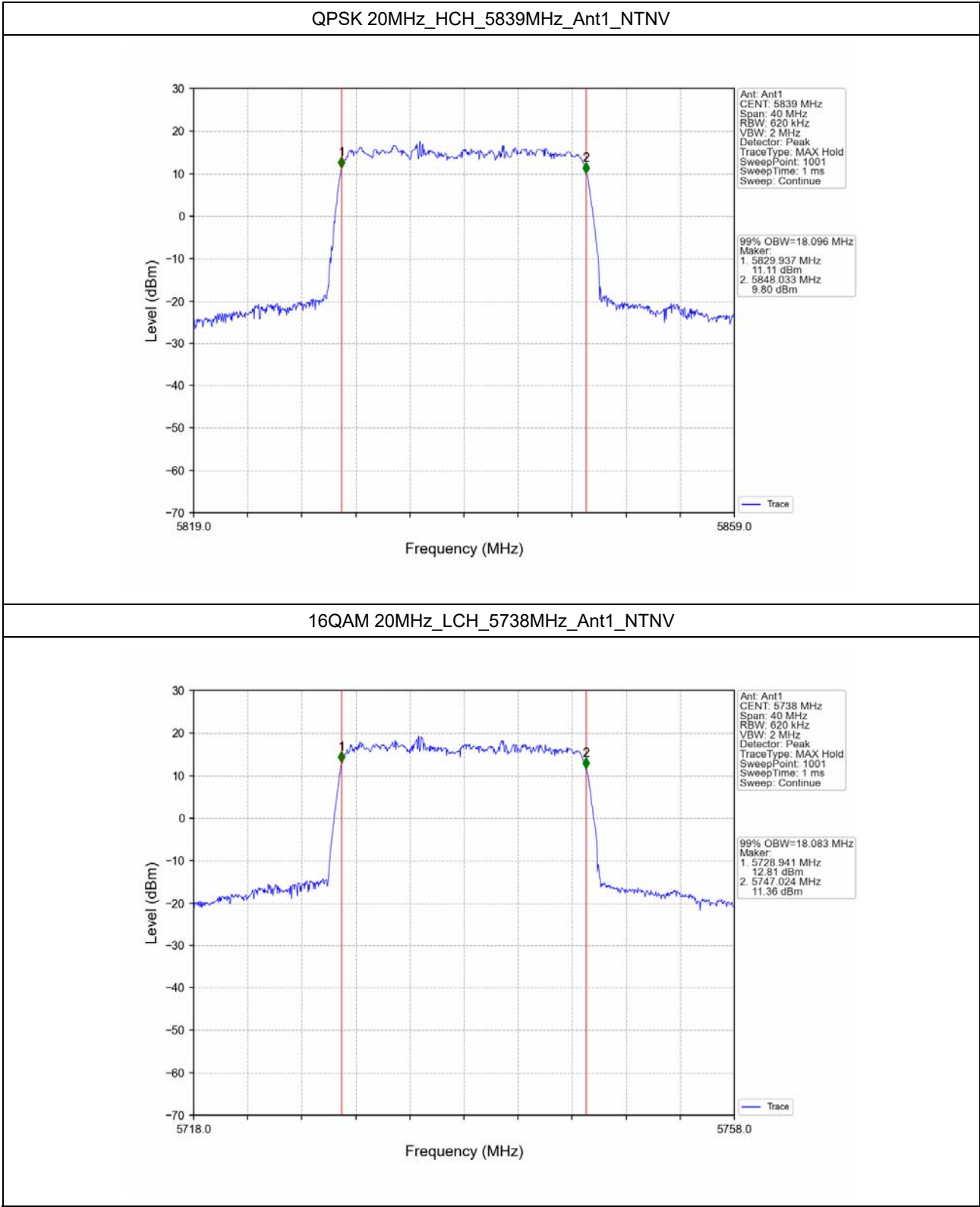
QPSK 20MHz_MCH_5789MHz_Ant1_NTNV



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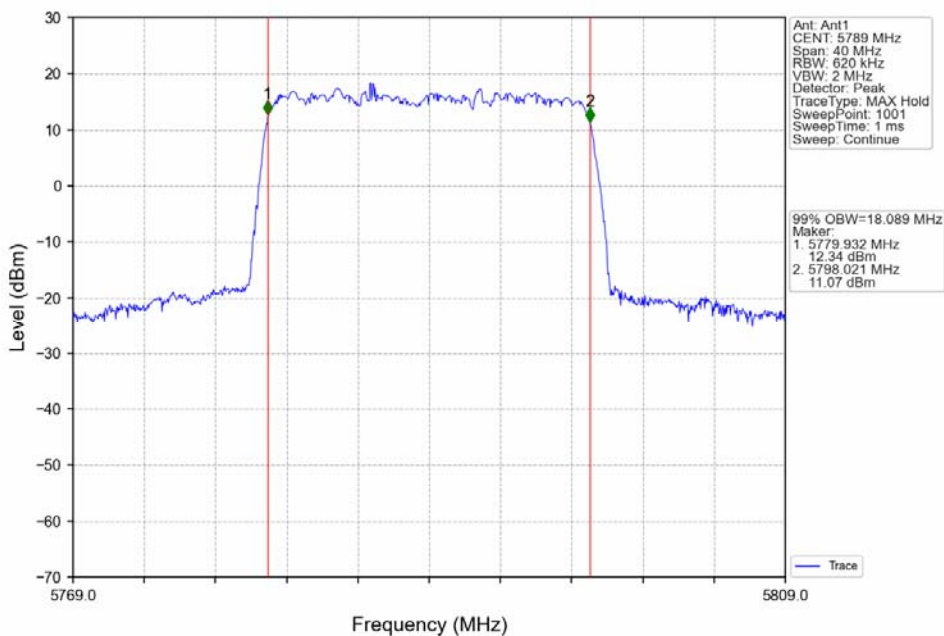
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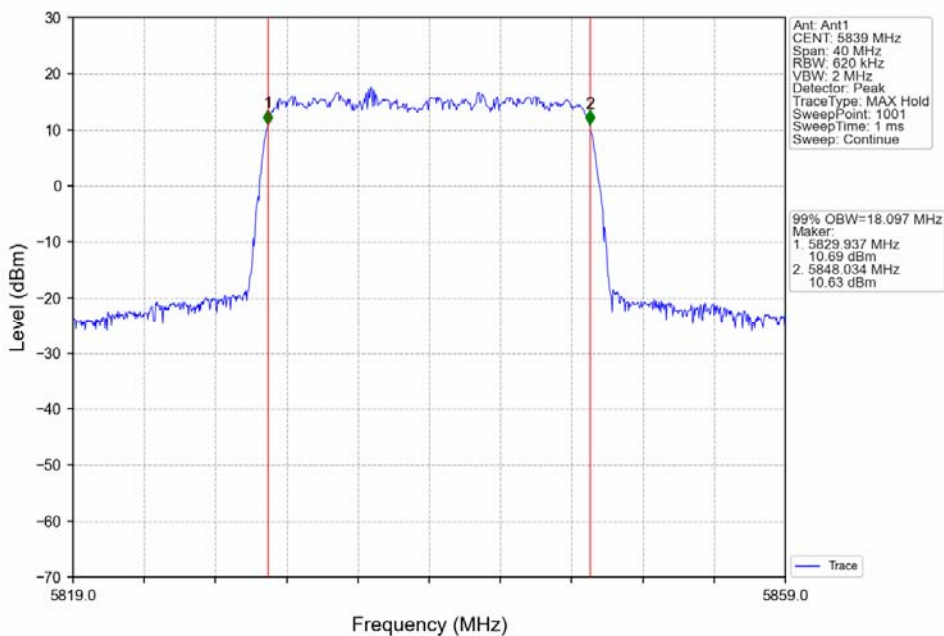
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16QAM 20MHz_MCH_5789MHz_Ant1_NTNV



16QAM 20MHz_HCH_5839MHz_Ant1_NTNV



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5G wifi

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.707	≥ 0.5	Pass
		5785	1	15.702	≥ 0.5	Pass
		5825	1	15.685	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.216	≥ 0.5	Pass
		5785	1	15.373	≥ 0.5	Pass
		5825	1	15.740	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.259	≥ 0.5	Pass
		5795	1	35.240	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.630	≥ 0.5	Pass
		5785	1	17.626	≥ 0.5	Pass
		5825	1	17.633	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.382	≥ 0.5	Pass
		5795	1	35.724	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.220	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	19.582	Pass
		5200	1	19.565	Pass
		5240	1	19.626	Pass
802.11n (HT20)	SISO	5180	1	22.617	Pass
		5200	1	23.878	Pass
		5240	1	23.399	Pass
802.11n (HT40)	SISO	5190	1	40.337	Pass
		5230	1	44.589	Pass
802.11ac (VHT20)	SISO	5180	1	20.879	Pass
		5200	1	21.013	Pass
		5240	1	21.053	Pass
802.11ac (VHT40)	SISO	5190	1	58.049	Pass
		5230	1	39.839	Pass
802.11ac (VHT80)	SISO	5210	1	79.776	Pass

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5G transfer image

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
QPSK 1.4MHz	MIMO	5154	1	1.192	Pass
			2	1.200	Pass
		5200	1	1.187	Pass
			2	1.201	Pass
		5246	1	1.192	Pass
			2	1.209	Pass
16QAM 1.4MHz	MIMO	5154	1	1.188	Pass
			2	1.203	Pass
		5200	1	1.188	Pass
			2	1.208	Pass
		5246	1	1.193	Pass
			2	1.206	Pass

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
QPSK 10MHz	MIMO	5157	1	9.624	Pass
			2	9.573	Pass
		5200	1	9.665	Pass
			2	9.582	Pass
		5243	1	9.597	Pass
			2	9.581	Pass
16QAM 10MHz	MIMO	5157	1	9.596	Pass
			2	9.561	Pass
		5200	1	9.613	Pass
			2	9.578	Pass
		5243	1	9.504	Pass
			2	9.588	Pass

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
QPSK 20MHz	MIMO	5167	1	23.034	Pass
			2	19.068	Pass
		5200	1	23.141	Pass
			2	19.157	Pass
		5233	1	19.672	Pass

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			2	19.150	Pass
16QAM 20MHz	MIMO	5167	1	20.222	Pass
			2	19.128	Pass
		5200	1	23.076	Pass
			2	19.275	Pass
		5233	1	19.075	Pass
			2	19.114	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 1.4MHz	MIMO	5728	1	1.133	≥ 0.5	Pass
		5788	1	1.133	≥ 0.5	Pass
		5847	1	1.134	≥ 0.5	Pass
16QAM 1.4MHz	MIMO	5728	1	1.129	≥ 0.5	Pass
		5788	1	1.135	≥ 0.5	Pass
		5847	1	1.132	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 10MHz	MIMO	5733	1	9.031	≥ 0.5	Pass
		5788	1	9.023	≥ 0.5	Pass
		5842	1	9.021	≥ 0.5	Pass
16QAM 10MHz	MIMO	5733	1	9.013	≥ 0.5	Pass
		5788	1	9.025	≥ 0.5	Pass
		5842	1	9.022	≥ 0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
QPSK 20MHz	MIMO	5738	1	18.070	≥ 0.5	Pass
		5789	1	18.061	≥ 0.5	Pass
		5839	1	18.060	≥ 0.5	Pass
16QAM 20MHz	MIMO	5738	1	18.047	≥ 0.5	Pass
		5789	1	18.053	≥ 0.5	Pass
		5839	1	18.043	≥ 0.5	Pass

Note: All antenna were tested, and only the worst cases were reported in the test report and external antl was the worst case.

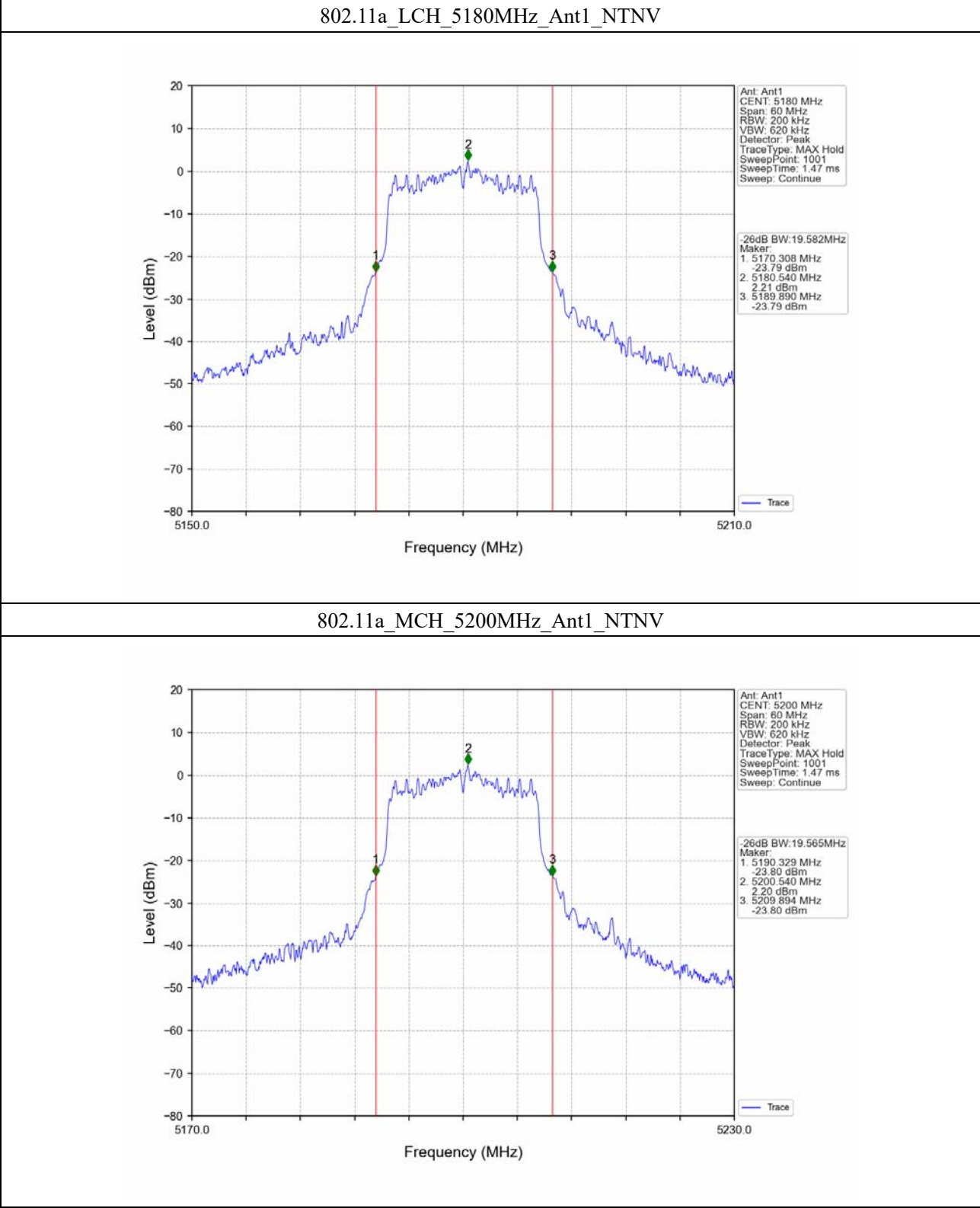
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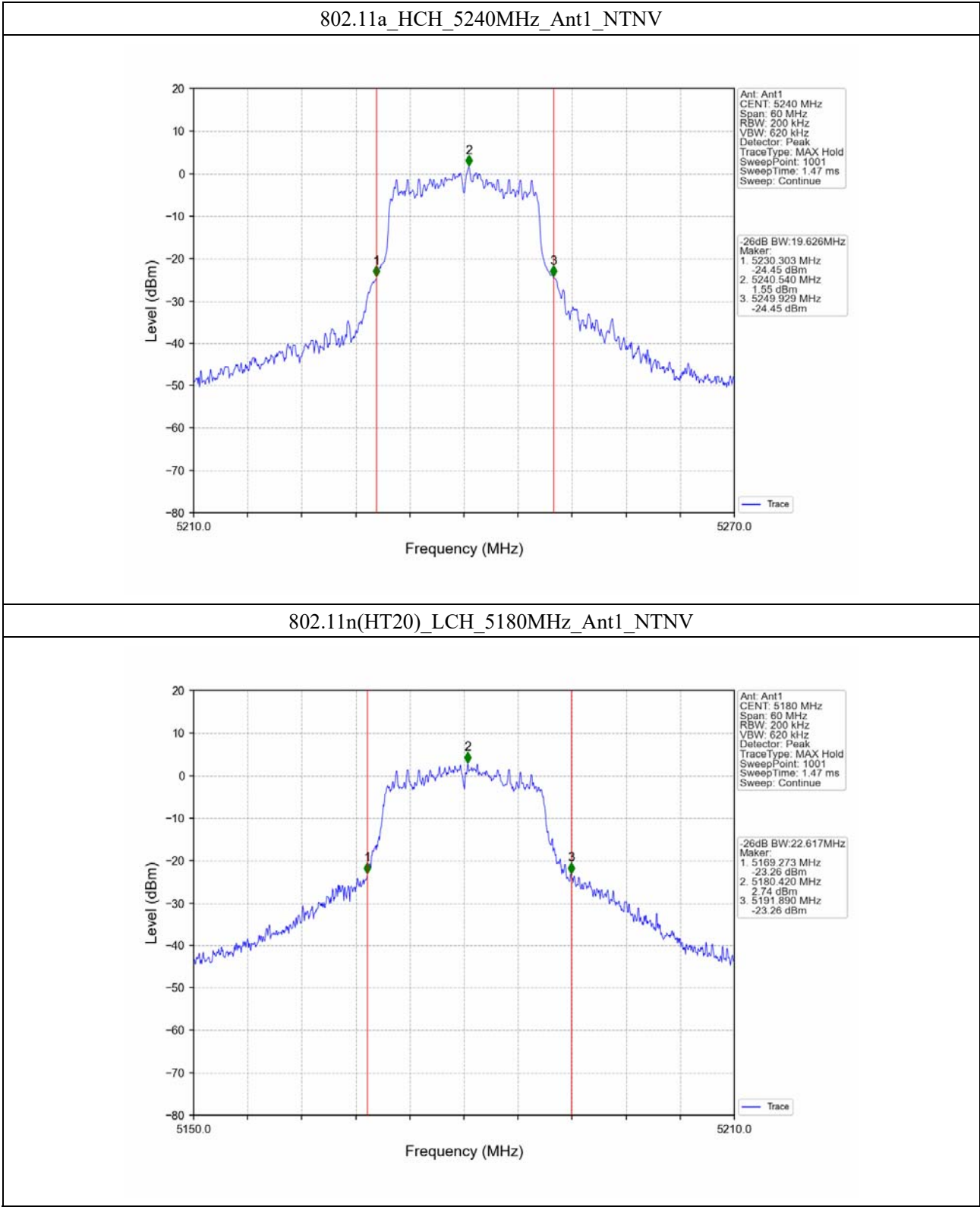
5G wifi



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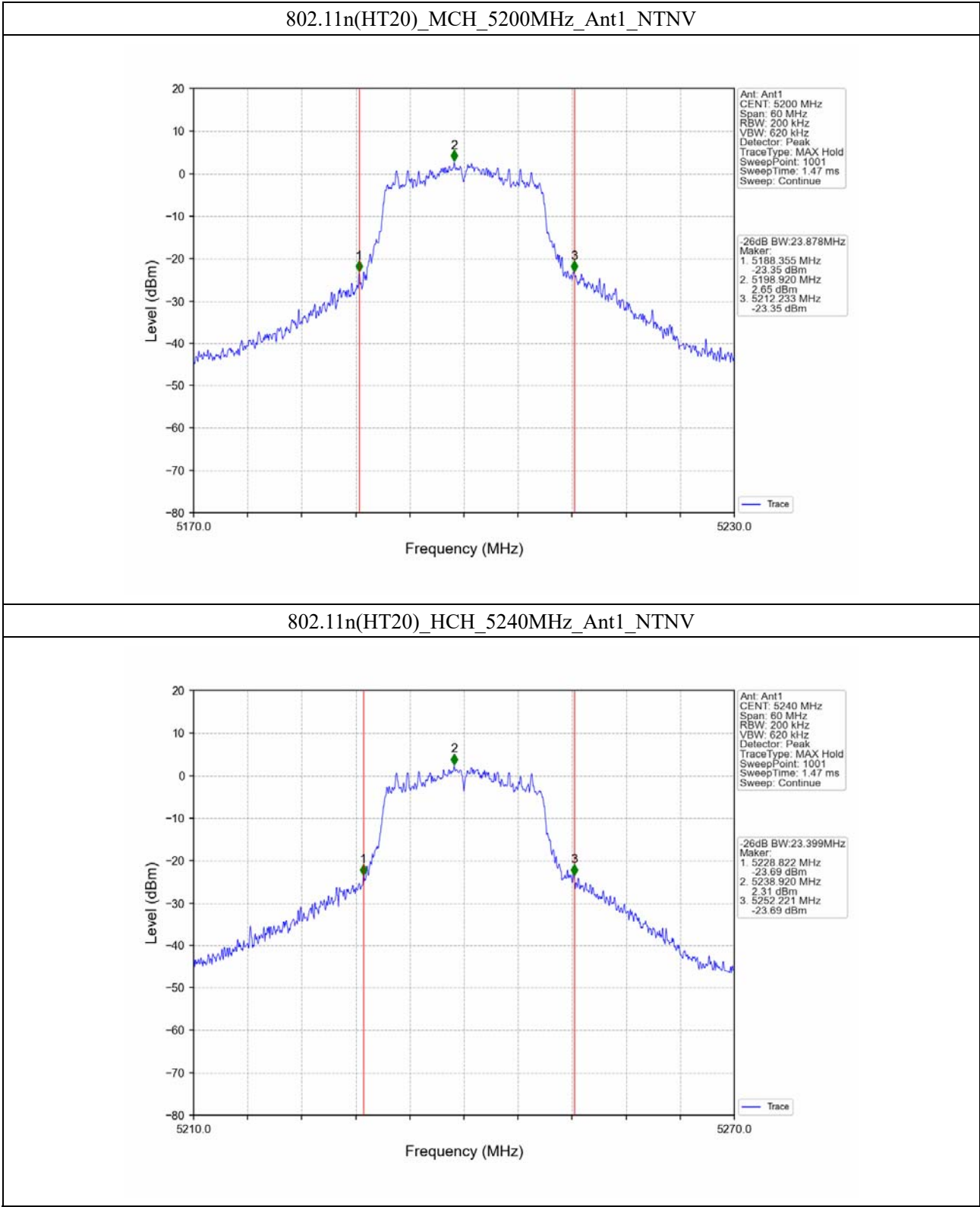
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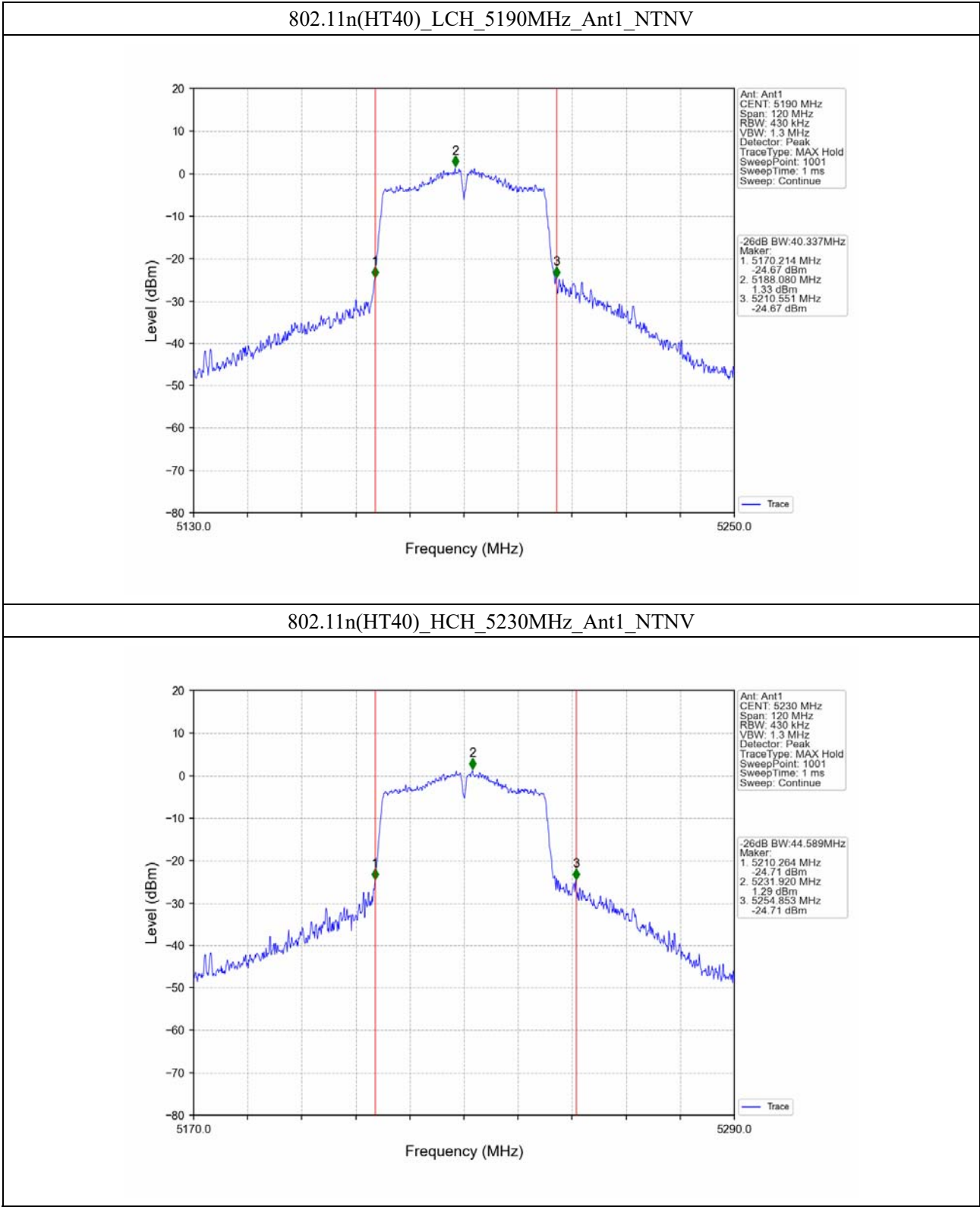
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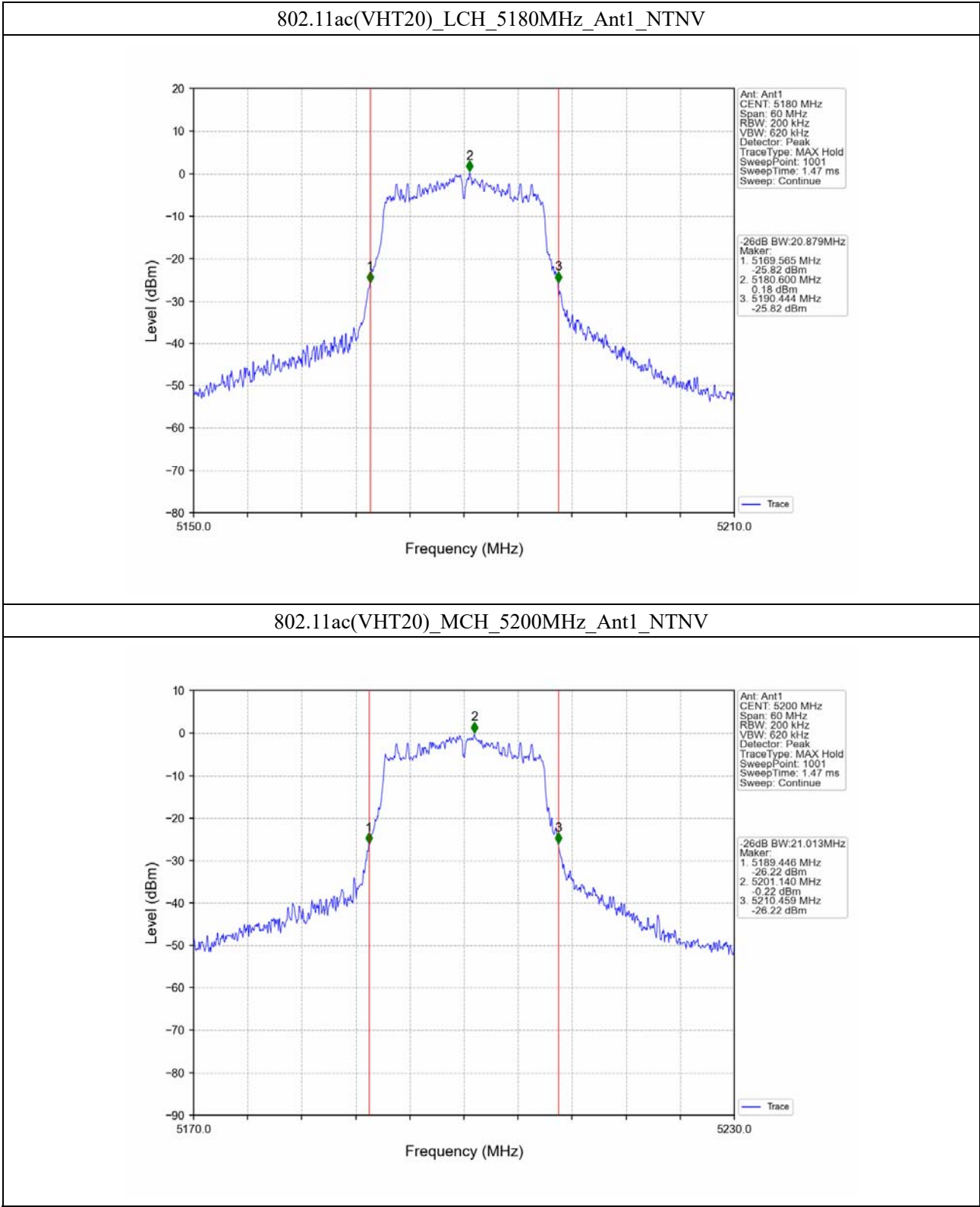
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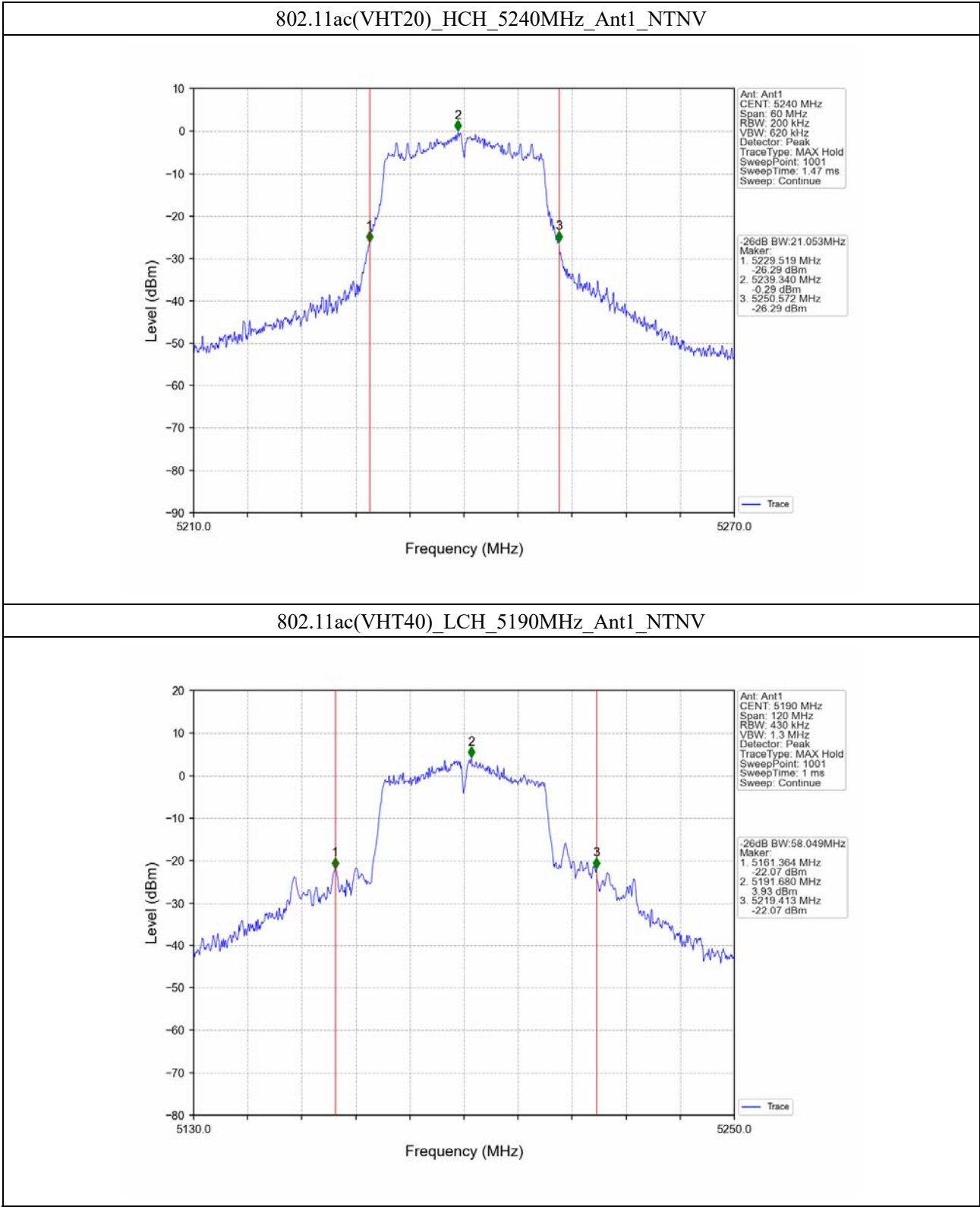
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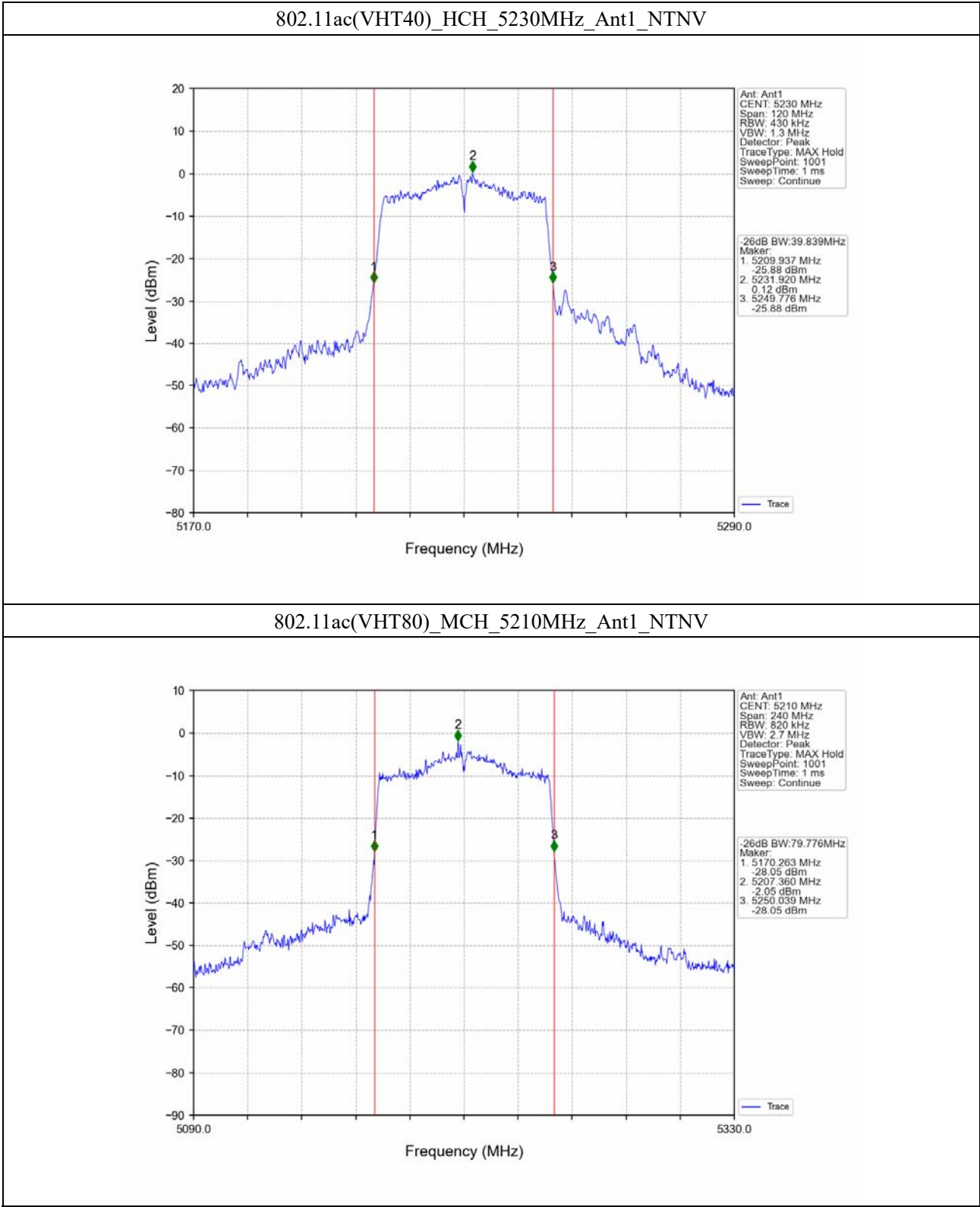
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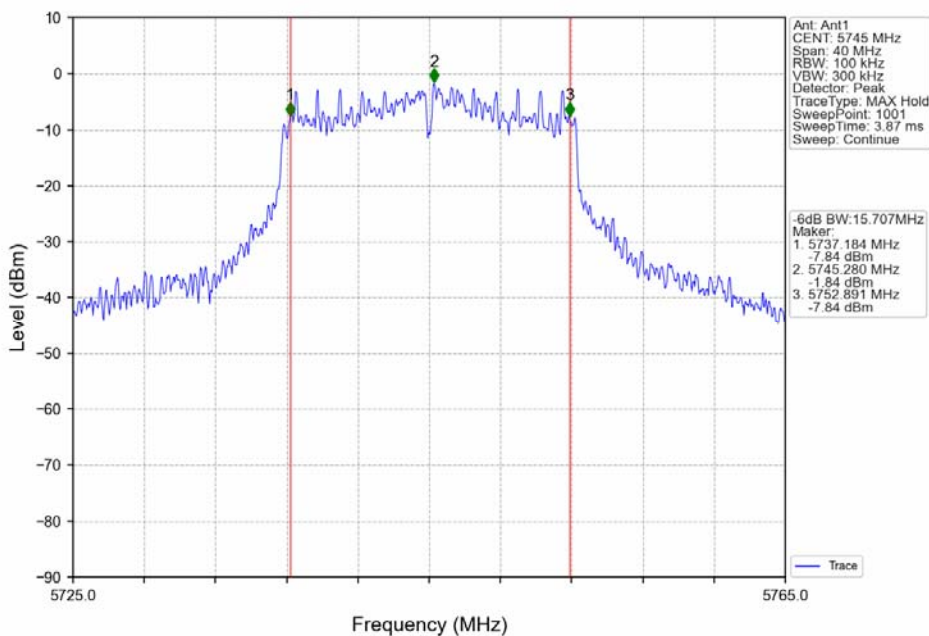
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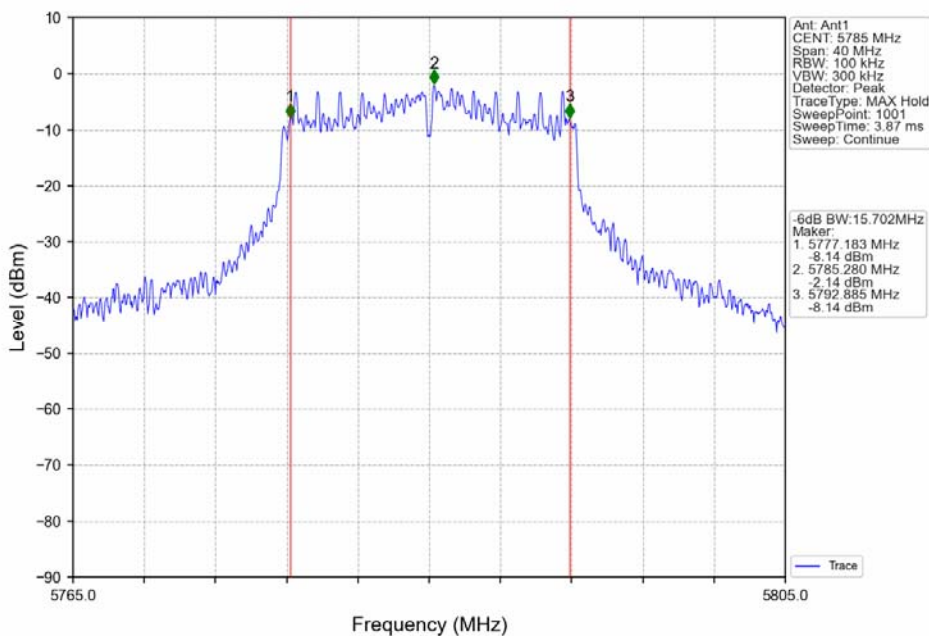
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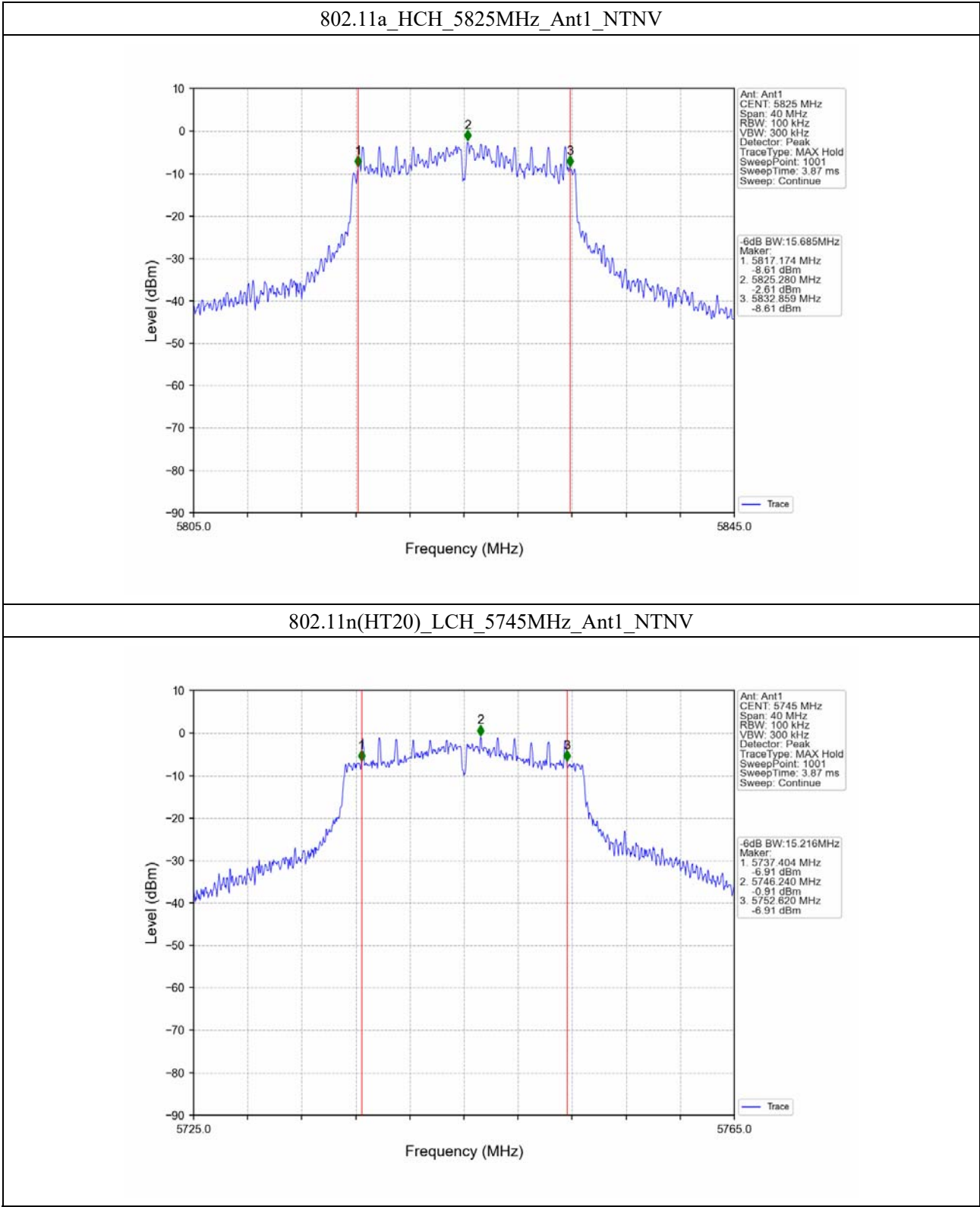
802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



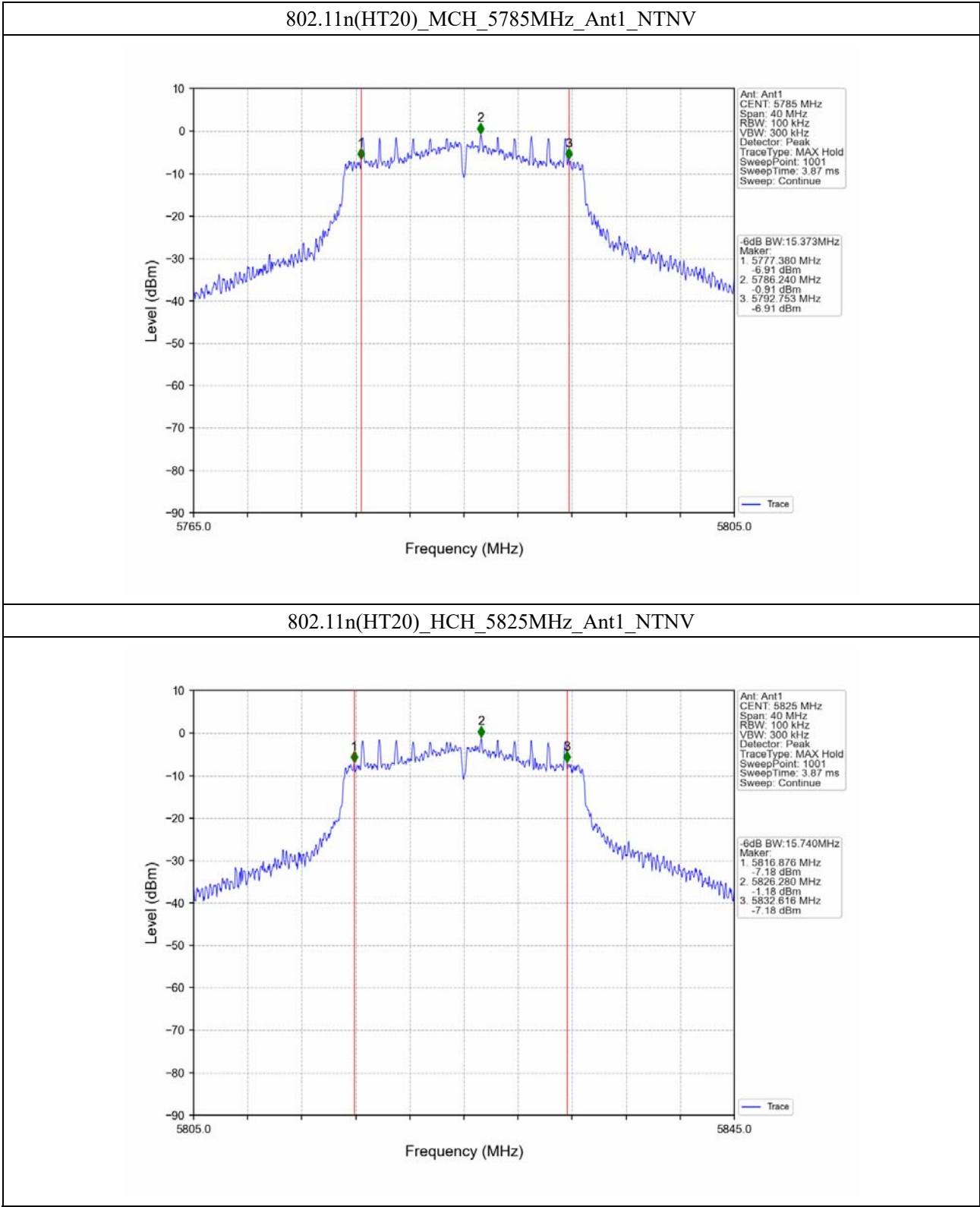
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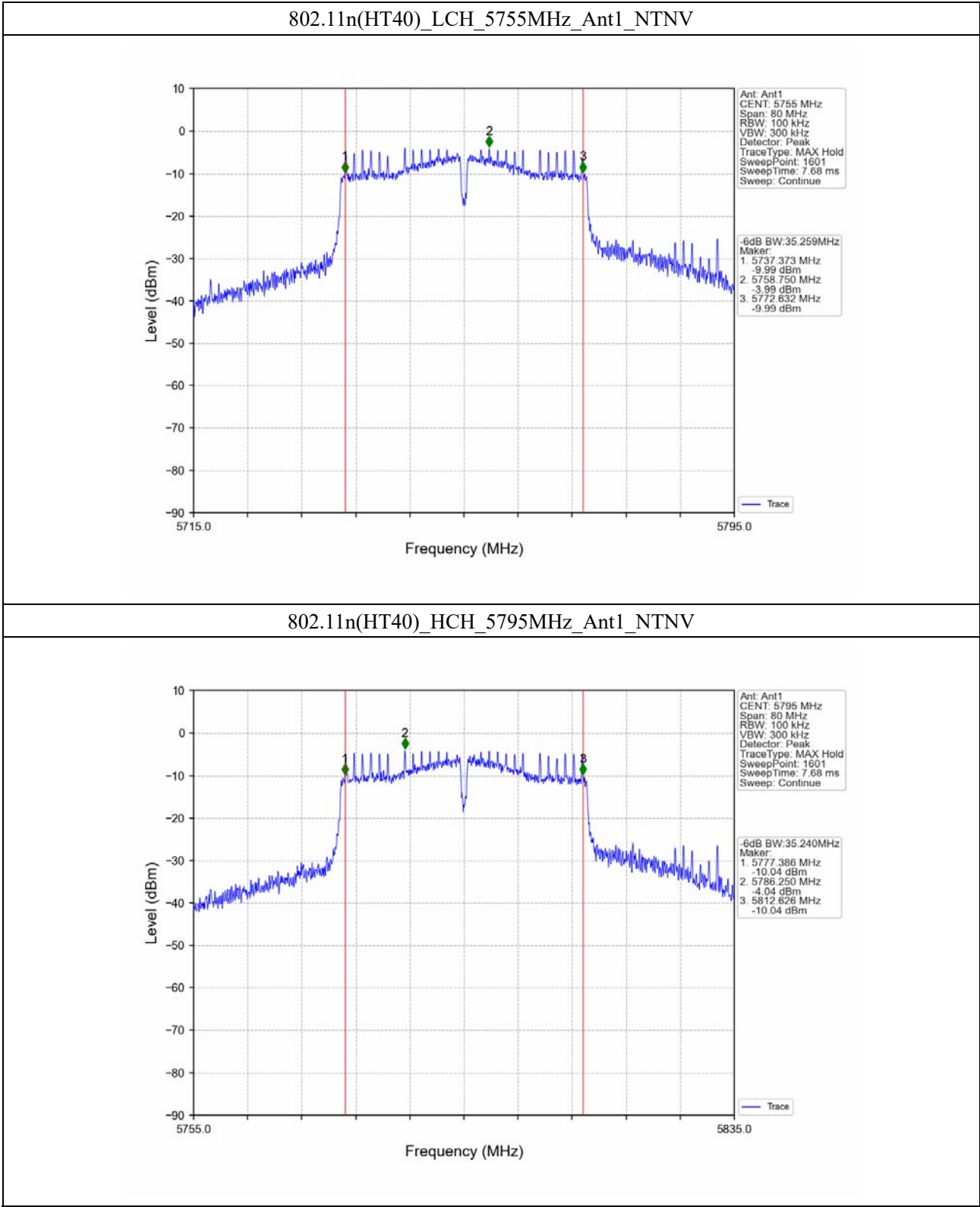
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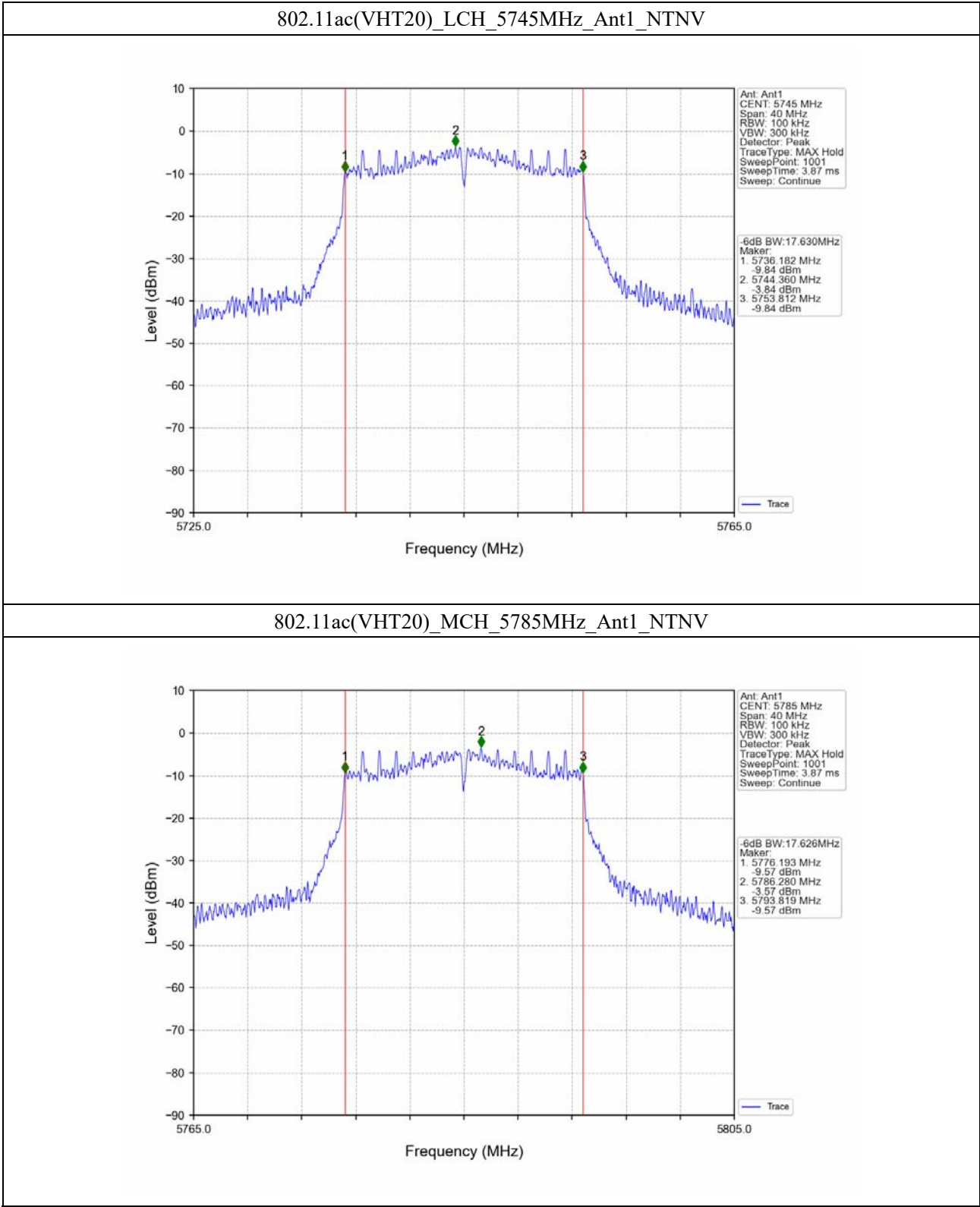
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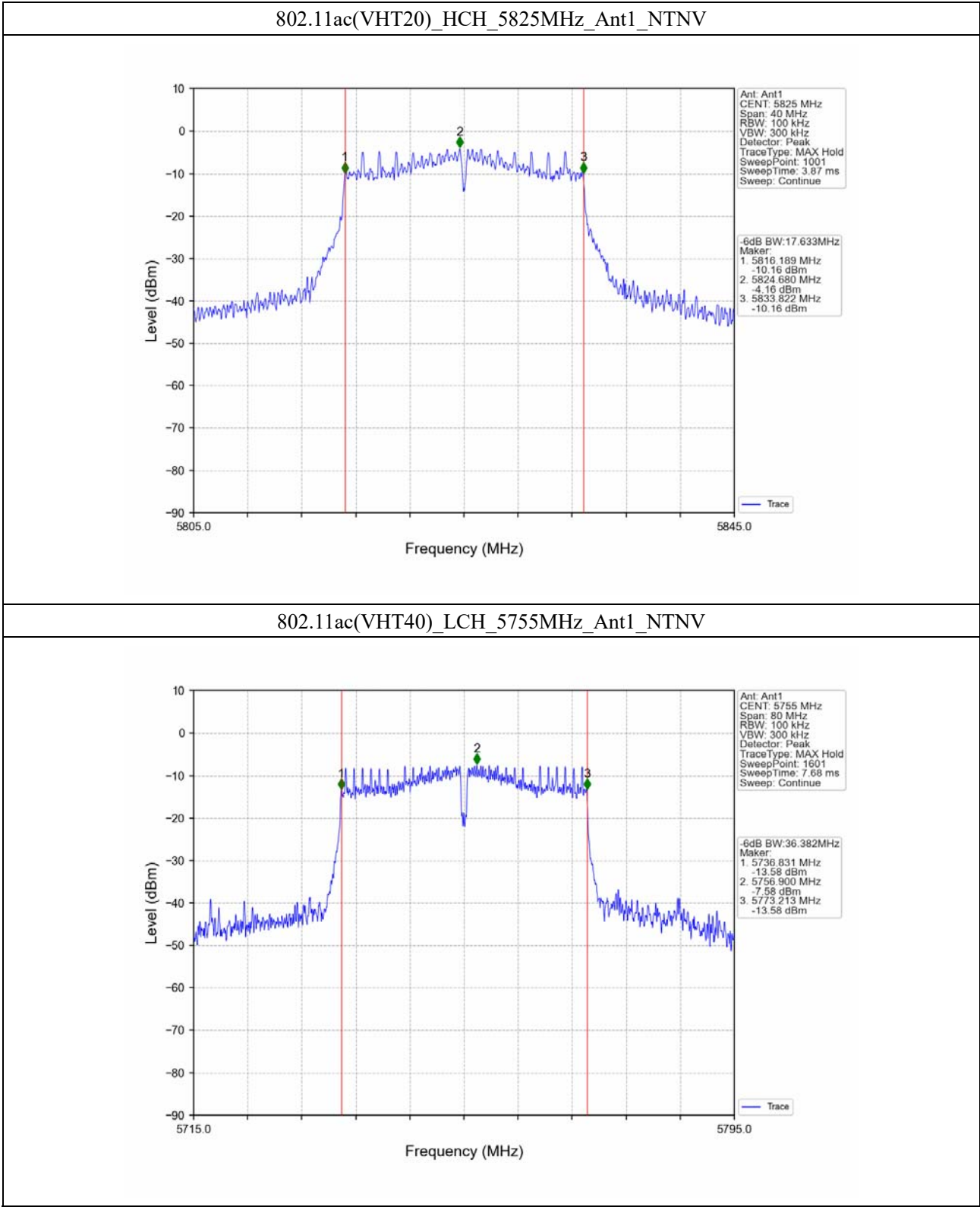
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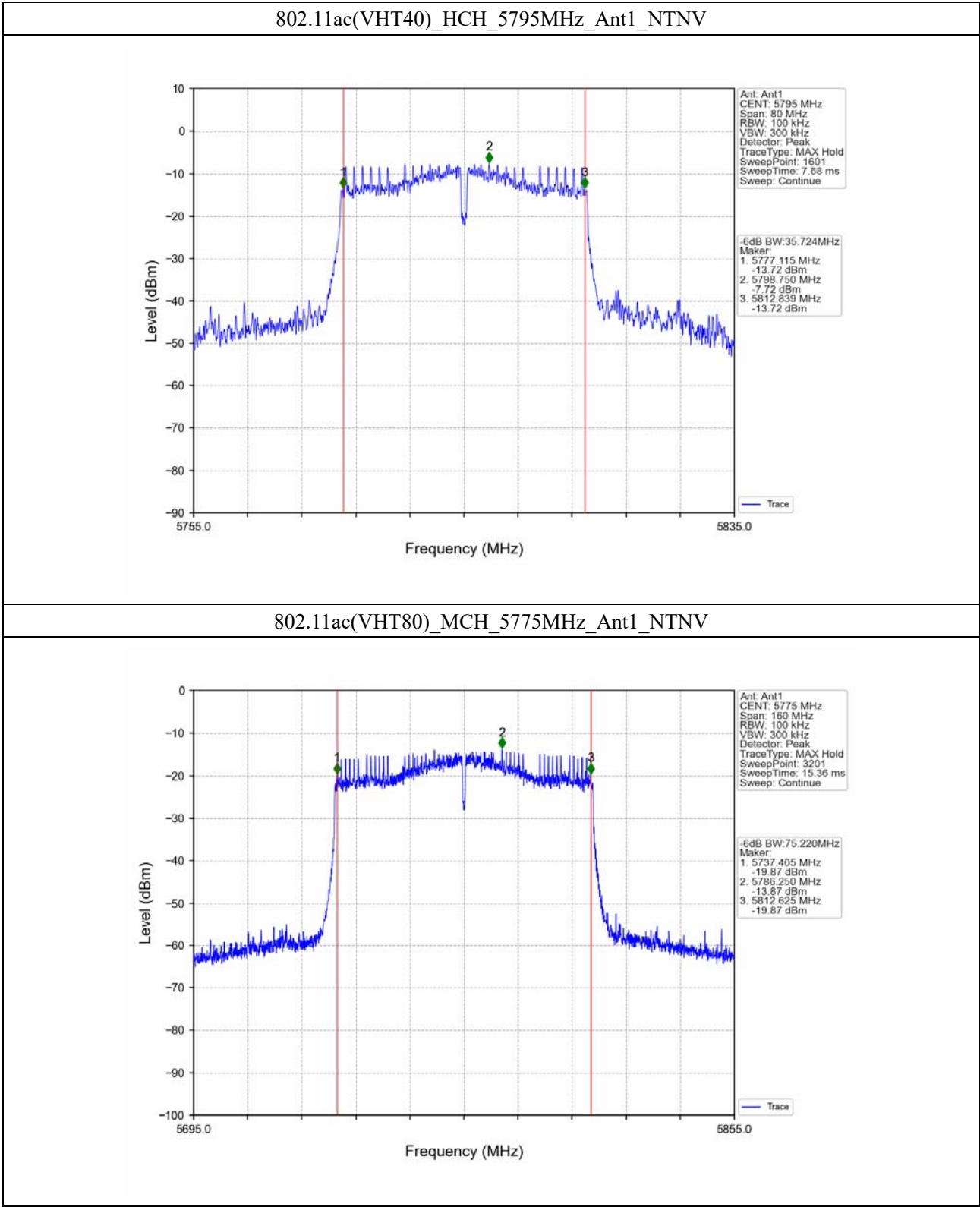
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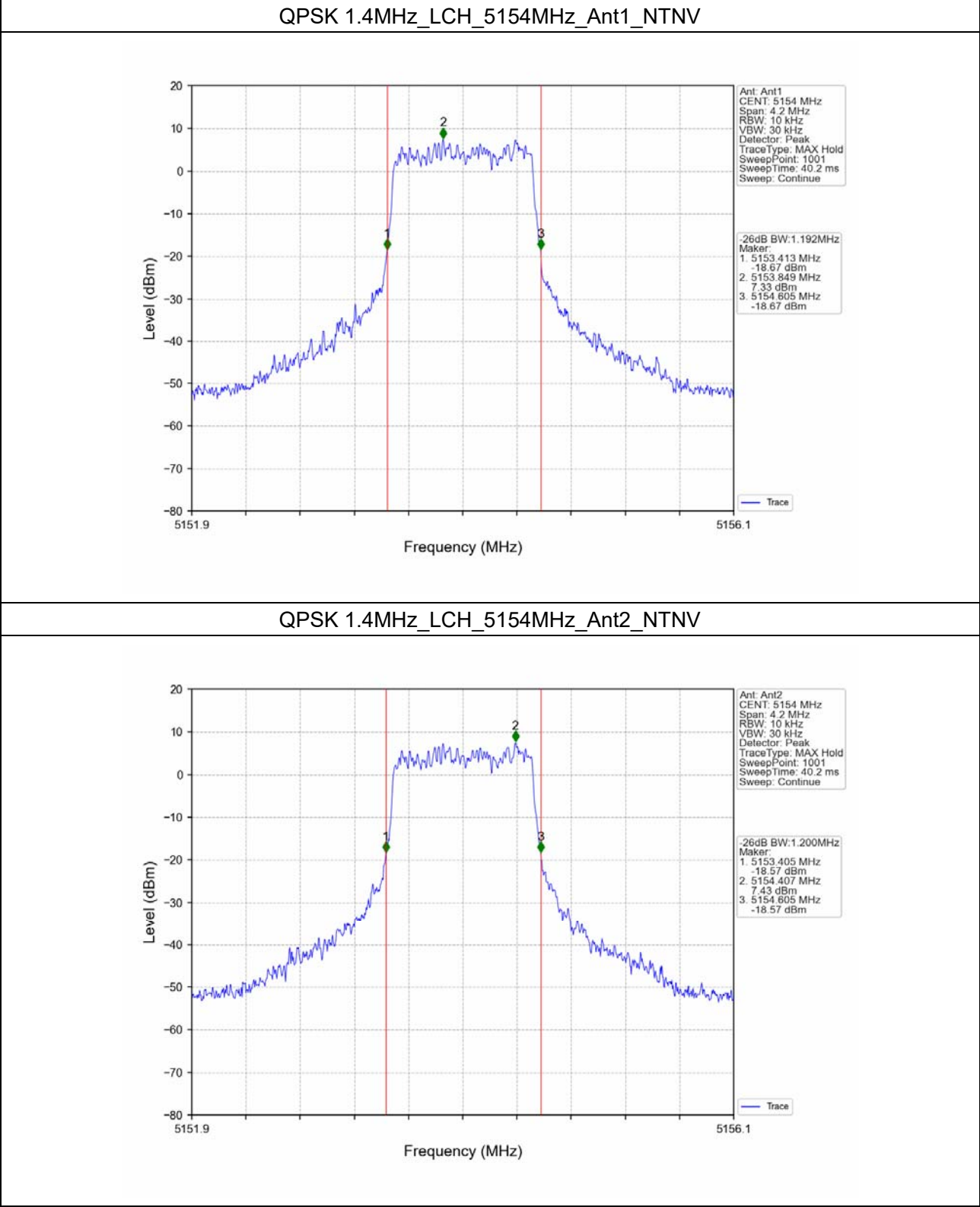
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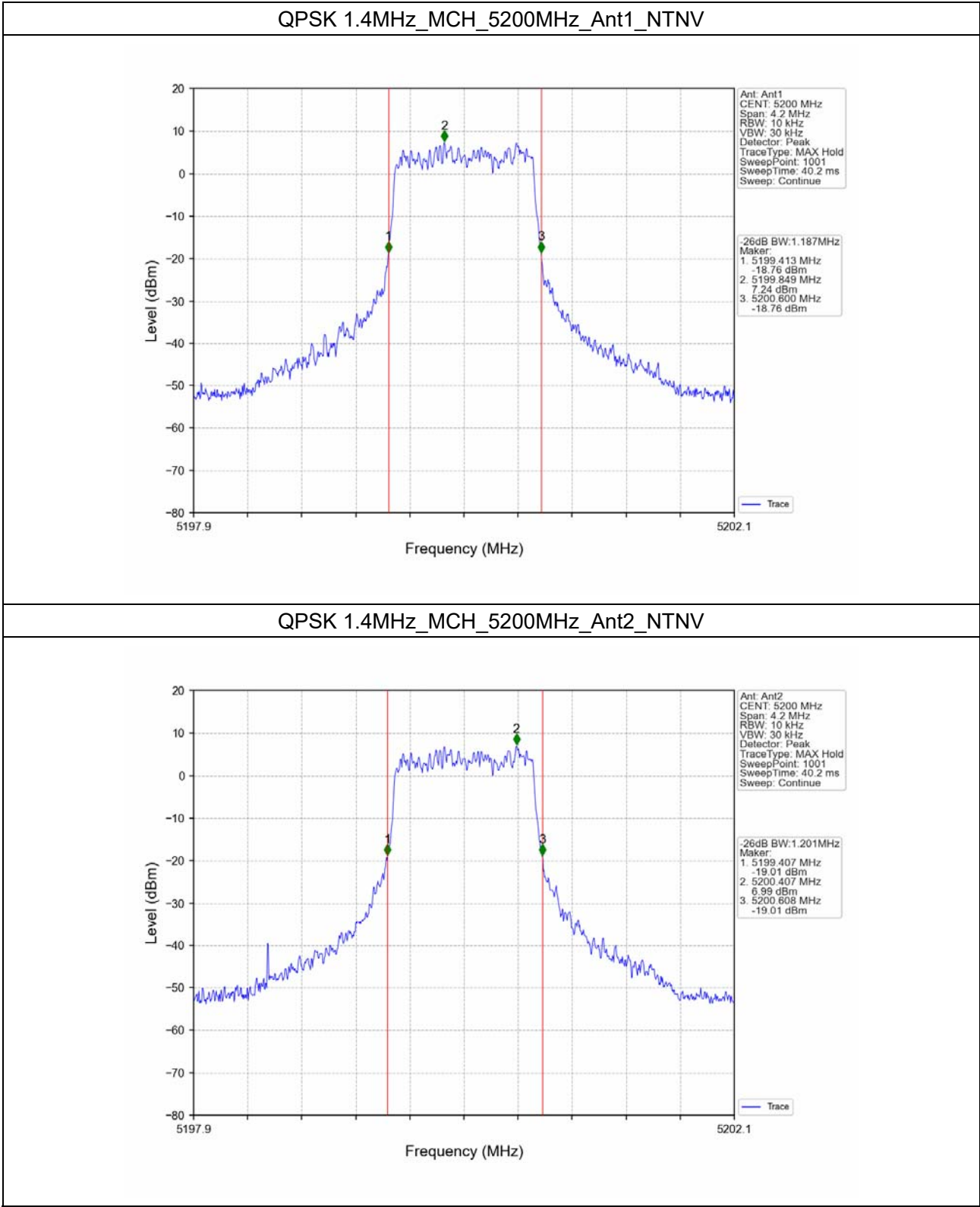
5G transfer image



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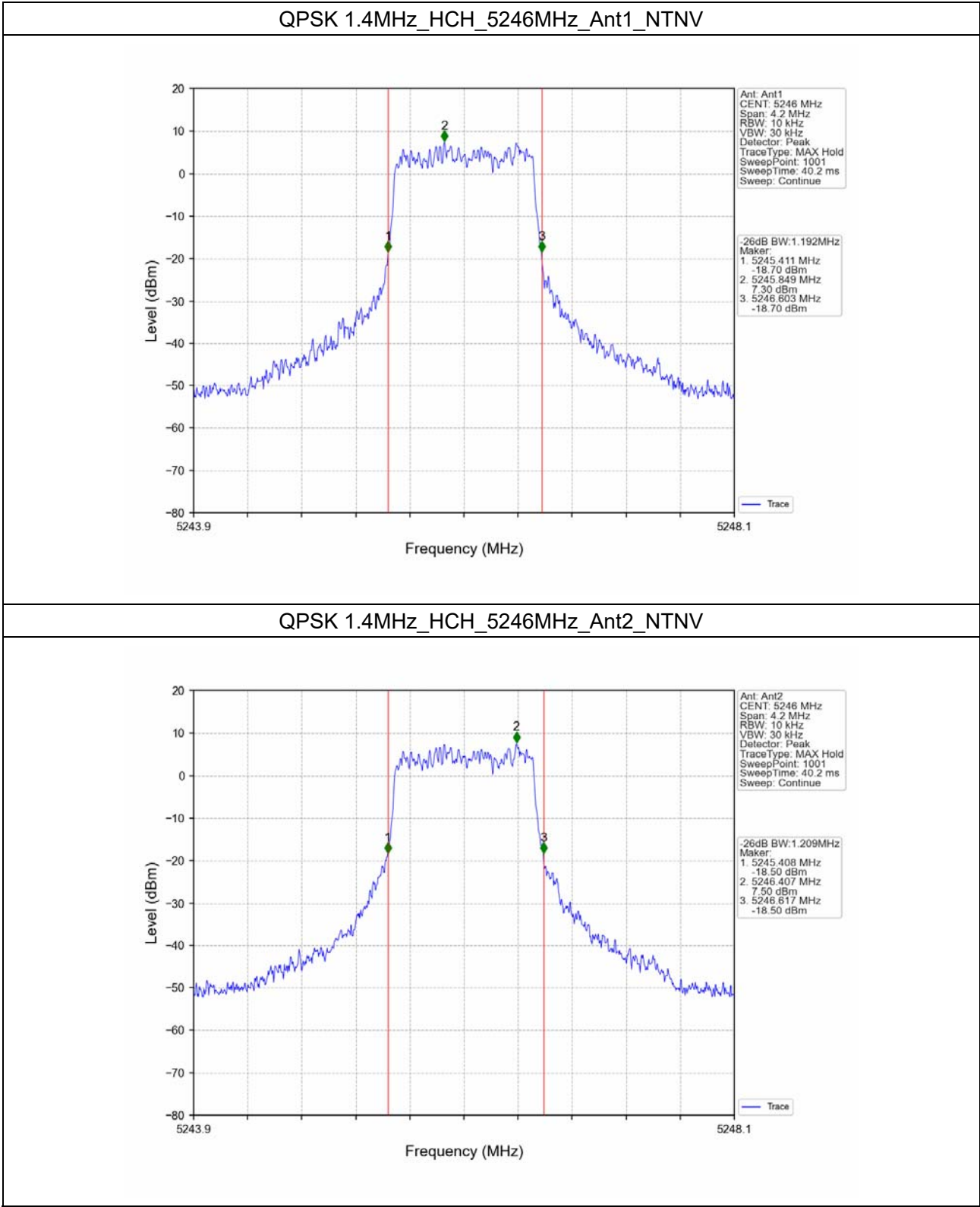
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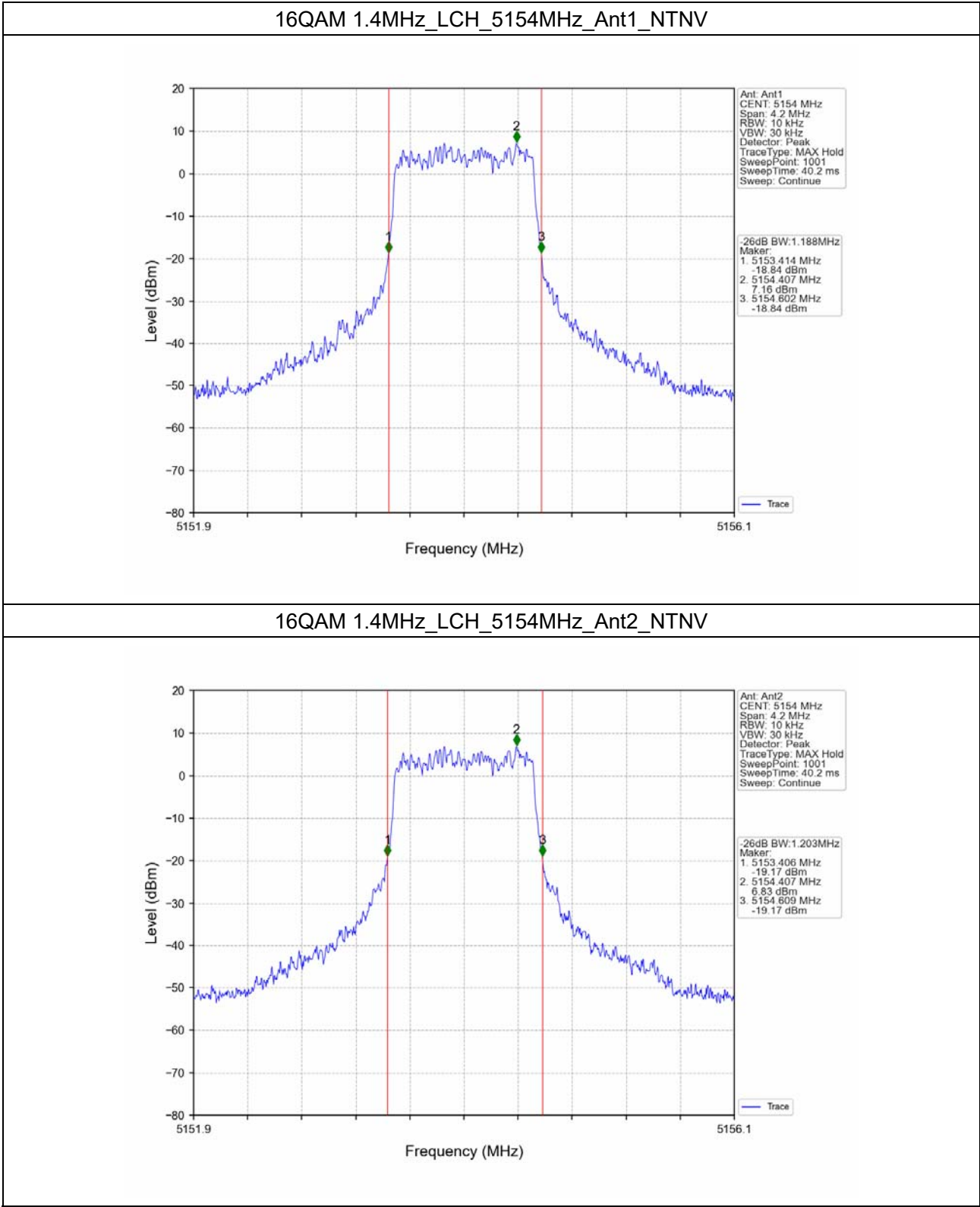
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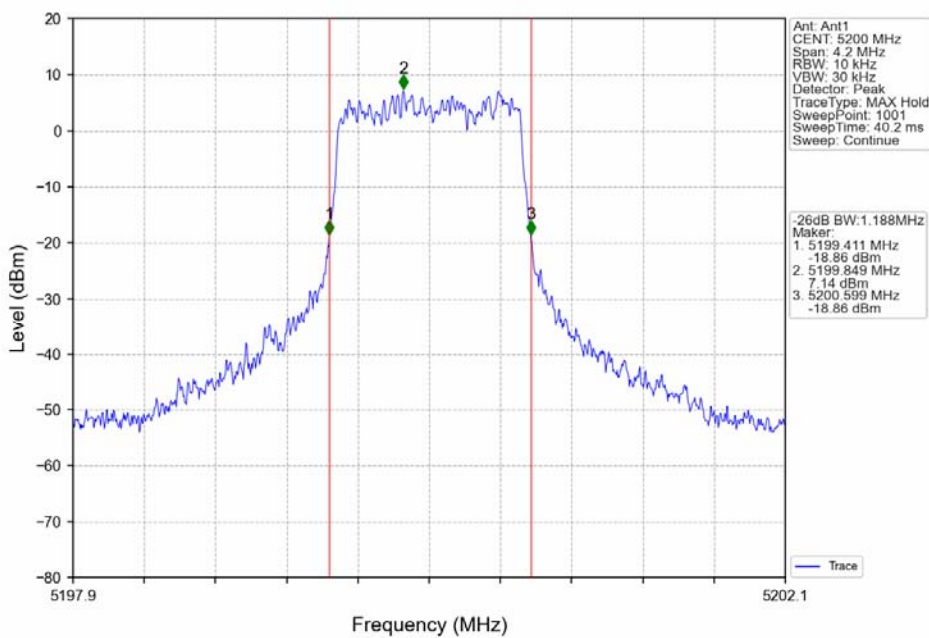
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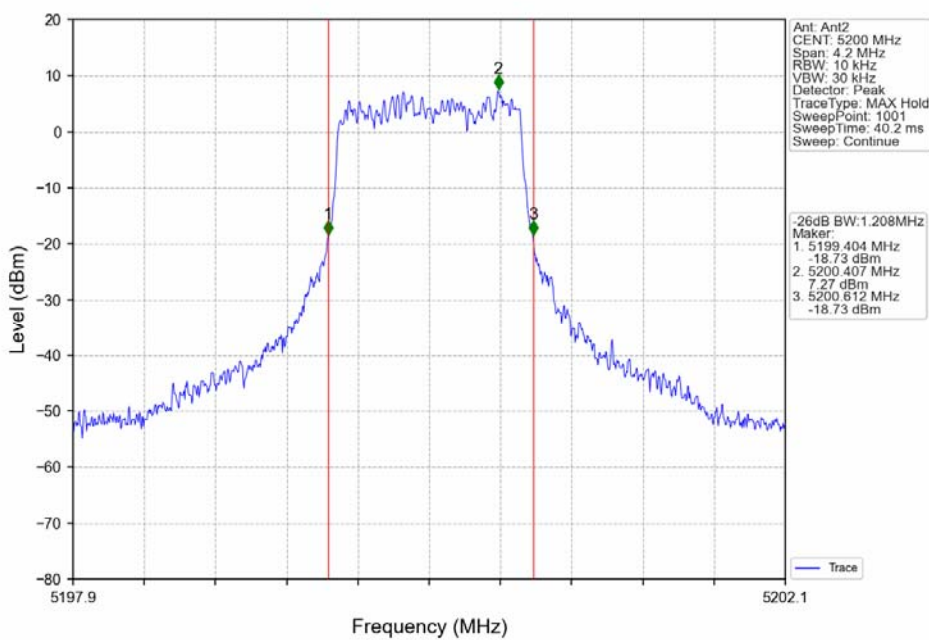
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16QAM 1.4MHz_MCH_5200MHz_Ant1_NTNV



16QAM 1.4MHz_MCH_5200MHz_Ant2_NTNV



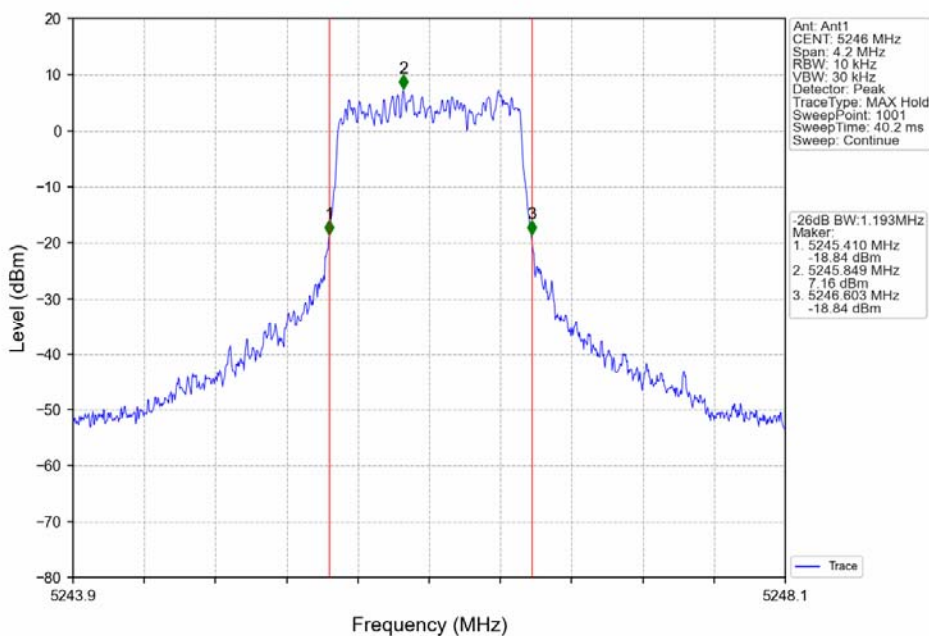
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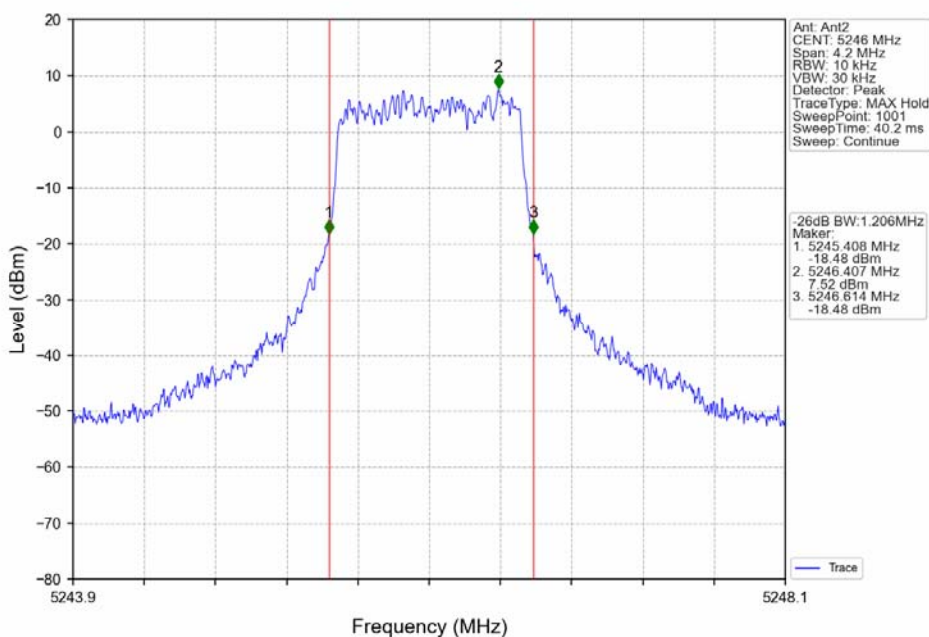
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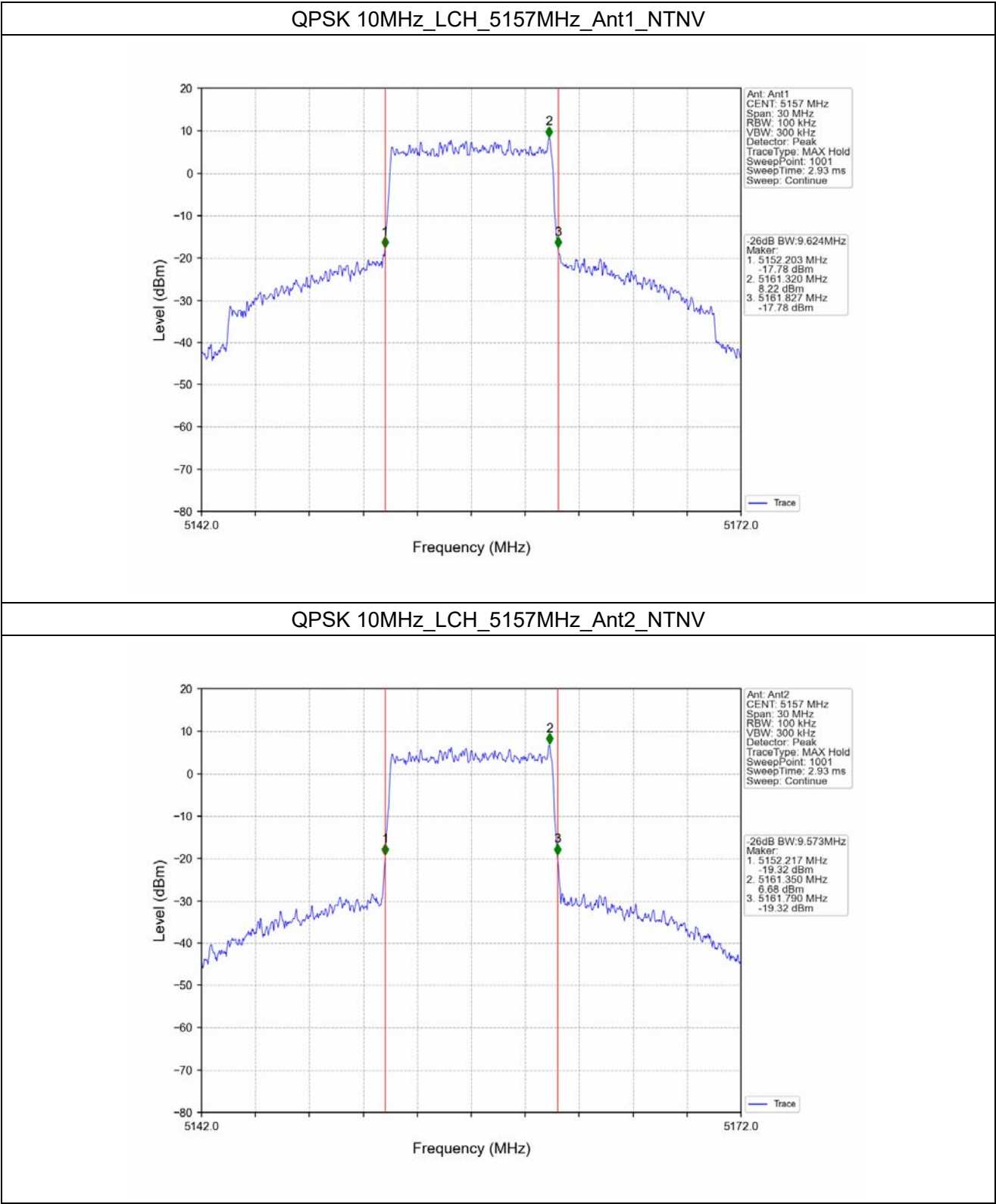
16QAM 1.4MHz_HCH_5246MHz_Ant1_NTNV



16QAM 1.4MHz_HCH_5246MHz_Ant2_NTNV



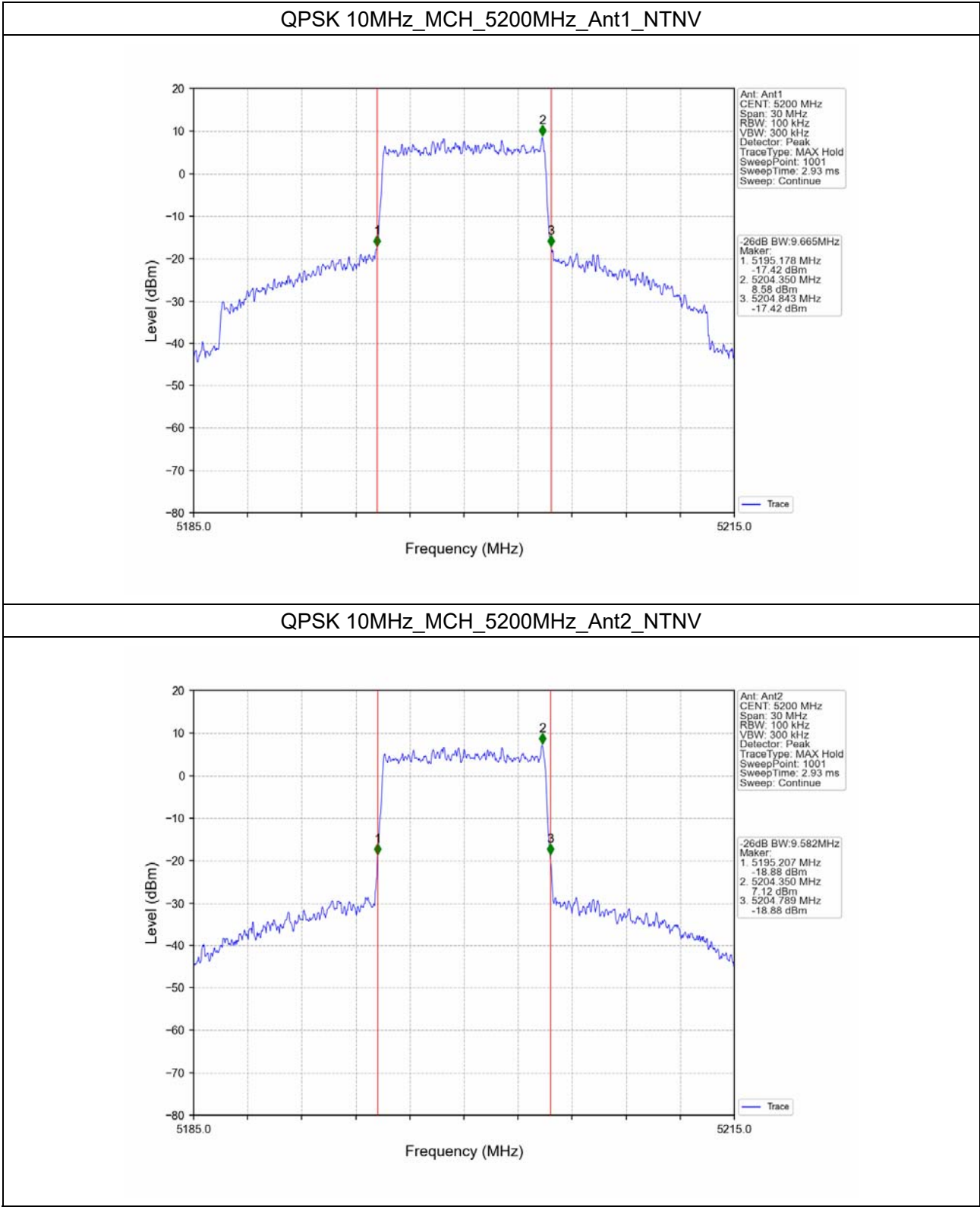
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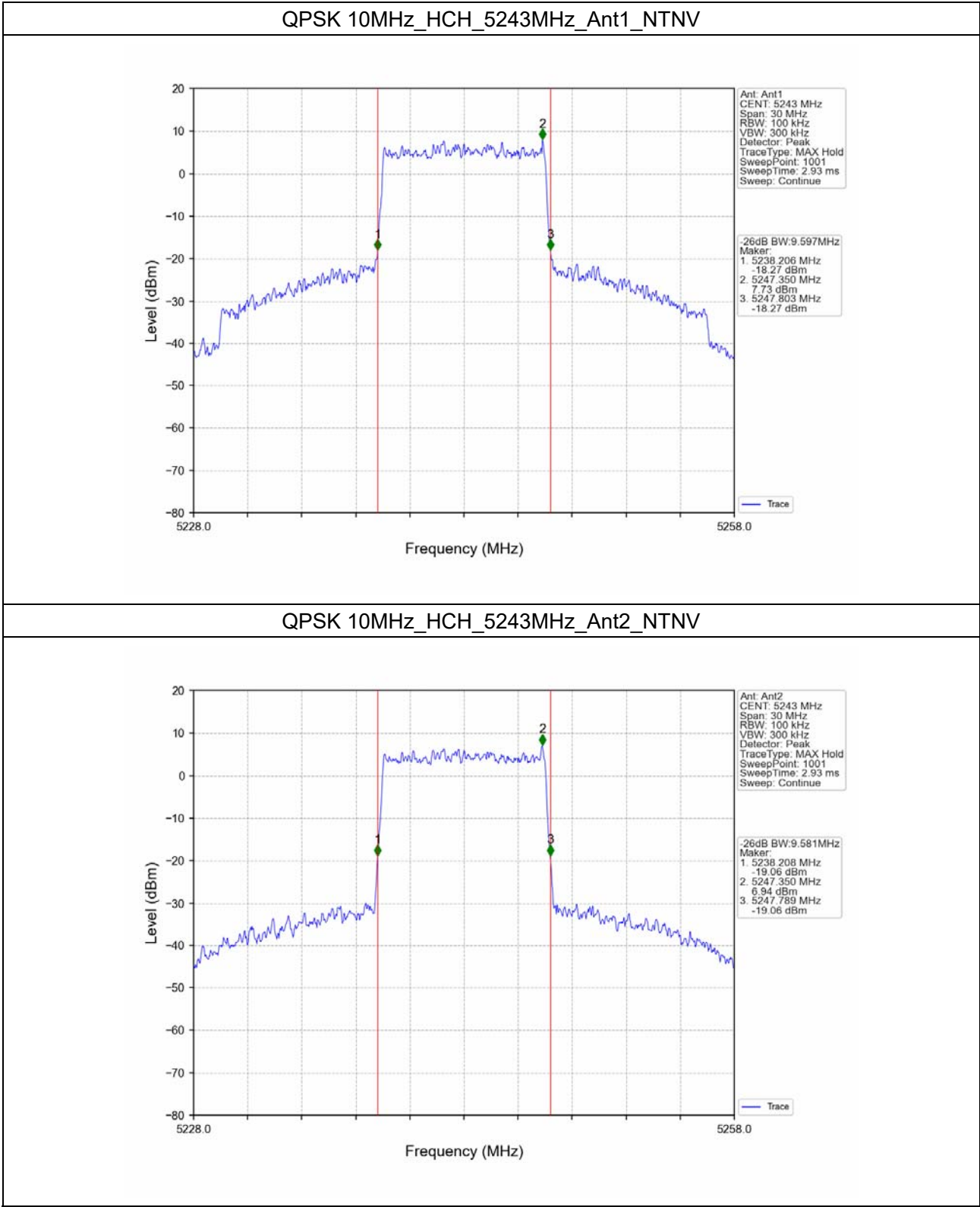
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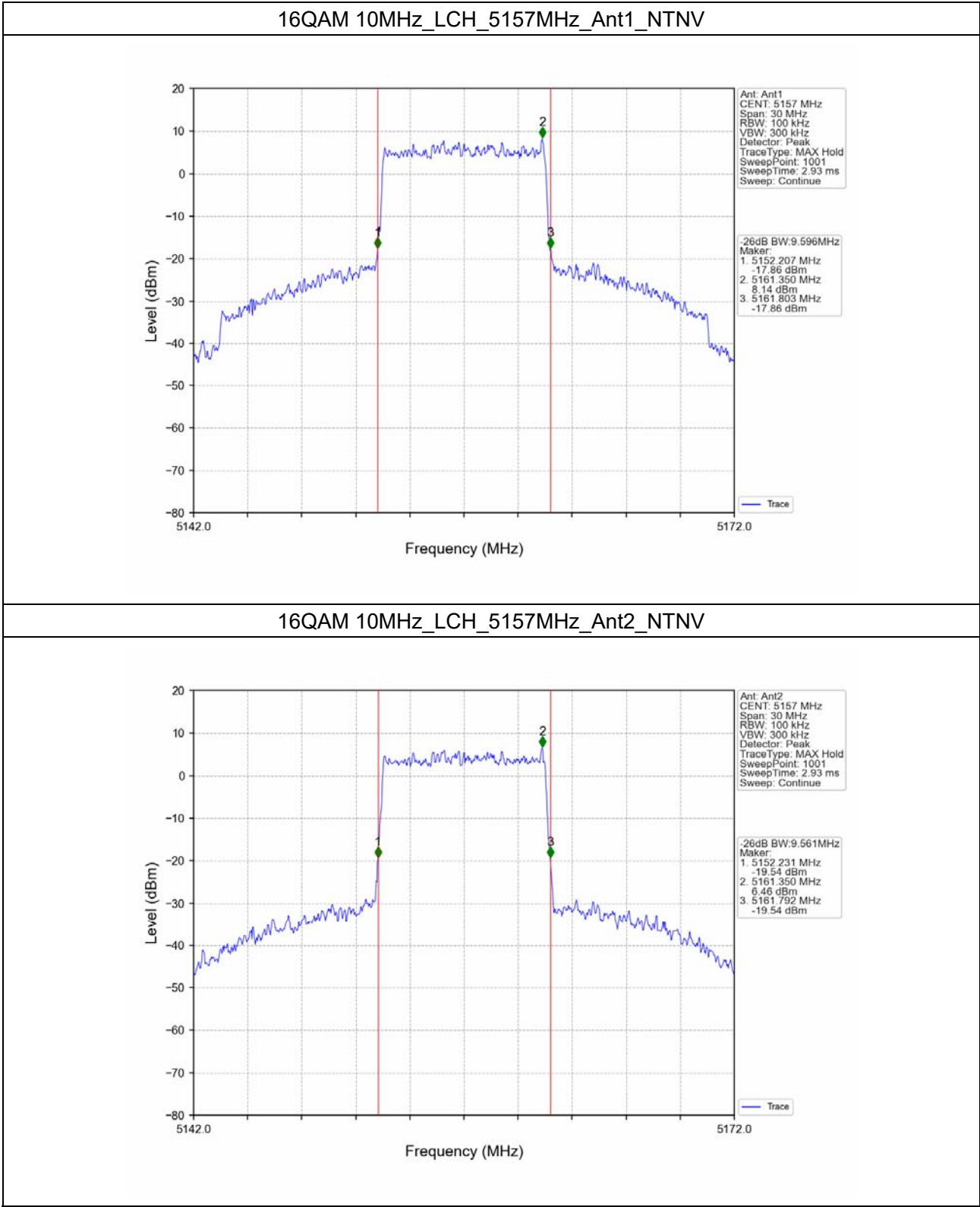
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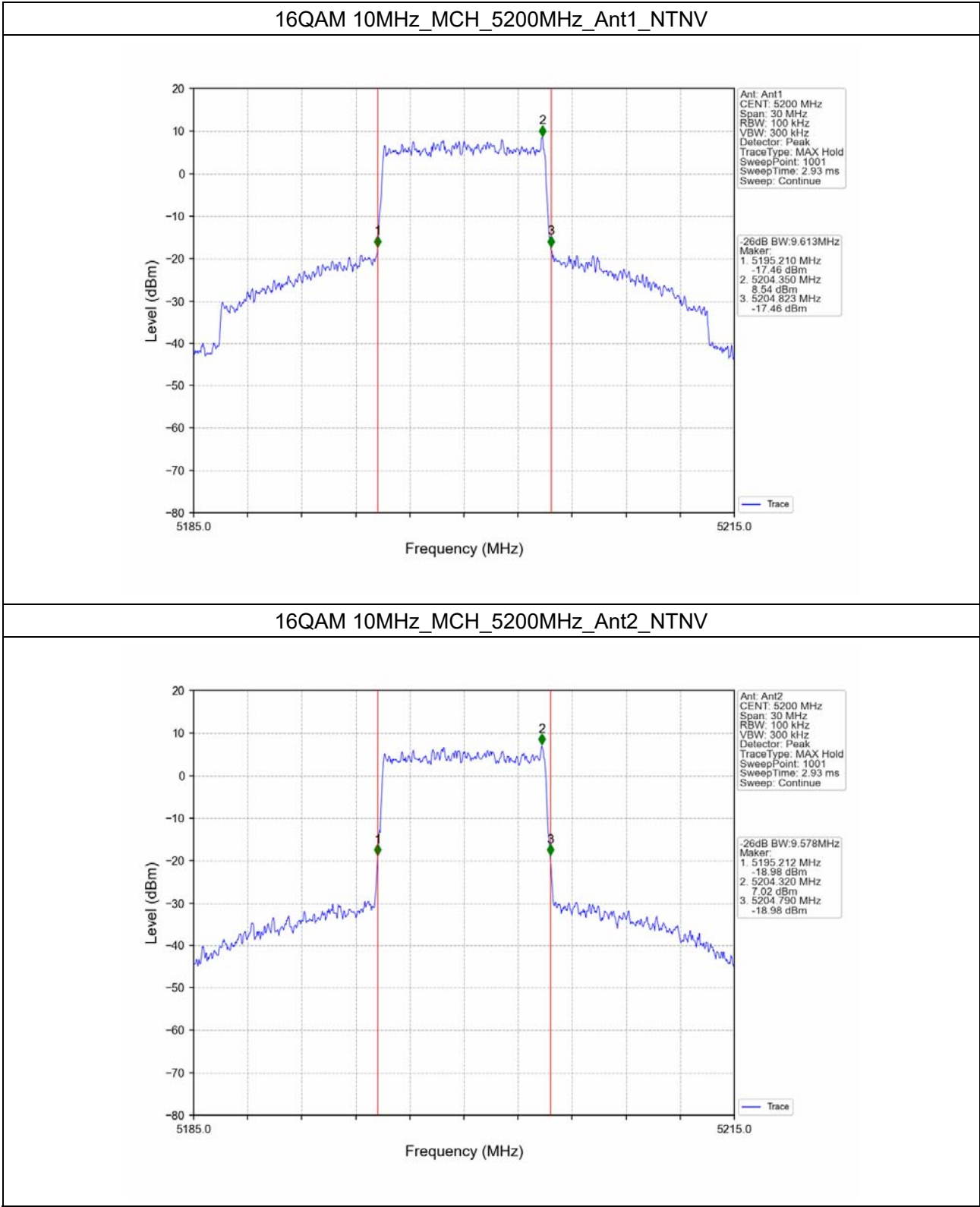
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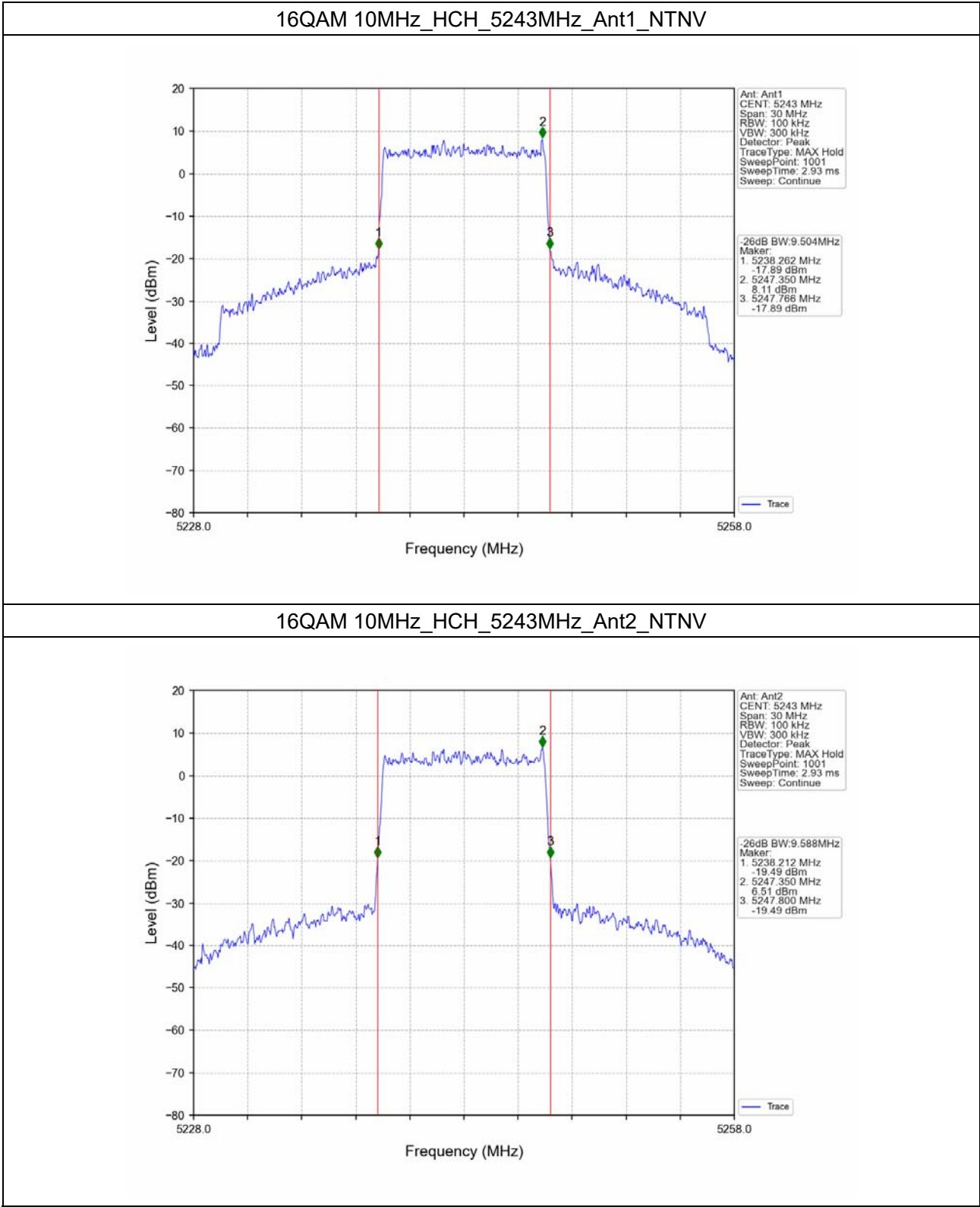
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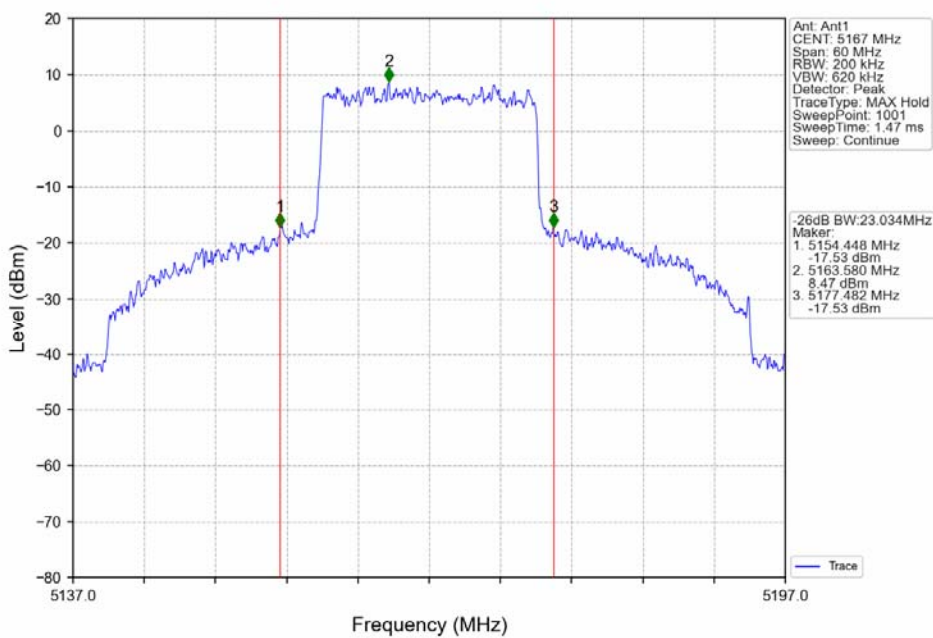
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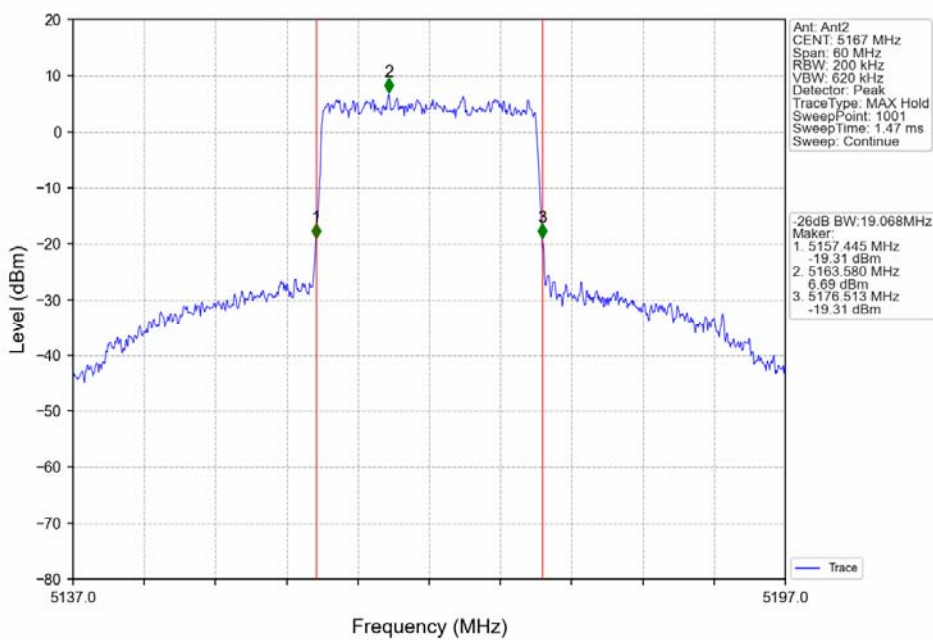
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QPSK 20MHz_LCH_5167MHz_Ant1_NTNV



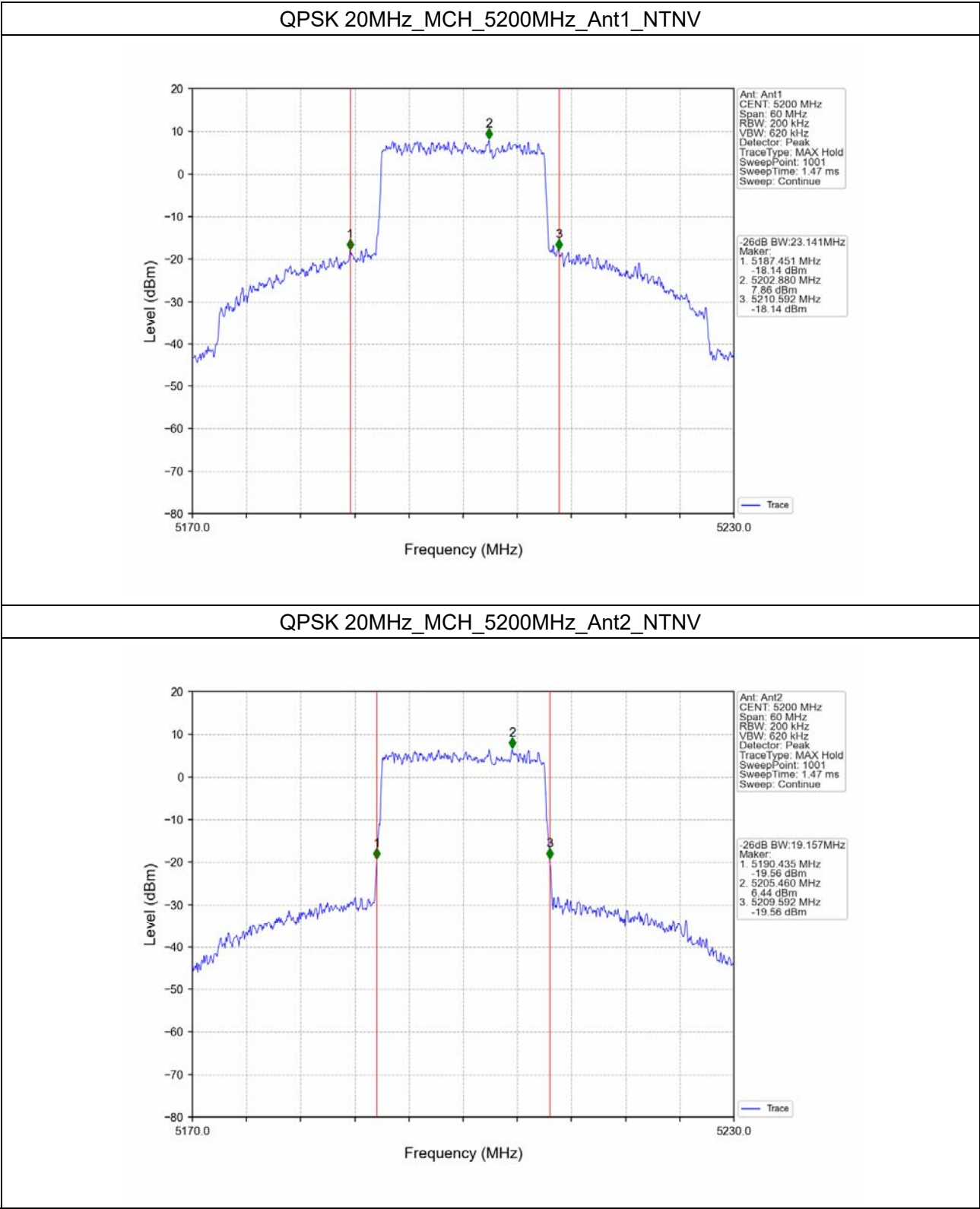
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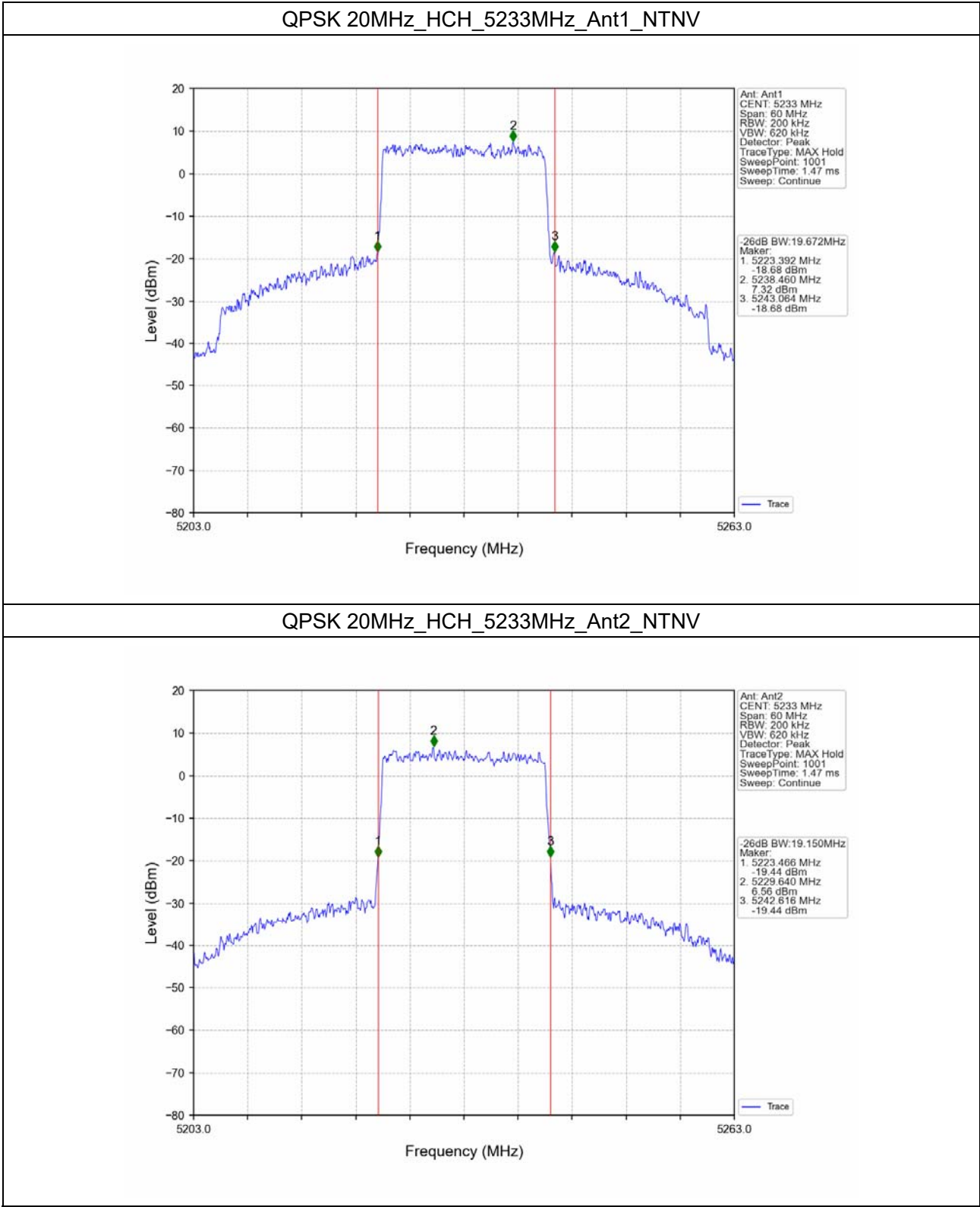
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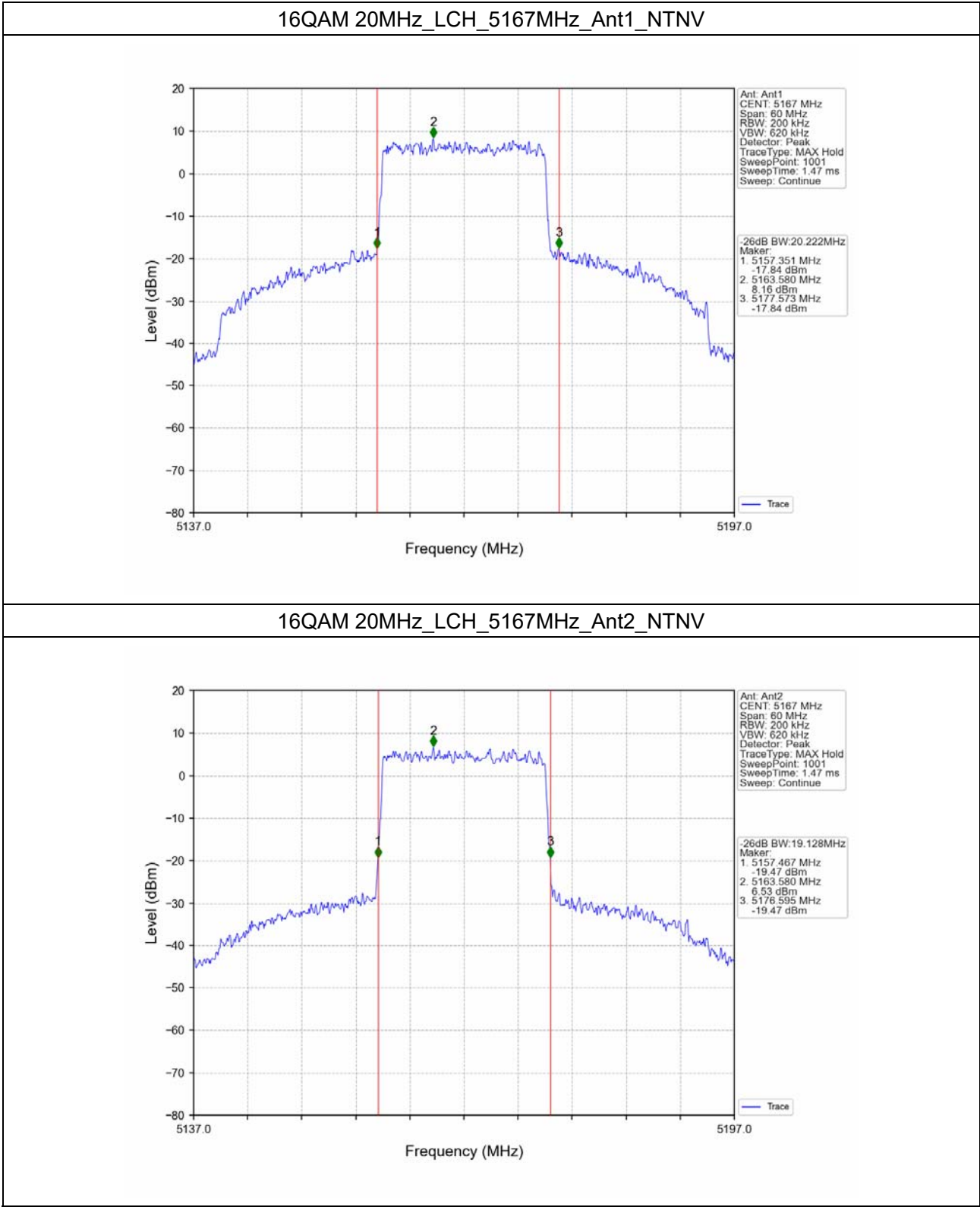
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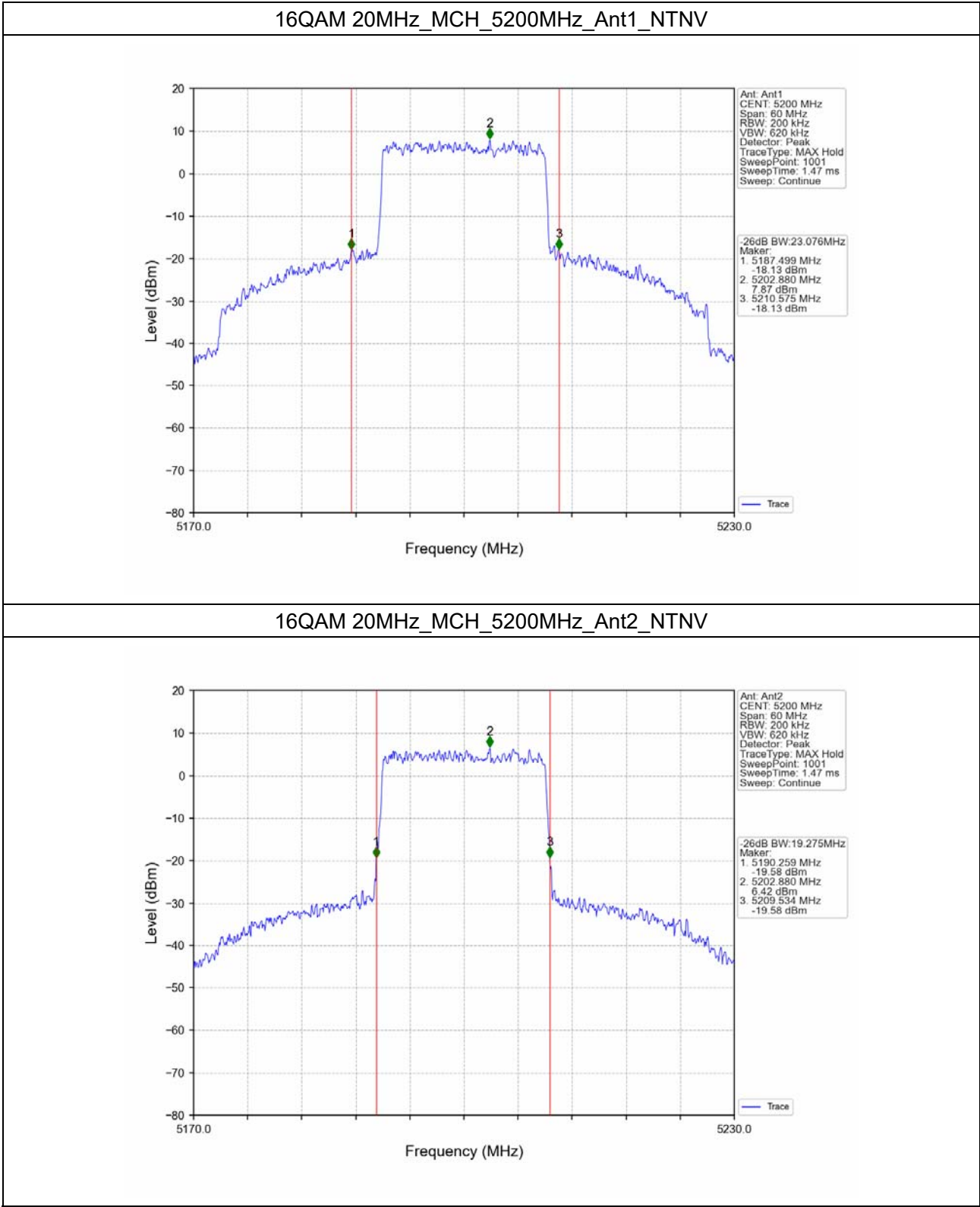
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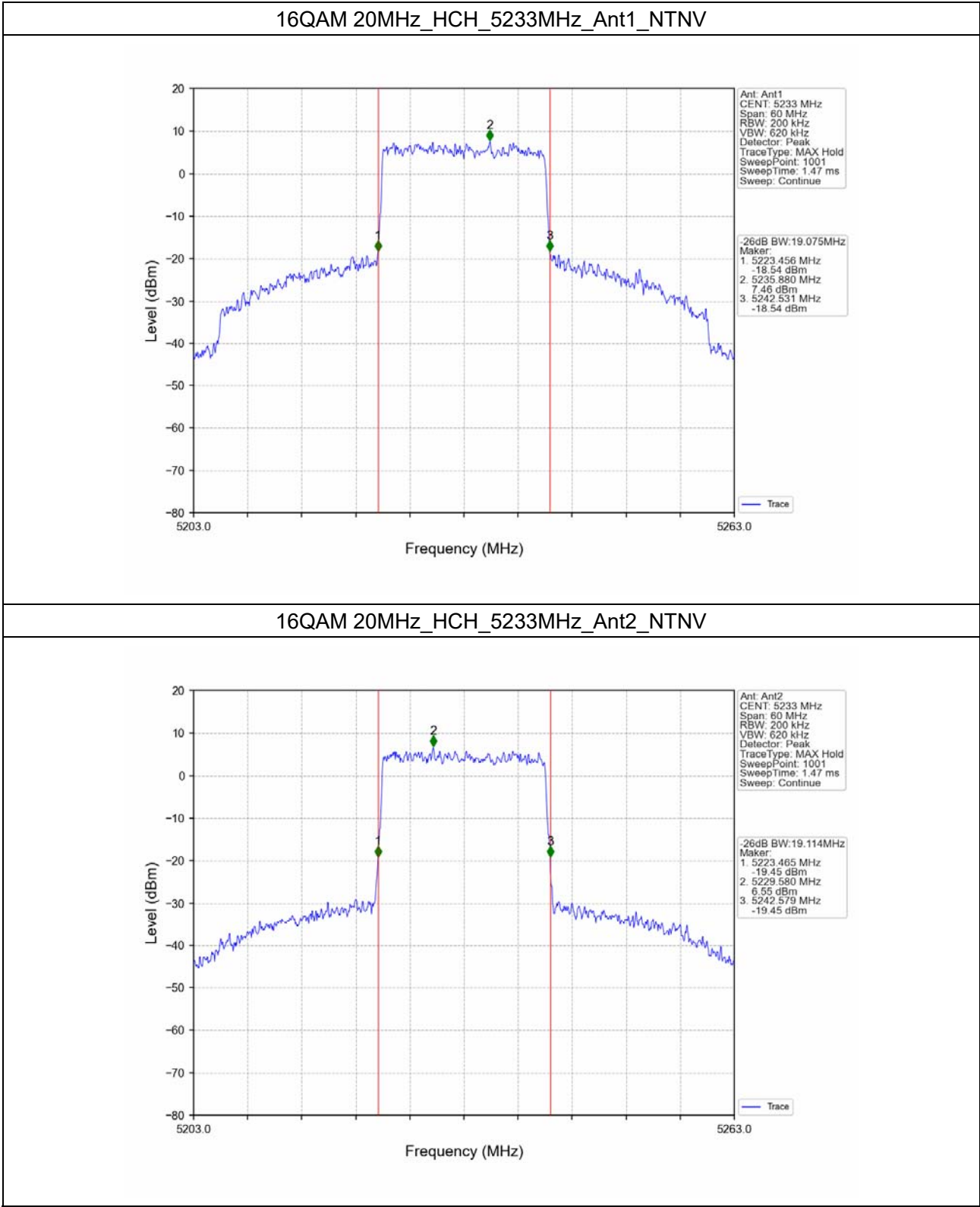
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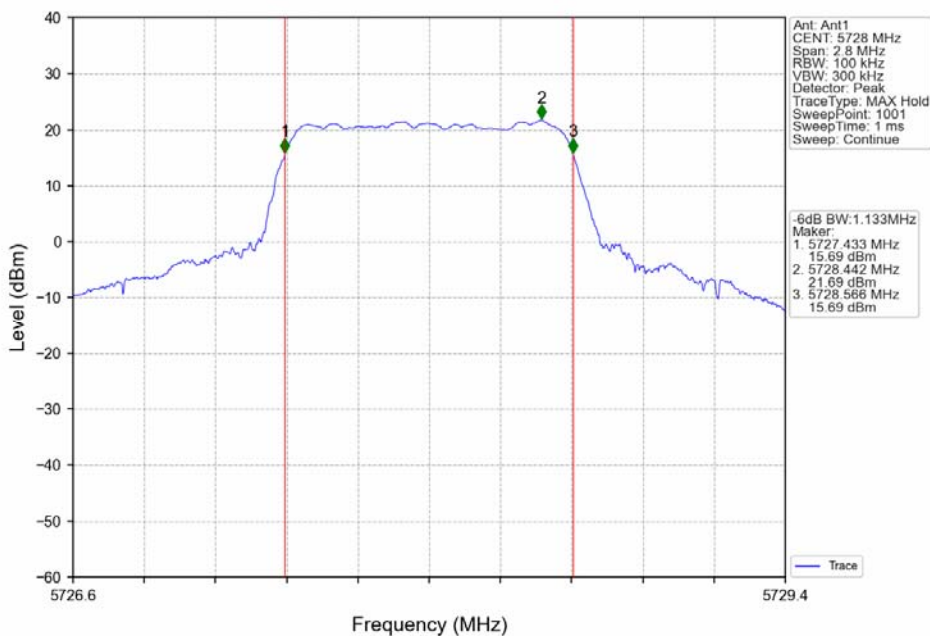
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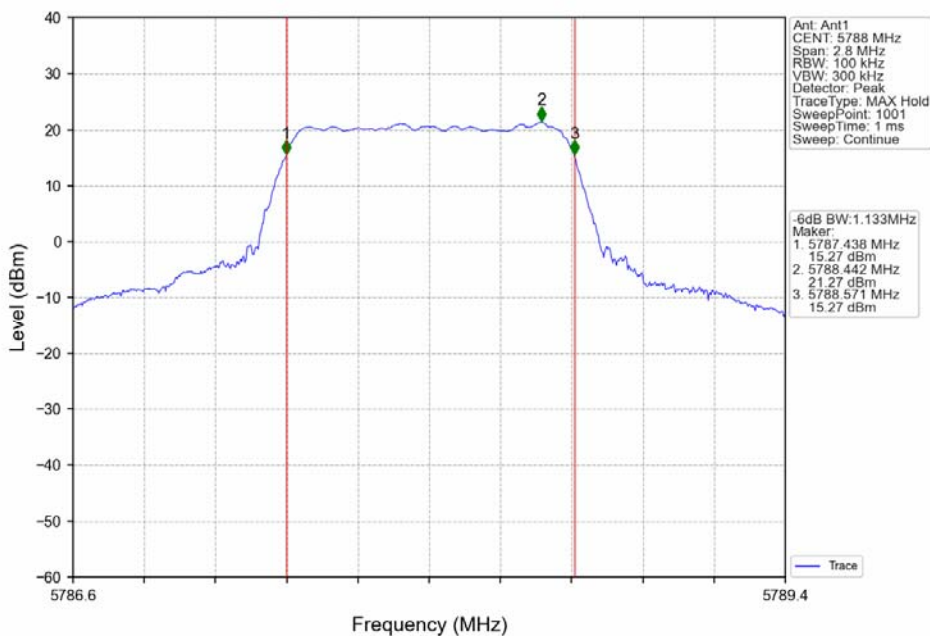
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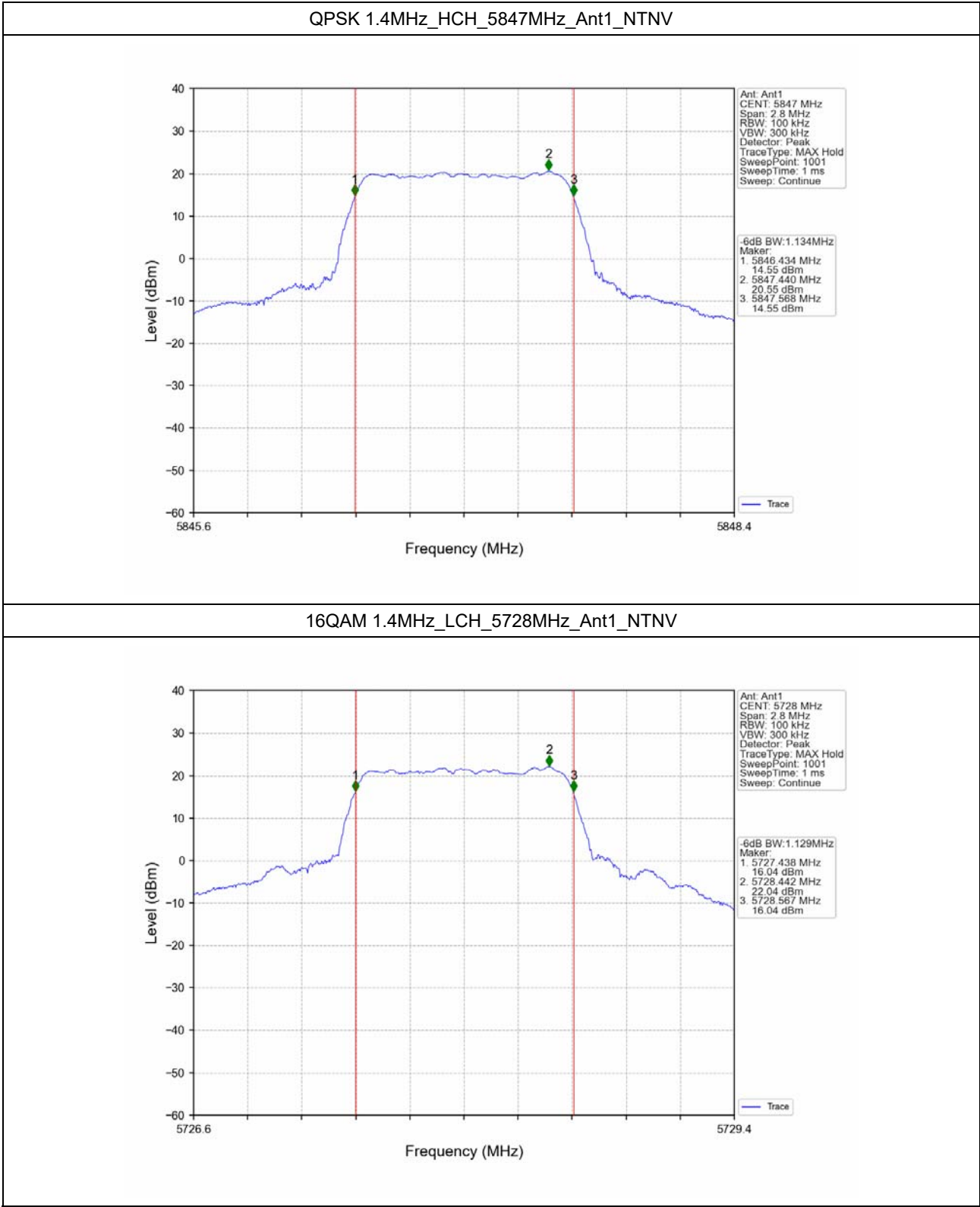
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QPSK 1.4MHz_MCH_5788MHz_Ant1_NTNV



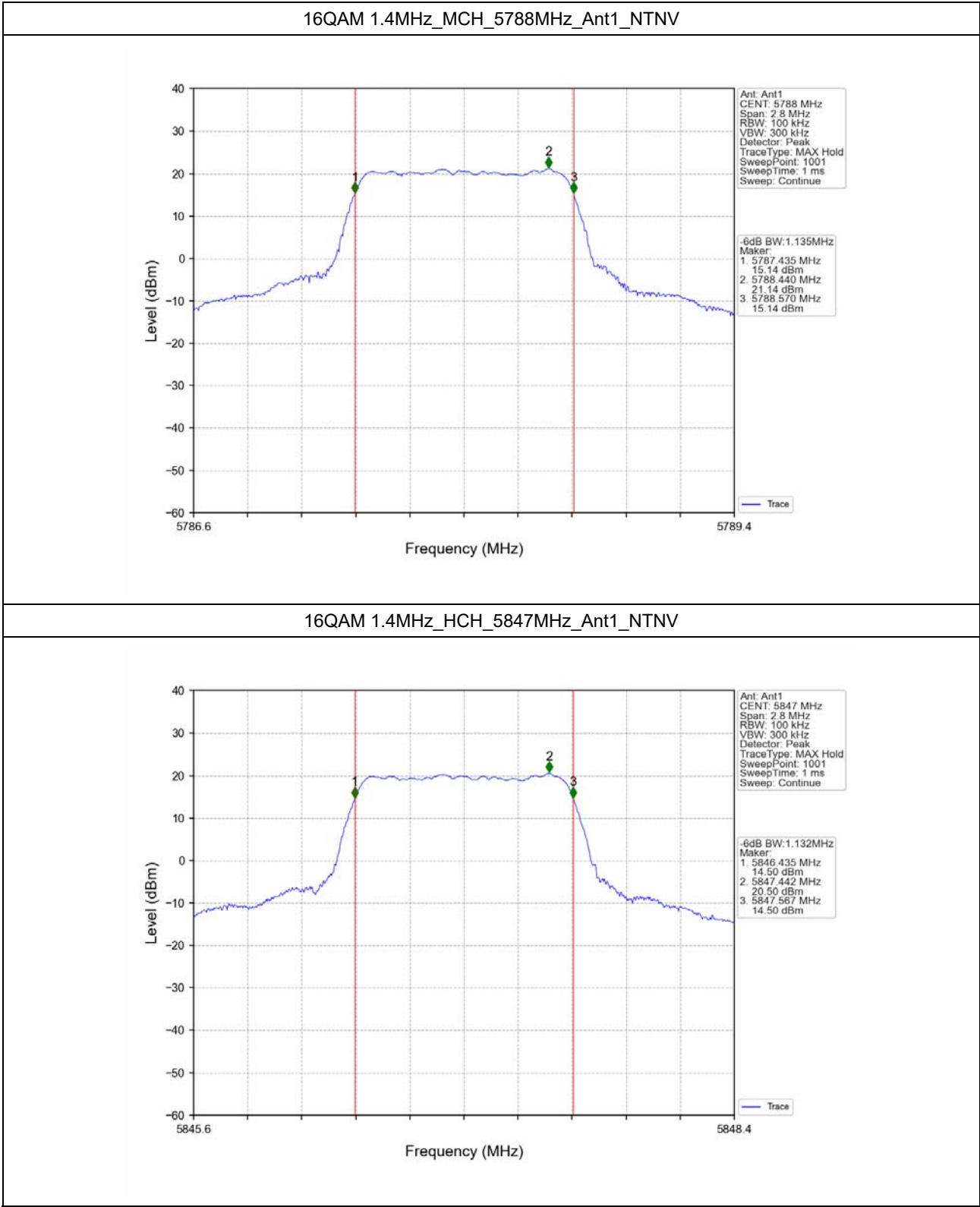
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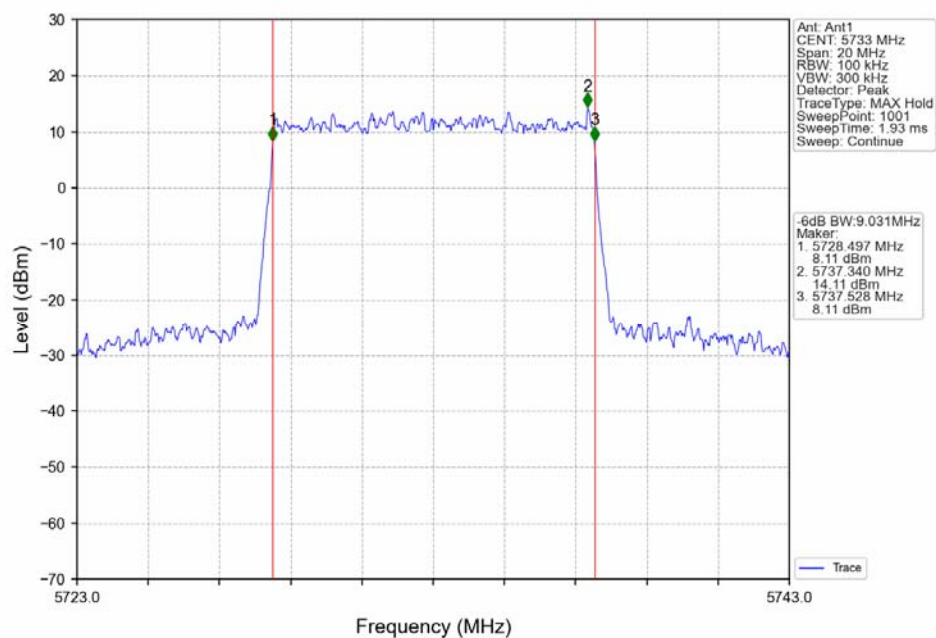
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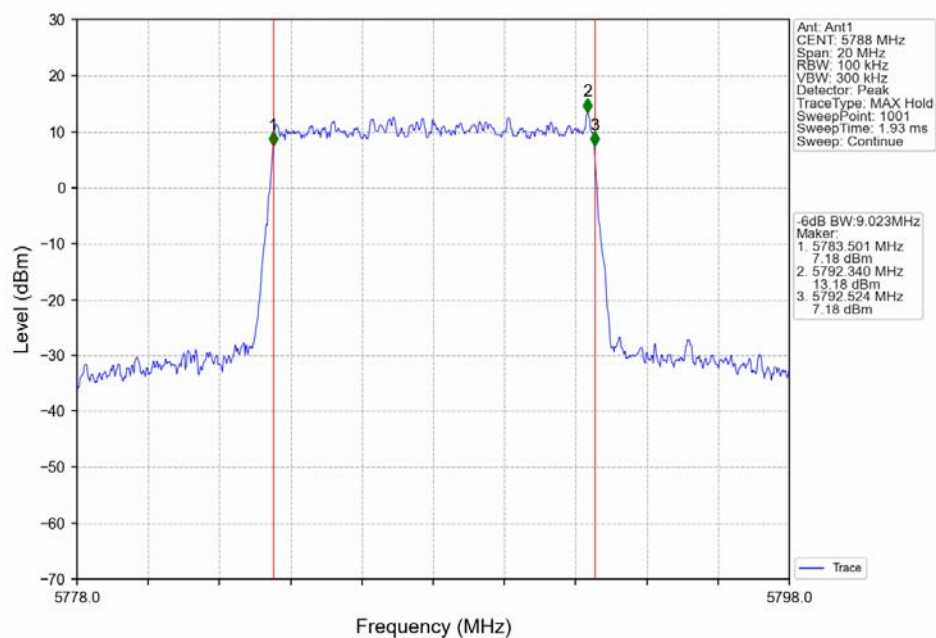
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QPSK 10MHz_LCH_5733MHz_Ant1_NTNV



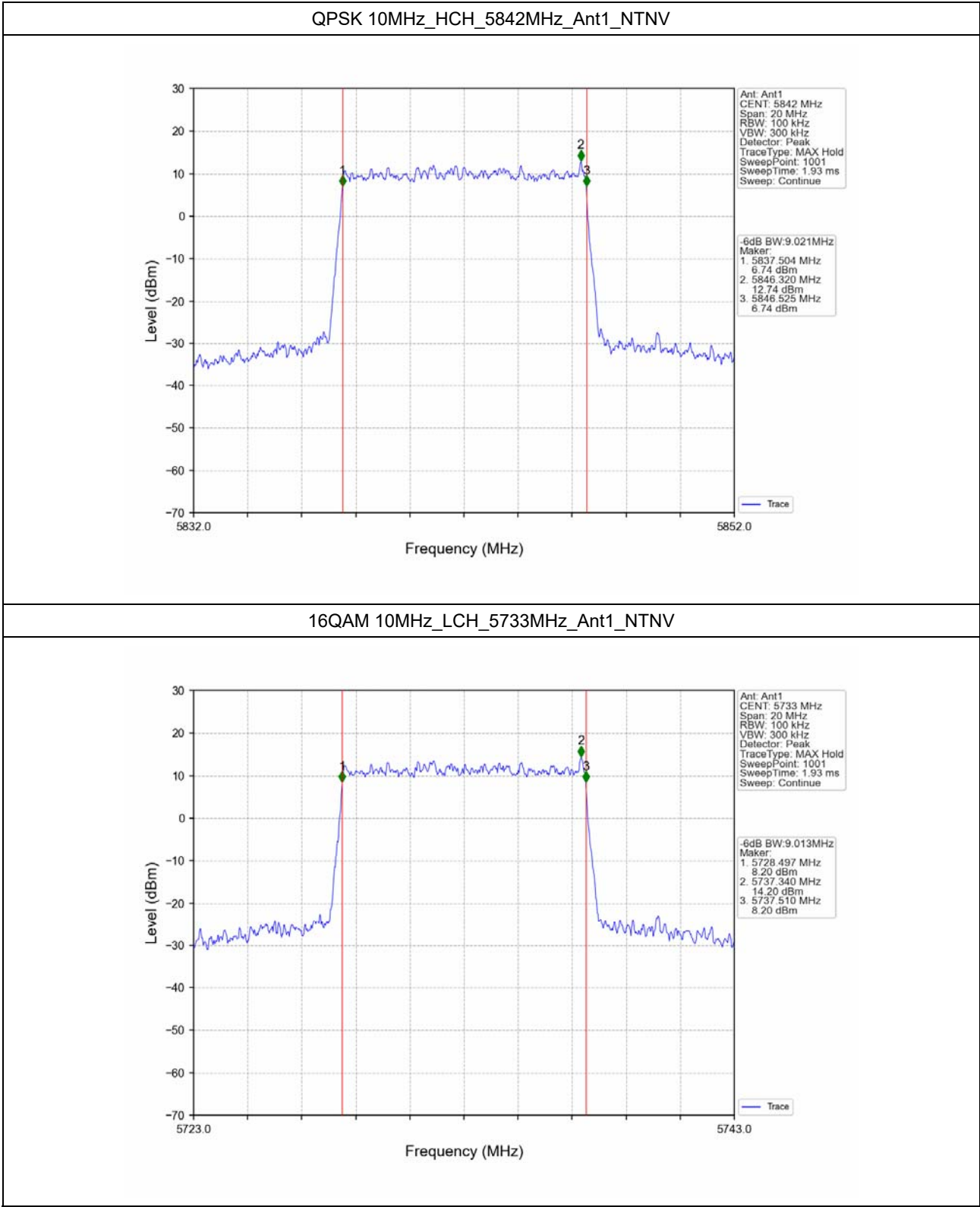
QPSK 10MHz_MCH_5788MHz_Ant1_NTNV



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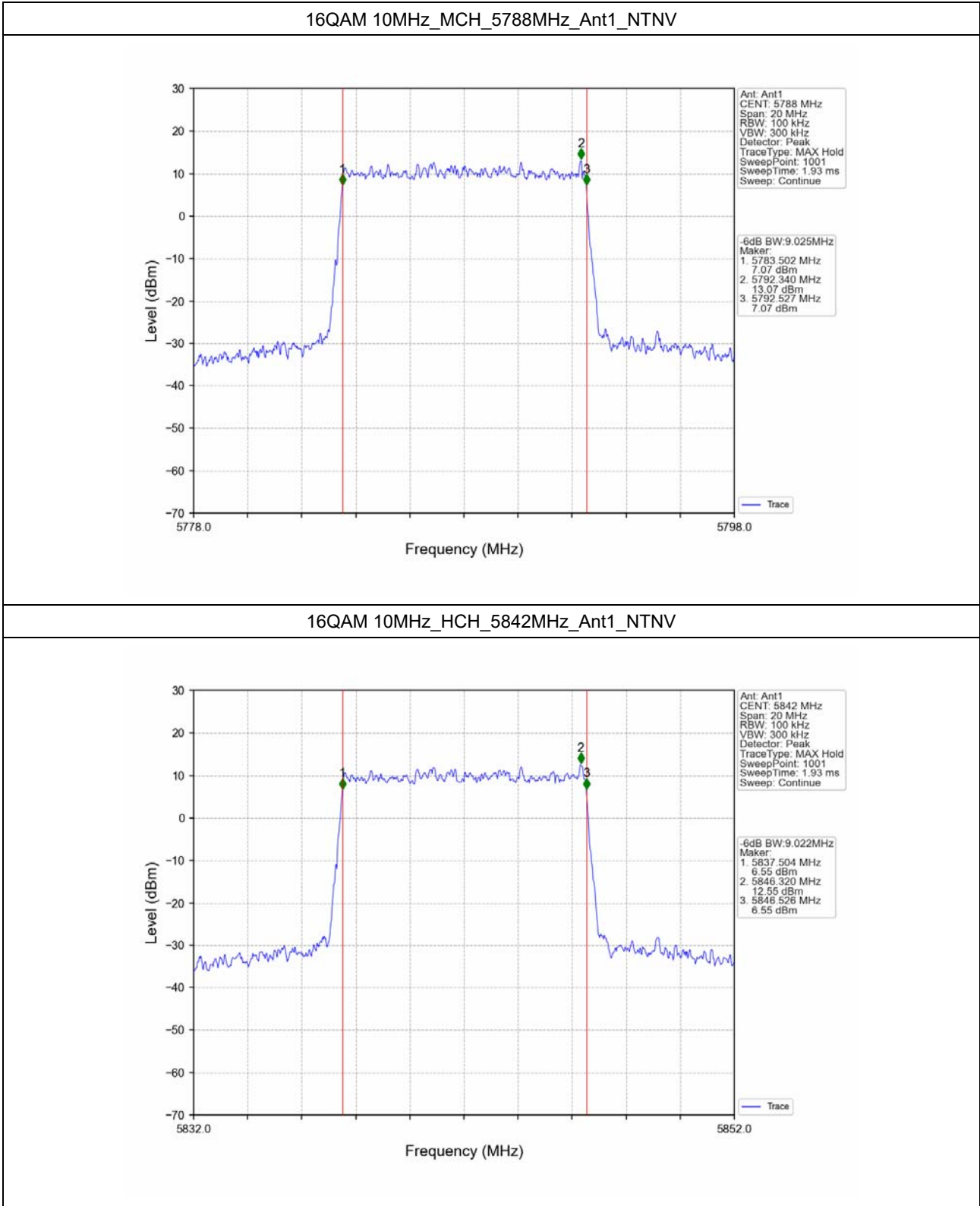
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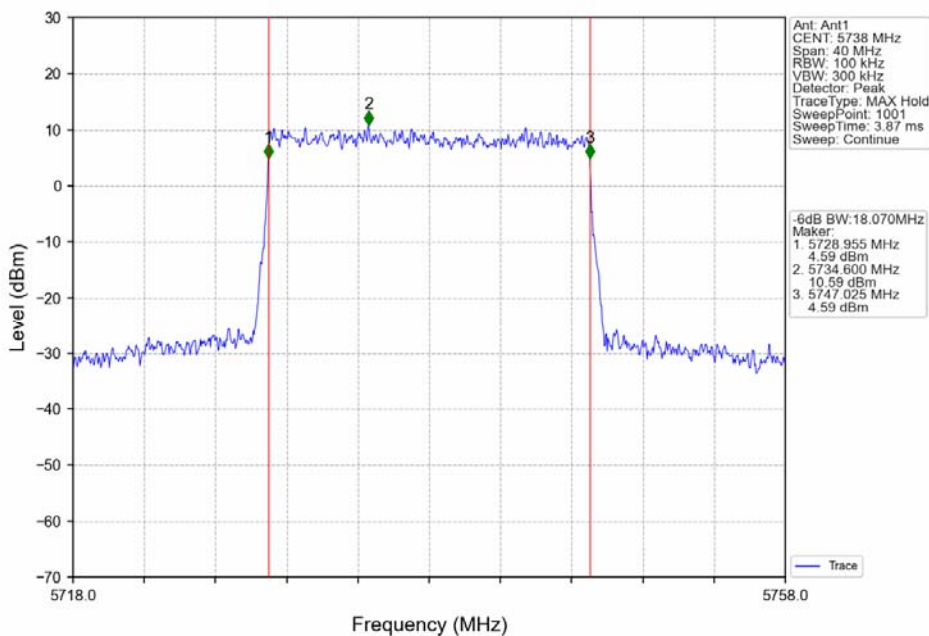
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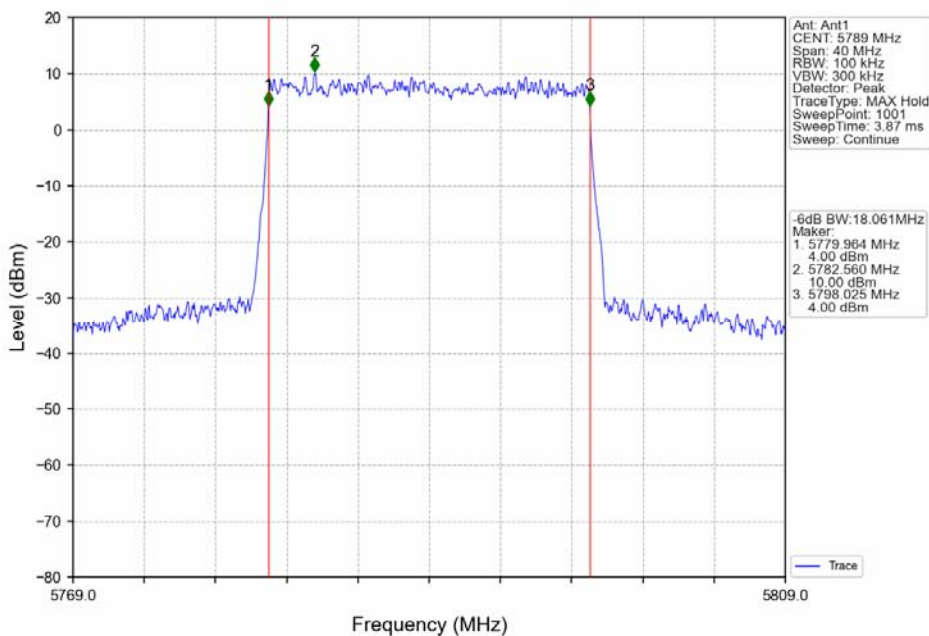
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QPSK 20MHz_LCH_5738MHz_Ant1_NTNV



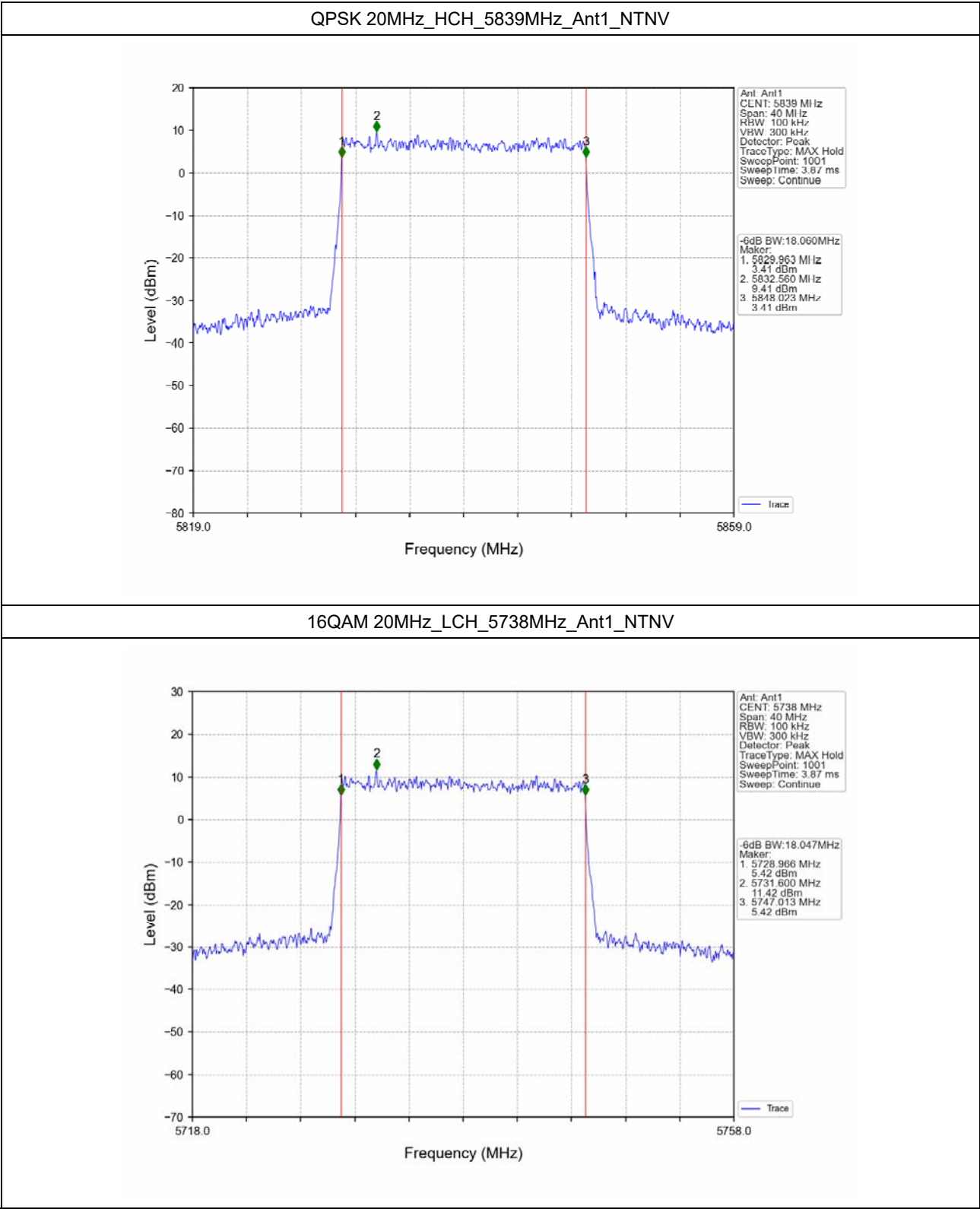
QPSK 20MHz_MCH_5789MHz_Ant1_NTNV



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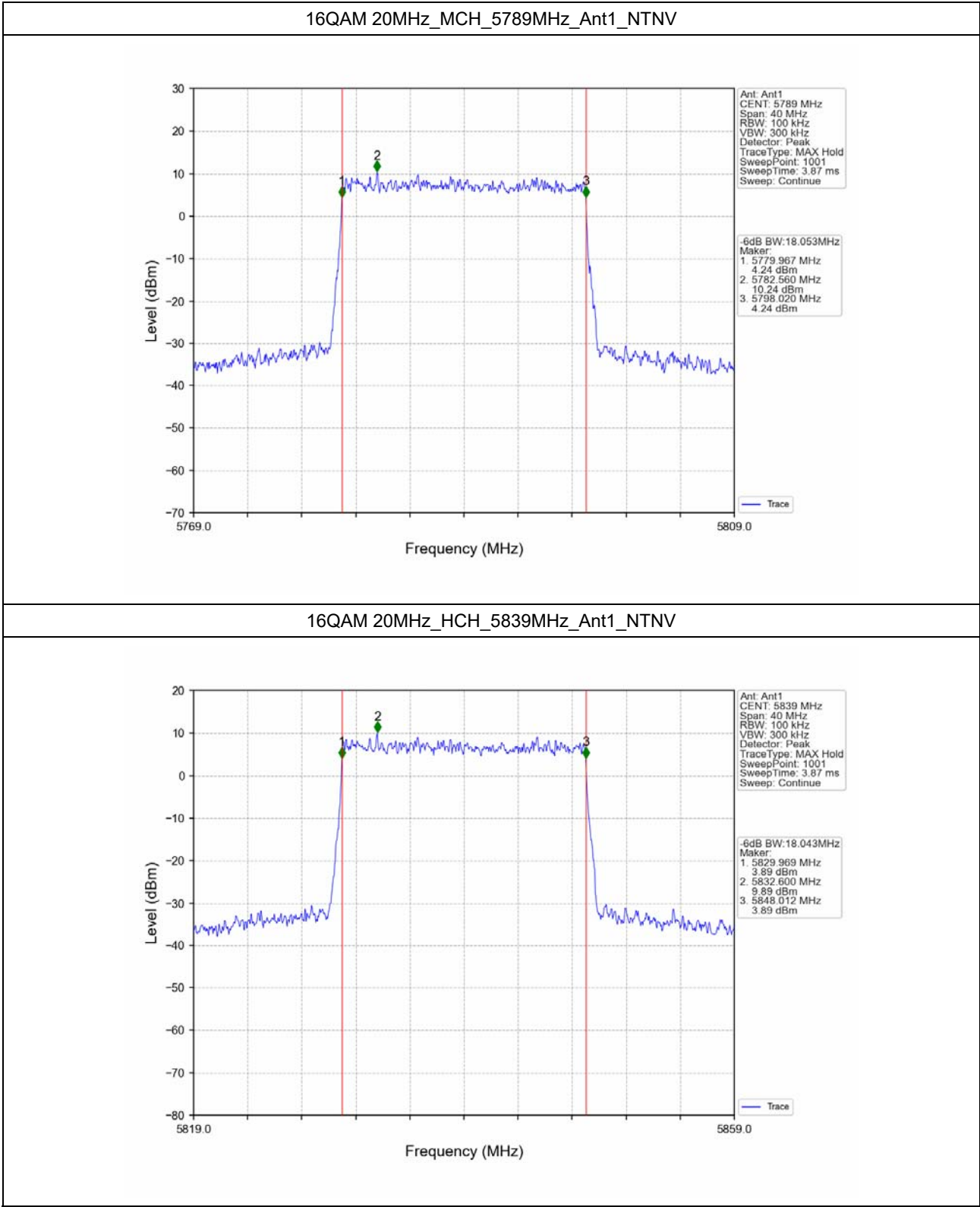
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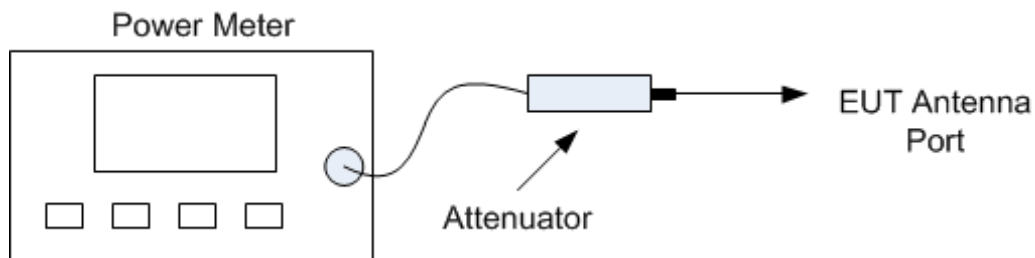
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8.0 Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1	✓	Outdoor Access Point	1 Watt (30 dBm) \cong (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	--		1 Watt (30 dBm)

Note: Where B is the 26dB emission bandwidth in MHz.

8.3 Test Procedure

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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8.4 Test Results

5G wifi

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	14.73	<=30	Pass
		5200	14.73	<=30	Pass
		5240	14.26	<=30	Pass
		5745	15.14	<=30	Pass
		5785	14.94	<=30	Pass
		5825	14.79	<=30	Pass
802.11n (HT20)	SISO	5180	15.25	<=30	Pass
		5200	15.35	<=30	Pass
		5240	15.03	<=30	Pass
		5745	13.91	<=30	Pass
		5785	13.74	<=30	Pass
		5825	13.54	<=30	Pass
802.11n (HT40)	SISO	5190	14.60	<=30	Pass
		5230	14.33	<=30	Pass
		5755	14.65	<=30	Pass
		5795	14.38	<=30	Pass
802.11ac (VHT20)	SISO	5180	14.11	<=30	Pass
		5200	14.06	<=30	Pass
		5240	13.52	<=30	Pass
		5745	14.59	<=30	Pass
		5785	14.47	<=30	Pass
		5825	14.33	<=30	Pass
802.11ac (VHT40)	SISO	5190	13.07	<=30	Pass
		5230	12.78	<=30	Pass
		5755	13.96	<=30	Pass
		5795	13.66	<=30	Pass
802.11ac (VHT80)	SISO	5210	13.01	<=30	Pass
		5775	13.63	<=30	Pass

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5G transfer image
For external antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5154	12.40	13.26	15.86	<=30	Pass
		5200	12.49	12.79	15.65	<=30	Pass
		5246	12.04	12.75	15.42	<=30	Pass
16QAM 1.4MHz	MIMO	5154	11.72	12.54	15.16	<=30	Pass
		5200	11.90	12.24	15.08	<=30	Pass
		5246	11.34	12.05	14.72	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5157	12.42	13.32	15.90	<=30	Pass
		5200	12.59	12.84	15.73	<=30	Pass
		5243	12.37	13.12	15.77	<=30	Pass
16QAM 10MHz	MIMO	5157	12.04	12.96	15.53	<=30	Pass
		5200	12.44	13.02	15.75	<=30	Pass
		5243	12.12	12.96	15.57	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5167	12.39	13.26	15.86	<=30	Pass
		5200	12.32	12.99	15.68	<=30	Pass
		5233	11.57	12.29	14.96	<=30	Pass
16QAM 20MHz	MIMO	5167	11.97	12.64	15.33	<=30	Pass
		5200	11.73	12.31	15.04	<=30	Pass
		5233	10.99	11.48	14.25	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5728	21.78	24.23	26.19	<=30	Pass
		5788	21.36	23.79	25.75	<=30	Pass
		5847	20.71	22.55	24.74	<=30	Pass
16QAM 1.4MHz	MIMO	5728	22.16	24.23	26.33	<=30	Pass
		5788	21.29	23.85	25.77	<=30	Pass
		5847	20.67	22.54	24.72	<=30	Pass

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Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5733	21.94	22.85	25.43	<=30	Pass
		5788	20.95	22.31	24.69	<=30	Pass
		5842	20.31	21.29	23.84	<=30	Pass
16QAM 10MHz	MIMO	5733	21.94	22.91	25.46	<=30	Pass
		5788	20.92	22.29	24.67	<=30	Pass
		5842	20.32	21.27	23.83	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5738	22.26	23.22	25.78	<=30	Pass
		5789	21.33	22.58	25.01	<=30	Pass
		5839	20.61	21.50	24.09	<=30	Pass
16QAM 20MHz	MIMO	5738	22.24	23.17	25.74	<=30	Pass
		5789	21.34	22.54	24.99	<=30	Pass
		5839	20.66	21.57	24.15	<=30	Pass

For PCB antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5154	12.30	13.16	15.76	<=30	Pass
		5200	12.25	12.55	15.41	<=30	Pass
		5246	11.93	12.64	15.31	<=30	Pass
16QAM 1.4MHz	MIMO	5154	11.46	12.28	14.90	<=30	Pass
		5200	11.71	12.05	14.89	<=30	Pass
		5246	11.09	11.80	14.47	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5157	12.31	13.21	15.79	<=30	Pass
		5200	12.31	12.56	15.45	<=30	Pass
		5243	12.14	12.89	15.54	<=30	Pass
16QAM 10MHz	MIMO	5157	11.89	12.81	15.38	<=30	Pass
		5200	12.17	12.75	15.48	<=30	Pass
		5243	12.00	12.84	15.45	<=30	Pass

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Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5167	12.26	13.13	15.73	<=30	Pass
		5200	12.07	12.74	15.43	<=30	Pass
		5233	11.40	12.12	14.79	<=30	Pass
16QAM 20MHz	MIMO	5167	11.75	12.42	15.11	<=30	Pass
		5200	11.52	12.10	14.83	<=30	Pass
		5233	10.85	11.34	14.11	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5728	20.45	22.90	24.86	<=30	Pass
		5788	20.02	22.45	24.41	<=30	Pass
		5847	19.42	21.26	23.45	<=30	Pass
16QAM 1.4MHz	MIMO	5728	20.83	22.90	25.00	<=30	Pass
		5788	19.92	22.48	24.40	<=30	Pass
		5847	19.36	21.23	23.41	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5733	21.66	22.57	25.15	<=30	Pass
		5788	20.62	21.98	24.36	<=30	Pass
		5842	20.03	21.01	23.56	<=30	Pass
16QAM 10MHz	MIMO	5733	21.67	22.64	25.19	<=30	Pass
		5788	20.60	21.97	24.35	<=30	Pass
		5842	20.08	21.03	23.59	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5738	21.67	22.63	25.19	<=30	Pass
		5789	20.66	21.91	24.34	<=30	Pass
		5839	19.93	20.82	23.41	<=30	Pass
16QAM 20MHz	MIMO	5738	21.55	22.48	25.05	<=30	Pass
		5789	20.68	21.88	24.33	<=30	Pass
		5839	20.15	21.02	23.60	<=30	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

Note3: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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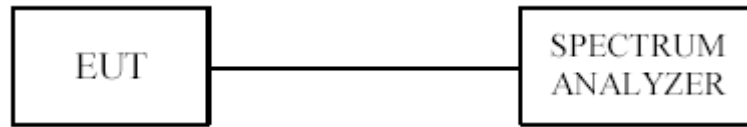
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1	✓	Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	--		30dBm/500kHz

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz for U-NII-1band, RBW = 300kHz for U-NII-3band
3. Set the VBW = 3MHz for U-NII-1band, RBW = 1MHz for U-NII-3band
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Note: For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.

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9.4 Test Result

5G wifi

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.39	<=17	Pass
		5200	2.73	<=17	Pass
		5240	4.94	<=17	Pass
802.11n (HT20)	SISO	5180	1.25	<=17	Pass
		5200	6.28	<=17	Pass
		5240	5.39	<=17	Pass
802.11n (HT40)	SISO	5190	2.60	<=17	Pass
		5230	1.67	<=17	Pass
802.11ac (VHT20)	SISO	5180	4.59	<=17	Pass
		5200	4.39	<=17	Pass
		5240	3.85	<=17	Pass
802.11ac (VHT40)	SISO	5190	0.54	<=17	Pass
		5230	0.27	<=17	Pass
802.11ac (VHT80)	SISO	5210	-1.86	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	3.61	<=30	Pass
		5785	-0.35	<=30	Pass
		5825	3.91	<=30	Pass
802.11n (HT20)	SISO	5745	4.65	<=30	Pass
		5785	2.16	<=30	Pass
		5825	2.37	<=30	Pass
802.11n (HT40)	SISO	5755	-0.53	<=30	Pass
		5795	-0.63	<=30	Pass
802.11ac (VHT20)	SISO	5745	2.68	<=30	Pass
		5785	2.49	<=30	Pass
		5825	2.40	<=30	Pass
802.11ac (VHT40)	SISO	5755	-0.97	<=30	Pass
		5795	-1.15	<=30	Pass
802.11ac (VHT80)	SISO	5775	-6.16	<=30	Pass

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5G transfer image

For external antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5154	13.53	14.37	16.97	<=17	Pass
		5200	13.66	13.99	16.74	<=17	Pass
		5246	13.14	13.93	16.56	<=17	Pass
16QAM 1.4MHz	MIMO	5154	12.91	13.82	16.33	<=17	Pass
		5200	13.07	13.32	16.13	<=17	Pass
		5246	12.62	13.27	15.87	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5157	3.95	5.03	7.44	<=17	Pass
		5200	4.13	4.30	7.22	<=17	Pass
		5243	3.95	4.74	7.28	<=17	Pass
16QAM 10MHz	MIMO	5157	3.53	4.63	7.02	<=17	Pass
		5200	3.91	4.59	7.27	<=17	Pass
		5243	3.65	4.51	7.05	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5167	0.62	1.70	4.09	<=17	Pass
		5200	0.75	1.47	4.00	<=17	Pass
		5233	-0.09	0.61	3.20	<=17	Pass
16QAM 20MHz	MIMO	5167	0.27	1.02	3.63	<=17	Pass
		5200	0.16	0.83	3.32	<=17	Pass
		5233	-0.69	-0.18	2.39	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5728	21.10	23.64	25.49	<=30	Pass
		5788	20.63	23.06	24.95	<=30	Pass
		5847	20.13	22.13	23.98	<=30	Pass
16QAM 1.4MHz	MIMO	5728	21.42	23.51	25.51	<=30	Pass
		5788	20.51	23.20	24.97	<=30	Pass
		5847	20.09	21.87	24.01	<=30	Pass

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Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5733	10.86	11.76	14.22	<=30	Pass
		5788	9.85	11.51	13.69	<=30	Pass
		5842	9.14	10.06	12.63	<=30	Pass
16QAM 10MHz	MIMO	5733	10.66	11.81	14.08	<=30	Pass
		5788	9.78	11.13	13.41	<=30	Pass
		5842	9.20	10.03	12.58	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5738	7.90	8.82	11.31	<=30	Pass
		5789	6.96	8.38	10.59	<=30	Pass
		5839	6.32	7.23	9.65	<=30	Pass
16QAM 20MHz	MIMO	5738	8.01	8.80	11.23	<=30	Pass
		5789	7.17	8.20	10.65	<=30	Pass
		5839	6.27	7.58	9.83	<=30	Pass

For PCB antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5154	12.99	13.83	16.43	<=17	Pass
		5200	13.12	13.45	16.20	<=17	Pass
		5246	12.60	13.39	16.02	<=17	Pass
16QAM 1.4MHz	MIMO	5154	12.37	13.28	15.79	<=17	Pass
		5200	12.53	12.78	15.59	<=17	Pass
		5246	12.08	12.73	15.33	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5157	3.45	4.53	6.94	<=17	Pass
		5200	3.63	3.80	6.72	<=17	Pass
		5243	3.45	4.24	6.78	<=17	Pass
16QAM 10MHz	MIMO	5157	3.03	4.13	6.52	<=17	Pass
		5200	3.41	4.09	6.77	<=17	Pass
		5243	3.15	4.01	6.55	<=17	Pass

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Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5167	0.08	1.16	3.55	<=17	Pass
		5200	0.21	0.93	3.46	<=17	Pass
		5233	-0.63	0.07	2.66	<=17	Pass
16QAM 20MHz	MIMO	5167	-0.27	0.48	3.09	<=17	Pass
		5200	-0.38	0.29	2.78	<=17	Pass
		5233	-1.23	-0.72	1.85	<=17	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	5728	19.80	22.34	24.19	<=30	Pass
		5788	19.33	21.76	23.65	<=30	Pass
		5847	18.83	20.83	22.68	<=30	Pass
16QAM 1.4MHz	MIMO	5728	20.12	22.21	24.21	<=30	Pass
		5788	19.21	21.90	23.67	<=30	Pass
		5847	18.79	20.57	22.71	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	5733	10.56	11.46	13.92	<=30	Pass
		5788	9.55	11.21	13.39	<=30	Pass
		5842	8.84	9.76	12.33	<=30	Pass
16QAM 10MHz	MIMO	5733	10.36	11.51	13.78	<=30	Pass
		5788	9.48	10.83	13.11	<=30	Pass
		5842	8.90	9.73	12.28	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	5738	7.20	8.12	10.61	<=30	Pass
		5789	6.26	7.68	9.89	<=30	Pass
		5839	5.62	6.53	8.95	<=30	Pass
16QAM 20MHz	MIMO	5738	7.31	8.10	10.53	<=30	Pass
		5789	6.47	7.50	9.95	<=30	Pass
		5839	5.57	6.88	9.13	<=30	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

Note3: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

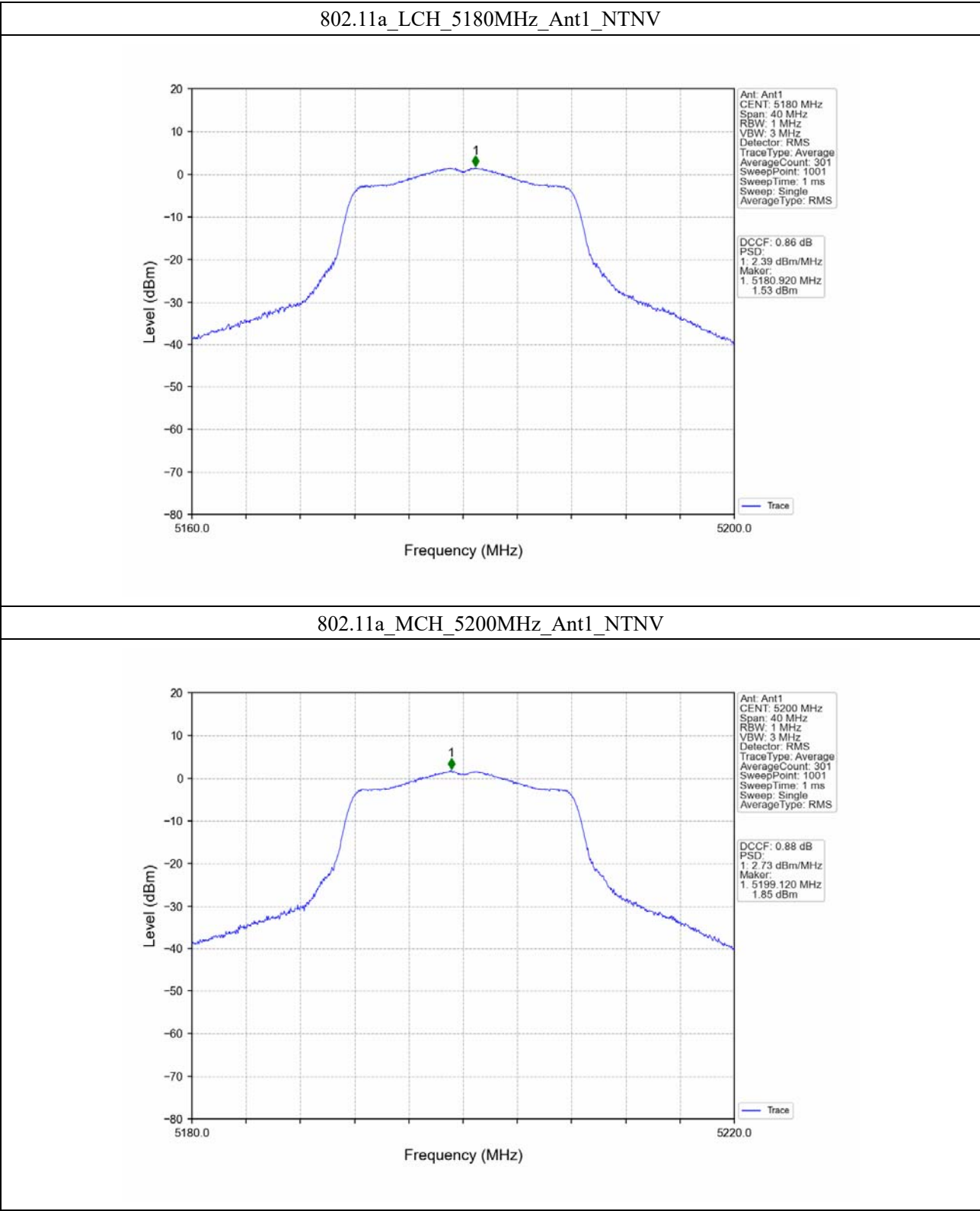
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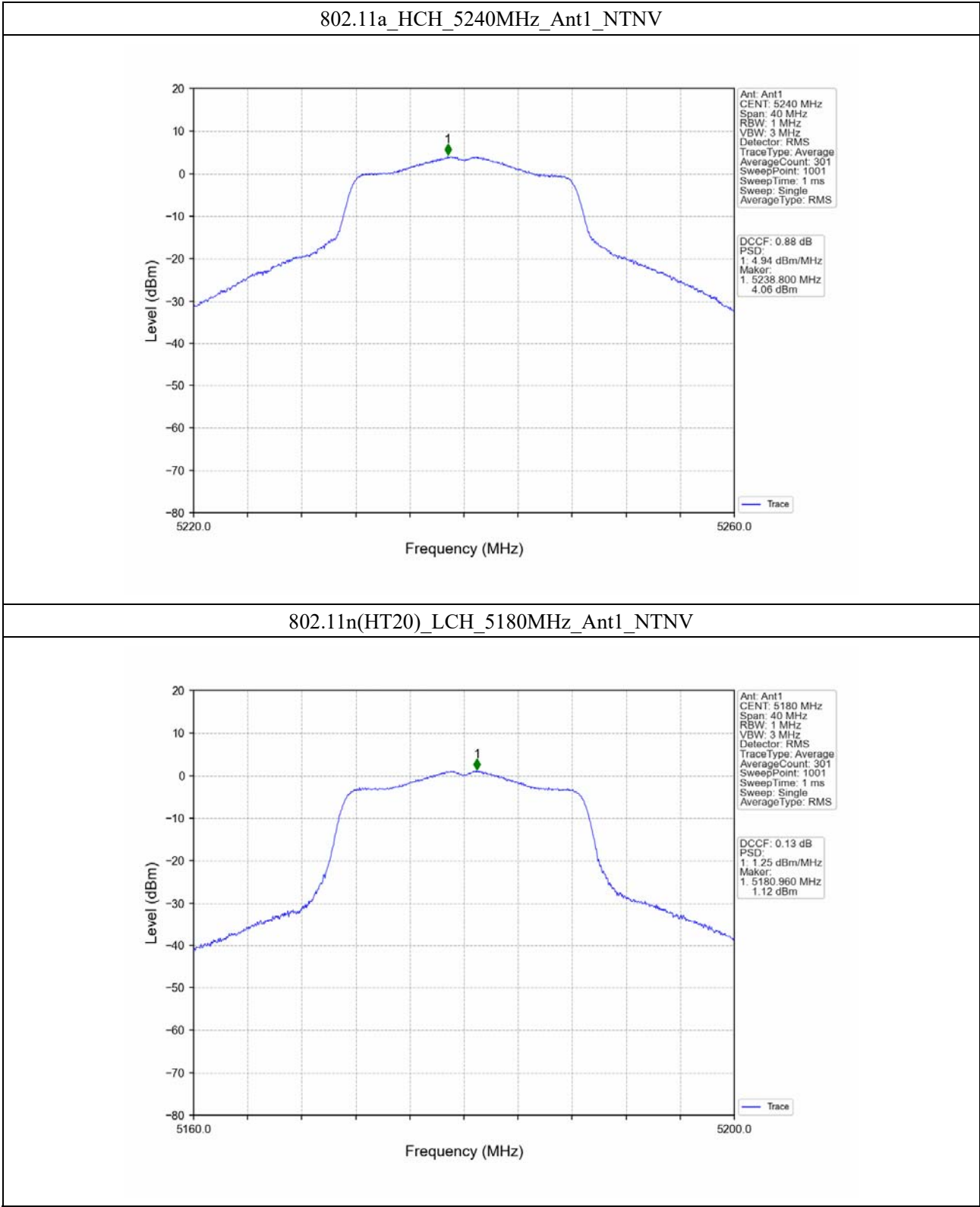
5G wifi



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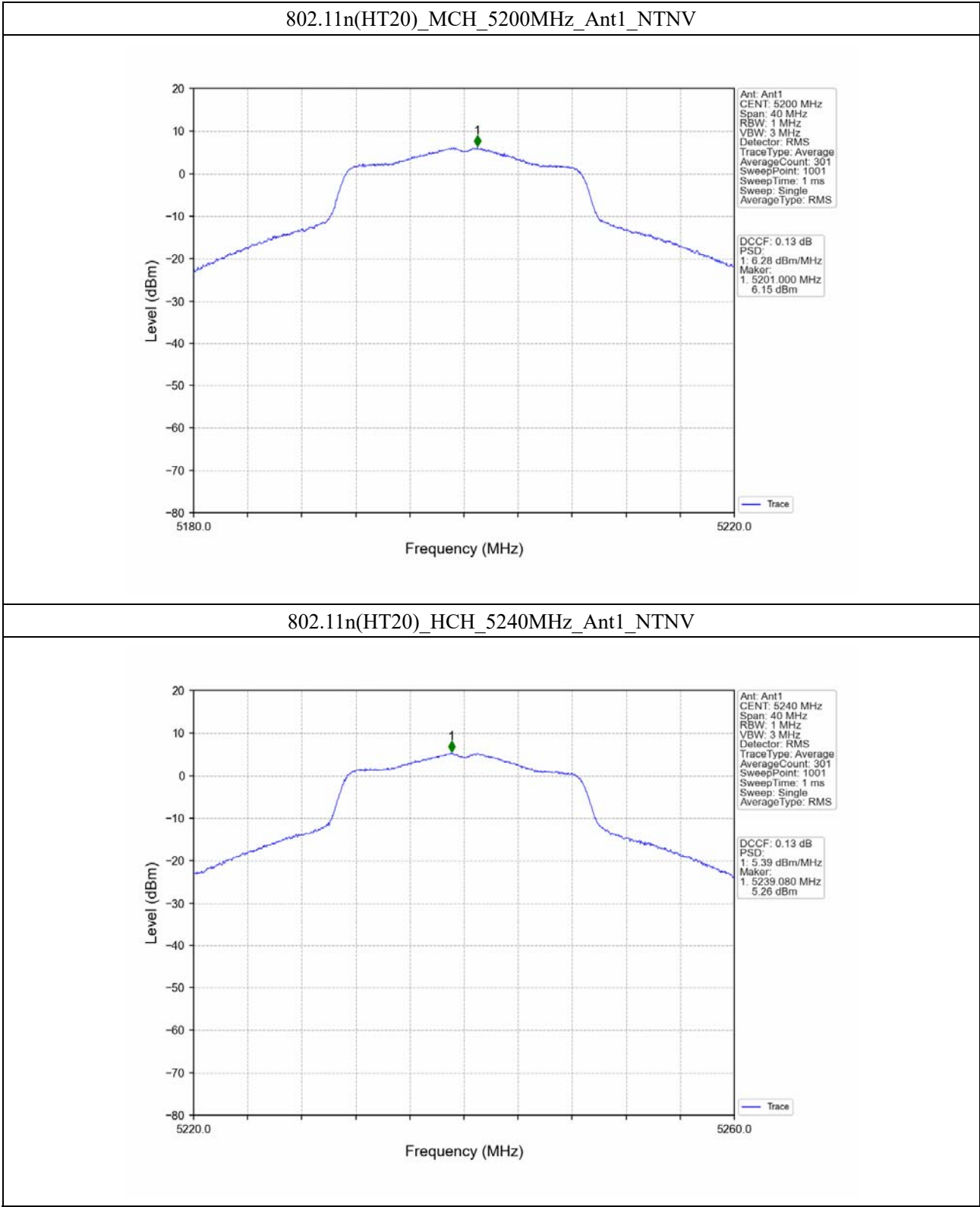
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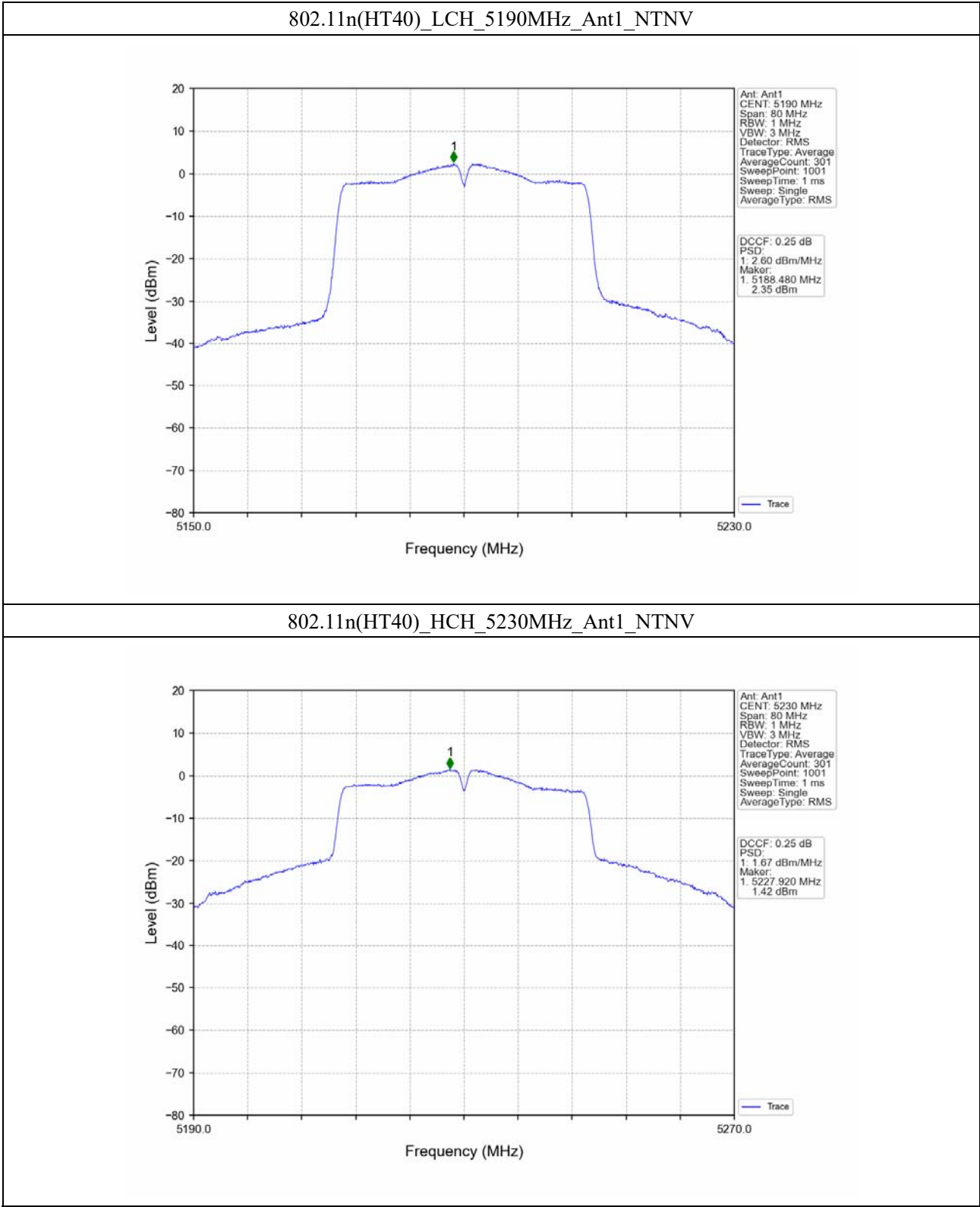
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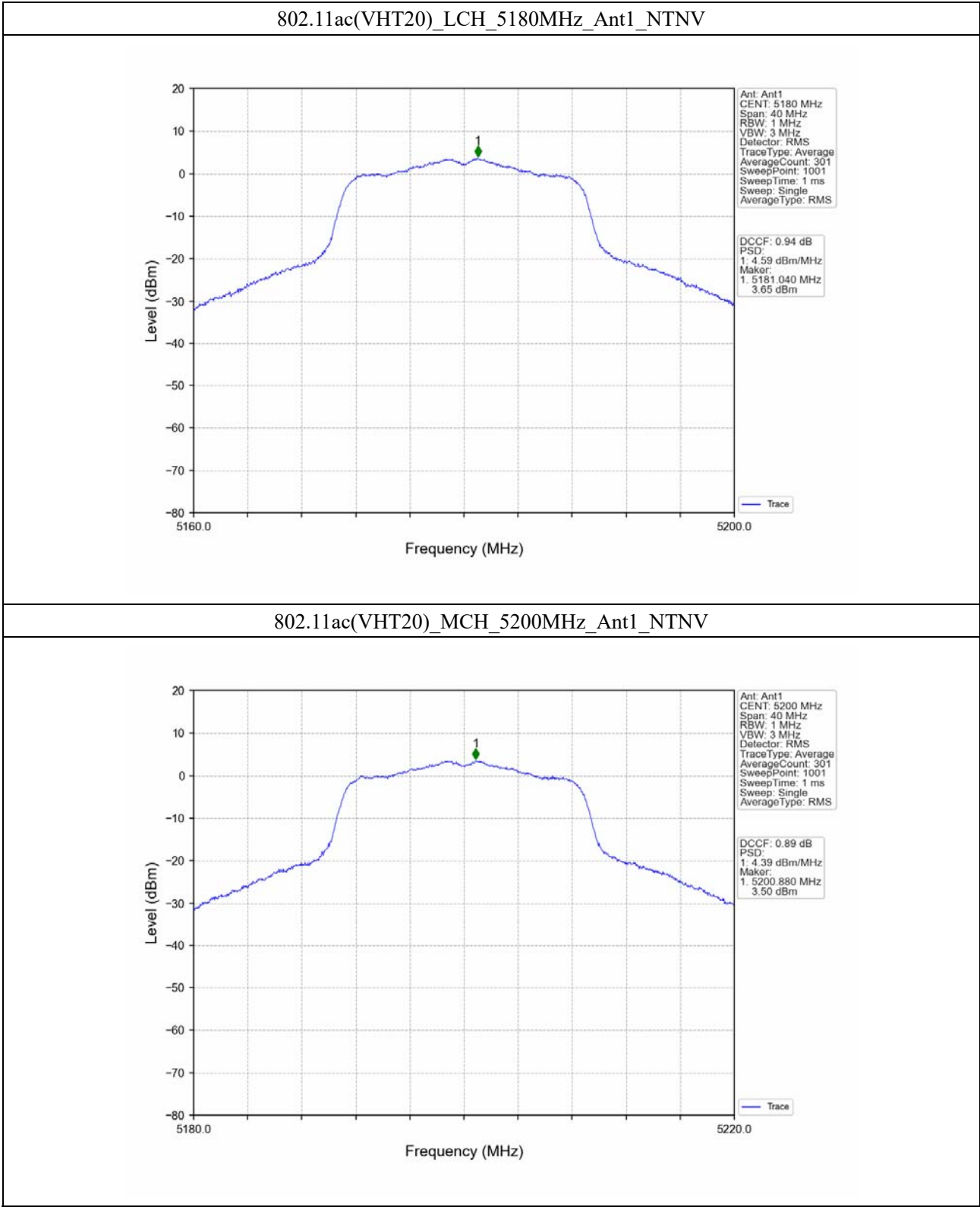
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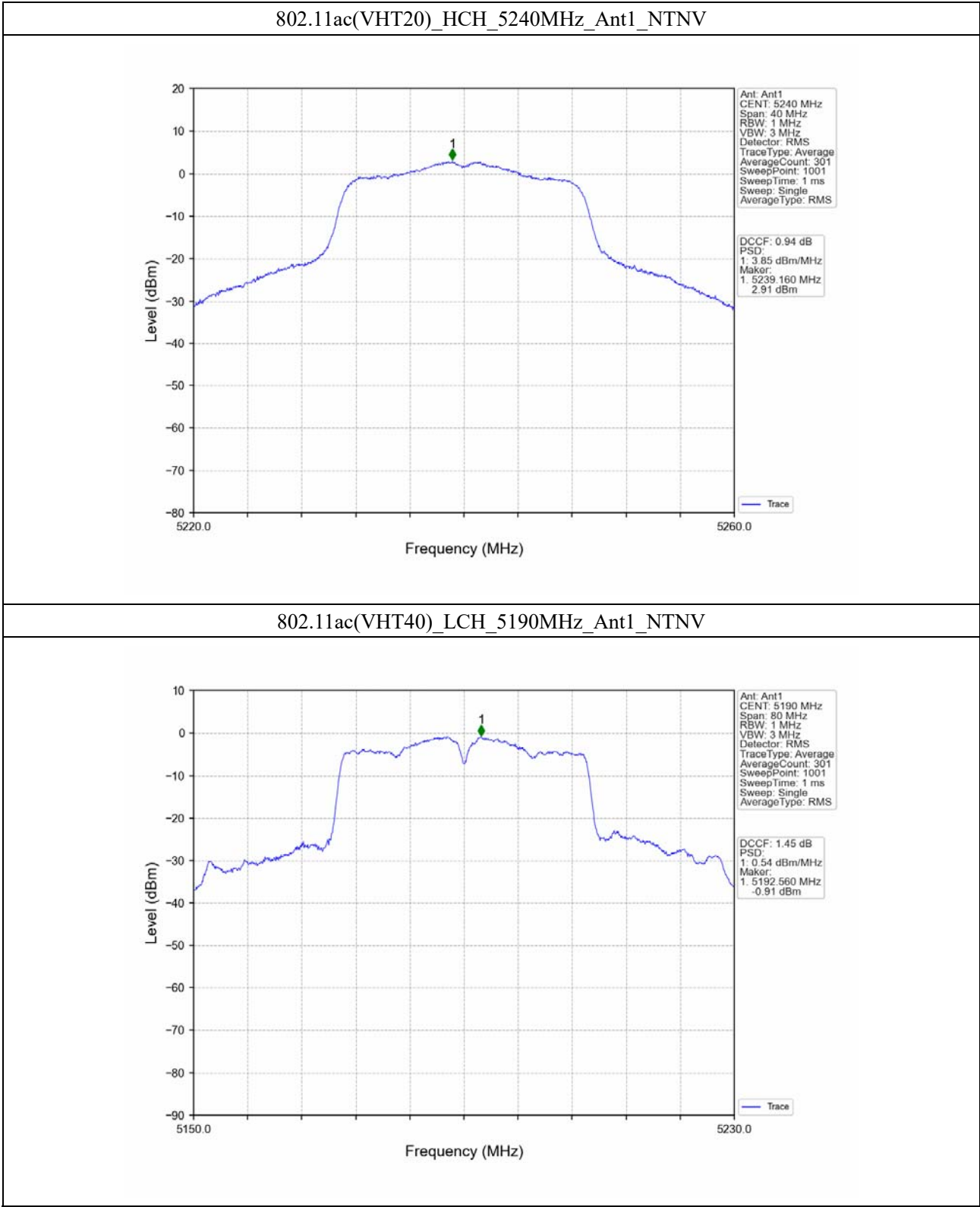
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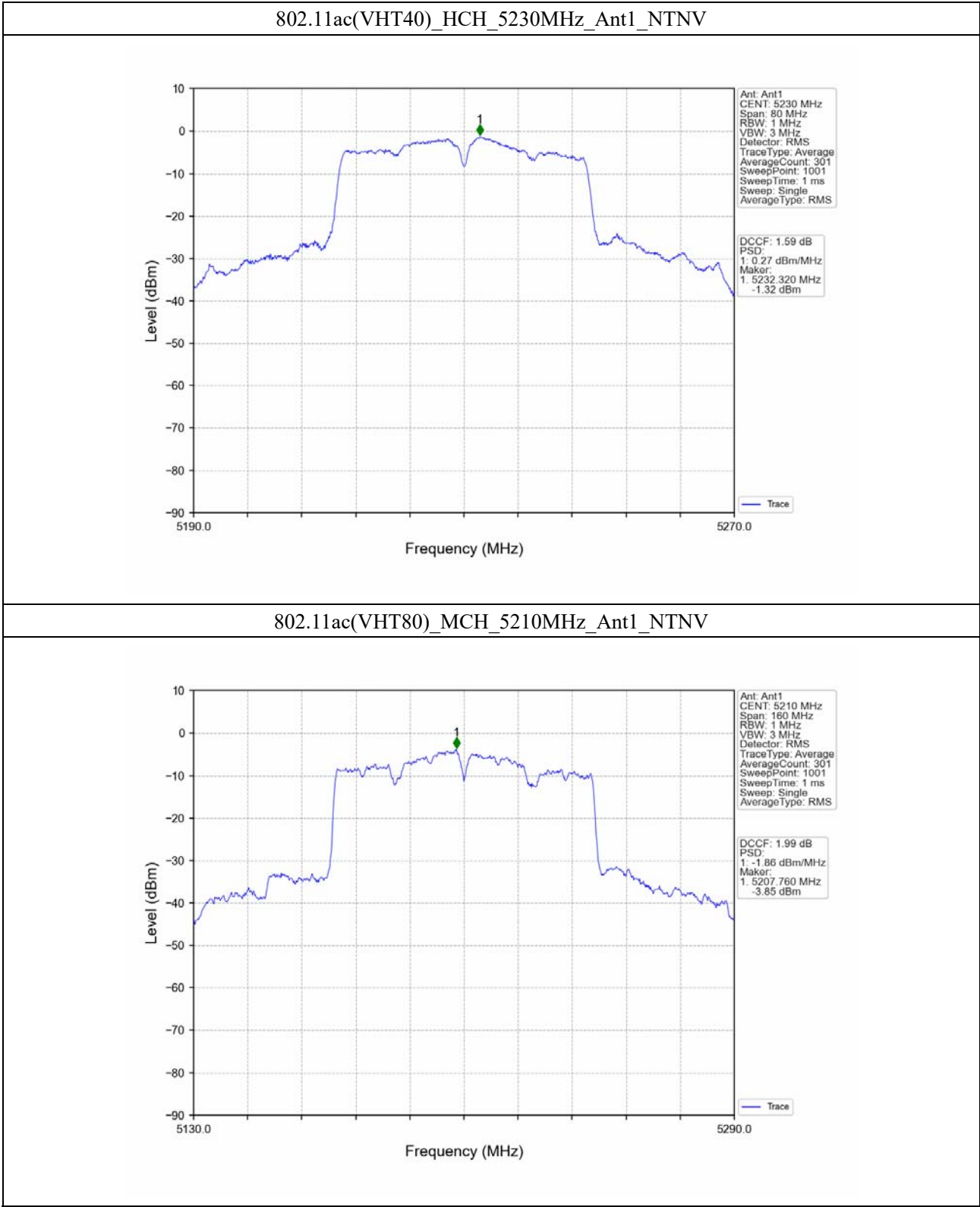
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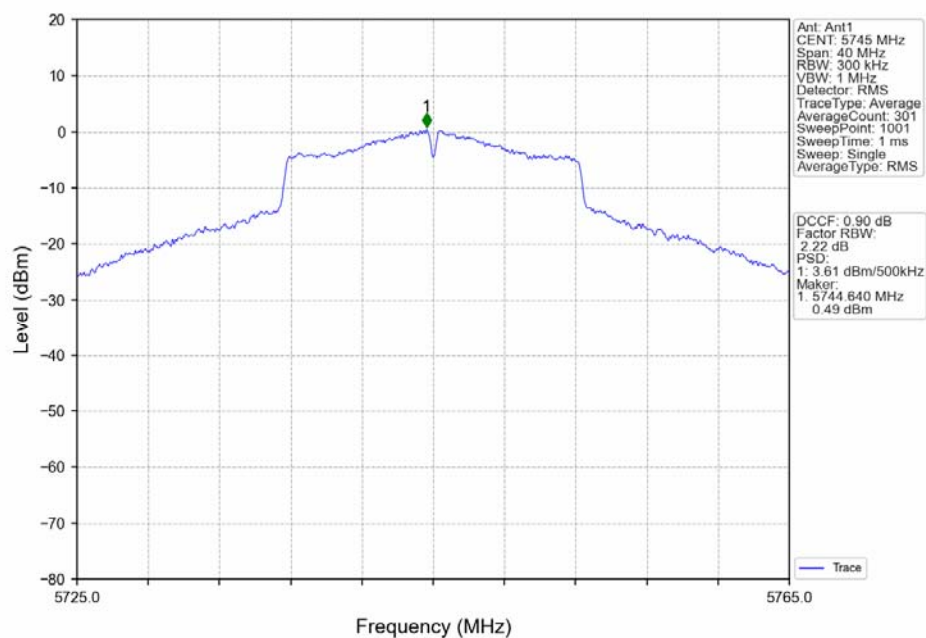
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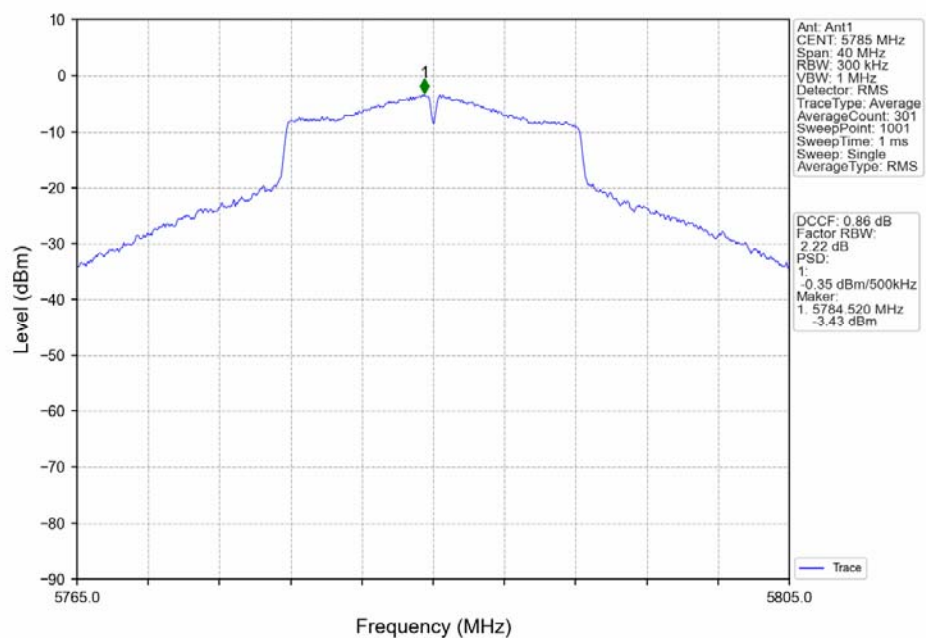
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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