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Annex for 5G Wi-Fi BAND 3

Test Report No.: CTL2412319011-WF03

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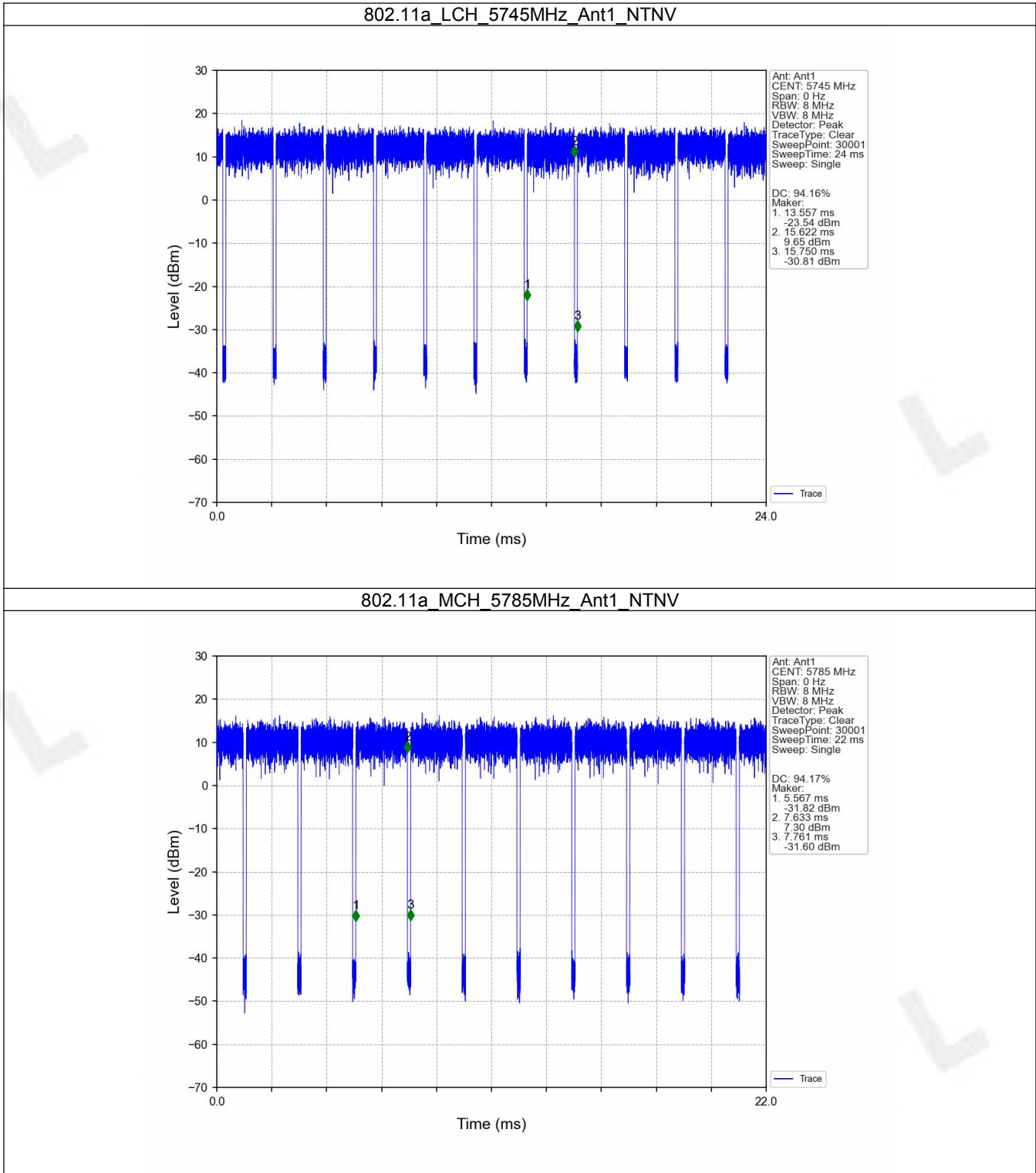
1. Duty Cycle**1.1 Test Result****1.1.1 Ant1**

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	2.065	2.193	94.16	0.26	0.04
		5785	2.066	2.194	94.17	0.26	0.03
		5825	2.066	2.194	94.17	0.26	0.04
802.11n (HT20)	SISO	5745	1.921	2.050	93.71	0.28	0.04
		5785	1.921	2.050	93.71	0.28	0.04
		5825	1.922	2.050	93.76	0.28	0.04
802.11n (HT40)	SISO	5755	0.945	1.074	87.99	0.56	0.09
		5795	0.944	1.074	87.90	0.56	0.03

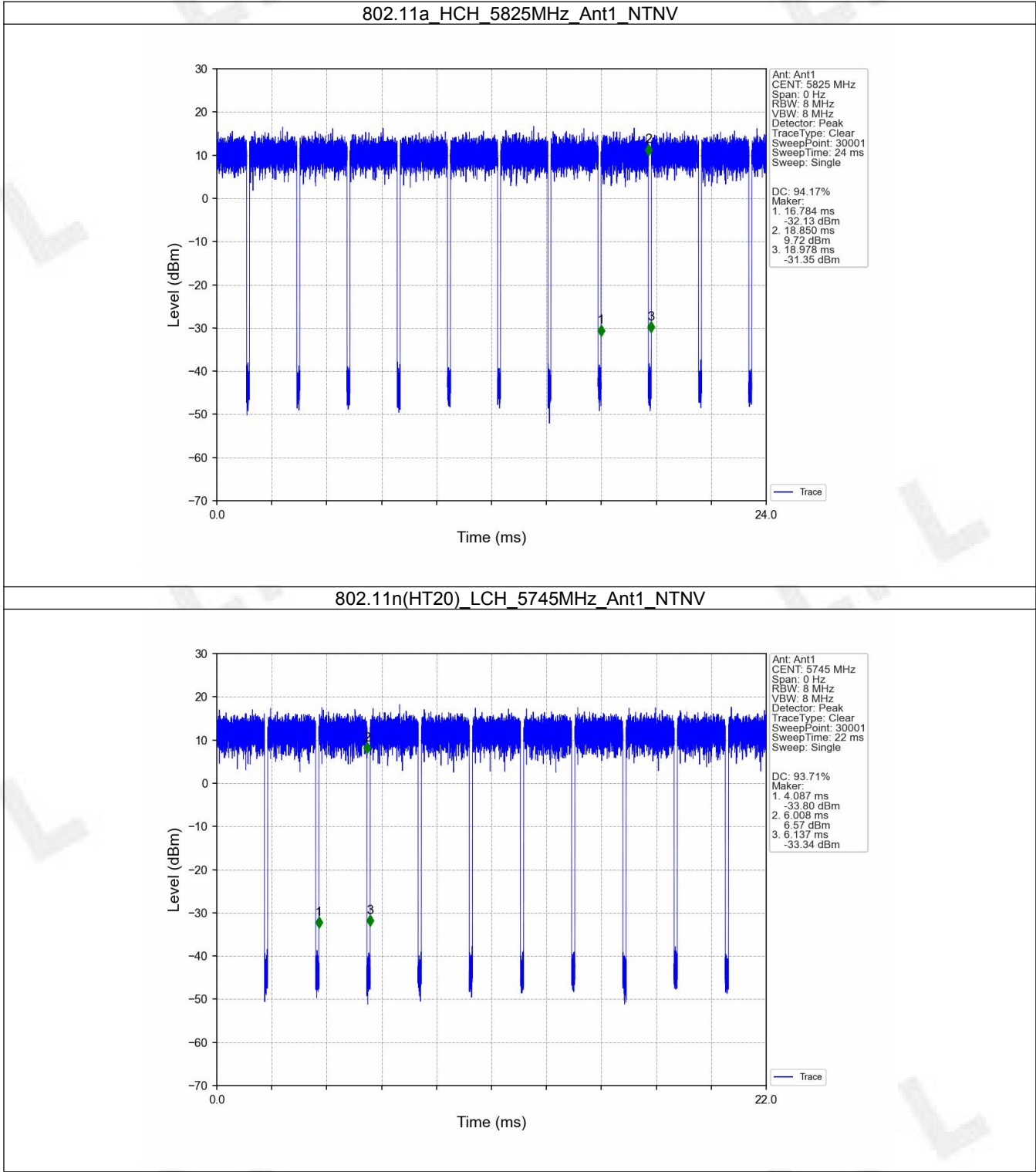
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1.2 Test Graph

1.2.1 Ant1

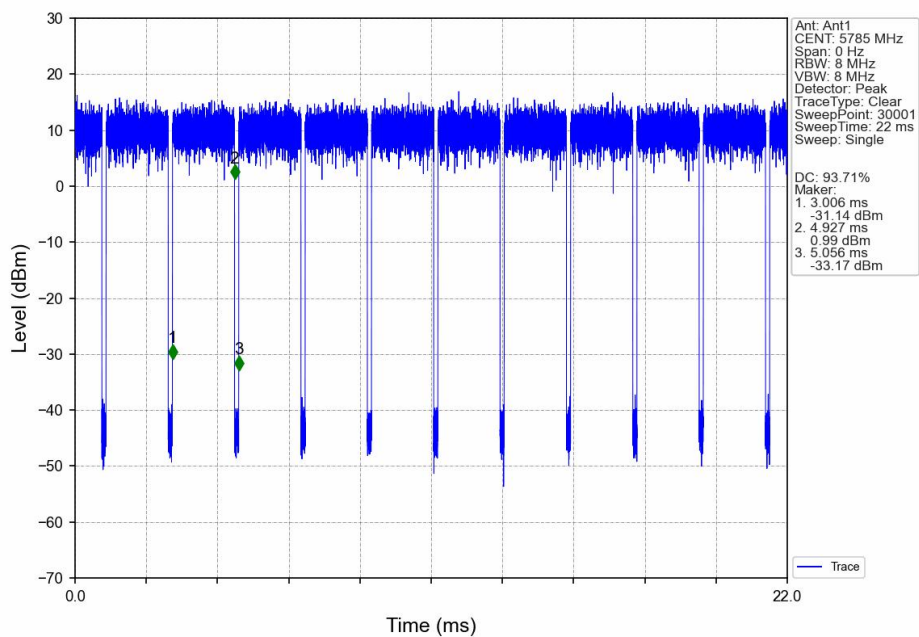


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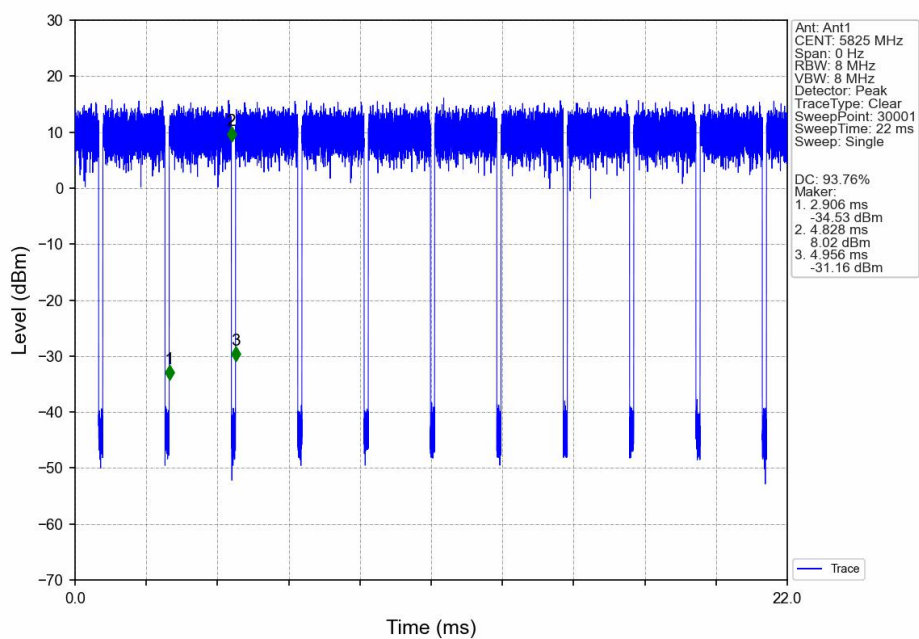


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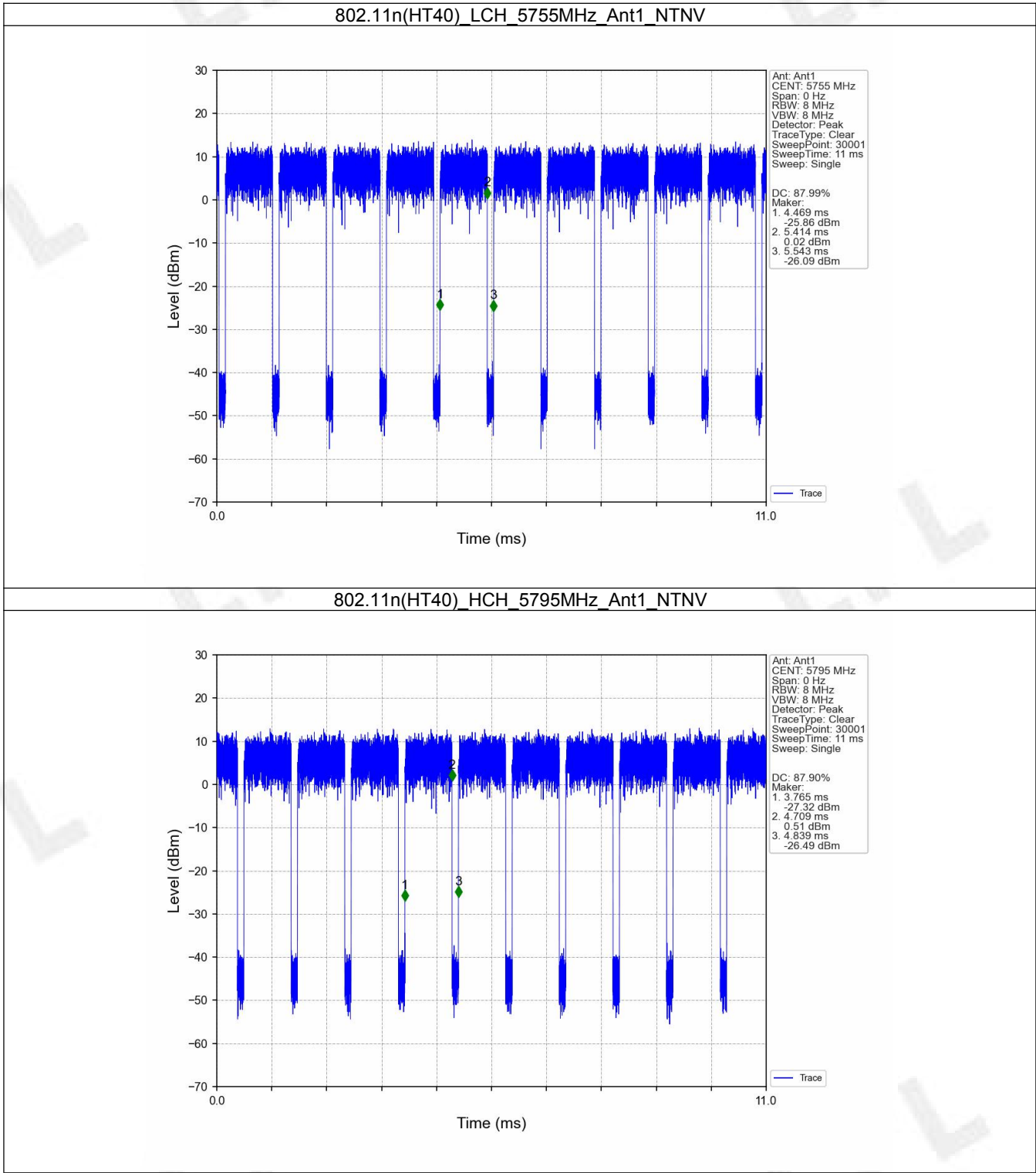
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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2. Bandwidth**2.1 Test Result****2.1.1 OBW**

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.927	/	Pass
		5785	1	17.671	/	Pass
		5825	1	17.751	/	Pass
802.11n (HT20)	SISO	5745	1	18.576	/	Pass
		5785	1	18.500	/	Pass
		5825	1	18.601	/	Pass
802.11n (HT40)	SISO	5755	1	36.292	/	Pass
		5795	1	36.176	/	Pass

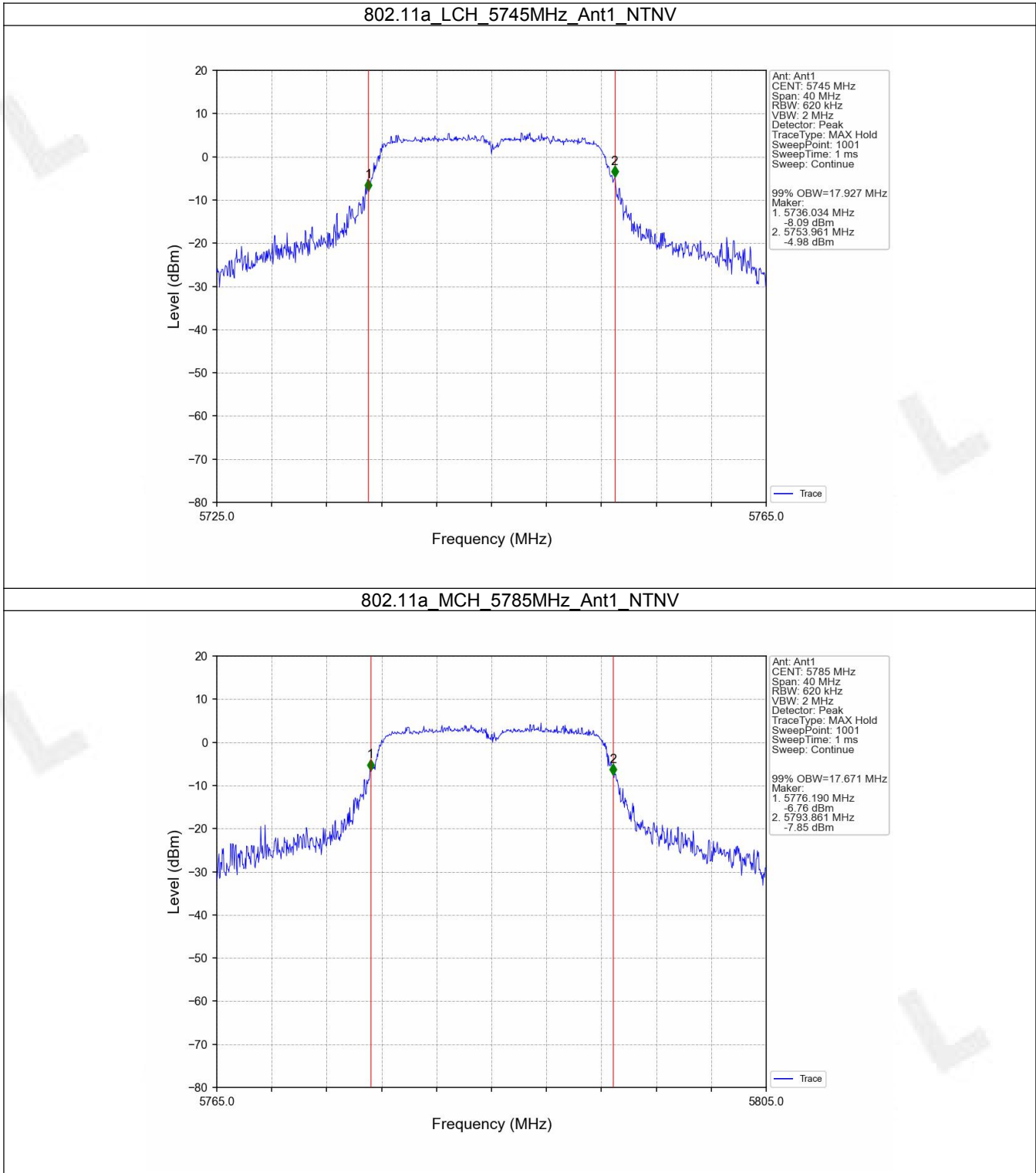
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.354	≥ 0.5	Pass
		5785	1	16.342	≥ 0.5	Pass
		5825	1	16.363	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.198	≥ 0.5	Pass
		5785	1	17.305	≥ 0.5	Pass
		5825	1	16.987	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.093	≥ 0.5	Pass
		5795	1	35.159	≥ 0.5	Pass

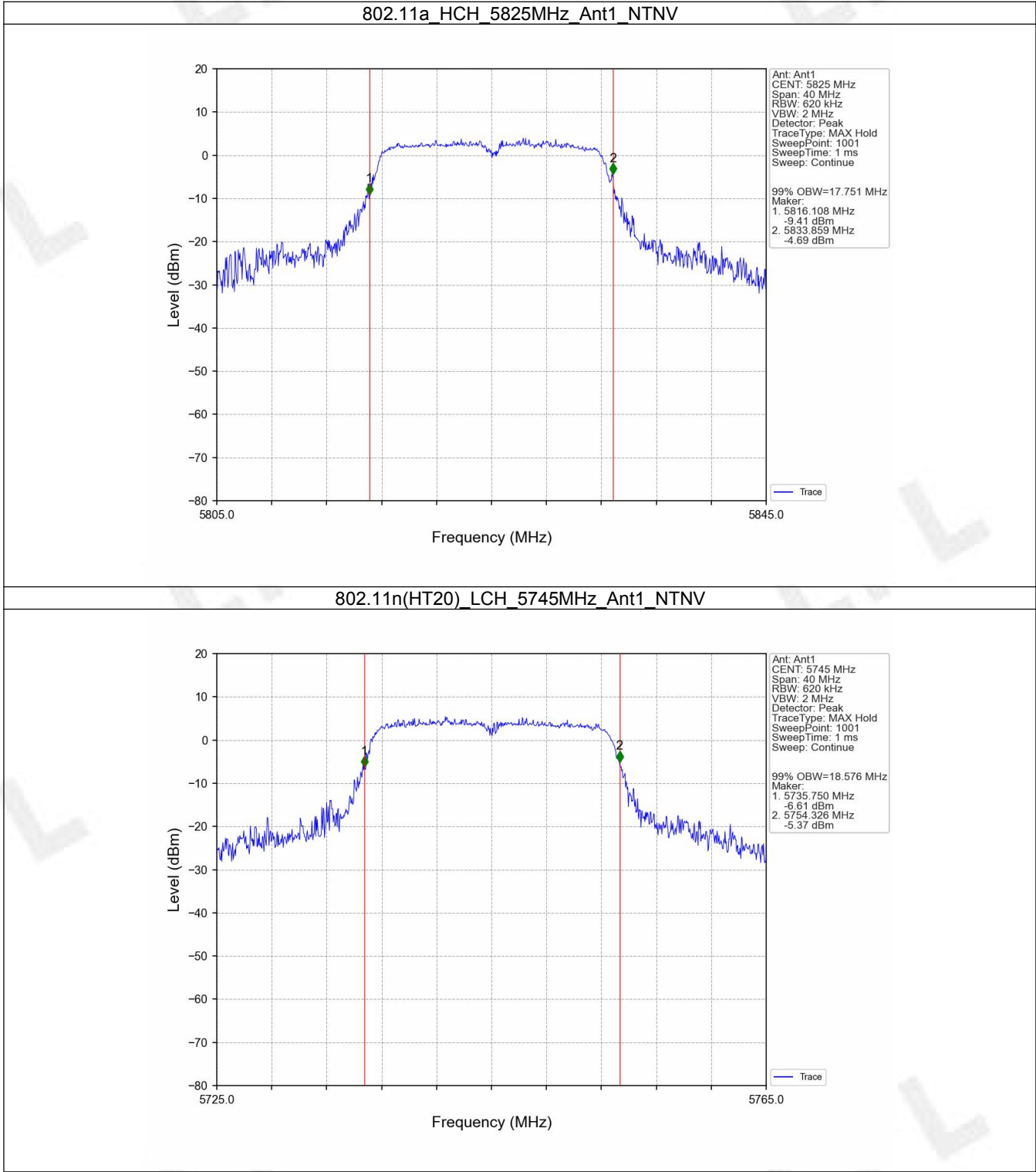
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2.2 Test Graph

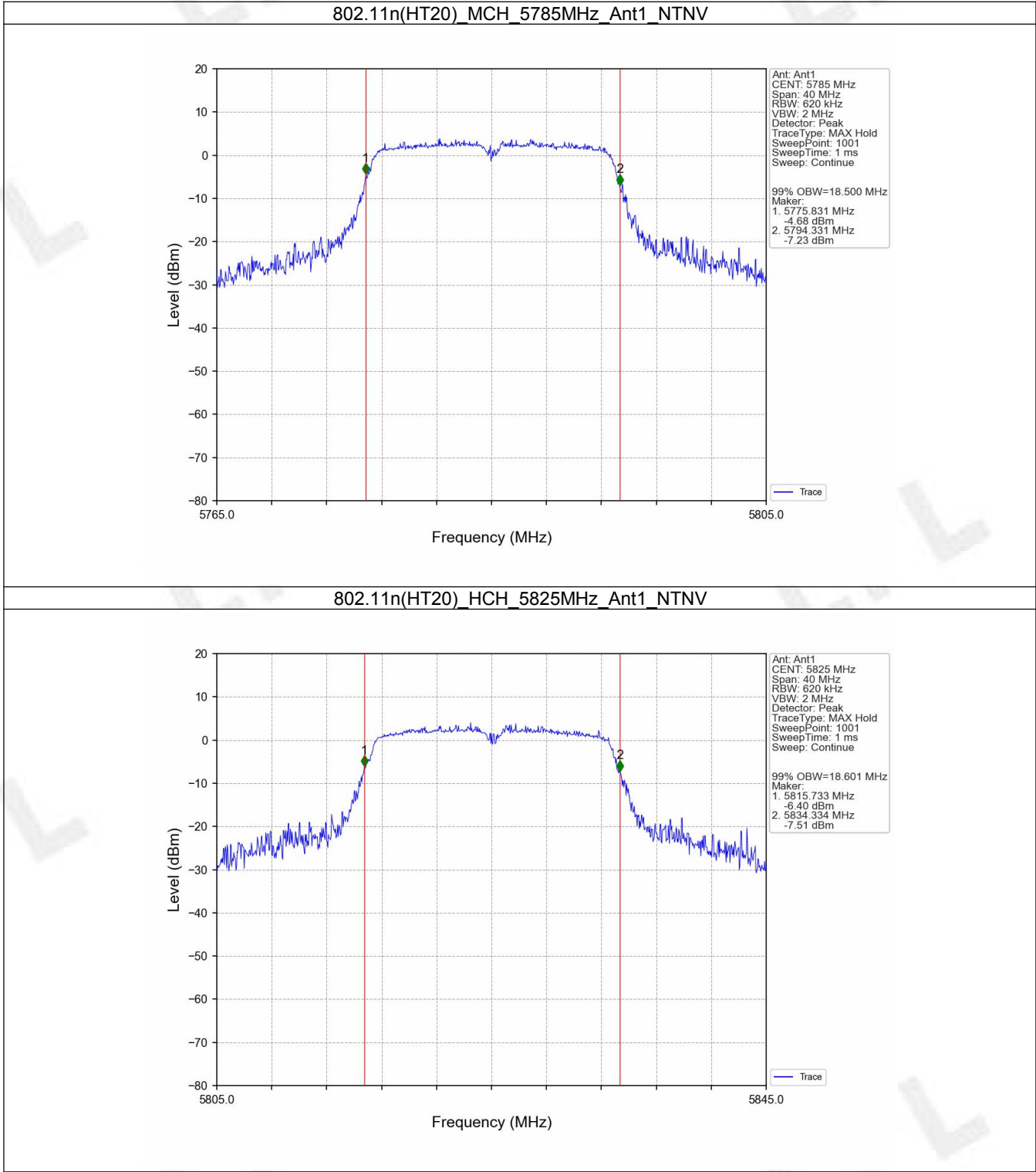
2.2.1 OBW



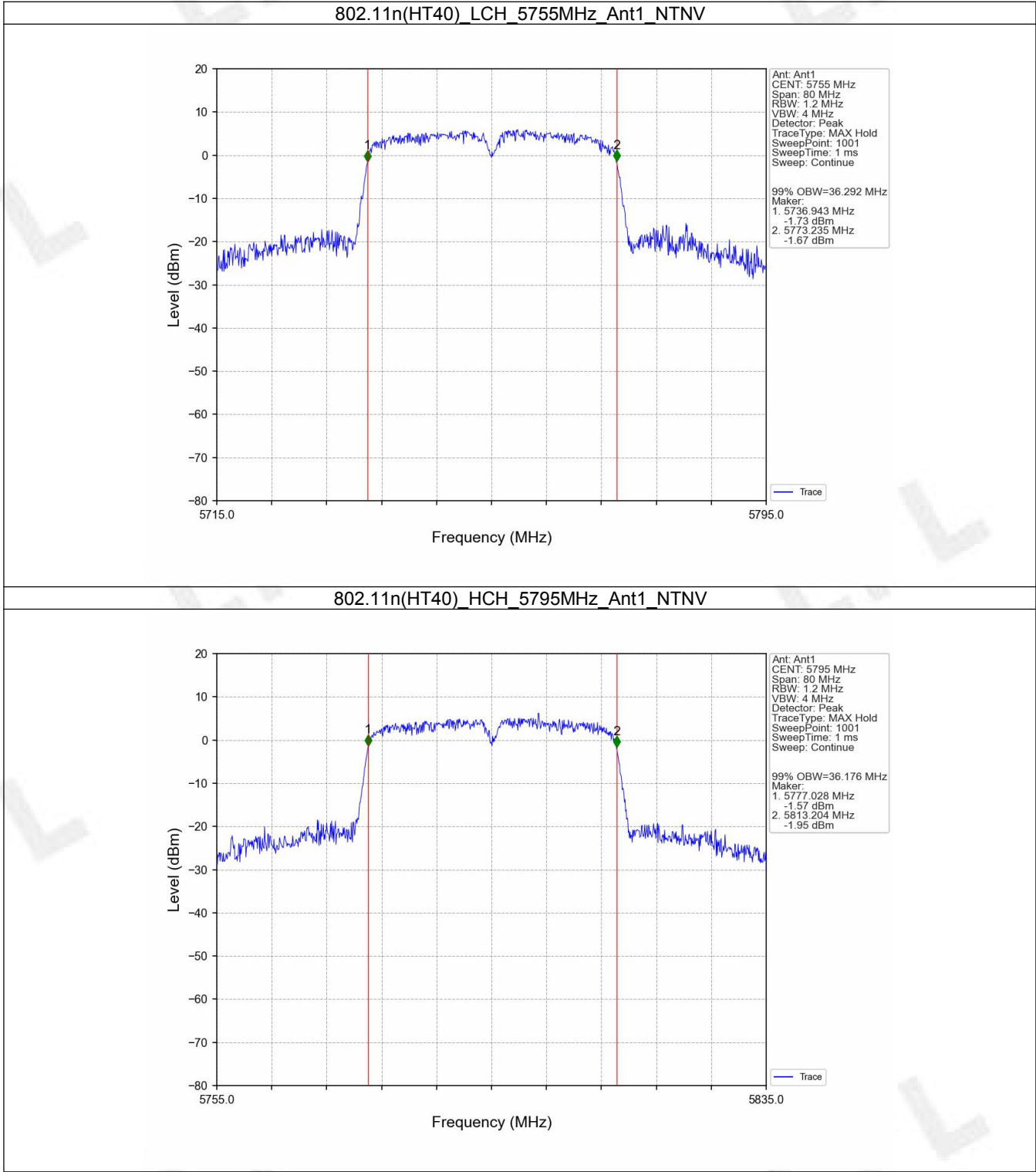
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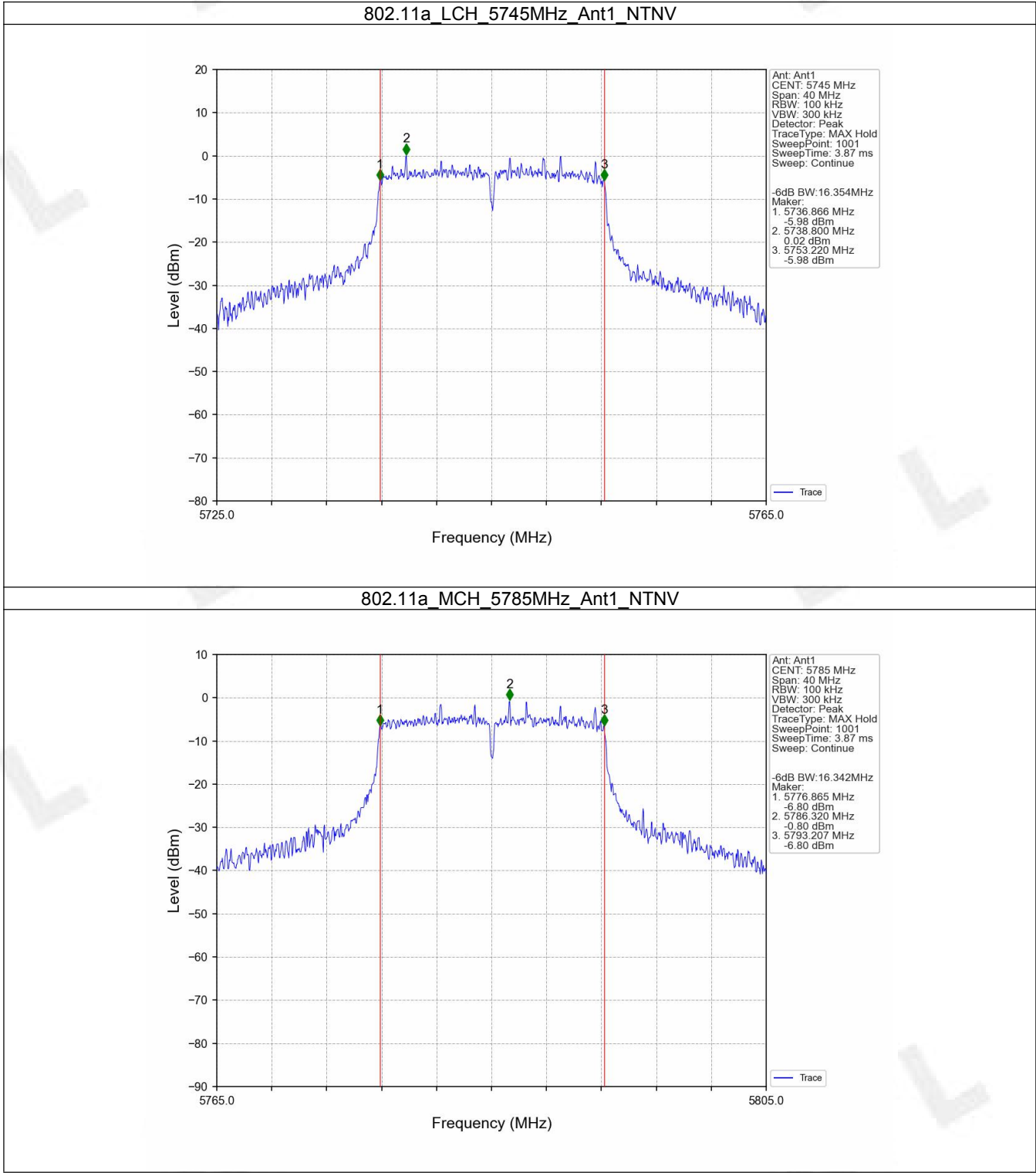


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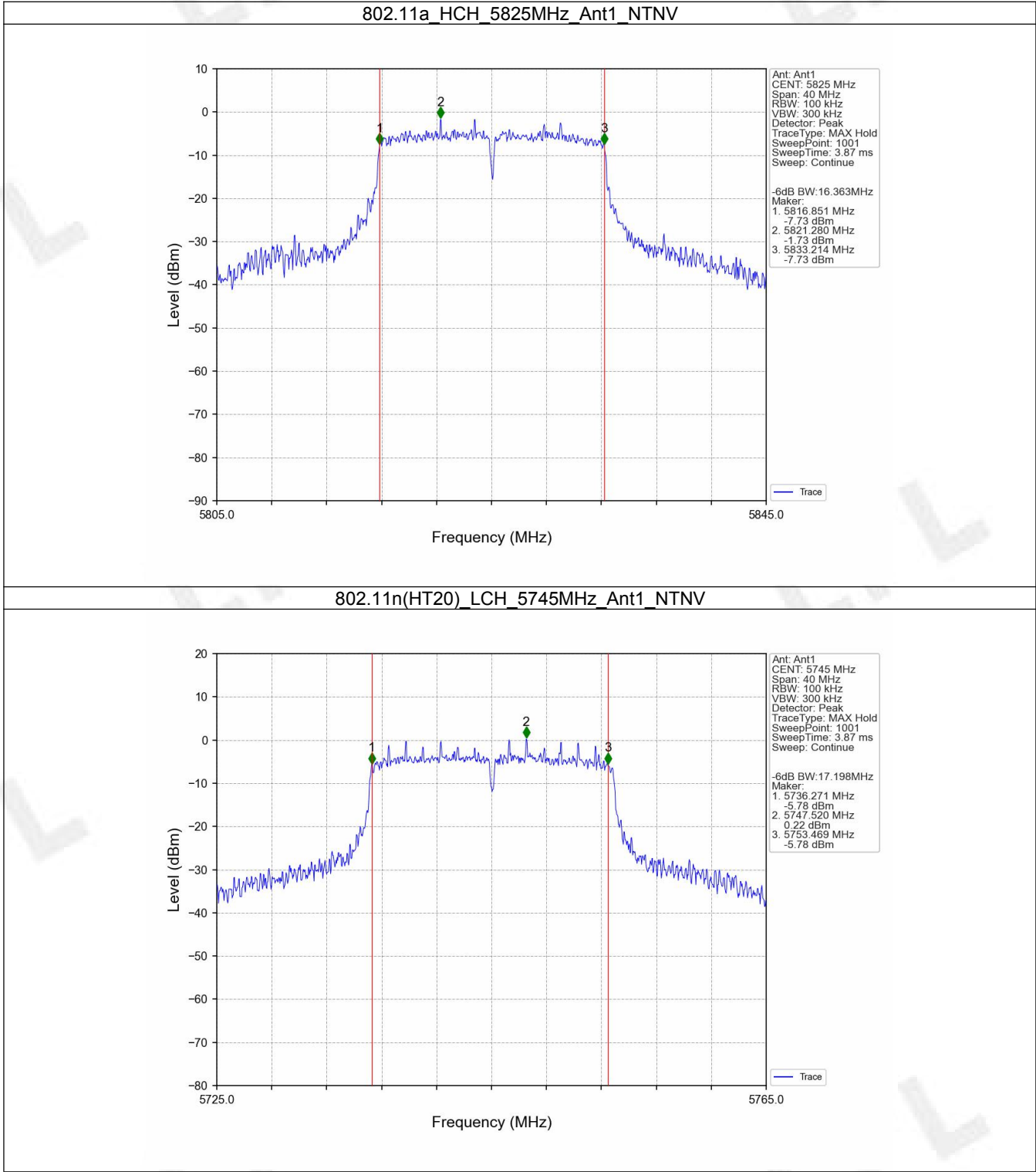


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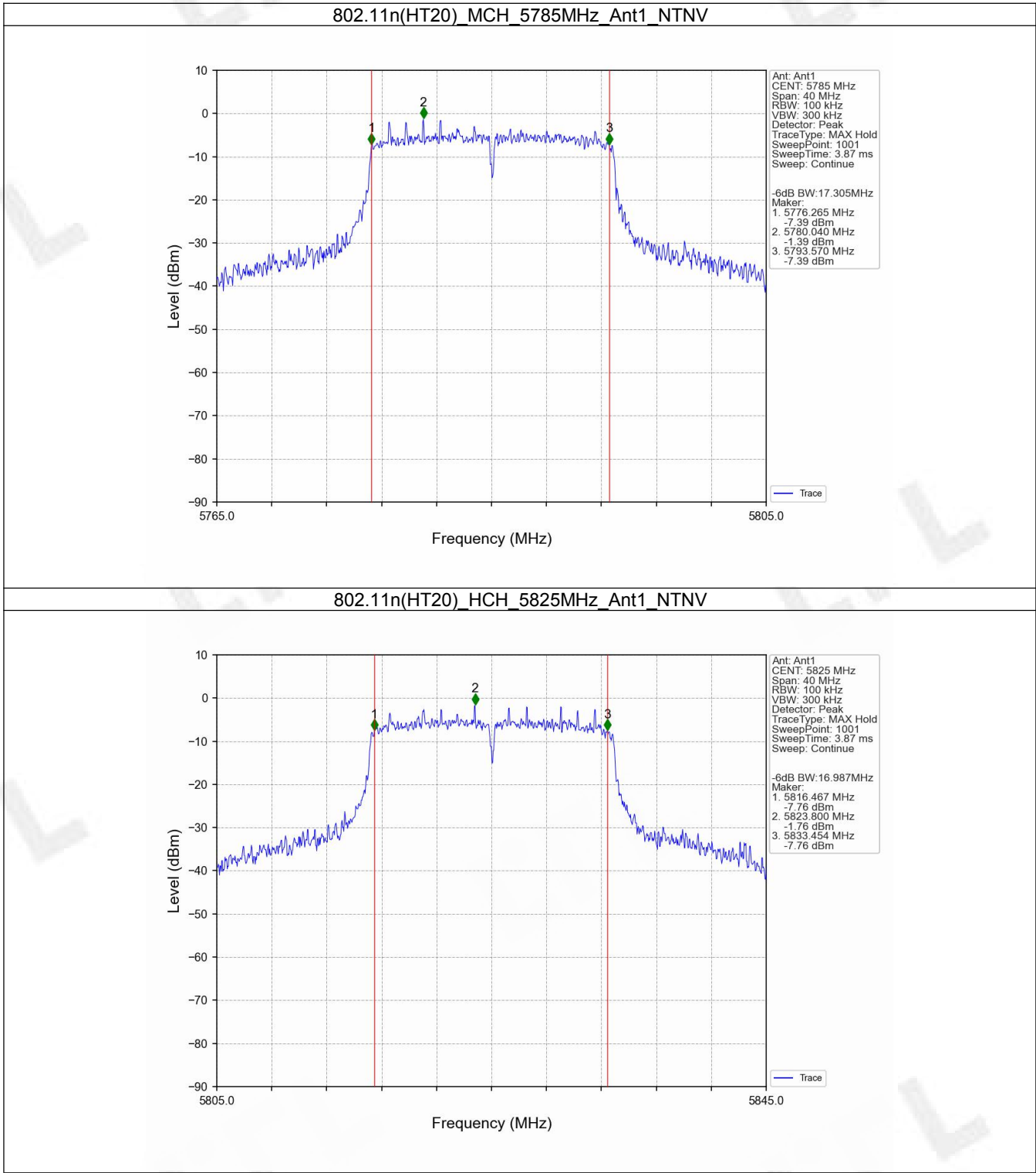
2.2.2 6dB BW



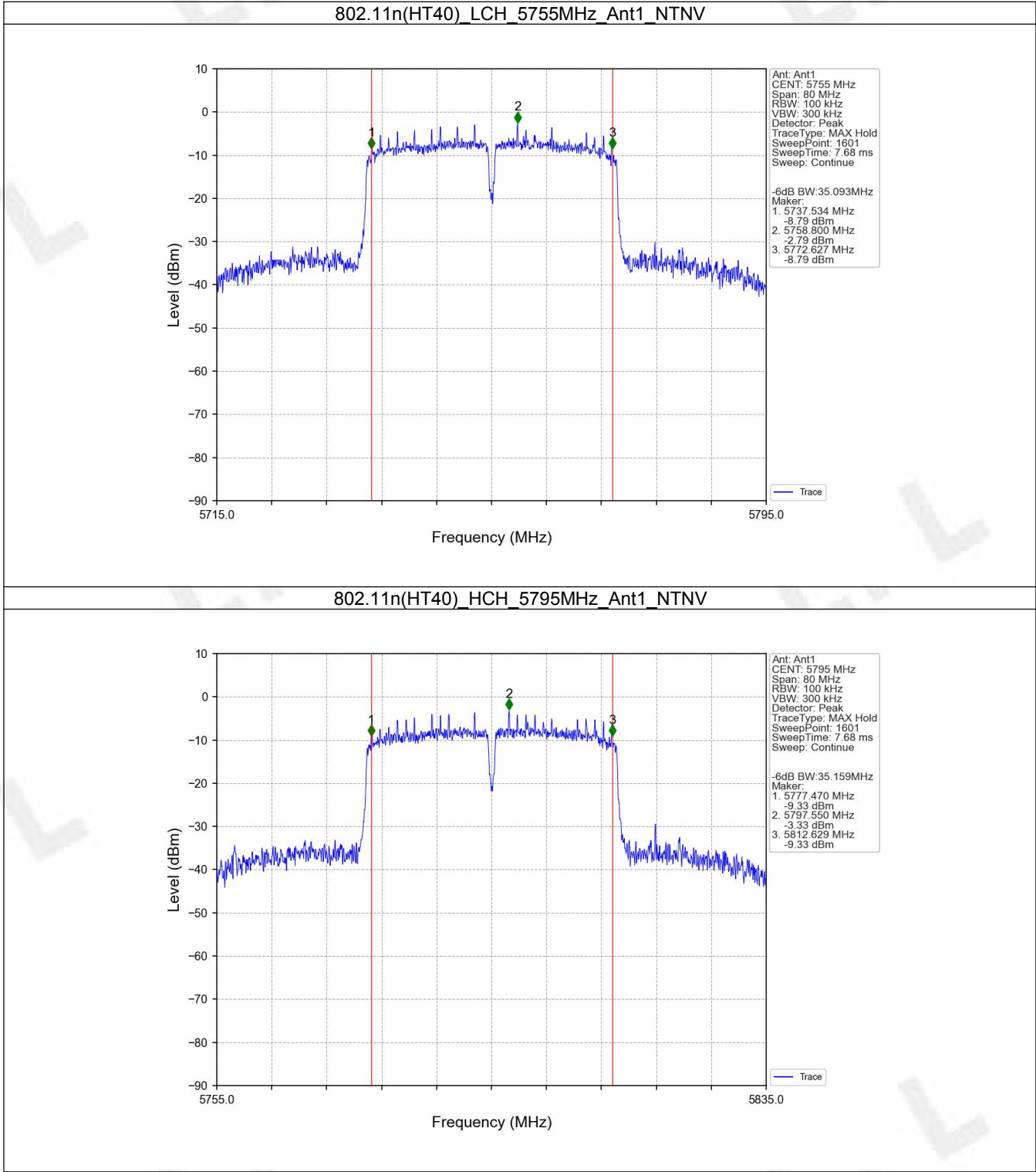
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3. Maximum Conducted Output Power**3.1 Test Result****3.1.1 Power**

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Verdict
			Duty Cycle Correction Factor (dB)	ANT1	Limit	
802.11a	SISO	5745	0.26	11.45	<=30	Pass
		5785	0.26	10.11	<=30	Pass
		5825	0.26	9.73	<=30	Pass
802.11n (HT20)	SISO	5745	0.28	11.32	<=30	Pass
		5785	0.28	10.01	<=30	Pass
		5825	0.28	9.72	<=30	Pass
802.11n (HT40)	SISO	5755	0.56	10.73	<=30	Pass
		5795	0.56	10.07	<=30	Pass

Note1: Antenna Gain: Ant1: 3.25dBi;

Note 2: Maximum Average Conducted Output Power=DCCF+Maker;

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD-Band3

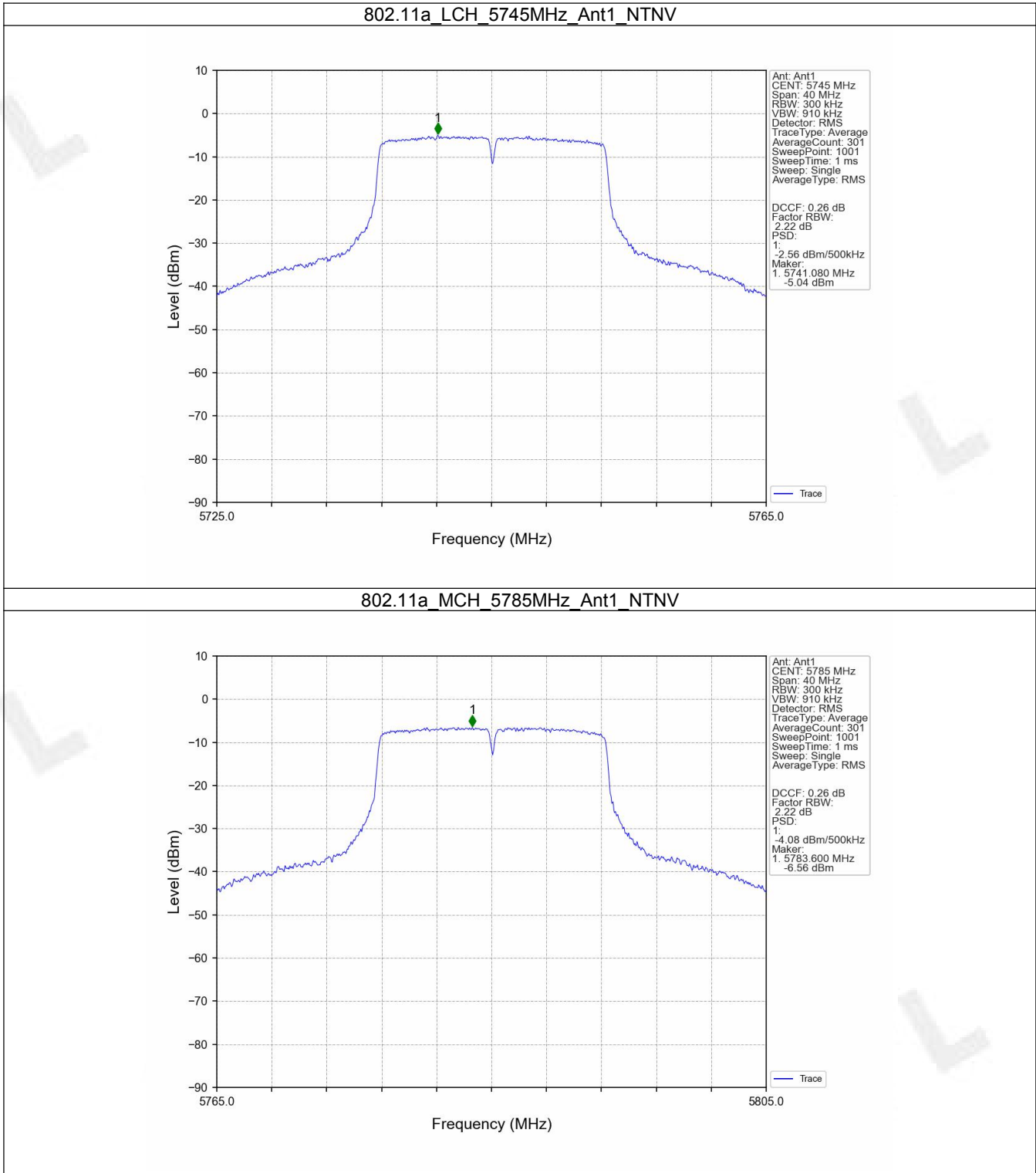
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-2.56	<=30	Pass
		5785	-4.08	<=30	Pass
		5825	-4.34	<=30	Pass
802.11n (HT20)	SISO	5745	-3.10	<=30	Pass
		5785	-4.43	<=30	Pass
		5825	-4.53	<=30	Pass
802.11n (HT40)	SISO	5755	-6.37	<=30	Pass
		5795	-7.02	<=30	Pass

Note1: Antenna Gain: Ant1: 3.25dBi;

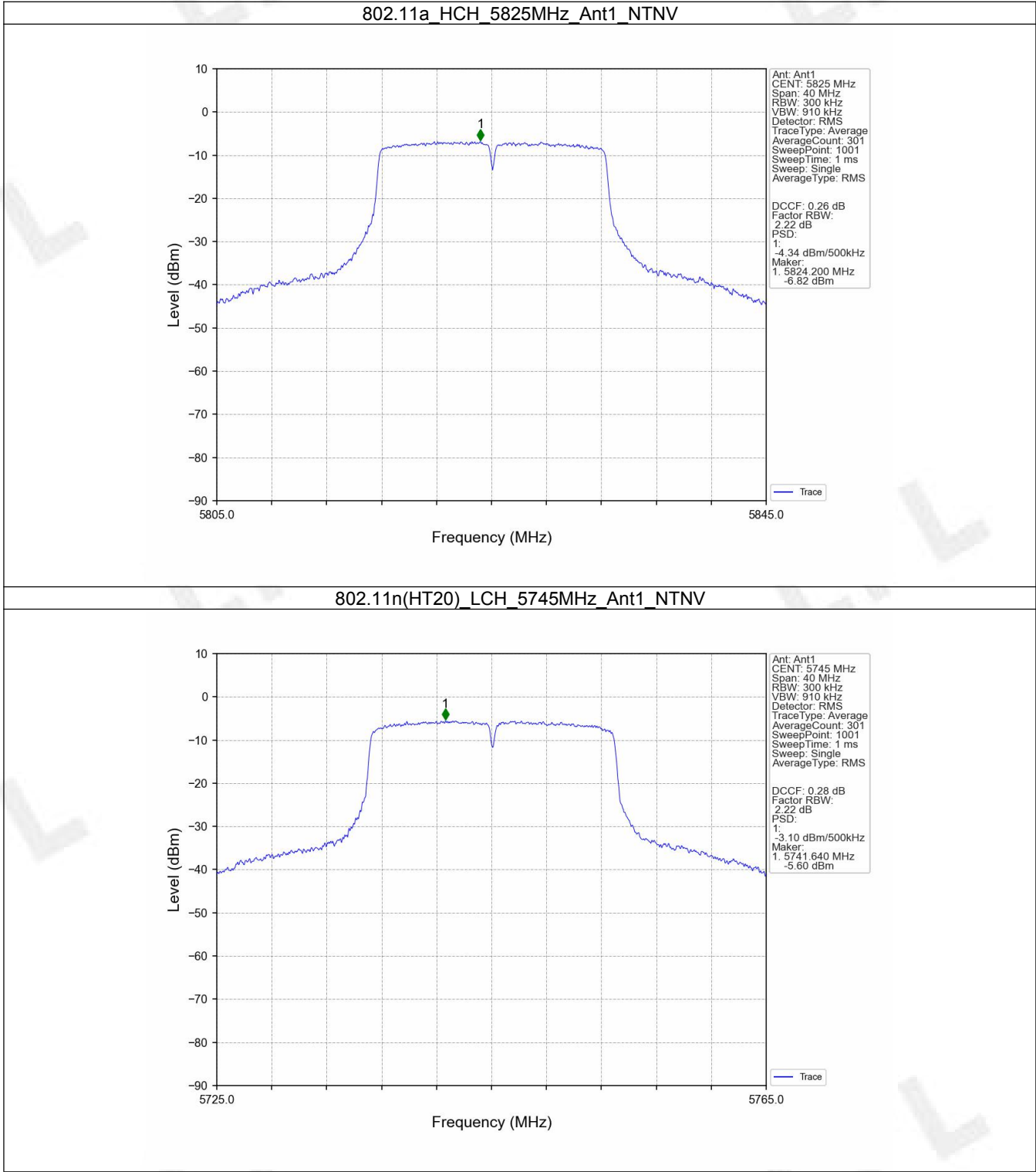
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4.2 Test Graph

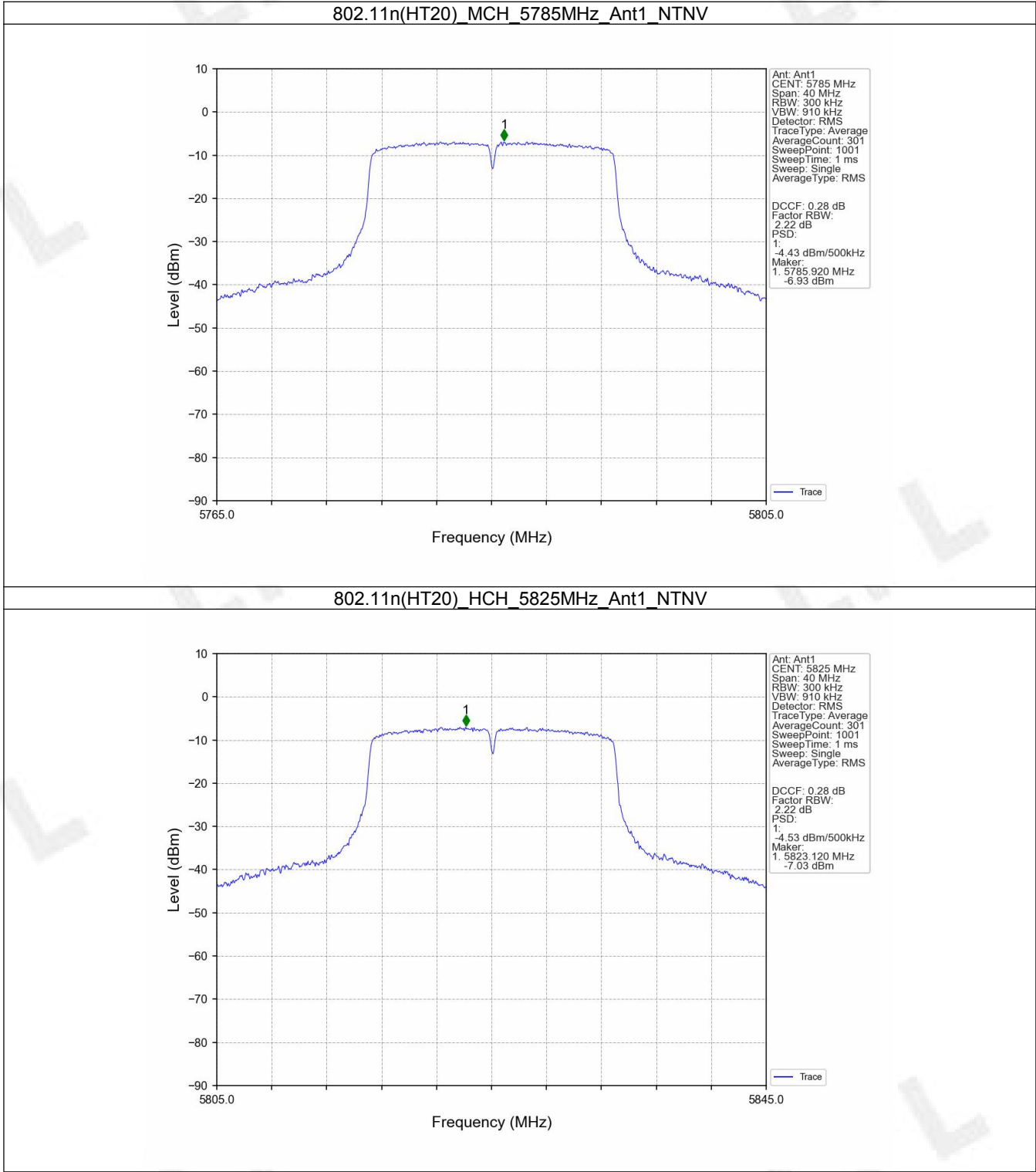
4.2.1 PSD-Band3



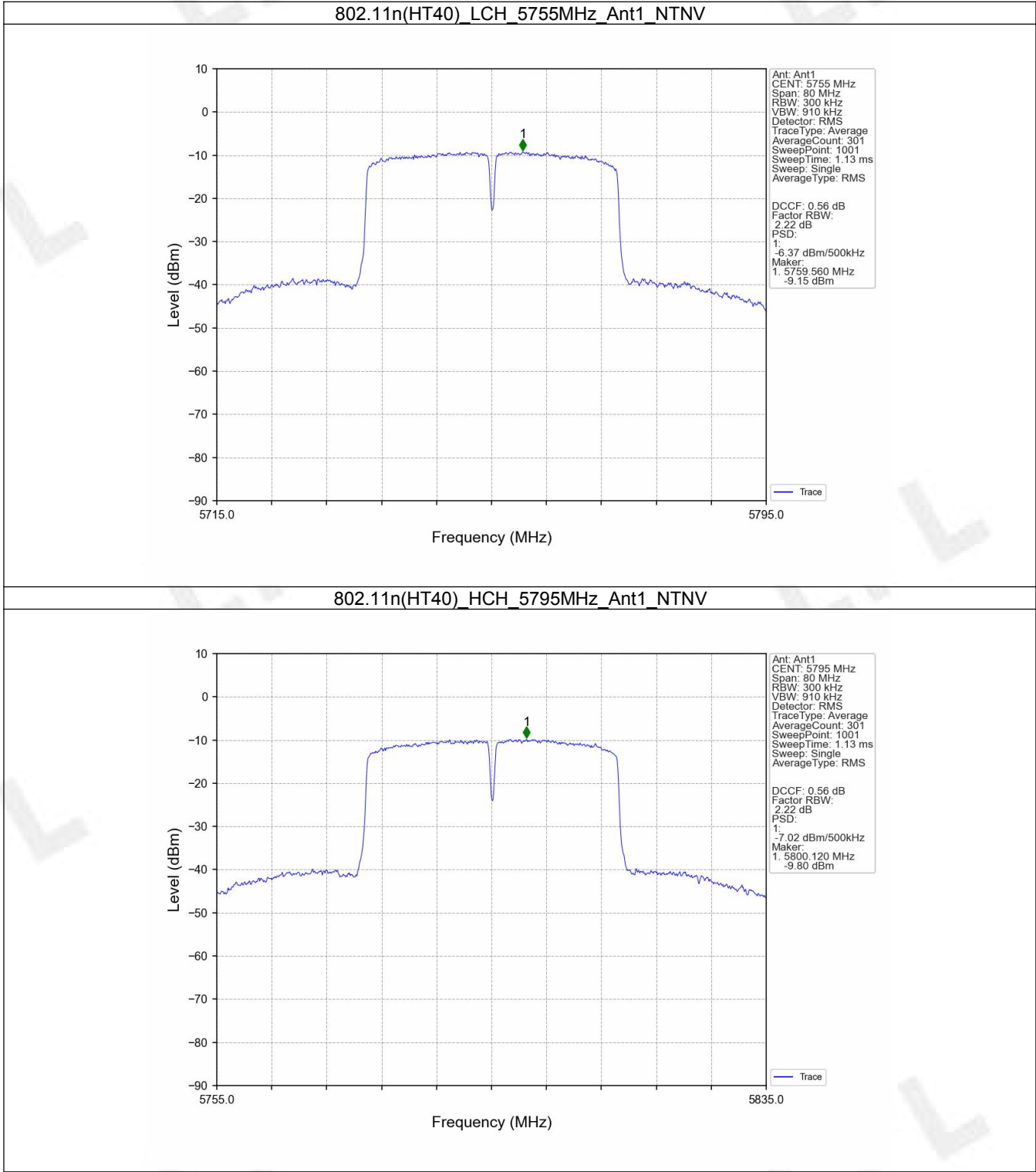
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5. Frequency Stability**5.1 Test Result****5.1.1 Ant1**

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	3.42	5745.011	5725 to 5850	Pass
				3.8	5745.010	5725 to 5850	Pass
				4.18	5745.009	5725 to 5850	Pass
			-30	3.8	5745.008	5725 to 5850	Pass
			-20	3.8	5745.008	5725 to 5850	Pass
			-10	3.8	5745.008	5725 to 5850	Pass
			0	3.8	5745.007	5725 to 5850	Pass
			10	3.8	5745.007	5725 to 5850	Pass
			30	3.8	5745.007	5725 to 5850	Pass
			40	3.8	5745.007	5725 to 5850	Pass
			50	3.8	5745.007	5725 to 5850	Pass
		5785	20	3.42	5785.012	5725 to 5850	Pass
				3.8	5785.011	5725 to 5850	Pass
				4.18	5785.010	5725 to 5850	Pass
			-30	3.8	5785.010	5725 to 5850	Pass
			-20	3.8	5785.009	5725 to 5850	Pass
			-10	3.8	5785.009	5725 to 5850	Pass
			0	3.8	5785.010	5725 to 5850	Pass
			10	3.8	5785.009	5725 to 5850	Pass
			30	3.8	5785.009	5725 to 5850	Pass
			40	3.8	5785.009	5725 to 5850	Pass
			50	3.8	5785.009	5725 to 5850	Pass
		5825	20	3.42	5825.012	5725 to 5850	Pass
				3.8	5825.011	5725 to 5850	Pass
				4.18	5825.010	5725 to 5850	Pass
			-30	3.8	5825.010	5725 to 5850	Pass
			-20	3.8	5825.010	5725 to 5850	Pass
			-10	3.8	5825.009	5725 to 5850	Pass
			0	3.8	5825.009	5725 to 5850	Pass
			10	3.8	5825.009	5725 to 5850	Pass
			30	3.8	5825.009	5725 to 5850	Pass
			40	3.8	5825.009	5725 to 5850	Pass
			50	3.8	5825.009	5725 to 5850	Pass
		5755	20	3.42	5755.019	5725 to 5850	Pass
				3.8	5755.013	5725 to 5850	Pass
				4.18	5755.012	5725 to 5850	Pass
			-30	3.8	5755.012	5725 to 5850	Pass
			-20	3.8	5755.006	5725 to 5850	Pass
			-10	3.8	5755.011	5725 to 5850	Pass
			0	3.8	5755.011	5725 to 5850	Pass
			10	3.8	5755.010	5725 to 5850	Pass
			30	3.8	5755.009	5725 to 5850	Pass
			40	3.8	5755.008	5725 to 5850	Pass
			50	3.8	5755.008	5725 to 5850	Pass
		5795	20	3.42	5795.011	5725 to 5850	Pass
				3.8	5795.010	5725 to 5850	Pass
				4.18	5795.010	5725 to 5850	Pass
			-30	3.8	5795.009	5725 to 5850	Pass
			-20	3.8	5795.009	5725 to 5850	Pass

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			-10	3.8	5795.009	5725 to 5850	Pass
			0	3.8	5795.009	5725 to 5850	Pass
			10	3.8	5795.009	5725 to 5850	Pass
			30	3.8	5795.009	5725 to 5850	Pass
			40	3.8	5795.009	5725 to 5850	Pass
			50	3.8	5795.009	5725 to 5850	Pass