



Annex for 5G Wi-Fi Band 3

Test Report No.: CTL2507222072-WF04

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1. Duty Cycle

1.1 Test Result

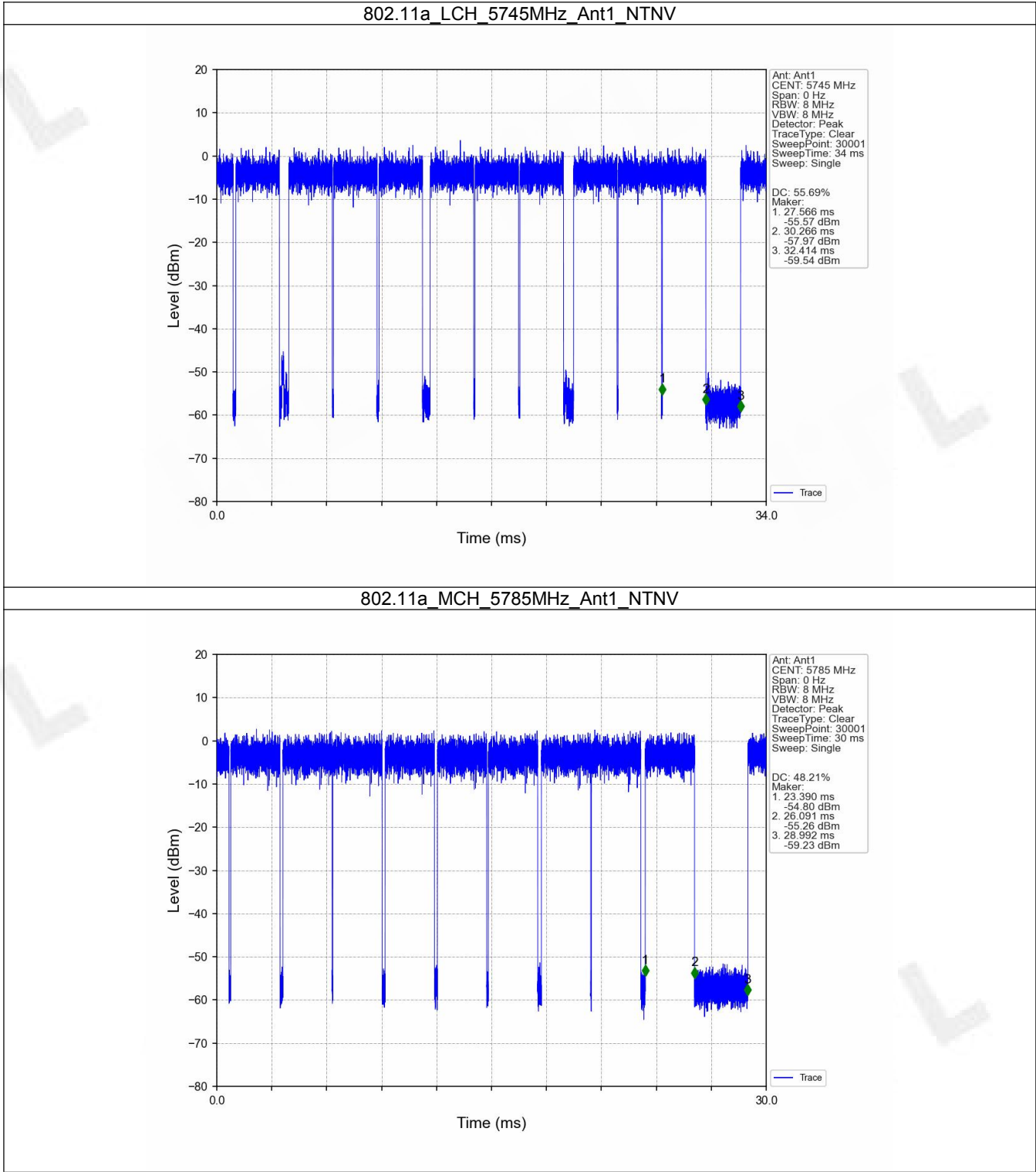
1.1.1 Ant1

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	2.700	4.848	55.69	2.54	42.93
		5785	2.701	5.602	48.21	3.17	50.78
		5825	2.692	4.413	61.00	2.15	37.68
802.11n (HT20)	SISO	5745	2.511	5.004	50.18	2.99	47.19
		5785	2.511	4.132	60.77	2.16	37.37
		5825	2.504	4.877	51.34	2.90	46.23
802.11n (HT40)	SISO	5755	1.232	3.096	39.79	4.00	57.29
		5795	1.225	1.609	76.13	1.18	19.63
802.11ac (VHT20)	SISO	5745	2.523	2.893	87.21	0.59	10.41
		5785	2.513	5.015	50.11	3.00	48.49
		5825	2.520	2.658	94.81	0.23	3.67
802.11ac (VHT40)	SISO	5755	1.232	1.643	74.98	1.25	9.41
		5795	1.239	1.716	72.20	1.41	22.75
802.11ac (VHT80)	SISO	5775	0.593	1.141	51.97	2.84	19.70

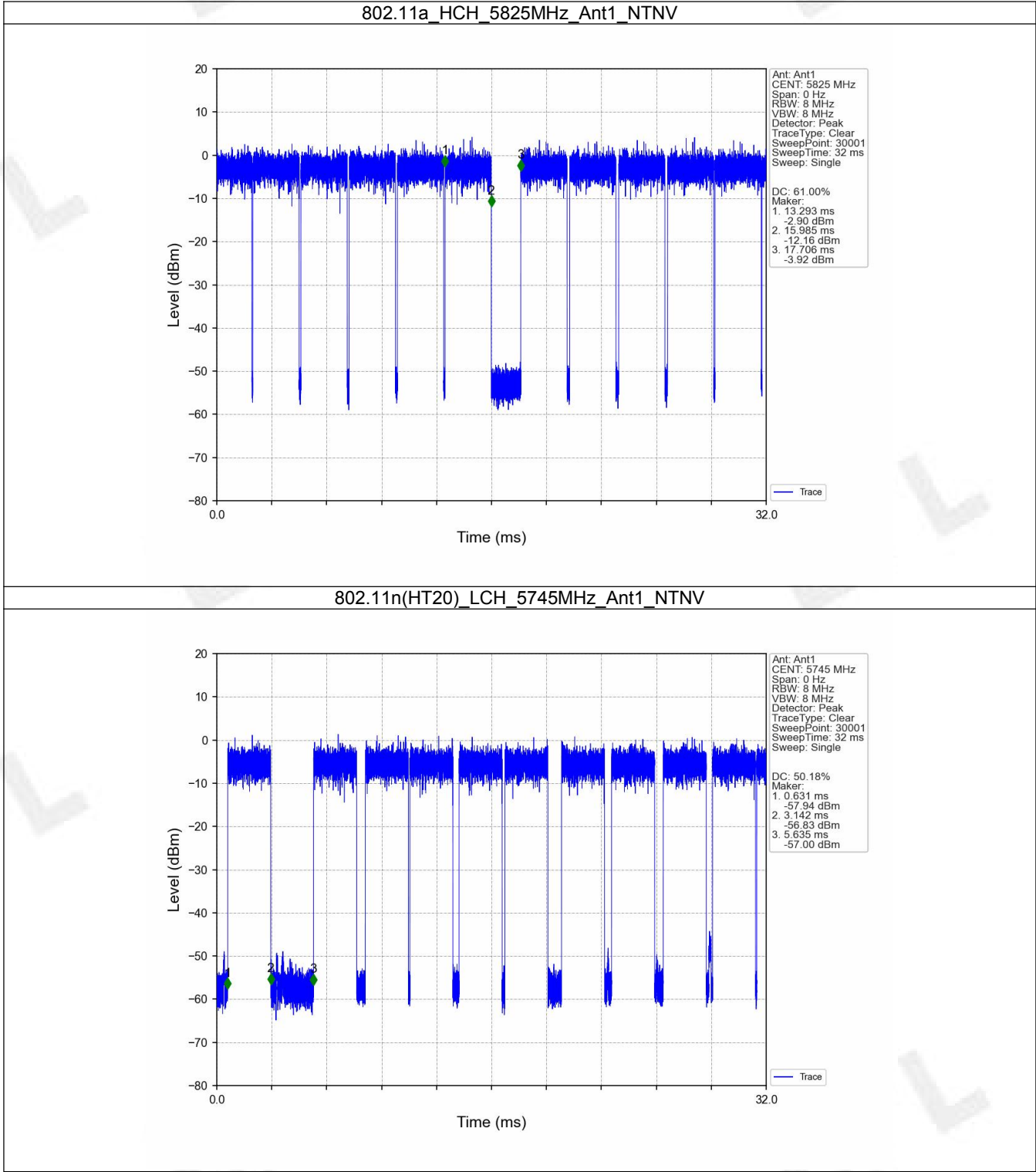
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1.2 Test Graph

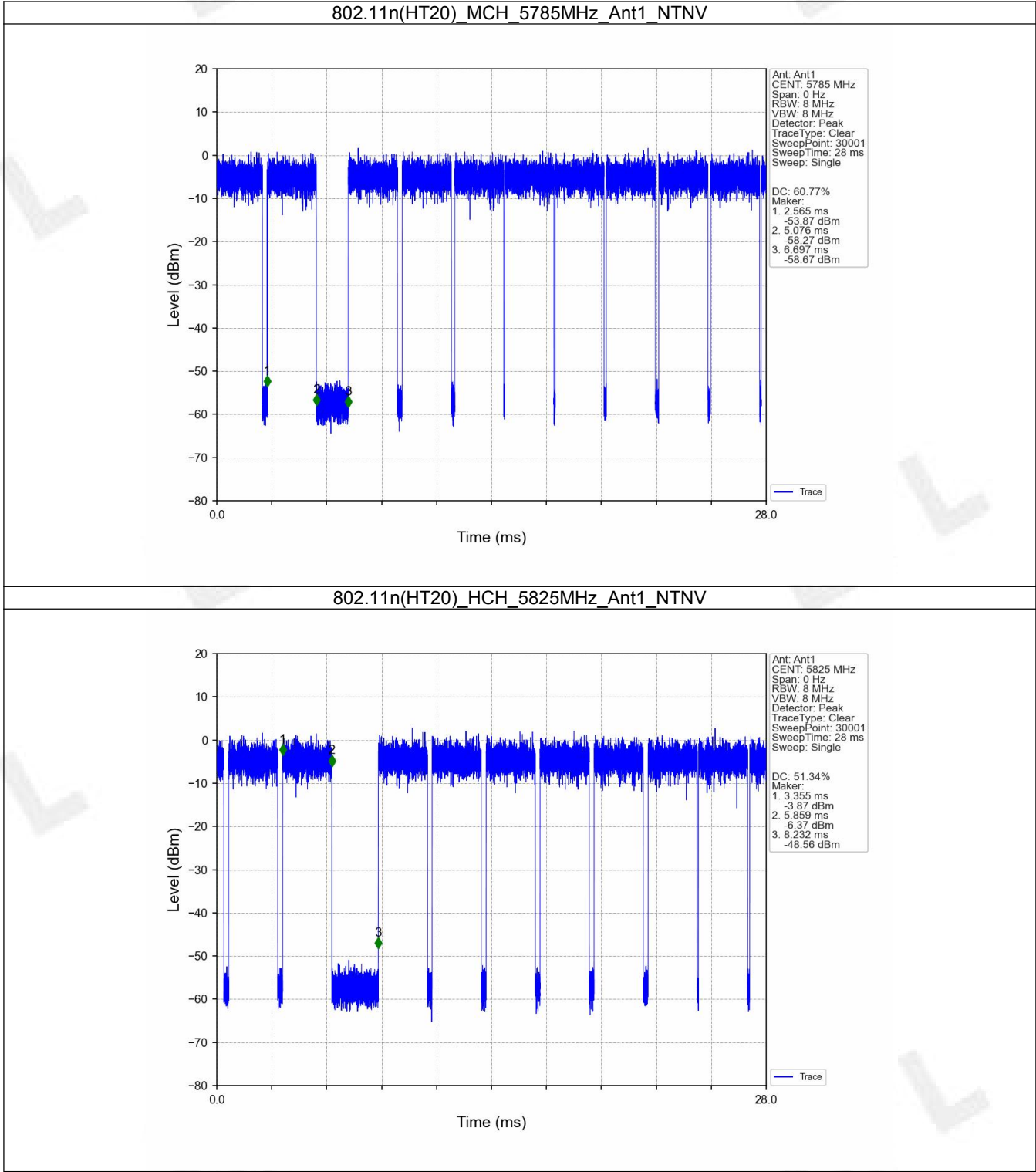
1.2.1 Ant1



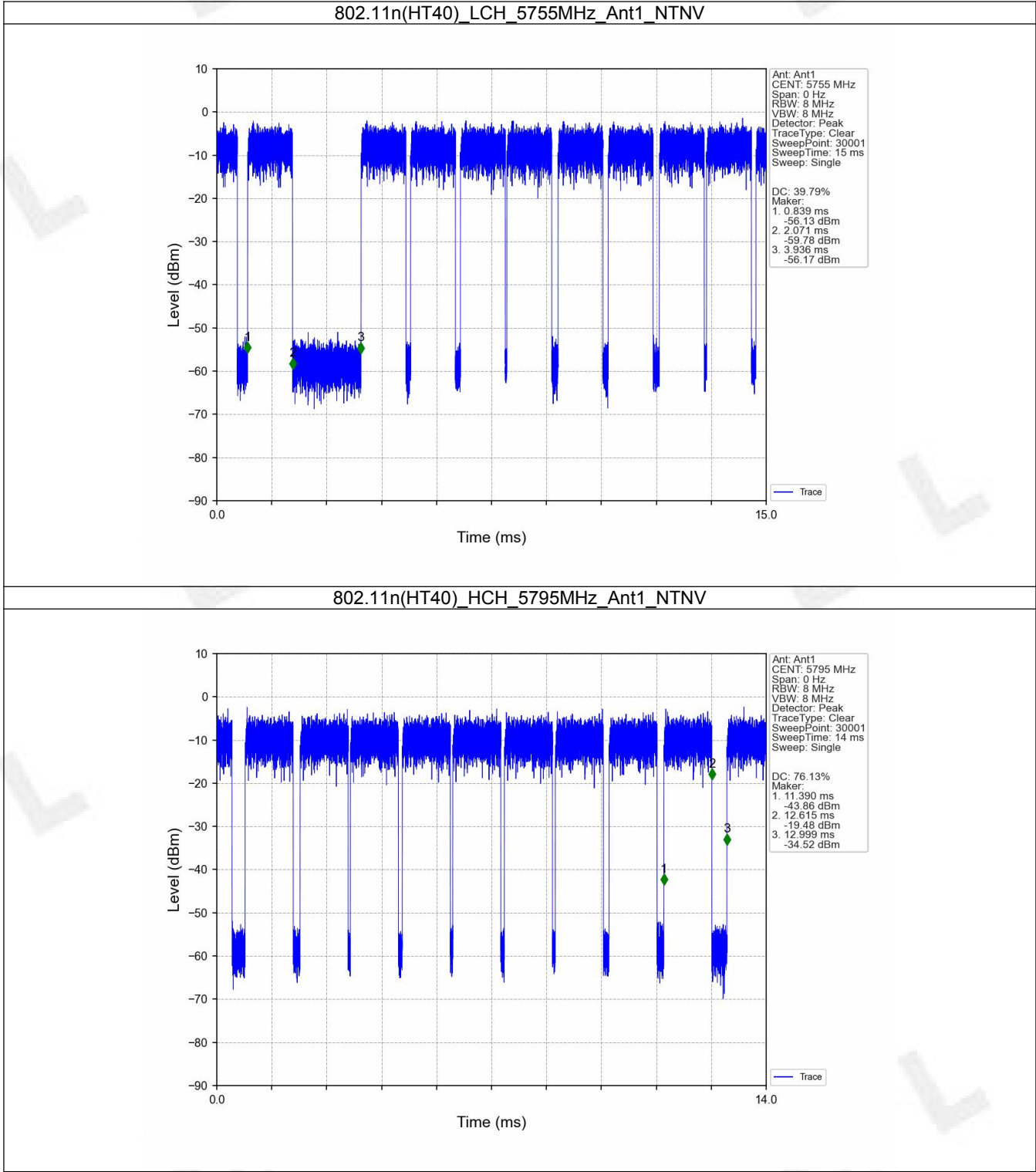
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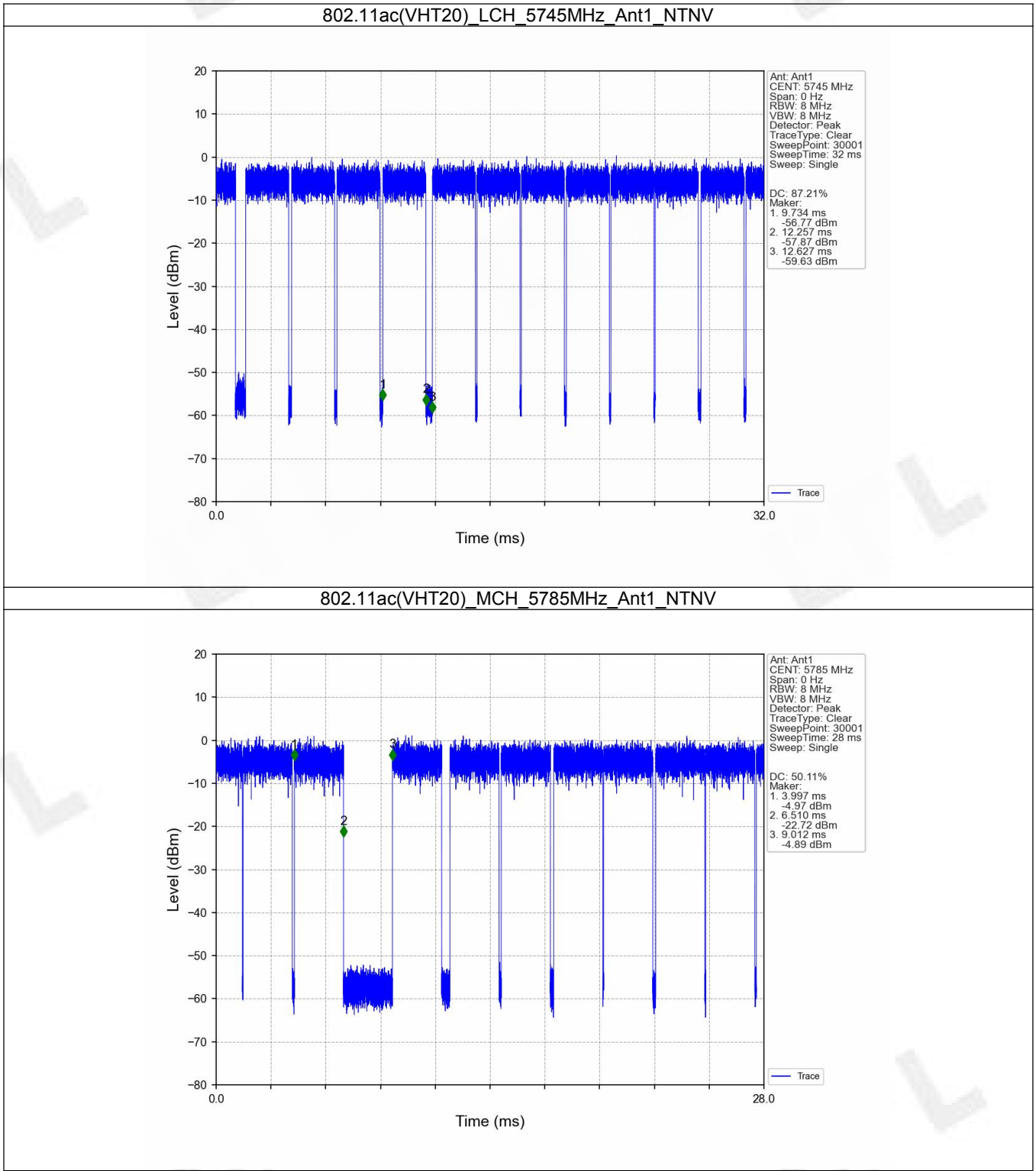
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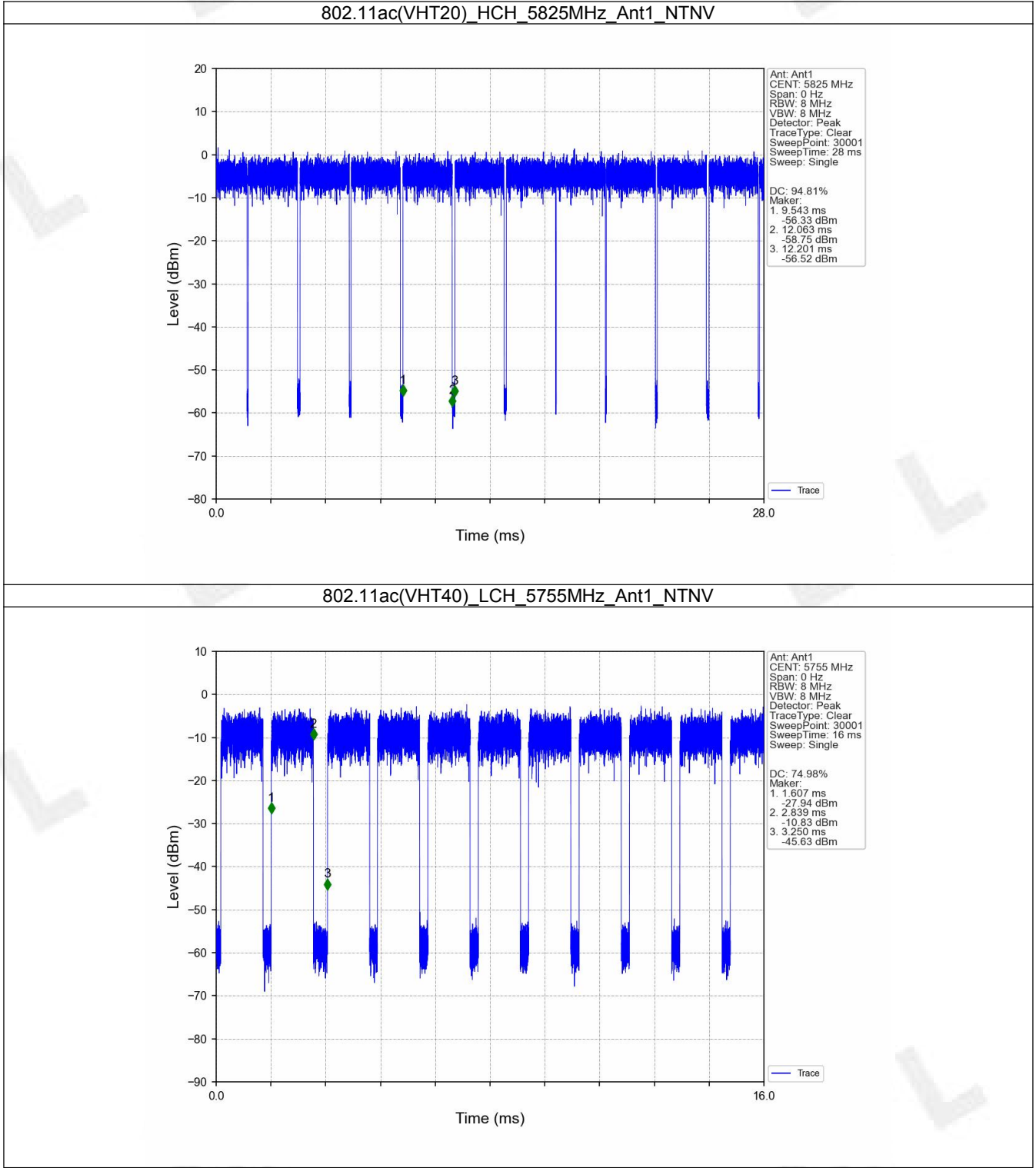
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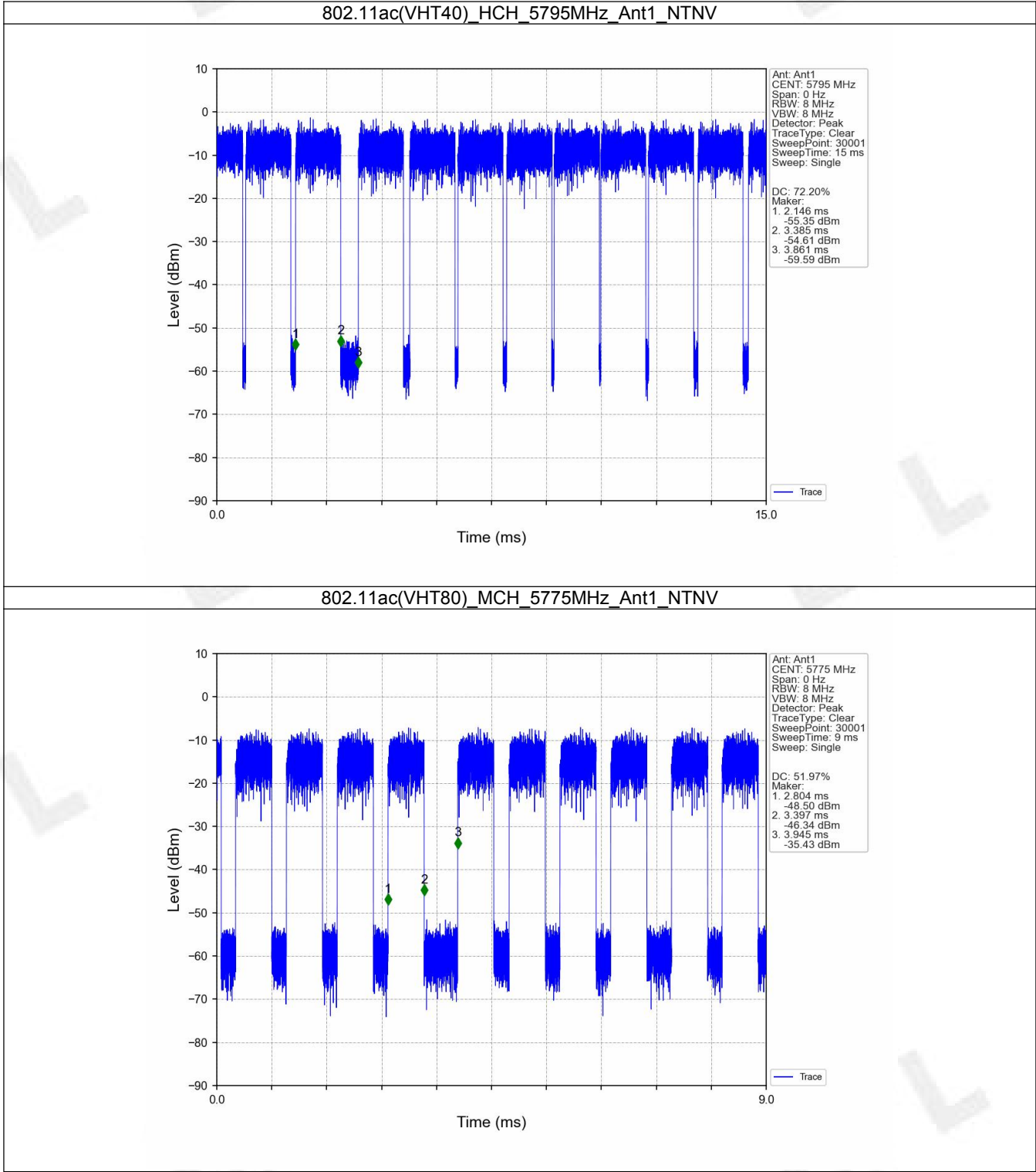
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2. Bandwidth

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	17.931	/	Pass
		5785	1	17.781	/	Pass
		5825	1	17.755	/	Pass
802.11n (HT20)	SISO	5745	1	18.735	/	Pass
		5785	1	18.730	/	Pass
		5825	1	18.657	/	Pass
802.11n (HT40)	SISO	5755	1	37.093	/	Pass
		5795	1	37.160	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.745	/	Pass
		5785	1	18.683	/	Pass
		5825	1	18.715	/	Pass
802.11ac (VHT40)	SISO	5755	1	37.158	/	Pass
		5795	1	37.000	/	Pass
802.11ac (VHT80)	SISO	5775	1	76.704	/	Pass

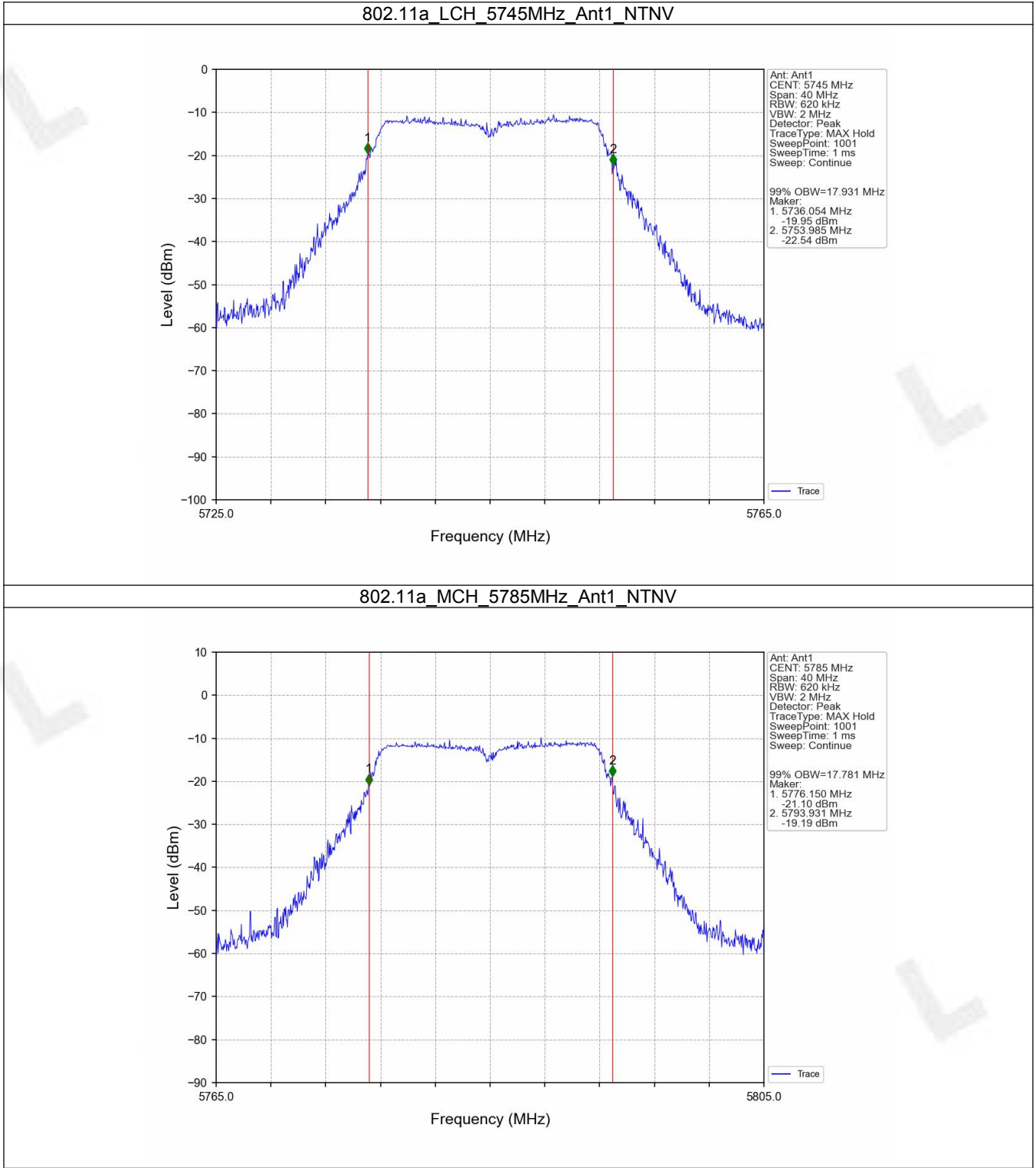
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.422	≥ 0.5	Pass
		5785	1	16.371	≥ 0.5	Pass
		5825	1	16.387	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.595	≥ 0.5	Pass
		5785	1	17.552	≥ 0.5	Pass
		5825	1	17.578	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.118	≥ 0.5	Pass
		5795	1	36.068	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.611	≥ 0.5	Pass
		5785	1	17.600	≥ 0.5	Pass
		5825	1	17.648	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.079	≥ 0.5	Pass
		5795	1	36.013	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.366	≥ 0.5	Pass

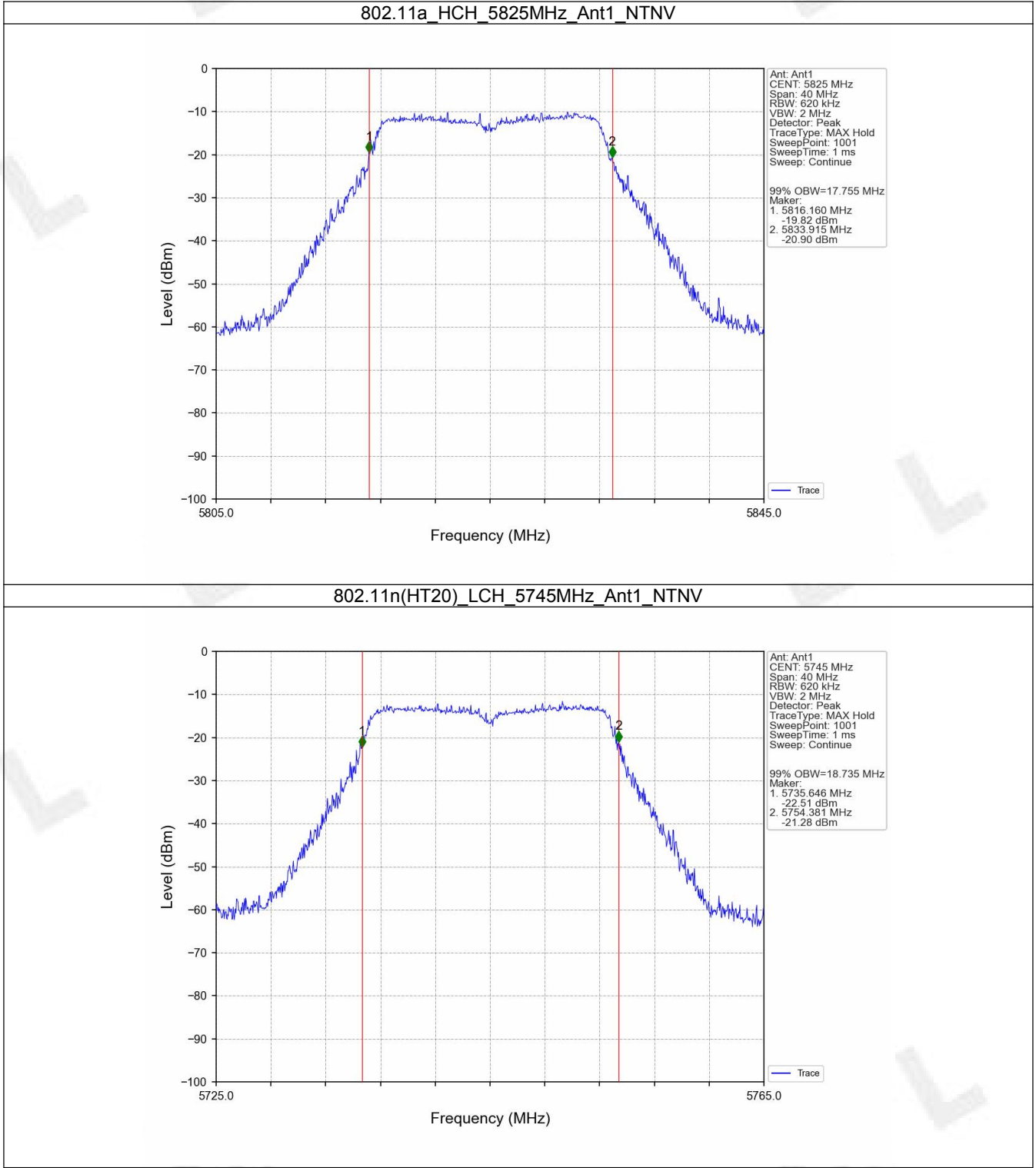
FCCID: 2ASC7DS500BT

2.2 Test Graph

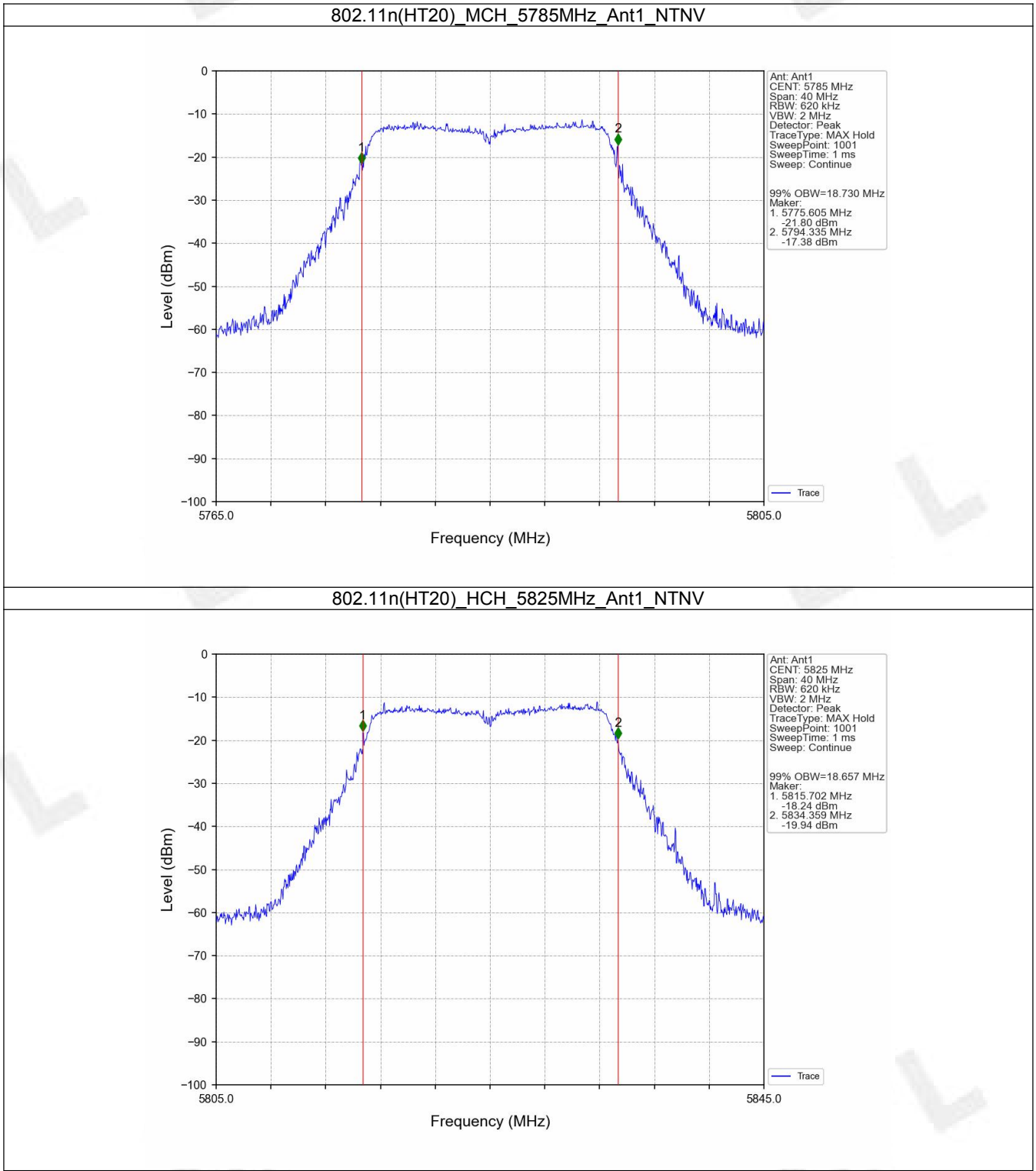
2.2.1 OBW



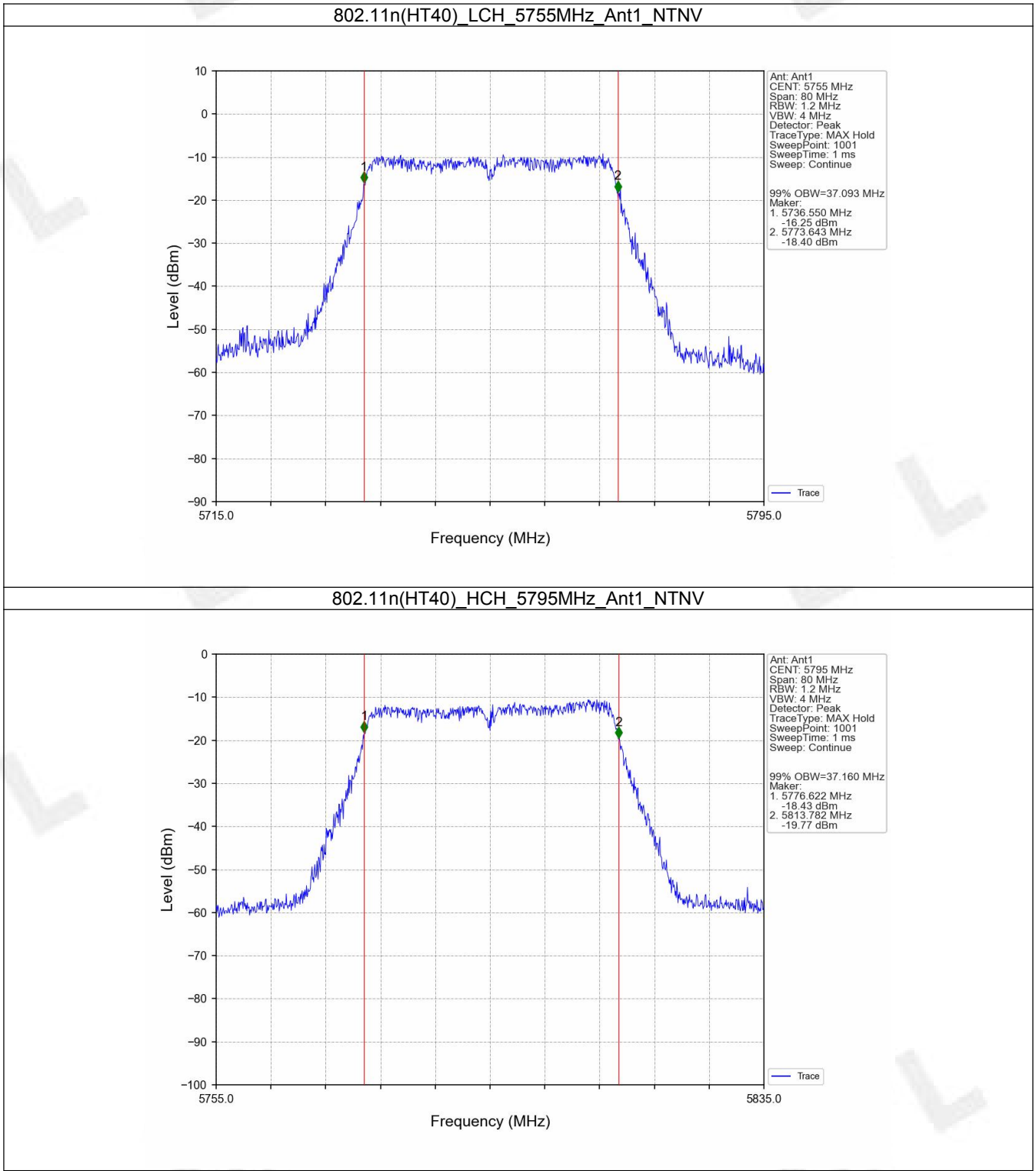
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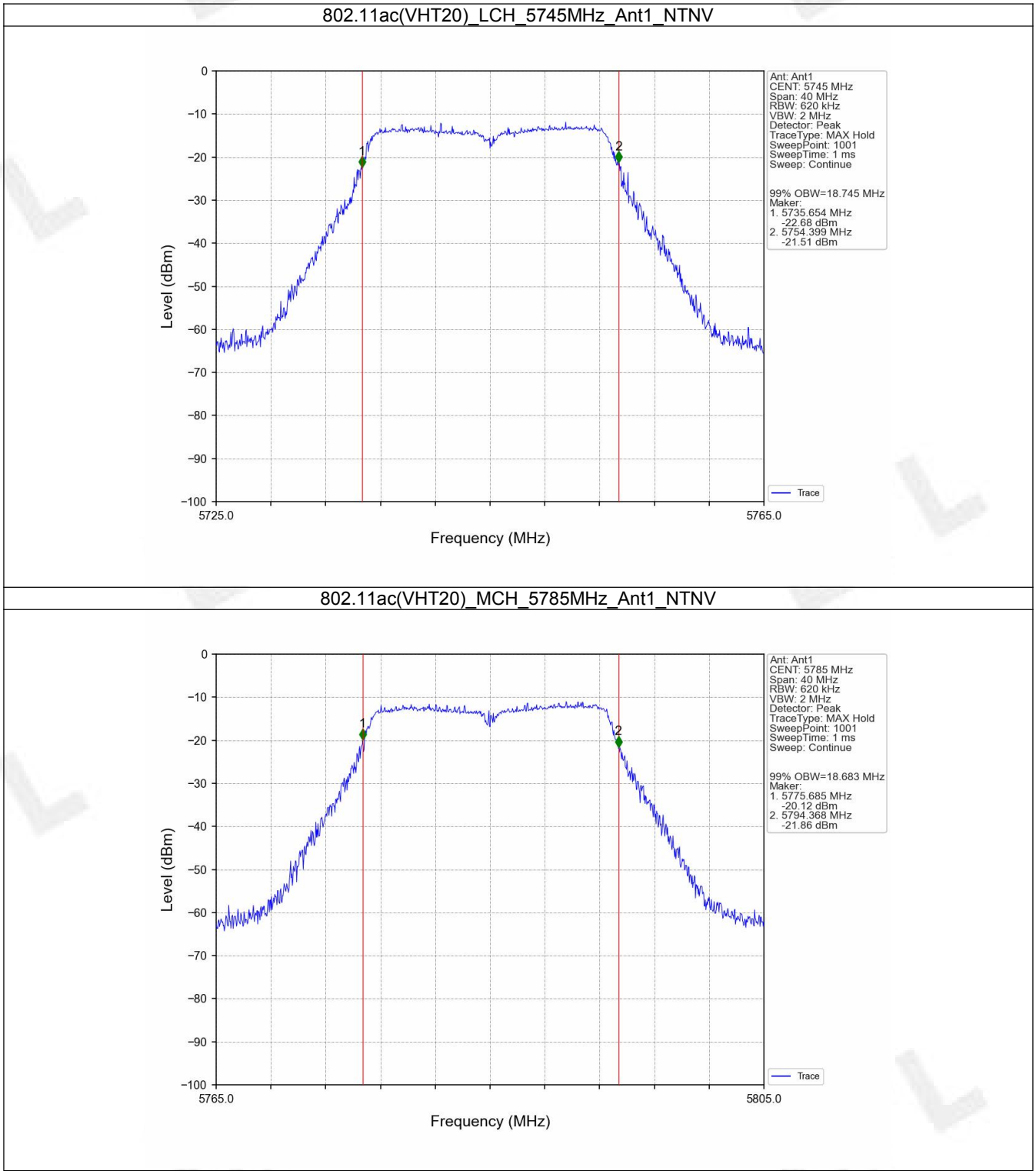
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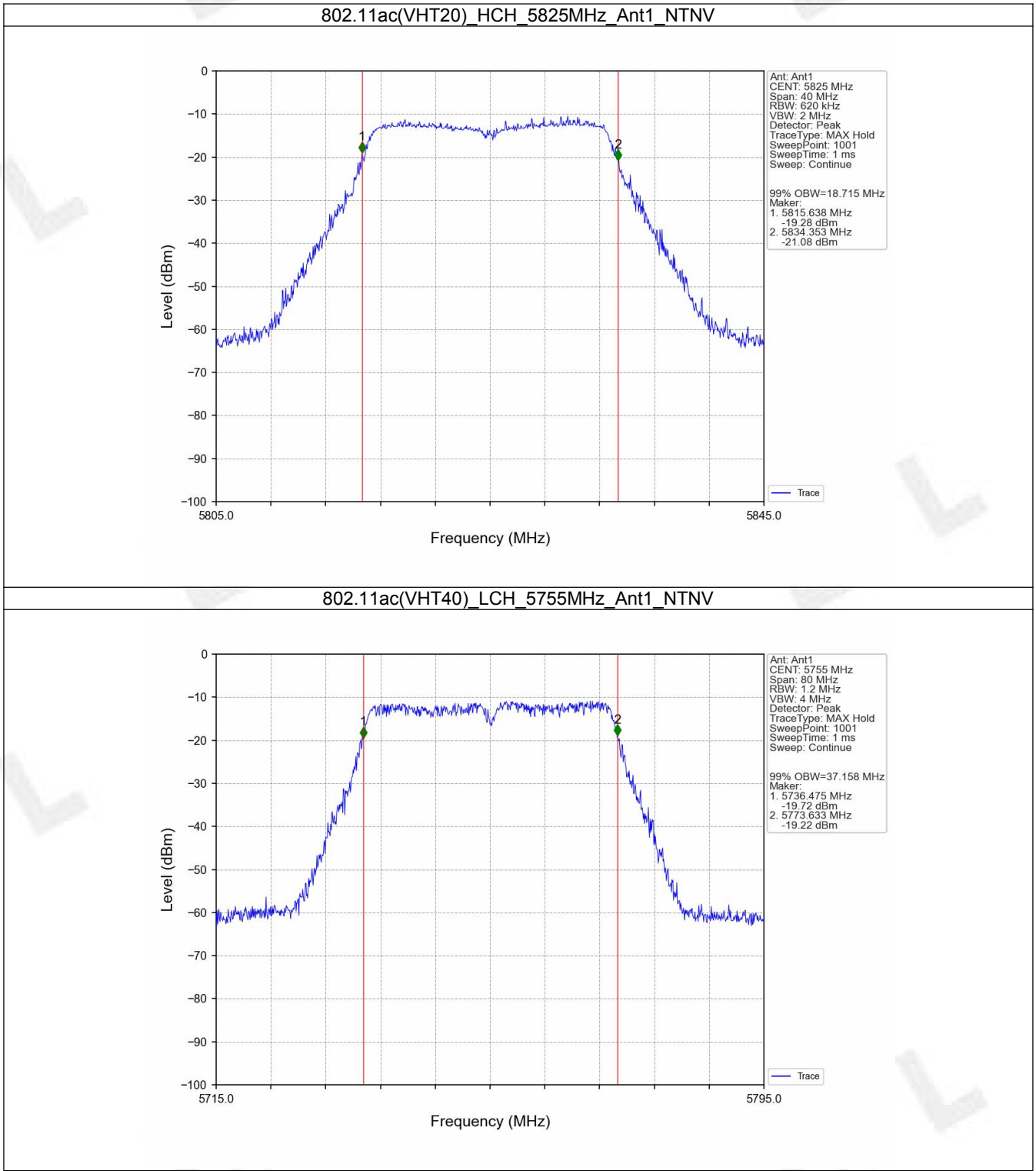
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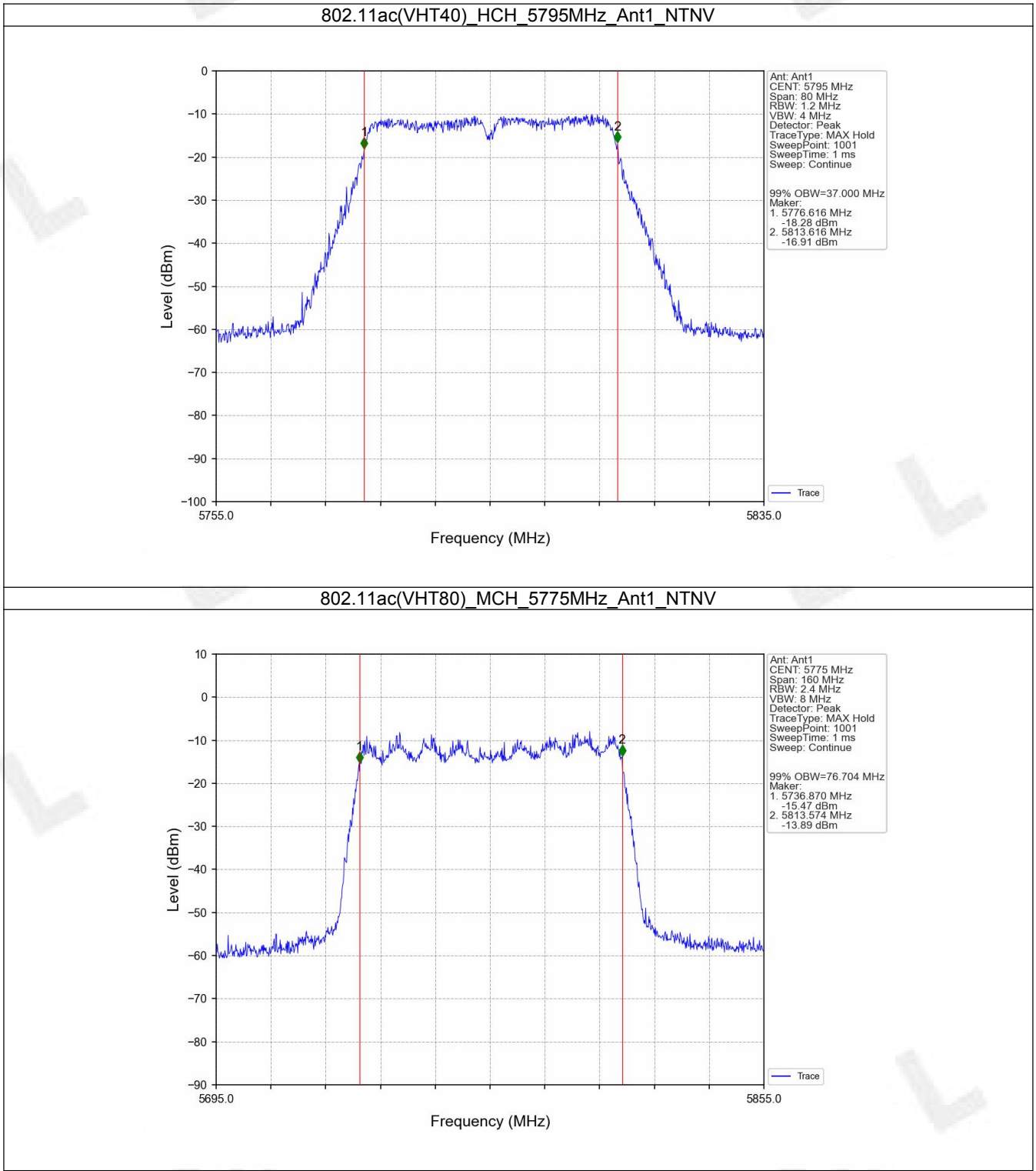
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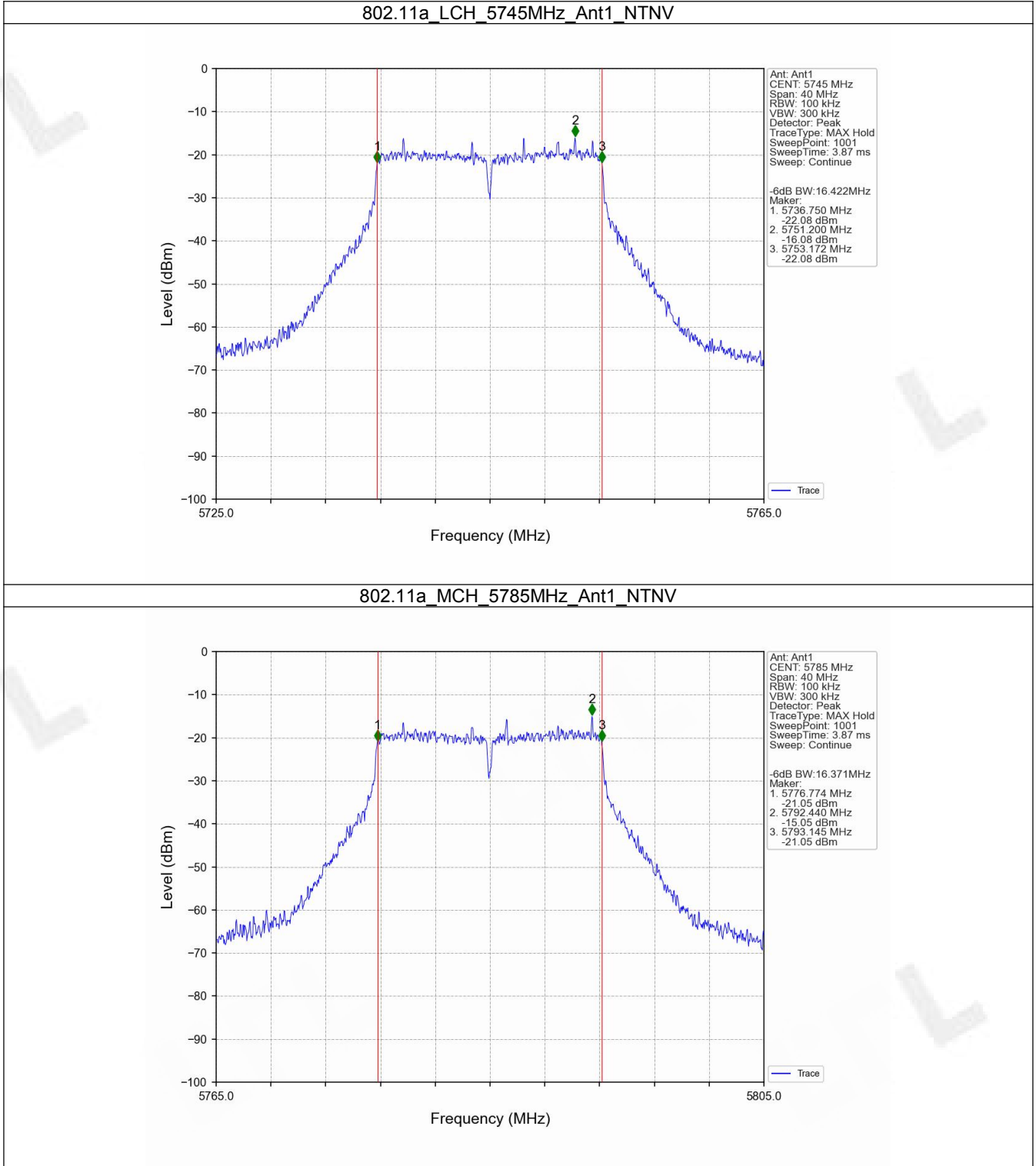


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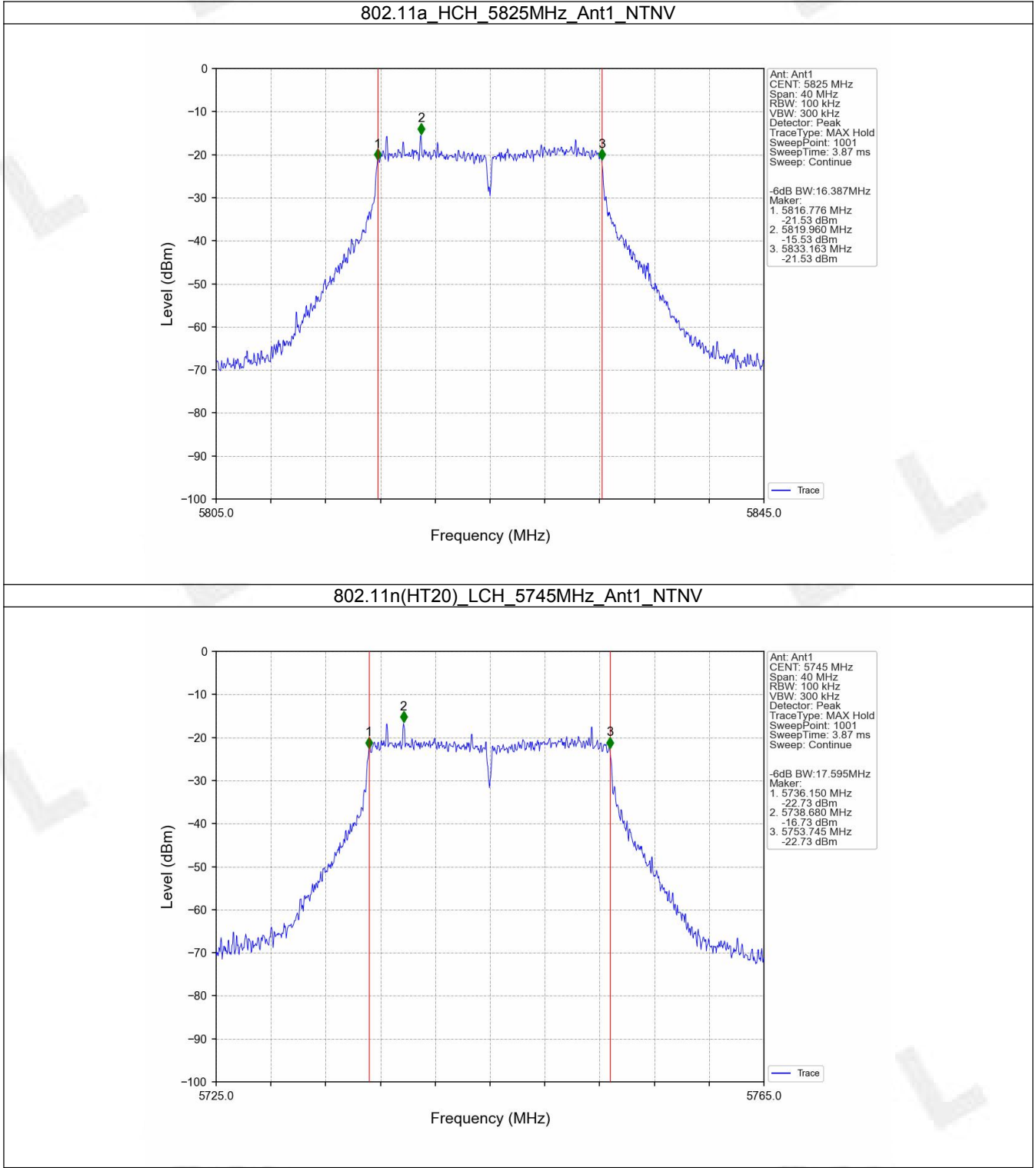


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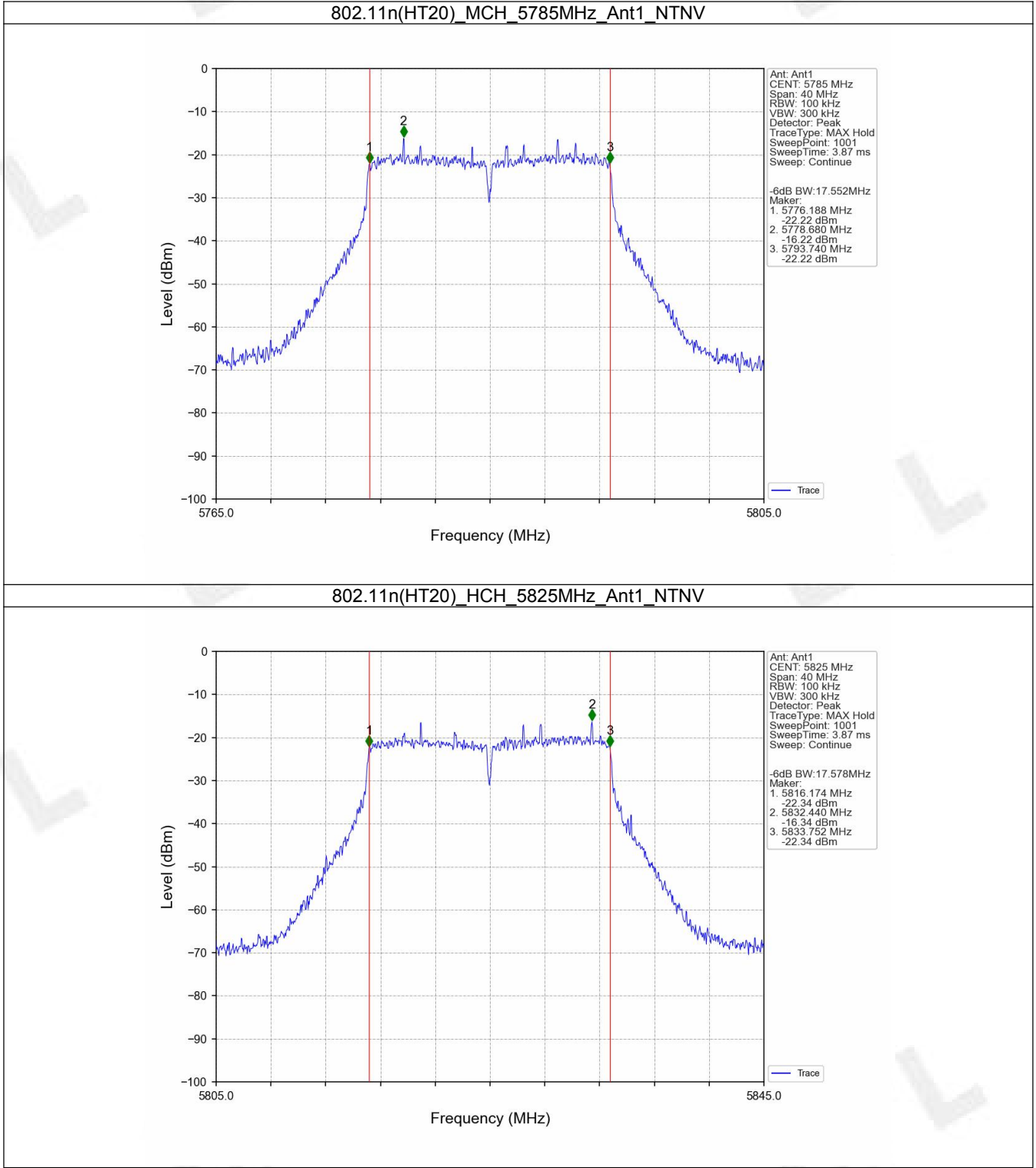
2.2.2 6dB BW



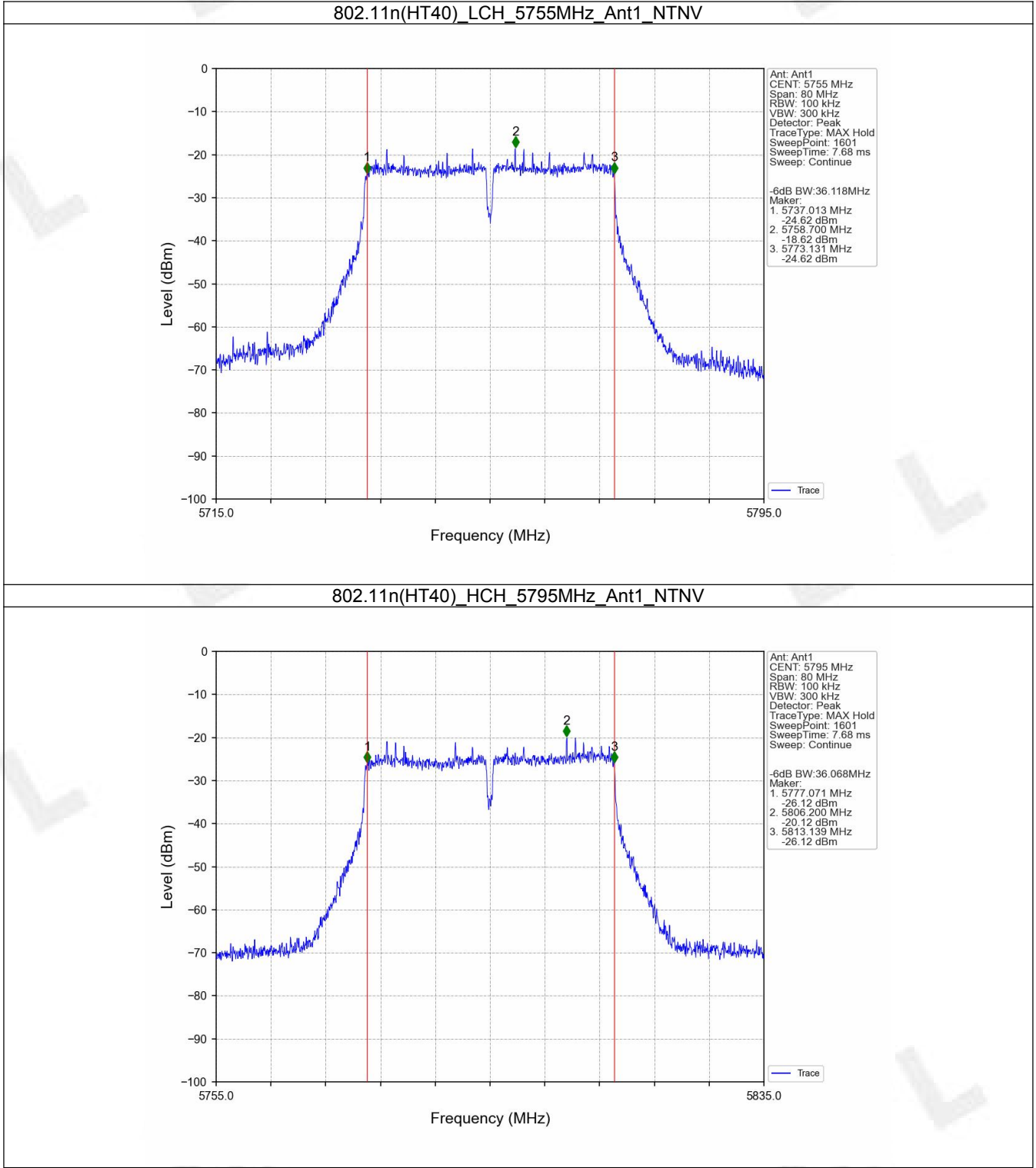
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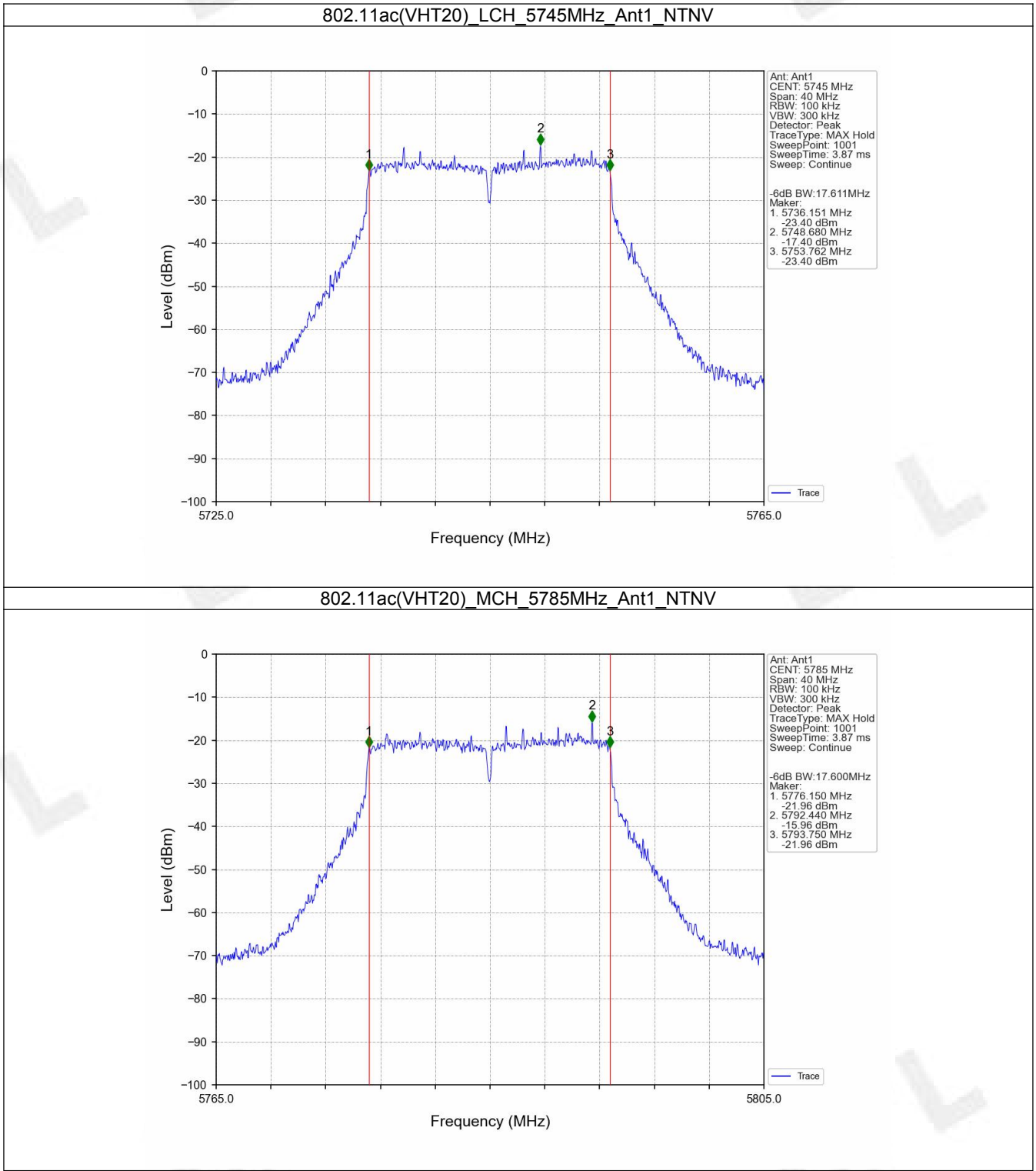
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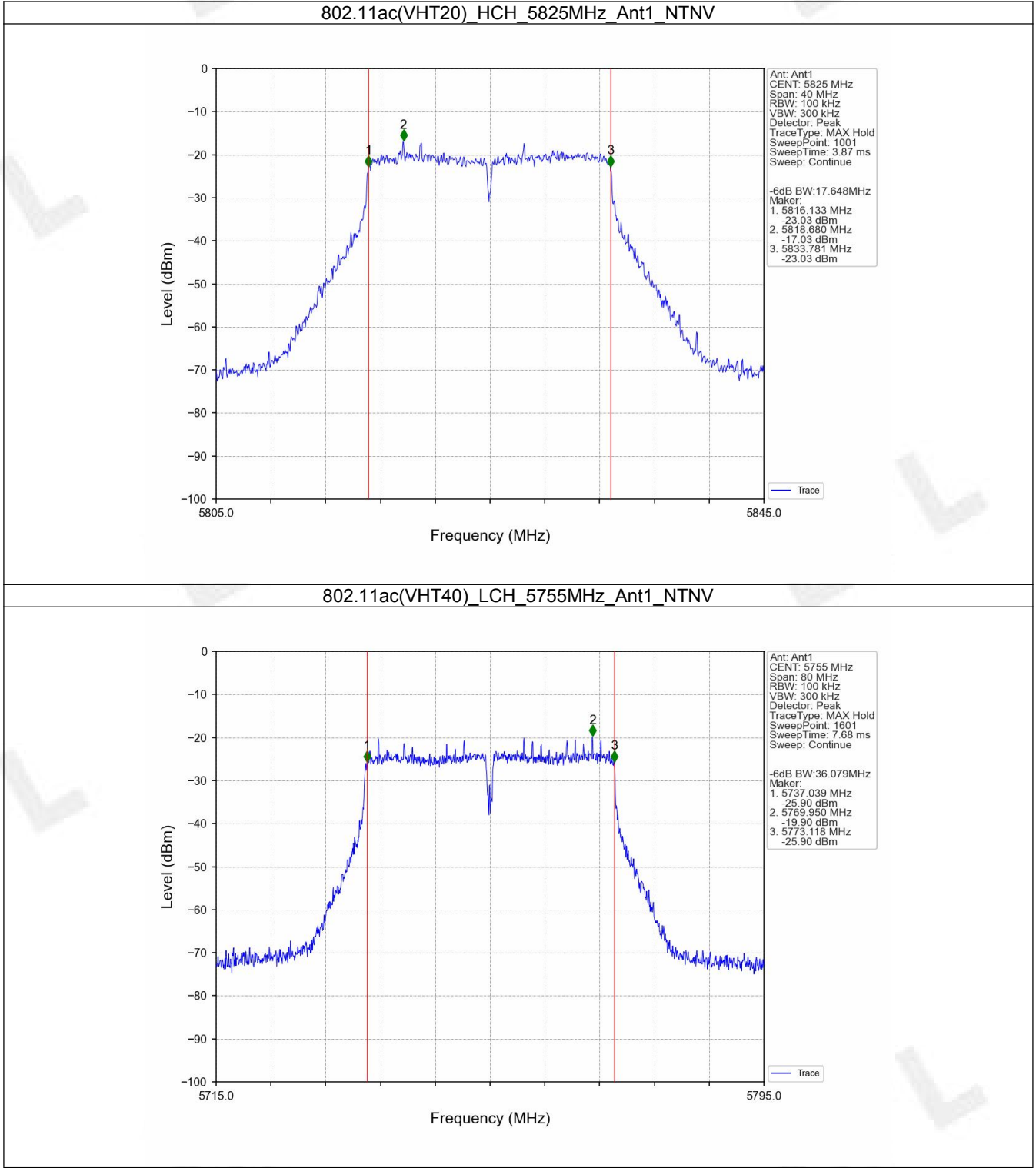
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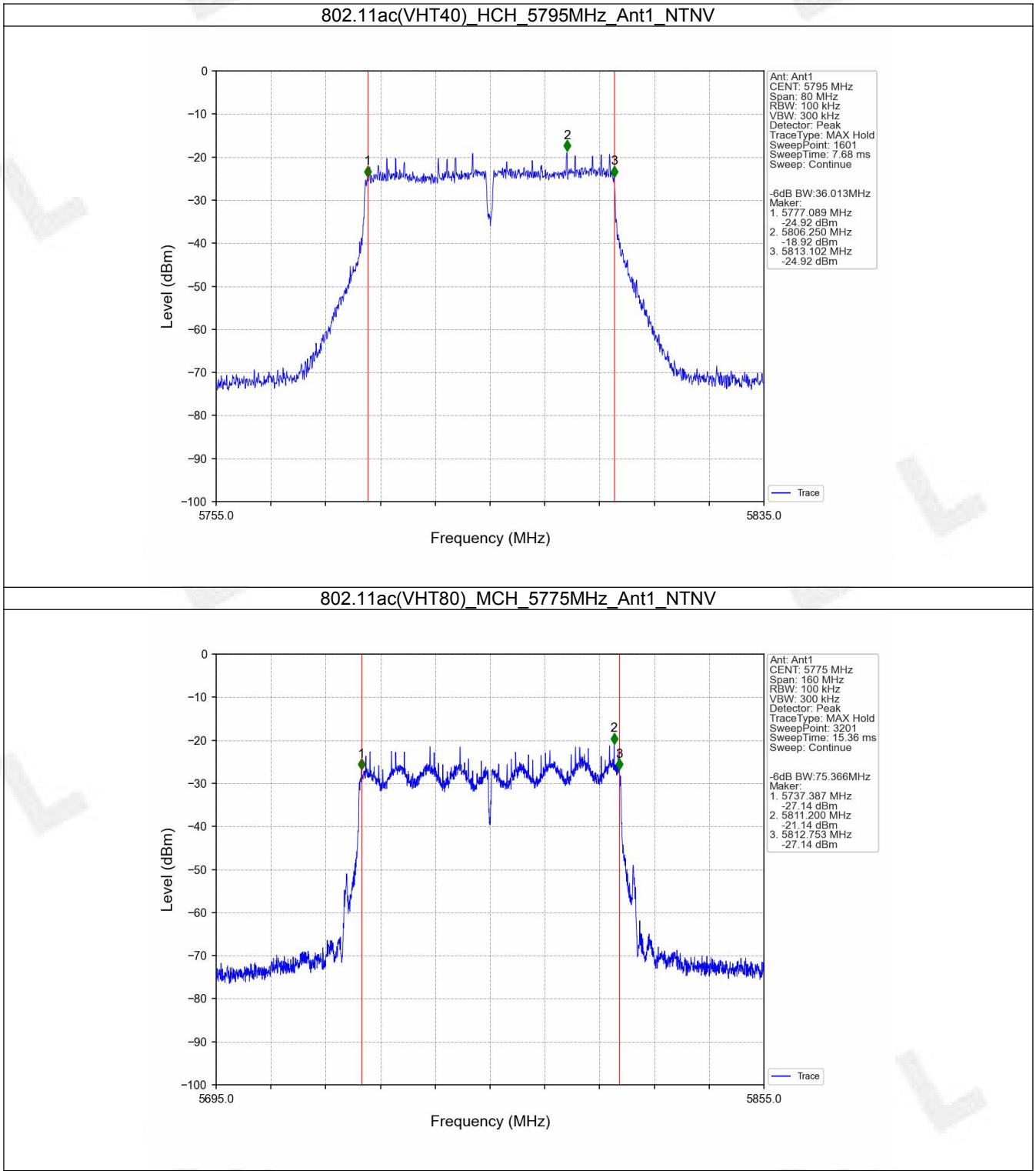
FCCID: 2ASC7DS500BT



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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
			ANT1	Limit	
802.11a	SISO	5745	-4.98	<=30	Pass
		5785	-3.75	<=30	Pass
		5825	-3.63	<=30	Pass
802.11n (HT20)	SISO	5745	-6.15	<=30	Pass
		5785	-5.13	<=30	Pass
		5825	-4.64	<=30	Pass
802.11n (HT40)	SISO	5755	-4.53	<=30	Pass
		5795	-5.74	<=30	Pass
802.11ac (VHT20)	SISO	5745	-6.32	<=30	Pass
		5785	-5.45	<=30	Pass
		5825	-5.03	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.07	<=30	Pass
		5795	-5.61	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.25	<=30	Pass

Note1: Antenna Gain: Ant1: 3.52dBi;

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD-Band3

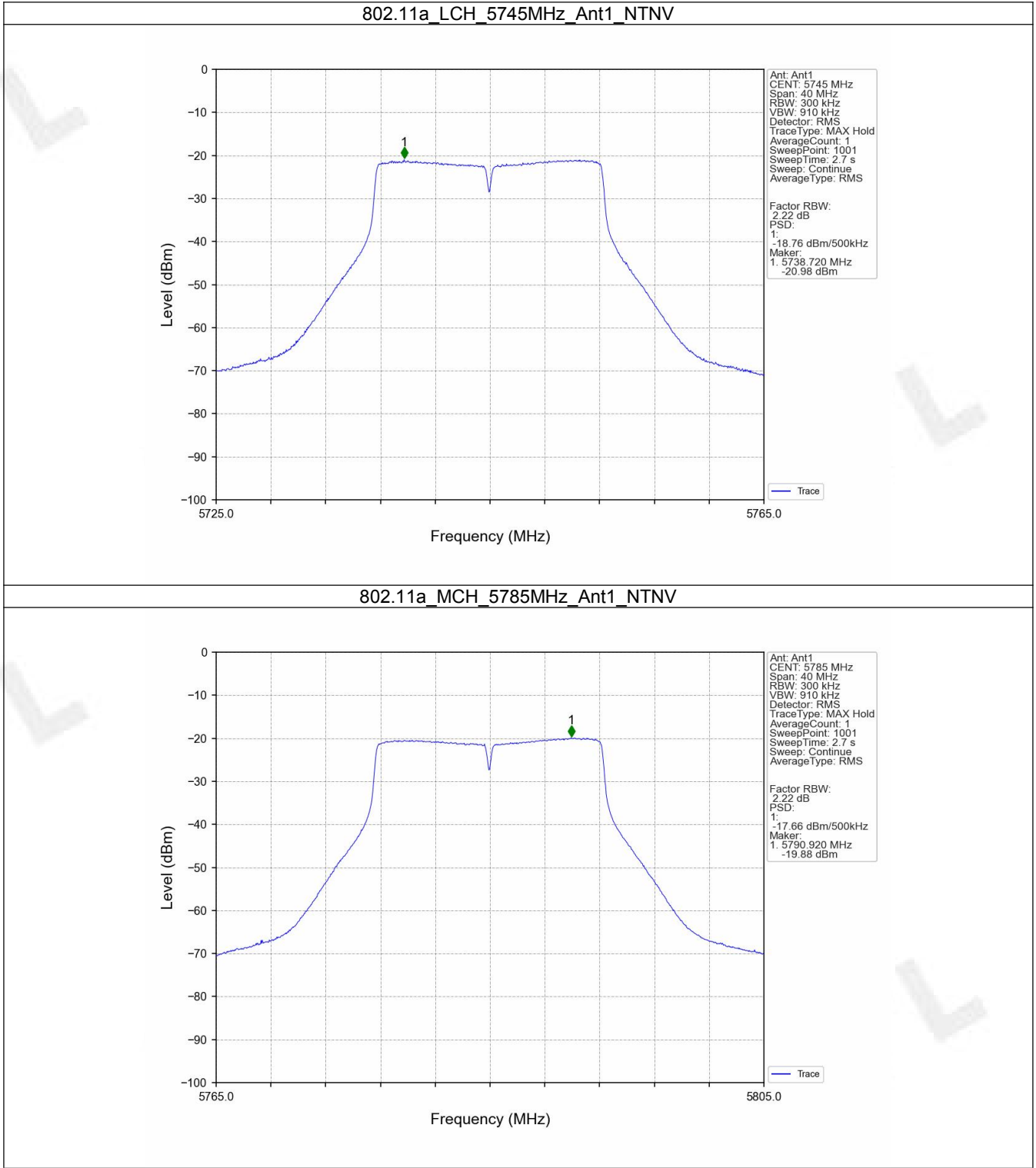
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-18.76	<=30	Pass
		5785	-17.66	<=30	Pass
		5825	-17.65	<=30	Pass
802.11n (HT20)	SISO	5745	-20.28	<=30	Pass
		5785	-19.33	<=30	Pass
		5825	-18.63	<=30	Pass
802.11n (HT40)	SISO	5755	-21.83	<=30	Pass
		5795	-22.18	<=30	Pass
802.11ac (VHT20)	SISO	5745	-20.41	<=30	Pass
		5785	-19.65	<=30	Pass
		5825	-19.23	<=30	Pass
802.11ac (VHT40)	SISO	5755	-23.35	<=30	Pass
		5795	-22.37	<=30	Pass
802.11ac (VHT80)	SISO	5775	-24.27	<=30	Pass

Note1: Antenna Gain: Ant1: 3.52dBi;

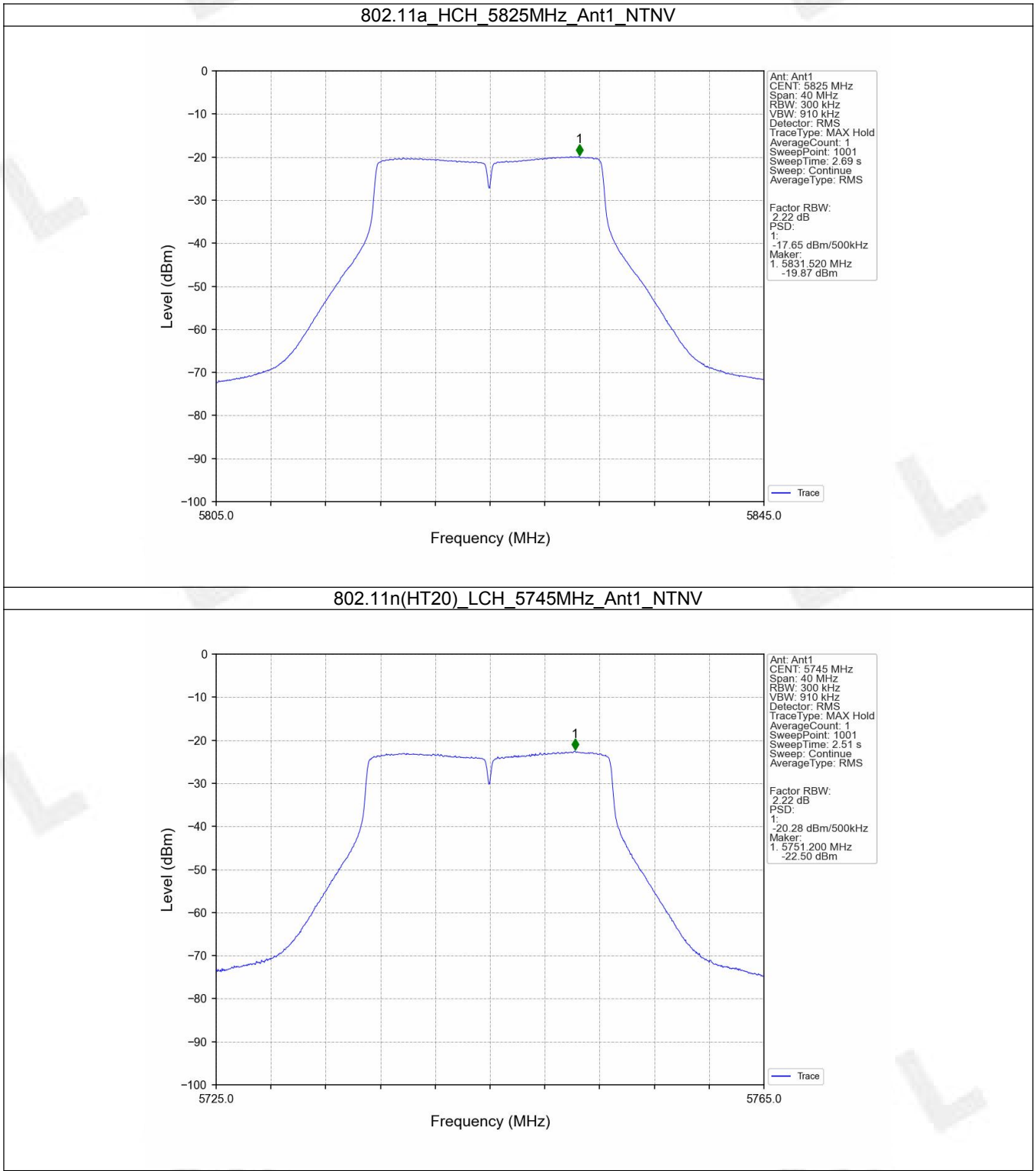
FCCID: 2ASC7DS500BT

4.2 Test Graph

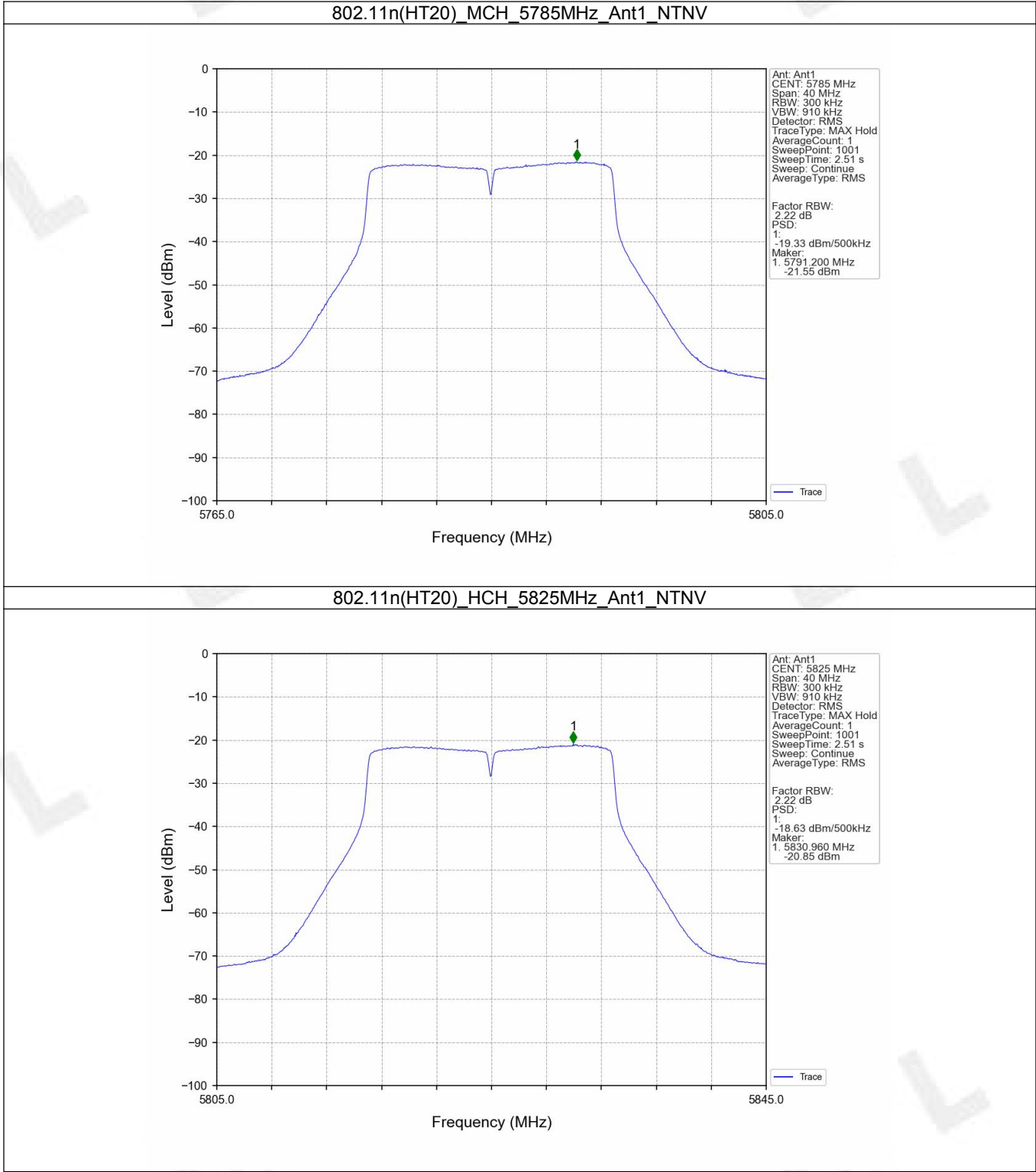
4.2.1 PSD-Band3



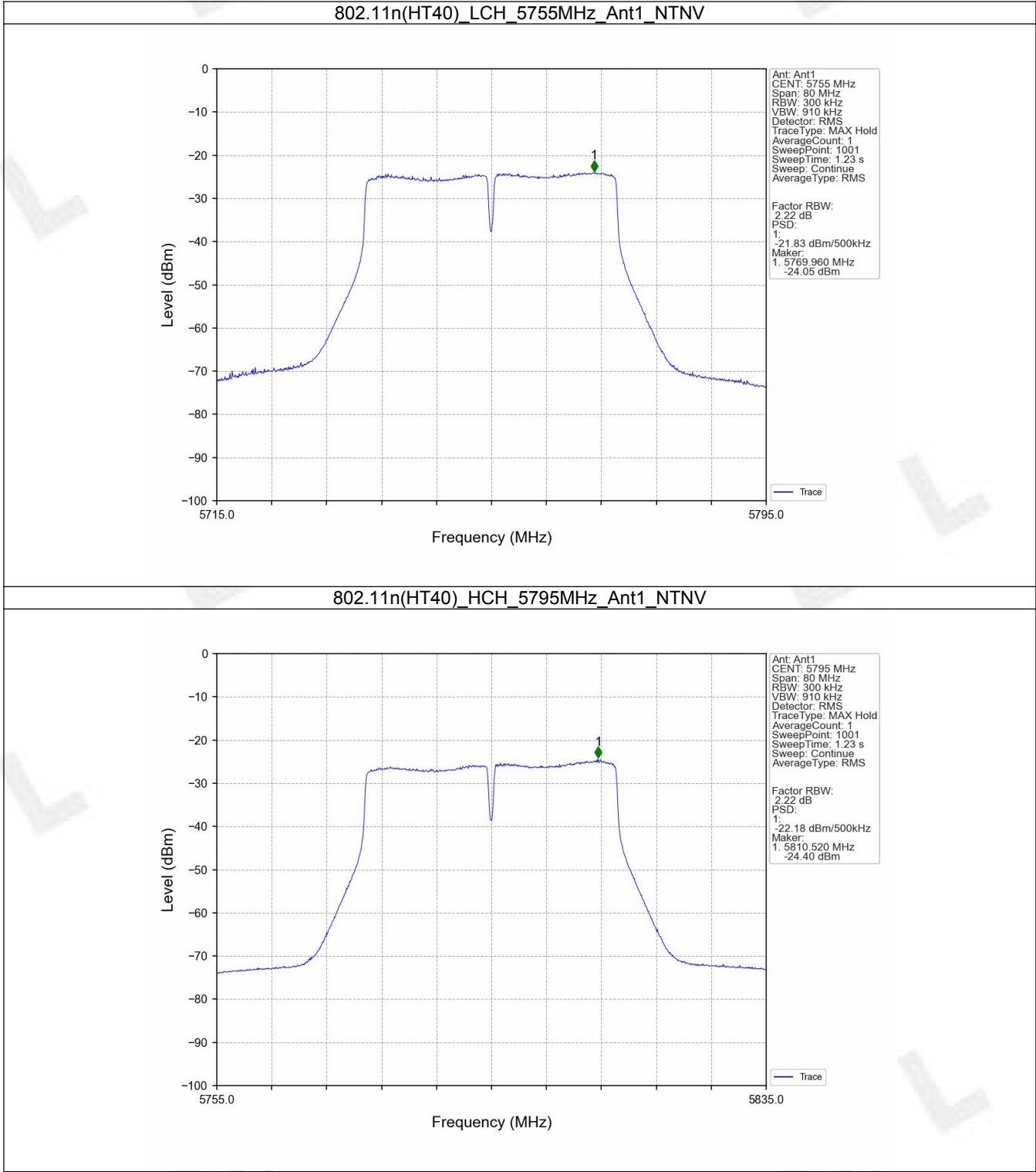
FCCID: 2ASC7DS500BT



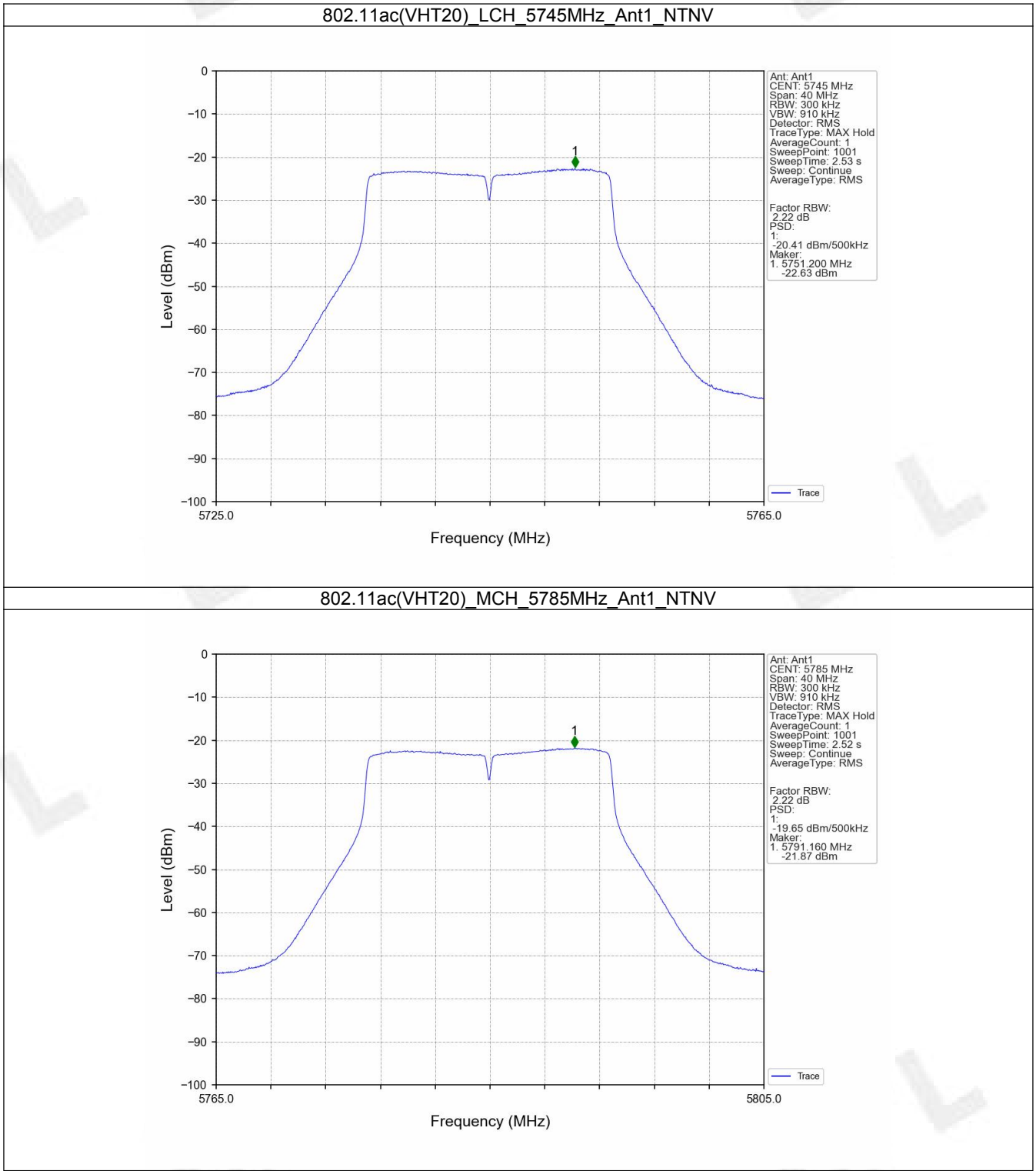
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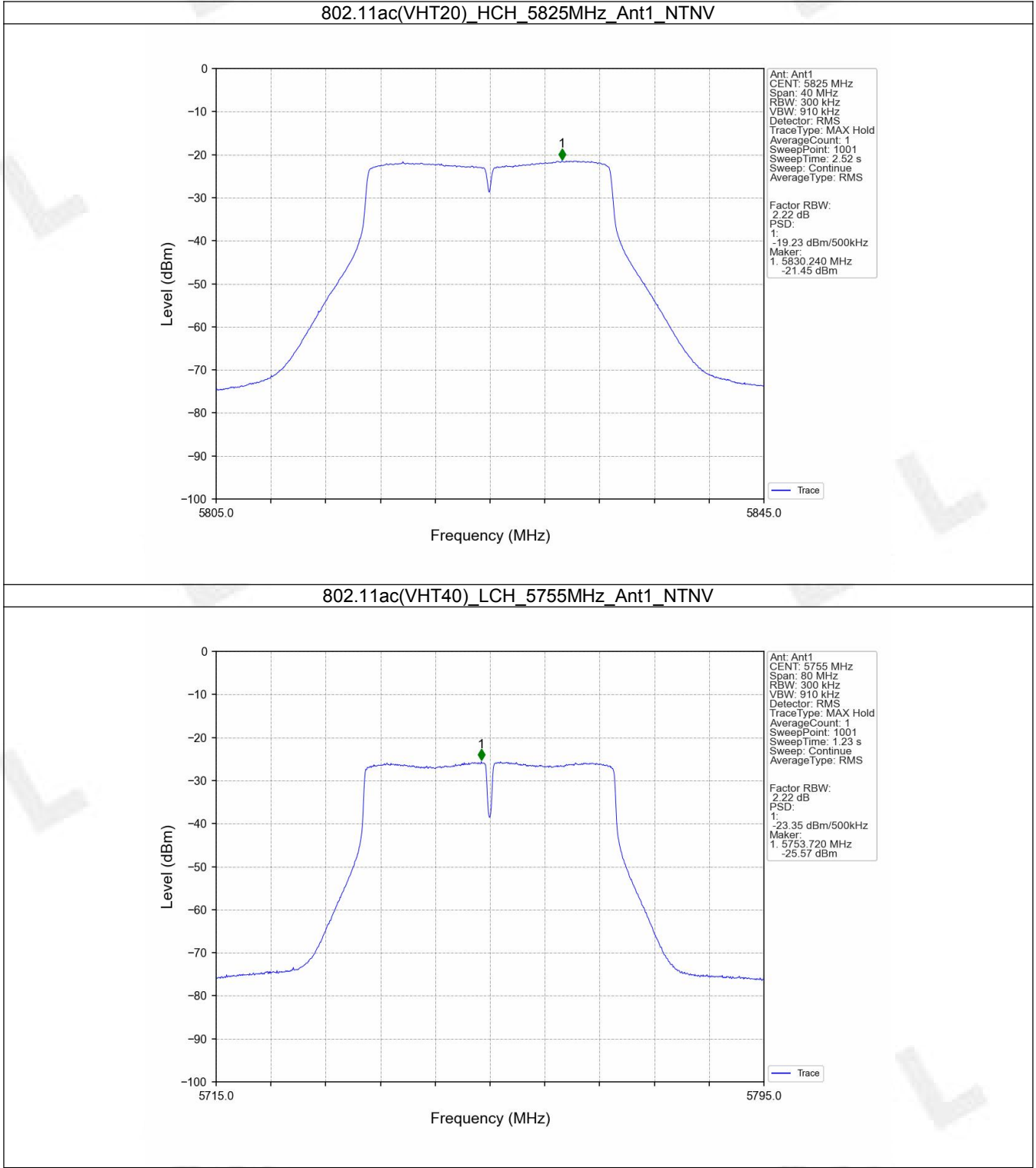
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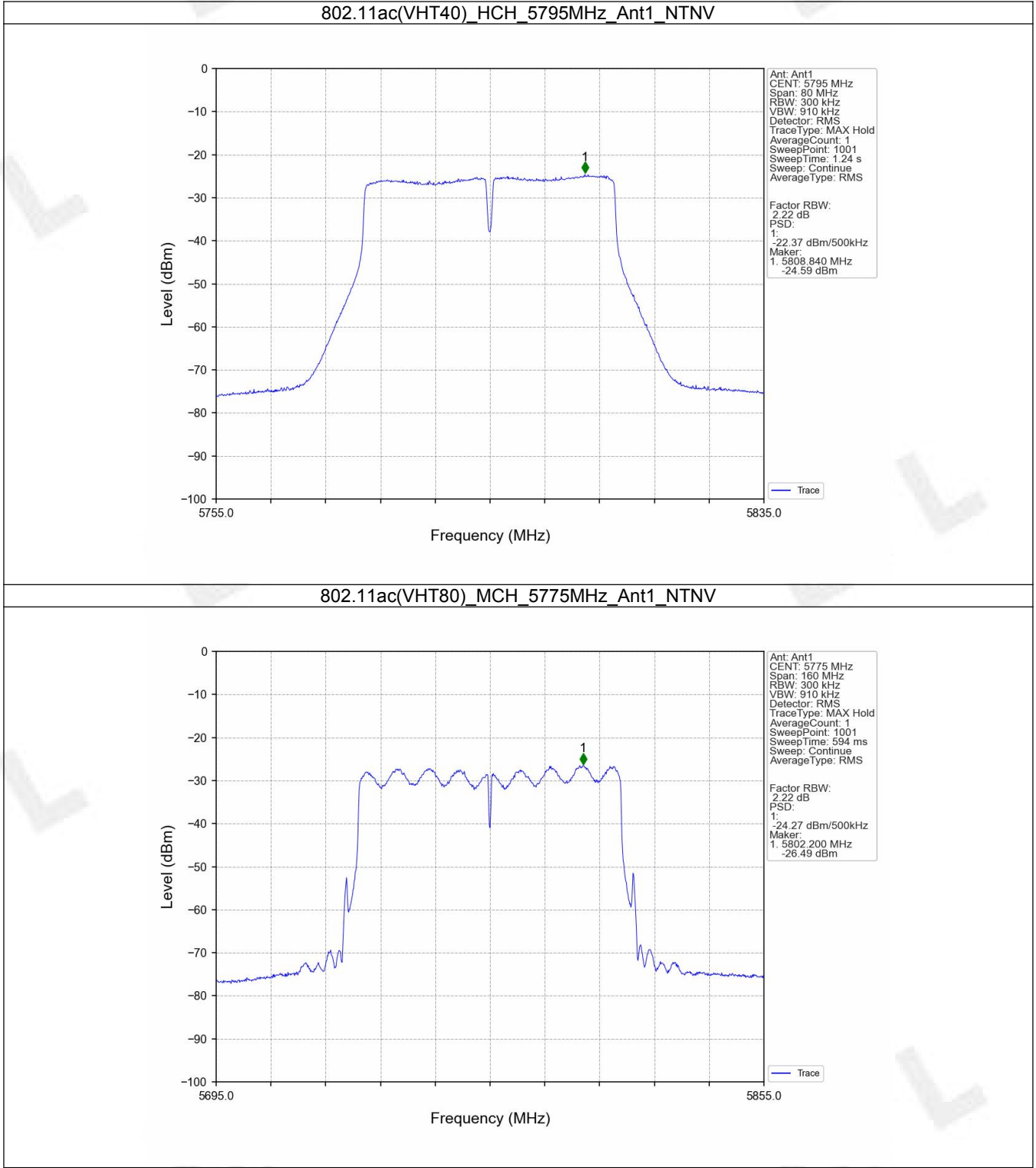
FCCID: 2ASC7DS500BT



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5744.930	5725 to 5850	Pass
				120	5744.930	5725 to 5850	Pass
				138	5744.930	5725 to 5850	Pass
			-30	120	5744.930	5725 to 5850	Pass
			-20	120	5744.930	5725 to 5850	Pass
			-10	120	5744.930	5725 to 5850	Pass
			0	120	5744.930	5725 to 5850	Pass
			10	120	5744.930	5725 to 5850	Pass
			30	120	5744.930	5725 to 5850	Pass
			40	120	5744.929	5725 to 5850	Pass
			50	120	5744.930	5725 to 5850	Pass
		5785	20	102	5784.930	5725 to 5850	Pass
				120	5784.930	5725 to 5850	Pass
				138	5784.930	5725 to 5850	Pass
			-30	120	5784.929	5725 to 5850	Pass
			-20	120	5784.929	5725 to 5850	Pass
			-10	120	5784.929	5725 to 5850	Pass
			0	120	5784.929	5725 to 5850	Pass
			10	120	5784.929	5725 to 5850	Pass
			30	120	5784.929	5725 to 5850	Pass
			40	120	5784.929	5725 to 5850	Pass
			50	120	5784.929	5725 to 5850	Pass
		5825	20	102	5824.929	5725 to 5850	Pass
				120	5824.929	5725 to 5850	Pass
				138	5824.929	5725 to 5850	Pass
			-30	120	5824.929	5725 to 5850	Pass
			-20	120	5824.930	5725 to 5850	Pass
			-10	120	5824.932	5725 to 5850	Pass
			0	120	5824.932	5725 to 5850	Pass
			10	120	5824.932	5725 to 5850	Pass
			30	120	5824.933	5725 to 5850	Pass
			40	120	5824.933	5725 to 5850	Pass
			50	120	5824.933	5725 to 5850	Pass
		5755	20	102	5754.930	5725 to 5850	Pass
				120	5754.930	5725 to 5850	Pass
				138	5754.930	5725 to 5850	Pass
			-30	120	5754.930	5725 to 5850	Pass
			-20	120	5754.930	5725 to 5850	Pass
			-10	120	5754.929	5725 to 5850	Pass
			0	120	5754.929	5725 to 5850	Pass
			10	120	5754.932	5725 to 5850	Pass
			30	120	5754.933	5725 to 5850	Pass
			40	120	5754.933	5725 to 5850	Pass
			50	120	5754.933	5725 to 5850	Pass

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		5795	20	102	5794.930	5725 to 5850	Pass
				120	5794.929	5725 to 5850	Pass
				138	5794.932	5725 to 5850	Pass
			-30	120	5794.933	5725 to 5850	Pass
			-20	120	5794.933	5725 to 5850	Pass
			-10	120	5794.933	5725 to 5850	Pass
			0	120	5794.933	5725 to 5850	Pass
			10	120	5794.933	5725 to 5850	Pass
			30	120	5794.933	5725 to 5850	Pass
			40	120	5794.933	5725 to 5850	Pass
		5775	20	102	5774.930	5725 to 5850	Pass
				120	5774.930	5725 to 5850	Pass
				138	5774.929	5725 to 5850	Pass
			-30	120	5774.929	5725 to 5850	Pass
			-20	120	5774.929	5725 to 5850	Pass
			-10	120	5774.929	5725 to 5850	Pass
			0	120	5774.929	5725 to 5850	Pass
			10	120	5774.929	5725 to 5850	Pass
			30	120	5774.929	5725 to 5850	Pass
			40	120	5774.929	5725 to 5850	Pass
			50	120	5774.929	5725 to 5850	Pass