



Annex for 5G Wi-Fi BAND 3

Test Report No.: CTL2409192011-WF

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FCCID: 2BKN6-TXHE30W

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.165	/	Pass
		5785	1	17.162	/	Pass
		5825	1	17.106	/	Pass
802.11n (HT20)	SISO	5745	1	18.108	/	Pass
		5785	1	17.956	/	Pass
		5825	1	17.972	/	Pass

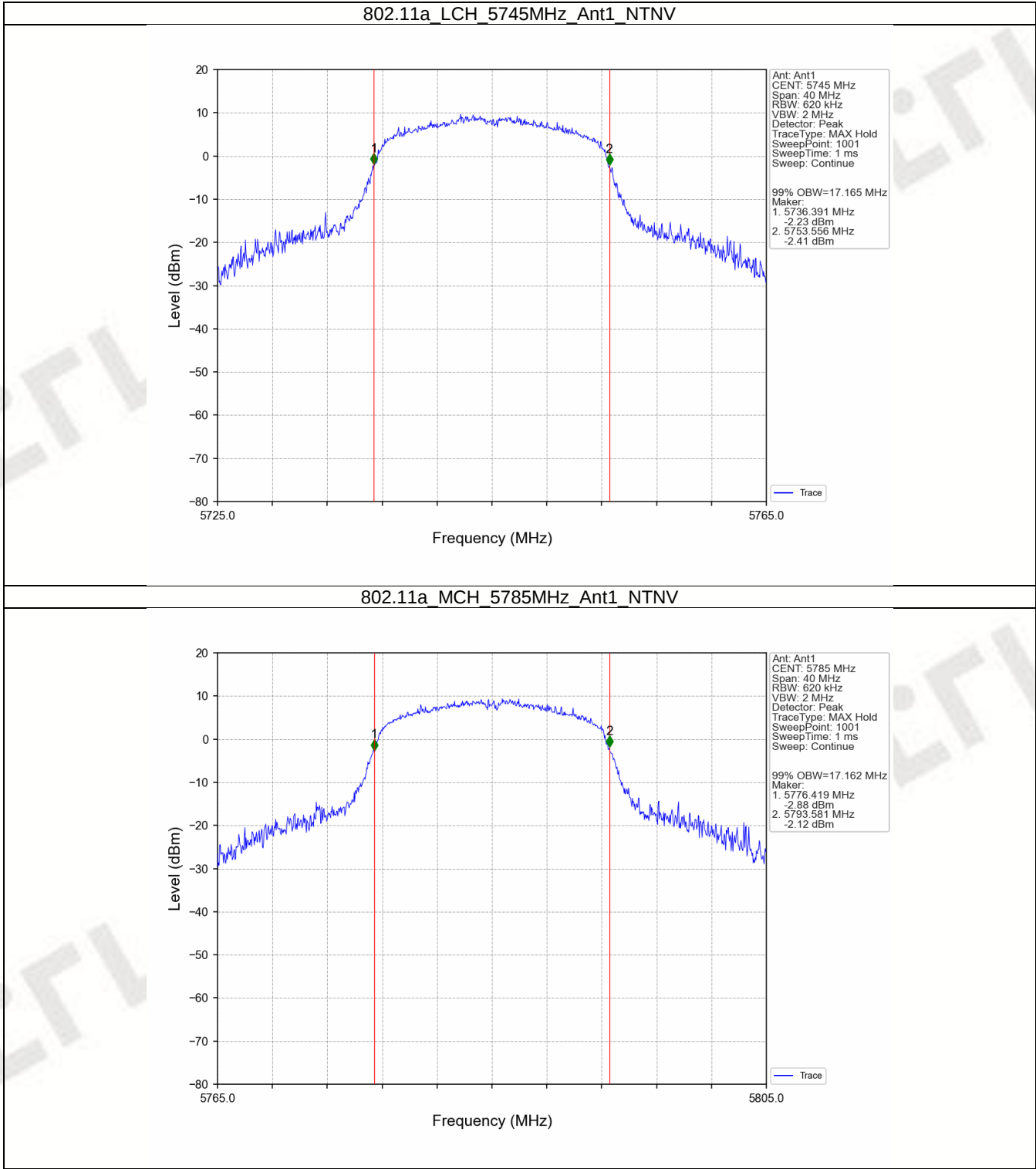
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.136	≥ 0.5	Pass
		5785	1	15.123	≥ 0.5	Pass
		5825	1	15.078	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.111	≥ 0.5	Pass
		5785	1	15.116	≥ 0.5	Pass
		5825	1	15.137	≥ 0.5	Pass

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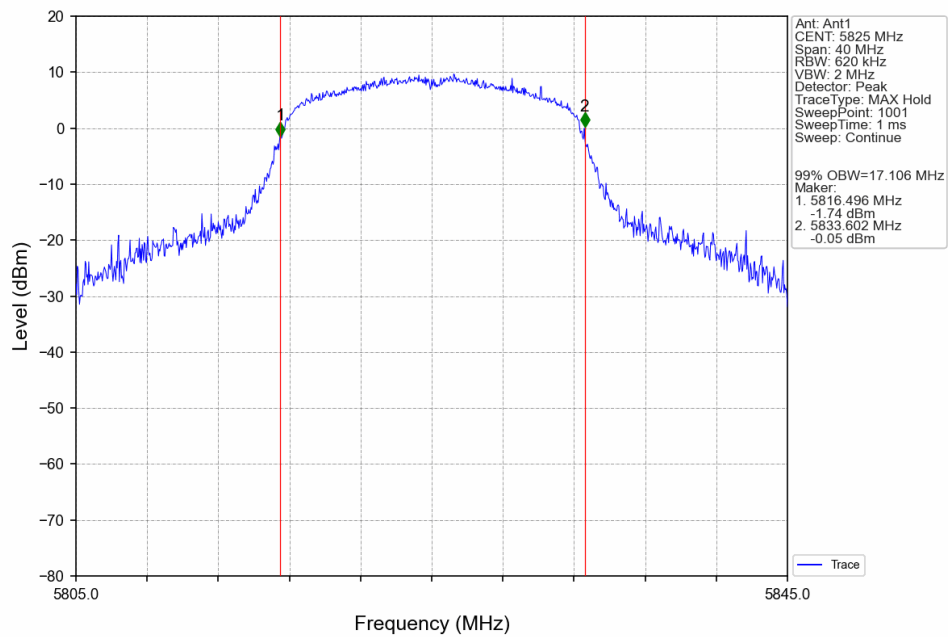
1.2 Test Graph

1.2.1 OBW

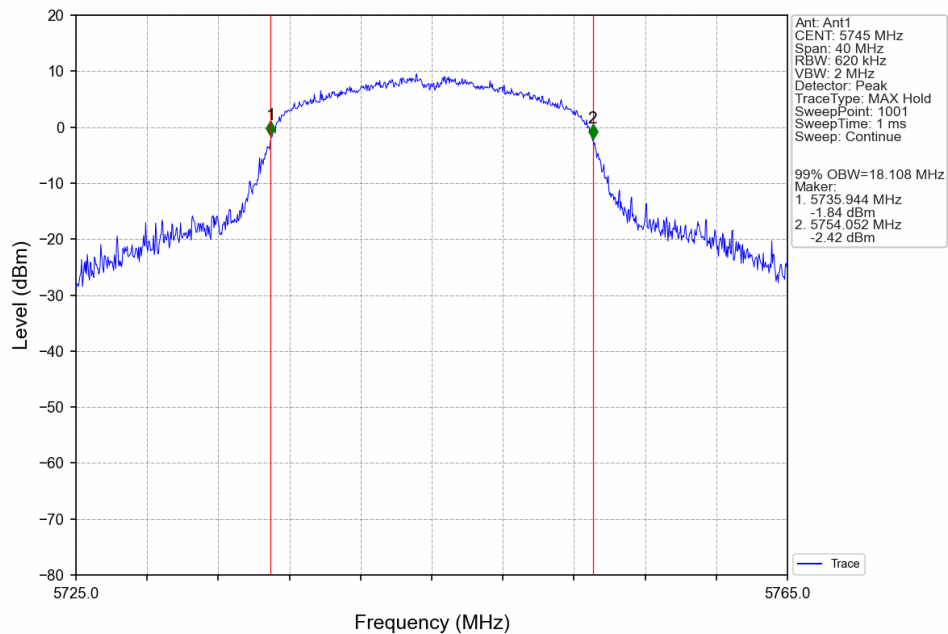


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802.11a_HCH_5825MHz_Ant1_NTNV

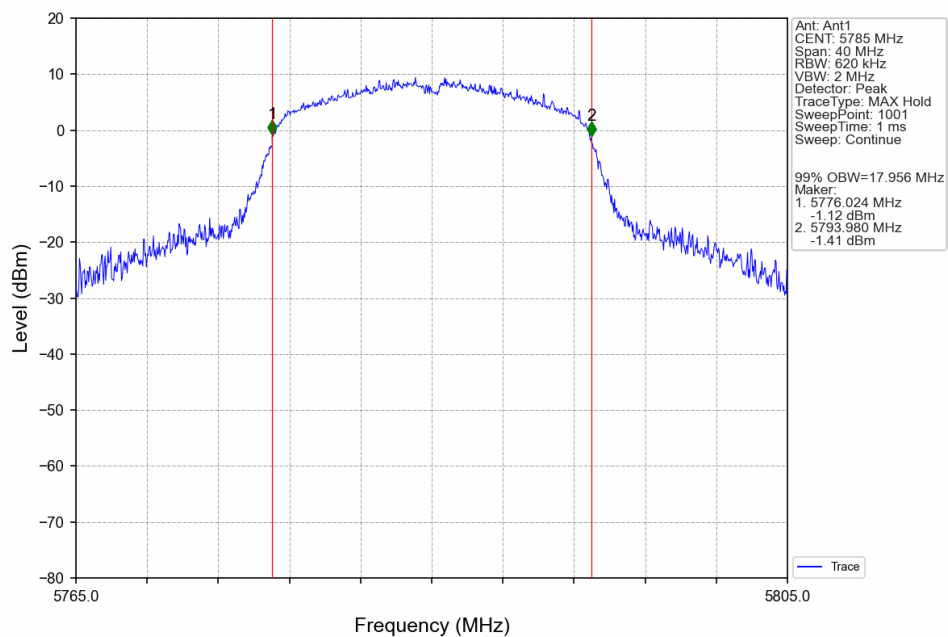


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

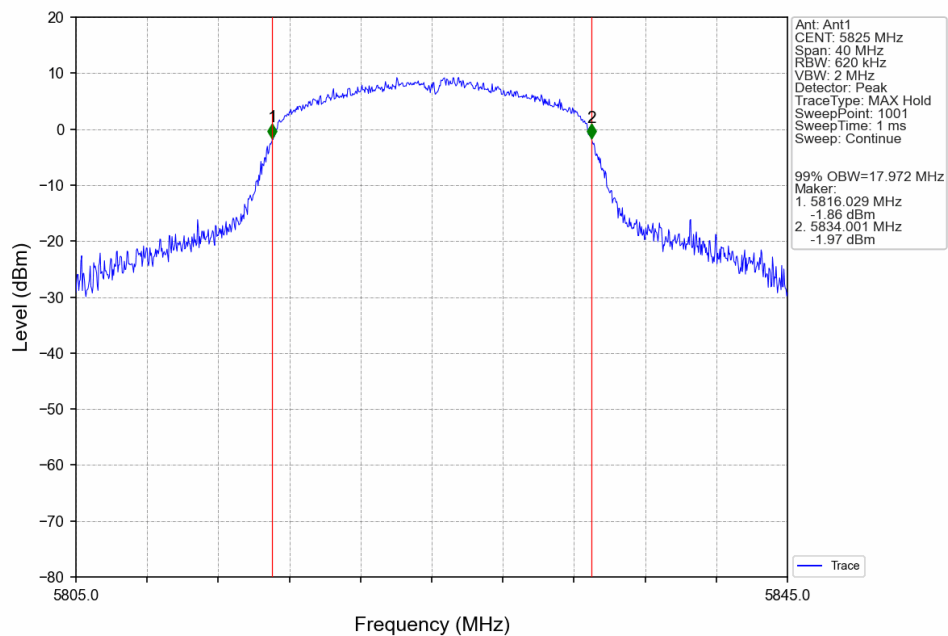


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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

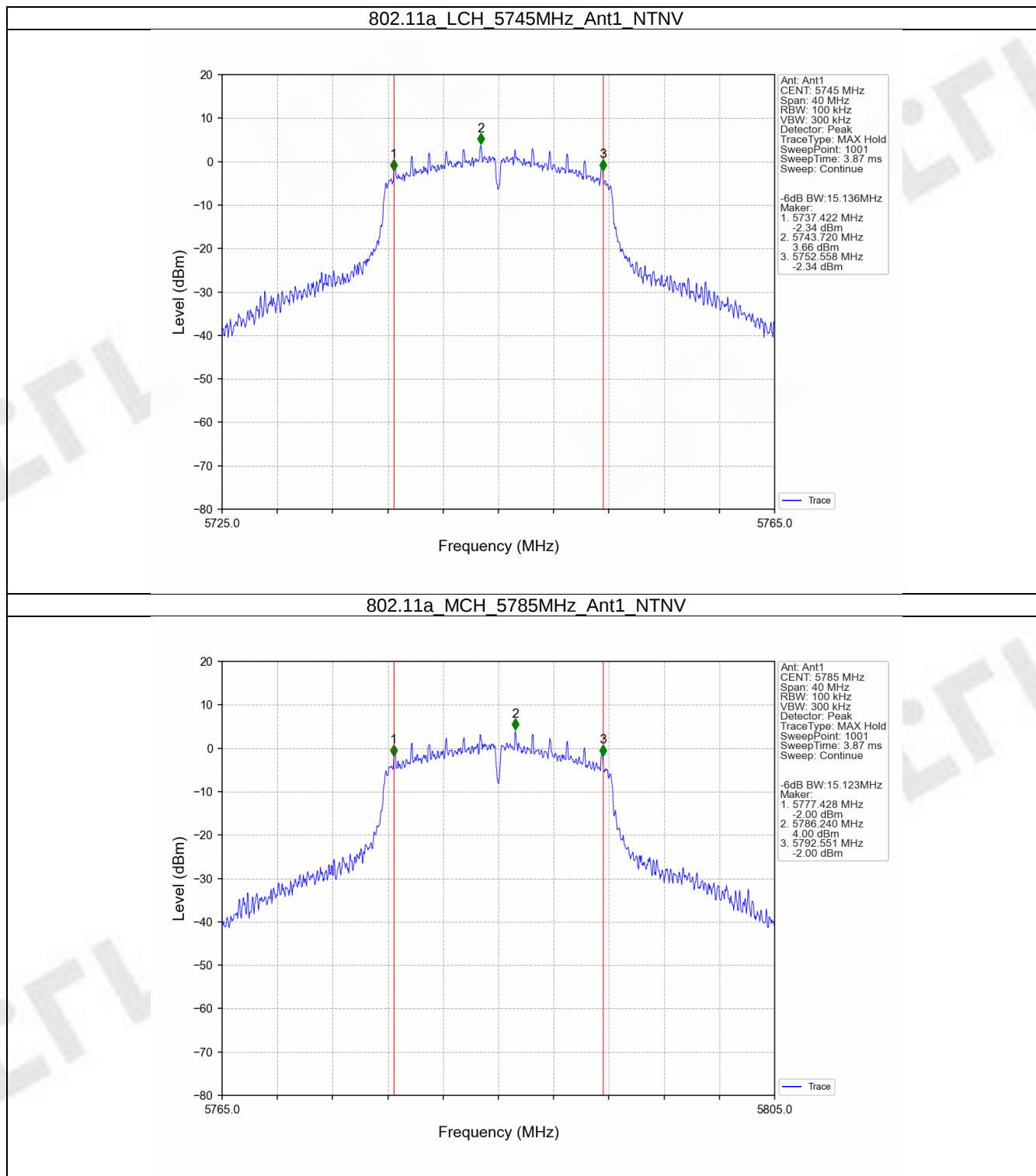


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



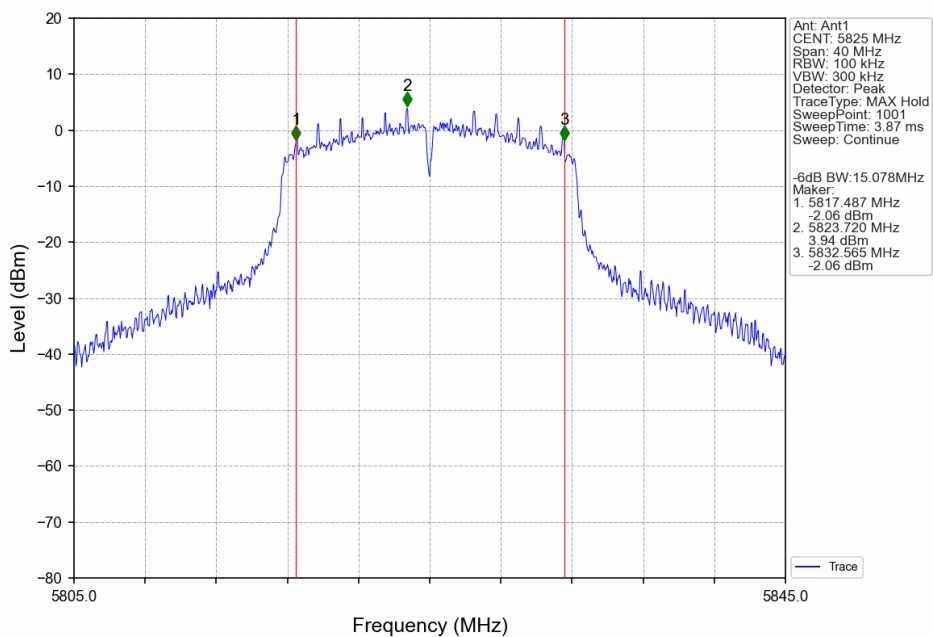
FCCID: 2BKN6-TXHE30W

1.2.2 6dB BW

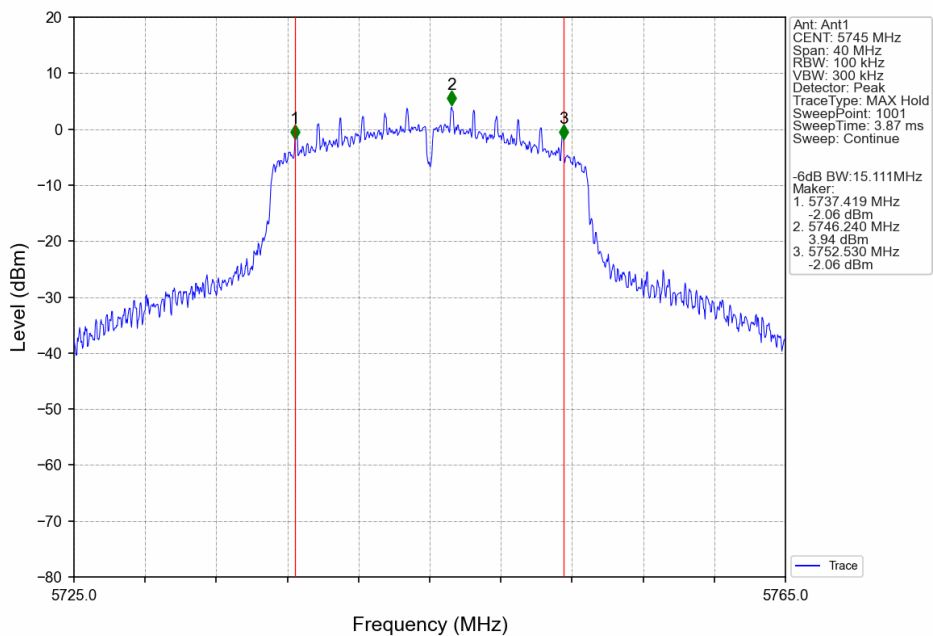


FCCID: 2BKN6-TXHE30W

802.11a_HCH_5825MHz_Ant1_NTNV

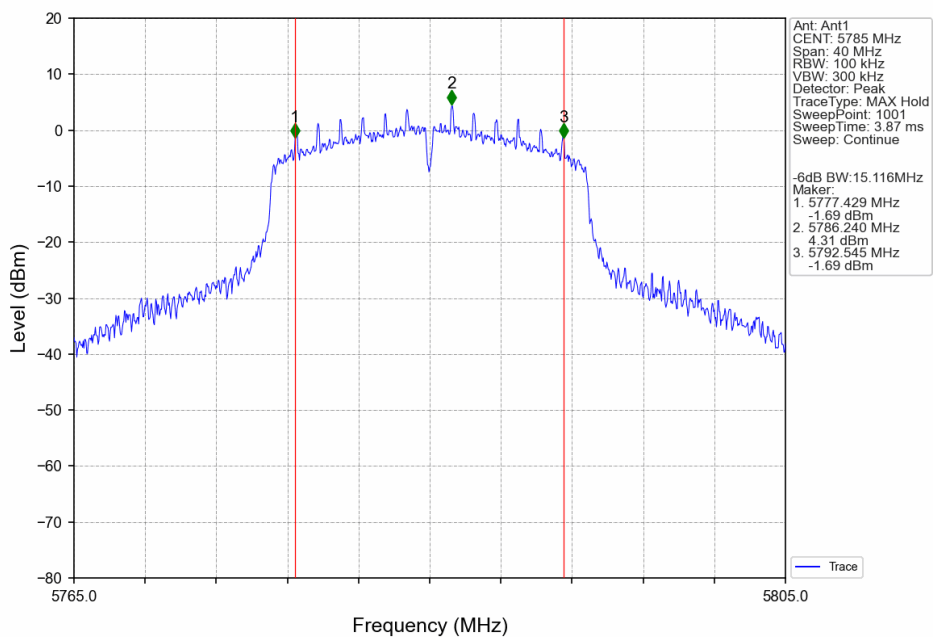


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

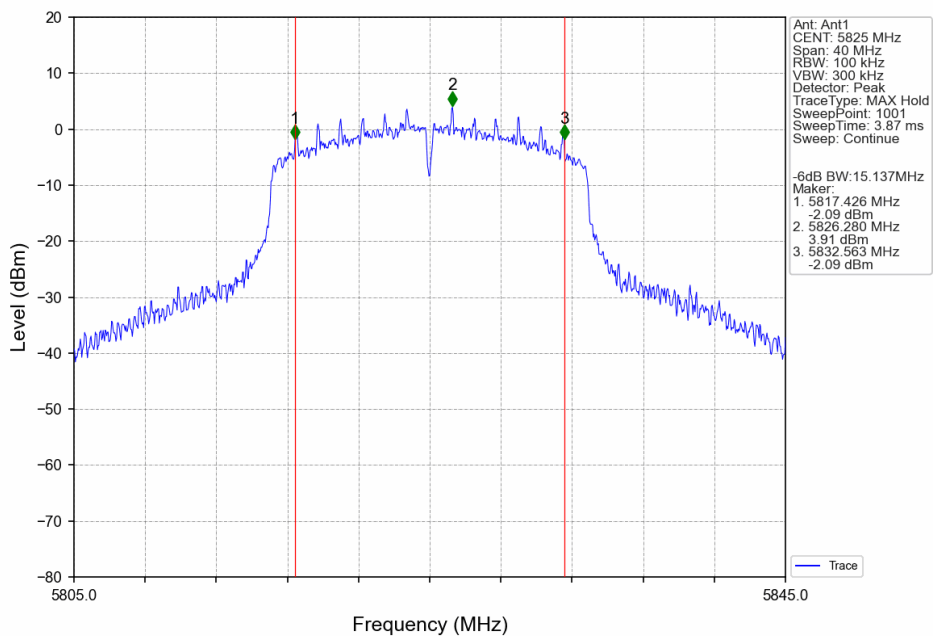


FCCID: 2BKN6-TXHE30W

802.11n(HT20) MCH 5785MHz_Ant1_NTNV



802.11n(HT20) HCH 5825MHz_Ant1_NTNV



FCCID: 2BKN6-TXHE30W

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

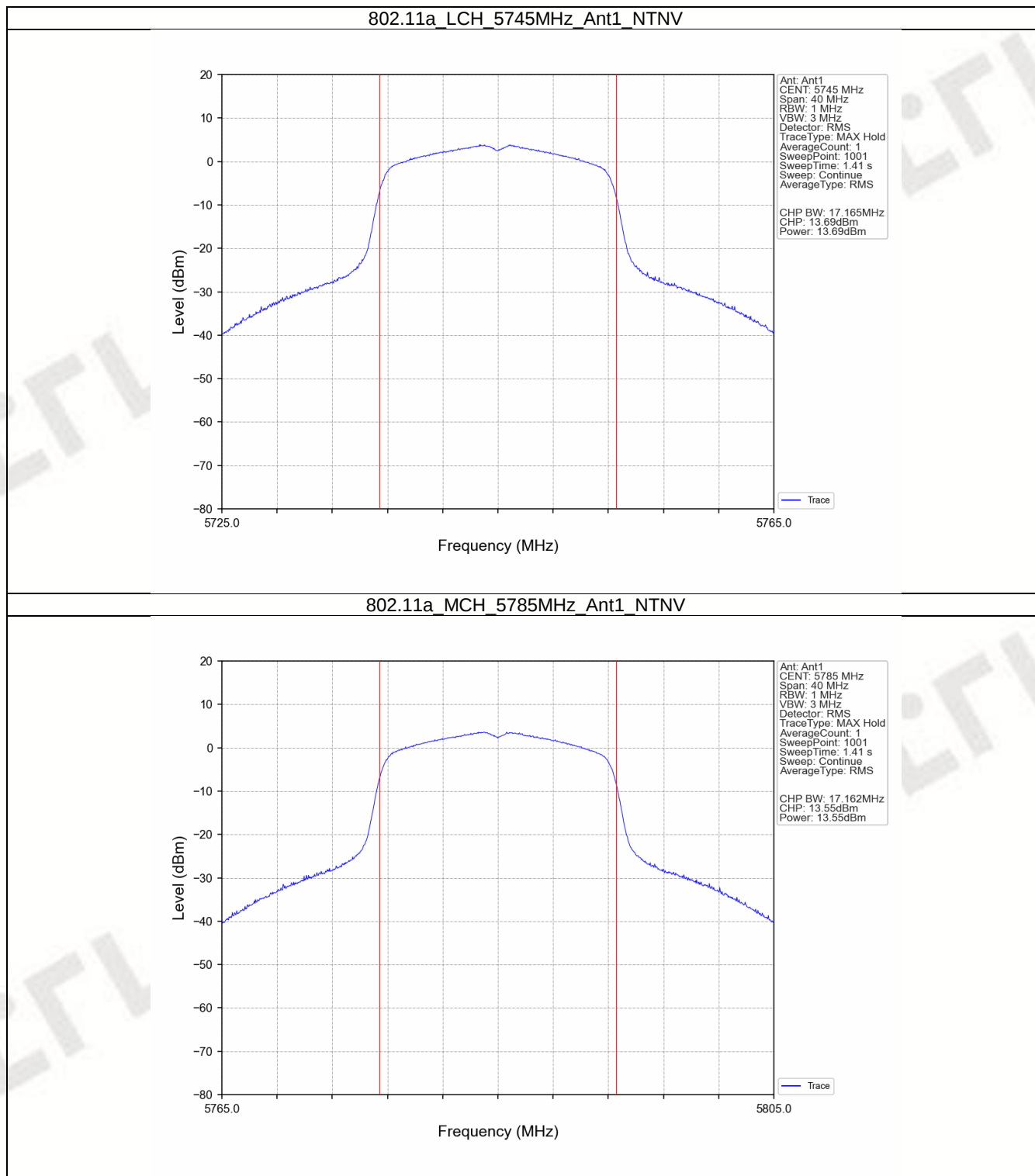
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	13.69	<=30	Pass
		5785	13.55	<=30	Pass
		5825	13.58	<=30	Pass
802.11n (HT20)	SISO	5745	13.56	<=30	Pass
		5785	13.47	<=30	Pass
		5825	13.22	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;

FCCID: 2BKN6-TXHE30W

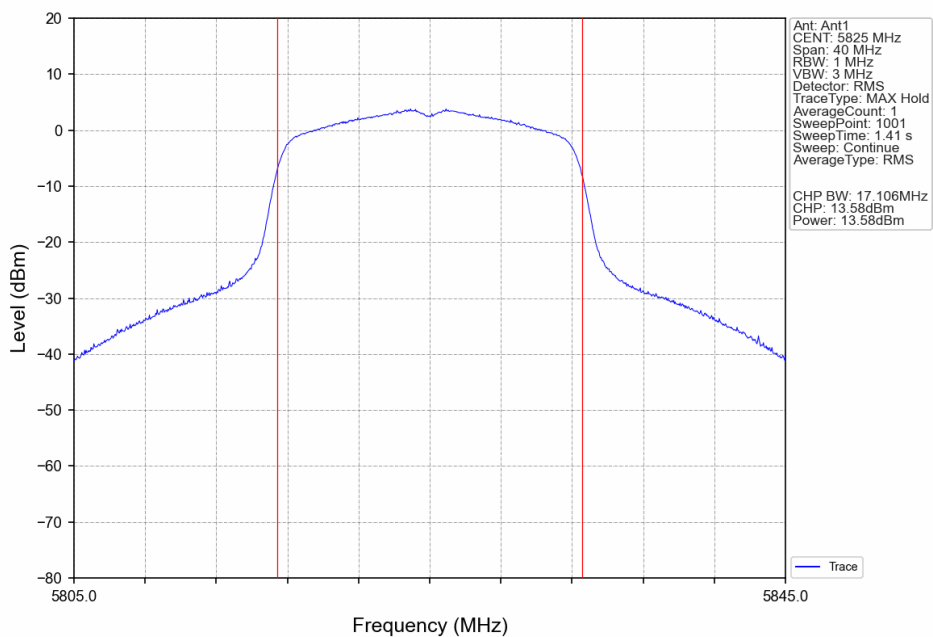
2.2 Test Graph

2.2.1 Power

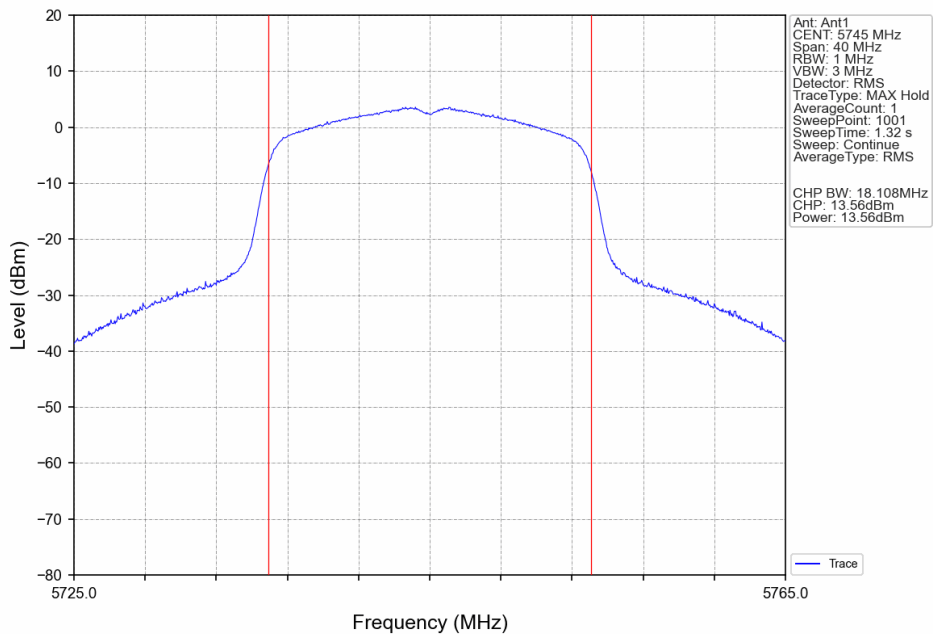


FCCID: 2BKN6-TXHE30W

802.11a_HCH_5825MHz_Ant1_NTNV

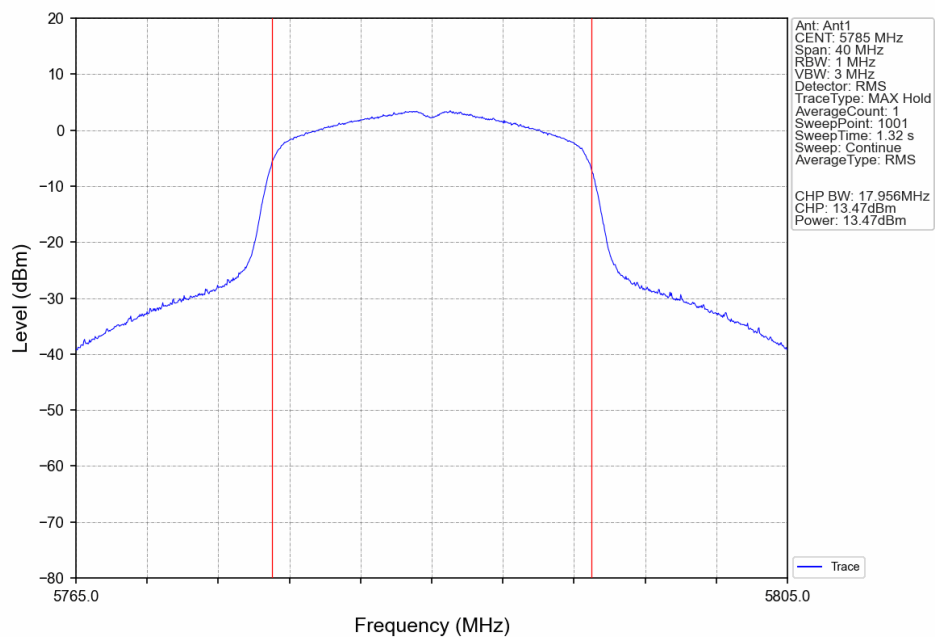


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

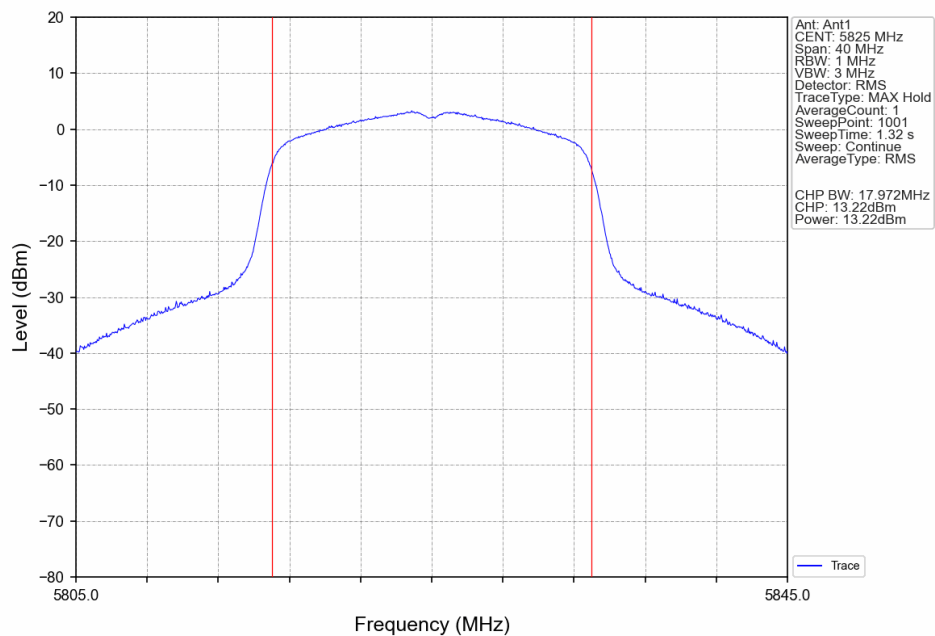


FCCID: 2BKN6-TXHE30W

802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



FCCID: 2BKN6-TXHE30W

3. Maximum Power Spectral Density

3.1 Test Result

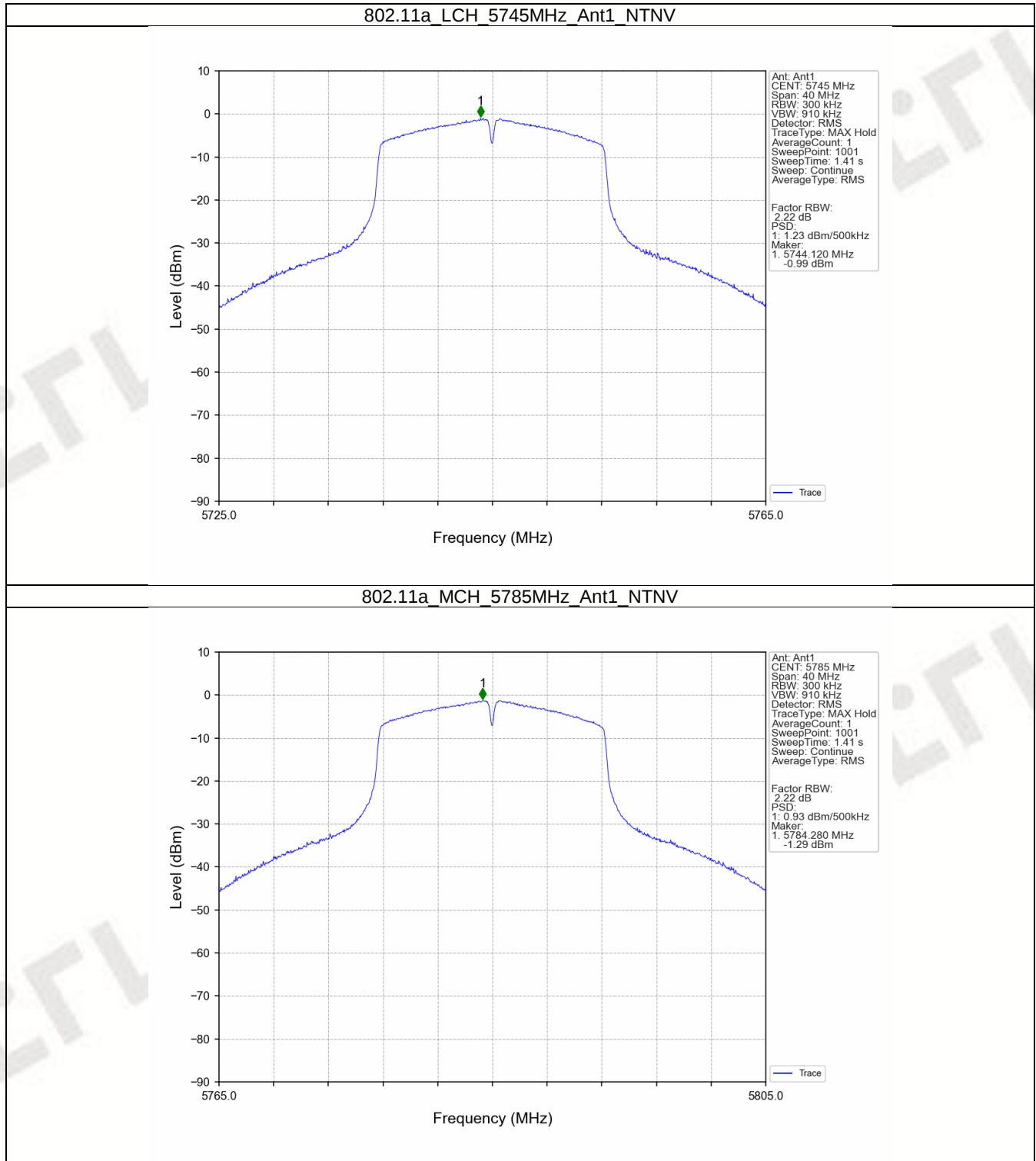
3.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	1.23	<=30	Pass
		5785	0.93	<=30	Pass
		5825	0.96	<=30	Pass
802.11n (HT20)	SISO	5745	0.89	<=30	Pass
		5785	0.92	<=30	Pass
		5825	0.64	<=30	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

FCCID: 2BKN6-TXHE30W

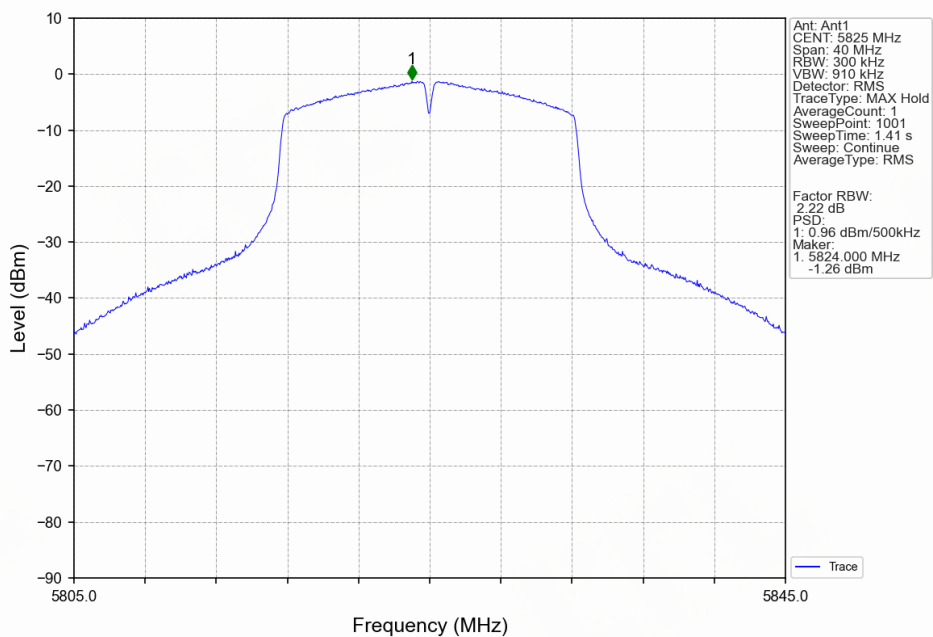
3.2 Test Graph

3.2.1 PSD-Band3

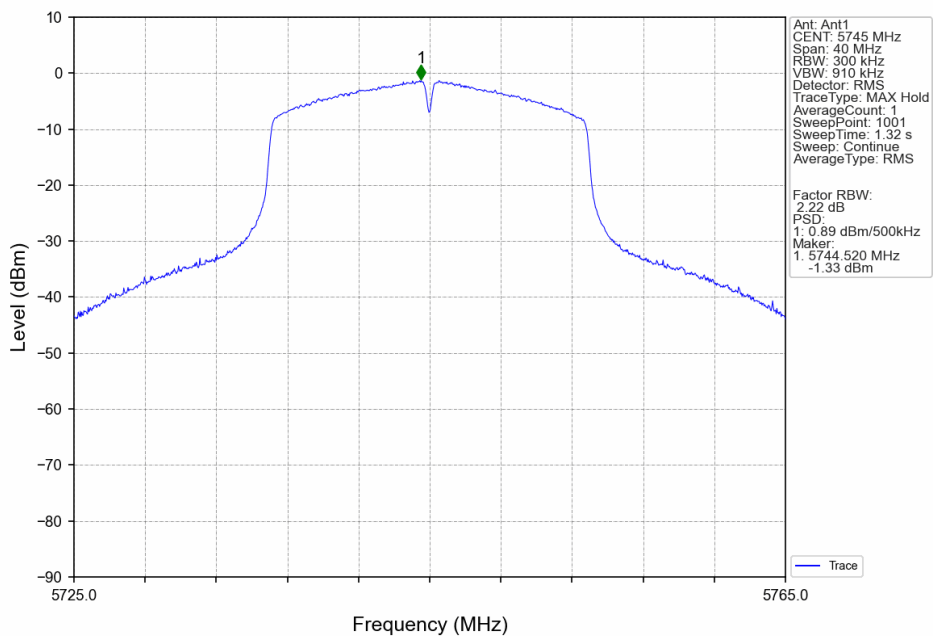


FCCID: 2BKN6-TXHE30W

802.11a_HCH_5825MHz_Ant1_NTNV

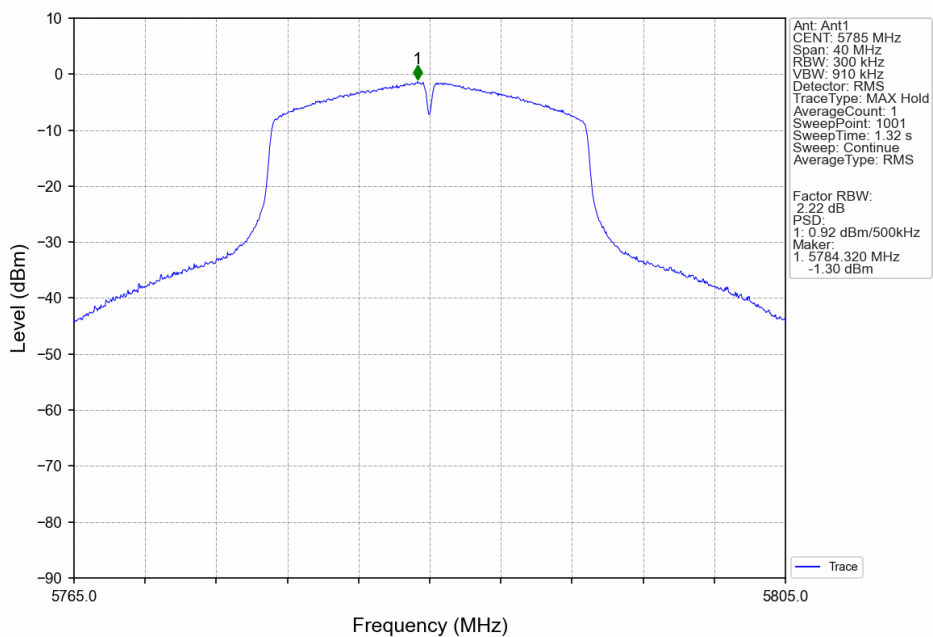


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

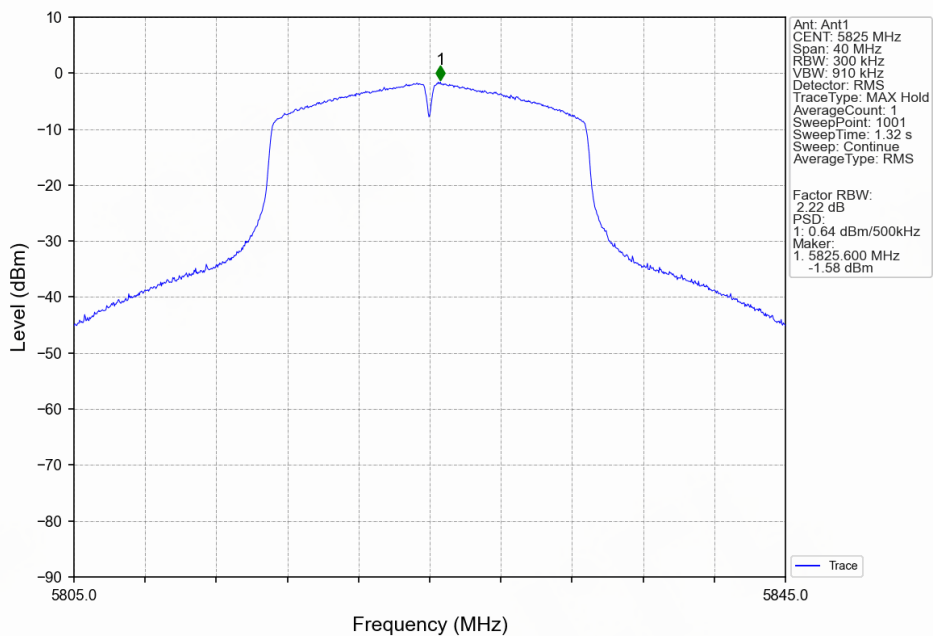


FCCID: 2BKN6-TXHE30W

802.11n(HT20) MCH 5785MHz_Ant1_NTNV



802.11n(HT20) HCH 5825MHz_Ant1_NTNV



FCCID: 2BKN6-TXHE30W

4. Frequency Stability

4.1 Test Result

4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5745	20	102	5744.978	5725 to 5850	Pass
				120	5744.979	5725 to 5850	Pass
				138	5744.979	5725 to 5850	Pass
			-30	120	5744.979	5725 to 5850	Pass
			-20	120	5744.979	5725 to 5850	Pass
			-10	120	5744.979	5725 to 5850	Pass
			0	120	5744.979	5725 to 5850	Pass
			10	120	5744.979	5725 to 5850	Pass
			30	120	5744.979	5725 to 5850	Pass
			40	120	5744.979	5725 to 5850	Pass
			50	120	5744.979	5725 to 5850	Pass
		5785	20	102	5784.978	5725 to 5850	Pass
				120	5784.978	5725 to 5850	Pass
				138	5784.978	5725 to 5850	Pass
			-30	120	5784.979	5725 to 5850	Pass
			-20	120	5784.979	5725 to 5850	Pass
			-10	120	5784.979	5725 to 5850	Pass
			0	120	5784.979	5725 to 5850	Pass
			10	120	5784.979	5725 to 5850	Pass
			30	120	5784.979	5725 to 5850	Pass
			40	120	5784.979	5725 to 5850	Pass
			50	120	5784.979	5725 to 5850	Pass
		5825	20	102	5824.978	5725 to 5850	Pass
				120	5824.978	5725 to 5850	Pass
				138	5824.979	5725 to 5850	Pass
			-30	120	5824.979	5725 to 5850	Pass
			-20	120	5824.979	5725 to 5850	Pass
			-10	120	5824.979	5725 to 5850	Pass
			0	120	5824.979	5725 to 5850	Pass
			10	120	5824.979	5725 to 5850	Pass
			30	120	5824.979	5725 to 5850	Pass
			40	120	5824.979	5725 to 5850	Pass
			50	120	5824.979	5725 to 5850	Pass

FCCID: 2BKN6-TXHE30W

5. Form731

5.1 Test Result

5.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5745	5825	0.0234	13.69