

Appendix Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: Wireless Display Adapter

Trade Mark: N/A

Test Model: HB716-RX (208420)

FCC ID: 2BKCK-HB716RX208420

Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	54%
ATM Pressure:	100.0 kPa
Test Engineer:	Tony luo
Supervised by:	Max zhang
NOTE	N/A

1. Duty Cycle

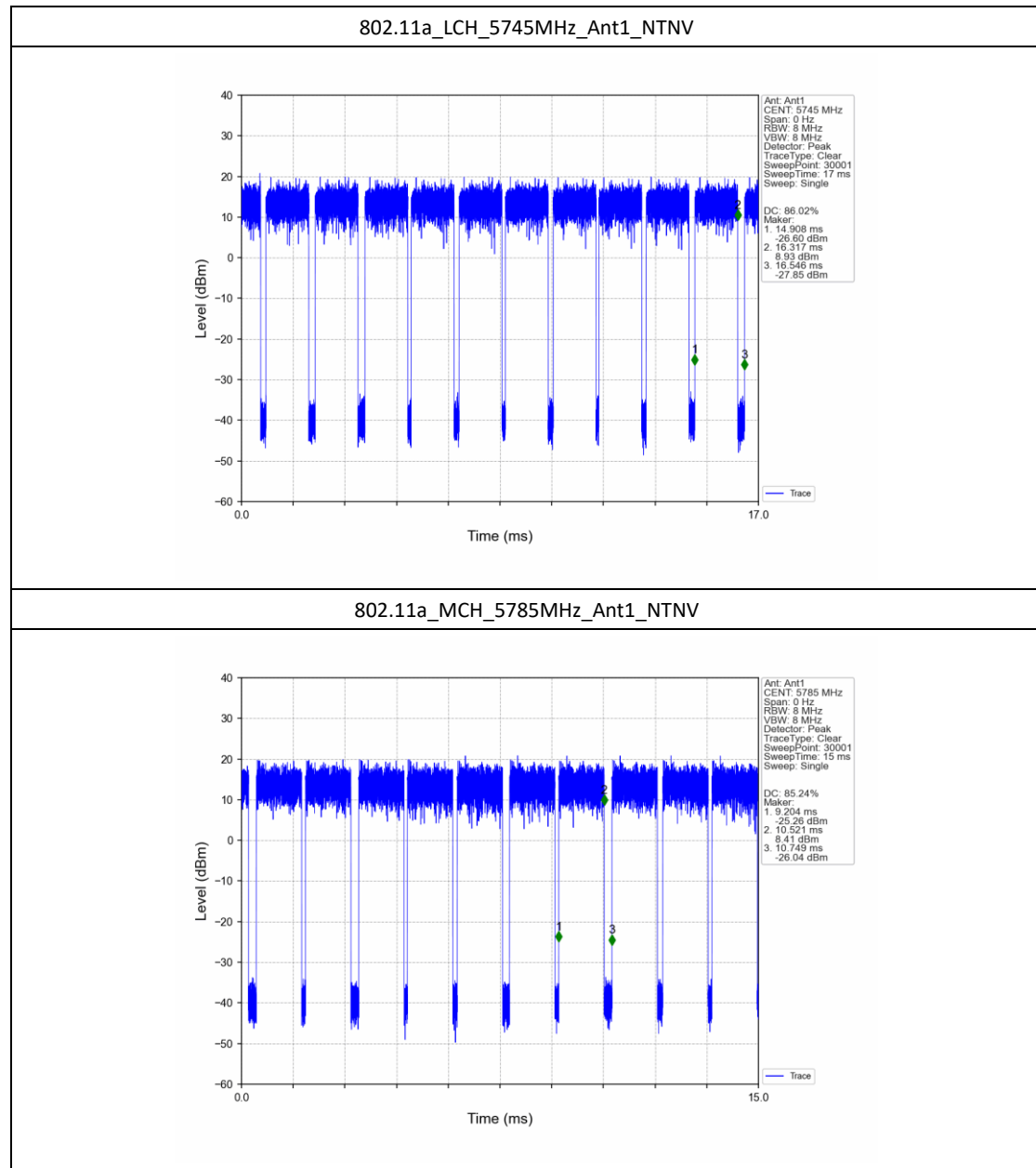
1.1 Test Result

1.1.1 Ant1

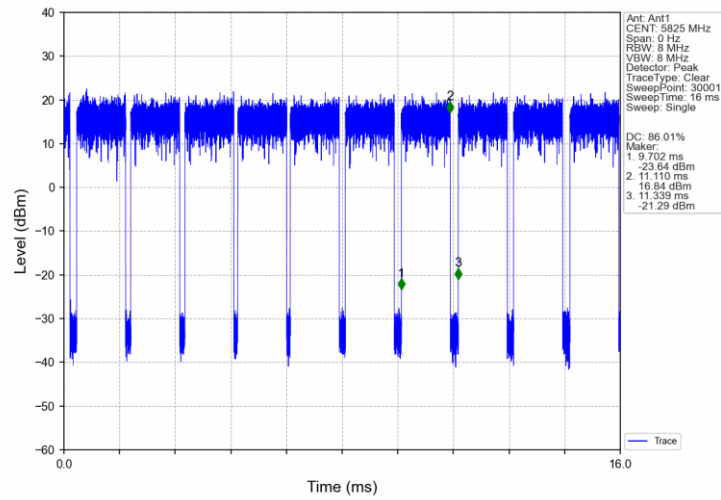
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	1.409	1.638	86.02	0.65	7.73
		5785	1.317	1.545	85.24	0.69	8.16
		5825	1.408	1.637	86.01	0.65	7.17
802.11n (HT20)	SISO	5745	1.318	1.527	86.31	0.64	5.96
		5785	1.317	1.536	85.74	0.67	7.06
		5825	1.317	1.536	85.74	0.67	7.66
802.11n (HT40)	SISO	5755	0.653	0.872	74.89	1.26	6.74
		5795	0.653	0.863	75.67	1.21	11.87

1.2 Test Graph

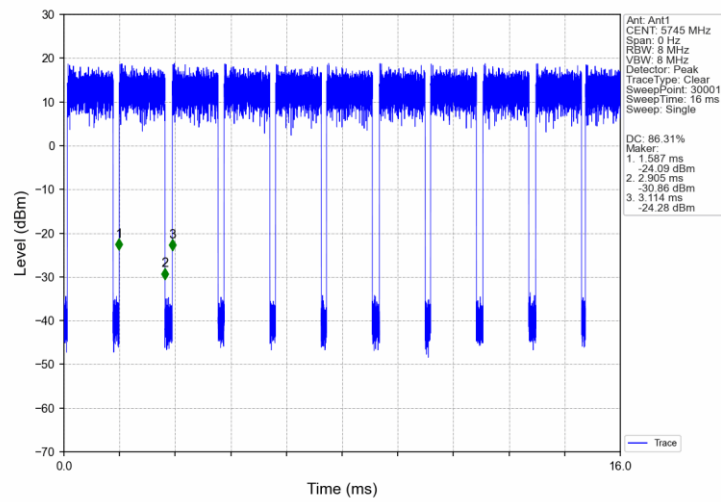
1.2.1 Ant1



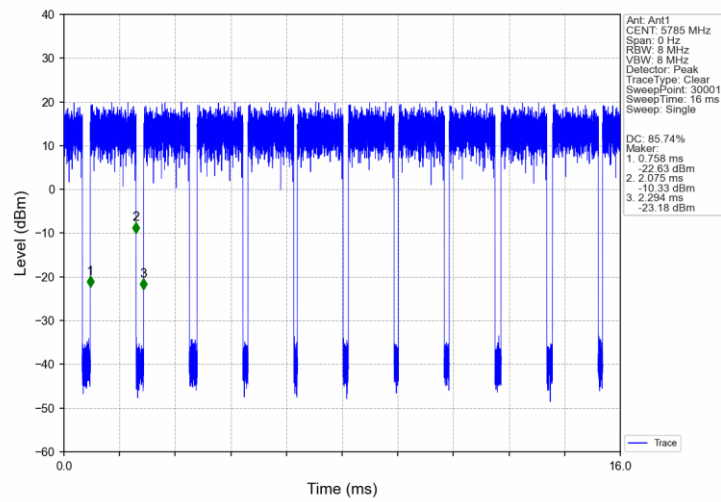
802.11a_HCH_5825MHz_Ant1_NTNV



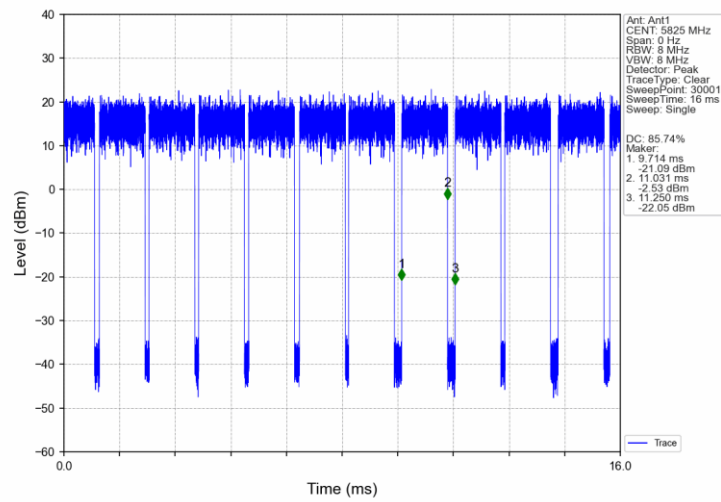
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



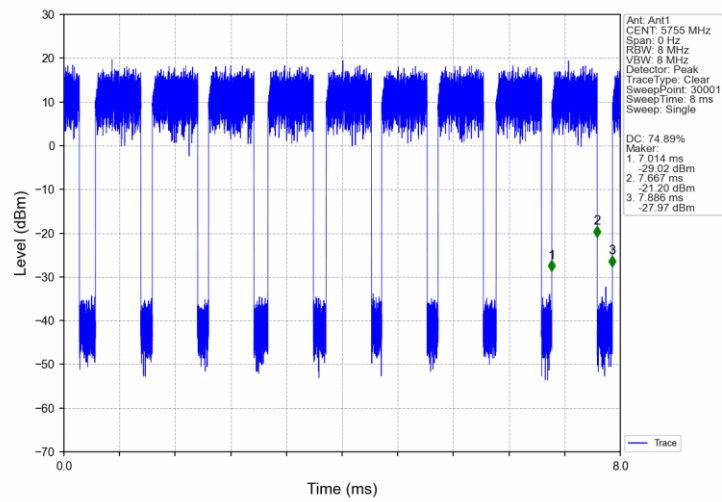
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



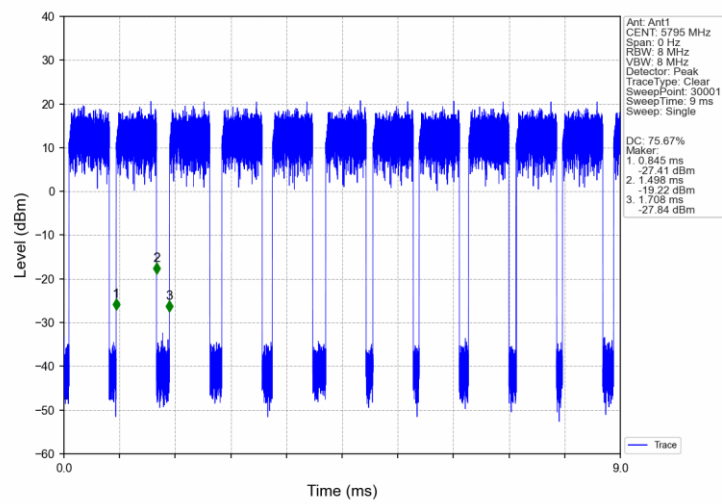
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

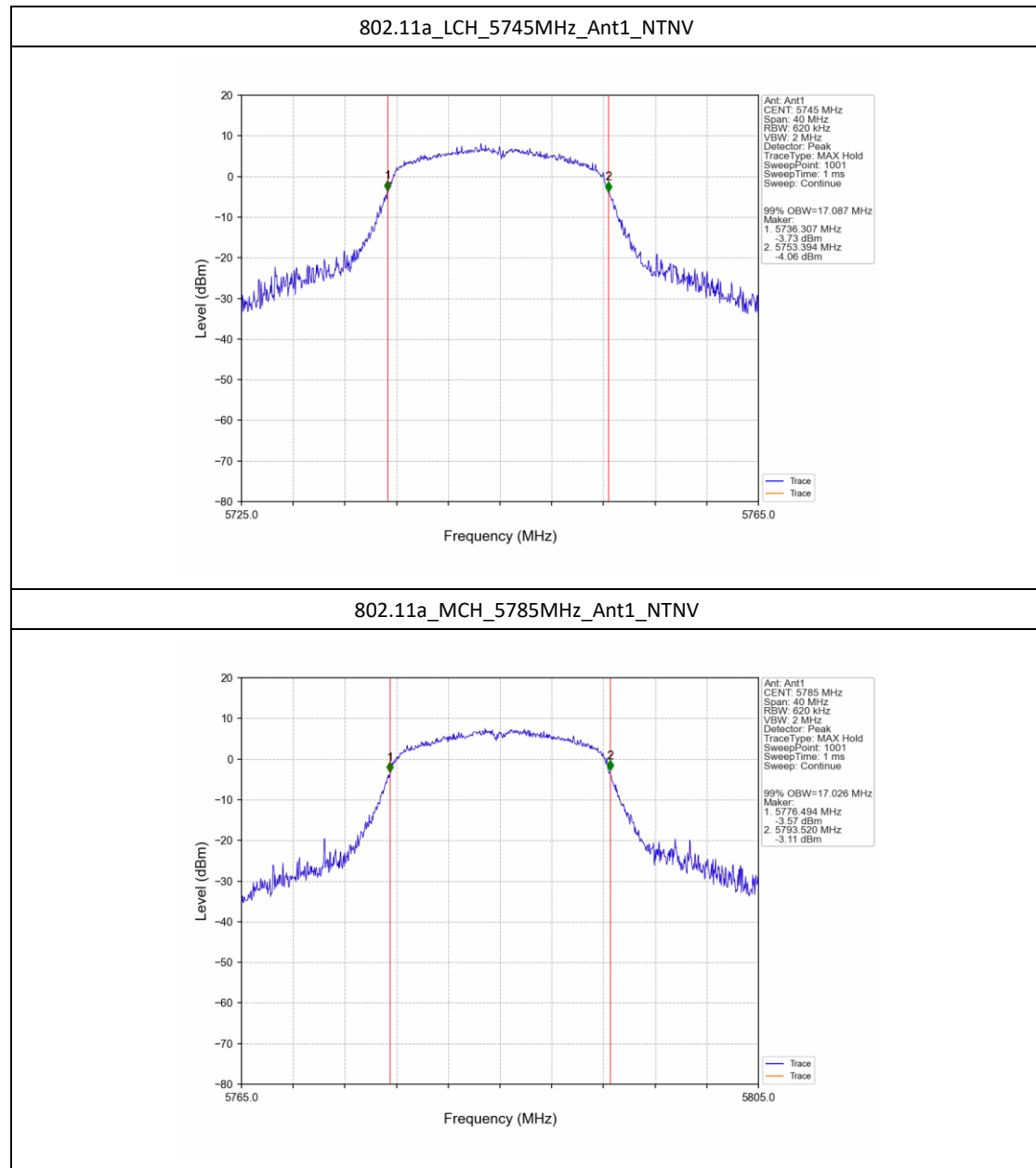
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.087	/	Pass
		5785	1	17.026	/	Pass
		5825	1	16.935	/	Pass
802.11n (HT20)	SISO	5745	1	18.009	/	Pass
		5785	1	17.951	/	Pass
		5825	1	17.862	/	Pass
802.11n (HT40)	SISO	5755	1	35.930	/	Pass
		5795	1	35.497	/	Pass

2.1.2 6dB BW

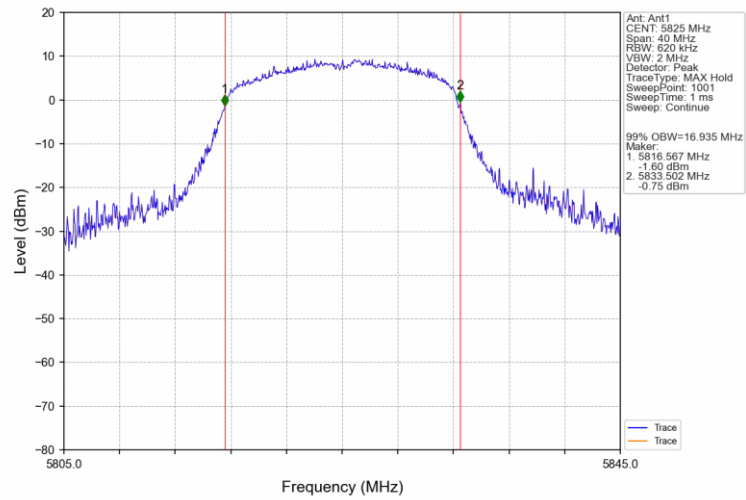
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.118	≥ 0.5	Pass
		5785	1	15.110	≥ 0.5	Pass
		5825	1	15.111	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.136	≥ 0.5	Pass
		5785	1	15.082	≥ 0.5	Pass
		5825	1	15.083	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	32.571	≥ 0.5	Pass
		5795	1	30.066	≥ 0.5	Pass

2.2 Test Graph

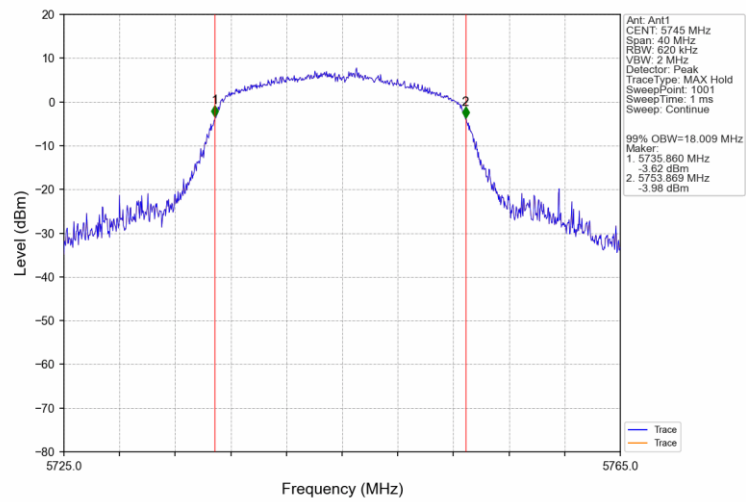
2.2.1 OBW



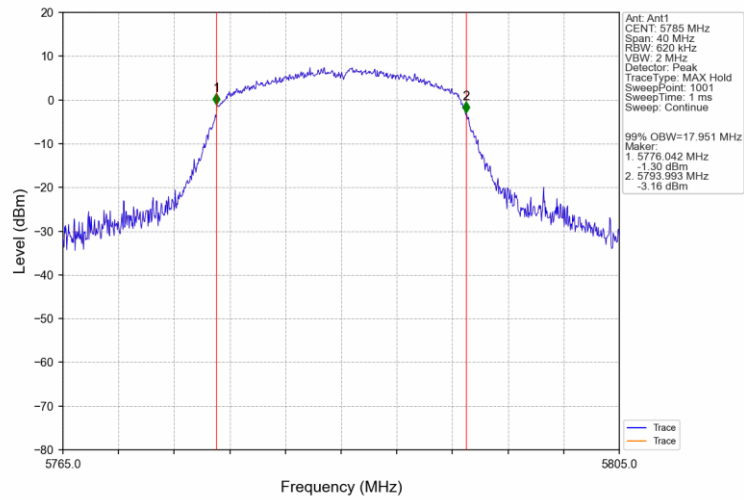
802.11a_HCH_5825MHz_Ant1_NTNV



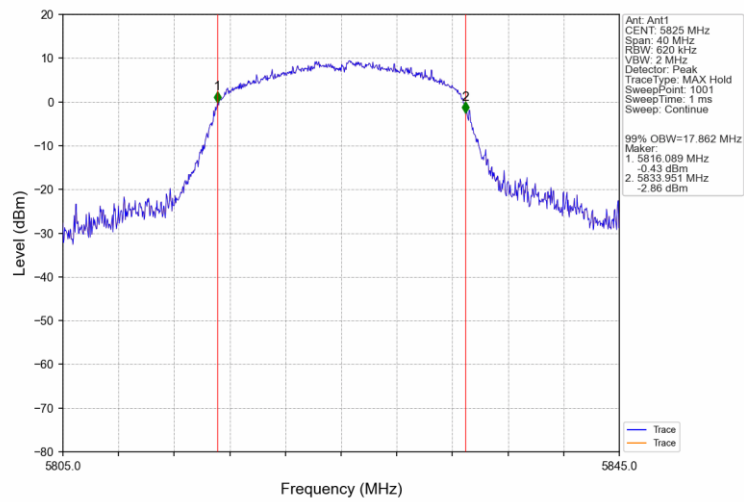
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



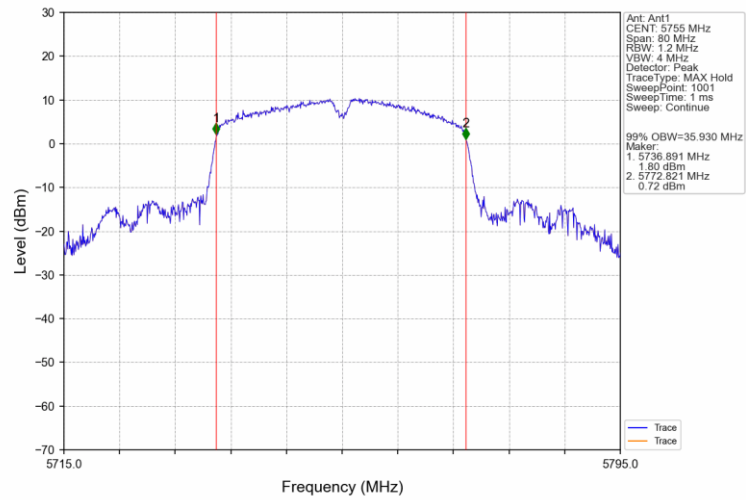
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



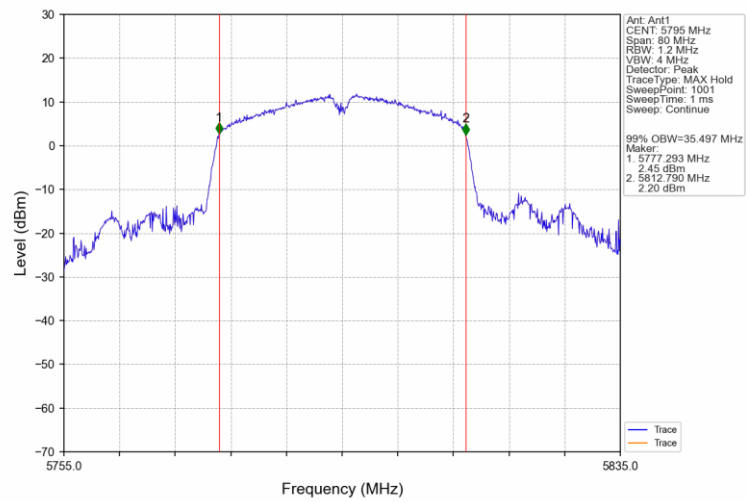
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



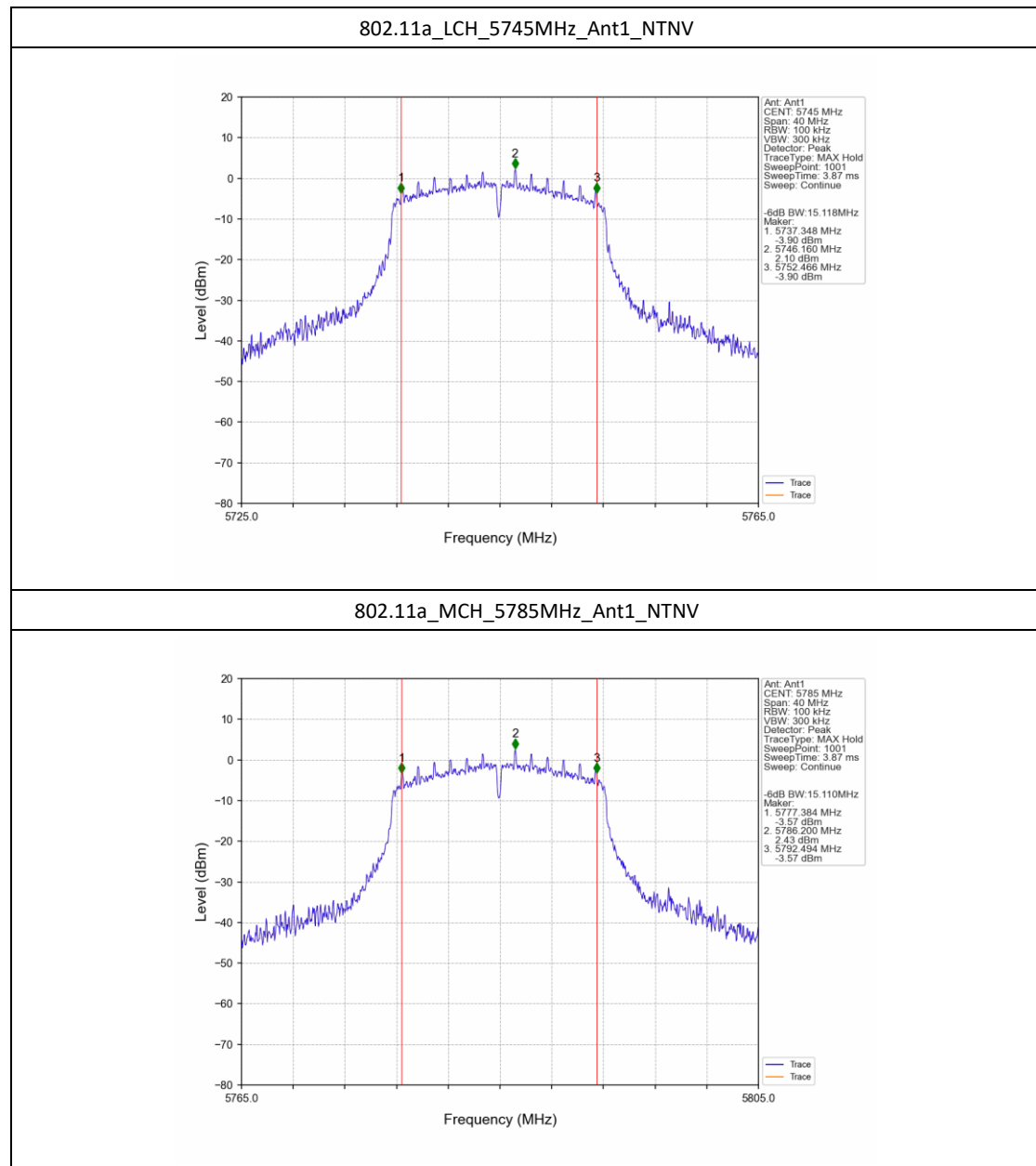
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



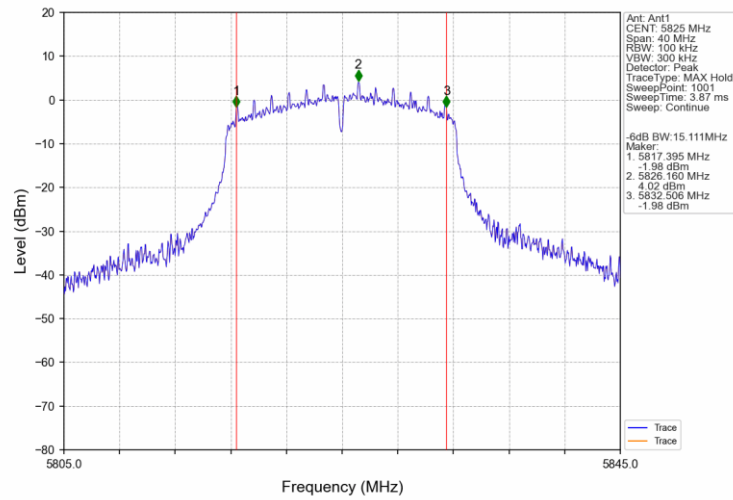
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



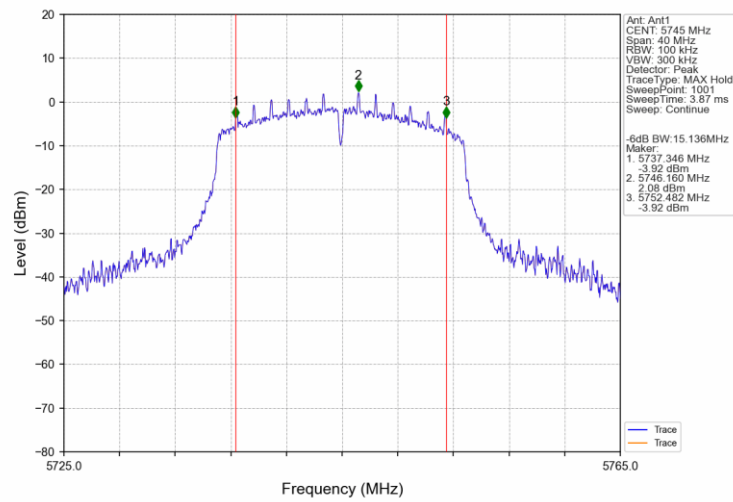
2.2.2 6dB BW



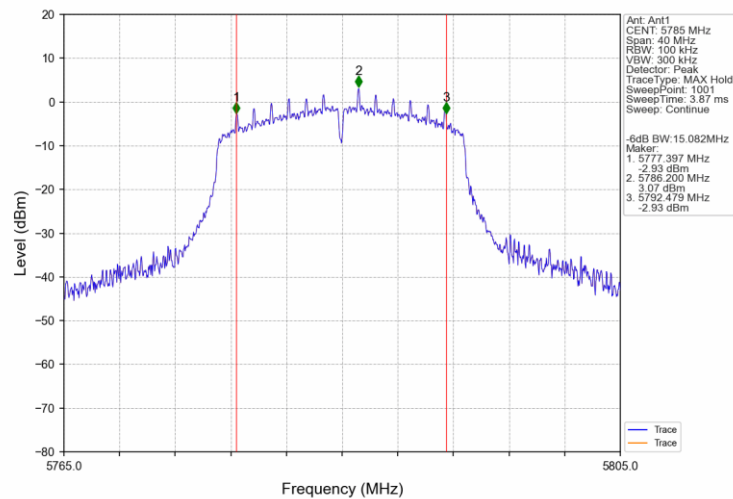
802.11a_HCH_5825MHz_Ant1_NTNV



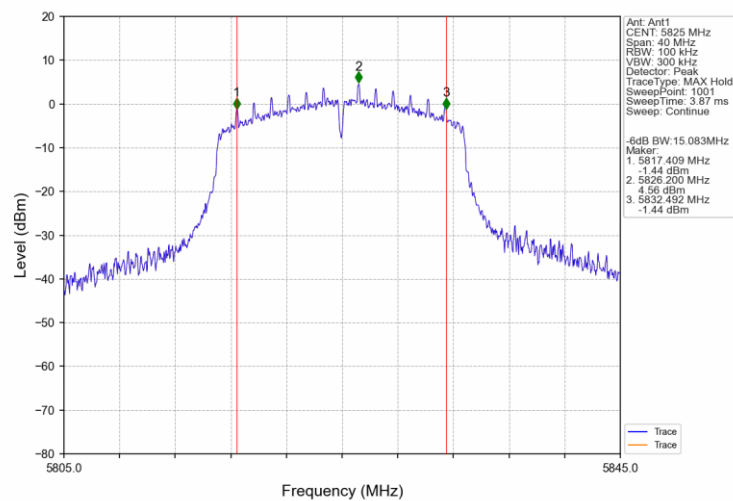
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



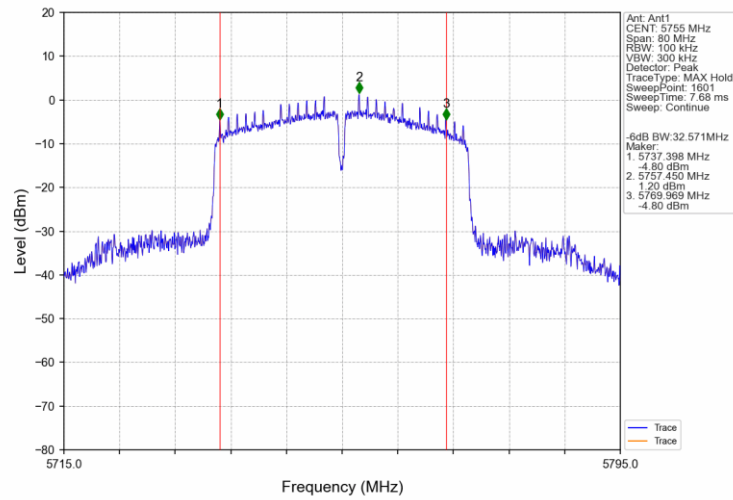
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



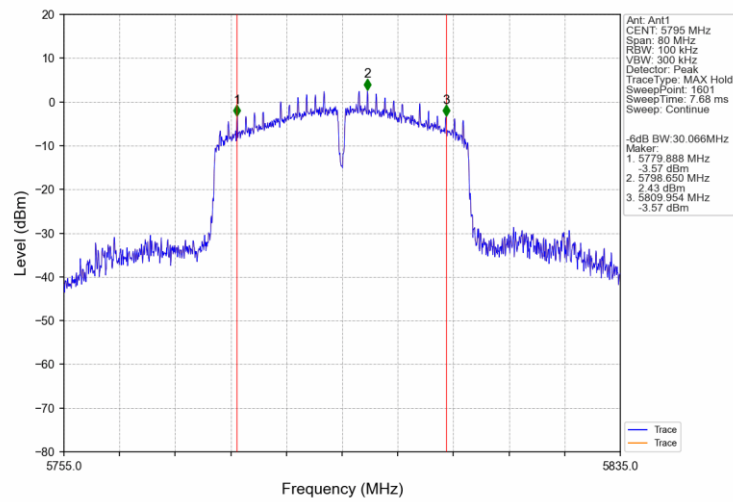
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



3. Maximum Conducted Output Power

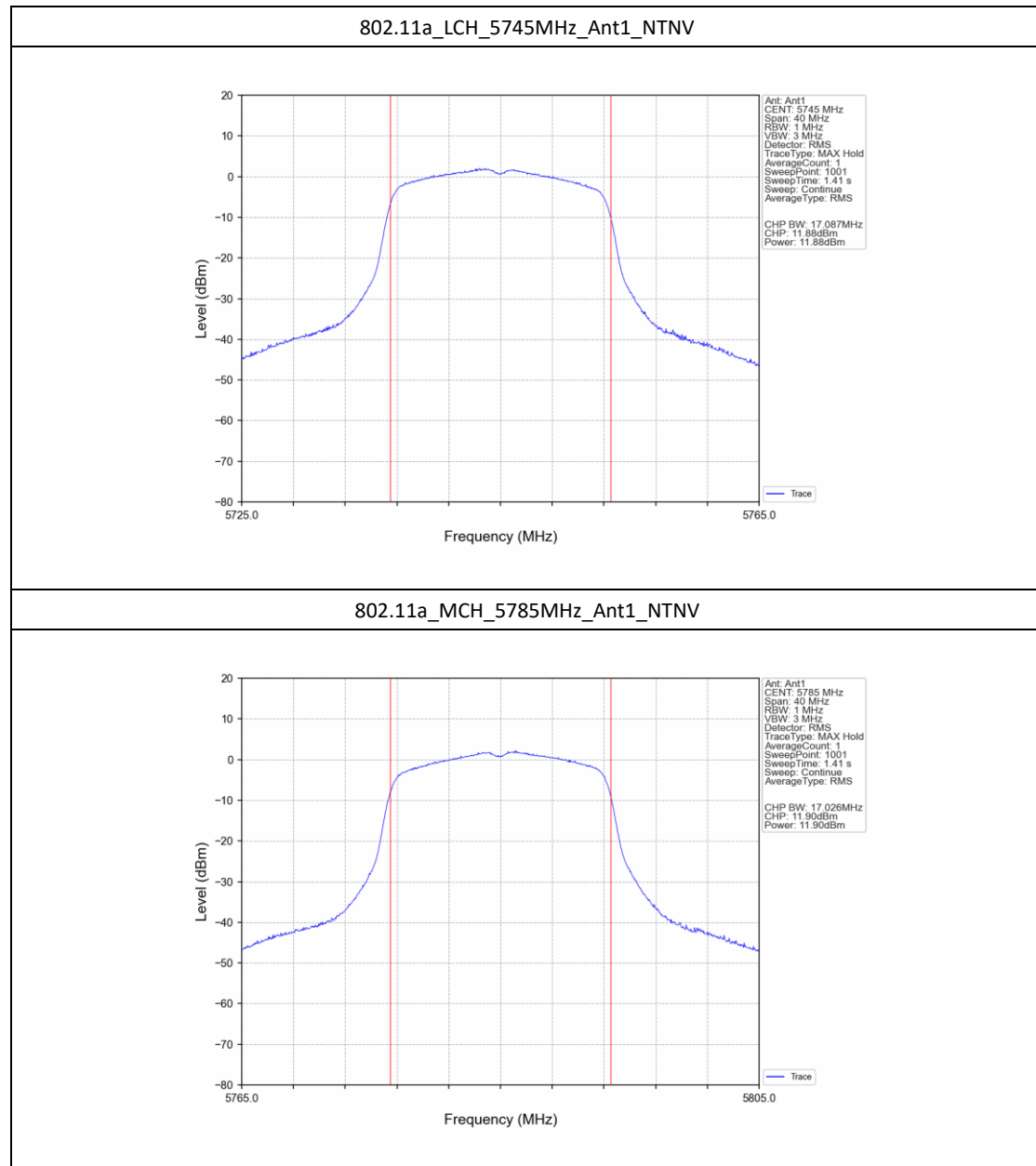
3.1 Test Result

3.1.1 Power

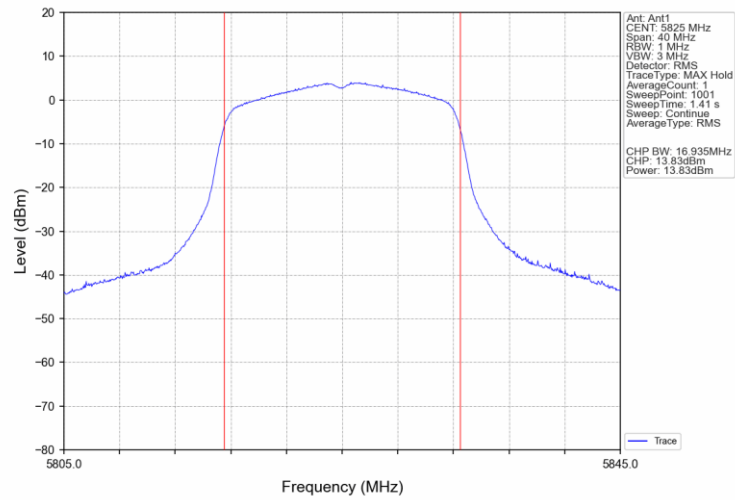
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	11.88	<=30	Pass
		5785	11.90	<=30	Pass
		5825	13.83	<=30	Pass
802.11n (HT20)	SISO	5745	11.42	<=30	Pass
		5785	11.84	<=30	Pass
		5825	13.90	<=30	Pass
802.11n (HT40)	SISO	5755	13.44	<=30	Pass
		5795	13.21	<=30	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

3.2 Test Graph

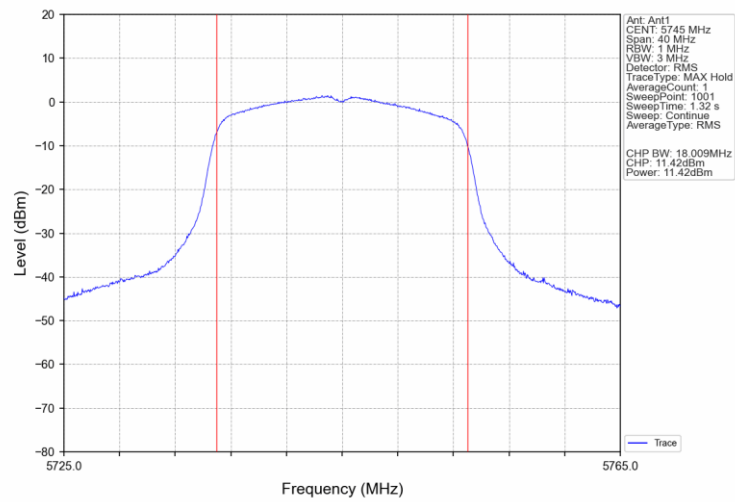
3.2.1 Power



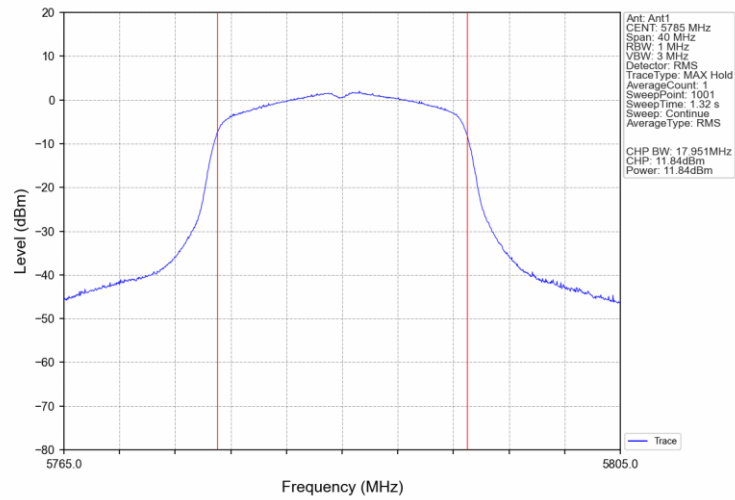
802.11a_HCH_5825MHz_Ant1_NTNV



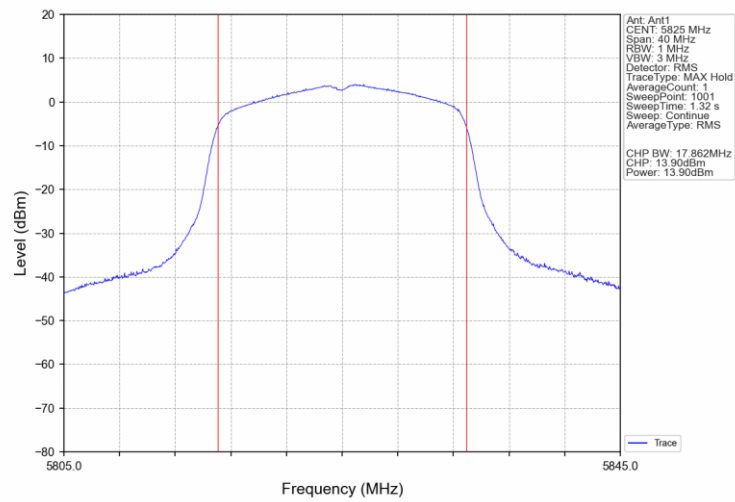
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



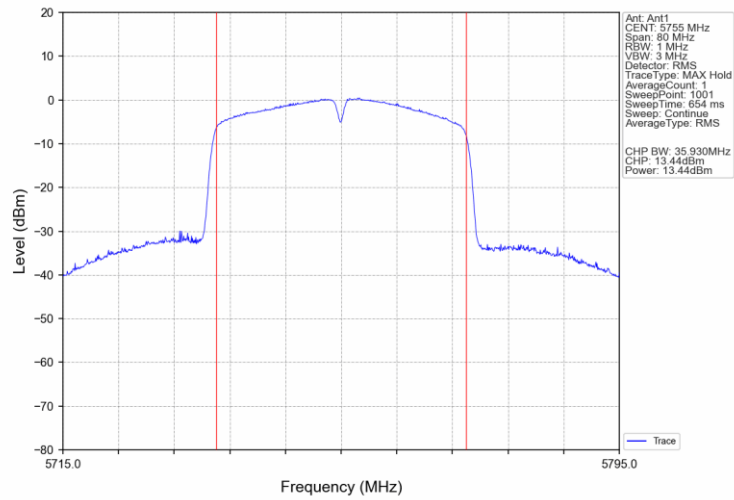
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



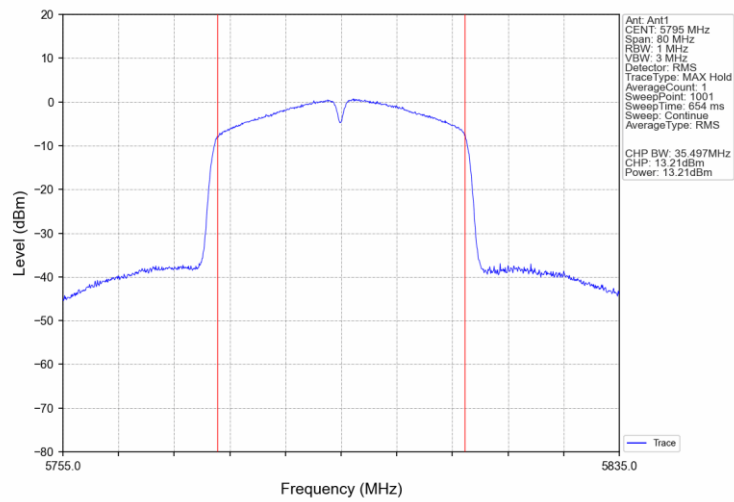
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



4. Maximum Power Spectral Density

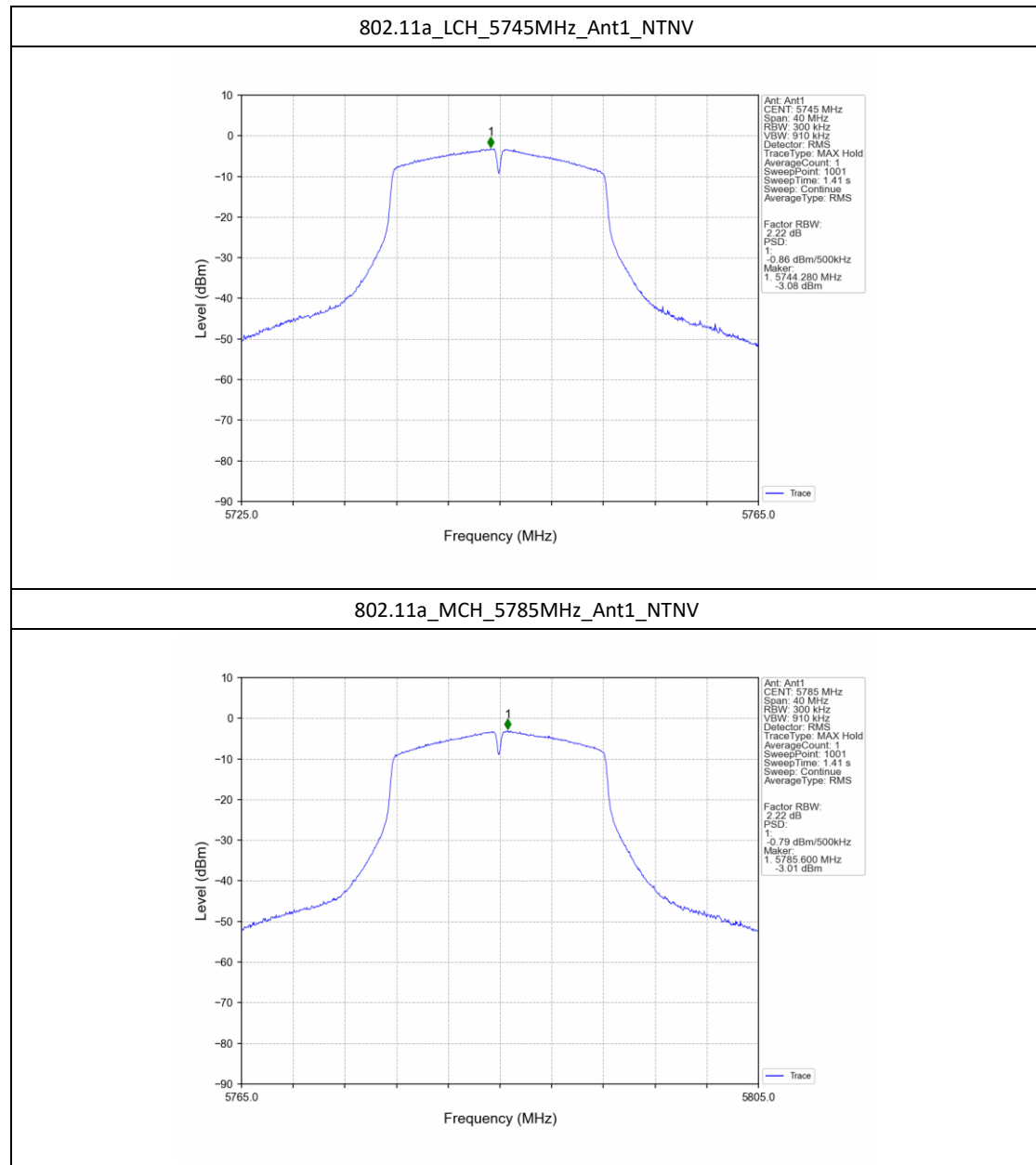
4.1 Test Result

4.1.1 PSD-Band3

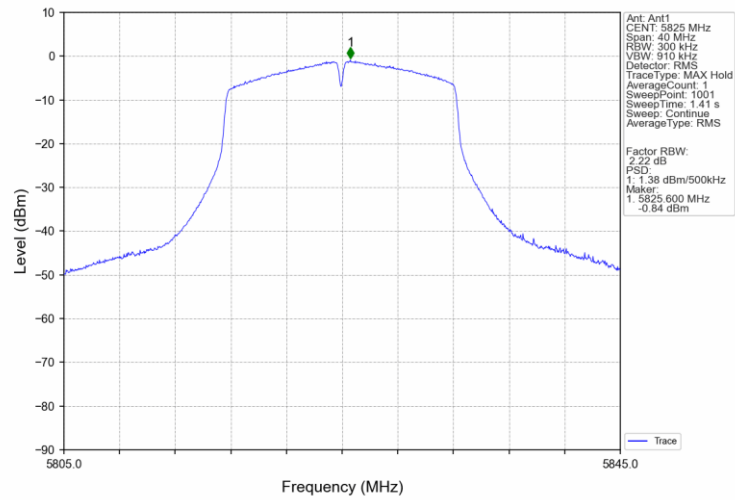
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-0.86	<=30	Pass
		5785	-0.79	<=30	Pass
		5825	1.38	<=30	Pass
802.11n (HT20)	SISO	5745	-1.42	<=30	Pass
		5785	-0.96	<=30	Pass
		5825	1.20	<=30	Pass
802.11n (HT40)	SISO	5755	-2.58	<=30	Pass
		5795	-0.60	<=30	Pass
Note1: Antenna Gain: Ant1: 2.00dBi;					

4.2 Test Graph

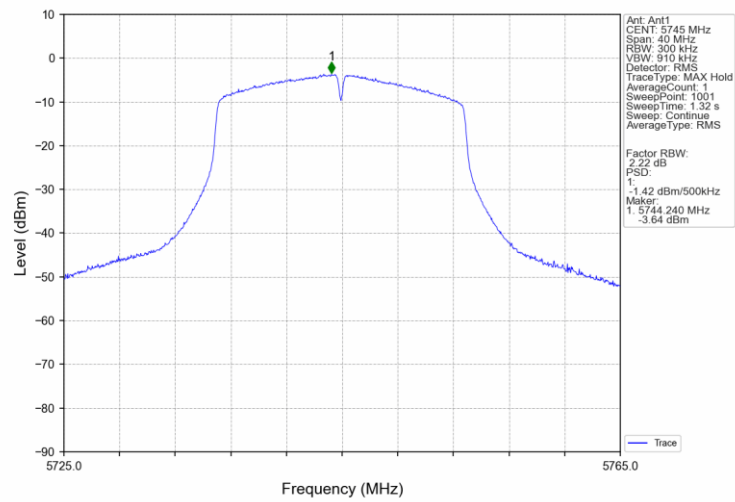
4.2.1 PSD-Band3



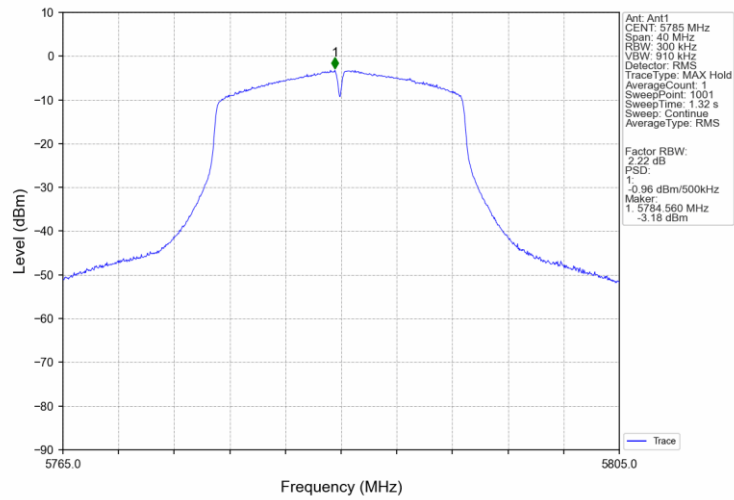
802.11a_HCH_5825MHz_Ant1_NTNV



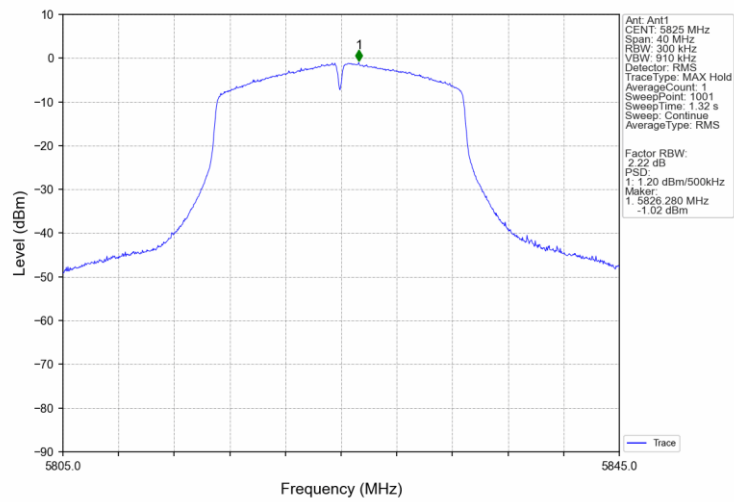
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



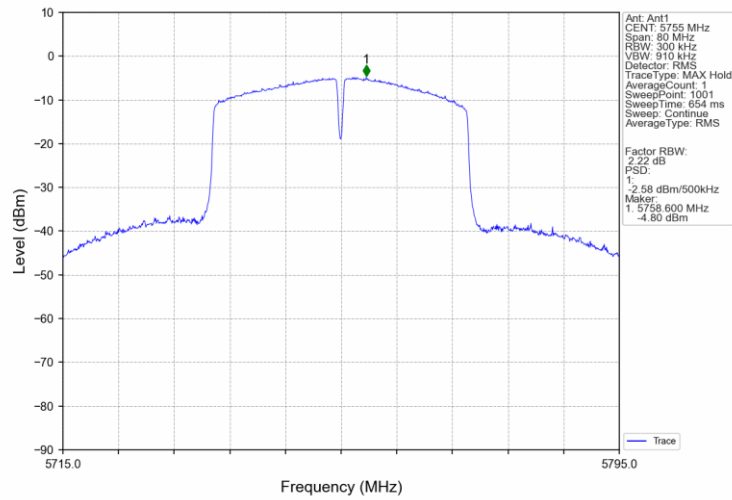
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



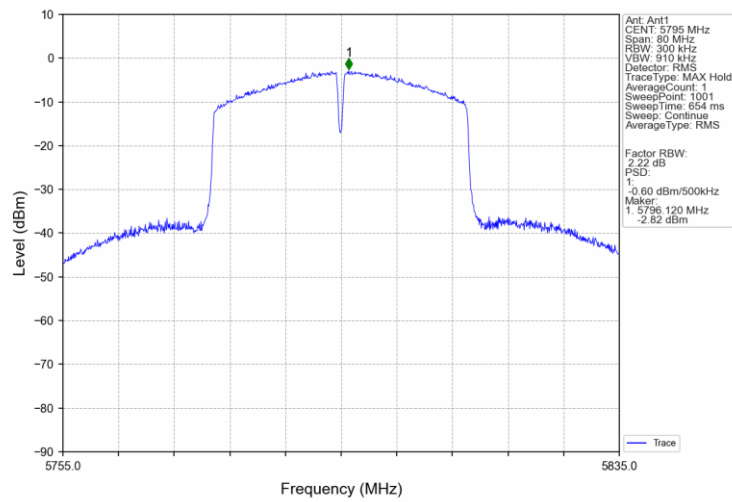
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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
802.11a	SISO	5745	20	102	5744.900	5725 to 5850	Pass
				120	5744.880	5725 to 5850	Pass
				138	5744.880	5725 to 5850	Pass
			-30	120	5744.900	5725 to 5850	Pass
			-20	120	5744.920	5725 to 5850	Pass
			-10	120	5744.880	5725 to 5850	Pass
			0	120	5744.860	5725 to 5850	Pass
			10	120	5744.920	5725 to 5850	Pass
			30	120	5744.900	5725 to 5850	Pass
			40	120	5744.900	5725 to 5850	Pass
			50	120	5744.900	5725 to 5850	Pass
		5785	20	102	5784.960	5725 to 5850	Pass
				120	5784.980	5725 to 5850	Pass
				138	5784.960	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.960	5725 to 5850	Pass
			-10	120	5784.960	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5784.960	5725 to 5850	Pass
			40	120	5784.940	5725 to 5850	Pass
			50	120	5784.960	5725 to 5850	Pass
		5825	20	102	5824.980	5725 to 5850	Pass
				120	5824.980	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5824.960	5725 to 5850	Pass
			-20	120	5824.960	5725 to 5850	Pass
			-10	120	5824.980	5725 to 5850	Pass
			0	120	5824.960	5725 to 5850	Pass
			10	120	5824.980	5725 to 5850	Pass
			30	120	5824.960	5725 to 5850	Pass
			40	120	5824.980	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
802.11n (HT20)	SISO	5745	20	102	5744.880	5725 to 5850	Pass
				120	5744.880	5725 to 5850	Pass
				138	5744.900	5725 to 5850	Pass

			-30	120	5744.920	5725 to 5850	Pass
			-20	120	5744.900	5725 to 5850	Pass
			-10	120	5744.900	5725 to 5850	Pass
			0	120	5744.900	5725 to 5850	Pass
			10	120	5744.900	5725 to 5850	Pass
			30	120	5744.920	5725 to 5850	Pass
			40	120	5744.900	5725 to 5850	Pass
			50	120	5744.900	5725 to 5850	Pass
		5785	20	102	5784.920	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
				138	5784.960	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
			-20	120	5784.980	5725 to 5850	Pass
			-10	120	5784.940	5725 to 5850	Pass
			0	120	5784.980	5725 to 5850	Pass
			10	120	5784.960	5725 to 5850	Pass
			30	120	5784.960	5725 to 5850	Pass
			40	120	5784.960	5725 to 5850	Pass
			50	120	5784.980	5725 to 5850	Pass
		5825	20	102	5824.940	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5824.980	5725 to 5850	Pass
			-30	120	5824.980	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5824.960	5725 to 5850	Pass
			0	120	5825.000	5725 to 5850	Pass
			10	120	5824.940	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass
			40	120	5824.980	5725 to 5850	Pass
			50	120	5824.940	5725 to 5850	Pass
802.11n (HT40)	SISO	5755	20	102	5754.880	5725 to 5850	Pass
				120	5754.840	5725 to 5850	Pass
				138	5754.920	5725 to 5850	Pass
			-30	120	5754.920	5725 to 5850	Pass
			-20	120	5754.960	5725 to 5850	Pass
			-10	120	5754.960	5725 to 5850	Pass
			0	120	5754.920	5725 to 5850	Pass
			10	120	5754.920	5725 to 5850	Pass
			30	120	5754.960	5725 to 5850	Pass
			40	120	5754.960	5725 to 5850	Pass
			50	120	5754.880	5725 to 5850	Pass
		5795	20	102	5794.960	5725 to 5850	Pass
				120	5794.960	5725 to 5850	Pass
				138	5794.960	5725 to 5850	Pass
			-30	120	5795.040	5725 to 5850	Pass
			-20	120	5795.040	5725 to 5850	Pass

			-10	120	5795.080	5725 to 5850	Pass
			0	120	5795.080	5725 to 5850	Pass
			10	120	5795.000	5725 to 5850	Pass
			30	120	5794.960	5725 to 5850	Pass
			40	120	5795.000	5725 to 5850	Pass
			50	120	5794.920	5725 to 5850	Pass

6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
5745	5825	0.0245	13.90
5755	5795	0.0221	13.44