

1. Duty Cycle

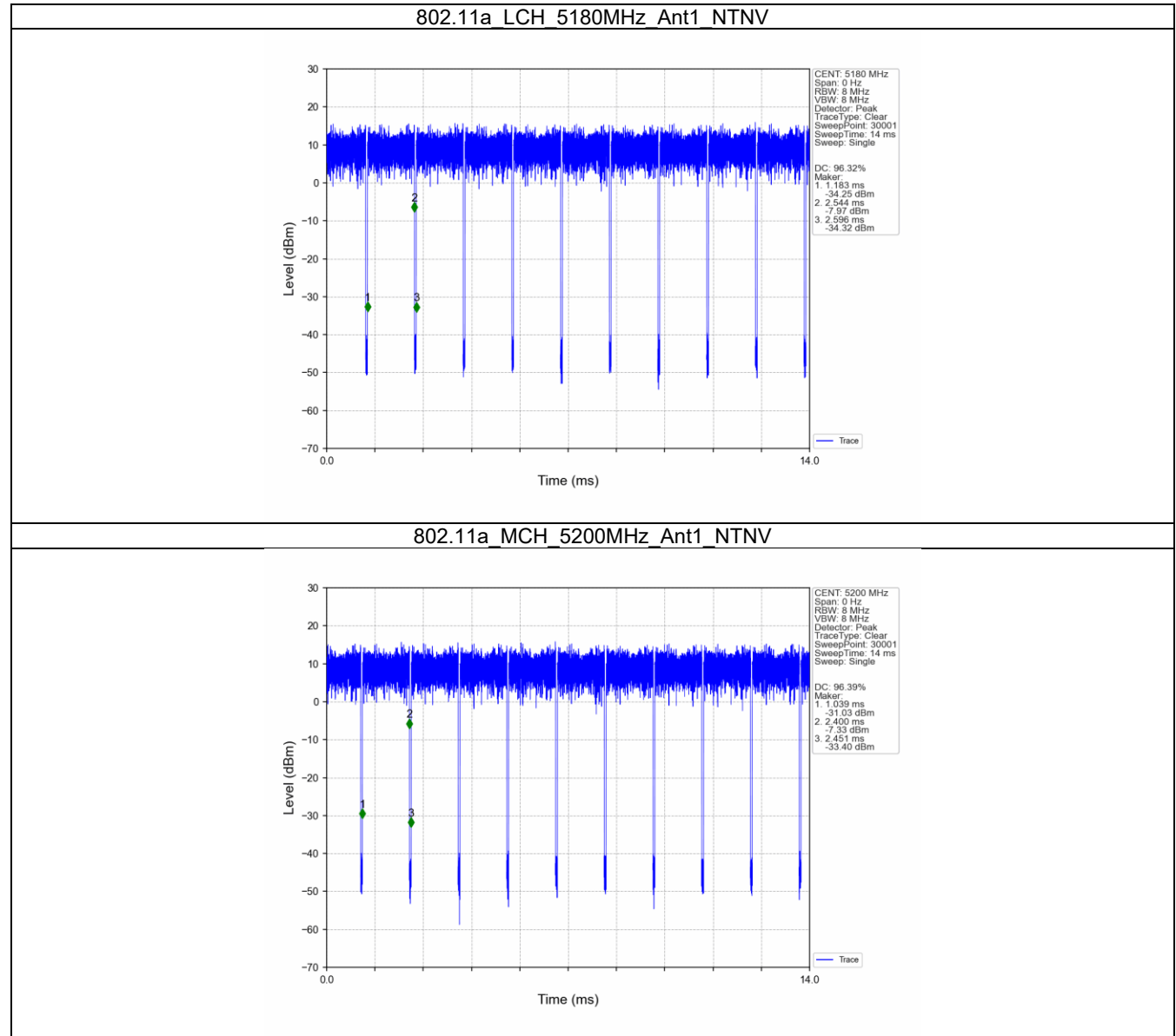
1.1 Test Result

1.1.1 Ant1

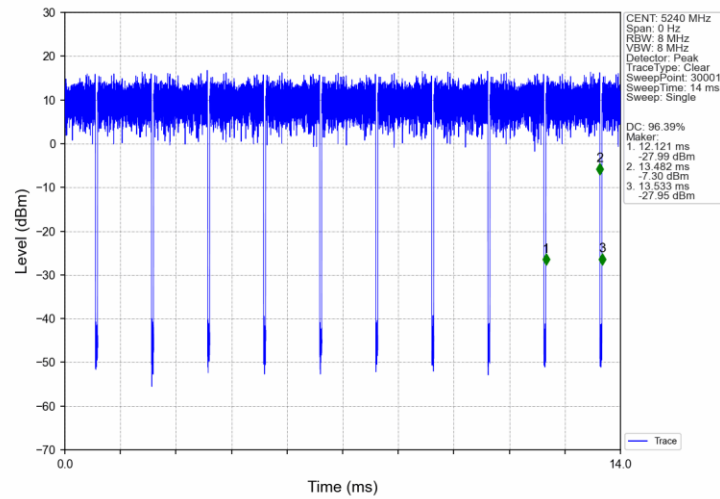
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.361	1.413	96.32	0.16	0.03
		5200	1.361	1.412	96.39	0.16	0.03
		5240	1.361	1.412	96.39	0.16	0.03
802.11n (HT20)	SISO	5180	1.273	1.324	96.15	0.17	0.04
		5200	1.273	1.325	96.08	0.17	0.04
		5240	1.274	1.325	96.15	0.17	0.00
802.11n (HT40)	SISO	5190	0.633	0.684	92.54	0.34	0.03
		5230	0.633	0.685	92.41	0.34	0.03

1.2 Test Graph

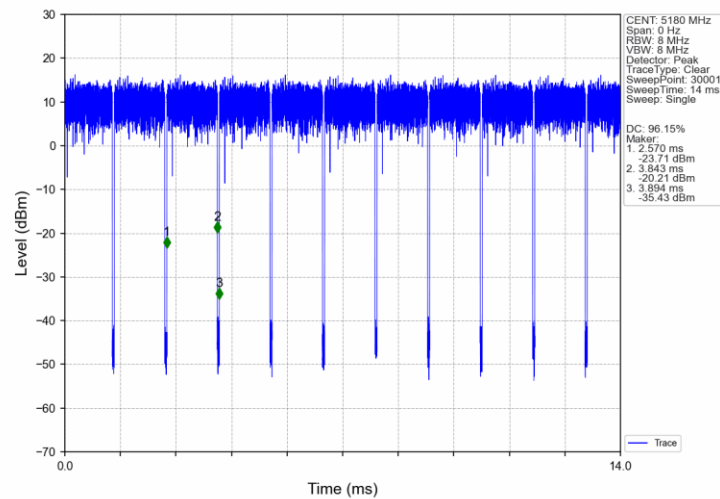
1.2.1 Ant1



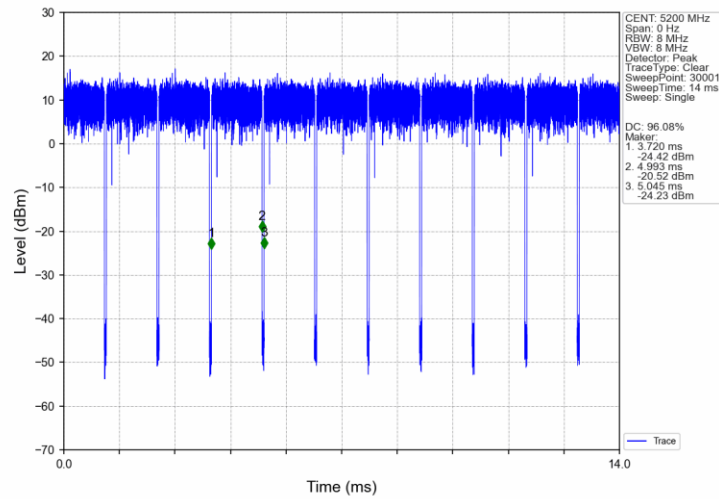
802.11a_HCH_5240MHz_Ant1_NTNV



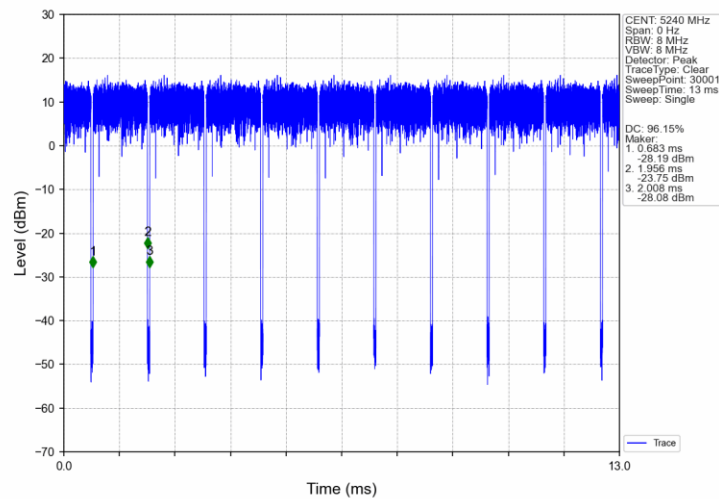
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



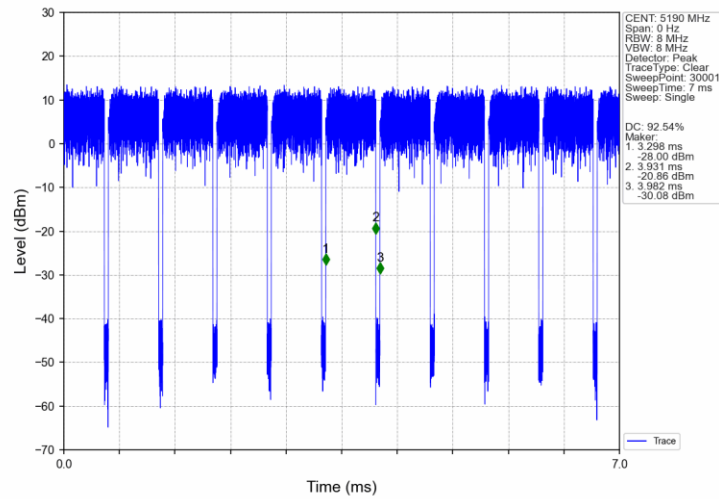
802.11n(HT20) MCH 5200MHz Ant1 NTN



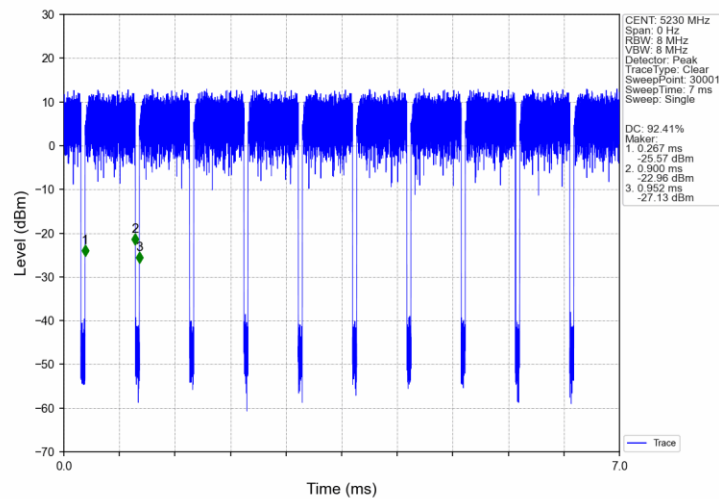
802.11n(HT20) HCH 5240MHz Ant1 NTN



802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

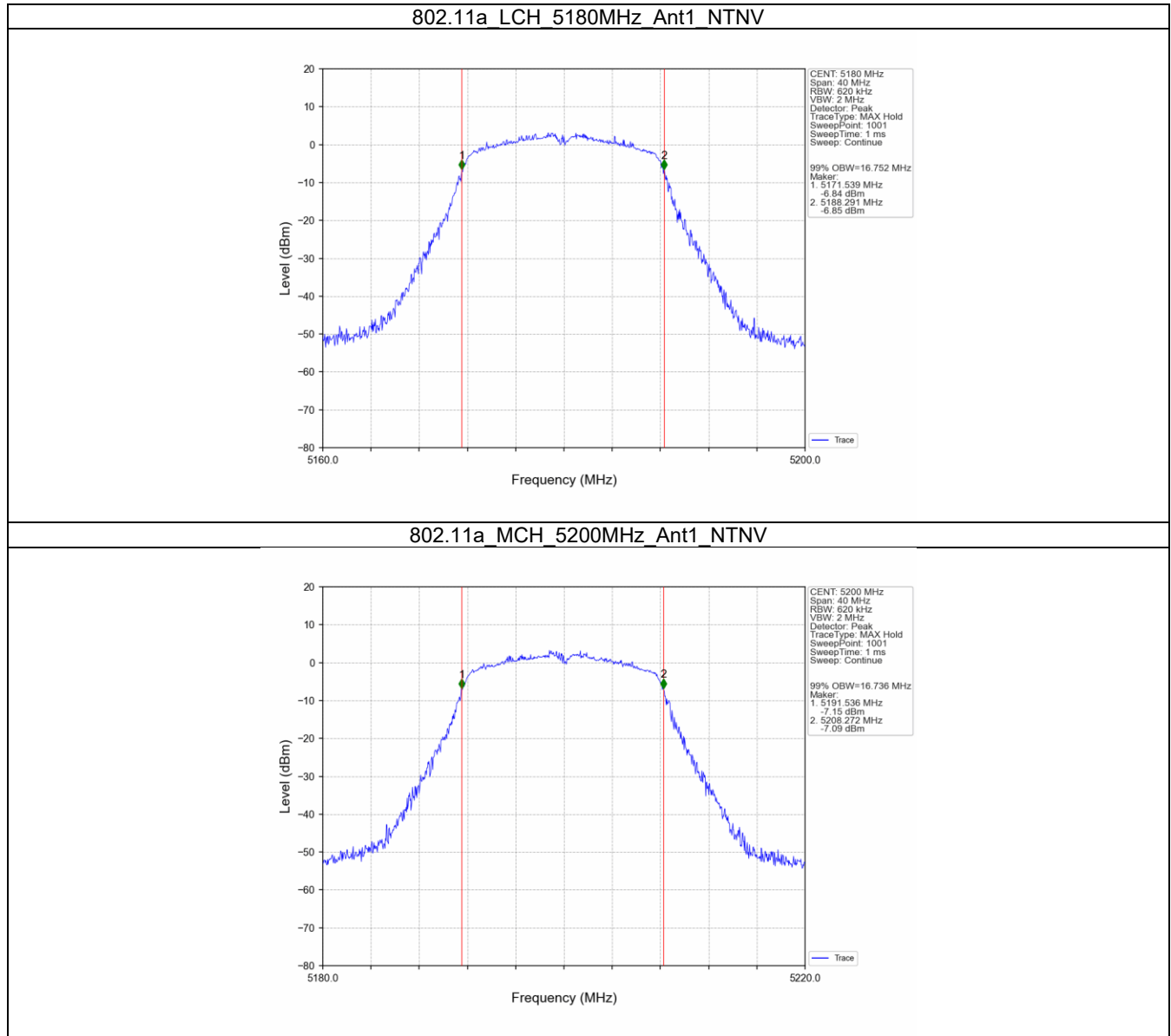
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.752	/	Pass
		5200	1	16.736	/	Pass
		5240	1	16.788	/	Pass
802.11n (HT20)	SISO	5180	1	17.716	/	Pass
		5200	1	17.720	/	Pass
		5240	1	17.751	/	Pass
802.11n (HT40)	SISO	5190	1	35.293	/	Pass
		5230	1	35.355	/	Pass

2.1.2 26dB BW

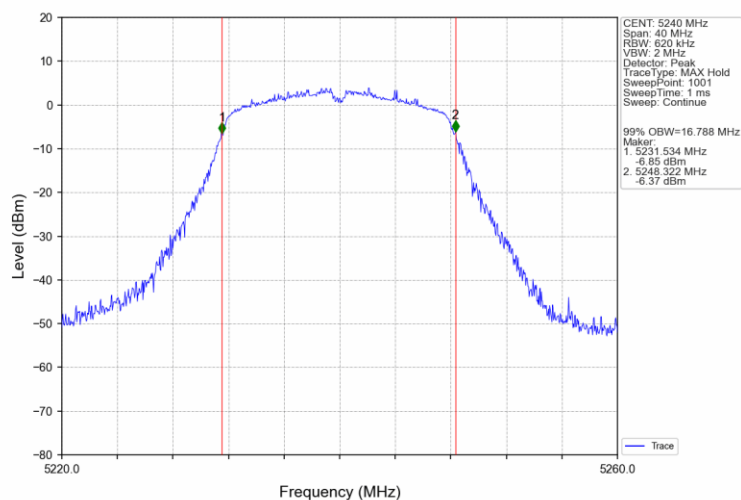
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.381	/	Pass
		5200	1	19.896	/	Pass
		5240	1	20.309	/	Pass
802.11n (HT20)	SISO	5180	1	21.049	/	Pass
		5200	1	21.607	/	Pass
		5240	1	21.274	/	Pass
802.11n (HT40)	SISO	5190	1	38.456	/	Pass
		5230	1	38.706	/	Pass

2.2 Test Graph

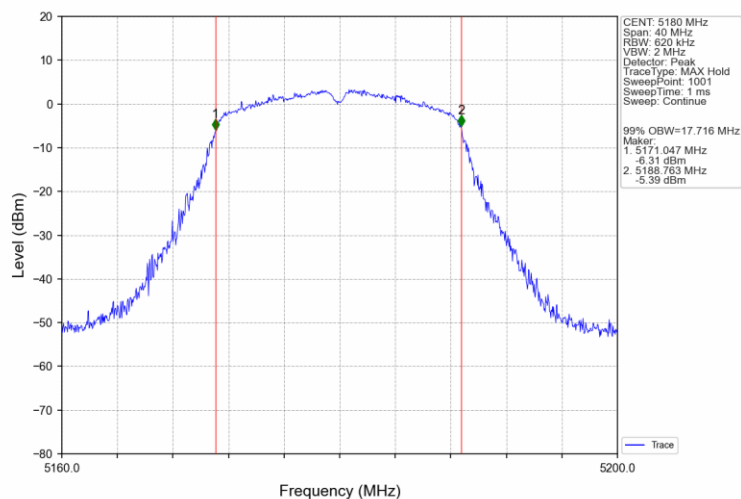
2.2.1 OBW



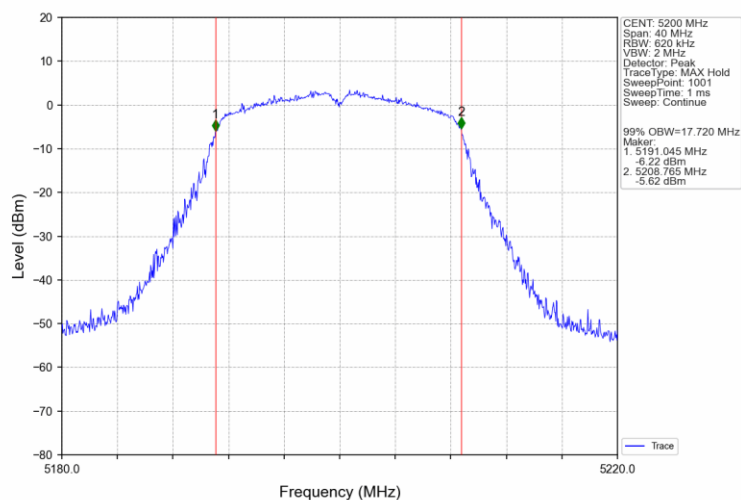
802.11a_HCH_5240MHz_Ant1_NTNV



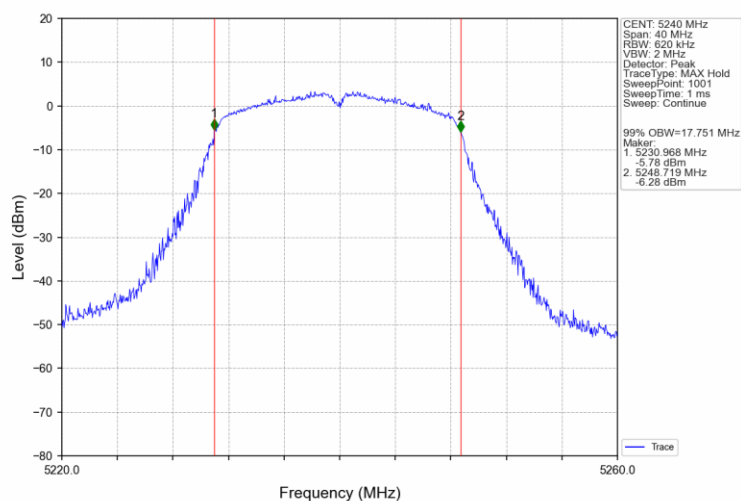
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



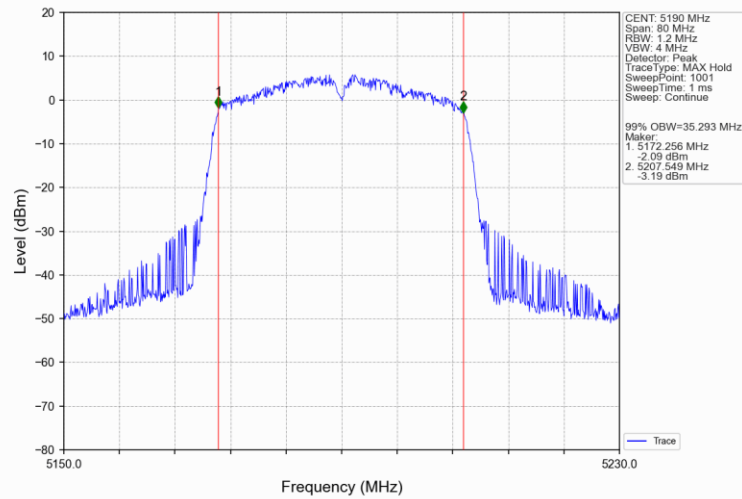
802.11n(HT20) MCH 5200MHz Ant1 NTNv



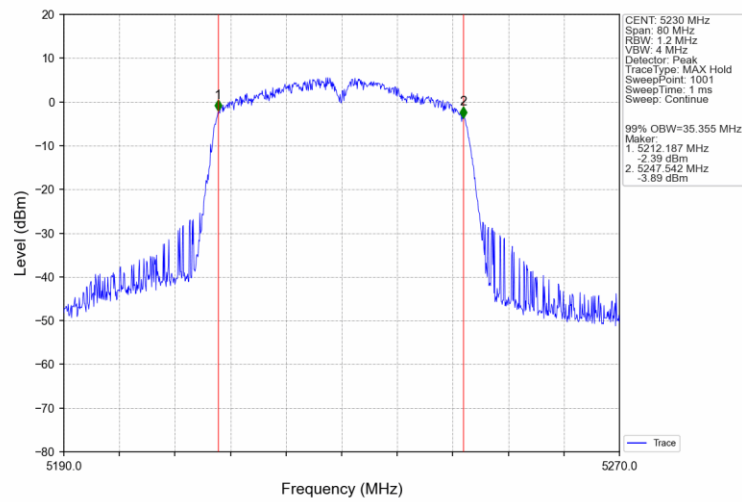
802.11n(HT20) HCH 5240MHz Ant1 NTNv



802.11n(HT40) LCH 5190MHz Ant1 NTN

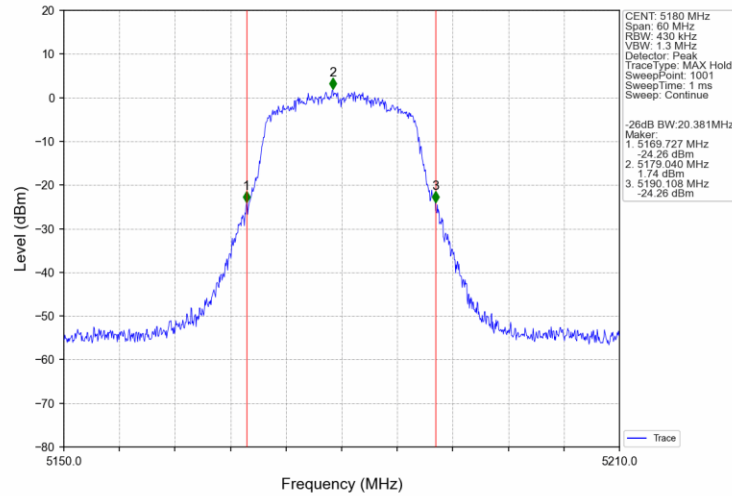


802.11n(HT40) HCH 5230MHz Ant1 NTN

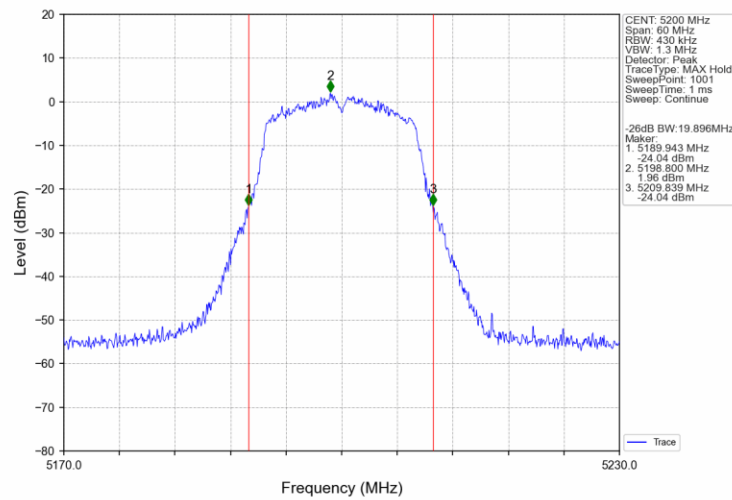


2.2.2 26dB BW

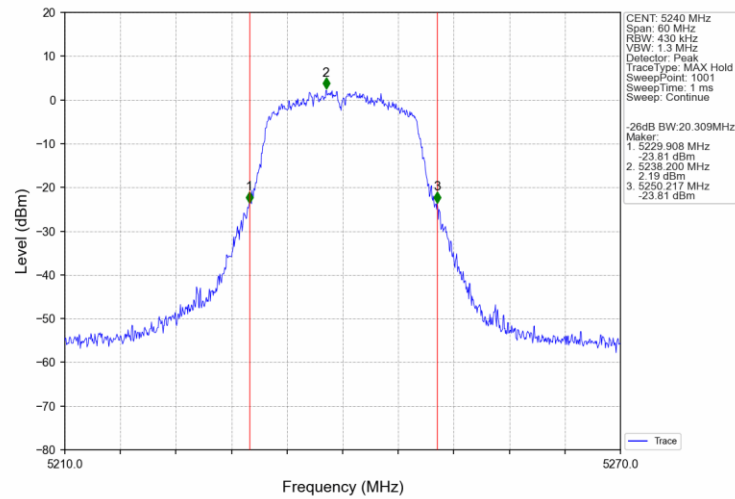
802.11a LCH 5180MHz Ant1 NTNv



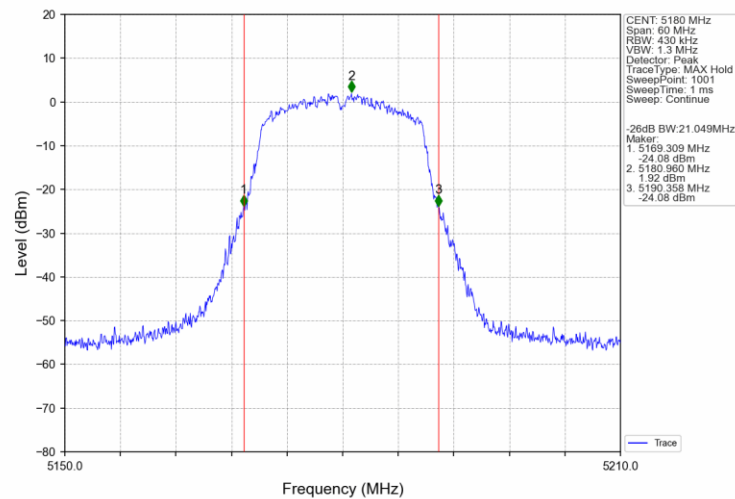
802.11a_MCH_5200MHz_Ant1_NTNv



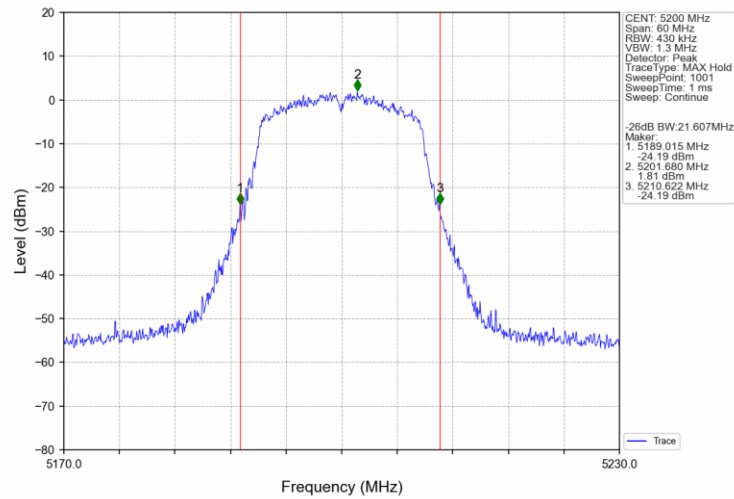
802.11a_HCH_5240MHz_Ant1_NTNV



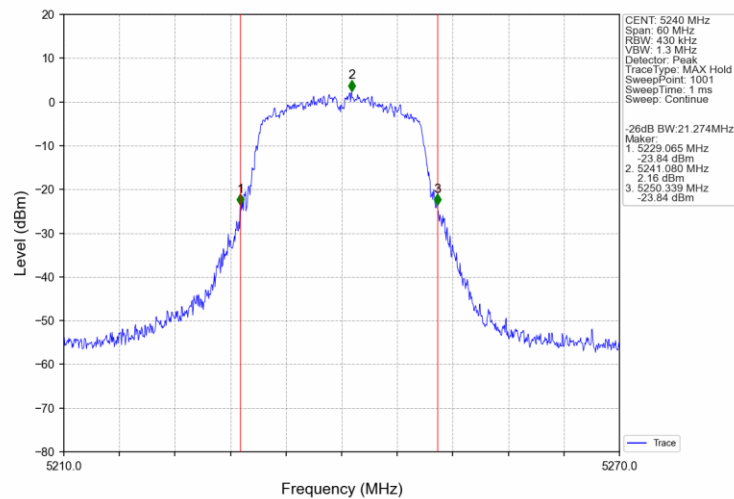
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



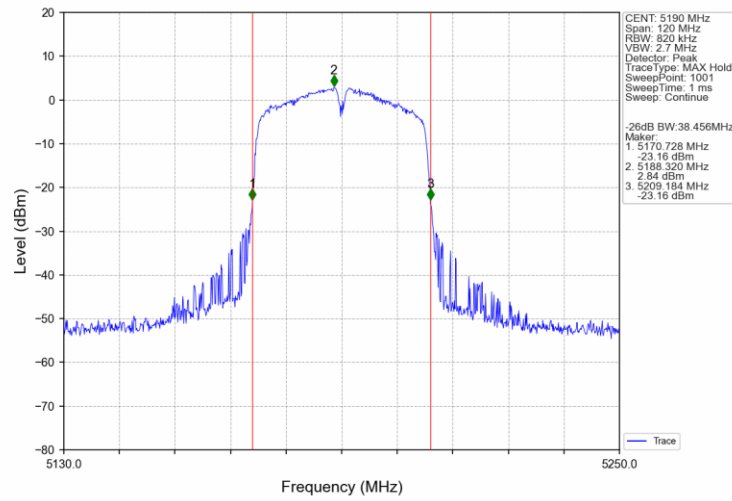
802.11n(HT20) MCH 5200MHz Ant1 NTVN



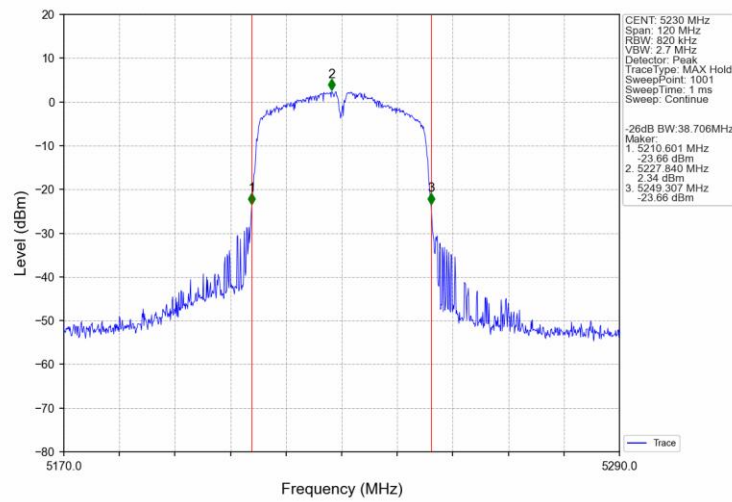
802.11n(HT20) HCH 5240MHz Ant1 NTVN



802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



3. Maximum Conducted Output Power

3.1 Test Result

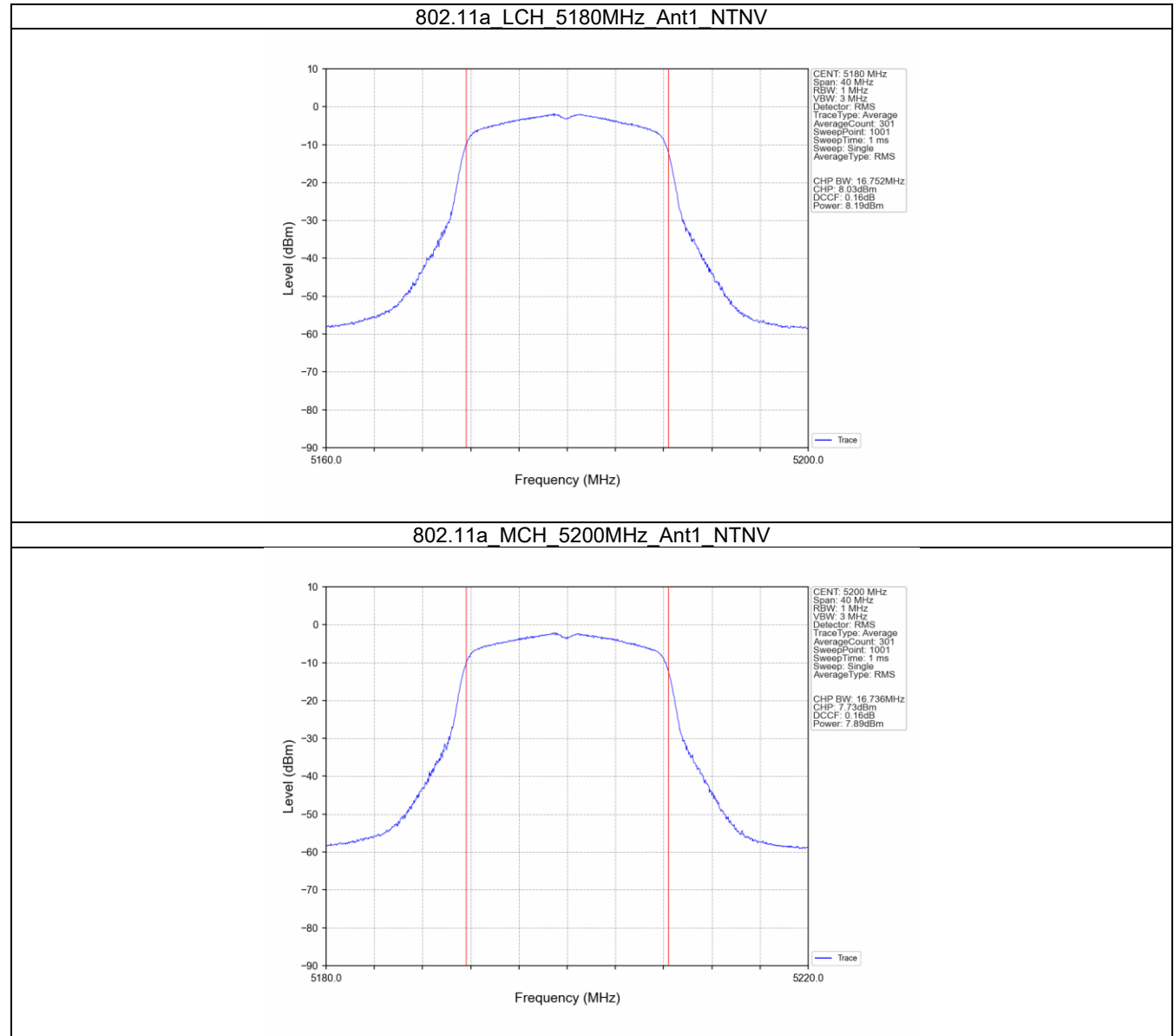
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	8.19	≤ 23.98	Pass
		5200	7.89	≤ 23.98	Pass
		5240	8.86	≤ 23.98	Pass
802.11n (HT20)	SISO	5180	8.81	≤ 23.98	Pass
		5200	8.59	≤ 23.98	Pass
		5240	8.69	≤ 23.98	Pass
802.11n (HT40)	SISO	5190	9.22	≤ 23.98	Pass
		5230	8.99	≤ 23.98	Pass

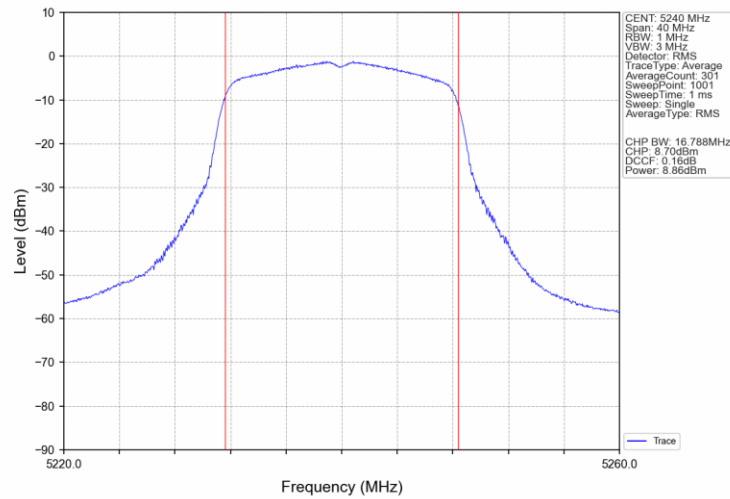
Note1: Antenna Gain: Ant1: 3.19dBi;

3.2 Test Graph

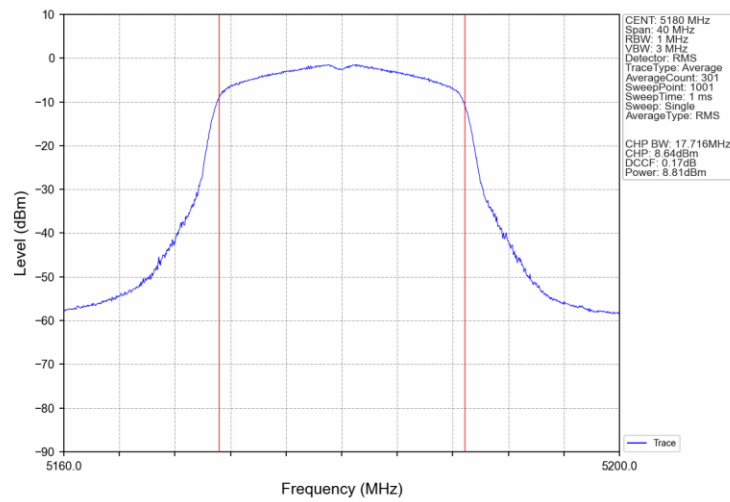
3.2.1 Power



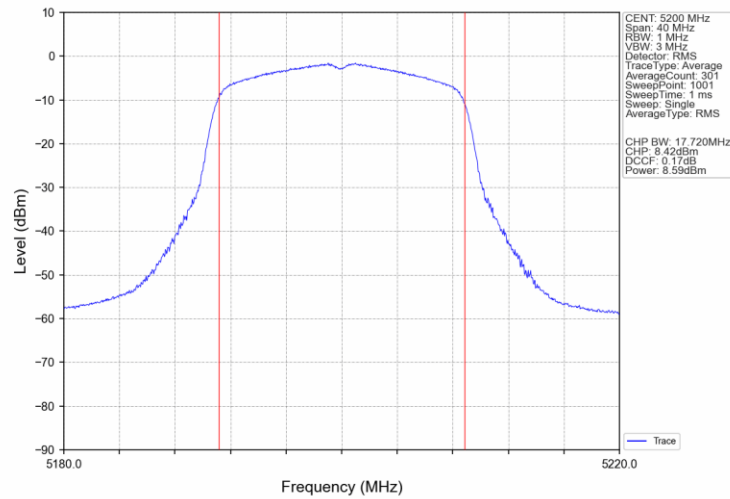
802.11a_HCH_5240MHz_Ant1_NTNV



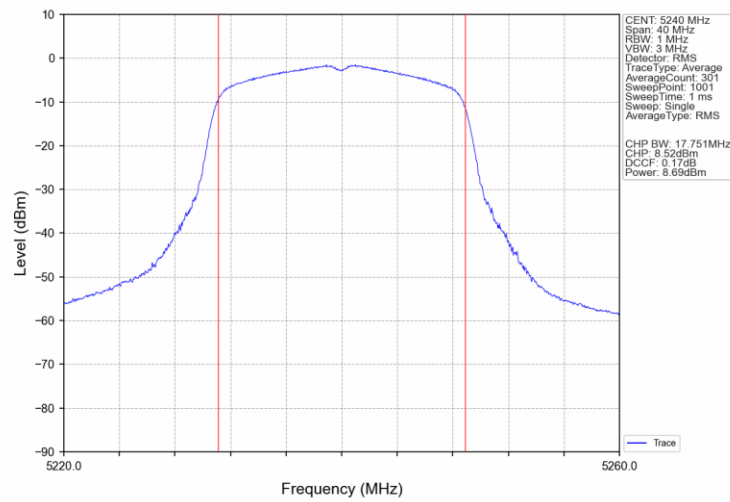
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



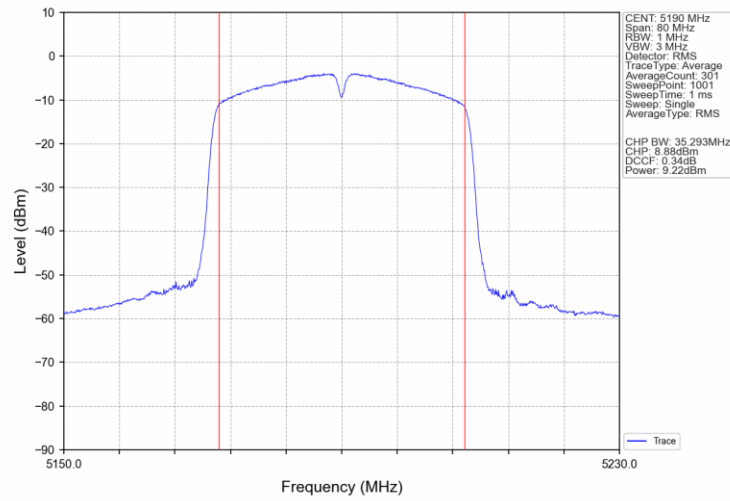
802.11n(HT20) MCH 5200MHz Ant1 NTNv



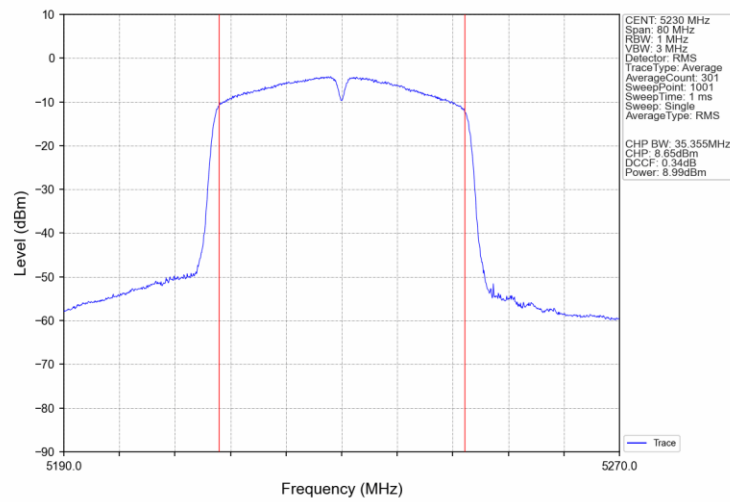
802.11n(HT20) HCH 5240MHz Ant1 NTNv



802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



4. Maximum Power Spectral Density

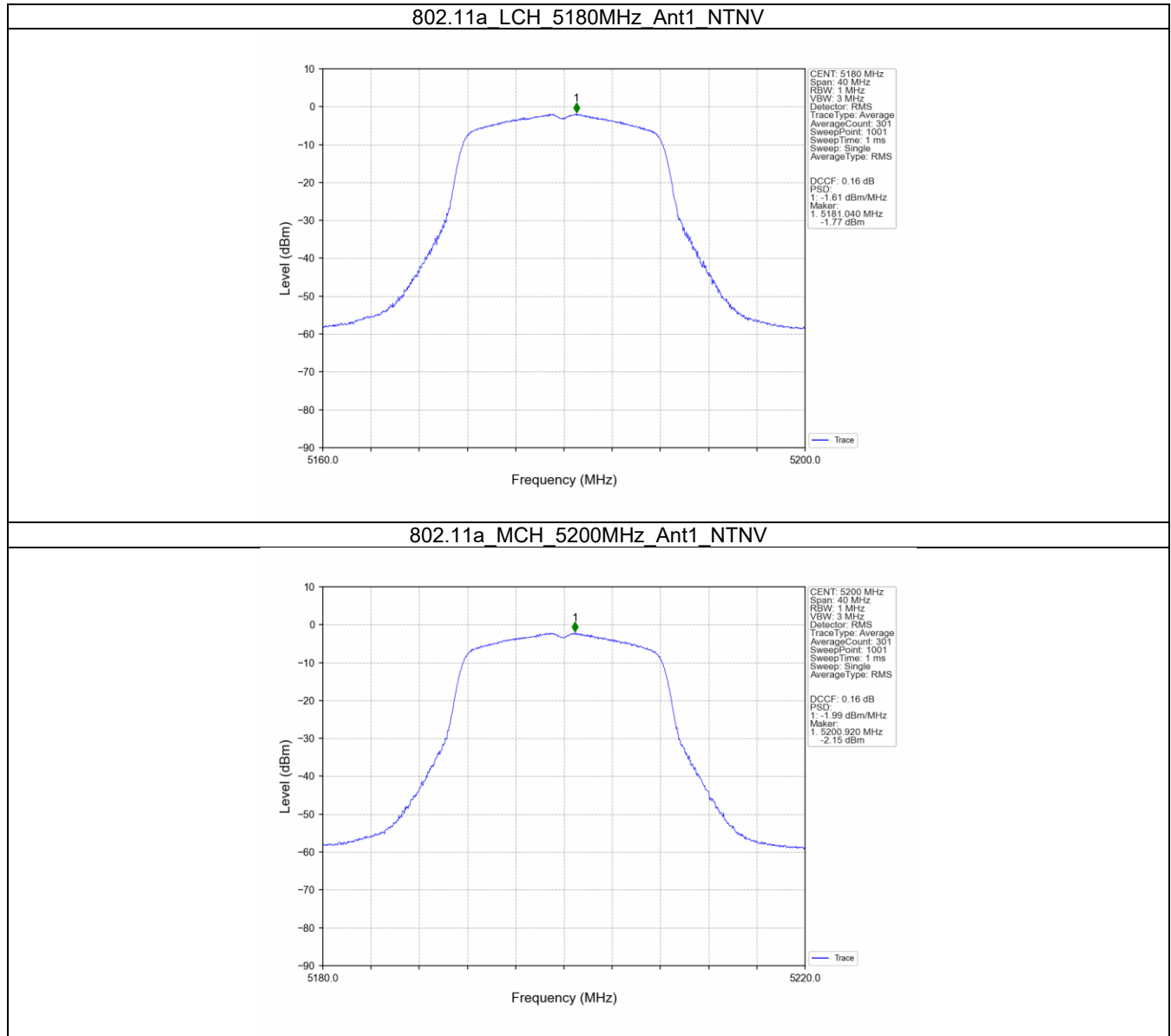
4.1 Test Result

4.1.1 PSD

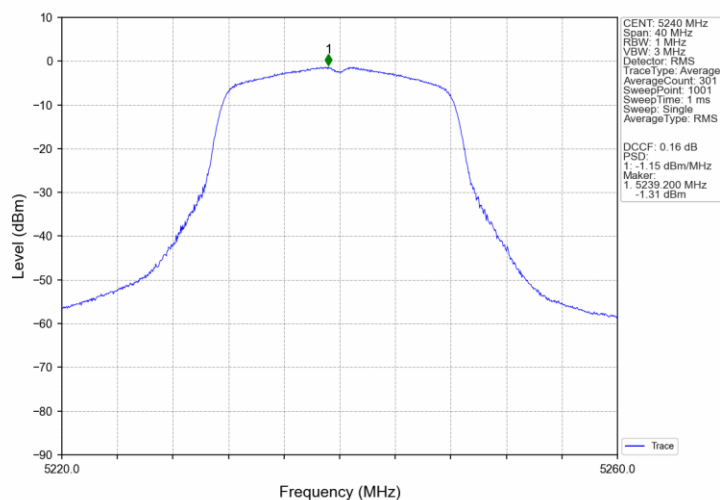
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-1.61	<=11	Pass
		5200	-1.99	<=11	Pass
		5240	-1.15	<=11	Pass
802.11n (HT20)	SISO	5180	-1.13	<=11	Pass
		5200	-1.33	<=11	Pass
		5240	-1.27	<=11	Pass
802.11n (HT40)	SISO	5190	-3.57	<=11	Pass
		5230	-3.77	<=11	Pass
Note1: Antenna Gain: Ant1: 3.19dBi;					

4.2 Test Graph

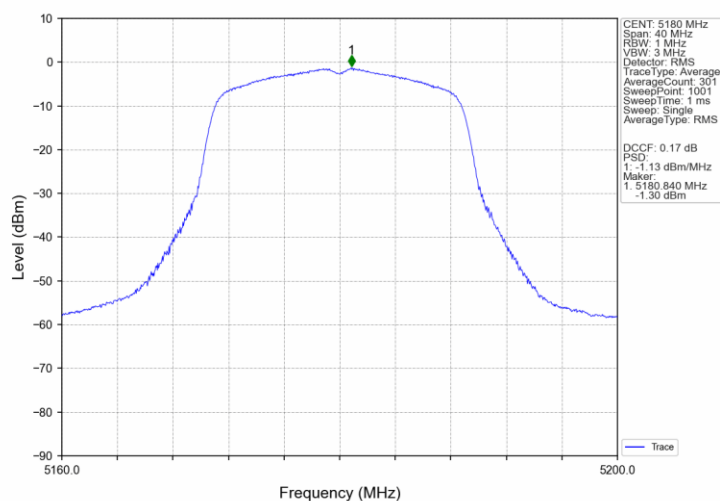
4.2.1 PSD



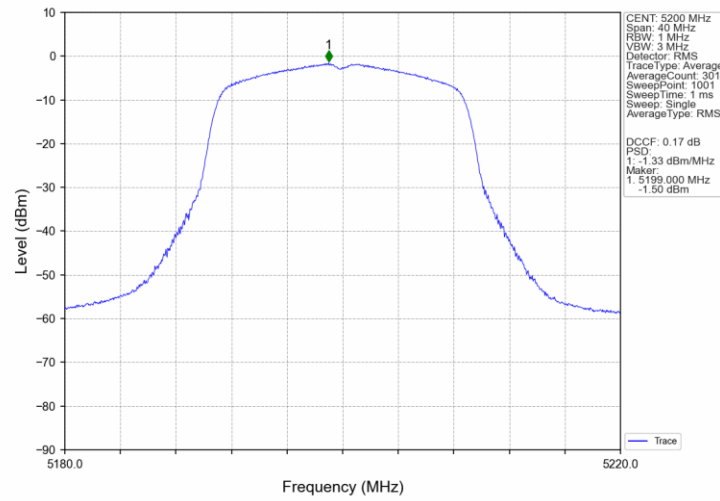
802.11a_HCH_5240MHz_Ant1_NTNV



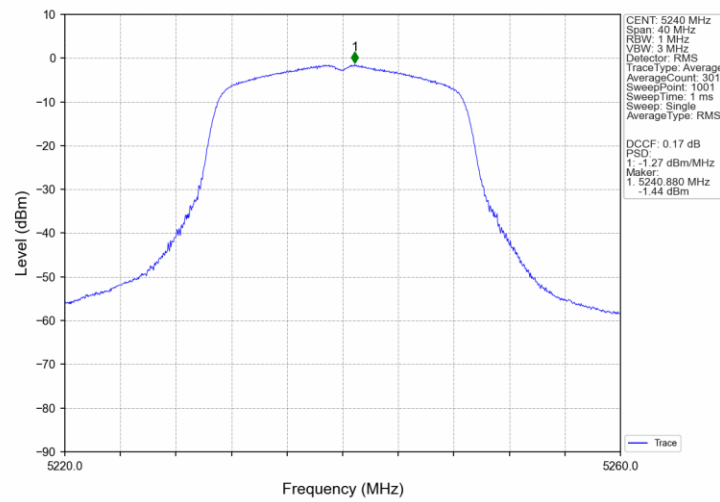
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



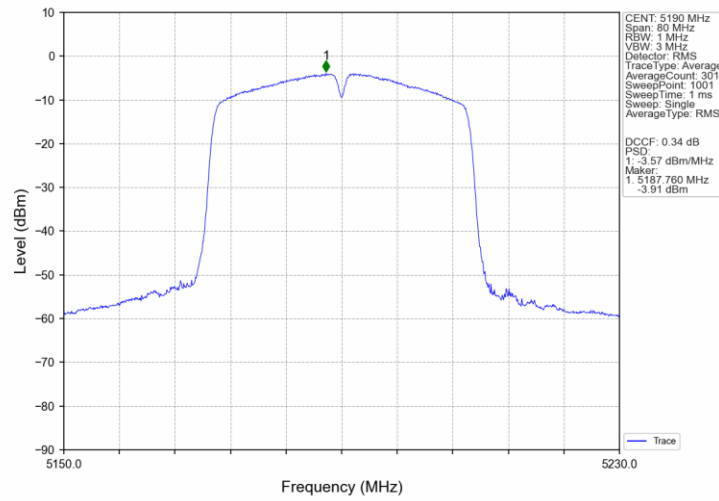
802.11n(HT20) MCH 5200MHz Ant1 NTVN



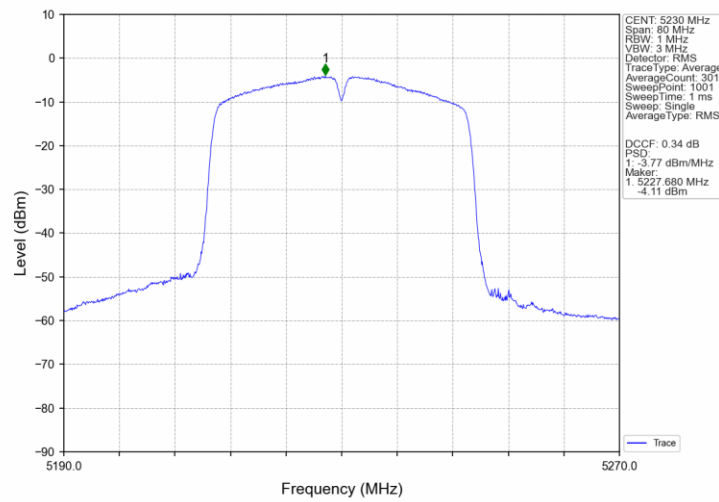
802.11n(HT20) HCH 5240MHz Ant1 NTVN



802.11n(HT40) LCH 5190MHz Ant1 NTN



802.11n(HT40) HCH 5230MHz Ant1 NTN



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	5180	20	3.70	5179.994	5150 to 5250	Pass
				4.26	5179.994	5150 to 5250	Pass
				3.15	5179.994	5150 to 5250	Pass
			-30	3.70	5179.993	5150 to 5250	Pass
			-20	3.70	5179.993	5150 to 5250	Pass
			-10	3.70	5179.993	5150 to 5250	Pass
			0	3.70	5179.993	5150 to 5250	Pass
			10	3.70	5179.993	5150 to 5250	Pass
			30	3.70	5179.992	5150 to 5250	Pass
			40	3.70	5179.992	5150 to 5250	Pass
			50	3.70	5179.992	5150 to 5250	Pass
		5200	20	3.70	5199.990	5150 to 5250	Pass
				4.26	5199.990	5150 to 5250	Pass
				3.15	5199.989	5150 to 5250	Pass
			-30	3.70	5199.989	5150 to 5250	Pass
			-20	3.70	5199.989	5150 to 5250	Pass
			-10	3.70	5199.989	5150 to 5250	Pass
			0	3.70	5199.989	5150 to 5250	Pass
			10	3.70	5199.989	5150 to 5250	Pass
			30	3.70	5199.989	5150 to 5250	Pass
			40	3.70	5199.989	5150 to 5250	Pass
			50	3.70	5199.989	5150 to 5250	Pass
		5240	20	3.70	5239.989	5150 to 5250	Pass
				4.26	5239.989	5150 to 5250	Pass
				3.15	5239.989	5150 to 5250	Pass
			-30	3.70	5239.989	5150 to 5250	Pass
			-20	3.70	5239.988	5150 to 5250	Pass
			-10	3.70	5239.988	5150 to 5250	Pass
			0	3.70	5239.988	5150 to 5250	Pass
			10	3.70	5239.988	5150 to 5250	Pass
			30	3.70	5239.988	5150 to 5250	Pass
			40	3.70	5239.988	5150 to 5250	Pass
			50	3.70	5239.988	5150 to 5250	Pass
		5190	20	3.70	5189.989	5150 to 5250	Pass
				4.26	5189.989	5150 to 5250	Pass
				3.15	5189.989	5150 to 5250	Pass
			-30	3.70	5189.989	5150 to 5250	Pass
			-20	3.70	5189.989	5150 to 5250	Pass
			-10	3.70	5189.988	5150 to 5250	Pass
			0	3.70	5189.988	5150 to 5250	Pass
			10	3.70	5189.988	5150 to 5250	Pass
			30	3.70	5189.988	5150 to 5250	Pass
			40	3.70	5189.988	5150 to 5250	Pass
			50	3.70	5189.988	5150 to 5250	Pass
		5230	20	3.70	5229.988	5150 to 5250	Pass
				4.26	5229.988	5150 to 5250	Pass



				3.15	5229.988	5150 to 5250	Pass
			-30	3.70	5229.988	5150 to 5250	Pass
			-20	3.70	5229.988	5150 to 5250	Pass
			-10	3.70	5229.988	5150 to 5250	Pass
			0	3.70	5229.988	5150 to 5250	Pass
			10	3.70	5229.988	5150 to 5250	Pass
			30	3.70	5229.988	5150 to 5250	Pass
			40	3.70	5229.987	5150 to 5250	Pass
			50	3.70	5229.987	5150 to 5250	Pass

***** End of Report *****