

Appendix RF Test Data for WIFI5.2G

Company: : Shenzhen Musheng Technology Co., Ltd

EUT : Motorcycle Drive Recorder

FCC ID: : 2BEAX-AKY-730PRO

Model Number : AKY-730Pro

Report No. : HTT202511239F03

Reviewed By : Heber He

1. Duty Cycle

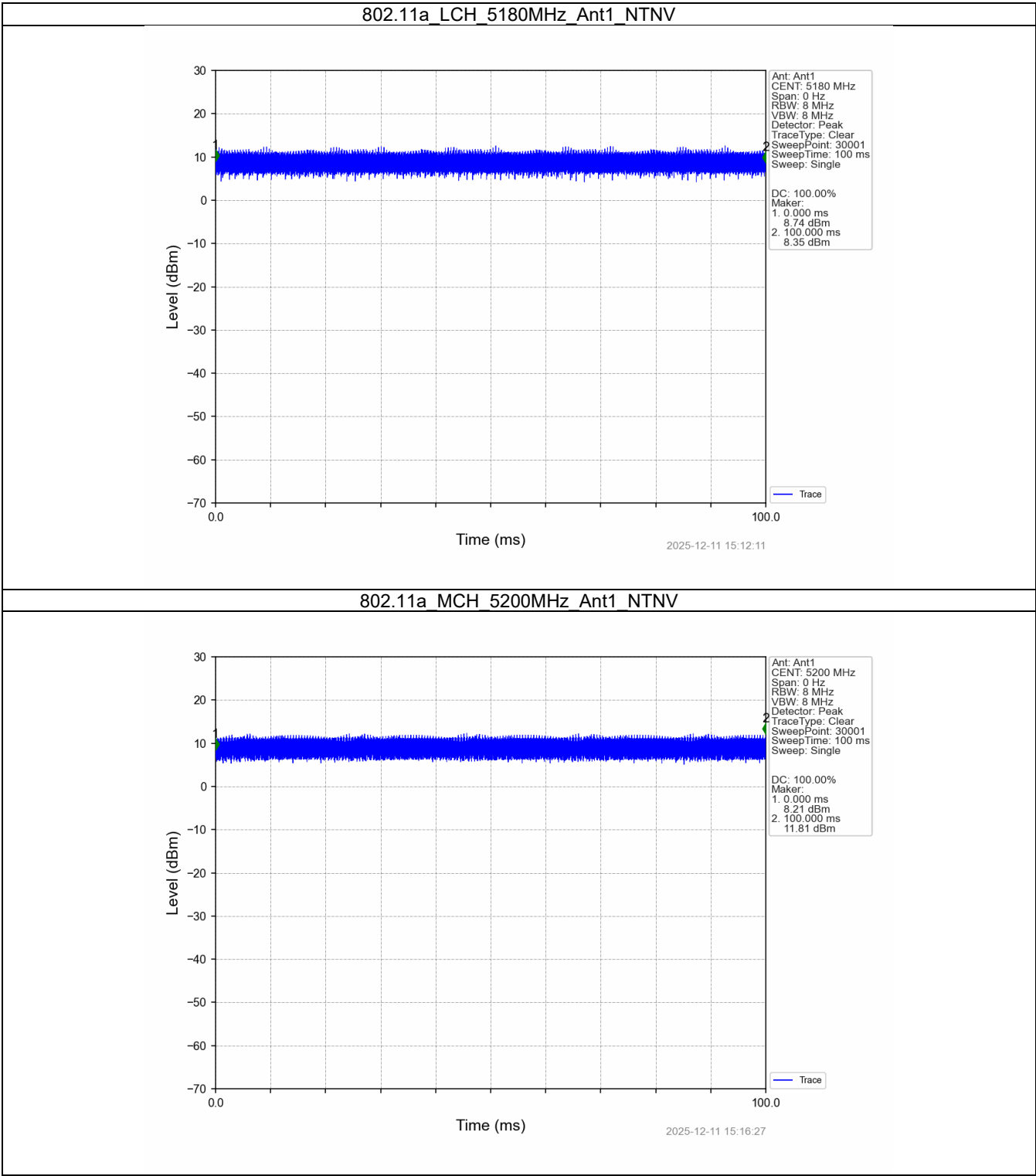
1.1 Test Result

1.1.1 Ant1

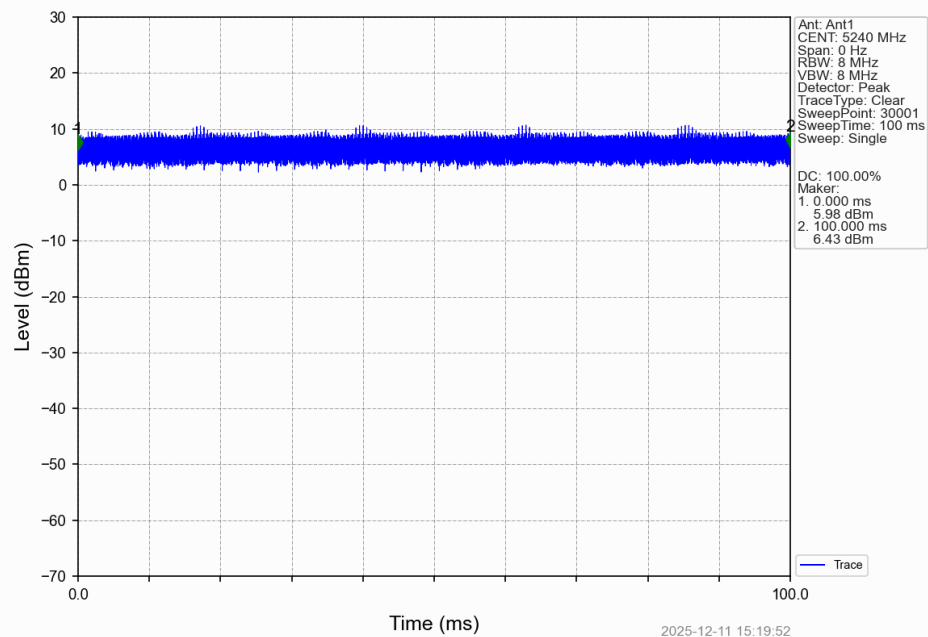
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5210	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

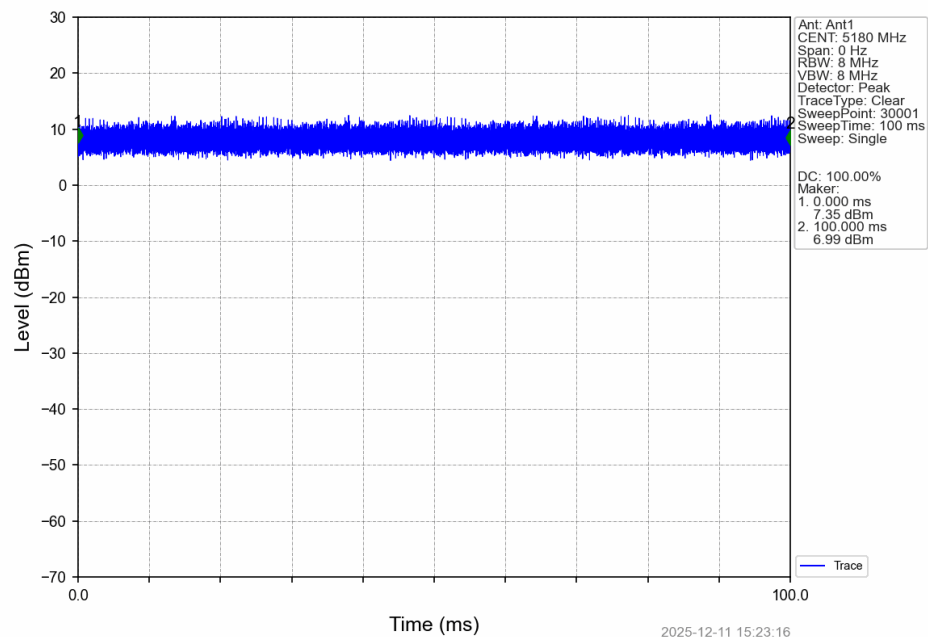
1.2.1 Ant1



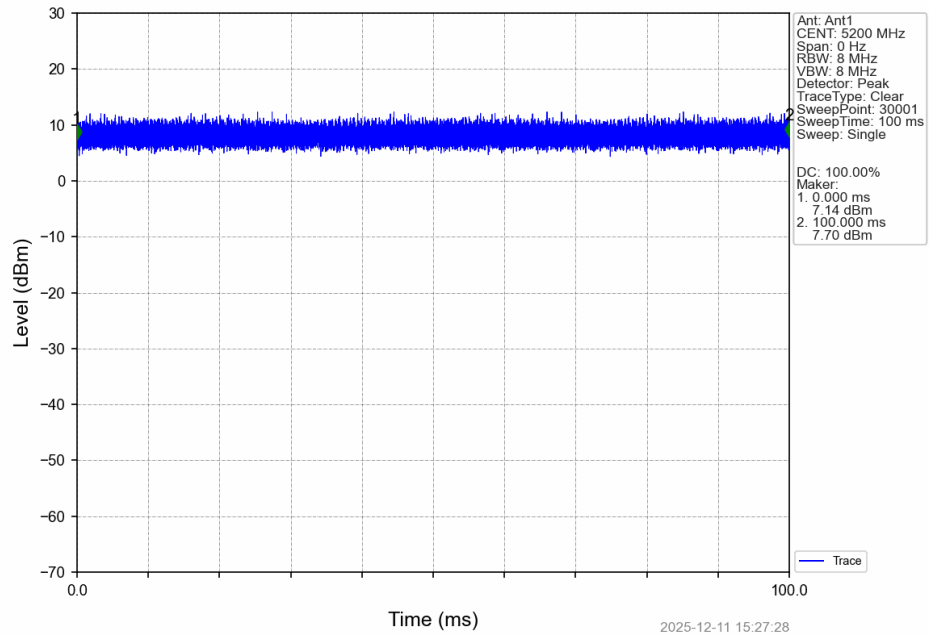
802.11a_HCH_5240MHz_Ant1_NTNV



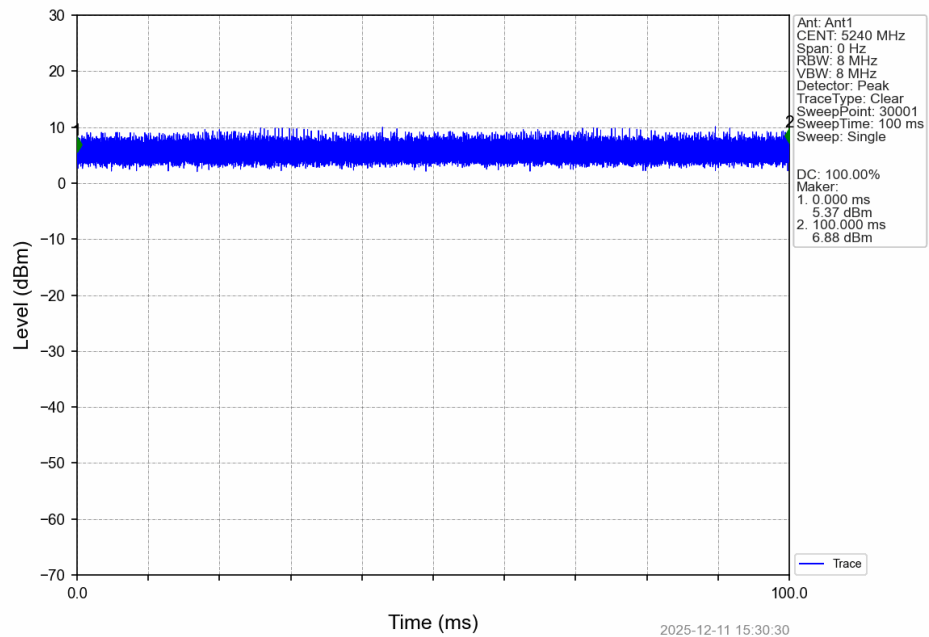
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



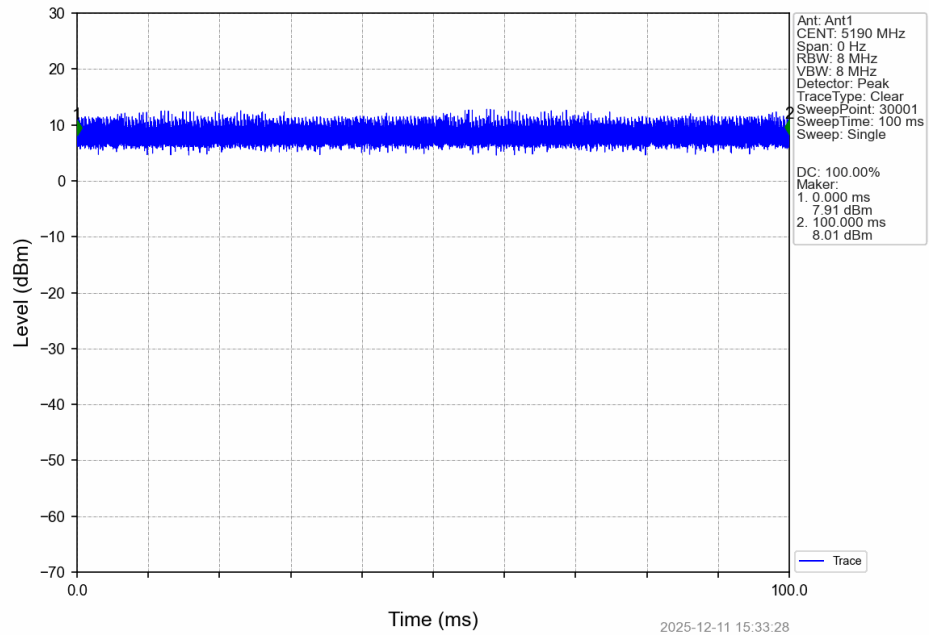
802.11n(HT20) MCH 5200MHz Ant1 NTN



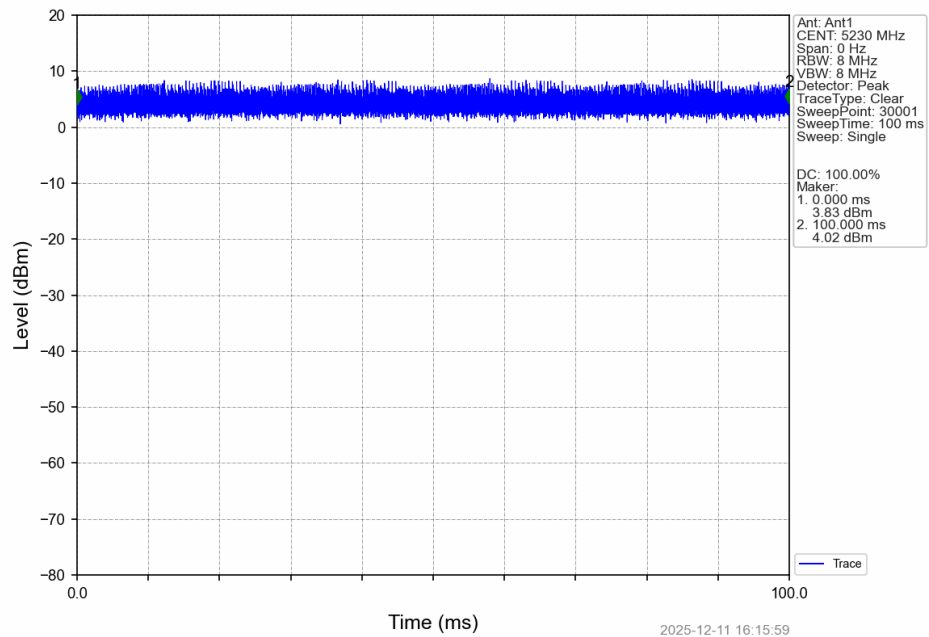
802.11n(HT20)_HCH_5240MHz_Ant1_NTN



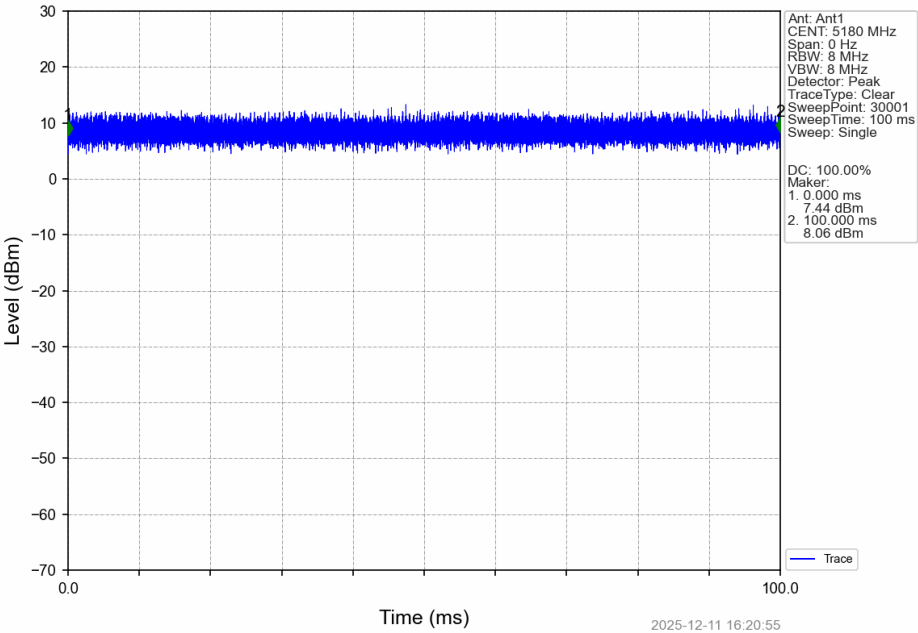
802.11n(HT40) LCH 5190MHz Ant1 NTN



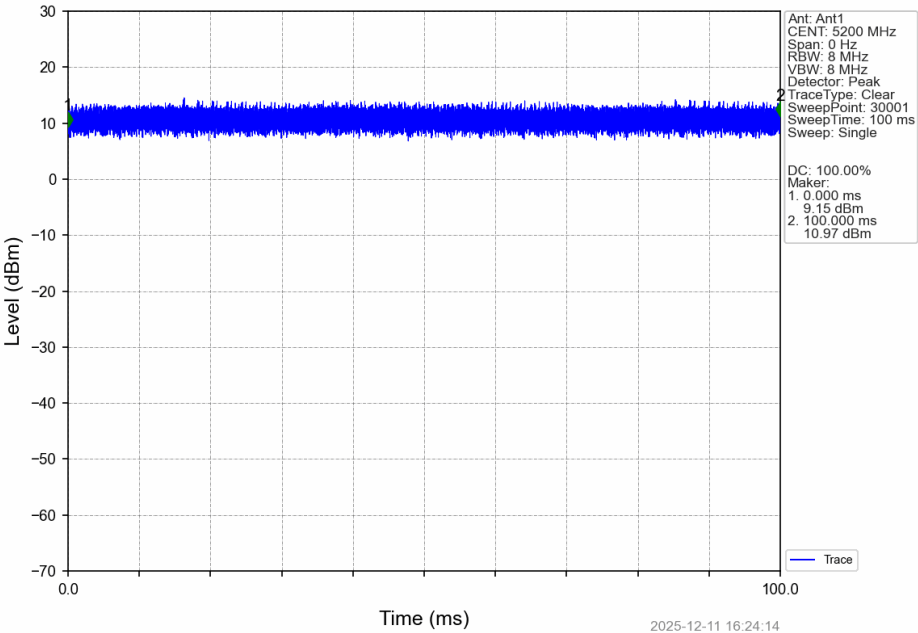
802.11n(HT40)_HCH_5230MHz_Ant1_NTN



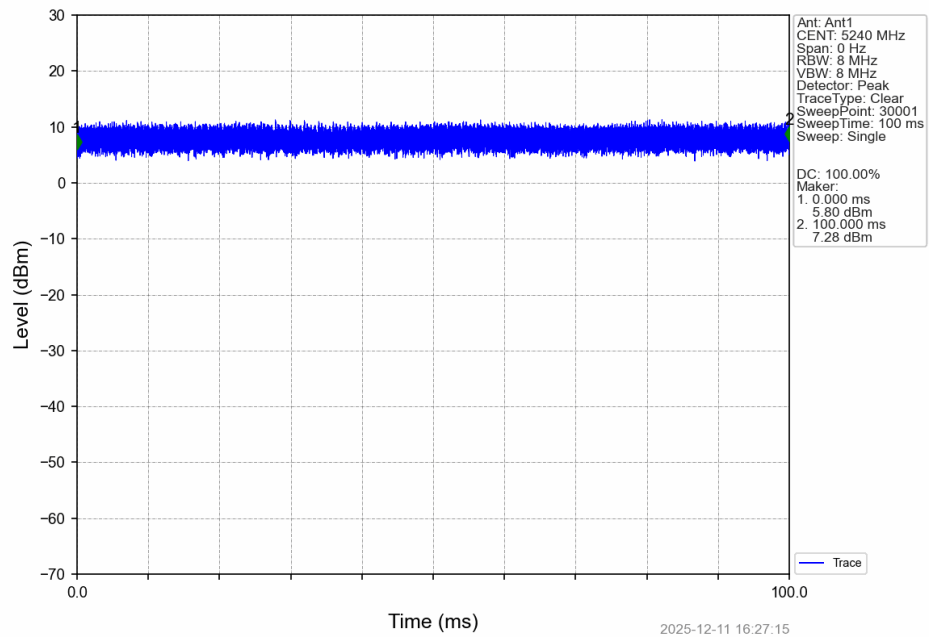
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



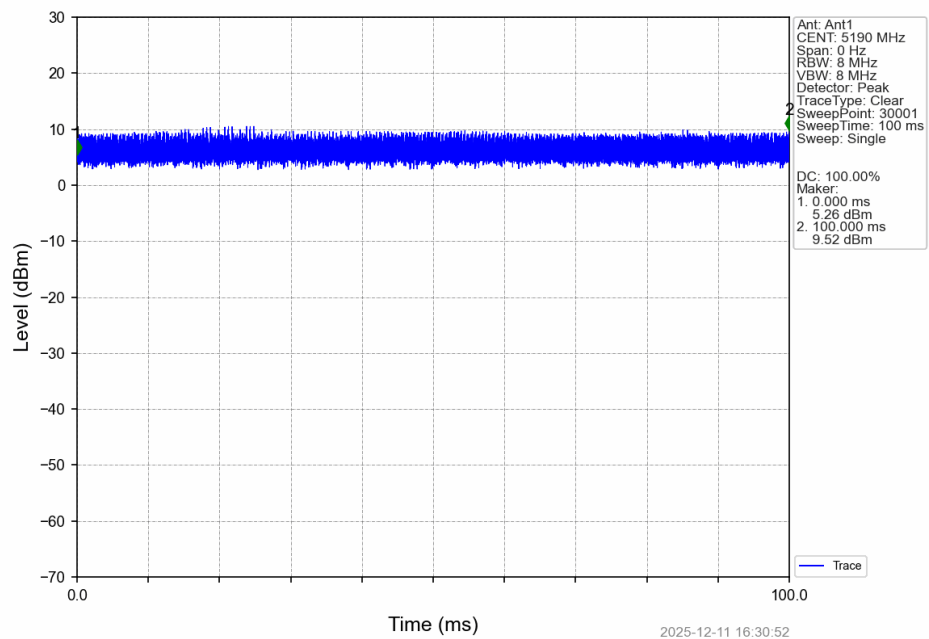
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



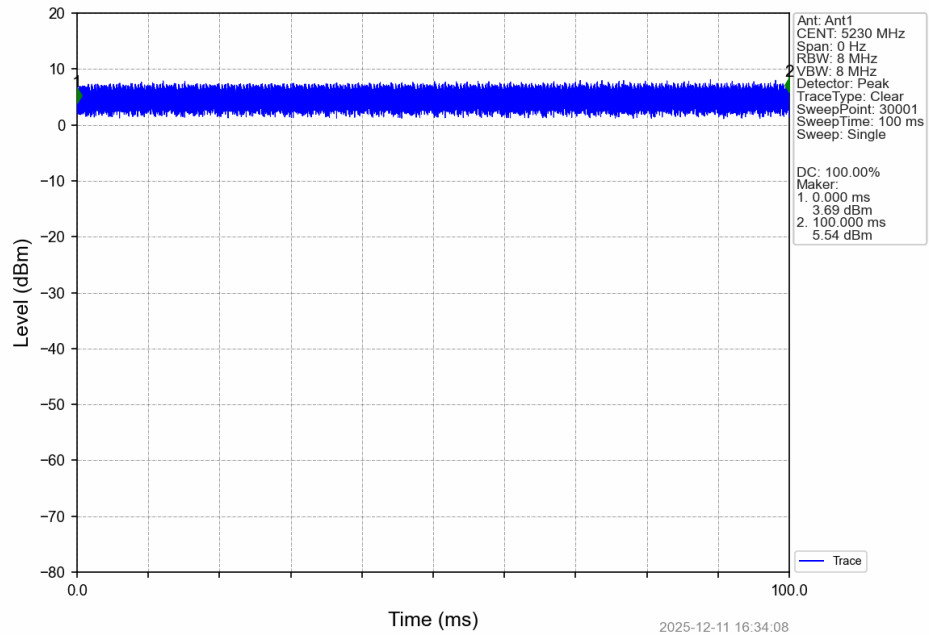
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



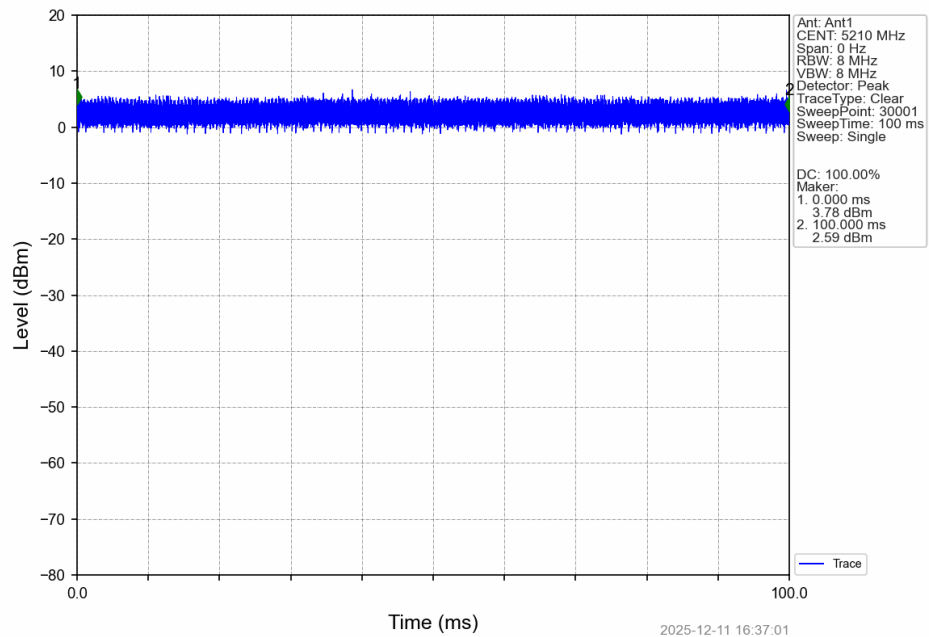
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTN



802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

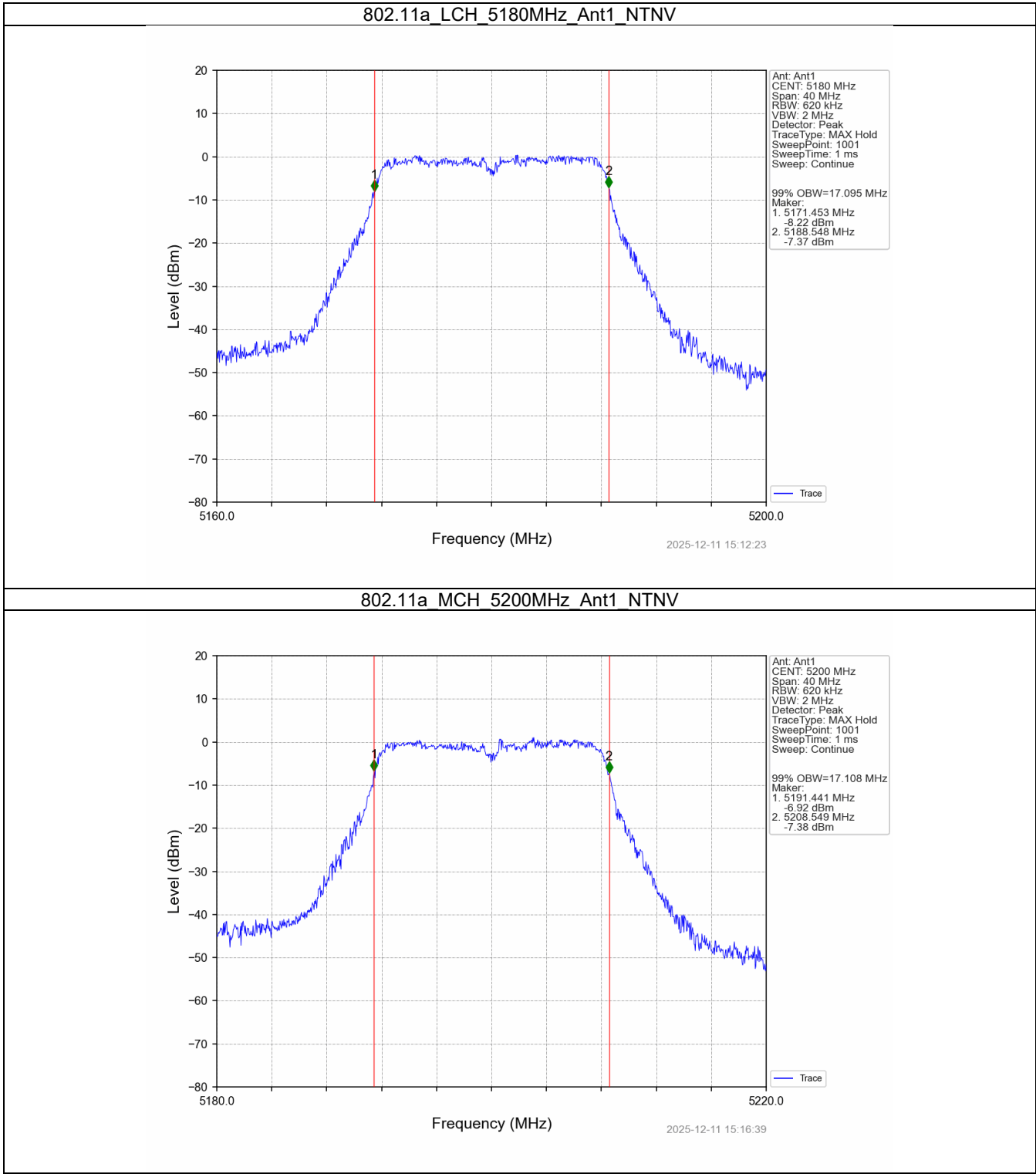
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.095	/	Pass
		5200	1	17.108	/	Pass
		5240	1	17.053	/	Pass
802.11n (HT20)	SISO	5180	1	17.926	/	Pass
		5200	1	17.962	/	Pass
		5240	1	17.986	/	Pass
802.11n (HT40)	SISO	5190	1	36.572	/	Pass
		5230	1	36.579	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.096	/	Pass
		5200	1	18.130	/	Pass
		5240	1	18.092	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.411	/	Pass
		5230	1	36.503	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.165	/	Pass

2.1.2 26dB BW

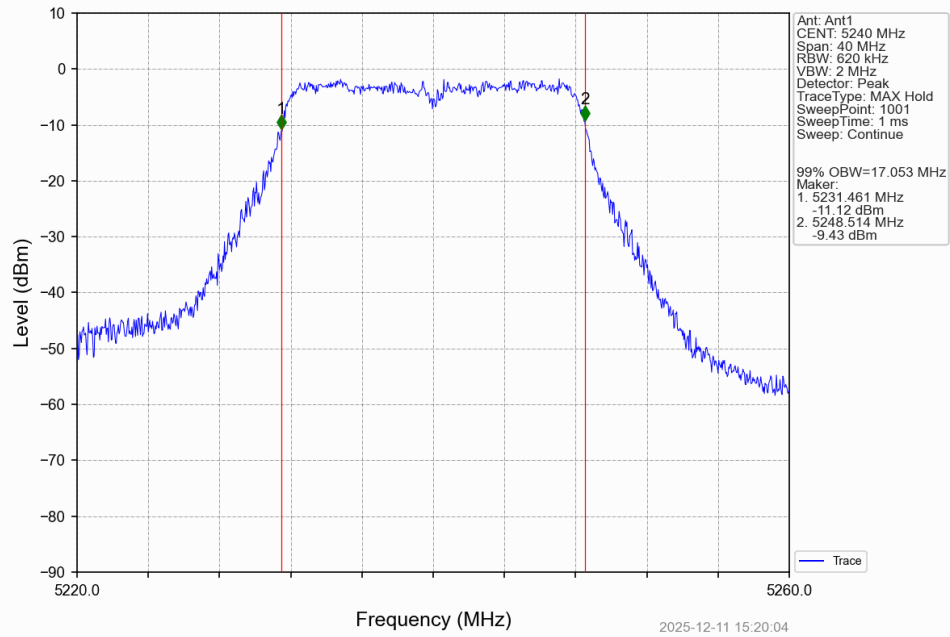
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	21.189	/	Pass
		5200	1	20.881	/	Pass
		5240	1	21.035	/	Pass
802.11n (HT20)	SISO	5180	1	20.808	/	Pass
		5200	1	21.085	/	Pass
		5240	1	21.186	/	Pass
802.11n (HT40)	SISO	5190	1	41.586	/	Pass
		5230	1	42.423	/	Pass
802.11ac (VHT20)	SISO	5180	1	21.590	/	Pass
		5200	1	21.707	/	Pass
		5240	1	21.837	/	Pass
802.11ac (VHT40)	SISO	5190	1	41.529	/	Pass
		5230	1	41.419	/	Pass
802.11ac (VHT80)	SISO	5210	1	81.626	/	Pass

2.2 Test Graph

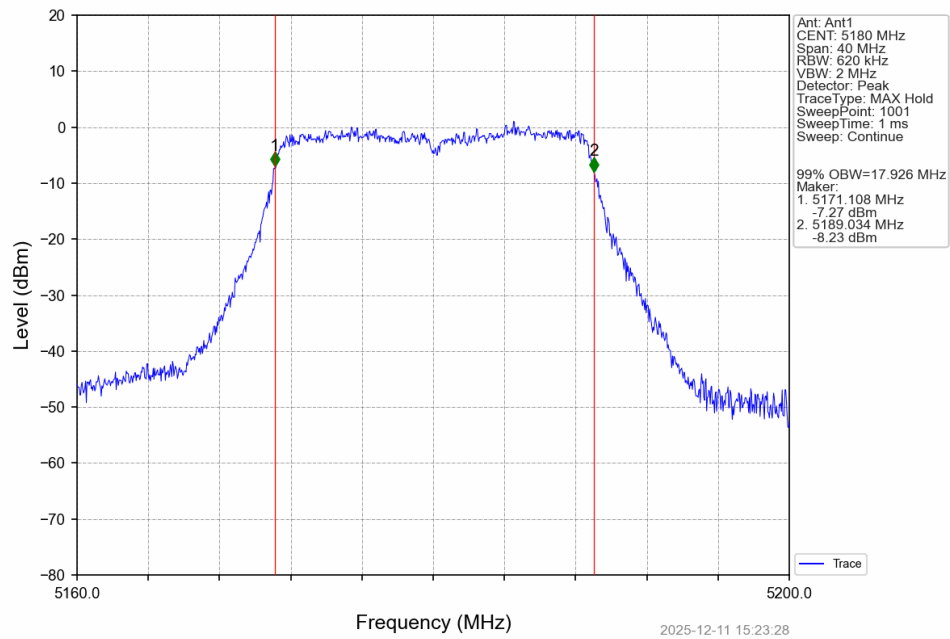
2.2.1 OBW



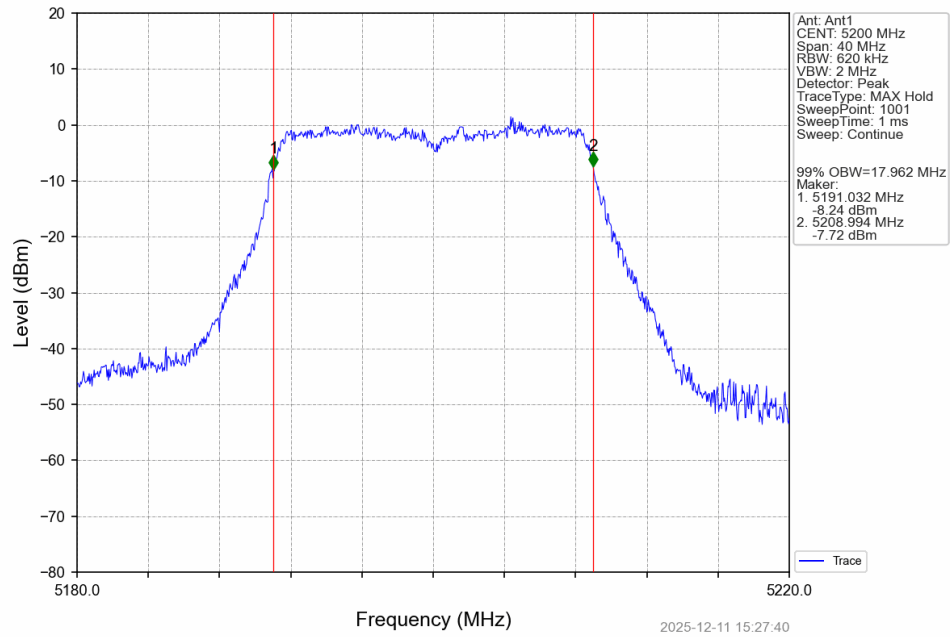
802.11a_HCH_5240MHz_Ant1_NTNV



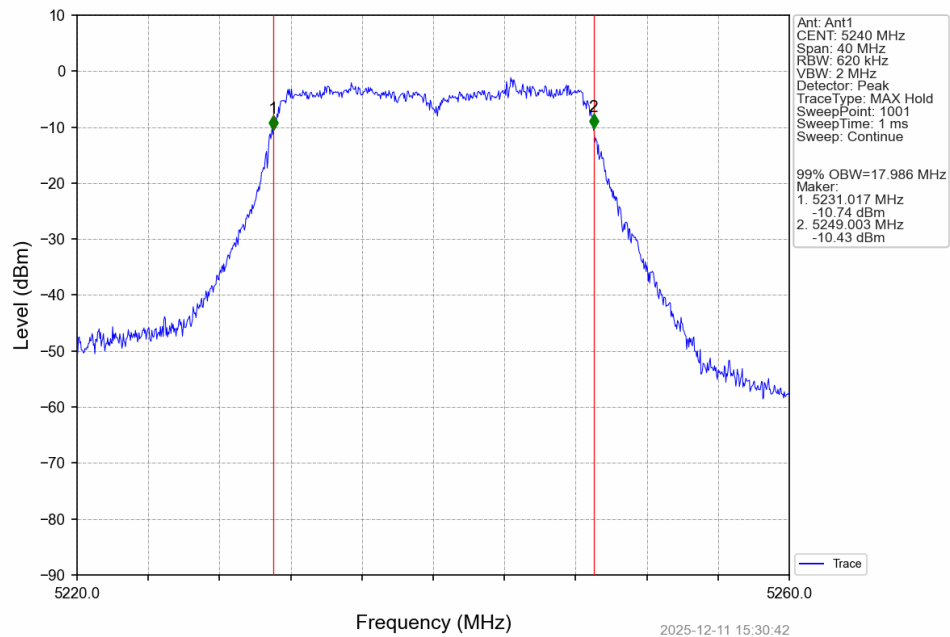
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



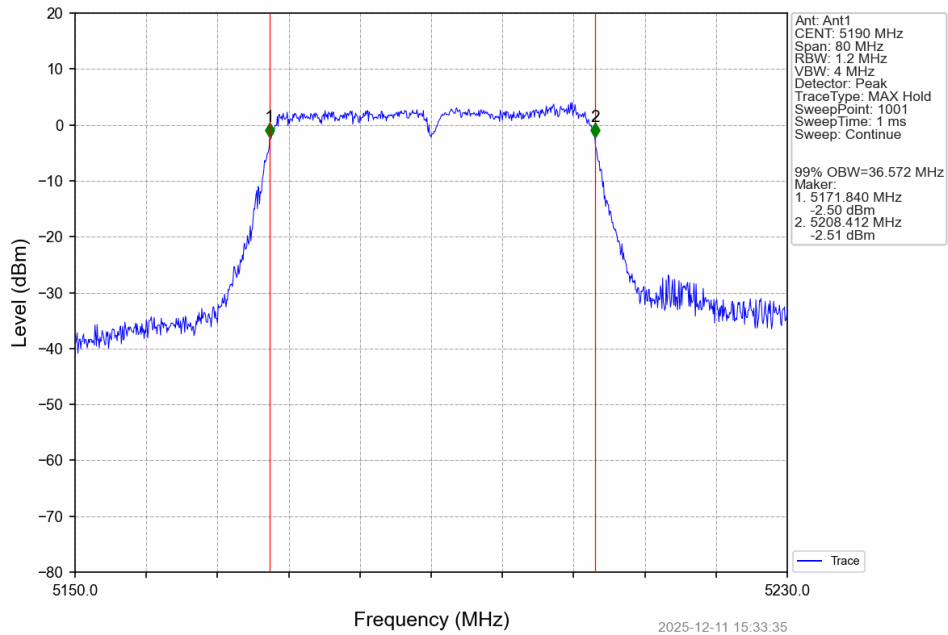
802.11n(HT20) MCH 5200MHz Ant1 NTN



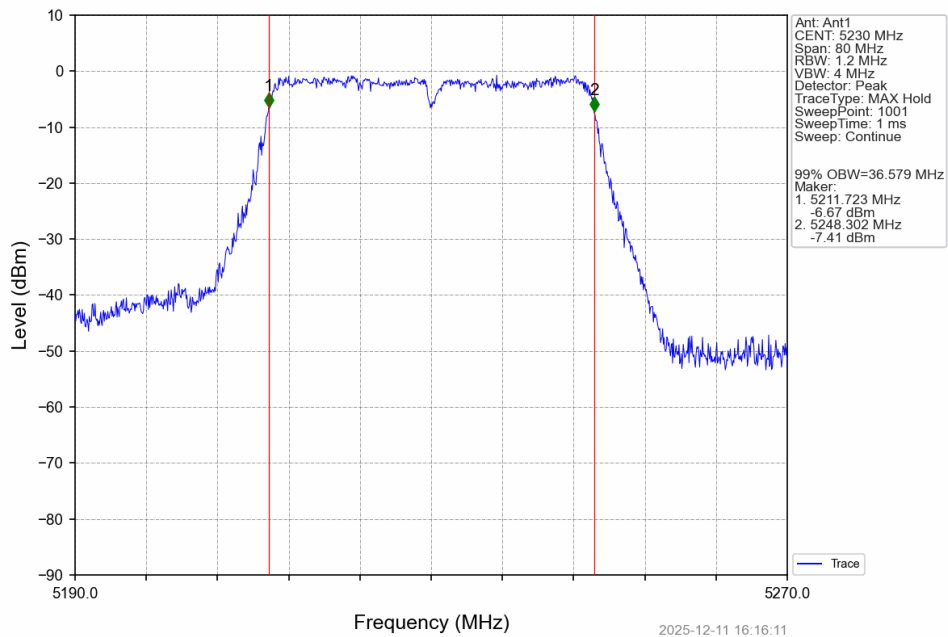
802.11n(HT20)_HCH_5240MHz_Ant1 NTN



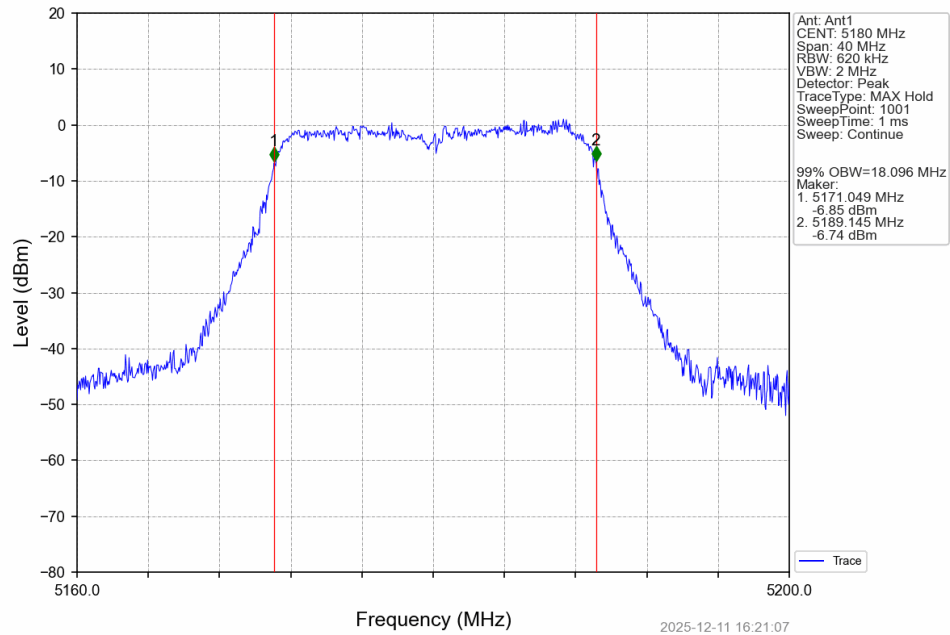
802.11n(HT40) LCH 5190MHz Ant1 NTN



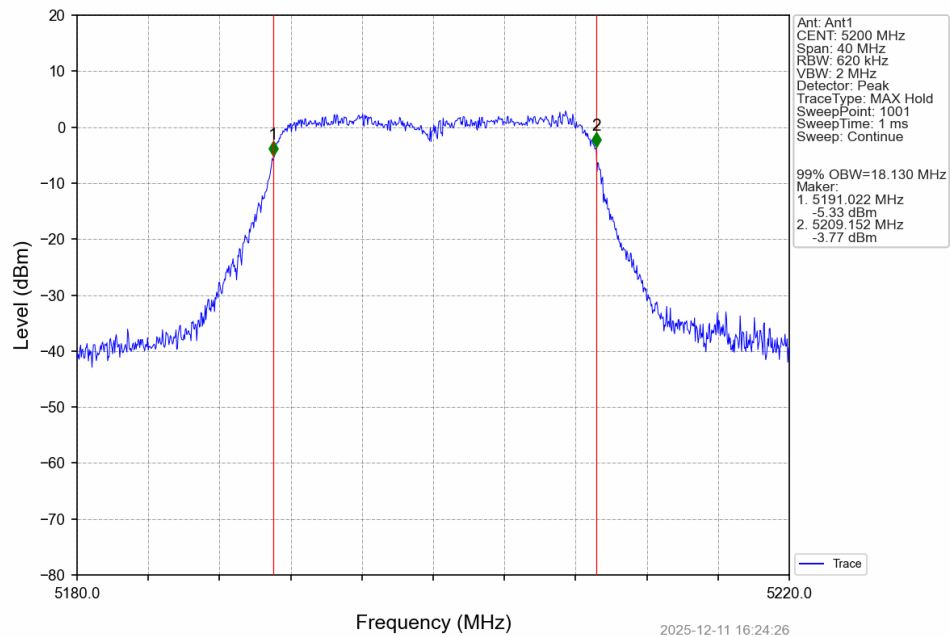
802.11n(HT40)_HCH 5230MHz Ant1 NTN



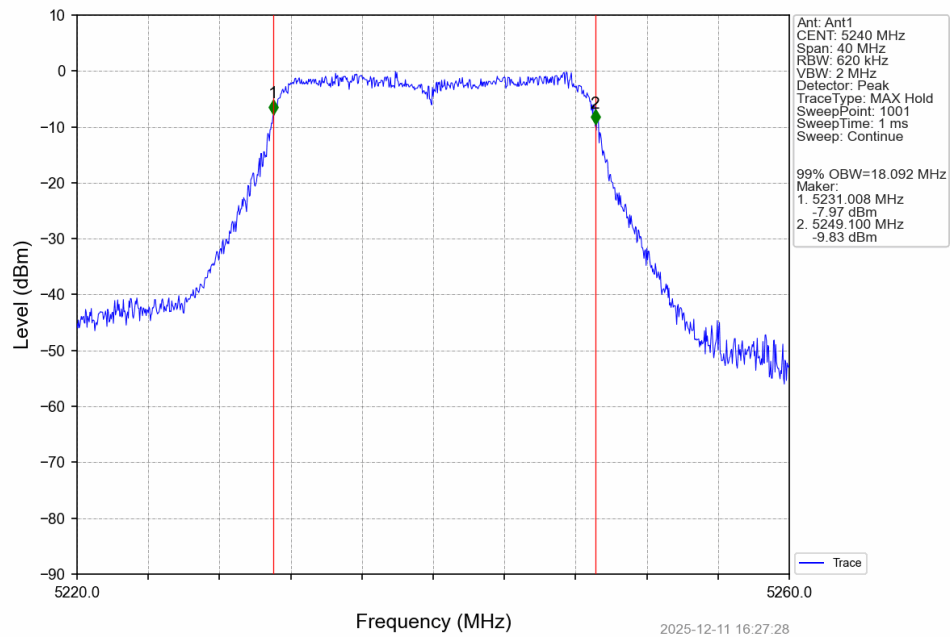
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



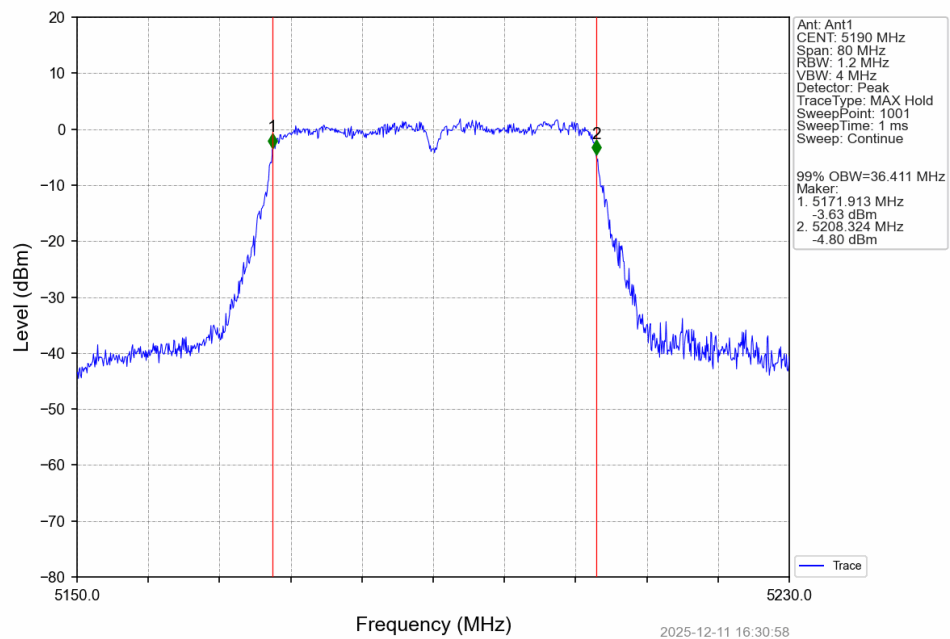
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



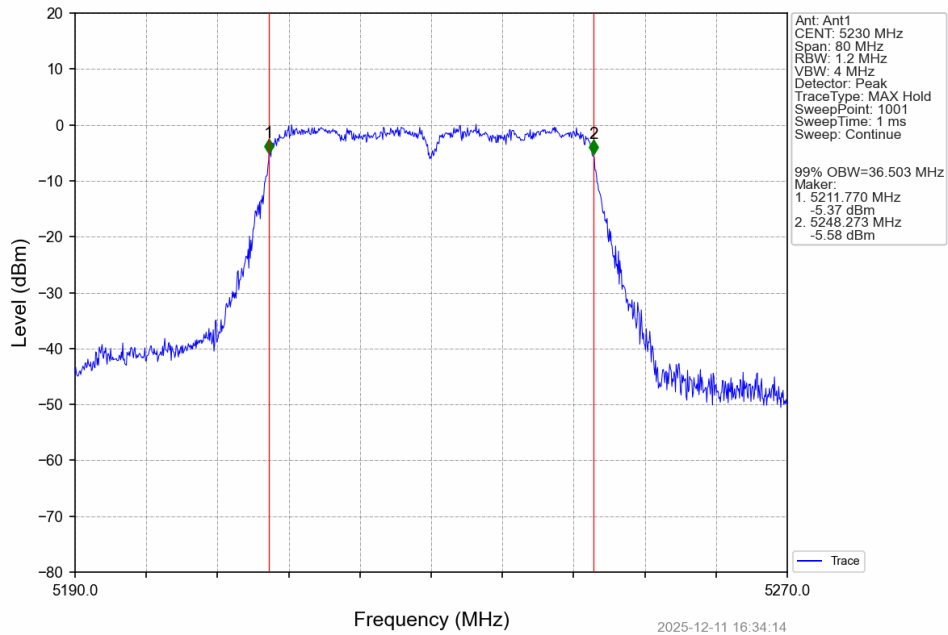
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



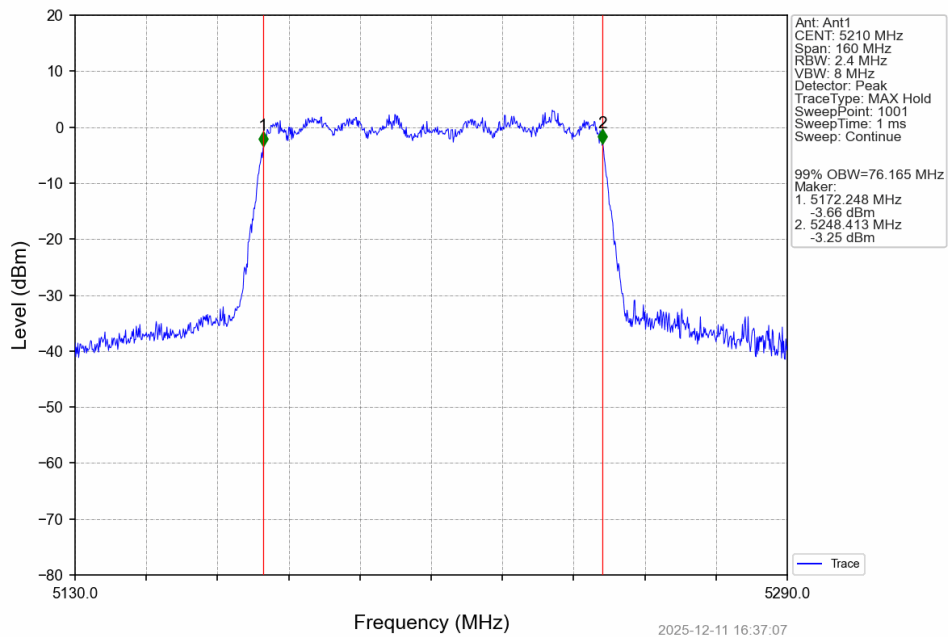
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTN



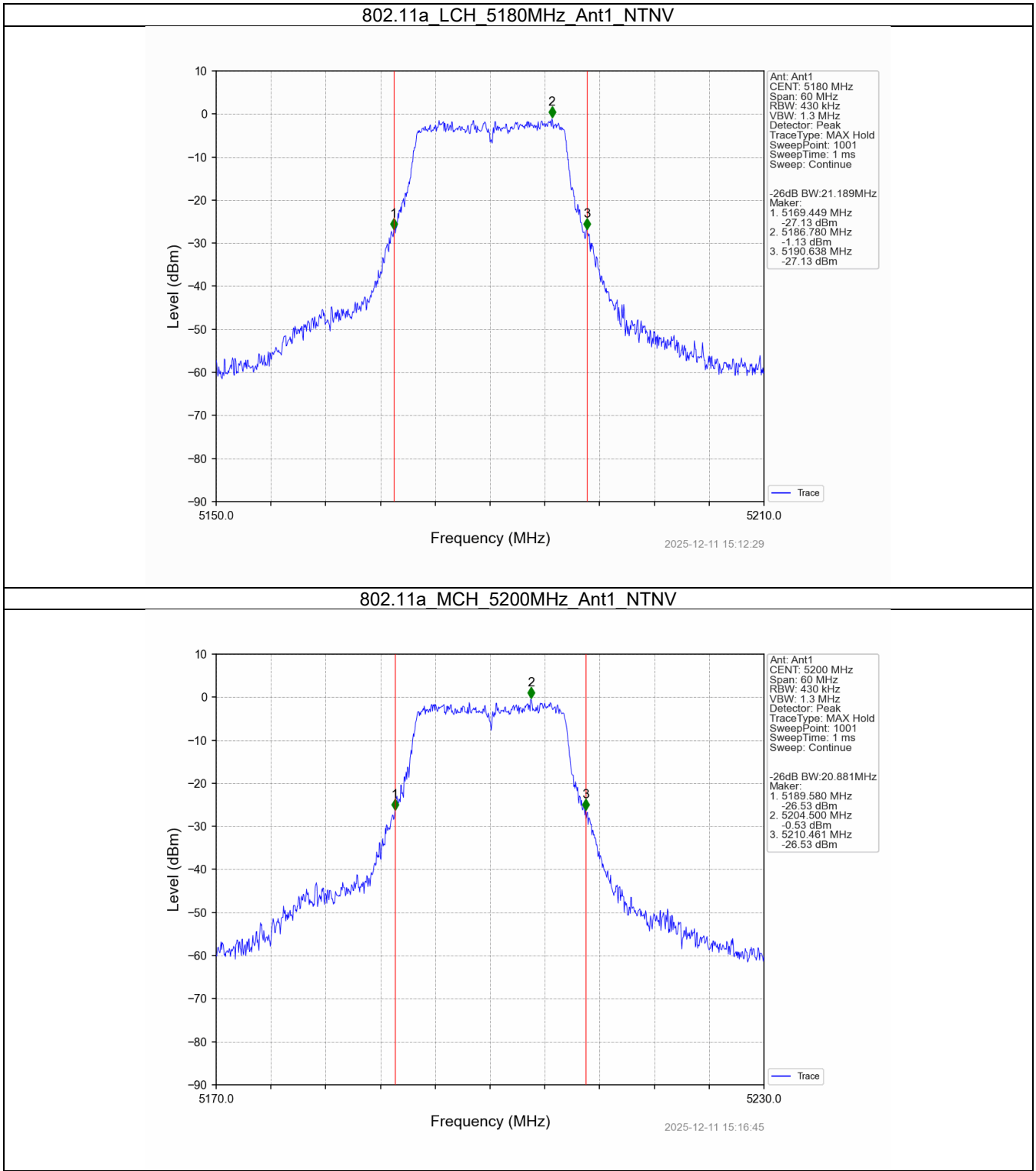
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



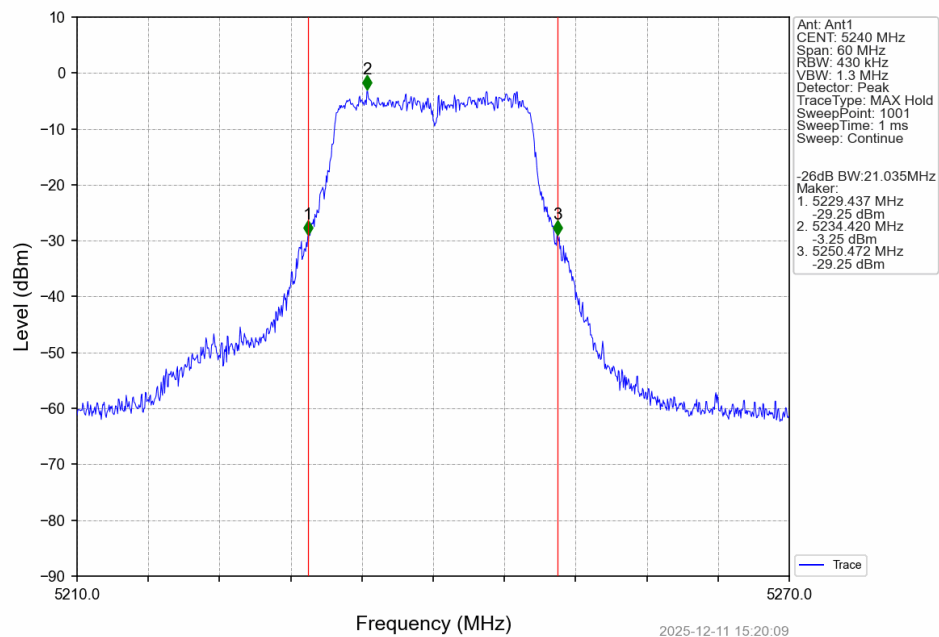
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTN



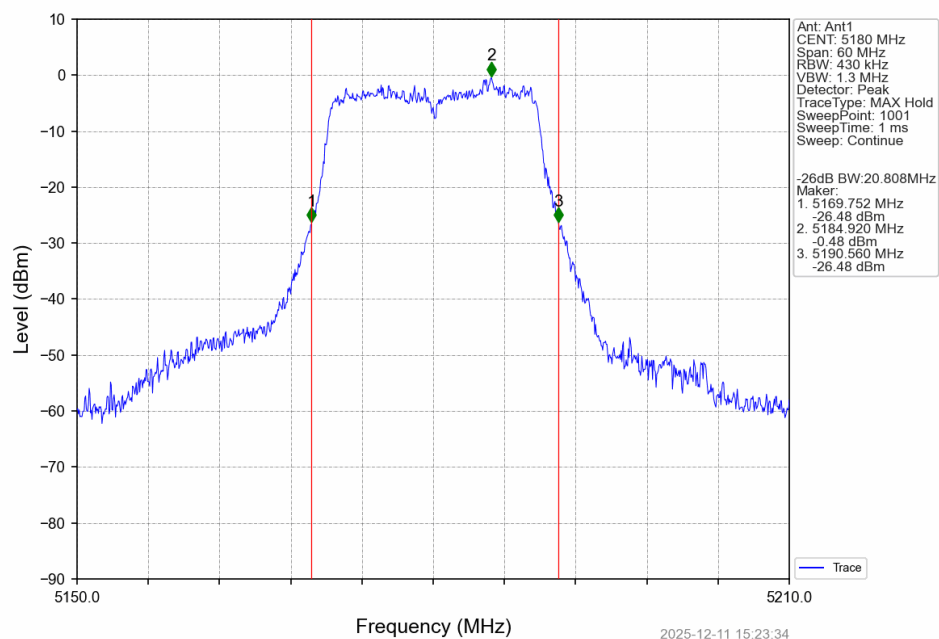
2.2.2 26dB BW



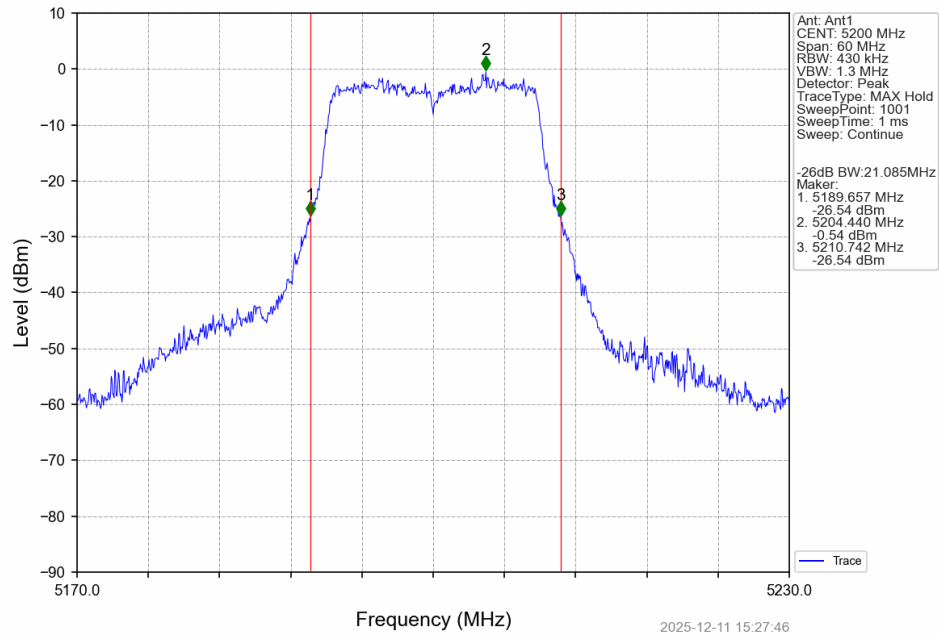
802.11a_HCH_5240MHz_Ant1_NTNV



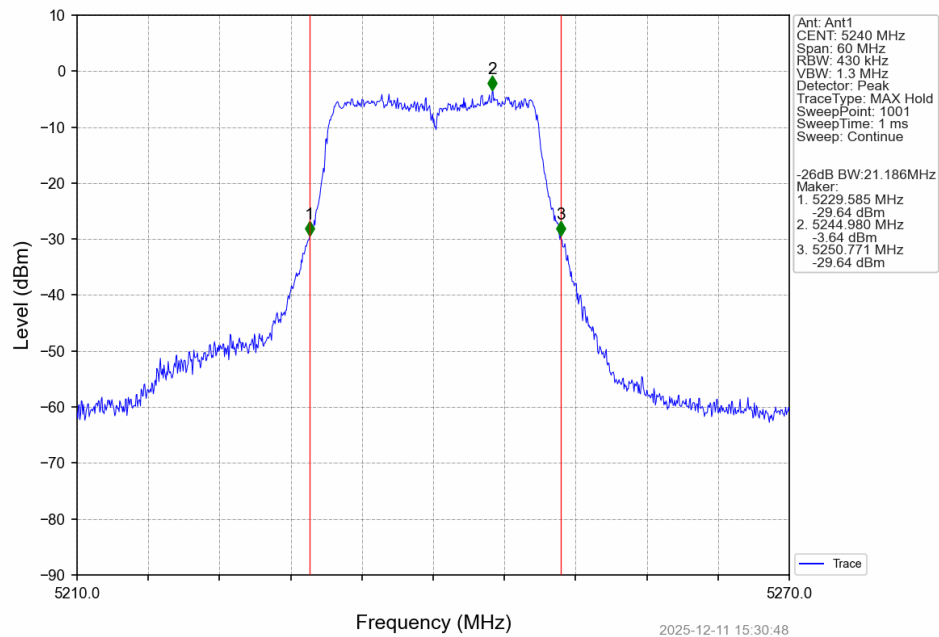
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



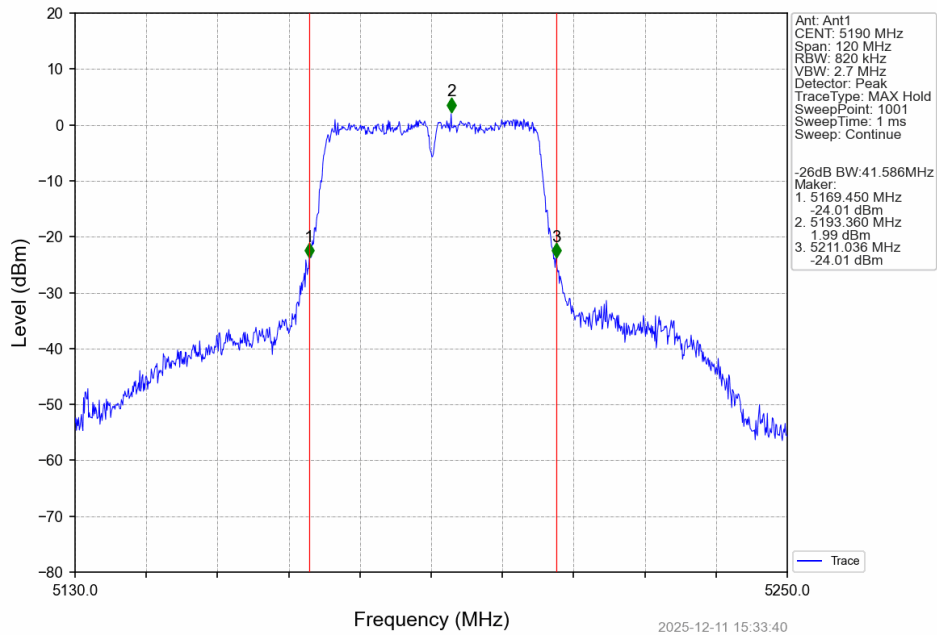
802.11n(HT20) MCH 5200MHz Ant1 NTN



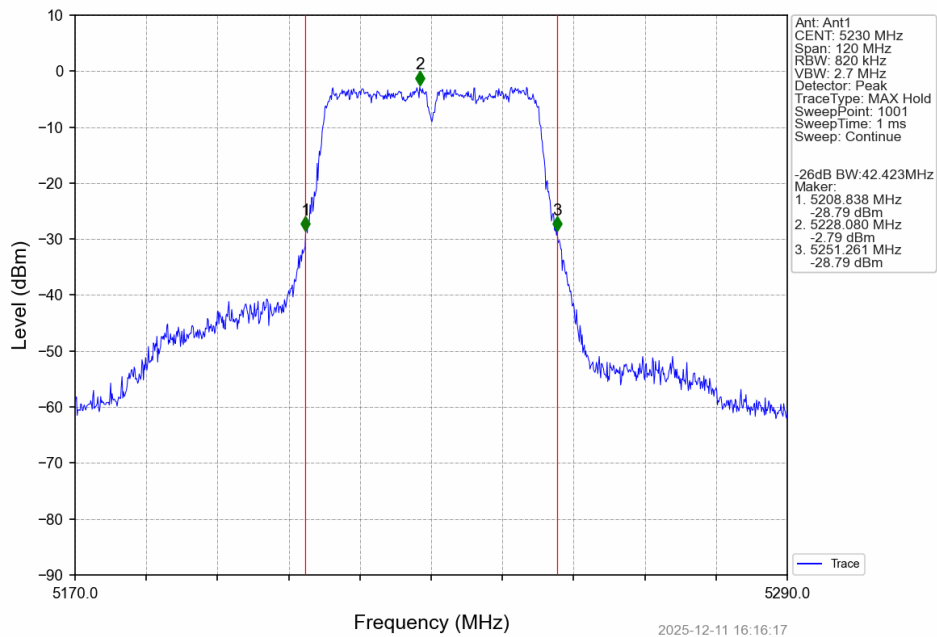
802.11n(HT20)_HCH_5240MHz_Ant1_NTN



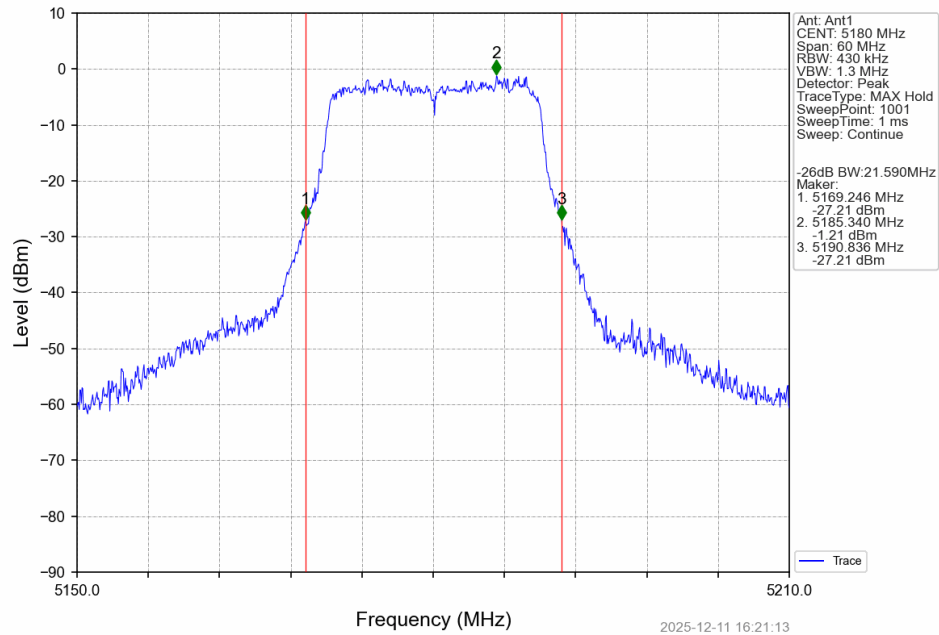
802.11n(HT40) LCH 5190MHz Ant1 NTN



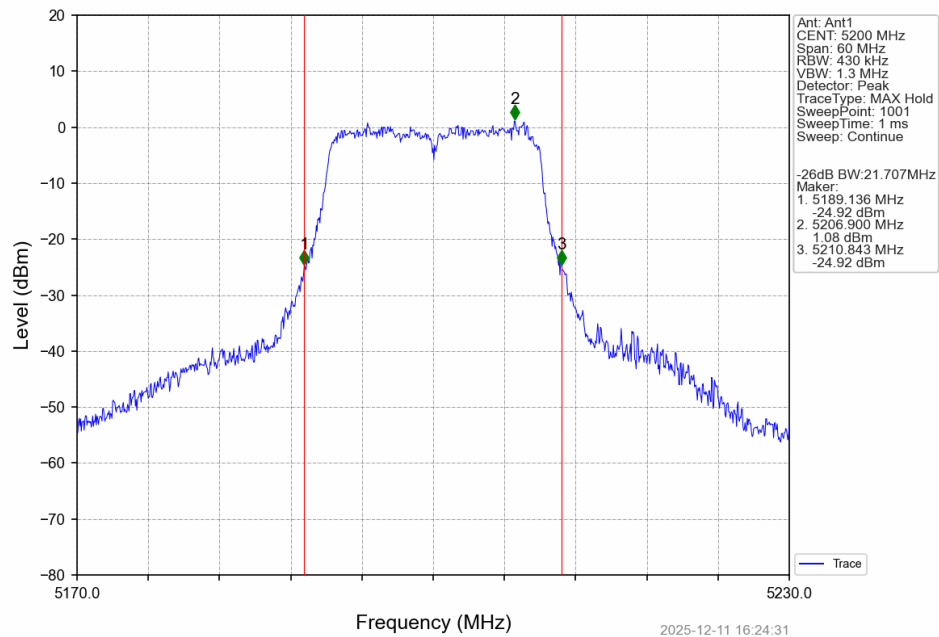
802.11n(HT40)_HCH_5230MHz_Ant1_NTN



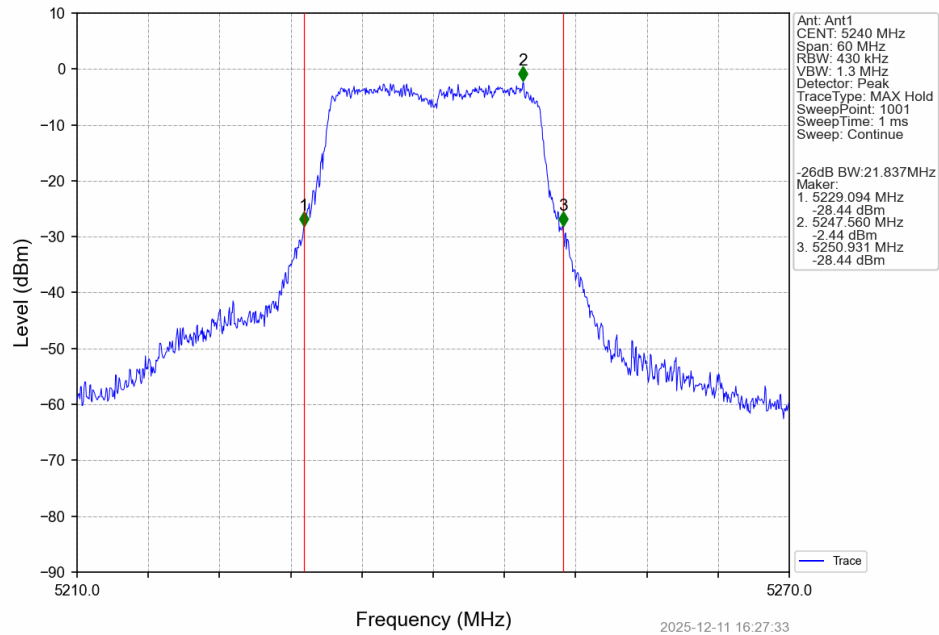
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



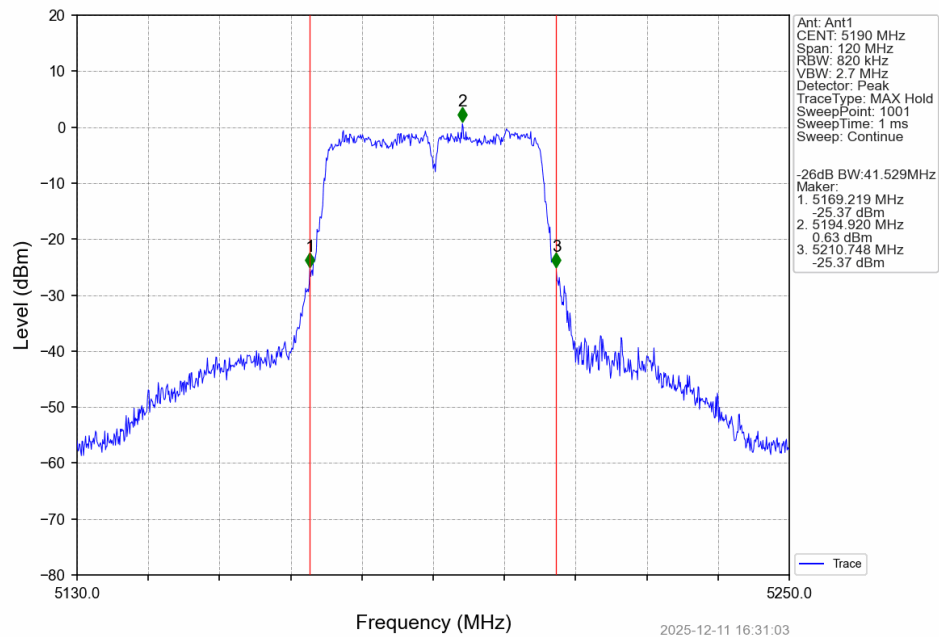
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



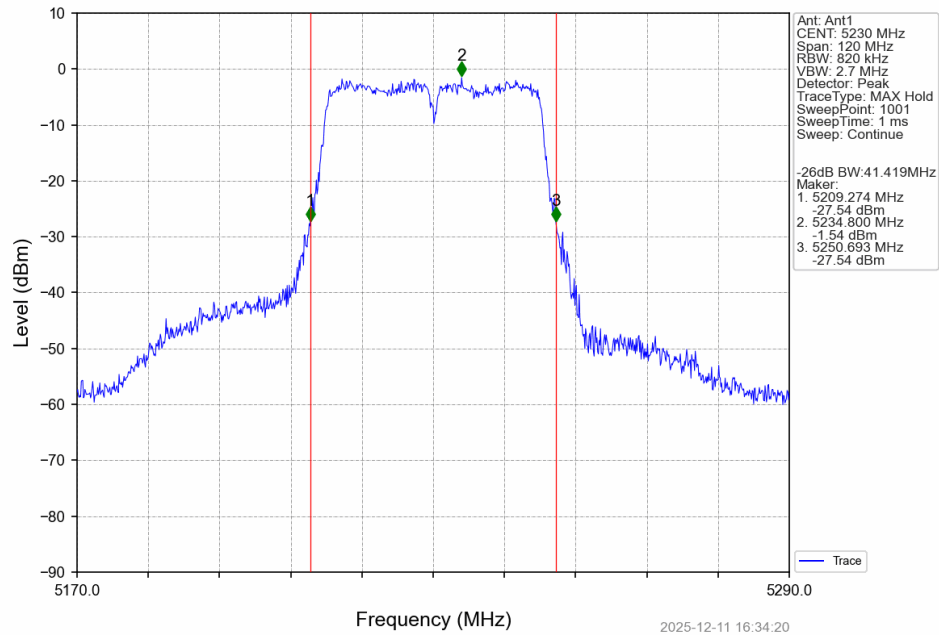
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



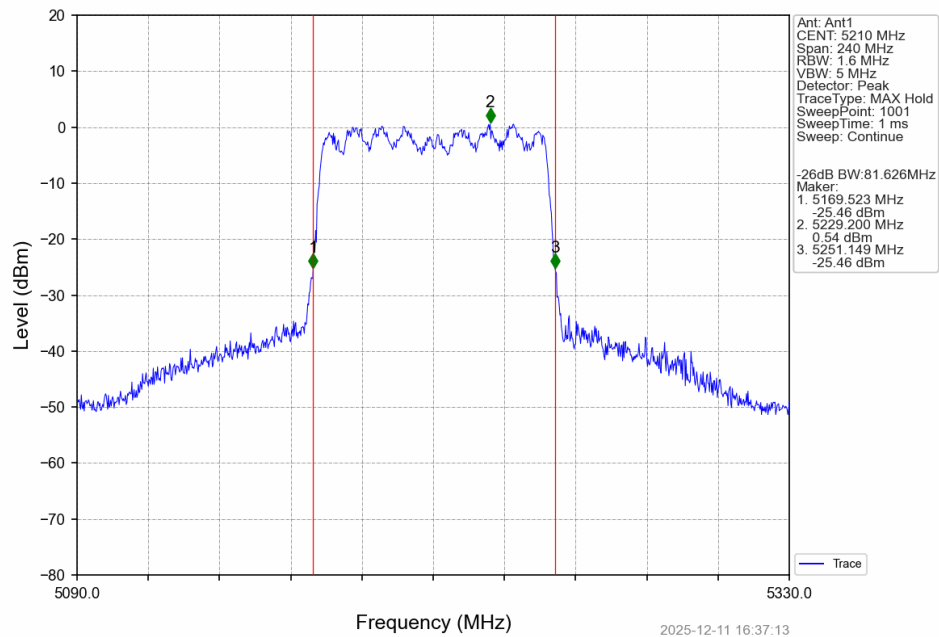
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTN



802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT80)_MCH_5210MHz_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	5.83	<=23.98	Pass
		5200	5.94	<=23.98	Pass
		5240	3.42	<=23.98	Pass
802.11n (HT20)	SISO	5180	5.52	<=23.98	Pass
		5200	5.64	<=23.98	Pass
		5240	3.18	<=23.98	Pass
802.11n (HT40)	SISO	5190	5.44	<=23.98	Pass
		5230	4.49	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	5.76	<=23.98	Pass
		5200	5.26	<=23.98	Pass
		5240	5.12	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	6.57	<=23.98	Pass
		5230	5.07	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	4.62	<=23.98	Pass

4. Maximum Power Spectral Density

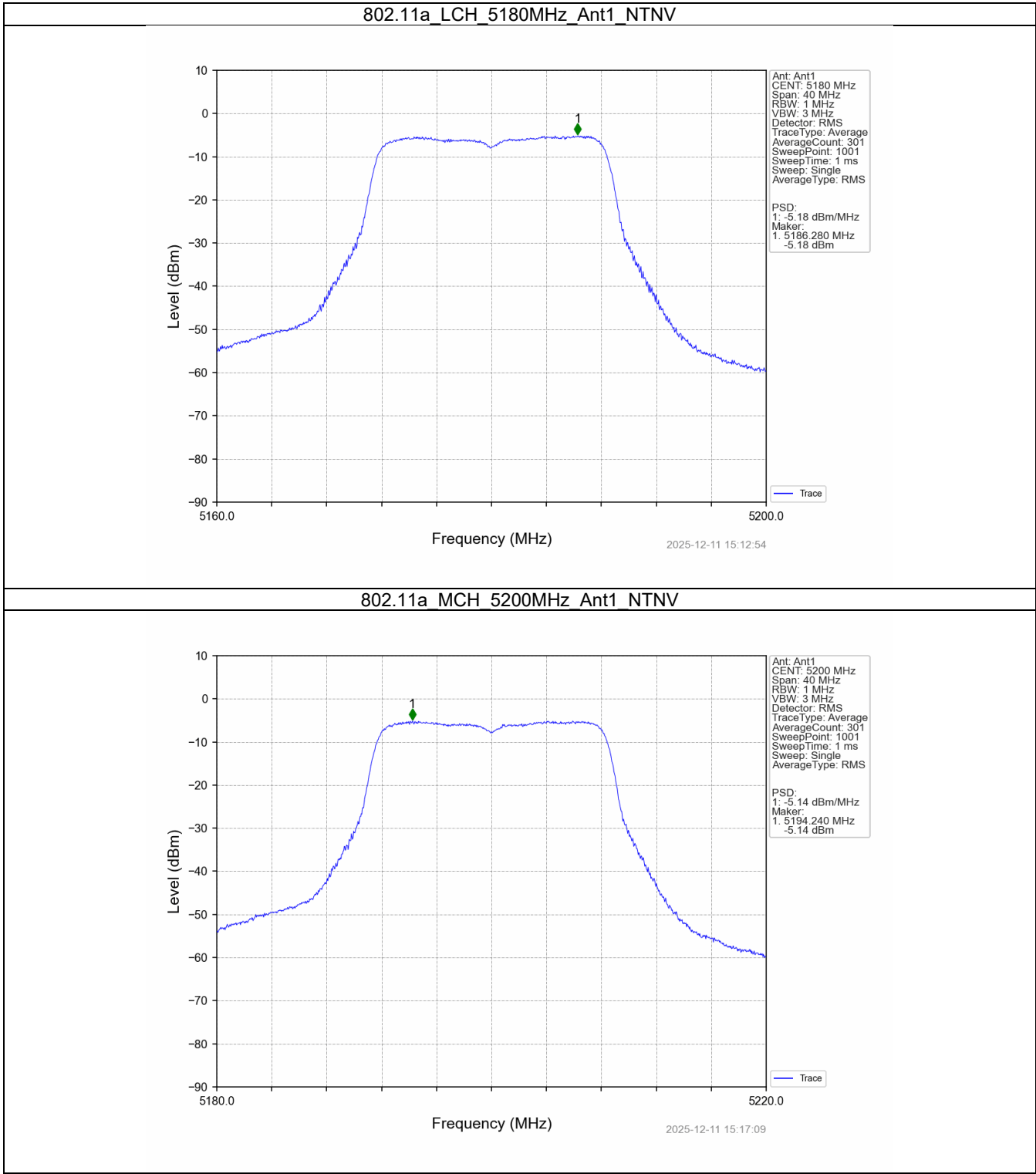
4.1 Test Result

4.1.1 PSD

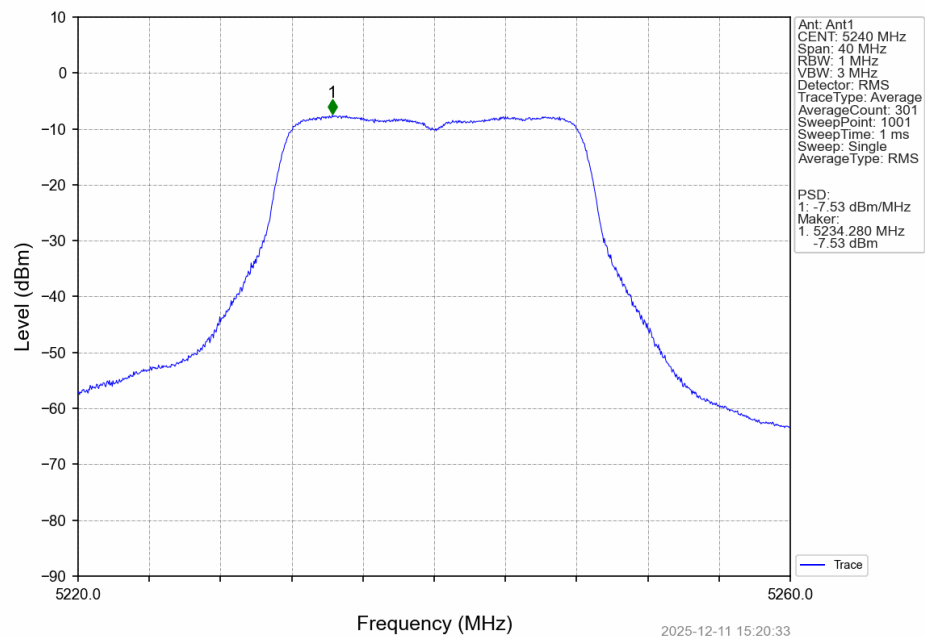
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-5.18	<=11	Pass
		5200	-5.14	<=11	Pass
		5240	-7.53	<=11	Pass
802.11n (HT20)	SISO	5180	-5.61	<=11	Pass
		5200	-5.64	<=11	Pass
		5240	-7.97	<=11	Pass
802.11n (HT40)	SISO	5190	-5.73	<=11	Pass
		5230	-9.90	<=11	Pass
802.11ac (VHT20)	SISO	5180	-5.34	<=11	Pass
		5200	-3.30	<=11	Pass
		5240	-5.99	<=11	Pass
802.11ac (VHT40)	SISO	5190	-7.28	<=11	Pass
		5230	-9.23	<=11	Pass
802.11ac (VHT80)	SISO	5210	-9.71	<=11	Pass

4.2 Test Graph

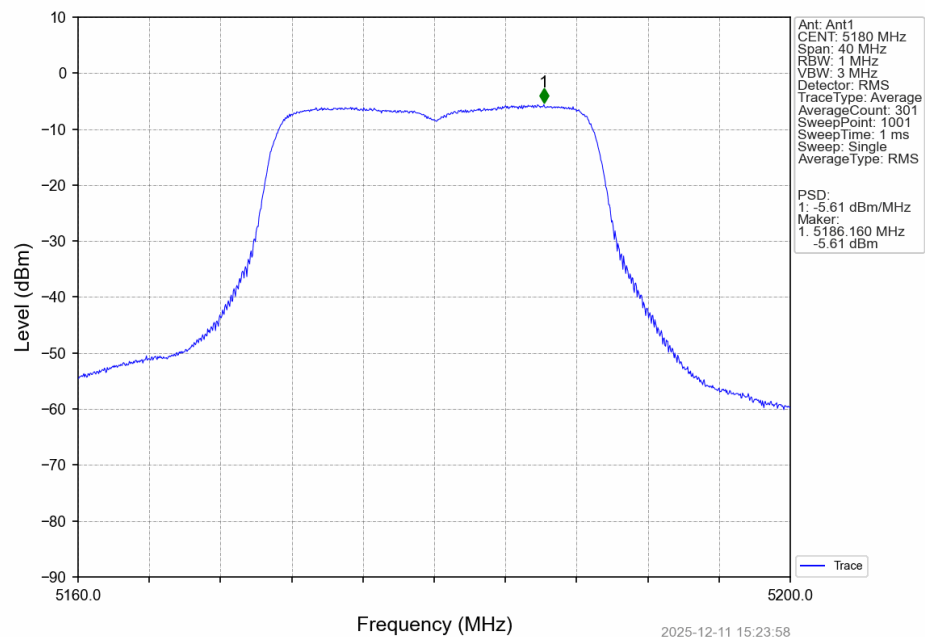
4.2.1 PSD



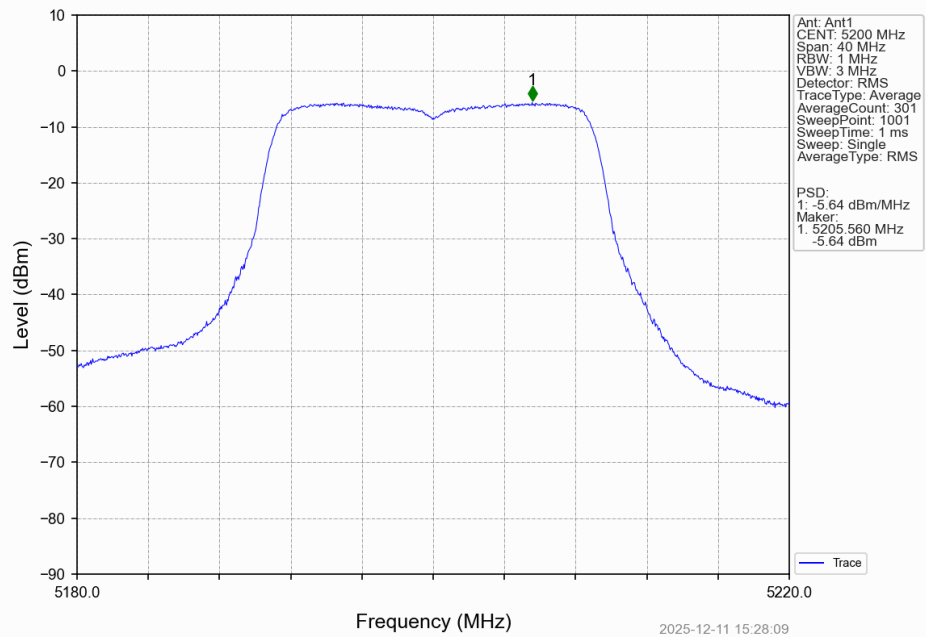
802.11a_HCH_5240MHz_Ant1_NTNV



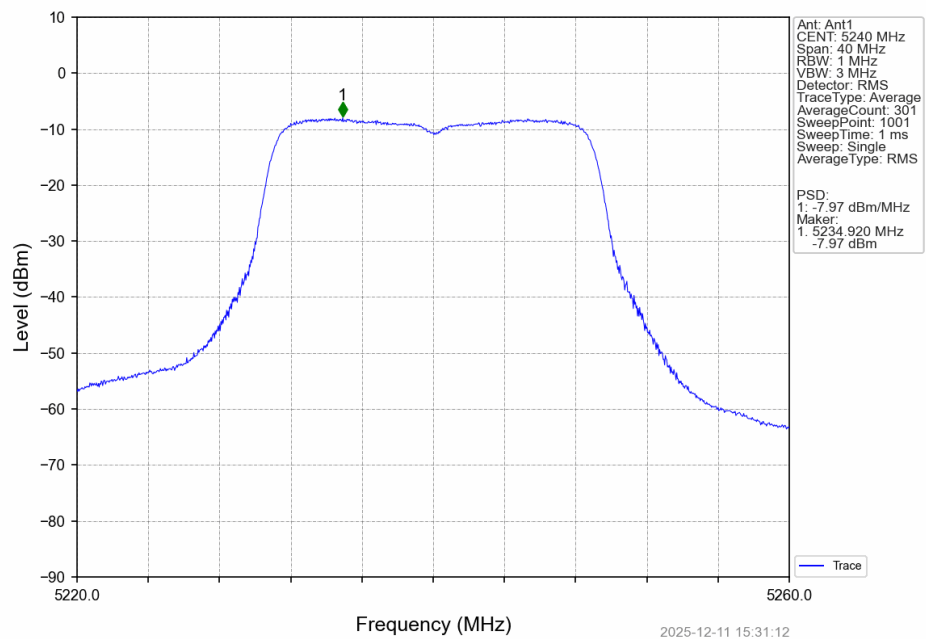
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



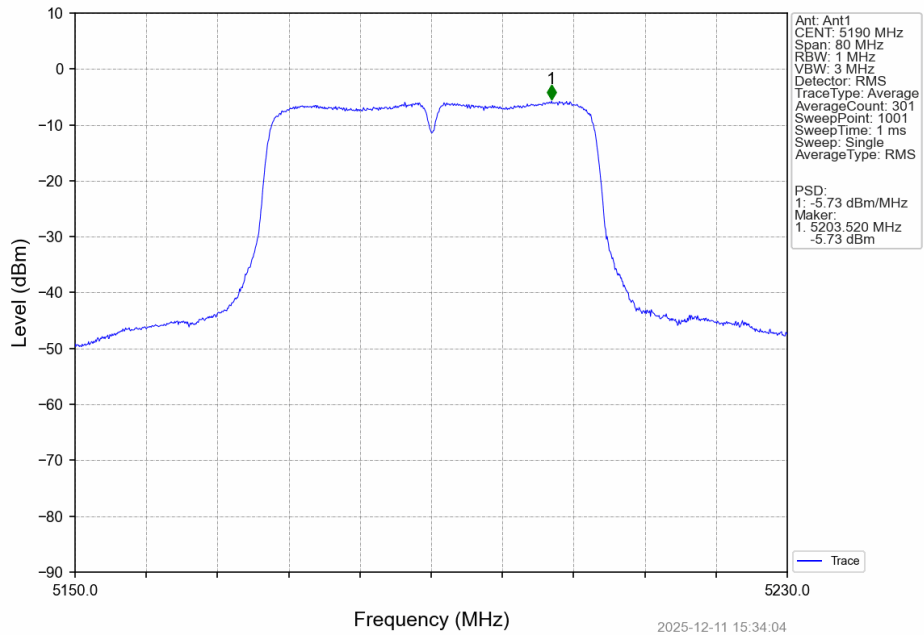
802.11n(HT20) MCH 5200MHz Ant1 NTN



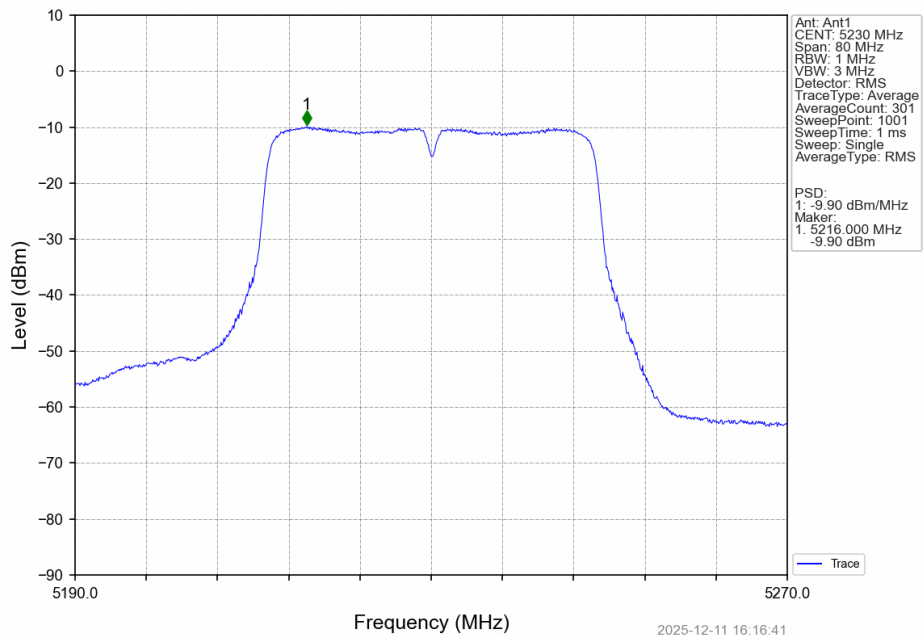
802.11n(HT20)_HCH_5240MHz_Ant1_NTN



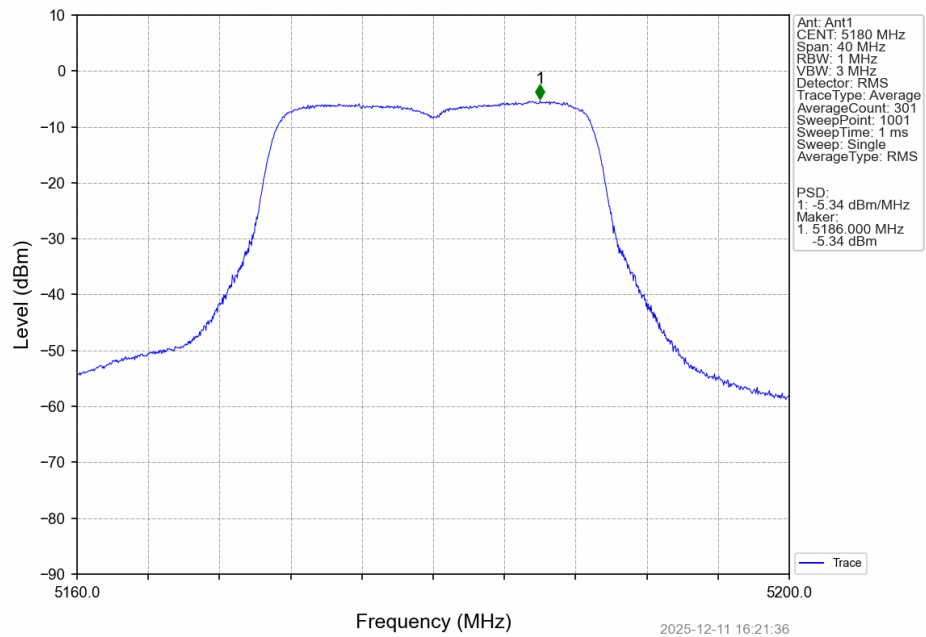
802.11n(HT40) LCH 5190MHz Ant1 NTN



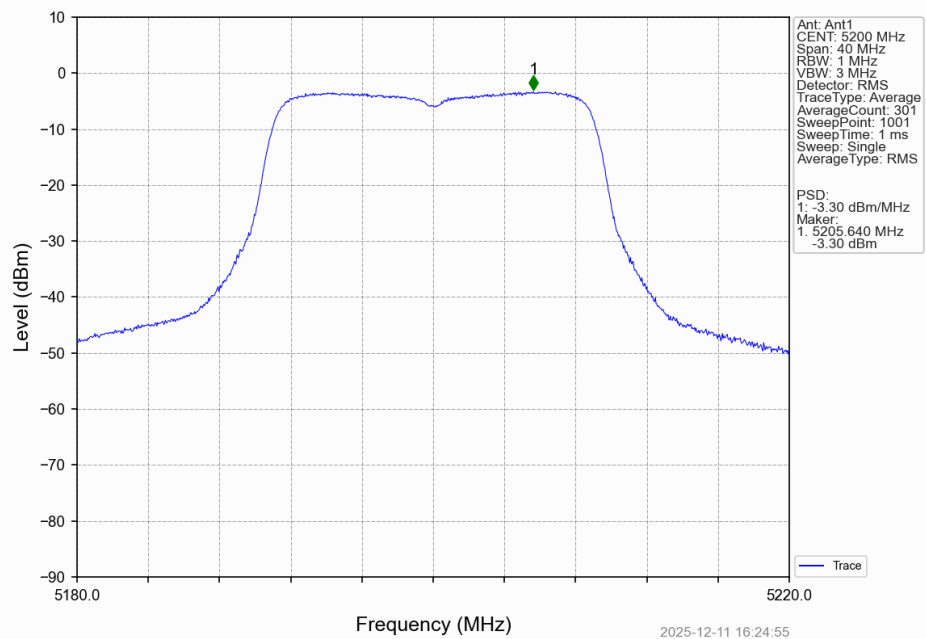
802.11n(HT40)_HCH_5230MHz_Ant1_NTN



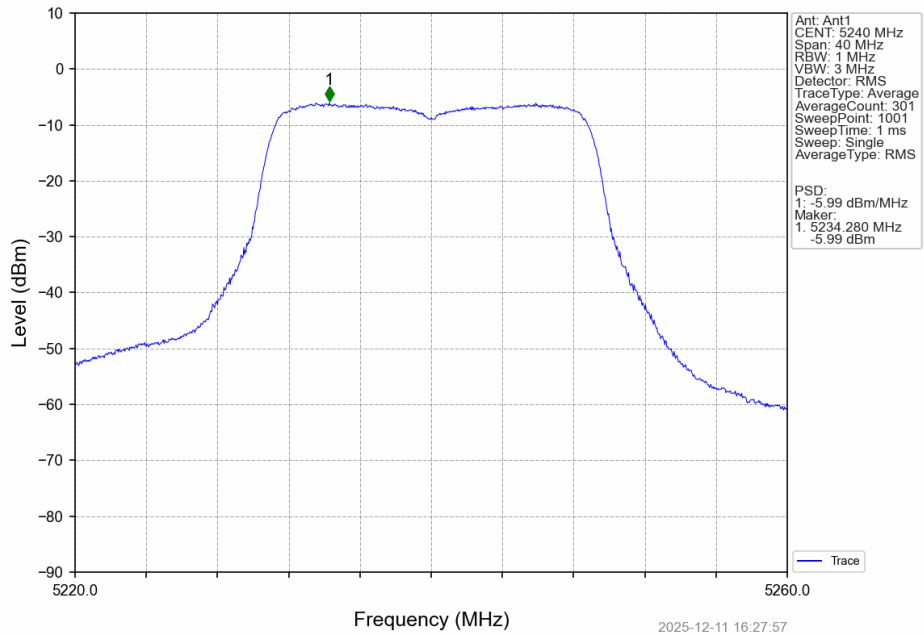
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



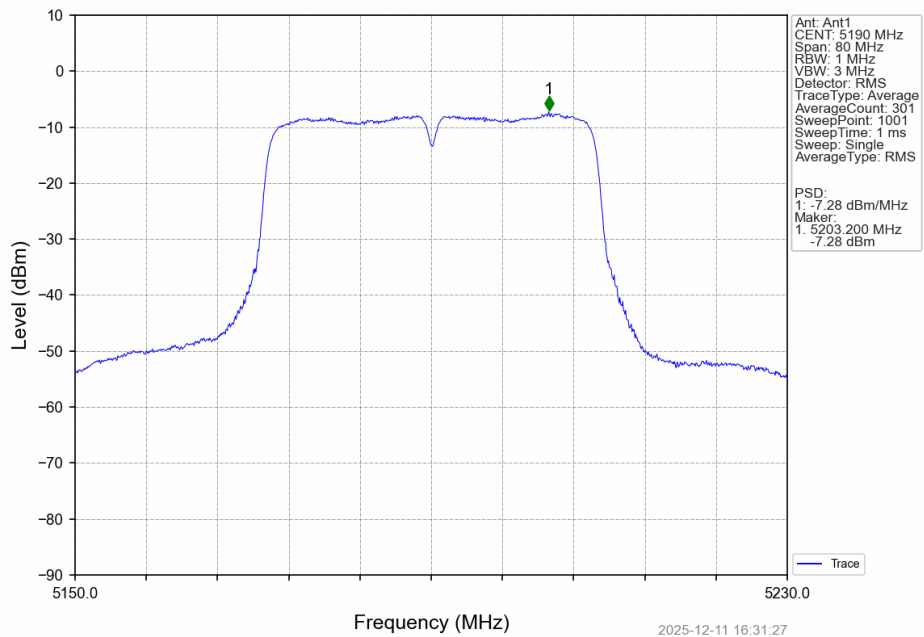
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



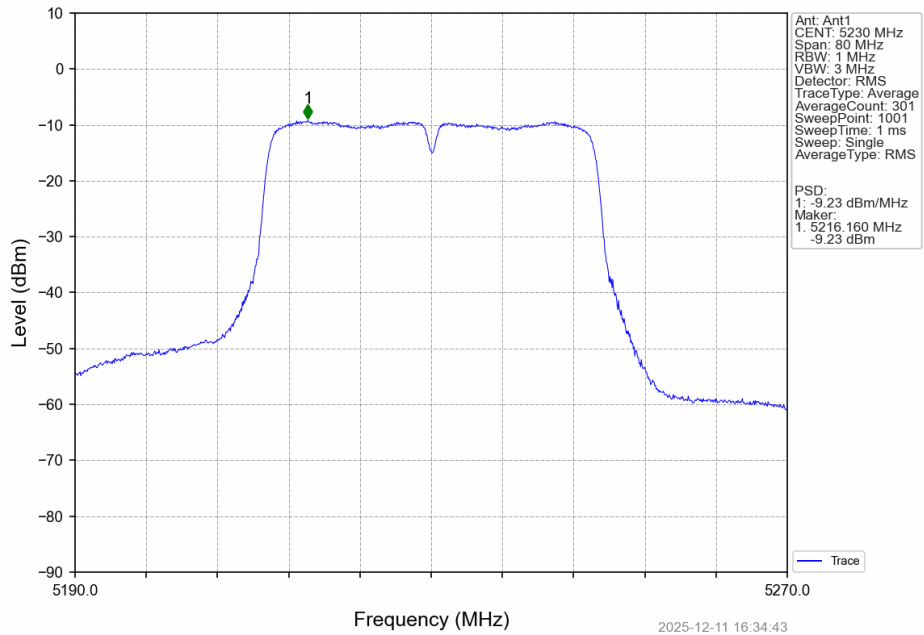
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



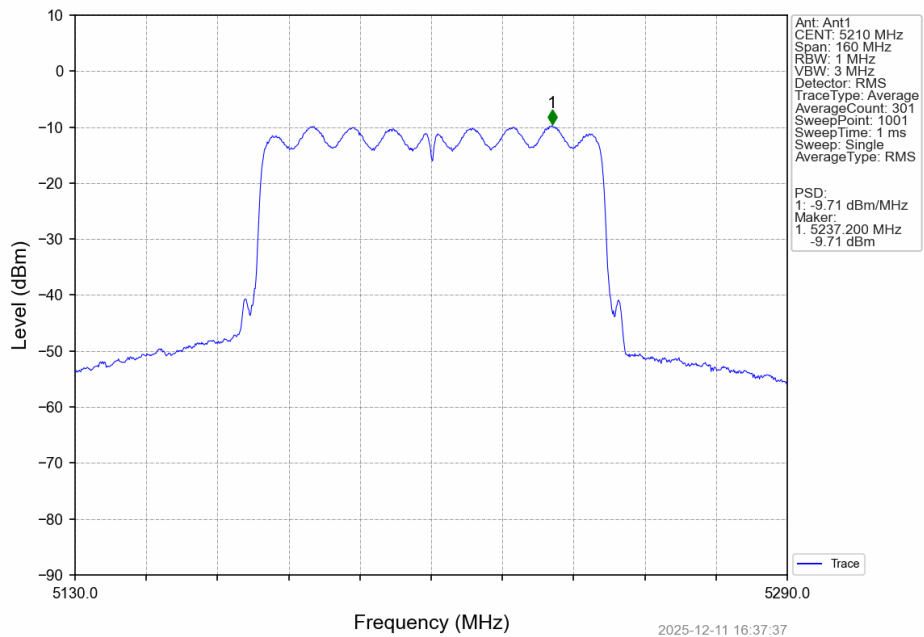
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTN



802.11ac(VHT40) HCH 5230MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



5. Unwanted Emissions In Restricted Frequency Bands

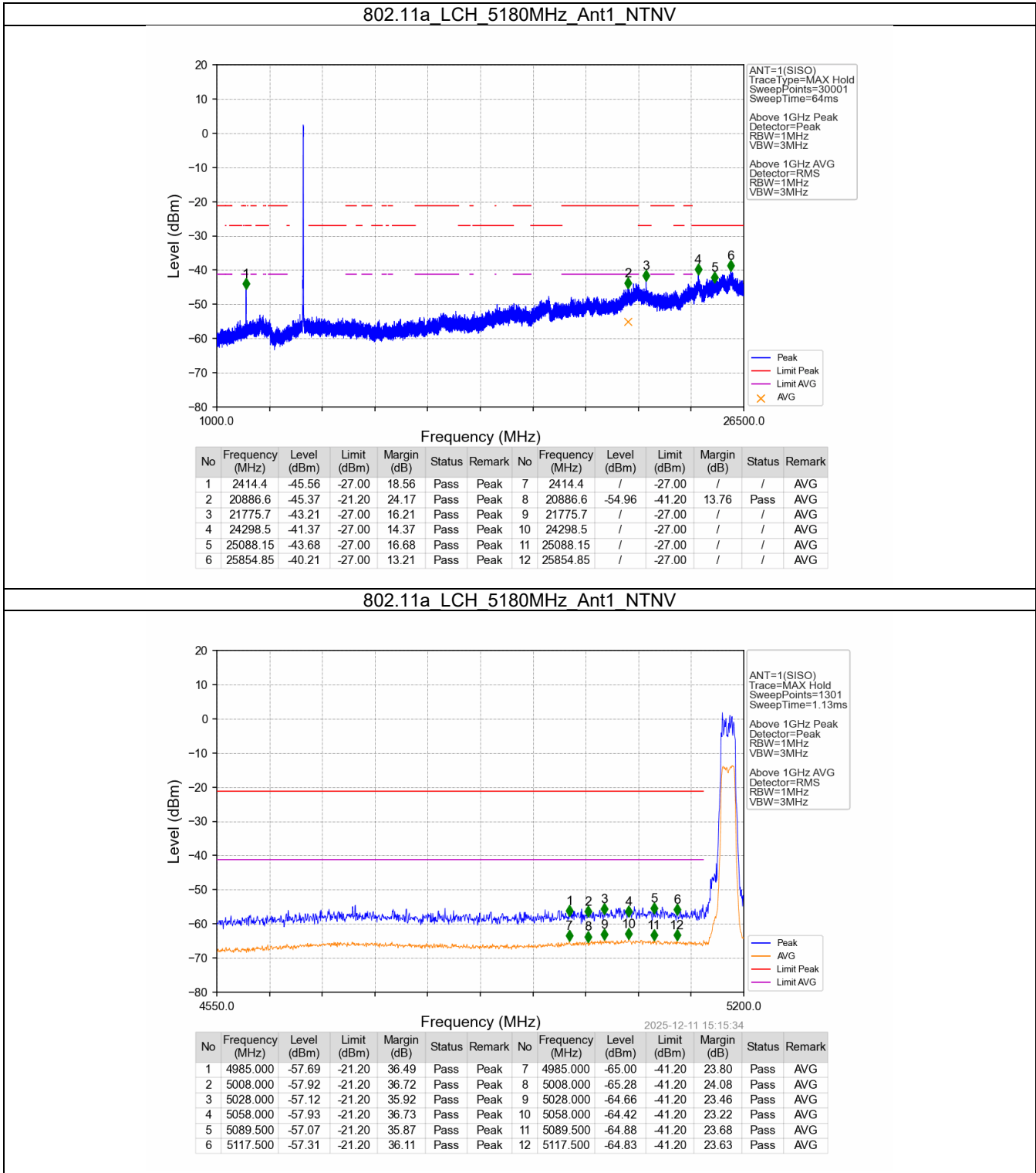
5.1 Test Result

5.1.1 RSE

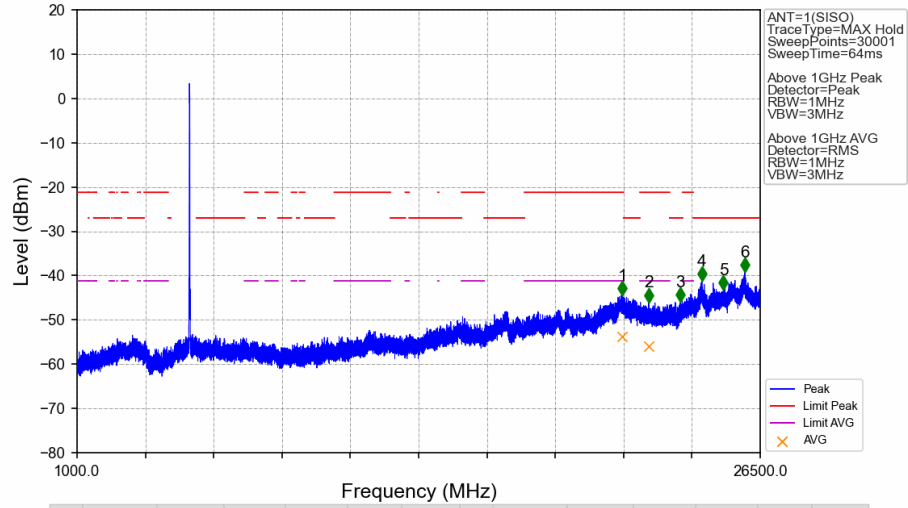
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT20)	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
802.11ac (VHT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
802.11ac (VHT80)	SISO	5210	1	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 RSE

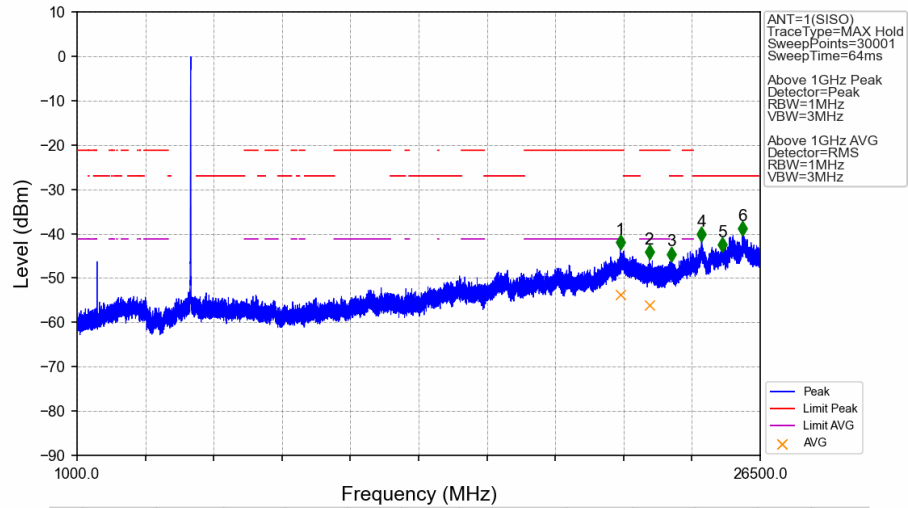


802.11a_MCH_5200MHz_Ant1_NTNV



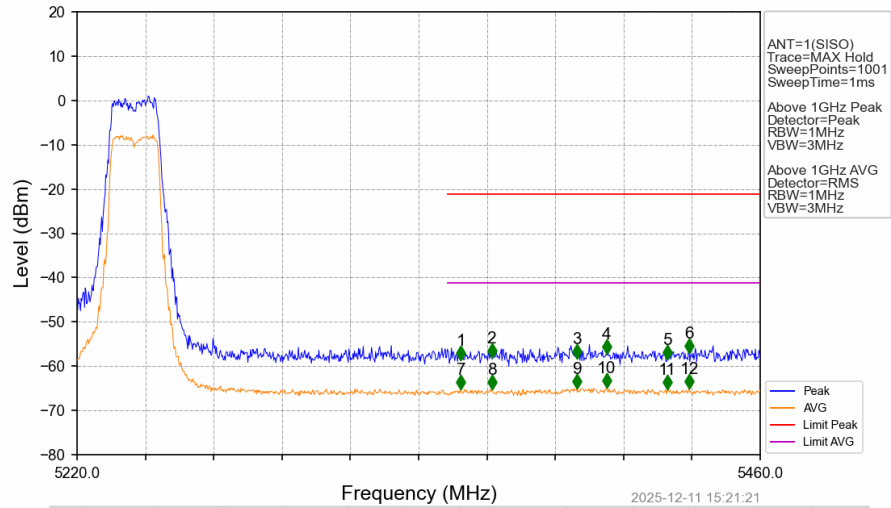
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21354.95	-44.39	-21.20	23.19	Pass	Peak	7	21354.95	-53.71	-41.20	12.51	Pass	AVG
2	22340.95	-45.97	-21.20	24.77	Pass	Peak	8	22340.95	-55.97	-41.20	14.77	Pass	AVG
3	23526.7	-45.81	-27.00	18.81	Pass	Peak	9	23526.7	/	-27.00	/	/	AVG
4	24326.55	-41.18	-27.00	14.18	Pass	Peak	10	24326.55	/	-27.00	/	/	AVG
5	25125.55	-43.14	-27.00	16.14	Pass	Peak	11	25125.55	/	-27.00	/	/	AVG
6	25927.95	-39.13	-27.00	12.13	Pass	Peak	12	25927.95	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV



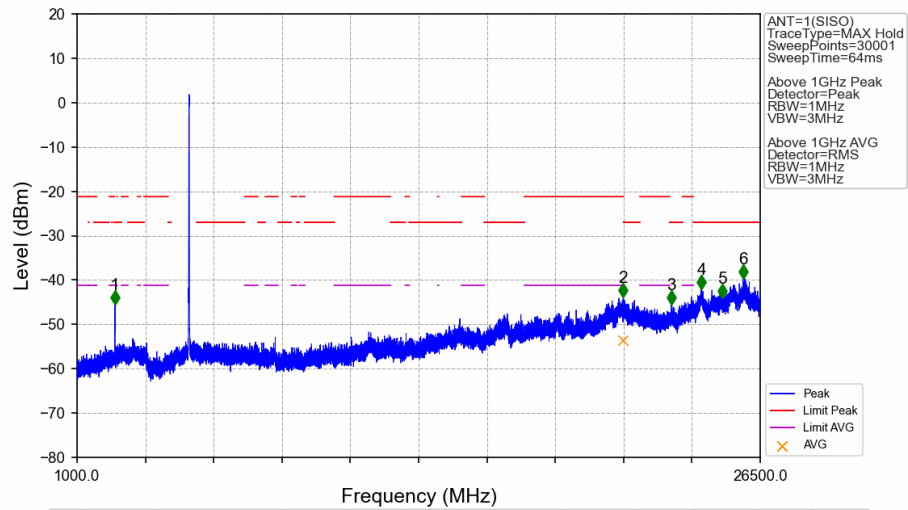
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21276.75	-43.55	-21.20	22.35	Pass	Peak	7	21276.75	-53.77	-41.20	12.57	Pass	AVG
2	22357.1	-45.73	-21.20	24.53	Pass	Peak	8	22357.1	-56.11	-41.20	14.91	Pass	AVG
3	23171.4	-46.14	-27.00	19.14	Pass	Peak	9	23171.4	/	-27.00	/	/	AVG
4	24307	-41.64	-27.00	14.64	Pass	Peak	10	24307	/	-27.00	/	/	AVG
5	25074.55	-44.07	-27.00	17.07	Pass	Peak	11	25074.55	/	-27.00	/	/	AVG
6	25841.25	-40.34	-27.00	13.34	Pass	Peak	12	25841.25	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV



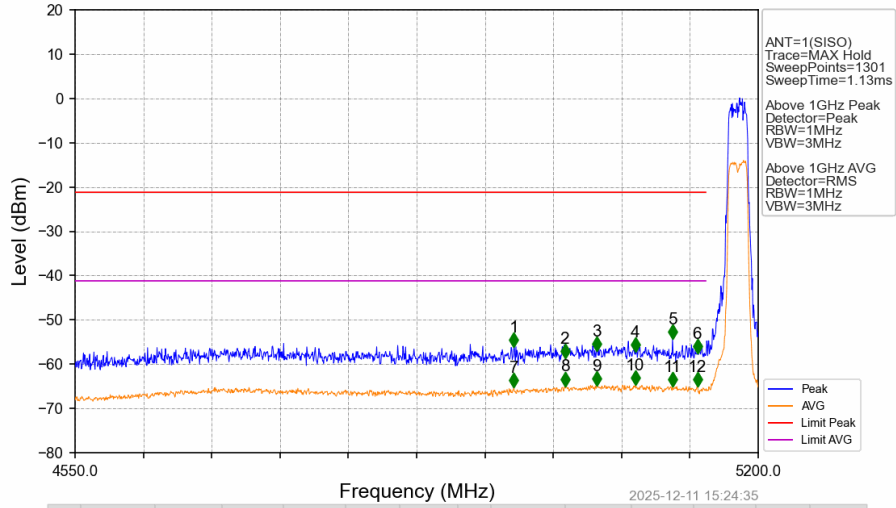
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5354.880	-58.71	-21.20	37.51	Pass	Peak	7	5354.880	-65.25	-41.20	24.05	Pass	AVG
2	5365.680	-58.06	-21.20	36.86	Pass	Peak	8	5365.680	-65.24	-41.20	24.04	Pass	AVG
3	5395.680	-58.24	-21.20	37.04	Pass	Peak	9	5395.680	-64.97	-41.20	23.77	Pass	AVG
4	5406.000	-57.24	-21.20	36.04	Pass	Peak	10	5406.000	-64.77	-41.20	23.57	Pass	AVG
5	5427.360	-58.48	-21.20	37.28	Pass	Peak	11	5427.360	-65.22	-41.20	24.02	Pass	AVG
6	5435.040	-56.97	-21.20	35.77	Pass	Peak	12	5435.040	-65.07	-41.20	23.87	Pass	AVG

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



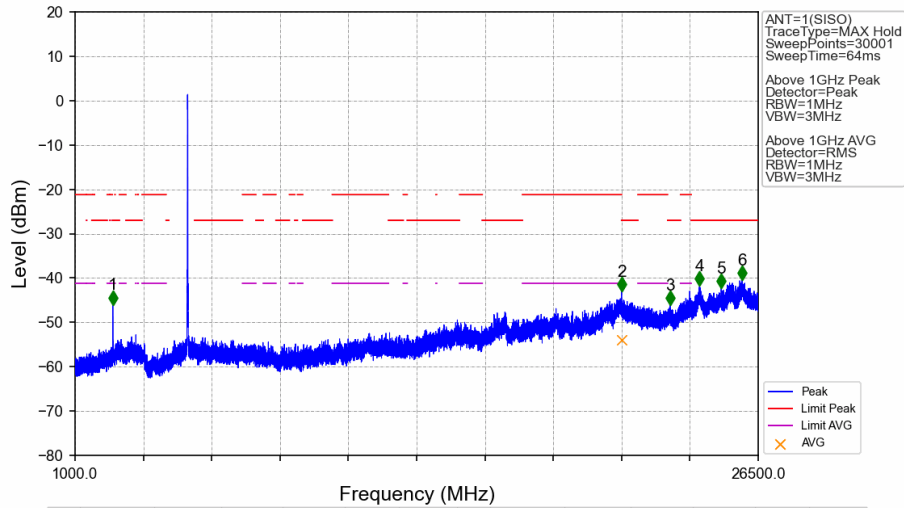
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2416.1	-45.53	-27.00	18.53	Pass	Peak	7	2416.1	/	-27.00	/	/	AVG
2	21390.65	-43.92	-21.20	22.72	Pass	Peak	8	21390.65	-53.64	-41.20	12.44	Pass	AVG
3	23180.75	-45.54	-27.00	18.54	Pass	Peak	9	23180.75	/	-27.00	/	/	AVG
4	24303.6	-42.03	-27.00	15.03	Pass	Peak	10	24303.6	/	-27.00	/	/	AVG
5	25087.3	-44.03	-27.00	17.03	Pass	Peak	11	25087.3	/	-27.00	/	/	AVG
6	25858.25	-39.63	-27.00	12.63	Pass	Peak	12	25858.25	/	-27.00	/	/	AVG

802.11n(HT20) LCH 5180MHz Ant1 NTN



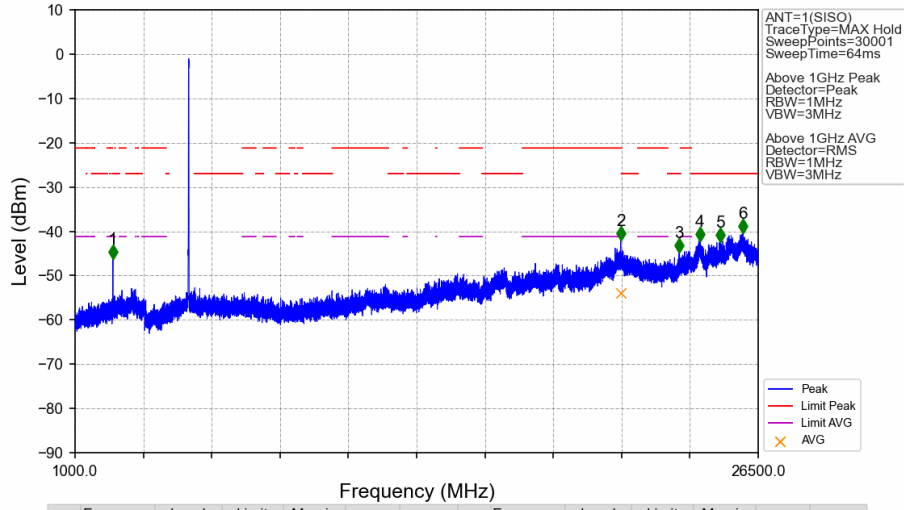
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4967.500	-56.10	-21.20	34.90	Pass	Peak	7	4967.500	-65.26	-41.20	24.06	Pass	AVG
2	5016.000	-58.68	-21.20	37.48	Pass	Peak	8	5016.000	-64.92	-41.20	23.72	Pass	AVG
3	5046.500	-57.03	-21.20	35.83	Pass	Peak	9	5046.500	-64.77	-41.20	23.57	Pass	AVG
4	5083.000	-57.13	-21.20	35.93	Pass	Peak	10	5083.000	-64.61	-41.20	23.41	Pass	AVG
5	5118.500	-54.28	-21.20	33.08	Pass	Peak	11	5118.500	-65.04	-41.20	23.84	Pass	AVG
6	5142.000	-57.59	-21.20	36.39	Pass	Peak	12	5142.000	-65.01	-41.20	23.81	Pass	AVG

802.11n(HT20) MCH 5200MHz Ant1 NTN



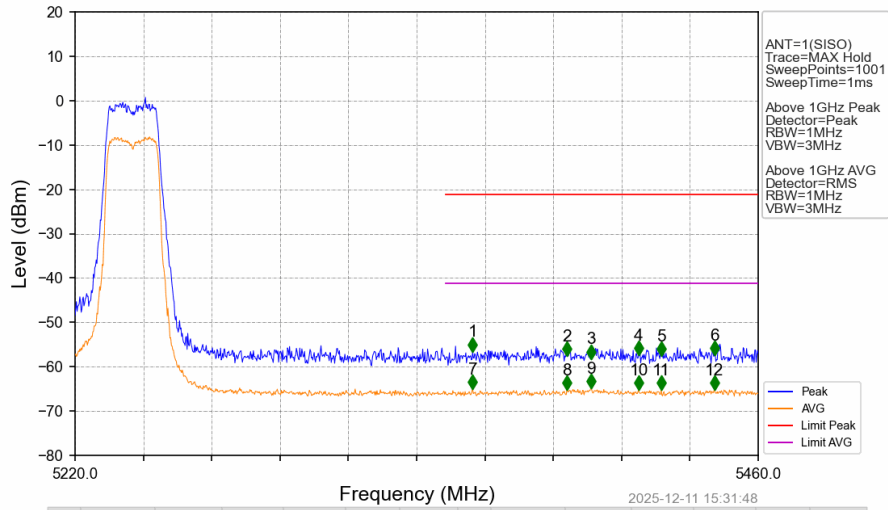
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2411	-45.98	-27.00	18.98	Pass	Peak	7	2411	/	-27.00	/	/	AVG
2	21400	-42.90	-21.20	21.70	Pass	Peak	8	21400	-53.93	-41.20	12.73	Pass	AVG
3	23202	-46.07	-27.00	19.07	Pass	Peak	9	23202	/	-27.00	/	/	AVG
4	24307.85	-41.72	-27.00	14.72	Pass	Peak	10	24307.85	/	-27.00	/	/	AVG
5	25117.05	-42.29	-27.00	15.29	Pass	Peak	11	25117.05	/	-27.00	/	/	AVG
6	25898.2	-40.38	-27.00	13.38	Pass	Peak	12	25898.2	/	-27.00	/	/	AVG

802.11n(HT20) HCH 5240MHz Ant1 NTV



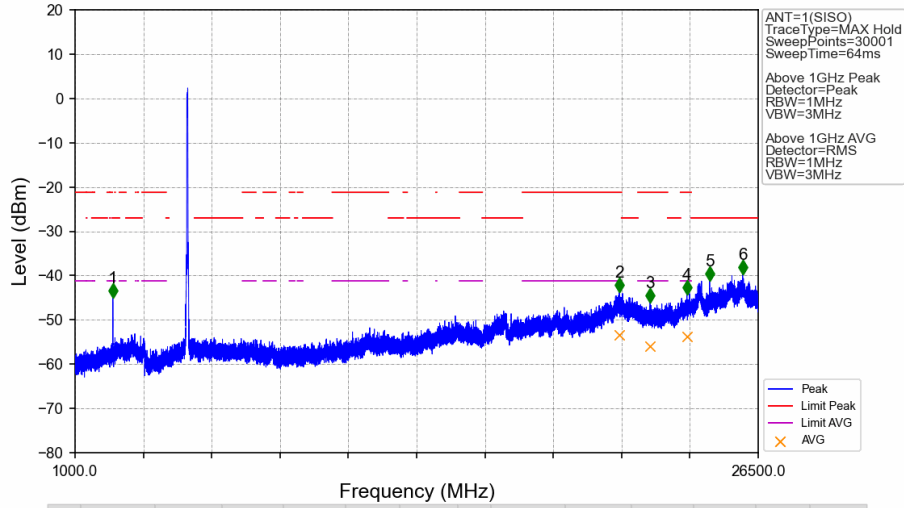
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2414.4	-46.26	-27.00	19.26	Pass	Peak	7	2414.4	/	-27.00	/	/	AVG
2	21368.55	-42.12	-21.20	20.92	Pass	Peak	8	21368.55	-53.91	-41.20	12.71	Pass	AVG
3	23545.4	-44.73	-27.00	17.73	Pass	Peak	9	23545.4	/	-27.00	/	/	AVG
4	24320.6	-42.16	-27.00	15.16	Pass	Peak	10	24320.6	/	-27.00	/	/	AVG
5	25092.4	-42.47	-27.00	15.47	Pass	Peak	11	25092.4	/	-27.00	/	/	AVG
6	25924.55	-40.37	-27.00	13.37	Pass	Peak	12	25924.55	/	-27.00	/	/	AVG

802.11n(HT20) HCH 5240MHz Ant1 NTV



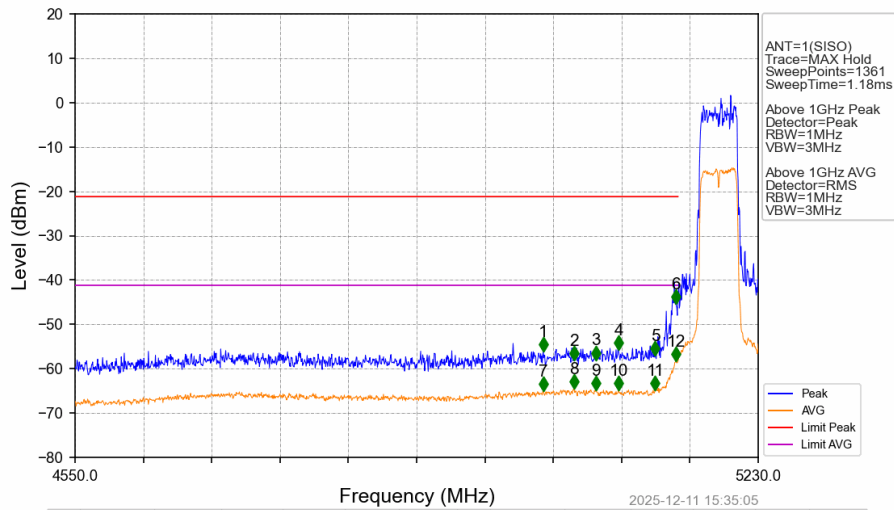
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5359.680	-56.54	-21.20	35.34	Pass	Peak	7	5359.680	-65.02	-41.20	23.82	Pass	AVG
2	5392.800	-57.47	-21.20	36.27	Pass	Peak	8	5392.800	-65.26	-41.20	24.06	Pass	AVG
3	5401.200	-58.18	-21.20	36.98	Pass	Peak	9	5401.200	-64.90	-41.20	23.70	Pass	AVG
4	5418.000	-57.43	-21.20	36.23	Pass	Peak	10	5418.000	-65.27	-41.20	24.07	Pass	AVG
5	5425.920	-57.47	-21.20	36.27	Pass	Peak	11	5425.920	-65.28	-41.20	24.08	Pass	AVG
6	5444.640	-57.39	-21.20	36.19	Pass	Peak	12	5444.640	-65.14	-41.20	23.94	Pass	AVG

802.11n(HT40) LCH_5190MHz_Ant1_NTNV



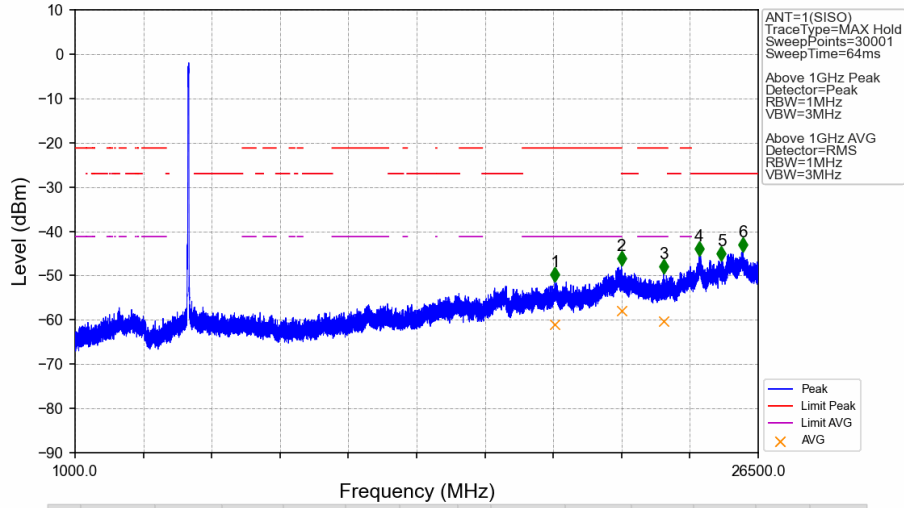
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2411	-45.00	-27.00	18.00	Pass	Peak	7	2411	/	-27.00	/	/	AVG
2	21316.7	-43.71	-21.20	22.51	Pass	Peak	8	21316.7	-53.44	-41.20	12.24	Pass	AVG
3	22464.2	-46.12	-21.20	24.92	Pass	Peak	9	22464.2	-55.99	-41.20	14.79	Pass	AVG
4	23839.5	-44.30	-21.20	23.10	Pass	Peak	10	23839.5	-53.86	-41.20	12.66	Pass	AVG
5	24686.95	-41.12	-27.00	14.12	Pass	Peak	11	24686.95	/	-27.00	/	/	AVG
6	25919.45	-39.69	-27.00	12.69	Pass	Peak	12	25919.45	/	-27.00	/	/	AVG

802.11n(HT40) LCH_5190MHz_Ant1_NTNV



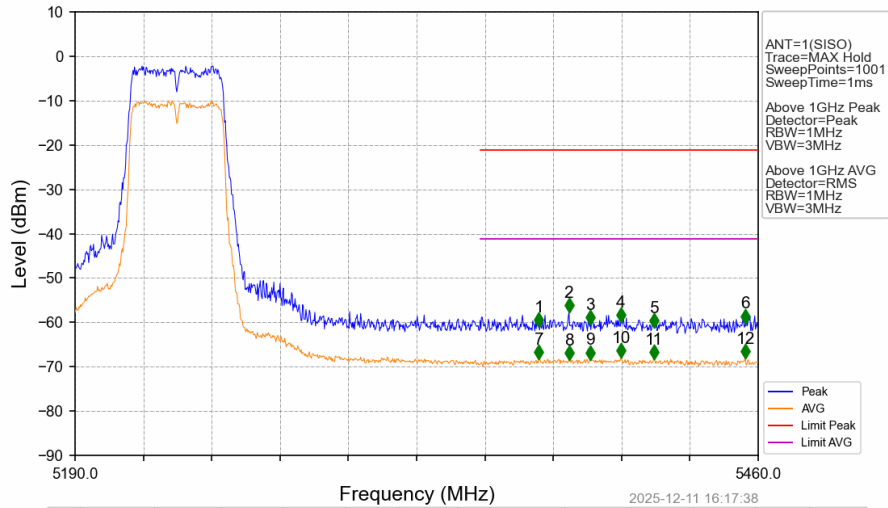
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5016.000	-56.04	-21.20	34.84	Pass	Peak	7	5016.000	-64.93	-41.20	23.73	Pass	AVG
2	5046.500	-58.11	-21.20	36.91	Pass	Peak	8	5046.500	-64.44	-41.20	23.24	Pass	AVG
3	5068.500	-58.00	-21.20	36.80	Pass	Peak	9	5068.500	-64.75	-41.20	23.55	Pass	AVG
4	5091.000	-55.71	-21.20	34.51	Pass	Peak	10	5091.000	-64.77	-41.20	23.57	Pass	AVG
5	5127.500	-57.06	-21.20	35.86	Pass	Peak	11	5127.500	-64.77	-41.20	23.57	Pass	AVG
6	5148.000	-45.38	-21.20	24.18	Pass	Peak	12	5148.000	-58.32	-41.20	17.12	Pass	AVG

802.11n(HT40) HCH 5230MHz Ant1 NTV



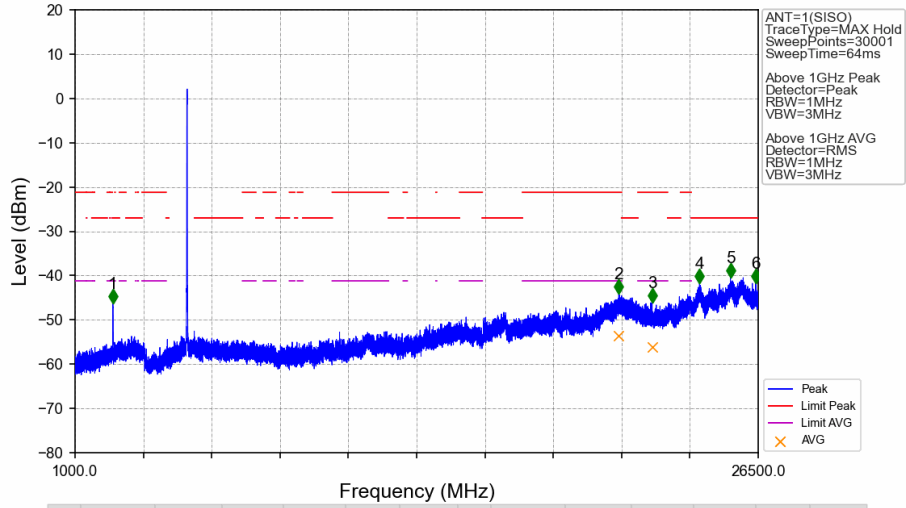
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	18910.35	-51.39	-21.20	30.19	Pass	Peak	7	18910.35	-61.12	-41.20	19.92	Pass	AVG
2	21391.5	-47.67	-21.20	26.47	Pass	Peak	8	21391.5	-57.89	-41.20	16.69	Pass	AVG
3	22965.7	-49.56	-21.20	28.36	Pass	Peak	9	22965.7	-60.39	-41.20	19.19	Pass	AVG
4	24295.95	-45.47	-27.00	18.47	Pass	Peak	10	24295.95	/	-27.00	/	/	AVG
5	25126.4	-46.65	-27.00	19.65	Pass	Peak	11	25126.4	/	-27.00	/	/	AVG
6	25920.3	-44.59	-27.00	17.59	Pass	Peak	12	25920.3	/	-27.00	/	/	AVG

802.11n(HT40) HCH 5230MHz Ant1 NTV



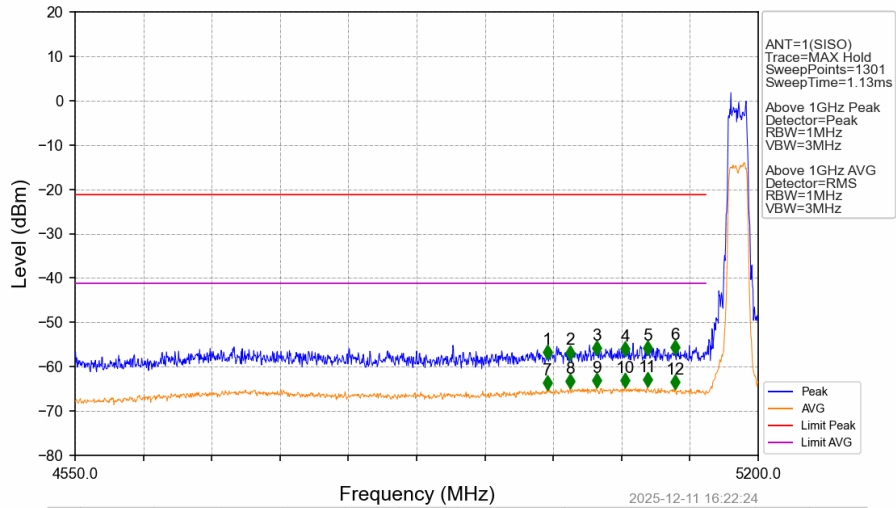
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5373.330	-60.99	-21.20	39.79	Pass	Peak	7	5373.330	-68.19	-41.20	26.99	Pass	AVG
2	5385.210	-57.71	-21.20	36.51	Pass	Peak	8	5385.210	-68.51	-41.20	27.31	Pass	AVG
3	5393.580	-60.49	-21.20	39.29	Pass	Peak	9	5393.580	-68.36	-41.20	27.16	Pass	AVG
4	5405.730	-59.88	-21.20	38.68	Pass	Peak	10	5405.730	-67.85	-41.20	26.65	Pass	AVG
5	5418.690	-61.18	-21.20	39.98	Pass	Peak	11	5418.690	-68.20	-41.20	27.00	Pass	AVG
6	5454.870	-60.16	-21.20	38.96	Pass	Peak	12	5454.870	-68.09	-41.20	26.89	Pass	AVG

802.11ac(VHT20) LCH 5180MHz Ant1 NTNV



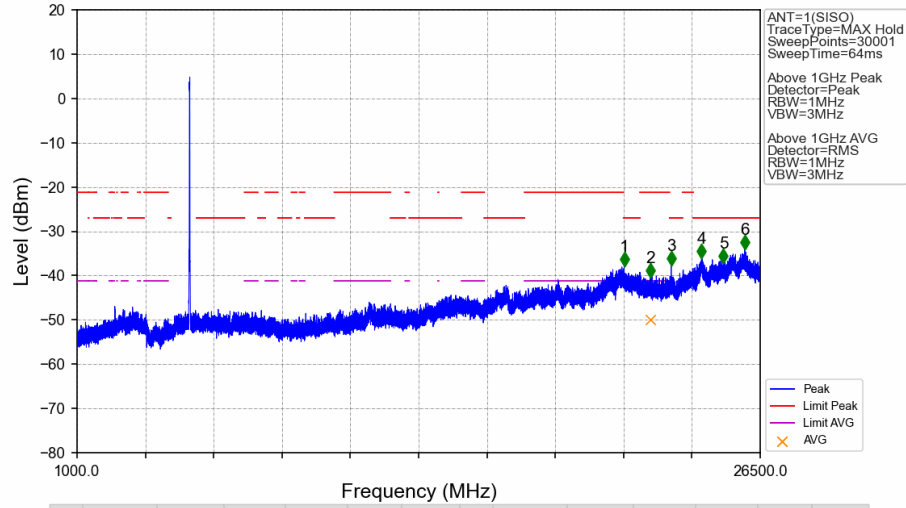
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1	2411.85	-46.19	-27.00	19.19	Pass	Peak	7	2411.85	/	-27.00	/	/	AVG
2	21296.3	-44.04	-21.20	22.84	Pass	Peak	8	21296.3	-53.58	-41.20	12.38	Pass	AVG
3	22539	-46.06	-21.20	24.86	Pass	Peak	9	22539	-56.17	-41.20	14.97	Pass	AVG
4	24309.55	-41.77	-27.00	14.77	Pass	Peak	10	24309.55	/	-27.00	/	/	AVG
5	25462.15	-40.45	-27.00	13.45	Pass	Peak	11	25462.15	/	-27.00	/	/	AVG
6	26410.75	-41.61	-27.00	14.61	Pass	Peak	12	26410.75	/	-27.00	/	/	AVG

802.11ac(VHT20) LCH 5180MHz Ant1 NTNV



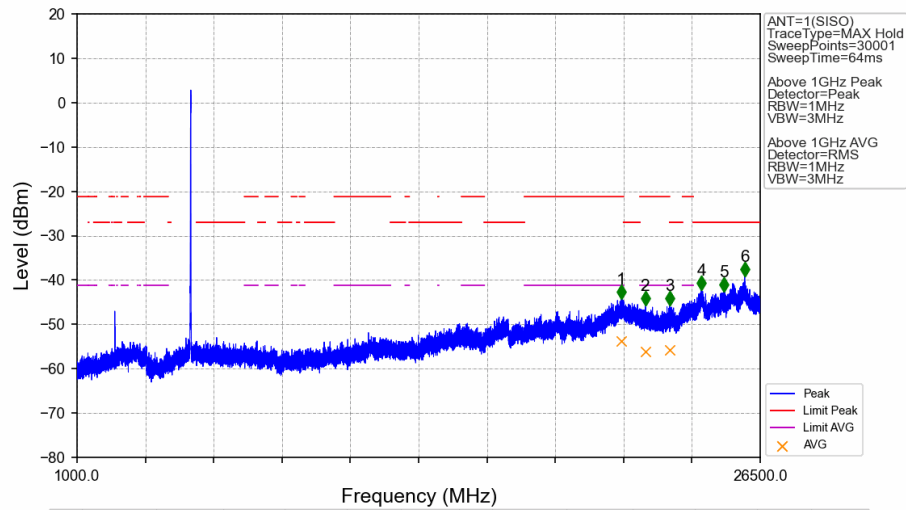
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1	4999.500	-58.24	-21.20	37.04	Pass	Peak	7	4999.500	-65.22	-41.20	24.02	Pass	AVG
2	5021.000	-58.36	-21.20	37.16	Pass	Peak	8	5021.000	-64.79	-41.20	23.59	Pass	AVG
3	5046.000	-57.33	-21.20	36.13	Pass	Peak	9	5046.000	-64.71	-41.20	23.51	Pass	AVG
4	5073.500	-57.60	-21.20	36.40	Pass	Peak	10	5073.500	-64.66	-41.20	23.46	Pass	AVG
5	5094.500	-57.44	-21.20	36.24	Pass	Peak	11	5094.500	-64.46	-41.20	23.26	Pass	AVG
6	5121.000	-57.22	-21.20	36.02	Pass	Peak	12	5121.000	-64.96	-41.20	23.76	Pass	AVG

802.11ac(VHT20) MCH 5200MHz Ant1 NTNV



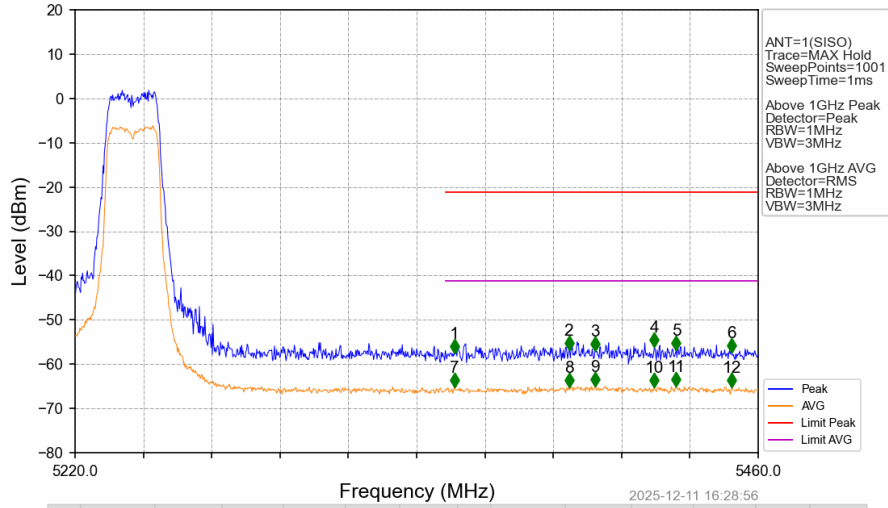
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21422.1	-37.92	-27.00	10.92	Pass	Peak	7	21422.1	/	-27.00	/	/	AVG
2	22407.25	-40.38	-21.20	19.18	Pass	Peak	8	22407.25	-49.95	-41.20	8.75	Pass	AVG
3	23177.35	-37.64	-27.00	10.64	Pass	Peak	9	23177.35	/	-27.00	/	/	AVG
4	24310.4	-35.96	-27.00	8.96	Pass	Peak	10	24310.4	/	-27.00	/	/	AVG
5	25126.4	-37.21	-27.00	10.21	Pass	Peak	11	25126.4	/	-27.00	/	/	AVG
6	25923.7	-34.03	-27.00	7.03	Pass	Peak	12	25923.7	/	-27.00	/	/	AVG

802.11ac(VHT20) HCH 5240MHz Ant1 NTNV

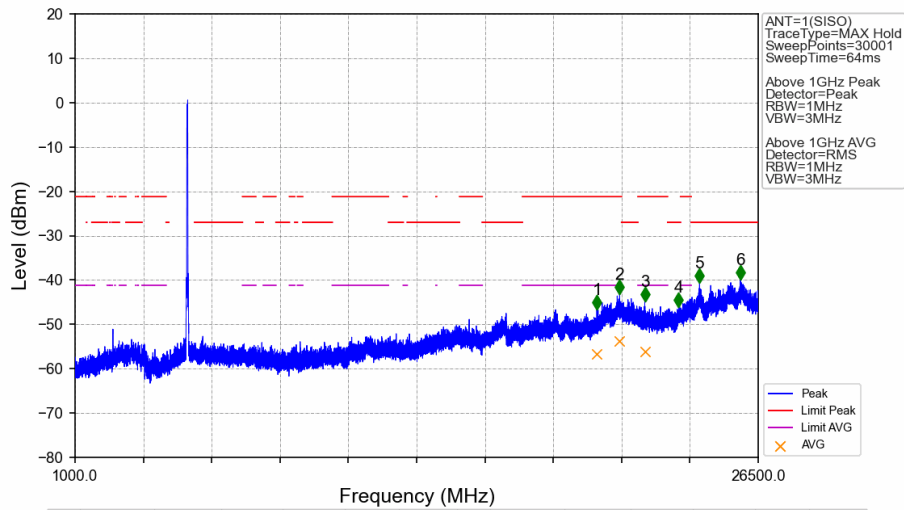


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21303.95	-44.19	-21.20	22.99	Pass	Peak	7	21303.95	-53.82	-41.20	12.62	Pass	AVG
2	22207.5	-45.75	-21.20	24.55	Pass	Peak	8	22207.5	-56.11	-41.20	14.91	Pass	AVG
3	23117.85	-45.78	-21.20	24.58	Pass	Peak	9	23117.85	-55.80	-41.20	14.60	Pass	AVG
4	24311.25	-42.27	-27.00	15.27	Pass	Peak	10	24311.25	/	-27.00	/	/	AVG
5	25145.95	-42.65	-27.00	15.65	Pass	Peak	11	25145.95	/	-27.00	/	/	AVG
6	25922	-39.18	-27.00	12.18	Pass	Peak	12	25922	/	-27.00	/	/	AVG

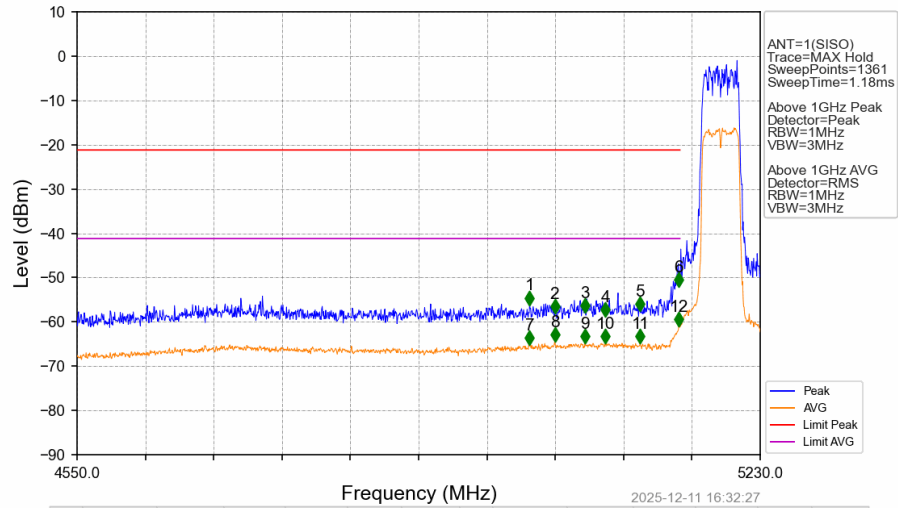
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



802.11ac(VHT40) LCH 5190MHz Ant1 NTN

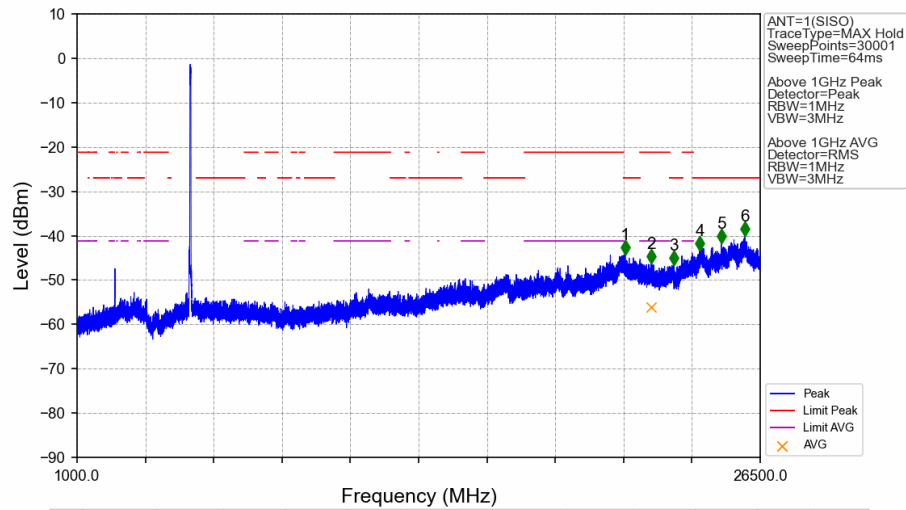


802.11ac(VHT40) LCH 5190MHz Ant1 NTN



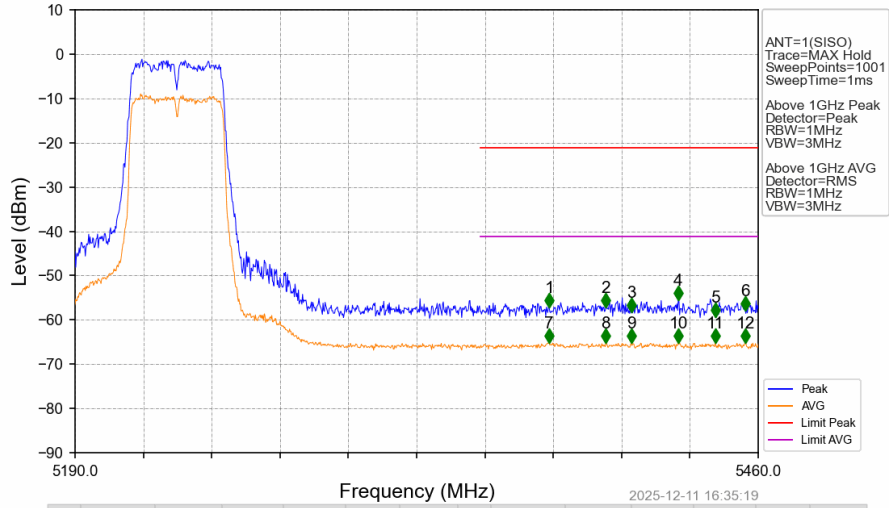
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5000.500	-56.16	-21.20	34.96	Pass	Peak	7	5000.500	-65.14	-41.20	23.94	Pass	AVG
2	5025.500	-58.05	-21.20	36.85	Pass	Peak	8	5025.500	-64.36	-41.20	23.16	Pass	AVG
3	5055.500	-57.89	-21.20	36.69	Pass	Peak	9	5055.500	-64.76	-41.20	23.56	Pass	AVG
4	5076.000	-58.80	-21.20	37.60	Pass	Peak	10	5076.000	-64.86	-41.20	23.66	Pass	AVG
5	5110.500	-57.48	-21.20	36.28	Pass	Peak	11	5110.500	-64.78	-41.20	23.58	Pass	AVG
6	5149.000	-52.03	-21.20	30.83	Pass	Peak	12	5149.000	-60.95	-41.20	19.75	Pass	AVG

802.11ac(VHT40) HCH 5230MHz Ant1 NTN



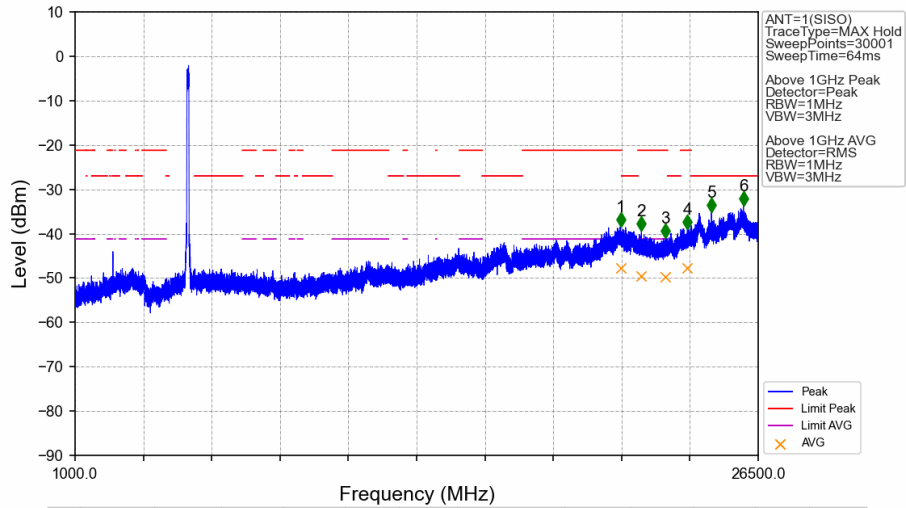
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21461.2	-44.19	-27.00	17.19	Pass	Peak	7	21461.2	/	-27.00	/	/	AVG
2	22431.05	-46.23	-21.20	25.03	Pass	Peak	8	22431.05	-56.07	-41.20	14.87	Pass	AVG
3	23281.05	-46.64	-27.00	19.64	Pass	Peak	9	23281.05	/	-27.00	/	/	AVG
4	24247.5	-43.28	-27.00	16.28	Pass	Peak	10	24247.5	/	-27.00	/	/	AVG
5	25049.05	-41.75	-27.00	14.75	Pass	Peak	11	25049.05	/	-27.00	/	/	AVG
6	25930.5	-40.11	-27.00	13.11	Pass	Peak	12	25930.5	/	-27.00	/	/	AVG

802.11ac(VHT40) HCH 5230MHz Ant1 NTNV



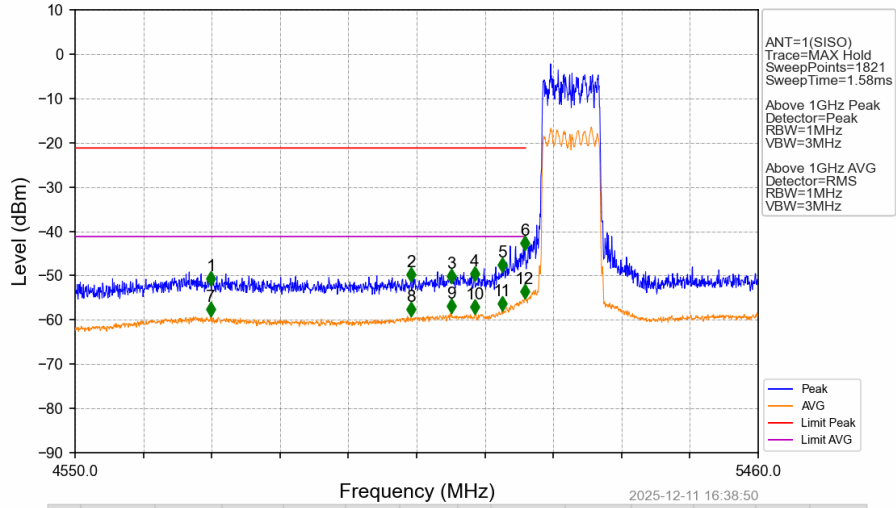
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5377.380	-57.20	-21.20	36.00	Pass	Peak	7	5377.380	-65.21	-41.20	24.01	Pass	AVG
2	5399.790	-57.10	-21.20	35.90	Pass	Peak	8	5399.790	-65.26	-41.20	24.06	Pass	AVG
3	5409.780	-58.34	-21.20	37.14	Pass	Peak	9	5409.780	-65.25	-41.20	24.05	Pass	AVG
4	5428.410	-55.52	-21.20	34.32	Pass	Peak	10	5428.410	-65.17	-41.20	23.97	Pass	AVG
5	5442.990	-59.38	-21.20	38.18	Pass	Peak	11	5442.990	-65.17	-41.20	23.97	Pass	AVG
6	5454.870	-57.89	-21.20	36.69	Pass	Peak	12	5454.870	-65.09	-41.20	23.89	Pass	AVG

802.11ac(VHT80) MCH 5210MHz Ant1 NTNV



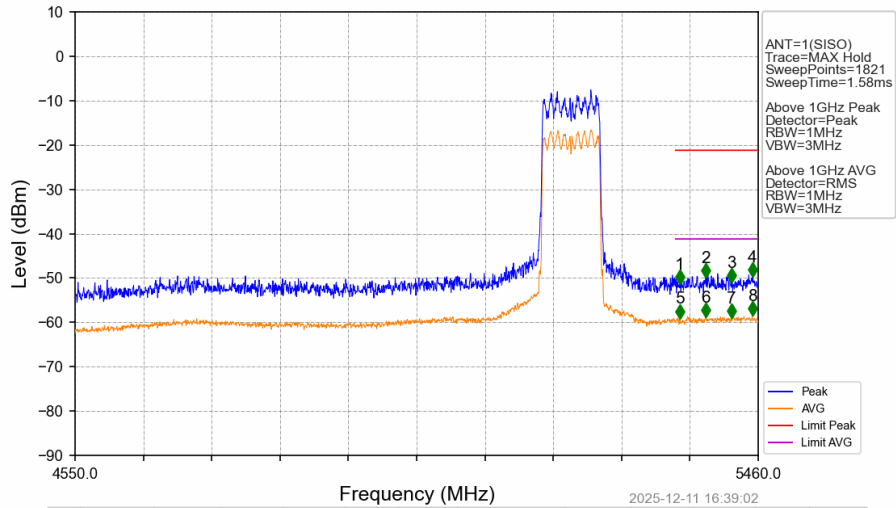
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21363.45	-38.34	-21.20	17.14	Pass	Peak	7	21363.45	-47.75	-41.20	6.55	Pass	AVG
2	22138.65	-39.28	-21.20	18.08	Pass	Peak	8	22138.65	-49.50	-41.20	8.30	Pass	AVG
3	23040.5	-40.94	-21.20	19.74	Pass	Peak	9	23040.5	-49.80	-41.20	8.60	Pass	AVG
4	23855.65	-38.87	-21.20	17.67	Pass	Peak	10	23855.65	-47.81	-41.20	6.61	Pass	AVG
5	24754.95	-35.09	-27.00	8.09	Pass	Peak	11	24754.95	/	-27.00	/	/	AVG
6	25949.2	-33.61	-27.00	6.61	Pass	Peak	12	25949.2	/	-27.00	/	/	AVG

802.11ac(VHT80) MCH 5210MHz Ant1 NTN



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4731.000	-52.31	-21.20	31.11	Pass	Peak	7	4731.000	-59.18	-41.20	17.98	Pass	AVG
2	4997.500	-51.34	-21.20	30.14	Pass	Peak	8	4997.500	-59.14	-41.20	17.94	Pass	AVG
3	5051.500	-51.70	-21.20	30.50	Pass	Peak	9	5051.500	-58.50	-41.20	17.30	Pass	AVG
4	5082.500	-51.21	-21.20	30.01	Pass	Peak	10	5082.500	-58.58	-41.20	17.38	Pass	AVG
5	5118.500	-49.20	-21.20	28.00	Pass	Peak	11	5118.500	-57.86	-41.20	16.66	Pass	AVG
6	5149.000	-44.29	-21.20	23.09	Pass	Peak	12	5149.000	-55.21	-41.20	14.01	Pass	AVG

802.11ac(VHT80) MCH 5210MHz Ant1 NTN



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5355.500	-51.29	-21.20	30.09	Pass	Peak	5	5355.500	-59.07	-41.20	17.87	Pass	AVG
2	5390.000	-49.90	-21.20	28.70	Pass	Peak	6	5390.000	-58.75	-41.20	17.55	Pass	AVG
3	5424.000	-50.97	-21.20	29.77	Pass	Peak	7	5424.000	-59.03	-41.20	17.83	Pass	AVG
4	5452.000	-49.65	-21.20	28.45	Pass	Peak	8	5452.000	-58.47	-41.20	17.27	Pass	AVG

6. Frequency Stability

6.1 Test Result

6.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.040	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.040	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5200.020	5150 to 5250	Pass
		5180	40	120	5180.020	5150 to 5250	Pass
		5200	-10	120	5199.980	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.060	5150 to 5250	Pass
			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.060	5150 to 5250	Pass
			50	120	5200.060	5150 to 5250	Pass
		5240	20	102	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.000	5150 to 5250	Pass
			-30	120	5240.060	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.040	5150 to 5250	Pass
			50	120	5240.040	5150 to 5250	Pass
802.11n (HT20)	SISO	5180	20	102	5180.060	5150 to 5250	Pass
				120	5180.060	5150 to 5250	Pass
				138	5180.040	5150 to 5250	Pass
			-30	120	5180.040	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.080	5150 to 5250	Pass
			10	120	5180.080	5150 to 5250	Pass
			30	120	5180.000	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.020	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass

				138	5200.040	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.040	5150 to 5250	Pass
			0	120	5200.000	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
		5240	20	102	5240.040	5150 to 5250	Pass
				120	5240.000	5150 to 5250	Pass
				138	5240.000	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
			0	120	5239.980	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5240.060	5150 to 5250	Pass
			40	120	5239.960	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
802.11n (HT40)	SISO	5190	20	102	5190.120	5150 to 5250	Pass
				120	5190.080	5150 to 5250	Pass
				138	5190.120	5150 to 5250	Pass
			-30	120	5190.120	5150 to 5250	Pass
			-20	120	5190.160	5150 to 5250	Pass
			-10	120	5190.120	5150 to 5250	Pass
			0	120	5190.120	5150 to 5250	Pass
			10	120	5190.120	5150 to 5250	Pass
			30	120	5190.120	5150 to 5250	Pass
			40	120	5190.120	5150 to 5250	Pass
			50	120	5190.120	5150 to 5250	Pass
		5230	20	102	5230.080	5150 to 5250	Pass
				120	5230.080	5150 to 5250	Pass
				138	5230.120	5150 to 5250	Pass
			-30	120	5230.120	5150 to 5250	Pass
			-20	120	5230.120	5150 to 5250	Pass
			-10	120	5230.080	5150 to 5250	Pass
			0	120	5230.080	5150 to 5250	Pass
			10	120	5230.120	5150 to 5250	Pass
			30	120	5230.120	5150 to 5250	Pass
802.11ac (VHT20)	SISO	5180	20	102	5180.100	5150 to 5250	Pass
				120	5180.120	5150 to 5250	Pass
				138	5180.080	5150 to 5250	Pass
			-30	120	5180.040	5150 to 5250	Pass
			-20	120	5180.080	5150 to 5250	Pass
			-10	120	5180.120	5150 to 5250	Pass
			0	120	5180.100	5150 to 5250	Pass
			10	120	5180.080	5150 to 5250	Pass
			30	120	5180.080	5150 to 5250	Pass
			40	120	5180.100	5150 to 5250	Pass
			50	120	5180.080	5150 to 5250	Pass
		5200	20	102	5200.100	5150 to 5250	Pass
				120	5200.120	5150 to 5250	Pass
				138	5200.060	5150 to 5250	Pass
			-30	120	5200.080	5150 to 5250	Pass
			-20	120	5200.100	5150 to 5250	Pass
			-10	120	5200.080	5150 to 5250	Pass

			0	120	5200.080	5150 to 5250	Pass
			10	120	5200.060	5150 to 5250	Pass
			30	120	5200.100	5150 to 5250	Pass
			40	120	5200.080	5150 to 5250	Pass
			50	120	5200.100	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.100	5150 to 5250	Pass
				138	5240.100	5150 to 5250	Pass
			-30	120	5240.100	5150 to 5250	Pass
			-20	120	5240.000	5150 to 5250	Pass
			-10	120	5240.040	5150 to 5250	Pass
			0	120	5240.100	5150 to 5250	Pass
			10	120	5240.060	5150 to 5250	Pass
			30	120	5240.040	5150 to 5250	Pass
			40	120	5240.060	5150 to 5250	Pass
			50	120	5240.100	5150 to 5250	Pass
802.11ac (VHT40)	SISO	5190	20	102	5190.040	5150 to 5250	Pass
				120	5190.160	5150 to 5250	Pass
				138	5190.120	5150 to 5250	Pass
			-30	120	5190.080	5150 to 5250	Pass
			-20	120	5190.120	5150 to 5250	Pass
			-10	120	5190.120	5150 to 5250	Pass
			0	120	5190.160	5150 to 5250	Pass
			10	120	5190.120	5150 to 5250	Pass
			30	120	5190.120	5150 to 5250	Pass
			40	120	5190.080	5150 to 5250	Pass
			50	120	5190.120	5150 to 5250	Pass
		5230	20	102	5230.080	5150 to 5250	Pass
				120	5230.040	5150 to 5250	Pass
				138	5230.080	5150 to 5250	Pass
			-30	120	5230.080	5150 to 5250	Pass
			-20	120	5230.080	5150 to 5250	Pass
			-10	120	5230.120	5150 to 5250	Pass
			0	120	5230.080	5150 to 5250	Pass
			10	120	5230.080	5150 to 5250	Pass
			30	120	5230.120	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
802.11ac (VHT80)	SISO	5210	20	102	5210.150	5150 to 5250	Pass
				120	5210.150	5150 to 5250	Pass
				138	5210.150	5150 to 5250	Pass
			-30	120	5210.150	5150 to 5250	Pass
			-20	120	5210.150	5150 to 5250	Pass
			-10	120	5210.150	5150 to 5250	Pass
			0	120	5210.150	5150 to 5250	Pass
			10	120	5210.150	5150 to 5250	Pass
			30	120	5210.150	5150 to 5250	Pass
			40	120	5210.150	5150 to 5250	Pass
			50	120	5210.150	5150 to 5250	Pass