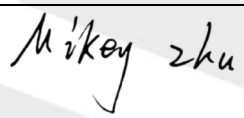
ANNEX G TEST DATA

For

Project No.:	8236EU011714W
Client:	glocusent co., ltd
Product Description:	IP Camera N11
Model No.:	N11
FCC ID:	2A6GTGLCSNTN1101
Technology:	WiFi 5G
Test Engineer:	
Test Date:	2024-12-23

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Stability	Pass

1. Duty Cycle

1.1 Test Result

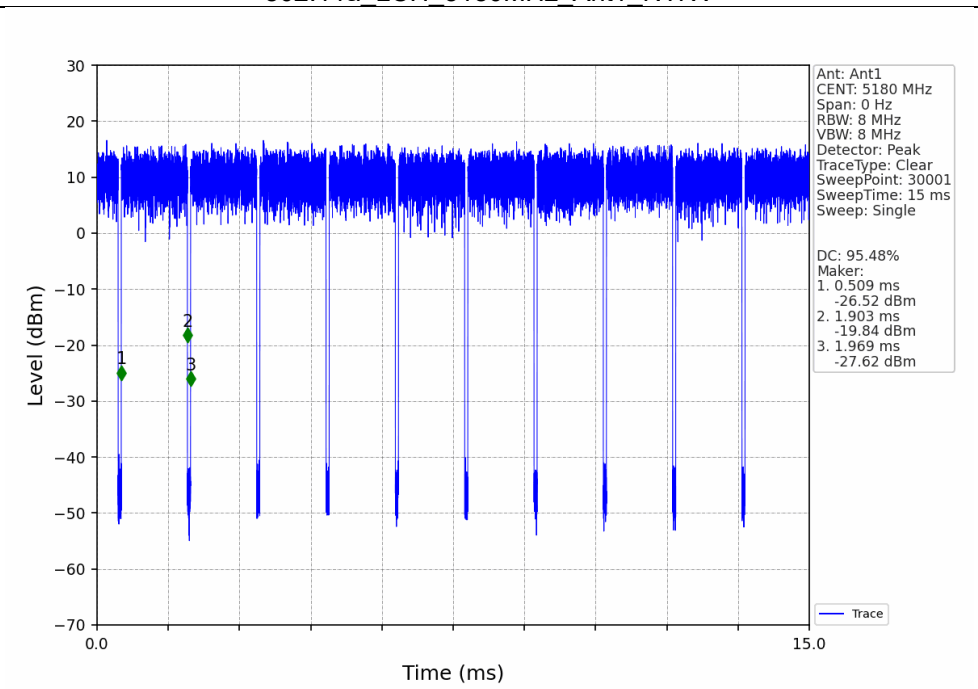
1.1.1 Ant1

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	1.394	1.460	95.48	0.20	0.00
		5200	1.393	1.460	95.41	0.20	0.03
		5240	1.393	1.460	95.41	0.20	0.03
		5745	1.394	1.460	95.48	0.20	0.03
		5785	1.394	1.460	95.48	0.20	0.00
		5825	1.393	1.459	95.48	0.20	0.00
802.11n (HT20)	SISO	5180	5.085	5.151	98.72	0.06	0.03
		5200	5.085	5.151	98.72	0.06	0.03
		5240	5.085	5.152	98.70	0.06	0.04
		5745	5.085	5.151	98.72	0.06	0.03
		5785	5.085	5.152	98.70	0.06	0.03
		5825	5.085	5.152	98.70	0.06	0.04
802.11n (HT40)	SISO	5190	2.469	2.536	97.36	0.12	0.03
		5230	2.469	2.536	97.36	0.12	0.03
		5755	2.469	2.536	97.36	0.12	0.03
		5795	2.469	2.536	97.36	0.12	0.03

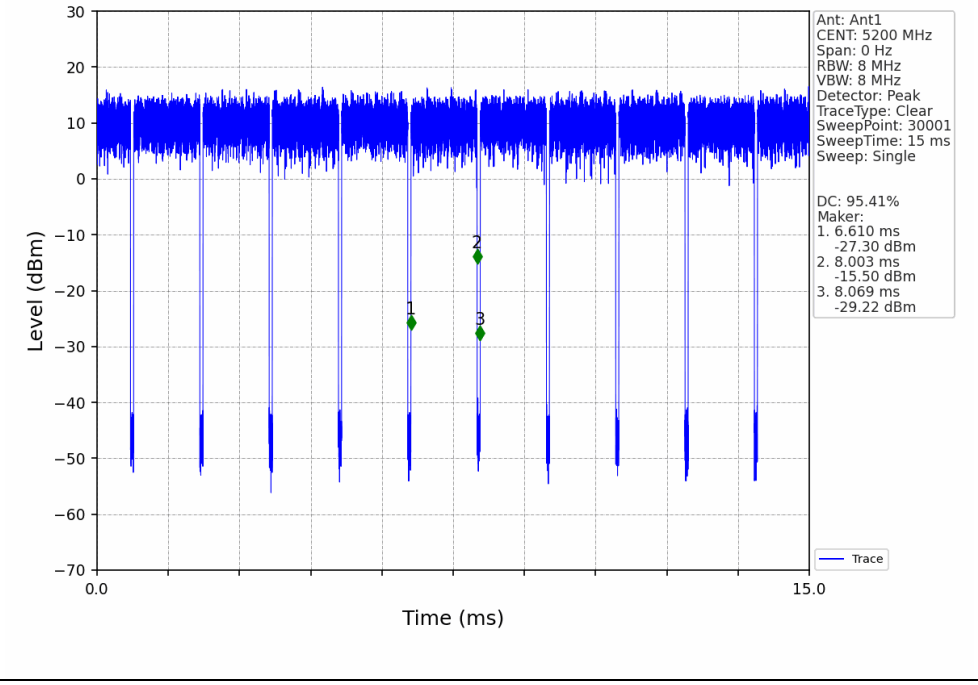
1.2 Test Graph

1.2.1 Ant1

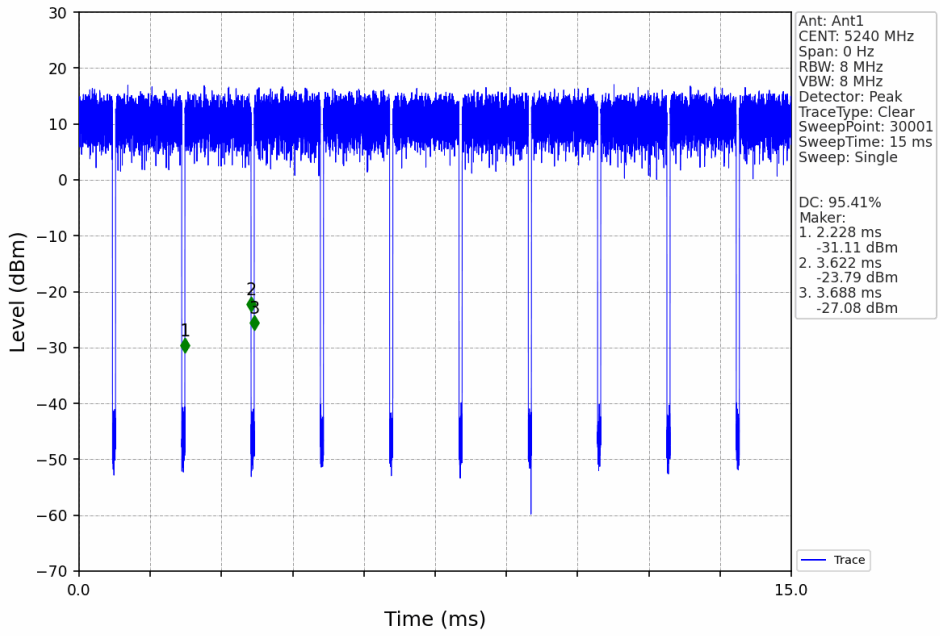
802.11a_LCH_5180MHz_Ant1_NTNV



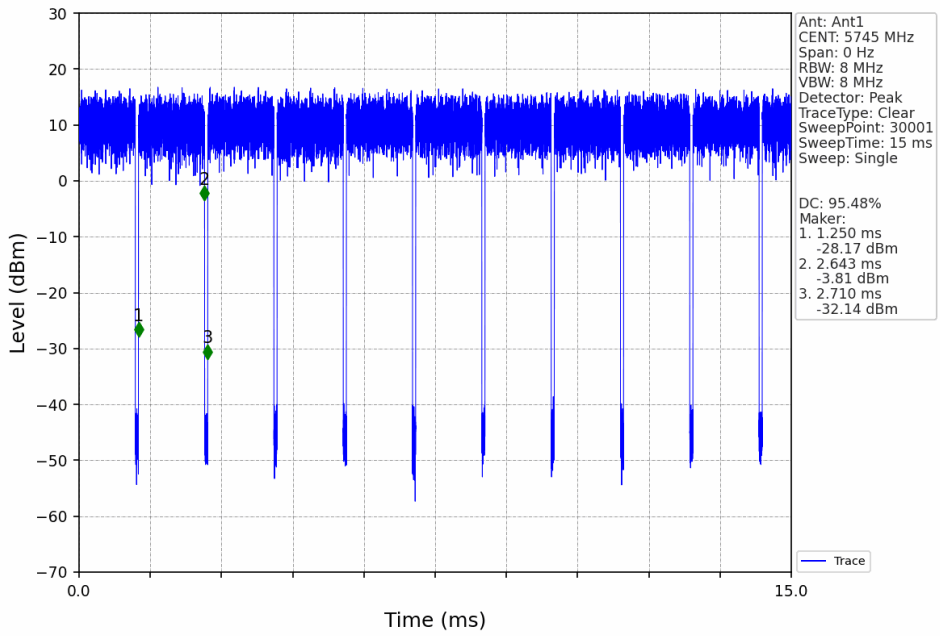
802.11a_MCH_5200MHz_Ant1_NTNV



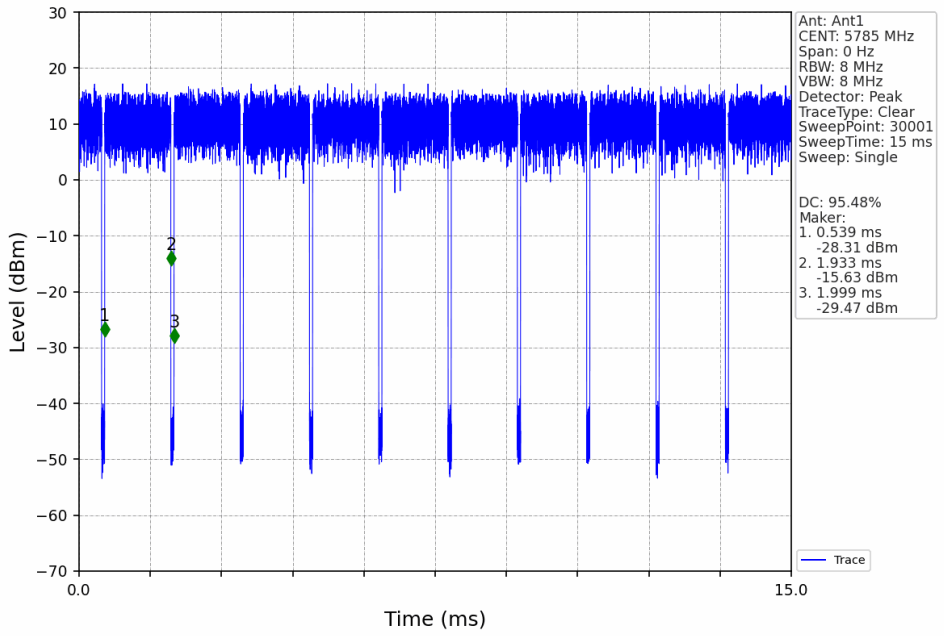
802.11a_HCH_5240MHz_Ant1_NTNV



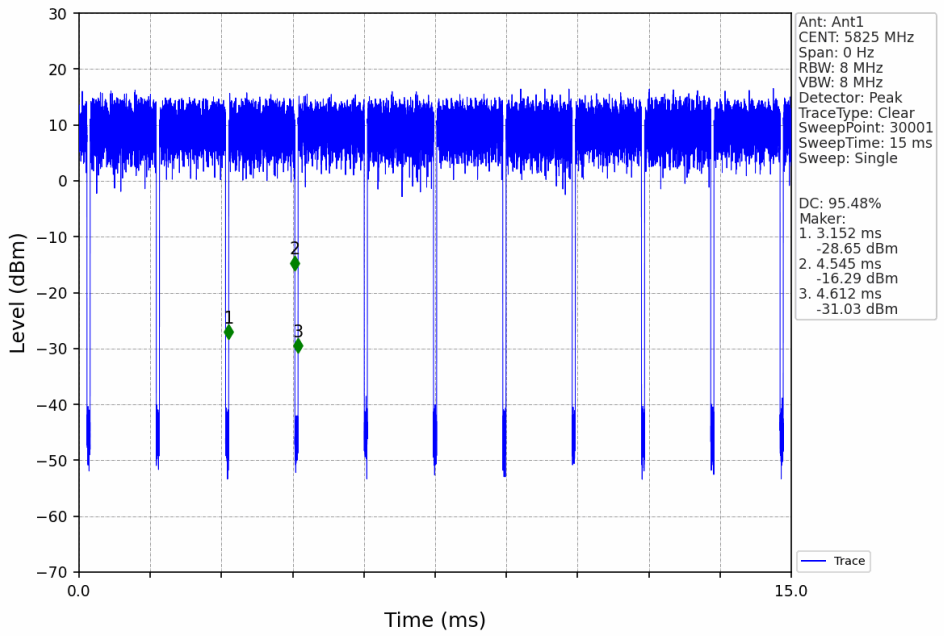
802.11a_LCH_5745MHz_Ant1_NTNV



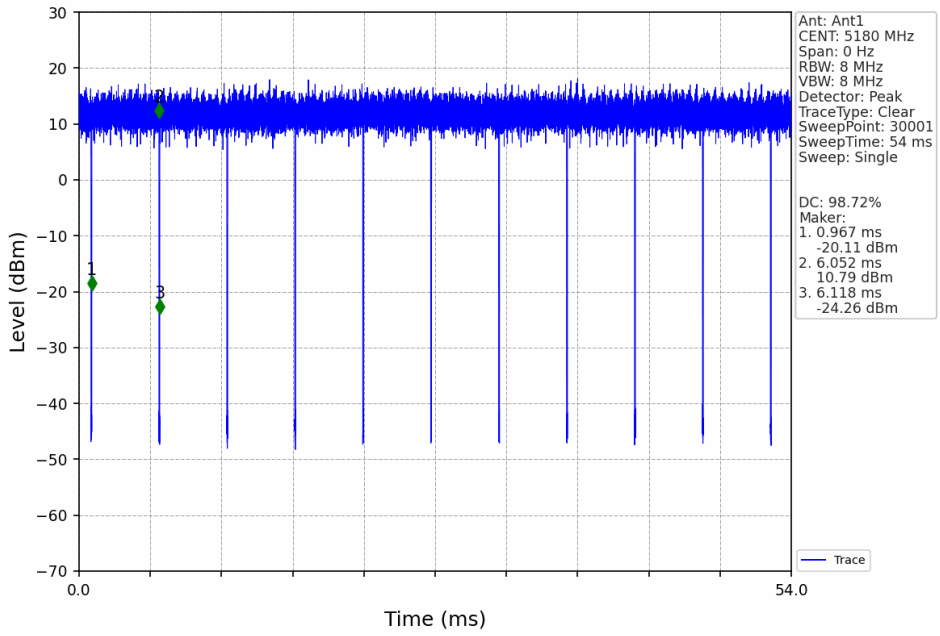
802.11a_MCH_5785MHz_Ant1_NTNV



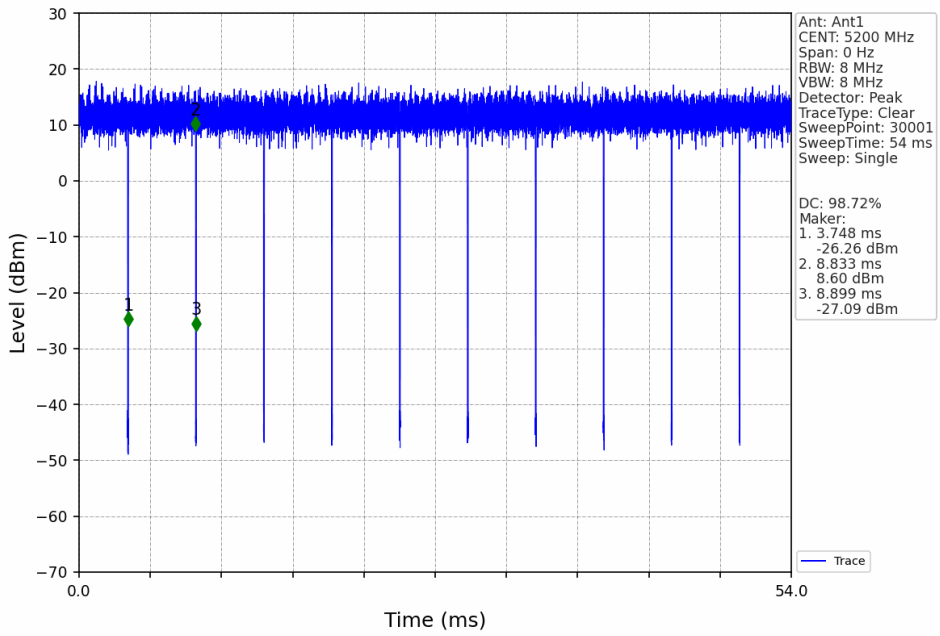
802.11a_HCH_5825MHz_Ant1_NTNV



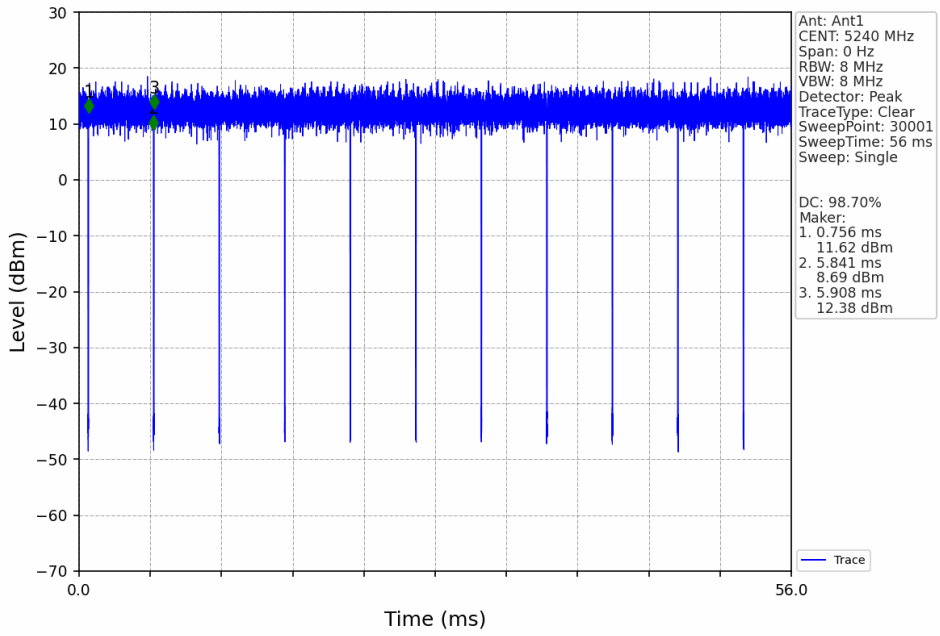
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



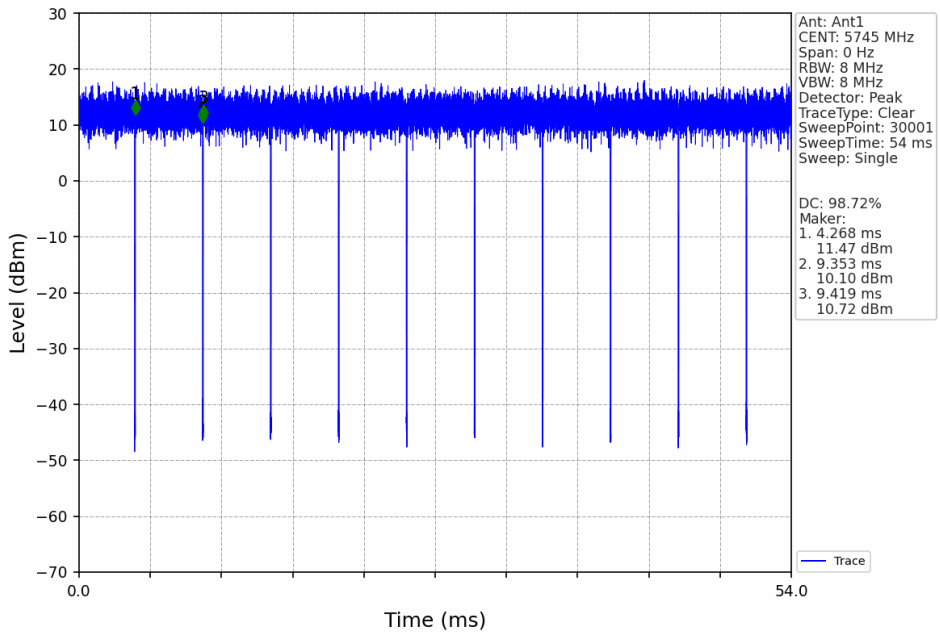
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



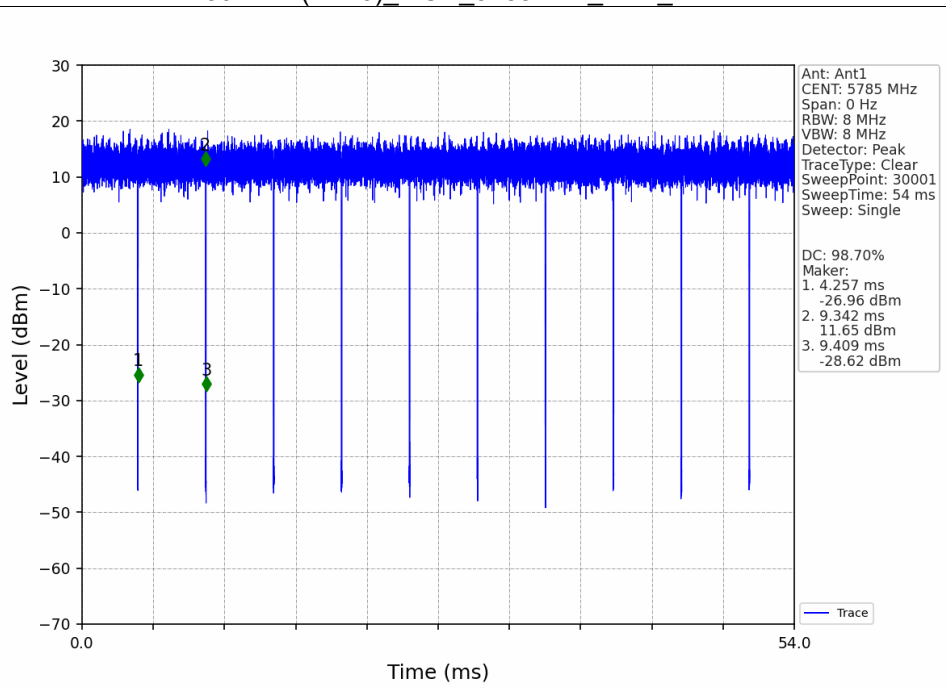
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



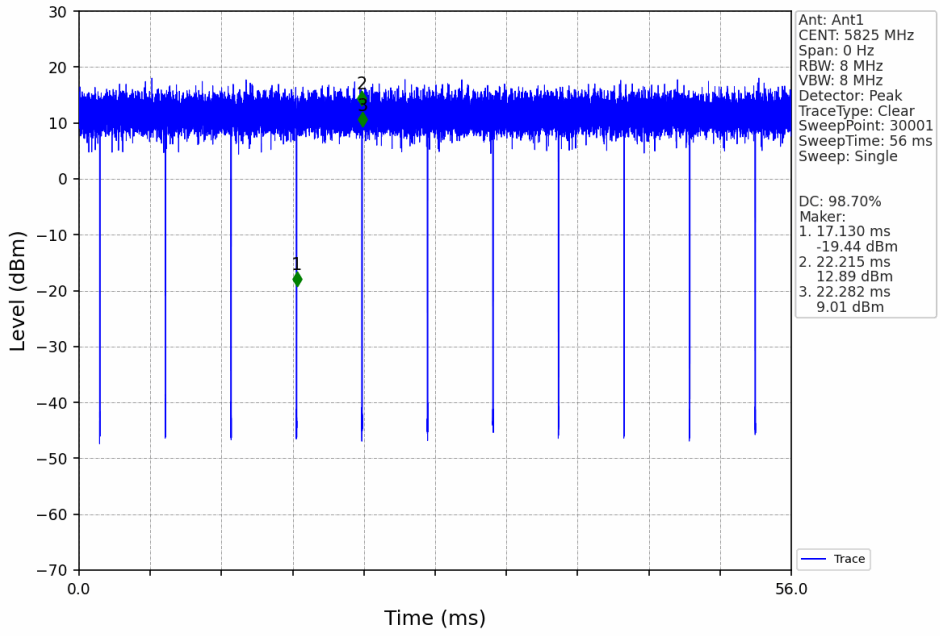
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



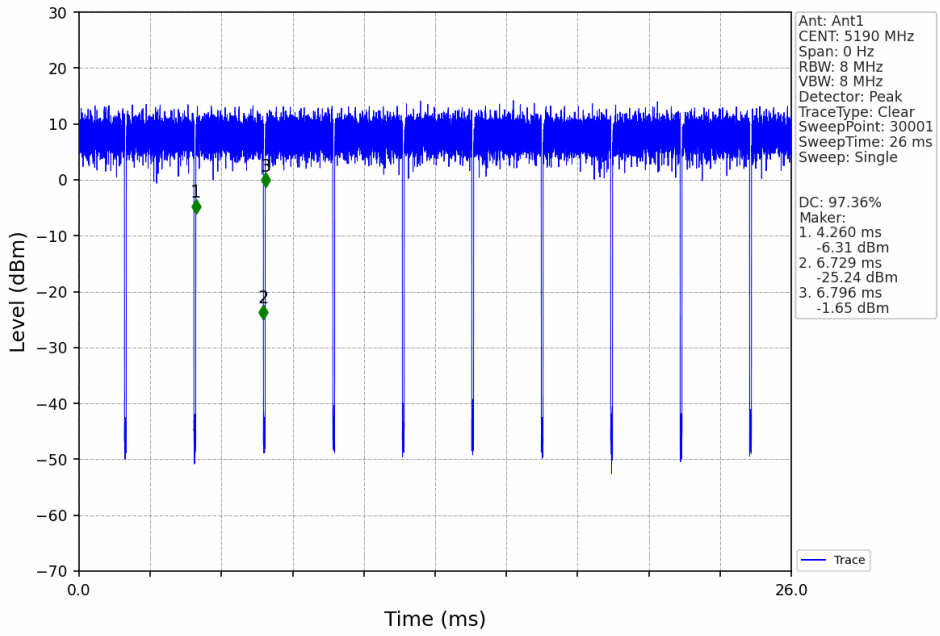
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



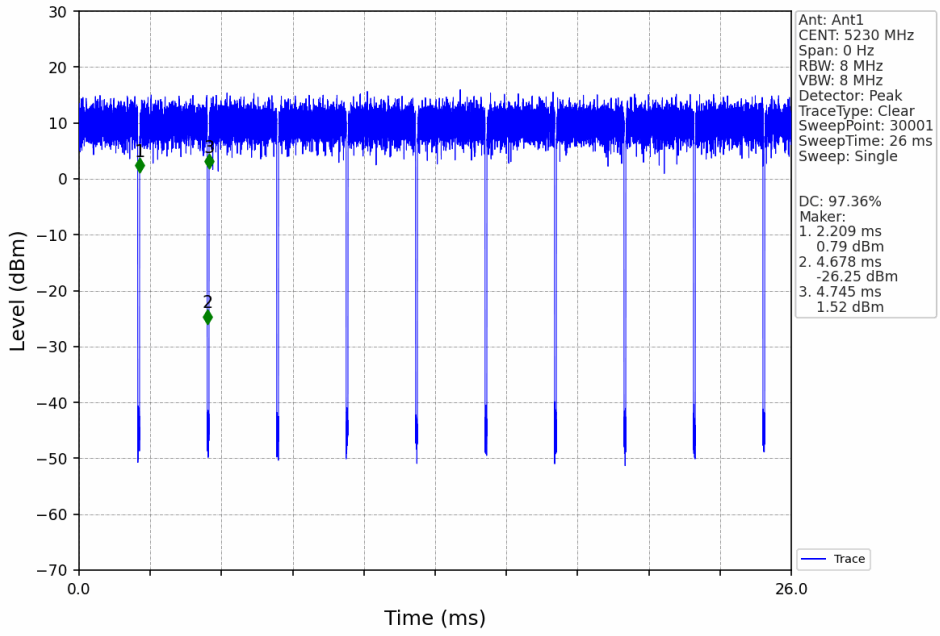
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



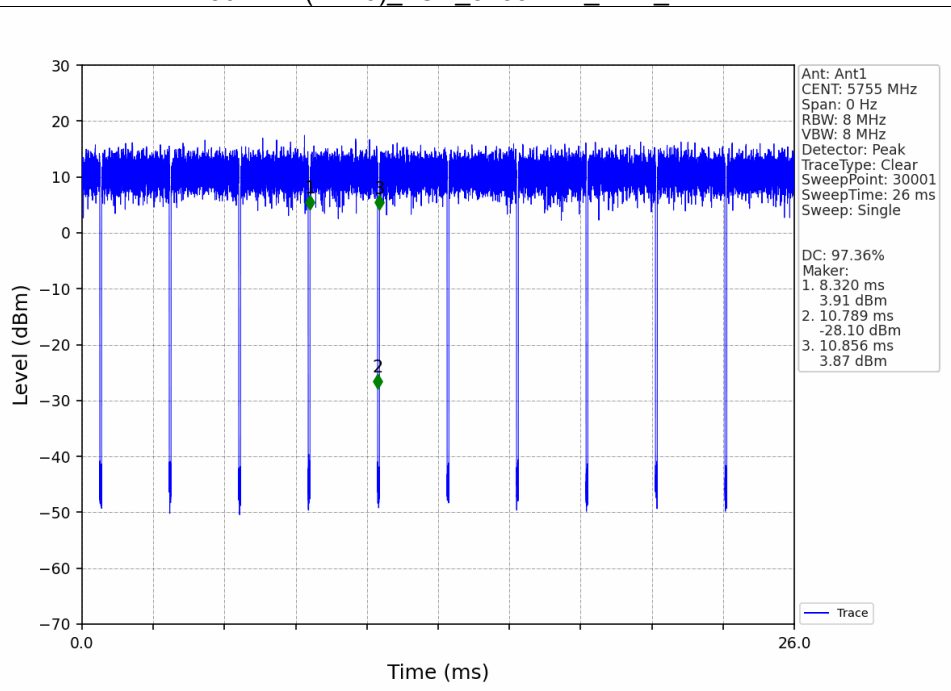
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



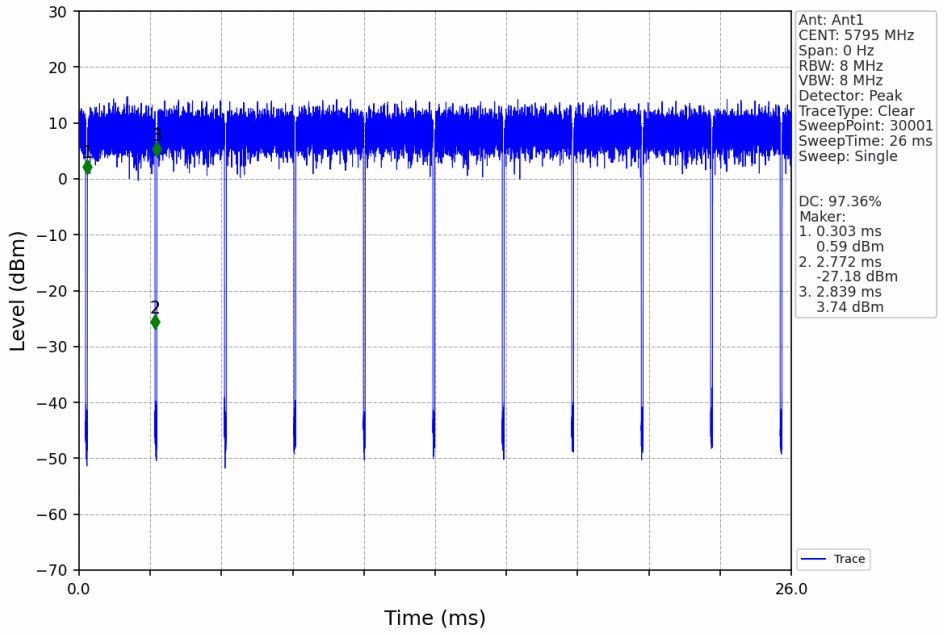
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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	5180	1	17.870	/	Pass
		5200	1	17.919	/	Pass
		5240	1	17.930	/	Pass
		5745	1	18.100	/	Pass
		5785	1	18.024	/	Pass
		5825	1	17.983	/	Pass
802.11n (HT20)	SISO	5180	1	18.509	/	Pass
		5200	1	18.523	/	Pass
		5240	1	18.589	/	Pass
		5745	1	18.611	/	Pass
		5785	1	18.571	/	Pass
		5825	1	18.576	/	Pass
802.11n (HT40)	SISO	5190	1	37.067	/	Pass
		5230	1	37.284	/	Pass
		5755	1	39.033	/	Pass
		5795	1	37.526	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.404	>=0.5	Pass
		5785	1	16.407	>=0.5	Pass
		5825	1	16.418	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.653	>=0.5	Pass
		5785	1	17.642	>=0.5	Pass
		5825	1	17.668	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.061	>=0.5	Pass
		5795	1	35.588	>=0.5	Pass

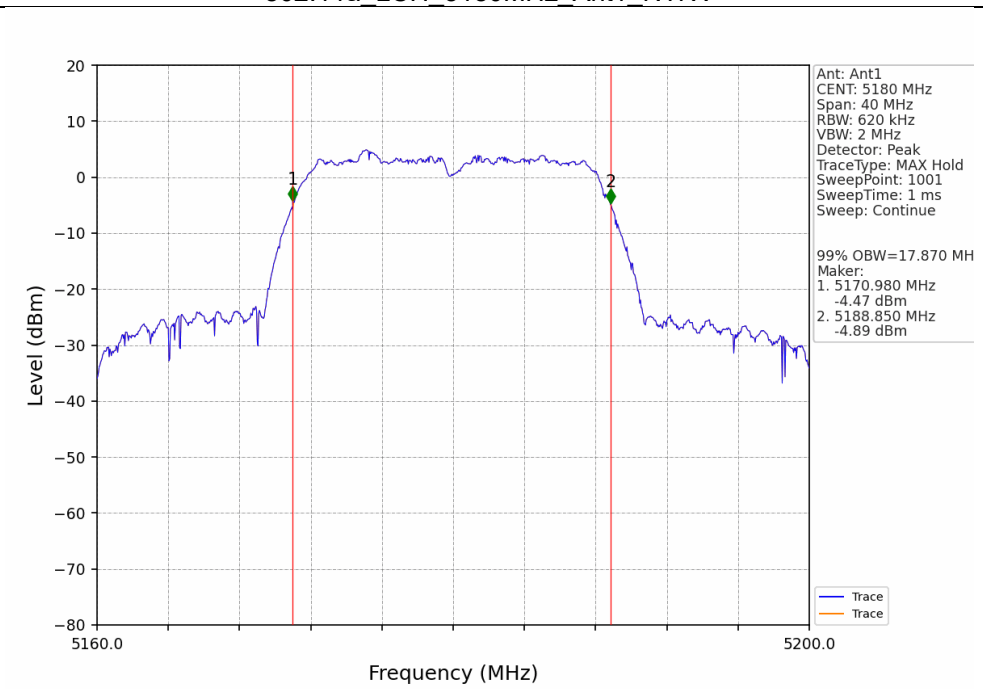
2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.394	/	Pass
		5200	1	20.400	/	Pass
		5240	1	20.503	/	Pass
802.11n (HT20)	SISO	5180	1	20.571	/	Pass
		5200	1	20.603	/	Pass
		5240	1	20.555	/	Pass
802.11n (HT40)	SISO	5190	1	40.737	/	Pass
		5230	1	46.820	/	Pass

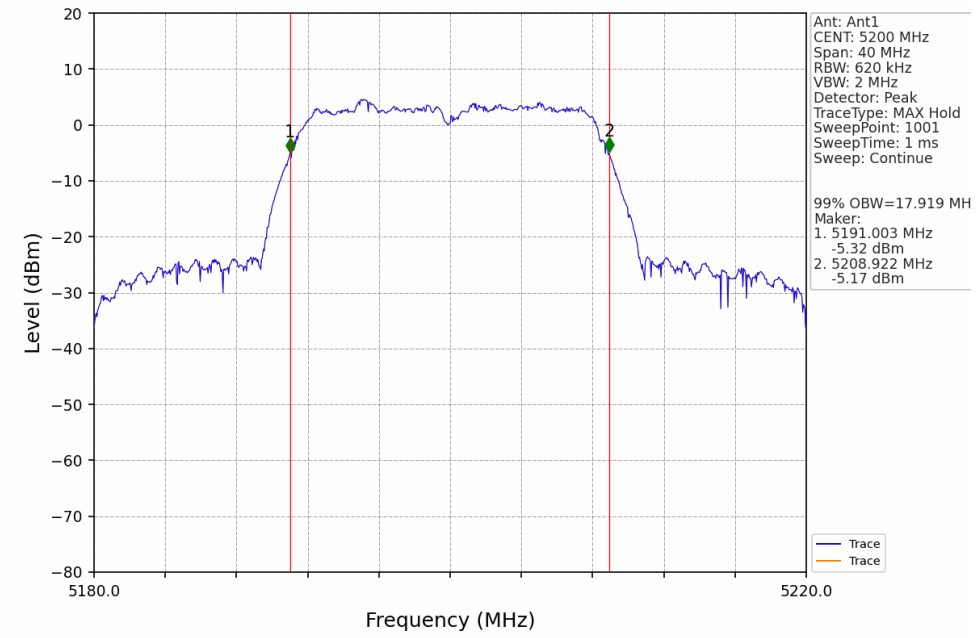
2.2 Test Graph

2.2.1 OBW

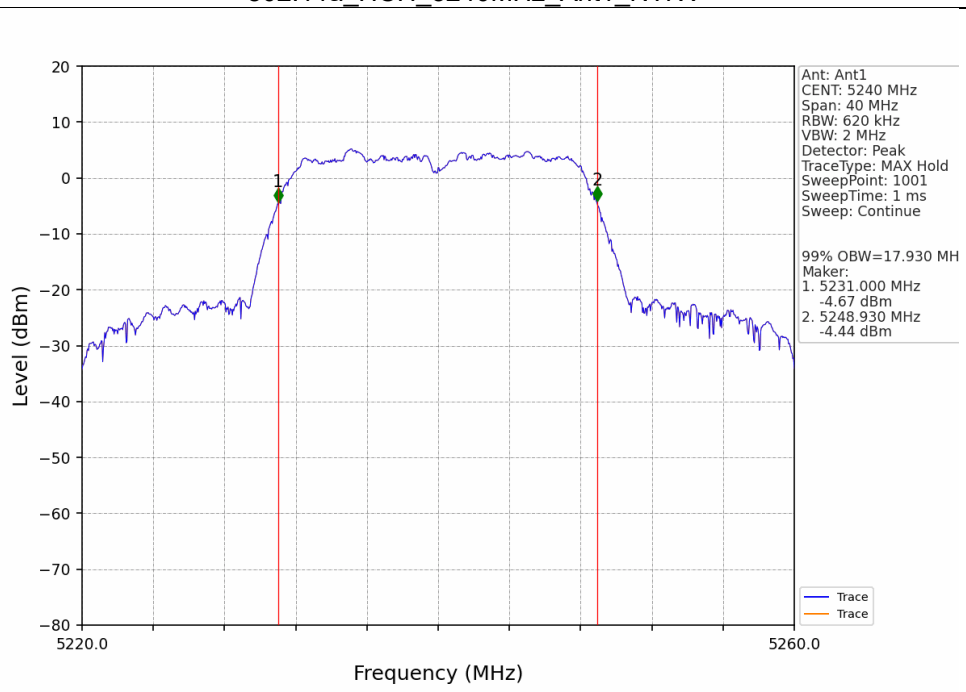
802.11a_LCH_5180MHz_Ant1_NTNV



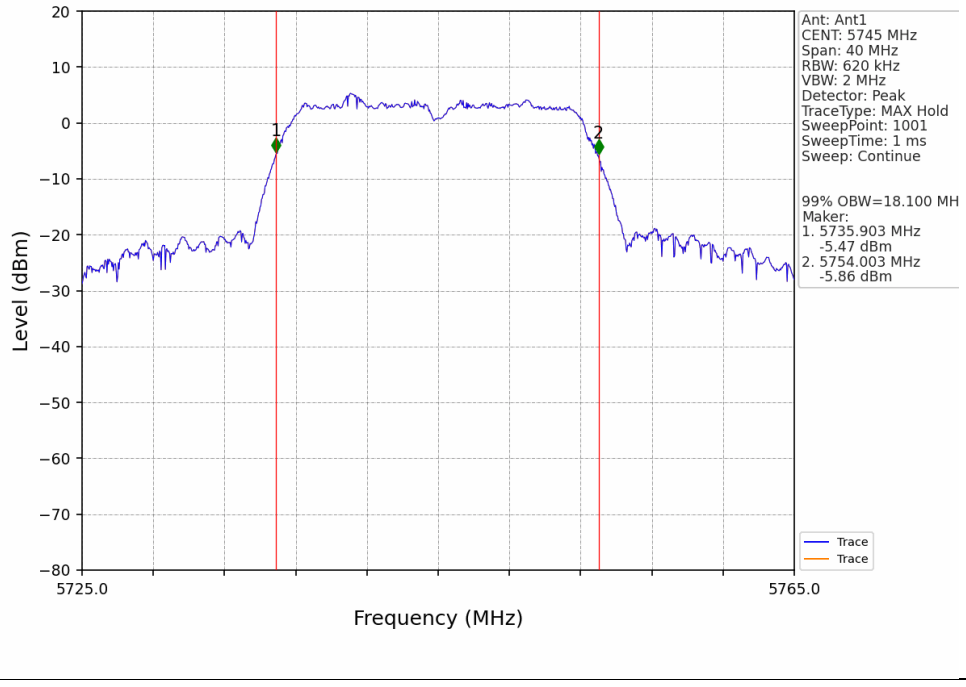
802.11a_MCH_5200MHz_Ant1_NTNV



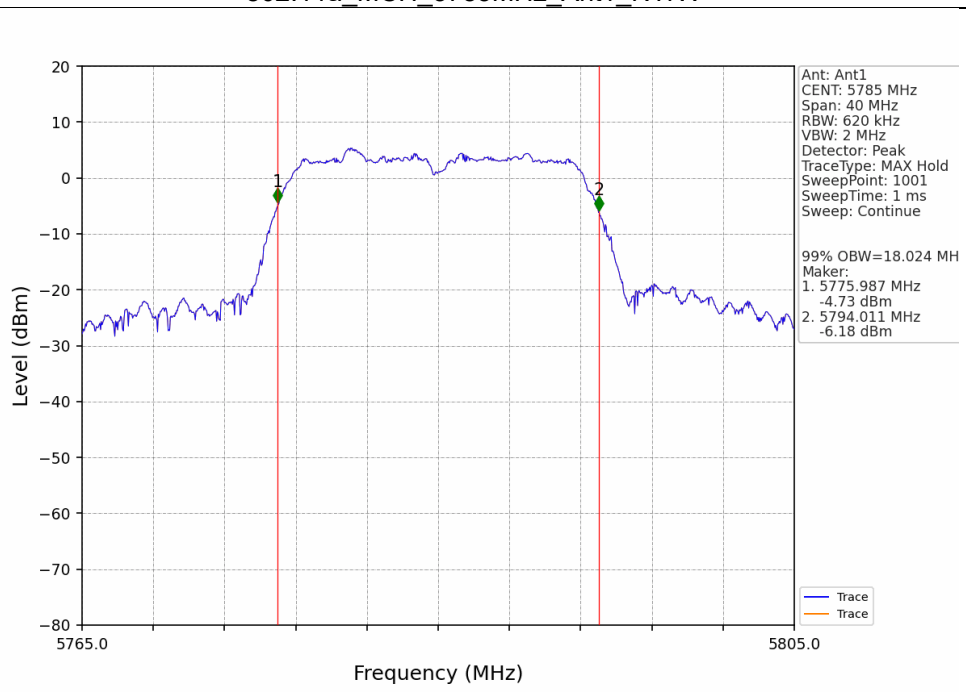
802.11a_HCH_5240MHz_Ant1_NTNV



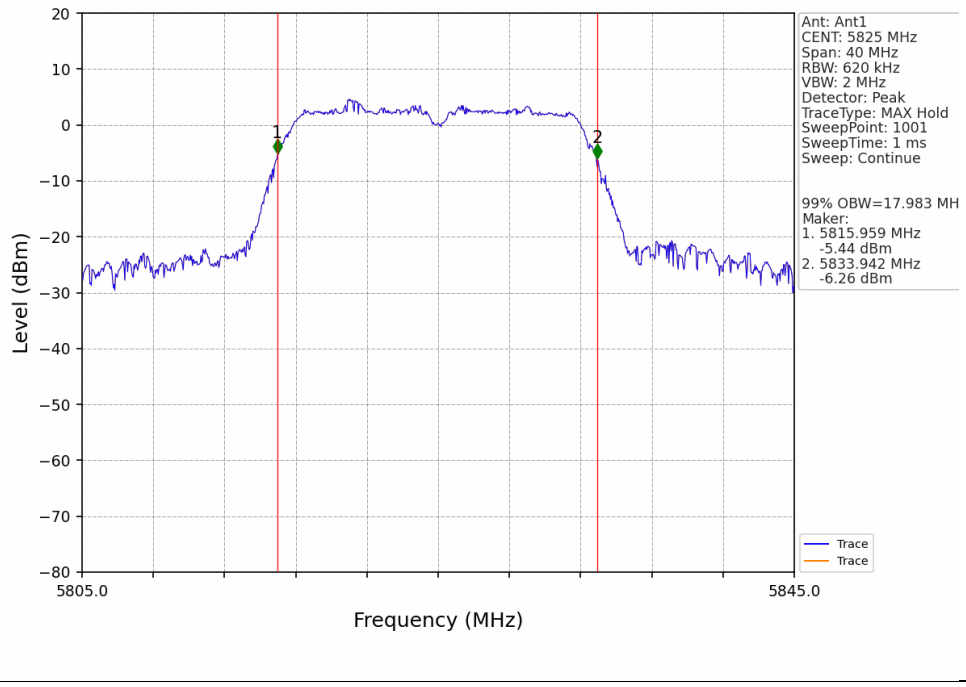
802.11a_LCH_5745MHz_Ant1_NTNV



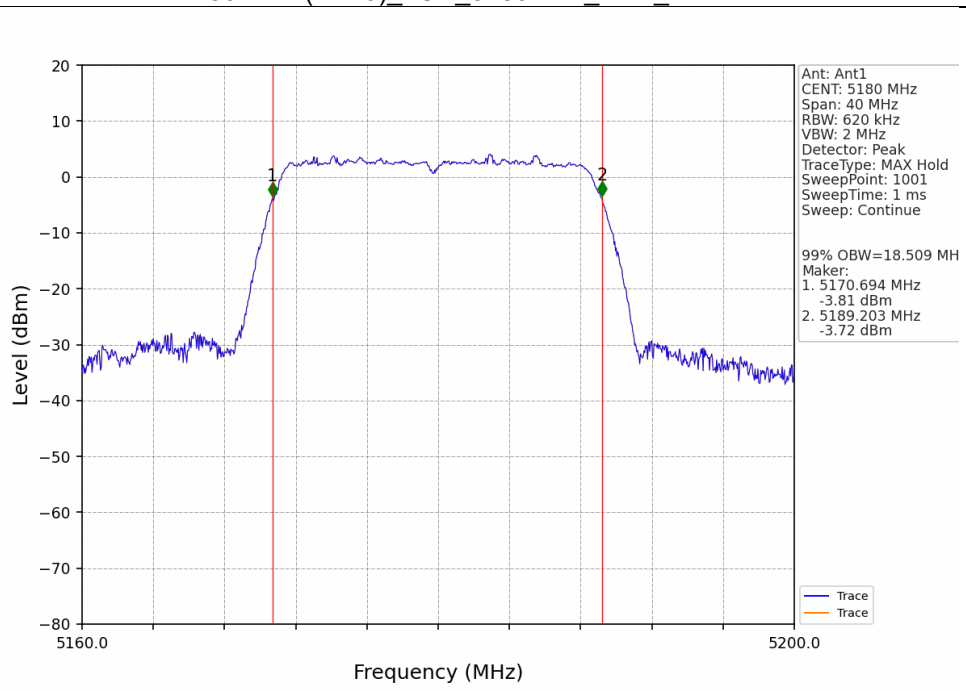
802.11a_MCH_5785MHz_Ant1_NTNV



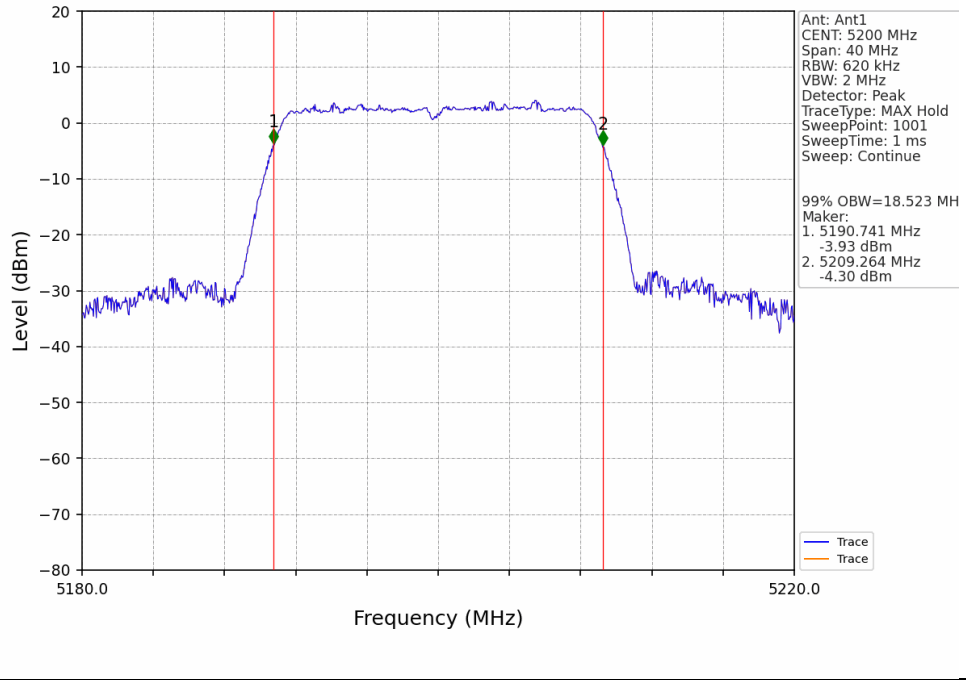
802.11a_HCH_5825MHz_Ant1_NTNV



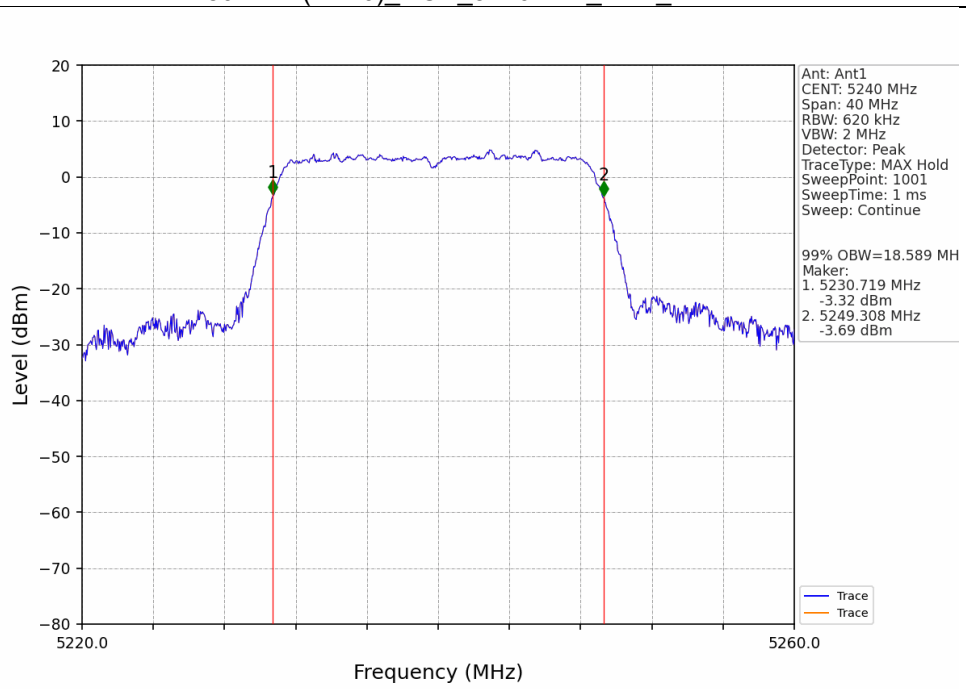
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



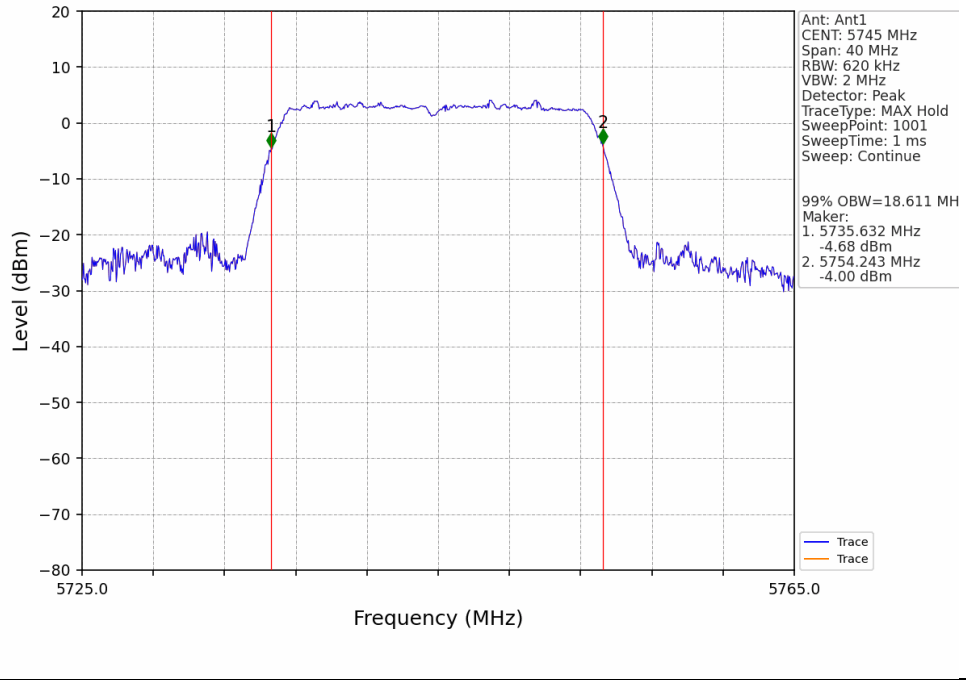
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



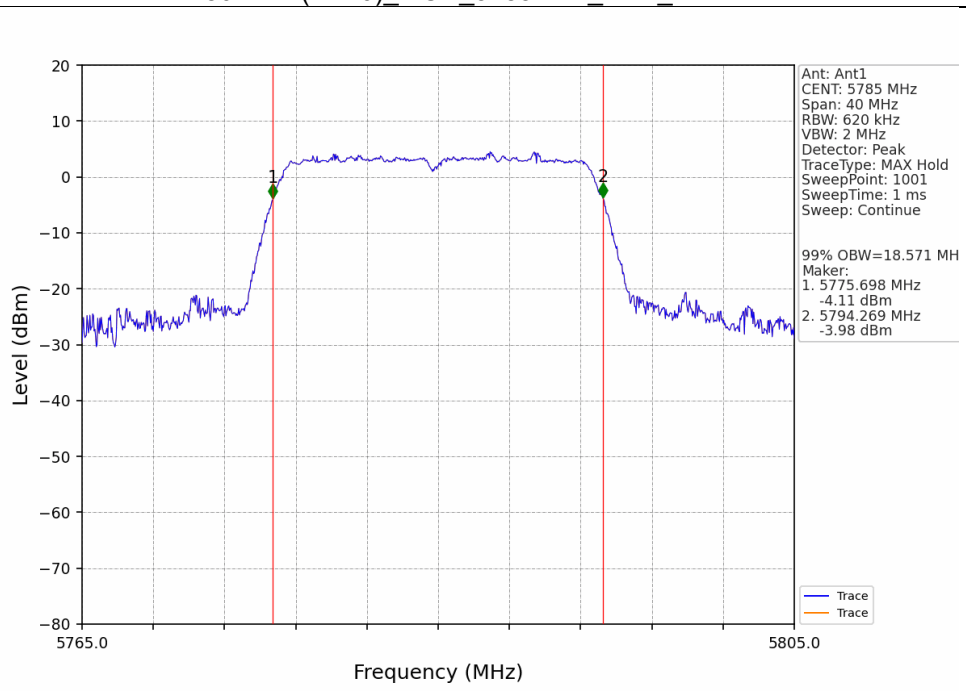
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



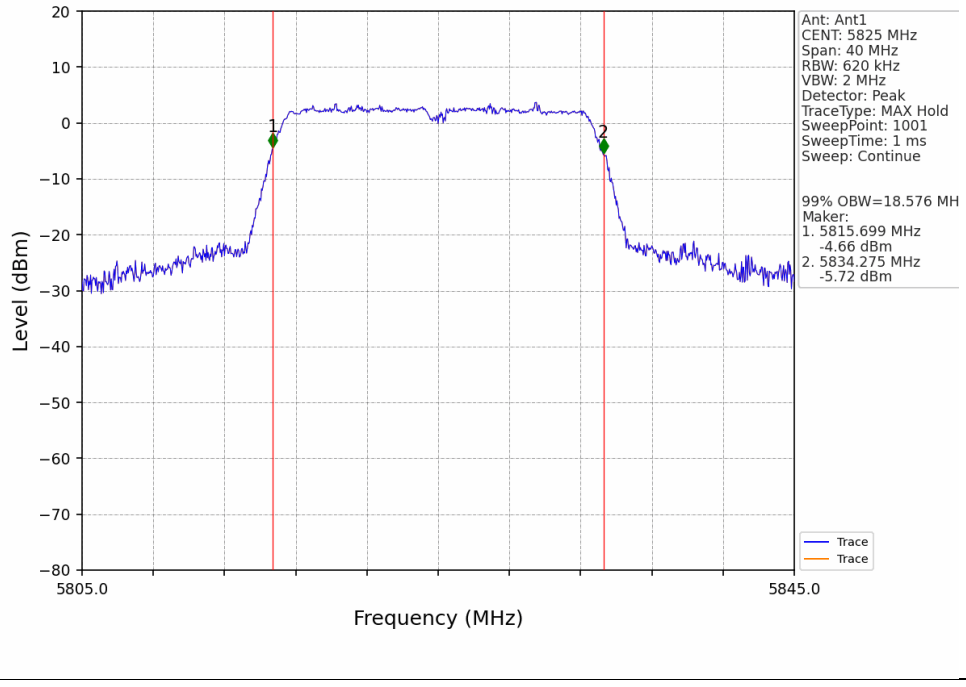
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



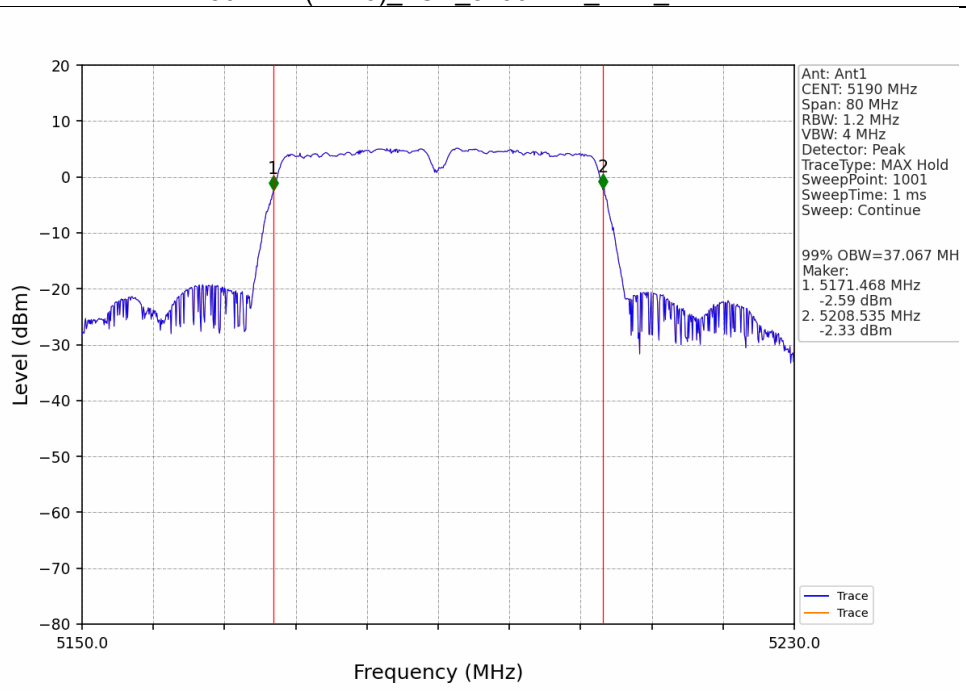
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



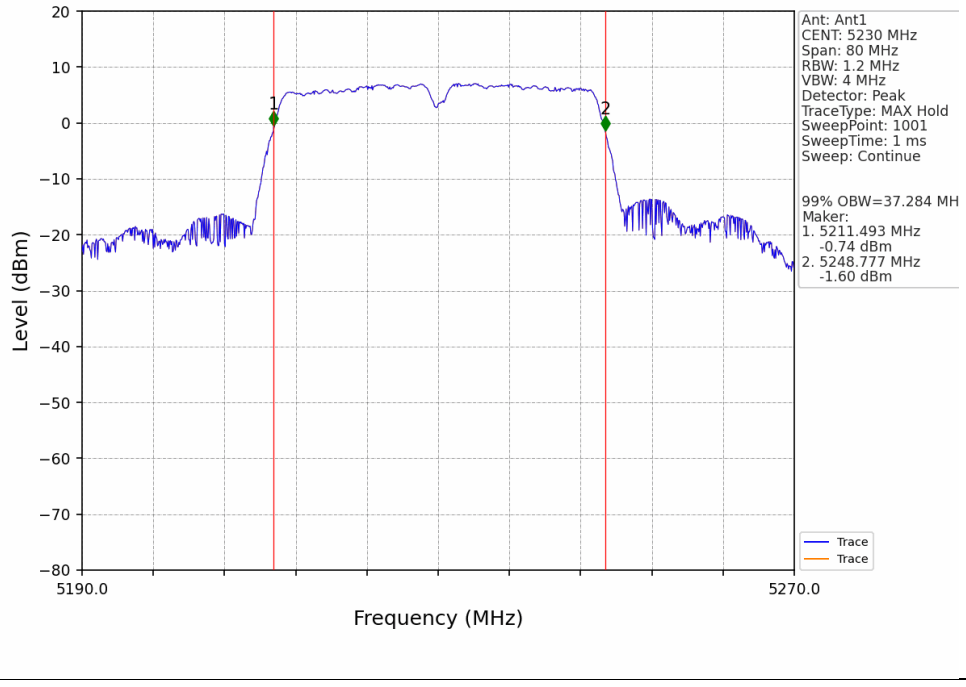
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



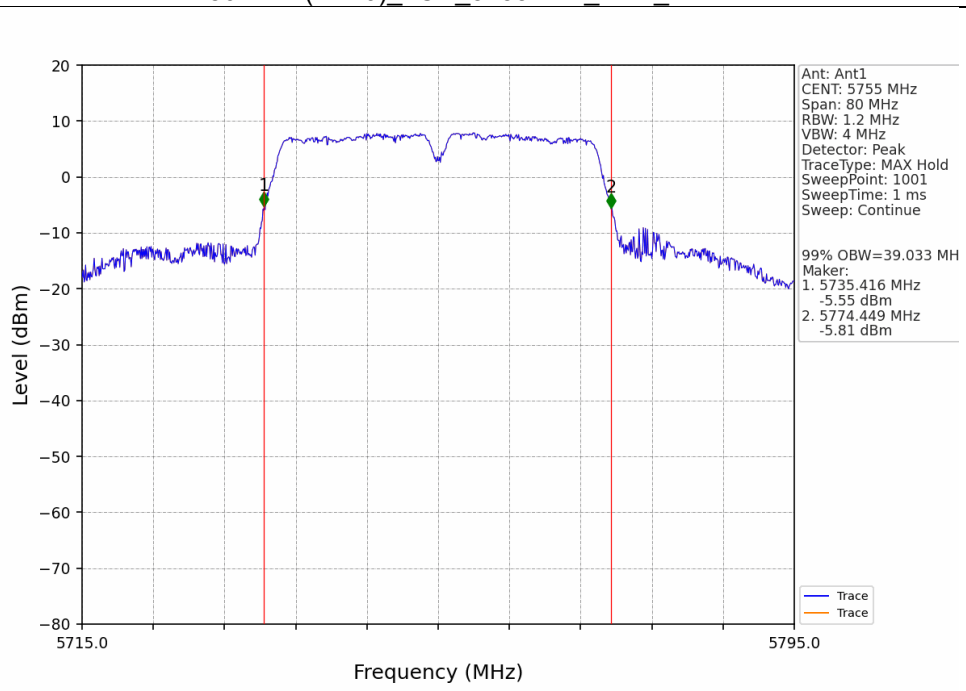
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



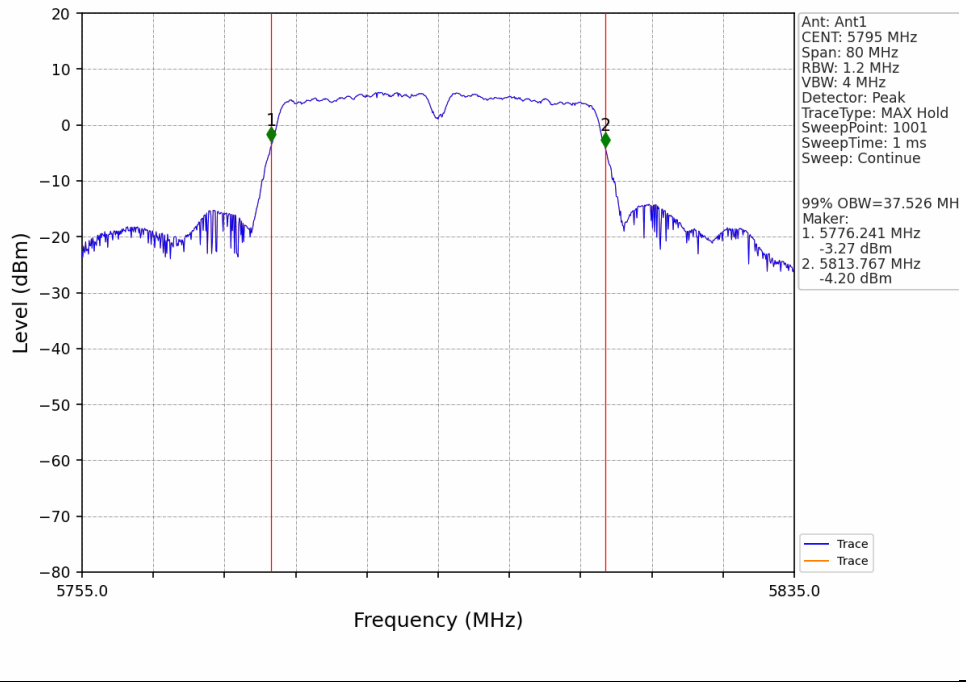
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

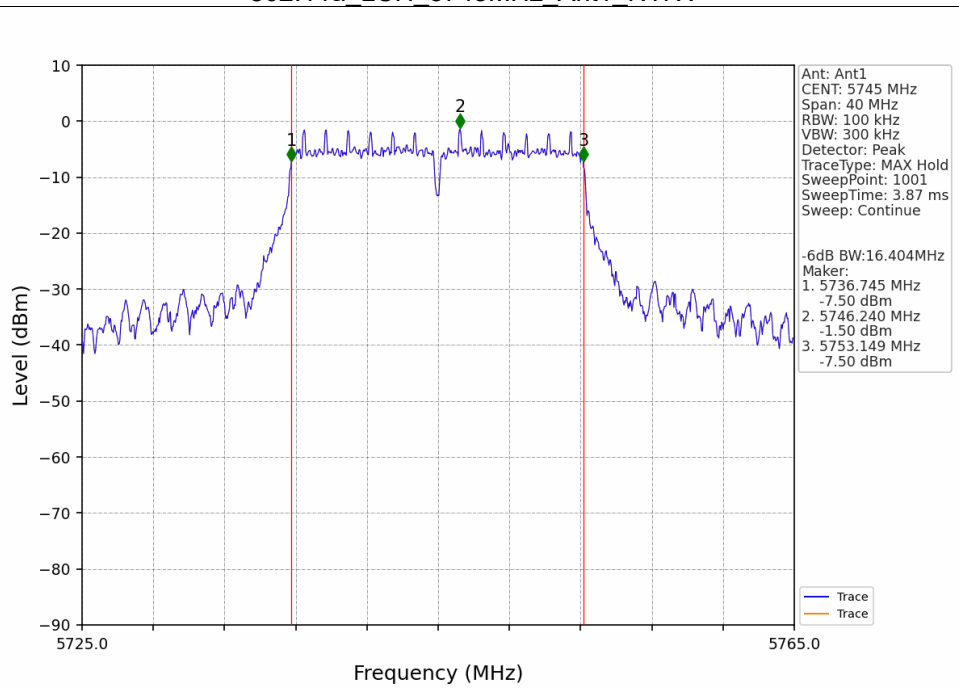


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

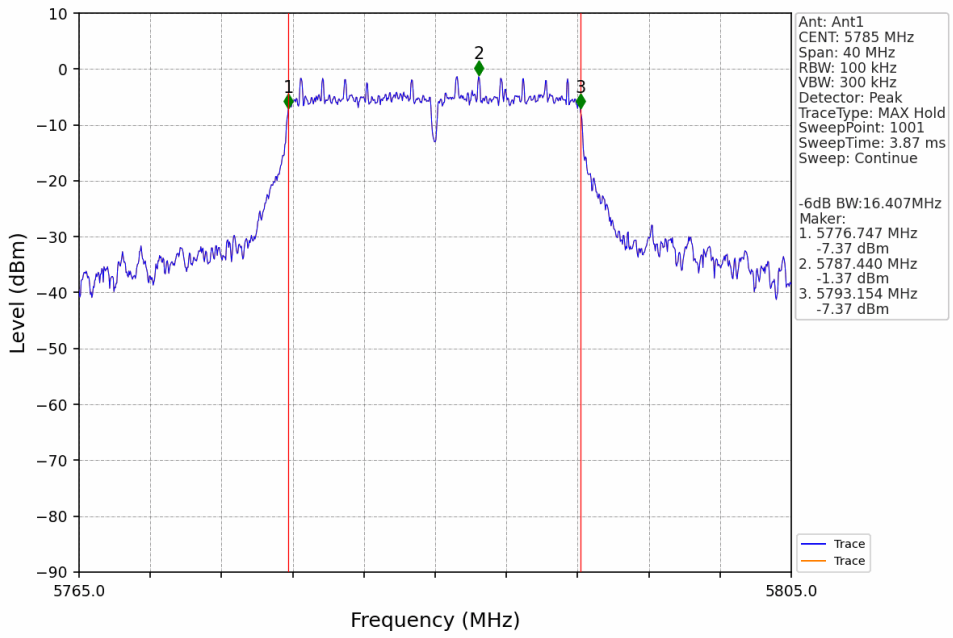


2.2.2 6dB BW

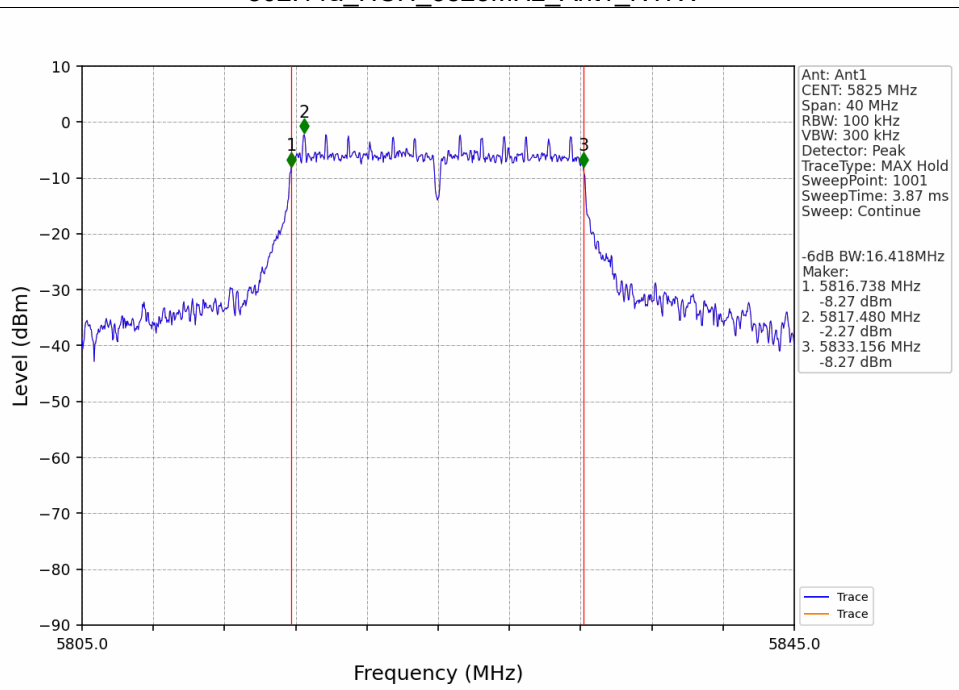
802.11a_LCH_5745MHz_Ant1_NTNV



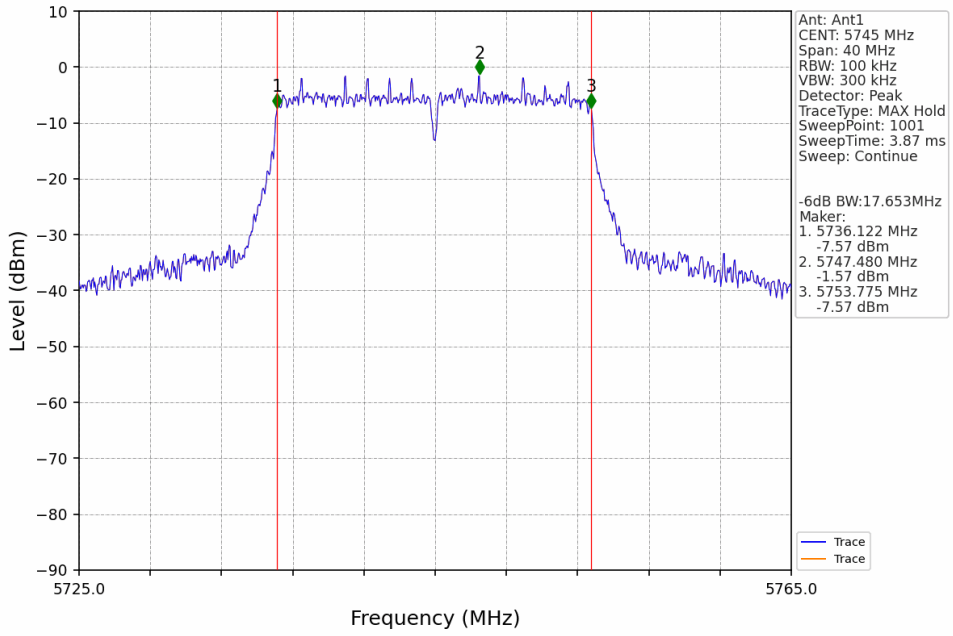
802.11a_MCH_5785MHz_Ant1_NTNV



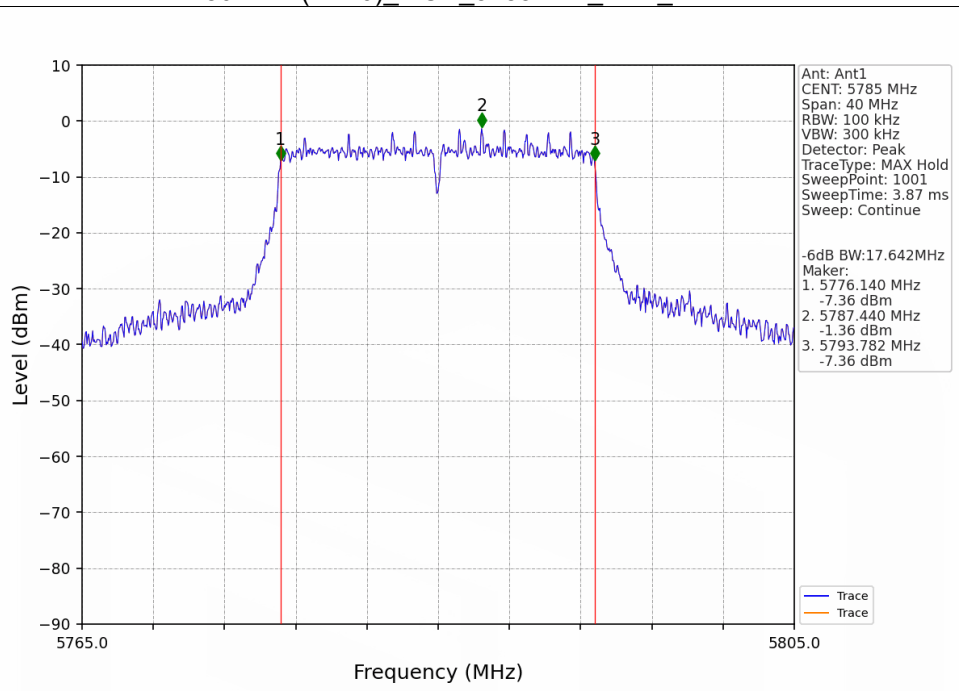
802.11a_HCH_5825MHz_Ant1_NTNV



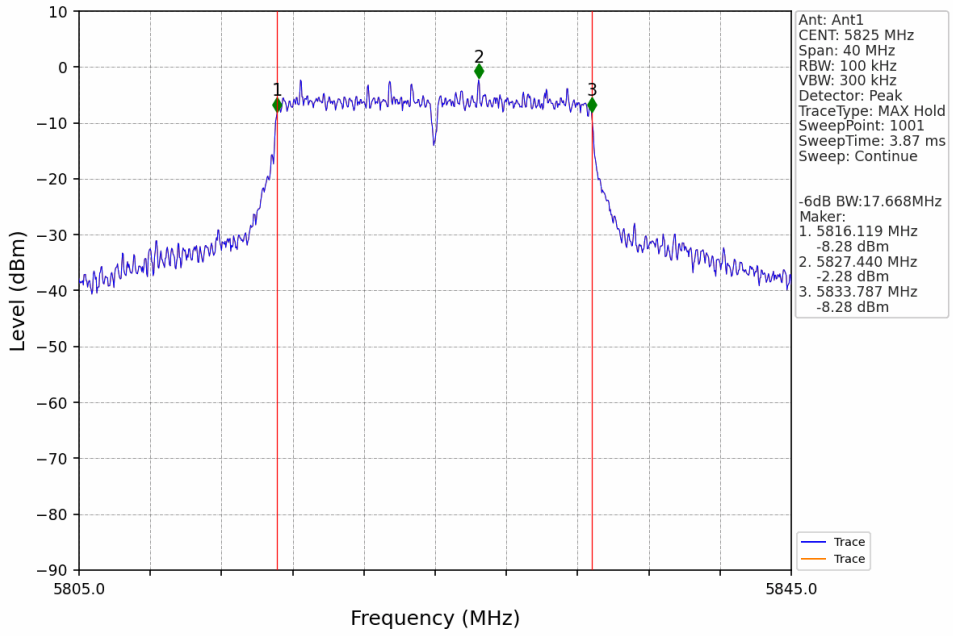
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



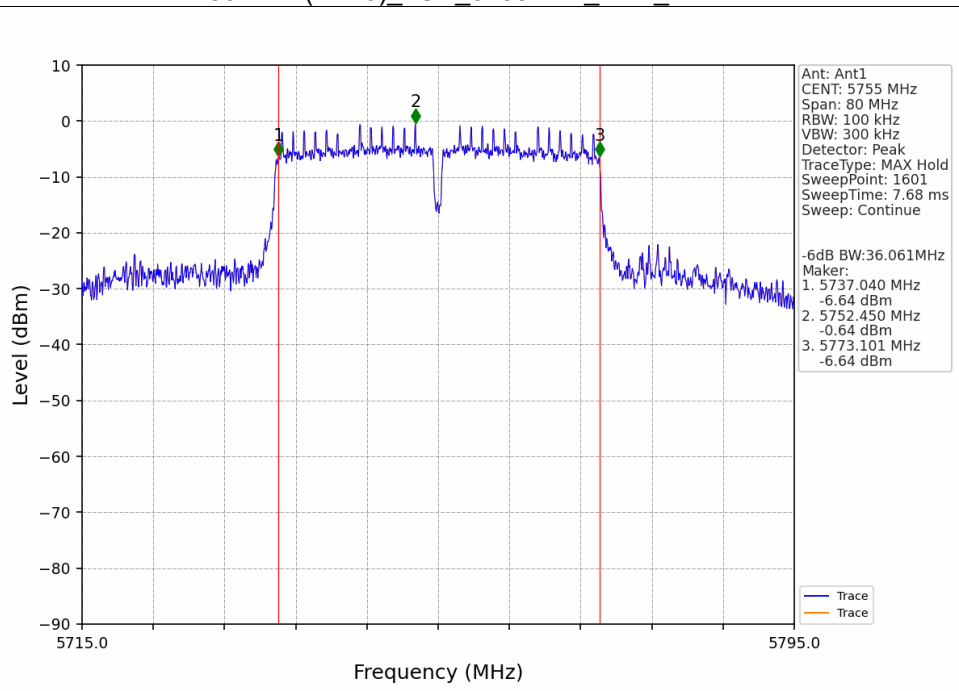
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



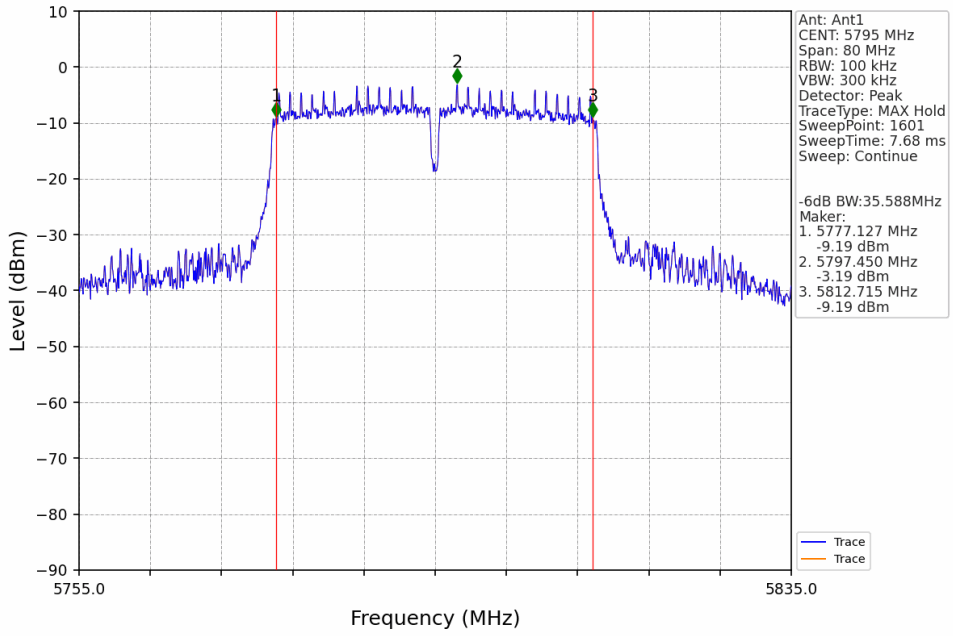
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

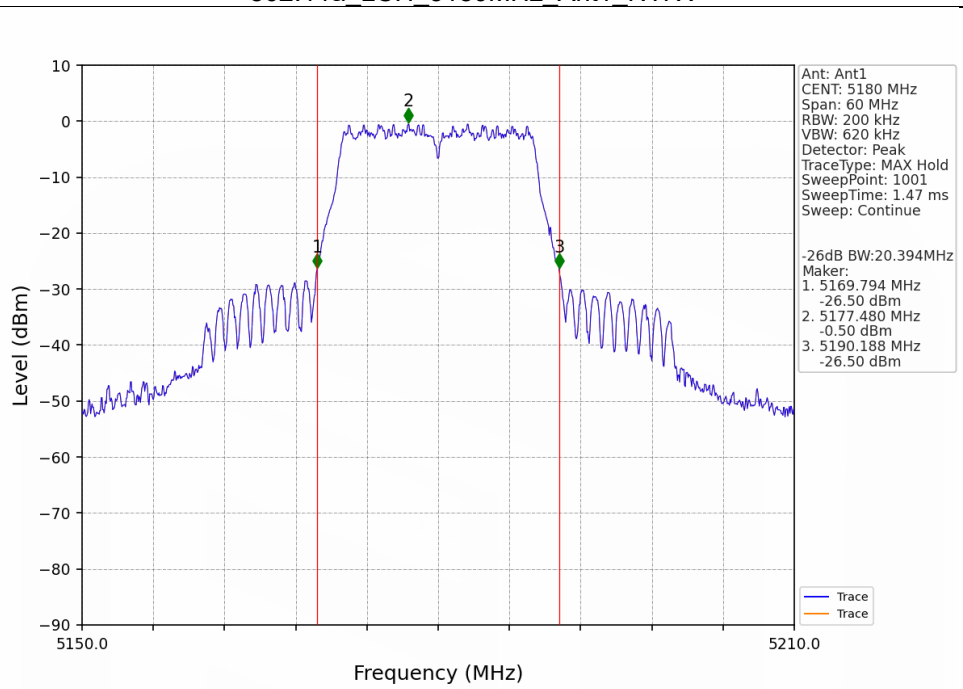


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

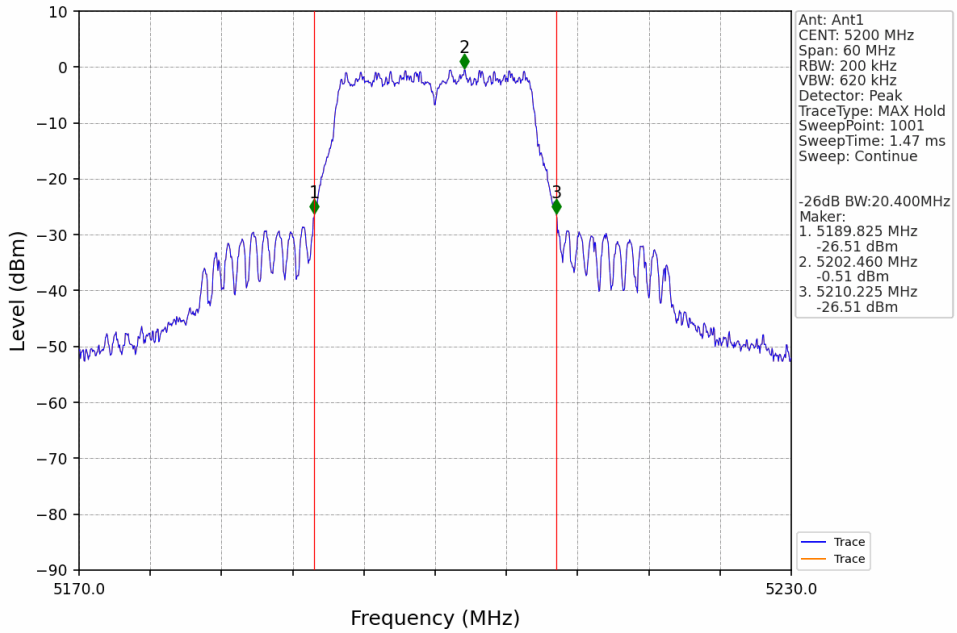


2.2.3 26dB BW

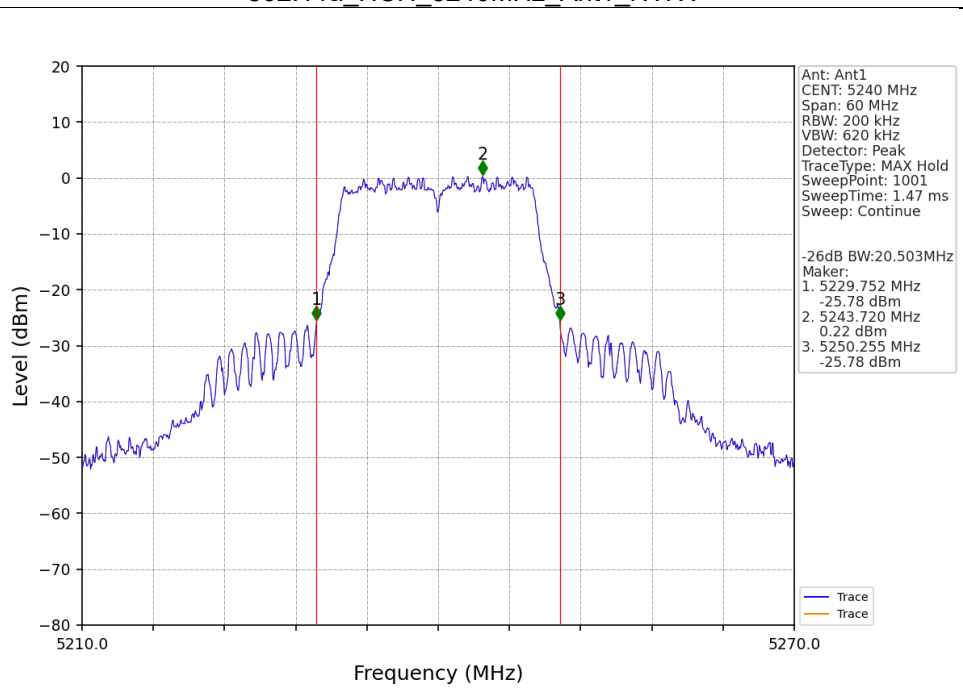
802.11a_LCH_5180MHz_Ant1_NTNV



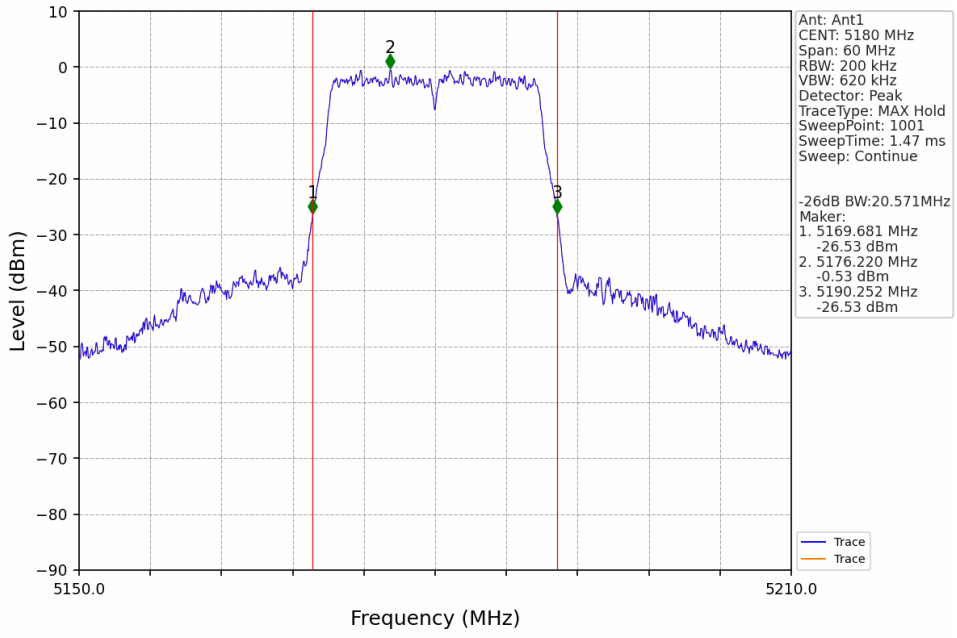
802.11a_MCH_5200MHz_Ant1_NTNV



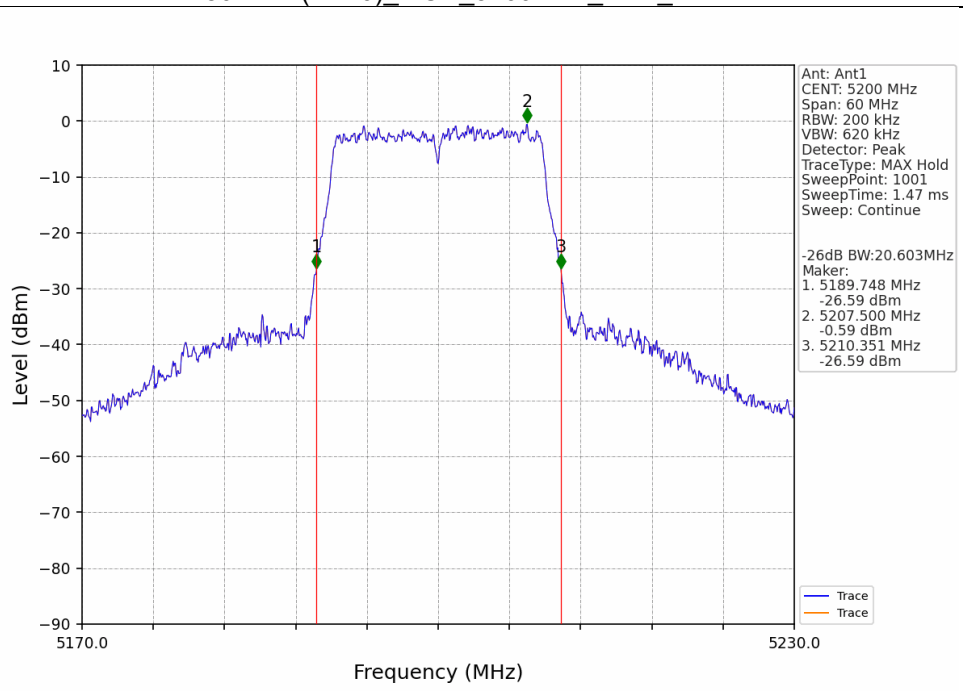
802.11a_HCH_5240MHz_Ant1_NTNV



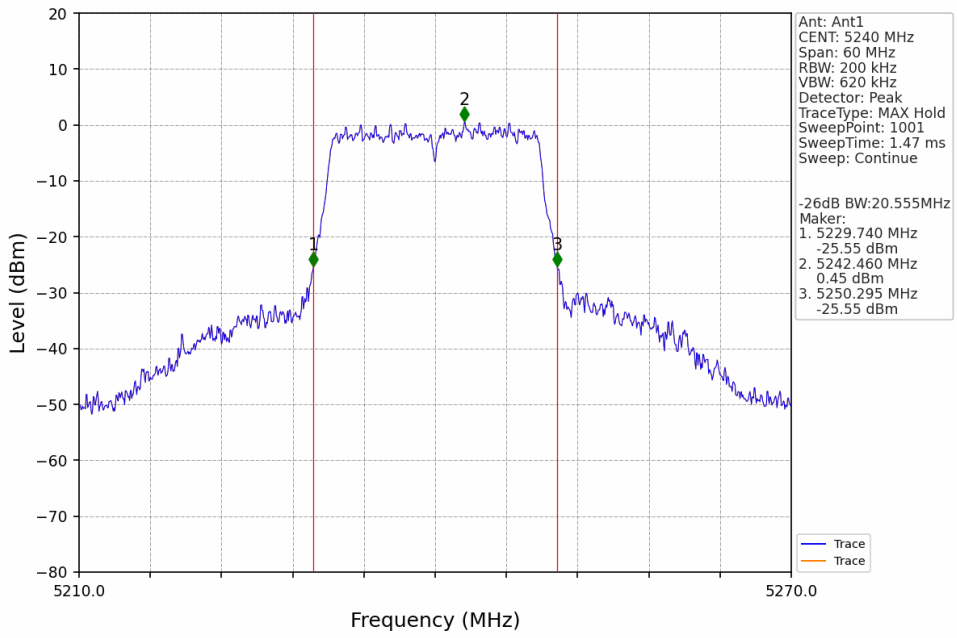
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



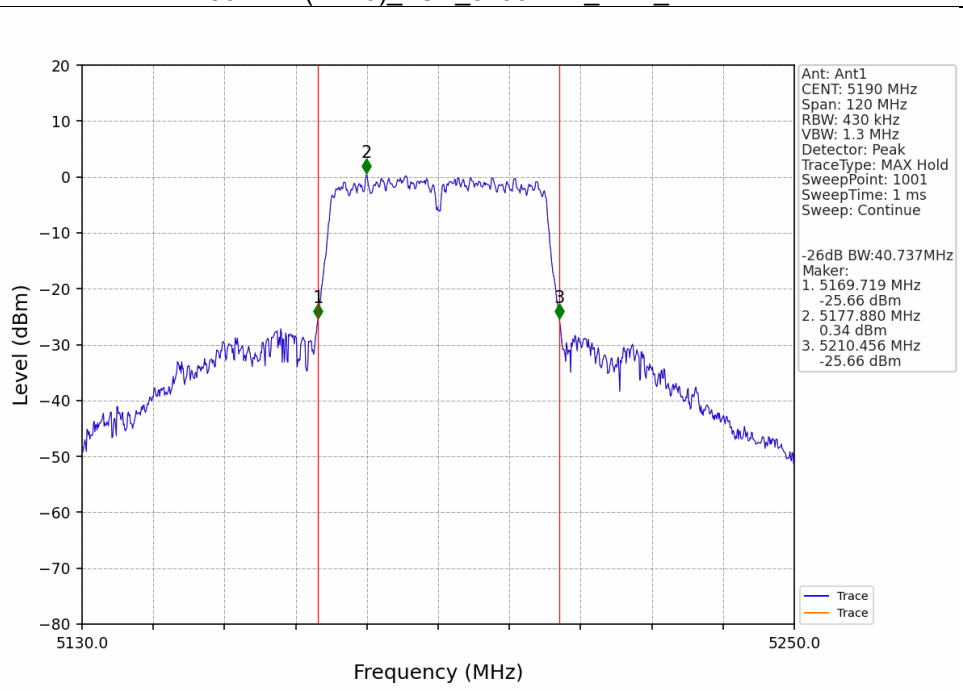
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



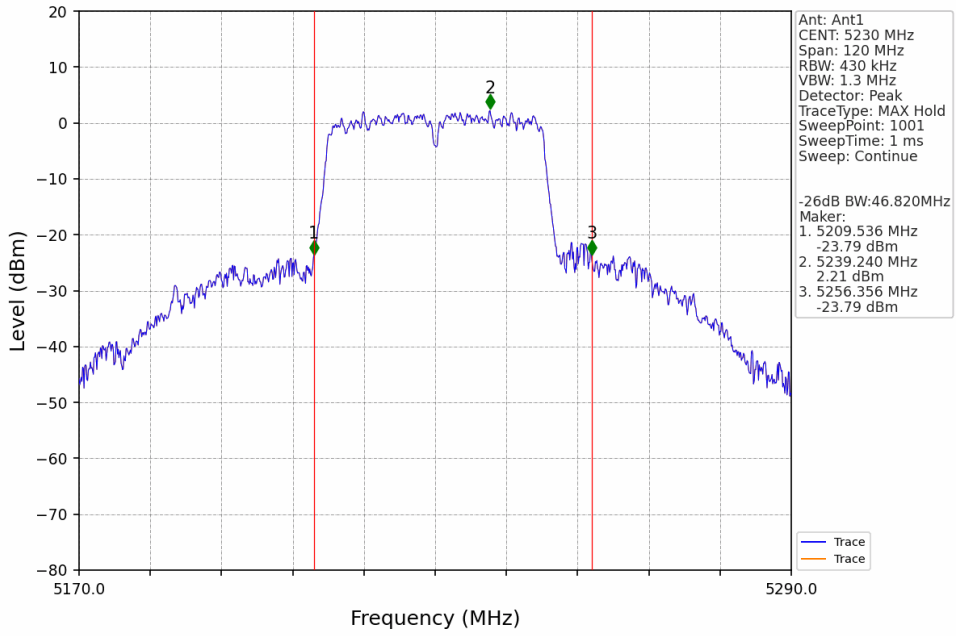
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

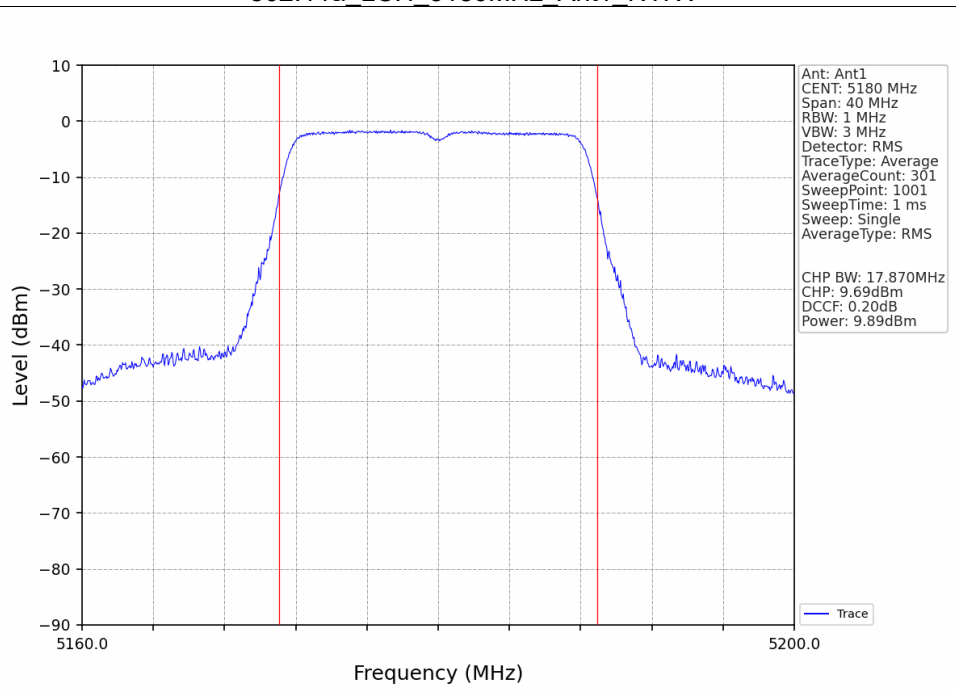
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	9.89	<=23.98	Pass
		5200	9.79	<=23.98	Pass
		5240	10.49	<=23.98	Pass
		5745	10.02	<=30	Pass
		5785	10.18	<=30	Pass
		5825	9.37	<=30	Pass
802.11n (HT20)	SISO	5180	9.88	<=23.98	Pass
		5200	9.85	<=23.98	Pass
		5240	10.65	<=23.98	Pass
		5745	10.02	<=30	Pass
		5785	10.22	<=30	Pass
		5825	9.39	<=30	Pass
802.11n (HT40)	SISO	5190	10.38	<=23.98	Pass
		5230	12.25	<=23.98	Pass
		5755	13.12	<=30	Pass
		5795	10.59	<=30	Pass

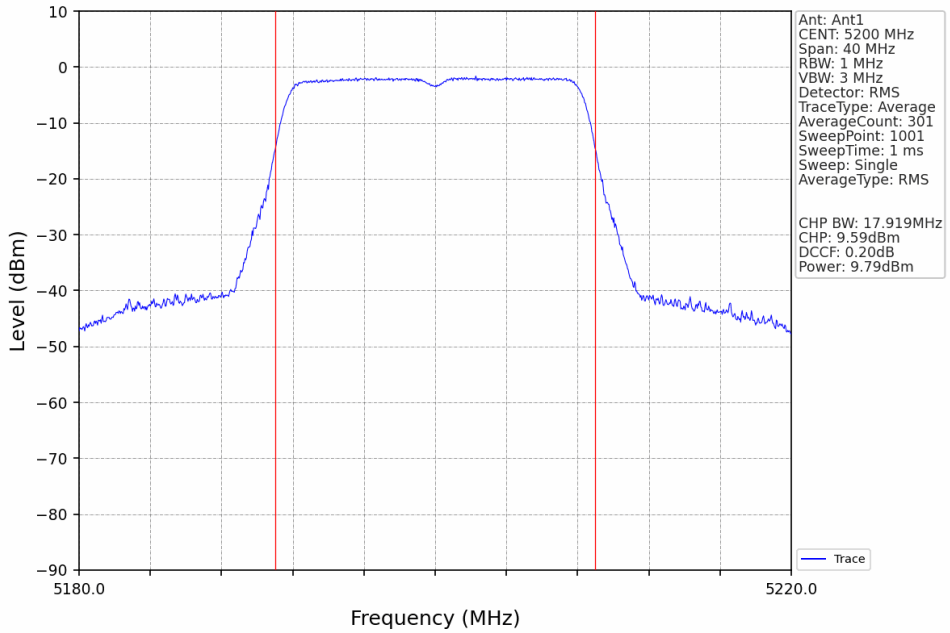
3.2 Test Graph

3.2.1 Power

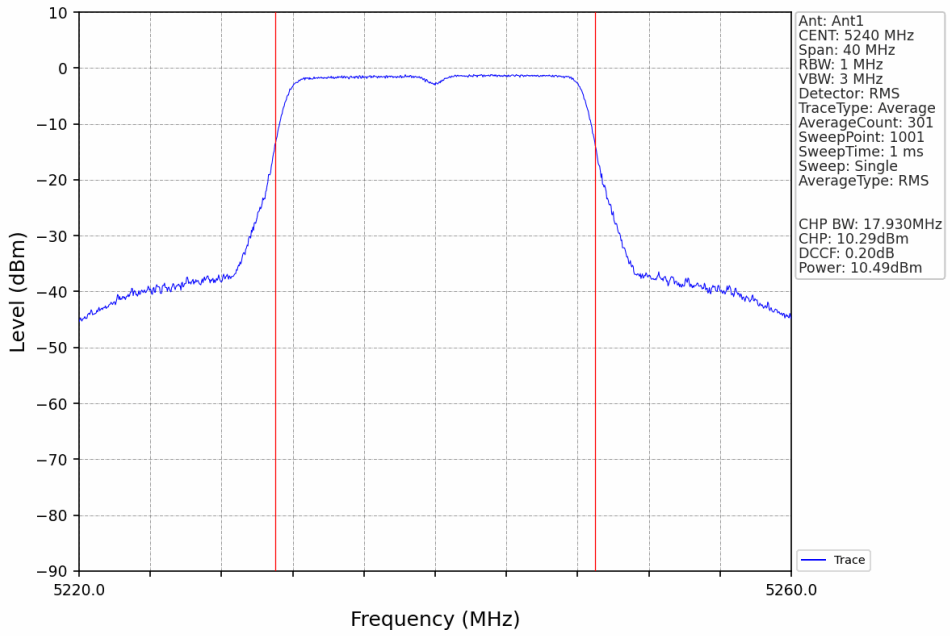
802.11a_LCH_5180MHz_Ant1_NTNV



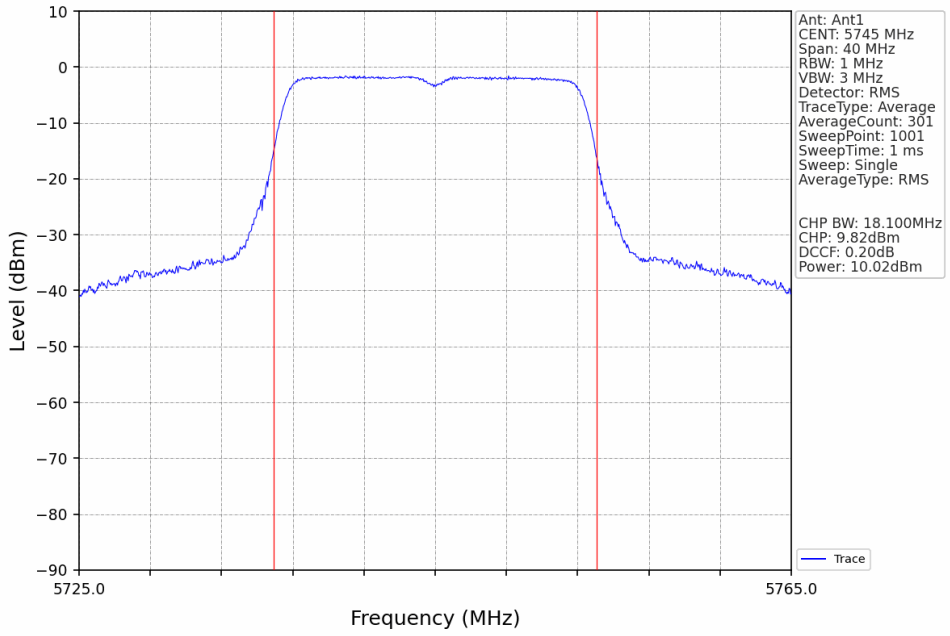
802.11a_MCH_5200MHz_Ant1_NTNV



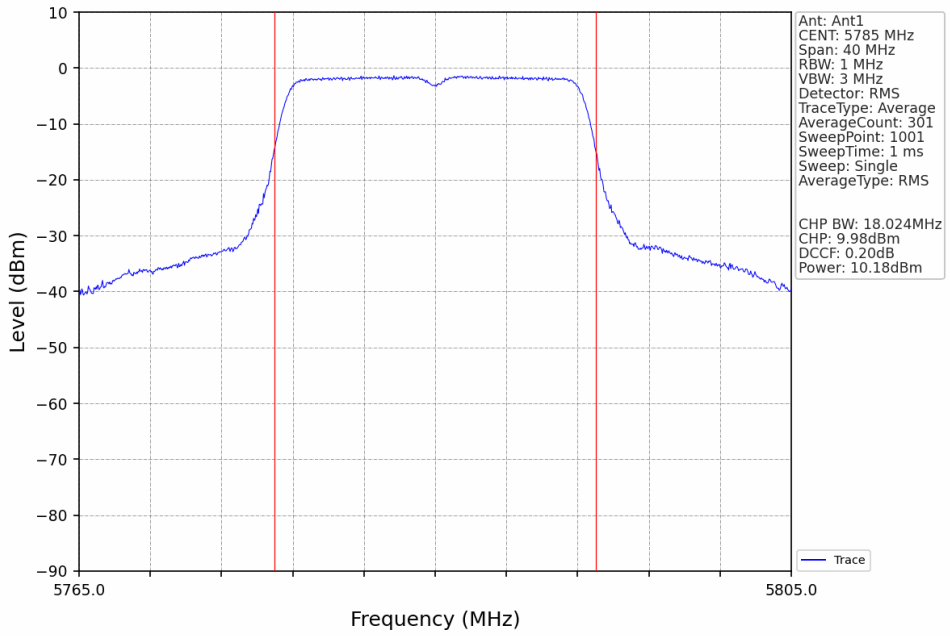
802.11a_HCH_5240MHz_Ant1_NTNV



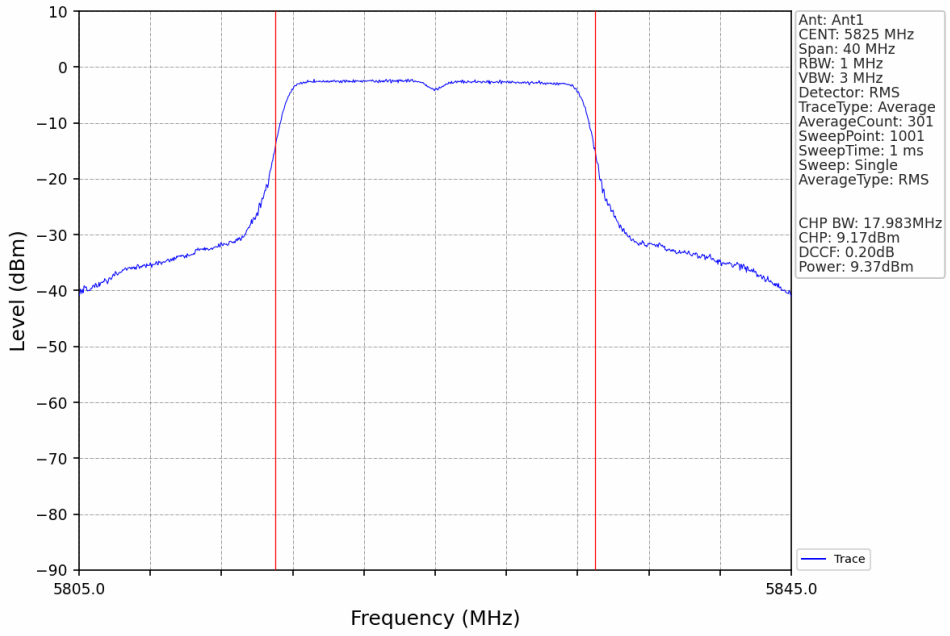
802.11a_LCH_5745MHz_Ant1_NTNV



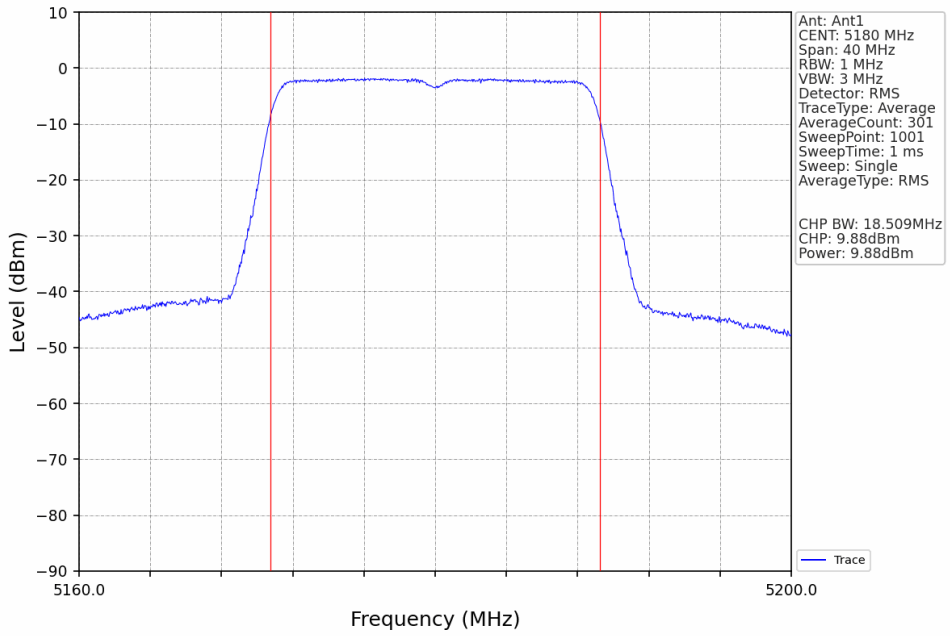
802.11a_MCH_5785MHz_Ant1_NTNV



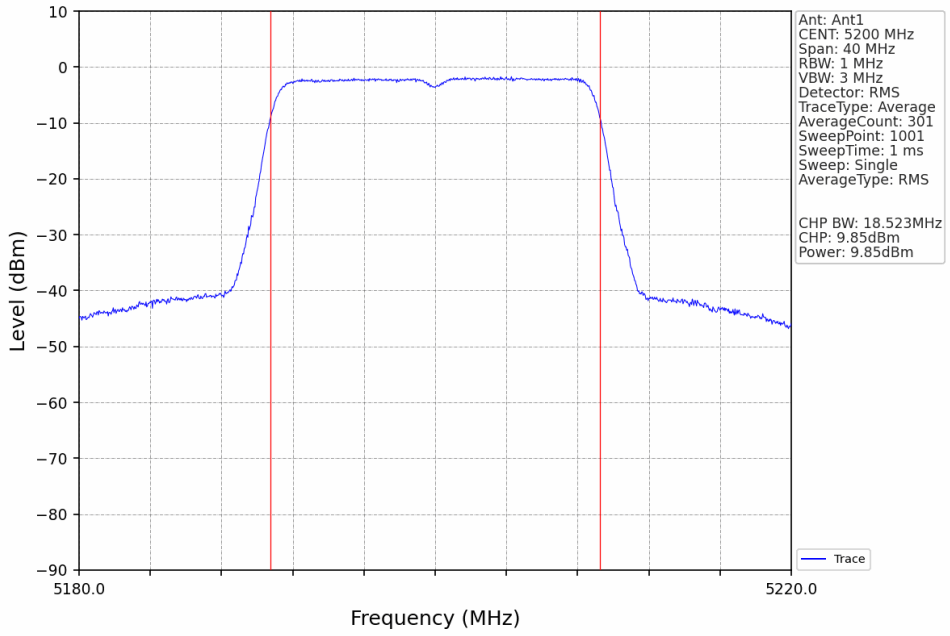
802.11a_HCH_5825MHz_Ant1_NTNV



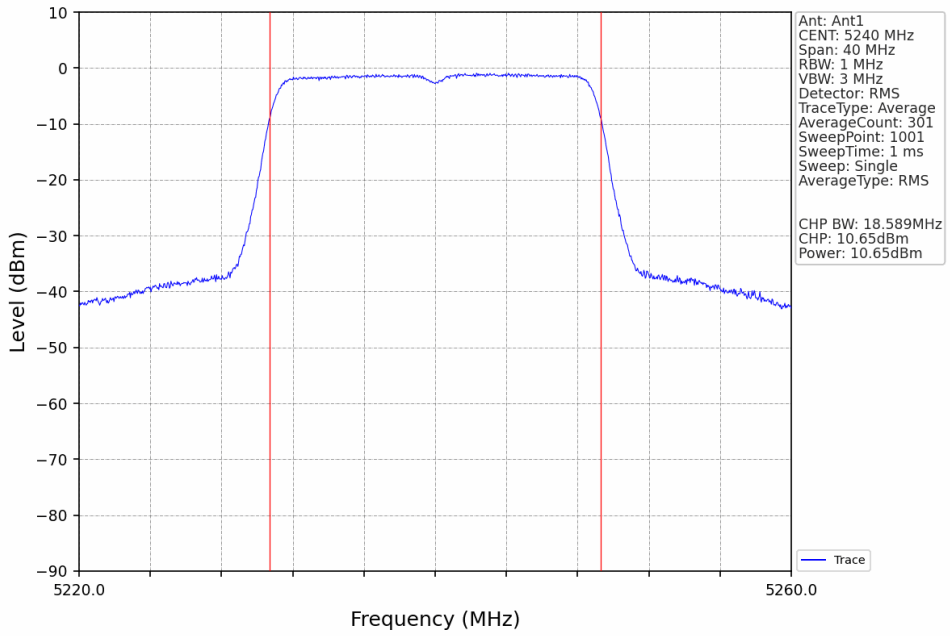
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



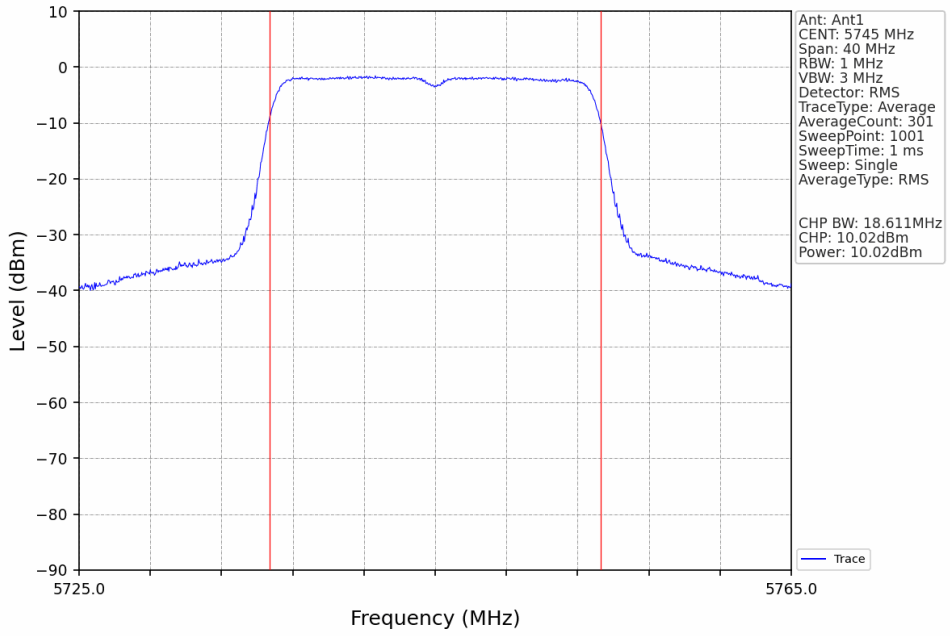
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



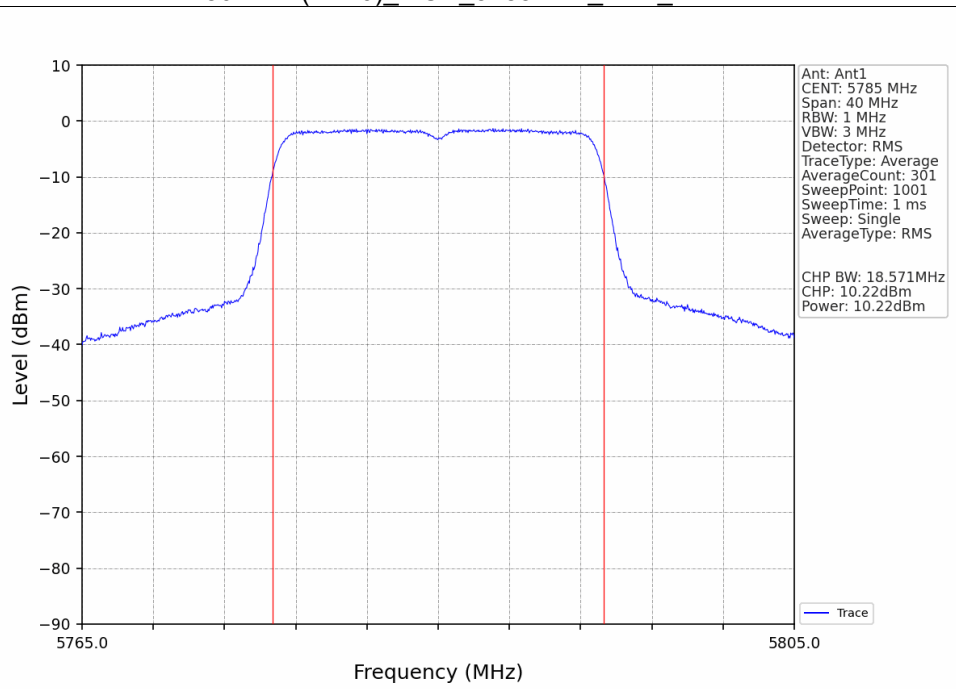
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



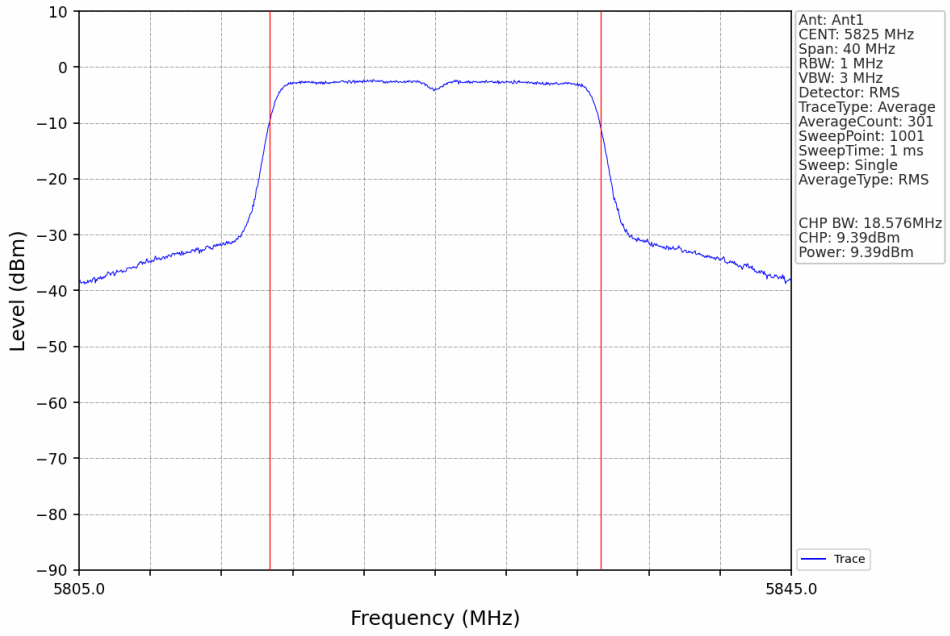
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



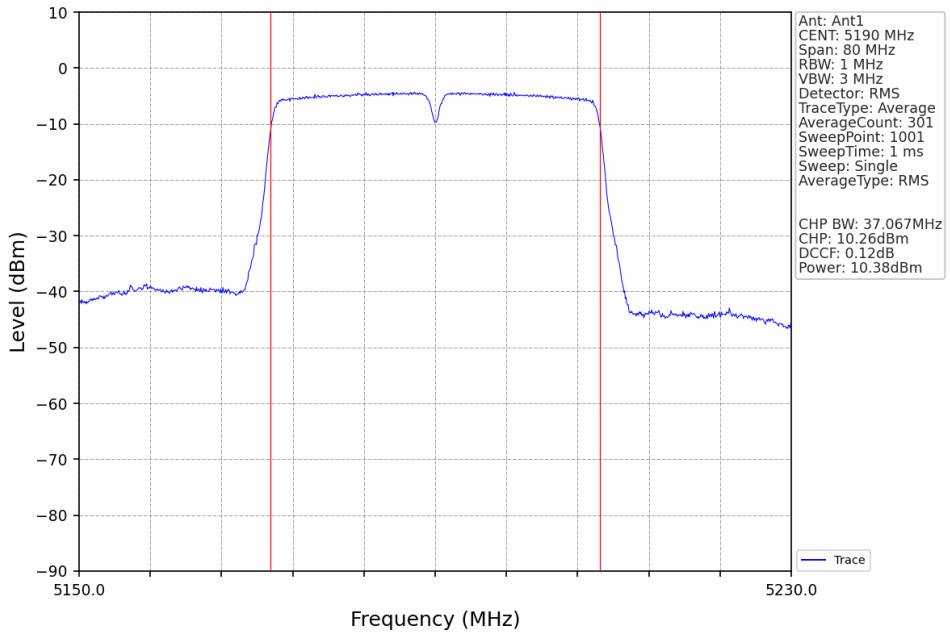
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



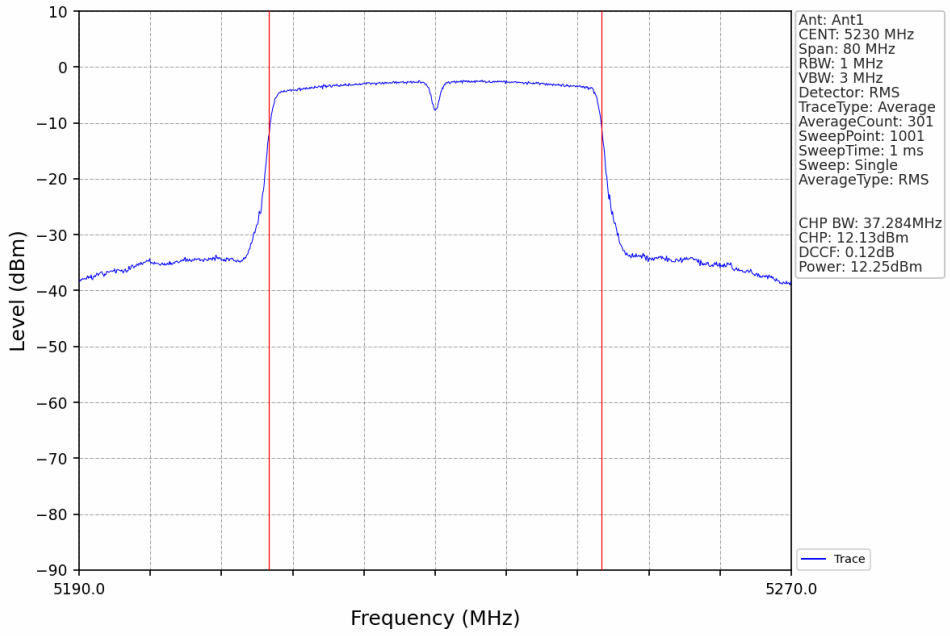
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



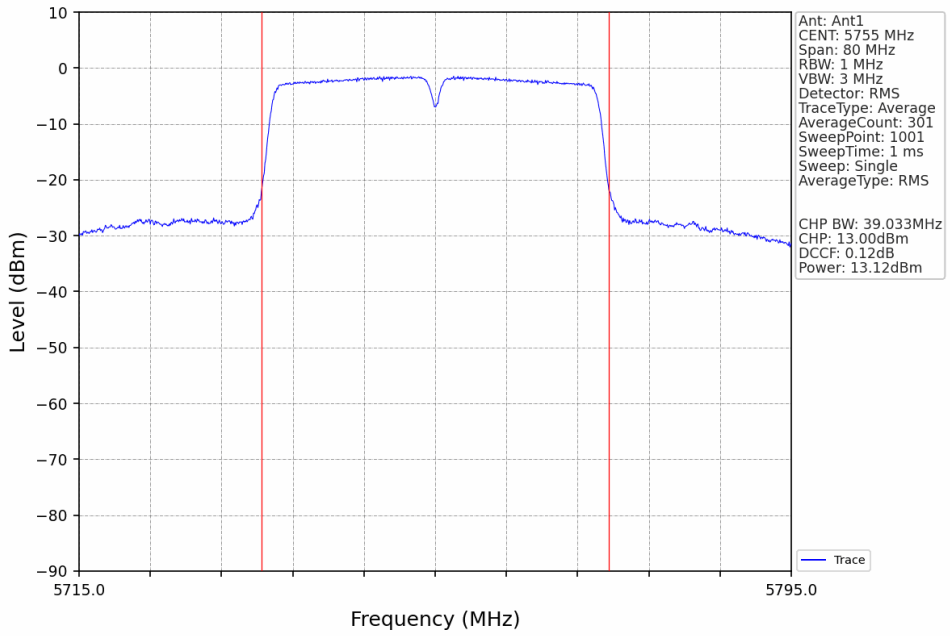
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



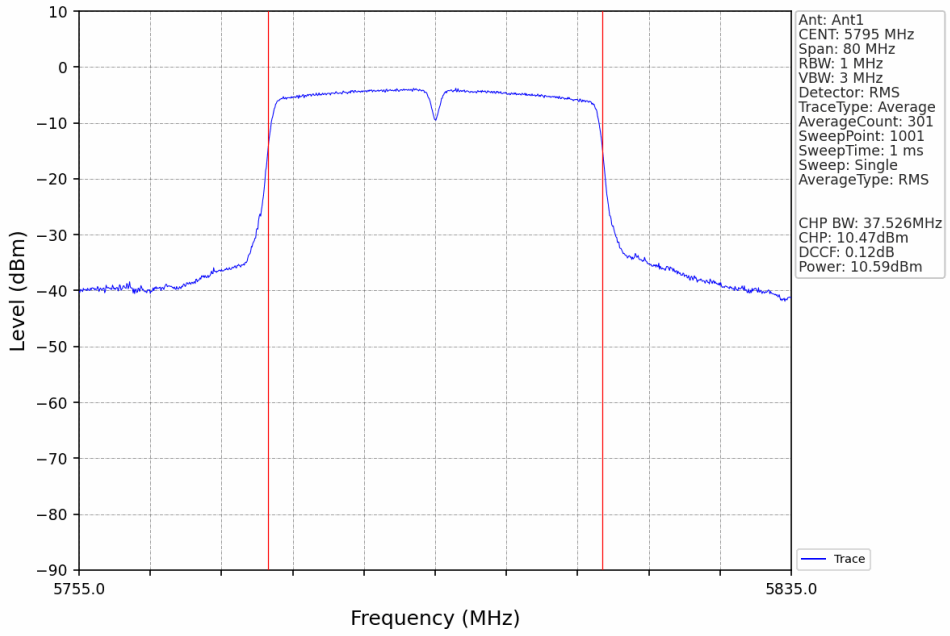
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-1.42	<=11	Pass
		5200	-1.65	<=11	Pass
		5240	-0.85	<=11	Pass
802.11n (HT20)	SISO	5180	-1.78	<=11	Pass
		5200	-1.80	<=11	Pass
		5240	-1.05	<=11	Pass
802.11n (HT40)	SISO	5190	-4.06	<=11	Pass
		5230	-2.27	<=11	Pass

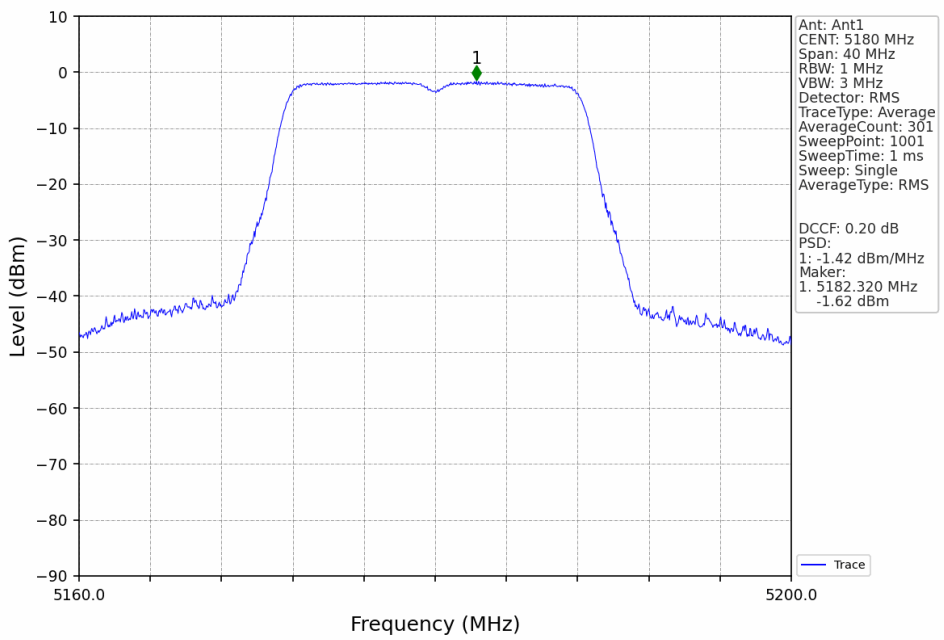
4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-4.25	<=30	Pass
		5785	-4.10	<=30	Pass
		5825	-5.00	<=30	Pass
802.11n (HT20)	SISO	5745	-4.66	<=30	Pass
		5785	-4.29	<=30	Pass
		5825	-5.24	<=30	Pass
802.11n (HT40)	SISO	5755	-4.24	<=30	Pass
		5795	-6.79	<=30	Pass

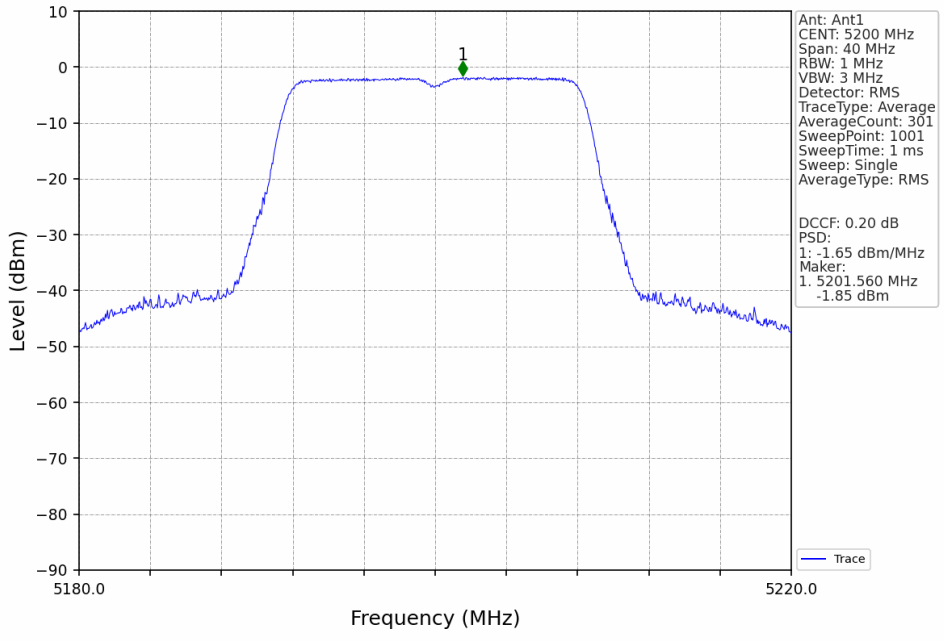
4.2 Test Graph

4.2.1 PSD

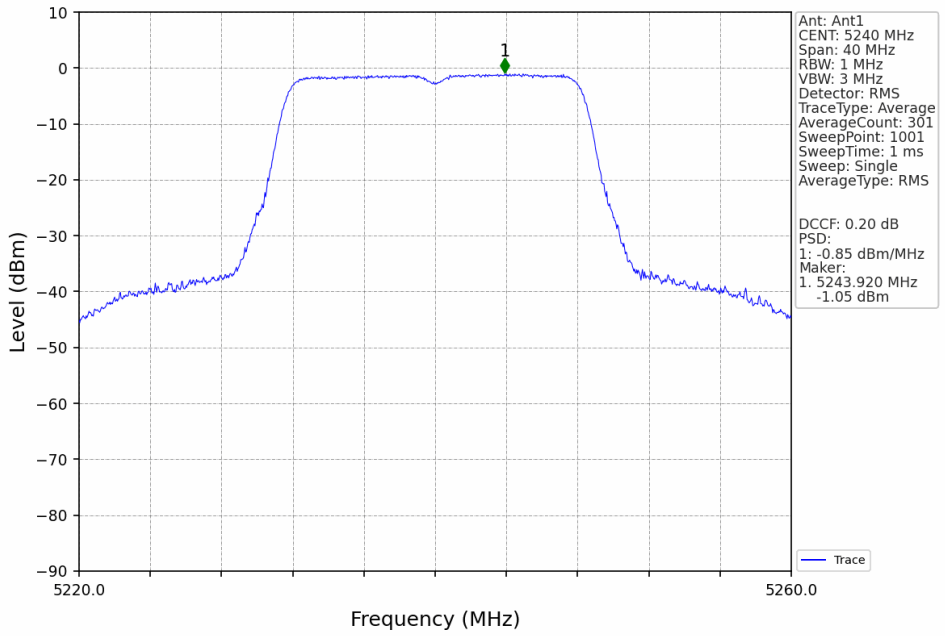
802.11a_LCH_5180MHz_Ant1_NTNV



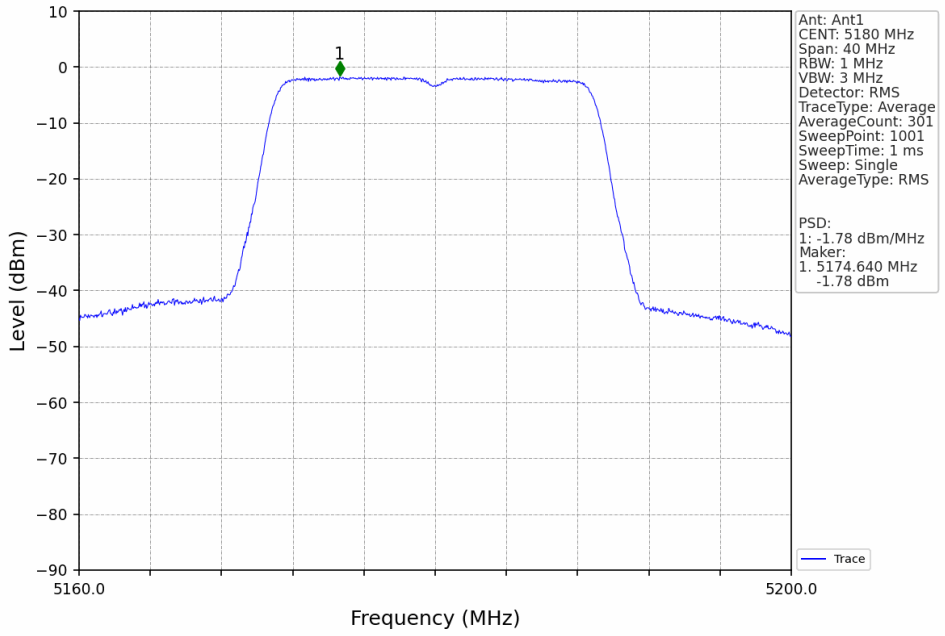
802.11a_MCH_5200MHz_Ant1_NTNV



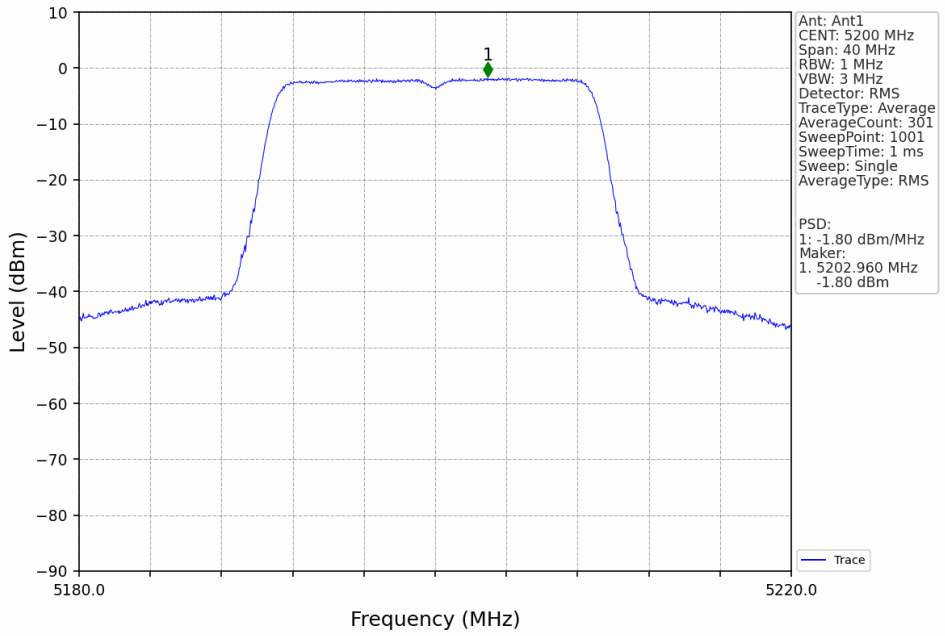
802.11a_HCH_5240MHz_Ant1_NTNV



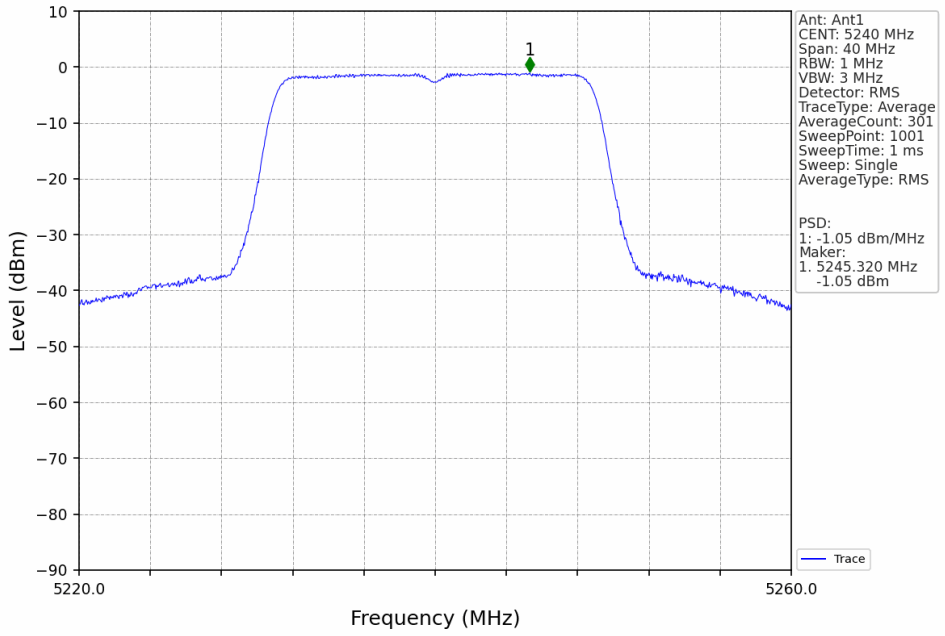
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



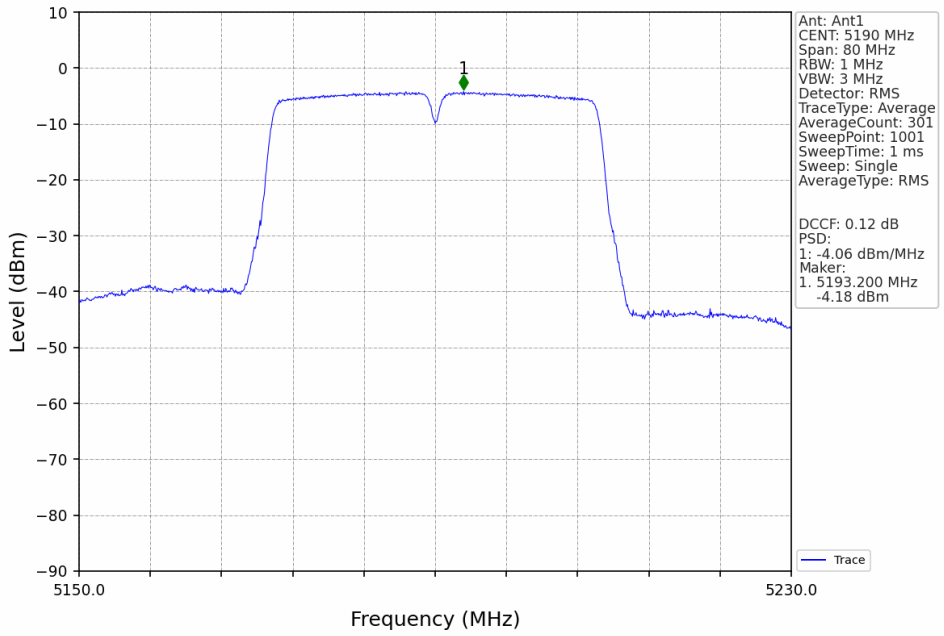
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



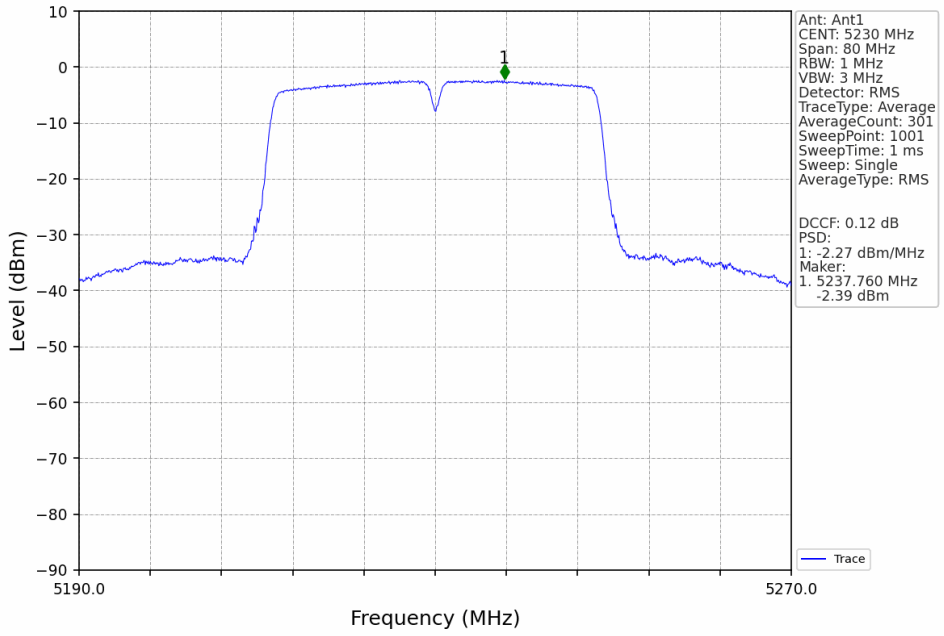
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

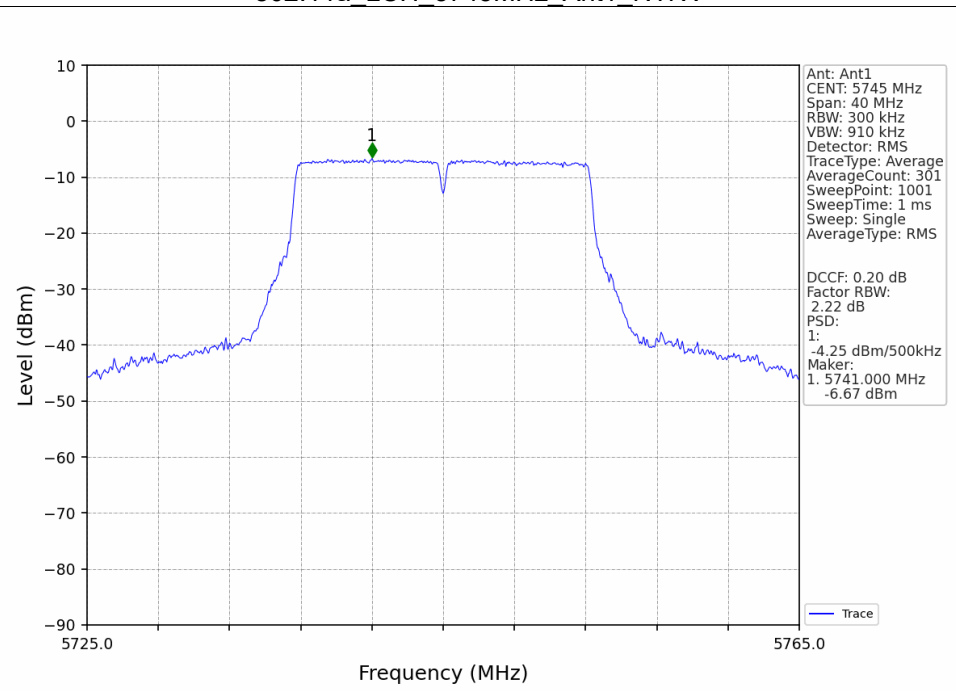


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

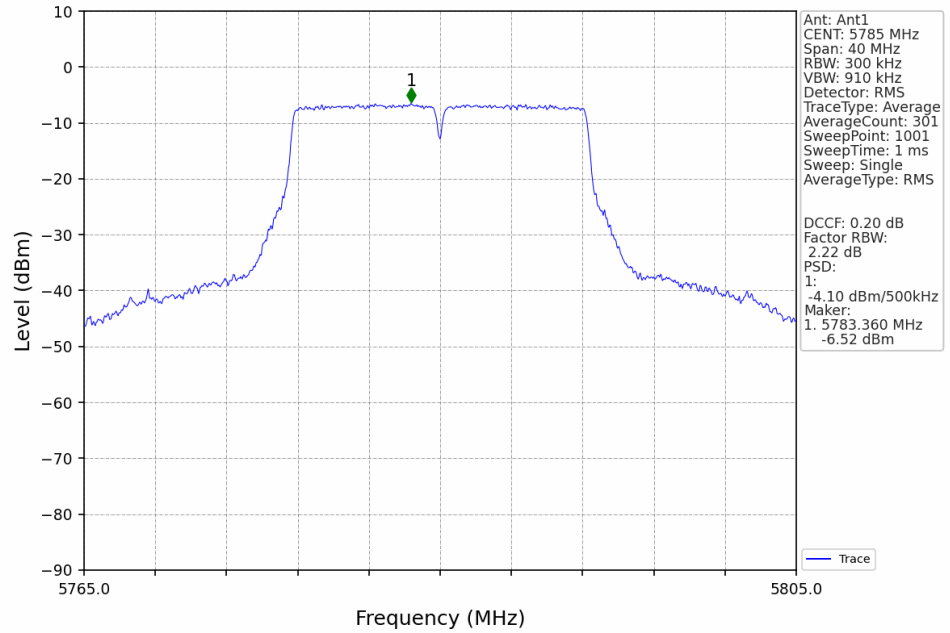


4.2.2 PSD-Band3

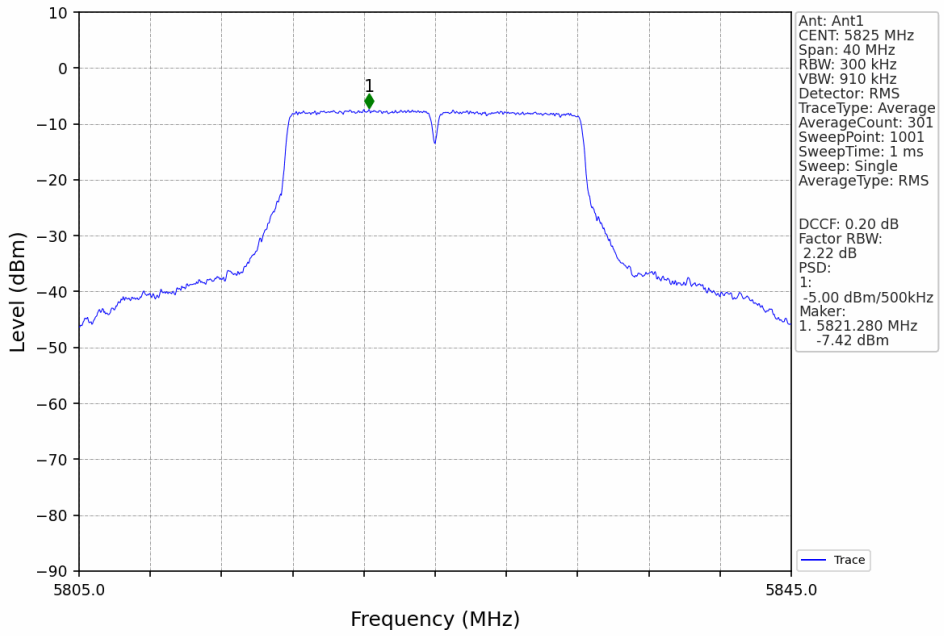
802.11a_LCH_5745MHz_Ant1_NTNV



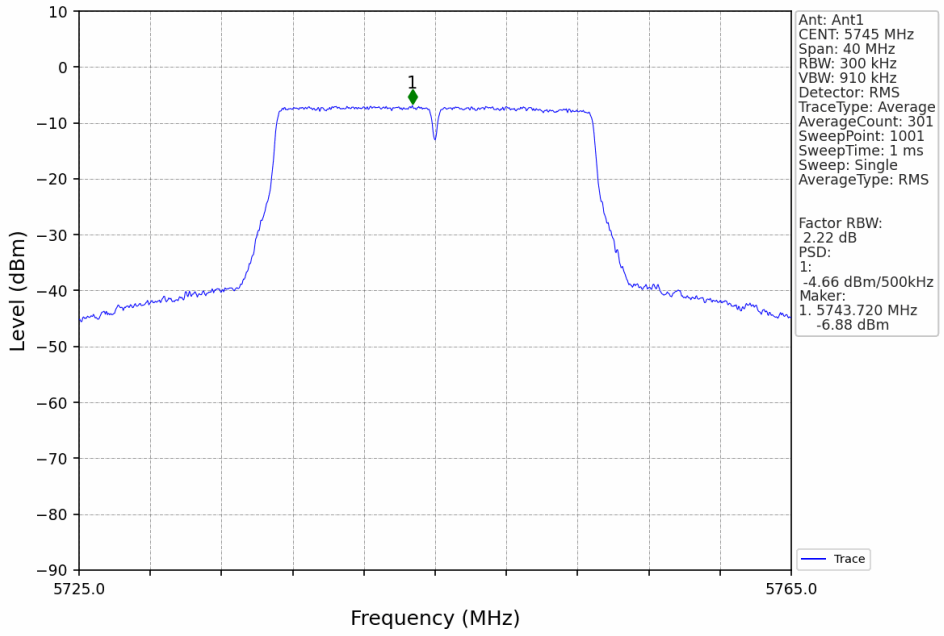
802.11a_MCH_5785MHz_Ant1_NTNV



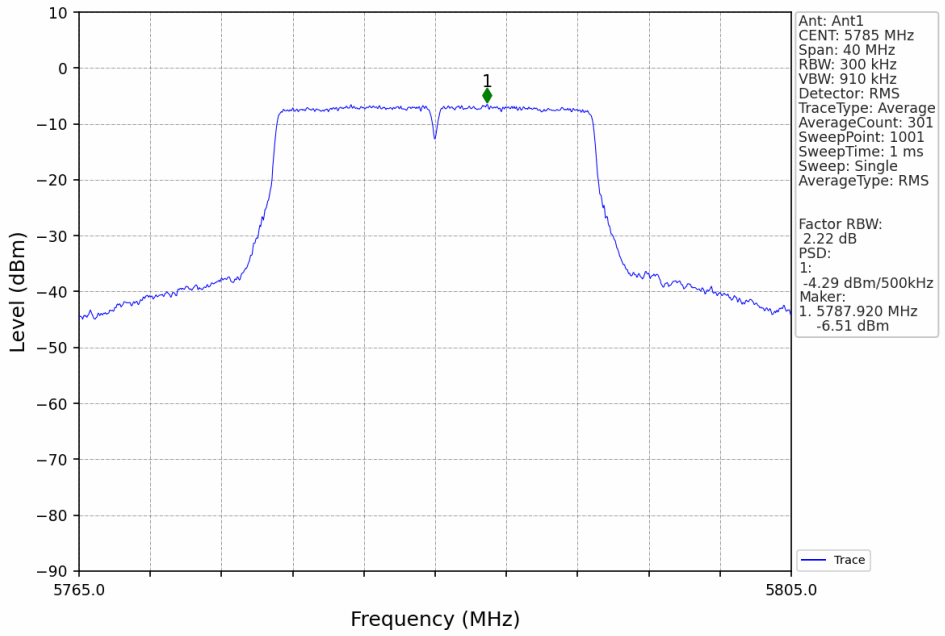
802.11a_HCH_5825MHz_Ant1_NTNV



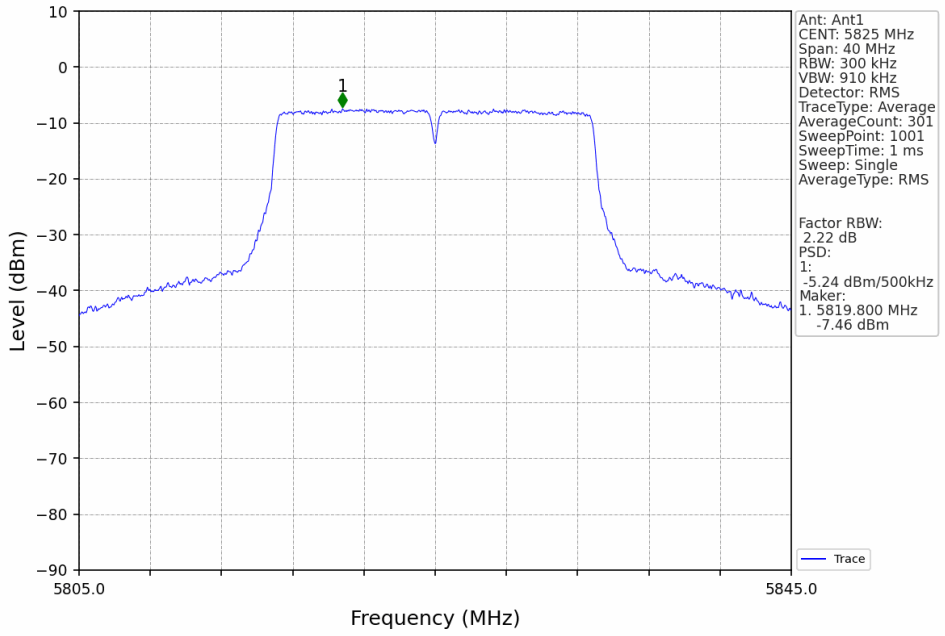
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



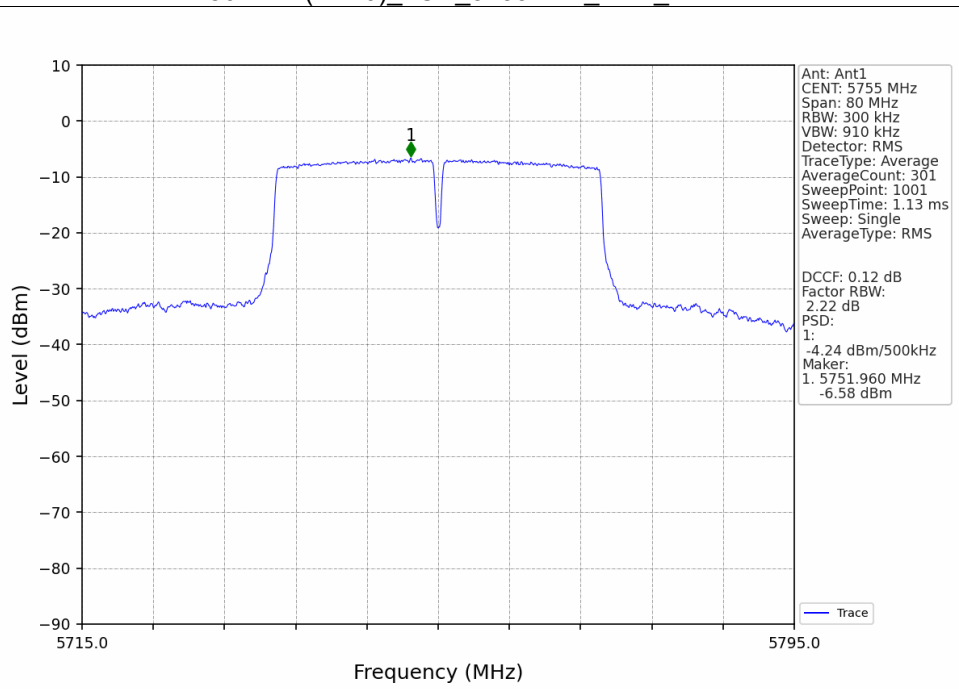
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



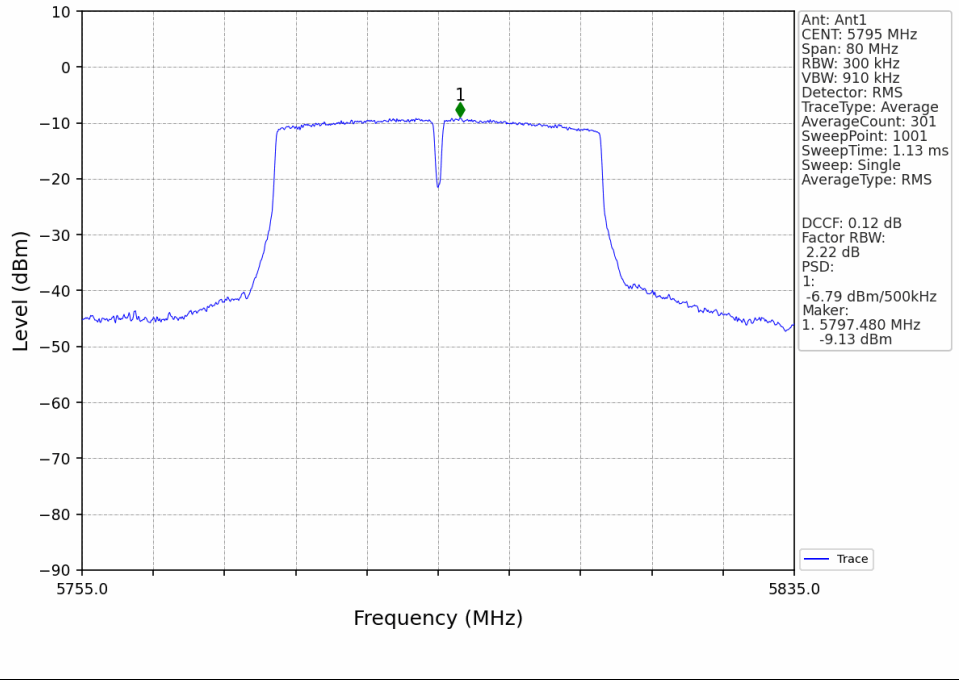
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



5. Unwanted Emissions In Restricted Frequency Bands

5.1 Test Result

5.1.1 CSE

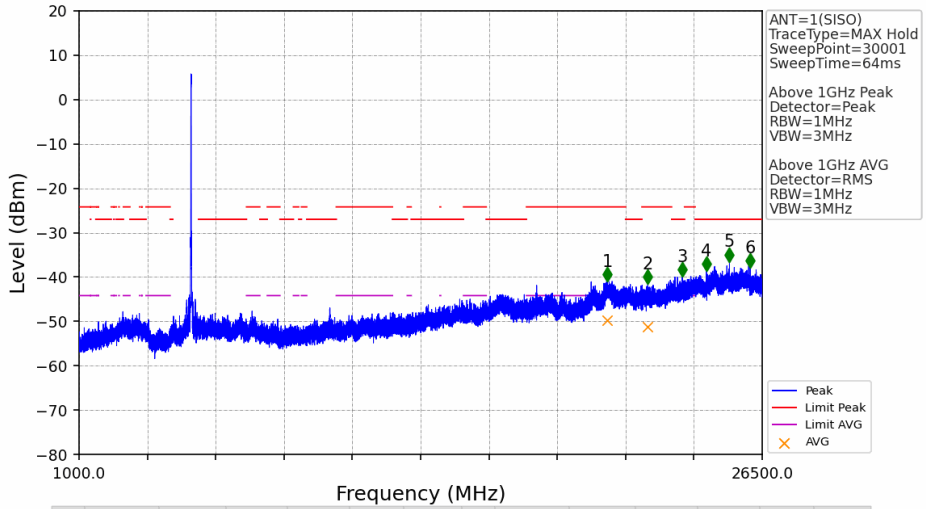
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	Refer To Test Graph		Pass
		5200	1	Refer To Test Graph		Pass
		5240	1	Refer To Test Graph		Pass
		5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test 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
		5745	1	Refer To Test Graph		Pass
		5785	1	Refer To Test Graph		Pass
		5825	1	Refer To Test Graph		Pass
802.11n (HT40)	SISO	5190	1	Refer To Test Graph		Pass
		5230	1	Refer To Test Graph		Pass
		5755	1	Refer To Test Graph		Pass
		5795	1	Refer To Test Graph		Pass

Note:
1) EIRP[dBm]=E[dBuV/m]- 95.2, for d= 3 m;
2) Level[dBm] results have calculated the antenna gain;
3) Antenna gain= U-NII-1: 5150 MHz to 5250 MHz: 3.35 dBi and U-NII-3: 5725 MHz to 5850 MHz: 2.13 dBi

5.2 Test Graph

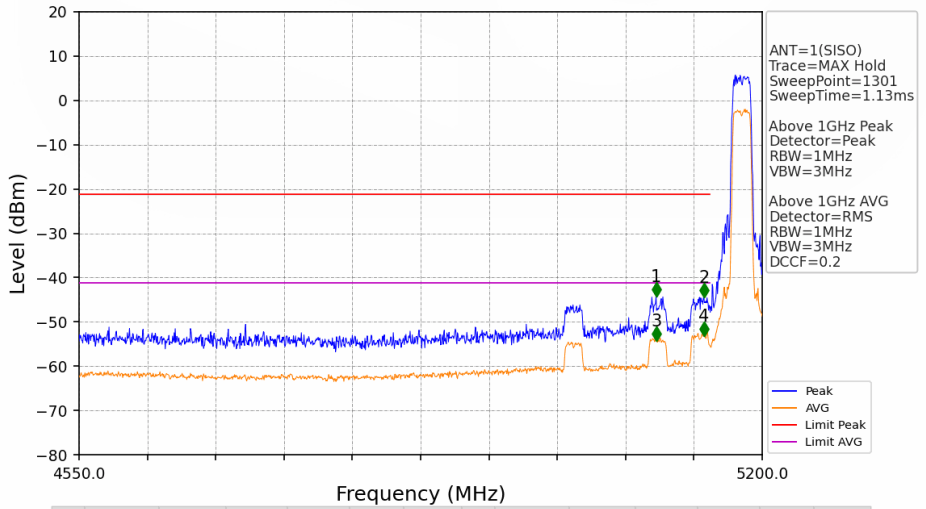
5.2.1 CSE

802.11a_LCH_5180MHz_Ant1_NTNV



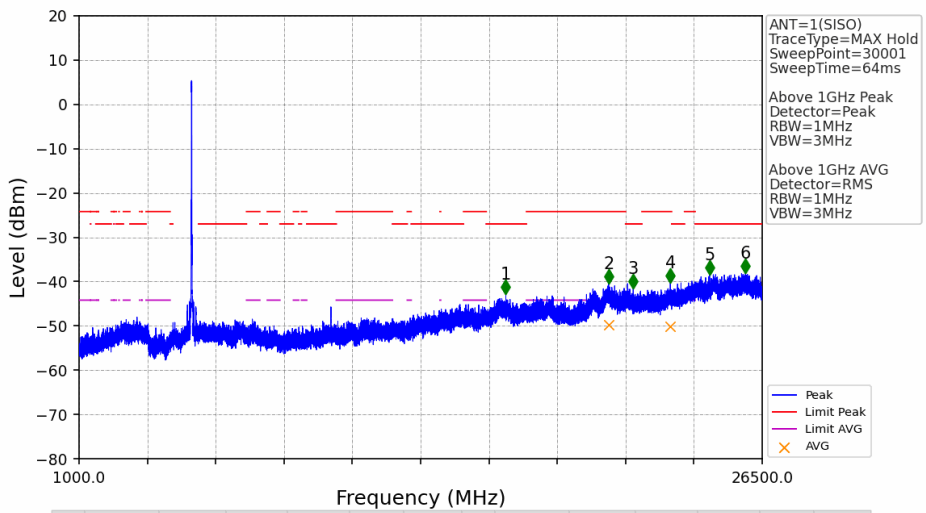
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20725.95	-40.95	-21.20	16.75	Pass	Peak	7	20725.95	-49.69	-41.20	5.49	Pass	AVG
2	22230.45	-41.53	-21.20	17.33	Pass	Peak	8	22230.45	-51.20	-41.20	7.00	Pass	AVG
3	23514.8	-39.88	-27.00	9.88	Pass	Peak	9	23514.8	/	-27.00	/	/	AVG
4	24416.65	-38.67	-27.00	8.67	Pass	Peak	10	24416.65	/	-27.00	/	/	AVG
5	25278.55	-36.50	-27.00	6.50	Pass	Peak	11	25278.55	/	-27.00	/	/	AVG
6	26050.35	-37.85	-27.00	7.85	Pass	Peak	12	26050.35	/	-27.00	/	/	AVG

802.11a_LCH_5180MHz_Ant1_NTNV



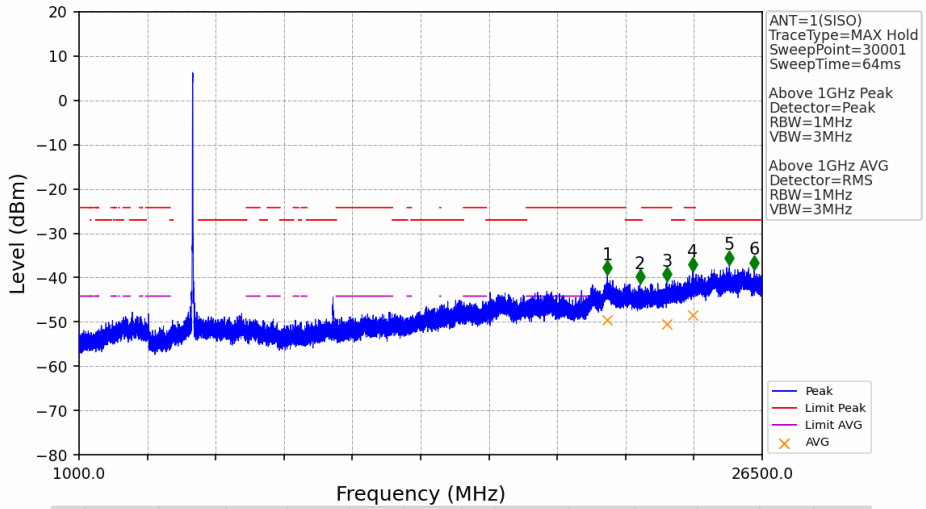
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5099.000	-44.19	-21.20	19.99	Pass	Peak	3	5099.000	-54.28	-41.20	10.08	Pass	AVG
2	5144.500	-44.39	-21.20	20.19	Pass	Peak	4	5144.500	-53.17	-41.20	8.97	Pass	AVG

802.11a_MCH_5200MHz_Ant1_NTNV



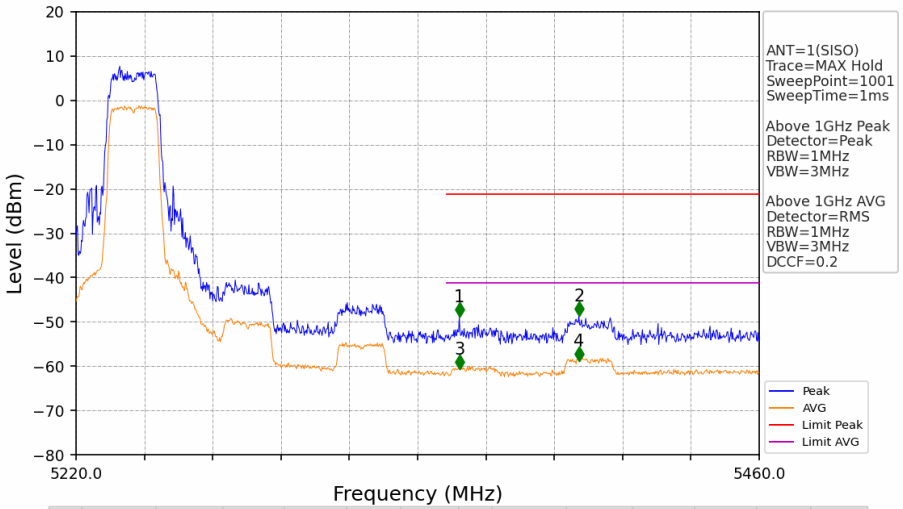
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	16929.85	-42.87	-27.00	12.87	Pass	Peak	7	16929.85	/	-27.00	/	/	AVG
2	20767.6	-40.44	-21.20	16.24	Pass	Peak	8	20767.6	-49.76	-41.20	5.56	Pass	AVG
3	21683.9	-41.52	-27.00	11.52	Pass	Peak	9	21683.9	/	-27.00	/	/	AVG
4	23069.4	-40.23	-21.20	16.03	Pass	Peak	10	23069.4	-50.14	-41.20	5.94	Pass	AVG
5	24536.5	-38.40	-27.00	8.40	Pass	Peak	11	24536.5	/	-27.00	/	/	AVG
6	25875.25	-38.06	-27.00	8.06	Pass	Peak	12	25875.25	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV



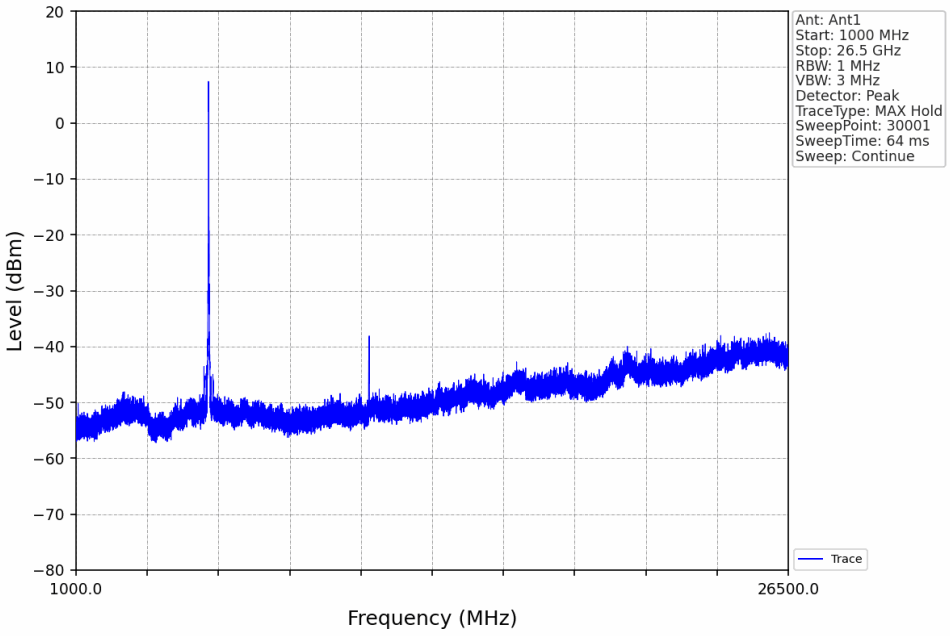
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20718.3	-39.41	-21.20	15.21	Pass	Peak	7	20718.3	-49.55	-41.20	5.35	Pass	AVG
2	21937.2	-41.25	-27.00	11.25	Pass	Peak	8	21937.2	/	-27.00	/	/	AVG
3	22938.5	-40.77	-21.20	16.57	Pass	Peak	9	22938.5	-50.46	-41.20	6.26	Pass	AVG
4	23904.95	-38.67	-21.20	14.47	Pass	Peak	10	23904.95	-48.53	-41.20	4.33	Pass	AVG
5	25274.3	-37.05	-27.00	7.05	Pass	Peak	11	25274.3	/	-27.00	/	/	AVG
6	26201.65	-38.14	-27.00	8.14	Pass	Peak	12	26201.65	/	-27.00	/	/	AVG

802.11a_HCH_5240MHz_Ant1_NTNV

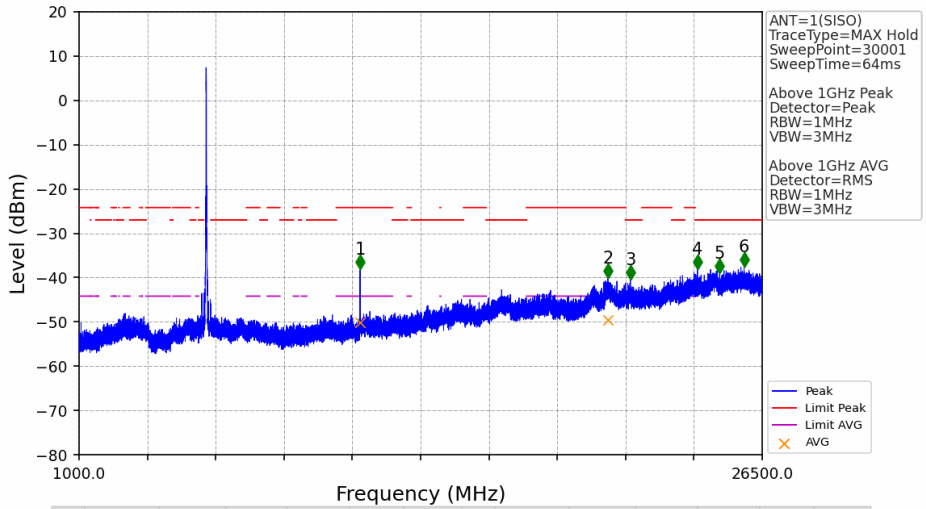


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5354.640	-48.85	-21.20	24.65	Pass	Peak	3	5354.640	-60.61	-41.20	16.41	Pass	AVG
2	5396.640	-48.68	-21.20	24.48	Pass	Peak	4	5396.640	-58.81	-41.20	14.61	Pass	AVG

802.11a_LCH_5745MHz_Ant1_NTNV

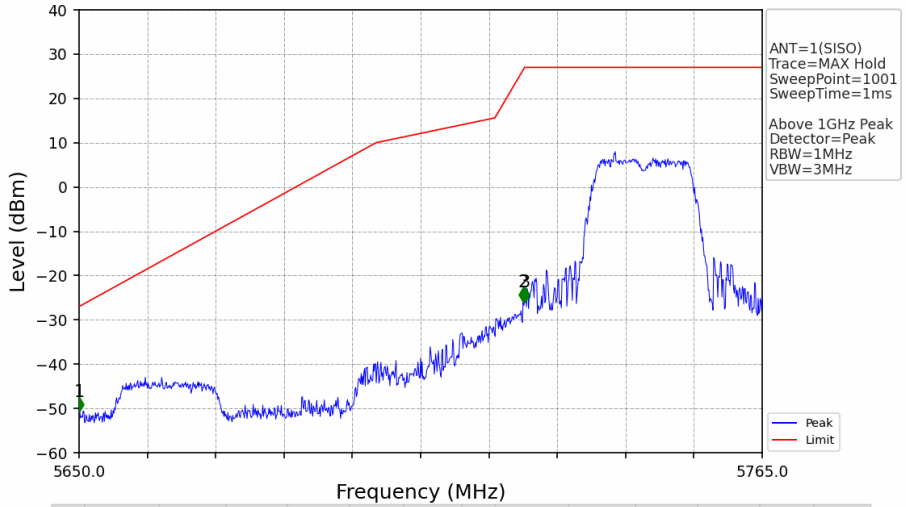


802.11a_LCH_5745MHz_Ant1_NTNV



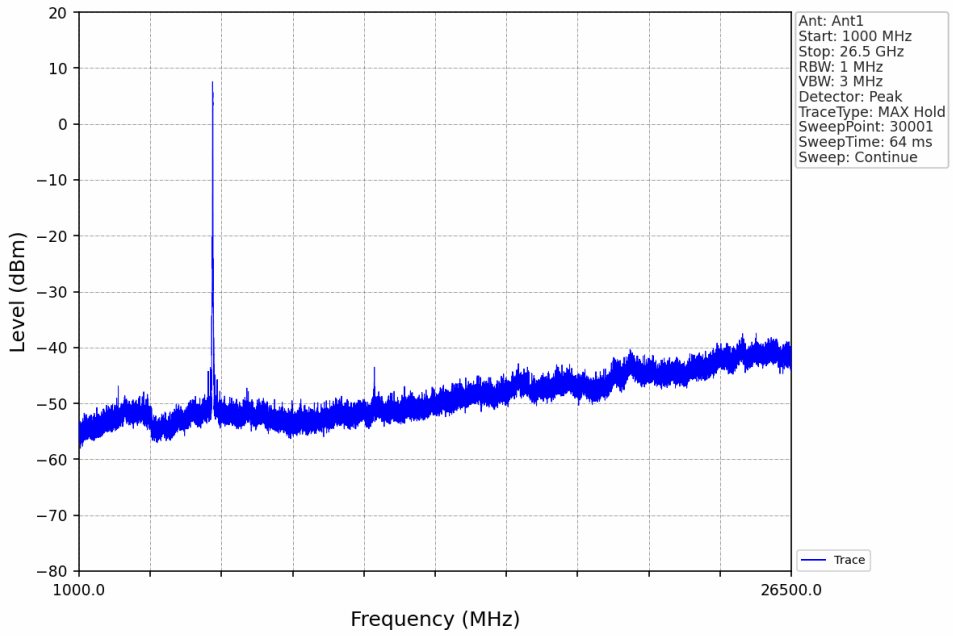
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	11496.65	-38.10	-21.20	13.90	Pass	Peak	7	11496.65	-50.09	-41.20	5.89	Pass	AVG
2	20739.55	-39.98	-21.20	15.78	Pass	Peak	8	20739.55	-49.53	-41.20	5.33	Pass	AVG
3	21579.35	-40.38	-27.00	10.38	Pass	Peak	9	21579.35	/	-27.00	/	/	AVG
4	24083.45	-38.02	-27.00	8.03	Pass	Peak	10	24083.45	/	-27.00	/	/	AVG
5	24910.5	-38.99	-27.00	8.99	Pass	Peak	11	24910.5	/	-27.00	/	/	AVG
6	25822.55	-37.55	-27.00	7.55	Pass	Peak	12	25822.55	/	-27.00	/	/	AVG

802.11a_LCH_5745MHz_Ant1_NTNV

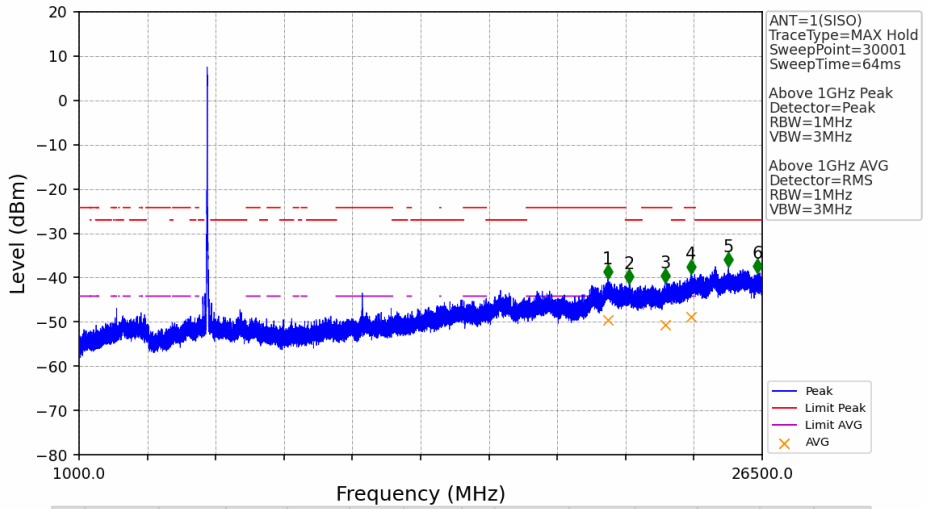


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-50.66	-27.00	20.66	Pass	Peak	3	5725.000	-25.97	27.00	49.97	Pass	Peak
2	5724.750	-25.86	26.43	49.29	Pass	Peak							

802.11a_MCH_5785MHz_Ant1_NTNV

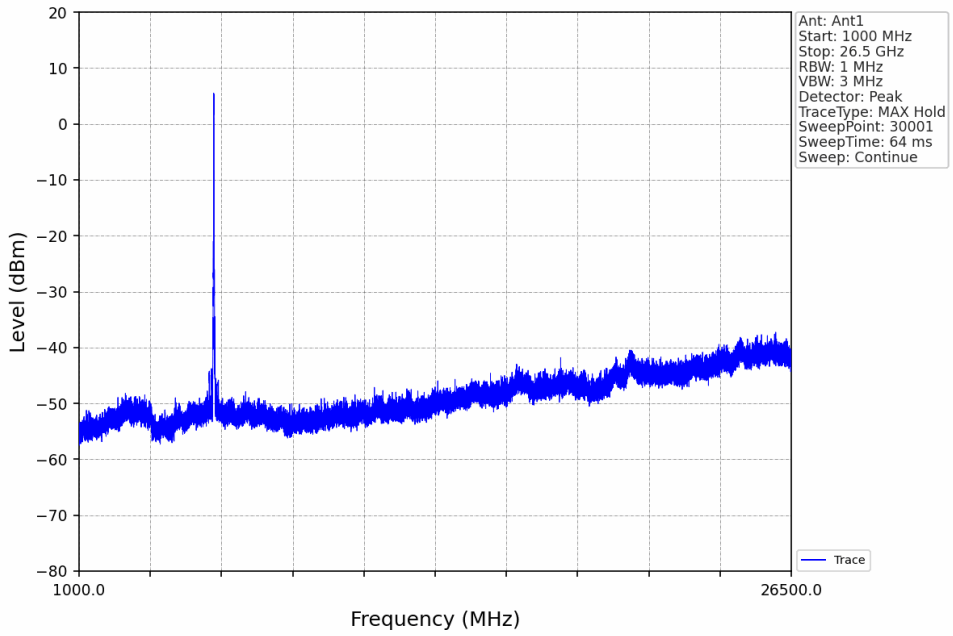


802.11a_MCH_5785MHz_Ant1_NTNV

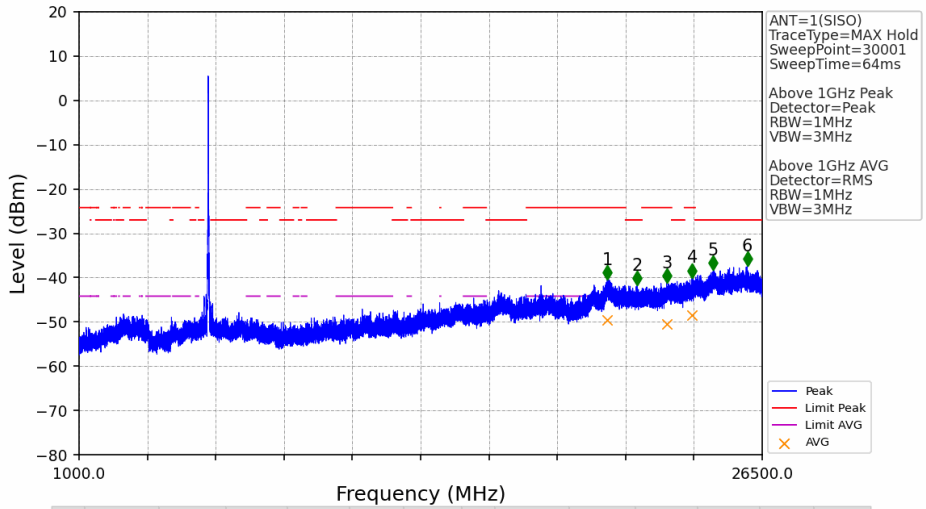


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20728.5	-40.30	-21.20	16.10	Pass	Peak	7	20728.5	-49.63	-41.20	5.43	Pass	AVG
2	21536.85	-41.38	-27.00	11.38	Pass	Peak	8	21536.85	/	-27.00	/	/	AVG
3	22871.35	-41.10	-21.20	16.91	Pass	Peak	9	22871.35	-50.76	-41.20	6.56	Pass	AVG
4	23842.05	-39.21	-21.20	15.01	Pass	Peak	10	23842.05	-48.82	-41.20	4.62	Pass	AVG
5	25242.85	-37.45	-27.00	7.45	Pass	Peak	11	25242.85	/	-27.00	/	/	AVG
6	26332.55	-38.94	-27.00	8.94	Pass	Peak	12	26332.55	/	-27.00	/	/	AVG

802.11a_HCH_5825MHz_Ant1_NTNV

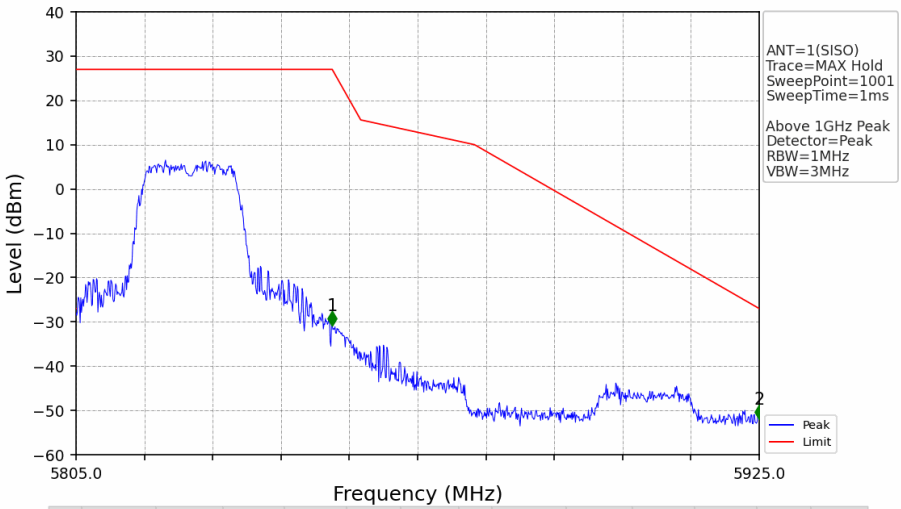


802.11a_HCH_5825MHz_Ant1_NTNV



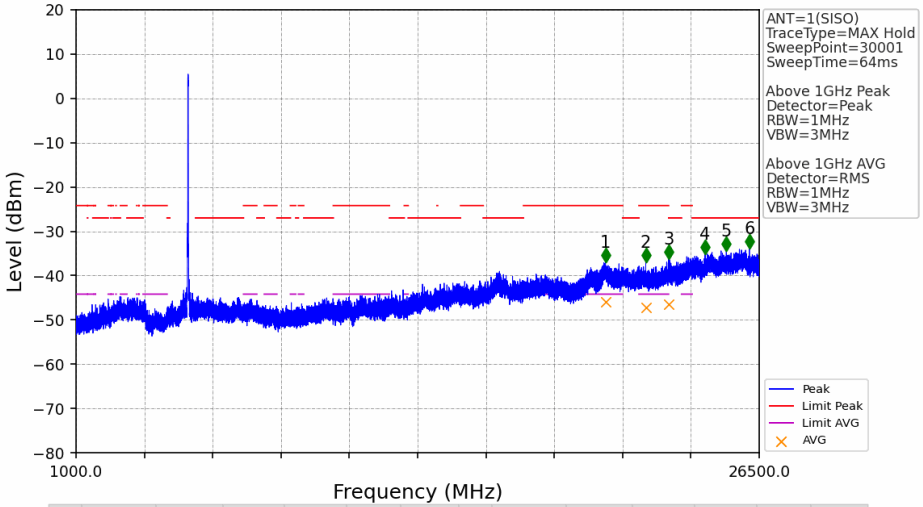
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20717.45	-40.45	-21.20	16.25	Pass	Peak	7	20717.45	-49.65	-41.20	5.45	Pass	AVG
2	21831.8	-41.68	-27.00	11.68	Pass	Peak	8	21831.8	/	-27.00	/	/	AVG
3	22935.1	-41.07	-21.20	16.87	Pass	Peak	9	22935.1	-50.55	-41.20	6.35	Pass	AVG
4	23885.4	-39.96	-21.20	15.76	Pass	Peak	10	23885.4	-48.56	-41.20	4.36	Pass	AVG
5	24675.05	-38.16	-27.00	8.16	Pass	Peak	11	24675.05	/	-27.00	/	/	AVG
6	25942.4	-37.27	-27.00	7.27	Pass	Peak	12	25942.4	/	-27.00	/	/	AVG

802.11a_HCH_5825MHz_Ant1_NTNV



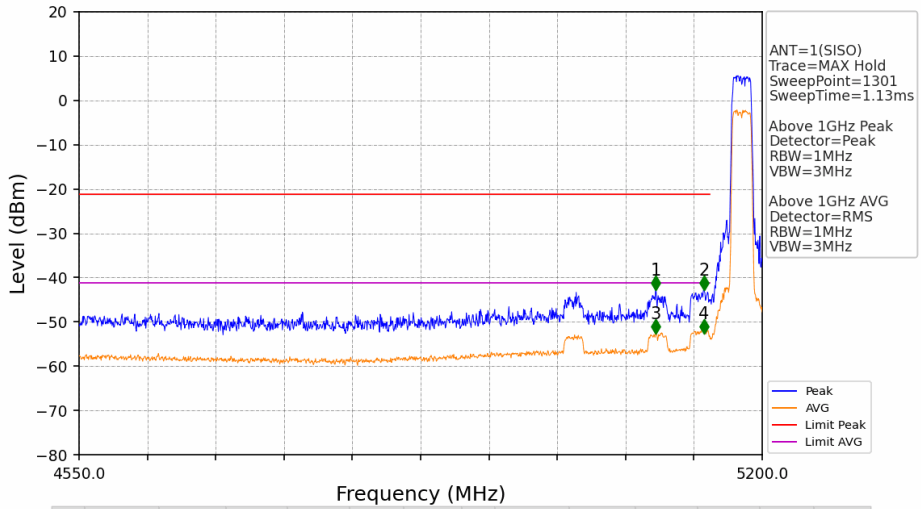
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5850.000	-30.81	27.00	54.81	Pass	Peak	2	5925.000	-51.97	-27.00	21.97	Pass	Peak

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



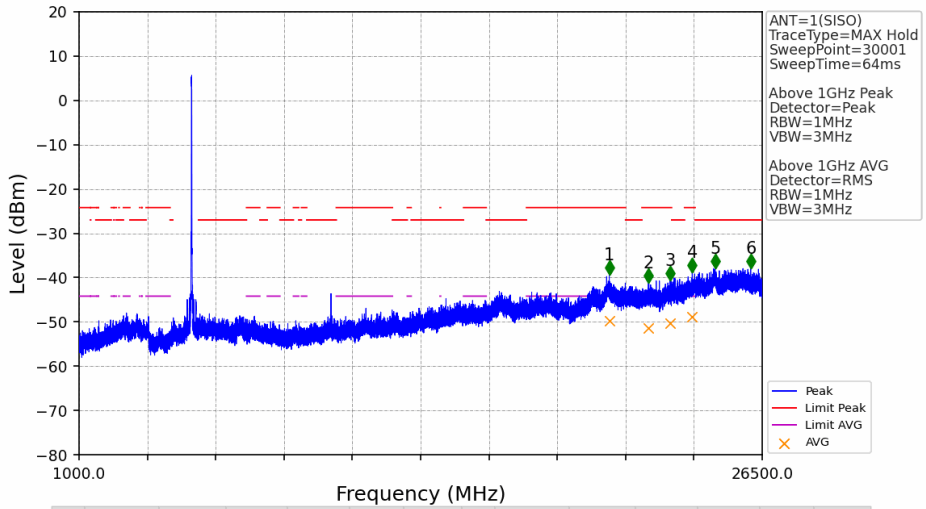
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20759.1	-37.04	-21.20	12.84	Pass	Peak	7	20759.1	-45.88	-41.20	1.68	Pass	AVG
2	22265.3	-36.99	-21.20	12.79	Pass	Peak	8	22265.3	-47.28	-41.20	3.08	Pass	AVG
3	23113.6	-36.25	-21.20	12.05	Pass	Peak	9	23113.6	-46.51	-41.20	2.31	Pass	AVG
4	24481.25	-35.07	-27.00	5.07	Pass	Peak	10	24481.25	/	-27.00	/	/	AVG
5	25272.6	-34.38	-27.00	4.38	Pass	Peak	11	25272.6	/	-27.00	/	/	AVG
6	26133.65	-33.88	-27.00	3.88	Pass	Peak	12	26133.65	/	-27.00	/	/	AVG

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



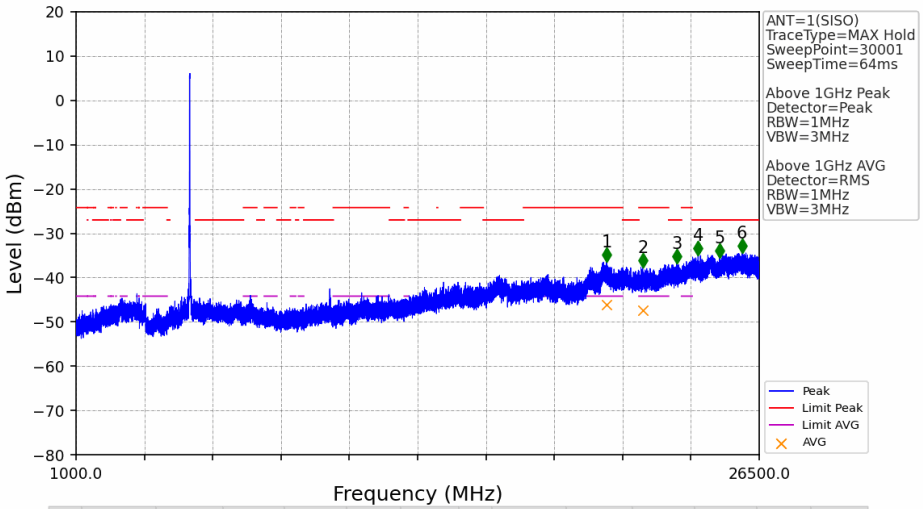
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5098.500	-42.83	-21.20	18.63	Pass	Peak	3	5098.500	-52.64	-41.20	8.44	Pass	AVG
2	5144.500	-42.75	-21.20	18.55	Pass	Peak	4	5144.500	-52.63	-41.20	8.43	Pass	AVG

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



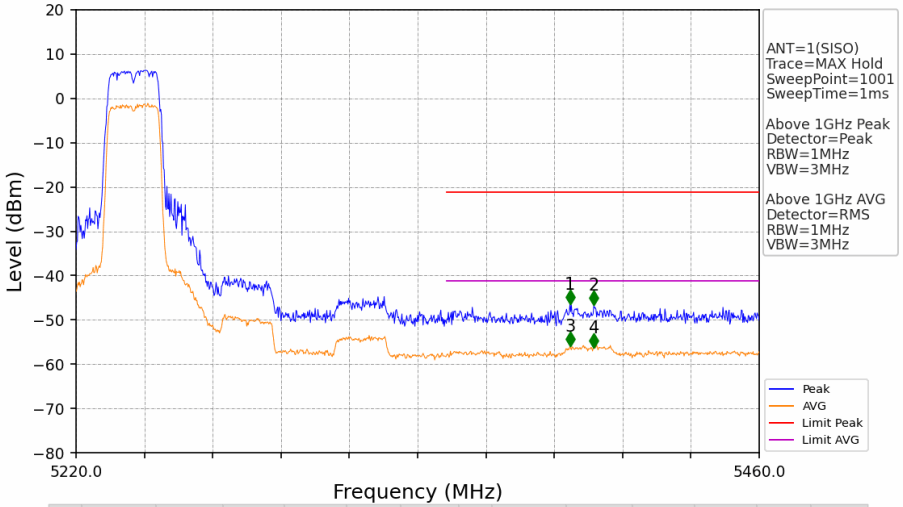
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20789.7	-39.26	-21.20	15.06	Pass	Peak	7	20789.7	-49.78	-41.20	5.58	Pass	AVG
2	22253.4	-41.14	-21.20	16.94	Pass	Peak	8	22253.4	-51.37	-41.20	7.17	Pass	AVG
3	23059.2	-40.65	-21.20	16.45	Pass	Peak	9	23059.2	-50.39	-41.20	6.19	Pass	AVG
4	23887.95	-38.85	-21.20	14.65	Pass	Peak	10	23887.95	-48.83	-41.20	4.63	Pass	AVG
5	24741.35	-37.80	-27.00	7.80	Pass	Peak	11	24741.35	/	-27.00	/	/	AVG
6	26070.75	-37.90	-27.00	7.90	Pass	Peak	12	26070.75	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



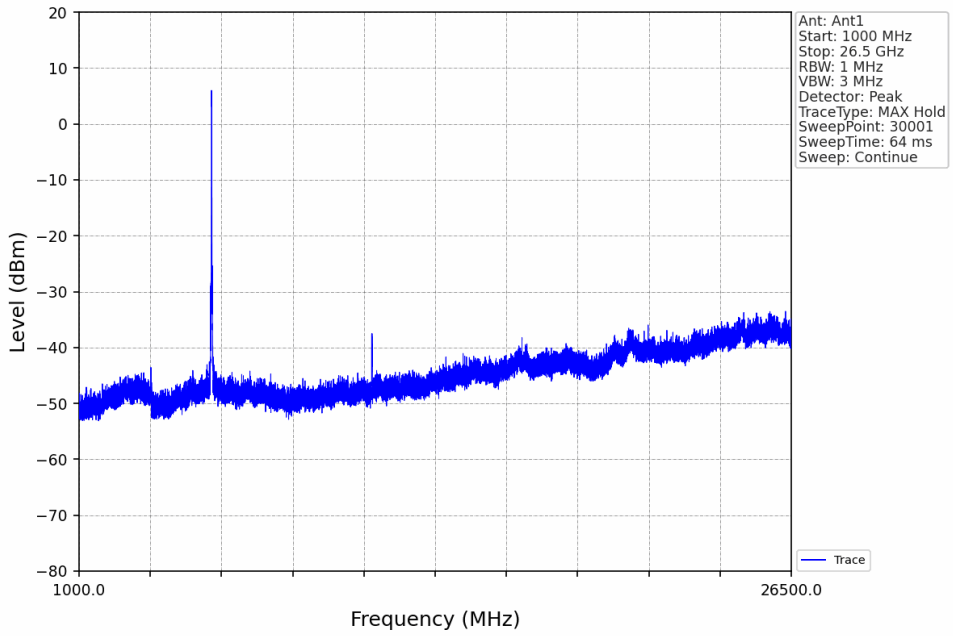
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20804.15	-36.49	-21.20	12.29	Pass	Peak	7	20804.15	-46.12	-41.20	1.92	Pass	AVG
2	22152.25	-37.62	-21.20	13.42	Pass	Peak	8	22152.25	-47.39	-41.20	3.19	Pass	AVG
3	23423	-36.76	-27.00	6.76	Pass	Peak	9	23423	/	-27.00	/	/	AVG
4	24217.75	-34.91	-27.00	4.91	Pass	Peak	10	24217.75	/	-27.00	/	/	AVG
5	25025.25	-35.55	-27.00	5.55	Pass	Peak	11	25025.25	/	-27.00	/	/	AVG
6	25856.55	-34.34	-27.00	4.34	Pass	Peak	12	25856.55	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

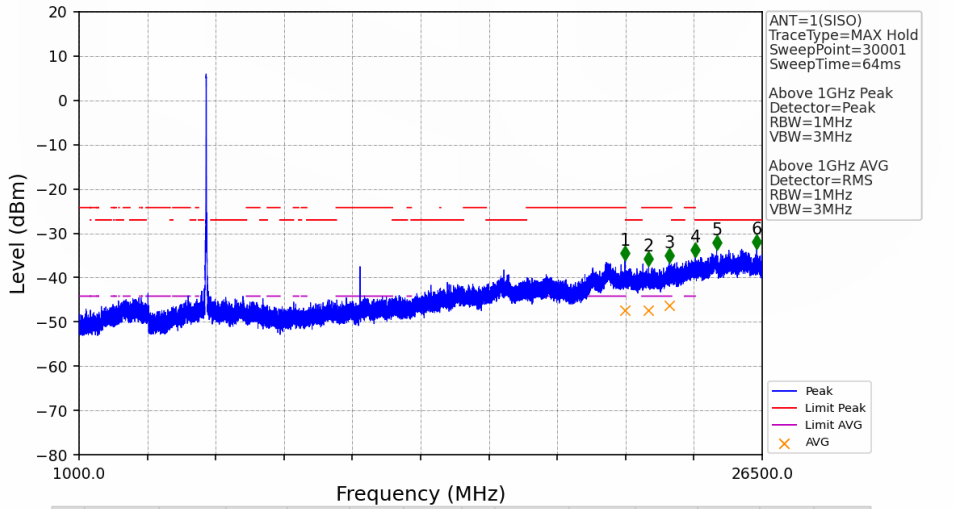


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5393.520	-46.40	-21.20	22.20	Pass	Peak	3	5393.520	-55.96	-41.20	11.76	Pass	AVG
2	5401.920	-46.68	-21.20	22.48	Pass	Peak	4	5401.920	-56.21	-41.20	12.01	Pass	AVG

802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

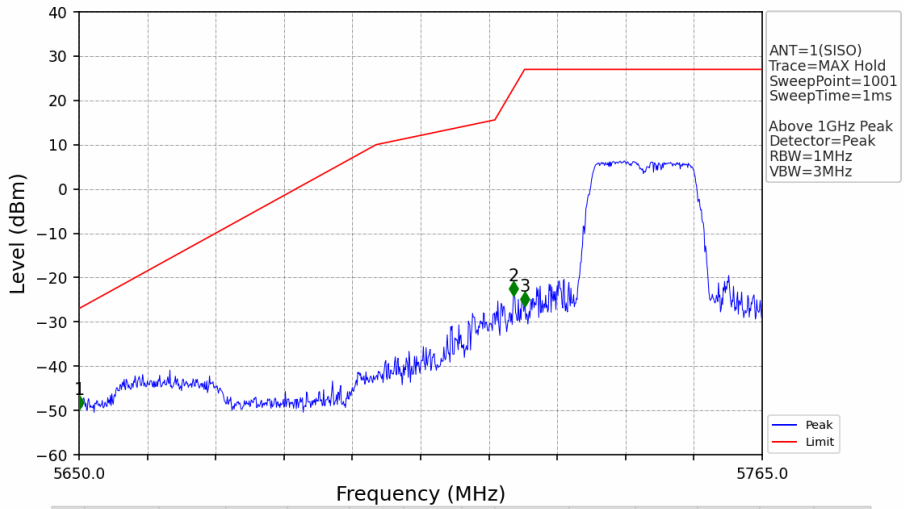


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



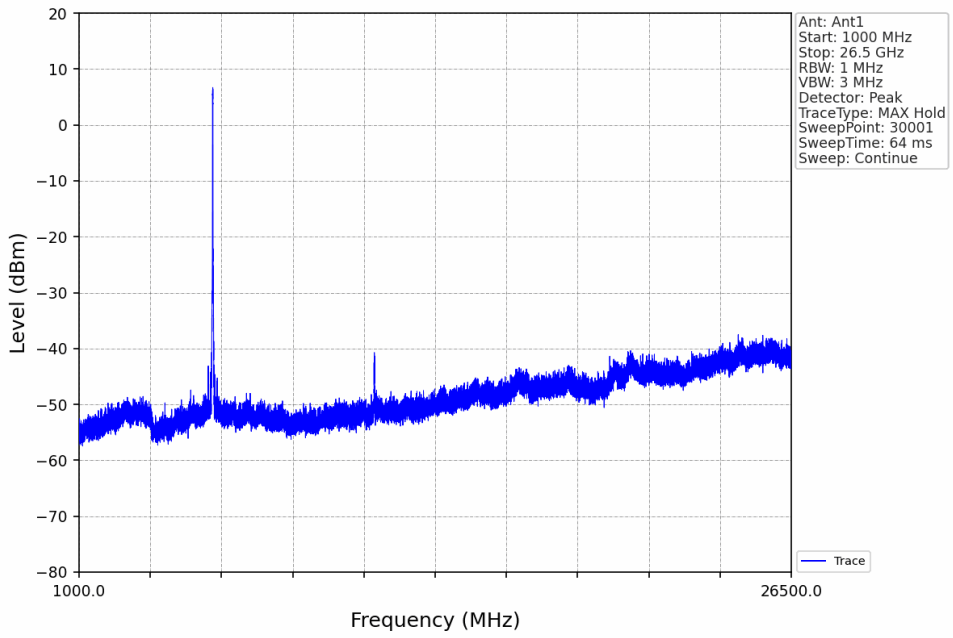
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	21374.5	-35.97	-21.20	11.77	Pass	Peak	7	21374.5	-47.31	-41.20	3.11	Pass	AVG
2	22261.9	-37.27	-21.20	13.07	Pass	Peak	8	22261.9	-47.36	-41.20	3.16	Pass	AVG
3	23029.45	-36.64	-21.20	12.44	Pass	Peak	9	23029.45	-46.27	-41.20	2.07	Pass	AVG
4	24002.7	-35.35	-27.00	5.35	Pass	Peak	10	24002.7	/	-27.00	/	/	AVG
5	24799.15	-33.74	-27.00	3.74	Pass	Peak	11	24799.15	/	-27.00	/	/	AVG
6	26294.3	-33.52	-27.00	3.52	Pass	Peak	12	26294.3	/	-27.00	/	/	AVG

802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

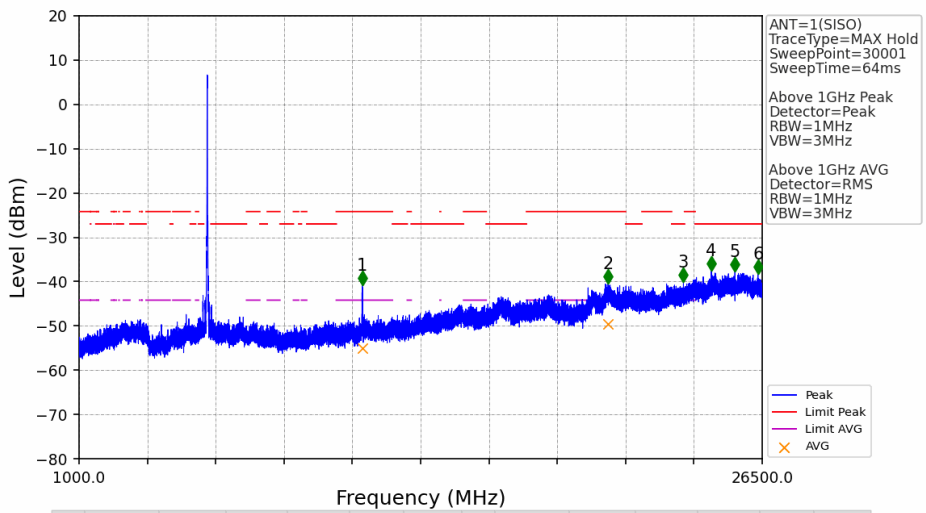


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-49.71	-27.00	19.71	Pass	Peak	3	5725.000	-26.38	27.00	50.38	Pass	Peak
2	5723.140	-24.13	22.76	43.89	Pass	Peak							

802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

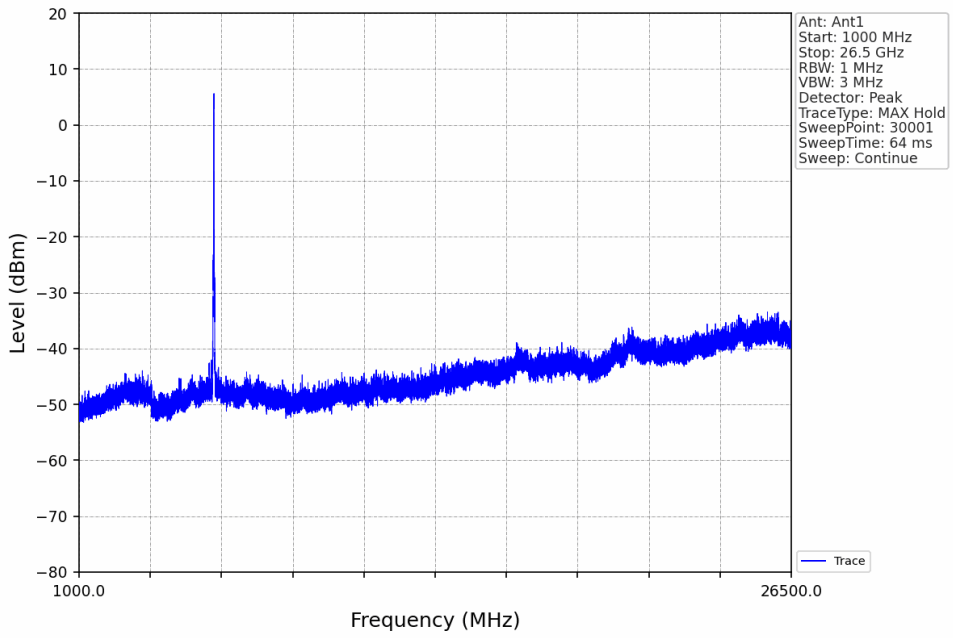


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

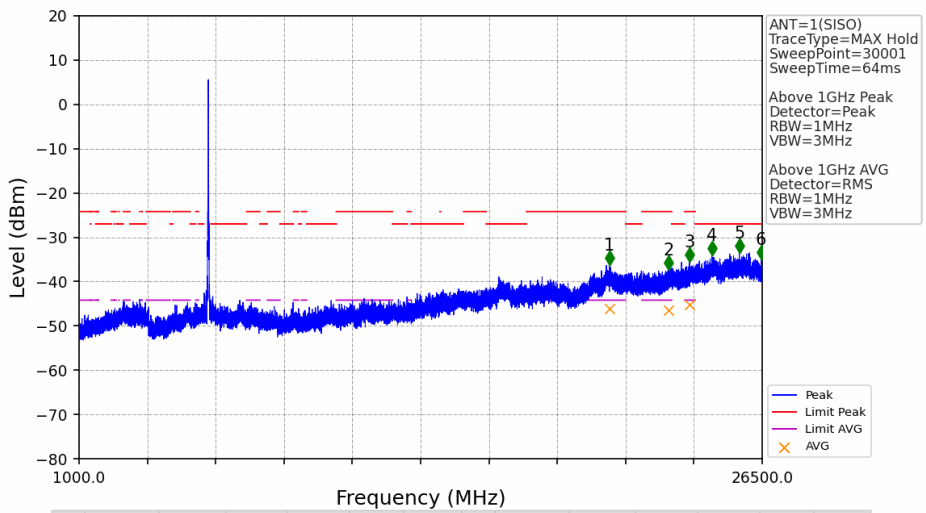


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	11571.45	-40.72	-21.20	16.52	Pass	Peak	7	11571.45	-54.98	-41.20	10.78	Pass	AVG
2	20746.35	-40.36	-21.20	16.16	Pass	Peak	8	20746.35	-49.56	-41.20	5.36	Pass	AVG
3	23559.85	-40.06	-27.00	10.06	Pass	Peak	9	23559.85	/	-27.00	/	/	AVG
4	24601.1	-37.51	-27.00	7.51	Pass	Peak	10	24601.1	/	-27.00	/	/	AVG
5	25480.85	-37.63	-27.00	7.63	Pass	Peak	11	25480.85	/	-27.00	/	/	AVG
6	26341.9	-38.24	-27.00	8.24	Pass	Peak	12	26341.9	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

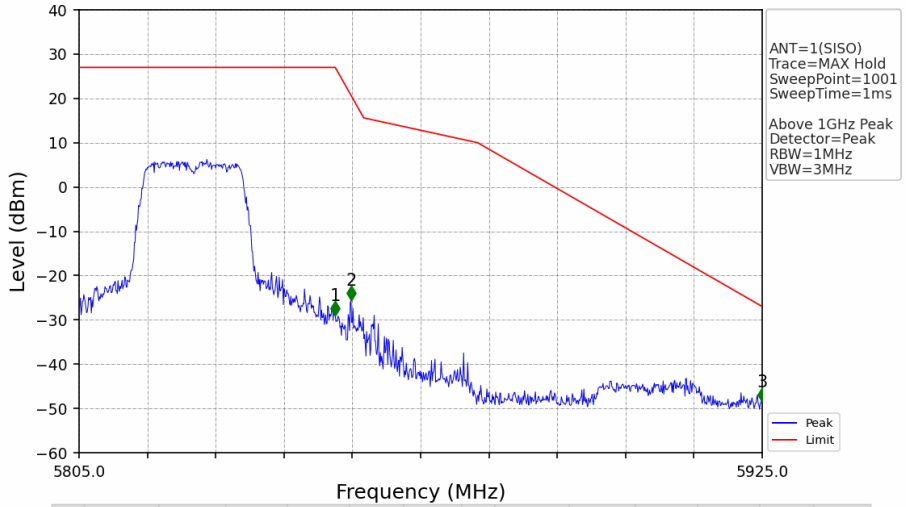


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



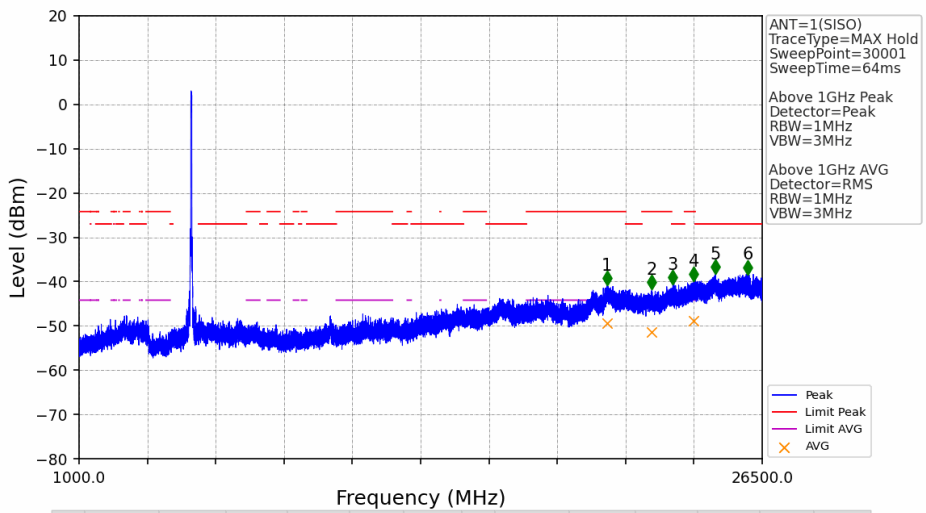
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20793.95	-36.15	-21.20	11.95	Pass	Peak	7	20793.95	-46.06	-41.20	1.86	Pass	AVG
2	23000.55	-37.28	-21.20	13.09	Pass	Peak	8	23000.55	-46.41	-41.20	2.21	Pass	AVG
3	23786.8	-35.55	-21.20	11.35	Pass	Peak	9	23786.8	-45.16	-41.20	0.96	Pass	AVG
4	24621.5	-33.99	-27.00	3.99	Pass	Peak	10	24621.5	/	-27.00	/	/	AVG
5	25647.45	-33.46	-27.00	3.46	Pass	Peak	11	25647.45	/	-27.00	/	/	AVG
6	26460.05	-35.03	-27.00	5.03	Pass	Peak	12	26460.05	/	-27.00	/	/	AVG

802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



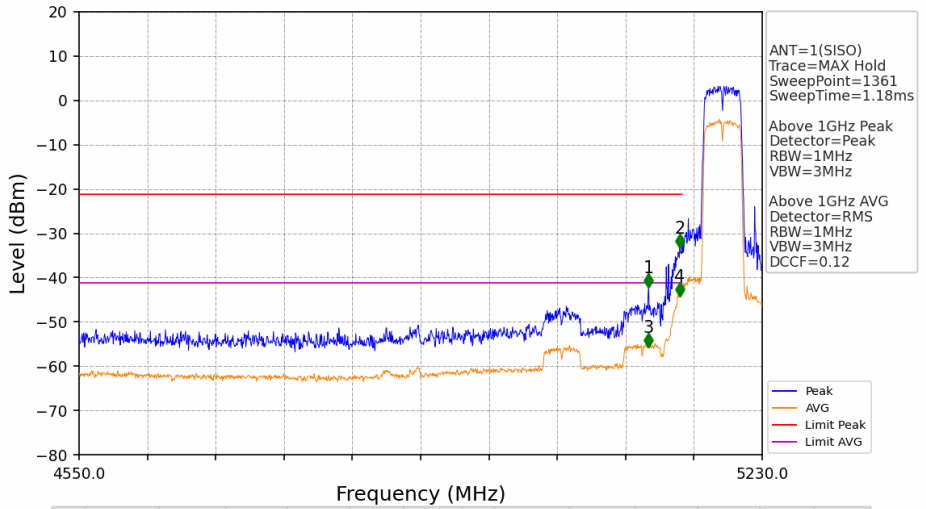
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5850.000	-28.98	27.00	52.98	Pass	Peak	3	5925.000	-48.49	-27.00	18.49	Pass	Peak
2	5852.760	-25.58	20.71	43.29	Pass	Peak							

802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



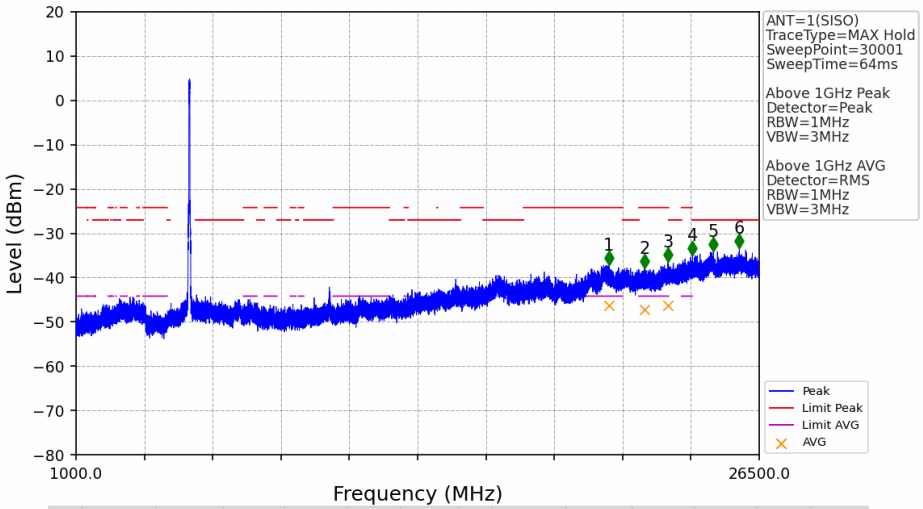
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20697.9	-40.85	-21.20	16.65	Pass	Peak	7	20697.9	-49.42	-41.20	5.22	Pass	AVG
2	22384.3	-41.66	-21.20	17.46	Pass	Peak	8	22384.3	-51.36	-41.20	7.16	Pass	AVG
3	23166.3	-40.56	-27.00	10.56	Pass	Peak	9	23166.3	/	-27.00	/	/	AVG
4	23942.35	-39.95	-21.20	15.75	Pass	Peak	10	23942.35	-48.76	-41.20	4.56	Pass	AVG
5	24754.1	-38.21	-27.00	8.21	Pass	Peak	11	24754.1	/	-27.00	/	/	AVG
6	25957.7	-38.32	-27.00	8.32	Pass	Peak	12	25957.7	/	-27.00	/	/	AVG

802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



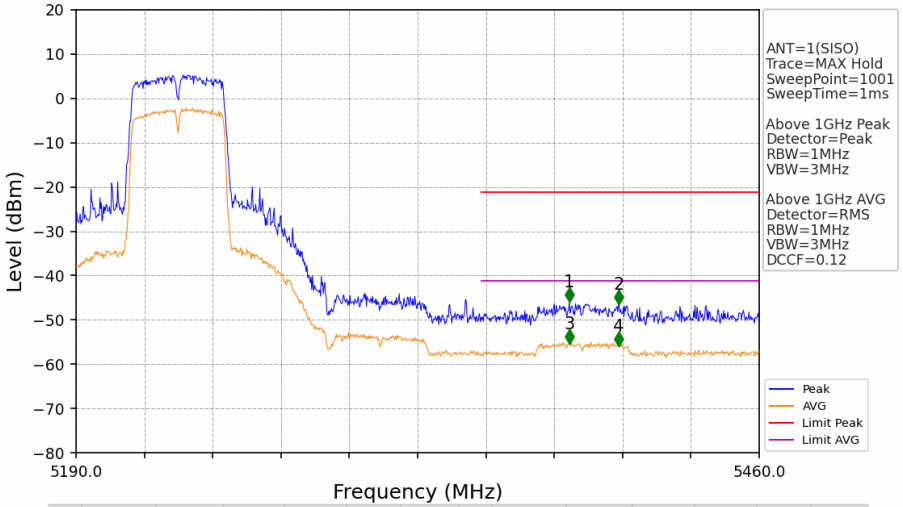
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5117.000	-42.30	-21.20	18.10	Pass	Peak	3	5117.000	-55.80	-41.20	11.60	Pass	AVG
2	5148.000	-33.27	-21.20	9.07	Pass	Peak	4	5148.000	-44.25	-41.20	0.05	Pass	AVG

802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



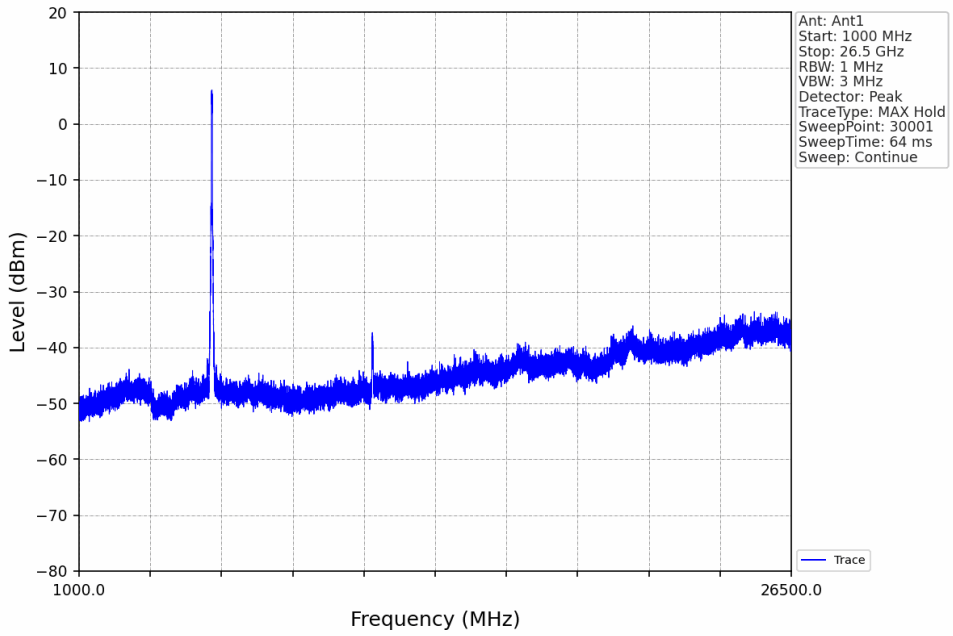
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20887.45	-37.16	-21.20	12.96	Pass	Peak	7	20887.45	-46.25	-41.20	2.05	Pass	AVG
2	22215.15	-37.88	-21.20	13.68	Pass	Peak	8	22215.15	-47.20	-41.20	3.00	Pass	AVG
3	23088.1	-36.46	-21.20	12.26	Pass	Peak	9	23088.1	-46.31	-41.20	2.11	Pass	AVG
4	24009.5	-34.98	-27.00	4.98	Pass	Peak	10	24009.5	/	-27.00	/	/	AVG
5	24790.65	-34.06	-27.00	4.06	Pass	Peak	11	24790.65	/	-27.00	/	/	AVG
6	25757.95	-33.25	-27.00	3.25	Pass	Peak	12	25757.95	/	-27.00	/	/	AVG

802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

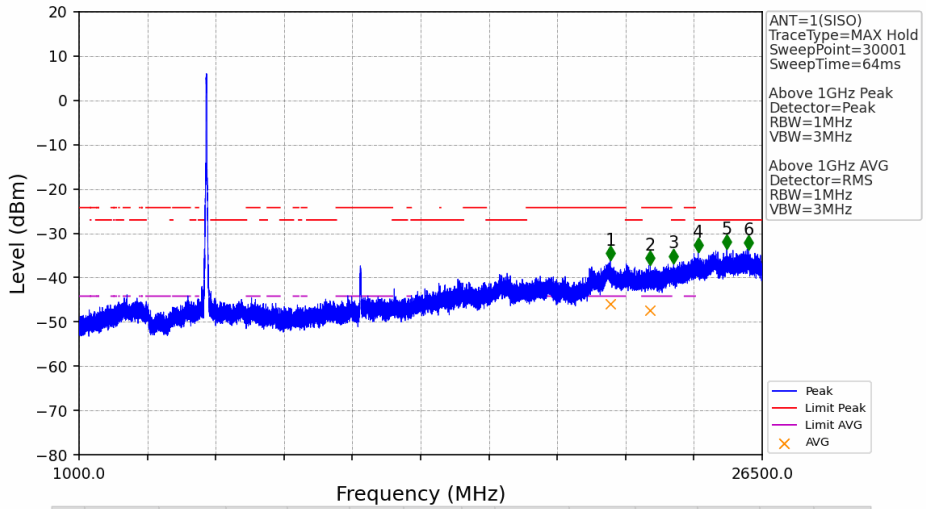


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5384.940	-45.88	-21.20	21.68	Pass	Peak	3	5384.940	-55.37	-41.20	11.17	Pass	AVG
2	5404.380	-46.48	-21.20	22.28	Pass	Peak	4	5404.380	-55.96	-41.20	11.76	Pass	AVG

802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

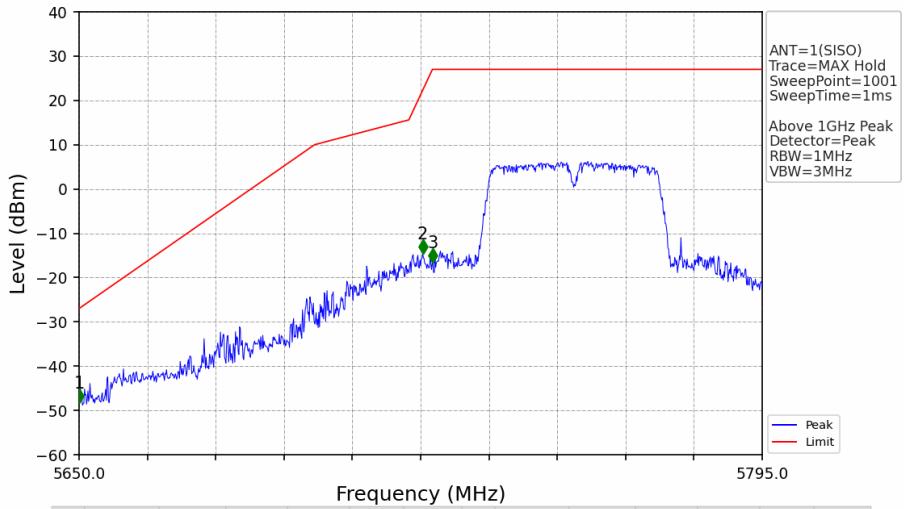


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



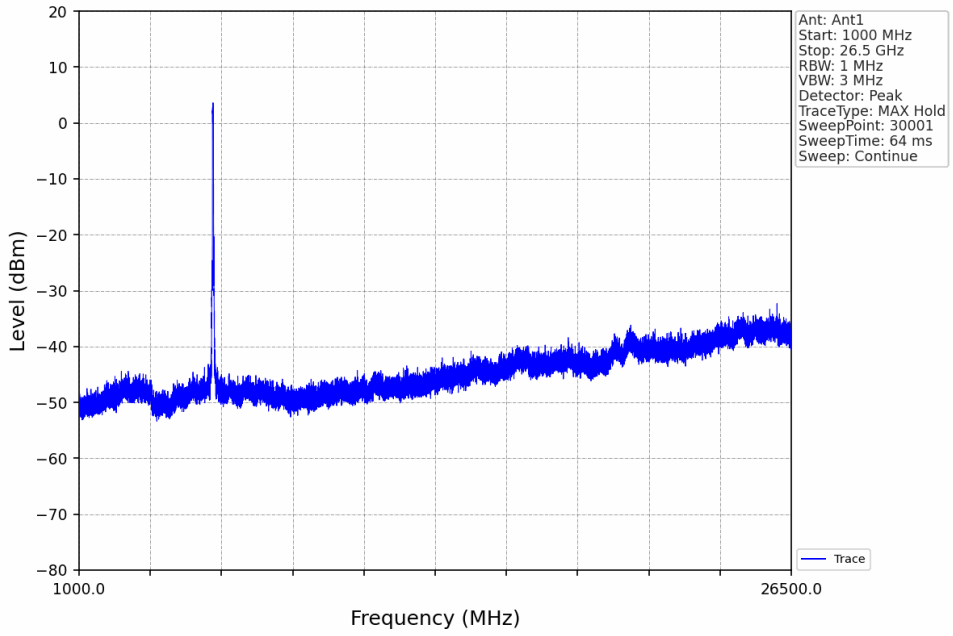
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20828.8	-36.10	-21.20	11.90	Pass	Peak	7	20828.8	-45.95	-41.20	1.75	Pass	AVG
2	22323.1	-37.21	-21.20	13.01	Pass	Peak	8	22323.1	-47.37	-41.20	3.17	Pass	AVG
3	23196.05	-36.69	-27.00	6.69	Pass	Peak	9	23196.05	/	-27.00	/	/	AVG
4	24108.95	-34.17	-27.00	4.17	Pass	Peak	10	24108.95	/	-27.00	/	/	AVG
5	25178.25	-33.56	-27.00	3.56	Pass	Peak	11	25178.25	/	-27.00	/	/	AVG
6	25993.4	-33.70	-27.00	3.71	Pass	Peak	12	25993.4	/	-27.00	/	/	AVG

802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

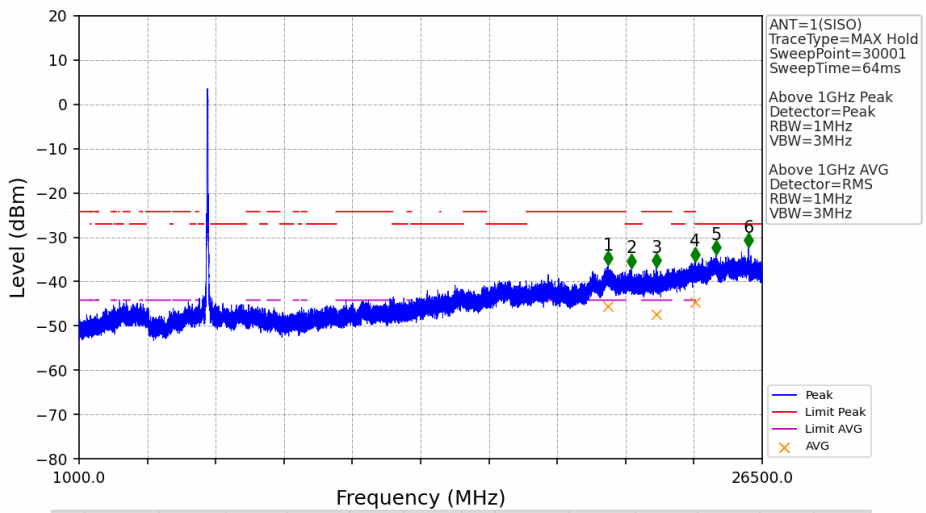


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	5650.000	-48.26	-27.00	18.26	Pass	Peak	3	5725.000	-16.55	27.00	40.55	Pass	Peak
2	5722.935	-14.66	22.29	33.96	Pass	Peak							

802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

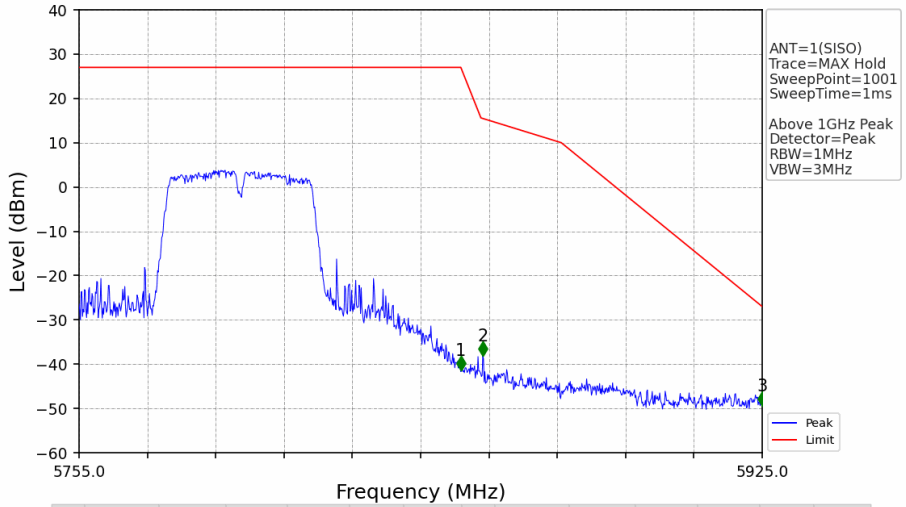


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	20752.3	-36.18	-21.20	11.98	Pass	Peak	7	20752.3	-45.61	-41.20	1.41	Pass	AVG
2	21625.25	-36.87	-27.00	6.87	Pass	Peak	8	21625.25	/	-27.00	/	/	AVG
3	22544.95	-36.70	-21.20	12.49	Pass	Peak	9	22544.95	-47.41	-41.20	3.21	Pass	AVG
4	23994.2	-35.41	-21.20	11.21	Pass	Peak	10	23994.2	-44.58	-41.20	0.38	Pass	AVG
5	24776.2	-33.92	-27.00	3.92	Pass	Peak	11	24776.2	/	-27.00	/	/	AVG
6	25990	-32.31	-27.00	2.31	Pass	Peak	12	25990	/	-27.00	/	/	AVG

802.11n(HT40)_HCH_5795MHz_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	5850.000	-41.45	27.00	65.45	Pass	Peak	3	5925.000	-49.33	-27.00	19.33	Pass	Peak
2	5855.470	-38.17	15.47	50.64	Pass	Peak							

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
Carrier Wave	SISO	5180	20	102	5179.948	5150 to 5250	Pass
				120	5179.948	5150 to 5250	Pass
				138	5179.948	5150 to 5250	Pass
			-30	120	5179.948	5150 to 5250	Pass
			-20	120	5179.948	5150 to 5250	Pass
			-10	120	5179.948	5150 to 5250	Pass
			0	120	5179.948	5150 to 5250	Pass
			10	120	5179.949	5150 to 5250	Pass
			30	120	5179.949	5150 to 5250	Pass
			40	120	5179.949	5150 to 5250	Pass
			50	120	5179.949	5150 to 5250	Pass
		5200	20	102	5199.949	5150 to 5250	Pass
				120	5199.949	5150 to 5250	Pass
				138	5199.949	5150 to 5250	Pass
			-30	120	5199.949	5150 to 5250	Pass
			-20	120	5199.949	5150 to 5250	Pass
			-10	120	5199.949	5150 to 5250	Pass
			0	120	5199.949	5150 to 5250	Pass
			10	120	5199.950	5150 to 5250	Pass
			30	120	5199.950	5150 to 5250	Pass
			40	120	5199.950	5150 to 5250	Pass
			50	120	5199.950	5150 to 5250	Pass
		5240	20	102	5239.949	5150 to 5250	Pass
				120	5239.949	5150 to 5250	Pass
				138	5239.950	5150 to 5250	Pass
			-30	120	5239.950	5150 to 5250	Pass
			-20	120	5239.950	5150 to 5250	Pass
			-10	120	5239.950	5150 to 5250	Pass
			0	120	5239.950	5150 to 5250	Pass
			10	120	5239.950	5150 to 5250	Pass
			30	120	5239.950	5150 to 5250	Pass
			40	120	5239.950	5150 to 5250	Pass
			50	120	5239.950	5150 to 5250	Pass
		5745	20	102	5744.945	5725 to 5850	Pass
				120	5744.945	5725 to 5850	Pass
				138	5744.945	5725 to 5850	Pass
			-30	120	5744.945	5725 to 5850	Pass
			-20	120	5744.945	5725 to 5850	Pass
			-10	120	5744.945	5725 to 5850	Pass
			0	120	5744.945	5725 to 5850	Pass
			10	120	5744.945	5725 to 5850	Pass

			30	120	5744.945	5725 to 5850	Pass
			40	120	5744.945	5725 to 5850	Pass
			50	120	5744.945	5725 to 5850	Pass
		5785	20	102	5784.944	5725 to 5850	Pass
				120	5784.944	5725 to 5850	Pass
				138	5784.944	5725 to 5850	Pass
			-30	120	5784.944	5725 to 5850	Pass
			-20	120	5784.944	5725 to 5850	Pass
			-10	120	5784.944	5725 to 5850	Pass
			0	120	5784.944	5725 to 5850	Pass
			10	120	5784.944	5725 to 5850	Pass
			30	120	5784.944	5725 to 5850	Pass
			40	120	5784.944	5725 to 5850	Pass
			50	120	5784.944	5725 to 5850	Pass
		5825	20	102	5824.944	5725 to 5850	Pass
				120	5824.944	5725 to 5850	Pass
				138	5824.944	5725 to 5850	Pass
			-30	120	5824.944	5725 to 5850	Pass
			-20	120	5824.944	5725 to 5850	Pass
			-10	120	5824.944	5725 to 5850	Pass
			0	120	5824.944	5725 to 5850	Pass
			10	120	5824.944	5725 to 5850	Pass
			30	120	5824.943	5725 to 5850	Pass
			40	120	5824.944	5725 to 5850	Pass
			50	120	5824.944	5725 to 5850	Pass
		5190	20	102	5189.950	5150 to 5250	Pass
				120	5189.950	5150 to 5250	Pass
				138	5189.950	5150 to 5250	Pass
			-30	120	5189.950	5150 to 5250	Pass
			-20	120	5189.950	5150 to 5250	Pass
			-10	120	5189.950	5150 to 5250	Pass
			0	120	5189.950	5150 to 5250	Pass
			10	120	5189.950	5150 to 5250	Pass
			30	120	5189.950	5150 to 5250	Pass
			40	120	5189.950	5150 to 5250	Pass
			50	120	5189.951	5150 to 5250	Pass
		5230	20	102	5229.950	5150 to 5250	Pass
				120	5229.950	5150 to 5250	Pass
				138	5229.950	5150 to 5250	Pass
			-30	120	5229.950	5150 to 5250	Pass
			-20	120	5229.950	5150 to 5250	Pass
			-10	120	5229.950	5150 to 5250	Pass
			0	120	5229.950	5150 to 5250	Pass
			10	120	5229.950	5150 to 5250	Pass
			30	120	5229.950	5150 to 5250	Pass
			40	120	5229.950	5150 to 5250	Pass
			50	120	5229.950	5150 to 5250	Pass
		5755	20	102	5754.945	5725 to 5850	Pass
				120	5754.945	5725 to 5850	Pass
				138	5754.945	5725 to 5850	Pass
			-30	120	5754.945	5725 to 5850	Pass
			-20	120	5754.945	5725 to 5850	Pass

			-10	120	5754.945	5725 to 5850	Pass
			0	120	5754.945	5725 to 5850	Pass
			10	120	5754.945	5725 to 5850	Pass
			30	120	5754.945	5725 to 5850	Pass
			40	120	5754.945	5725 to 5850	Pass
			50	120	5754.945	5725 to 5850	Pass
		5795	20	102	5794.944	5725 to 5850	Pass
				120	5794.944	5725 to 5850	Pass
				138	5794.944	5725 to 5850	Pass
			-30	120	5794.944	5725 to 5850	Pass
			-20	120	5794.944	5725 to 5850	Pass
			-10	120	5794.944	5725 to 5850	Pass
			0	120	5794.944	5725 to 5850	Pass
			10	120	5794.944	5725 to 5850	Pass
			30	120	5794.944	5725 to 5850	Pass
			40	120	5794.944	5725 to 5850	Pass
			50	120	5794.944	5725 to 5850	Pass

--------- End of Report -------