

Appendix - 5G WIFI

1. Duty Cycle

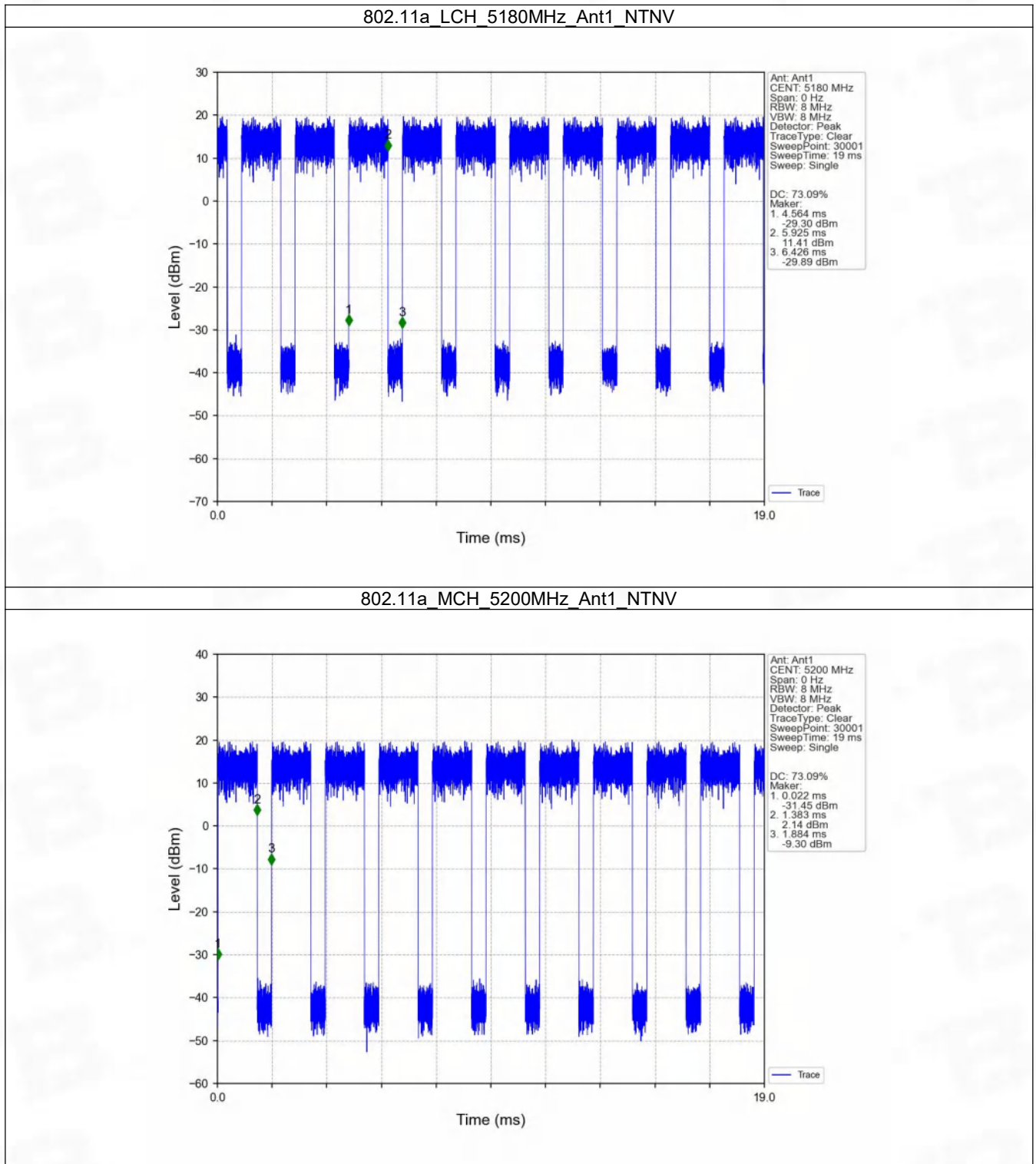
1.1 Test Result

1.1.1 Ant1

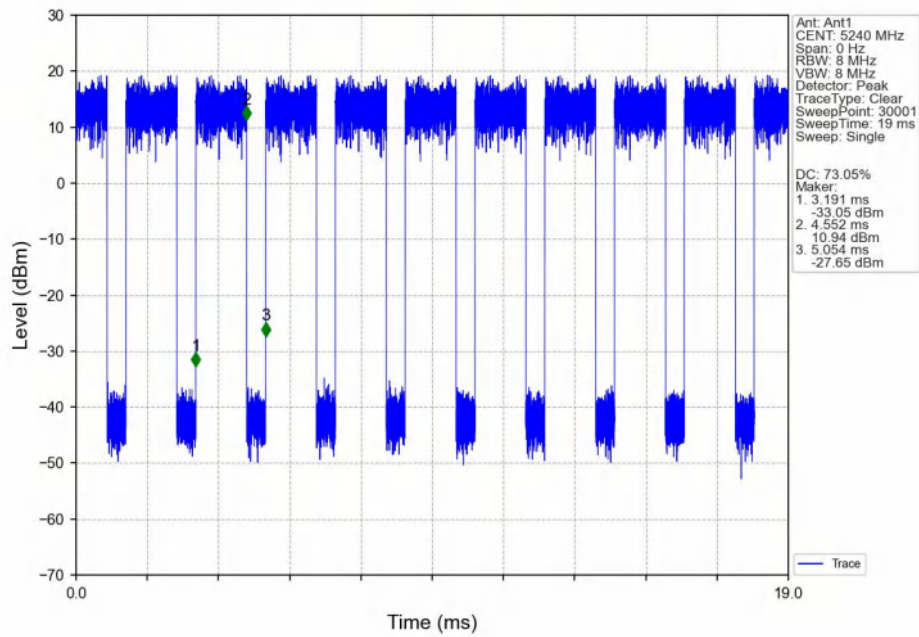
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	SISO	5180	1.361	1.862	73.09	1.36	0.03
			5200	1.361	1.862	73.09	1.36	0.03
			5240	1.361	1.863	73.05	1.36	0.02
	802.11n (HT20)	SISO	5180	1.273	1.774	71.76	1.44	0.03
			5200	1.272	1.774	71.70	1.44	0.03
			5240	1.273	1.774	71.76	1.44	0.03

1.2 Test Graph

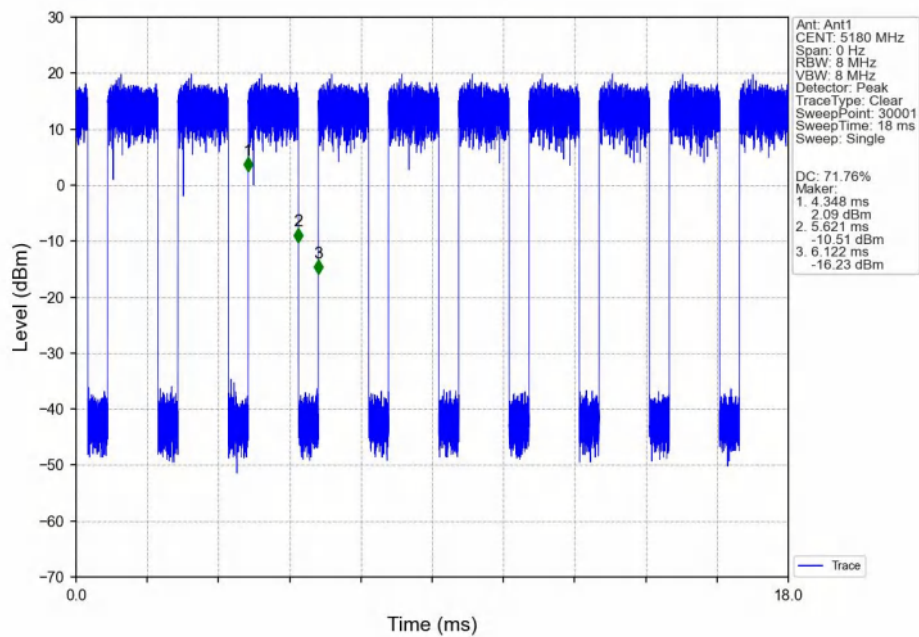
1.2.1 Ant1



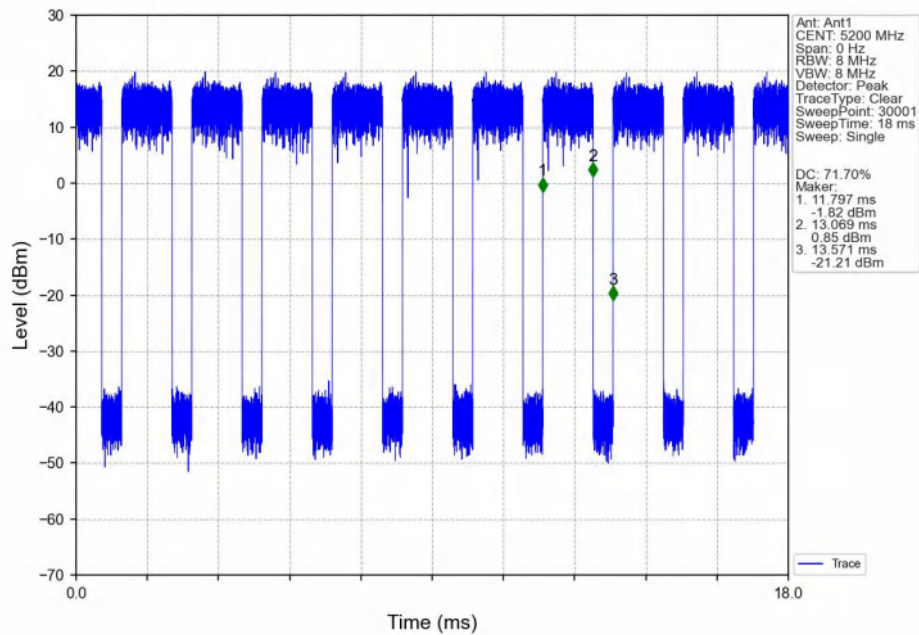
802.11a_HCH_5240MHz_Ant1_NTNV



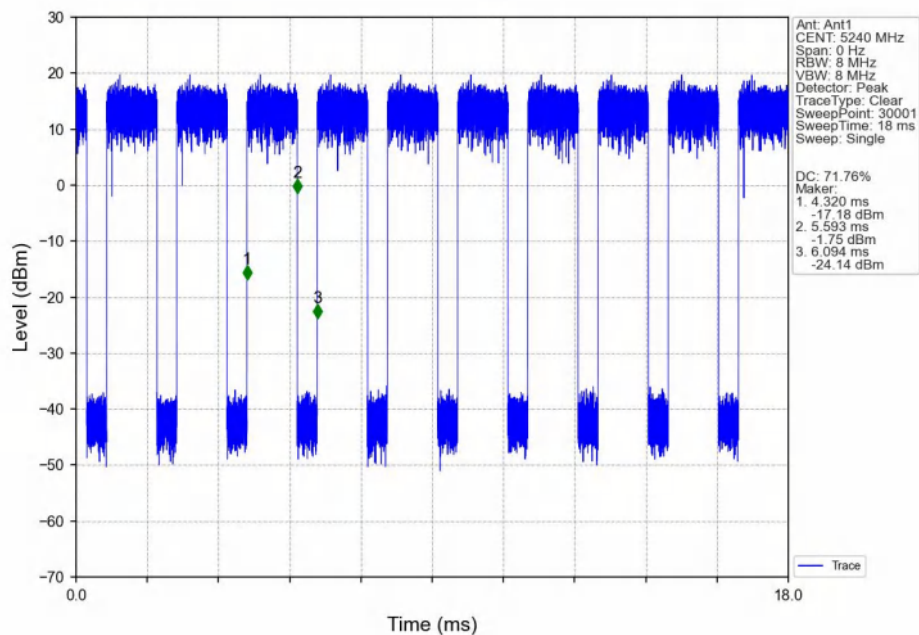
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



2. Frequency Error

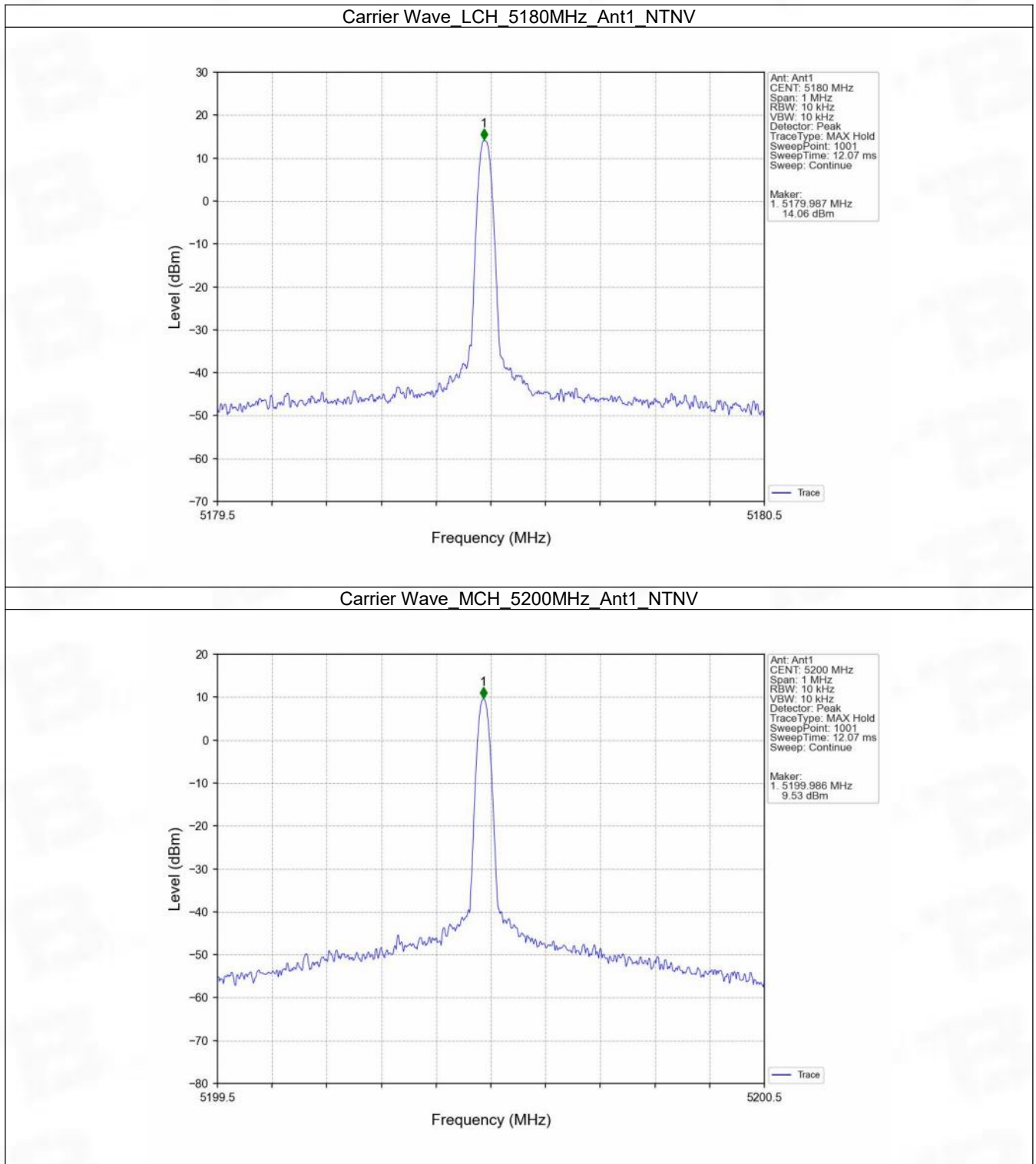
2.1 Test Result

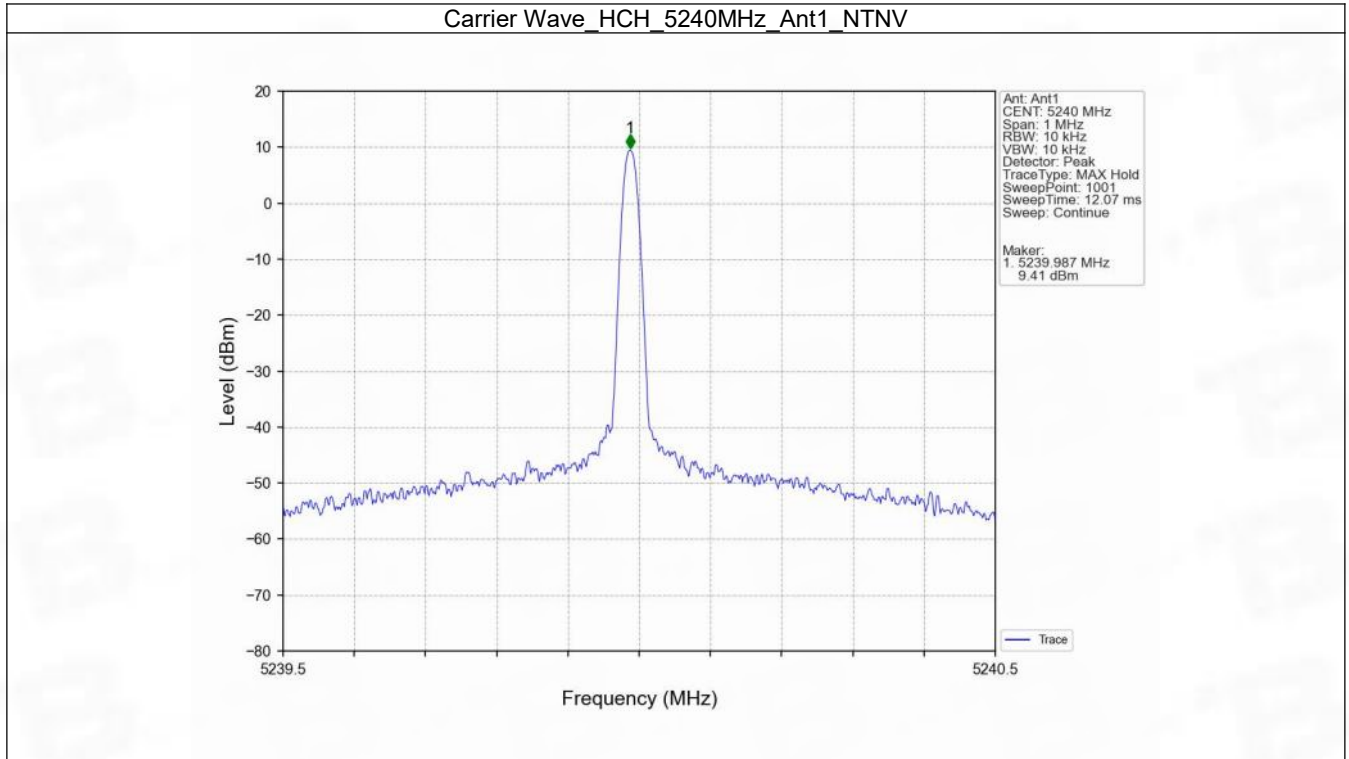
2.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	5180	5179.987	-2.51	-20 to 20	Pass
			5200	5199.986	-2.69	-20 to 20	Pass
			5240	5239.987	-2.48	-20 to 20	Pass

2.2 Test Graph

2.2.1 Ant1





3. Occupied Bandwidth

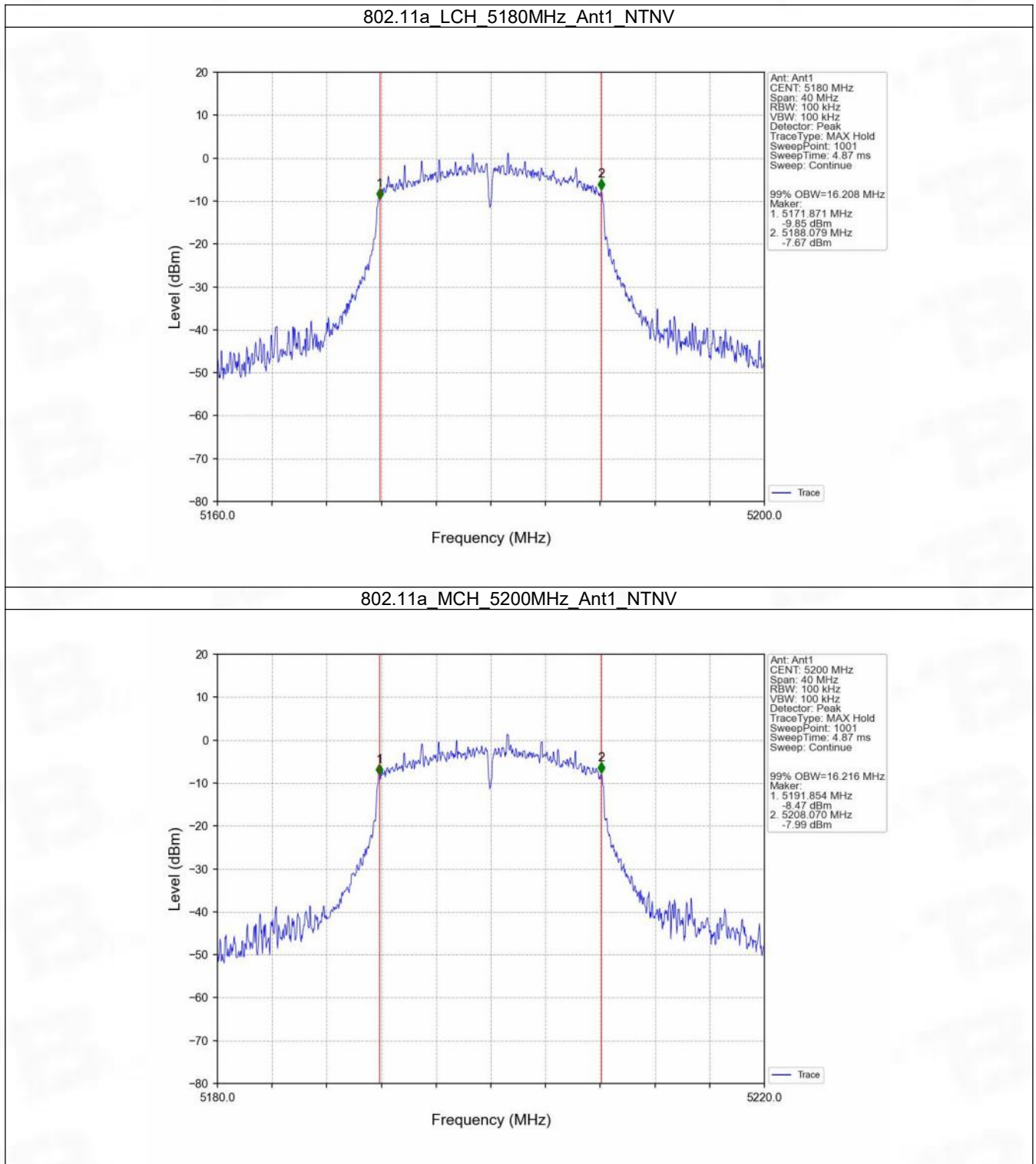
3.1 Test Result

3.1.1 OBW

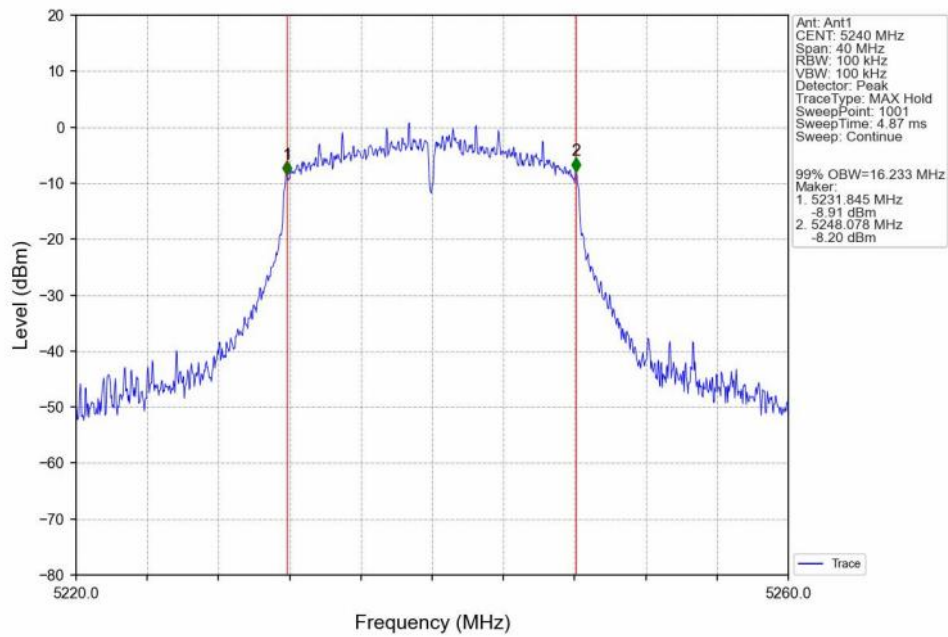
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11a	SISO	5180	16.208	≤ 20	Pass
			5200	16.216	≤ 20	Pass
			5240	16.233	≤ 20	Pass
	802.11n (HT20)	SISO	5180	17.360	≤ 20	Pass
			5200	17.328	≤ 20	Pass
			5240	17.344	≤ 20	Pass

3.2 Test Graph

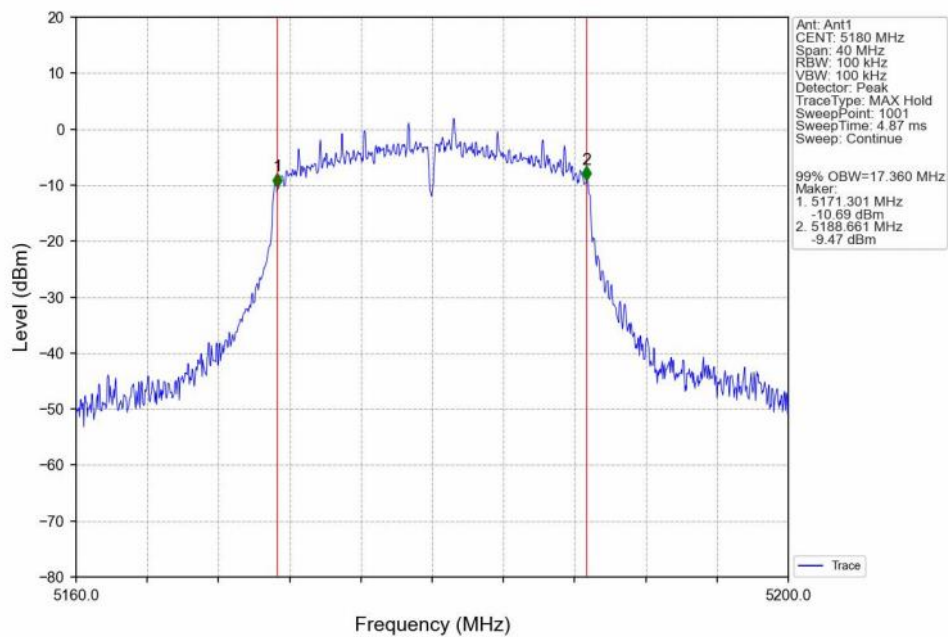
3.2.1 OBW



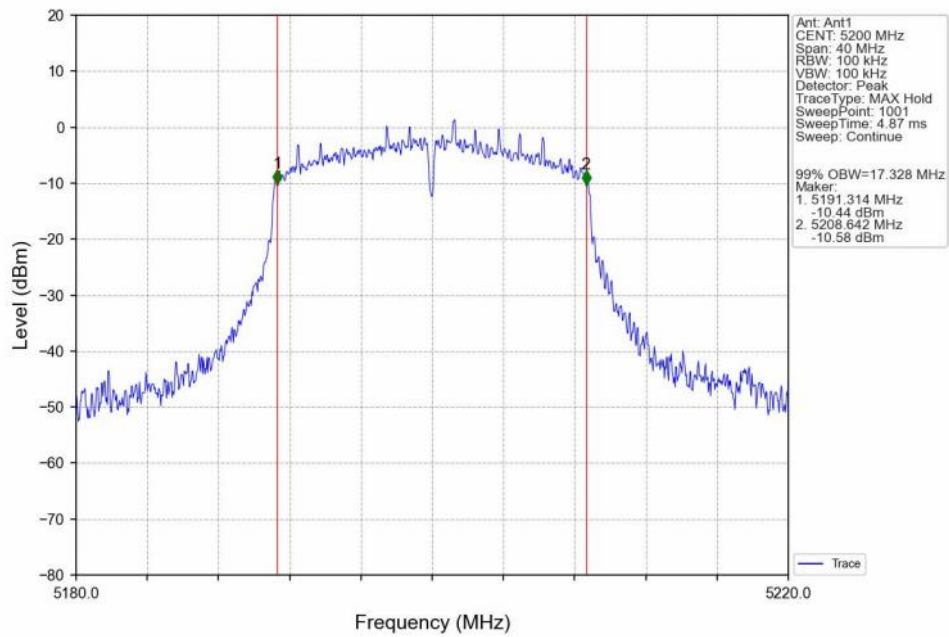
802.11a_HCH_5240MHz_Ant1_NTNV



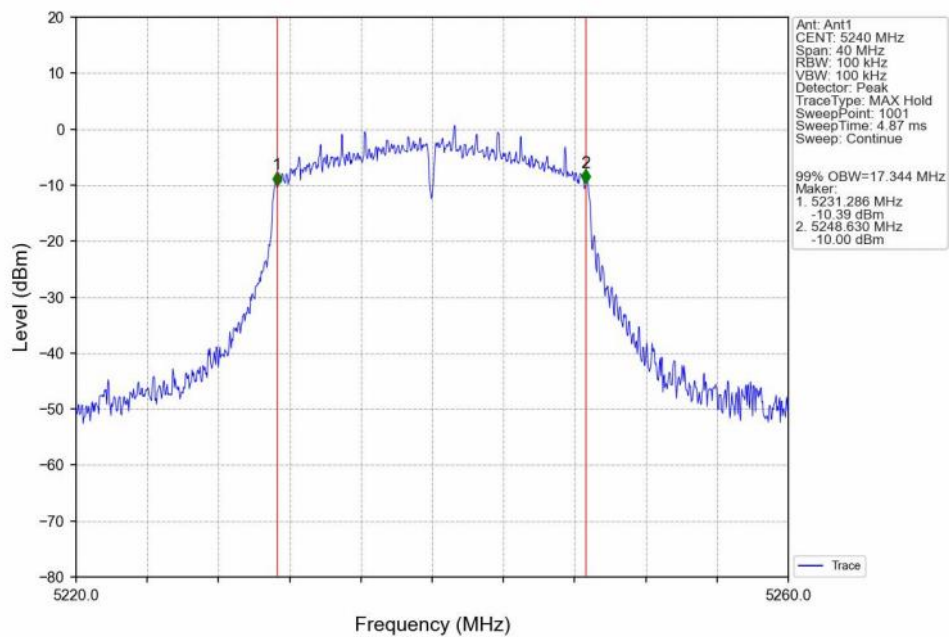
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



4. Antenna Power

4.1 Test Result

4.1.1 Power_NTNV

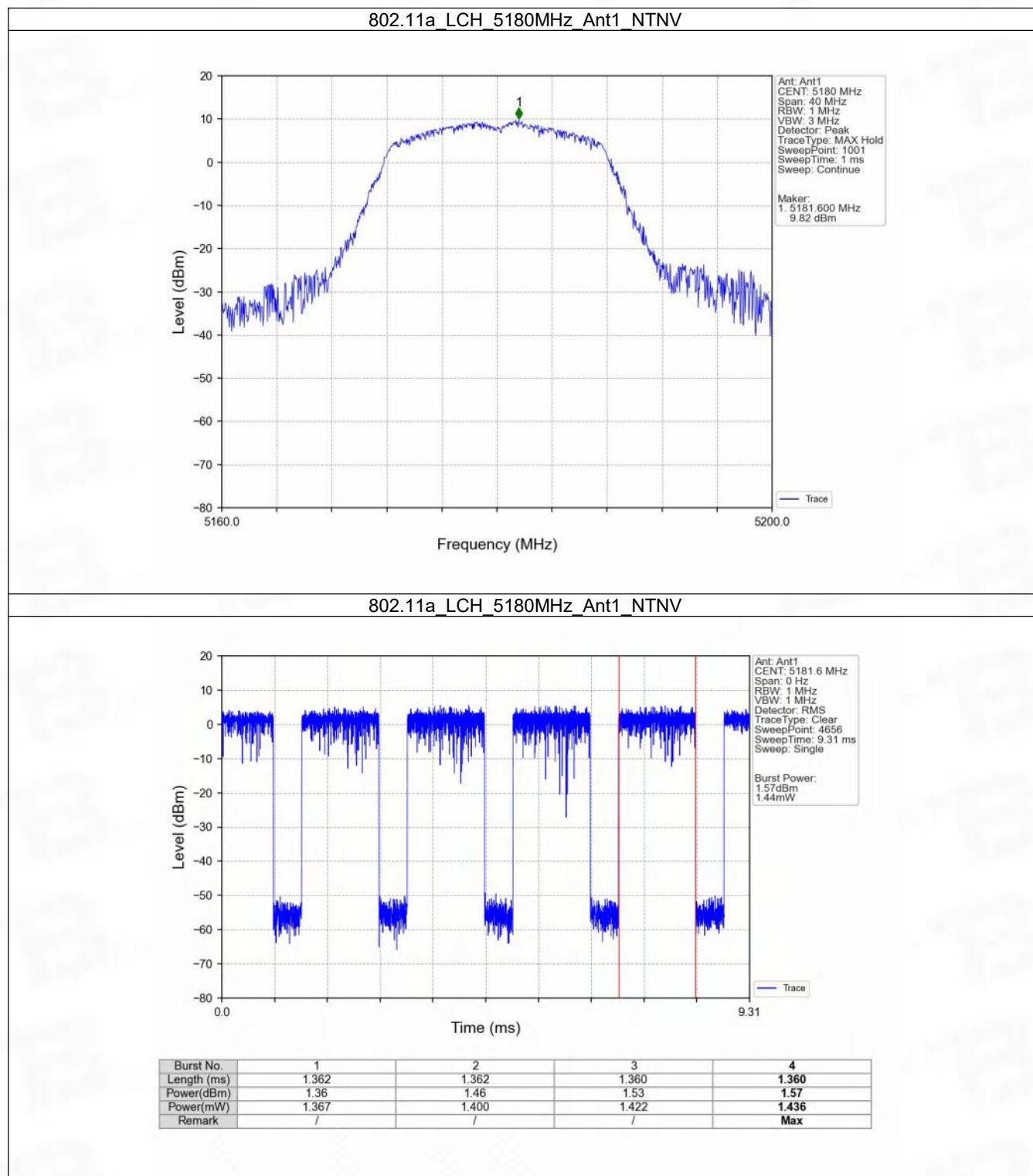
NTNV									
Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
				Measured	Limit		Measured	Limit	
802.11a	SISO	5180	1	1.436	≤ 10.00	1.400	2.57	-80 to 20	Pass
		5200	1	1.480	≤ 10.00	1.400	5.71	-80 to 20	Pass
		5240	1	1.332	≤ 10.00	1.400	-4.86	-80 to 20	Pass
802.11n (HT20)	SISO	5180	1	1.383	≤ 10.00	1.400	-1.21	-80 to 20	Pass
		5200	1	1.388	≤ 10.00	1.400	-0.86	-80 to 20	Pass
		5240	1	1.327	≤ 10.00	1.400	-5.21	-80 to 20	Pass

4.1.2 EIRP_NTNV

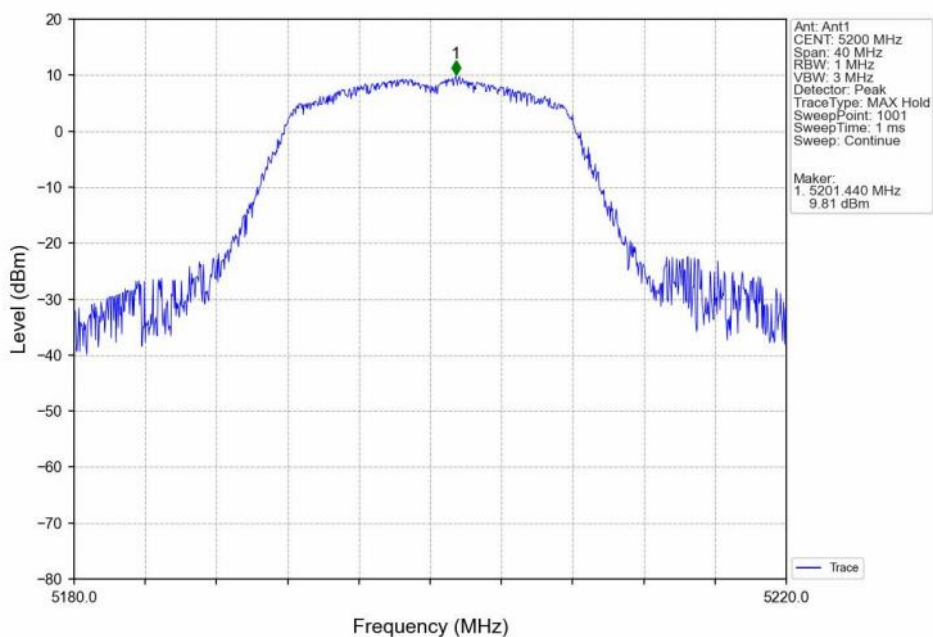
NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (mW/MHz)		Verdict
					Result	Limit	
802.11a	SISO	5180	1	2.22	2.39	≤ 10	Pass
		5200	1	2.22	2.47	≤ 10	Pass
		5240	1	2.22	2.22	≤ 10	Pass
802.11n (HT20)	SISO	5180	1	2.22	2.31	≤ 10	Pass
		5200	1	2.22	2.31	≤ 10	Pass
		5240	1	2.22	2.21	≤ 10	Pass

4.2 Test Graph

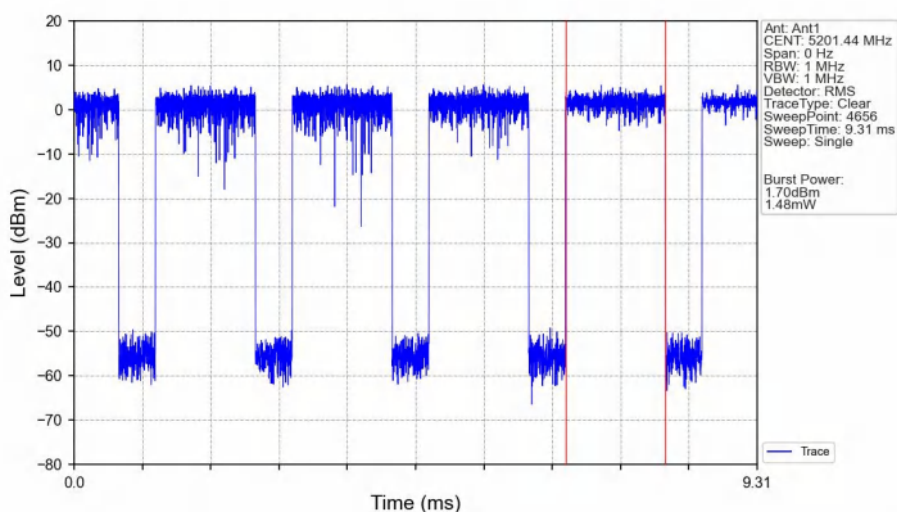
4.2.1 Power_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

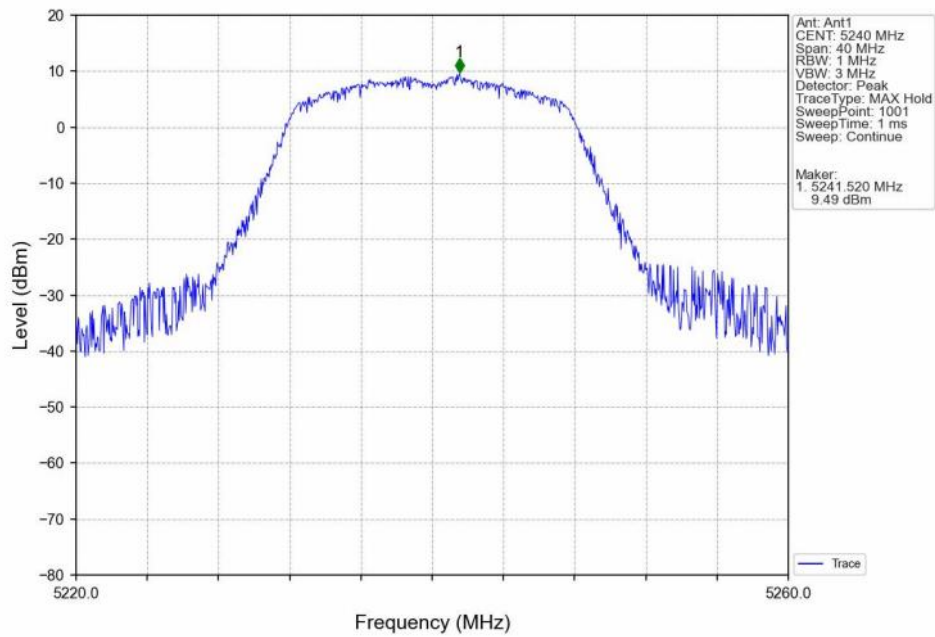


802.11a_MCH_5200MHz_Ant1_NTNV

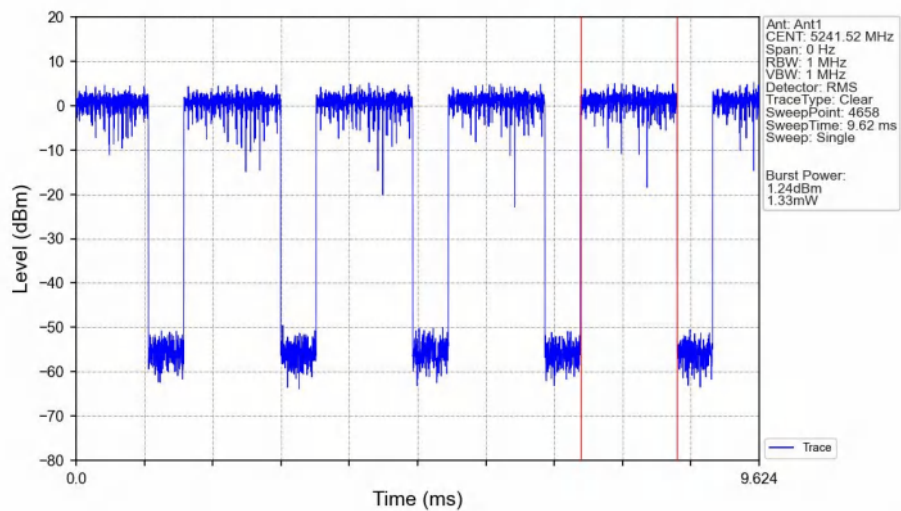


Burst No.	1	2	3	4
Length (ms)	1.362	1.360	1.360	1.360
Power(dBm)	1.47	1.59	1.66	1.70
Power(mW)	1.404	1.442	1.464	1.480
Remark	/	/	/	Max

802.11a_HCH_5240MHz_Ant1_NTNV

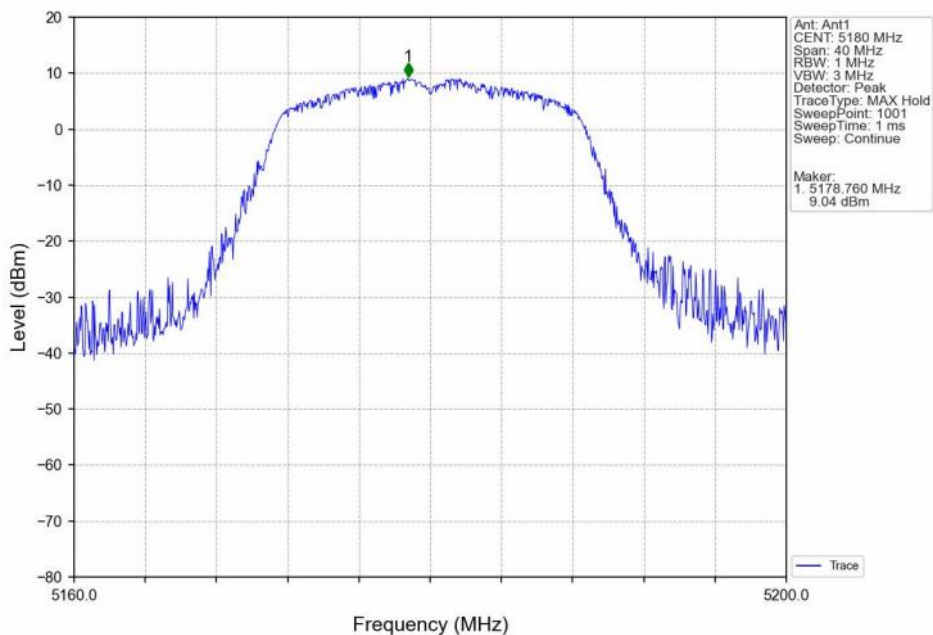


802.11a_HCH_5240MHz_Ant1_NTNV

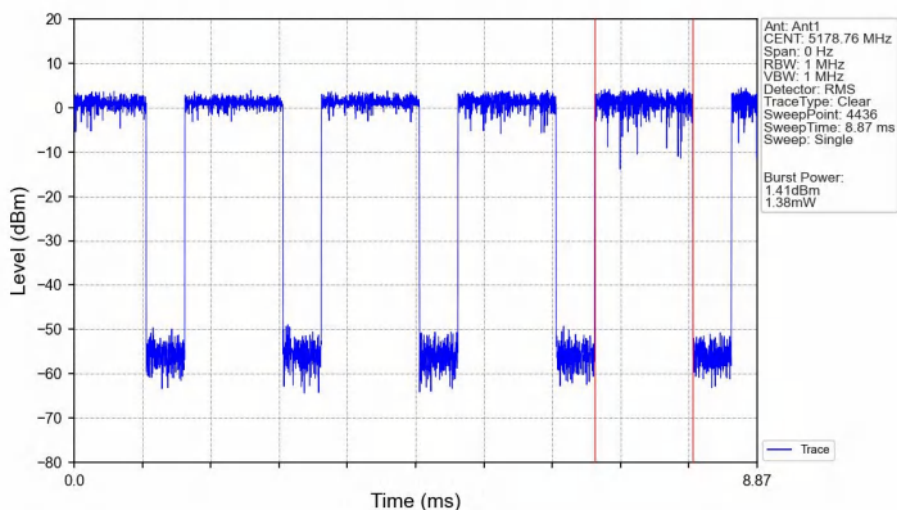


Burst No.	1	2	3	4
Length (ms)	1.360	1.360	1.360	1.360
Power(dBm)	1.00	1.12	1.19	1.24
Power(mW)	1.260	1.294	1.314	1.332
Remark	/	/	/	Max

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

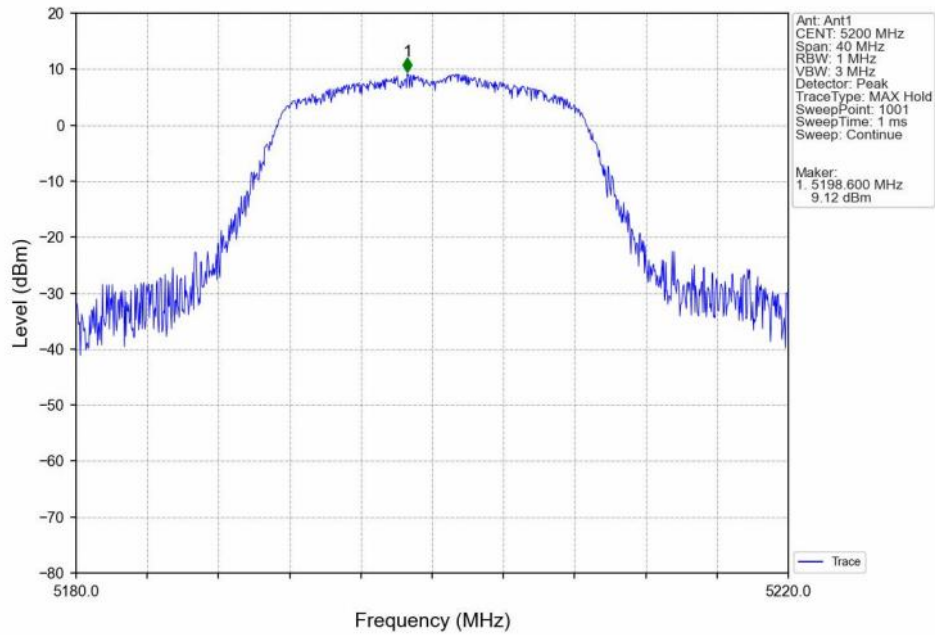


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

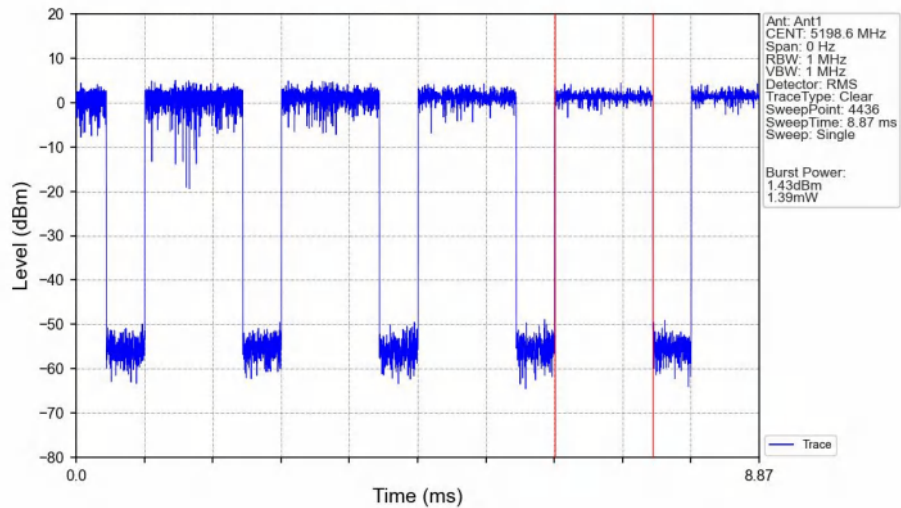


Burst No.	1	2	3	4
Length (ms)	1.272	1.274	1.274	1.274
Power(dBm)	1.21	1.31	1.36	1.41
Power(mW)	1.322	1.351	1.369	1.383
Remark	/	/	/	Max

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

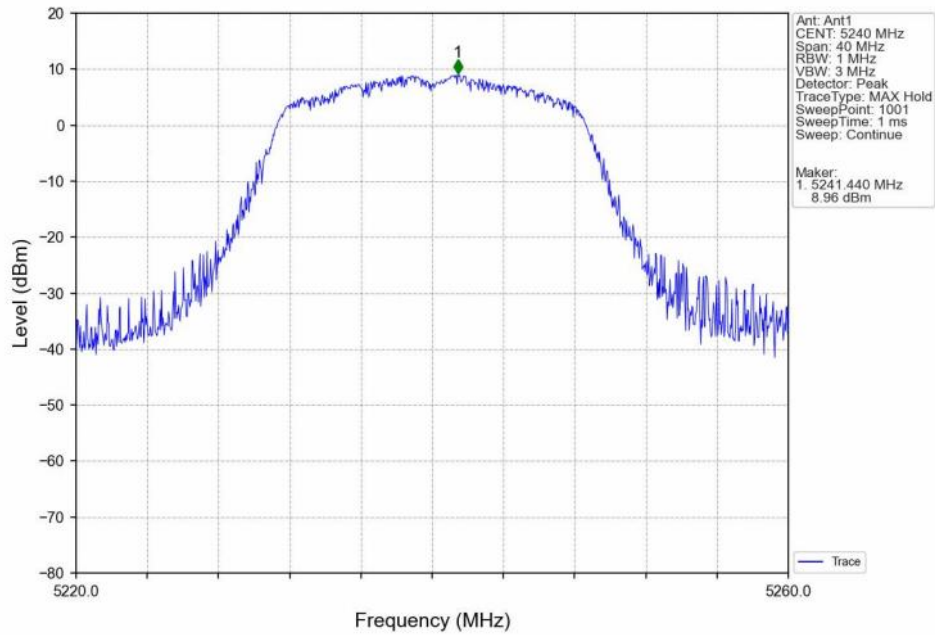


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

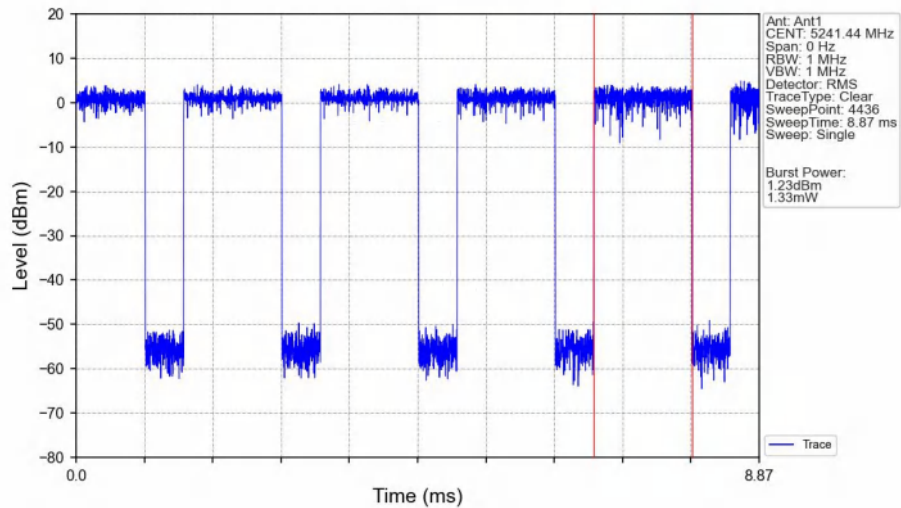


Burst No.	1	2	3	4
Length (ms)	1.272	1.272	1.272	1.272
Power(dBm)	1.19	1.30	1.37	1.43
Power(mW)	1.315	1.350	1.372	1.388
Remark	/	/	/	Max

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Burst No.	1	2	3	4
Length (ms)	1.272	1.274	1.274	1.274
Power(dBm)	1.02	1.12	1.19	1.23
Power(mW)	1.266	1.294	1.314	1.327
Remark	/	/	/	Max

5. Adjacent Channel Leakage Power

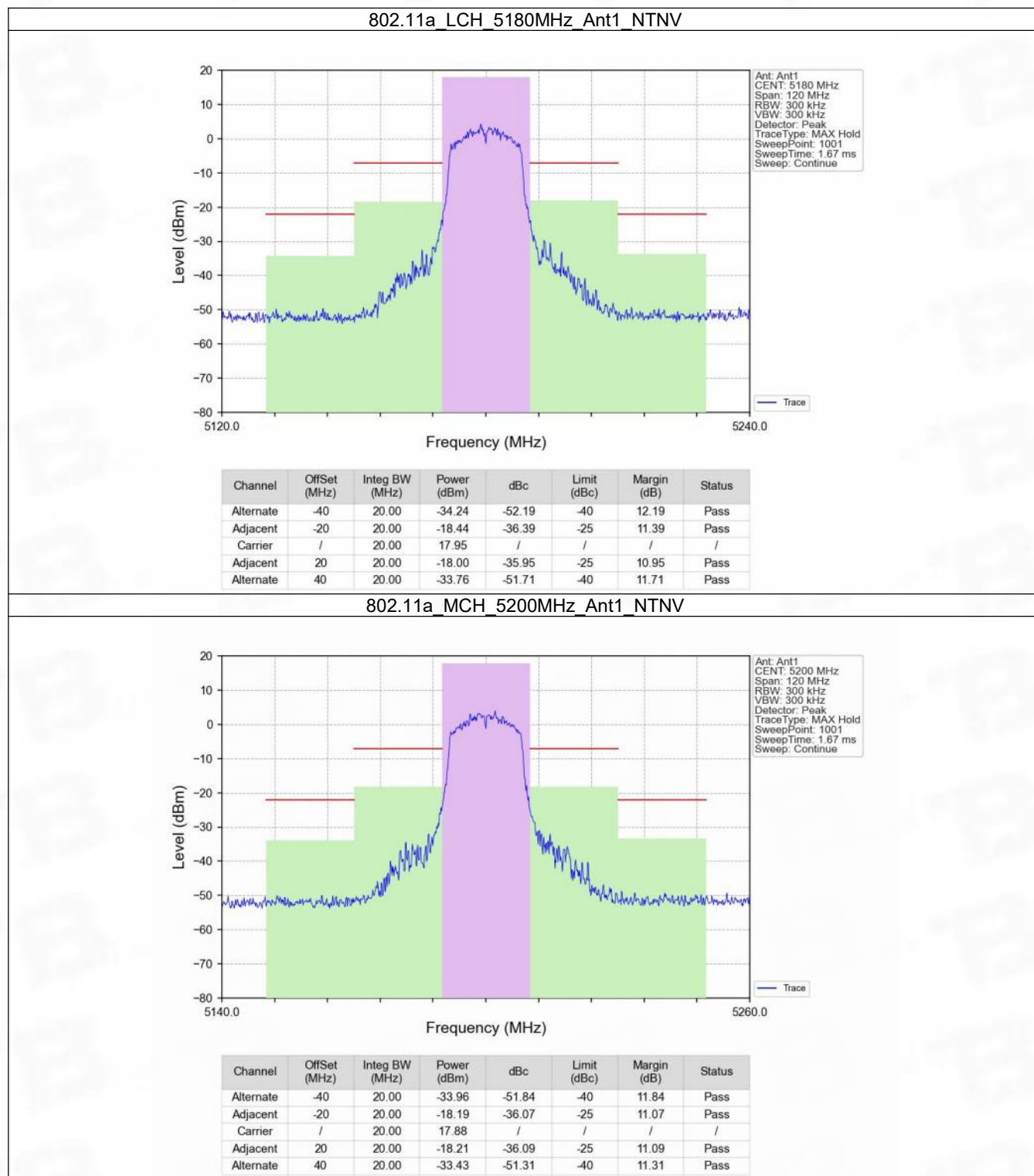
5.1 Test Result

5.1.1 ACLR_NTNV_SISO

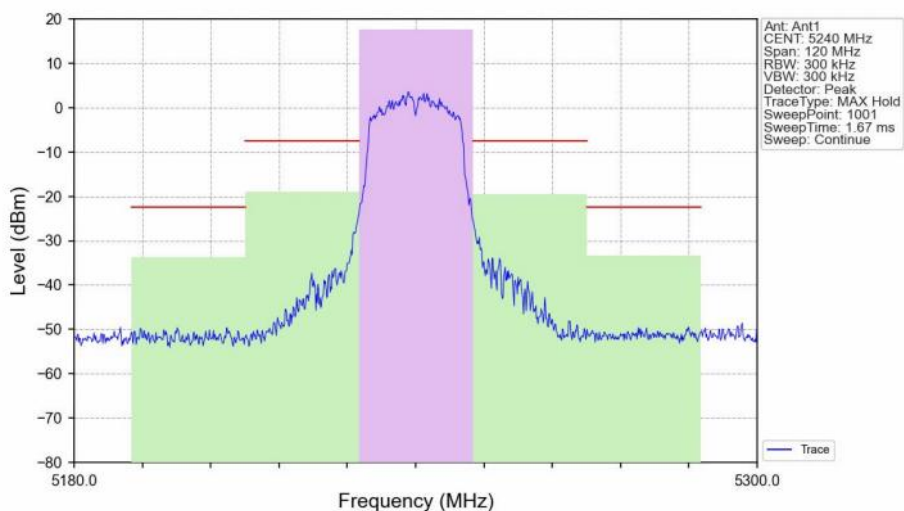
Mode	TX Type	Frequency (MHz)	ANT	NTNV					Verdict
				Offset (MHz)	Integ BW (MHz)	Power (dBm)	Result (dBc)	Limit (dBc)	
802.11a	SISO	5180	1	-40	20	-34.24	-52.19	<=-40	Pass
				-20	20	-18.44	-36.39	<=-25	Pass
				0	20	17.95	/	/	/
				20	20	-18.00	-35.95	<=-25	Pass
				40	20	-33.76	-51.71	<=-40	Pass
		5200	1	-40	20	-33.96	-51.84	<=-40	Pass
				-20	20	-18.19	-36.07	<=-25	Pass
				0	20	17.88	/	/	/
				20	20	-18.21	-36.09	<=-25	Pass
				40	20	-33.43	-51.31	<=-40	Pass
		5240	1	-40	20	-33.80	-51.35	<=-40	Pass
				-20	20	-19.05	-36.60	<=-25	Pass
802.11n (HT20)	SISO	5180	1	0	20	17.55	/	/	/
				20	20	-19.52	-37.07	<=-25	Pass
				40	20	-33.36	-50.91	<=-40	Pass
		5200	1	-40	20	-34.13	-51.80	<=-40	Pass
				-20	20	-16.38	-34.05	<=-25	Pass
				0	20	17.67	/	/	/
				20	20	-17.96	-35.63	<=-25	Pass
				40	20	-33.71	-51.38	<=-40	Pass
		5240	1	-40	20	-33.97	-51.67	<=-40	Pass
				-20	20	-16.37	-34.07	<=-25	Pass
				0	20	17.70	/	/	/
				20	20	-17.59	-35.29	<=-25	Pass
				40	20	-33.45	-51.15	<=-40	Pass
		5240	1	-40	20	-33.83	-51.36	<=-40	Pass
				-20	20	-16.22	-33.75	<=-25	Pass
				0	20	17.53	/	/	/
				20	20	-18.12	-35.65	<=-25	Pass
				40	20	-33.31	-50.84	<=-40	Pass

5.2 Test Graph

5.2.1 ACLR_NTNV_SISO

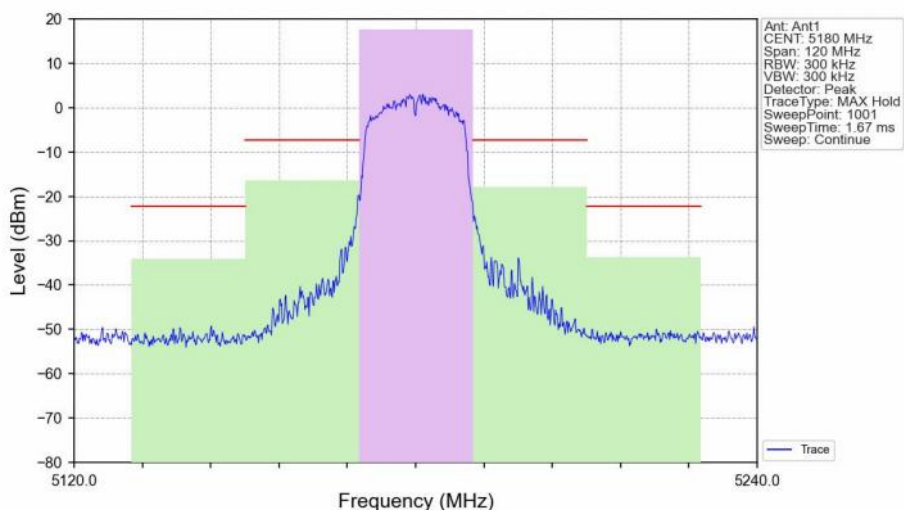


802.11a_HCH_5240MHz_Ant1_NTNV



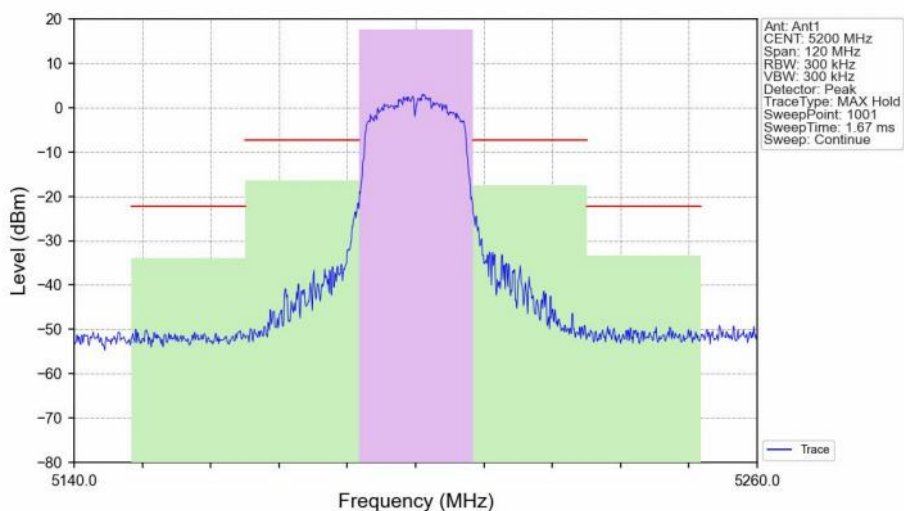
Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-33.80	-51.35	-40	11.35	Pass
Adjacent	-20	20.00	-19.05	-36.60	-25	11.60	Pass
Carrier	/	20.00	17.55	/	/	/	/
Adjacent	20	20.00	-19.52	-37.07	-25	12.07	Pass
Alternate	40	20.00	-33.36	-50.91	-40	10.91	Pass

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



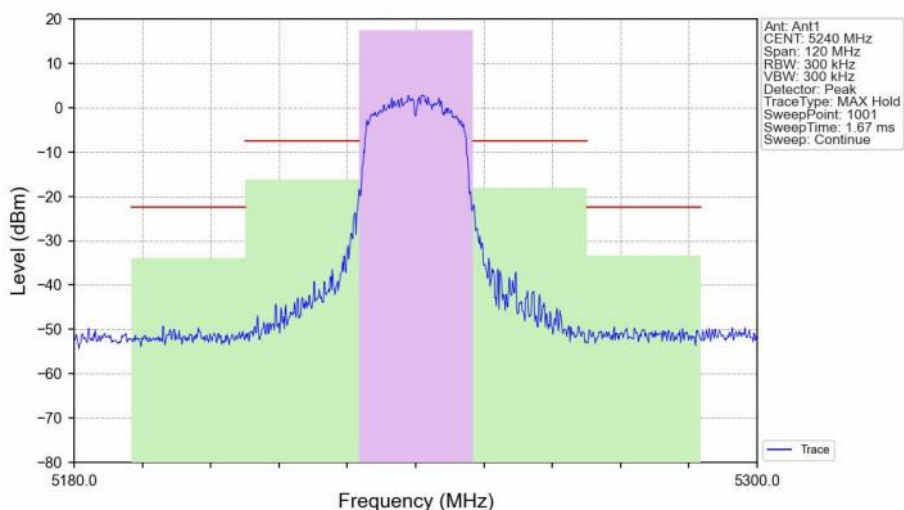
Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-34.13	-51.80	-40	11.80	Pass
Adjacent	-20	20.00	-16.38	-34.05	-25	9.05	Pass
Carrier	/	20.00	17.67	/	/	/	/
Adjacent	20	20.00	-17.96	-35.63	-25	10.63	Pass
Alternate	40	20.00	-33.71	-51.38	-40	11.38	Pass

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-33.97	-51.67	-40	11.67	Pass
Adjacent	-20	20.00	-16.37	-34.07	-25	9.07	Pass
Carrier	/	20.00	17.70	/	/	/	/
Adjacent	20	20.00	-17.59	-35.29	-25	10.29	Pass
Alternate	40	20.00	-33.45	-51.15	-40	11.15	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Alternate	-40	20.00	-33.83	-51.36	-40	11.36	Pass
Adjacent	-20	20.00	-16.22	-33.75	-25	8.75	Pass
Carrier	/	20.00	17.53	/	/	/	/
Adjacent	20	20.00	-18.12	-35.65	-25	10.65	Pass
Alternate	40	20.00	-33.31	-50.84	-40	10.84	Pass

6. Out Of Bands Leakage Power

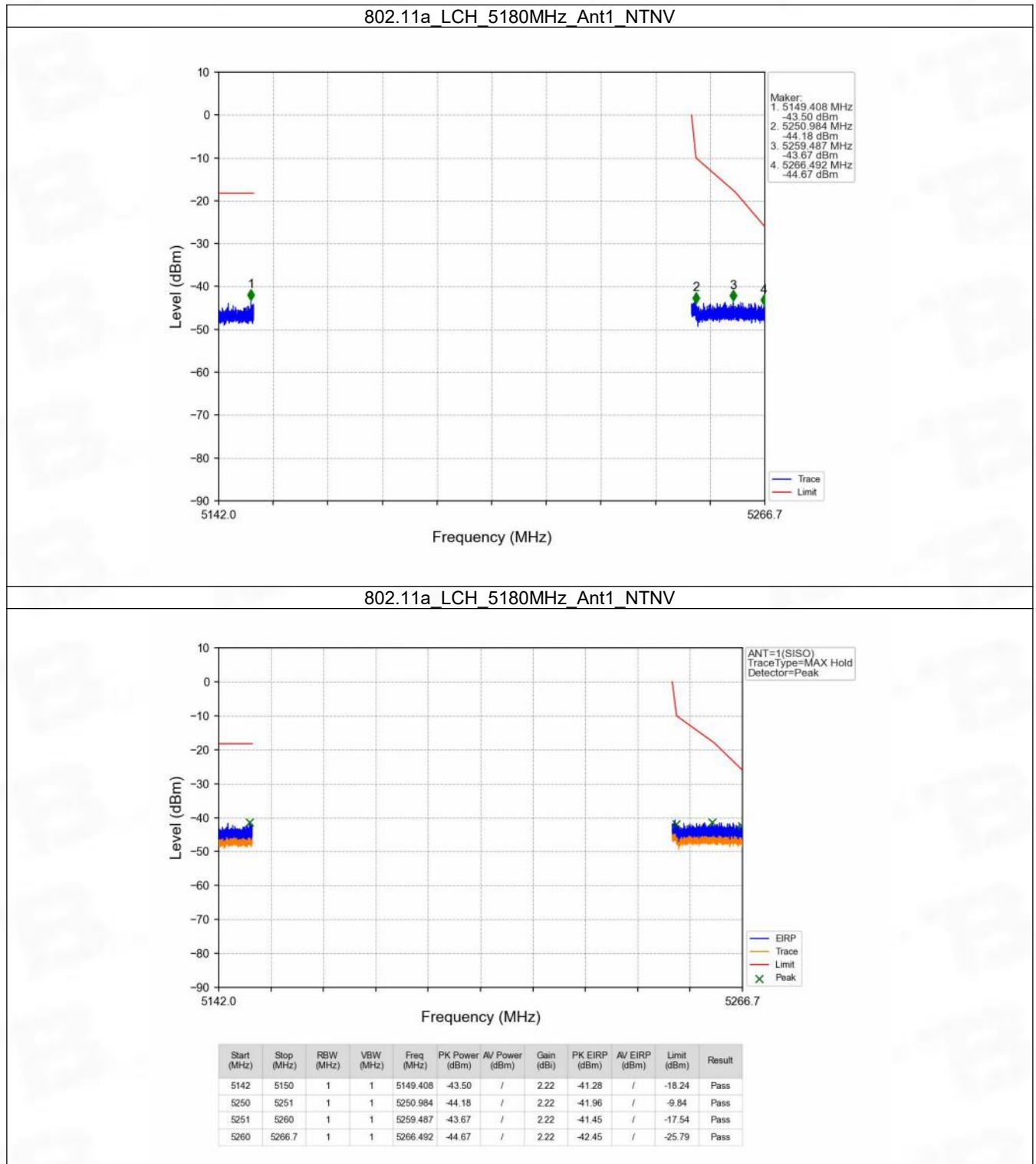
6.1 Test Result

6.1.1 OOB_NTNV_SISO

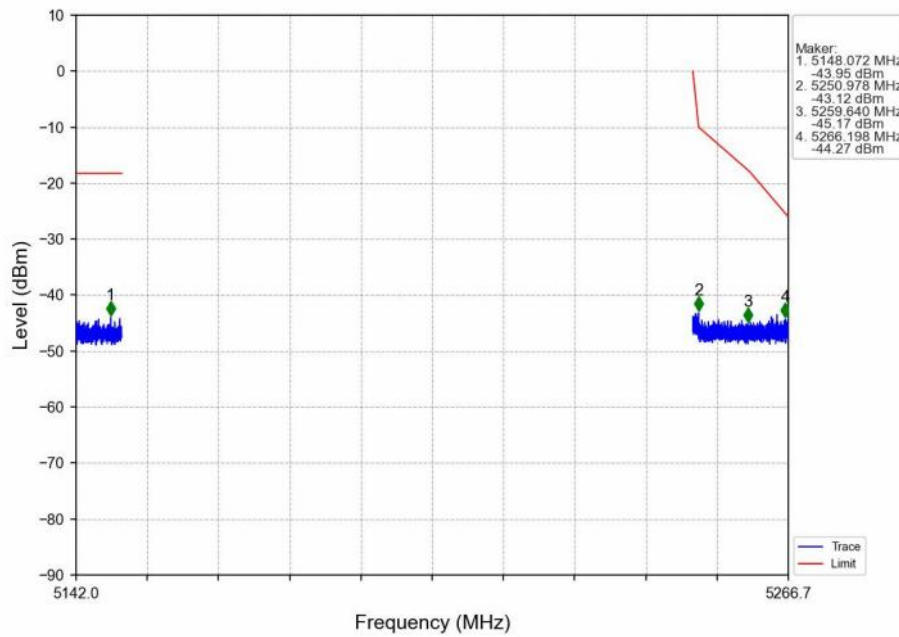
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11a	SISO	5180	1	5142	5150	5149.408	-41.28	0.074	/	/	15	Pass
				5250	5251	5250.984	-41.96	0.064	/	/	103.753	Pass
				5251	5260	5259.487	-41.45	0.072	/	/	17.604	Pass
				5260	5266.7	5266.492	-42.45	0.057	/	/	2.636	Pass
		5200	1	5142	5150	5148.072	-41.73	0.067	/	/	15	Pass
				5250	5251	5250.978	-40.90	0.081	/	/	105.196	Pass
				5251	5260	5259.64	-42.95	0.051	/	/	17.061	Pass
				5260	5266.7	5266.198	-42.05	0.062	/	/	2.859	Pass
		5240	1	5142	5150	5149.136	-41.88	0.065	/	/	15	Pass
				5250	5251	5250.961	-15.56	27.797	/	/	109.396	Pass
				5251	5260	5251.036	-17.90	16.218	/	/	99.266	Pass
				5260	5266.7	5264.094	-32.29	0.590	/	/	5.114	Pass
802.11n (HT20)	SISO	5180	1	5142	5150	5142.552	-41.48	0.071	/	/	15	Pass
				5250	5251	5251	-40.74	0.084	/	/	100	Pass
				5251	5260	5259.586	-42.03	0.063	/	/	17.25	Pass
				5260	5266.7	5266.606	-42.39	0.058	/	/	2.554	Pass
		5200	1	5142	5150	5142.664	-42.37	0.058	/	/	15	Pass
				5250	5251	5250.972	-41.53	0.070	/	/	106.66	Pass
				5251	5260	5259.1	-41.88	0.065	/	/	19.055	Pass
				5260	5266.7	5266.412	-42.99	0.050	/	/	2.695	Pass
		5240	1	5142	5150	5145.224	-41.52	0.070	/	/	15	Pass
				5250	5251	5250.988	-13.80	41.687	/	/	102.802	Pass
				5251	5260	5251	-14.73	33.651	/	/	100	Pass
				5260	5266.7	5262.626	-31.11	0.774	/	/	7.671	Pass

6.2 Test Graph

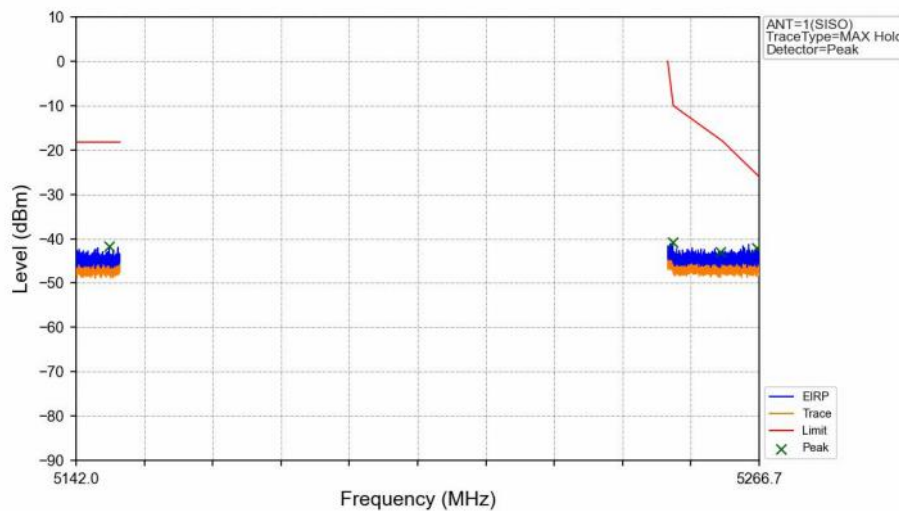
6.2.1 OOB_NTNV_SISO



802.11a_MCH_5200MHz_Ant1_NTNV

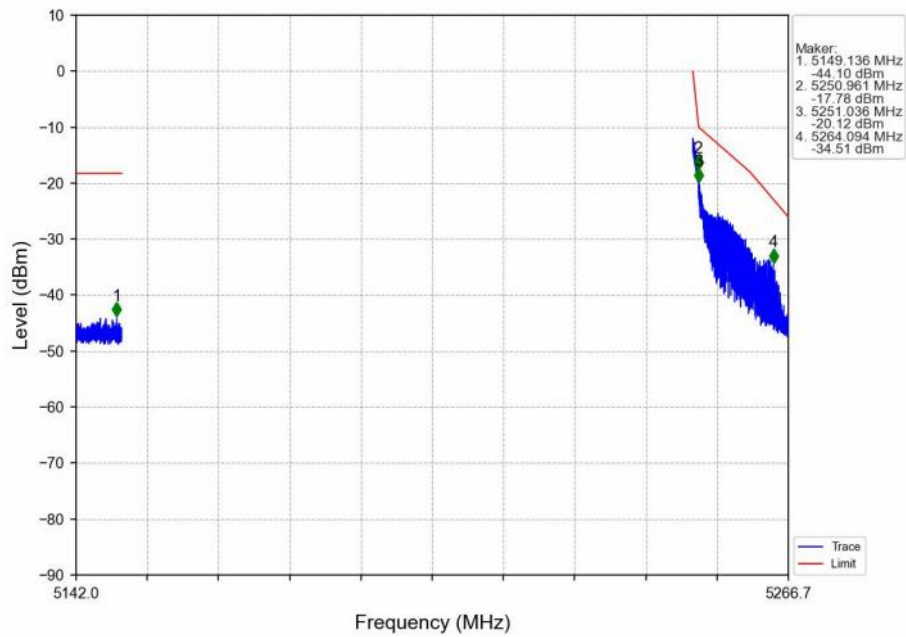


802.11a_MCH_5200MHz_Ant1_NTNV

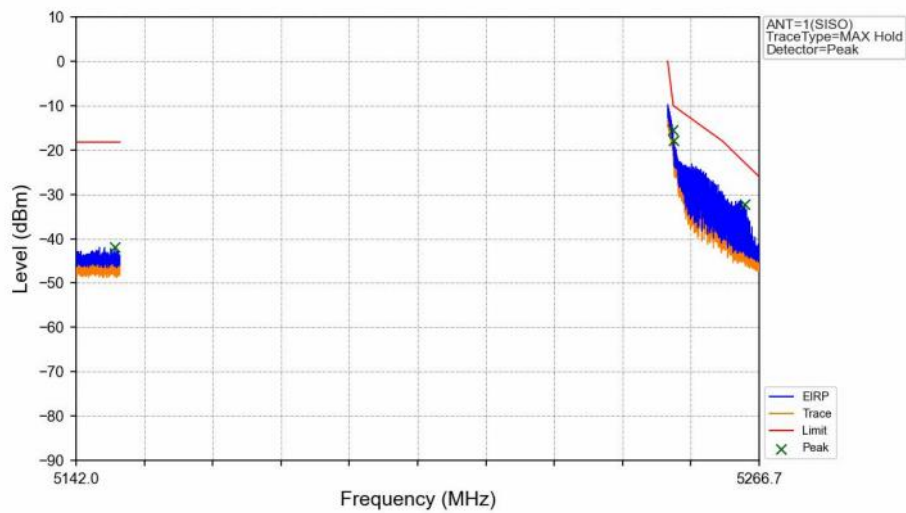


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5148.072	-43.95	/	2.22	-41.73	/	-18.24	Pass
5250	5251	1	1	5250.978	-43.12	/	2.22	-40.90	/	-9.78	Pass
5251	5260	1	1	5259.640	-45.17	/	2.22	-42.95	/	-17.68	Pass
5260	5266.7	1	1	5266.198	-44.27	/	2.22	-42.05	/	-25.44	Pass

802.11a_HCH_5240MHz_Ant1_NTNV

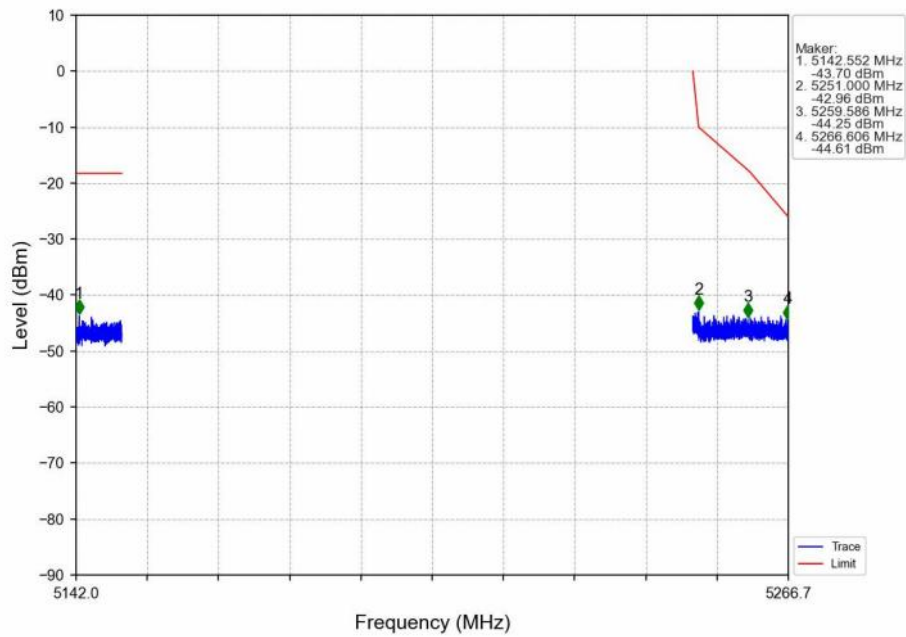


802.11a_HCH_5240MHz_Ant1_NTNV

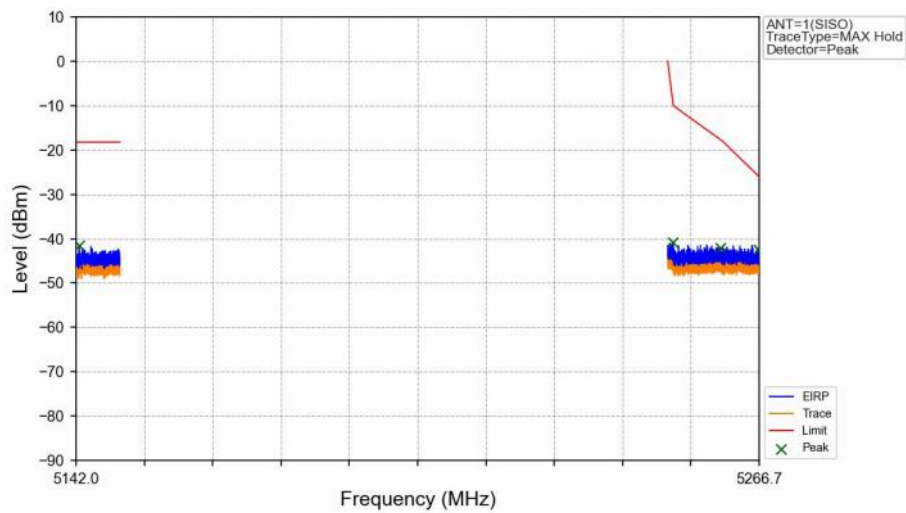


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5149.136	-44.10	/	2.22	-41.88	/	-18.24	Pass
5250	5251	1	1	5250.961	-17.78	/	2.22	-15.56	/	-9.61	Pass
5251	5260	1	1	5251.036	-20.12	/	2.22	-17.90	/	-10.03	Pass
5260	5266.7	1	1	5264.094	-34.51	/	2.22	-32.29	/	-22.91	Pass

802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

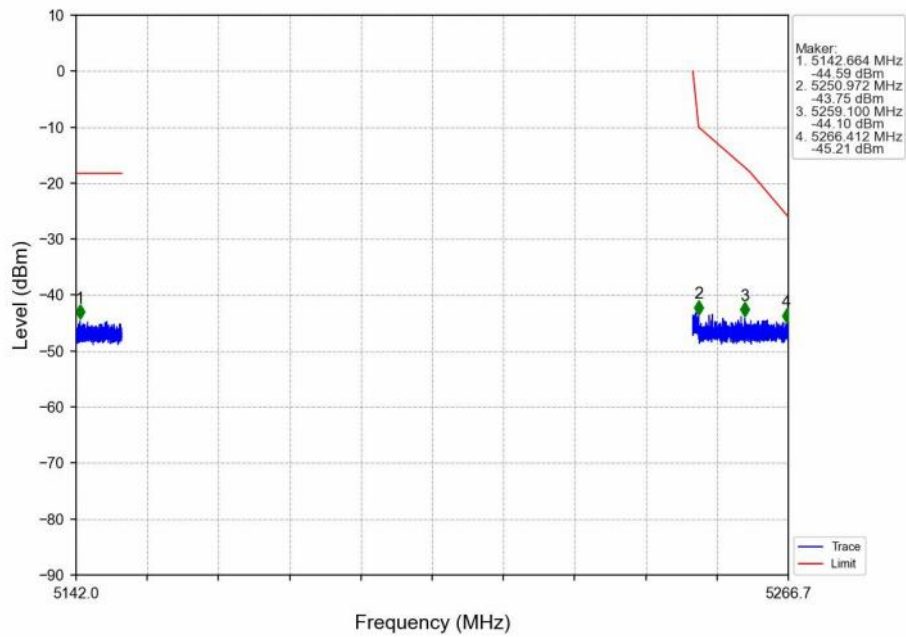


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

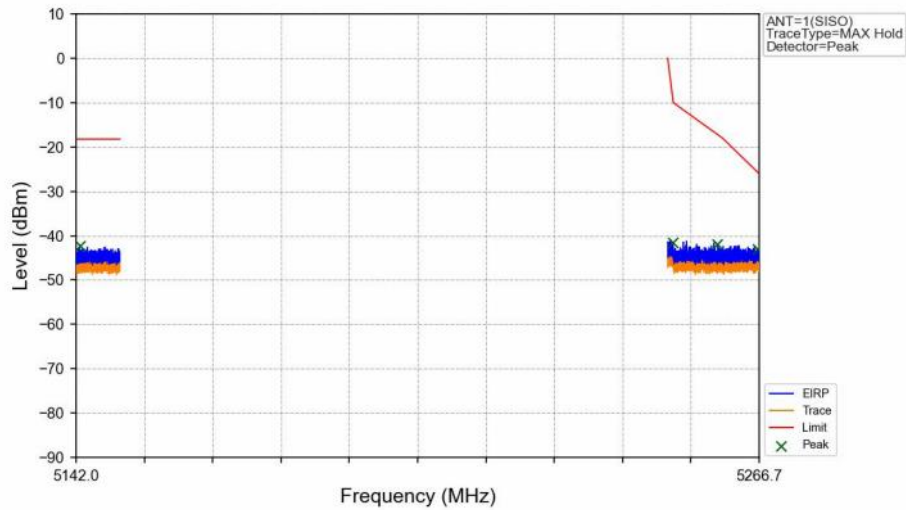


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dBi)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5142.552	-43.70	/	2.22	-41.48	/	-18.24	Pass
5250	5251	1	1	5251.000	-42.96	/	2.22	-40.74	/	-10	Pass
5251	5260	1	1	5259.586	-44.25	/	2.22	-42.03	/	-17.63	Pass
5260	5266.7	1	1	5266.606	-44.61	/	2.22	-42.39	/	-25.93	Pass

802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

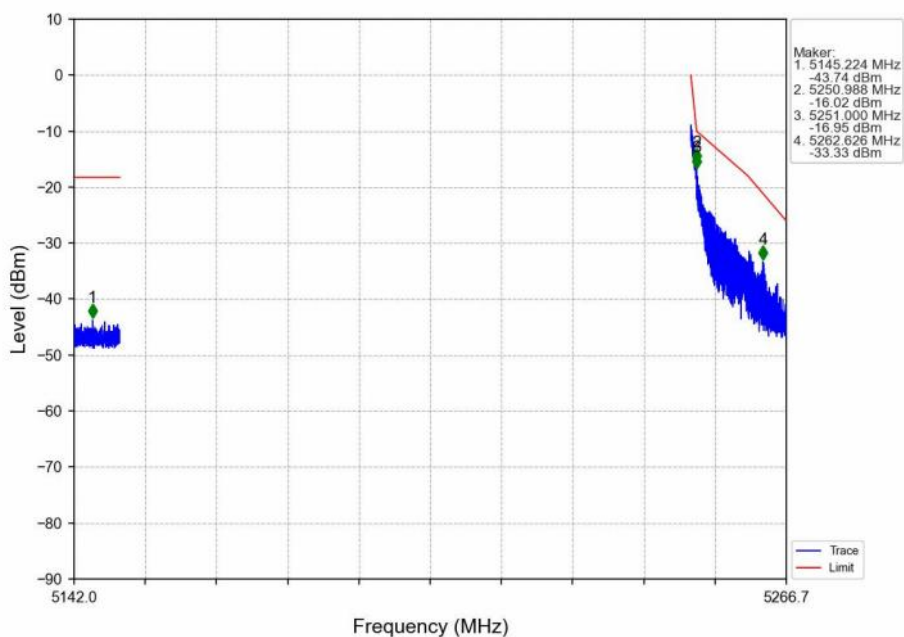


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

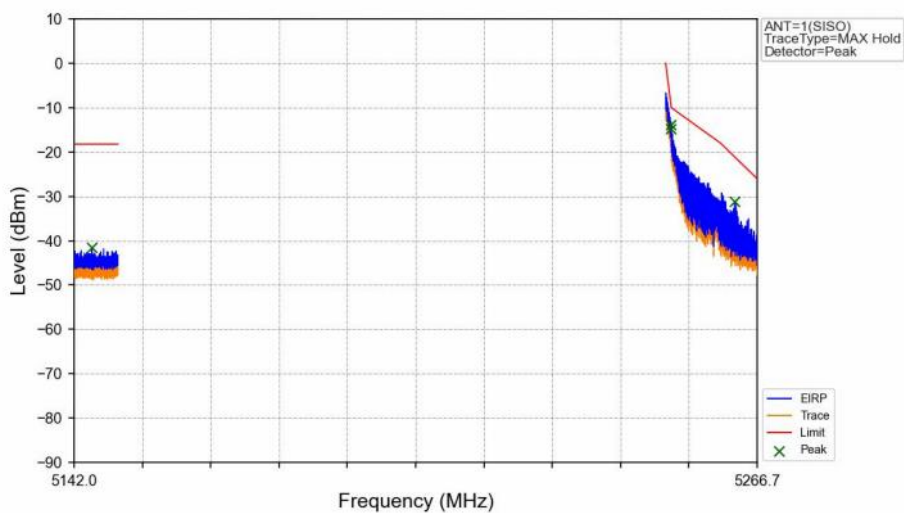


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5142.664	-44.59	/	2.22	-42.37	/	-18.24	Pass
5250	5251	1	1	5250.972	-43.75	/	2.22	-41.53	/	-9.72	Pass
5251	5260	1	1	5259.100	-44.10	/	2.22	-41.88	/	-17.2	Pass
5260	5266.7	1	1	5266.412	-45.21	/	2.22	-42.99	/	-25.69	Pass

802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
5142	5150	1	1	5145.224	-43.74	/	2.22	-41.52	/	-18.24	Pass
5250	5251	1	1	5250.988	-16.02	/	2.22	-13.80	/	-9.88	Pass
5251	5260	1	1	5251.000	-16.95	/	2.22	-14.73	/	-10	Pass
5260	5266.7	1	1	5262.626	-33.33	/	2.22	-31.11	/	-21.15	Pass

7. Transmission Burst Length

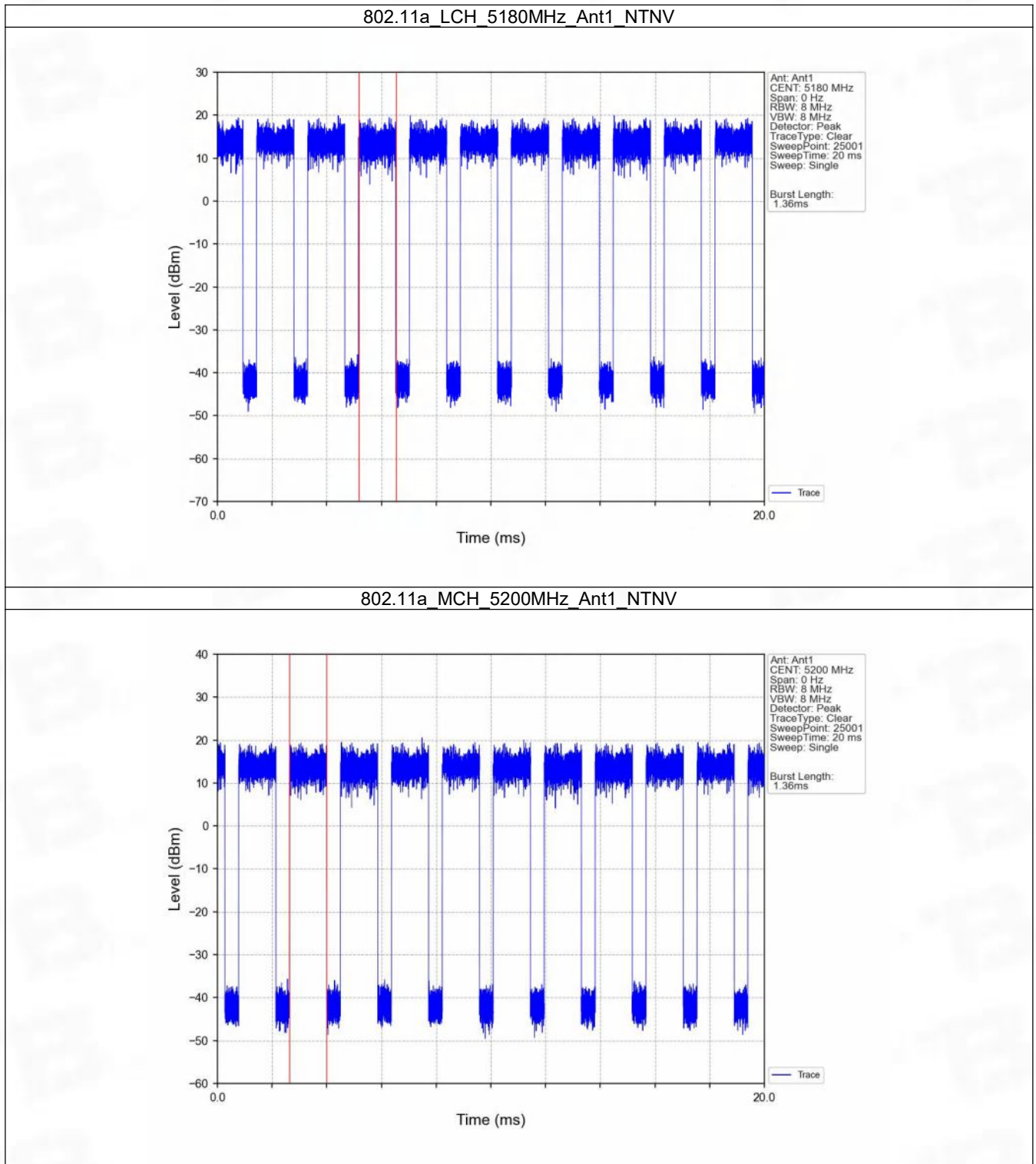
7.1 Test Result

7.1.1 Ant1_NTNV

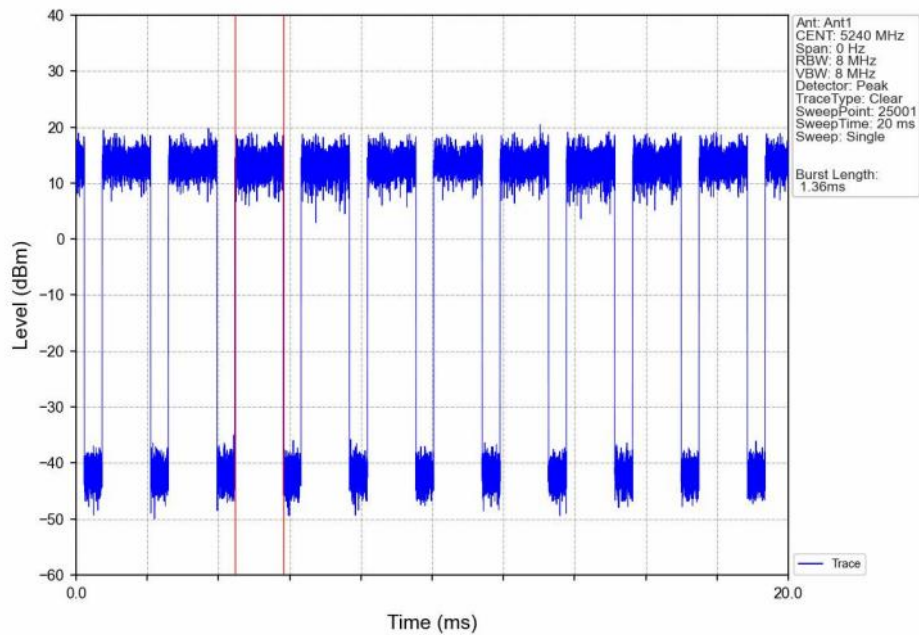
Ant1_NTNV					
Mode	TX Type	Frequency (MHz)	Burst Length (ms)		Verdict
			Result	Limit	
802.11a	SISO	5180	1.362	<=8	Pass
		5200	1.362	<=8	Pass
		5240	1.362	<=8	Pass
802.11n (HT20)	SISO	5180	1.274	<=8	Pass
		5200	1.274	<=8	Pass
		5240	1.274	<=8	Pass

7.2 Test Graph

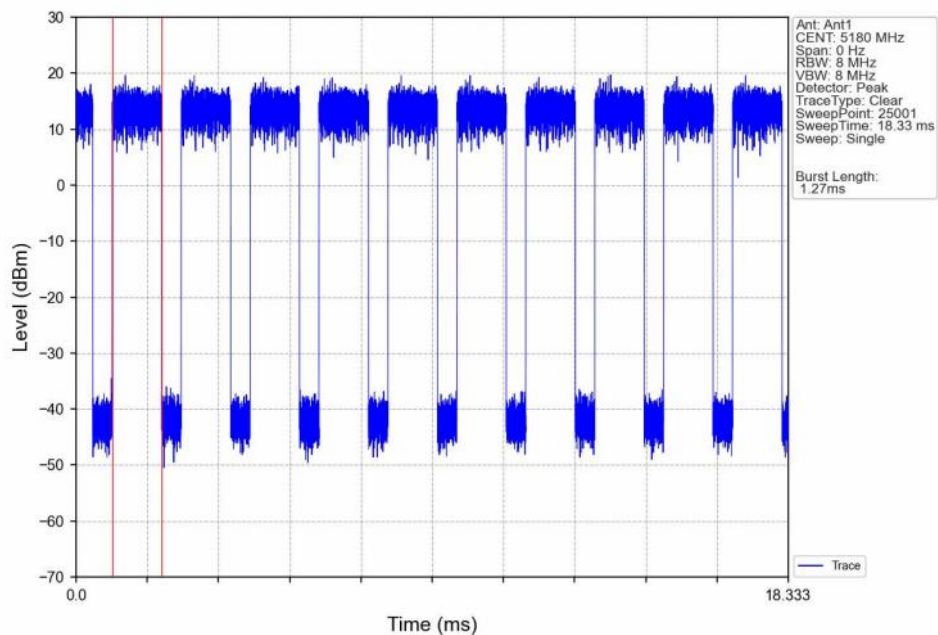
7.2.1 Ant1_NTNV



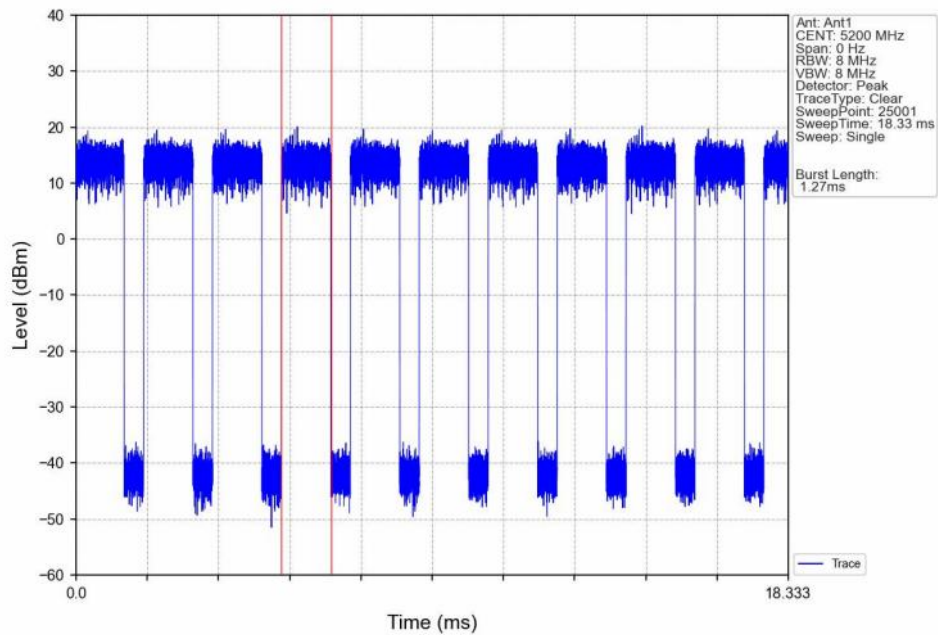
802.11a_HCH_5240MHz_Ant1_NTNV



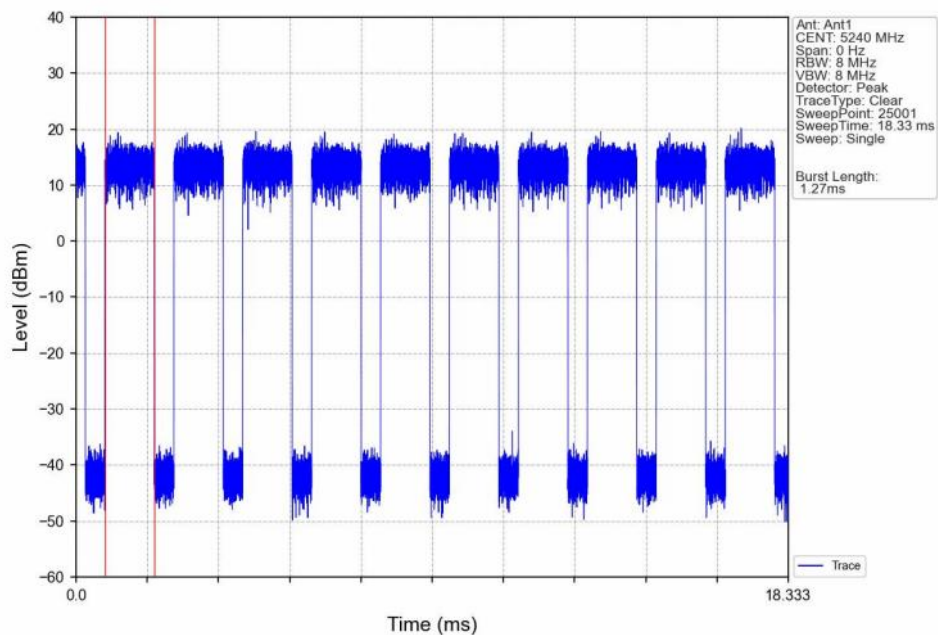
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



8. Spurious Emission Intensity

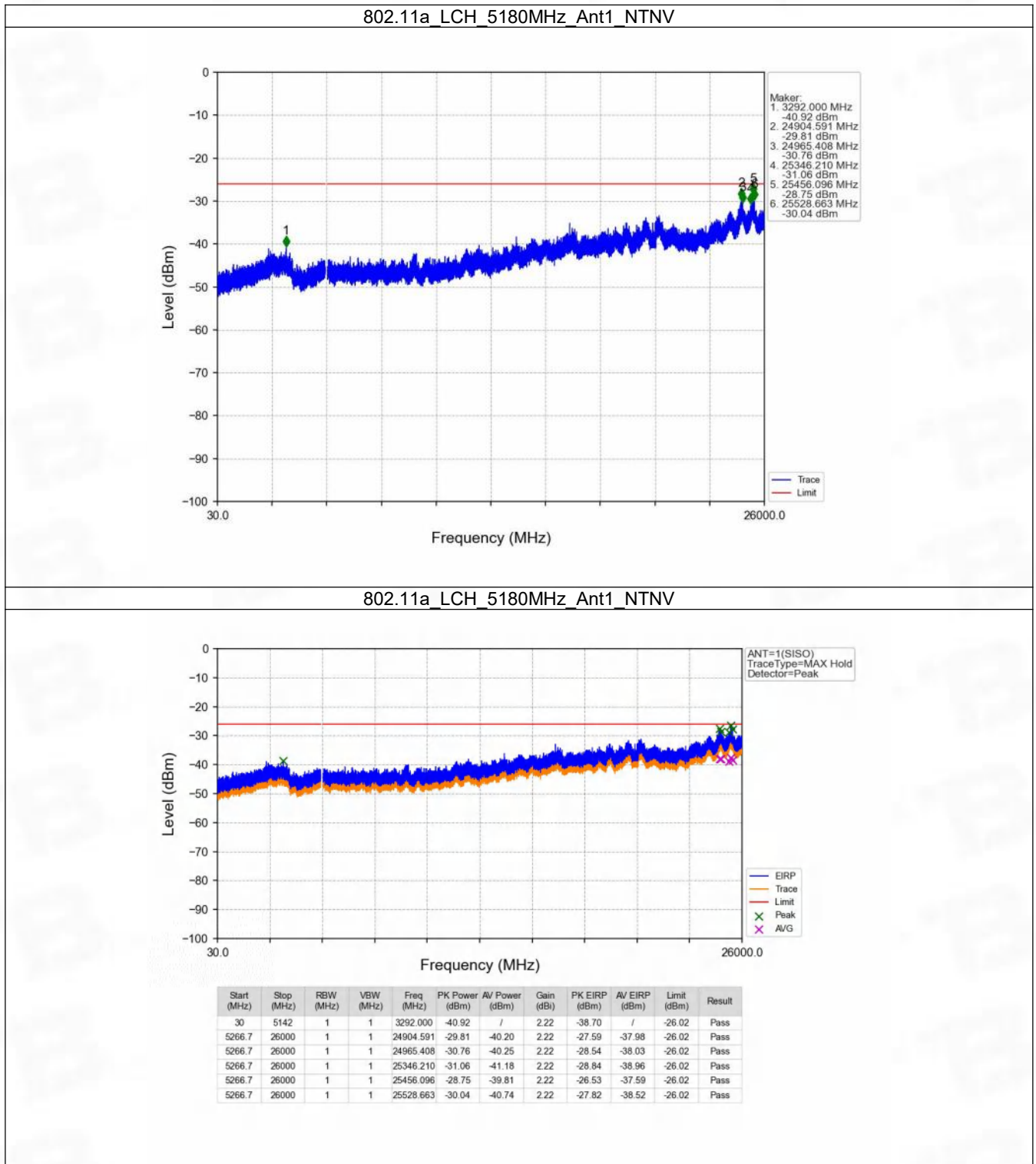
8.1 Test Result

8.1.1 TxSe_NTNV_SISO

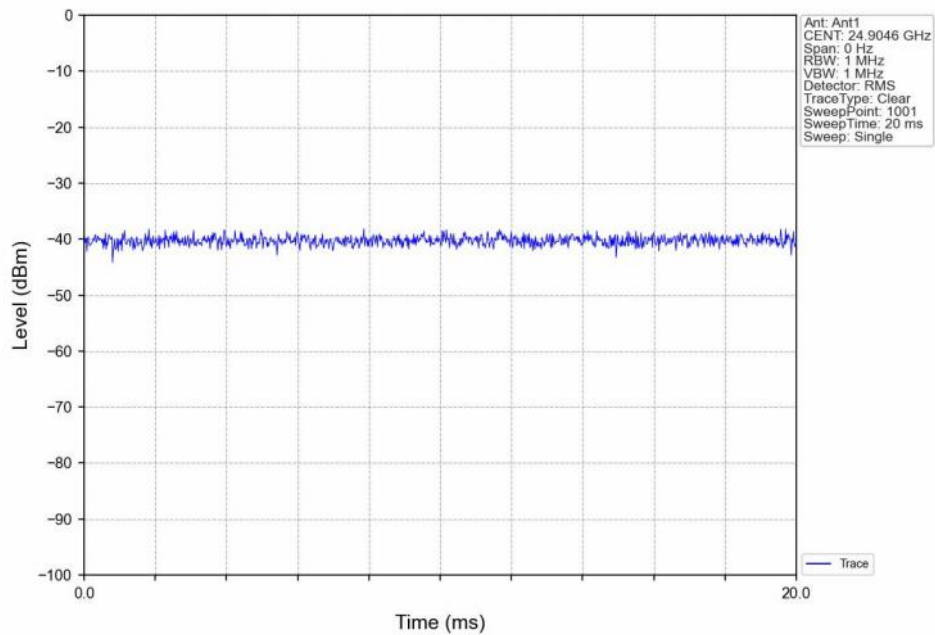
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK EIRP (dBm /MHz)	PK EIRP (uW /MHz)	AV EIRP (dBm /MHz)	AV EIRP (uW /MHz)		
802.11a	SISO	5180	1	30	5142	3292	-38.70	0.135	/	/	2.5	Pass
				5266.7	26000	24904.591	-27.59	1.742	-37.98	0.159	2.5	Pass
						24965.408	-28.54	1.400	-38.03	0.157	2.5	Pass
						25346.21	-28.84	1.306	-38.96	0.127	2.5	Pass
						25456.096	-26.53	2.223	-37.59	0.174	2.5	Pass
						25528.663	-27.82	1.652	-38.52	0.141	2.5	Pass
		5200	1	30	5142	3291	-38.43	0.144	/	/	2.5	Pass
				5266.7	26000	24954.351	-27.73	1.687	-37.89	0.163	2.5	Pass
						25458.861	-27.84	1.644	-37.58	0.175	2.5	Pass
						25548.705	-28.08	1.556	-38.89	0.129	2.5	Pass
						25933.653	-28.55	1.396	-39.64	0.109	2.5	Pass
		5240	1	30	5142	2462	-39.09	0.123	/	/	2.5	Pass
				5266.7	26000	24964.717	-26.42	2.280	-38.04	0.157	2.5	Pass
						25045.577	-28.65	1.365	-39.47	0.113	2.5	Pass
						25376.619	-28.78	1.324	-38.40	0.145	2.5	Pass
						25463.008	-28.25	1.496	-37.60	0.174	2.5	Pass
25523.825	-27.38					1.828	-38.41	0.144	2.5	Pass		
802.11n (HT20)	SISO	5180	1	30	5142	3310.5	-37.94	0.161	/	/	2.5	Pass
				5266.7	26000	24832.715	-28.75	1.334	-39.01	0.126	2.5	Pass
						24902.517	-28.80	1.318	-37.90	0.162	2.5	Pass
						25377.31	-28.19	1.517	-38.42	0.144	2.5	Pass
						25505.165	-28.28	1.486	-38.19	0.152	2.5	Pass
		5200	1	30	5142	2498.5	-39.00	0.126	/	/	2.5	Pass
				5266.7	26000	24937.764	-28.04	1.570	-37.67	0.171	2.5	Pass
						25002.728	-28.82	1.312	-38.62	0.137	2.5	Pass
						25409.792	-28.70	1.349	-37.82	0.165	2.5	Pass
		5240	1	30	5142	3284.5	-39.15	0.122	/	/	2.5	Pass
				5266.7	26000	24434.636	-28.68	1.355	-39.78	0.105	2.5	Pass
						24854.831	-28.22	1.507	-38.48	0.142	2.5	Pass
						24916.34	-27.81	1.656	-37.77	0.167	2.5	Pass
						24990.288	-28.39	1.449	-38.38	0.145	2.5	Pass
						25460.934	-28.43	1.435	-37.56	0.175	2.5	Pass

8.2 Test Graph

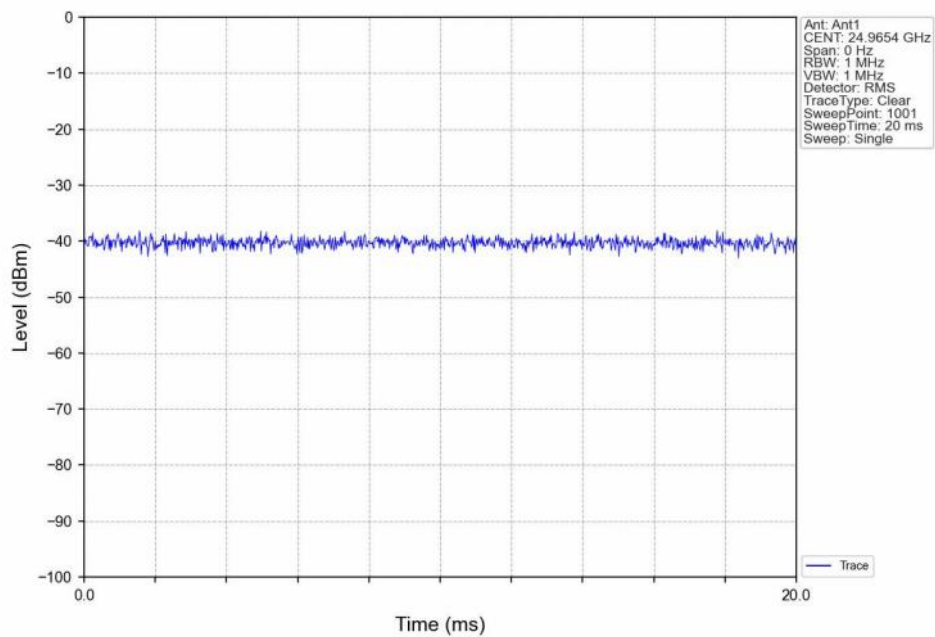
8.2.1 TxSe_NTNV_SISO



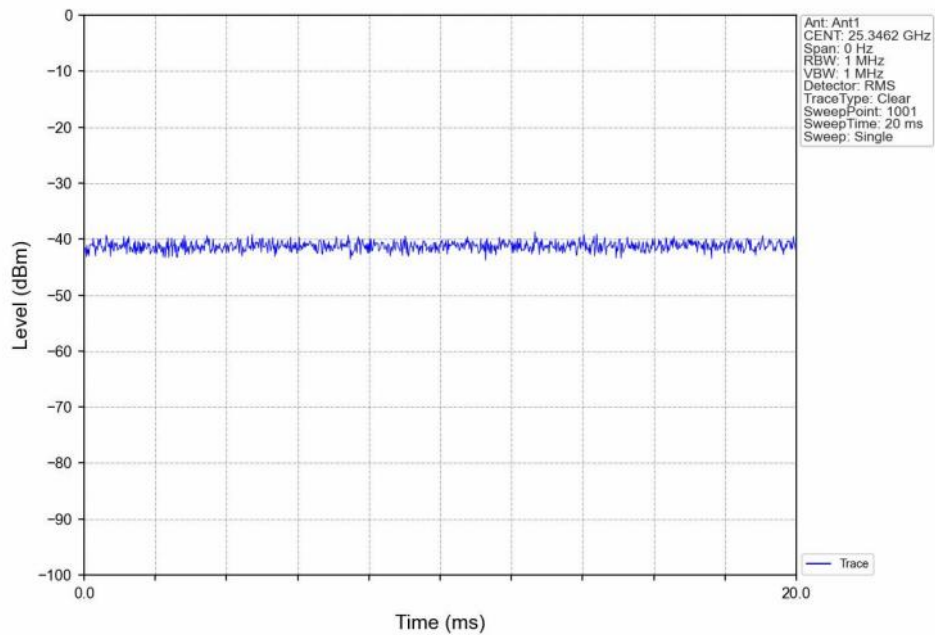
802.11a_LCH_5180MHz_Ant1_NTNV



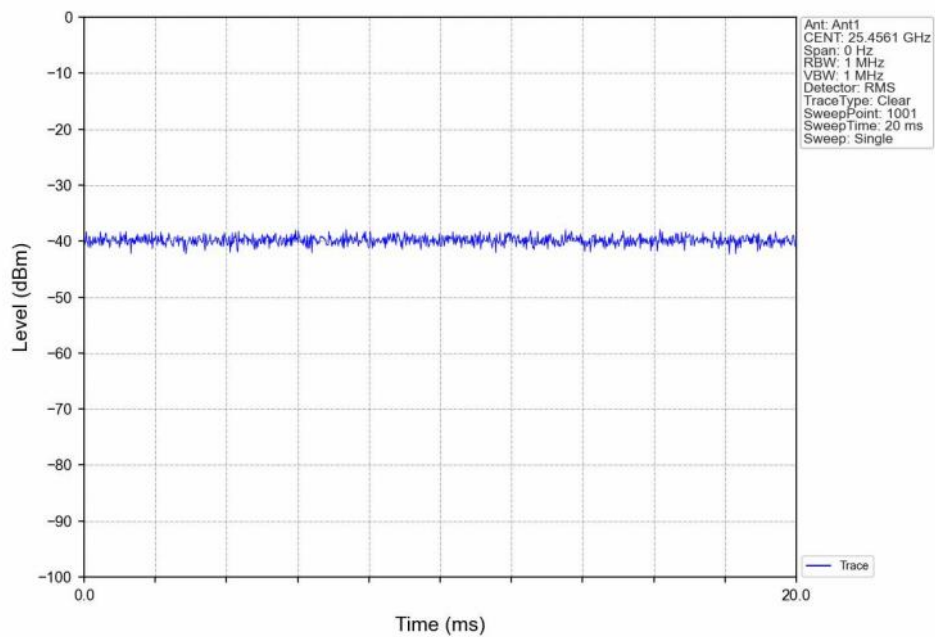
802.11a_LCH_5180MHz_Ant1_NTNV



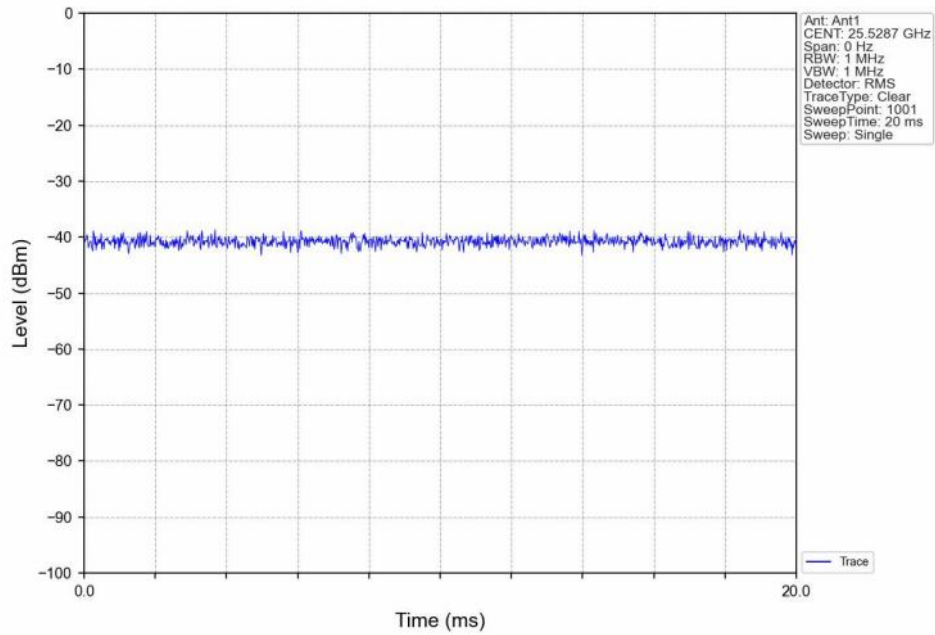
802.11a_LCH_5180MHz_Ant1_NTNV



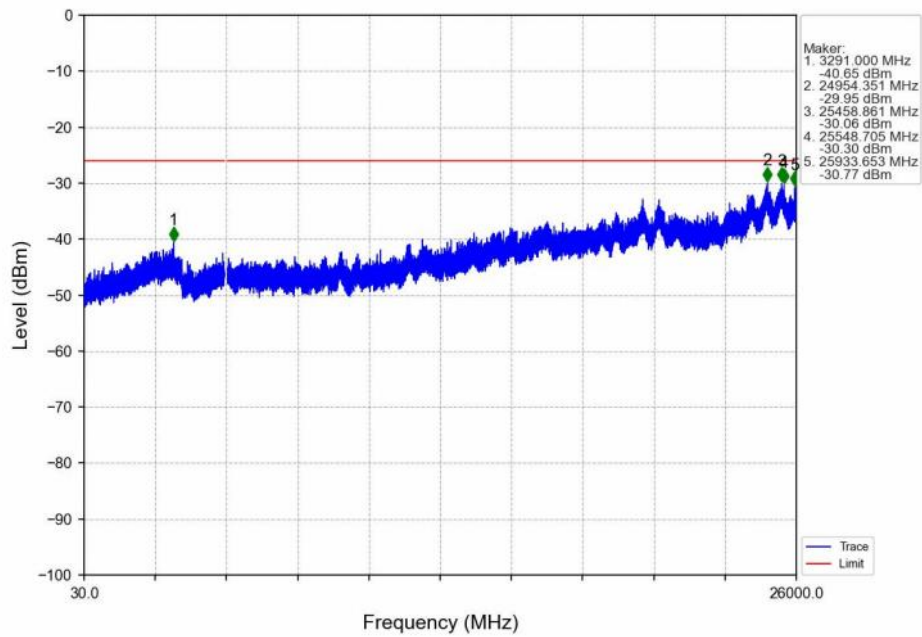
802.11a_LCH_5180MHz_Ant1_NTNV



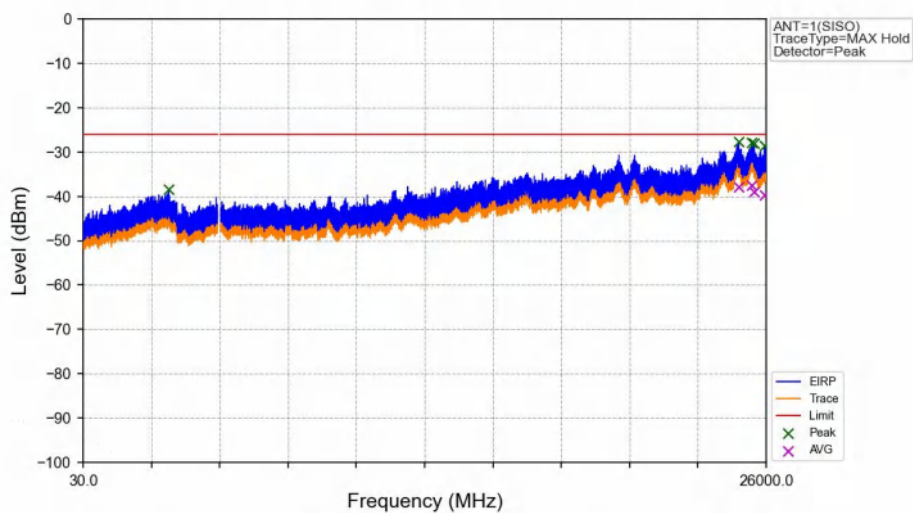
802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

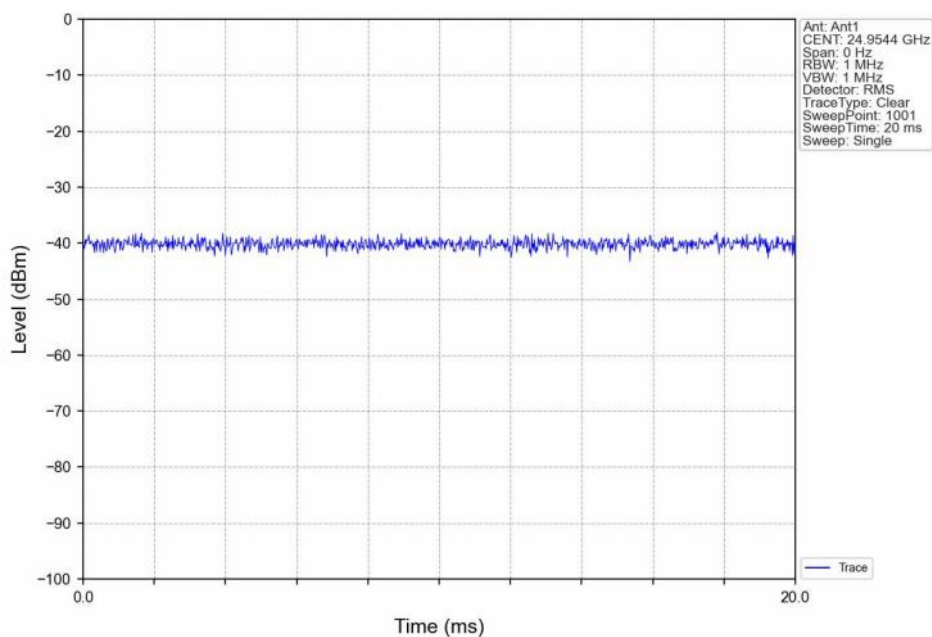


802.11a_MCH_5200MHz_Ant1_NTNV

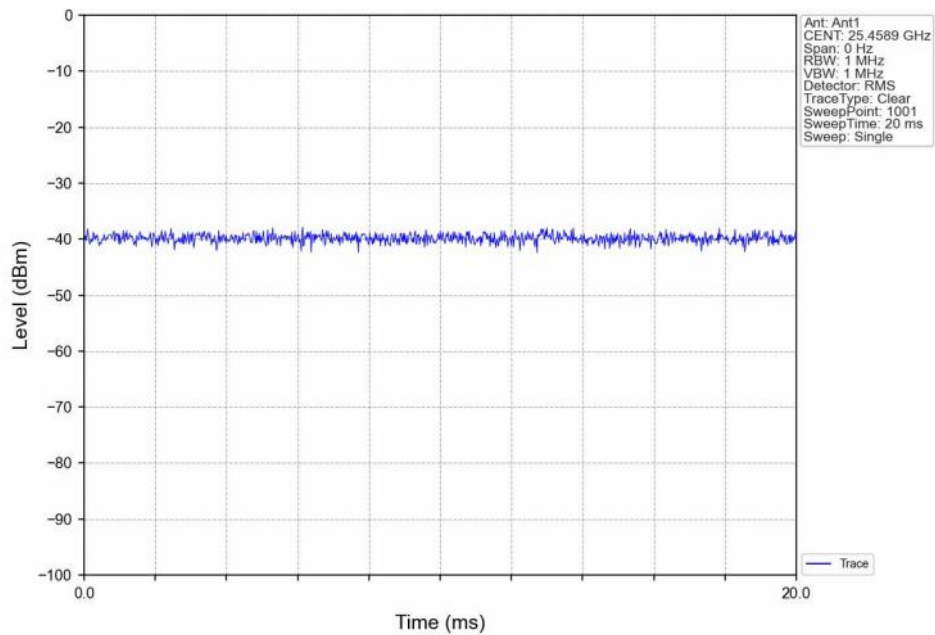


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	A/V Power (dBm)	Gain (dB)	PK EIRP (dBm)	A/V EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3291.000	-40.65	/	2.22	-38.43	/	-26.02	Pass
5266.7	26000	1	1	24954.351	-29.95	-40.11	2.22	-27.73	-37.89	-26.02	Pass
5266.7	26000	1	1	25458.861	-30.06	-39.80	2.22	-27.84	-37.58	-26.02	Pass
5266.7	26000	1	1	25548.705	-30.30	-41.11	2.22	-28.08	-38.89	-26.02	Pass
5266.7	26000	1	1	25933.653	-30.77	-41.86	2.22	-28.55	-39.64	-26.02	Pass

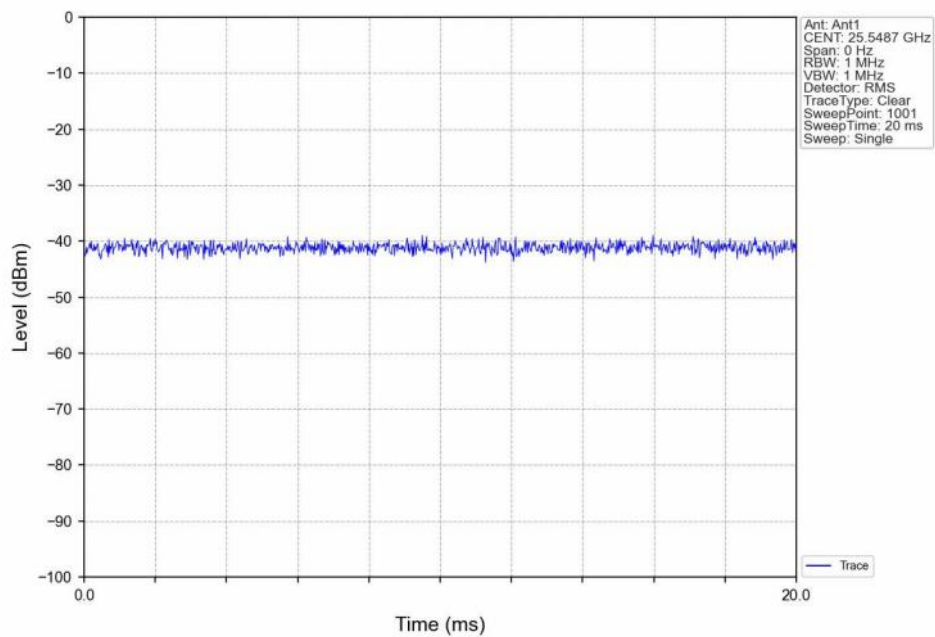
802.11a_MCH_5200MHz_Ant1_NTNV



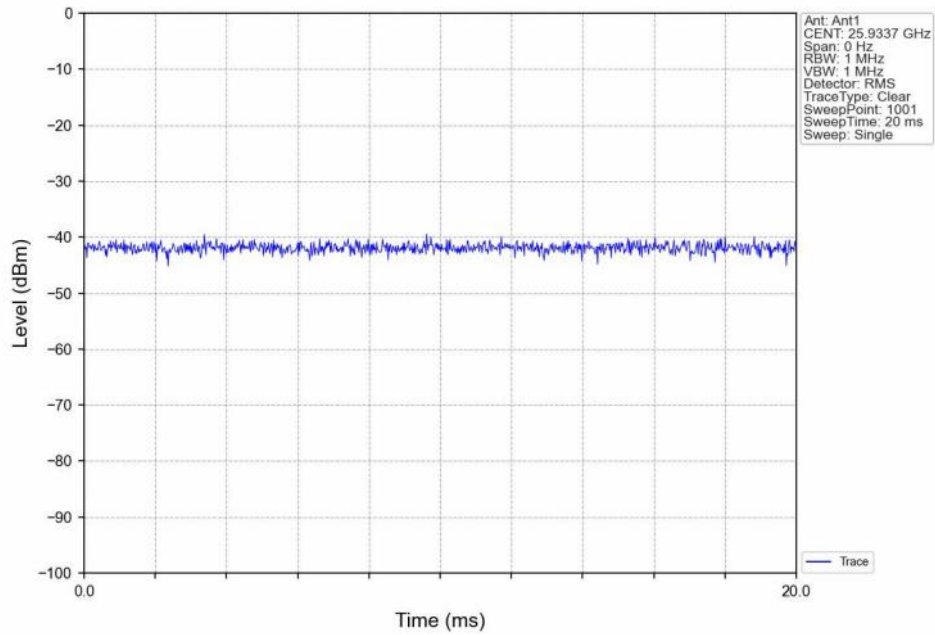
802.11a_MCH_5200MHz_Ant1_NTNV



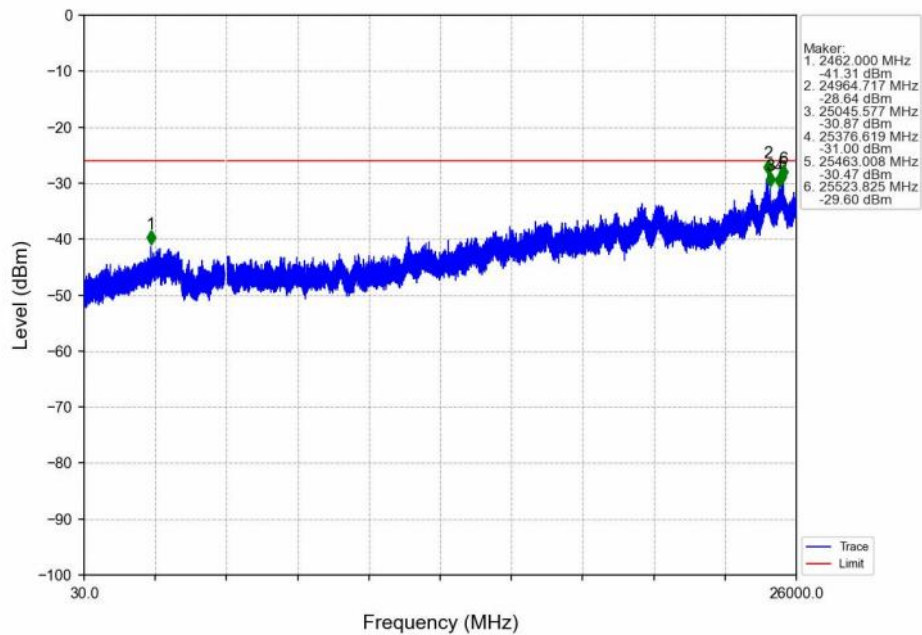
802.11a_MCH_5200MHz_Ant1_NTNV



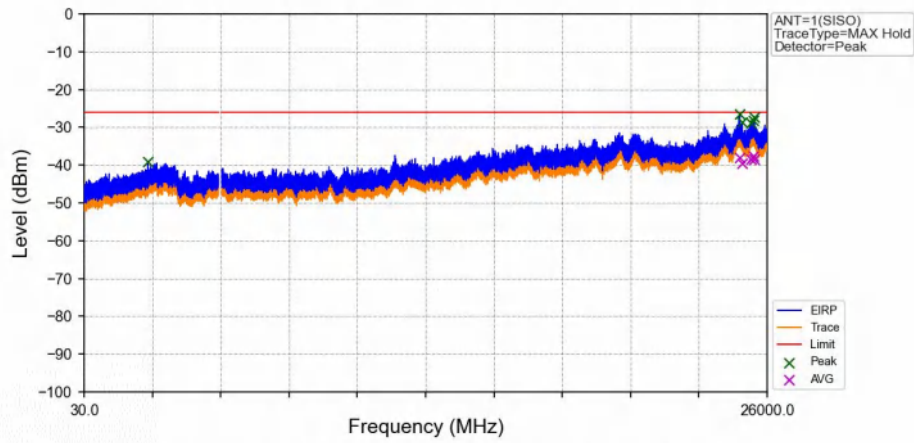
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV

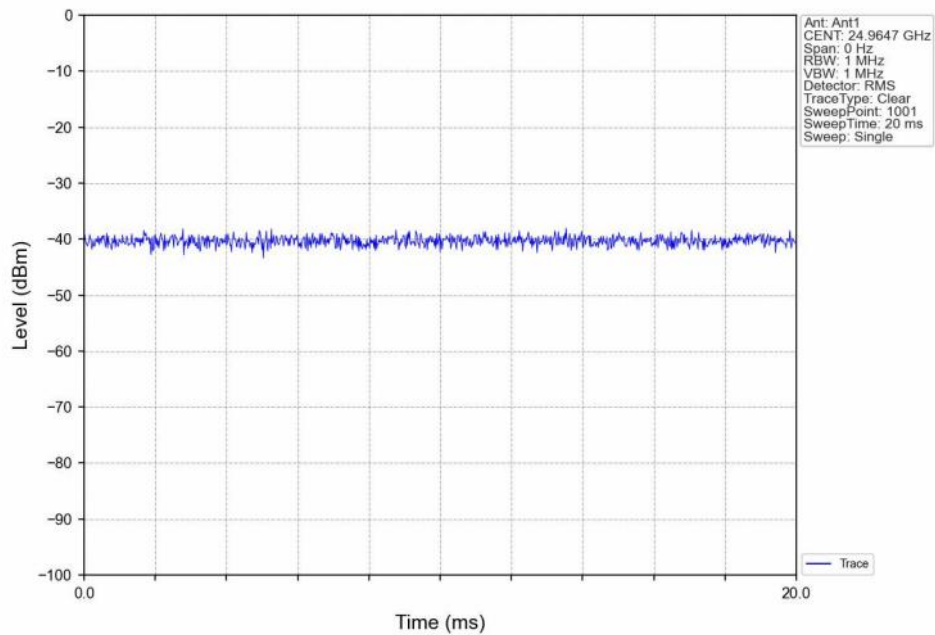


802.11a_HCH_5240MHz_Ant1_NTNV

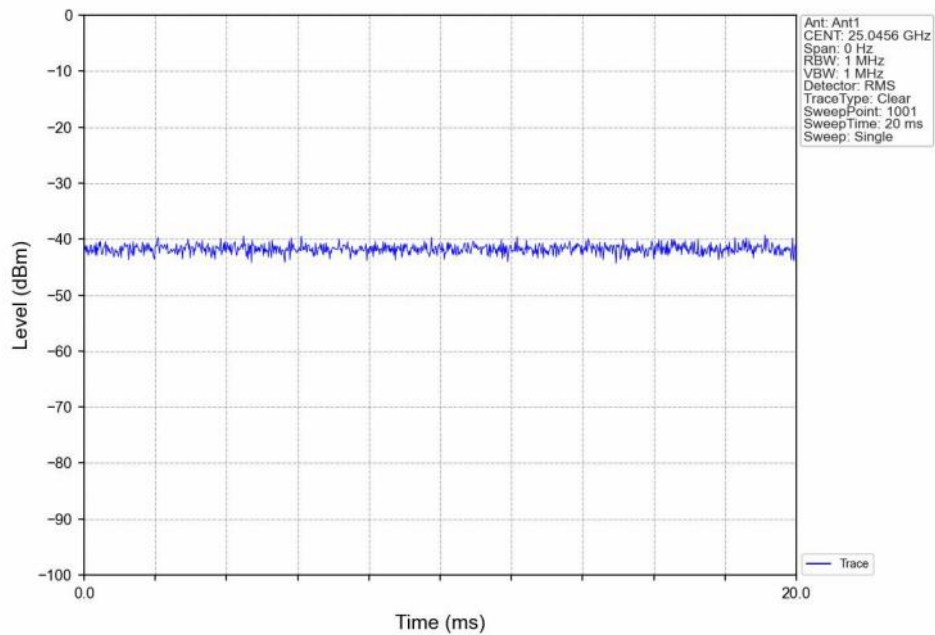


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	A/V Power (dBm)	Gain (dB)	PK EIRP (dBm)	A/V EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	2462.000	-41.31	/	2.22	-39.09	/	-26.02	Pass
5266.7	26000	1	1	24964.717	-28.64	-40.26	2.22	-26.42	-38.04	-26.02	Pass
5266.7	26000	1	1	25045.577	-30.87	-41.69	2.22	-28.65	-39.47	-26.02	Pass
5266.7	26000	1	1	25376.619	-31.00	-40.62	2.22	-28.78	-38.40	-26.02	Pass
5266.7	26000	1	1	25463.008	-30.47	-39.82	2.22	-28.25	-37.60	-26.02	Pass
5266.7	26000	1	1	25523.825	-29.60	-40.63	2.22	-27.38	-38.41	-26.02	Pass

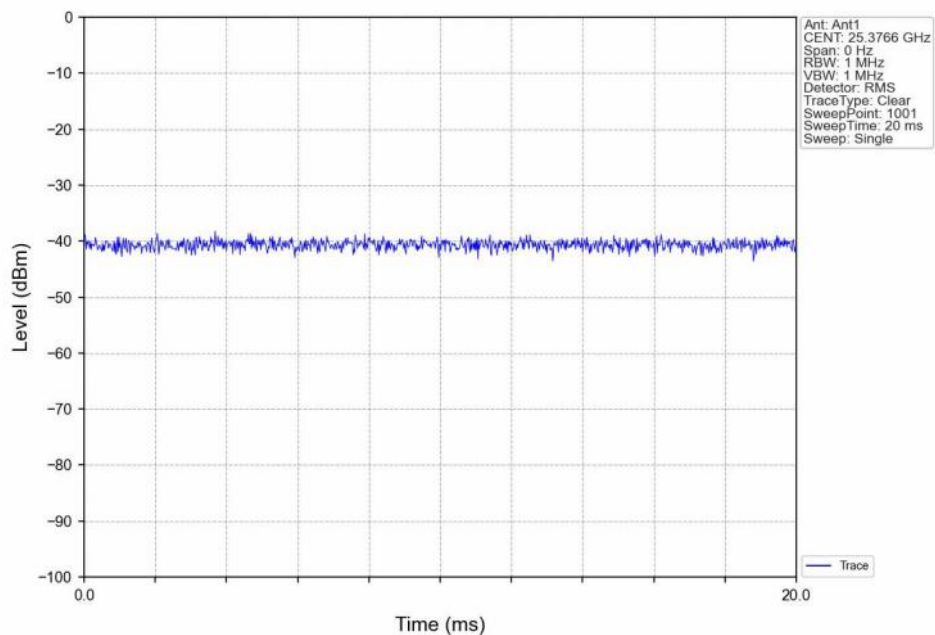
802.11a_HCH_5240MHz_Ant1_NTNV



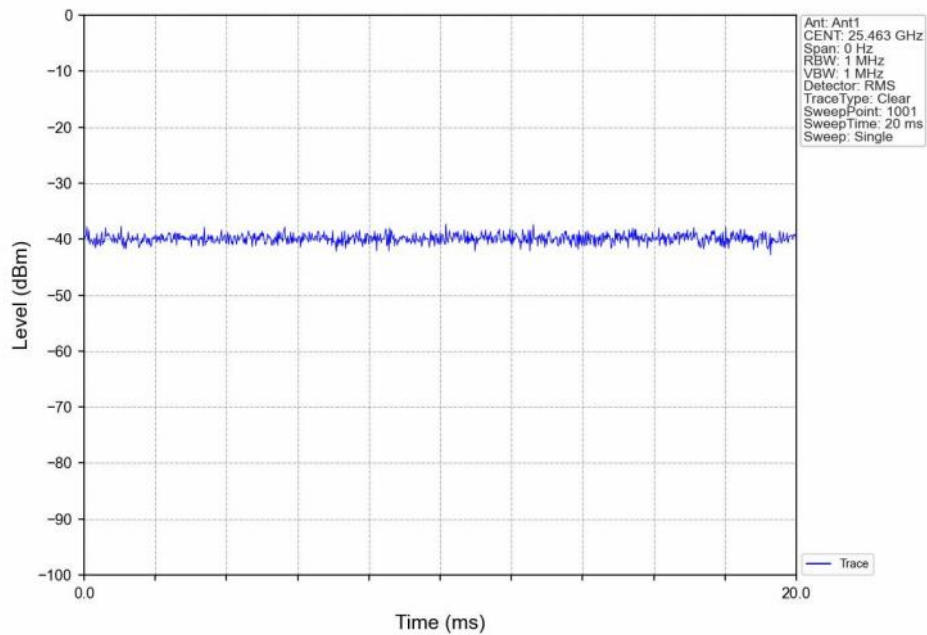
802.11a_HCH_5240MHz_Ant1_NTNV



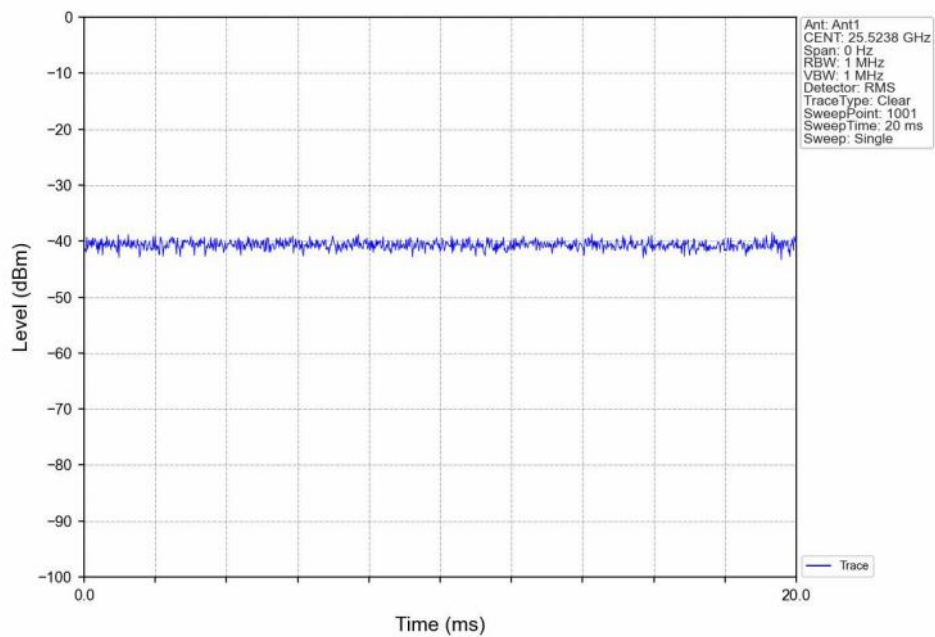
802.11a_HCH_5240MHz_Ant1_NTNV



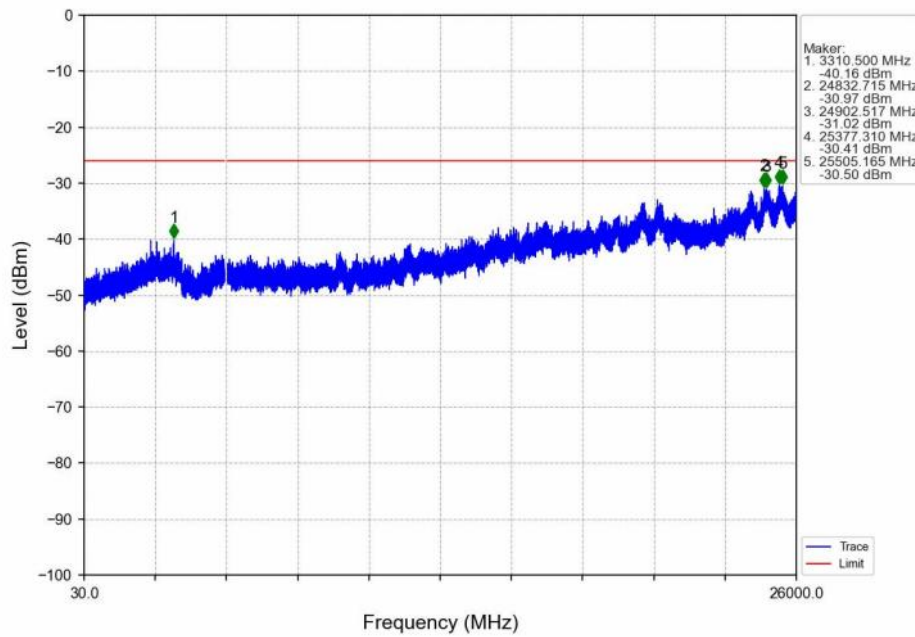
802.11a_HCH_5240MHz_Ant1_NTNV



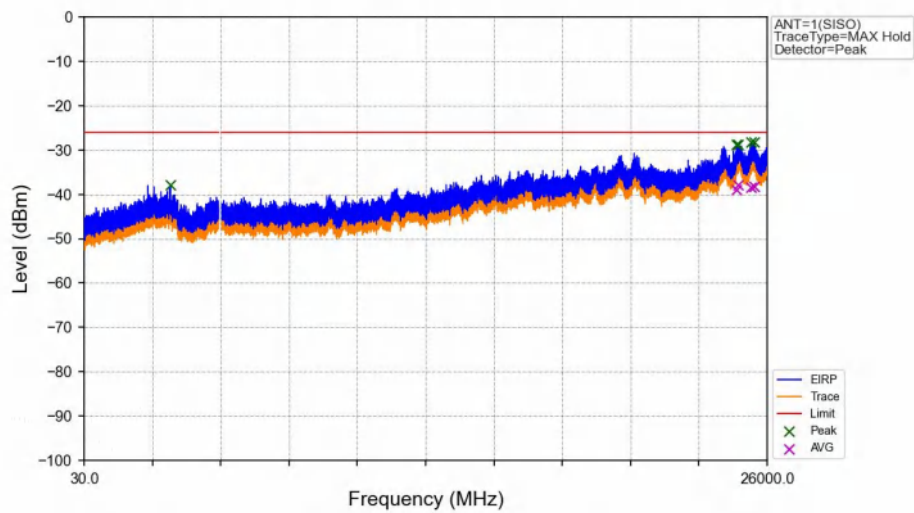
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

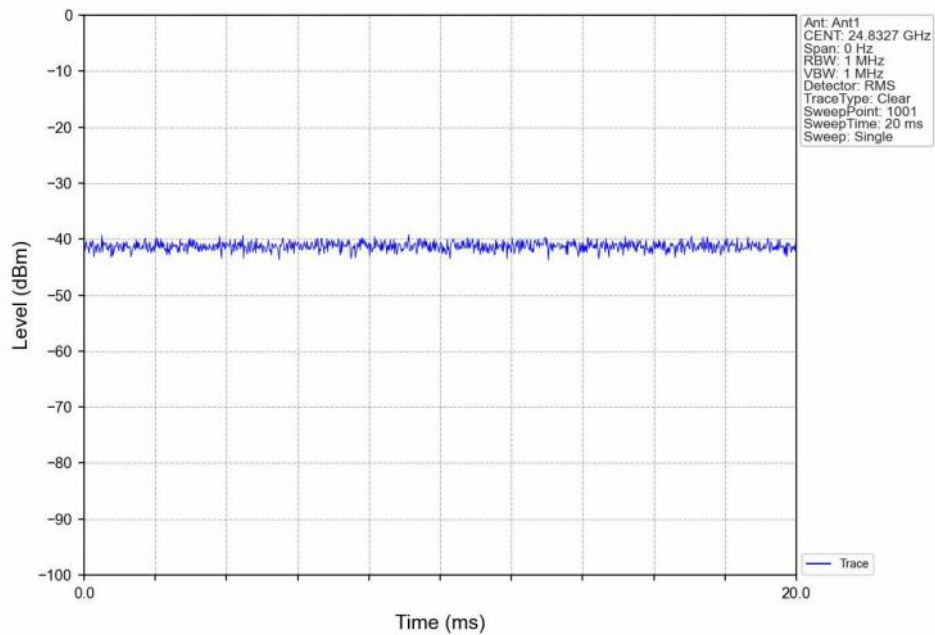


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

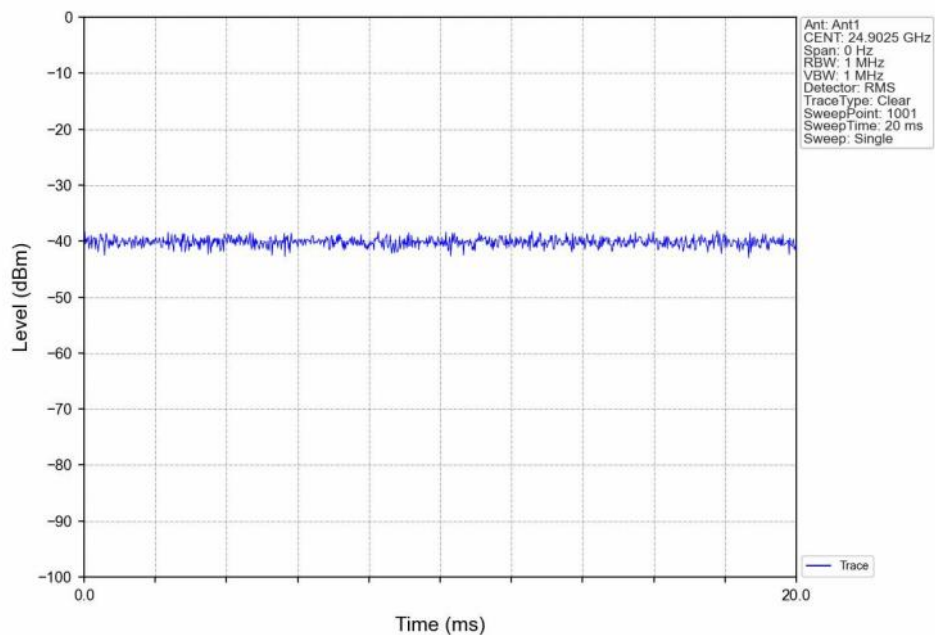


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3310.500	-40.16	/	2.22	-37.94	/	-26.02	Pass
5266.7	26000	1	1	24832.715	-30.97	-41.23	2.22	-28.75	-39.01	-26.02	Pass
5266.7	26000	1	1	24902.517	-31.02	-40.12	2.22	-28.80	-37.90	-26.02	Pass
5266.7	26000	1	1	25377.310	-30.41	-40.64	2.22	-28.19	-38.42	-26.02	Pass
5266.7	26000	1	1	25505.165	-30.50	-40.41	2.22	-28.28	-38.19	-26.02	Pass

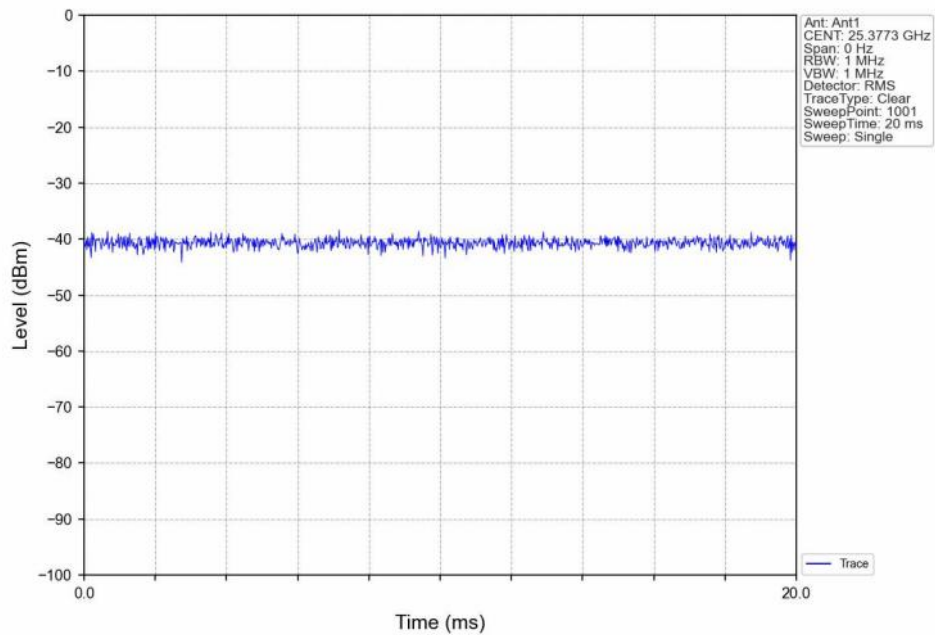
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



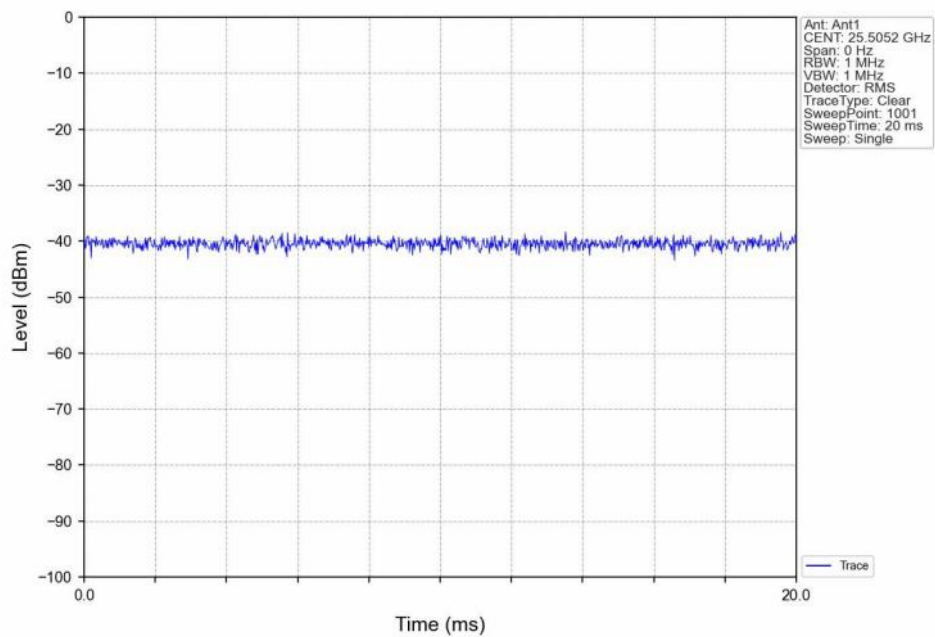
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



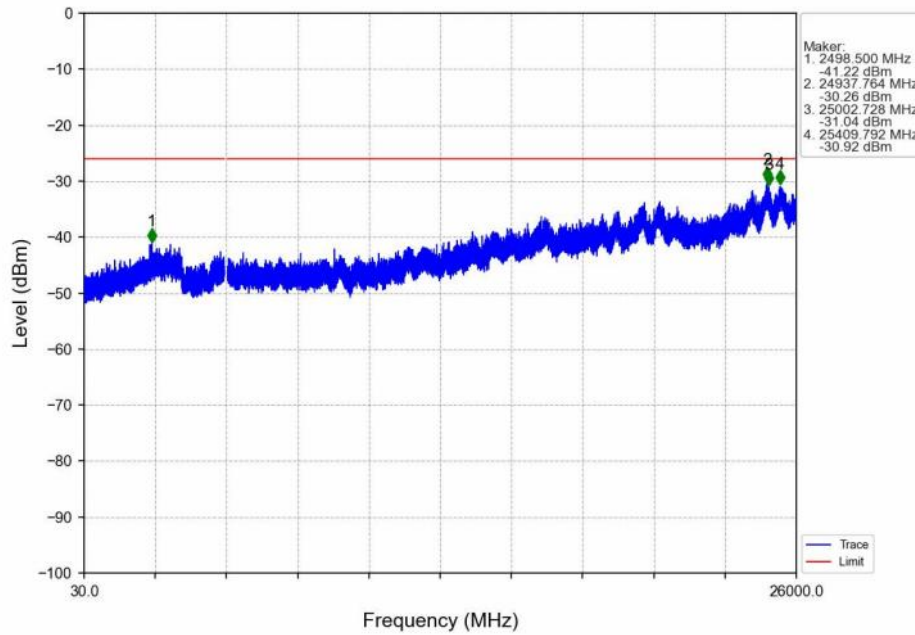
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



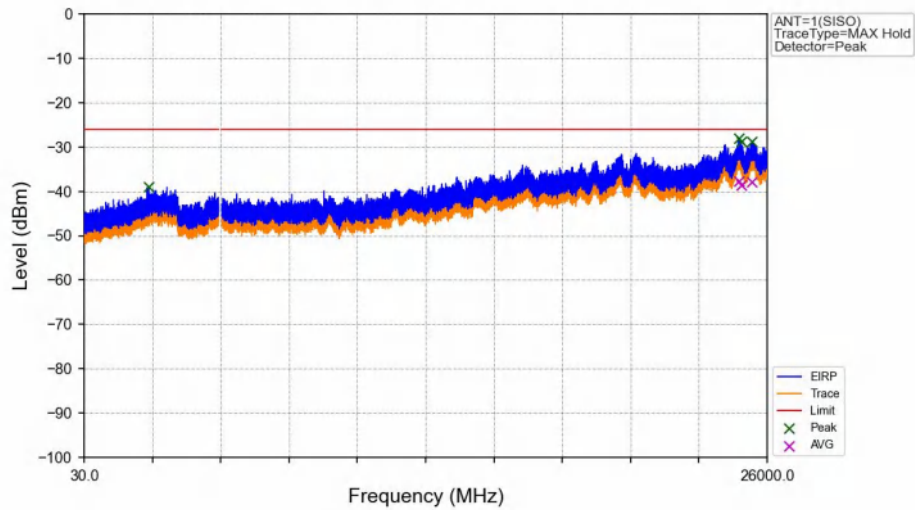
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

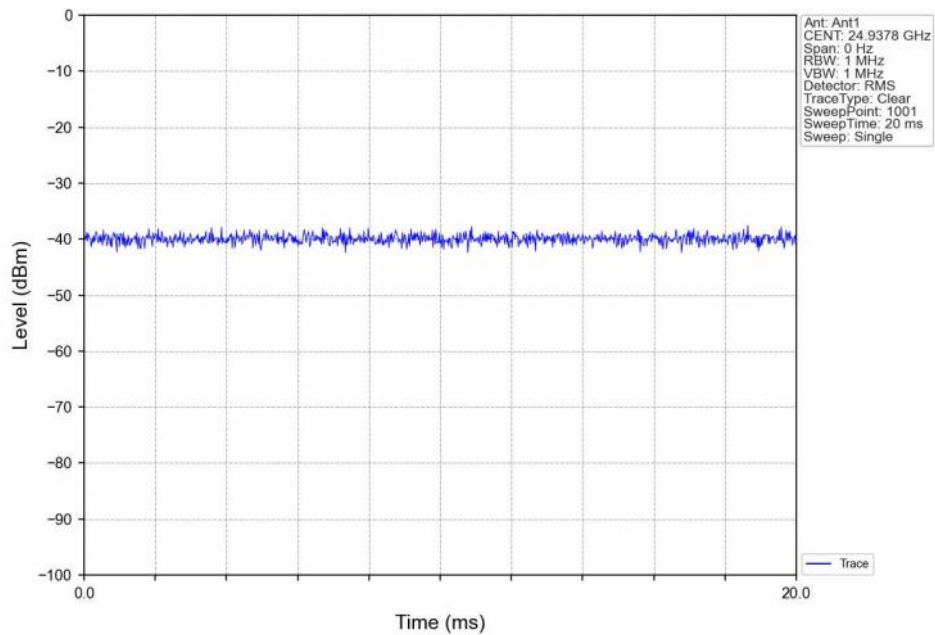


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

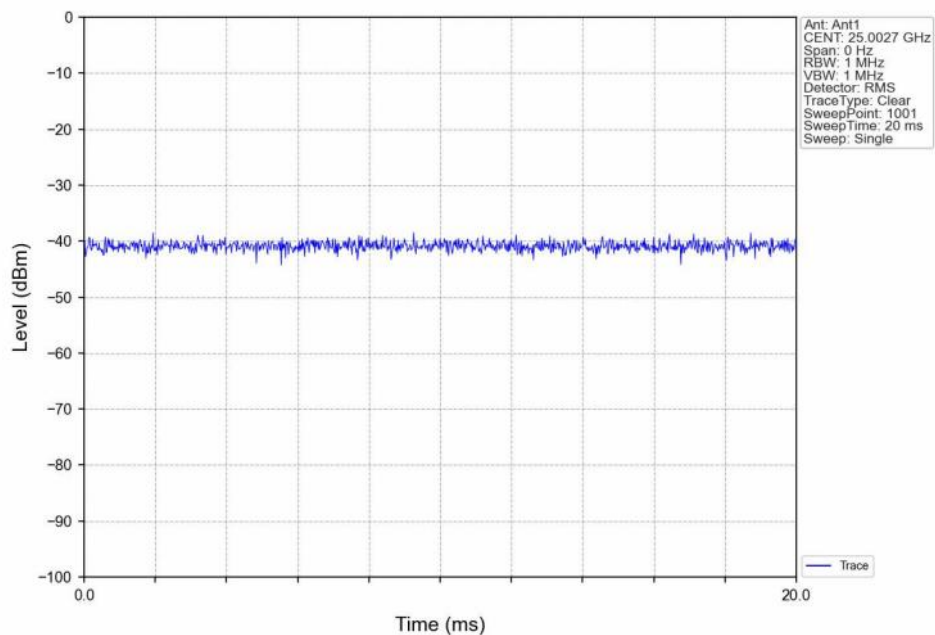


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Gain (dB)	PK EIRP (dBm)	AV EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	2498.500	-41.22	/	2.22	-39.00	/	-26.02	Pass
5266.7	26000	1	1	24937.764	-30.26	-39.89	2.22	-28.04	-37.67	-26.02	Pass
5266.7	26000	1	1	25002.728	-31.04	-40.84	2.22	-28.82	-38.62	-26.02	Pass
5266.7	26000	1	1	25409.792	-30.92	-40.04	2.22	-28.70	-37.82	-26.02	Pass

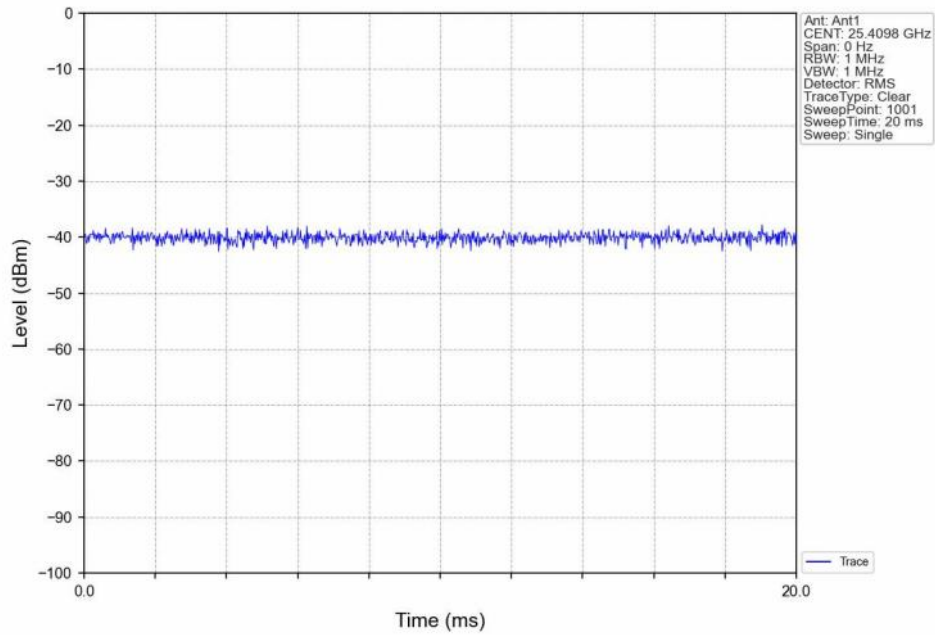
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



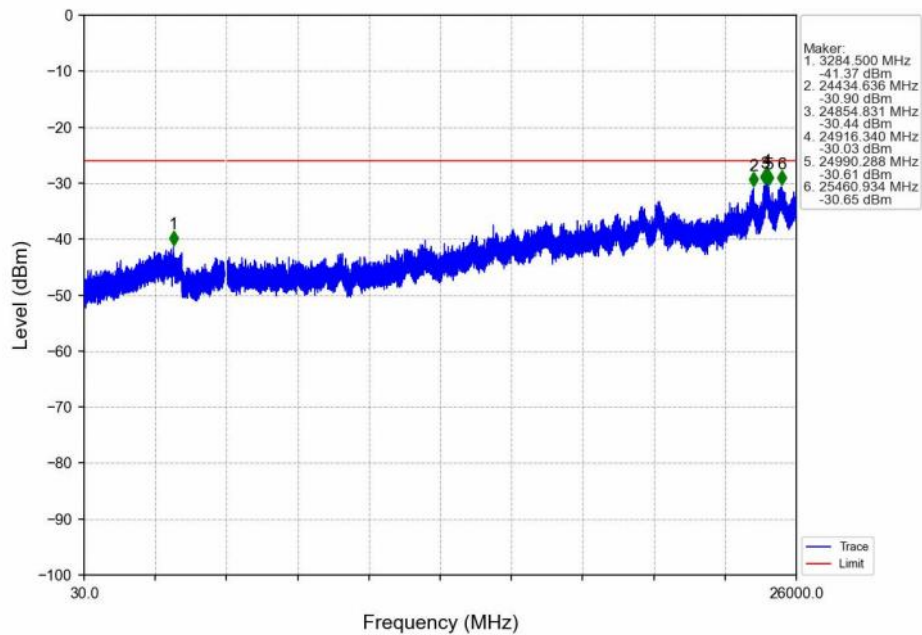
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



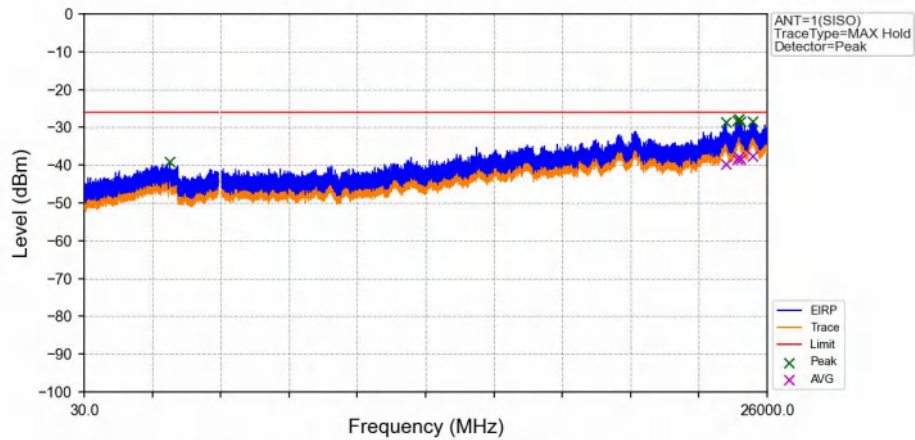
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

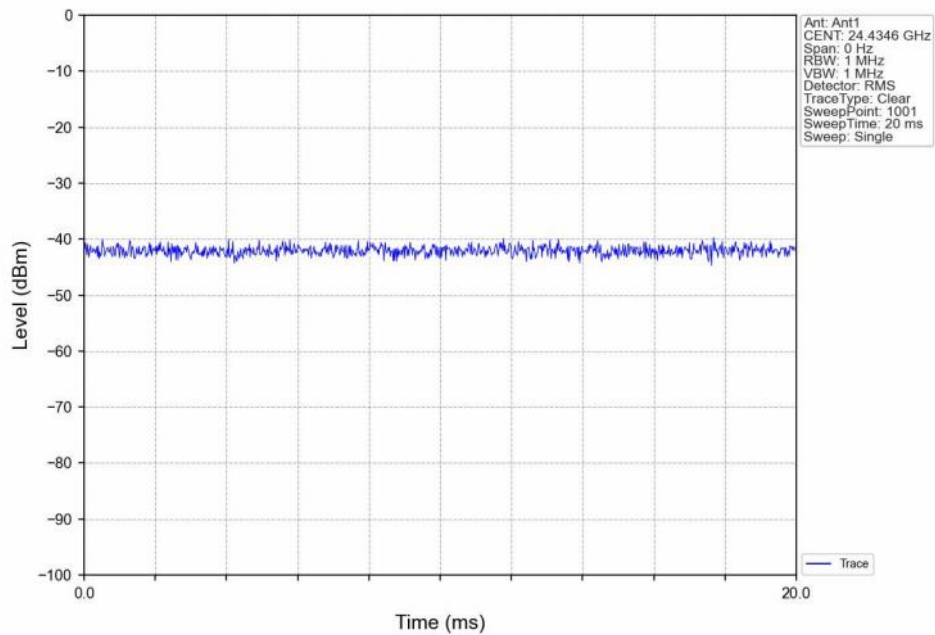


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

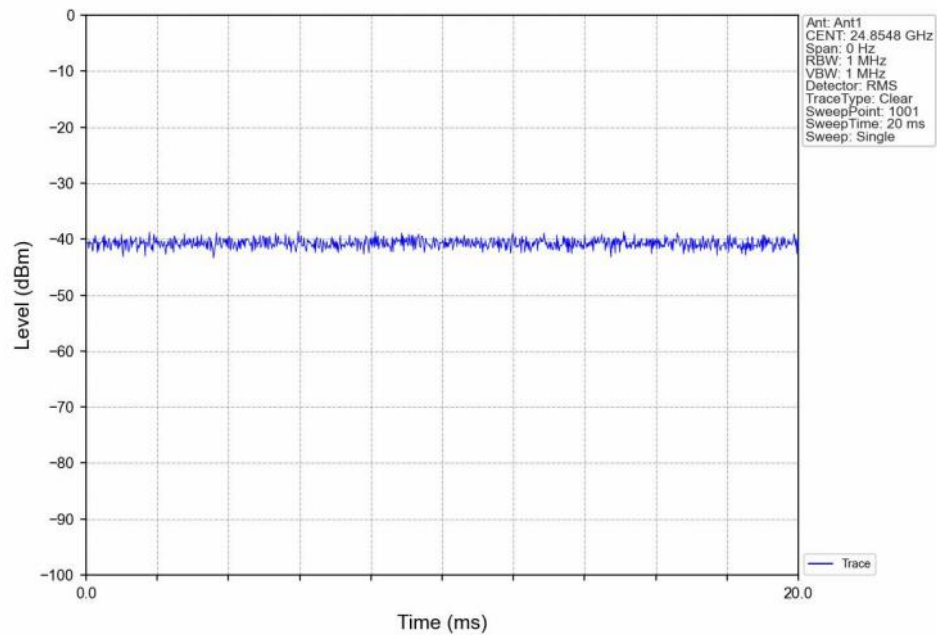


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	A/V Power (dBm)	Gain (dB)	PK EIRP (dBm)	A/V EIRP (dBm)	Limit (dBm)	Result
30	5142	1	1	3284.500	-41.37	/	2.22	-39.15	/	-26.02	Pass
5266.7	26000	1	1	24434.636	-30.90	-42.00	2.22	-28.68	-39.78	-26.02	Pass
5266.7	26000	1	1	24854.831	-30.44	-40.70	2.22	-28.22	-38.48	-26.02	Pass
5266.7	26000	1	1	24916.340	-30.03	-39.99	2.22	-27.81	-37.77	-26.02	Pass
5266.7	26000	1	1	24990.288	-30.61	-40.60	2.22	-28.39	-38.38	-26.02	Pass
5266.7	26000	1	1	25460.934	-30.65	-39.78	2.22	-28.43	-37.56	-26.02	Pass

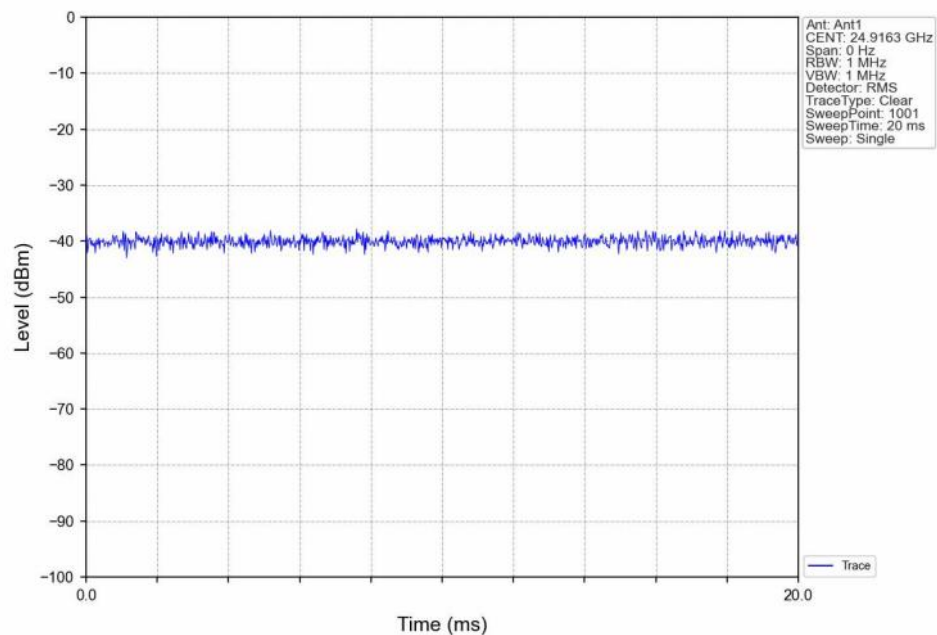
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



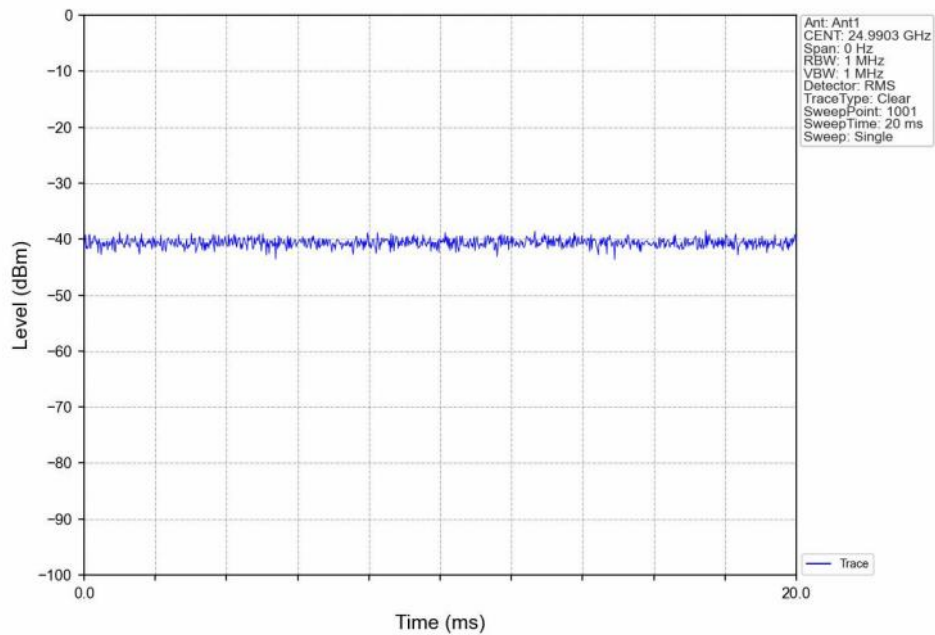
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



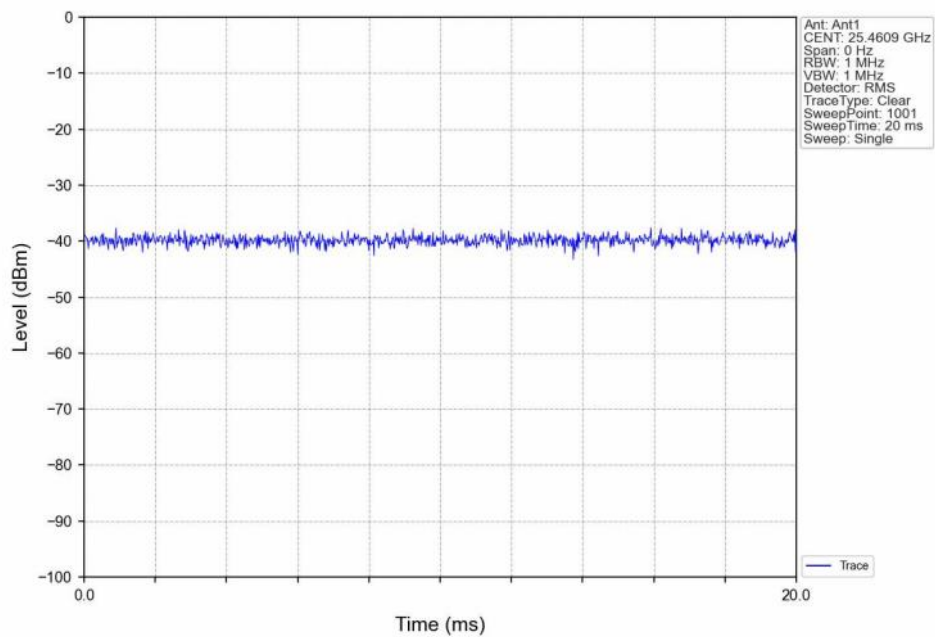
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



9. Secondary Radiated Emission

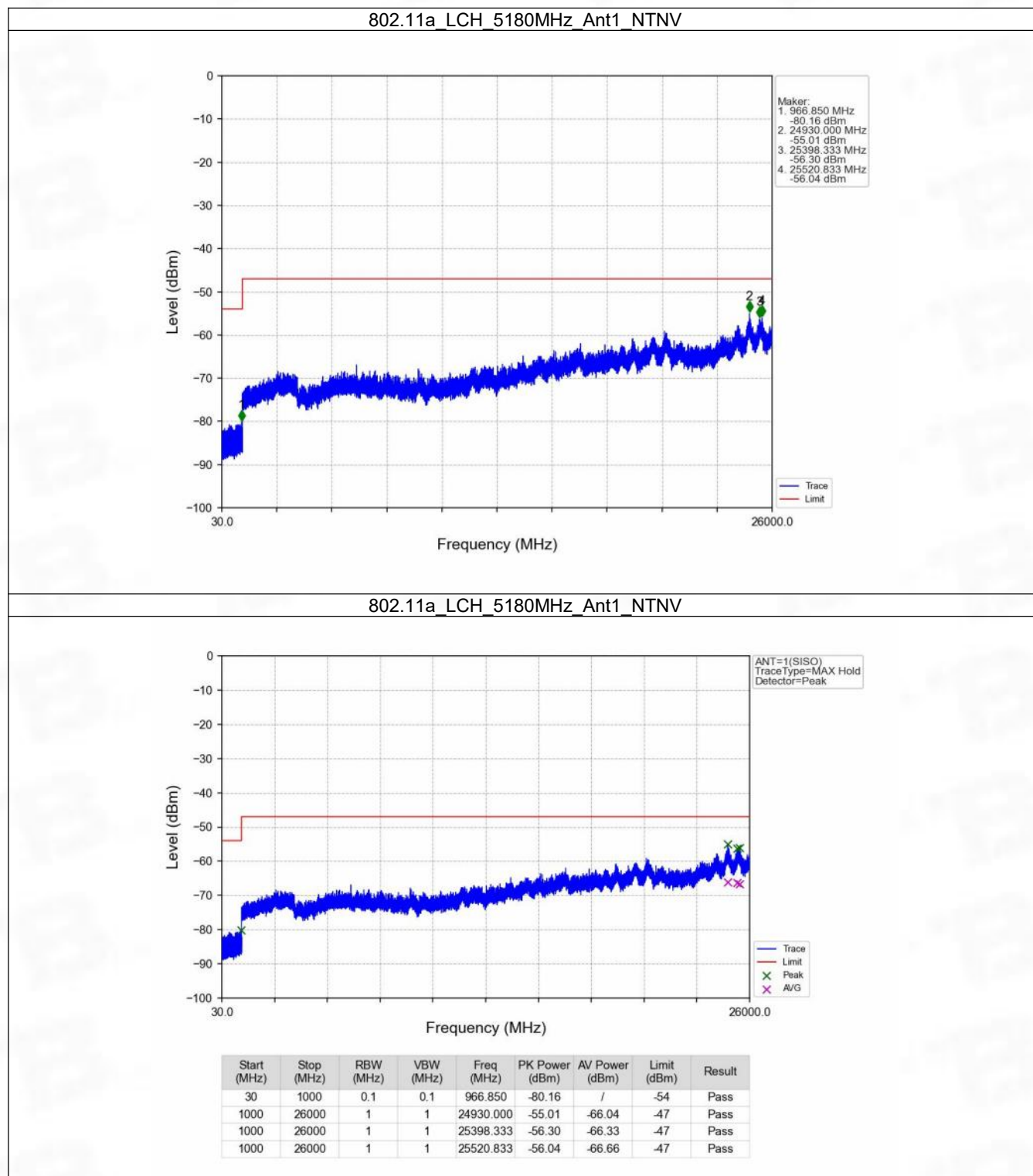
9.1 Test Result

9.1.1 RxSe_NTNV_SISO

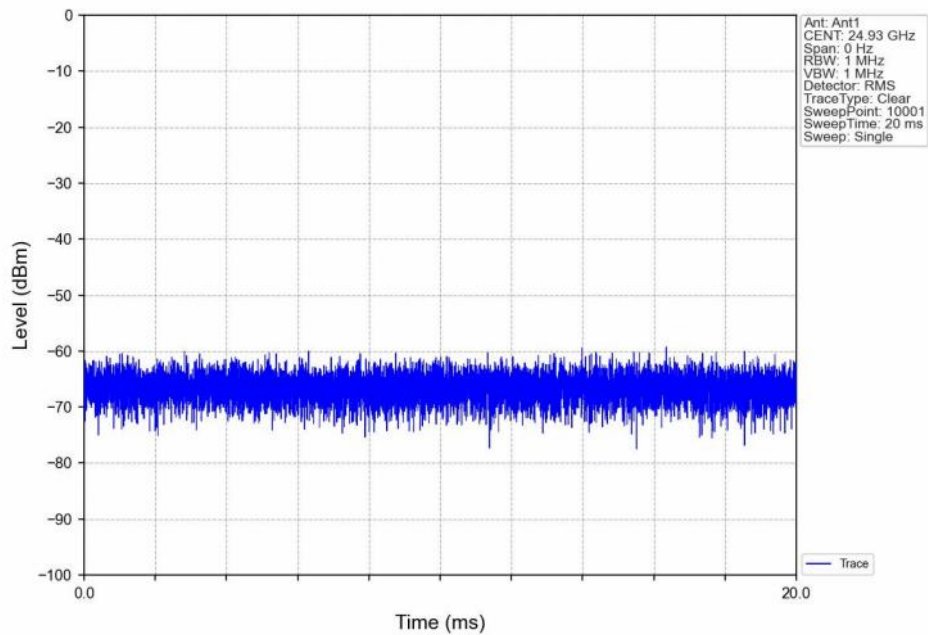
NTNV														
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict		
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)				
802.11a	SISO	5180	1	30	1000	966.85	-80.16	0.010	/	/	4	Pass		
				1000	26000	24930	-55.01	3.155	-66.04	0.249	20	Pass		
						25398.333	-56.30	2.344	-66.33	0.233	20	Pass		
						25520.833	-56.04	2.489	-66.66	0.216	20	Pass		
		5200	1	30	1000	911.1	-80.31	0.009	/	/	4	Pass		
				1000	26000	24934.167	-56.34	2.323	-66.00	0.251	20	Pass		
						25057.5	-56.94	2.023	-67.92	0.161	20	Pass		
						25438.333	-56.19	2.404	-65.91	0.256	20	Pass		
		5240	1	1000	26000	25540	-56.64	2.168	-66.94	0.202	20	Pass		
						30	1000	698.45	-79.66	0.011	/	/	4	Pass
						24859.167	-56.93	2.028	-66.78	0.210	20	Pass		
						24950	-56.17	2.415	-65.99	0.252	20	Pass		
		802.11n (HT20)	SISO	5180	1	30	1000	880.5	-80.26	0.009	/	/	4	Pass
						1000	26000	24941.667	-56.60	2.188	-65.93	0.255	20	Pass
25476.667	-56.46							2.259	-66.06	0.248	20	Pass		
5200	1			30	1000	826.05	-79.92	0.010	/	/	4	Pass		
				1000	26000	24862.5	-56.96	2.014	-66.72	0.213	20	Pass		
						24925	-56.43	2.275	-65.98	0.252	20	Pass		
						25397.5	-54.63	3.443	-66.25	0.237	20	Pass		
5240	1			1000	26000	25460.833	-56.00	2.512	-65.82	0.262	20	Pass		
						30	1000	913.9	-80.55	0.009	/	/	4	Pass
						24883.333	-55.99	2.518	-66.46	0.226	20	Pass		
						24948.333	-56.70	2.138	-65.99	0.252	20	Pass		
								25451.667	-56.54	2.218	-65.87	0.259	20	Pass

9.2 Test Graph

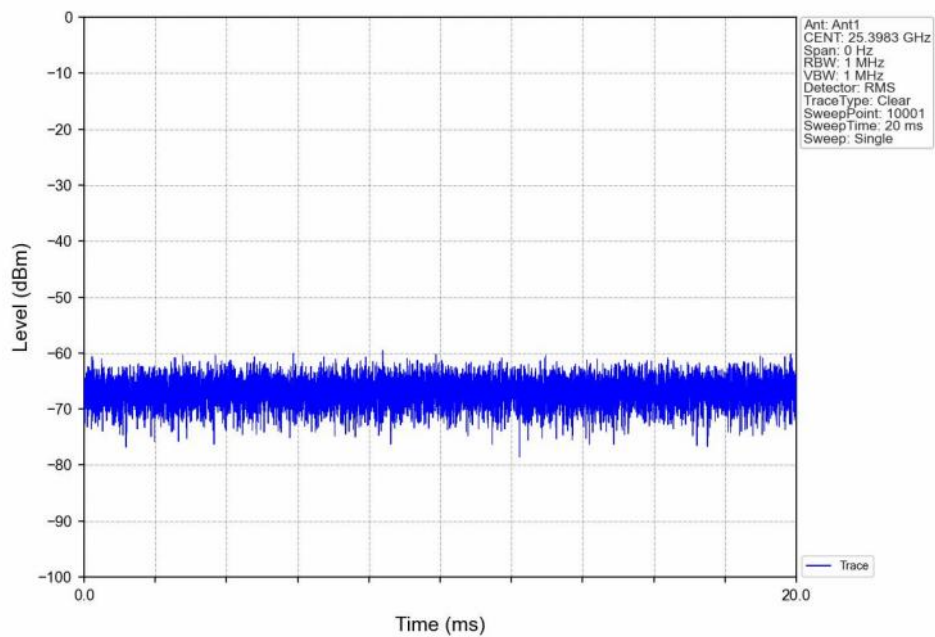
9.2.1 RxSe_NTNV_SISO



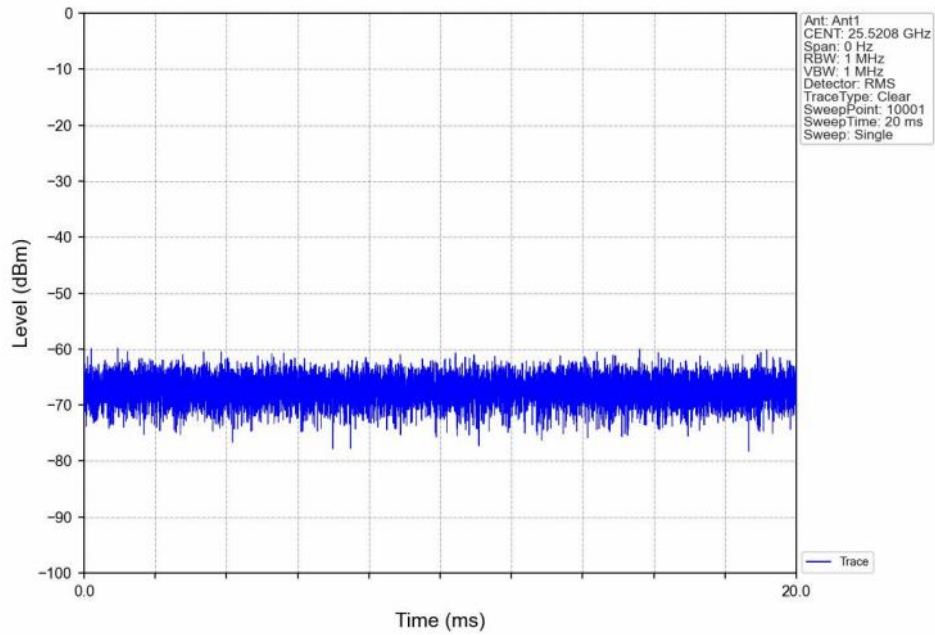
802.11a_LCH_5180MHz_Ant1_NTNV



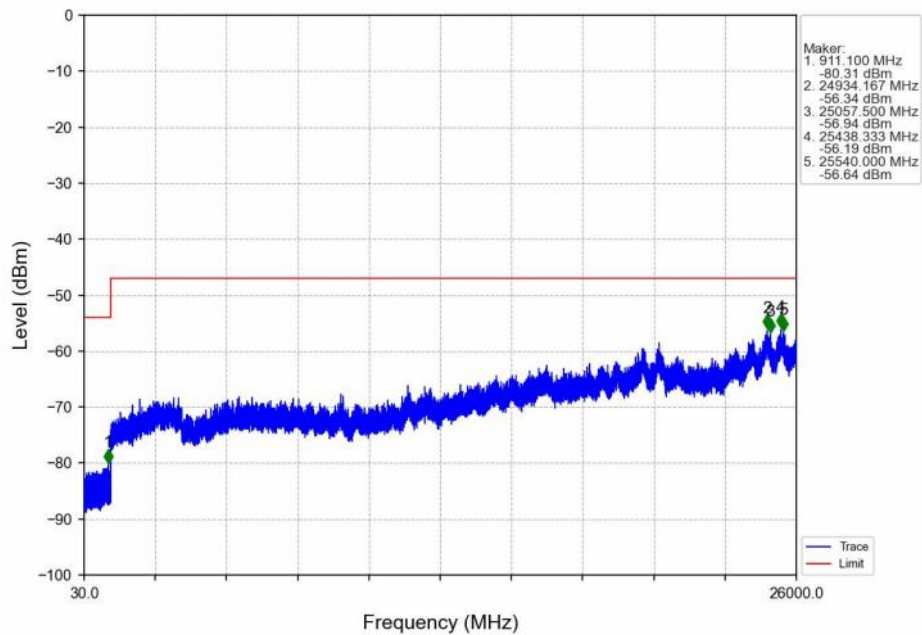
802.11a_LCH_5180MHz_Ant1_NTNV



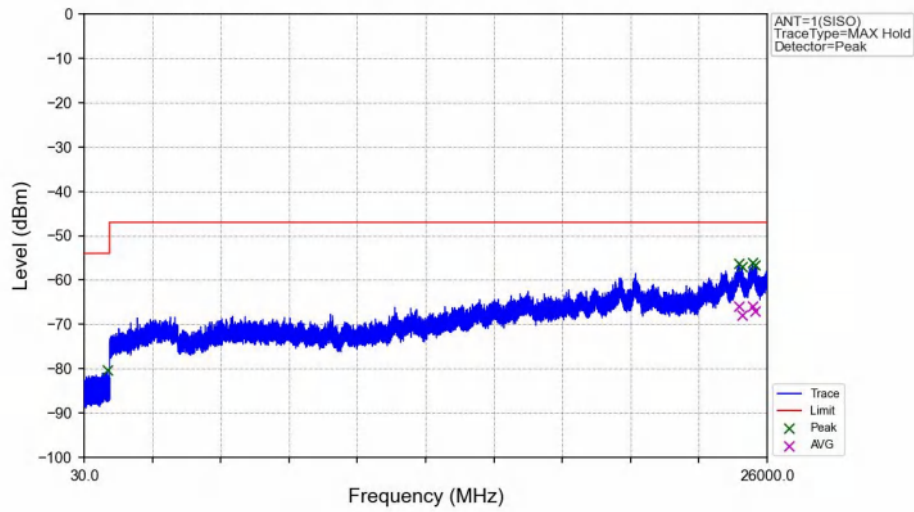
802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV

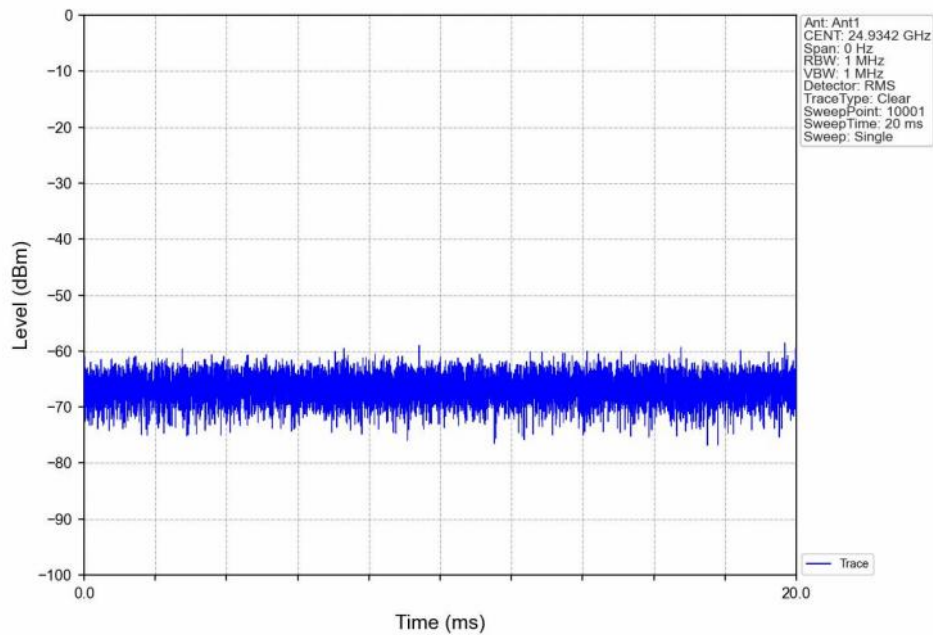


802.11a_MCH_5200MHz_Ant1_NTNV

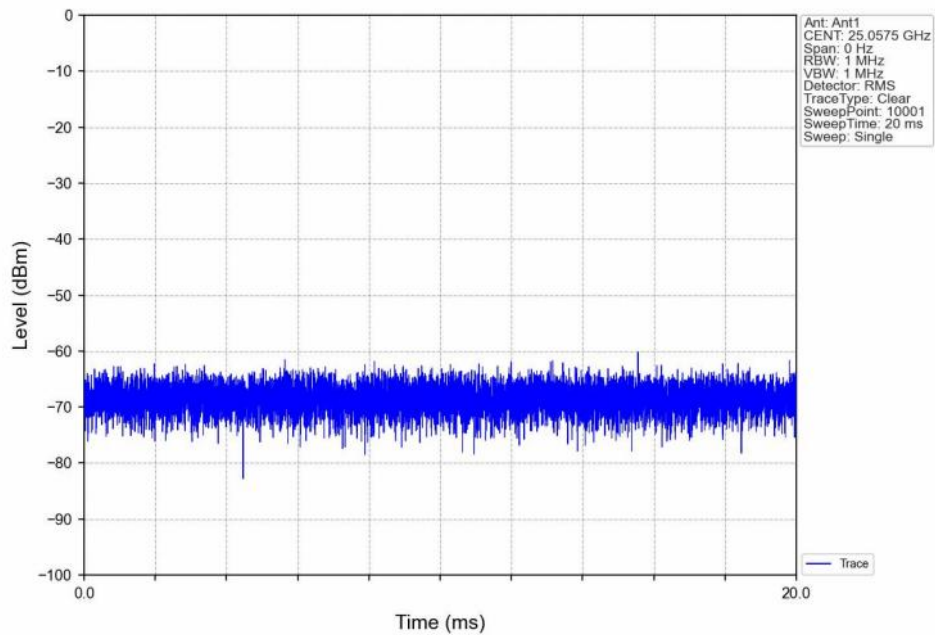


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	911.100	-80.31	/	-54	Pass
1000	26000	1	1	24934.167	-56.34	-66.00	-47	Pass
1000	26000	1	1	25057.500	-56.94	-67.92	-47	Pass
1000	26000	1	1	25438.333	-56.19	-65.91	-47	Pass
1000	26000	1	1	25540.000	-56.64	-66.94	-47	Pass

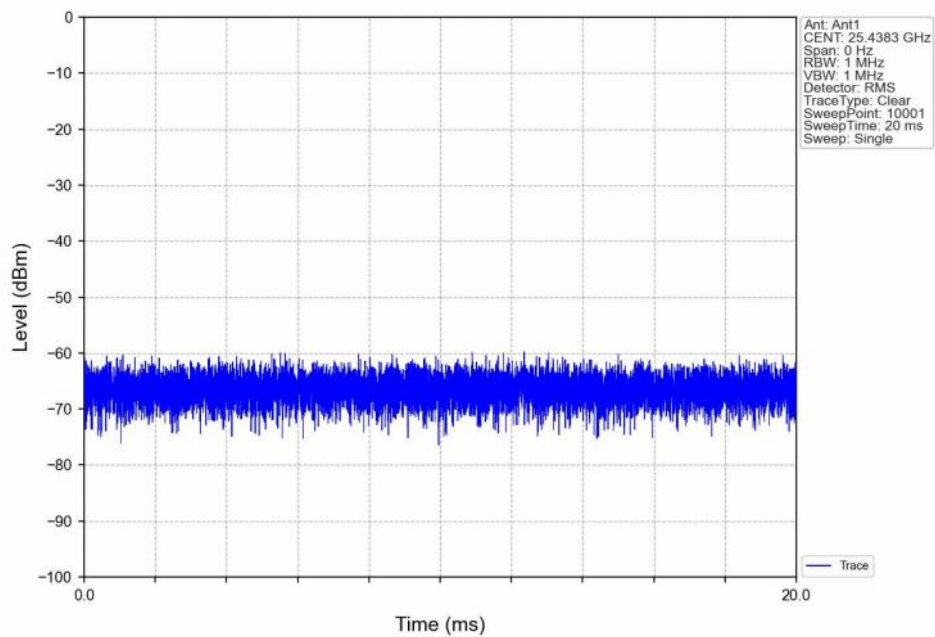
802.11a_MCH_5200MHz_Ant1_NTNV



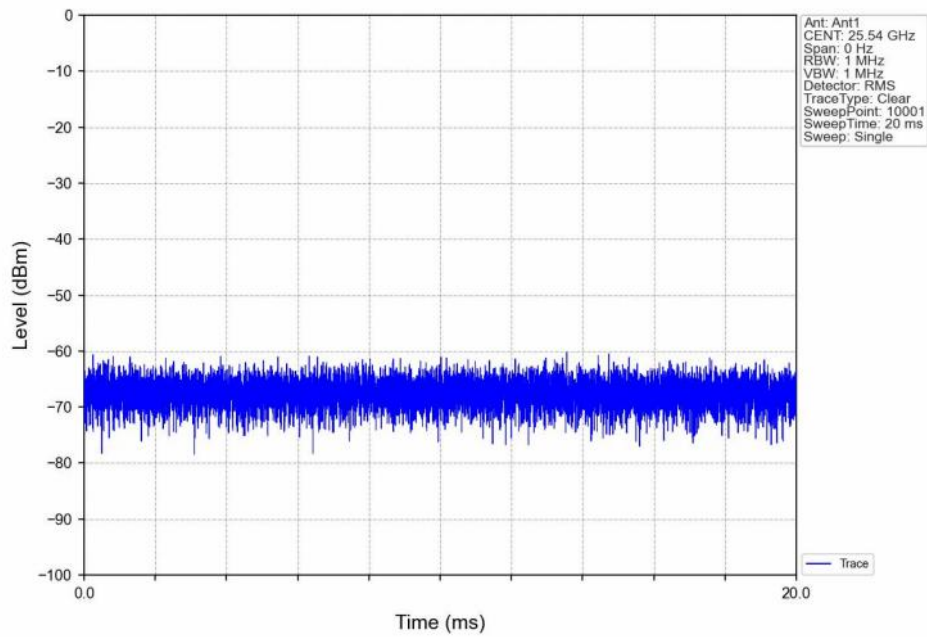
802.11a_MCH_5200MHz_Ant1_NTNV



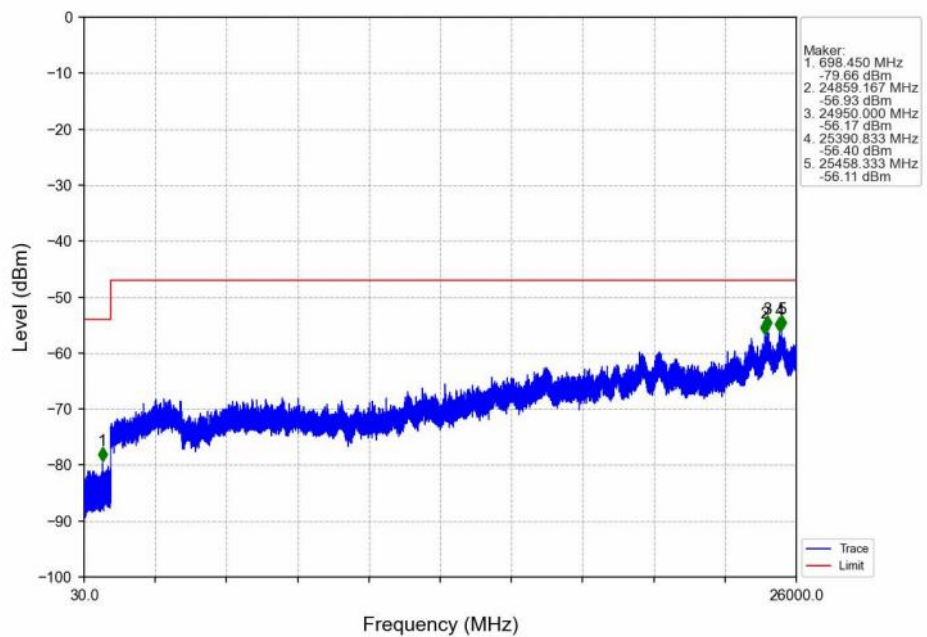
802.11a_MCH_5200MHz_Ant1_NTNV



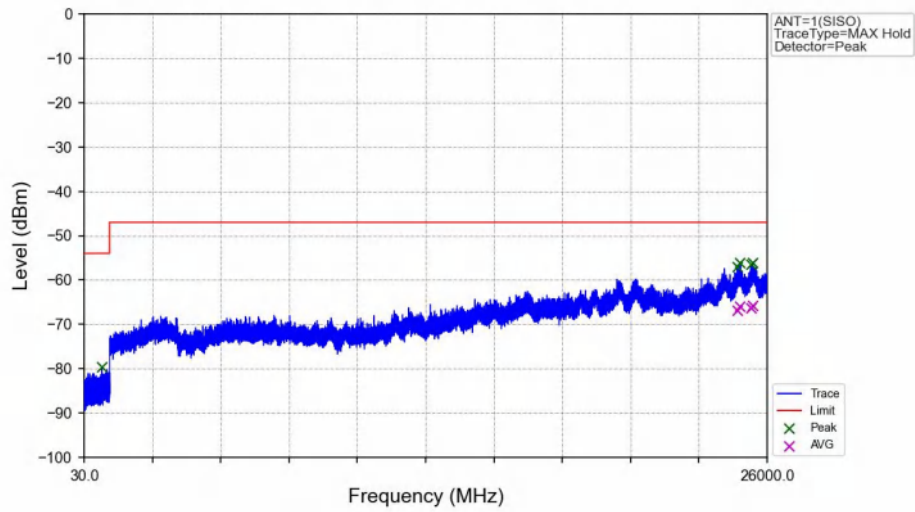
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant1_NTNV

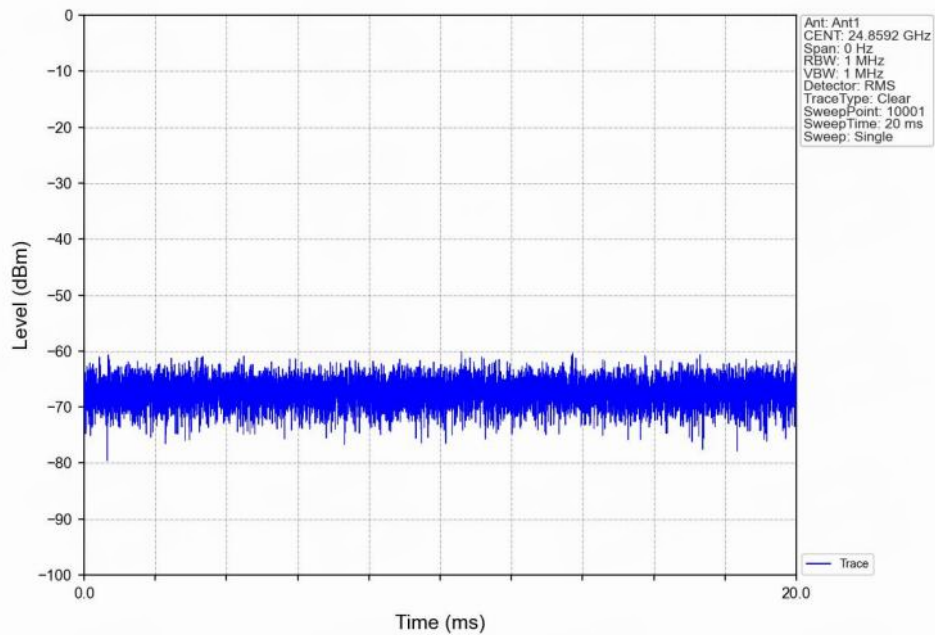


802.11a_HCH_5240MHz_Ant1_NTNV

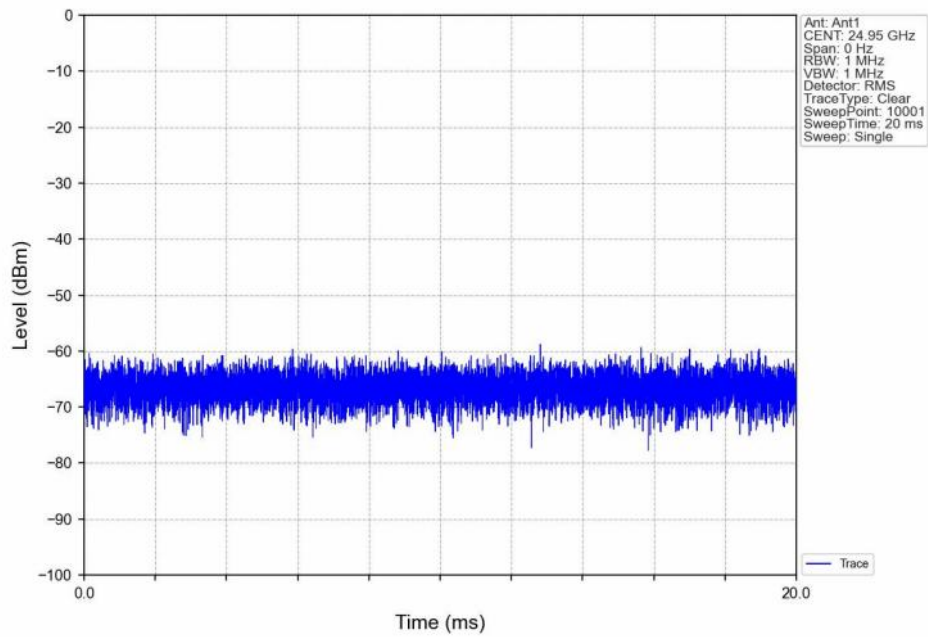


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	698.450	-79.66	/	-54	Pass
1000	26000	1	1	24859.167	-56.93	-66.78	-47	Pass
1000	26000	1	1	24950.000	-56.17	-65.99	-47	Pass
1000	26000	1	1	25390.833	-56.40	-66.38	-47	Pass
1000	26000	1	1	25458.333	-56.11	-65.79	-47	Pass

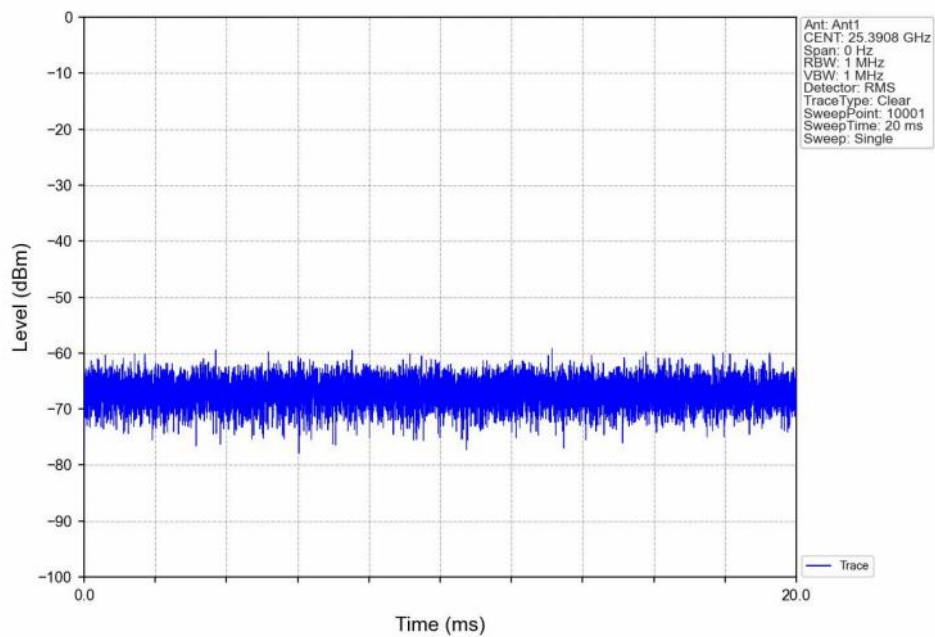
802.11a_HCH_5240MHz_Ant1_NTNV



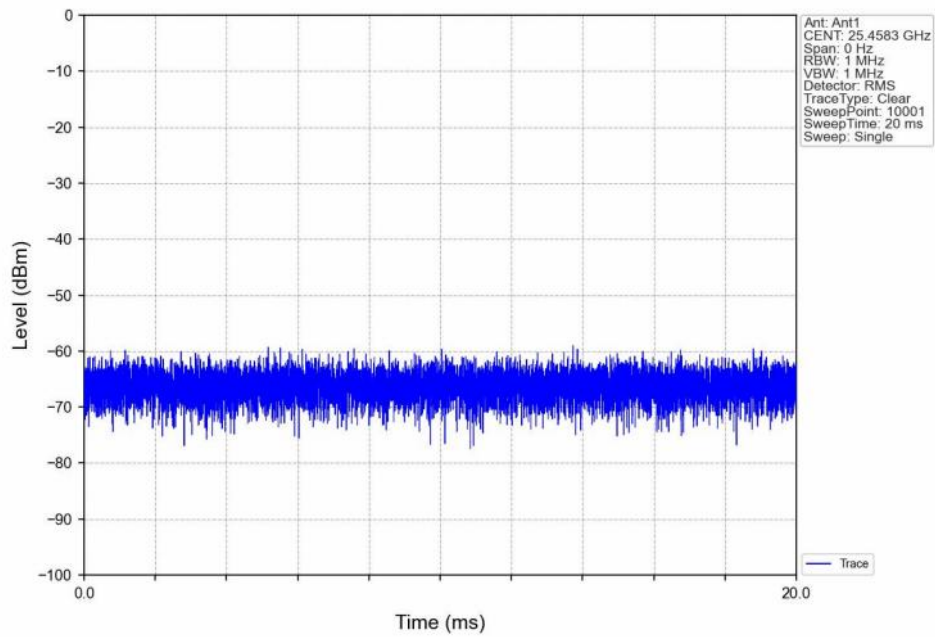
802.11a_HCH_5240MHz_Ant1_NTNV



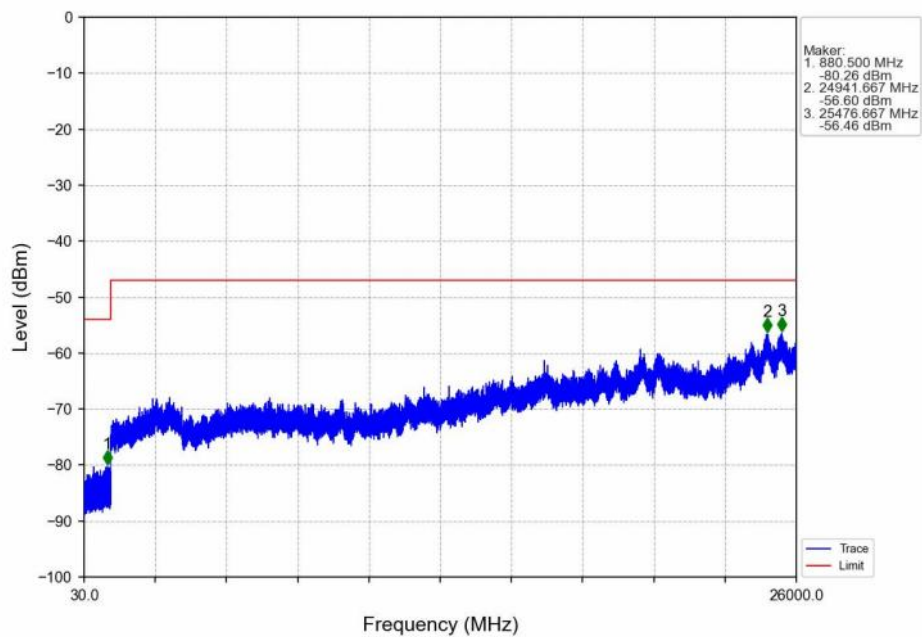
802.11a_HCH_5240MHz_Ant1_NTNV



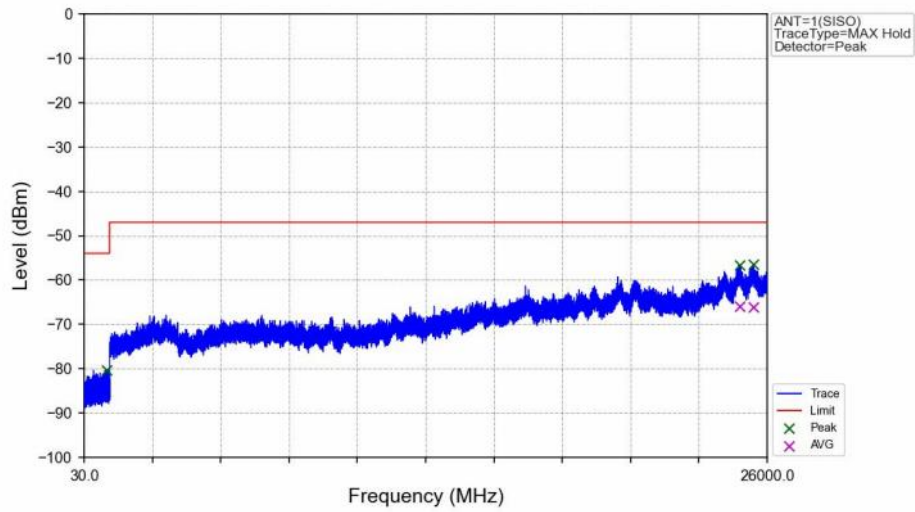
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

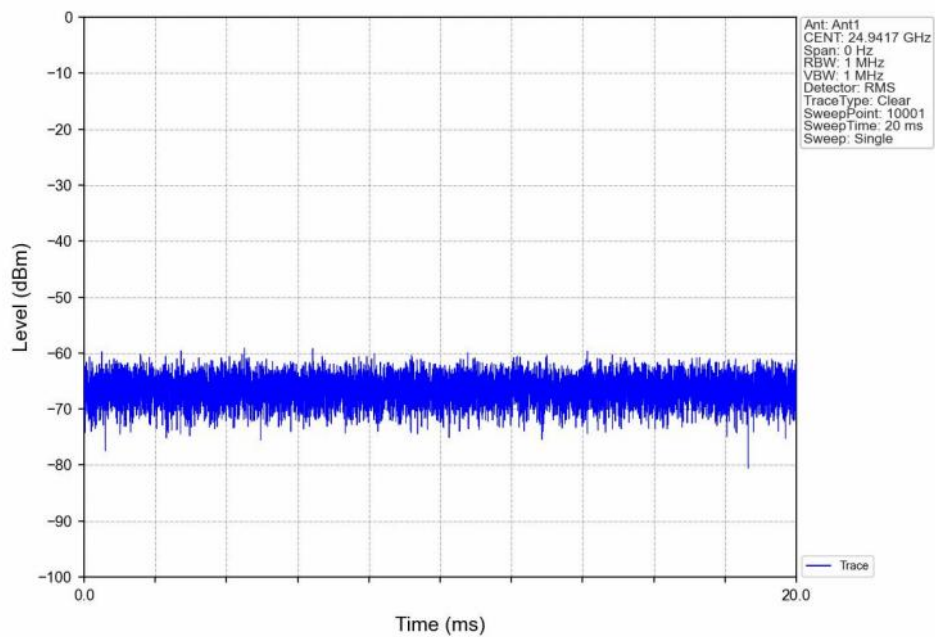


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

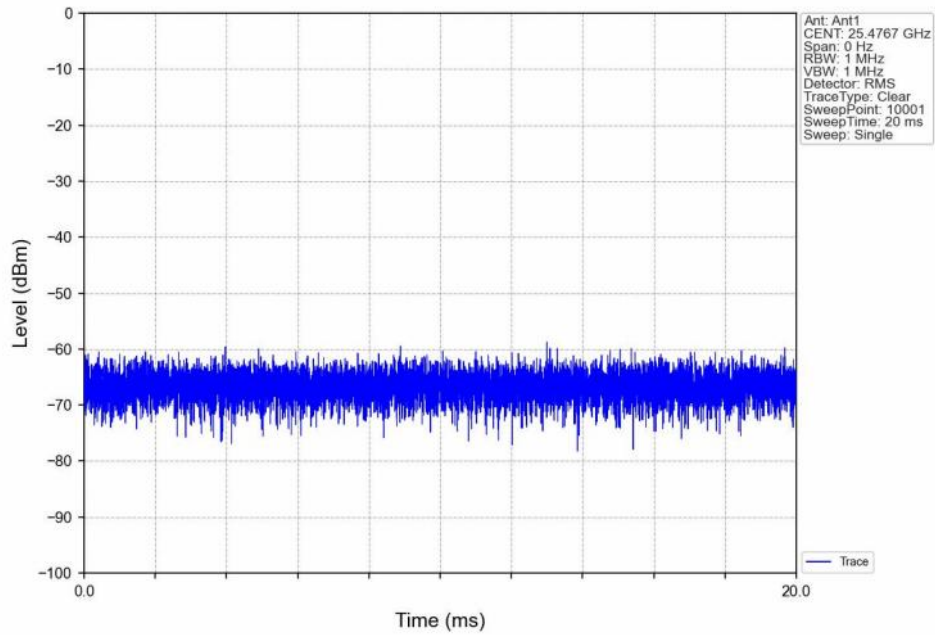


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	880.500	-80.26	/	-54	Pass
1000	26000	1	1	24941.667	-56.60	-65.93	-47	Pass
1000	26000	1	1	25476.667	-56.46	-66.06	-47	Pass

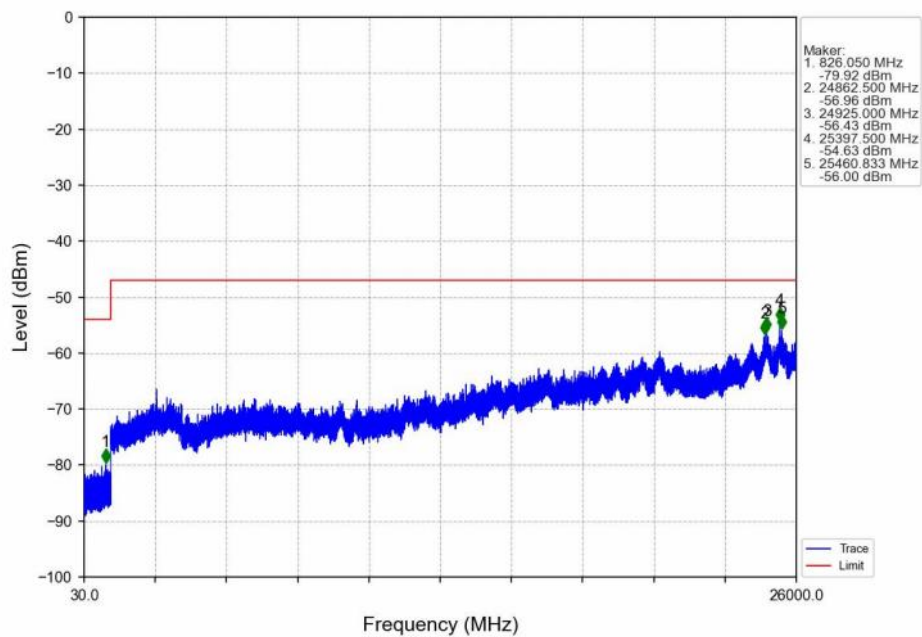
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



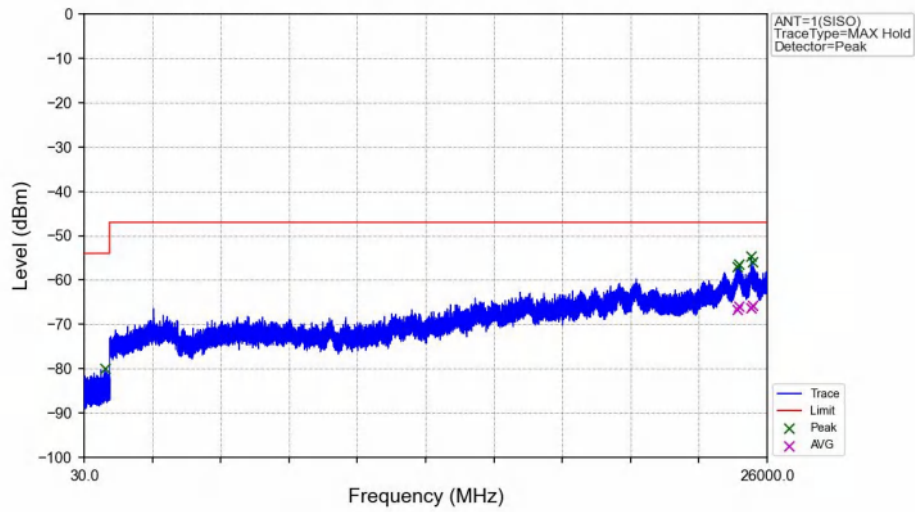
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

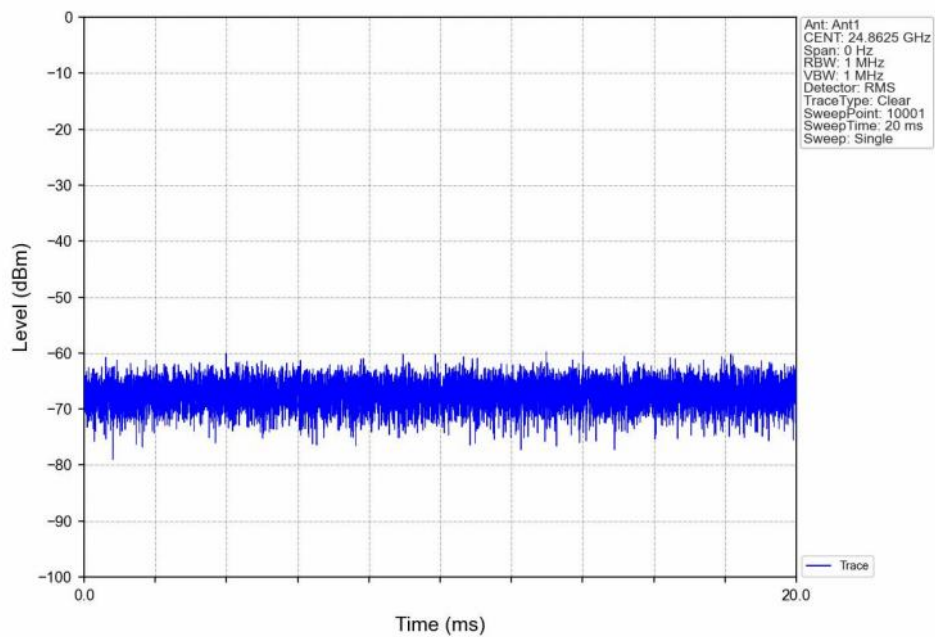


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

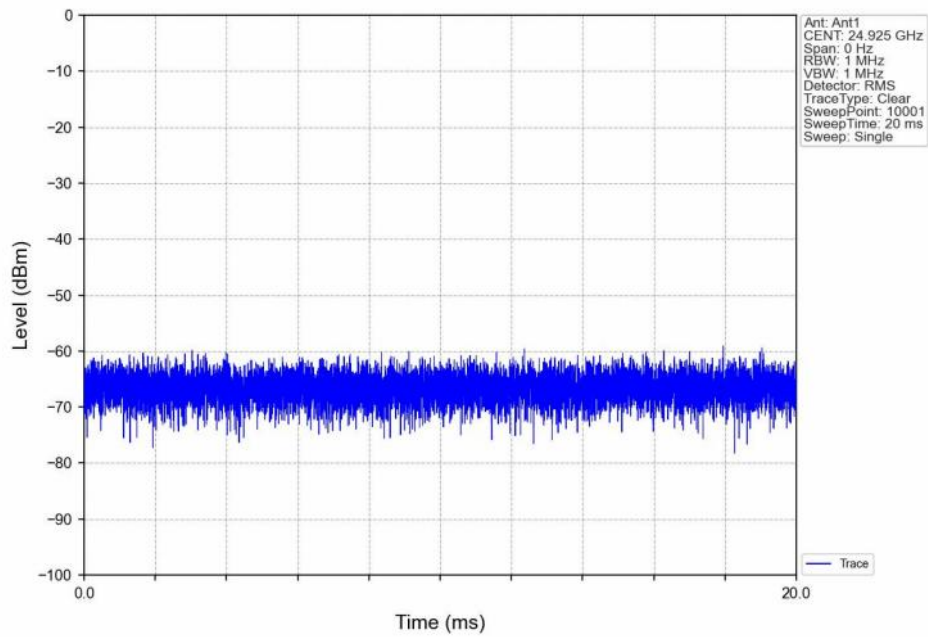


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	826.050	-79.92	/	-54	Pass
1000	26000	1	1	24862.500	-56.96	-66.72	-47	Pass
1000	26000	1	1	24925.000	-56.43	-65.98	-47	Pass
1000	26000	1	1	25397.500	-54.63	-66.25	-47	Pass
1000	26000	1	1	25460.833	-56.00	-65.82	-47	Pass

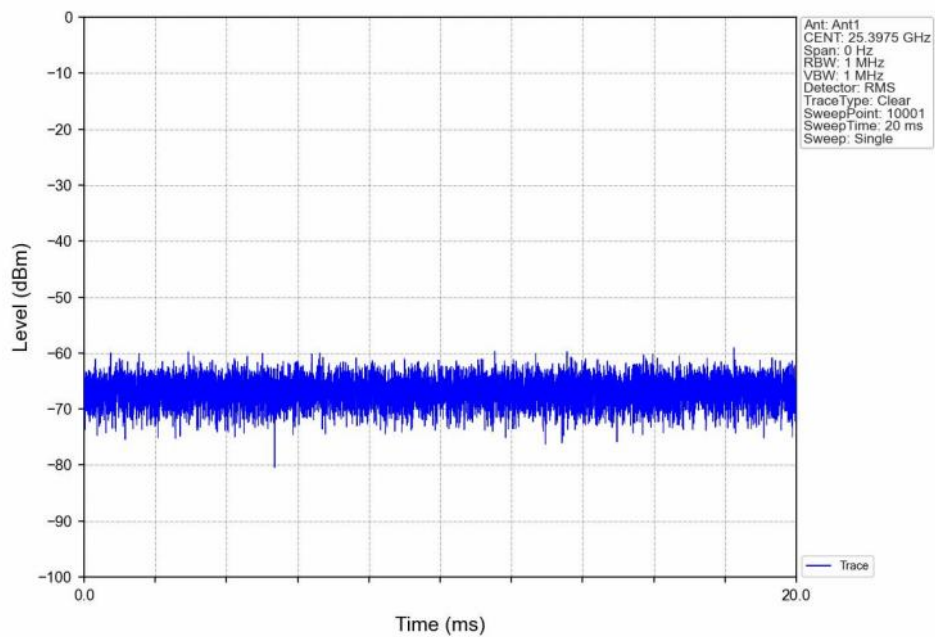
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



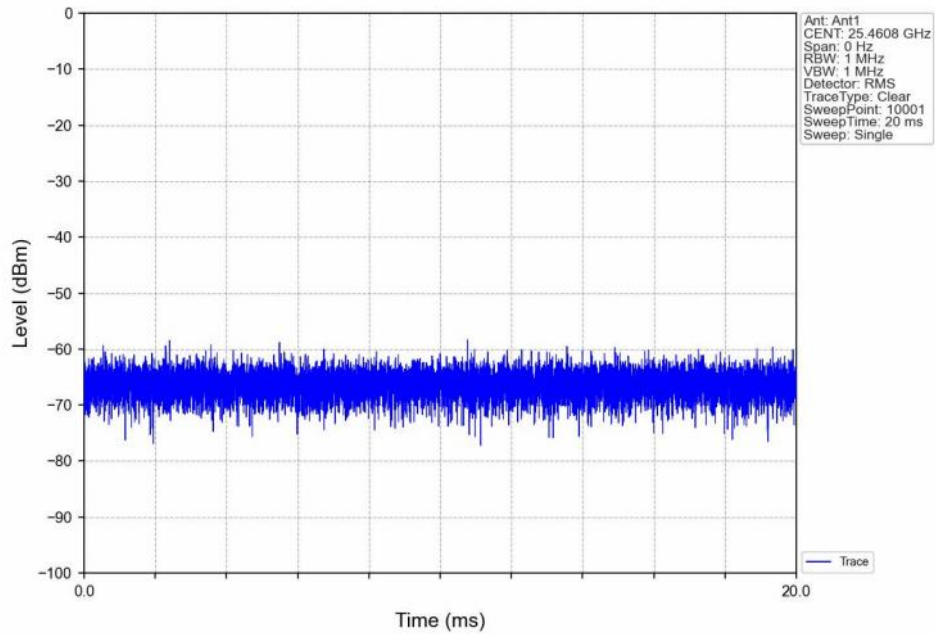
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



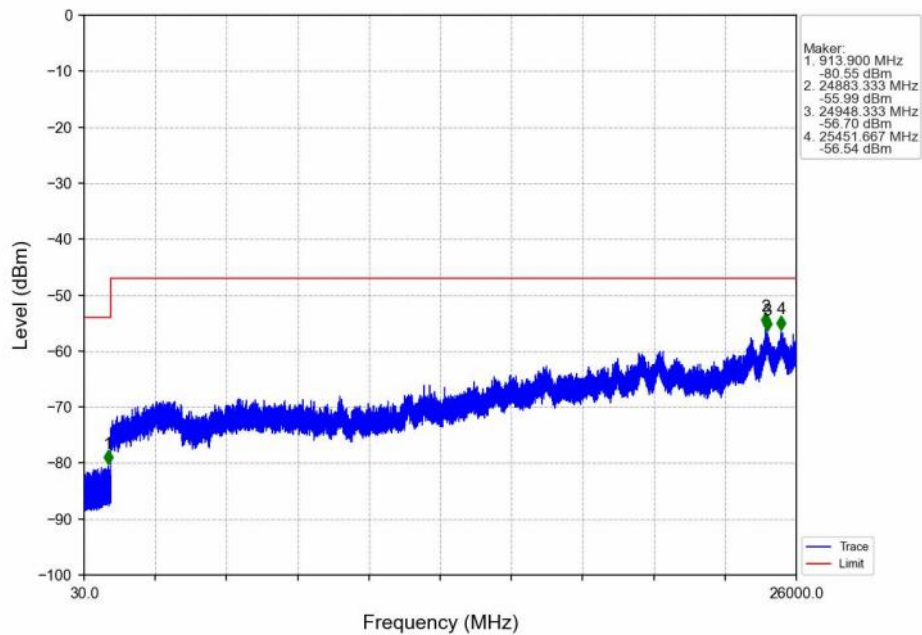
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



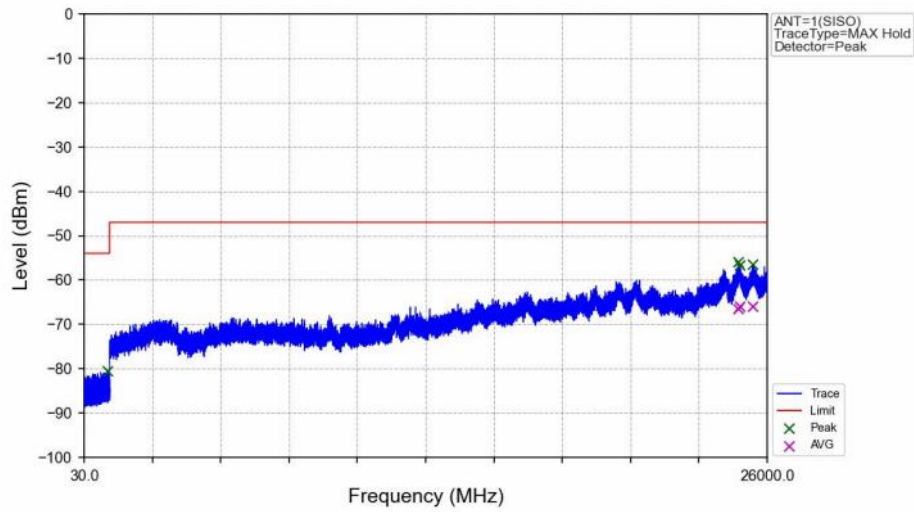
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

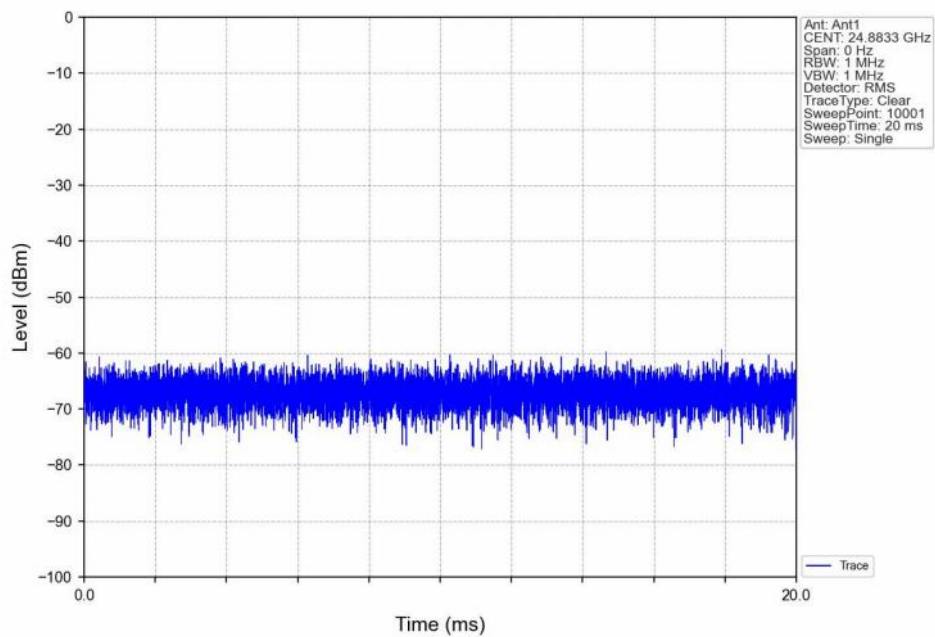


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

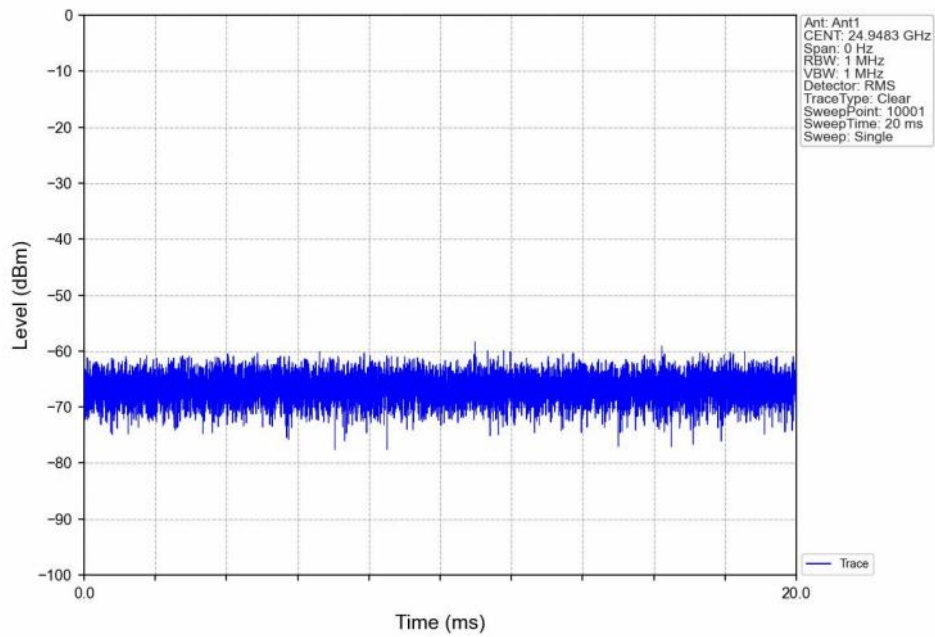


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	913.900	-80.55	/	-54	Pass
1000	26000	1	1	24883.333	-55.99	-66.46	-47	Pass
1000	26000	1	1	24948.333	-56.70	-65.99	-47	Pass
1000	26000	1	1	25451.667	-56.54	-65.87	-47	Pass

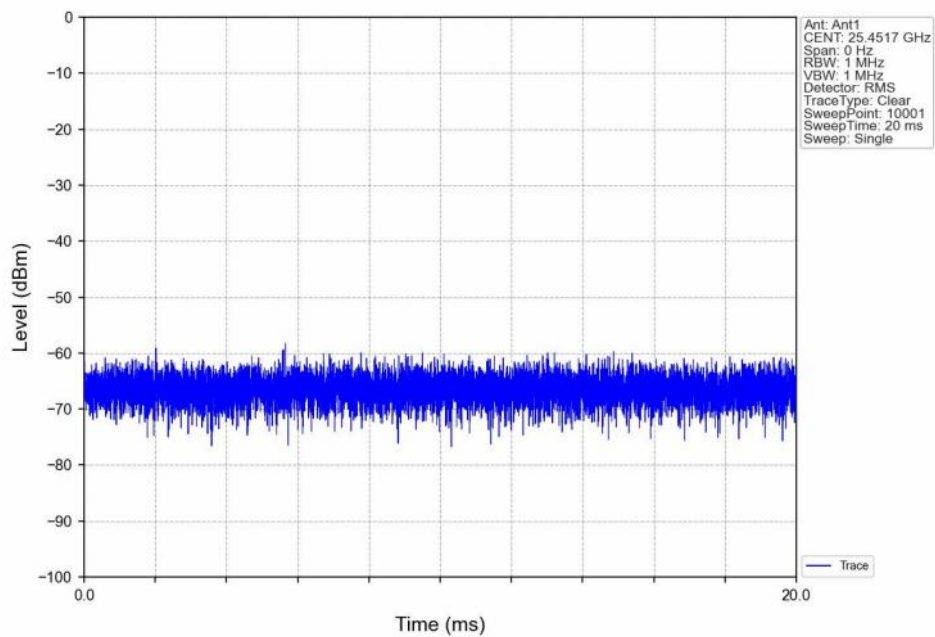
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



10. Carrier Sensing

10.1 Test Result

