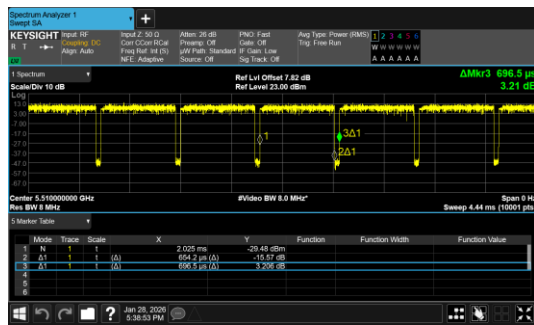




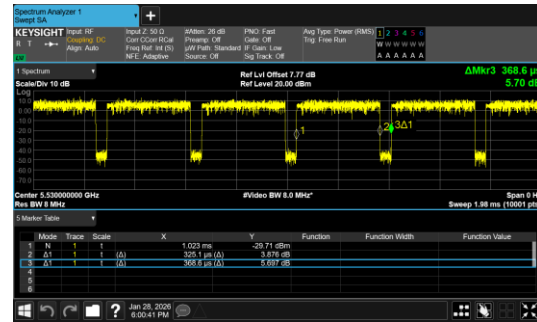
IEEE 802.11ac_40MHz_Channel 102



IEEE 802.11ac_40MHz_Channel 118



IEEE 802.11ac_40MHz_Channel 134



IEEE 802.11ac_80MHz_Channel 106



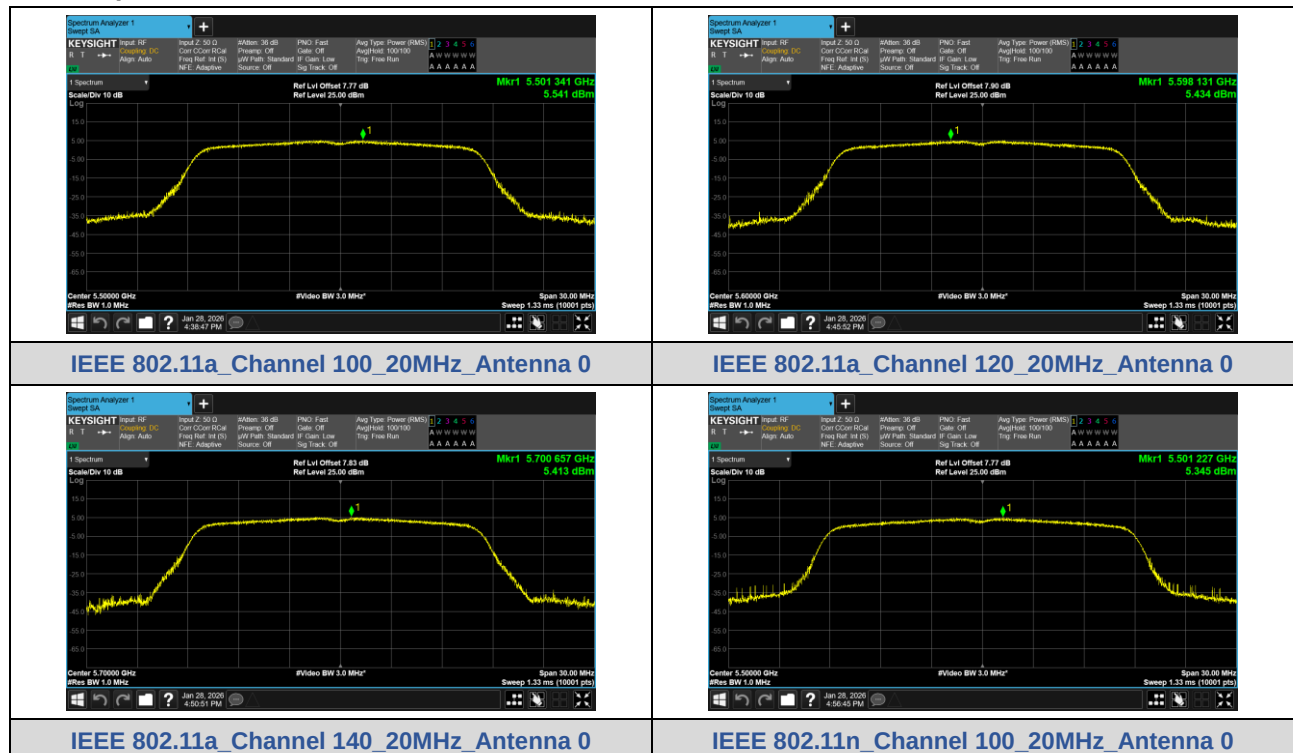
IEEE 802.11ac_80MHz_Channel 122

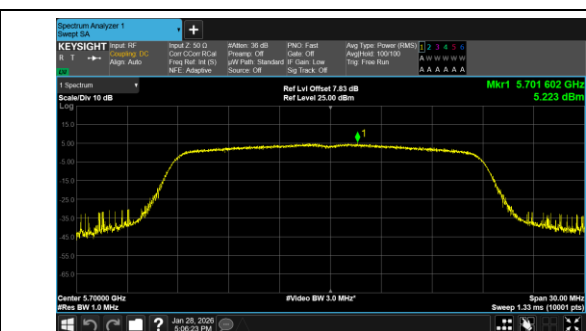
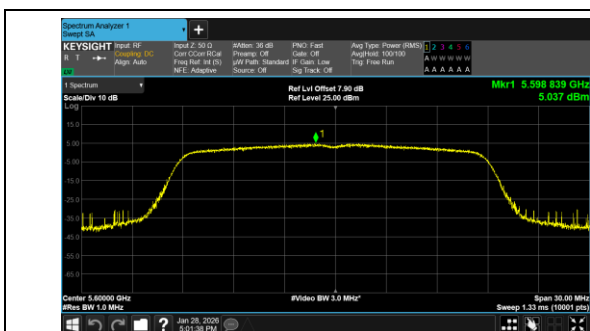
Power Spectral Density

Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz)	Ant. 0 Corr'd PSD (dBm/MHz)	Limit (dBm/MHz)	Result
IEEE 802.11a	100	5.541	5.67	11	PASS
	120	5.434	5.563		PASS
	140	5.413	5.542		PASS
IEEE 802.11n_20	100	5.345	5.479		PASS
	120	5.037	5.171		PASS
	140	5.223	5.357		PASS
IEEE 802.11n_40	102	1.767	2.043		PASS
	118	2.176	2.452		PASS
	134	1.985	2.261		PASS
IEEE 802.11ac_20	100	4.798	4.936		PASS
	120	4.692	4.83		PASS
	140	4.875	5.013		PASS
IEEE 802.11ac_40	102	1.766	2.041		PASS
	118	1.107	1.382		PASS
	134	2.118	2.393		PASS
IEEE 802.11ac_80	106	-1.304	-0.762		PASS
	122	-2.579	-2.037		PASS

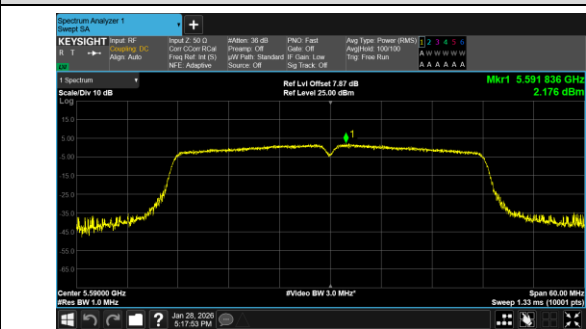
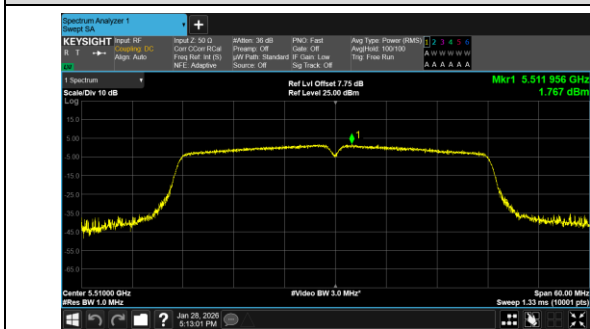
Test Graphs





IEEE 802.11n Channel 120 20MHz Antenna 0

IEEE 802.11n Channel 140 20MHz Antenna 0



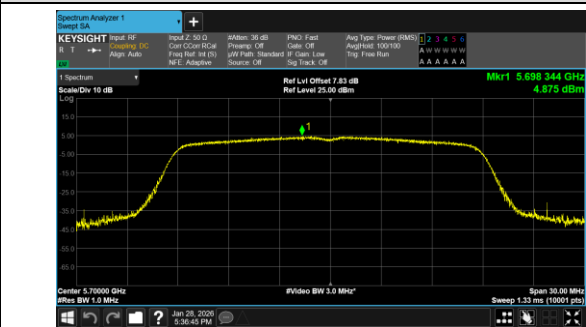
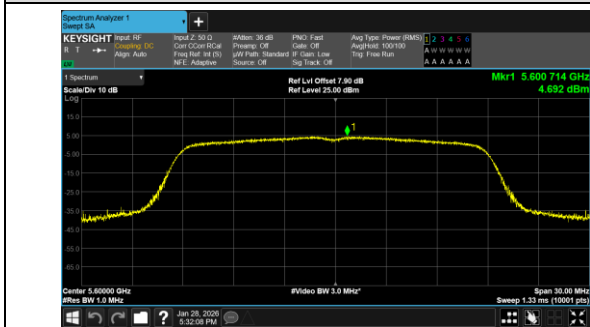
IEEE 802.11n Channel 102 40MHz Antenna 0

IEEE 802.11n Channel 118 40MHz Antenna 0



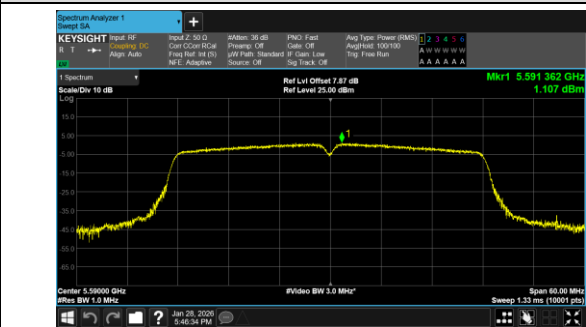
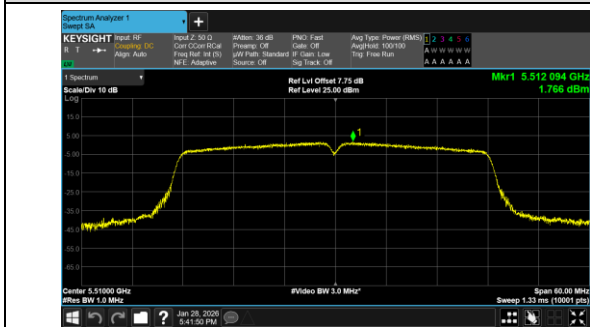
IEEE 802.11n Channel 134 40MHz Antenna 0

IEEE 802.11ac Channel 100 20MHz Antenna 0



IEEE 802.11ac Channel 120 20MHz Antenna 0

IEEE 802.11ac Channel 140 20MHz Antenna 0



IEEE 802.11ac_Channel 102_40MHz_Antenna 0



5.8G WIFI

Conducted Output Power

Conducted output power

Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	13.65	13.78	≤30	PASS
	157	13.51	13.64	≤30	PASS
	165	13.55	13.68	≤30	PASS
IEEE 802.11n_20	149	13.27	13.41	≤30	PASS
	157	13.20	13.33	≤30	PASS
	165	13.25	13.38	≤30	PASS
IEEE 802.11n_40	151	15.25	15.52	≤30	PASS
	159	15.14	15.41	≤30	PASS
IEEE 802.11ac_20	149	13.24	13.37	≤30	PASS
	157	13.08	13.22	≤30	PASS
	165	13.19	13.33	≤30	PASS
IEEE 802.11ac_40	151	15.19	15.46	≤30	PASS
	159	15.13	15.4	≤30	PASS
IEEE 802.11ac_80	155	14.59	15.13	≤30	PASS

Note: Corrected Value = Antenna Power + Duty Cycle Factor.

ISED EIRP

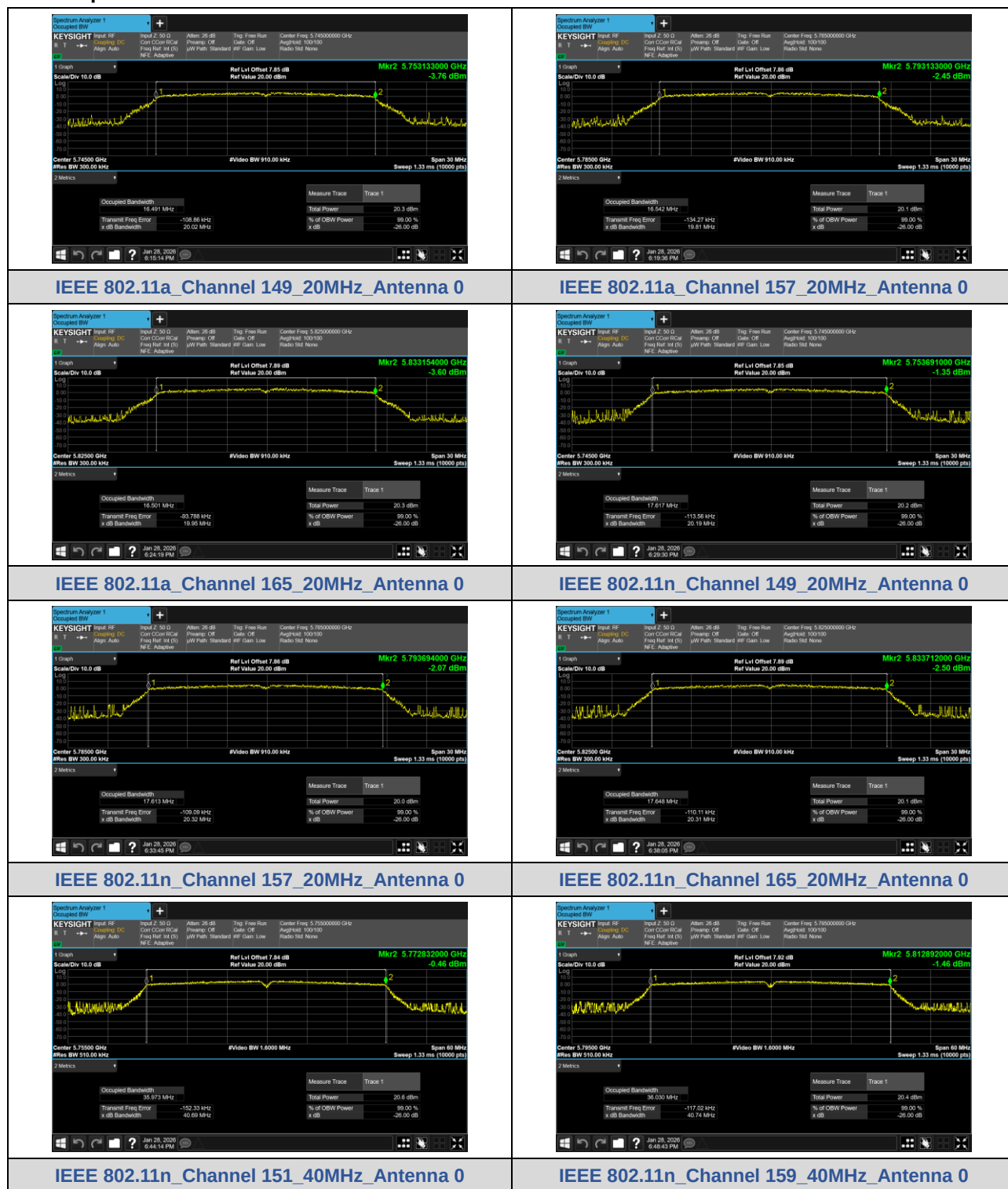
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	13.78	≤36.02	PASS
	157	13.64	≤36.02	PASS
	165	13.68	≤36.02	PASS
IEEE 802.11n_20	149	13.41	≤36.02	PASS
	157	13.33	≤36.02	PASS
	165	13.38	≤36.02	PASS
IEEE 802.11n_40	151	15.52	≤36.02	PASS
	159	15.41	≤36.02	PASS
IEEE 802.11ac_20	149	13.37	≤36.02	PASS
	157	13.22	≤36.02	PASS
	165	13.33	≤36.02	PASS
IEEE 802.11ac_40	151	15.46	≤36.02	PASS
	159	15.4	≤36.02	PASS
IEEE 802.11ac_80	155	15.13	≤36.02	PASS

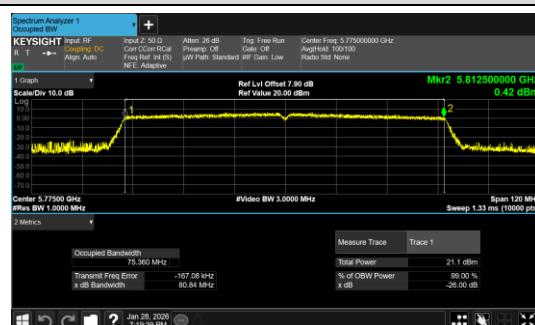
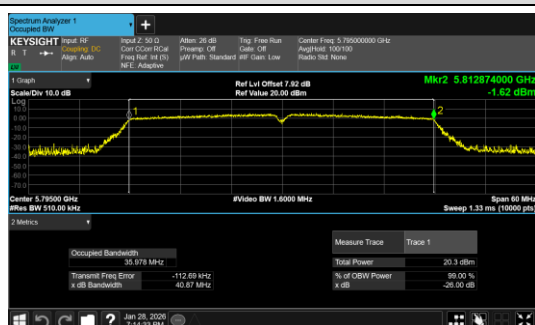
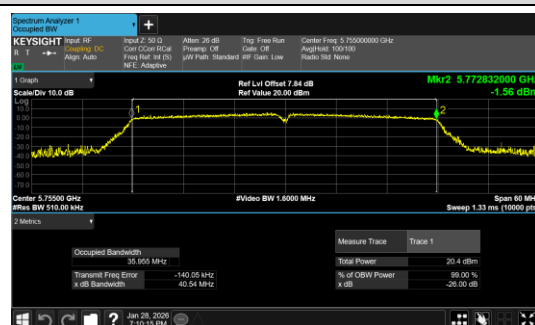
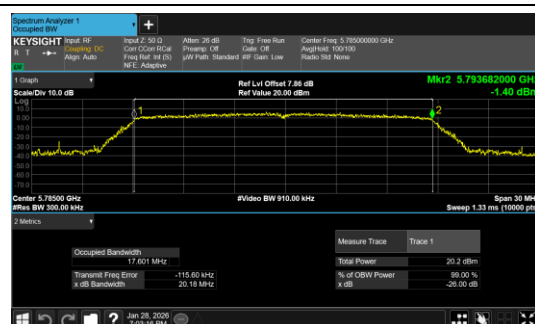
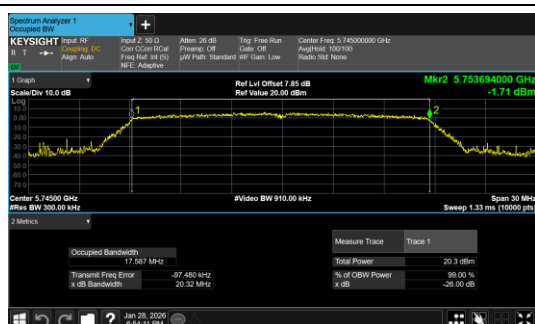
99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	16.491
	157		5785	16.542
	165		5825	16.501
IEEE 802.11n_20	149		5745	17.617
	157		5785	17.613
	165		5825	17.648
IEEE 802.11n_40	151		5755	35.973
	159		5795	36.030
IEEE 802.11ac_20	149		5745	17.587
	157		5785	17.601
	165		5825	17.594
IEEE 802.11ac_40	151		5755	35.955
	159		5795	35.978
IEEE 802.11ac_80	155		5775	75.360

Test Graphs



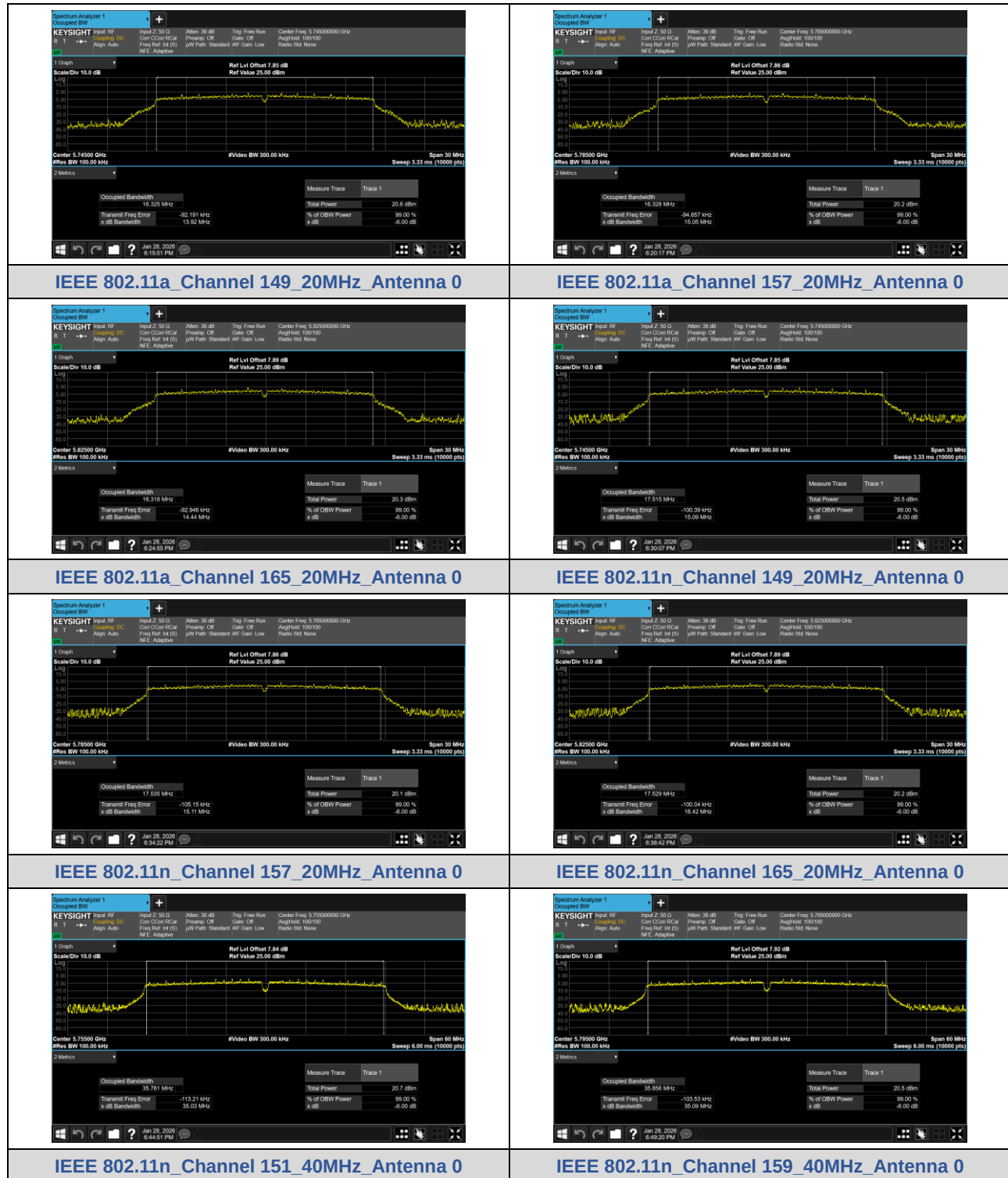


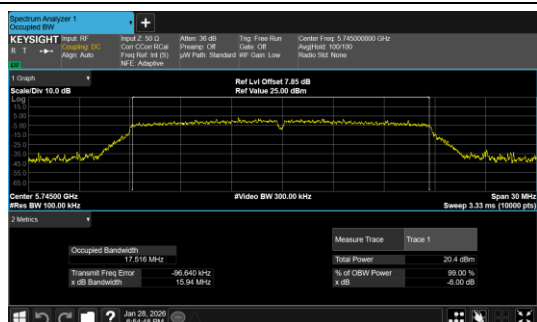
6dB Bandwidth

Test Result

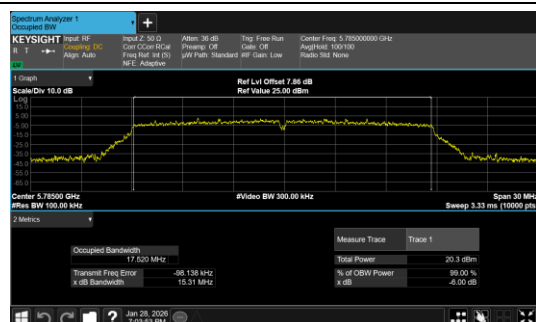
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	13.92	≥0.5	PASS
	157		5785	15.05		PASS
	165		5825	14.44		PASS
IEEE 802.11n_20	149		5745	15.09		PASS
	157		5785	15.11		PASS
	165		5825	16.42		PASS
IEEE 802.11n_40	151		5755	35.03		PASS
	159		5795	35.09		PASS
IEEE 802.11ac_20	149		5745	15.94		PASS
	157		5785	15.31		PASS
	165		5825	16.64		PASS
IEEE 802.11ac_40	151		5755	33.86		PASS
	159		5795	35.05		PASS
IEEE 802.11ac_80	155		5775	75.09		PASS

Test Graphs

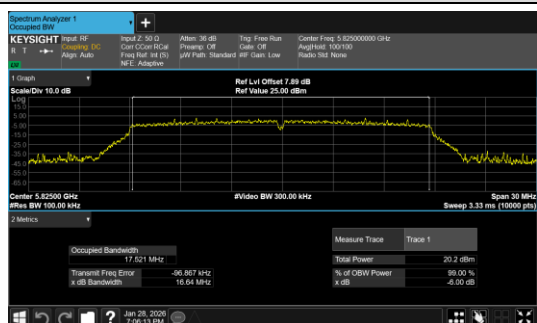




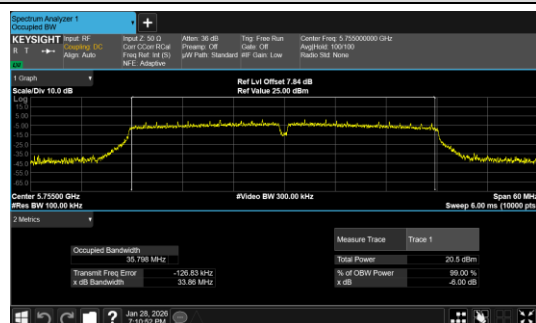
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



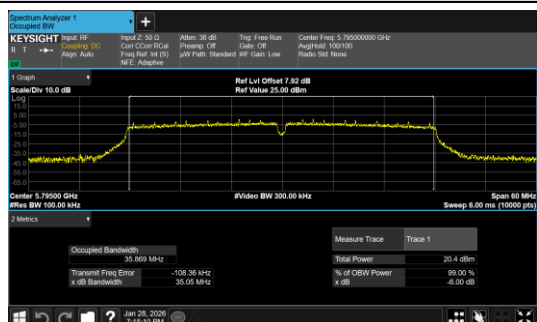
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



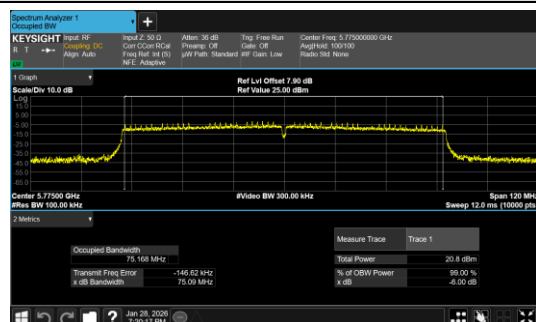
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

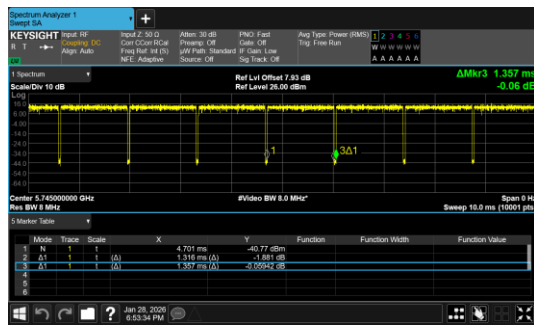
Duty Cycle

Test Result

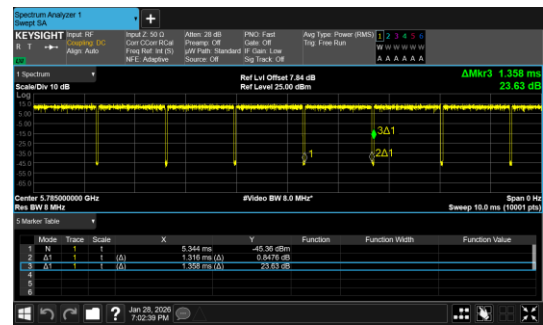
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.396	1.438	97.08	0.9708	0.1287	0.7163
		157		1.396	1.437	97.15	0.9715	0.1256	0.7163
		165		1.396	1.438	97.08	0.9708	0.1287	0.7163
IEEE 802.11n_20	149	1.303		1.346	96.84	0.9684	0.1395	0.7675	
	157	1.304		1.346	96.88	0.9688	0.1377	0.7669	
	165	1.303		1.345	96.89	0.9689	0.1372	0.7675	
IEEE 802.11n_40	151	0.650		0.693	93.84	0.9384	0.2761	1.5385	
	159	0.650		0.692	93.90	0.9390	0.2733	1.5385	
IEEE 802.11ac_20	MCS 0	149		1.316	1.357	96.98	0.9698	0.1332	0.7599
		157		1.316	1.358	96.91	0.9691	0.1363	0.7599
		165		1.316	1.358	96.91	0.9691	0.1363	0.7599
IEEE 802.11ac_40		151		0.654	0.696	93.94	0.9394	0.2715	1.5291
		159		0.654	0.697	93.88	0.9388	0.2743	1.5291
IEEE 802.11ac_80		155		0.325	0.369	88.26	0.8826	0.5424	3.0769

Test Graphs

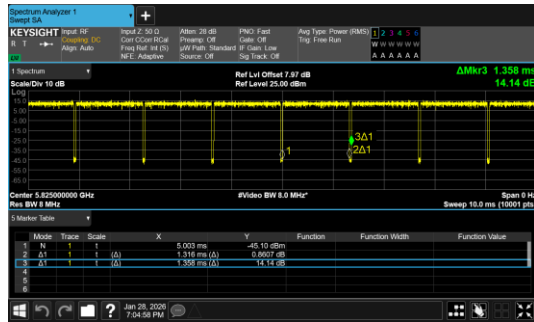




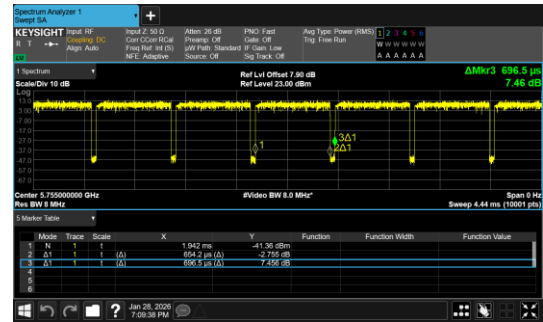
IEEE 802.11ac_20MHz_Channel 149



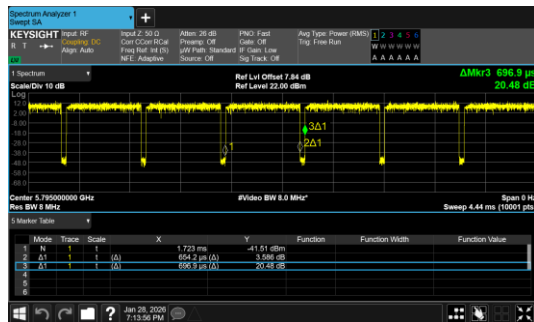
IEEE 802.11ac_20MHz_Channel 157



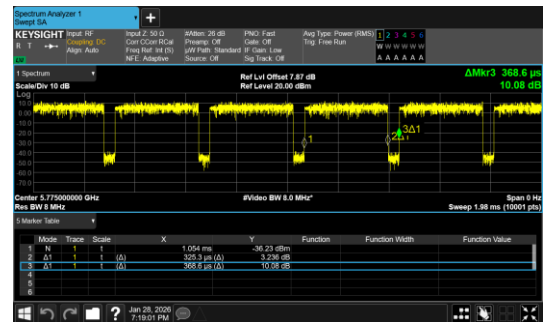
IEEE 802.11ac_20MHz_Channel 165



IEEE 802.11ac_40MHz_Channel 151



IEEE 802.11ac_40MHz_Channel 159



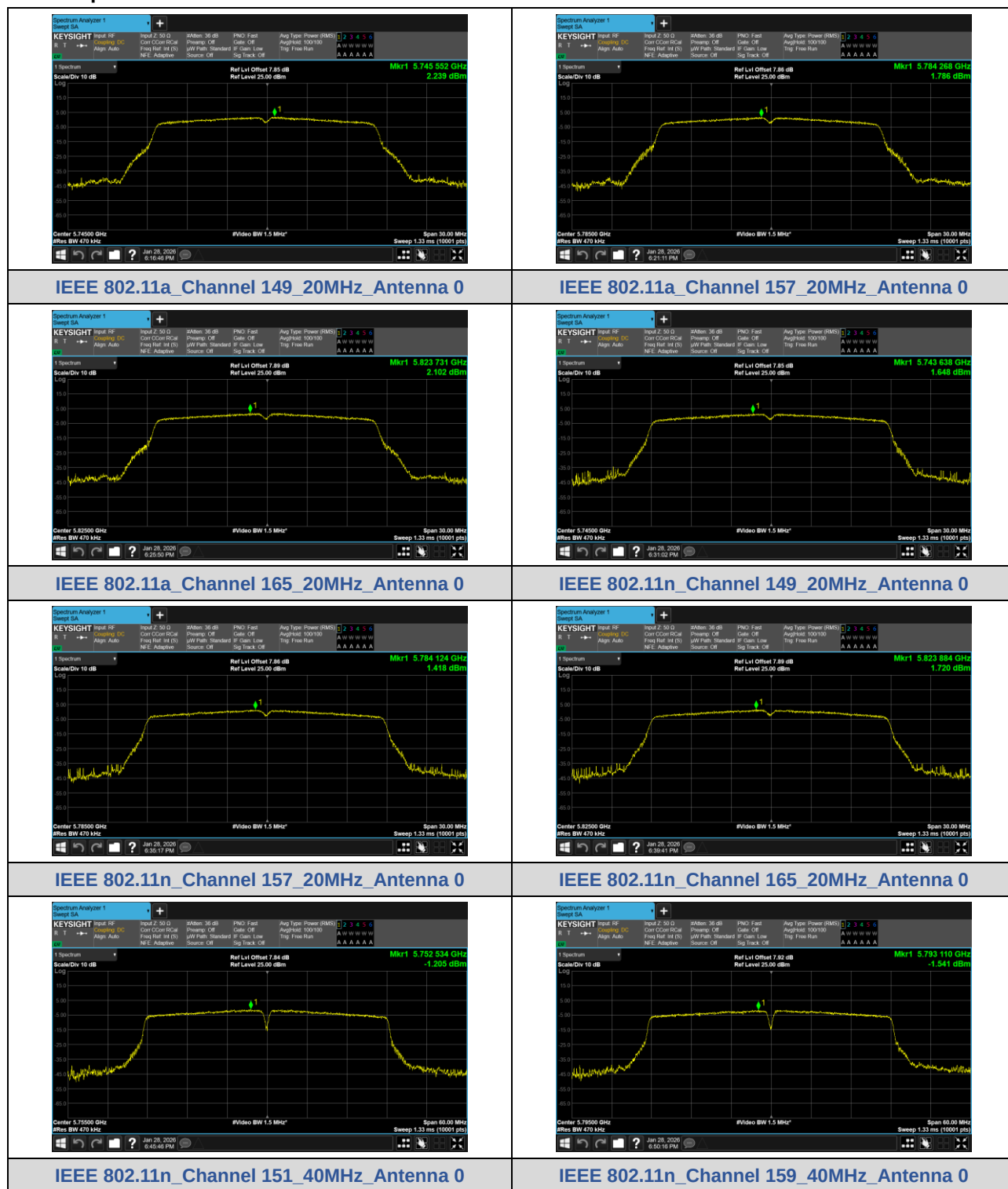
IEEE 802.11ac_80MHz_Channel 155

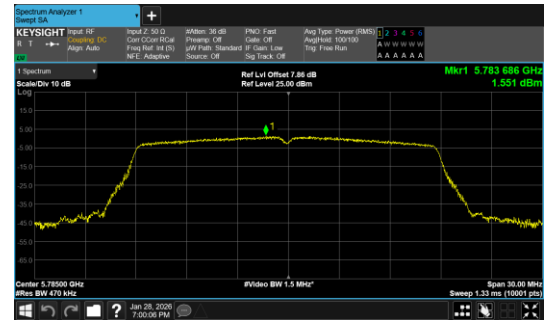
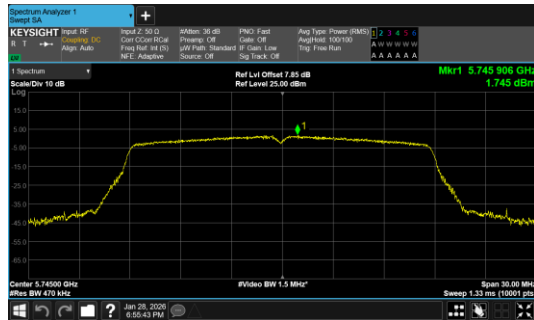
Power Spectral Density

Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/500kHz)	Ant. 0 Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
IEEE 802.11a	149	2.239	2.368	30	PASS
	157	1.786	1.915		PASS
	165	2.102	2.231		PASS
IEEE 802.11n_20	149	1.648	1.785		PASS
	157	1.418	1.555		PASS
	165	1.720	1.857		PASS
IEEE 802.11n_40	151	-1.205	-0.932		PASS
	159	-1.541	-1.268		PASS
IEEE 802.11ac_20	149	1.745	1.881		PASS
	157	1.551	1.687		PASS
	165	1.756	1.892		PASS
IEEE 802.11ac_40	151	-1.127	-0.853		PASS
	159	-1.428	-1.154		PASS
IEEE 802.11ac_80	155	-4.849	-4.307		PASS

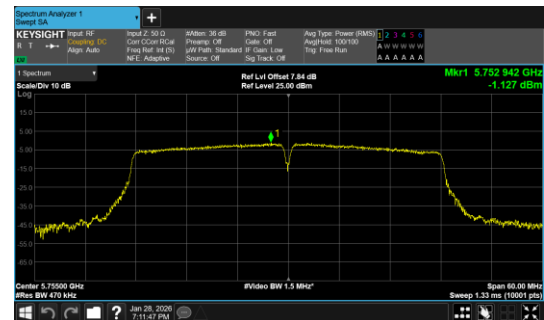
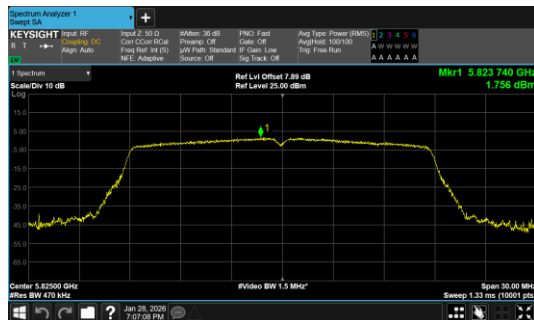
Test Graphs





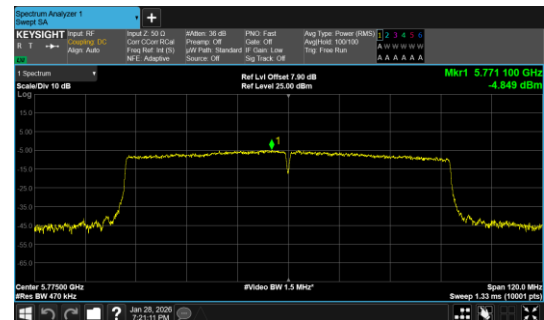
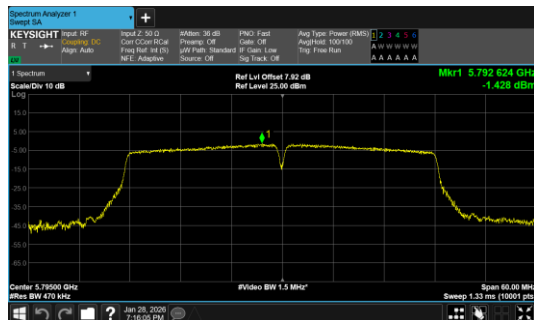
IEEE 802.11ac Channel 149 20MHz Antenna 0

IEEE 802.11ac Channel 157 20MHz Antenna 0



IEEE 802.11ac Channel 165 20MHz Antenna 0

IEEE 802.11ac Channel 151 40MHz Antenna 0



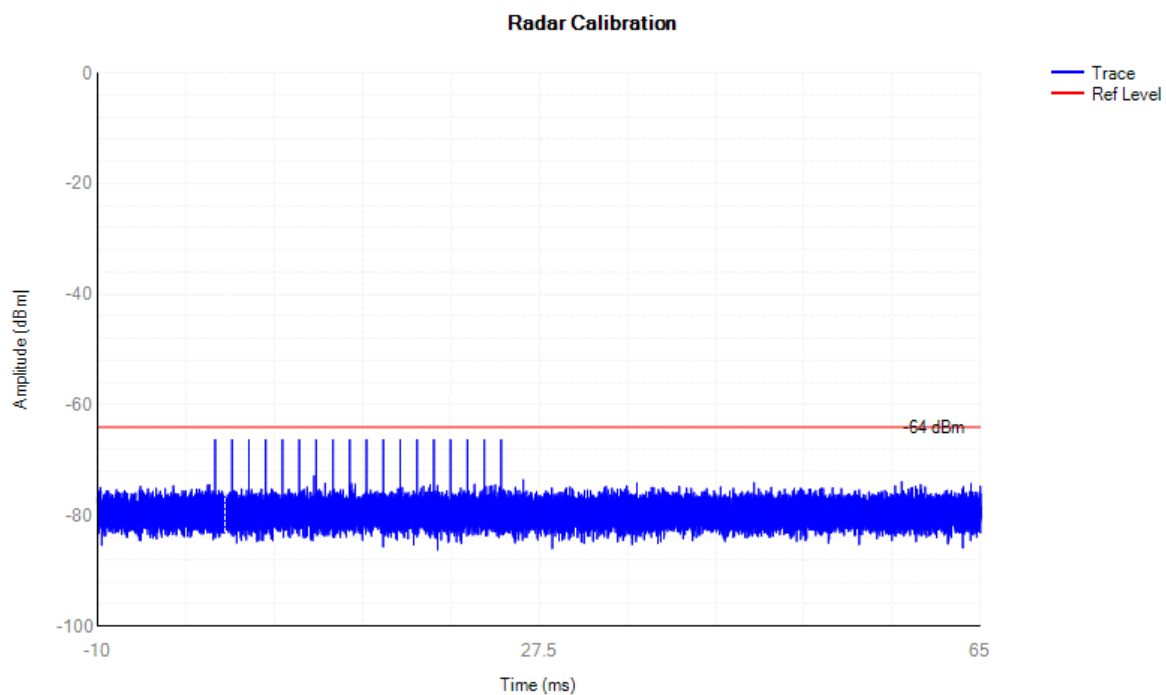
IEEE 802.11ac Channel 159 40MHz Antenna 0

IEEE 802.11ac Channel 155 80MHz Antenna 0

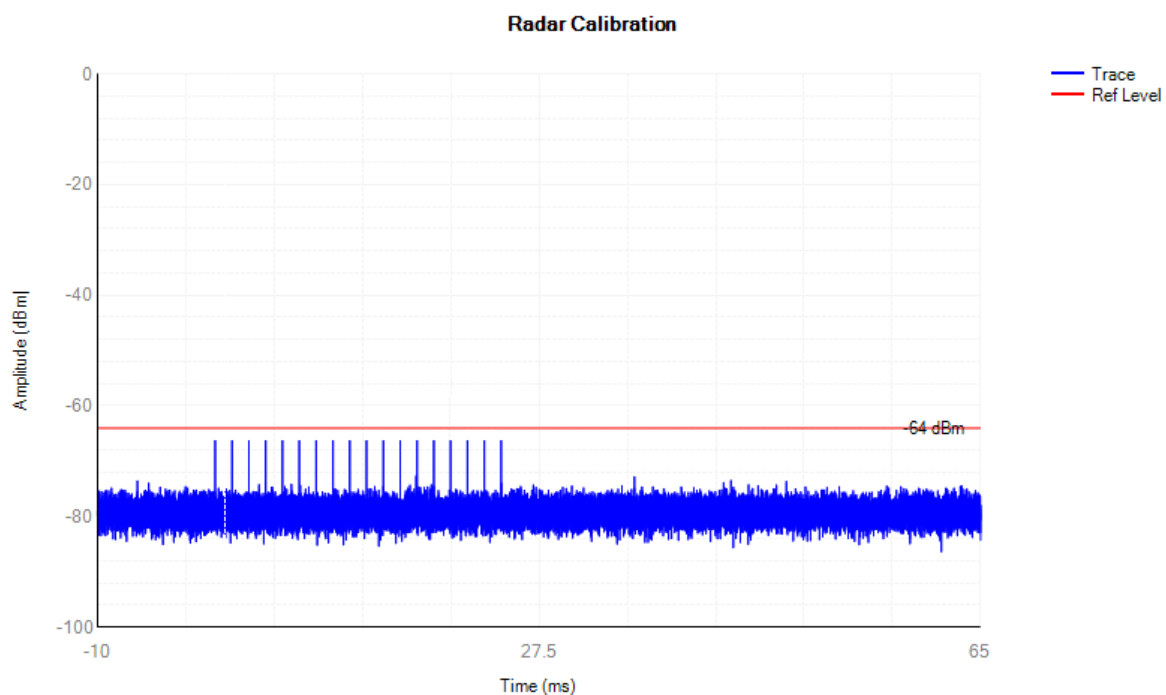
DFS

Calibration

5260MHz a DFS_FCC_T0

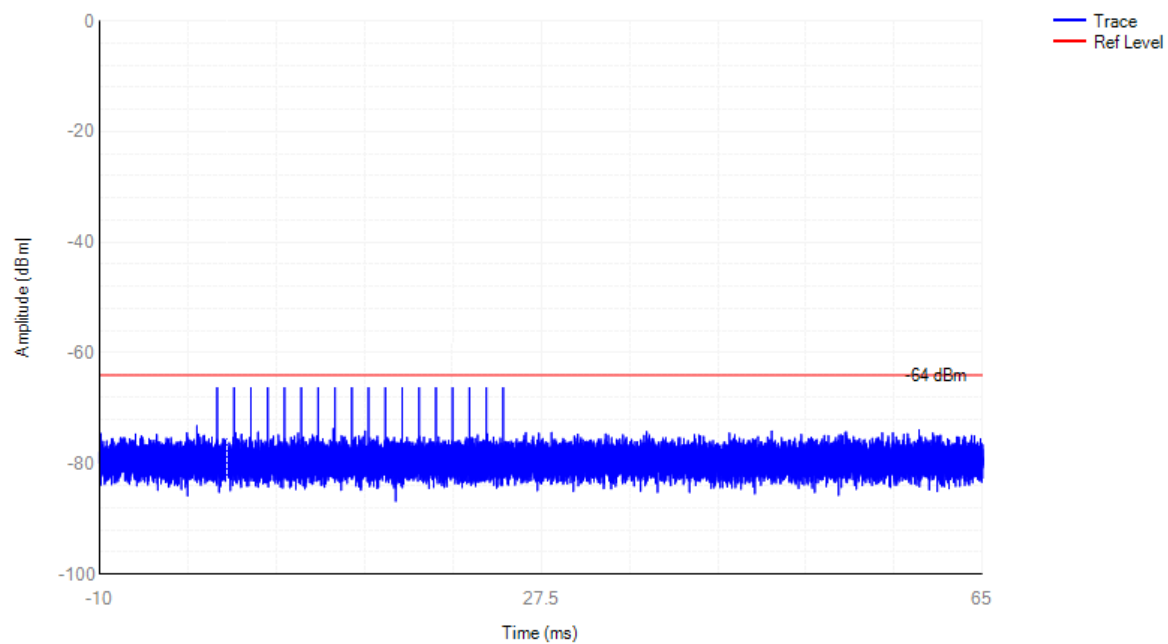


5500MHz a DFS_FCC_T0



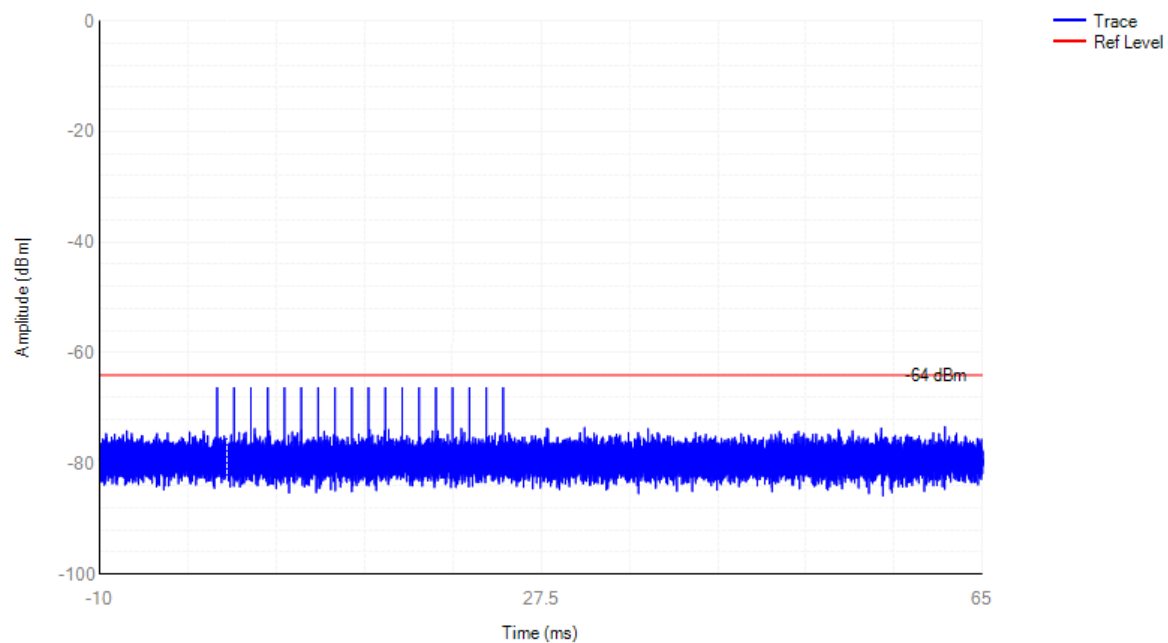
5270MHz n40 DFS_FCC_T0

Radar Calibration



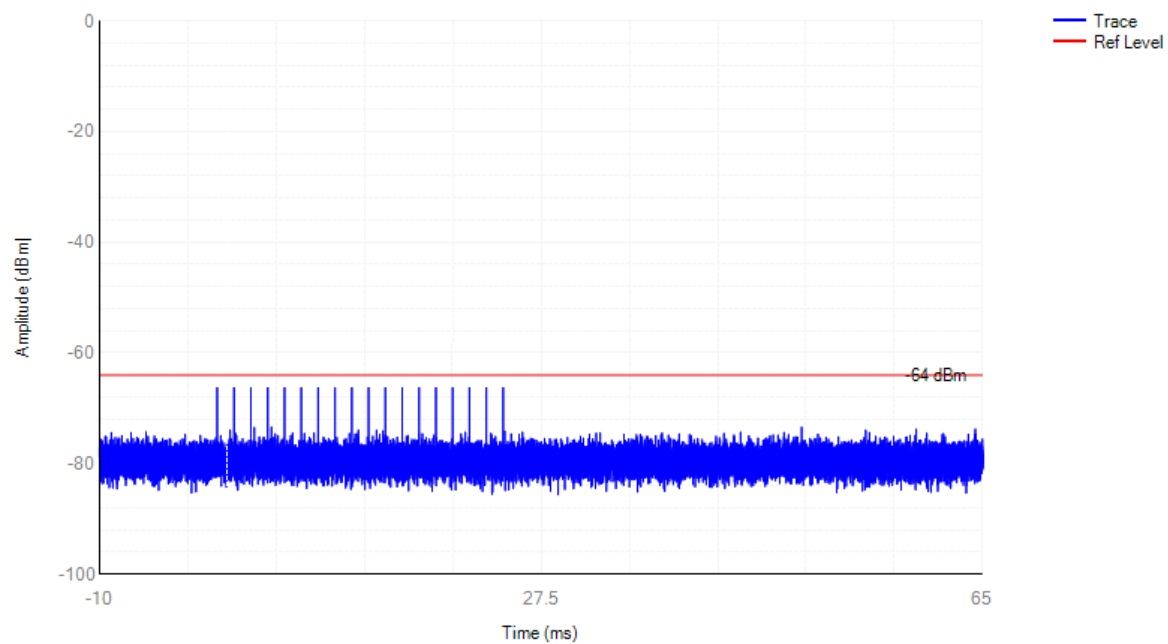
5510MHz n40 DFS_FCC_T0

Radar Calibration



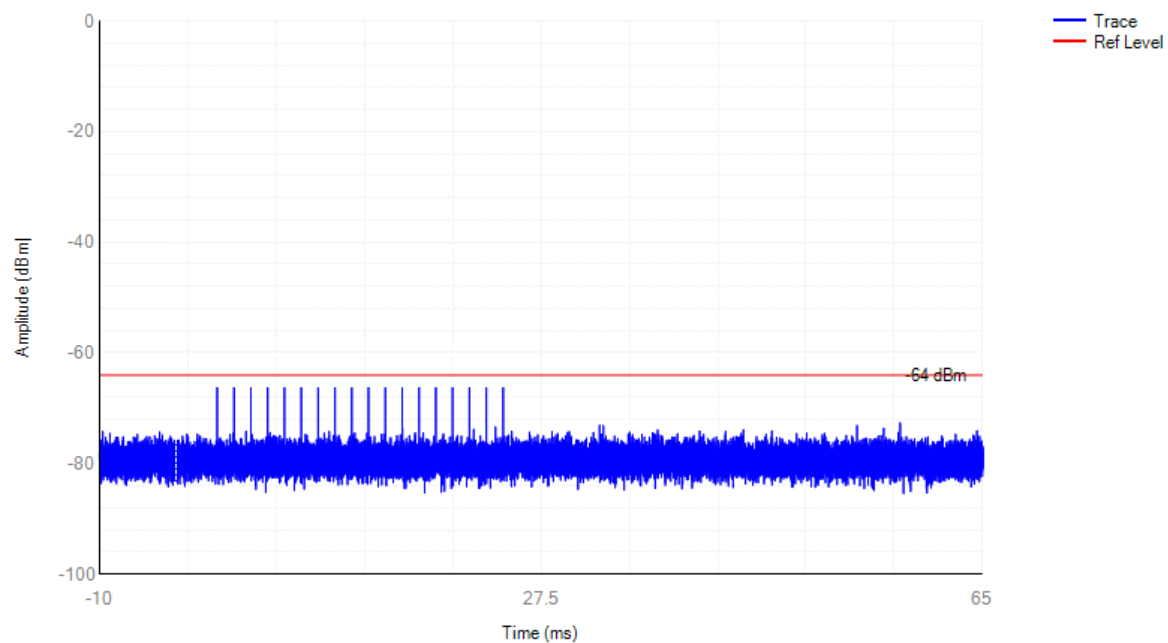
5290MHz ac80 DFS_FCC_T0

Radar Calibration



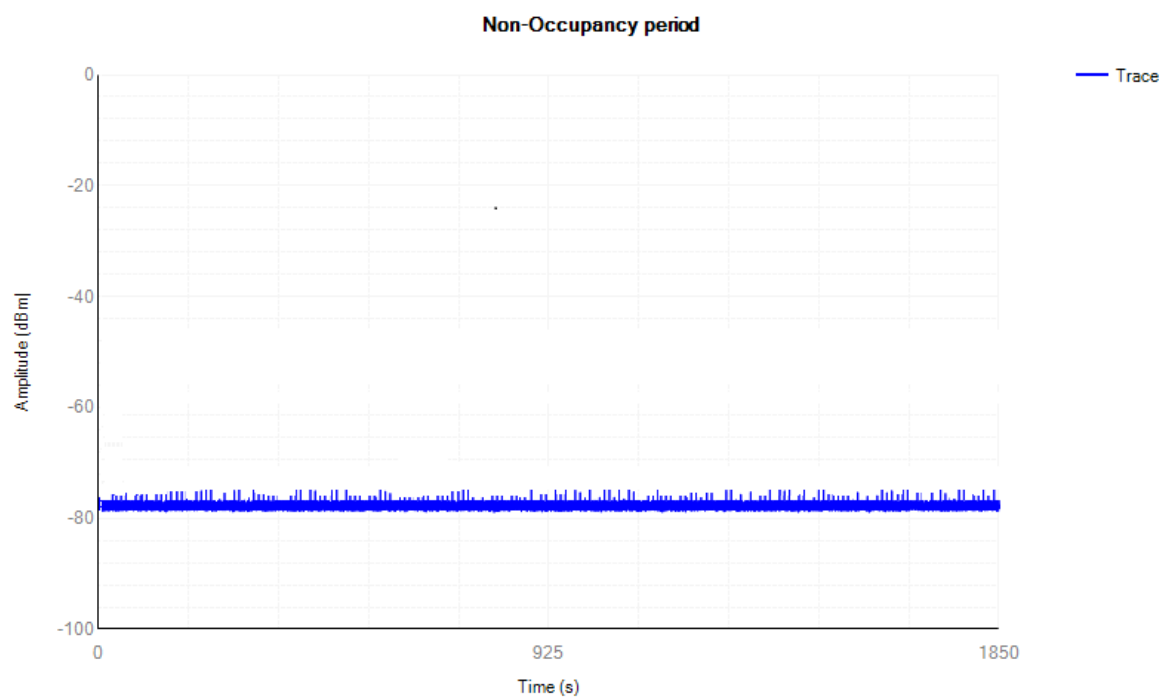
5530MHz ac80 DFS_FCC_T0

Radar Calibration

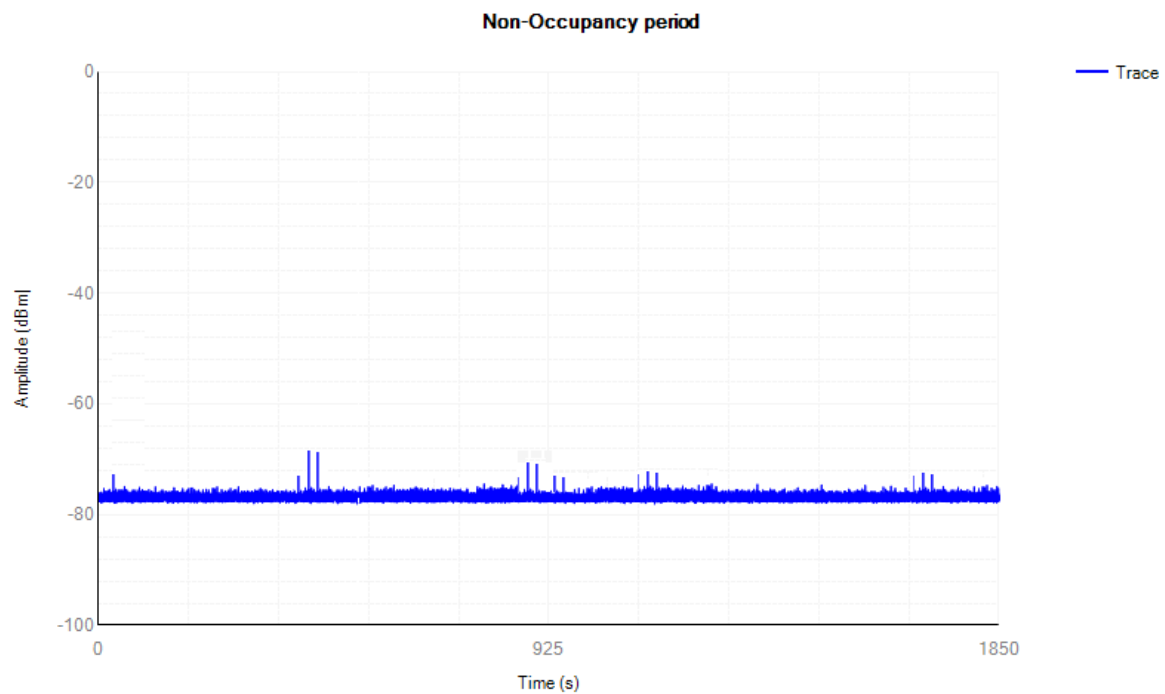


Non-Occupancy

5260MHz a Non-Occupancy

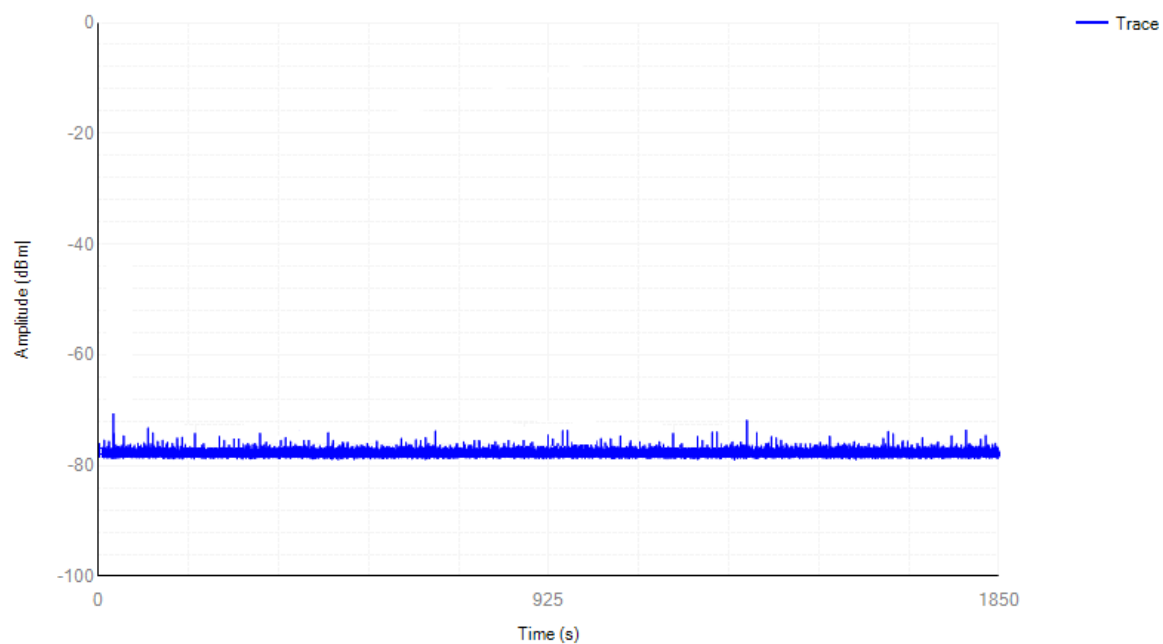


5500MHz a Non-Occupancy



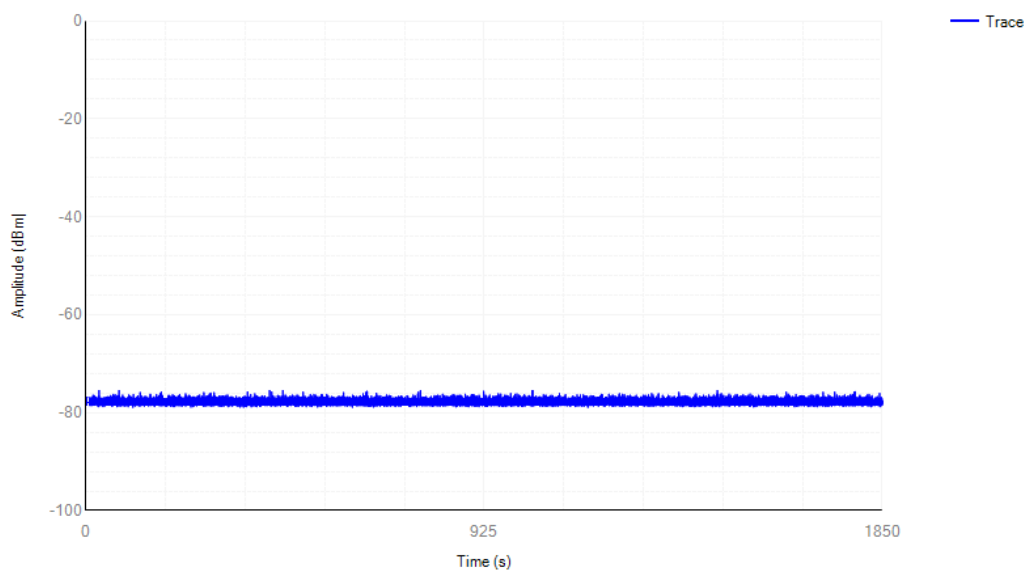
5270MHz n40 Non-Occupancy

Non-Occupancy period

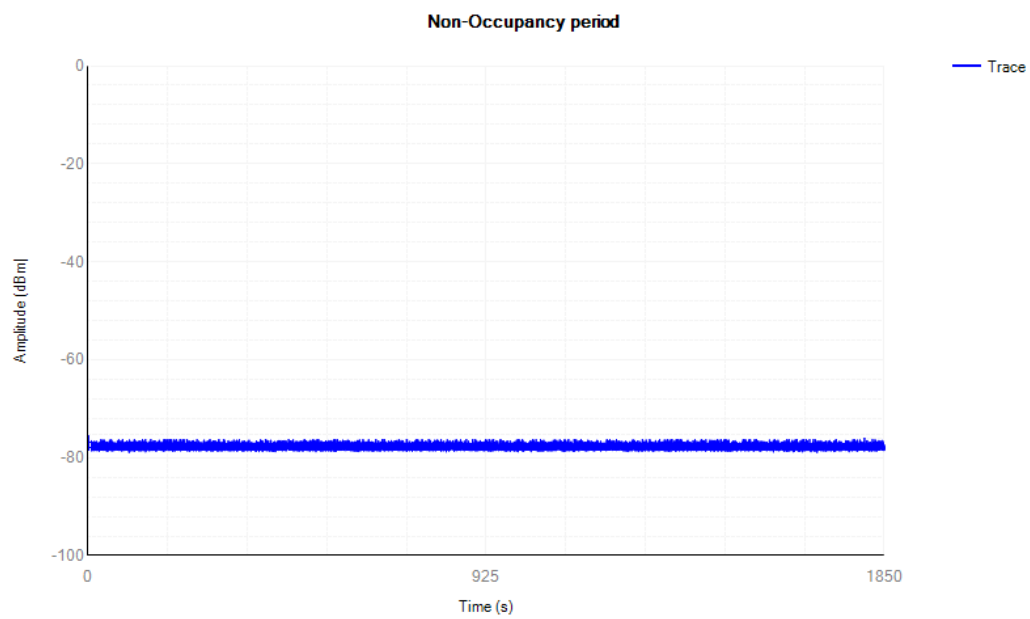


5510MHz n40 Non-Occupancy

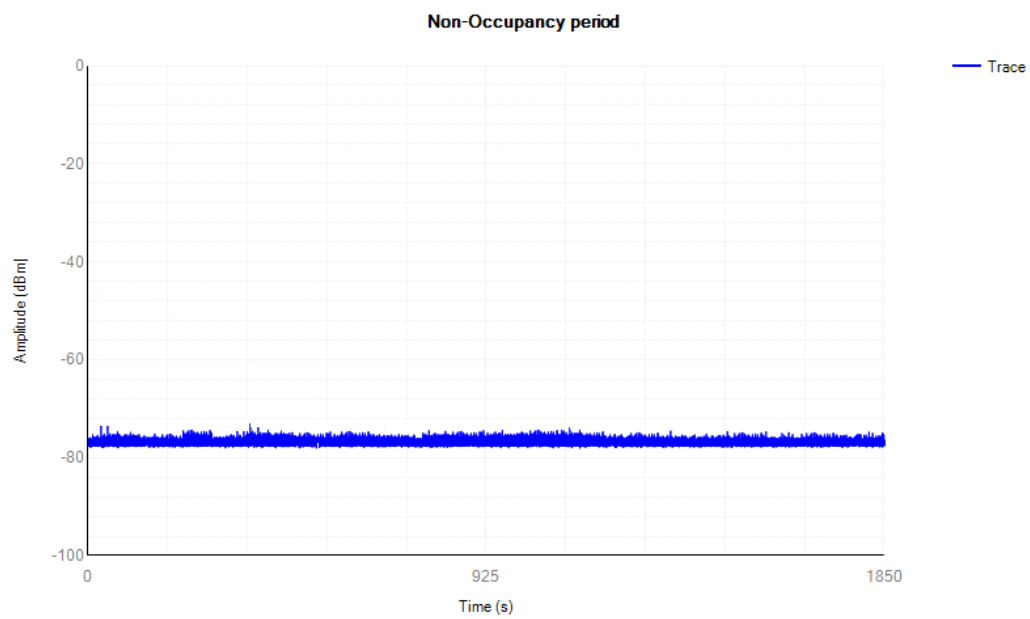
Non-Occupancy period



5290MHz ac80 Non-Occupancy



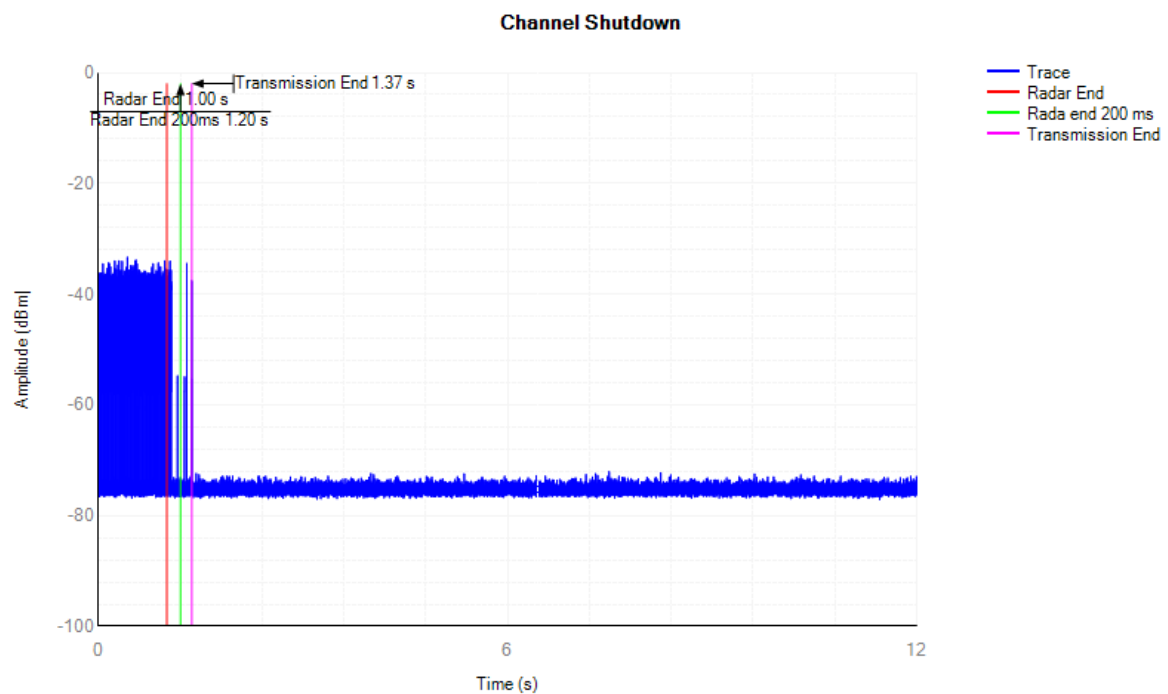
5530MHz ac80 Non-Occupancy



Shutdown Time

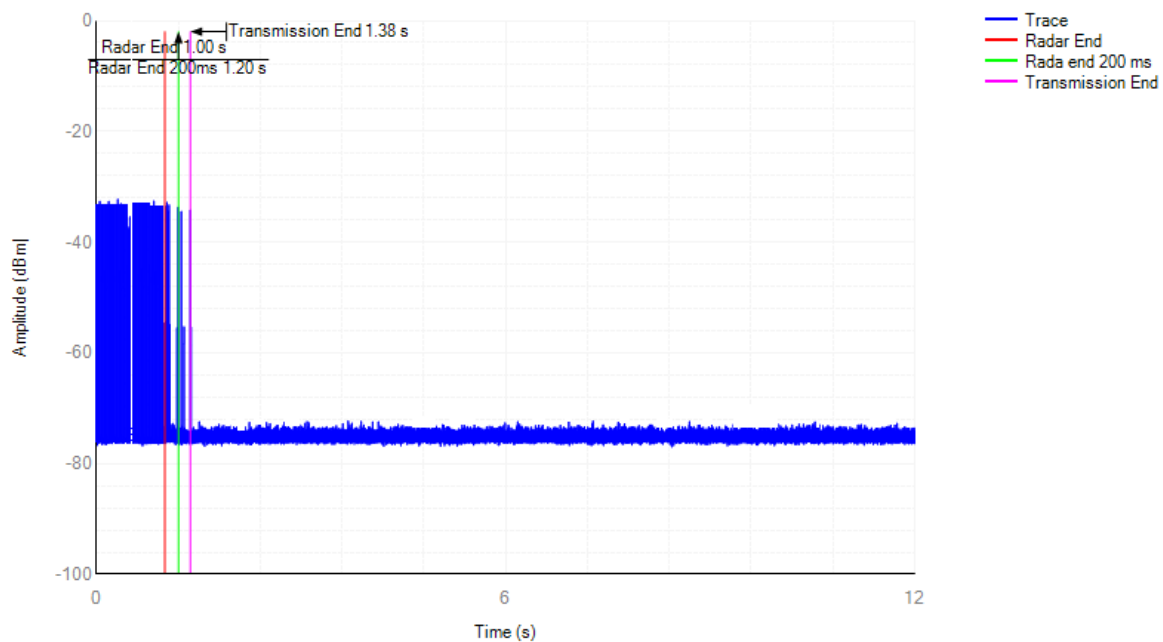
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5290	0.366	10	0.0096	0.26	0.0008	0.06	Pass
ac80	5530	0.3752	10	0.0052	0.26	0.0008	0.06	Pass
n40	5310	0.41	10	0.004	0.26	0.0024	0.06	Pass
n40	5510	0.4312	10	0.004	0.26	0.0024	0.06	Pass
a	5320	0.4284	10	0.0084	0.26	0.002	0.06	Pass
a	5500	0.4728	10	0.012	0.26	0.0036	0.06	Pass

5290MHz ac80 Shutdown



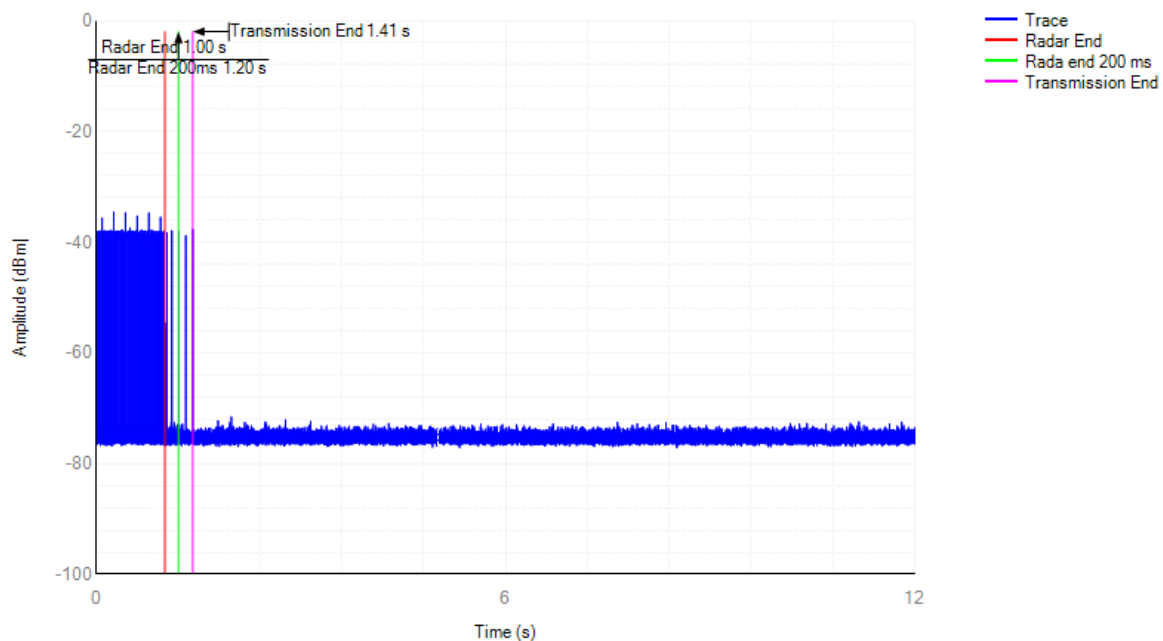
5530MHz ac80 Shutdown

Channel Shutdown



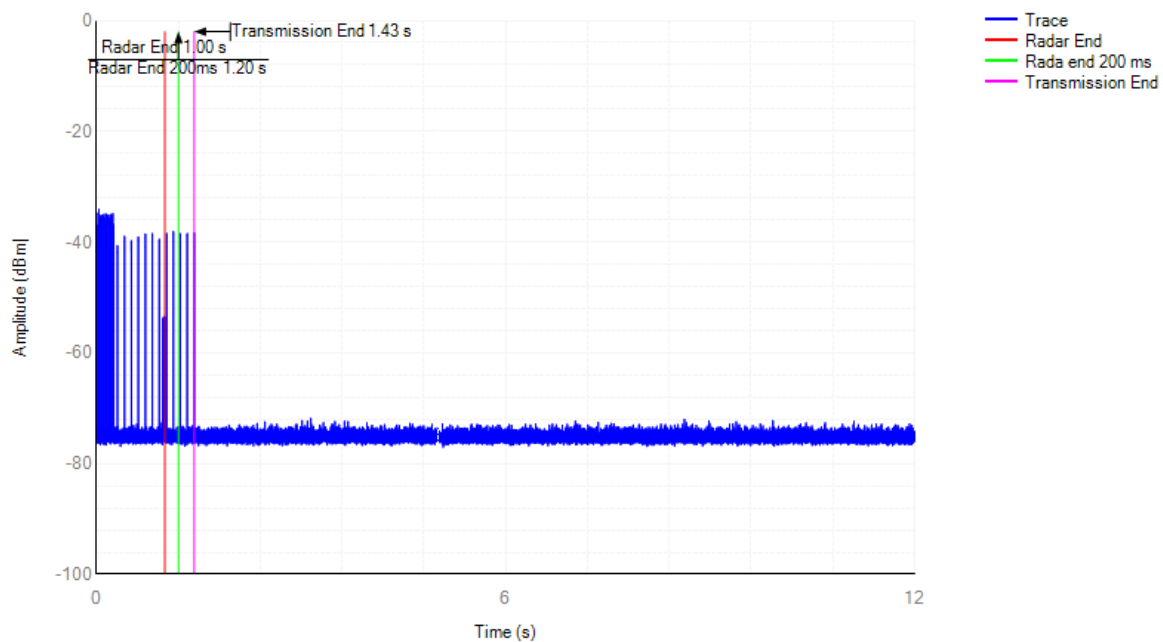
5310MHz n40 Shutdown

Channel Shutdown



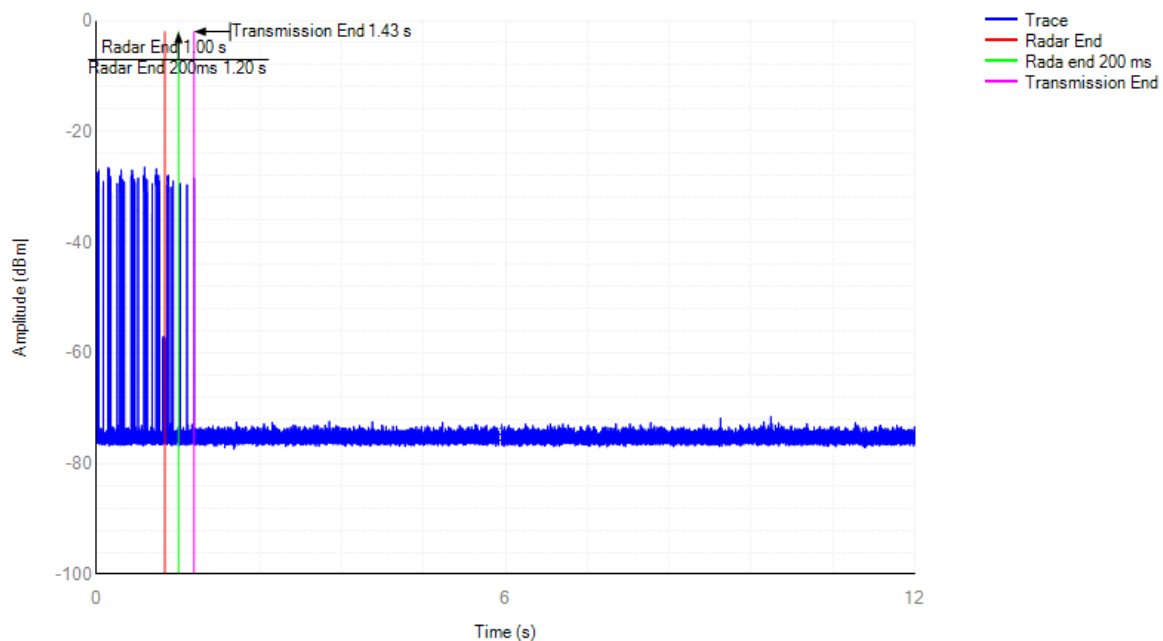
5510MHz n40 Shutdown

Channel Shutdown



5320MHz a Shutdown

Channel Shutdown



5500MHz a Shutdown

Channel Shutdown

