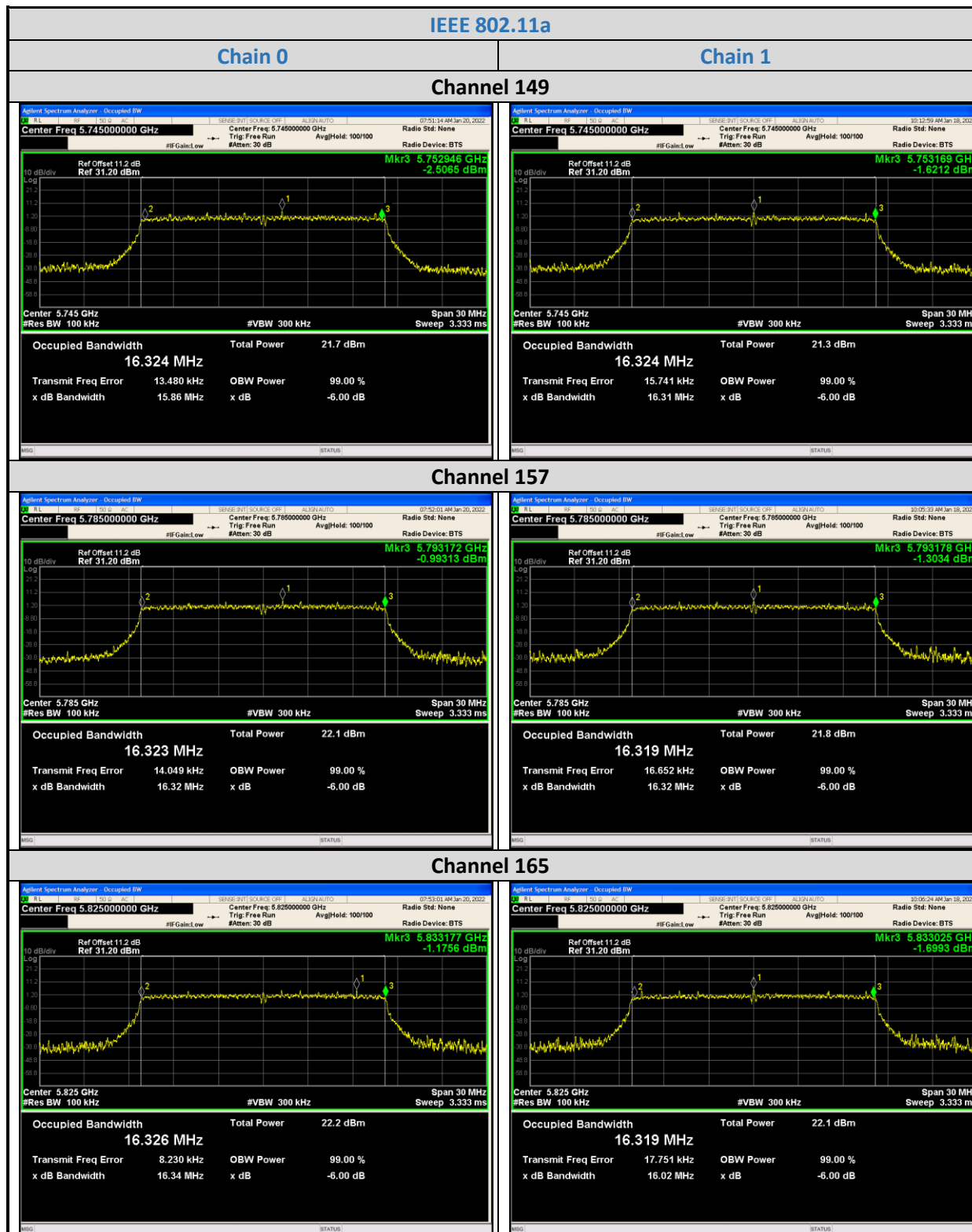
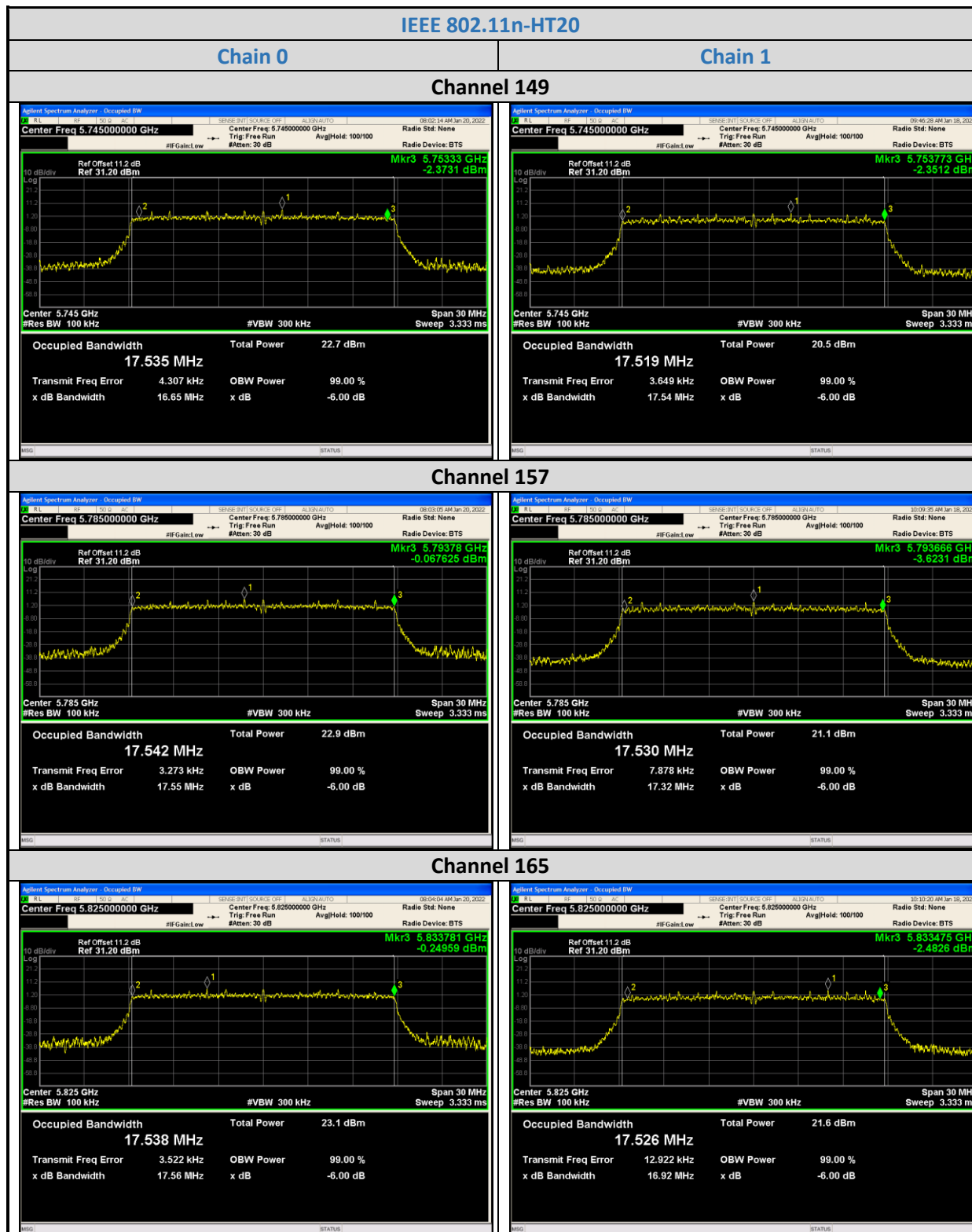
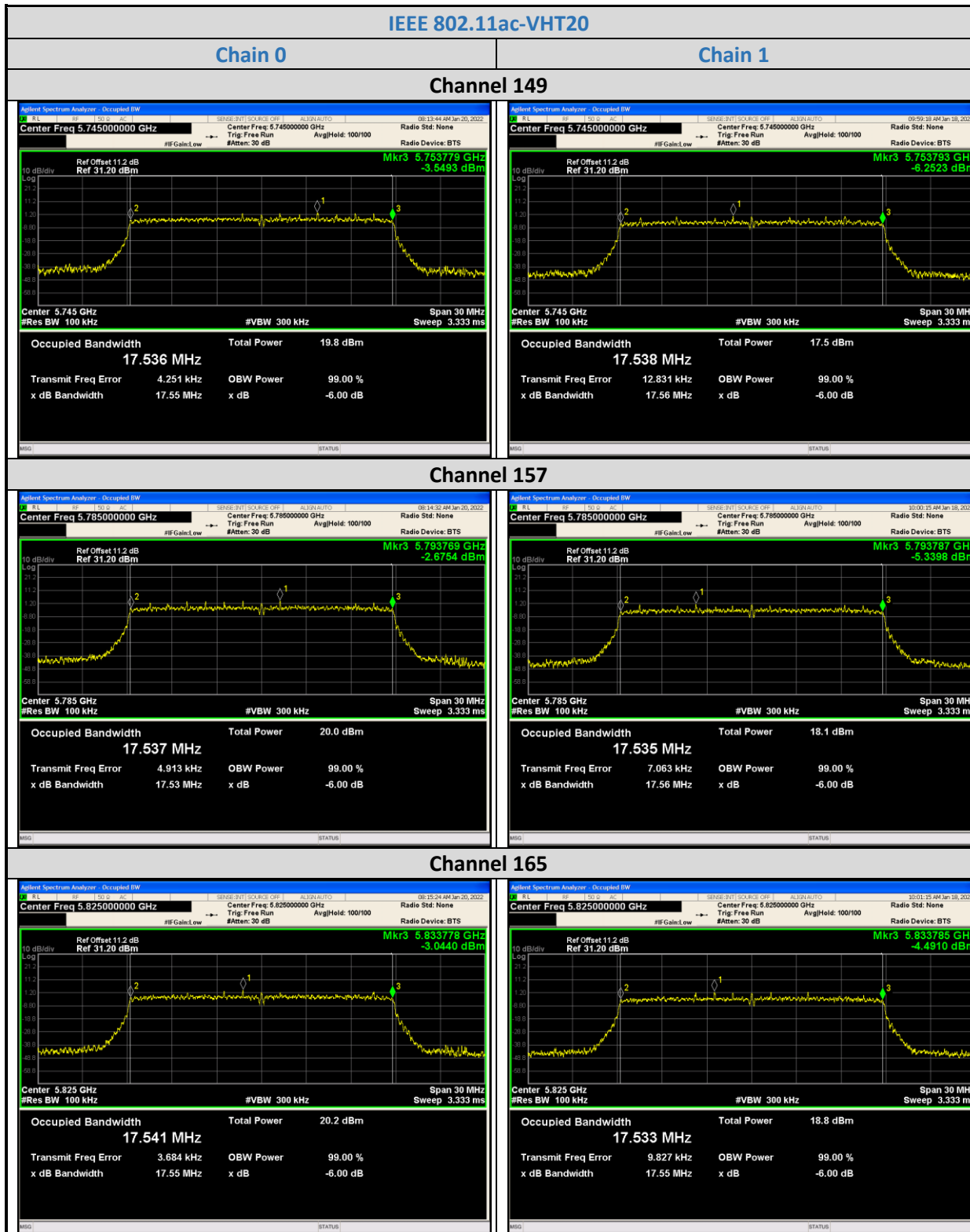
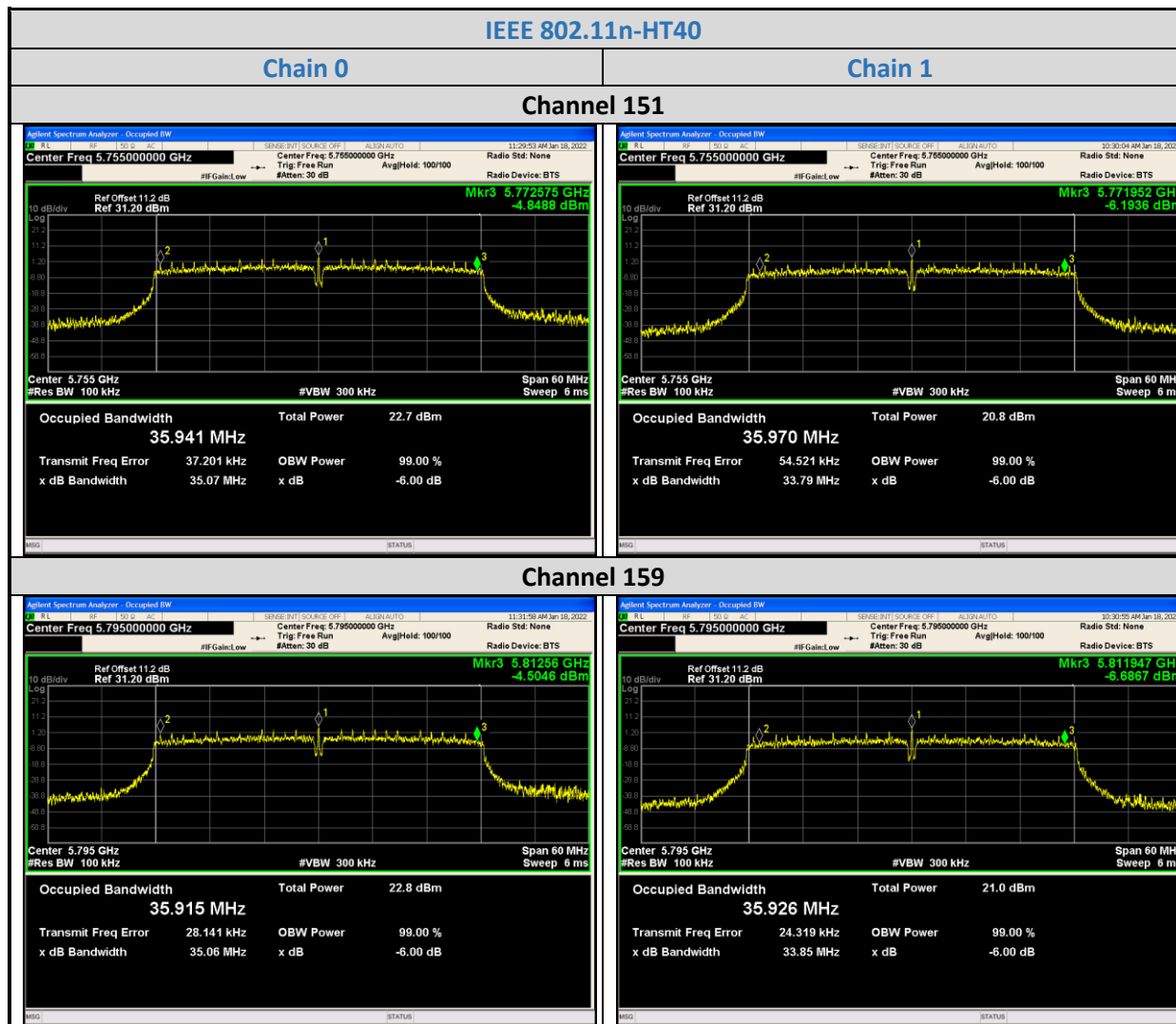
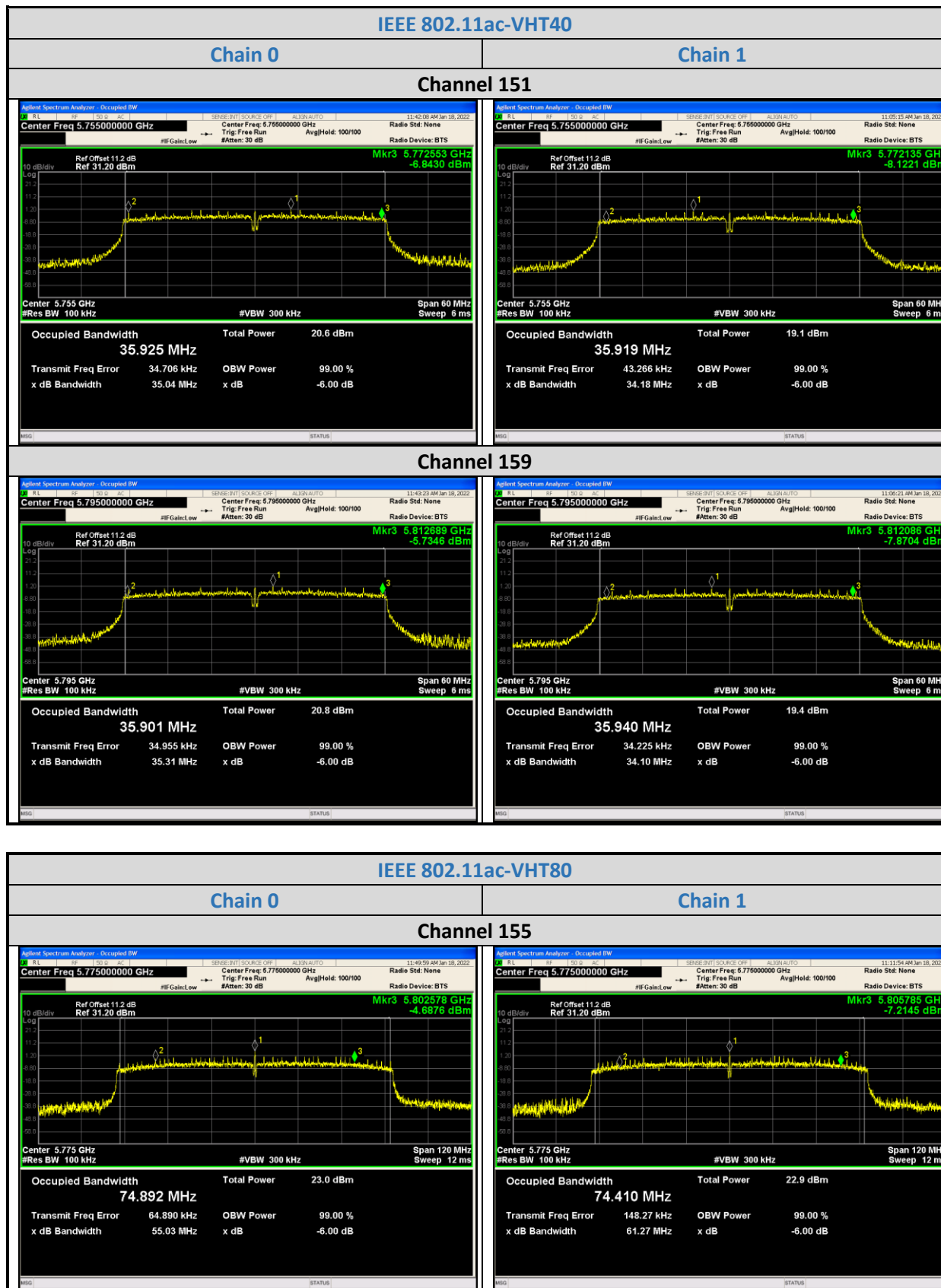












Appendix C

Test Results of Maximum conducted output power

Mode	Channel/ Frequency (MHz)	Antenna	Maximum Conducted Output Power (dBm)			
			SISO		Limits (dBm)	Pass/Fail
			Meas Power	Corr'd Power		
IEEE 802.11a	36 (5180)	Ant0	12.14	13.53	23.98	PASS
	36 (5180)	Ant1	12.16	13.55	23.53	PASS
	44 (5220)	Ant0	12.55	13.94	23.98	PASS
	44 (5220)	Ant1	12.41	13.80	23.53	PASS
	48 (5240)	Ant0	12.72	14.11	23.98	PASS
	48 (5240)	Ant1	12.63	14.02	23.53	PASS
	52 (5260)	Ant0	12.21	13.60	23.83	PASS
	52 (5260)	Ant1	12.09	13.48	23.50	PASS
	60 (5300)	Ant0	12.66	14.05	23.83	PASS
	60 (5300)	Ant1	12.53	13.92	23.50	PASS
	64 (5320)	Ant0	12.91	14.30	23.83	PASS
	64 (5320)	Ant1	12.85	14.24	23.50	PASS
	100 (5500)	Ant0	12.41	13.80	21.52	PASS
	100 (5500)	Ant1	13.13	14.52	22.72	PASS
	116 (5580)	Ant0	12.18	13.57	21.52	PASS
	116 (5580)	Ant1	12.41	13.80	22.72	PASS
	140 (5700)	Ant0	12.54	13.93	21.52	PASS
	140 (5700)	Ant1	12.13	13.52	22.72	PASS
	149 (5745)	Ant0	12.43	13.82	26.77	PASS
	149 (5745)	Ant1	11.57	12.96	30	PASS
	157 (5785)	Ant0	12.03	13.42	26.77	PASS
	157 (5785)	Ant1	12.08	13.47	30	PASS
	165 (5825)	Ant0	12.71	14.10	26.77	PASS
	165 (5825)	Ant1	12.63	14.02	30	PASS

Mode	Channel/ Frequency (MHz)	Maximum Conducted Output Power (dBm)						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		ant 0		ant 1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11n- HT20	36 (5180)	12.14	14.64	11.52	14.02	17.35	21.21	PASS
	44 (5220)	12.51	15.01	11.84	14.34	17.70	21.21	PASS
	48 (5240)	12.93	15.43	12.05	14.55	18.02	21.21	PASS
	52 (5260)	12.13	14.63	11.15	13.65	17.18	20.65	PASS
	60 (5300)	12.71	15.21	11.70	14.20	17.75	20.65	PASS
	64 (5320)	12.96	15.46	12.04	14.54	18.04	20.65	PASS
	100 (5500)	12.12	14.62	12.43	14.93	17.79	19.09	PASS
	116 (5580)	11.88	14.38	11.50	14.00	17.21	19.09	PASS

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	140 (5700)	12.18	14.68	11.45	13.95	17.34	19.09	PASS
	149 (5745)	11.91	14.41	10.51	13.01	16.78	25.47	PASS
	157 (5785)	12.18	14.68	10.02	12.52	16.75	25.47	PASS
	165 (5825)	12.57	15.07	10.72	13.22	17.26	25.47	PASS

Mode	Channel/ Frequency (MHz)	Maximum Conducted Output Power (dBm)						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		ant 0		ant 1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11n- HT40	38 (5190)	11.07	15.10	10.41	14.44	17.80	21.21	PASS
	46 (5230)	11.53	15.56	10.74	14.77	18.20	21.21	PASS
	54 (5270)	11.13	15.16	10.18	14.21	17.73	20.65	PASS
	62 (5310)	11.72	15.75	10.73	14.76	18.30	20.65	PASS
	102 (5510)	11.14	15.17	11.74	15.77	18.49	19.09	PASS
	110 (5550)	10.53	14.56	10.05	14.08	17.34	19.09	PASS
	134 (5670)	10.83	14.86	9.47	13.50	17.25	19.09	PASS
	151 (5755)	11.11	15.14	8.87	12.90	17.18	25.47	PASS
	159 (5795)	11.39	15.42	9.26	13.29	17.50	25.47	PASS

Mode	Channel/ Frequency (MHz)	Maximum Conducted Output Power (dBm)						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		ant 0		ant 1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT20	36 (5180)	10.13	11.60	9.85	11.32	14.47	21.21	PASS
	44 (5220)	10.71	12.18	10.01	11.48	14.86	21.21	PASS
	48 (5240)	10.78	12.25	10.12	11.59	14.94	21.21	PASS
	52 (5260)	10.23	11.70	9.22	10.69	14.24	20.65	PASS
	60 (5300)	10.67	12.14	9.71	11.18	14.70	20.65	PASS
	64 (5320)	10.90	12.37	9.84	11.31	14.88	20.65	PASS
	100 (5500)	10.15	11.62	10.28	11.75	14.70	19.09	PASS
	116 (5580)	10.04	11.51	9.91	11.38	14.46	19.09	PASS
	140 (5700)	10.42	11.89	9.52	10.99	14.48	19.09	PASS
	149 (5745)	10.32	11.79	8.90	10.37	14.15	25.47	PASS
	157 (5785)	10.10	11.57	8.35	9.82	13.79	25.47	PASS
	165 (5825)	10.71	12.18	9.19	10.66	14.50	25.47	PASS

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Mode	Channel/ Frequency (MHz)	Maximum Conducted Output Power (dBm)						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		ant 0		ant 1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT40	38 (5190)	10.15	12.71	9.41	11.97	15.37	21.21	PASS
	46 (5230)	10.61	13.17	9.66	12.22	15.73	21.21	PASS
	54 (5270)	10.04	12.60	9.04	11.60	15.14	20.65	PASS
	62 (5310)	10.83	13.39	9.54	12.10	15.80	20.65	PASS
	102 (5510)	10.22	12.78	10.32	12.88	15.84	19.09	PASS
	110 (5550)	9.70	12.26	9.24	11.80	15.05	19.09	PASS
	134 (5670)	10.20	12.76	8.52	11.08	15.01	19.09	PASS
	151 (5755)	10.21	12.77	8.44	11.00	14.99	25.47	PASS
	159 (5795)	10.64	13.20	9.21	11.77	15.56	25.47	PASS

Mode	Channel/ Frequency (MHz)	Maximum Conducted Output Power (dBm)						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		ant 0		ant 1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT80	42 (5210)	9.85	14.04	9.18	13.37	16.73	21.21	PASS
	58 (5290)	10.82	15.01	10.25	14.44	17.75	20.65	PASS
	106 (5530)	10.12	14.31	10.67	14.86	17.61	19.09	PASS
	122 (5610)	10.31	14.50	9.41	13.60	17.08	19.09	PASS
	155 (5775)	10.46	14.65	8.71	12.90	16.87	25.47	PASS

Remark:

- Corr'd Power = Meas Power + Duty Cycle Factor
- Total (ant 0+1) = $10 \cdot \log[(10^{\text{ant } 0/10}) + (10^{\text{ant } 1/10})]$

Appendix D

Test Results of Power spectrum density

Mode	Channel/ Frequency (MHz)	Antenna	Maximum Power Spectral Density			
			SISO		Limits (dBm)	Pass/Fail
			Meas Power	Corr'd Power		
IEEE 802.11a	36 (5180)	Ant0	-9.09	-7.7	11	PASS
	36 (5180)	Ant1	-10.37	-8.98	10.55	PASS
	44 (5220)	Ant0	-9.9	-8.51	11	PASS
	44 (5220)	Ant1	-8.92	-7.53	10.55	PASS
	48 (5240)	Ant0	-9.97	-8.58	11	PASS
	48 (5240)	Ant1	-8.46	-7.07	10.55	PASS
	52 (5260)	Ant0	-7.11	-5.72	10.85	PASS
	52 (5260)	Ant1	-8.36	-6.97	10.52	PASS
	60 (5300)	Ant0	-7.31	-5.92	10.85	PASS
	60 (5300)	Ant1	-9.84	-8.45	10.52	PASS
	64 (5320)	Ant0	-7.78	-6.39	10.85	PASS
	64 (5320)	Ant1	-9.06	-7.67	10.52	PASS
	100 (5500)	Ant0	-5.52	-4.13	8.54	PASS
	100 (5500)	Ant1	-5.78	-4.39	9.74	PASS
	116 (5580)	Ant0	-8.03	-6.64	8.54	PASS
	116 (5580)	Ant1	-6.63	-5.24	9.74	PASS
	140 (5700)	Ant0	-6.18	-4.79	8.54	PASS
	140 (5700)	Ant1	-7.76	-6.37	9.74	PASS
	149 (5745)	Ant0	-13.09	-11.7	26.77	PASS
	149 (5745)	Ant1	-9.86	-8.47	30	PASS
	157 (5785)	Ant0	-10.41	-9.02	26.77	PASS
	157 (5785)	Ant1	-10.54	-9.15	30	PASS
	165 (5825)	Ant0	-11.41	-10.02	26.77	PASS
	165 (5825)	Ant1	-9.67	-8.28	30	PASS

Mode	Channel/ Frequency (MHz)	Maximum Power Spectral Density						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		Ant0		Ant1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11n- HT20	36 (5180)	-16.45	-13.95	-16.37	-13.87	-10.90	8.23	PASS
	44 (5220)	-15.6	-13.1	-17.01	-14.51	-10.74	8.23	PASS
	48 (5240)	-14.79	-12.29	-17.74	-15.24	-10.51	8.23	PASS
	52 (5260)	-16.99	-14.49	-17.89	-15.39	-11.91	7.67	PASS
	60 (5300)	-14.32	-11.82	-15.18	-12.68	-9.22	7.67	PASS
	64 (5320)	-16.21	-13.71	-16.59	-14.09	-10.89	7.67	PASS
	100 (5500)	-17.46	-14.96	-15.51	-13.01	-10.87	6.11	PASS
	116 (5580)	-15.55	-13.05	-17.13	-14.63	-10.76	6.11	PASS
	140 (5700)	-15.48	-12.98	-16.69	-14.19	-10.53	6.11	PASS
	149 (5745)	-17.44	-14.94	-19.98	-17.48	-13.02	25.47	PASS
	157 (5785)	-18.58	-16.08	-19.31	-16.81	-13.42	25.47	PASS
	165 (5825)	-18.92	-16.42	-19.58	-17.08	-13.73	25.47	PASS

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Mode	Channel/ Frequency (MHz)	Maximum Power Spectral Density						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		Ant0		Ant1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11n- HT40	38 (5190)	-25.05	-21.02	-27.25	-23.22	-18.97	8.23	PASS
	46 (5230)	-26.5	-22.47	-26.51	-22.48	-19.46	8.23	PASS
	54 (5270)	-26.16	-22.13	-23.55	-19.52	-17.62	7.67	PASS
	62 (5310)	-26.68	-22.65	-24.35	-20.32	-18.32	7.67	PASS
	102 (5510)	-25.31	-21.28	-26.17	-22.14	-18.68	6.11	PASS
	110 (5550)	-26.06	-22.03	-27.29	-23.26	-19.59	6.11	PASS
	134 (5670)	-25.65	-21.62	-23.49	-19.46	-17.40	6.11	PASS
	151 (5755)	-28.42	-24.39	-25.89	-21.86	-19.93	25.47	PASS
	159 (5795)	-27.25	-23.22	-27.32	-23.29	-20.24	25.47	PASS

Mode	Channel/ Frequency (MHz)	Maximum Power Spectral Density						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		Ant0		Ant1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT20	36 (5180)	-11.87	-10.37	-13.15	-11.65	-7.95	8.23	PASS
	44 (5220)	-12.00	-10.5	-11.40	-9.9	-7.18	8.23	PASS
	48 (5240)	-9.65	-8.15	-12.28	-10.78	-6.26	8.23	PASS
	52 (5260)	-9.79	-8.29	-12.62	-11.12	-6.47	7.67	PASS
	60 (5300)	-12.29	-10.79	-11.6	-10.1	-7.42	7.67	PASS
	64 (5320)	-9.27	-7.77	-9.7	-8.2	-4.97	7.67	PASS
	100 (5500)	-10.31	-8.81	-10.76	-9.26	-6.02	6.11	PASS
	116 (5580)	-10.93	-9.43	-10.83	-9.33	-6.37	6.11	PASS
	140 (5700)	-13.02	-11.52	-13.07	-11.57	-8.53	6.11	PASS
	149 (5745)	-12.33	-10.83	-15.27	-13.77	-9.05	25.47	PASS
	157 (5785)	-13.44	-11.94	-15.71	-14.21	-9.92	25.47	PASS
	165 (5825)	-12.28	-10.78	-15.39	-13.89	-9.05	25.47	PASS

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Mode	Channel/ Frequency (MHz)	Maximum Power Spectral Density						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		Ant0		Ant1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT40	38 (5190)	-16.87	-14.31	-19.55	-16.99	-12.44	8.23	PASS
	46 (5230)	-18.73	-16.17	-17.69	-15.13	-12.61	8.23	PASS
	54 (5270)	-18.17	-15.61	-18.28	-15.72	-12.65	7.67	PASS
	62 (5310)	-18.7	-16.14	-20.14	-17.58	-13.79	7.67	PASS
	102 (5510)	-18.6	-16.04	-17.52	-14.96	-12.46	6.11	PASS
	110 (5550)	-20.24	-17.68	-20.28	-17.72	-14.69	6.11	PASS
	134 (5670)	-19.01	-16.45	-20.53	-17.97	-14.13	6.11	PASS
	151 (5755)	-21.97	-19.41	-22.95	-20.39	-16.86	25.47	PASS
	159 (5795)	-21.45	-18.89	-23.08	-20.52	-16.62	25.47	PASS

Mode	Channel/ Frequency (MHz)	Maximum Power Spectral Density						
		MIMO				Total Power MIMO_ Chain 0+1	Limits (dBm)	Pass/Fail
		Ant0		Ant1				
		Meas Power	Corr'd Power	Meas Power	Corr'd Power			
IEEE 802.11ac- VHT80	42 (5210)	-27.70	-23.51	-27.8	-23.61	-20.55	8.23	PASS
	58 (5290)	-28.59	-24.4	-27.52	-23.33	-20.82	7.67	PASS
	106 (5530)	-26.72	-22.53	-27.6	-23.41	-19.94	6.11	PASS
	122 (5610)	-26.03	-21.84	-27.58	-23.39	-19.54	6.11	PASS
	155 (5775)	-28.38	-24.19	-28.34	-24.15	-21.16	25.47	PASS

Remark:

- Corr'd PSD = Meas PSD + Duty Cycle Factor
- Total (ant 0+1) = $10 \cdot \log[(10^{\text{ant0}/10}) + (10^{\text{ant 1}/10})]$

The test plots as follows:

