

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	98.33%	0	Fig.1
802.11a	5180	98.20%	0	Fig.2
802.11n HT20	5180	98.11%	0	Fig.3
802.11n HT20	5180	98.22%	0	Fig.4
802.11ac VHT20	5180	98.09%	0	Fig.5
802.11ac VHT20	5180	98.15%	0	Fig.6
802.11n HT40	5190	96.97%	0.13	Fig.7
802.11n HT40	5190	97.15%	0.13	Fig.8
802.11ac VHT40	5190	97.15%	0.13	Fig.9
802.11ac VHT40	5190	97.09%	0.13	Fig.10
802.11ac VHT80	5210	95.76%	0.19	Fig.11
802.11ac VHT80	5210	95.86%	0.18	Fig.12

Note: Correction Factor=10*log (1/Duty Cycle)

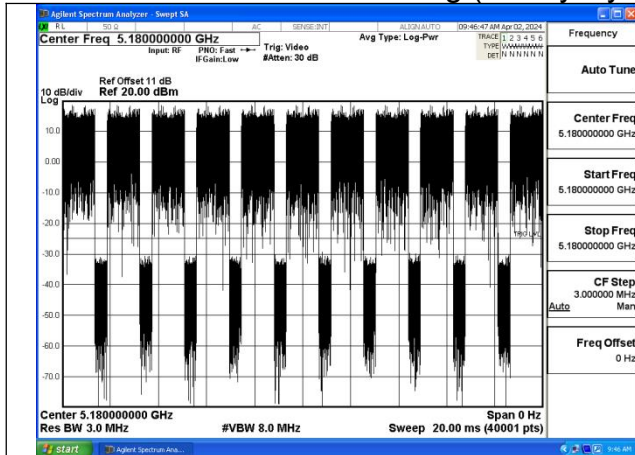


Fig.1

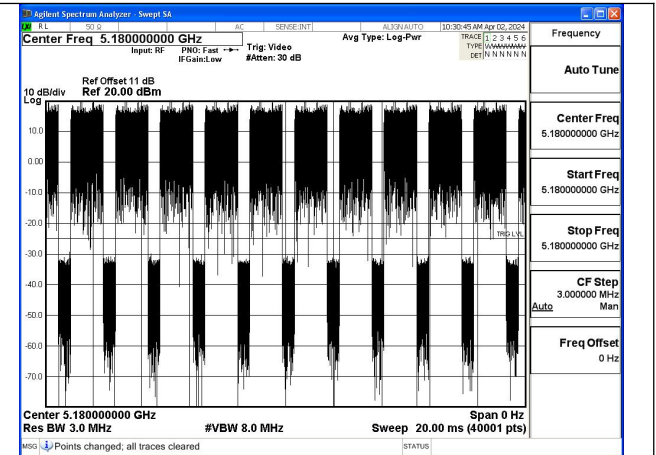


Fig.2

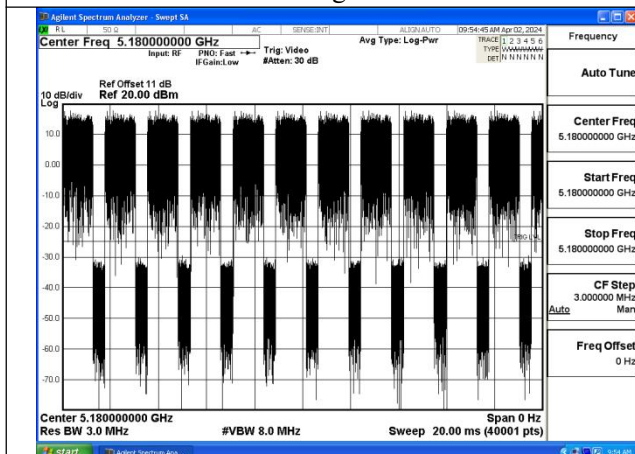


Fig.3

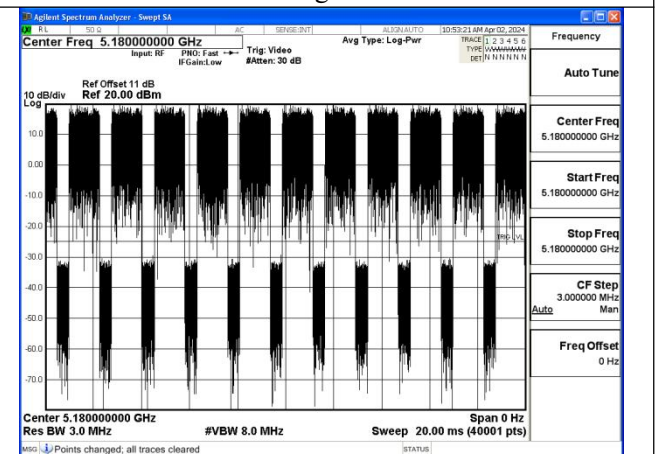


Fig.4

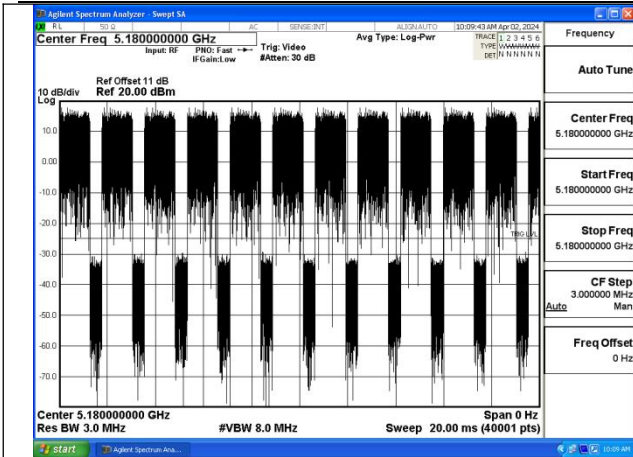


Fig.5

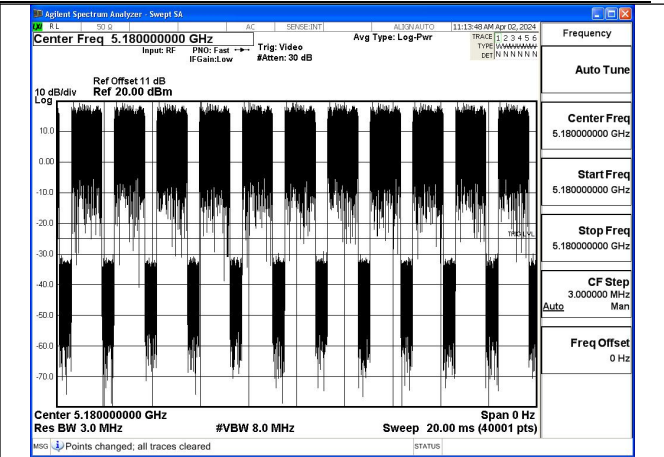


Fig.6

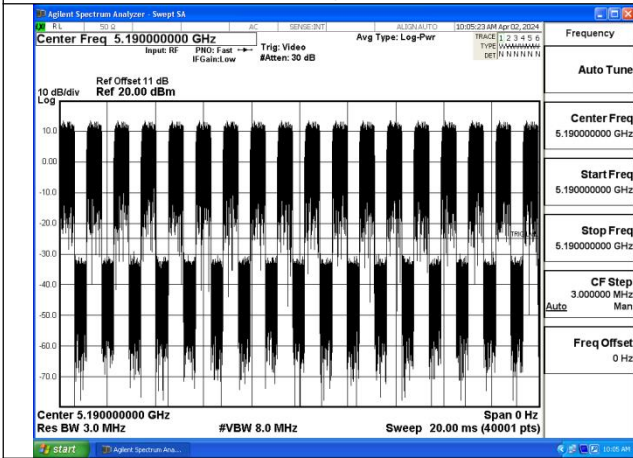


Fig.7

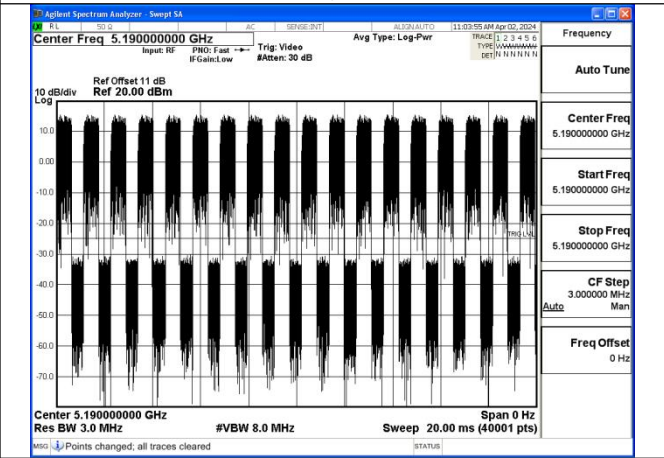


Fig.8

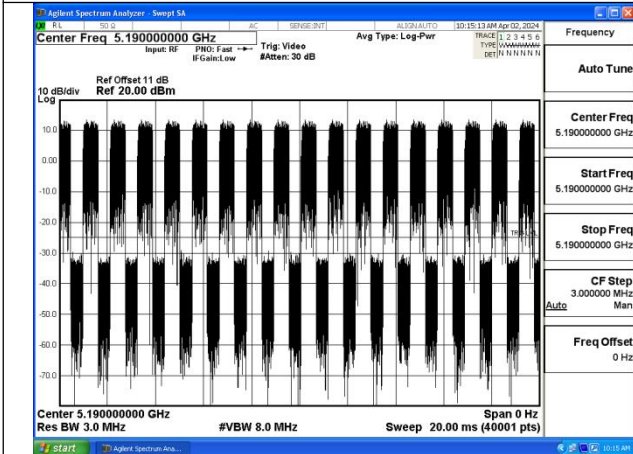


Fig.9

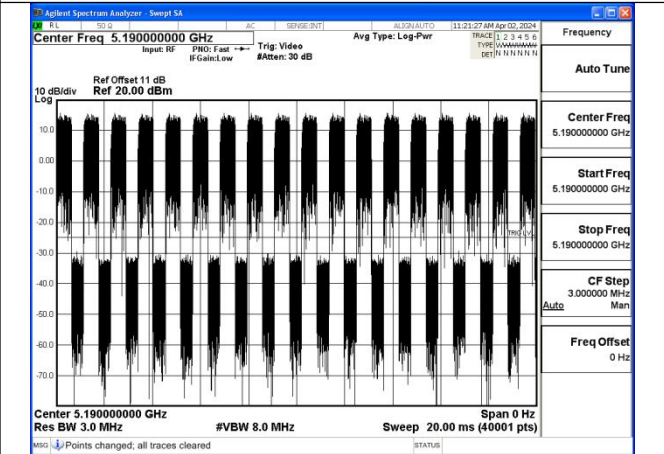


Fig.10

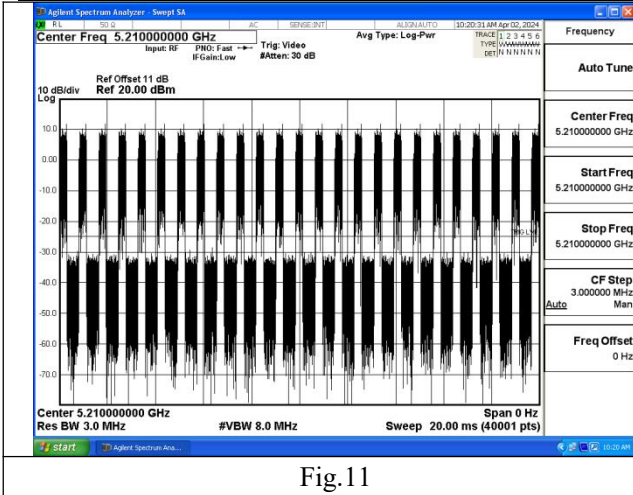


Fig.11

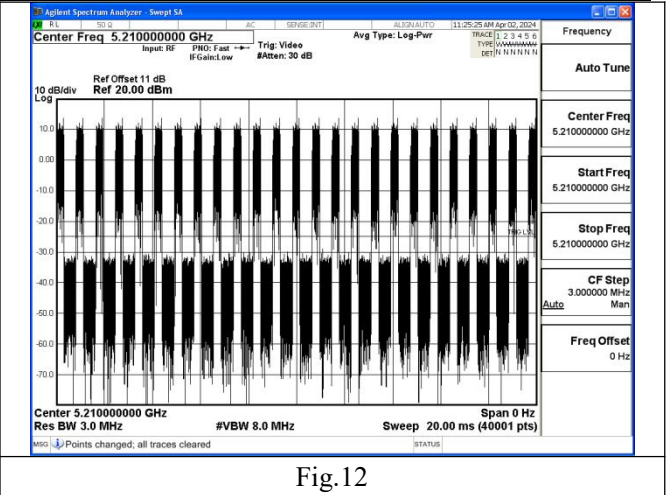


Fig.12

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	13.41	15.22
802.11a	NA	5180	Chain1	15.32	17.13
802.11a	NA	5220	Chain0	13.41	15.22
802.11a	NA	5220	Chain1	15.39	17.20
802.11a	NA	5240	Chain0	13.59	15.40
802.11a	NA	5240	Chain1	15.55	17.36
802.11n HT20	NA	5180	Chain0	13.21	15.02
802.11n HT20	NA	5180	Chain1	15.56	17.37
802.11n HT20	NA	5180	MIMO	17.55	19.36
802.11n HT20	NA	5220	Chain0	13.09	14.90
802.11n HT20	NA	5220	Chain1	15.44	17.25
802.11n HT20	NA	5220	MIMO	17.43	19.24
802.11n HT20	NA	5240	Chain0	13.46	15.27
802.11n HT20	NA	5240	Chain1	14.70	16.51
802.11n HT20	NA	5240	MIMO	17.13	18.94
802.11ac VHT20	NA	5180	Chain0	13.43	15.24
802.11ac VHT20	NA	5180	Chain1	15.18	16.99
802.11ac VHT20	NA	5180	MIMO	17.40	19.21
802.11ac VHT20	NA	5220	Chain0	13.61	15.42
802.11ac VHT20	NA	5220	Chain1	14.46	16.27
802.11ac VHT20	NA	5220	MIMO	17.07	18.88
802.11ac VHT20	NA	5240	Chain0	13.65	15.46
802.11ac VHT20	NA	5240	Chain1	15.13	16.94
802.11ac VHT20	NA	5240	MIMO	17.46	19.27
802.11n HT40	NA	5190	Chain0	12.31	14.12
802.11n HT40	NA	5190	Chain1	13.92	15.73
802.11n HT40	NA	5190	MIMO	16.20	18.01
802.11n HT40	NA	5230	Chain0	12.82	14.63
802.11n HT40	NA	5230	Chain1	14.51	16.32
802.11n HT40	NA	5230	MIMO	16.76	18.57
802.11ac VHT40	NA	5190	Chain0	12.57	14.38
802.11ac VHT40	NA	5190	Chain1	13.87	15.68
802.11ac VHT40	NA	5190	MIMO	16.28	18.09
802.11ac VHT40	NA	5230	Chain0	12.56	14.37
802.11ac VHT40	NA	5230	Chain1	14.23	16.04
802.11ac VHT40	NA	5230	MIMO	16.49	18.30
802.11ac VHT80	NA	5210	Chain0	12.98	14.79
802.11ac VHT80	NA	5210	Chain1	12.73	14.54
802.11ac VHT80	NA	5210	MIMO	15.87	17.68

Emission Bandwidth

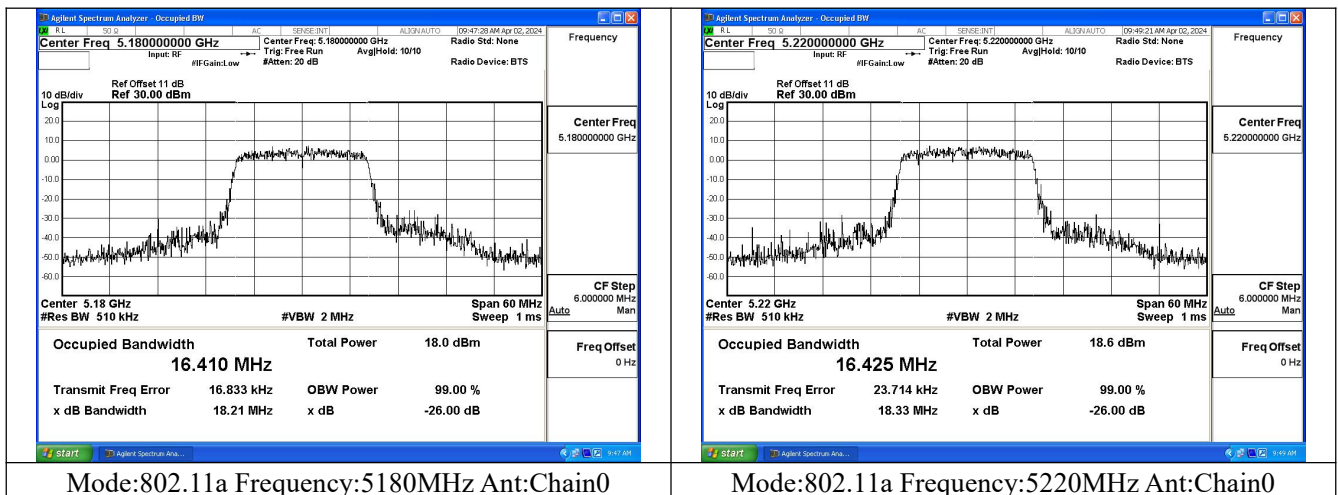
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

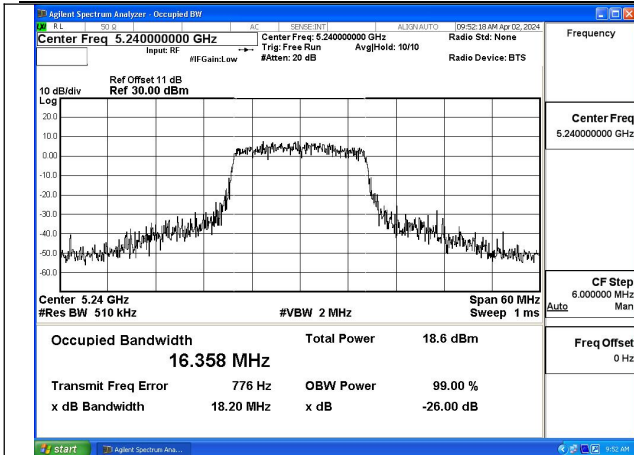
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	18.21	18.33	18.20
802.11a	Chain1	18.30	18.01	18.72
802.11n HT20	Chain0	19.04	19.11	19.48
802.11n HT20	Chain1	19.28	19.60	19.68
802.11ac VHT20	Chain0	19.60	19.21	19.31
802.11ac VHT20	Chain1	19.99	19.73	19.43

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	38.43	---	38.83
802.11n HT40	Chain1	47.56	---	38.90
802.11ac VHT40	Chain0	38.35	---	38.29
802.11ac VHT40	Chain1	42.63	---	38.99

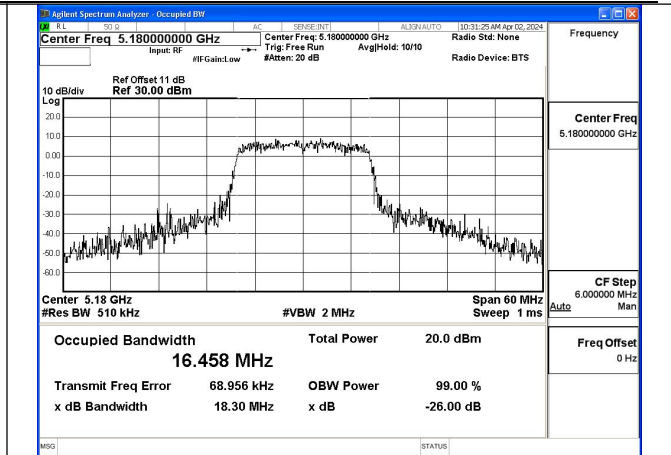
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	80.50	---	---
802.11ac VHT80	Chain1	80.74	---	---

Test Mode: 802.11a

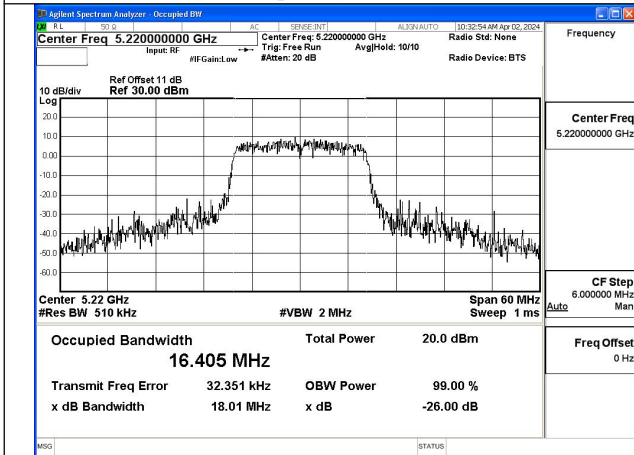




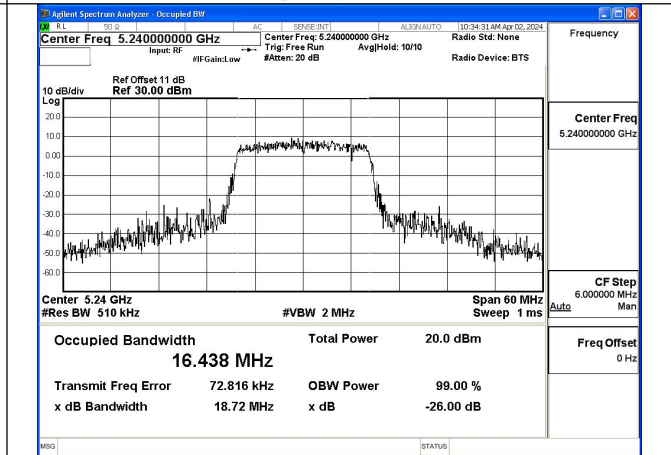
Mode:802.11a Frequency:5240MHz Ant:Chain0



Mode:802.11a Frequency:5180MHz Ant:Chain1

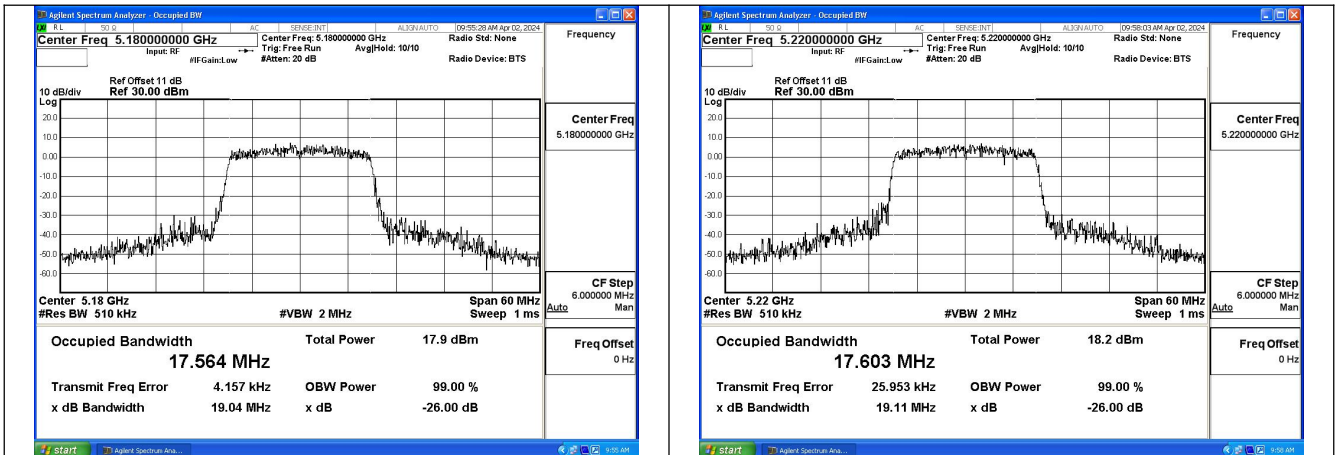


Mode:802.11a Frequency:5220MHz Ant:Chain1



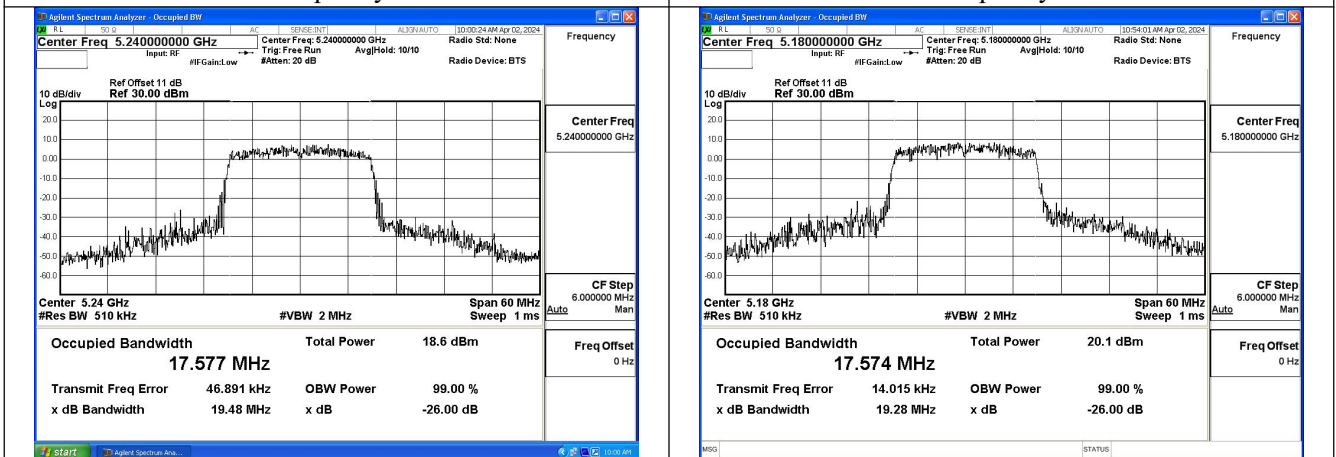
Mode:802.11a Frequency:5240MHz Ant:Chain1

Test Mode: 802.11n HT20



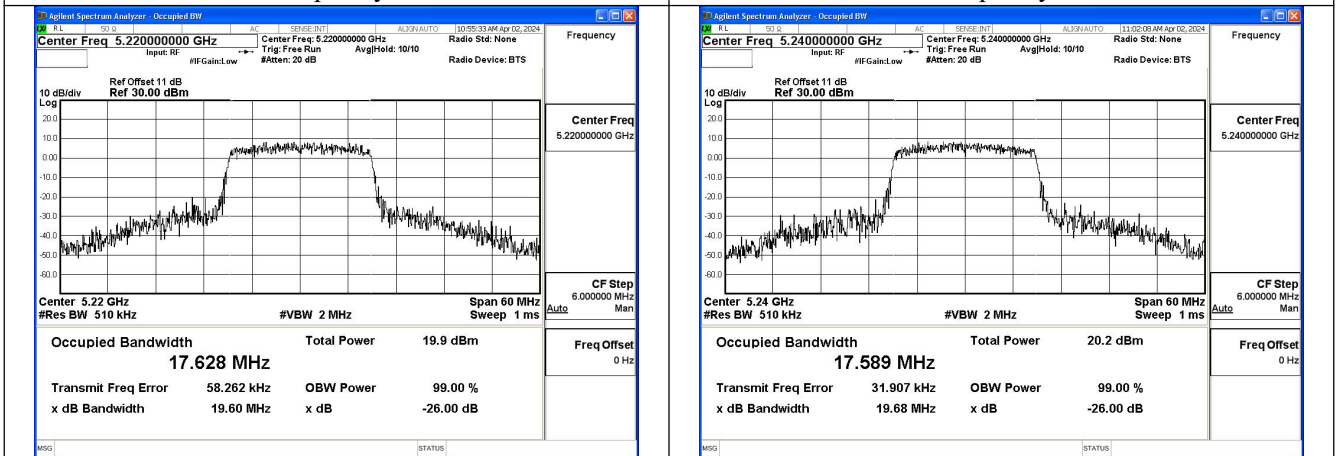
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0

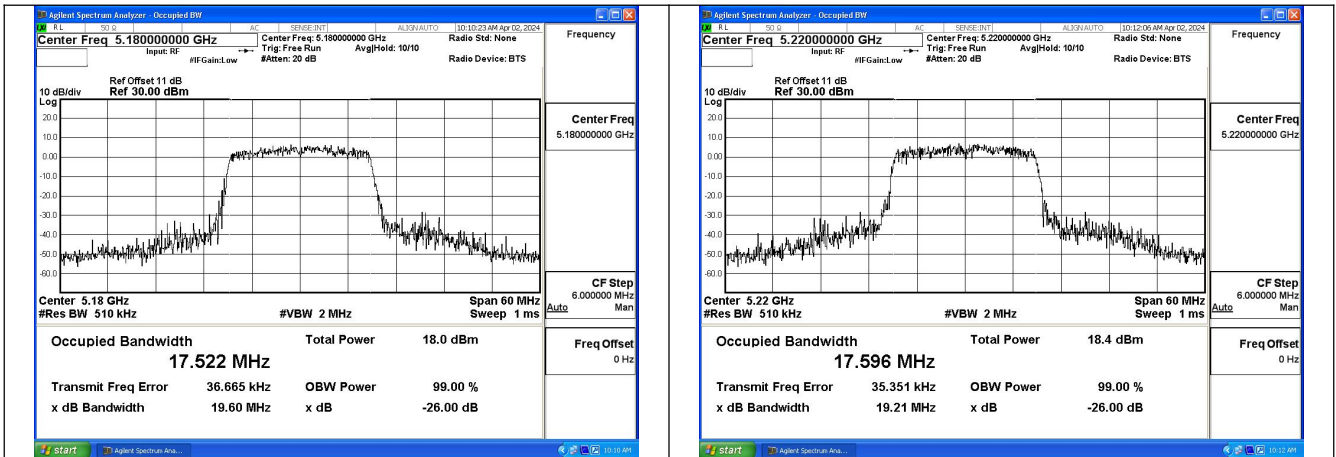
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

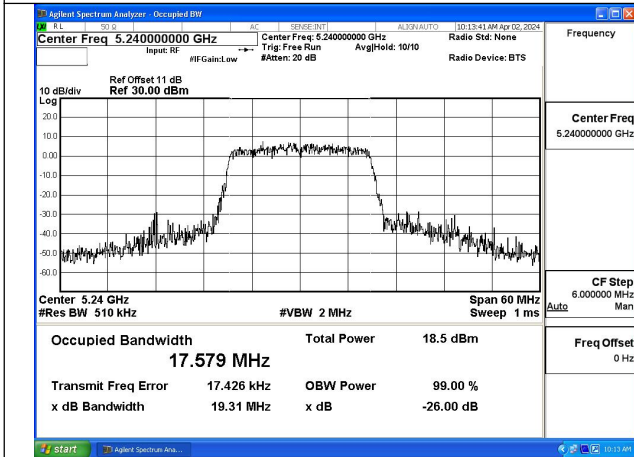
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ac VHT20

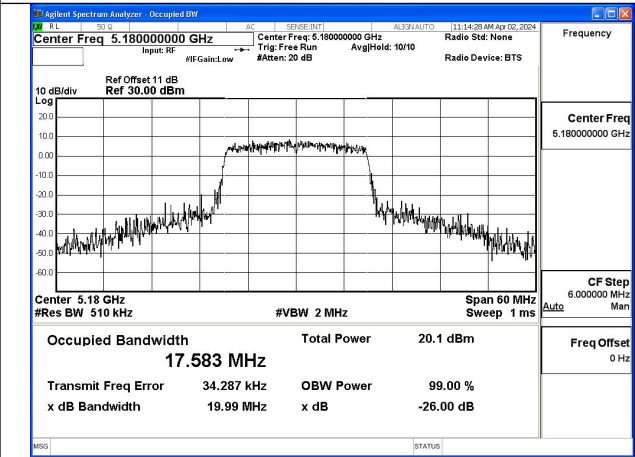


Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain0

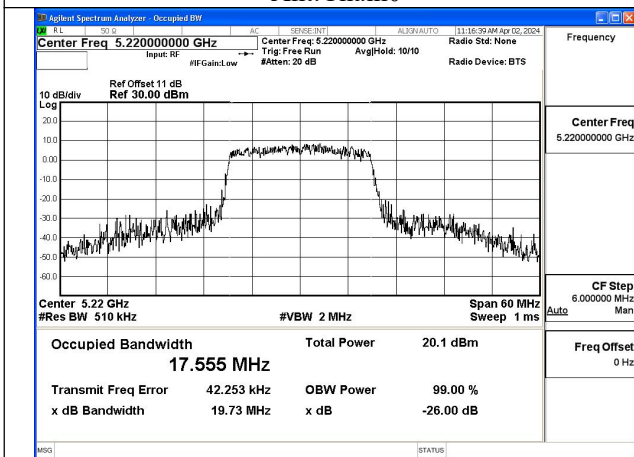
Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain0



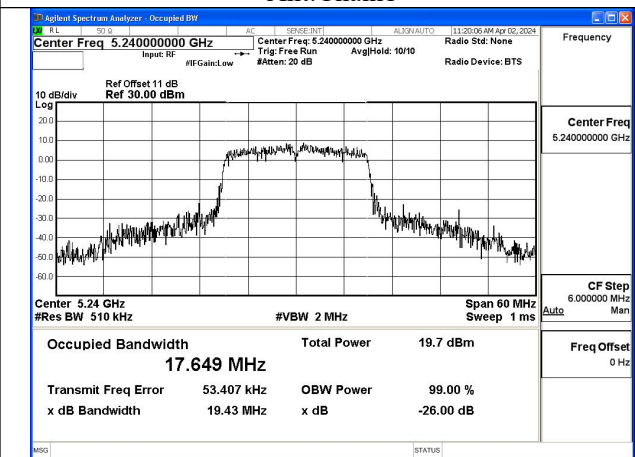
Mode:802.11ac VHT20 Frequency:5240MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5180MHz
Ant:Chain1

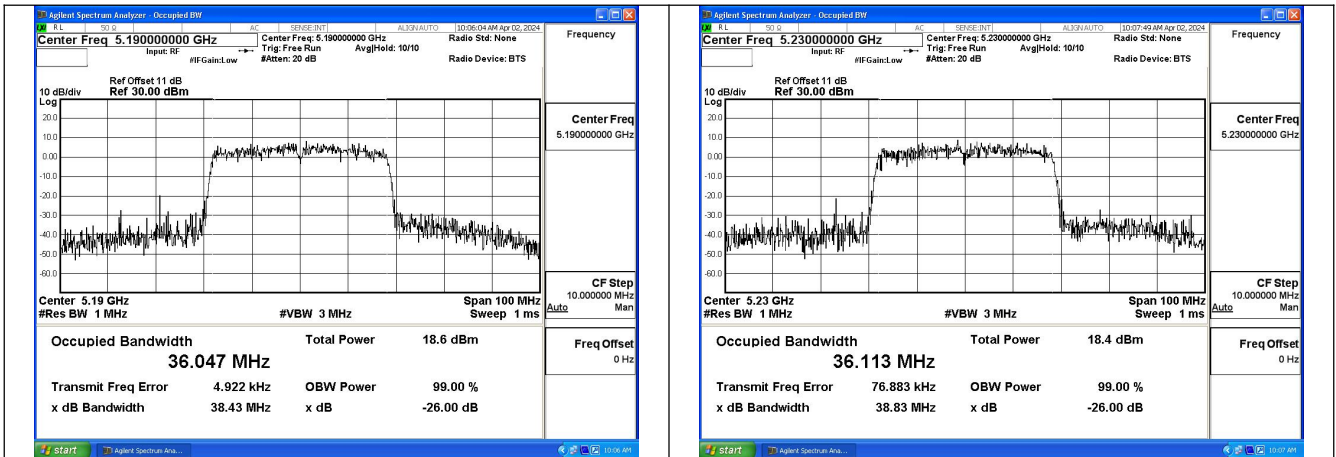


Mode:802.11ac VHT20 Frequency:5220MHz
Ant:Chain1



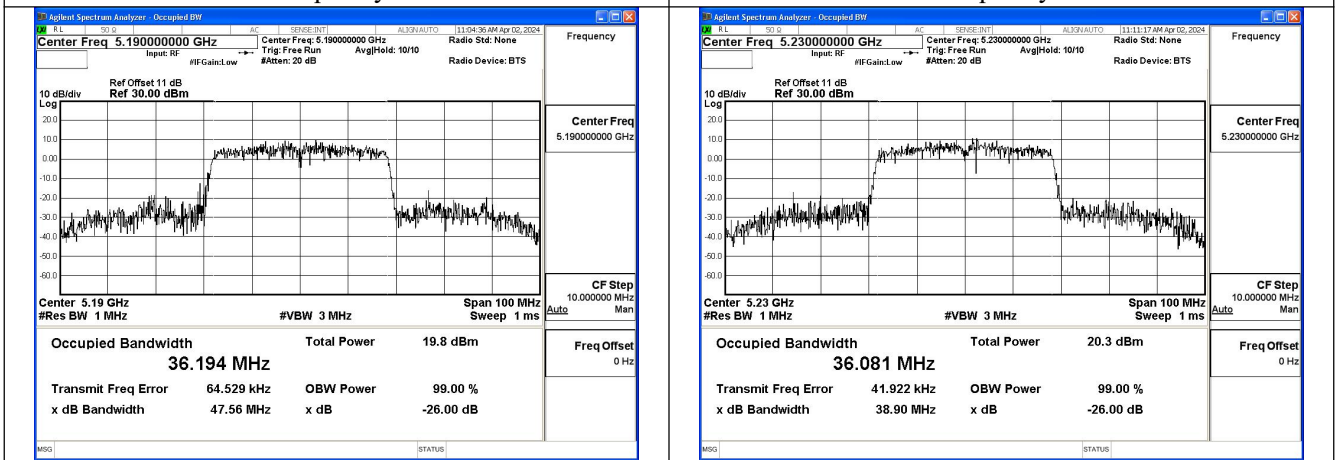
Mode:802.11ac VHT20 Frequency:5240MHz
Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0

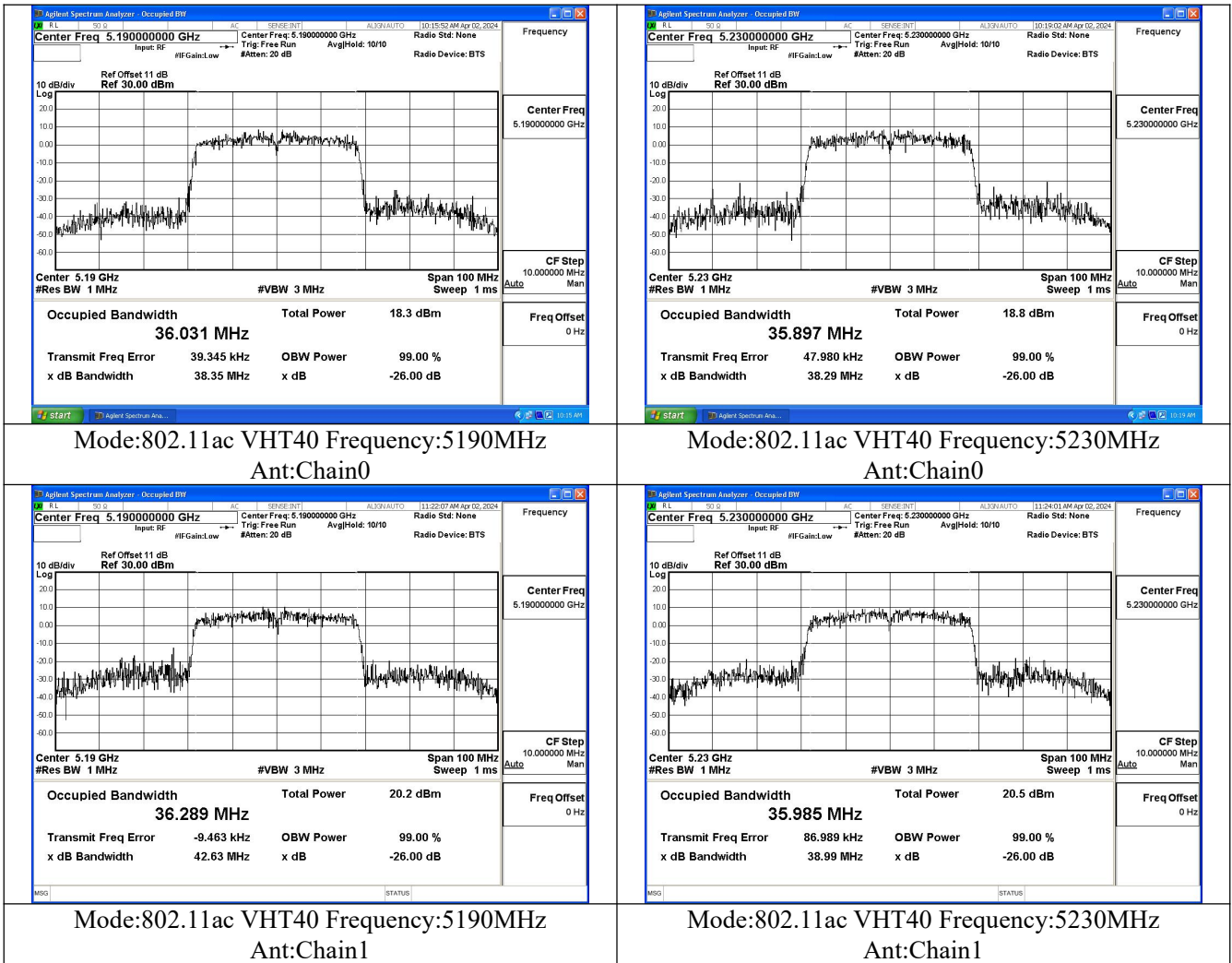
Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0



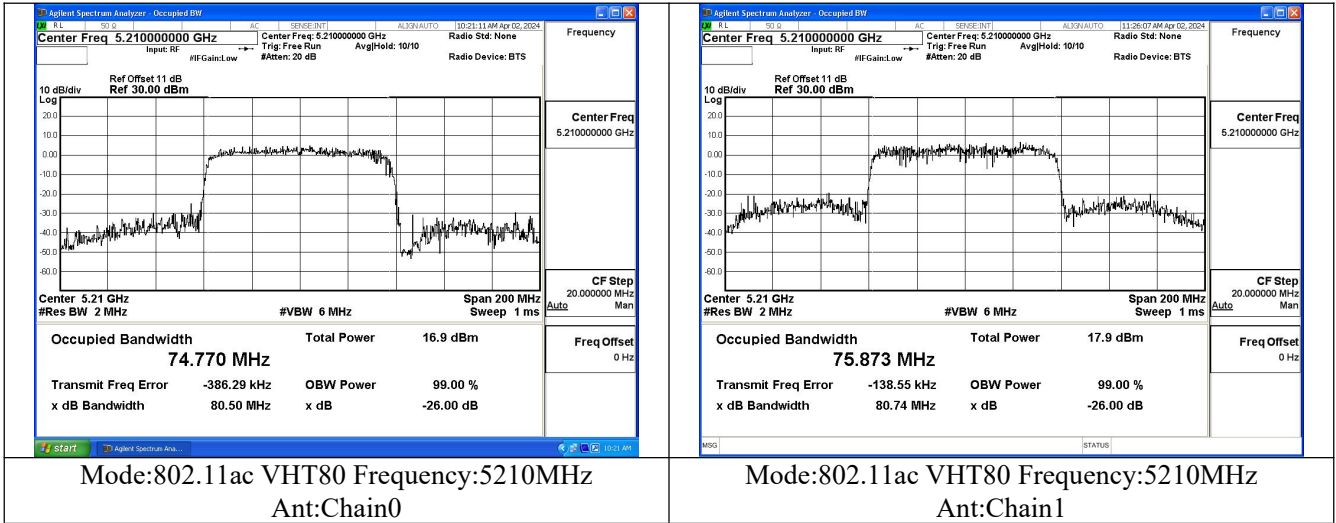
Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Test Mode: 802.11ac VHT80



Occupied Bandwidth

Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.454	16.342	16.406
802.11a	Chain1	16.411	16.418	16.437
802.11n HT20	Chain0	17.522	17.596	17.577
802.11n HT20	Chain1	17.583	17.621	17.576
802.11ac VHT20	Chain0	17.557	17.552	17.589
802.11ac VHT20	Chain1	17.600	17.542	17.599

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.218	---	35.966
802.11n HT40	Chain1	36.157	---	35.938
802.11ac VHT40	Chain0	36.120	---	36.116
802.11ac VHT40	Chain1	35.847	---	36.010

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	75.217	---	---
802.11ac VHT80	Chain1	75.367	---	---

Test Mode: 802.11a

