

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

ANT 0

Offset 29.6dB = Attenuator + Temporary antenna connector loss + Cable loss

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	99.69%	0
802. 11n HT20	5745	99.67%	0
802. 11n HT40	5755	99.55%	0
802. 11ac VHT20	5745	99.74%	0
802. 11ac VHT40	5755	99.49%	0
802. 11ac VHT80	5775	99.39%	0

Output Power NII3

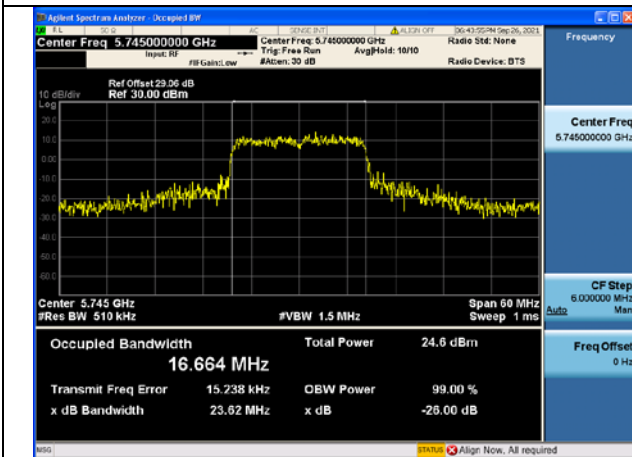
Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	19.65	19.95
		5785	Chain0	19.49	19.79
		5825	Chain0	19.44	19.74
802.11n20M		5745	Chain0	19.41	19.71
		5785	Chain0	19.29	19.59
		5825	Chain0	19.17	19.47
802.11n40M		5755	Chain0	18.71	19.01
		5795	Chain0	18.18	18.48
802.11ac20M		5745	Chain0	19.41	19.71
		5785	Chain0	19.18	19.48
		5825	Chain0	19.06	19.36
802.11ac40M		5755	Chain0	18.77	19.07
	5795	Chain0	18.22	18.52	
802.11ac80M	5775	Chain0	17.29	17.59	

Emission Bandwidth

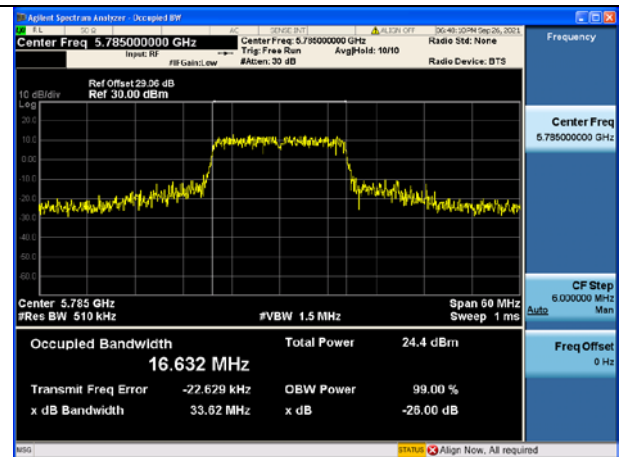
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	23.62
5785	Chain0	33.62
5825	Chain0	28.19

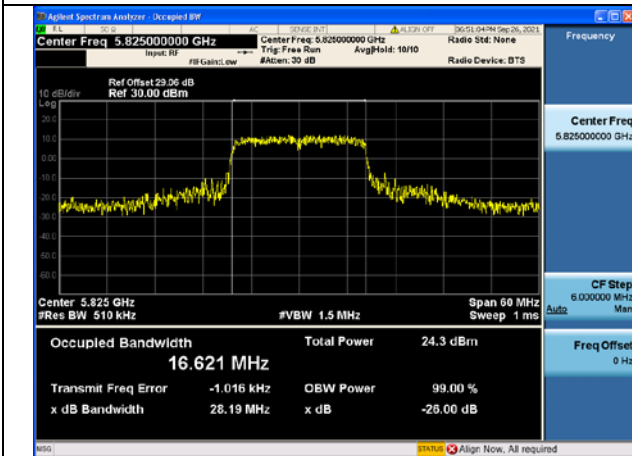
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



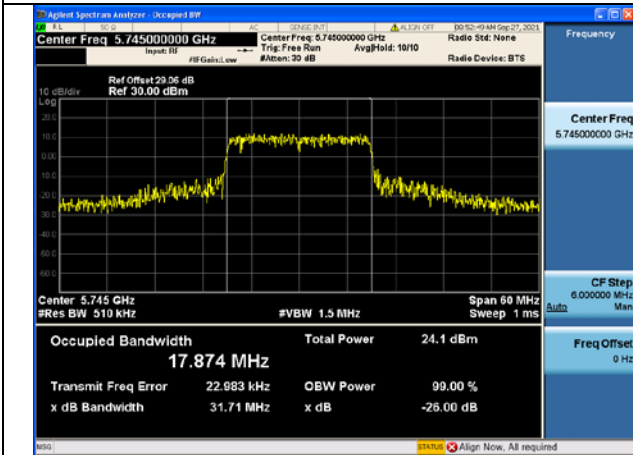
Test Mode:802.11a Chain0



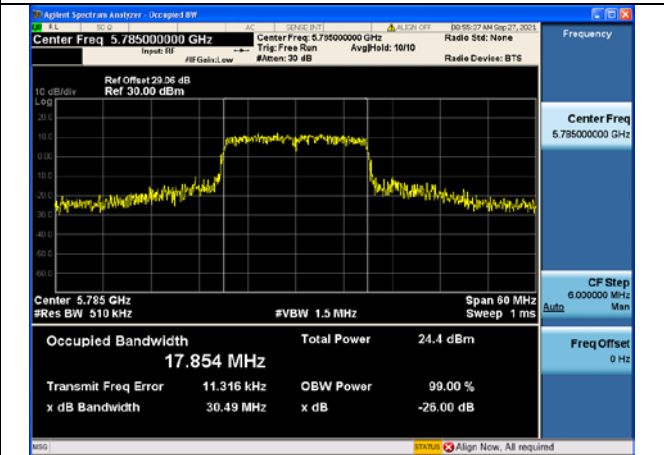
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	31.71
5785	Chain0	30.49
5825	Chain0	35.52

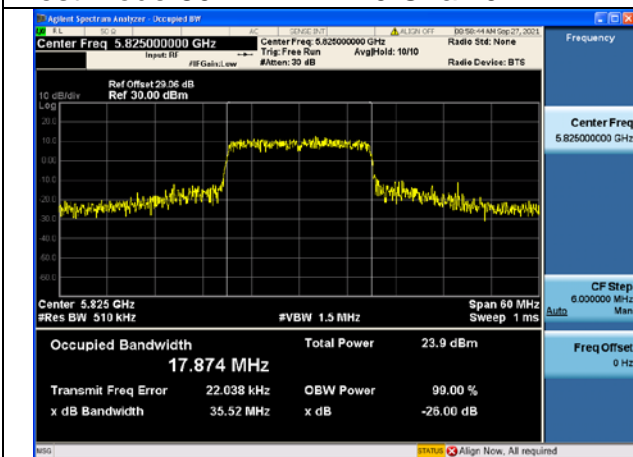
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



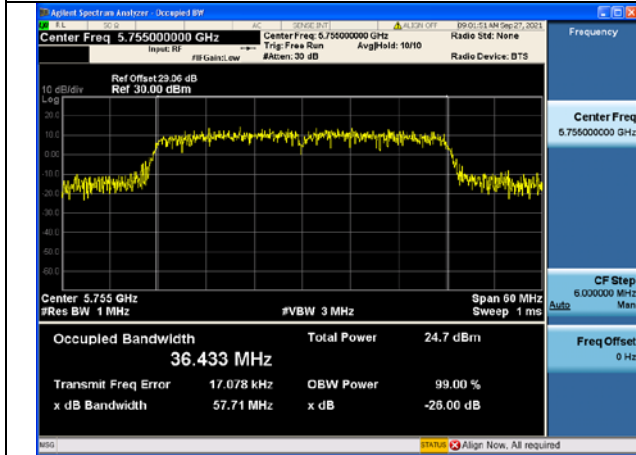
Test Mode:802. 11n HT20 Chain0



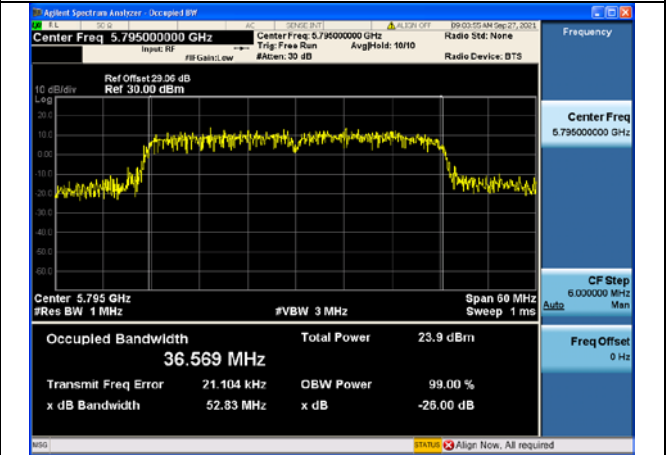
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	57.71
5795	Chain0	52.83

Test Mode:802. 11n HT40 Chain0



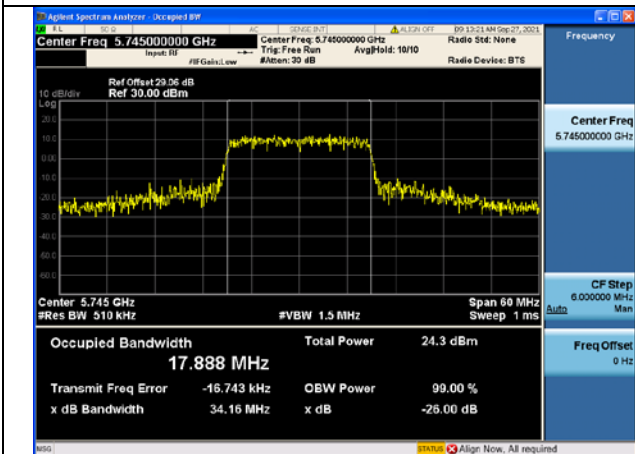
Test Mode:802. 11n HT40 Chain0



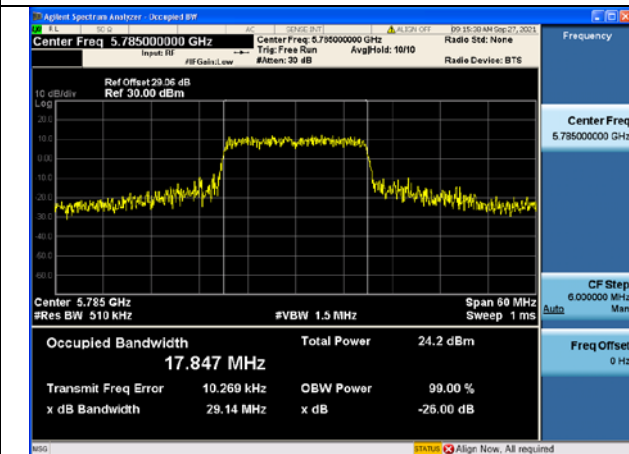
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain0	34.16
5785	Chain0	29.14
5825	Chain0	27.52

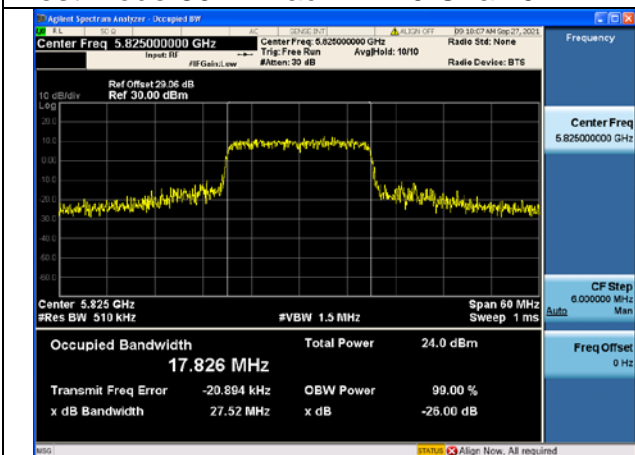
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



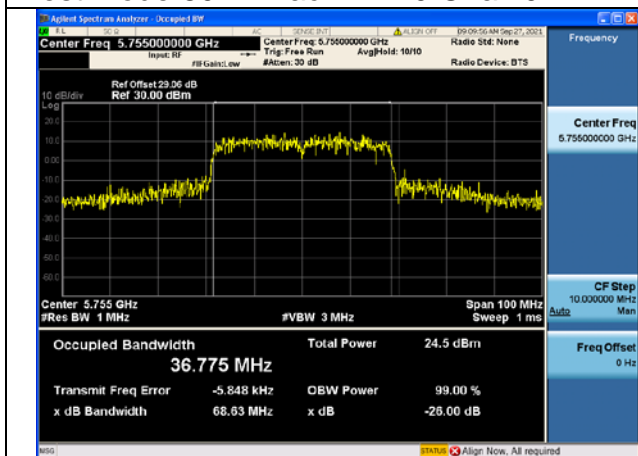
Test Mode:802. 11ac VHT20 Chain0



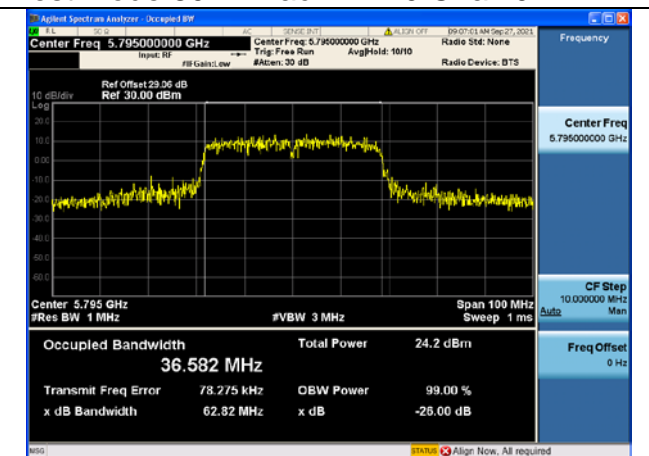
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain0	68.63
5795	Chain0	62.82

Test Mode:802. 11ac VHT40 Chain0



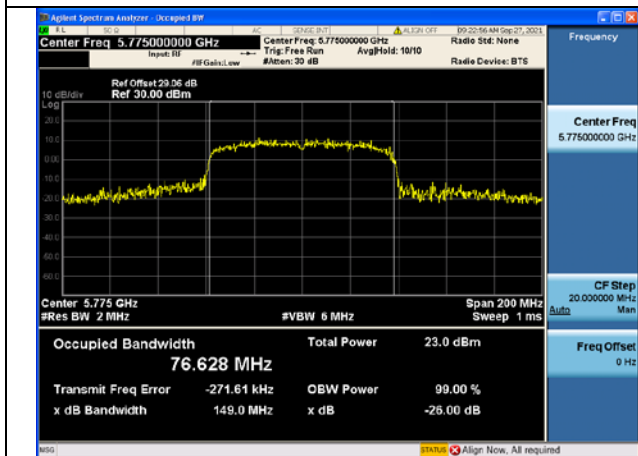
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain0	149.01

Test Mode:802. 11ac VHT80 Chain0

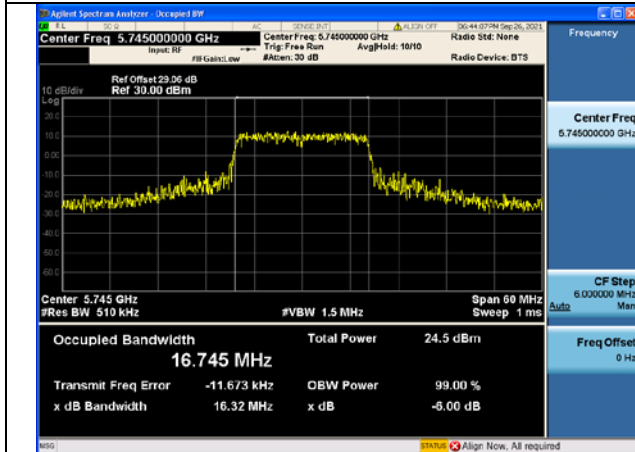


Occupied Bandwidth

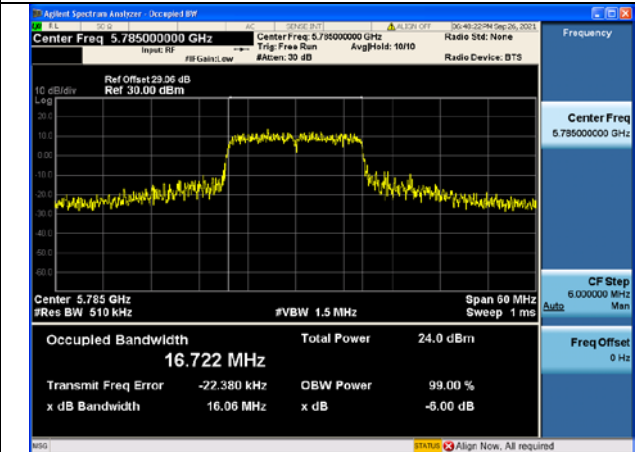
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	16.745
5785	Chain0	16.722
5825	Chain0	16.668

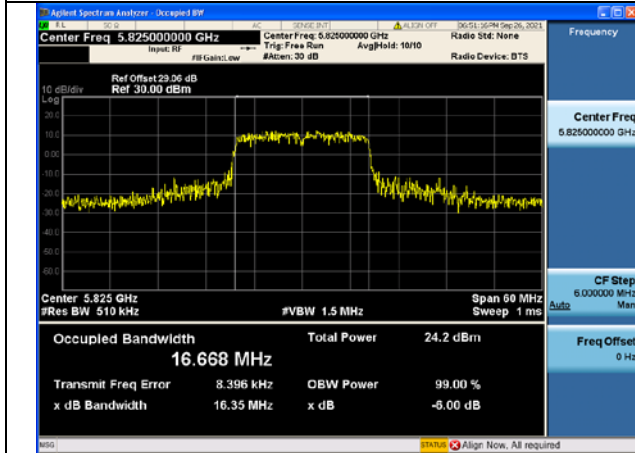
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



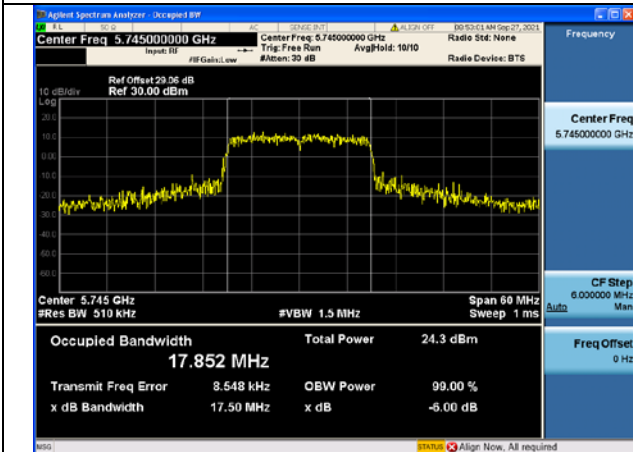
Test Mode:802.11a Chain0



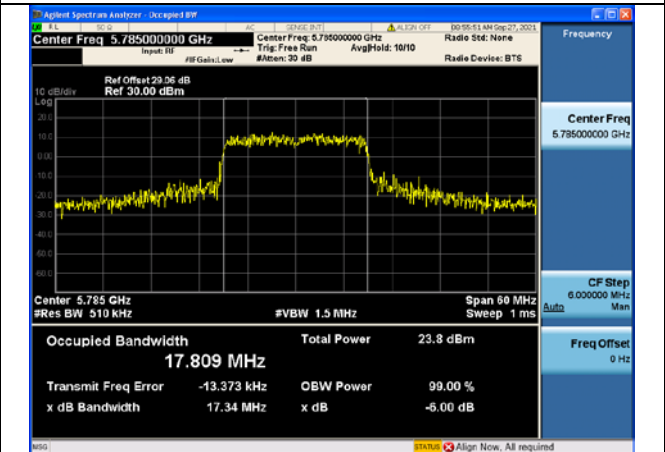
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.852
5785	Chain0	17.809
5825	Chain0	17.874

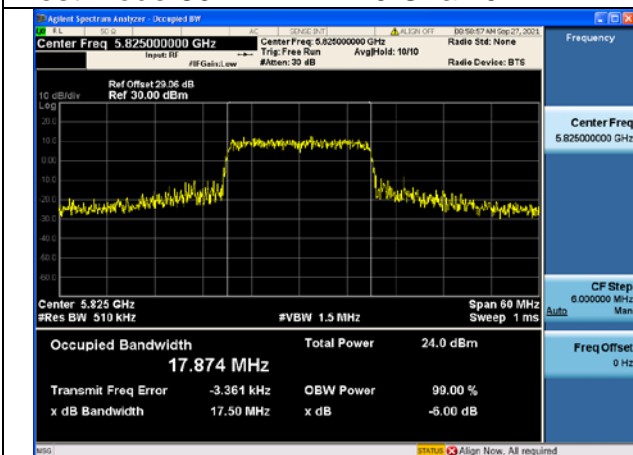
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



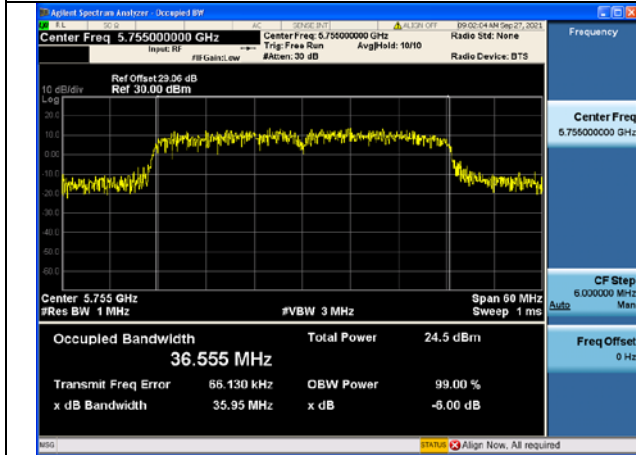
Test Mode:802. 11n HT20 Chain0



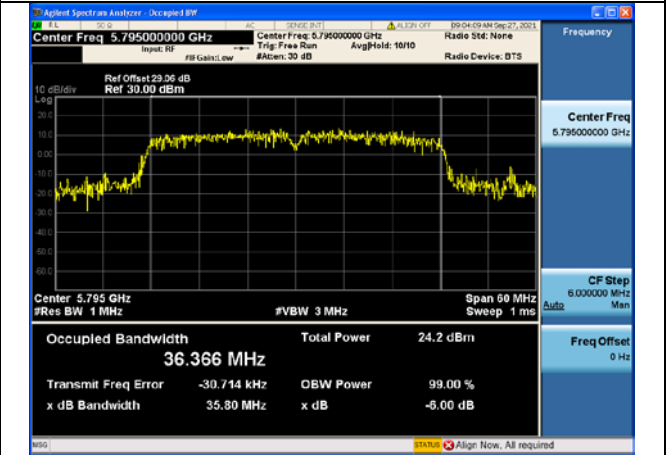
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.555
5795	Chain0	36.366

Test Mode:802. 11n HT40 Chain0



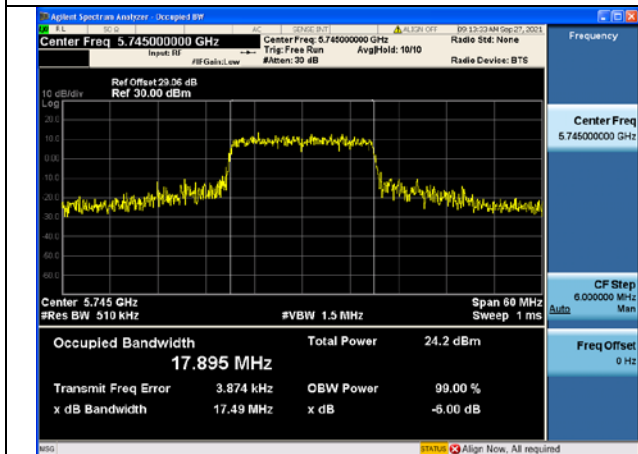
Test Mode:802. 11n HT40 Chain0



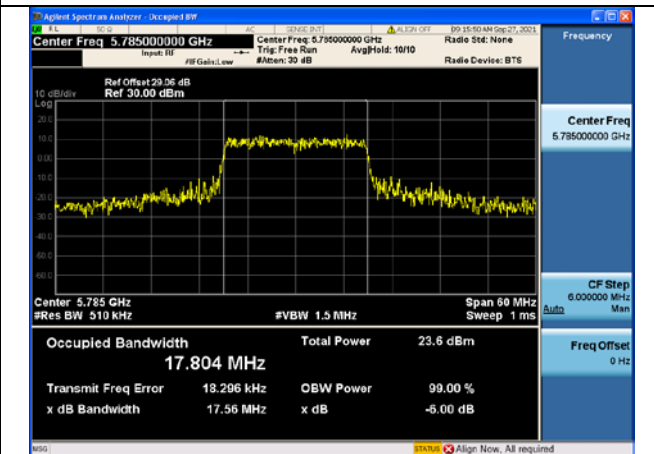
Test Mode:802.11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain0	17.895
5785	Chain0	17.804
5825	Chain0	17.777

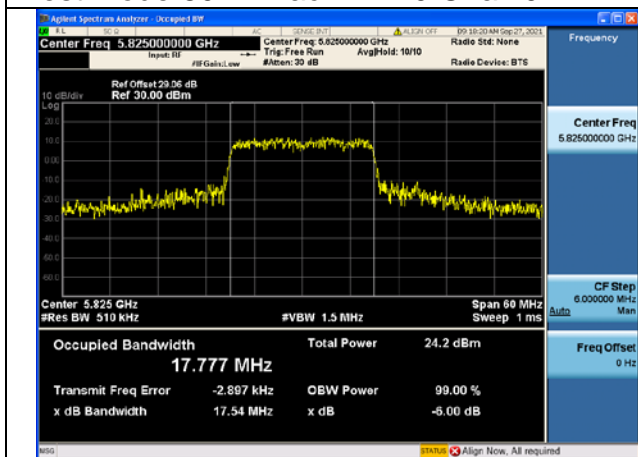
Test Mode:802.11ac VHT20 Chain0



Test Mode:802.11ac VHT20 Chain0



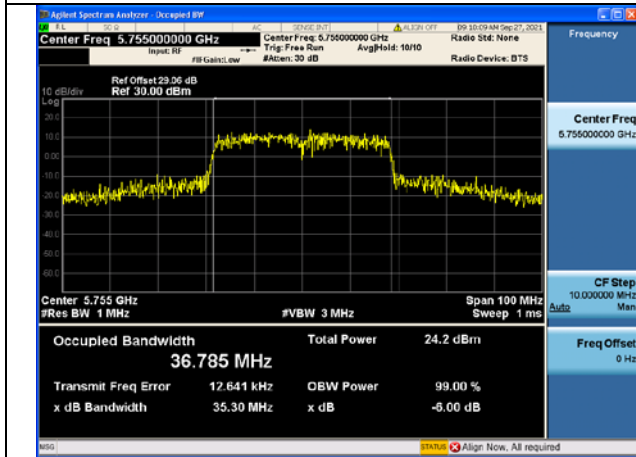
Test Mode:802.11ac VHT20 Chain0



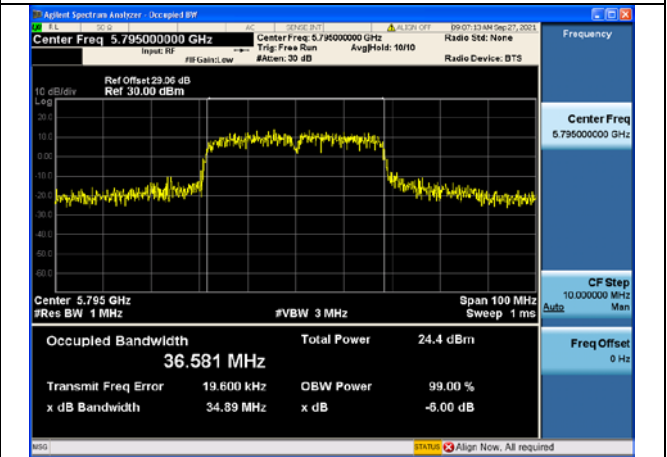
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain0	36.785
5795	Chain0	36.581

Test Mode:802. 11ac VHT40 Chain0



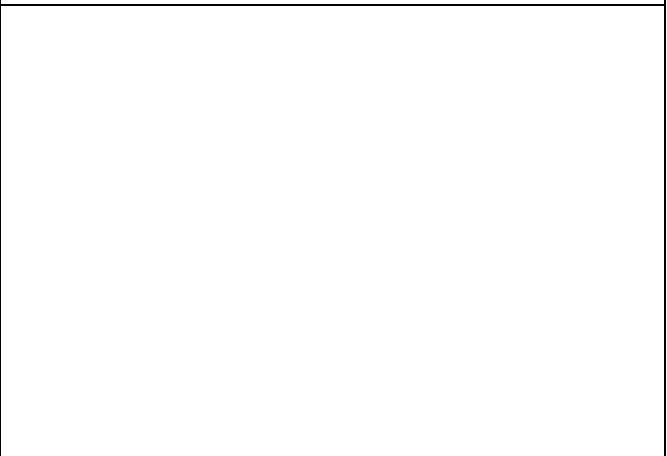
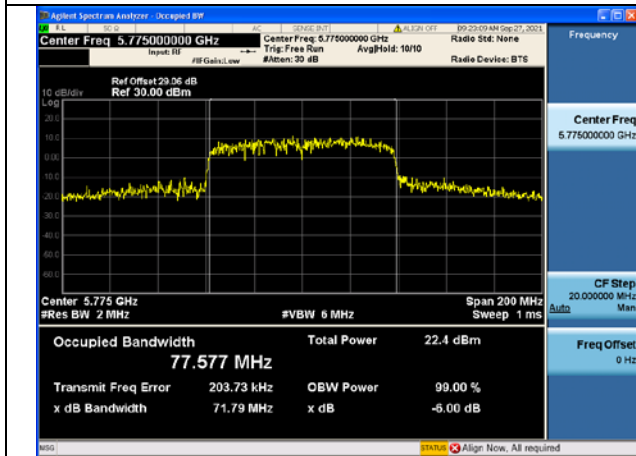
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5775	Chain0	77.577

Test Mode:802. 11ac VHT80 Chain0

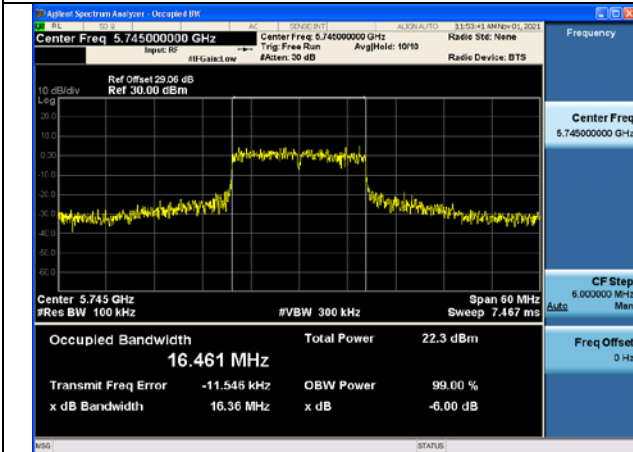


6dB Bandwidth

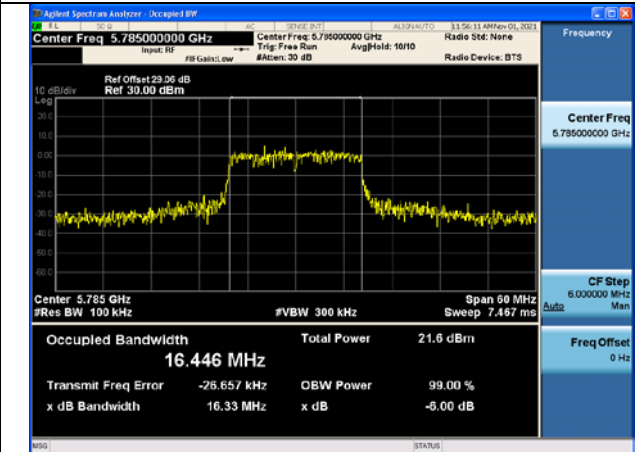
Test Mode:802.11a

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	16.36
5785	Chain0	16.33
5825	Chain0	16.44

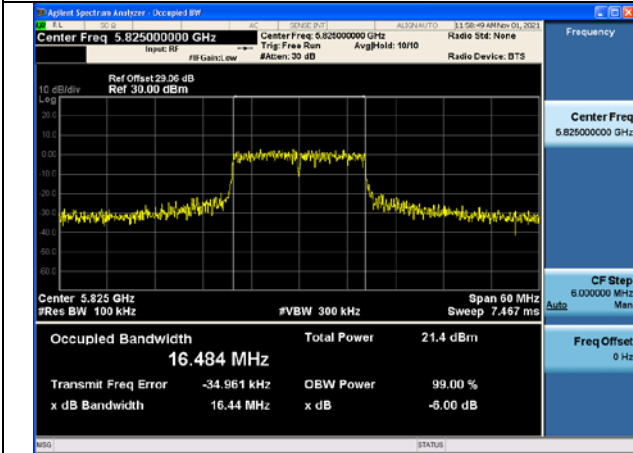
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



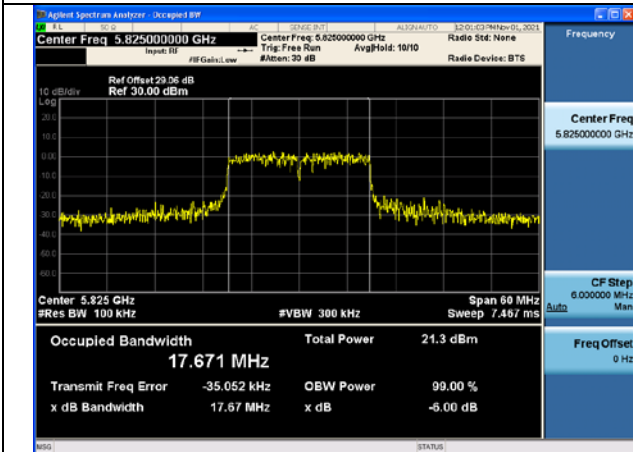
Test Mode:802.11a Chain0



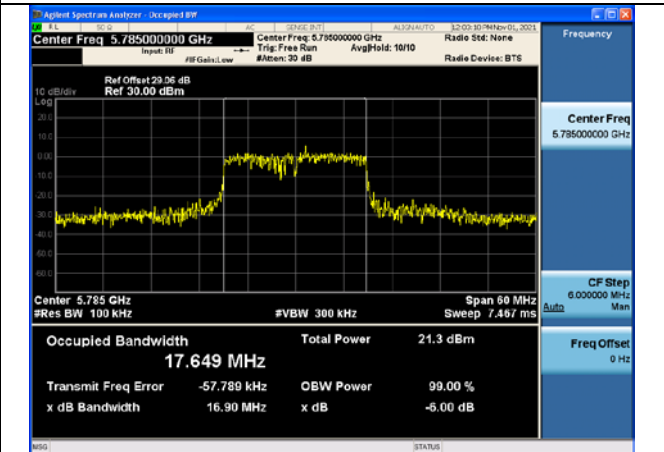
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.67
5785	Chain0	16.90
5825	Chain0	17.67

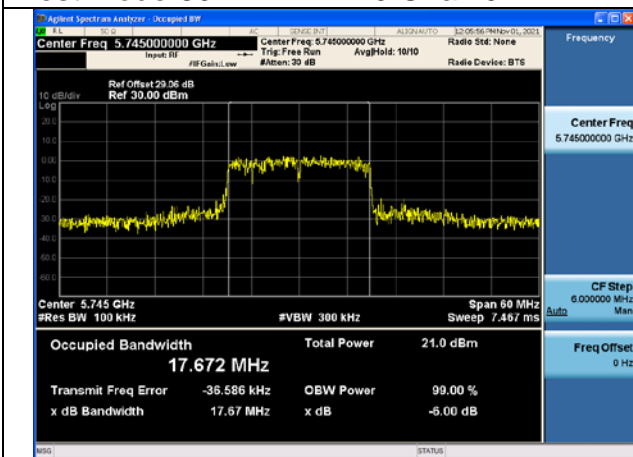
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



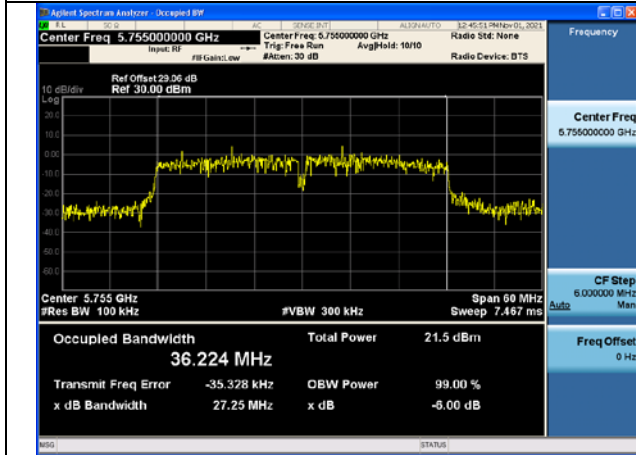
Test Mode:802. 11n HT20 Chain0



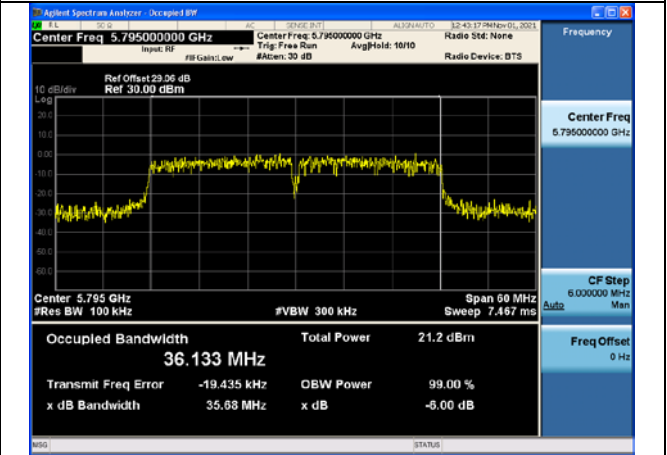
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	27.25
5795	Chain0	35.68

Test Mode:802. 11n HT40 Chain0



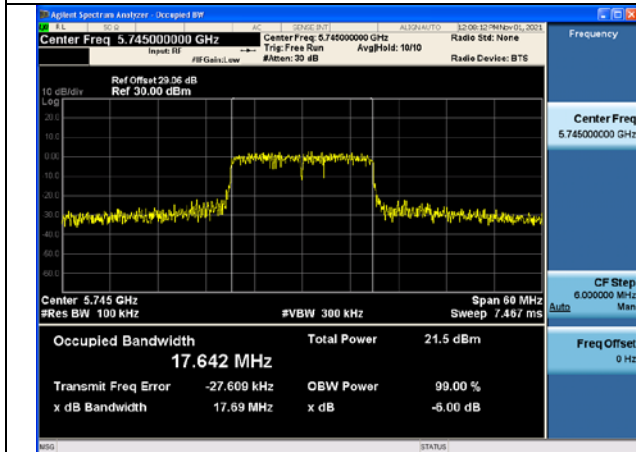
Test Mode:802. 11n HT40 Chain0



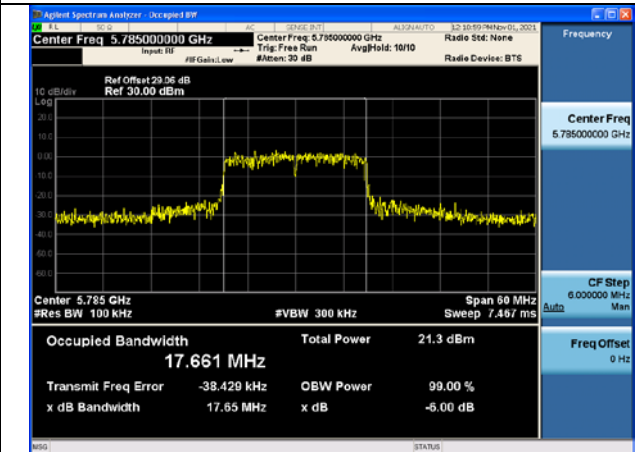
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5745	Chain0	17.69
5785	Chain0	17.65
5825	Chain0	17.57

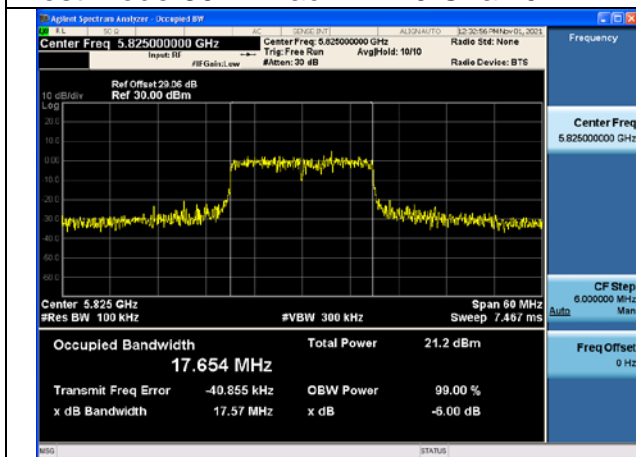
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



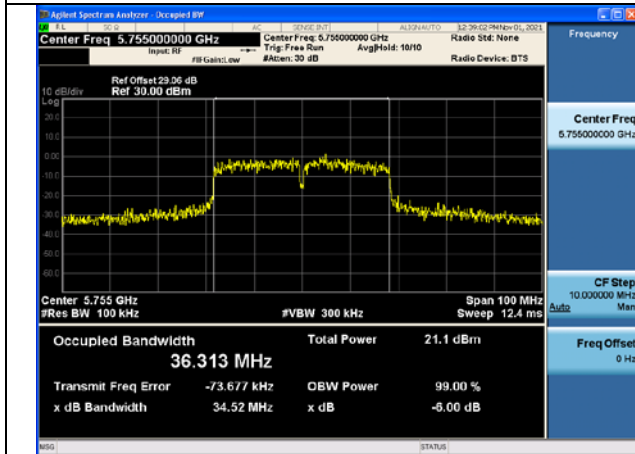
Test Mode:802. 11ac VHT20 Chain0



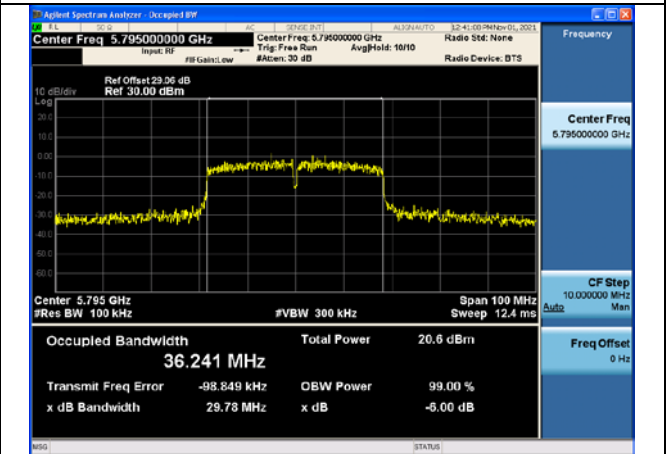
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5755	Chain0	34.52
5795	Chain0	29.78

Test Mode:802. 11ac VHT40 Chain0



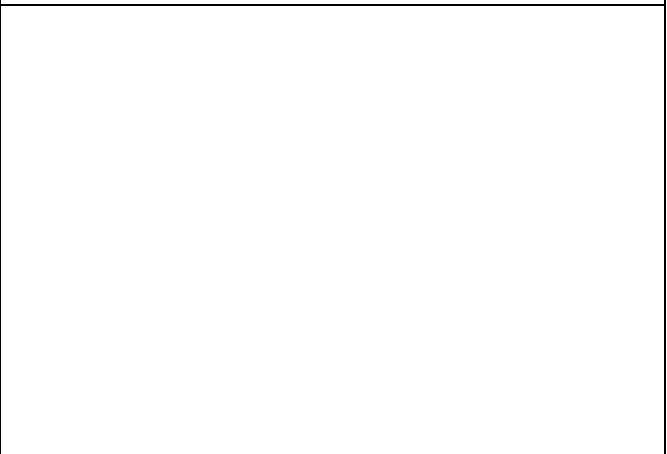
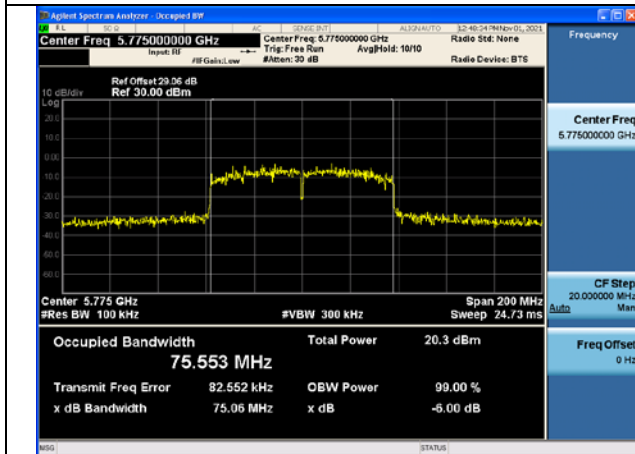
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	6dB Bandwidth (MHz)
5775	Chain0	75.06

Test Mode:802. 11ac VHT80 Chain0



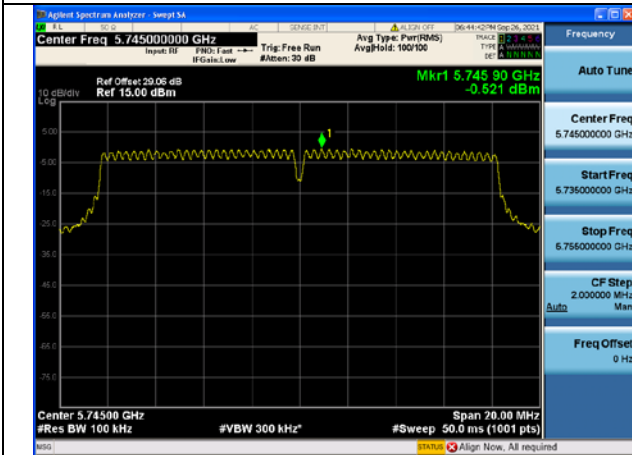
Transmitter Power Spectral Density

Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5745	0	Chain0	-0.521
5785		Chain0	-0.791
5825		Chain0	-0.867

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

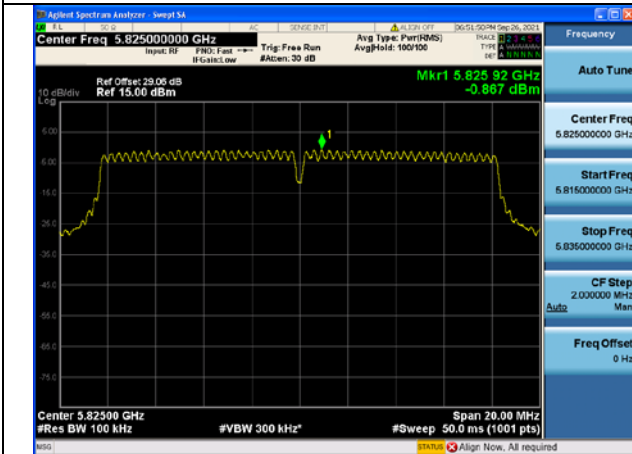
Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain0

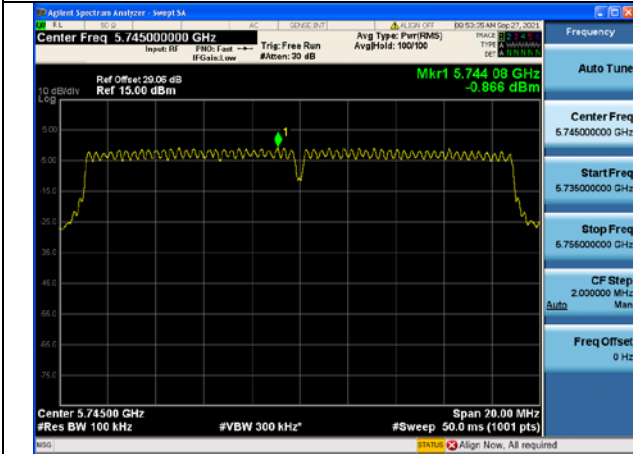


Test Mode:802. 11n HT20

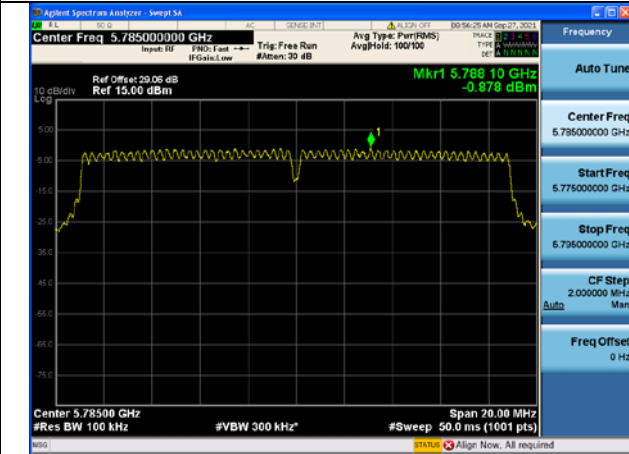
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5745	0	Chain0	-0.866
5785		Chain0	-0.878
5825		Chain0	-0.867

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

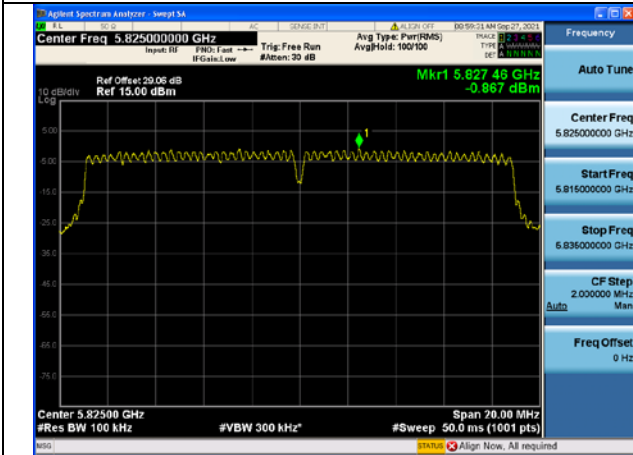
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0

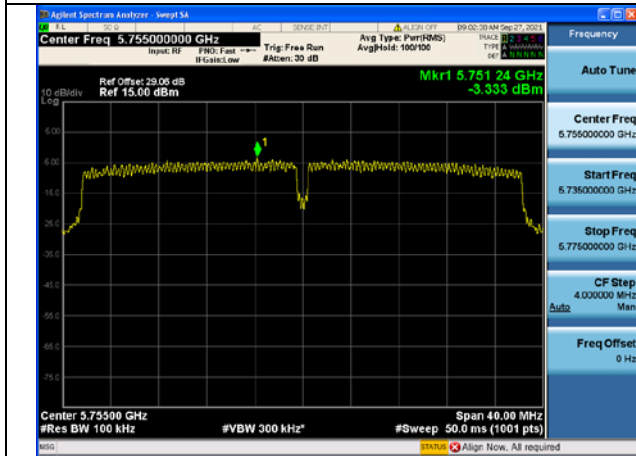


Test Mode:802. 11n HT40

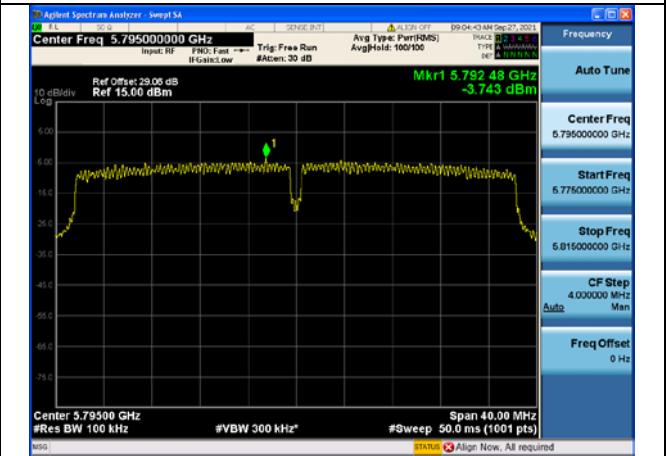
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5755	0	Chain0	-3.333
5795		Chain0	-3.743

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain0

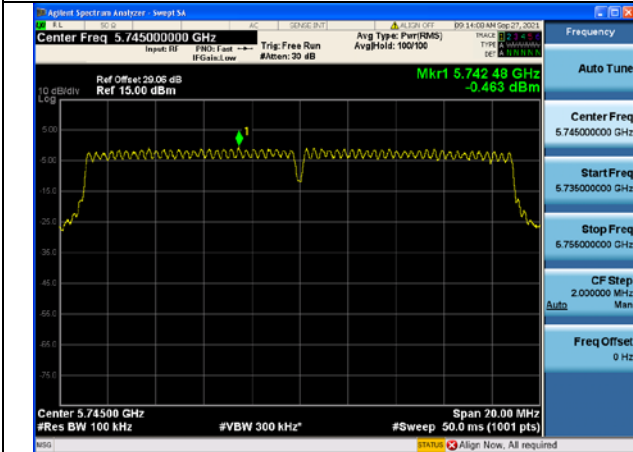


Test Mode:802. 11ac VHT20

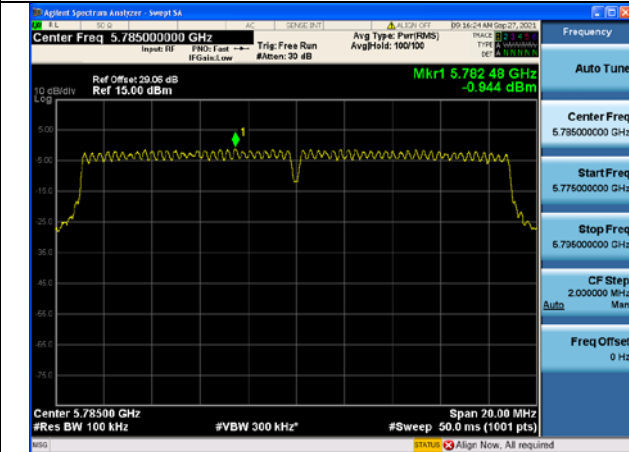
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5745	0	Chain0	-0.463
5785		Chain0	-0.944
5825		Chain0	-1.081

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

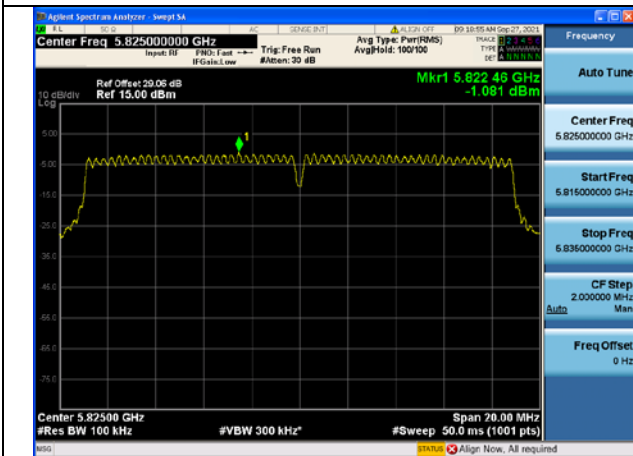
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0

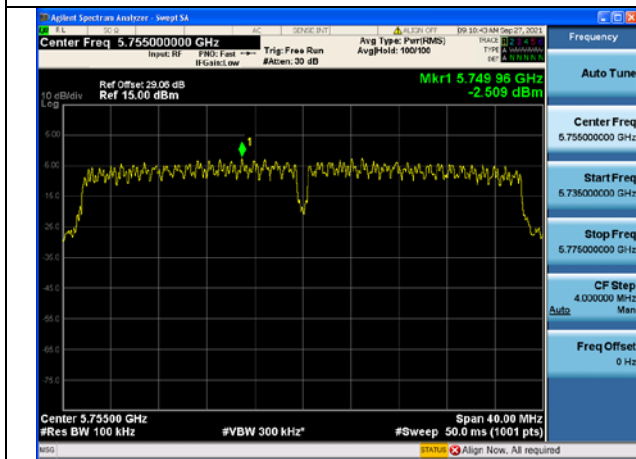


Test Mode:802. 11ac VHT40

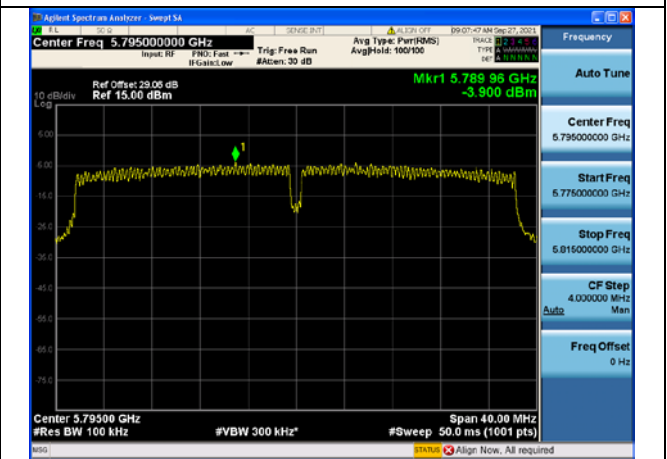
Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5755	0	Chain0	-2.509
5795		Chain0	-3.9

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0

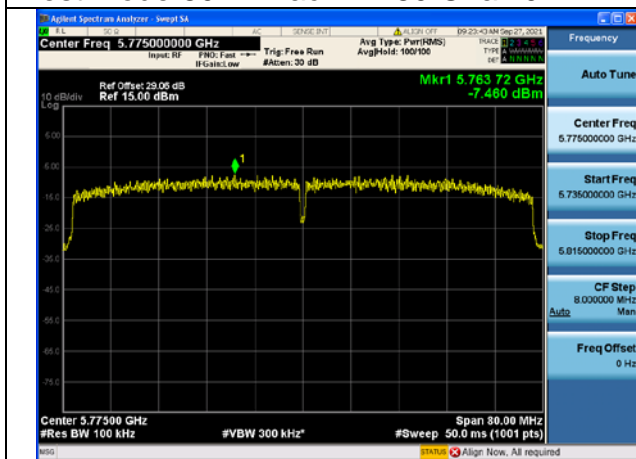


Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm/500kHz)
5775	0	Chain0	-7.46

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result.

Test Mode:802. 11ac VHT80 Chain0



ANT 1

Offset 6dB = Attenuator + Temporary antenna connector loss + Cable loss

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	79.36%	1.00
802. 11n HT20	5745	92.72%	0.33
802. 11n HT40	5755	88.99%	0.51
802. 11ac VHT20	5745	93.24%	0.30
802. 11ac VHT40	5755	89.71%	0.47
802. 11ac VHT80	5775	85.66%	0.67

Output Power NII3

Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain1	11.59	12.59
		5785	Chain1	11.68	12.68
		5825	Chain1	11.32	12.32
802.11n20M		5745	Chain1	16.98	17.28
		5785	Chain1	17.97	18.27
		5825	Chain1	17.61	17.91
802.11n40M		5755	Chain1	17.26	17.56
		5795	Chain1	16.87	17.17
802.11ac20M		5745	Chain1	17.83	18.13
		5785	Chain1	17.92	18.22
		5825	Chain1	17.53	17.83
802.11ac40M		5755	Chain1	17.41	17.71
	5795	Chain1	16.93	17.23	
802.11ac80M	5775	Chain1	15.94	16.24	

Emission Bandwidth

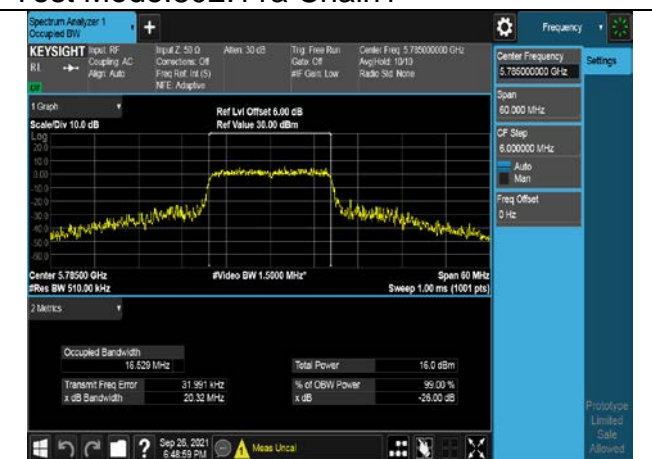
Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain1	20.20
5785	Chain1	20.32
5825	Chain1	18.30

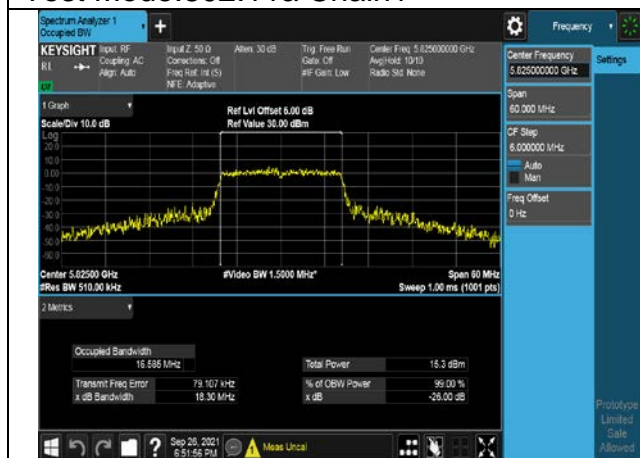
Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain1	19.21
5785	Chain1	24.35
5825	Chain1	19.81

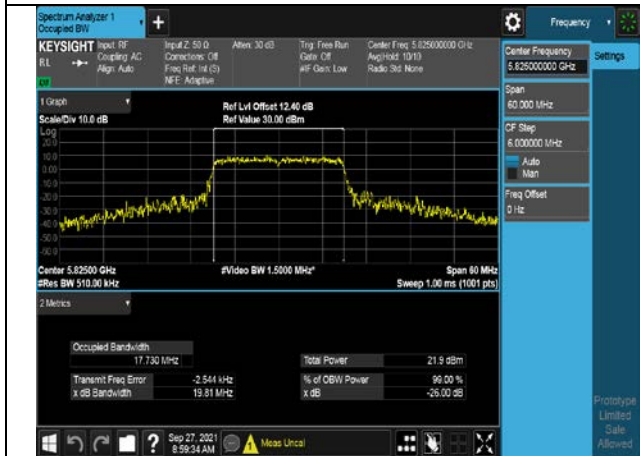
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



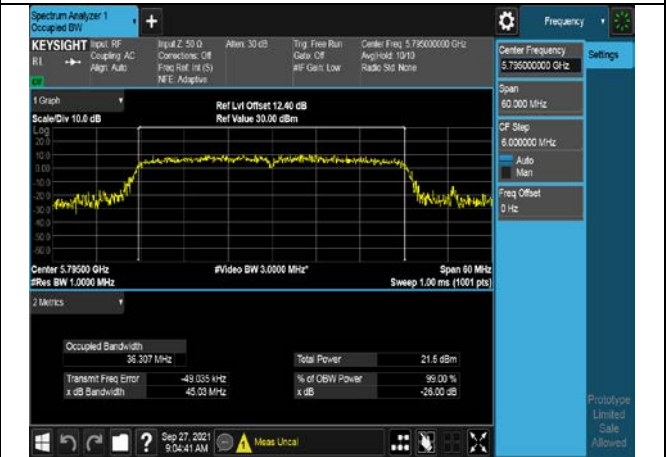
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain1	52.11
5795	Chain1	45.03

Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



Test Mode:802.11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5745	Chain1	20.95
5785	Chain1	21.85
5825	Chain1	21.51

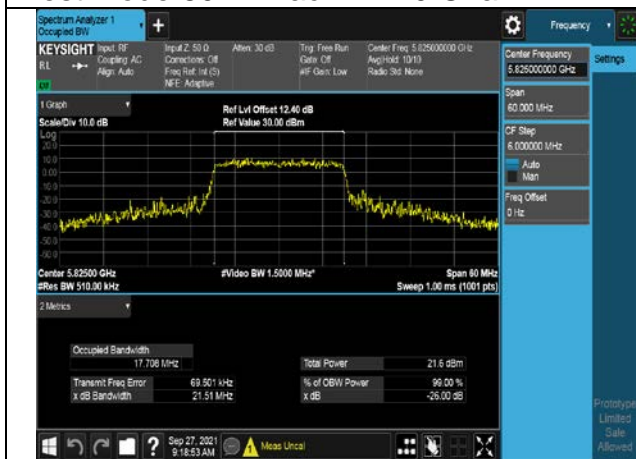
Test Mode:802.11ac VHT20 Chain1



Test Mode:802.11ac VHT20 Chain1



Test Mode:802.11ac VHT20 Chain1



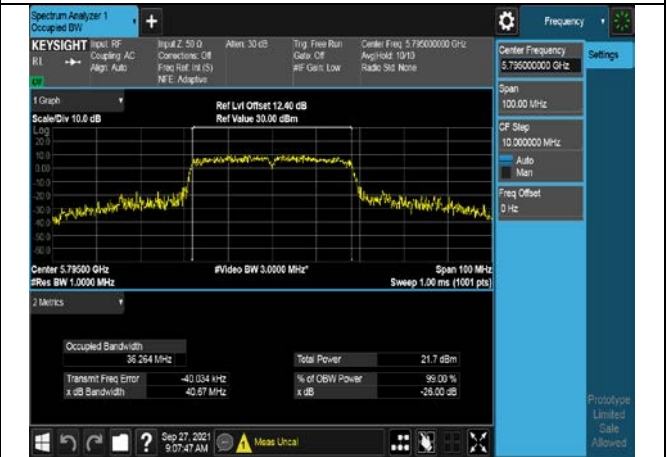
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5755	Chain1	46.95
5795	Chain1	40.67

Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5775	Chain1	90.53

Test Mode:802. 11ac VHT80 Chain1



Occupied Bandwidth
Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain1	16.551
5785	Chain1	16.541
5825	Chain1	16.790

Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



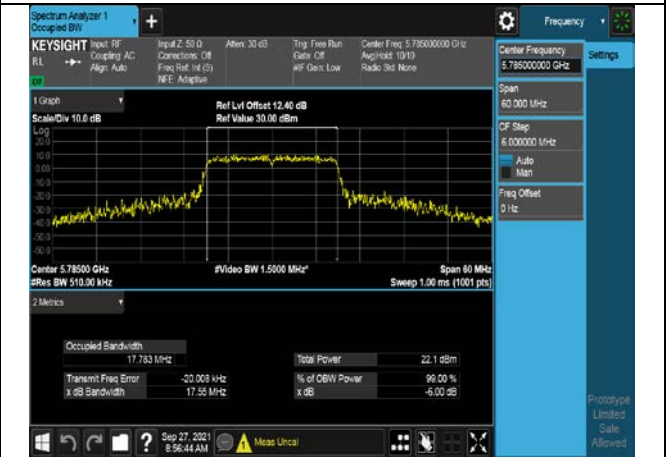
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain1	17.705
5785	Chain1	17.783
5825	Chain1	17.743

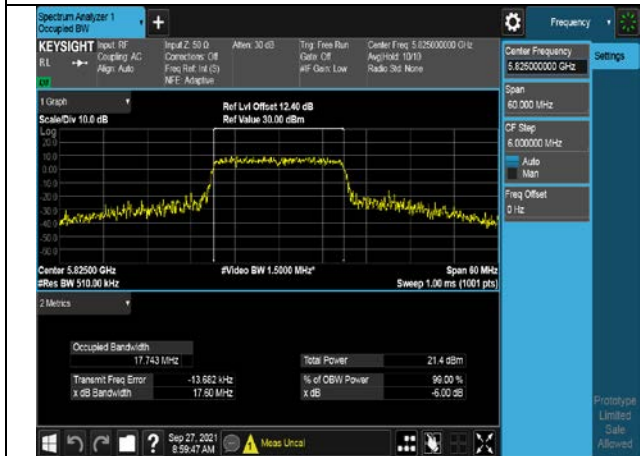
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



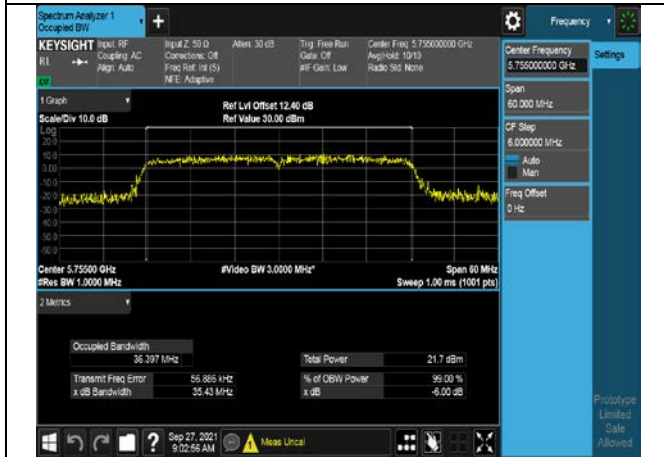
Test Mode:802. 11n HT20 Chain1



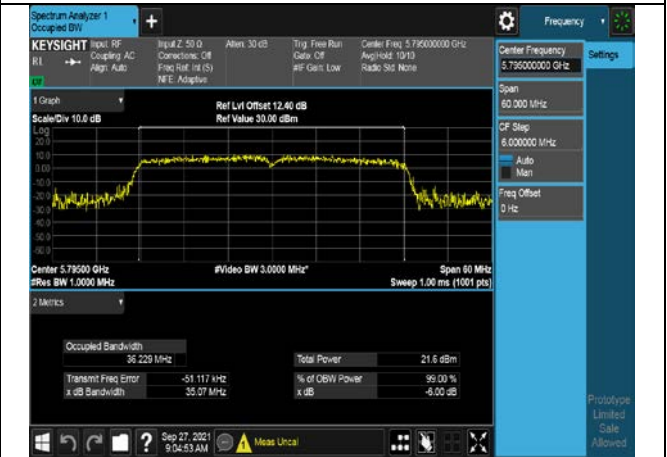
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5755	Chain1	36.397
5795	Chain1	36.229

Test Mode:802. 11n HT40 Chain1



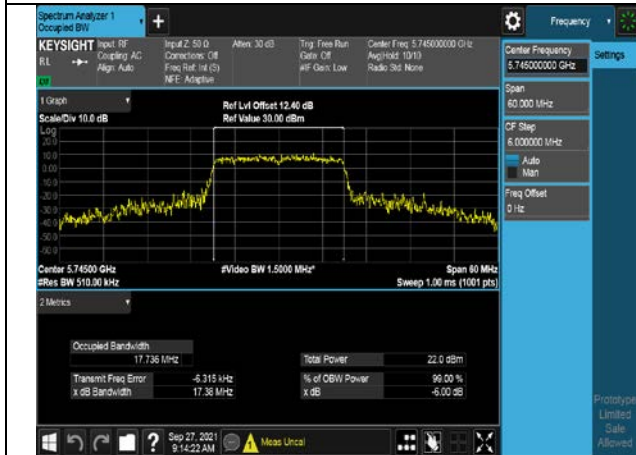
Test Mode:802. 11n HT40 Chain1



Test Mode:802.11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5745	Chain1	17.736
5785	Chain1	17.725
5825	Chain1	17.785

Test Mode:802.11ac VHT20 Chain1



Test Mode:802.11ac VHT20 Chain1



Test Mode:802.11ac VHT20 Chain1

