

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5745	98.72%	0
802.11a	5745	98.72%	0
802.11n HT20	5745	98.60%	0
802.11n HT20	5745	98.58%	0
802.11ac VHT20	5745	98.60%	0
802.11ac VHT20	5745	98.58%	0
802.11n HT40	5755	97.35%	0.12
802.11n HT40	5755	97.23%	0.12
802.11ac VHT40	5755	97.34%	0.12
802.11ac VHT40	5755	97.28%	0.12
802.11ac VHT80	5775	97.32%	0.12
802.11ac VHT80	5775	94.95%	0.23

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

Output Power

Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5745	Chain0	14.78	16.78
802.11a	NA	5745	Chain1	15.17	16.67
802.11a	NA	5785	Chain0	18.96	20.96
802.11a	NA	5785	Chain1	15.79	17.29
802.11a	NA	5825	Chain0	19.23	21.23
802.11a	NA	5825	Chain1	16.17	17.67
802.11n HT20	NA	5745	Chain0	18.16	20.16
802.11n HT20	NA	5745	Chain1	14.89	16.39
802.11n HT20	NA	5745	MIMO	19.84	21.60
802.11n HT20	NA	5785	Chain0	18.86	20.86
802.11n HT20	NA	5785	Chain1	15.29	16.79
802.11n HT20	NA	5785	MIMO	20.44	22.20
802.11n HT20	NA	5825	Chain0	19.18	21.18
802.11n HT20	NA	5825	Chain1	15.79	17.29
802.11n HT20	NA	5825	MIMO	20.82	22.58
802.11ac VHT20	NA	5745	Chain0	18.00	20.00
802.11ac VHT20	NA	5745	Chain1	14.58	16.08
802.11ac VHT20	NA	5745	MIMO	19.63	21.39
802.11ac VHT20	NA	5785	Chain0	18.81	20.81
802.11ac VHT20	NA	5785	Chain1	15.11	16.61
802.11ac VHT20	NA	5785	MIMO	20.35	22.11
802.11ac VHT20	NA	5825	Chain0	19.10	21.10

802.11ac VHT20	NA	5825	Chain1	15.51	17.01
802.11ac VHT20	NA	5825	MIMO	20.68	22.44
802.11n HT40	NA	5755	Chain0	18.33	20.33
802.11n HT40	NA	5755	Chain1	14.85	16.35
802.11n HT40	NA	5755	MIMO	19.94	21.70
802.11n HT40	NA	5795	Chain0	19.01	21.01
802.11n HT40	NA	5795	Chain1	15.36	16.86
802.11n HT40	NA	5795	MIMO	20.57	22.33
802.11ac VHT40	NA	5755	Chain0	18.35	20.35
802.11ac VHT40	NA	5755	Chain1	15.09	16.59
802.11ac VHT40	NA	5755	MIMO	20.03	21.79
802.11ac VHT40	NA	5795	Chain0	18.99	20.99
802.11ac VHT40	NA	5795	Chain1	15.54	17.04
802.11ac VHT40	NA	5795	MIMO	20.61	22.37
802.11ac VHT80	NA	5775	Chain0	18.38	20.38
802.11ac VHT80	NA	5775	Chain1	14.40	15.90
802.11ac VHT80	NA	5775	MIMO	19.84	21.60

Emission Bandwidth

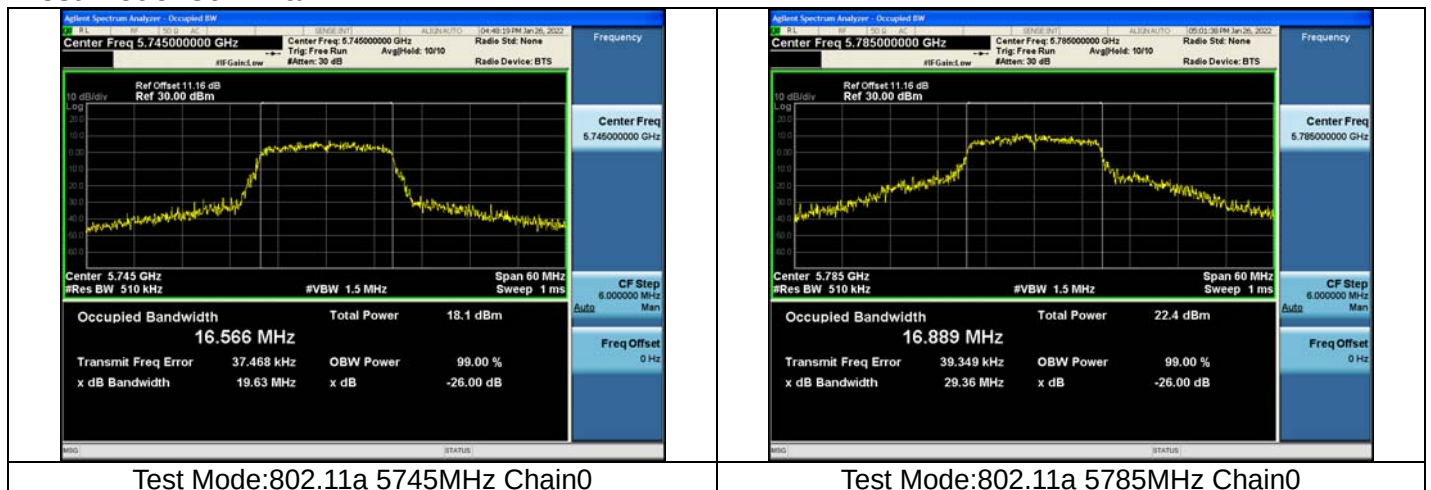
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	19.63	29.36	25.00
802.11a	Chain1	19.94	19.81	20.13
802.11n HT20	Chain0	28.19	28.86	27.33
802.11n HT20	Chain1	20.31	20.52	20.24
802.11ac VHT20	Chain0	28.96	26.99	28.46
802.11ac VHT20	Chain1	20.25	19.81	20.23

Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	40.13	---	59.48
802.11n HT40	Chain1	41.00	---	40.43
802.11ac VHT40	Chain0	67.26	---	60.01
802.11ac VHT40	Chain1	40.54	---	40.27

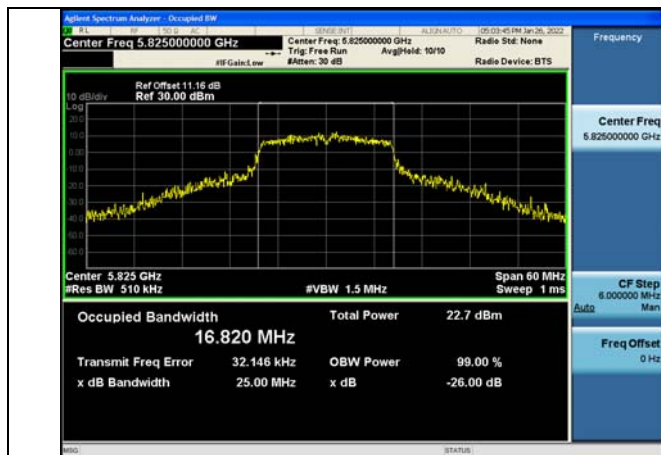
Test Mode	Antenna	26dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	113.47	---	---
802.11ac VHT80	Chain1	81.01	---	---

Test Mode: 802.11a

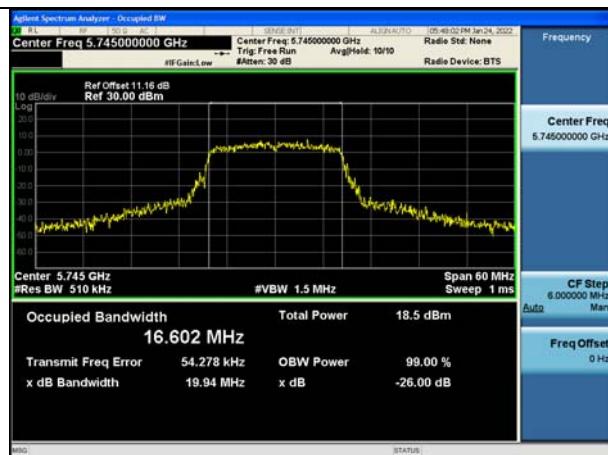


Test Mode:802.11a 5745MHz Chain0

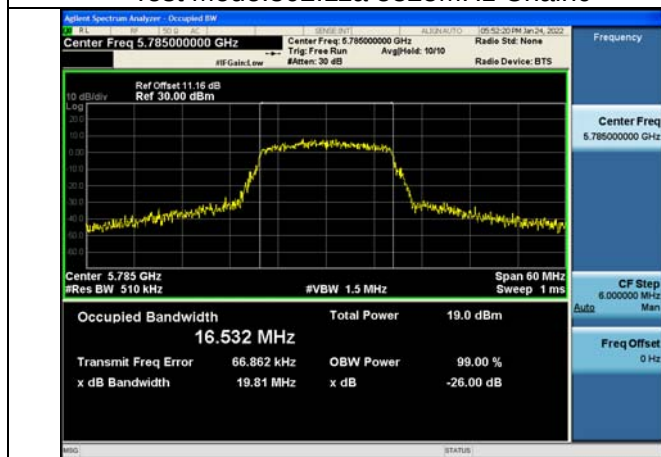
Test Mode:802.11a 5785MHz Chain0



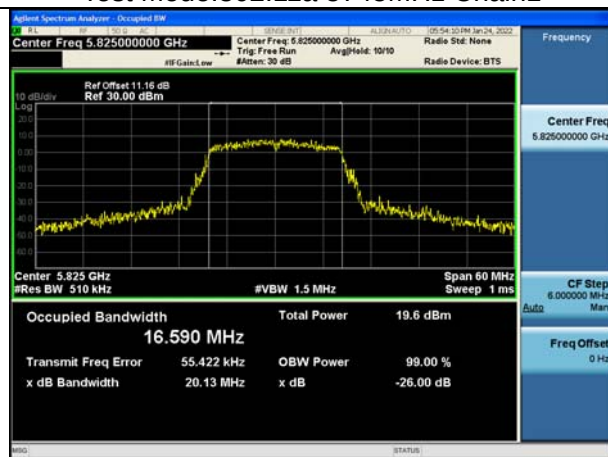
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

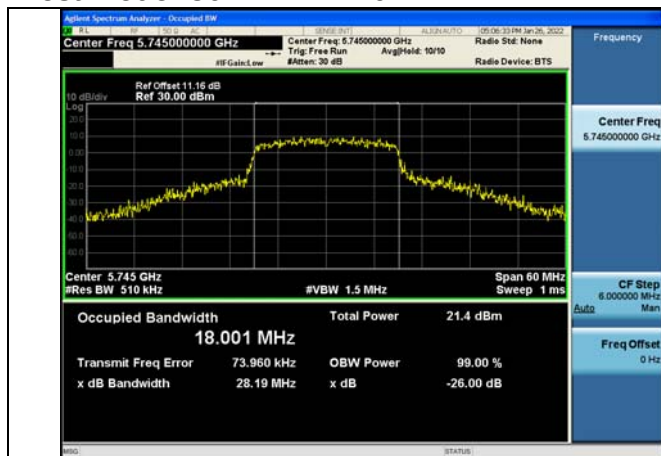


Test Mode:802.11a 5785MHz Chain1



Test Mode:802.11a 5825MHz Chain1

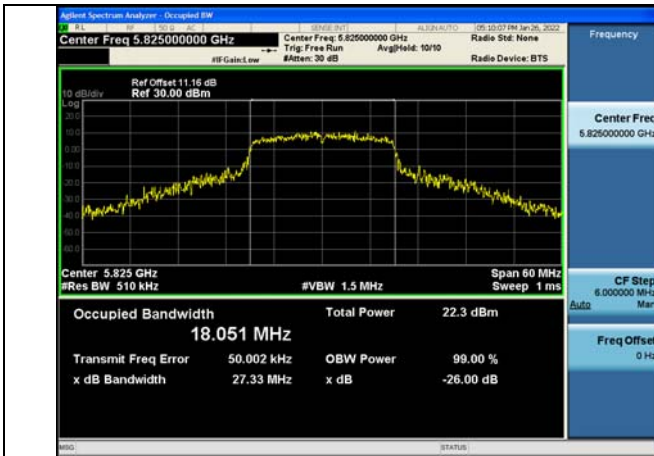
Test Mode: 802.11n HT20



Test Mode:802.11n HT20 5745MHz Chain0



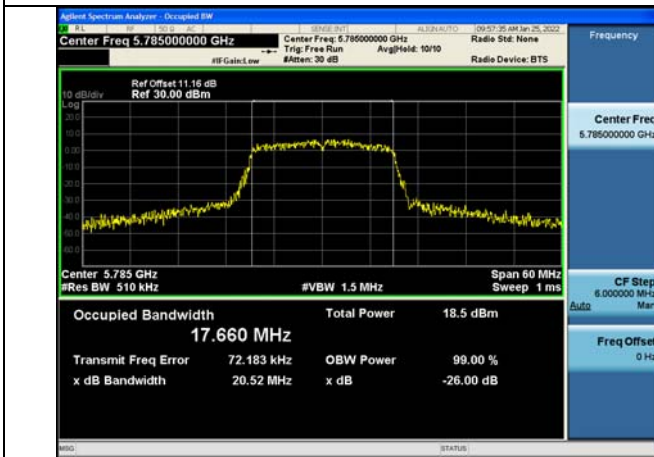
Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1



Test Mode:802.11n HT20 5825MHz Chain1

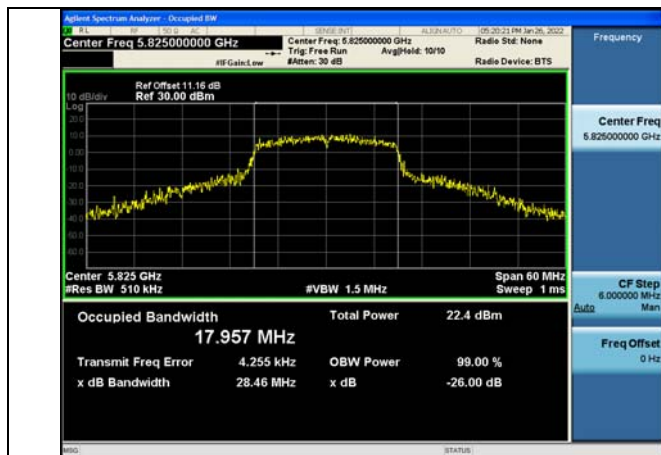
Test Mode: 802.11ac VHT20



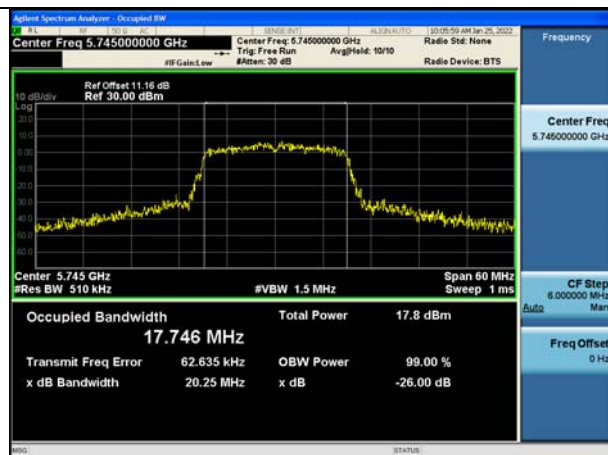
Test Mode:802.11ac VHT20 5745MHz Chain0



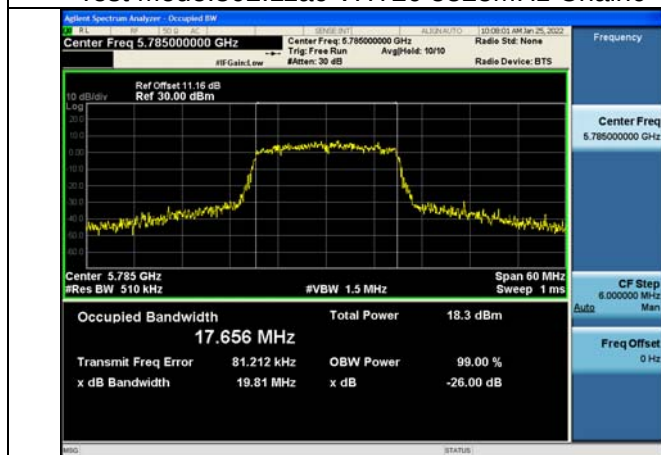
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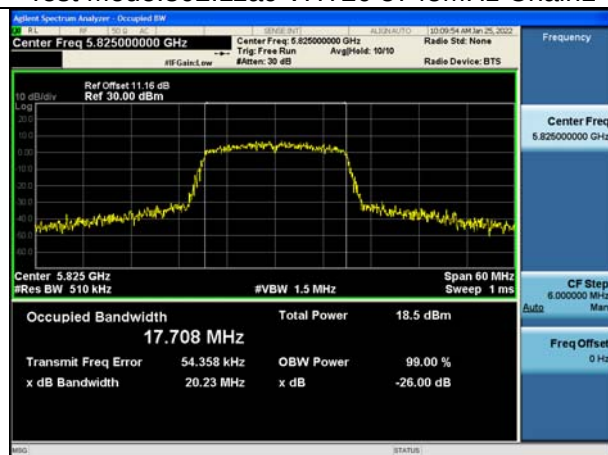
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1



Test Mode:802.11ac VHT20 5825MHz Chain1

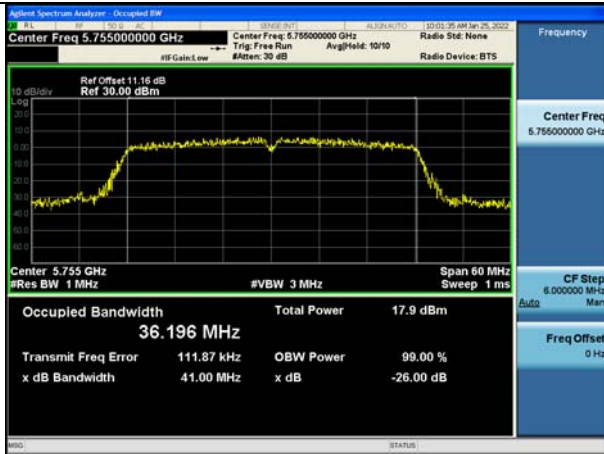
Test Mode: 802.11n HT40



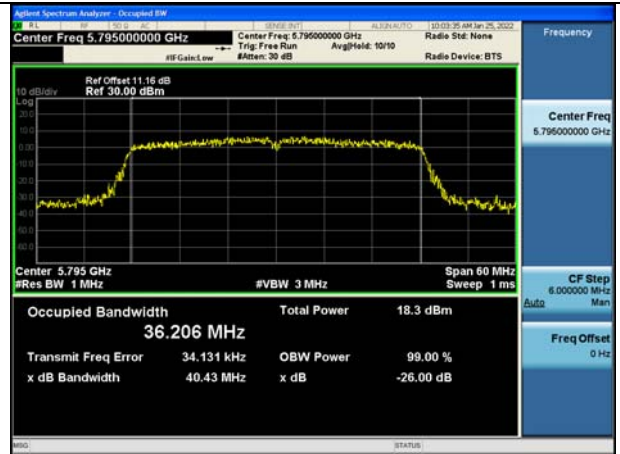
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1



Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0



Test Mode:802.11ac VHT40 5755MHz Chain1

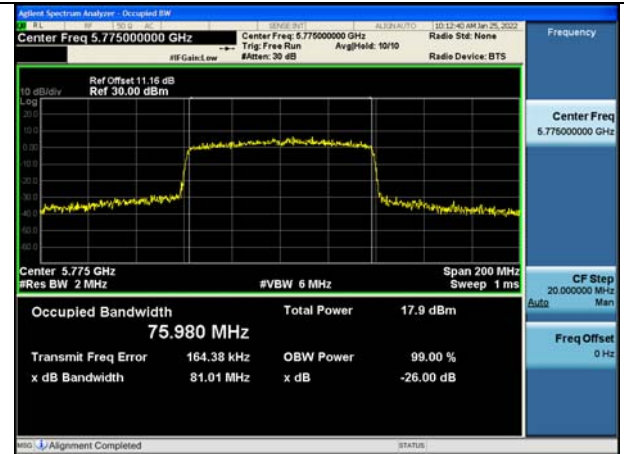


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1

Occupied Bandwidth

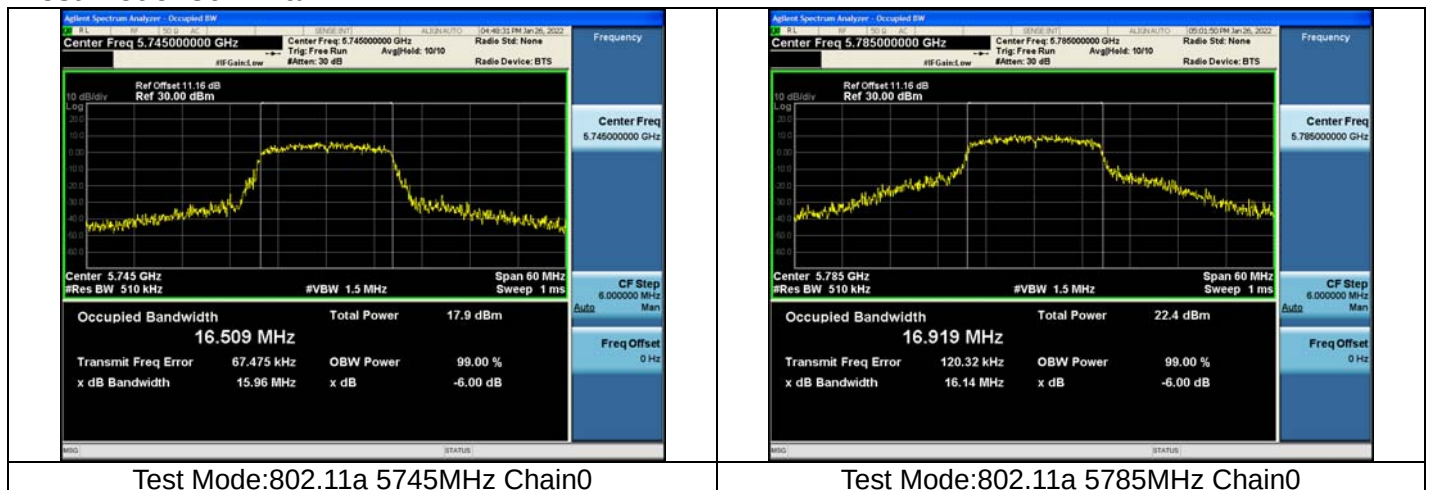
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.509	16.919	16.934
802.11a	Chain1	16.674	16.607	16.545
802.11n HT20	Chain0	17.855	17.996	17.967
802.11n HT20	Chain1	17.734	17.625	17.646
802.11ac VHT20	Chain0	17.927	18.149	17.964
802.11ac VHT20	Chain1	17.721	17.635	17.763

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	36.194	---	36.583
802.11n HT40	Chain1	36.201	---	36.207
802.11ac VHT40	Chain0	36.759	---	36.655
802.11ac VHT40	Chain1	36.176	---	36.079

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	76.758	---	---
802.11ac VHT80	Chain1	75.900	---	---

Test Mode: 802.11a



Test Mode:802.11a 5745MHz Chain0

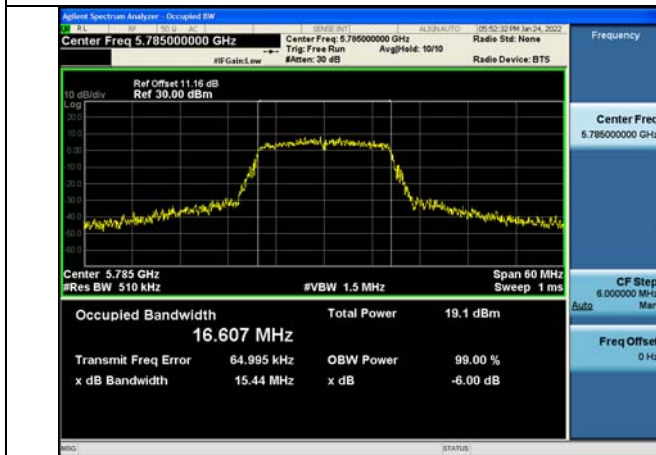
Test Mode:802.11a 5785MHz Chain0



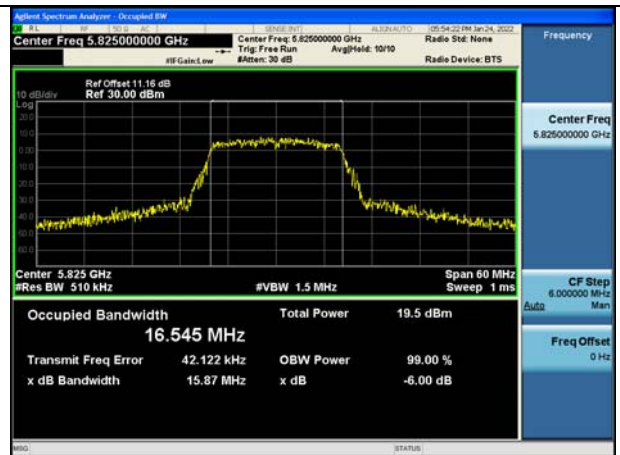
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1



Test Mode:802.11a 5785MHz Chain1



Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



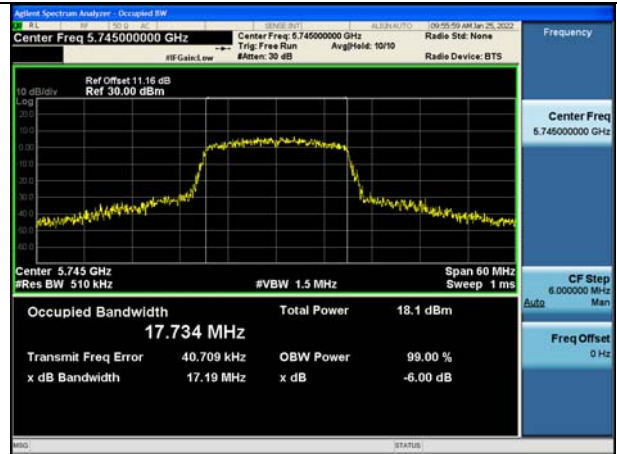
Test Mode:802.11n HT20 5745MHz Chain0



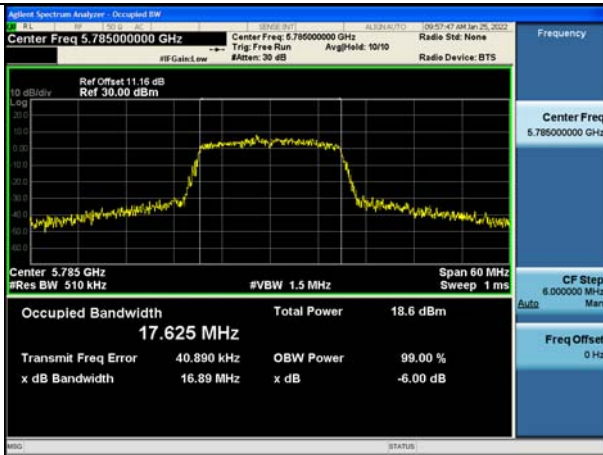
Test Mode:802.11n HT20 5785MHz Chain0



Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1



Test Mode:802.11n HT20 5785MHz Chain1



Test Mode:802.11n HT20 5825MHz Chain1

Test Mode: 802.11ac VHT20



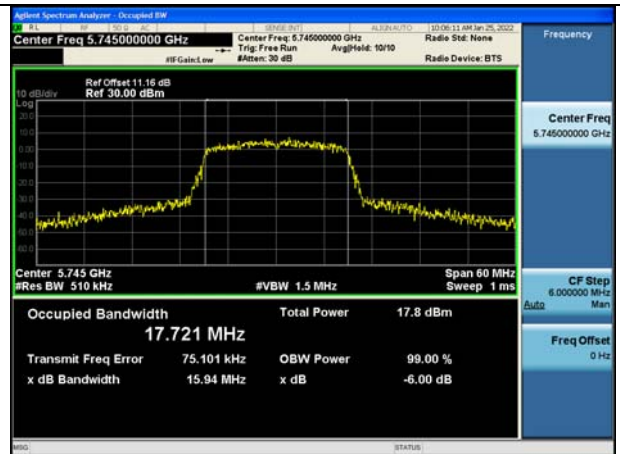
Test Mode:802.11ac VHT20 5745MHz Chain0



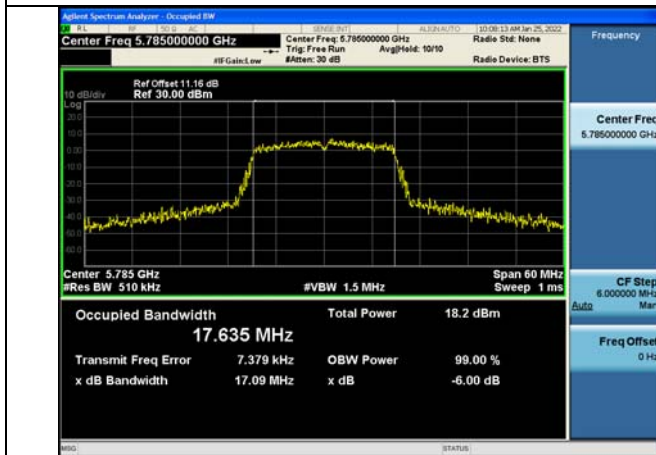
Test Mode:802.11ac VHT20 5785MHz Chain0



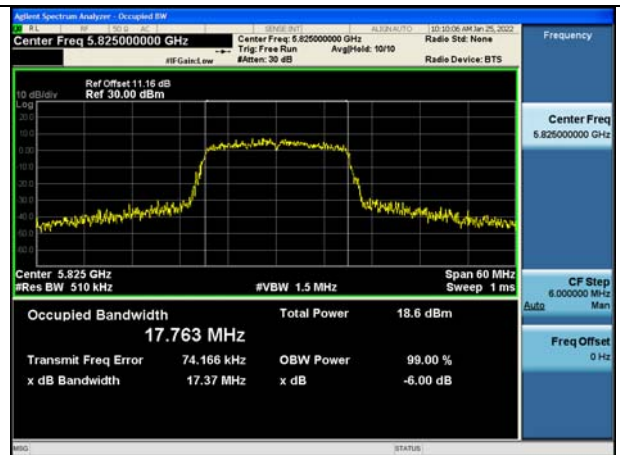
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1



Test Mode:802.11ac VHT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1



Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40



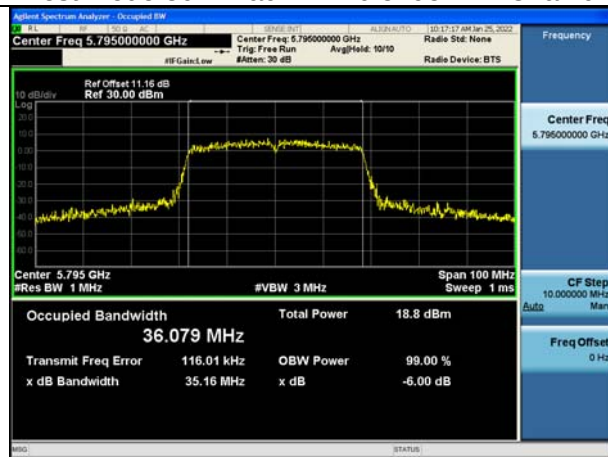
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

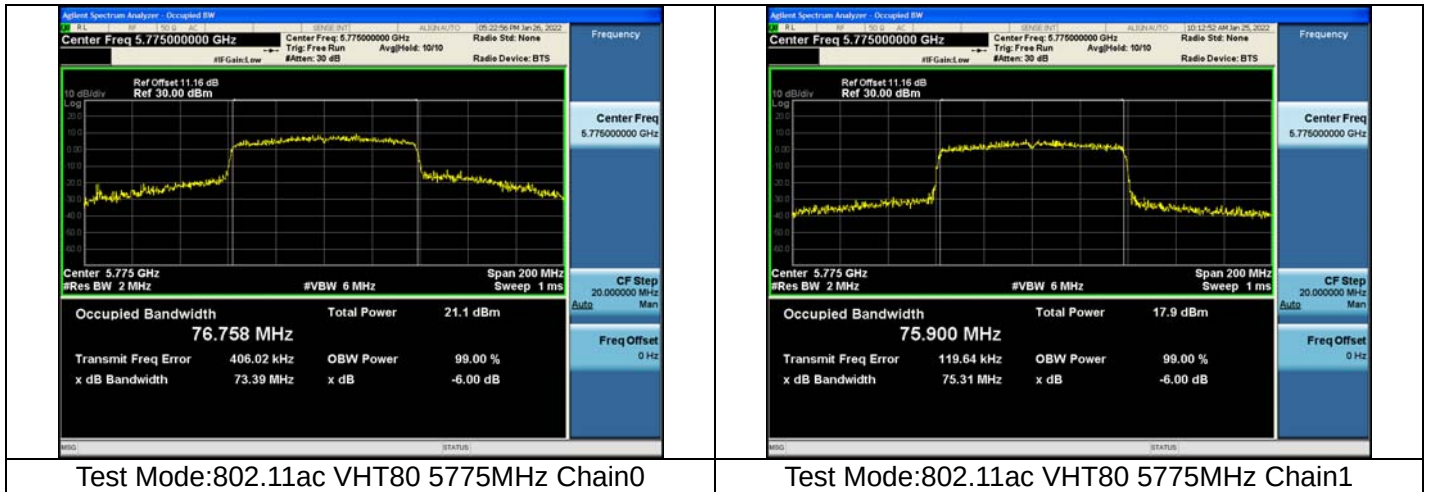


Test Mode:802.11ac VHT40 5755MHz Chain1



Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



6dB Bandwidth

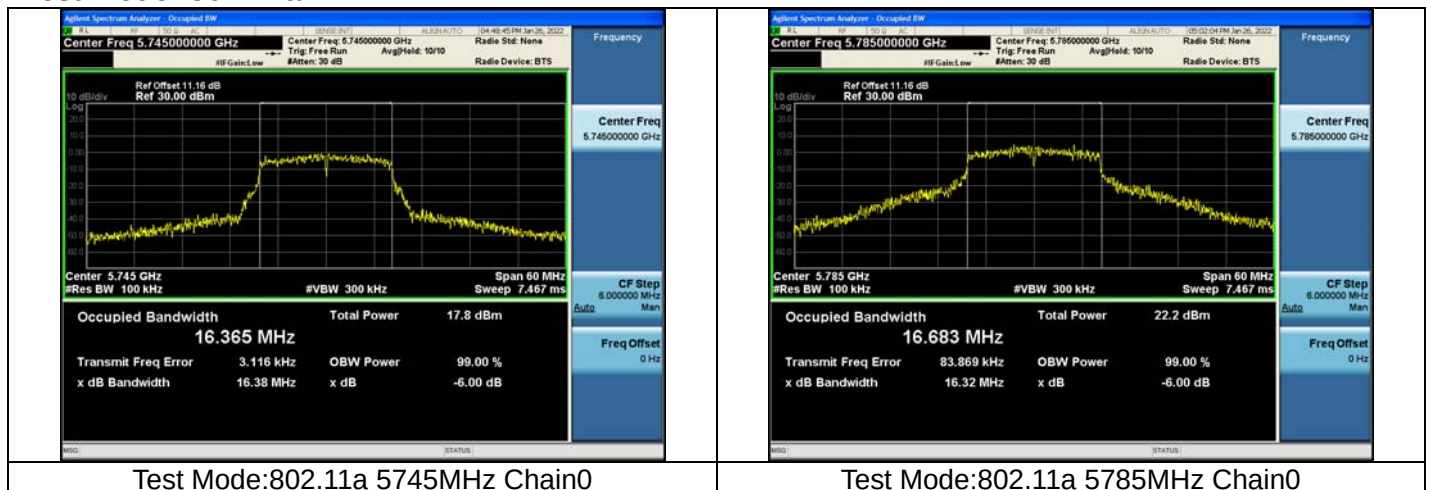
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.667	Channel No.675	Channel No.683
		5745MHz	5785MHz	5825MHz
802.11a	Chain0	16.38	16.32	16.38
802.11a	Chain1	15.70	15.15	16.35
802.11n HT20	Chain0	12.68	15.04	15.98
802.11n HT20	Chain1	17.54	16.65	17.12
802.11ac VHT20	Chain0	16.93	15.93	17.24
802.11ac VHT20	Chain1	14.07	16.04	14.43

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.669	---	Channel No.677
		5755MHz	---	5795MHz
802.11n HT40	Chain0	33.78	---	35.76
802.11n HT40	Chain1	29.60	---	32.84
802.11ac VHT40	Chain0	31.84	---	32.85
802.11ac VHT40	Chain1	34.12	---	32.94

Test Mode	Antenna	6dB Bandwidth (MHz)		
		Channel No.673	---	---
		5775MHz	---	---
802.11ac VHT80	Chain0	70.60	---	---
802.11ac VHT80	Chain1	74.22	---	---

Test Mode: 802.11a

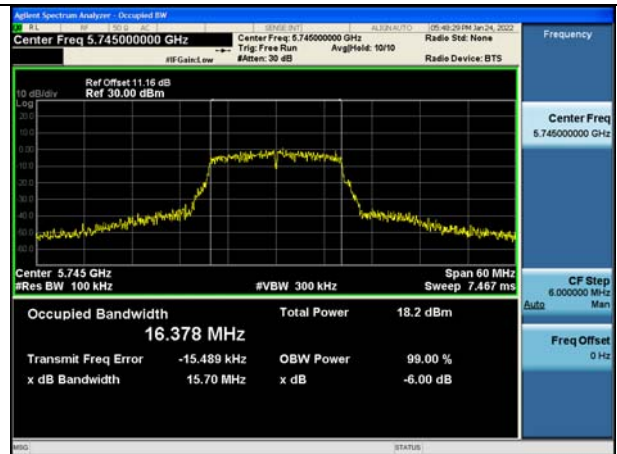


Test Mode:802.11a 5745MHz Chain0

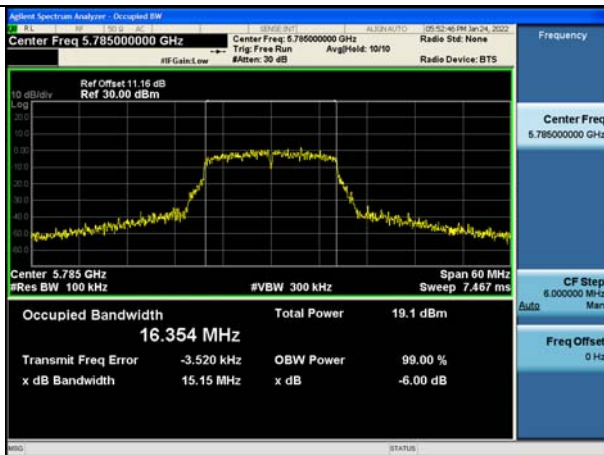
Test Mode:802.11a 5785MHz Chain0



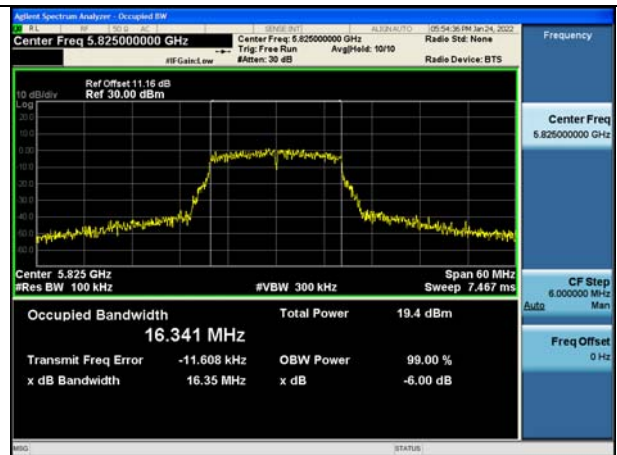
Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

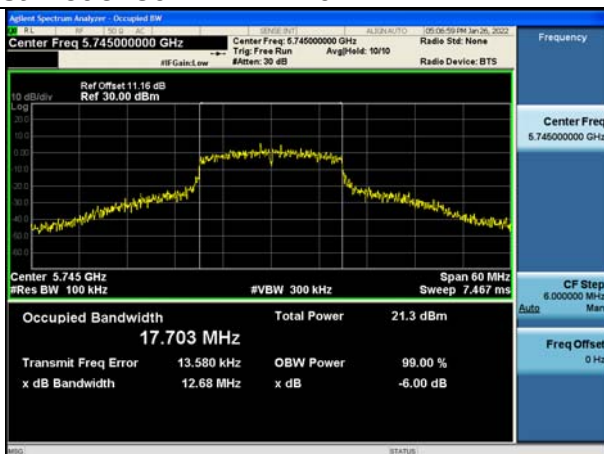


Test Mode:802.11a 5785MHz Chain1

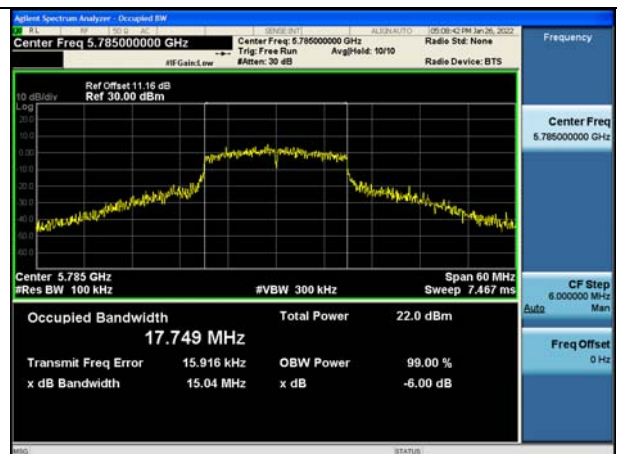


Test Mode:802.11a 5825MHz Chain1

Test Mode: 802.11n HT20



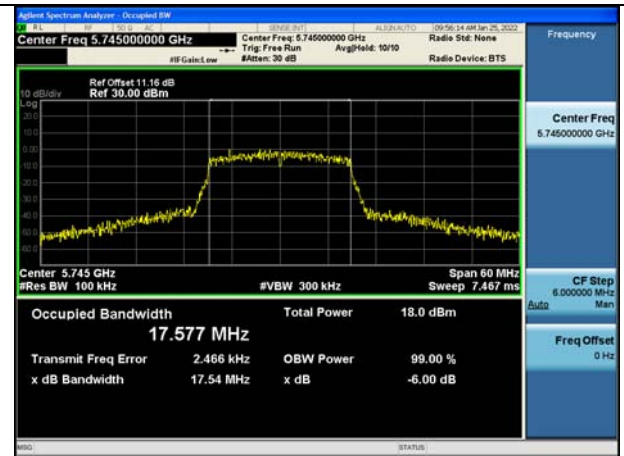
Test Mode:802.11n HT20 5745MHz Chain0



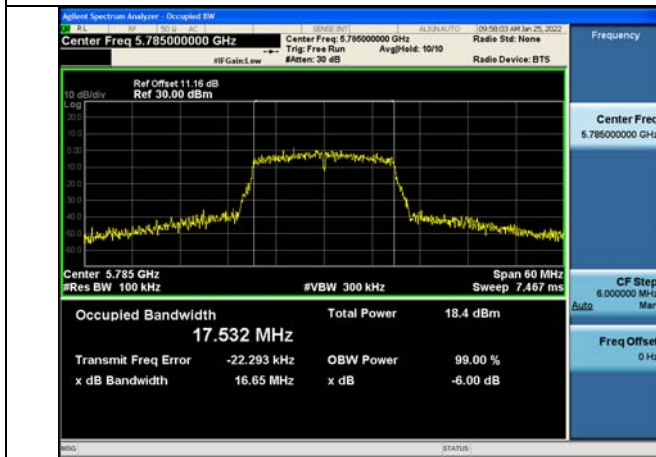
Test Mode:802.11n HT20 5785MHz Chain0



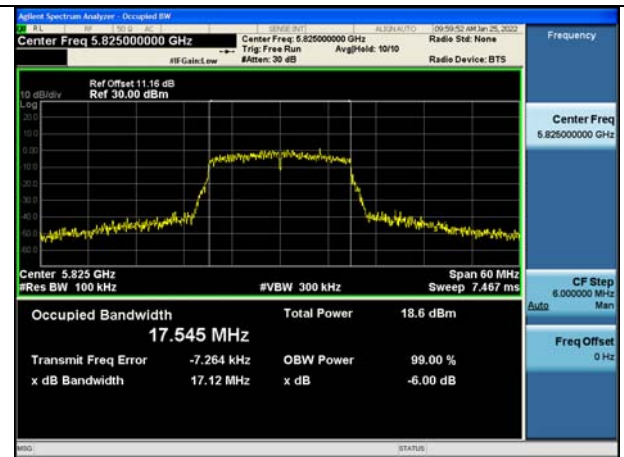
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

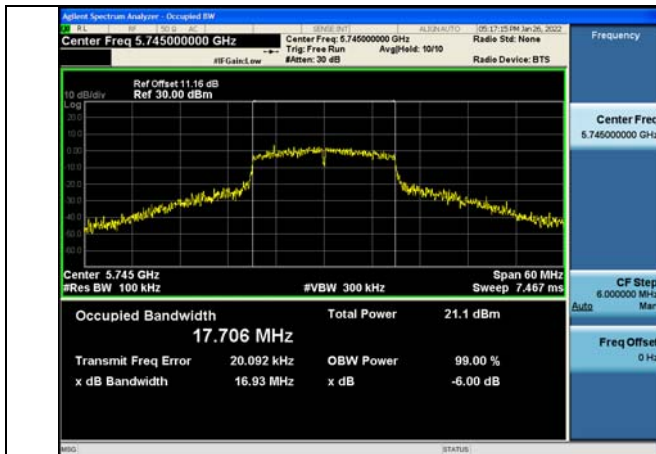


Test Mode:802.11n HT20 5785MHz Chain1

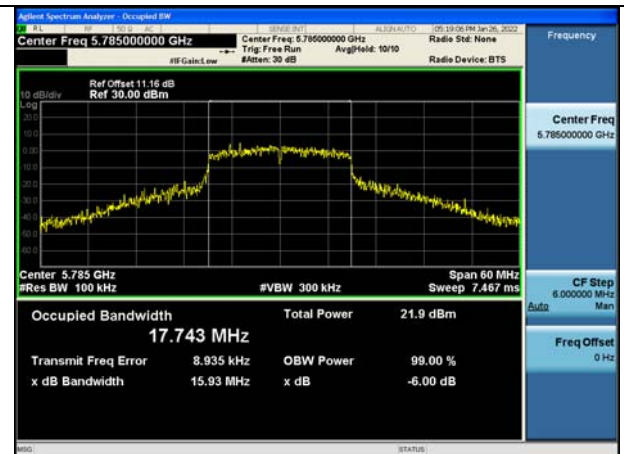


Test Mode:802.11n HT20 5825MHz Chain1

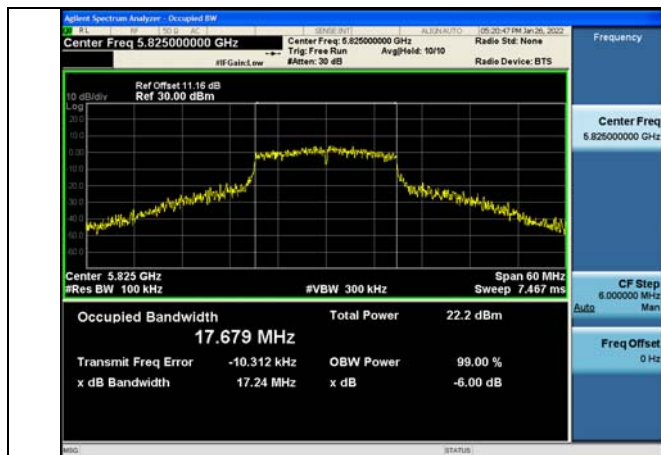
Test Mode: 802.11ac VHT20



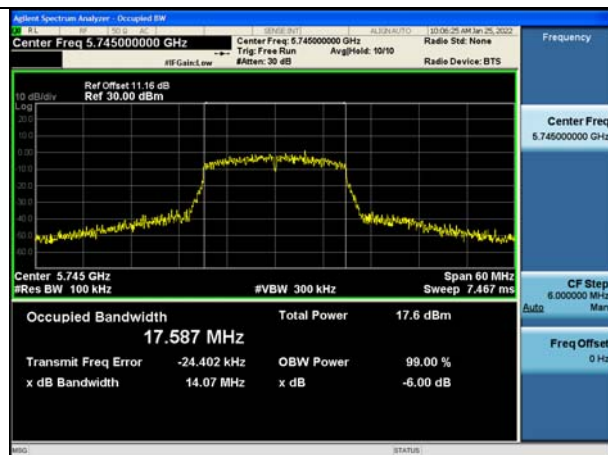
Test Mode:802.11ac VHT20 5745MHz Chain0



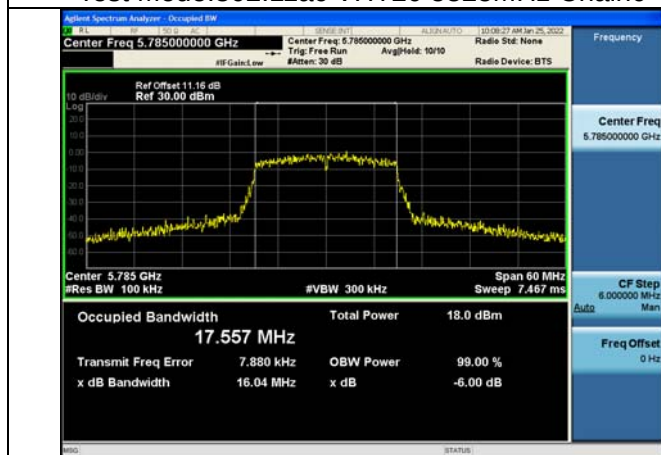
Test Mode:802.11ac VHT20 5785MHz Chain0



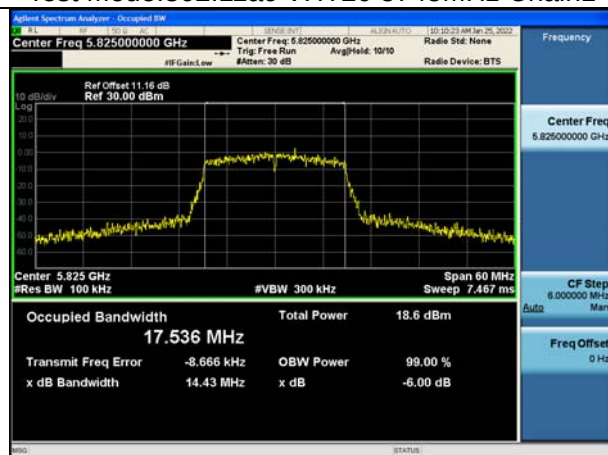
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1

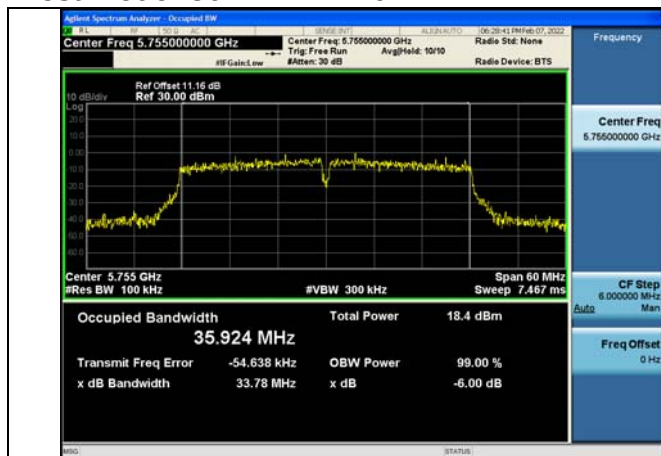


Test Mode:802.11ac VHT20 5785MHz Chain1

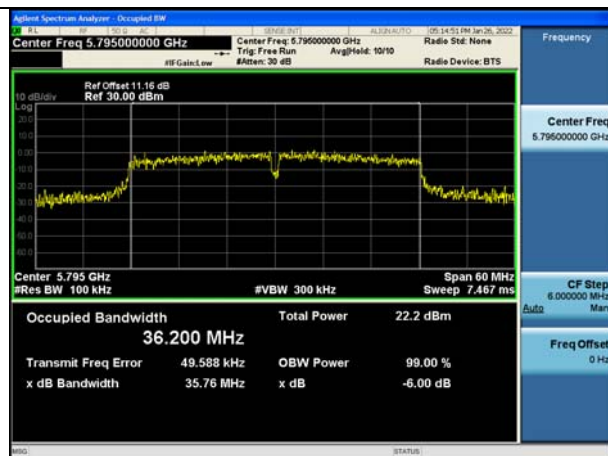


Test Mode:802.11ac VHT20 5825MHz Chain1

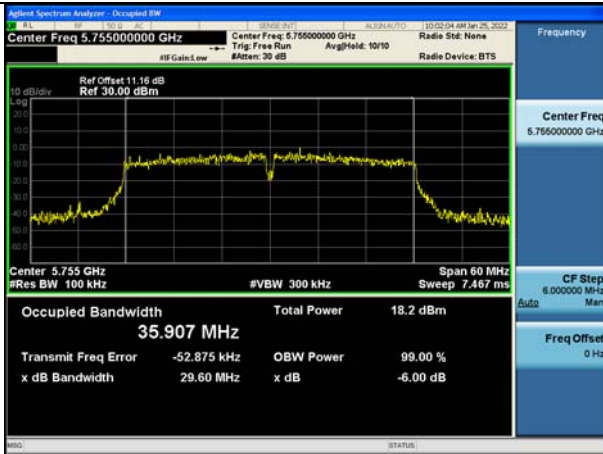
Test Mode: 802.11n HT40



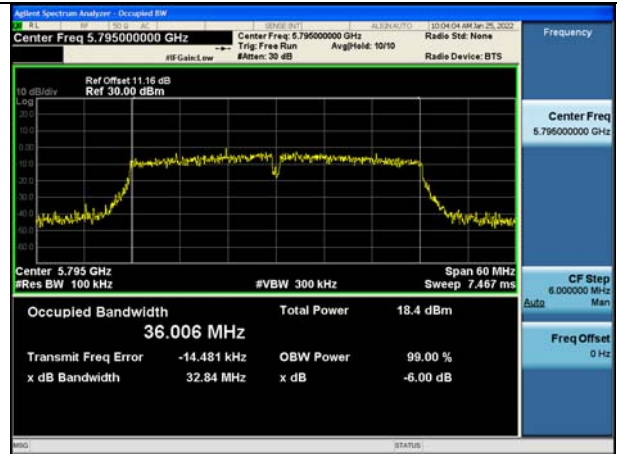
Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1



Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40



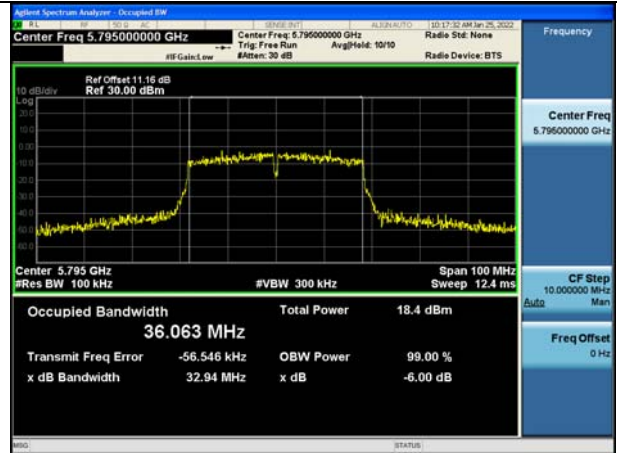
Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

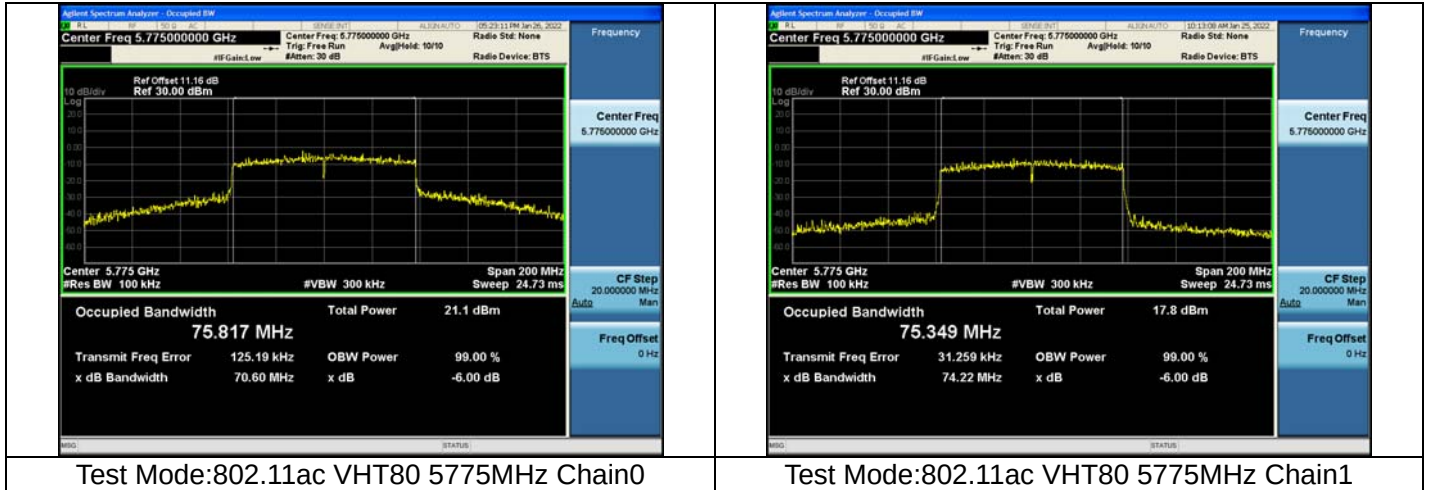


Test Mode:802.11ac VHT40 5755MHz Chain1



Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Transmitter Power Spectral Density

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	5745MHz		5785MHz		5825MHz	
		Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)
802.11a	Chain0	0	3.066	0	3.083	0	2.900
802.11a	Chain1	0	4.189	0	4.443	0	4.129
802.11n HT20	Chain0	0	2.720	0	2.822	0	2.609
802.11n HT20	Chain1	0	4.000	0	4.185	0	4.234
802.11n HT20	MIMO	0	6.417	0	6.567	0	6.507
802.11a c VHT20	Chain0	0	2.780	0	2.859	0	2.572
802.11a c VHT20	Chain1	0	3.964	0	4.180	0	3.847
802.11a c VHT20	MIMO	0	6.423	0	6.580	0	6.266

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

Test Mode	Antenna	5755MHz		---		5795MHz	
		Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)
802.11n HT40	Chain0	0.12	0.159	---	---	0.12	-0.233
802.11n HT40	Chain1	0.12	1.376	---	---	0.12	1.407
802.11n HT40	MIMO	0.12	3.820	---	---	0.12	3.674
802.11a c VHT40	Chain0	0.12	-0.321	---	---	0.12	-0.517
802.11a c VHT40	Chain1	0.12	1.075	---	---	0.12	0.942
802.11a c VHT40	MIMO	0.12	3.443	---	---	0.12	3.284

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

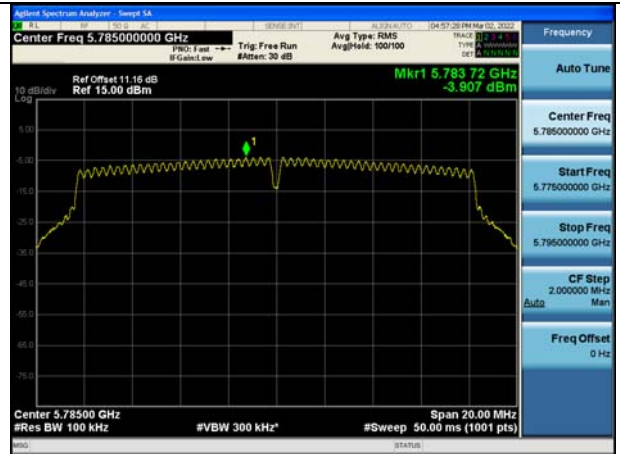
Test Mode	Antenna	5775MHz		---		---	
		Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)	Correction Factor(dB)	Power Density (dBm/500KHz)
802.11a c VHT80	Chain0	0.12	-2.930	---	---	---	---
802.11a c VHT80	Chain1	0.12	-1.949	---	---	---	---
802.11a c VHT80	MIMO	0.12	0.598	---	---	---	---

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

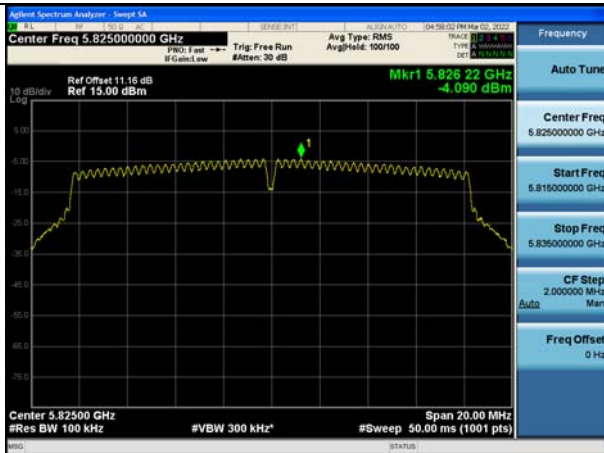
Test Mode: 802.11a



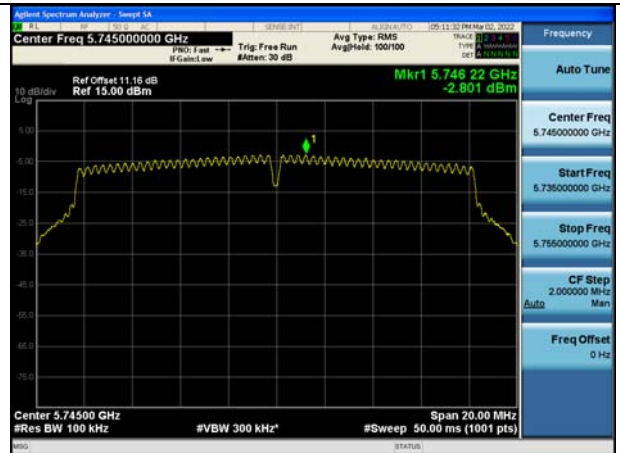
Test Mode:802.11a 5745MHz Chain0



Test Mode:802.11a 5785MHz Chain0



Test Mode:802.11a 5825MHz Chain0



Test Mode:802.11a 5745MHz Chain1

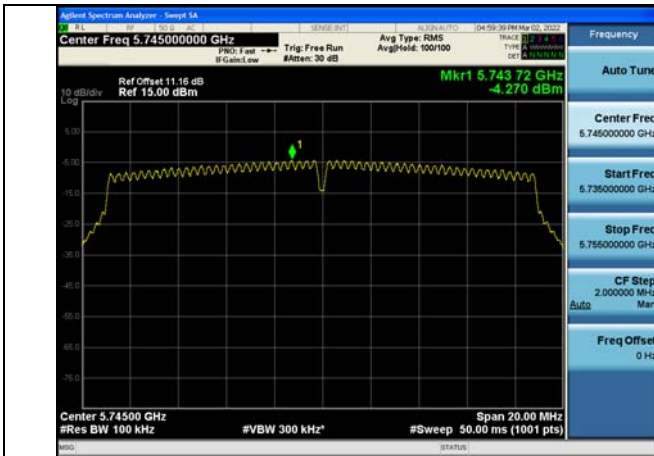


Test Mode:802.11a 5785MHz Chain1



Test Mode:802.11a 5825MHz Chain1

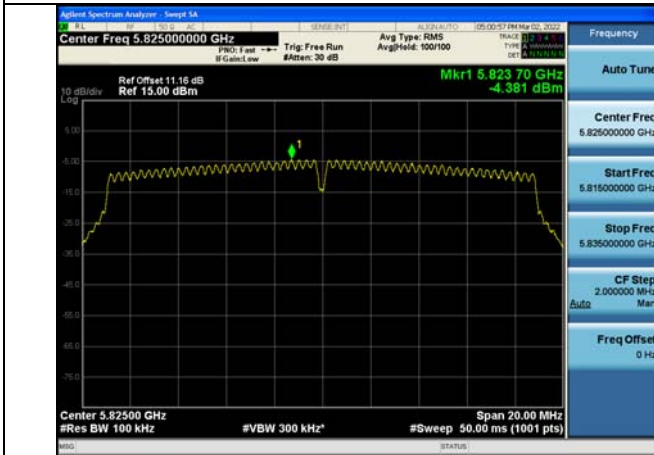
Test Mode: 802.11n HT20



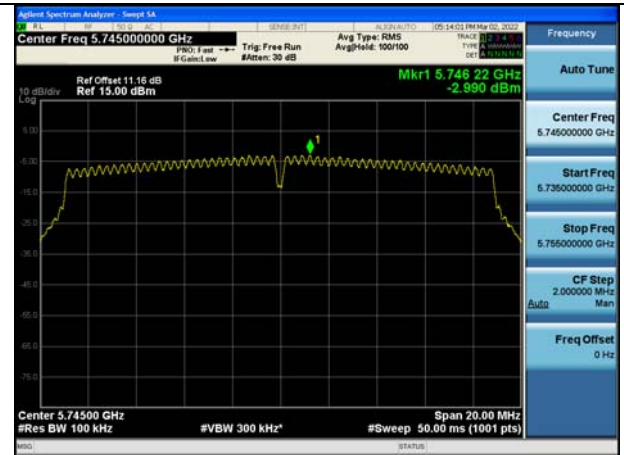
Test Mode:802.11n HT20 5745MHz Chain0



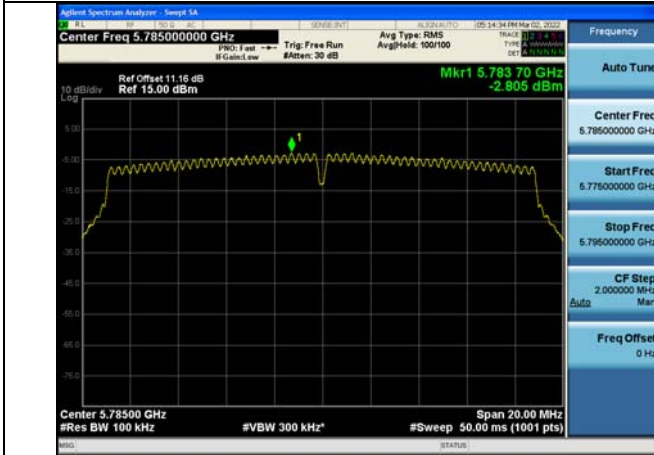
Test Mode:802.11n HT20 5785MHz Chain0



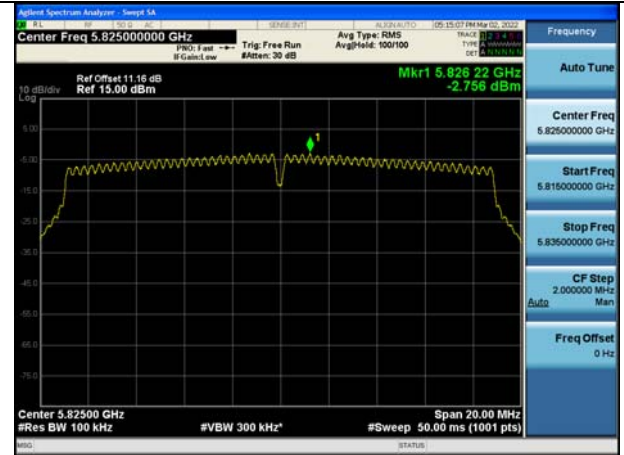
Test Mode:802.11n HT20 5825MHz Chain0



Test Mode:802.11n HT20 5745MHz Chain1

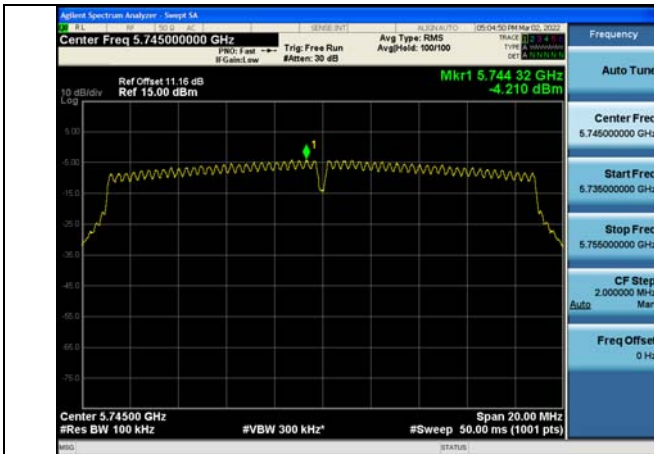


Test Mode:802.11n HT20 5785MHz Chain1

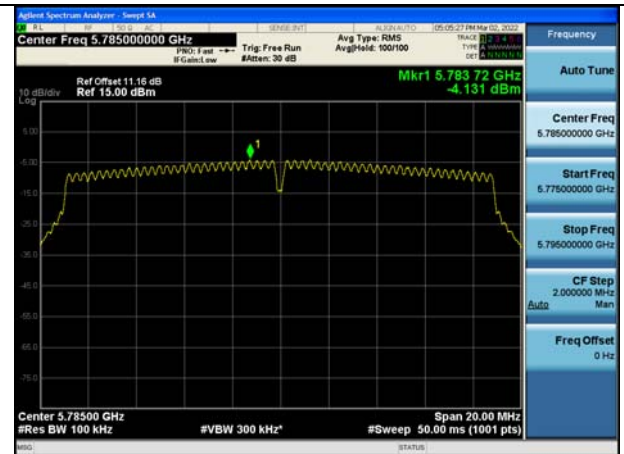


Test Mode:802.11n HT20 5825MHz Chain1

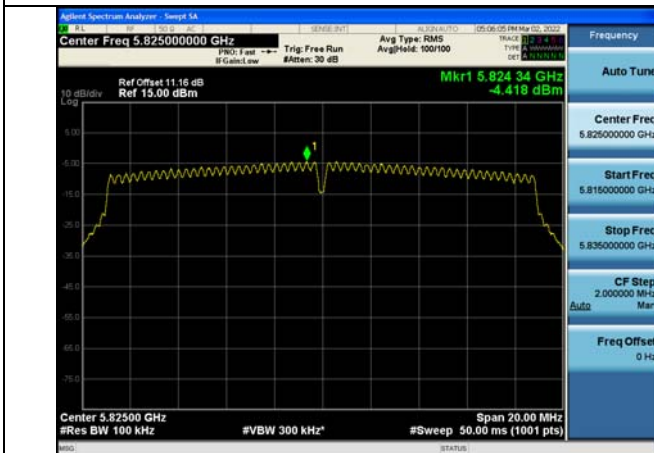
Test Mode: 802.11ac VHT20



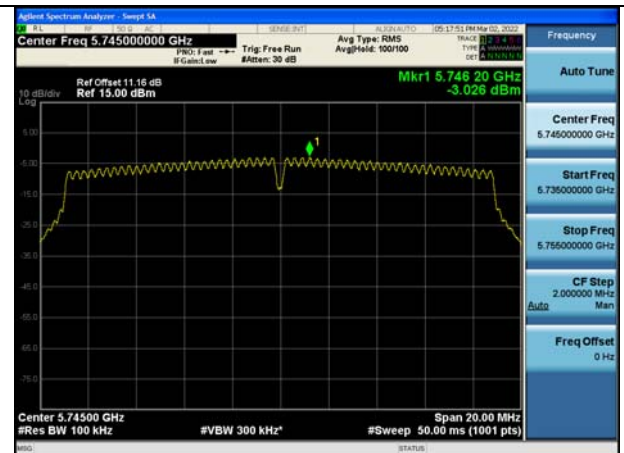
Test Mode:802.11ac VHT20 5745MHz Chain0



Test Mode:802.11ac VHT20 5785MHz Chain0



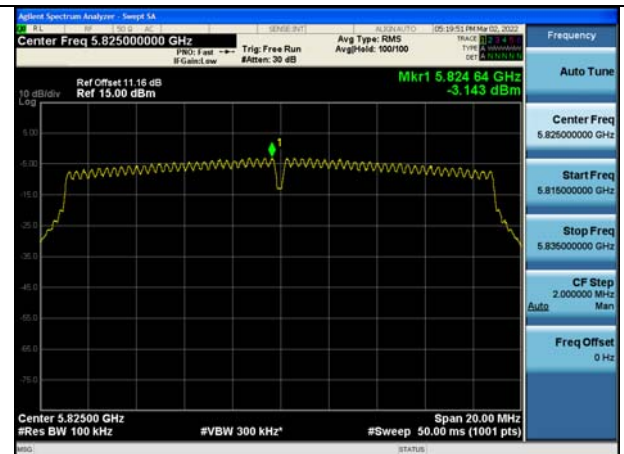
Test Mode:802.11ac VHT20 5825MHz Chain0



Test Mode:802.11ac VHT20 5745MHz Chain1



Test Mode:802.11ac VHT20 5785MHz Chain1

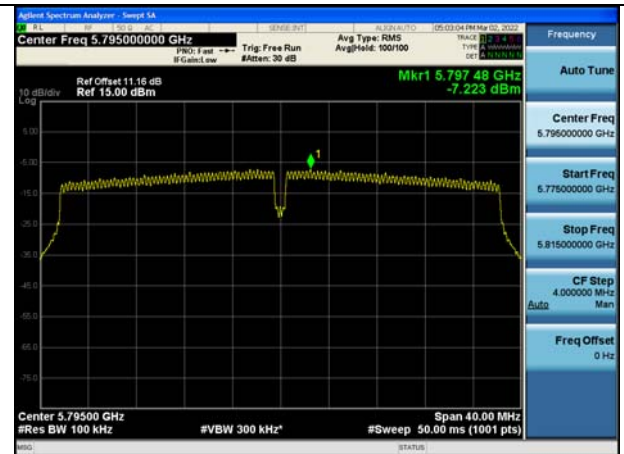


Test Mode:802.11ac VHT20 5825MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5755MHz Chain0



Test Mode:802.11n HT40 5795MHz Chain0



Test Mode:802.11n HT40 5755MHz Chain1

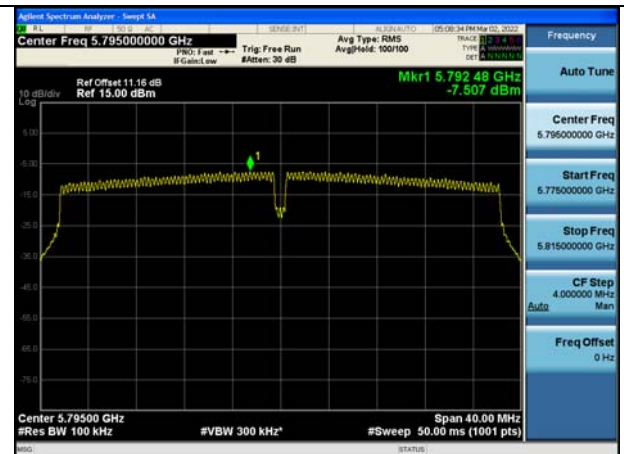


Test Mode:802.11n HT40 5795MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5755MHz Chain0



Test Mode:802.11ac VHT40 5795MHz Chain0

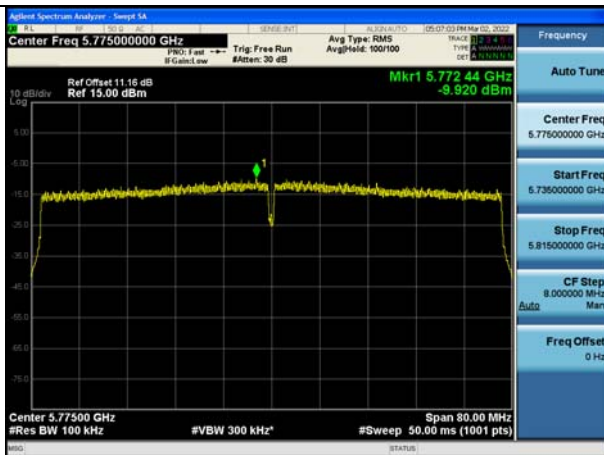


Test Mode:802.11ac VHT40 5755MHz Chain1

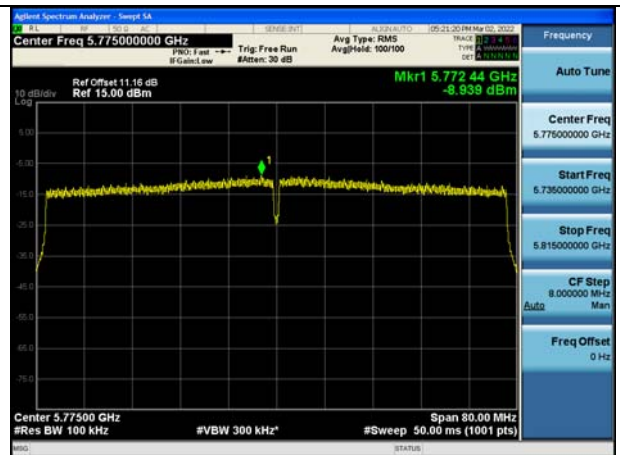


Test Mode:802.11ac VHT40 5795MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5775MHz Chain0



Test Mode:802.11ac VHT80 5775MHz Chain1