APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	99.96%	0	Fig.1
802.11a	5180	99.96%	0	Fig.2
802.11n HT20	5180	99.99%	0	Fig.3
802.11n HT20	5180	99.99%	0	Fig.4
802.11ac VHT20	5180	100%	0	Fig.5
802.11ac VHT20	5180	99.99%	0	Fig.6
802.11ax HE20	5180	99.98%	0	Fig.7
802.11ax HE20	5180	99.97%	0	Fig.8
802.11n HT40	5190	99.99%	0	Fig.9
802.11n HT40	5190	99.97%	0	Fig.10
802.11ac VHT40	5190	99.98%	0	Fig.11
802.11ac VHT40	5190	99.98%	0	Fig.12
802.11ax HE40	5190	99.99%	0	Fig.13
802.11ax HE40	5190	99.98%	0	Fig.14
802.11ac VHT80	5210	99.95%	0	Fig.15
802.11ac VHT80	5210	99.94%	0	Fig.16
802.11ax HE80	5210	99.98%	0	Fig.17
802.11ax HE80	5210	99.98%	0	Fig.18
802.11ac VHT160	5250	99.92%	0	Fig.19
802.11ac VHT160	5250	99.92%	0	Fig.20
802.11ax HE160	5250	99.97%	0	Fig.21
802.11ax HE160	5250	99.96%	0	Fig.22

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

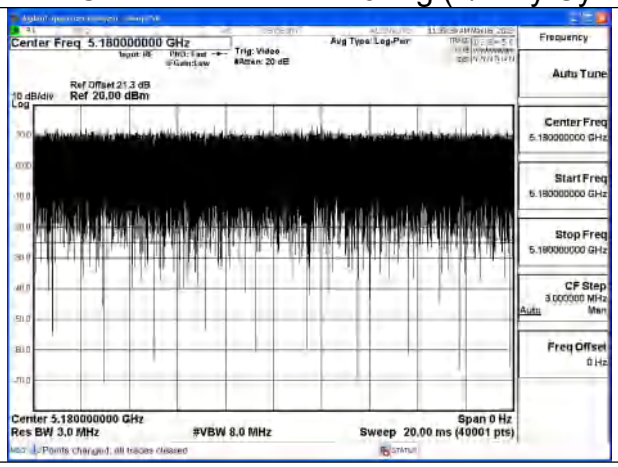


Fig.1

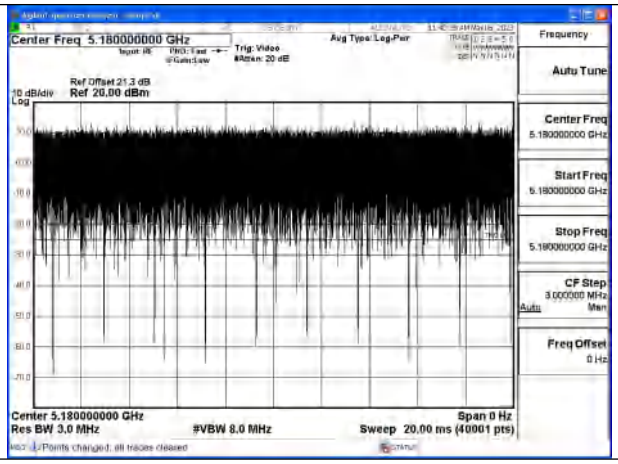


Fig.2

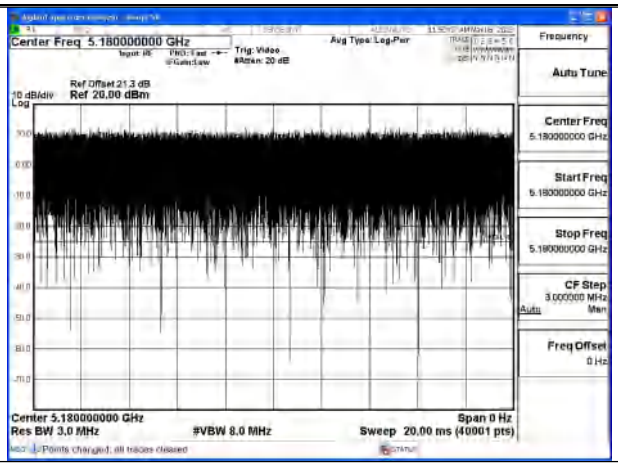


Fig.3

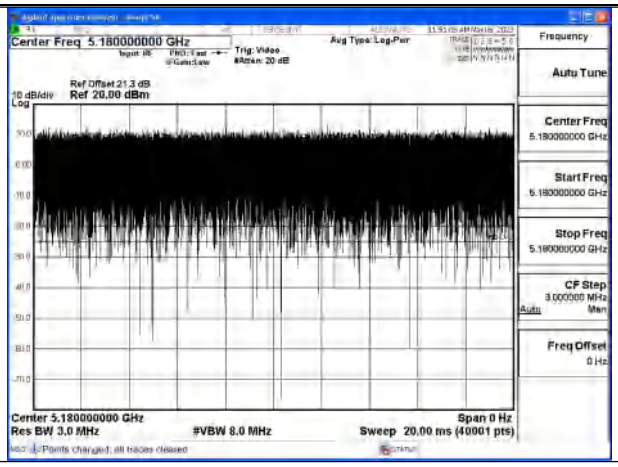


Fig.4

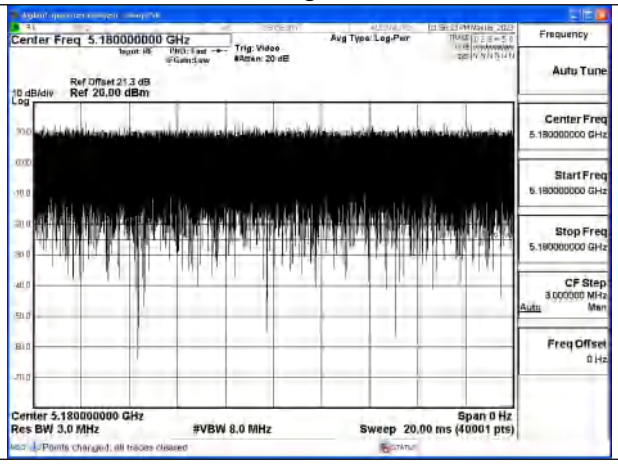


Fig.5

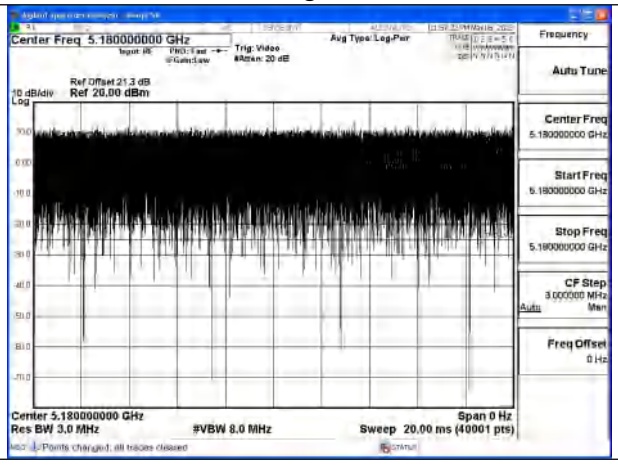


Fig.6

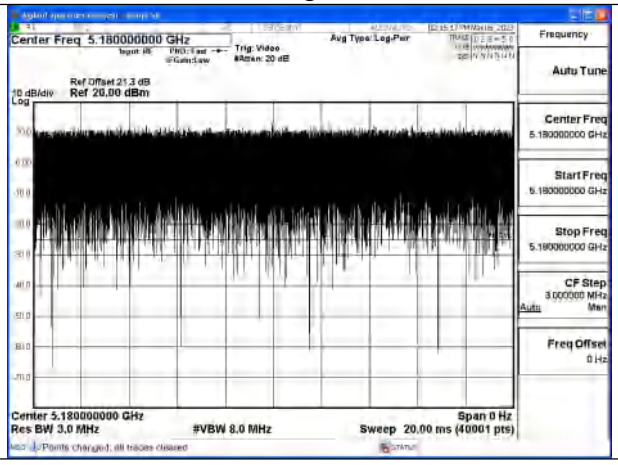


Fig.7

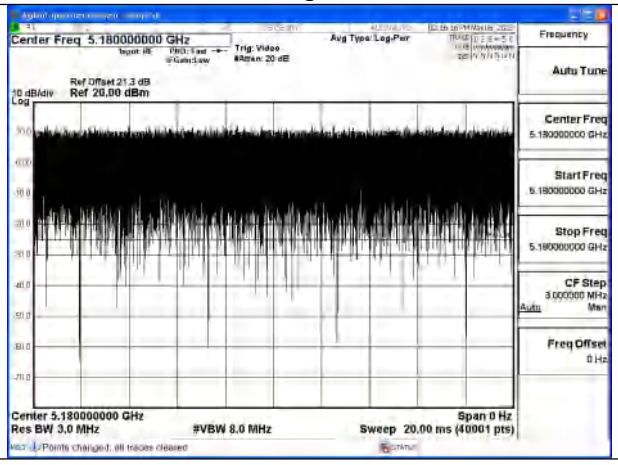


Fig.8

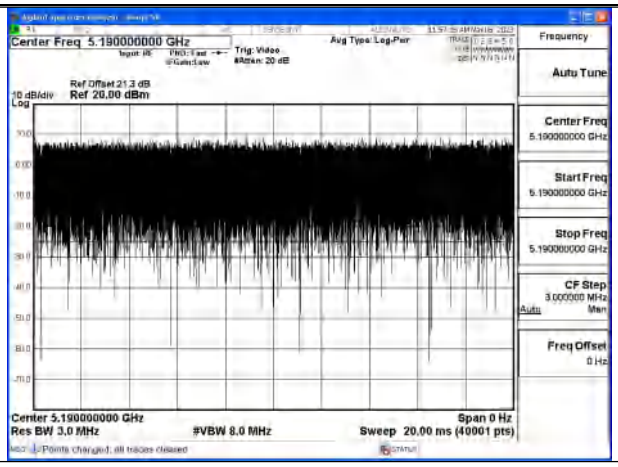


Fig.9

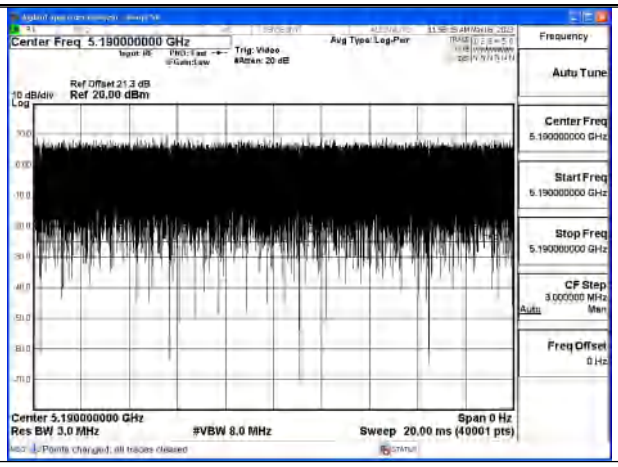


Fig.10

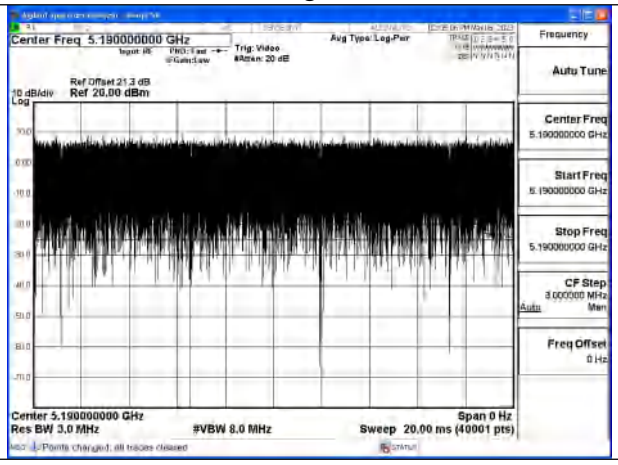


Fig.11

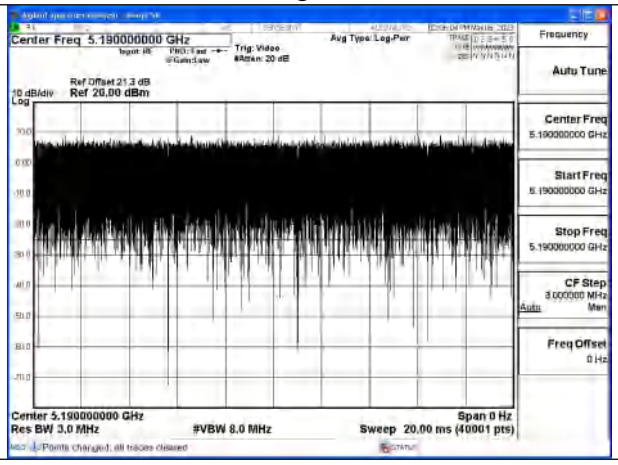


Fig.12

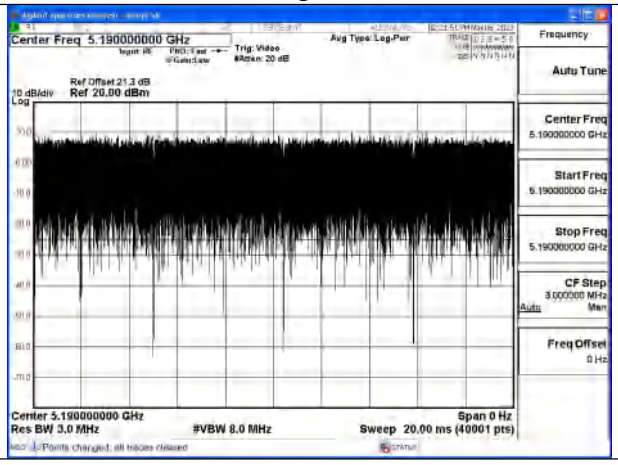


Fig.13

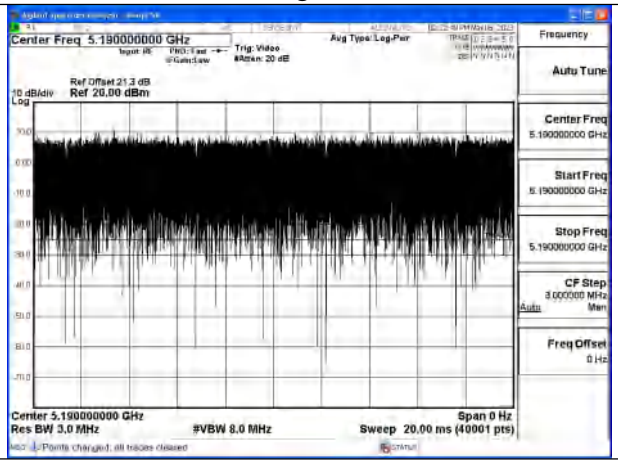


Fig.14

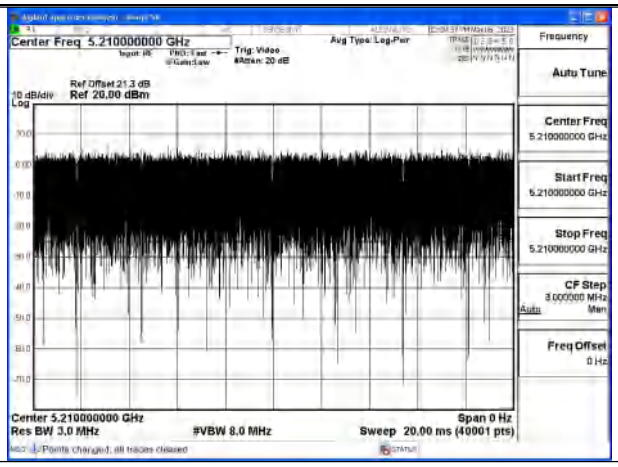


Fig.15

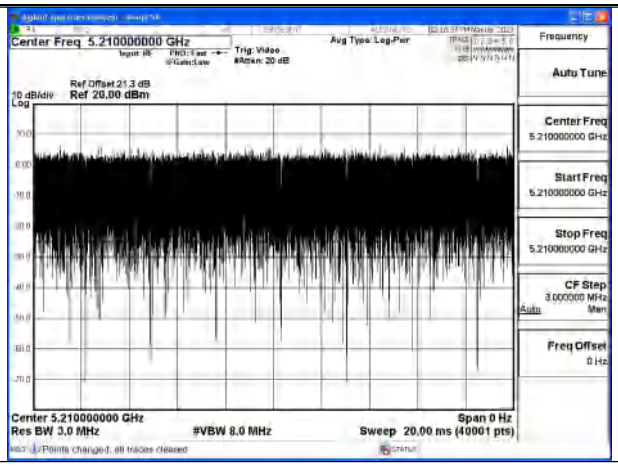


Fig.16

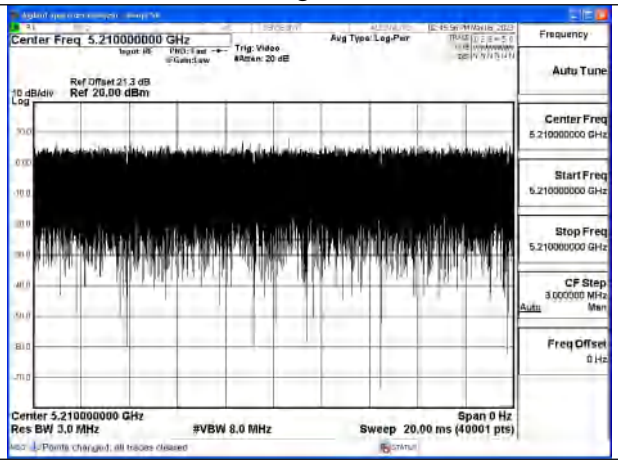


Fig.17

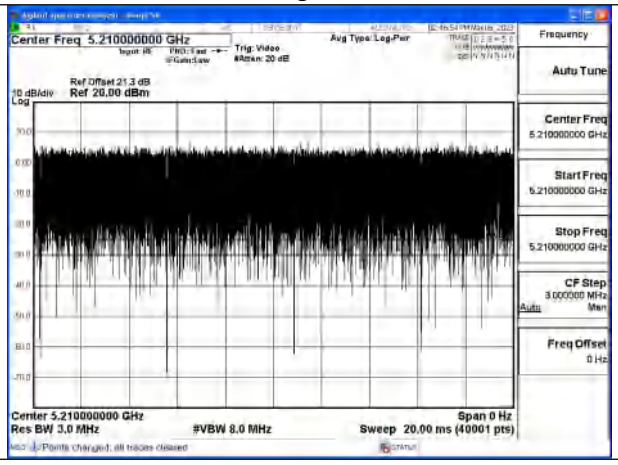


Fig.18

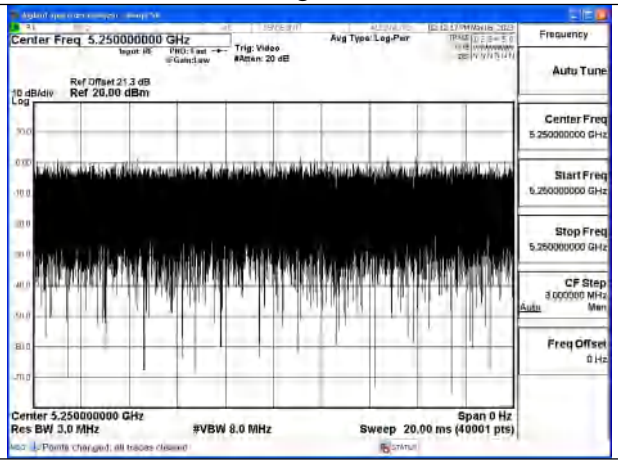


Fig.19

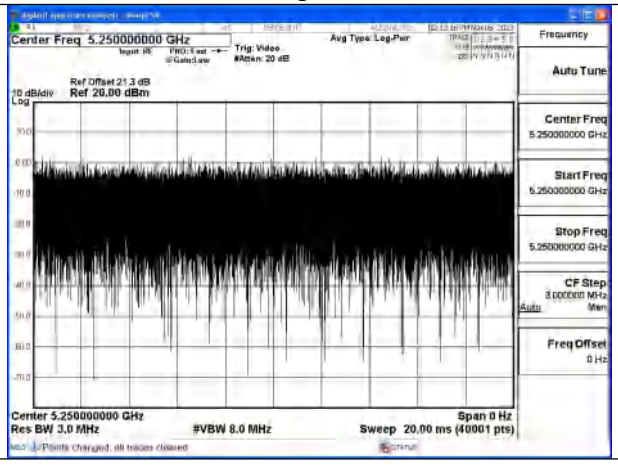


Fig.20

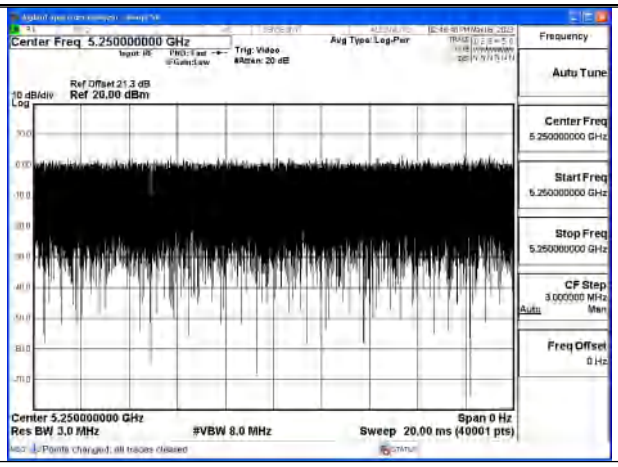

Center Freq 5.250000000 GHz
Trig: Video
#Atten: 20 dB
Avg Type: Log-Pwr
Ref Offset 21.3 dB
10 dB/div Ref 20.00 dBm
Log
Center 5.250000000 GHz
Res BW 3.0 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (40001 pts)
Frequency
Auto Tune
Center Freq
Start Freq
Stop Freq
CF Step
Freq Offset

Fig.21

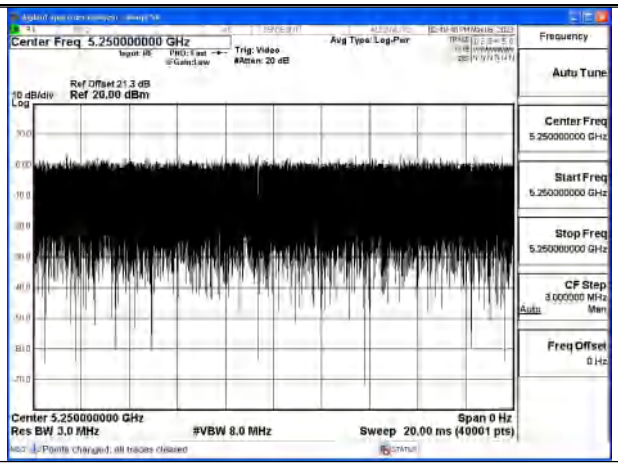

Center Freq 5.250000000 GHz
Trig: Video
#Atten: 20 dB
Avg Type: Log-Pwr
Ref Offset 21.3 dB
10 dB/div Ref 20.00 dBm
Log
Center 5.250000000 GHz
Res BW 3.0 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (40001 pts)
Frequency
Auto Tune
Center Freq
Start Freq
Stop Freq
CF Step
Freq Offset

Fig.22

Output Power

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	10.47	6.57
802.11a	NA	5180	Chain1	10.38	4.38
802.11a	NA	5220	Chain0	10.49	6.59
802.11a	NA	5220	Chain1	10.39	4.39
802.11a	NA	5240	Chain0	10.54	6.64
802.11a	NA	5240	Chain1	10.59	4.59
802.11n HT20	NA	5180	Chain0	10.38	6.48
802.11n HT20	NA	5180	Chain1	10.41	4.41
802.11n HT20	NA	5180	MIMO	13.41	8.59
802.11n HT20	NA	5220	Chain0	10.54	6.64
802.11n HT20	NA	5220	Chain1	10.37	4.37
802.11n HT20	NA	5220	MIMO	13.47	8.65
802.11n HT20	NA	5240	Chain0	10.58	6.68
802.11n HT20	NA	5240	Chain1	10.67	4.67
802.11n HT20	NA	5240	MIMO	13.64	8.82
802.11ac VHT20	NA	5180	Chain0	10.46	6.56
802.11ac VHT20	NA	5180	Chain1	10.40	4.40
802.11ac VHT20	NA	5180	MIMO	13.44	8.62
802.11ac VHT20	NA	5220	Chain0	10.52	6.62
802.11ac VHT20	NA	5220	Chain1	10.52	4.52
802.11ac VHT20	NA	5220	MIMO	13.53	8.71
802.11ac VHT20	NA	5240	Chain0	10.59	6.69
802.11ac VHT20	NA	5240	Chain1	10.58	4.58
802.11ac VHT20	NA	5240	MIMO	13.60	8.78
802.11n HT40	NA	5190	Chain0	10.57	6.67
802.11n HT40	NA	5190	Chain1	10.42	4.42
802.11n HT40	NA	5190	MIMO	13.51	8.69
802.11n HT40	NA	5230	Chain0	10.72	6.82
802.11n HT40	NA	5230	Chain1	10.49	4.49
802.11n HT40	NA	5230	MIMO	13.62	8.80
802.11ac VHT40	NA	5190	Chain0	10.59	6.69
802.11ac VHT40	NA	5190	Chain1	10.46	4.46
802.11ac VHT40	NA	5190	MIMO	13.54	8.72
802.11ac VHT40	NA	5230	Chain0	10.64	6.74
802.11ac VHT40	NA	5230	Chain1	10.55	4.55
802.11ac VHT40	NA	5230	MIMO	13.61	8.79
802.11ac VHT80	NA	5210	Chain0	10.25	6.35
802.11ac VHT80	NA	5210	Chain1	10.09	4.09
802.11ac VHT80	NA	5210	MIMO	13.18	8.36
802.11ac VHT160	NA	5250	Chain0	10.69	6.79
802.11ac VHT160	NA	5250	Chain1	10.67	4.67
802.11ac VHT160	NA	5250	MIMO	13.69	8.87

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11ax HE20	26T 0	5180	Chain0	7.11	1.11
802.11ax HE20	26T 0	5180	Chain1	7.11	3.21
802.11ax HE20	26T 0	5180	MIMO	10.12	5.30
802.11ax HE20	26T 0	5220	Chain0	7.32	1.32
802.11ax HE20	26T 0	5220	Chain1	7.57	3.67
802.11ax HE20	26T 0	5220	MIMO	10.46	5.64
802.11ax HE20	26T 0	5240	Chain0	7.33	1.33
802.11ax HE20	26T 0	5240	Chain1	7.32	3.42
802.11ax HE20	26T 0	5240	MIMO	10.34	5.52
802.11ax HE20	26T 4	5180	Chain0	7.33	1.33
802.11ax HE20	26T 4	5180	Chain1	7.31	3.41
802.11ax HE20	26T 4	5180	MIMO	10.33	5.51
802.11ax HE20	26T 4	5220	Chain0	7.00	1.00
802.11ax HE20	26T 4	5220	Chain1	7.00	3.10
802.11ax HE20	26T 4	5220	MIMO	10.01	5.19
802.11ax HE20	26T 4	5240	Chain0	7.11	1.11
802.11ax HE20	26T 4	5240	Chain1	7.10	3.20
802.11ax HE20	26T 4	5240	MIMO	10.12	5.30
802.11ax HE20	26T 8	5180	Chain0	7.36	1.36
802.11ax HE20	26T 8	5180	Chain1	7.37	3.47
802.11ax HE20	26T 8	5180	MIMO	10.38	5.56
802.11ax HE20	26T 8	5220	Chain0	7.10	1.10
802.11ax HE20	26T 8	5220	Chain1	7.18	3.28
802.11ax HE20	26T 8	5220	MIMO	10.15	5.33
802.11ax HE20	26T 8	5240	Chain0	7.12	1.12
802.11ax HE20	26T 8	5240	Chain1	7.16	3.26
802.11ax HE20	26T 8	5240	MIMO	10.15	5.33
802.11ax HE20	52T 37	5180	Chain0	7.40	1.40
802.11ax HE20	52T 37	5180	Chain1	7.37	3.47
802.11ax HE20	52T 37	5180	MIMO	10.40	5.58
802.11ax HE20	52T 37	5220	Chain0	6.63	0.63
802.11ax HE20	52T 37	5220	Chain1	7.01	3.11
802.11ax HE20	52T 37	5220	MIMO	9.83	5.01
802.11ax HE20	52T 37	5240	Chain0	7.02	1.02
802.11ax HE20	52T 37	5240	Chain1	7.02	3.12
802.11ax HE20	52T 37	5240	MIMO	10.03	5.21
802.11ax HE20	52T 39	5180	Chain0	7.33	1.33
802.11ax HE20	52T 39	5180	Chain1	7.33	3.43
802.11ax HE20	52T 39	5180	MIMO	10.34	5.52
802.11ax HE20	52T 39	5220	Chain0	7.14	1.14
802.11ax HE20	52T 39	5220	Chain1	7.14	3.24
802.11ax HE20	52T 39	5220	MIMO	10.15	5.33

802.11ax HE20	52T 39	5240	Chain0	7.21	1.21
802.11ax HE20	52T 39	5240	Chain1	7.20	3.30
802.11ax HE20	52T 39	5240	MIMO	10.22	5.40
802.11ax HE20	52T 40	5180	Chain0	7.33	1.33
802.11ax HE20	52T 40	5180	Chain1	7.31	3.41
802.11ax HE20	52T 40	5180	MIMO	10.33	5.51
802.11ax HE20	52T 40	5220	Chain0	7.14	1.14
802.11ax HE20	52T 40	5220	Chain1	7.15	3.25
802.11ax HE20	52T 40	5220	MIMO	10.16	5.34
802.11ax HE20	52T 40	5240	Chain0	7.37	1.37
802.11ax HE20	52T 40	5240	Chain1	7.33	3.43
802.11ax HE20	52T 40	5240	MIMO	10.36	5.54
802.11ax HE20	106T 53	5180	Chain0	7.87	1.87
802.11ax HE20	106T 53	5180	Chain1	7.42	3.52
802.11ax HE20	106T 53	5180	MIMO	10.66	5.84
802.11ax HE20	106T 53	5220	Chain0	7.51	1.51
802.11ax HE20	106T 53	5220	Chain1	7.53	3.63
802.11ax HE20	106T 53	5220	MIMO	10.53	5.71
802.11ax HE20	106T 53	5240	Chain0	7.00	1.00
802.11ax HE20	106T 53	5240	Chain1	7.00	3.10
802.11ax HE20	106T 53	5240	MIMO	10.01	5.19
802.11ax HE20	106T 54	5180	Chain0	7.30	1.30
802.11ax HE20	106T 54	5180	Chain1	7.29	3.39
802.11ax HE20	106T 54	5180	MIMO	10.31	5.49
802.11ax HE20	106T 54	5220	Chain0	7.00	1.00
802.11ax HE20	106T 54	5220	Chain1	7.00	3.10
802.11ax HE20	106T 54	5220	MIMO	10.01	5.19
802.11ax HE20	106T 54	5240	Chain0	7.01	1.01
802.11ax HE20	106T 54	5240	Chain1	7.01	3.11
802.11ax HE20	106T 54	5240	MIMO	10.02	5.20
802.11ax HE40	26T 0	5190	Chain0	7.22	1.22
802.11ax HE40	26T 0	5190	Chain1	7.54	3.64
802.11ax HE40	26T 0	5190	MIMO	10.39	5.57
802.11ax HE40	26T 0	5230	Chain0	7.18	1.18
802.11ax HE40	26T 0	5230	Chain1	7.24	3.34
802.11ax HE40	26T 0	5230	MIMO	10.22	5.40
802.11ax HE40	26T 10	5190	Chain0	7.31	1.31
802.11ax HE40	26T 10	5190	Chain1	7.30	3.40
802.11ax HE40	26T 10	5190	MIMO	10.32	5.50
802.11ax HE40	26T 10	5230	Chain0	7.10	1.10
802.11ax HE40	26T 10	5230	Chain1	7.12	3.22
802.11ax HE40	26T 10	5230	MIMO	10.12	5.30
802.11ax HE40	26T 17	5190	Chain0	7.19	1.19
802.11ax HE40	26T 17	5190	Chain1	7.19	3.29
802.11ax HE40	26T 17	5190	MIMO	10.20	5.38
802.11ax HE40	26T 17	5230	Chain0	7.31	1.31

802.11ax HE40	26T 17	5230	Chain1	7.34	3.44
802.11ax HE40	26T 17	5230	MIMO	10.34	5.52
802.11ax HE40	52T 37	5190	Chain0	7.59	1.59
802.11ax HE40	52T 37	5190	Chain1	7.58	3.68
802.11ax HE40	52T 37	5190	MIMO	10.60	5.78
802.11ax HE40	52T 37	5230	Chain0	7.19	1.19
802.11ax HE40	52T 37	5230	Chain1	7.09	3.19
802.11ax HE40	52T 37	5230	MIMO	10.15	5.33
802.11ax HE40	52T 41	5190	Chain0	7.22	1.22
802.11ax HE40	52T 41	5190	Chain1	7.23	3.33
802.11ax HE40	52T 41	5190	MIMO	10.24	5.42
802.11ax HE40	52T 41	5230	Chain0	6.92	0.92
802.11ax HE40	52T 41	5230	Chain1	6.89	2.99
802.11ax HE40	52T 41	5230	MIMO	9.92	5.10
802.11ax HE40	52T 44	5190	Chain0	7.11	1.11
802.11ax HE40	52T 44	5190	Chain1	7.07	3.17
802.11ax HE40	52T 44	5190	MIMO	10.10	5.28
802.11ax HE40	52T 44	5230	Chain0	7.16	1.16
802.11ax HE40	52T 44	5230	Chain1	7.13	3.23
802.11ax HE40	52T 44	5230	MIMO	10.16	5.34
802.11ax HE40	106T 53	5190	Chain0	7.61	1.61
802.11ax HE40	106T 53	5190	Chain1	7.66	3.76
802.11ax HE40	106T 53	5190	MIMO	10.65	5.83
802.11ax HE40	106T 53	5230	Chain0	7.30	1.30
802.11ax HE40	106T 53	5230	Chain1	7.19	3.29
802.11ax HE40	106T 53	5230	MIMO	10.26	5.44
802.11ax HE40	106T 55	5190	Chain0	7.44	1.44
802.11ax HE40	106T 55	5190	Chain1	7.28	3.38
802.11ax HE40	106T 55	5190	MIMO	10.37	5.55
802.11ax HE40	106T 55	5230	Chain0	7.06	1.06
802.11ax HE40	106T 55	5230	Chain1	7.20	3.30
802.11ax HE40	106T 55	5230	MIMO	10.14	5.32
802.11ax HE40	106T 56	5190	Chain0	7.16	1.16
802.11ax HE40	106T 56	5190	Chain1	7.19	3.29
802.11ax HE40	106T 56	5190	MIMO	10.19	5.37
802.11ax HE40	106T 56	5230	Chain0	7.28	1.28
802.11ax HE40	106T 56	5230	Chain1	7.26	3.36
802.11ax HE40	106T 56	5230	MIMO	10.28	5.46
802.11ax HE40	242T 61	5190	Chain0	7.11	1.11
802.11ax HE40	242T 61	5190	Chain1	7.09	3.19
802.11ax HE40	242T 61	5190	MIMO	10.11	5.29
802.11ax HE40	242T 61	5230	Chain0	6.82	0.82
802.11ax HE40	242T 61	5230	Chain1	6.84	2.94
802.11ax HE40	242T 61	5230	MIMO	9.84	5.02
802.11ax HE40	242T 62	5190	Chain0	6.92	0.92
802.11ax HE40	242T 62	5190	Chain1	6.90	3.00

802.11ax HE40	242T 62	5190	MIMO	9.92	5.10
802.11ax HE40	242T 62	5230	Chain0	6.82	0.82
802.11ax HE40	242T 62	5230	Chain1	6.83	2.93
802.11ax HE40	242T 62	5230	MIMO	9.84	5.02
802.11ax HE80	26T 0	5210	Chain0	7.45	1.45
802.11ax HE80	26T 0	5210	Chain1	7.45	3.55
802.11ax HE80	26T 0	5210	MIMO	10.46	5.64
802.11ax HE80	26T 18	5210	Chain0	7.25	1.25
802.11ax HE80	26T 18	5210	Chain1	7.23	3.33
802.11ax HE80	26T 18	5210	MIMO	10.25	5.43
802.11ax HE80	26T 36	5210	Chain0	7.50	1.50
802.11ax HE80	26T 36	5210	Chain1	7.53	3.63
802.11ax HE80	26T 36	5210	MIMO	10.53	5.71
802.11ax HE80	52T 37	5210	Chain0	7.61	1.61
802.11ax HE80	52T 37	5210	Chain1	7.52	3.62
802.11ax HE80	52T 37	5210	MIMO	10.58	5.76
802.11ax HE80	52T 45	5210	Chain0	7.30	1.30
802.11ax HE80	52T 45	5210	Chain1	7.45	3.55
802.11ax HE80	52T 45	5210	MIMO	10.39	5.57
802.11ax HE80	52T 52	5210	Chain0	7.67	1.67
802.11ax HE80	52T 52	5210	Chain1	7.68	3.78
802.11ax HE80	52T 52	5210	MIMO	10.69	5.87
802.11ax HE80	106T 53	5210	Chain0	6.83	0.83
802.11ax HE80	106T 53	5210	Chain1	6.83	2.93
802.11ax HE80	106T 53	5210	MIMO	9.84	5.02
802.11ax HE80	106T 57	5210	Chain0	6.50	0.50
802.11ax HE80	106T 57	5210	Chain1	6.53	2.63
802.11ax HE80	106T 57	5210	MIMO	9.53	4.71
802.11ax HE80	106T 60	5210	Chain0	6.76	0.76
802.11ax HE80	106T 60	5210	Chain1	6.76	2.86
802.11ax HE80	106T 60	5210	MIMO	9.77	4.95
802.11ax HE80	242T 61	5210	Chain0	6.66	0.66
802.11ax HE80	242T 61	5210	Chain1	6.66	2.76
802.11ax HE80	242T 61	5210	MIMO	9.67	4.85
802.11ax HE80	242T 63	5210	Chain0	6.29	0.29
802.11ax HE80	242T 63	5210	Chain1	6.31	2.41
802.11ax HE80	242T 63	5210	MIMO	9.31	4.49
802.11ax HE80	242T 64	5210	Chain0	6.43	0.43
802.11ax HE80	242T 64	5210	Chain1	6.42	2.52
802.11ax HE80	242T 64	5210	MIMO	9.44	4.62
802.11ax HE80	484T 65	5210	Chain0	6.32	0.32
802.11ax HE80	484T 65	5210	Chain1	6.32	2.42
802.11ax HE80	484T 65	5210	MIMO	9.33	4.51
802.11ax HE80	484T 66	5210	Chain0	7.26	1.26
802.11ax HE80	484T 66	5210	Chain1	7.25	3.35
802.11ax HE80	484T 66	5210	MIMO	10.27	5.45

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11ax HE20	242T 61	5180	Chain0	10.52	6.62
802.11ax HE20	242T 61	5180	Chain1	10.52	4.52
802.11ax HE20	242T 61	5180	MIMO	13.53	8.71
802.11ax HE20	242T 61	5220	Chain0	10.89	6.99
802.11ax HE20	242T 61	5220	Chain1	10.53	4.53
802.11ax HE20	242T 61	5220	MIMO	13.72	8.90
802.11ax HE20	242T 61	5240	Chain0	10.71	6.81
802.11ax HE20	242T 61	5240	Chain1	10.75	4.75
802.11ax HE20	242T 61	5240	MIMO	13.74	8.92
802.11ax HE40	484T 65	5190	Chain0	10.59	6.69
802.11ax HE40	484T 65	5190	Chain1	10.40	4.40
802.11ax HE40	484T 65	5190	MIMO	13.51	8.69
802.11ax HE40	484T 65	5230	Chain0	10.69	6.79
802.11ax HE40	484T 65	5230	Chain1	10.56	4.56
802.11ax HE40	484T 65	5230	MIMO	13.64	8.82
802.11ax HE80	996T 67	5210	Chain0	10.49	6.59
802.11ax HE80	996T 67	5210	Chain1	10.32	4.32
802.11ax HE80	996T 67	5210	MIMO	13.42	8.60
802.11ax HE160	1992T LH	5250	Chain0	10.55	6.65
802.11ax HE160	1992T LH	5250	Chain1	10.46	4.46
802.11ax HE160	1992T LH	5250	MIMO	13.52	8.70

Emission Bandwidth

Offset 21.3dB = Attenuator + Temporary antenna connector loss + Cable loss

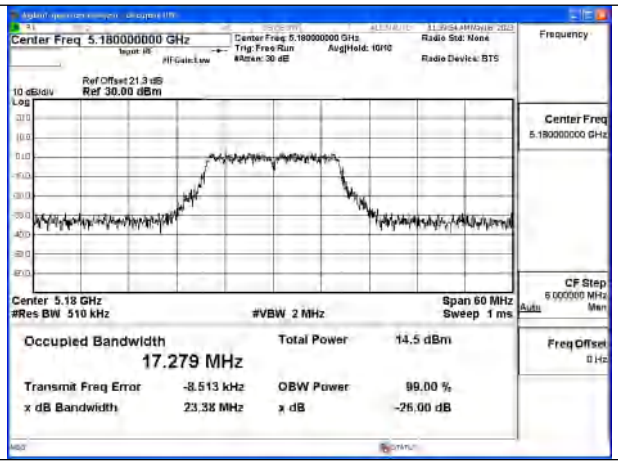
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	23.38	22.31	23.84
802.11a	Chain1	23.12	23.22	23.85
802.11n HT20	Chain0	23.63	23.52	23.54
802.11n HT20	Chain1	22.83	22.64	24.27
802.11ac VHT20	Chain0	23.03	23.56	23.29
802.11ac VHT20	Chain1	23.55	23.40	23.06
802.11ax HE20	Chain0	22.27	22.02	21.87
802.11ax HE20	Chain1	23.11	22.91	22.34

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	44.26	---	43.70
802.11n HT40	Chain1	45.66	---	44.84
802.11ac VHT40	Chain0	43.66	---	43.27
802.11ac VHT40	Chain1	44.82	---	42.58
802.11ax HE40	Chain0	43.55	---	42.35
802.11ax HE40	Chain1	43.97	---	44.46

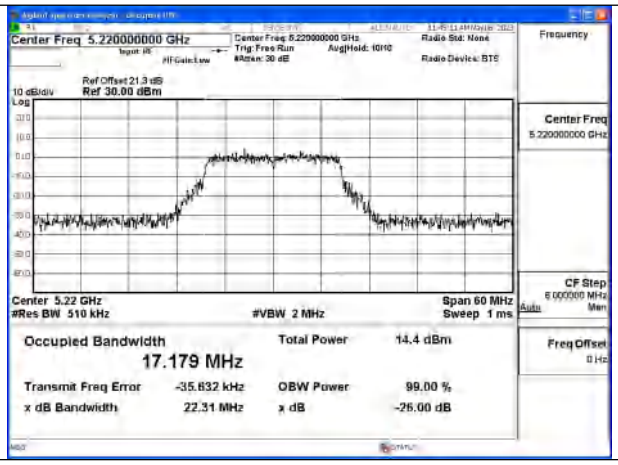
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	90.11	---	---
802.11ac VHT80	Chain1	88.22	---	---
802.11ax HE80	Chain0	84.07	---	---
802.11ax HE80	Chain1	87.60	---	---

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5250MHz	---	---
802.11ac VHT160	Chain0	169.44	---	---
802.11ac VHT160	Chain1	170.55	---	---
802.11ax HE160	Chain0	168.60	---	---
802.11ax HE160	Chain1	171.89	---	---

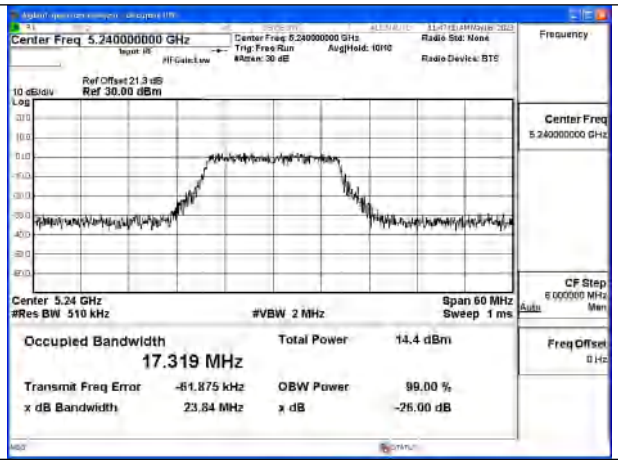
Test Mode: 802.11a



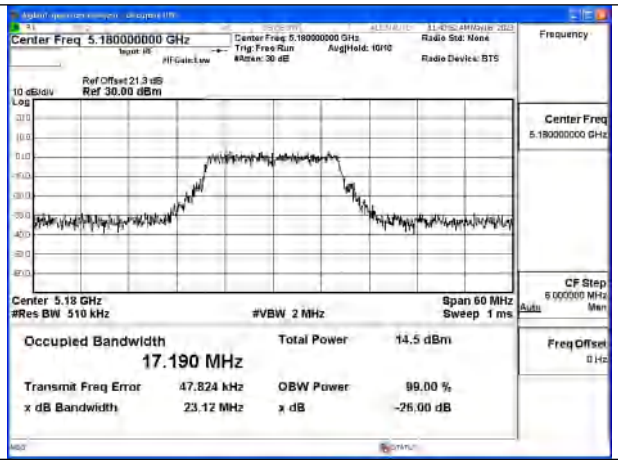
Test Mode:802.11a 5180MHz Chain0



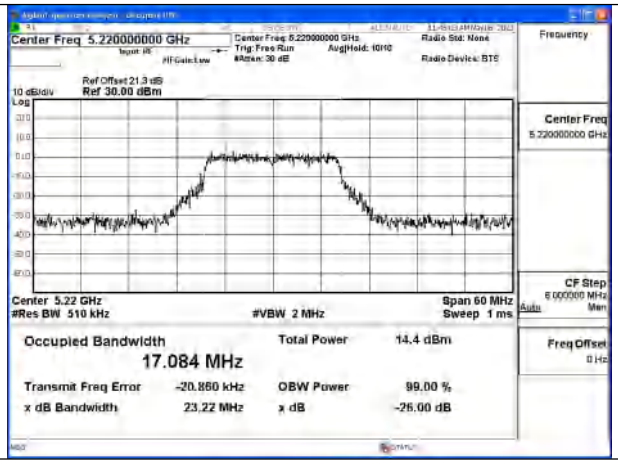
Test Mode:802.11a 5220MHz Chain0



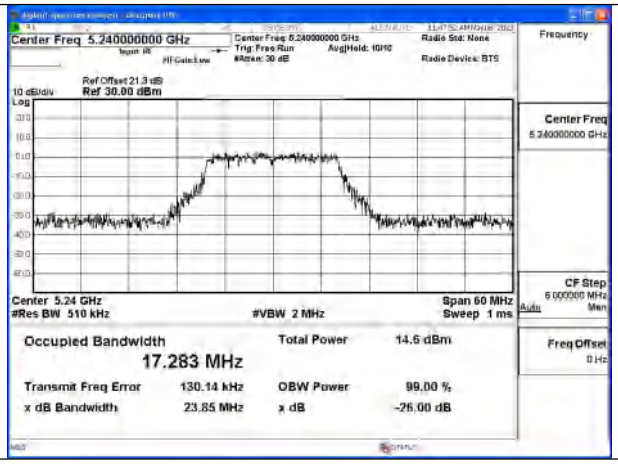
Test Mode:802.11a 5240MHz Chain0



Test Mode:802.11a 5180MHz Chain1

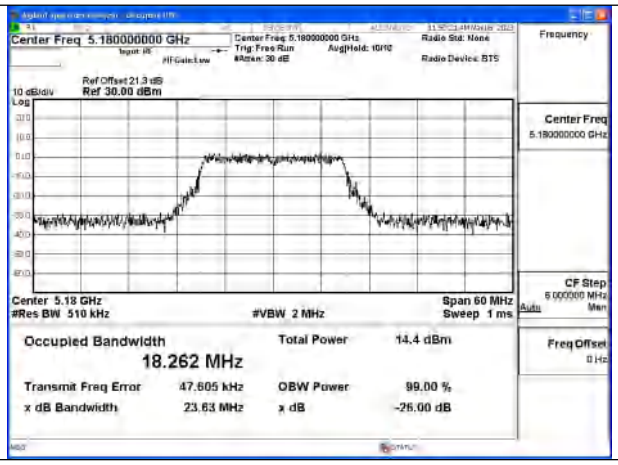


Test Mode:802.11a 5220MHz Chain1

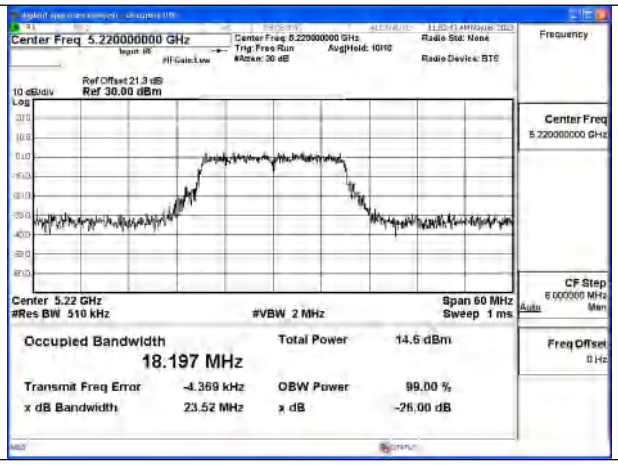


Test Mode:802.11a 5240MHz Chain1

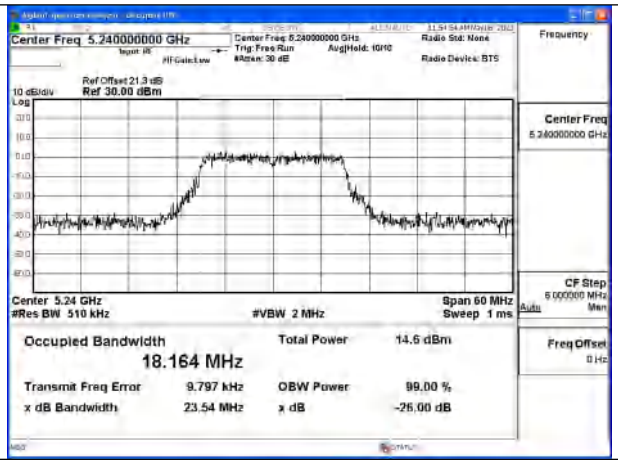
Test Mode: 802.11n HT20



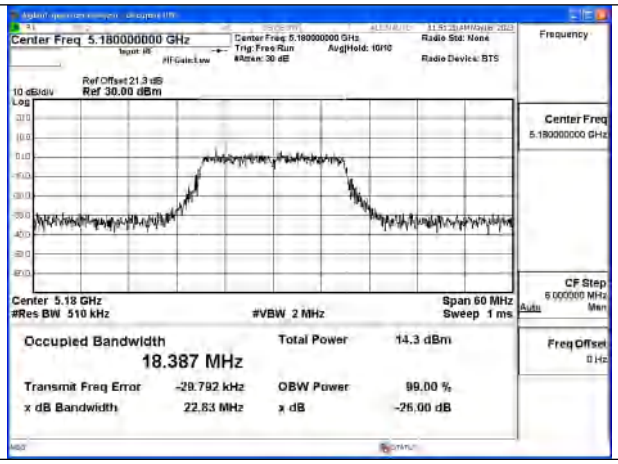
Test Mode:802.11n HT20 5180MHz Chain0



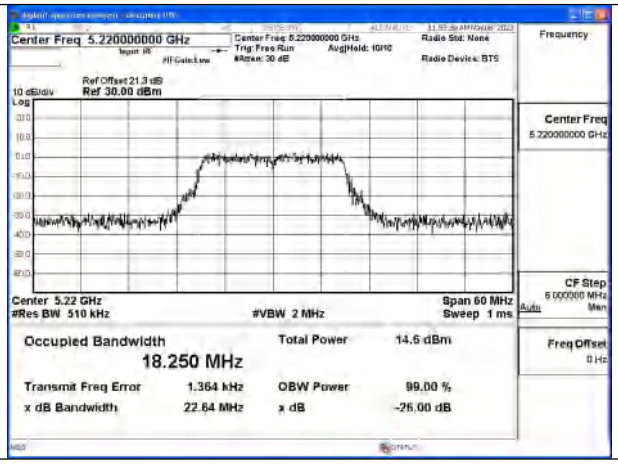
Test Mode:802.11n HT20 5220MHz Chain0



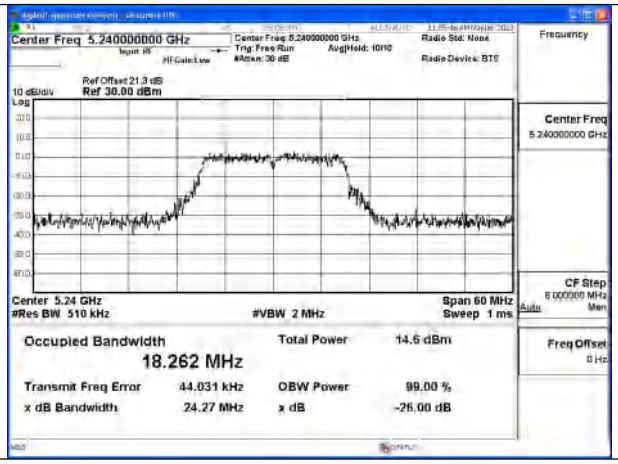
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode:802.11n HT20 5180MHz Chain1

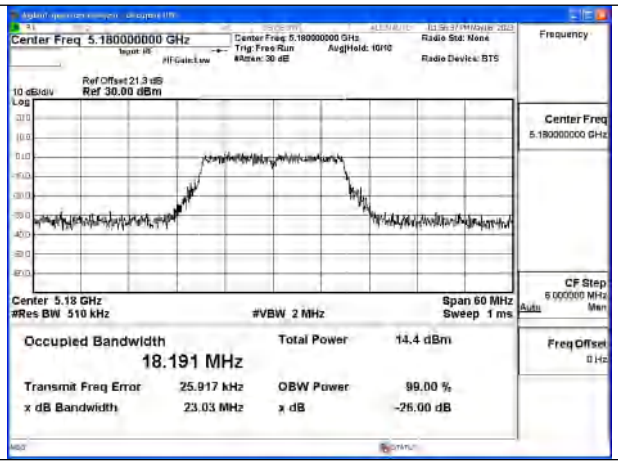


Test Mode:802.11n HT20 5220MHz Chain1

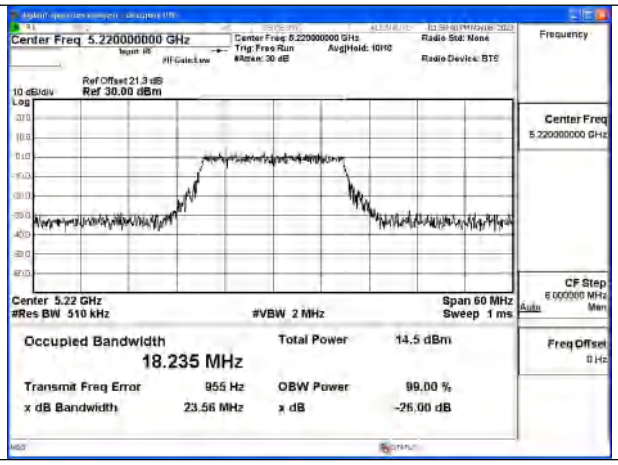


Test Mode:802.11n HT20 5240MHz Chain1

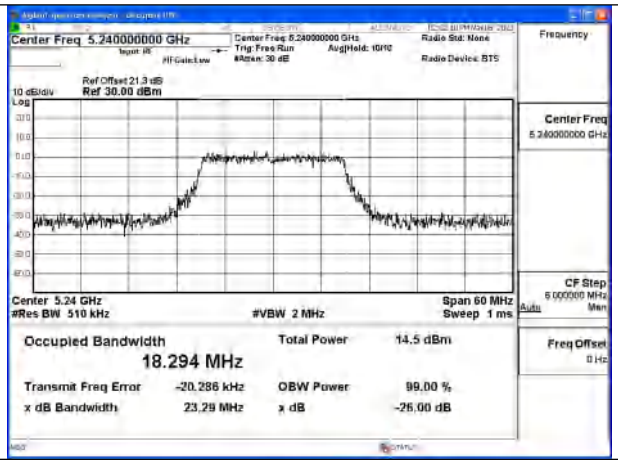
Test Mode: 802.11ac VHT20



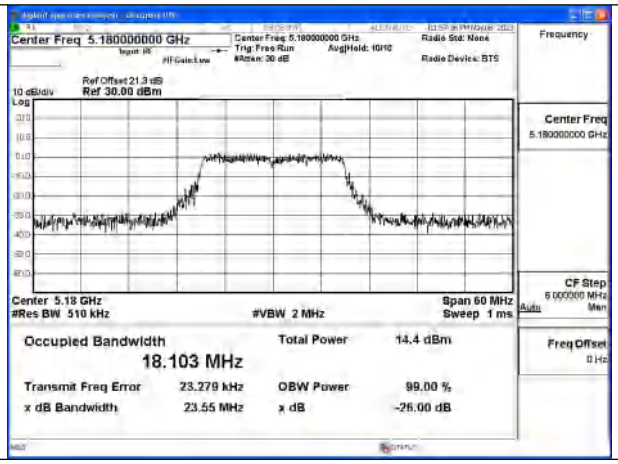
Test Mode:802.11ac VHT20 5180MHz Chain0



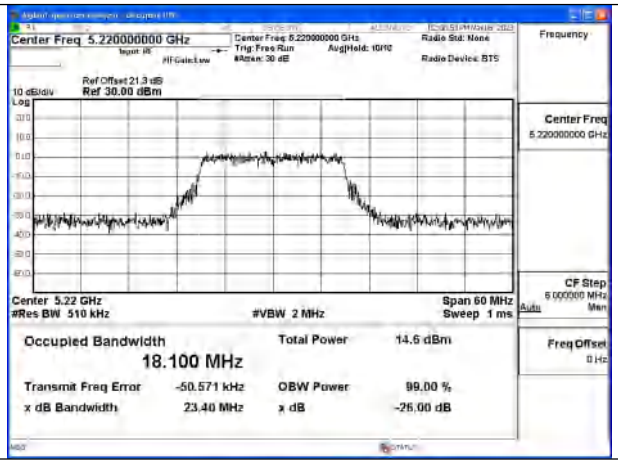
Test Mode:802.11ac VHT20 5220MHz Chain0



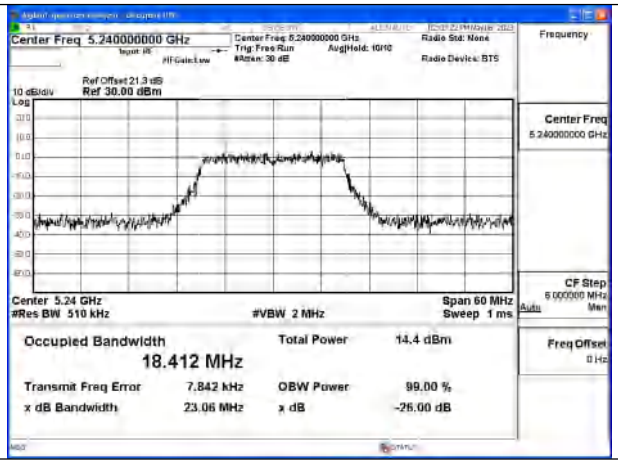
Test Mode:802.11ac VHT20 5240MHz Chain0



Test Mode:802.11ac VHT20 5180MHz Chain1

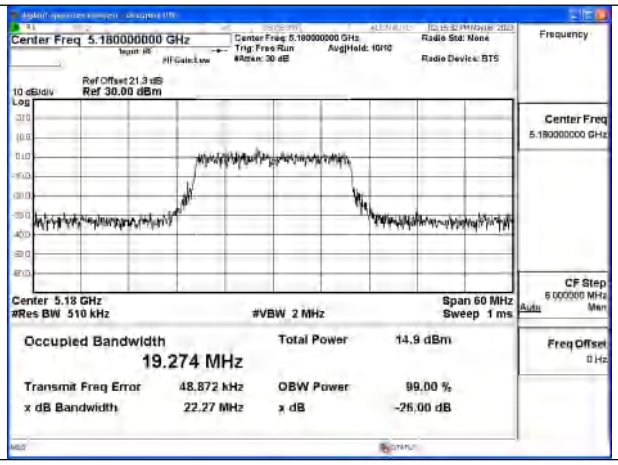


Test Mode:802.11ac VHT20 5220MHz Chain1

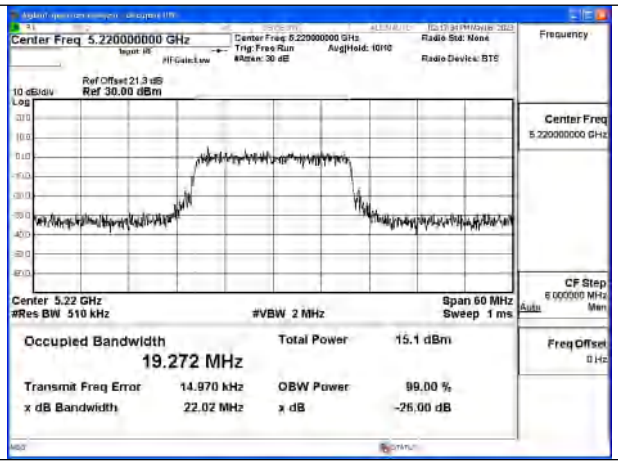


Test Mode:802.11ac VHT20 5240MHz Chain1

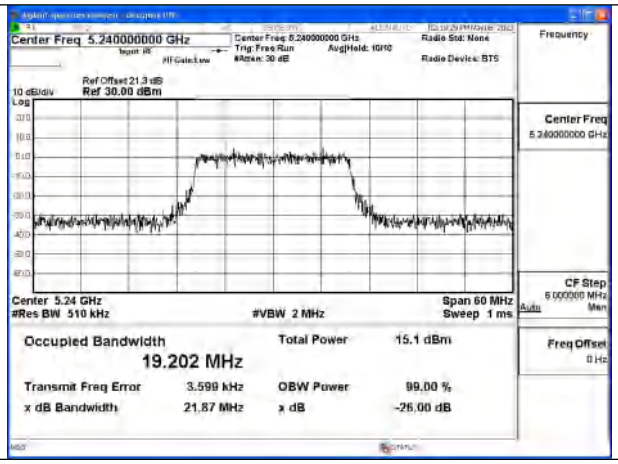
Test Mode: 802.11ax HE20



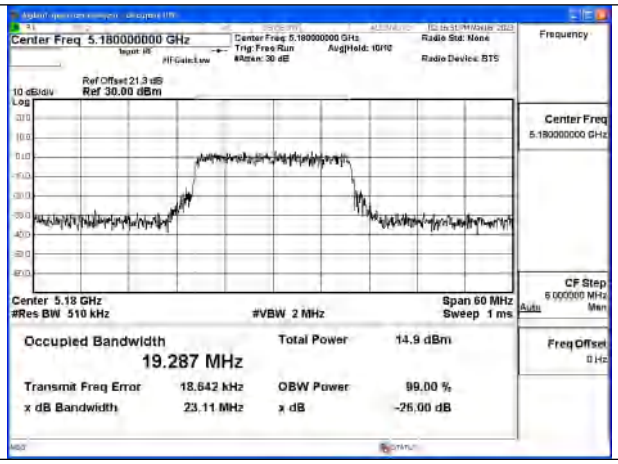
Test Mode:802.11ax HE20 5180MHz Chain0



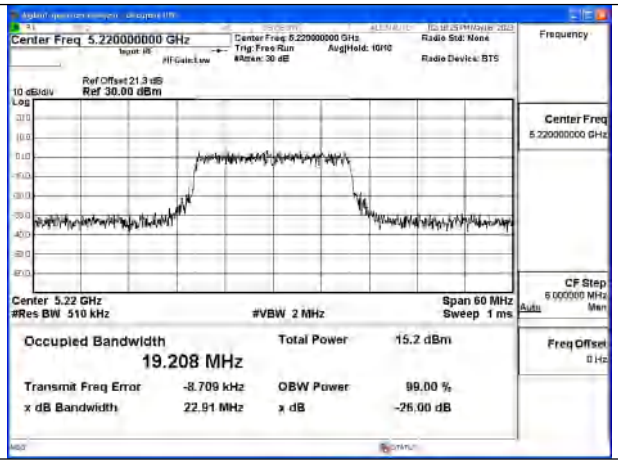
Test Mode:802.11ax HE20 5220MHz Chain0



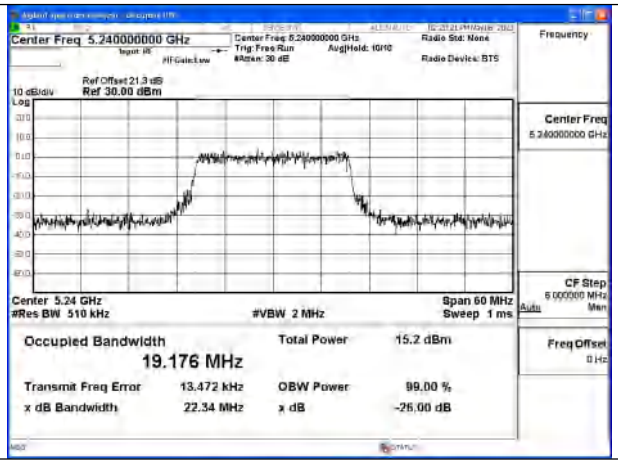
Test Mode:802.11ax HE20 5240MHz Chain0



Test Mode:802.11ax HE20 5180MHz Chain1

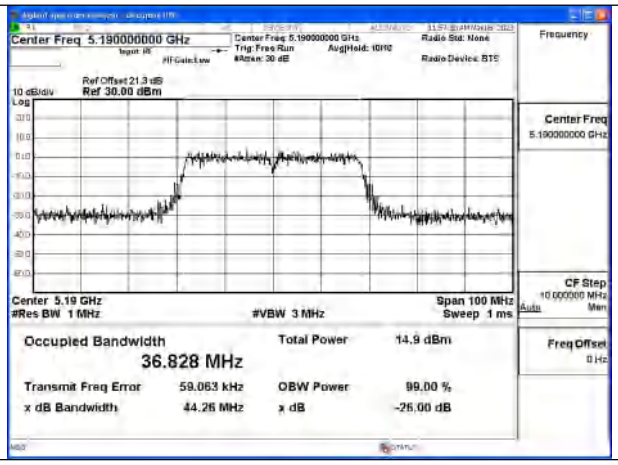


Test Mode:802.11ax HE20 5220MHz Chain1

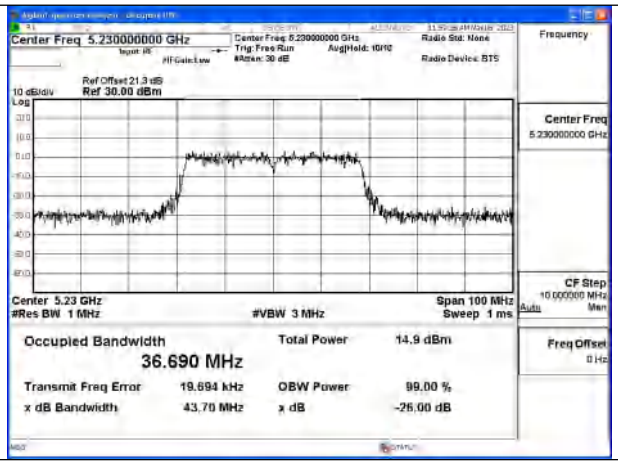


Test Mode:802.11ax HE20 5240MHz Chain1

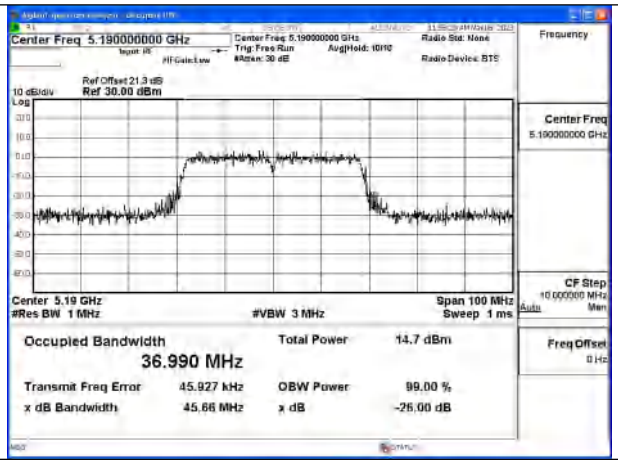
Test Mode: 802.11n HT40



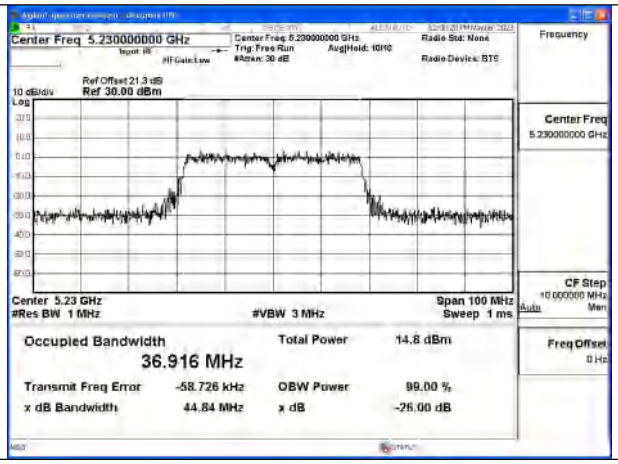
Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

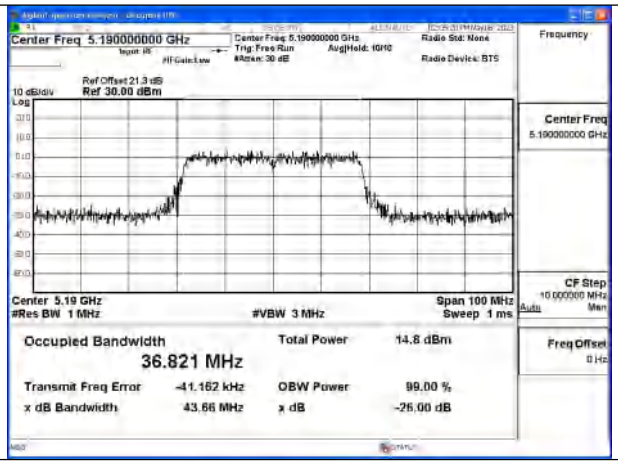


Test Mode:802.11n HT40 5190MHz Chain1

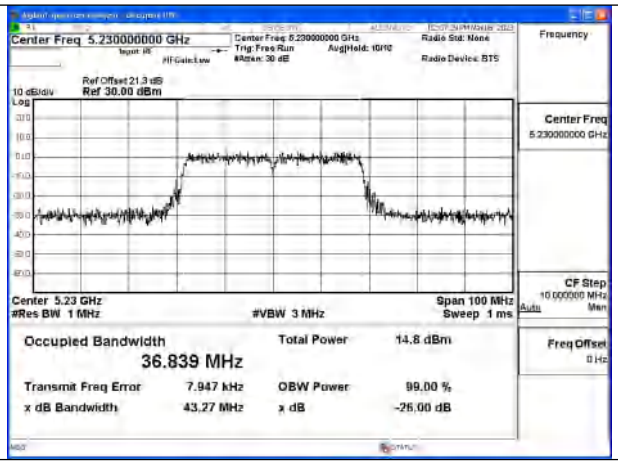


Test Mode:802.11n HT40 5230MHz Chain1

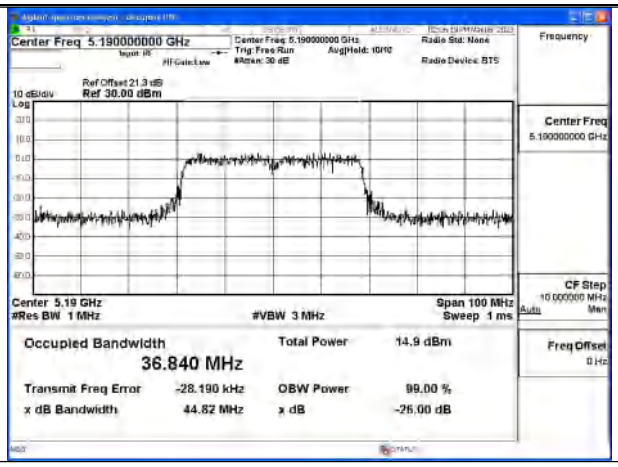
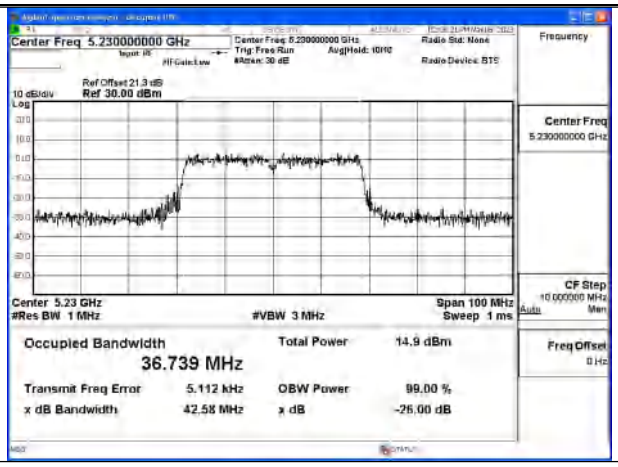
Test Mode: 802.11ac VHT40



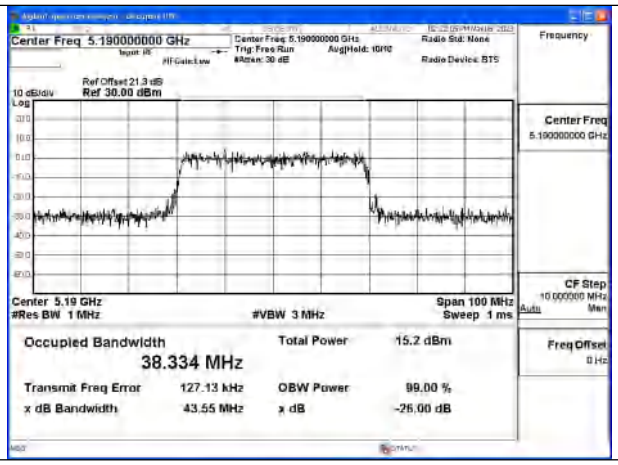
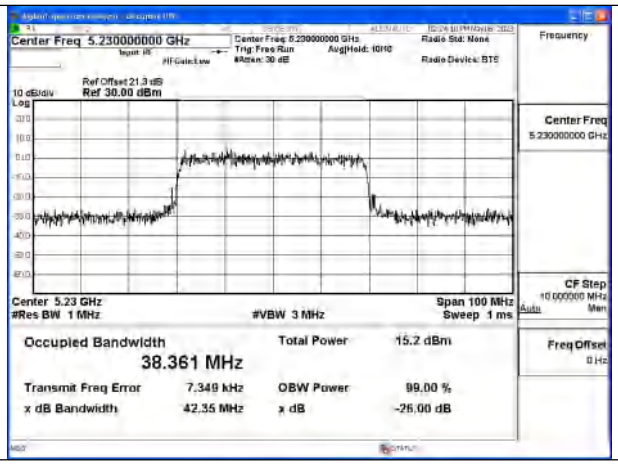
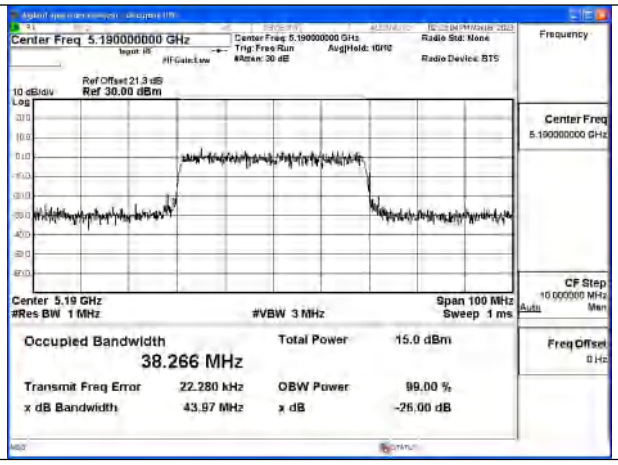
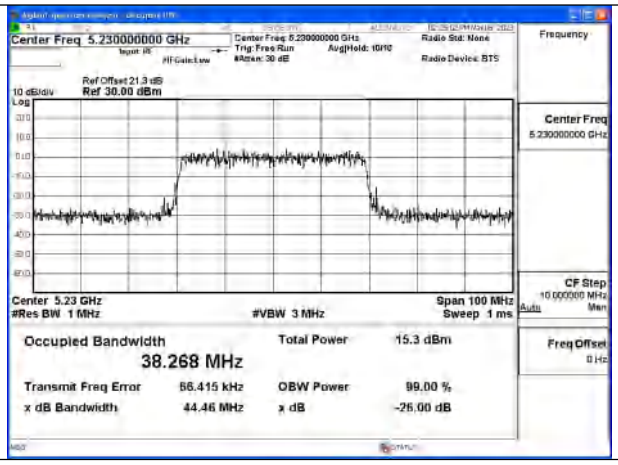
Test Mode:802.11ac VHT40 5190MHz Chain0



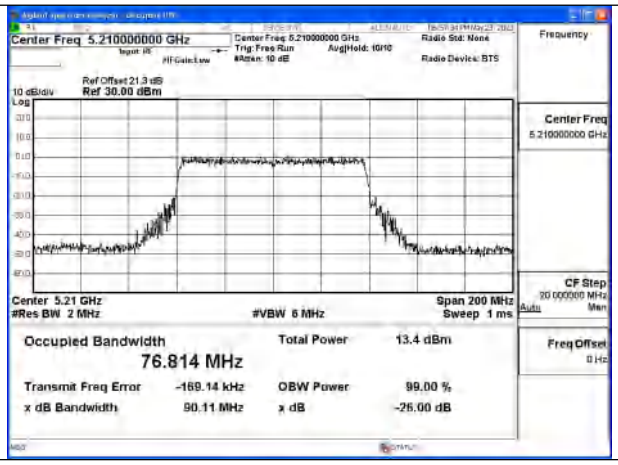
Test Mode:802.11ac VHT40 5230MHz Chain0

	
Test Mode:802.11ac VHT40 5190MHz Chain1	Test Mode:802.11ac VHT40 5230MHz Chain1

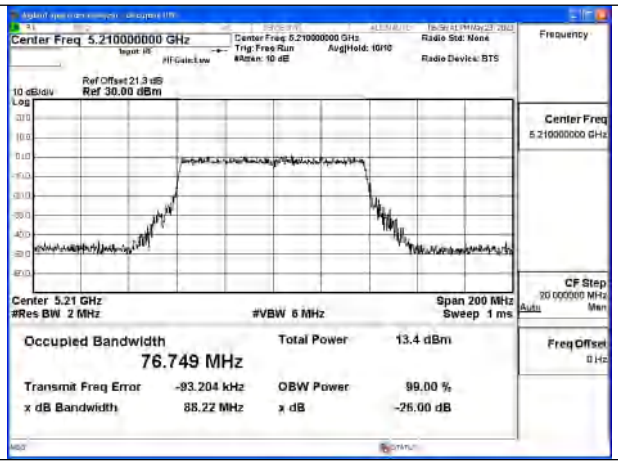
Test Mode: 802.11ax HE40

	
Test Mode:802.11ax HE40 5190MHz Chain0	Test Mode:802.11ax HE40 5230MHz Chain0
	
Test Mode:802.11ax HE40 5190MHz Chain1	Test Mode:802.11ax HE40 5230MHz Chain1

Test Mode: 802.11ac VHT80

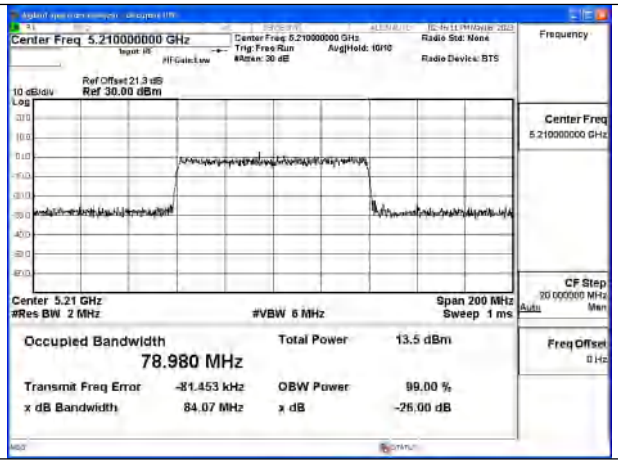


Test Mode:802.11ac VHT80 5210MHz Chain0

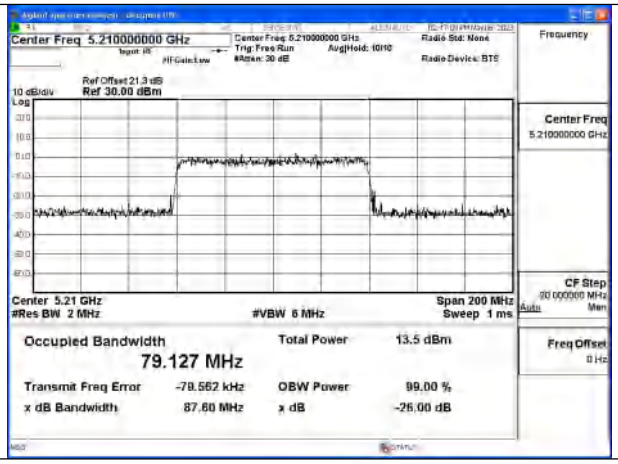


Test Mode:802.11ac VHT80 5210MHz Chain1

Test Mode: 802.11ax HE80

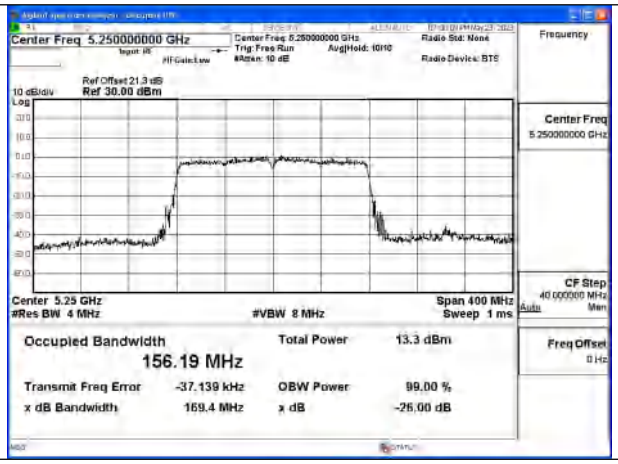


Test Mode:802.11ax HE80 5210MHz Chain0

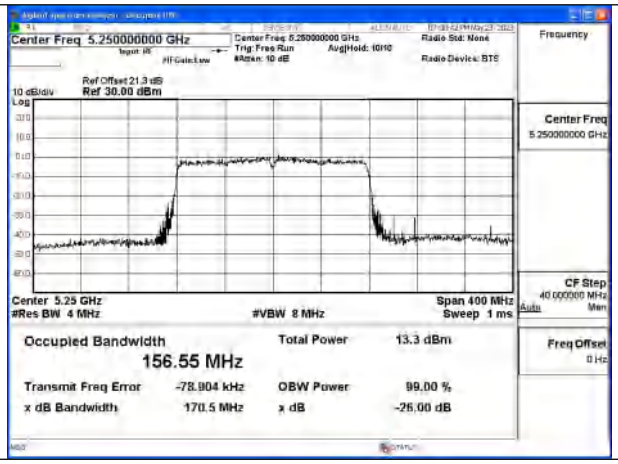


Test Mode:802.11ax HE80 5210MHz Chain1

Test Mode: 802.11ac VHT160

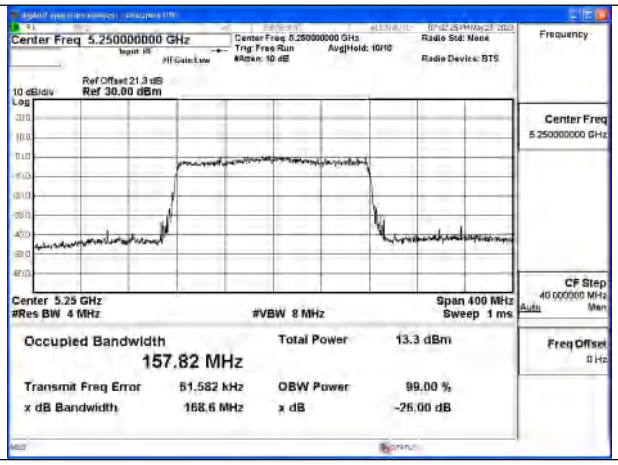
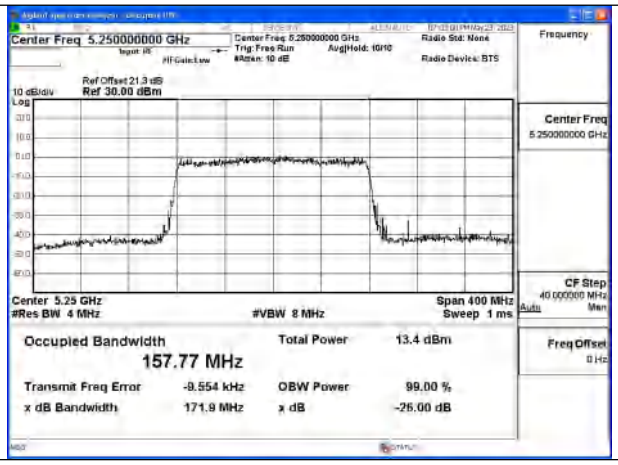


Test Mode:802.11ac VHT160 5250MHz Chain0



Test Mode:802.11ac VHT160 5250MHz Chain1

Test Mode: 802.11ax HE160

	
Test Mode:802.11ax HE160 5250MHz Chain0	Test Mode:802.11ax HE160 5250MHz Chain1

Occupied Bandwidth

Offset 21.3dB = Attenuator + Temporary antenna connector loss + Cable loss

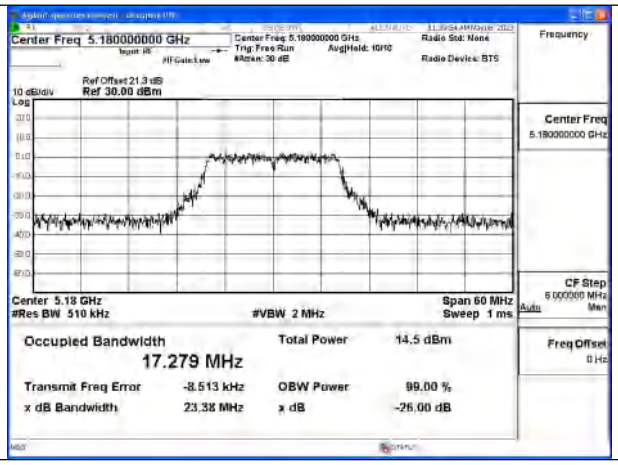
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	17.203	17.183	17.310
802.11a	Chain1	17.205	17.229	17.263
802.11n HT20	Chain0	18.162	18.187	18.220
802.11n HT20	Chain1	18.191	18.247	18.173
802.11ac VHT20	Chain0	18.204	18.189	18.059
802.11ac VHT20	Chain1	18.280	18.296	18.150
802.11ax HE20	Chain0	19.229	19.247	19.270
802.11ax HE20	Chain1	19.227	19.160	19.211

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	37.045	---	36.731
802.11n HT40	Chain1	36.913	---	36.827
802.11ac VHT40	Chain0	36.919	---	36.665
802.11ac VHT40	Chain1	36.961	---	36.730
802.11ax HE40	Chain0	38.323	---	38.361
802.11ax HE40	Chain1	38.312	---	38.370

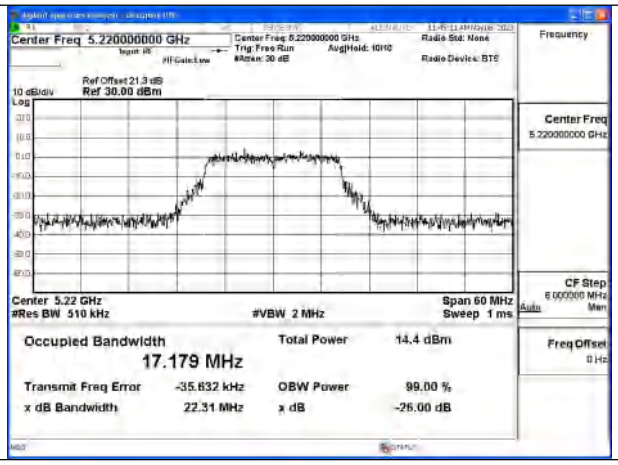
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	76.993	---	---
802.11ac VHT80	Chain1	76.936	---	---
802.11ax HE80	Chain0	78.968	---	---
802.11ax HE80	Chain1	78.898	---	---

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5250MHz	---	---
802.11ac VHT160	Chain0	156.324	---	---
802.11ac VHT160	Chain1	156.555	---	---
802.11ax HE160	Chain0	157.725	---	---
802.11ax HE160	Chain1	157.748	---	---

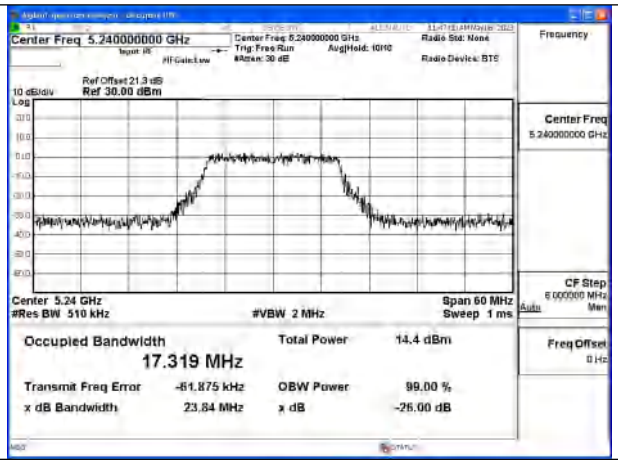
Test Mode: 802.11a



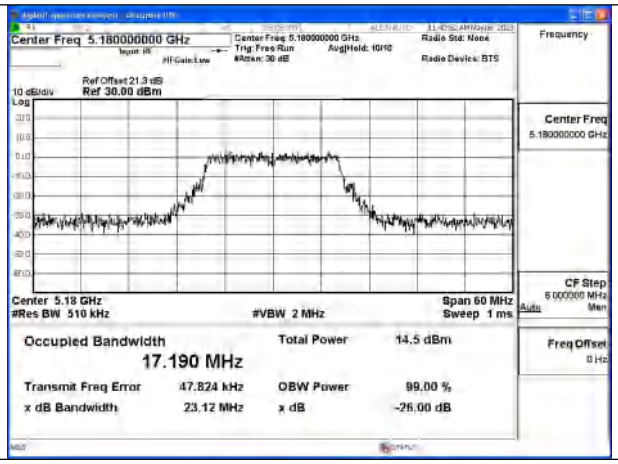
Test Mode:802.11a 5180MHz Chain0



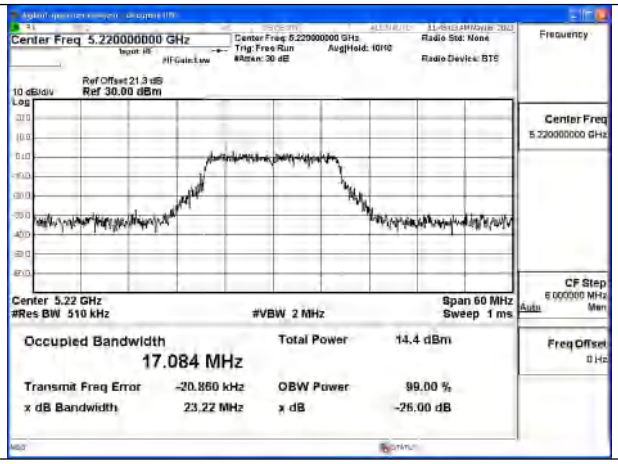
Test Mode:802.11a 5220MHz Chain0



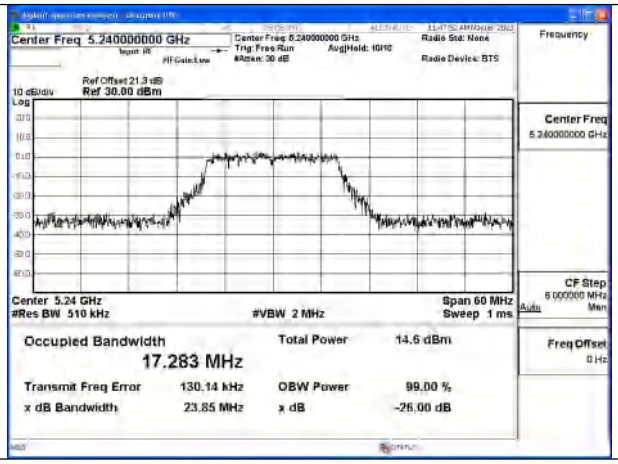
Test Mode:802.11a 5240MHz Chain0



Test Mode:802.11a 5180MHz Chain1

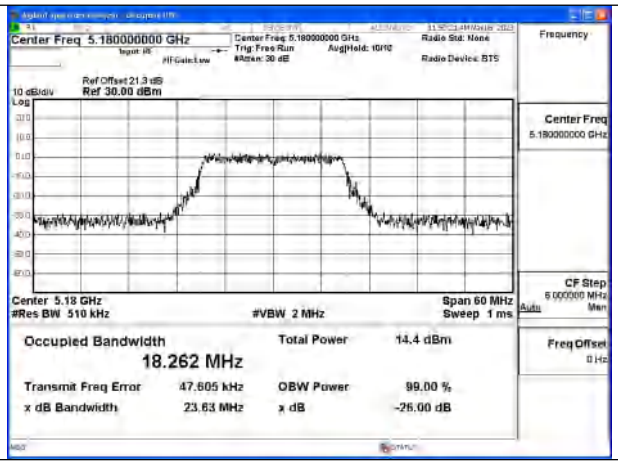


Test Mode:802.11a 5220MHz Chain1

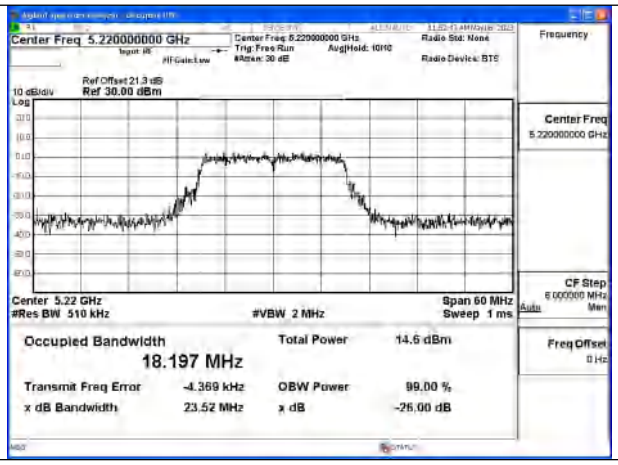


Test Mode:802.11a 5240MHz Chain1

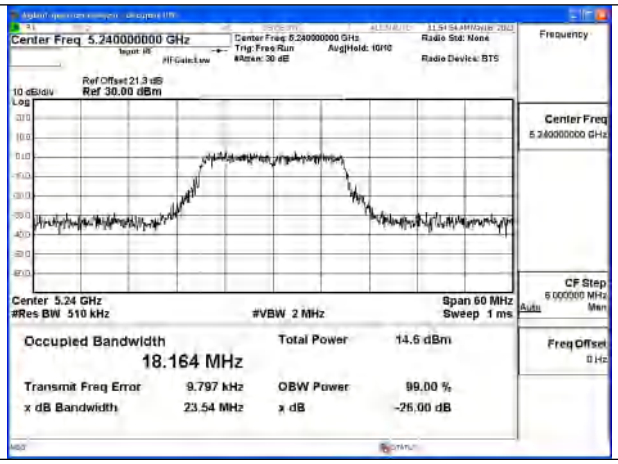
Test Mode: 802.11n HT20



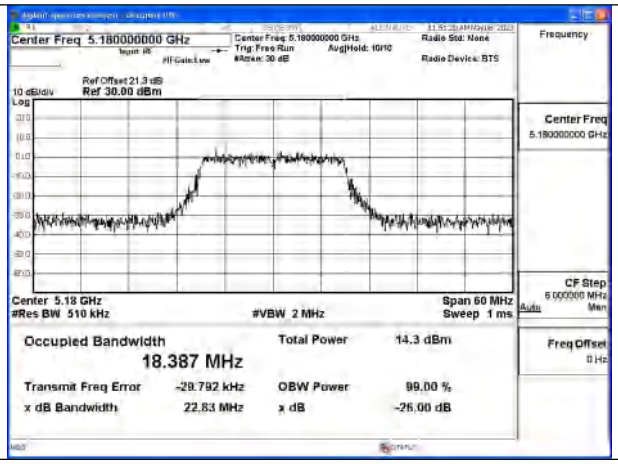
Test Mode:802.11n HT20 5180MHz Chain0



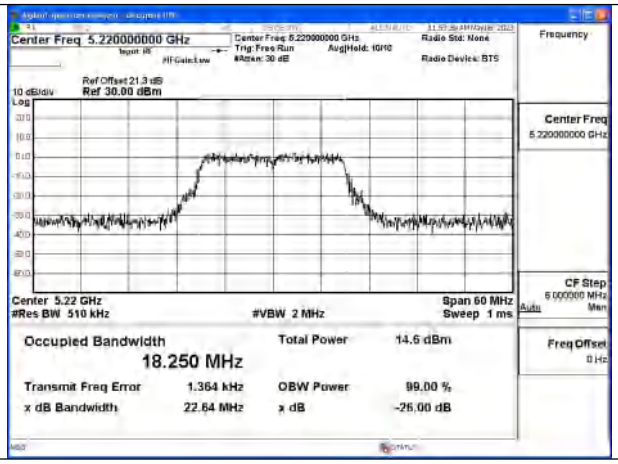
Test Mode:802.11n HT20 5220MHz Chain0



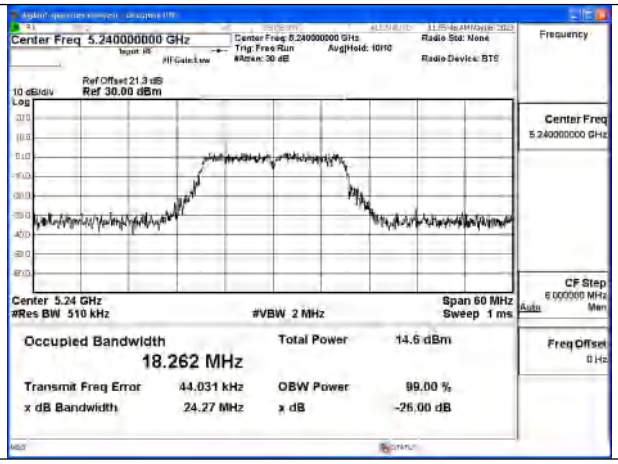
Test Mode:802.11n HT20 5240MHz Chain0



Test Mode:802.11n HT20 5180MHz Chain1

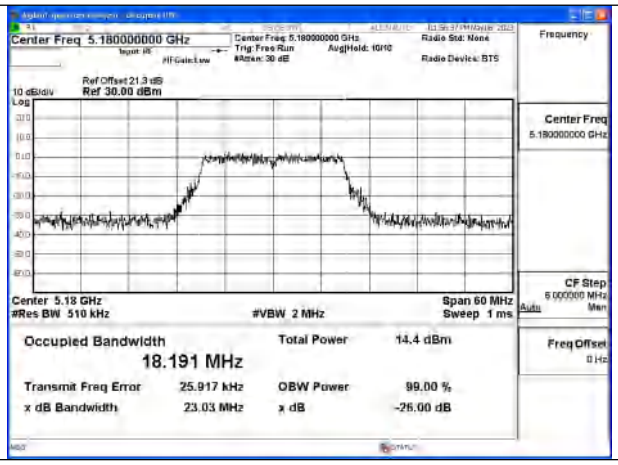


Test Mode:802.11n HT20 5220MHz Chain1

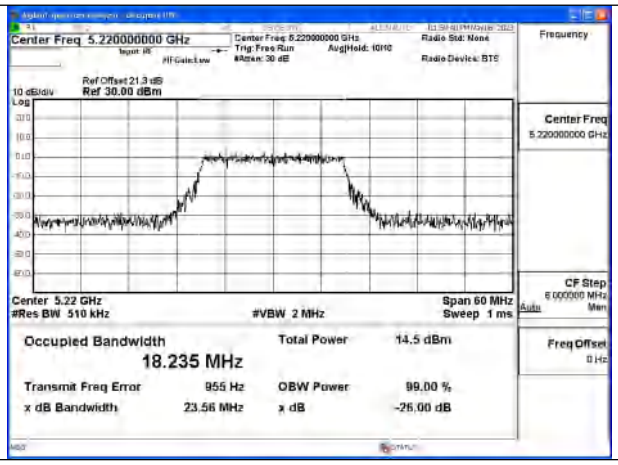


Test Mode:802.11n HT20 5240MHz Chain1

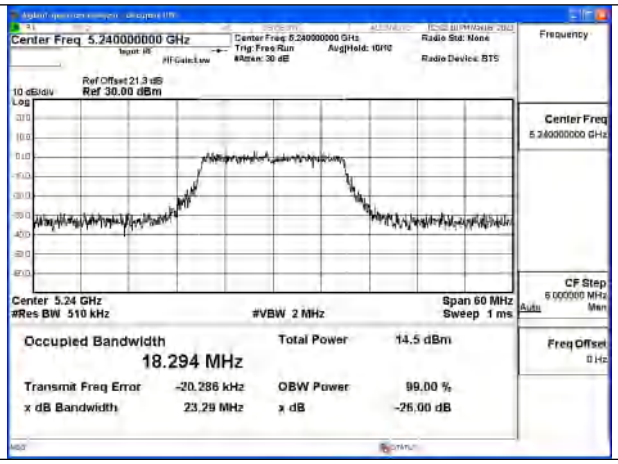
Test Mode: 802.11ac VHT20



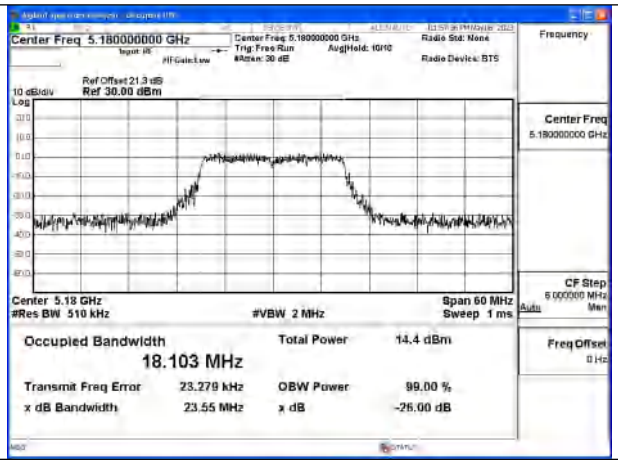
Test Mode:802.11ac VHT20 5180MHz Chain0



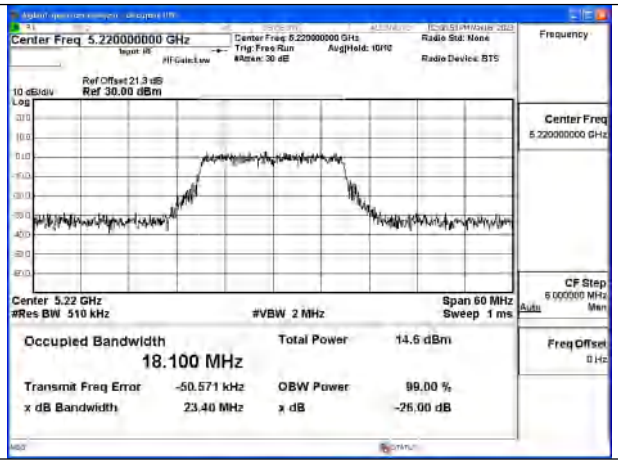
Test Mode:802.11ac VHT20 5220MHz Chain0



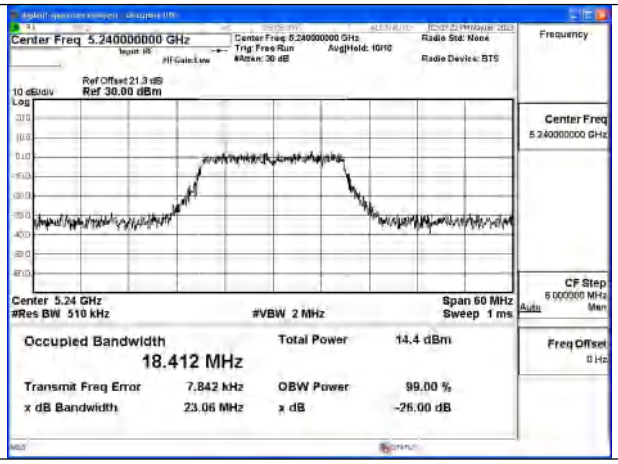
Test Mode:802.11ac VHT20 5240MHz Chain0



Test Mode:802.11ac VHT20 5180MHz Chain1

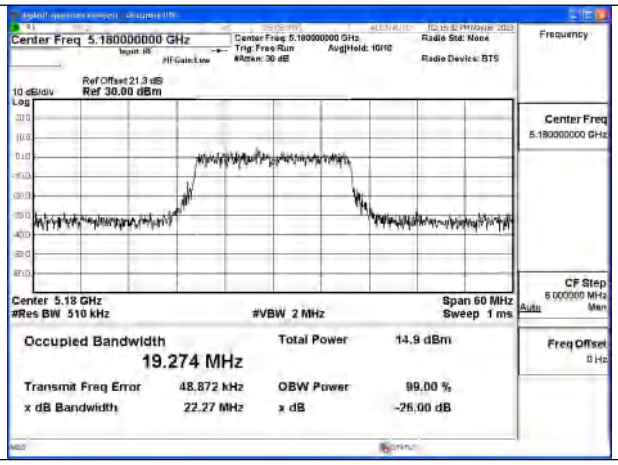


Test Mode:802.11ac VHT20 5220MHz Chain1

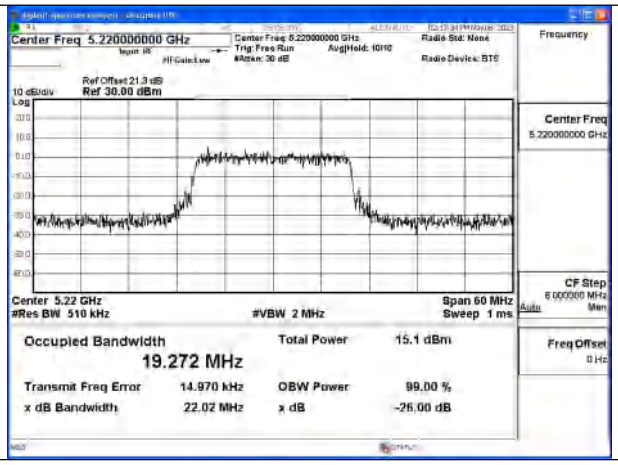


Test Mode:802.11ac VHT20 5240MHz Chain1

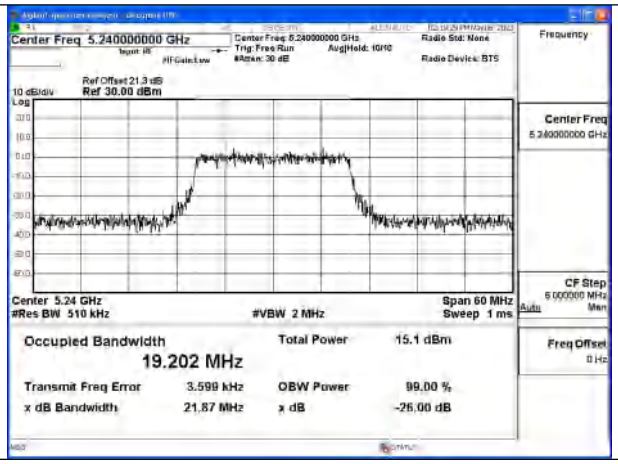
Test Mode: 802.11ax HE20



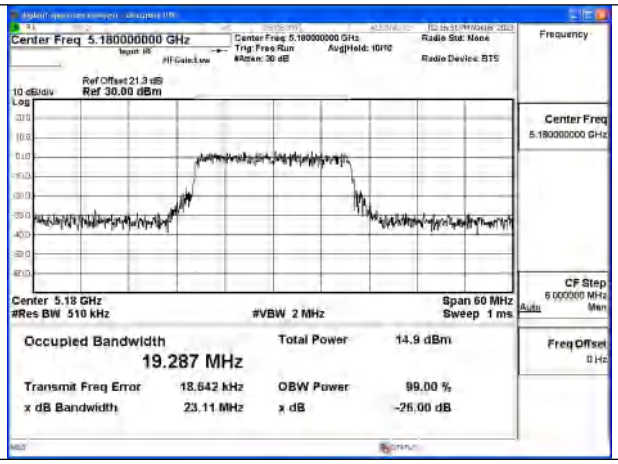
Test Mode:802.11ax HE20 5180MHz Chain0



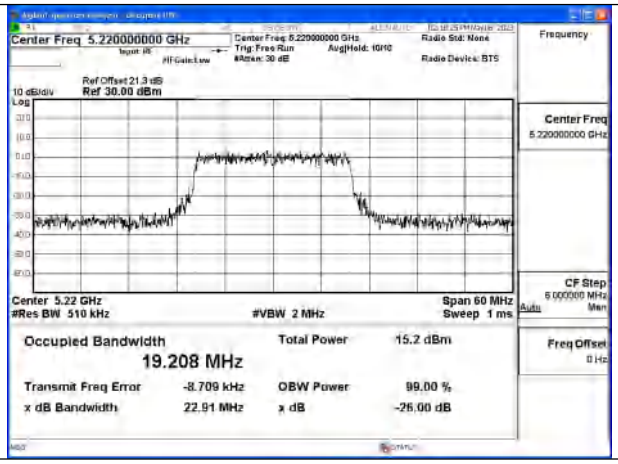
Test Mode:802.11ax HE20 5220MHz Chain0



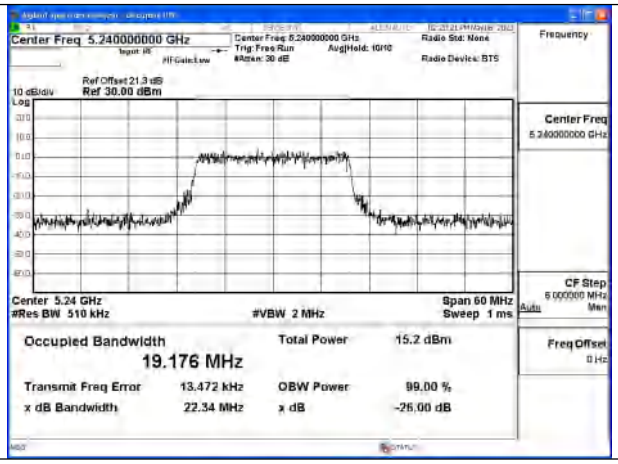
Test Mode:802.11ax HE20 5240MHz Chain0



Test Mode:802.11ax HE20 5180MHz Chain1

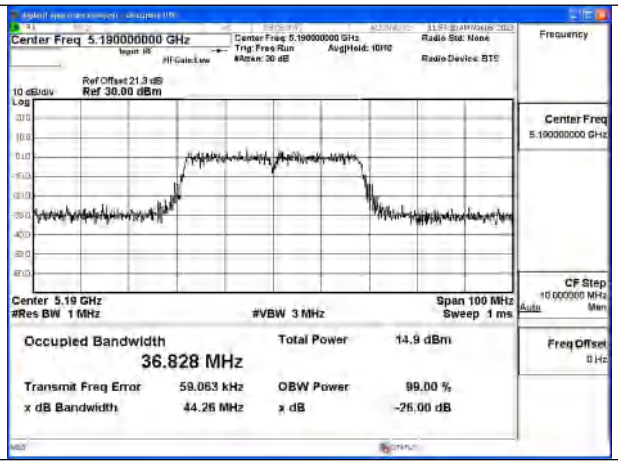


Test Mode:802.11ax HE20 5220MHz Chain1

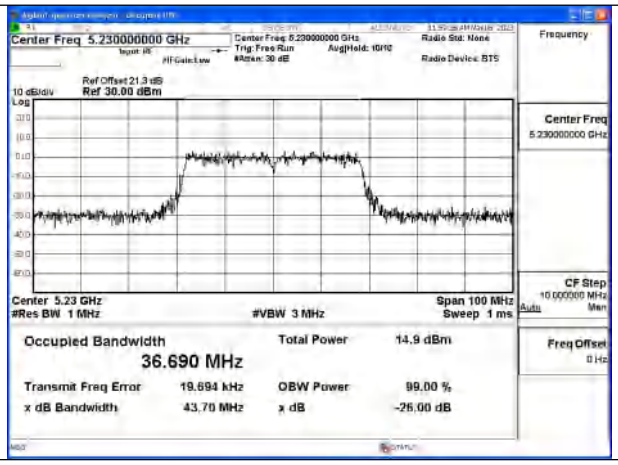


Test Mode:802.11ax HE20 5240MHz Chain1

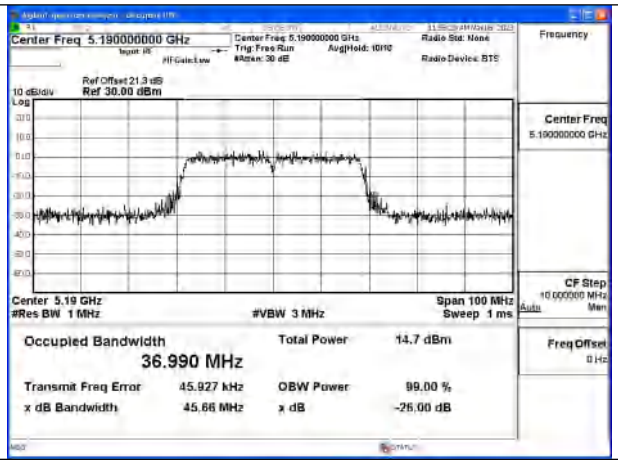
Test Mode: 802.11n HT40



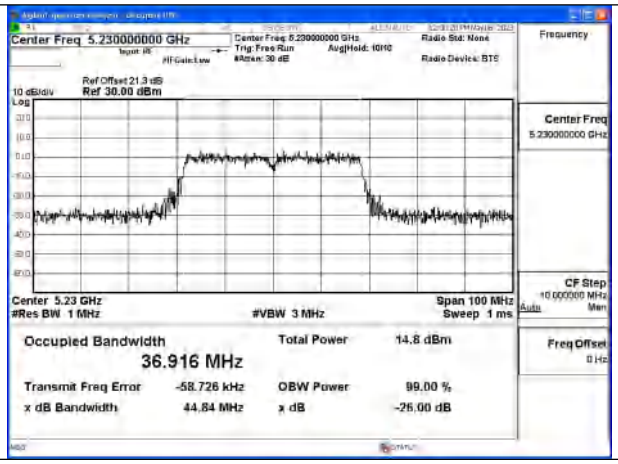
Test Mode:802.11n HT40 5190MHz Chain0



Test Mode:802.11n HT40 5230MHz Chain0

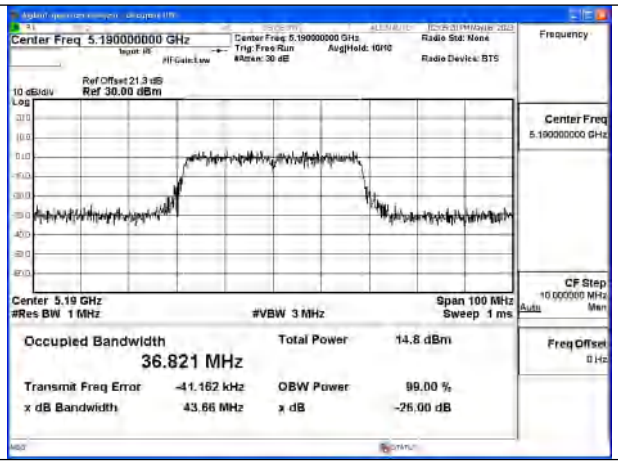


Test Mode:802.11n HT40 5190MHz Chain1

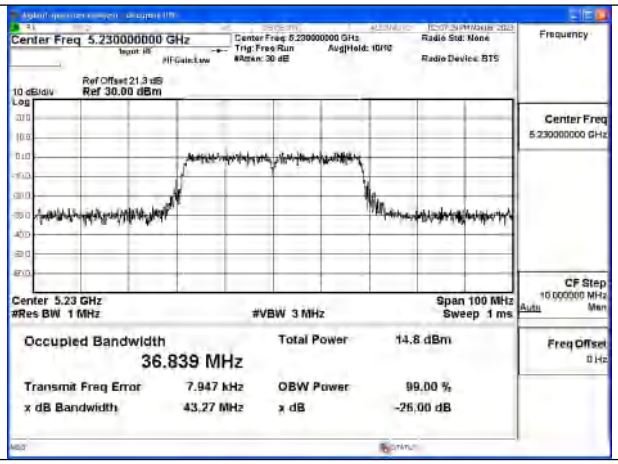


Test Mode:802.11n HT40 5230MHz Chain1

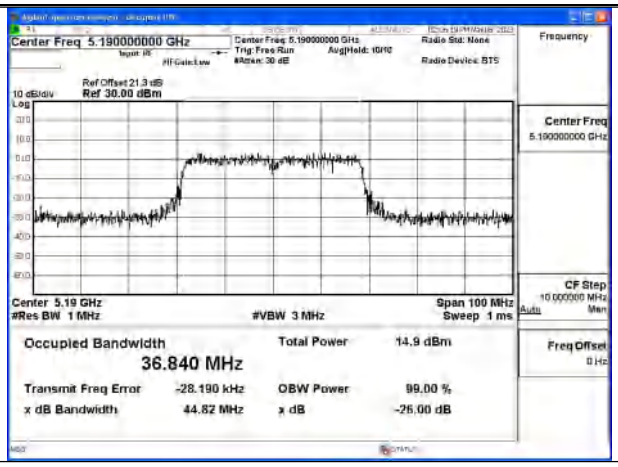
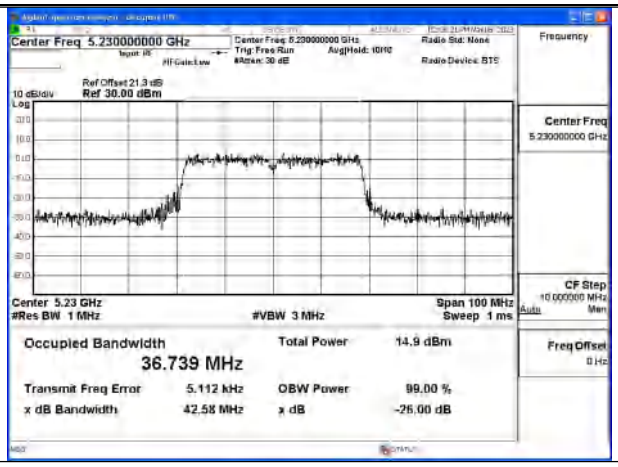
Test Mode: 802.11ac VHT40



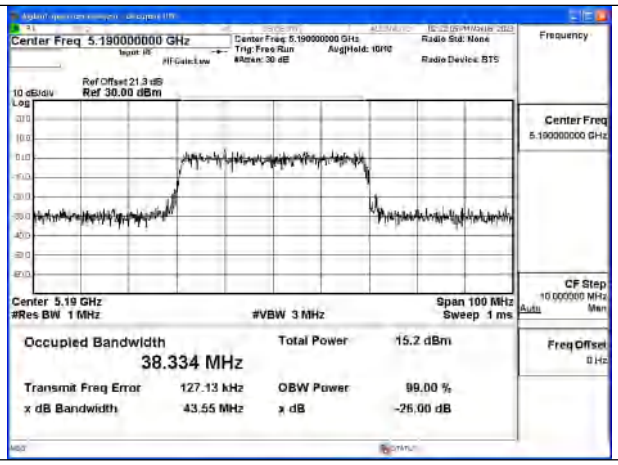
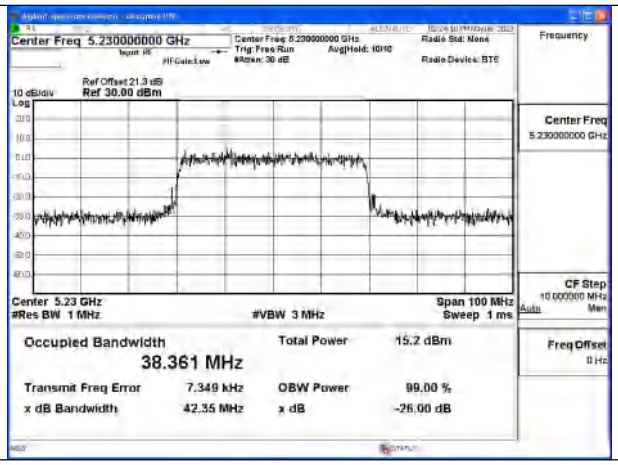
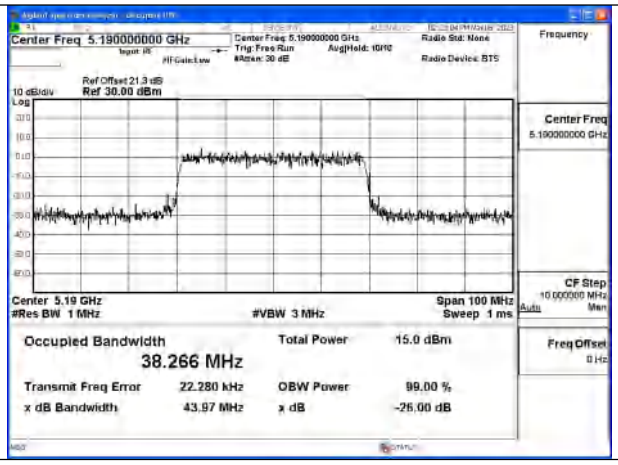
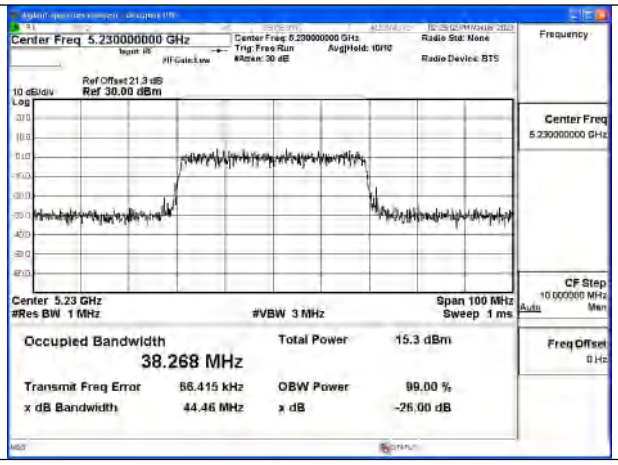
Test Mode:802.11ac VHT40 5190MHz Chain0



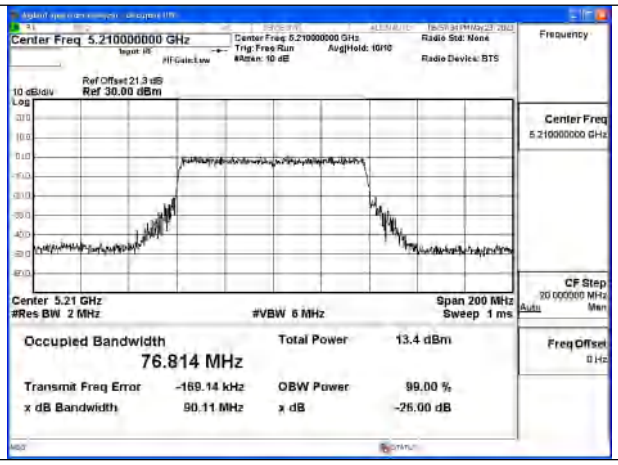
Test Mode:802.11ac VHT40 5230MHz Chain0

	
Test Mode:802.11ac VHT40 5190MHz Chain1	Test Mode:802.11ac VHT40 5230MHz Chain1

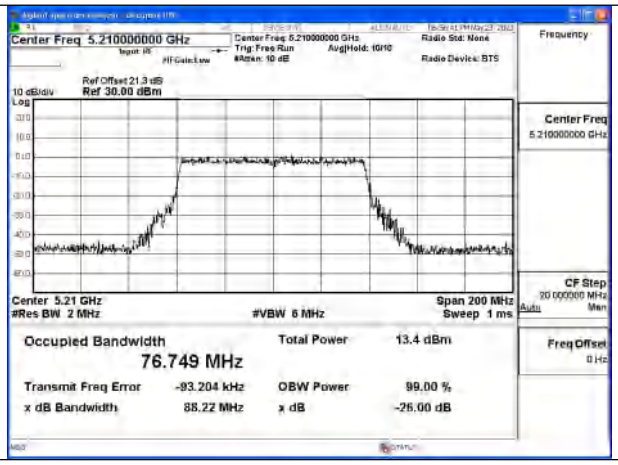
Test Mode: 802.11ax HE40

	
Test Mode:802.11ax HE40 5190MHz Chain0	Test Mode:802.11ax HE40 5230MHz Chain0
	
Test Mode:802.11ax HE40 5190MHz Chain1	Test Mode:802.11ax HE40 5230MHz Chain1

Test Mode: 802.11ac VHT80

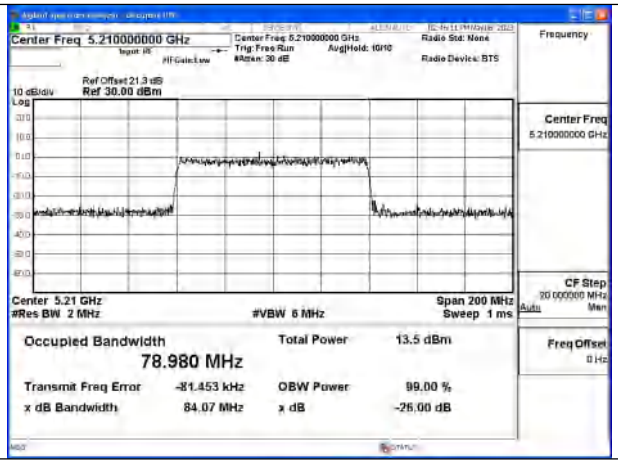


Test Mode:802.11ac VHT80 5210MHz Chain0

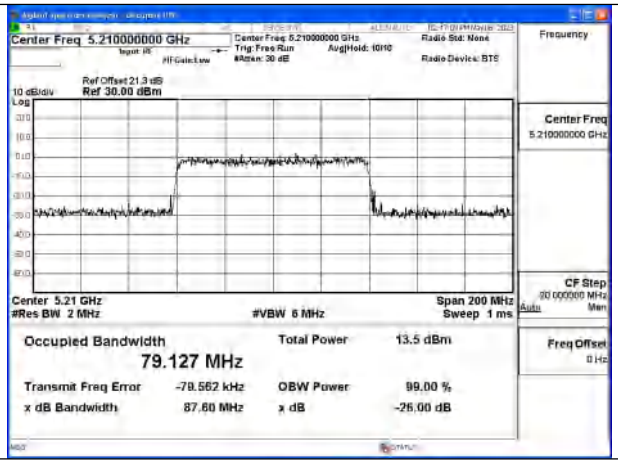


Test Mode:802.11ac VHT80 5210MHz Chain1

Test Mode: 802.11ax HE80

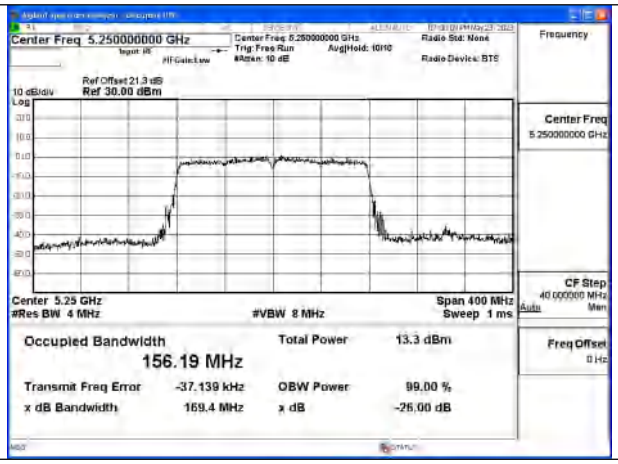


Test Mode:802.11ax HE80 5210MHz Chain0

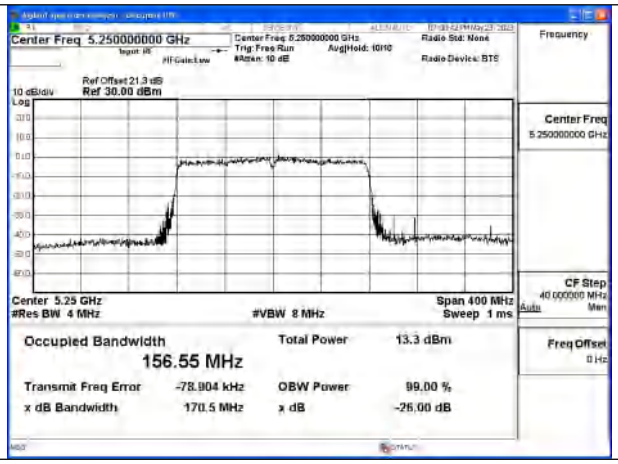


Test Mode:802.11ax HE80 5210MHz Chain1

Test Mode: 802.11ac VHT160

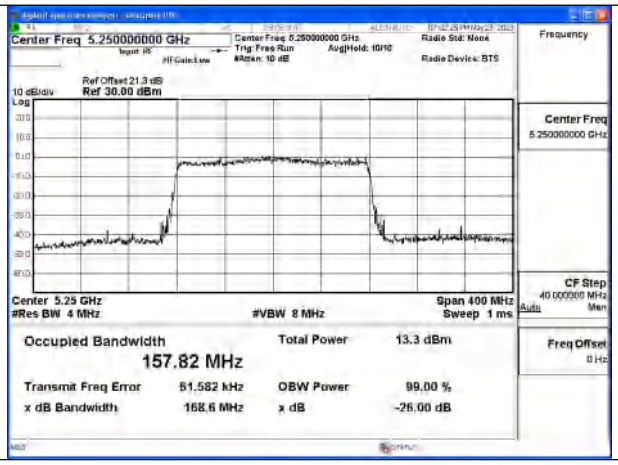
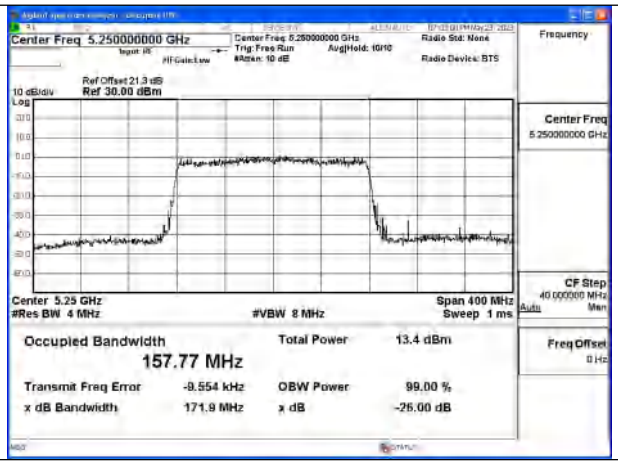


Test Mode:802.11ac VHT160 5250MHz Chain0



Test Mode:802.11ac VHT160 5250MHz Chain1

Test Mode: 802.11ax HE160

	
Test Mode:802.11ax HE160 5250MHz Chain0	Test Mode:802.11ax HE160 5250MHz Chain1

Transmitter Power Spectral Density

Offset 21.3dB = Attenuator + Temporary antenna connector loss + Cable loss

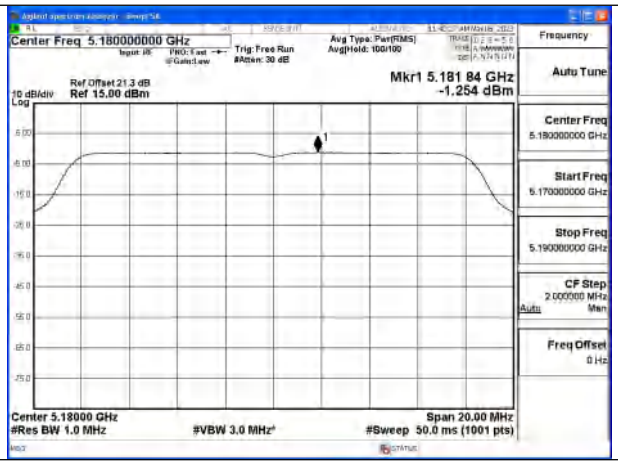
Test Mode	Antenna	Tones	5180MHz		5220MHz		5240MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	NA	0	-1.254	---	-1.167	---	-1.085
802.11a	Chain1	NA	---	-1.274	---	-1.118	---	-1.073
802.11n HT20	Chain0	NA	0	-1.509	---	-1.410	---	-1.379
802.11n HT20	Chain1	NA	---	-1.491	---	-1.423	---	-1.379
802.11n HT20	MIMO	NA	---	1.510	---	1.594	---	1.631
802.11ac VHT20	Chain0	NA	0	-1.561	---	-1.452	---	-1.318
802.11ac VHT20	Chain1	NA	---	-1.538	---	-1.407	---	-1.396
802.11ac VHT20	MIMO	NA	---	1.461	---	1.581	---	1.653
802.11ax HE20	Chain0	26T	0	2.957	---	2.956	---	3.160
802.11ax HE20	Chain1	26T	---	3.061	---	2.984	---	3.215
802.11ax HE20	MIMO	26T	---	6.020	---	5.980	---	6.198
802.11ax HE20	Chain0	52T	0	0.137	---	0.053	---	0.228
802.11ax HE20	Chain1	52T	---	0.147	---	0.042	---	0.256
802.11ax HE20	MIMO	52T	---	3.152	---	3.058	---	3.252
802.11ax HE20	Chain0	106T	0	-3.027	---	-3.063	---	-2.845
802.11ax HE20	Chain1	106T	---	-2.974	---	-3.016	---	-2.872
802.11ax HE20	MIMO	106T	---	0.010	---	-0.029	---	0.152
802.11ax HE20	Chain0	242T	0	-1.760	---	-1.619	---	-1.577
802.11ax HE20	Chain1	242T	---	-1.752	---	-1.638	---	-1.558
802.11ax HE20	MIMO	242T	---	1.254	---	1.382	---	1.443

Test Mode	Antenna	Tones	5190MHz		---		5230MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	NA	0	-4.464	---	---	---	-4.383
802.11n HT40	Chain1	NA	---	-4.465	---	---	---	-4.356
802.11n HT40	MIMO	NA	---	-1.454	---	---	---	-1.359
802.11ac VHT40	Chain0	NA	0	-4.449	---	---	---	-4.294
802.11ac VHT40	Chain1	NA	---	-4.483	---	---	---	-4.328
802.11ac VHT40	MIMO	NA	---	-1.456	---	---	---	-1.301
802.11ax HE40	Chain0	26T	0	2.740	---	---	---	2.828
802.11ax HE40	Chain1	26T	---	2.807	---	---	---	2.859
802.11ax HE40	MIMO	26T	---	5.784	---	---	---	5.854
802.11ax HE40	Chain0	52T	0	0.041	---	---	---	0.100
802.11ax HE40	Chain1	52T	---	0.043	---	---	---	0.091
802.11ax HE40	MIMO	52T	---	3.052	---	---	---	3.106
802.11ax HE40	Chain0	106T	0	-3.145	---	---	---	-3.028
802.11ax HE40	Chain1	106T	---	-3.125	---	---	---	-3.156
802.11ax HE40	MIMO	106T	---	-0.125	---	---	---	-0.081
802.11ax HE40	Chain0	242T	0	-6.829	---	---	---	-6.830
802.11ax HE40	Chain1	242T	---	-6.796	---	---	---	-6.785
802.11ax HE40	MIMO	242T	---	-3.802	---	---	---	-3.797
802.11ax HE40	Chain0	484T	0	-7.564	---	---	---	-7.523
802.11ax HE40	Chain1	484T	---	-7.553	---	---	---	-7.581
802.11ax HE40	MIMO	484T	---	-4.548	---	---	---	-4.542

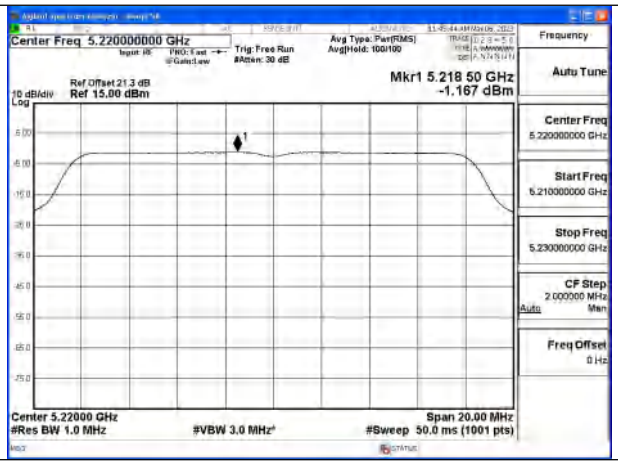
Test Mode	Antenna	Tones	5210MHz		---		---	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	NA	0	-7.395	---	---	---	---
802.11ac VHT80	Chain1	NA	---	-7.371	---	---	---	---
802.11ac VHT80	MIMO	NA	---	-4.373	---	---	---	---
802.11ax HE80	Chain0	26T	0	2.508	---	---	---	---
802.11ax HE80	Chain1	26T	---	2.632	---	---	---	---
802.11ax HE80	MIMO	26T	---	5.581	---	---	---	---
802.11ax HE80	Chain0	52T	0	-0.028	---	---	---	---
802.11ax HE80	Chain1	52T	---	-0.138	---	---	---	---
802.11ax HE80	MIMO	52T	---	2.928	---	---	---	---
802.11ax HE80	Chain0	106T	0	-3.183	---	---	---	---
802.11ax HE80	Chain1	106T	---	-3.118	---	---	---	---
802.11ax HE80	MIMO	106T	---	-0.140	---	---	---	---
802.11ax HE80	Chain0	242T	0	-6.893	---	---	---	---
802.11ax HE80	Chain1	242T	---	-6.843	---	---	---	---
802.11ax HE80	MIMO	242T	---	-3.858	---	---	---	---
802.11ax HE80	Chain0	484T	0	-12.708	---	---	---	---
802.11ax HE80	Chain1	484T	---	-12.706	---	---	---	---
802.11ax HE80	MIMO	484T	---	-9.697	---	---	---	---
802.11ax HE80	Chain0	996T	0	-10.205	---	---	---	---
802.11ax HE80	Chain1	996T	---	-10.190	---	---	---	---
802.11ax HE80	MIMO	996T	---	-7.187	---	---	---	---

Test Mode	Antenna	Tones	5250MHz		---		---	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT160	Chain0	NA	0	-9.270	---	---	---	---
802.11ac VHT160	Chain1	NA	---	-9.267	---	---	---	---
802.11ac VHT160	MIMO	NA	---	-6.258	---	---	---	---
802.11ax HE160	Chain0	1992T	0	-9.453	---	---	---	---
802.11ax HE160	Chain1	1992T	---	-9.389	---	---	---	---
802.11ax HE160	MIMO	1992T	---	-6.411	---	---	---	---

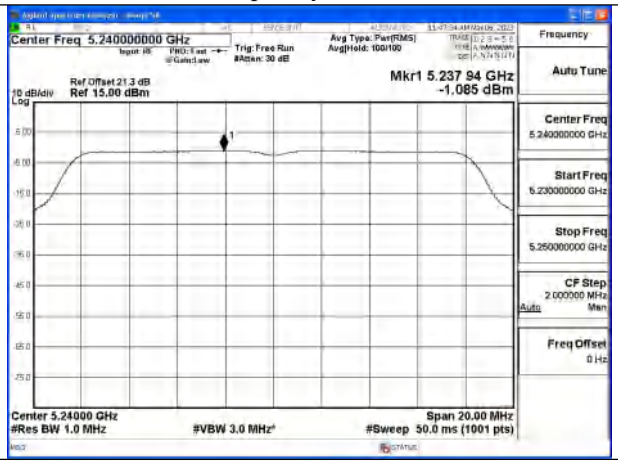
Test Mode: 802.11a



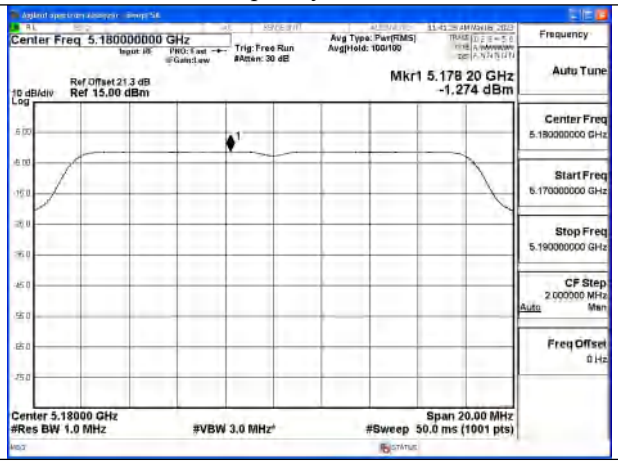
Mode:802.11a Frequency:5180MHz Ant:Chain0



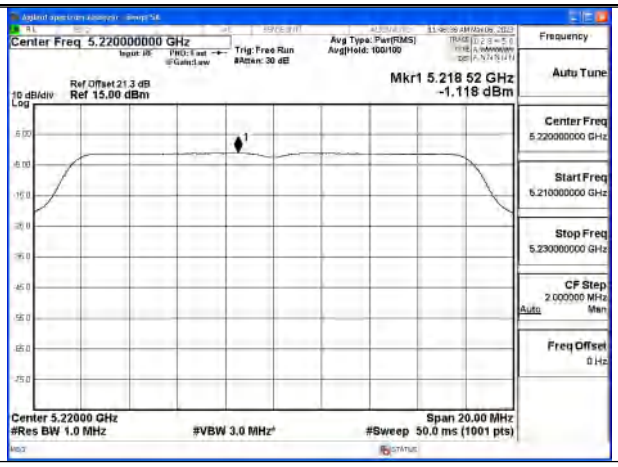
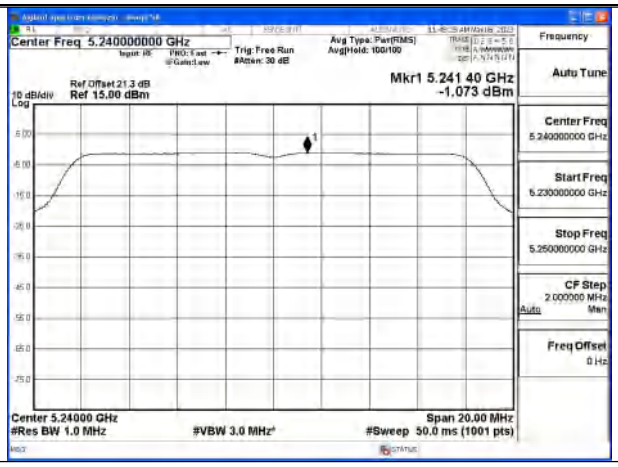
Mode:802.11a Frequency:5220MHz Ant:Chain0



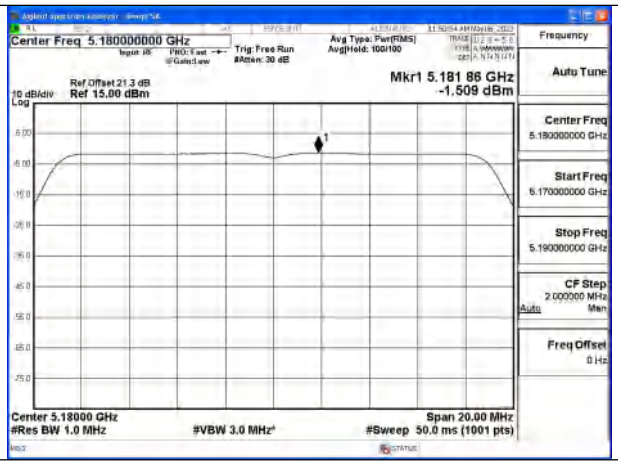
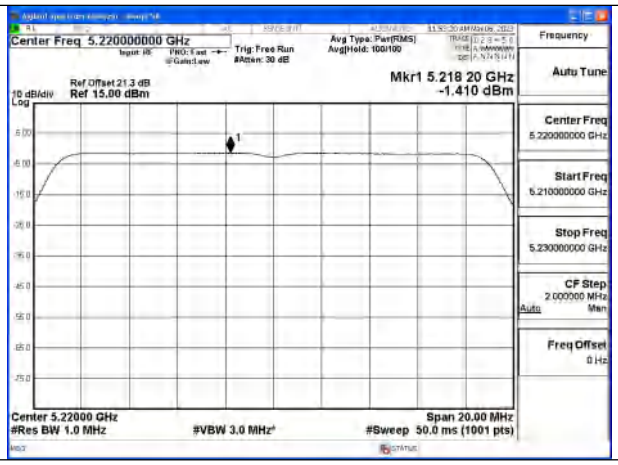
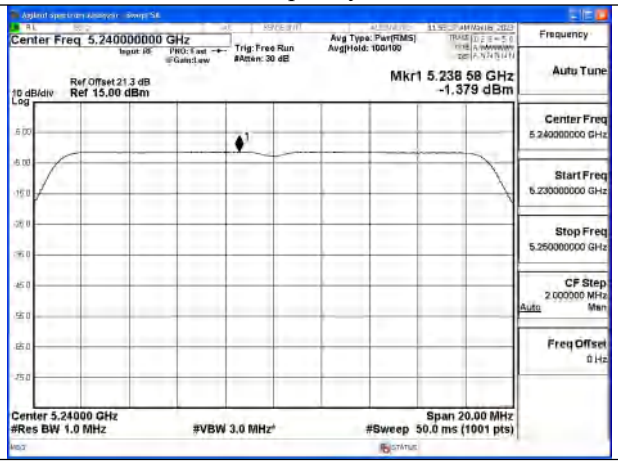
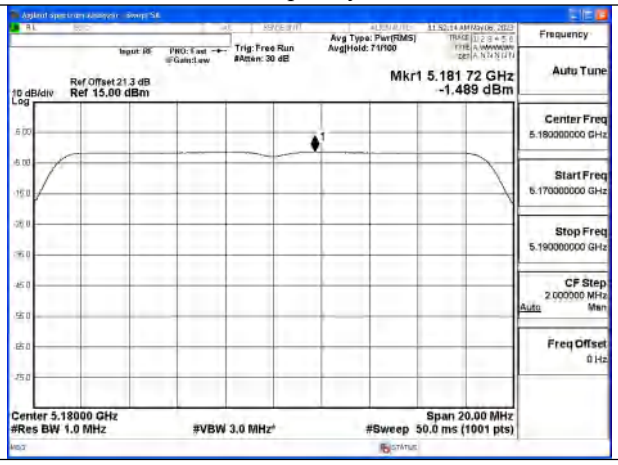
Mode:802.11a Frequency:5240MHz Ant:Chain0

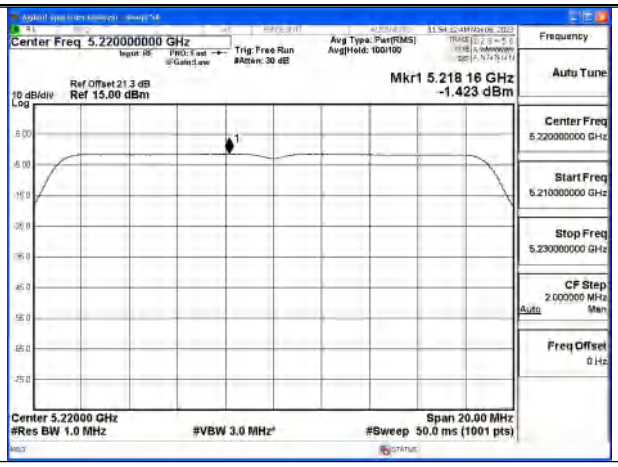
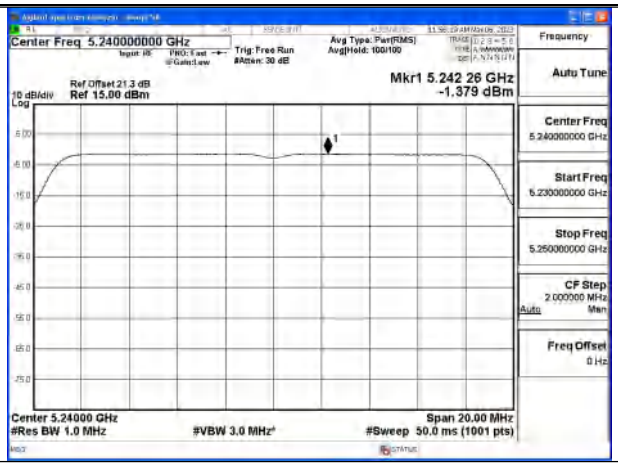


Mode:802.11a Frequency:5180MHz Ant:Chain1

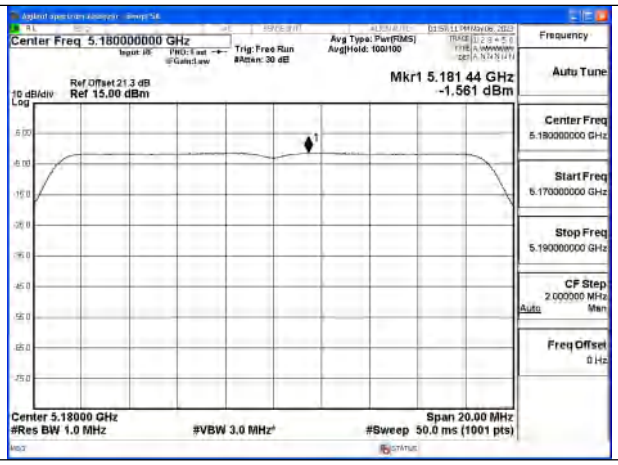
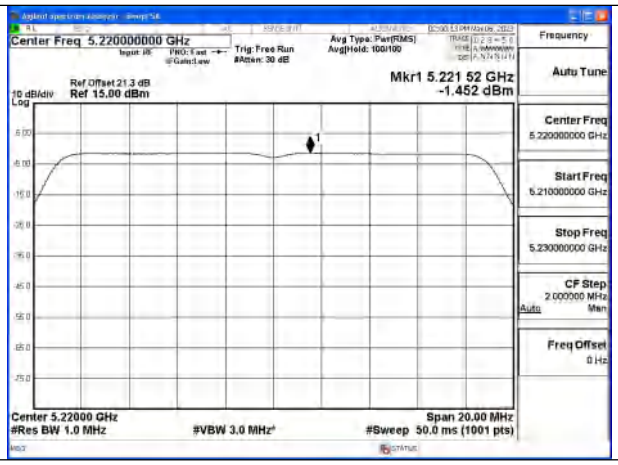
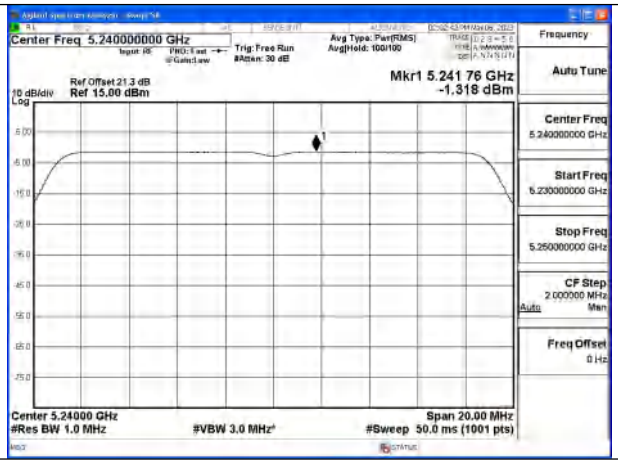
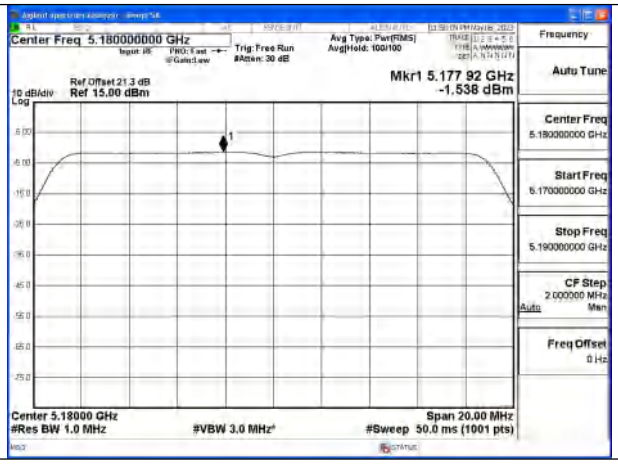
	
Mode:802.11a Frequency:5220MHz Ant:Chain1	Mode:802.11a Frequency:5240MHz Ant:Chain1

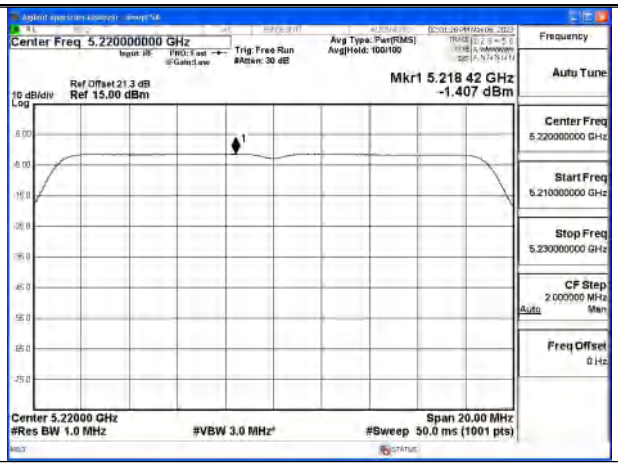
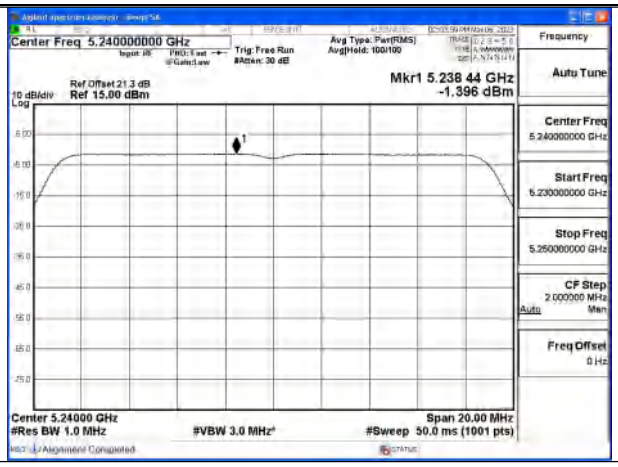
Test Mode: 802.11n HT20

	
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

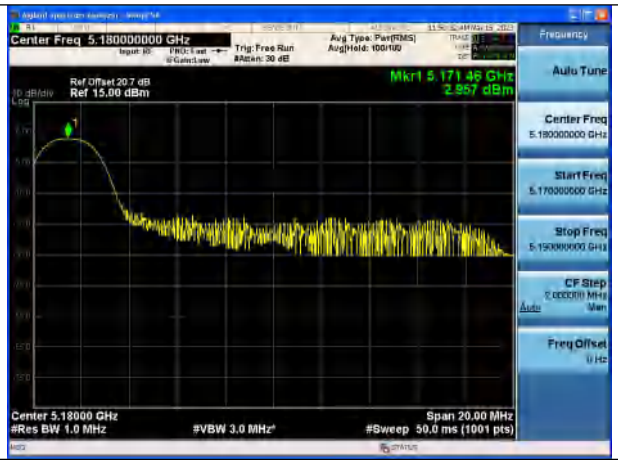
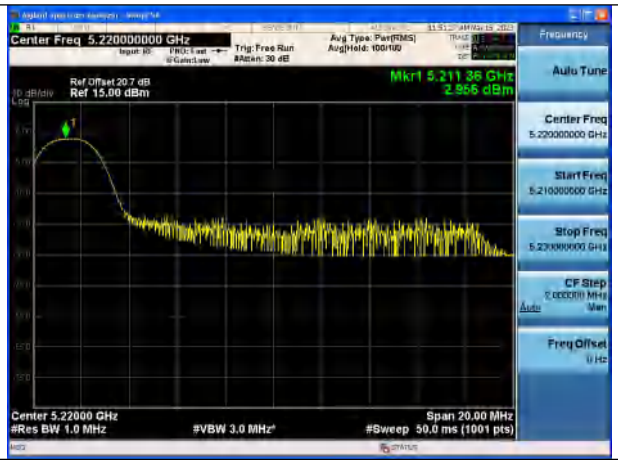
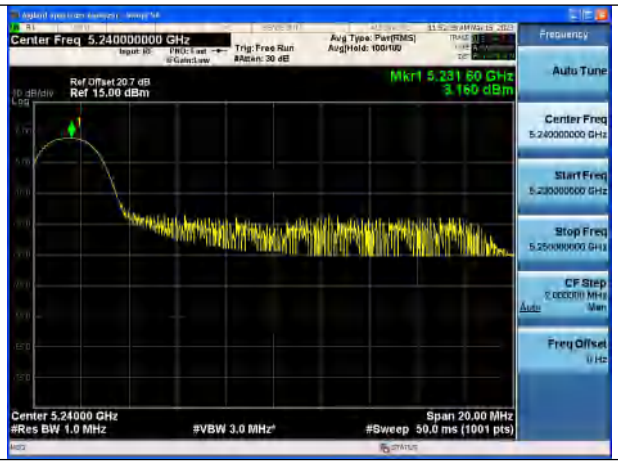
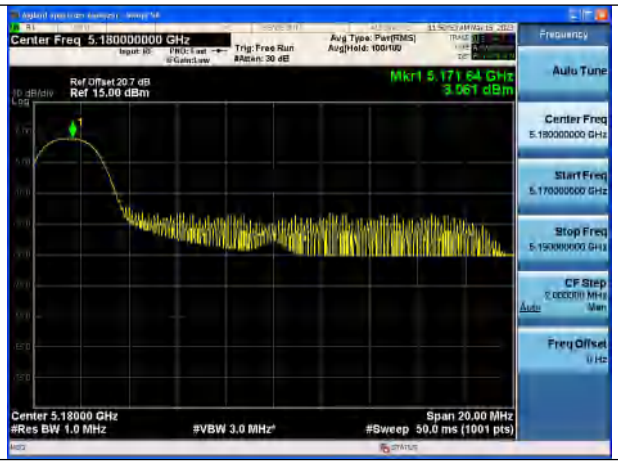
	
Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1	Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ac VHT20

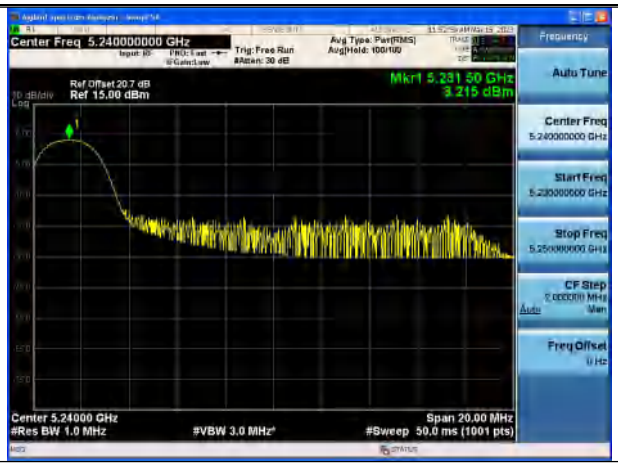
	
Mode:802.11ac VHT20 Frequency:5180MHz Ant:Chain0	Mode:802.11ac VHT20 Frequency:5220MHz Ant:Chain0
	
Mode:802.11ac VHT20 Frequency:5240MHz Ant:Chain0	Mode:802.11ac VHT20 Frequency:5180MHz Ant:Chain1

	
Mode:802.11ac VHT20 Frequency:5220MHz Ant:Chain1	Mode:802.11ac VHT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ax HE20

	
Mode:802.11ax HE20 Tone:26T Frequency:5180MHz Ant:Chain0	Mode:802.11ax HE20 Tone:26T Frequency:5220MHz Ant:Chain0
	
Mode:802.11ax HE20 Tone:26T Frequency:5240MHz Ant:Chain0	Mode:802.11ax HE20 Tone:26T Frequency:5180MHz Ant:Chain1

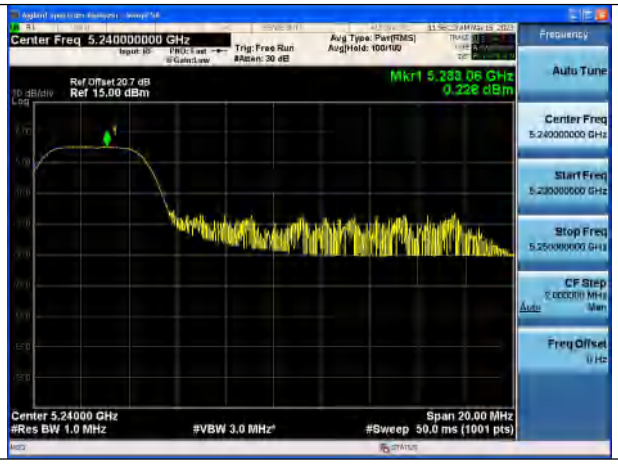
Mode:802.11ax HE20 Tone:26T Frequency:5220MHz
Ant:Chain1



Mode:802.11ax HE20 Tone:26T Frequency:5240MHz
Ant:Chain1

Mode:802.11ax HE20 Tone:52T Frequency:5180MHz
Ant:Chain0

Mode:802.11ax HE20 Tone:52T Frequency:5220MHz
Ant:Chain0

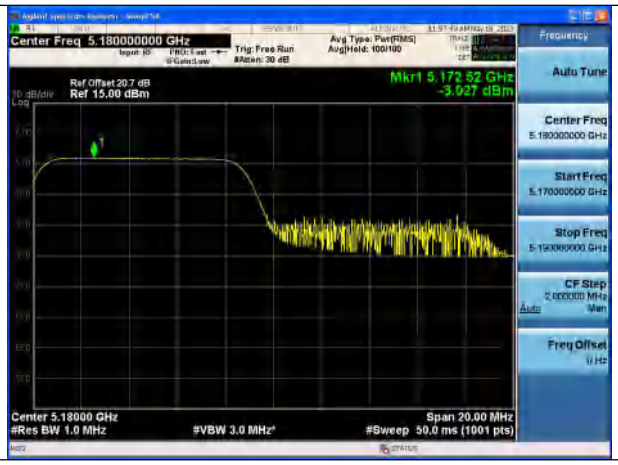


Mode:802.11ax HE20 Tone:52T Frequency:5240MHz
Ant:Chain0

Mode:802.11ax HE20 Tone:52T Frequency:5180MHz
Ant:Chain1

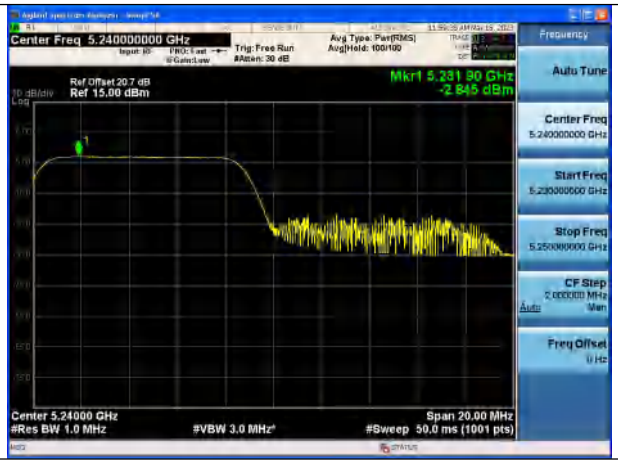
Mode:802.11ax HE20 Tone:52T Frequency:5220MHz
Ant:Chain1

Mode:802.11ax HE20 Tone:52T Frequency:5240MHz
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5180MHz
Ant:Chain0

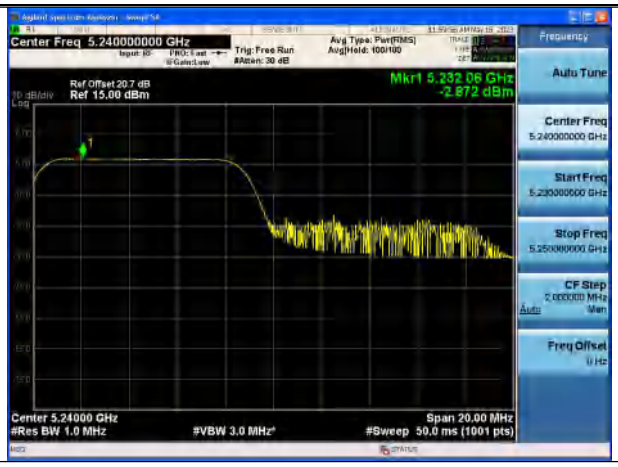
Mode:802.11ax HE20 Tone:106T Frequency:5220MHz
Ant:Chain0



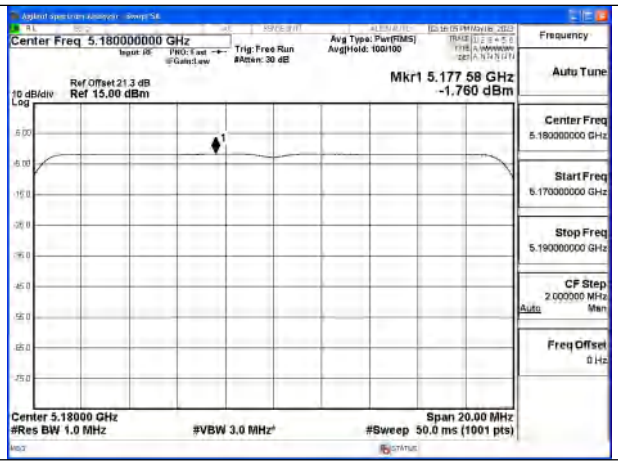
Mode:802.11ax HE20 Tone:106T Frequency:5240MHz
Ant:Chain0

Mode:802.11ax HE20 Tone:106T Frequency:5180MHz
Ant:Chain1

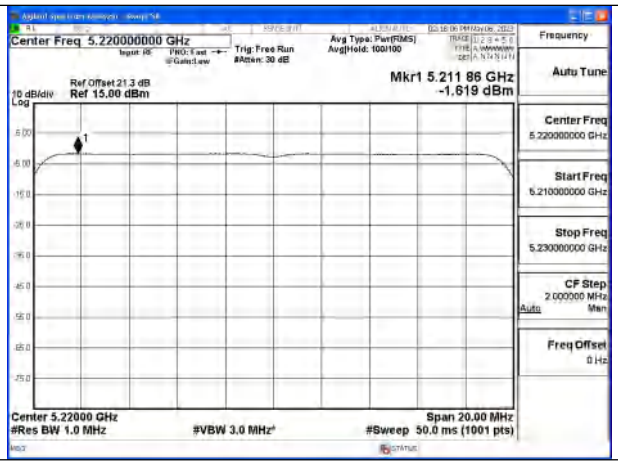
Mode:802.11ax HE20 Tone:106T Frequency:5220MHz Ant:Chain1



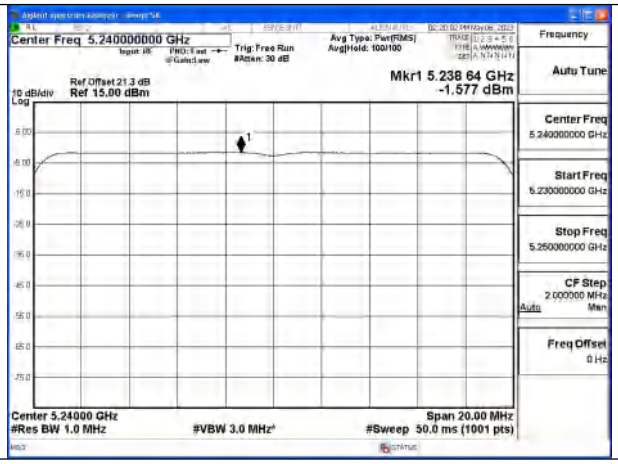
Mode:802.11ax HE20 Tone:106T Frequency:5240MHz Ant:Chain1



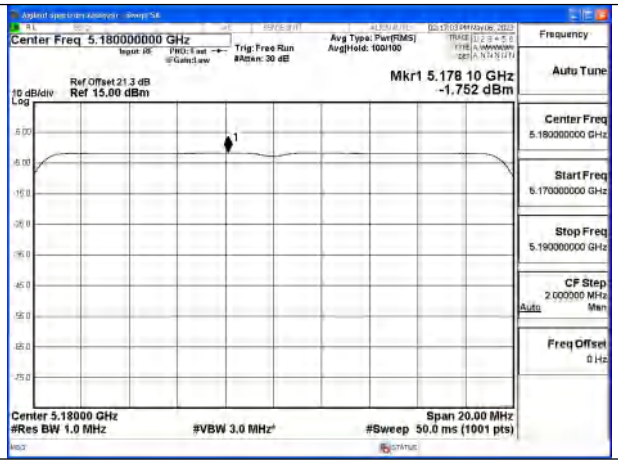
Mode:802.11ax HE20 Tone:242T Frequency:5180MHz Ant:Chain0



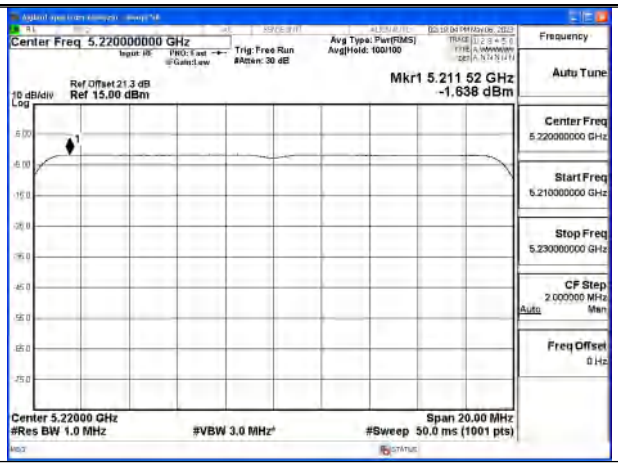
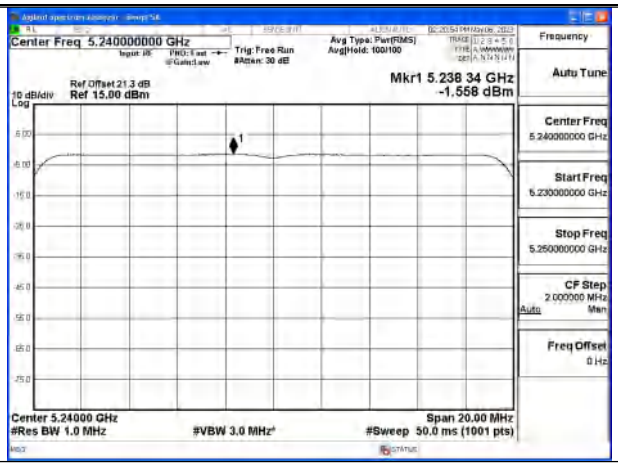
Mode:802.11ax HE20 Tone:242T Frequency:5220MHz Ant:Chain0



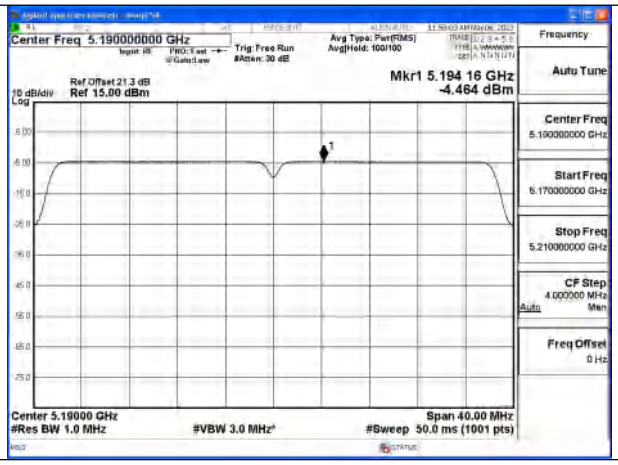
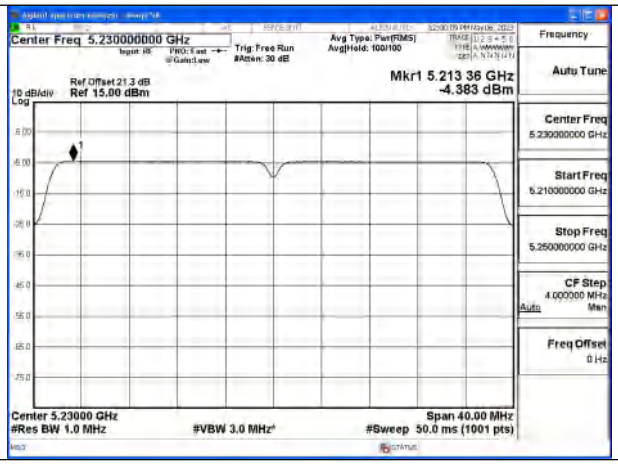
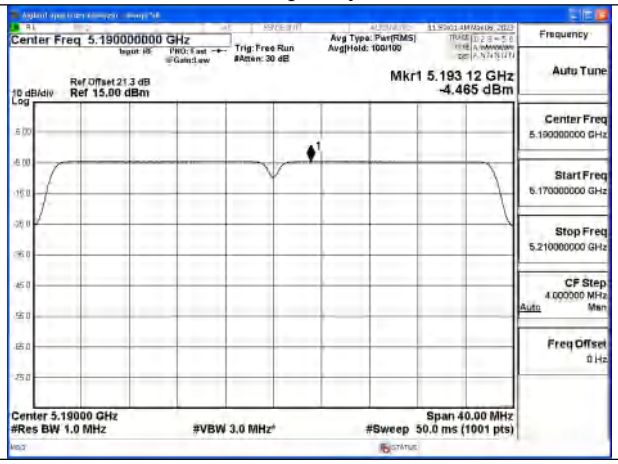
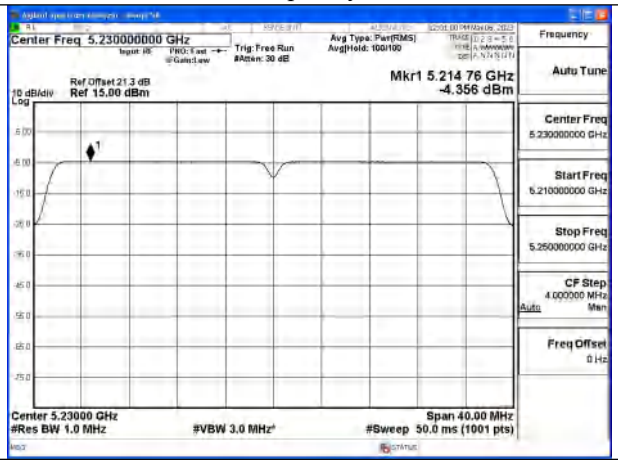
Mode:802.11ax HE20 Tone:242T Frequency:5240MHz Ant:Chain0



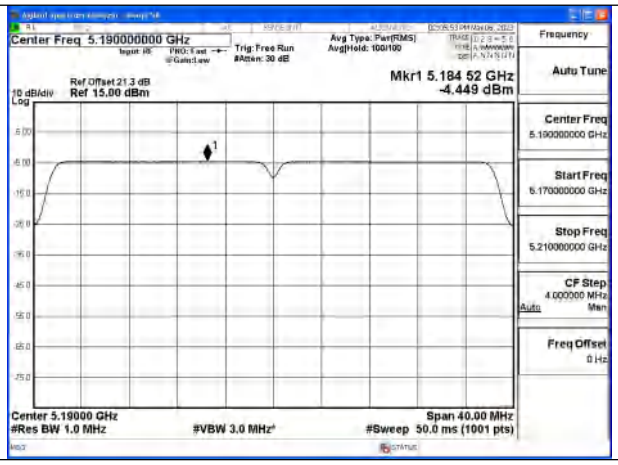
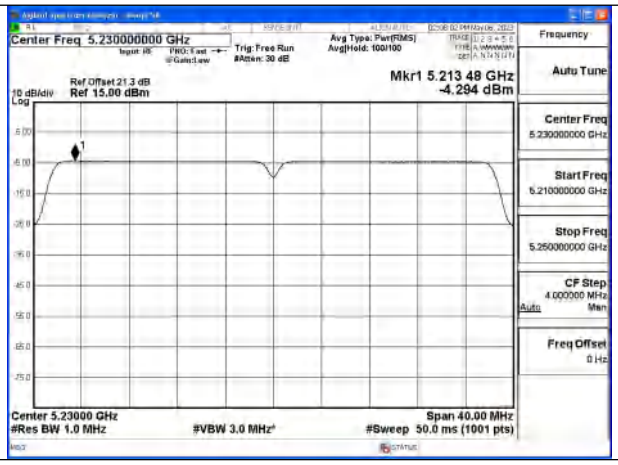
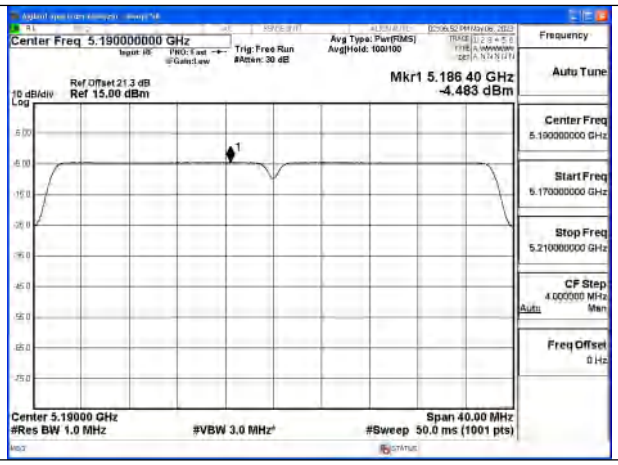
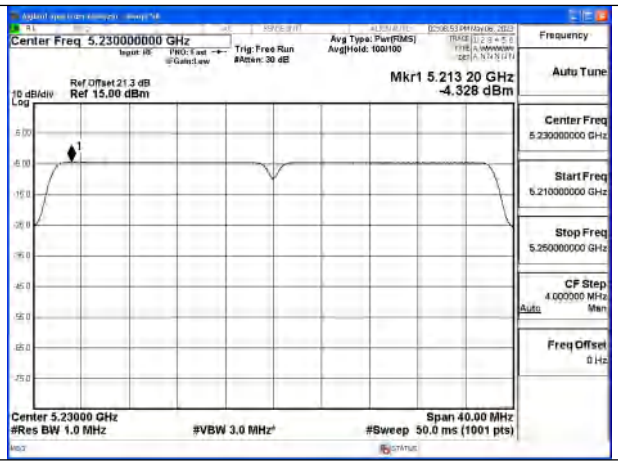
Mode:802.11ax HE20 Tone:242T Frequency:5180MHz Ant:Chain1

	
Mode:802.11ax HE20 Tone:242T Frequency:5220MHz Ant:Chain1	Mode:802.11ax HE20 Tone:242T Frequency:5240MHz Ant:Chain1

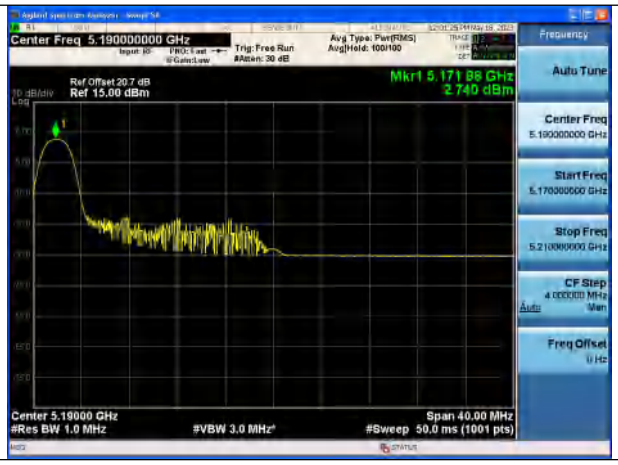
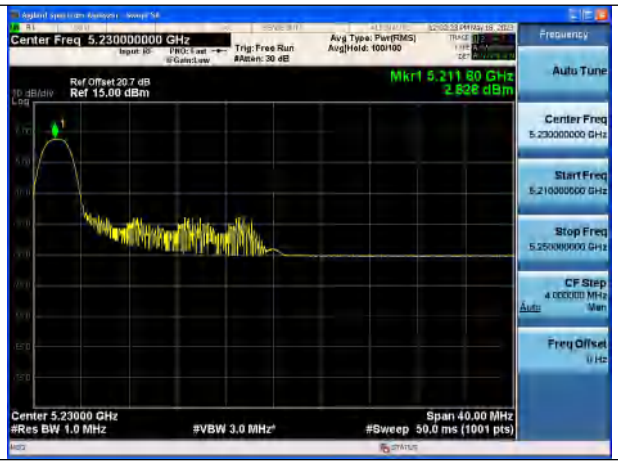
Test Mode: 802.11n HT40

	
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

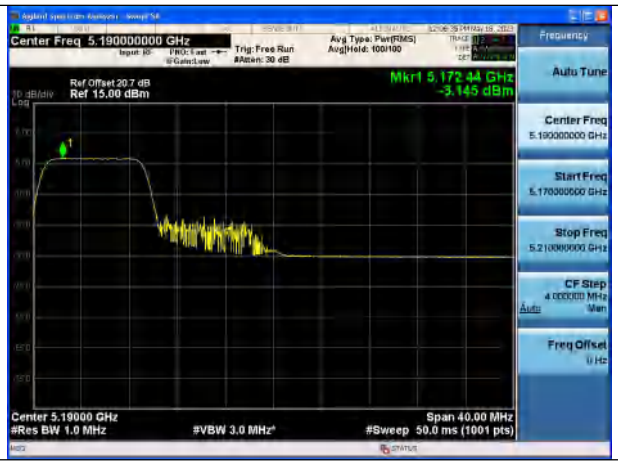
	
Mode:802.11ac VHT40 Frequency:5190MHz Ant:Chain0	Mode:802.11ac VHT40 Frequency:5230MHz Ant:Chain0
	
Mode:802.11ac VHT40 Frequency:5190MHz Ant:Chain1	Mode:802.11ac VHT40 Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ax HE40

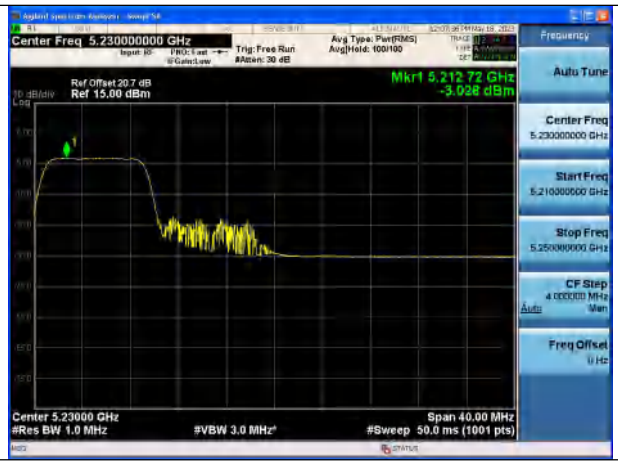
	
Mode:802.11ax HE40 Tone:26T Frequency:5190MHz Ant:Chain0	Mode:802.11ax HE40 Tone:26T Frequency:5230MHz Ant:Chain0
Mode:802.11ax HE40 Tone:26T Frequency:5190MHz Ant:Chain1	Mode:802.11ax HE40 Tone:26T Frequency:5230MHz Ant:Chain1
Mode:802.11ax HE40 Tone:52T Frequency:5190MHz Ant:Chain0	Mode:802.11ax HE40 Tone:52T Frequency:5230MHz Ant:Chain0

Mode:802.11ax HE40 Tone:52T Frequency:5190MHz Ant:Chain1

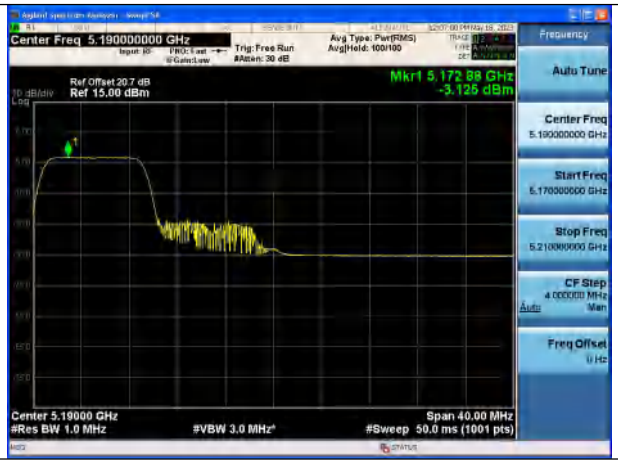
Mode:802.11ax HE40 Tone:52T Frequency:5230MHz Ant:Chain1



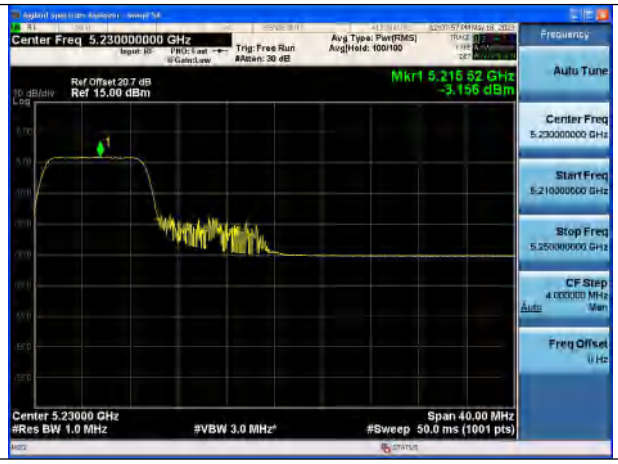
Mode:802.11ax HE40 Tone:106T Frequency:5190MHz Ant:Chain0



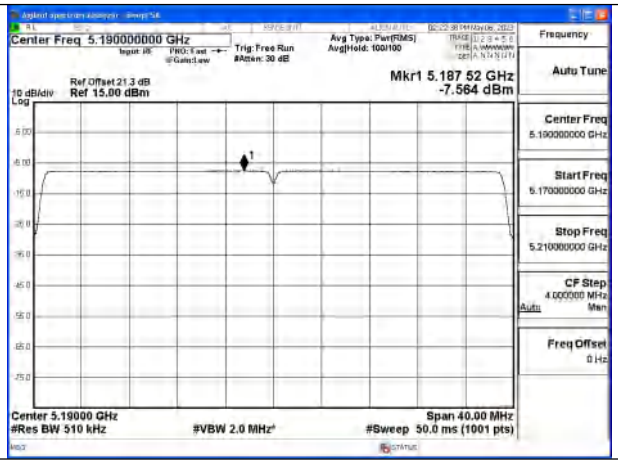
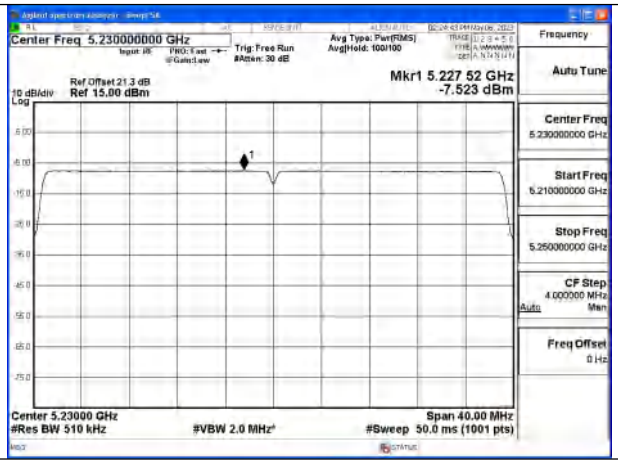
Mode:802.11ax HE40 Tone:106T Frequency:5230MHz Ant:Chain0

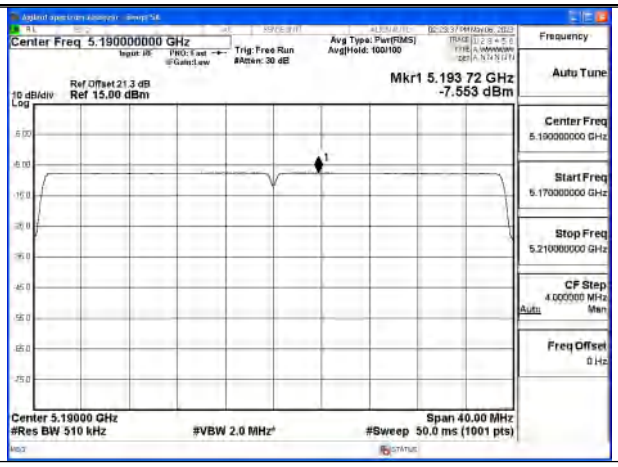
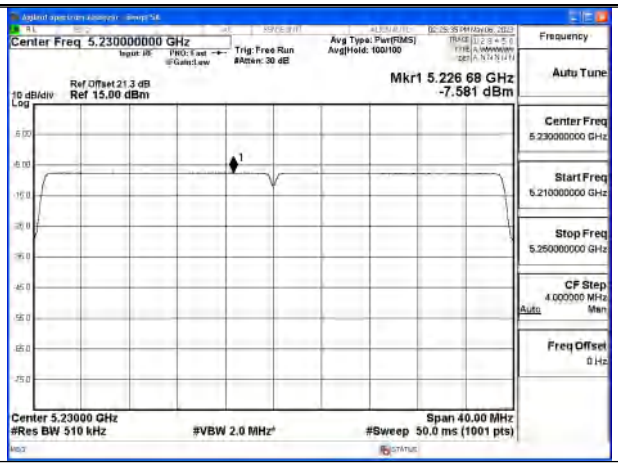


Mode:802.11ax HE40 Tone:106T Frequency:5190MHz Ant:Chain1

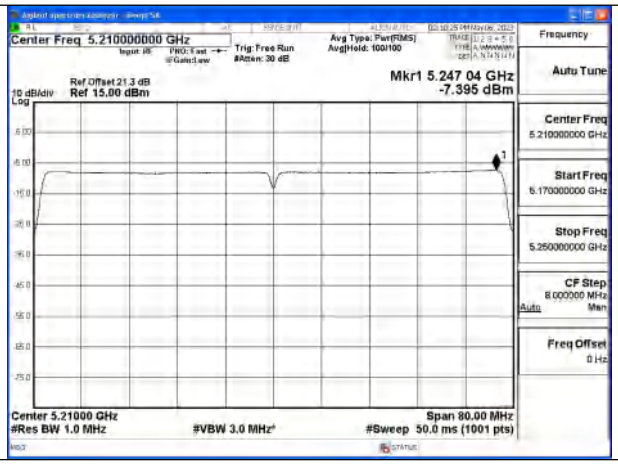
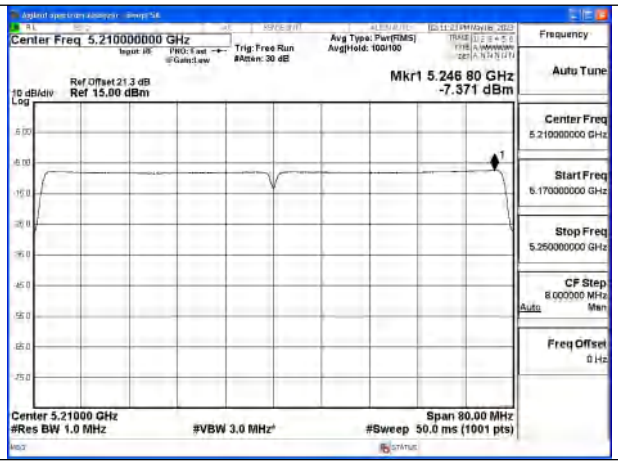


Mode:802.11ax HE40 Tone:106T Frequency:5230MHz Ant:Chain1

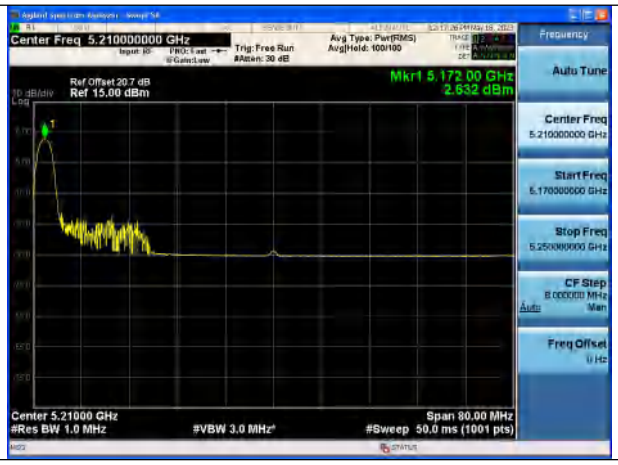
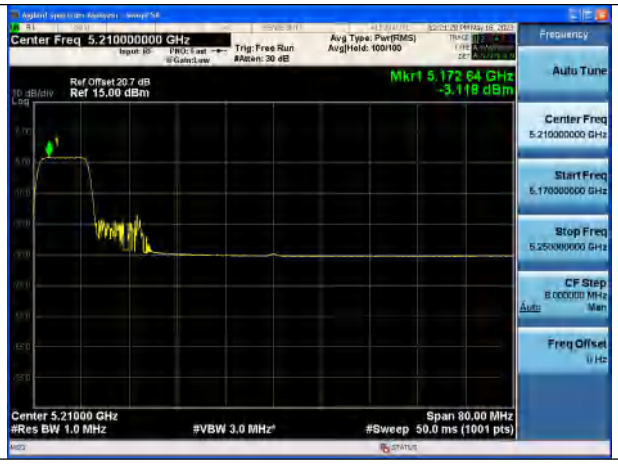
Mode:802.11ax HE40 Tone:242T Frequency:5190MHz Ant:Chain0	Mode:802.11ax HE40 Tone:242T Frequency:5230MHz Ant:Chain0
Mode:802.11ax HE40 Tone:242T Frequency:5190MHz Ant:Chain1	Mode:802.11ax HE40 Tone:242T Frequency:5230MHz Ant:Chain1
	
Mode:802.11ax HE40 Tone:484T Frequency:5190MHz Ant:Chain0	Mode:802.11ax HE40 Tone:484T Frequency:5230MHz Ant:Chain0

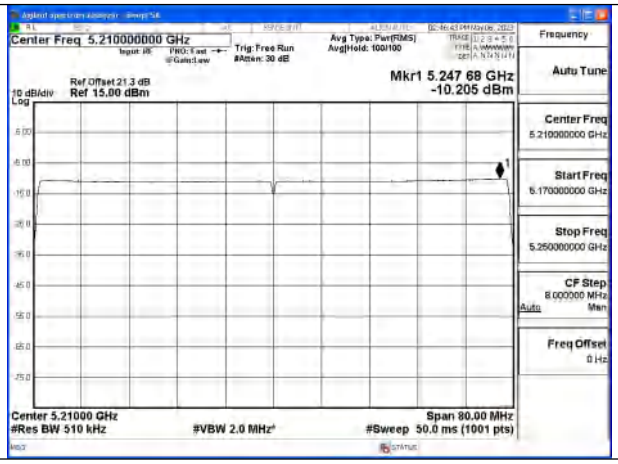
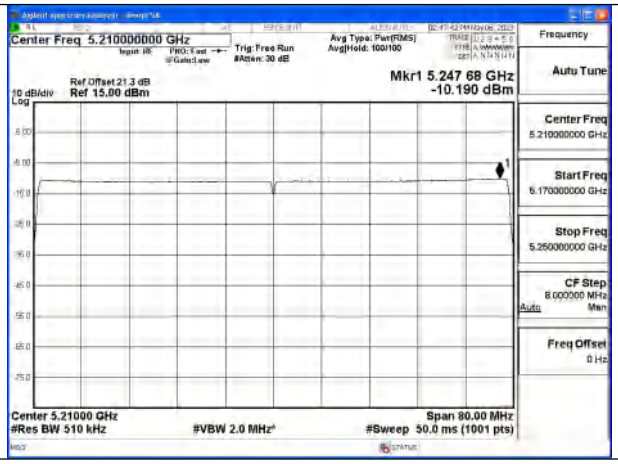
	
Mode:802.11ax HE40 Tone:484T Frequency:5190MHz Ant:Chain1	Mode:802.11ax HE40 Tone:484T Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ac VHT80

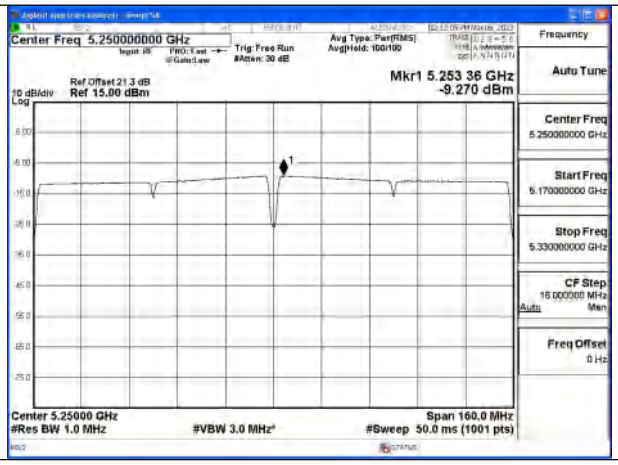
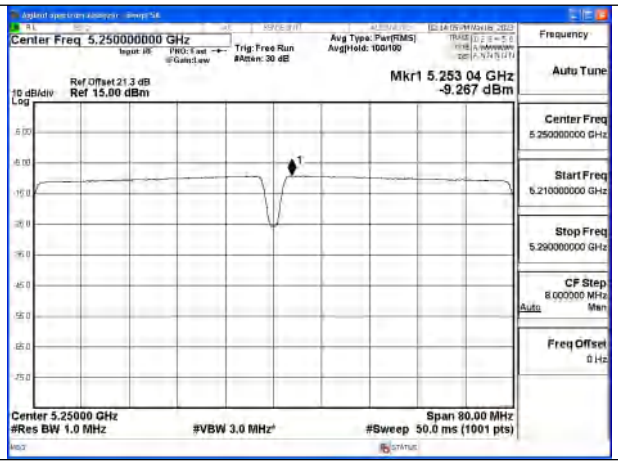
	
Mode:802.11ac VHT80 Frequency:5210MHz Ant:Chain0	Mode:802.11ac VHT80 Frequency:5210MHz Ant:Chain1

Test Mode: 802.11ax HE80

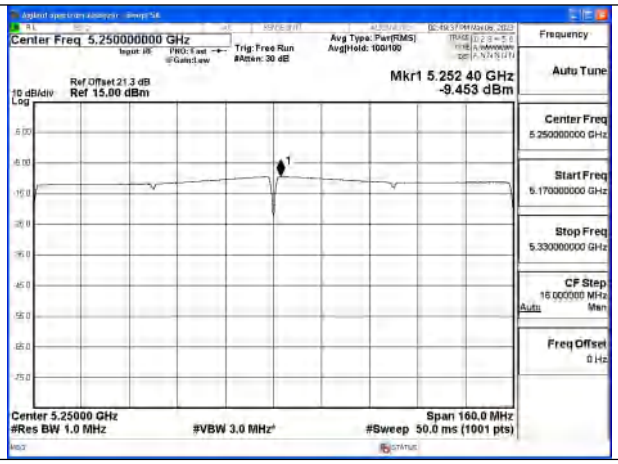
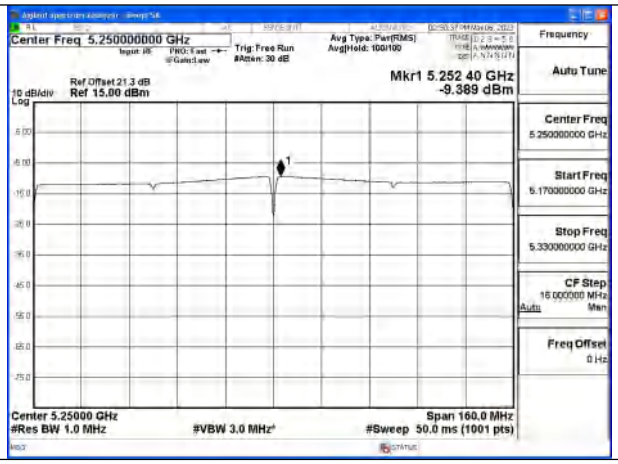
	
Mode:802.11ax HE80 Tone:26T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:26T Frequency:5210MHz Ant:Chain1
Mode:802.11ax HE80 Tone:52T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:52T Frequency:5210MHz Ant:Chain1
	
Mode:802.11ax HE80 Tone:106T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:106T Frequency:5210MHz Ant:Chain1

Mode:802.11ax HE80 Tone:242T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:242T Frequency:5210MHz Ant:Chain1
Mode:802.11ax HE80 Tone:484T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:484T Frequency:5210MHz Ant:Chain1
	
Mode:802.11ax HE80 Tone:996T Frequency:5210MHz Ant:Chain0	Mode:802.11ax HE80 Tone:996T Frequency:5210MHz Ant:Chain1

Test Mode: 802.11ac VHT160

	
Mode:802.11ac VHT160 Frequency:5250MHz Ant:Chain0	Mode:802.11ac VHT160 Frequency:5250MHz Ant:Chain1

Test Mode: 802.11ax HE160

	
Mode:802.11ax HE160 Tone:1992T Frequency:5250MHz Ant:Chain0	Mode:802.11ax HE160 Tone:1992T Frequency:5250MHz Ant:Chain1