

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:5500MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5580MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5700MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5500MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5580MHz Ant:Chain1

Mode:802.11n HT20 Frequency:5700MHz Ant:Chain1

Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5500MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5580MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5700MHz
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5500MHz
Ant:Chain1

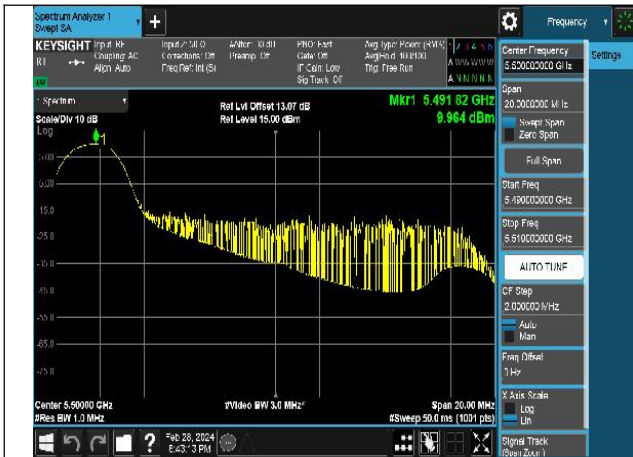


Mode:802.11ac VHT20 Frequency:5580MHz
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5700MHz
Ant:Chain1

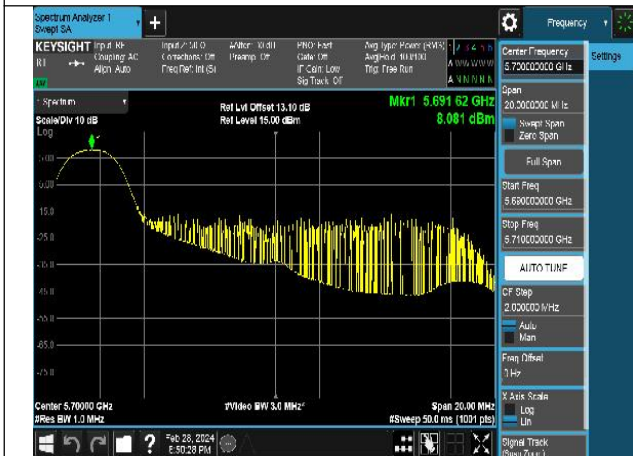
Test Mode: 802.11ax HE20



Mode:802.11ax HE20 Tone:26T Frequency:5500MHz
Ant:Chain0



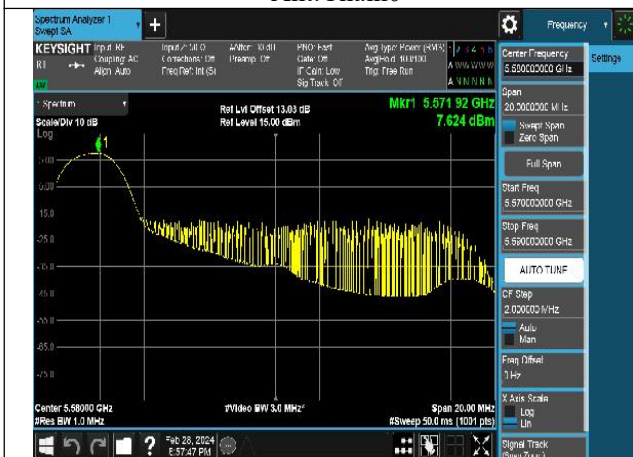
Mode:802.11ax HE20 Tone:26T Frequency:5580MHz
Ant:Chain0



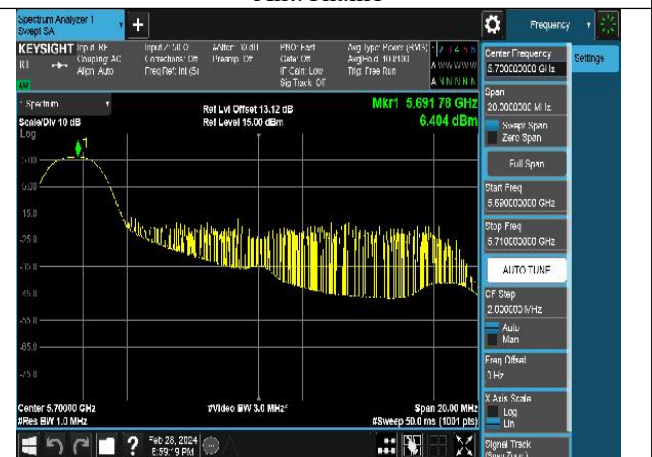
Mode:802.11ax HE20 Tone:26T Frequency:5700MHz
Ant:Chain0



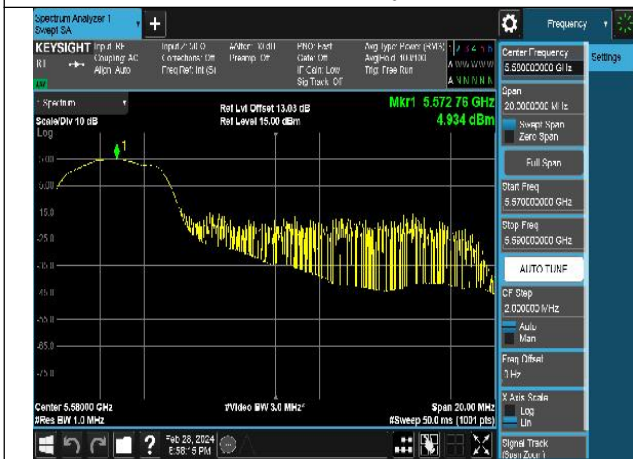
Mode:802.11ax HE20 Tone:26T Frequency:5500MHz
Ant:Chain1

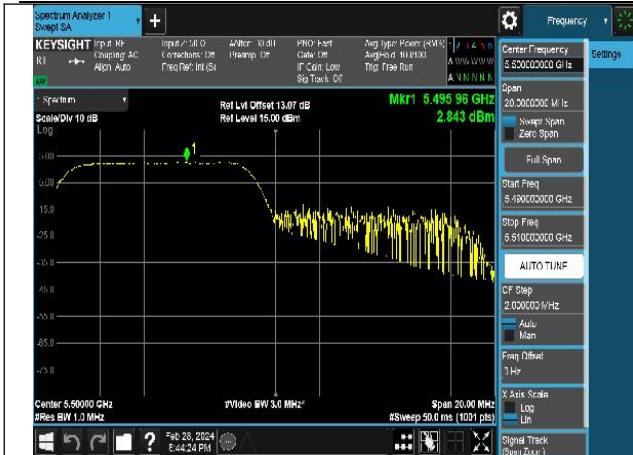


Mode:802.11ax HE20 Tone:26T Frequency:5580MHz
Ant:Chain1



Mode:802.11ax HE20 Tone:26T Frequency:5700MHz
Ant:Chain1





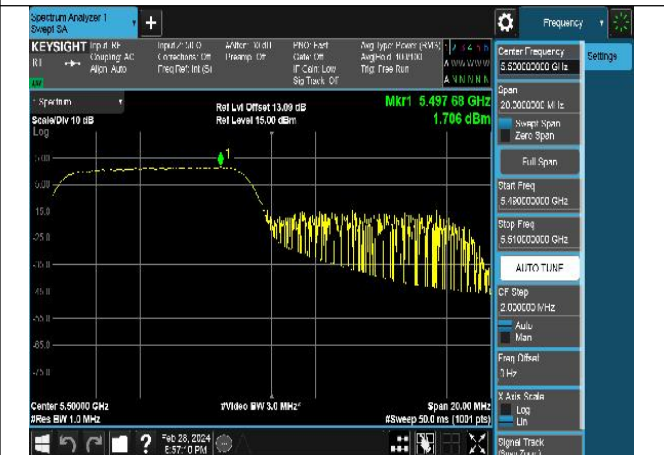
Mode:802.11ax HE20 Tone:106T Frequency:5500MHz
Ant:Chain0



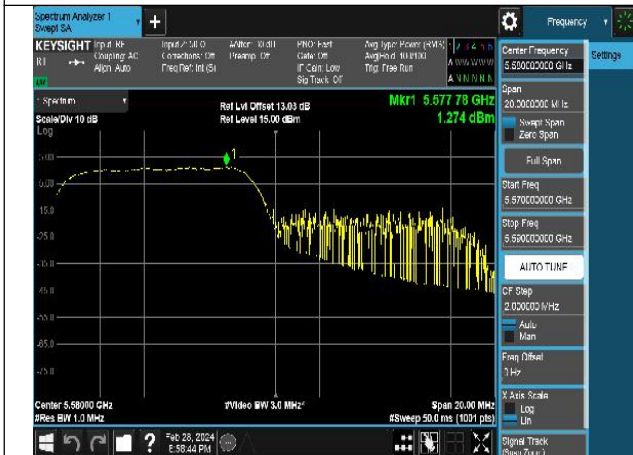
Mode:802.11ax HE20 Tone:106T Frequency:5580MHz
Ant:Chain0



Mode:802.11ax HE20 Tone:106T Frequency:5700MHz
Ant:Chain0



Mode:802.11ax HE20 Tone:106T Frequency:5500MHz
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5580MHz
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5700MHz
Ant:Chain1



Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5510MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5590MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5670MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5510MHz Ant:Chain1



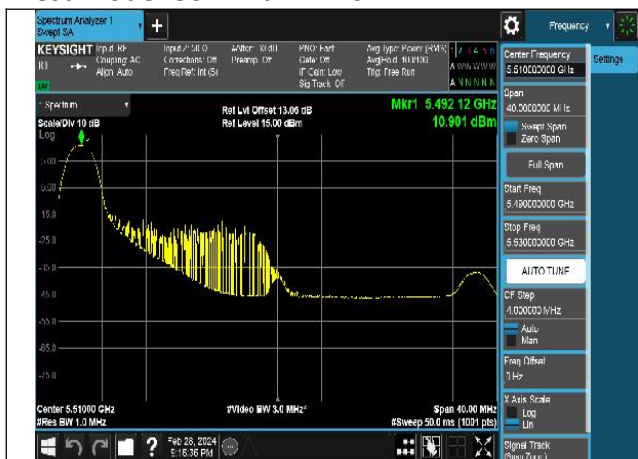
Mode:802.11n HT40 Frequency:5590MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5670MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Test Mode: 802.11ax HE40



Mode:802.11ax HE40 Tone:26T Frequency:5510MHz
Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:5590MHz
Ant:Chain0



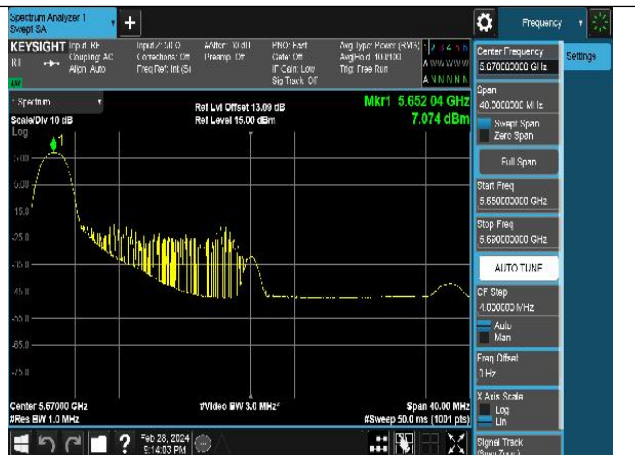
Mode:802.11ax HE40 Tone:26T Frequency:5670MHz
Ant:Chain0



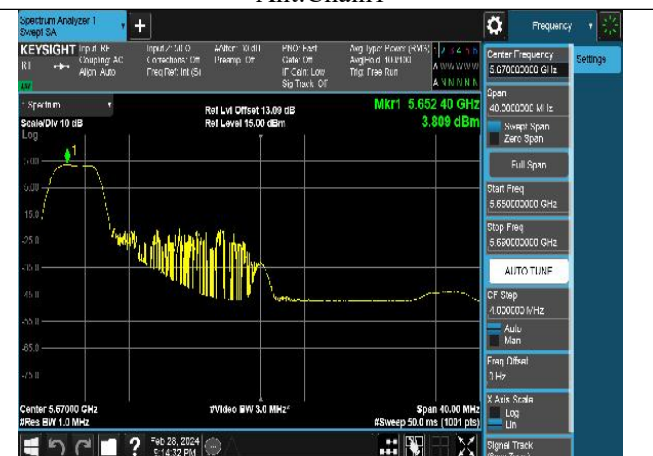
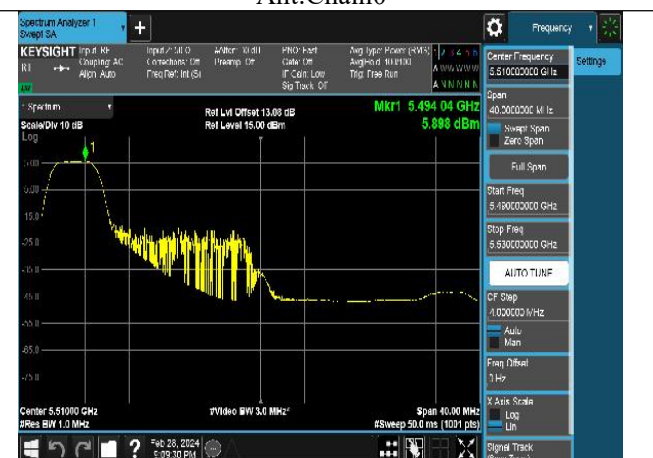
Mode:802.11ax HE40 Tone:26T Frequency:5510MHz
Ant:Chain1

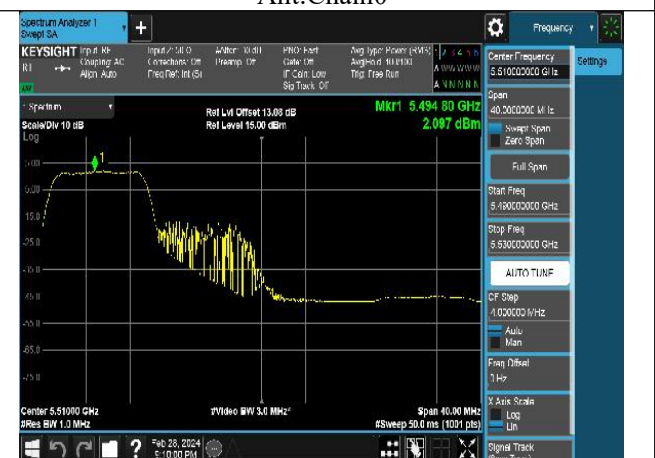
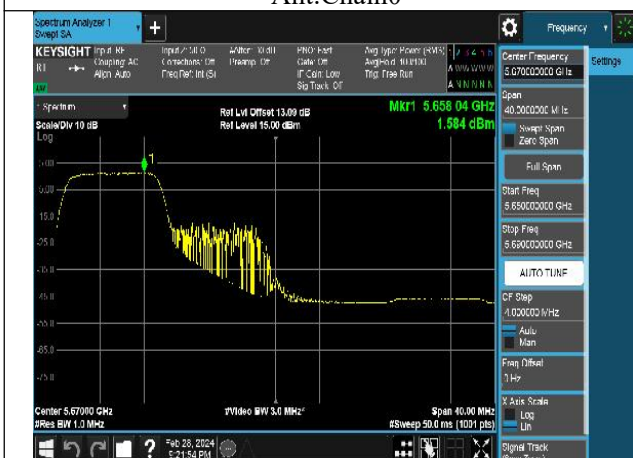


Mode:802.11ax HE40 Tone:26T Frequency:5590MHz
Ant:Chain1

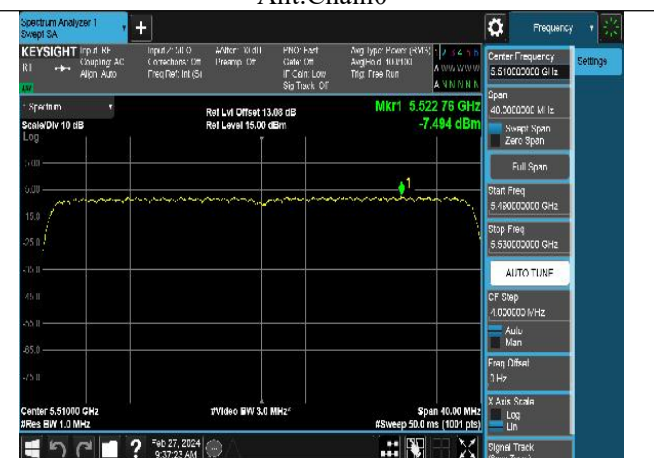


Mode:802.11ax HE40 Tone:26T Frequency:5670MHz
Ant:Chain1

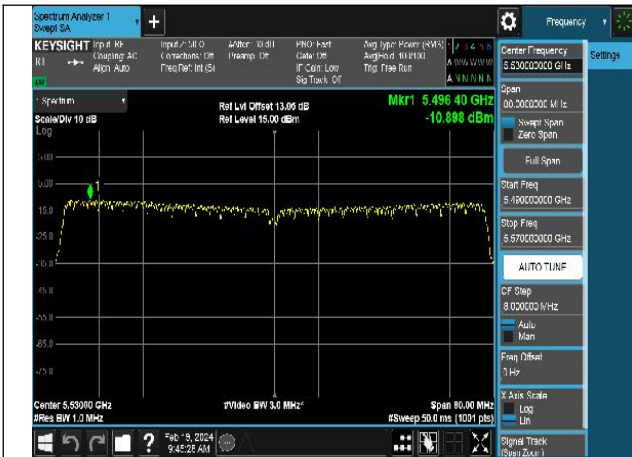








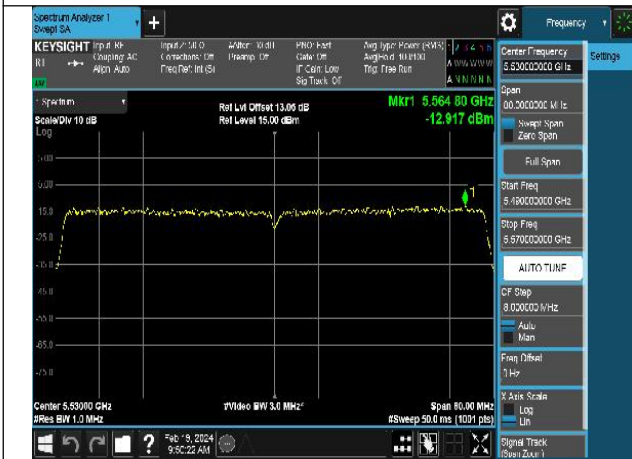
Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5530MHz
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5610MHz
Ant:Chain0

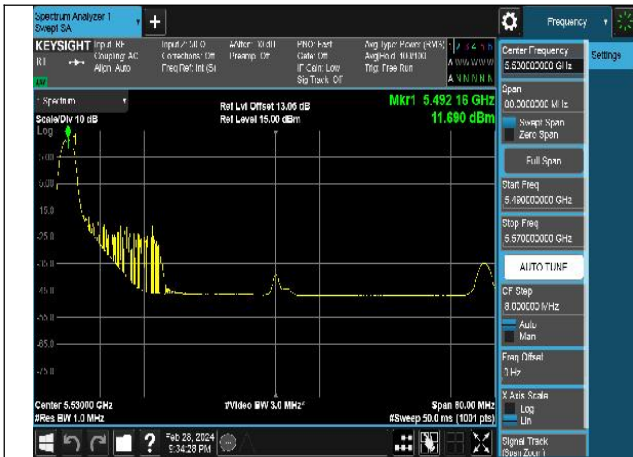


Mode:802.11ac VHT80 Frequency:5530MHz
Ant:Chain1

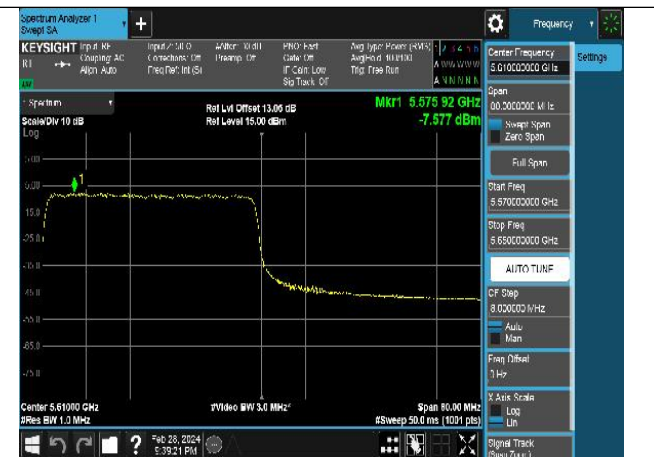
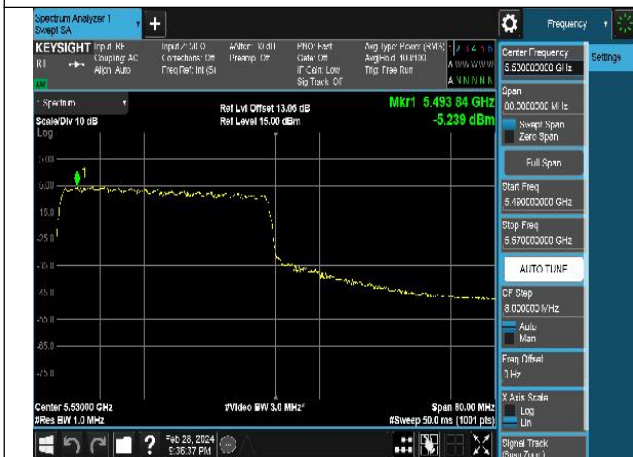


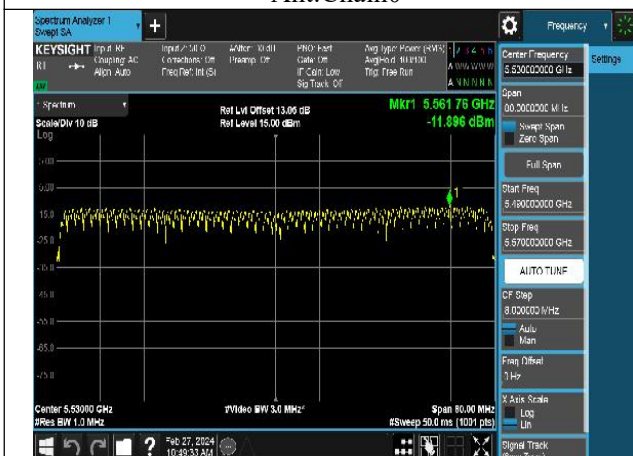
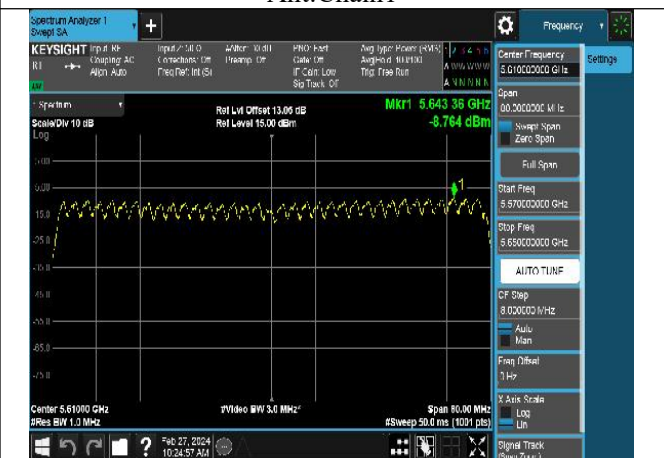
Mode:802.11ac VHT80 Frequency:5610MHz
Ant:Chain1

Test Mode: 802.11ax HE80









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Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5500	98.73%	0	Fig.1
802.11a	5500	98.69%	0	Fig.2
802.11n HT20	5500	98.66%	0	Fig.3
802.11n HT20	5500	98.56%	0	Fig.4
802.11ac VHT20	5500	98.70%	0	Fig.5
802.11ac VHT20	5500	98.58%	0	Fig.6
802.11n HT40	5510	98.39%	0	Fig.7
802.11n HT40	5510	98.41%	0	Fig.8
802.11ac VHT40	5510	98.34%	0	Fig.9
802.11ac VHT40	5510	98.34%	0	Fig.10
802.11ac VHT80	5530	98.20%	0	Fig.11
802.11ac VHT80	5530	98.14%	0	Fig.12

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

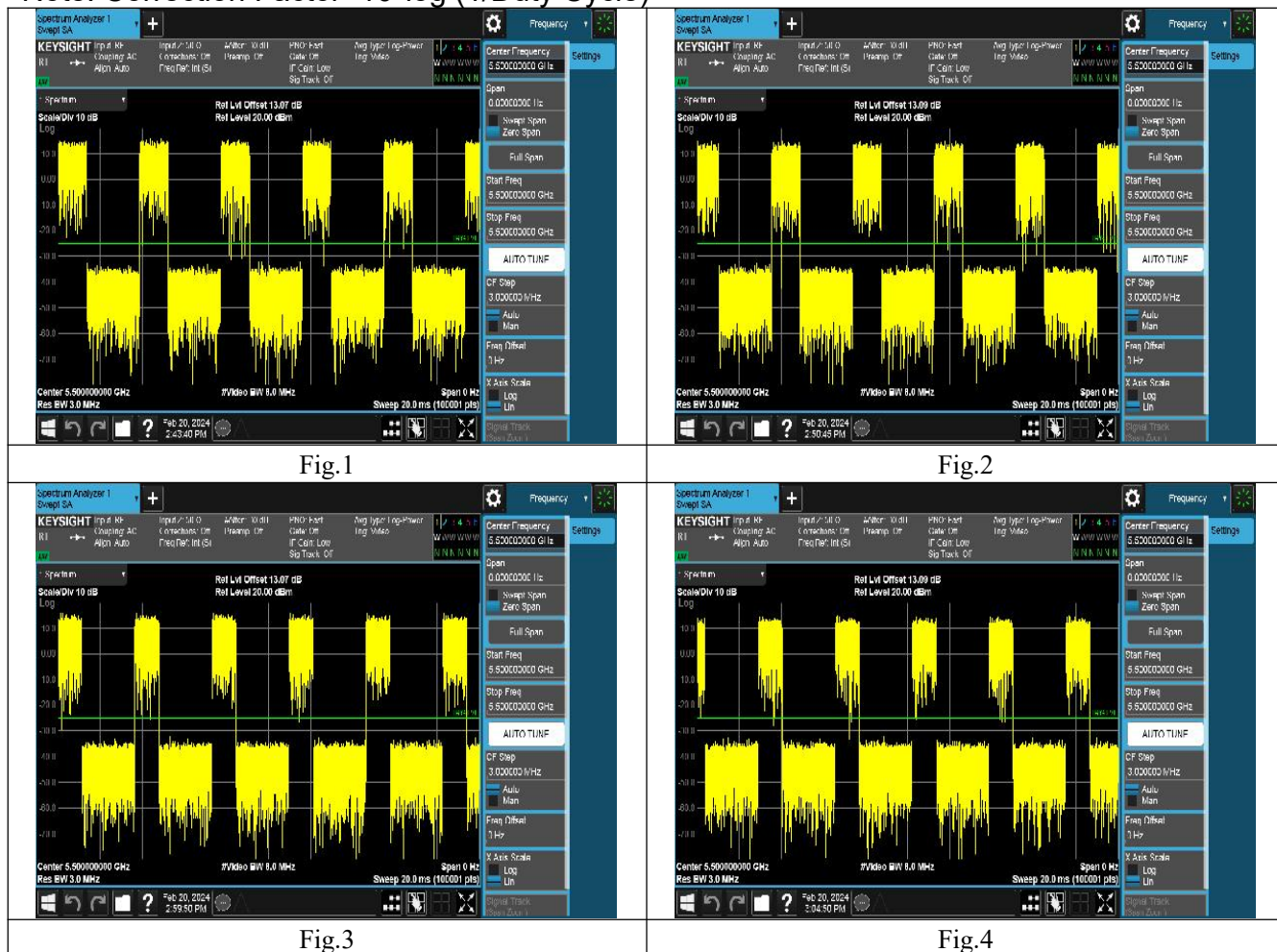




Fig.5



Fig.6



Fig.7

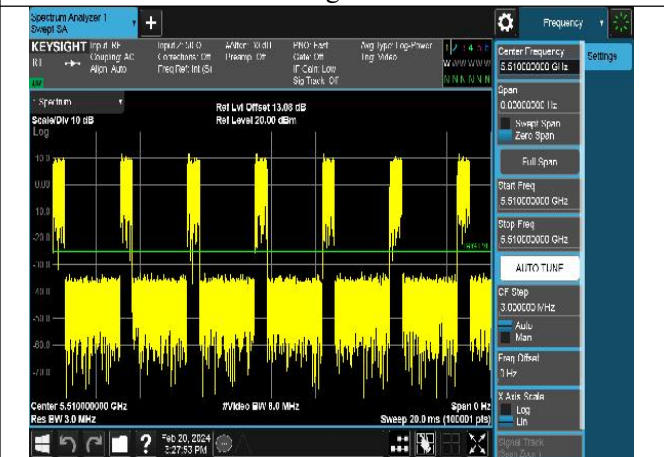


Fig.8



Fig.9

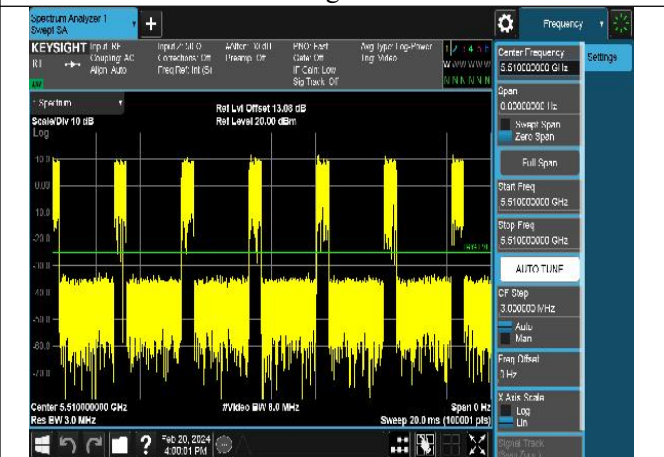


Fig.10



Fig.11



Fig.12

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5500	Chain0	10.36	9.76
802.11a	NA	5500	Chain1	8.98	9.68
802.11a	NA	5580	Chain0	11.14	10.54
802.11a	NA	5580	Chain1	8.55	9.25
802.11a	NA	5700	Chain0	8.85	8.25
802.11a	NA	5700	Chain1	7.19	7.89
802.11n HT20	NA	5500	Chain0	9.07	8.47
802.11n HT20	NA	5500	Chain1	8.09	8.79
802.11n HT20	NA	5500	MIMO	11.62	11.72
802.11n HT20	NA	5580	Chain0	10.00	9.40
802.11n HT20	NA	5580	Chain1	7.88	8.58
802.11n HT20	NA	5580	MIMO	12.08	12.18
802.11n HT20	NA	5700	Chain0	9.01	8.41
802.11n HT20	NA	5700	Chain1	6.14	6.84
802.11n HT20	NA	5700	MIMO	10.82	10.92
802.11ac VHT20	NA	5500	Chain0	9.74	9.14
802.11ac VHT20	NA	5500	Chain1	8.83	9.53
802.11ac VHT20	NA	5500	MIMO	12.32	12.42
802.11ac VHT20	NA	5580	Chain0	9.41	8.81
802.11ac VHT20	NA	5580	Chain1	7.59	8.29
802.11ac VHT20	NA	5580	MIMO	11.60	11.70
802.11ac VHT20	NA	5700	Chain0	8.31	7.71
802.11ac VHT20	NA	5700	Chain1	6.85	7.55
802.11ac VHT20	NA	5700	MIMO	10.65	10.75
802.11n HT40	NA	5510	Chain0	8.25	7.65
802.11n HT40	NA	5510	Chain1	5.71	6.41
802.11n HT40	NA	5510	MIMO	10.17	10.27
802.11n HT40	NA	5590	Chain0	7.28	6.68
802.11n HT40	NA	5590	Chain1	5.22	5.92
802.11n HT40	NA	5590	MIMO	9.38	9.48
802.11n HT40	NA	5670	Chain0	6.97	6.37
802.11n HT40	NA	5670	Chain1	4.99	5.69
802.11n HT40	NA	5670	MIMO	9.10	9.20
802.11ac VHT40	NA	5510	Chain0	8.24	7.64
802.11ac VHT40	NA	5510	Chain1	6.59	7.29
802.11ac VHT40	NA	5510	MIMO	10.50	10.60
802.11ac VHT40	NA	5590	Chain0	7.90	7.30
802.11ac VHT40	NA	5590	Chain1	6.20	6.90
802.11ac VHT40	NA	5590	MIMO	10.14	10.24
802.11ac VHT40	NA	5670	Chain0	6.65	6.05
802.11ac VHT40	NA	5670	Chain1	4.35	5.05
802.11ac VHT40	NA	5670	MIMO	8.66	8.76

802.11ac VHT80	NA	5530	Chain0	5.65	5.05
802.11ac VHT80	NA	5530	Chain1	3.90	4.60
802.11ac VHT80	NA	5530	MIMO	7.87	7.97
802.11ac VHT80	NA	5610	Chain0	4.63	4.03
802.11ac VHT80	NA	5610	Chain1	2.76	3.46
802.11ac VHT80	NA	5610	MIMO	6.81	6.91

Emission Bandwidth

Offset 1.2dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5500MHz	5580MHz	5700MHz
802.11a	Chain0	28.22	20.90	21.91
802.11a	Chain1	21.92	20.98	20.63
802.11n HT20	Chain0	21.89	21.76	22.35
802.11n HT20	Chain1	21.10	21.93	21.82
802.11ac VHT20	Chain0	24.59	24.01	23.61
802.11ac VHT20	Chain1	21.96	23.07	22.90

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5510MHz	5590MHz	5670MHz
802.11n HT40	Chain0	42.46	42.99	42.12
802.11n HT40	Chain1	42.07	42.46	42.14
802.11ac VHT40	Chain0	47.43	41.41	42.11
802.11ac VHT40	Chain1	42.91	42.17	42.73

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5530MHz	---	5610MHz
802.11ac VHT80	Chain0	76.93	---	74.17
802.11ac VHT80	Chain1	74.23	---	73.58

Test Mode: 802.11a

