

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5260	99.17%	0	Fig.1
802.11a	Chain1	5260	98.90%	0	Fig.2
802.11n HT20	Chain0	5260	99.62%	0	Fig.3
802.11n HT20	Chain1	5260	98.42%	0	Fig.4
802.11ac VHT20	Chain0	5260	96.76%	0.14	Fig.5
802.11ac VHT20	Chain1	5260	96.66%	0.15	Fig.6
802.11ax HE20	Chain0	5260	96.80%	0.14	Fig.7
802.11ax HE20	Chain1	5260	98.65%	0	Fig.8
802.11n HT40	Chain0	5270	97.39%	0.11	Fig.9
802.11n HT40	Chain1	5270	97.91%	0.09	Fig.10
802.11ac VHT40	Chain0	5270	99.23%	0	Fig.11
802.11ac VHT40	Chain1	5270	97.86%	0.09	Fig.12
802.11ax HE40	Chain0	5270	99.58%	0	Fig.13
802.11ax HE40	Chain1	5270	99.51%	0	Fig.14
802.11ac VHT80	Chain0	5290	97.02%	0.13	Fig.15
802.11ac VHT80	Chain1	5290	98.18%	0	Fig.16
802.11ax HE80	Chain0	5290	95.56%	0.20	Fig.17
802.11ax HE80	Chain1	5290	97.98%	0.09	Fig.18

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

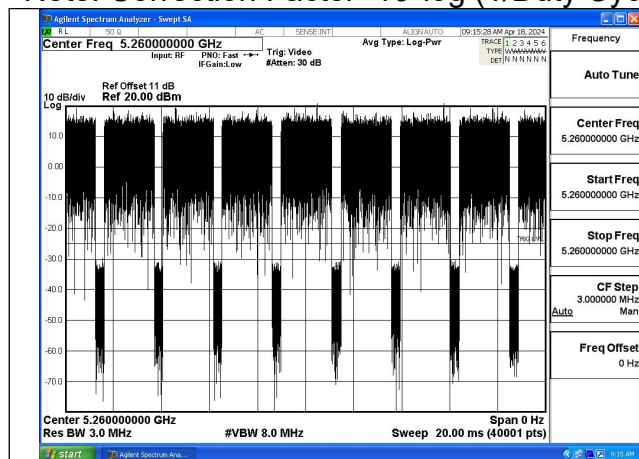


Fig.1

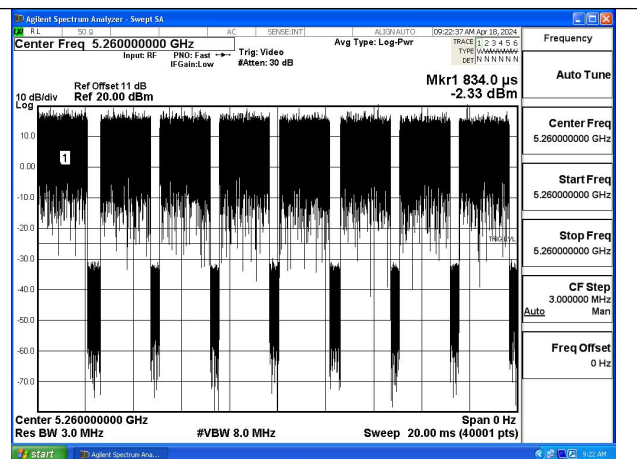


Fig.2

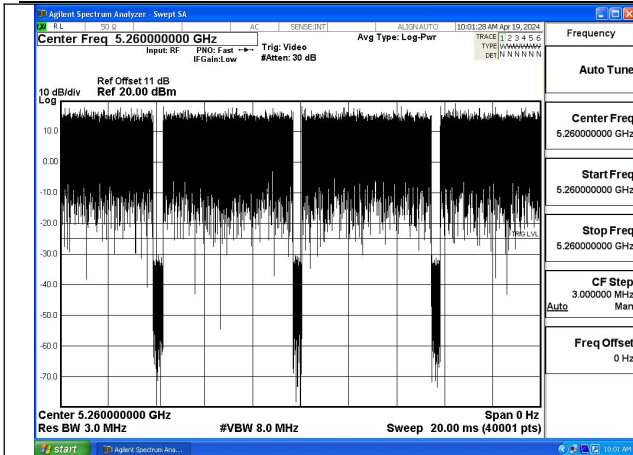


Fig.3

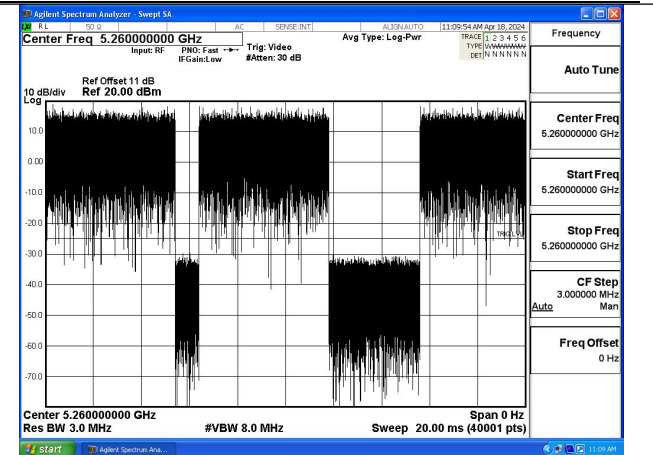


Fig.4

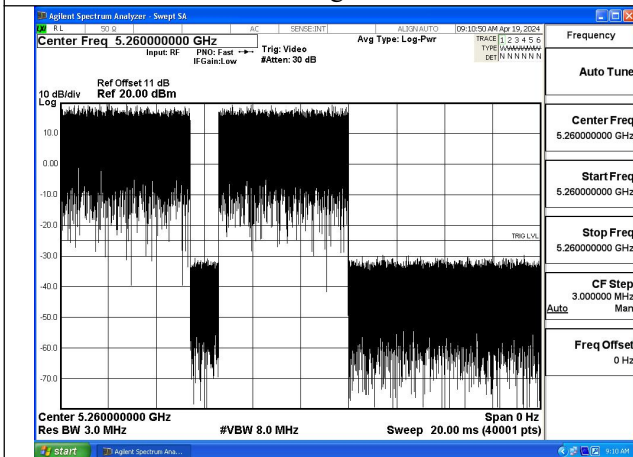


Fig.5

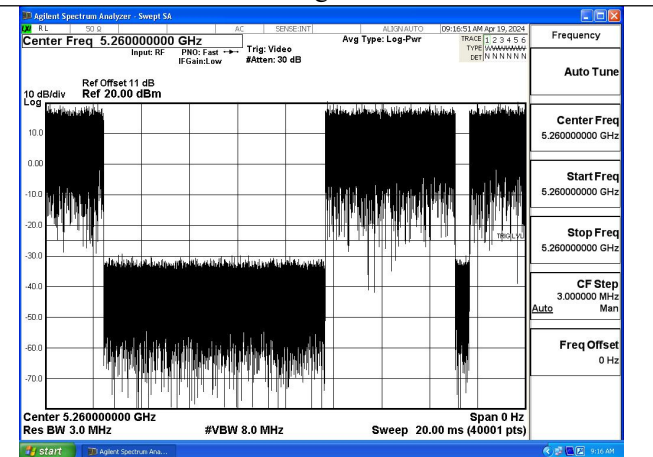


Fig.6

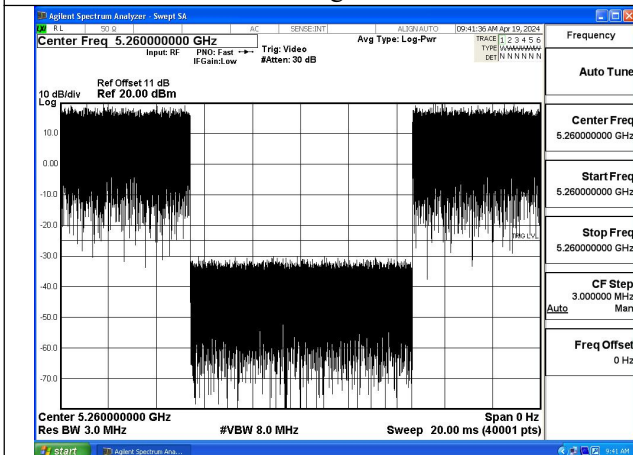


Fig.7

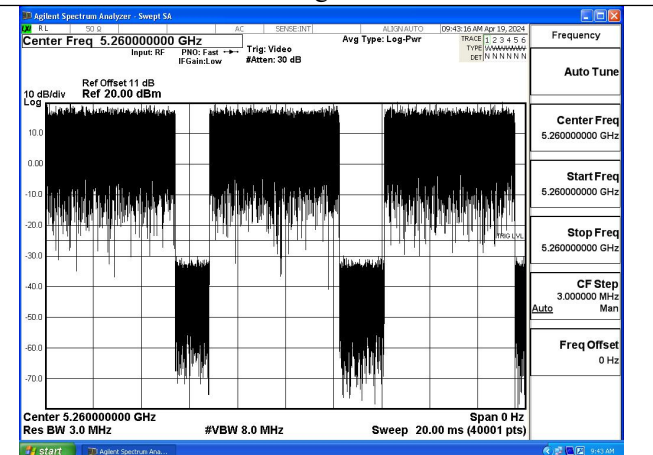


Fig.8

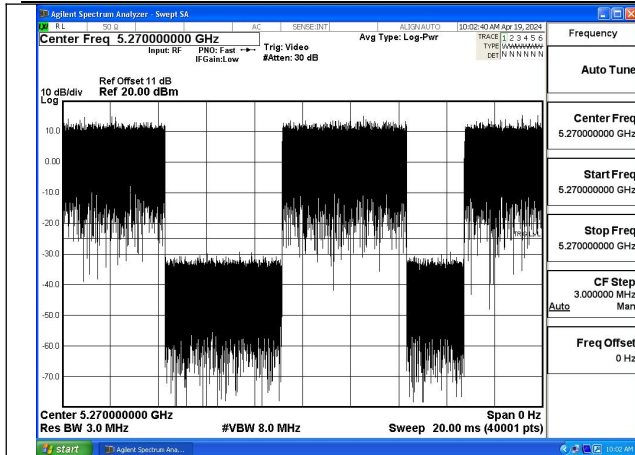


Fig.9

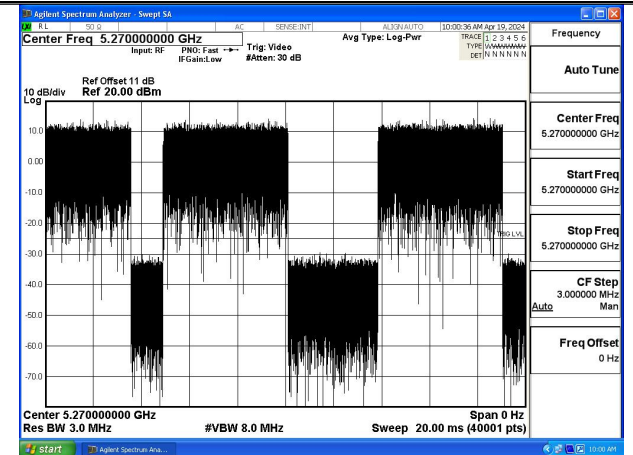


Fig.10

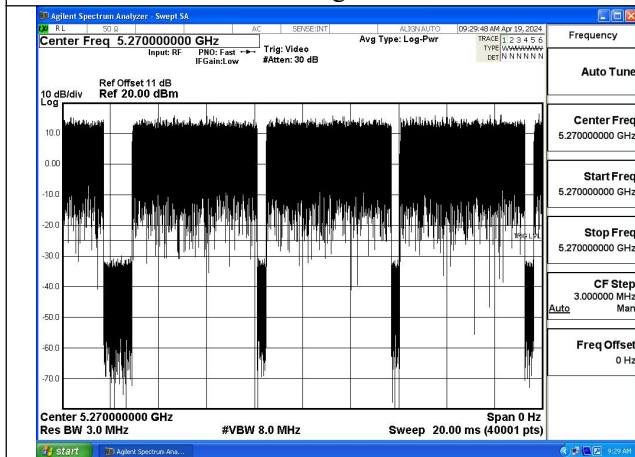


Fig.11

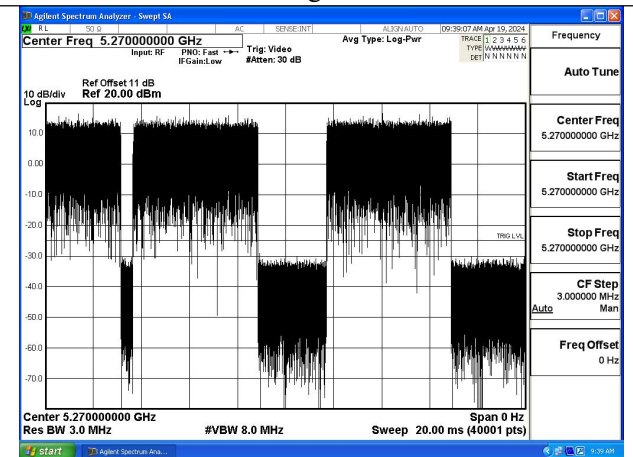


Fig.12

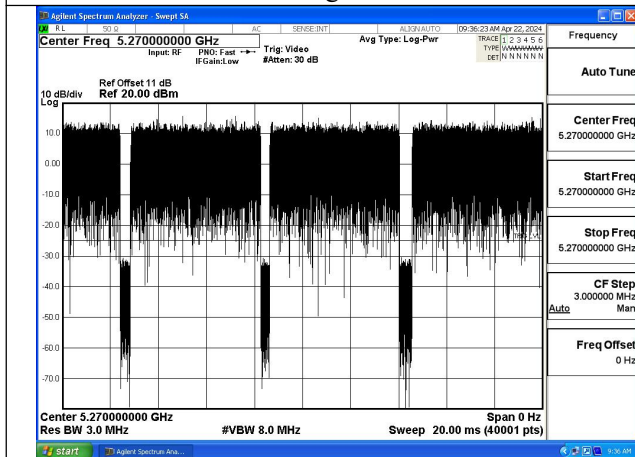


Fig.13

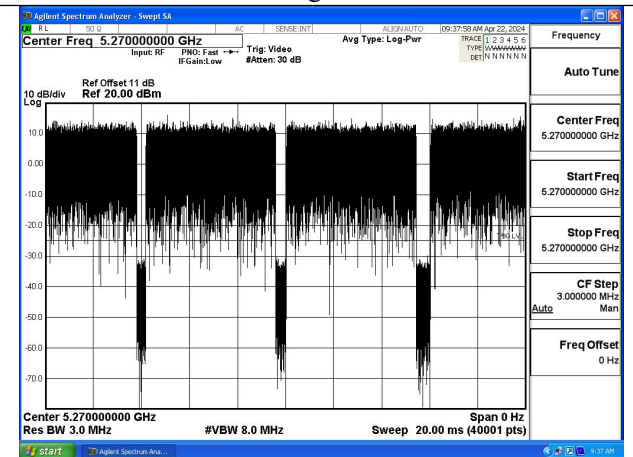


Fig.14

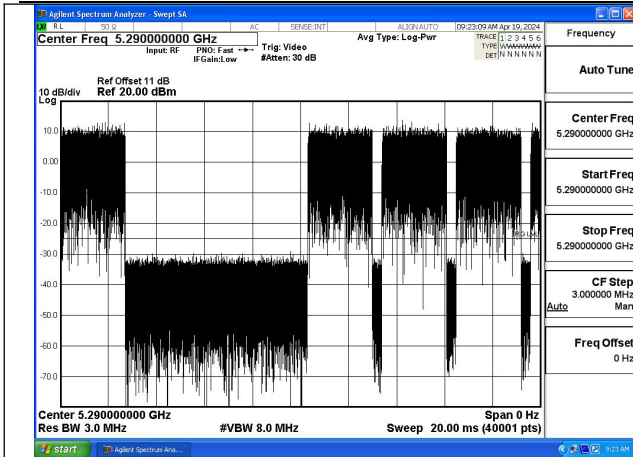


Fig.15

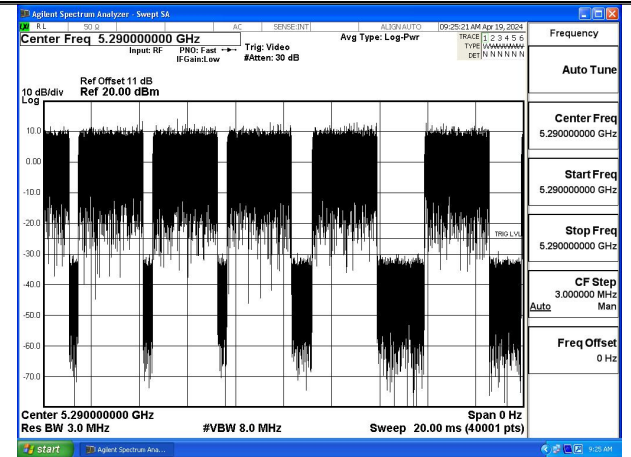


Fig.16

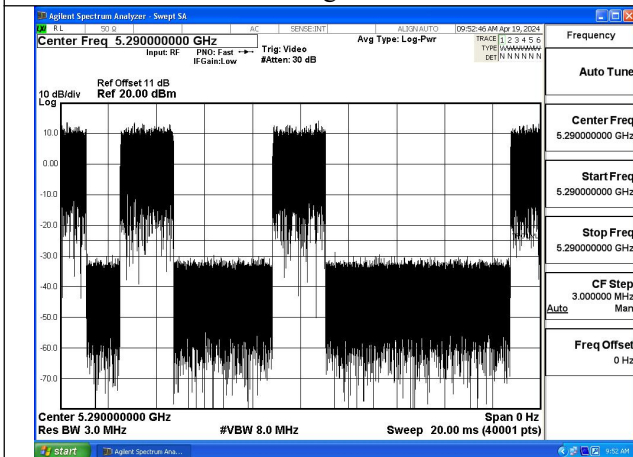


Fig.17

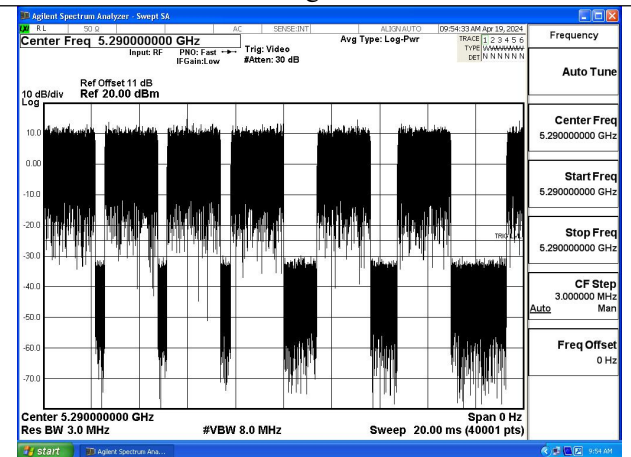


Fig.18

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	14.67	19.16
802.11a	NA	5260	Chain1	14.72	19.21
802.11a	NA	5280	Chain0	14.55	19.04
802.11a	NA	5280	Chain1	14.58	19.07
802.11a	NA	5320	Chain0	15.05	19.54
802.11a	NA	5320	Chain1	14.92	19.41
802.11n HT20	NA	5260	Chain0	13.77	18.26
802.11n HT20	NA	5260	Chain1	13.35	17.84
802.11n HT20	NA	5260	MIMO	16.58	21.07
802.11n HT20	NA	5280	Chain0	13.58	18.07
802.11n HT20	NA	5280	Chain1	13.55	18.04
802.11n HT20	NA	5280	MIMO	16.58	21.07
802.11n HT20	NA	5320	Chain0	14.09	18.58
802.11n HT20	NA	5320	Chain1	13.87	18.36
802.11n HT20	NA	5320	MIMO	16.99	21.48
802.11ac VHT20	NA	5260	Chain0	15.85	20.34
802.11ac VHT20	NA	5260	Chain1	15.86	20.35
802.11ac VHT20	NA	5260	MIMO	18.87	23.36
802.11ac VHT20	NA	5280	Chain0	14.97	19.46
802.11ac VHT20	NA	5280	Chain1	15.54	20.03
802.11ac VHT20	NA	5280	MIMO	18.27	22.76
802.11ac VHT20	NA	5320	Chain0	15.52	20.01
802.11ac VHT20	NA	5320	Chain1	15.72	20.21
802.11ac VHT20	NA	5320	MIMO	18.63	23.12
802.11n HT40	NA	5270	Chain0	13.62	18.11
802.11n HT40	NA	5270	Chain1	13.54	18.03
802.11n HT40	NA	5270	MIMO	16.59	21.08
802.11n HT40	NA	5310	Chain0	14.45	18.94
802.11n HT40	NA	5310	Chain1	13.96	18.45
802.11n HT40	NA	5310	MIMO	17.22	21.71
802.11ac VHT40	NA	5270	Chain0	15.80	20.29
802.11ac VHT40	NA	5270	Chain1	15.52	20.01
802.11ac VHT40	NA	5270	MIMO	18.67	23.16
802.11ac VHT40	NA	5310	Chain0	15.49	19.98
802.11ac VHT40	NA	5310	Chain1	15.36	19.85
802.11ac VHT40	NA	5310	MIMO	18.44	22.93
802.11ac VHT80	NA	5290	Chain0	14.18	18.67
802.11ac VHT80	NA	5290	Chain1	14.40	18.89
802.11ac VHT80	NA	5290	MIMO	17.30	21.79

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average	EIRP (dBm)
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				power output(dBm)	
802.11ax HE20	26T 0	5260	Chain0	10.47	14.96
802.11ax HE20	26T 0	5260	Chain1	10.41	14.90
802.11ax HE20	26T 0	5260	MIMO	13.45	17.94
802.11ax HE20	26T 0	5280	Chain0	10.30	14.79
802.11ax HE20	26T 0	5280	Chain1	10.38	14.87
802.11ax HE20	26T 0	5280	MIMO	13.35	17.84
802.11ax HE20	26T 0	5320	Chain0	11.08	15.57
802.11ax HE20	26T 0	5320	Chain1	10.91	15.40
802.11ax HE20	26T 0	5320	MIMO	14.01	18.50
802.11ax HE20	26T 4	5260	Chain0	10.51	15.00
802.11ax HE20	26T 4	5260	Chain1	10.47	14.96
802.11ax HE20	26T 4	5260	MIMO	13.50	17.99
802.11ax HE20	26T 4	5280	Chain0	10.28	14.77
802.11ax HE20	26T 4	5280	Chain1	10.30	14.79
802.11ax HE20	26T 4	5280	MIMO	13.30	17.79
802.11ax HE20	26T 4	5320	Chain0	10.98	15.47
802.11ax HE20	26T 4	5320	Chain1	11.11	15.60
802.11ax HE20	26T 4	5320	MIMO	14.06	18.55
802.11ax HE20	26T 8	5260	Chain0	10.53	15.02
802.11ax HE20	26T 8	5260	Chain1	10.46	14.95
802.11ax HE20	26T 8	5260	MIMO	13.51	18.00
802.11ax HE20	26T 8	5280	Chain0	10.38	14.87
802.11ax HE20	26T 8	5280	Chain1	10.33	14.82
802.11ax HE20	26T 8	5280	MIMO	13.37	17.86
802.11ax HE20	26T 8	5320	Chain0	10.98	15.47
802.11ax HE20	26T 8	5320	Chain1	11.06	15.55
802.11ax HE20	26T 8	5320	MIMO	14.03	18.52
802.11ax HE20	52T 37	5260	Chain0	10.23	14.72
802.11ax HE20	52T 37	5260	Chain1	10.21	14.70
802.11ax HE20	52T 37	5260	MIMO	13.23	17.72
802.11ax HE20	52T 37	5280	Chain0	10.23	14.72
802.11ax HE20	52T 37	5280	Chain1	10.25	14.74
802.11ax HE20	52T 37	5280	MIMO	13.25	17.74
802.11ax HE20	52T 37	5320	Chain0	10.80	15.29
802.11ax HE20	52T 37	5320	Chain1	10.88	15.37
802.11ax HE20	52T 37	5320	MIMO	13.85	18.34
802.11ax HE20	52T 39	5260	Chain0	10.34	14.83
802.11ax HE20	52T 39	5260	Chain1	10.41	14.90
802.11ax HE20	52T 39	5260	MIMO	13.39	17.88
802.11ax HE20	52T 39	5280	Chain0	10.23	14.72
802.11ax HE20	52T 39	5280	Chain1	10.28	14.77
802.11ax HE20	52T 39	5280	MIMO	13.27	17.76
802.11ax HE20	52T 39	5320	Chain0	10.78	15.27
802.11ax HE20	52T 39	5320	Chain1	10.87	15.36

802.11ax HE20	52T 39	5320	MIMO	13.84	18.33
802.11ax HE20	52T 40	5260	Chain0	10.23	14.72
802.11ax HE20	52T 40	5260	Chain1	10.30	14.79
802.11ax HE20	52T 40	5260	MIMO	13.28	17.77
802.11ax HE20	52T 40	5280	Chain0	10.30	14.79
802.11ax HE20	52T 40	5280	Chain1	10.24	14.73
802.11ax HE20	52T 40	5280	MIMO	13.28	17.77
802.11ax HE20	52T 40	5320	Chain0	10.82	15.31
802.11ax HE20	52T 40	5320	Chain1	10.90	15.39
802.11ax HE20	52T 40	5320	MIMO	13.87	18.36
802.11ax HE20	106T 53	5260	Chain0	10.26	14.75
802.11ax HE20	106T 53	5260	Chain1	10.29	14.78
802.11ax HE20	106T 53	5260	MIMO	13.29	17.78
802.11ax HE20	106T 53	5280	Chain0	10.26	14.75
802.11ax HE20	106T 53	5280	Chain1	10.24	14.73
802.11ax HE20	106T 53	5280	MIMO	13.26	17.75
802.11ax HE20	106T 53	5320	Chain0	10.93	15.42
802.11ax HE20	106T 53	5320	Chain1	10.82	15.31
802.11ax HE20	106T 53	5320	MIMO	13.89	18.38
802.11ax HE20	106T 54	5260	Chain0	10.28	14.77
802.11ax HE20	106T 54	5260	Chain1	10.26	14.75
802.11ax HE20	106T 54	5260	MIMO	13.28	17.77
802.11ax HE20	106T 54	5280	Chain0	10.22	14.71
802.11ax HE20	106T 54	5280	Chain1	10.26	14.75
802.11ax HE20	106T 54	5280	MIMO	13.25	17.74
802.11ax HE20	106T 54	5320	Chain0	10.89	15.38
802.11ax HE20	106T 54	5320	Chain1	10.88	15.37
802.11ax HE20	106T 54	5320	MIMO	13.90	18.39
802.11ax HE20	242T 61	5260	Chain0	14.35	18.84
802.11ax HE20	242T 61	5260	Chain1	14.54	19.03
802.11ax HE20	242T 61	5260	MIMO	17.46	21.95
802.11ax HE20	242T 61	5280	Chain0	14.30	18.79
802.11ax HE20	242T 61	5280	Chain1	14.41	18.90
802.11ax HE20	242T 61	5280	MIMO	17.37	21.86
802.11ax HE20	242T 61	5320	Chain0	14.90	19.39
802.11ax HE20	242T 61	5320	Chain1	14.89	19.38
802.11ax HE20	242T 61	5320	MIMO	17.91	22.40
802.11ax HE40	26T 0	5270	Chain0	9.73	14.22
802.11ax HE40	26T 0	5270	Chain1	9.84	14.33
802.11ax HE40	26T 0	5270	MIMO	12.80	17.29
802.11ax HE40	26T 0	5310	Chain0	10.53	15.02
802.11ax HE40	26T 0	5310	Chain1	10.51	15.00
802.11ax HE40	26T 0	5310	MIMO	13.53	18.02
802.11ax HE40	26T 10	5270	Chain0	9.74	14.23
802.11ax HE40	26T 10	5270	Chain1	9.80	14.29
802.11ax HE40	26T 10	5270	MIMO	12.78	17.27

802.11ax HE40	26T 10	5310	Chain0	10.50	14.99
802.11ax HE40	26T 10	5310	Chain1	10.53	15.02
802.11ax HE40	26T 10	5310	MIMO	13.53	18.02
802.11ax HE40	26T 17	5270	Chain0	10.06	14.55
802.11ax HE40	26T 17	5270	Chain1	9.80	14.29
802.11ax HE40	26T 17	5270	MIMO	12.94	17.43
802.11ax HE40	26T 17	5310	Chain0	10.42	14.91
802.11ax HE40	26T 17	5310	Chain1	10.53	15.02
802.11ax HE40	26T 17	5310	MIMO	13.49	17.98
802.11ax HE40	52T 37	5270	Chain0	9.92	14.41
802.11ax HE40	52T 37	5270	Chain1	9.89	14.38
802.11ax HE40	52T 37	5270	MIMO	12.92	17.41
802.11ax HE40	52T 37	5310	Chain0	10.50	14.99
802.11ax HE40	52T 37	5310	Chain1	10.48	14.97
802.11ax HE40	52T 37	5310	MIMO	13.50	17.99
802.11ax HE40	52T 41	5270	Chain0	9.97	14.46
802.11ax HE40	52T 41	5270	Chain1	9.87	14.36
802.11ax HE40	52T 41	5270	MIMO	12.93	17.42
802.11ax HE40	52T 41	5310	Chain0	10.51	15.00
802.11ax HE40	52T 41	5310	Chain1	10.43	14.92
802.11ax HE40	52T 41	5310	MIMO	13.48	17.97
802.11ax HE40	52T 44	5270	Chain0	9.90	14.39
802.11ax HE40	52T 44	5270	Chain1	9.84	14.33
802.11ax HE40	52T 44	5270	MIMO	12.88	17.37
802.11ax HE40	52T 44	5310	Chain0	10.56	15.05
802.11ax HE40	52T 44	5310	Chain1	10.52	15.01
802.11ax HE40	52T 44	5310	MIMO	13.55	18.04
802.11ax HE40	106T 53	5270	Chain0	9.87	14.36
802.11ax HE40	106T 53	5270	Chain1	9.82	14.31
802.11ax HE40	106T 53	5270	MIMO	12.86	17.35
802.11ax HE40	106T 53	5310	Chain0	10.45	14.94
802.11ax HE40	106T 53	5310	Chain1	10.43	14.92
802.11ax HE40	106T 53	5310	MIMO	13.45	17.94
802.11ax HE40	106T 55	5270	Chain0	9.79	14.28
802.11ax HE40	106T 55	5270	Chain1	9.75	14.24
802.11ax HE40	106T 55	5270	MIMO	12.78	17.27
802.11ax HE40	106T 55	5310	Chain0	10.42	14.91
802.11ax HE40	106T 55	5310	Chain1	10.52	15.01
802.11ax HE40	106T 55	5310	MIMO	13.48	17.97
802.11ax HE40	106T 56	5270	Chain0	9.75	14.24
802.11ax HE40	106T 56	5270	Chain1	9.81	14.30
802.11ax HE40	106T 56	5270	MIMO	12.79	17.28
802.11ax HE40	106T 56	5310	Chain0	10.42	14.91
802.11ax HE40	106T 56	5310	Chain1	10.45	14.94
802.11ax HE40	106T 56	5310	MIMO	13.45	17.94
802.11ax HE40	242T 61	5270	Chain0	9.59	14.08

802.11ax HE40	242T 61	5270	Chain1	9.64	14.13
802.11ax HE40	242T 61	5270	MIMO	12.63	17.12
802.11ax HE40	242T 61	5310	Chain0	10.24	14.73
802.11ax HE40	242T 61	5310	Chain1	10.30	14.79
802.11ax HE40	242T 61	5310	MIMO	13.28	17.77
802.11ax HE40	242T 62	5270	Chain0	9.68	14.17
802.11ax HE40	242T 62	5270	Chain1	9.64	14.13
802.11ax HE40	242T 62	5270	MIMO	12.67	17.16
802.11ax HE40	242T 62	5310	Chain0	10.25	14.74
802.11ax HE40	242T 62	5310	Chain1	10.29	14.78
802.11ax HE40	242T 62	5310	MIMO	13.28	17.77
802.11ax HE40	484T 65	5270	Chain0	9.75	14.24
802.11ax HE40	484T 65	5270	Chain1	9.76	14.25
802.11ax HE40	484T 65	5270	MIMO	12.77	17.26
802.11ax HE40	484T 65	5310	Chain0	10.38	14.87
802.11ax HE40	484T 65	5310	Chain1	10.38	14.87
802.11ax HE40	484T 65	5310	MIMO	13.39	17.88
802.11ax HE80	26T 0	5290	Chain0	10.27	14.76
802.11ax HE80	26T 0	5290	Chain1	10.19	14.68
802.11ax HE80	26T 0	5290	MIMO	13.24	17.73
802.11ax HE80	26T 18	5290	Chain0	10.44	14.93
802.11ax HE80	26T 18	5290	Chain1	10.12	14.61
802.11ax HE80	26T 18	5290	MIMO	13.29	17.78
802.11ax HE80	26T 36	5290	Chain0	10.35	14.84
802.11ax HE80	26T 36	5290	Chain1	10.38	14.87
802.11ax HE80	26T 36	5290	MIMO	13.38	17.87
802.11ax HE80	52T 37	5290	Chain0	10.19	14.68
802.11ax HE80	52T 37	5290	Chain1	10.34	14.83
802.11ax HE80	52T 37	5290	MIMO	13.28	17.77
802.11ax HE80	52T 45	5290	Chain0	10.30	14.79
802.11ax HE80	52T 45	5290	Chain1	10.32	14.81
802.11ax HE80	52T 45	5290	MIMO	13.32	17.81
802.11ax HE80	52T 52	5290	Chain0	10.37	14.86
802.11ax HE80	52T 52	5290	Chain1	10.16	14.65
802.11ax HE80	52T 52	5290	MIMO	13.28	17.77
802.11ax HE80	106T 53	5290	Chain0	10.13	14.62
802.11ax HE80	106T 53	5290	Chain1	10.14	14.63
802.11ax HE80	106T 53	5290	MIMO	13.15	17.64
802.11ax HE80	106T 57	5290	Chain0	10.19	14.68
802.11ax HE80	106T 57	5290	Chain1	10.13	14.62
802.11ax HE80	106T 57	5290	MIMO	13.17	17.66
802.11ax HE80	106T 60	5290	Chain0	10.15	14.64
802.11ax HE80	106T 60	5290	Chain1	10.18	14.67
802.11ax HE80	106T 60	5290	MIMO	13.18	17.67
802.11ax HE80	242T 61	5290	Chain0	10.06	14.55
802.11ax HE80	242T 61	5290	Chain1	10.15	14.64

802.11ax HE80	242T 61	5290	MIMO	13.12	17.61
802.11ax HE80	242T 63	5290	Chain0	10.20	14.69
802.11ax HE80	242T 63	5290	Chain1	10.11	14.60
802.11ax HE80	242T 63	5290	MIMO	13.17	17.66
802.11ax HE80	242T 64	5290	Chain0	10.19	14.68
802.11ax HE80	242T 64	5290	Chain1	10.17	14.66
802.11ax HE80	242T 64	5290	MIMO	13.19	17.68
802.11ax HE80	484T 65	5290	Chain0	10.05	14.54
802.11ax HE80	484T 65	5290	Chain1	9.95	14.44
802.11ax HE80	484T 65	5290	MIMO	13.01	17.50
802.11ax HE80	484T 66	5290	Chain0	10.11	14.60
802.11ax HE80	484T 66	5290	Chain1	10.04	14.53
802.11ax HE80	484T 66	5290	MIMO	13.09	17.58
802.11ax HE80	996T 67	5290	Chain0	14.56	19.05
802.11ax HE80	996T 67	5290	Chain1	14.59	19.08
802.11ax HE80	996T 67	5290	MIMO	17.59	22.08

Emission Bandwidth

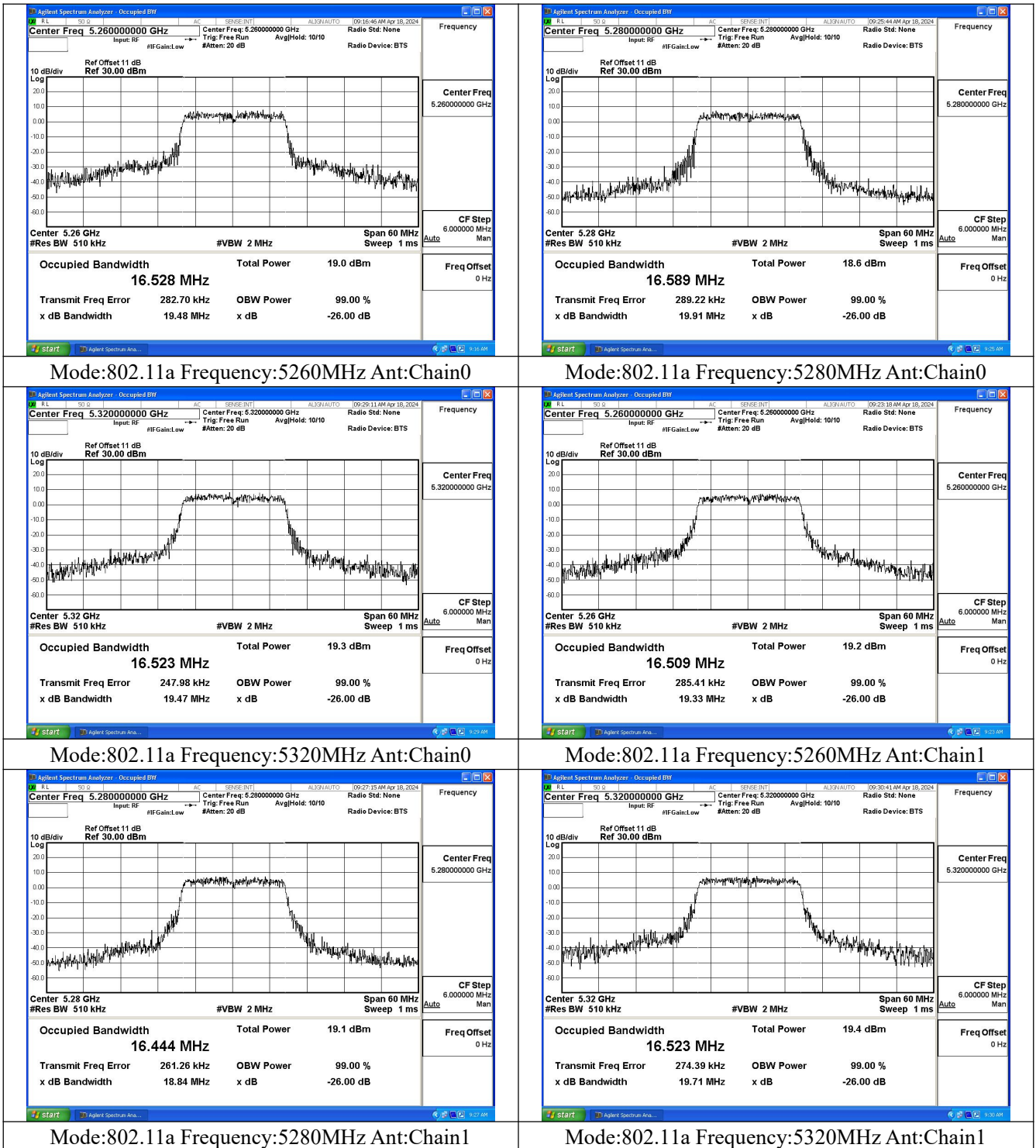
Offset 11dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	19.48	19.91	19.47
802.11a	Chain1	19.33	18.84	19.71
802.11n HT20	Chain0	20.42	19.76	20.16
802.11n HT20	Chain1	20.65	20.50	20.20
802.11ac VHT20	Chain0	20.72	20.45	20.49
802.11ac VHT20	Chain1	20.34	20.20	20.38
802.11ax HE20	Chain0	21.76	22.49	21.00
802.11ax HE20	Chain1	24.81	20.62	22.11

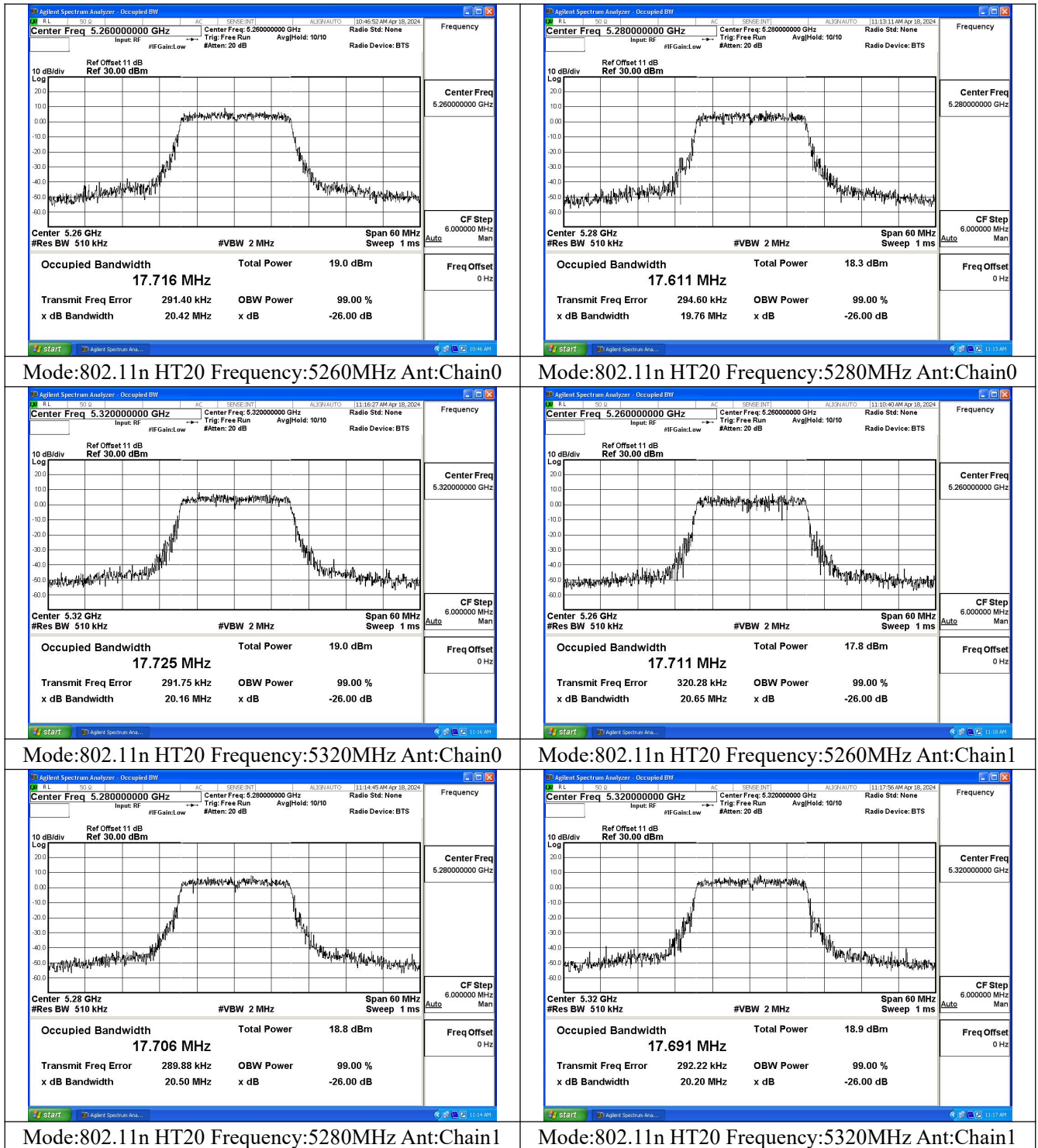
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	39.41	---	39.28
802.11n HT40	Chain1	39.72	---	38.77
802.11ac VHT40	Chain0	39.24	---	39.47
802.11ac VHT40	Chain1	39.58	---	39.99
802.11ax HE40	Chain0	40.53	---	40.60
802.11ax HE40	Chain1	40.64	---	41.00

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	82.54	---	---
802.11ac VHT80	Chain1	83.71	---	---
802.11ax HE80	Chain0	82.37	---	---
802.11ax HE80	Chain1	82.14	---	---

Test Mode: 802.11a



Test Mode: 802.11n HT20



Test Mode: 802.11ac VHT20

