



99% Occupied Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11a (6Mbps)
CH149

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



CH157

CH157



CH165

CH165





99% Occupied Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155



CH159





99% Occupied Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Non-Beamforming, ANT E
Modulation Type: 802.11a (6Mbps)
CH149

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



CH157

CH157



CH165

CH165





99% Occupied Bandwidth
Non-Beamforming, ANT E
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155



CH159





99% Occupied Bandwidth
Non-Beamforming, ANT E
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165



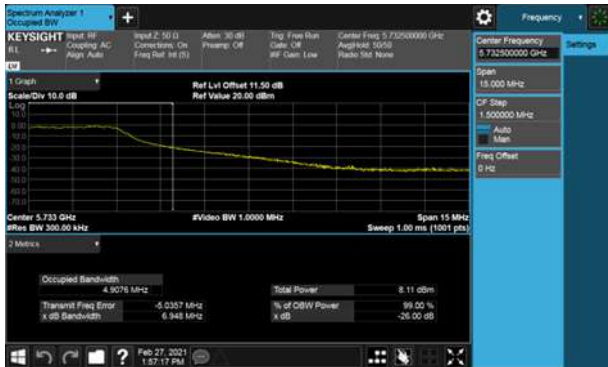


99% Occupied Bandwidth
Non-Beamforming, ANT E
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Non-Beamforming, ANT A
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144



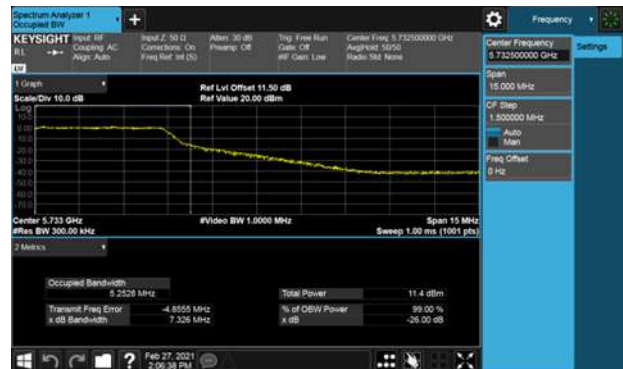
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

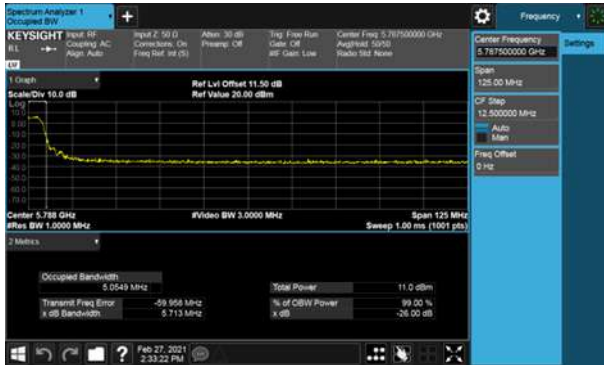


Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142





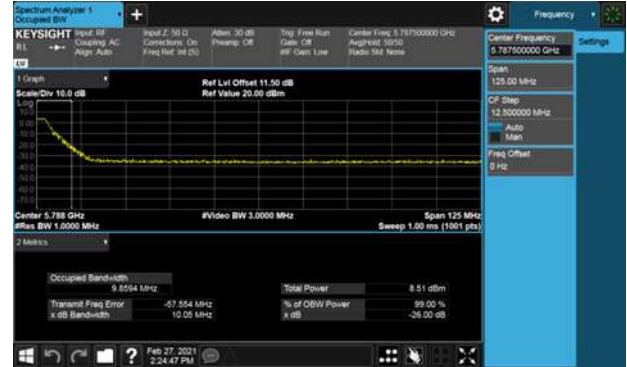
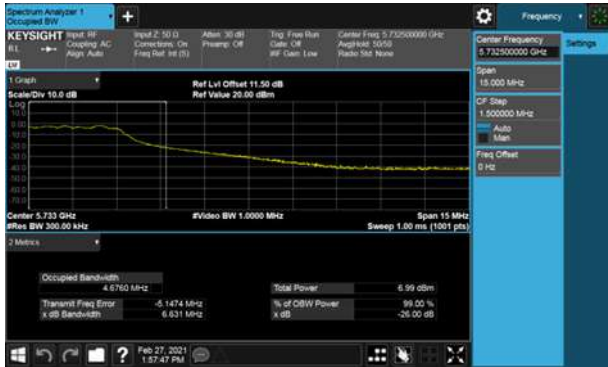
99% Occupied Bandwidth
Non-Beamforming, ANT A
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138





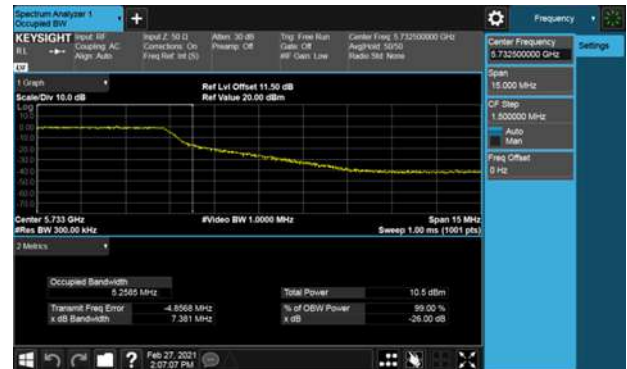
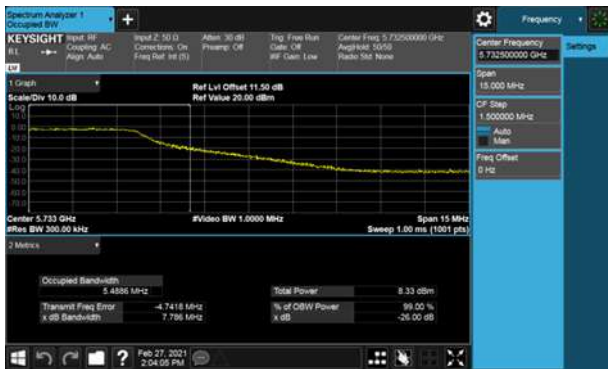
99% Occupied Bandwidth
Non-Beamforming, ANT B
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



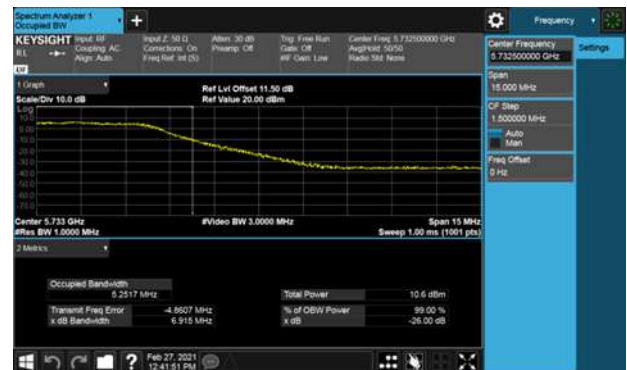
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



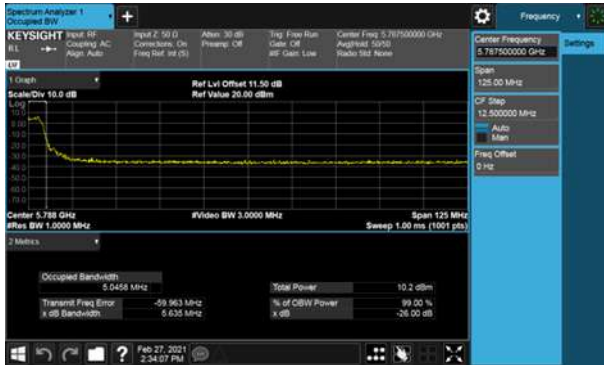
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142





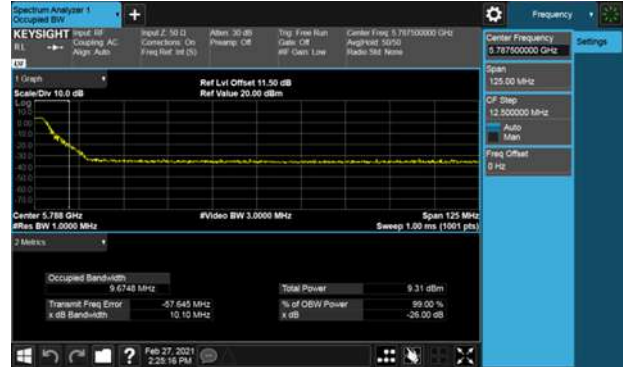
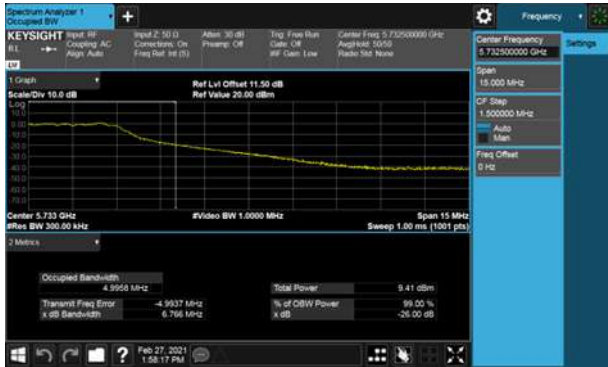
99% Occupied Bandwidth
Non-Beamforming, ANT B
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138





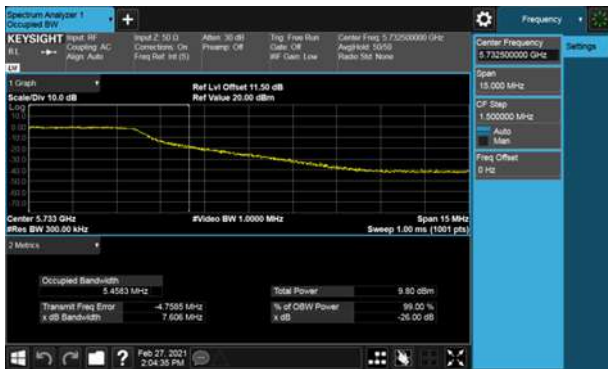
99% Occupied Bandwidth
Non-Beamforming, ANT C
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



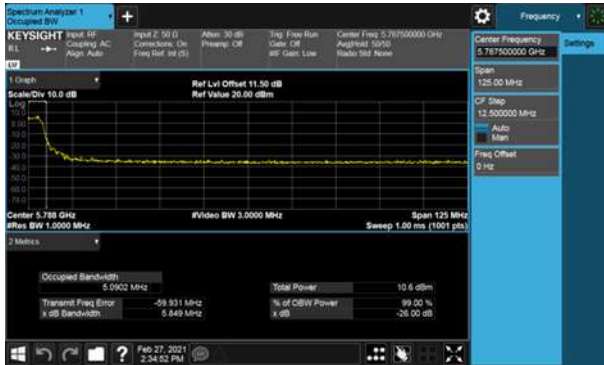
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142





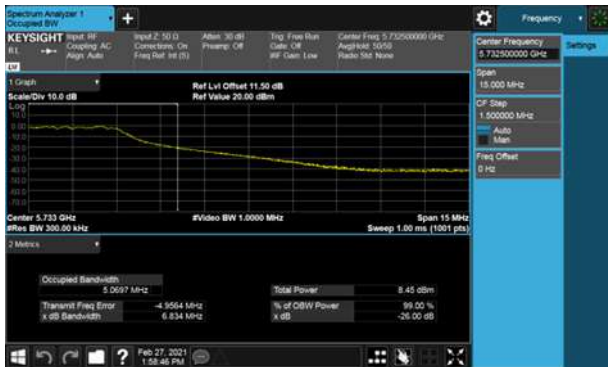
99% Occupied Bandwidth
Non-Beamforming, ANT C
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138





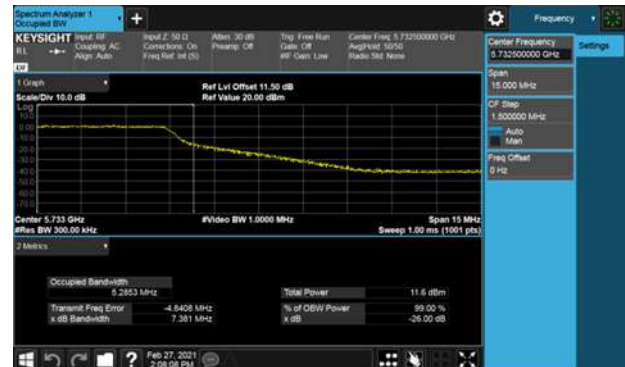
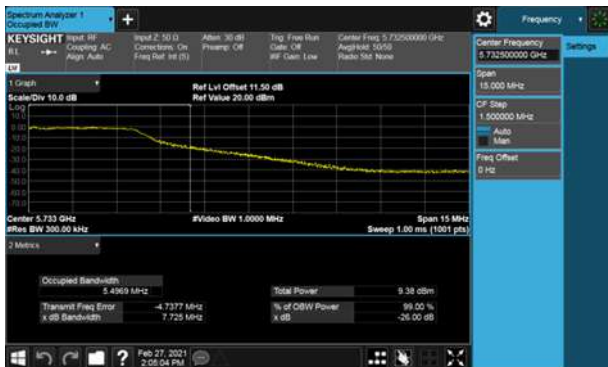
99% Occupied Bandwidth
Non-Beamforming, ANT D
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



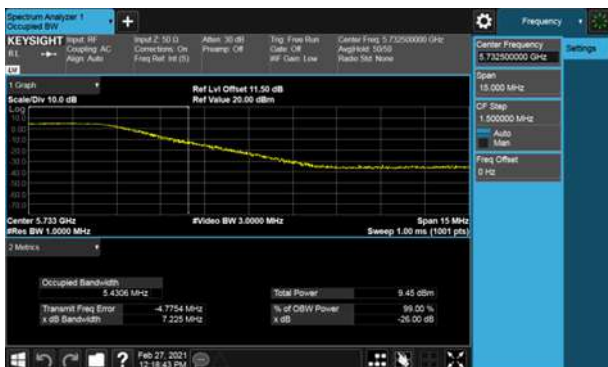
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



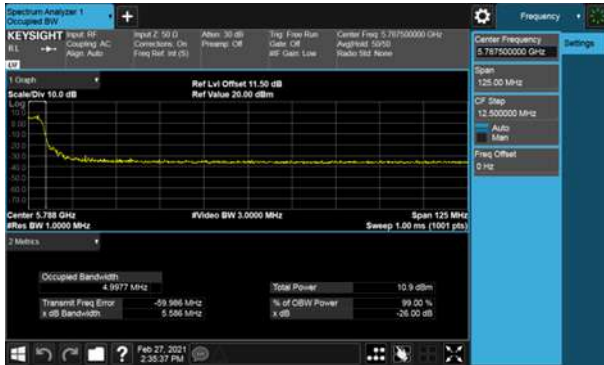
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142



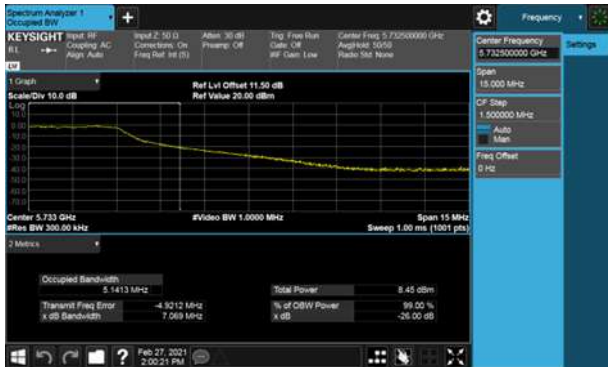


99% Occupied Bandwidth
Non-Beamforming, ANT D
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138





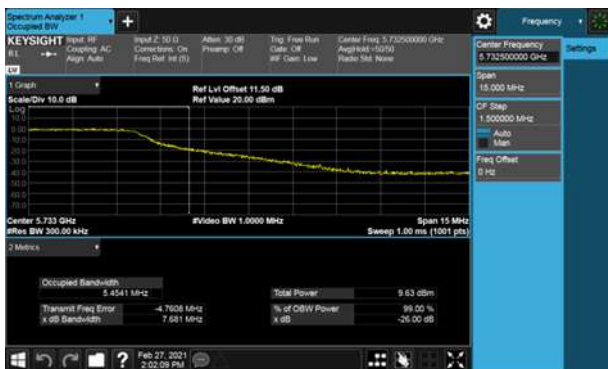
99% Occupied Bandwidth
Non-Beamforming, ANT E
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11a (6Mbps)
CH144



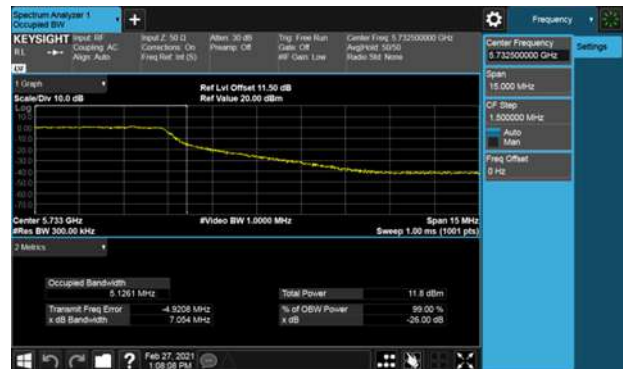
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH138



Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH144



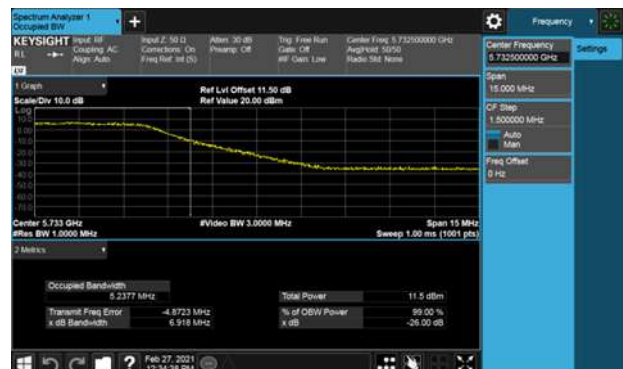
Modulation Type: 802.11ax HE20 (7.3Mbps)
CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH142

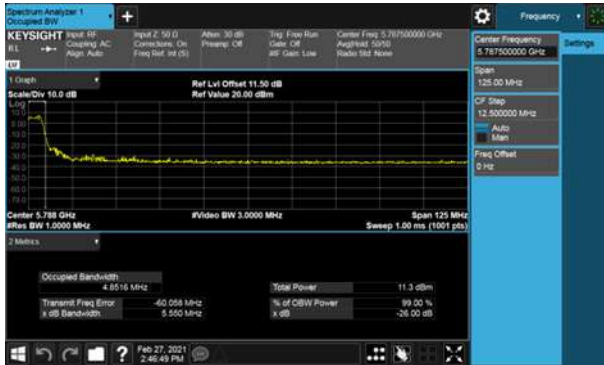


Modulation Type: 802.11ax HE40 (14.6Mbps)
CH142





99% Occupied Bandwidth
Non-Beamforming, ANT E
Extends across 5725MHz Band, Straddle Channel
Modulation Type: 802.11ax HE80 (30.6Mbps)
CH138





6dB Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





6dB Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





6dB Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





6dB Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





6dB Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





6dB Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





6dB Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





6dB Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





6dB Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





6dB Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





6dB Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





6dB Bandwidth
 Beamforming, ANT A
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





6dB Bandwidth
 Beamforming, ANT B
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138

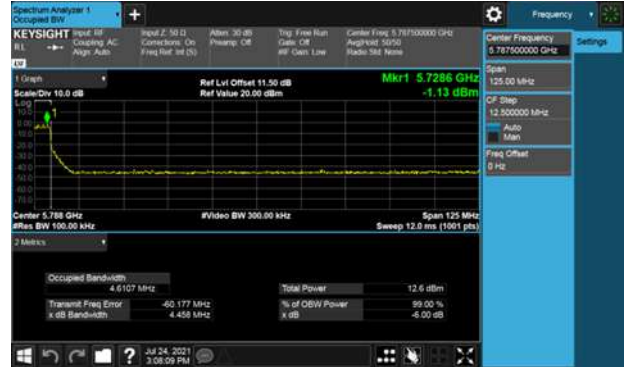




6dB Bandwidth
 Beamforming, ANT C
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





6dB Bandwidth
 Beamforming, ANT D
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





6dB Bandwidth
 Beamforming, ANT E
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138

Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





99% Occupied Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT A
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT B
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT C
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT D
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149

Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155





99% Occupied Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ax HE20(7.3Mbps)
CH149

Modulation Type: 802.11ax HE40(14.6Mbps)
CH151



CH157



CH159



CH165





99% Occupied Bandwidth
Beamforming, ANT E
Modulation Type: 802.11ax HE80(30.6Mbps)
CH155





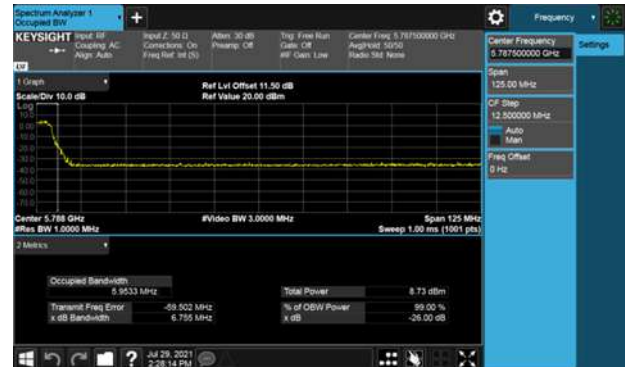
99% Occupied Bandwidth
 Beamforming, ANT A
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138

Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138

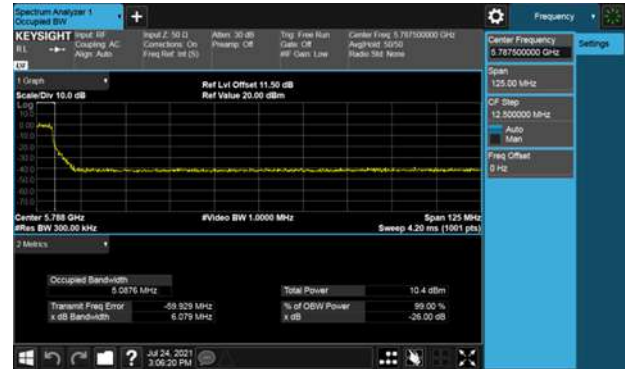




99% Occupied Bandwidth
 Beamforming, ANT B
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



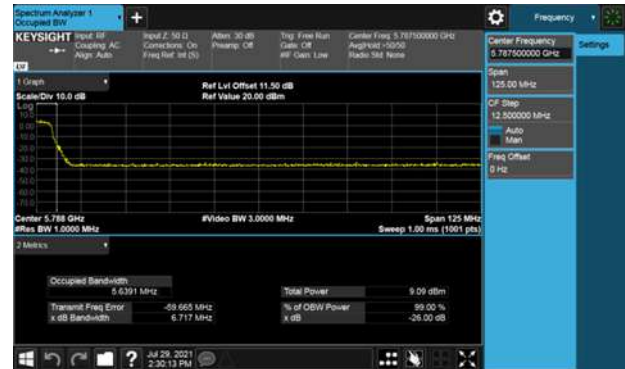
Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



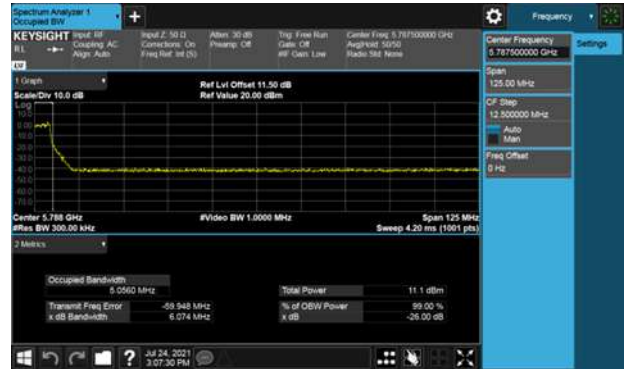
Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





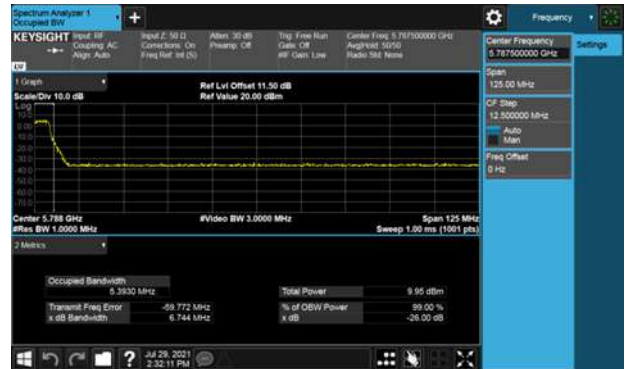
99% Occupied Bandwidth
 Beamforming, ANT C
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138

Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





99% Occupied Bandwidth
 Beamforming, ANT D
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144

Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



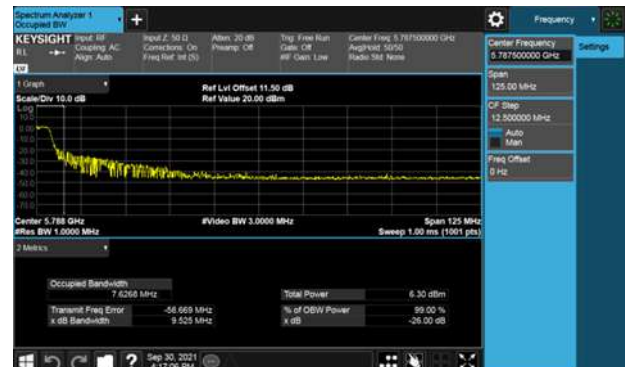
Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142

Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138

Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





99% Occupied Bandwidth
 Beamforming, ANT E
 Extends across 5725MHz Band, Straddle Channel
 Modulation Type: 802.11ac VHT20 (6.5Mbps)
 CH144



Modulation Type: 802.11ax HE20 (7.3Mbps)
 CH144



Modulation Type: 802.11ac VHT40 (13.5Mbps)
 CH142



Modulation Type: 802.11ax HE40 (14.6Mbps)
 CH142



Modulation Type: 802.11ac VHT80 (29.3Mbps)
 CH138



Modulation Type: 802.11ax HE80 (30.6Mbps)
 CH138





9. 26dB Bandwidth & 99% Occupied Bandwidth

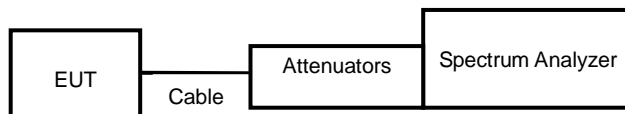
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout





9.4. Test Result and Data

Non-Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	36	5180	23.62	22.84	23.20	22.98	23.65
11a	40	5200	23.15	22.98	23.45	23.15	23.57
11a	48	5240	23.95	23.50	23.34	23.42	23.86
11ac VHT20	36	5180	25.16	24.82	25.06	25.32	24.94
11ac VHT20	40	5200	24.82	24.92	24.90	24.94	25.09
11ac VHT20	48	5240	25.00	25.03	25.00	24.80	25.09
11ac VHT40	38	5190	44.34	44.16	44.27	44.25	44.23
11ac VHT40	46	5230	43.92	44.00	43.85	43.92	44.23
11ac VHT80	42	5210	87.54	87.25	87.11	87.54	88.63
11ax HE20	36	5180	24.69	24.41	24.70	24.76	23.96
11ax HE20	40	5200	25.13	25.06	25.25	25.37	24.19
11ax HE20	48	5240	23.99	23.98	24.07	24.17	24.50
11ax HE40	38	5190	43.67	43.64	43.60	43.56	43.73
11ax HE40	46	5230	43.93	44.02	43.72	44.08	43.26
11ax HE80	42	5210	81.06	81.17	81.09	81.11	81.13



Non-Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	52	5260	23.00	23.24	23.36	23.71	22.94
11a	60	5300	24.49	22.64	23.58	23.83	23.80
11a	64	5320	23.91	22.71	23.05	23.80	23.82
11ac VHT20	52	5260	24.52	24.32	24.27	24.68	24.39
11ac VHT20	60	5300	25.04	25.11	24.85	25.01	24.84
11ac VHT20	64	5320	25.34	25.22	25.27	25.40	25.04
11ac VHT40	54	5270	44.58	44.54	44.53	44.69	44.71
11ac VHT40	62	5310	44.07	44.15	44.24	44.21	44.09
11ac VHT80	58	5290	87.37	86.89	86.92	87.02	90.77
11ax HE20	52	5260	24.34	24.05	24.27	24.56	24.27
11ax HE20	60	5300	24.51	24.44	24.52	24.44	24.57
11ax HE20	64	5320	24.72	24.54	24.84	24.63	24.67
11ax HE40	54	5270	43.54	43.66	43.62	43.77	43.65
11ax HE40	62	5310	43.23	43.20	43.34	43.31	43.24
11ax HE80	58	5290	82.16	82.20	82.05	82.52	81.17



Non-Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	100	5500	24.71	22.82	23.33	23.70	23.91
11a	120	5600	23.71	23.33	23.44	23.46	24.26
11a	140	5700	24.19	24.11	23.70	23.84	24.11
11ac VHT20	100	5500	25.19	25.04	25.52	25.23	25.25
11ac VHT20	120	5600	25.15	25.00	24.82	25.12	25.09
11ac VHT20	140	5700	25.01	25.14	25.00	25.20	24.32
11ac VHT40	102	5510	44.52	44.39	44.45	44.56	44.61
11ac VHT40	118	5590	44.18	44.32	44.22	44.31	44.03
11ac VHT40	134	5670	44.12	43.95	44.05	43.94	44.24
11ac VHT80	106	5530	88.47	88.39	87.71	88.22	88.06
11ac VHT80	122	5610	87.71	87.94	87.79	88.15	88.48
11ax HE20	100	5500	24.50	24.57	24.34	24.76	24.54
11ax HE20	120	5600	24.22	24.14	24.33	24.45	24.56
11ax HE20	140	5700	24.72	24.53	24.58	24.71	24.15
11ax HE40	102	5510	44.17	43.98	44.18	44.10	43.49
11ax HE40	118	5590	43.67	43.72	43.70	43.88	43.97
11ax HE40	134	5670	43.83	43.74	43.85	43.59	43.46
11ax HE80	106	5530	81.29	81.34	81.25	81.38	82.46
11ax HE80	122	5610	81.43	81.50	81.48	81.57	82.24

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Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	42	5210	83.61	83.23	83.30	83.64	83.40
11ac VHT160	58	5290	82.65	82.52	82.22	82.57	82.84
11ac VHT160	114	5570	166.3	165.8	165.7	166.2	166.2



Non-Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	6 Mbps	5720	16.95	16.66	16.96	17.39	17.49
11ac VHT20	MCS0-NSS1	5720	17.48	17.56	17.53	17.56	17.80
11ac VHT40	MCS0-NSS1	5710	37.45	37.36	37.36	37.22	37.24
11ac VHT80	MCS0-NSS1	5690	79.06	79.12	78.74	79.00	79.44
11ax HE20	MCS0-NSS1	5720	17.52	17.62	17.42	17.48	17.51
11ax HE40	MCS0-NSS1	5710	37.05	37.13	37.01	36.97	37.09
11ax HE80	MCS0-NSS1	5690	75.81	75.78	75.75	75.82	75.70



Non-Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	36	5180	16.90	16.92	16.96	16.90	17.01
11a	40	5200	17.27	16.93	17.00	17.01	16.90
11a	48	5240	17.13	16.99	16.92	16.90	17.16
11ac VHT20	36	5180	18.23	18.21	18.21	18.25	18.21
11ac VHT20	40	5200	18.32	18.30	18.30	18.30	18.22
11ac VHT20	48	5240	18.28	18.26	18.25	18.25	18.27
11ac VHT40	38	5190	37.07	37.06	37.10	37.06	37.08
11ac VHT40	46	5230	37.08	37.09	37.14	37.11	37.02
11ac VHT80	42	5210	76.22	76.16	76.17	76.11	76.55
11ax HE20	36	5180	19.27	19.19	19.23	19.21	19.10
11ax HE20	40	5200	19.36	19.31	19.33	19.30	19.14
11ax HE20	48	5240	19.07	19.08	19.07	19.07	19.30
11ax HE40	38	5190	38.17	38.15	38.18	38.18	38.12
11ax HE40	46	5230	38.24	38.29	38.21	38.21	38.18
11ax HE80	42	5210	76.82	76.86	76.83	76.83	77.00



Non-Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	52	5260	16.89	17.11	17.05	16.99	16.84
11a	60	5300	17.39	16.86	16.95	17.07	17.15
11a	64	5320	17.22	16.90	16.86	16.90	17.12
11ac VHT20	52	5260	18.21	18.18	18.20	18.21	18.20
11ac VHT20	60	5300	18.28	18.28	18.29	18.28	18.25
11ac VHT20	64	5320	18.37	18.38	18.36	18.37	18.32
11ac VHT40	54	5270	37.18	37.19	37.14	37.11	37.24
11ac VHT40	62	5310	37.11	37.14	37.07	37.16	37.12
11ac VHT80	58	5290	75.99	75.97	75.96	76.00	76.03
11ax HE20	52	5260	19.15	19.14	19.15	19.24	19.16
11ax HE20	60	5300	19.23	19.21	19.23	19.23	19.19
11ax HE20	64	5320	19.23	19.21	19.22	19.23	19.24
11ax HE40	54	5270	38.18	38.13	38.18	38.13	38.16
11ax HE40	62	5310	38.05	38.05	38.05	38.05	38.09
11ax HE80	58	5290	77.17	77.22	77.20	77.16	77.23



Non-Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	100	5500	17.45	16.84	17.13	17.19	17.10
11a	120	5600	16.96	16.92	16.97	16.94	17.14
11a	140	5700	17.45	17.22	17.07	17.07	17.09
11ac VHT20	100	5500	18.36	18.33	18.31	18.35	18.35
11ac VHT20	120	5600	18.25	18.25	18.24	18.25	18.30
11ac VHT20	140	5700	18.22	18.19	18.21	18.21	18.18
11ac VHT40	102	5510	37.21	37.22	37.22	37.16	37.31
11ac VHT40	118	5590	37.23	37.17	37.22	37.28	37.10
11ac VHT40	134	5670	37.00	36.93	36.99	37.02	36.98
11ac VHT80	106	5530	76.35	76.30	76.33	76.30	76.35
11ac VHT80	122	5610	76.31	76.24	76.25	76.32	76.20
11ax HE20	100	5500	19.16	19.16	19.16	19.18	19.18
11ax HE20	120	5600	19.24	19.25	19.26	19.25	19.20
11ax HE20	140	5700	19.27	19.27	19.26	19.30	19.14
11ax HE40	102	5510	38.05	38.07	38.07	38.08	38.25
11ax HE40	118	5590	38.13	38.12	38.11	38.12	38.46
11ax HE40	134	5670	38.09	38.15	38.14	38.20	38.18
11ax HE80	106	5530	77.11	77.15	77.14	77.17	76.98
11ax HE80	122	5610	76.99	76.96	77.00	77.02	76.99

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Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	42	5210	76.402	76.441	76.511	76.388	76.496
11ac VHT160	58	5290	76.128	76.12	76.157	76.278	76.227
11ac VHT160	114	5570	153.82	153.41	153.68	153.86	153.76



Non-Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11a	6 Mbps	5720	13.69	13.46	13.43	13.49	13.61
11ac VHT20	MCS0-NSS1	5720	14.32	14.30	14.31	14.30	14.32
11ac VHT40	MCS0-NSS1	5710	33.53	33.56	33.54	33.49	33.53
11ac VHT80	MCS0-NSS1	5690	72.78	72.76	72.78	72.75	72.92
11ax HE20	MCS0-NSS1	5720	14.63	14.63	14.64	14.62	14.68
11ax HE40	MCS0-NSS1	5710	34.06	34.07	34.06	34.05	34.09
11ax HE80	MCS0-NSS1	5690	73.34	73.34	73.30	73.33	73.37



Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	36	5180	22.69	24.41	24.22	24.15	23.60
11ac VHT20	40	5200	23.16	24.40	24.16	23.02	24.44
11ac VHT20	48	5240	23.91	22.99	24.16	23.14	23.89
11ac VHT40	38	5190	44.77	43.70	44.72	42.75	43.56
11ac VHT40	46	5230	44.31	42.53	43.89	43.06	43.61
11ac VHT80	42	5210	83.06	83.93	82.25	83.04	82.69
11ax HE20	36	5180	24.28	23.18	22.91	23.58	23.58
11ax HE20	40	5200	22.55	22.94	22.71	22.84	23.56
11ax HE20	48	5240	22.40	23.86	23.24	23.38	23.76
11ax HE40	38	5190	43.81	43.54	43.32	43.87	43.29
11ax HE40	46	5230	44.18	43.35	43.07	43.63	43.87
11ax HE80	42	5210	81.83	83.62	82.24	82.52	82.24



Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	52	5260	21.96	24.49	24.14	25.15	23.68
11ac VHT20	60	5300	22.37	24.47	24.47	24.50	24.22
11ac VHT20	64	5320	23.30	23.85	23.33	24.79	24.87
11ac VHT40	54	5270	44.45	43.43	44.39	44.46	43.50
11ac VHT40	62	5310	43.68	43.00	42.97	43.28	44.16
11ac VHT80	58	5290	84.91	81.67	83.51	84.83	85.35
11ax HE20	52	5260	22.21	22.28	23.10	23.05	22.77
11ax HE20	60	5300	22.37	22.10	23.16	23.85	23.71
11ax HE20	64	5320	23.73	23.44	22.66	23.06	23.52
11ax HE40	54	5270	43.29	44.38	43.78	42.79	43.55
11ax HE40	62	5310	42.90	42.60	43.45	43.71	43.87
11ax HE80	58	5290	82.93	81.39	82.97	82.75	82.60



Beamforming

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	100	5500	23.36	24.52	24.16	22.94	24.61
11ac VHT20	120	5600	24.02	24.41	24.47	24.45	23.73
11ac VHT20	140	5700	24.63	24.43	24.66	25.22	24.53
11ac VHT40	102	5510	43.47	43.86	43.84	44.45	44.28
11ac VHT40	118	5590	44.38	44.15	43.23	44.44	43.36
11ac VHT40	134	5670	44.41	43.67	43.58	43.77	44.15
11ac VHT80	106	5530	84.54	85.70	85.38	86.02	84.41
11ac VHT80	122	5610	85.48	84.51	86.11	84.59	84.25
11ax HE20	100	5500	22.62	22.33	22.73	23.15	24.22
11ax HE20	120	5600	22.91	23.39	22.99	23.62	23.98
11ax HE20	140	5700	22.14	23.54	23.33	23.09	23.42
11ax HE40	102	5510	44.24	42.08	44.03	44.11	43.57
11ax HE40	118	5590	43.14	43.44	43.67	43.06	44.48
11ax HE40	134	5670	44.08	43.22	43.51	43.74	43.41
11ax HE80	106	5530	82.47	82.54	83.08	82.64	82.58
11ax HE80	122	5610	82.83	82.12	81.54	82.45	82.06

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Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	42	5210	82.69	83.00	83.44	83.23	82.80
11ac VHT160	58	5290	83.63	83.69	82.88	82.84	83.81
11ac VHT160	114	5570	165.80	165.30	165.10	166.10	166.20



Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	MCS0-NSS1	5720	17.37	17.35	17.47	17.57	17.53
11ac VHT40	MCS0-NSS1	5710	37.24	36.55	36.98	38.04	37.17
11ac VHT80	MCS0-NSS1	5690	77.60	75.72	77.67	77.45	77.36
11ax HE20	MCS0-NSS1	5720	16.32	16.48	16.79	16.57	16.69
11ax HE40	MCS0-NSS1	5710	37.74	37.69	37.12	37.38	36.69
11ax HE80	MCS0-NSS1	5690	77.29	76.09	77.40	77.05	76.97

UNII Emission Bandwidth Result (Within 5150-5250MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	NSS1-MCS0	5250	82.69	83.00	83.44	83.23	82.80



Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	36	5180	18.24	18.32	18.40	18.18	17.90
11ac VHT20	40	5200	18.07	18.36	18.30	17.30	18.12
11ac VHT20	48	5240	18.62	18.24	18.29	17.90	18.51
11ac VHT40	38	5190	37.03	37.04	37.06	37.00	37.26
11ac VHT40	46	5230	37.16	37.10	37.28	36.92	36.83
11ac VHT80	42	5210	75.86	76.03	75.86	75.80	75.49
11ax HE20	36	5180	19.17	19.09	19.09	19.15	19.14
11ax HE20	40	5200	19.16	19.09	19.08	19.09	19.13
11ax HE20	48	5240	19.16	19.05	19.10	19.14	19.18
11ax HE40	38	5190	38.05	38.07	38.10	38.08	38.03
11ax HE40	46	5230	38.02	38.17	38.15	38.09	38.14
11ax HE80	42	5210	76.71	76.70	76.95	76.84	76.68



Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	52	5260	17.91	18.24	18.28	18.31	18.07
11ac VHT20	60	5300	17.93	18.38	18.28	18.26	18.52
11ac VHT20	64	5320	18.09	18.19	18.15	18.34	18.23
11ac VHT40	54	5270	36.95	36.85	37.24	37.03	36.78
11ac VHT40	62	5310	37.11	36.72	36.99	36.80	37.05
11ac VHT80	58	5290	76.32	75.70	76.11	76.13	76.30
11ax HE20	52	5260	19.16	19.09	19.06	19.13	19.12
11ax HE20	60	5300	19.18	19.08	19.10	19.10	19.21
11ax HE20	64	5320	19.15	19.09	19.13	19.14	19.13
11ax HE40	54	5270	37.91	38.11	38.09	38.07	38.11
11ax HE40	62	5310	38.01	38.14	38.14	38.13	38.21
11ax HE80	58	5290	76.63	76.77	76.85	76.97	77.07



Beamforming

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	100	5500	17.84	18.27	18.20	18.28	18.30
11ac VHT20	120	5600	18.12	18.36	18.28	18.29	18.10
11ac VHT20	140	5700	18.21	18.23	18.23	18.19	18.28
11ac VHT40	102	5510	36.44	36.86	37.01	37.13	36.84
11ac VHT40	118	5590	37.39	36.93	36.95	37.47	37.14
11ac VHT40	134	5670	37.15	37.00	37.00	37.09	37.19
11ac VHT80	106	5530	76.34	76.06	76.13	76.30	76.34
11ac VHT80	122	5610	76.28	76.28	75.62	76.23	76.02
11ax HE20	100	5500	19.16	19.08	19.08	19.11	19.19
11ax HE20	120	5600	19.12	19.16	19.11	19.11	19.20
11ax HE20	140	5700	19.14	19.07	19.13	19.14	19.14
11ax HE40	102	5510	37.93	38.14	38.17	38.07	38.16
11ax HE40	118	5590	37.97	38.04	38.07	38.10	38.06
11ax HE40	134	5670	37.95	38.04	38.11	38.09	38.15
11ax HE80	106	5530	76.67	76.88	76.75	76.83	76.75
11ax HE80	122	5610	76.74	76.68	76.84	76.89	76.69

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Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	42	5210	76.42	76.41	76.39	76.44	76.31
11ac VHT160	58	5290	76.33	76.34	76.46	76.21	76.38
11ac VHT160	114	5570	153.95	153.19	154.23	153.49	154.28



Beamforming

UNII Emission Bandwidth Result (Within 5470-5725MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT20	MCS0-NSS1	5720	14.34	14.07	14.27	14.26	14.40
11ac VHT40	MCS0-NSS1	5710	33.51	33.27	33.60	33.83	33.68
11ac VHT80	MCS0-NSS1	5690	72.74	72.89	73.20	72.93	72.86
11ax HE20	MCS0-NSS1	5720	14.72	14.78	14.69	14.75	14.66
11ax HE40	MCS0-NSS1	5710	33.98	33.96	33.92	33.94	34.08
11ax HE80	MCS0-NSS1	5690	72.90	73.10	72.80	73.26	73.08



Beamforming

UNII Emission Bandwidth Result (Within 5150-5250MHz band)							
Modulation Type	Data Rate / MCS	Frequency (MHz)	99% Bandwidth(MHz)				
			ANT A	ANT B	ANT C	ANT D	ANT E
11ac VHT160	NSS1-MCS0	5250	76.42	76.41	76.39	76.44	76.31



26dB Bandwidth
Non-Beamforming, ANT A
Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



CH40

CH40



CH48

CH48





26dB Bandwidth
Non-Beamforming, ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





26dB Bandwidth
Non-Beamforming, ANT A
Modulation Type: 802.11ax HE20(7.3Mbps)
CH36

Modulation Type: 802.11ax HE40(14.6Mbps)
CH38



CH40



CH46



CH48





26dB Bandwidth
Non-Beamforming, ANT A
Modulation Type: 802.11ax HE80(30.6Mbps)
CH42





26dB Bandwidth
Non-Beamforming, ANT B
Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



CH40

CH40



CH48

CH48





26dB Bandwidth
Non-Beamforming, ANT B
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





26dB Bandwidth
Non-Beamforming, ANT B
Modulation Type: 802.11ax HE20(7.3Mbps)
CH36

Modulation Type: 802.11ax HE40(14.6Mbps)
CH38



CH40



CH46



CH48





26dB Bandwidth
Non-Beamforming, ANT B
Modulation Type: 802.11ax HE80(30.6Mbps)
CH42





26dB Bandwidth
Non-Beamforming, ANT C
Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



CH40



CH40



CH48



CH48





26dB Bandwidth
Non-Beamforming, ANT C
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46





26dB Bandwidth
Non-Beamforming, ANT C
Modulation Type: 802.11ax HE20(7.3Mbps)
CH36

Modulation Type: 802.11ax HE40(14.6Mbps)
CH38



CH40



CH46



CH48





26dB Bandwidth
Non-Beamforming, ANT C
Modulation Type: 802.11ax HE80(30.6Mbps)
CH42





26dB Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11a (6Mbps)
CH36

Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



CH40

CH40



CH48

CH48





26dB Bandwidth
Non-Beamforming, ANT D
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH38

Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH42



CH46

