

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	5290MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5	Date:	12/09/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		

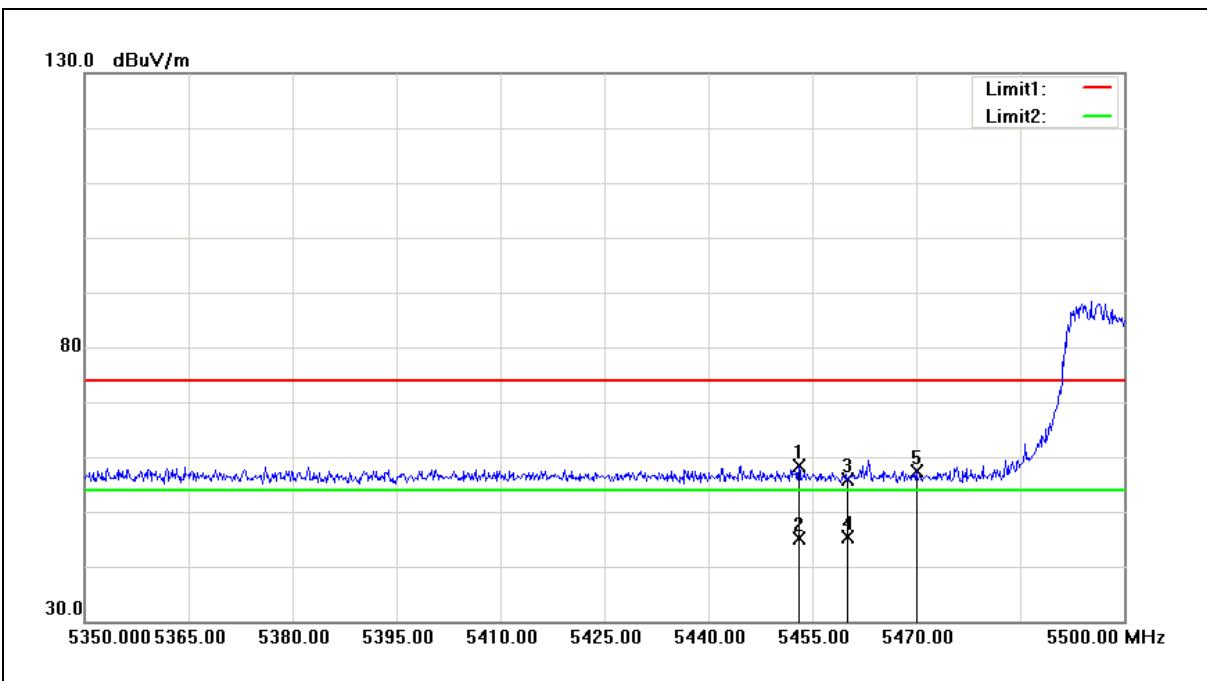
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5140.320	56.53	8.24	64.77	74.00	-9.23	peak
2	5140.320	37.27	8.24	45.51	54.00	-8.49	AVG
3	5150.000	49.14	8.25	57.39	74.00	-16.61	peak
4	5150.000	37.68	8.25	45.93	54.00	-8.07	AVG
5	5350.000	59.29	8.41	67.70	74.00	-6.30	peak
6	5350.000	44.57	8.41	52.98	54.00	-1.02	AVG
7	5367.840	64.69	8.43	73.12	74.00	-0.88	peak
8	5367.840	44.05	8.43	52.48	54.00	-1.52	AVG

Note:1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5	Date:	12/09/2016
Ant.Polar.:	Horizontal		
Description:	Antenna:CO59-510347-A		



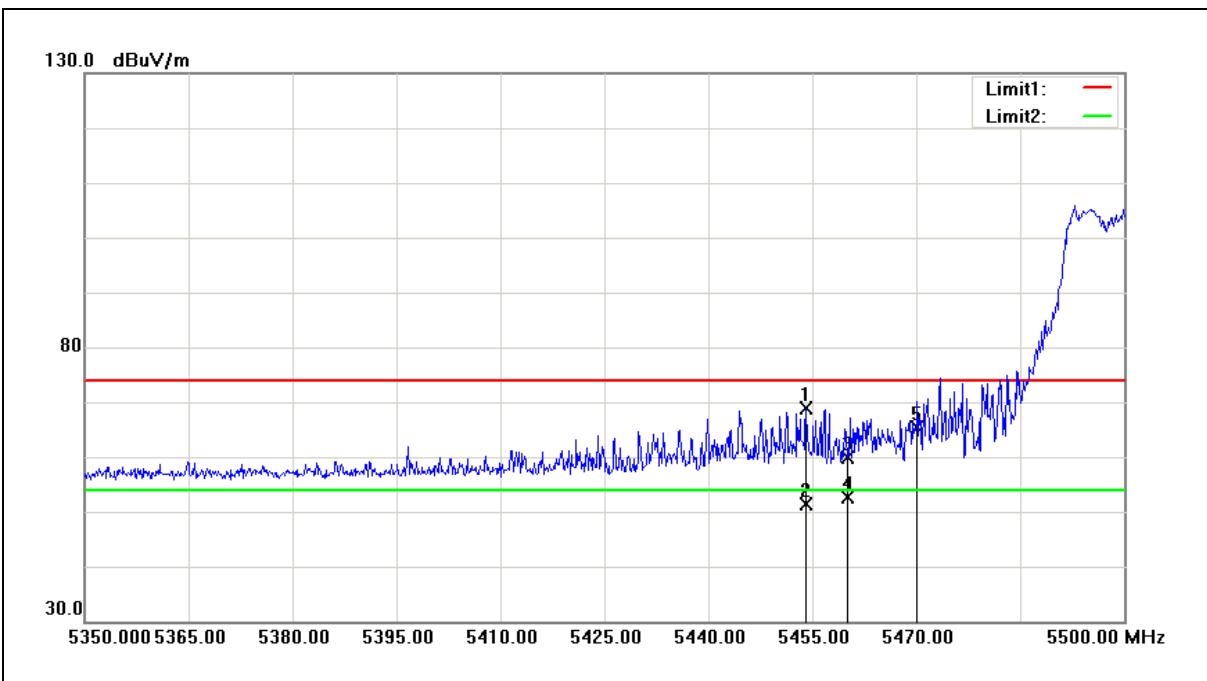
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.050	49.84	8.51	58.35	74.00	-15.65	peak
2	5453.050	36.74	8.51	45.25	54.00	-8.75	AVG
3	5460.000	47.48	8.51	55.99	74.00	-18.01	peak
4	5460.000	36.85	8.51	45.36	54.00	-8.64	AVG
5	5470.000	48.88	8.53	57.41	68.20	-10.79	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC PART 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 110V/60Hz
Frequency:	5530MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5	Date:	12/09/2016
Ant.Polar.:	Vertical		
Description:	Antenna:CO59-510347-A		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5454.100	60.36	8.51	68.87	74.00	-5.13	peak
2	5454.100	42.89	8.51	51.40	54.00	-2.60	AVG
3	5460.000	51.43	8.51	59.94	74.00	-14.06	peak
4	5460.000	44.19	8.51	52.70	54.00	-1.30	AVG
5	5470.000	56.79	8.53	65.32	68.20	-2.88	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

4.4. Maximum Conducted Output Power and Transmit power control Measurement

■ Limit

Frequency Range (MHz)	FCC Limit
5.250 ~ 5.350 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.470 ~ 5.725 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)

Note: Where B is the 26dB emission bandwidth in MHz.

According FCC KDB 662911 D01 v02r01 – for power measurements on IEEE802.11 devices,

Module : QCA9984 (EW-7955MAC)

Master mode

* CDD mode : Directional Gain = 7 dBi > 6dBi

Mode 2: IEEE 802.11a Link Mode

CDD mode power limit shall be reduced = 11dBm + 10log (B) - 1

$$= 23.67 - 1 = 22.67 \text{ dBm (5.250 ~ 5.350 GHz)}$$

CDD mode power limit shall be reduced = 11dBm + 10log (B) - 1

$$= 23.63 - 1 = 22.63 \text{ dBm (5.470 ~ 5.725 GHz)}$$

* MIMO mode : Directional Gain = $10^{\star} \log\{[10^{(G1/20)}+10^{(G2/20)}+\dots+10^{(Gn/20)}]^2/NANT\} = 13.02 \text{ dBi} > 6 \text{ dBi}$

Mode 3: IEEE 802.11ac 20MHz Link Mode

MIMO mode power limit shall be reduced = 11dBm + 10log (B) - 7.02

$$= 23.98 - 7.02 = 16.96 \text{ dBm (5.250 ~ 5.350 GHz)}$$

MIMO mode power limit shall be reduced = 11dBm + 10log (B) - 7.02

$$= 23.86 - 7.02 = 16.84 \text{ dBm (5.470 ~ 5.725 GHz)}$$

Mode 4: IEEE 802.11ac 40MHz Link Mode / Mode 5: IEEE 802.11ac 80MHz Link Mode

MIMO mode power limit shall be reduced = 11dBm + 10log (B) - 7.02

$$= 24 - 7.02 = 16.98 \text{ dBm (5.250 ~ 5.350 GHz)}$$

MIMO mode power limit shall be reduced = 11dBm + 10log (B) - 7.02

$$= 24 - 7.02 = 16.98 \text{ dBm (5.470 ~ 5.725 GHz)}$$

Module : QCA9990 (EW-7944MAC)

Master mode

- * CDD mode : Directional Gain = 6 dBi = 6dB

Mode 2: IEEE 802.11a Link Mode

CDD mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 0$

$$= 23.71 - 0 = 23.71 \text{ dBm (5.250 ~ 5.350 GHz)}$$

CDD mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 0$

$$= 23.67 - 0 = 23.67 \text{ dBm (5.470 ~ 5.725 GHz)}$$

- * MIMO mode : Directional Gain = $10^*\log\{[10^{(G1/20)}+10^{(G2/20)}+\dots+10^{(Gn/20)}]^2/N_{ANT}\} = 12.02 \text{ dBi} > 6\text{dB}$

Mode 3: IEEE 802.11ac 20MHz Link Mode

MIMO mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 6.02$

$$= 23.93 - 6.02 = 17.91 \text{ dBm (5.250 ~ 5.350 GHz)}$$

MIMO mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 6.02$

$$= 23.88 - 6.02 = 17.86 \text{ dBm (5.470 ~ 5.725 GHz)}$$

Mode 4: IEEE 802.11ac 40MHz Link Mode / Mode 5: IEEE 802.11ac 80MHz Link Mode

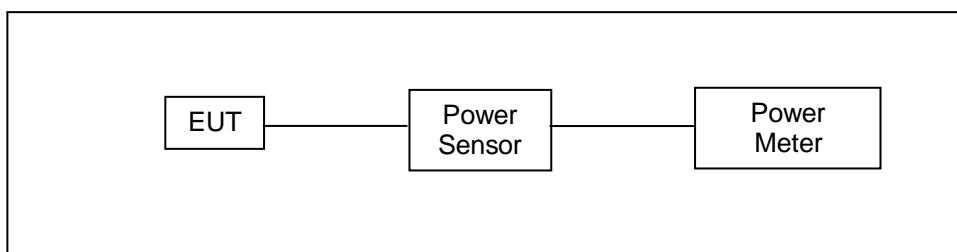
MIMO mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 6.02$

$$= 24 - 6.02 = 17.98 \text{ dBm (5.250 ~ 5.350 GHz)}$$

MIMO mode power limit shall be reduced = $11\text{dBm} + 10\log(B) - 6.02$

$$= 24 - 6.02 = 17.98 \text{ dBm (5.470 ~ 5.725 GHz)}$$

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Power Sensor	Anritsu	MA2411B	1126022	08/29/2016	1 year
Power Meter	Anritsu	ML2495A	1135009	08/29/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r02, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices

Section (E) Maximum Conducted Output Power

3. Measurement using a Power Meter (PM)

b) Method PM-G (Measurement using a gated RF average power meter)

■ Test Result

Module : QCA9984 (EW-7955MAC)

Test Mode		Mode 2: IEEE 802.11a Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5260.0	6M	9.43	0.009	10.81	0.012	10.88	0.012	9.79	0.010	16.29	0.043	≤ 22.67	
5280.0		9.22	0.008	11.07	0.013	10.83	0.012	9.93	0.010	16.34	0.043		
5300.0		9.30	0.009	10.97	0.013	10.88	0.012	9.85	0.010	16.33	0.043		
5320.0		8.69	0.007	10.13	0.010	9.88	0.010	8.98	0.008	15.48	0.035		
5500.0		4.68	0.003	7.47	0.006	6.21	0.004	6.25	0.004	12.28	0.017	≤ 22.63	
5520.0		3.81	0.002	6.36	0.004	5.45	0.004	5.28	0.003	11.34	0.014		
5540.0		3.86	0.002	6.58	0.005	5.49	0.004	5.23	0.003	11.42	0.014		
5560.0		3.93	0.002	6.66	0.005	5.42	0.003	5.48	0.004	11.50	0.014		
5580.0		4.09	0.003	6.72	0.005	5.47	0.004	5.41	0.003	11.54	0.014	≤ 16.65	
5660.0		4.57	0.003	7.05	0.005	6.13	0.004	5.51	0.004	11.93	0.016		
5680.0		4.75	0.003	7.14	0.005	6.30	0.004	5.62	0.004	12.06	0.016		
5700.0		4.43	0.003	6.25	0.004	5.84	0.004	4.85	0.003	11.42	0.014		
5260.0	54M	9.38	0.009	10.75	0.012	10.84	0.012	9.74	0.009	16.24	0.042	≤ 16.61	
5280.0		9.20	0.008	11.06	0.013	10.81	0.012	9.90	0.010	16.33	0.043		
5300.0		9.24	0.008	10.96	0.012	10.84	0.012	9.82	0.010	16.29	0.043		
5320.0		8.66	0.007	10.09	0.010	9.84	0.010	8.95	0.008	15.45	0.035		
5500.0		4.63	0.003	7.42	0.006	6.18	0.004	6.21	0.004	12.24	0.017		
5520.0		3.83	0.002	6.33	0.004	5.42	0.003	5.24	0.003	11.31	0.014		
5540.0		3.83	0.002	6.54	0.005	5.47	0.004	5.20	0.003	11.39	0.014		
5560.0		3.90	0.002	6.62	0.005	5.36	0.003	5.44	0.003	11.46	0.014		
5580.0		4.06	0.003	6.66	0.005	5.44	0.003	5.35	0.003	11.49	0.014		
5660.0		4.52	0.003	7.03	0.005	6.10	0.004	5.45	0.004	11.89	0.015		
5680.0		4.72	0.003	7.08	0.005	6.25	0.004	5.56	0.004	12.01	0.016		
5700.0		4.41	0.003	6.20	0.004	5.79	0.004	4.82	0.003	11.39	0.014		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11ac 20MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5260.0	26M	9.13	0.008	10.45	0.011	10.47	0.011	9.41	0.009	15.93	0.039	≤ 16.96	
5280.0		8.75	0.007	10.44	0.011	10.39	0.011	9.50	0.009	15.85	0.038		
5300.0		8.67	0.007	10.42	0.011	10.29	0.011	9.65	0.009	15.83	0.038		
5320.0		8.69	0.007	10.34	0.011	9.86	0.010	9.42	0.009	15.64	0.037		
5500.0		4.16	0.003	7.13	0.005	6.13	0.004	6.23	0.004	12.06	0.016	≤ 16.84	
5520.0		3.98	0.003	7.15	0.005	5.54	0.004	5.79	0.004	11.78	0.015		
5540.0		4.02	0.003	7.32	0.005	5.69	0.004	5.92	0.004	11.91	0.016		
5560.0		4.17	0.003	7.24	0.005	5.49	0.004	5.94	0.004	11.87	0.015		
5580.0	312M	4.32	0.003	7.21	0.005	5.68	0.004	5.84	0.004	11.90	0.015	≤ 16.96	
5660.0		5.12	0.003	7.53	0.006	6.39	0.004	6.04	0.004	12.38	0.017		
5680.0		5.32	0.003	7.30	0.005	6.58	0.005	6.23	0.004	12.44	0.018		
5700.0		4.24	0.003	6.55	0.005	6.33	0.004	5.34	0.003	11.73	0.015		
5260.0		9.10	0.008	10.42	0.011	10.42	0.011	9.37	0.009	15.89	0.039	≤ 16.84	
5280.0		8.73	0.007	10.39	0.011	10.33	0.011	9.45	0.009	15.80	0.038		
5300.0		8.66	0.007	10.41	0.011	10.24	0.011	9.60	0.009	15.80	0.038		
5320.0		8.68	0.007	10.29	0.011	9.81	0.010	9.38	0.009	15.60	0.036		
5500.0		4.14	0.003	7.12	0.005	6.08	0.004	6.22	0.004	12.04	0.016	≤ 16.84	
5520.0		3.94	0.002	7.11	0.005	5.53	0.004	5.77	0.004	11.75	0.015		
5540.0		4.01	0.003	7.31	0.005	5.65	0.004	5.89	0.004	11.89	0.015		
5560.0		4.12	0.003	7.21	0.005	5.47	0.004	5.91	0.004	11.84	0.015		
5580.0		4.28	0.003	7.20	0.005	5.65	0.004	5.78	0.004	11.87	0.015		
5660.0		5.09	0.003	7.50	0.006	6.37	0.004	5.98	0.004	12.34	0.017		
5680.0		5.31	0.003	7.26	0.005	6.55	0.005	6.19	0.004	12.40	0.017		
5700.0		4.22	0.003	6.54	0.005	6.27	0.004	5.28	0.003	11.69	0.015		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 4: IEEE 802.11ac 40MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5270.0	54M	9.65	0.009	11.22	0.013	10.99	0.013	10.26	0.011	16.59	0.046	≤ 16.98	
5310.0		9.57	0.009	11.19	0.013	10.98	0.013	10.32	0.011	16.58	0.046		
5510.0		5.36	0.003	8.24	0.007	7.32	0.005	7.14	0.005	13.15	0.021		
5550.0		5.12	0.003	7.72	0.006	6.60	0.005	7.02	0.005	12.74	0.019		
5670.0		6.14	0.004	8.31	0.007	7.32	0.005	7.08	0.005	13.30	0.021		
5270.0	720M	9.60	0.009	11.17	0.013	10.96	0.012	10.24	0.011	16.56	0.045	≤ 16.98	
5310.0		9.55	0.009	11.16	0.013	10.94	0.012	10.30	0.011	16.55	0.045		
5510.0		5.33	0.003	8.21	0.007	7.30	0.005	7.12	0.005	13.13	0.021		
5550.0		5.09	0.003	7.67	0.006	6.56	0.005	6.98	0.005	12.69	0.019		
5670.0		6.09	0.004	8.26	0.007	7.27	0.005	7.06	0.005	13.26	0.021		

Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5290.0	117.2M	9.24	0.008	10.71	0.012	10.90	0.012	9.95	0.010	16.27	0.042	≤ 16.98	
5530.0		6.64	0.005	9.01	0.008	8.32	0.007	8.06	0.006	14.11	0.026		
5290.0	1560M	9.22	0.008	10.68	0.012	10.87	0.012	9.89	0.010	16.23	0.042	≤ 16.98	
5530.0		6.63	0.005	8.97	0.008	8.28	0.007	8.03	0.006	14.08	0.026		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 2: IEEE 802.11a Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm)			
5260.0	6M	10.57	7.00	17.57	0.057	≤ 24	
5280.0		10.55	7.00	17.55	0.057		
5300.0		10.56	7.00	17.56	0.057		
5320.0		9.68	7.00	16.68	0.047		
5500.0		6.18	7.00	13.18	0.021		
5520.0		5.34	7.00	12.34	0.017		
5540.0		5.35	7.00	12.35	0.017		
5560.0		5.41	7.00	12.41	0.017		
5580.0		5.44	7.00	12.44	0.018		
5660.0		5.94	7.00	12.94	0.020		
5680.0		6.09	7.00	13.09	0.020		
5700.0		5.56	7.00	12.56	0.018		
5260.0	54M	10.57	7.00	17.57	0.057	≤ 24	
5280.0		10.52	7.00	17.52	0.057		
5300.0		10.54	7.00	17.54	0.057		
5320.0		9.64	7.00	16.64	0.046		
5500.0		6.15	7.00	13.15	0.021		
5520.0		5.30	7.00	12.30	0.017		
5540.0		5.32	7.00	12.32	0.017		
5560.0		5.38	7.00	12.38	0.017		
5580.0		5.41	7.00	12.41	0.017		
5660.0		5.92	7.00	12.92	0.020		
5680.0		6.06	7.00	13.06	0.020		
5700.0		5.52	7.00	12.52	0.018		

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

Test Mode		Mode 3: IEEE 802.11ac 20MHz Link Mode				
Frequency (MHz)	Data Rate	Transmit power control			FCC Limit (dBm)	
		ANT-0+1+2+3				
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm)		
5260.0	26M	10.26	13.02	23.28	0.213	
5280.0		10.15	13.02	23.17	0.208	
5300.0		10.13	13.02	23.15	0.207	
5320.0		9.82	13.02	22.84	0.192	
5500.0		6.08	13.02	19.10	0.081	
5520.0		5.60	13.02	18.62	0.073	
5540.0		5.73	13.02	18.75	0.075	
5560.0		5.66	13.02	18.68	0.074	
5580.0		5.76	13.02	18.78	0.075	
5660.0		6.35	13.02	19.37	0.086	
5680.0		6.56	13.02	19.58	0.091	
5700.0		5.98	13.02	19.00	0.079	
5260.0	312M	10.23	13.02	23.25	0.212	
5280.0		10.11	13.02	23.13	0.205	
5300.0		10.10	13.02	23.12	0.205	
5320.0		9.79	13.02	22.81	0.191	
5500.0		6.04	13.02	19.06	0.080	
5520.0		5.58	13.02	18.60	0.072	
5540.0		5.70	13.02	18.72	0.075	
5560.0		5.61	13.02	18.63	0.073	
5580.0		5.72	13.02	18.74	0.075	
5660.0		6.31	13.02	19.33	0.086	
5680.0		6.50	13.02	19.52	0.090	
5700.0		5.94	13.02	18.96	0.079	

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)



Test Mode		Mode 4: IEEE 802.11ac 40MHz Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm) (W)			
5270.0	54M	10.72	13.02	23.74	0.236	≤24	
5310.0		10.72	13.02	23.74	0.237		
5510.0		7.07	13.02	20.09	0.102		
5550.0		6.60	13.02	19.62	0.092		
5670.0		7.21	13.02	20.23	0.105		
5270.0		10.68	13.02	23.70	0.234		
5310.0	720M	10.68	13.02	23.70	0.234	≤24	
5510.0		7.05	13.02	20.07	0.102		
5550.0		6.56	13.02	19.58	0.091		
5670.0		7.18	13.02	20.20	0.105		

Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm) (W)			
5290.0	117.2M	10.65	13.02	23.67	0.233	≤24	
5530.0		8.23	13.02	21.25	0.133		
5290.0	1560M	10.61	13.02	23.63	0.231		
5530.0		8.18	13.02	21.20	0.132		

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

Module : QCA9990 (EW-7944MAC)

Test Mode		Mode 2: IEEE 802.11a Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5260.0	6M	9.21	0.008	10.69	0.012	10.12	0.010	9.84	0.010	16.02	0.040	≤ 23.71	
5280.0		9.19	0.008	10.90	0.012	10.07	0.010	9.79	0.010	16.05	0.040		
5300.0		9.30	0.009	10.85	0.012	10.04	0.010	9.89	0.010	16.08	0.041		
5320.0		9.74	0.009	10.87	0.012	9.95	0.010	9.92	0.010	16.16	0.041		
5500.0		8.81	0.008	10.05	0.010	9.61	0.009	9.75	0.009	15.60	0.036	≤ 23.67	
5520.0		8.41	0.007	9.32	0.009	9.06	0.008	9.12	0.008	15.01	0.032		
5540.0		8.31	0.007	9.29	0.008	9.20	0.008	9.07	0.008	15.00	0.032		
5560.0		8.30	0.007	9.45	0.009	9.24	0.008	9.15	0.008	15.08	0.032		
5580.0		8.23	0.007	9.48	0.009	9.28	0.008	9.09	0.008	15.07	0.032	≤ 17.69	
5660.0		7.97	0.006	9.53	0.009	9.40	0.009	8.89	0.008	15.01	0.032		
5680.0		7.99	0.006	9.65	0.009	9.53	0.009	8.87	0.008	15.08	0.032		
5700.0		8.20	0.007	9.72	0.009	9.54	0.009	9.05	0.008	15.19	0.033		
5260.0	54M	9.08	0.008	10.63	0.012	10.00	0.010	9.79	0.010	15.93	0.039	≤ 17.69	
5280.0		9.05	0.008	10.81	0.012	10.04	0.010	9.64	0.009	15.95	0.039		
5300.0		9.25	0.008	10.72	0.012	9.89	0.010	9.70	0.009	15.94	0.039		
5320.0		9.69	0.009	10.77	0.012	9.91	0.010	9.73	0.009	16.07	0.040		
5500.0		8.75	0.007	10.03	0.010	9.49	0.009	9.62	0.009	15.52	0.036	≤ 17.65	
5520.0		8.31	0.007	9.26	0.008	8.91	0.008	8.97	0.008	14.90	0.031		
5540.0		8.21	0.007	9.21	0.008	9.11	0.008	8.88	0.008	14.89	0.031		
5560.0		8.16	0.007	9.35	0.009	9.22	0.008	9.10	0.008	15.00	0.032		
5580.0		8.18	0.007	9.36	0.009	9.16	0.008	8.91	0.008	14.95	0.031	≤ 17.65	
5660.0		7.79	0.006	9.47	0.009	9.30	0.009	8.76	0.008	14.90	0.031		
5680.0		7.91	0.006	9.61	0.009	9.50	0.009	8.71	0.007	15.01	0.032		
5700.0		8.18	0.007	9.71	0.009	9.47	0.009	8.93	0.008	15.13	0.033		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 3: IEEE 802.11ac 20MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5260.0	26M	8.93	0.008	10.71	0.012	10.12	0.010	9.76	0.009	15.95	0.039	≤ 17.91	
5280.0		9.07	0.008	10.80	0.012	10.13	0.010	9.73	0.009	16.00	0.040		
5300.0		9.23	0.008	10.83	0.012	10.14	0.010	9.81	0.010	16.06	0.040		
5320.0		9.61	0.009	10.87	0.012	10.01	0.010	9.80	0.010	16.12	0.041		
5500.0		9.03	0.008	10.55	0.011	10.02	0.010	10.16	0.010	16.00	0.040	≤ 17.86	
5520.0		8.27	0.007	9.64	0.009	9.50	0.009	9.54	0.009	15.29	0.034		
5540.0		8.22	0.007	9.88	0.010	9.49	0.009	9.47	0.009	15.33	0.034		
5560.0		8.25	0.007	9.66	0.009	9.54	0.009	9.55	0.009	15.31	0.034		
5580.0		8.32	0.007	9.61	0.009	9.52	0.009	9.51	0.009	15.29	0.034	≤ 17.91	
5660.0		8.15	0.007	9.68	0.009	9.66	0.009	9.31	0.009	15.26	0.034		
5680.0		8.25	0.007	9.78	0.010	9.78	0.010	9.30	0.009	15.34	0.034		
5700.0		7.92	0.006	9.21	0.008	9.27	0.008	8.92	0.008	14.88	0.031		
5260.0	312M	8.79	0.008	10.68	0.012	10.01	0.010	9.51	0.009	15.82	0.038	≤ 17.91	
5280.0		8.95	0.008	10.76	0.012	10.05	0.010	9.68	0.009	15.93	0.039		
5300.0		9.15	0.008	10.75	0.012	9.97	0.010	9.71	0.009	15.95	0.039		
5320.0		9.39	0.009	10.79	0.012	9.88	0.010	9.57	0.009	15.96	0.039		
5500.0		8.87	0.008	10.43	0.011	9.81	0.010	9.88	0.010	15.80	0.038	≤ 17.86	
5520.0		8.18	0.007	9.57	0.009	9.35	0.009	9.38	0.009	15.17	0.033		
5540.0		8.18	0.007	9.75	0.009	9.37	0.009	9.25	0.008	15.20	0.033		
5560.0		8.14	0.007	9.52	0.009	9.34	0.009	9.32	0.009	15.13	0.033		
5580.0		8.24	0.007	9.48	0.009	9.44	0.009	9.27	0.008	15.16	0.033	≤ 17.91	
5660.0		8.03	0.006	9.57	0.009	9.51	0.009	9.14	0.008	15.13	0.033		
5680.0		8.17	0.007	9.69	0.009	9.52	0.009	9.04	0.008	15.16	0.033		
5700.0		7.78	0.006	9.14	0.008	9.07	0.008	8.79	0.008	14.75	0.030		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 4: IEEE 802.11ac 40MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5270.0	54M	10.60	0.011	12.20	0.017	11.79	0.015	11.77	0.015	17.65	0.058	≤ 17.98	
5310.0		10.74	0.012	12.40	0.017	11.88	0.015	11.69	0.015	17.74	0.059		
5510.0		10.40	0.011	11.78	0.015	11.47	0.014	11.53	0.014	17.35	0.054		
5550.0		9.91	0.010	11.31	0.014	10.97	0.013	11.09	0.013	16.87	0.049		
5670.0		8.65	0.007	10.17	0.010	10.32	0.011	9.76	0.009	15.79	0.038		
5270.0	720M	10.41	0.011	12.02	0.016	11.75	0.015	11.75	0.015	17.55	0.057	≤ 17.98	
5310.0		10.55	0.011	12.24	0.017	11.71	0.015	11.59	0.014	17.59	0.057		
5510.0		10.34	0.011	11.65	0.015	11.37	0.014	11.37	0.014	17.23	0.053		
5550.0		9.89	0.010	11.23	0.013	10.88	0.012	10.98	0.013	16.79	0.048		
5670.0		8.46	0.007	10.03	0.010	10.22	0.011	9.57	0.009	15.64	0.037		

Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode											
Frequency (MHz)	Data Rate	Max. Output Power										FCC Limit (dBm)	
		ANT-0		ANT-1		ANT-2		ANT-3		ANT-0+1+2+3			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5290.0	117.2M	10.27	0.011	11.94	0.016	11.25	0.013	11.18	0.013	17.22	0.053	≤ 17.98	
5530.0		10.79	0.012	12.14	0.016	11.95	0.016	11.73	0.015	17.70	0.059		
5290.0	1560M	10.24	0.011	11.81	0.015	11.23	0.013	11.11	0.013	17.15	0.052	≤ 17.98	
5530.0		10.60	0.011	12.01	0.016	11.81	0.015	11.65	0.015	17.57	0.057		

Note: The relevant measured result has the offset with cable loss already.

Test Mode		Mode 2: IEEE 802.11a Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm) (W)			
5260.0	6M	10.30	6.00	16.30	0.043	≤ 24	
5280.0		10.32	6.00	16.32	0.043		
5300.0		10.36	6.00	16.36	0.043		
5320.0		10.44	6.00	16.44	0.044		
5500.0		9.88	6.00	15.88	0.039		
5520.0		9.29	6.00	15.29	0.034		
5540.0		9.27	6.00	15.27	0.034		
5560.0		9.36	6.00	15.36	0.034		
5580.0		9.35	6.00	15.35	0.034		
5660.0		9.29	6.00	15.29	0.034		
5680.0		9.36	6.00	15.36	0.034		
5700.0		9.45	6.00	15.45	0.035		
5260.0	54M	10.27	6.00	16.27	0.042	≤ 24	
5280.0		10.28	6.00	16.28	0.042		
5300.0		10.32	6.00	16.32	0.043		
5320.0		10.41	6.00	16.41	0.044		
5500.0		9.84	6.00	15.84	0.038		
5520.0		9.27	6.00	15.27	0.034		
5540.0		9.25	6.00	15.25	0.034		
5560.0		9.32	6.00	15.32	0.034		
5580.0		9.30	6.00	15.30	0.034		
5660.0		9.26	6.00	15.26	0.034		
5680.0		9.31	6.00	15.31	0.034		
5700.0		9.42	6.00	15.42	0.035		

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

Test Mode		Mode 3: IEEE 802.11ac 20MHz Link Mode				
Frequency (MHz)	Data Rate	Transmit power control			FCC Limit (dBm)	
		ANT-0+1+2+3				
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm)		
5260.0	26M	10.27	12.02	22.29	0.169	
5280.0		10.32	12.02	22.34	0.171	
5300.0		10.38	12.02	22.40	0.174	
5320.0		10.45	12.02	22.47	0.177	
5500.0		10.31	12.02	22.33	0.171	
5520.0		9.60	12.02	21.62	0.145	
5540.0		9.66	12.02	21.68	0.147	
5560.0		9.63	12.02	21.65	0.146	
5580.0		9.61	12.02	21.63	0.146	
5660.0		9.58	12.02	21.60	0.144	
5680.0		9.65	12.02	21.67	0.147	
5700.0		9.20	12.02	21.22	0.132	
5260.0	312M	10.24	12.02	22.26	0.168	
5280.0		10.26	12.02	22.28	0.169	
5300.0		10.34	12.02	22.36	0.172	
5320.0		10.43	12.02	22.45	0.176	
5500.0		10.27	12.02	22.29	0.169	
5520.0		9.57	12.02	21.59	0.144	
5540.0		9.62	12.02	21.64	0.146	
5560.0		9.60	12.02	21.62	0.145	
5580.0		9.58	12.02	21.60	0.145	
5660.0		9.54	12.02	21.56	0.143	
5680.0		9.61	12.02	21.63	0.145	
5700.0		9.15	12.02	21.17	0.131	

Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

Test Mode		Mode 4: IEEE 802.11ac 40MHz Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm) (W)			
5270.0	54M	11.85	12.02	23.87	0.244	≤ 24	
5310.0		11.91	12.02	23.93	0.247		
5510.0		11.54	12.02	23.56	0.227		
5550.0		11.07	12.02	23.09	0.204		
5670.0		9.98	12.02	22.00	0.158		
5270.0		11.80	12.02	23.82	0.241		
5310.0	720M	11.87	12.02	23.89	0.245	≤ 24	
5510.0		11.52	12.02	23.54	0.226		
5550.0		11.03	12.02	23.05	0.202		
5670.0		9.96	12.02	21.98	0.158		

Test Mode		Mode 5: IEEE 802.11ac 80MHz Link Mode					
Frequency (MHz)	Data Rate	Transmit power control				FCC Limit (dBm)	
		ANT-0+1+2+3					
		Max. Outup Power (dBm)	Directional Gain (dBi)	E.I.R.P. (dBm) (W)			
5290.0	117.2M	11.54	12.02	23.56	0.227	≤ 24	
5530.0		11.82	12.02	23.84	0.242		
5290.0		11.51	12.02	23.53	0.225		
5530.0		11.78	12.02	23.80	0.240		

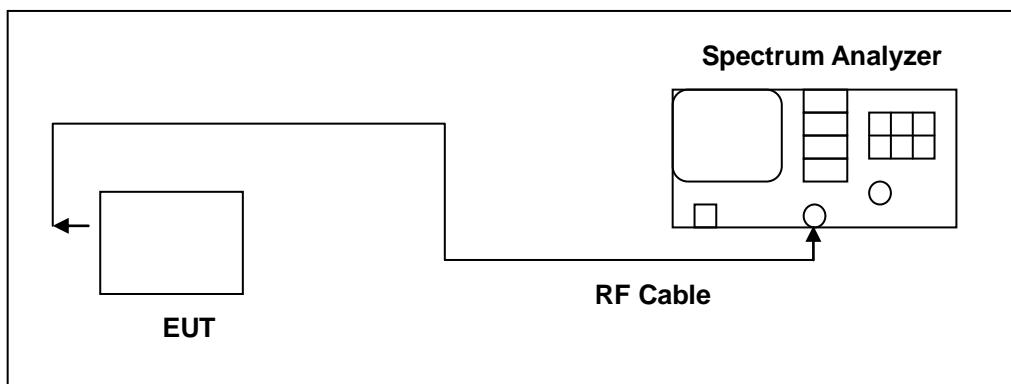
Note: EIRP(dBm)=Conducted power(dBm) + Directional Gain (dBi)

4.5. 26dB RF Bandwidth Measurement

■ Limit

N/A

■ Test Setup



■ Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2016	1 year
Microwave Cable	EMCI	EMC104-SM-SM-1 500	140303	02/23/2016	1 year
Test Site	ATL	TE05	TE05	N.C.R.	-----

Note: N.C.R. = No Calibration Request.

■ Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01r02, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	>26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

■ Test Result

Module : QCA9984 (EW-7955MAC)

Test Mode	Mode 2: IEEE 802.11a Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5260.0	19.530	19.400	18.960	19.240
5280.0	19.030	19.400	18.510	19.350
5320.0	19.510	18.790	18.930	19.070
5500.0	18.680	18.620	19.570	18.620
5560.0	18.790	18.610	18.970	18.340
5700.0	19.300	19.410	19.340	18.320

Test Mode	Mode 3: IEEE 802.11ac 20MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5260.0	19.840	19.960	19.860	20.280
5280.0	20.240	20.350	20.340	20.370
5320.0	19.850	19.960	20.110	20.090
5500.0	20.140	19.820	19.980	19.830
5560.0	19.640	19.600	19.610	19.340
5700.0	20.650	20.100	19.540	19.740

Test Mode	Mode 4: IEEE 802.11ac 40MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5270.0	40.390	40.790	39.800	40.000
5310.0	40.470	39.850	39.780	39.910
5510.0	39.420	39.560	39.990	39.700
5550.0	39.790	39.620	40.010	39.870
5670.0	39.900	39.780	39.710	40.030

Test Mode	Mode 5: IEEE 802.11ac 80MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5290.0	80.220	79.960	79.600	79.900
5530.0	79.530	79.460	80.290	79.430

Module : QCA9990 (EW-7944MAC)

Test Mode	Mode 2: IEEE 802.11a Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5260.0	18.880	19.200	19.170	18.740
5280.0	19.010	19.240	19.190	18.660
5320.0	18.920	19.060	19.180	18.850
5500.0	18.960	18.980	18.890	18.890
5560.0	19.080	18.820	18.570	18.940
5700.0	19.290	19.200	18.500	18.670

Test Mode	Mode 3: IEEE 802.11ac 20MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5260.0	19.650	19.970	20.440	19.750
5280.0	19.660	20.250	20.110	19.820
5320.0	19.670	20.070	20.220	19.740
5500.0	19.930	20.070	20.050	19.800
5560.0	19.950	20.010	19.530	19.860
5700.0	19.940	19.890	19.420	19.840

Test Mode	Mode 4: IEEE 802.11ac 40MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5270.0	40.020	40.200	39.820	39.990
5310.0	40.050	39.870	39.820	40.180
5510.0	39.880	40.240	40.100	39.990
5550.0	39.640	40.130	39.970	39.740
5670.0	39.670	39.980	39.930	39.710

Test Mode	Mode 5: IEEE 802.11ac 80MHz Link Mode			
Frequency (MHz)	26dB Bandwidth (MHz)			
	ANT-0	ANT-1	ANT-2	ANT-3
5290.0	85.410	86.470	83.950	85.480
5530.0	82.900	83.850	84.360	84.980

■ Test Graphs

Module : QCA9984 (EW-7955MAC)

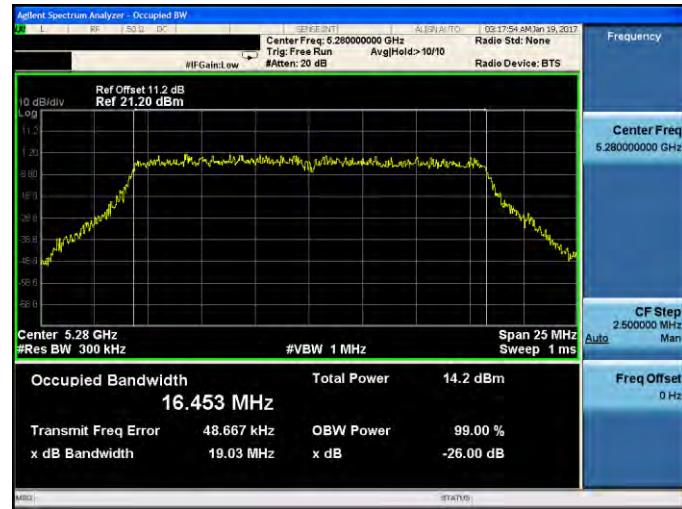
Mode 2: IEEE 802.11a Link Mode

ANT-0

5260 MHz

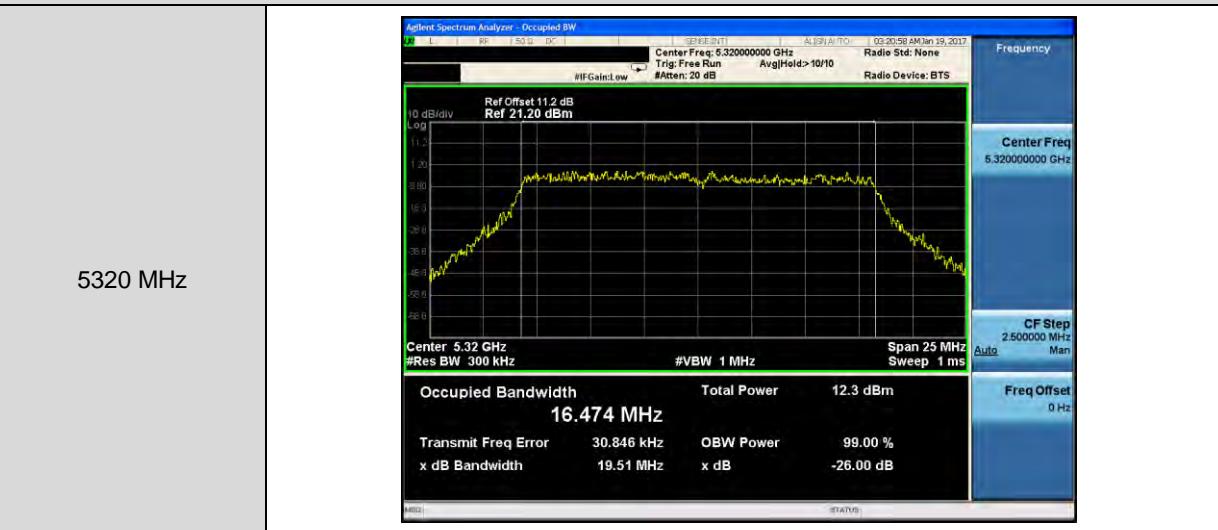


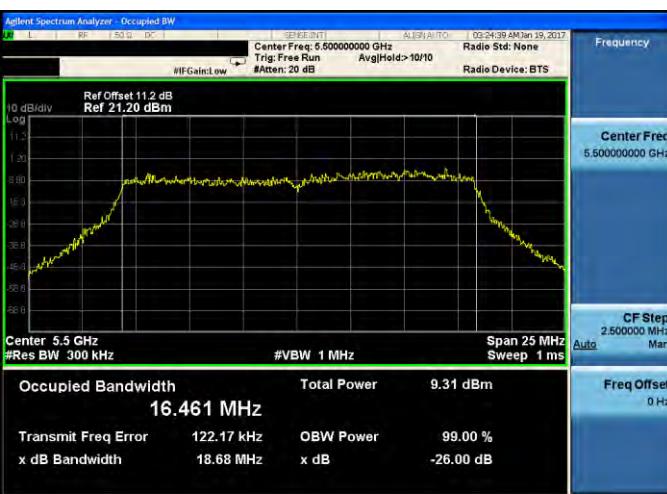
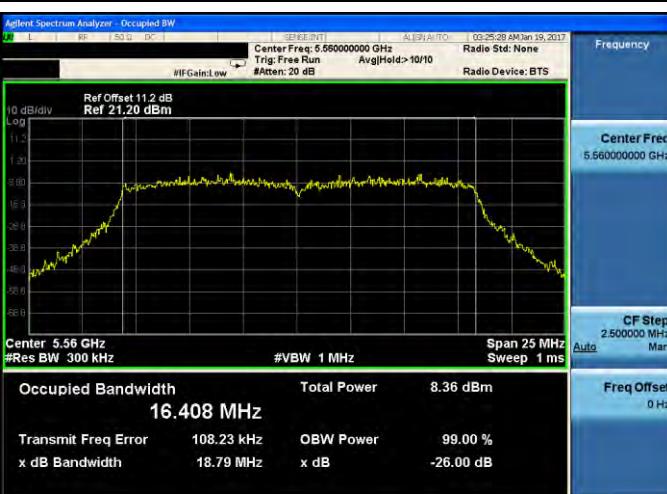
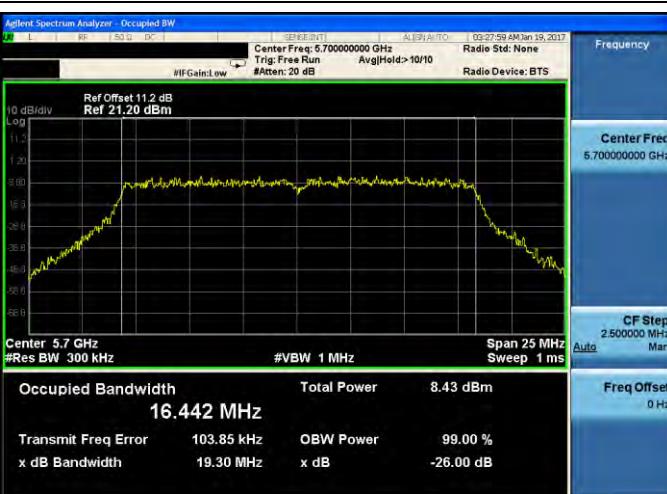
5280 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-0



Mode 2: IEEE 802.11a Link Mode	
ANT-0	
5500	<p>Agilent Spectrum Analyzer - Occupied BW</p>  <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center 5.5 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.461 MHz</p> <p>Total Power 9.31 dBm</p> <p>Transmit Freq Error 122.17 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 18.68 MHz x dB -26.00 dB</p>
5560	<p>Agilent Spectrum Analyzer - Occupied BW</p>  <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center 5.56 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.408 MHz</p> <p>Total Power 8.36 dBm</p> <p>Transmit Freq Error 108.23 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 18.79 MHz x dB -26.00 dB</p>
5700	<p>Agilent Spectrum Analyzer - Occupied BW</p>  <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center 5.7 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <p>Occupied Bandwidth 16.442 MHz</p> <p>Total Power 8.43 dBm</p> <p>Transmit Freq Error 103.85 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 19.30 MHz x dB -26.00 dB</p>

Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-0

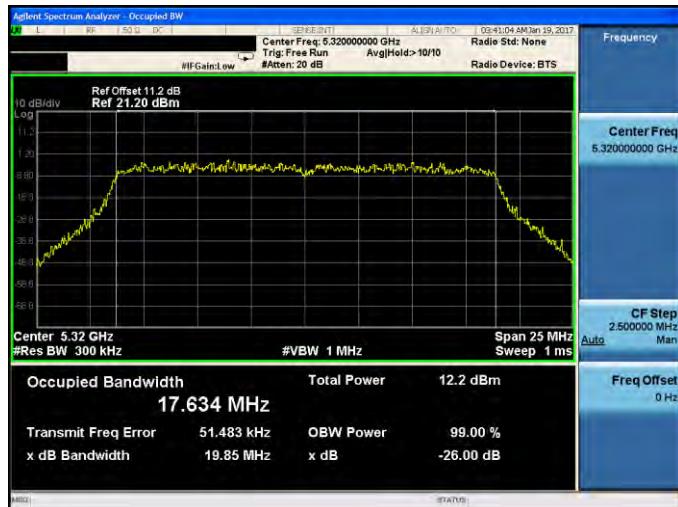
5260 MHz



5280 MHz



5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-0

5500 MHz



5560 MHz



5700 MHz



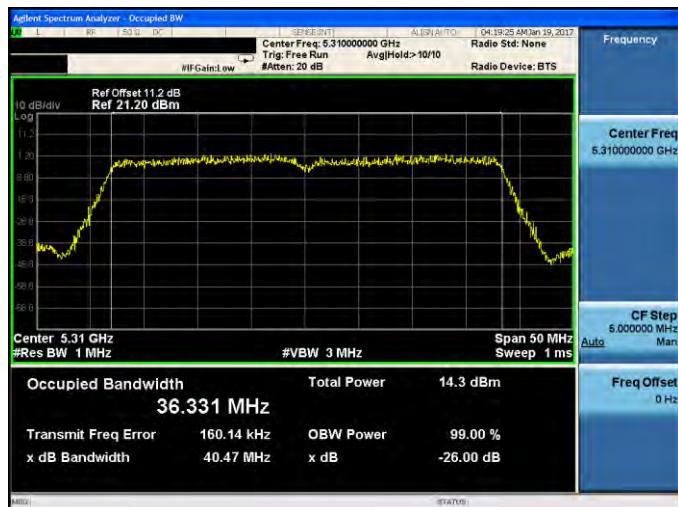
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-0

5270 MHz



5310 MHz



5510 MHz



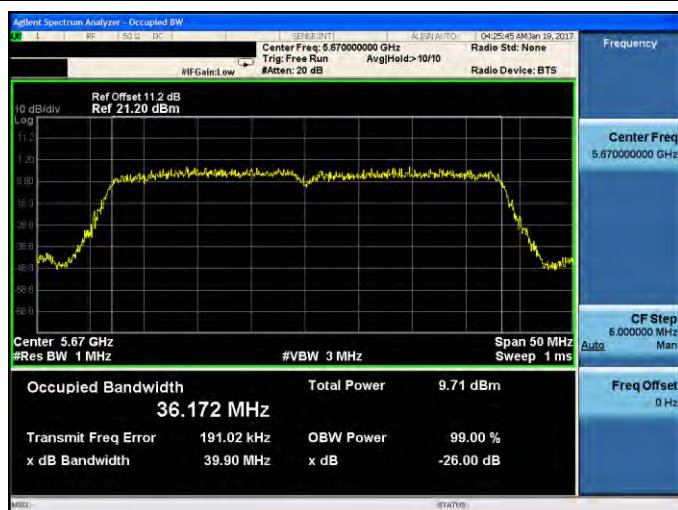
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-0

5550 MHz



5670 MHz



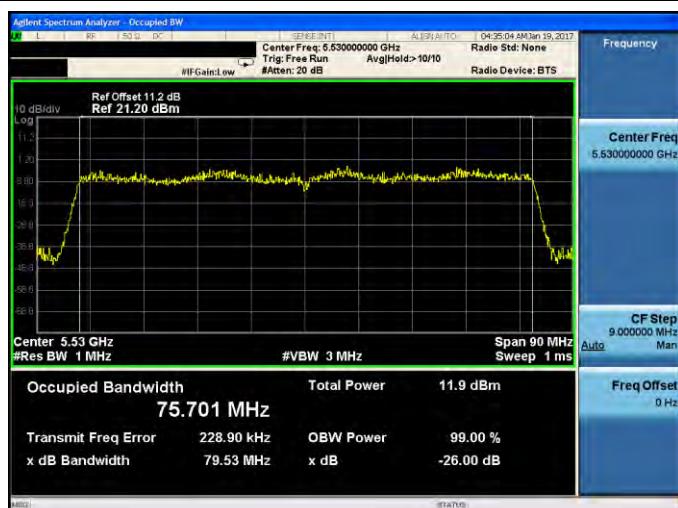
Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-0

5290 MHz



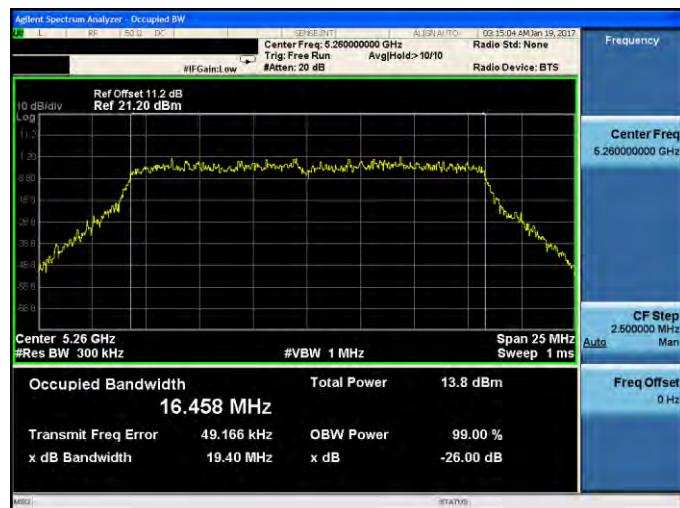
5530 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-1

5260 MHz



5280 MHz



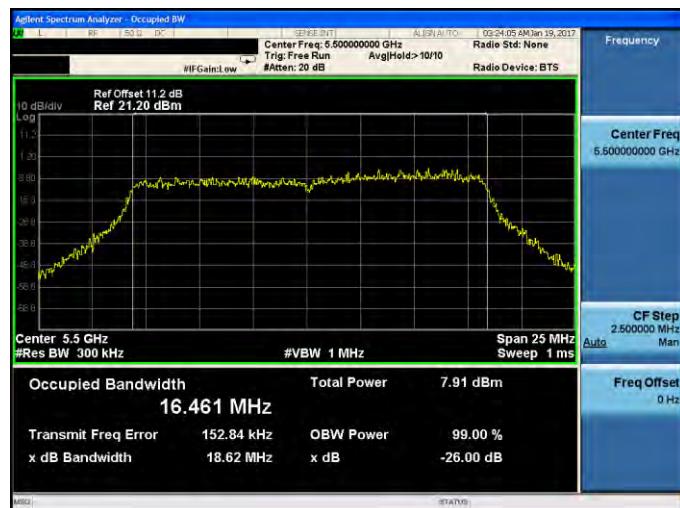
5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-1

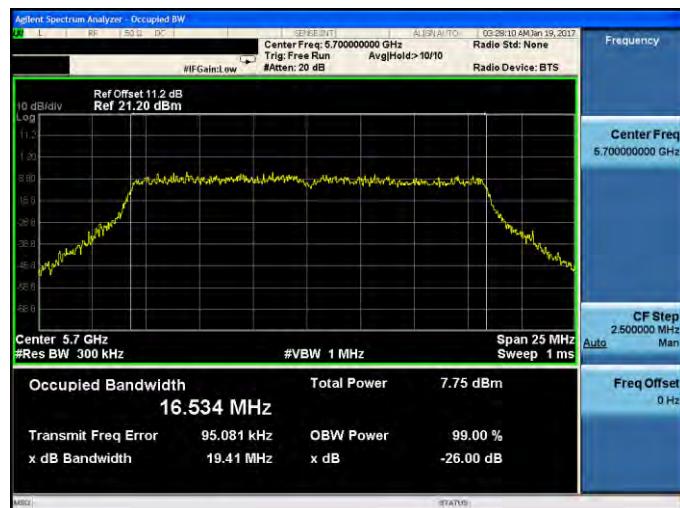
5500 MHz



5560 MHz



5700 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-1

5260 MHz



5280 MHz



5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-1

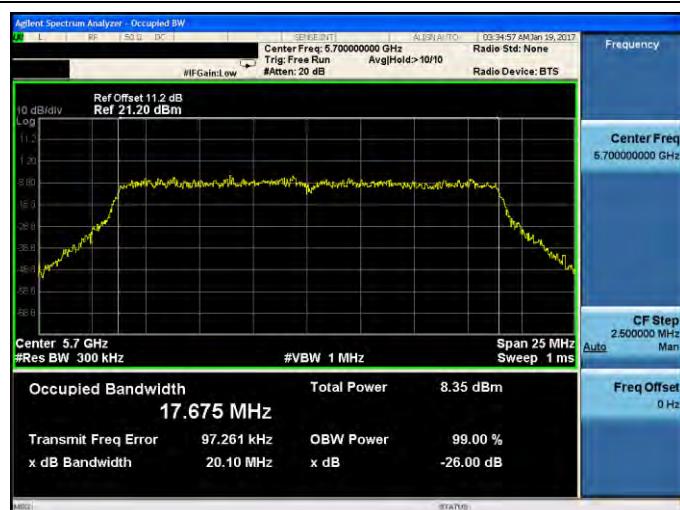
5500 MHz



5560 MHz



5700 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-1

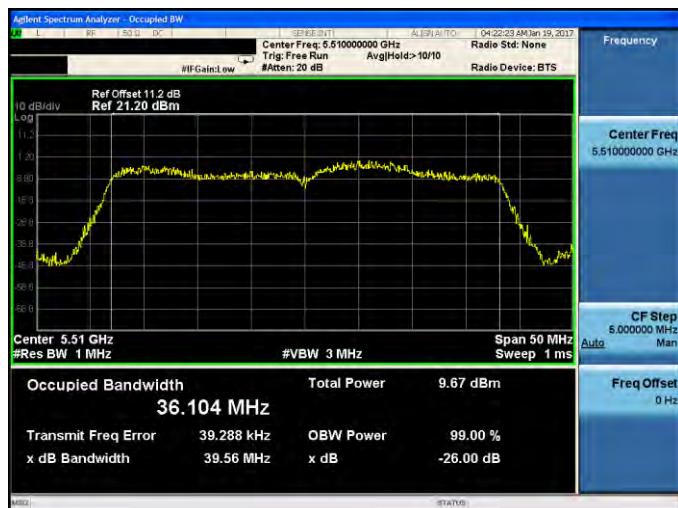
5270 MHz



5310 MHz



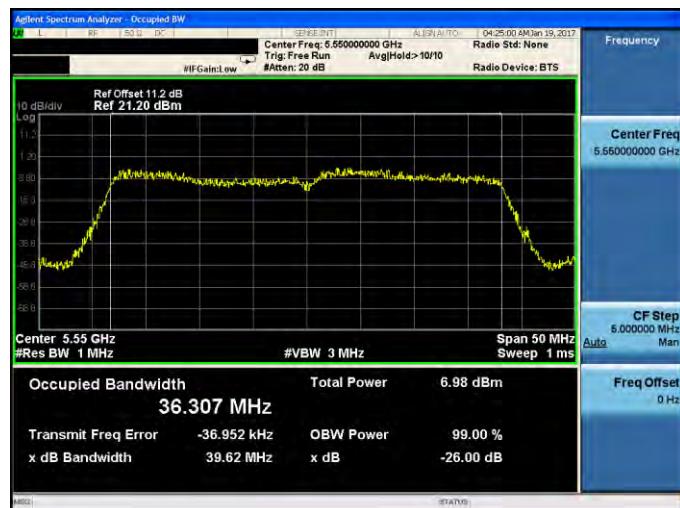
5510 MHz



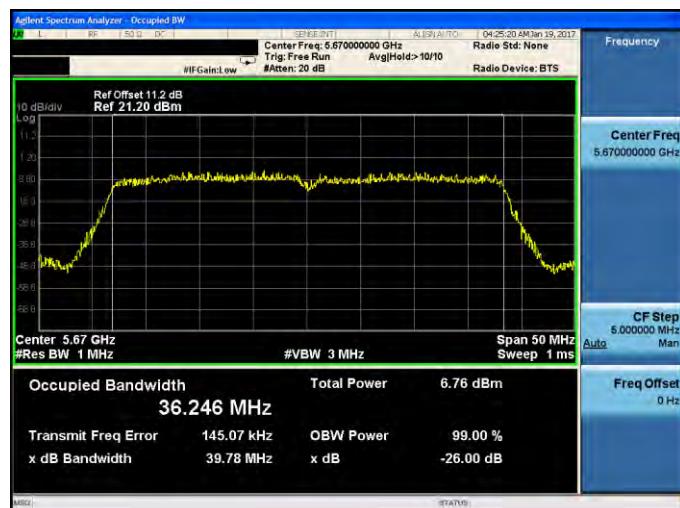
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-1

5550 MHz



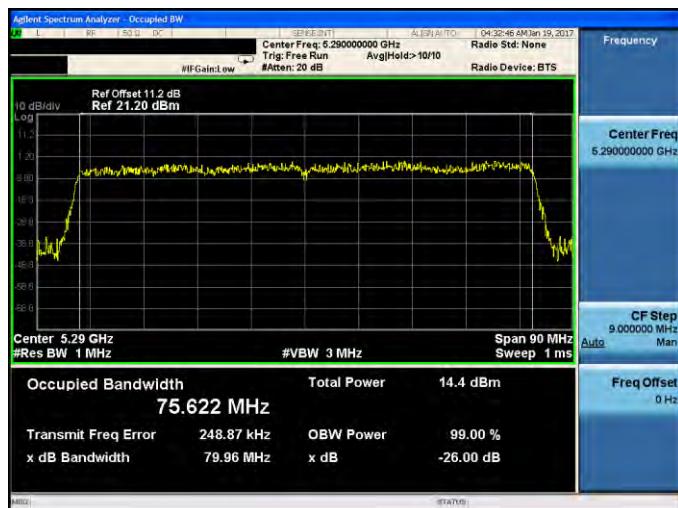
5670 MHz



Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-1

5290 MHz



5530 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-2

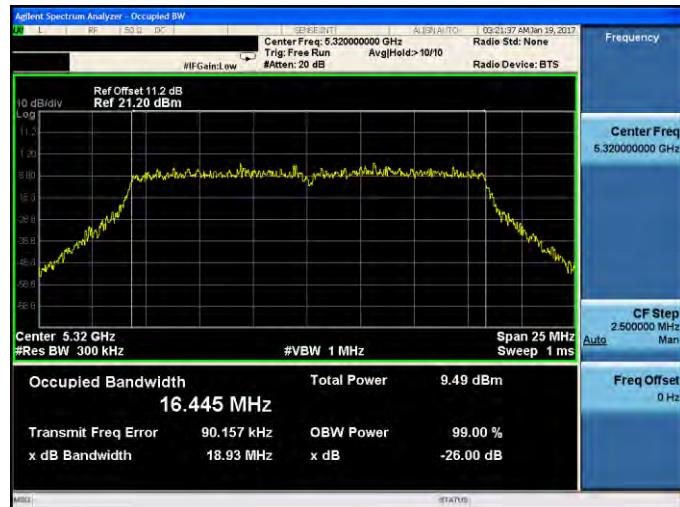
5260 MHz



5280 MHz



5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-2

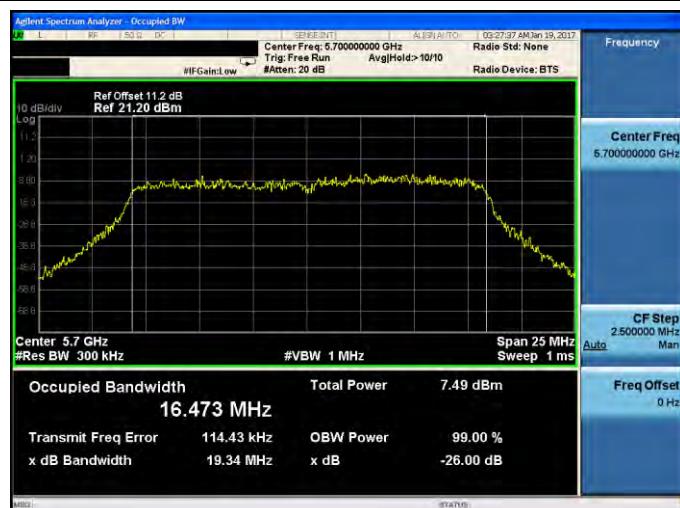
5500 MHz



5560 MHz



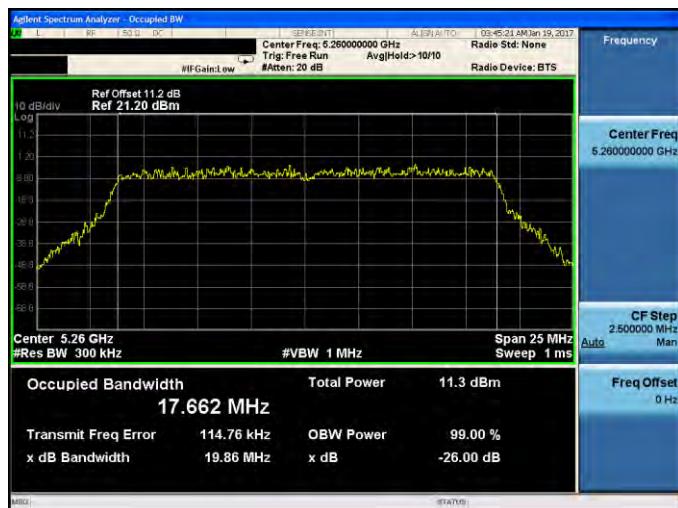
5700 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-2

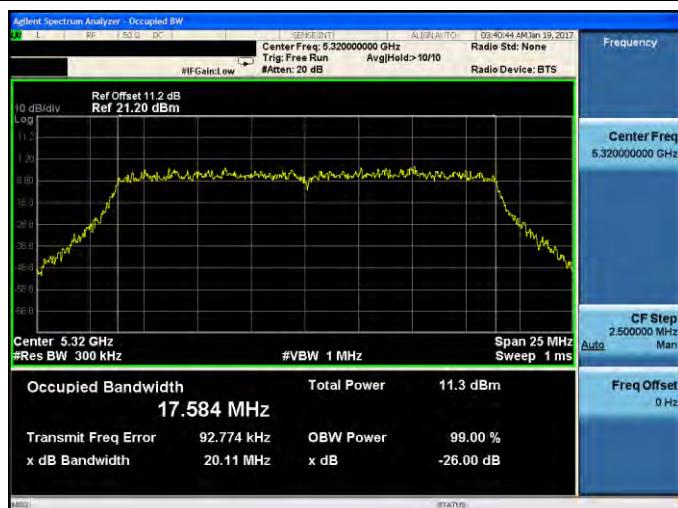
5260 MHz



5280 MHz



5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-2

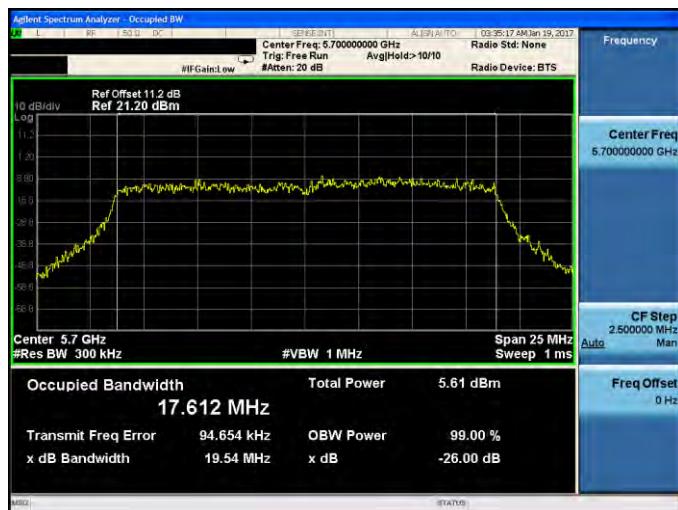
5500 MHz



5560 MHz



5700 MHz



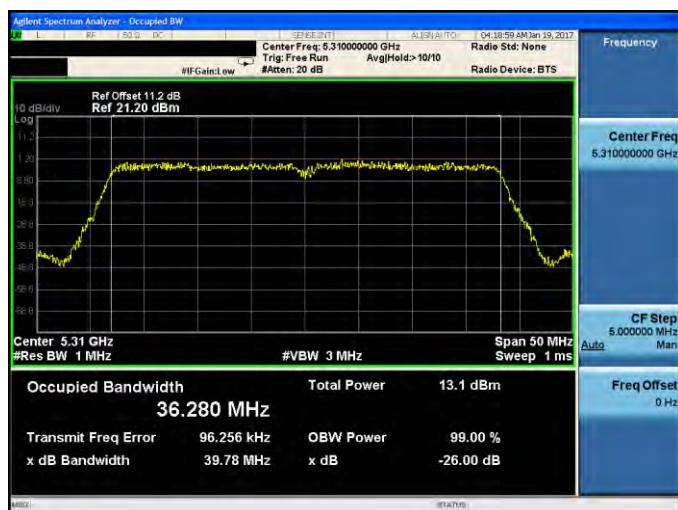
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-2

5270 MHz



5310 MHz



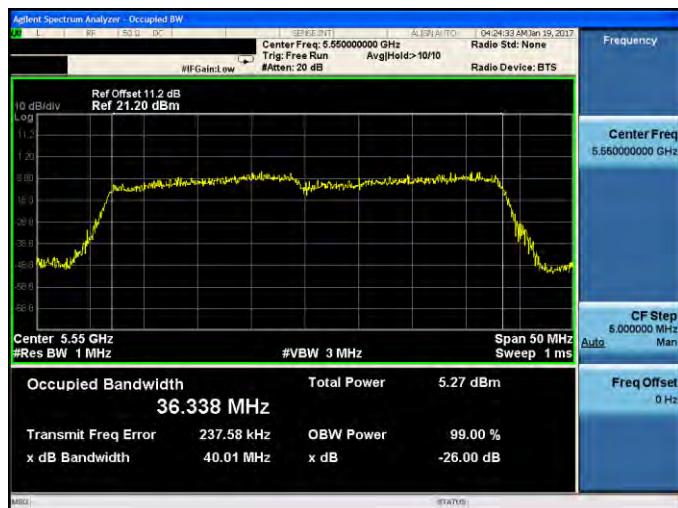
5510 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-2

5550 MHz



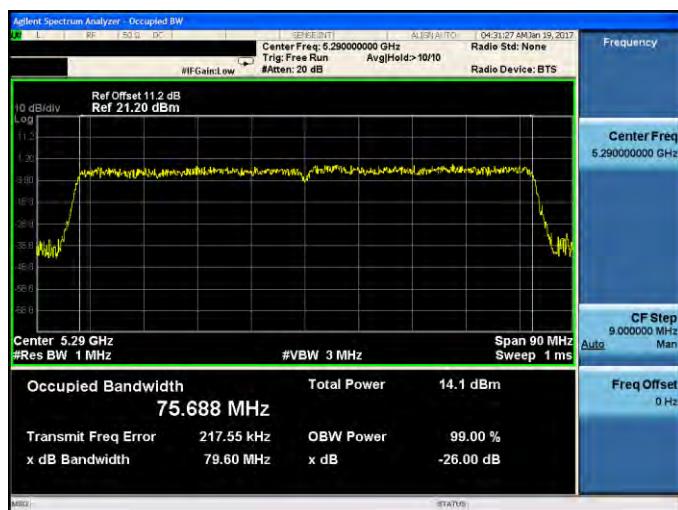
5670 MHz



Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-2

5290 MHz



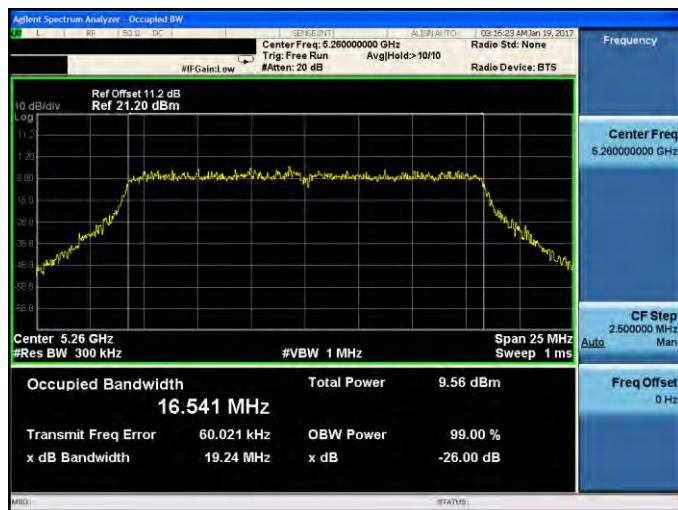
5530 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-3

5260 MHz



5280 MHz



5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-3

5500 MHz



5560 MHz



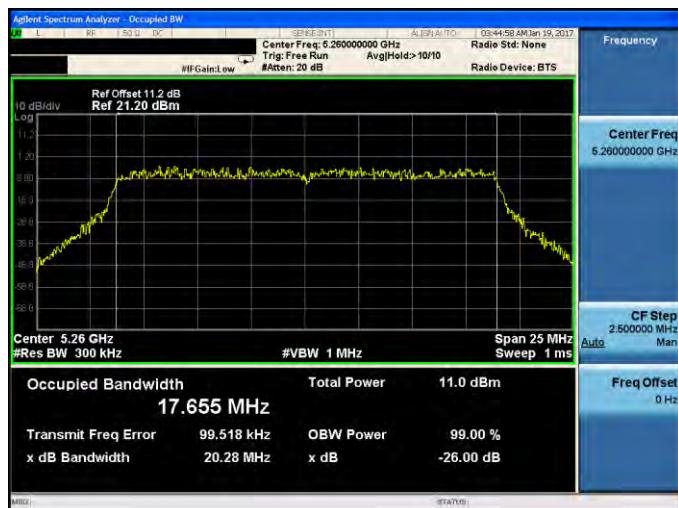
5700 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-3

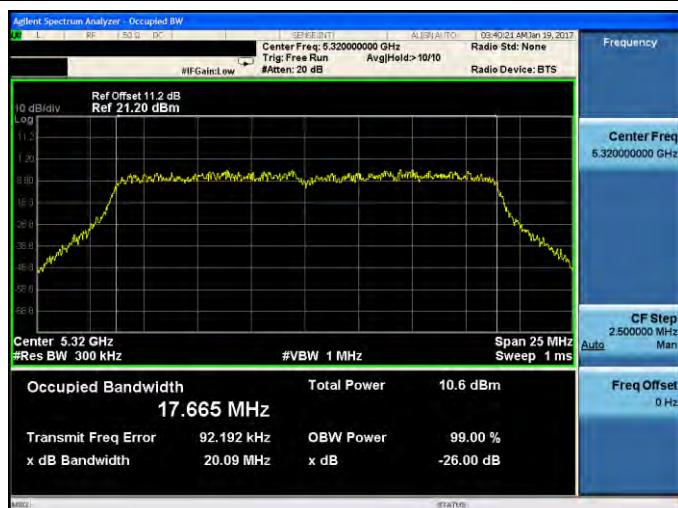
5260 MHz



5280 MHz



5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-3

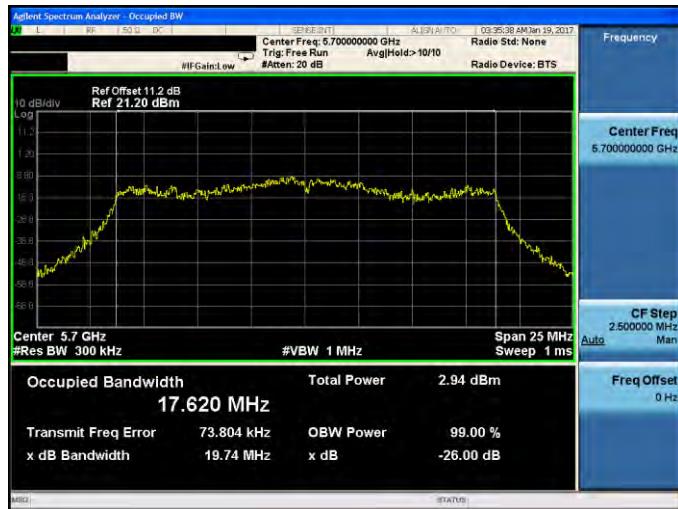
5500 MHz



5560 MHz



5700 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-3

5270 MHz



5310 MHz



5510 MHz



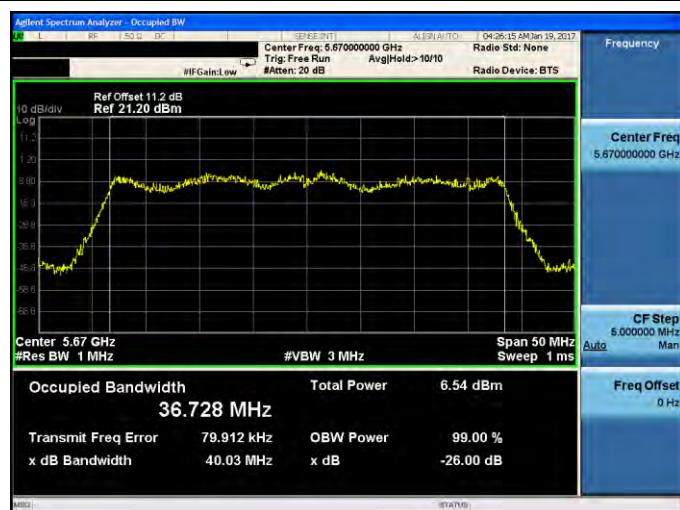
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-3

5550 MHz



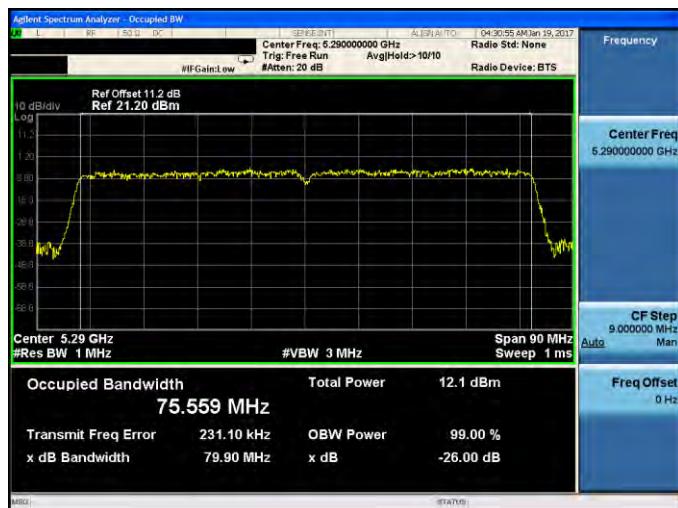
5670 MHz



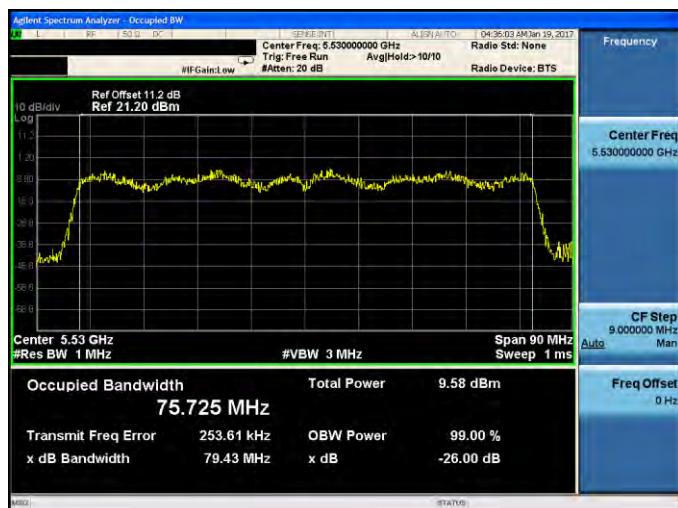
Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-3

5290 MHz



5530 MHz

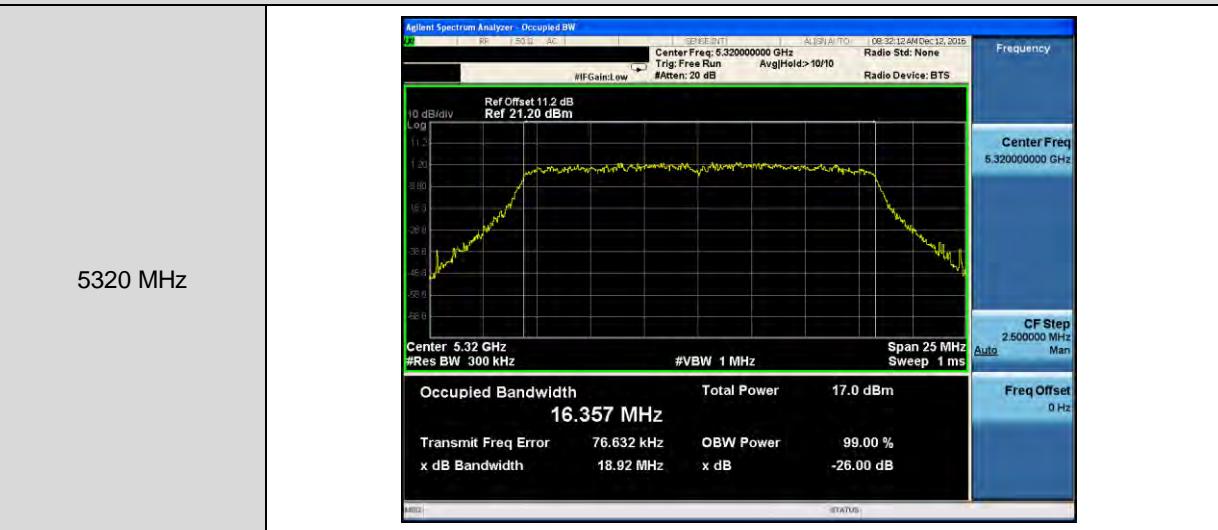


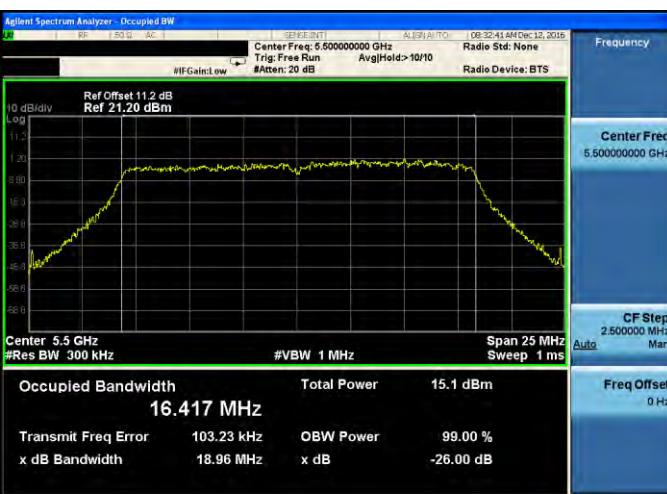
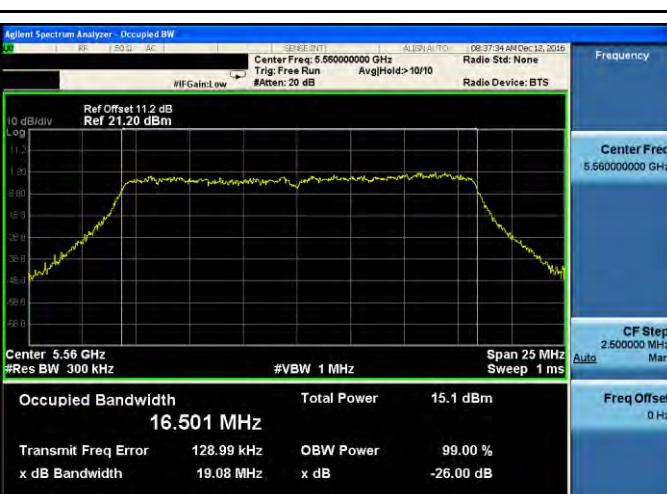
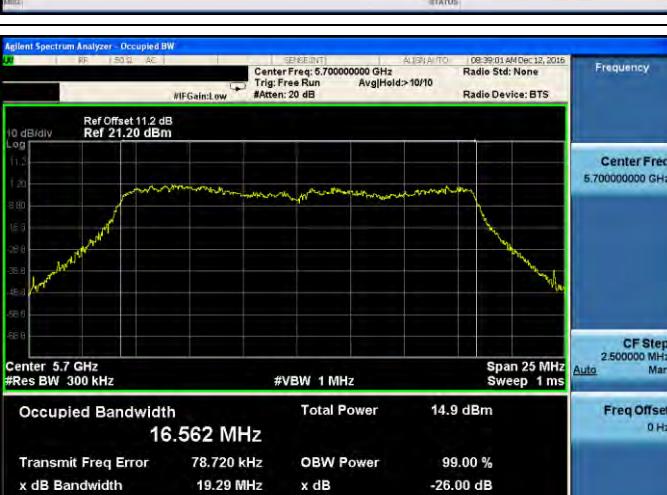
Module : QCA9990 (EW-7944MAC)

Mode 2: IEEE 802.11a Link Mode							
ANT-0							
5260 MHz	<p>Spectrum Analysis - Occupied BW</p>  <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth 16.351 MHz</td> <td>Total Power 16.7 dBm</td> </tr> <tr> <td>Transmit Freq Error 66.295 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth 18.88 MHz</td> <td>x dB -26.00 dB</td> </tr> </table>	Occupied Bandwidth 16.351 MHz	Total Power 16.7 dBm	Transmit Freq Error 66.295 kHz	OBW Power 99.00 %	x dB Bandwidth 18.88 MHz	x dB -26.00 dB
Occupied Bandwidth 16.351 MHz	Total Power 16.7 dBm						
Transmit Freq Error 66.295 kHz	OBW Power 99.00 %						
x dB Bandwidth 18.88 MHz	x dB -26.00 dB						
5280 MHz	<p>Spectrum Analysis - Occupied BW</p>  <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center 5.28 GHz #Res BW 300 kHz #VBW 1 MHz Span 25 MHz Sweep 1 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth 16.345 MHz</td> <td>Total Power 16.9 dBm</td> </tr> <tr> <td>Transmit Freq Error 44.346 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth 19.01 MHz</td> <td>x dB -26.00 dB</td> </tr> </table>	Occupied Bandwidth 16.345 MHz	Total Power 16.9 dBm	Transmit Freq Error 44.346 kHz	OBW Power 99.00 %	x dB Bandwidth 19.01 MHz	x dB -26.00 dB
Occupied Bandwidth 16.345 MHz	Total Power 16.9 dBm						
Transmit Freq Error 44.346 kHz	OBW Power 99.00 %						
x dB Bandwidth 19.01 MHz	x dB -26.00 dB						

Mode 2: IEEE 802.11a Link Mode

ANT-0

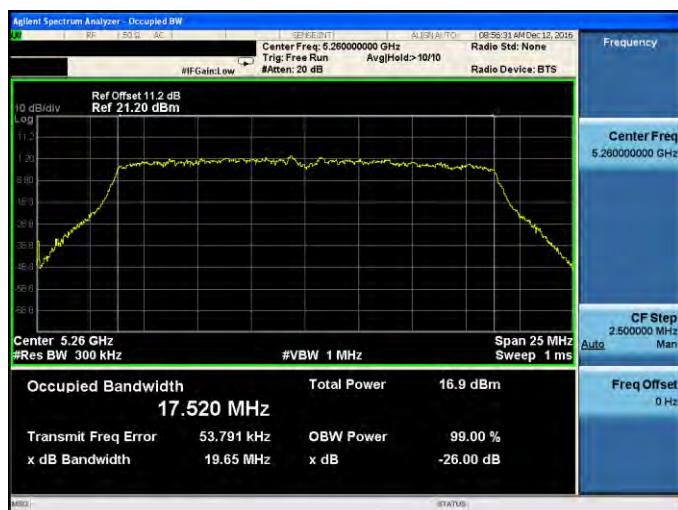


Mode 2: IEEE 802.11a Link Mode	
ANT-0	
5500	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center Freq: 5.500000000 GHz ALEn AUTO 09:32:41 AM Dec 12, 2015</p> <p>Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>#IFGain:Low #Atten: 20 dB</p> <p>Frequency</p> <p>Center Freq 5.500000000 GHz</p> <p>CF Step 2.500000 MHz Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth Total Power 15.1 dBm 16.417 MHz</p> <p>Transmit Freq Error 103.23 kHz OBW Power 99.00 % x dB Bandwidth 18.96 MHz x dB -26.00 dB</p>
5560	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center Freq: 5.560000000 GHz ALEn AUTO 09:37:34 AM Dec 12, 2015</p> <p>Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>#IFGain:Low #Atten: 20 dB</p> <p>Frequency</p> <p>Center Freq 5.560000000 GHz</p> <p>CF Step 2.500000 MHz Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth Total Power 15.1 dBm 16.501 MHz</p> <p>Transmit Freq Error 128.99 kHz OBW Power 99.00 % x dB Bandwidth 19.08 MHz x dB -26.00 dB</p>
5700	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Ref Offset 11.2 dB Ref 21.20 dBm</p> <p>Center Freq: 5.700000000 GHz ALEn AUTO 09:39:01 AM Dec 12, 2015</p> <p>Trig: Free Run Avg Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>#IFGain:Low #Atten: 20 dB</p> <p>Frequency</p> <p>Center Freq 5.700000000 GHz</p> <p>CF Step 2.500000 MHz Man</p> <p>Freq Offset 0 Hz</p>  <p>Occupied Bandwidth Total Power 14.9 dBm 16.562 MHz</p> <p>Transmit Freq Error 78.720 kHz OBW Power 99.00 % x dB Bandwidth 19.29 MHz x dB -26.00 dB</p>

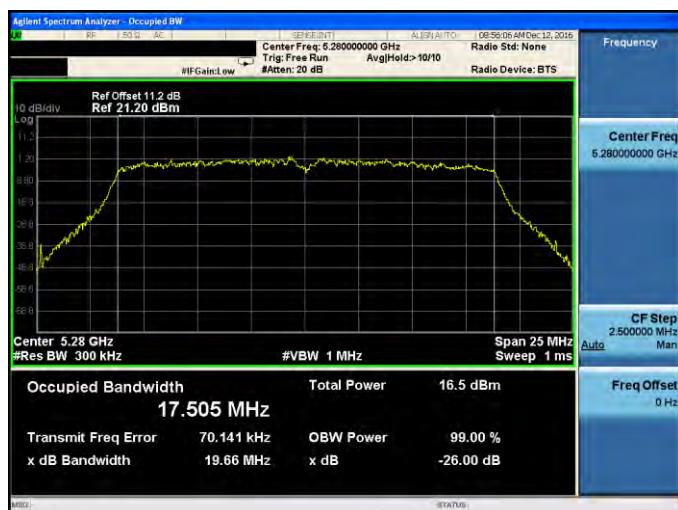
Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-0

5260 MHz



5280 MHz



5320 MHz



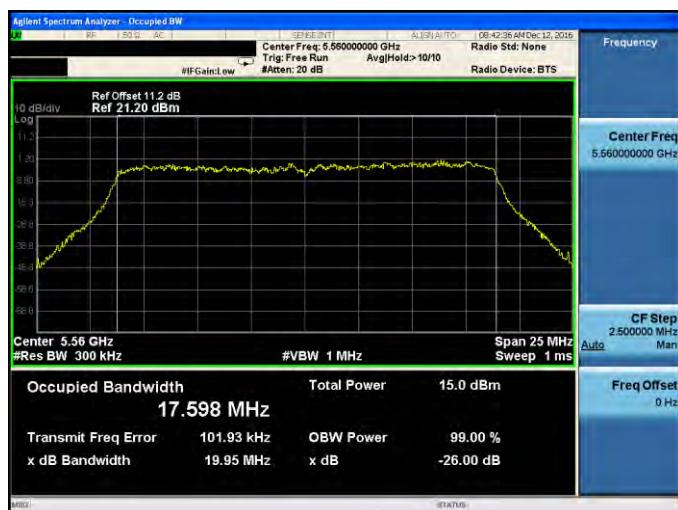
Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-0

5500 MHz



5560 MHz



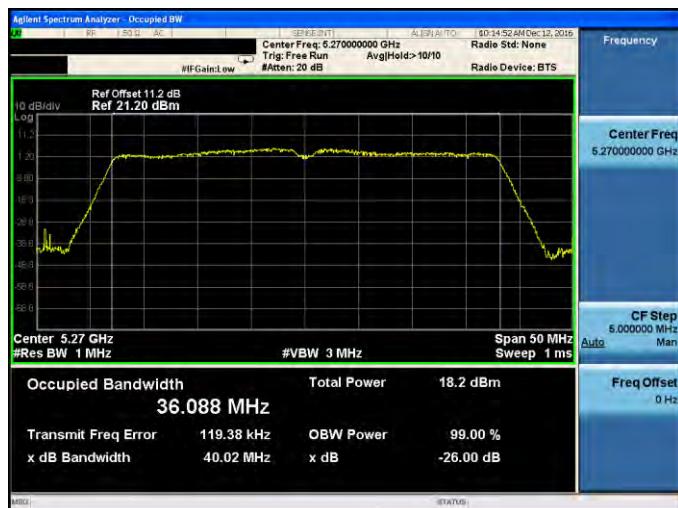
5700 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-0

5270 MHz



5310 MHz



5510 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-0

5550 MHz



5670 MHz



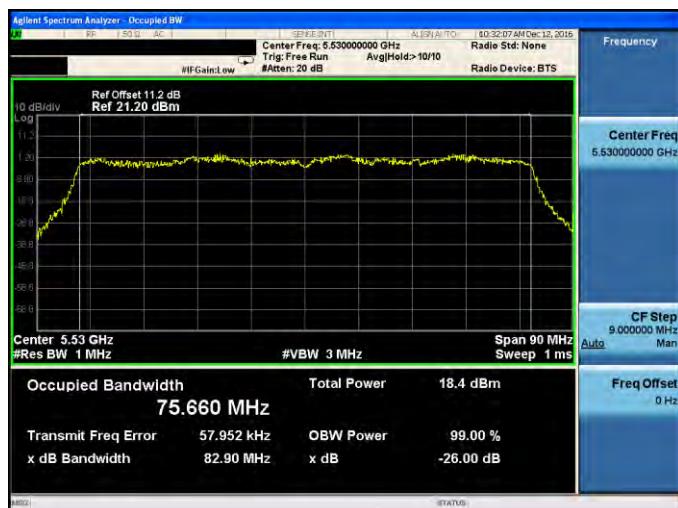
Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-0

5290 MHz



5530 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-1

5260 MHz



5280 MHz



5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-1

5500 MHz



5560 MHz



5700 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-1

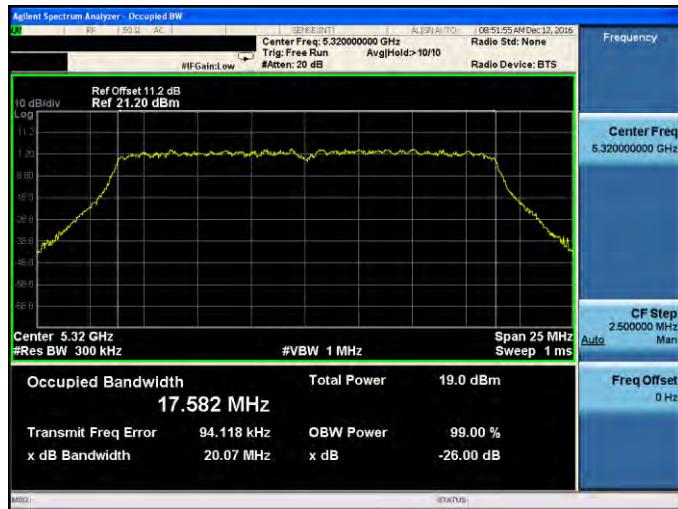
5260 MHz



5280 MHz



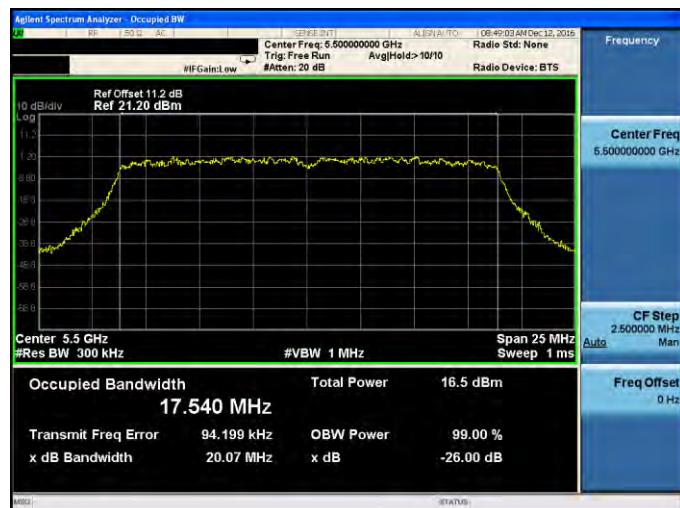
5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-1

5500 MHz



5560 MHz



5700 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-1

5270 MHz



5310 MHz



5510 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-1

5550 MHz



5670 MHz



Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-1

5290 MHz



5530 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-2

5260 MHz



5280 MHz



5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-2

5500 MHz



5560 MHz



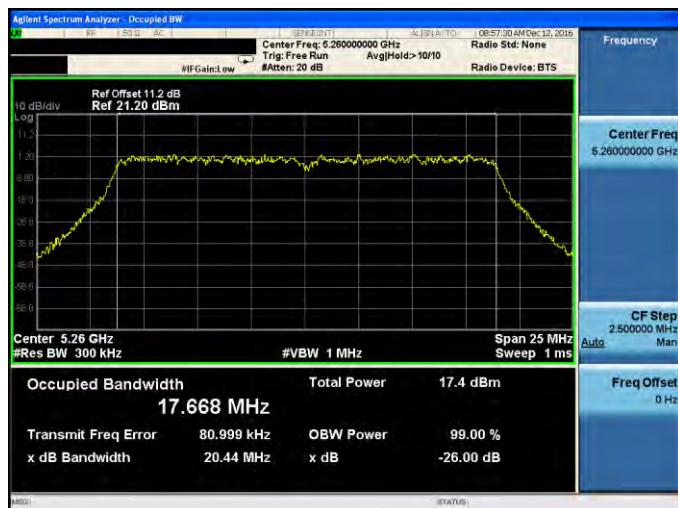
5700 MHz



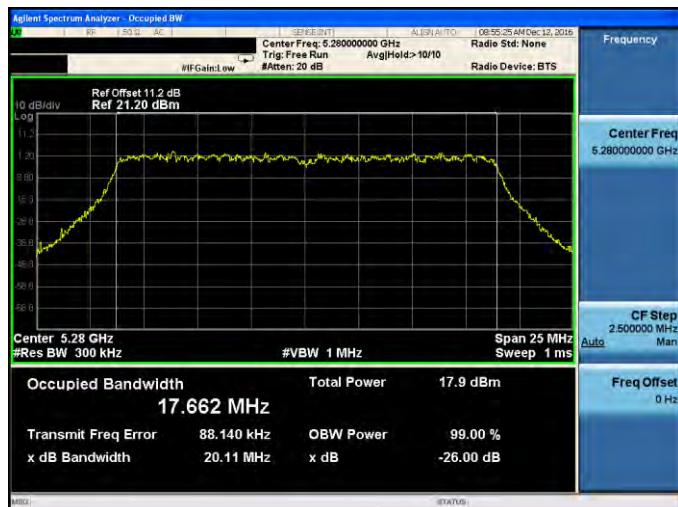
Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-2

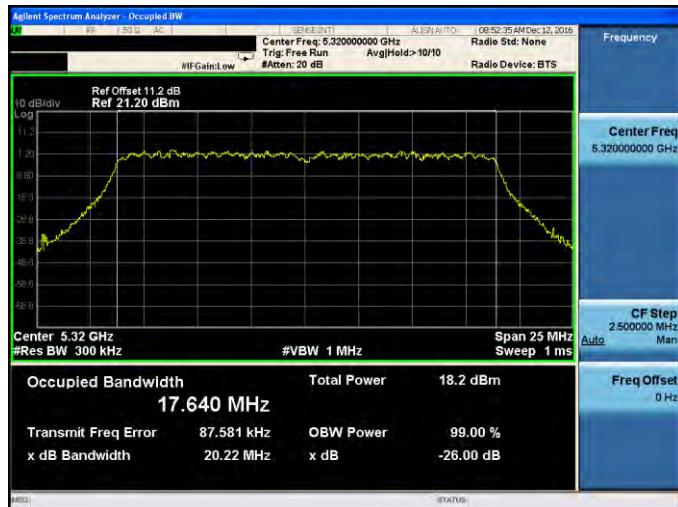
5260 MHz



5280 MHz



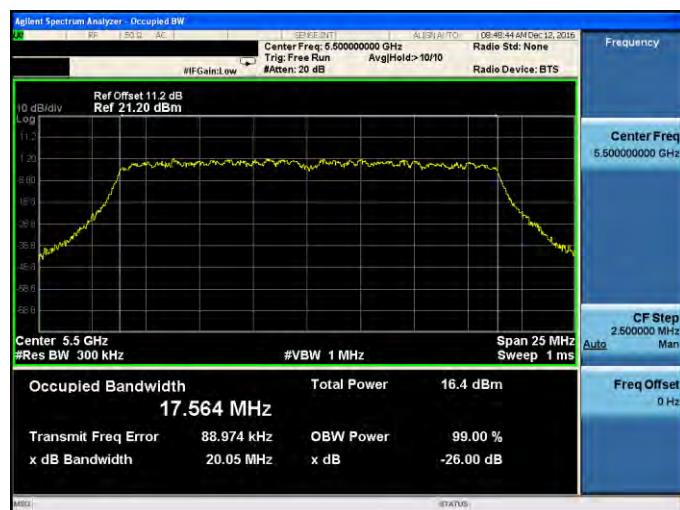
5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-2

5500 MHz



5560 MHz



5700 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-2

5270 MHz



5310 MHz



5510 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-2

5550 MHz



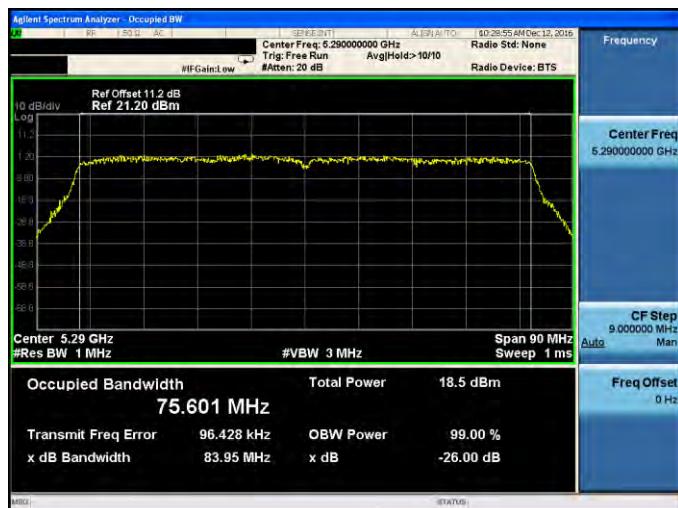
5670 MHz



Mode 5: IEEE 802.11ac 80MHz Link Mode

ANT-2

5290 MHz



5530 MHz



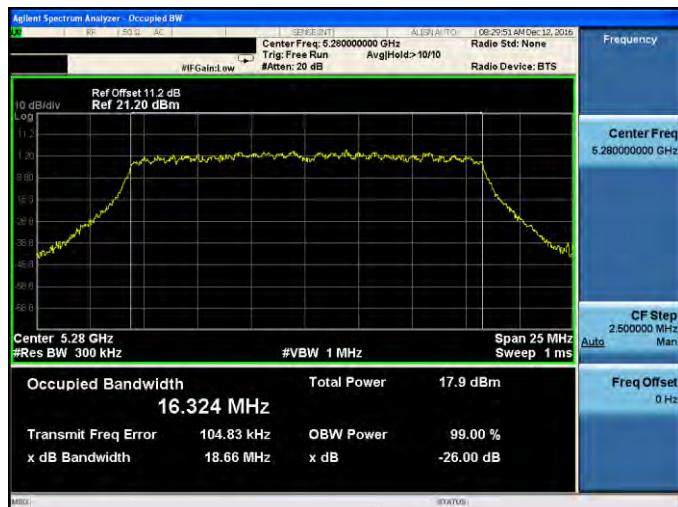
Mode 2: IEEE 802.11a Link Mode

ANT-3

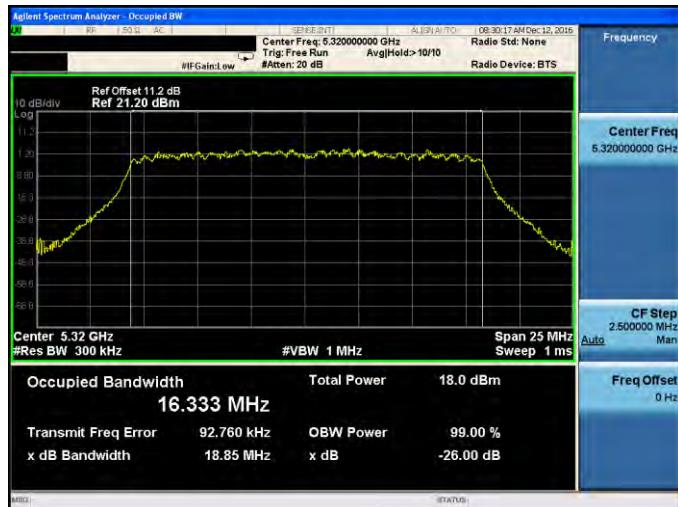
5260 MHz



5280 MHz



5320 MHz



Mode 2: IEEE 802.11a Link Mode

ANT-3

5500 MHz



5560 MHz



5700 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-3

5260 MHz



5280 MHz



5320 MHz



Mode 3: IEEE 802.11ac 20MHz Link Mode

ANT-3

5500 MHz



5560 MHz



5700 MHz



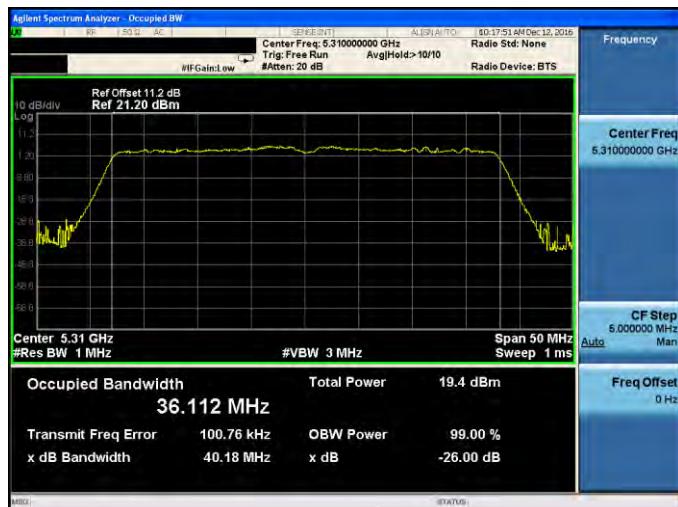
Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-3

5270 MHz



5310 MHz



5510 MHz



Mode 4: IEEE 802.11ac 40MHz Link Mode

ANT-3

5550 MHz



5670 MHz

