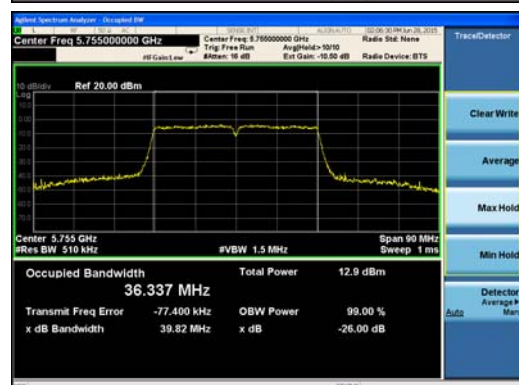
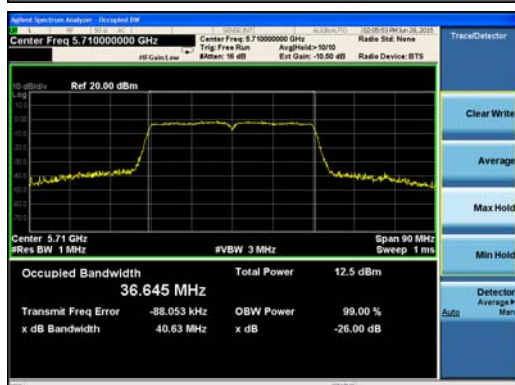
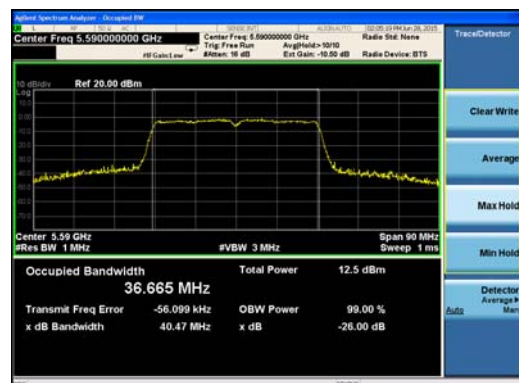
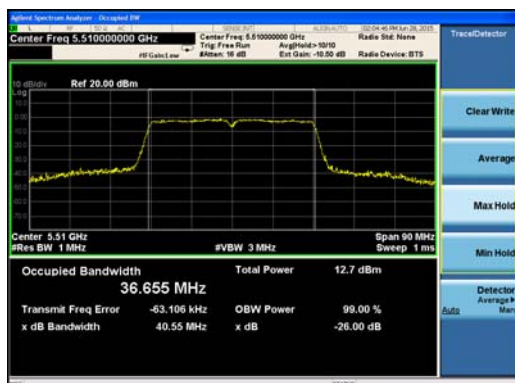
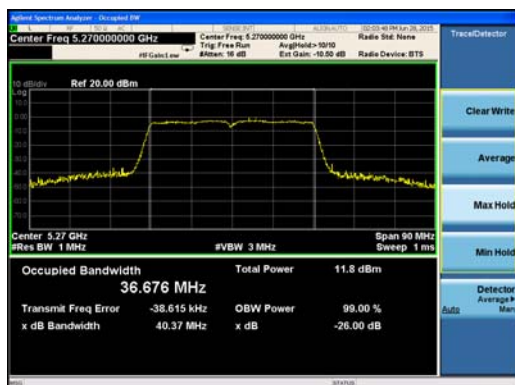
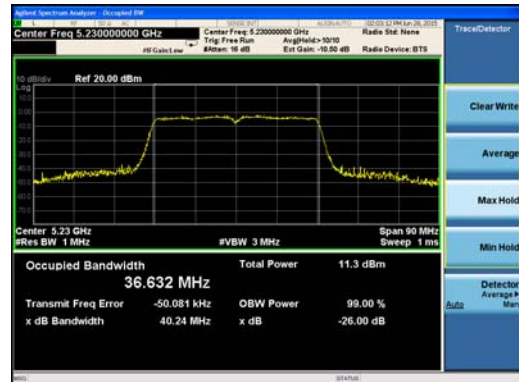
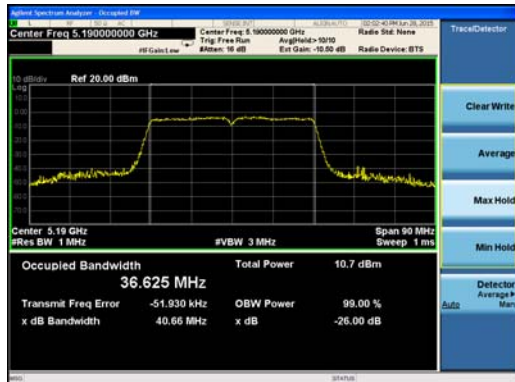
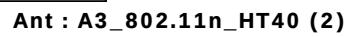


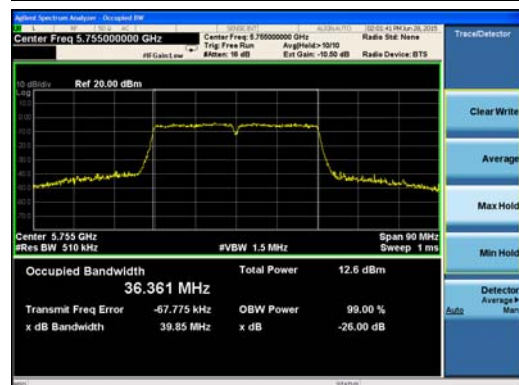
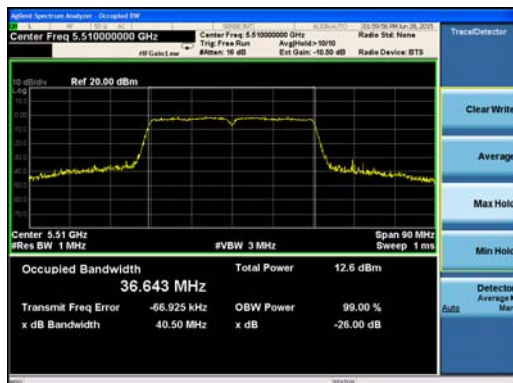
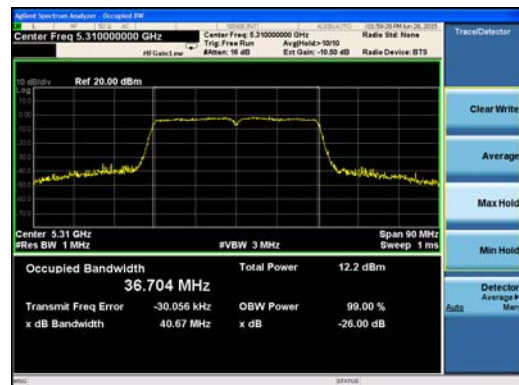
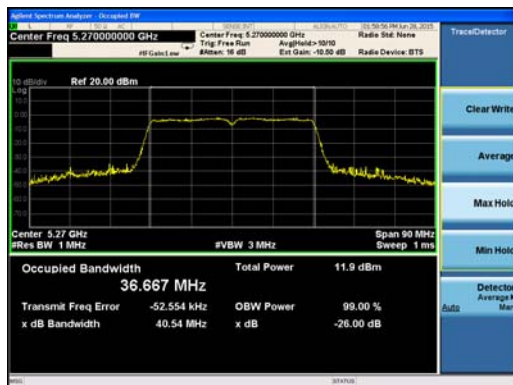
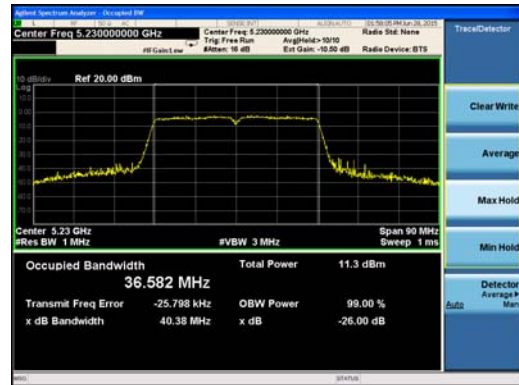
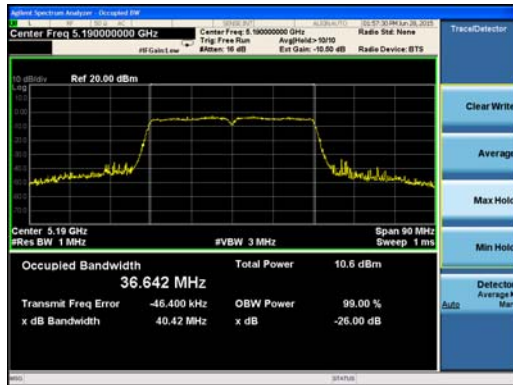


Ant : A3_802.11n_HT40 (1)



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Ant : A3_802.11ac_VHT40 (1)



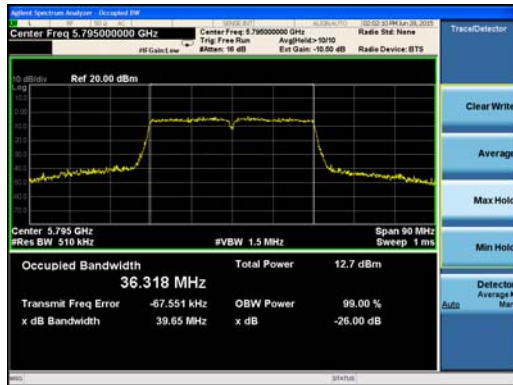
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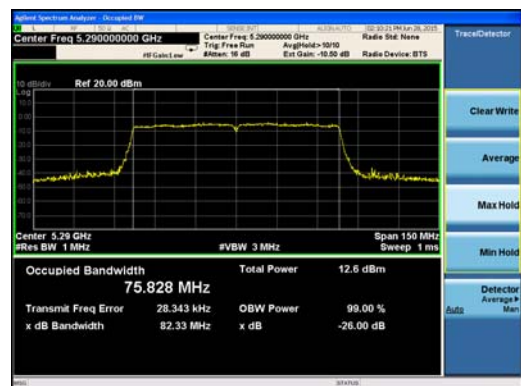
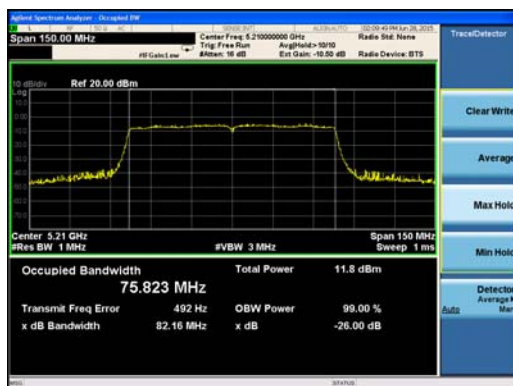
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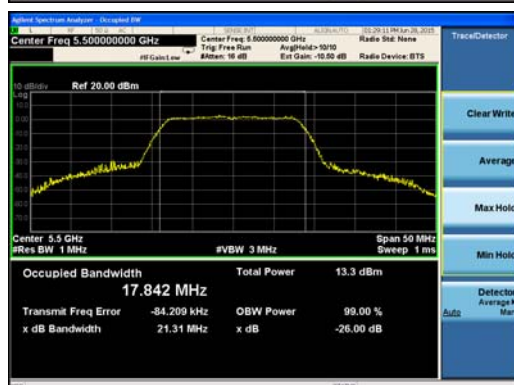
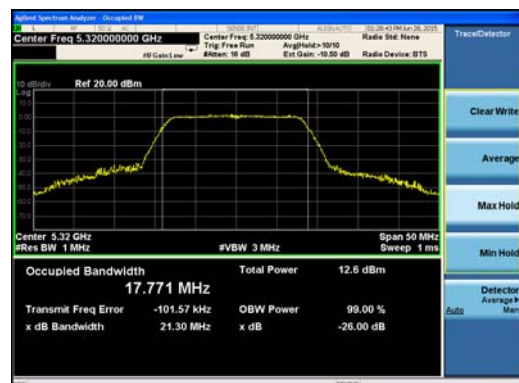
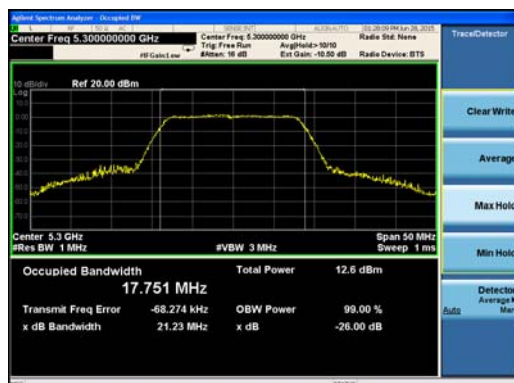
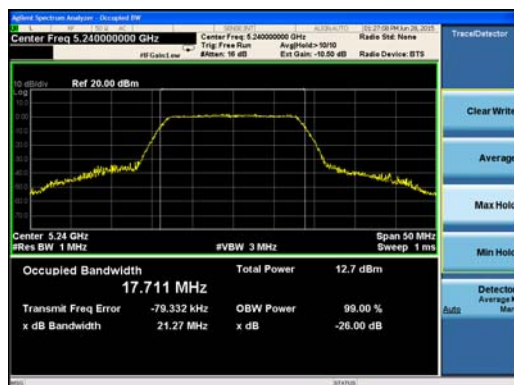
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Ant : A3_802.11ac_VHT40 (2)



Ant : A3_802.11ac_VHT80



Ant : M1_802.11a (1)



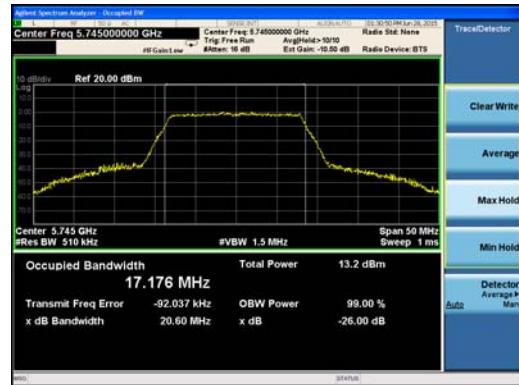
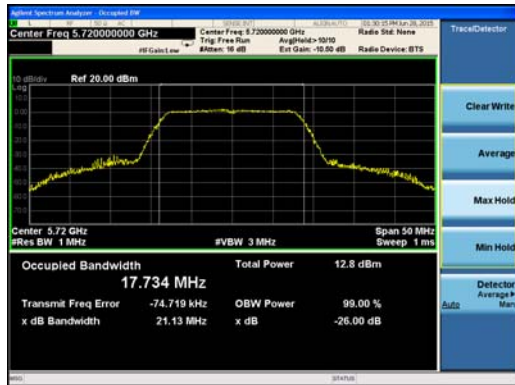
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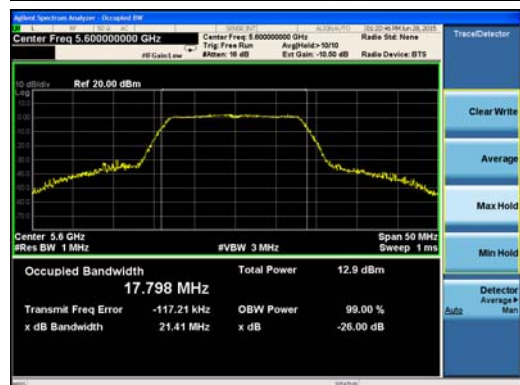
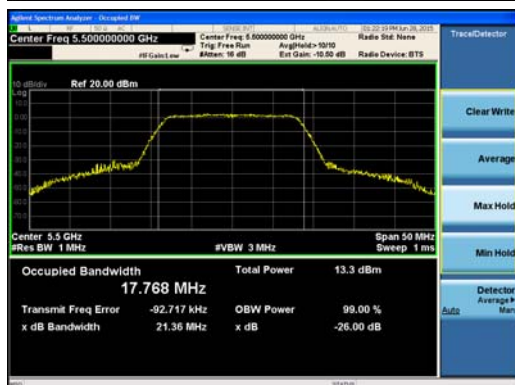
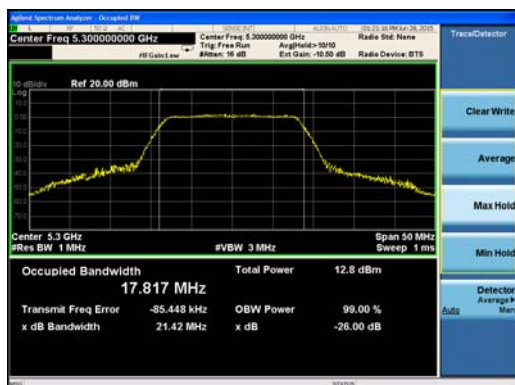
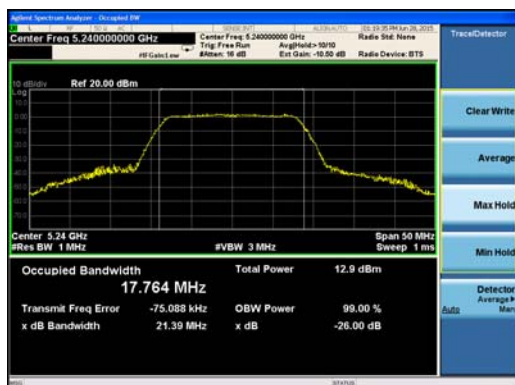
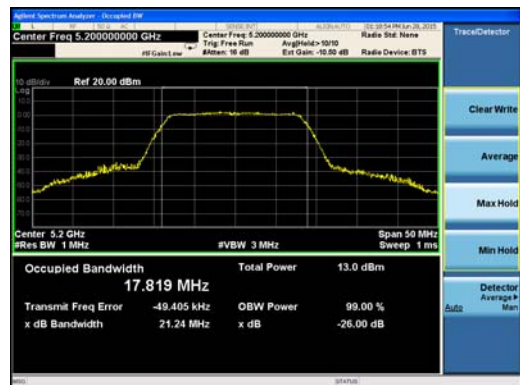
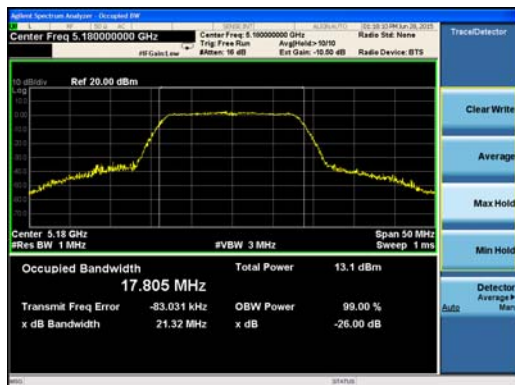
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Ant : M1_802.11a (2)



Ant : M2_802.11a (1)



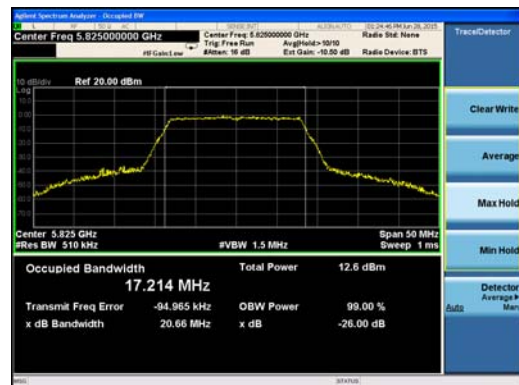
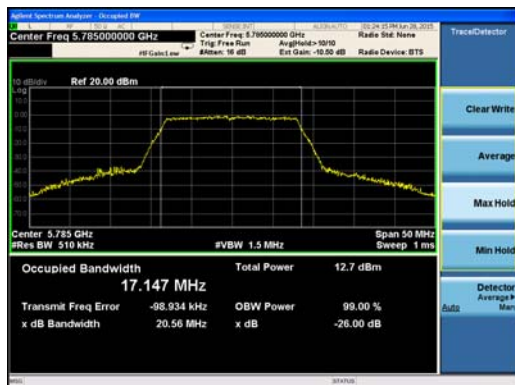
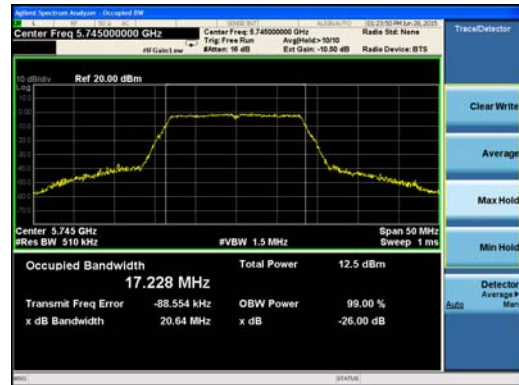
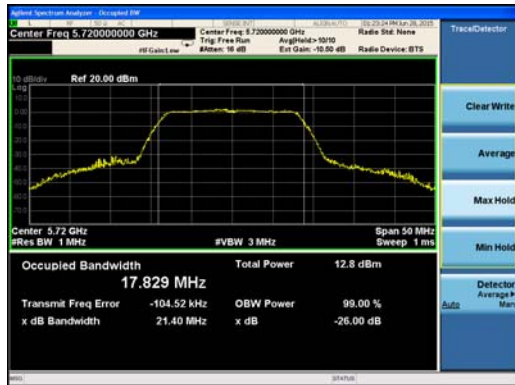
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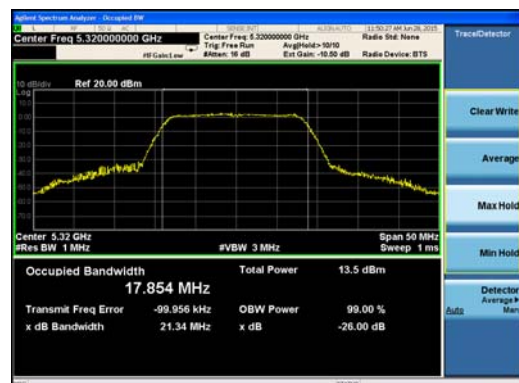
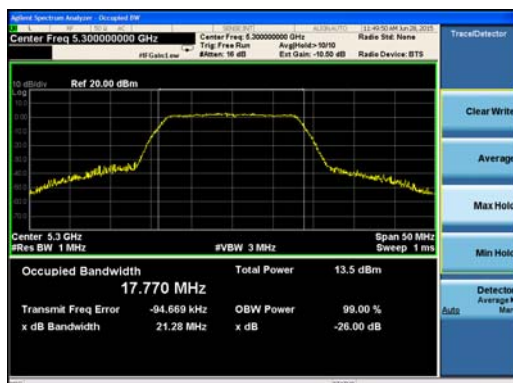
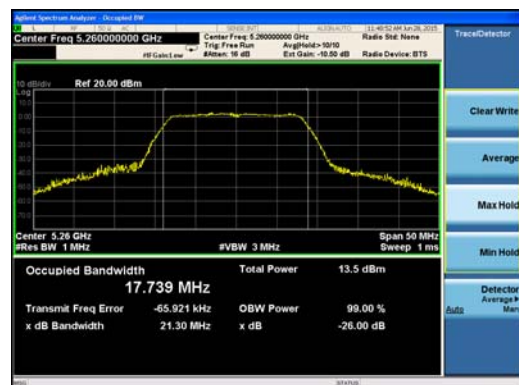
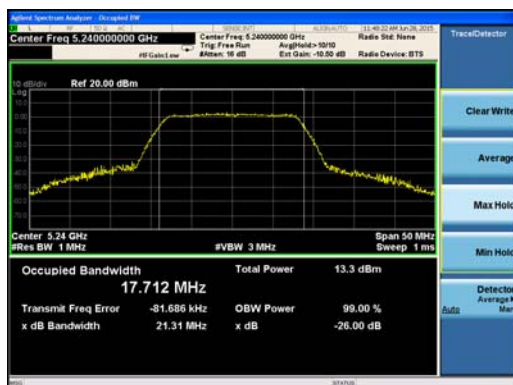
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Ant : M2_802.11a (2)



Ant : M3_802.11a (1)



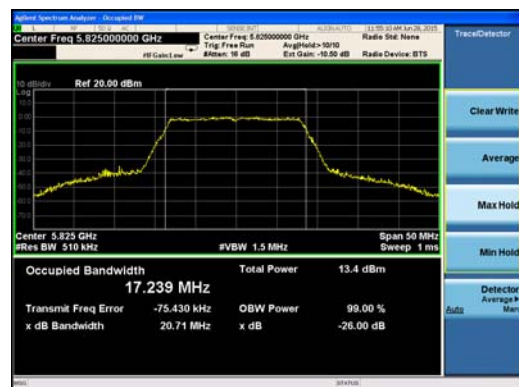
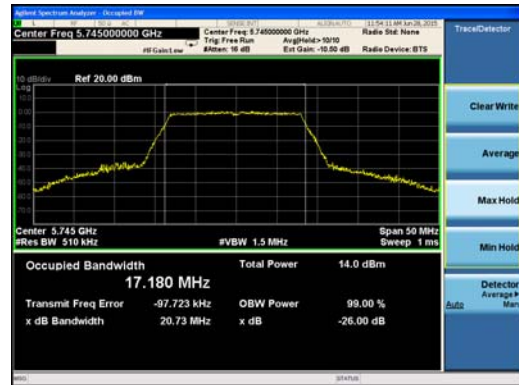
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Ant : M3_802.11a (2)

2.1.4 OUTPUT POWER

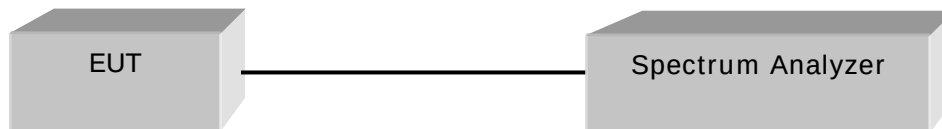
Test Location

RF Test Room

Test Procedures

Maximum Conducted Output Power(KDB 789033, Method SA-1)

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1 MHz

VBW = 3 MHz (3 x RBW)

Trace = average at least 100

Sweep = auto

Detector function = RMS

Limit

[Dipole ANT]

Operating Mode	Band	Mode	ANT Configuration	ANT Gain (dBi)	Limit (dBm)	
					FCC	IC
SISO	UNII 1	802.11a/n/ac	ANT1	5.5	30	23
			ANT2			
			ANT3			
	UNII 2A	802.11a/n/ac	ANT1		24	24
			ANT2			
			ANT3			
	UNII 2C	802.11a/n/ac	ANT1		24	24
			ANT2			
			ANT3			
	UNII 3	802.11a/n/ac	ANT1		30	30
			ANT2			
			ANT3			
MIMO (2Tx)	UNII 1	802.11a/n/ac	ANT1 + ANT2	8.51	27.49	20.49
	UNII 2A		ANT1 + ANT2		21.49	21.49
	UNII 2C		ANT1 + ANT2		21.49	21.49
	UNII 3		ANT1 + ANT2		27.49	27.49
MIMO (3Tx)	UNII 1	802.11a/n/ac	ANT1 + ANT2 + ANT3	10.27	25.73	18.73
	UNII 2A		ANT1 + ANT2 + ANT3		19.73	19.73
	UNII 2C		ANT1 + ANT2 + ANT3		19.73	19.73
	UNII 3		ANT1 + ANT2 + ANT3		25.73	25.73

[Patch ANT]

Operating Mode	Band	Mode	ANT Configuration	ANT Gain (dBi)	Limit (dBm)	
					FCC	IC
SISO	UNII 1	802.11a/n/ac	ANT1	7.0	29	22
			ANT2			
			ANT3			
	UNII 2A	802.11a/n/ac	ANT1		23	23
			ANT2			
			ANT3			
	UNII 2C	802.11a/n/ac	ANT1		23	23
			ANT2			
			ANT3			
	UNII 3	802.11a/n/ac	ANT1		29	29
			ANT2			
			ANT3			
MIMO (2Tx)	UNII 1	802.11a/n/ac	ANT1 + ANT2	10.01	24.99	17.99
	UNII 2A		ANT1 + ANT2		18.99	18.99
	UNII 2C		ANT1 + ANT2		18.99	18.99
	UNII 3		ANT1 + ANT2		24.99	24.99
MIMO (3Tx)	UNII 1	802.11a/n/ac	ANT1 + ANT2 + ANT3	11.77	23.23	16.23
	UNII 2A		ANT1 + ANT2 + ANT3		17.23	17.23
	UNII 2C		ANT1 + ANT2 + ANT3		17.23	17.23
	UNII 3		ANT1 + ANT2 + ANT3		23.23	23.23

Test Results

Ant : A1

	Measured Output Power (dBm)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5180 MHz	8.57	8.60	8.28
5200 MHz	8.71	8.44	8.36
5240 MHz	8.87	8.71	8.57
5260 MHz	8.65	8.63	8.58
5300 MHz	8.53	8.48	8.39
5320 MHz	8.28	8.40	8.34
5500 MHz	8.01	7.98	8.21
5600 MHz	7.91	7.93	8.12
5720 MHz	8.82	8.84	8.79
5745 MHz	8.42	8.39	8.30
5785 MHz	8.43	8.34	8.67
5825 MHz	8.64	8.58	8.49
Measurement uncertainty	± 3 dB		

Ant : A2

	Measured Output Power (dBm)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5180 MHz	7.49	7.44	7.43
5200 MHz	7.70	7.59	7.60
5240 MHz	7.89	7.90	7.92
5260 MHz	7.93	7.80	7.93
5300 MHz	8.04	7.76	7.85
5320 MHz	7.98	7.92	7.91
5500 MHz	8.11	8.06	8.09
5600 MHz	7.92	7.98	8.01
5720 MHz	8.31	8.26	8.21
5745 MHz	7.78	7.89	7.79
5785 MHz	7.95	8.06	7.94
5825 MHz	8.13	8.07	7.93
Measurement uncertainty	± 3 dB		

Ant : A3

	Measured Output Power (dBm)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5180 MHz	6.20	6.33	6.34
5200 MHz	6.42	6.58	6.56
5240 MHz	6.87	7.03	7.13
5260 MHz	7.38	7.45	7.32
5300 MHz	7.61	7.62	7.68
5320 MHz	7.80	7.84	7.79
5500 MHz	8.06	7.93	7.88
5600 MHz	7.95	7.99	7.84
5720 MHz	8.24	8.14	8.31
5745 MHz	7.55	7.84	7.73
5785 MHz	7.63	7.86	7.77
5825 MHz	7.98	8.09	7.97
Measurement uncertainty	± 3 dB		

Ant : A1 + A2

	Measured Output Power (dBm)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5180 MHz	11.07	11.07	10.89
5200 MHz	11.24	11.05	11.01
5240 MHz	11.42	11.33	11.27
5260 MHz	11.32	11.25	11.28
5300 MHz	11.30	11.15	11.14
5320 MHz	11.14	11.18	11.14
5500 MHz	11.07	11.03	11.16
5600 MHz	10.93	10.97	11.08
5720 MHz	11.58	11.57	11.52
5745 MHz	11.12	11.16	11.06
5785 MHz	11.21	11.21	11.33
5825 MHz	11.40	11.34	11.23
Measurement uncertainty	± 3 dB		

Ant : A1 + A2 + A3

	Measured Output Power (dBm)		
Mode	802.11a	802.11n_HT20	802.11ac_VHT20
Frequency			
5180 MHz	12.30	12.33	12.19
5200 MHz	12.48	12.37	12.34
5240 MHz	12.72	12.71	12.68
5260 MHz	12.79	12.76	12.75
5300 MHz	12.85	12.74	12.76
5320 MHz	12.80	12.83	12.79
5500 MHz	12.83	12.76	12.83
5600 MHz	12.70	12.74	12.76
5720 MHz	13.24	13.20	13.22
5745 MHz	12.70	12.82	12.72
5785 MHz	12.79	12.86	12.92
5825 MHz	13.03	13.02	12.91
Measurement uncertainty	± 3 dB		

Ant : M1, M2, M3

	Measured Output Power (dBm)		
Mode	Ant : M1_802.11a	Ant : M2_802.11a	Ant : M3_802.11a
Frequency			
5180 MHz	8.99	9.05	9.58
5200 MHz	8.86	8.79	9.27
5240 MHz	8.62	8.59	9.00
5260 MHz	8.63	8.62	8.98
5300 MHz	8.64	8.35	8.85
5320 MHz	8.44	8.27	8.92
5500 MHz	8.73	8.69	8.86
5600 MHz	8.40	8.55	8.94
5720 MHz	8.92	8.69	9.44
5745 MHz	8.45	8.05	9.11
5785 MHz	8.31	8.22	9.21
5825 MHz	8.43	8.30	9.04
Measurement uncertainty	± 3 dB		

Ant : M1 + M2

	Measured Output Power (dBm)
Mode	802.11a
Frequency	
5180 MHz	12.03
5200 MHz	11.84
5240 MHz	11.62
5260 MHz	11.64
5300 MHz	11.51
5320 MHz	11.37
5500 MHz	11.72
5600 MHz	11.49
5720 MHz	11.82
5745 MHz	11.26
5785 MHz	11.28
5825 MHz	11.38
Measurement uncertainty	± 3 dB

Ant : M1 + M2 + M3

	Measured Output Power (dBm)
Mode	802.11a
Frequency	
5180 MHz	13.99
5200 MHz	13.75
5240 MHz	13.51
5260 MHz	13.52
5300 MHz	13.39
5320 MHz	13.32
5500 MHz	13.53
5600 MHz	13.41
5720 MHz	13.80
5745 MHz	13.33
5785 MHz	13.37
5825 MHz	13.37
Measurement uncertainty	± 3 dB

Ant : A1

	Measured Output Power (dBm)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5190 MHz	8.64	8.77
5230 MHz	8.75	8.91
5270 MHz	8.58	8.77
5310 MHz	8.54	8.58
5510 MHz	8.10	8.02
5590 MHz	7.90	7.98
5710 MHz	8.44	8.55
5755 MHz	8.53	8.62
5795 MHz	8.79	8.80
Measurement uncertainty	± 3 dB	

Ant : A2

	Measured Output Power (dBm)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5190 MHz	7.81	7.50
5230 MHz	7.92	7.93
5270 MHz	8.06	8.02
5310 MHz	8.21	8.07
5510 MHz	8.31	8.30
5590 MHz	8.02	8.06
5710 MHz	8.36	8.33
5755 MHz	7.77	7.78
5795 MHz	8.07	7.99
Measurement uncertainty	± 3 dB	

Ant : A3

	Measured Output Power (dBm)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5190 MHz	6.55	6.71
5230 MHz	7.05	7.00
5270 MHz	7.55	7.75
5310 MHz	7.83	8.01
5510 MHz	7.97	7.96
5590 MHz	7.90	7.75
5710 MHz	8.12	8.03
5755 MHz	7.86	7.79
5795 MHz	8.14	7.94
Measurement uncertainty	± 3 dB	

Ant : A1 + A2

	Measured Output Power (dBm)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5190 MHz	11.26	11.19
5230 MHz	11.37	11.46
5270 MHz	11.34	11.42
5310 MHz	11.39	11.34
5510 MHz	11.22	11.17
5590 MHz	10.97	11.03
5710 MHz	11.41	11.45
5755 MHz	11.18	11.23
5795 MHz	11.46	11.42
Measurement uncertainty	± 3 dB	



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Ant : A1 + A2 + A3

	Measured Output Power (dBm)	
Mode	802.11n_HT40	802.11ac_VHT40
Frequency		
5190 MHz	12.52	12.52
5230 MHz	12.73	12.79
5270 MHz	12.85	12.97
5310 MHz	12.97	13.00
5510 MHz	12.90	12.87
5590 MHz	12.71	12.70
5710 MHz	13.08	13.08
5755 MHz	12.84	12.85
5795 MHz	13.12	13.03
Measurement uncertainty	± 3 dB	

Ant : A1, A2, A3

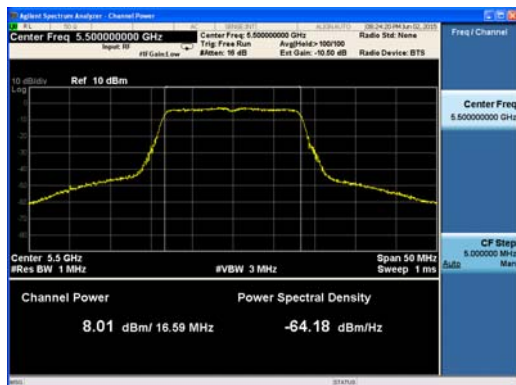
	Measured Output Power (dBm)		
Mode	Ant : A1	Ant : A2	Ant : A3
Frequency	802.11ac_VHT80	802.11ac_VHT80	802.11ac_VHT80
5210 MHz	8.92	7.73	6.91
5290 MHz	8.63	8.08	7.88
5530 MHz	8.44	8.20	8.08
5690 MHz	8.70	8.17	8.26
5775 MHz	8.58	7.73	7.82
Measurement uncertainty	± 3 dB		

Ant : A1 + A2

	Measured Output Power (dBm)
Mode	802.11ac_VHT80
Frequency	
5210 MHz	11.38
5290 MHz	11.37
5530 MHz	11.33
5690 MHz	11.45
5775 MHz	11.19
Measurement uncertainty	± 3 dB

Ant : A1 + A2 + A3

	Measured Output Power (dBm)
Mode	802.11ac_VHT80
Frequency	
5210 MHz	12.70
5290 MHz	12.98
5530 MHz	13.01
5690 MHz	13.15
5775 MHz	12.83
Measurement uncertainty	± 3 dB



Ant : A1_802.11a (1)



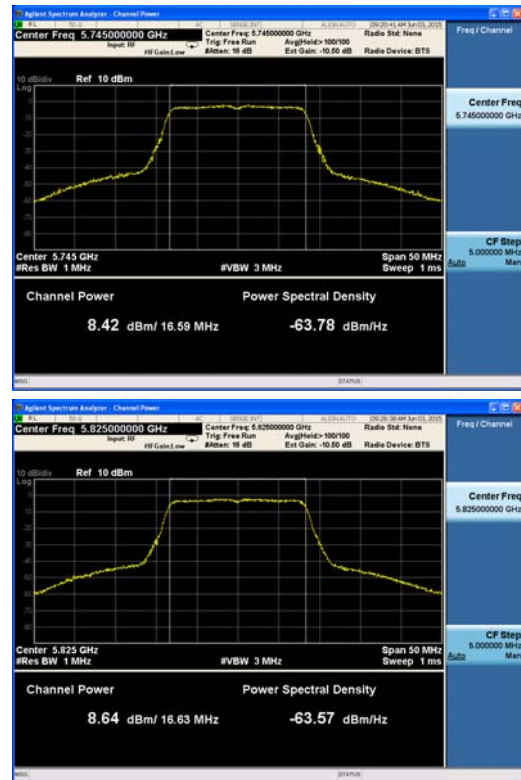
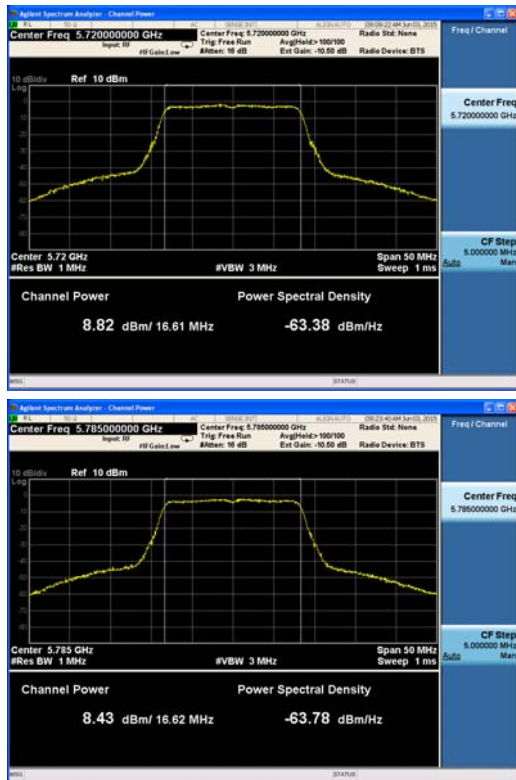
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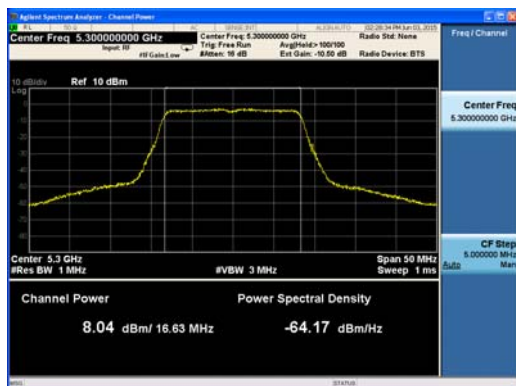
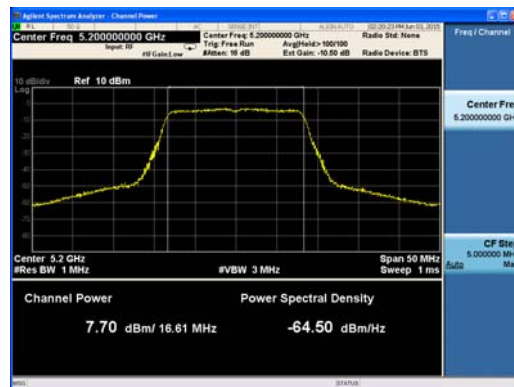
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Ant : A1_802.11a (2)



Ant : A2_802.11a (1)



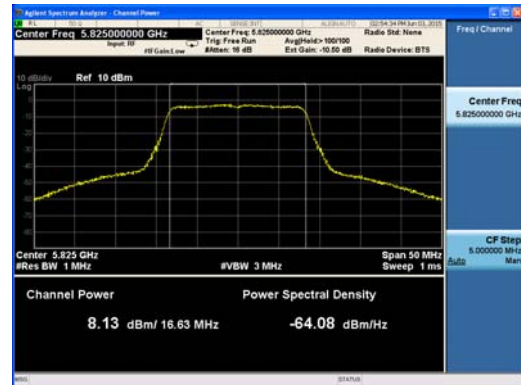
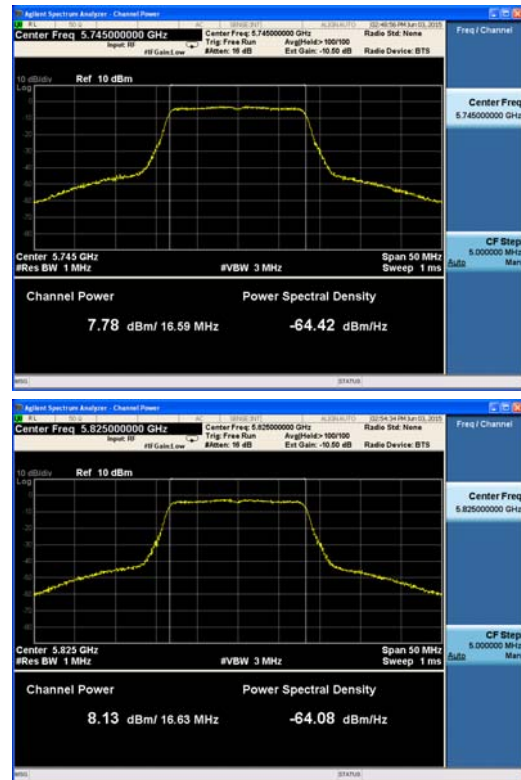
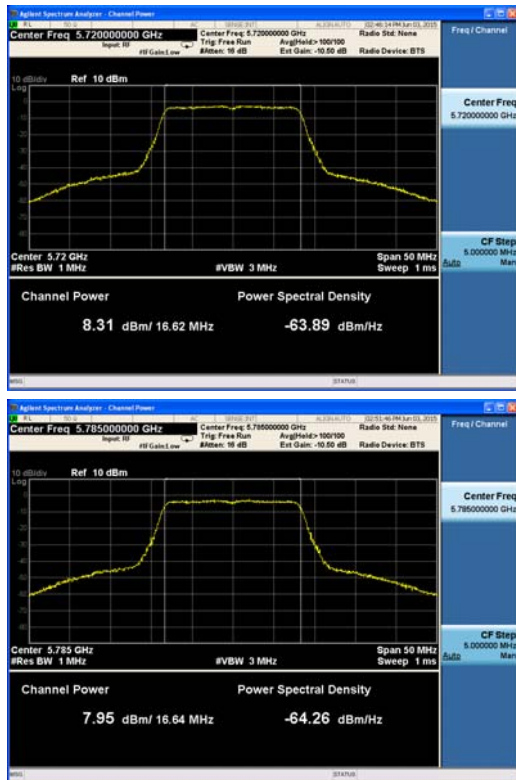
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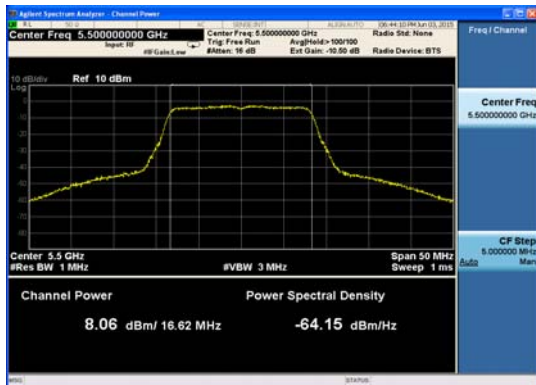
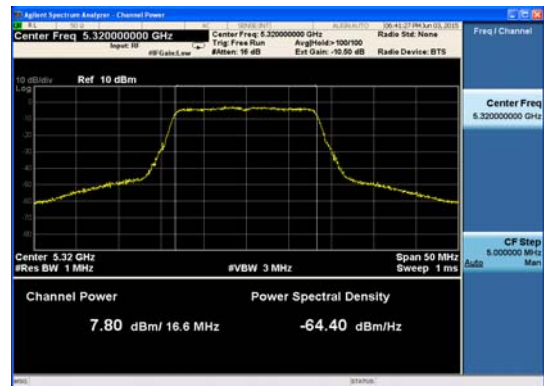
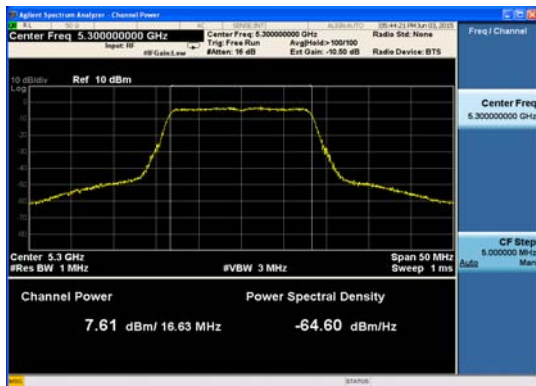
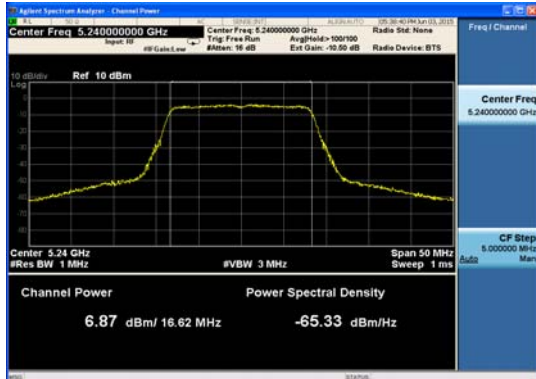
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Ant : A2_802.11a (2)



Ant : A3_802.11a (1)



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Ant : A3_802.11a (2)



Ant : M1_802.11a (1)



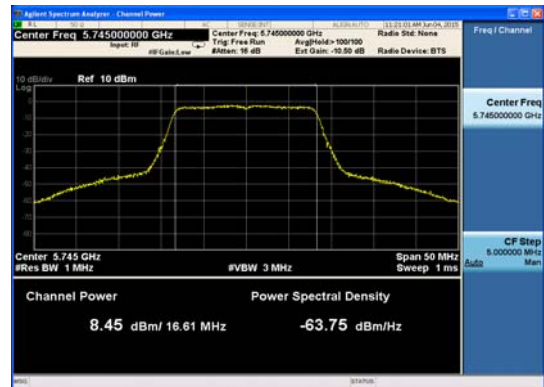
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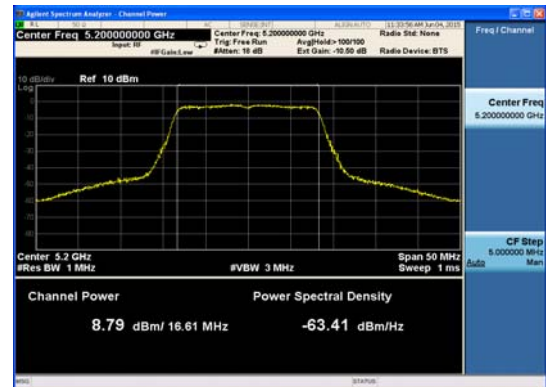
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Ant : M1_802.11a (2)



Ant : M2_802.11a (1)



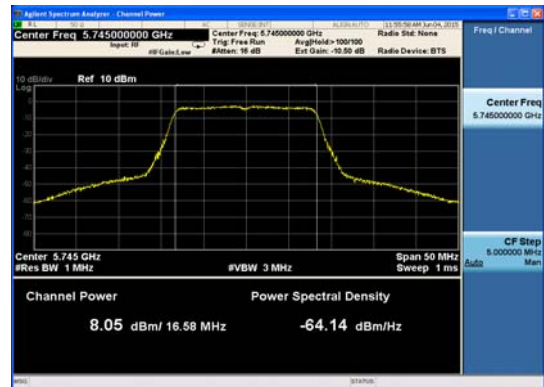
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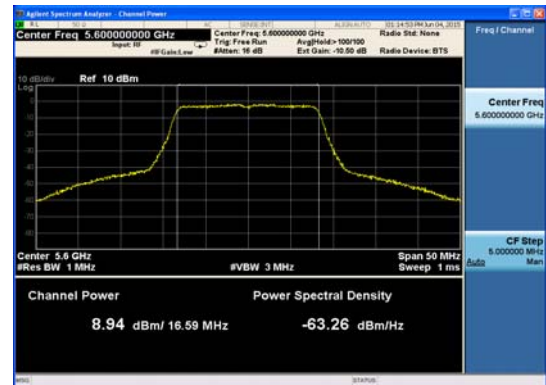
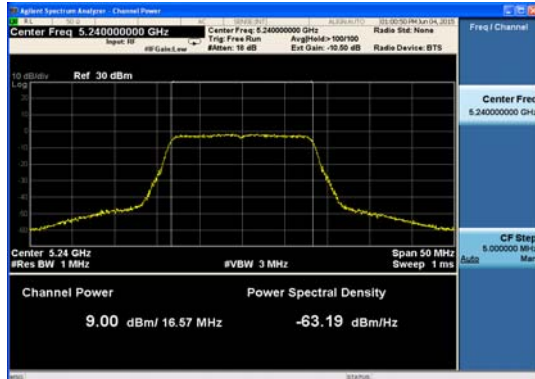
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Ant : M2_802.11a (2)



Ant : M3_802.11a (1)



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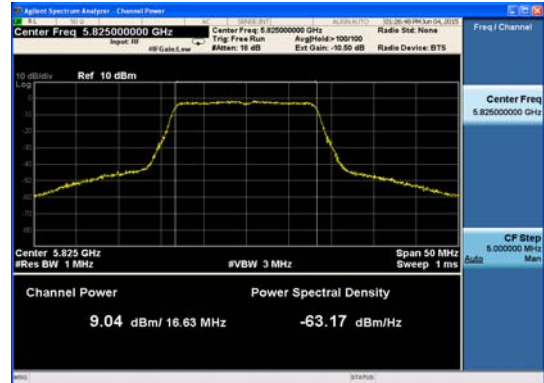
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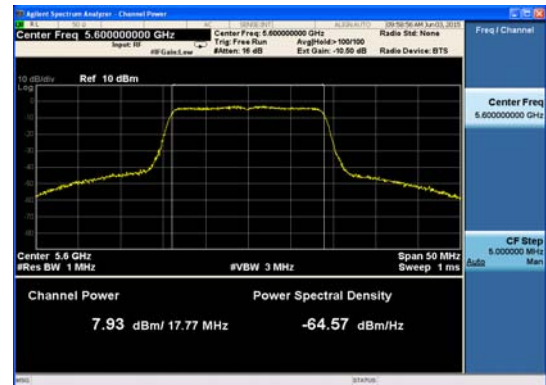
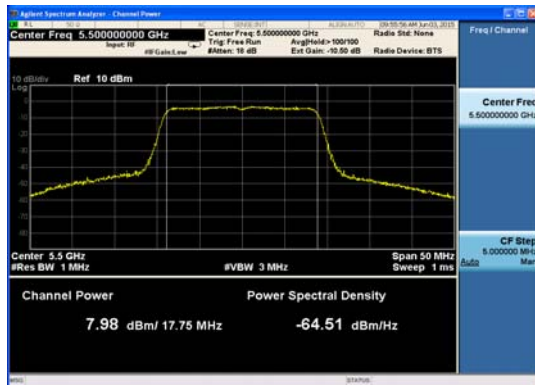
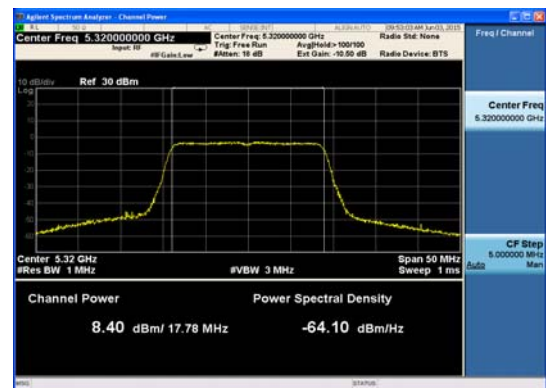
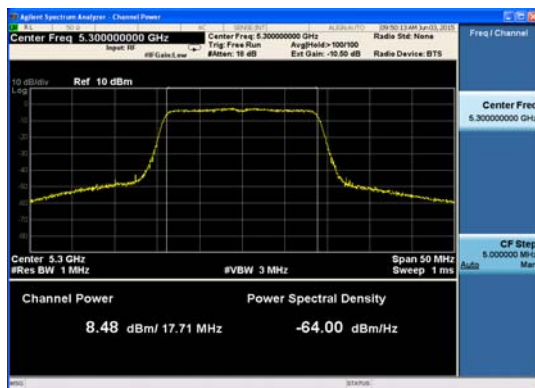
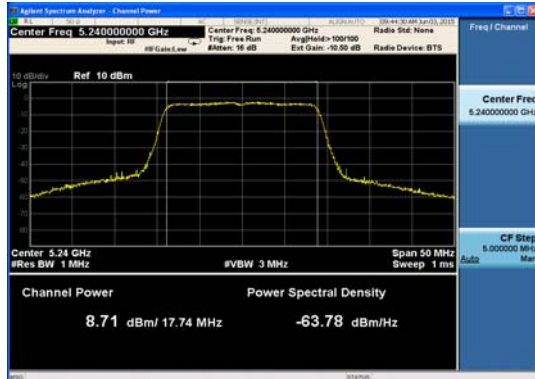
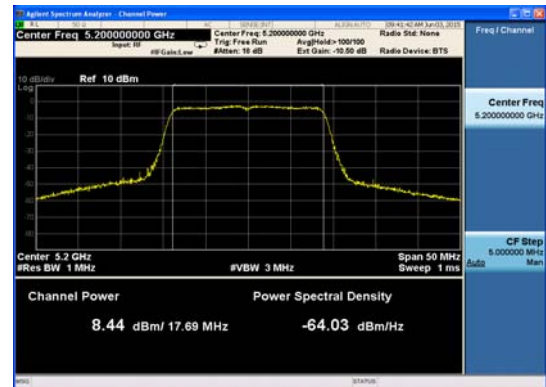
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Ant : M3_802.11a (2)



Ant : A1_802.11n_HT20 (1)



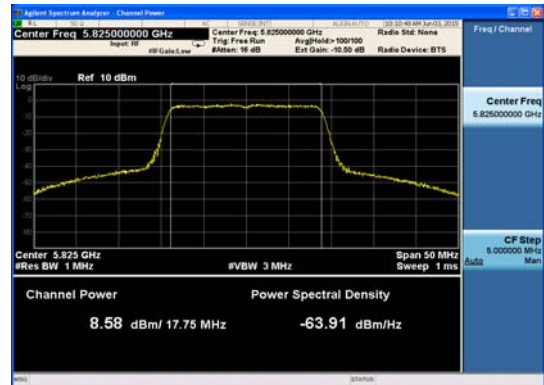
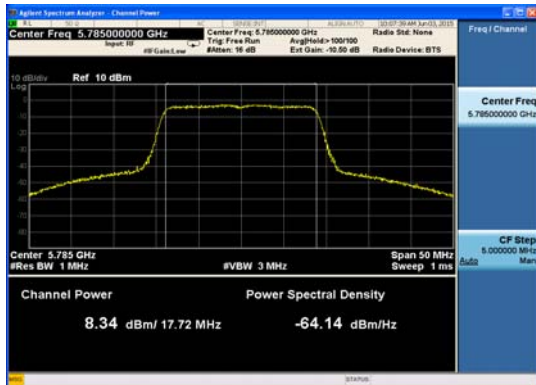
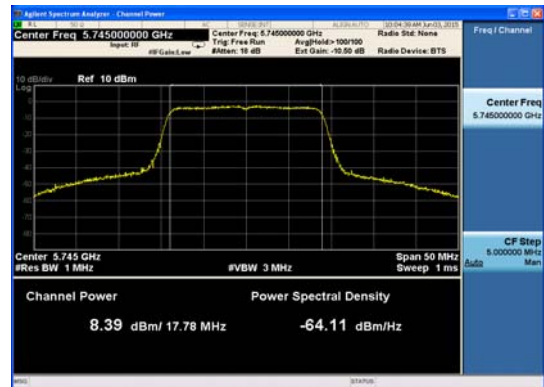
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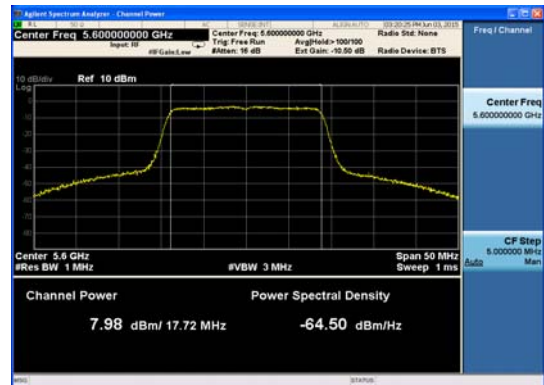
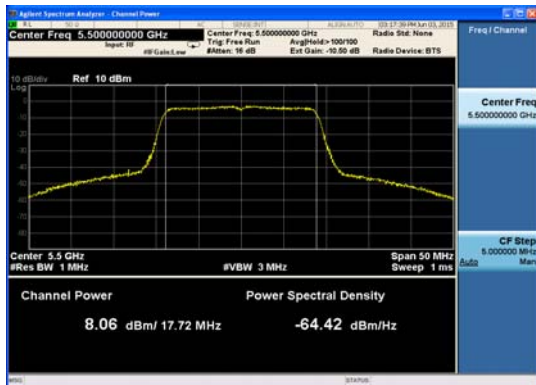
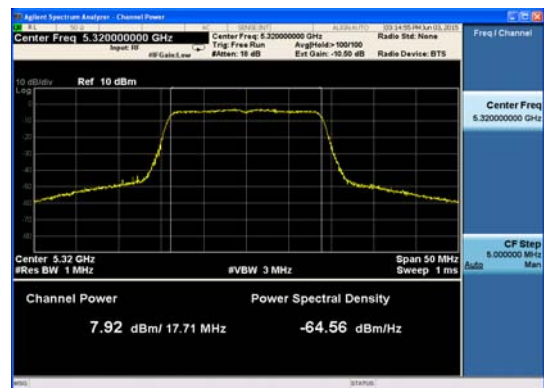
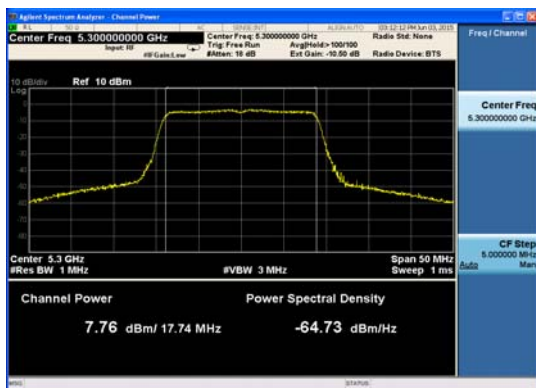
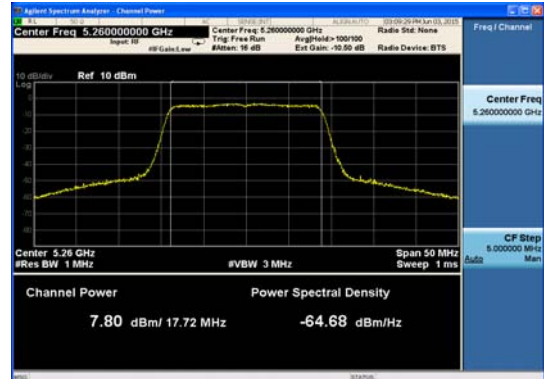
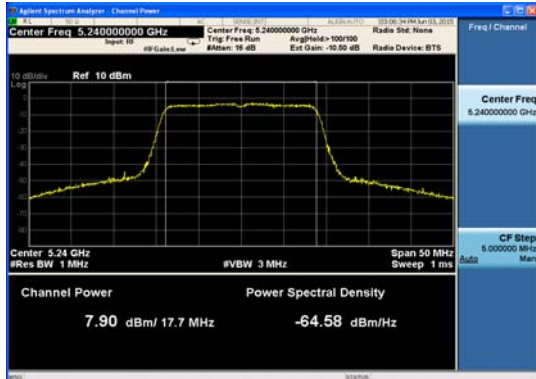
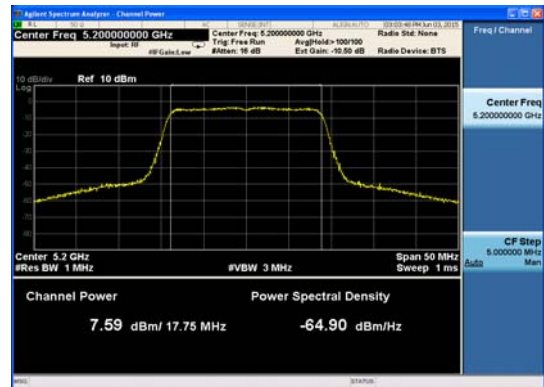
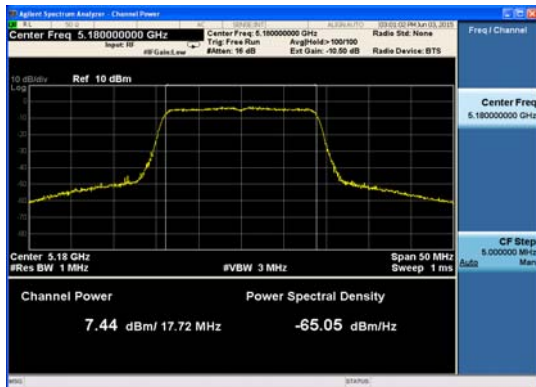
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Ant : A1_802.11n_HT20 (2)



Ant : A2_802.11n_HT20 (1)



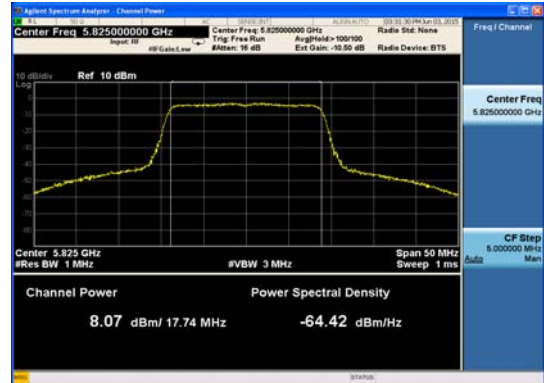
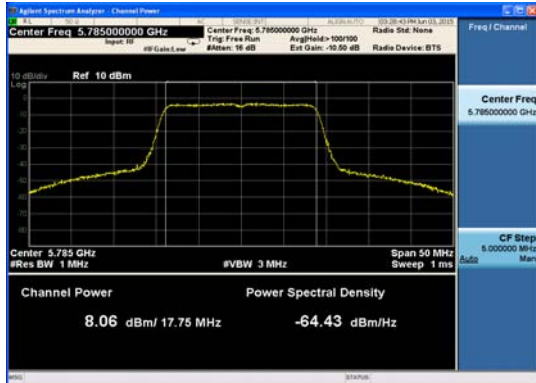
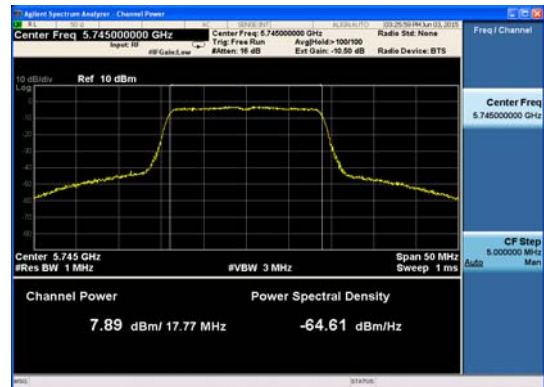
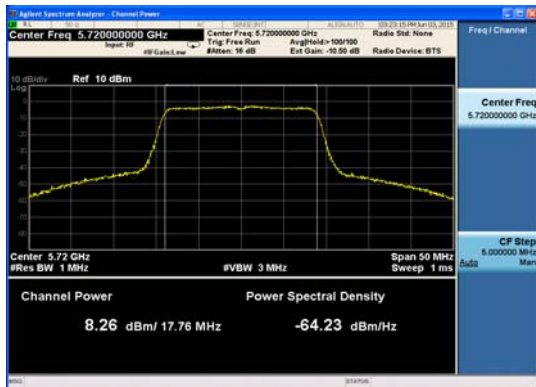
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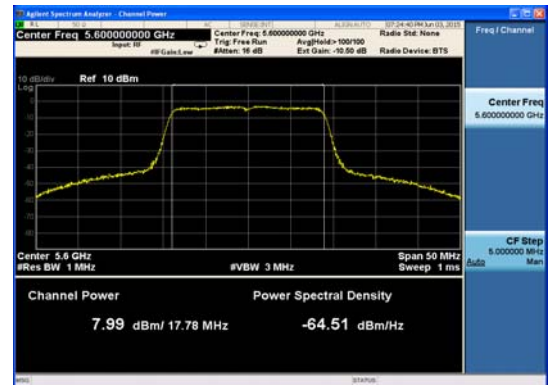
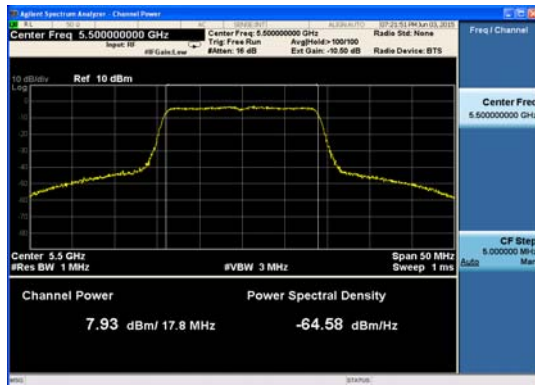
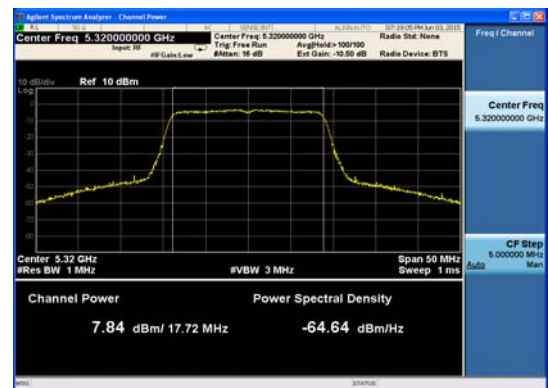
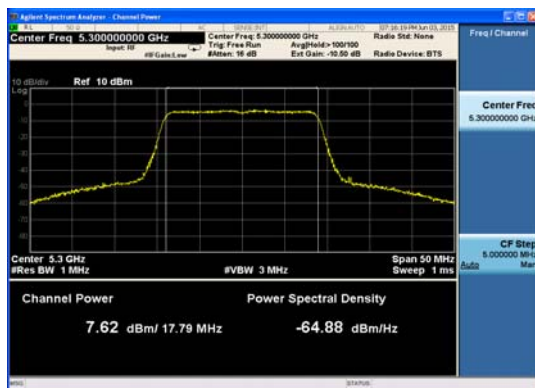
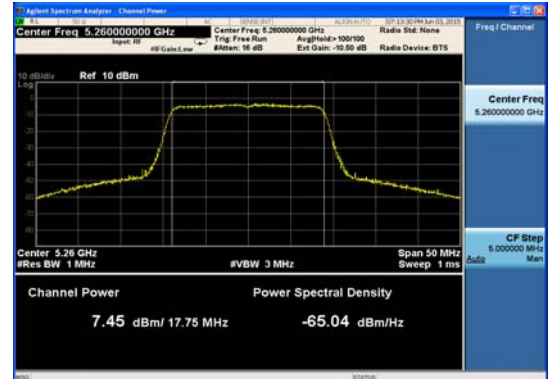
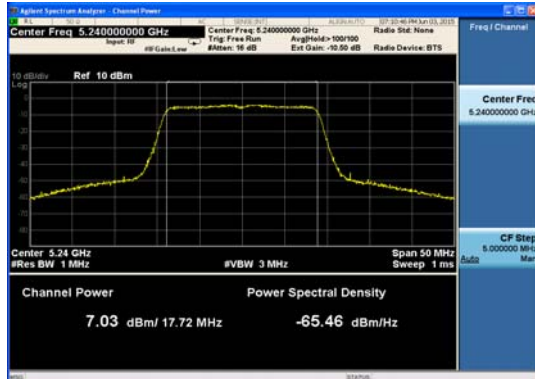
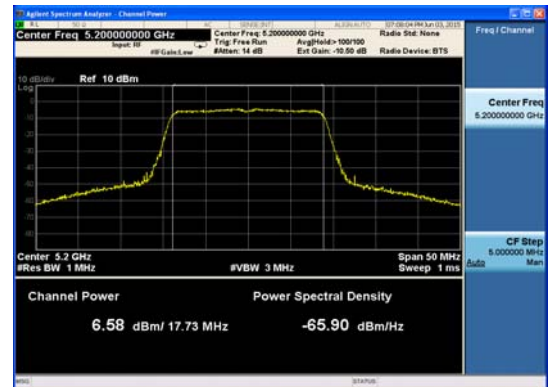
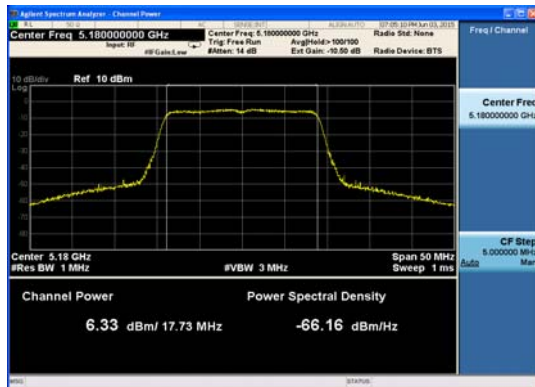
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Ant : A2_802.11n_HT20 (2)



Ant : A3_802.11n_HT20 (1)



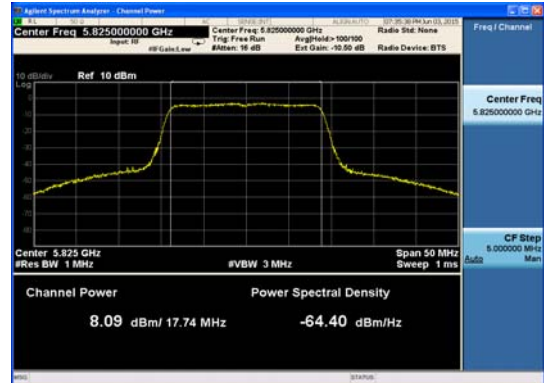
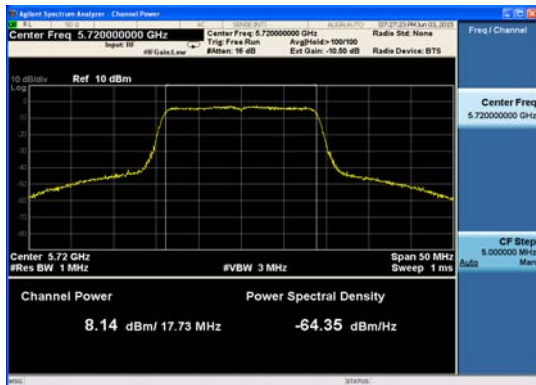
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Ant : A3_802.11n_HT20 (2)



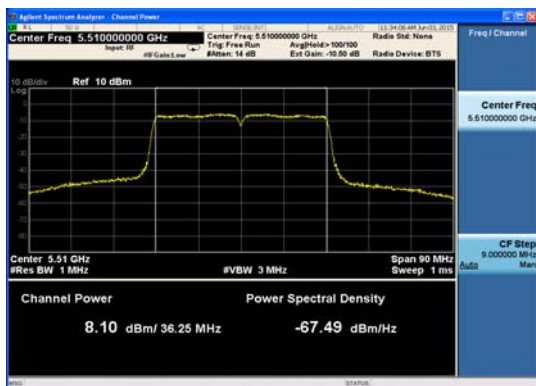
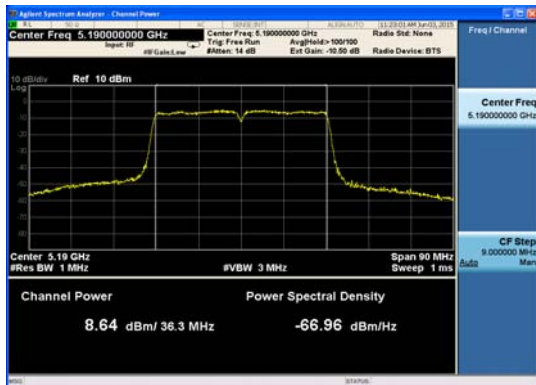
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Ant : A1_802.11n_HT40 (1)



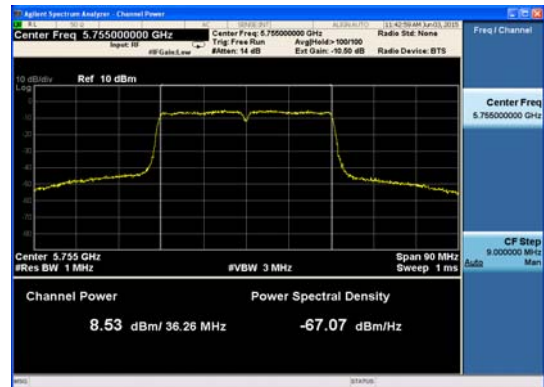
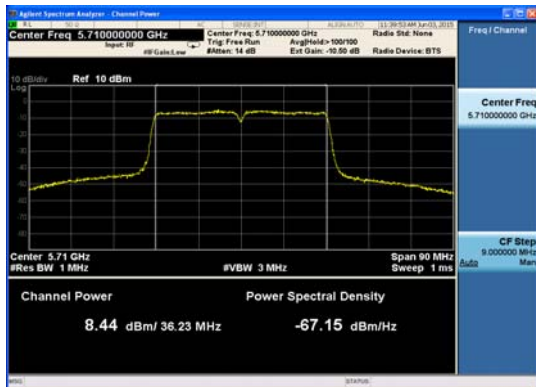
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Ant : A1_802.11n_HT40 (2)



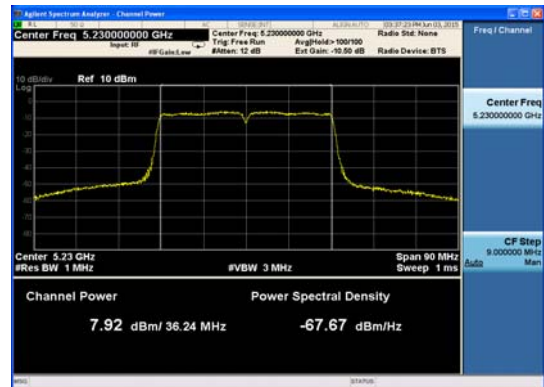
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Ant : A2_802.11n_HT40 (1)



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Ant : A2_802.11n_HT40 (2)



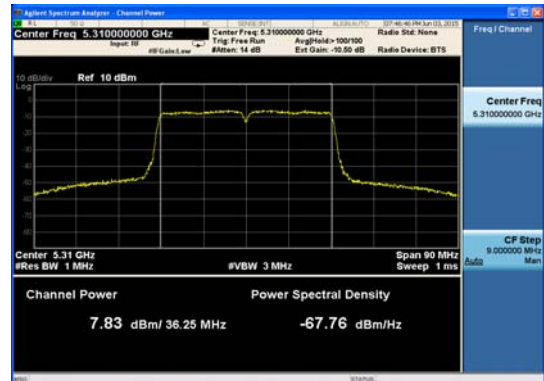
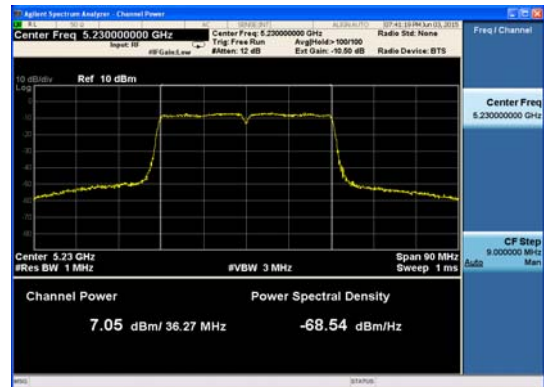
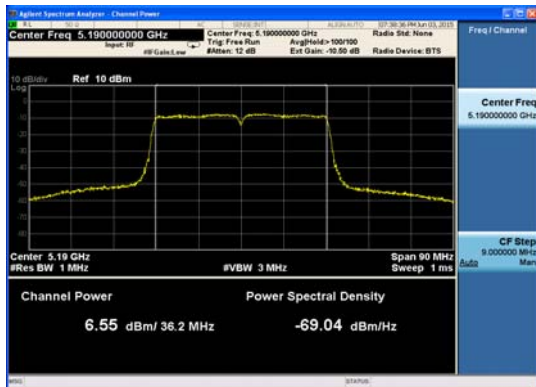
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Ant : A3_802.11n_HT40 (1)



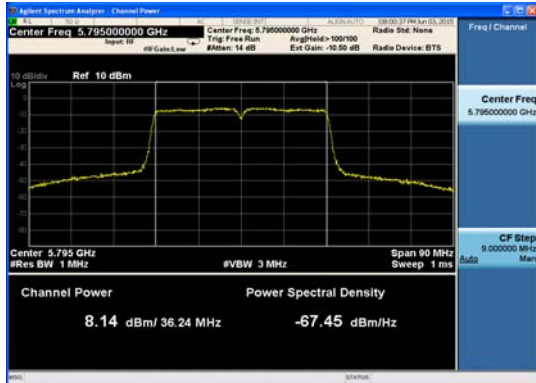
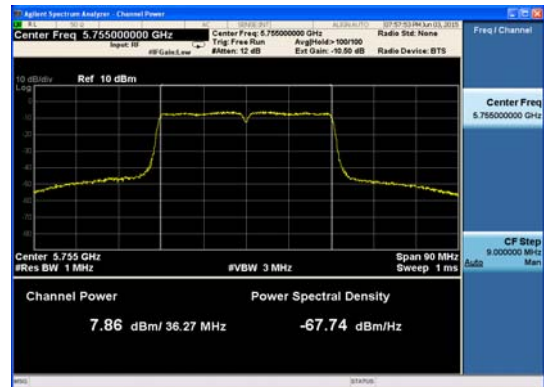
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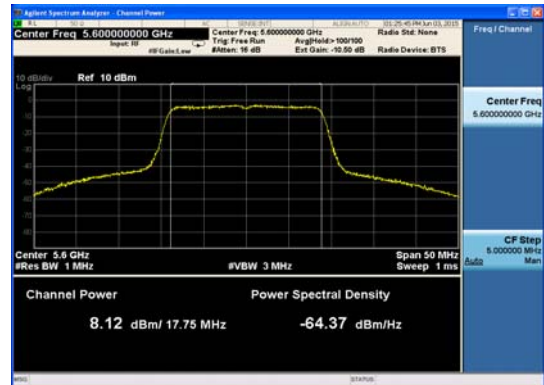
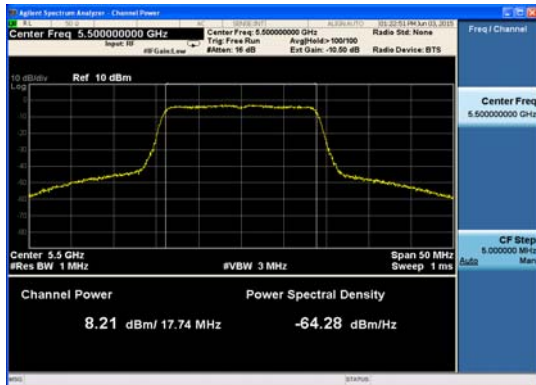
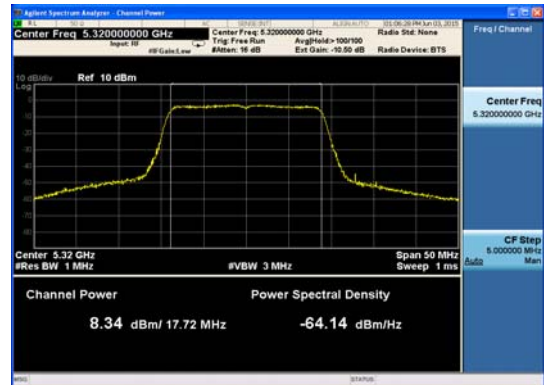
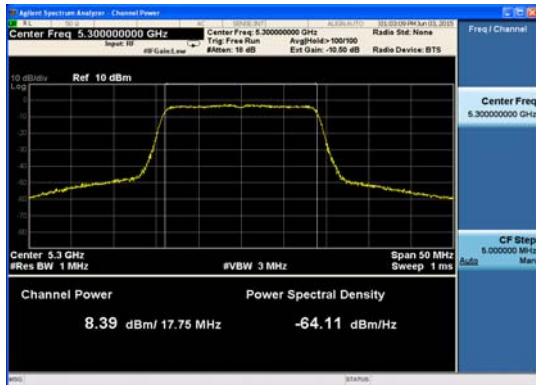
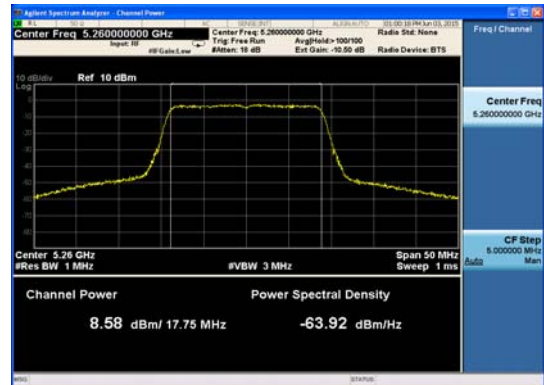
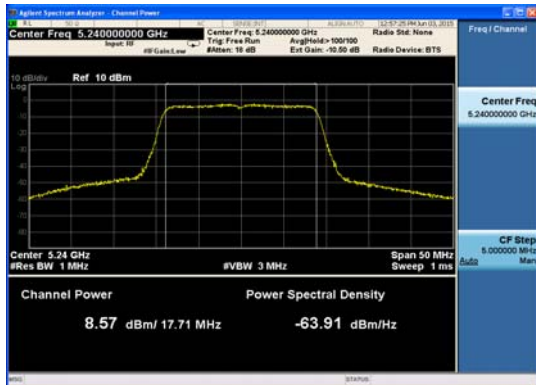
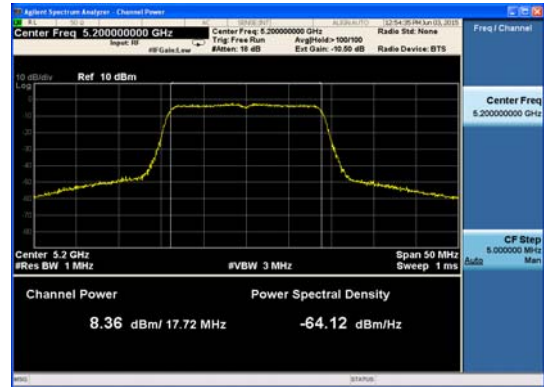
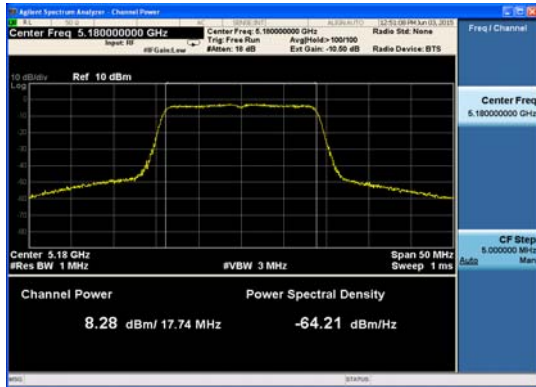
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Ant : A3_802.11n_HT40 (2)



Ant : A1_802.11ac_VHT20 (1)



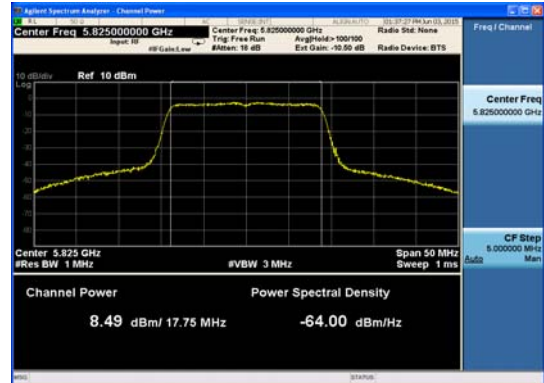
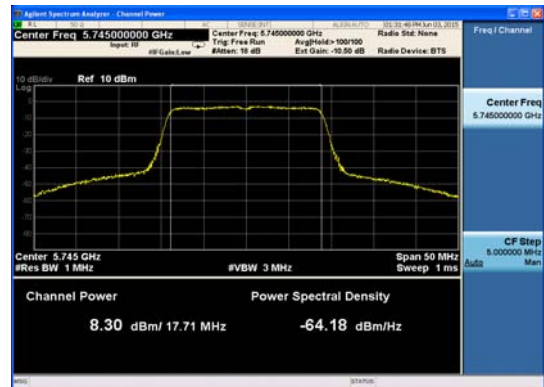
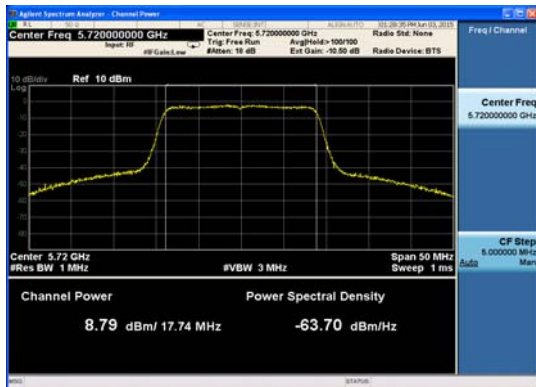
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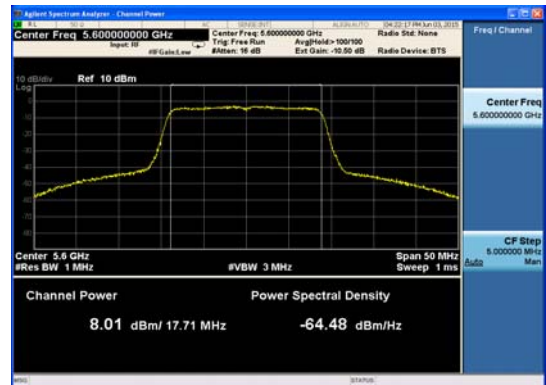
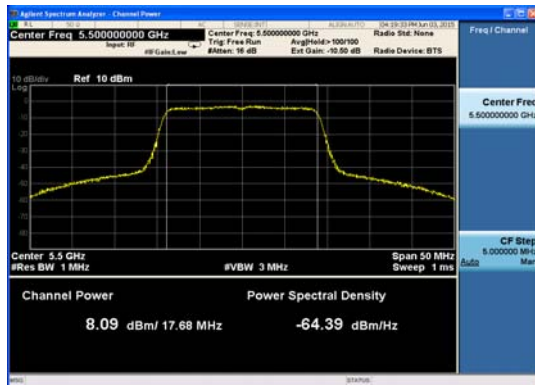
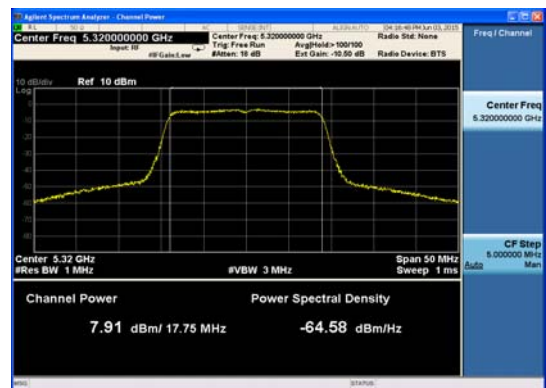
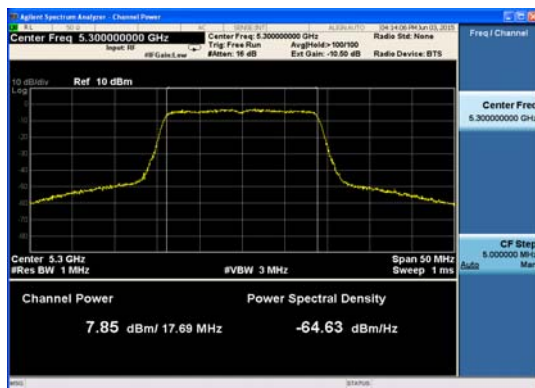
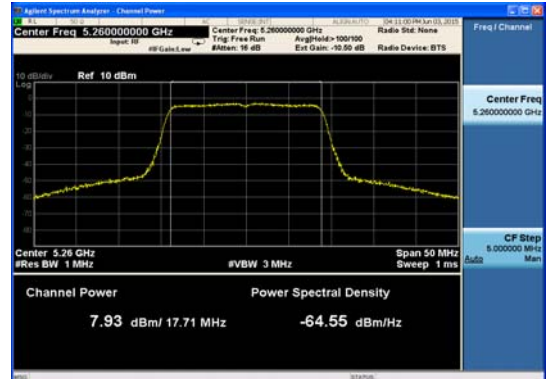
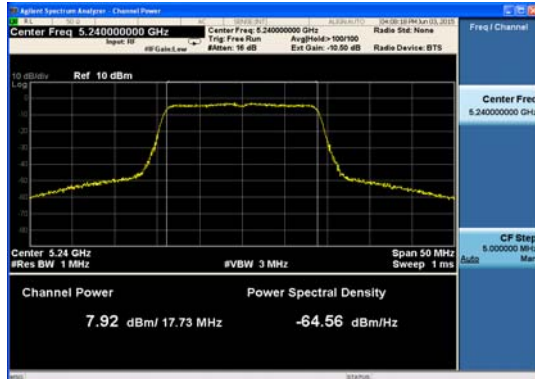
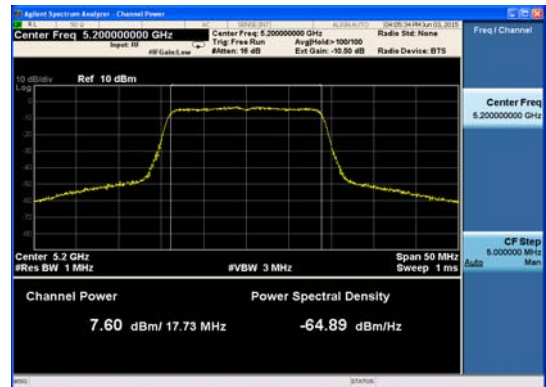
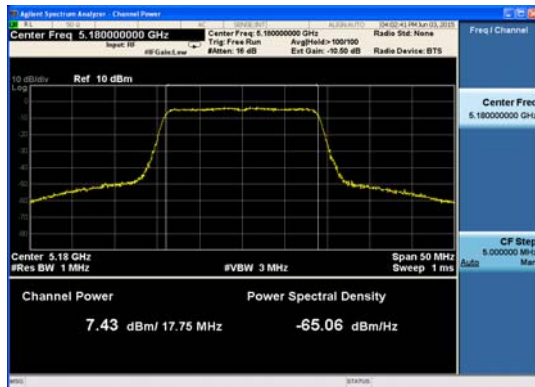
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Ant : A2_802.11ac_VHT20 (1)



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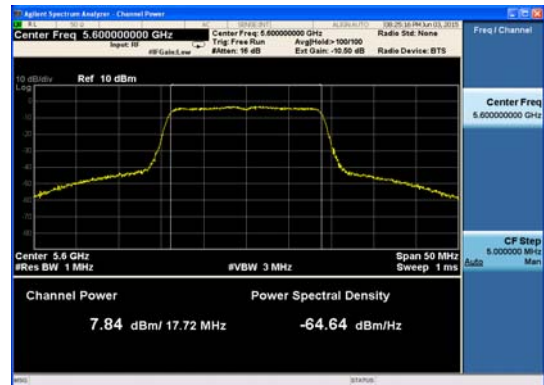
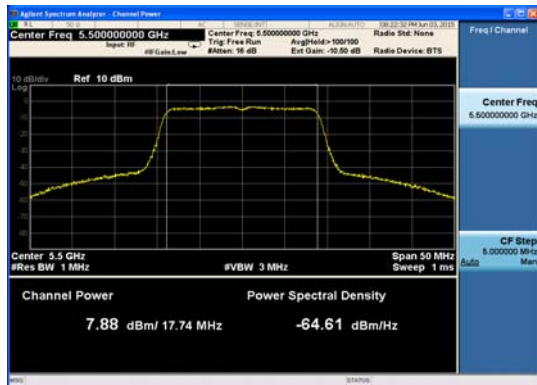
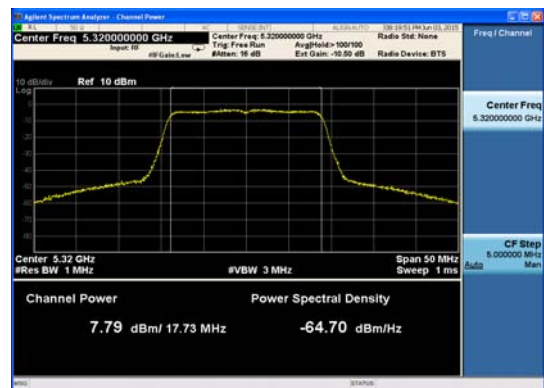
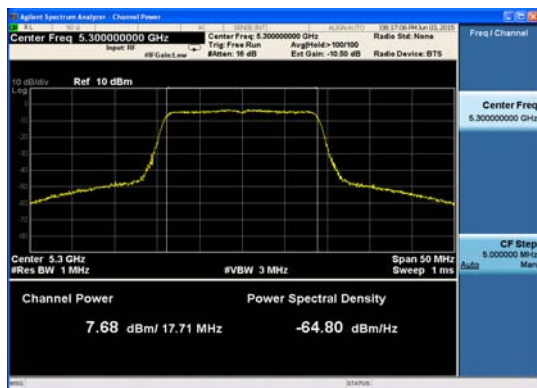
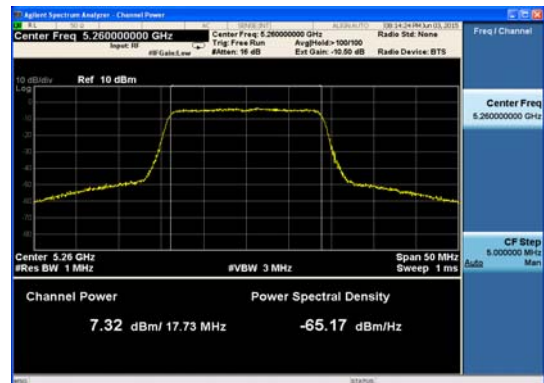
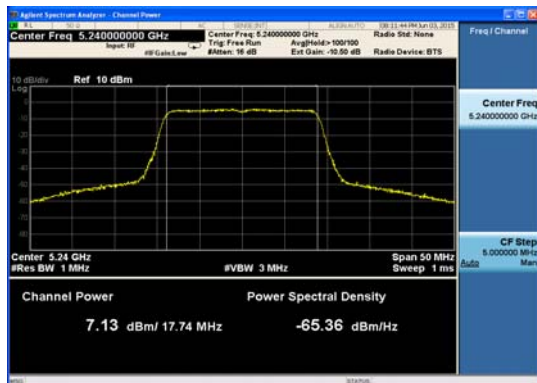
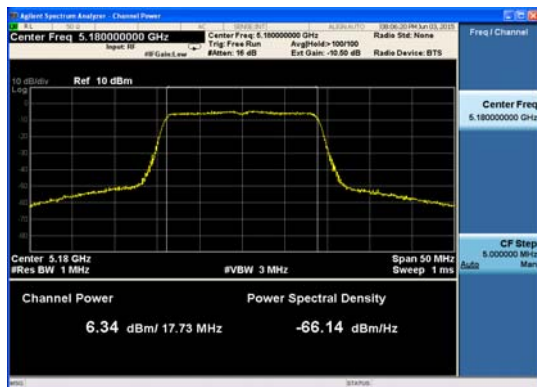
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Ant : A3_802.11ac_VHT20 (1)



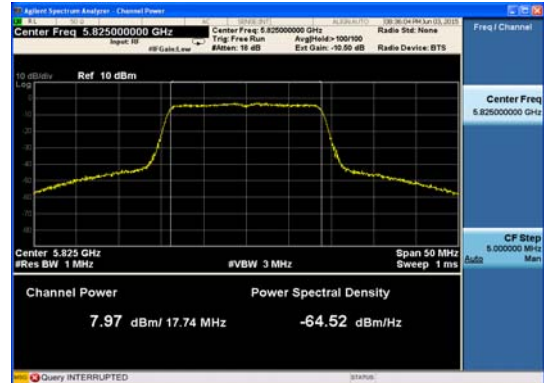
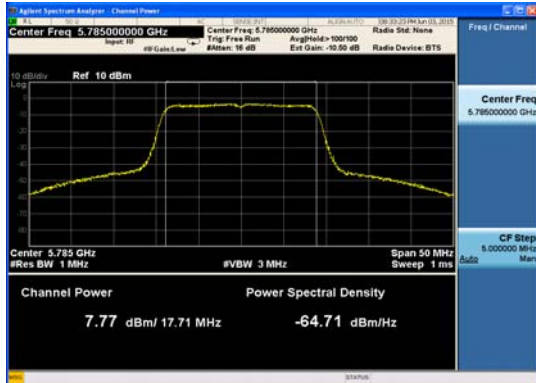
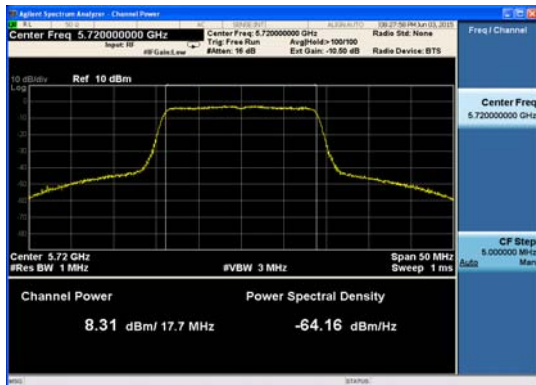
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