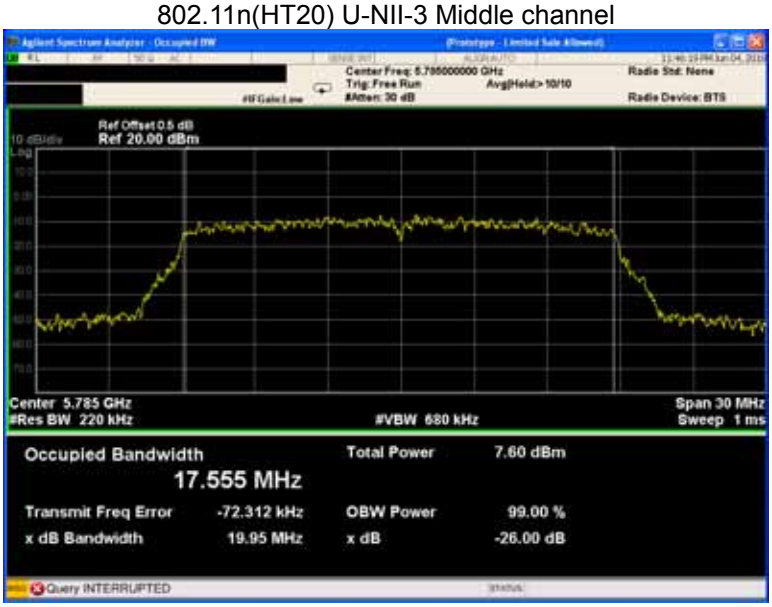
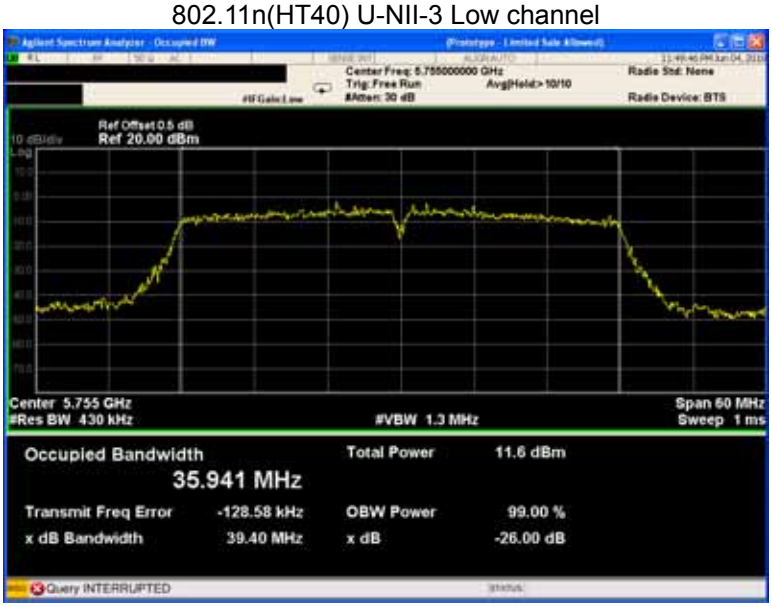
802.11n(HT20) U-NII-3 Middle channel



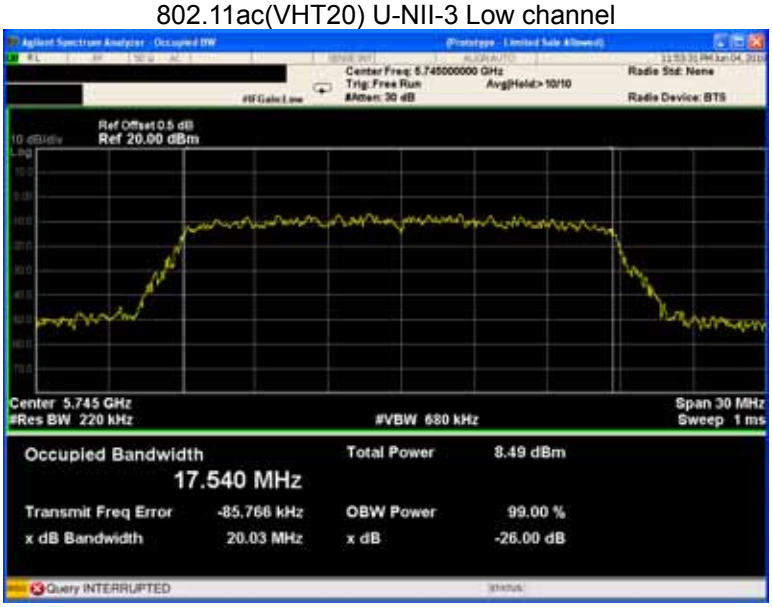
802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

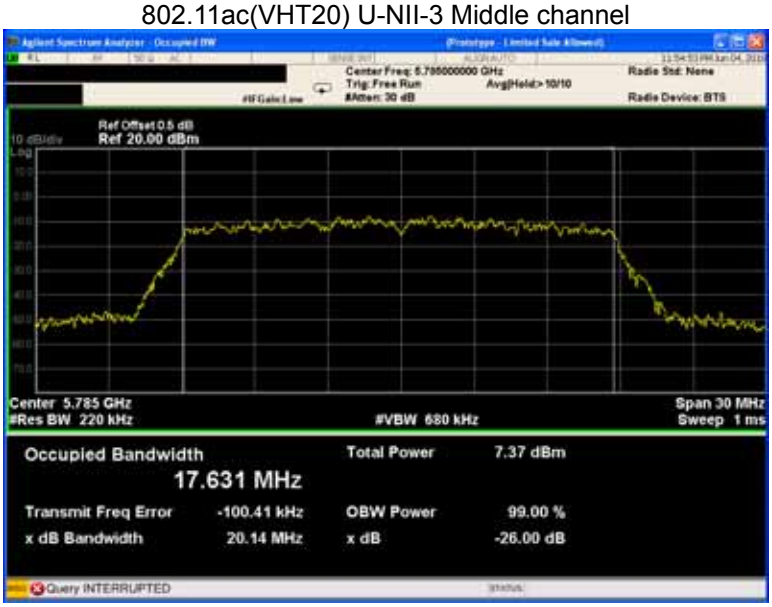


802.11n(HT40) U-NII-3 High channel

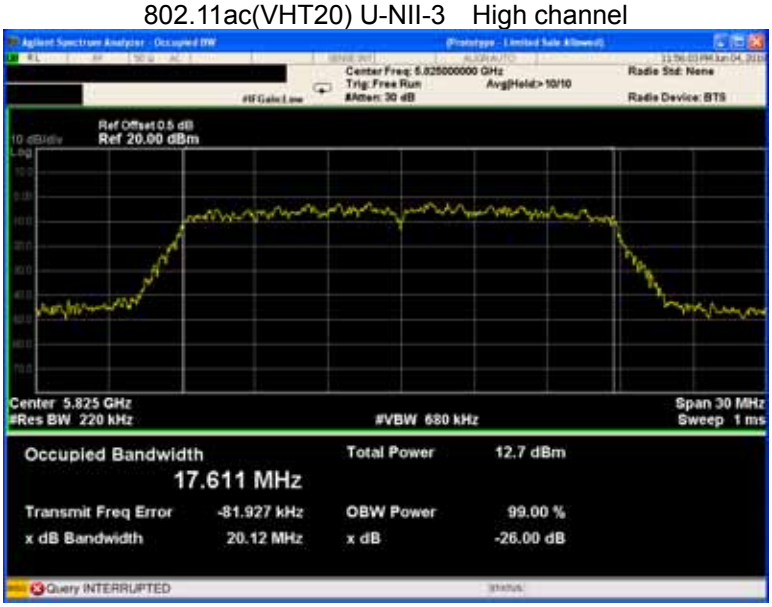
802.11ac(VHT20) U-NII-3 Low channel



802.11ac(VHT20) U-NII-3 Middle channel

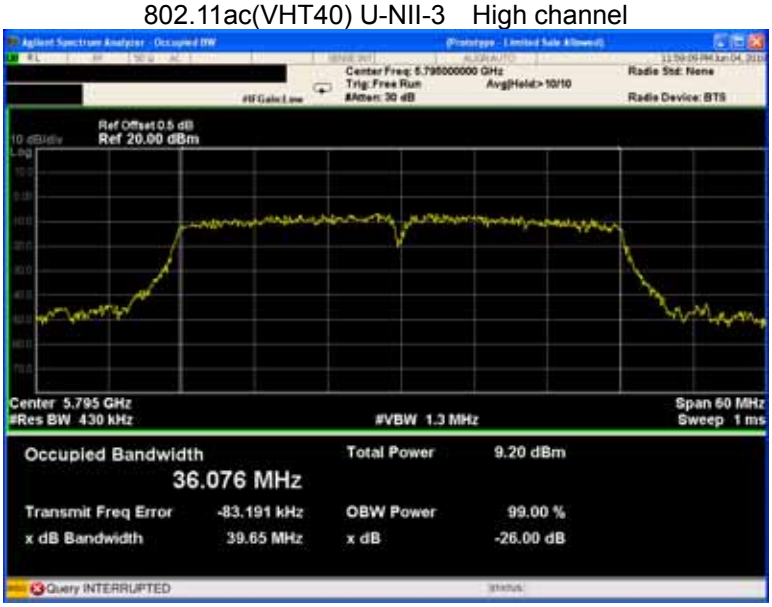


802.11ac(VHT20) U-NII-3 High channel

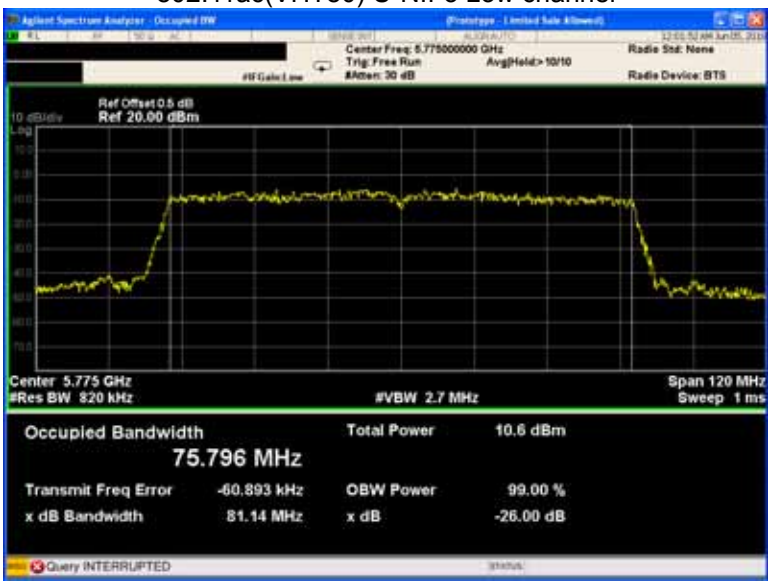


802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



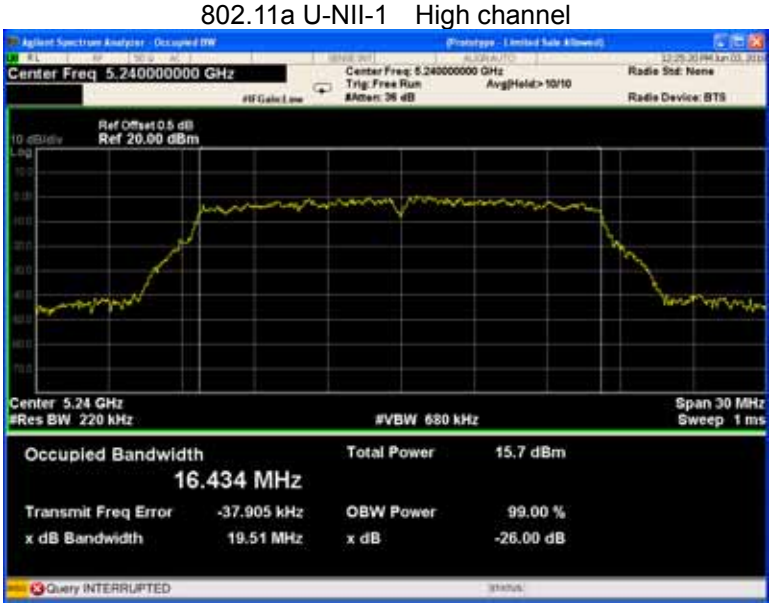
Waltek Services (Shenzhen) Co.,Ltd.
http://www.waltek.com.cn

ANT6

802.11a U-NII-1 Low channel

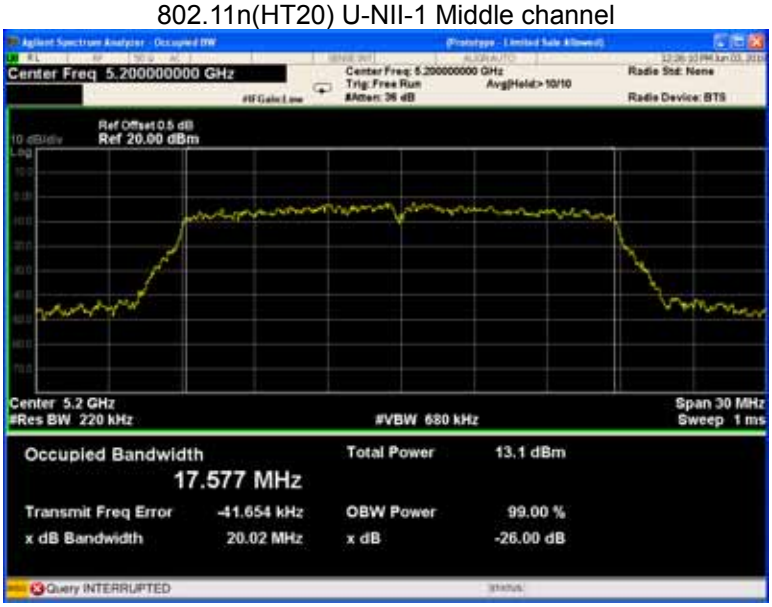
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel



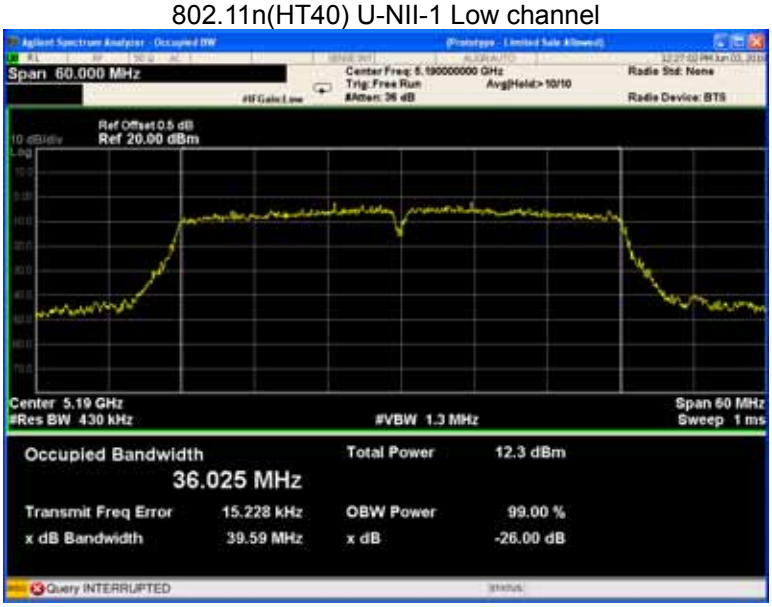
802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel



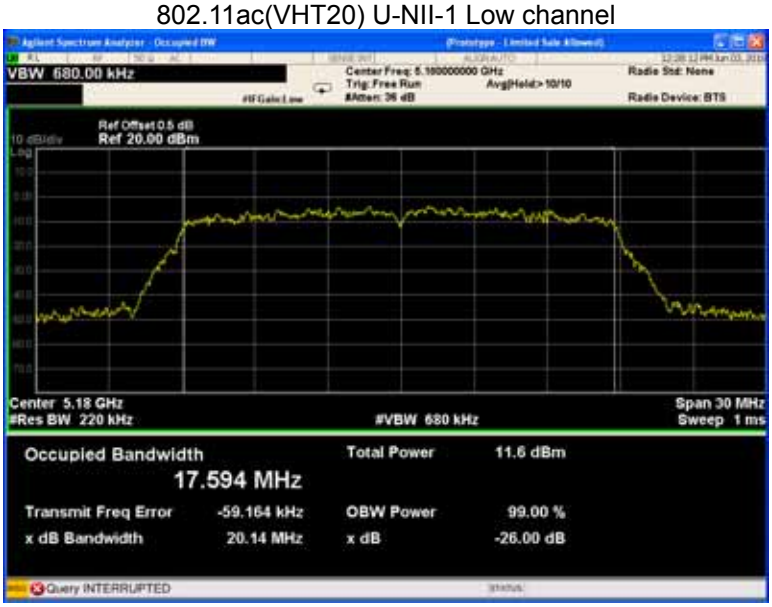
802.11n(HT20) U-NII-1 High channel

802.11n(HT40) U-NII-1 Low channel

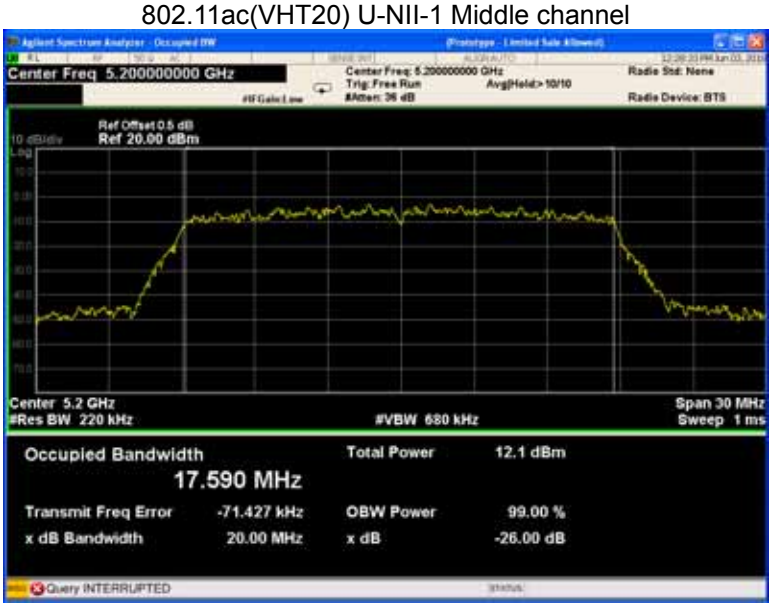


802.11n(HT40) U-NII-1 High channel

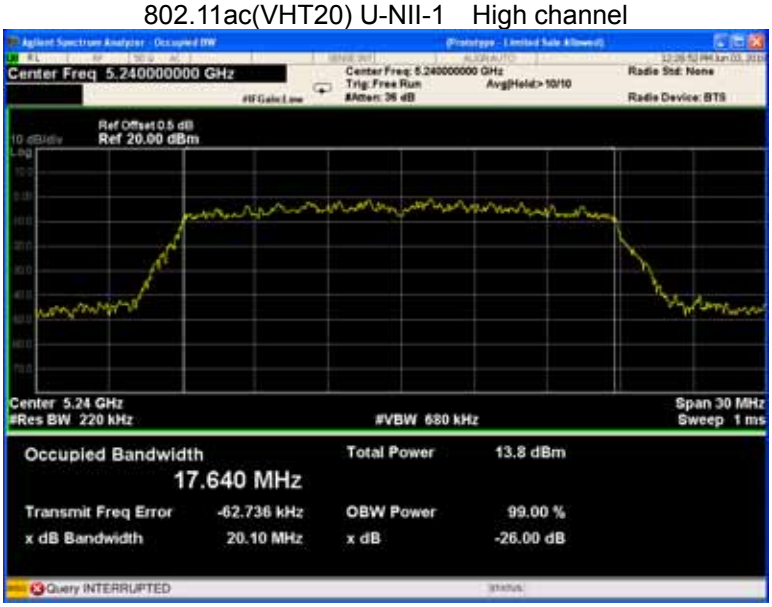
802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel

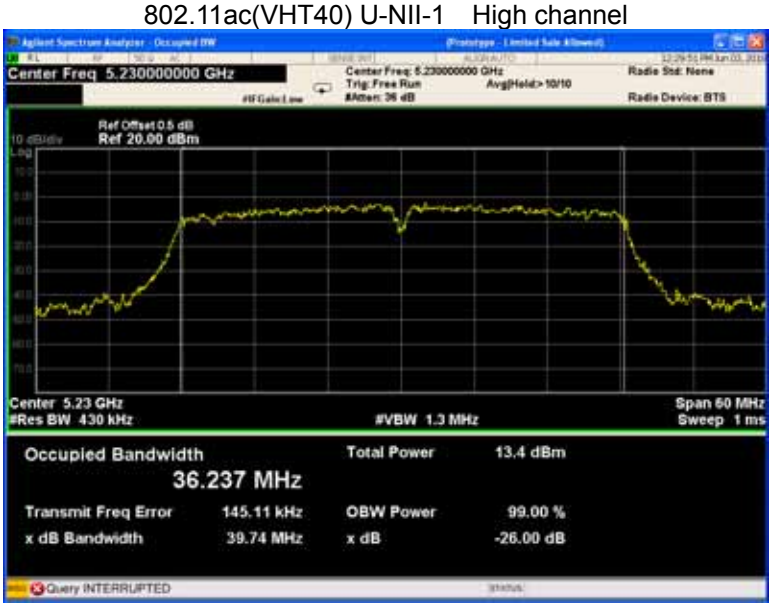


802.11ac(VHT20) U-NII-1 High channel

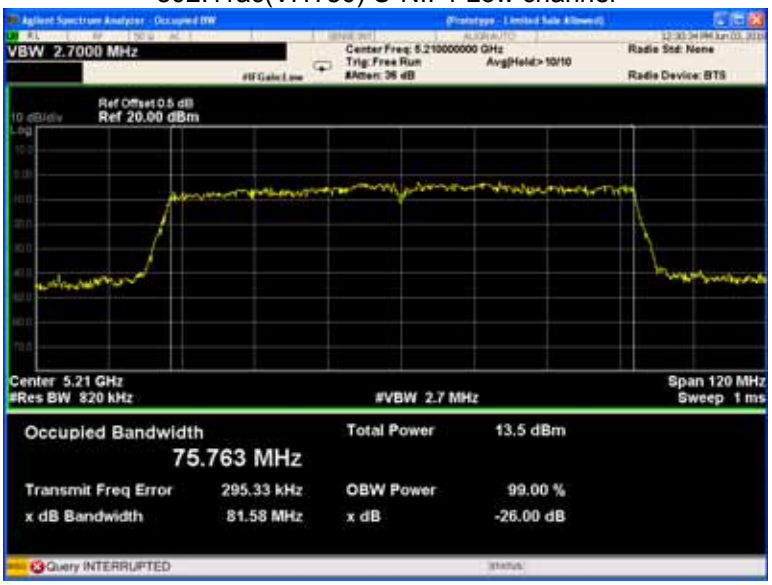


802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel



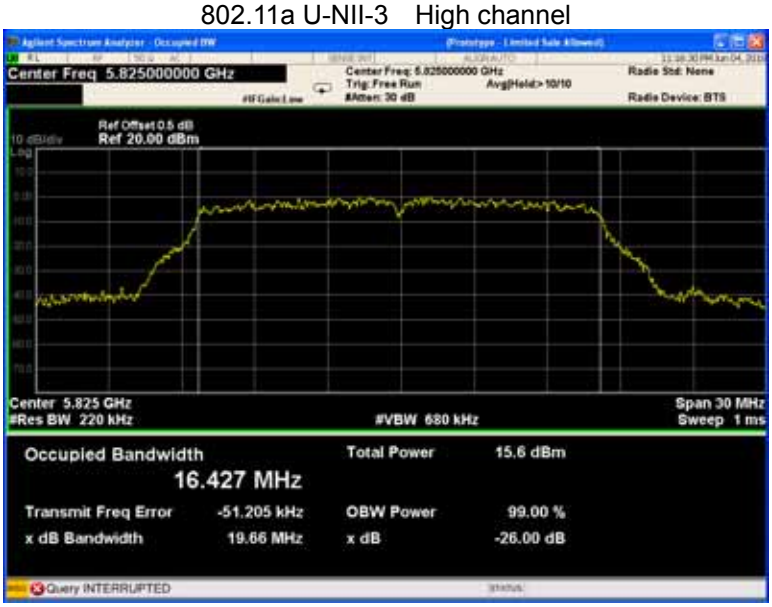
802.11ac(VHT80) U-NII-1 Low channel



802.11a U-NII-3 Low channel

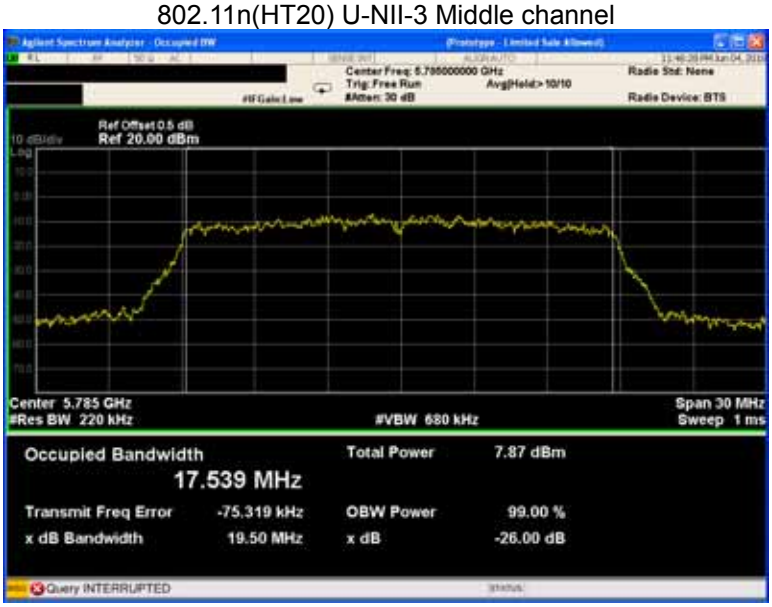
802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel



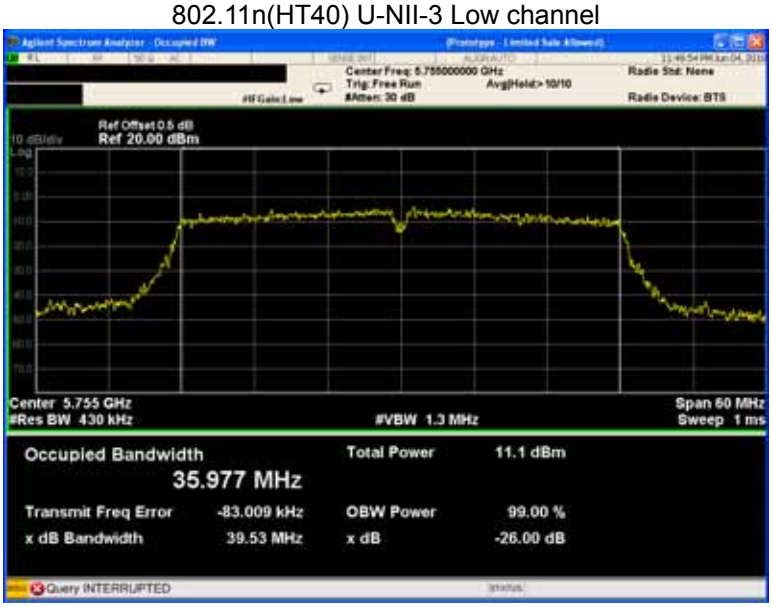
802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

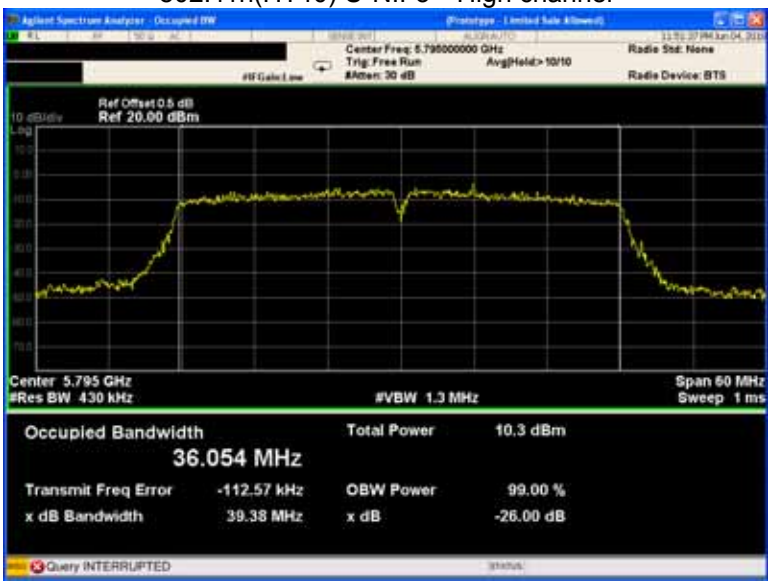


802.11n(HT20) U-NII-3 High channel

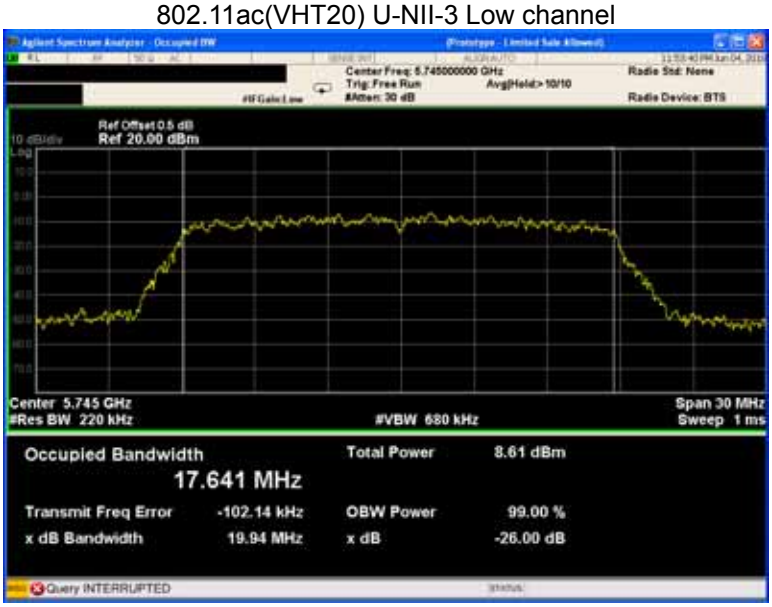
802.11n(HT40) U-NII-3 Low channel



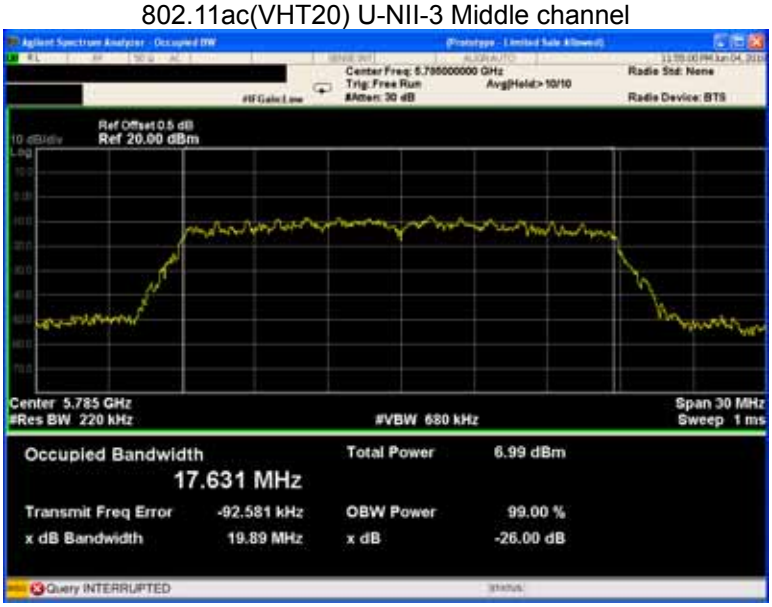
802.11n(HT40) U-NII-3 High channel



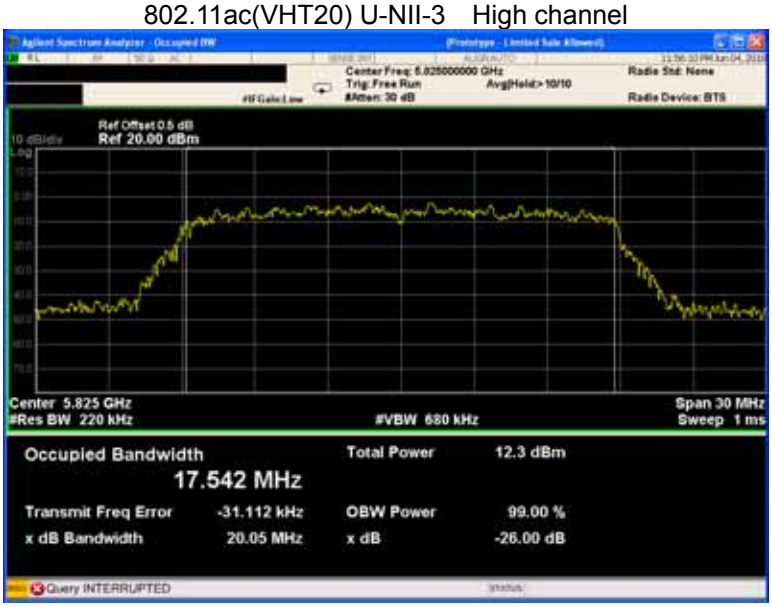
802.11ac(VHT20) U-NII-3 Low channel



802.11ac(VHT20) U-NII-3 Middle channel

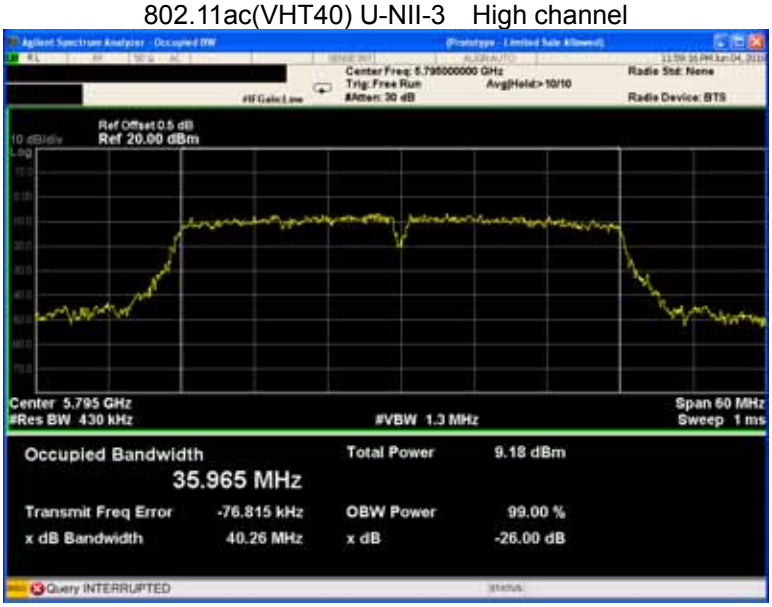


802.11ac(VHT20) U-NII-3 High channel



802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel

5. Conducted Output Power

5.1. Test Result :

Band	Operation mode	CH	Conducted Output Power (dBm)
			ANT3
U-NII-1	802.11a	Low	14.89
		Middle	14.84
		High	14.46
	802.11n(HT20)	Low	14.62
		Middle	14.36
		High	14.67
	802.11n(HT40)	Low	13.21
		Middle	/
		High	13.67
	802.11ac(VHT20)	Low	14.57
		Middle	14.45
		High	14.36
	802.11ac(VHT40)	Low	13.39
		Middle	/
		High	13.61
	802.11ac(VHT80)	Low	13.51
		Middle	/
		High	/
U-NII-3	802.11a	Low	16.75
		Middle	16.45
		High	16.23
	802.11n(HT20)	Low	16.51
		Middle	16.33
		High	16.49
	802.11n(HT40)	Low	15.65
		Middle	/
		High	15.32
	802.11ac(VHT20)	Low	16.27
		Middle	16.56
		High	16.60
	802.11ac(VHT40)	Low	15.35
		Middle	/
		High	15.41
	802.11ac(VHT80)	Low	14.66
		Middle	/
		High	/

.

Band	Operation mode	CH	Conducted Output Power (dBm)
			ANT4
U-NII-1	802.11a	Low	14.80
		Middle	14.76
		High	14.76
	802.11n(HT20)	Low	14.51
		Middle	14.50
		High	14.42
	802.11n(HT40)	Low	13.32
		Middle	/
		High	13.63
	802.11ac(VHT20)	Low	14.40
		Middle	14.26
		High	14.44
	802.11ac(VHT40)	Low	13.34
		Middle	/
		High	13.33
	802.11ac(VHT80)	Low	13.36
		Middle	/
		High	/
U-NII-3	802.11a	Low	16.28
		Middle	16.25
		High	16.26
	802.11n(HT20)	Low	16.46
		Middle	16.23
		High	16.61
	802.11n(HT40)	Low	15.60
		Middle	/
		High	15.38
	802.11ac(VHT20)	Low	16.19
		Middle	16.38
		High	16.54
	802.11ac(VHT40)	Low	15.31
		Middle	/
		High	15.26
	802.11ac(VHT80)	Low	14.50
		Middle	/
		High	/

Band	Operation mode	CH	Conducted Output Power (dBm)
			ANT5
U-NII-1	802.11a	Low	14.96
		Middle	14.45
		High	15.01
	802.11n(HT20)	Low	14.64
		Middle	14.53
		High	14.80
	802.11n(HT40)	Low	13.31
		Middle	/
		High	13.59
	802.11ac(VHT20)	Low	14.50
		Middle	14.43
		High	14.44
	802.11ac(VHT40)	Low	13.32
		Middle	/
		High	13.43
	802.11ac(VHT80)	Low	13.51
		Middle	/
		High	/
U-NII-3	802.11a	Low	16.58
		Middle	16.31
		High	16.45
	802.11n(HT20)	Low	16.65
		Middle	16.27
		High	16.62
	802.11n(HT40)	Low	15.54
		Middle	/
		High	15.33
	802.11ac(VHT20)	Low	16.33
		Middle	16.51
		High	16.53
	802.11ac(VHT40)	Low	15.10
		Middle	/
		High	15.27
	802.11ac(VHT80)	Low	14.47
		Middle	/
		High	/

Band	Operation mode	CH	Conducted Output Power (dBm)
			ANT6
U-NII-1	802.11a	Low	14.70
		Middle	14.84
		High	14.88
	802.11n(HT20)	Low	14.54
		Middle	14.56
		High	14.50
	802.11n(HT40)	Low	13.39
		Middle	/
		High	13.80
	802.11ac(VHT20)	Low	14.36
		Middle	14.43
		High	14.51
	802.11ac(VHT40)	Low	13.21
		Middle	/
		High	13.37
	802.11ac(VHT80)	Low	13.51
		Middle	/
		High	/
U-NII-3	802.11a	Low	16.59
		Middle	16.36
		High	16.47
	802.11n(HT20)	Low	16.35
		Middle	16.35
		High	16.40
	802.11n(HT40)	Low	15.90
		Middle	/
		High	15.43
	802.11ac(VHT20)	Low	16.33
		Middle	16.39
		High	16.35
	802.11ac(VHT40)	Low	15.21
		Middle	/
		High	15.24
	802.11ac(VHT80)	Low	14.47
		Middle	/
		High	/

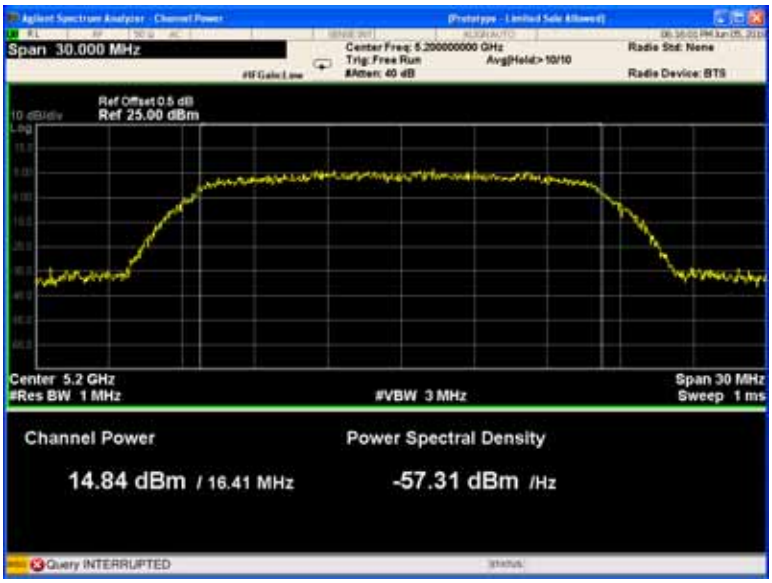
Band	Operation mode	CH	Conducted Output Power (dBm)
			ANT3+ANT4+ANT5+ANT6
U-NII-1	802.11a	Low	20.86
		Middle	20.75
		High	20.80
	802.11n(HT20)	Low	20.60
		Middle	20.51
		High	20.62
	802.11n(HT40)	Low	19.33
		Middle	/
		High	19.69
	802.11ac(VHT20)	Low	20.48
		Middle	20.41
		High	20.46
	802.11ac(VHT40)	Low	19.34
		Middle	/
		High	19.46
	802.11ac(VHT80)	Low	19.49
		Middle	/
		High	/
U-NII-3	802.11a	Low	22.57
		Middle	22.36
		High	22.37
	802.11n(HT20)	Low	22.51
		Middle	22.32
		High	22.55
	802.11n(HT40)	Low	21.70
		Middle	/
		High	21.39
	802.11ac(VHT20)	Low	22.30
		Middle	22.48
		High	22.53
	802.11ac(VHT40)	Low	21.26
		Middle	/
		High	21.32
	802.11ac(VHT80)	Low	20.71
		Middle	/
		High	/

Test result plots shown as follows:

ANT3

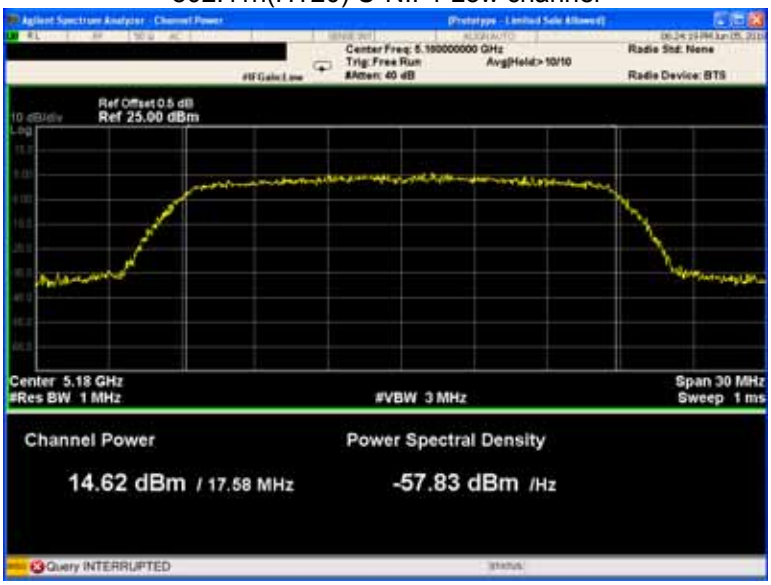
802.11a U-NII-1 Low channel

802.11a U-NII-1 Middle channel



802.11a U-NII-1 High channel

802.11n(HT20) U-NII-1 Low channel



802.11n(HT20) U-NII-1 Middle channel

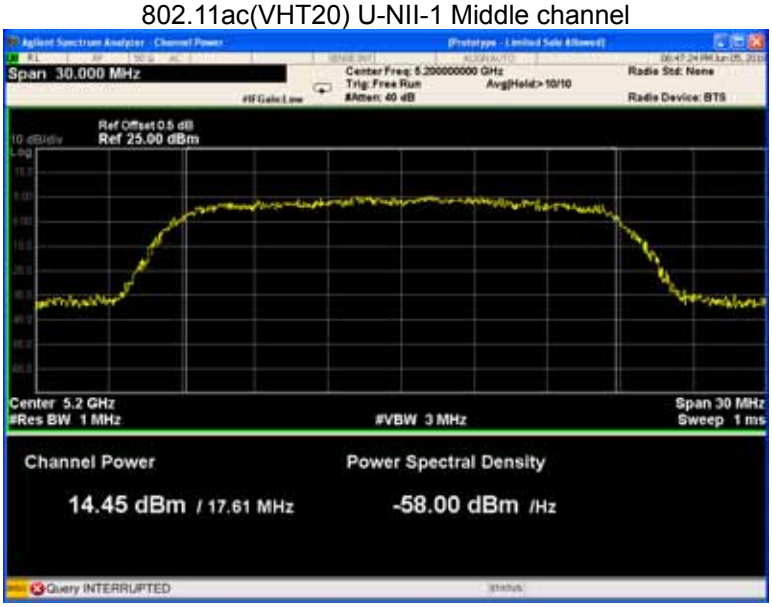
802.11n(HT20) U-NII-1 High channel

802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel

802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

802.11a U-NII-3 Low channel

802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel

802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

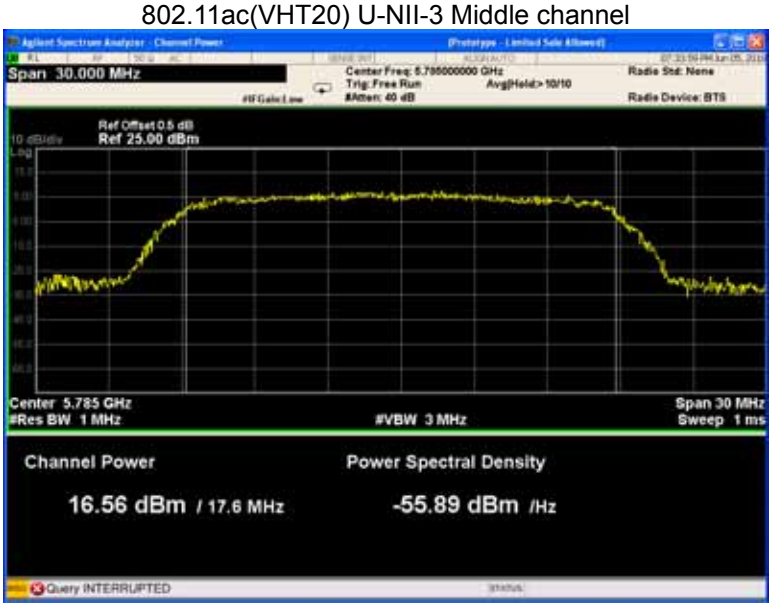
802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel

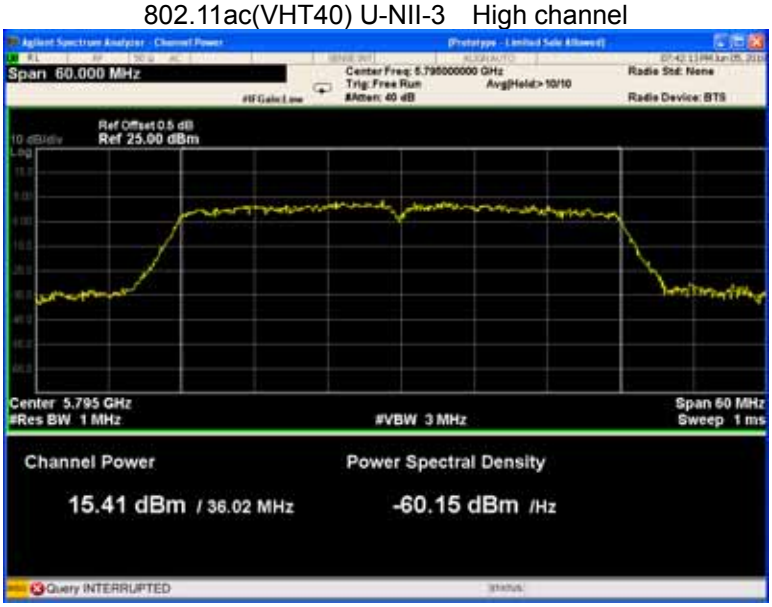
802.11ac(VHT20) U-NII-3 Middle channel



802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel

ANT4

802.11a U-NII-1 Low channel

802.11a U-NII-1 Middle channel

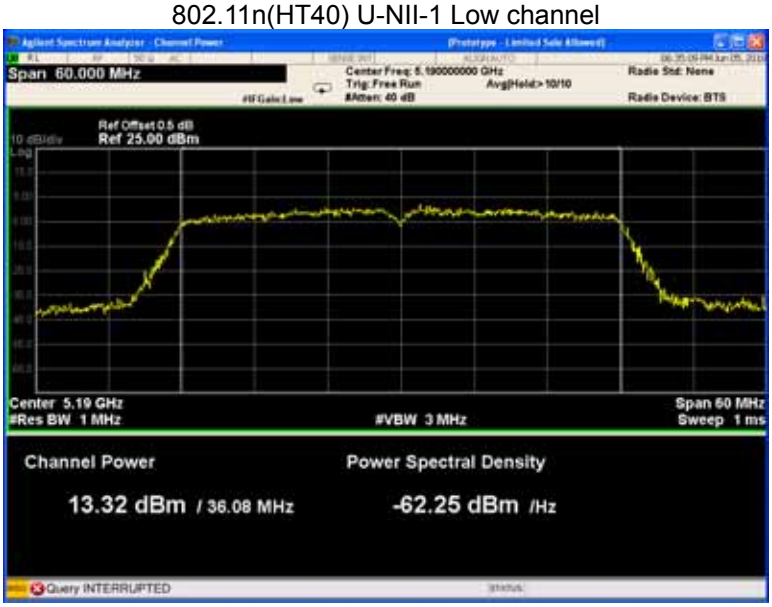
802.11a U-NII-1 High channel

802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel

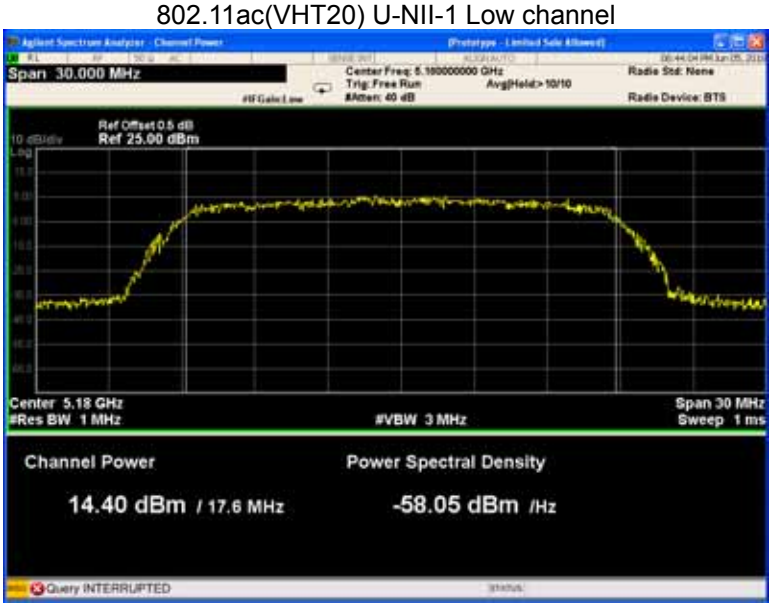
802.11n(HT20) U-NII-1 High channel

802.11n(HT40) U-NII-1 Low channel

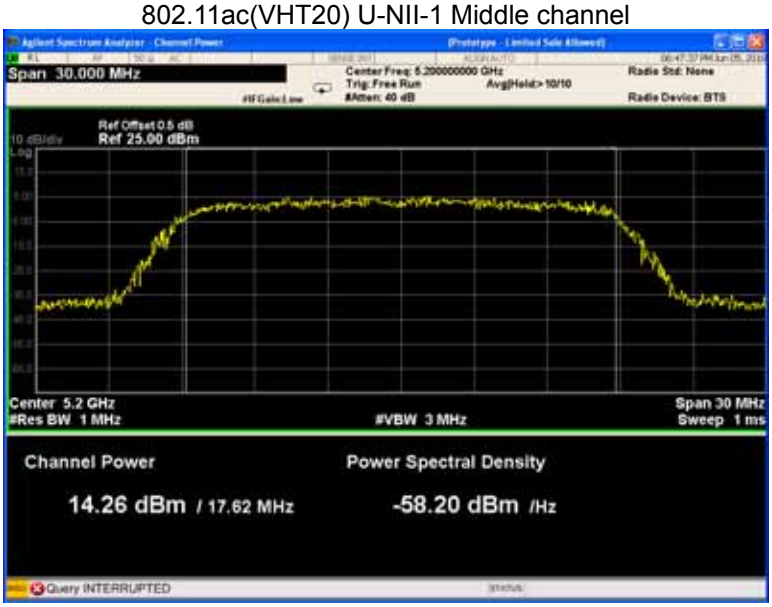


802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

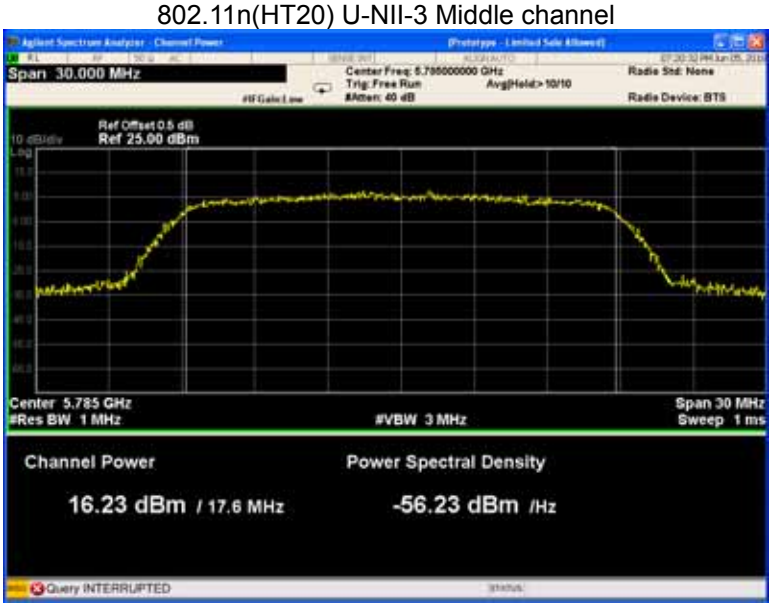
802.11a U-NII-3 Low channel

802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel

802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

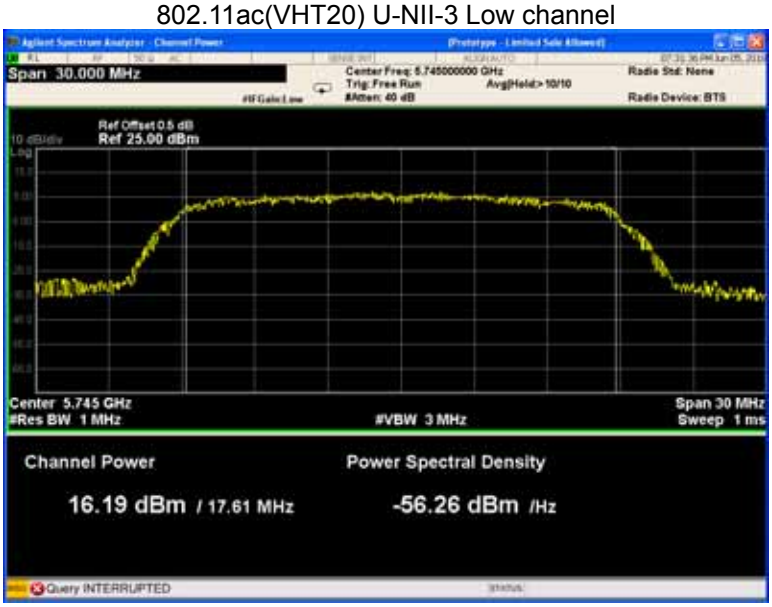


802.11n(HT20) U-NII-3 High channel

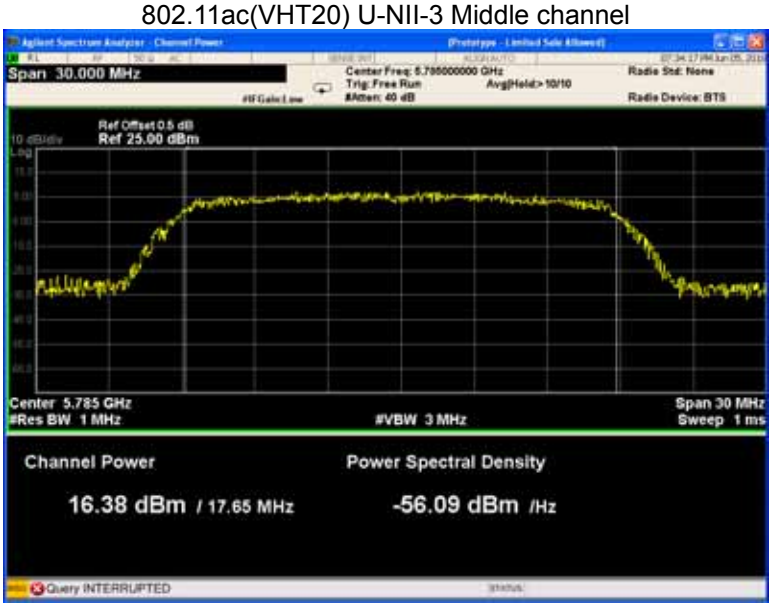
802.11n(HT40) U-NII-3 Low channel

802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel



802.11ac(VHT20) U-NII-3 Middle channel



802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel

802.11ac(VHT80) U-NII-3 Low channel

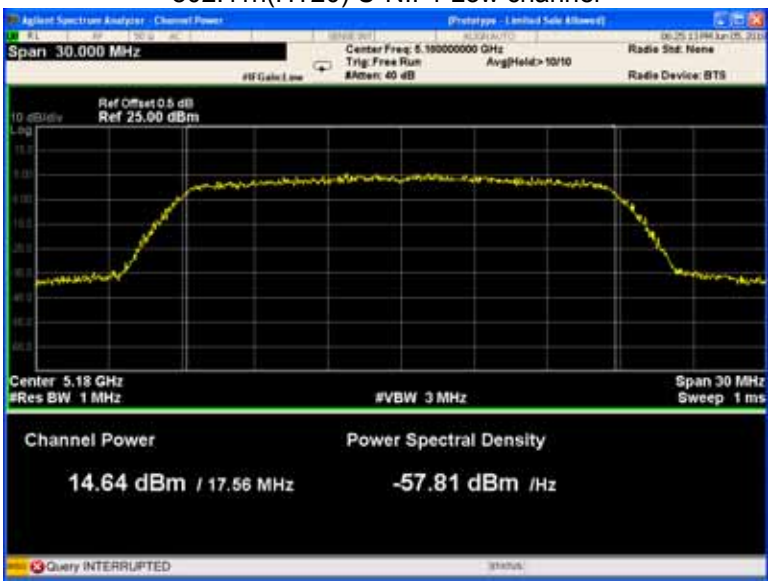
ANT5

802.11a U-NII-1 Low channel

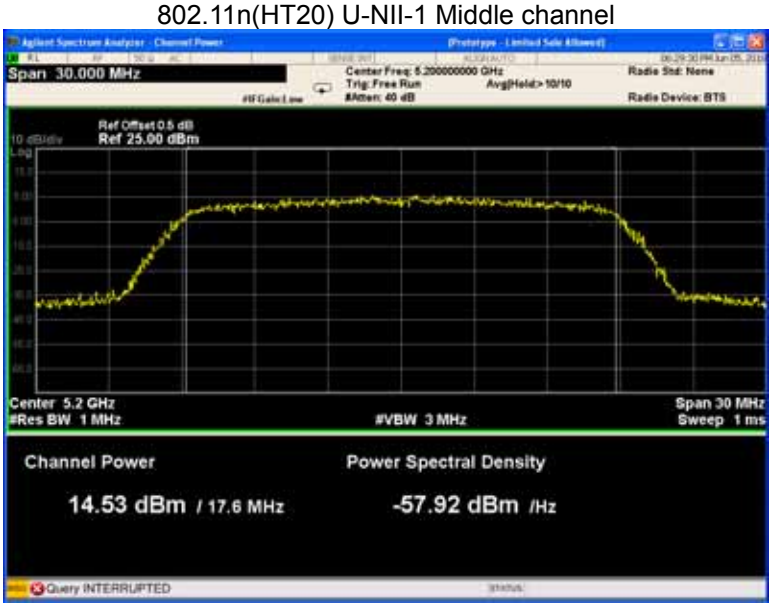
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel

802.11n(HT20) U-NII-1 Low channel



802.11n(HT20) U-NII-1 Middle channel



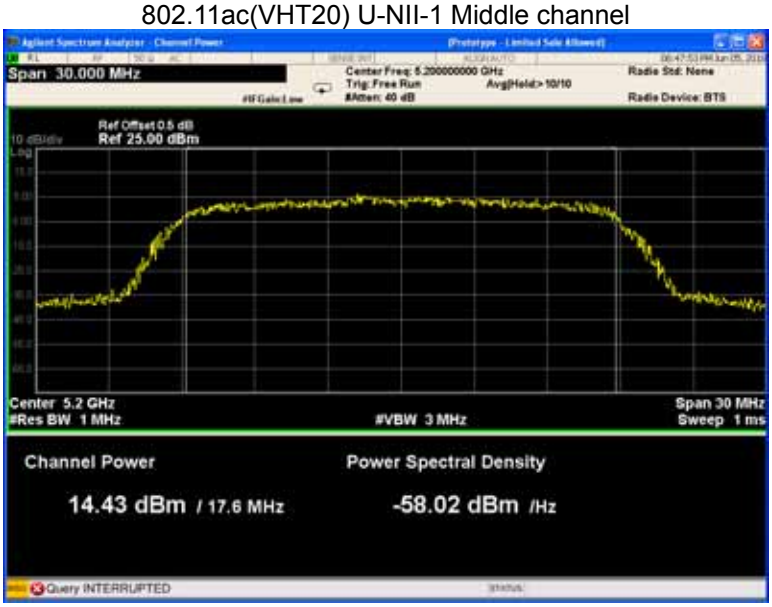
802.11n(HT20) U-NII-1 High channel

802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel

802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

802.11a U-NII-3 Low channel

802.11a U-NII-3 Middle channel

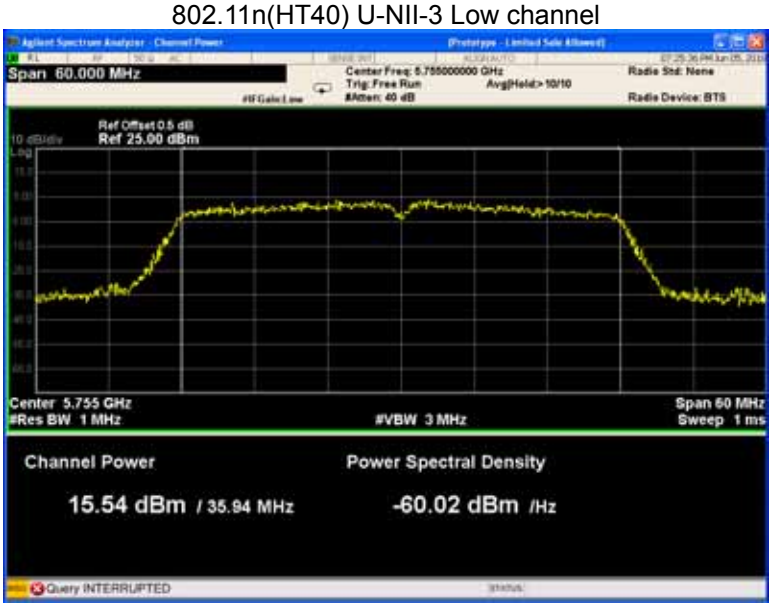
802.11a U-NII-3 High channel

802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

802.11n(HT20) U-NII-3 High channel

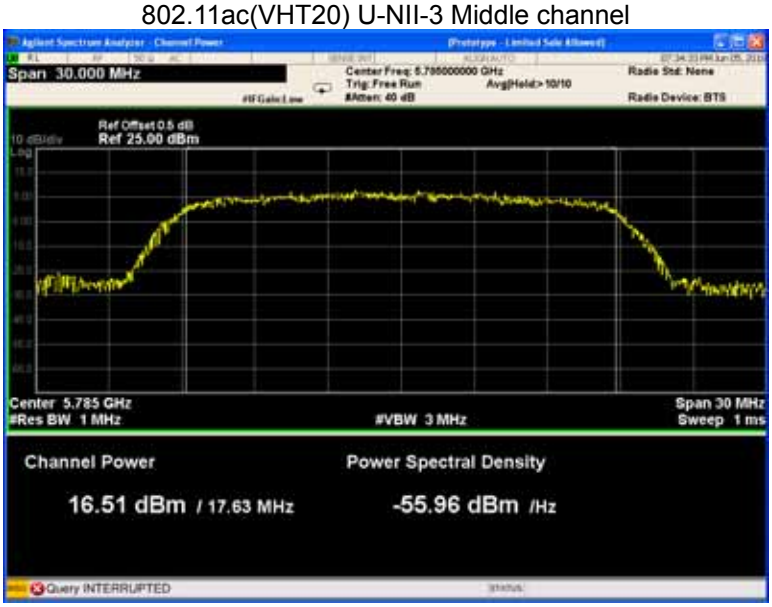
802.11n(HT40) U-NII-3 Low channel



802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel

802.11ac(VHT20) U-NII-3 Middle channel



802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel

802.11ac(VHT80) U-NII-3 Low channel

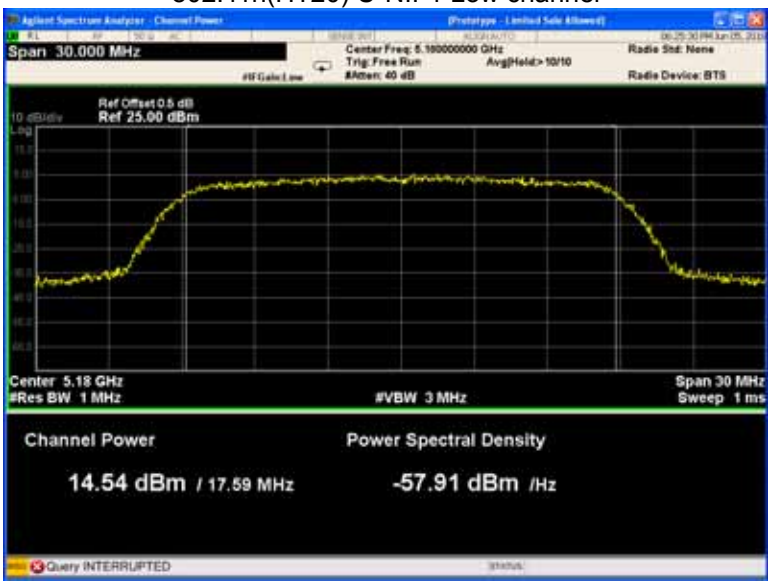
ANT6

802.11a U-NII-1 Low channel

802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel

802.11n(HT20) U-NII-1 Low channel



802.11n(HT20) U-NII-1 Middle channel

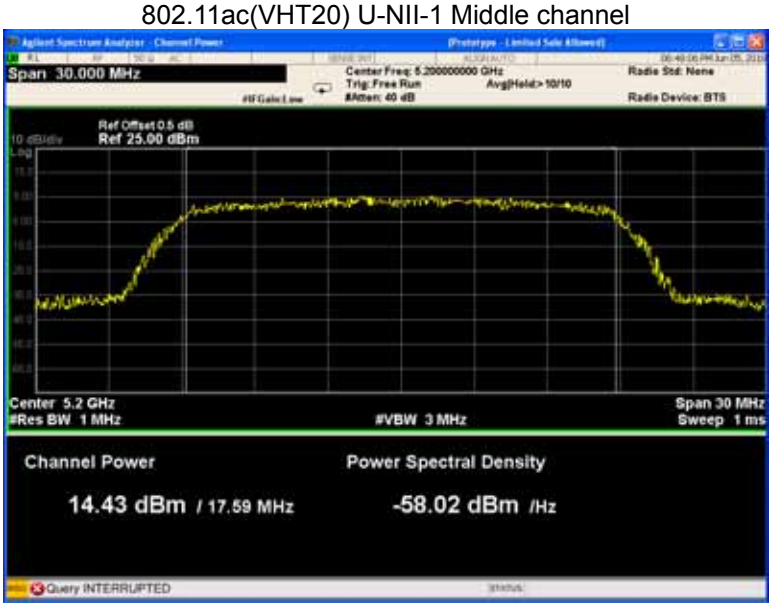
802.11n(HT20) U-NII-1 High channel

802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel

802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

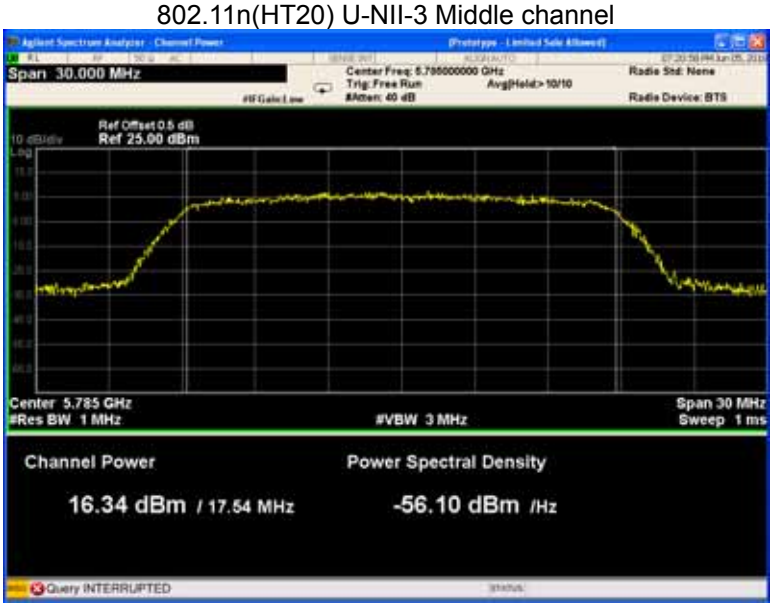
802.11a U-NII-3 Low channel

802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel

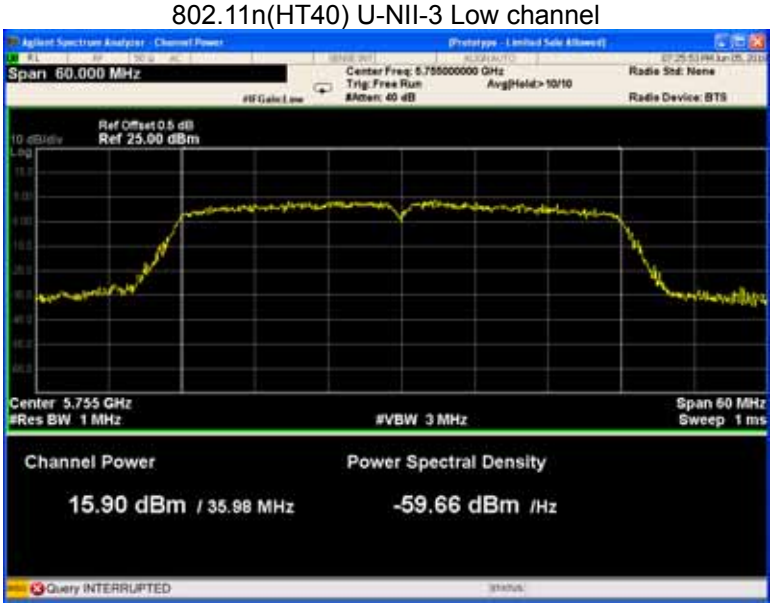
802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel



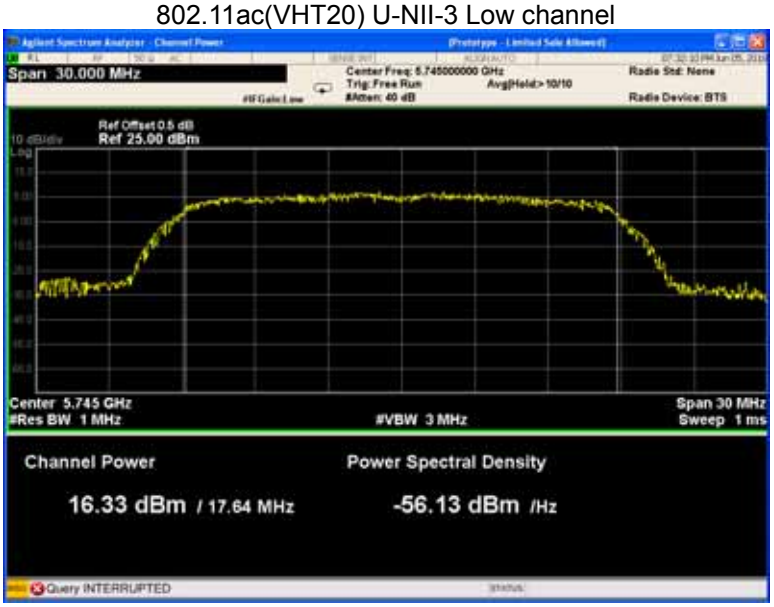
802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

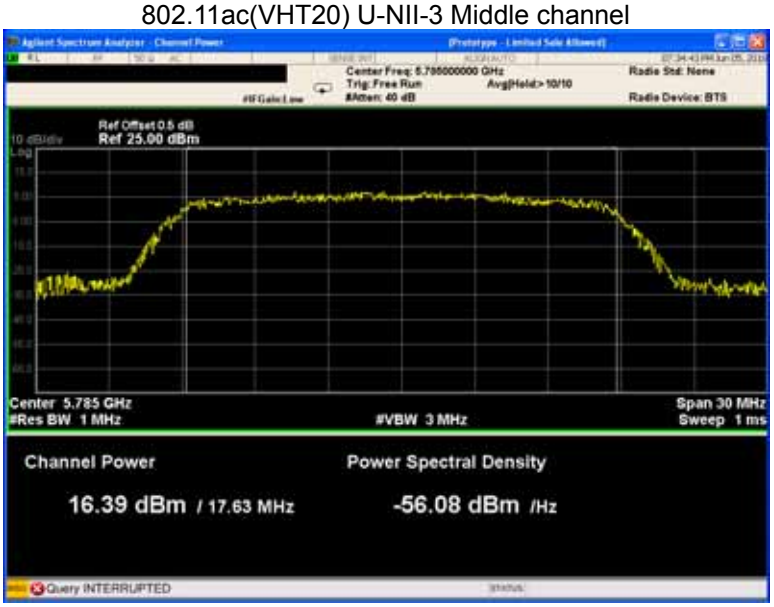


802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel



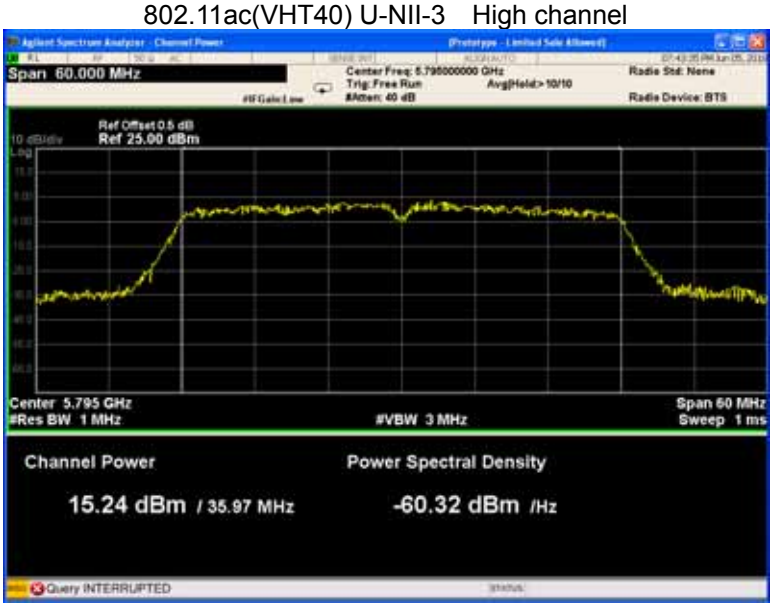
802.11ac(VHT20) U-NII-3 Middle channel



802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel

6. Power Spectral density

6.1. Test Result:

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)
			ANT3
U-NII-1	802.11a	Low	4.090
		Middle	3.365
		High	4.194
	802.11n(HT20)	Low	3.195
		Middle	3.726
		High	3.363
	802.11n(HT40)	Low	0.757
		Middle	/
		High	-0.419
	802.11ac(VHT20)	Low	3.165
		Middle	3.939
		High	3.203
	802.11ac(VHT40)	Low	-0.035
		Middle	/
		High	0.614
	802.11ac(VHT80)	Low	-1.706
		Middle	/
		High	/
	Limit	≤11.00dBm/MHz	
U-NII-3	802.11a	Low	2.277
		Middle	1.566
		High	1.440
	802.11n(HT20)	Low	1.246
		Middle	0.433
		High	2.369
	802.11n(HT40)	Low	-1.089
		Middle	/
		High	-0.339
	802.11ac(VHT20)	Low	1.668
		Middle	0.679
		High	1.549
	802.11ac(VHT40)	Low	-1.703
		Middle	/
		High	-1.605
	802.11ac(VHT80)	Low	-4.494
		Middle	/
		High	/
	Limit	≤30.00dBm/500KHz	

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)
			ANT4
U-NII-1	802.11a	Low	4.055
		Middle	3.401
		High	4.593
	802.11n(HT20)	Low	3.505
		Middle	3.771
		High	3.200
	802.11n(HT40)	Low	0.901
		Middle	/
		High	-0.018
	802.11ac(VHT20)	Low	4.081
		Middle	3.927
		High	3.778
	802.11ac(VHT40)	Low	0.147
		Middle	/
		High	0.744
	802.11ac(VHT80)	Low	-1.194
		Middle	/
		High	/
	Limit	≤11.00dBm/MHz	
U-NII-3	802.11a	Low	1.796
		Middle	1.878
		High	1.834
	802.11n(HT20)	Low	1.246
		Middle	-0.374
		High	2.146
	802.11n(HT40)	Low	-1.278
		Middle	/
		High	-0.723
	802.11ac(VHT20)	Low	1.210
		Middle	0.416
		High	1.027
	802.11ac(VHT40)	Low	-1.701
		Middle	/
		High	-1.651
	802.11ac(VHT80)	Low	-4.407
		Middle	/
		High	/
	Limit	≤30.00dBm/500KHz	

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)
			ANT5
U-NII-1	802.11a	Low	3.891
		Middle	3.414
		High	4.251
	802.11n(HT20)	Low	3.179
		Middle	3.761
		High	3.411
	802.11n(HT40)	Low	0.711
		Middle	/
		High	0.135
	802.11ac(VHT20)	Low	2.846
		Middle	3.831
		High	3.273
	802.11ac(VHT40)	Low	-0.659
		Middle	/
		High	0.720
	802.11ac(VHT80)	Low	-1.762
		Middle	/
		High	/
	Limit	≤11.00dBm/MHz	
U-NII-3	802.11a	Low	2.067
		Middle	1.048
		High	0.285
	802.11n(HT20)	Low	1.913
		Middle	0.187
		High	2.117
	802.11n(HT40)	Low	-0.970
		Middle	/
		High	-0.467
	802.11ac(VHT20)	Low	1.973
		Middle	1.612
		High	0.632
	802.11ac(VHT40)	Low	-1.653
		Middle	/
		High	-1.223
	802.11ac(VHT80)	Low	-3.760
		Middle	/
		High	/
	Limit	≤30.00dBm/500KHz	

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)
			ANT6
U-NII-1	802.11a	Low	3.657
		Middle	3.643
		High	4.015
	802.11n(HT20)	Low	3.613
		Middle	3.704
		High	3.450
	802.11n(HT40)	Low	0.226
		Middle	/
		High	-0.485
	802.11ac(VHT20)	Low	3.985
		Middle	4.067
		High	3.719
	802.11ac(VHT40)	Low	0.494
		Middle	/
		High	1.133
	802.11ac(VHT80)	Low	-2.626
		Middle	/
		High	/
	Limit	≤11.00dBm/MHz	
U-NII-3	802.11a	Low	1.780
		Middle	1.564
		High	0.577
	802.11n(HT20)	Low	1.258
		Middle	0.207
		High	1.758
	802.11n(HT40)	Low	-0.427
		Middle	/
		High	-1.168
	802.11ac(VHT20)	Low	1.124
		Middle	0.740
		High	0.455
	802.11ac(VHT40)	Low	-1.675
		Middle	/
		High	-0.720
	802.11ac(VHT80)	Low	4.378
		Middle	/
		High	/
	Limit	≤30.00dBm/500KHz	

Band	Operation mode	CH	Power Spectral Density (dBm/MHz)
			ANT3+ANT4+ANT5+ANT6
U-NII-1	802.11a	Low	9.95
		Middle	9.48
		High	10.29
	802.11n(HT20)	Low	9.40
		Middle	9.76
		High	9.38
	802.11n(HT40)	Low	6.68
		Middle	/
		High	5.83
	802.11ac(VHT20)	Low	9.57
		Middle	9.96
		High	9.52
	802.11ac(VHT40)	Low	6.03
		Middle	/
		High	6.83
	802.11ac(VHT80)	Low	4.23
		Middle	/
		High	/
	Limit	≤11.00dBm/MHz	
U-NII-3	802.11a	Low	8.01
		Middle	7.54
		High	7.10
	802.11n(HT20)	Low	7.45
		Middle	6.14
		High	8.12
	802.11n(HT40)	Low	5.09
		Middle	/
		High	5.36
	802.11ac(VHT20)	Low	7.53
		Middle	6.91
		High	6.96
	802.11ac(VHT40)	Low	4.34
		Middle	/
		High	4.74
	802.11ac(VHT80)	Low	5.89
		Middle	/
		High	/
	Limit	≤30.00dBm/500KHz	

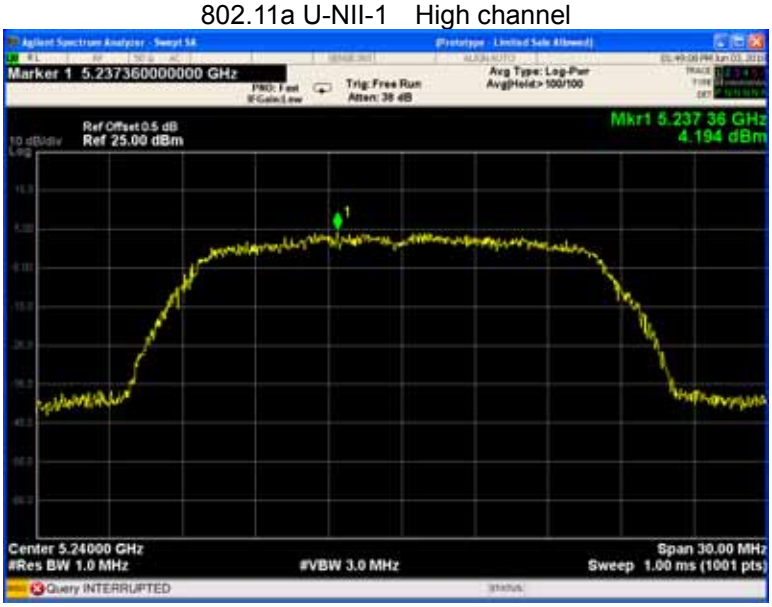
Test result plots shown as follows:

ANT3

802.11a U-NII-1 Low channel

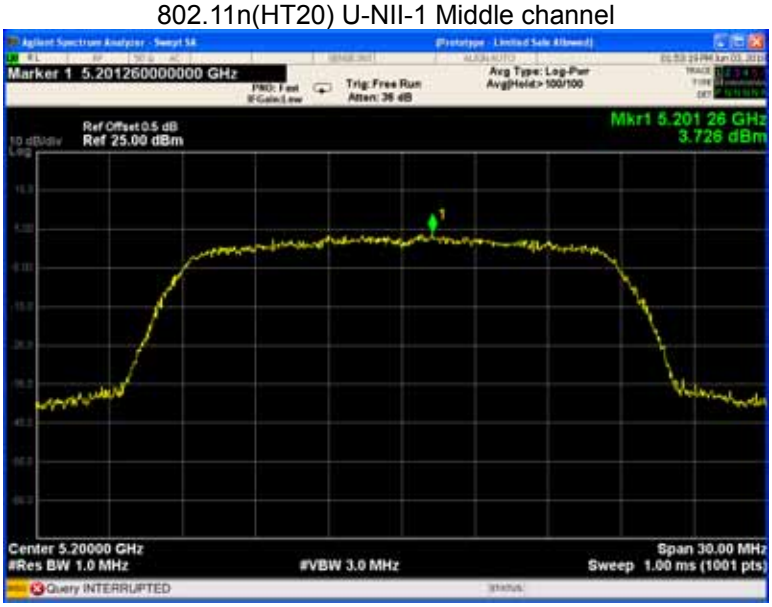
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel



802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel

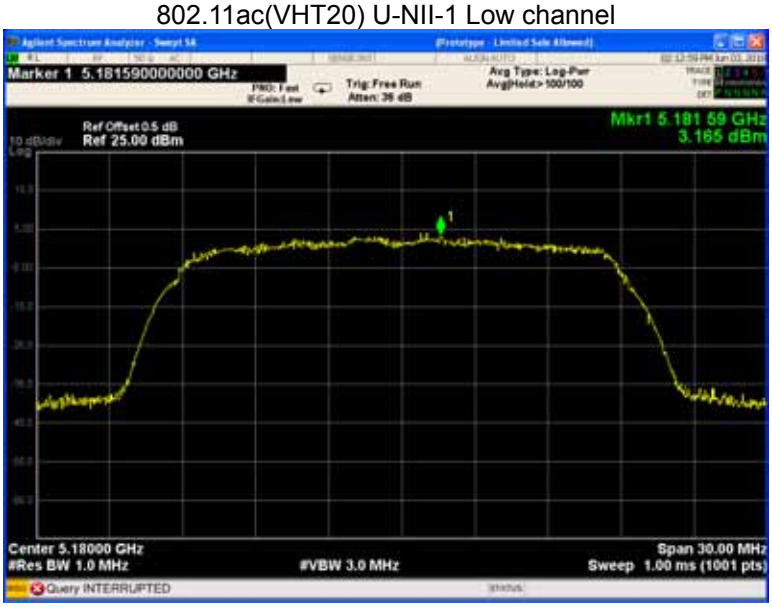


802.11n(HT20) U-NII-1 High channel

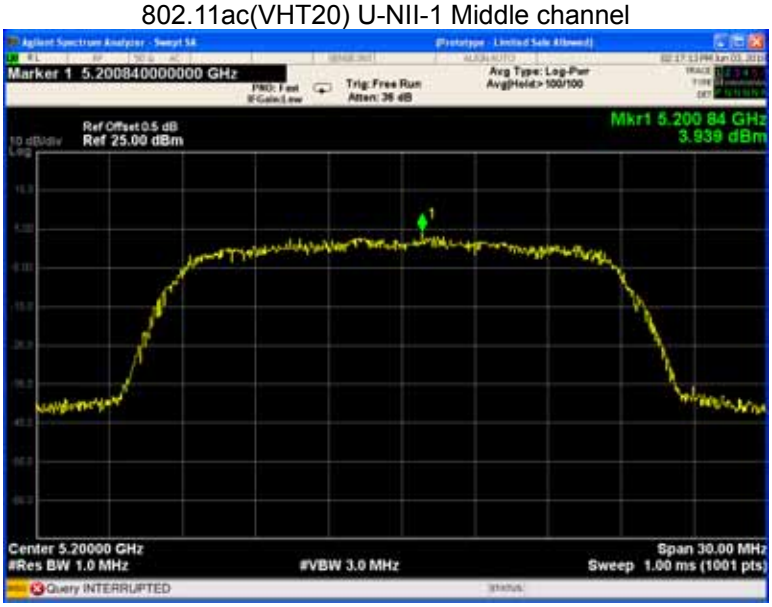
802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

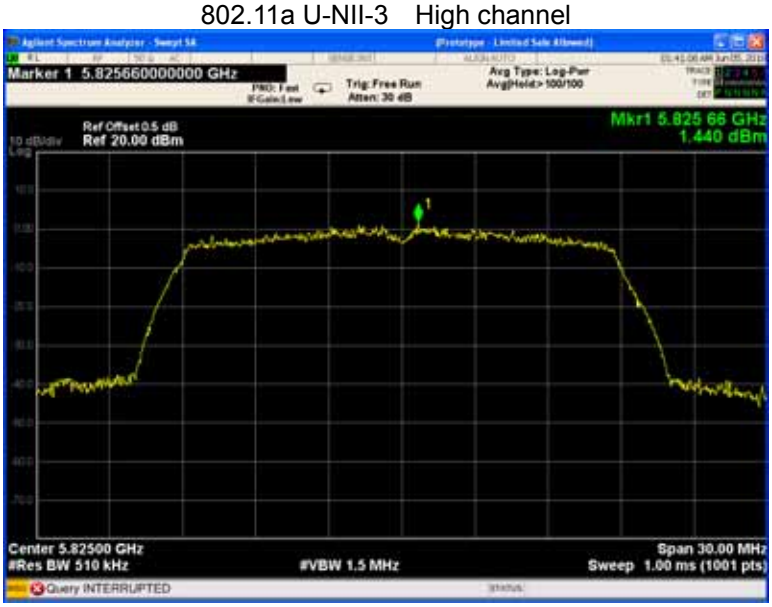
802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

802.11a U-NII-3 Low channel

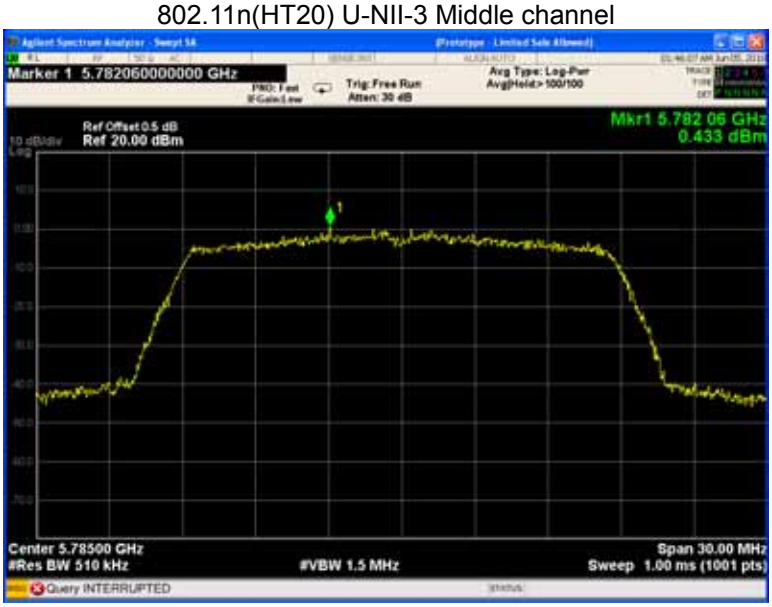
802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel



802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

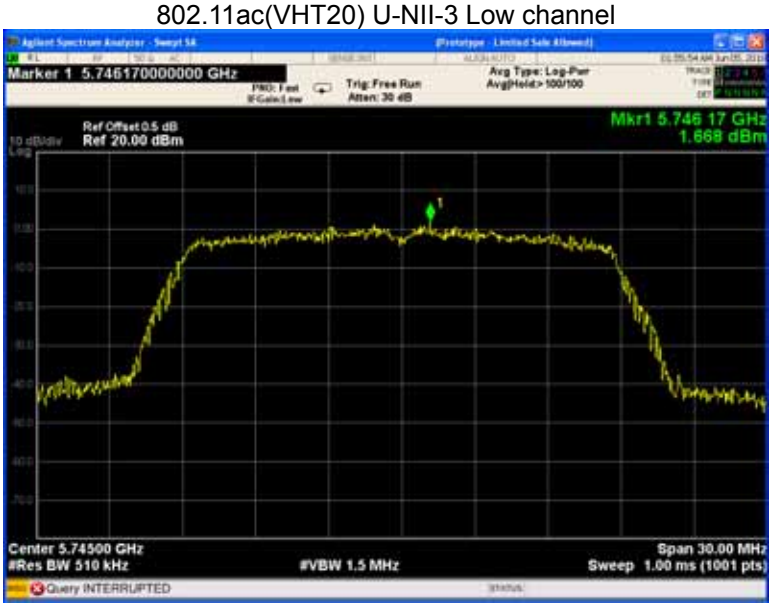


802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

802.11n(HT40) U-NII-3 High channel

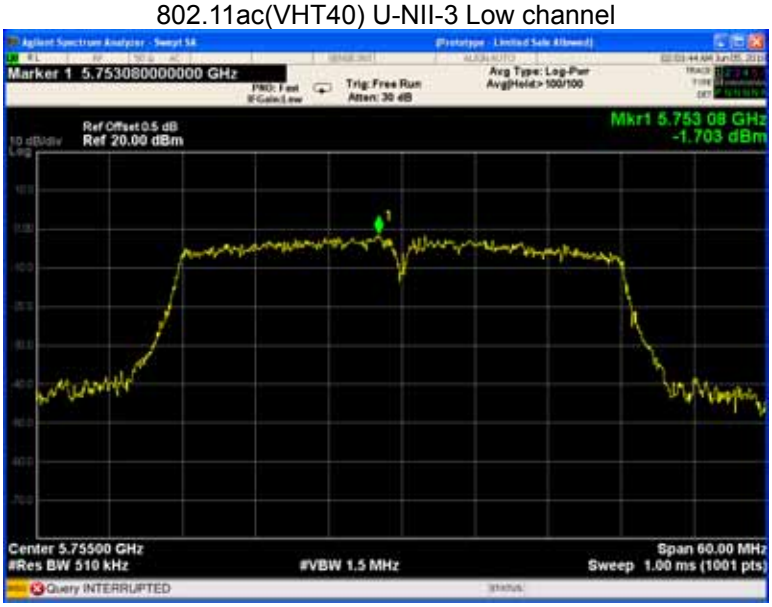
802.11ac(VHT20) U-NII-3 Low channel



802.11ac(VHT20) U-NII-3 Middle channel

802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel

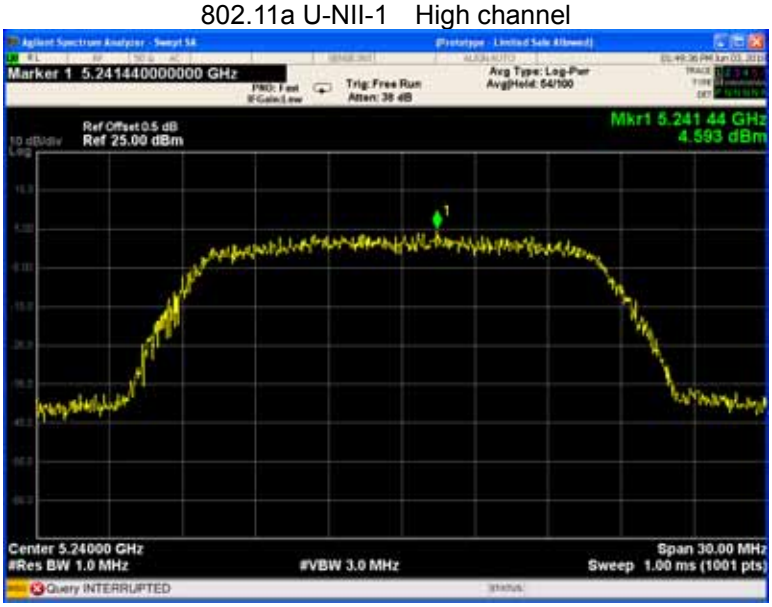
802.11ac(VHT80) U-NII-3 Low channel

ANT4

802.11a U-NII-1 Low channel

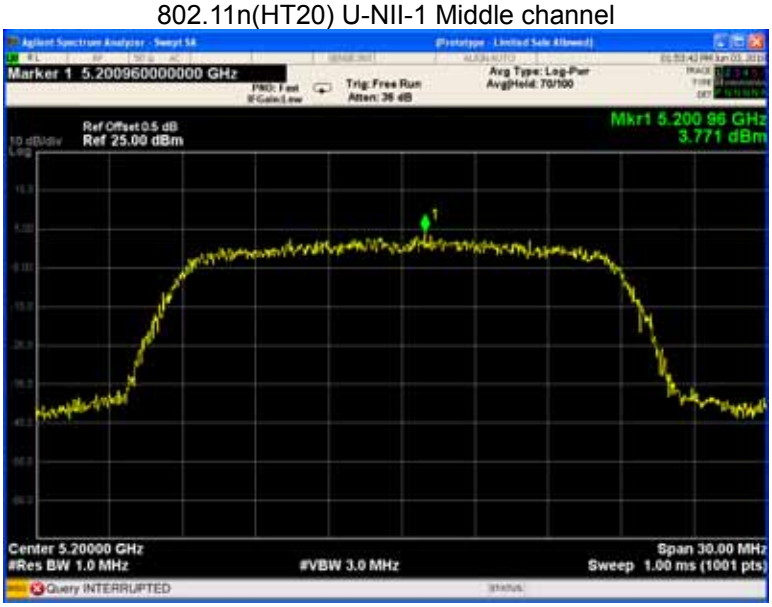
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel



802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel

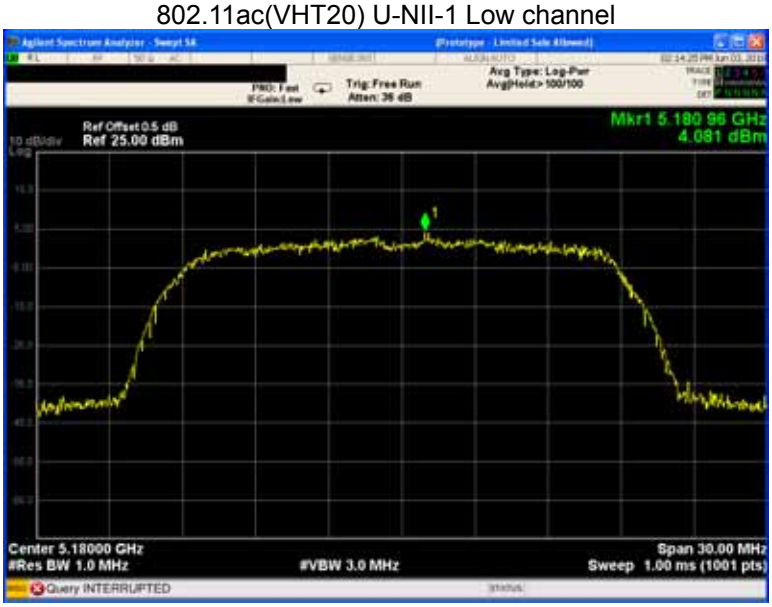


802.11n(HT20) U-NII-1 High channel

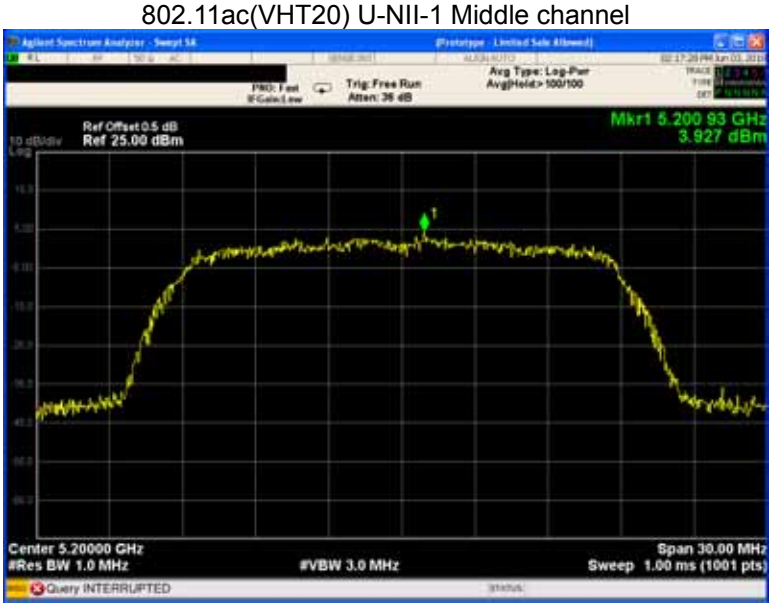
802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel



802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

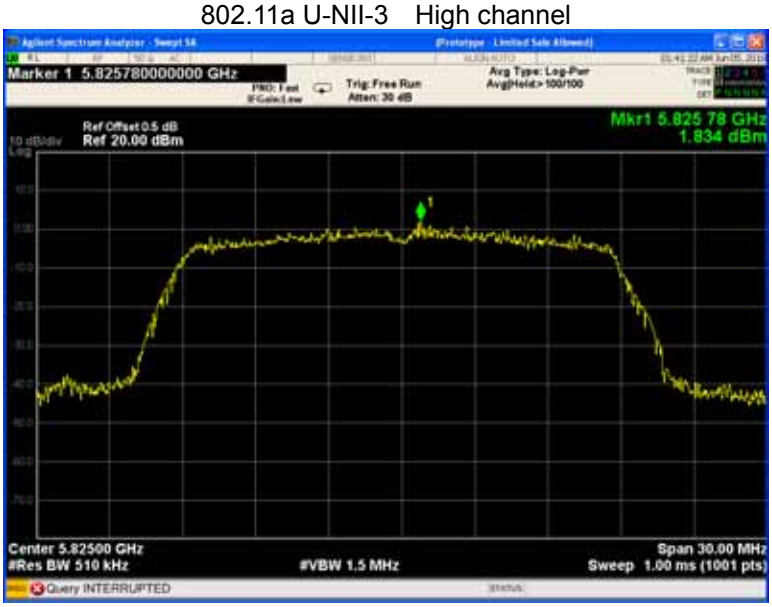
802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel

802.11a U-NII-3 Low channel

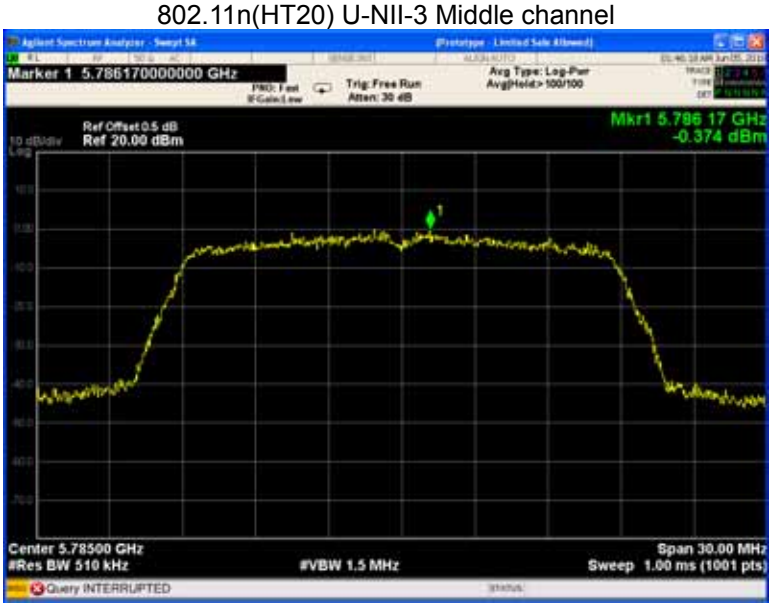
802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel



802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

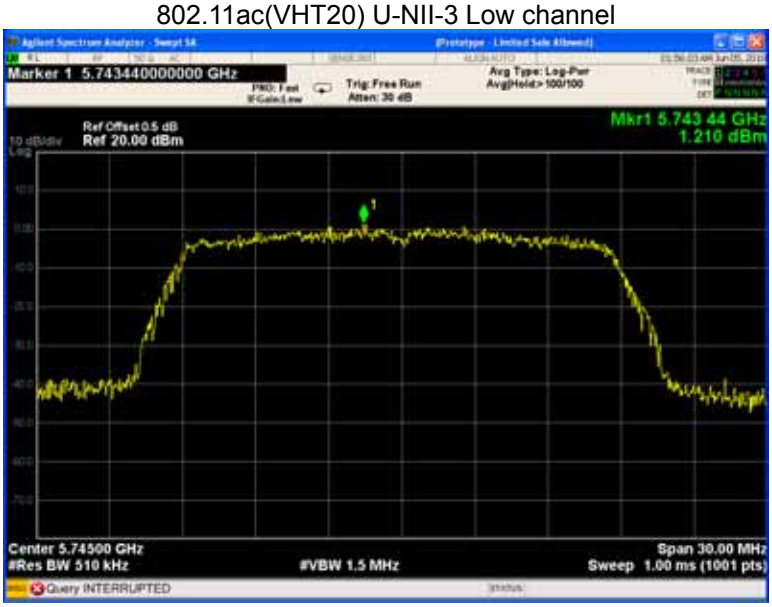


802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

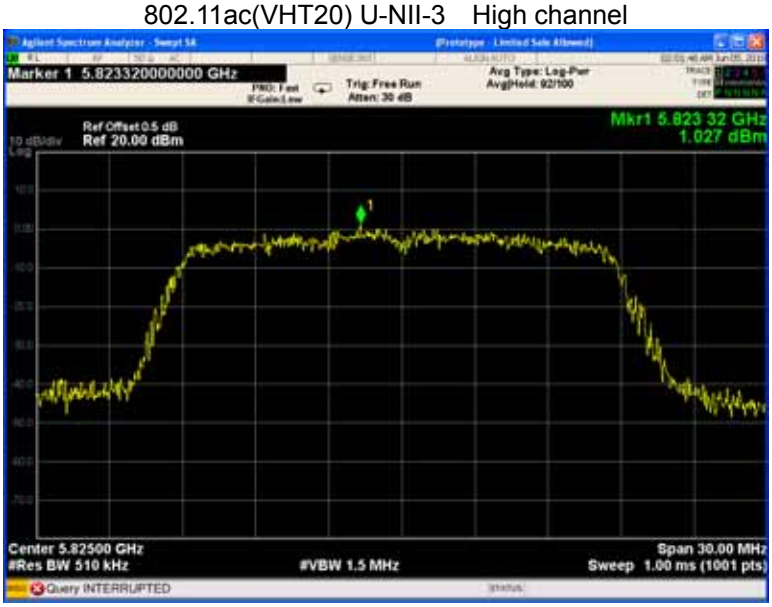
802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel



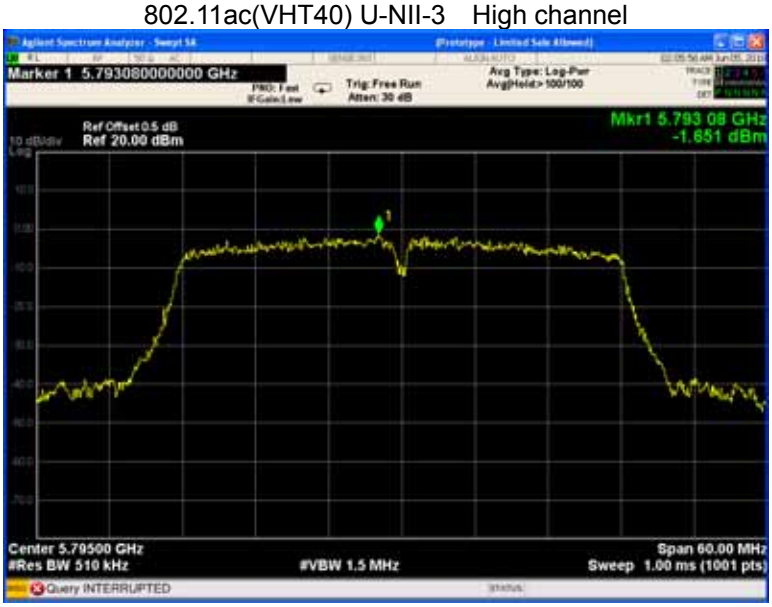
802.11ac(VHT20) U-NII-3 Middle channel

802.11ac(VHT20) U-NII-3 High channel



802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel



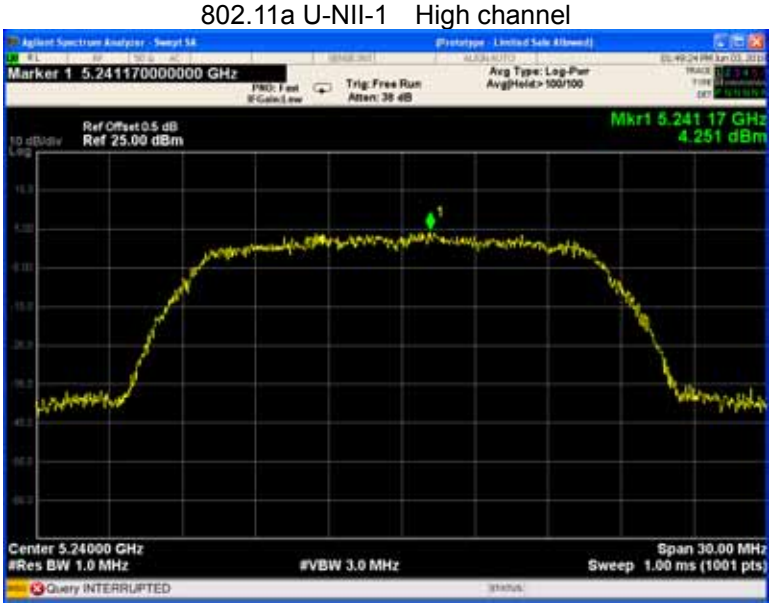
802.11ac(VHT80) U-NII-3 Low channel

ANT5

802.11a U-NII-1 Low channel

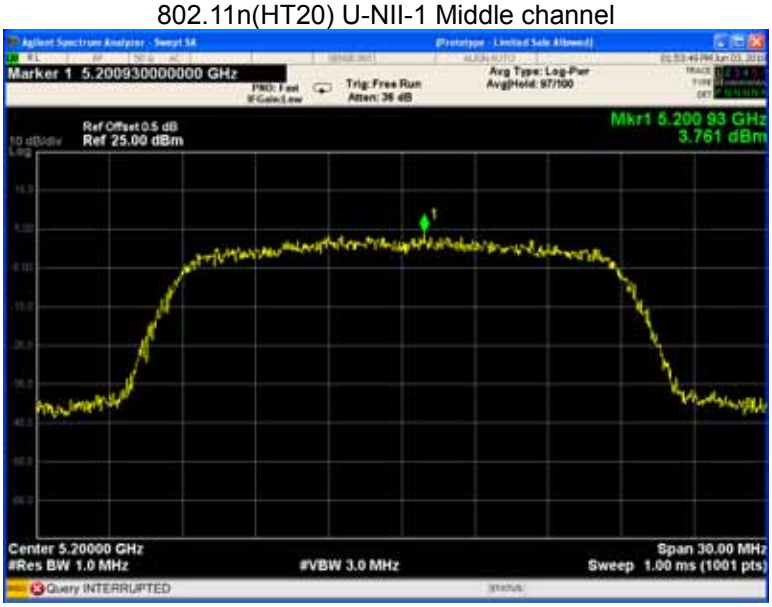
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel



802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel

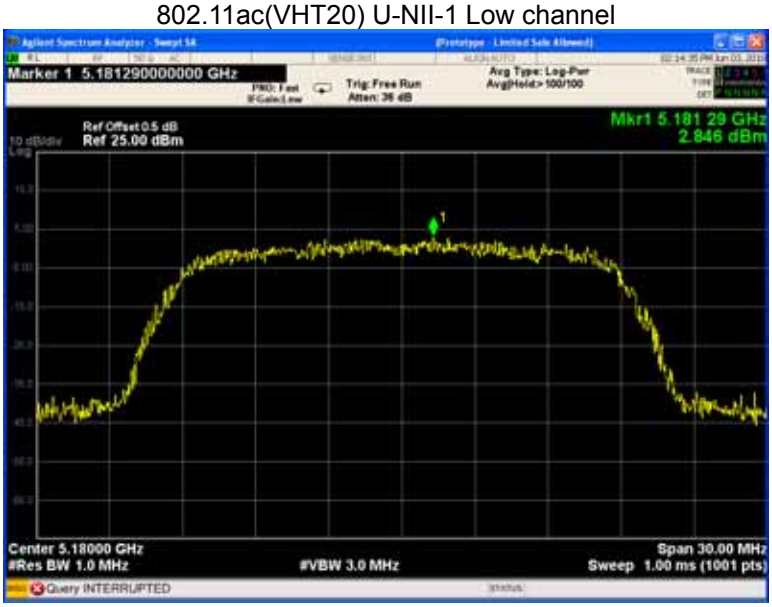


802.11n(HT20) U-NII-1 High channel

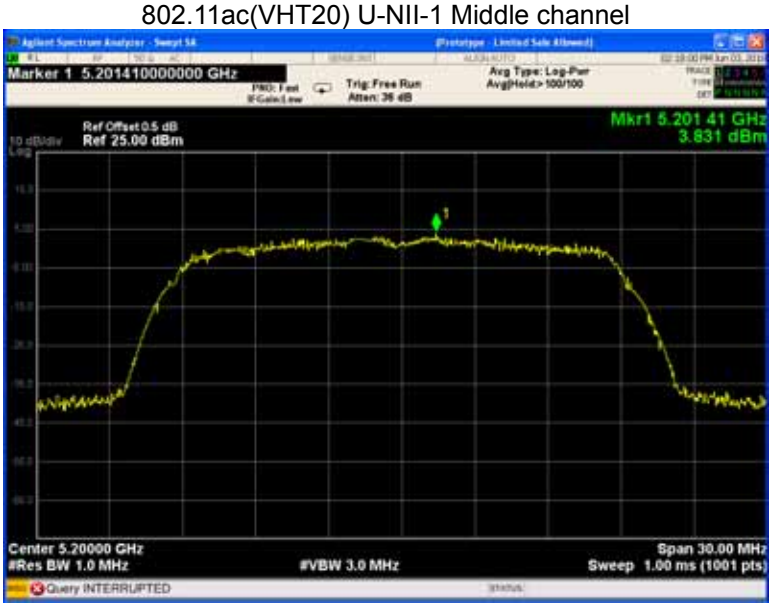
802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel

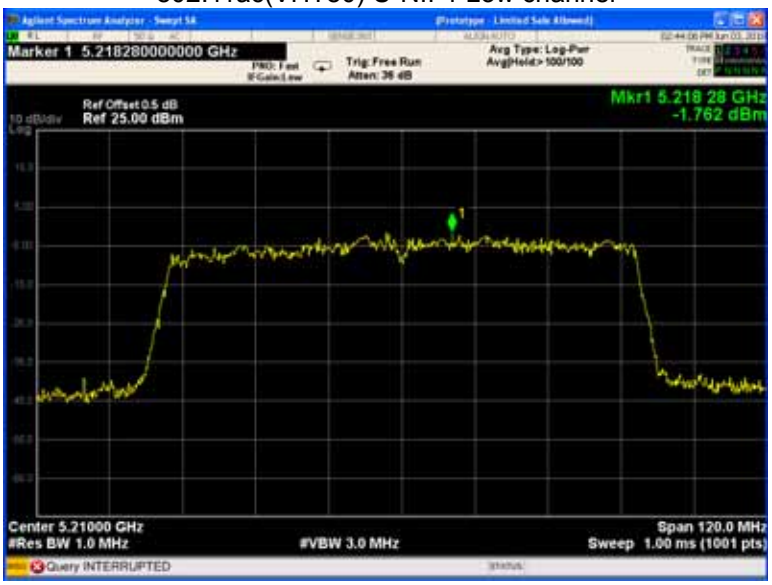


802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

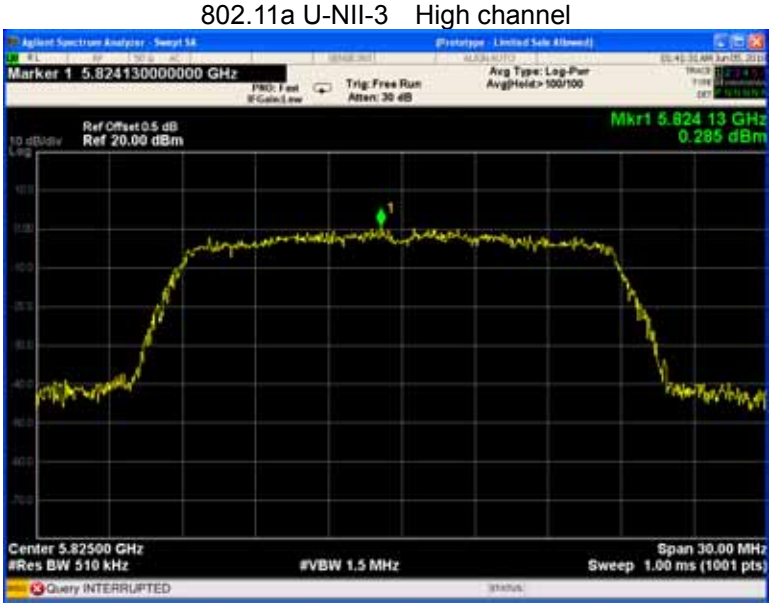
802.11ac(VHT80) U-NII-1 Low channel



802.11a U-NII-3 Low channel

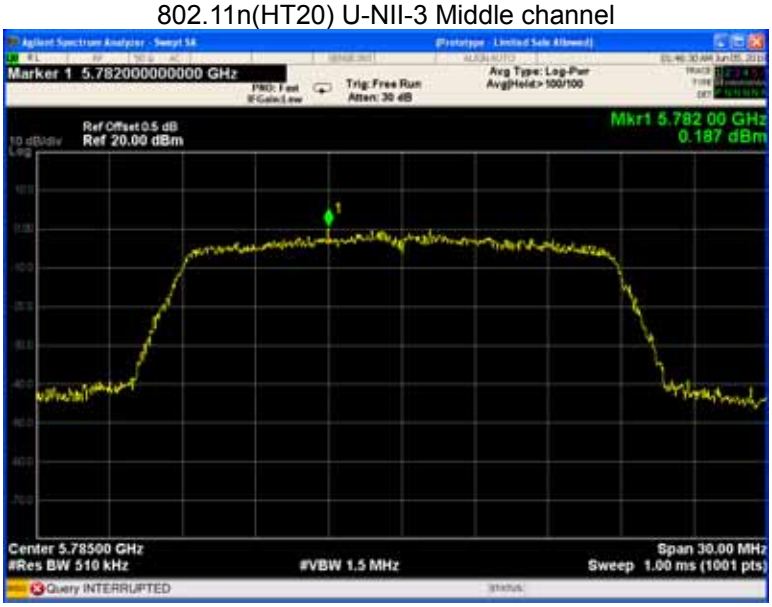
802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel



802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel



802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel

802.11ac(VHT20) U-NII-3 Middle channel

802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel

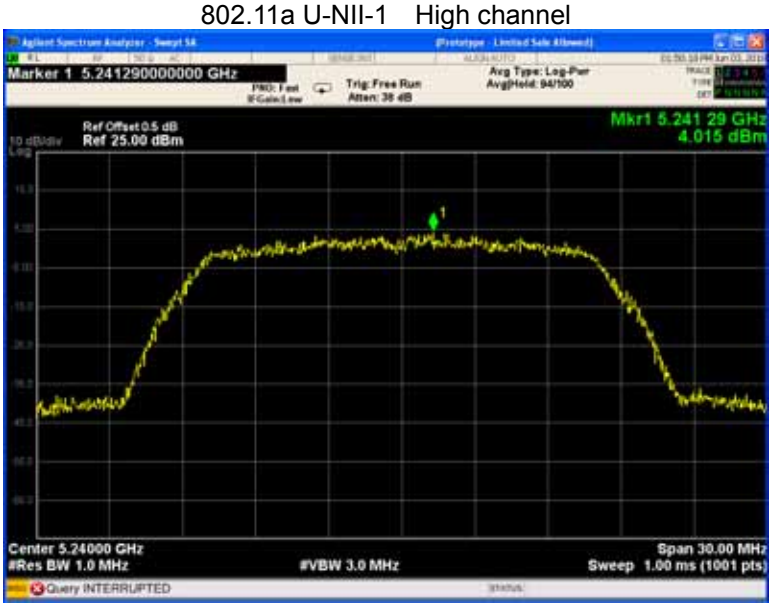
802.11ac(VHT80) U-NII-3 Low channel

ANT6

802.11a U-NII-1 Low channel

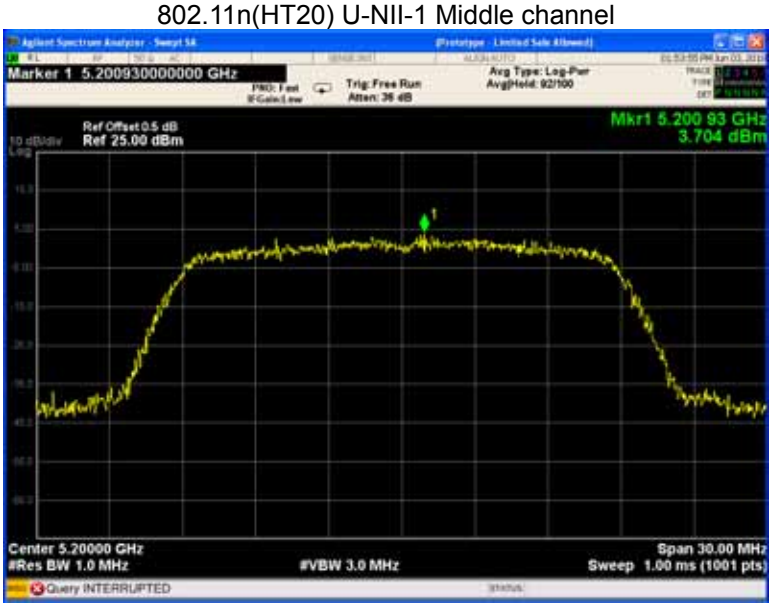
802.11a U-NII-1 Middle channel

802.11a U-NII-1 High channel



802.11n(HT20) U-NII-1 Low channel

802.11n(HT20) U-NII-1 Middle channel

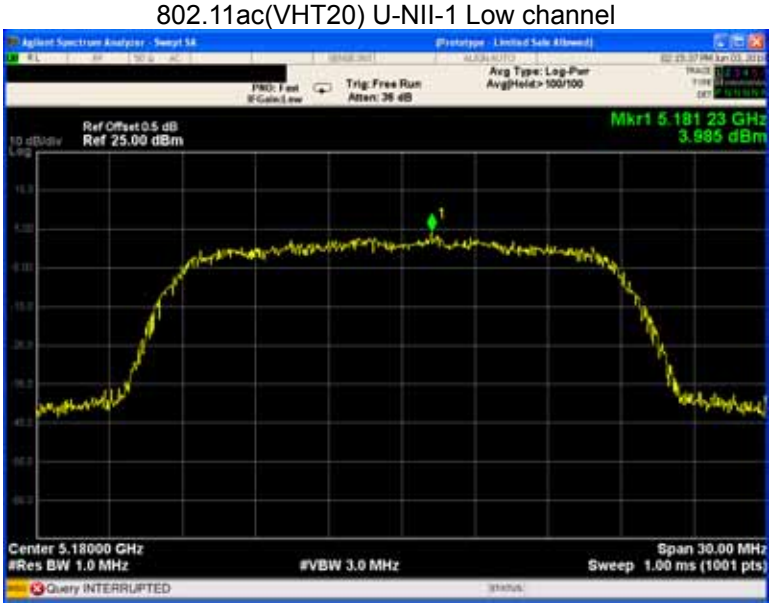


802.11n(HT20) U-NII-1 High channel

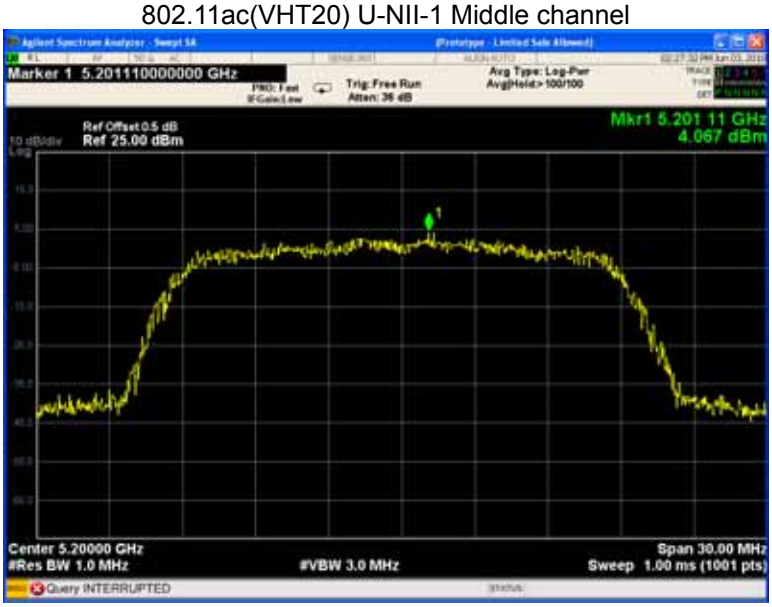
802.11n(HT40) U-NII-1 Low channel

802.11n(HT40) U-NII-1 High channel

802.11ac(VHT20) U-NII-1 Low channel



802.11ac(VHT20) U-NII-1 Middle channel

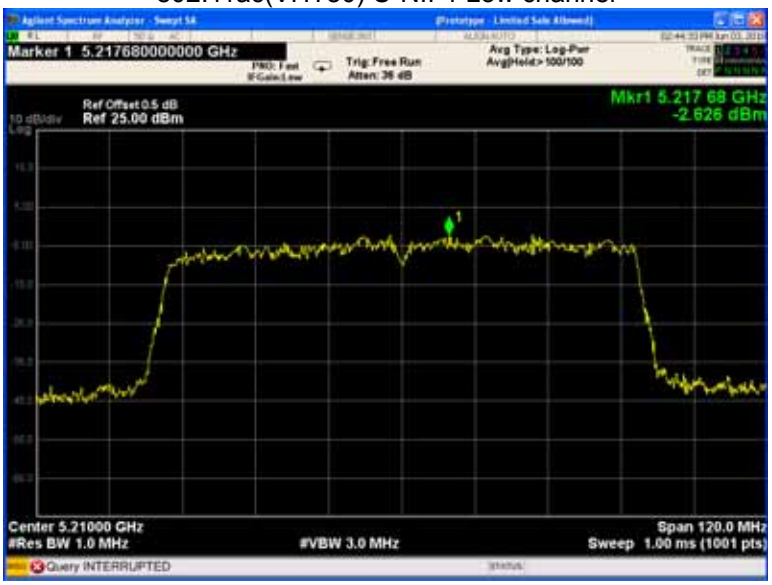


802.11ac(VHT20) U-NII-1 High channel

802.11ac(VHT40) U-NII-1 Low channel

802.11ac(VHT40) U-NII-1 High channel

802.11ac(VHT80) U-NII-1 Low channel



802.11a U-NII-3 Low channel

802.11a U-NII-3 Middle channel

802.11a U-NII-3 High channel

802.11n(HT20) U-NII-3 Low channel

802.11n(HT20) U-NII-3 Middle channel

802.11n(HT20) U-NII-3 High channel

802.11n(HT40) U-NII-3 Low channel

802.11n(HT40) U-NII-3 High channel

802.11ac(VHT20) U-NII-3 Low channel

802.11ac(VHT20) U-NII-3 Middle channel

802.11ac(VHT20) U-NII-3 High channel

802.11ac(VHT40) U-NII-3 Low channel

802.11ac(VHT40) U-NII-3 High channel

802.11ac(VHT80) U-NII-3 Low channel

END