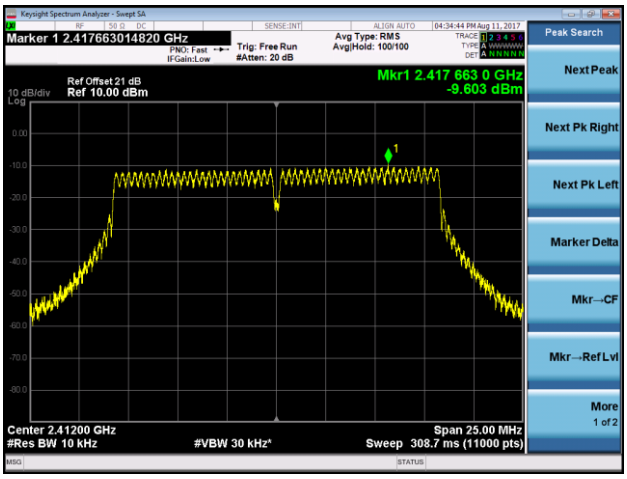
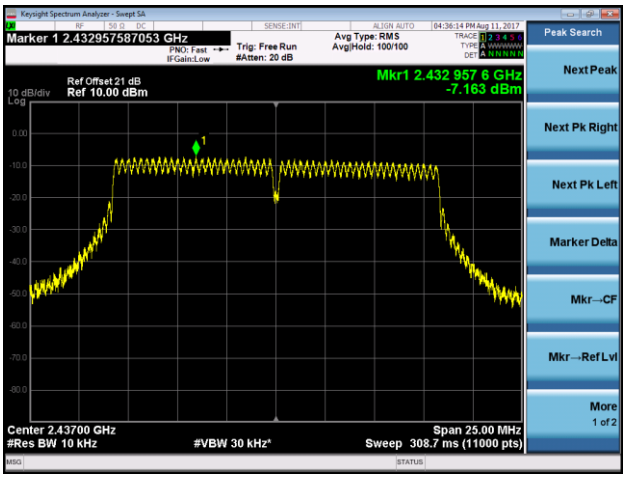
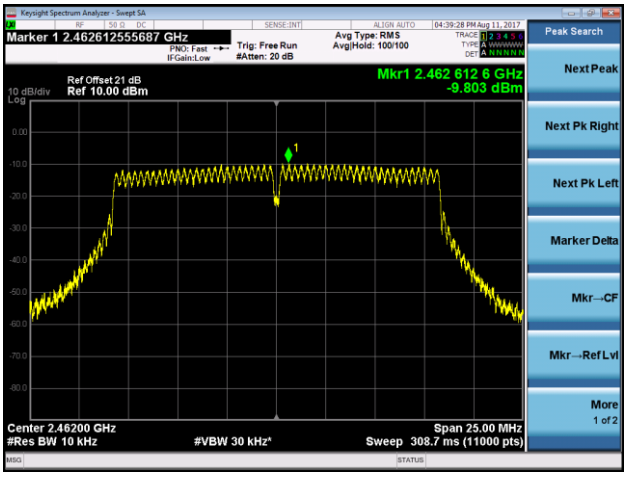
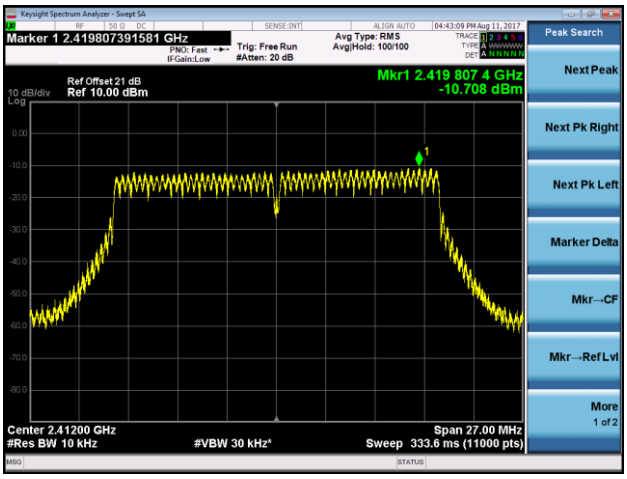
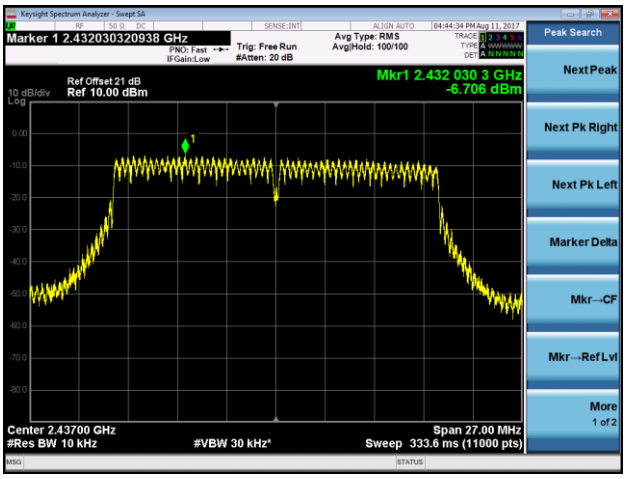
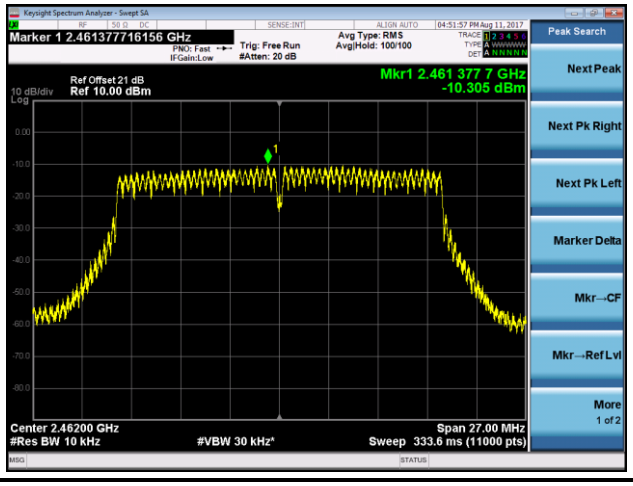
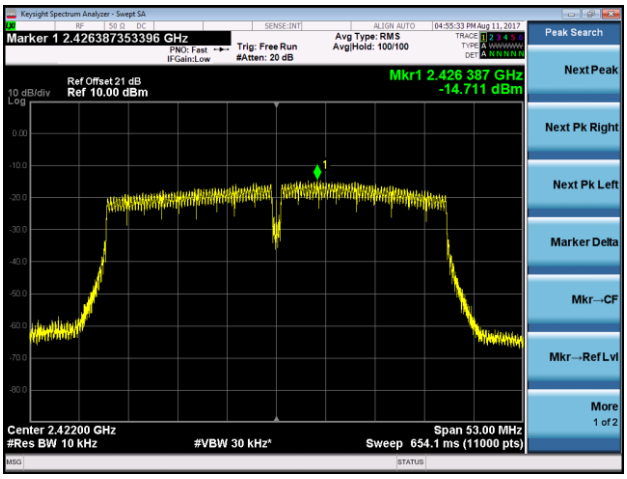
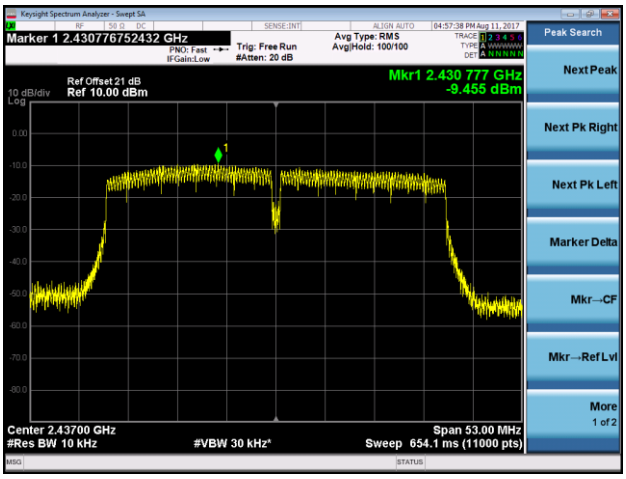
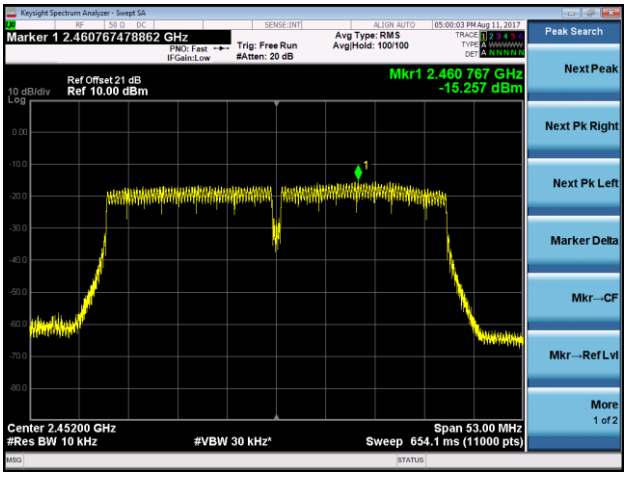
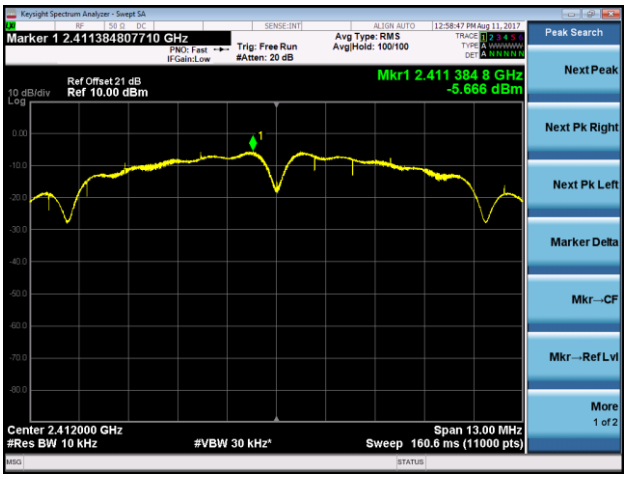
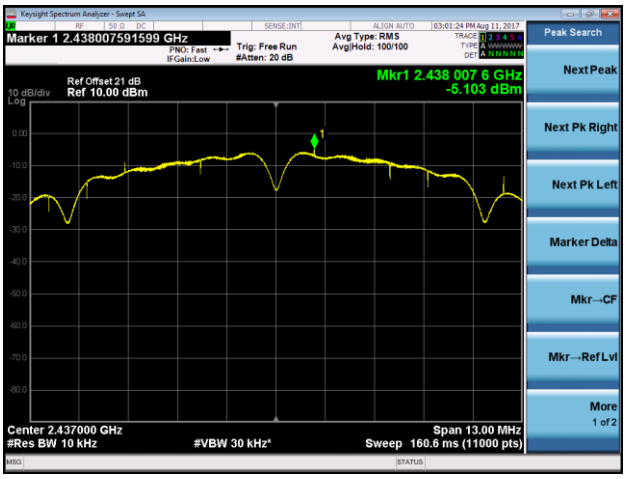
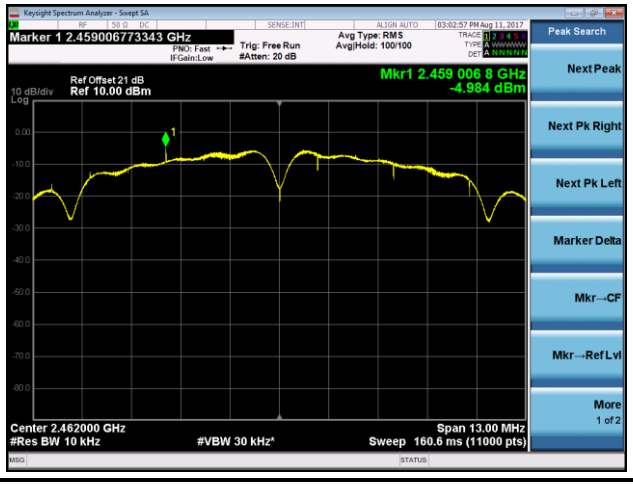
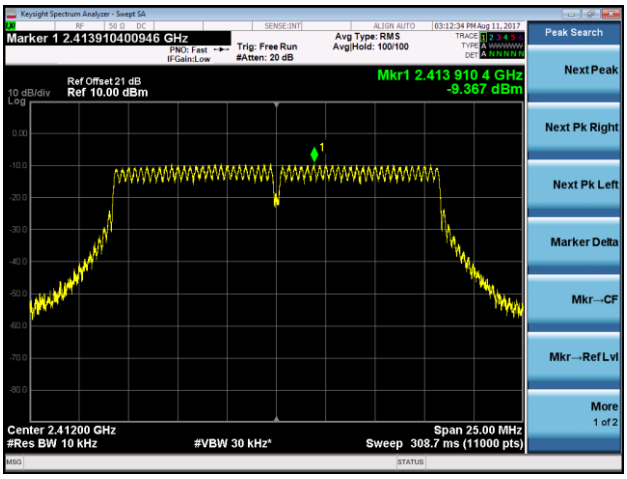
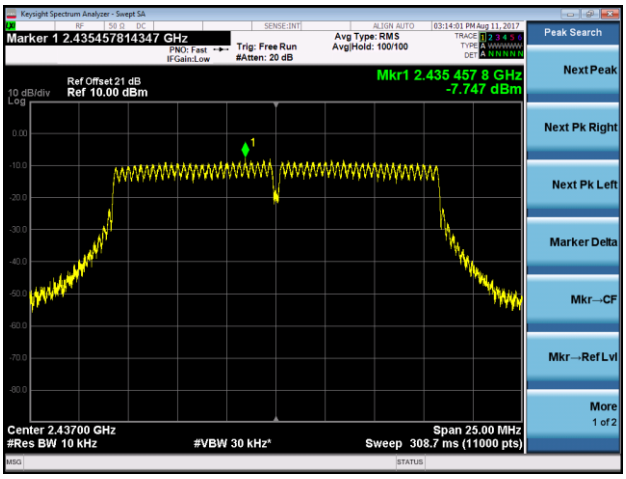
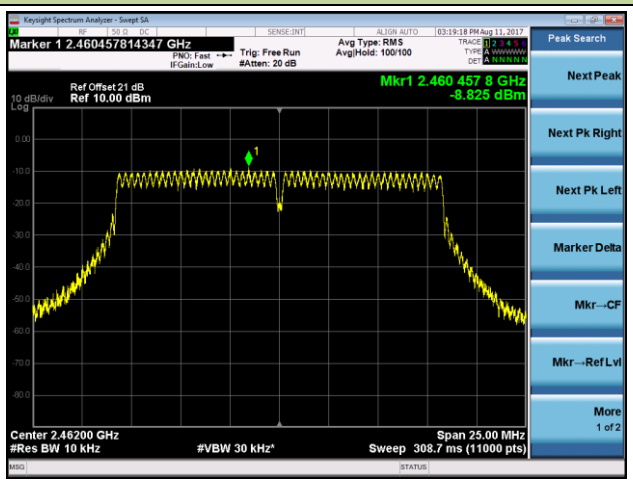
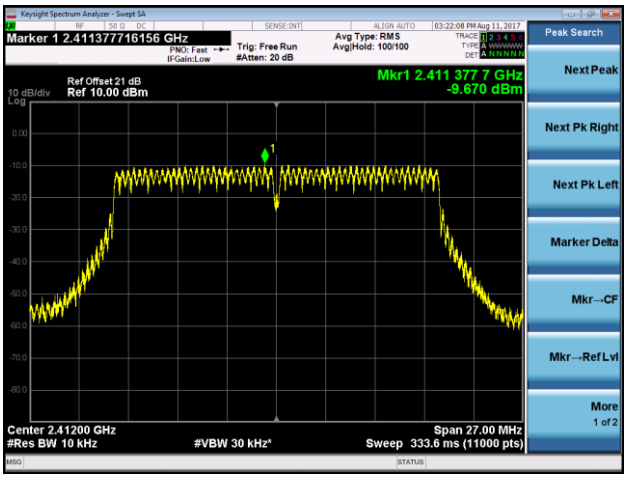
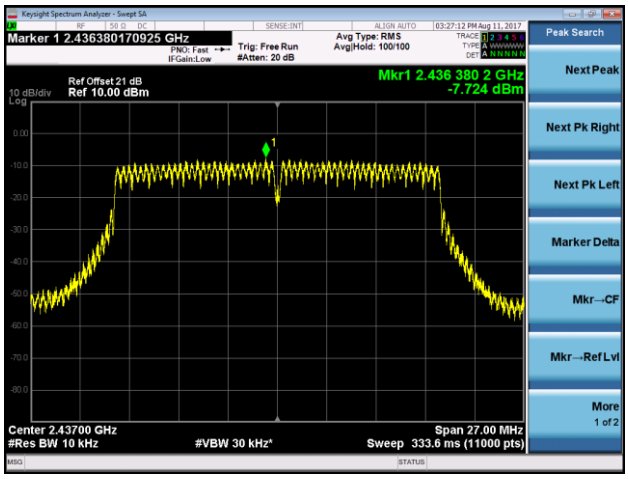
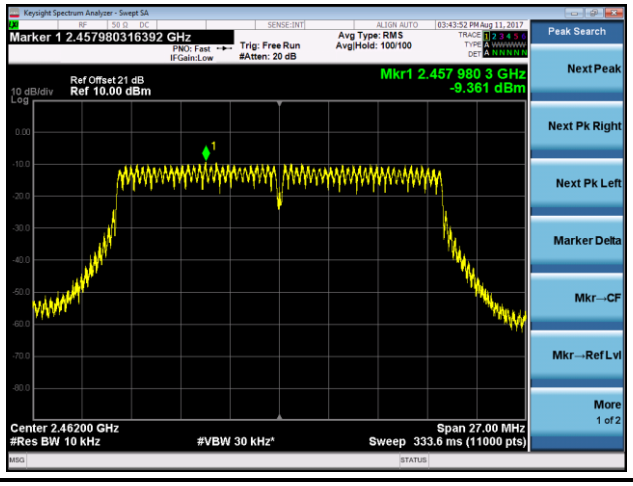
802.11g AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

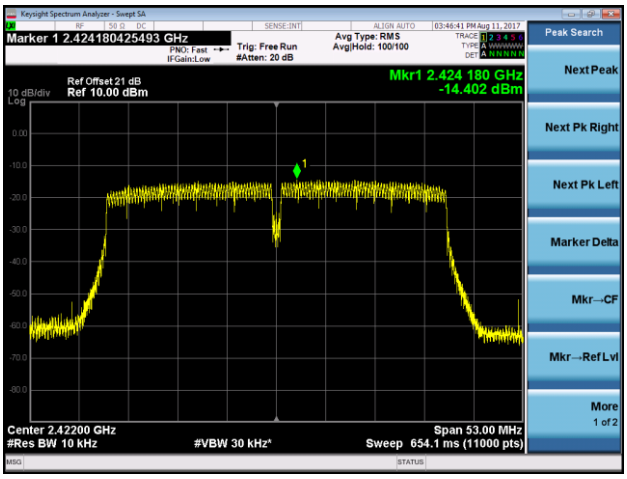
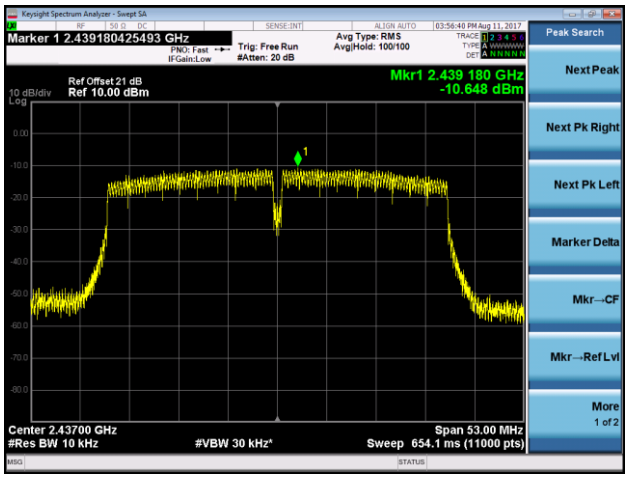
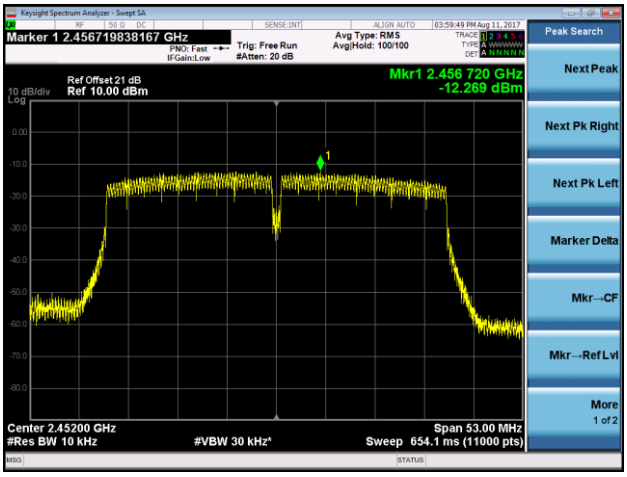
802.11n-HT20 AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

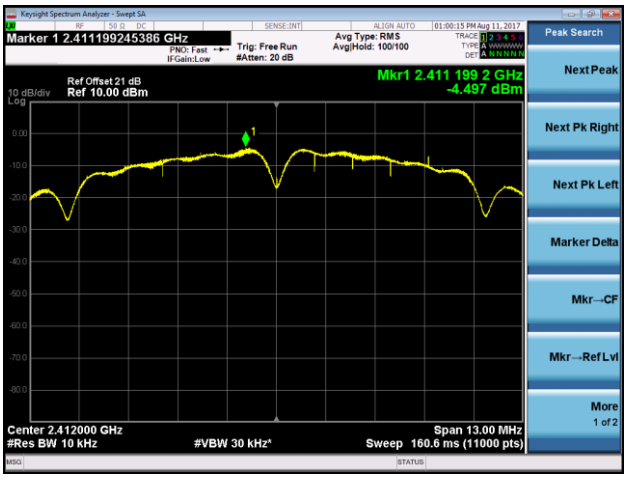
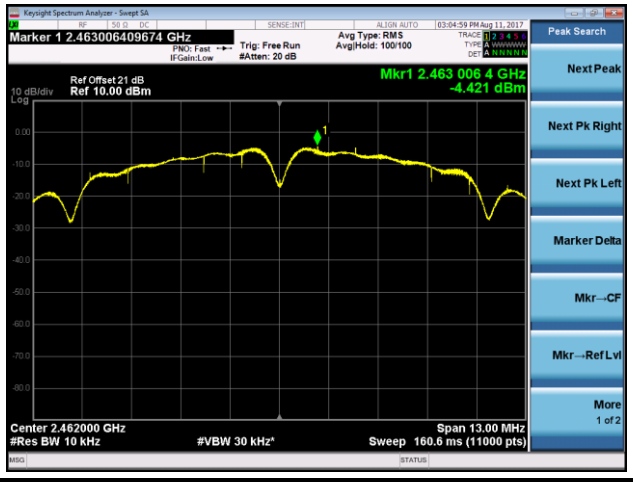
802.11n-HT40 AVGPSD - Ant 2	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

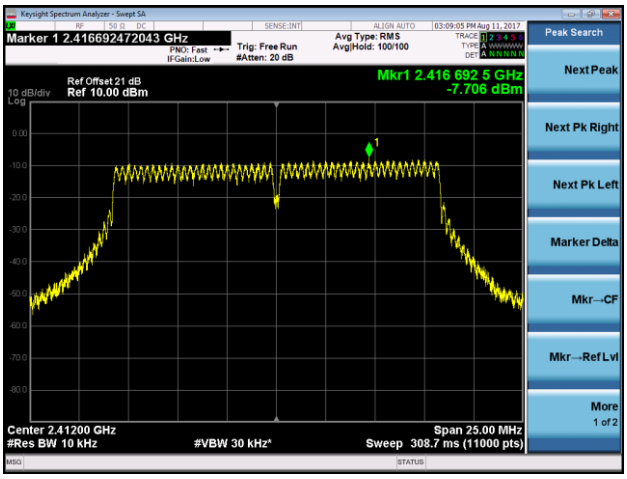
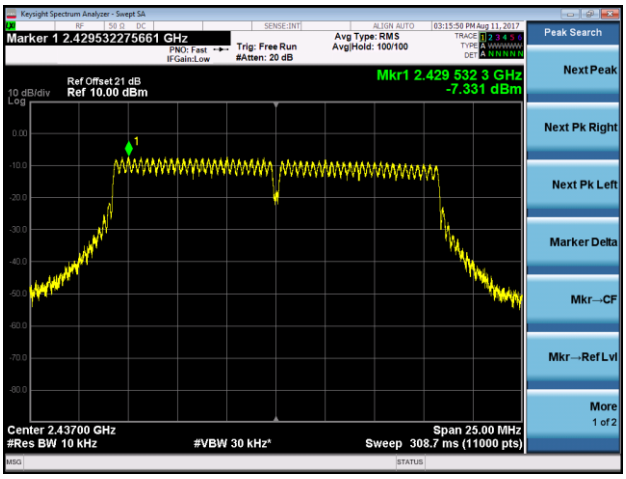
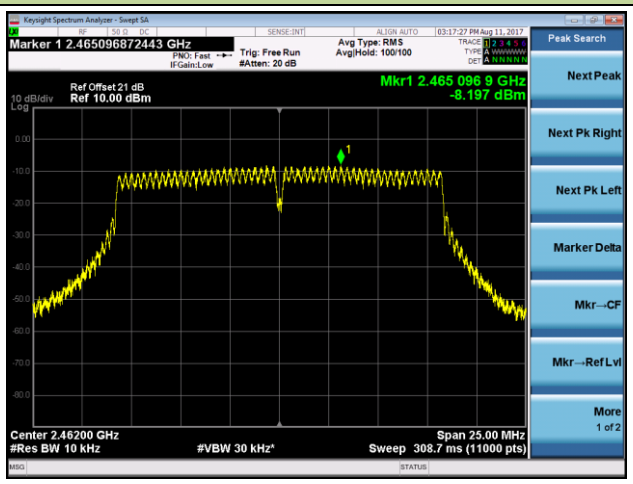
802.11b AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

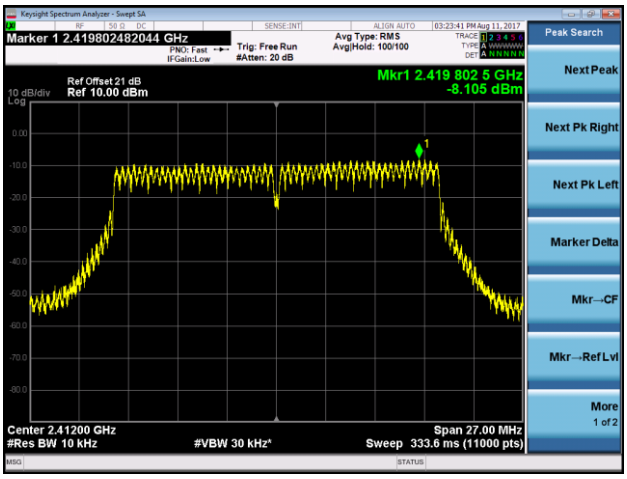
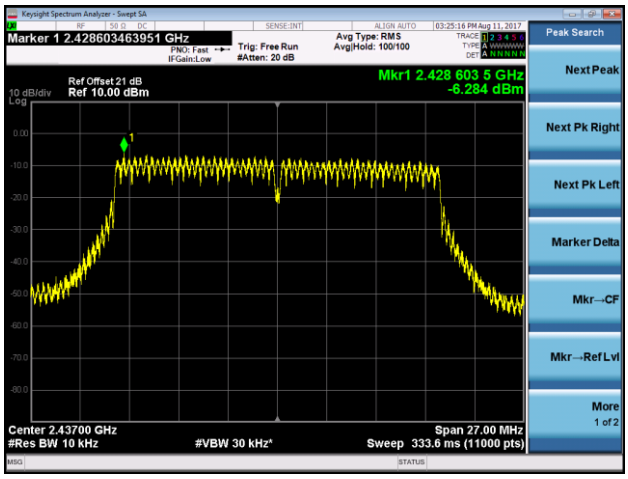
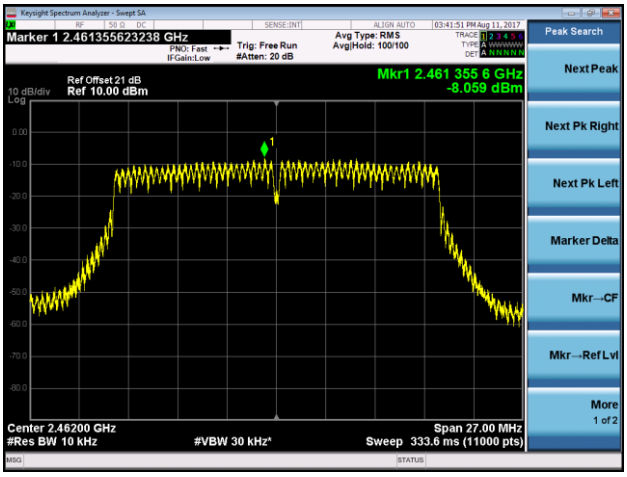
802.11g AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

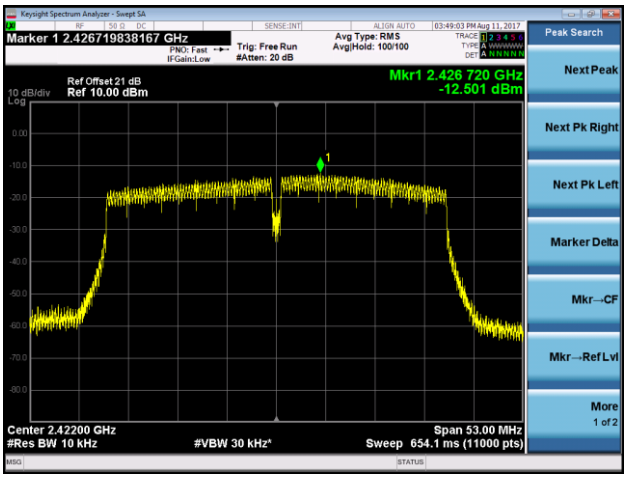
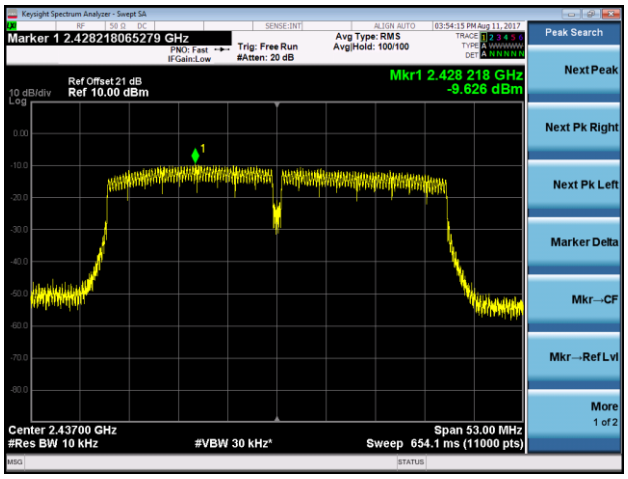
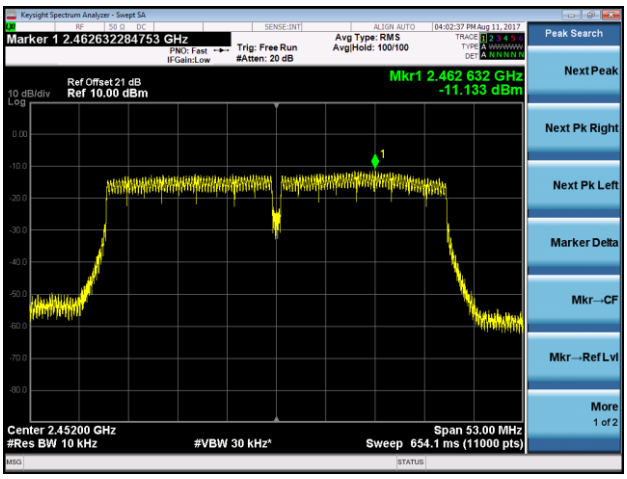
802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

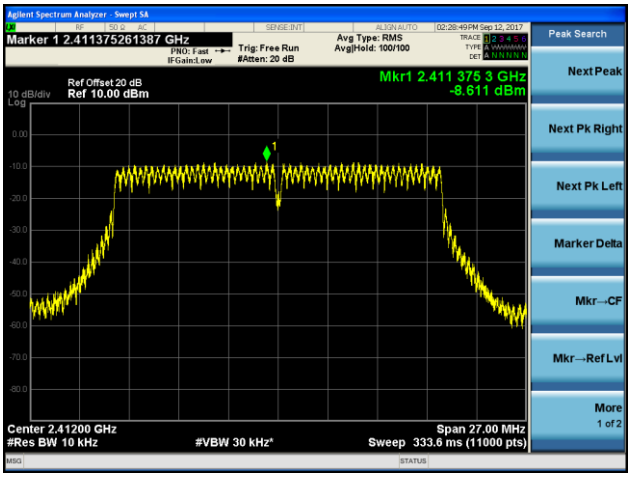
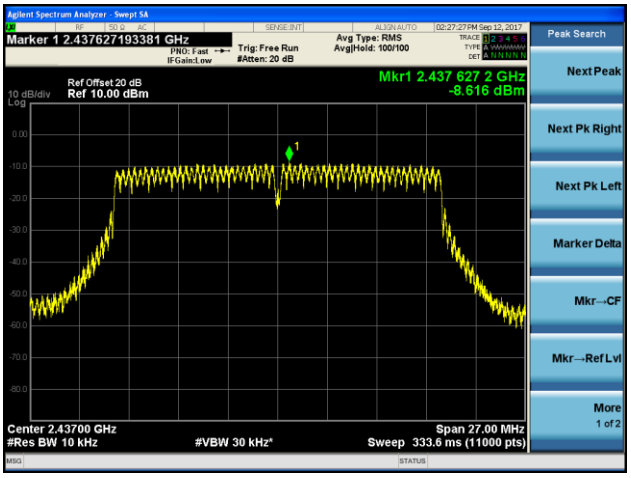
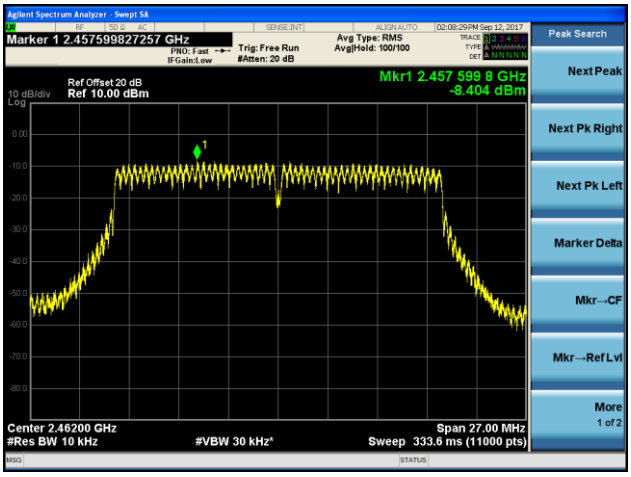
802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

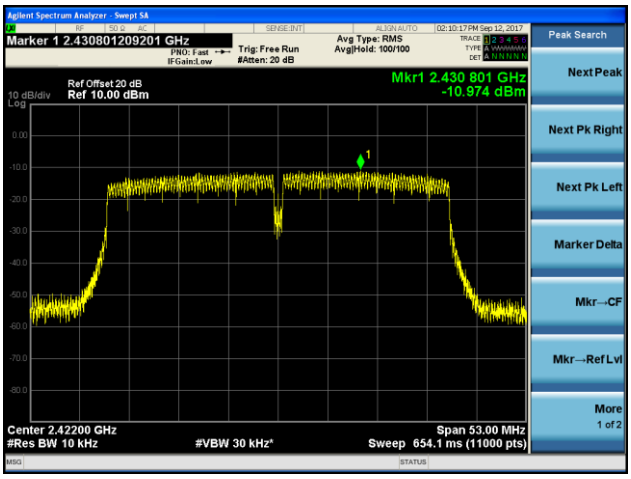
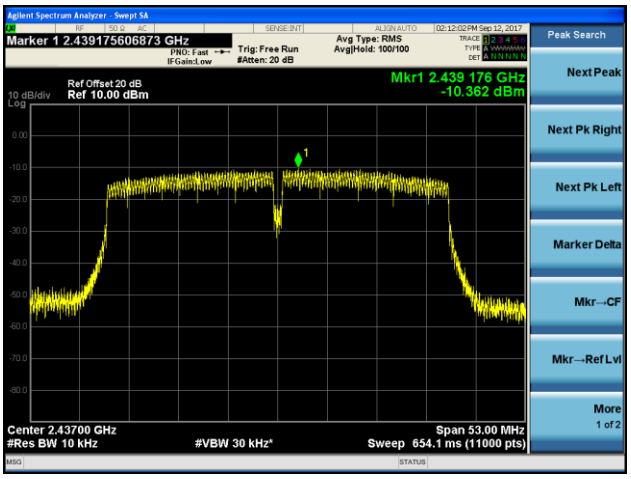
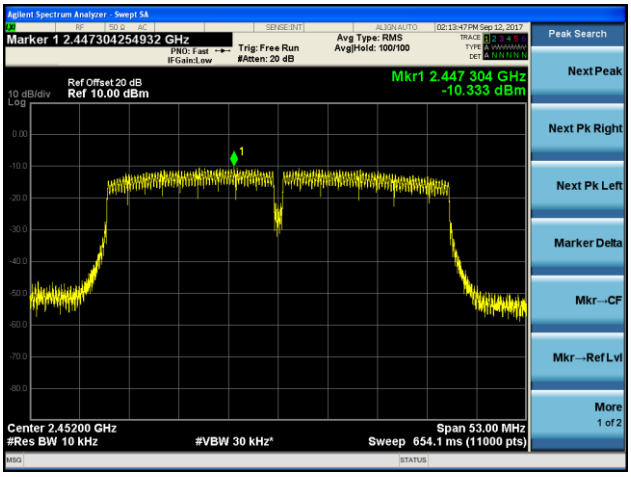
802.11b AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

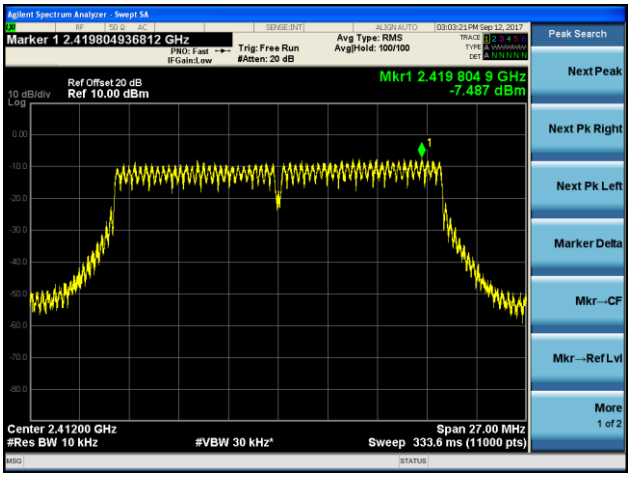
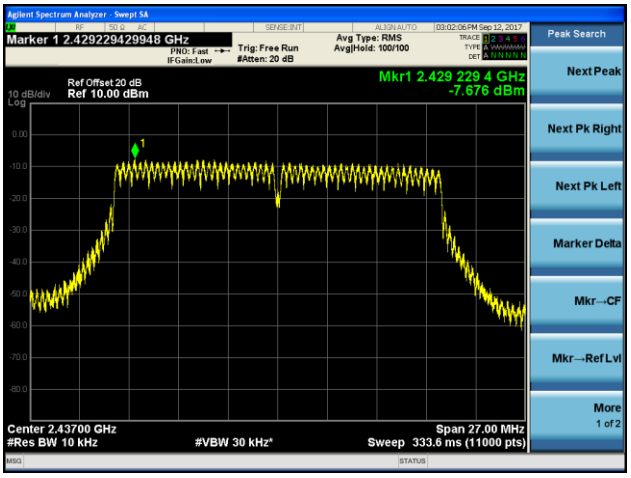
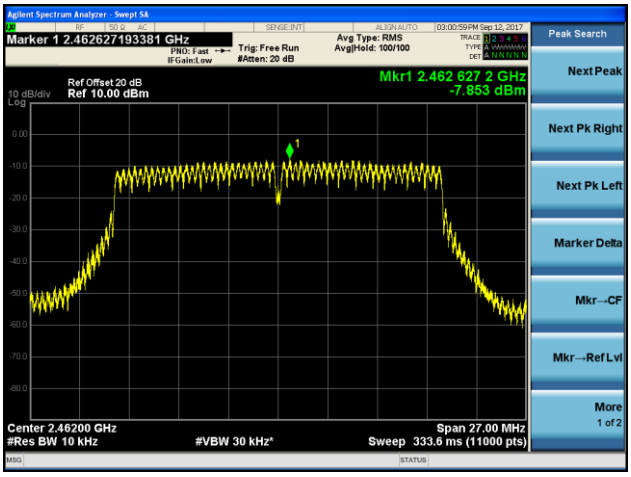
802.11g AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

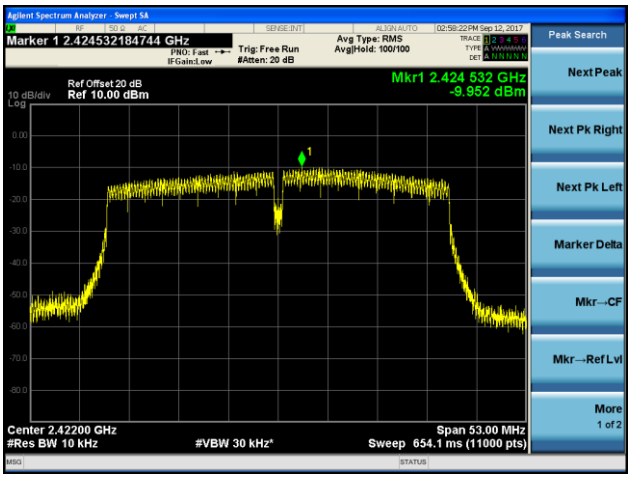
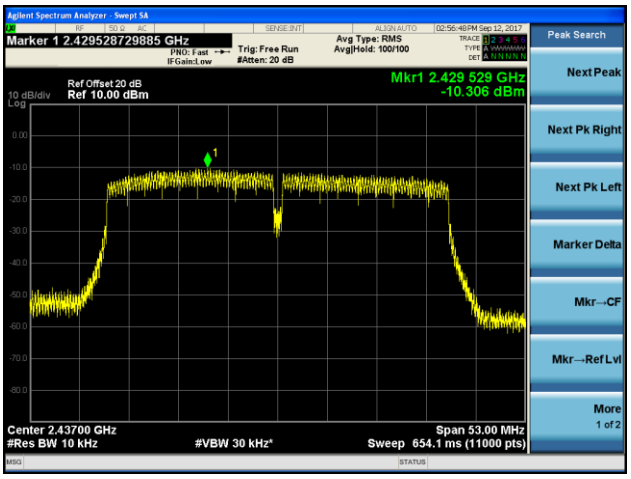
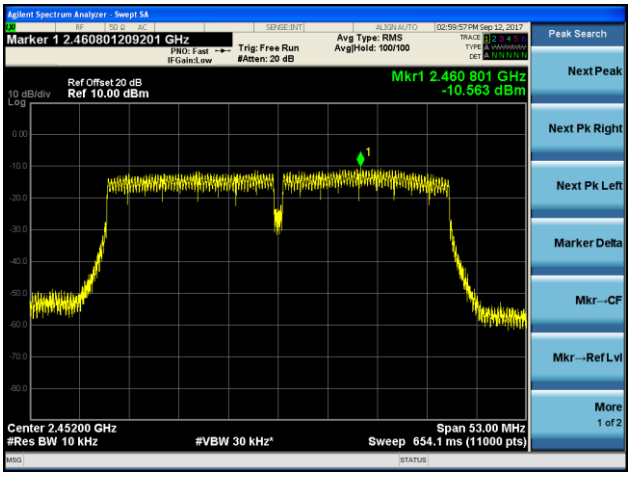
802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2 / Ant 1 + 2 (CDD Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11n-HT20 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 1 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11n-HT20 AVGPSD - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2 / Ant 1 + 2 (Beam-Forming Mode)	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

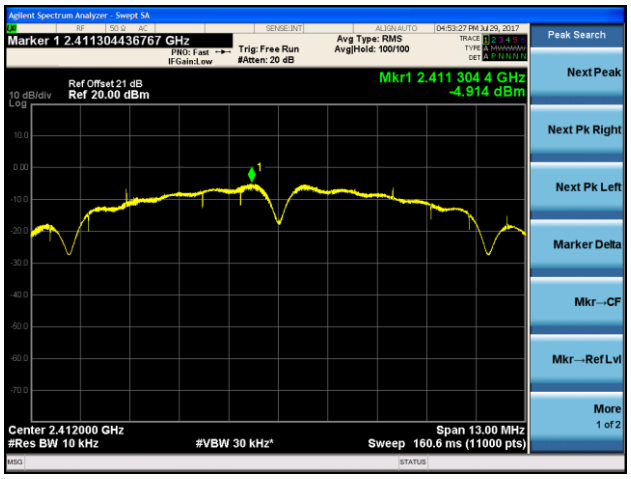
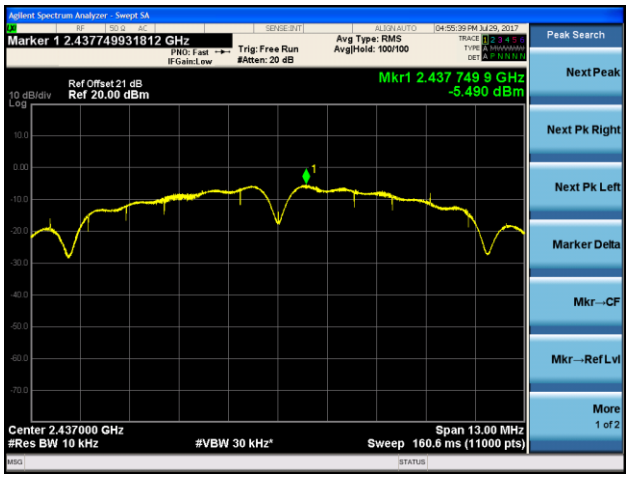
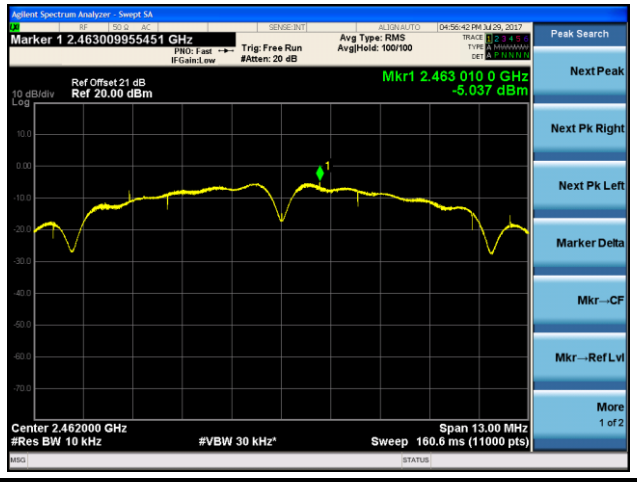
Product	AC220 Wi-Fi AP OD external antenna US	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	SR2	Test Date	2017/07/29

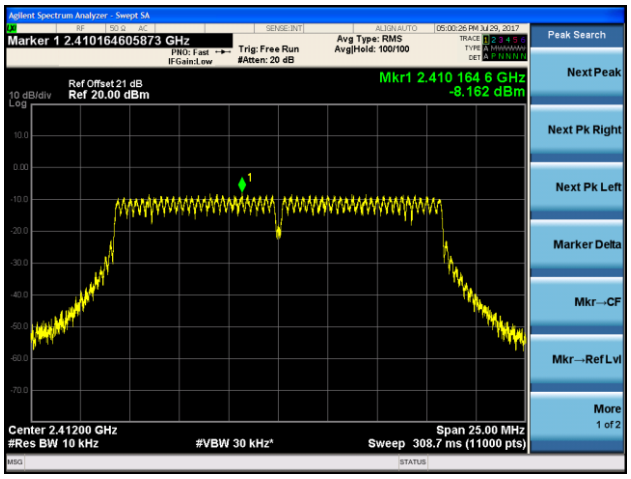
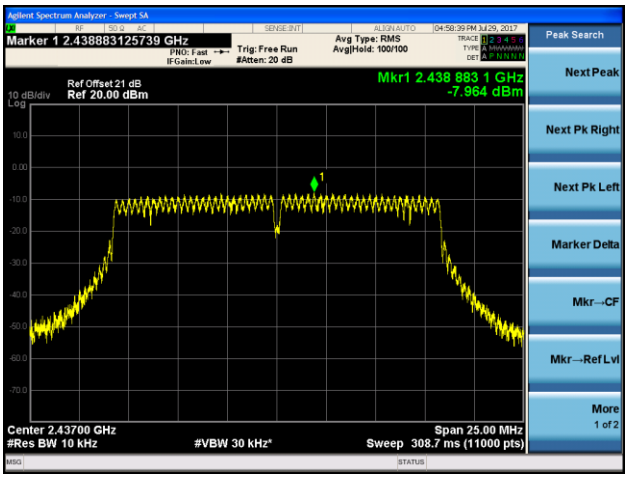
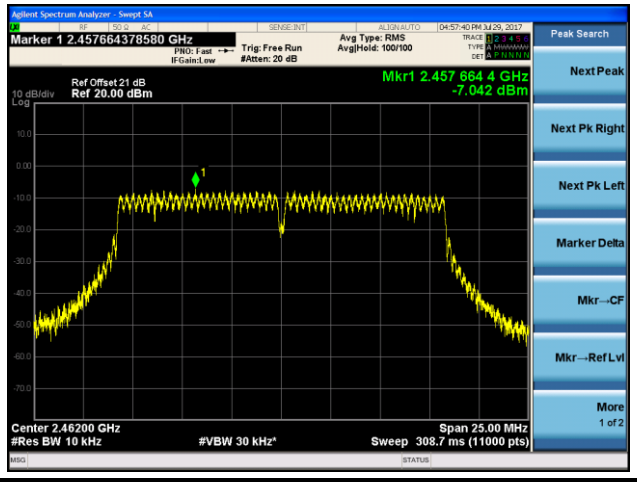
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Constant Factor	Final PSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
Ant 1									
802.11b	1Mbps	01	2412	-4.91	98.96	-5.23	-10.09	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-5.49	98.96	-5.23	-10.67	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-5.04	98.96	-5.23	-10.22	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-8.16	96.04	-5.23	-13.21	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-7.96	96.04	-5.23	-13.01	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-7.04	96.04	-5.23	-12.09	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-8.11	98.23	-5.23	-13.26	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-7.89	98.23	-5.23	-13.04	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-7.69	98.23	-5.23	-12.84	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-13.06	96.41	-5.23	-18.13	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-10.30	96.41	-5.23	-15.37	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-11.18	96.41	-5.23	-16.25	≤ 8.00	Pass
Ant 2									
802.11b	1Mbps	01	2412	-4.46	98.96	-5.23	-9.65	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-3.77	98.96	-5.23	-8.95	≤ 8.00	Pass
802.11b	1Mbps	11	2462	-4.15	98.96	-5.23	-9.33	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-7.00	96.04	-5.23	-12.05	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-6.90	96.04	-5.23	-11.95	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-7.43	96.04	-5.23	-12.48	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-6.96	98.23	-5.23	-12.11	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-6.53	98.23	-5.23	-11.68	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-7.11	98.23	-5.23	-12.26	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-10.96	96.41	-5.23	-16.03	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-9.37	96.41	-5.23	-14.44	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-11.11	96.41	-5.23	-16.18	≤ 8.00	Pass

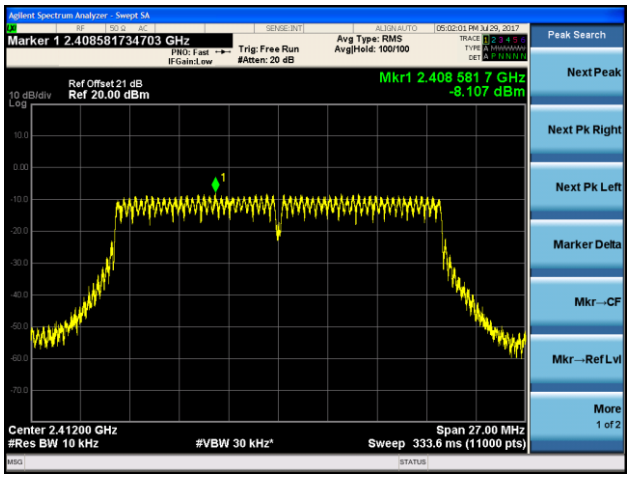
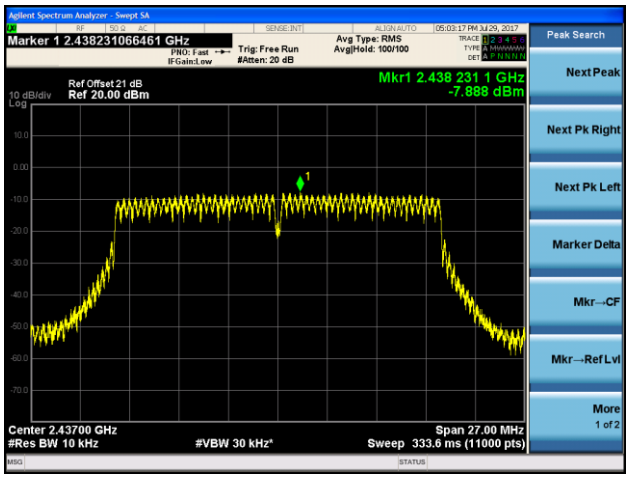
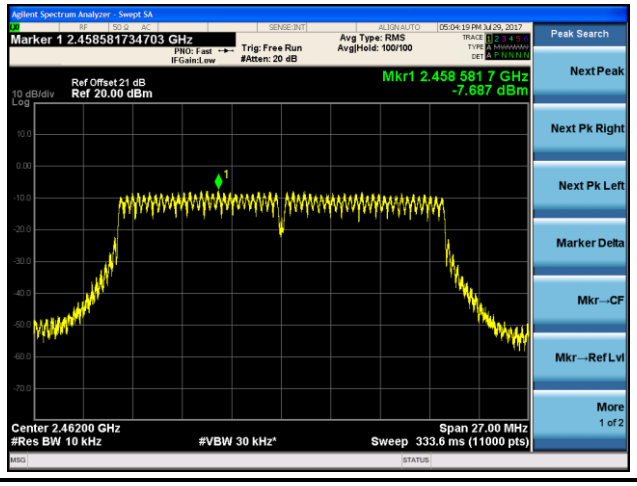
Note: The Final PSD = AVGPSD + 10*log(1/duty cycle) + Constant Factor.

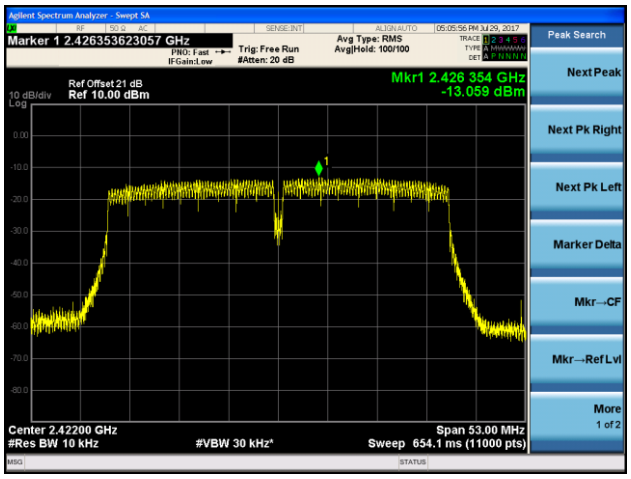
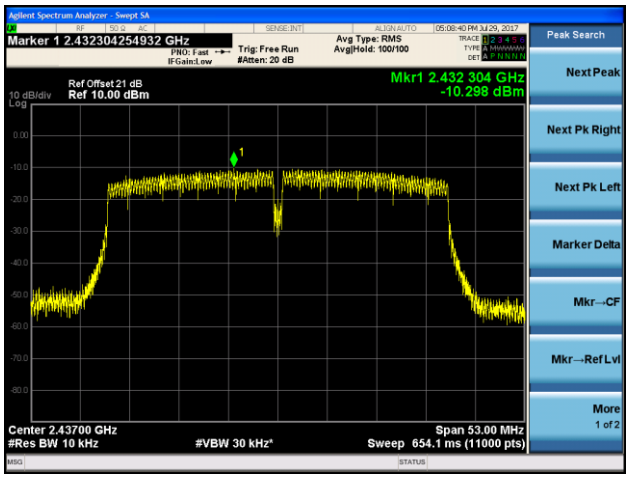
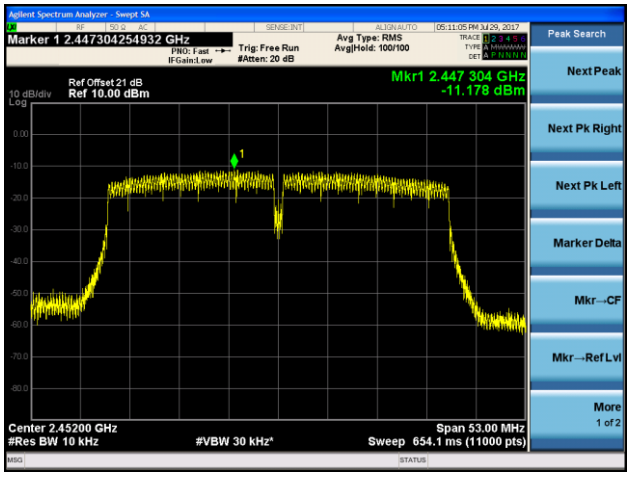
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 1 AVGPSD (dBm / 10kHz)	Ant 2 AVGPSD (dBm / 10kHz)	Duty Cycle (%)	Constant Factor	Total AVGPSD (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
Ant 1 + 2 (CDD Mode)										
11b	1Mbps	1	2412	-4.70	-3.24	98.96	-5.23	-6.08	≤ 4.99	Pass
11b	1Mbps	6	2437	-3.70	-3.08	98.96	-5.23	-5.55	≤ 4.99	Pass
11b	1Mbps	11	2462	-4.43	-2.99	98.96	-5.23	-5.82	≤ 4.99	Pass
11g	6Mbps	1	2412	-9.28	-8.24	96.04	-5.23	-10.77	≤ 4.99	Pass
11g	6Mbps	6	2437	-7.64	-6.62	96.04	-5.23	-9.14	≤ 4.99	Pass
11g	6Mbps	11	2462	-9.22	-8.49	96.04	-5.23	-10.89	≤ 4.99	Pass
11n-HT20	MCS0	1	2412	-10.15	-9.11	98.23	-5.23	-11.74	≤ 4.99	Pass
11n-HT20	MCS0	6	2437	-7.78	-6.69	98.23	-5.23	-9.34	≤ 4.99	Pass
11n-HT20	MCS0	11	2462	-9.29	-8.32	98.23	-5.23	-10.92	≤ 4.99	Pass
11n-HT40	MCS0	3	2422	-15.63	-13.58	96.41	-5.23	-16.55	≤ 4.99	Pass
11n-HT40	MCS0	6	2437	-9.98	-9.31	96.41	-5.23	-11.69	≤ 4.99	Pass
11n-HT40	MCS0	9	2452	-13.01	-11.57	96.41	-5.23	-14.29	≤ 4.99	Pass
Ant 1 + 2 (Beam-Forming Mode)										
11n-HT20	MCS0	1	2412	-11.28	-10.01	98.23	-5.23	-12.74	≤ 4.99	Pass
11n-HT20	MCS0	6	2437	-7.83	-6.67	98.23	-5.23	-9.35	≤ 4.99	Pass
11n-HT20	MCS0	11	2462	-9.55	-9.26	98.23	-5.23	-11.54	≤ 4.99	Pass
11n-HT40	MCS0	3	2422	-14.56	-13.08	96.41	-5.23	-15.82	≤ 4.99	Pass
11n-HT40	MCS0	6	2437	-10.25	-9.35	96.41	-5.23	-11.84	≤ 4.99	Pass
11n-HT40	MCS0	9	2452	-12.62	-12.02	96.41	-5.23	-14.37	≤ 4.99	Pass

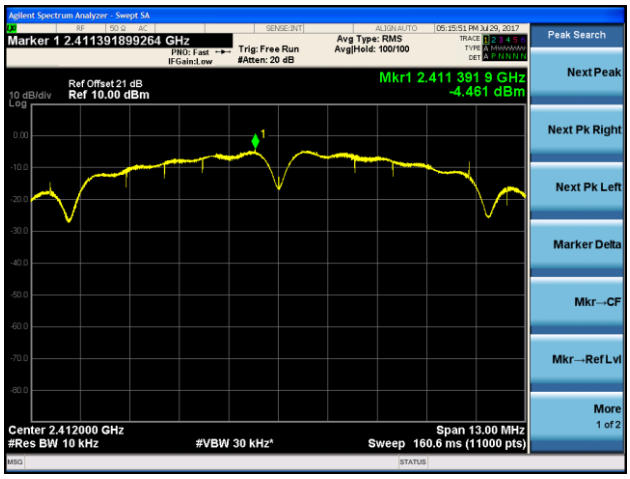
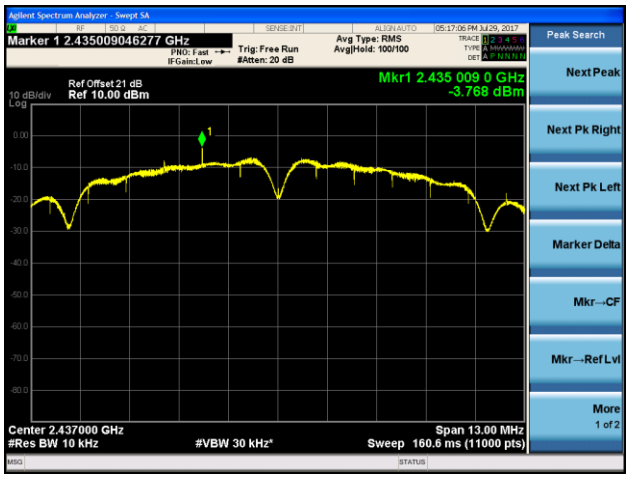
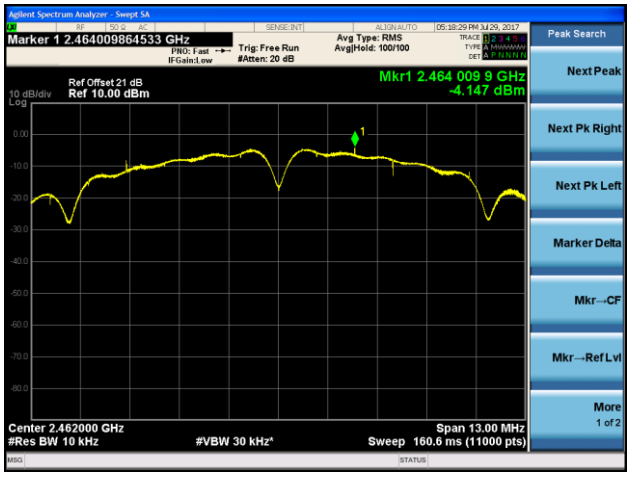
Note: The total AVGPSD = $10*\log\{10^{(\text{Ant 1 AVGPSD}/10)}+10^{(\text{Ant 2 AVGPSD}/10)}\}$ + 10*log(1/duty cycle) + Constant Factor.

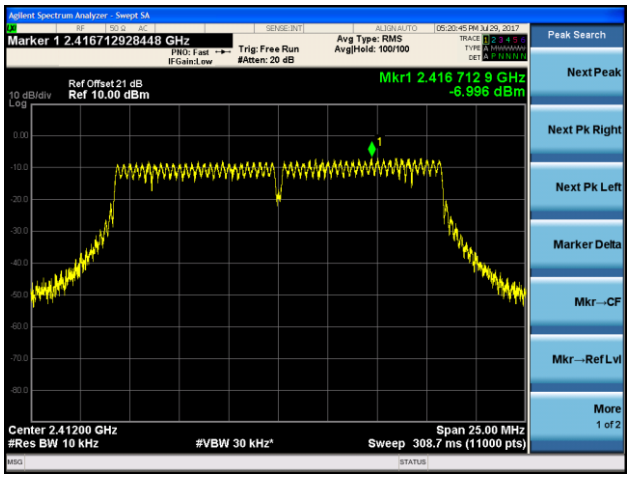
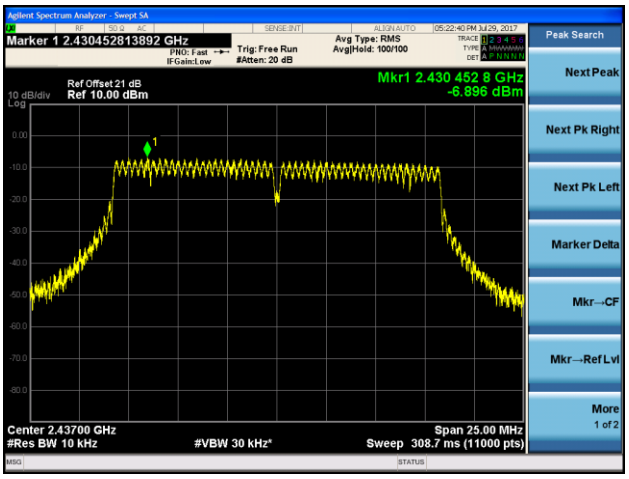
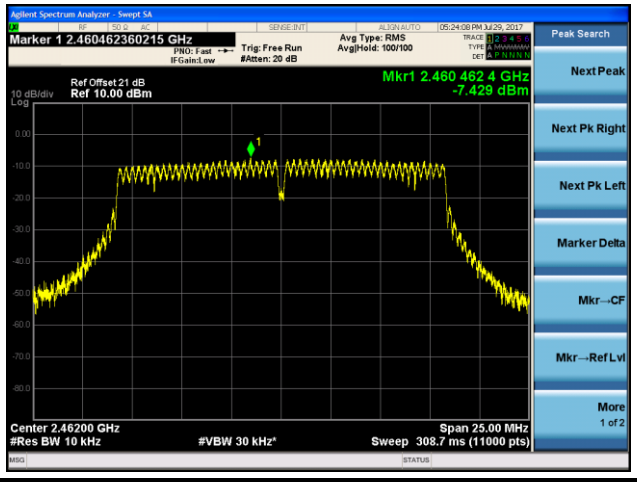
802.11b AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

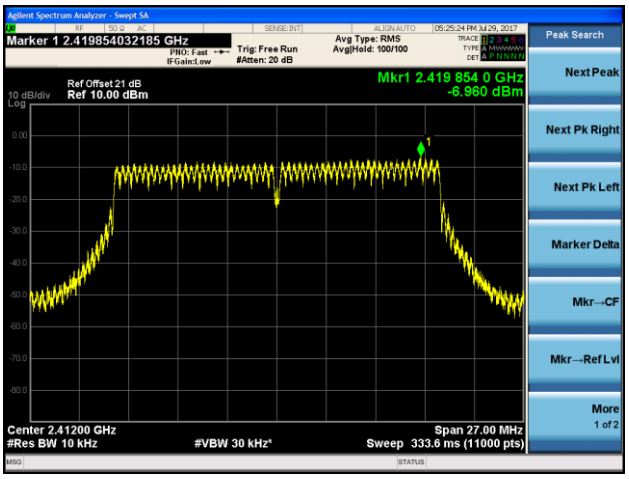
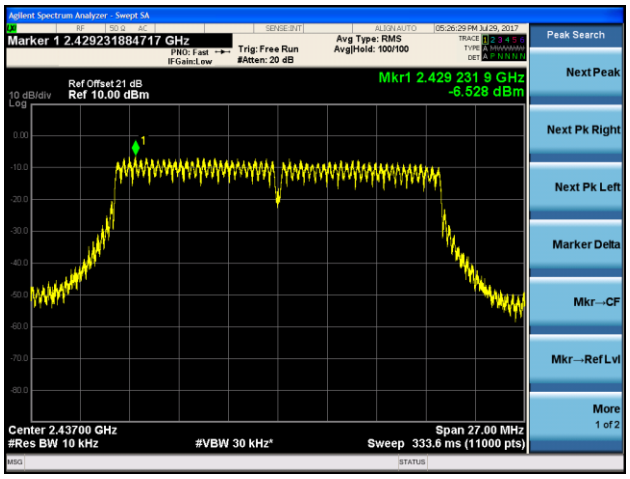
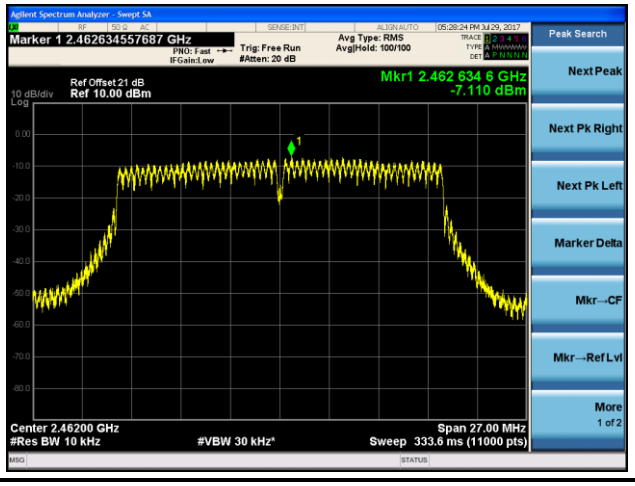
802.11g AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

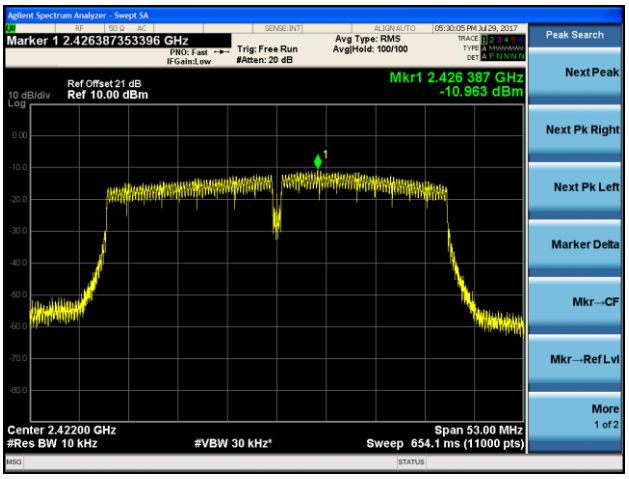
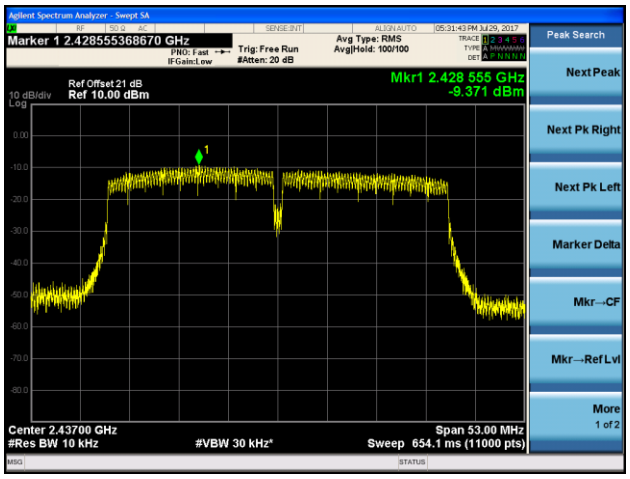
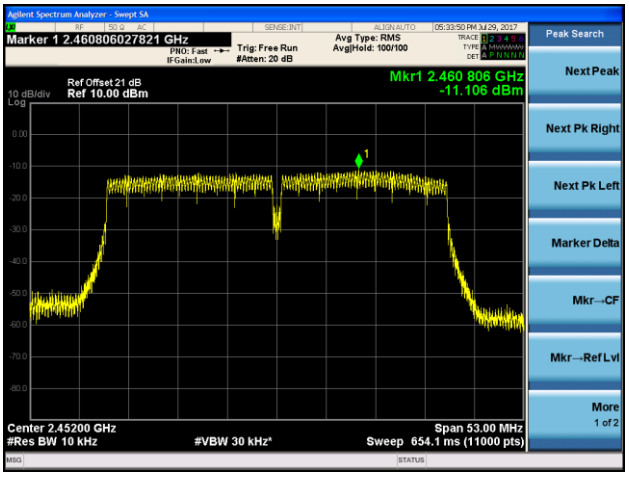
802.11n-HT20 AVGPSD - Ant 1	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

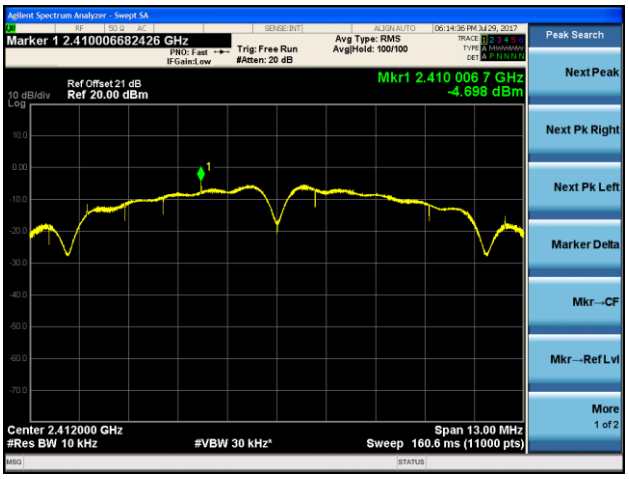
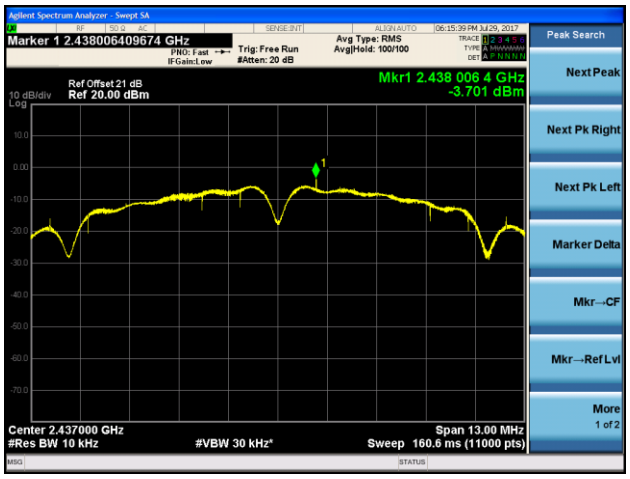
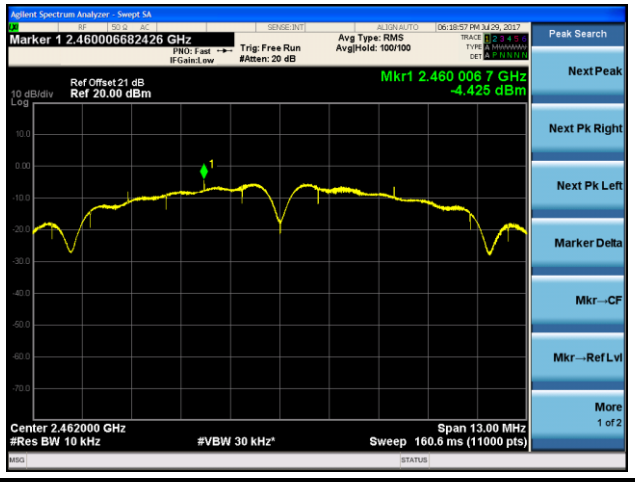
802.11n-HT40 AVGPSD - Ant 1	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

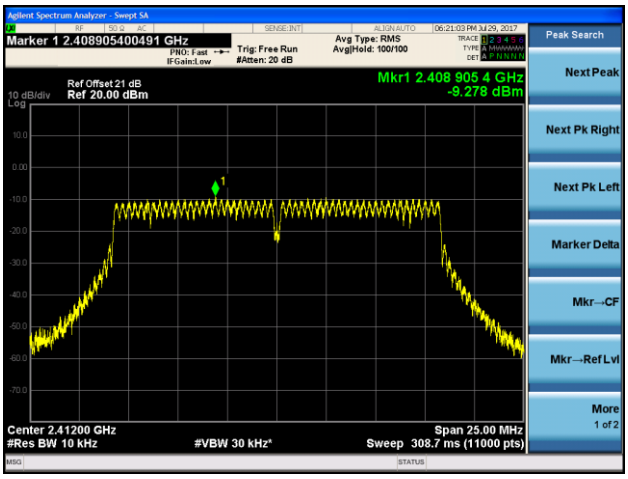
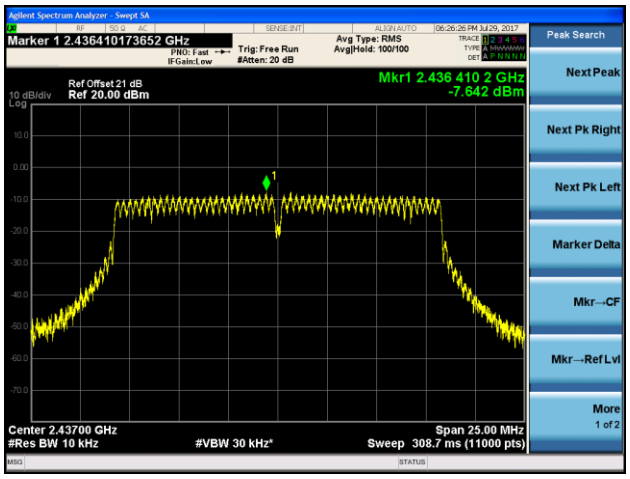
802.11b AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT20 AVGPSD - Ant 2	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11n-HT40 AVGPSD - Ant 2	
Channel 03 (2422MHz)	**Channel 06 (2437MHz)**
	
Channel 09 (2452MHz)	
	

802.11b AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)	
	

802.11g AVGPSD - Ant 1 / Ant 1 + 2 (CDD Mode)	
Channel 01 (2412MHz)	**Channel 06 (2437MHz)**
	
Channel 11 (2462MHz)