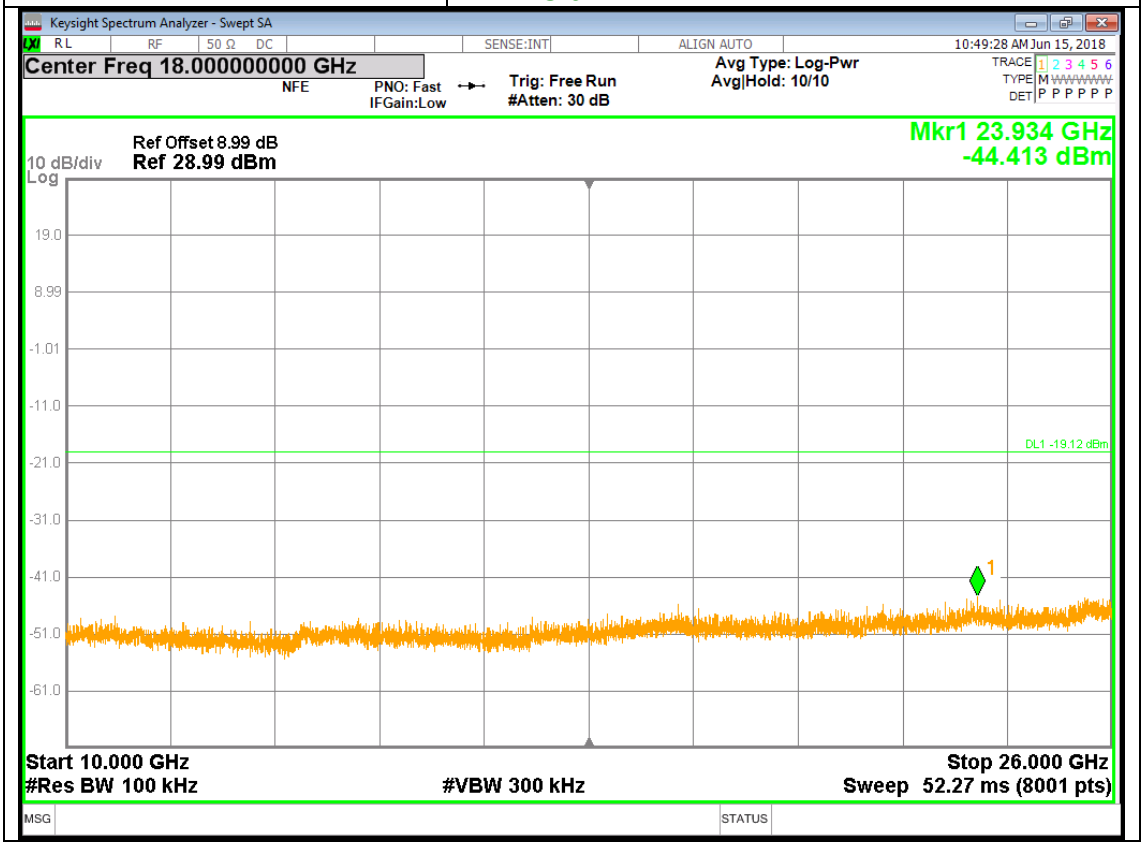
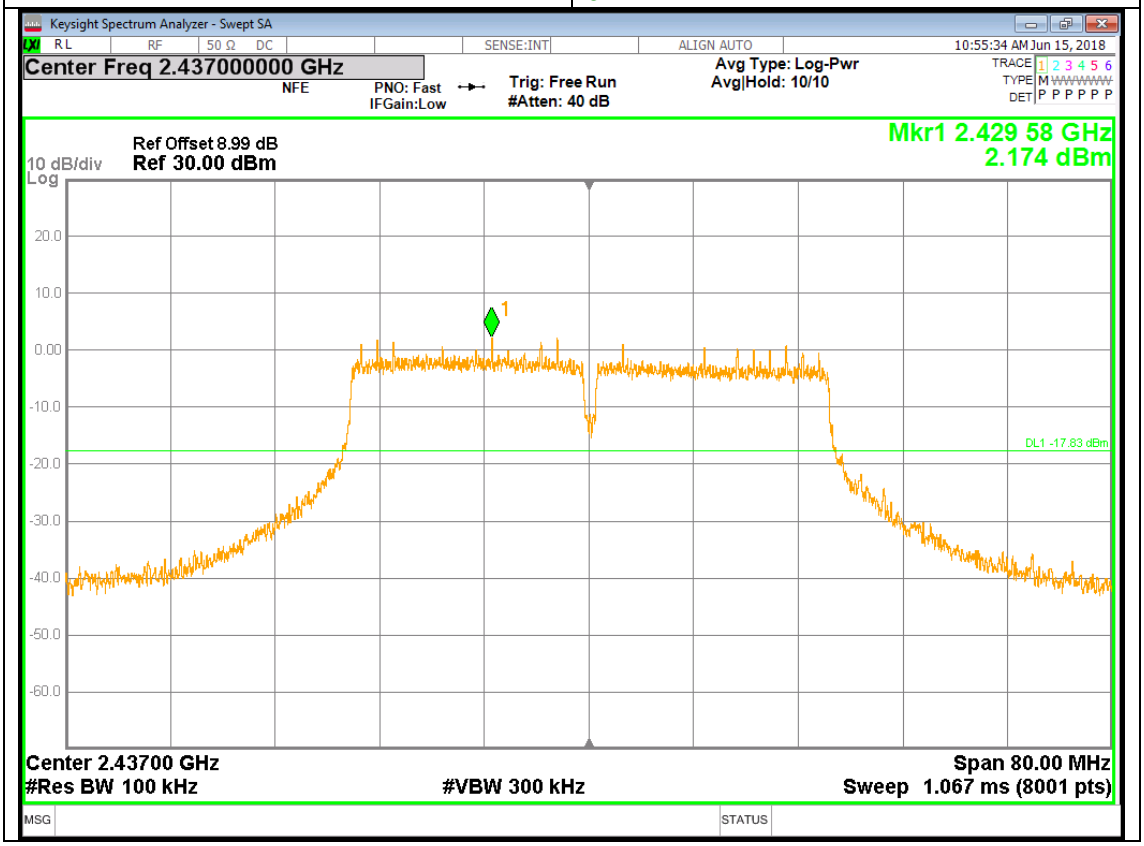
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;23934.000MHz@-44.413 dBm**

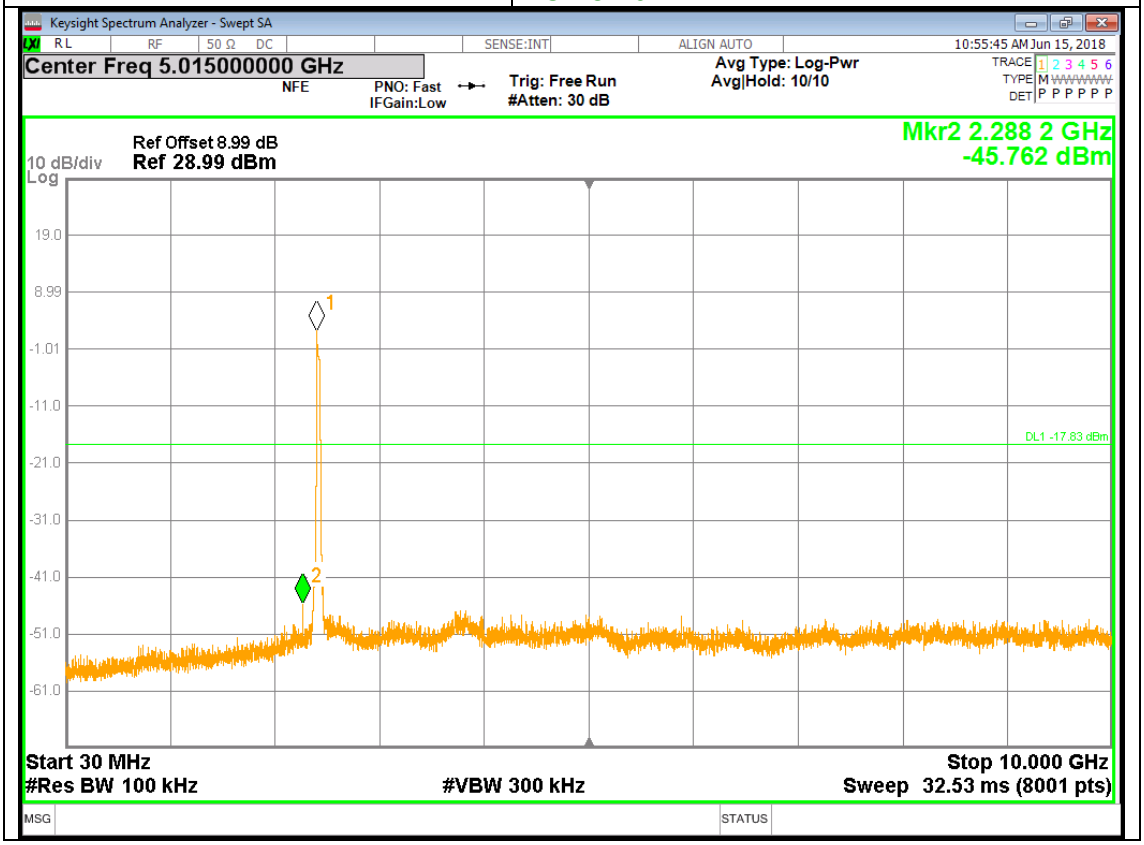


Middle Channel

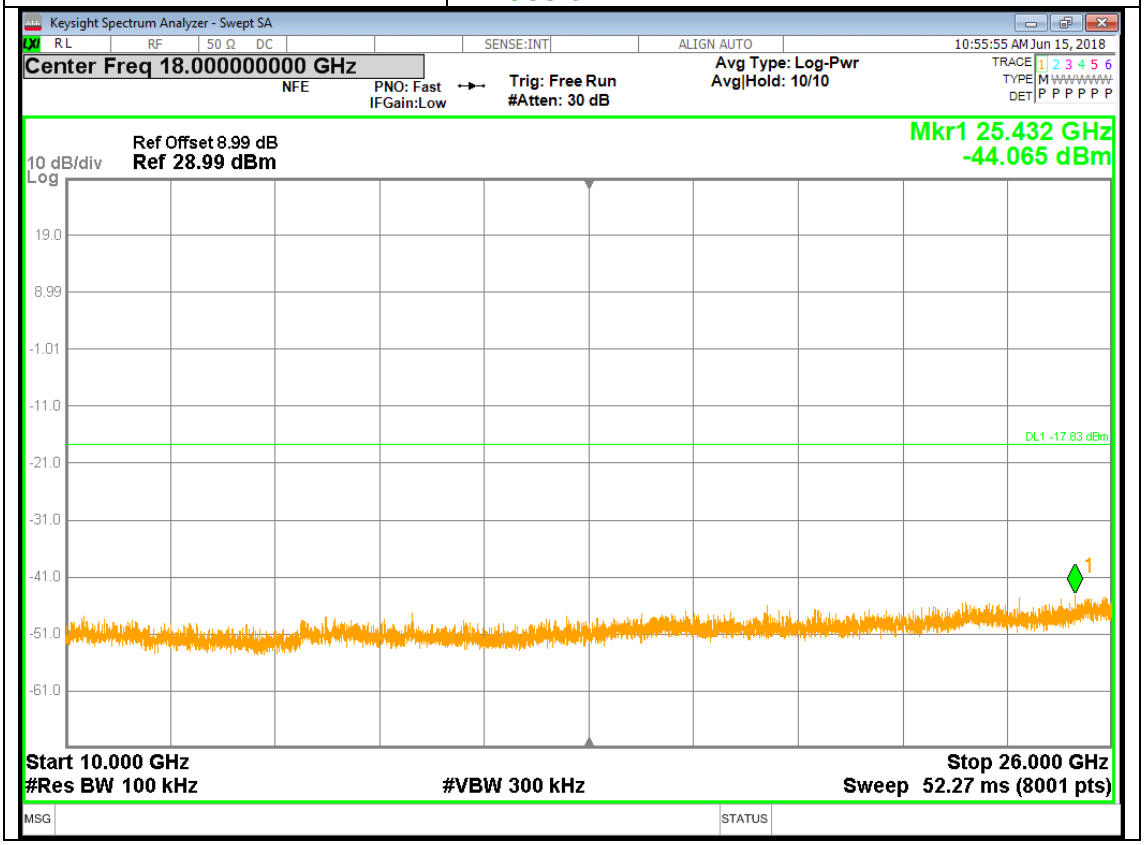
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2429.580MHz@2.174 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2288.205MHz@-45.762 dBm**

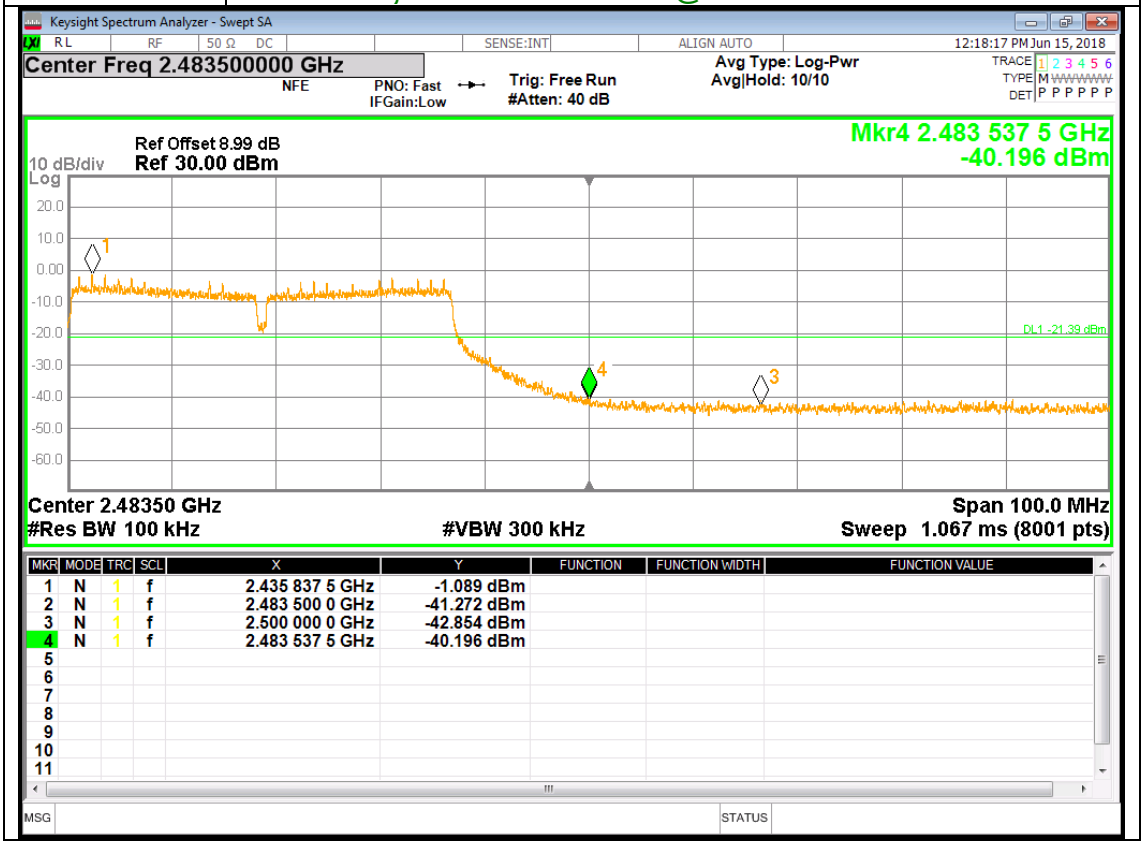


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25432.000MHz@-44.065 dBm**

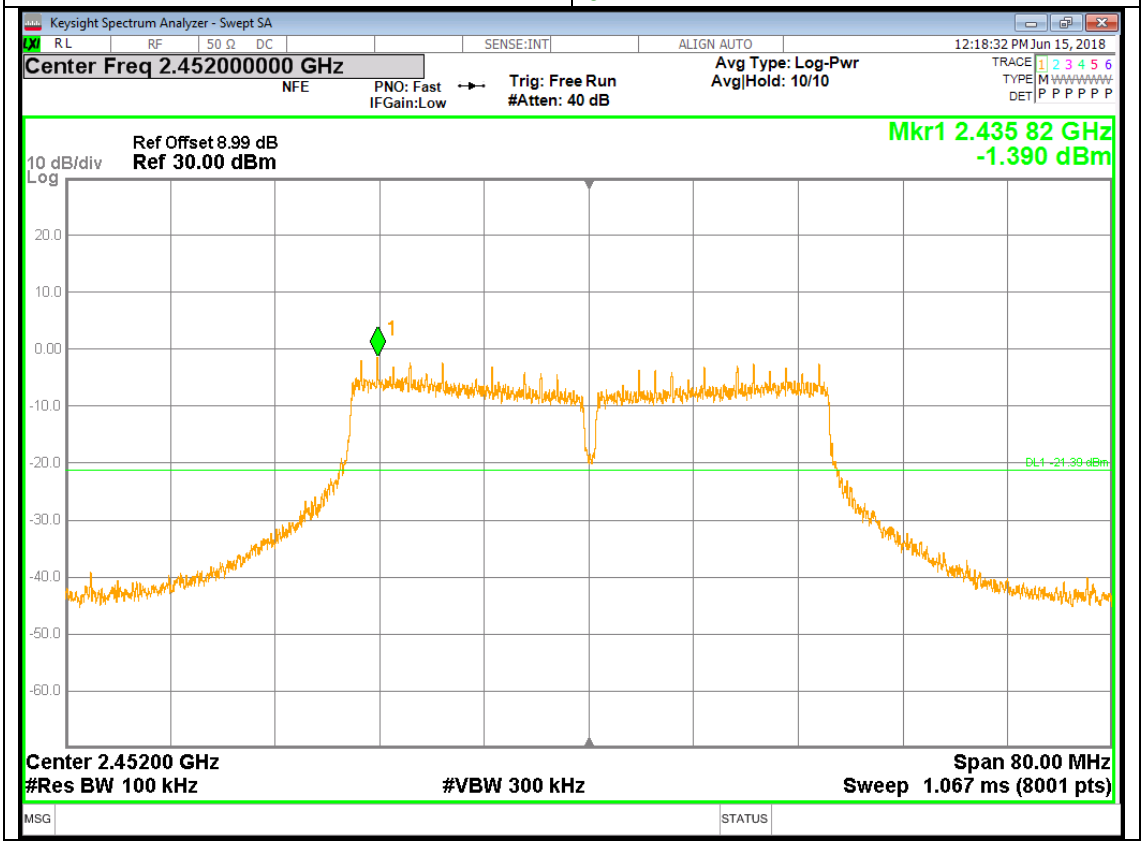


High Channel

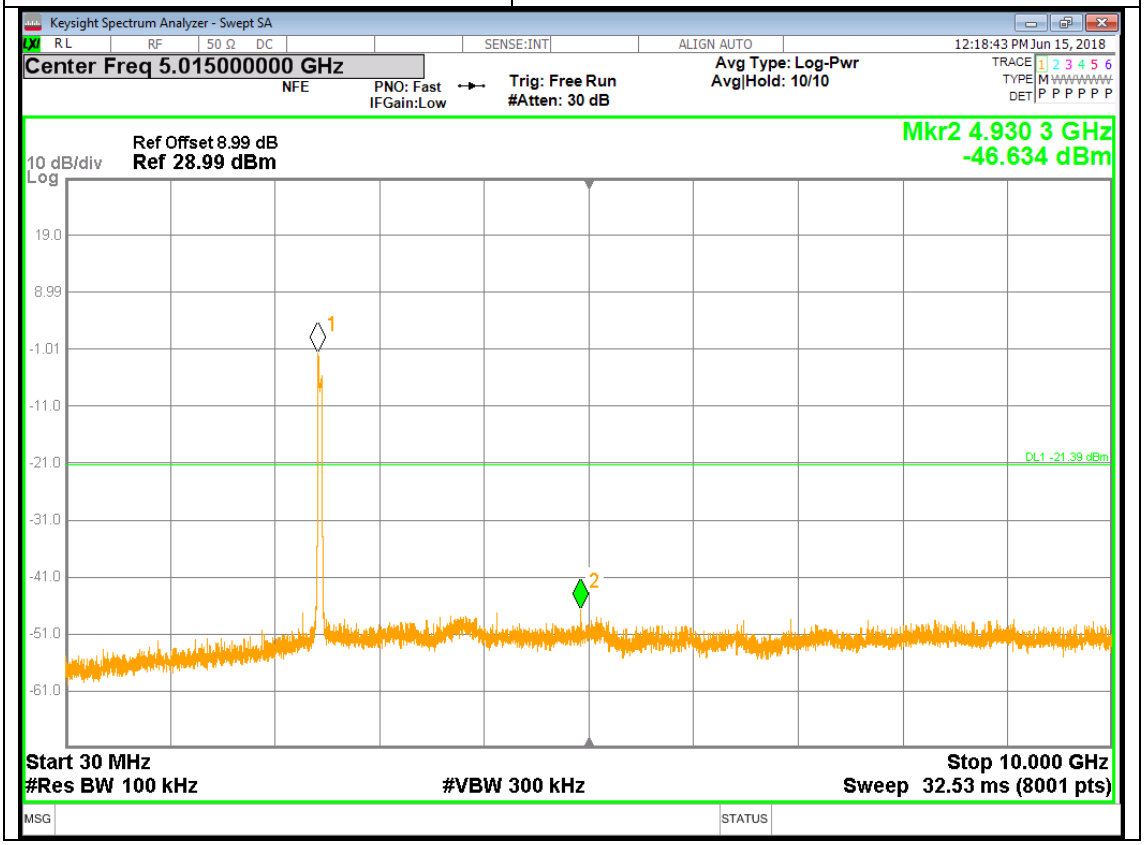
Test Case: Bandedge Compliance	
Mode: 11N40SISO	Ant: Ant0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-1.089dBm;Max:2483.538MHz@-40.196dBm39.107dbc**



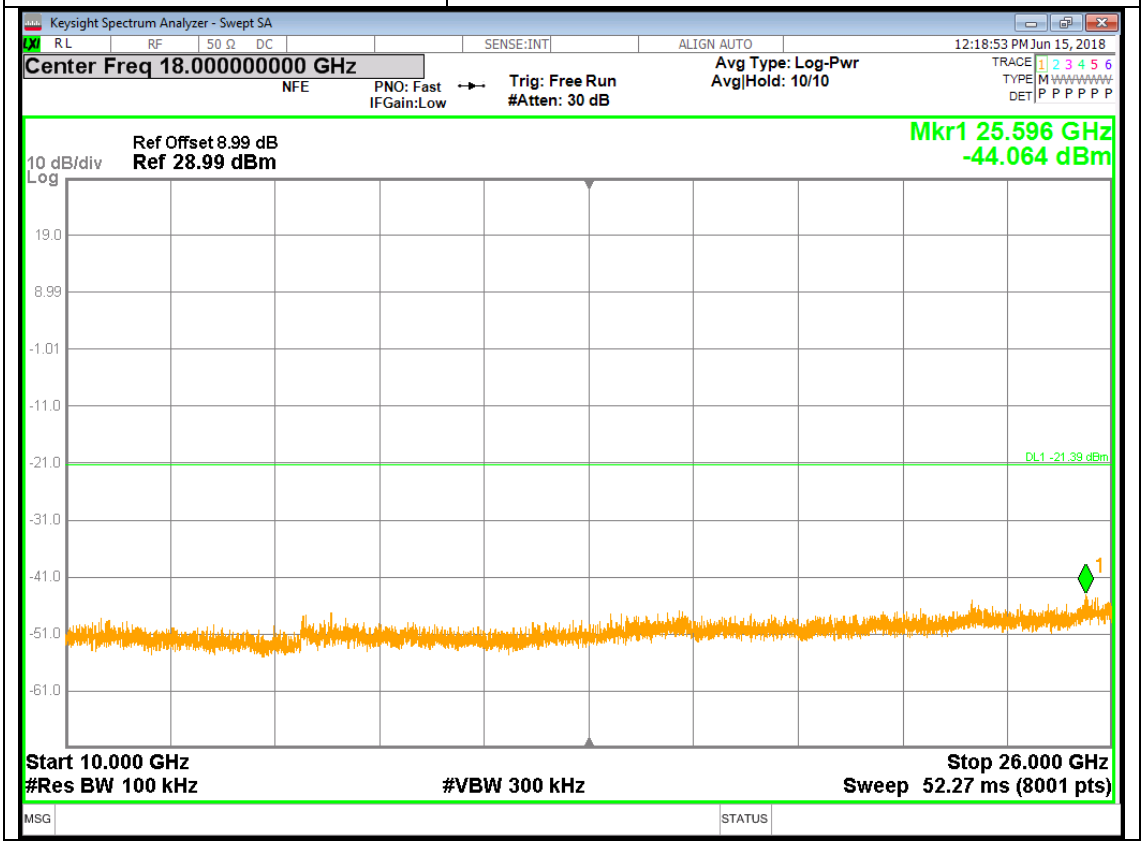
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2435.820MHz@-1.390 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;4930.255MHz@-46.634 dBm**



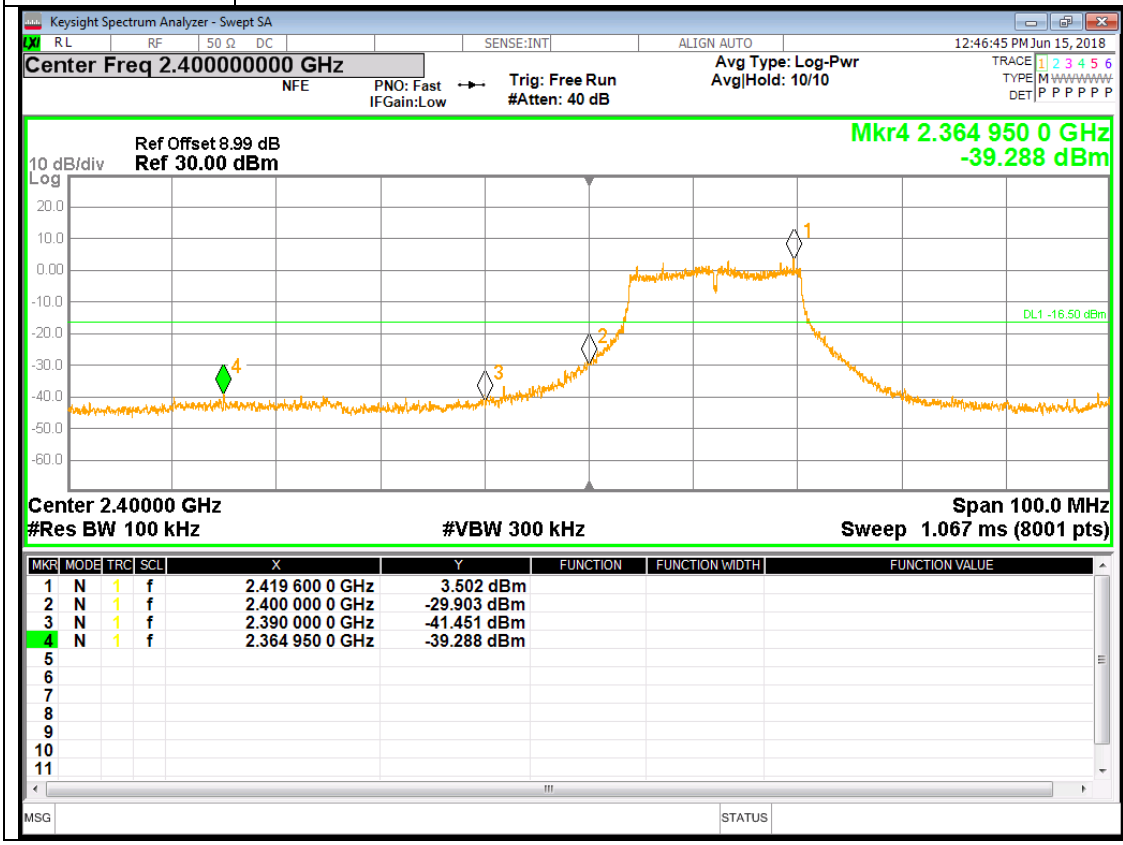
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40SISO	Ant: Ant0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25596.000MHz@-44.064 dBm**



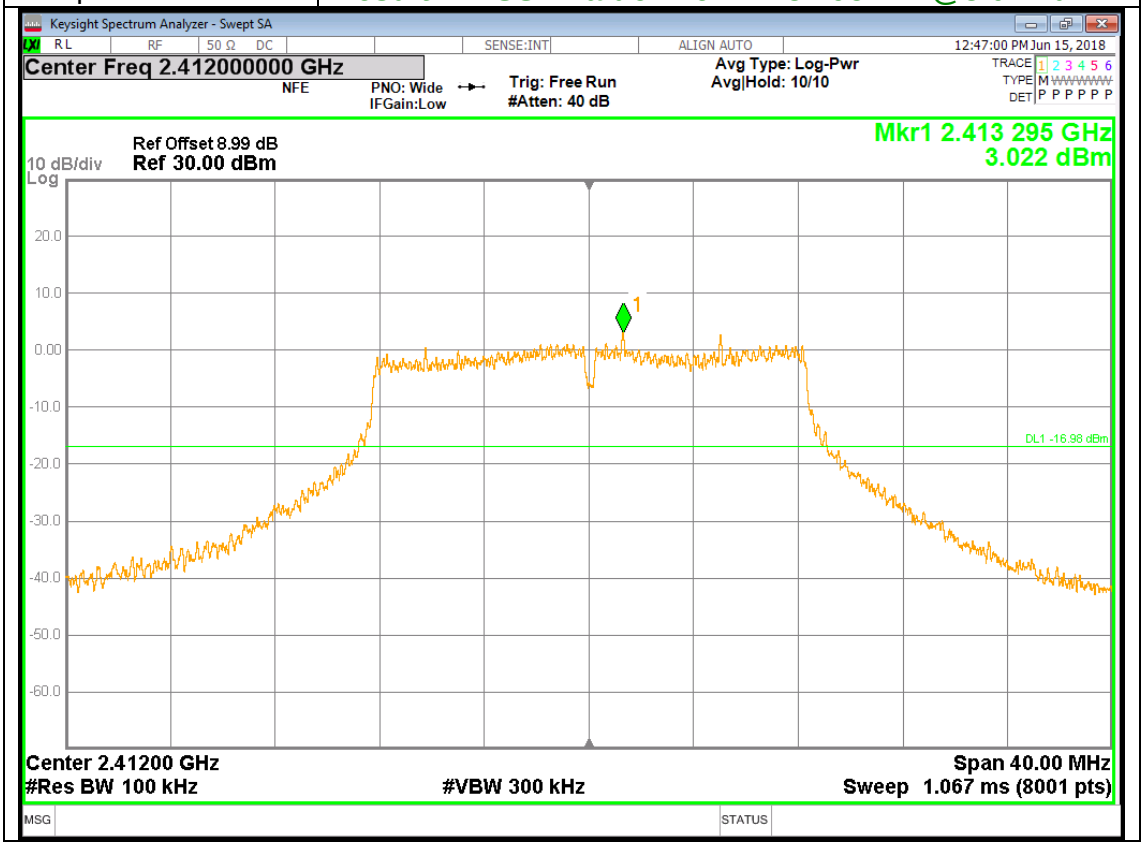
7.5.5. 802.11g MIMO MODE

Low Channel

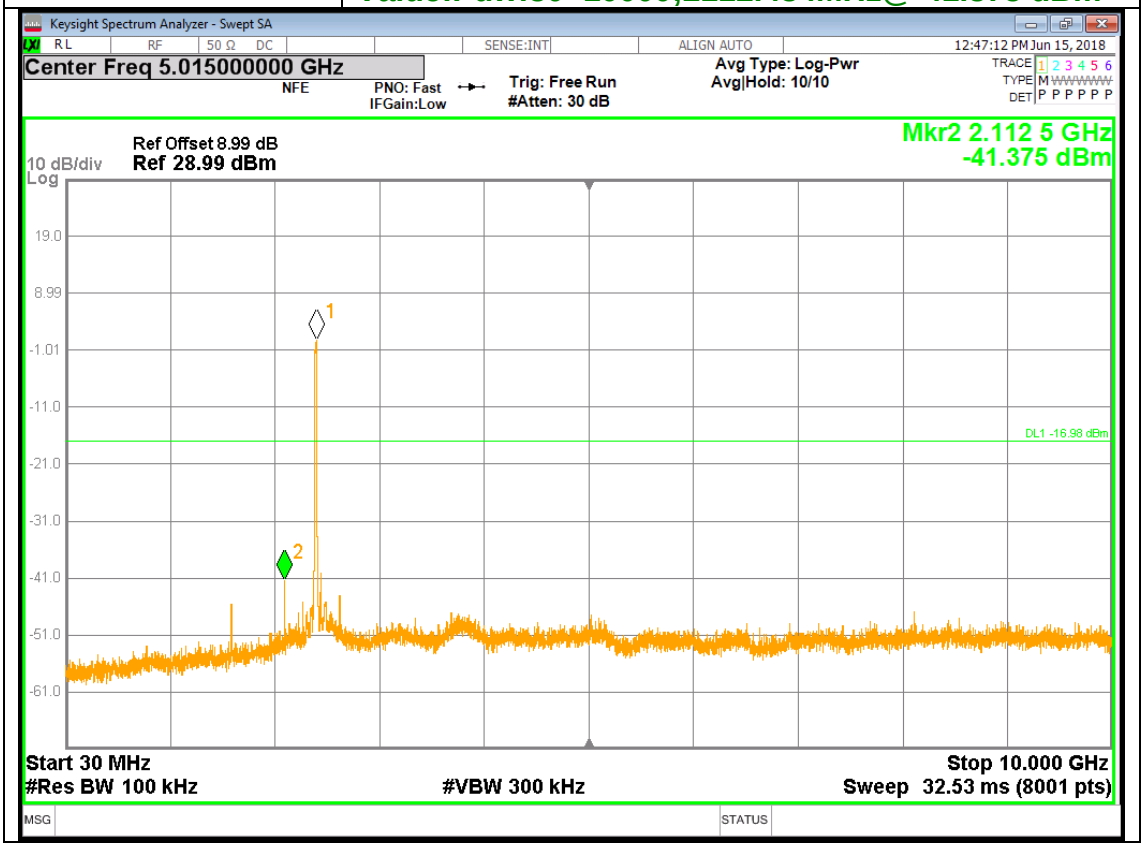
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:3.502dBm;Max:2364.950MHz@ -39.288dBm42.790dbc**



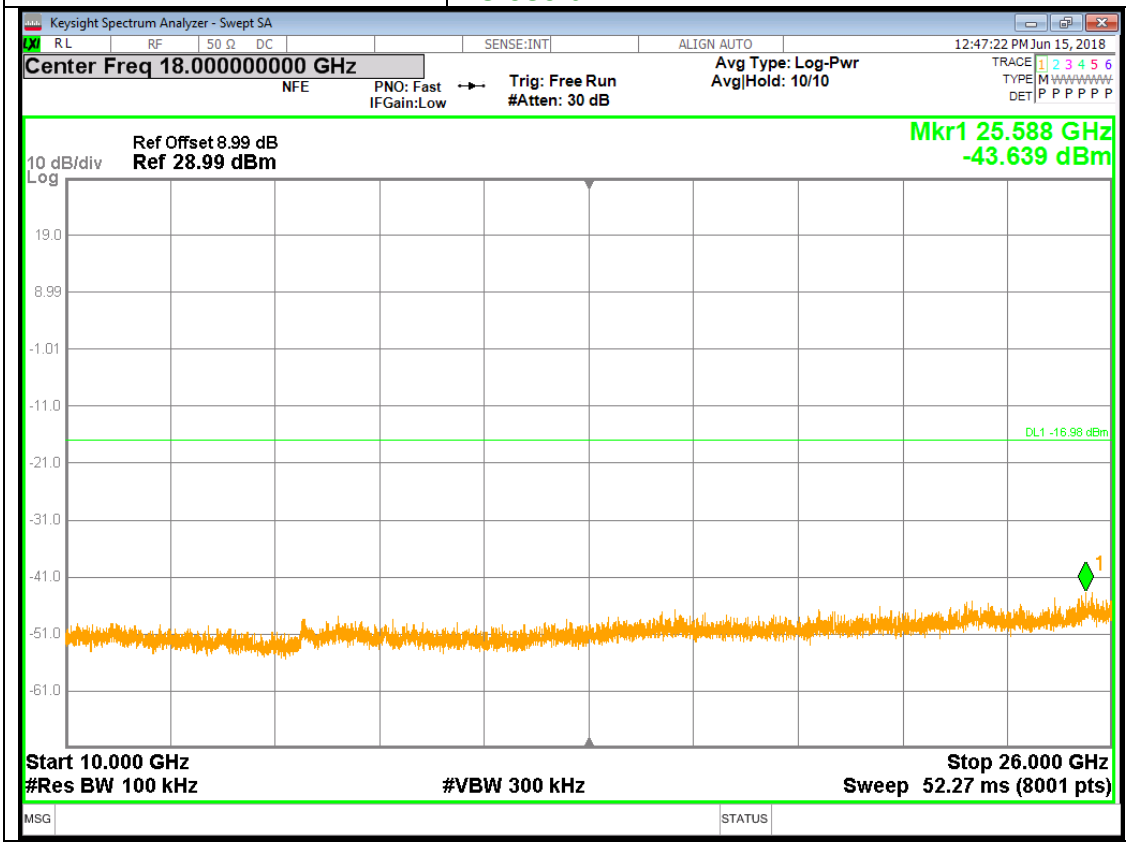
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2413.295MHz@3.022 dBm**



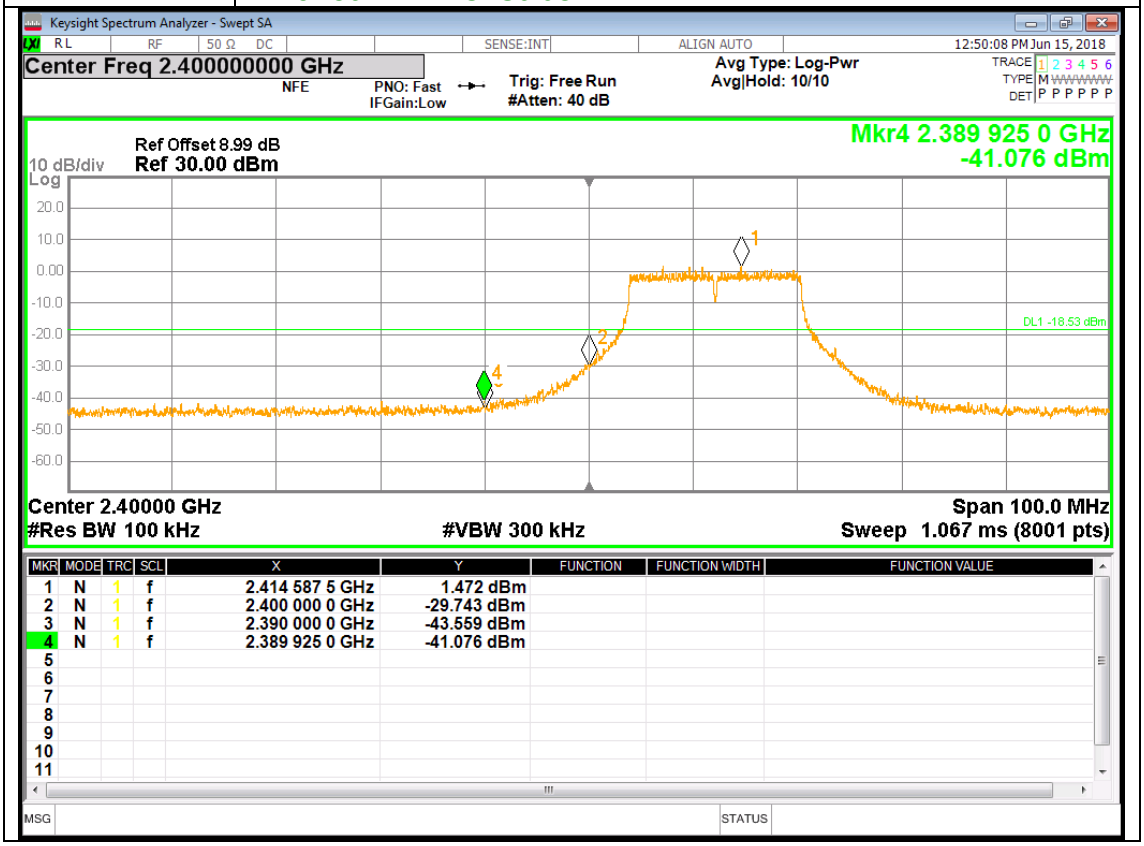
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-41.375 dBm**



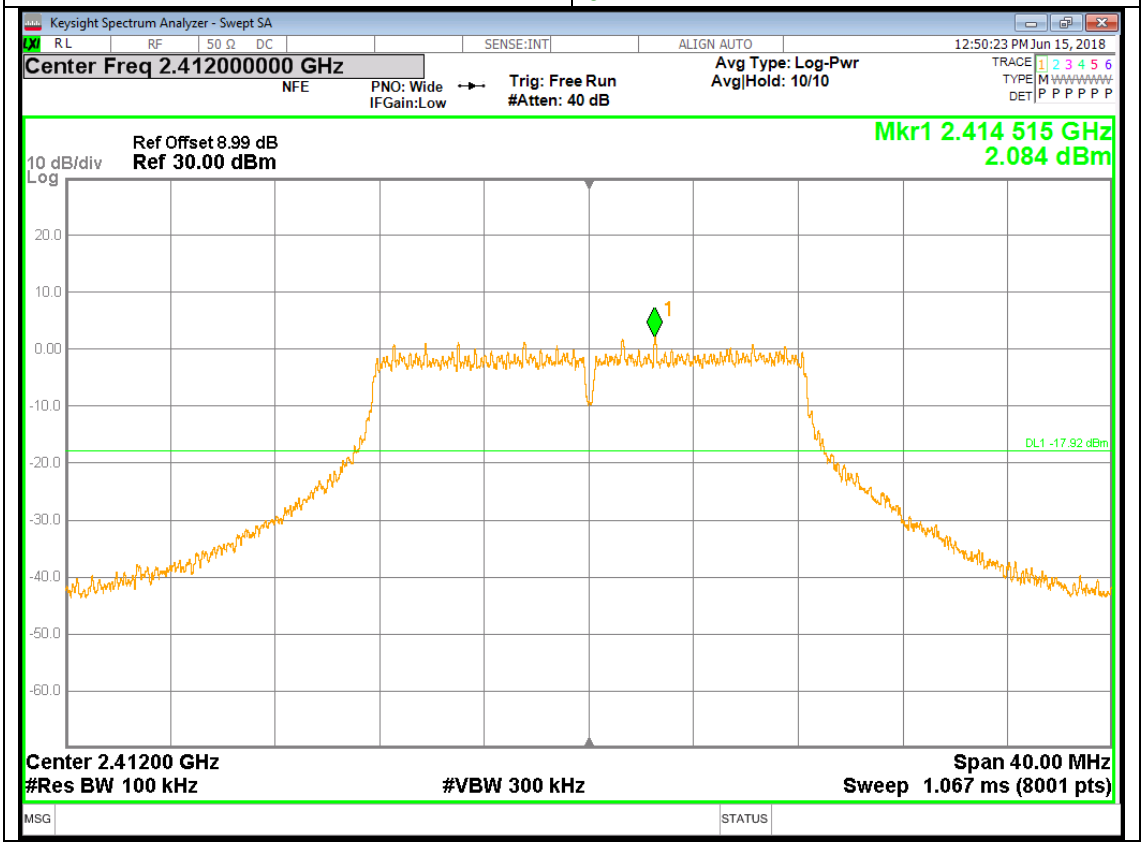
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25588.000MHz@-43.639 dBm**



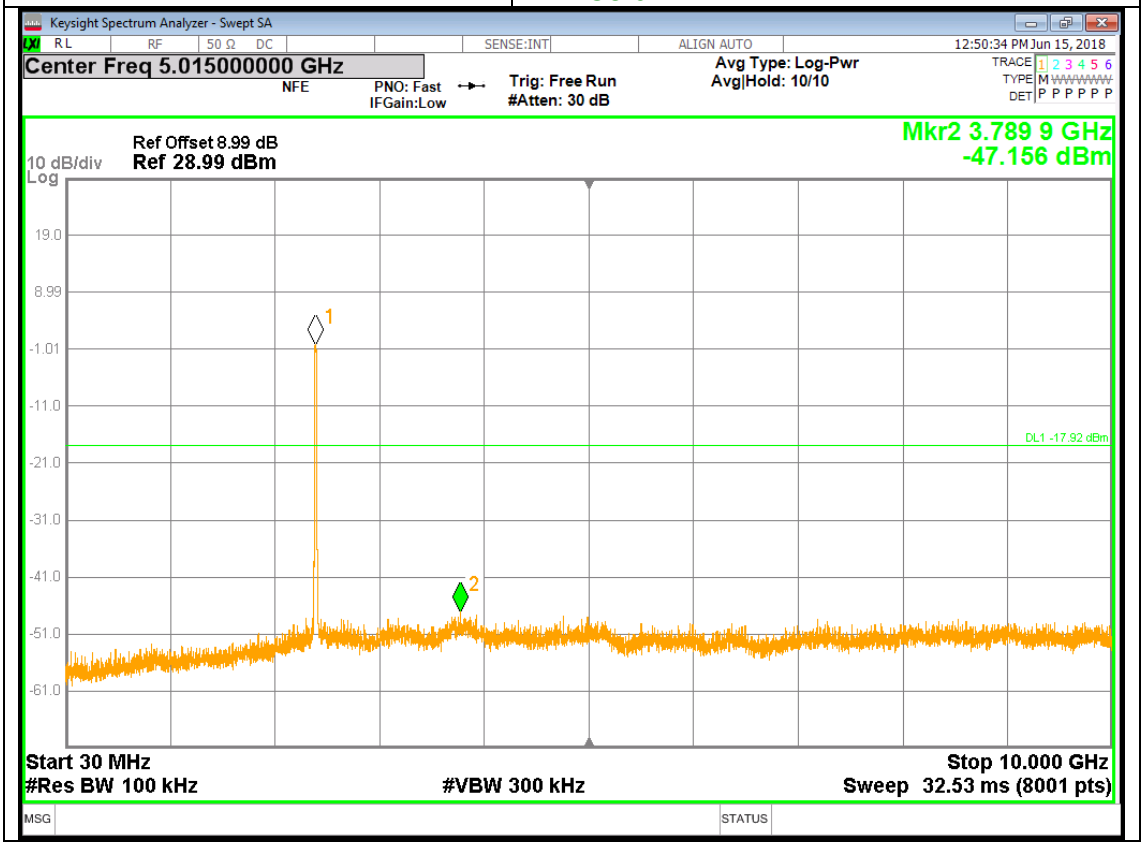
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.472dBm;Max:2389.925MHz@-41.076dBm42.548dbc**



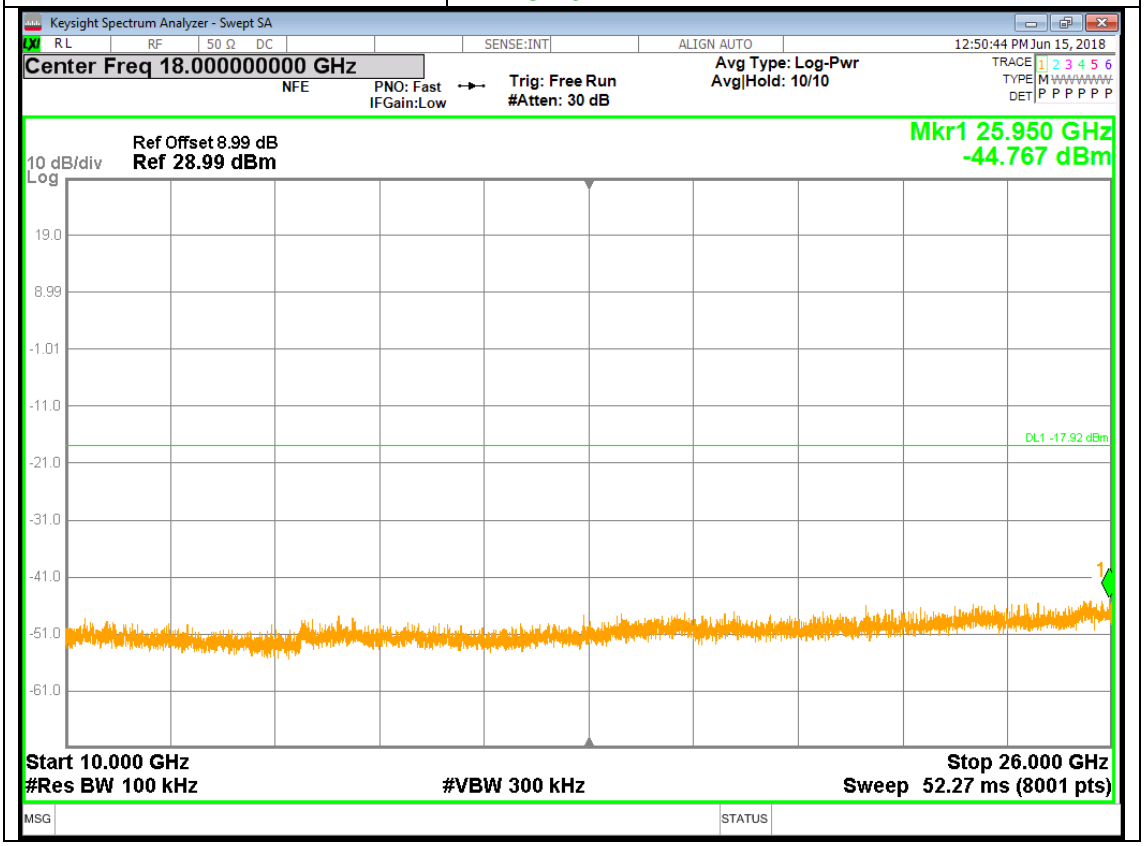
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2414.515MHz@2.084 dBm**



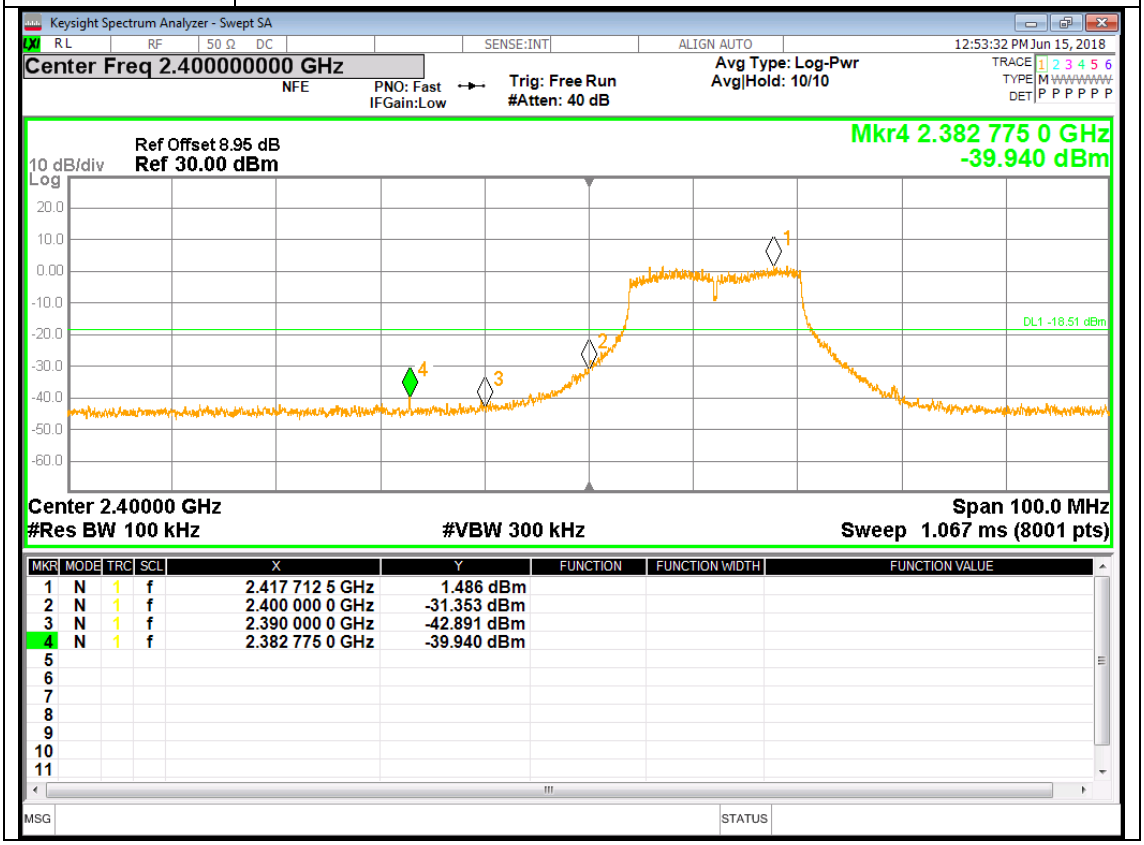
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3789.936MHz@-47.156 dBm**



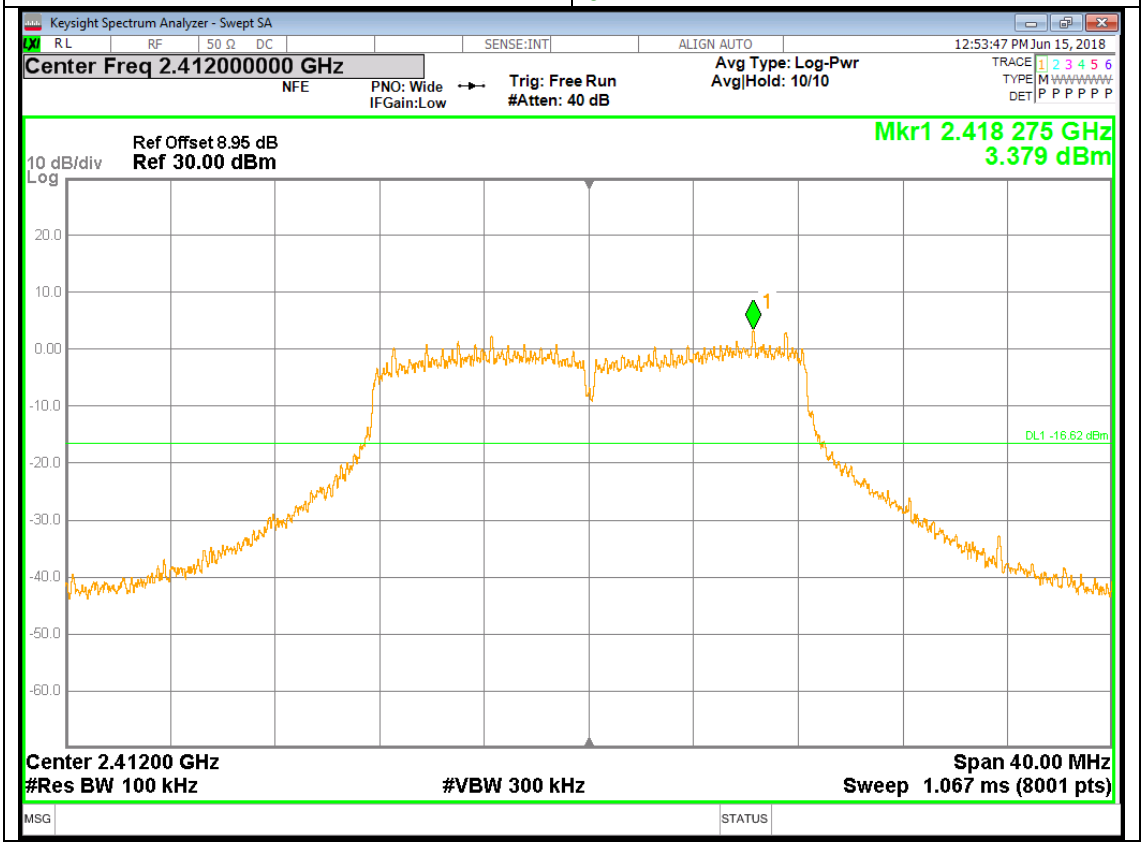
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25950.000MHz@-44.767 dBm**



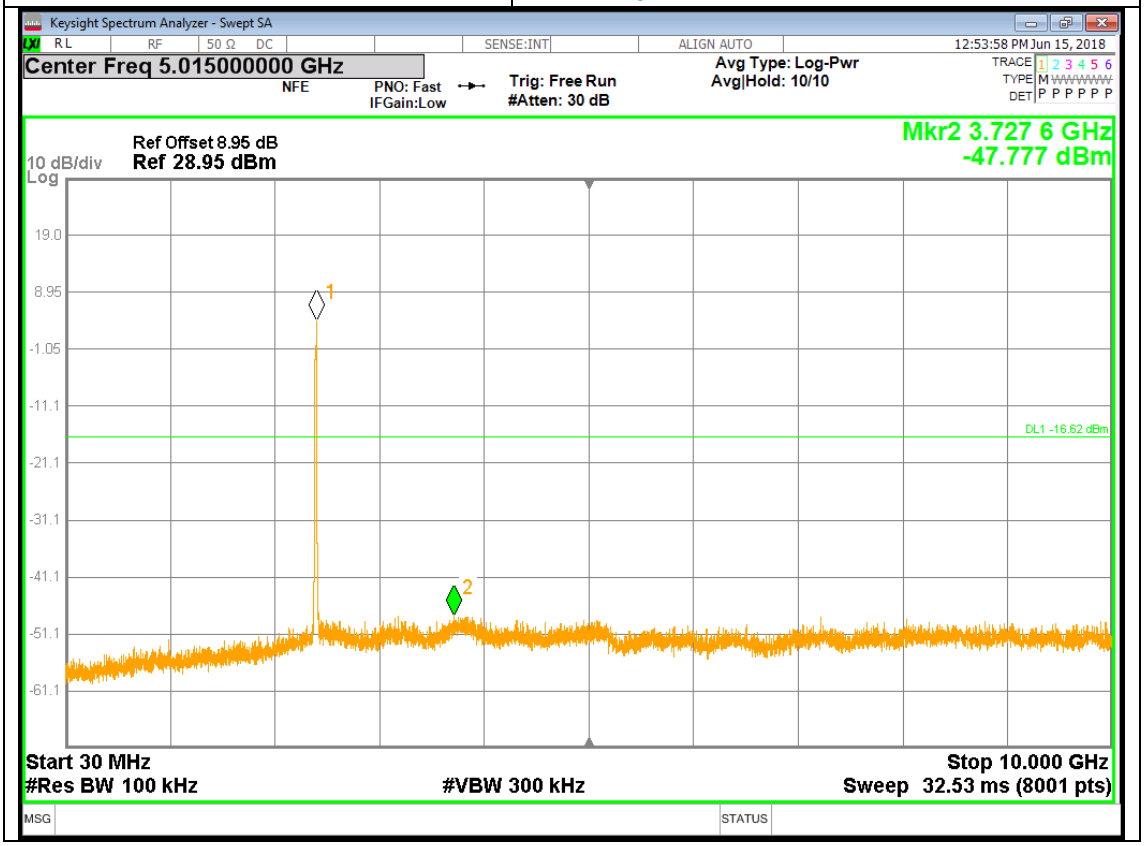
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.486dBm;Max:2382.775MHz@-39.940dBm41.426dbc**



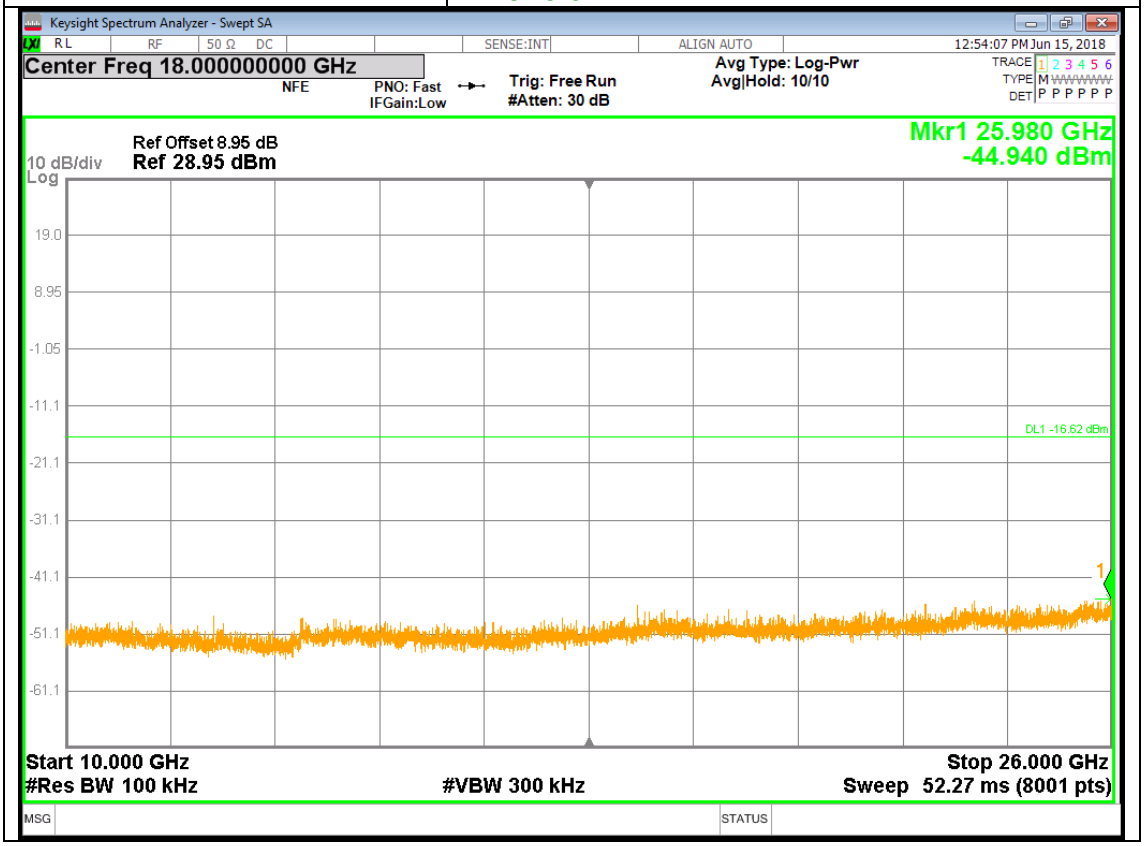
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2418.275MHz@3.379 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3727.624MHz@-47.777 dBm**

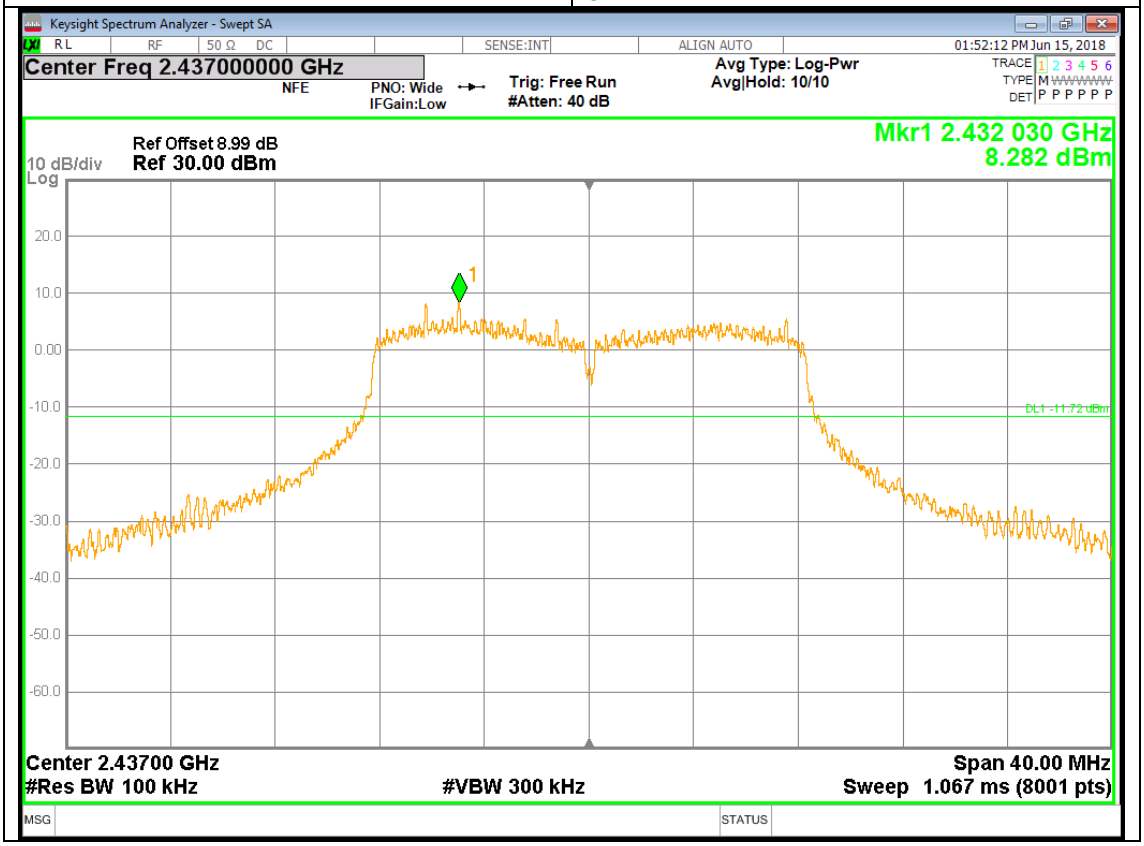


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25980.000MHz@-44.940 dBm**

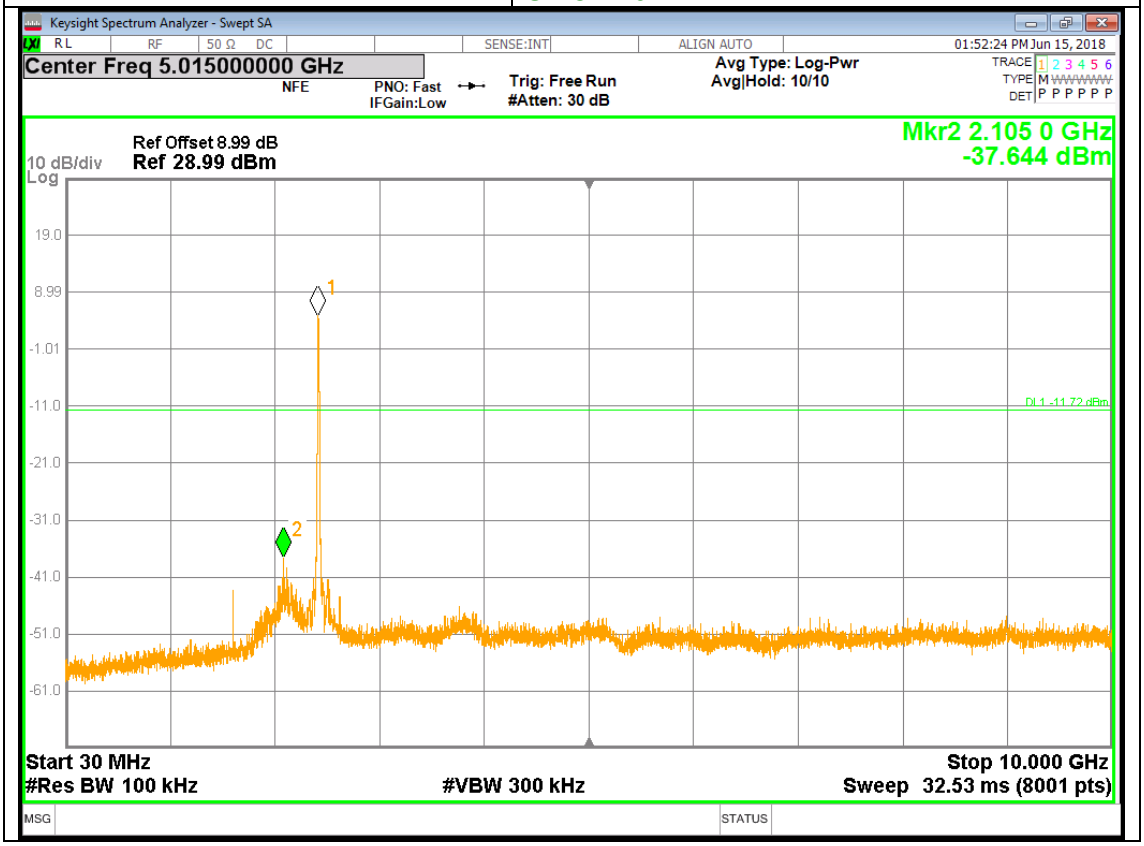


Middle Channel

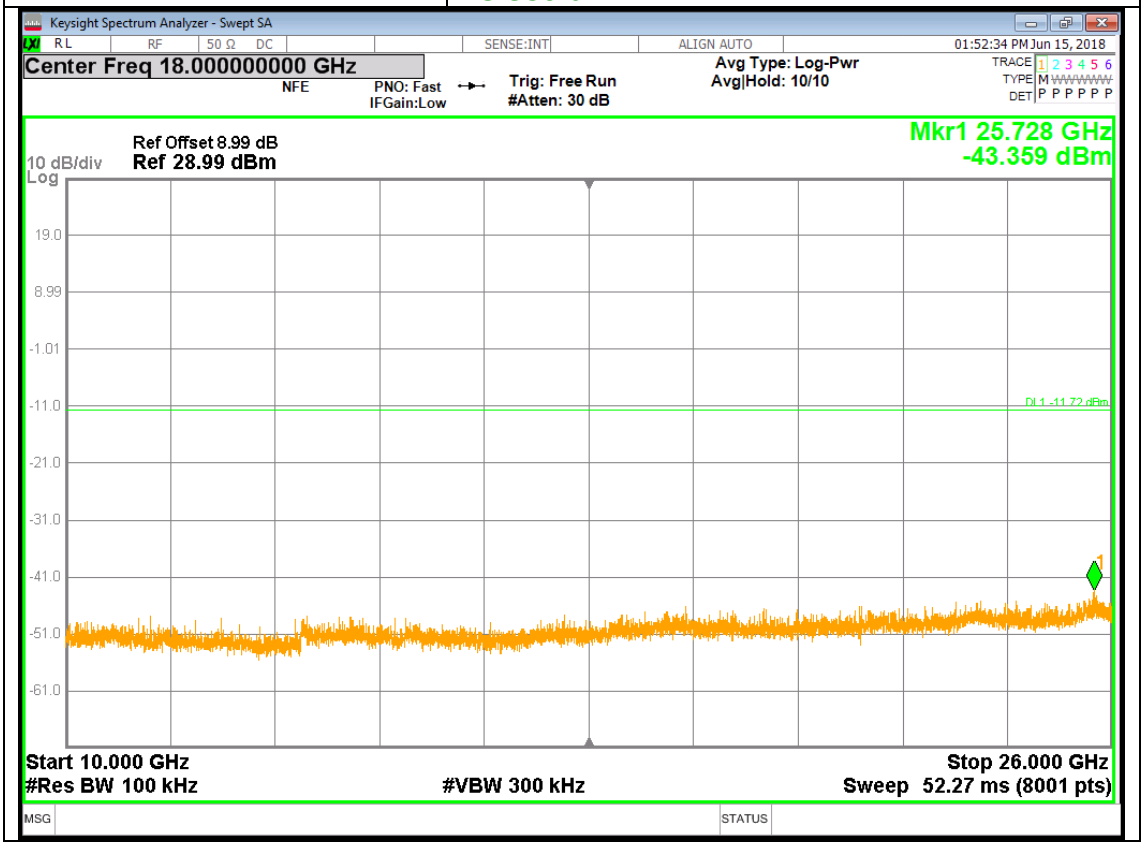
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2432.030MHz@8.282 dBm**



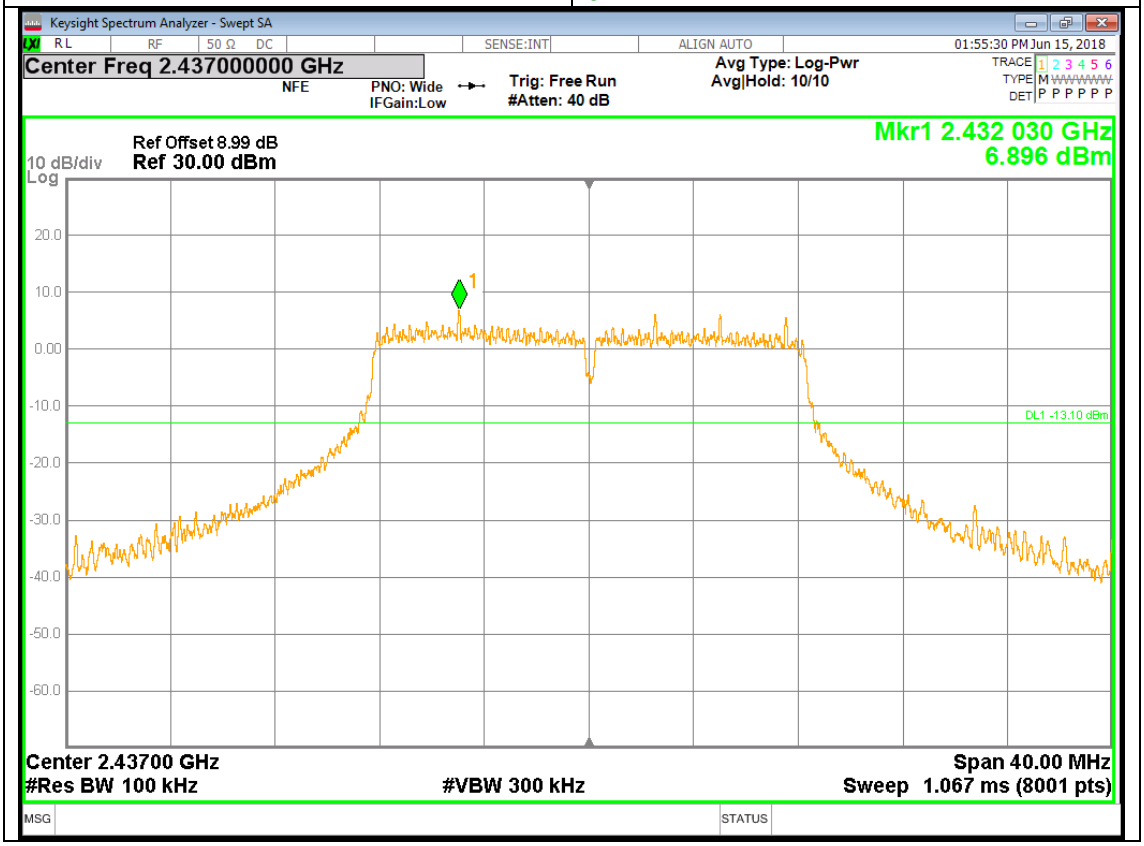
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2105.006MHz@-37.644 dBm**



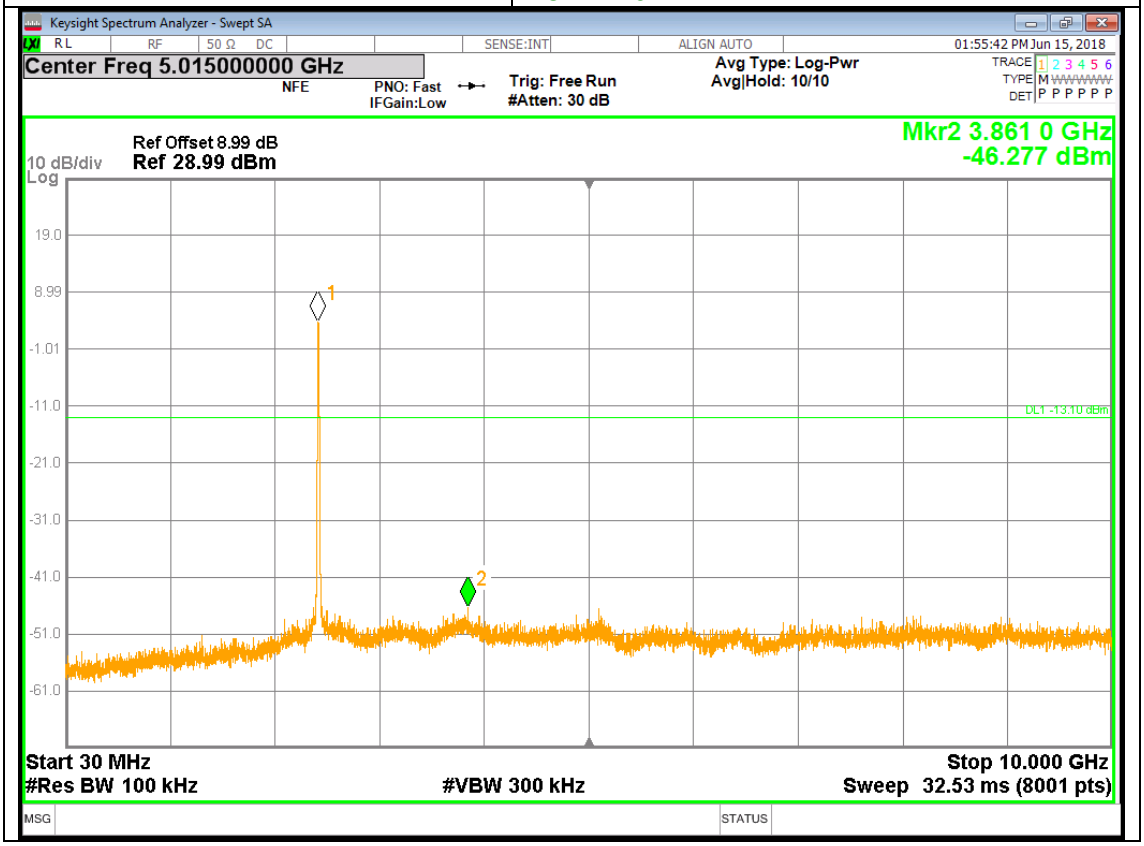
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25728.000MHz@-43.359 dBm**



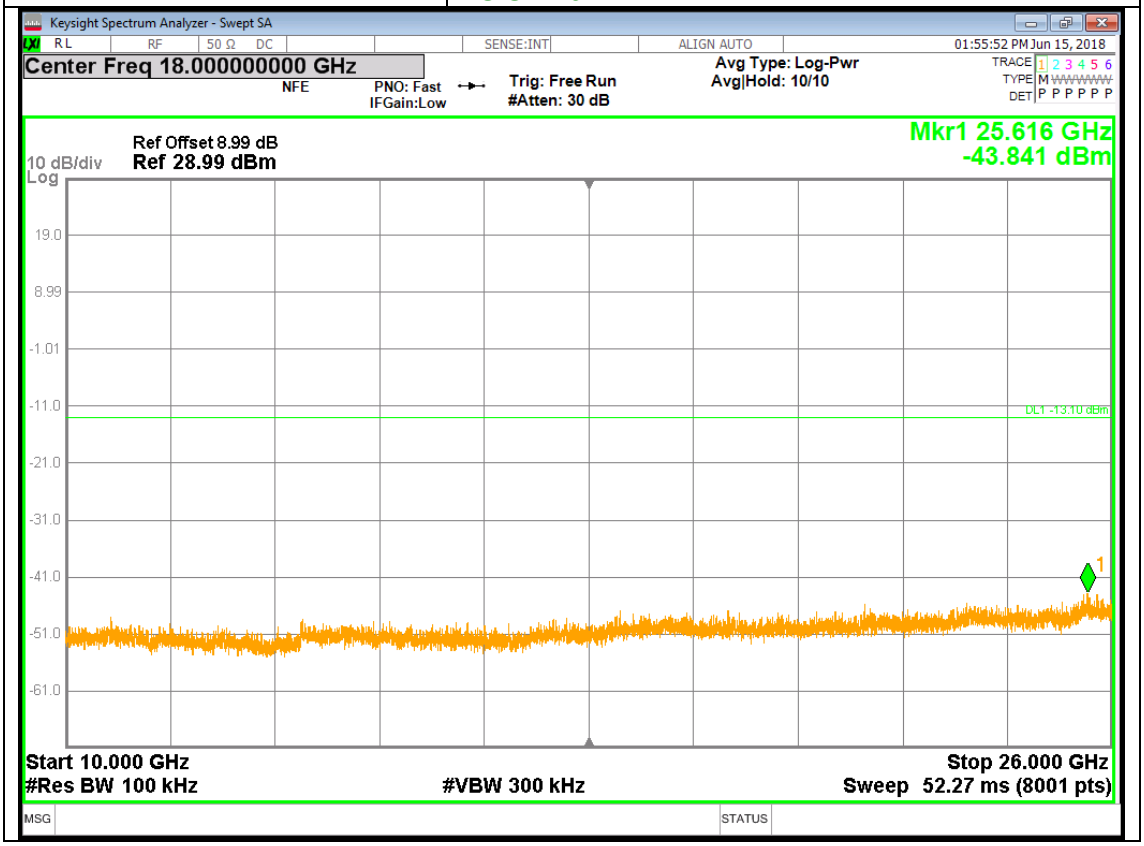
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2432.030MHz@6.896 dBm**



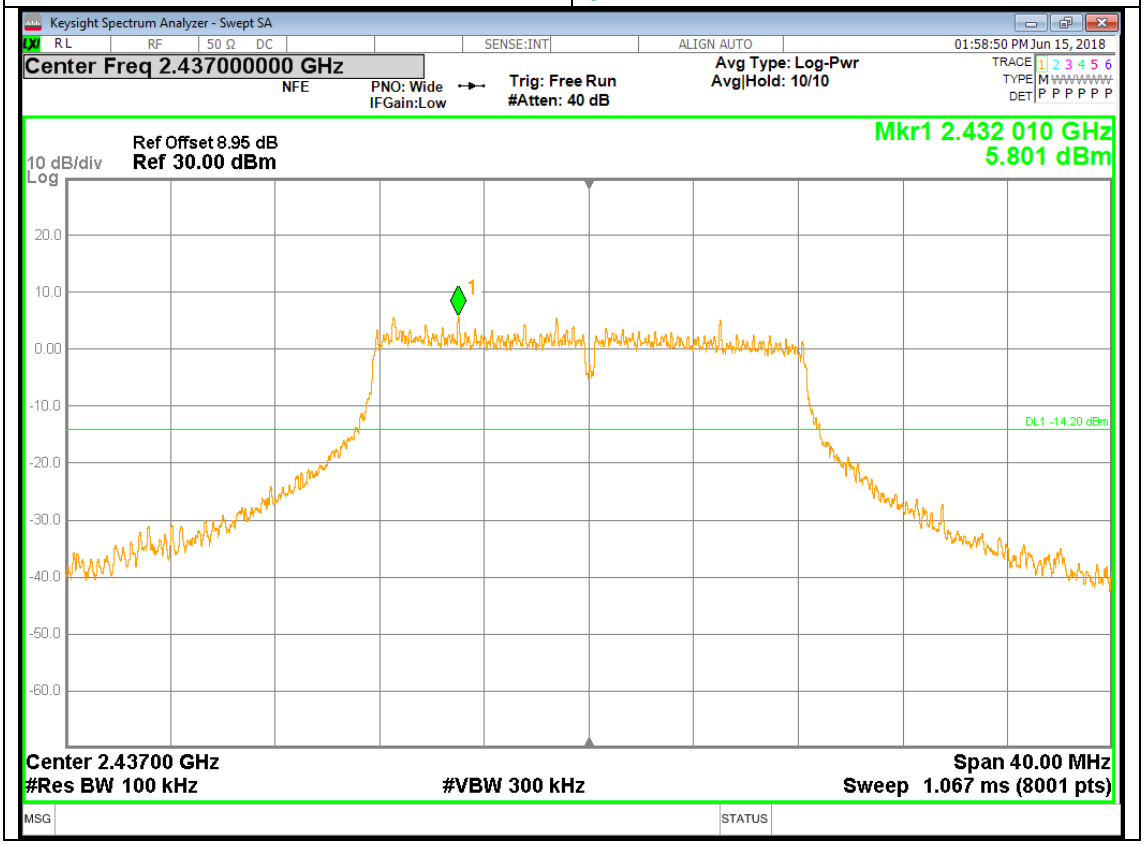
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3860.973MHz@-46.277 dBm**



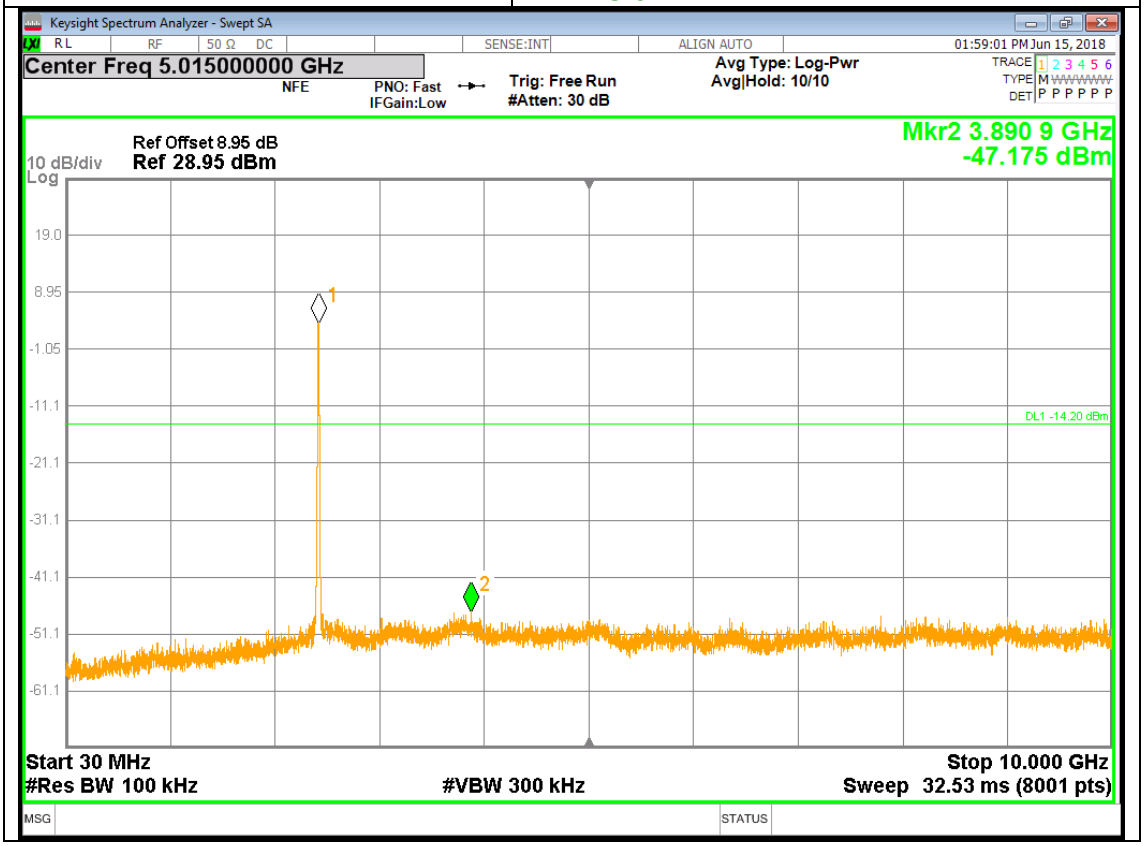
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25616.000MHz@-43.841 dBm**



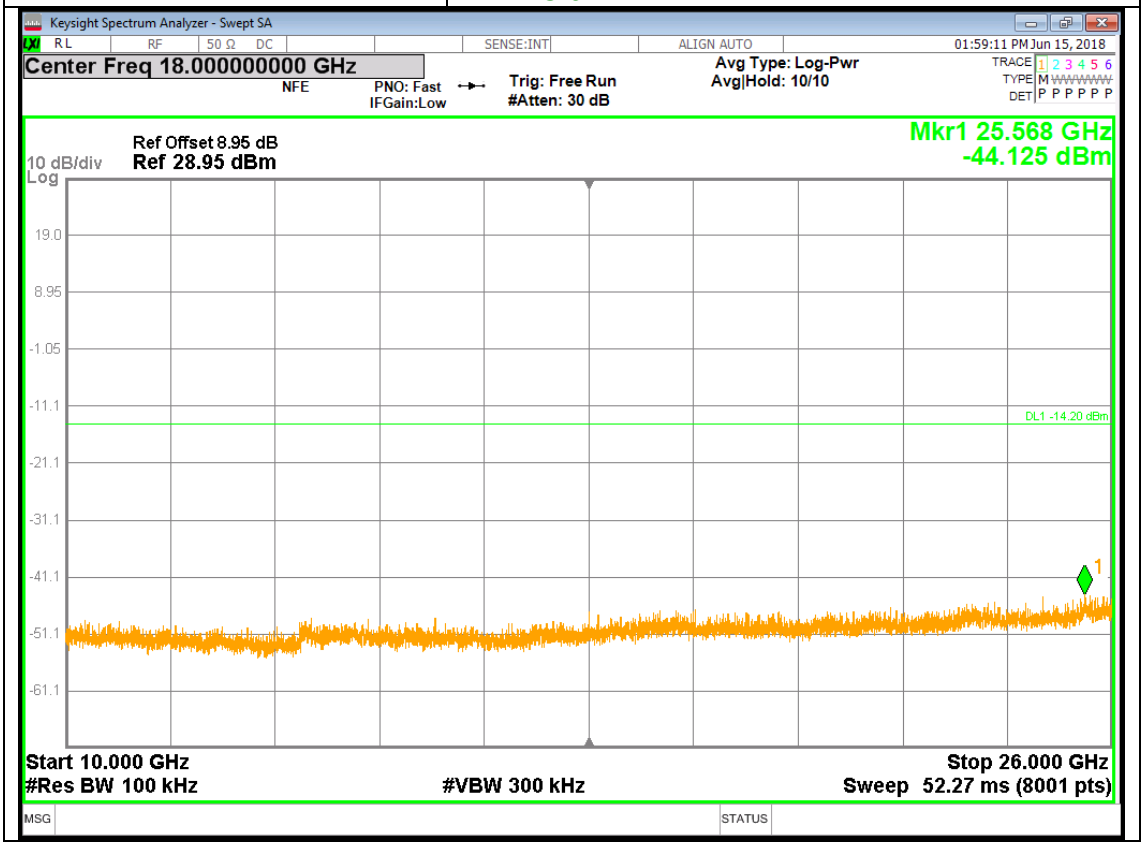
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2432.010MHz@5.801 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3890.883MHz@-47.175 dBm**

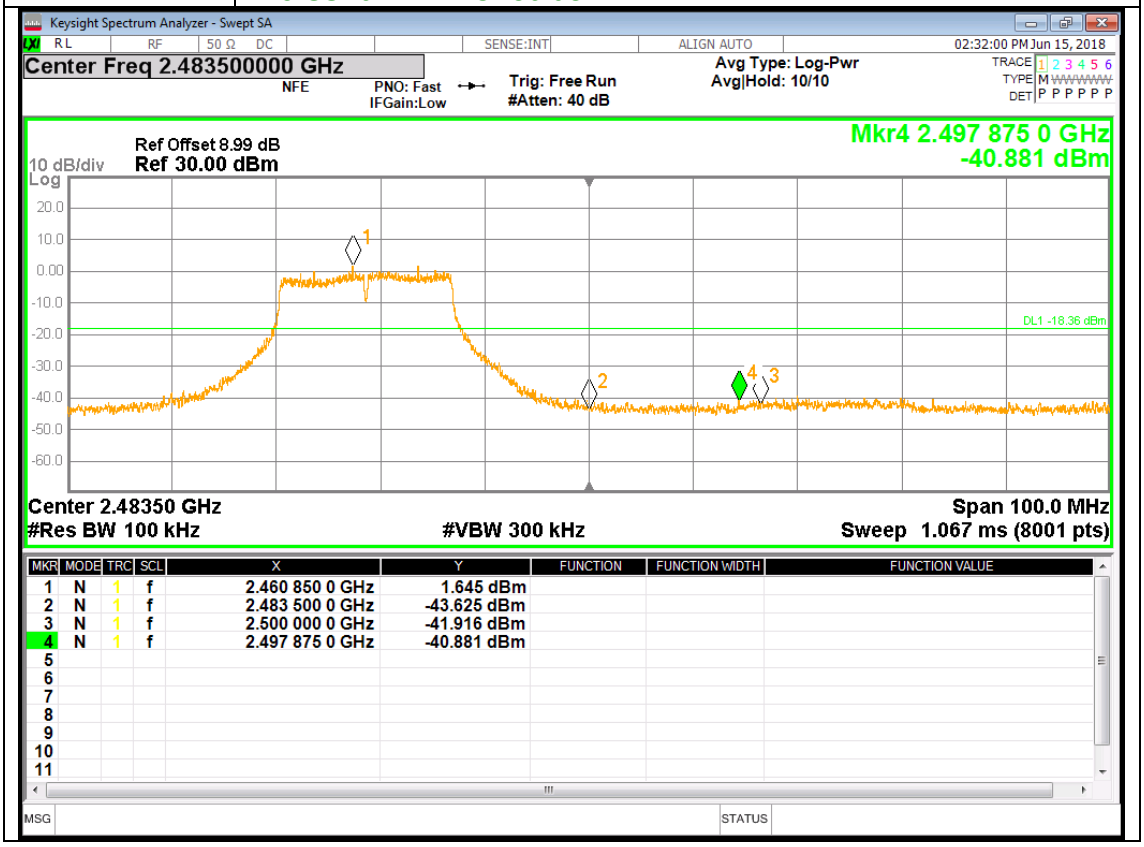


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25568.000MHz@-44.125 dBm**

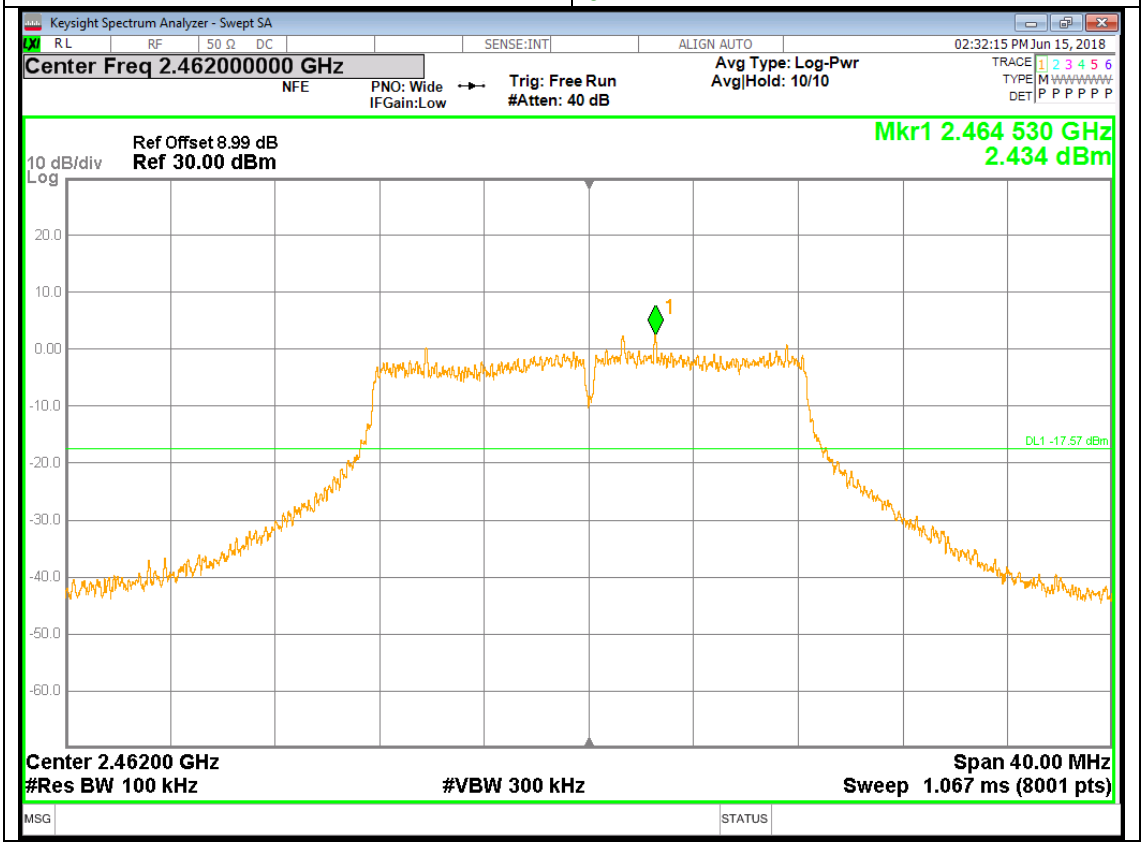


High Channel

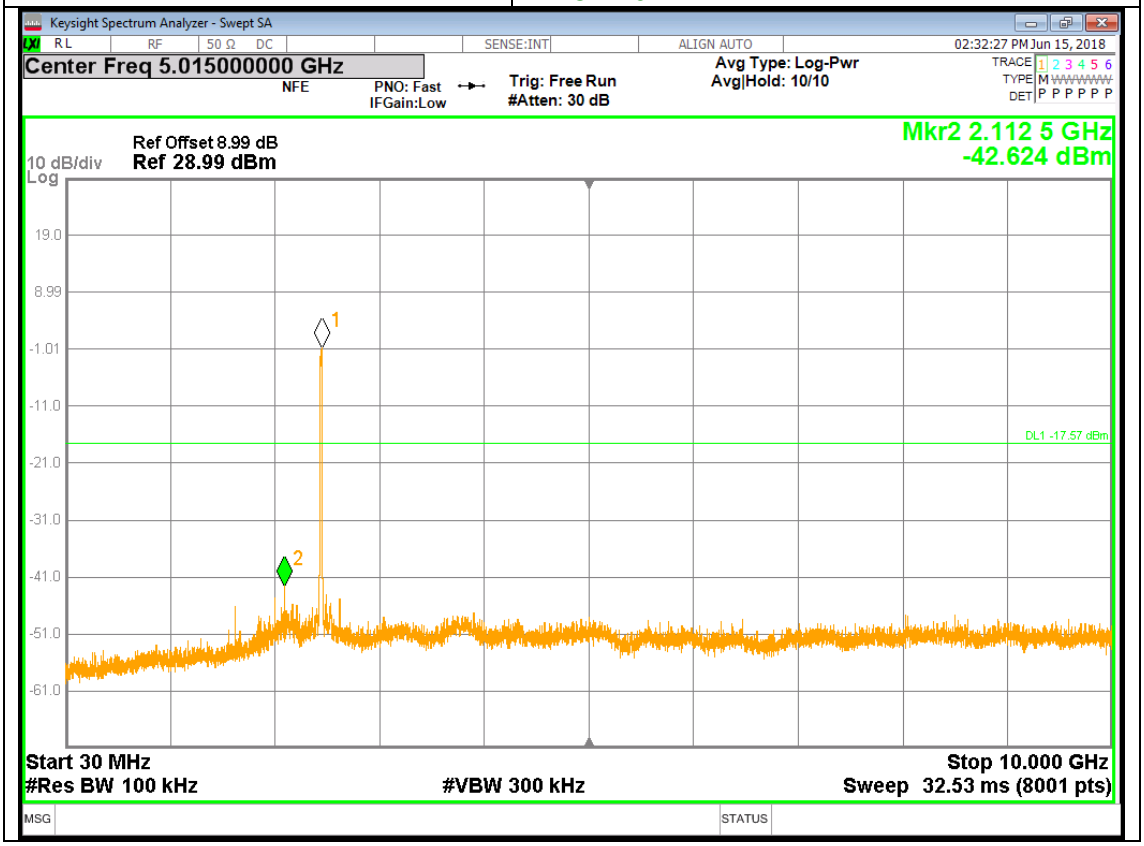
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.645dBm;Max:2497.875MHz@ -40.881dBm42.526dbc**



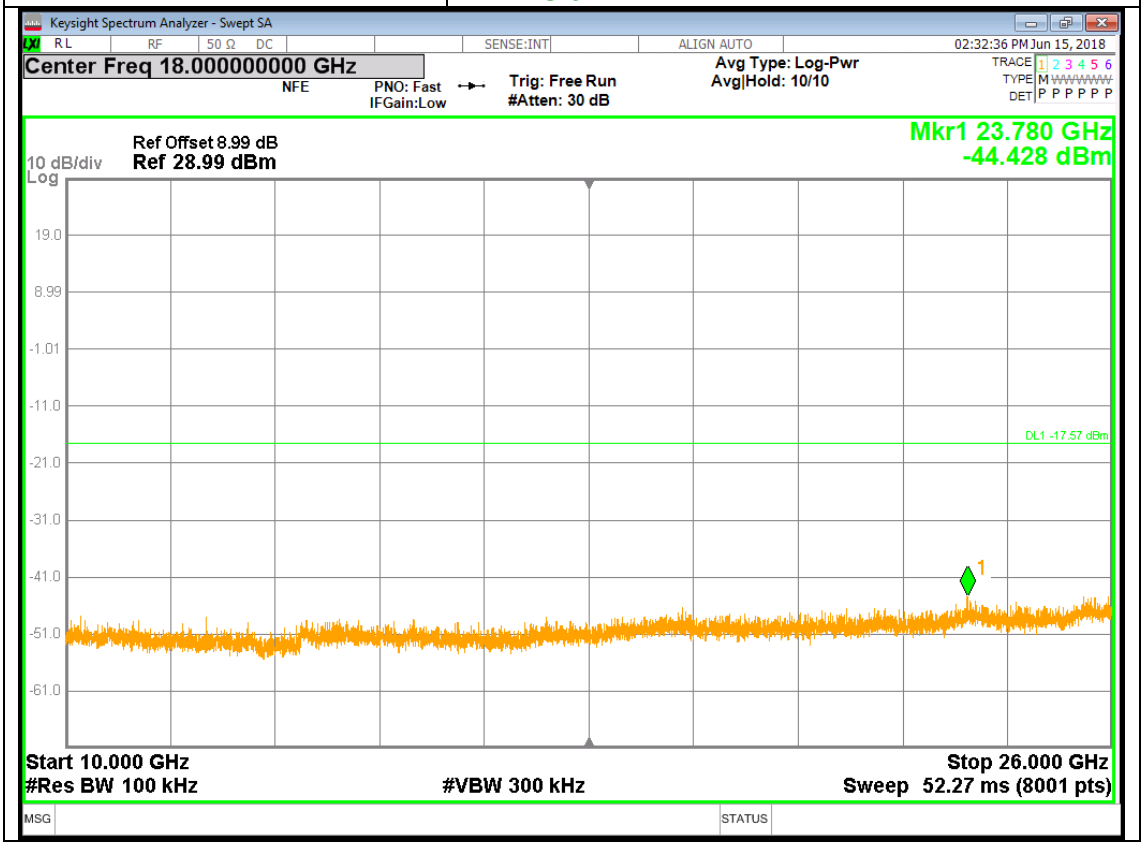
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2464.530MHz@2.434 dBm**



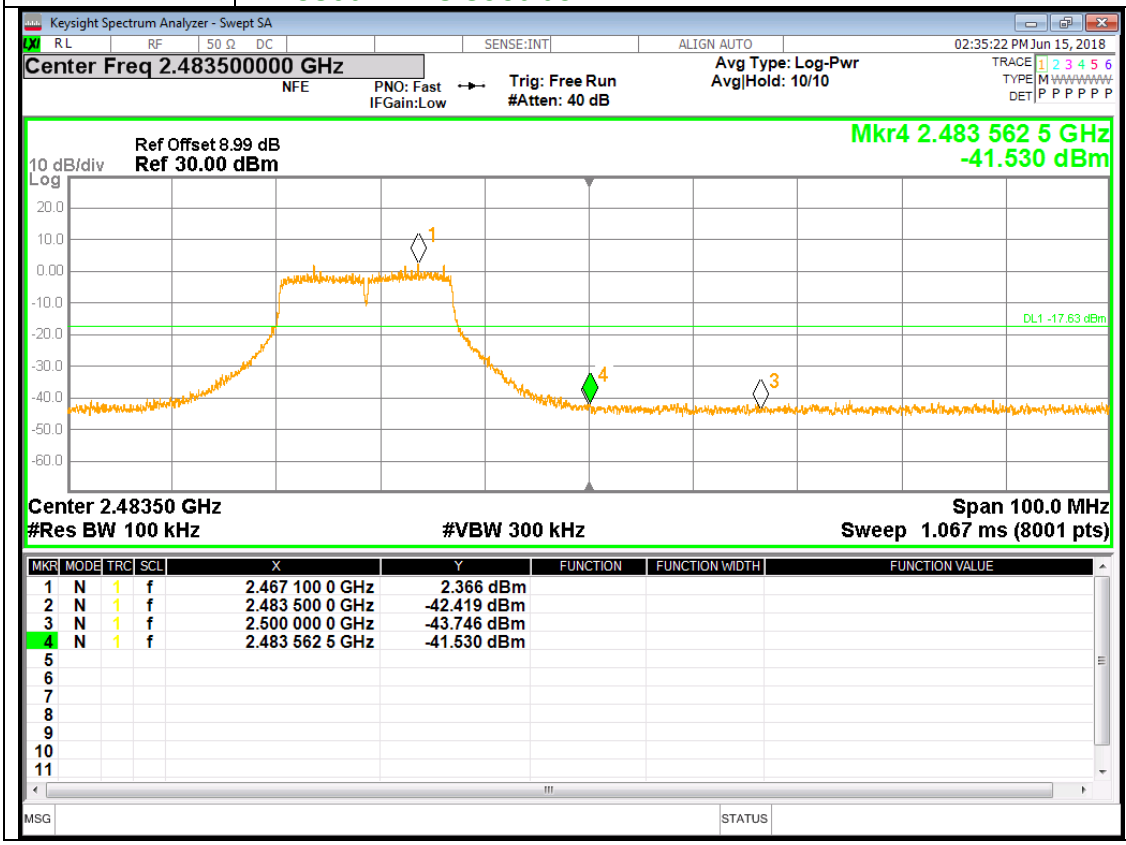
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-42.624 dBm**



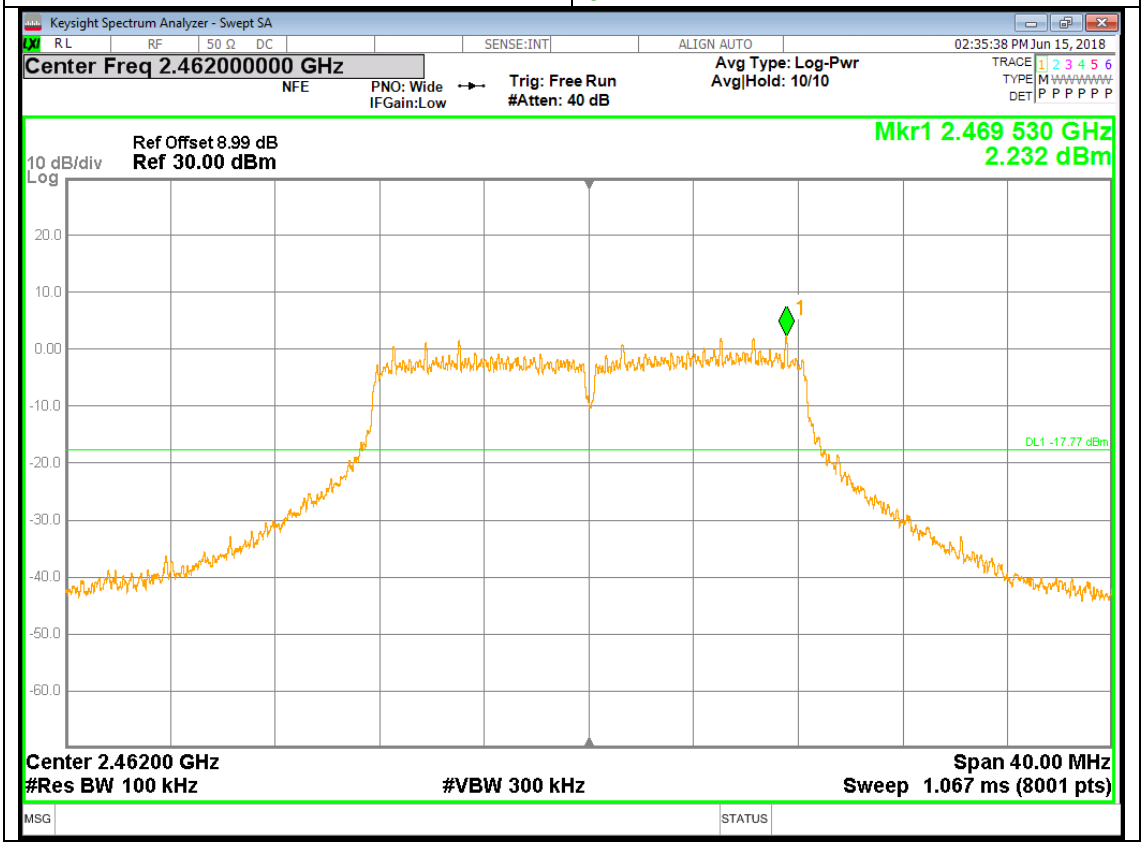
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;23780.000MHz@-44.428 dBm**



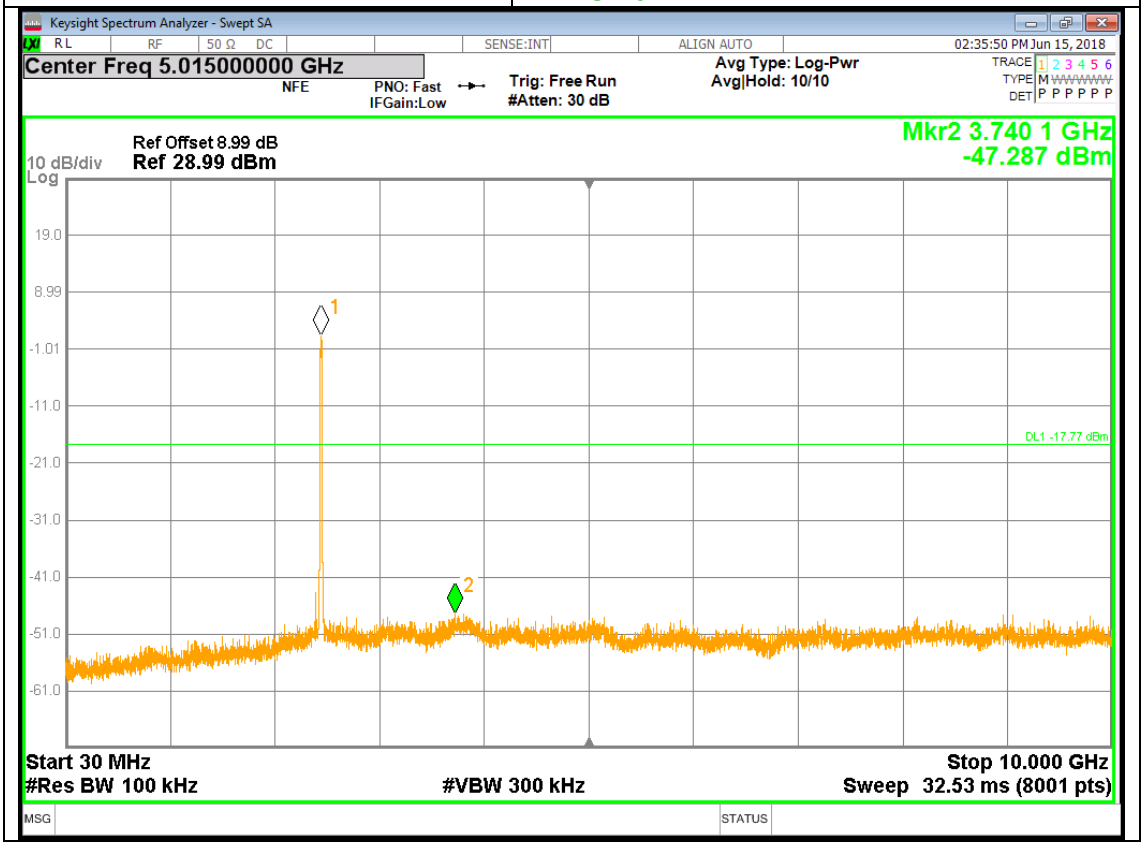
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:2.366dBm;Max:2483.563MHz@-41.530dBm43.896dbc**



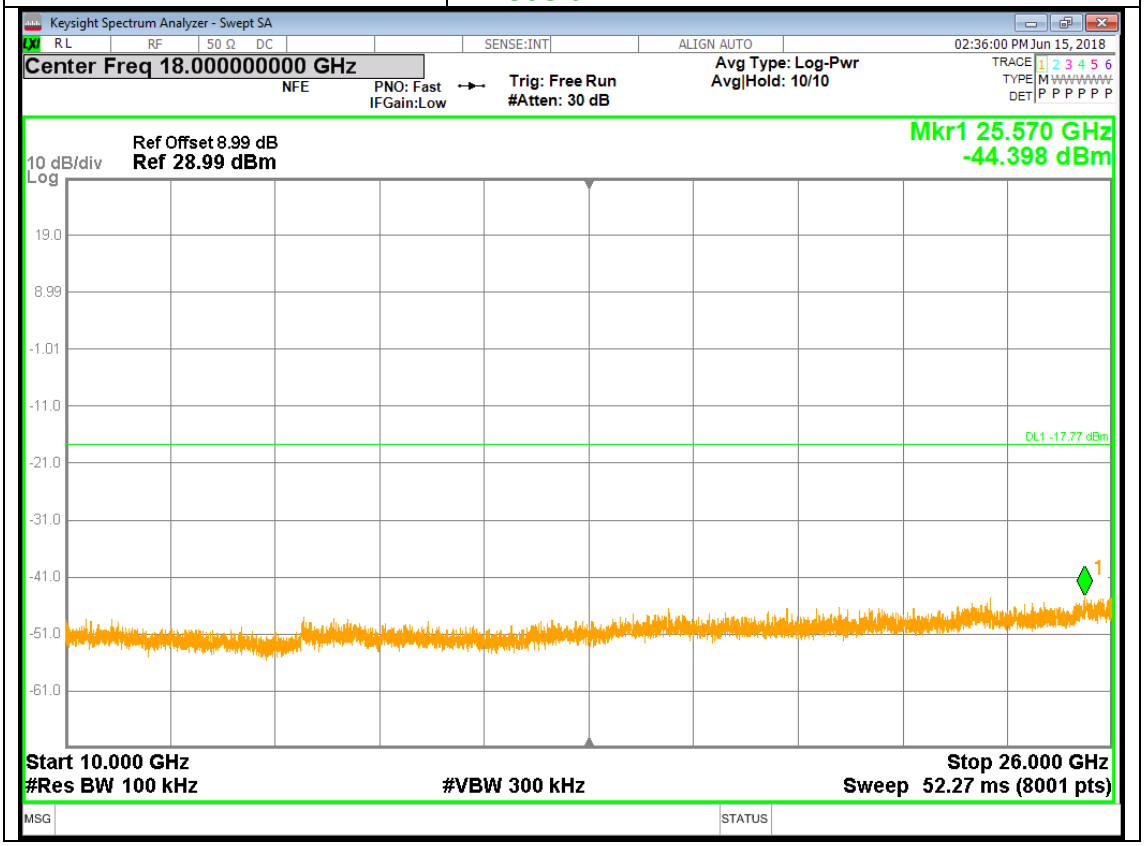
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2469.530MHz@2.232 dBm**



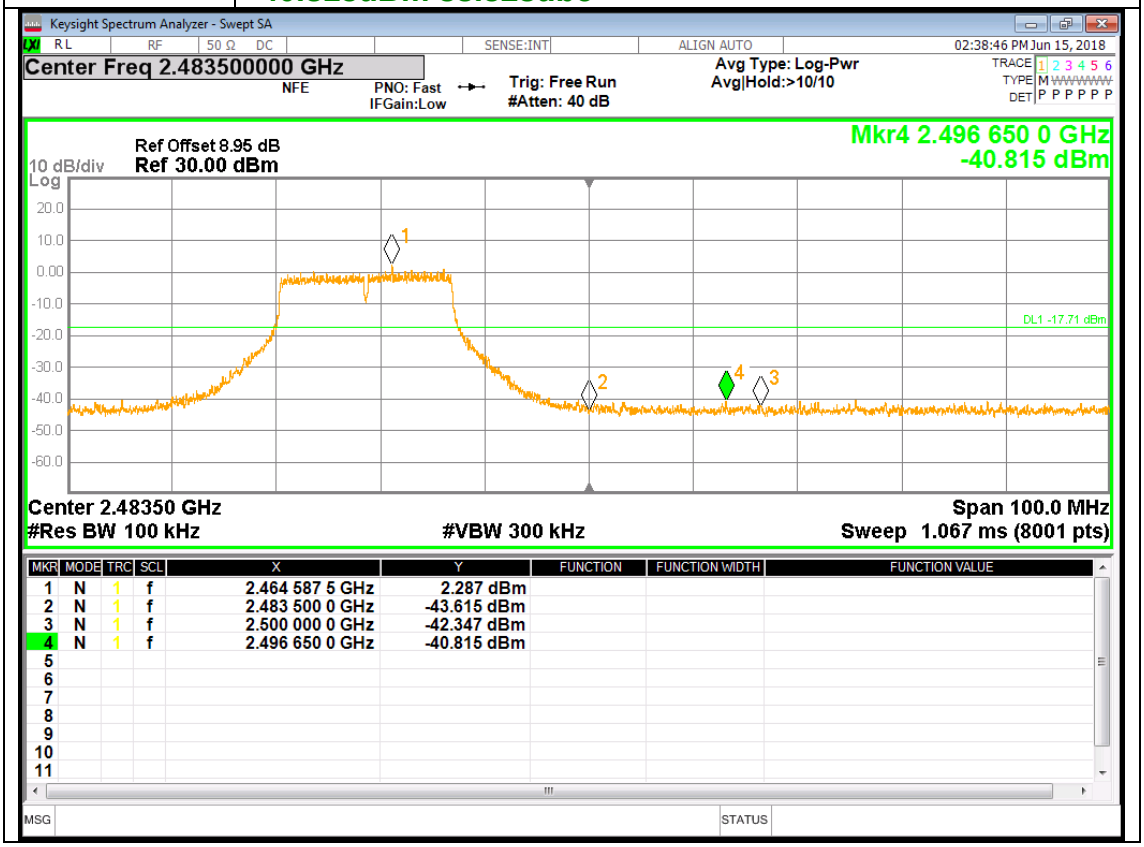
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3740.086MHz@-47.287 dBm**



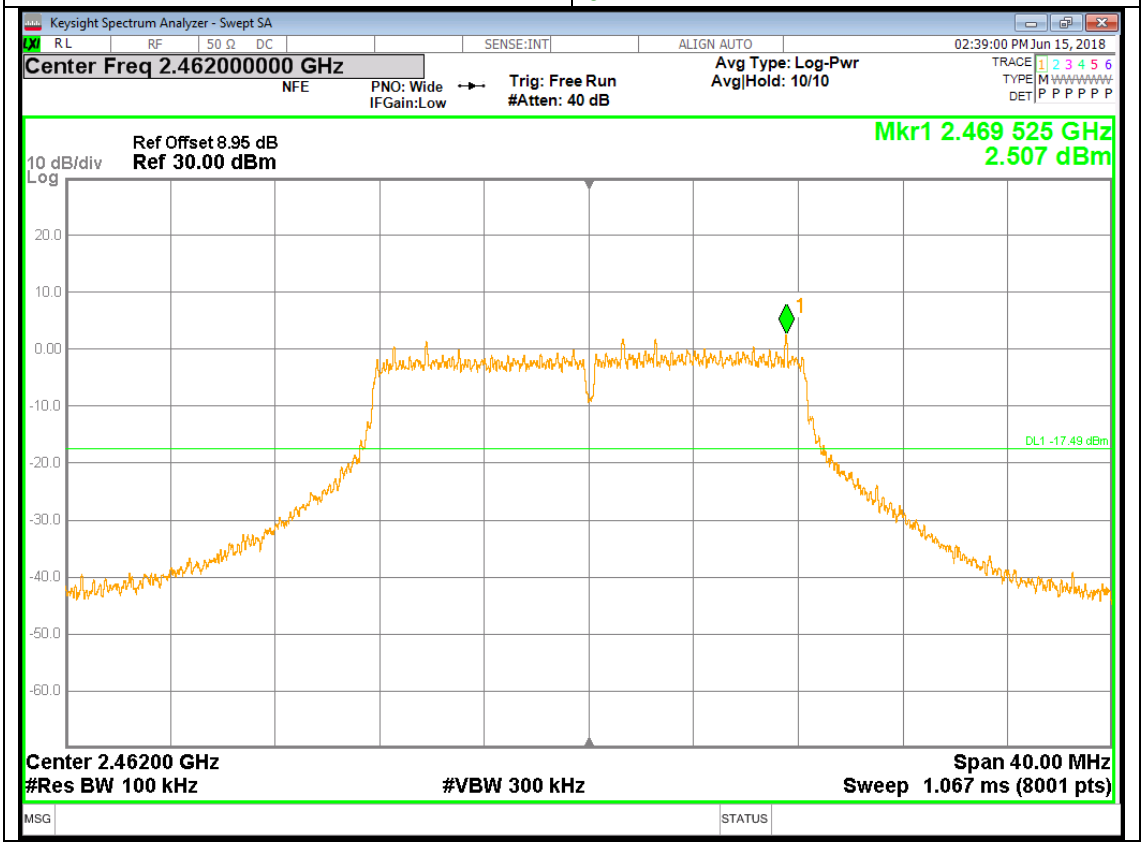
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25570.000MHz@-44.398 dBm**



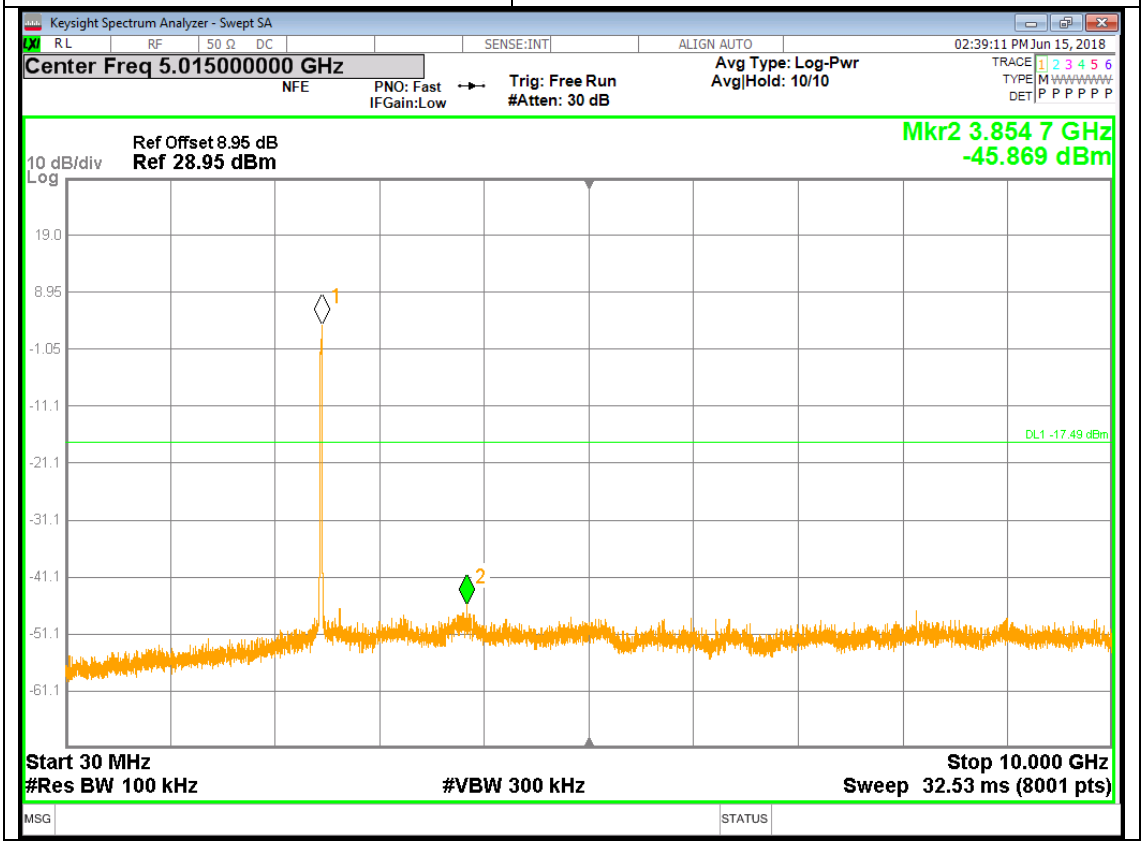
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:2.287dBm;Max:2496.65MHz@ -40.815dBm 38.528dbc**



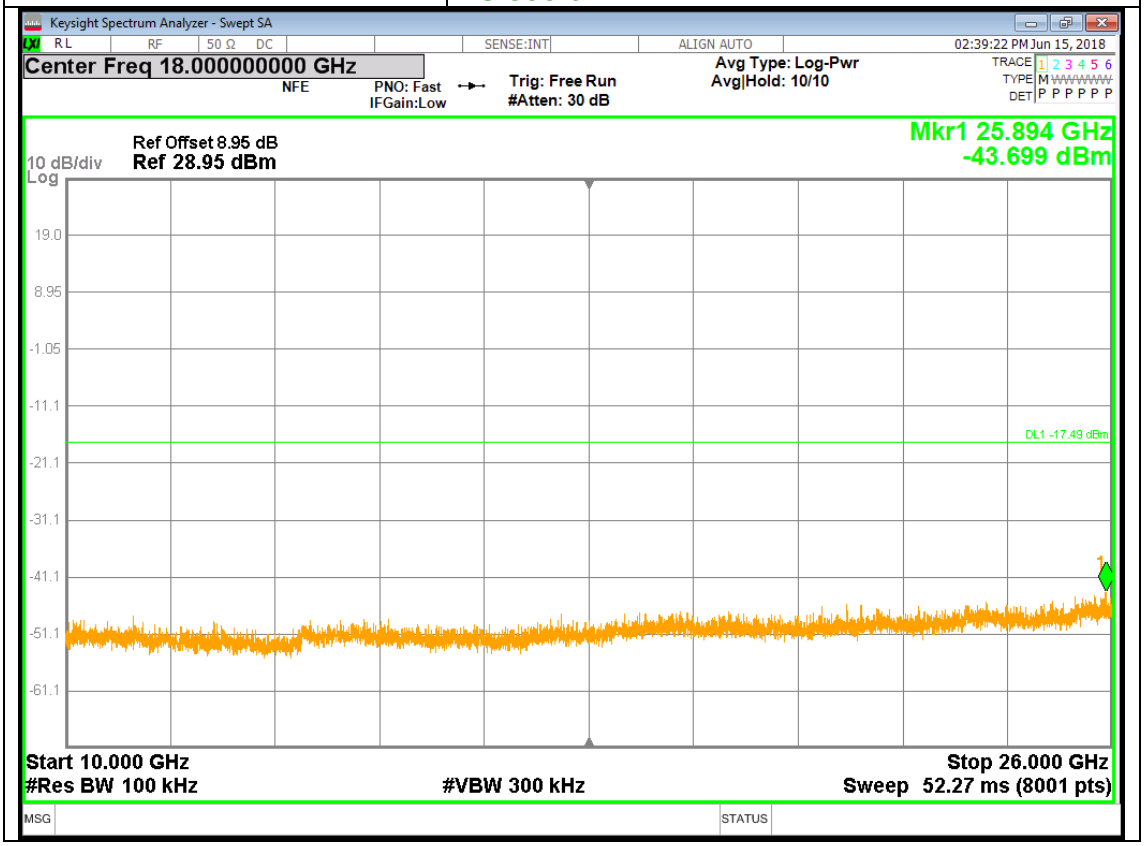
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2469.525MHz@2.507 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3854.741MHz@-45.869 dBm**



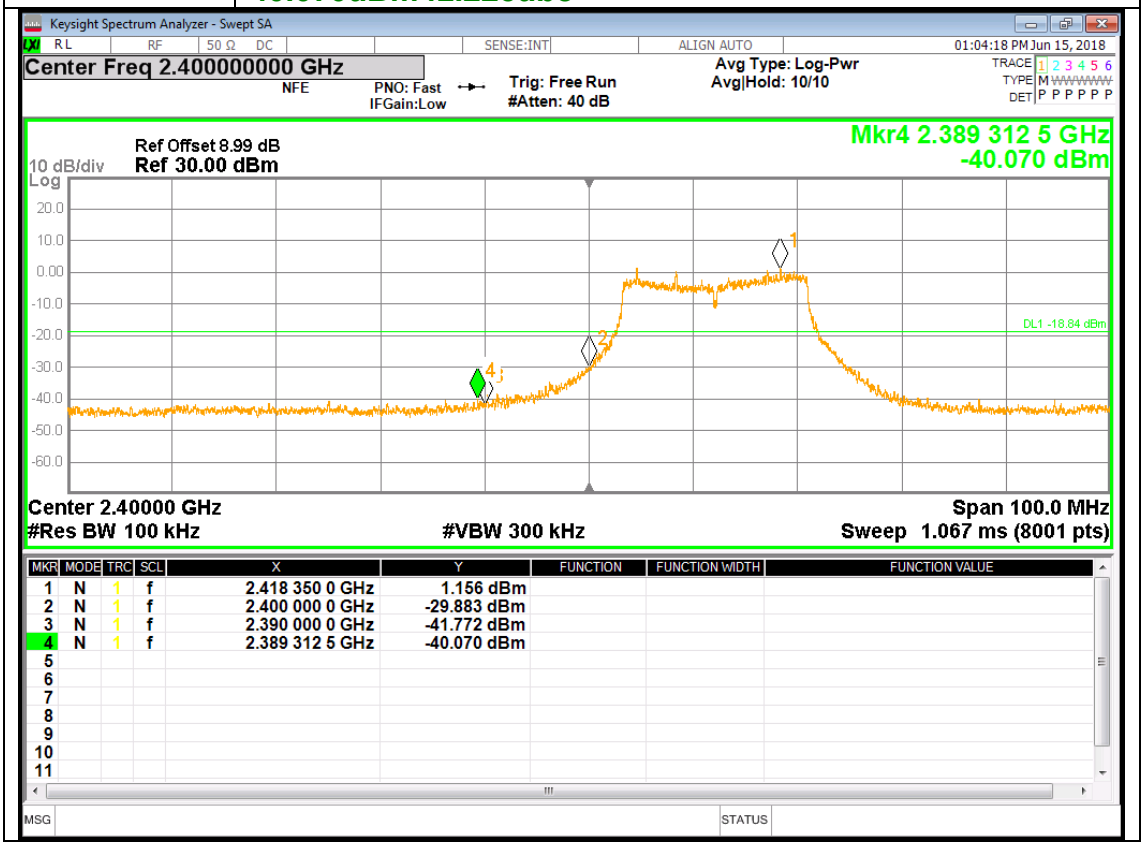
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25894.000MHz@-43.699 dBm**



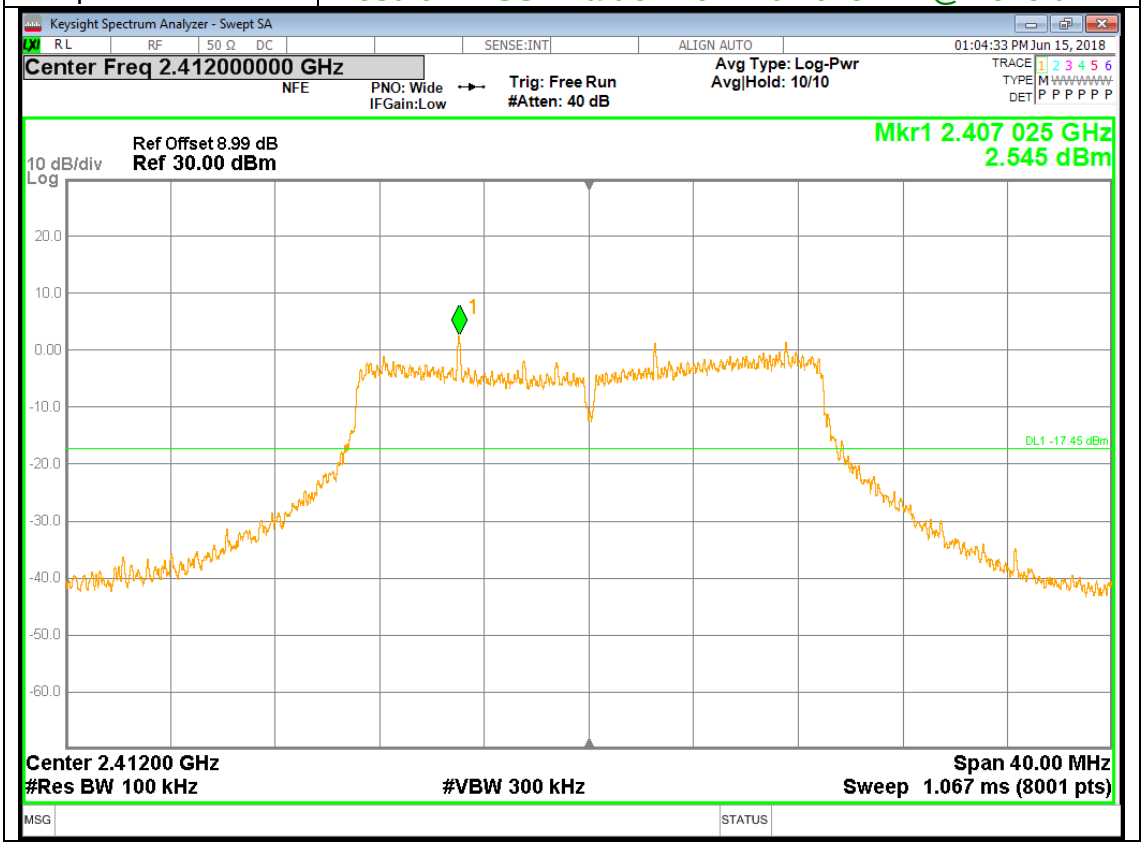
7.5.6. 802.11n20 MIMO MODE

Low Channel

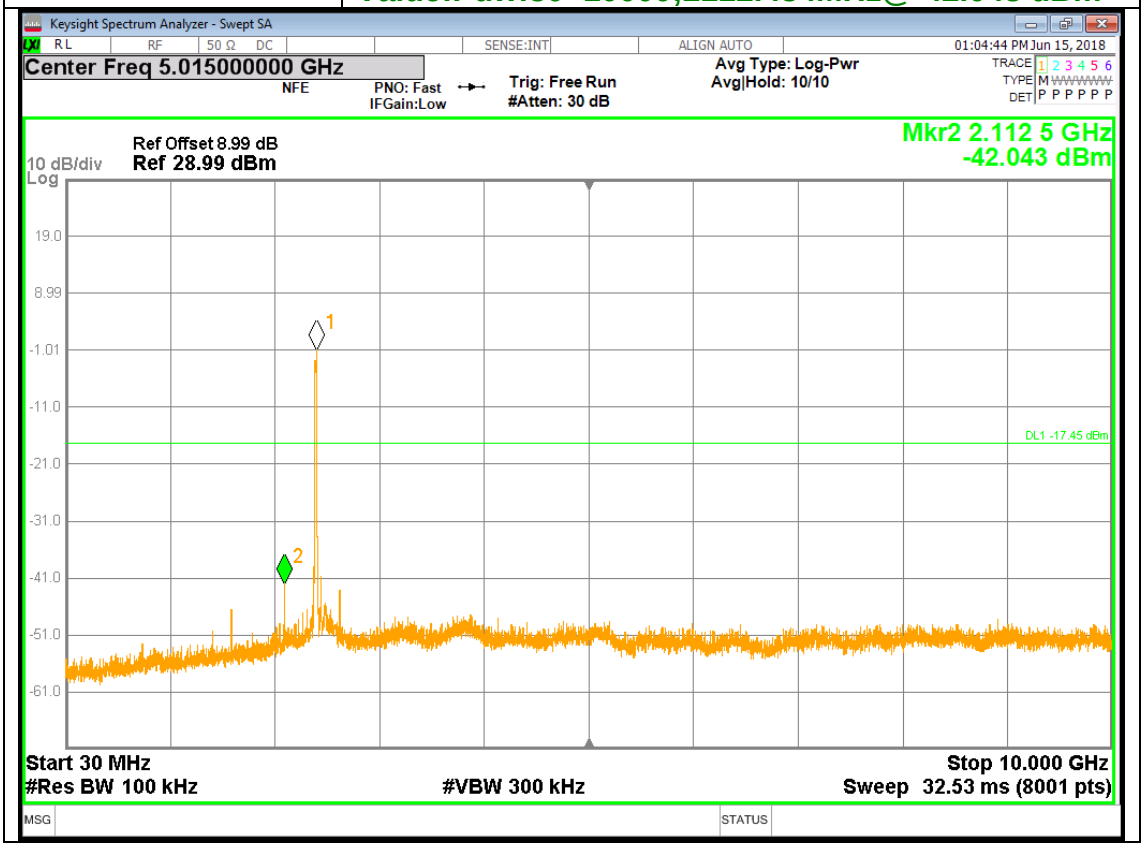
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.156dBm;Max:2389.313MHz@-40.070dBm41.226dbc**



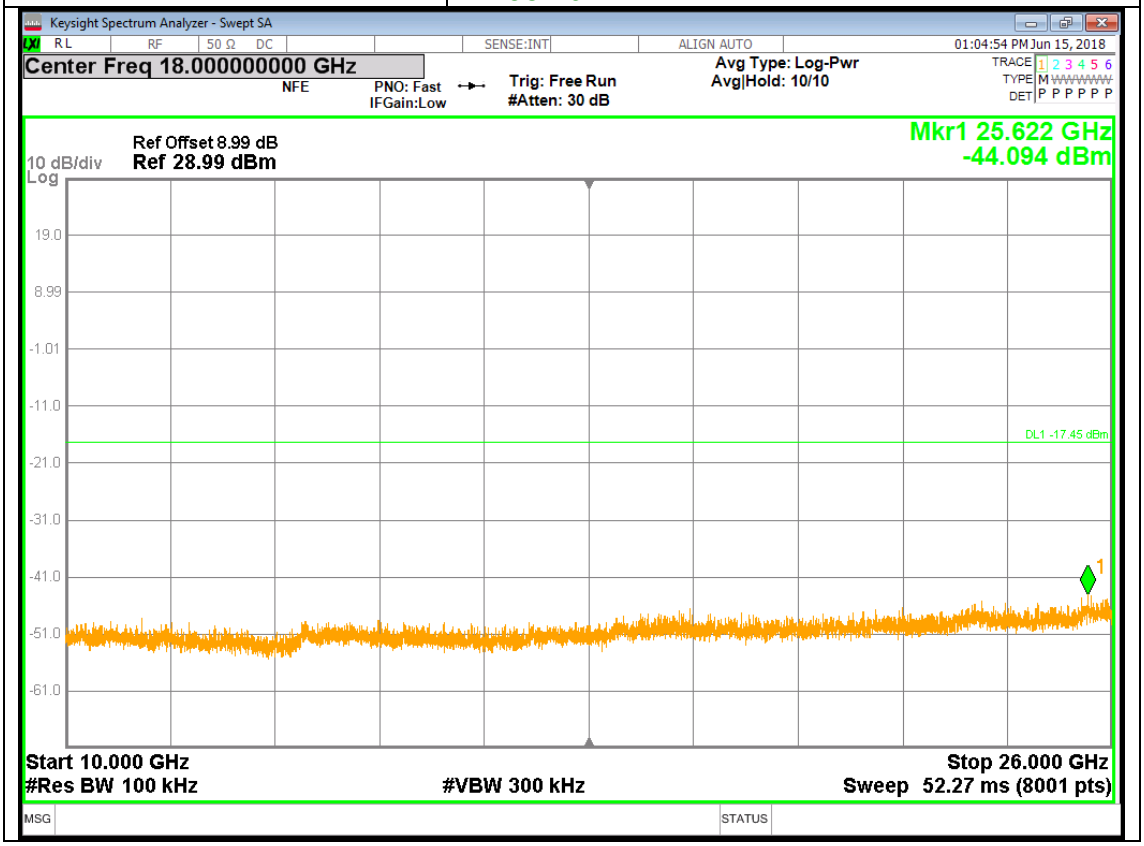
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2407.025MHz@2.545 dBm**



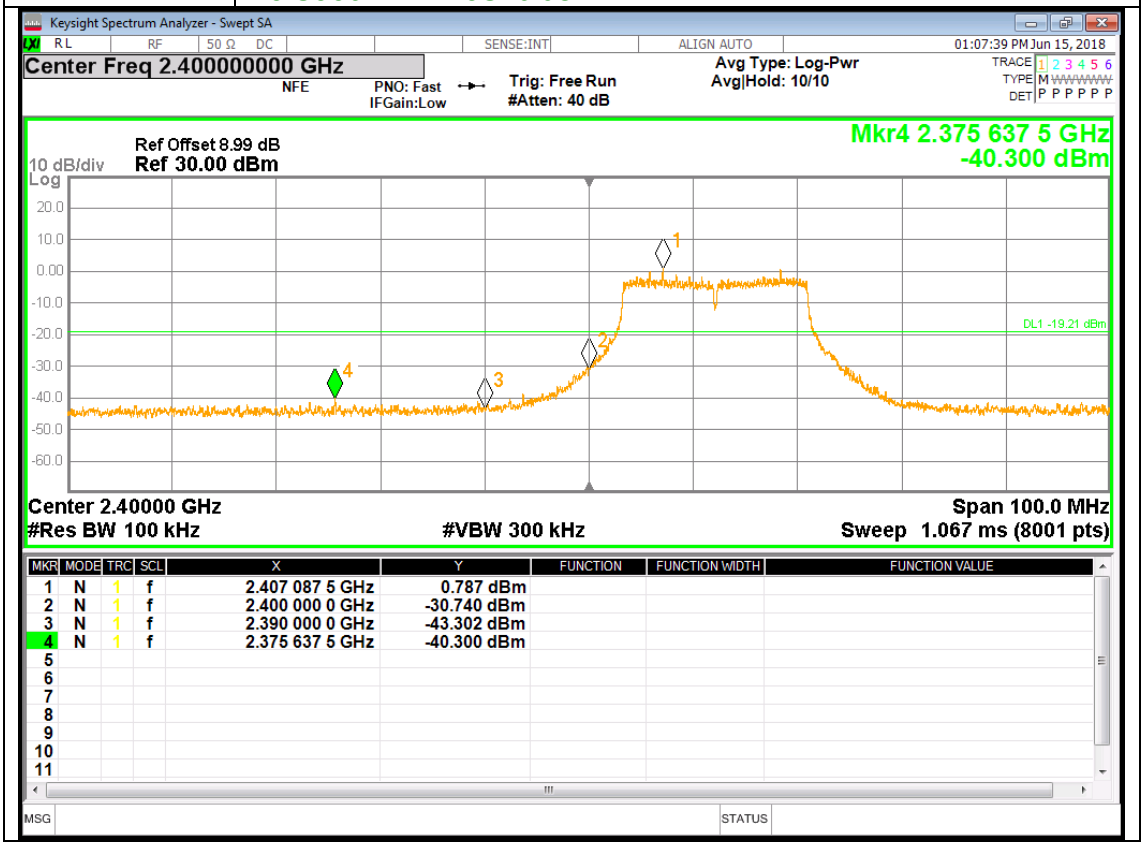
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-42.043 dBm**



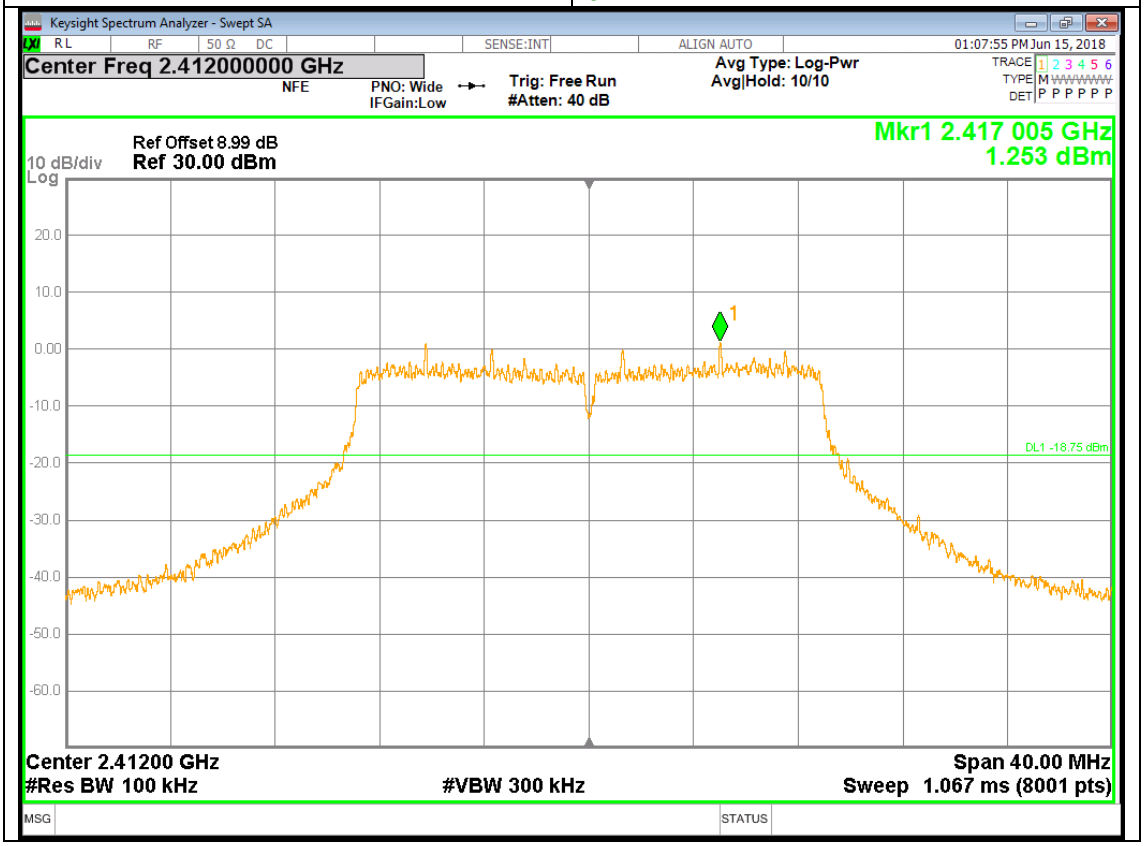
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25622.000MHz@-44.094 dBm**



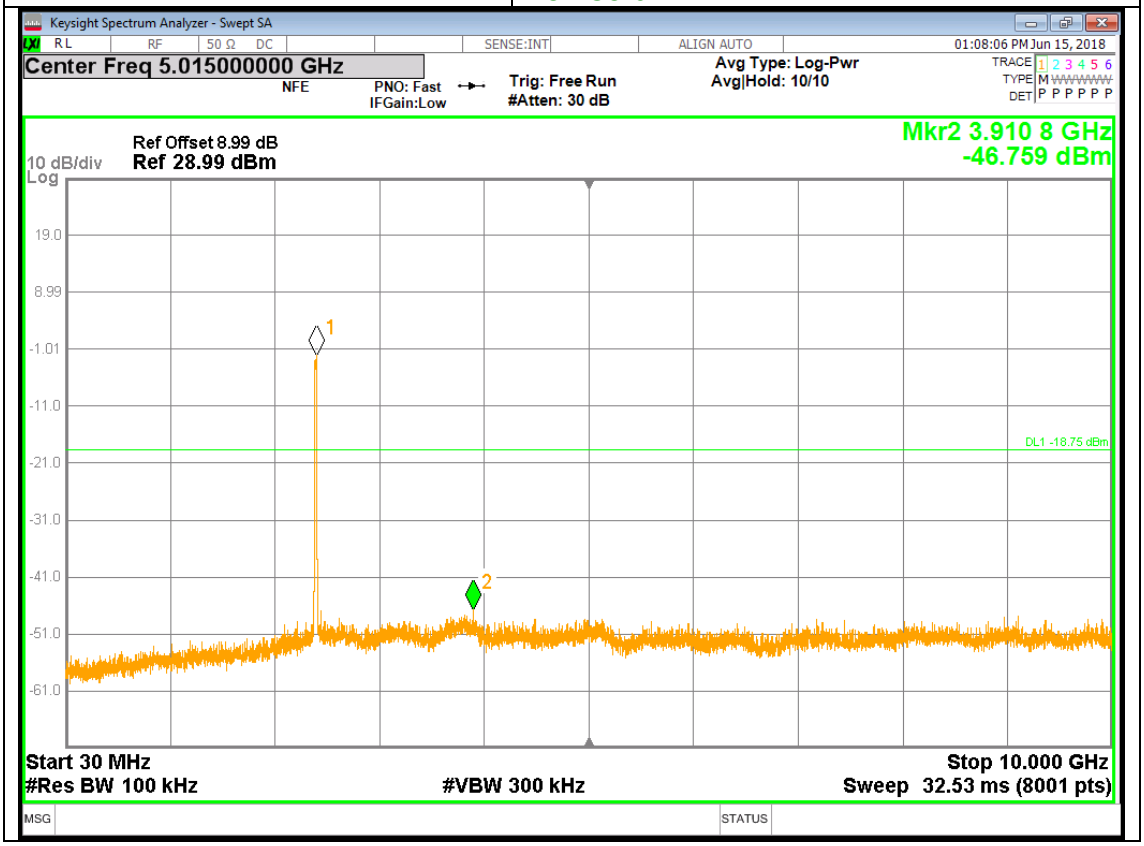
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:0.787dBm;Max:2375.638MHz@-40.300dBm41.087dbc**



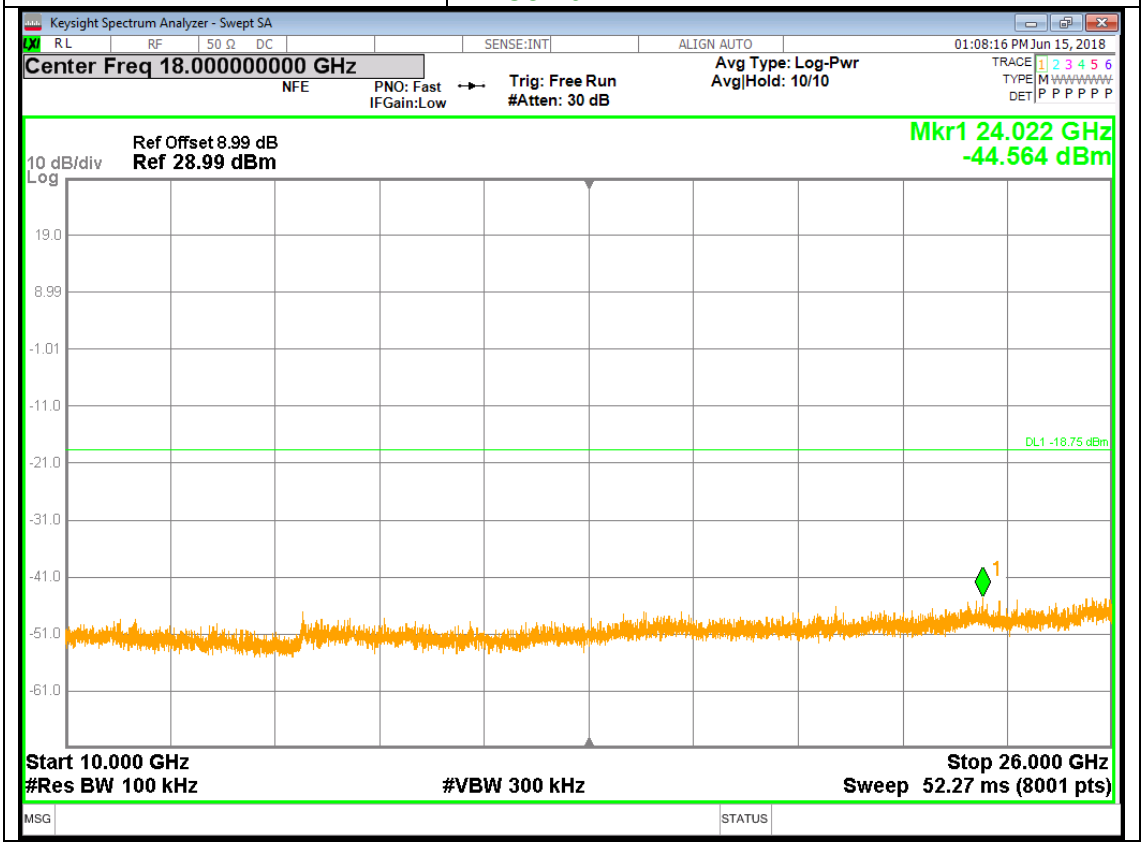
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2417.005MHz@1.253 dBm**



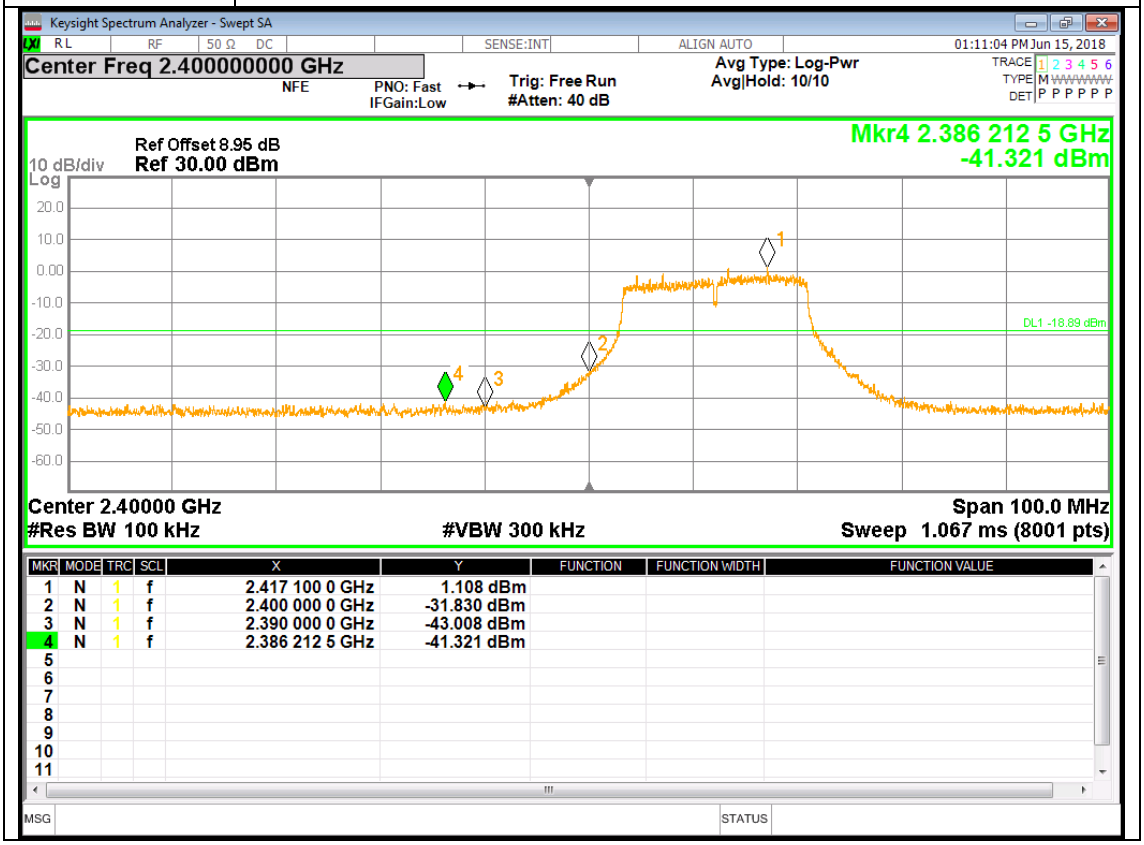
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3910.823MHz@-46.759 dBm**



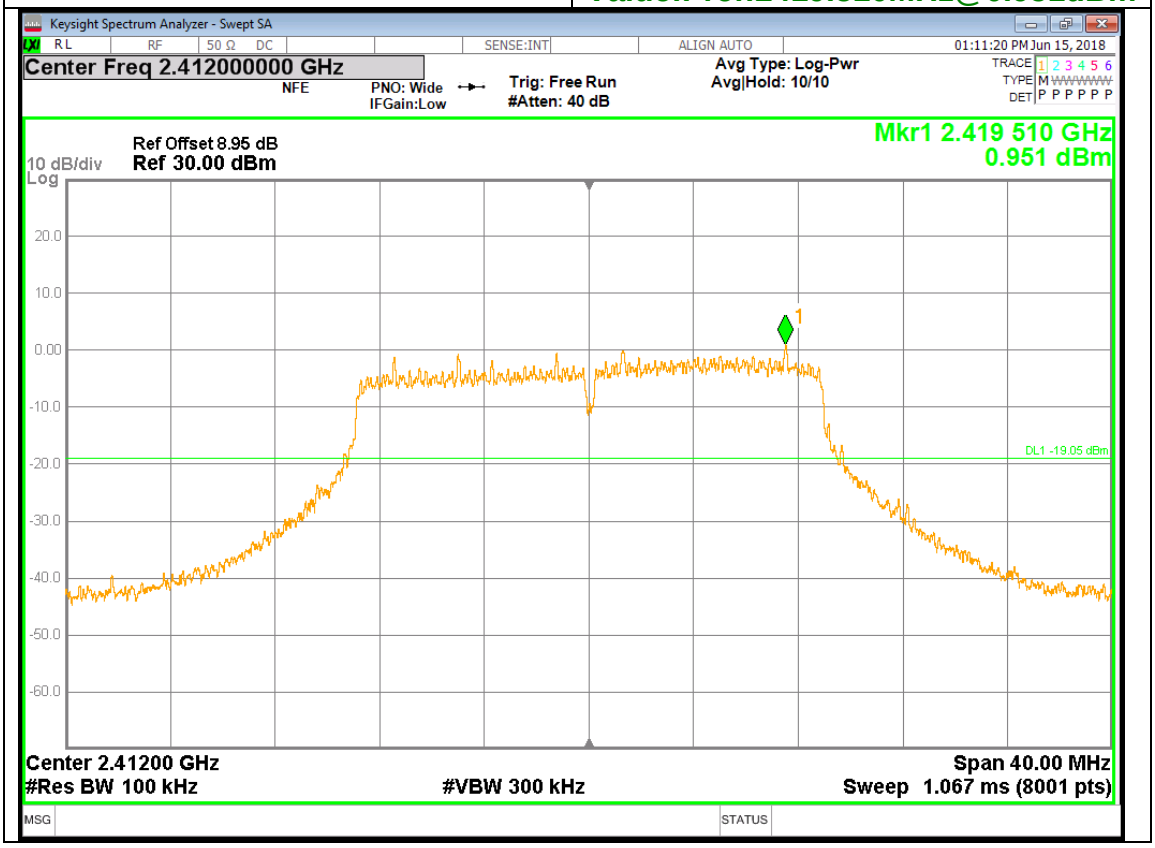
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;24022.000MHz@-44.564 dBm**



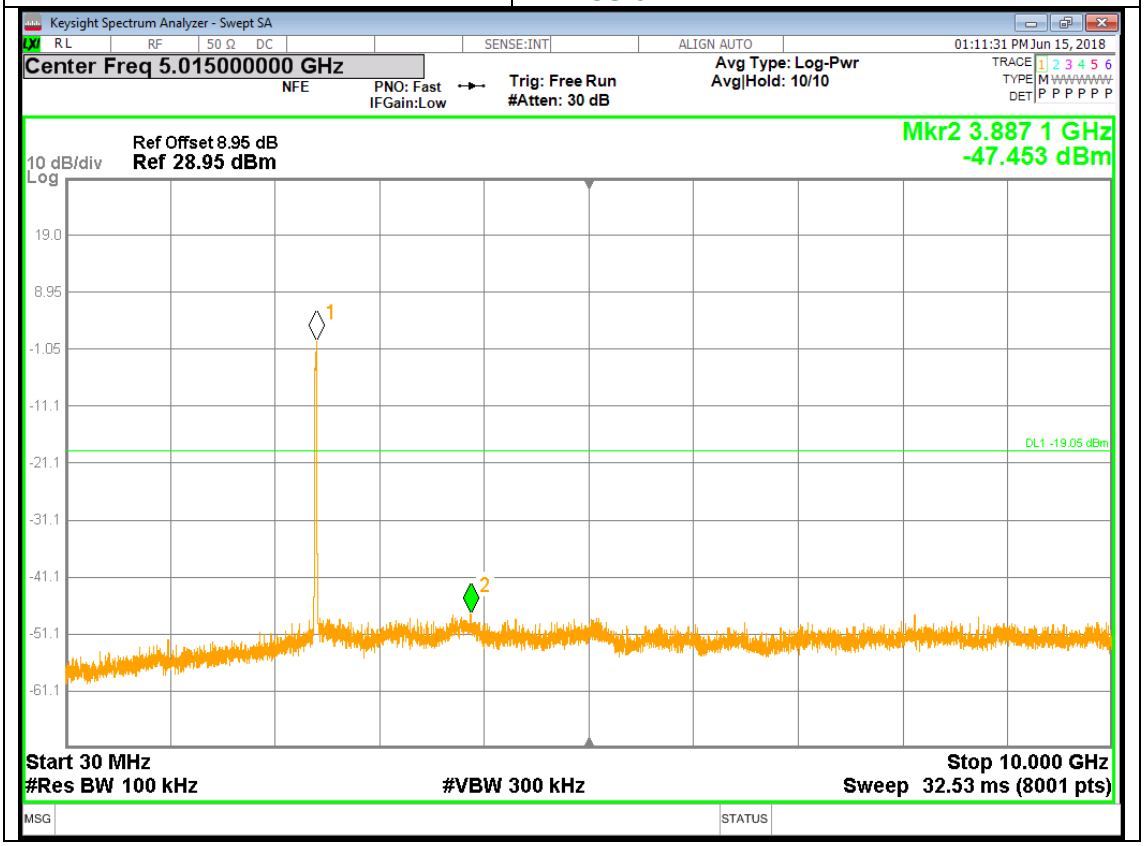
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.108dBm;Max:2386.213MHz@-41.321dBm42.429dbc**



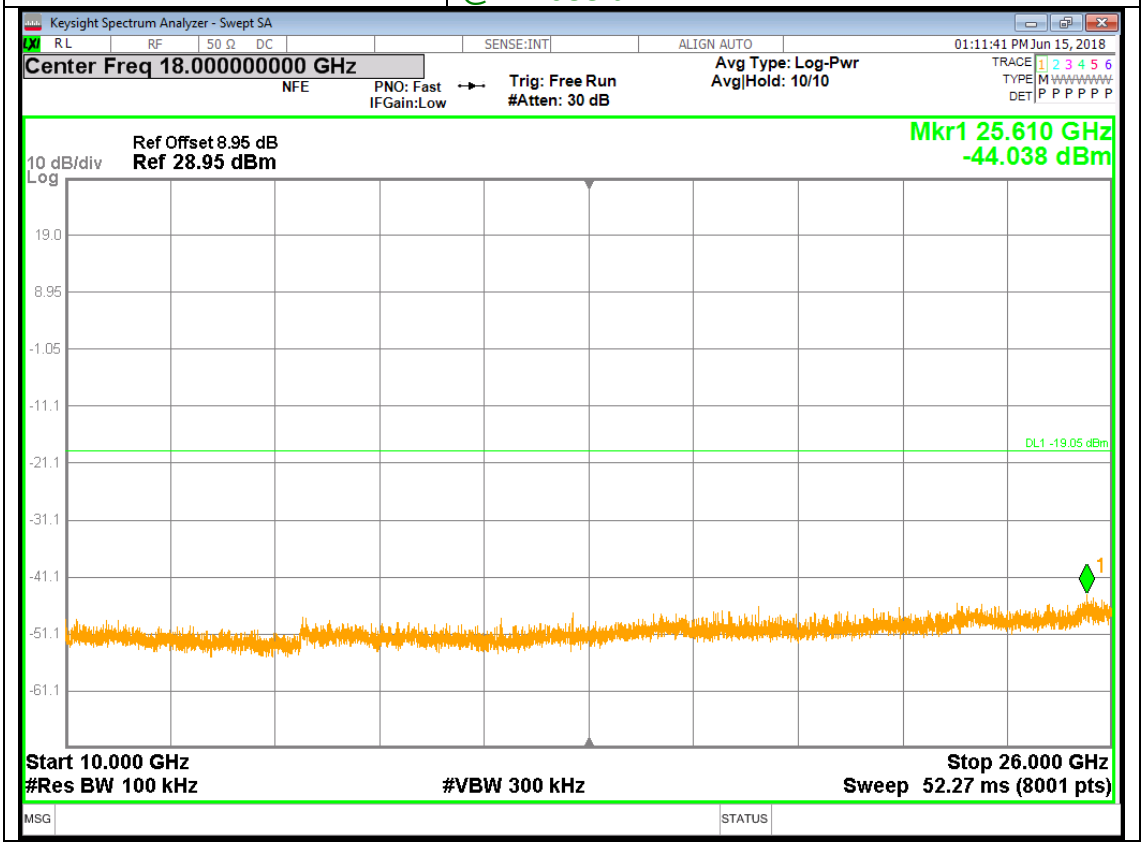
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2419.510MHz@0.951dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3887.144MHz@-47.453 dBm**

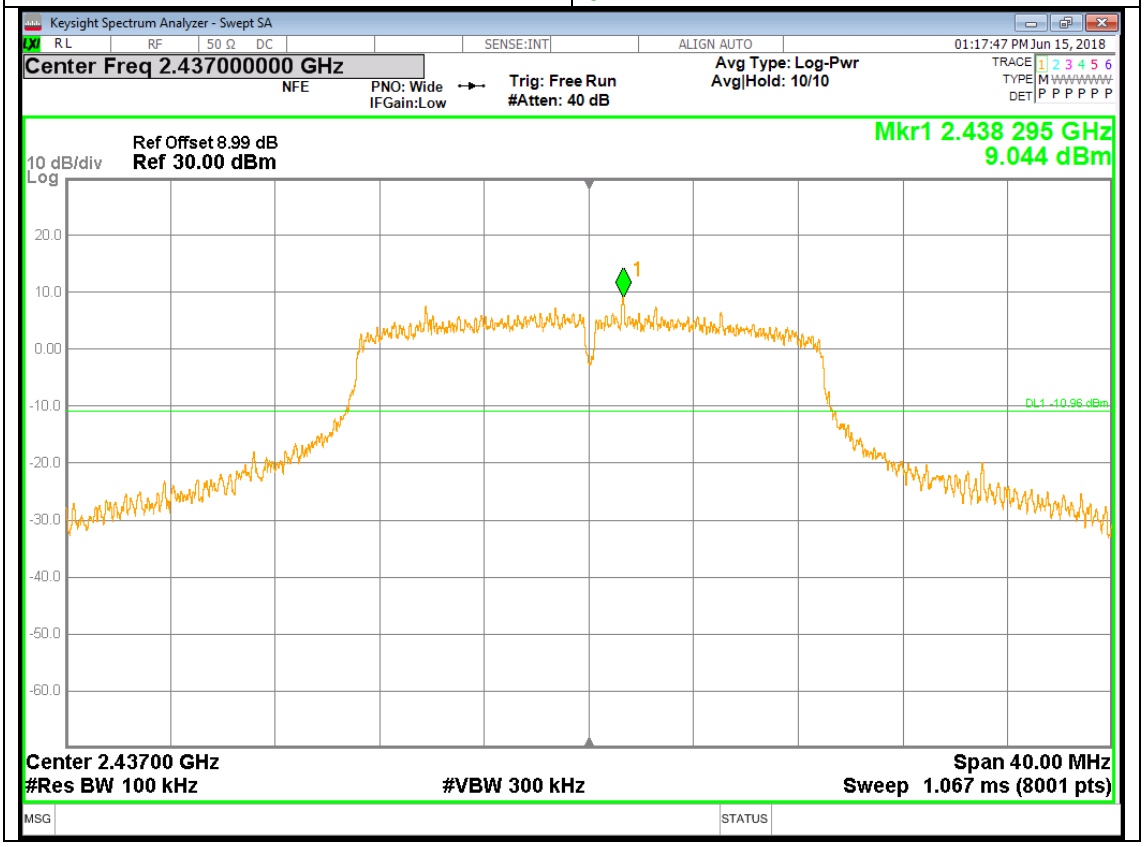


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25610.000MHz @-44.038 dBm**

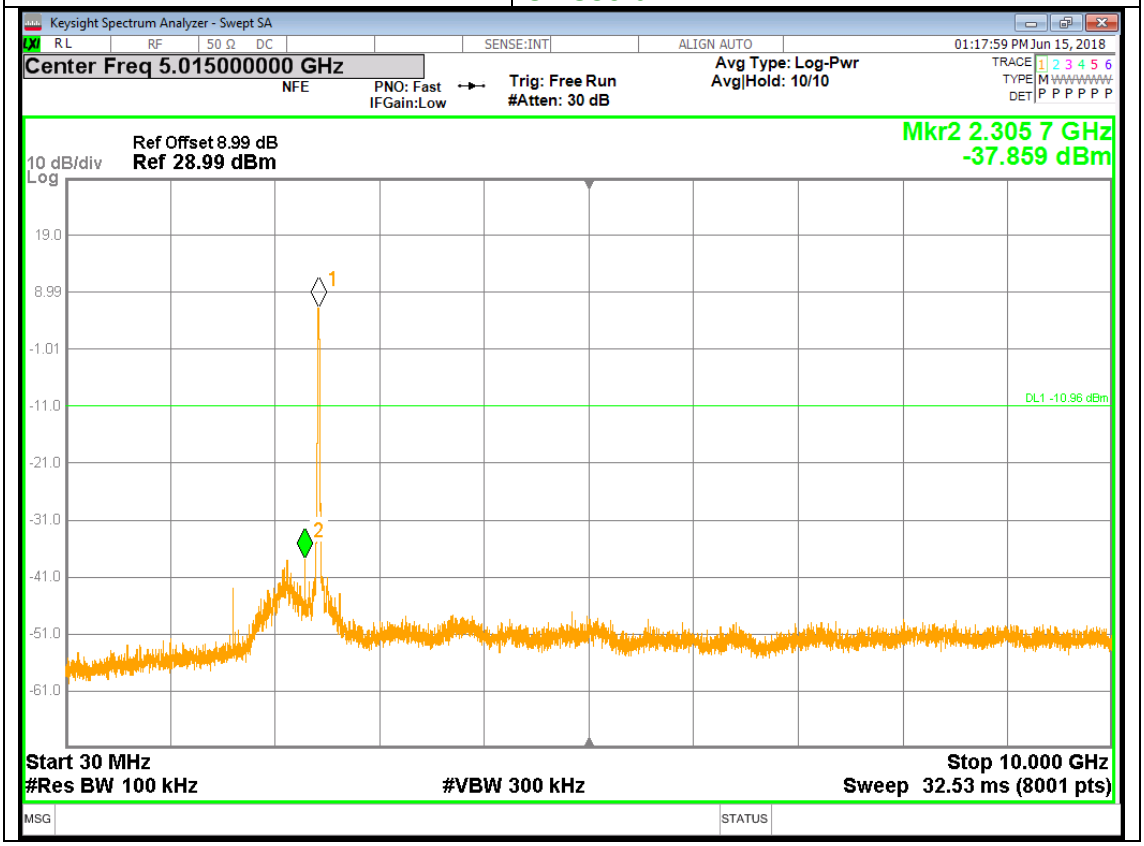


Middle Channel

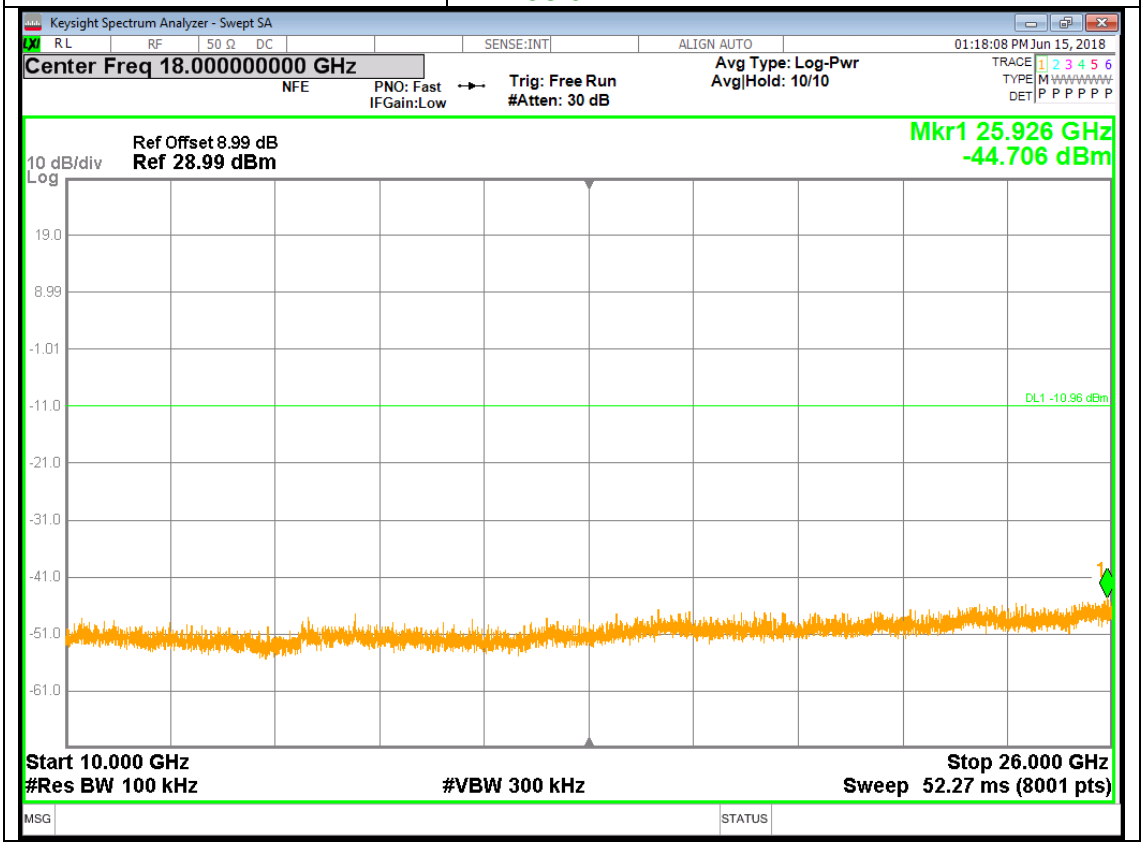
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2438.295MHz@9.044 dBm**



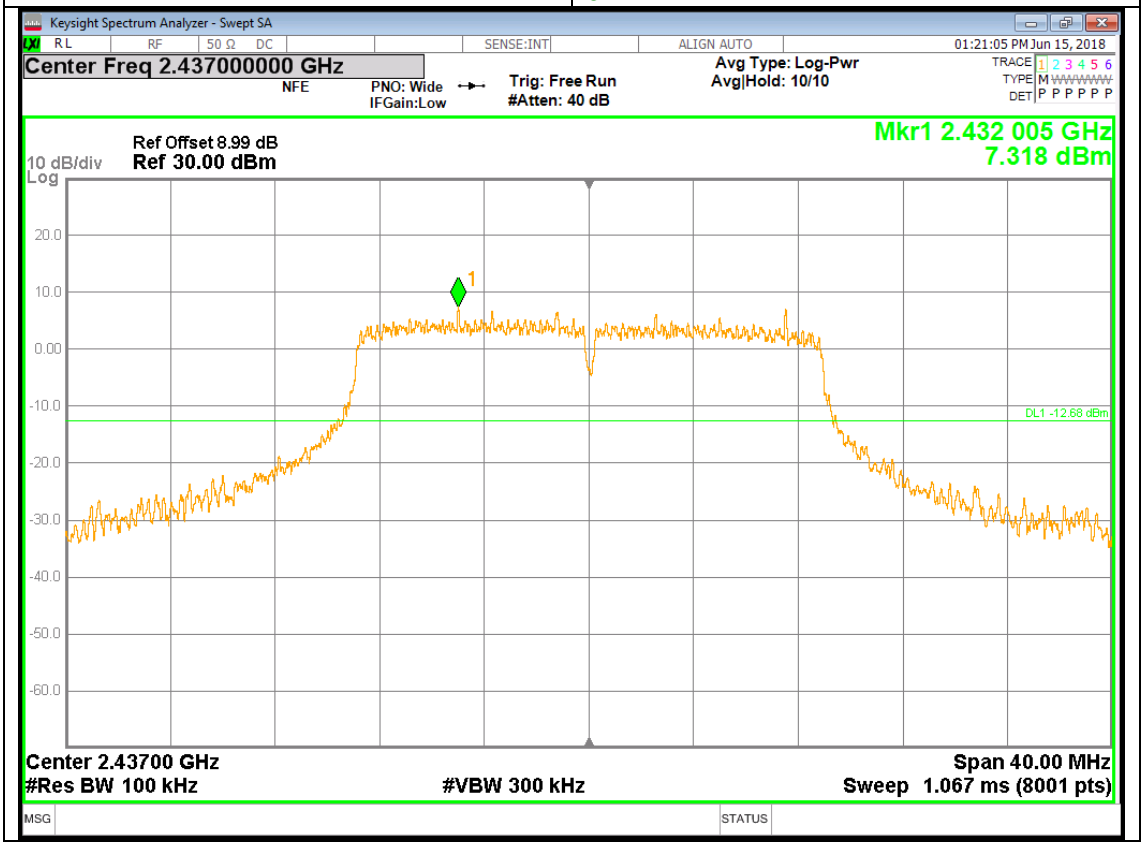
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2305.653MHz@-37.859 dBm**



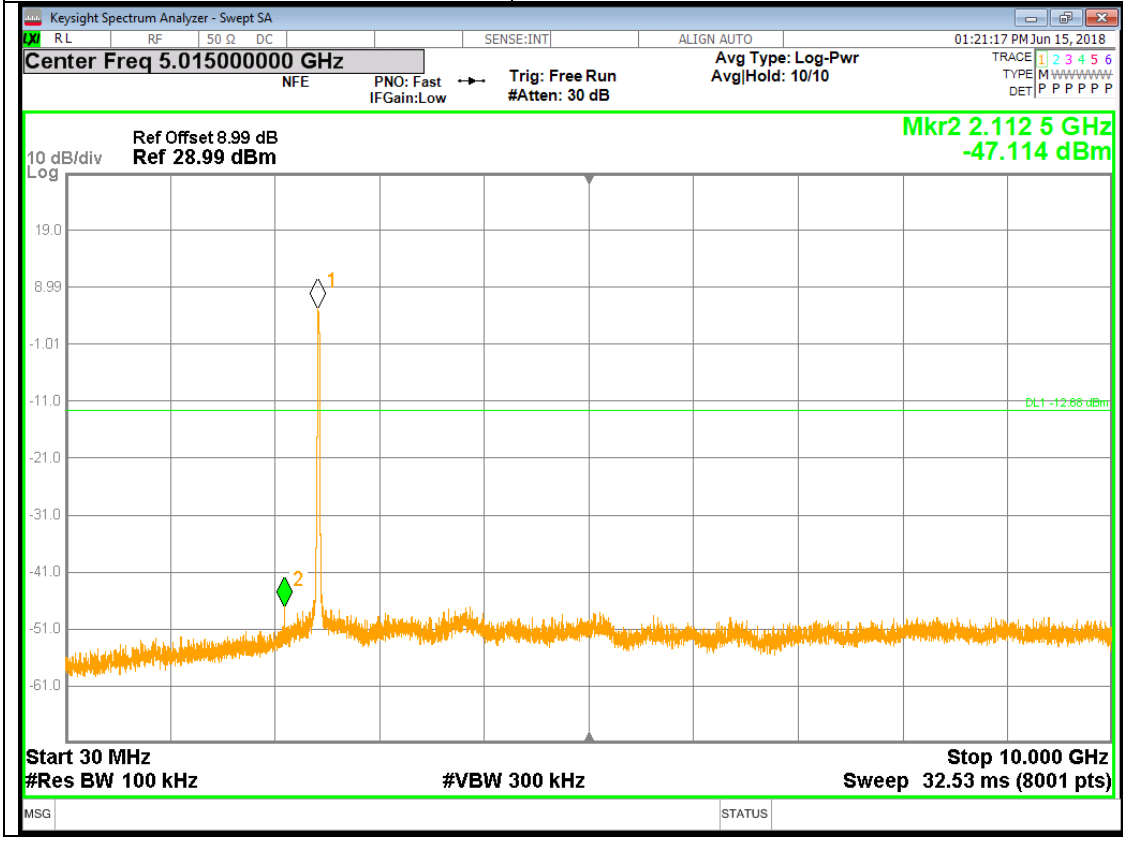
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25926.000MHz@-44.706 dBm**



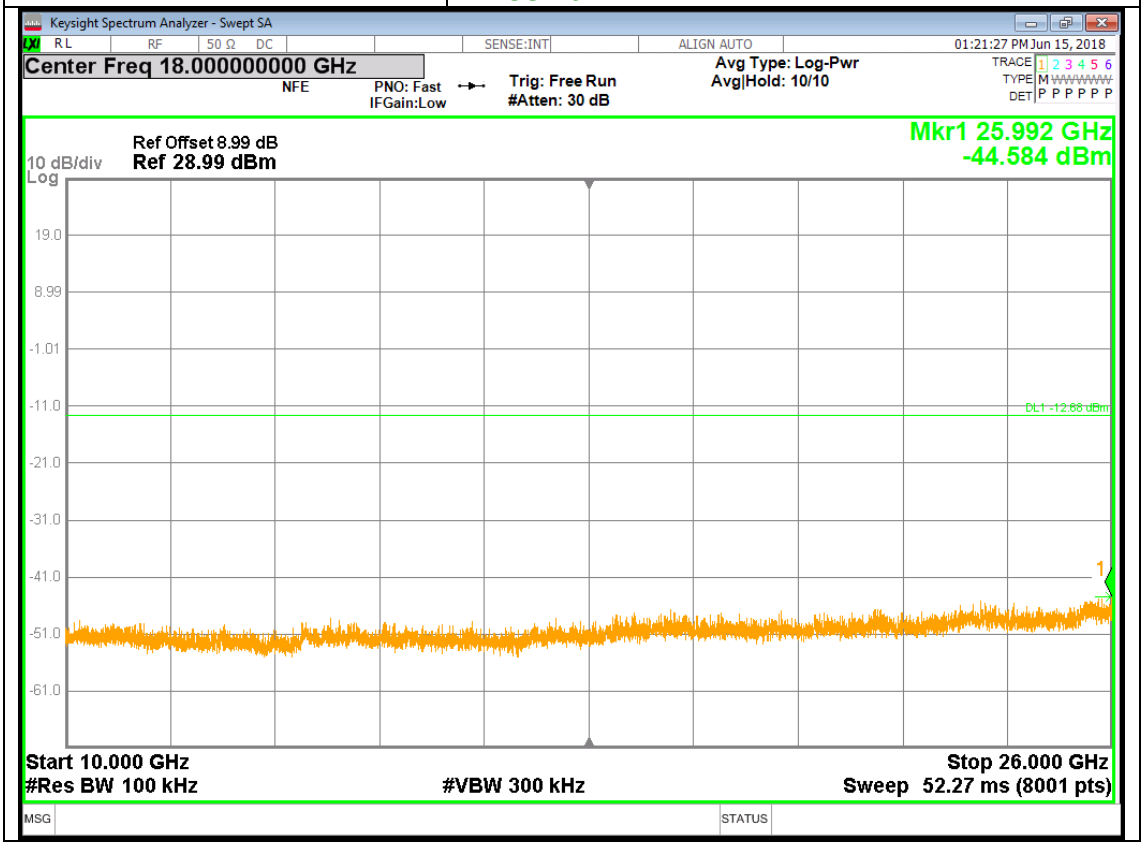
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2432.005MHz@7.318 dBm**



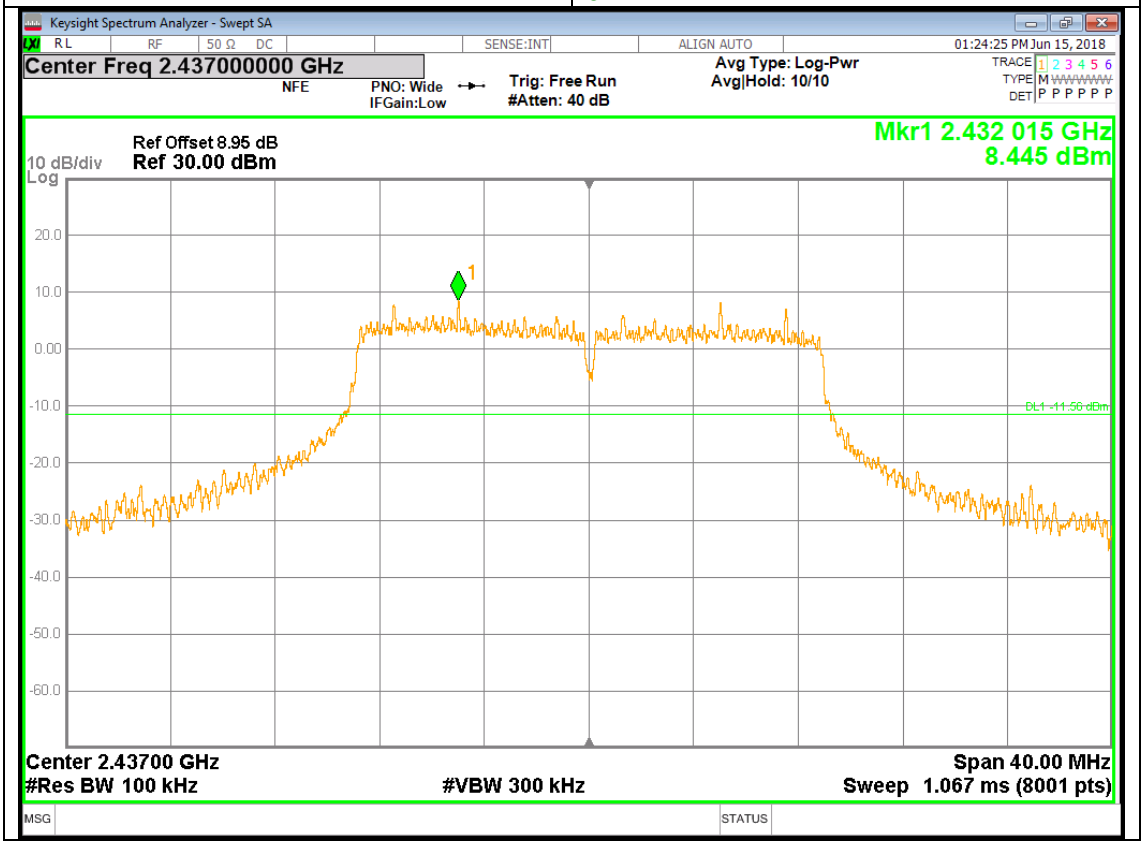
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-47.114 dBm**



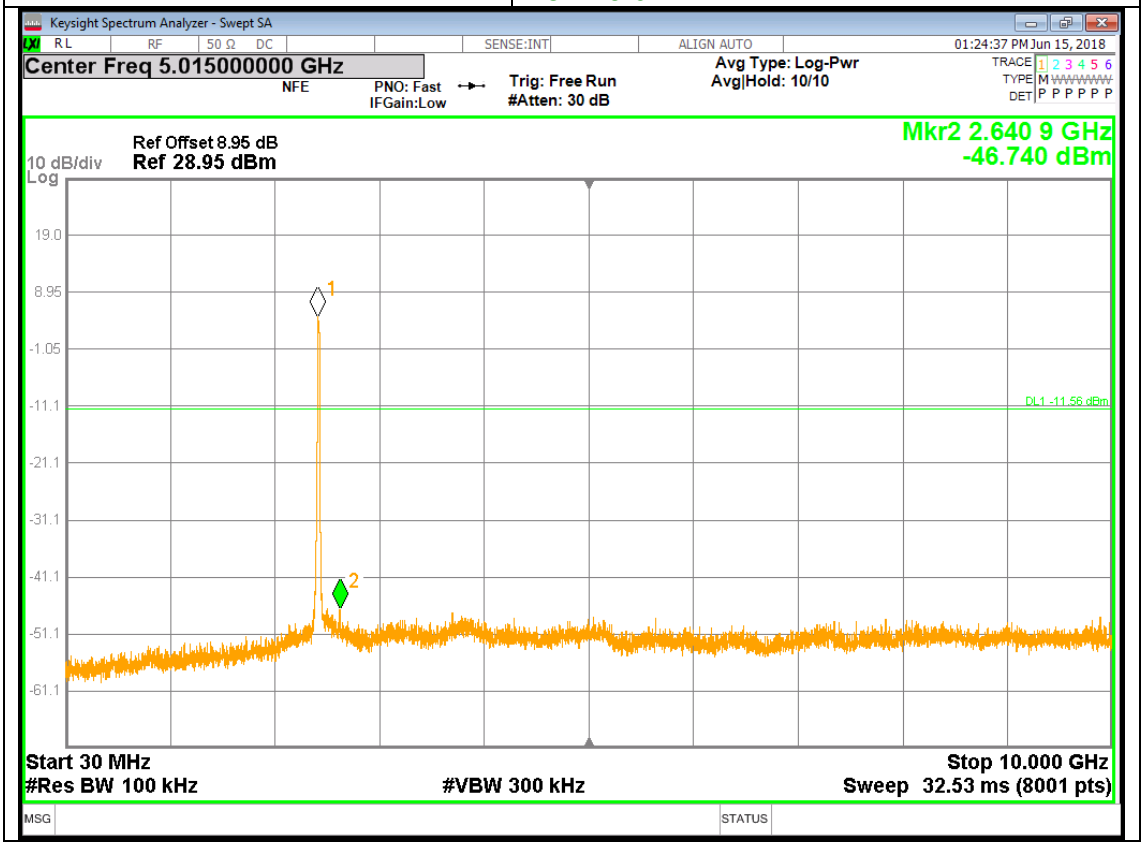
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25992.000MHz@-44.584 dBm**



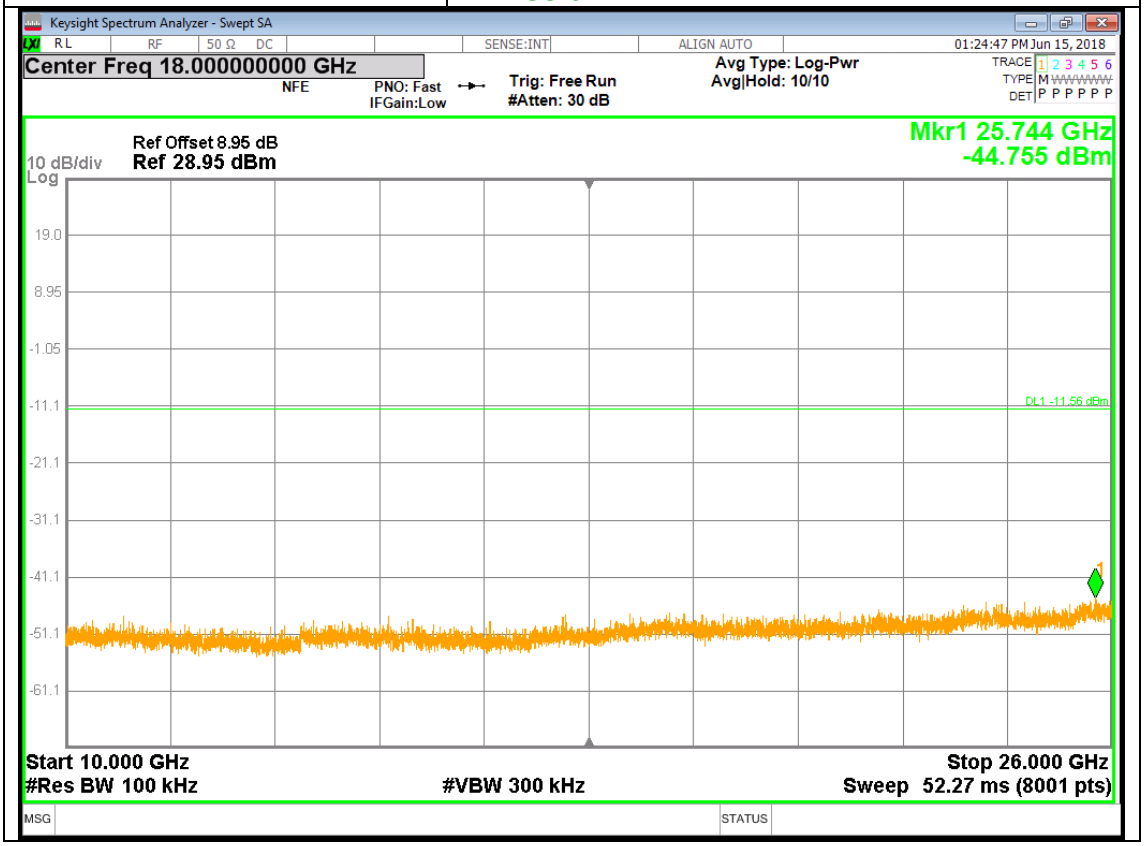
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2432.015MHz@8.445 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2640.894MHz@-46.740 dBm**

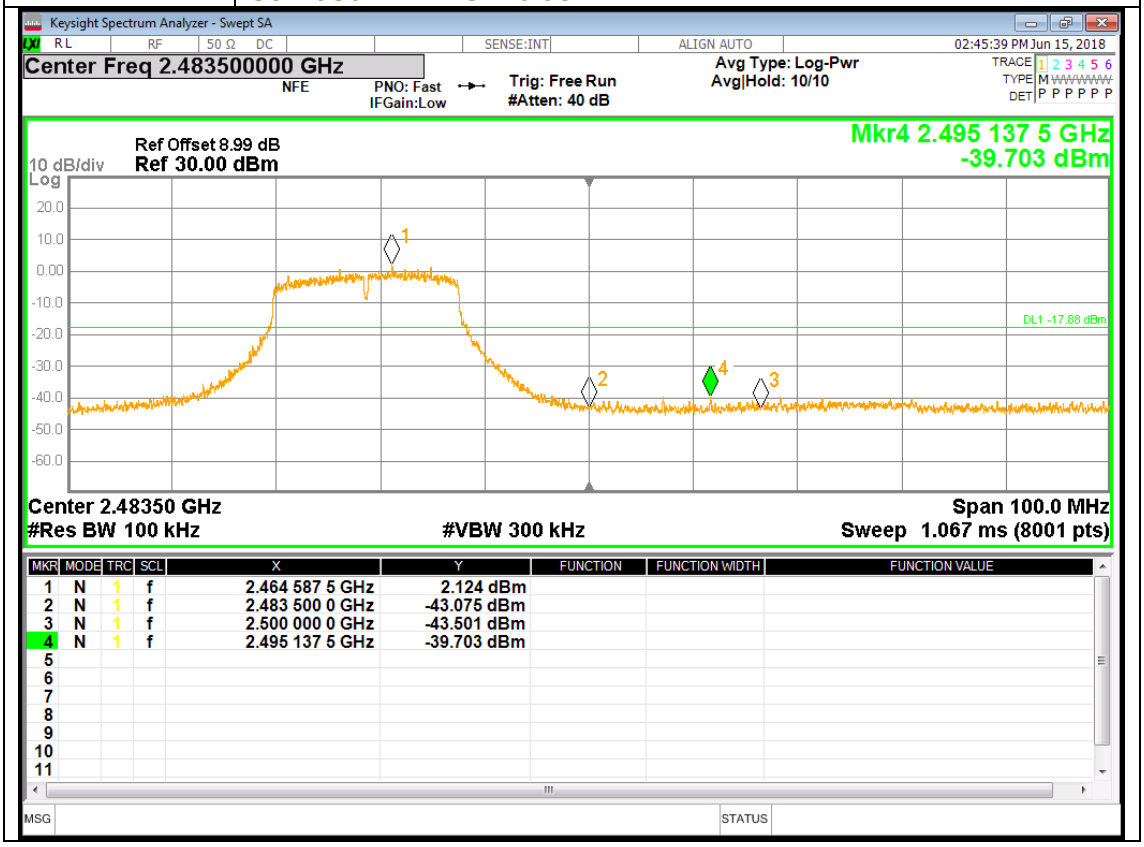


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25744.000MHz@-44.755 dBm**

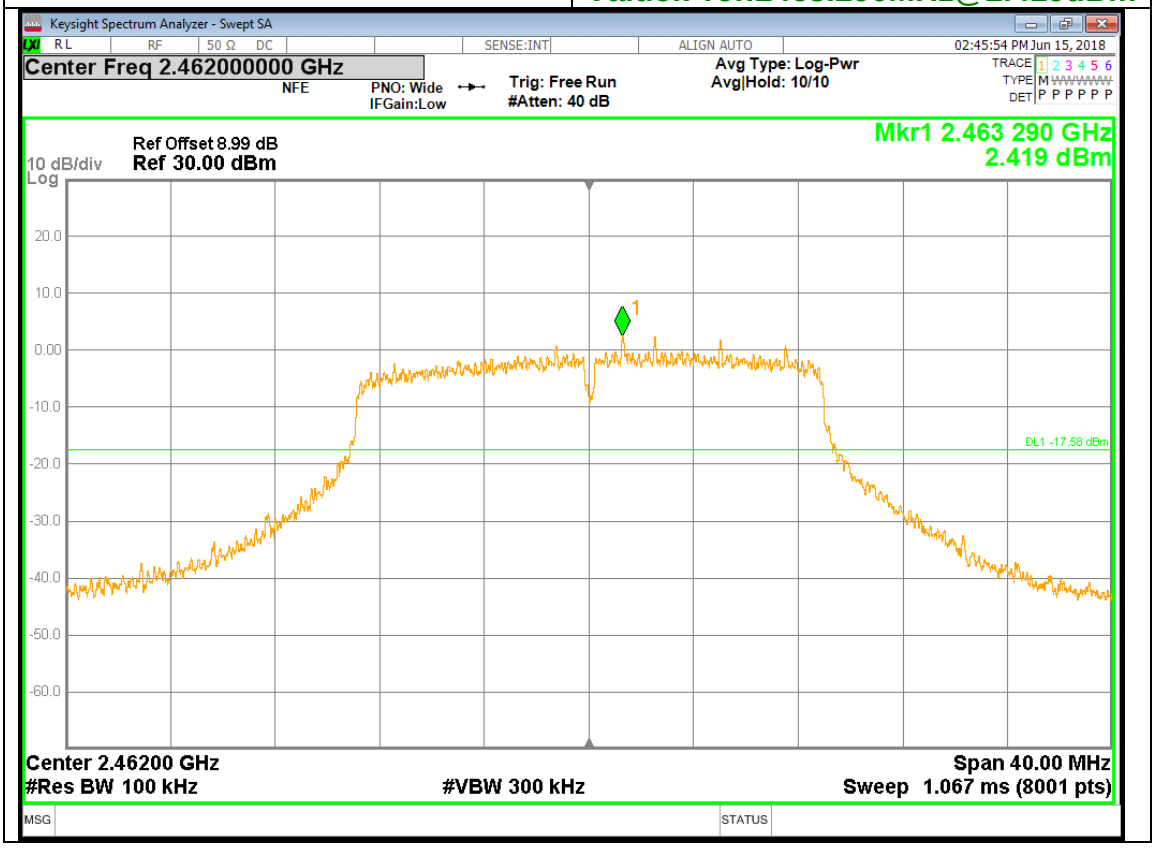


High Channel

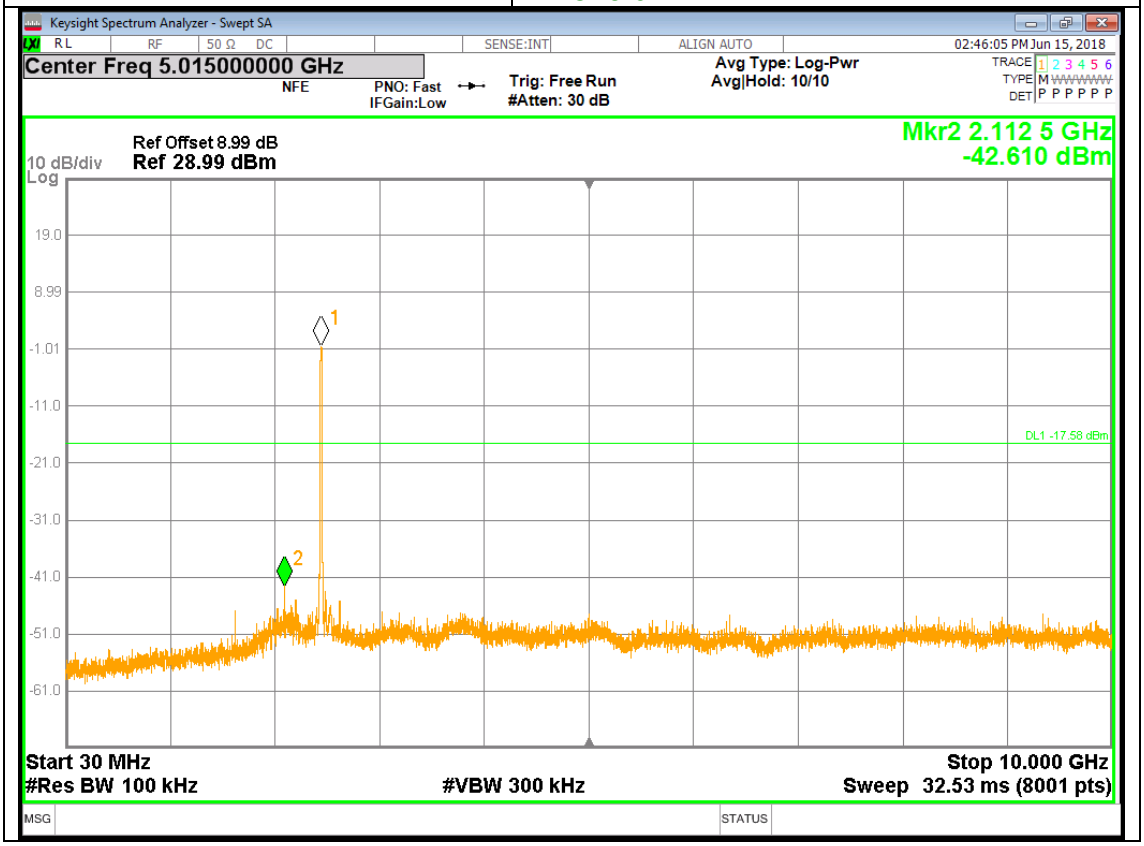
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:2.124dBm;Max:2495.138MHz@-39.703dBm41.827dbc**



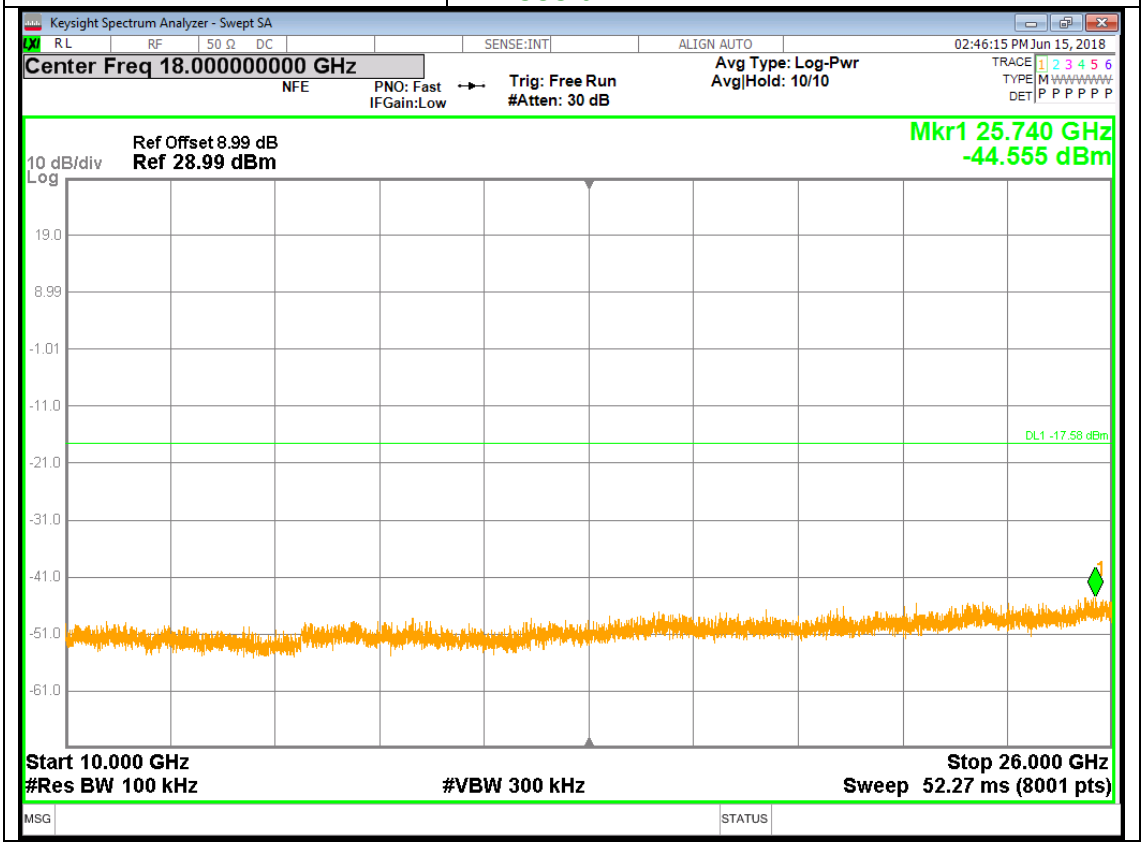
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2463.290MHz@2.419dBm**



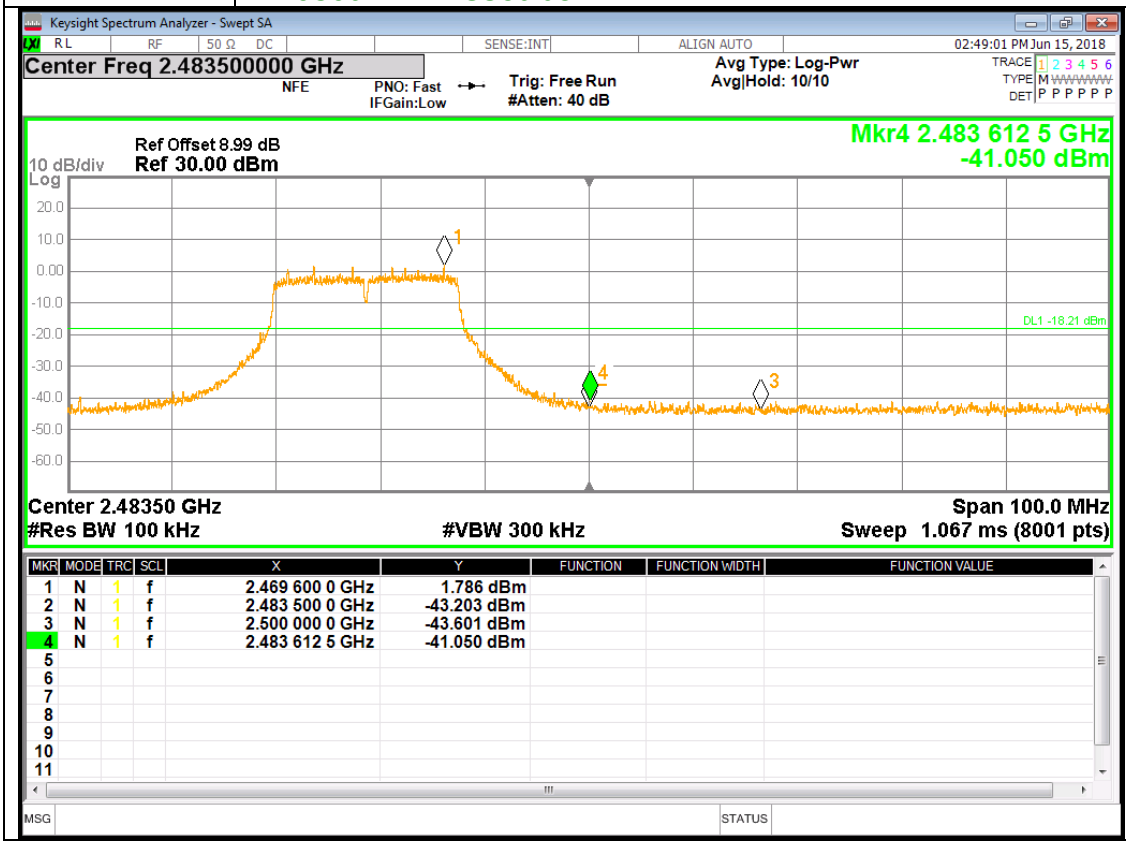
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-42.610 dBm**



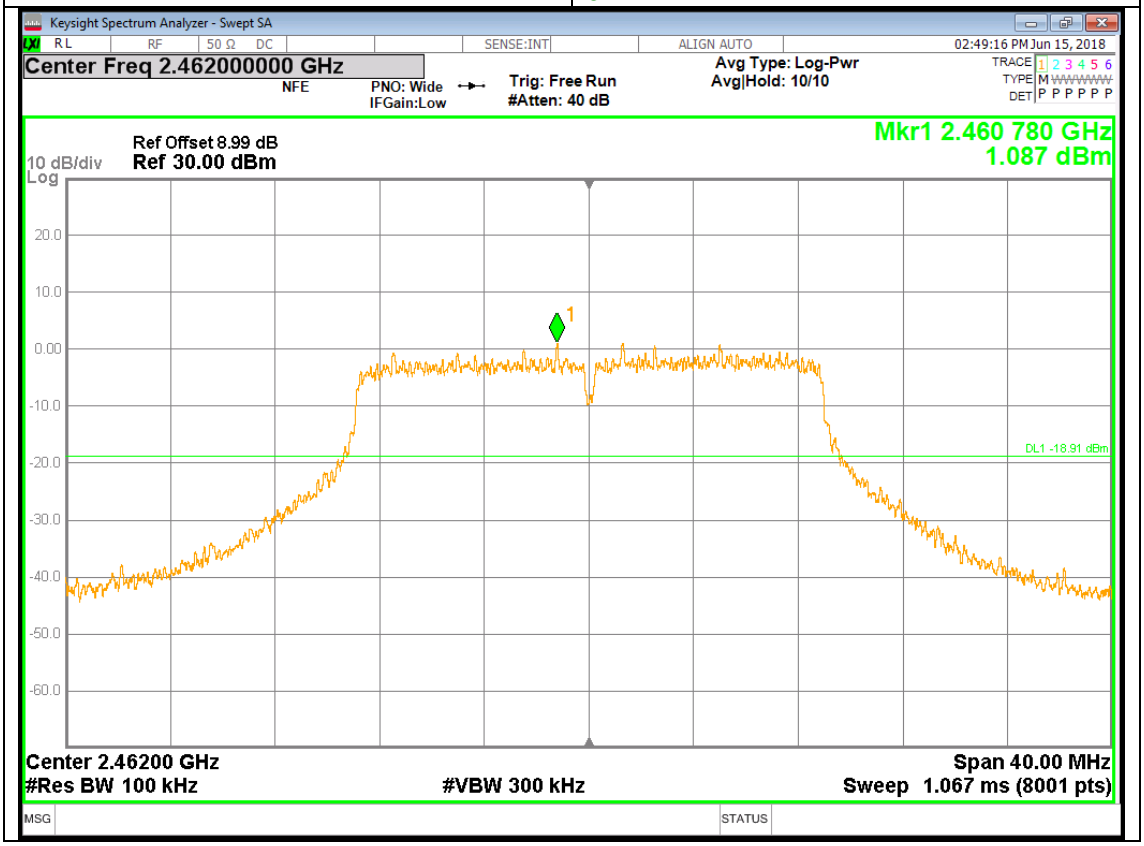
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25740.000MHz@ -44.555 dBm**



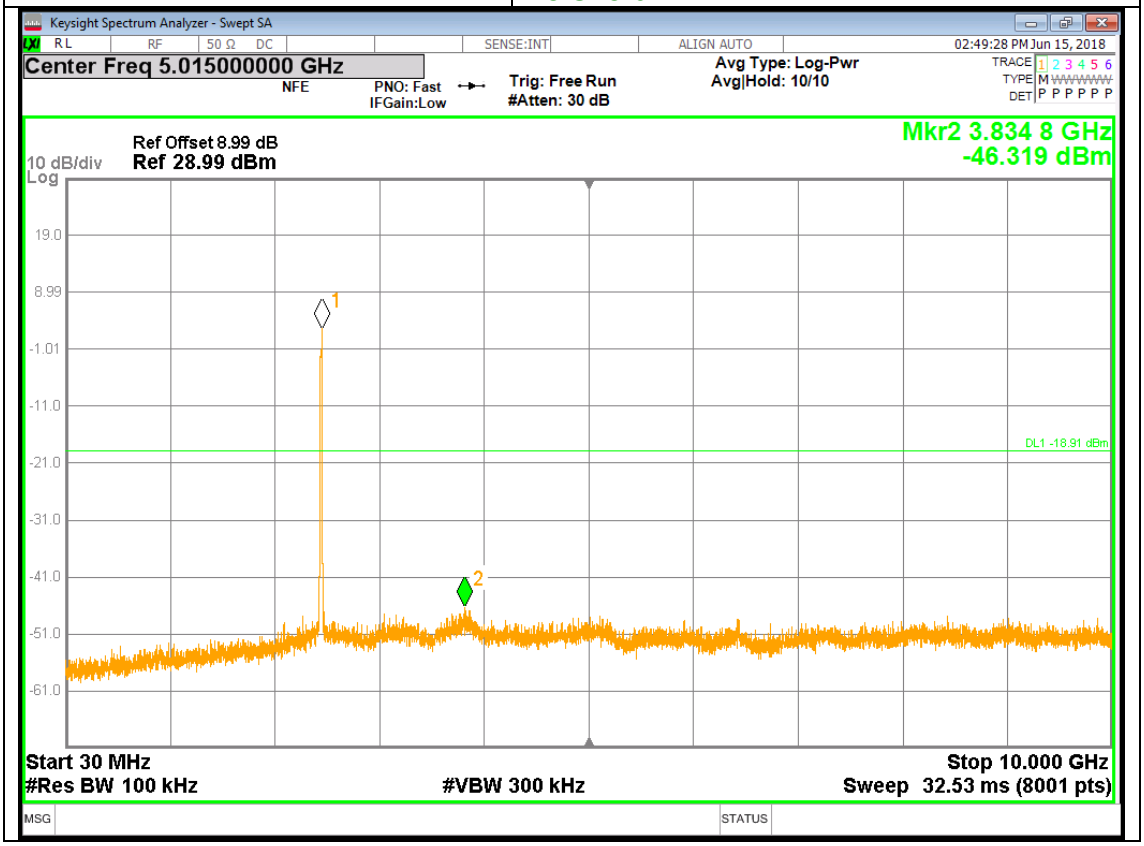
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:1.786dBm;Max:2483.613MHz@-41.050dBm42.836dbc**



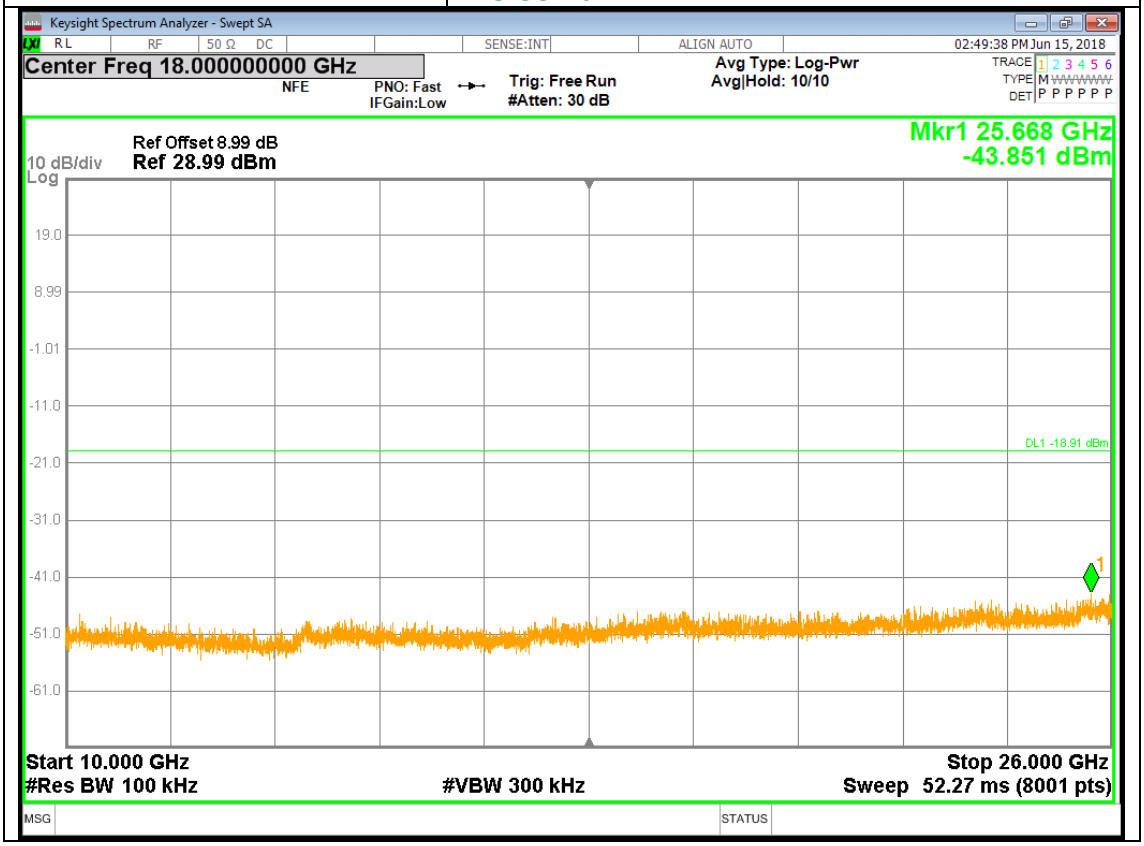
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2460.780MHz@1.087 dBm**



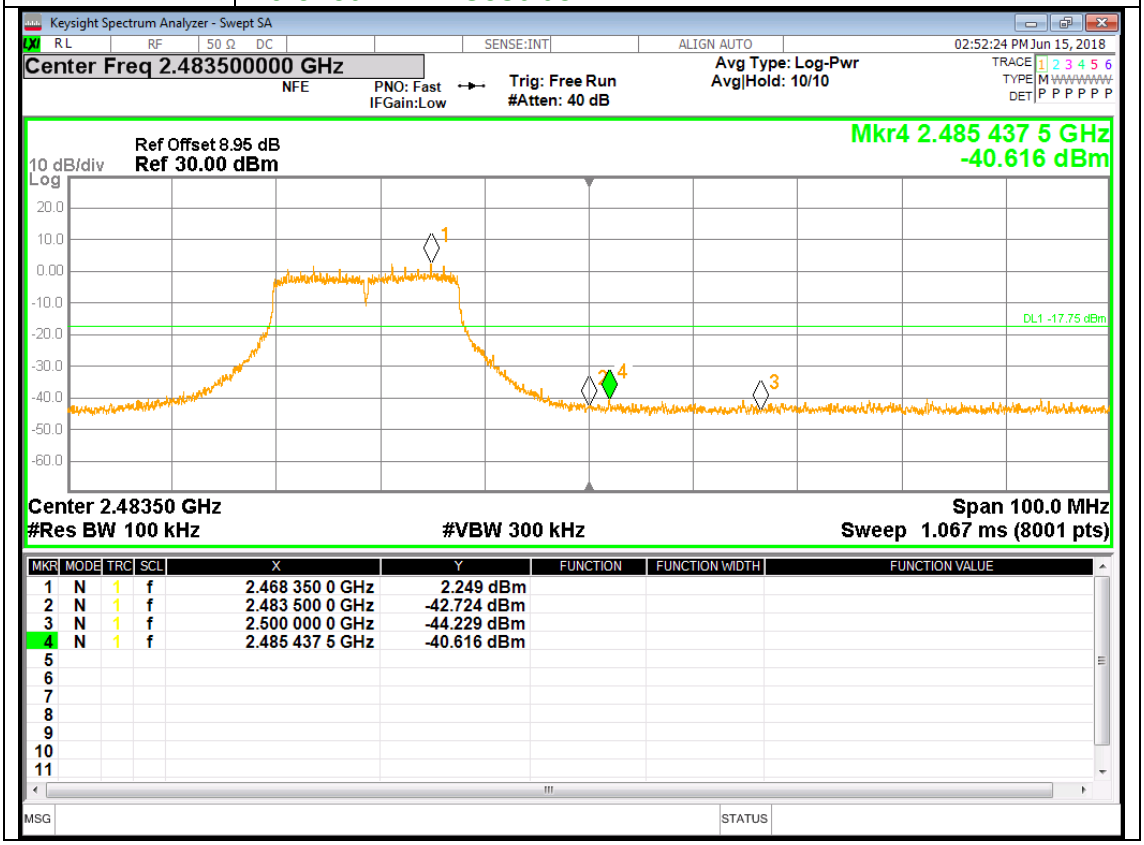
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3834.801MHz@-46.319 dBm**



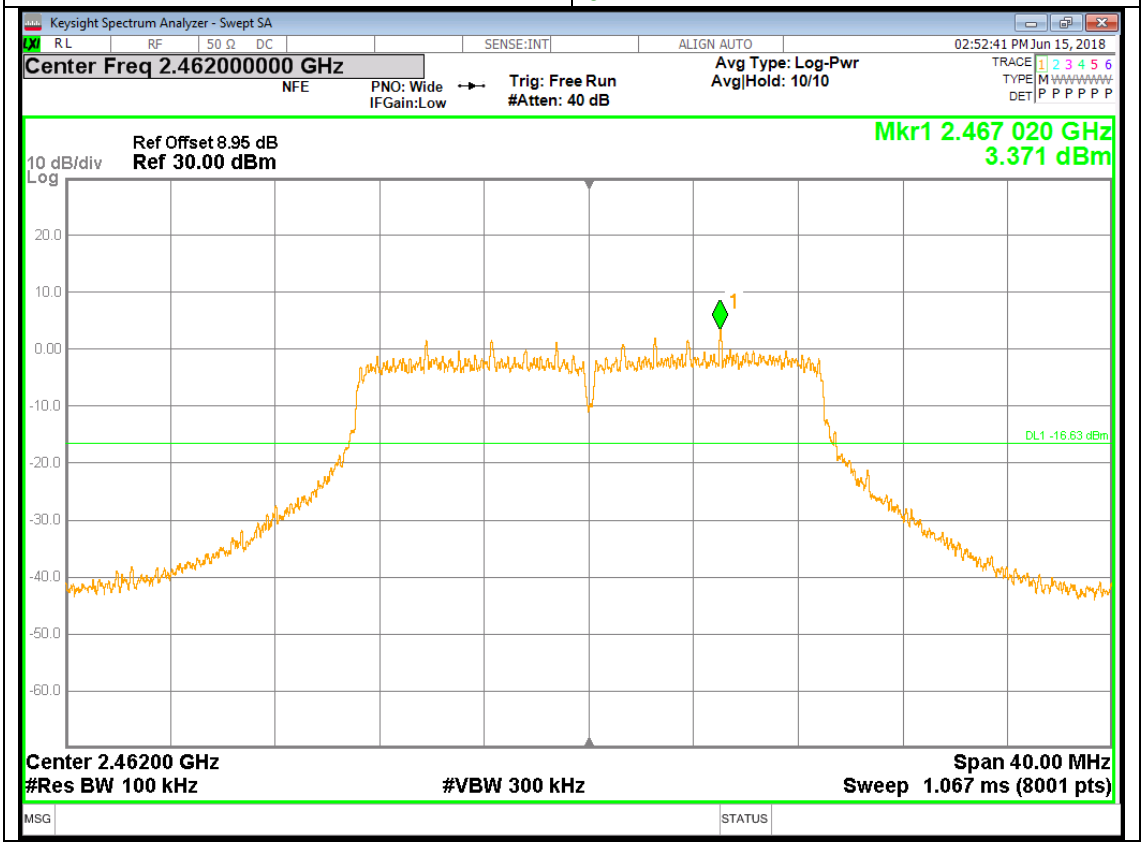
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25668.000MHz@ -43.851 dBm**



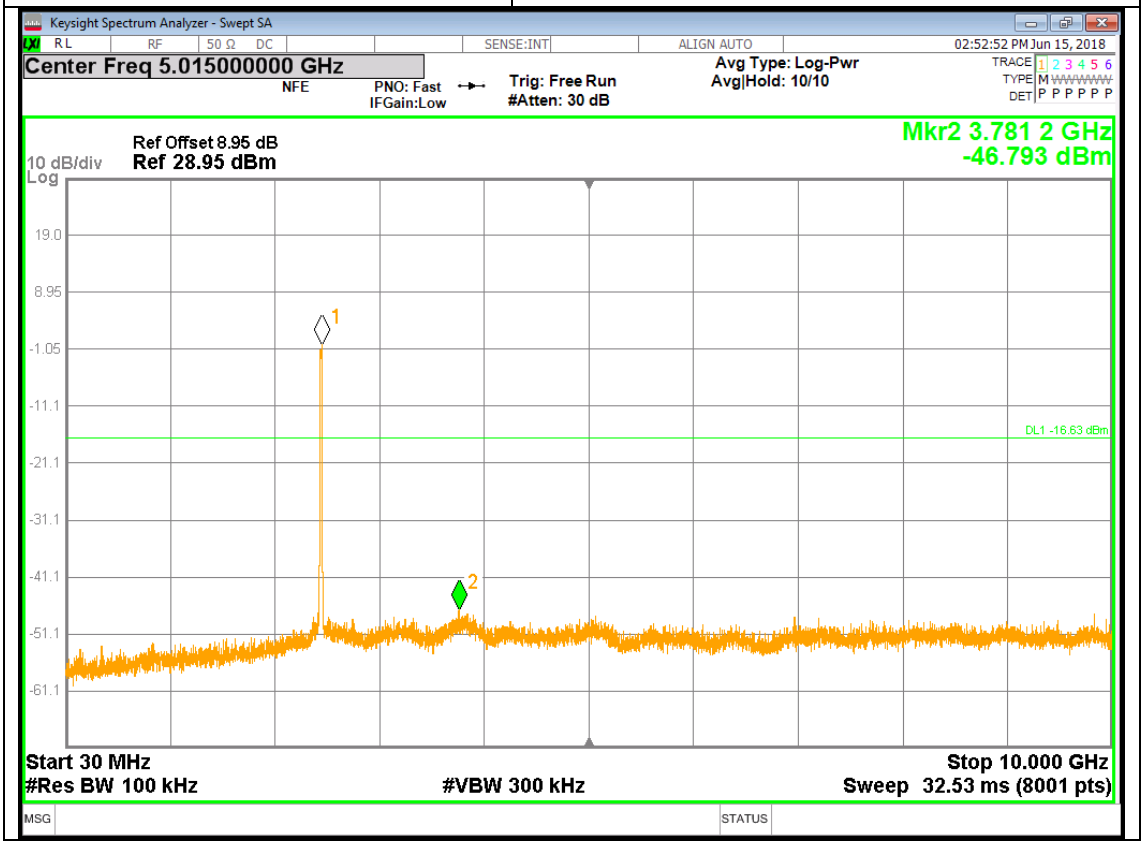
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:2.249dBm;Max:2485.438MHz@-40.616dBm42.865dbc**



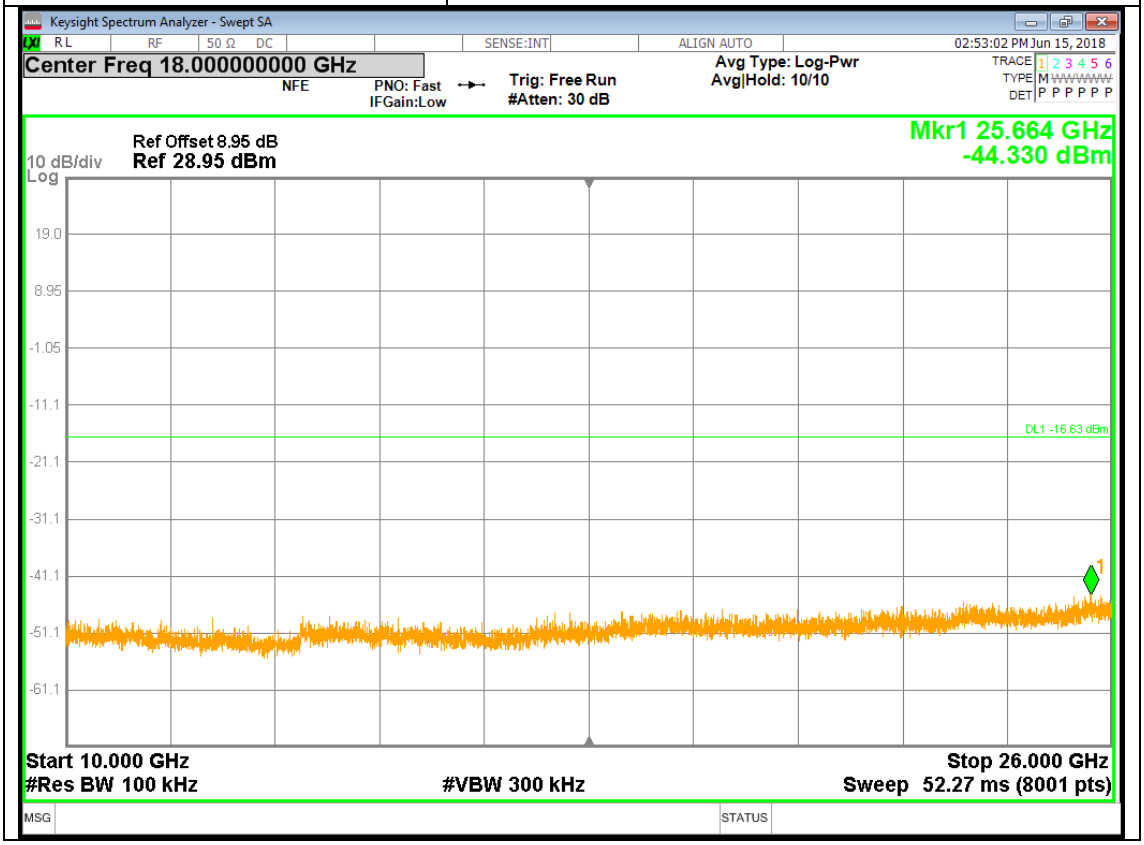
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2467.020MHz@3.371 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3781.213MHz@ -46.793 dBm**



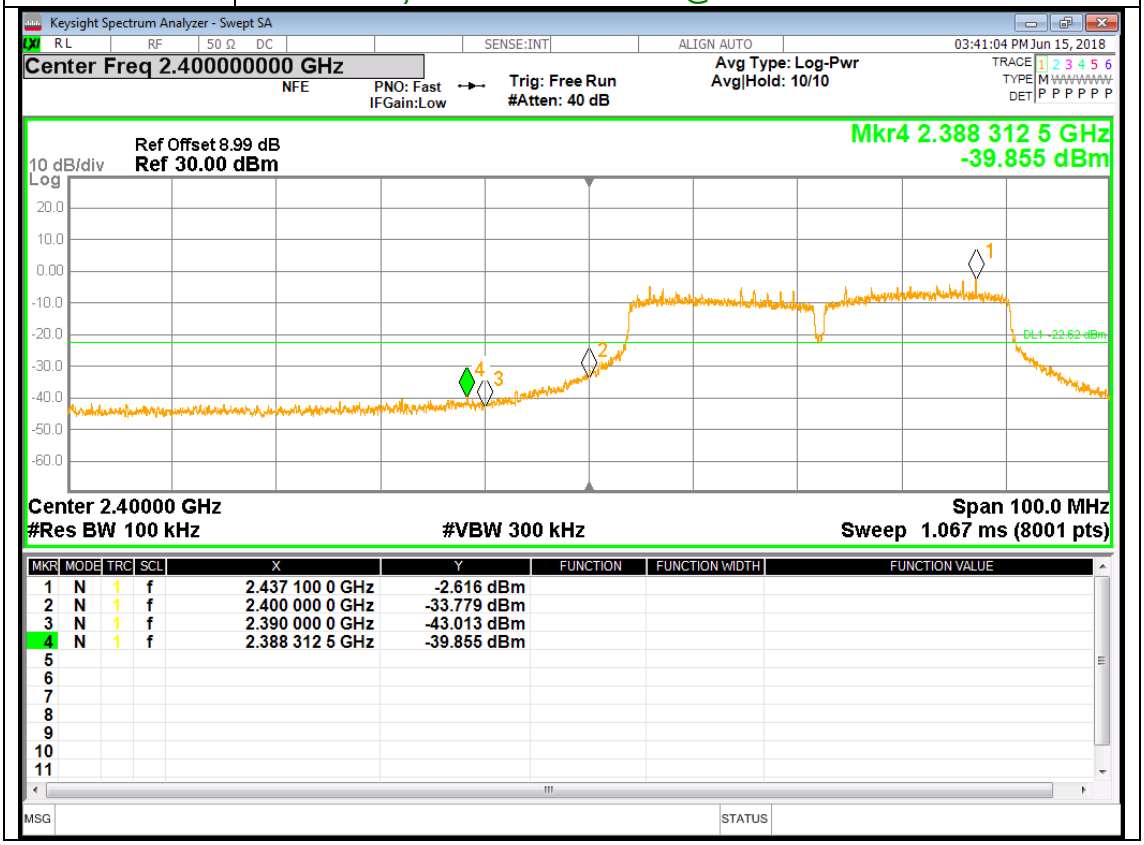
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20MIMO	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25664.000MHz@ -44.330 dBm**



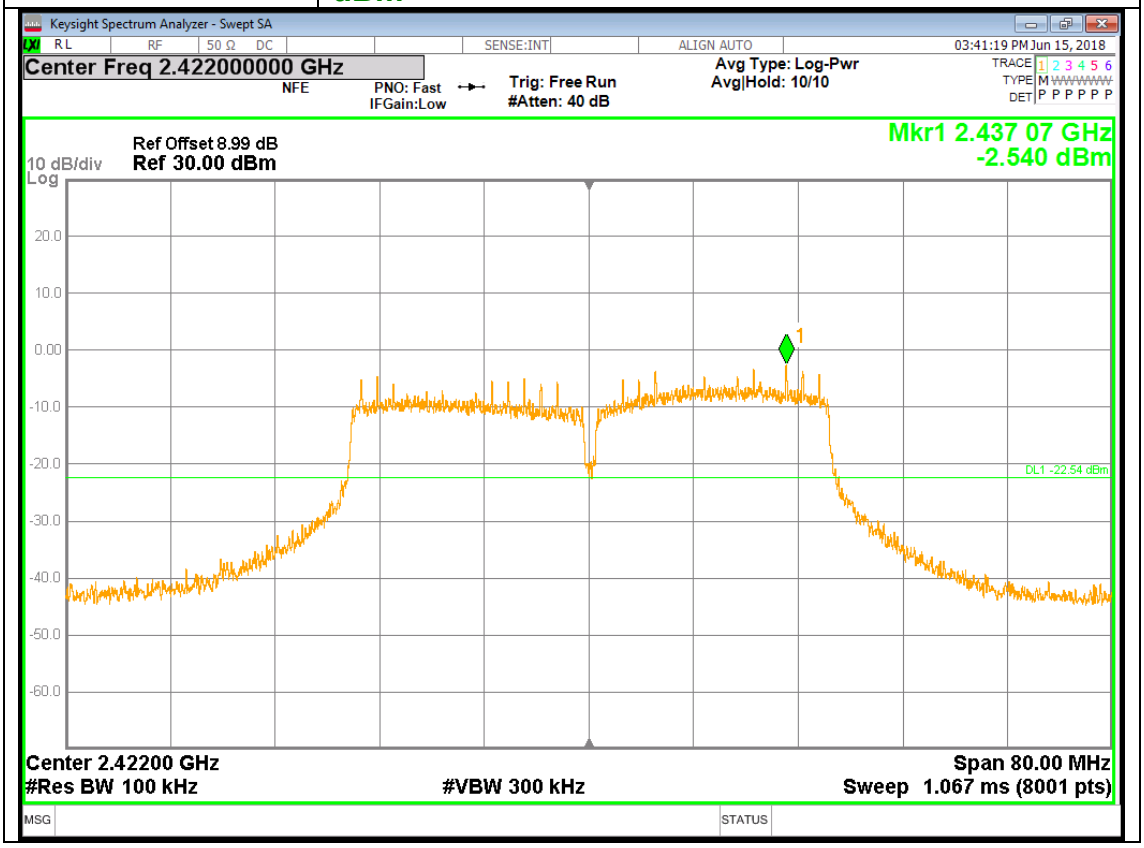
7.5.7. 802.11n40 MIMO MODE

Low Channel

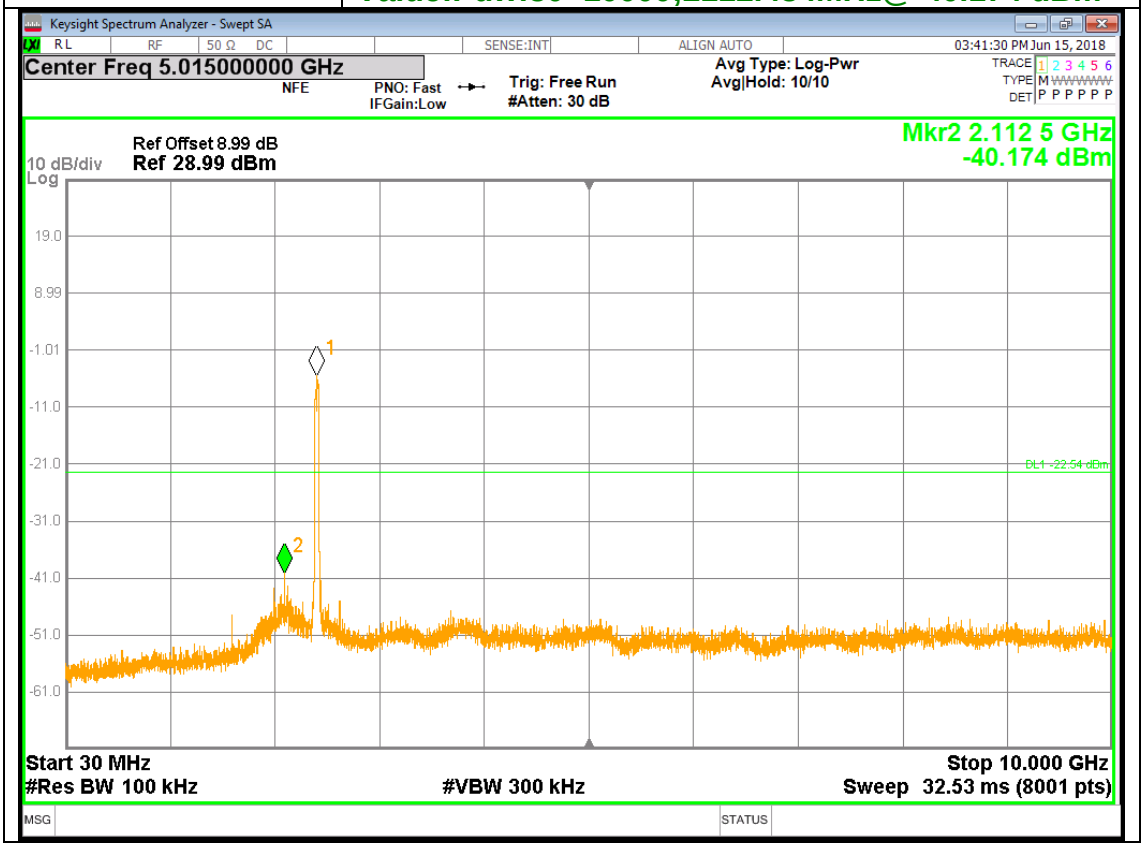
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-2.616dBm;Max:2388.313MHz@-39.855dBm37.239dbc**



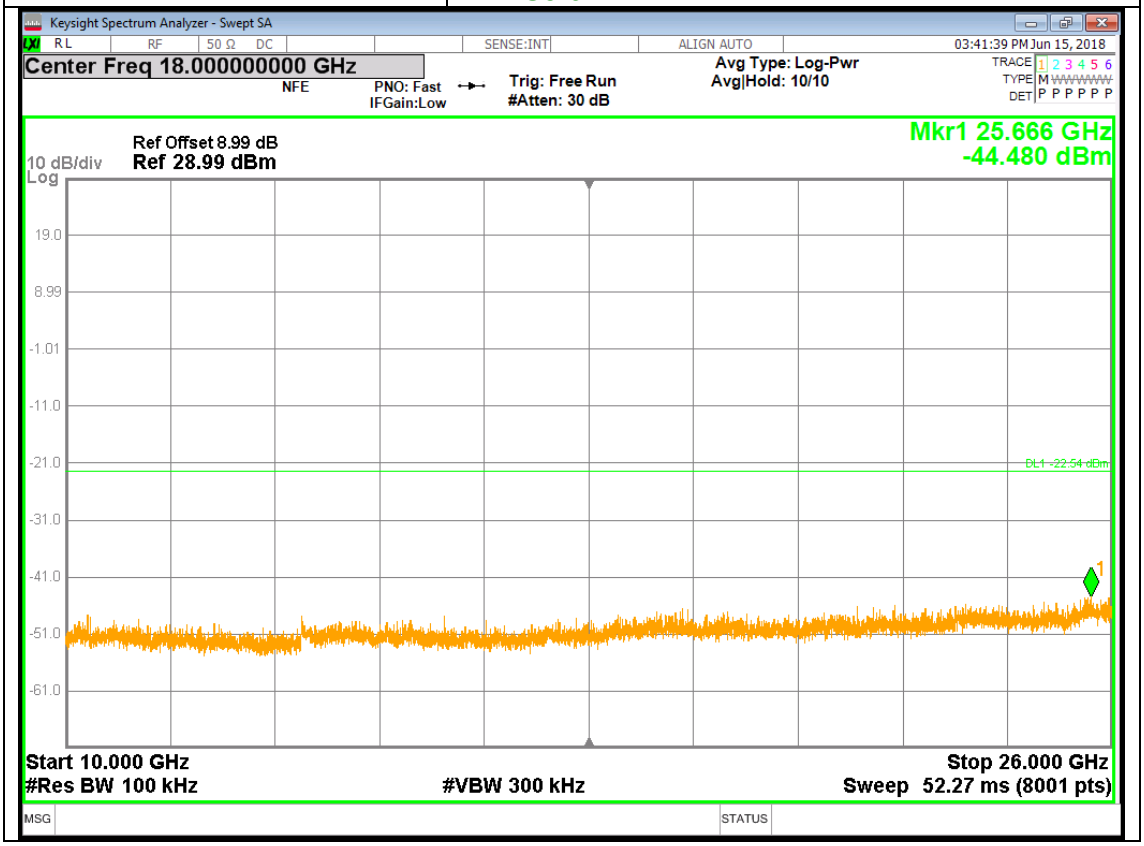
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2437.070MHz@-2.540 dBm**



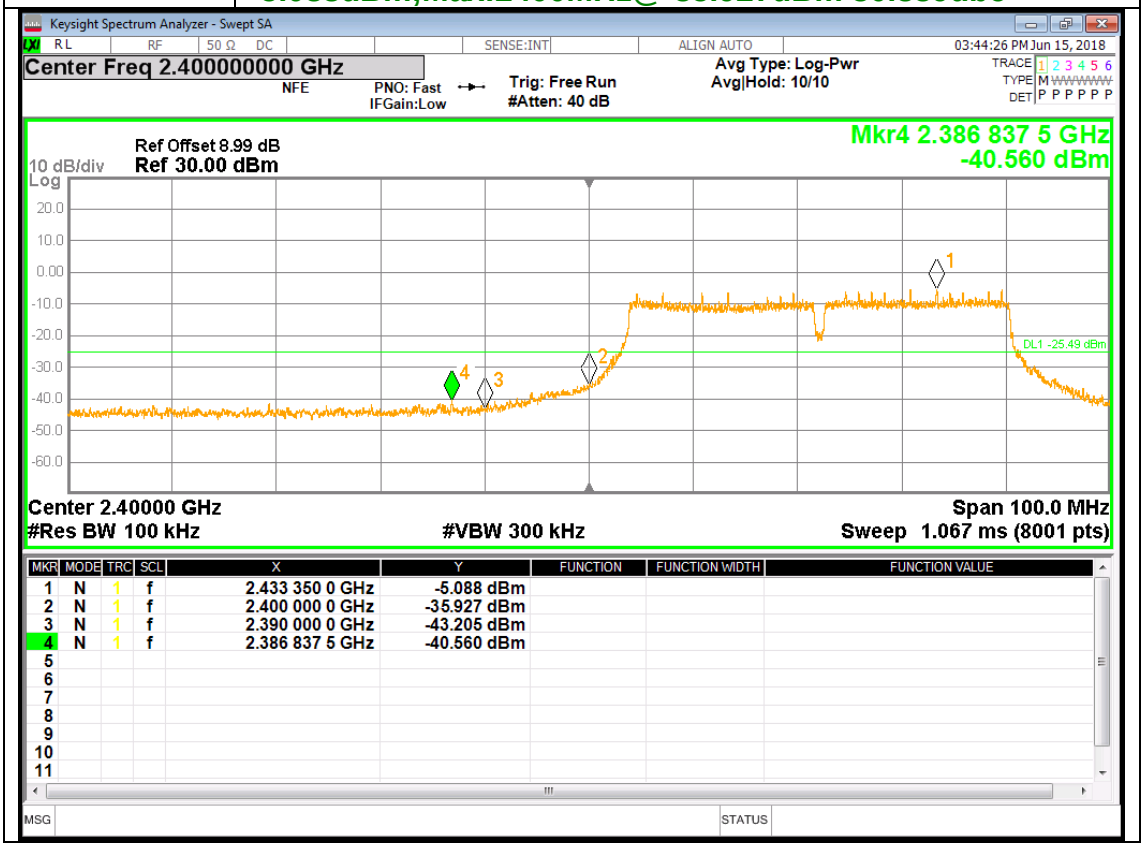
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-40.174 dBm**



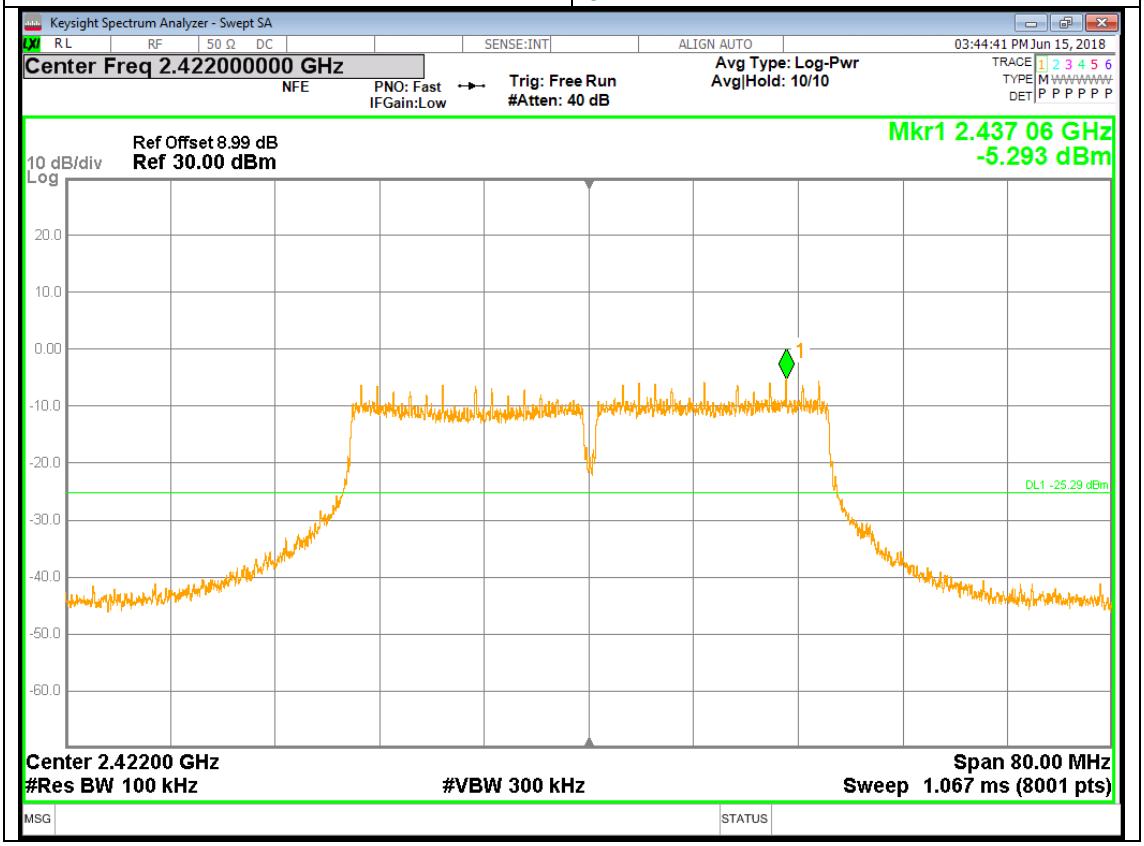
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25666.000MHz@-44.480 dBm**



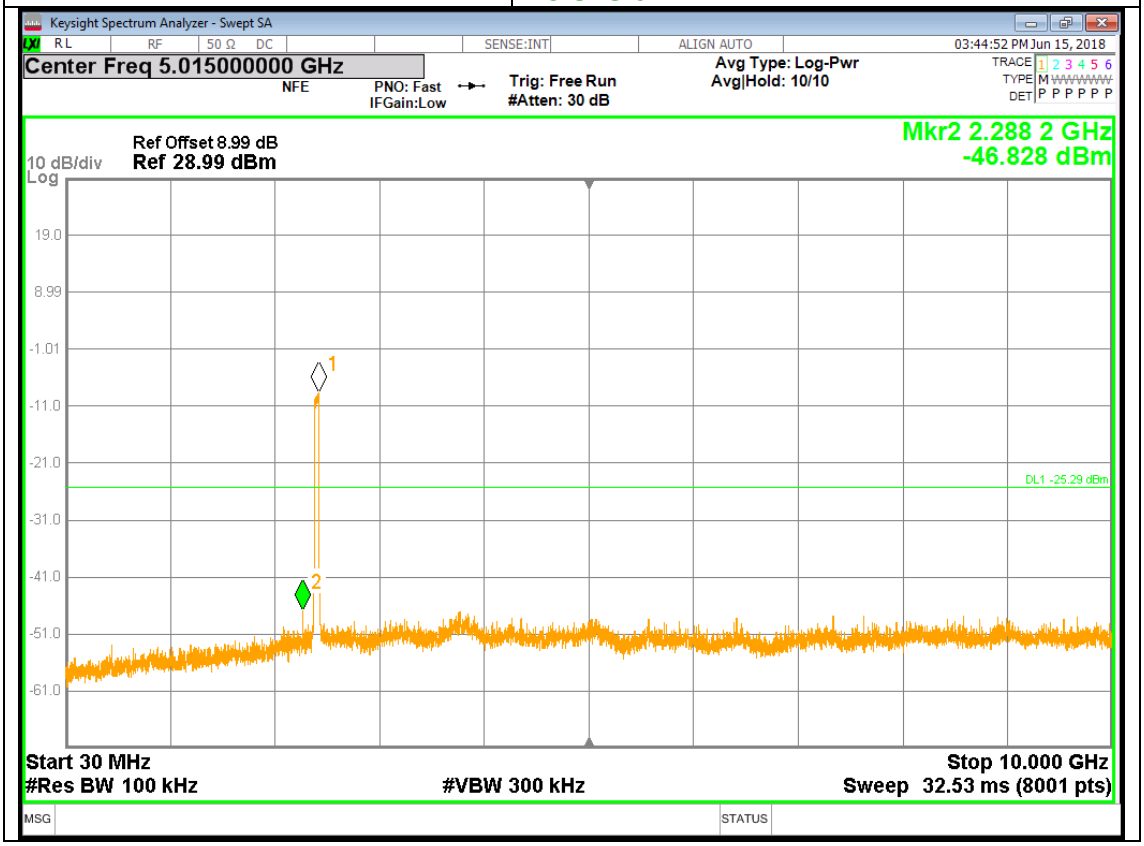
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak: -5.088dBm;Max:2400MHz@-35.927dBm 30.839dbc**



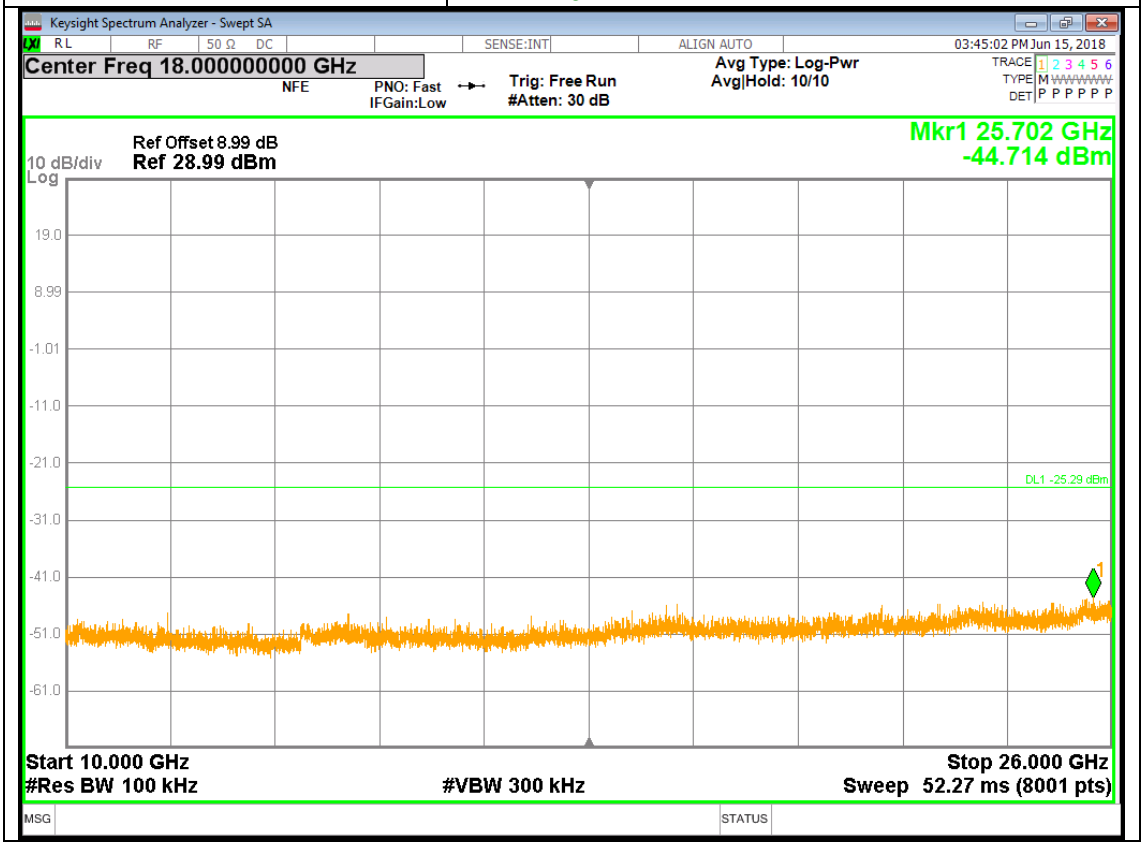
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2437.060MHz@-5.293 dBm**



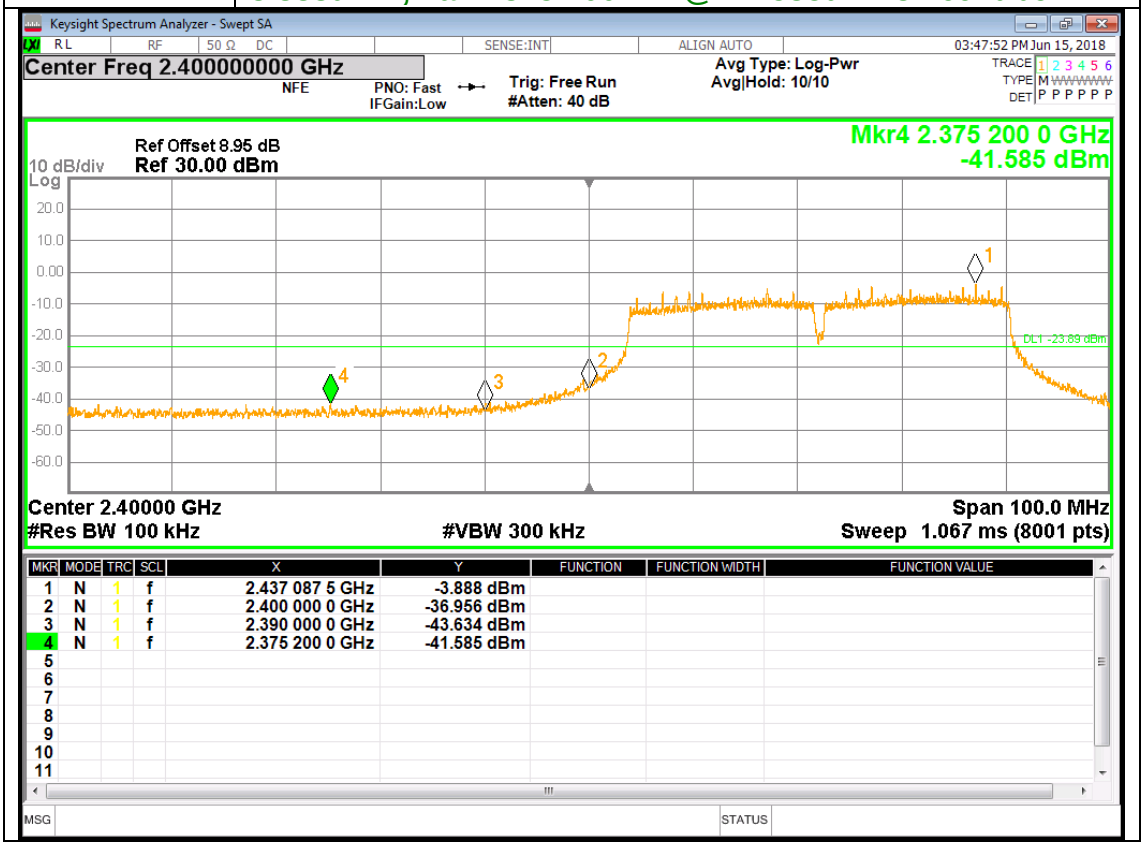
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2288.205MHz@-46.828 dBm**



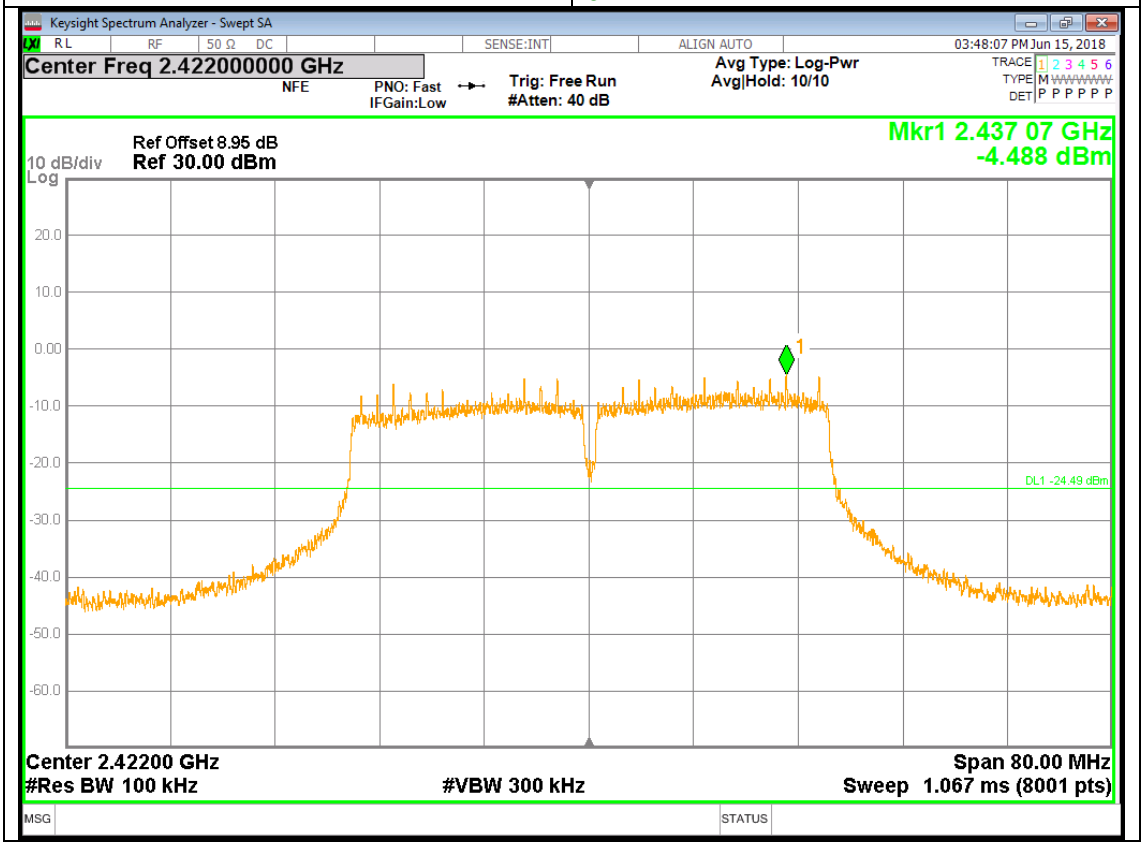
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25702.000MHz@-44.714 dBm**



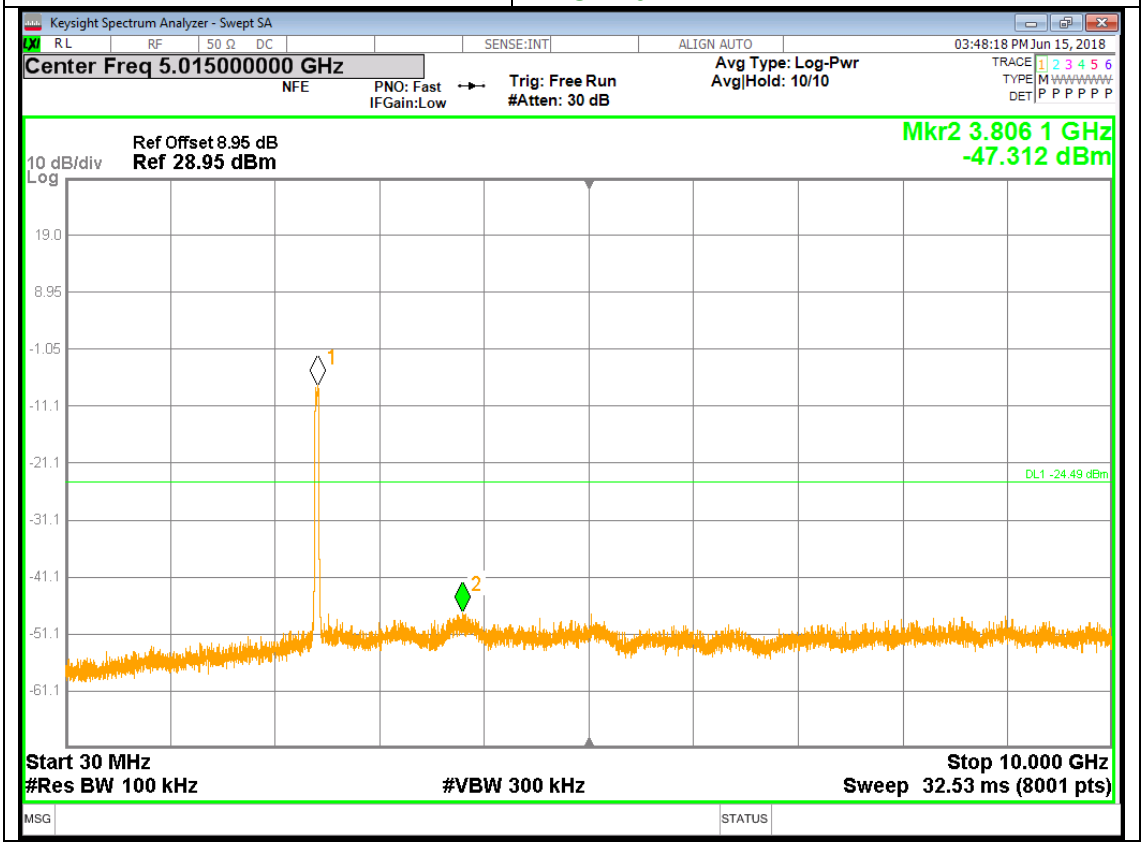
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-3.888dBm;Max:2375.200MHz@-41.585dBm37.697dbc**



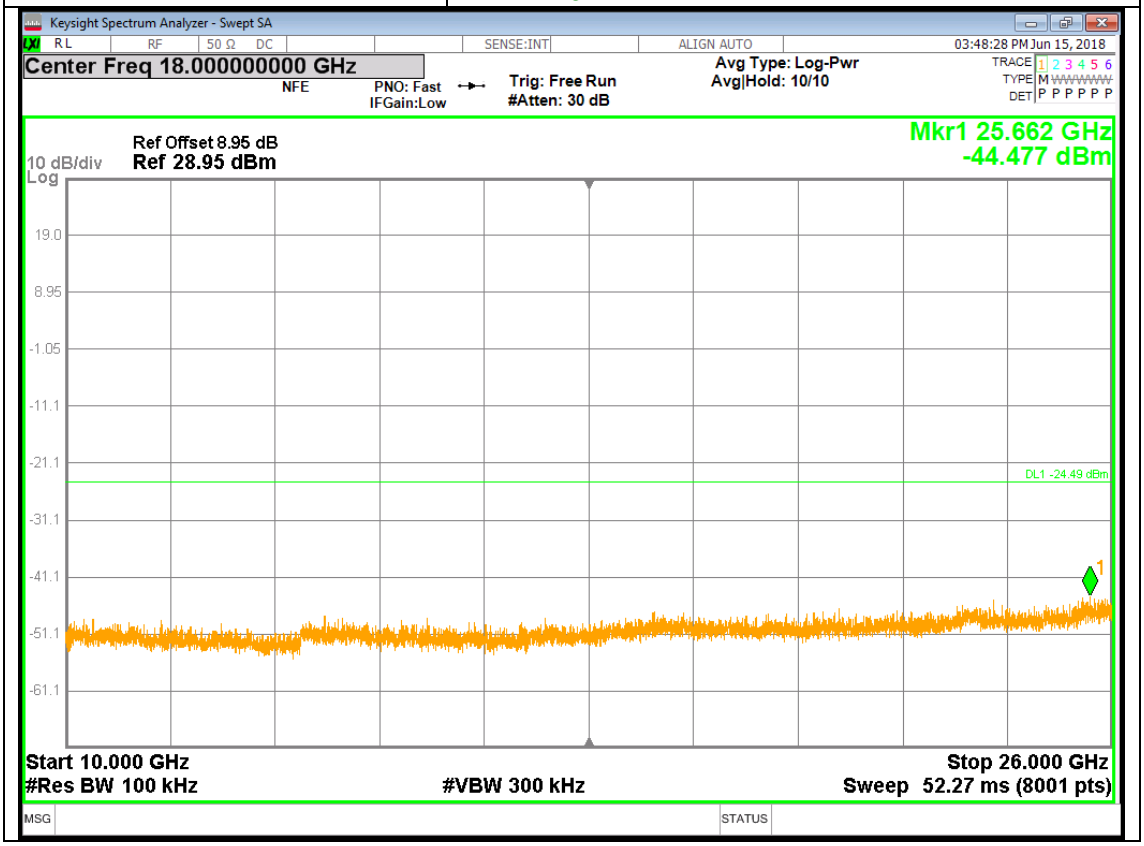
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2437.070MHz@-4.488 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3806.138MHz@-47.312 dBm**

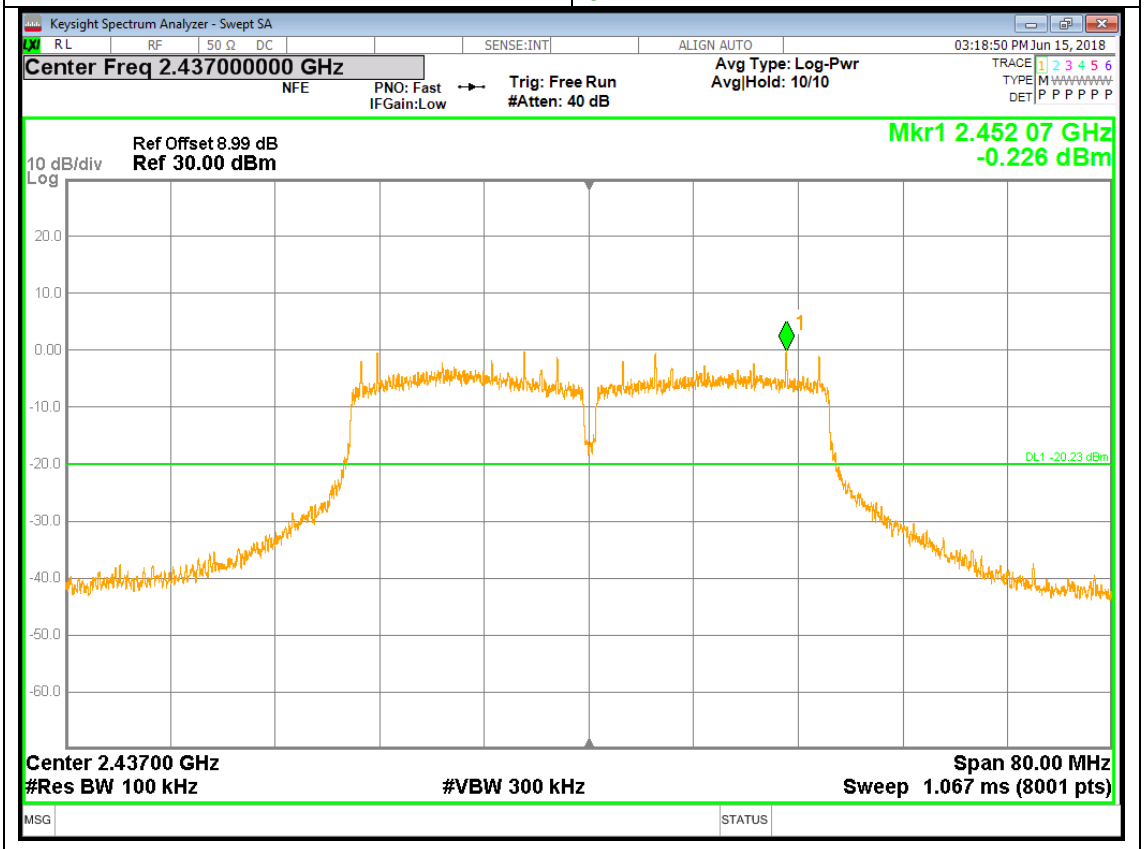


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25662.000MHz@-44.477 dBm**

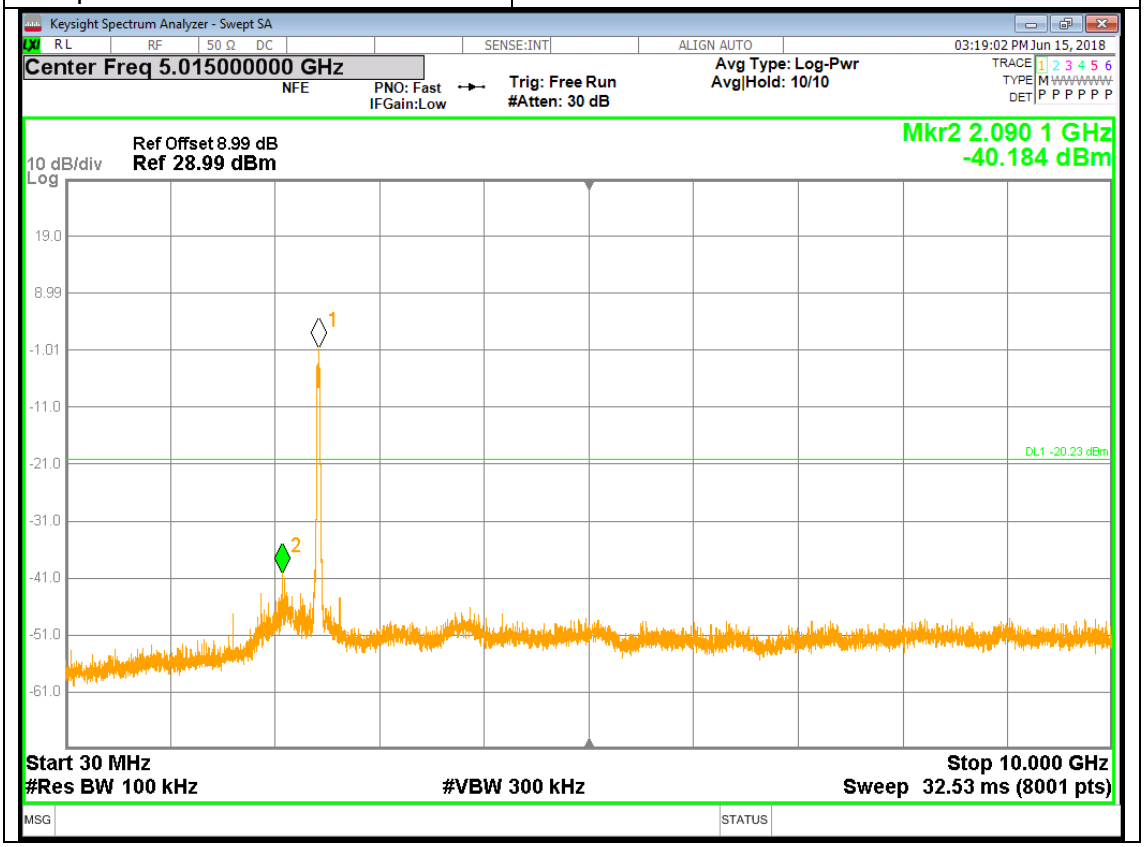


Middle Channel

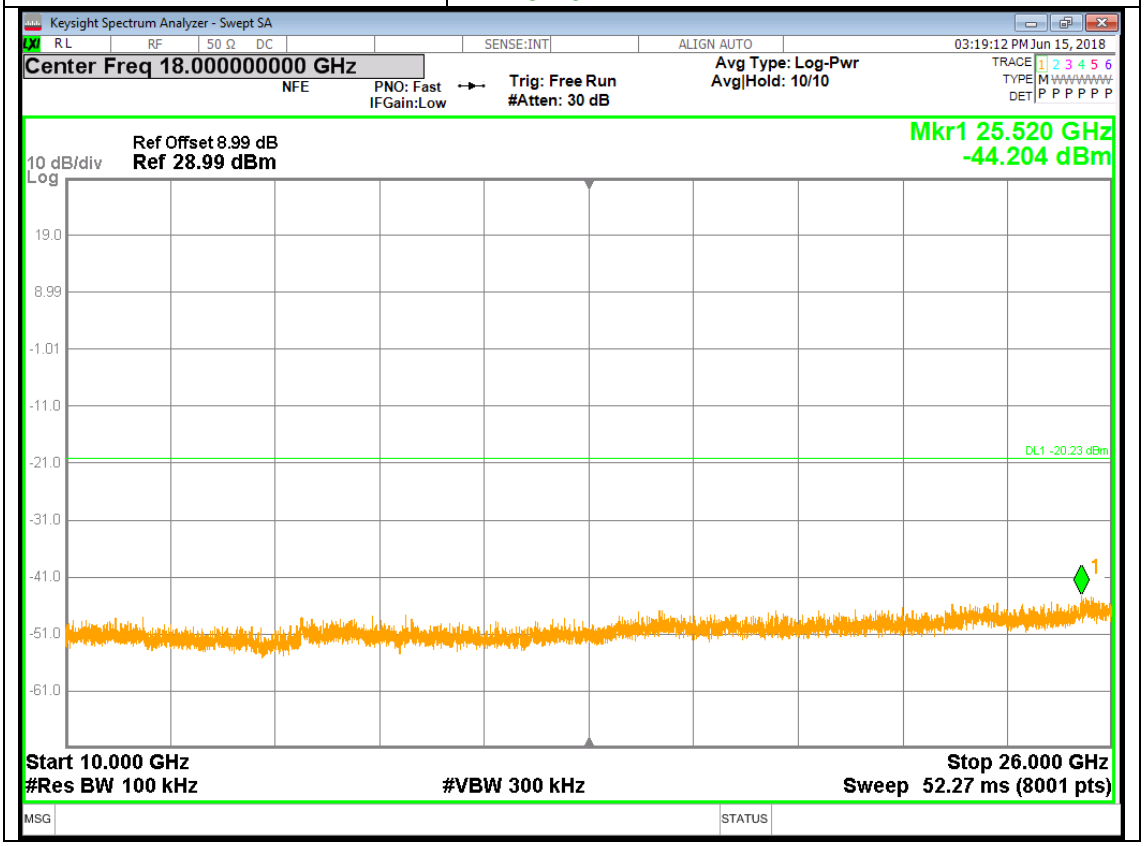
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2452.070MHz@-0.226 dBm**



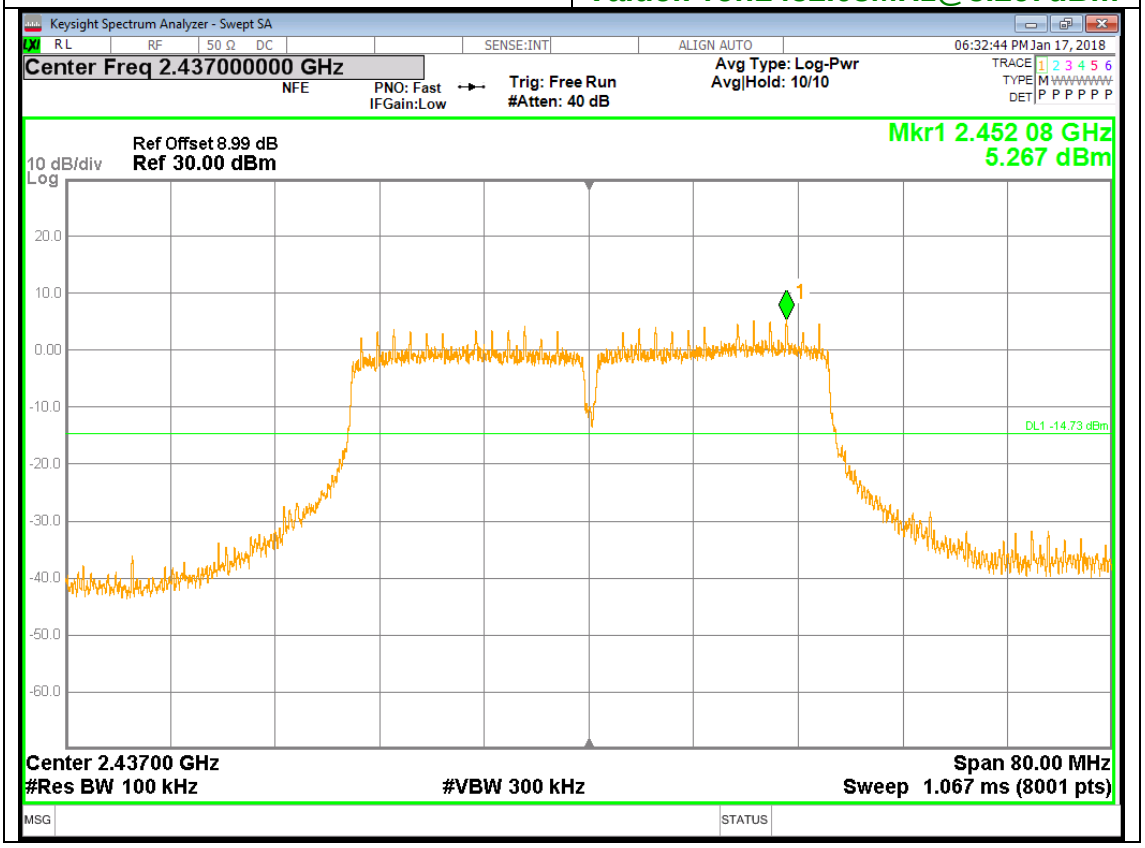
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: MCH	**Result: PASS** **Value:Puw:30~10000;2090.051MHz@-40.184 dBm**
Temperature: TN	



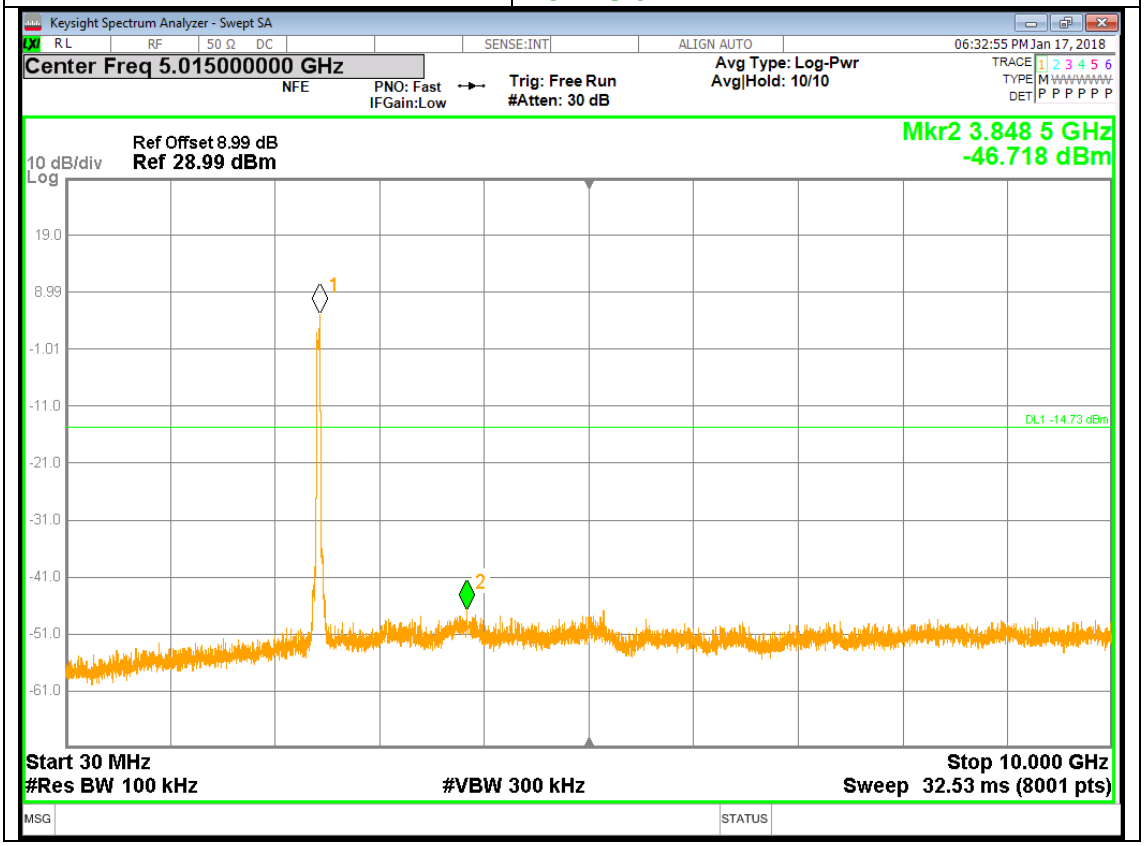
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25520.000MHz@-44.204 dBm**



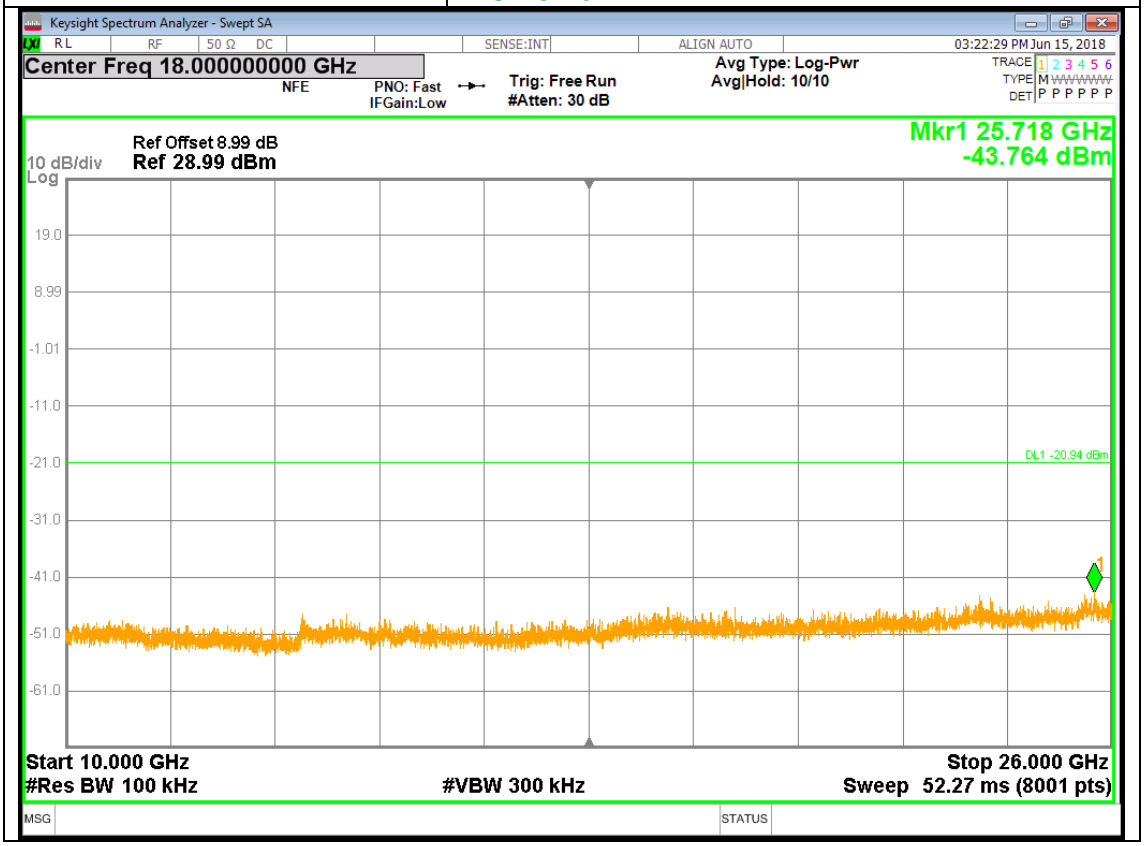
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2452.08MHz@5.267dBm**



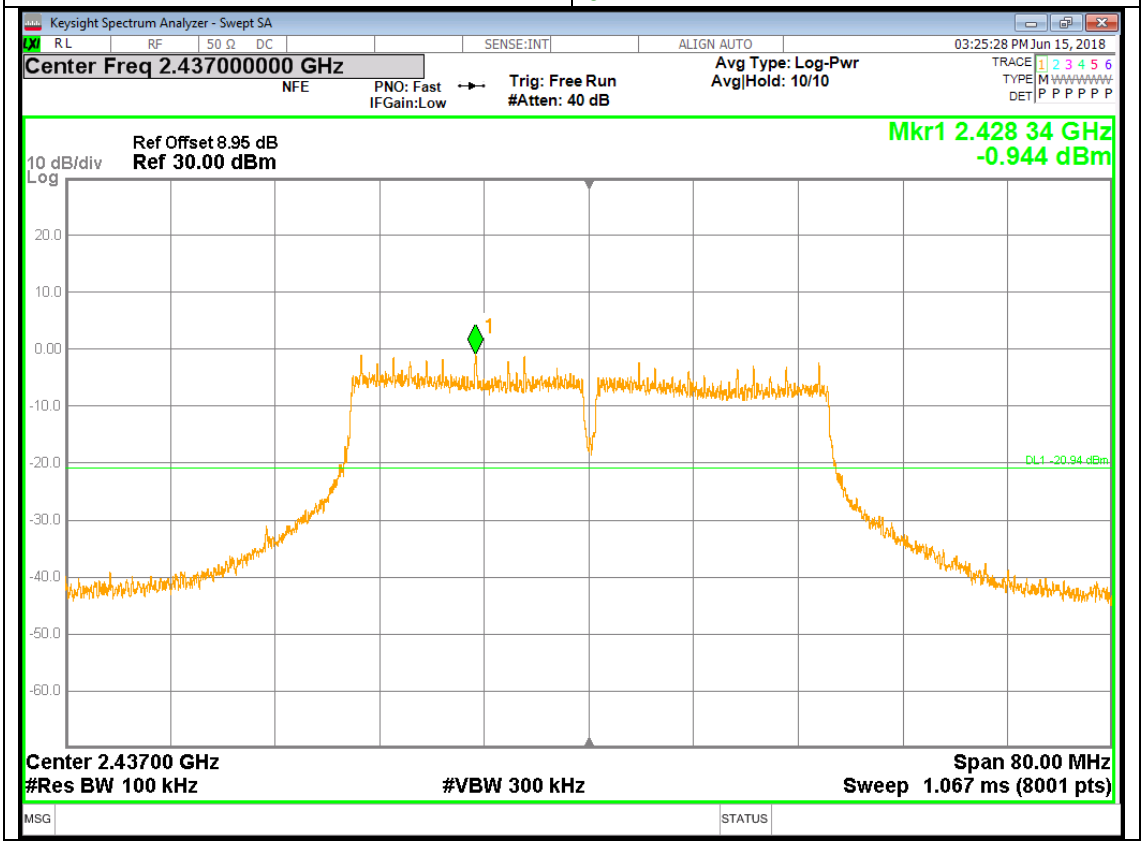
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3848.510MHz@-46.718 dBm**



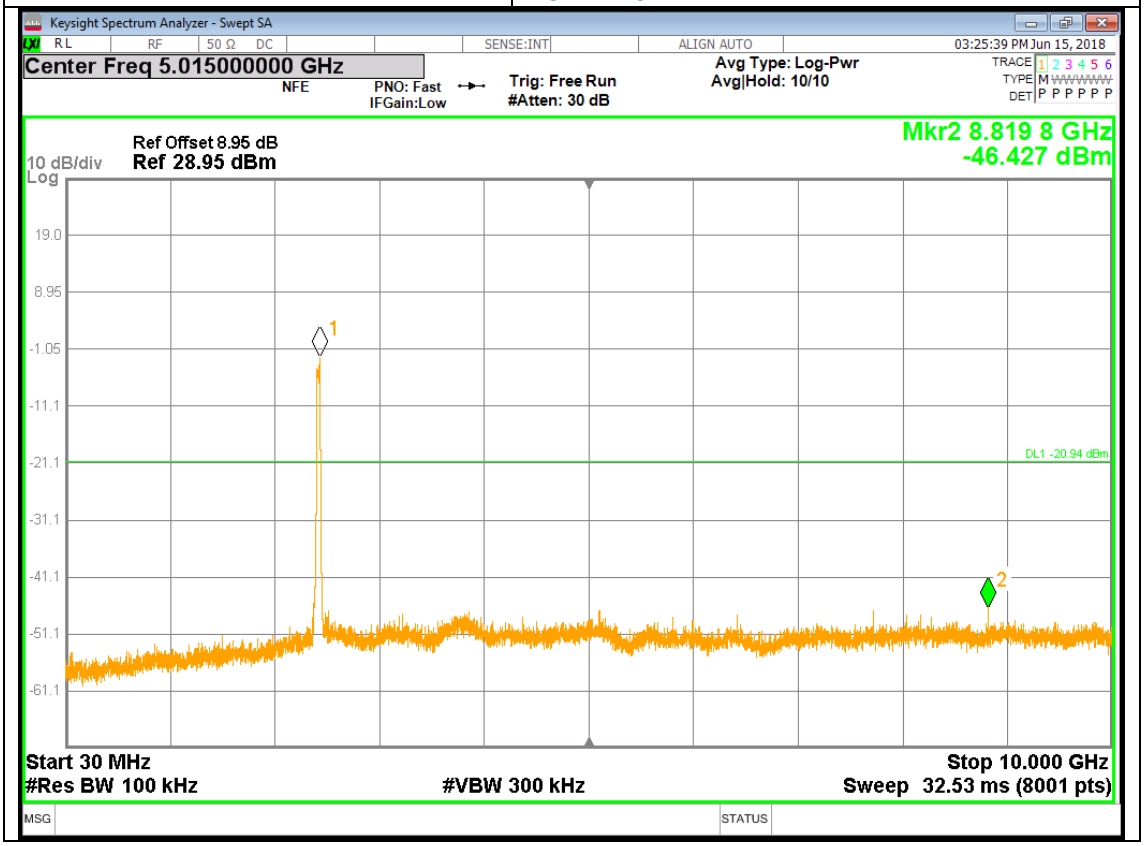
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25718.000MHz@ -43.764 dBm**



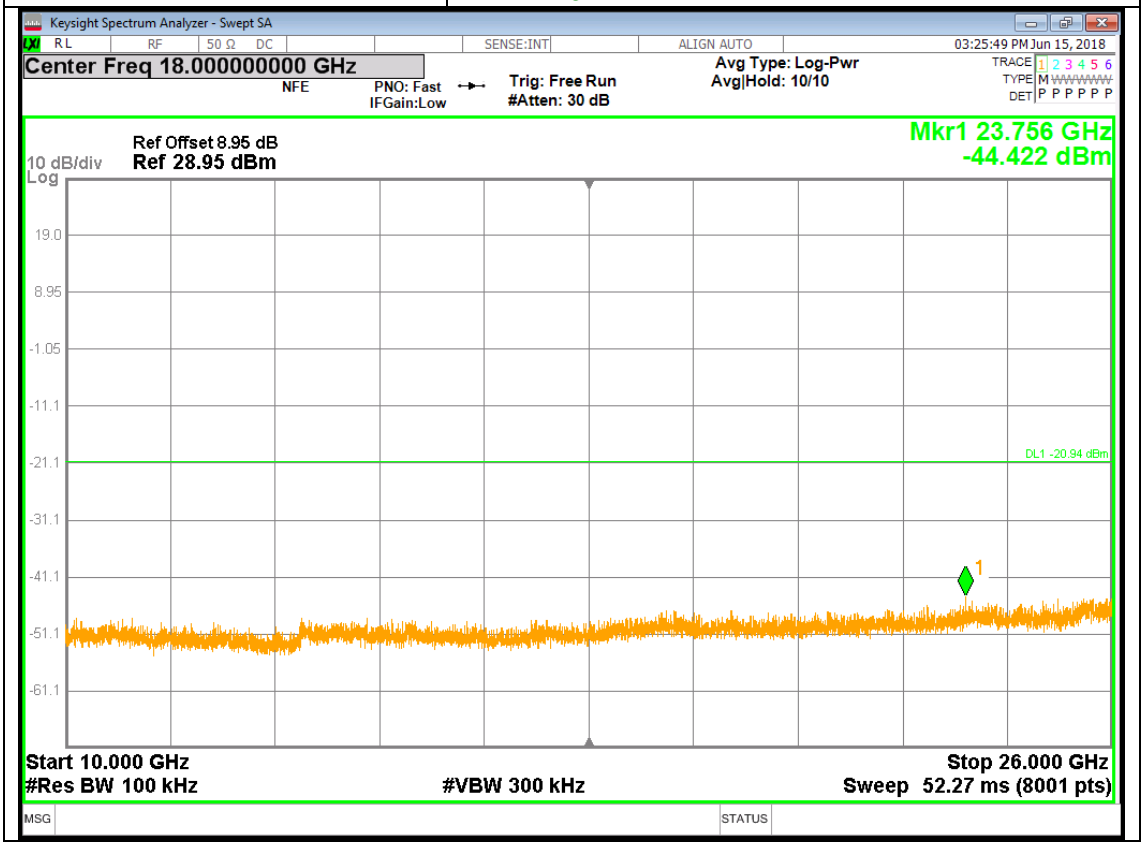
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2428.340MHz@-0.944 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;8819.801MHz@-46.427 dBm**

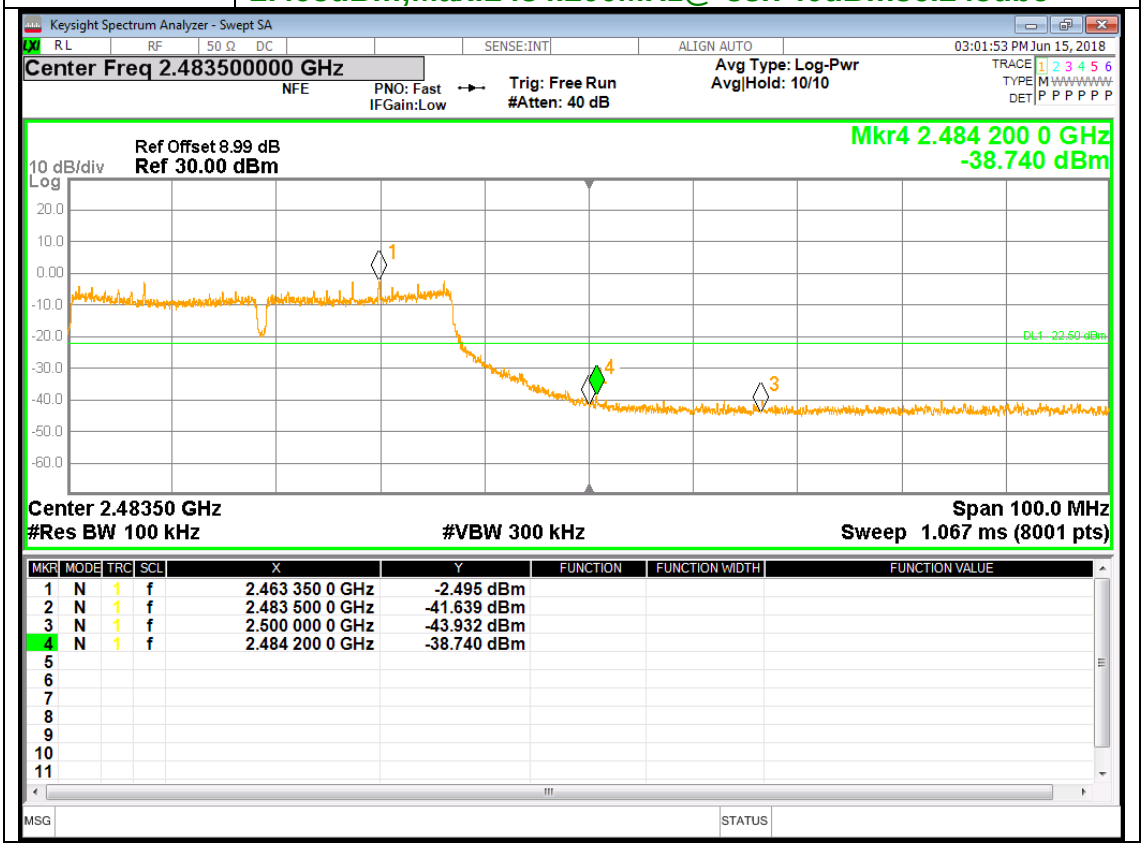


Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;23756.000MHz@-44.422 dBm**

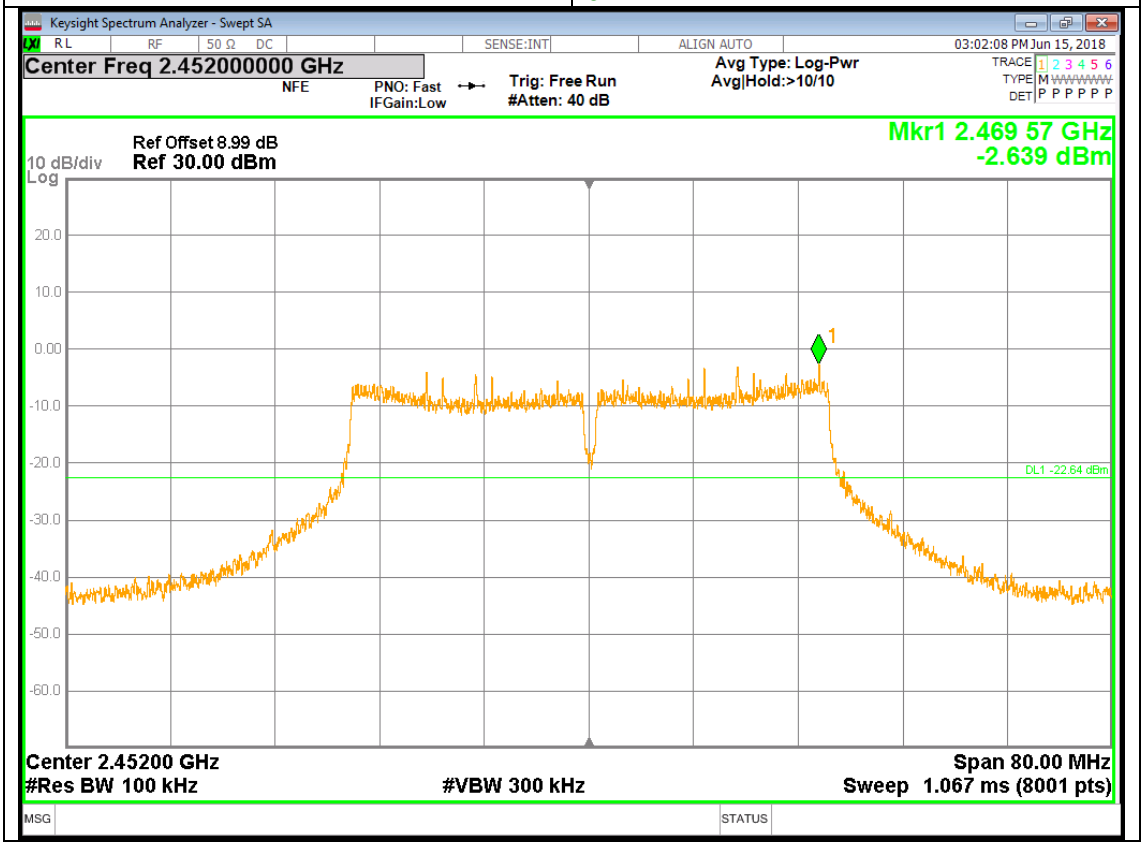


High Channel

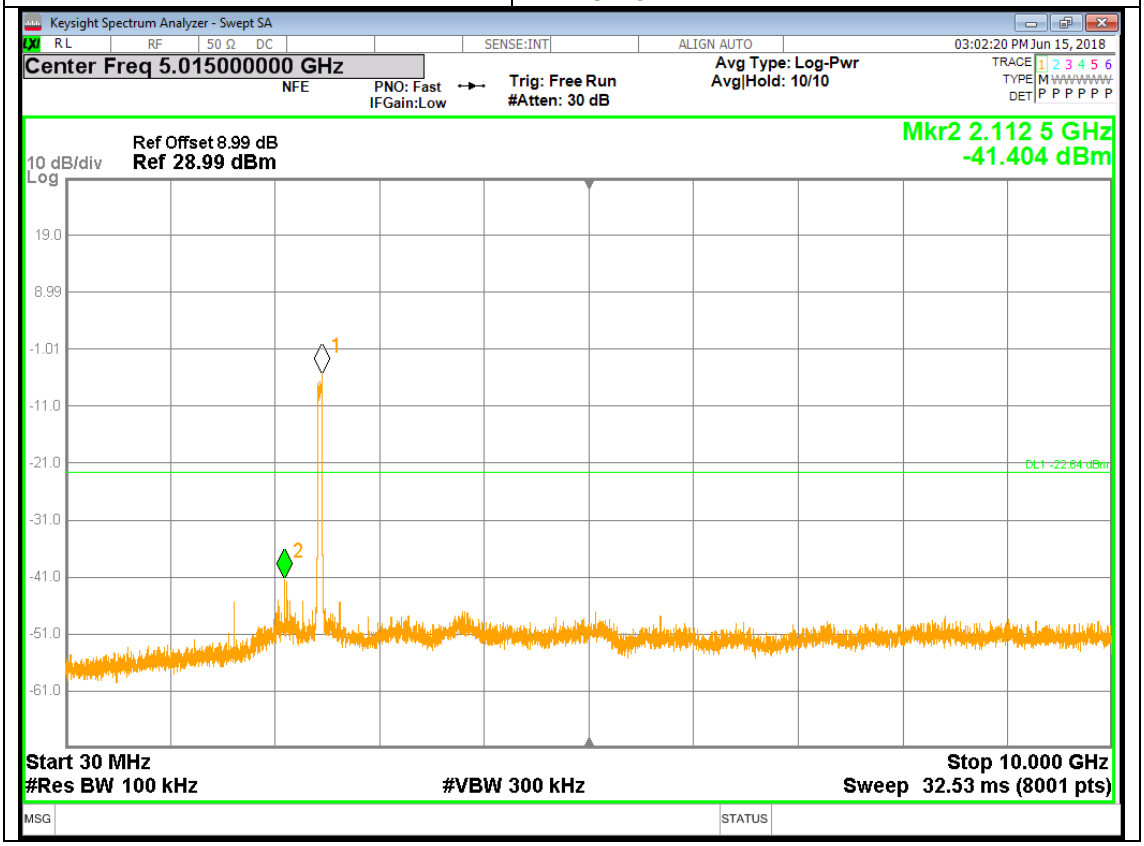
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-2.495dBm;Max:2484.200MHz@-38.740dBm36.245dbc**



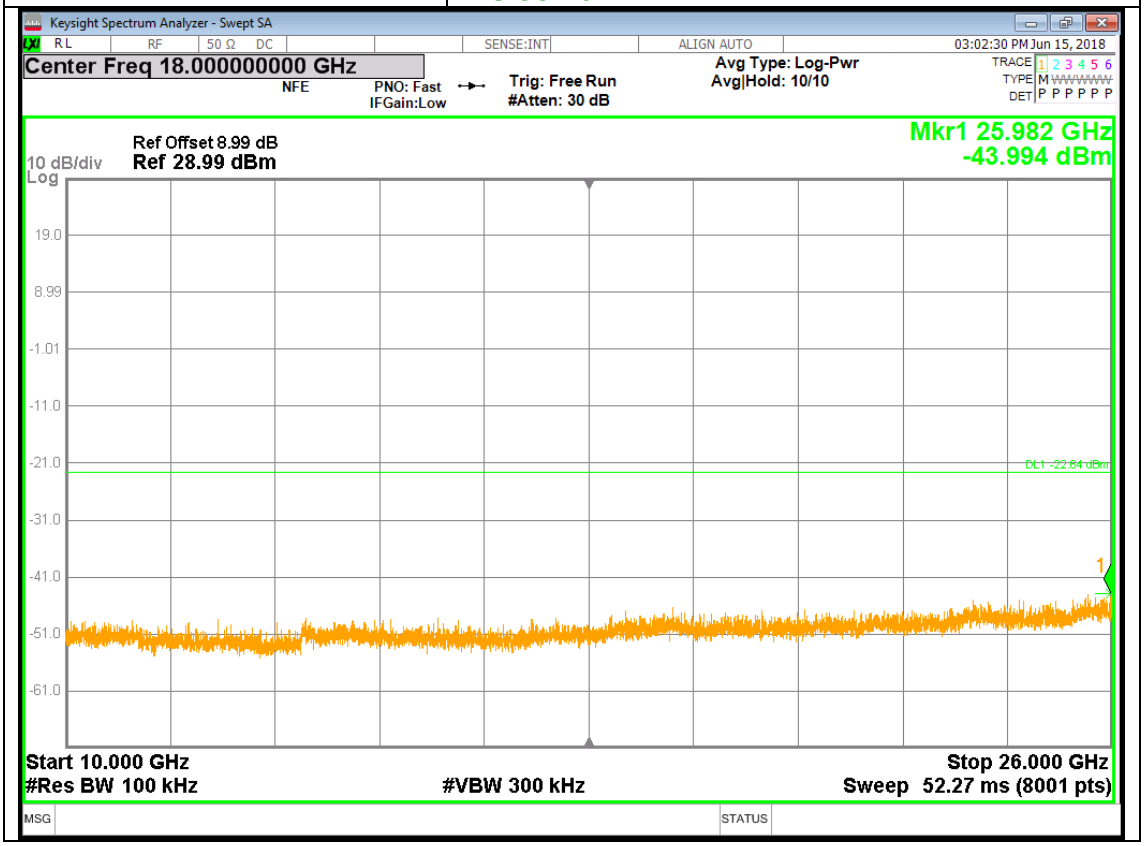
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2469.570MHz@-2.639 dBm**



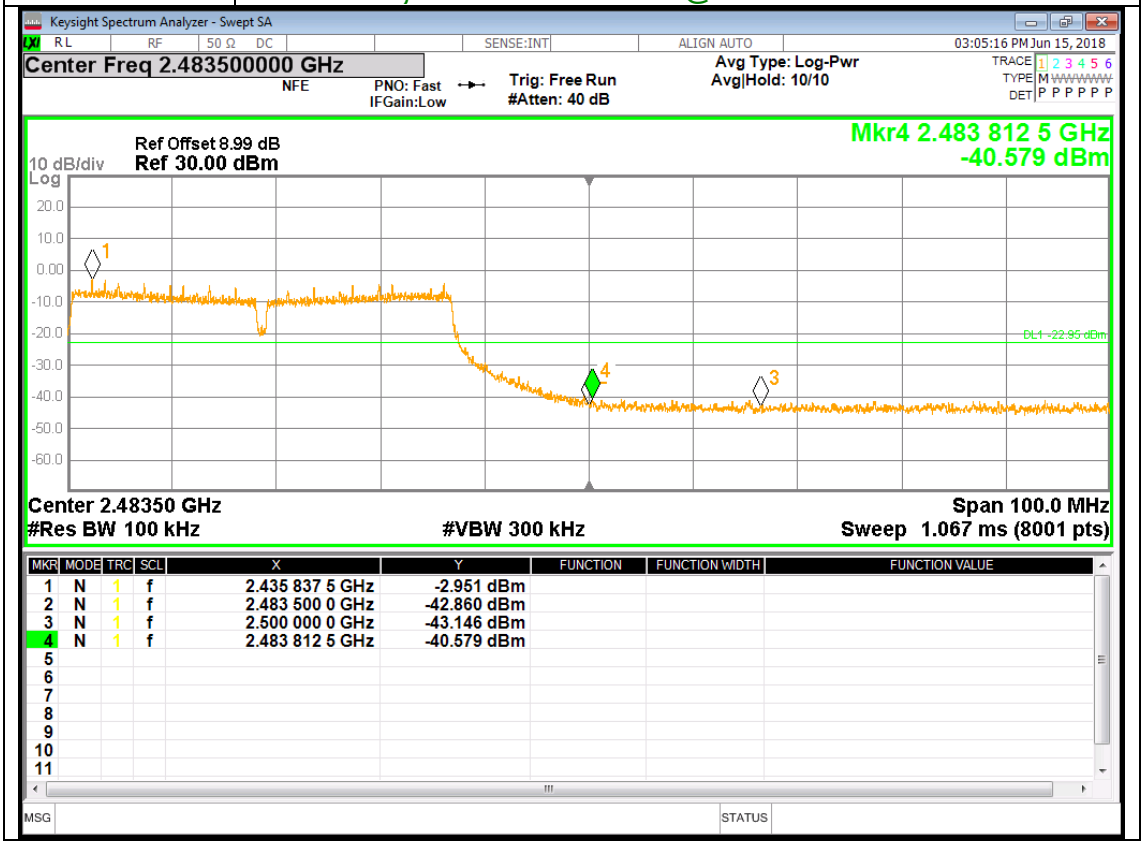
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2112.484MHz@-41.404 dBm**



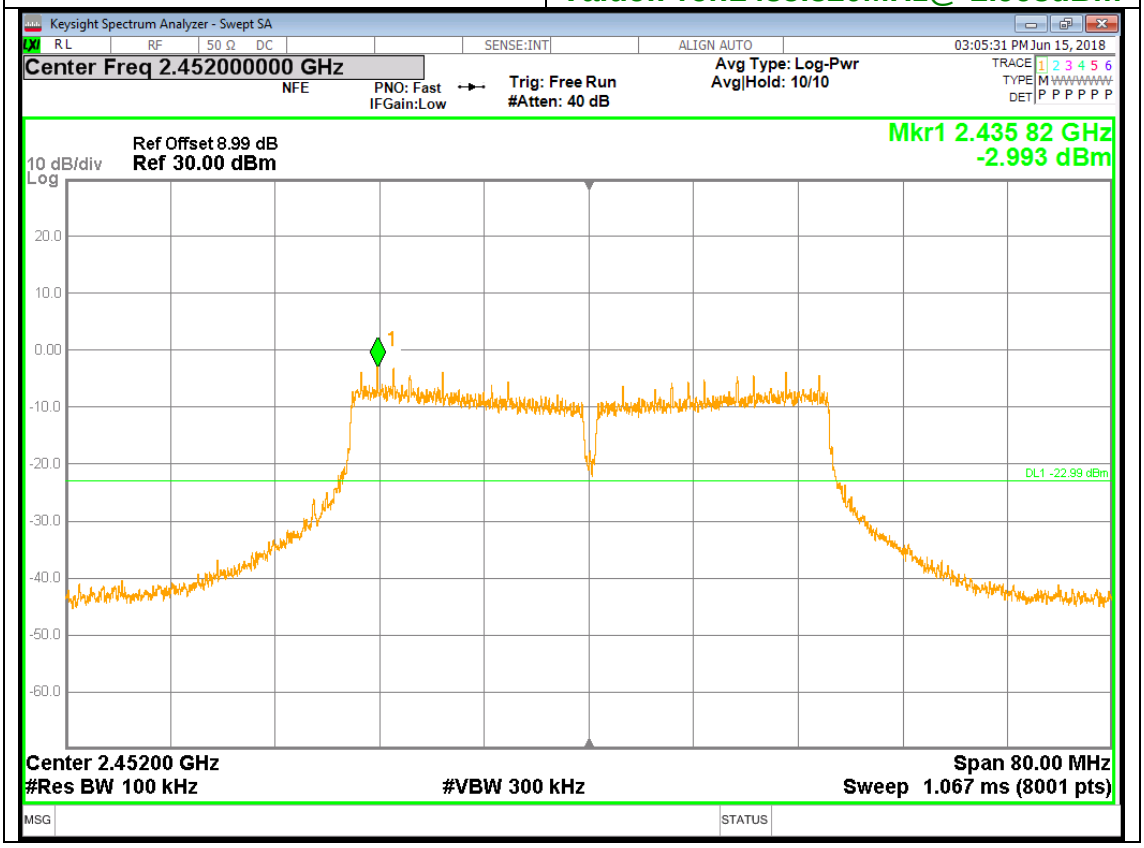
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 0
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25982.000MHz@ -43.994 dBm**



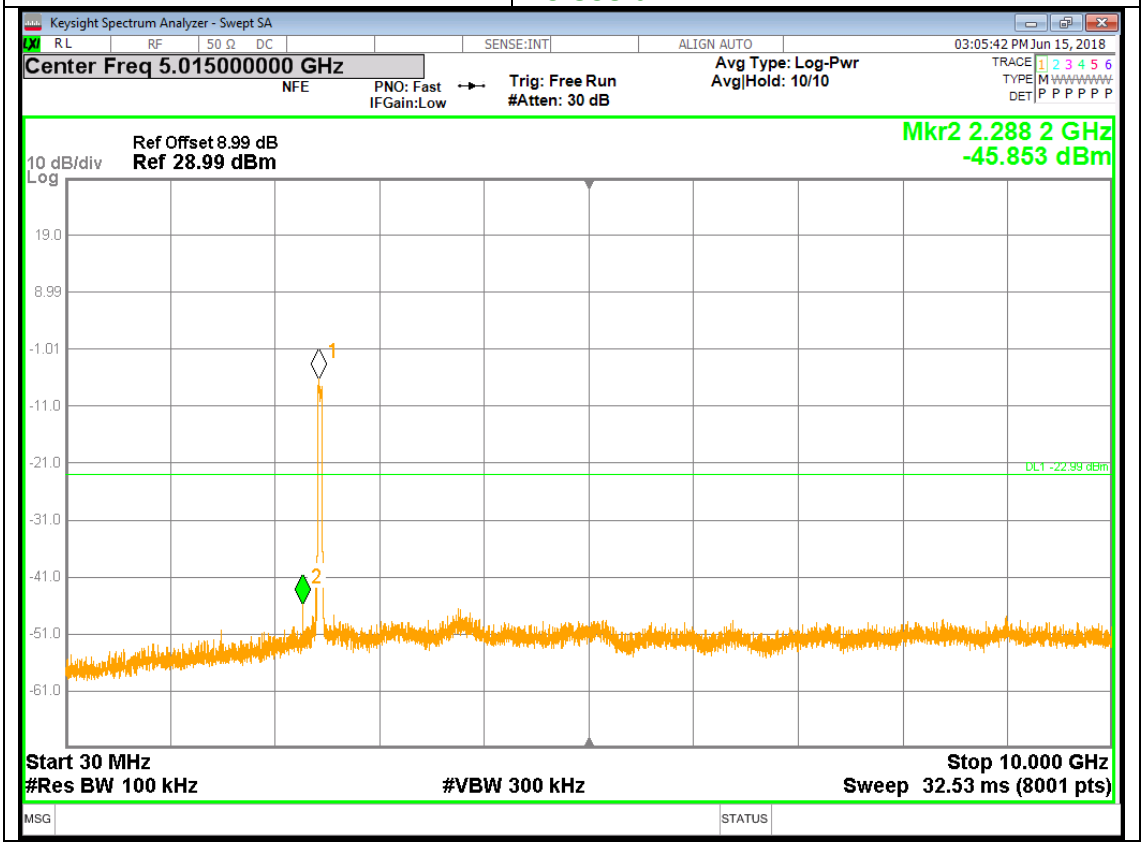
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-2.951dBm;Max:2483.813MHz@-40.579dBm37.628dbc**



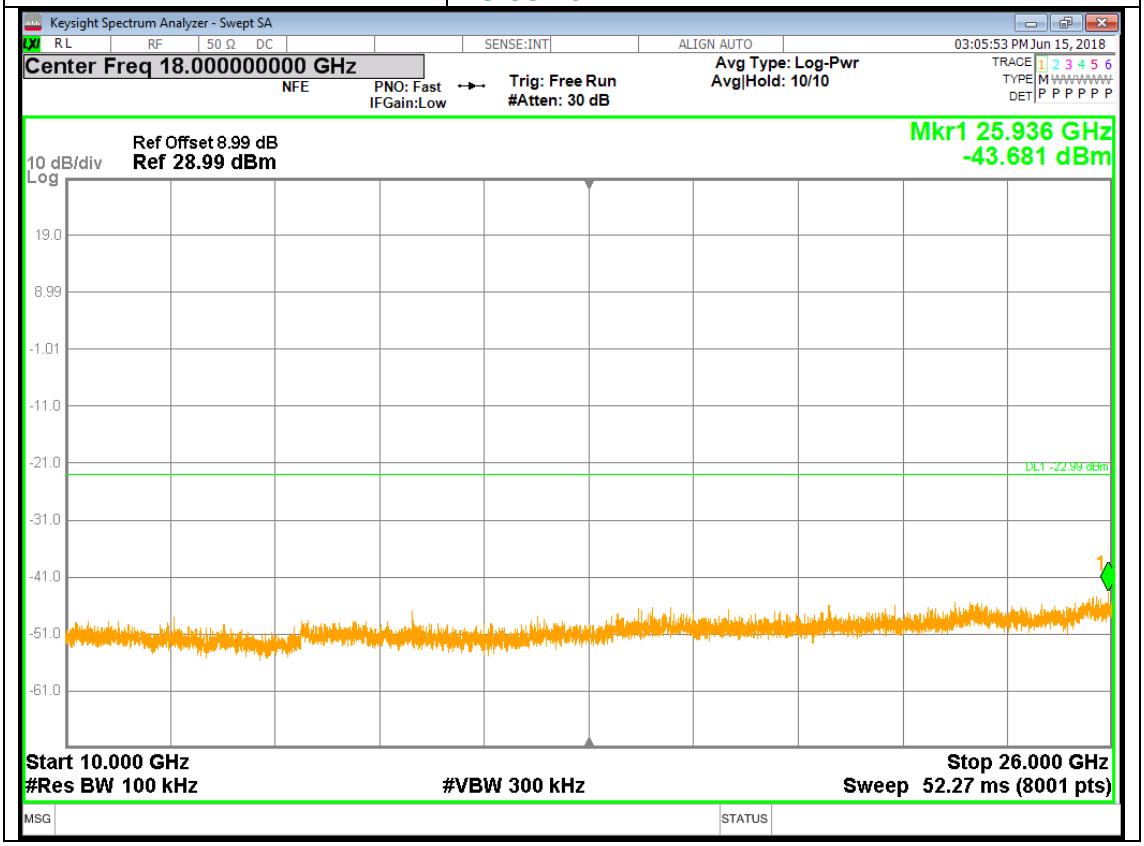
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2435.820MHz@-2.993dBm**



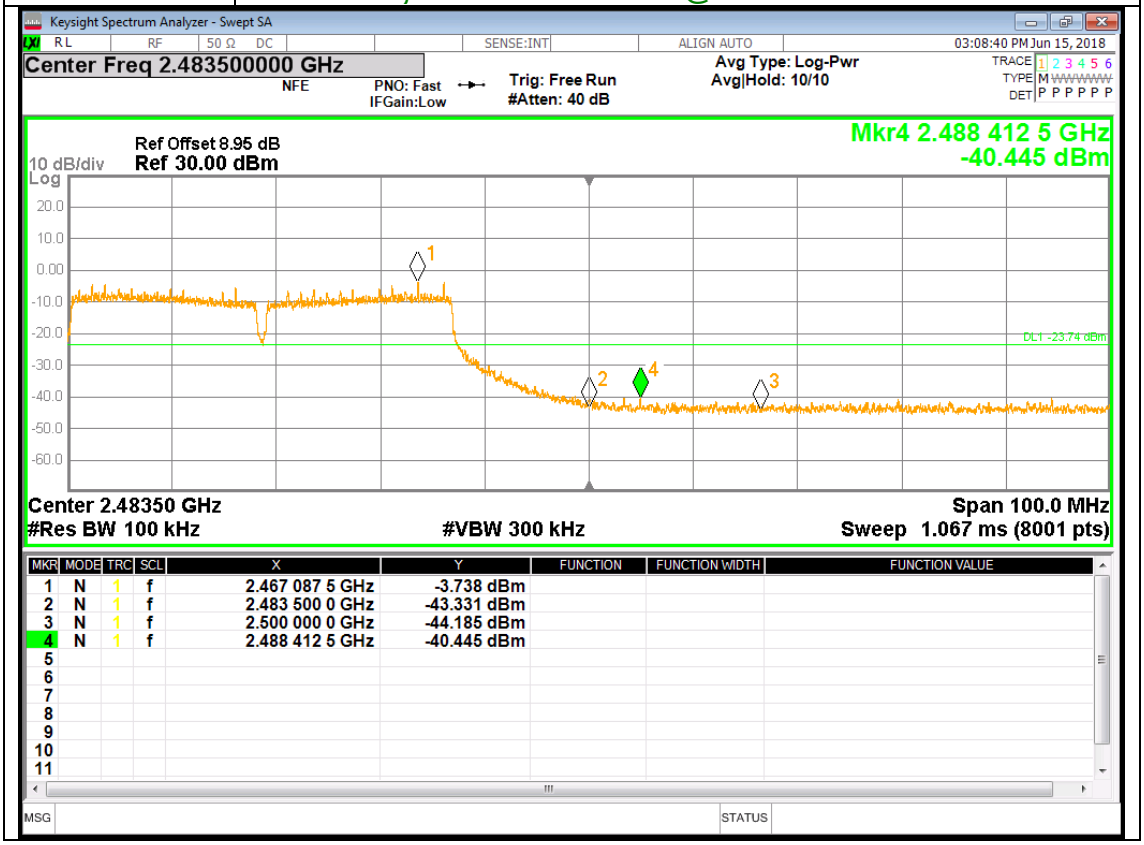
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;2288.205MHz@-45.853 dBm**



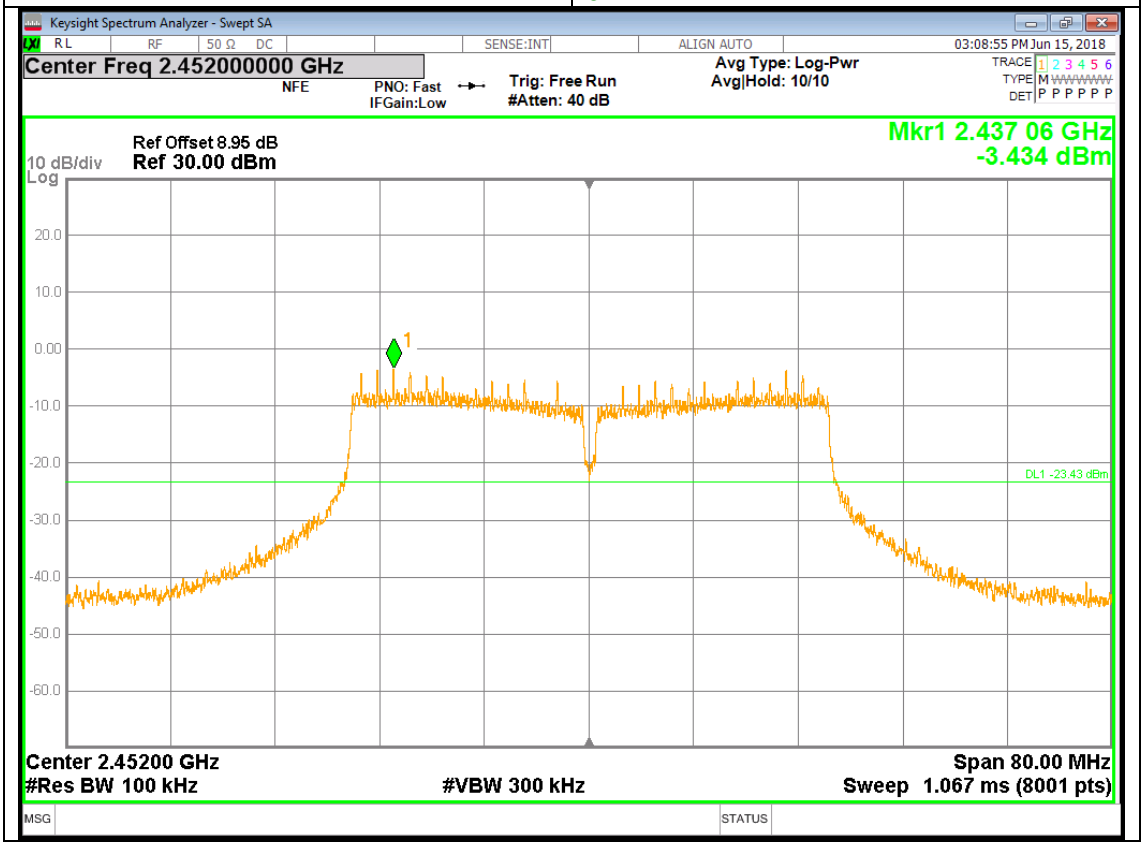
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 1
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25936.000MHz@-43.681 dBm**



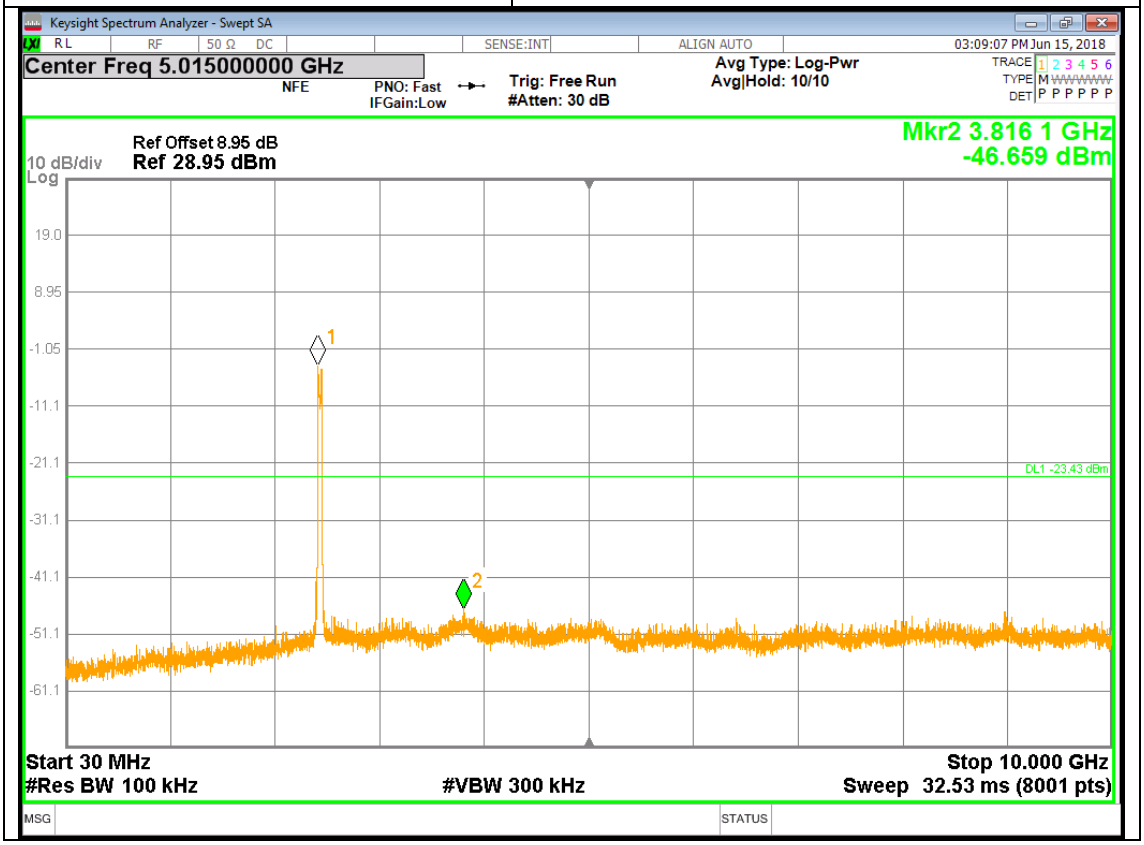
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-3.738dBm;Max:2488.413MHz@-40.445dBm36.707dbc**



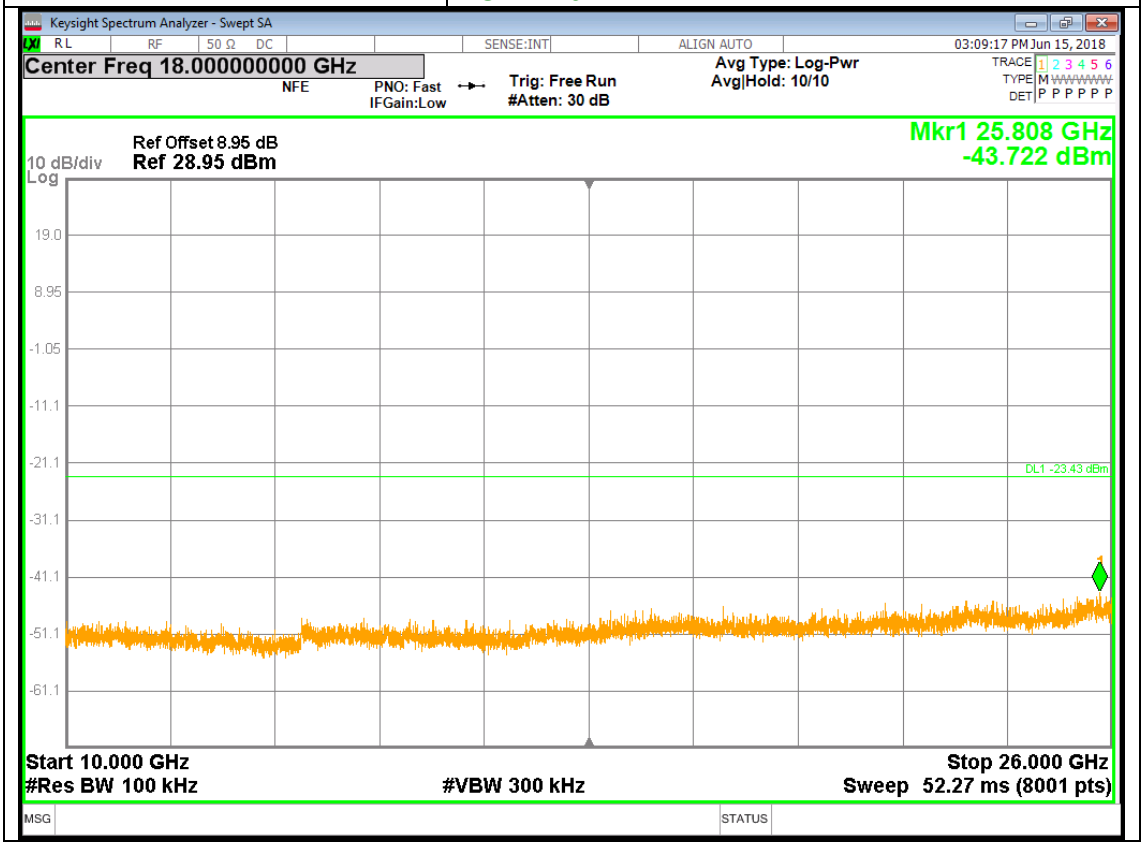
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2437.060MHz@-3.434 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3816.108MHz@-46.659 dBm**



Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant 2
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25808.000MHz@-43.722 dBm**



Note: All transmission modes and antennas were tested, but only the worst data was recorded in the report.

8. RADIATED TEST RESULTS

LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

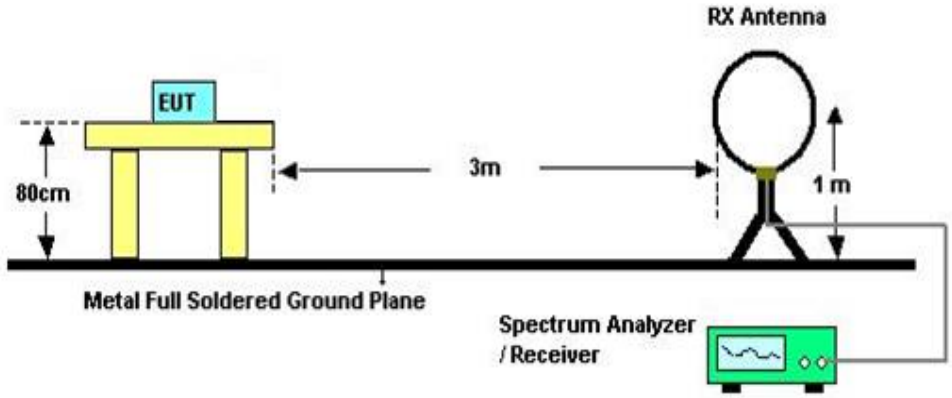
Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

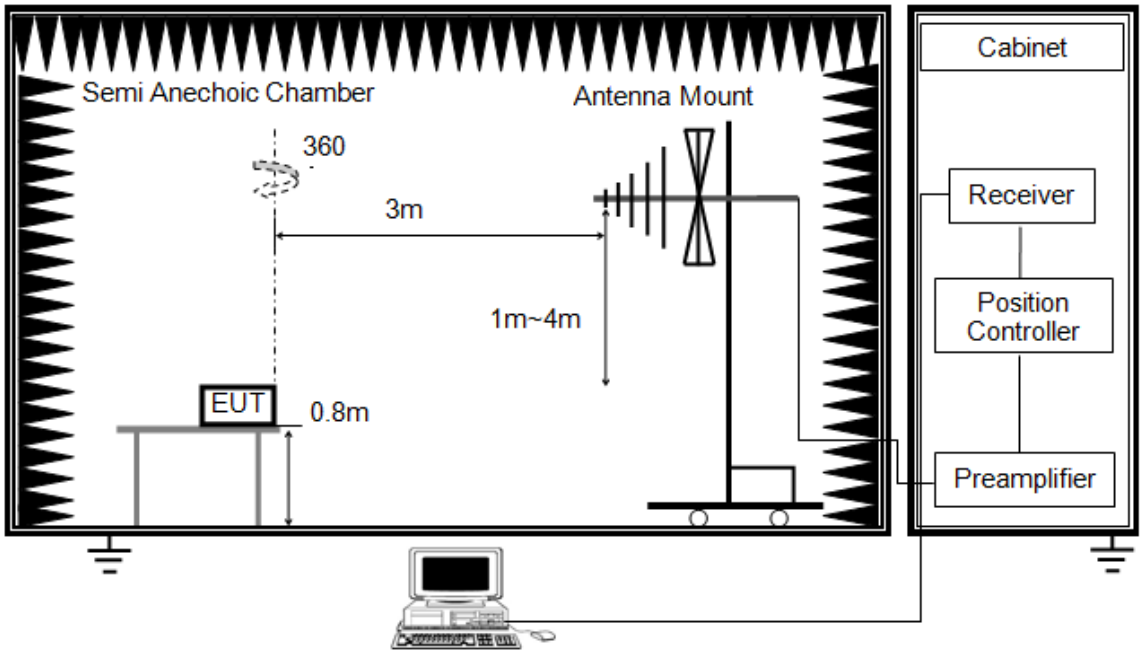
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

Below 1G



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

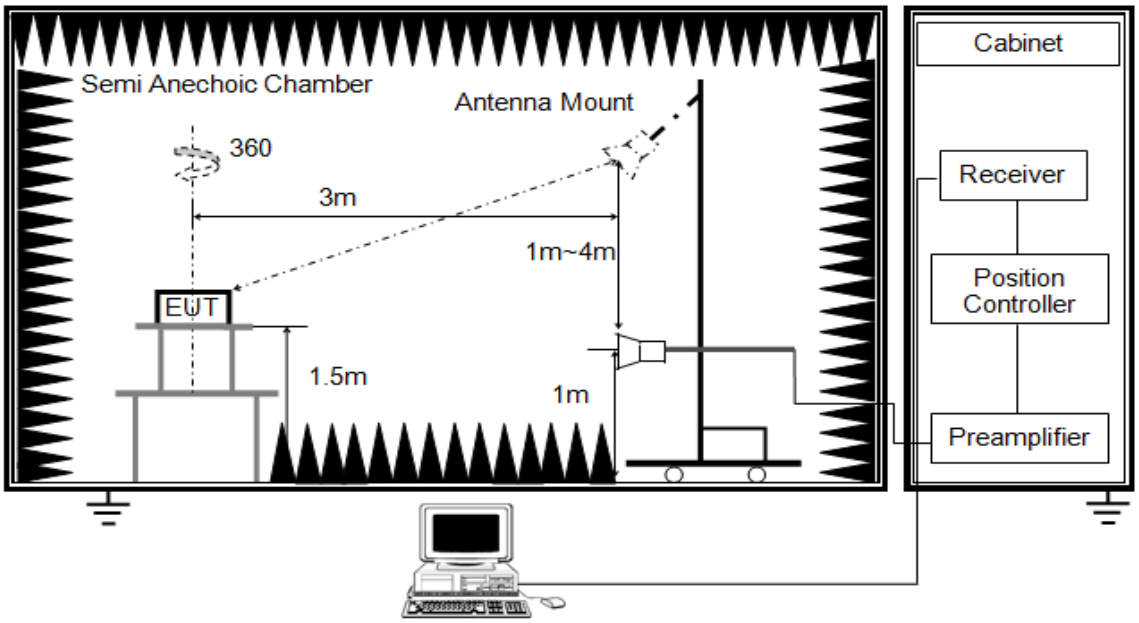
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

6. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)

ABOVE 1G



The setting of the spectrum analyser

RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

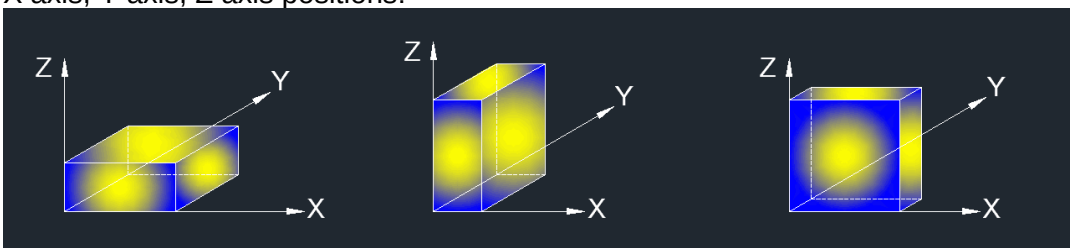
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector. For the Duty Cycle and Correction Factor please refer to clause 7.1.ON TIME AND DUTY CYCLE. If the EUT is configured to transmit with D ≥ 98%, then set VBW ≤ RBW / 100, but not less than 10 Hz. If the EUT D is < 98%, then set

VBW ≥ 1 / T.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y axis, Z axis positions:



Note1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (x axis) data recorded in the report.
Note2:For the radiation test results,SISO & MIMO mode has been tested, the report only shows the worst case data, SISO mode is worse case for 11b, MIMO mode is worst case for 11g & 11n20 & 11n40.

Note3:The 2.4GHz and 5GHz simultaneous transmission modes have been evaluated, the test results have not changed even worse for the independent transmission mode, and no spurious emissions are caused by the simultaneous operation of two devices.

Note4:. The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band meets the requirement attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc), for the test results, please refer to the 7.5 chapter of the report.

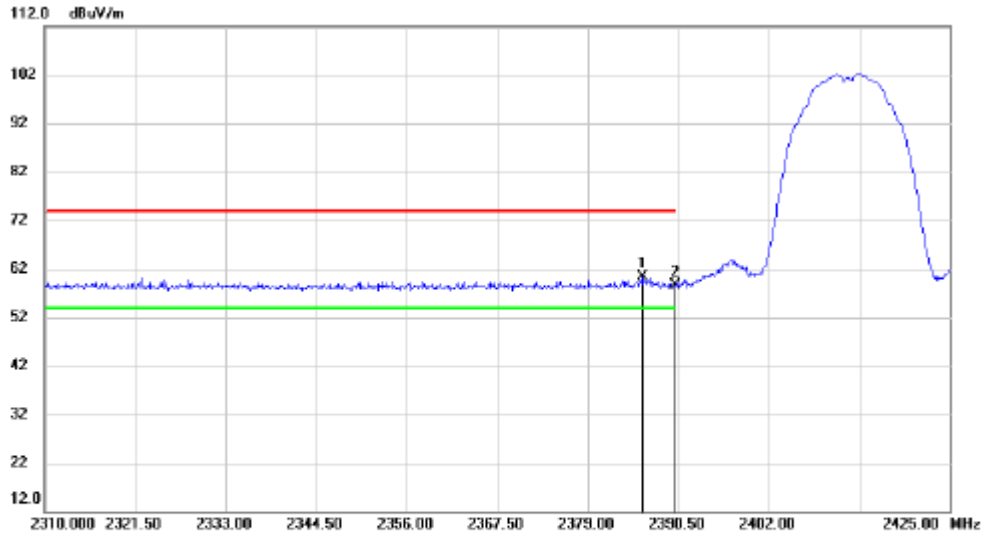
8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

SISO Ant 0 (WORST-CASE CONFIGURATION)

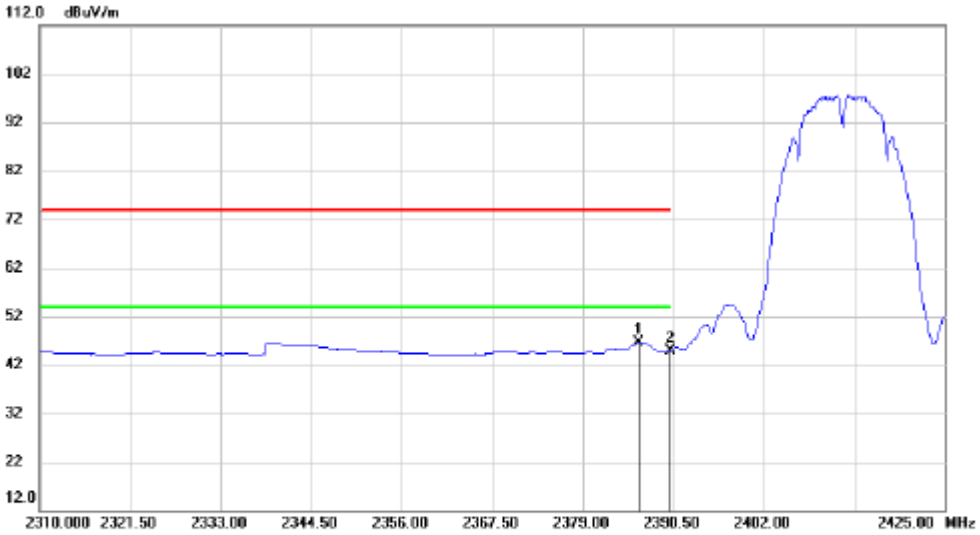
RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2386.015	27.12	33.17	60.29	74.00	-13.71	peak			
2		2390.000	25.55	33.14	58.69	74.00	-15.31	peak			

AVG

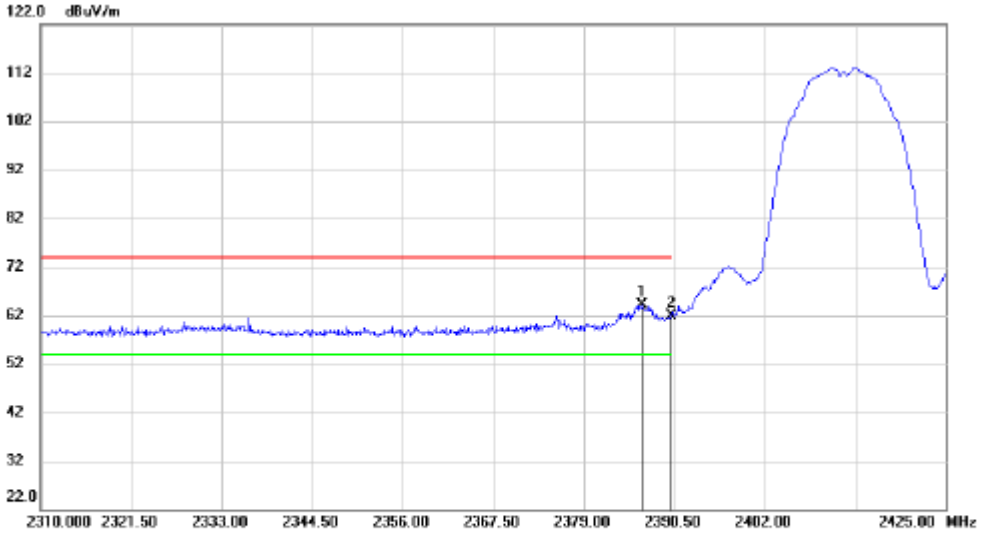


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2386.130	13.35	33.17	46.52	54.00	-7.48	AVG			
2		2390.000	11.76	33.14	44.90	54.00	-9.10	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10Hz.
5. For transmit duration, please refer to clause 7.1.

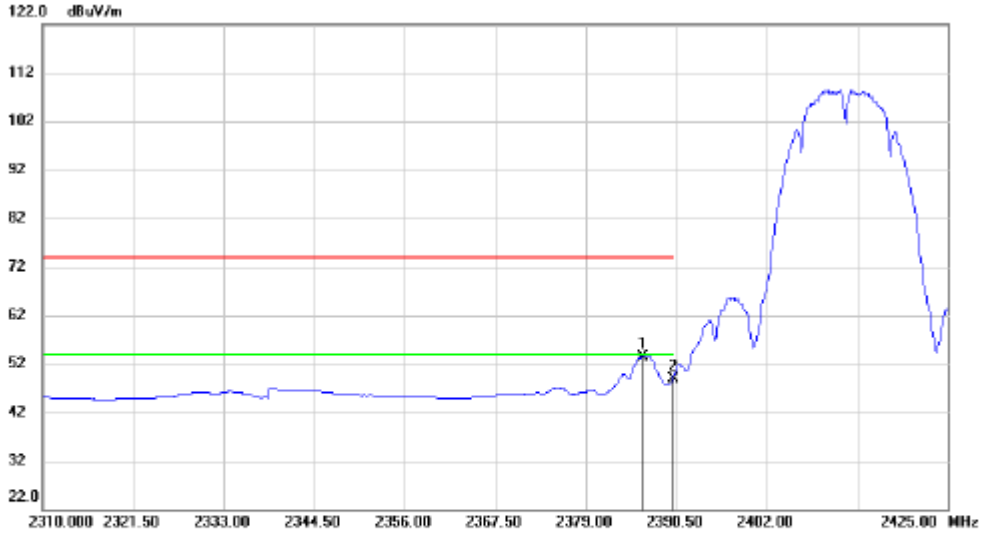
RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2386.360	30.76	33.27	64.03	74.00	-9.97	peak			
2		2390.000	28.63	33.24	61.87	74.00	-12.13	peak			

AVG

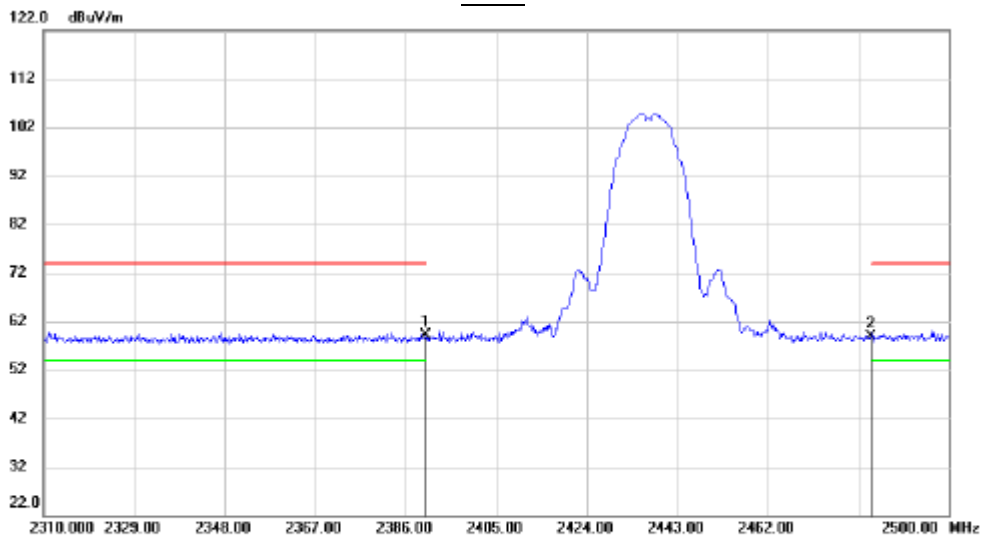


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2386.245	20.14	33.27	53.41	54.00	-0.59	AVG			
2		2390.000	15.53	33.24	48.77	54.00	-5.23	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10Hz.
5. For transmit duration, please refer to clause 7.1.

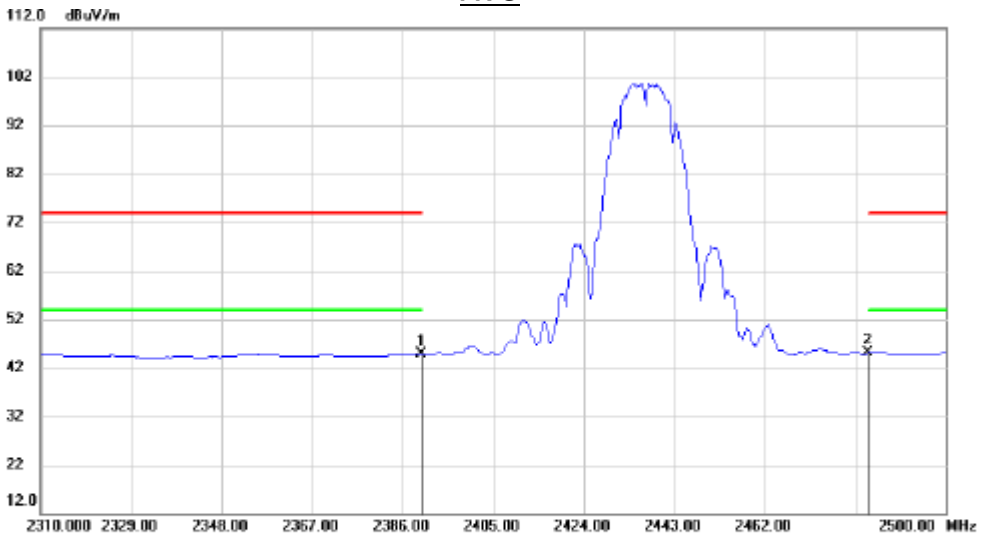
RESTRICTED BANDEDGE (CHANNEL6, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	26.00	33.14	59.14	74.00	-14.86	peak			
2		2483.500	26.20	32.78	58.98	74.00	-15.02	peak			

AVG

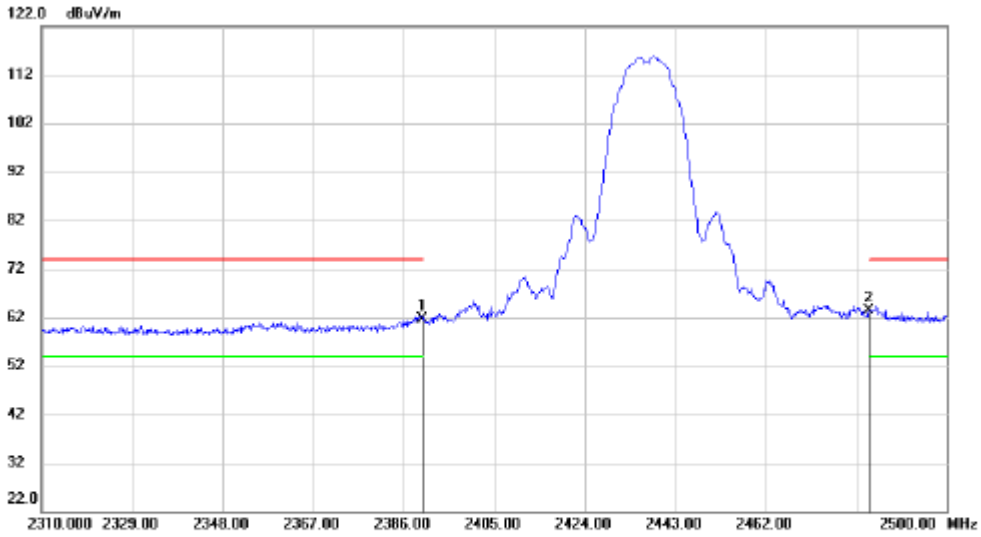


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	11.65	33.14	44.79	54.00	-9.21	AVG			
2	*	2483.500	12.27	32.78	45.05	54.00	-8.95	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10Hz.
5. For transmit duration, please refer to clause 7.1.

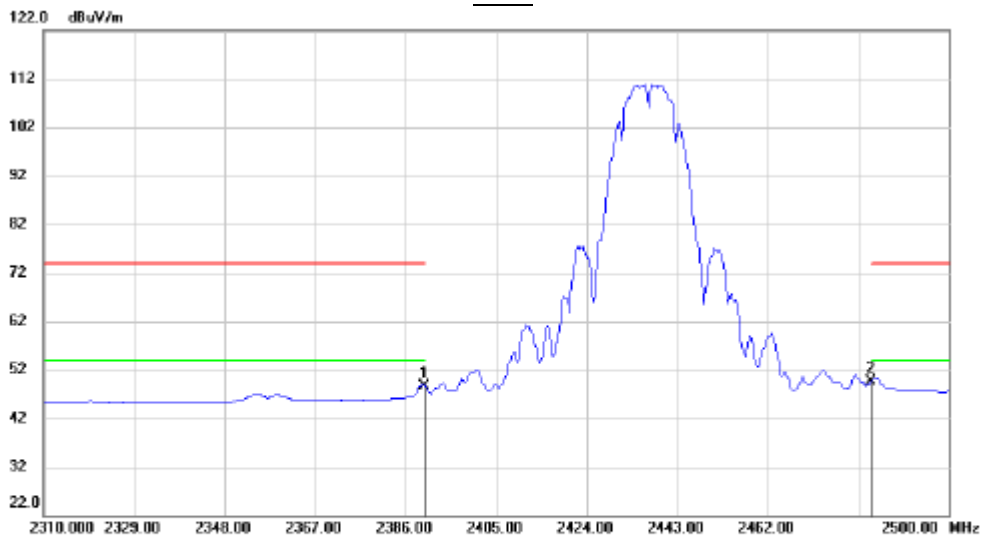
RESTRICTED BANDEDGE (CHANNEL6, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	28.51	33.24	61.75	74.00	-12.25	peak			
2	*	2483.500	30.48	32.88	63.36	74.00	-10.64	peak			

AVG

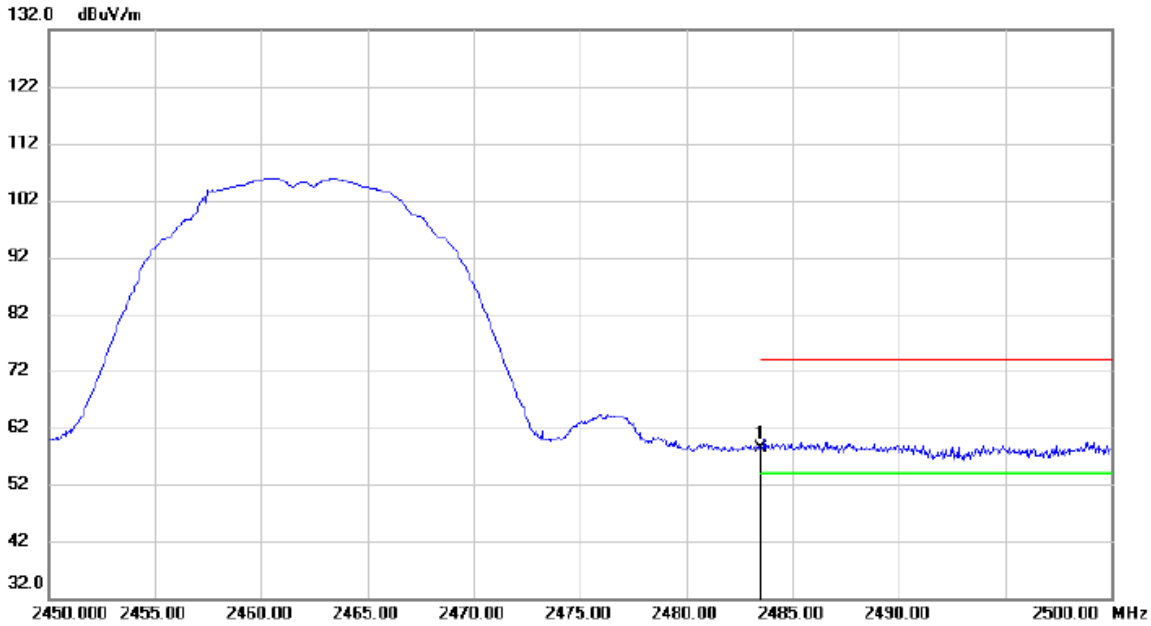


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2390.000	15.35	33.24	48.59	54.00	-5.41	AVG			
2	*	2483.500	16.84	32.88	49.72	54.00	-4.28	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=10Hz.
5. For transmit duration, please refer to clause 7.1.

RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	25.54	32.88	58.42	74.00	-15.58	peak			