7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) Subpart C RSS-247 ISSUE 2		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

Notes：display line is placed at -20dBc but all emissions outside of the band meet the -30dBc limit.

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

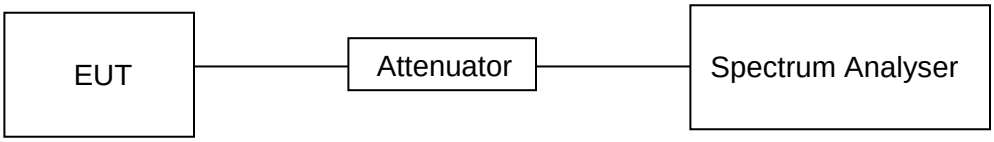
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level**.**

TEST SETUP



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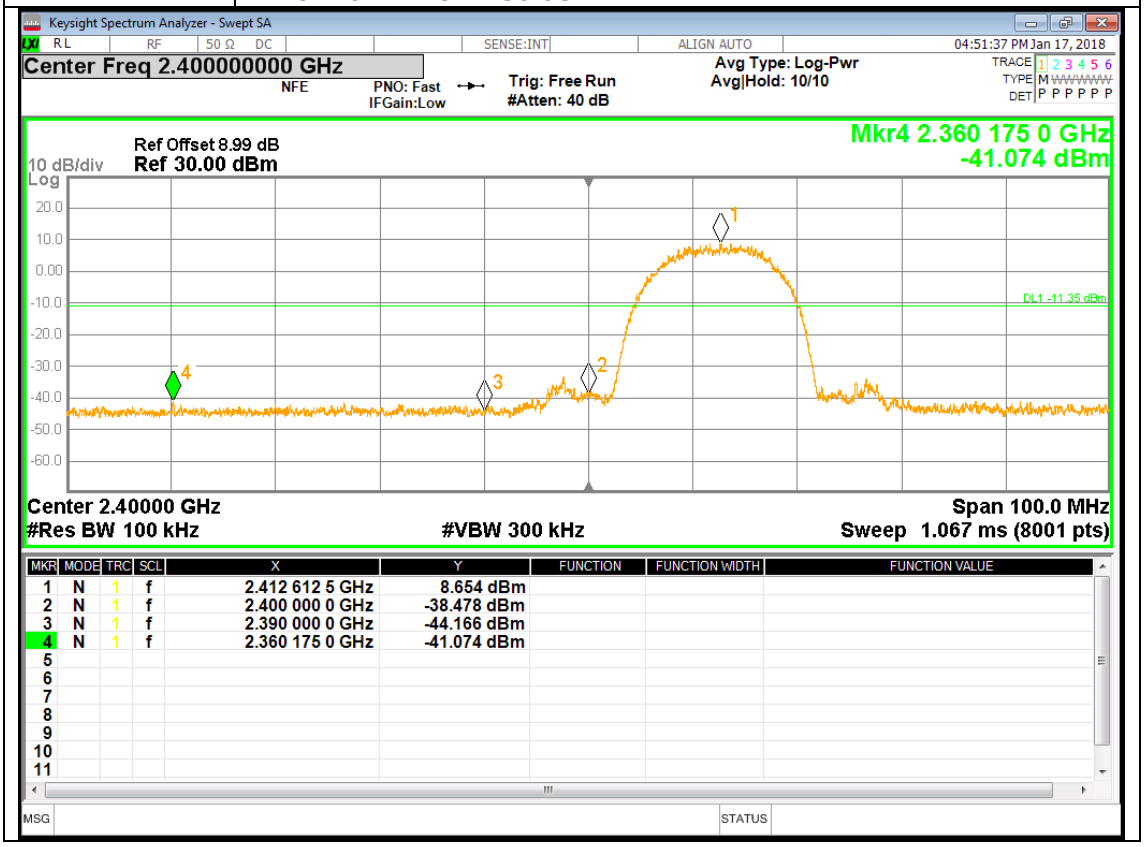
RESULTS

Note: Output power was set to the maximum power per chain (SISO mode power) but with all chains operating to cover SISO, 2x and 3x modes.

7.5.1. 802.11b 3TX MODE

Low Channel

Test Case: Bandedge Compliance	
Mode: 11B	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:8.654dBm;Max:2360.175MHz@-41.074dBm49.728dbc**



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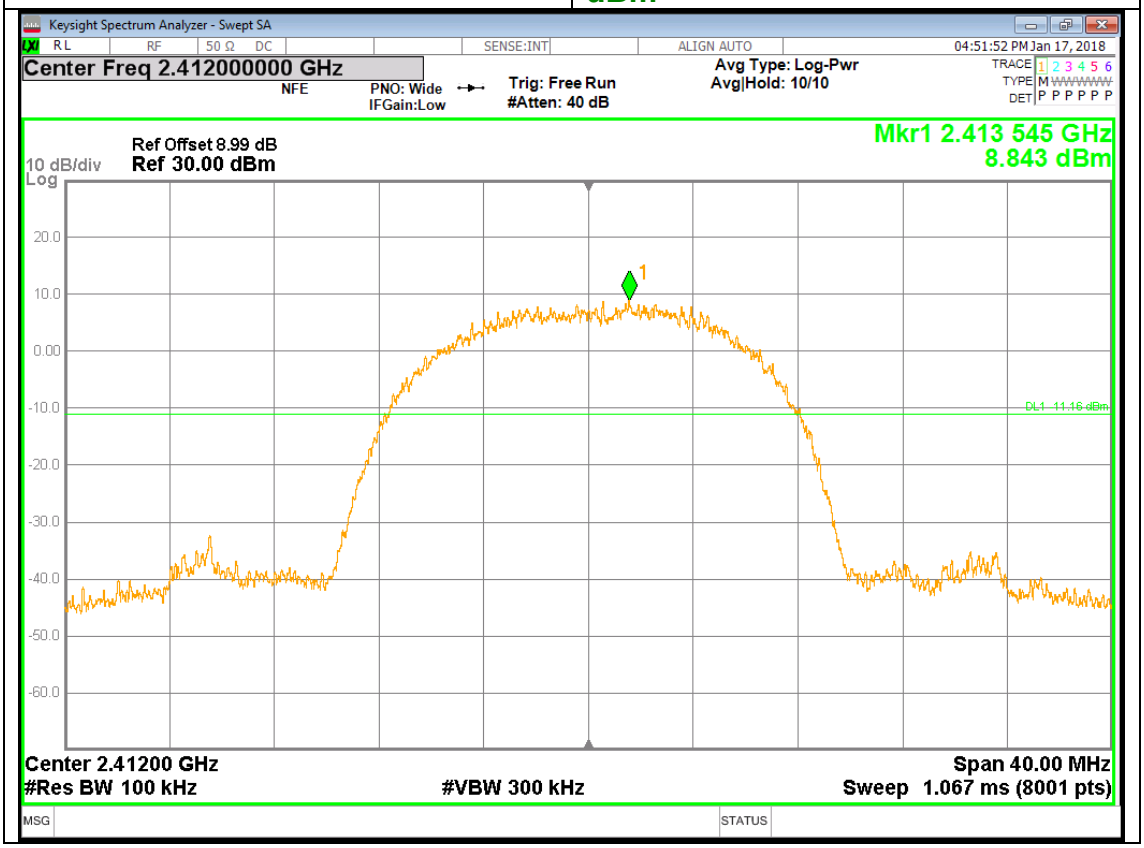
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2413.545MHz@8.843 dBm**



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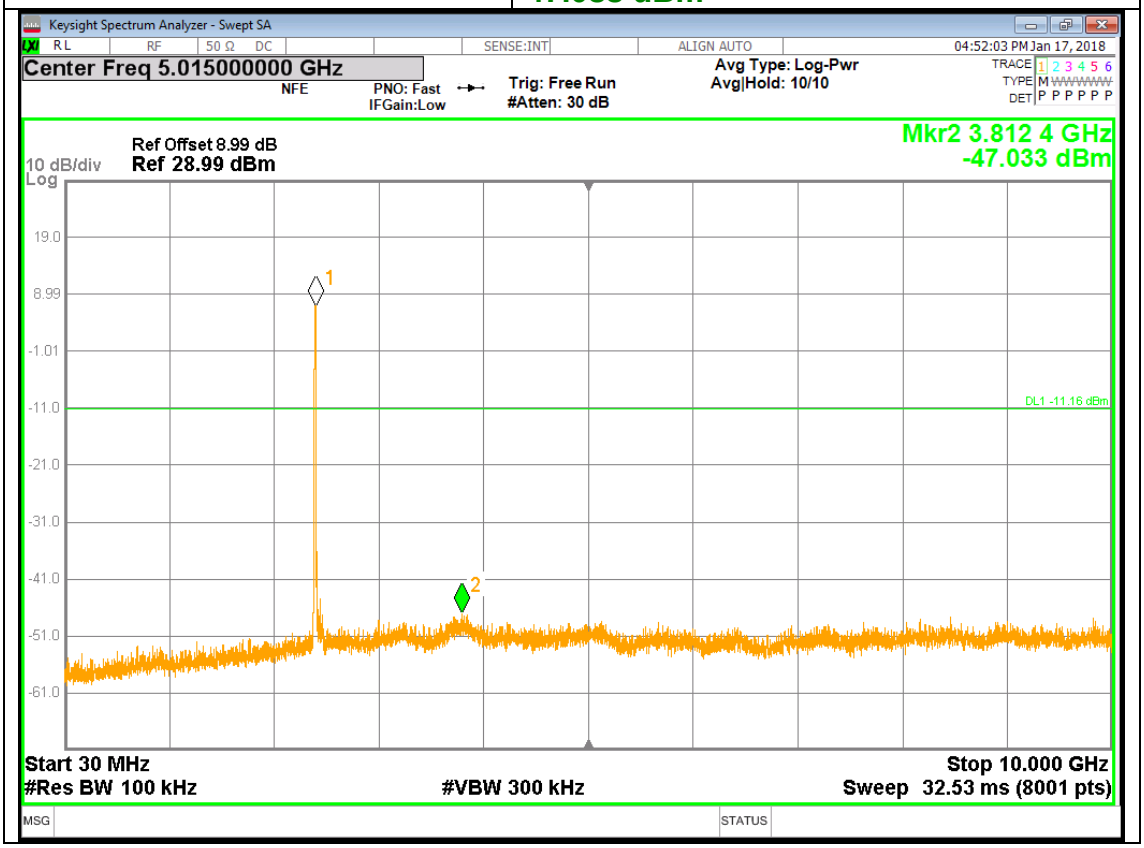
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3812.369MHz@-47.033 dBm**



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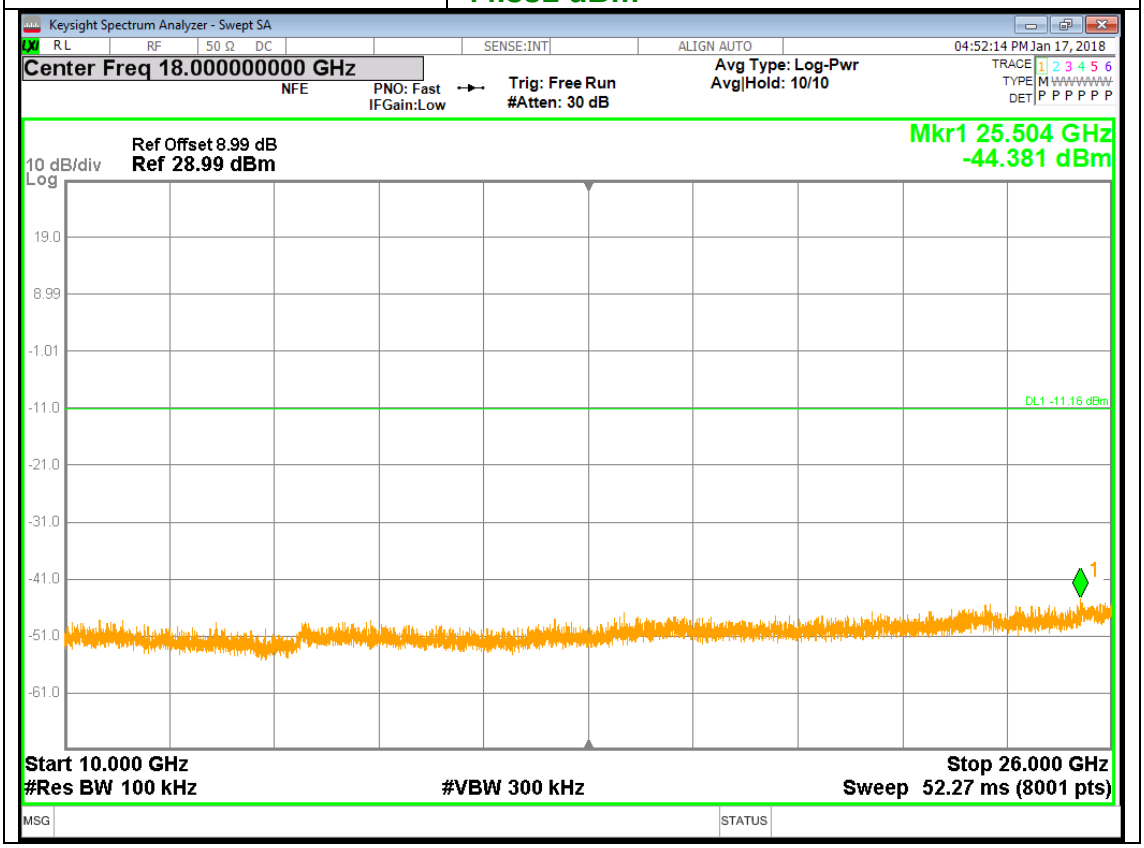
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25504.000MHz@-44.381 dBm**



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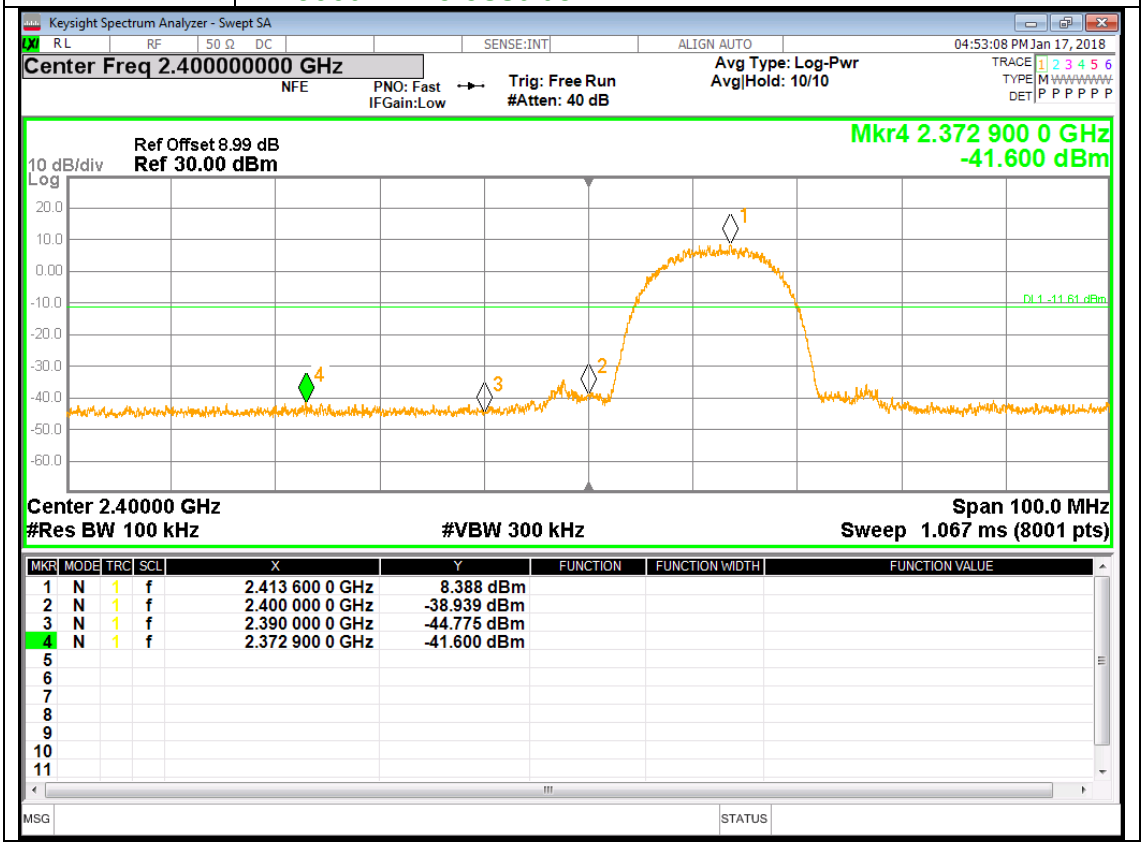
Test Case: Bandedge Compliance	
Mode: 11B	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:8.388dBm;Max:2372.900MHz@-41.600dBm49.988dbc**



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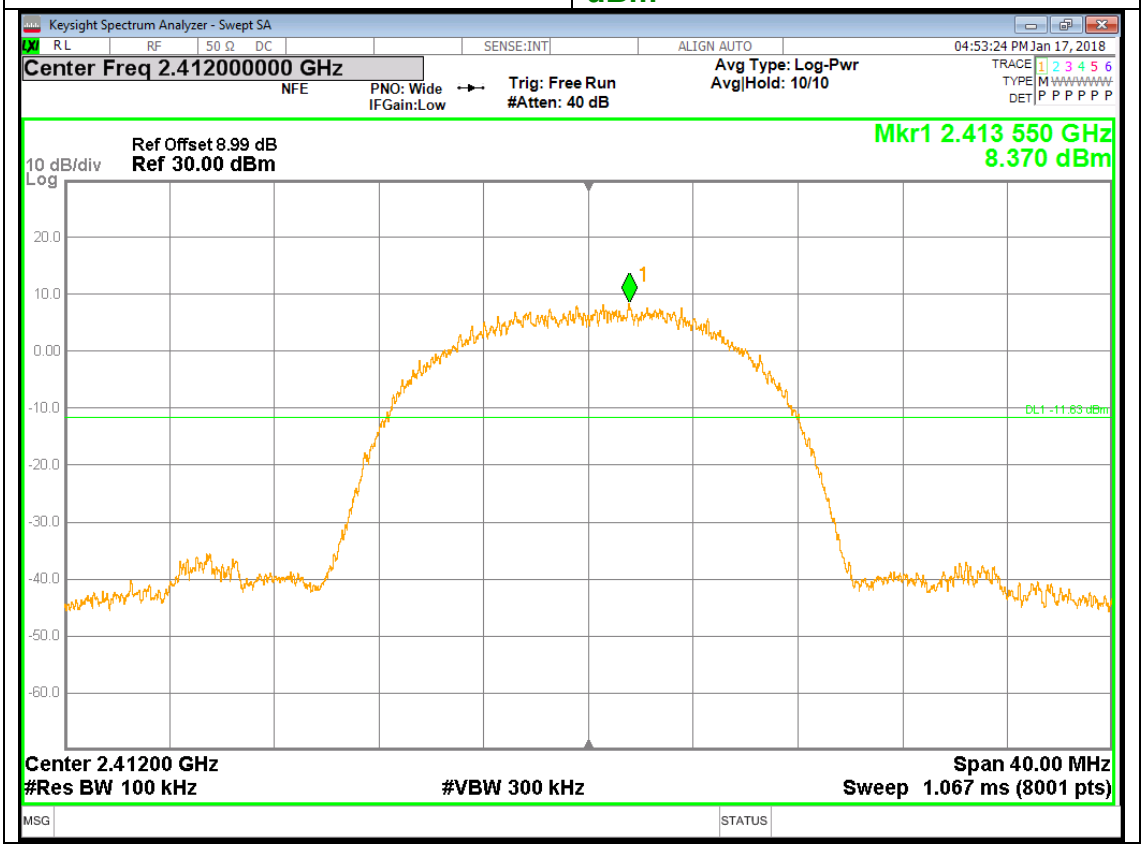
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2413.550MHz@8.370 dBm**



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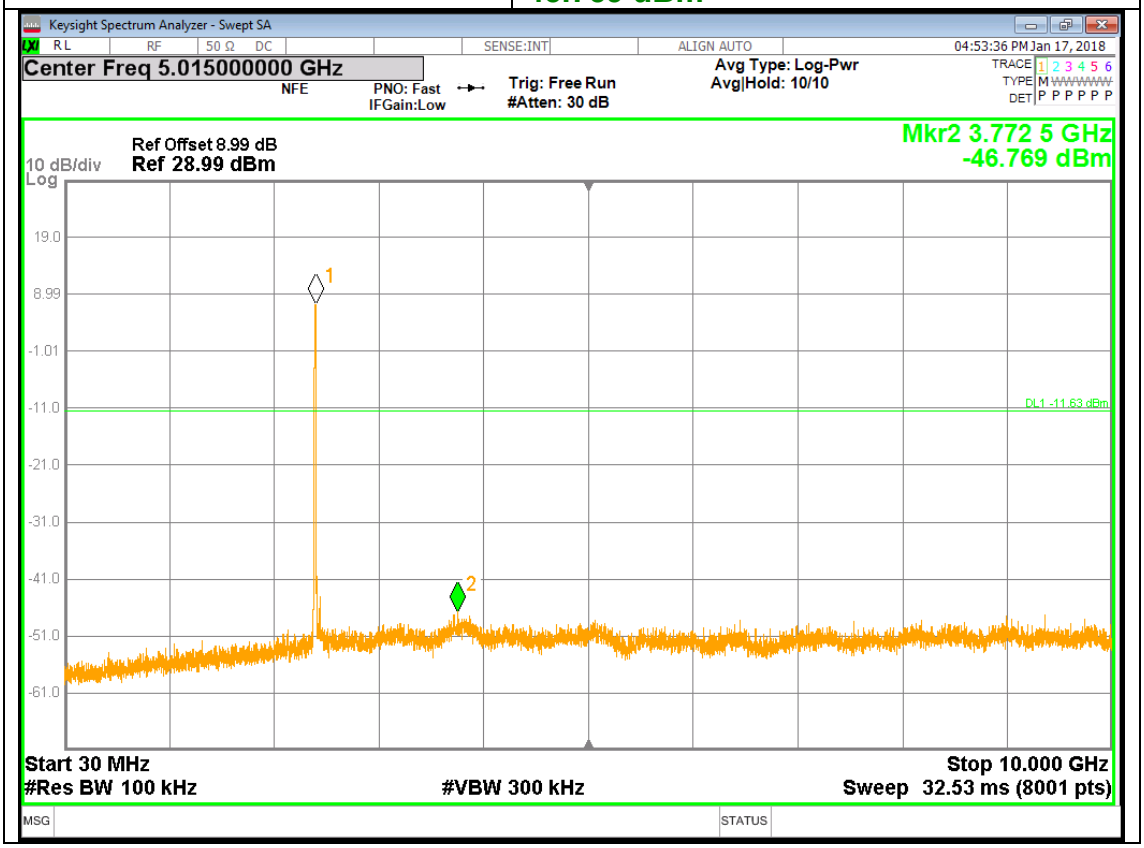
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3772.489MHz@-46.769 dBm**



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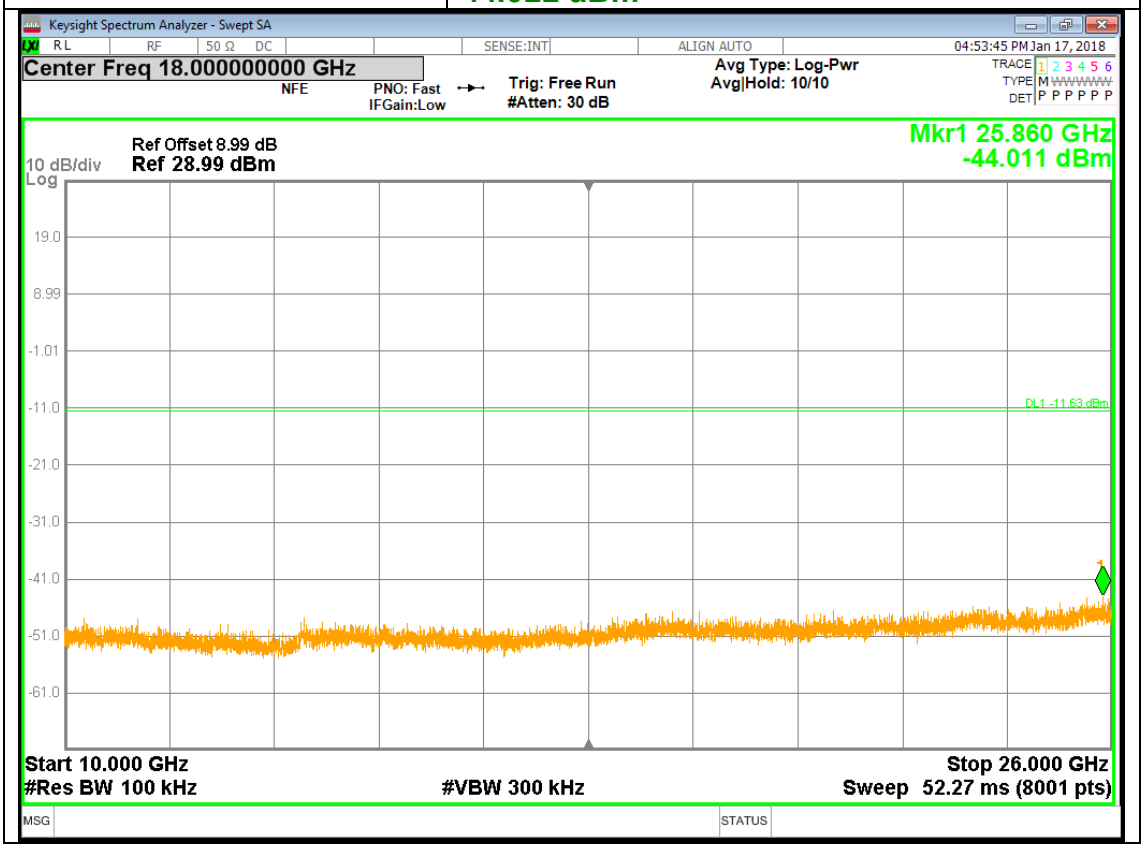
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25860.000MHz@-44.011 dBm**



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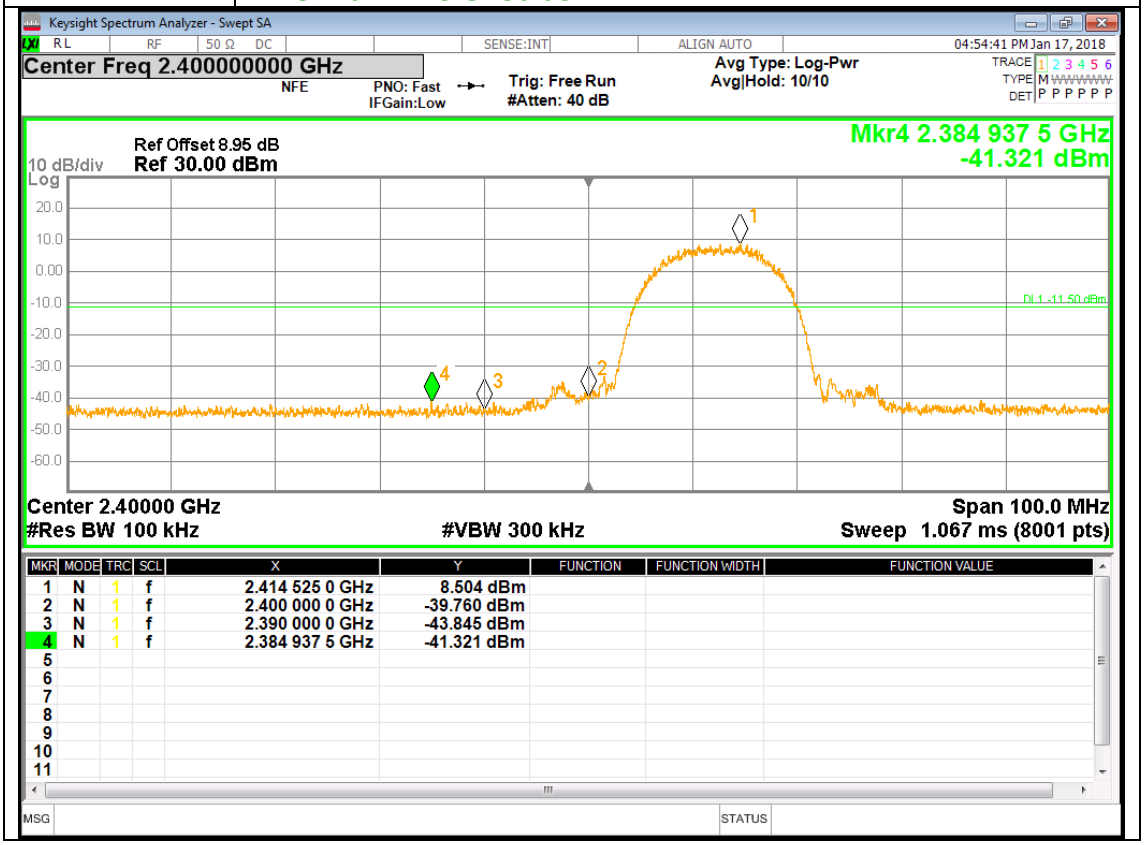
Test Case: Bandedge Compliance	
Mode: 11B	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:8.504dBm;Max:2384.938MHz@-41.321dBm49.825dbc**



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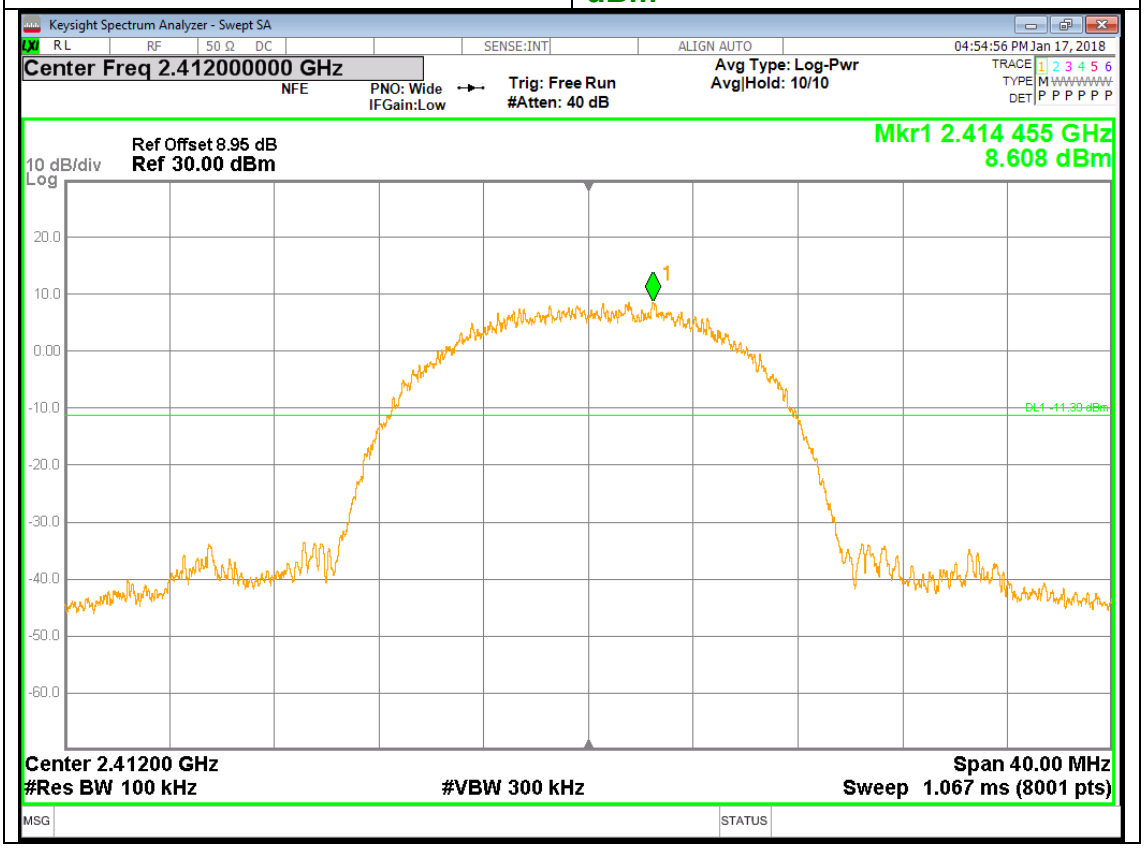
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2414.455MHz@8.608 dBm**



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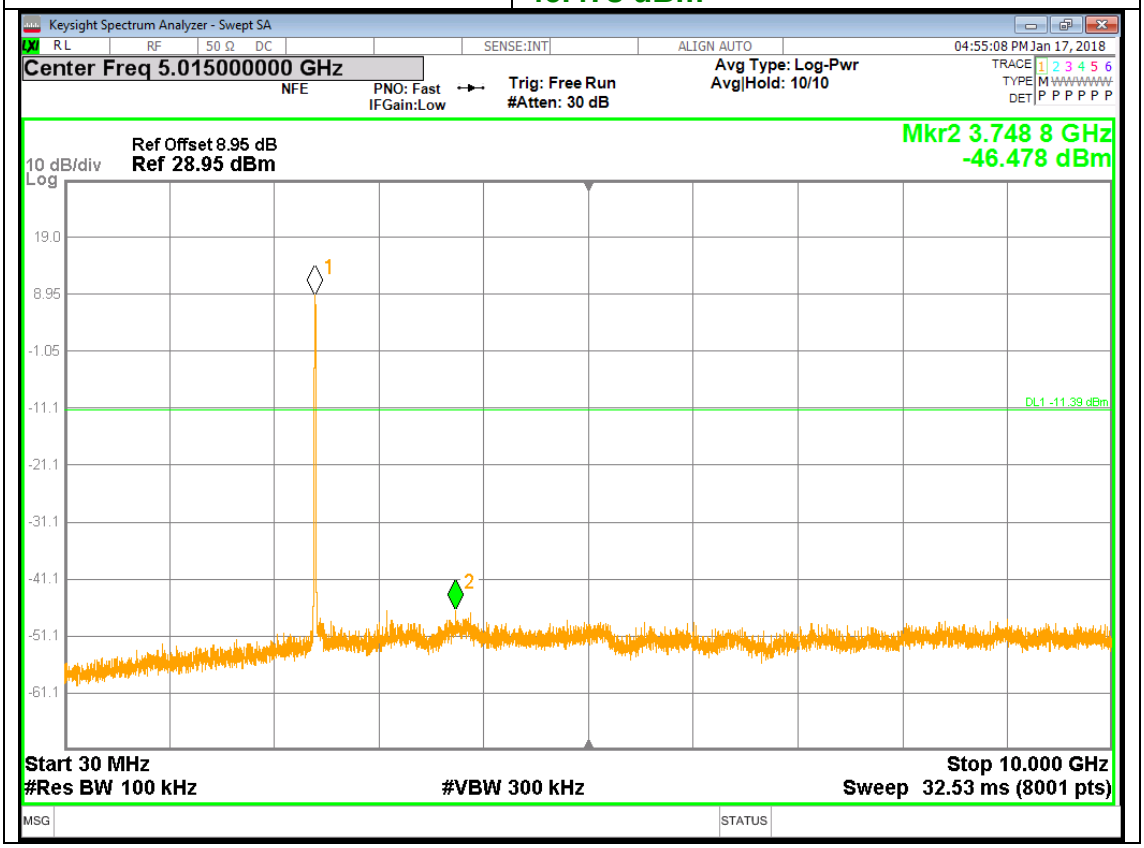
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3748.810MHz@-46.478 dBm**



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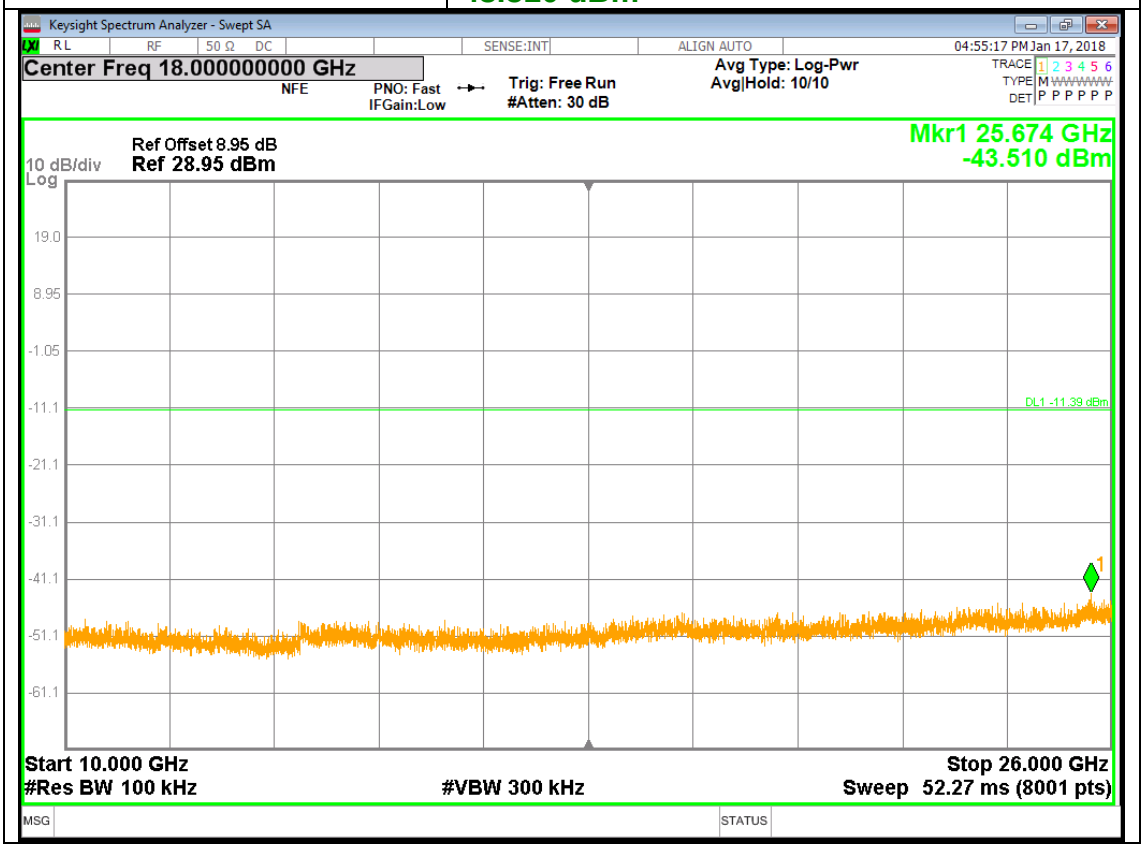
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25674.000MHz@-43.510 dBm**



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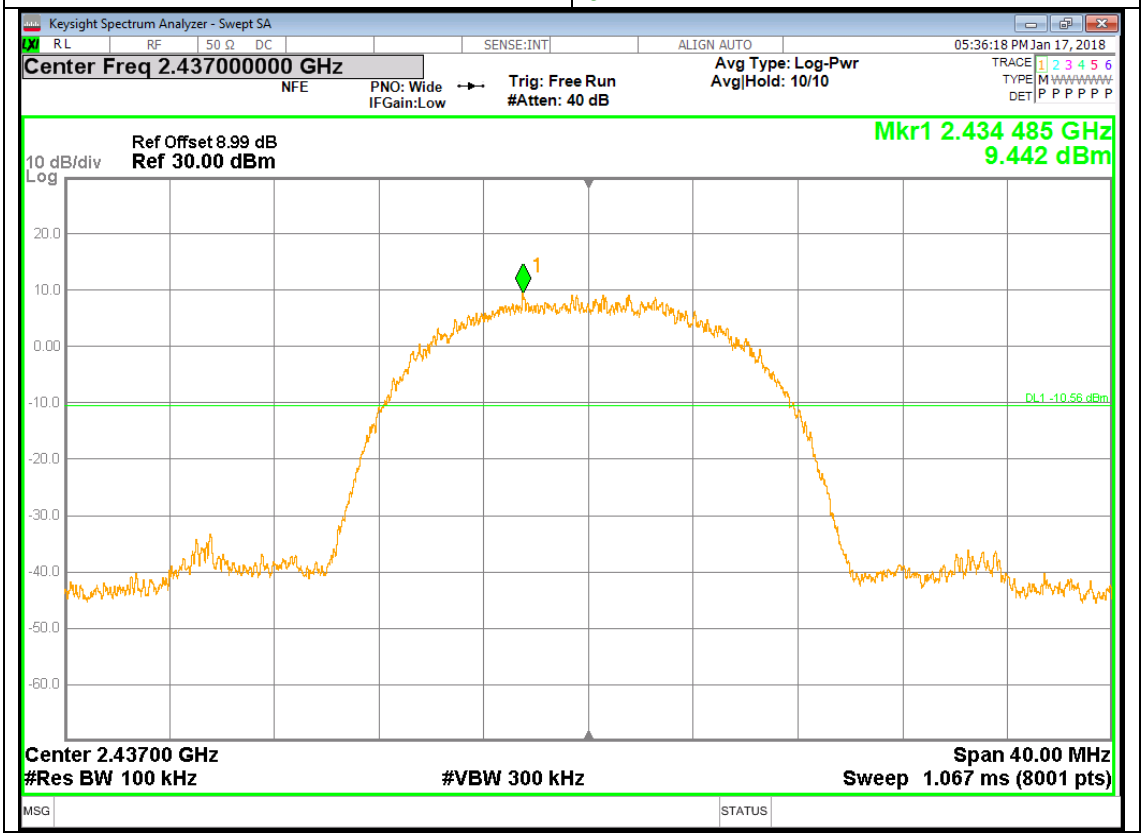
Middle Channel

Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2434.485MHz@9.442 dBm**



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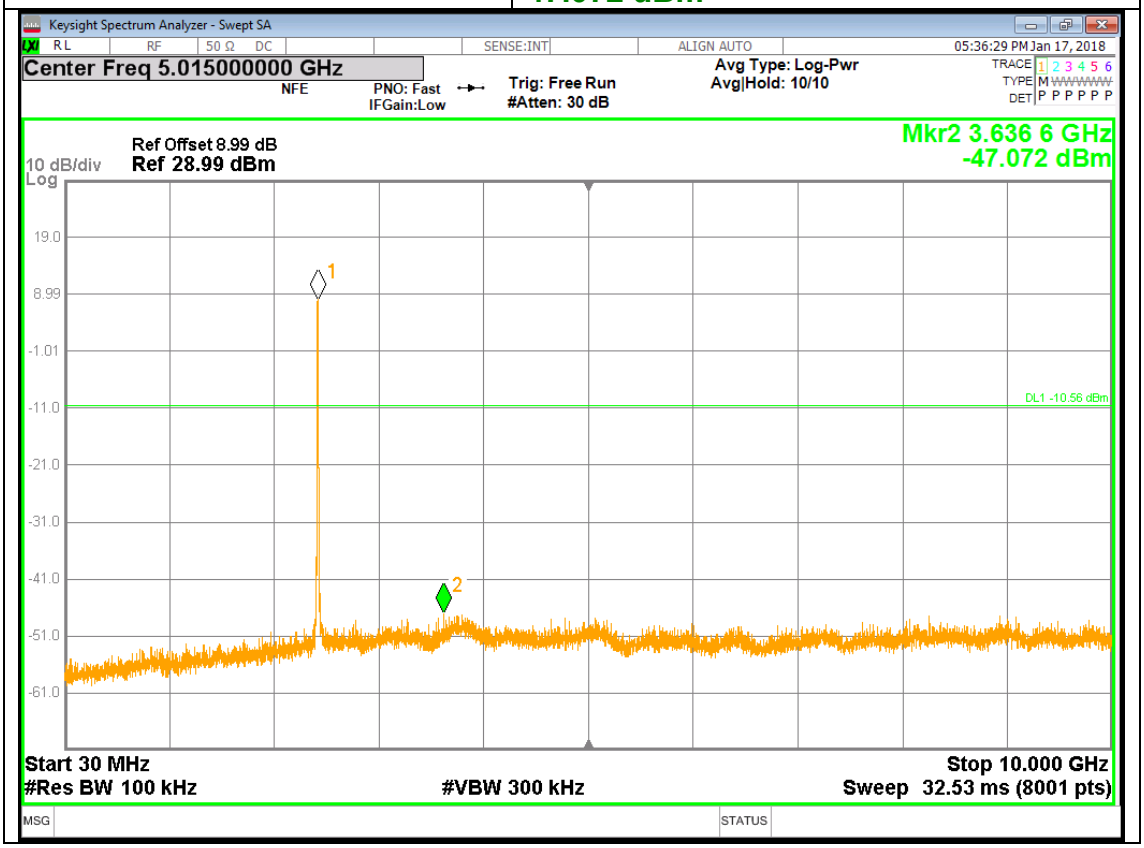
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3636.648MHz@-47.072 dBm**



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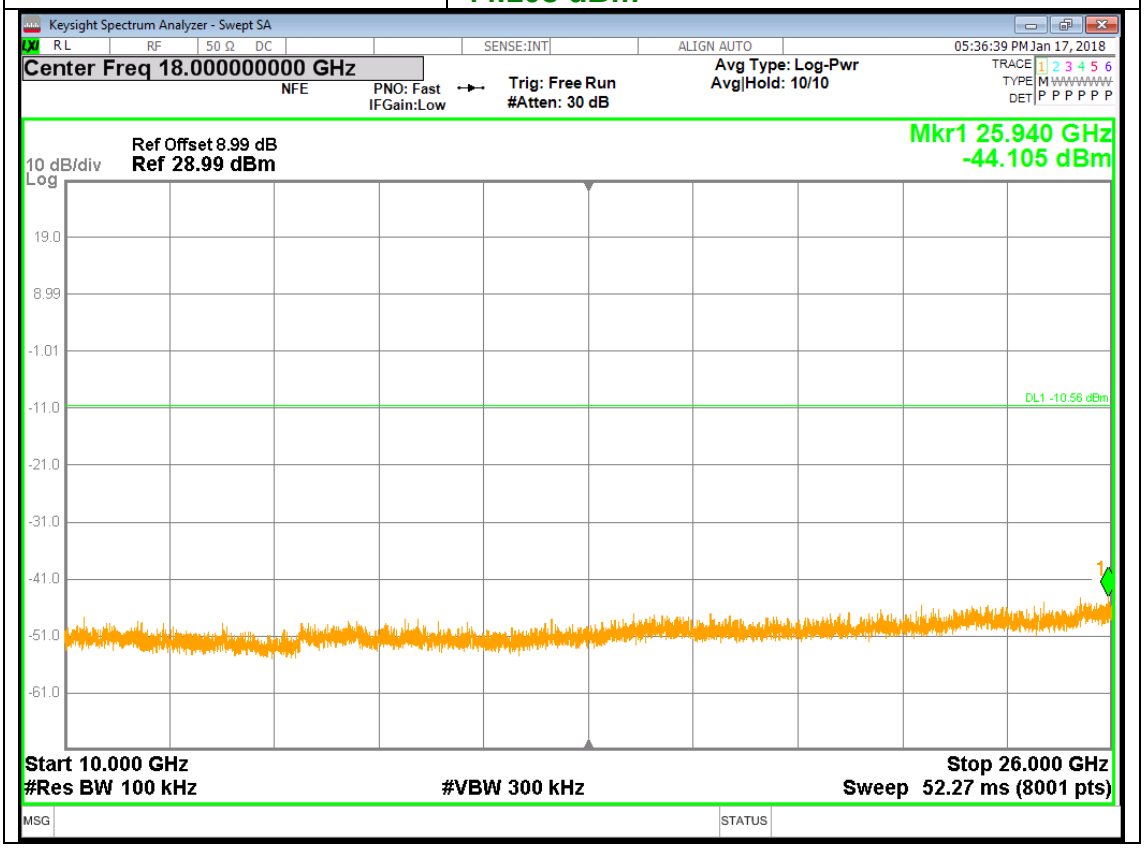
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25940.000MHz@-44.105 dBm**



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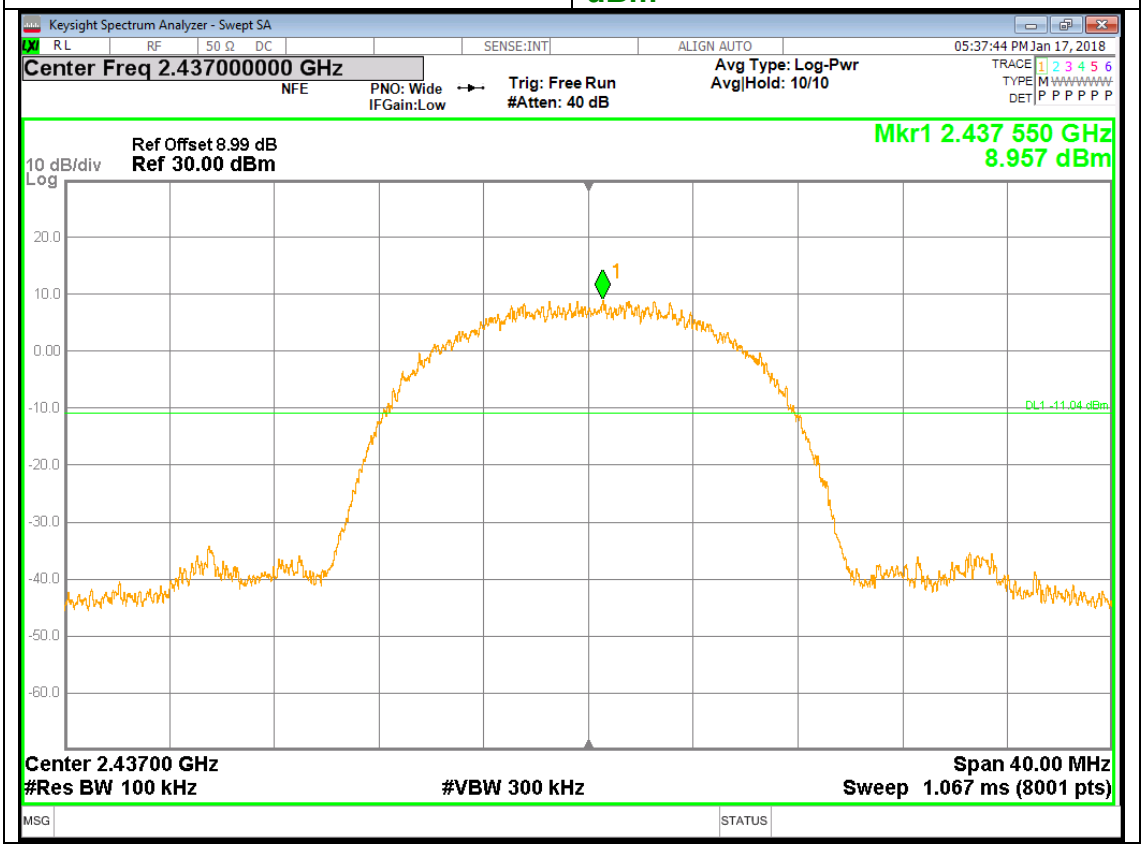
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2437.550MHz@8.957 dBm**



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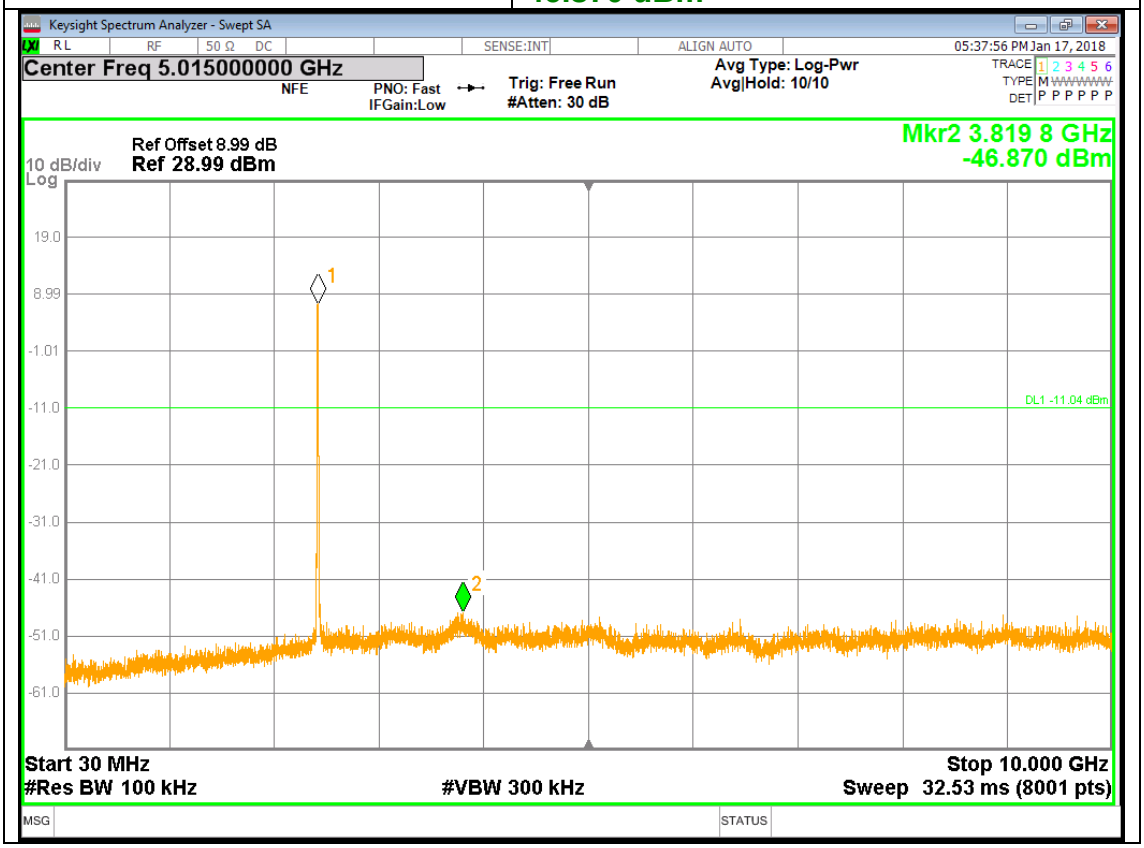
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3819.846MHz@-46.870 dBm**



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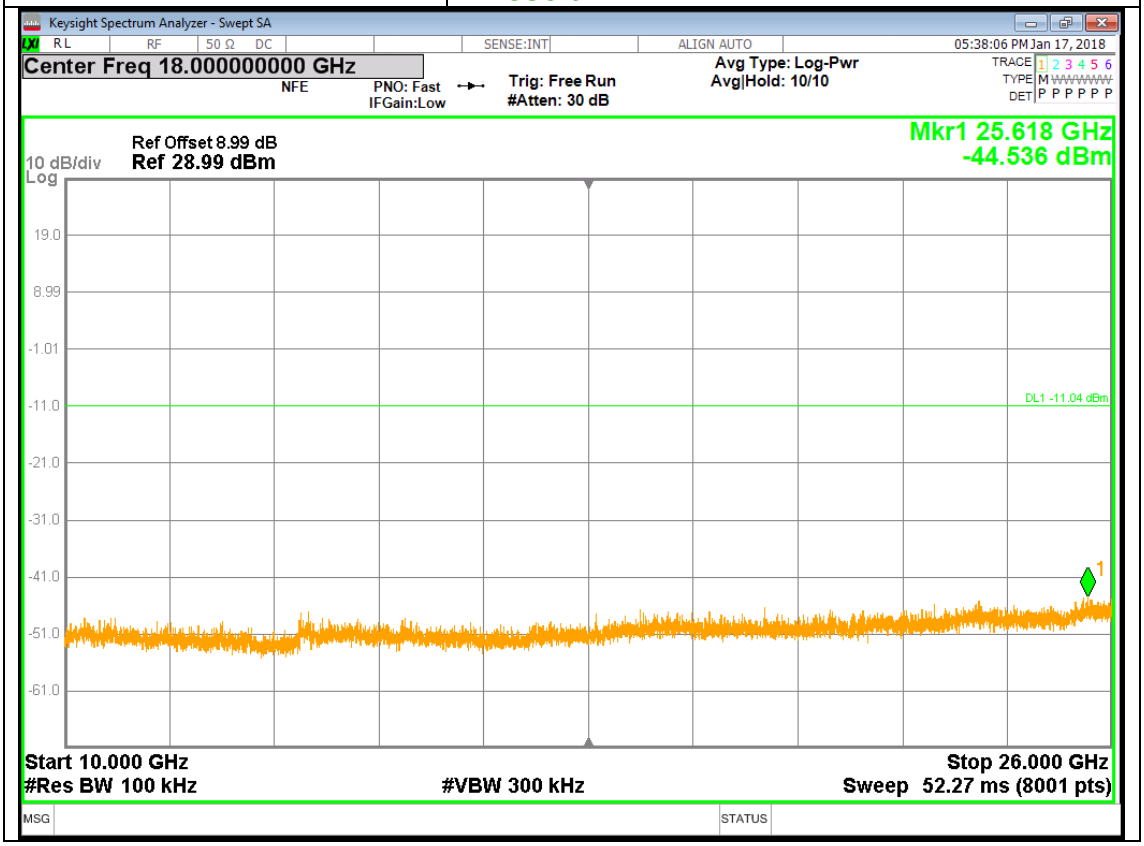
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25618.000MHz@-44.536 dBm**



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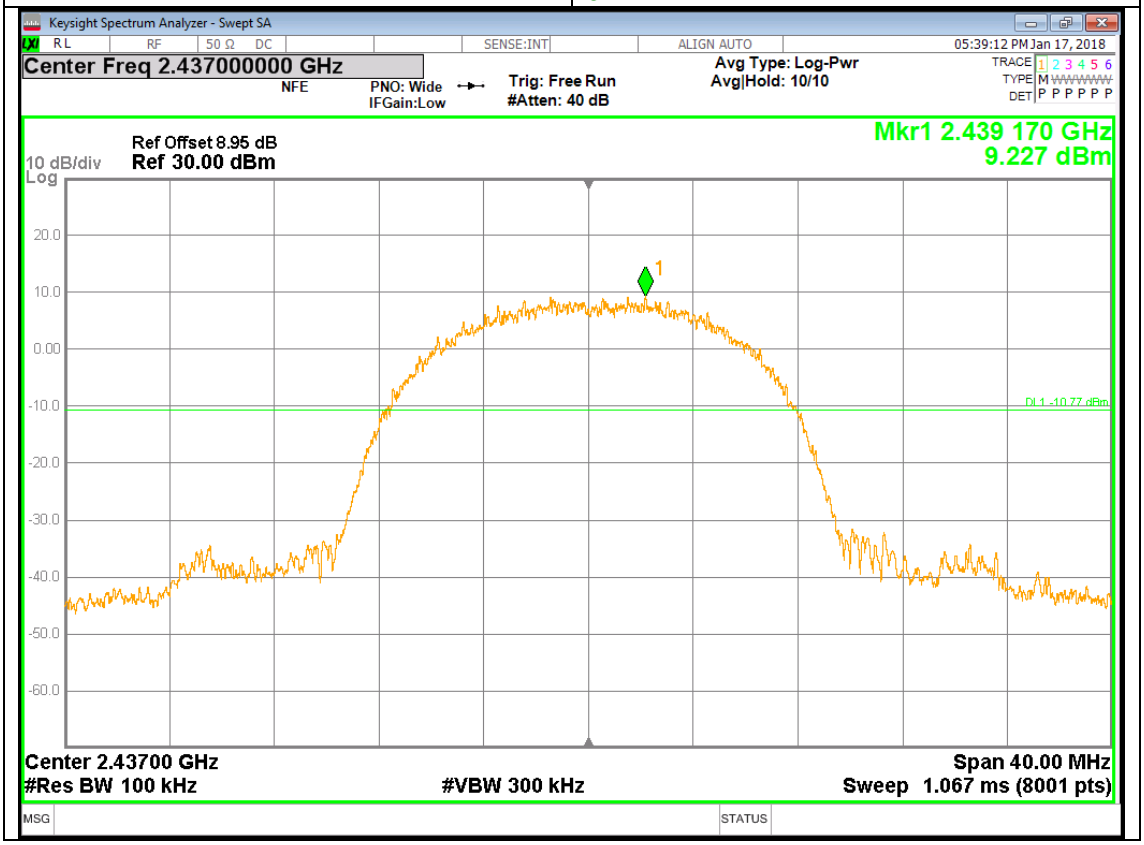
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2439.170MHz@9.227 dBm**



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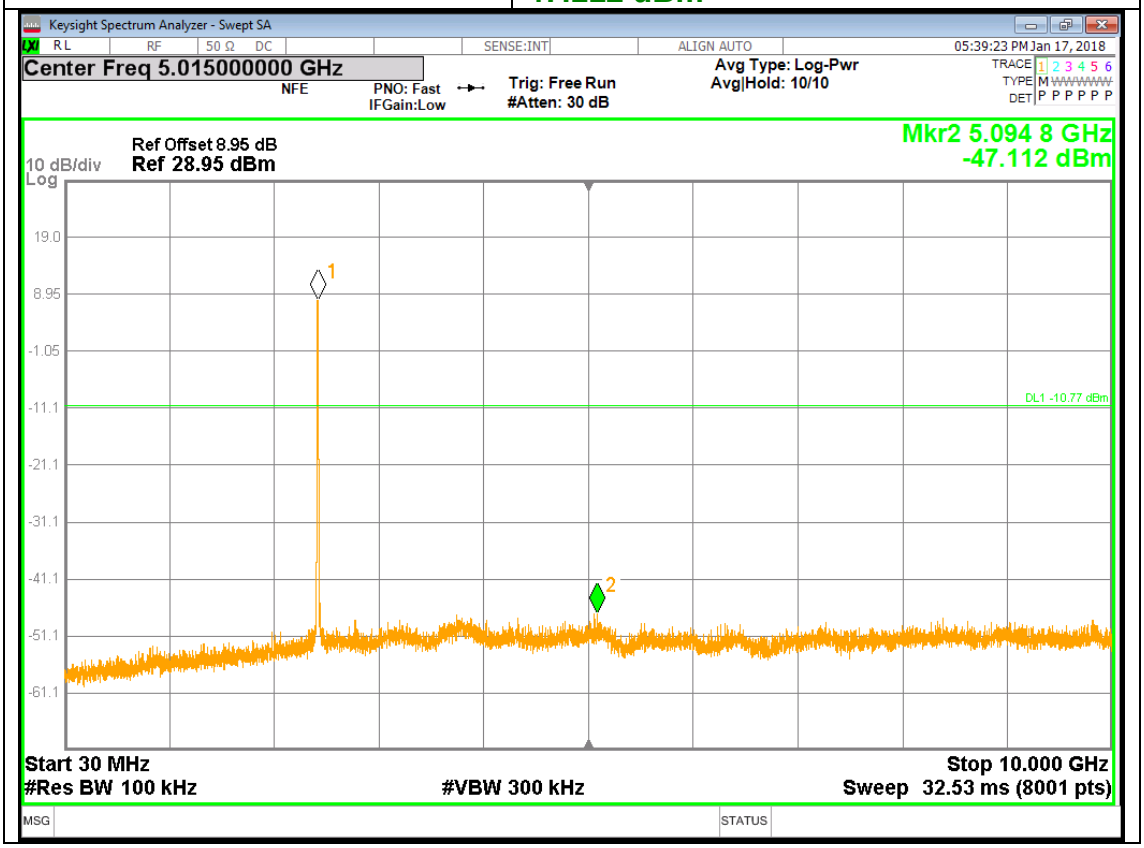
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;5094.760MHz@-47.112 dBm**



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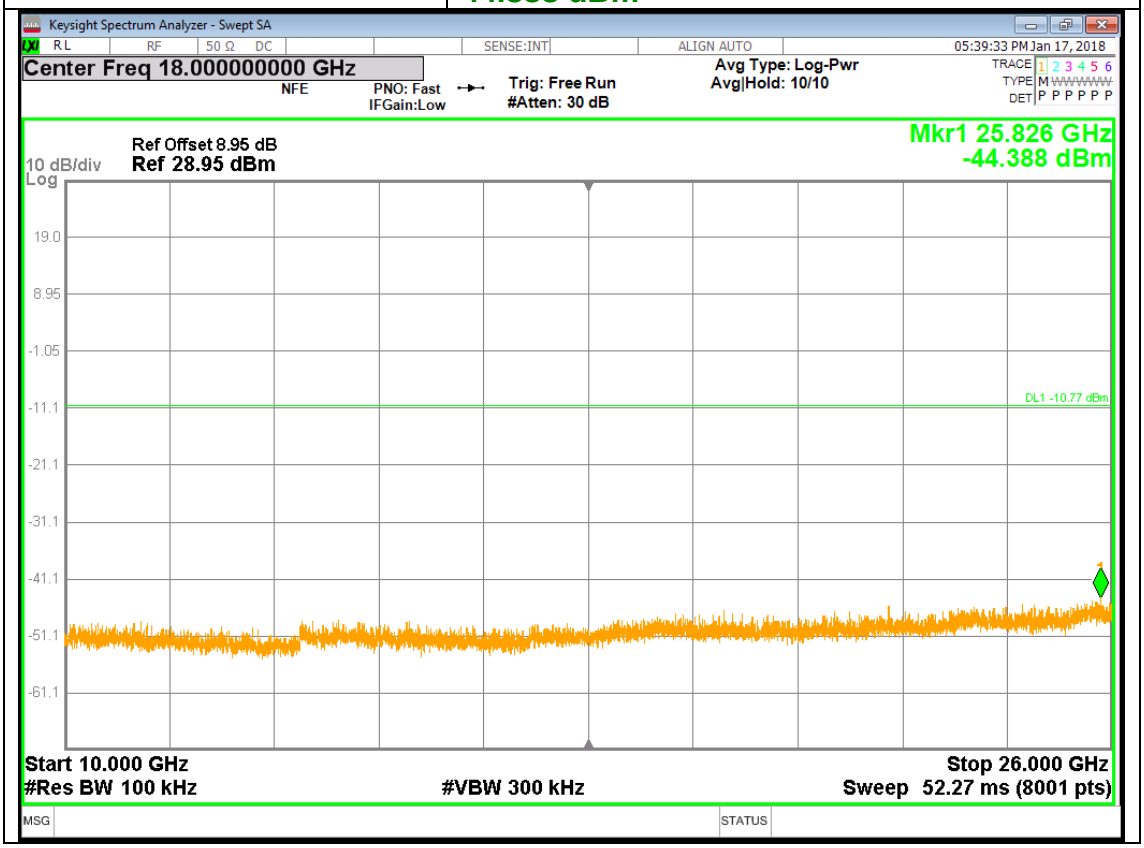
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25826.000MHz@-44.388 dBm**



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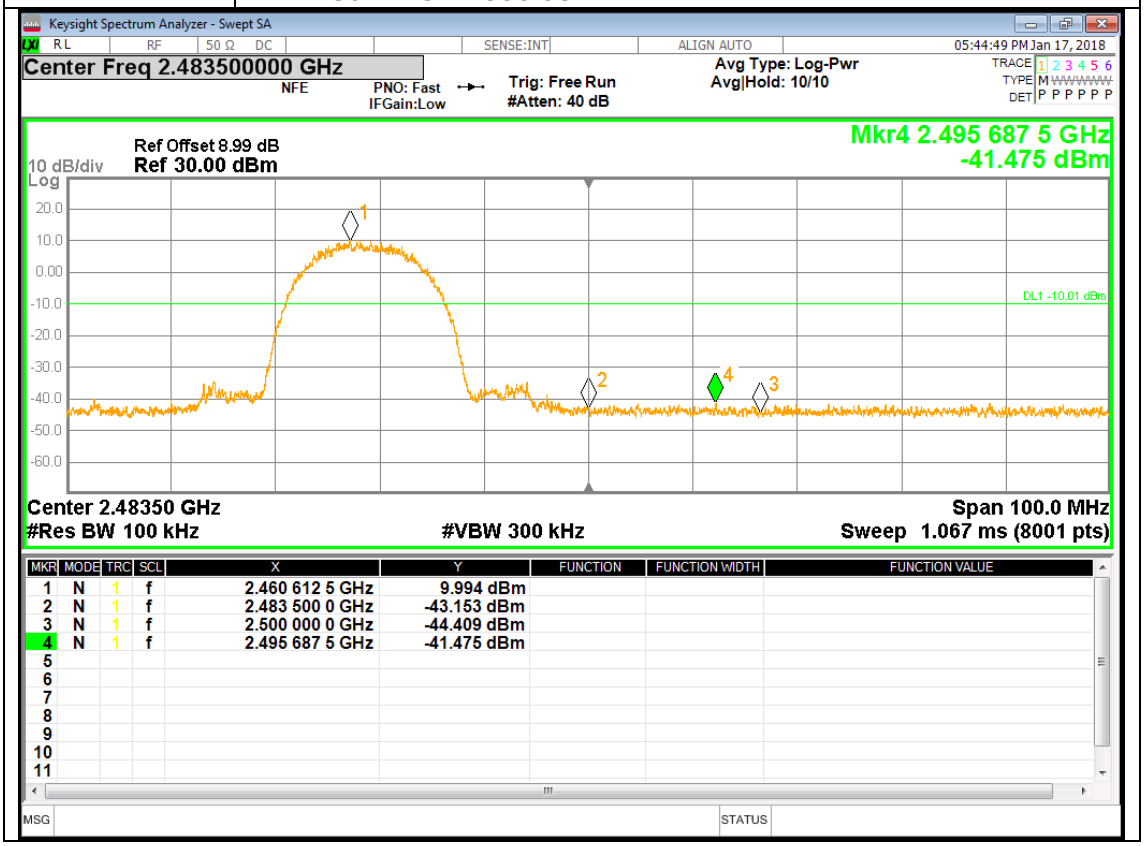
High Channel

Test Case: Bandedge Compliance	
Mode: 11B	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:9.994dBm;Max:2495.688MHz@-41.475dBm51.469dbc**



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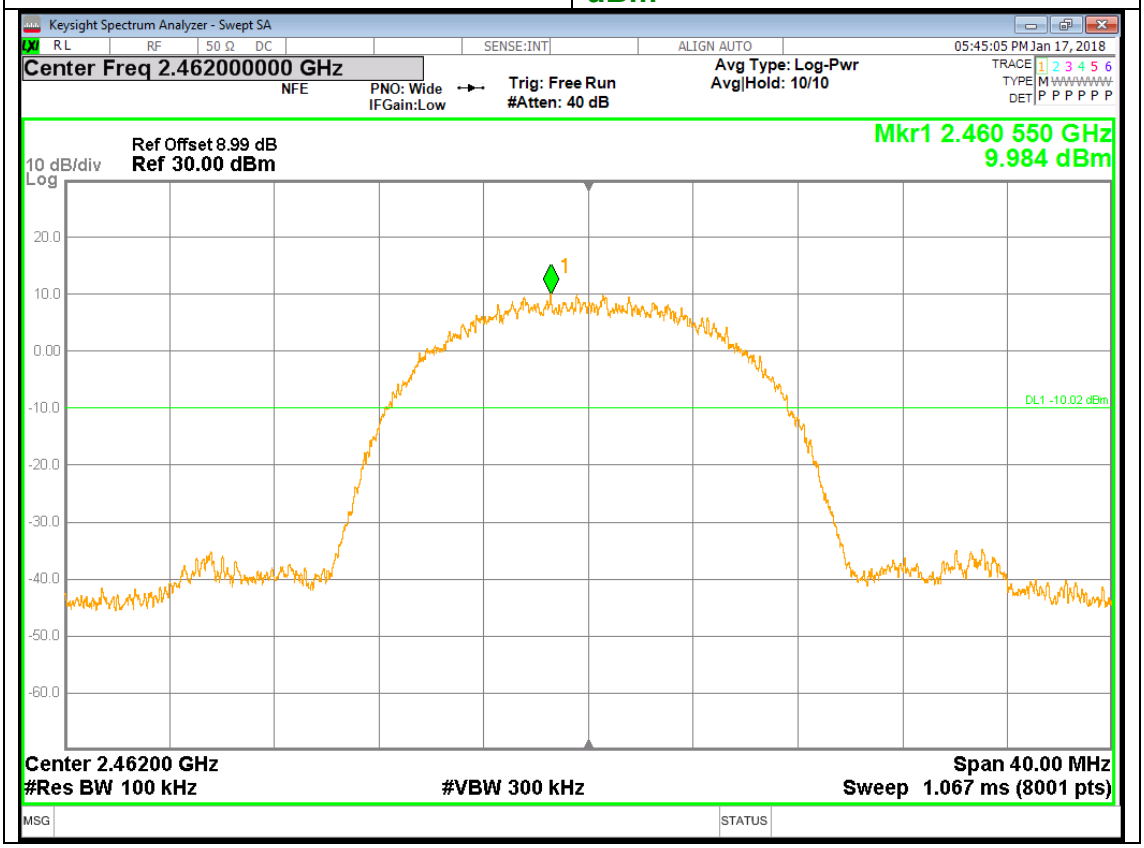
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2460.550MHz@9.984 dBm**



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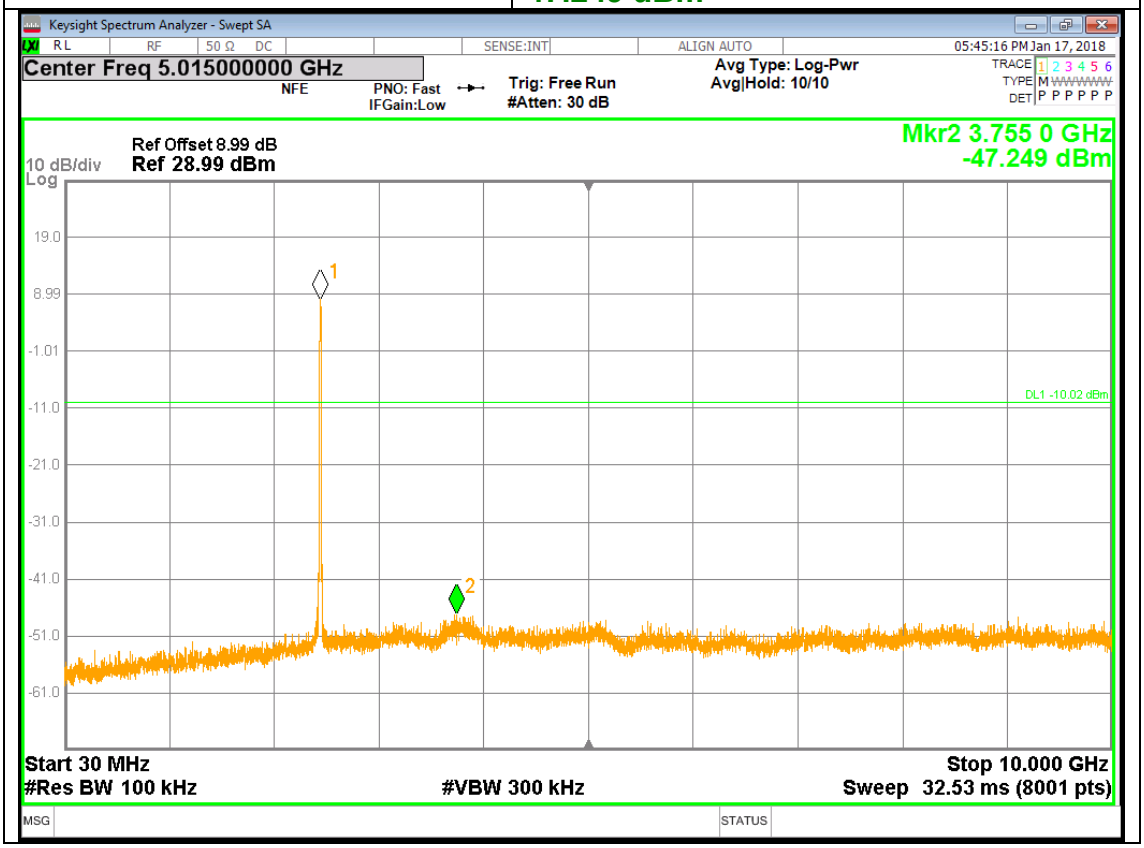
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3755.041MHz@-47.249 dBm**



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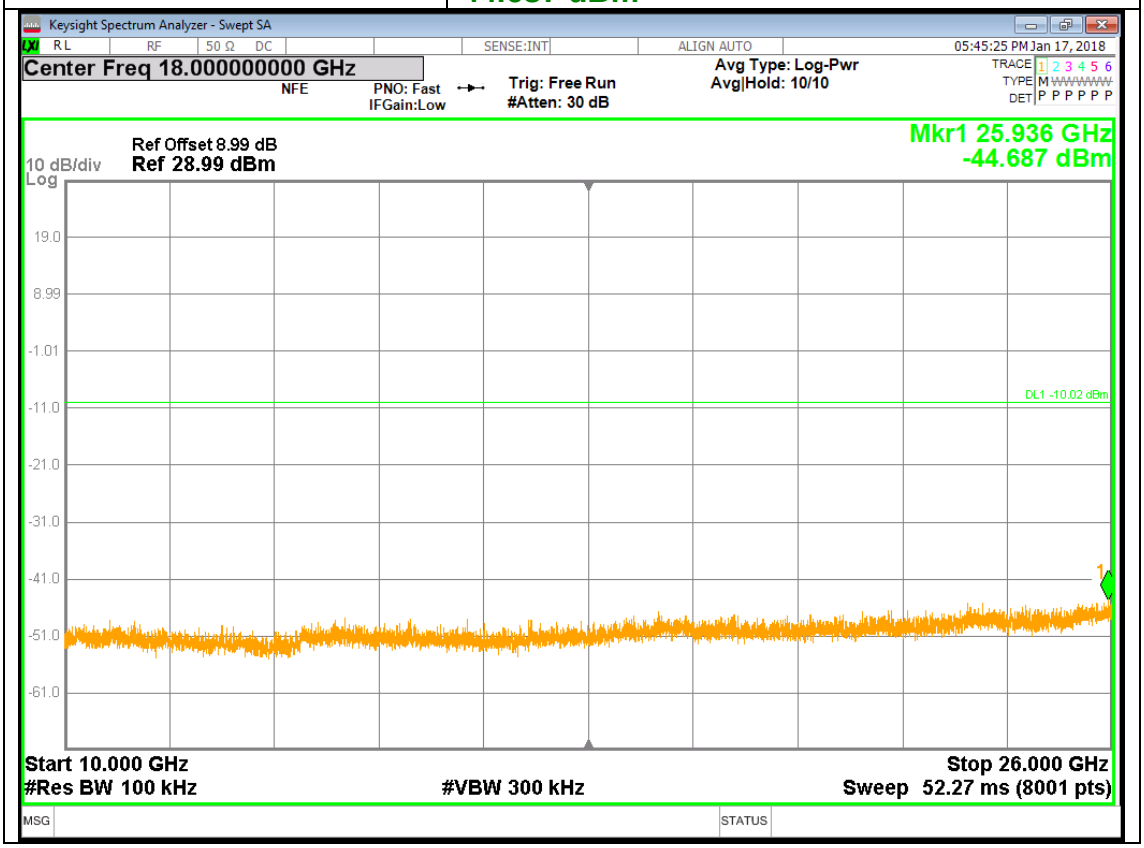
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25936.000MHz@-44.687 dBm**



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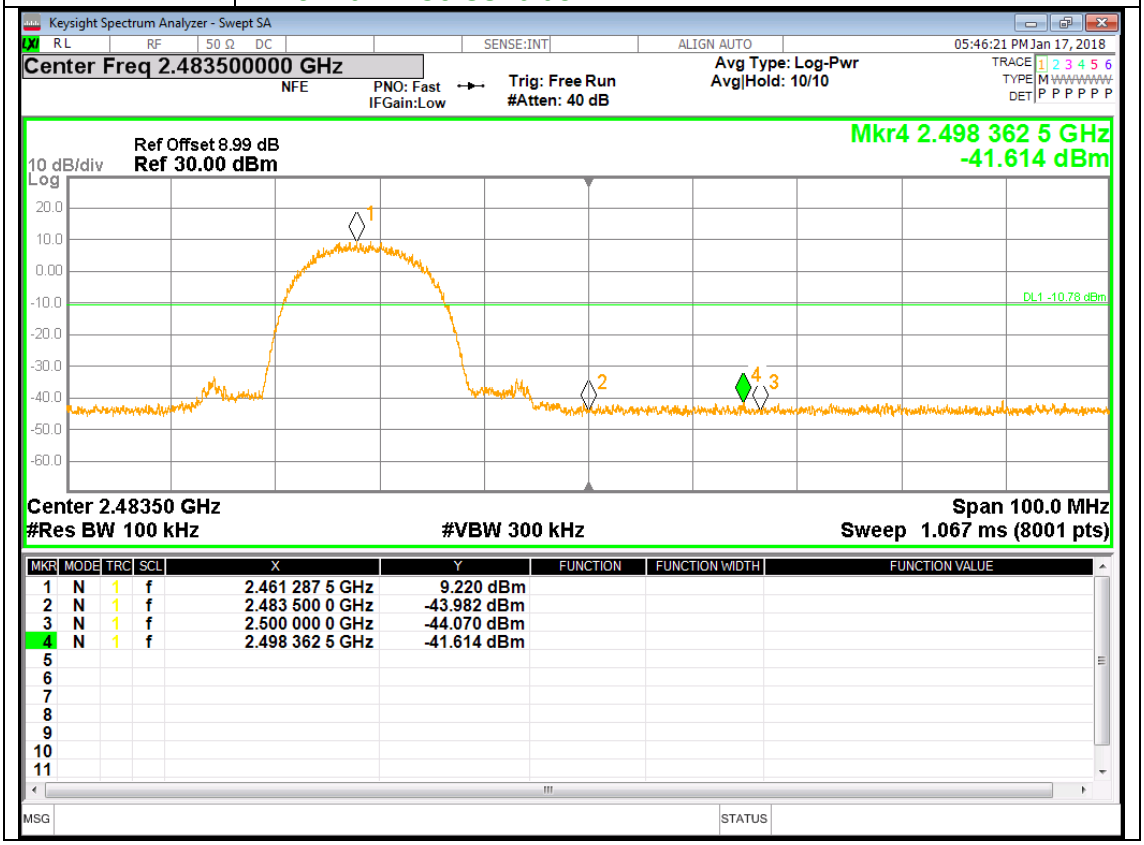
Test Case: Bandedge Compliance	
Mode: 11B	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:9.220dBm;Max:2498.363MHz@-41.614dBm50.834dbc**



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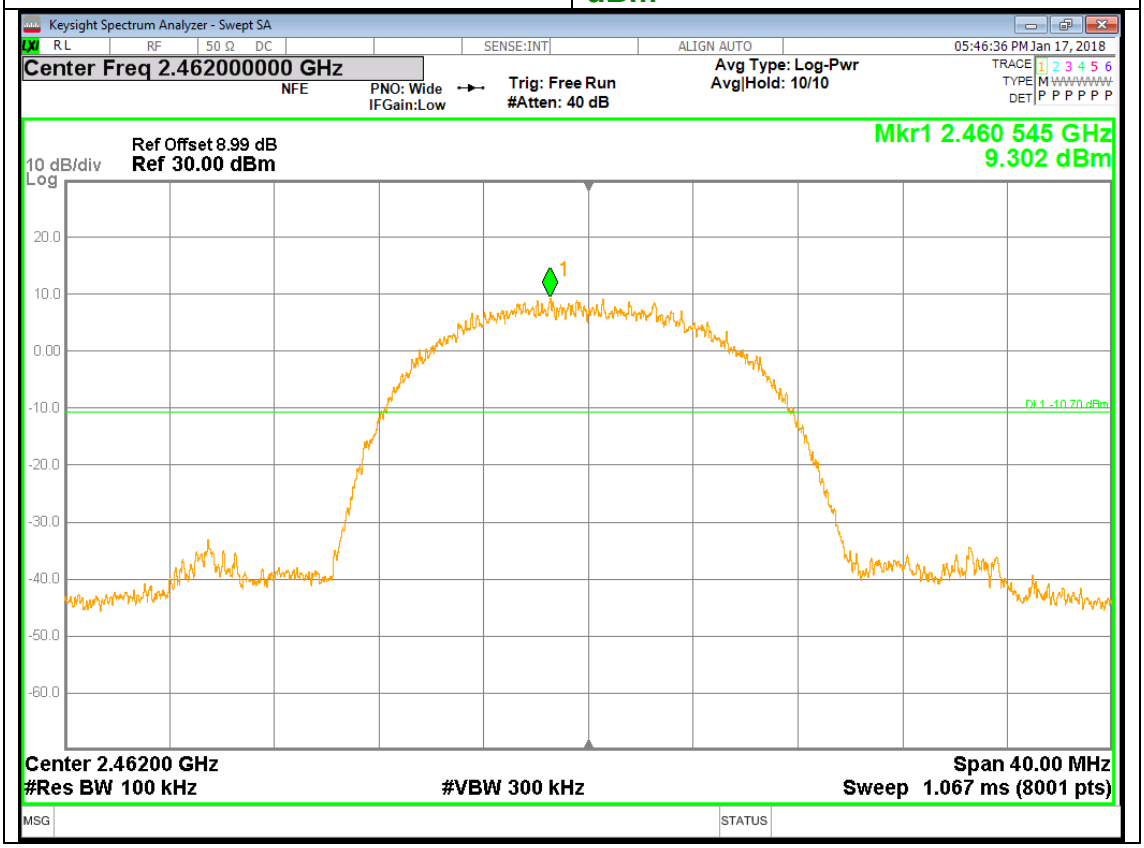
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2460.545MHz@9.302 dBm**



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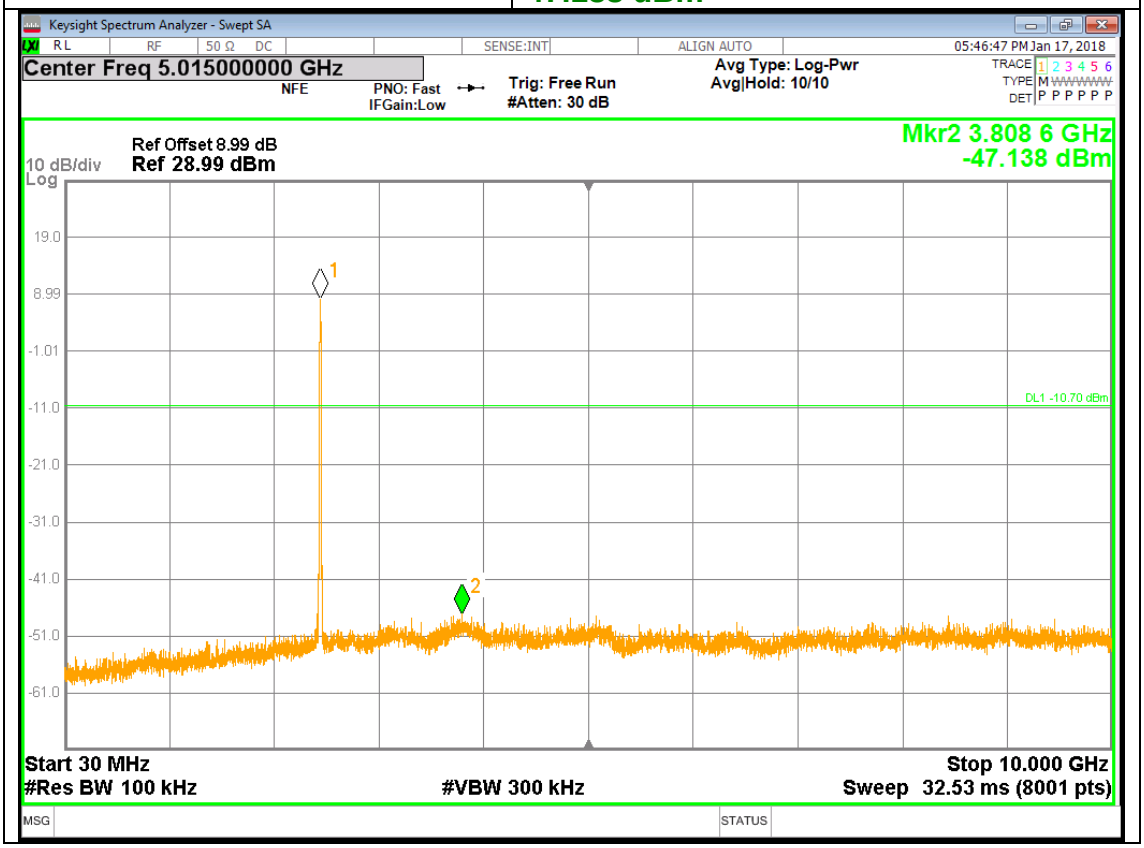
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3808.630MHz@-47.138 dBm**



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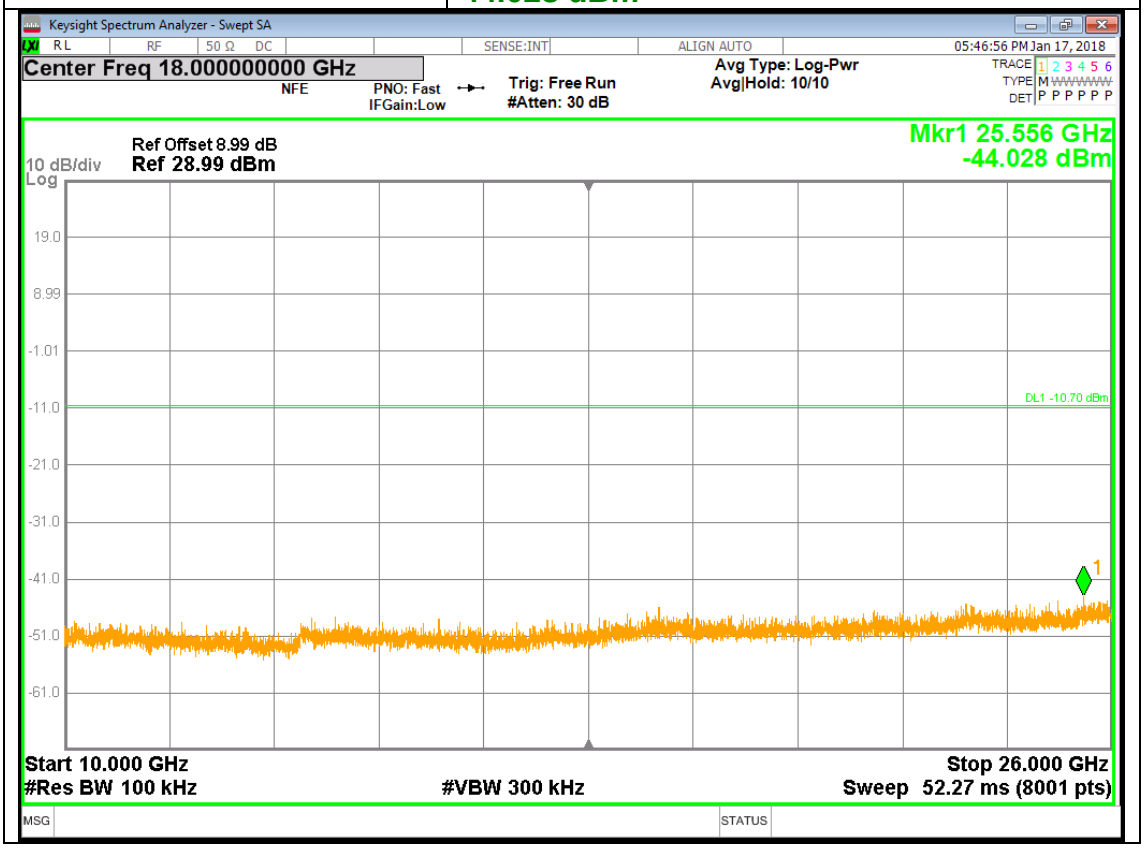
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25556.000MHz@-44.028 dBm**



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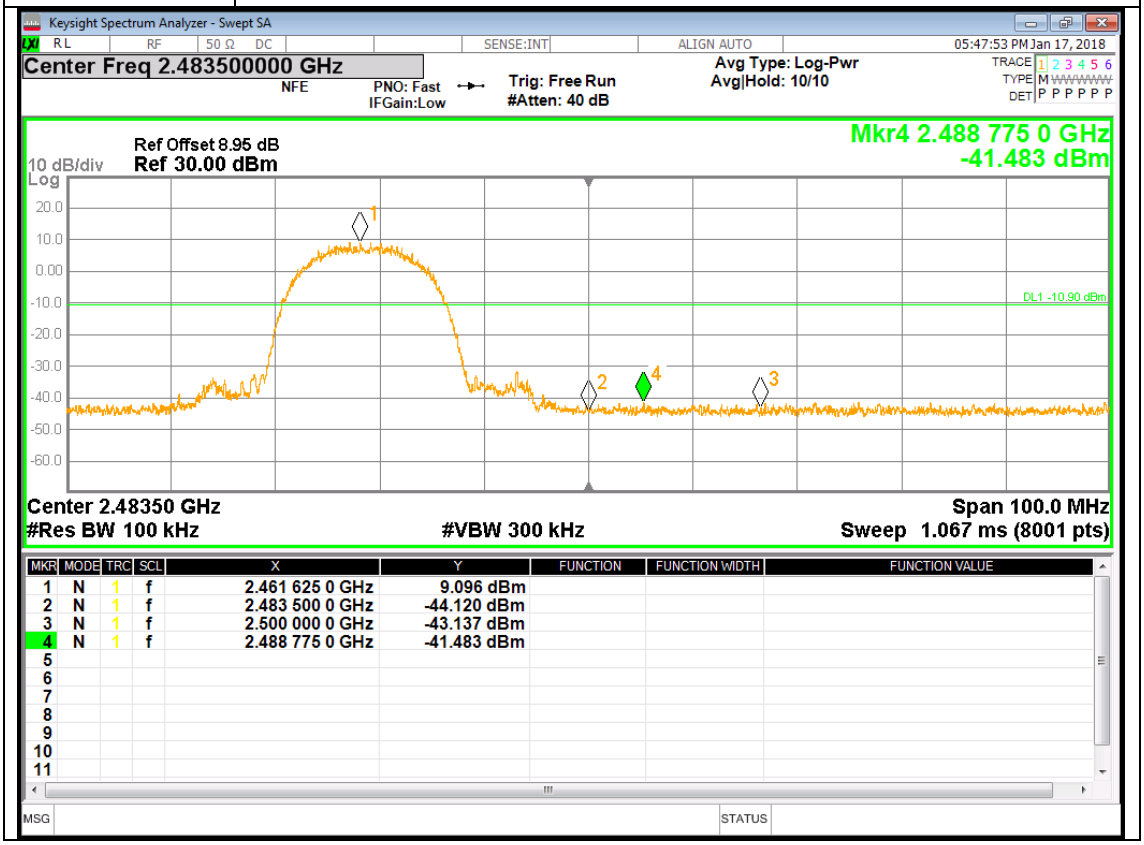
Test Case: Bandedge Compliance	
Mode: 11N20MIMO	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:9.096dBm;Max:2488.775MHz@-41.483dBm50.579dbc**



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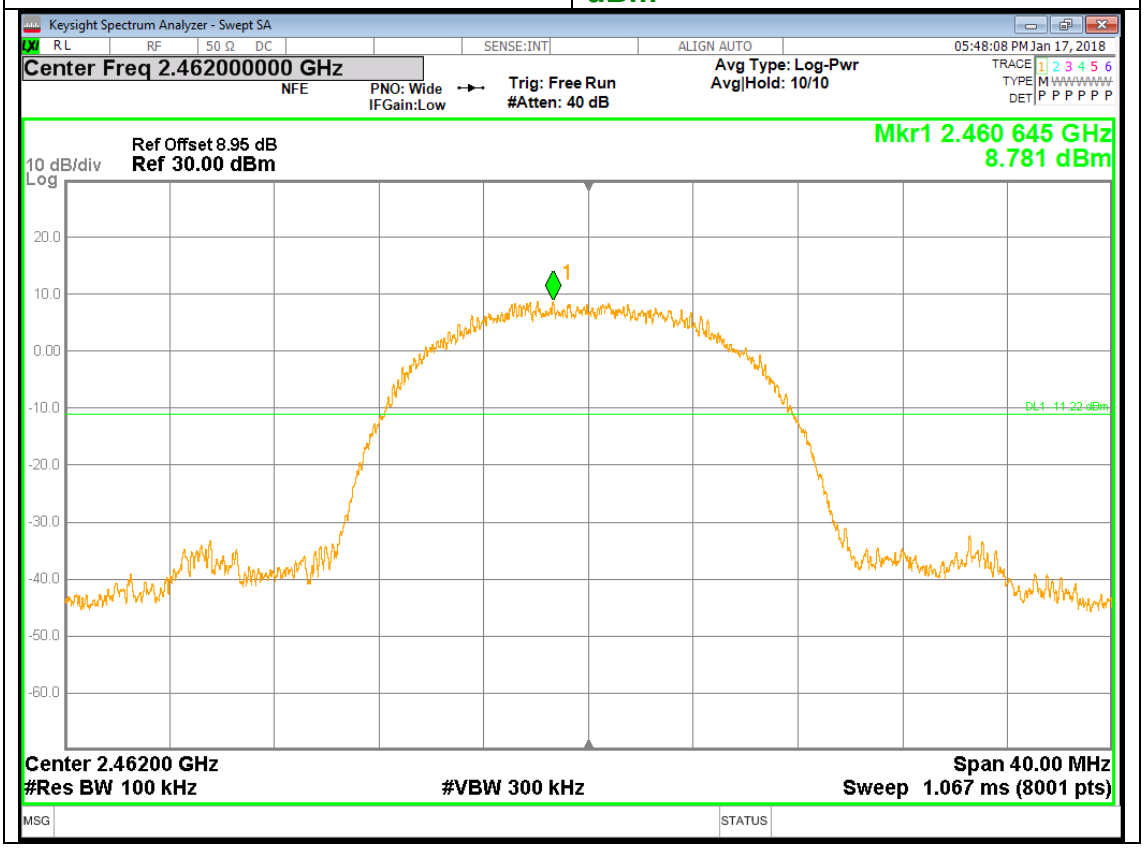
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2460.645MHz@8.781 dBm**



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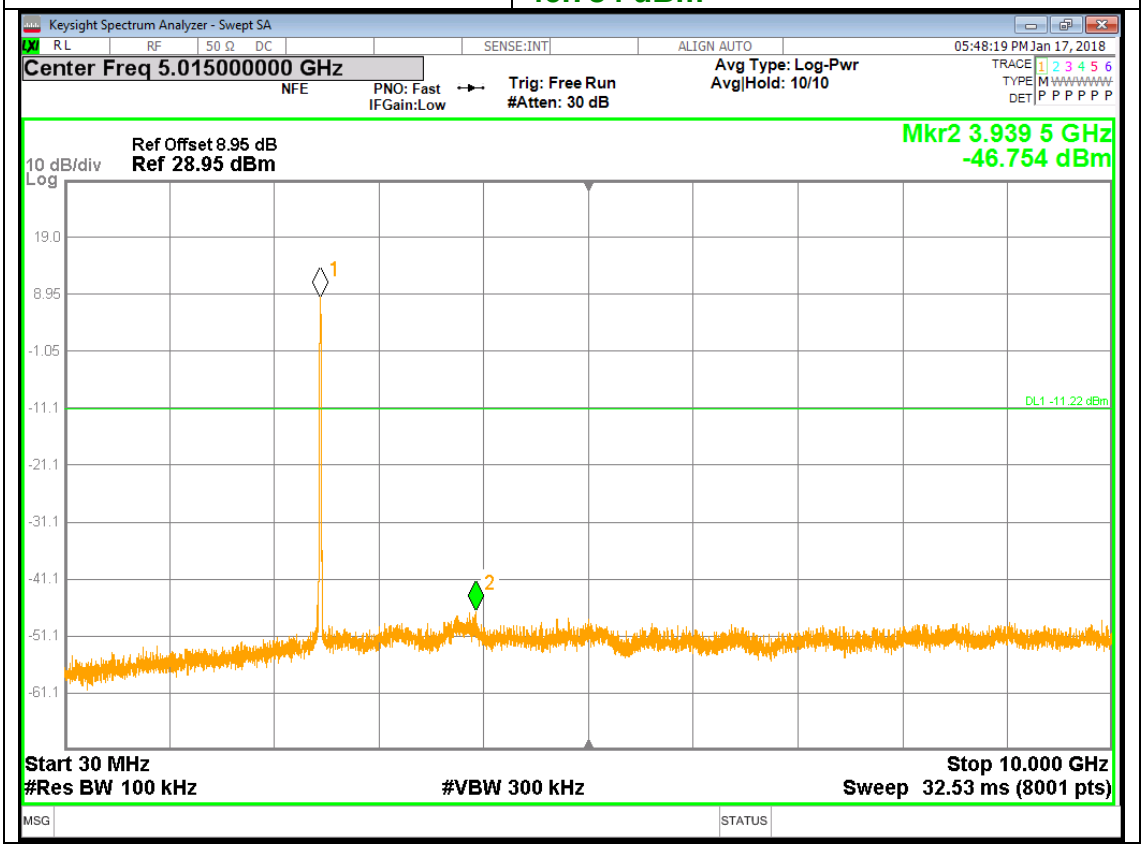
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3939.486MHz@-46.754 dBm**



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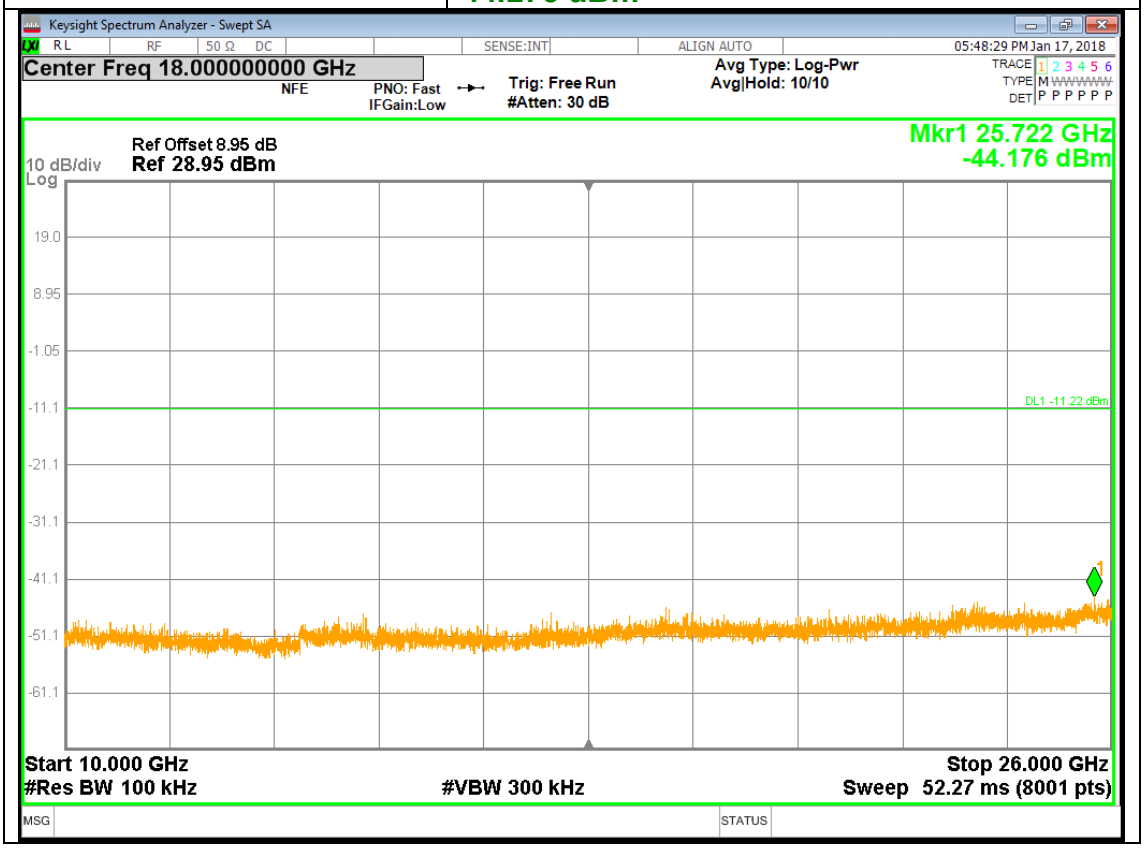
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11B	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25722.000MHz@-44.176 dBm**



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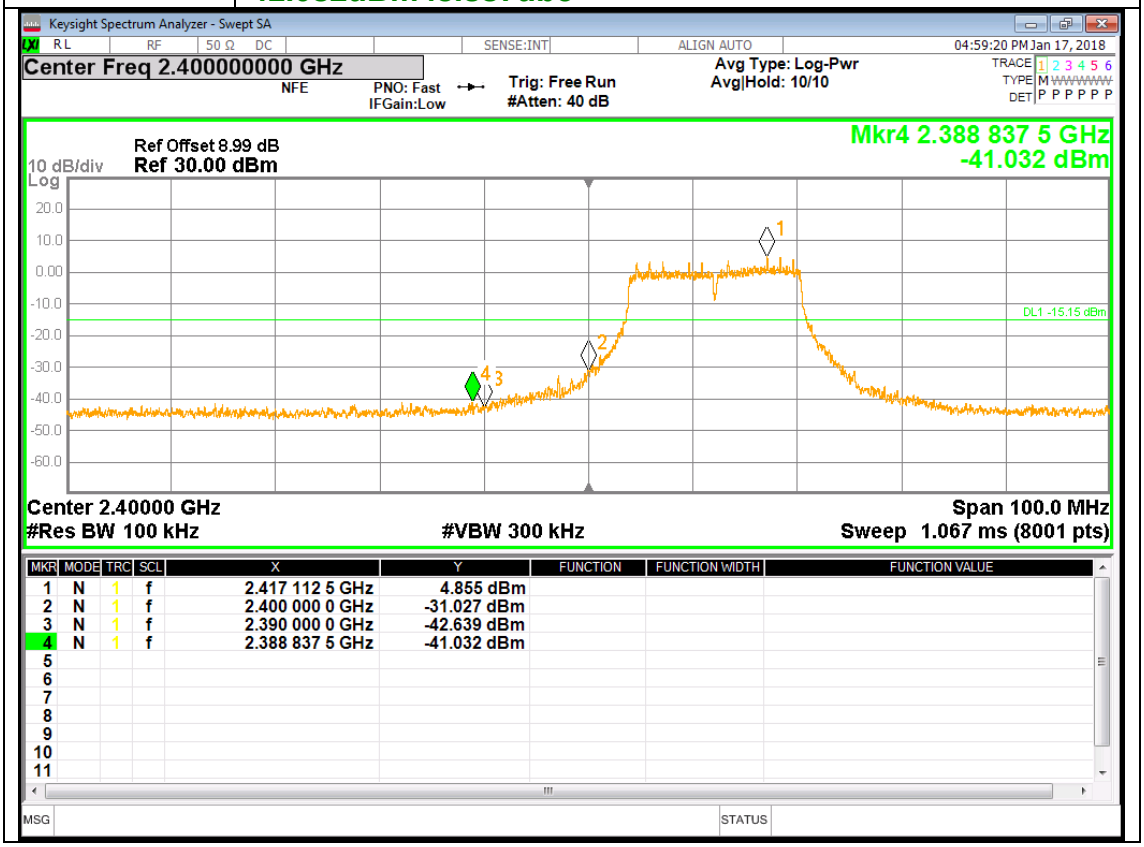
7.5.2. 802.11g 3TX MODE

Low Channel

Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:4.855dBm;Max:2388.838MHz@-41.032dBm45.887dbc**



UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch FORM NO: 10-SL-F0035
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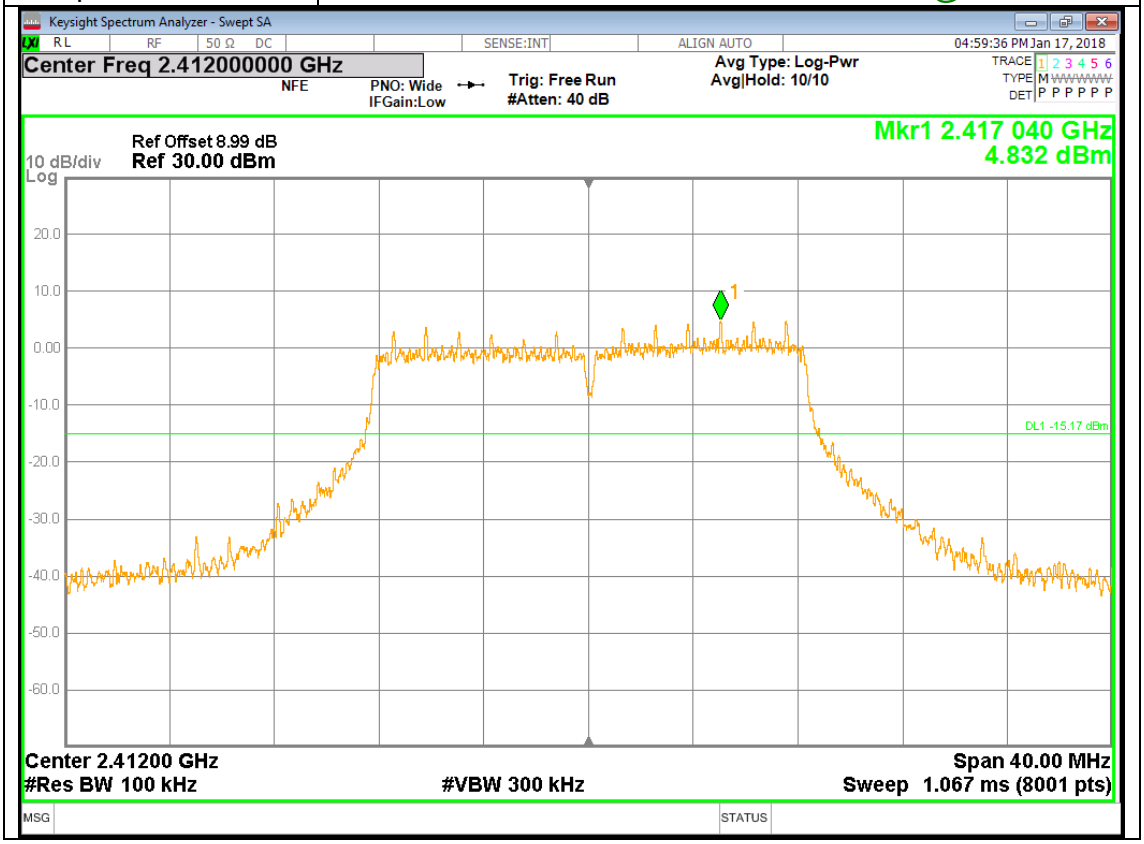
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2417.040MHz@4.832 dBm**



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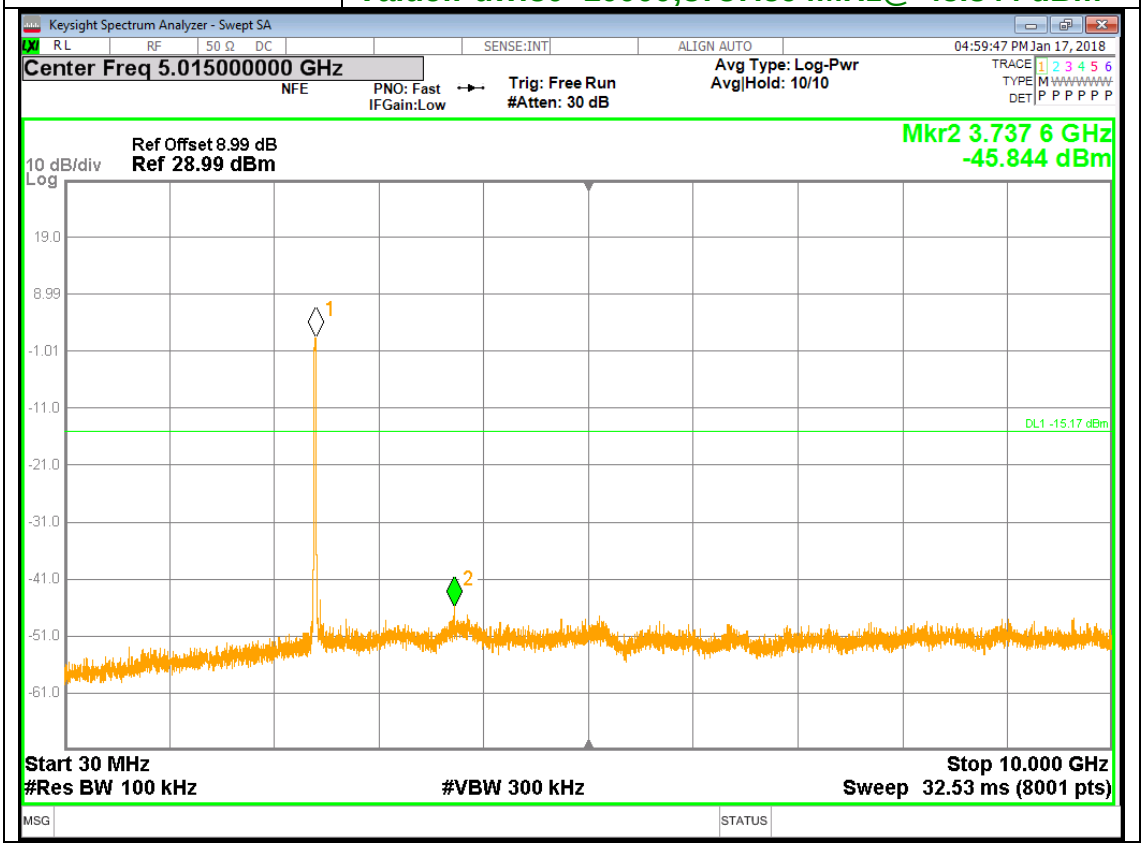
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3737.594MHz@-45.844 dBm**



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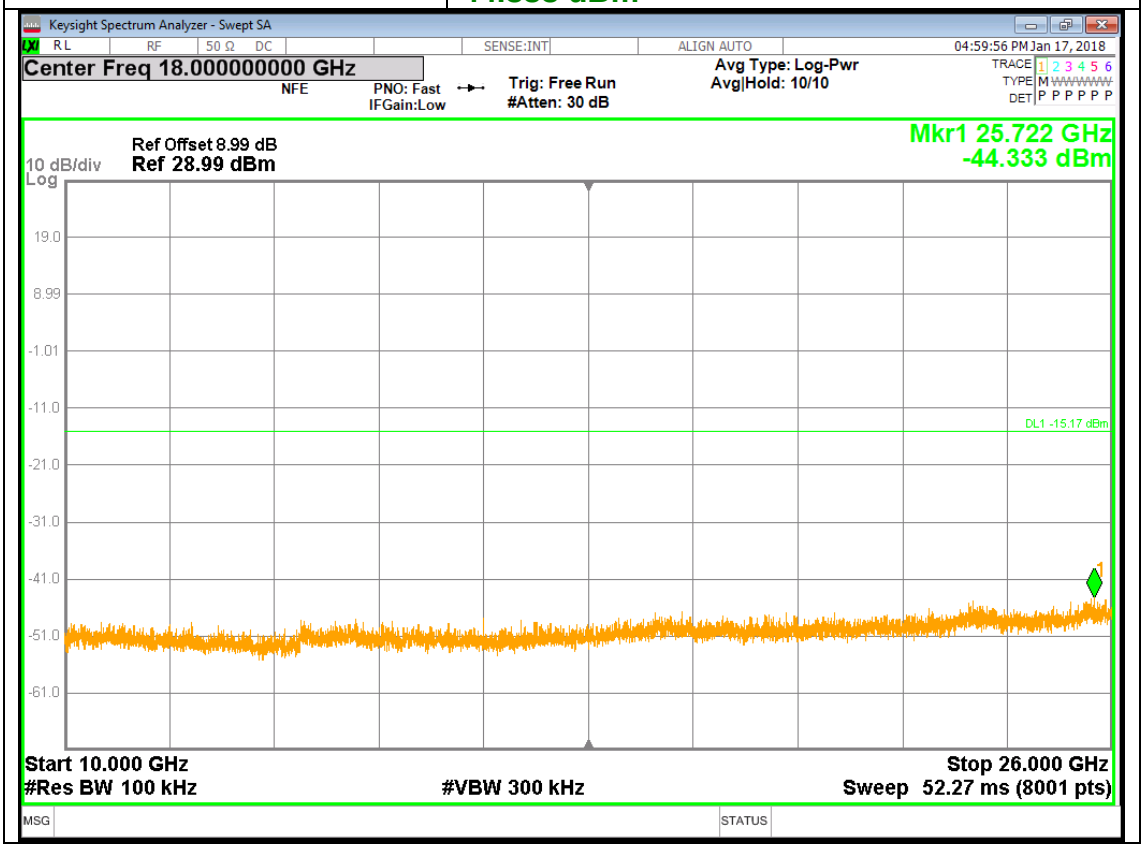
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25722.000MHz@-44.333 dBm**



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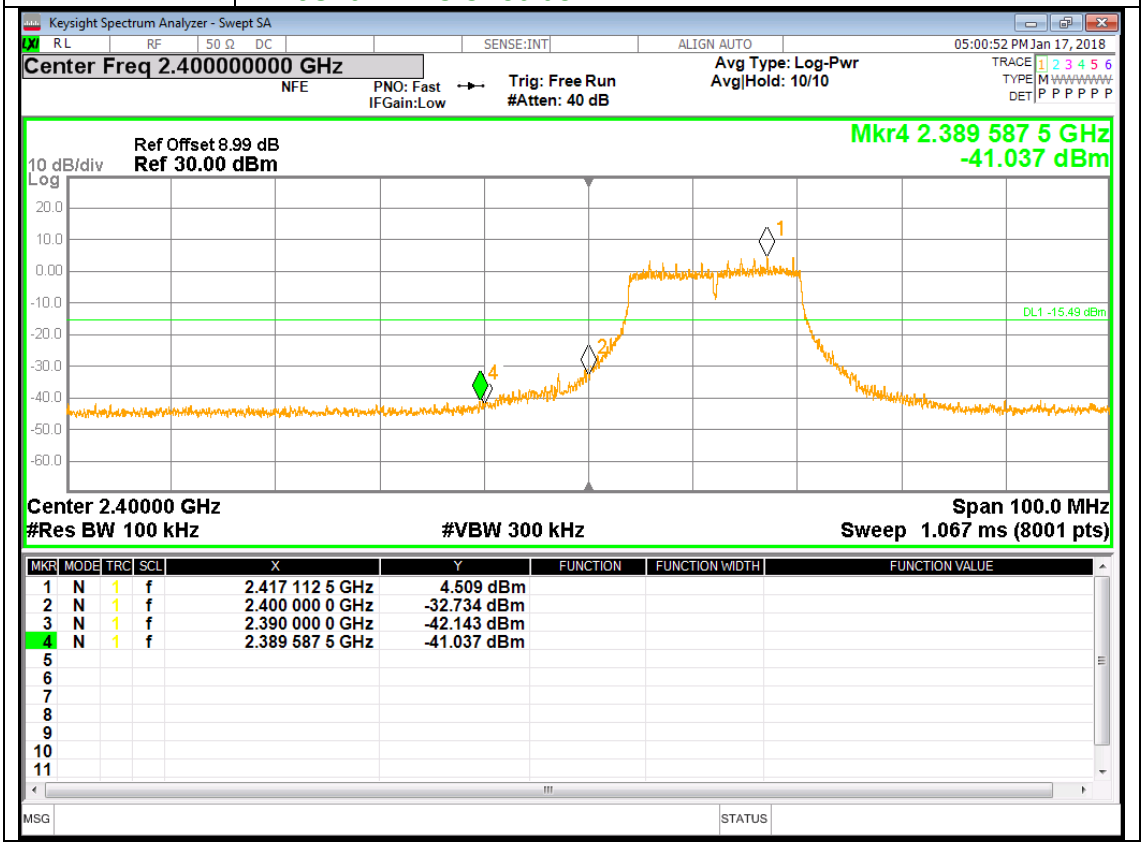
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:4.509dBm;Max:2389.588MHz@-41.037dBm45.546dbc**



UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch FORM NO: 10-SL-F0035
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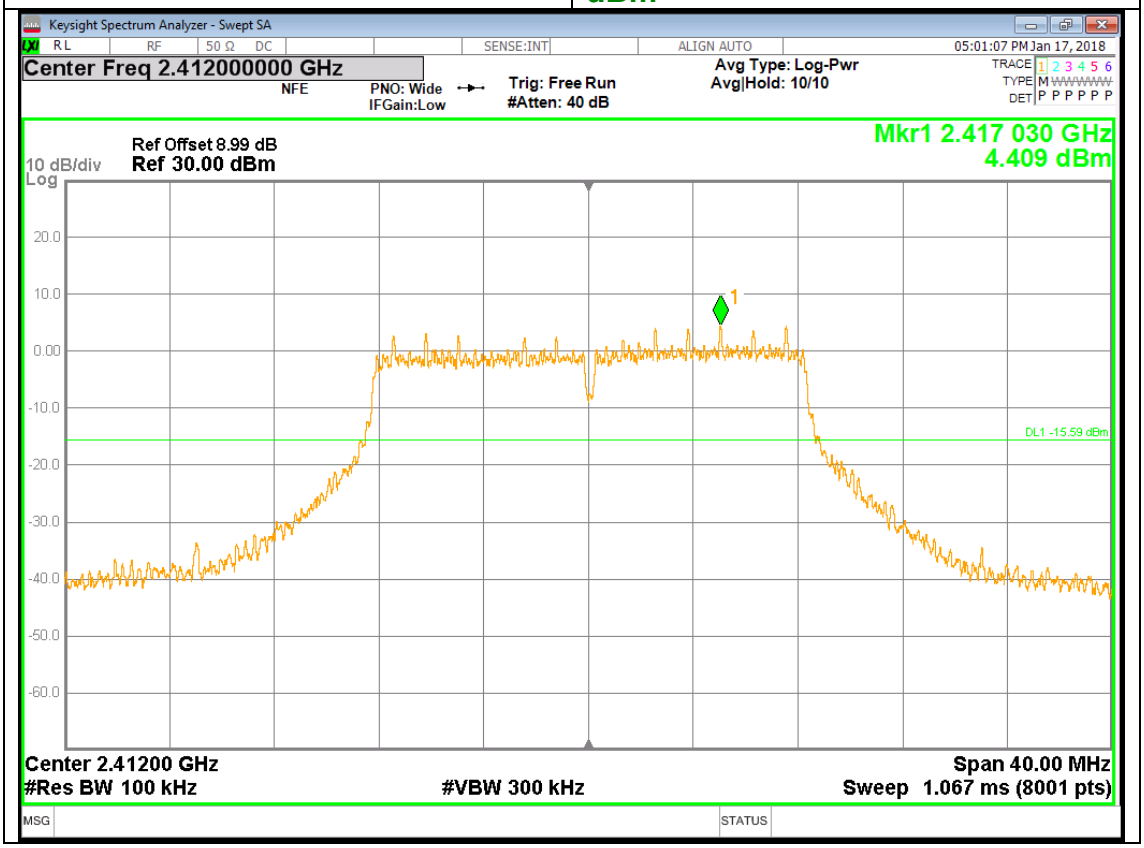
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2417.030MHz@4.409 dBm**



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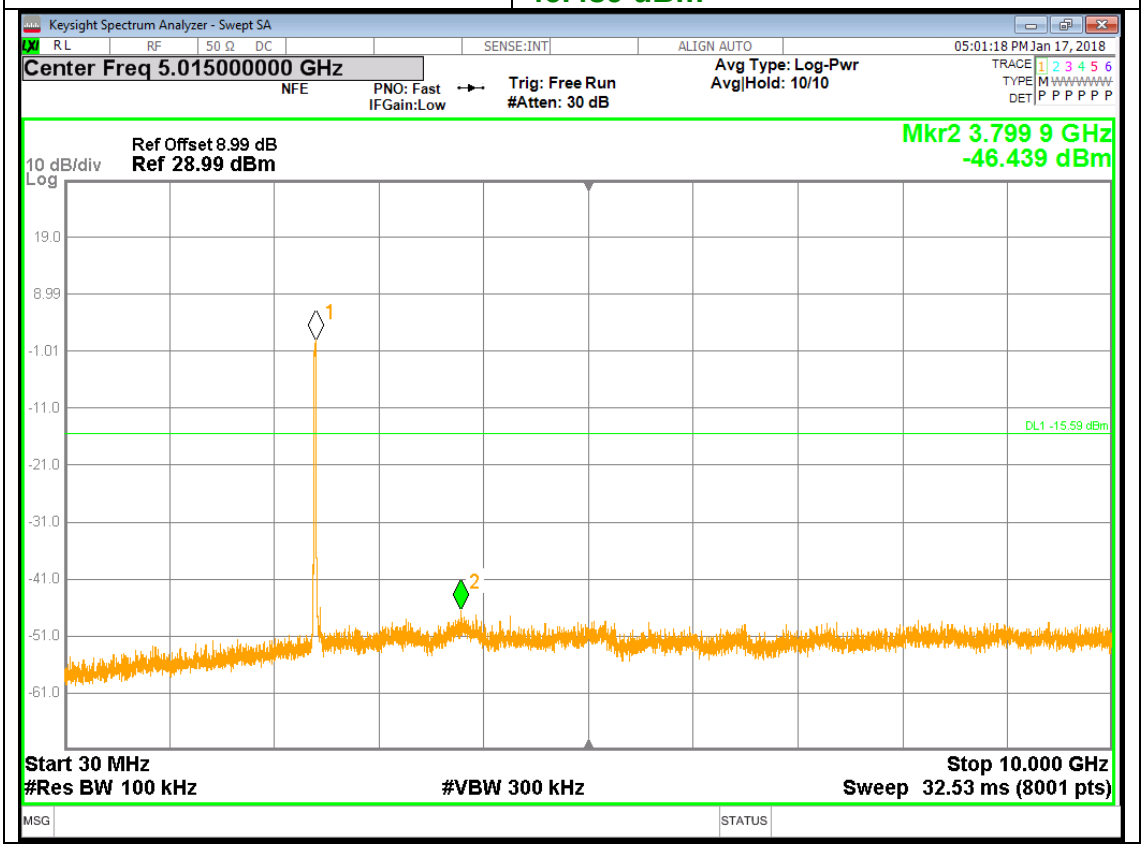
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3799.906MHz@-46.439 dBm**



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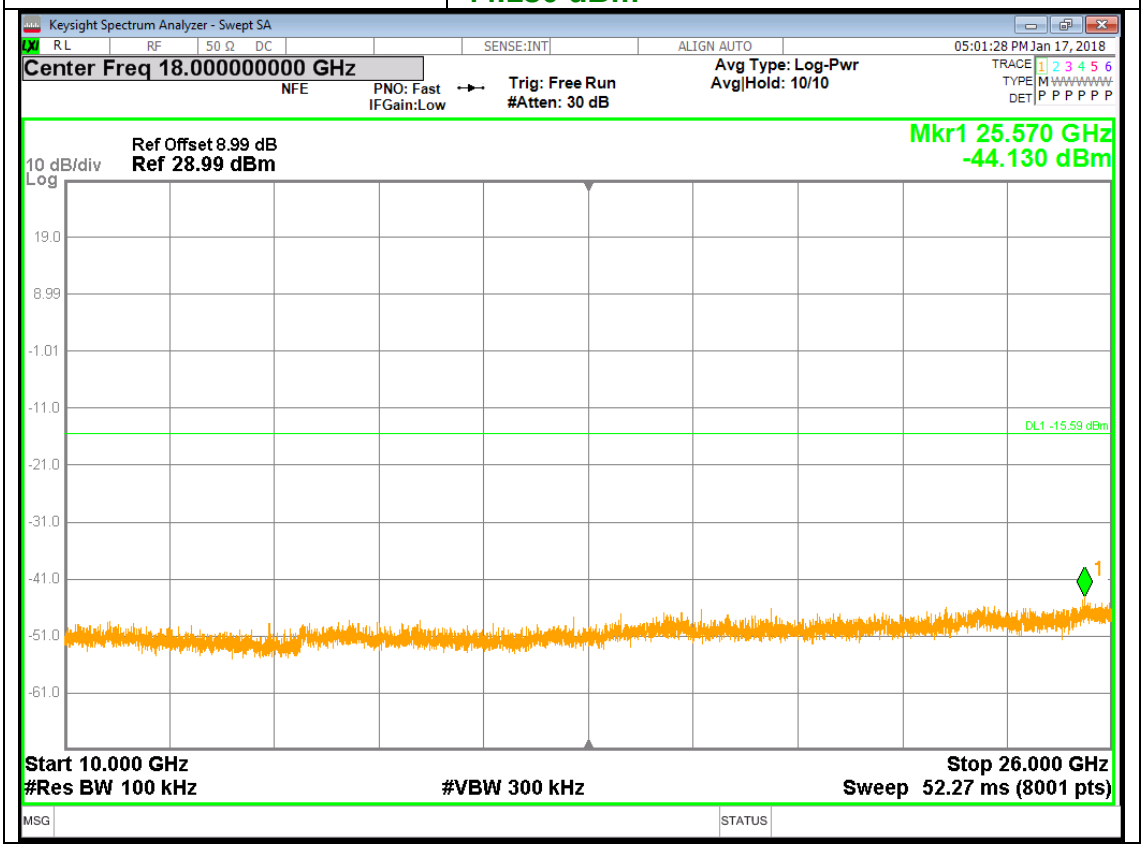
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25570.000MHz@-44.130 dBm**



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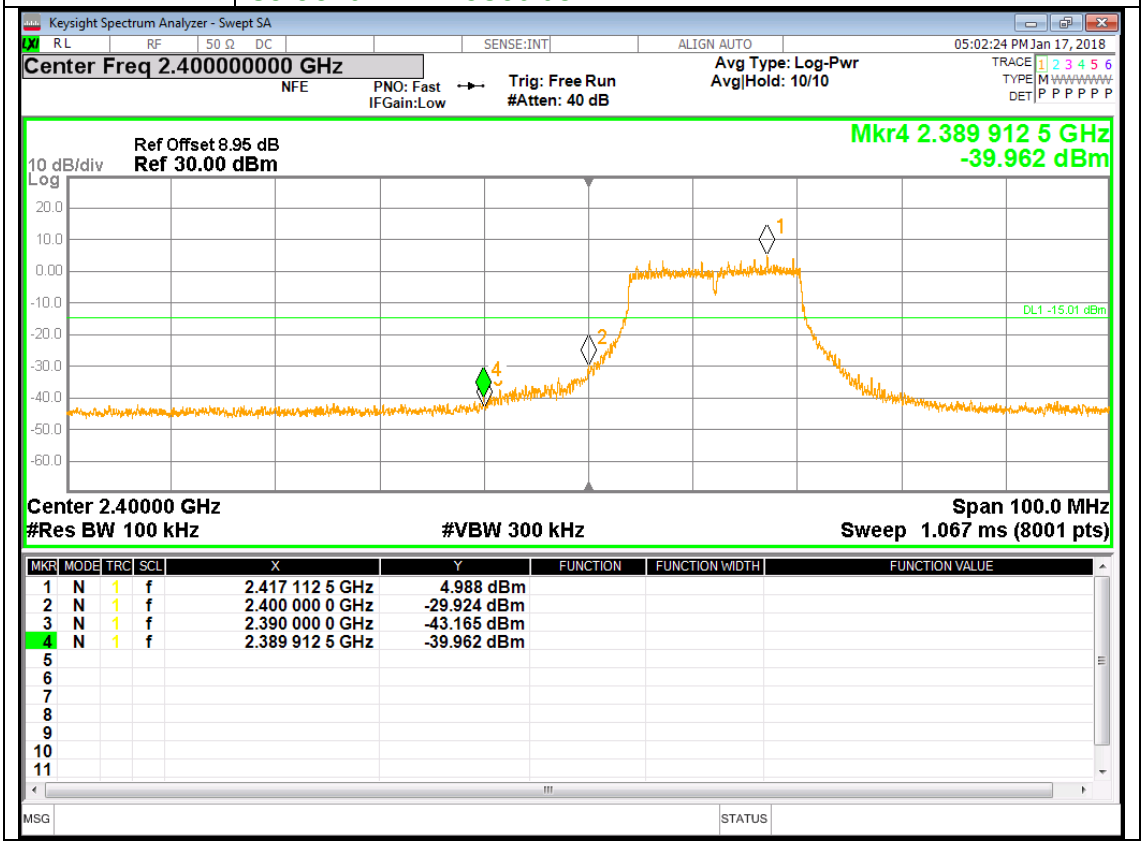
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:4.988dBm;Max:2389.913MHz@-39.962dBm44.950dbc**



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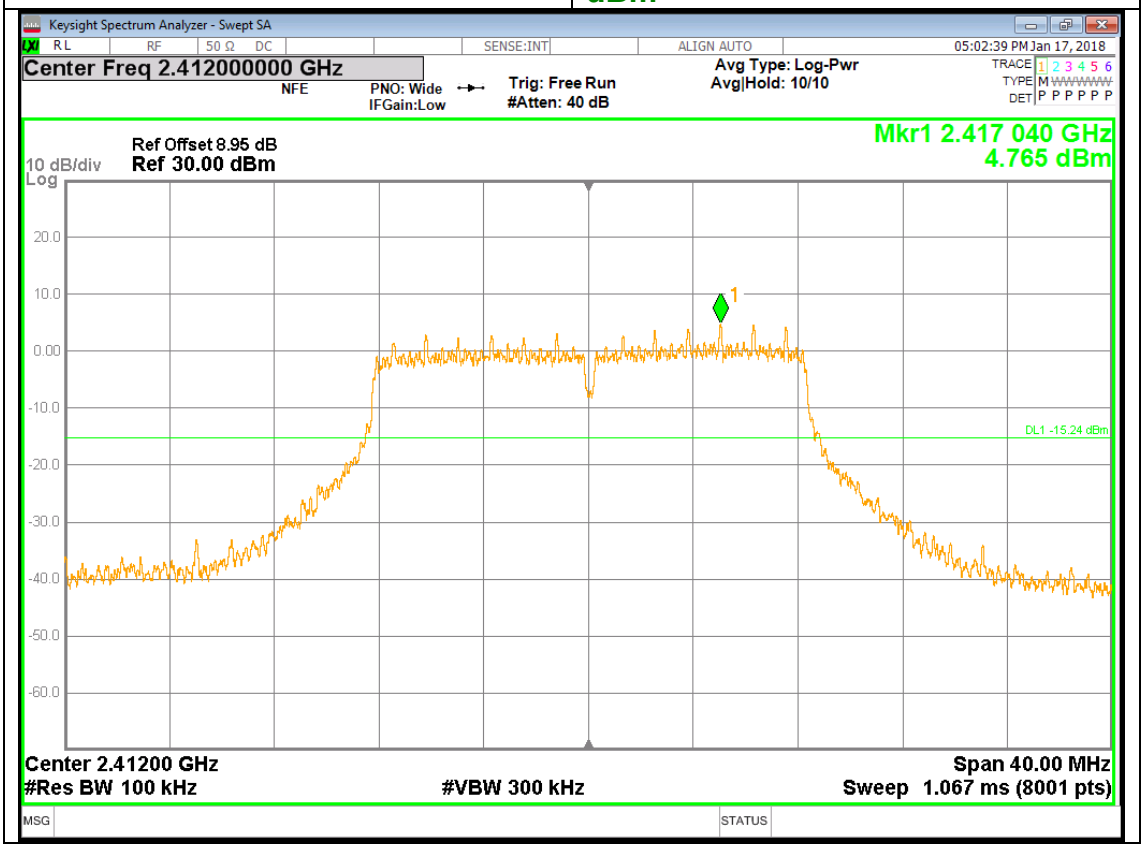
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2417.040MHz@4.765 dBm**



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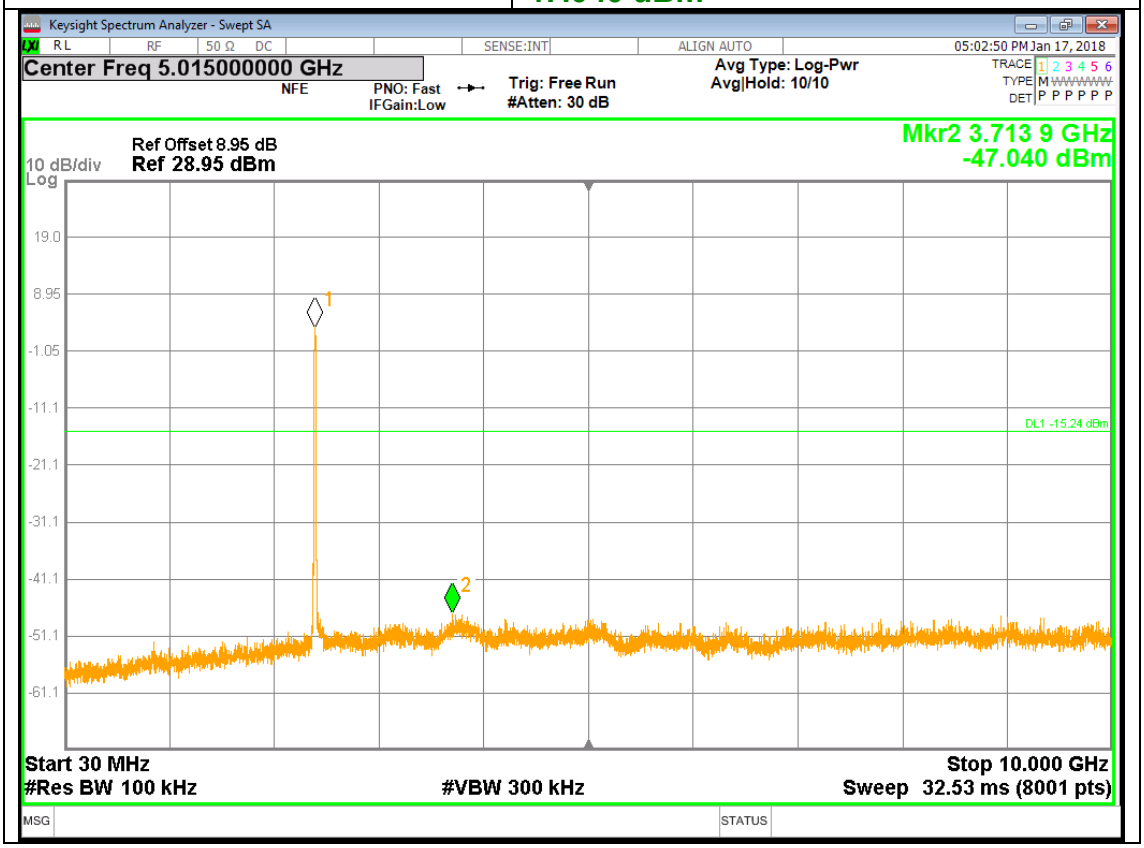
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3713.915MHz@-47.040 dBm**



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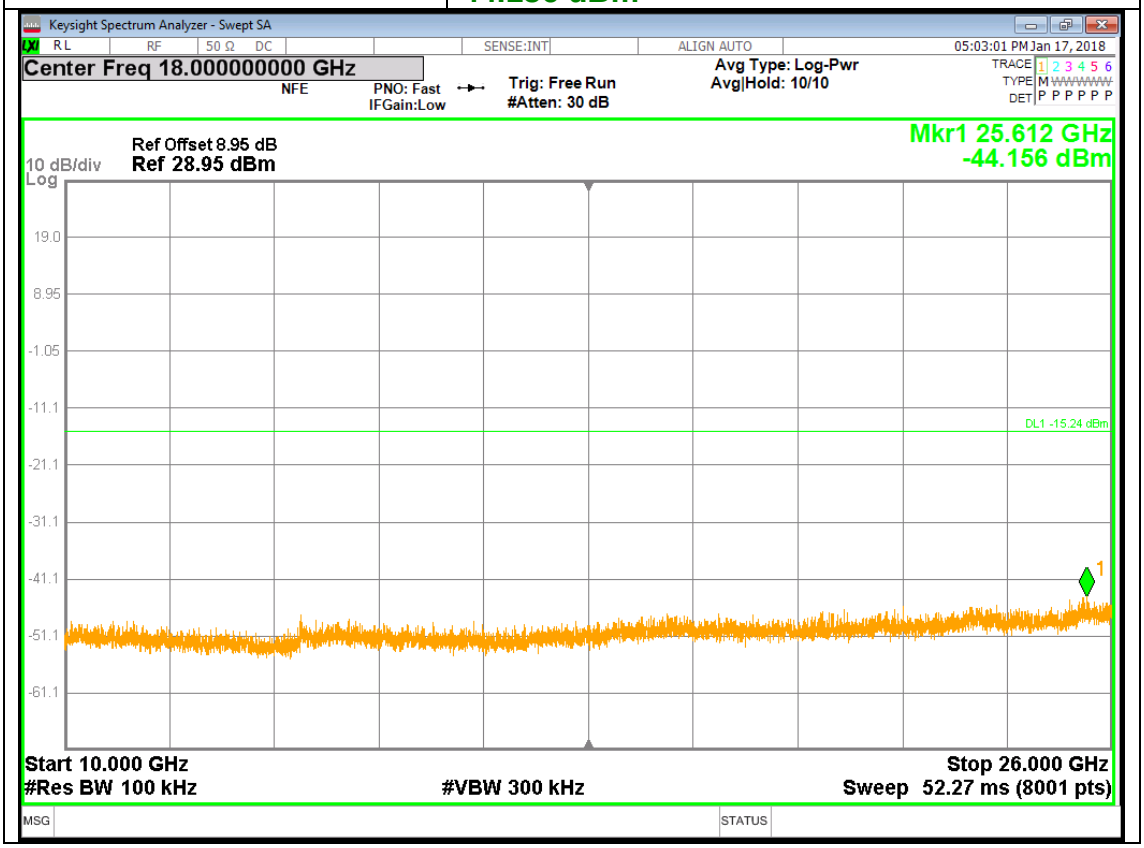
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25612.000MHz@-44.156 dBm**



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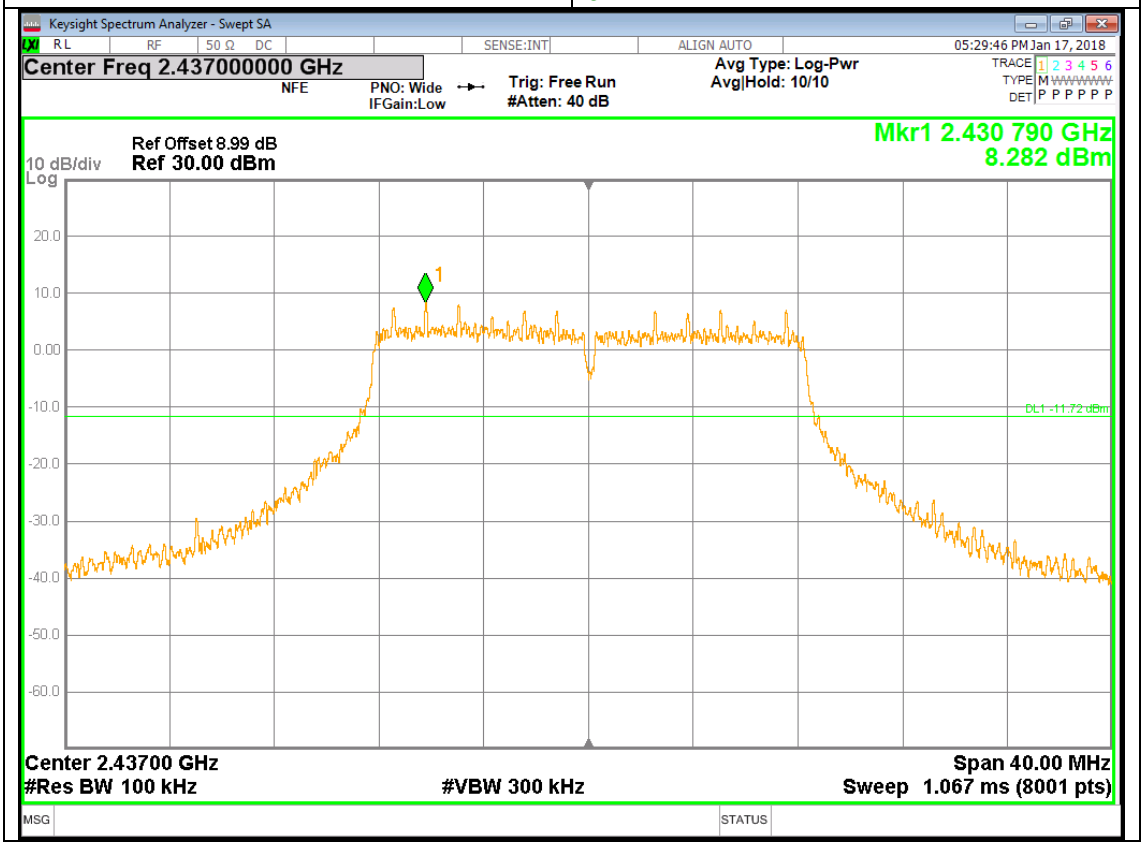
Middle Channel

Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2430.790MHz@8.282 dBm**



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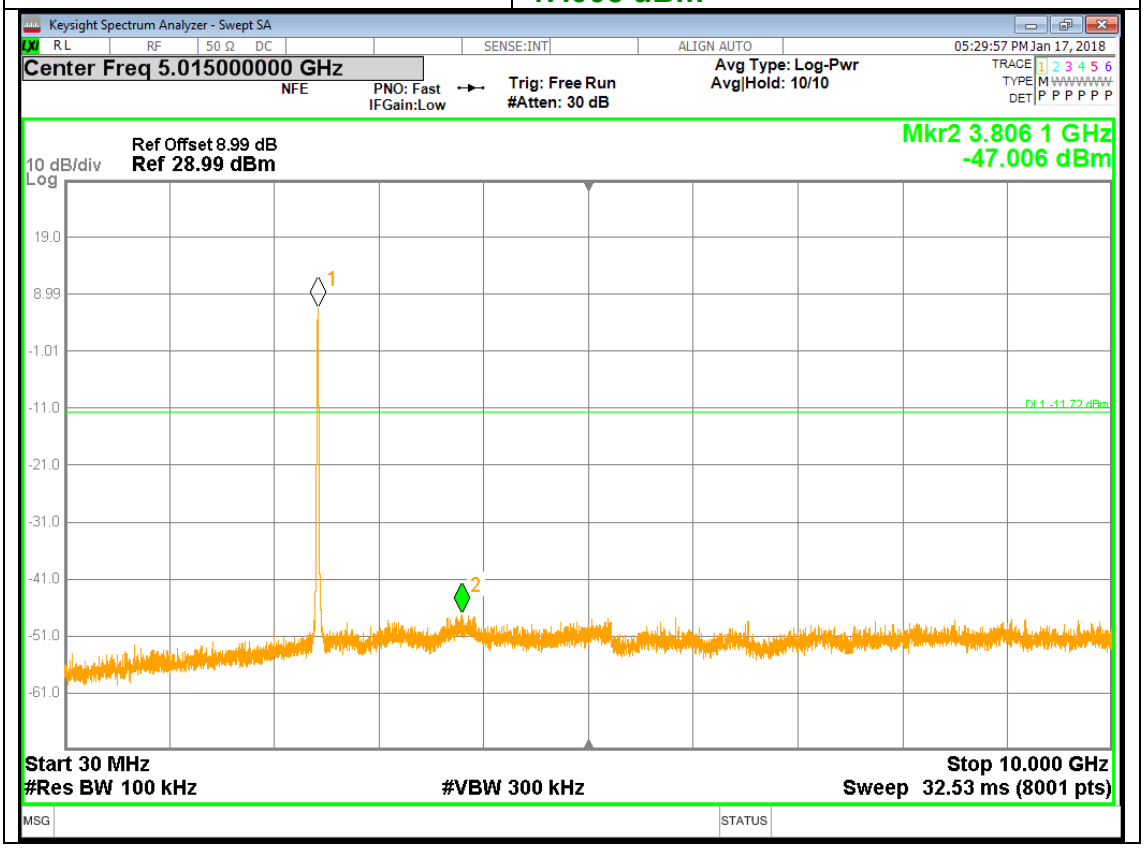
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3806.138MHz@-47.006 dBm**



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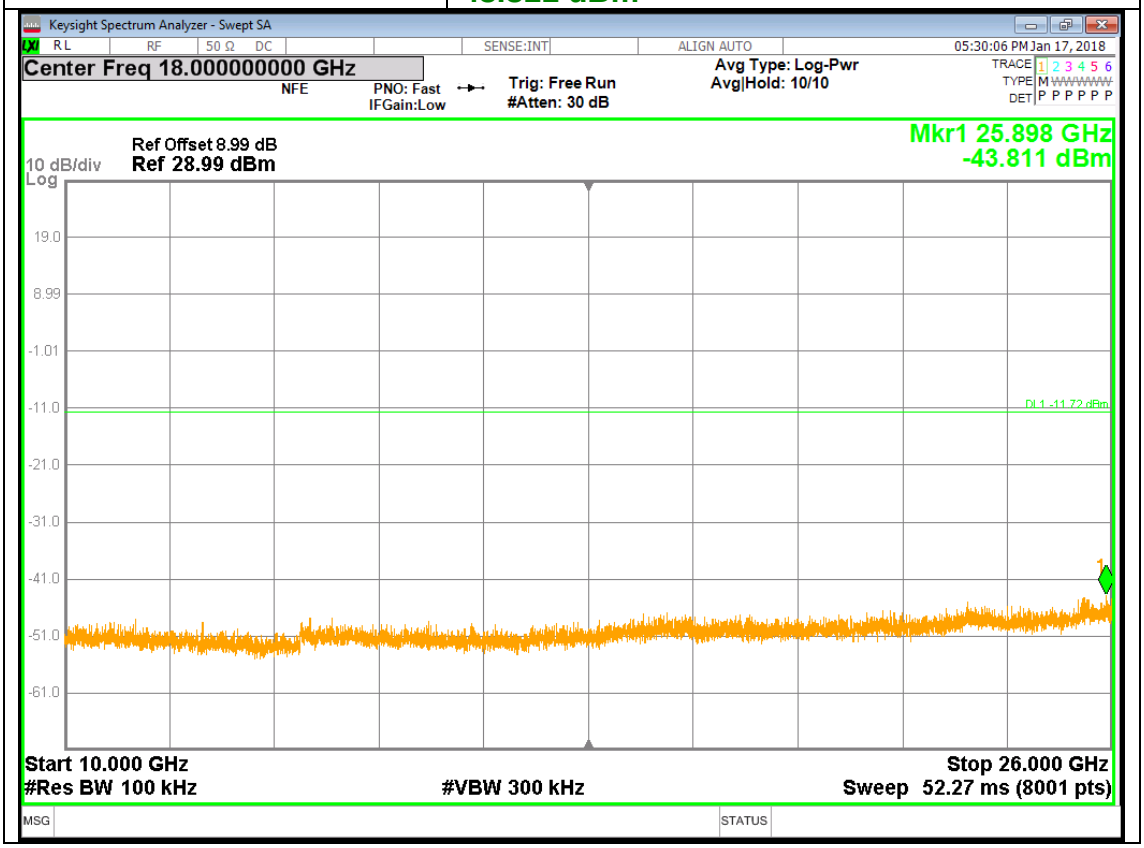
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25898.000MHz@-43.811 dBm**



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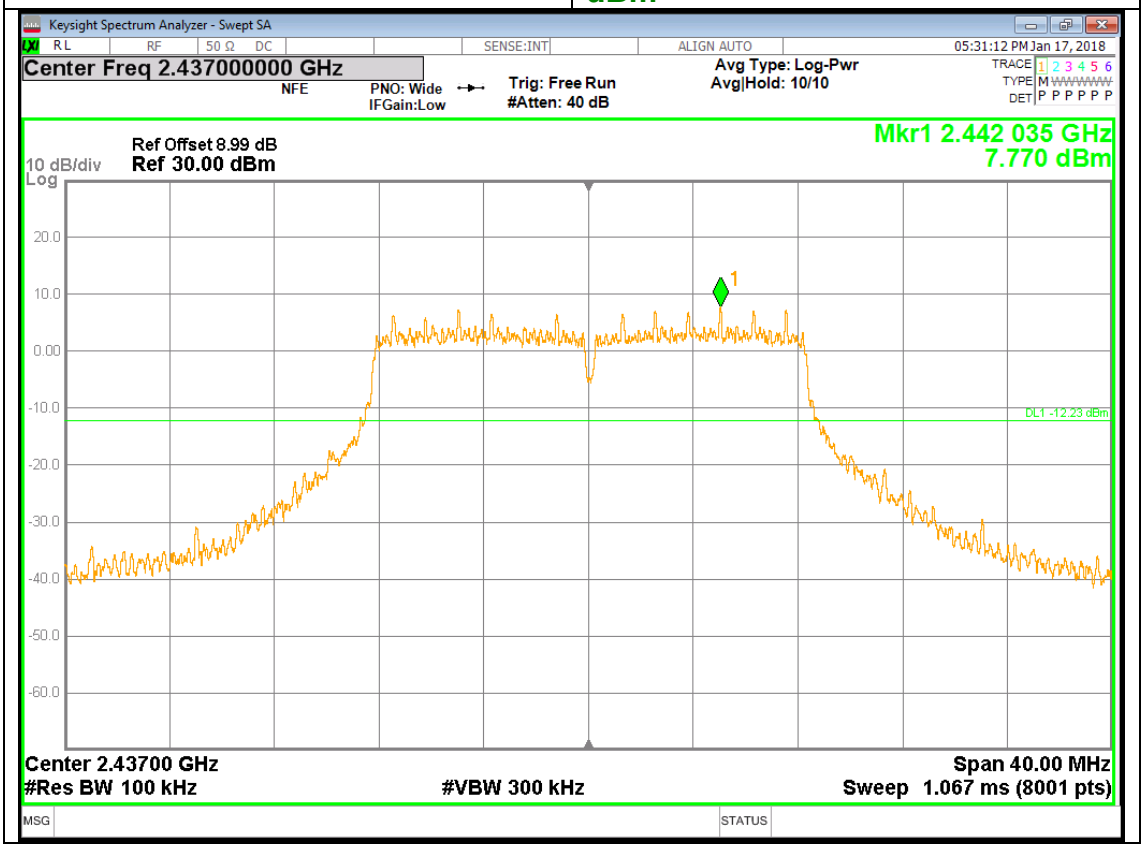
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2442.035MHz@7.770 dBm**



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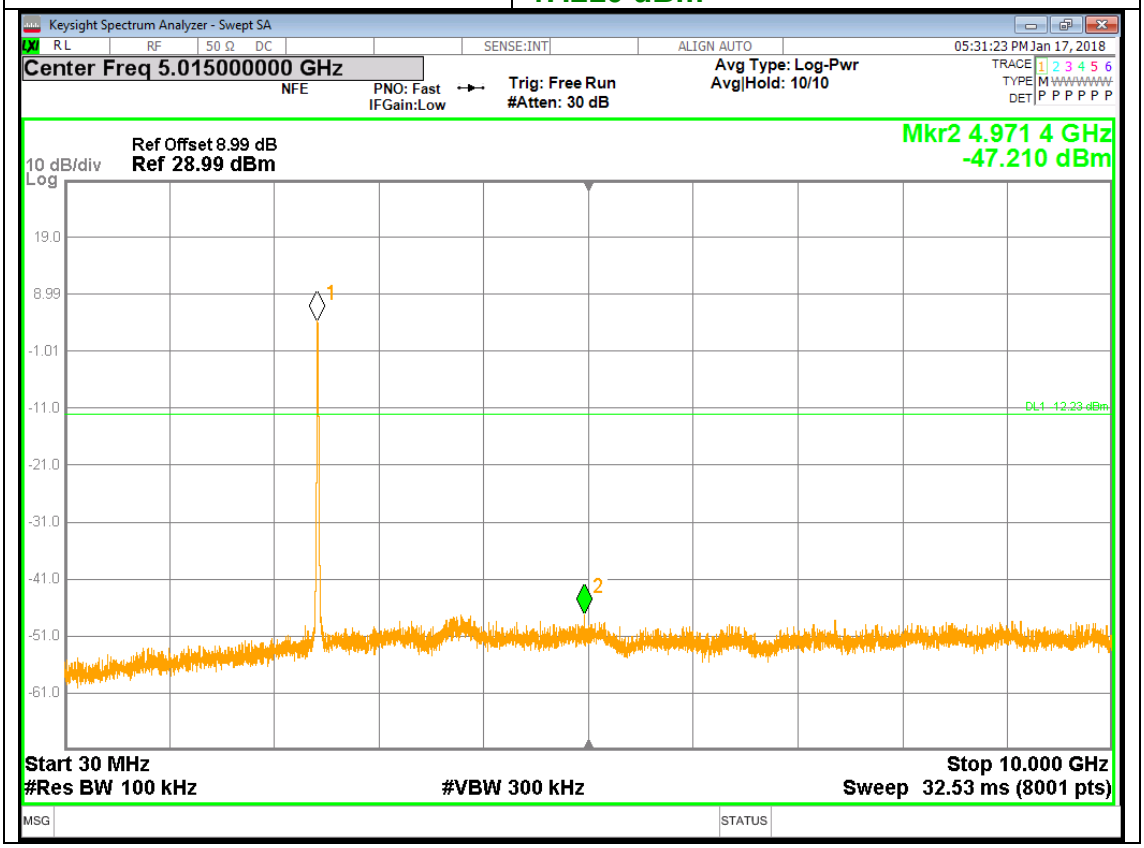
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;4971.381MHz@-47.210 dBm**



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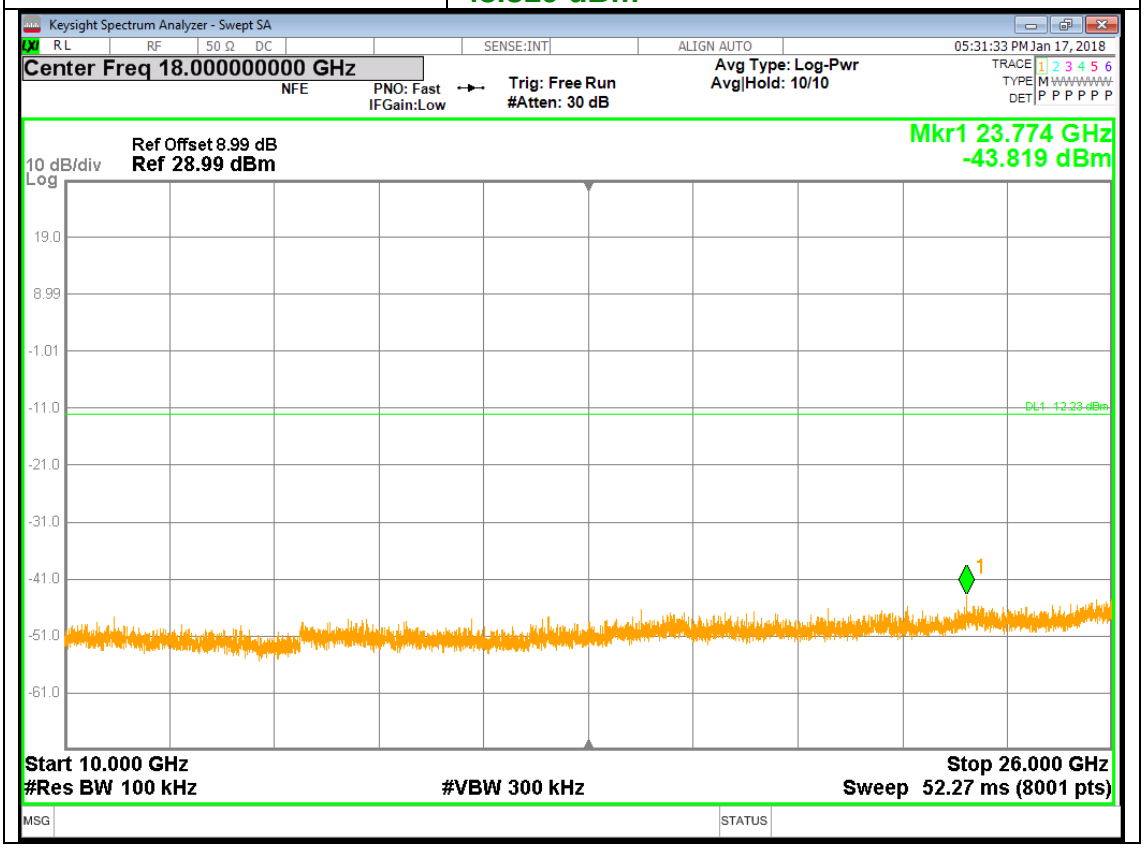
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;23774.000MHz@-43.819 dBm**



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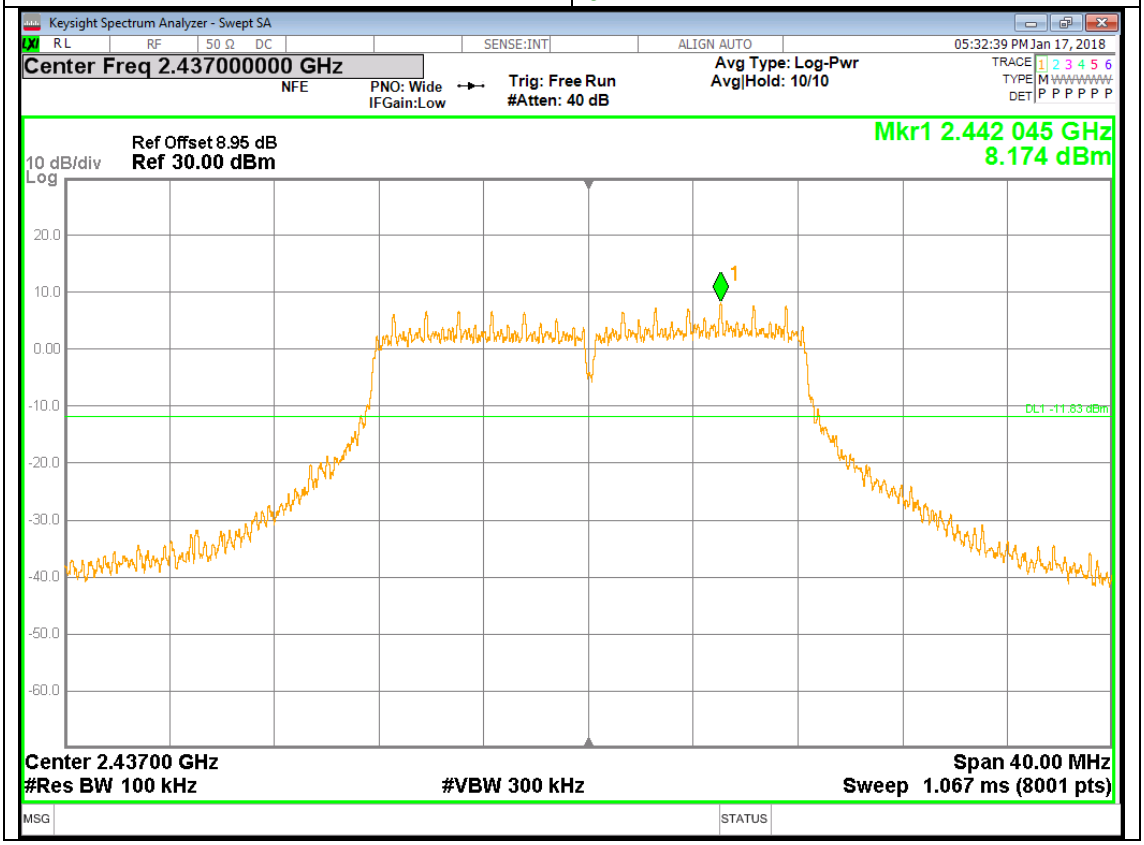
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2442.045MHz@8.174 dBm**



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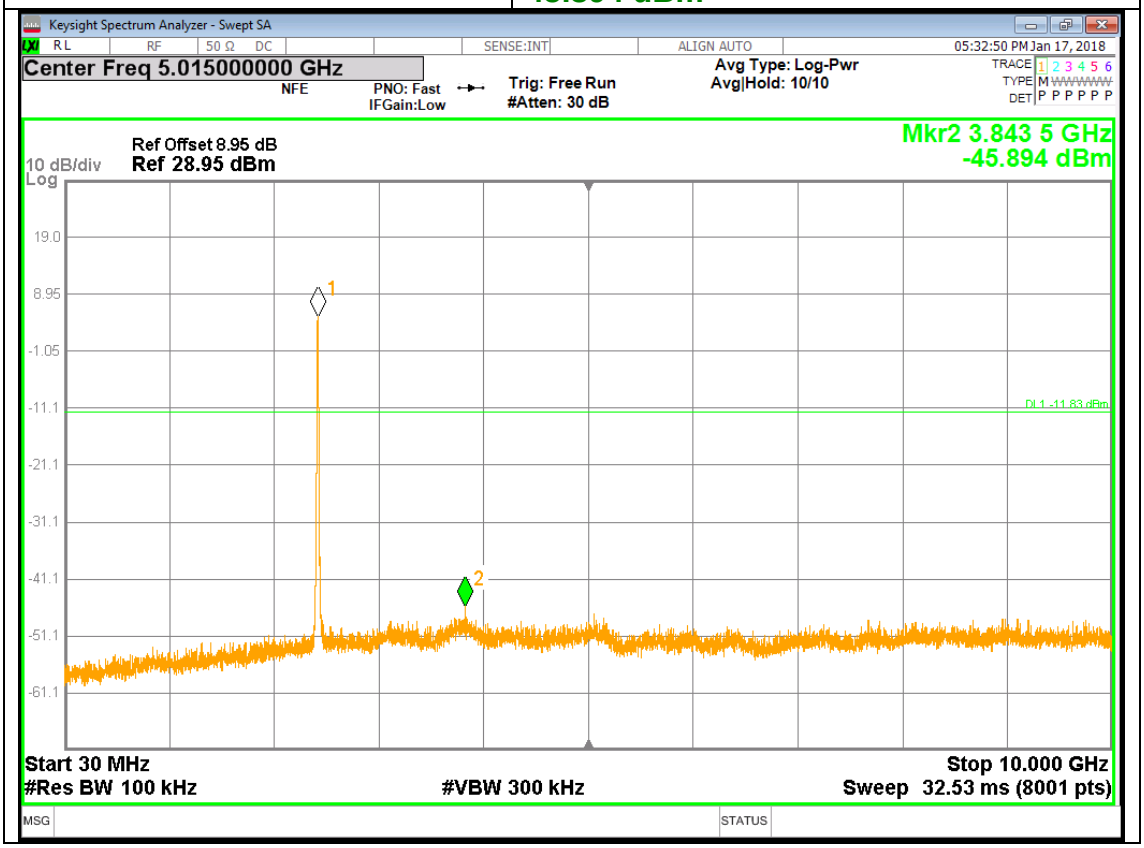
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3843.525MHz@-45.894 dBm**



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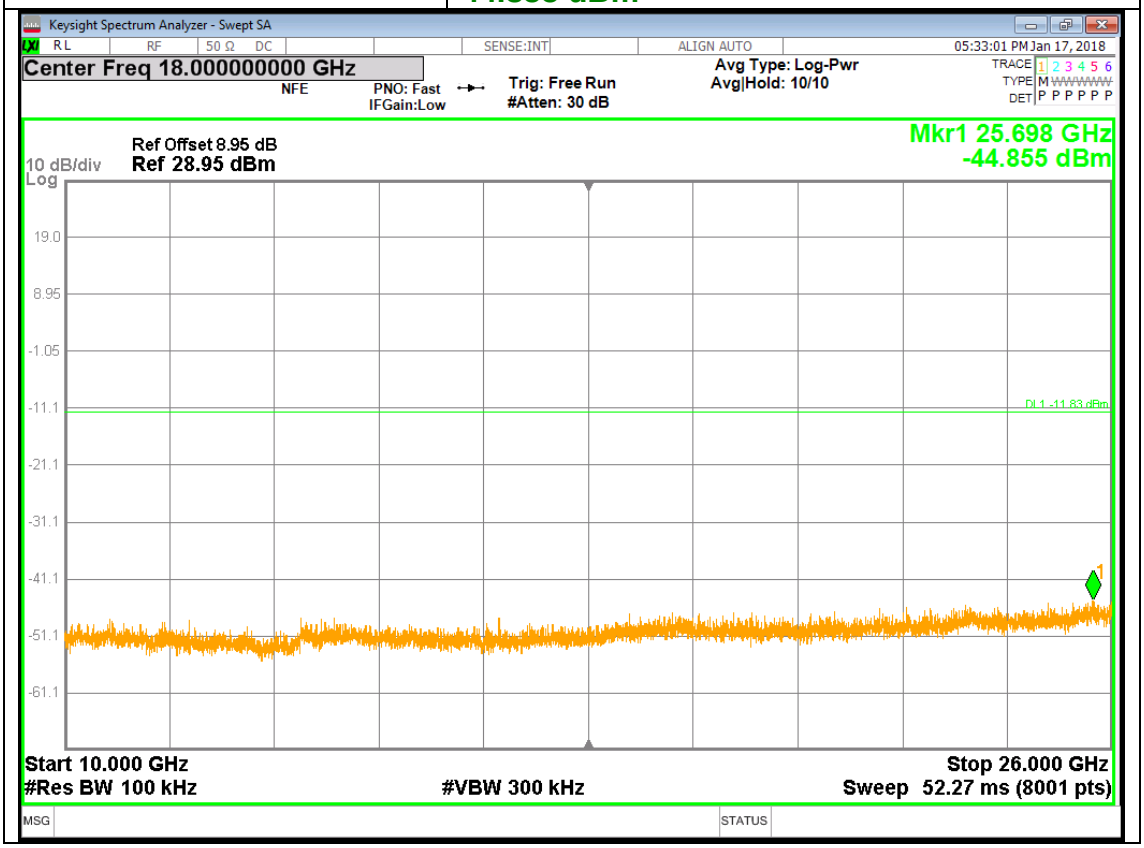
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25698.000MHz@-44.855 dBm**



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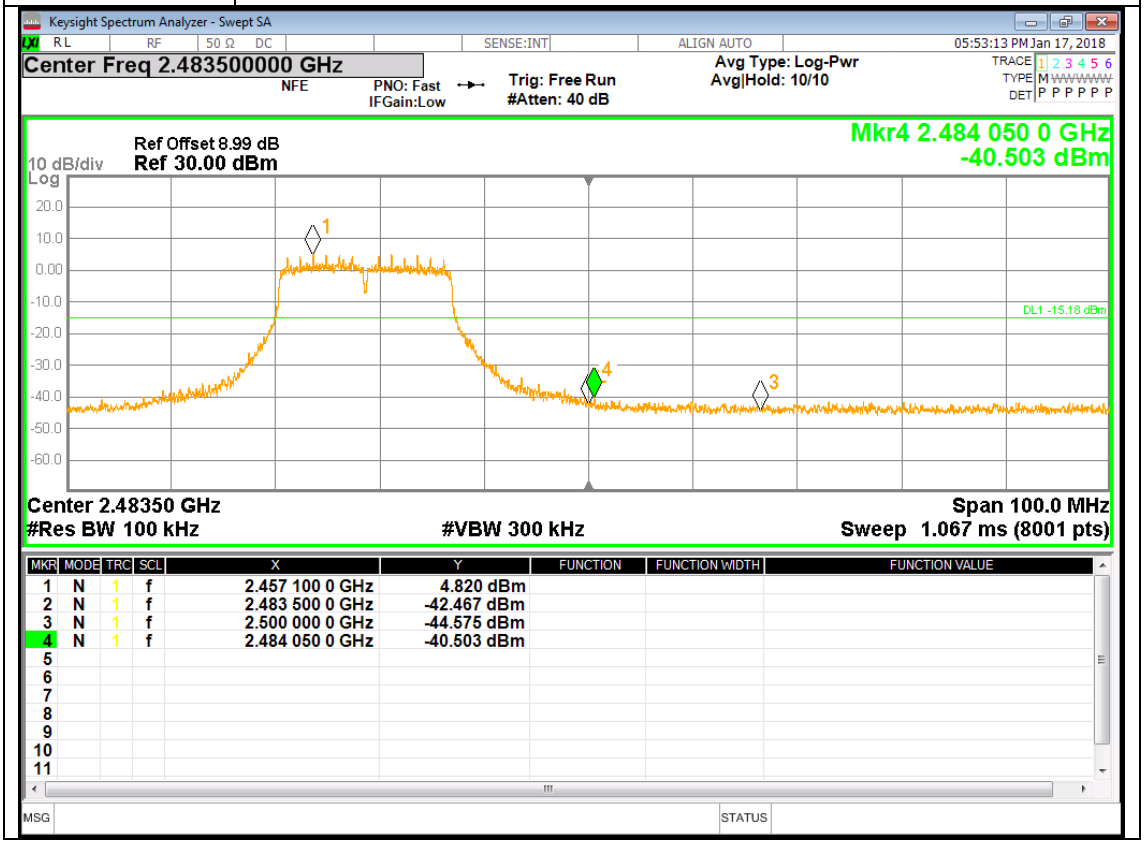
High Channel

Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:4.820dBm;Max:2484.050MHz@-40.503dBm45.323dbc**



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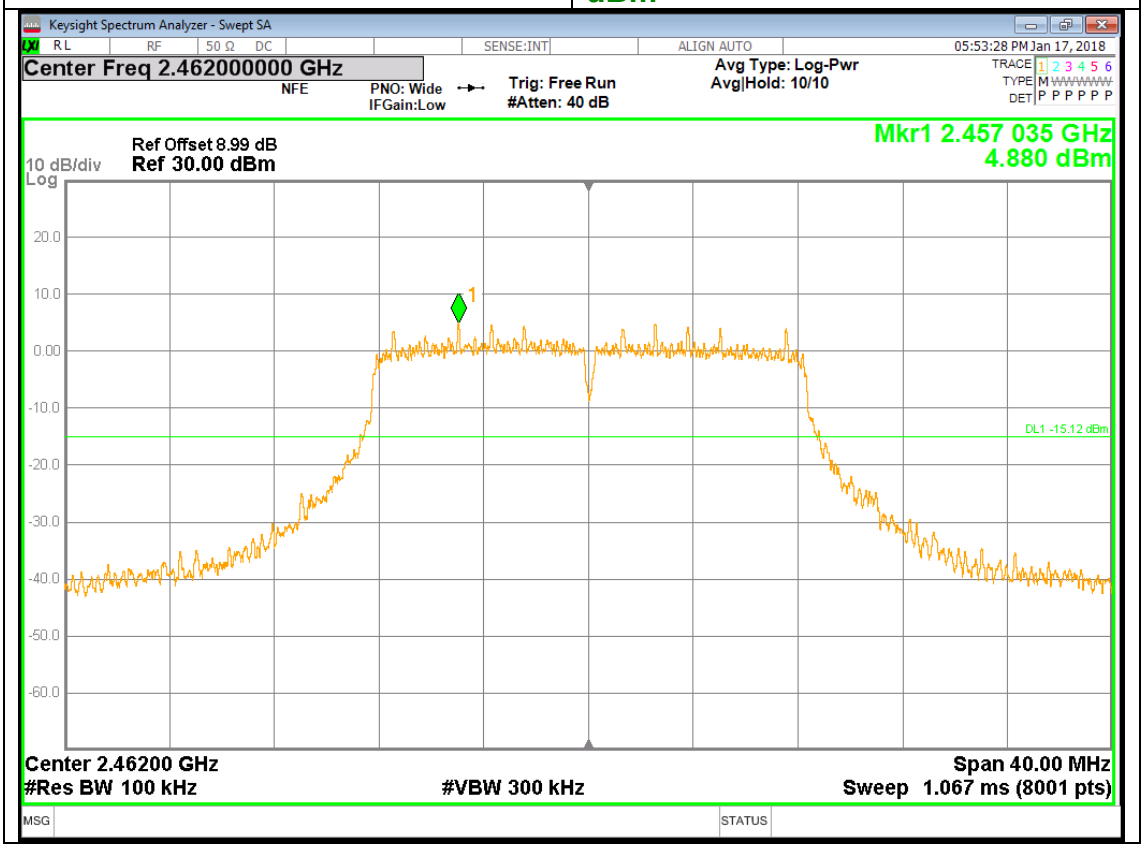
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2460.550MHz@9.984 dBm**



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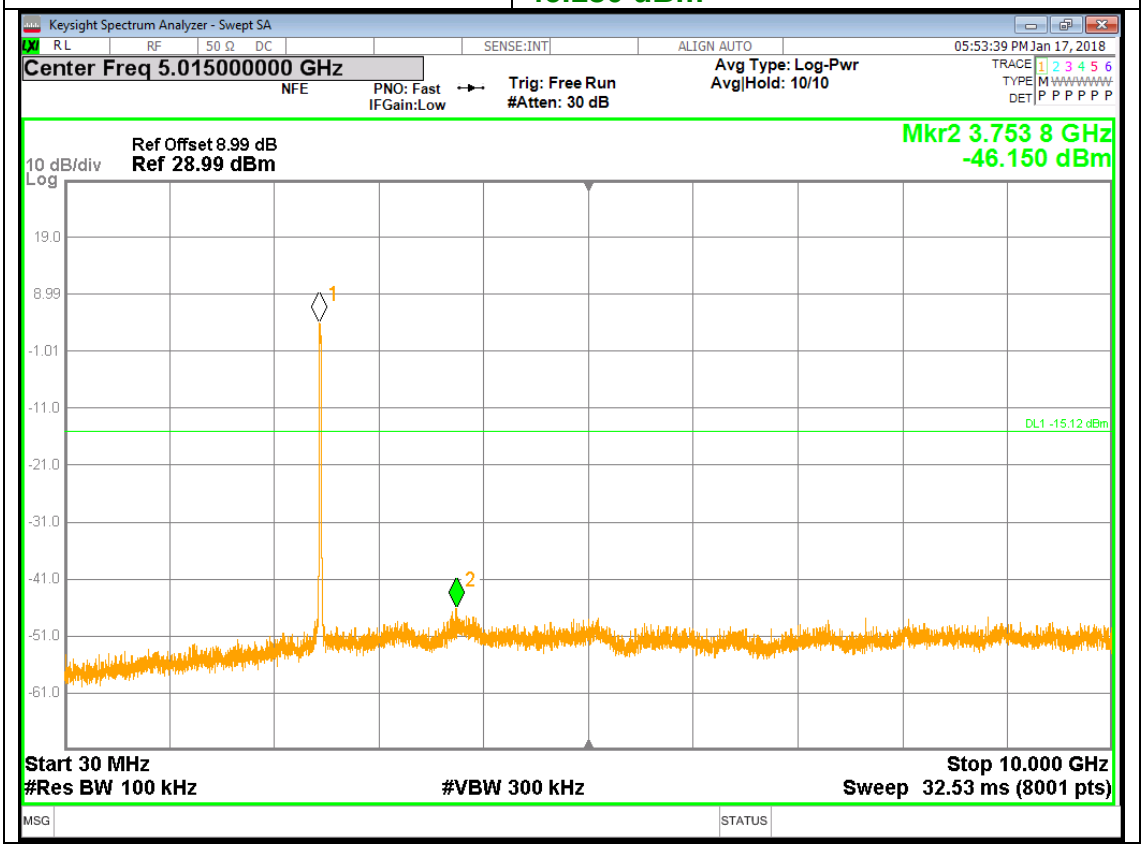
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3753.795MHz@-46.150 dBm**



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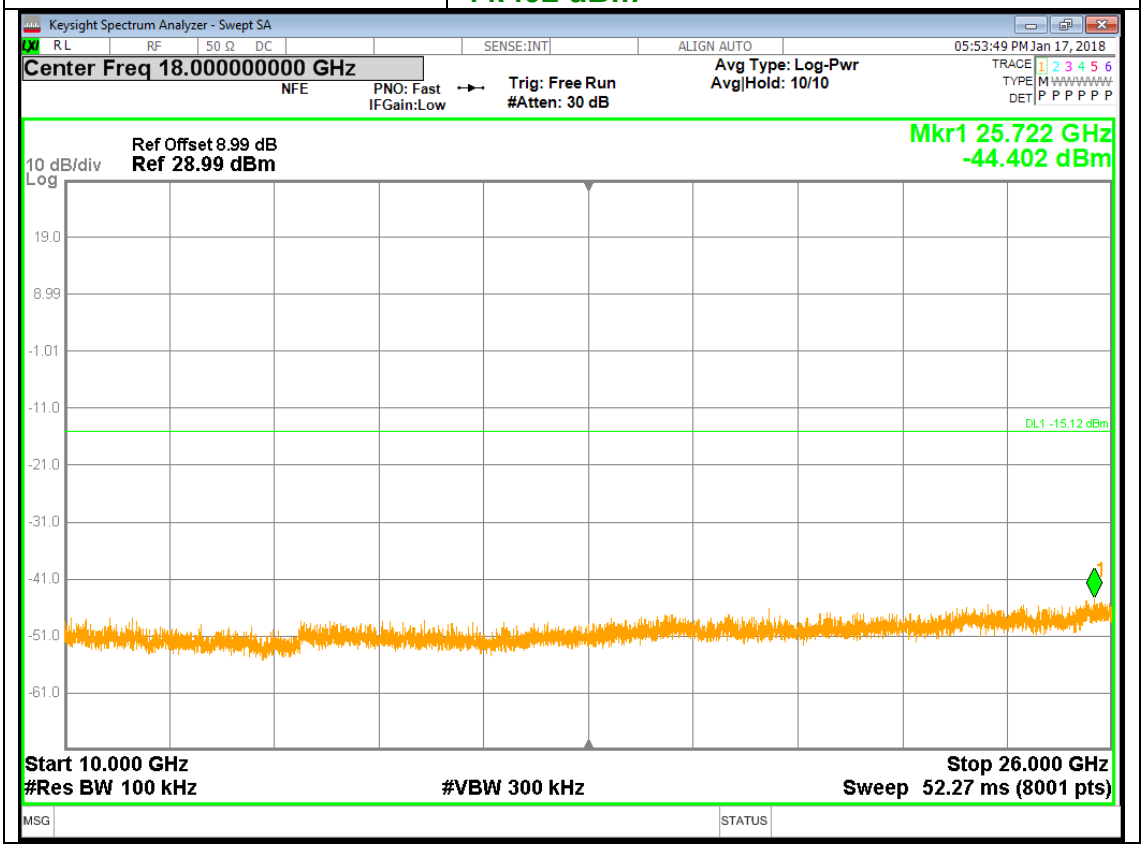
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25722.000MHz@-44.402 dBm**



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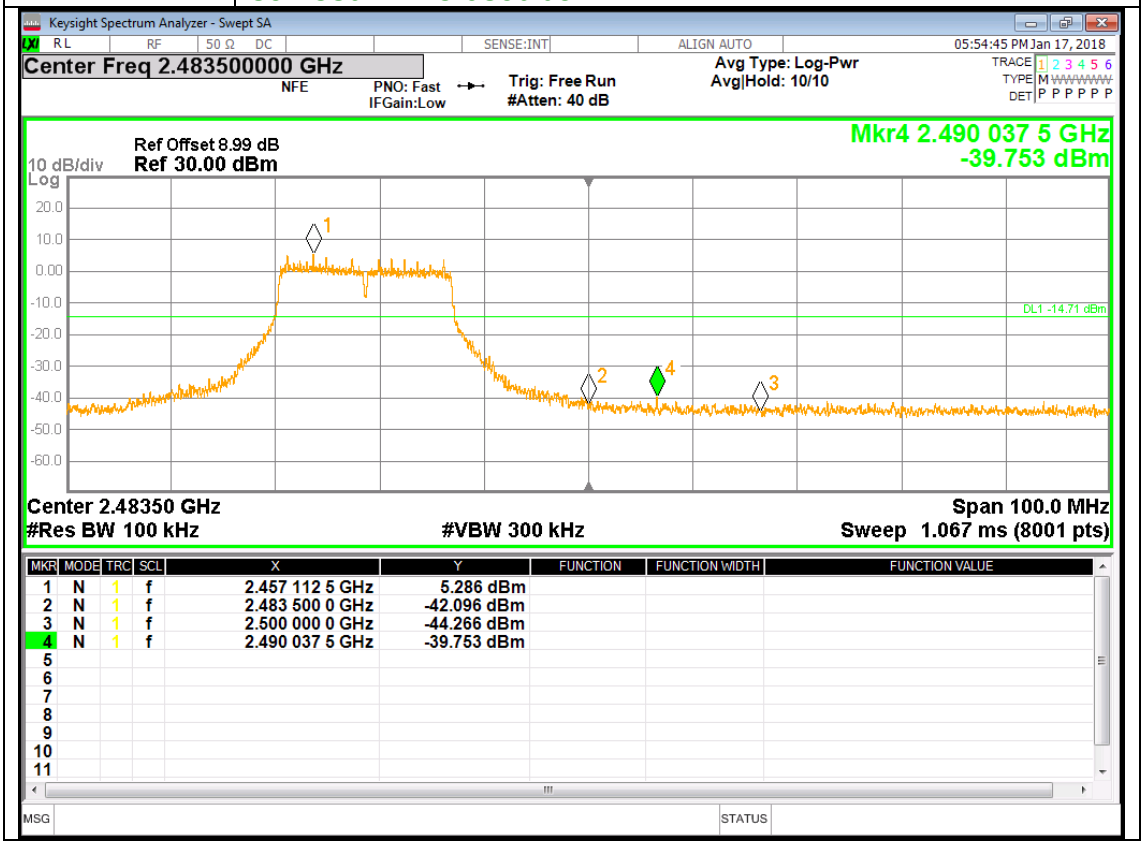
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:5.286dBm;Max:2490.038MHz@-39.753dBm45.039dbc**



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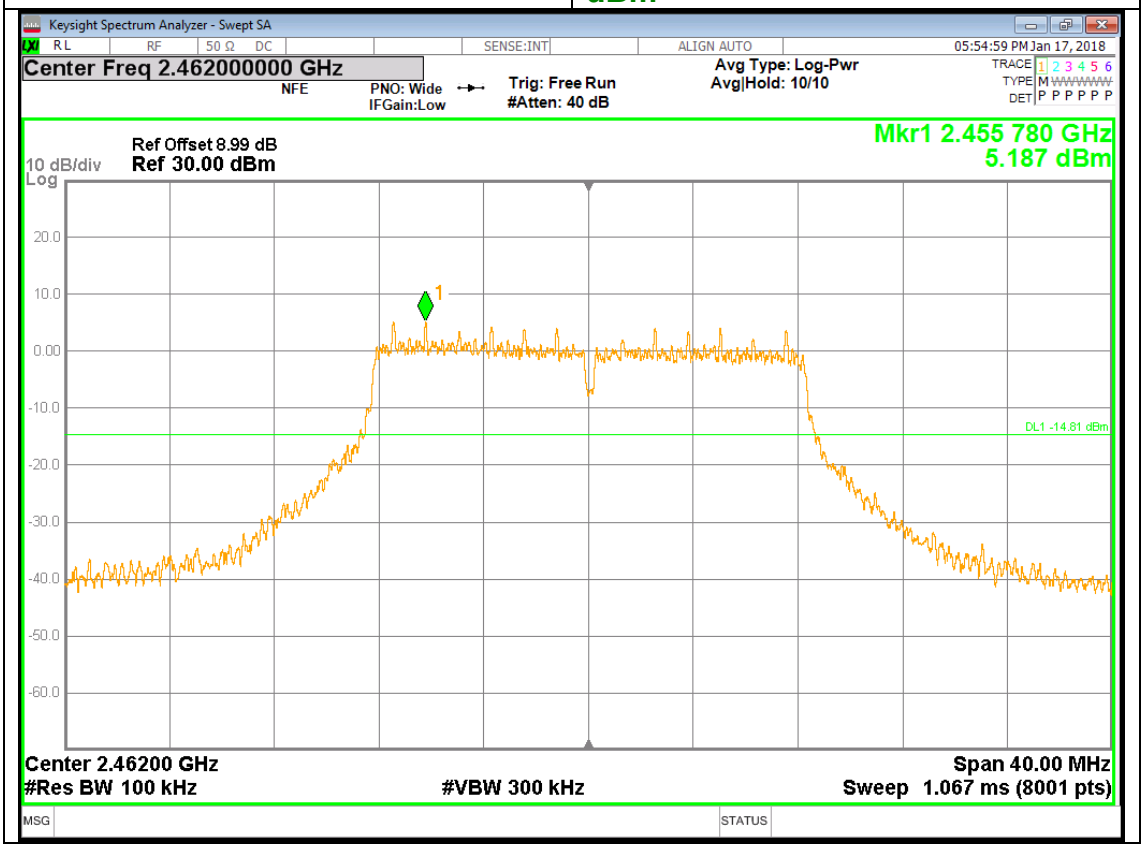
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2455.780MHz@5.187 dBm**



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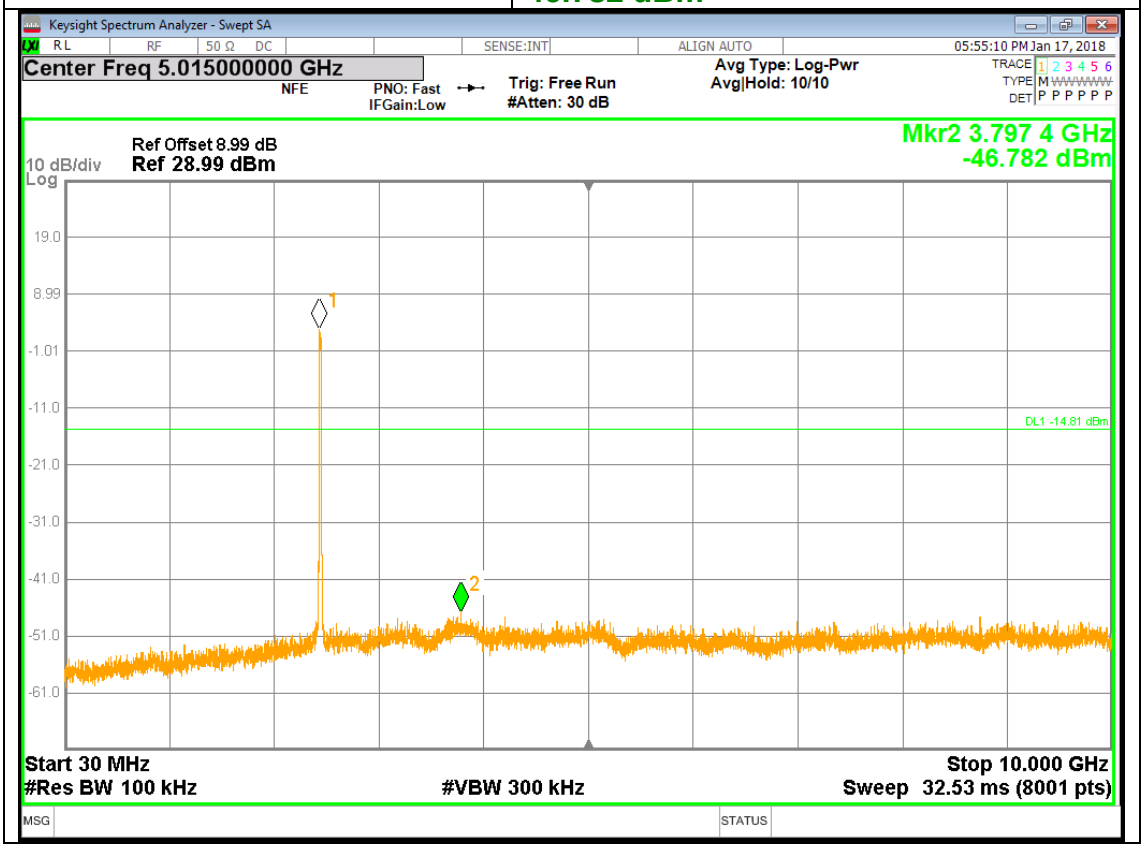
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3797.414MHz@-46.782 dBm**



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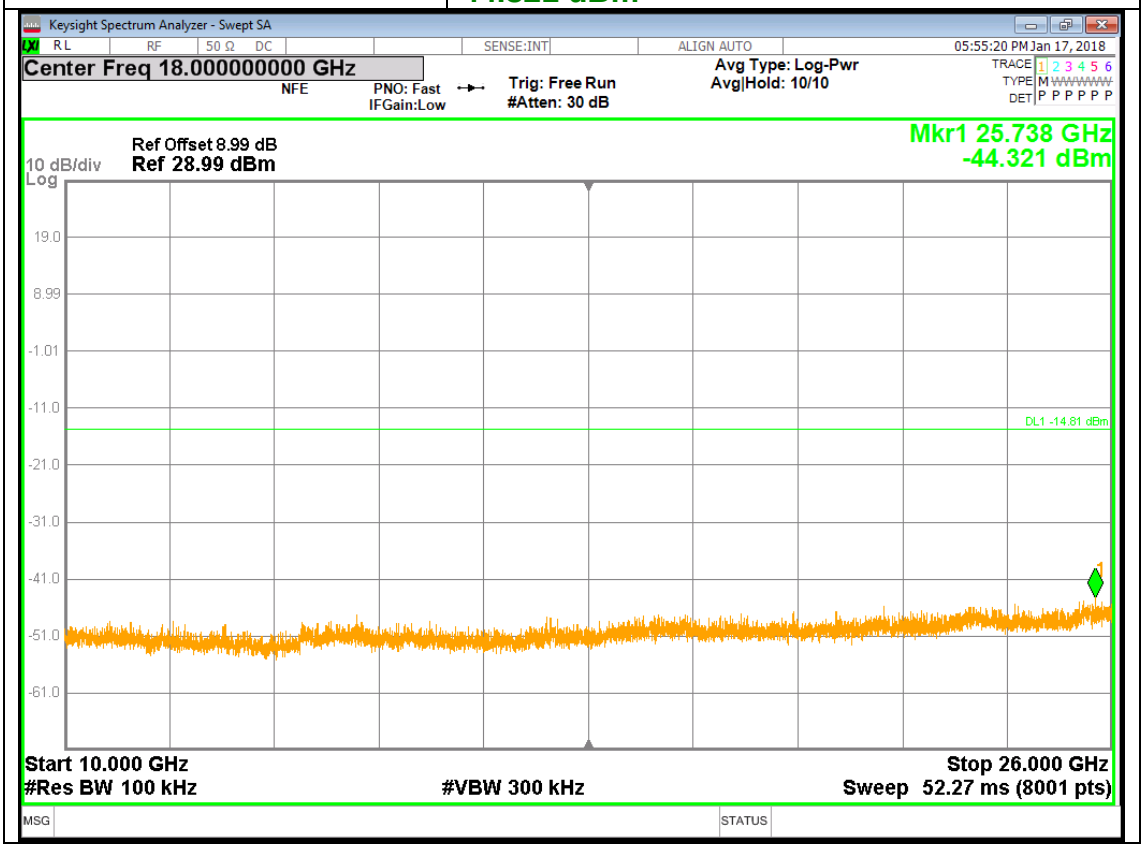
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25738.000MHz@-44.321 dBm**



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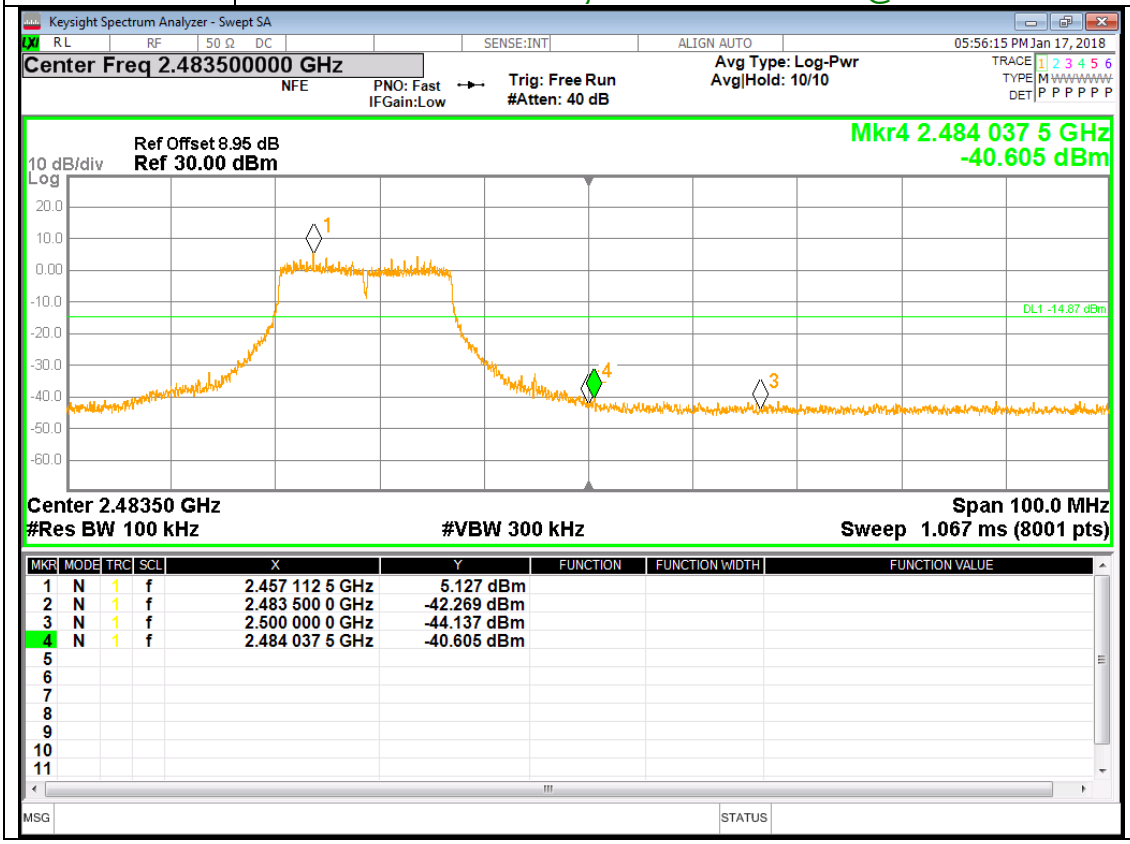
Test Case: Bandedge Compliance	
Mode: 11G	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:5.127dBm;Max:2484.038MHz@40.605dBm45.732dbc**



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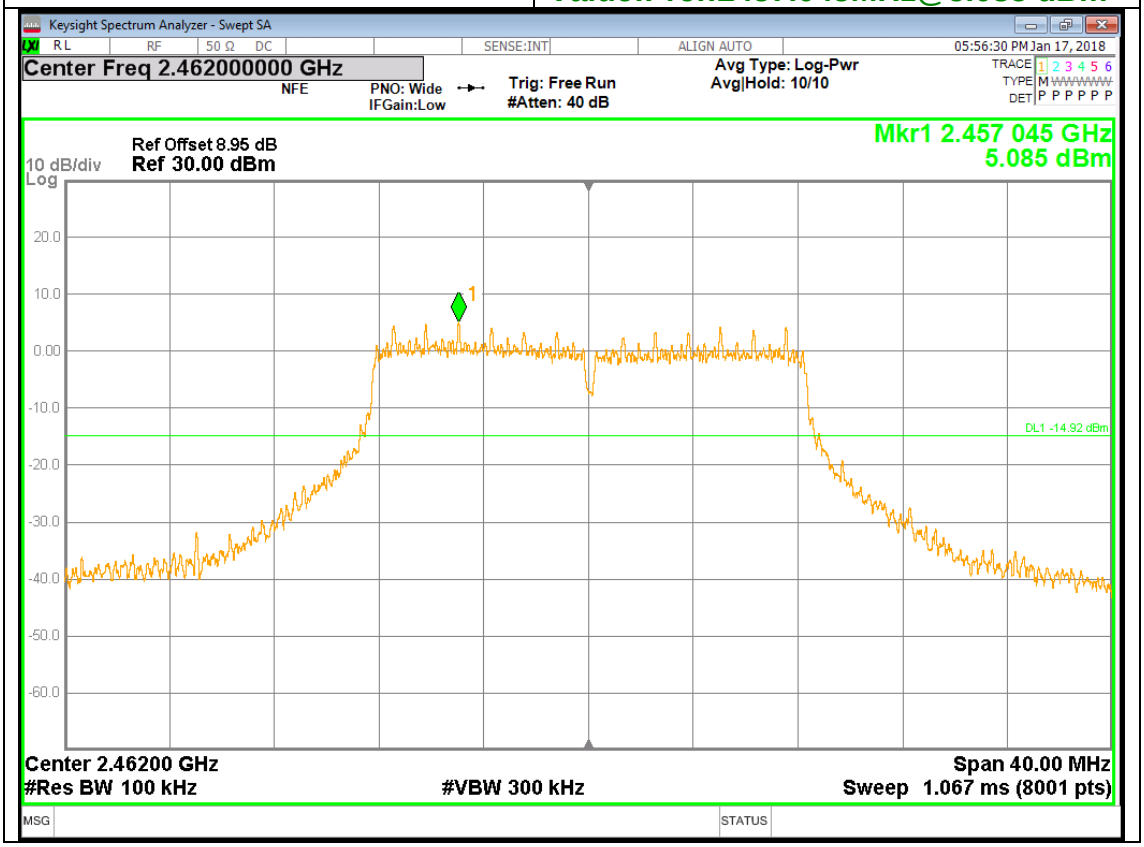
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2457.045MHz@5.085 dBm**



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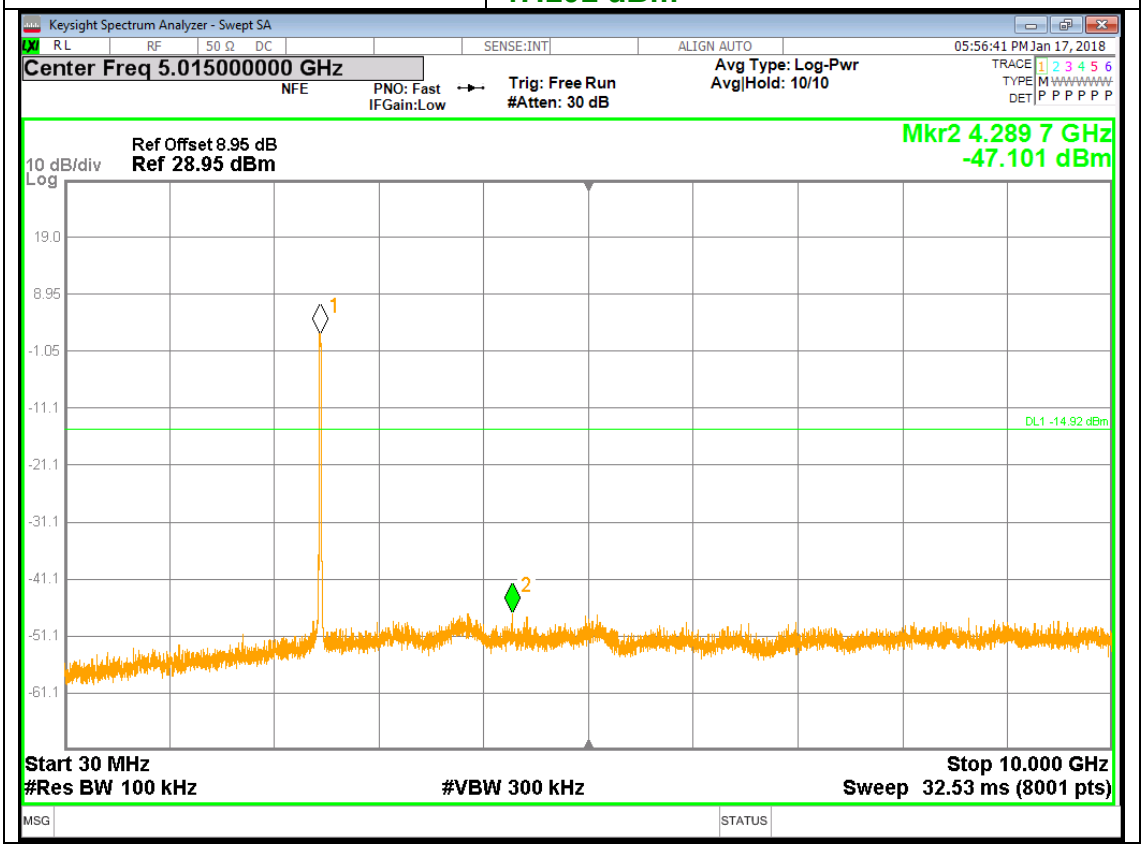
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;4289.683MHz@-47.101 dBm**



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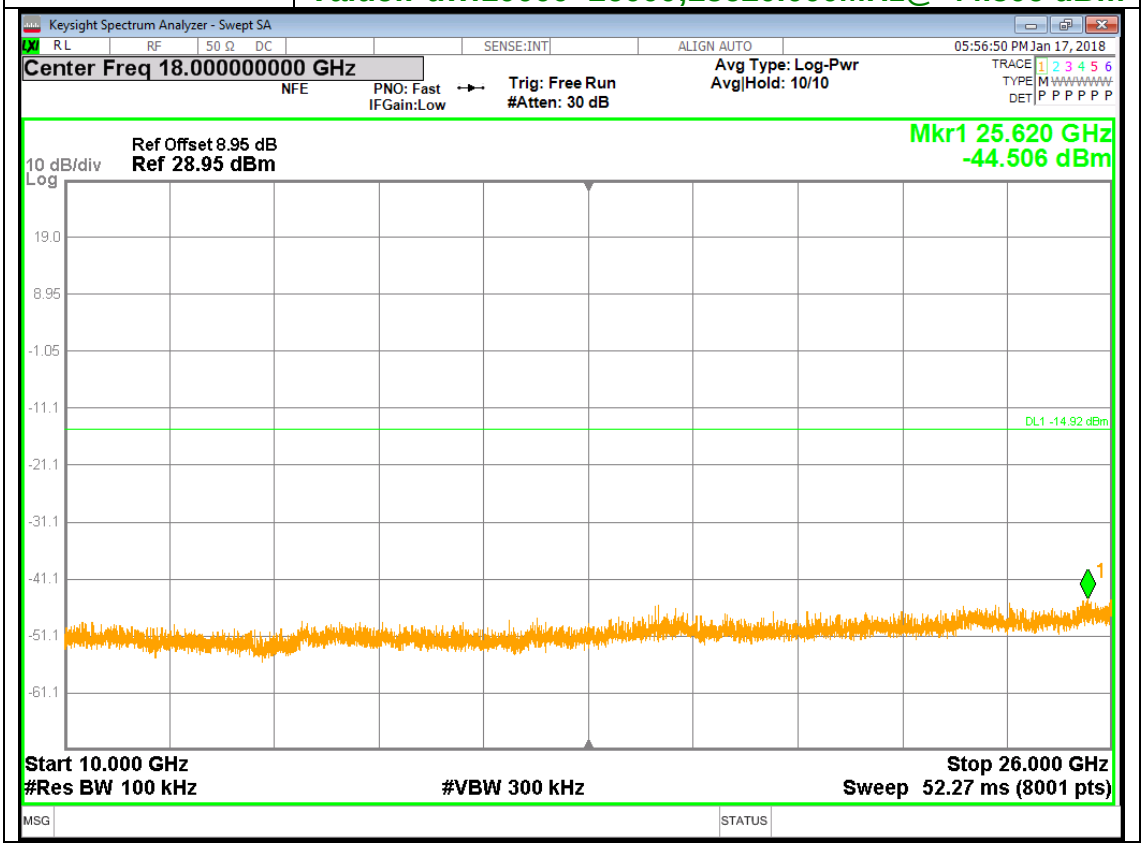
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25620.000MHz@-44.506 dBm**



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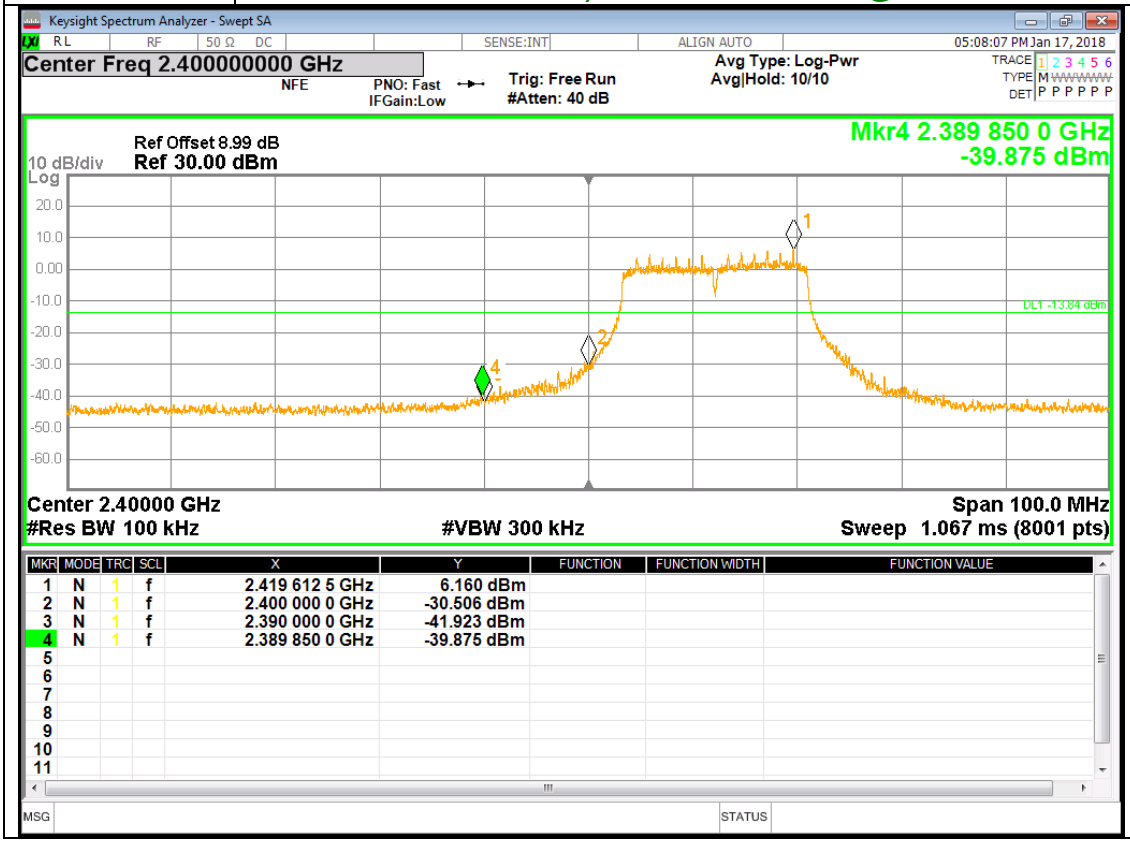
7.5.3. 802.11n20 3TX MODE

Low Channel

Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:6.160dBm;Max:2389.850MHz@39.875dBm46.035dbc**



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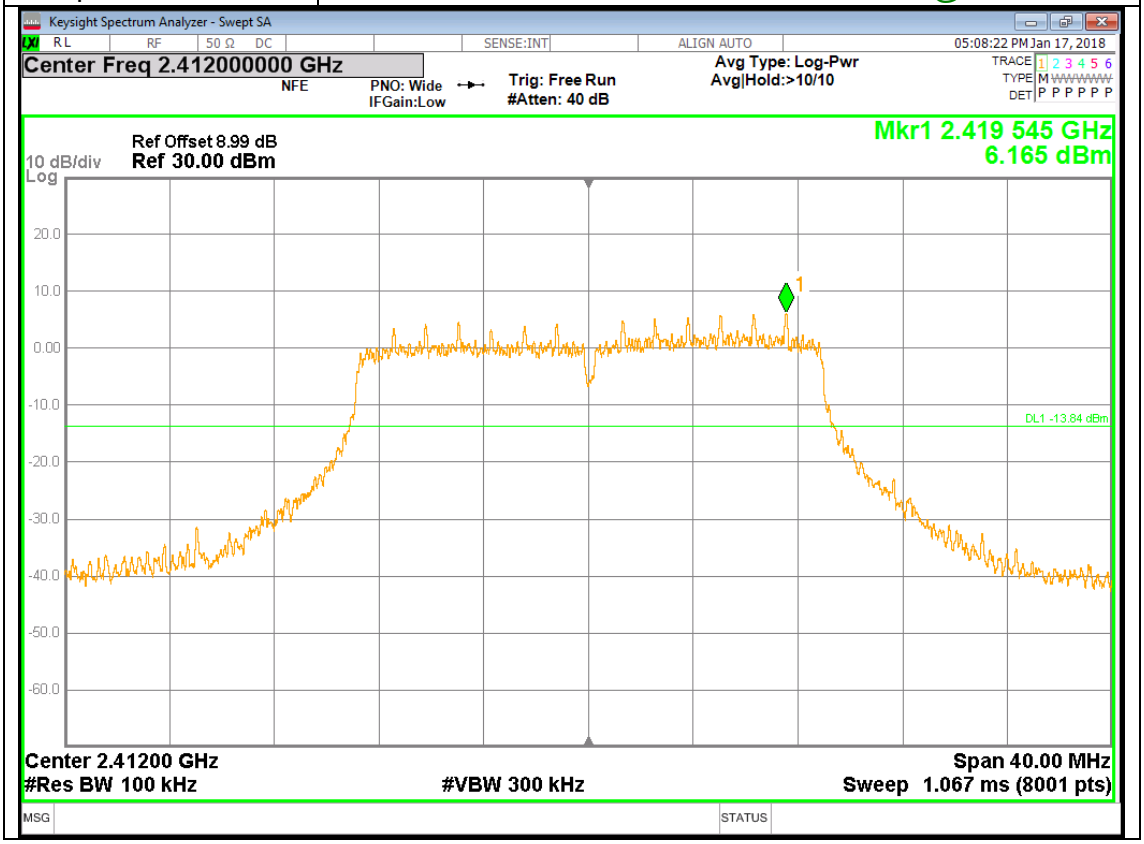
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2419.545MHz@6.165 dBm**



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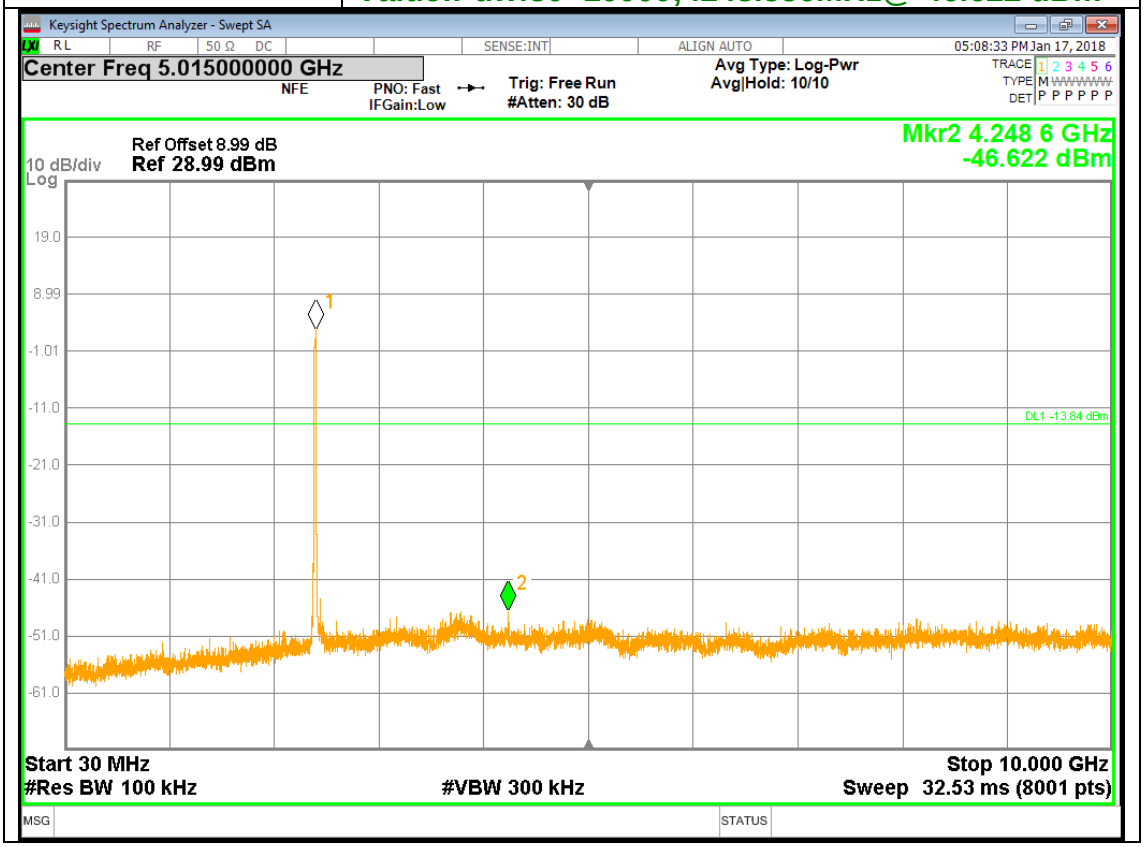
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;4248.556MHz@-46.622 dBm**



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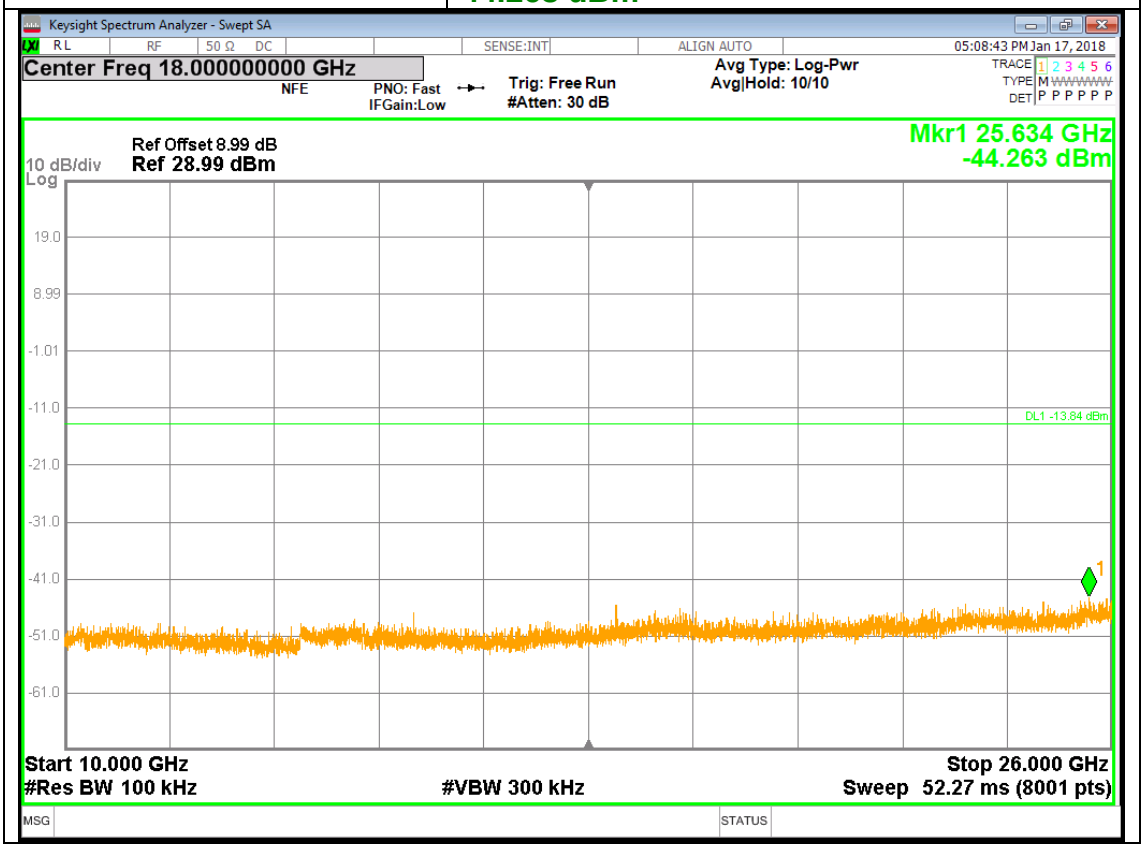
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25634.000MHz@-44.263 dBm**



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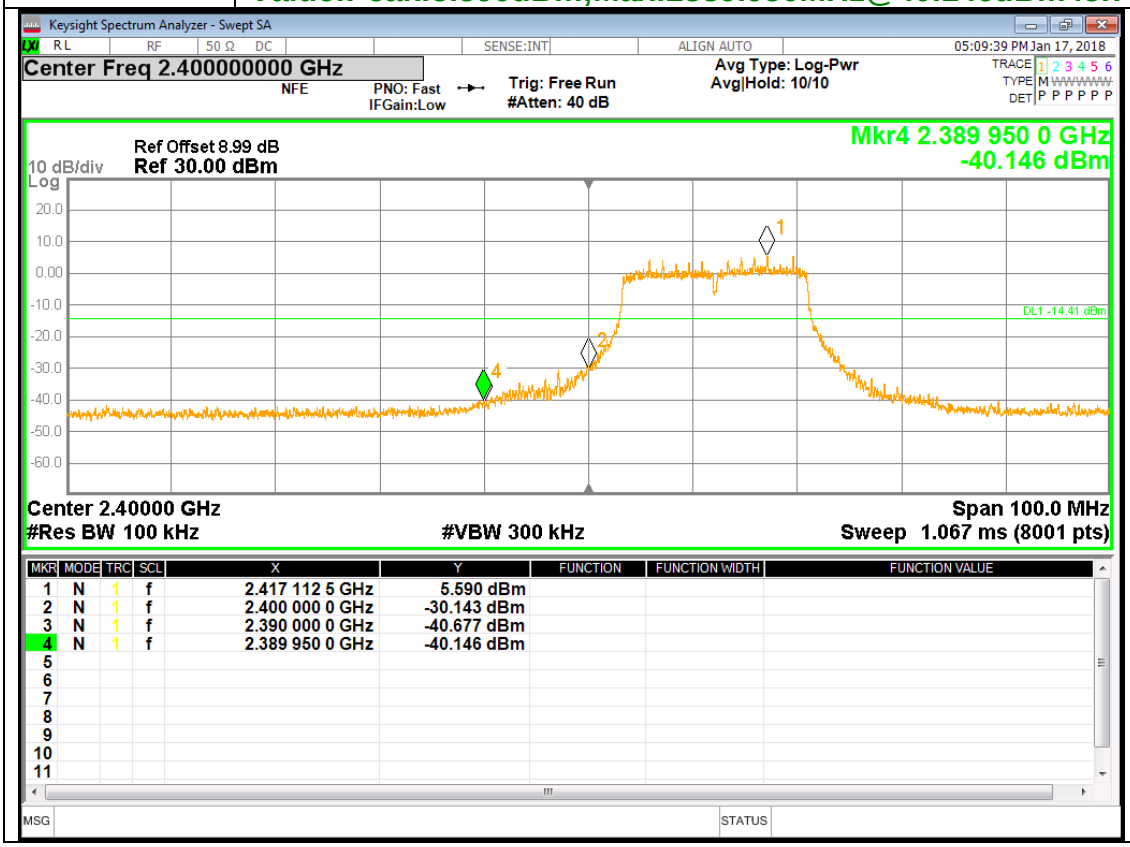
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:5.590dBm;Max:2389.950MHz@40.146dBm45.736dbc**



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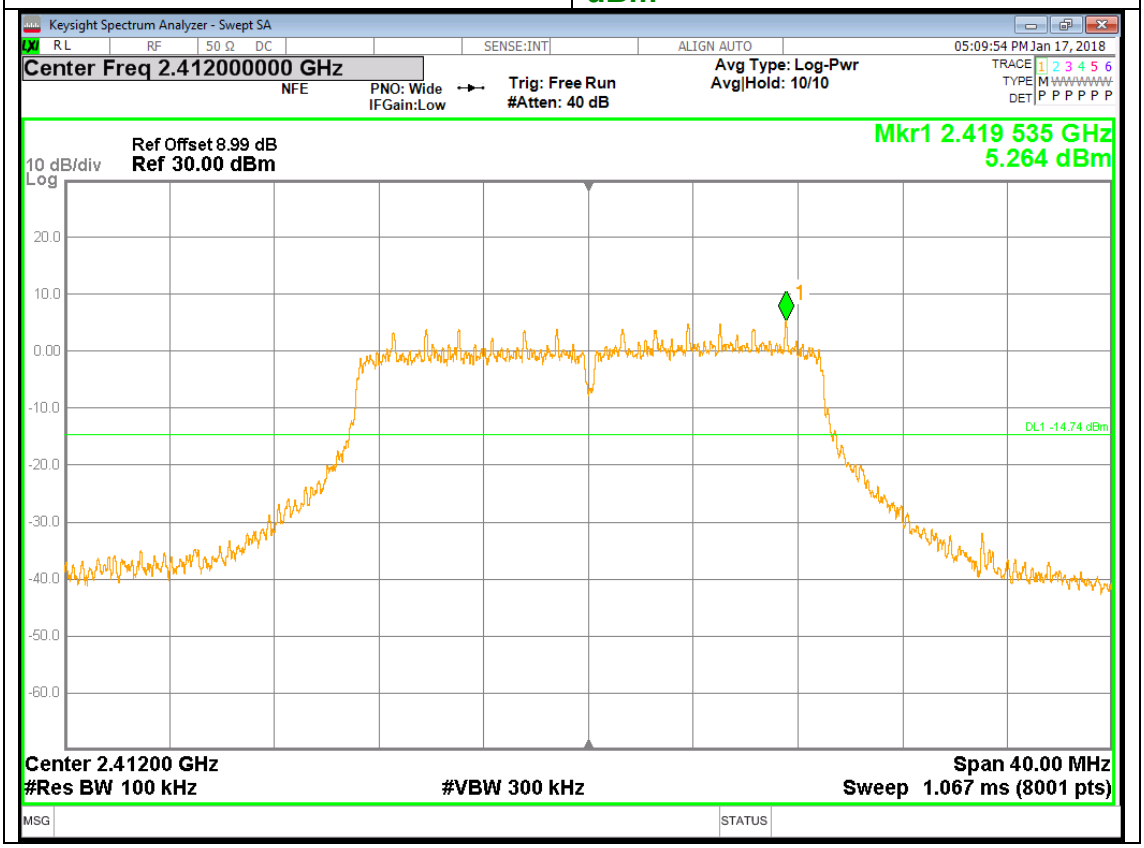
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2419.535MHz@5.264 dBm**



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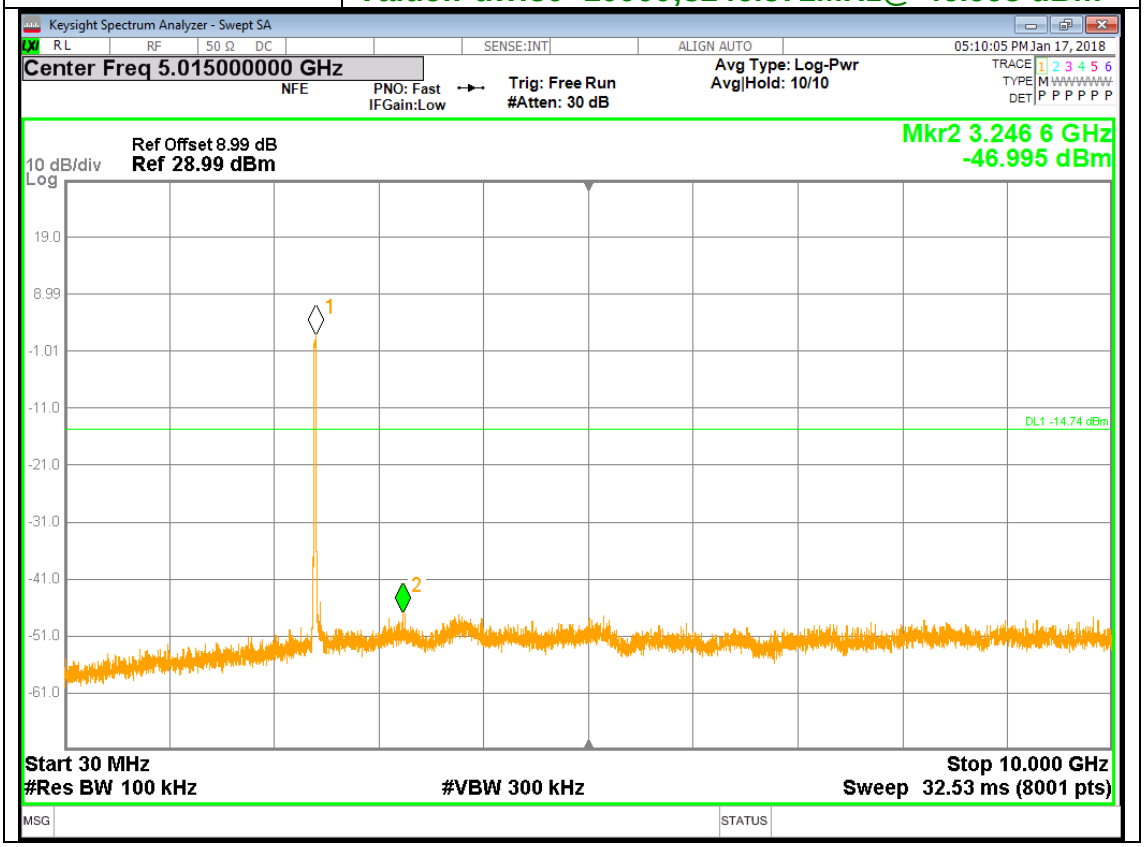
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3246.571MHz@-46.995 dBm**



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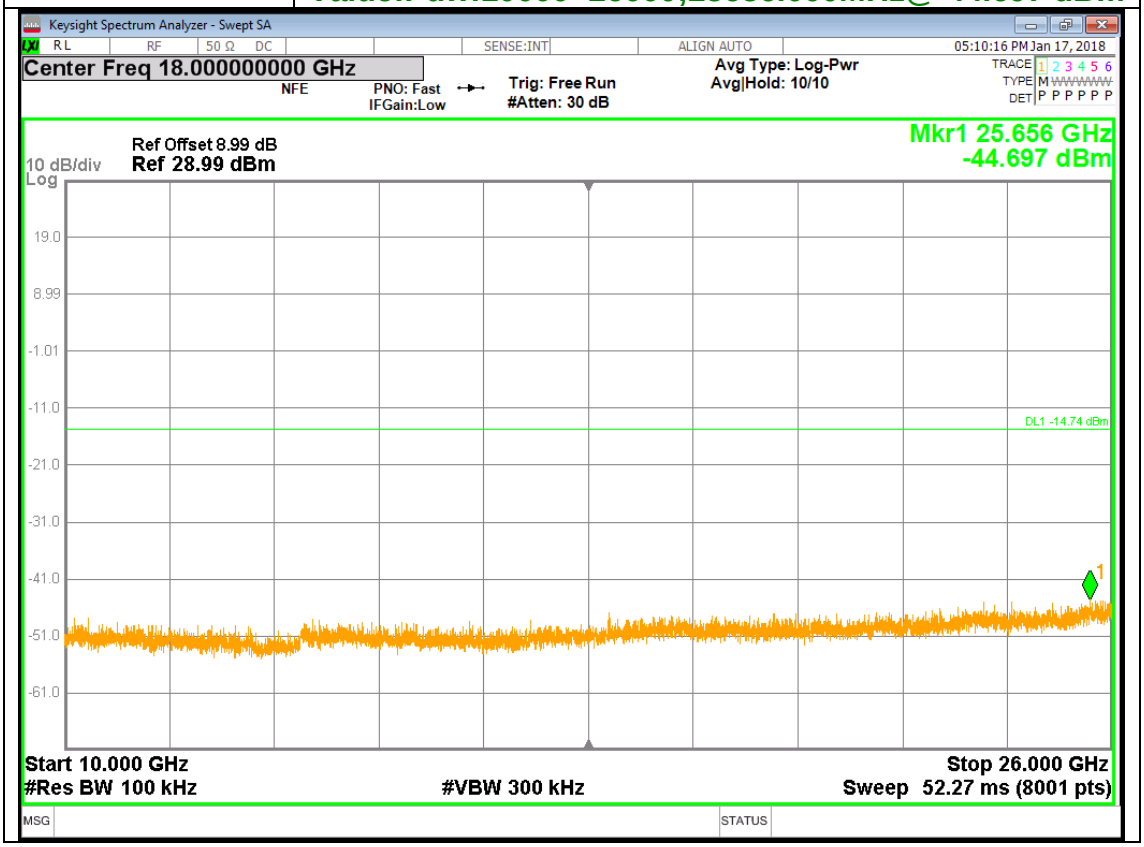
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25656.000MHz@-44.697 dBm**



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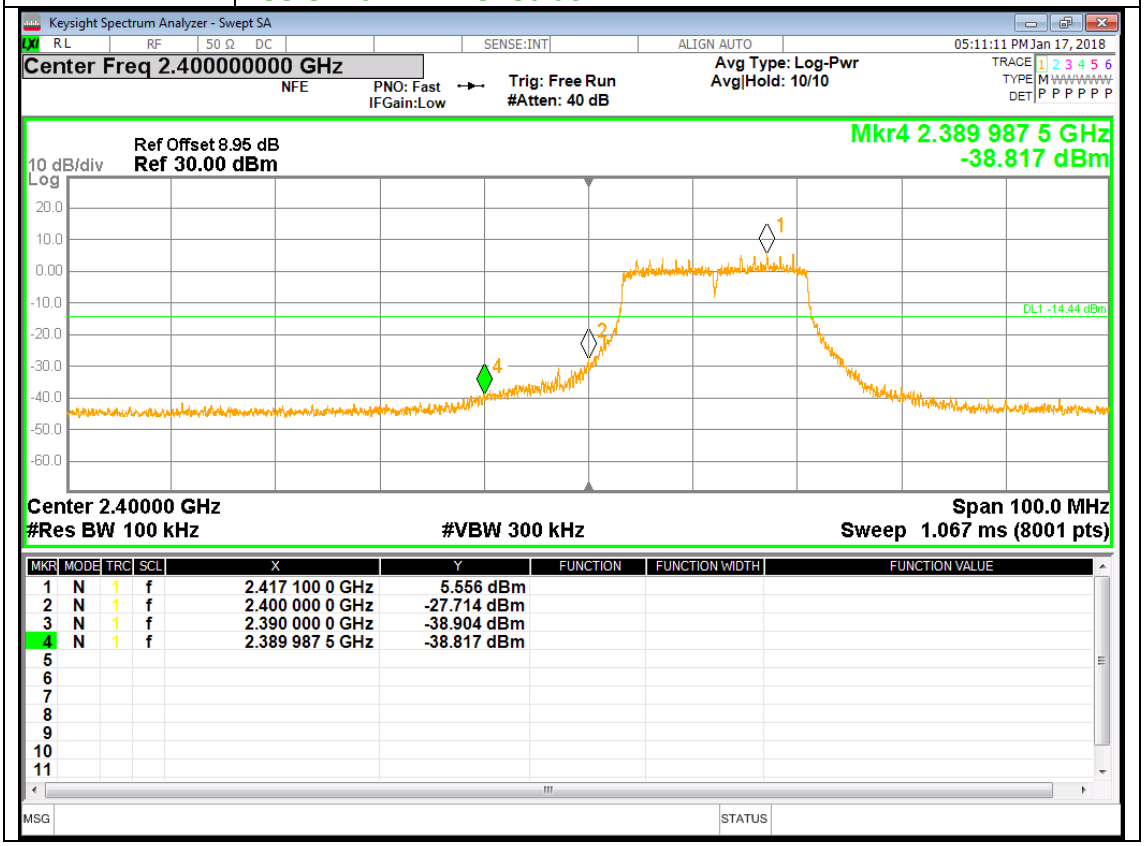
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:5.556dBm;Max:2389.988MHz@ -38.817dBm44.373dbc**



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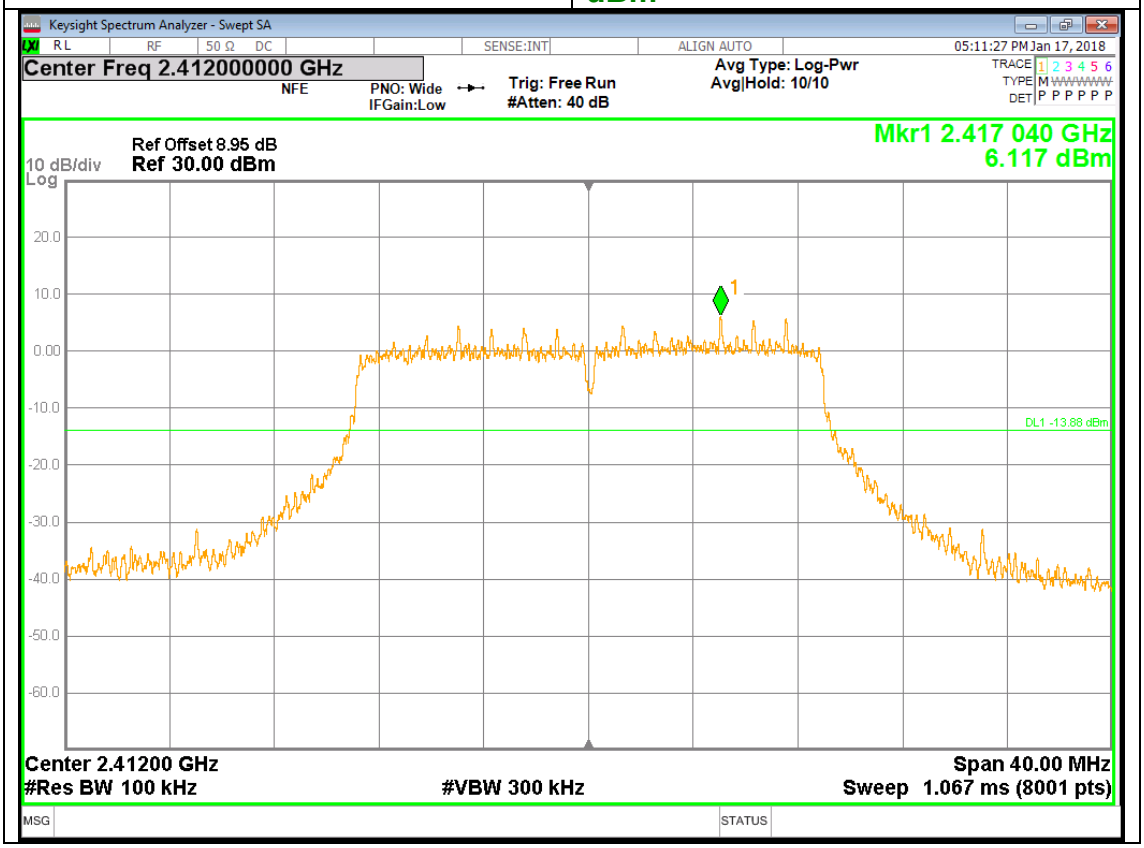
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11G	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2417.040MHz@6.117 dBm**



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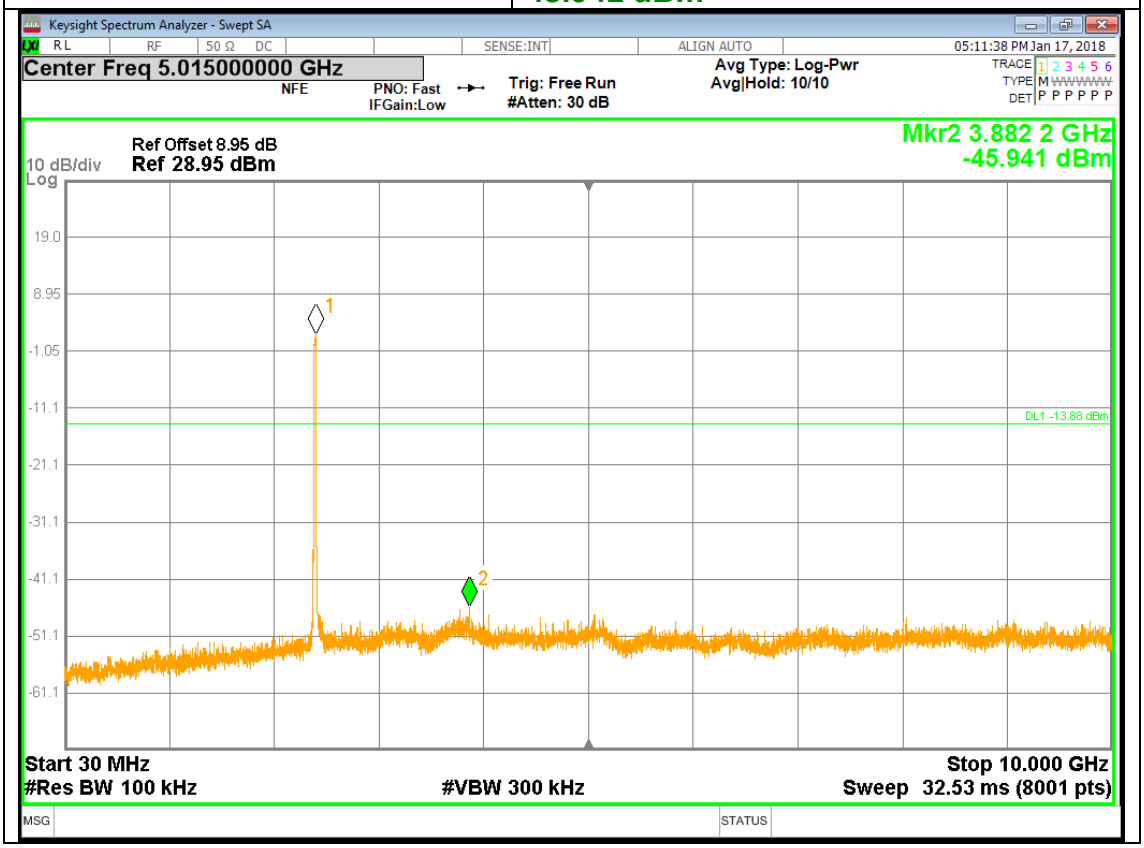
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3882.159MHz@-45.941 dBm**



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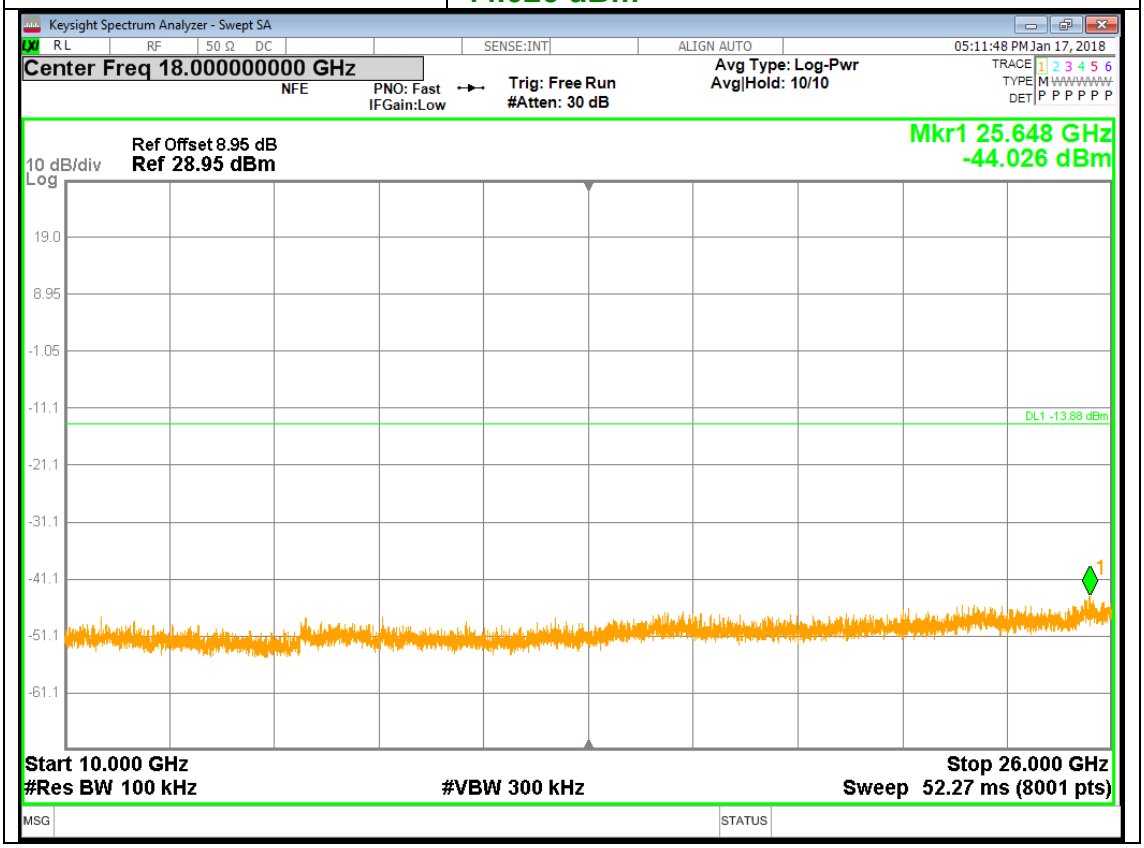
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25648.000MHz@-44.026 dBm**



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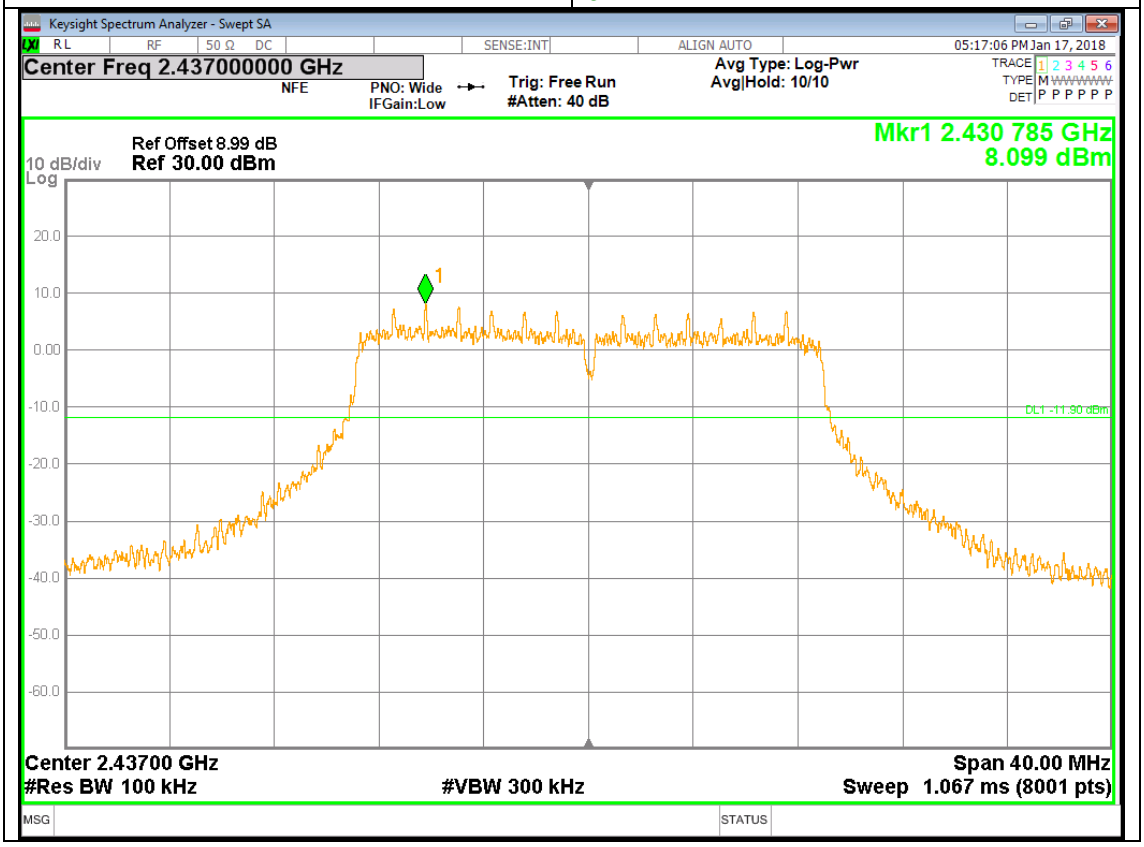
Middle Channel

Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2430.785MHz@8.099 dBm**



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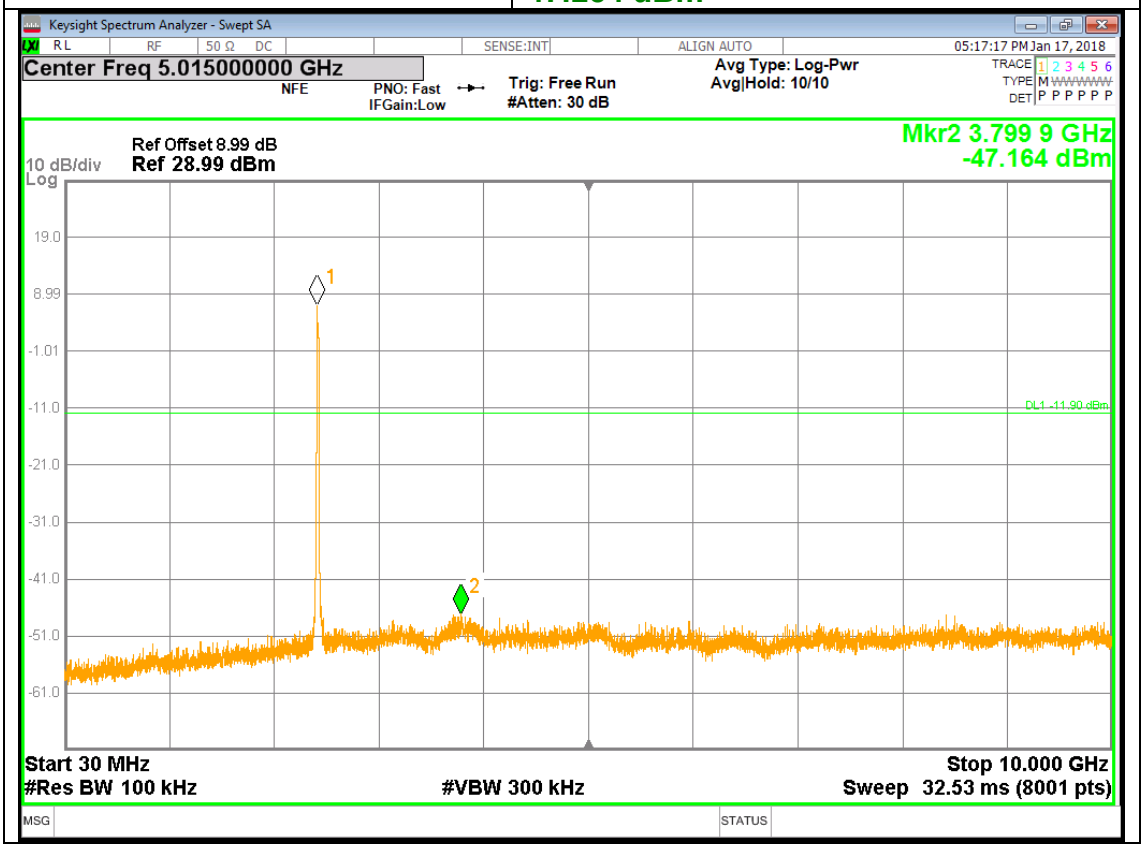
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3799.906MHz@-47.164 dBm**



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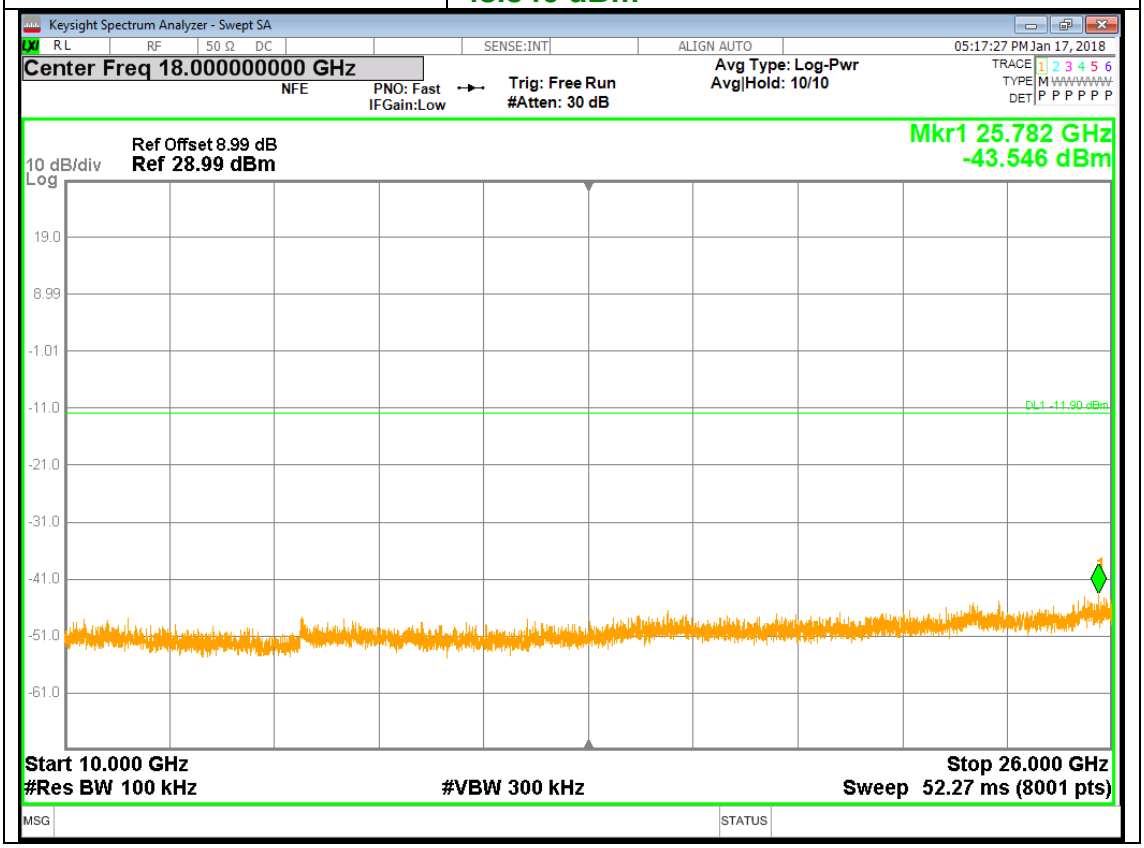
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25782.000MHz@-43.546 dBm**



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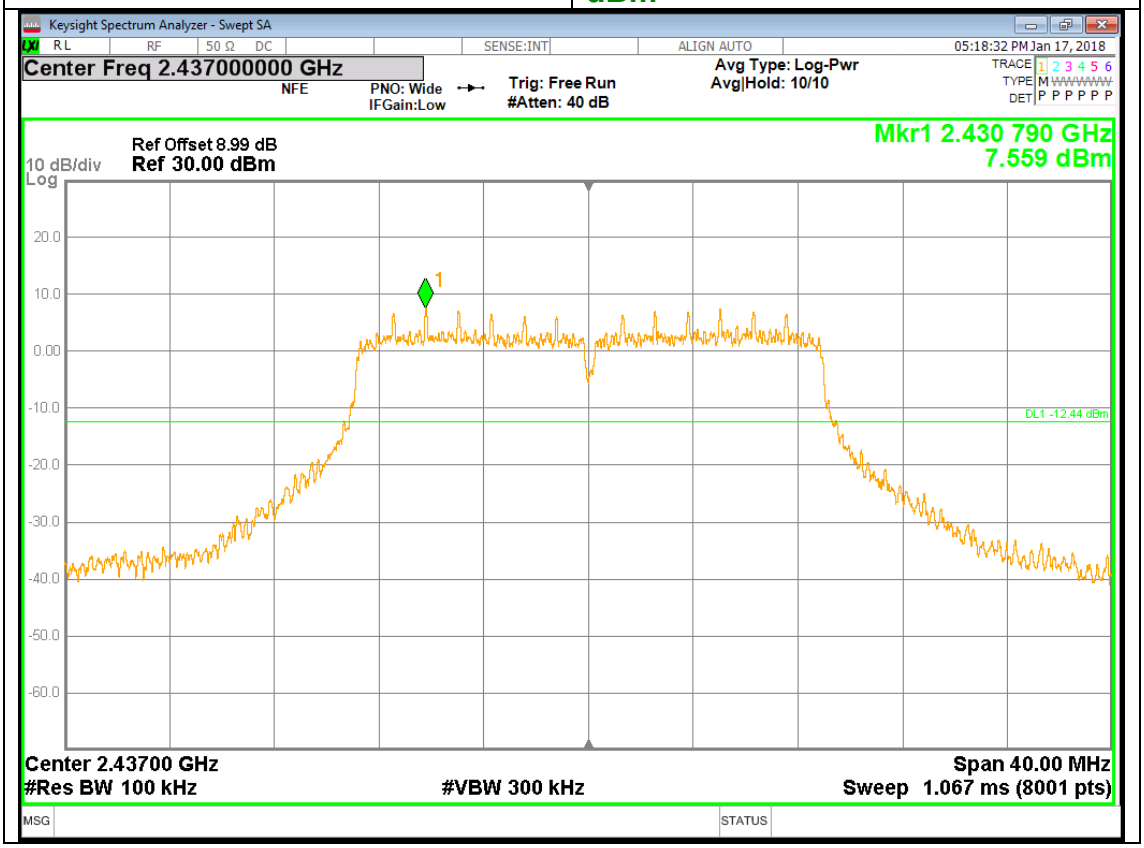
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2430.790MHz@7.559 dBm**



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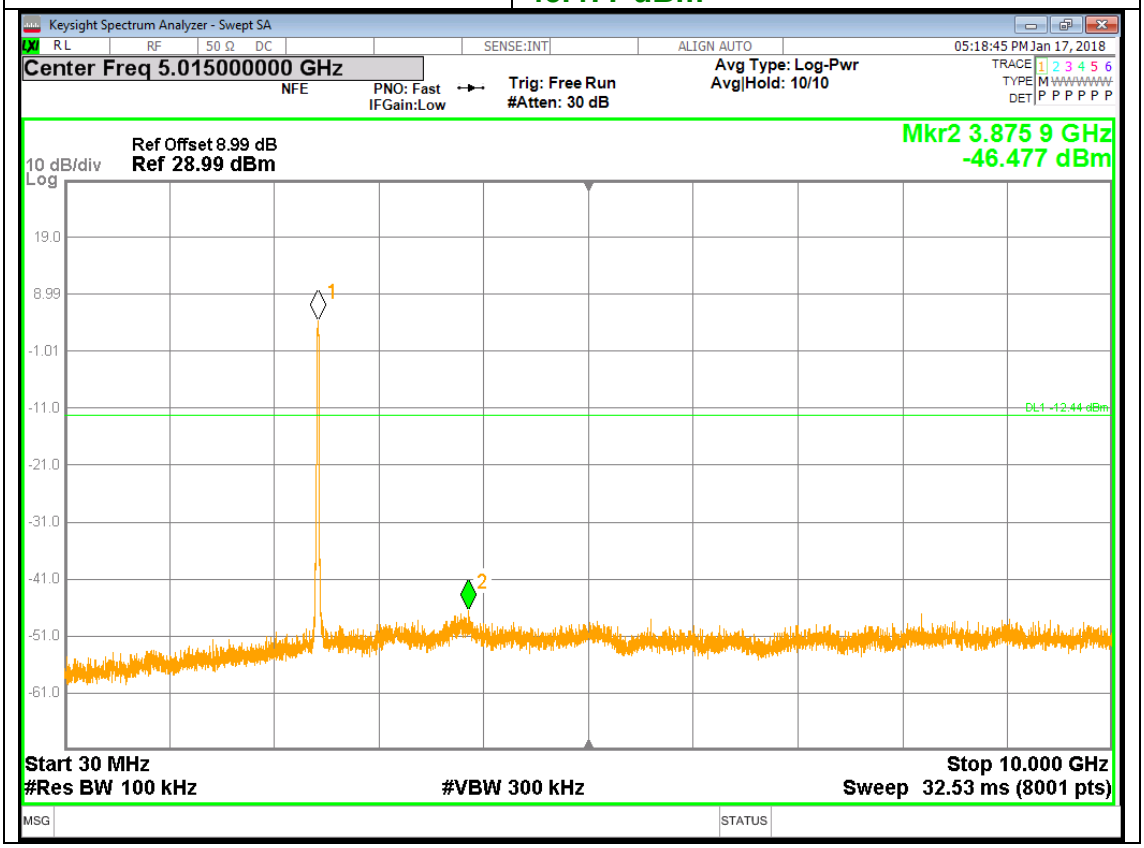
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3875.928MHz@-46.477 dBm**



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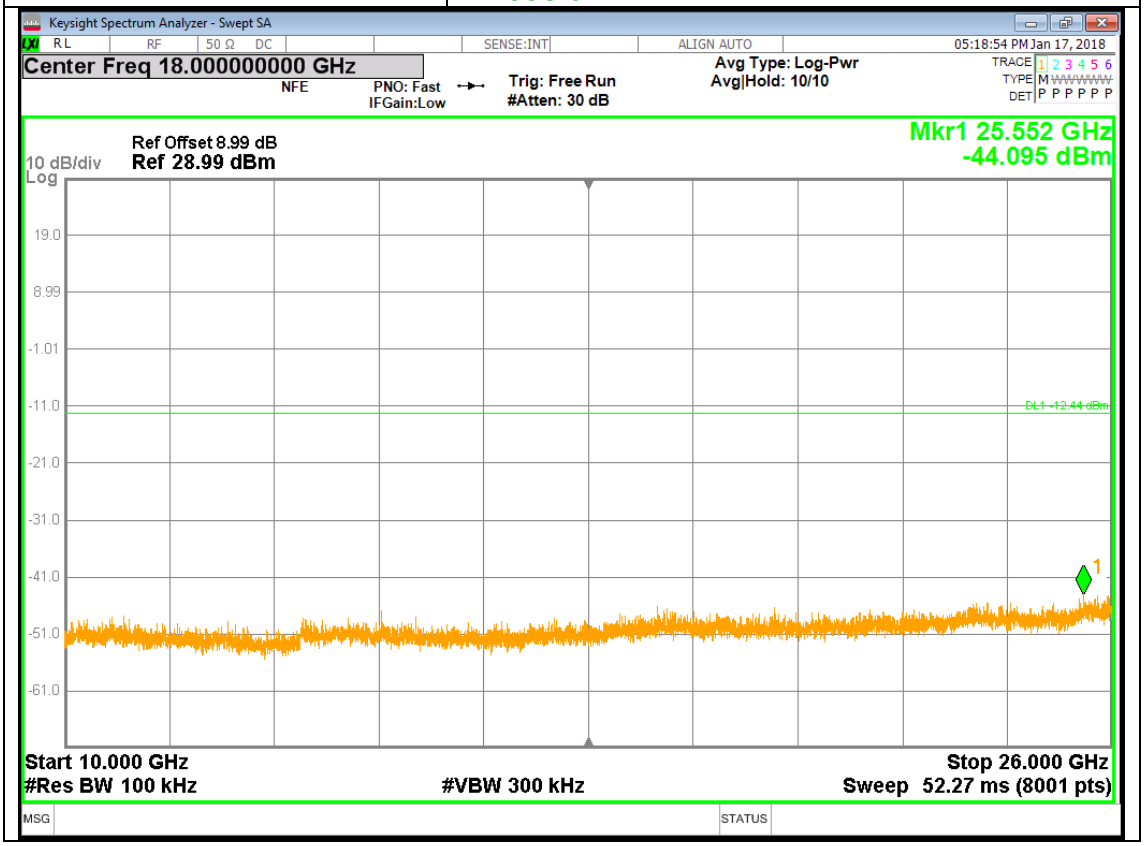
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25552.000MHz@-44.095 dBm**



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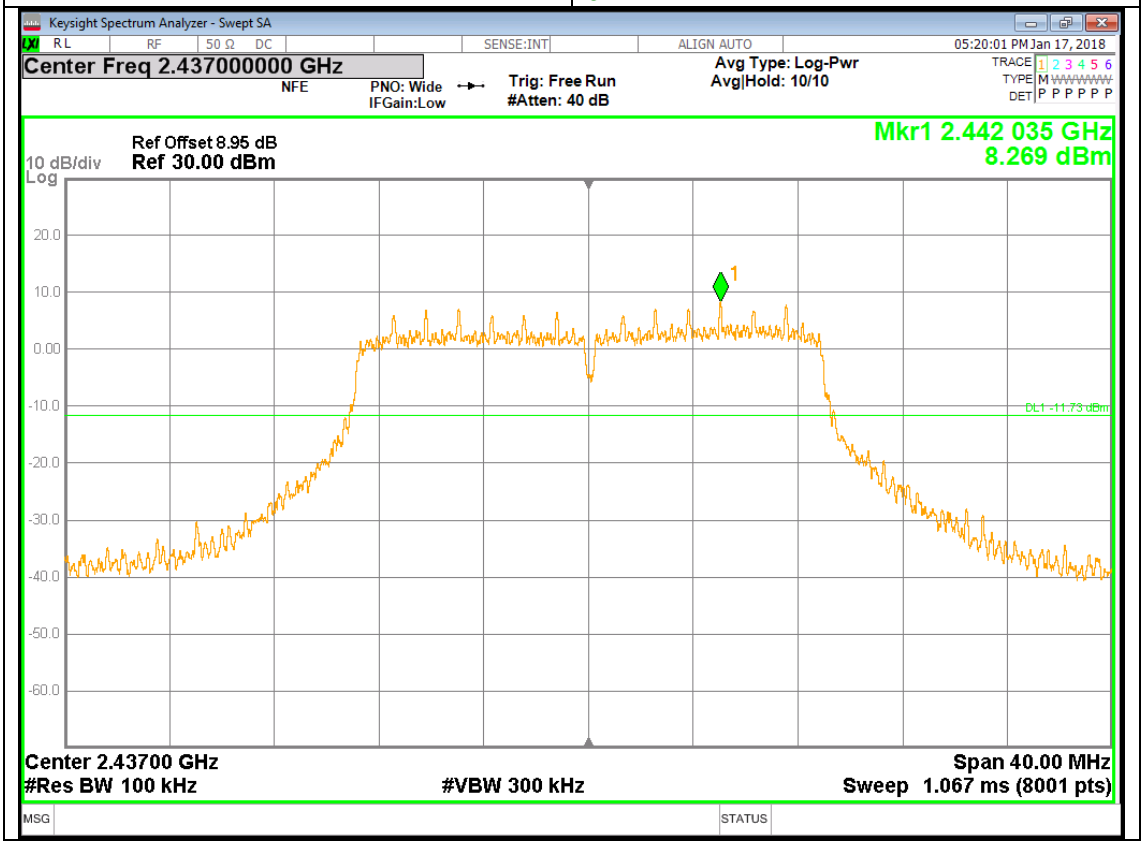
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2442.035MHz@8.269 dBm**



UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch FORM NO: 10-SL-F0035
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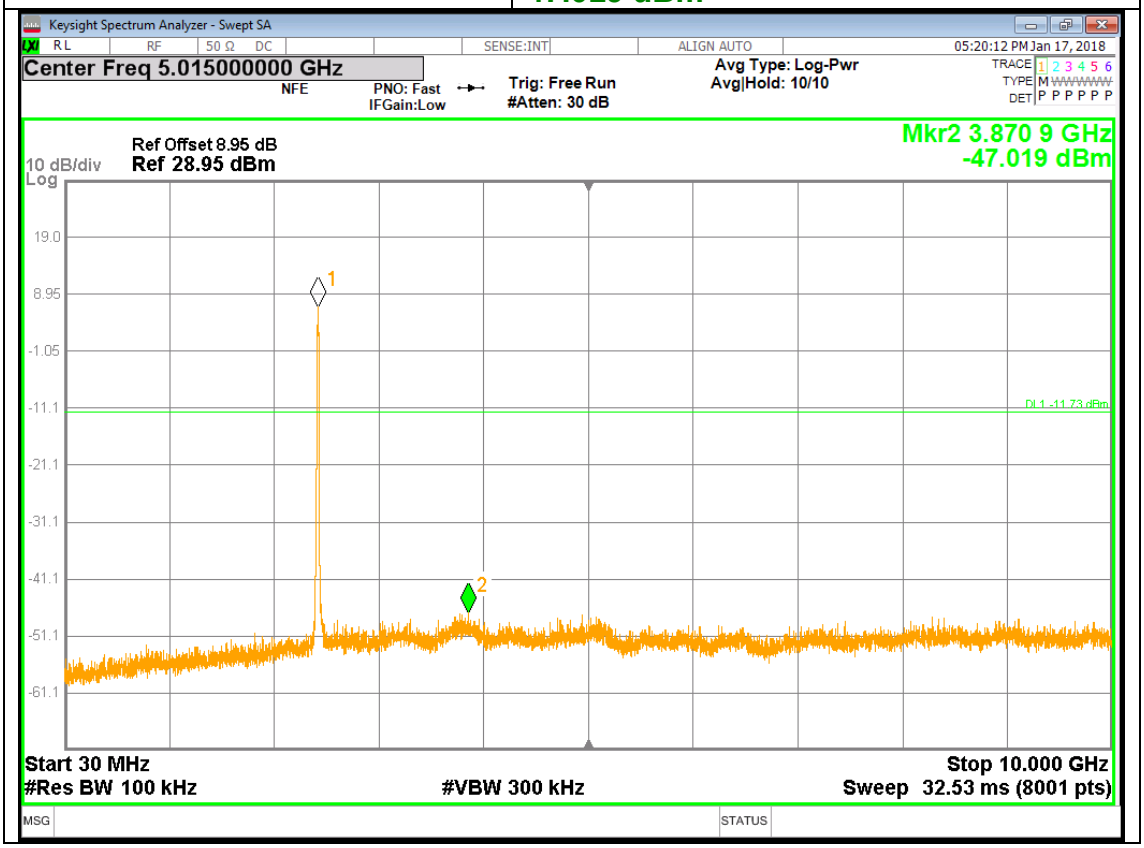
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3870.943MHz@-47.019 dBm**



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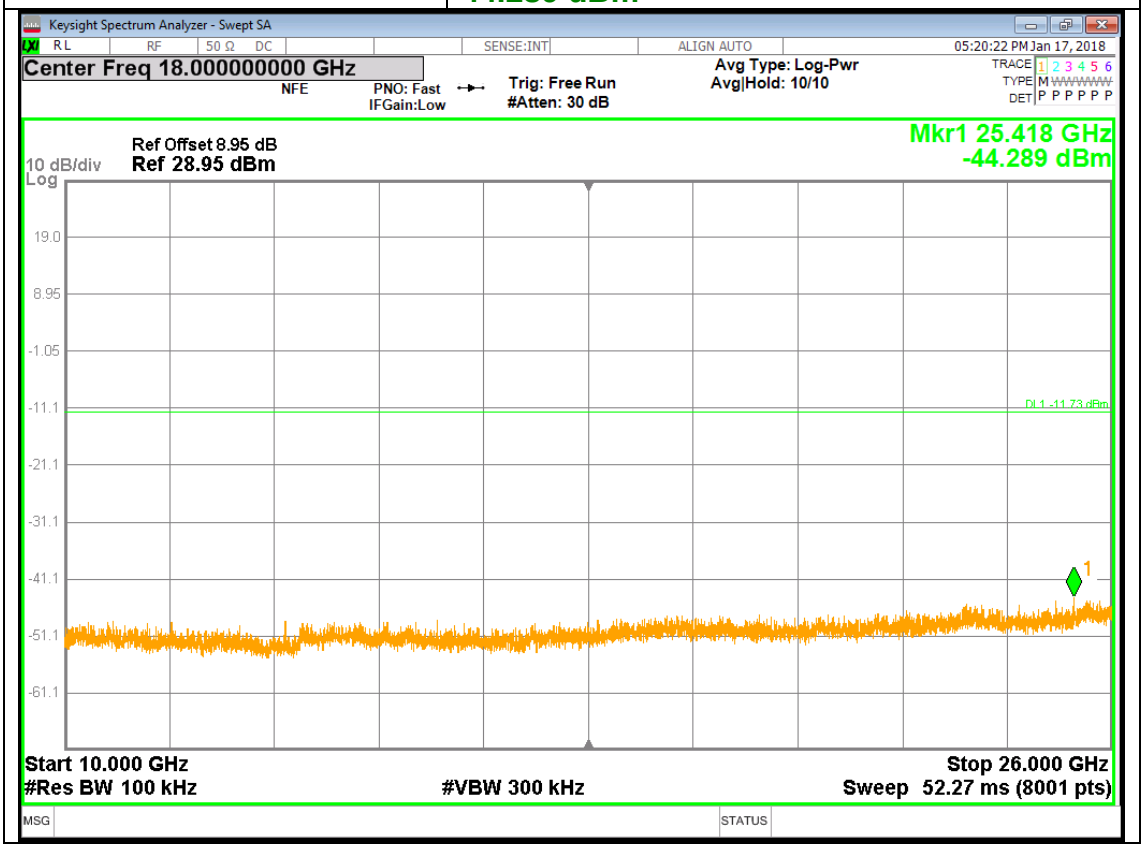
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25418.000MHz@-44.289 dBm**



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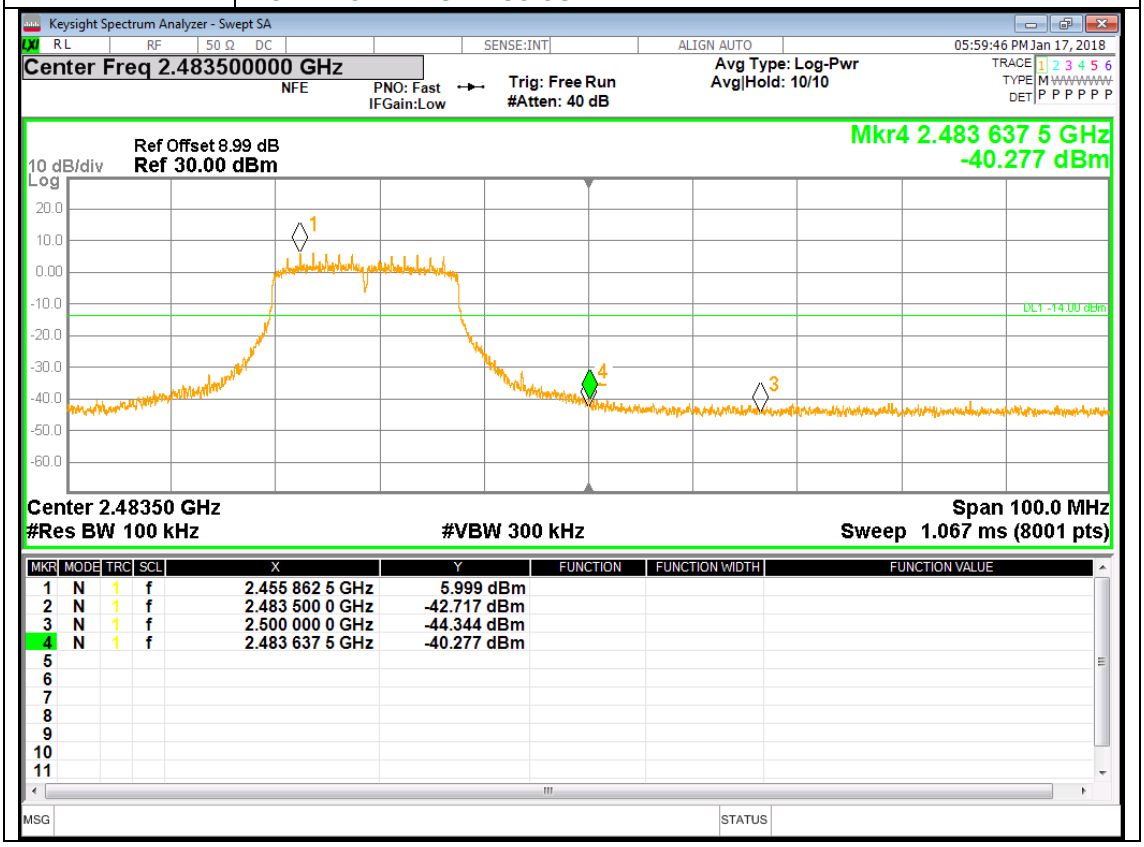
High Channel

Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:5.999dBm;Max:2483.638MHz@-40.277dBm46.276dbc**



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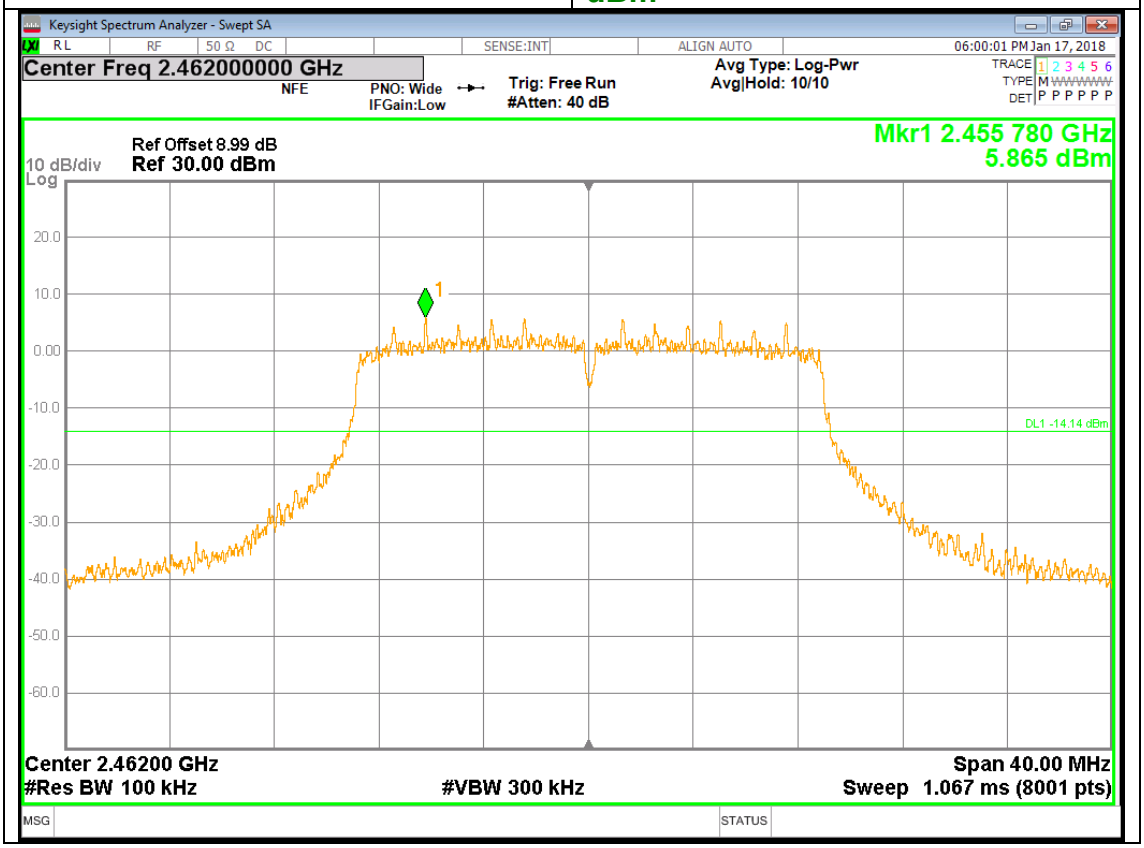
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2455.780MHz@5.865 dBm**



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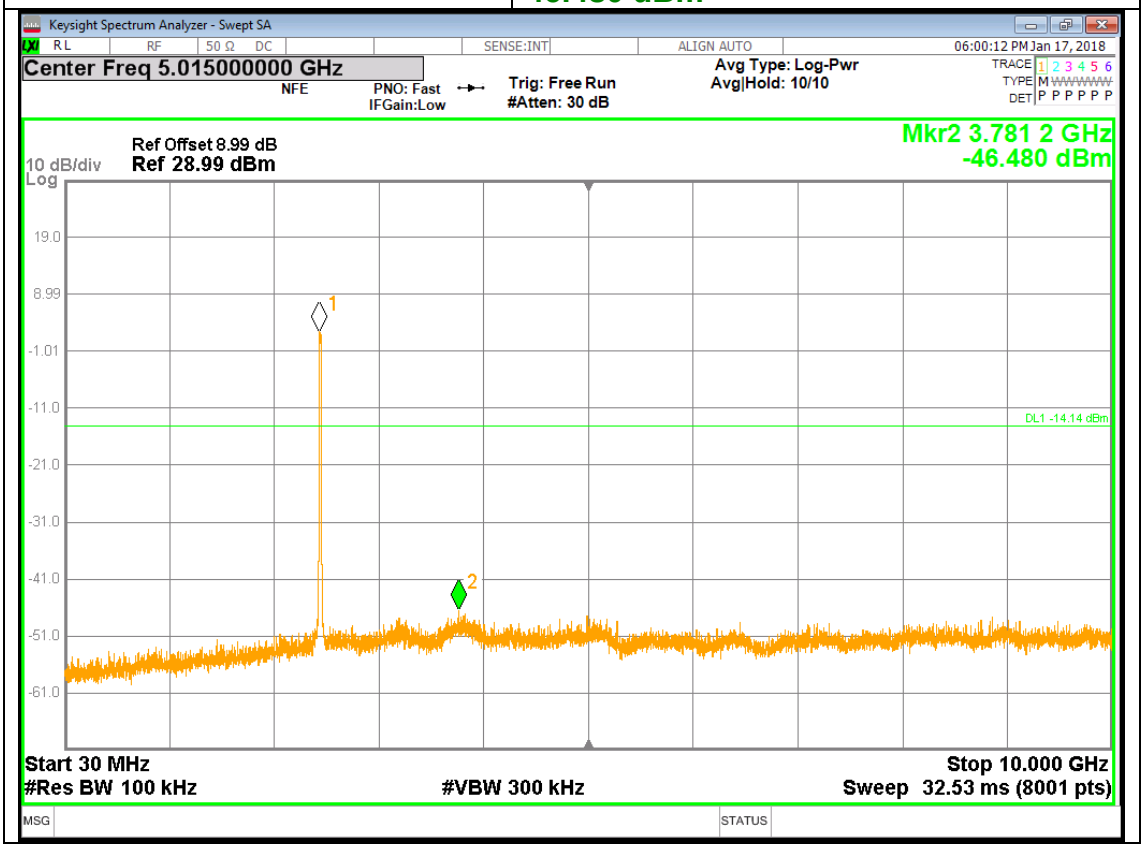
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3781.213MHz@-46.480 dBm**



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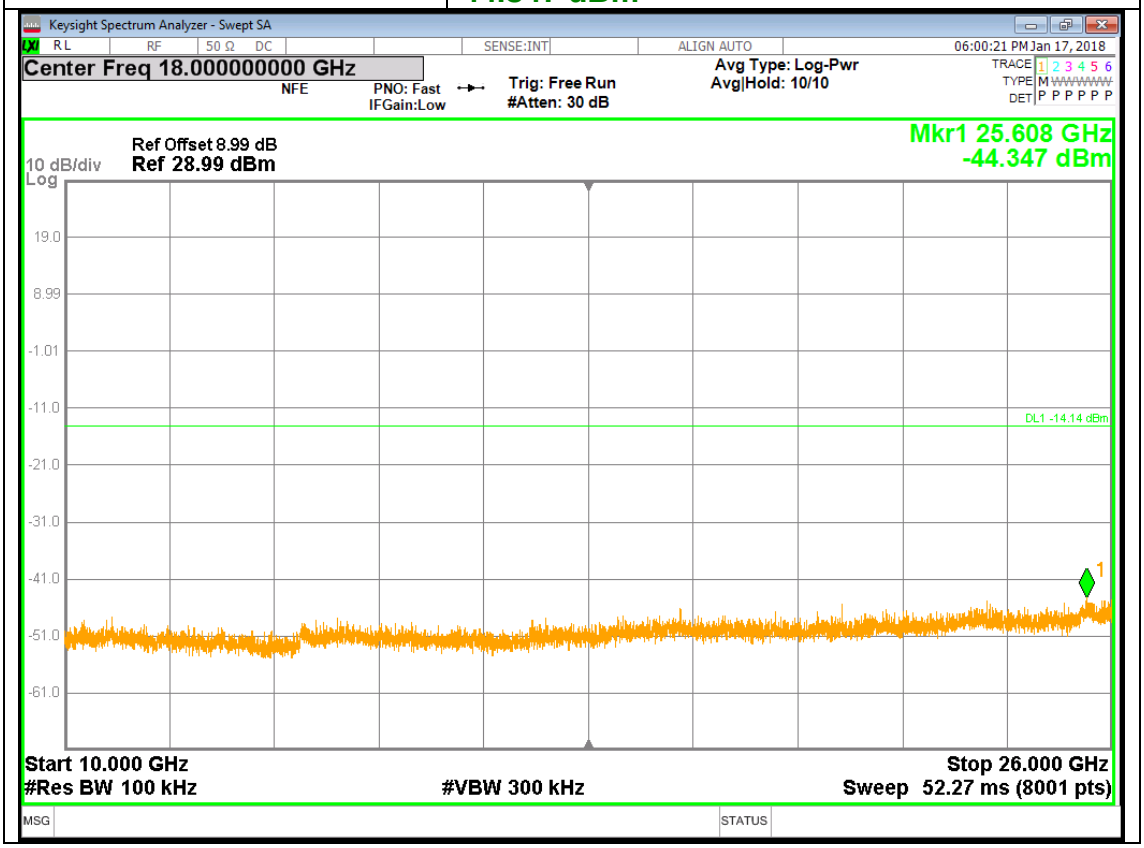
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25608.000MHz@-44.347 dBm**



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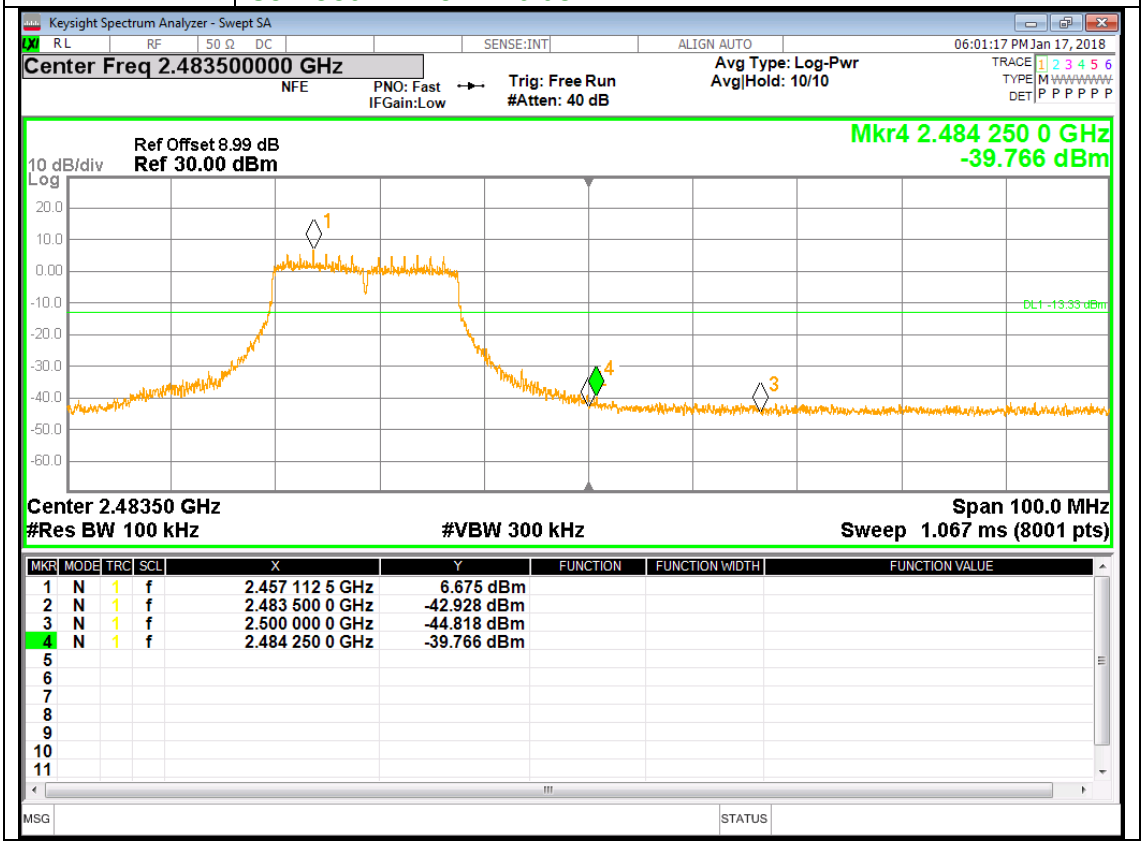
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:6.675dBm;Max:2484.250MHz@-39.766dBm46.441dbc**



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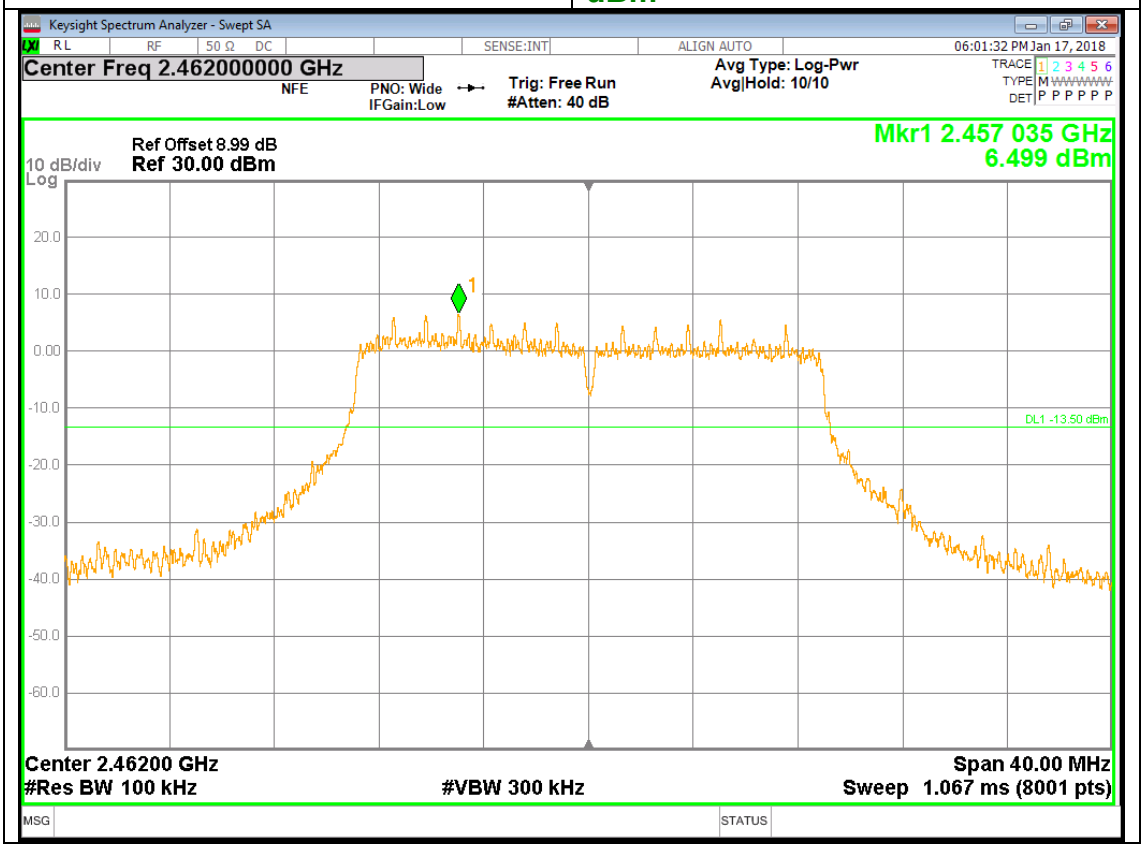
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2457.035MHz@6.499 dBm**



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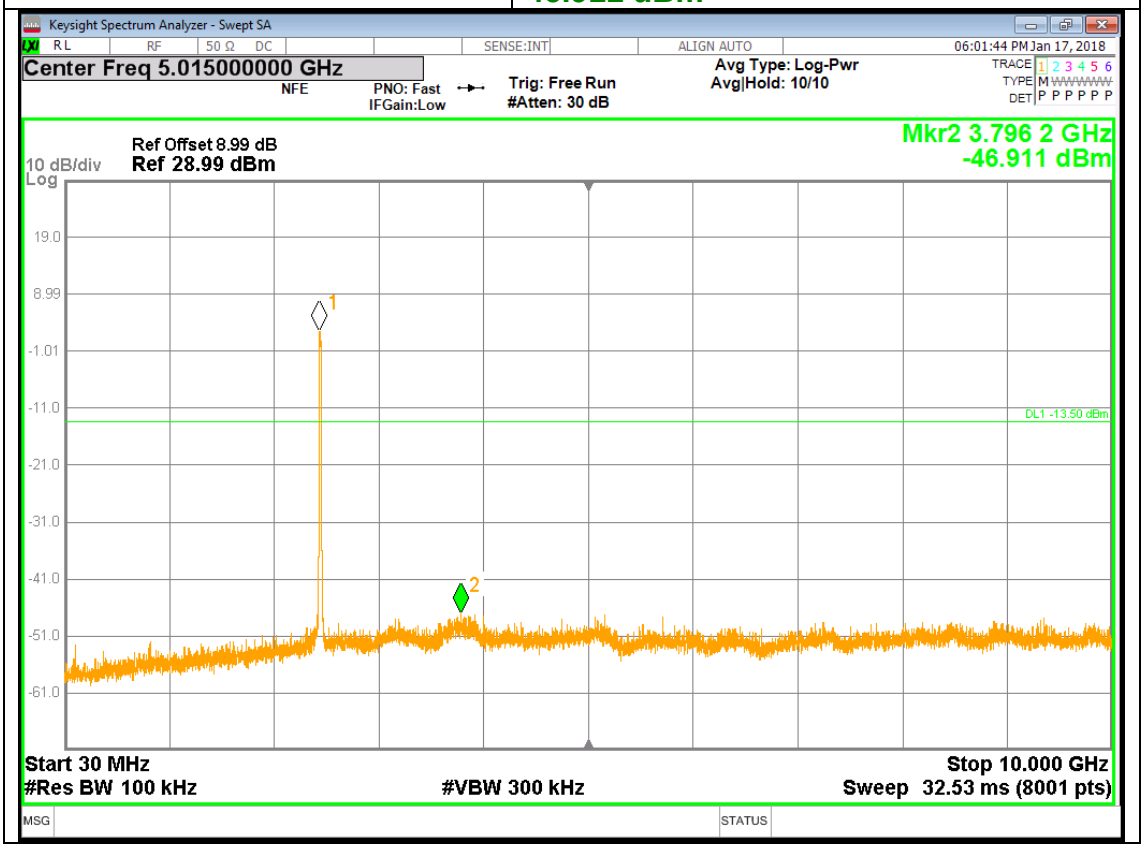
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3796.168MHz@-46.911 dBm**



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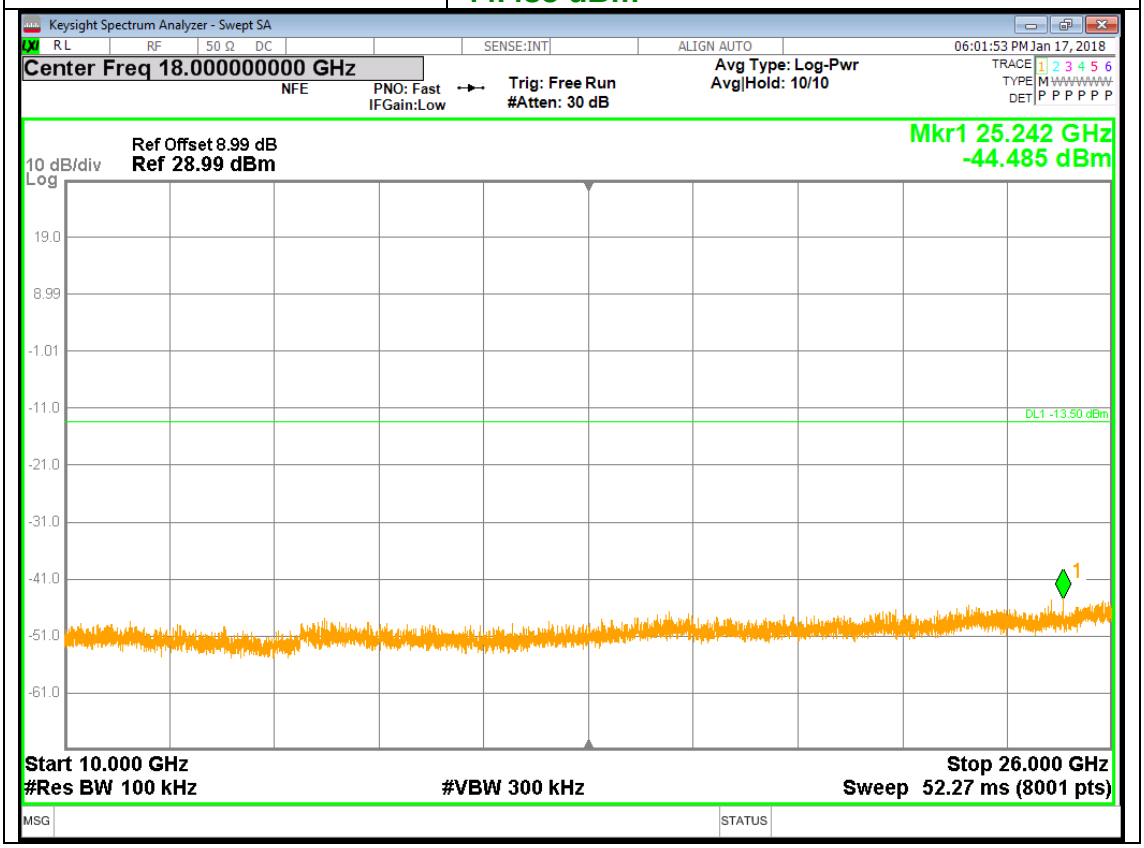
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25242.000MHz@-44.485 dBm**



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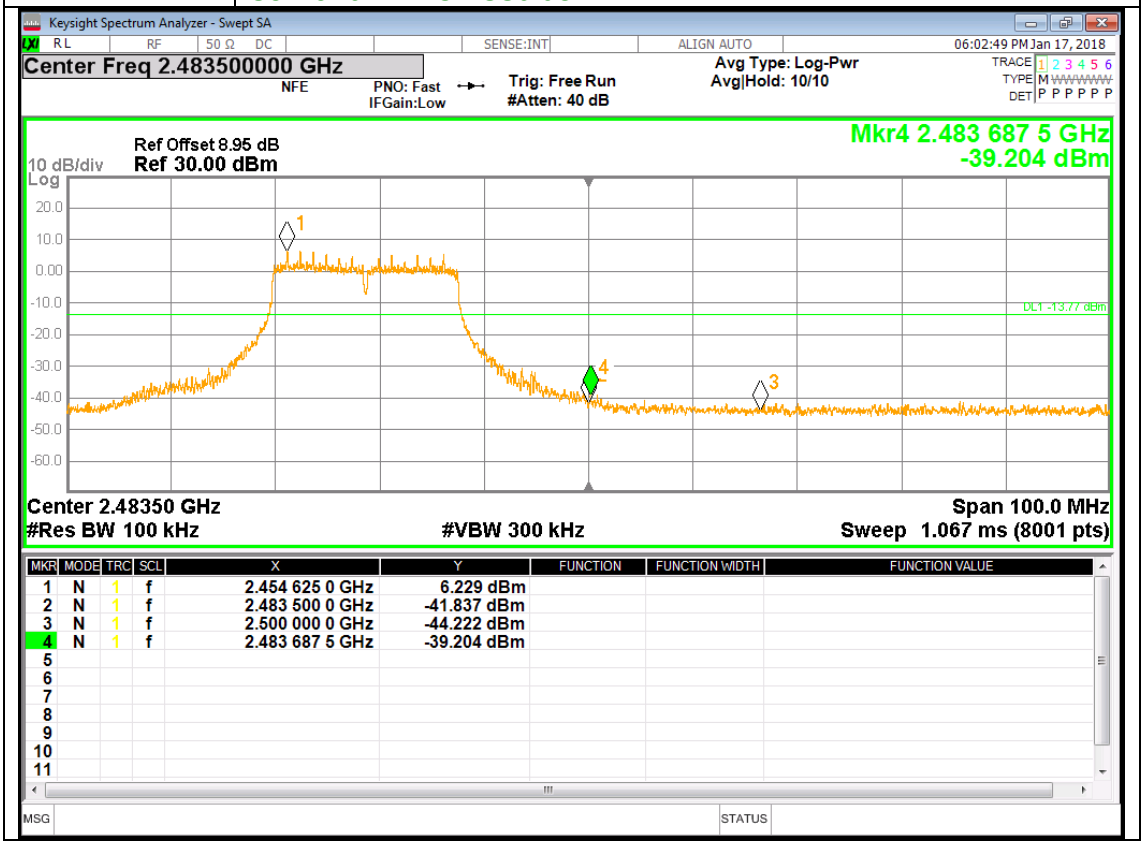
Test Case: Bandedge Compliance	
Mode: 11N20	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:6.229dBm;Max:2483.688MHz@-39.204dBm45.433dbc**



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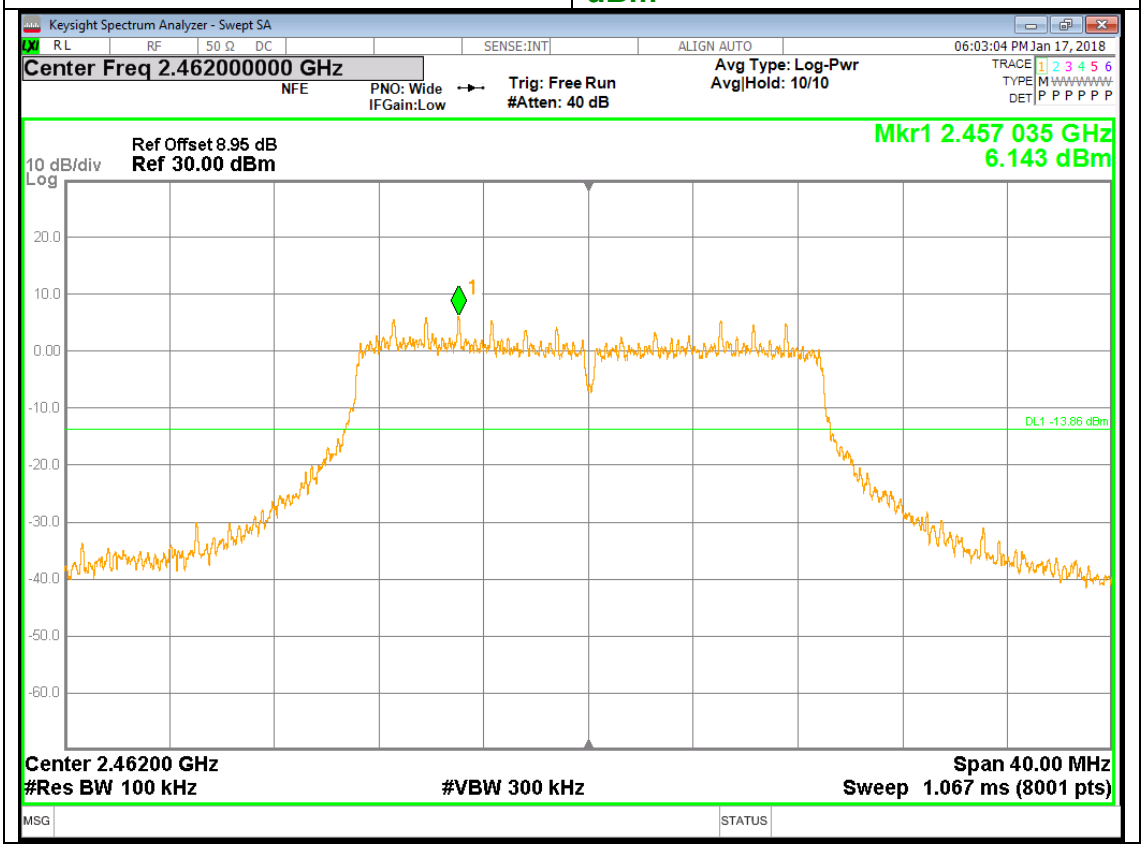
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2457.035MHz@6.143 dBm**



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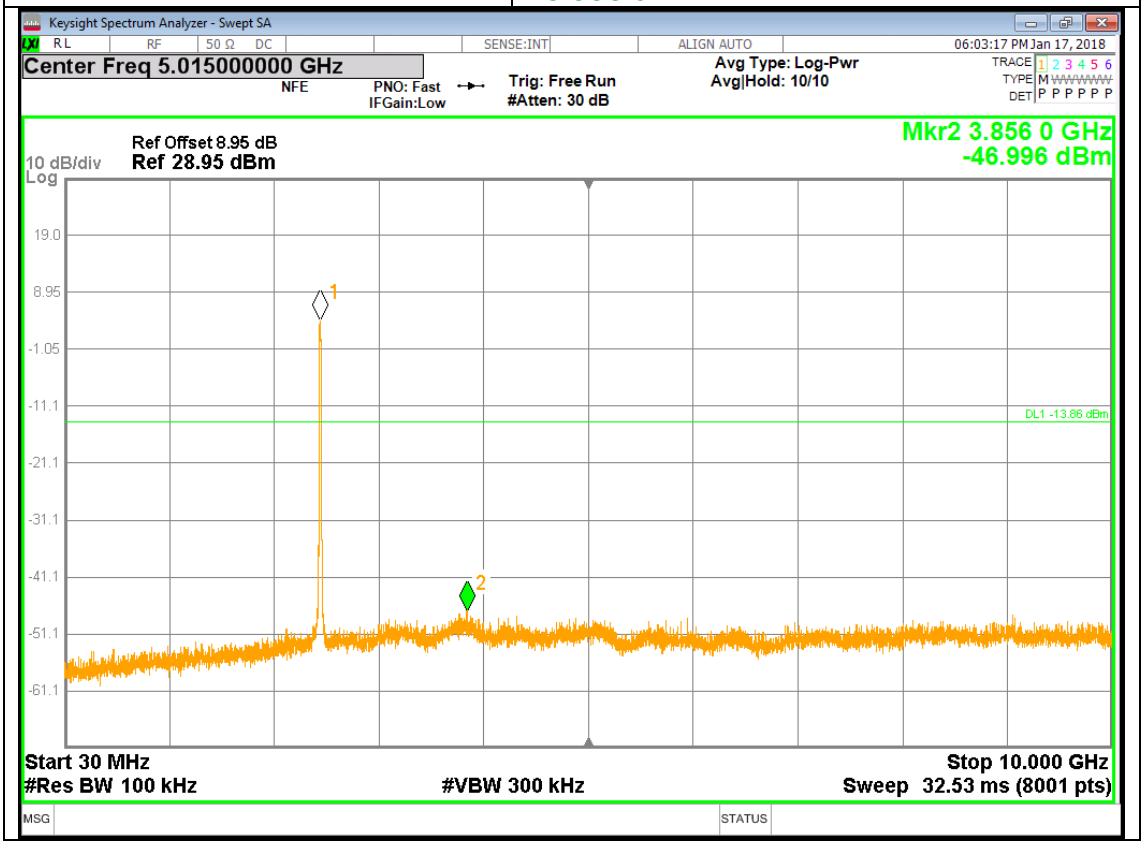
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N20	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3855.988MHz@-46.996 dBm**



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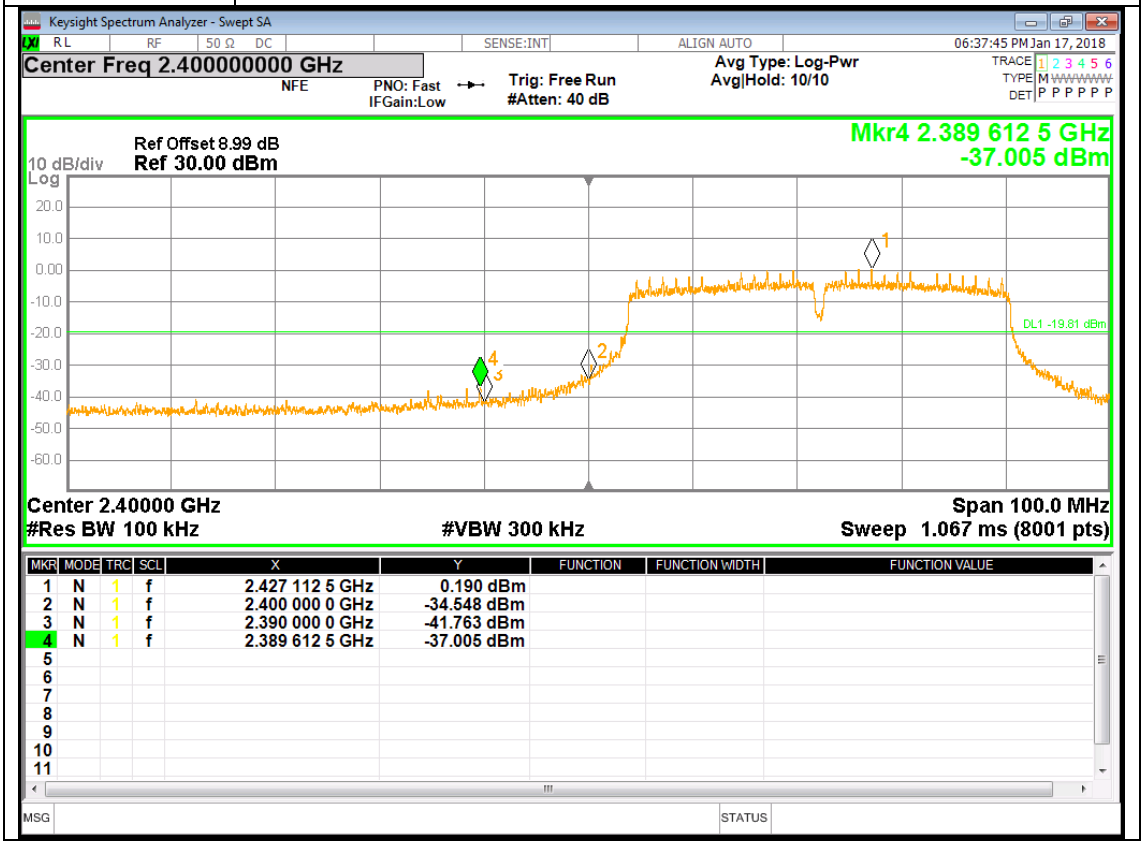
7.5.4. 802.11n40 3TX MODE

Low Channel

Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:0.190dBm;Max:2389.613MHz@-37.005dBm37.195dbc**



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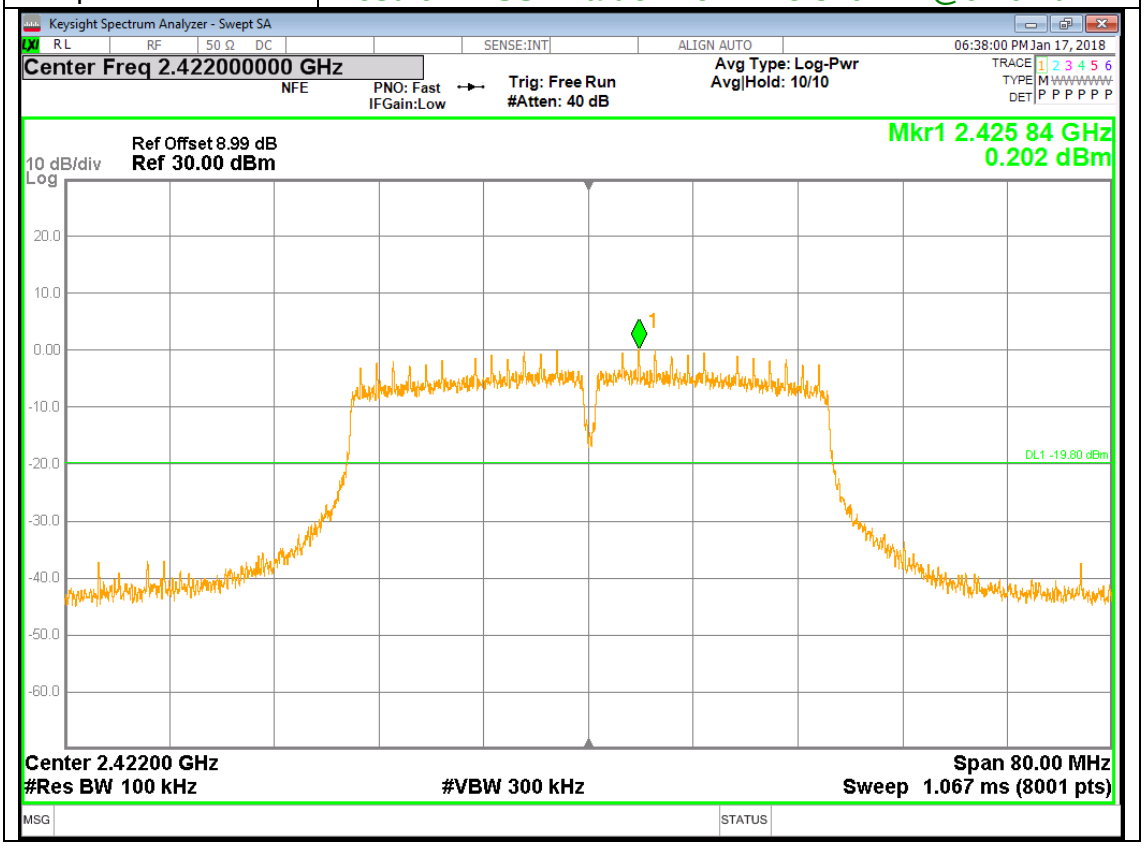
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Pref:2425.840MHz@0.202 dBm**



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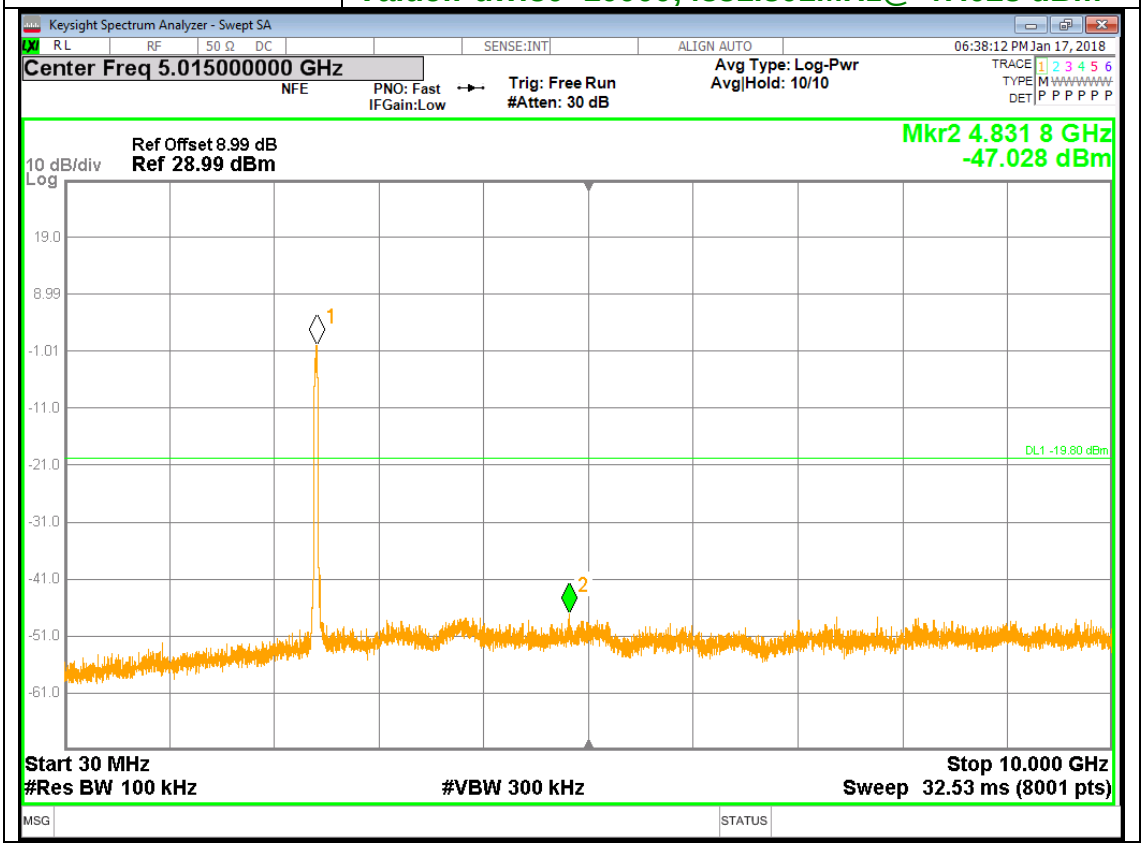
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;4831.801MHz@-47.028 dBm**



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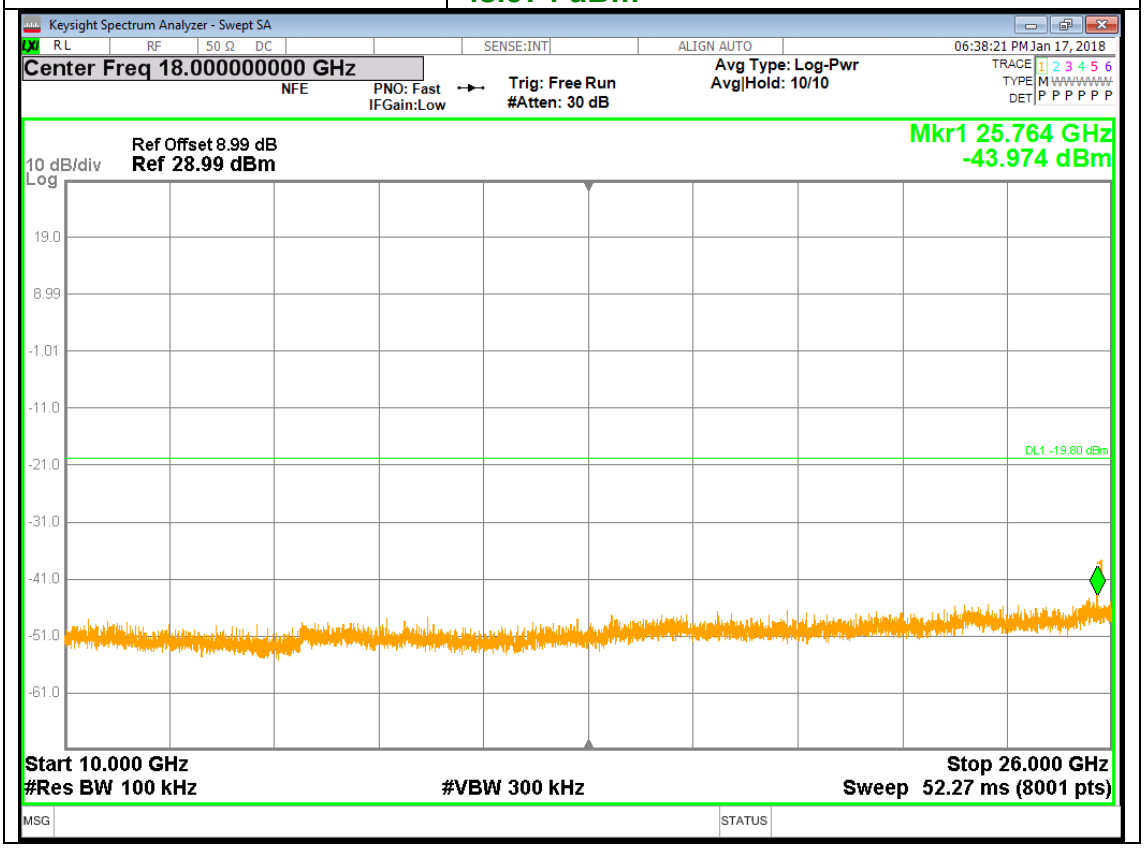
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25764.000MHz@-43.974 dBm**



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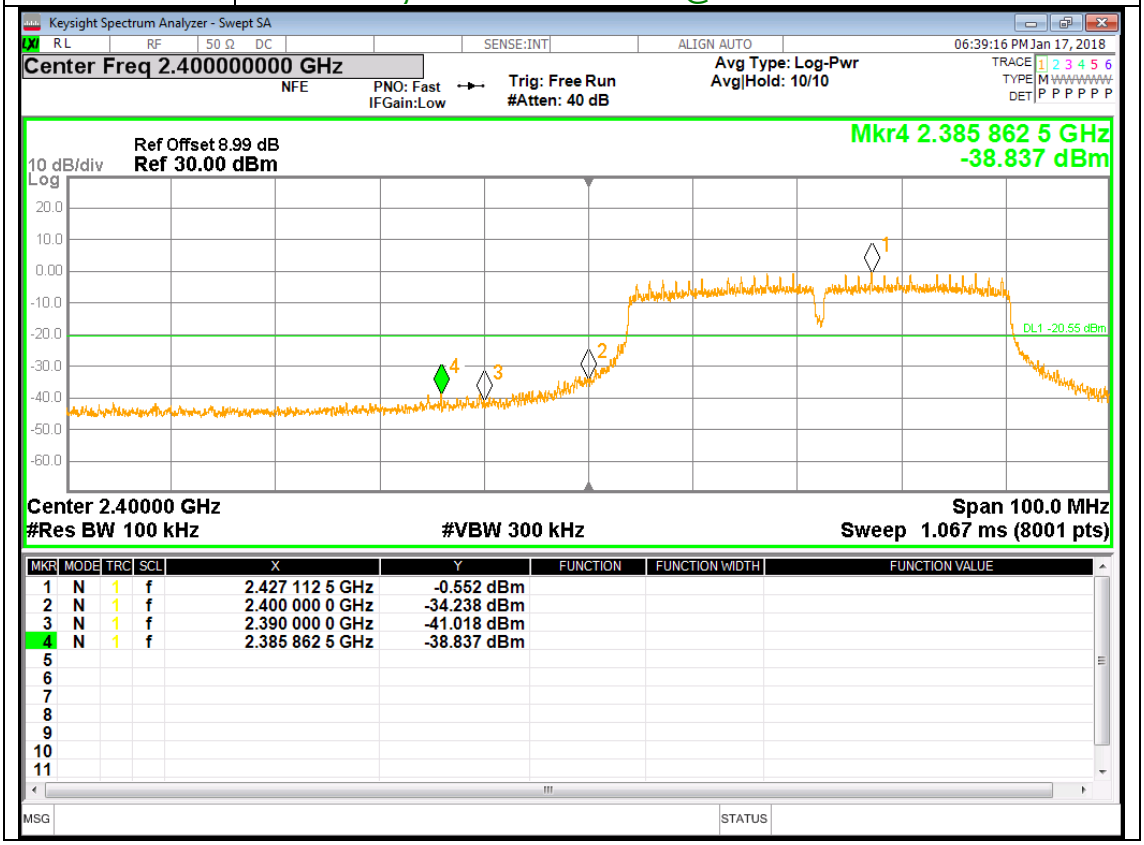
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-0.552dBm;Max:2385.863MHz@-38.837dBm38.285dbc**



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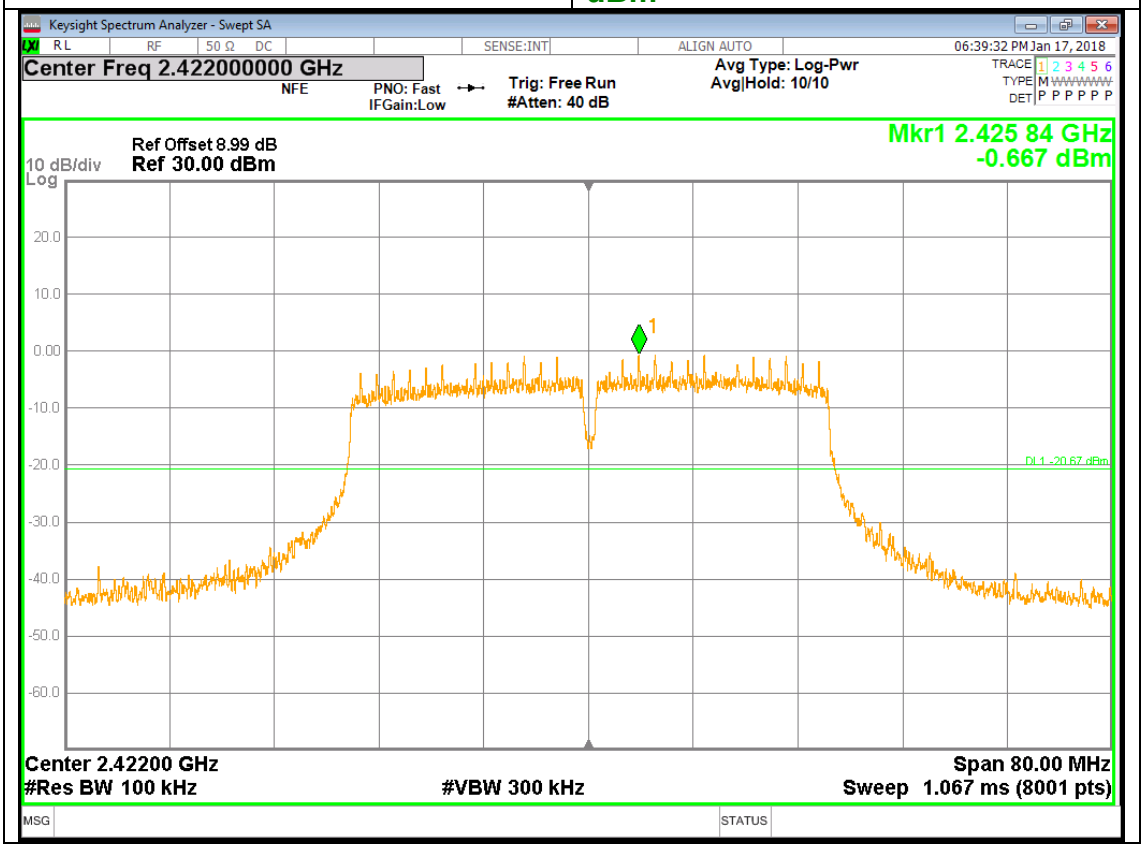
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2425.840MHz@-0.667 dBm**



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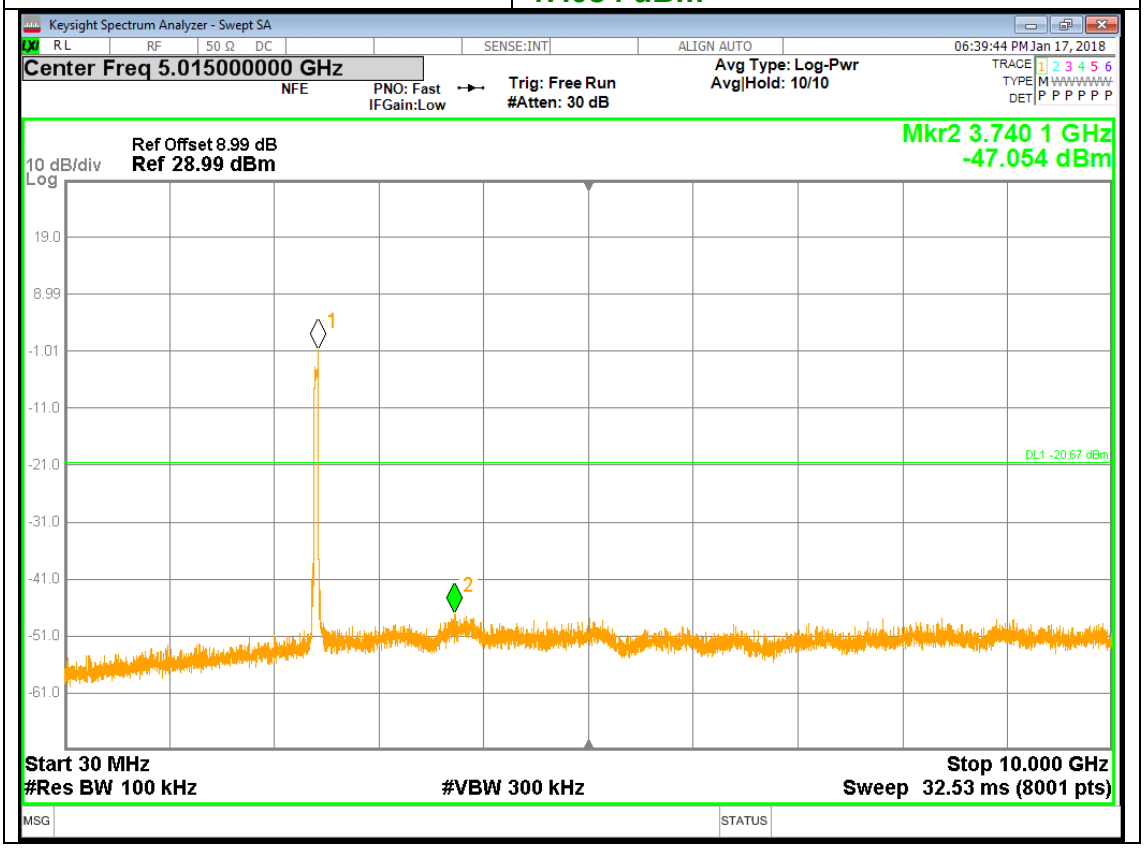
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3740.086MHz@-47.054 dBm**



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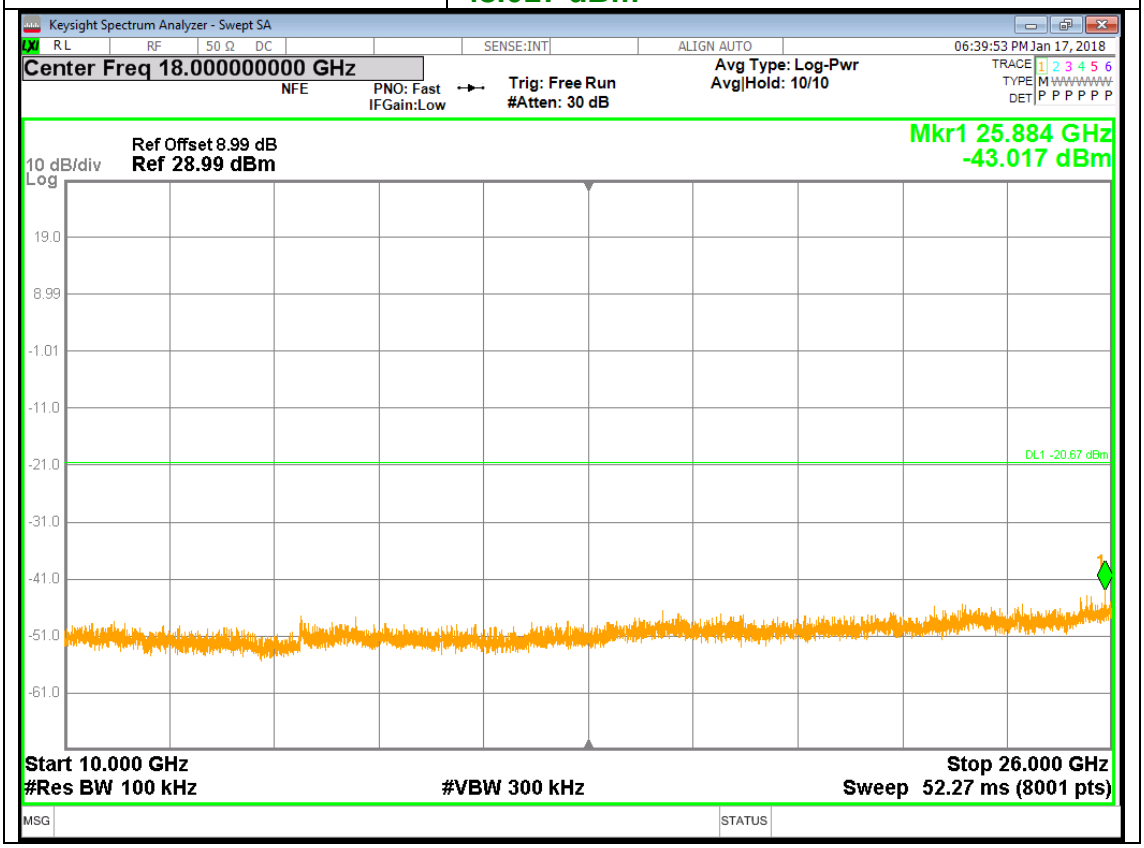
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25884.000MHz@-43.017 dBm**



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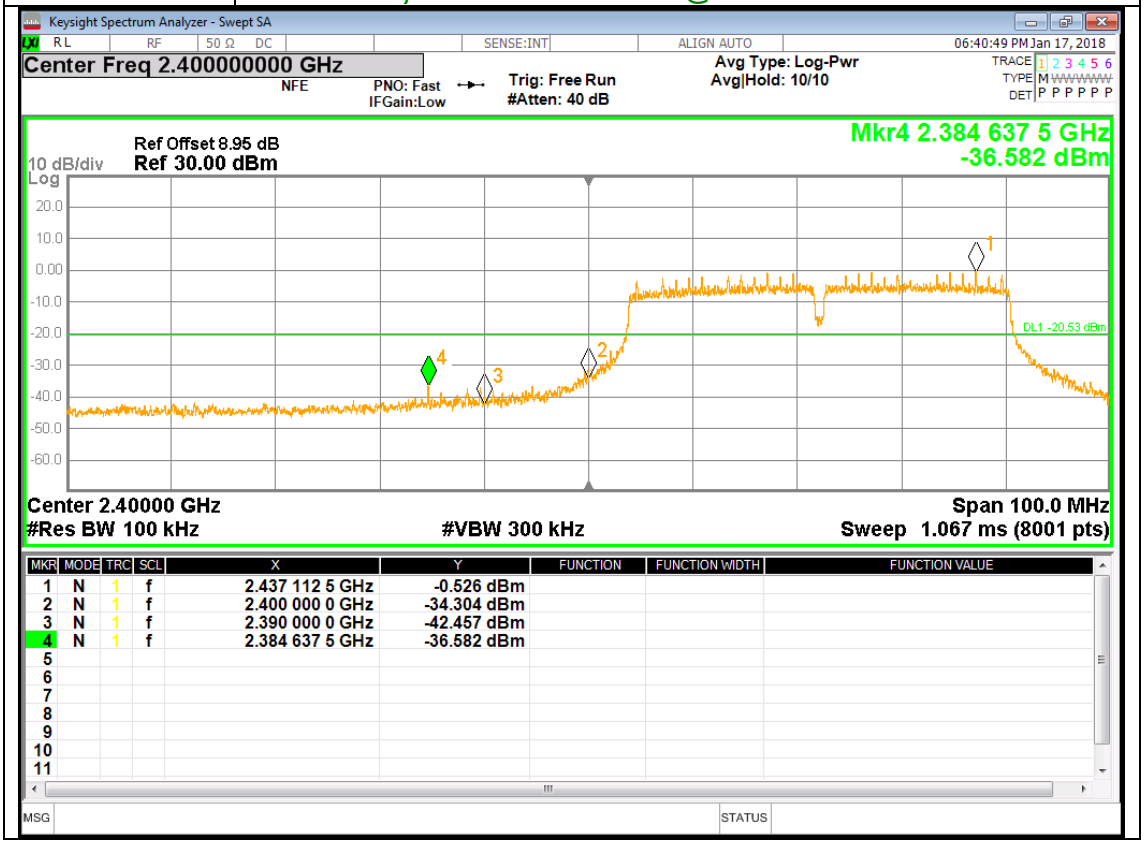
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS Value:Peak:-0.526dBm;Max:2384.638MHz@-36.582dBm36.056dbc**



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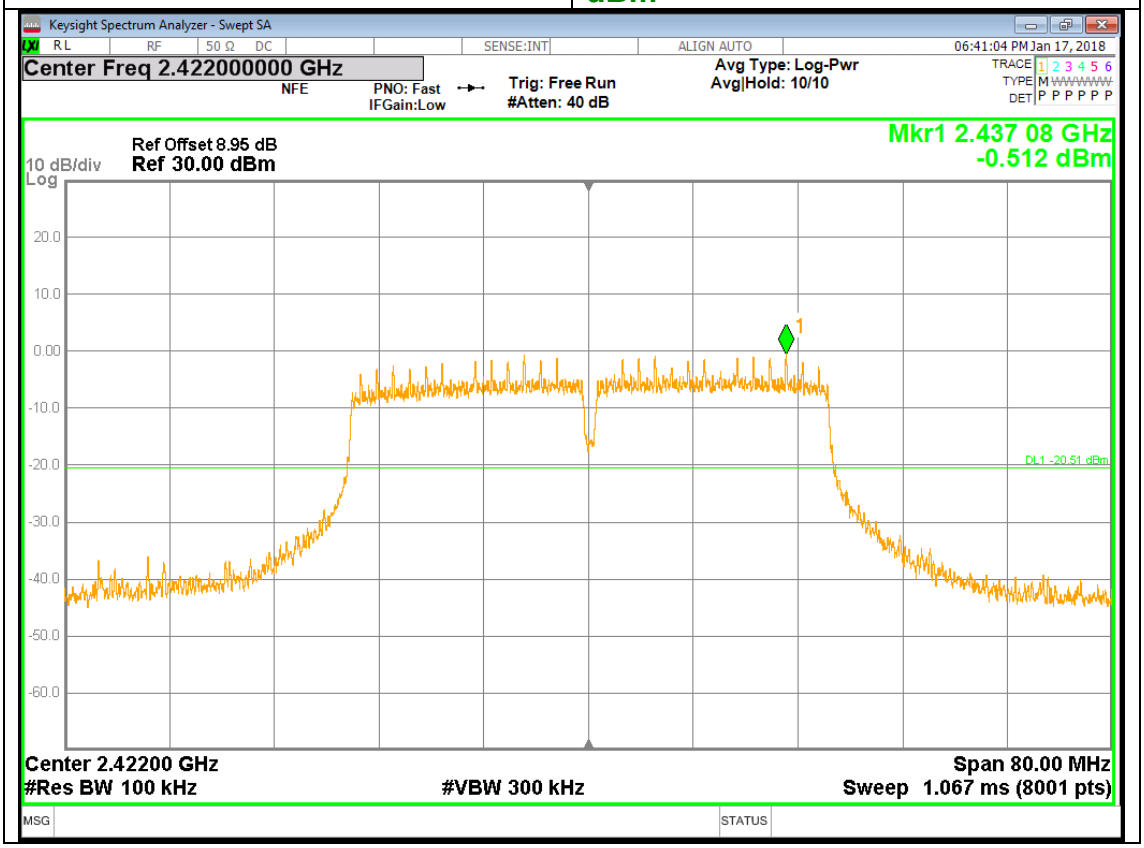
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2437.080MHz@-0.512 dBm**



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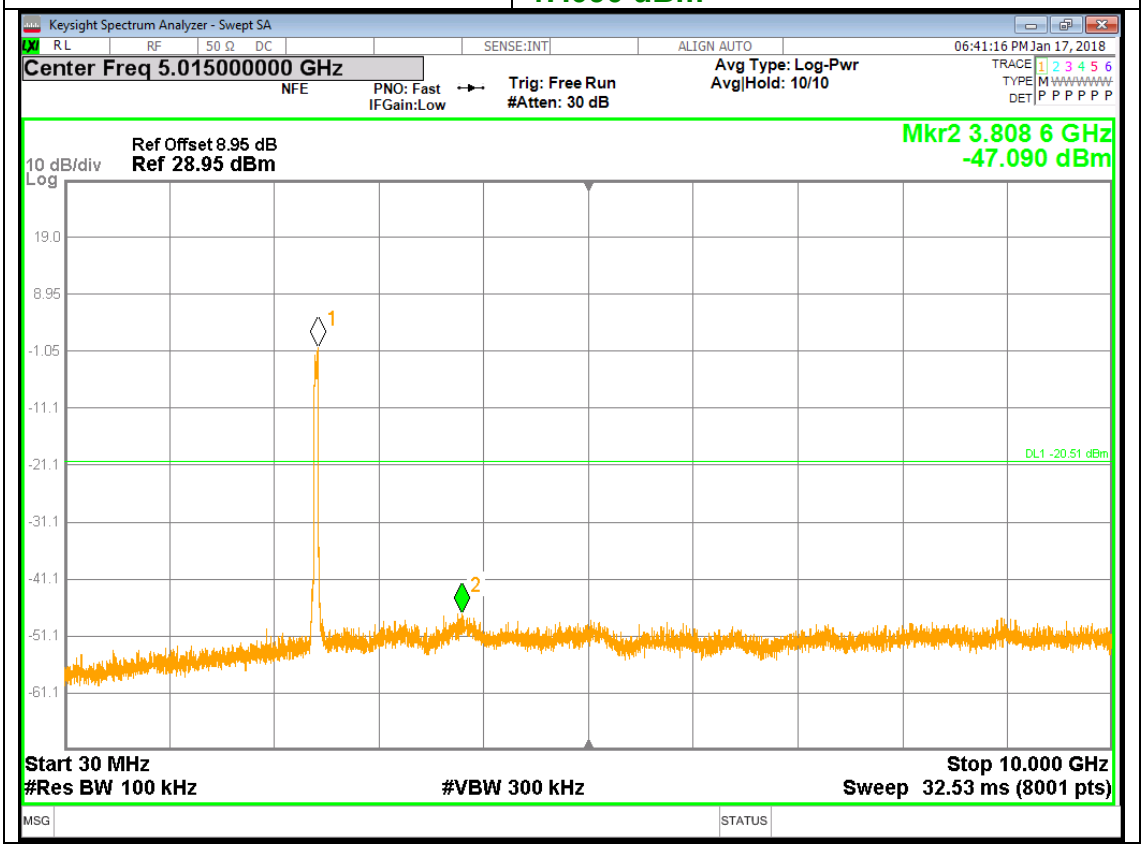
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3808.630MHz@-47.090 dBm**



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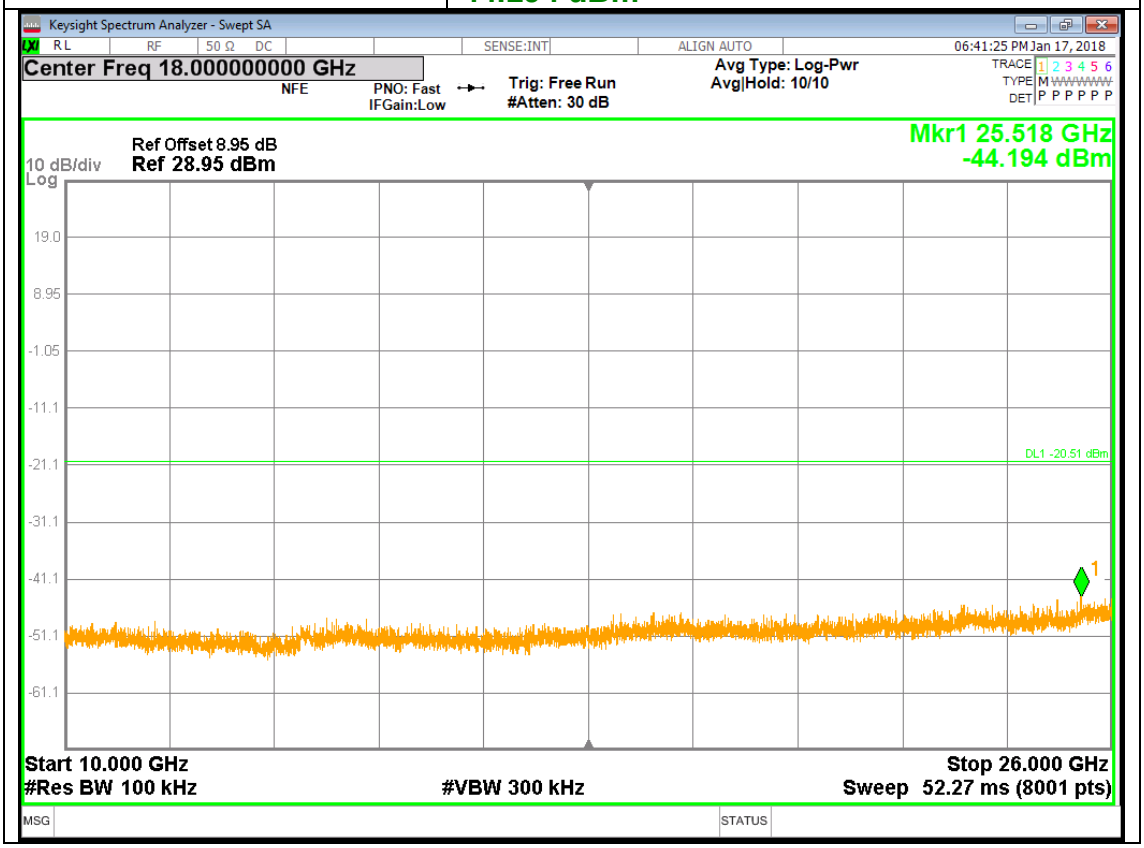
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: LCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25518.000MHz@-44.194 dBm**



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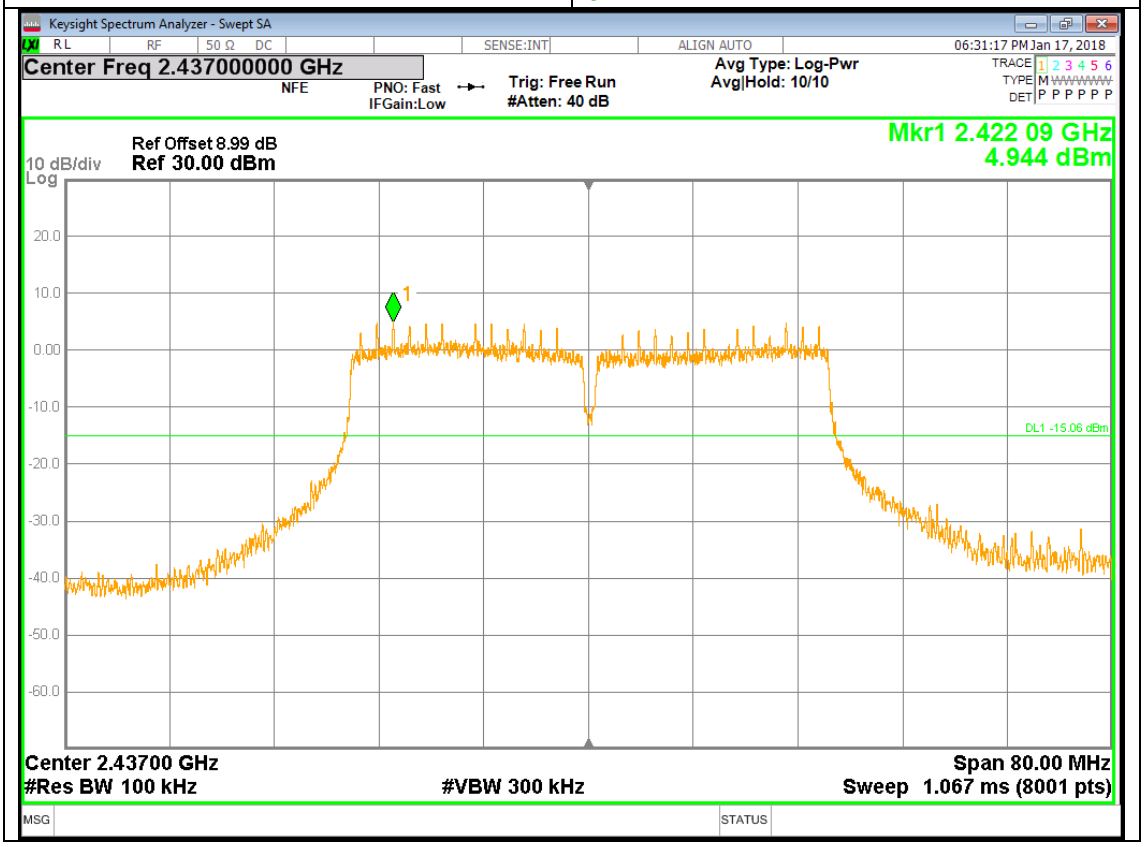
Middle Channel

Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2422.090MHz@4.944 dBm**



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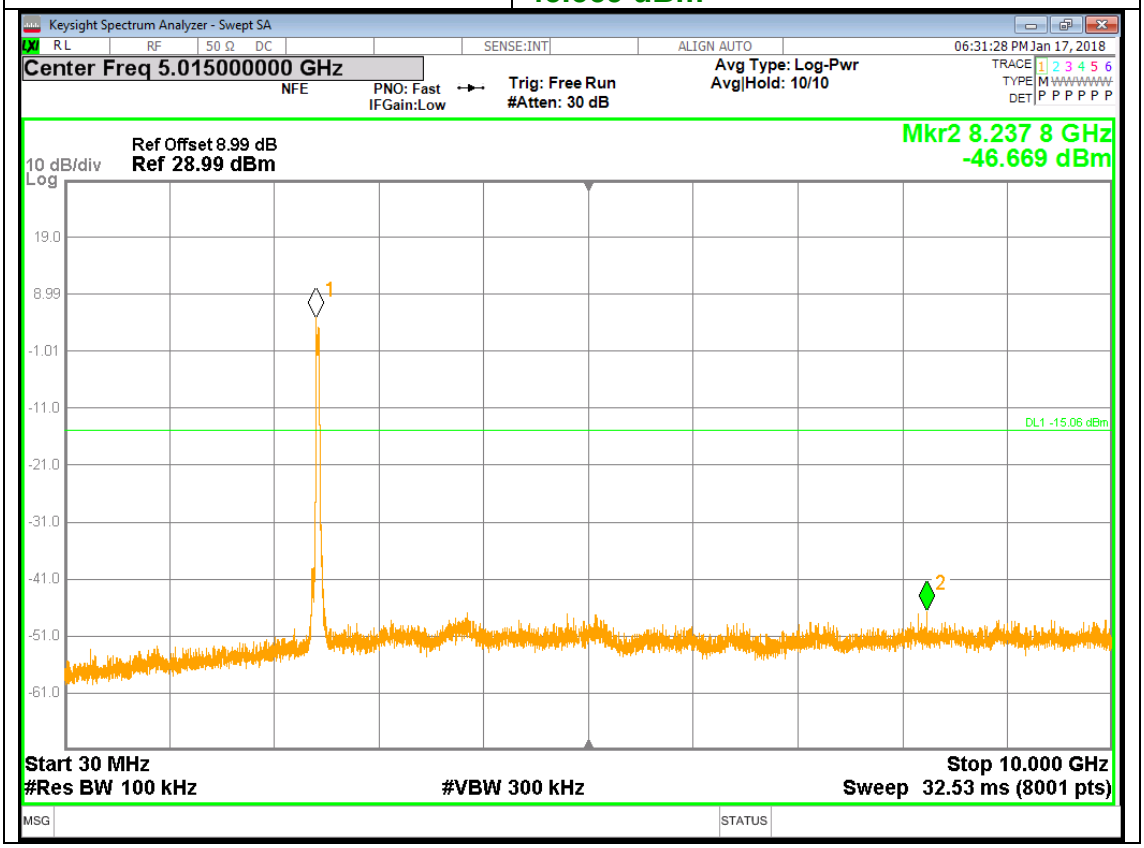
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;8237.803MHz@-46.669 dBm**



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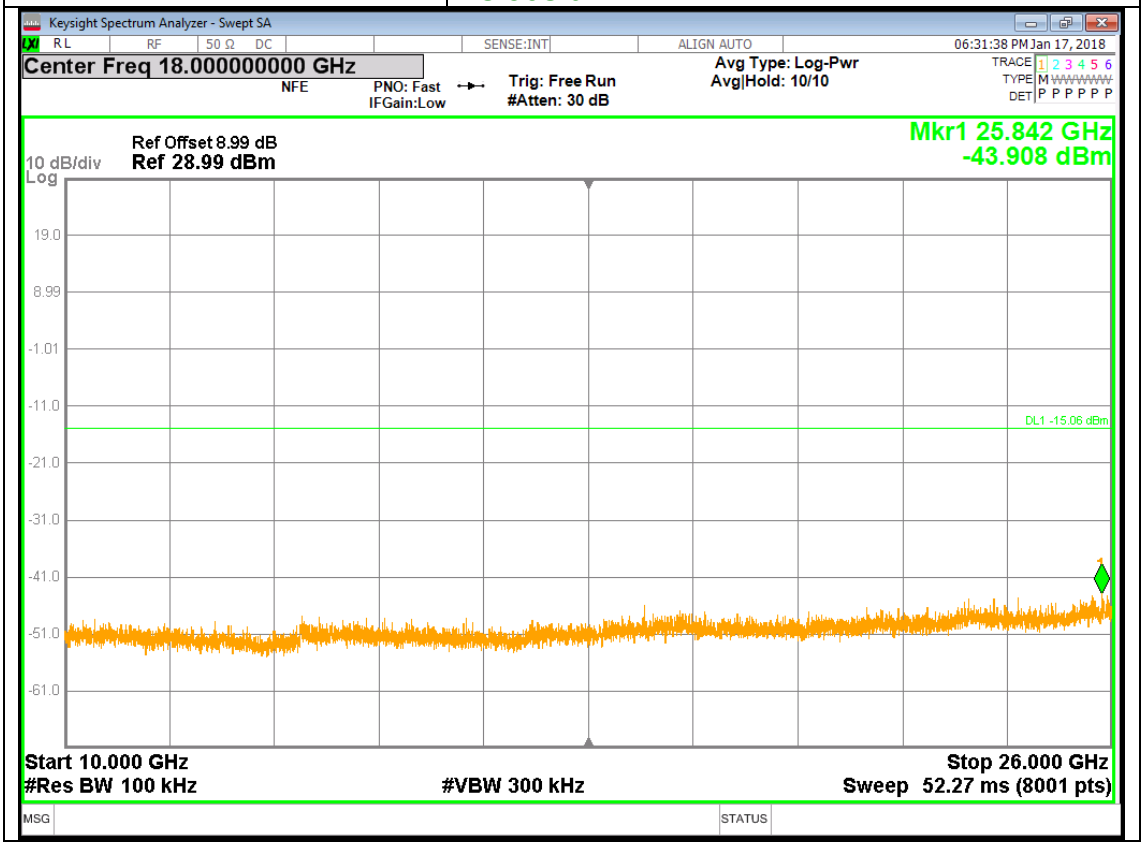
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25842.000MHz@-43.908 dBm**



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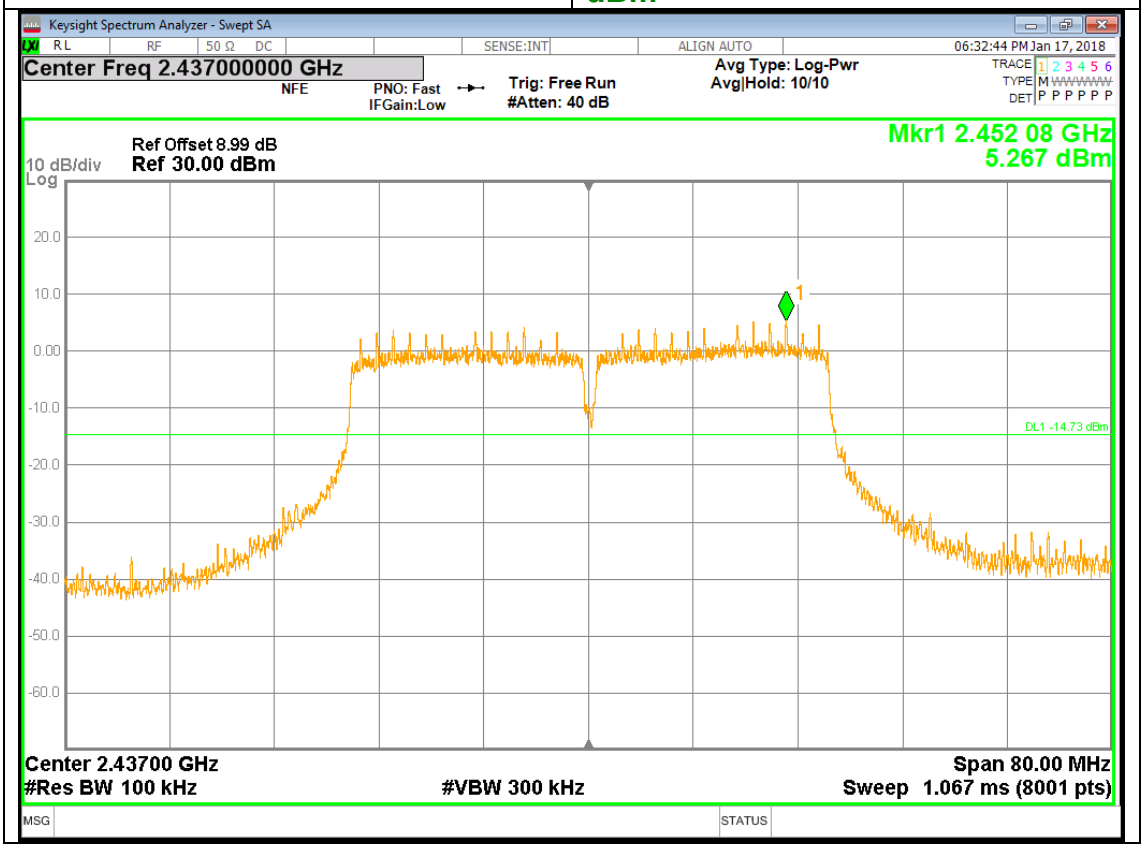
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2452.080MHz@5.267 dBm**



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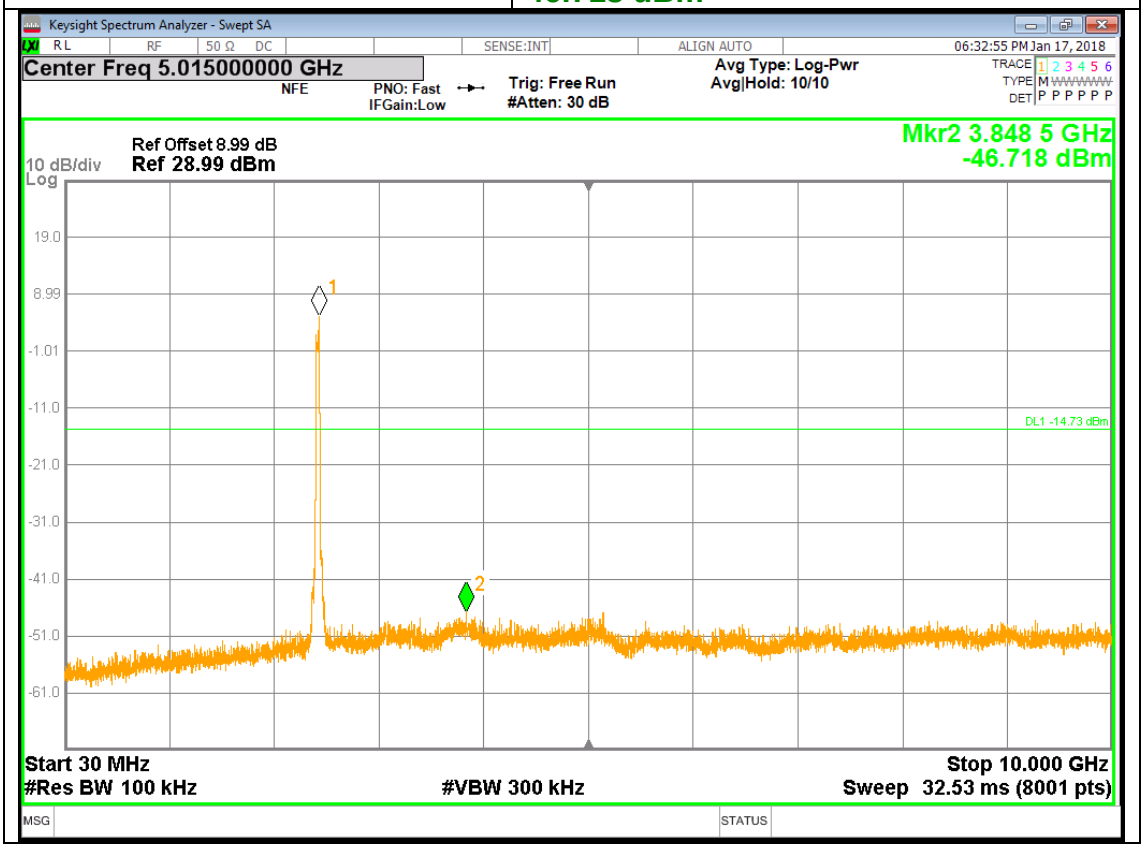
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3848.510MHz@-46.718 dBm**



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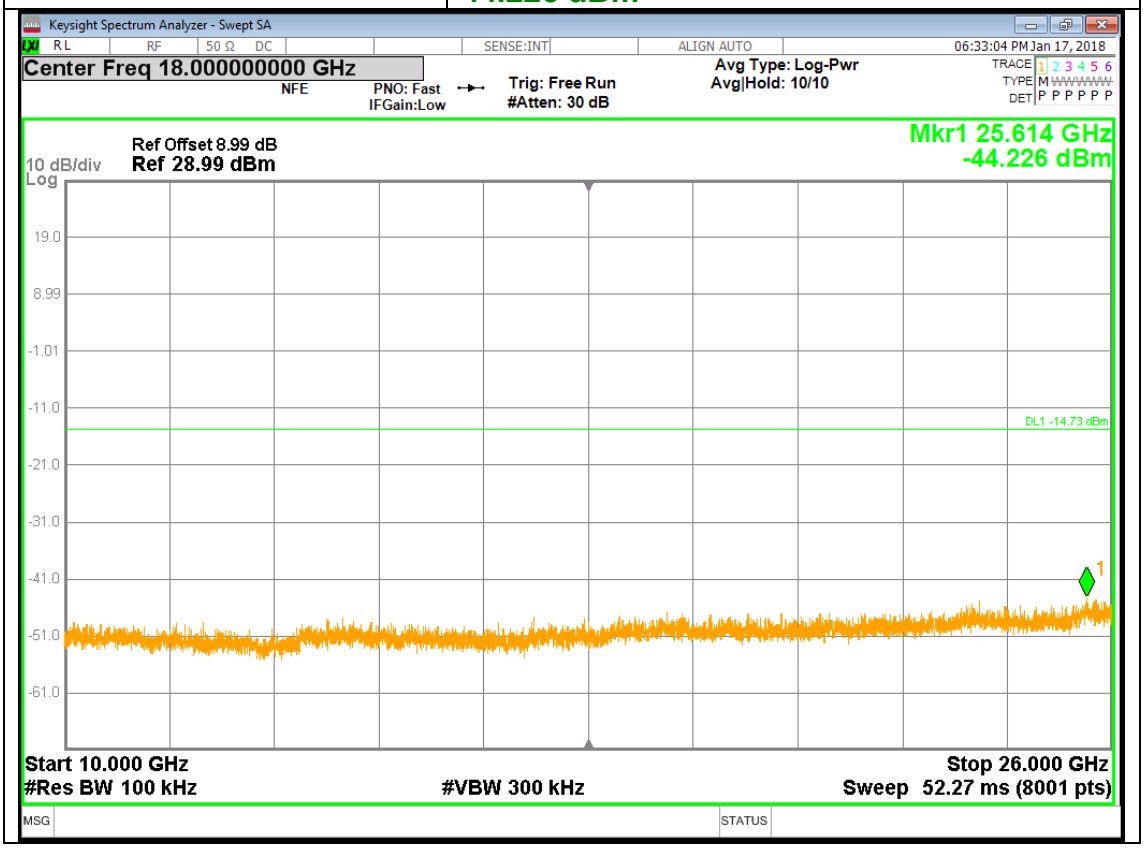
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25614.000MHz@-44.226 dBm**



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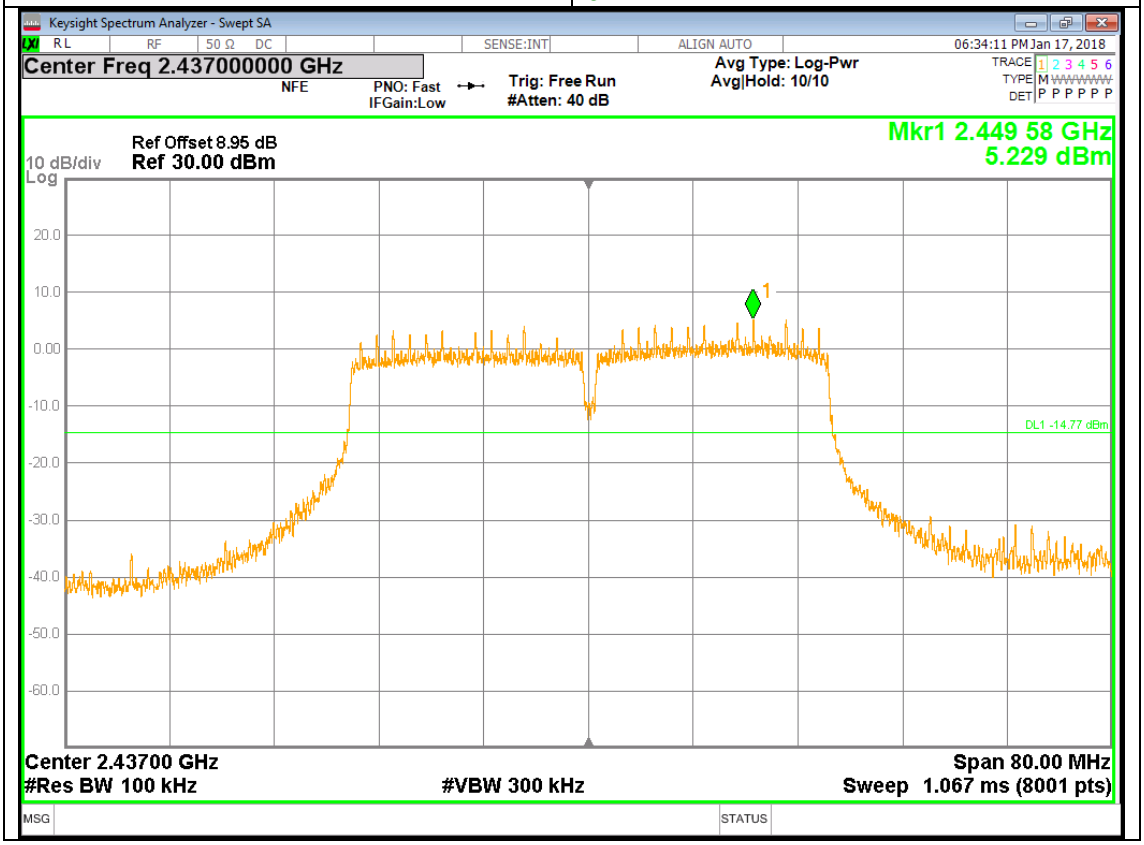
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2449.580MHz@5.229 dBm**



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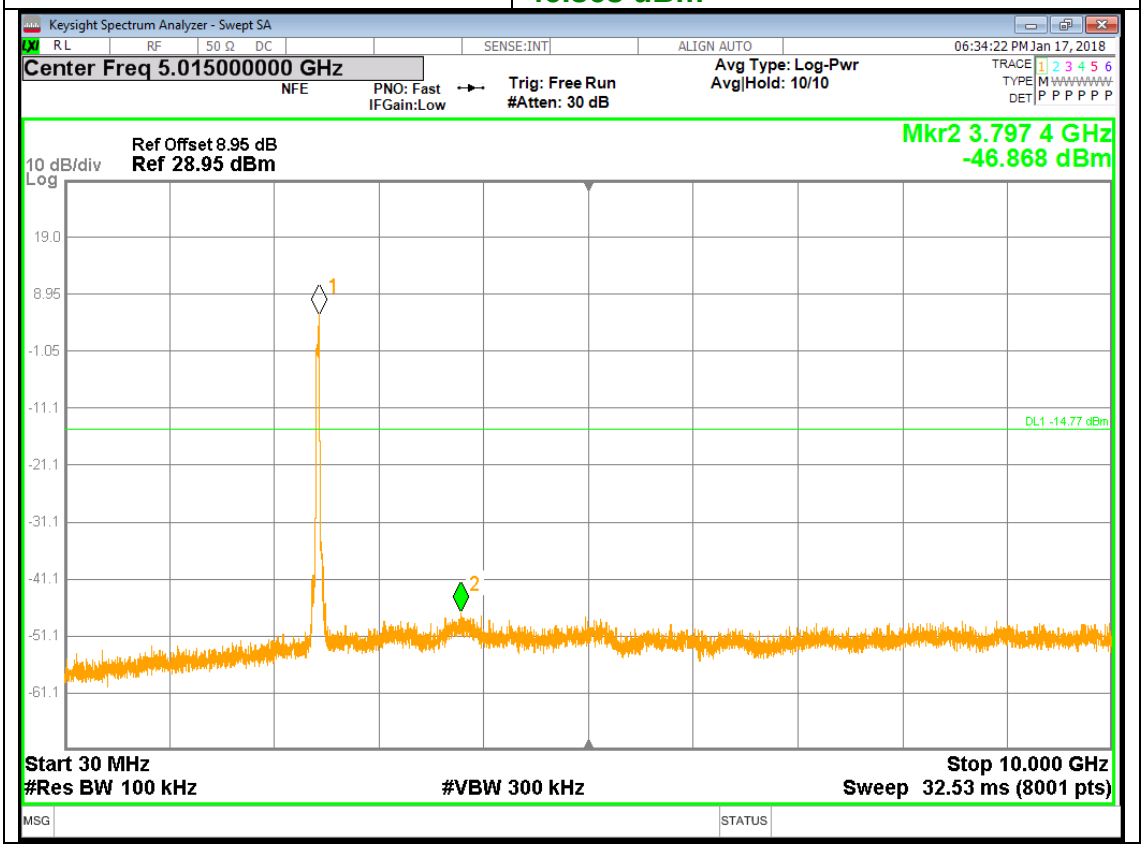
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3797.414MHz@-46.868 dBm**



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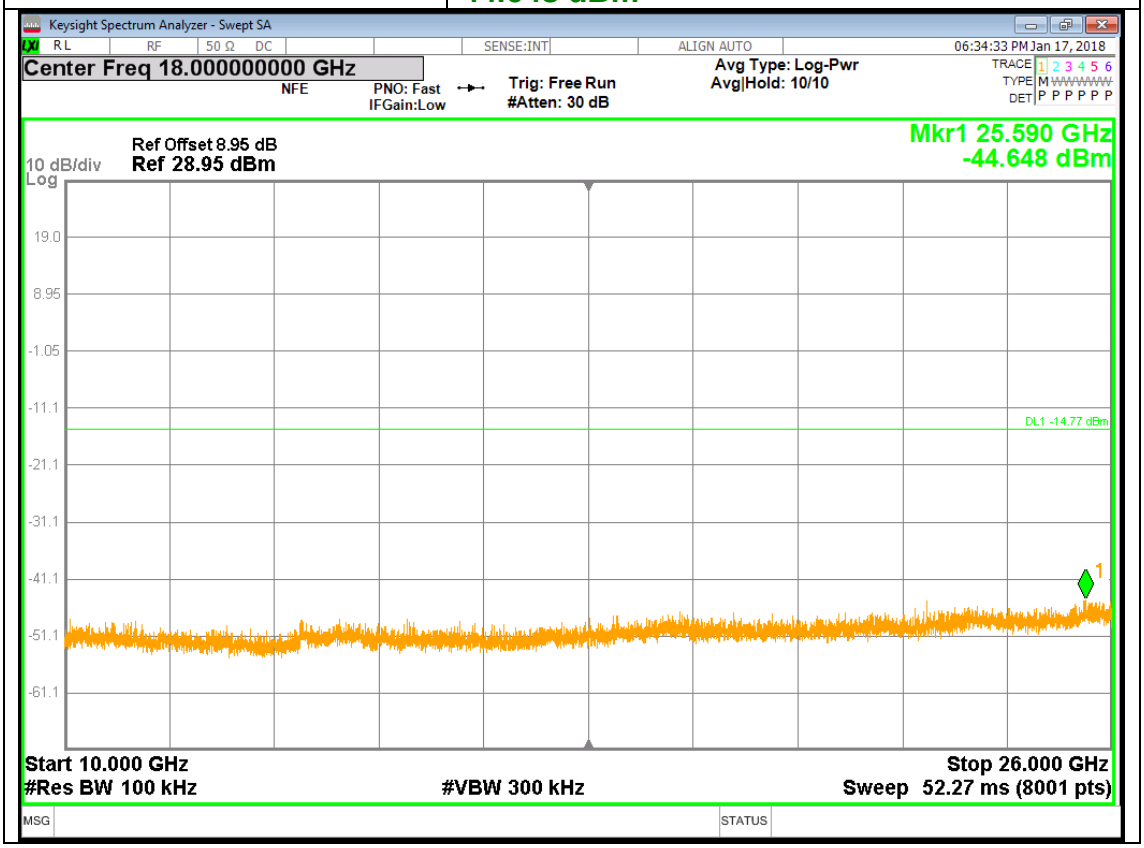
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: MCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25590.000MHz@-44.648 dBm**



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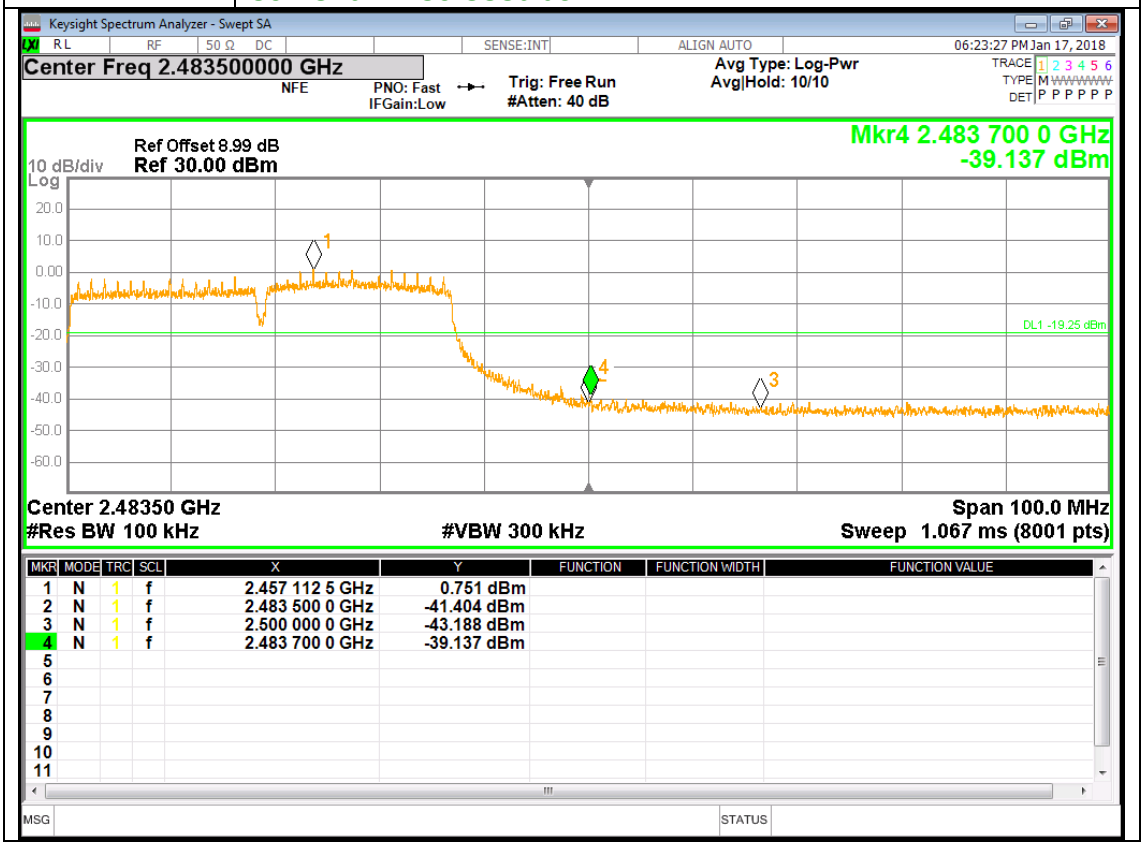
High Channel

Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:0.751dBm;Max:2483.700MHz@-39.137dBm39.888dbc**



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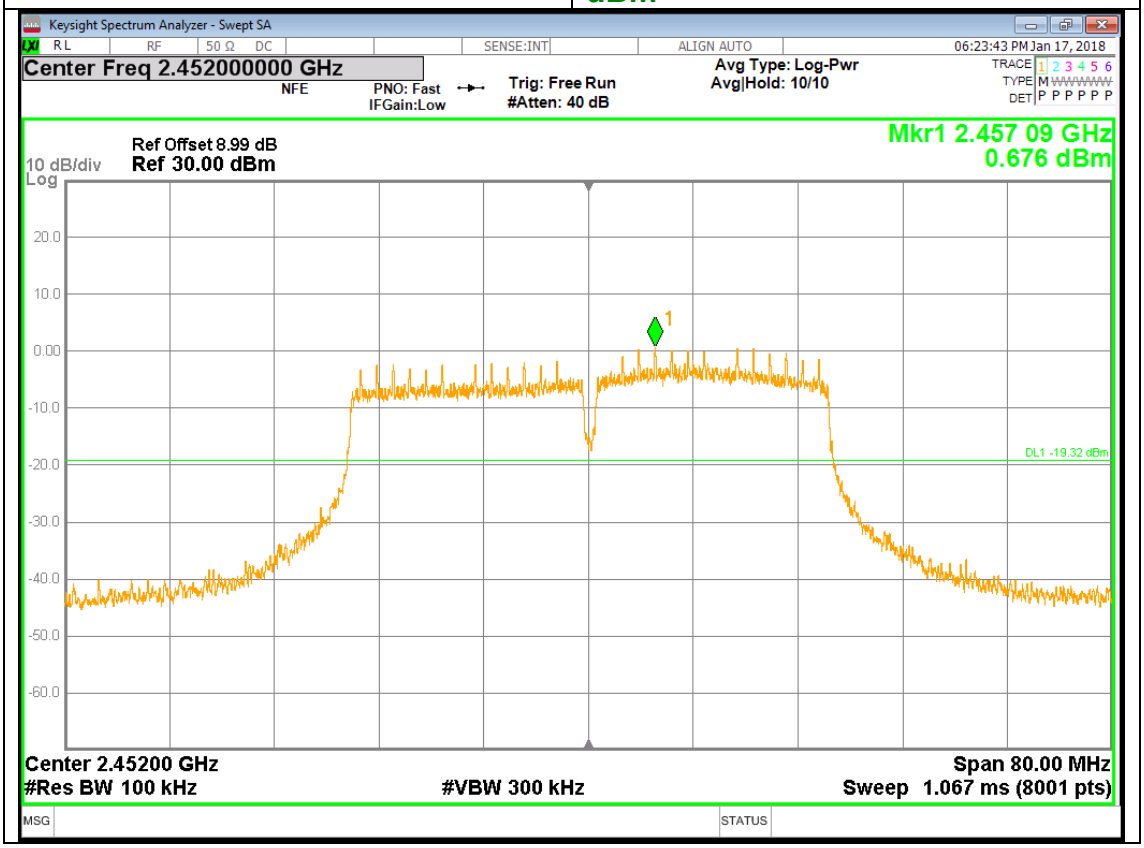
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2457.090MHz@0.676 dBm**



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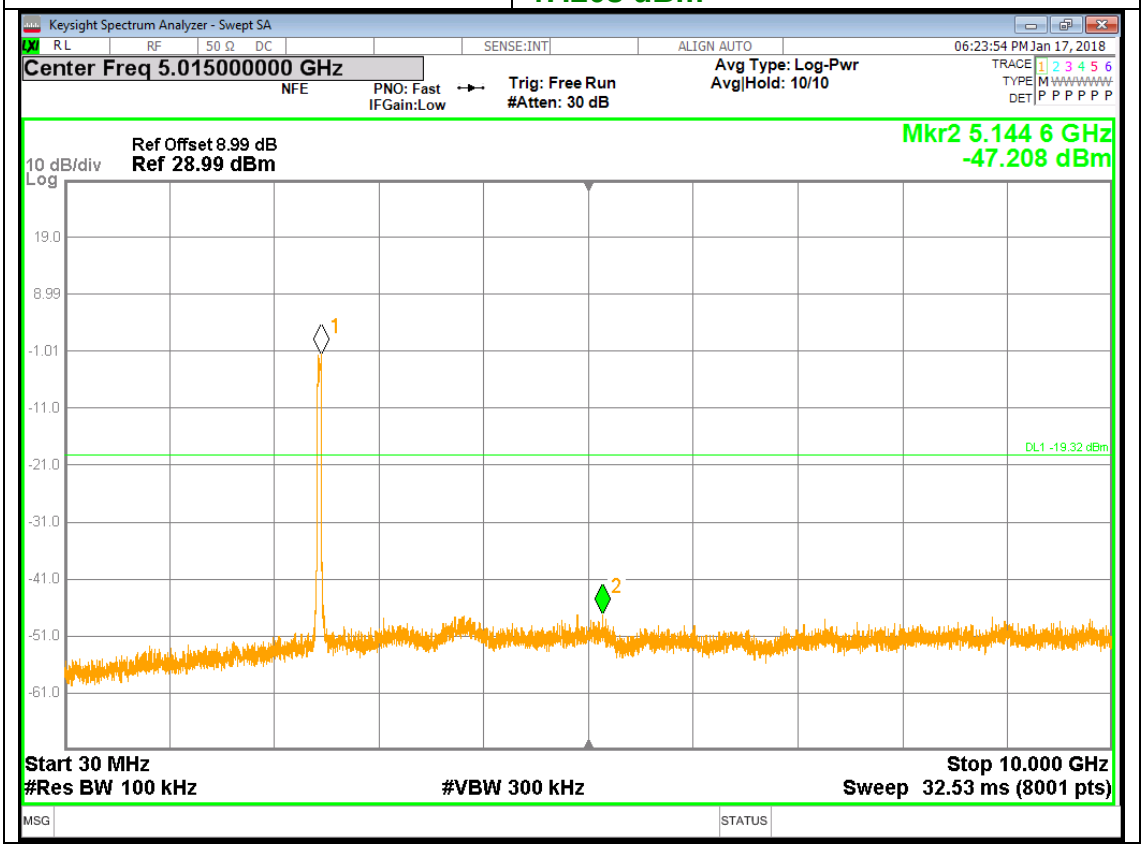
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;5144.610MHz@-47.208 dBm**



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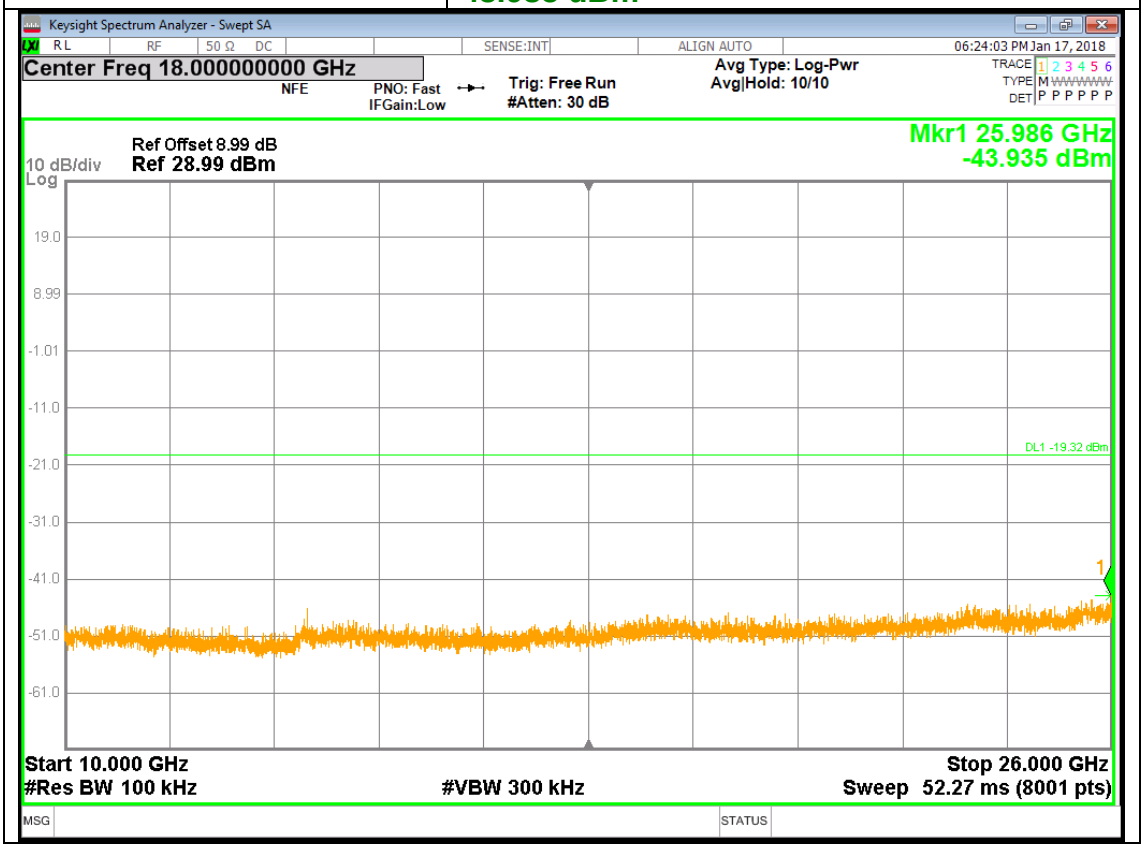
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant A
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25986.000MHz@-43.935 dBm**



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Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:0.098dBm;Max:2484.088MHz@-39.144dBm39.242dbc**

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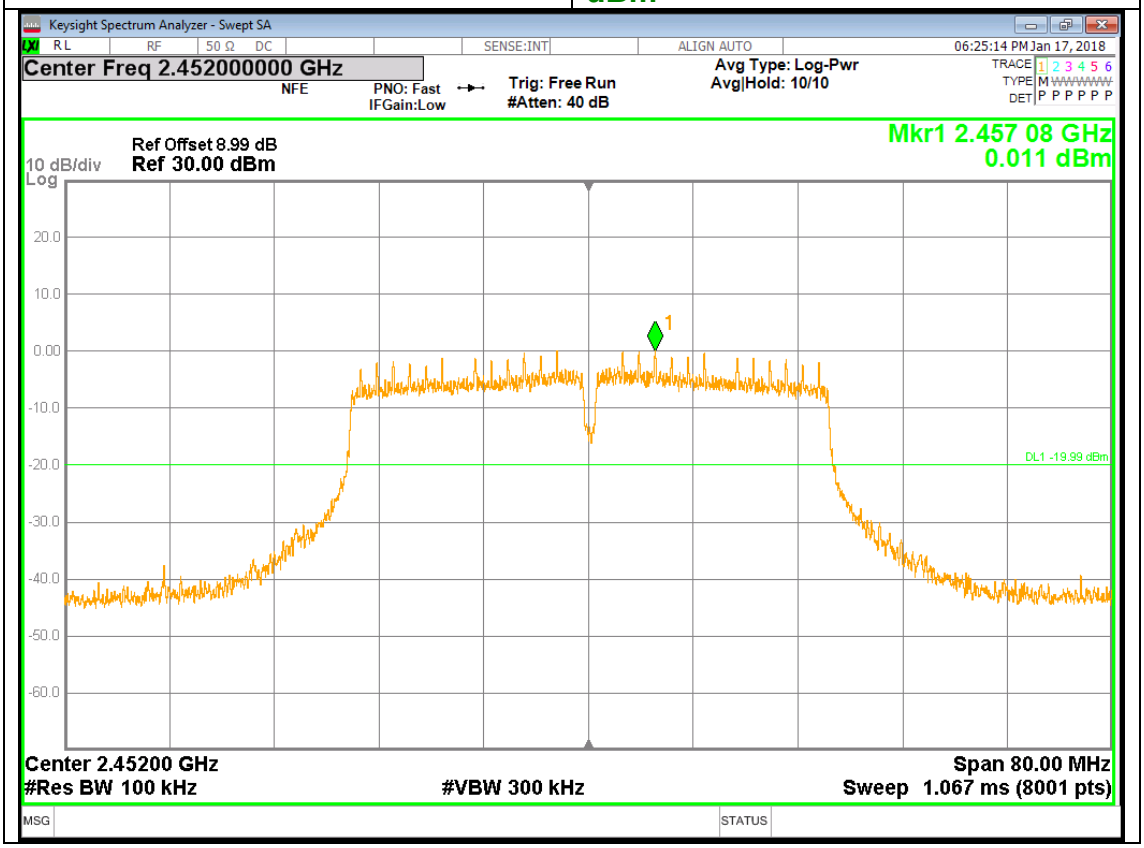
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2457.080MHz@0.011 dBm**



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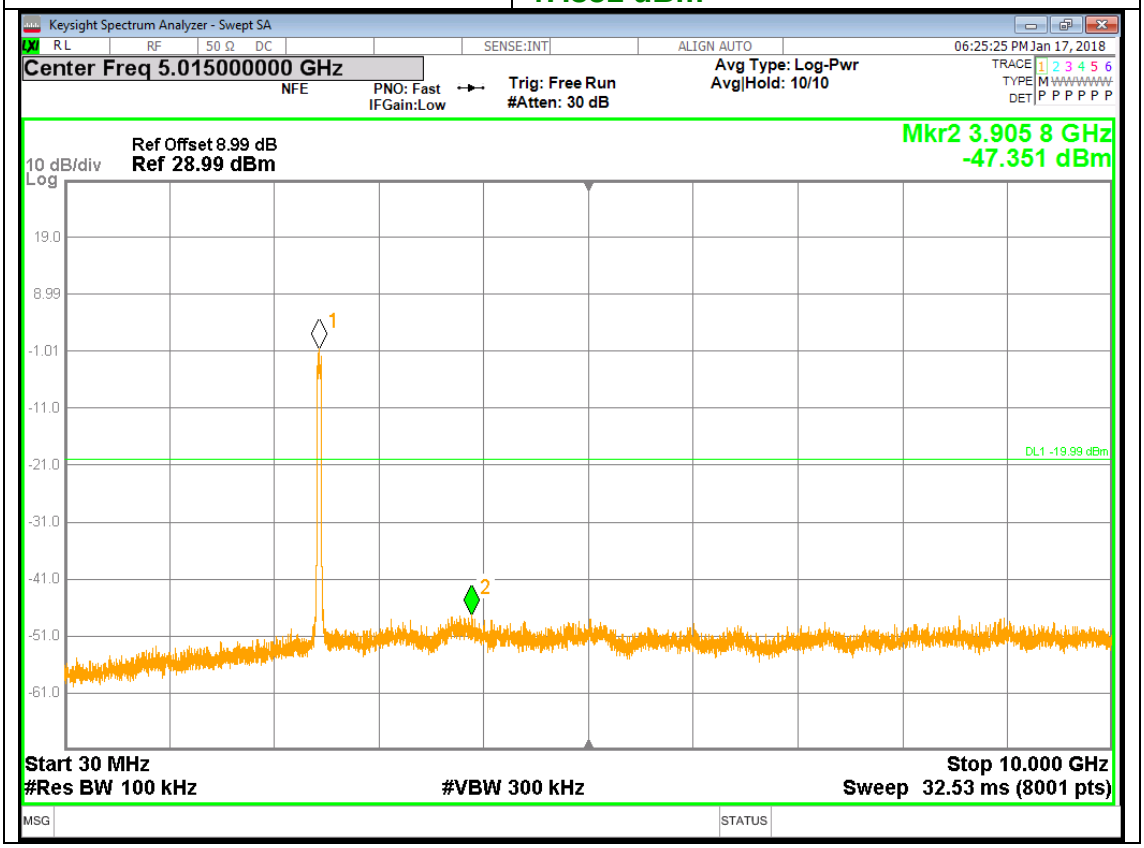
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3905.838MHz@-47.351 dBm**



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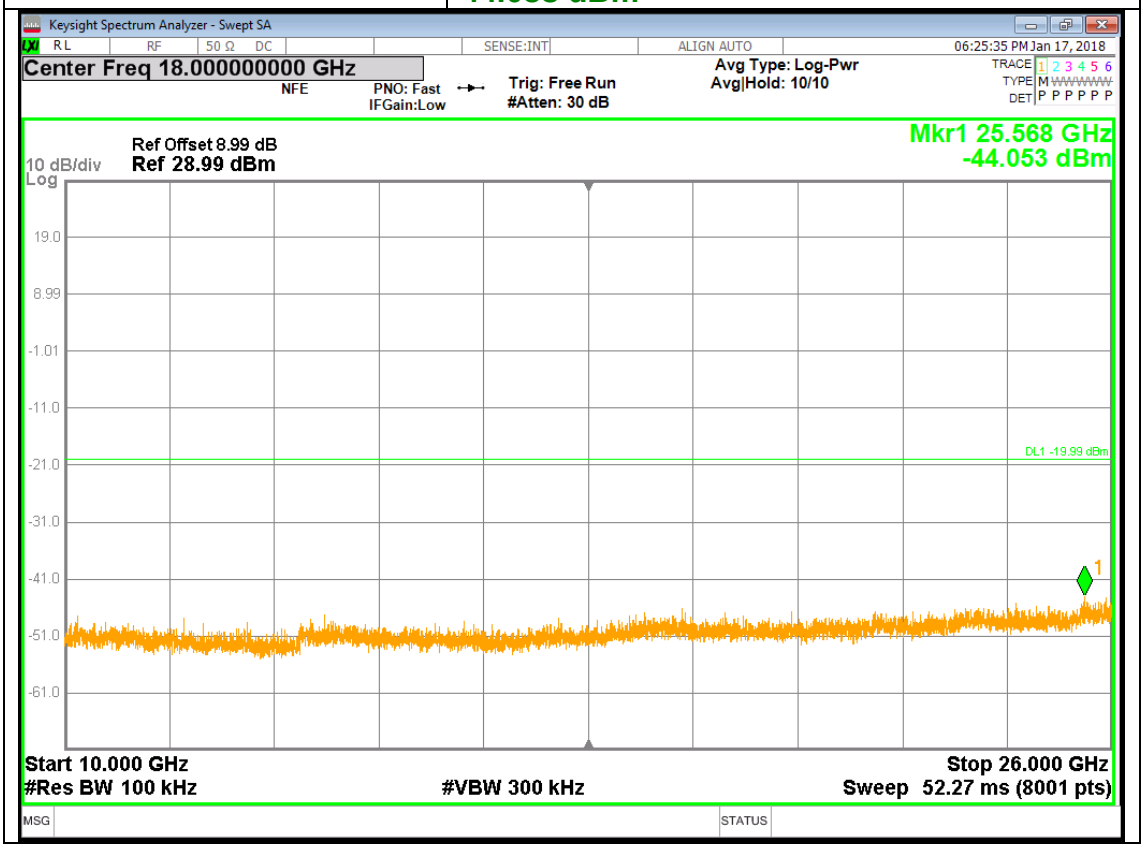
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant B
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25568.000MHz@-44.053 dBm**



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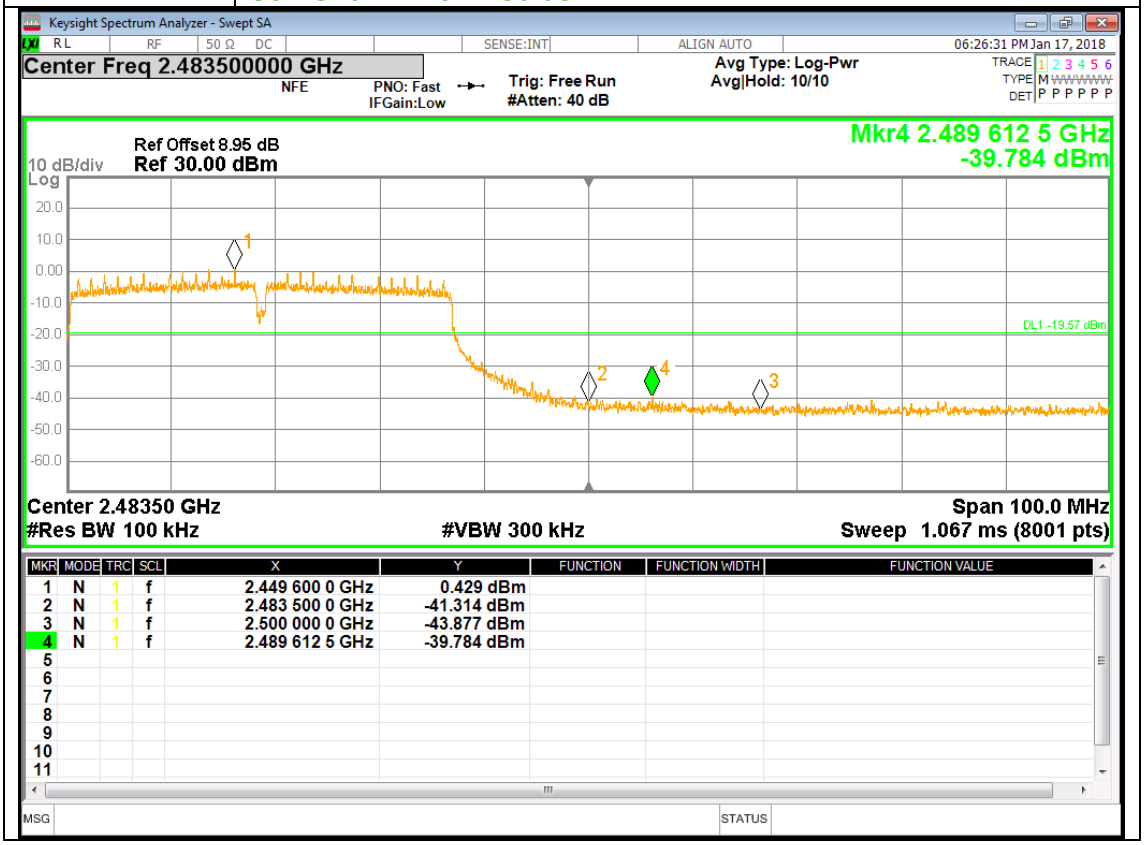
Test Case: Bandedge Compliance	
Mode: 11N40	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Peak:0.429dBm;Max:2489.613MHz@-39.784dBm40.213dbc**



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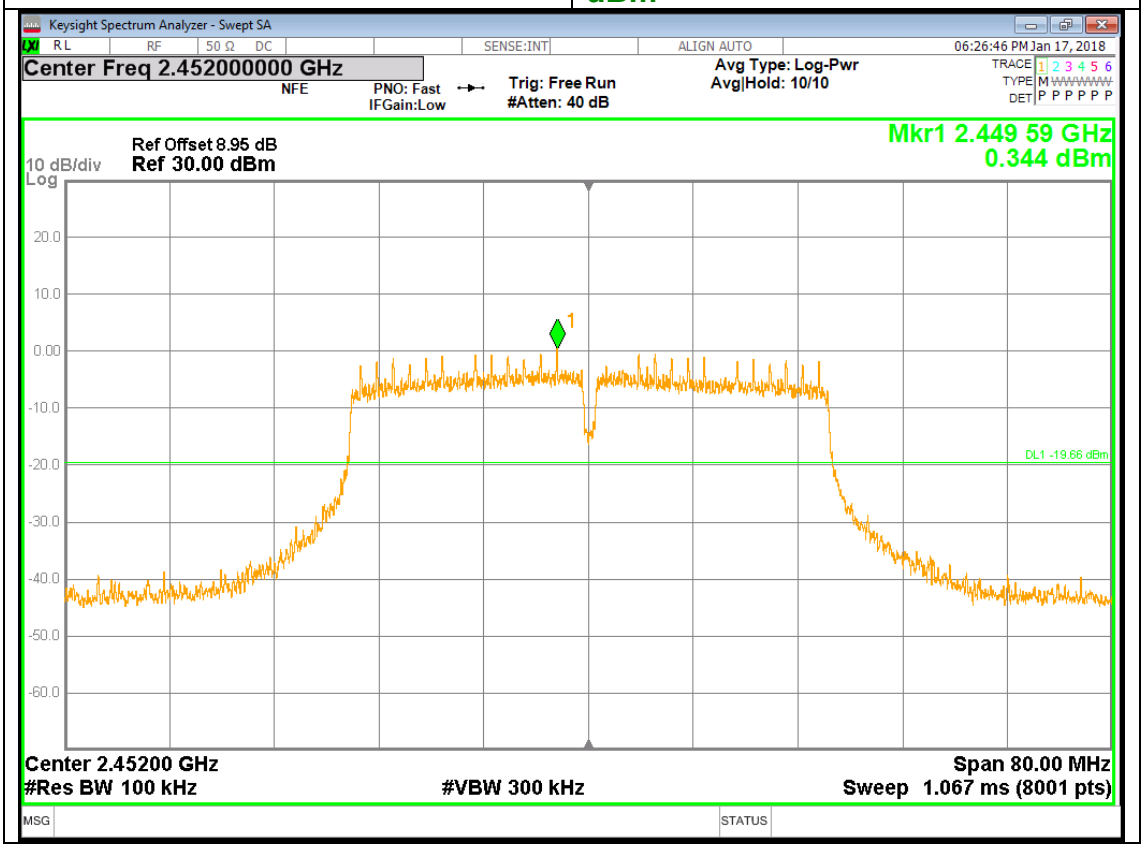
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Pref:2449.590MHz@0.344 dBm**



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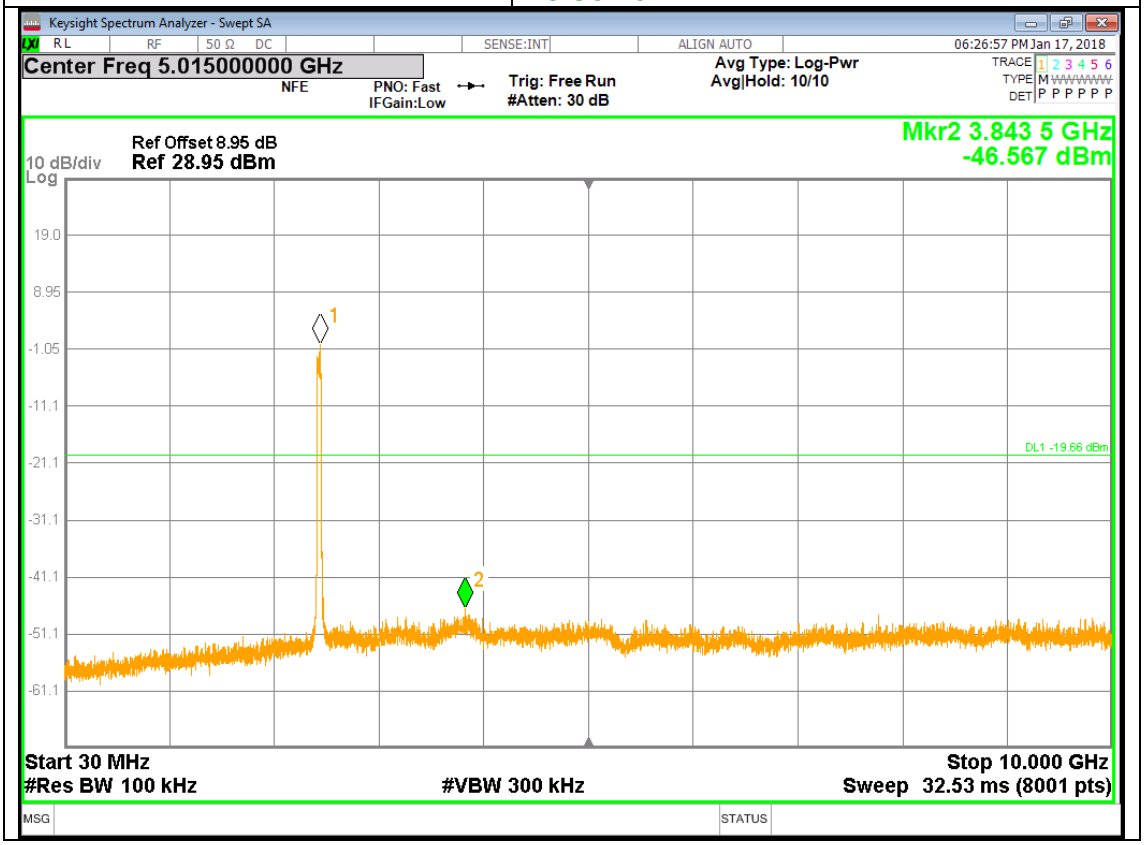
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:30~10000;3843.525MHz@-46.567 dBm**



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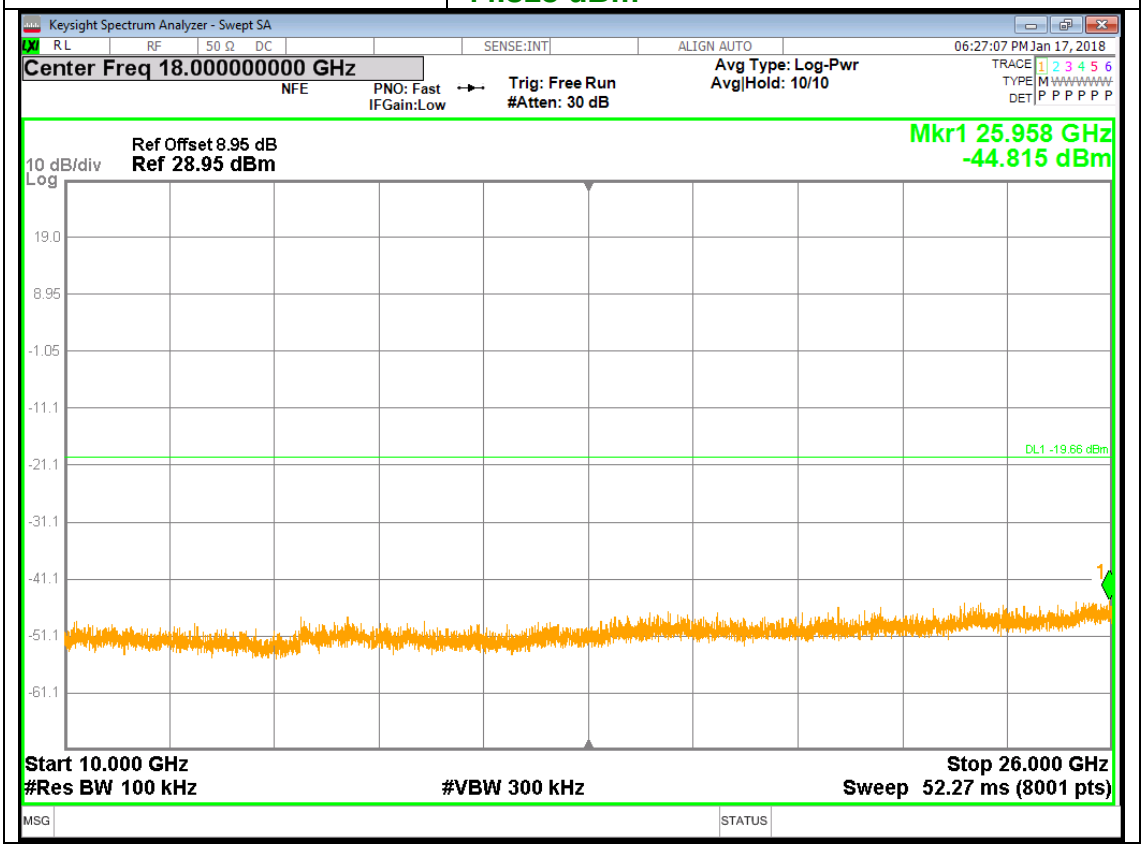
Test Case: Unwanted Emissions In Non-restricted Frequency Bands	
Mode: 11N40	Ant: Ant C
Channel: HCH	Voltage: VN
Temperature: TN	**Result: PASS** **Value:Puw:10000~26000;25958.000MHz@-44.815 dBm**



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

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