

APPENDIX REPORT

Project No.	SHT2103073007EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21030730039	Model No.	X5
Start test date	2021-04-13	Finish date	2021-04-14
Temperature	24.7°C	Humidity	43%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhu

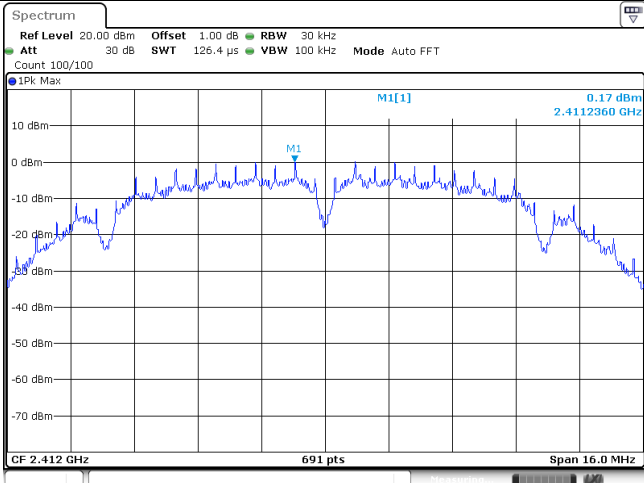
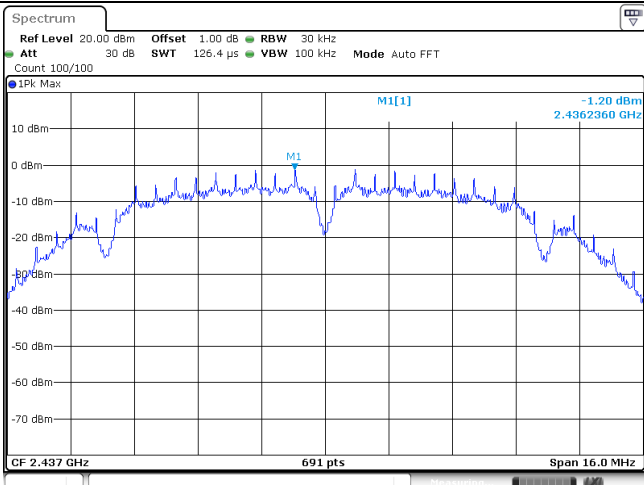
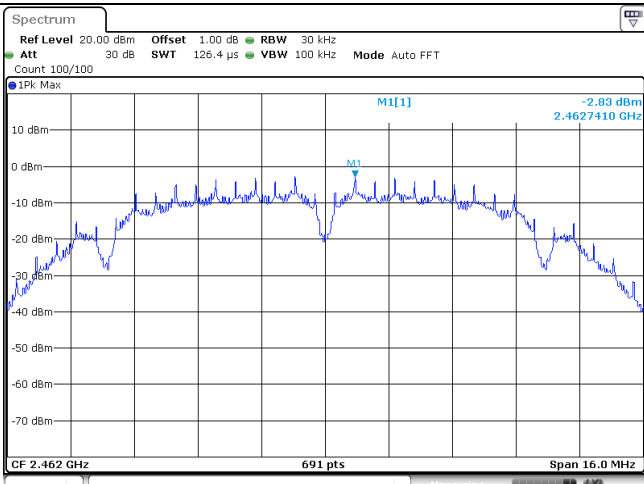
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

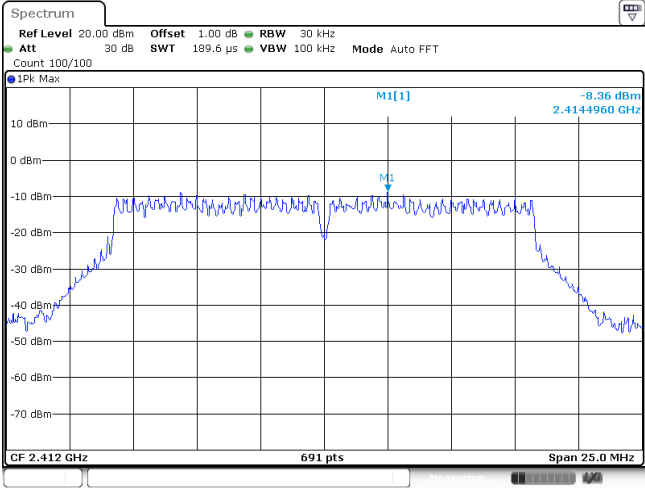
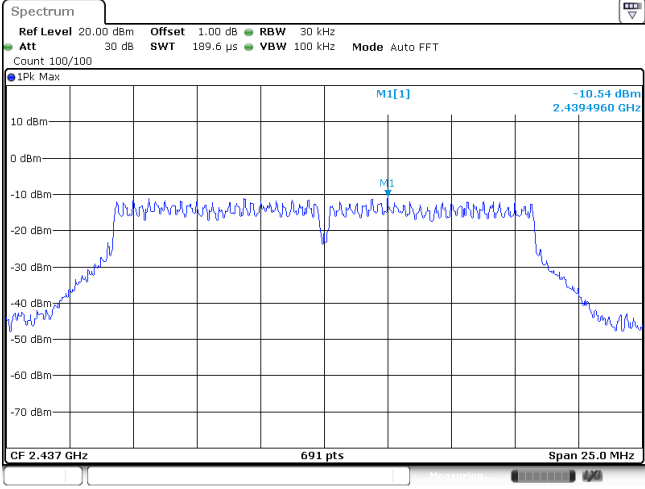
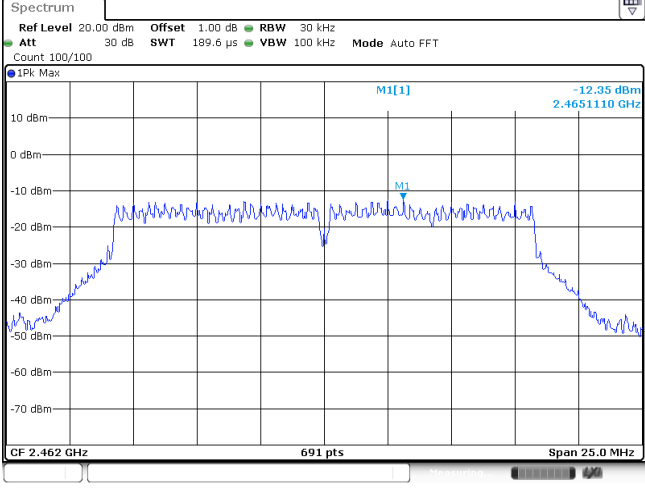
Appendix A: Conducted Peak Output Power

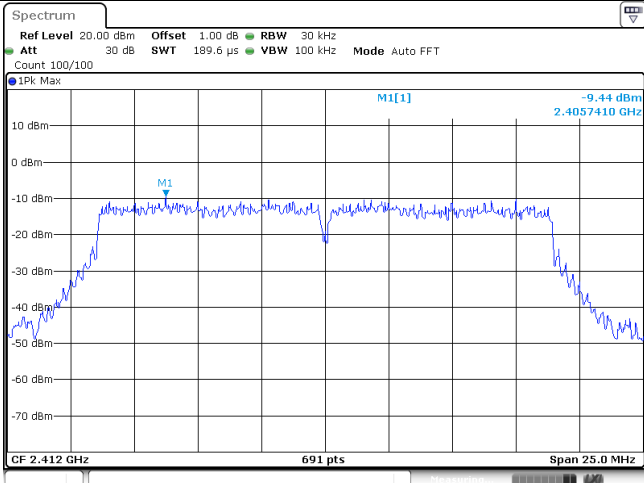
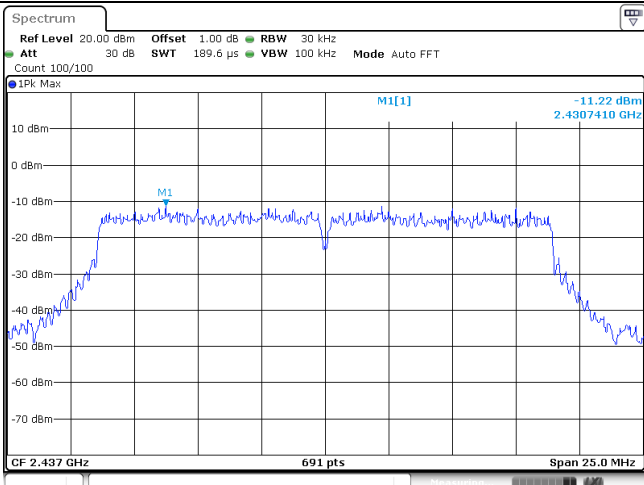
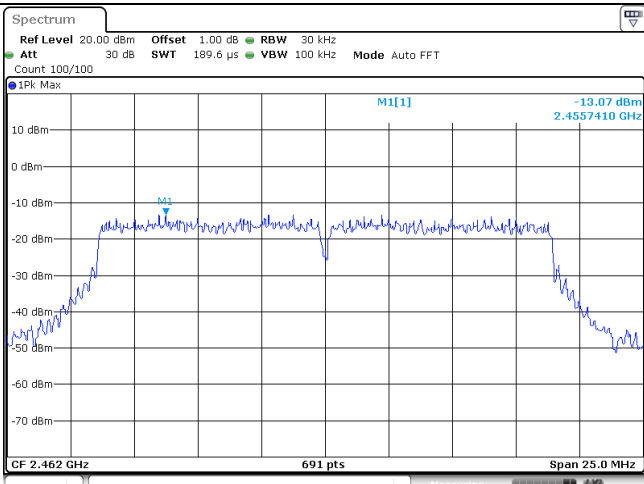
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.40	12.21	≤ 30.00	Pass
	06	13.01	10.84		
	11	11.55	9.37		
802.11g	01	15.39	11.59	≤ 30.00	Pass
	06	13.92	10.15		
	11	12.29	8.56		
802.11n (HT20)	01	15.66	12.47	≤ 30.00	Pass
	06	14.21	10.93		
	11	12.72	9.51		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.17	≤8.00	Pass
	06	-1.20		
	11	-2.82		
802.11g	01	-8.36	≤8.00	Pass
	06	-10.54		
	11	-12.35		
802.11n(HT20)	01	-9.44	≤8.00	Pass
	06	-11.22		
	11	-13.07		

Type:		802.11 b
CH01	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] 0.17 dBm 2.4112360 GHz</p> <p>CF 2.412 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13 APR 2021 13:25:42</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -1.20 dBm 2.4362360 GHz</p> <p>CF 2.437 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13 APR 2021 13:28:20</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -2.83 dBm 2.4627410 GHz</p> <p>CF 2.462 GHz 691 pts Span 16.0 MHz</p> <p>Date: 13 APR 2021 13:40:37</p>	

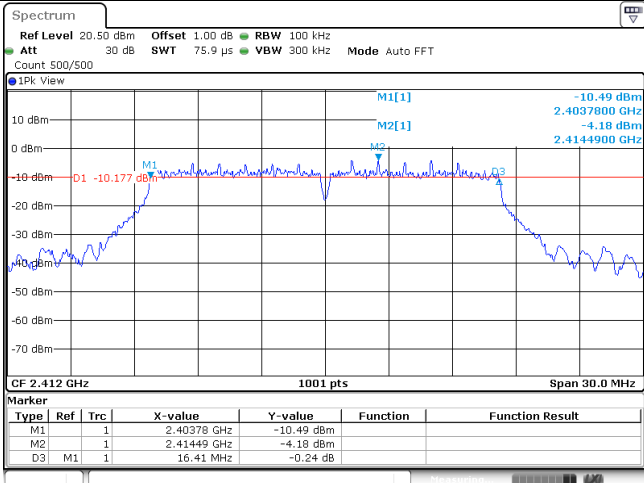
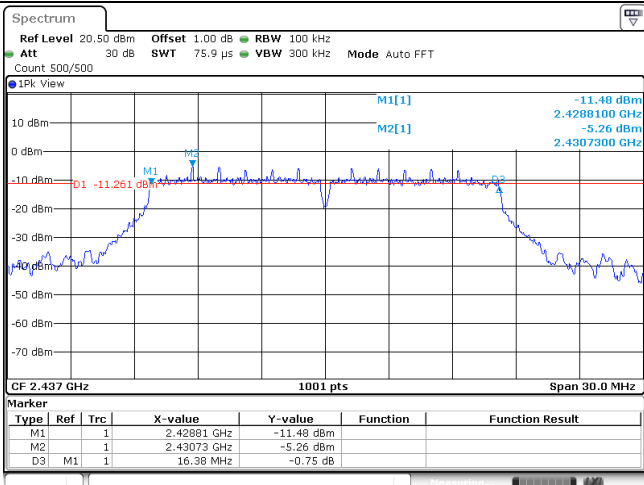
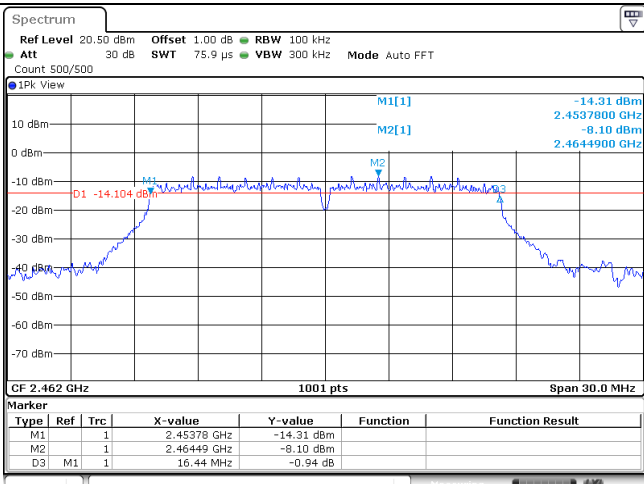
Type:		802.11 g
CH01		
CH06		
CH11		

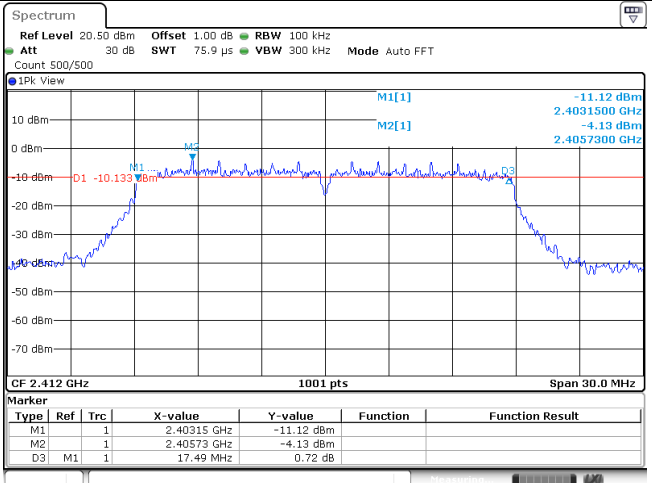
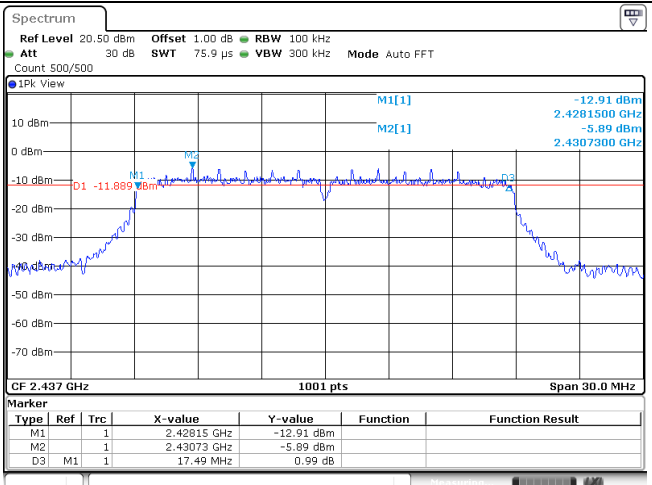
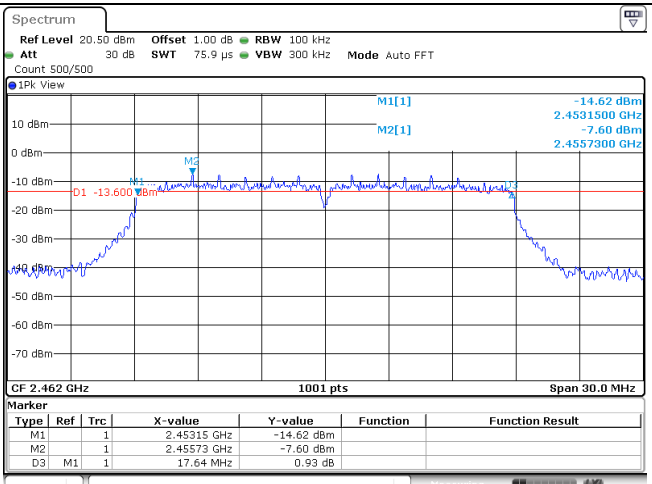
Type:		802.11n(HT20)
CH01		
CH06		
CH11		

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.87	≥0.5	Pass
	06	9.87		
	11	9.84		
802.11g	01	16.41	≥0.5	Pass
	06	16.38		
	11	16.44		
802.11n(HT20)	01	17.49	≥0.5	Pass
	06	17.49		
	11	17.64		

Type:	802.11 b																												
CH01	<p>Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40693 GHz</td> <td>-6.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.4105 GHz</td> <td>1.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.87 MHz</td> <td>0.44 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 APR 2021 13:24:44</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40693 GHz	-6.05 dBm			M2		1	2.4105 GHz	1.17 dBm			D3	M1	1	9.87 MHz	0.44 dB		
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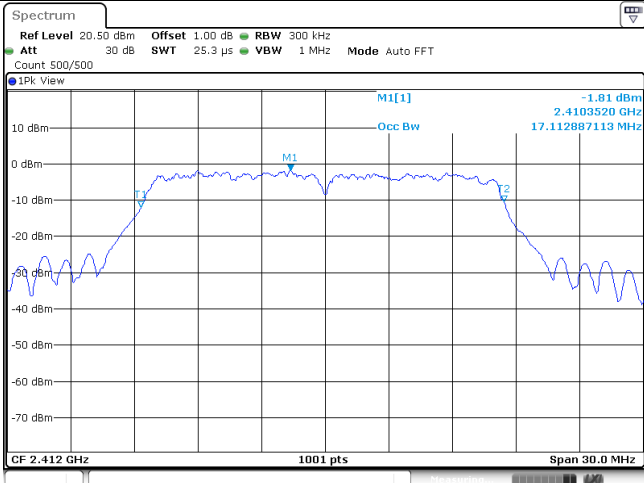
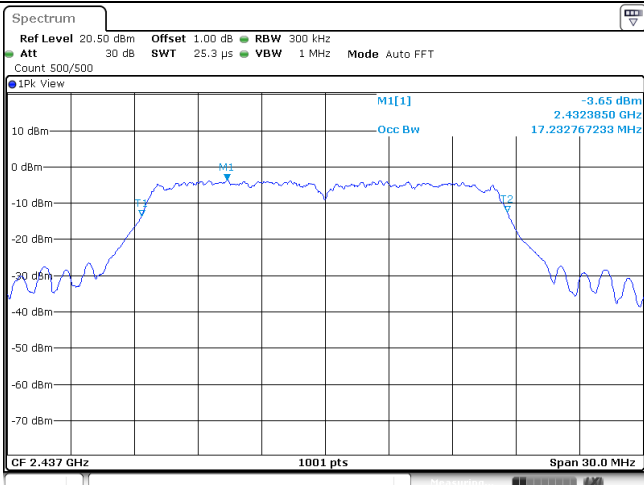
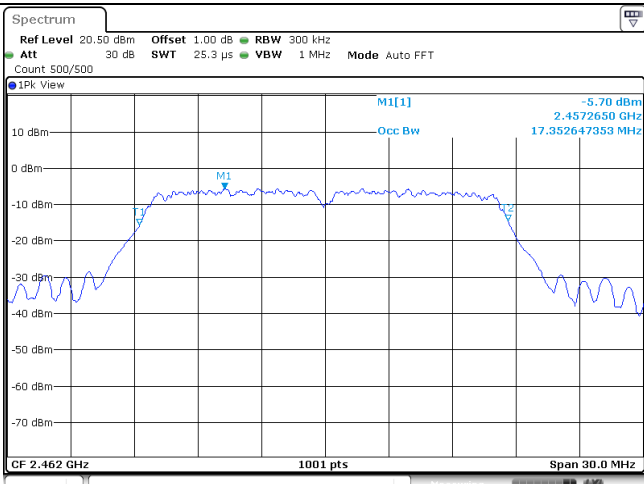
Type:		802.11 g																												
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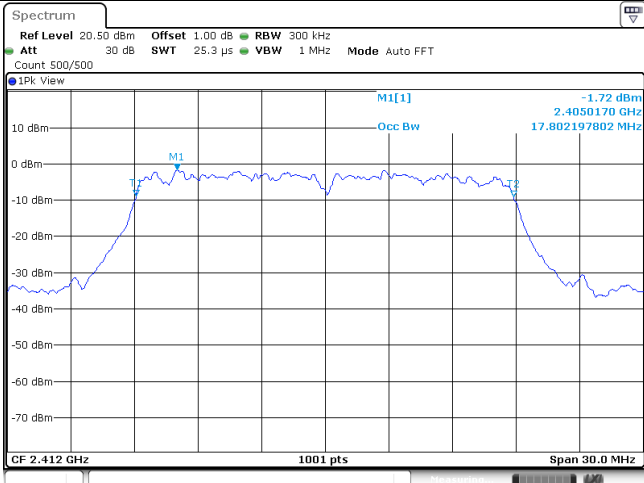
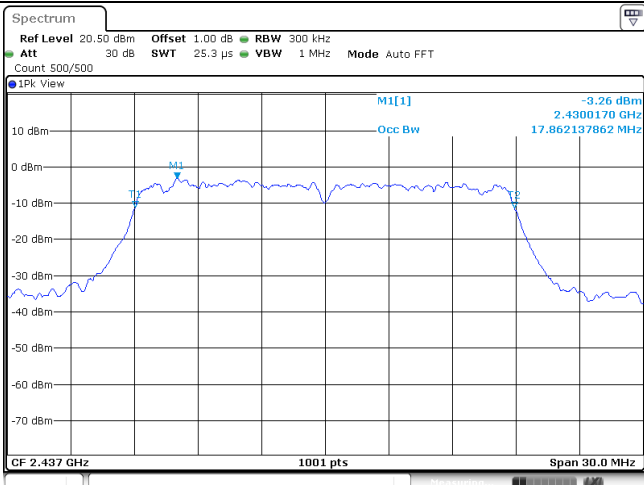
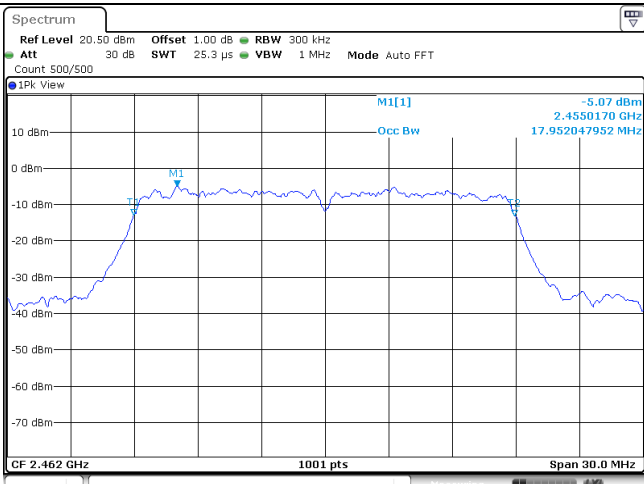
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Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.38	-	Pass
	06	12.26		
	11	12.17		
802.11g	01	17.11	-	Pass
	06	17.23		
	11	17.35		
802.11n(HT20)	01	17.80	-	Pass
	06	17.86		
	11	17.95		

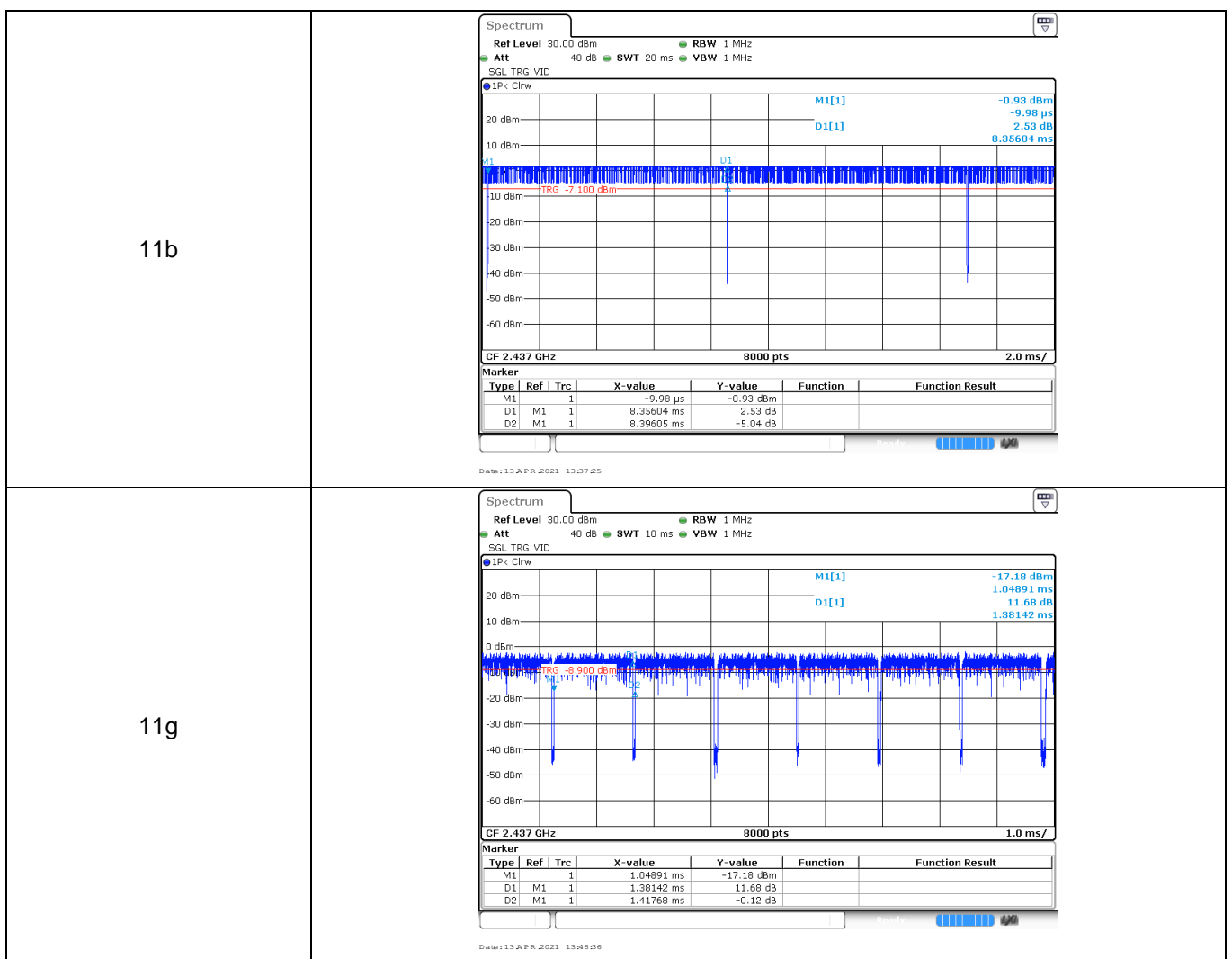
Type:		802.11 b
CH01		<p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR, 2021 13:34:52</p>
CH06		<p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR, 2021 13:37:41</p>
CH11		<p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR, 2021 13:40:04</p>

Type:		802.11 g
CH01	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -1.01 dBm 2.4103520 GHz Occ Bw 17.112887113 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:44:28</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -3.65 dBm 2.4323850 GHz Occ Bw 17.232767233 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:46:09</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -5.70 dBm 2.4572650 GHz Occ Bw 17.352647353 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:49:08</p>	

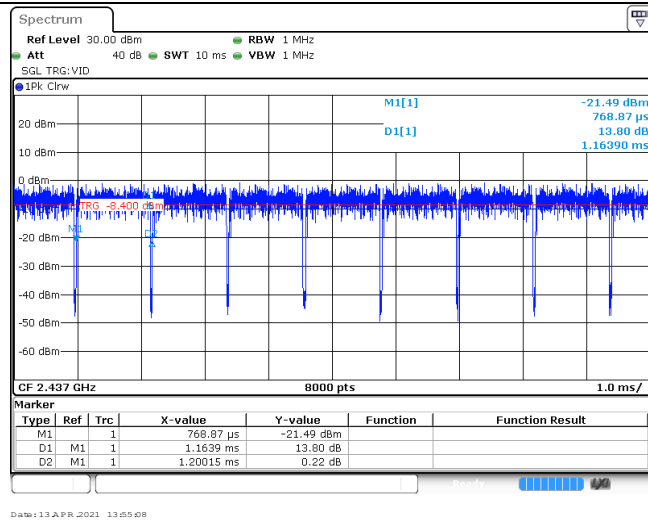
Type:		802.11n(HT20)
CH01	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -1.72 dBm 2.4050170 GHz Occ Bw 17.802197802 MHz</p> <p>CF 2.412 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:51:56</p>	
CH06	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -3.26 dBm 2.4300170 GHz Occ Bw 17.862137862 MHz</p> <p>CF 2.437 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:55:31</p>	
CH11	 <p>Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500</p> <p>IPK View</p> <p>M1[1] -5.07 dBm 2.4550170 GHz Occ Bw 17.952047952 MHz</p> <p>CF 2.462 GHz 1001 pts Span 30.0 MHz</p> <p>Date: 13 APR 2021 13:58:28</p>	

Appendix E: Duty Cycle

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.36	8.40	99.5%	0.1
11g	2437	1.38	1.42	97.2%	0.7
11n20	2437	1.16	1.20	96.7%	0.9


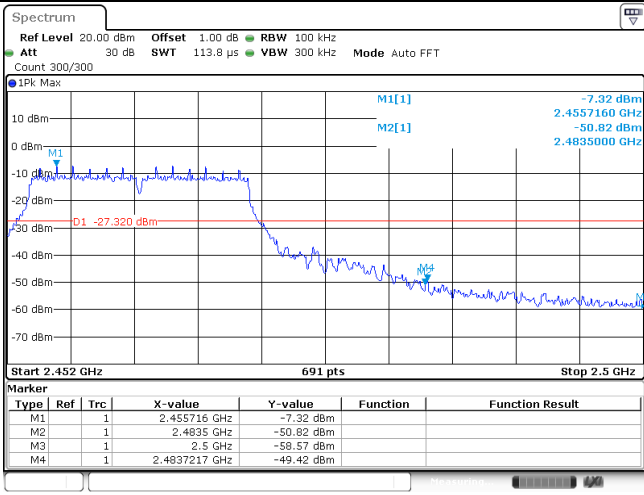



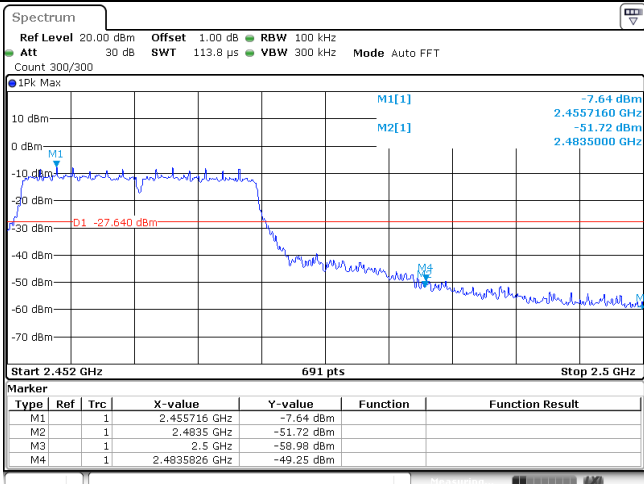
11n20



Appendix F: Band edge and Spurious Emissions (conducted)

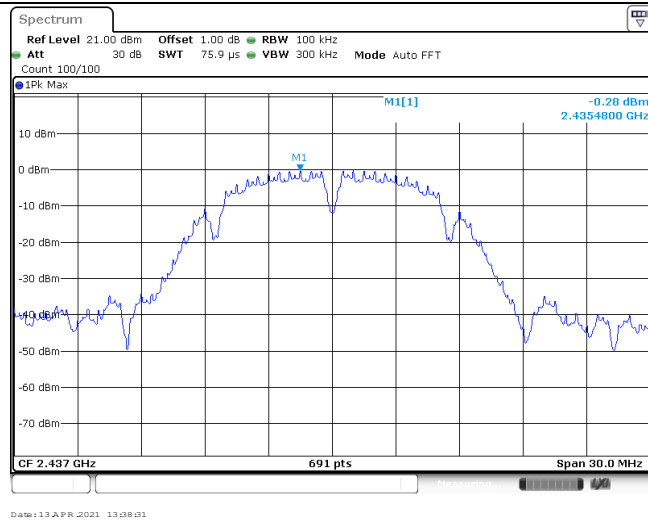
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CH01	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 1.11 dBm 2.410410 GHz M2[1] -39.45 dBm 2.400000 GHz M3 -52.61 dBm 2.39 GHz M4 -58.95 dBm 2.31 GHz M5 -35.65 dBm 2.399113 GHz</p> <p>D1 -18.890 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41041 GHz</td> <td>1.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-39.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-58.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399113 GHz</td> <td>-35.65 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 APR 2021 13:35:53</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41041 GHz	1.11 dBm			M2	1		2.4 GHz	-39.45 dBm			M3	1		2.39 GHz	-52.61 dBm			M4	1		2.31 GHz	-58.95 dBm			M5	1		2.399113 GHz	-35.65 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41041 GHz	1.11 dBm																																									
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M5	1		2.399113 GHz	-35.65 dBm																																									
CH11	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 113.8 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] -1.98 dBm 2.4605090 GHz M2[1] -57.18 dBm 2.4835000 GHz</p> <p>D1 -21.980 dBm</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.460509 GHz</td> <td>-1.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-60.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4845565 GHz</td> <td>-55.14 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 APR 2021 13:40:46</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.460509 GHz	-1.98 dBm			M2	1		2.4835 GHz	-57.18 dBm			M3	1		2.5 GHz	-60.22 dBm			M4	1		2.4845565 GHz	-55.14 dBm									
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Test Item:	Bandedge	Type:	802.11 g																																										
CH01	 <p>Marker</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40571 GHz</td> <td>-9.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-35.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-46.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-59.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.398951 GHz</td> <td>-34.09 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 APR. 2021 13:45:06</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40571 GHz	-9.67 dBm			M2	1	1	2.4 GHz	-35.14 dBm			M3	1	1	2.39 GHz	-46.85 dBm			M4	1	1	2.31 GHz	-59.19 dBm			M5	1	1	2.398951 GHz	-34.09 dBm		
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M2	1	1	2.4 GHz	-35.14 dBm																																									
M3	1	1	2.39 GHz	-46.85 dBm																																									
M4	1	1	2.31 GHz	-59.19 dBm																																									
M5	1	1	2.398951 GHz	-34.09 dBm																																									
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M1	1	1	2.455715 GHz	-7.32 dBm																																									
M2	1	1	2.4835 GHz	-50.82 dBm																																									
M3	1	1	2.5 GHz	-58.57 dBm																																									
M4	1	1	2.4837217 GHz	-49.42 dBm																																									

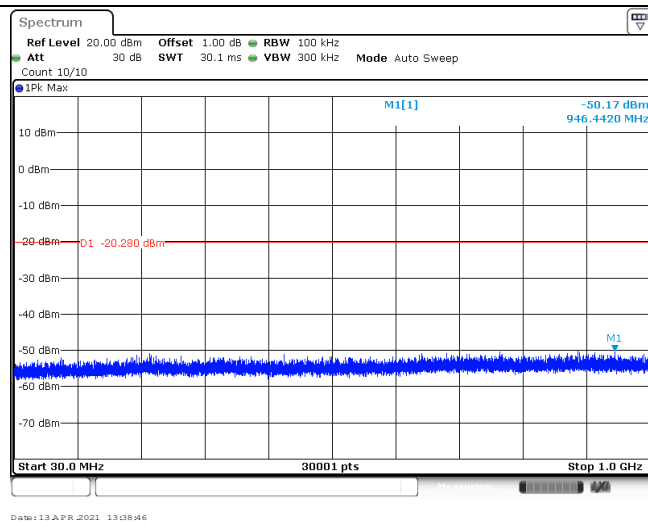
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	 <p>Marker Table:</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td>1</td> <td>2.40571 GHz</td> <td>-4.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td>1</td> <td>2.4 GHz</td> <td>-38.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td>1</td> <td>2.39 GHz</td> <td>-47.75 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td>1</td> <td>2.31 GHz</td> <td>-59.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td>1</td> <td>2.399762 GHz</td> <td>-38.64 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13 APR. 2021 13:52:56</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1	1	2.40571 GHz	-4.21 dBm			M2	1	1	2.4 GHz	-38.06 dBm			M3	1	1	2.39 GHz	-47.75 dBm			M4	1	1	2.31 GHz	-59.32 dBm			M5	1	1	2.399762 GHz	-38.64 dBm		
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M2	1	1	2.4835 GHz	-51.72 dBm																																									
M3	1	1	2.5 GHz	-58.98 dBm																																									
M4	1	1	2.4835826 GHz	-49.25 dBm																																									

Test Item:	SE	Type:	802.11 b
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<p>CH01 30MHz~1000MHz</p>		<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -50.64 dBm 684.5180 MHz D1 -18.800 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 13 APR 2021 13:26:23</p>	
<p>CH01 1GHz~26GHz</p>		<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -41.62 dBm 15.878333 GHz D1 -18.800 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 13 APR 2021 13:26:28</p>	

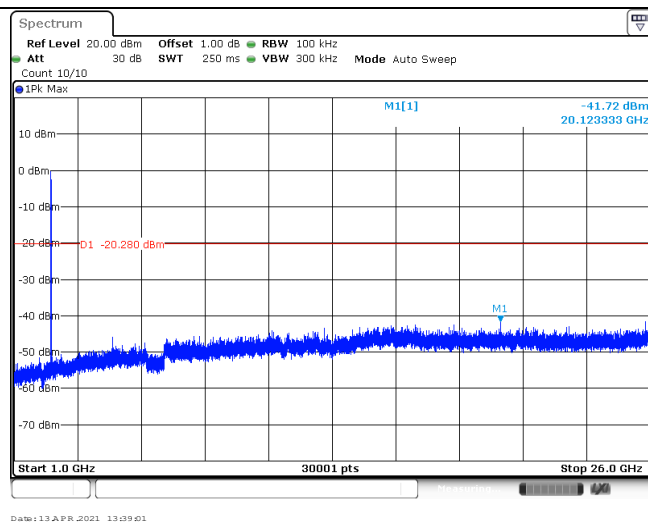
CH06
Reference level



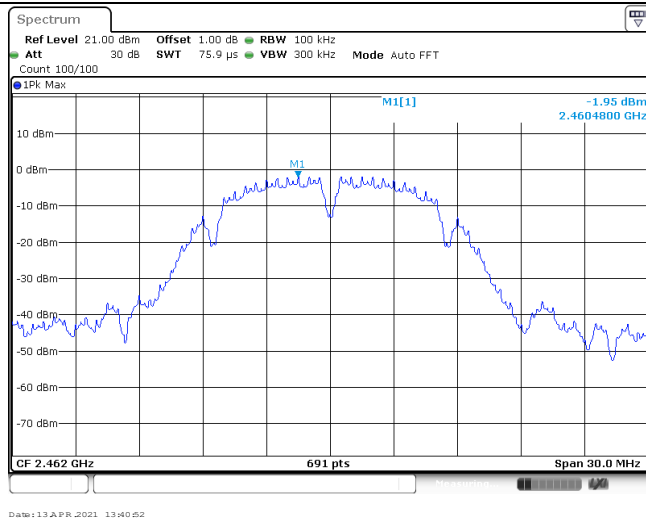
CH06
30MHz~1000MHz



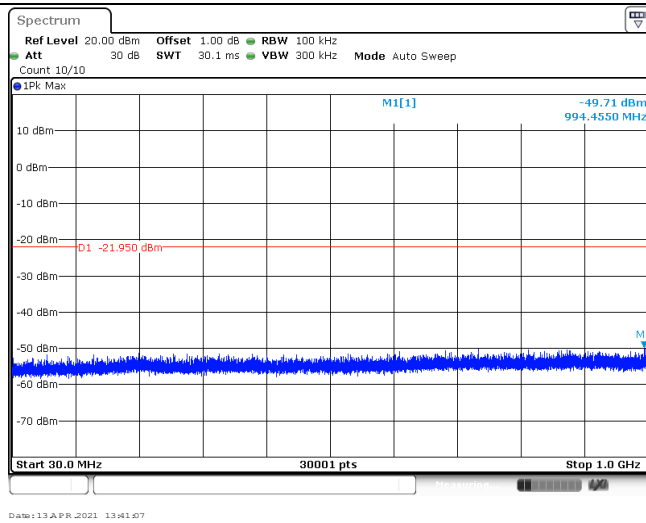
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1GHz~26GHz



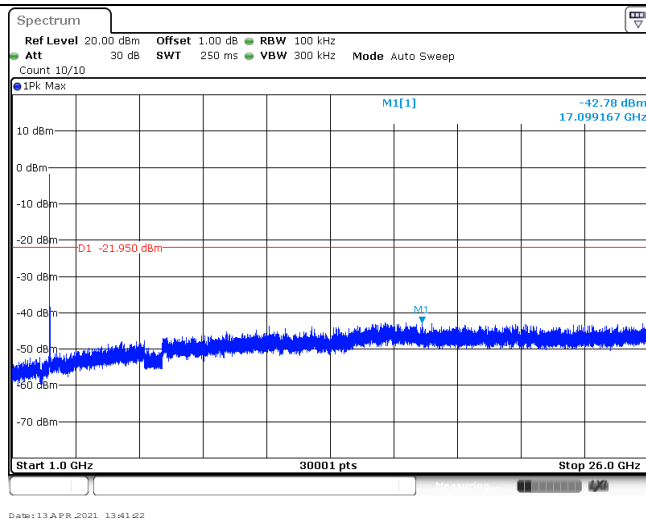
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Reference level

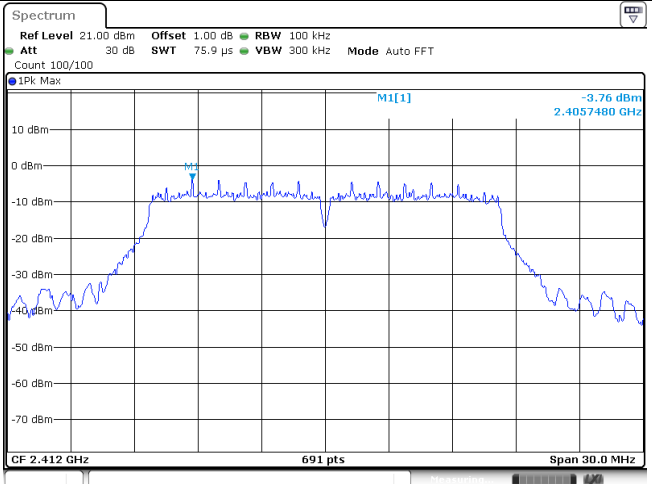
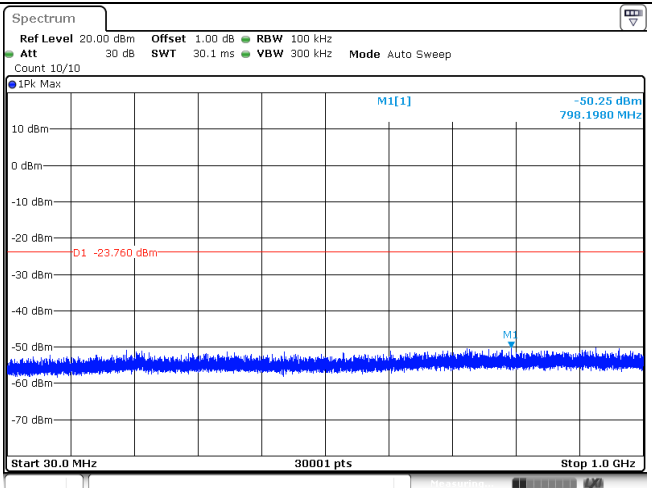
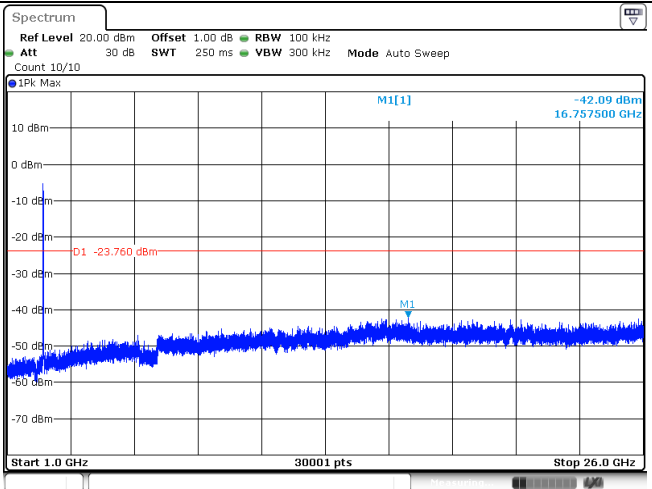


CH11
30MHz~1000MHz

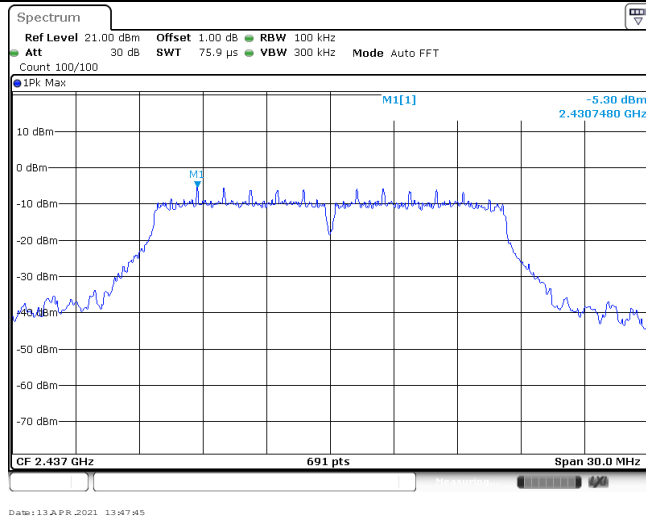


CH11
1GHz~26GHz

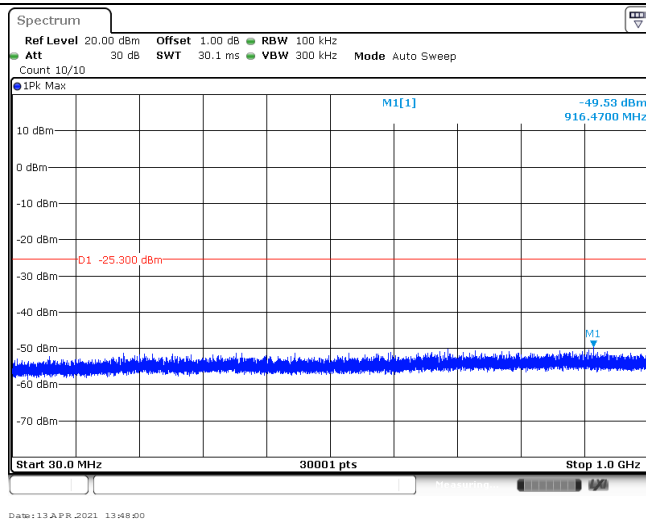


Test Item:	SE	Type:	802.11 g
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

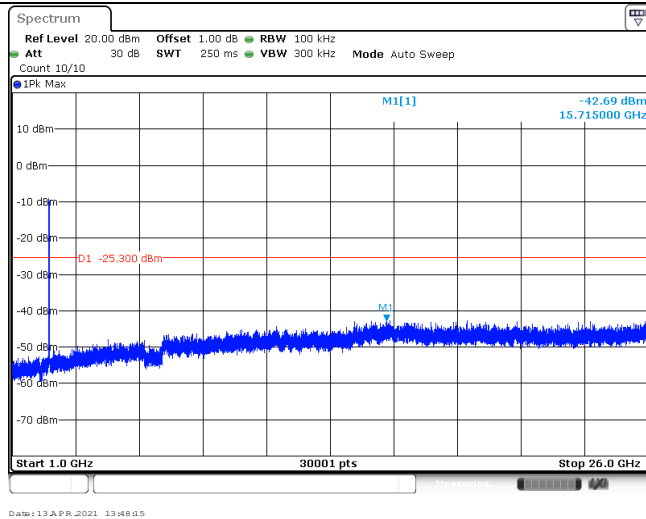
CH06
Reference level



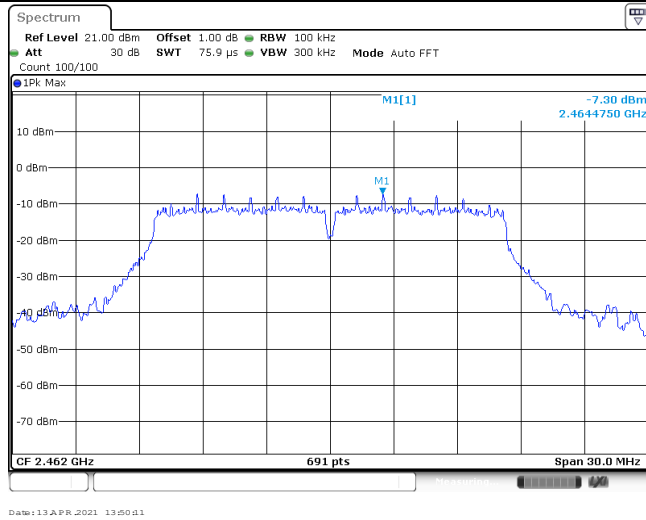
CH06
30MHz~1000MHz



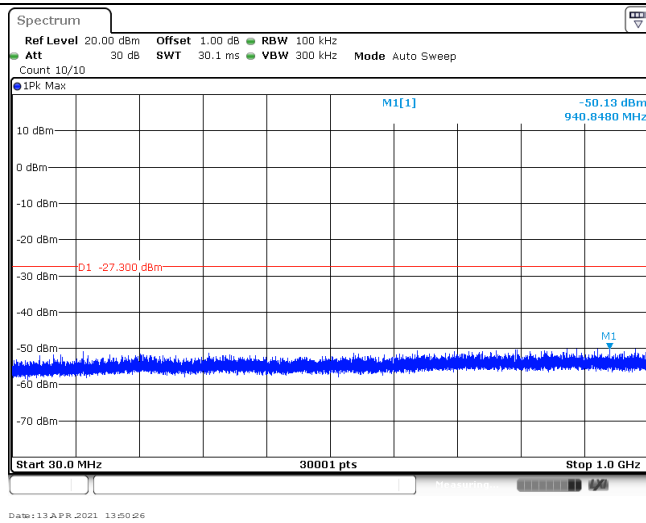
CH06
1GHz~26GHz



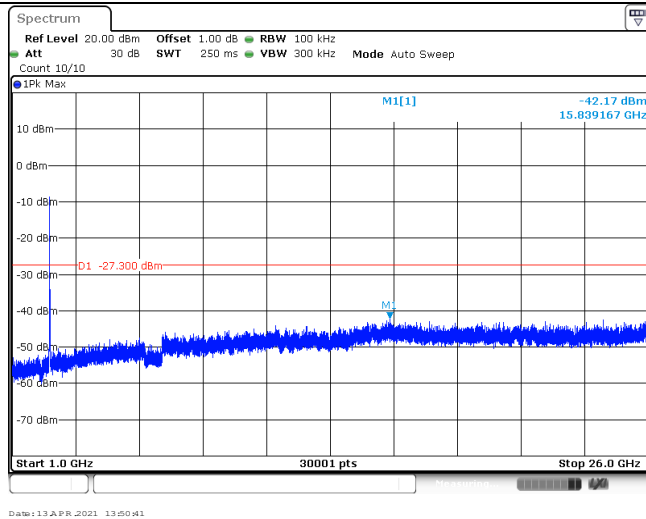
CH11
Reference level

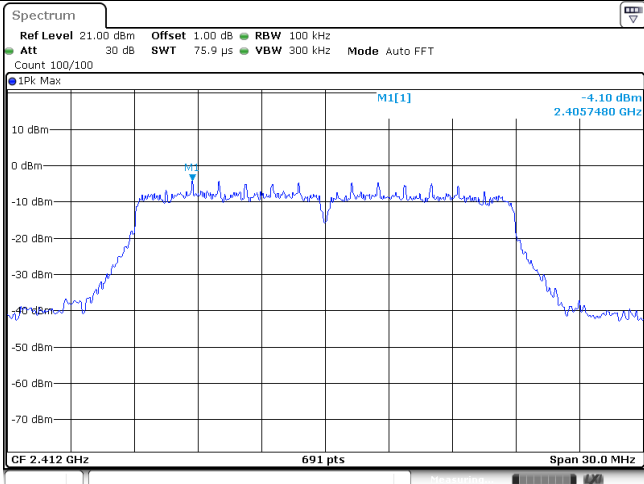
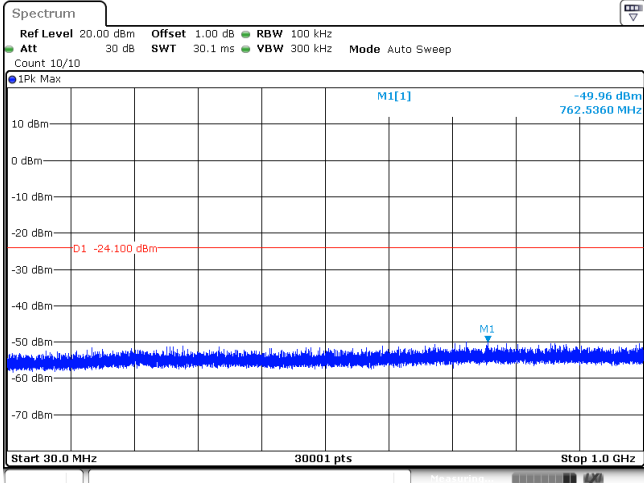
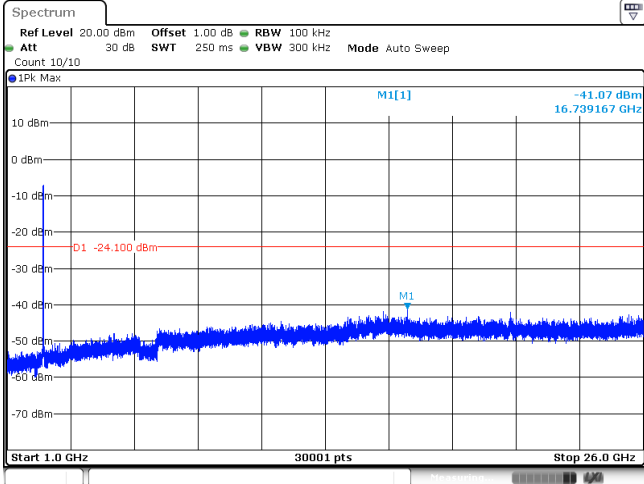


CH11
30MHz~1000MHz

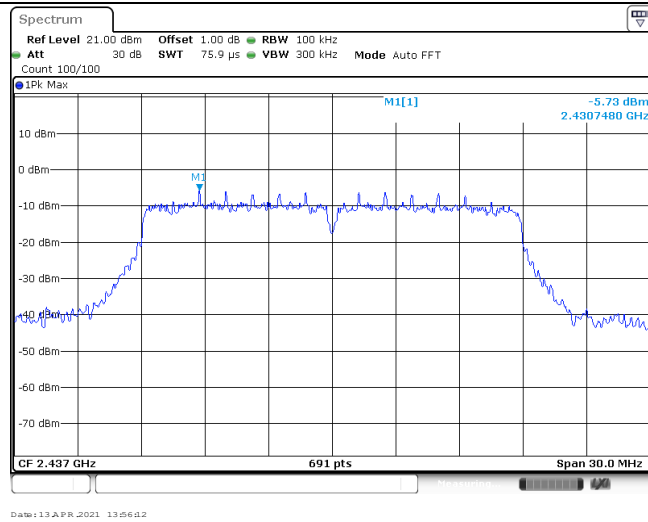


CH11
1GHz~26GHz

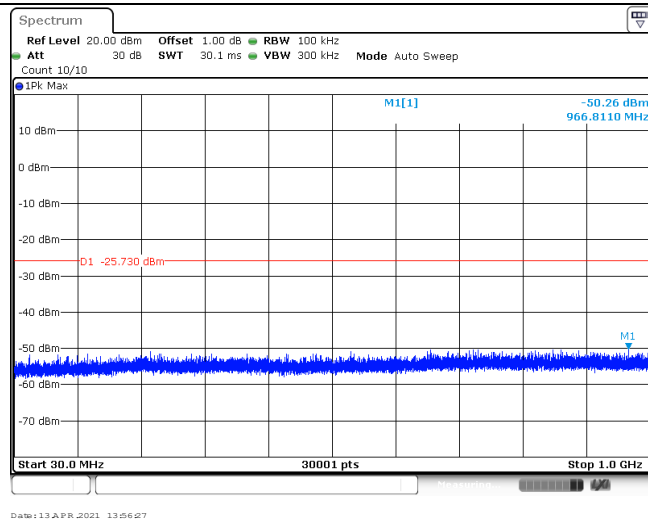


Test Item:	SE	Type:	802.11 n(HT20)
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

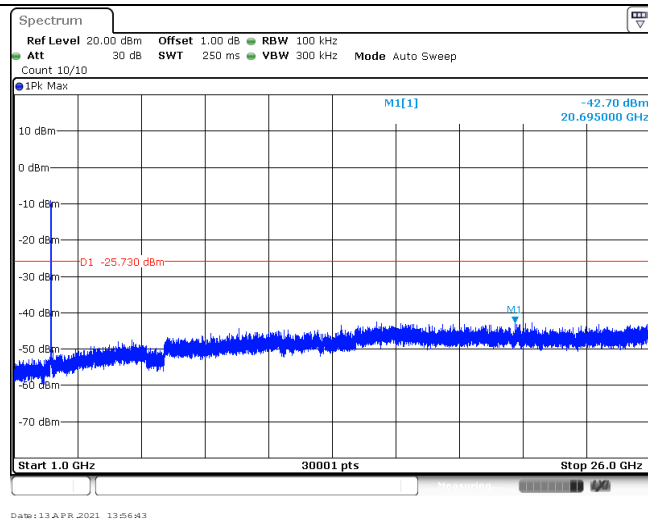
CH06
Reference level



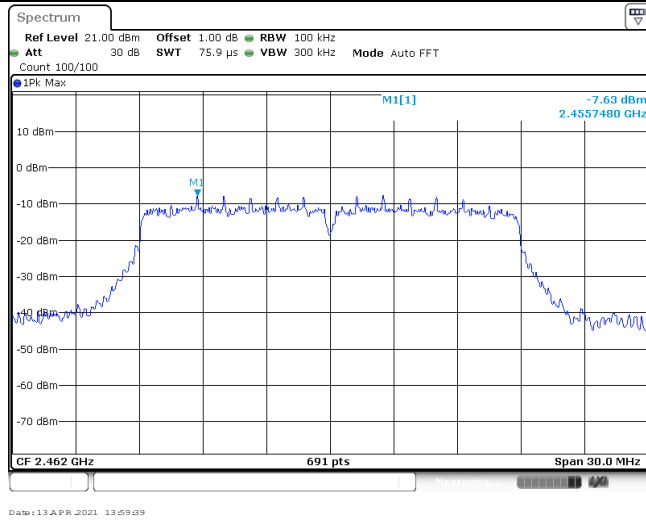
CH06
30MHz~1000MHz



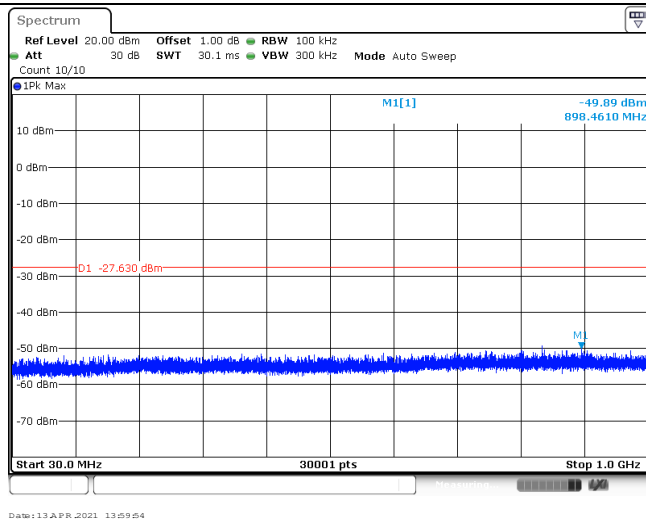
CH06
1GHz~26GHz



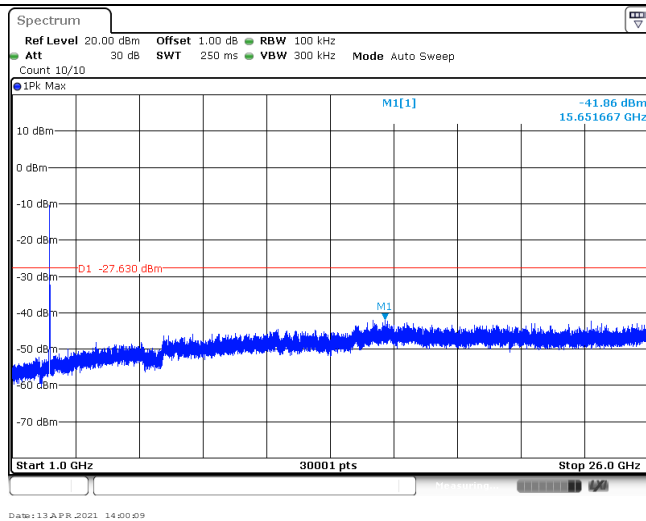
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



-----End of Report-----