

APPENDIX REPORT

Project No.	SHT2105069803EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21050698006	Model No.	DCIO
Start test date	2021-06-04	Finish date	2021-06-04
Temperature	26.1°C	Humidity	28%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhe

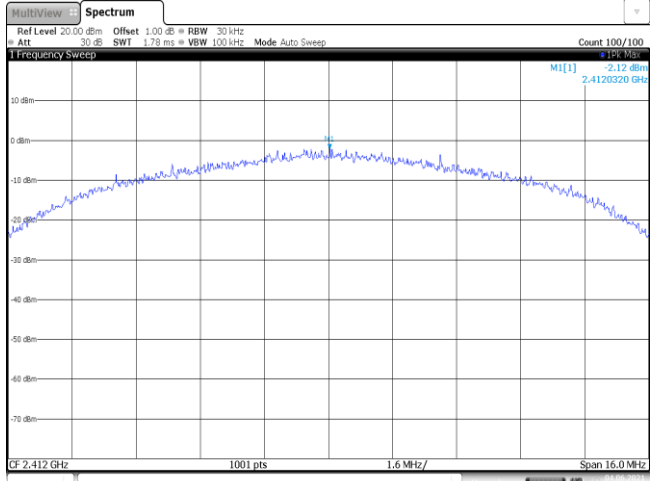
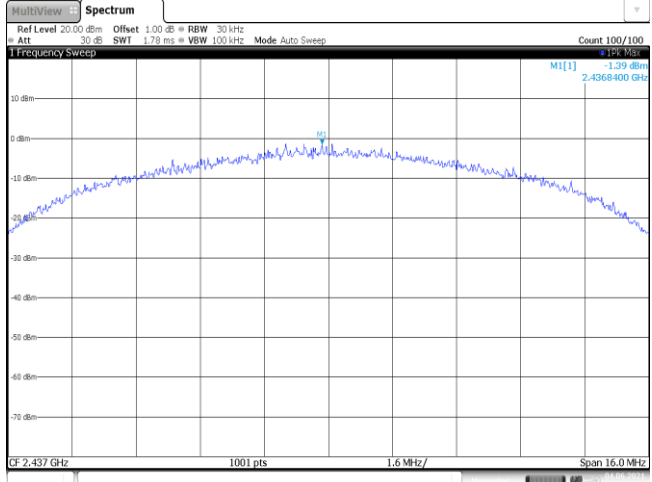
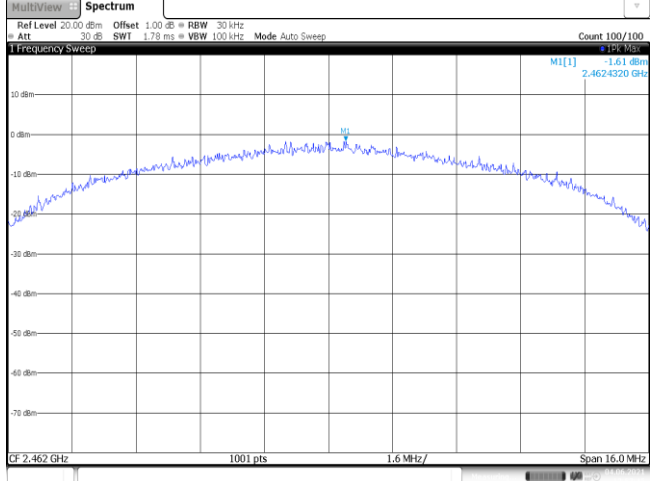
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.77	15.14	≤ 30.00	Pass
	06	17.22	15.69		
	11	17.19	15.55		
802.11g	01	15.98	13.31	≤ 30.00	Pass
	06	16.24	13.79		
	11	15.96	13.29		
802.11n (HT20)	01	15.13	12.96	≤ 30.00	Pass
	06	15.65	13.27		
	11	15.31	13.07		

Appendix B: Power Spectral Density

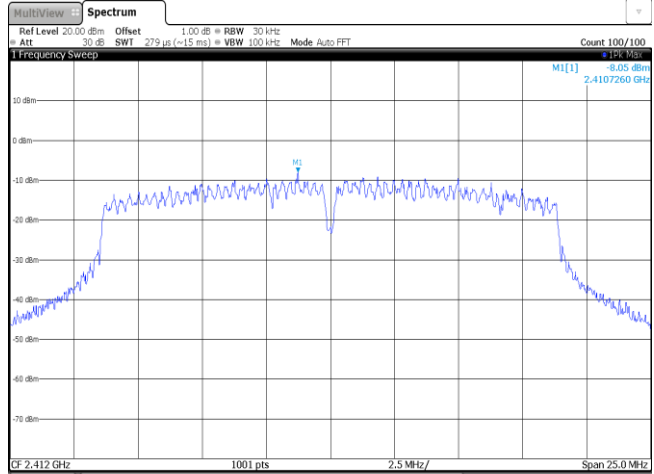
Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-2.12	≤8.00	Pass
	06	-1.39		
	11	-1.61		
802.11g	01	-8.75	≤8.00	Pass
	06	-8.82		
	11	-8.20		
802.11n(HT20)	01	-8.05	≤8.00	Pass
	06	-7.71		
	11	-7.86		

Type:		802.11 b
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] -2.12 dBm 2.4120320 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 4 JUN 2021 13:52:32</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] -1.39 dBm 2.4368400 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 4 JUN 2021 13:55:06</p>	
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] -1.61 dBm 2.4624320 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 4 JUN 2021 13:57:44</p>	

Type:	802.11 g
CH01	<p> MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -8.75 dBm 2.4125990 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 4 JUN 2021 14:01:02 </p>
CH06	<p> MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -8.82 dBm 2.4394730 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 4 JUN 2021 14:03:57 </p>
CH11	<p> MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -8.20 dBm 2.4644730 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 4 JUN 2021 14:06:03 </p>

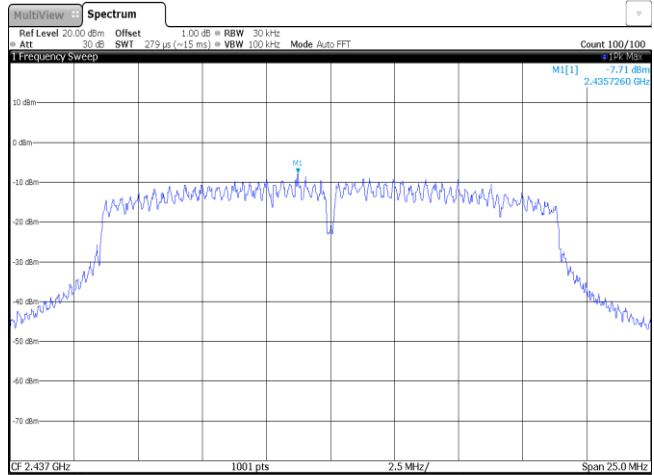
Type: 802.11n(HT20)

CH01



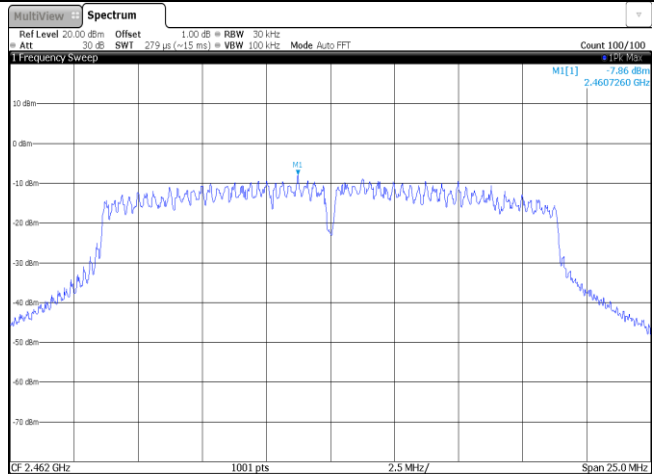
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CH06



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CH11

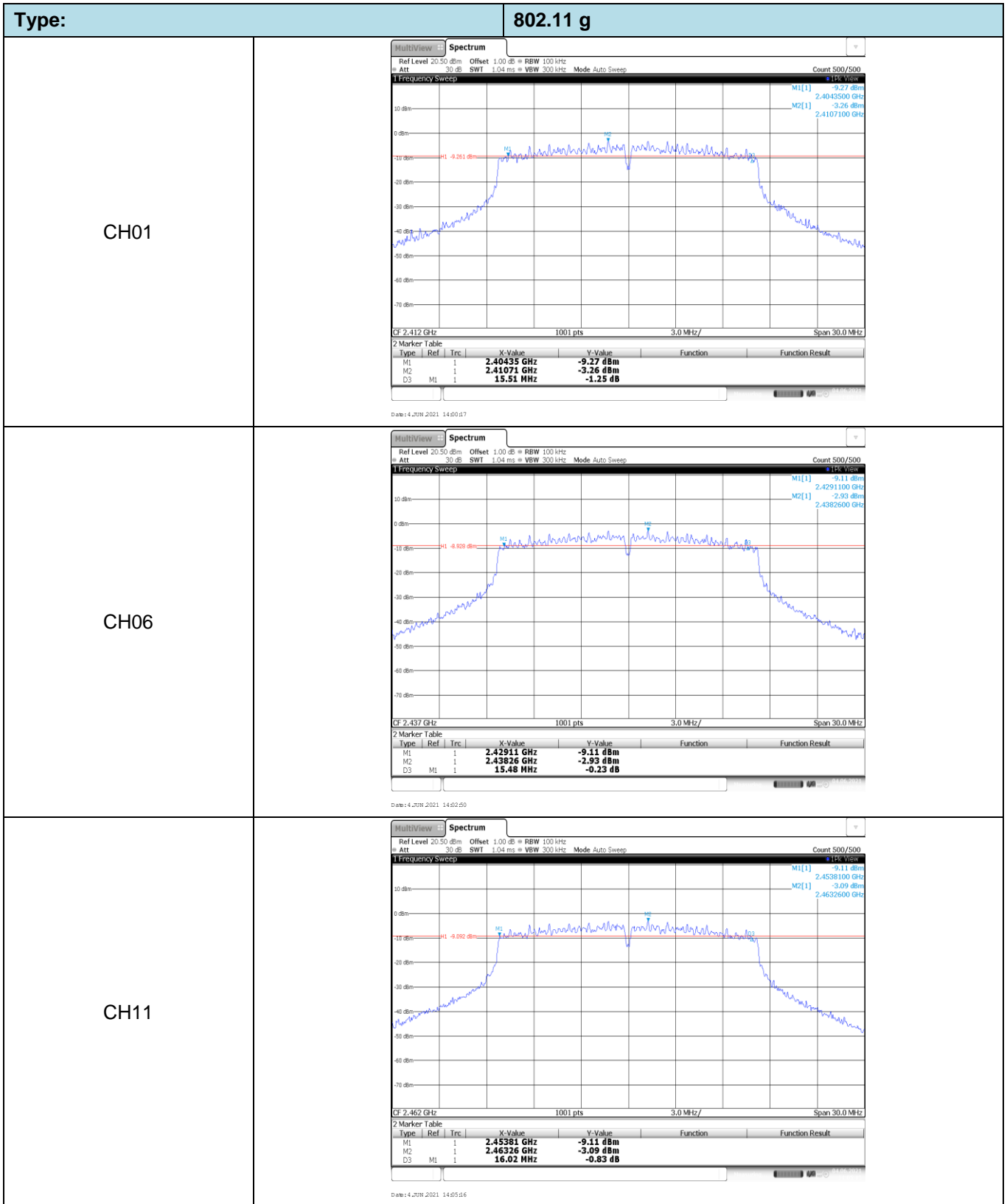


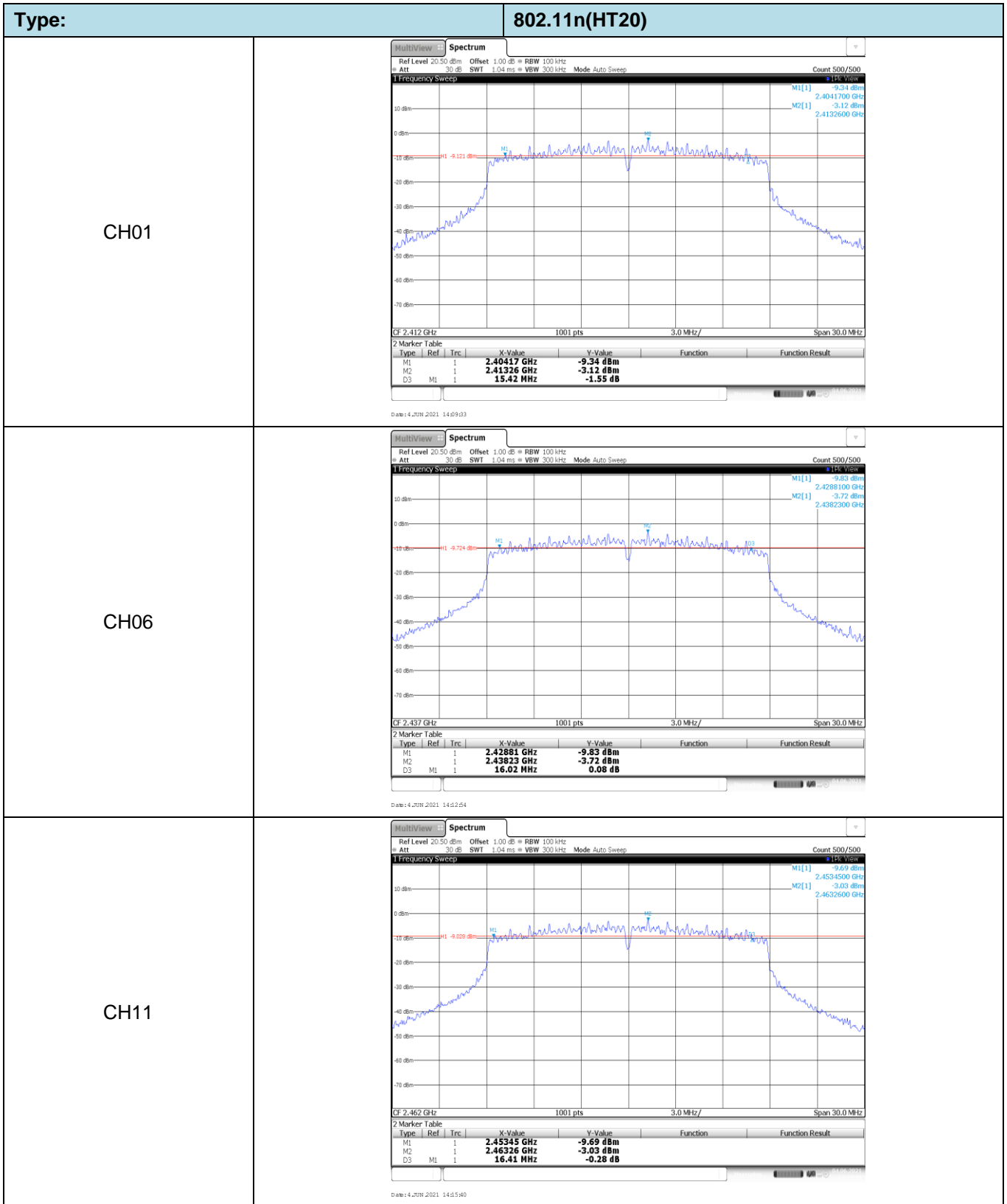
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Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.12	≥0.5	Pass
	06	9.66		
	11	9.72		
802.11g	01	15.51	≥0.5	Pass
	06	15.48		
	11	16.02		
802.11n(HT20)	01	15.42	≥0.5	Pass
	06	16.02		
	11	16.41		

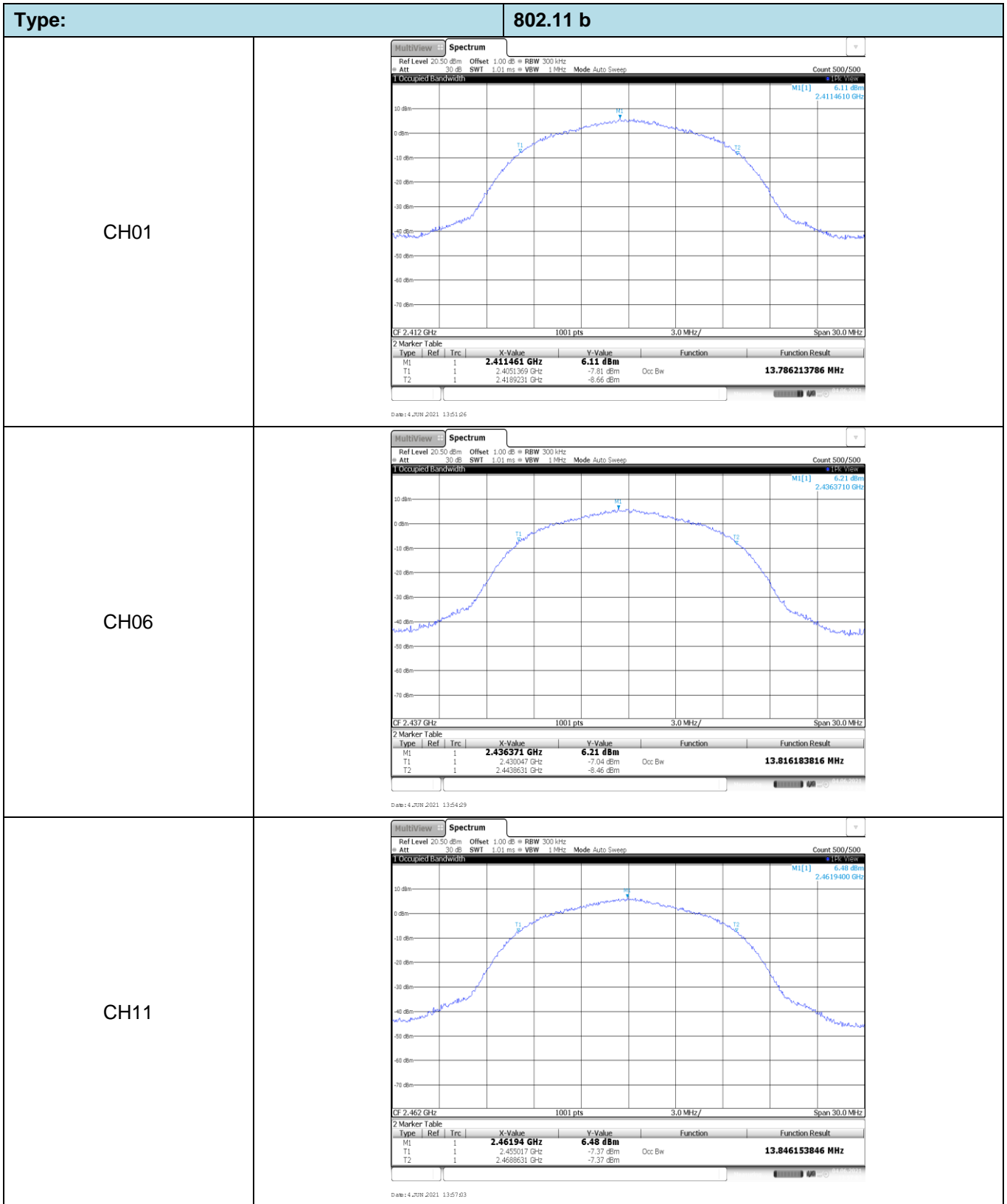
Type:	802.11 b																												
CH01	<p>Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.4072 GHz</td> <td>-5.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41146 GHz</td> <td>1.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>9.12 MHz</td> <td>0.57 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 13:51:08</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4072 GHz	-5.59 dBm			M2	1		2.41146 GHz	1.70 dBm			D3	M1	1	9.12 MHz	0.57 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.43229 GHz	-4.24 dBm																									
M2	1		2.43751 GHz	2.54 dBm																									
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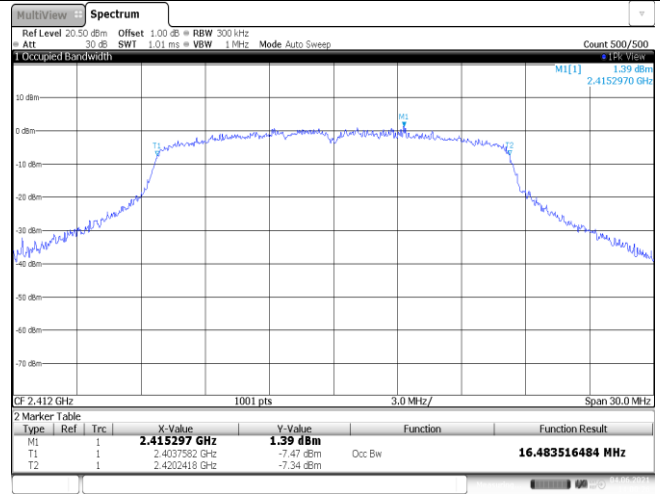
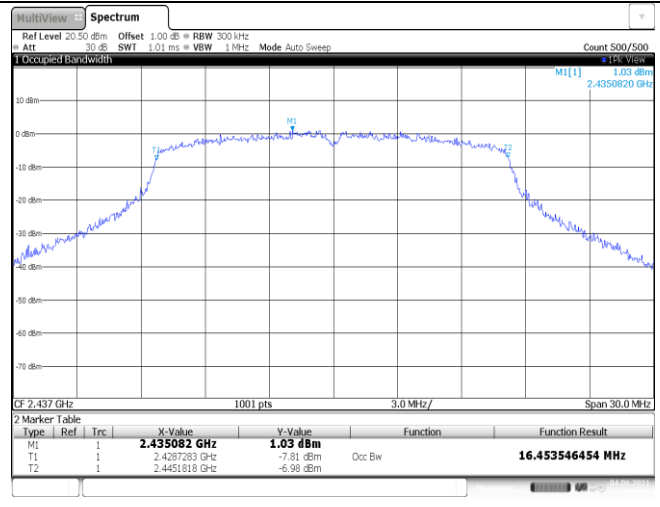
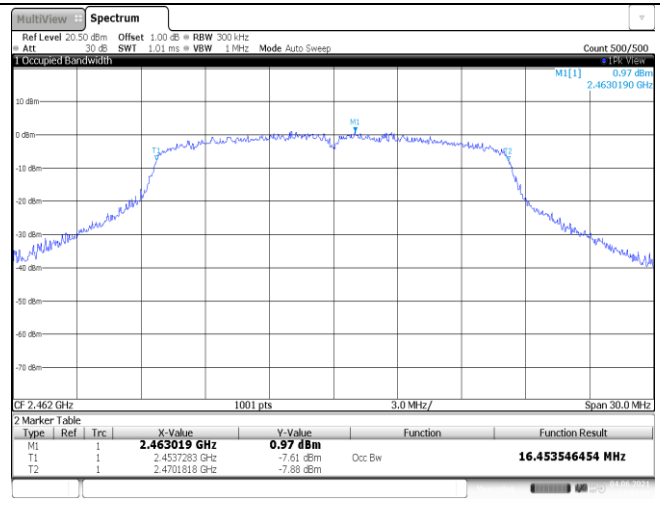




Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	13.79	-	Pass
	06	13.82		
	11	13.85		
802.11g	01	16.48	-	Pass
	06	16.45		
	11	16.45		
802.11n(HT20)	01	17.59	-	Pass
	06	17.56		
	11	17.56		

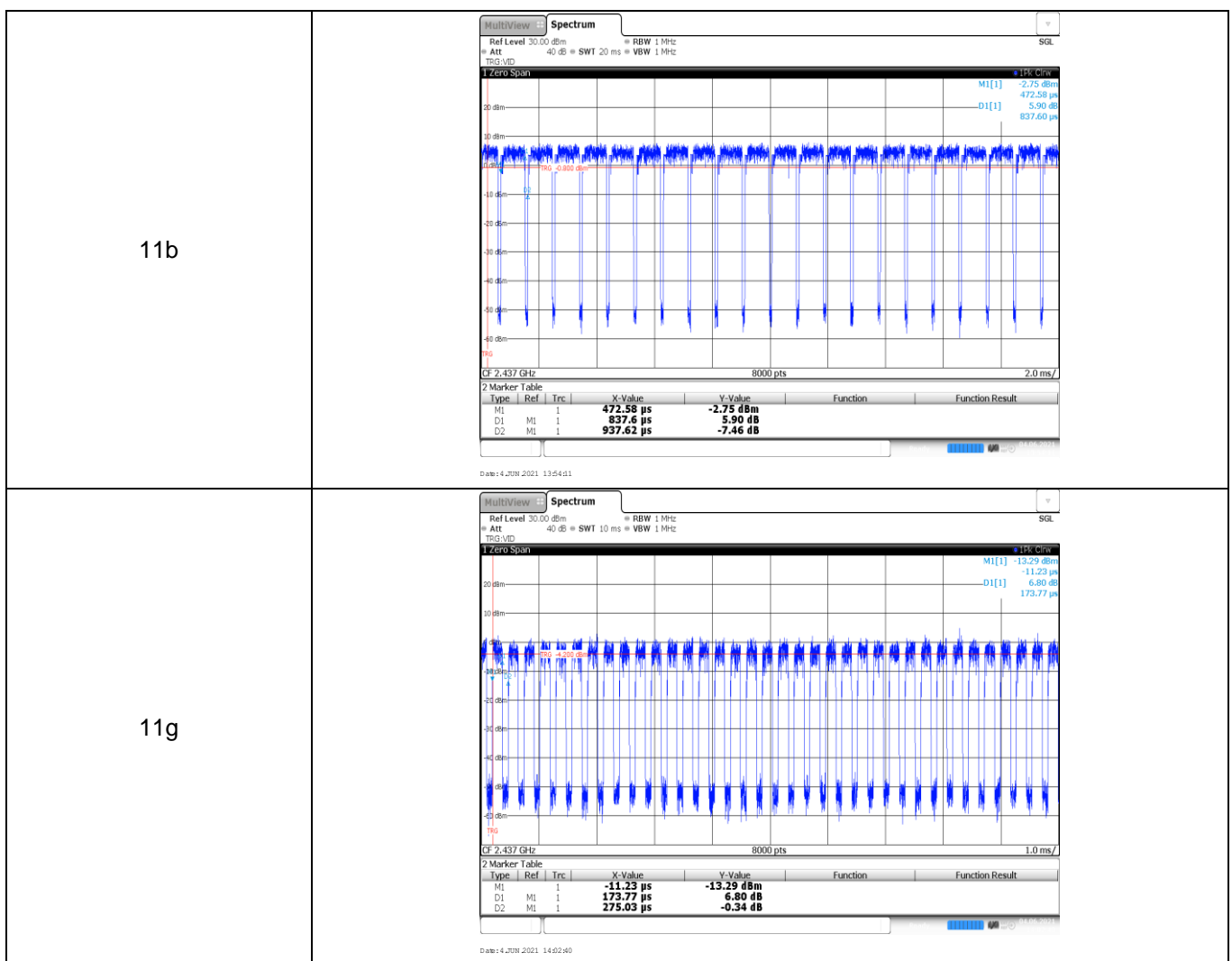


Type:	802.11 g																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth MI[1] 1.39 dBm 2.415297 GHz</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <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></td> <td>2.415297 GHz</td> <td>1.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4037282 GHz</td> <td>-7.47 dBm</td> <td>Occ Bw</td> <td>16.483516484 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4202418 GHz</td> <td>-7.34 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 14:00:26</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.415297 GHz	1.39 dBm			T1	1		2.4037282 GHz	-7.47 dBm	Occ Bw	16.483516484 MHz	T2	1		2.4202418 GHz	-7.34 dBm		
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M1	1		2.415297 GHz	1.39 dBm																									
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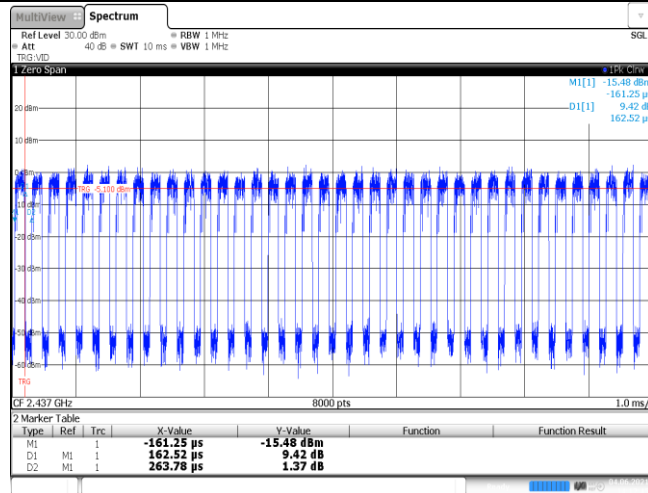
Type:	802.11n(HT20)																												
CH01	<p>MultiView Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth</p> <p>M1 [1] 0.52 dBm 2.411461 GHz</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 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>1</td> <td></td> <td>2.411461 GHz</td> <td>-0.52 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4031888 GHz</td> <td>-8.32 dBm</td> <td>Occ Bw</td> <td>17.592407592 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4207812 GHz</td> <td>-9.11 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 14:09:42</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.411461 GHz	-0.52 dBm			T1	1		2.4031888 GHz	-8.32 dBm	Occ Bw	17.592407592 MHz	T2	1		2.4207812 GHz	-9.11 dBm		
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T1	1		2.4531888 GHz	-6.89 dBm	Occ Bw	17.562437562 MHz																							
T2	1		2.4707812 GHz	-7.37 dBm																									

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	0.84	0.94	89.4%	1.2
11g	2437	0.17	0.28	60.7%	5.9
11n20	2437	0.16	0.26	61.5%	6.3

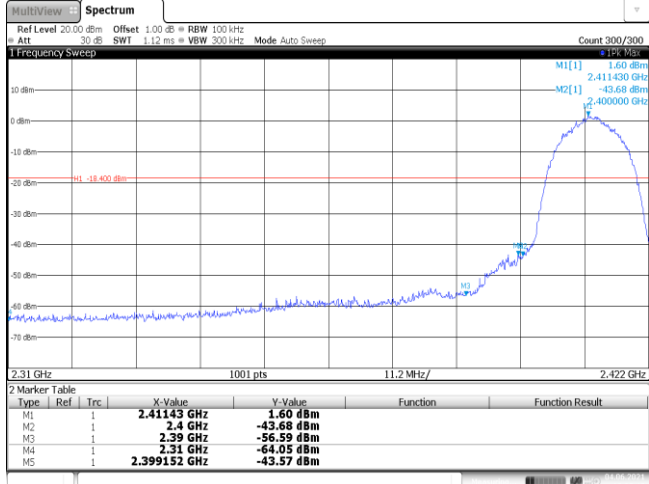
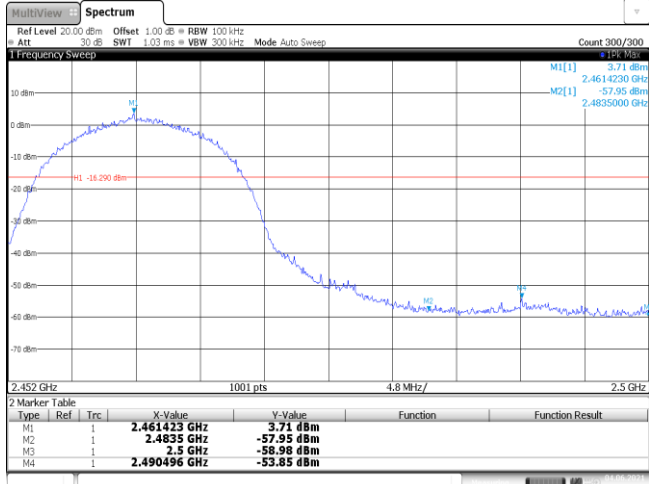


11n20

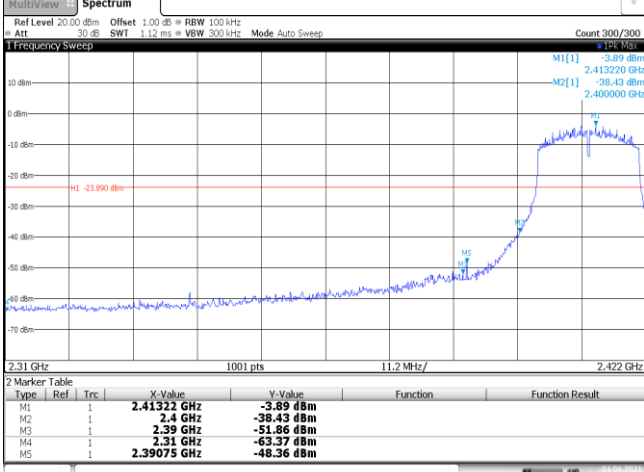
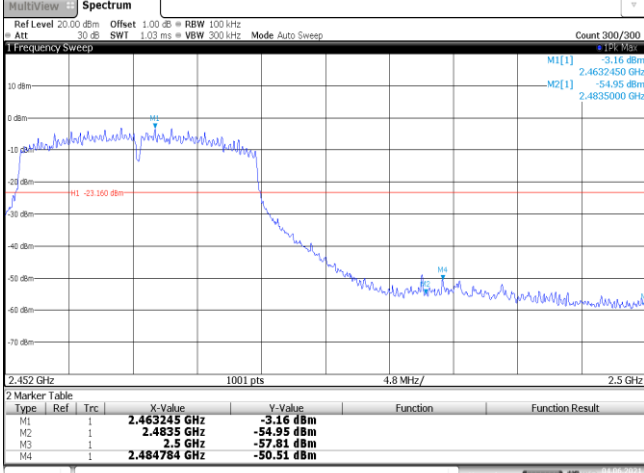


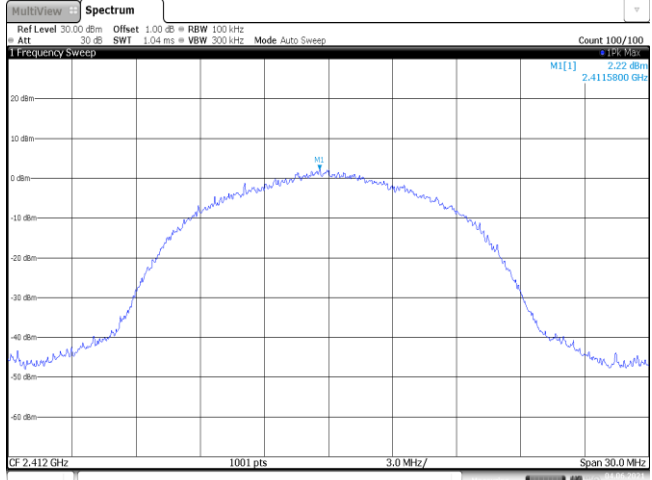
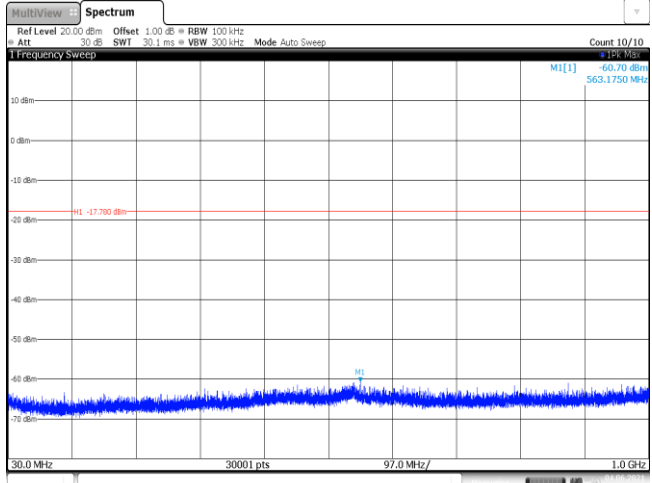
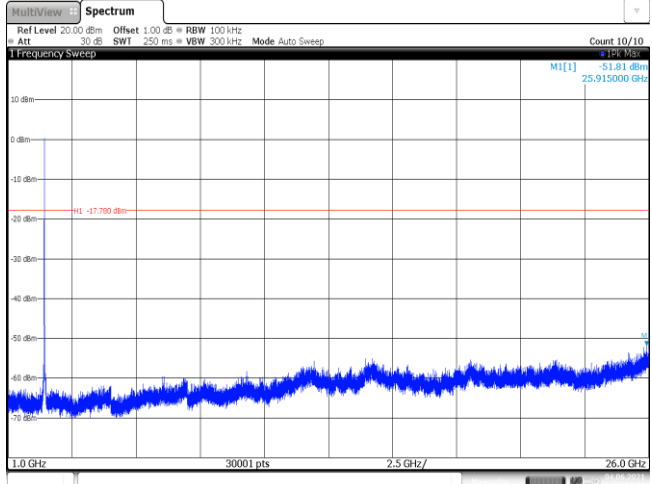
Date: 4/20/2021 14:02:44

Appendix F: Band edge and Spurious Emissions (conducted)

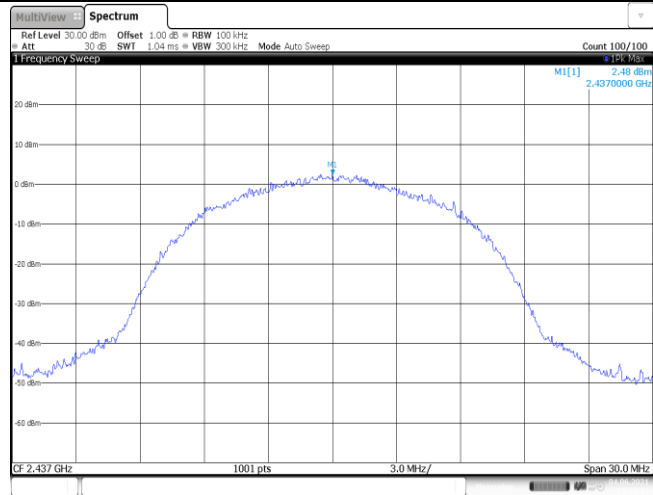
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41143 GHz</td> <td>1.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-43.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-56.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399152 GHz</td> <td>-43.57 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 13:52:42</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41143 GHz	1.60 dBm			M2	1		2.4 GHz	-43.66 dBm			M3	1		2.39 GHz	-56.59 dBm			M4	1		2.31 GHz	-64.05 dBm			M5	1		2.399152 GHz	-43.57 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41143 GHz	1.60 dBm																																									
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M3	1		2.39 GHz	-56.59 dBm																																									
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M3	1		2.5 GHz	-58.98 dBm																																									
M4	1		2.490496 GHz	-53.85 dBm																																									

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 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>2.41322 GHz</td> <td>-3.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-37.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-38.18 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 14:01:22</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41322 GHz	-3.24 dBm			M2	1		2.4 GHz	-37.76 dBm			M3	1		2.39 GHz	-52.44 dBm			M4	1		2.31 GHz	-62.87 dBm			M5	1		2.399824 GHz	-38.18 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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CH11	<p>Spectrum</p> <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.452 GHz 1001 pts 4.8 MHz/ 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>2.463245 GHz</td> <td>-2.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-52.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-58.62 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.486608 GHz</td> <td>-48.04 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 4 JUN 2021 14:06:43</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463245 GHz	-2.93 dBm			M2	1		2.4835 GHz	-52.27 dBm			M3	1		2.5 GHz	-58.62 dBm			M4	1		2.486608 GHz	-48.04 dBm									
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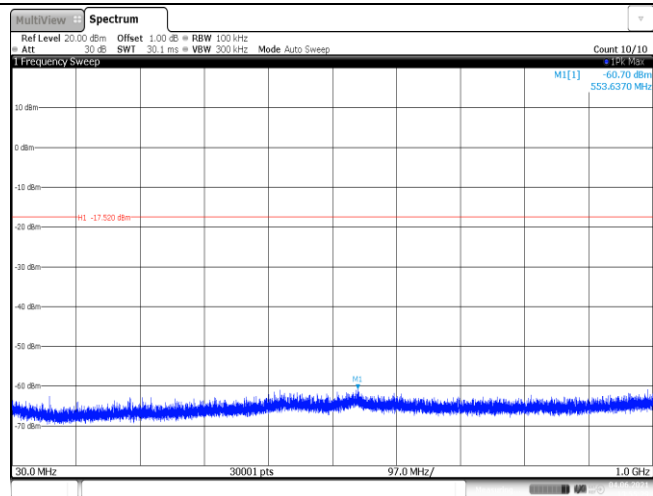
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01		 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.41322 GHz</td> <td>-3.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-38.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-51.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39075 GHz</td> <td>-48.36 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41322 GHz	-3.89 dBm			M2	1		2.4 GHz	-38.43 dBm			M3	1		2.39 GHz	-51.86 dBm			M4	1		2.31 GHz	-63.37 dBm			M5	1		2.39075 GHz	-48.36 dBm			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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CH11		 <p>2 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></td> <td>2.463245 GHz</td> <td>-3.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-54.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-57.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484764 GHz</td> <td>-50.51 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463245 GHz	-3.16 dBm			M2	1		2.4835 GHz	-54.95 dBm			M3	1		2.5 GHz	-57.81 dBm			M4	1		2.484764 GHz	-50.51 dBm										
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M3	1		2.5 GHz	-57.81 dBm																																									
M4	1		2.484764 GHz	-50.51 dBm																																									

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

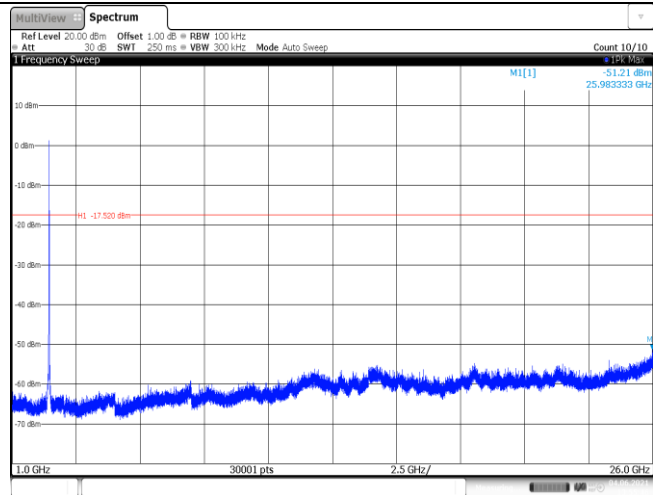
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Reference level



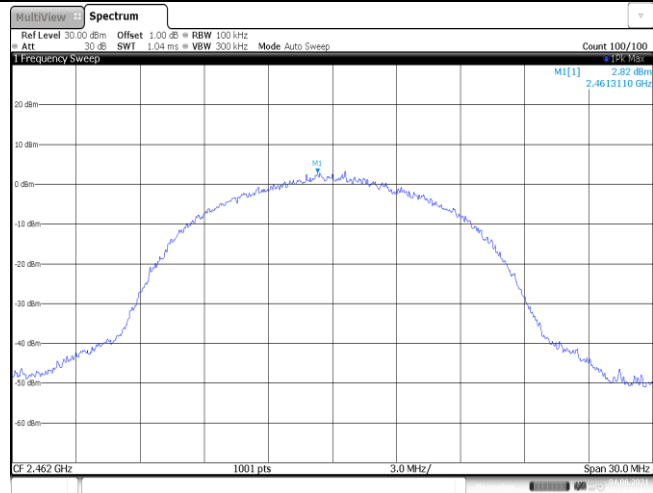
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30MHz~1000MHz



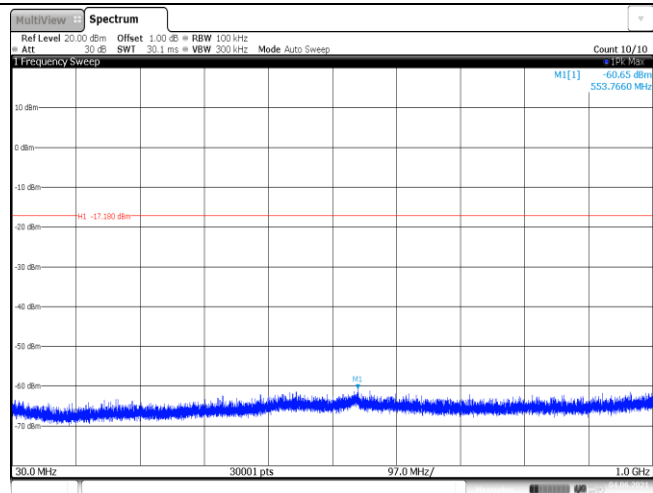
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1GHz~26GHz



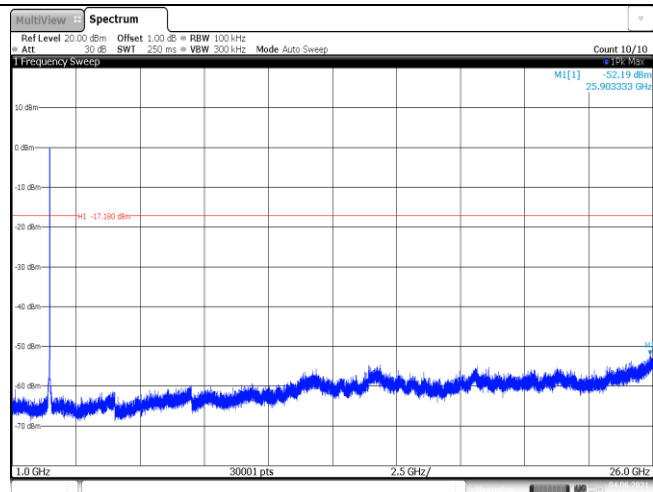
CH11
Reference level



CH11
30MHz~1000MHz

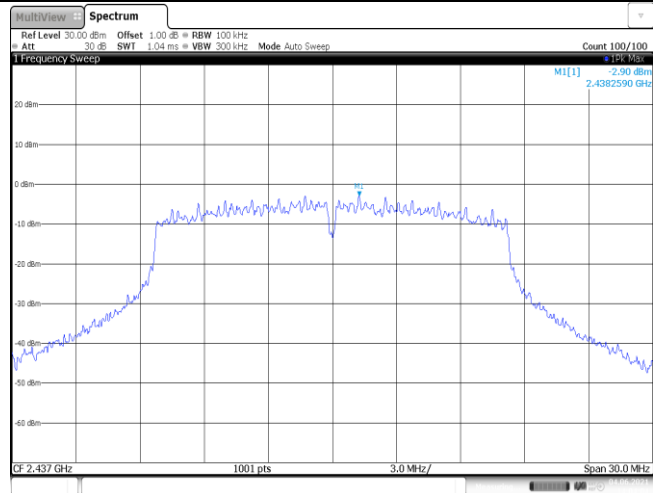


CH11
1GHz~26GHz



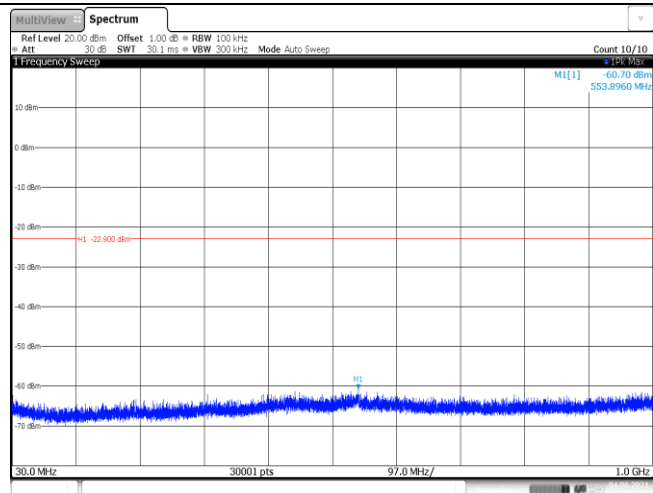
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CH06
Reference level



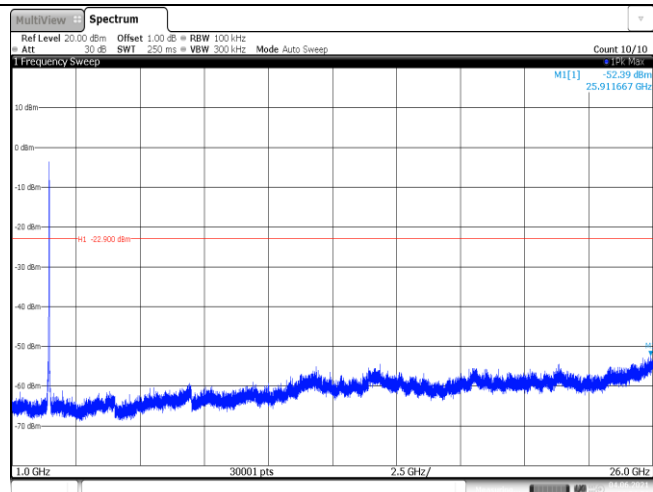
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CH06
30MHz~1000MHz



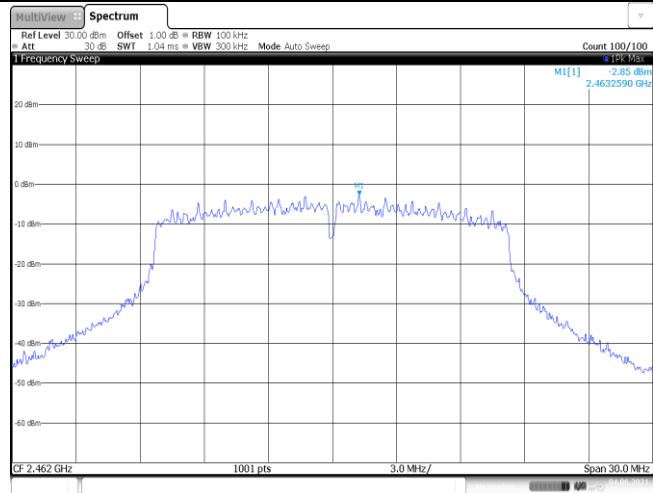
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CH06
1GHz~26GHz

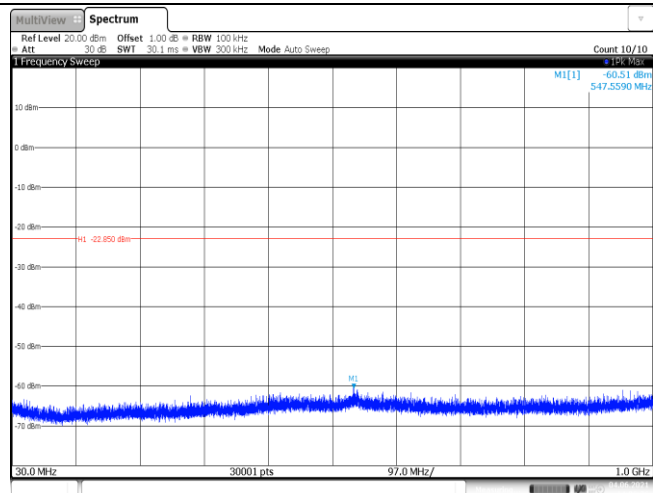


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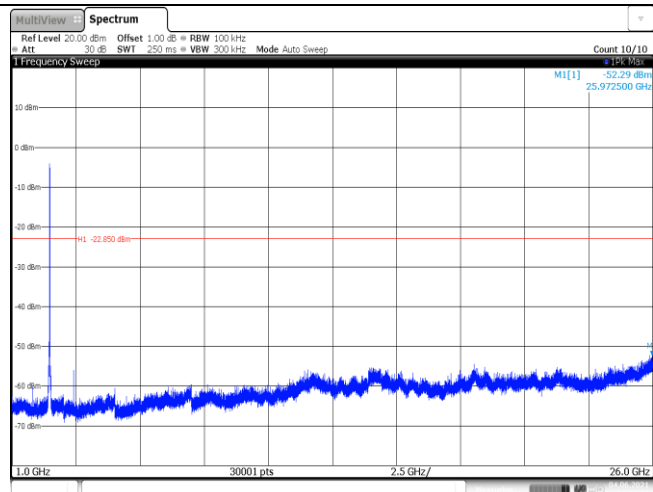
CH11
Reference level



CH11
30MHz~1000MHz

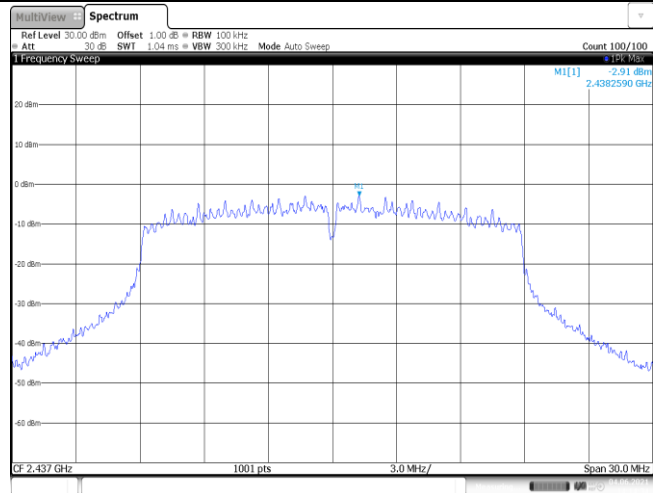


CH11
1GHz~26GHz



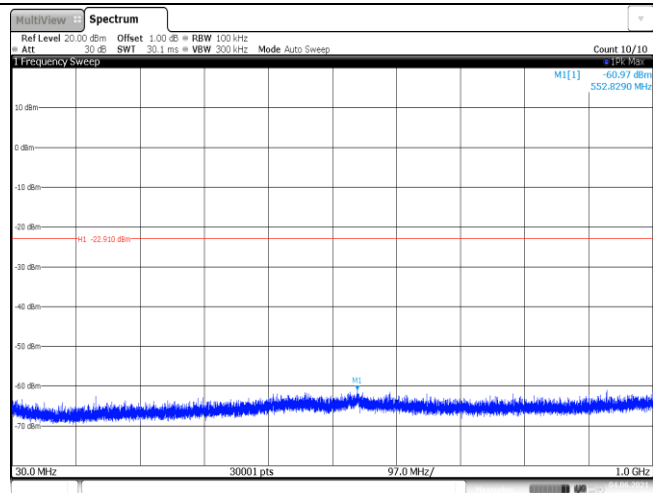
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<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

CH06
Reference level



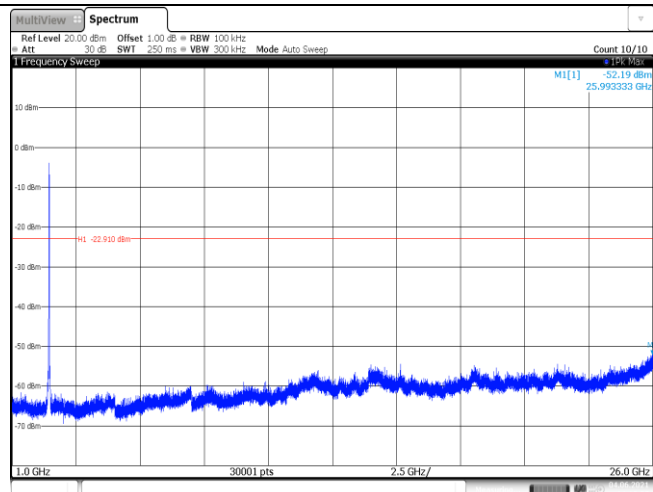
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CH06
30MHz~1000MHz



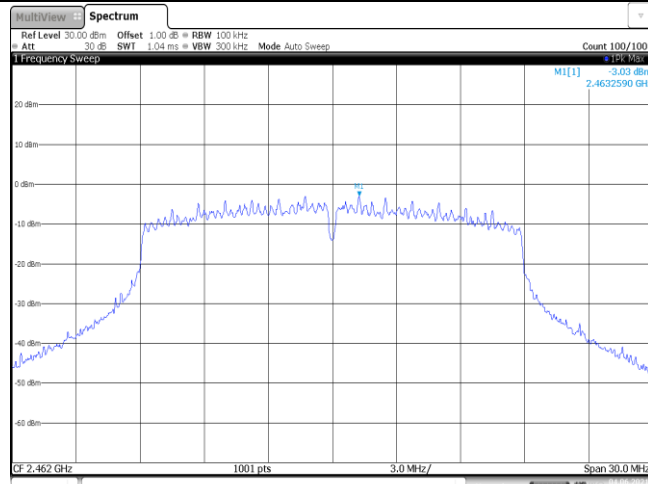
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CH06
1GHz~26GHz

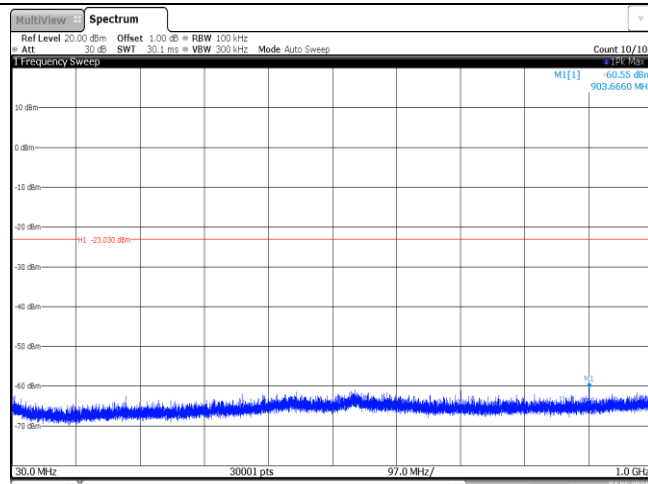


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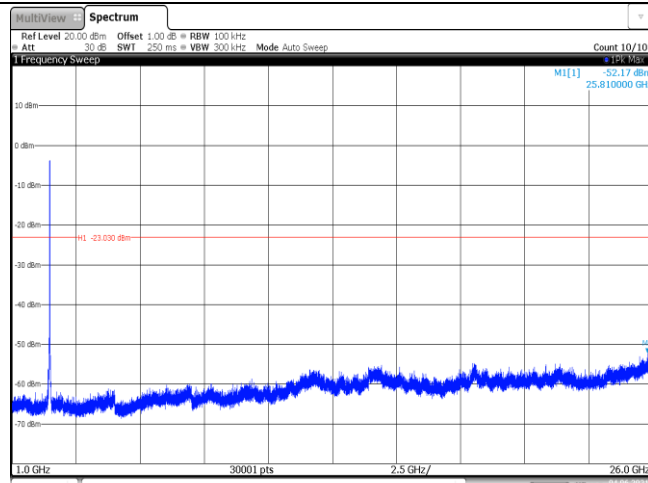
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



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