

# APPENDIX REPORT

Project No.	SHT2011036601EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT 20110366003	Model No.	HEV-10W
Start test date	2020-11-19	Finish date	2020-11-19
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

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**

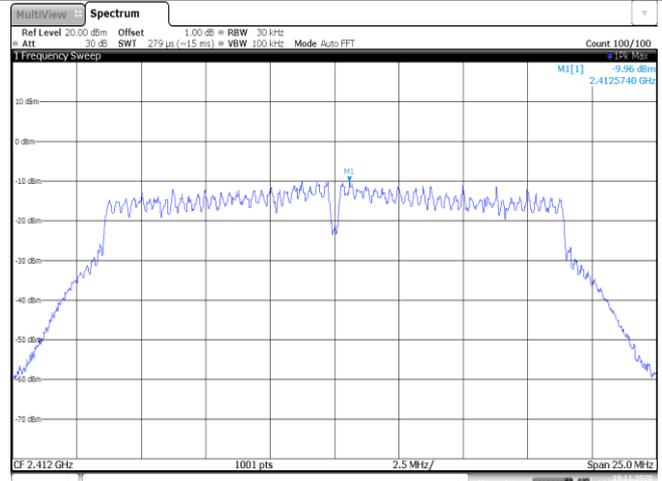
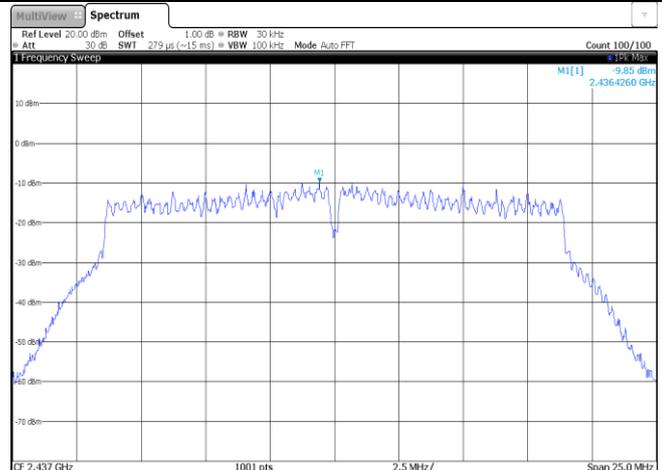
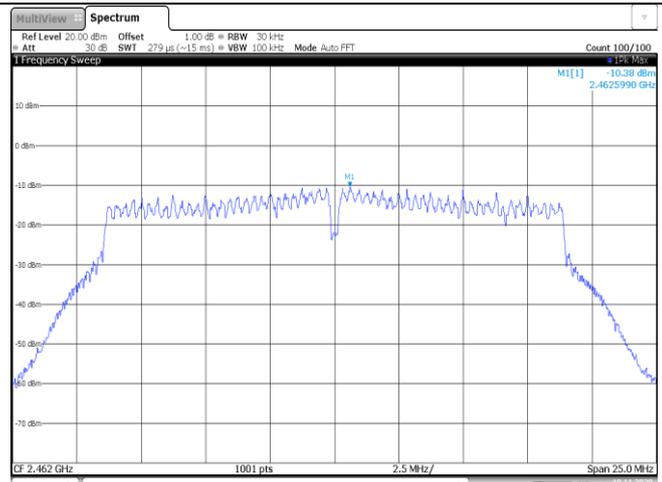
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.36	11.92	≤ 30.00	Pass
	06	14.49	12.03		
	11	14.80	12.37		
802.11g	01	12.99	10.79	≤ 30.00	Pass
	06	12.69	10.49		
	11	12.76	10.56		
802.11n (HT20)	01	14.38	12.03	≤ 30.00	Pass
	06	14.35	11.77		
	11	14.44	12.33		

**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-0.04	≤8.00	Pass
	06	1.38		
	11	0.64		
802.11g	01	-11.08	≤8.00	Pass
	06	-11.87		
	11	-11.12		
802.11n(HT20)	01	-9.96	≤8.00	Pass
	06	-9.85		
	11	-10.38		

Type:	802.11 b
CH01	<p> <b>Spectrum</b>                      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] 0.04 dBm                      2.4114890 GHz                      CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz                      Date: 19/NOV/2020 15:13:59                 </p>
CH06	<p> <b>Spectrum</b>                      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] 1.38 dBm                      2.4384870 GHz                      CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz                      Date: 19/NOV/2020 15:21:51                 </p>
CH11	<p> <b>Spectrum</b>                      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] 0.64 dBm                      2.4624960 GHz                      CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz                      Date: 19/NOV/2020 15:34:03                 </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 (-15 ms) VBW 100 kHz Mode Auto FFT            Count 100/100            1 Frequency Sweep            MI(1) -11.08 dBm            2.4107510 GHz            CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 30 NOV 2020 13:41:33</p>
CH06	<p>MultiView Spectrum            Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz            Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT            Count 100/100            1 Frequency Sweep            MI(1) -11.87 dBm            2.4363510 GHz            CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 30 NOV 2020 13:44:53</p>
CH11	<p>MultiView Spectrum            Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz            Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT            Count 100/100            1 Frequency Sweep            MI(1) -11.12 dBm            2.4607510 GHz            CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 30 NOV 2020 13:45:38</p>

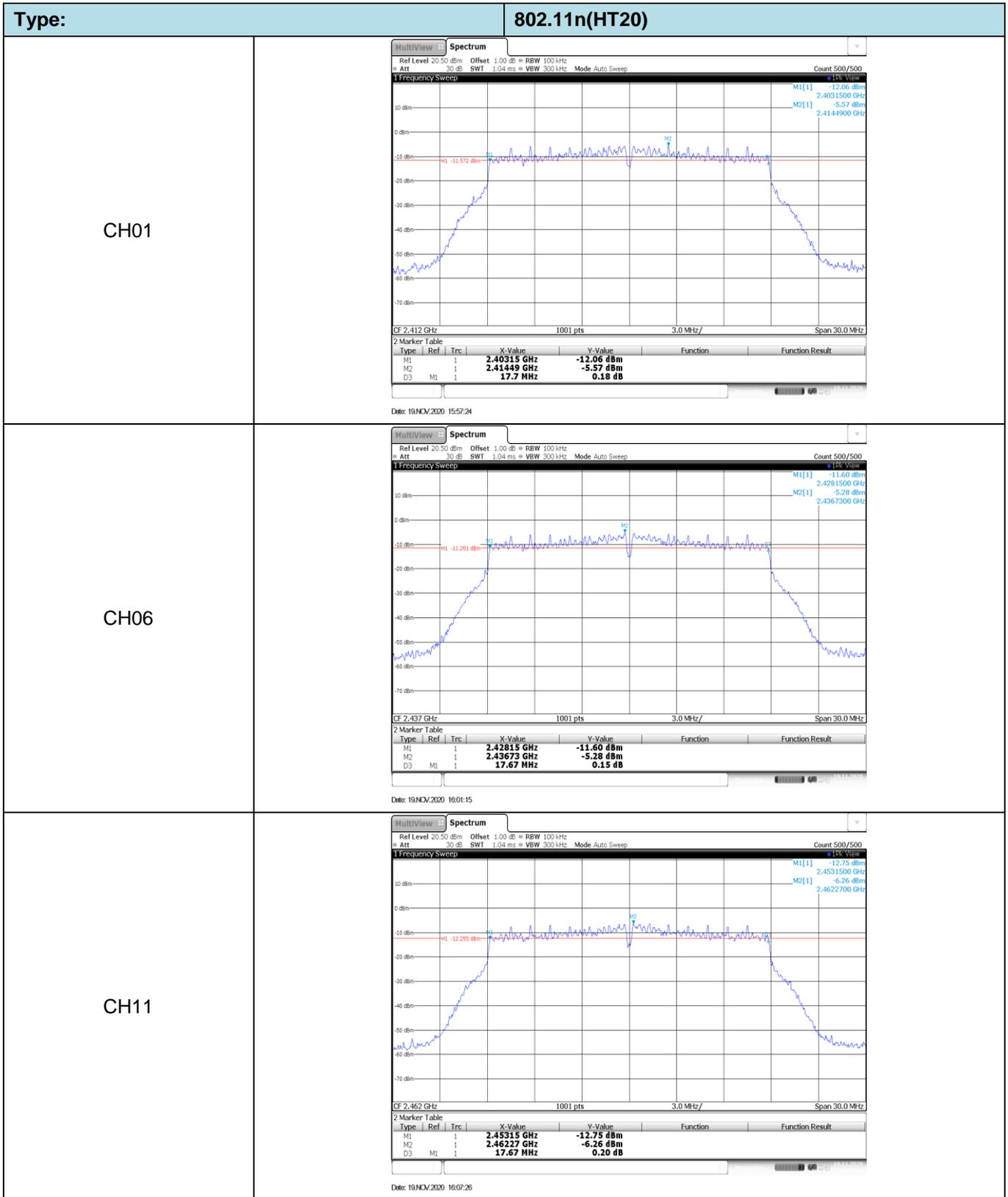
Type:	802.11n(HT20)
CH01	 <p> <b>Spectrum</b>            Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz            Att 30 dB SWI 279 us (~1.5 ms) VBW 100 kHz Mode Auto FFT            Count 100/100            MI[1] 9.96 dBm            2.4125740 GHz            CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 19/NOV/2020 15:59:33         </p>
CH06	 <p> <b>Spectrum</b>            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            MI[1] 9.85 dBm            2.4364260 GHz            CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 19/NOV/2020 16:08:13         </p>
CH11	 <p> <b>Spectrum</b>            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            MI[1] -10.38 dBm            2.4625990 GHz            CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz            Date: 19/NOV/2020 16:11:42         </p>

**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.61	≥0.5	Pass
	06	8.61		
	11	8.61		
802.11g	01	16.38	≥0.5	Pass
	06	16.38		
	11	16.38		
802.11n(HT20)	01	17.70	≥0.5	Pass
	06	17.67		
	11	17.67		

Type:	802.11 b																												
CH01	<p><b>Marker Table</b></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>2.40792 GHz</td> <td>-3.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4135 GHz</td> <td>3.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.61 MHz</td> <td>-0.01 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:13:08</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40792 GHz	-3.80 dBm			M2	1		2.4135 GHz	3.00 dBm			D3	M1	1	8.61 MHz	-0.01 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.40792 GHz	-3.80 dBm																									
M2	1		2.4135 GHz	3.00 dBm																									
D3	M1	1	8.61 MHz	-0.01 dB																									
CH06	<p><b>Marker Table</b></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>2.43292 GHz</td> <td>-3.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.43598 GHz</td> <td>3.37 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.61 MHz</td> <td>0.19 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:18:34</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.43292 GHz	-3.43 dBm			M2	1		2.43598 GHz	3.37 dBm			D3	M1	1	8.61 MHz	0.19 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.43292 GHz	-3.43 dBm																									
M2	1		2.43598 GHz	3.37 dBm																									
D3	M1	1	8.61 MHz	0.19 dB																									
CH11	<p><b>Marker Table</b></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>2.45792 GHz</td> <td>-3.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.46299 GHz</td> <td>3.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.61 MHz</td> <td>0.11 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:24:26</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.45792 GHz	-3.17 dBm			M2	1		2.46299 GHz	3.72 dBm			D3	M1	1	8.61 MHz	0.11 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.45792 GHz	-3.17 dBm																									
M2	1		2.46299 GHz	3.72 dBm																									
D3	M1	1	8.61 MHz	0.11 dB																									

Type:	802.11 g																												
CH01	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</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>2.40381 GHz</td> <td>-13.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.40696 GHz</td> <td>-6.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>-0.87 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:41:08</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40381 GHz	-13.24 dBm			M2	1		2.40696 GHz	-6.55 dBm			D3	M1	1	16.38 MHz	-0.87 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.40381 GHz	-13.24 dBm																									
M2	1		2.40696 GHz	-6.55 dBm																									
D3	M1	1	16.38 MHz	-0.87 dB																									
CH06	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</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>2.42881 GHz</td> <td>-13.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.43949 GHz</td> <td>-6.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>-0.91 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:43:41</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.42881 GHz	-13.18 dBm			M2	1		2.43949 GHz	-6.57 dBm			D3	M1	1	16.38 MHz	-0.91 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.42881 GHz	-13.18 dBm																									
M2	1		2.43949 GHz	-6.57 dBm																									
D3	M1	1	16.38 MHz	-0.91 dB																									
CH11	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</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>2.45381 GHz</td> <td>-13.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.46449 GHz</td> <td>-6.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.38 MHz</td> <td>-0.98 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:45:07</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.45381 GHz	-13.24 dBm			M2	1		2.46449 GHz	-6.60 dBm			D3	M1	1	16.38 MHz	-0.98 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.45381 GHz	-13.24 dBm																									
M2	1		2.46449 GHz	-6.60 dBm																									
D3	M1	1	16.38 MHz	-0.98 dB																									

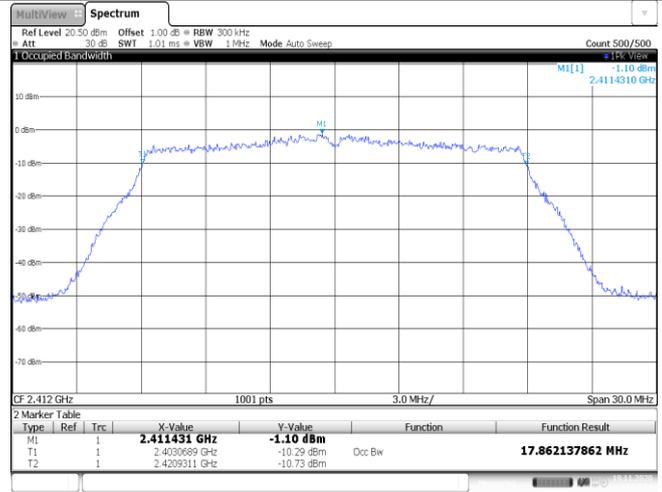
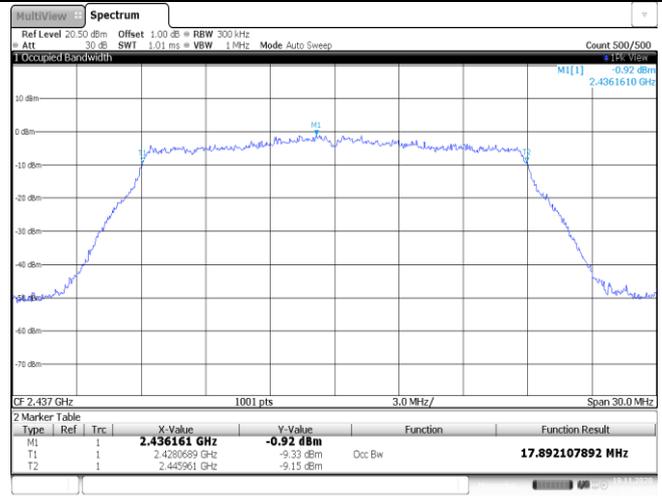
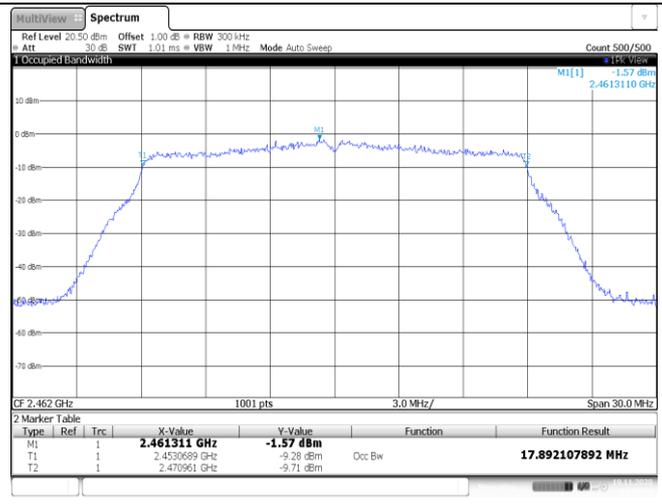


**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	11.81	-	Pass
	06	11.87		
	11	11.84		
802.11g	01	16.93	-	Pass
	06	16.96		
	11	16.96		
802.11n(HT20)	01	17.86	-	Pass
	06	17.89		
	11	17.89		

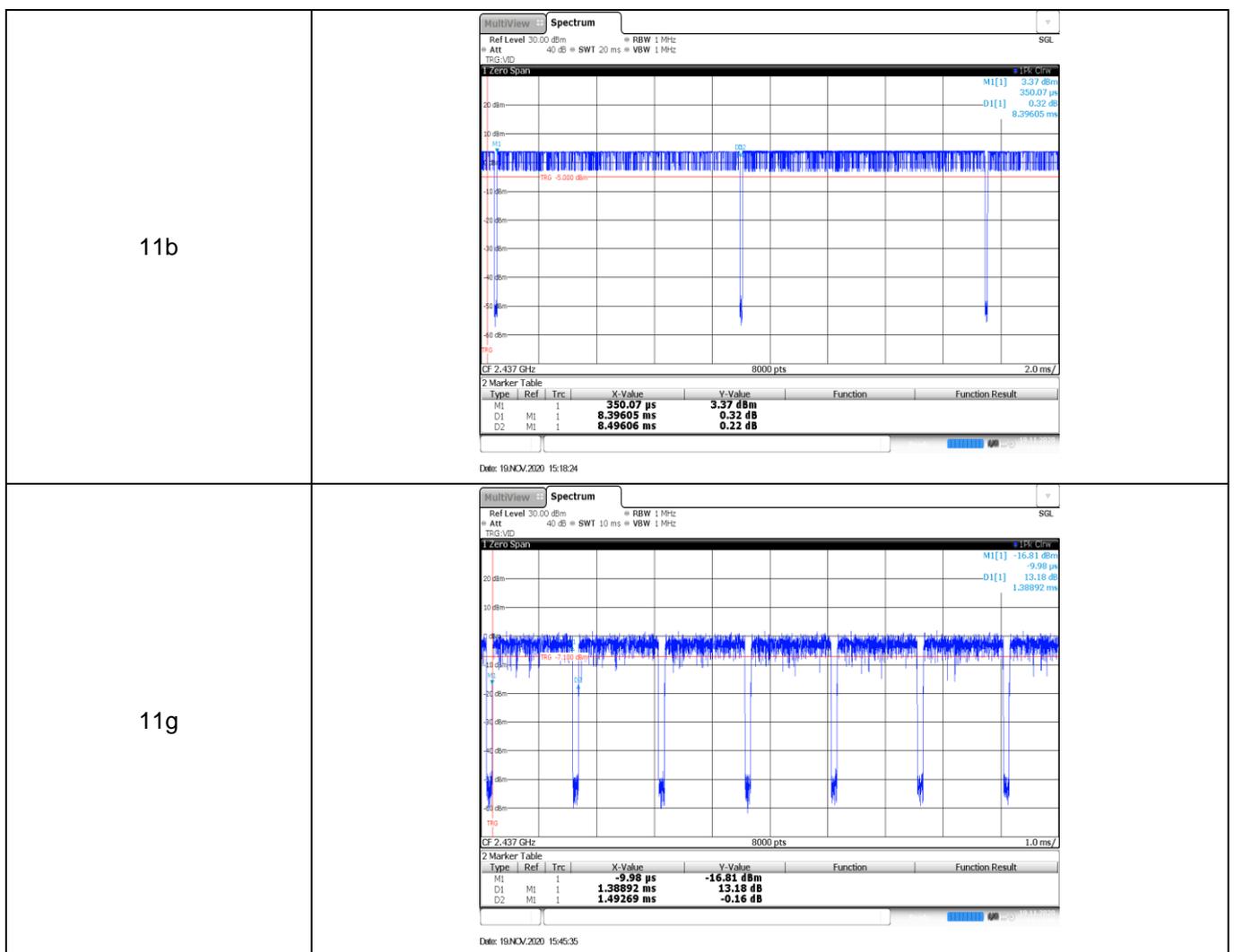
Type:	802.11 b																												
CH01	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>Occupied Bandwidth M1[1] 3.53 dBm 2.410981 GHz</p> <p>GF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <thead> <tr> <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>2.410981 GHz</td> <td>3.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.406959 GHz</td> <td>-10.66 dBm</td> <td>Occ Bw</td> <td>11.808191808 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.417904 GHz</td> <td>-10.29 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:13:17</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.410981 GHz	3.53 dBm			T1	1		2.406959 GHz	-10.66 dBm	Occ Bw	11.808191808 MHz	T2	1		2.417904 GHz	-10.29 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.410981 GHz	3.53 dBm																									
T1	1		2.406959 GHz	-10.66 dBm	Occ Bw	11.808191808 MHz																							
T2	1		2.417904 GHz	-10.29 dBm																									
CH06	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>Occupied Bandwidth M1[1] 3.57 dBm 2.435981 GHz</p> <p>GF 2.437 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>2.435981 GHz</td> <td>3.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4310659 GHz</td> <td>-9.95 dBm</td> <td>Occ Bw</td> <td>11.868131868 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4429341 GHz</td> <td>-9.73 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:18:42</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.435981 GHz	3.57 dBm			T1	1		2.4310659 GHz	-9.95 dBm	Occ Bw	11.868131868 MHz	T2	1		2.4429341 GHz	-9.73 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.435981 GHz	3.57 dBm																									
T1	1		2.4310659 GHz	-9.95 dBm	Occ Bw	11.868131868 MHz																							
T2	1		2.4429341 GHz	-9.73 dBm																									
CH11	<p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>Occupied Bandwidth M1[1] 3.80 dBm 2.461011 GHz</p> <p>GF 2.462 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>2.461011 GHz</td> <td>3.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4560959 GHz</td> <td>-10.38 dBm</td> <td>Occ Bw</td> <td>11.838161838 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4679341 GHz</td> <td>-9.43 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:24:34</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461011 GHz	3.80 dBm			T1	1		2.4560959 GHz	-10.38 dBm	Occ Bw	11.838161838 MHz	T2	1		2.4679341 GHz	-9.43 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.461011 GHz	3.80 dBm																									
T1	1		2.4560959 GHz	-10.38 dBm	Occ Bw	11.838161838 MHz																							
T2	1		2.4679341 GHz	-9.43 dBm																									

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 M1(1) 2.06 dBm 2.4114310 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>2.411431 GHz</td> <td>-2.06 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4034885 GHz</td> <td>-12.55 dBm</td> <td>Occ Bw</td> <td>16.933066933 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4204216 GHz</td> <td>-12.63 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:41:20</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.411431 GHz	-2.06 dBm			T1	1		2.4034885 GHz	-12.55 dBm	Occ Bw	16.933066933 MHz	T2	1		2.4204216 GHz	-12.63 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.411431 GHz	-2.06 dBm																									
T1	1		2.4034885 GHz	-12.55 dBm	Occ Bw	16.933066933 MHz																							
T2	1		2.4204216 GHz	-12.63 dBm																									
CH06	 <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 M1(1) 2.35 dBm 2.4364910 GHz</p> <p>CF 2.437 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>2.436491 GHz</td> <td>-2.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4284885 GHz</td> <td>-12.65 dBm</td> <td>Occ Bw</td> <td>16.963036963 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4454515 GHz</td> <td>-13.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:43:50</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.436491 GHz	-2.35 dBm			T1	1		2.4284885 GHz	-12.65 dBm	Occ Bw	16.963036963 MHz	T2	1		2.4454515 GHz	-13.05 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.436491 GHz	-2.35 dBm																									
T1	1		2.4284885 GHz	-12.65 dBm	Occ Bw	16.963036963 MHz																							
T2	1		2.4454515 GHz	-13.05 dBm																									
CH11	 <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 M1(1) 2.40 dBm 2.4624200 GHz</p> <p>CF 2.462 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>2.46242 GHz</td> <td>-2.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4534885 GHz</td> <td>-12.80 dBm</td> <td>Occ Bw</td> <td>16.963036963 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4704515 GHz</td> <td>-12.92 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:45:25</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.46242 GHz	-2.40 dBm			T1	1		2.4534885 GHz	-12.80 dBm	Occ Bw	16.963036963 MHz	T2	1		2.4704515 GHz	-12.92 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.46242 GHz	-2.40 dBm																									
T1	1		2.4534885 GHz	-12.80 dBm	Occ Bw	16.963036963 MHz																							
T2	1		2.4704515 GHz	-12.92 dBm																									

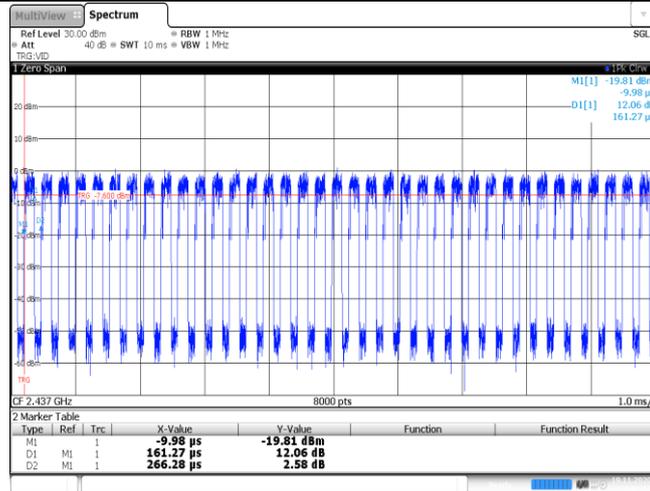
Type:	802.11n(HT20)																												
CH01	 <p><b>2 Marker Table</b></p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.411431 GHz</td> <td>-1.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4030689 GHz</td> <td>-10.29 dBm</td> <td>Occ Bw</td> <td>17.862137862 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4209311 GHz</td> <td>-10.73 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:57:32</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.411431 GHz	-1.10 dBm			T1	1		2.4030689 GHz	-10.29 dBm	Occ Bw	17.862137862 MHz	T2	1		2.4209311 GHz	-10.73 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.411431 GHz	-1.10 dBm																									
T1	1		2.4030689 GHz	-10.29 dBm	Occ Bw	17.862137862 MHz																							
T2	1		2.4209311 GHz	-10.73 dBm																									
CH06	 <p><b>2 Marker Table</b></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>2.436161 GHz</td> <td>-0.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4280689 GHz</td> <td>-9.33 dBm</td> <td>Occ Bw</td> <td>17.892107892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4409611 GHz</td> <td>-9.15 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 16:01:23</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.436161 GHz	-0.92 dBm			T1	1		2.4280689 GHz	-9.33 dBm	Occ Bw	17.892107892 MHz	T2	1		2.4409611 GHz	-9.15 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.436161 GHz	-0.92 dBm																									
T1	1		2.4280689 GHz	-9.33 dBm	Occ Bw	17.892107892 MHz																							
T2	1		2.4409611 GHz	-9.15 dBm																									
CH11	 <p><b>2 Marker Table</b></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>2.461311 GHz</td> <td>-1.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4530689 GHz</td> <td>-9.28 dBm</td> <td>Occ Bw</td> <td>17.892107892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4709611 GHz</td> <td>-9.71 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 16:07:34</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461311 GHz	-1.57 dBm			T1	1		2.4530689 GHz	-9.28 dBm	Occ Bw	17.892107892 MHz	T2	1		2.4709611 GHz	-9.71 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.461311 GHz	-1.57 dBm																									
T1	1		2.4530689 GHz	-9.28 dBm	Occ Bw	17.892107892 MHz																							
T2	1		2.4709611 GHz	-9.71 dBm																									

### Appendix E: Duty Cycle

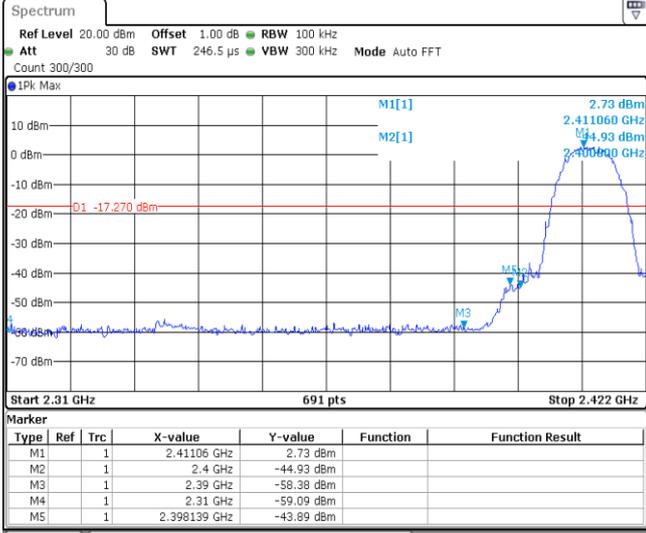
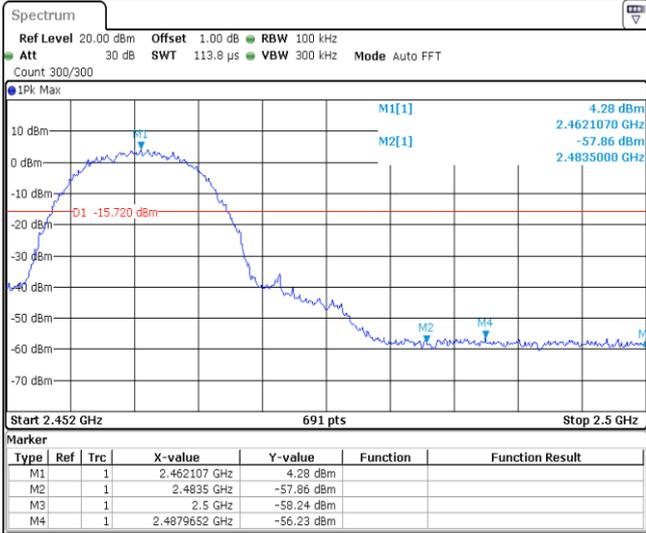
Modulation Type	Test Frequency (MHz)	T <sub>on time</sub> for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on time</sub> (kHz)
11b	2437	8.40	8.50	98.8%	0.1
11g	2437	1.39	1.49	93.3%	0.7
11n20	2437	0.16	0.27	59.3%	6.3

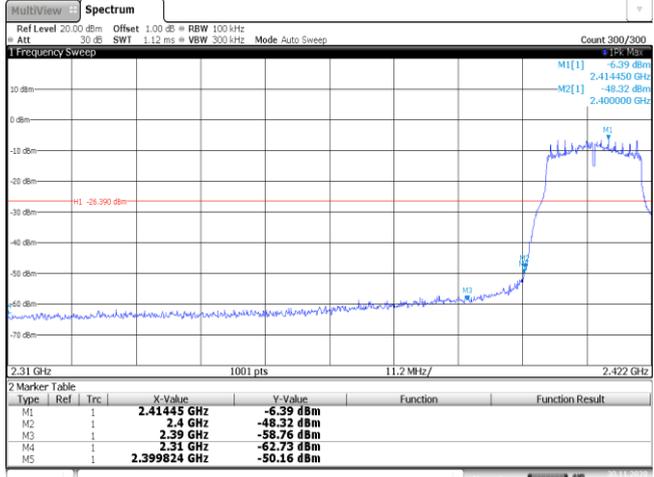
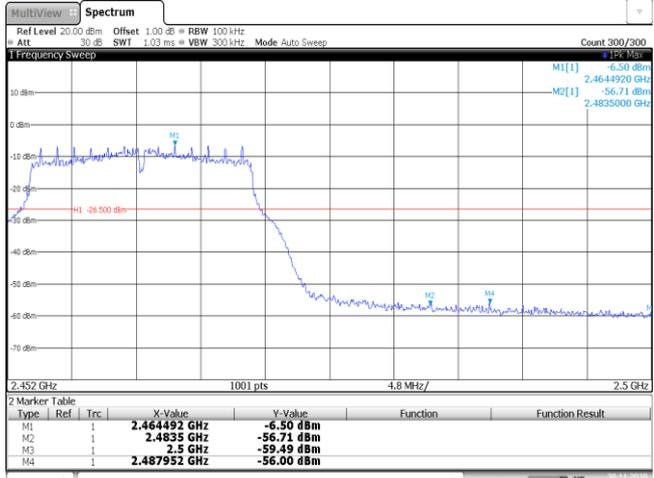


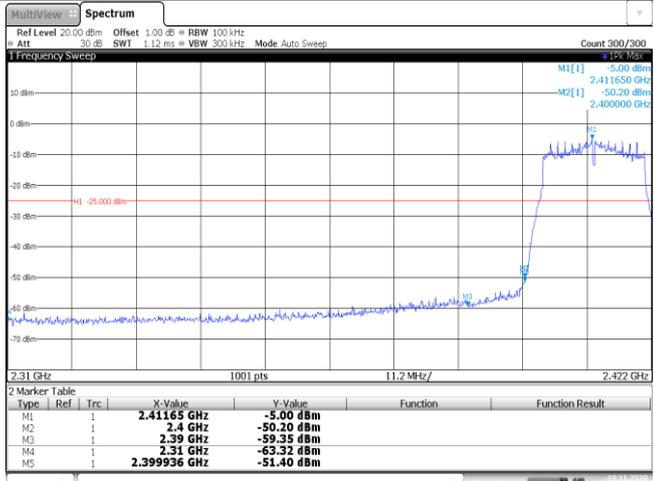
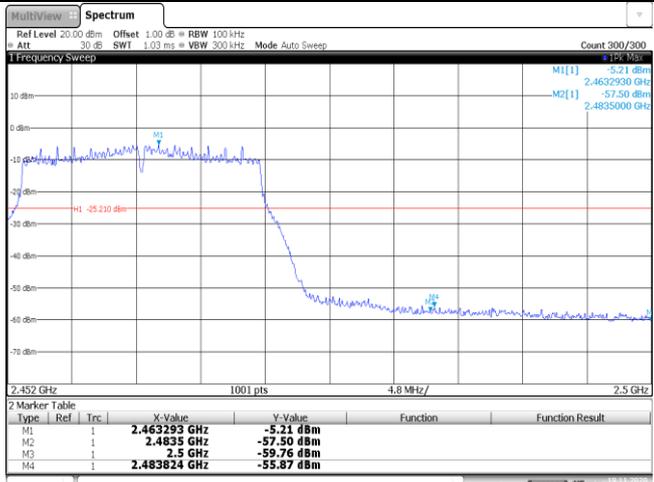
11n20

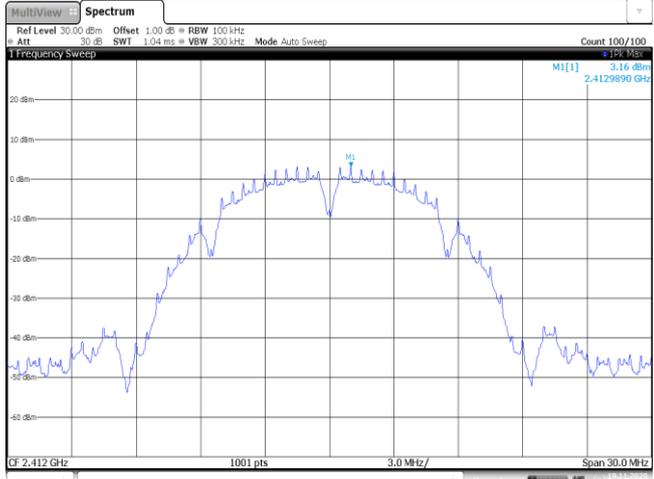
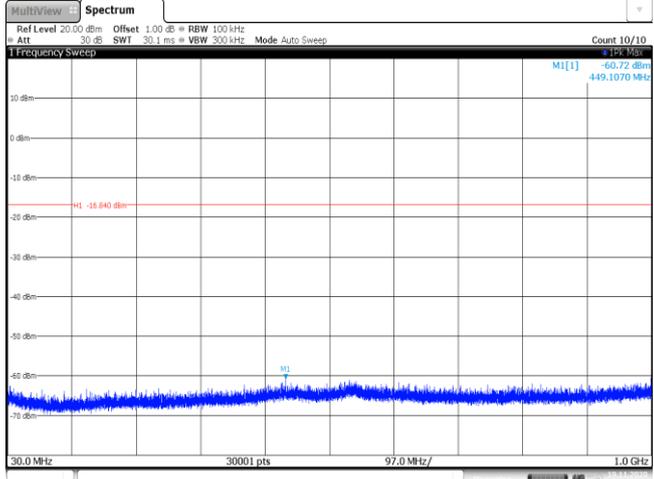
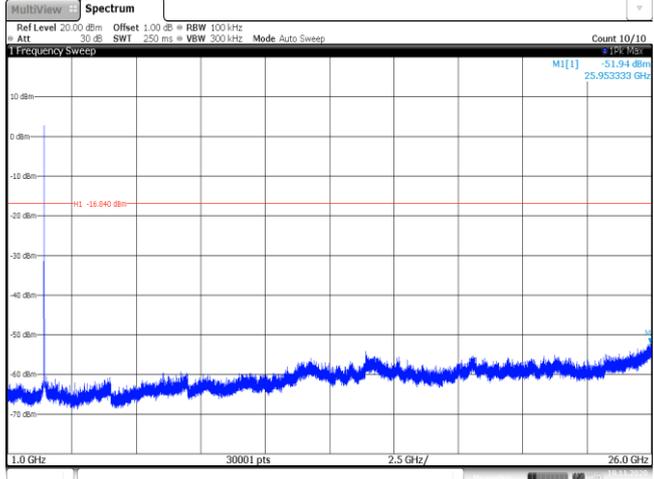


### Appendix F: Band edge and Spurious Emissions (conducted)

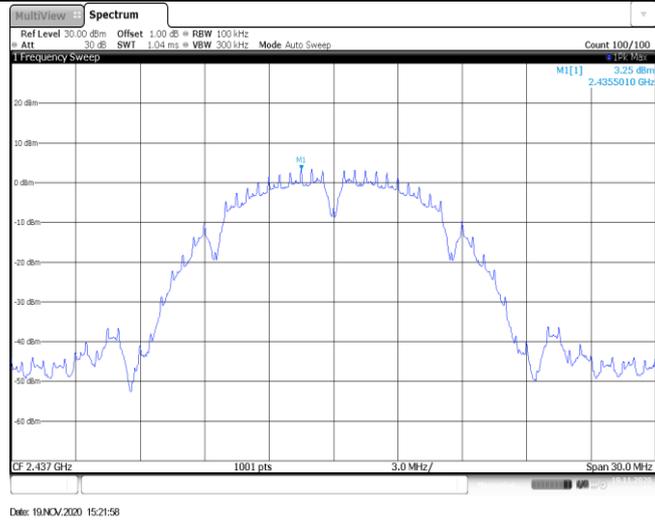
Test Item:	Bandedge	Type:	802.11 b																																										
CH01	 <p><b>Spectrum</b>                      Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz                      Att 30 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT                      Count 300/300</p> <p>1Pk Max</p> <p>M1[1] 2.73 dBm 2.411060 GHz                      M2[1] -44.93 dBm 2.41060 GHz                      M3 -59.09 dBm 2.31 GHz                      M4 -59.09 dBm 2.31 GHz                      M5 -43.89 dBm 2.398139 GHz</p> <p>D1 -17.270 dBm</p> <p>Start 2.31 GHz 691 pts Stop 2.422 GHz</p> <p><b>Marker</b></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>2.41106 GHz</td> <td>2.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-44.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-59.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398139 GHz</td> <td>-43.89 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23 NOV 2020 10:51:17</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.41106 GHz	2.73 dBm			M2	1		2.4 GHz	-44.93 dBm			M3	1		2.39 GHz	-59.09 dBm			M4	1		2.31 GHz	-59.09 dBm			M5	1		2.398139 GHz	-43.89 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.41106 GHz	2.73 dBm																																									
M2	1		2.4 GHz	-44.93 dBm																																									
M3	1		2.39 GHz	-59.09 dBm																																									
M4	1		2.31 GHz	-59.09 dBm																																									
M5	1		2.398139 GHz	-43.89 dBm																																									
CH11	 <p><b>Spectrum</b>                      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>M1[1] 4.28 dBm 2.462107 GHz                      M2[1] -57.86 dBm 2.4621070 GHz                      M3 -58.24 dBm 2.5 GHz                      M4 -56.23 dBm 2.4879652 GHz</p> <p>D1 -15.720 dBm</p> <p>Start 2.452 GHz 691 pts Stop 2.5 GHz</p> <p><b>Marker</b></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>2.462107 GHz</td> <td>4.28 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-58.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4879652 GHz</td> <td>-56.23 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 23 NOV 2020 10:52:46</p>			Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.462107 GHz	4.28 dBm			M2	1		2.4835 GHz	-57.86 dBm			M3	1		2.5 GHz	-58.24 dBm			M4	1		2.4879652 GHz	-56.23 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																							
M1	1		2.462107 GHz	4.28 dBm																																									
M2	1		2.4835 GHz	-57.86 dBm																																									
M3	1		2.5 GHz	-58.24 dBm																																									
M4	1		2.4879652 GHz	-56.23 dBm																																									

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	 <p><b>2 Marker Table</b></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>2.41445 GHz</td> <td>-6.39 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-58.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-50.16 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:41:44</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41445 GHz	-6.39 dBm			M2	1		2.4 GHz	-48.32 dBm			M3	1		2.39 GHz	-58.76 dBm			M4	1		2.31 GHz	-62.73 dBm			M5	1		2.399824 GHz	-50.16 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41445 GHz	-6.39 dBm																																									
M2	1		2.4 GHz	-48.32 dBm																																									
M3	1		2.39 GHz	-58.76 dBm																																									
M4	1		2.31 GHz	-62.73 dBm																																									
M5	1		2.399824 GHz	-50.16 dBm																																									
CH11	 <p><b>2 Marker Table</b></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>2.464492 GHz</td> <td>-6.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-56.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-59.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.487952 GHz</td> <td>-56.00 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30 NOV 2020 13:45:48</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-6.50 dBm			M2	1		2.4835 GHz	-56.71 dBm			M3	1		2.5 GHz	-59.49 dBm			M4	1		2.487952 GHz	-56.00 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.464492 GHz	-6.50 dBm																																									
M2	1		2.4835 GHz	-56.71 dBm																																									
M3	1		2.5 GHz	-59.49 dBm																																									
M4	1		2.487952 GHz	-56.00 dBm																																									

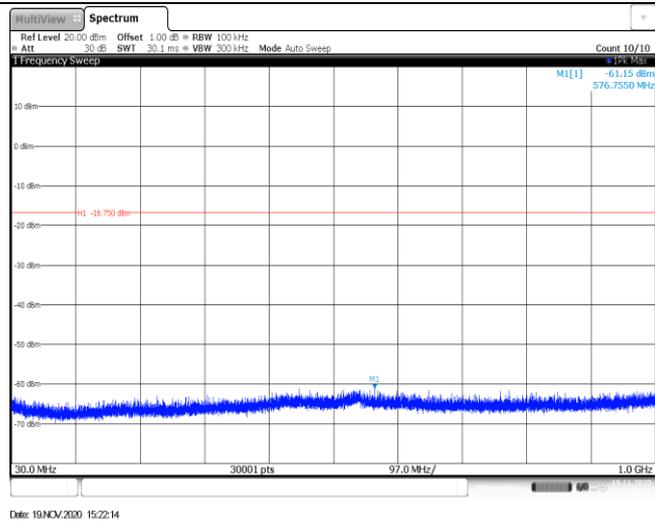
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>M1[1] 5.00 dBm 2.411650 GHz M2[1] -50.20 dBm 2.400000 GHz</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 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>2.41165 GHz</td> <td>-5.00 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399936 GHz</td> <td>-51.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 15:59:43</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41165 GHz	-5.00 dBm			M2	1		2.4 GHz	-50.20 dBm			M3	1		2.39 GHz	-59.35 dBm			M4	1		2.31 GHz	-63.32 dBm			M5	1		2.399936 GHz	-51.40 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41165 GHz	-5.00 dBm																																									
M2	1		2.4 GHz	-50.20 dBm																																									
M3	1		2.39 GHz	-59.35 dBm																																									
M4	1		2.31 GHz	-63.32 dBm																																									
M5	1		2.399936 GHz	-51.40 dBm																																									
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 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>M1[1] -5.21 dBm 2.463293 GHz M2[1] -57.50 dBm 2.4835000 GHz</p> <p>2.452 GHz 1001 pts 4.8 MHz/ 2.5 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>2.463293 GHz</td> <td>-5.21 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-59.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483824 GHz</td> <td>-55.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19/NOV/2020 16:11:51</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463293 GHz	-5.21 dBm			M2	1		2.4835 GHz	-57.50 dBm			M3	1		2.5 GHz	-59.76 dBm			M4	1		2.483824 GHz	-55.87 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.463293 GHz	-5.21 dBm																																									
M2	1		2.4835 GHz	-57.50 dBm																																									
M3	1		2.5 GHz	-59.76 dBm																																									
M4	1		2.483824 GHz	-55.87 dBm																																									

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

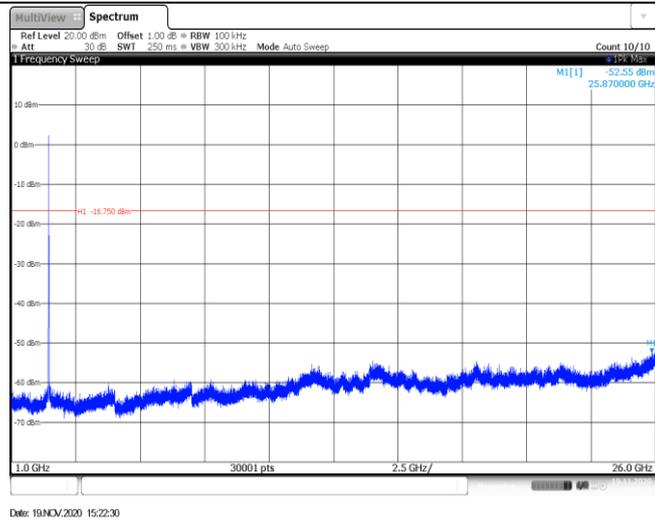
CH06  
Reference level



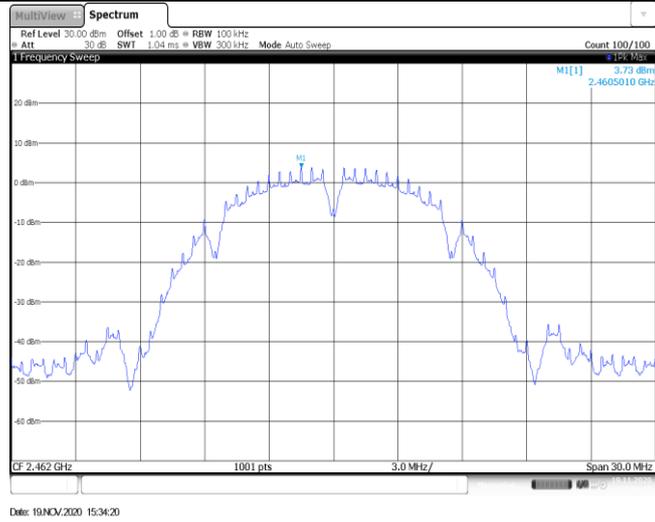
CH06  
30MHz~1000MHz



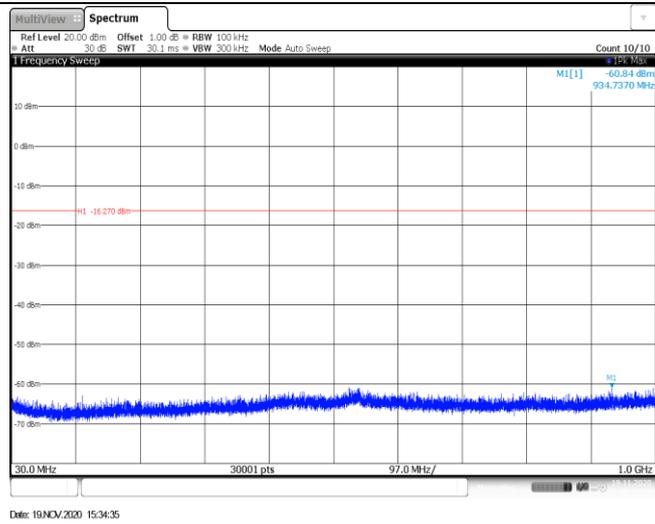
CH06  
1GHz~26GHz



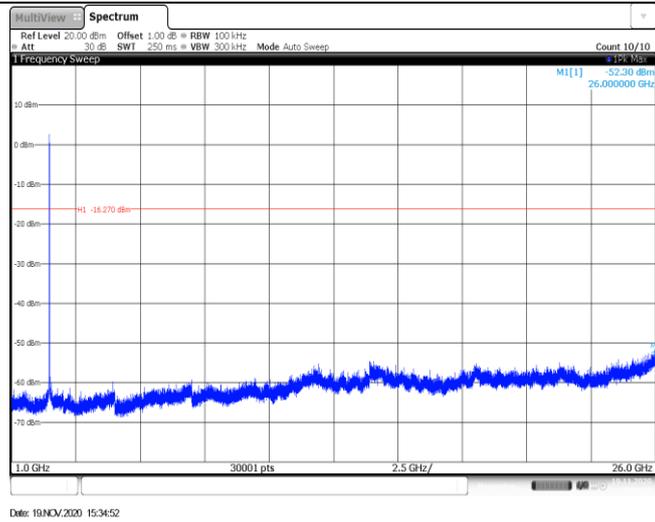
CH11  
Reference level



CH11  
30MHz~1000MHz

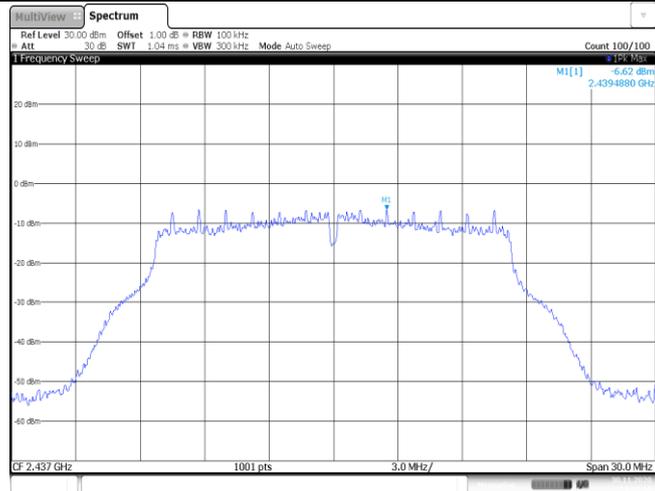


CH11  
1GHz~26GHz



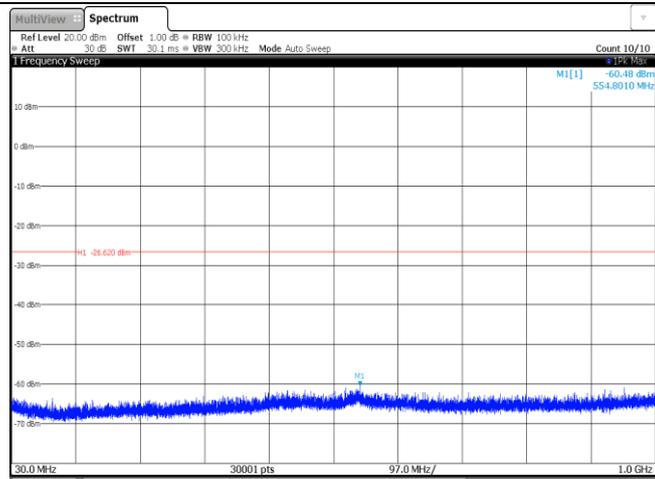
Test Item:	SE	Type:	802.11 g
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

CH06  
Reference level



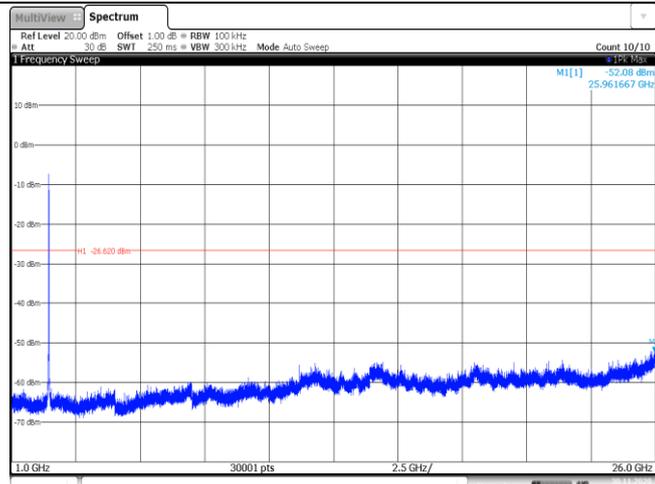
Date: 30/07/2020 13:44:20

CH06  
30MHz~1000MHz



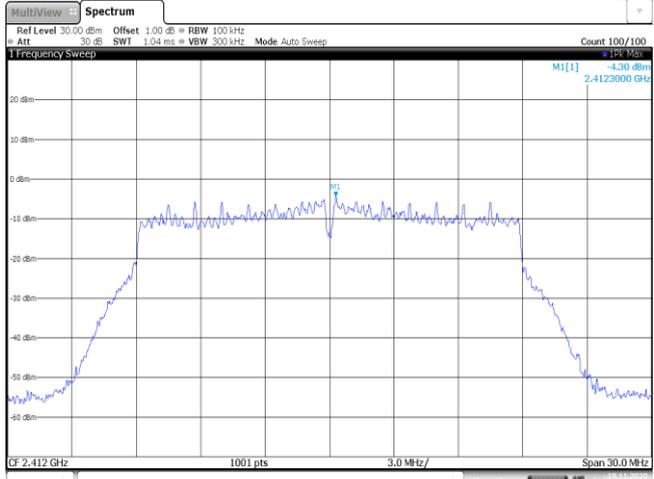
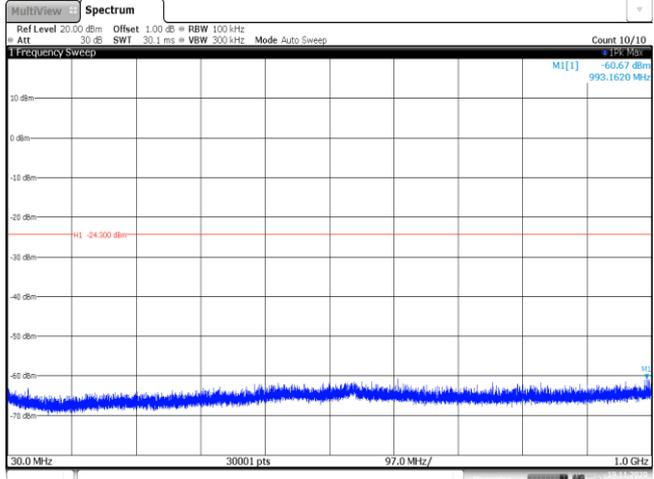
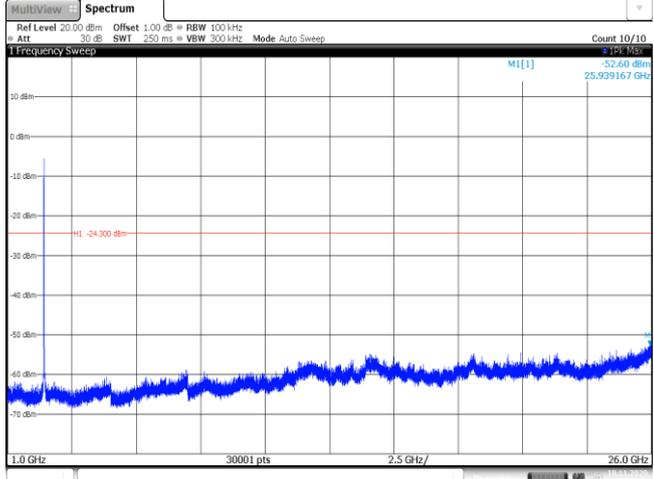
Date: 30/07/2020 13:44:26

CH06  
1GHz~26GHz



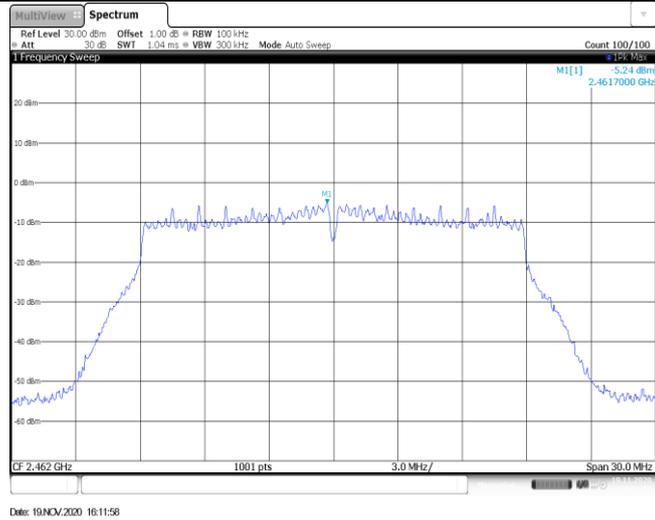
Date: 30/07/2020 13:44:43

<p>CH11 Reference level</p>	<p>MultiView Spectrum          Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Count 100/100          Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep          1 Frequency Sweep          M1[1] -6.70 dBm          2.464880 GHz          CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 30/07/2020 13:46:29</p>
<p>CH11 30MHz~1000MHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Count 10/10          Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep          1 Frequency Sweep          M1[1] -61.34 dBm          462.1690 MHz          M1 -26.700 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 30/07/2020 13:46:45</p>
<p>CH11 1GHz~26GHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Count 10/10          Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep          1 Frequency Sweep          M1[1] -52.01 dBm          25.987500 GHz          M1 -26.700 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 30/07/2020 13:47:22</p>

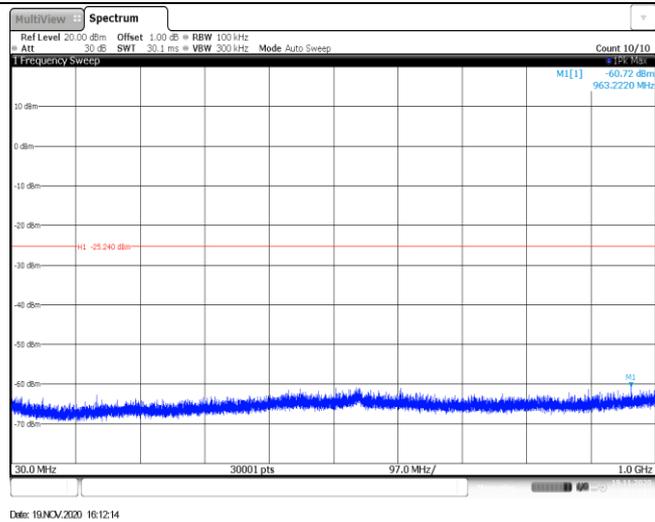
Test Item:	SE	Type:	802.11 n(HT20)
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

<p>CH06 Reference level</p>	<p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -5.44 dBm 2.4367300 GHz CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19/NOV/2020 16:06:19</p>
<p>CH06 30MHz~1000MHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.01 dBm 995.3930 MHz M1 -25.44 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19/NOV/2020 16:06:35</p>
<p>CH06 1GHz~26GHz</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -52.42 dBm 25.985000 GHz M1 -25.44 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19/NOV/2020 16:06:52</p>

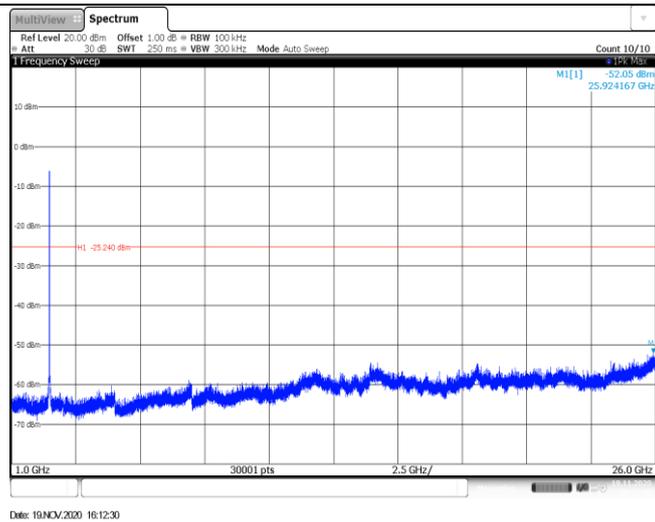
CH11  
Reference level



CH11  
30MHz~1000MHz



CH11  
1GHz~26GHz



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