

APPENDIX REPORT

Project No.	SHT2010073001EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20100730003	Model No.	MX3K
Start test date	2021-07-15	Finish date	2021-07-15
Temperature	24.8°C	Humidity	29%
Test Engineer	Hailey Chen	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

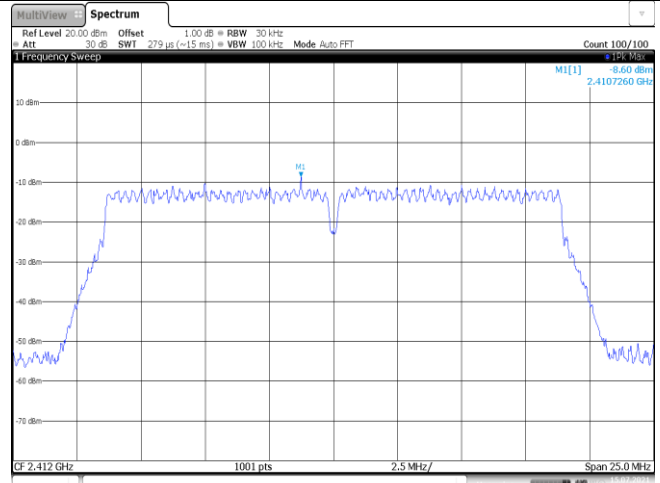
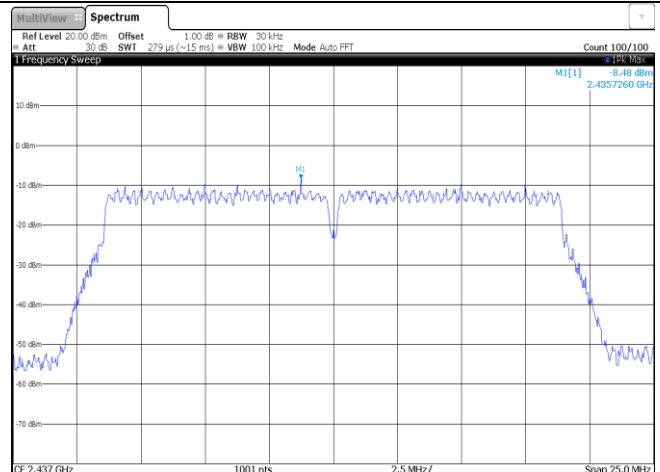
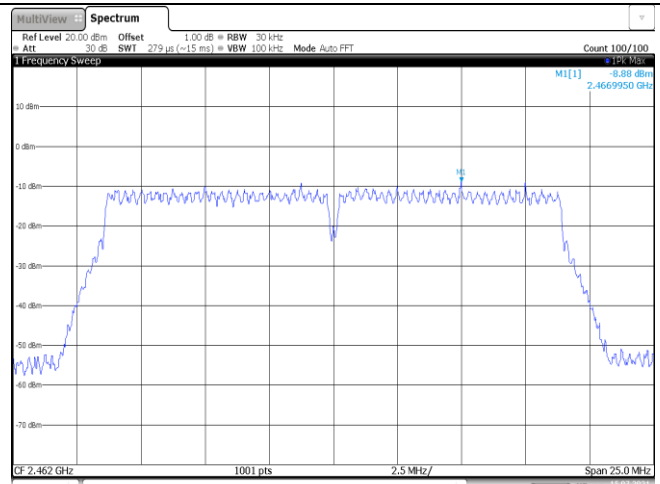
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.32	13.88	≤ 30.00	Pass
	06	16.51	14.07		
	11	16.14	13.81		
802.11g	01	15.58	12.80	≤ 30.00	Pass
	06	15.76	13.15		
	11	15.38	12.37		
802.11n (HT20)	01	15.81	13.39	≤ 30.00	Pass
	06	16.02	13.51		
	11	15.60	13.21		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	4.50	≤8.00	Pass
	06	5.08		
	11	5.18		
802.11g	01	-9.19	≤8.00	Pass
	06	-9.94		
	11	-9.27		
802.11n(HT20)	01	-8.60	≤8.00	Pass
	06	-8.48		
	11	-8.88		

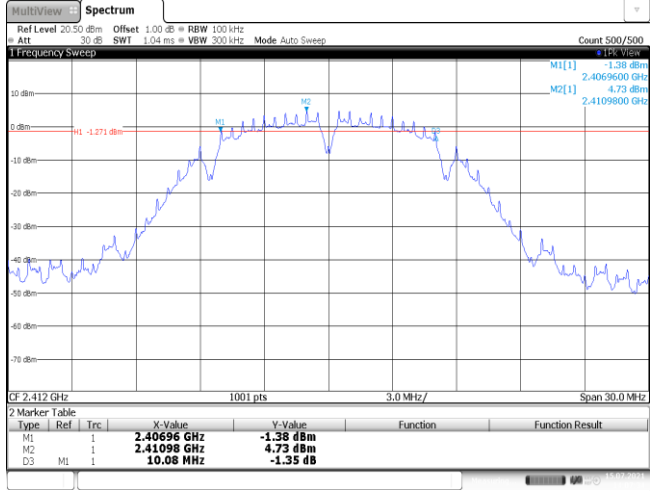
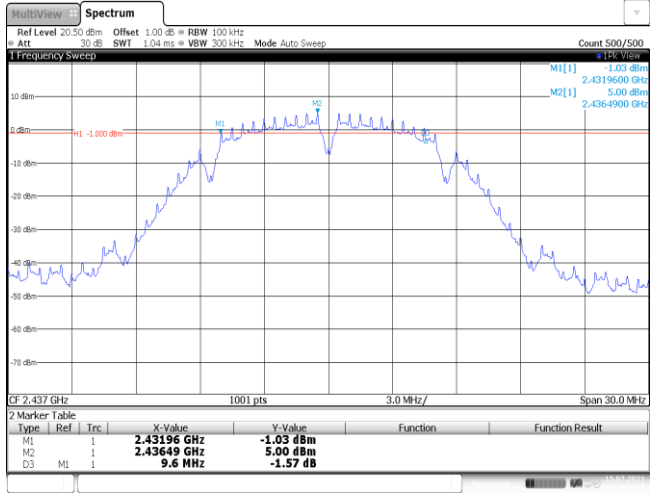
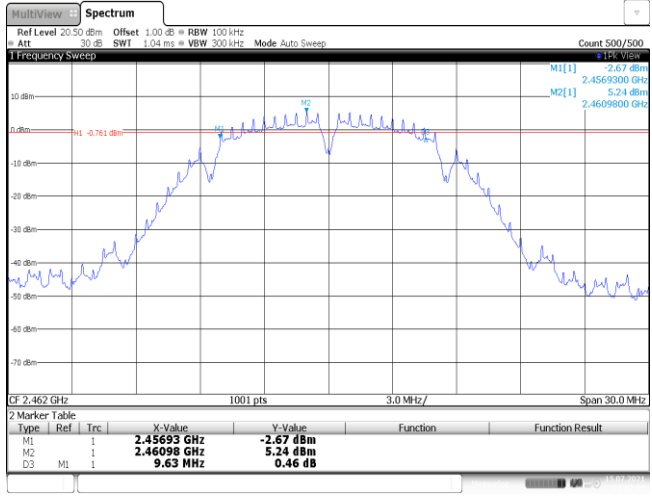
Type:	802.11 b
CH01	<p> Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] 4.50 dBm 2.4109930 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 15-Jul-2021 14:59:27 </p>
CH06	<p> Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] 5.08 dBm 2.4359930 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 15-Jul-2021 14:14:02 </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] 5.18 dBm 2.4629910 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 15-Jul-2021 14:53:20 </p>

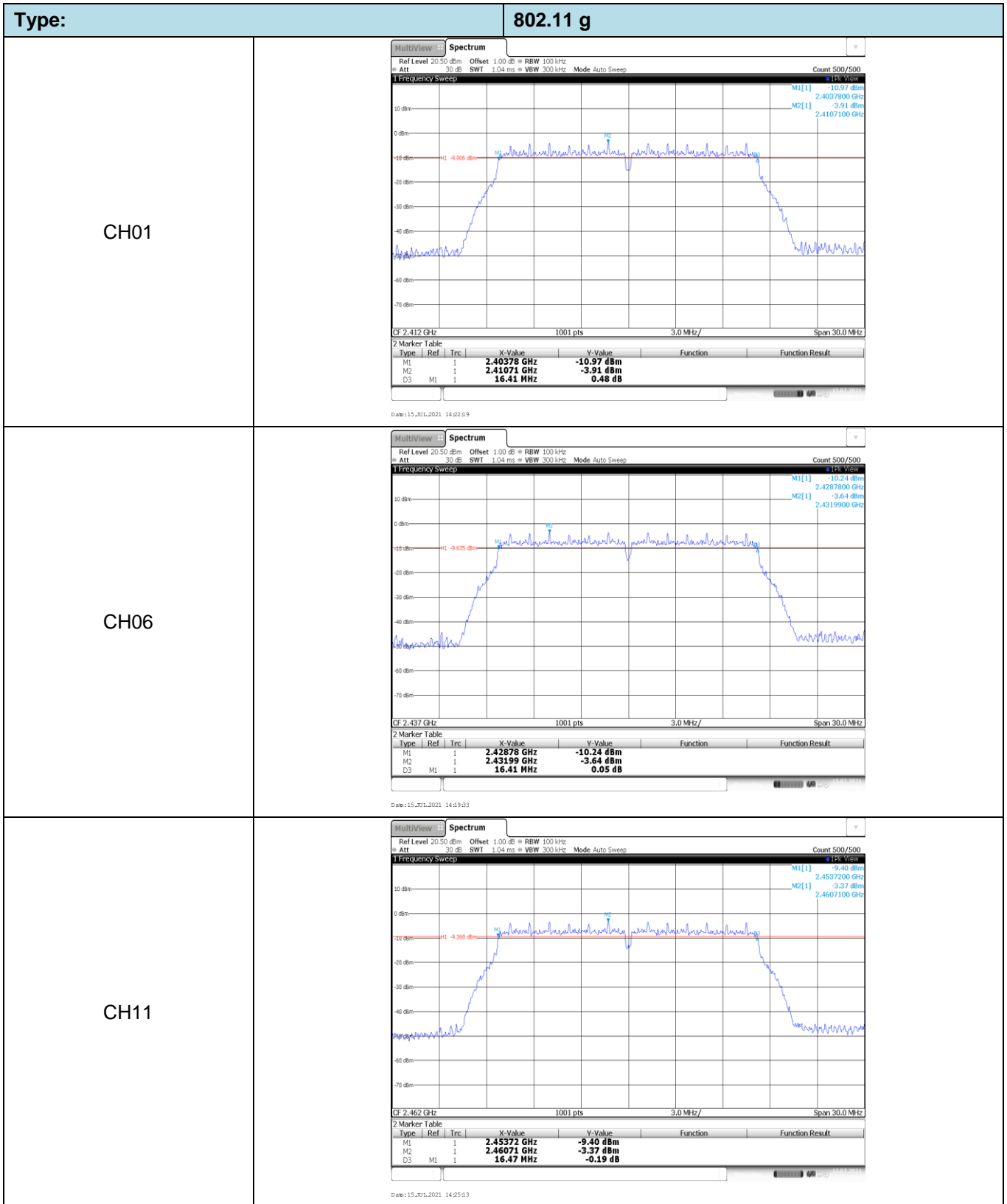
Type:	802.11 g
CH01	<p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -9.19 dBm 2.4194930 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 15-Jul-2021 14:23:10</p>
CH06	<p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -9.94 dBm 2.4319800 GHz CF 2.427 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 15-Jul-2021 14:20:27</p>
CH11	<p>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 MI[1] -9.27 dBm 2.4644980 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 15-Jul-2021 14:26:43</p>

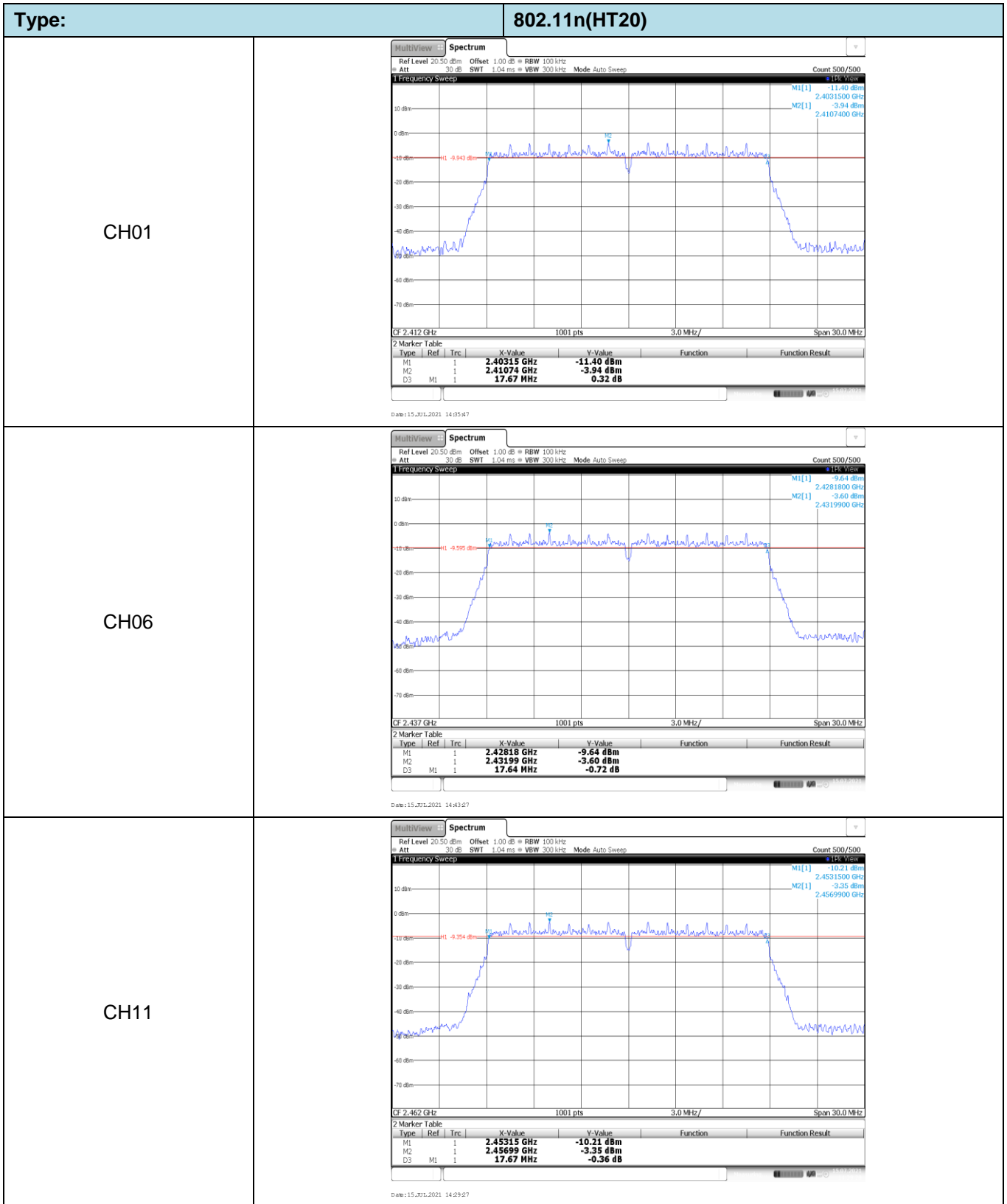
Type:	802.11n(HT20)
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>MI[1] -8.60 dBm 2.4107260 GHz</p> <p>CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 15-Jul-2021 14:27:26</p>
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-15 ms) VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>MI[1] -8.48 dBm 2.4357260 GHz</p> <p>CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 15-Jul-2021 14:44:25</p>
CH11	 <p>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</p> <p>MI[1] -8.89 dBm 2.4669950 GHz</p> <p>CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 15-Jul-2021 14:51:25</p>

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	10.08	≥0.5	Pass
	06	9.60		
	11	9.63		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.47		
802.11n(HT20)	01	17.67	≥0.5	Pass
	06	17.64		
	11	17.67		

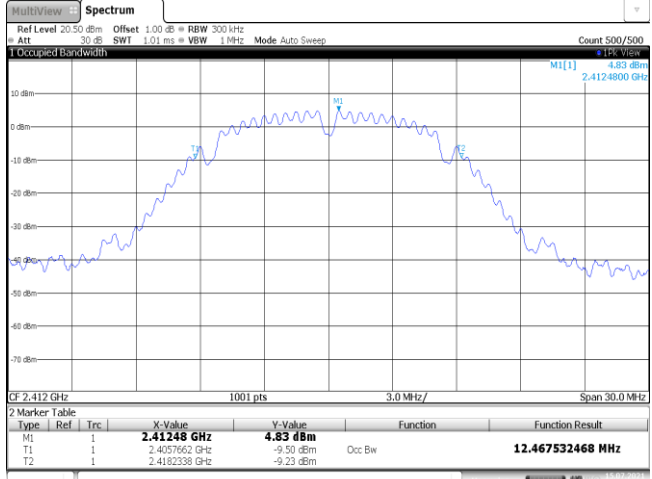
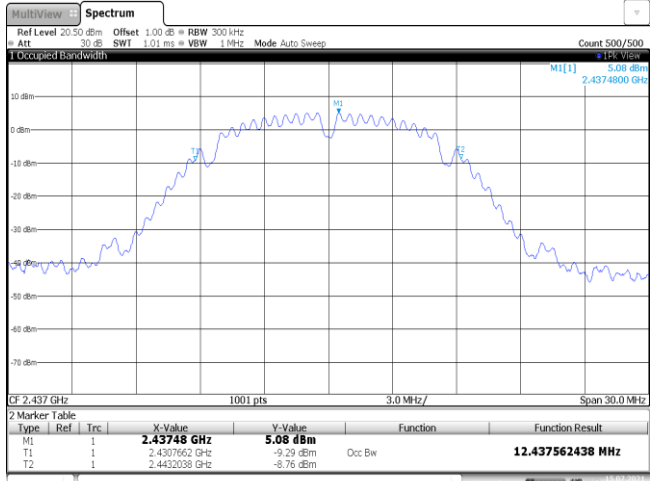
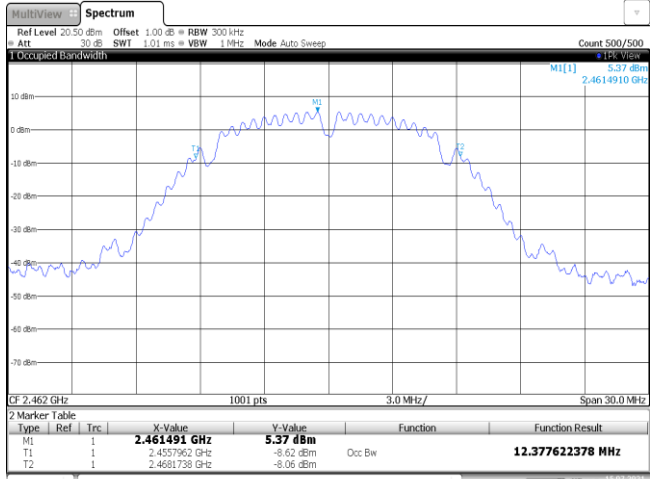
Type:	802.11 b																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40696 GHz</td> <td>-1.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41098 GHz</td> <td>4.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>10.08 MHz</td> <td>-1.35 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:07:24</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40696 GHz	-1.38 dBm			M2	1		2.41098 GHz	4.73 dBm			D3	M1	1	10.08 MHz	-1.35 dB		
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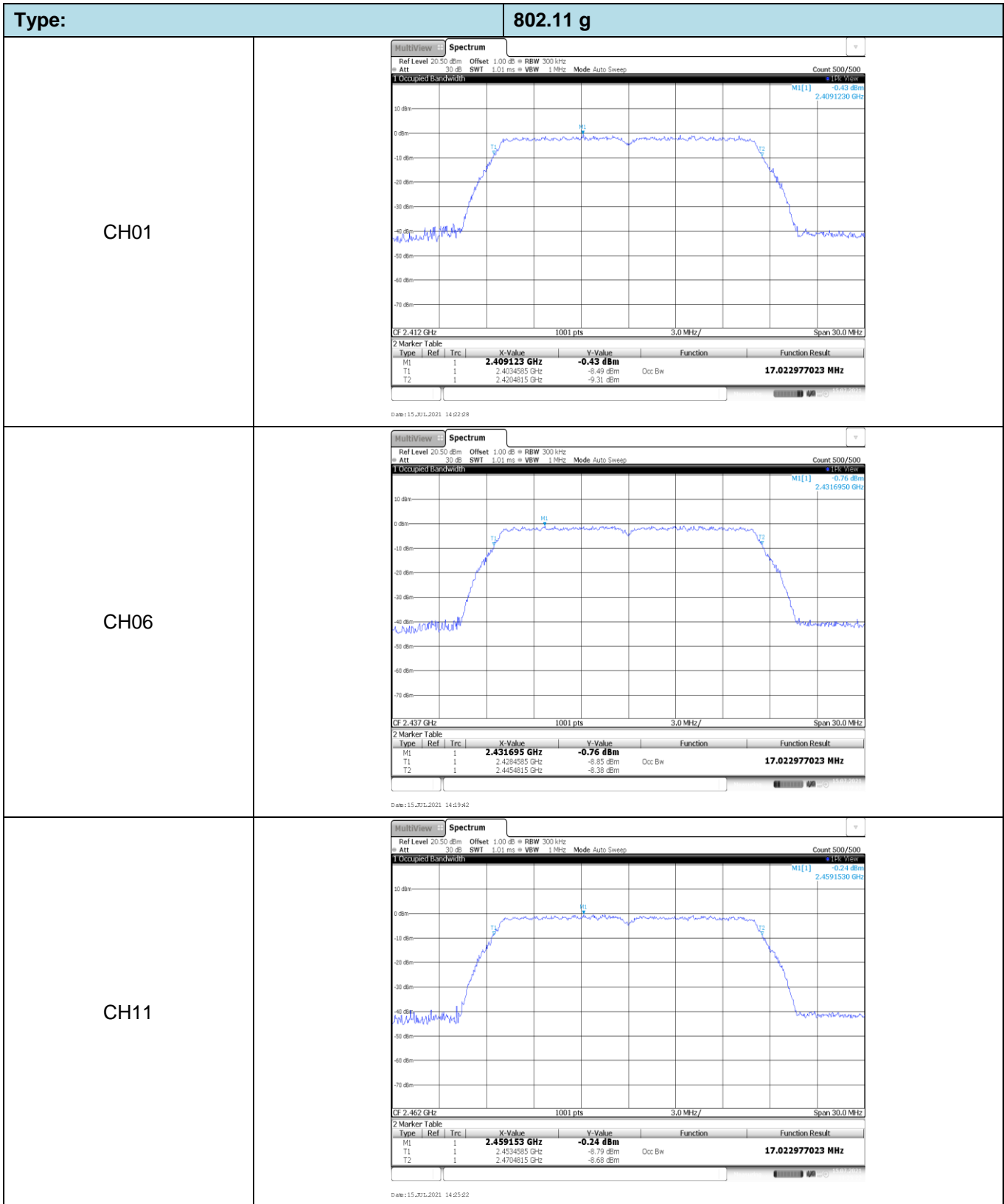


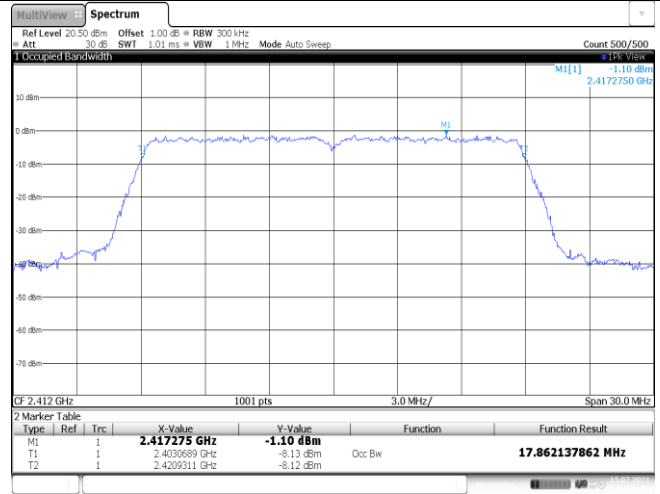
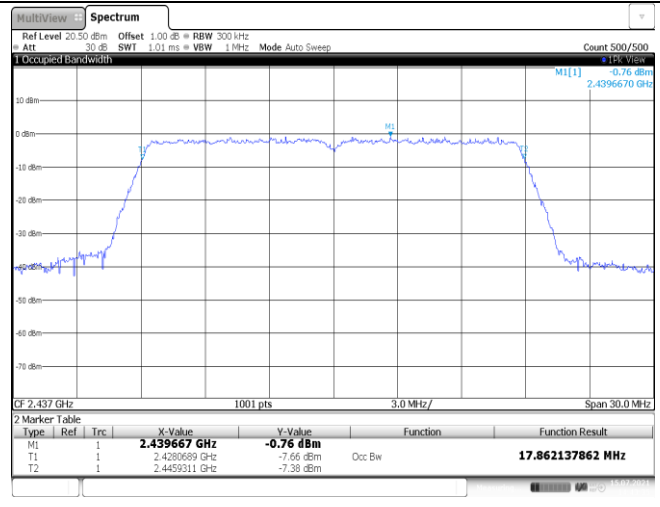
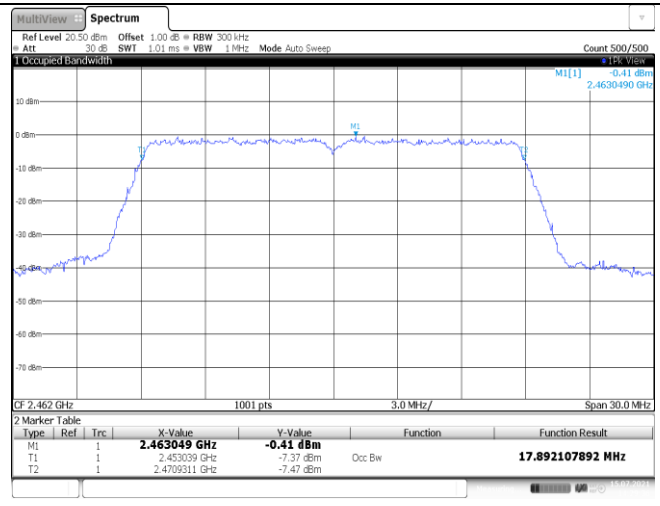


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.47	-	Pass
	06	12.44		
	11	12.38		
802.11g	01	17.02	-	Pass
	06	17.02		
	11	17.02		
802.11n(HT20)	01	17.86	-	Pass
	06	17.86		
	11	17.89		

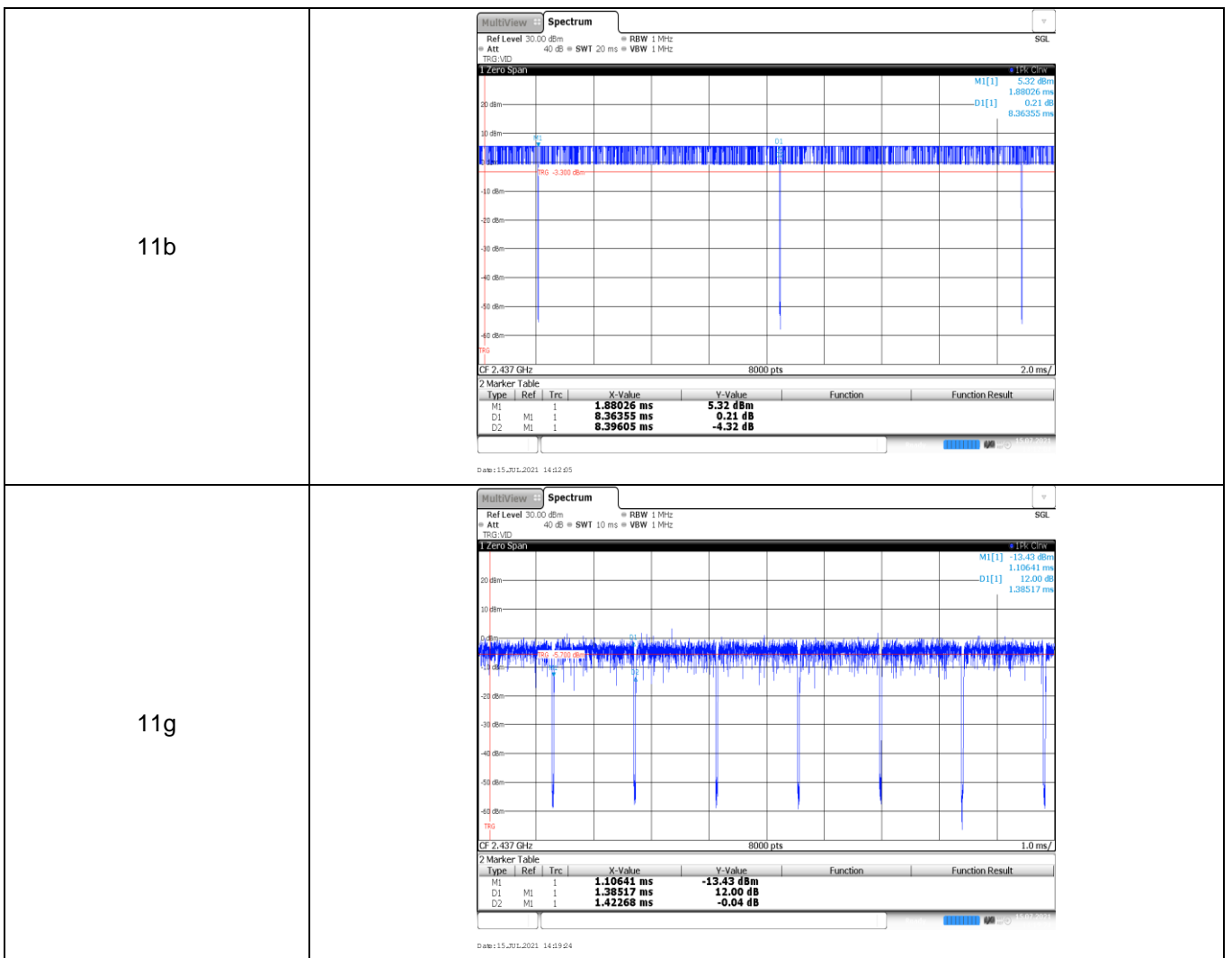
Type:	802.11 b																												
CH01	 <p>Occupied Bandwidth</p> <p>Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth</p> <p>MI[1] 4.83 dBm 2.4124800 GHz</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</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>2.41248 GHz</td> <td>4.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4057662 GHz</td> <td>-9.50 dBm</td> <td>Occ Bw</td> <td>12.467532468 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4182338 GHz</td> <td>-9.23 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:07:42</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41248 GHz	4.83 dBm			T1	1		2.4057662 GHz	-9.50 dBm	Occ Bw	12.467532468 MHz	T2	1		2.4182338 GHz	-9.23 dBm		
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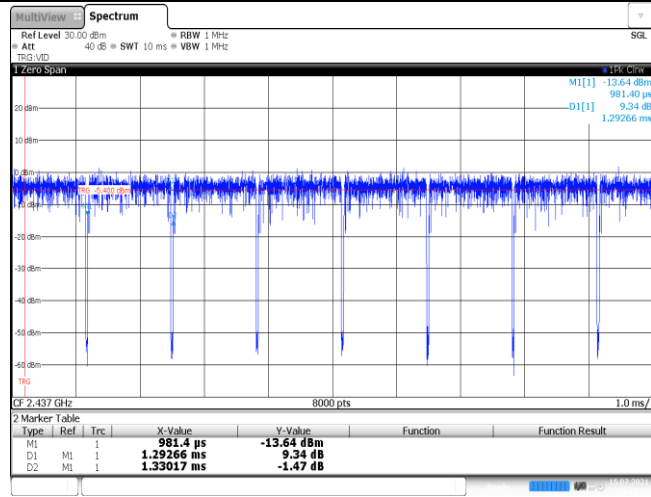
Type:	802.11n(HT20)																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 11.10 dBm 2.4172750 GHz</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <thead> <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>2.417275 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>-8.13 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>-8.12 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:25:55</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.417275 GHz	-1.10 dBm			T1	1		2.4030689 GHz	-8.13 dBm	Occ Bw	17.862137862 MHz	T2	1		2.4209311 GHz	-8.12 dBm		
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T1	1		2.4280689 GHz	-7.66 dBm	Occ Bw	17.862137862 MHz																							
T2	1		2.4492311 GHz	-7.38 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] 0.41 dBm 2.4630490 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>2.463049 GHz</td> <td>-0.41 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.453039 GHz</td> <td>-7.37 dBm</td> <td>Occ Bw</td> <td>17.892107892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4709311 GHz</td> <td>-7.47 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:29:26</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463049 GHz	-0.41 dBm			T1	1		2.453039 GHz	-7.37 dBm	Occ Bw	17.892107892 MHz	T2	1		2.4709311 GHz	-7.47 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.463049 GHz	-0.41 dBm																									
T1	1		2.453039 GHz	-7.37 dBm	Occ Bw	17.892107892 MHz																							
T2	1		2.4709311 GHz	-7.47 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	8.36	8.40	99.5%	0.1
11g	2437	1.39	1.42	97.9%	0.7
11n20	2437	1.29	1.33	97.0%	0.8



11n20



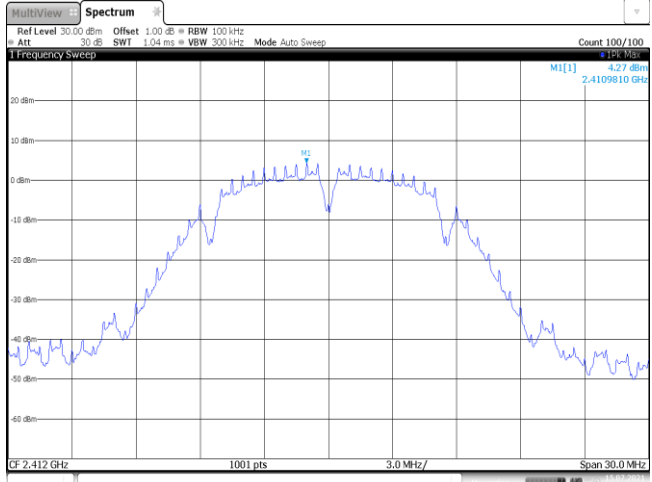
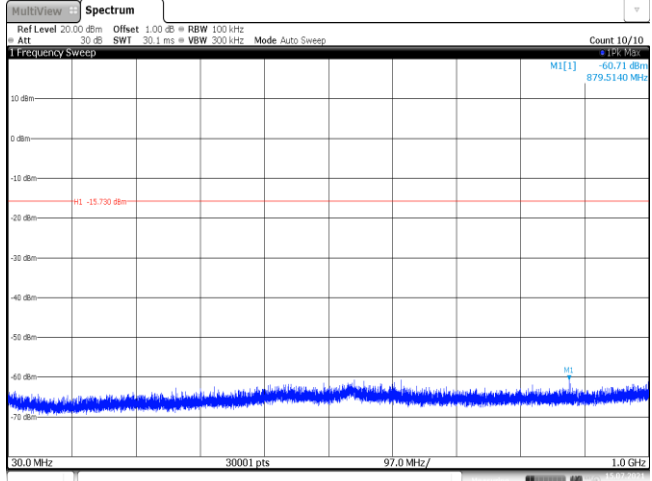
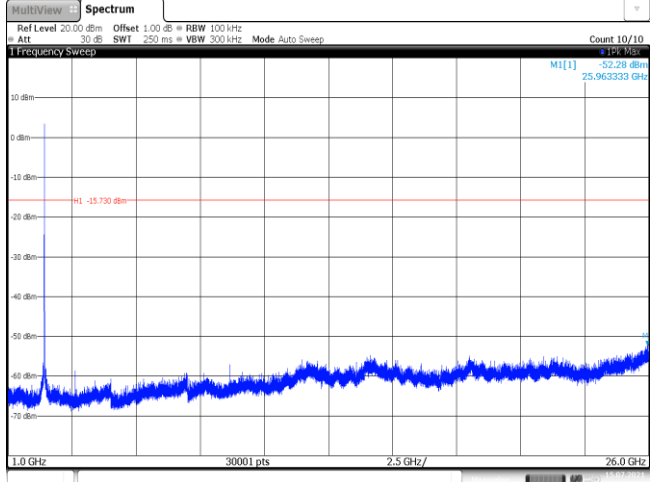
Date: 15.10.2021 14:43:17

Appendix F: Band edge and Spurious Emissions (conducted)

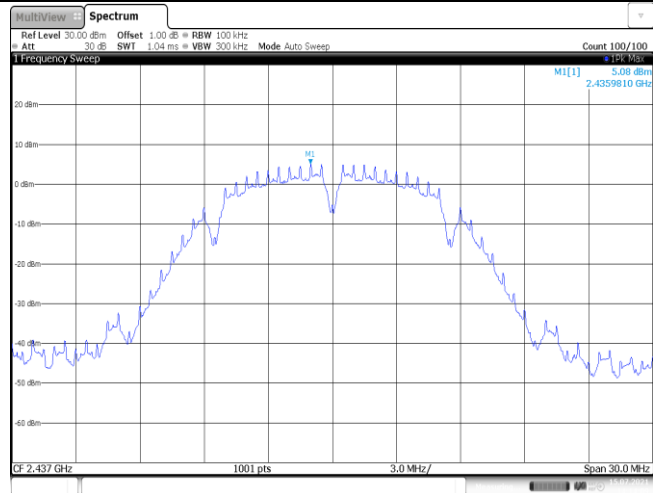
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<p style="text-align: center;">CH11</p>	<p style="text-align: center;">Date: 15.7.2021 14:53:30</p>		

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	<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>2.40695 GHz</td> <td>-4.10 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-48.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-52.43 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.397024 GHz</td> <td>-45.33 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:23:20</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40695 GHz	-4.10 dBm			M2	1		2.4 GHz	-48.78 dBm			M3	1		2.39 GHz	-52.43 dBm			M4	1		2.31 GHz	-62.15 dBm			M5	1		2.397024 GHz	-45.33 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40695 GHz	-4.10 dBm																																									
M2	1		2.4 GHz	-48.78 dBm																																									
M3	1		2.39 GHz	-52.43 dBm																																									
M4	1		2.31 GHz	-62.15 dBm																																									
M5	1		2.397024 GHz	-45.33 dBm																																									
CH11	<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>2.456963 GHz</td> <td>-3.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-50.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-56.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483872 GHz</td> <td>-50.25 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15-Jul-2021 14:26:52</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.456963 GHz	-3.47 dBm			M2	1		2.4835 GHz	-50.93 dBm			M3	1		2.5 GHz	-56.59 dBm			M4	1		2.483872 GHz	-50.25 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>2.41691 GHz</td> <td>-4.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-46.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-51.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-60.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.397024 GHz</td> <td>-44.87 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41691 GHz	-4.08 dBm			M2	1		2.4 GHz	-46.78 dBm			M3	1		2.39 GHz	-51.57 dBm			M4	1		2.31 GHz	-60.29 dBm			M5	1		2.397024 GHz	-44.87 dBm		
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M4	1		2.31 GHz	-60.29 dBm																																									
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4835 GHz	-49.40 dBm																																									
M3	1		2.5 GHz	-57.50 dBm																																									
M4	1		2.484496 GHz	-48.34 dBm																																									

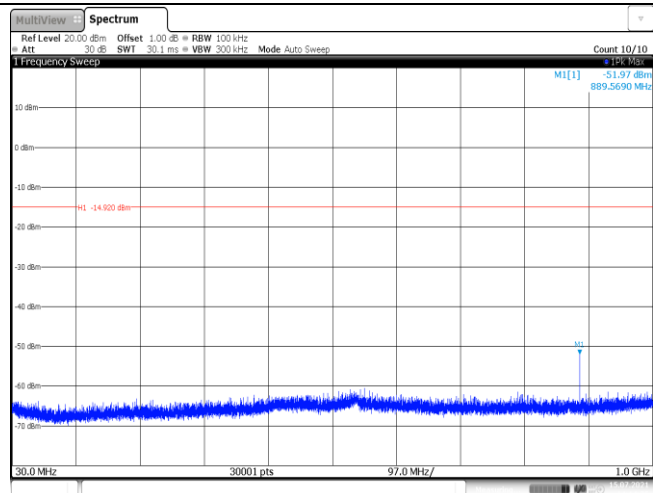
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<p>CH01 30MHz~1000MHz</p>		 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.71 dBm 879.5140 MHz M1 -15.730 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:15-Jul-2021 14:10:00</p>	
<p>CH01 1GHz~26GHz</p>		 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.28 dBm 25.963333 GHz M1 -15.730 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:15-Jul-2021 14:10:16</p>	

CH06
Reference level



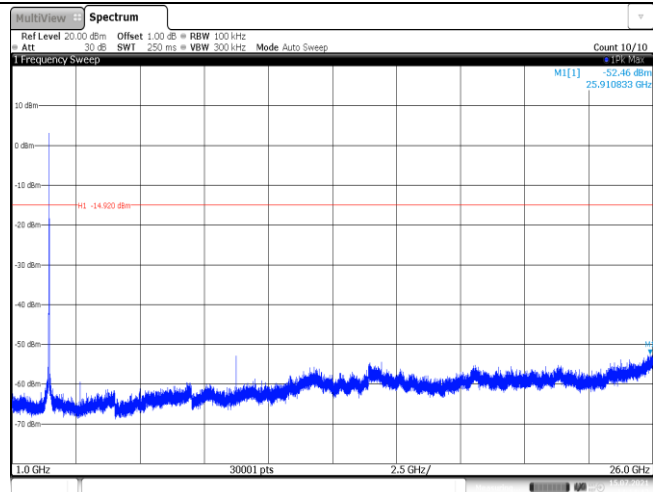
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CH06
30MHz~1000MHz



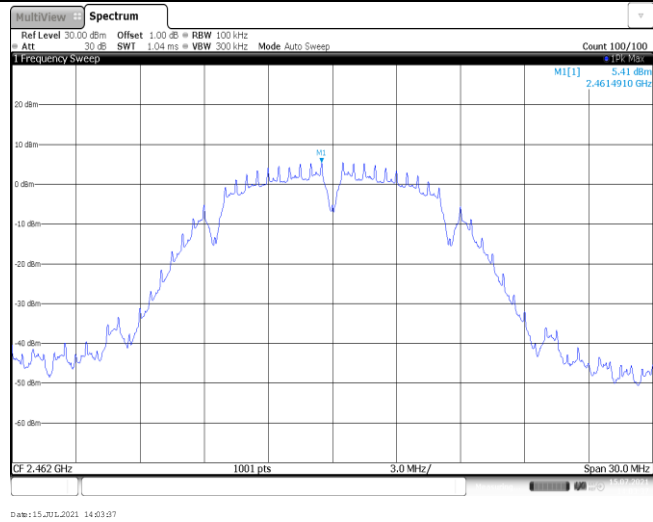
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CH06
1GHz~26GHz

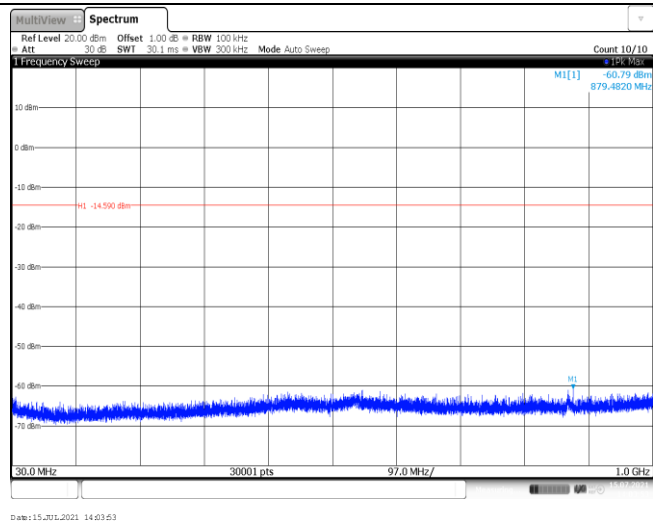


Date:15_JUL_2021 14:14:01

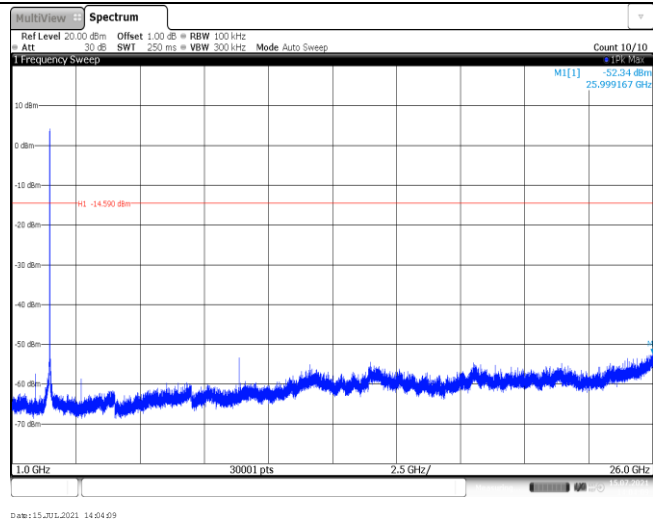
CH11
Reference level



CH11
30MHz~1000MHz

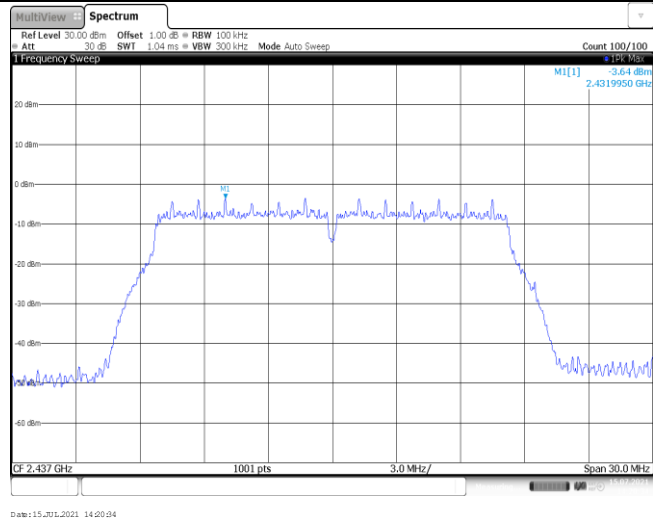


CH11
1GHz~26GHz

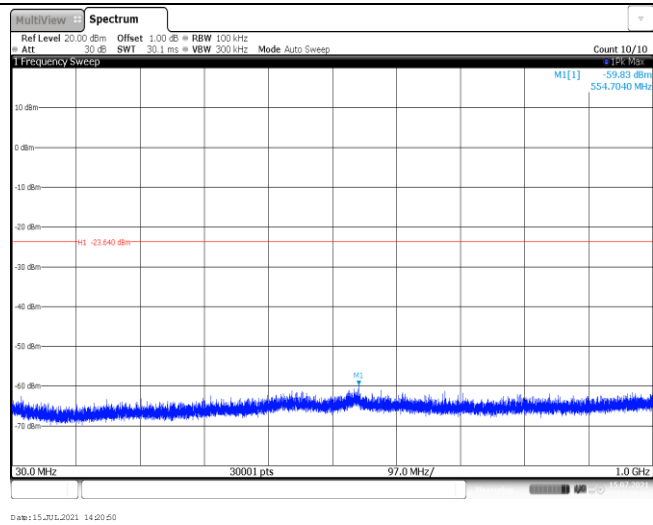


Test Item:	SE	Type:	802.11 g
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

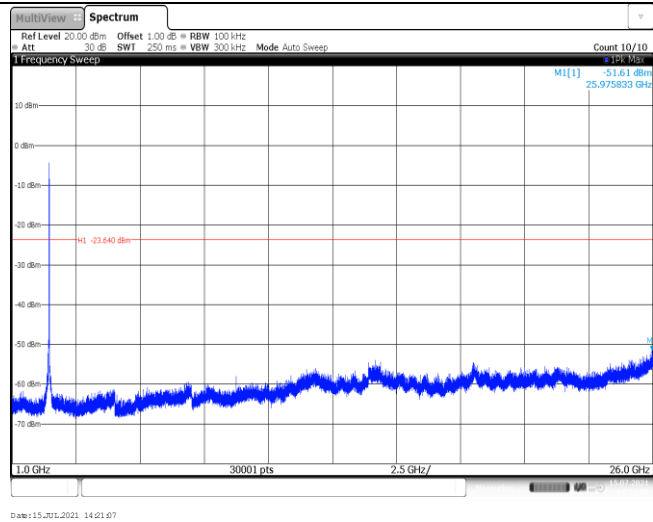
CH06
Reference level



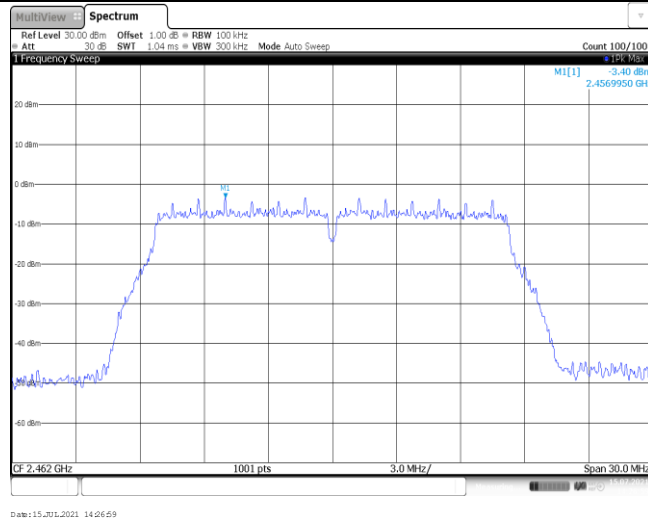
CH06
30MHz~1000MHz



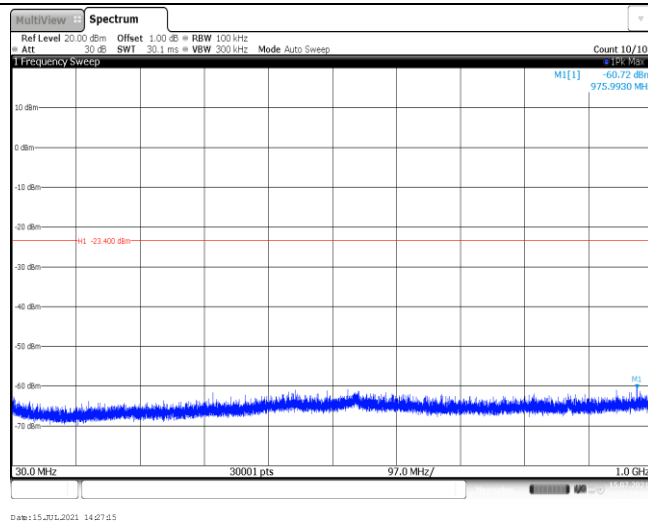
CH06
1GHz~26GHz



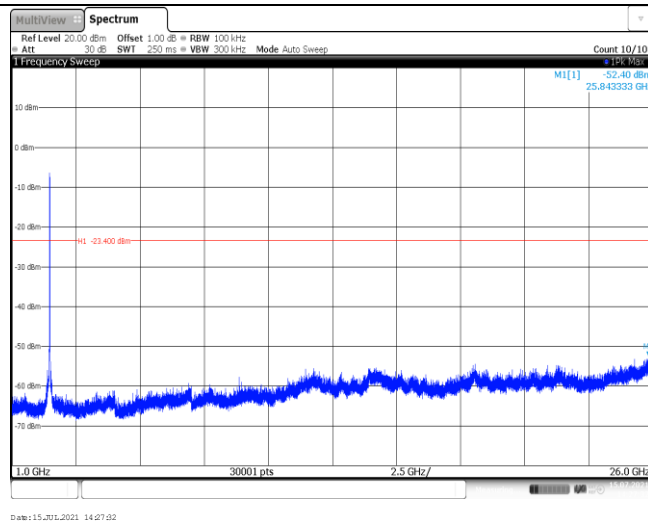
CH11
Reference level

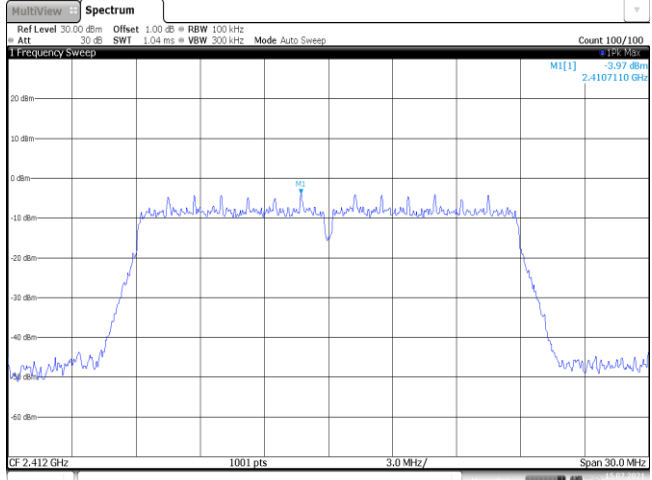
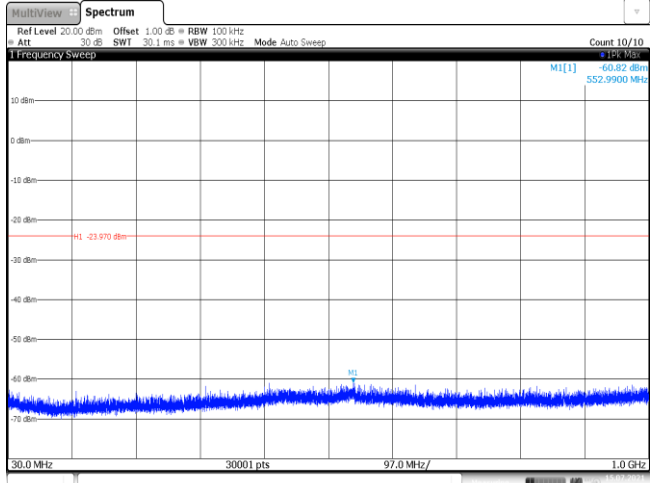
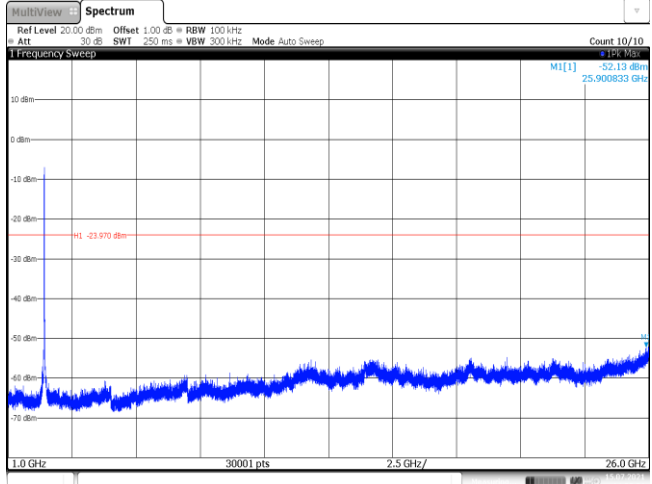


CH11
30MHz~1000MHz

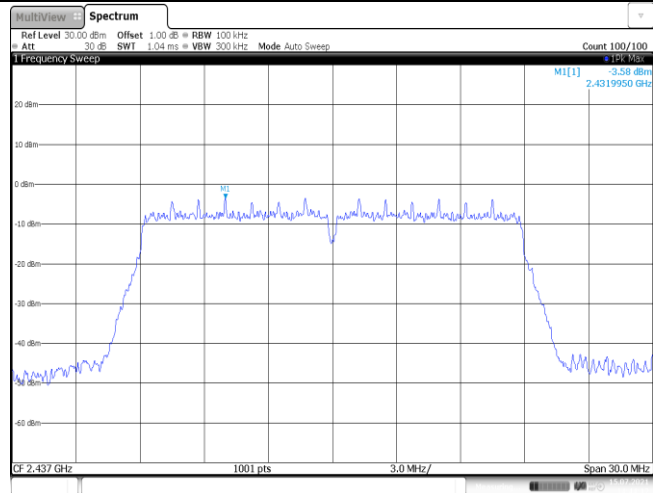


CH11
1GHz~26GHz

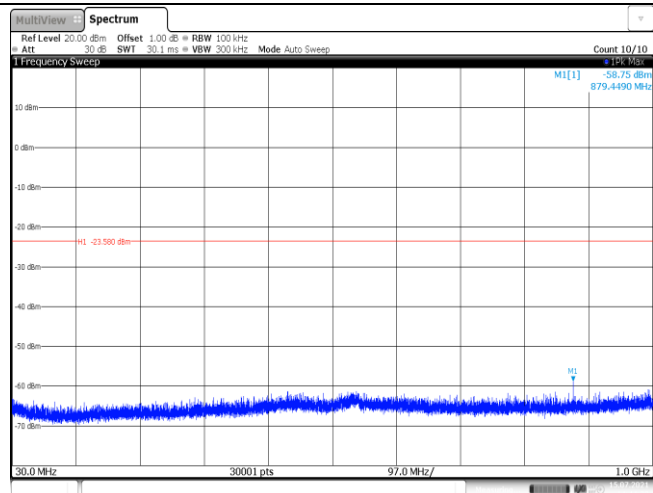


Test Item:	SE	Type:	802.11 n(HT20)
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<p>CH01 1GHz~26GHz</p>			

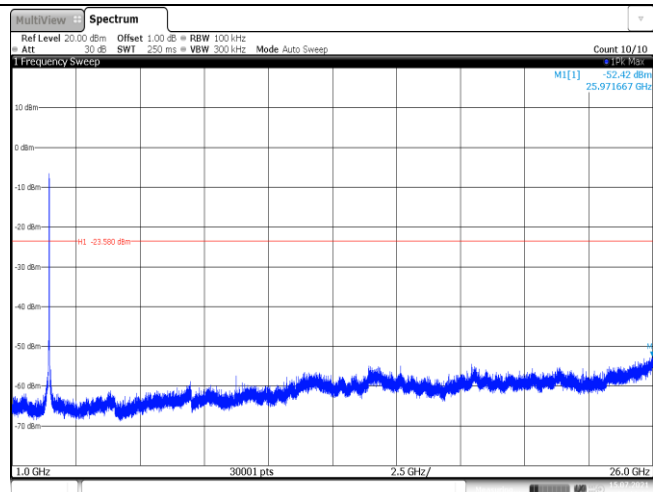
CH06
Reference level



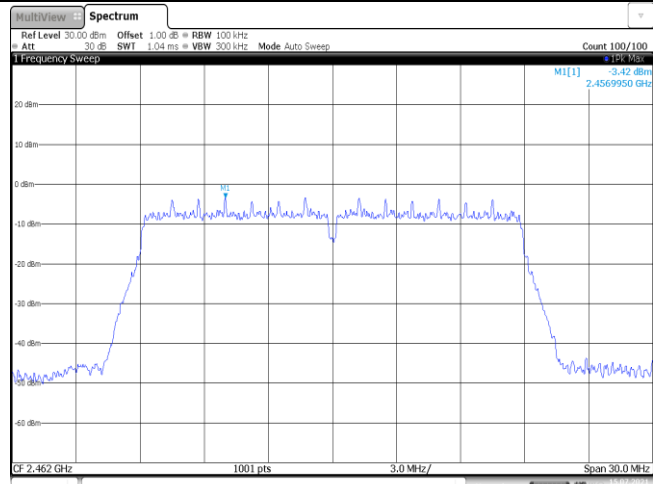
CH06
30MHz~1000MHz



CH06
1GHz~26GHz

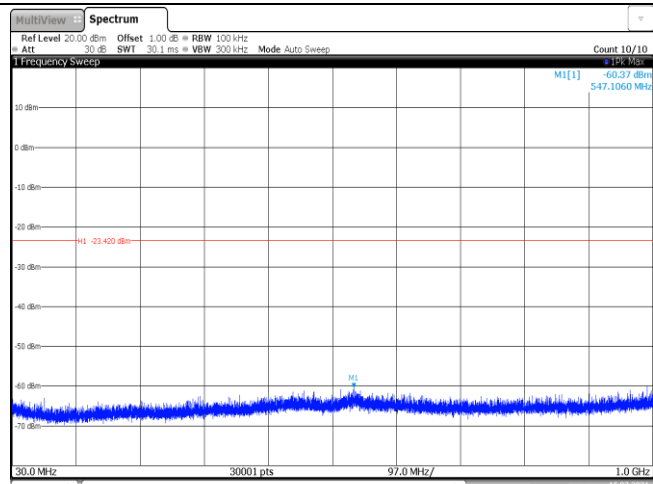


CH11
Reference level



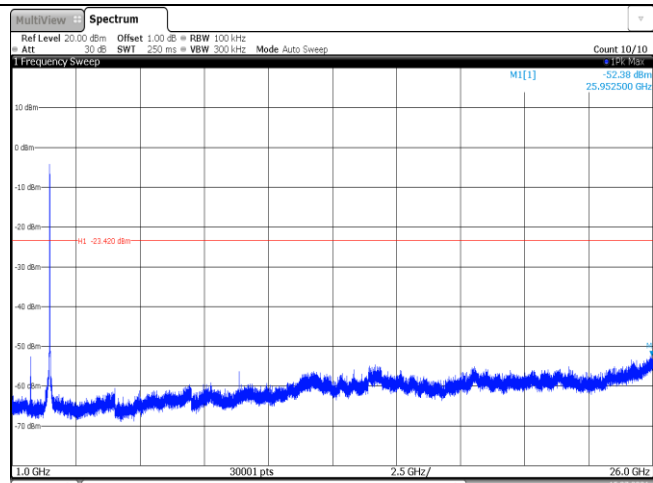
Date:15_JUL_2021 14:31:52

CH11
30MHz~1000MHz



Date:15_JUL_2021 14:32:08

CH11
1GHz~26GHz



Date:15_JUL_2021 14:32:24

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