

APPENDIX REPORT

Project No.	SHT2106104902EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21061049003	Model No.	V8S1A11
Start test date	2021-08-13	Finish date	2021-08-13
Temperature	25.1°C	Humidity	52%
Test Engineer	Weiyang Xiang	Auditor	Xiaodong Zheo

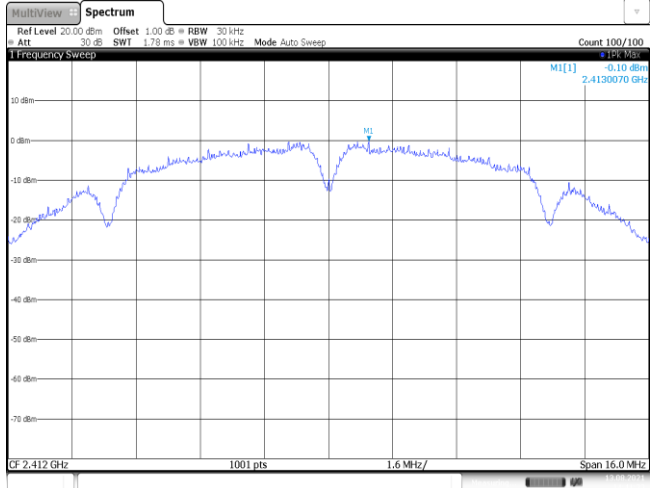
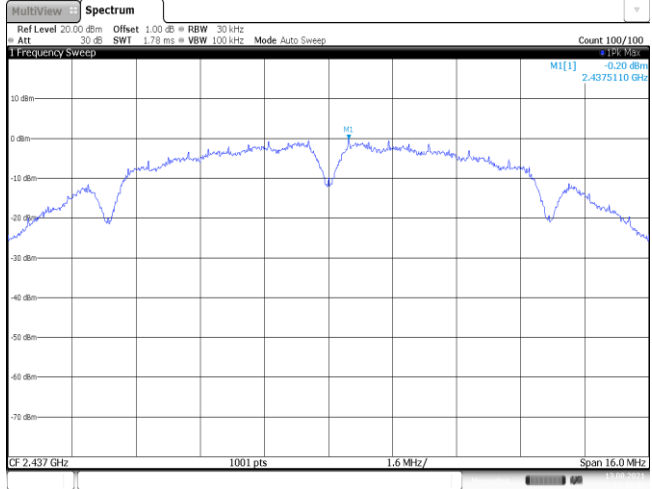
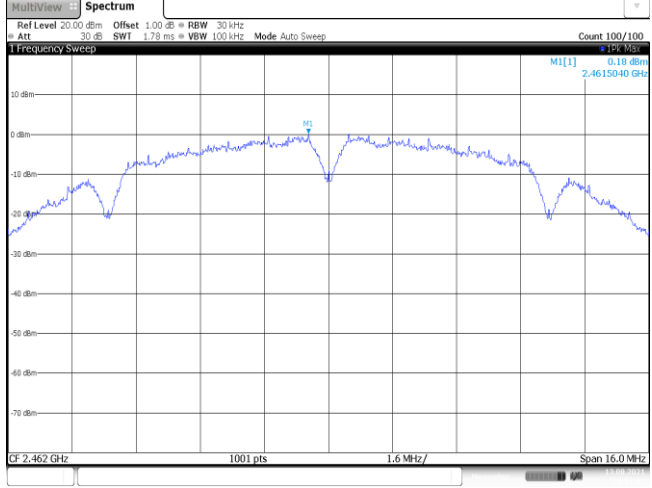
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

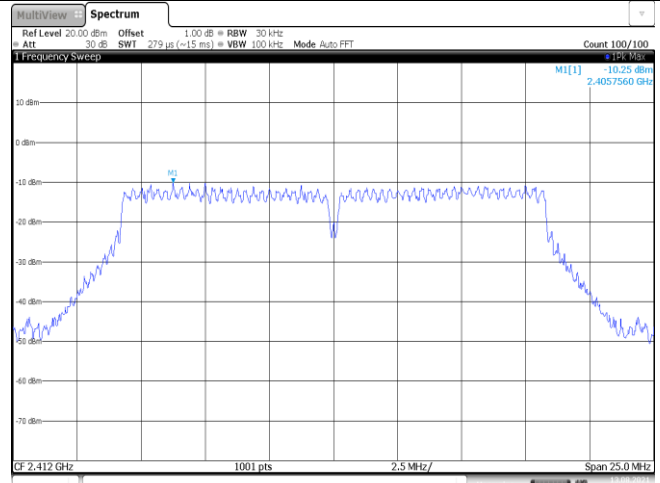
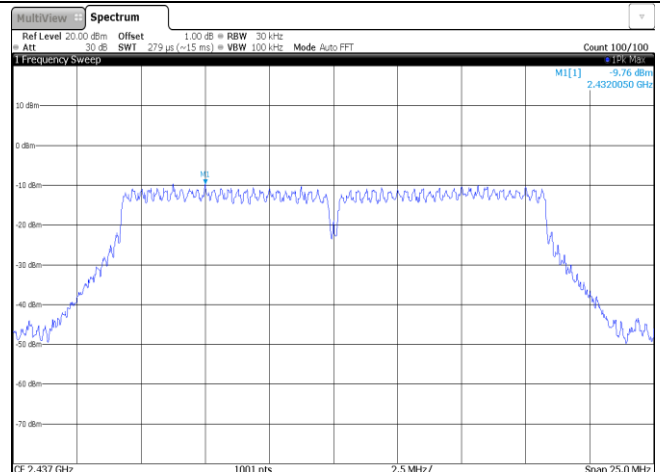
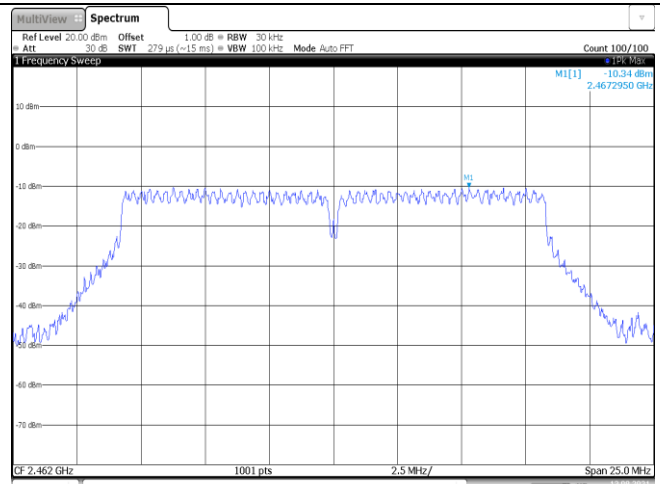
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	15.36	12.92	≤ 30.00	Pass
	06	15.12	12.68		
	11	15.29	12.82		
802.11g	01	15.24	12.95	≤ 30.00	Pass
	06	15.02	12.73		
	11	15.17	12.88		
802.11n (HT20)	01	15.29	12.88	≤ 30.00	Pass
	06	15.06	12.70		
	11	15.19	12.80		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-0.10	≤8.00	Pass
	06	-0.20		
	11	0.18		
802.11g	01	-10.25	≤8.00	Pass
	06	-9.76		
	11	-10.34		
802.11n(HT20)	01	-10.03	≤8.00	Pass
	06	-10.76		
	11	-10.09		

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] -0.10 dBm 2.4130070 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 13.AUG.2021 14:41:23</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] -0.20 dBm 2.4375110 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 13.AUG.2021 14:46:40</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] 0.18 dBm 2.4615040 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 13.AUG.2021 14:41:45</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] -10.25 dBm 2.4057560 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 14:58:00</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] -9.76 dBm 2.4320050 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 15:02:41</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] -10.34 dBm 2.4672950 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 15:07:22</p>

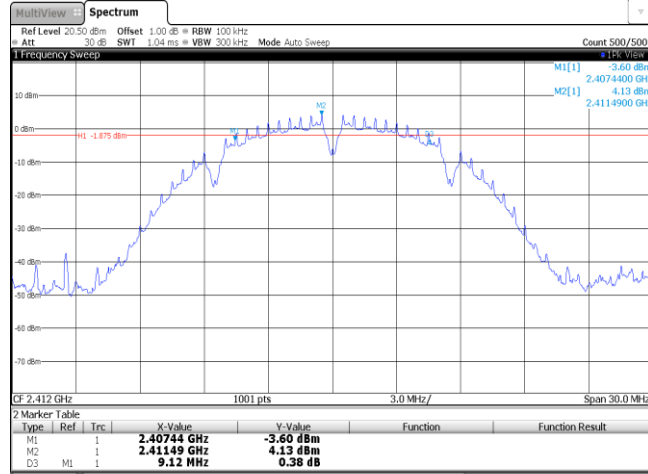
Type:	802.11n(HT20)
CH01	<p> Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -10.03 dBm 2.4057310 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 15:41:28 </p>
CH06	<p> Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -10.76 dBm 2.4423700 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 15:45:25 </p>
CH11	<p> 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 MI[1] -10.09 dBm 2.4669700 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 13.AUG.2021 15:49:02 </p>

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.12	≥0.5	Pass
	06	9.12		
	11	9.12		
802.11g	01	16.44	≥0.5	Pass
	06	16.41		
	11	16.41		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.64		
	11	17.64		

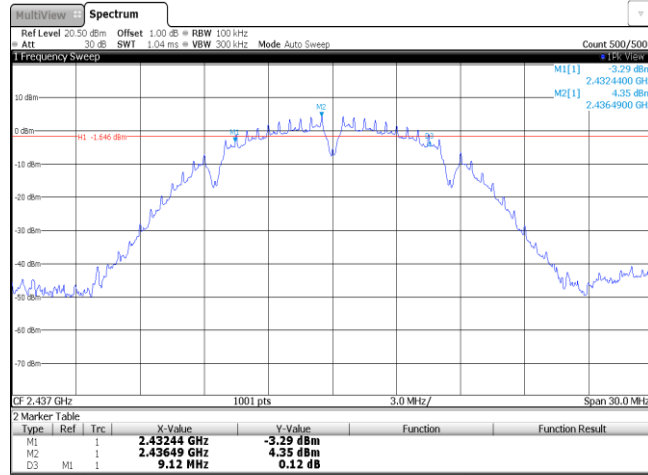
Type: **802.11 b**

CH01



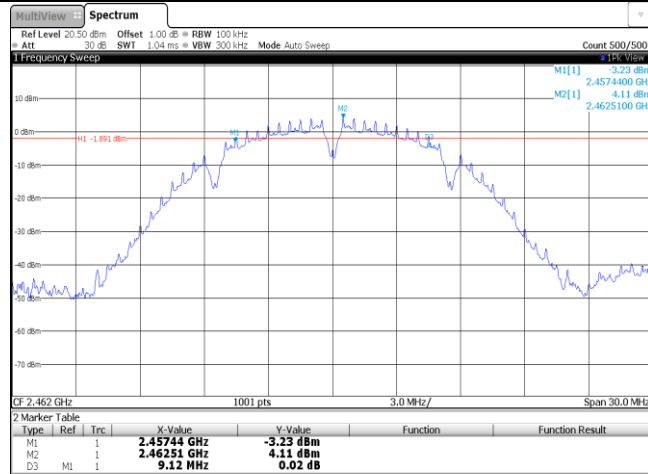
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CH06

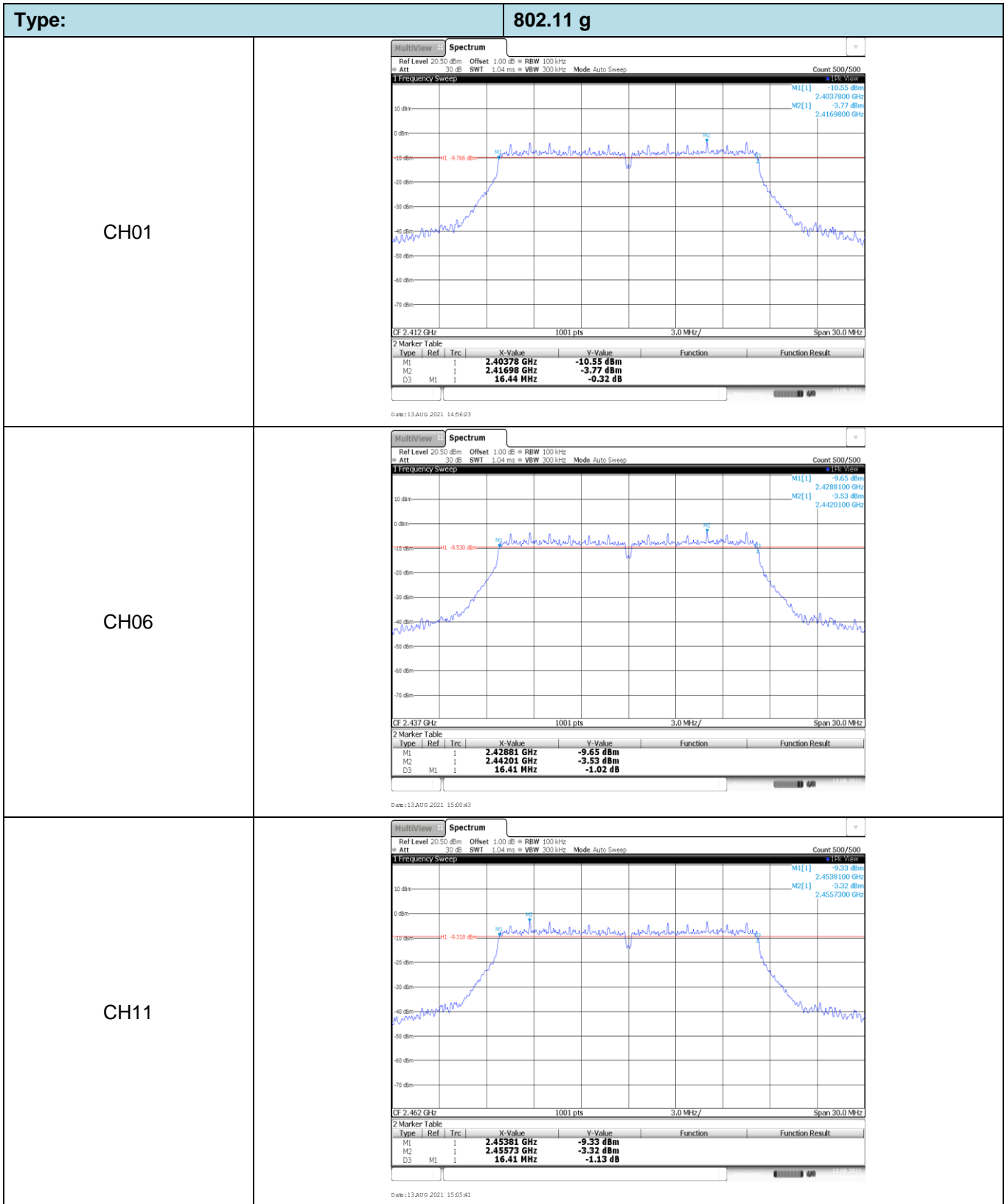


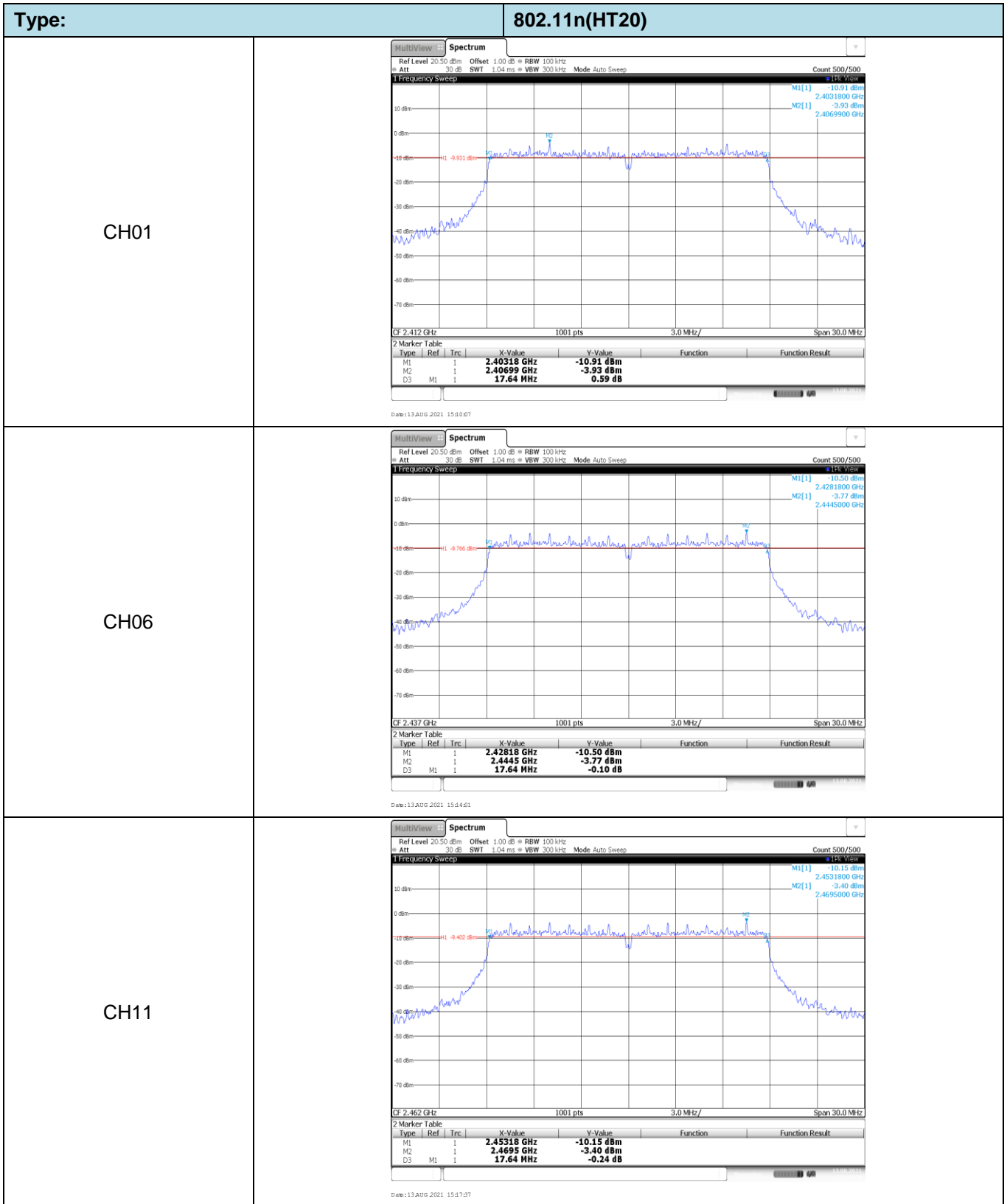
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CH11



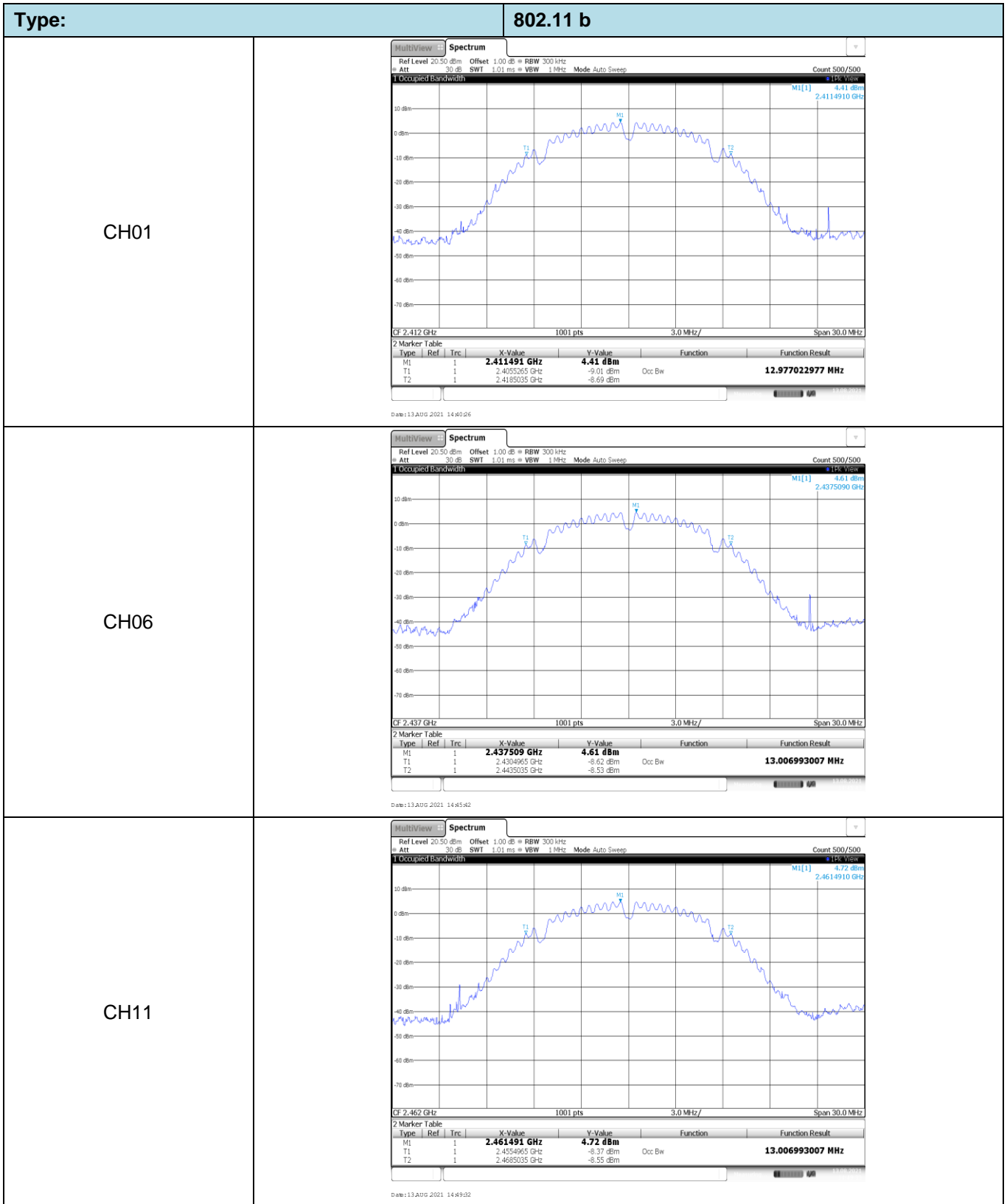
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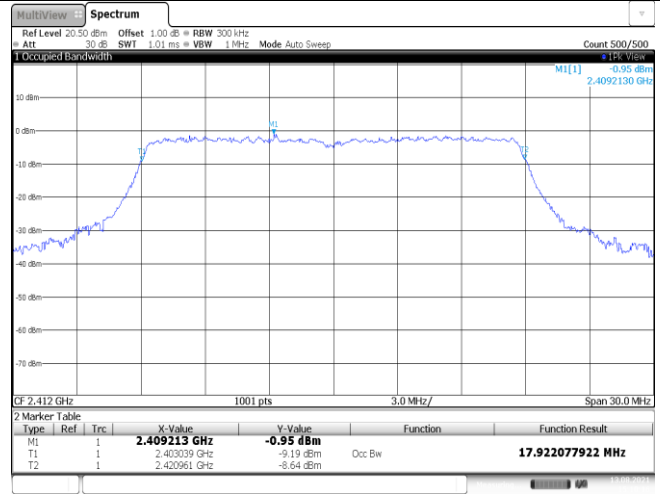
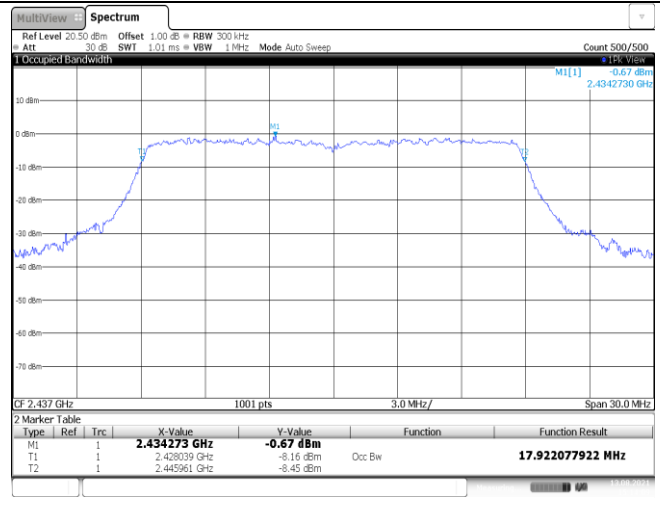
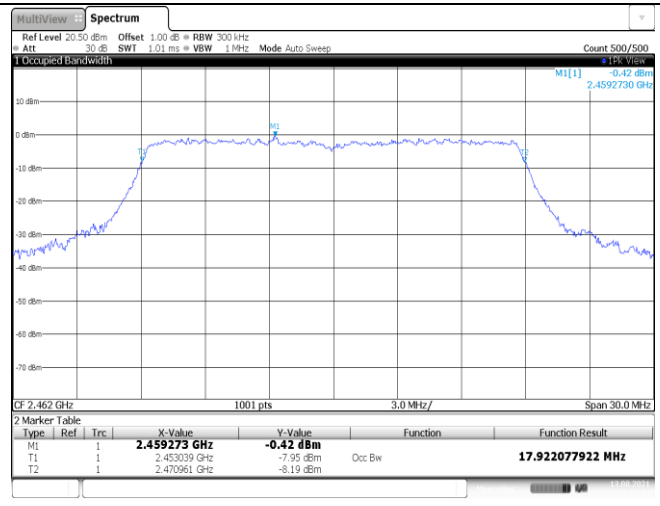


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.98	-	Pass
	06	13.01		
	11	13.01		
802.11g	01	17.05	-	Pass
	06	17.05		
	11	17.05		
802.11n(HT20)	01	17.92	-	Pass
	06	17.92		
	11	17.92		

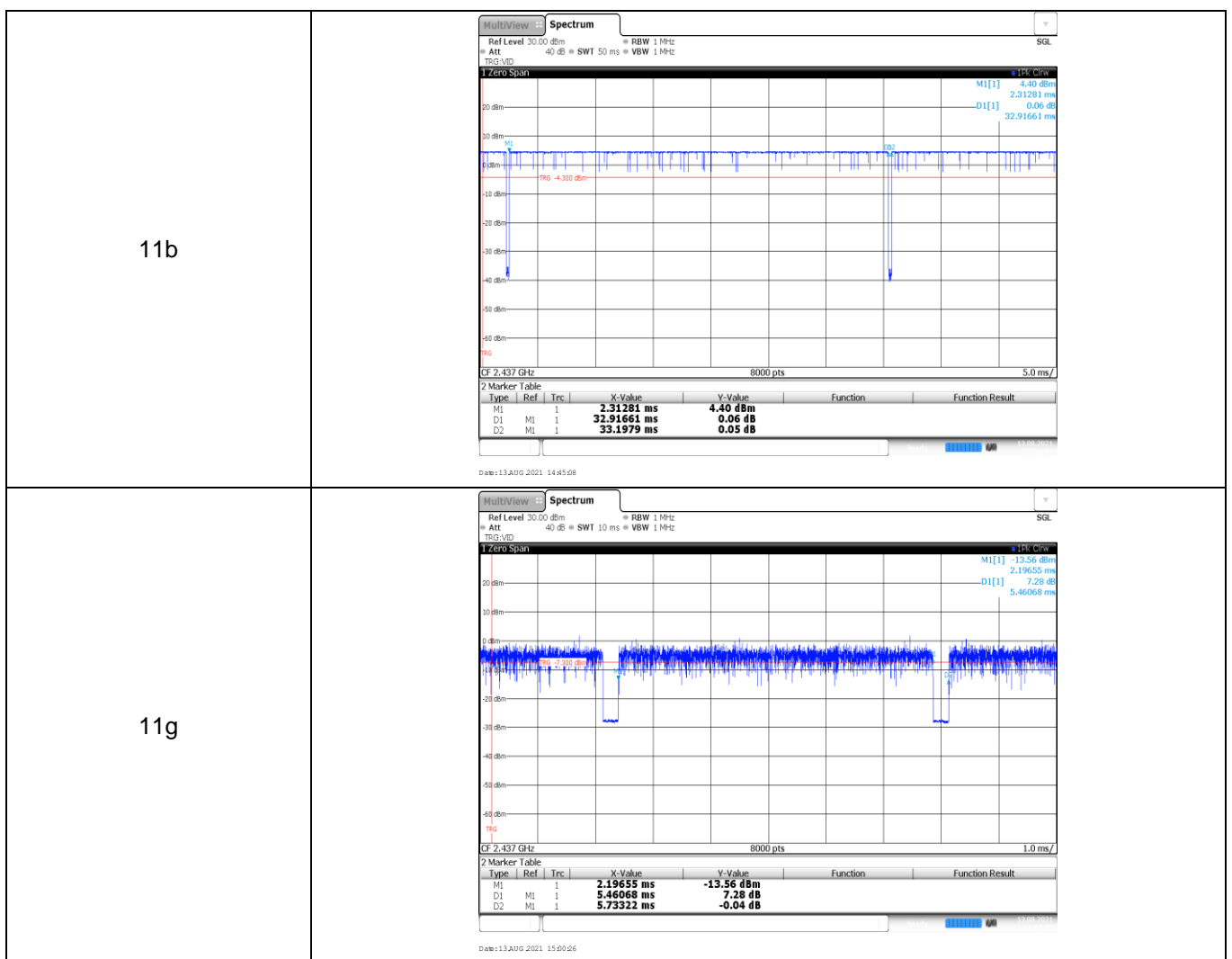


Type:	802.11 g																												
CH01	<p>MultiView Spectrum</p> <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth</p> <p>M1[1] 0.84 dBm 2.415536 GHz</p> <p>2 Marker Table</p> <table border="1"> <thead> <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>2.415536 GHz</td> <td>-0.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4034385 GHz</td> <td>-9.67 dBm</td> <td>Occ Bw</td> <td>17.052947053 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4205315 GHz</td> <td>-8.81 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 14:56:32</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.415536 GHz	-0.84 dBm			T1	1		2.4034385 GHz	-9.67 dBm	Occ Bw	17.052947053 MHz	T2	1		2.4205315 GHz	-8.81 dBm		
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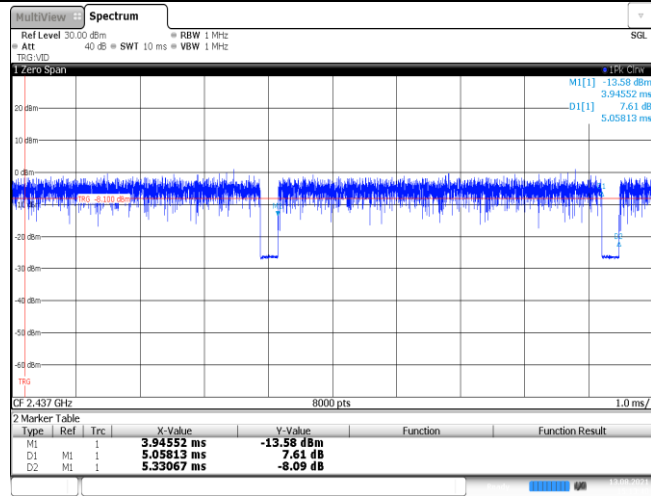
Type:	802.11n(HT20)																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>1 Occupied Bandwidth M1[1] 0.95 dBm 2.4092130 GHz</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <thead> <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>2.409213 GHz</td> <td>-0.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.403039 GHz</td> <td>-9.19 dBm</td> <td>Occ Bw</td> <td>17.922077922 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.420961 GHz</td> <td>-8.64 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 15:40:46</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.409213 GHz	-0.95 dBm			T1	1		2.403039 GHz	-9.19 dBm	Occ Bw	17.922077922 MHz	T2	1		2.420961 GHz	-8.64 dBm		
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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>1 Occupied Bandwidth M1[1] 0.67 dBm 2.4342730 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>2.434273 GHz</td> <td>-0.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.428039 GHz</td> <td>-8.16 dBm</td> <td>Occ Bw</td> <td>17.922077922 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.445961 GHz</td> <td>-8.45 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 15:44:59</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.434273 GHz	-0.67 dBm			T1	1		2.428039 GHz	-8.16 dBm	Occ Bw	17.922077922 MHz	T2	1		2.445961 GHz	-8.45 dBm		
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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>1 Occupied Bandwidth M1[1] 0.42 dBm 2.4592730 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>2.459273 GHz</td> <td>-0.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.453039 GHz</td> <td>-7.95 dBm</td> <td>Occ Bw</td> <td>17.922077922 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.470961 GHz</td> <td>-8.19 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 15:47:46</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.459273 GHz	-0.42 dBm			T1	1		2.453039 GHz	-7.95 dBm	Occ Bw	17.922077922 MHz	T2	1		2.470961 GHz	-8.19 dBm		
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T2	1		2.470961 GHz	-8.19 dBm																									

Appendix E: Duty Cycle

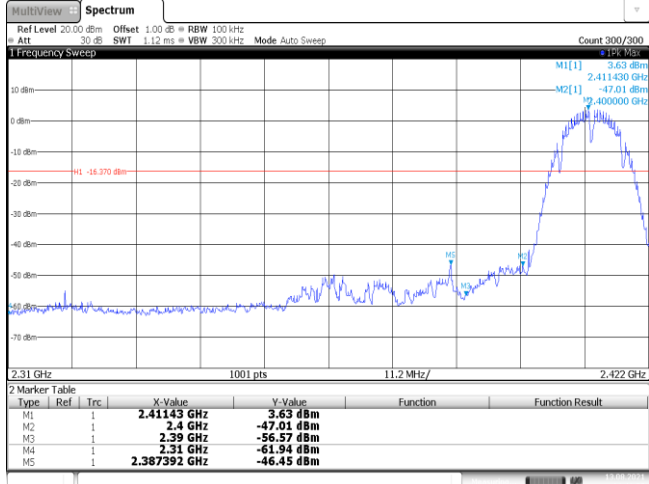
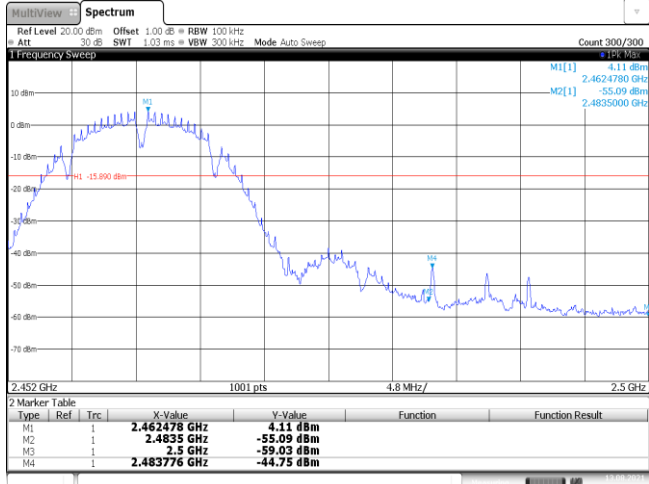
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	32.92	33.20	99.2%	0.0
11g	2437	5.46	5.73	95.3%	0.2
11n20	2437	5.06	5.33	94.9%	0.2

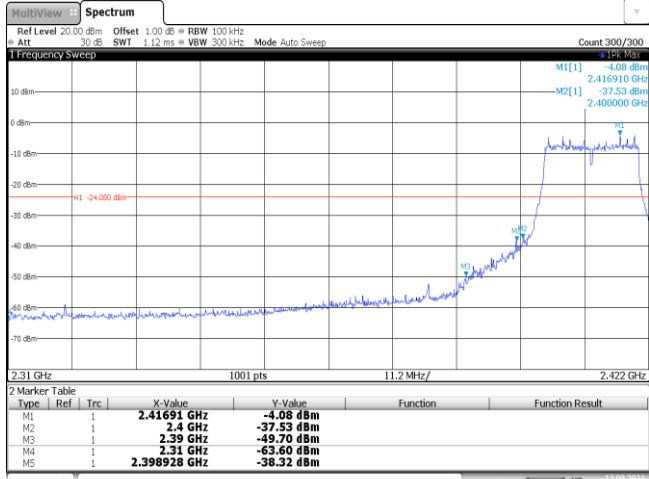
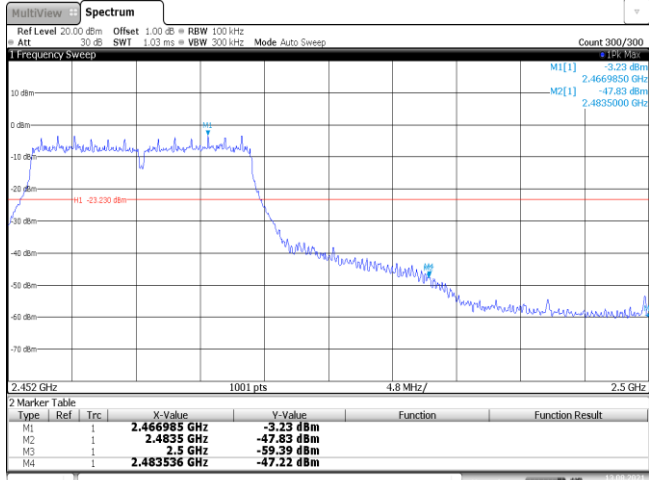


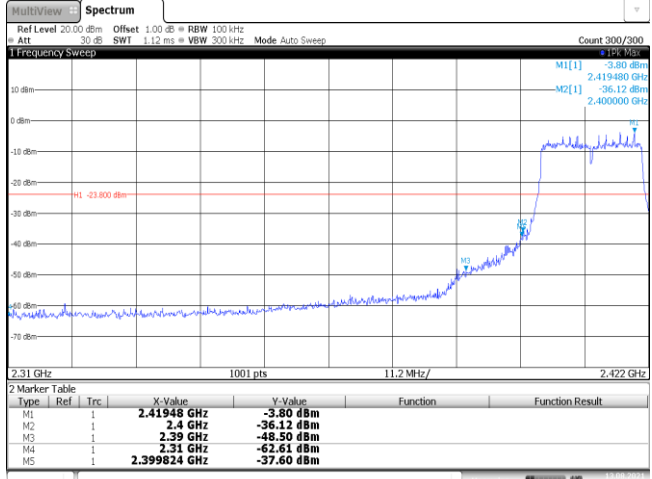
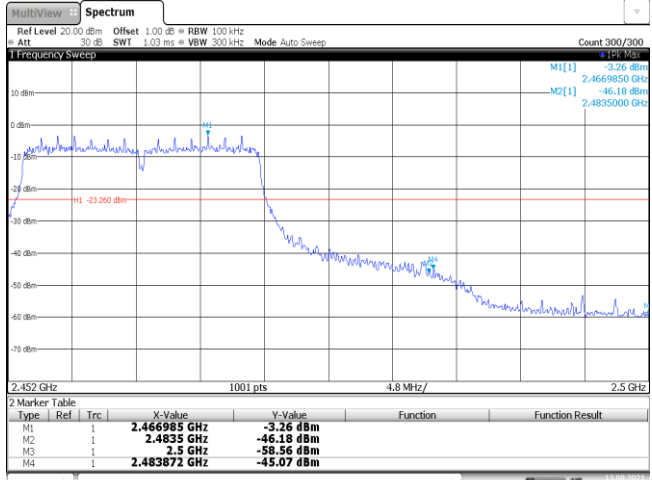
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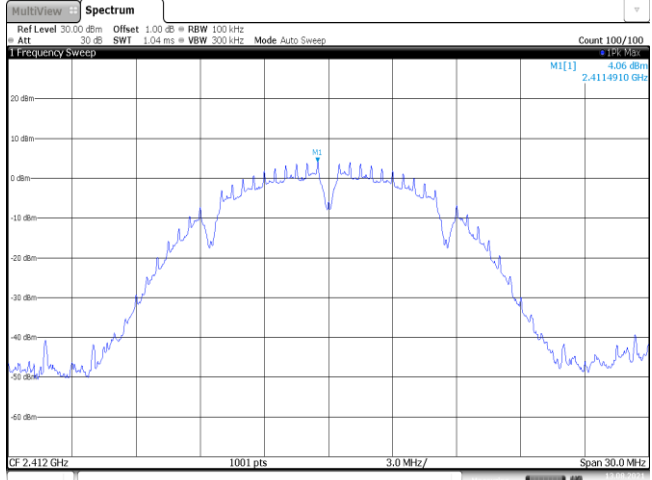
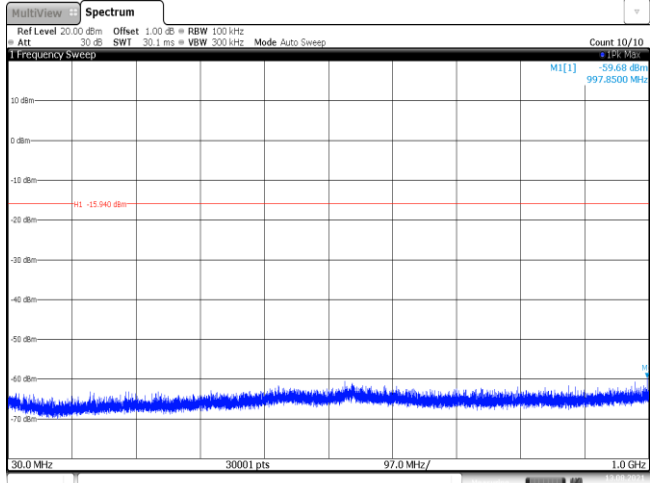
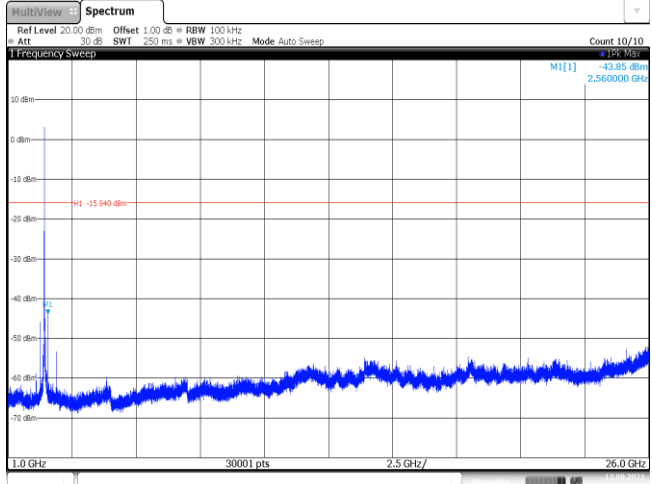


Appendix F: Band edge and Spurious Emissions (conducted)

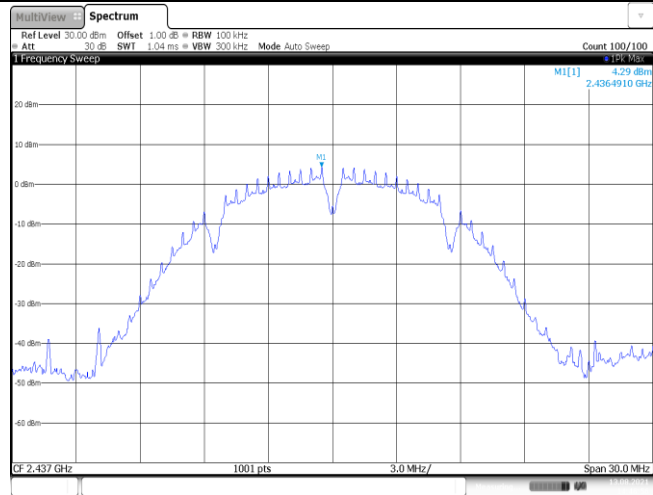
Test Item:	Bandedge	Type:	802.11 b																																										
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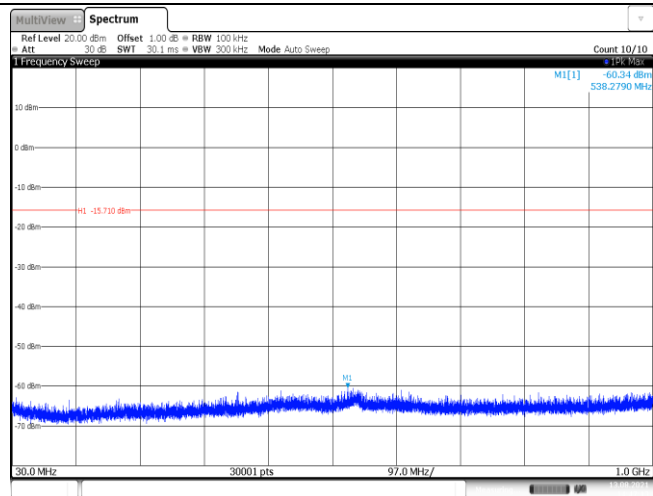
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01		 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</p> <table border="1"> <thead> <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>2.41948 GHz</td> <td>-3.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-36.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-48.50 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-37.60 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 15:41:42</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41948 GHz	-3.80 dBm			M2	1		2.4 GHz	-36.12 dBm			M3	1		2.39 GHz	-48.50 dBm			M4	1		2.31 GHz	-62.61 dBm			M5	1		2.399824 GHz	-37.60 dBm			
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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>2.466985 GHz</td> <td>-3.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-46.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-58.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483872 GHz</td> <td>-45.07 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.AUG.2021 15:49:22</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.466985 GHz	-3.26 dBm			M2	1		2.4835 GHz	-46.18 dBm			M3	1		2.5 GHz	-58.56 dBm			M4	1		2.483872 GHz	-45.07 dBm										
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Test Item:	SE	Type:	802.11 b
<p>CH01 Reference level</p>		 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 4.06 dBm 2.4114910 GHz Date: 13 AUG 2021 14:41:54</p>	
<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 MI[1] -59.68 dBm 997.8500 MHz M1 -15.940 dBm Date: 13 AUG 2021 14:42:10</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 MI[1] -43.85 dBm 2.560000 GHz M1 -15.940 dBm Date: 13 AUG 2021 14:42:36</p>	

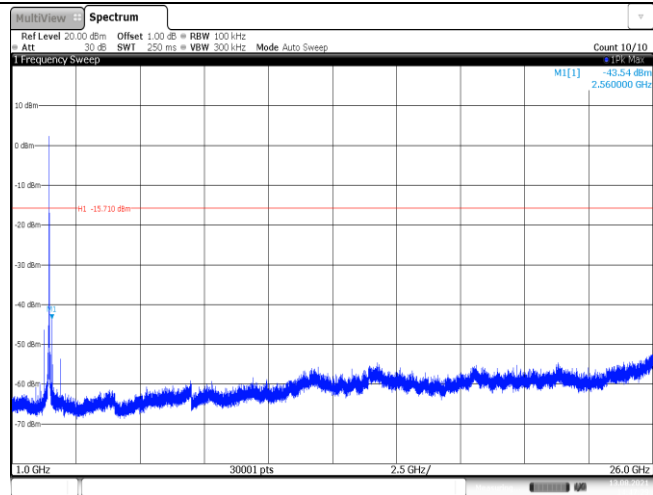
CH06
Reference level



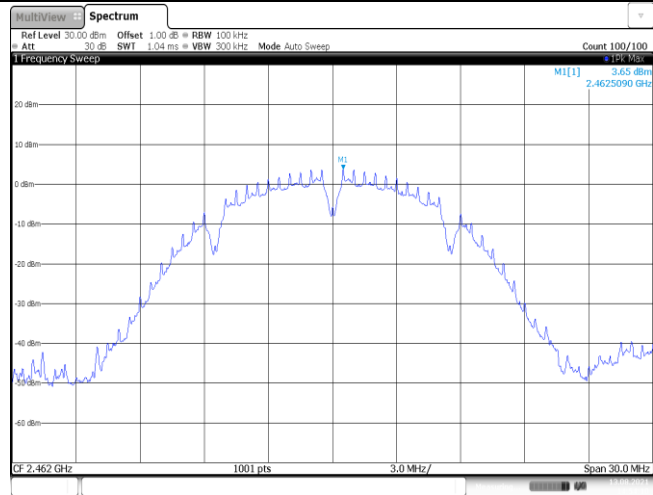
CH06
30MHz~1000MHz



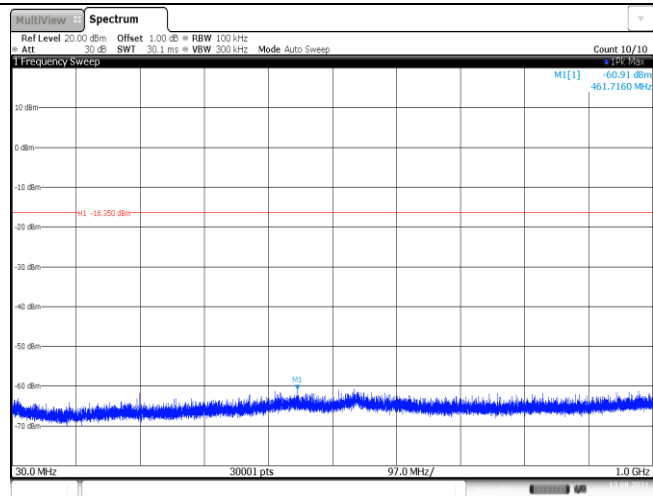
CH06
1GHz~26GHz



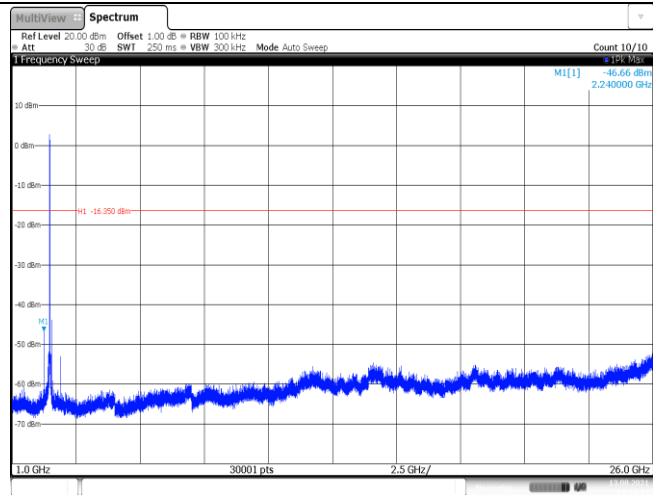
CH11
Reference level



CH11
30MHz~1000MHz

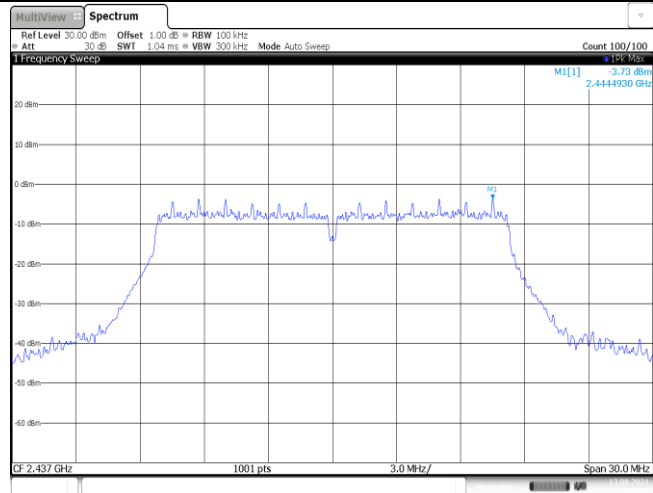


CH11
1GHz~26GHz



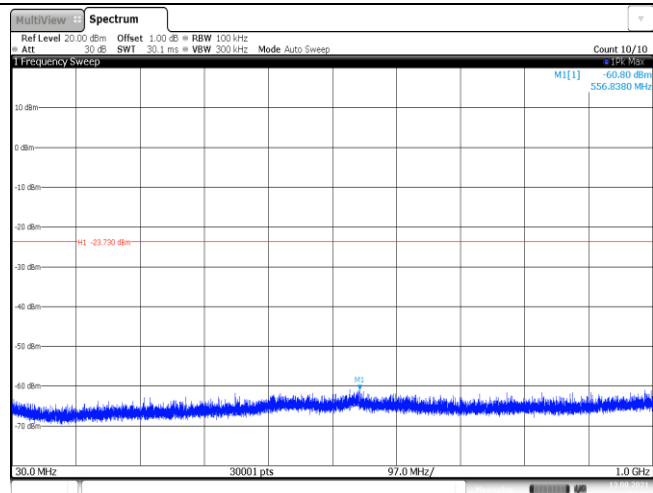
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<p>CH01 1GHz~26GHz</p>			

CH06
Reference level



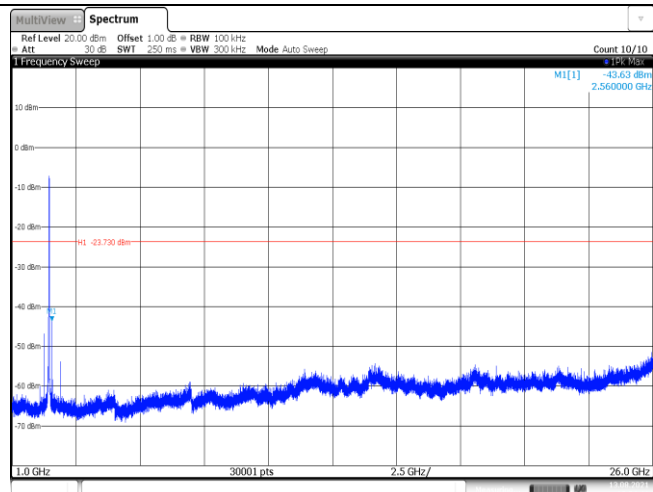
Date: 13 AUG 2021 15:04:29

CH06
30MHz~1000MHz



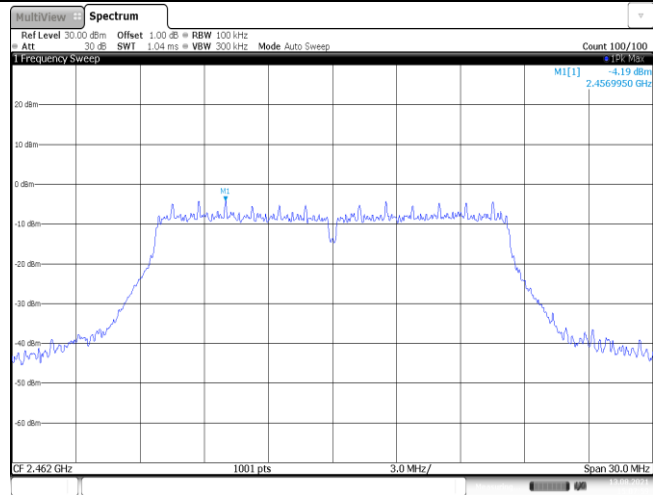
Date: 13 AUG 2021 15:04:25

CH06
1GHz~26GHz



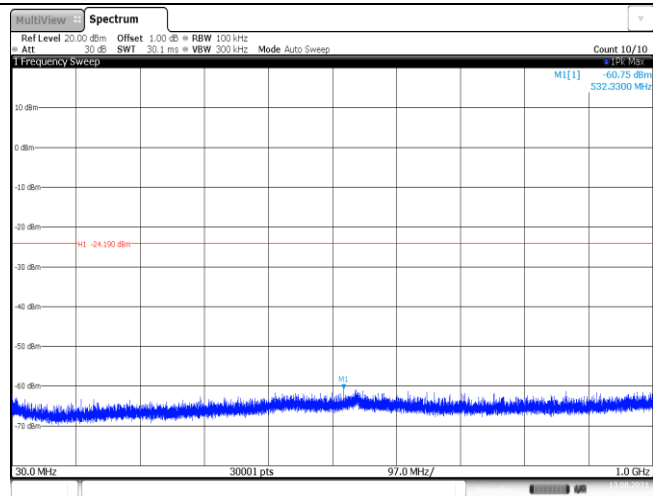
Date: 13 AUG 2021 15:04:41

CH11
Reference level



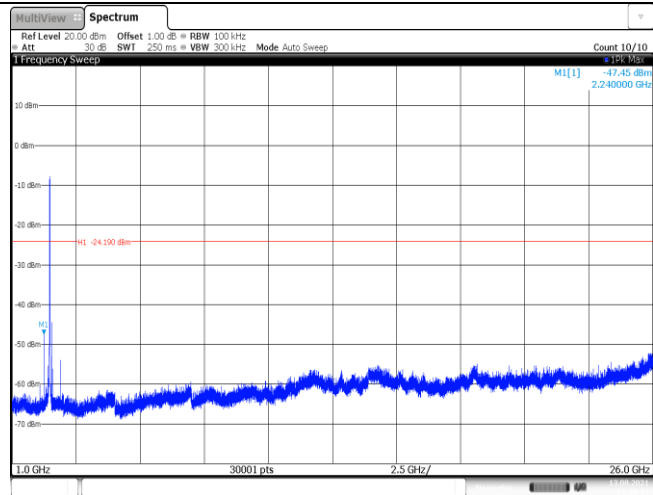
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CH11
30MHz~1000MHz

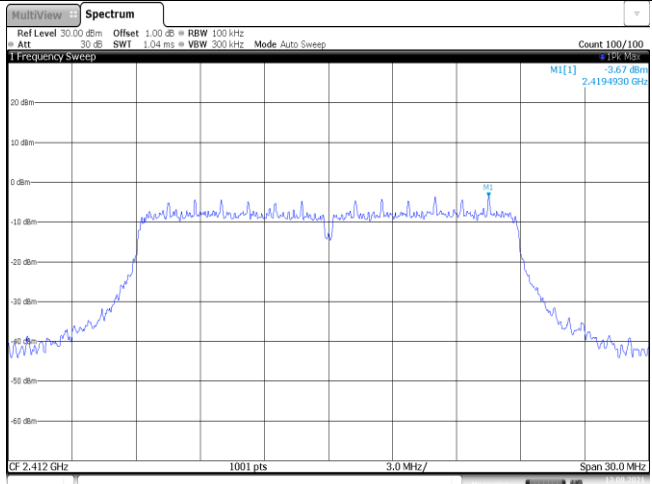
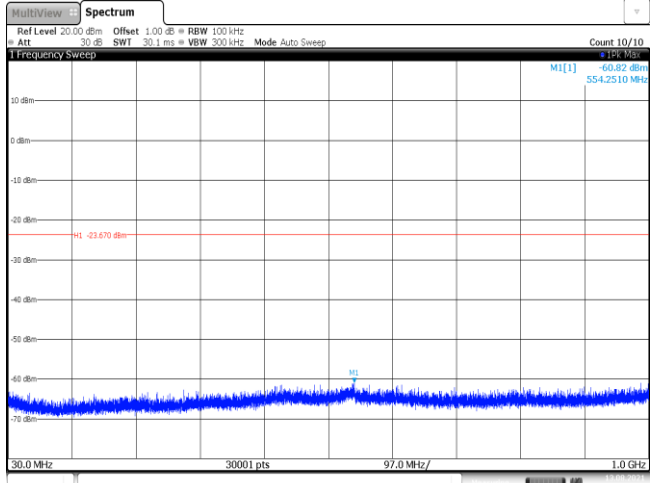
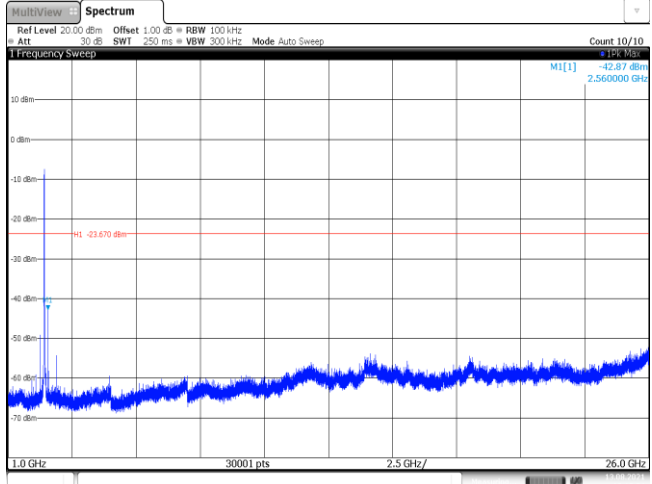


Date: 13 AUG 2021 15:08:04

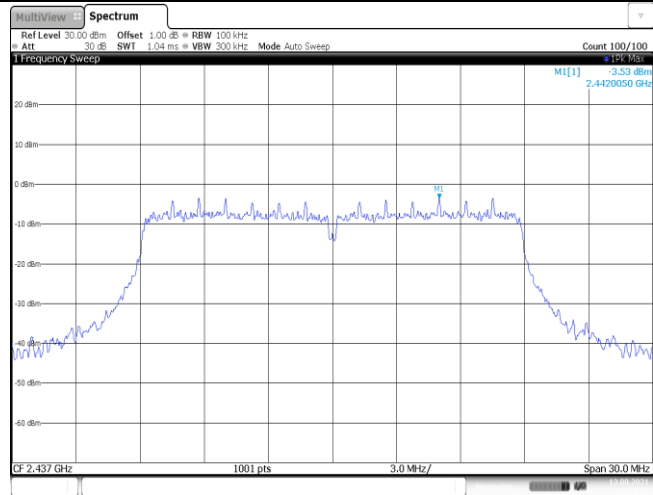
CH11
1GHz~26GHz



Date: 13 AUG 2021 15:08:21

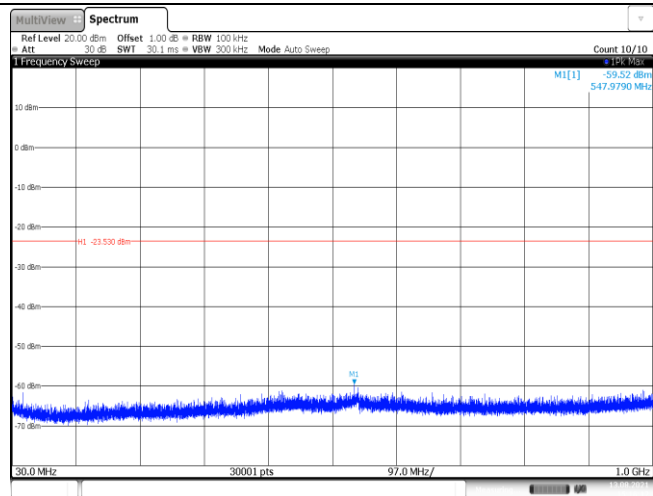
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<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

CH06
Reference level



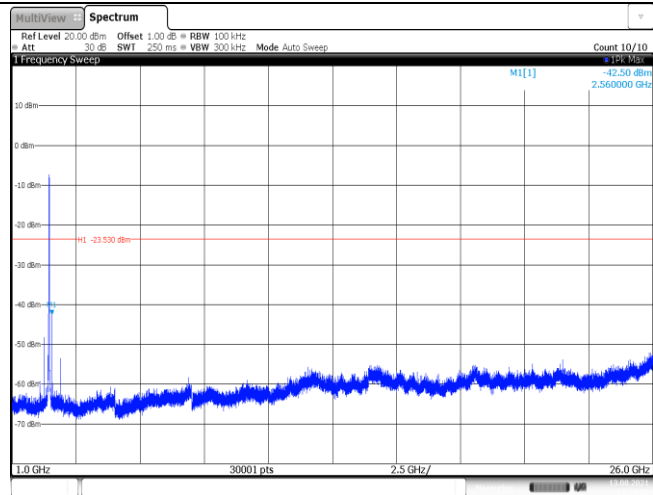
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CH06
30MHz~1000MHz



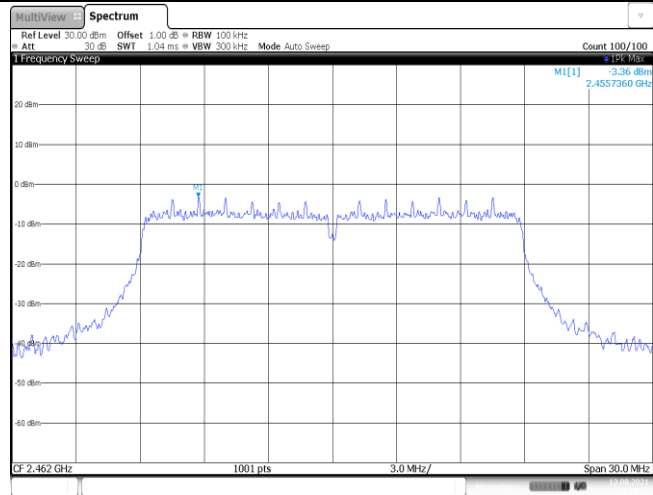
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CH06
1GHz~26GHz



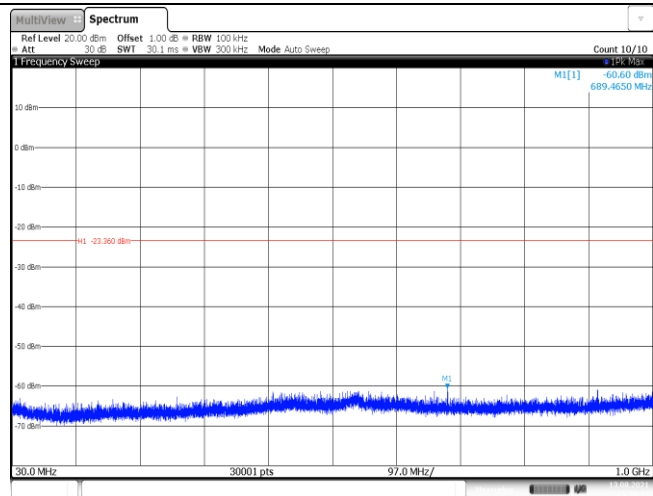
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CH11
Reference level



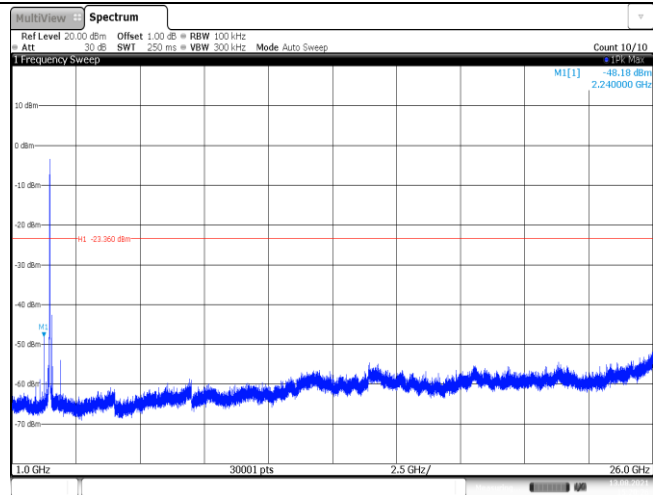
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CH11
30MHz~1000MHz



Date:13 AUG 2021 15:20:20

CH11
1GHz~26GHz



Date:13 AUG 2021 15:20:26

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