

APPENDIX REPORT

Project No.	SHT2302000902EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT23020009001	Model No.	8A.04.9.024.8320
Start test date	2023-2-08	Finish date	2023-2-09
Temperature	22.9℃	Humidity	67%
Test Engineer	Xiaoxiao Li	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

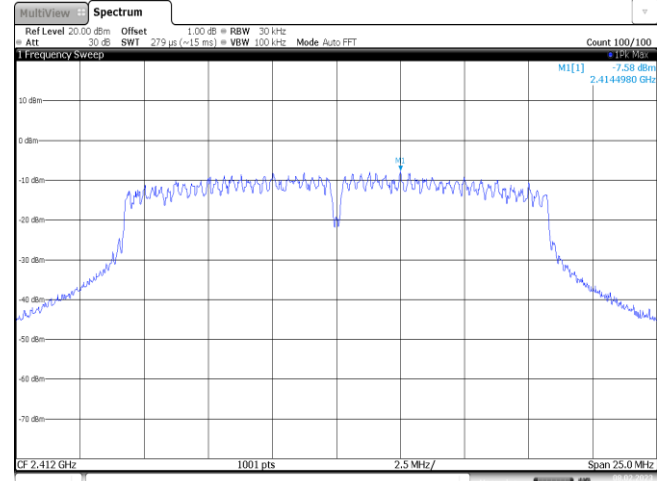
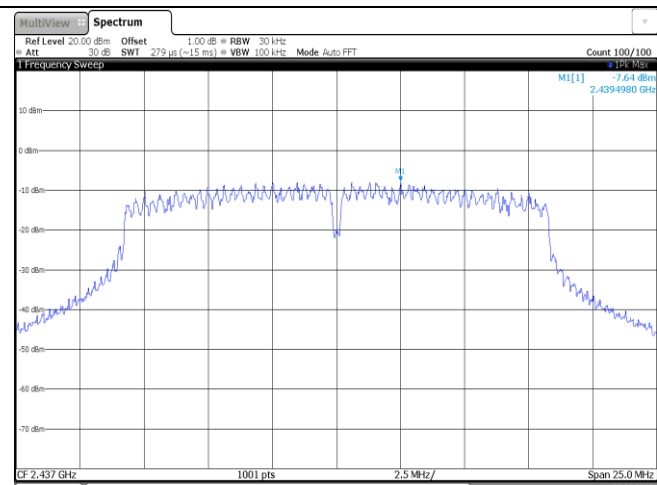
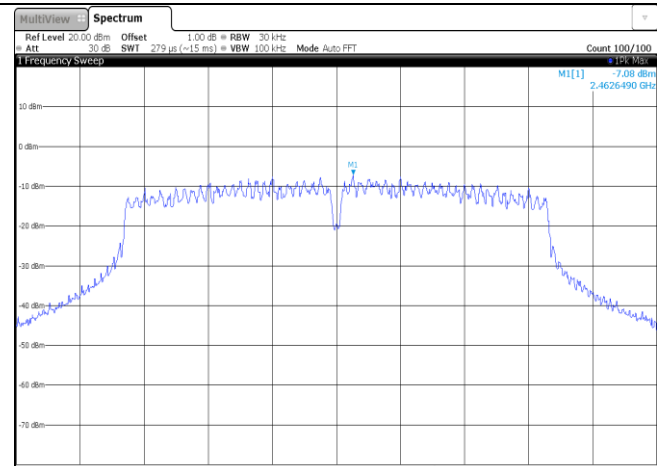
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.35	14.61	≤ 30.00	Pass
	06	15.76	14.02		
	11	15.86	14.13		
802.11g	01	16.49	14.34	≤ 30.00	Pass
	06	16.38	14.26		
	11	16.68	14.50		
802.11n (HT20)	01	16.18	14.05	≤ 30.00	Pass
	06	16.26	14.08		
	11	16.21	14.14		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-1.62	≤8.00	Pass
	06	-2.25		
	11	-2.93		
802.11g	01	-7.58	≤8.00	Pass
	06	-7.64		
	11	-7.08		
802.11n(HT20)	01	-6.46	≤8.00	Pass
	06	-6.30		
	11	-7.49		

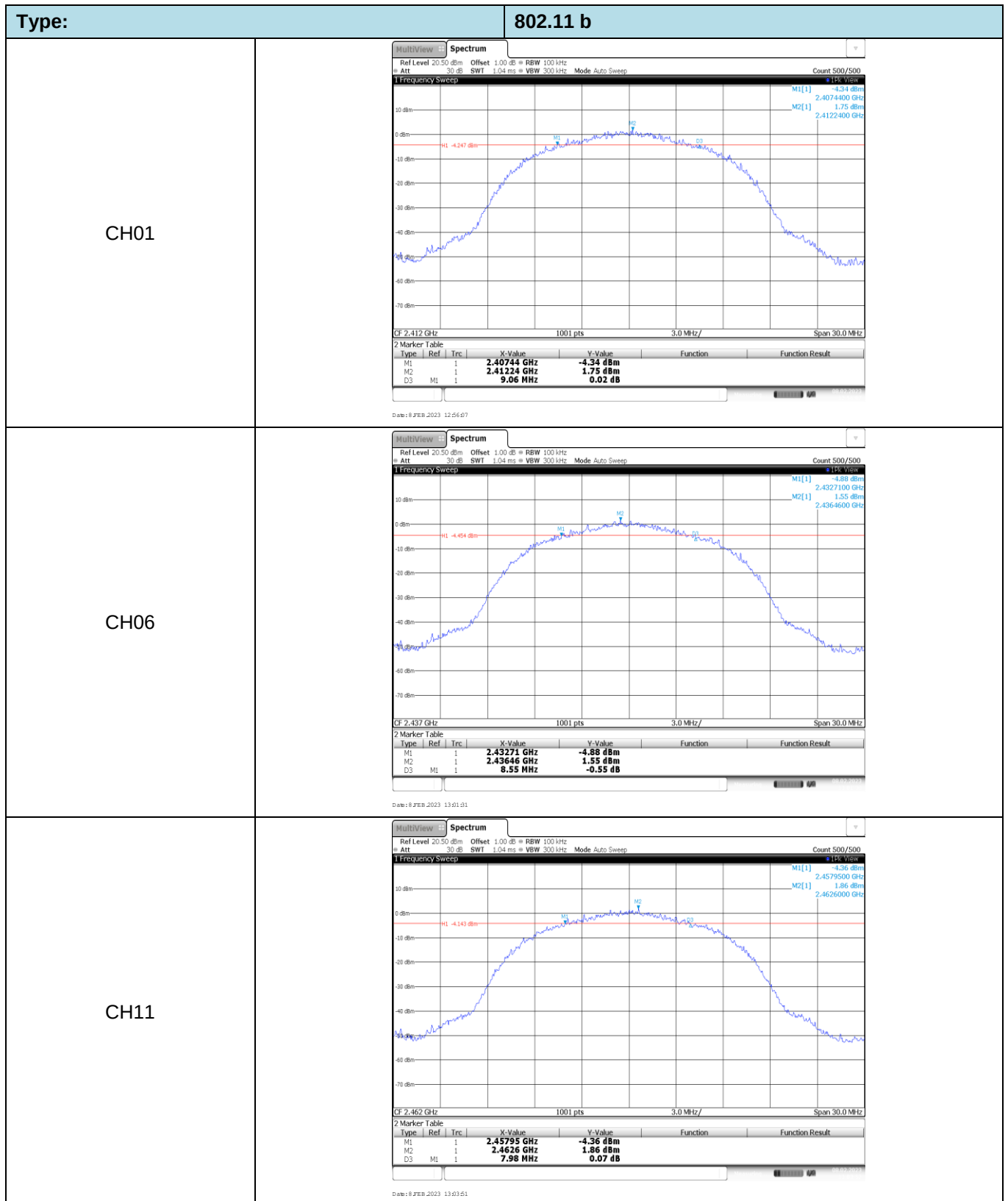
Type:		802.11 b
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] -1.62 dBm 2.4120640 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 9 FEB 2023 12:59:04	
CH06	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] -2.25 dBm 2.4374480 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 9 FEB 2023 13:02:13	
CH11	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWT 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] -2.93 dBm 2.4621120 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 9 FEB 2023 13:04:08	

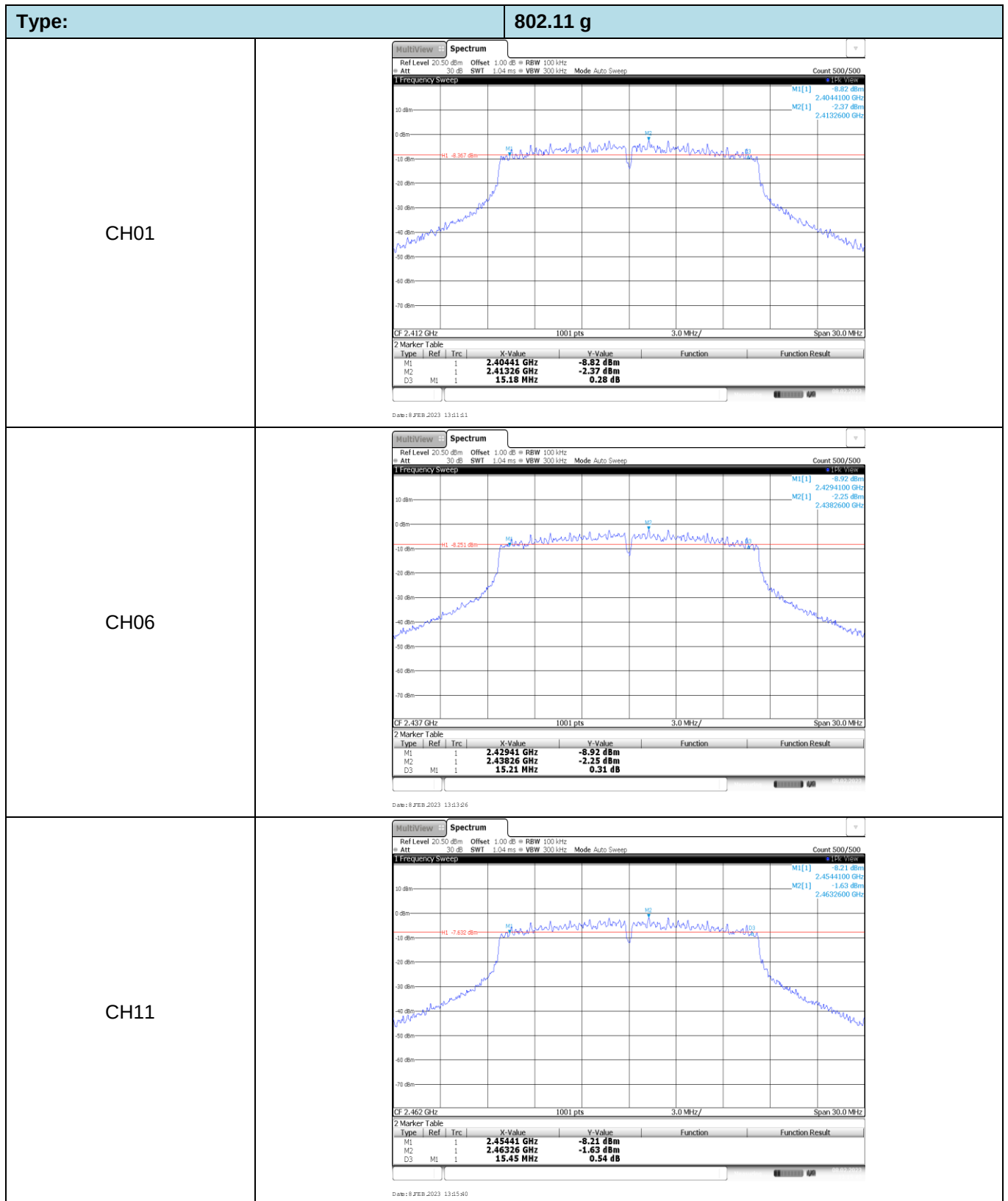
Type:	802.11 g
CH01	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 ATT 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Frequency Sweep M1[1] -7.58 dBm 2.4144980 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 9 FEB 2023 13:01:25
CH06	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 ATT 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Frequency Sweep M1[1] -7.64 dBm 2.4394980 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 9 FEB 2023 13:04:08
CH11	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 ATT 30 dB SWI 279 μs (~15 ms) VBW 100 kHz Mode Auto FFT Frequency Sweep M1[1] -7.69 dBm 2.4626490 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 9 FEB 2023 13:06:24

Type:		802.11n(HT20)
CH01	<	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.06	≥0.5	Pass
	06	8.55		
	11	7.98		
802.11g	01	15.18	≥0.5	Pass
	06	15.21		
	11	15.45		
802.11n(HT20)	01	15.42	≥0.5	Pass
	06	15.75		
	11	15.78		

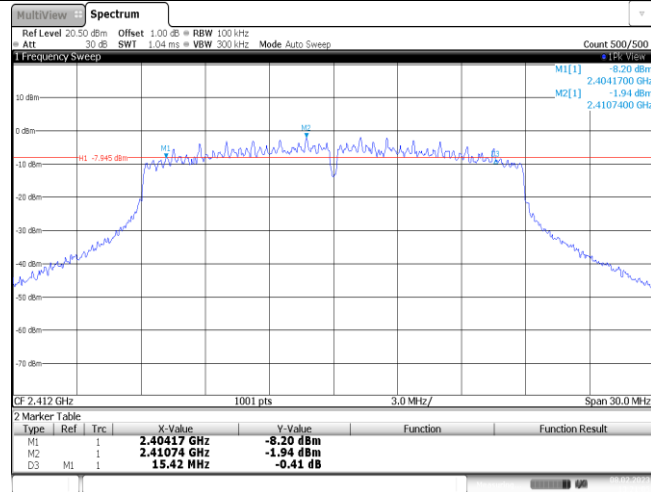




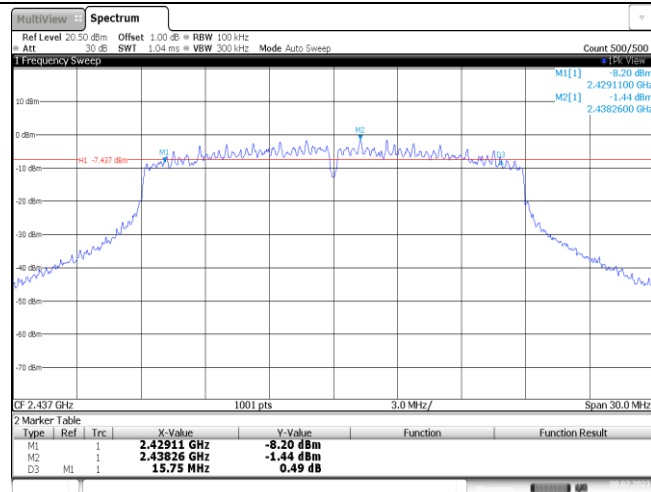
Type:

802.11n(HT20)

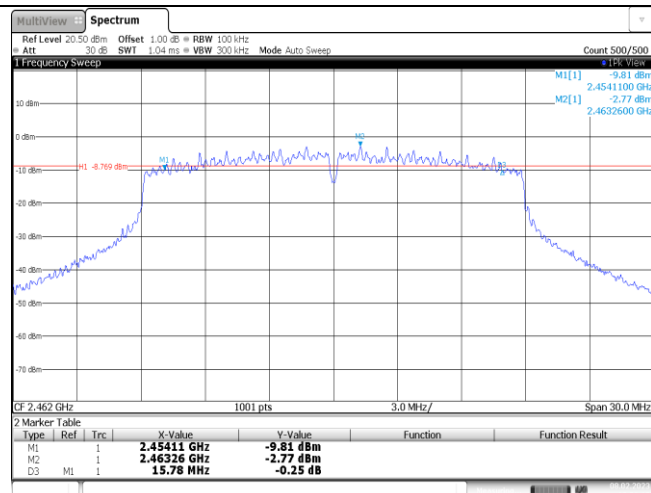
CH01



CH06



CH11



Appendix D: 99% Occupied Bandwidth

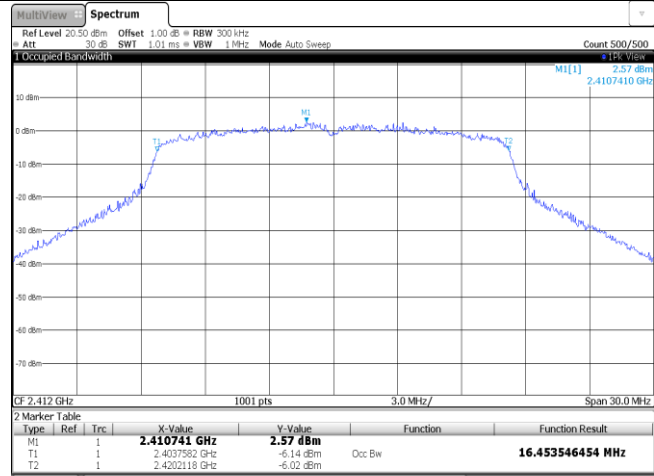
Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	13.85	-	Pass
	06	13.82		
	11	13.85		
802.11g	01	16.45	-	Pass
	06	16.48		
	11	16.48		
802.11n(HT20)	01	17.56	-	Pass
	06	17.59		
	11	17.56		

Type:	802.11 b																												
CH01	MultiView Spectrum 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 1 Occupied Bandwidth 15 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz M1[1] 5.68 dBm 2.4118800 GHz T1 -8.06 dBm 2.4050769 GHz T2 -7.89 dBm 2.4189231 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.41188 GHz</td><td>5.68 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.4050769 GHz</td><td>-8.06 dBm</td><td>Occ BW</td><td>13.846153846 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.4189231 GHz</td><td>-7.89 dBm</td><td></td><td></td></tr></table> Date: 8 FEB 2023 12:56:45	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41188 GHz	5.68 dBm			T1	1		2.4050769 GHz	-8.06 dBm	Occ BW	13.846153846 MHz	T2	1		2.4189231 GHz	-7.89 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.41188 GHz	5.68 dBm																									
T1	1		2.4050769 GHz	-8.06 dBm	Occ BW	13.846153846 MHz																							
T2	1		2.4189231 GHz	-7.89 dBm																									
CH06	MultiView Spectrum 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 1 Occupied Bandwidth 15 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz M1[1] 5.87 dBm 2.4370300 GHz T1 -8.39 dBm 2.4300769 GHz T2 -8.36 dBm 2.4439931 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.43703 GHz</td><td>5.87 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.4300769 GHz</td><td>-8.39 dBm</td><td>Occ BW</td><td>13.816183816 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.4439931 GHz</td><td>-8.36 dBm</td><td></td><td></td></tr></table> Date: 8 FEB 2023 13:01:09	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.43703 GHz	5.87 dBm			T1	1		2.4300769 GHz	-8.39 dBm	Occ BW	13.816183816 MHz	T2	1		2.4439931 GHz	-8.36 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.43703 GHz	5.87 dBm																									
T1	1		2.4300769 GHz	-8.39 dBm	Occ BW	13.816183816 MHz																							
T2	1		2.4439931 GHz	-8.36 dBm																									
CH11	MultiView Spectrum 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 1 Occupied Bandwidth 15 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz M1[1] 5.54 dBm 2.4620300 GHz T1 -8.71 dBm 2.4550769 GHz T2 -8.66 dBm 2.4689231 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.46203 GHz</td><td>5.54 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.4550769 GHz</td><td>-8.71 dBm</td><td>Occ BW</td><td>13.846153846 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.4689231 GHz</td><td>-8.66 dBm</td><td></td><td></td></tr></table> Date: 8 FEB 2023 13:04:00	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.46203 GHz	5.54 dBm			T1	1		2.4550769 GHz	-8.71 dBm	Occ BW	13.846153846 MHz	T2	1		2.4689231 GHz	-8.66 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.46203 GHz	5.54 dBm																									
T1	1		2.4550769 GHz	-8.71 dBm	Occ BW	13.846153846 MHz																							
T2	1		2.4689231 GHz	-8.66 dBm																									

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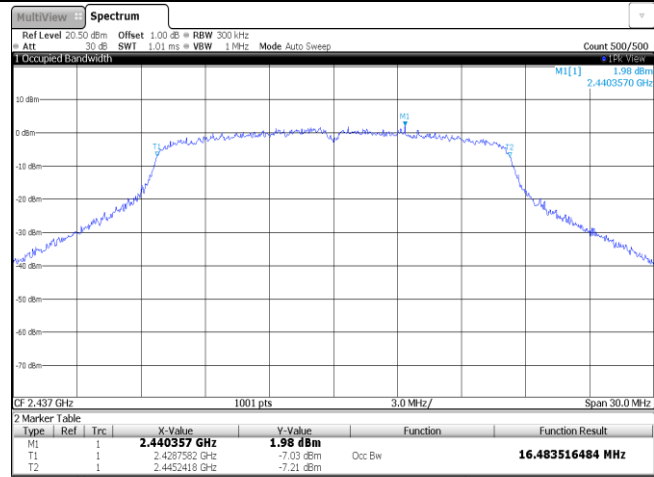
802.11 g

CH01



Date: 9 FEB 2023 13:11:09

CH06



Date: 9 FEB 2023 13:13:04

CH11

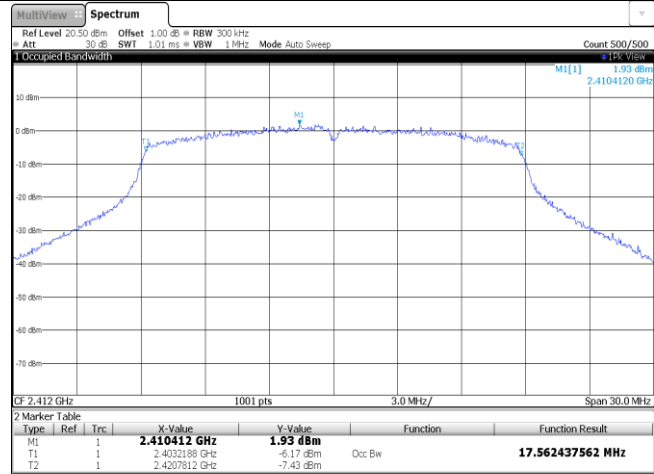


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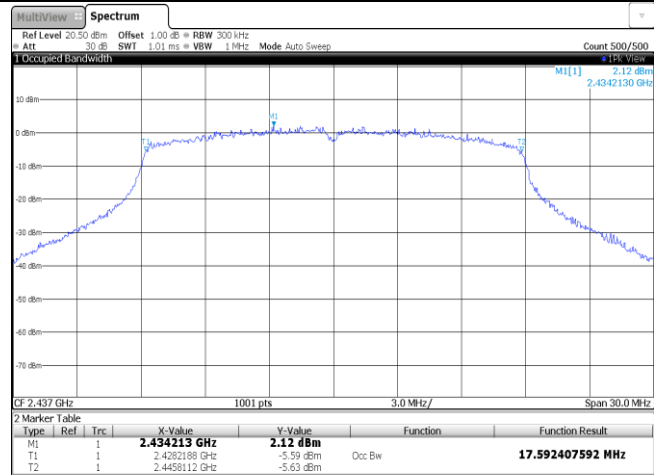
802.11n(HT20)

CH01



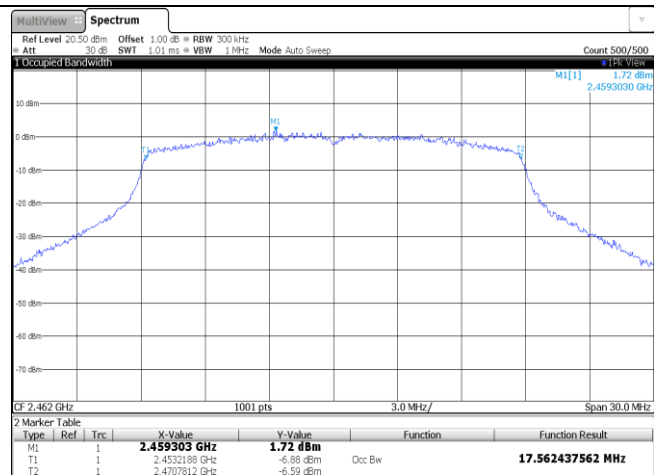
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CH06



Date: 9 FEB 2023 13:24:07

CH11

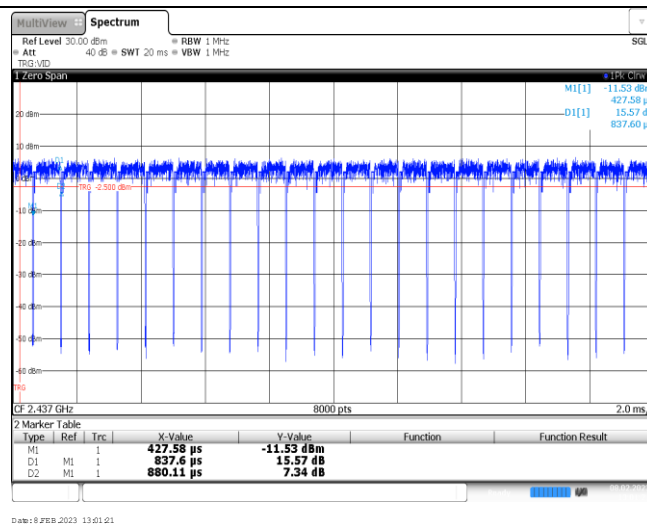


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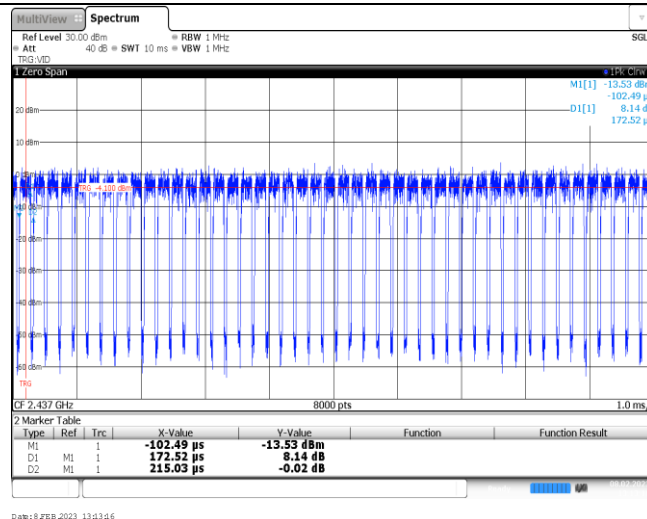
Appendix E: Duty Cycle

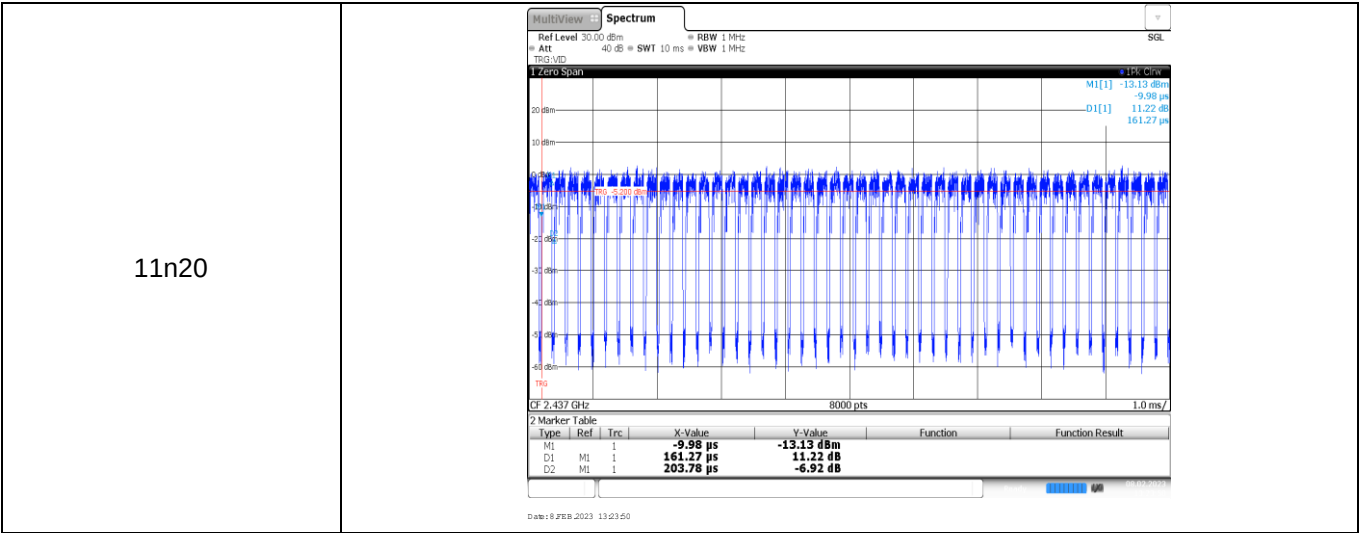
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	0.84	0.88	95.5%	1.2
11g	2437	0.17	0.22	77.3%	5.9
11n20	2437	0.16	0.20	80.0%	6.3

11b



11g



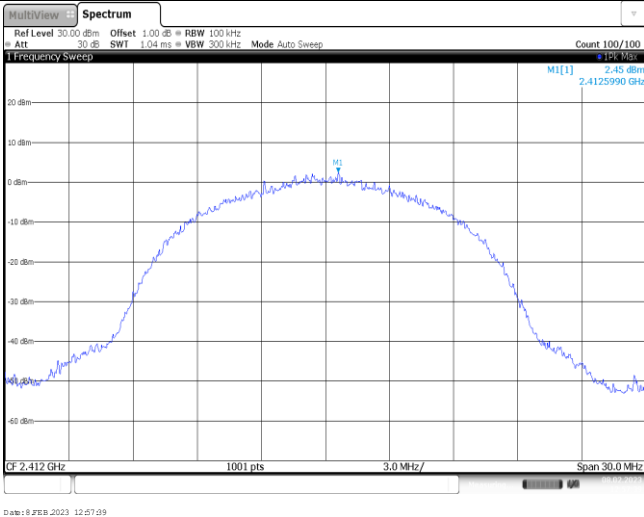
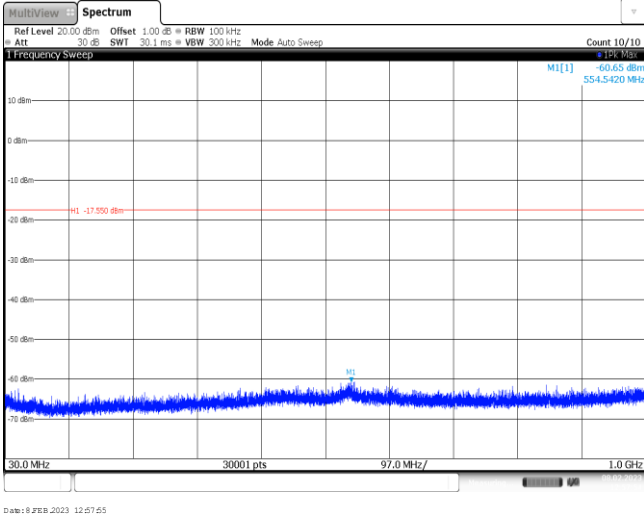
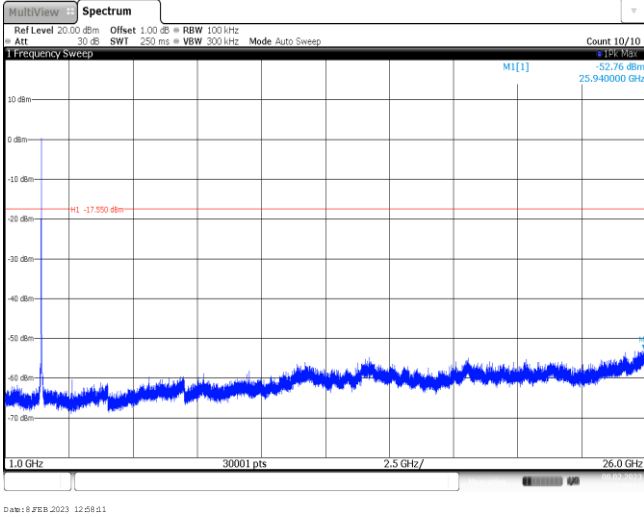


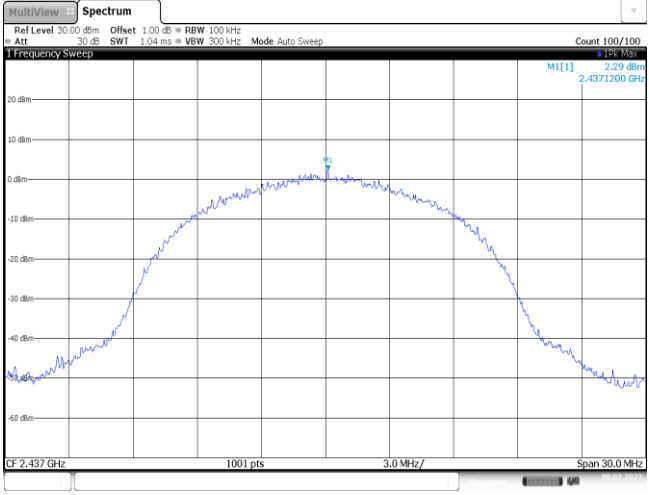
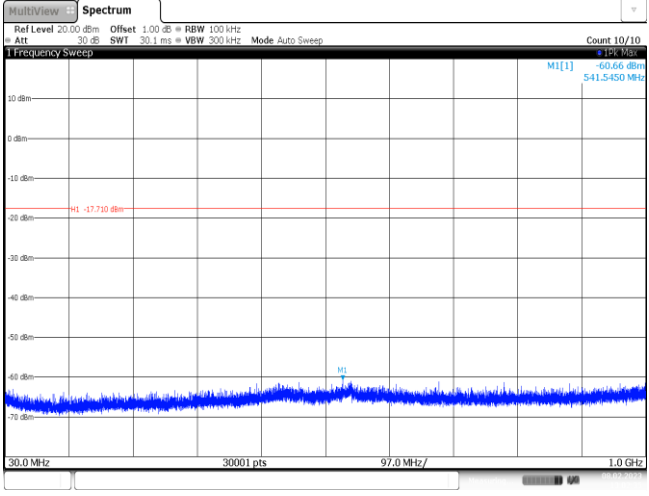
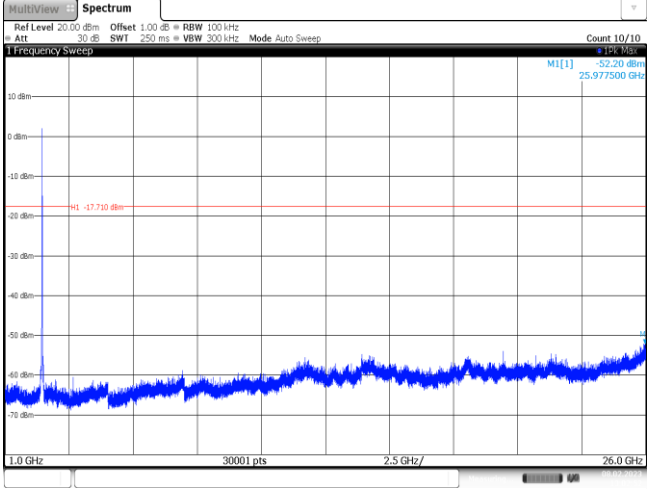
Appendix F: Band edge and Spurious Emissions (conducted)

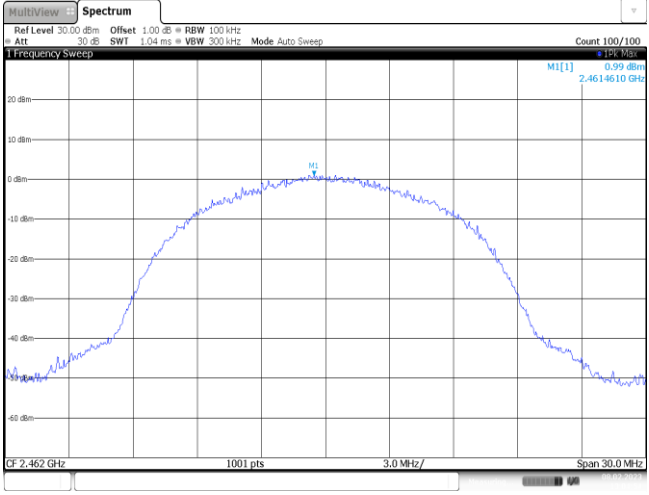
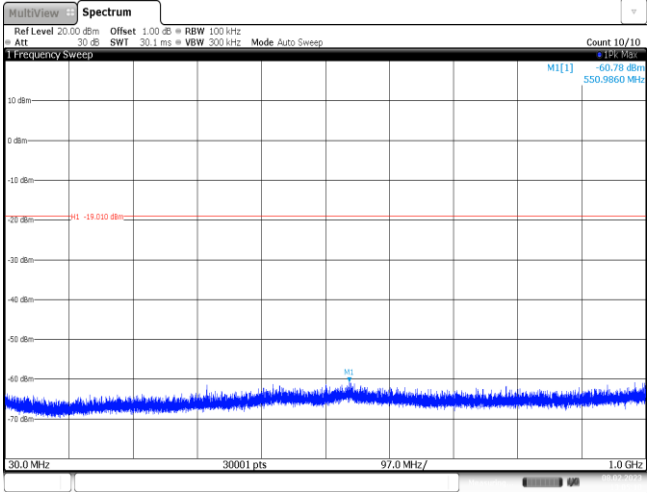
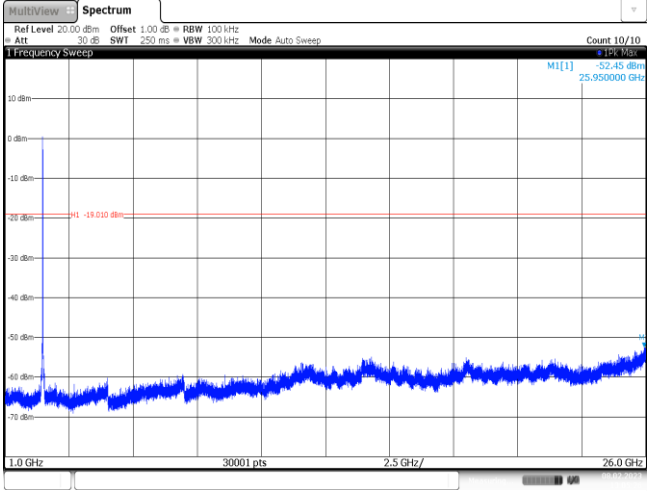
Test Item:	Bandedge	Type:	802.11 b
CH01			

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	MultiView Spectrum 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 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz M1[1] 1.97 dBm 2.413220 GHz M2[1] -36.54 dBm 2.400000 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.41322 GHz</td><td>-1.97 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-36.54 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-51.39 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.91 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399936 GHz</td><td>-36.98 dBm</td><td></td><td></td></tr></table> Date: 8 FEB 2023 13:11:05			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41322 GHz	-1.97 dBm			M2	1		2.4 GHz	-36.54 dBm			M3	1		2.39 GHz	-51.39 dBm			M4	1		2.31 GHz	-63.91 dBm			M5	1		2.399936 GHz	-36.98 dBm		
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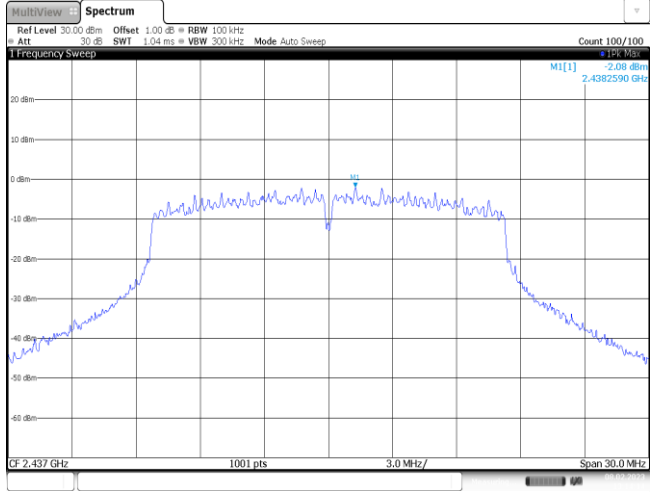
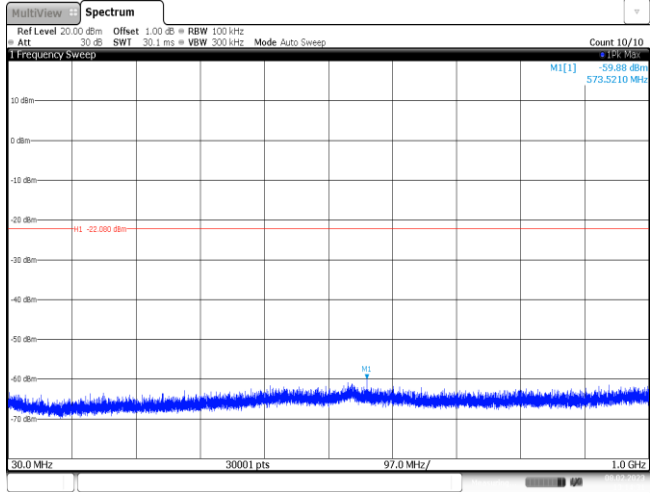
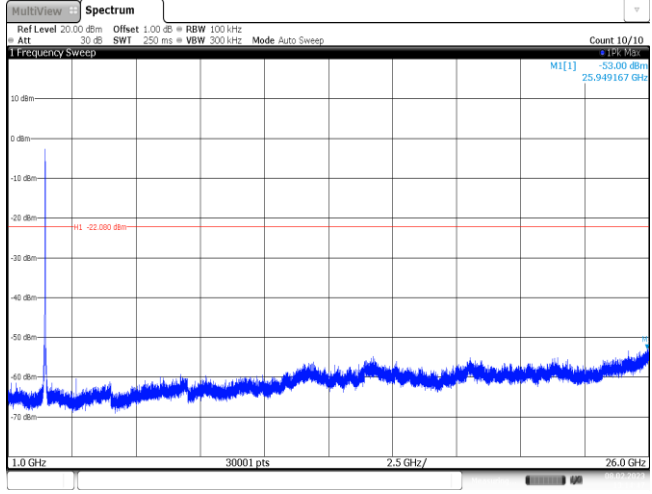
Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
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M4	1		2.31 GHz	-62.62 dBm																																									
M5	1		2.399712 GHz	-36.58 dBm																																									
CH11	MultiViewSpectrum Ref 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 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] -2.04 dBm 2.4632450 GHz M2[1] -50.88 dBm 2.4835000 GHz 2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz 2 Marker Table <table><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><tr><td>M1</td><td>1</td><td></td><td>2.463245 GHz</td><td>-2.04 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-50.88 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-55.98 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.48392 GHz</td><td>-50.17 dBm</td><td></td><td></td></tr></table> Date: 8 FEB 2023 13:27:19			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463245 GHz	-2.04 dBm			M2	1		2.4835 GHz	-50.88 dBm			M3	1		2.5 GHz	-55.98 dBm			M4	1		2.48392 GHz	-50.17 dBm									
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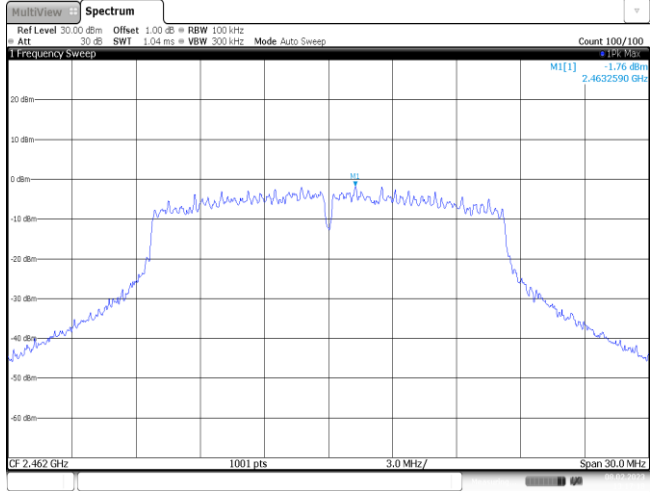
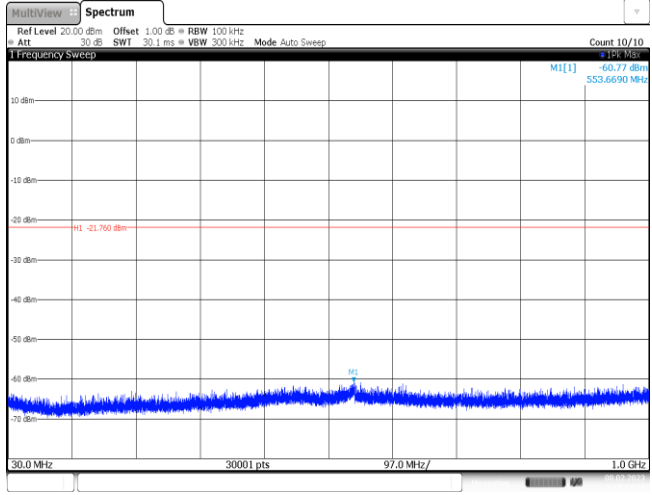
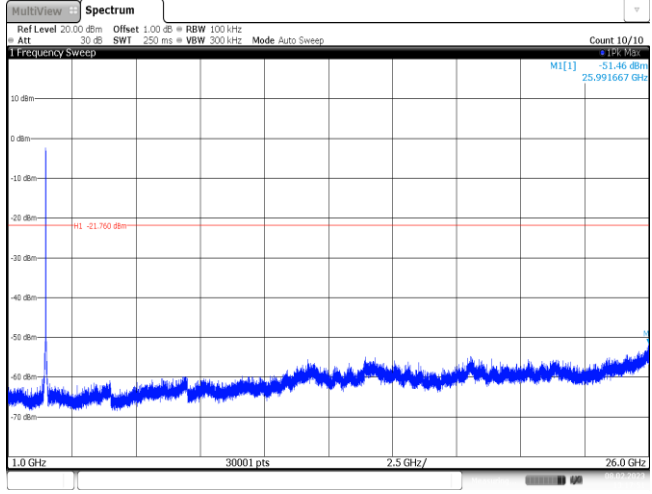
Test Item:	Spurious Emissions	Type:	802.11 b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

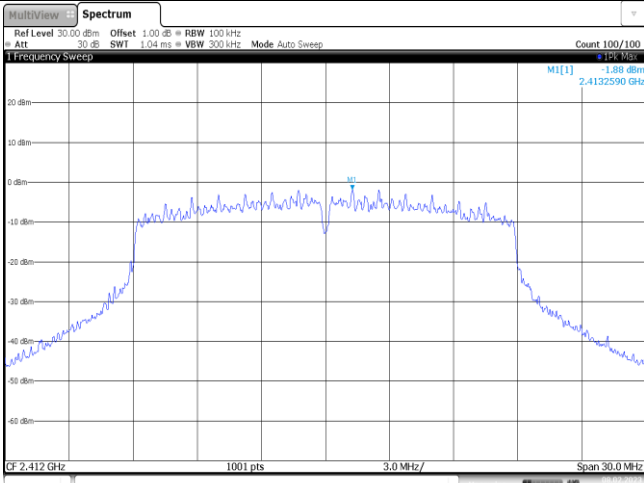
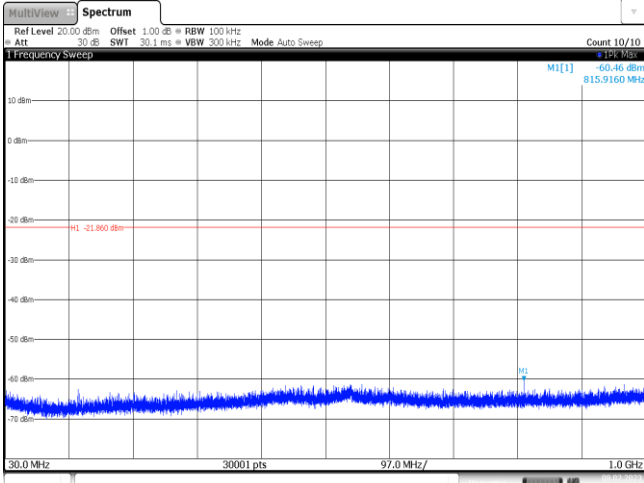
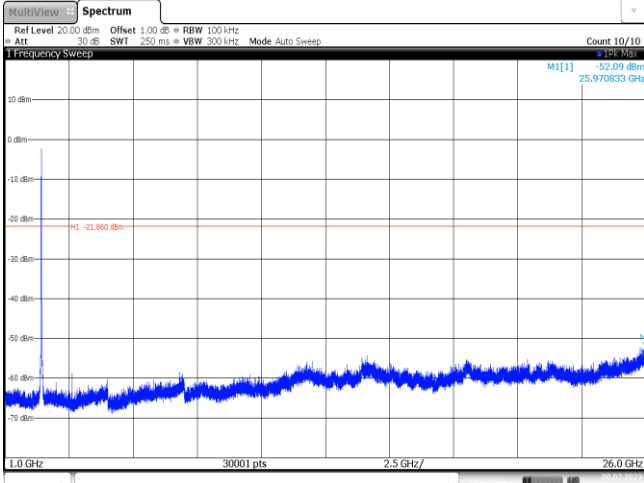
CH06 Reference level	 The spectrum plot shows a frequency sweep from 2.437 GHz to 2.4371200 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The plot shows a broad peak centered around 2.437 GHz, with a maximum power level of approximately 0 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 1.04 ms, VBW 300 kHz, Mode Auto Sweep. The x-axis is labeled 'CF 2.437 GHz' and 'Span 30.0 MHz'.
CH06 30MHz~1000MHz	 The spectrum plot shows a frequency sweep from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a relatively flat noise floor around -60 dBm. A red horizontal line is drawn at -17.710 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 30.1 ms, VBW 300 kHz, Mode Auto Sweep. The x-axis is labeled '30.0 MHz' and 'Span 97.0 MHz'.
CH06 1GHz~26GHz	 The spectrum plot shows a frequency sweep from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The plot shows a relatively flat noise floor around -60 dBm. A red horizontal line is drawn at -17.710 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 250 ms, VBW 300 kHz, Mode Auto Sweep. The x-axis is labeled '1.0 GHz' and 'Span 25.0 GHz'.

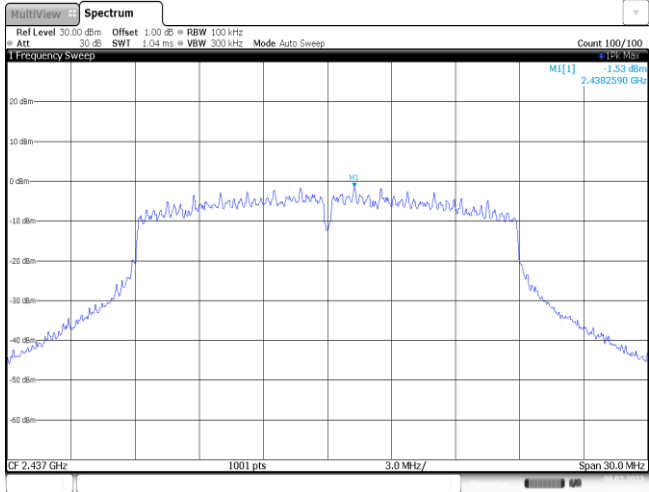
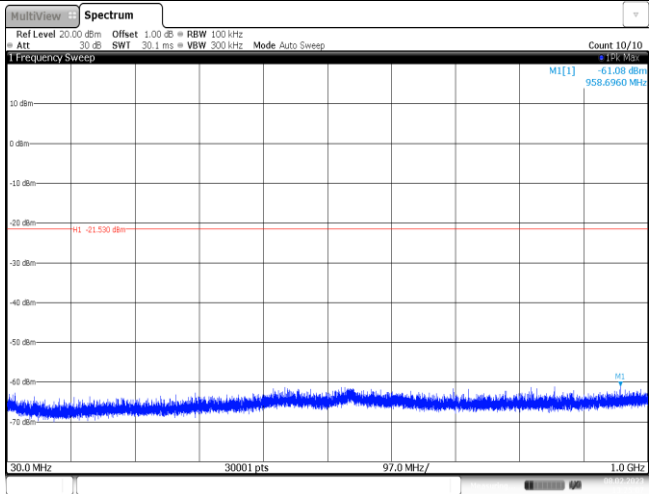
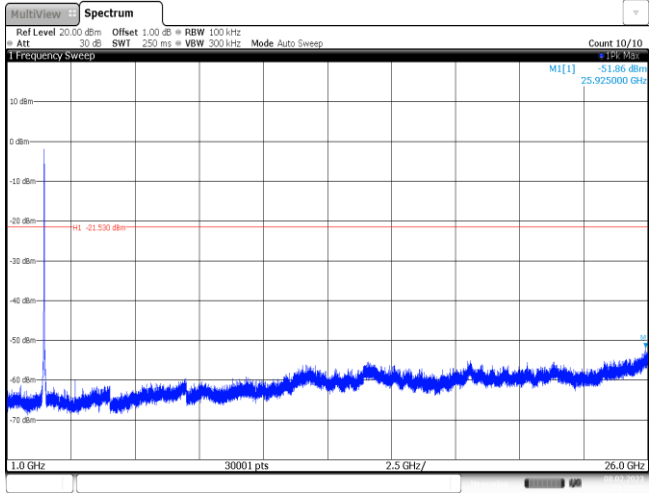
CH11 Reference level	 8 FEB 2023 13:04:54
CH11 30MHz~1000MHz	 8 FEB 2023 13:05:10
CH11 1GHz~26GHz	 8 FEB 2023 13:05:26

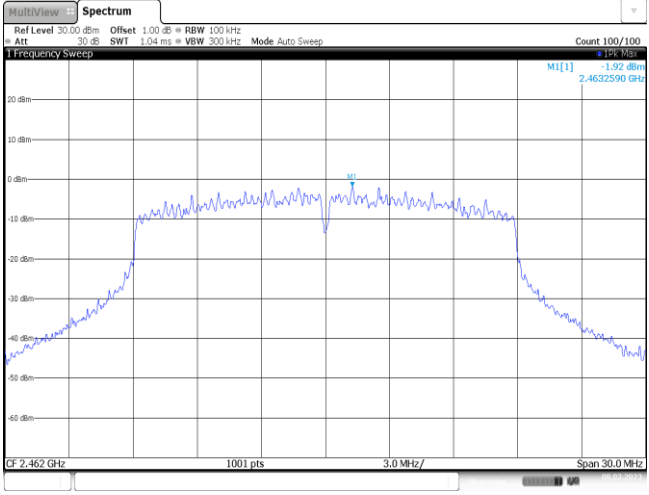
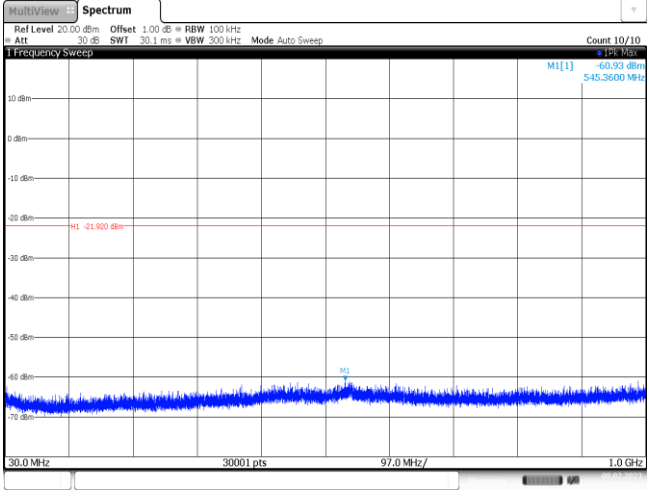
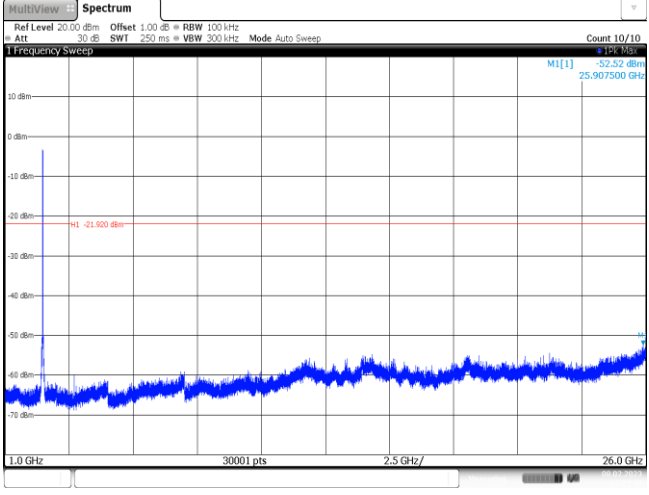
Test Item:	Spurious Emissions	Type:	802.11 g
CH01 Reference level	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.18 dBm 2.4122590 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2023 13:11:42		
CH01 30MHz~1000MHz	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.85 dBm 448.6540 MHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 FEB 2023 13:11:58		
CH01 1GHz~26GHz	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -52.62 dBm 25.906333 GHz -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 FEB 2023 13:12:14		

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] -1.76 dBm 2.462590 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2023 13:17:18
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.77 dBm 553.6690 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 FEB 2023 13:17:04
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.46 dBm 25.991667 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 FEB 2023 13:17:50

Test Item:	Spurious Emissions	Type:	802.11 n(HT20)
CH01 Reference level	 CH01 Reference level		
CH01 30MHz~1000MHz	 CH01 30MHz~1000MHz		
CH01 1GHz~26GHz	 CH01 1GHz~26GHz		

CH06 Reference level	 The spectrum plot shows a frequency sweep from 2.437 GHz to 2.4382590 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The signal is a narrowband peak centered at approximately 2.4379 GHz, reaching a maximum power of about 15 dBm. The plot includes a grid and various measurement parameters like Ref Level, Offset, and Span.
CH06 30MHz~1000MHz	 The spectrum plot shows a frequency sweep from 30.0 MHz to 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The signal is a broad, noisy band across the entire frequency range, with a maximum power level of approximately -61 dBm. A red horizontal line is drawn at -41.530 dBm as a reference.
CH06 1GHz~26GHz	 The spectrum plot shows a frequency sweep from 1.0 GHz to 26.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The signal is a broad, noisy band across the entire frequency range, with a maximum power level of approximately -51.86 dBm. A red horizontal line is drawn at -41.530 dBm as a reference.

CH11 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -1.92 dBm 2.4622590 GHz CF 2.462 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 FEB 2023 13:27:26
CH11 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.93 dBm 545.3600 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 FEB 2023 13:27:41
CH11 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30.0 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.52 dBm 25.907500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 FEB 2023 13:27:58

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