

APPENDIX REPORT

Project No.	SHT2102033002EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21020330003	Model No.	VT980
Start test date	2021-03-03	Finish date	2021-03-03
Temperature	22.4°C	Humidity	53%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

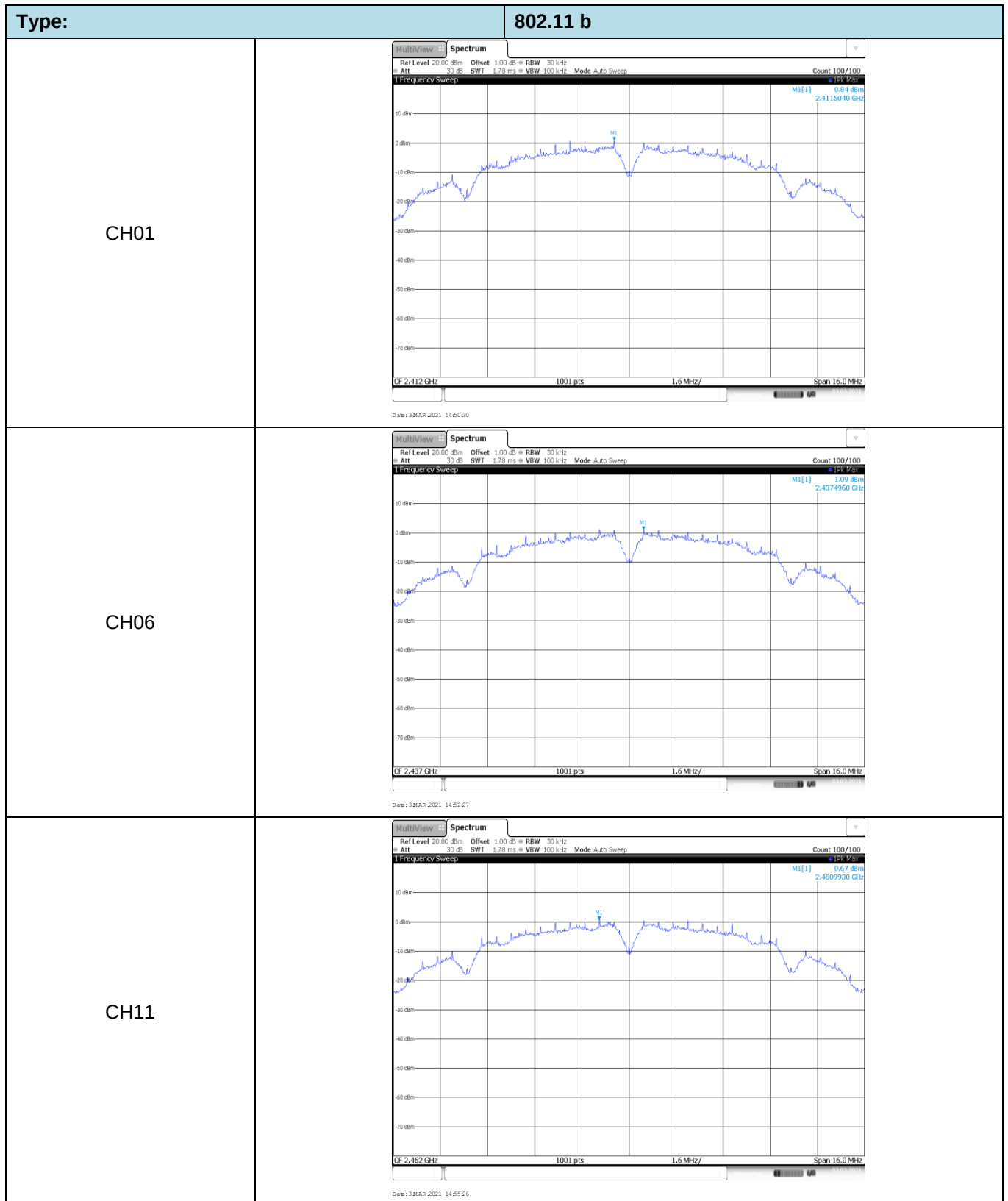
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

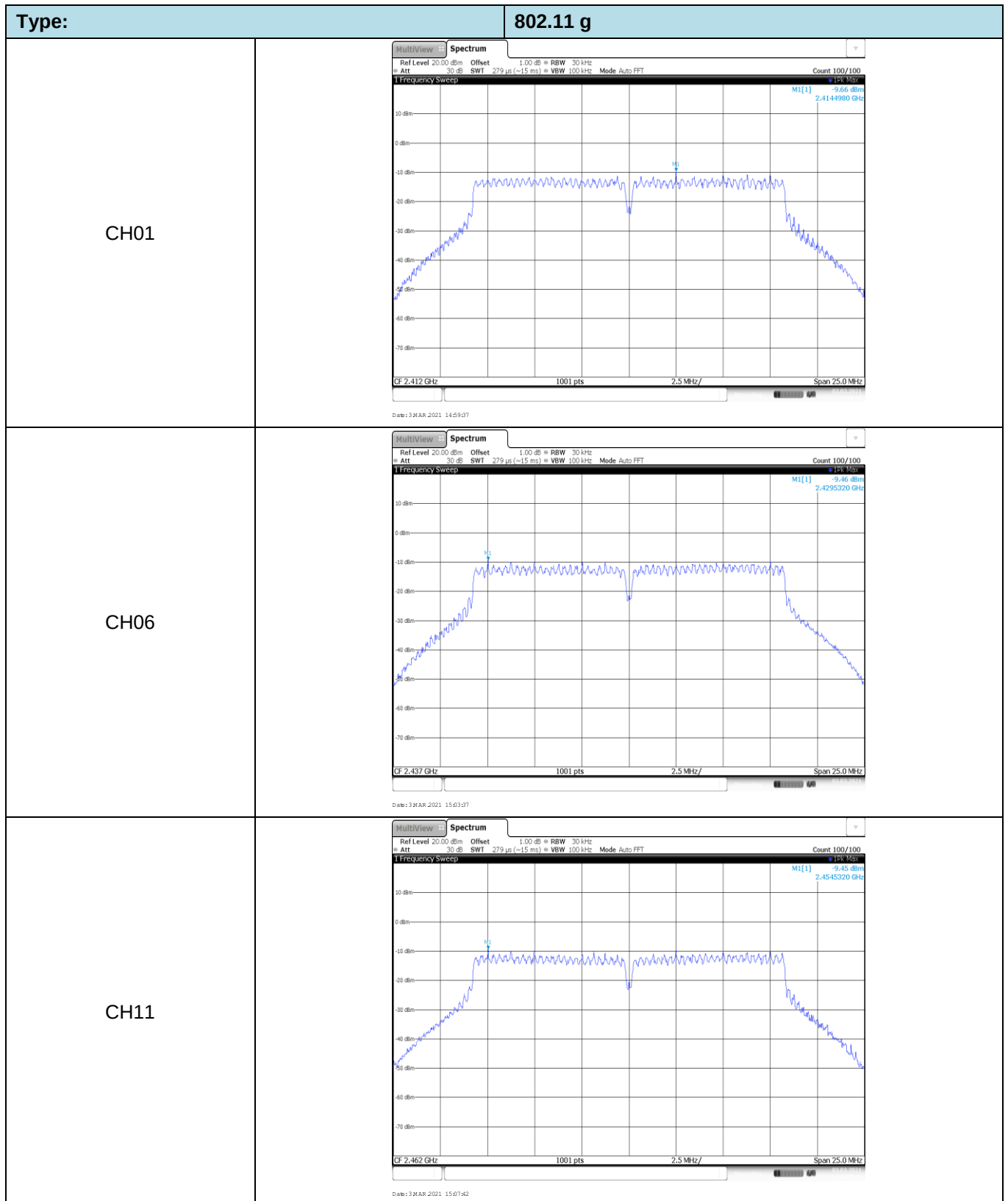
Appendix A: Conducted Peak Output Power

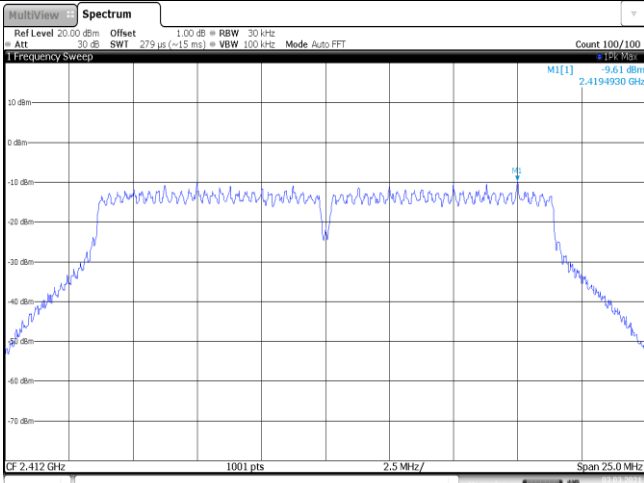
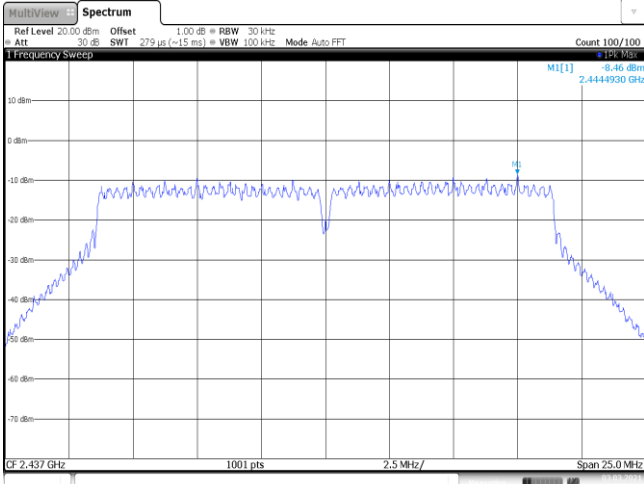
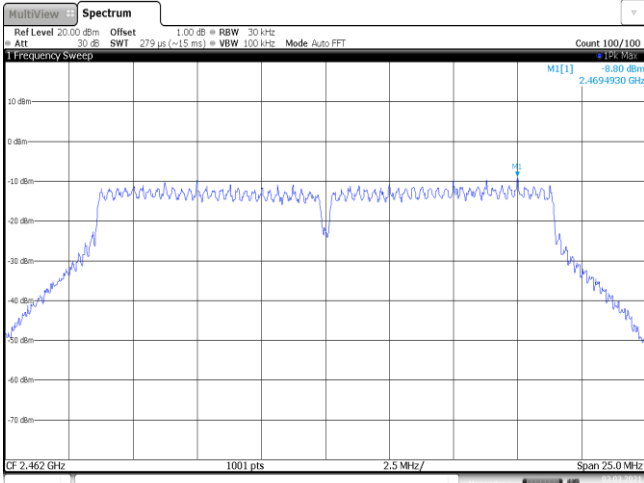
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	14.73	12.27	≤ 30.00	Pass
	06	15.47	13.01		
	11	14.49	12.05		
802.11g	01	15.06	12.61	≤ 30.00	Pass
	06	15.74	12.23		
	11	15.04	12.55		
802.11n (HT20)	01	14.98	12.58	≤ 30.00	Pass
	06	15.74	13.22		
	11	15.12	12.67		
802.11n(HT40)	03	14.46	12.12	≤ 30.00	Pass
	06	14.73	12.18		
	09	14.04	11.37		

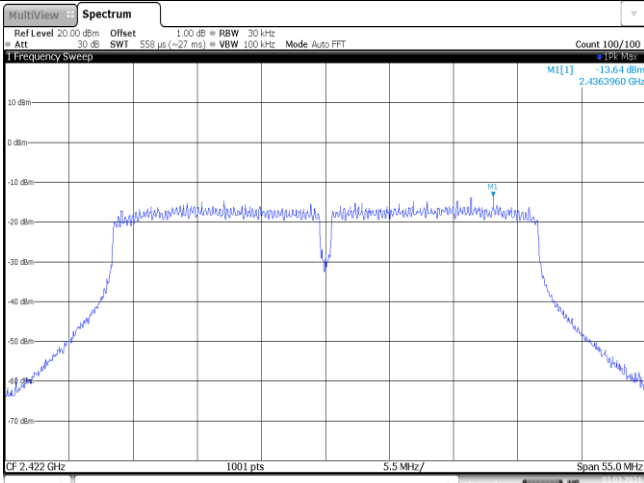
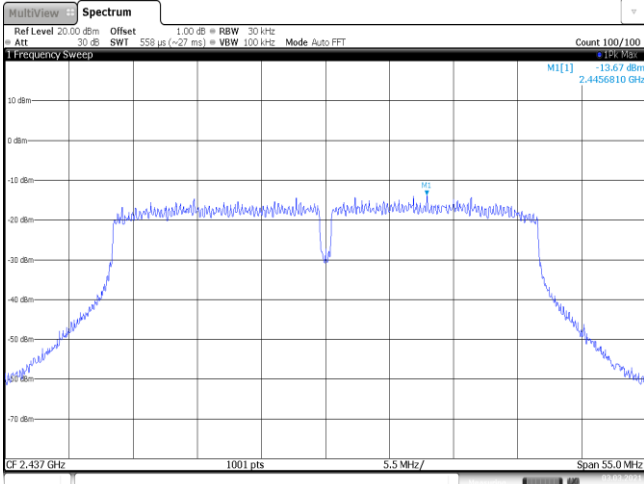
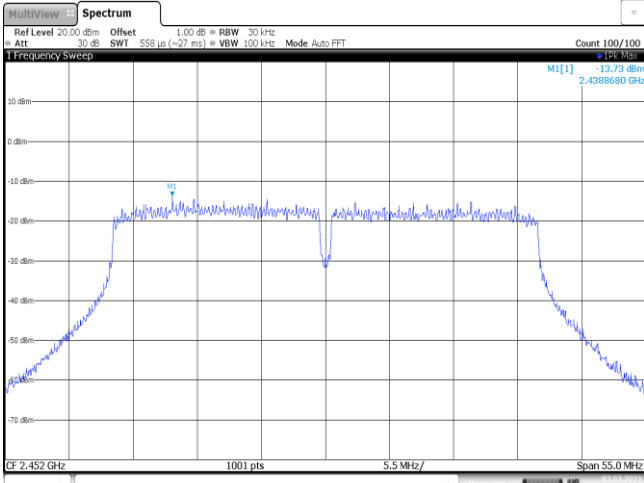
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.84	≤8.00	Pass
	06	1.09		
	11	0.67		
802.11g	01	-9.66	≤8.00	Pass
	06	-9.46		
	11	-9.45		
802.11n(HT20)	01	-9.61	≤8.00	Pass
	06	-8.46		
	11	-8.80		
802.11n(HT40)	03	-13.64	≤8.00	Pass
	06	-13.67		
	09	-13.73		



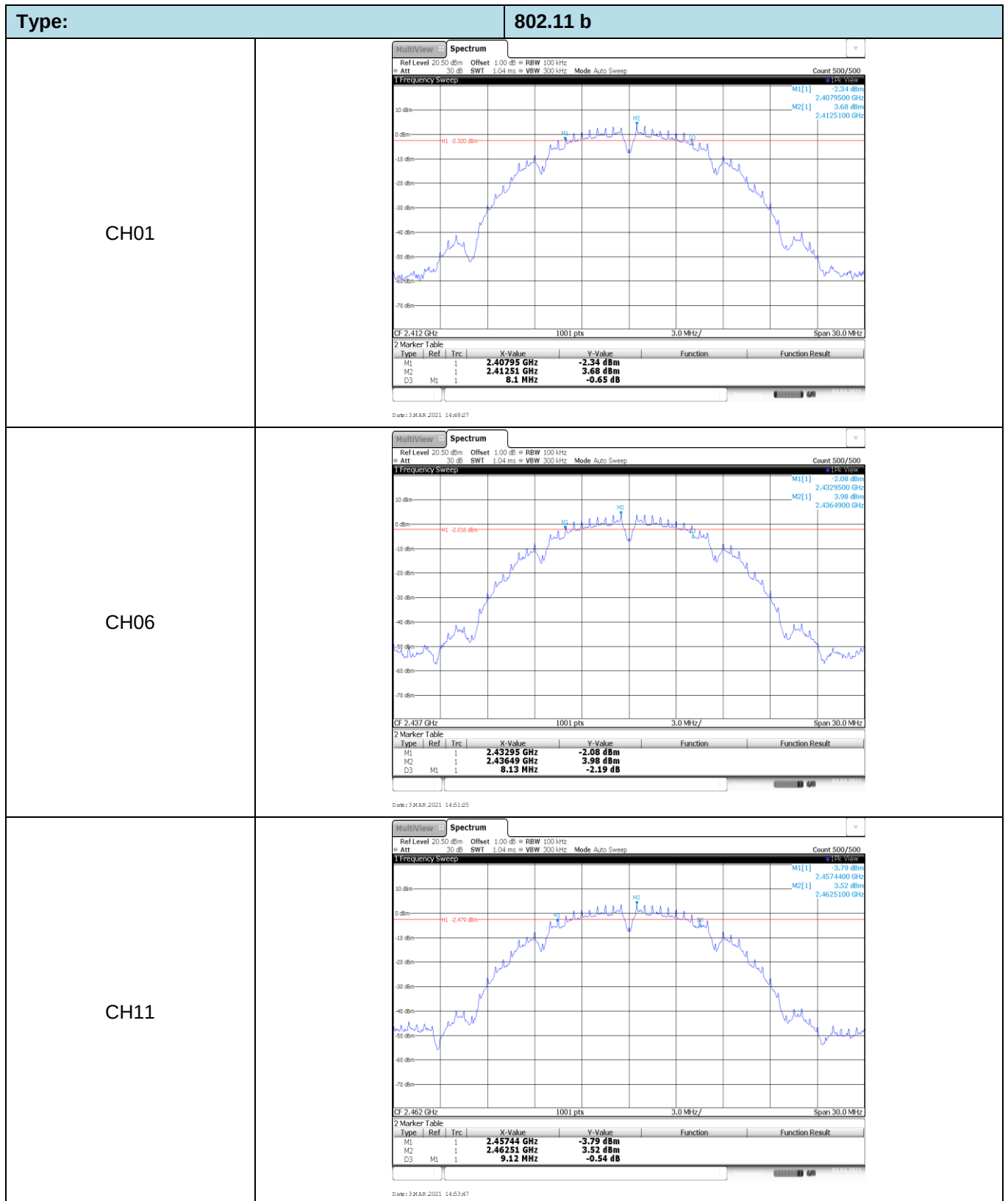


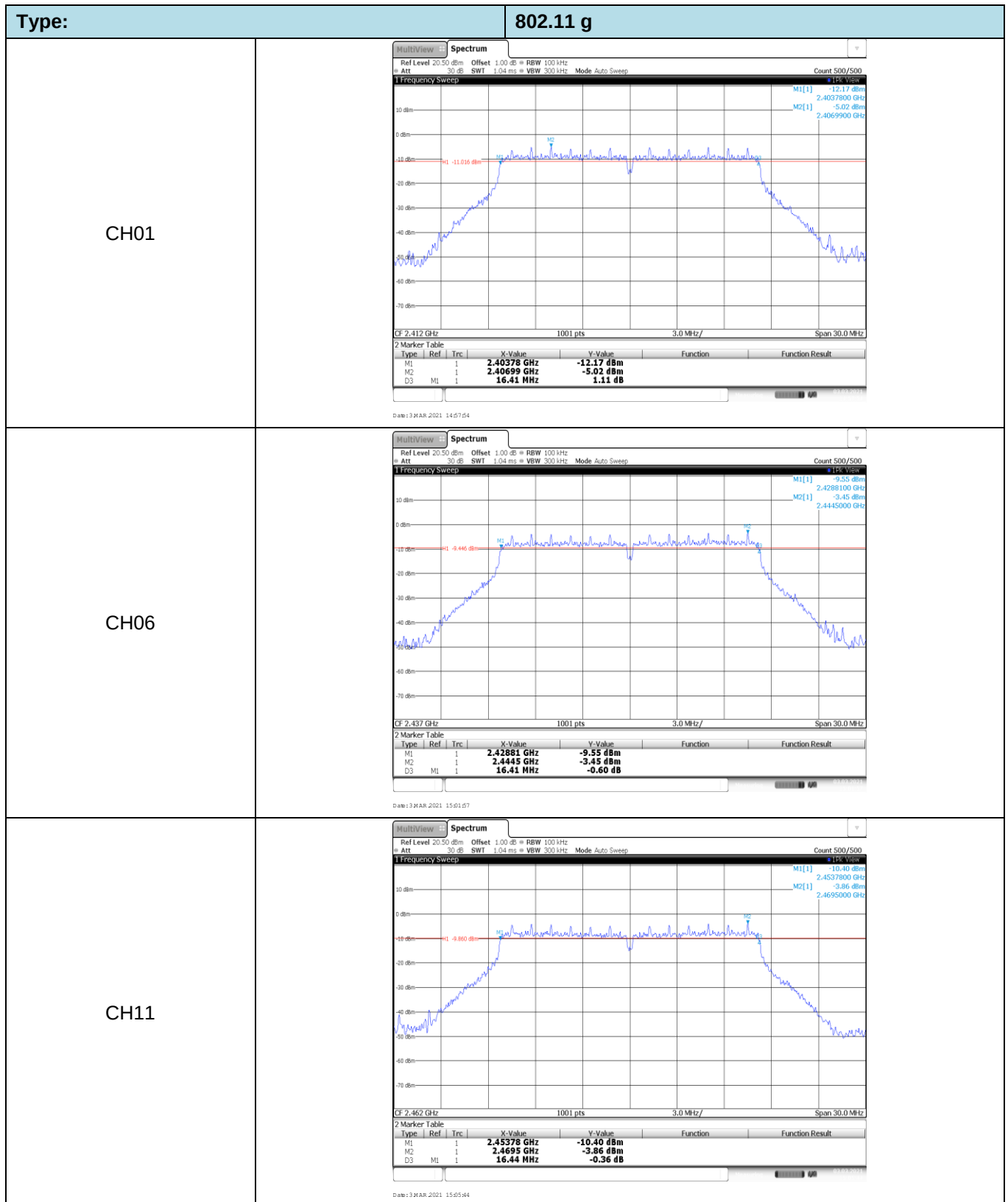
Type:	802.11n(HT20)
CH01	 Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -9.61 dBm 2.4194930 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 3 MAR 2021 15:14:03
CH06	 Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -8.46 dBm 2.4444930 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 3 MAR 2021 15:14:23
CH11	 Ref Level 20.00 dBm Offset 30 dB Att 30 dB SWI 279 us (~15 ms) BW 30 kHz VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -8.80 dBm 2.4694930 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 3 MAR 2021 15:18:02

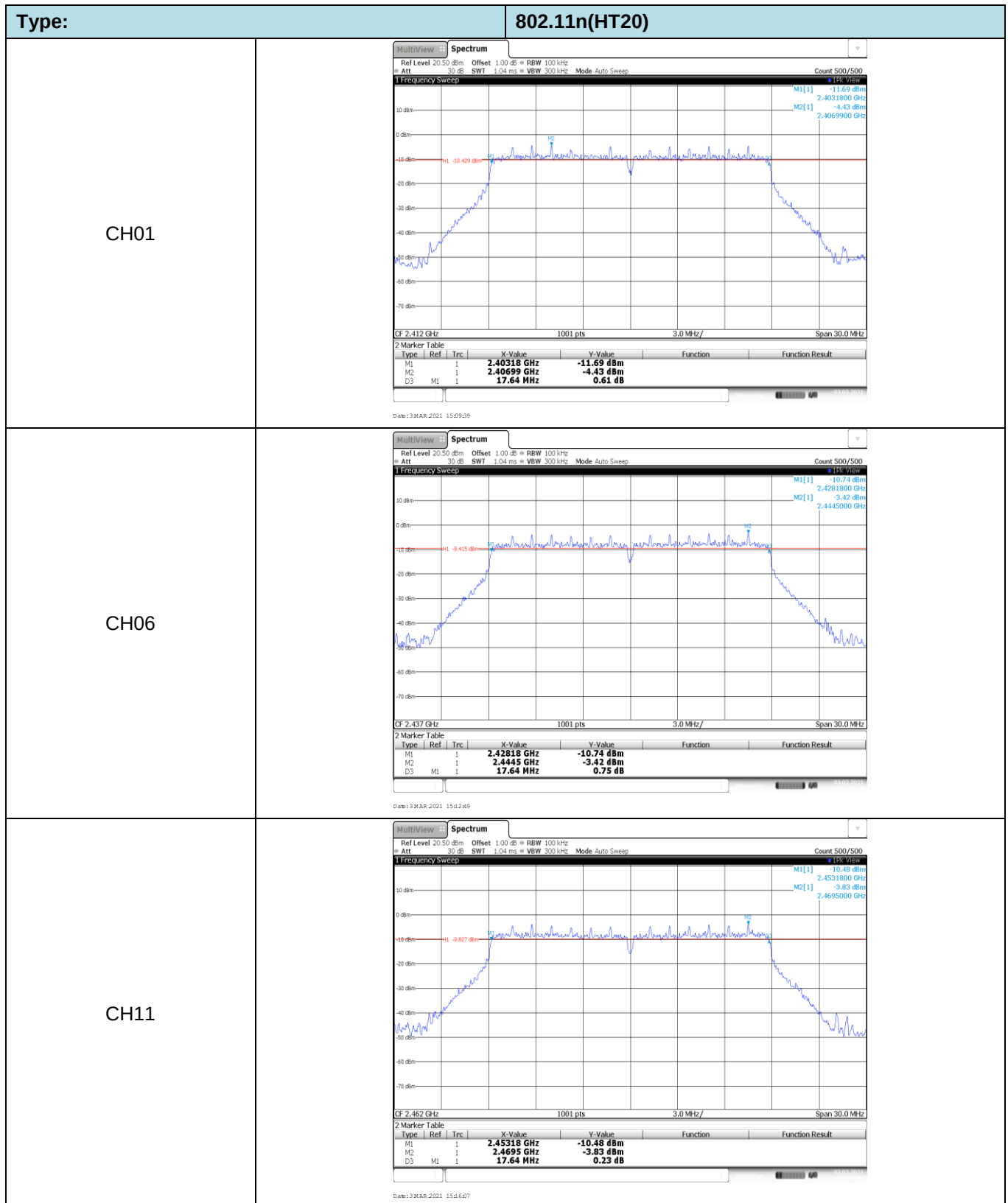
Type:	802.11n(HT40)
CH03	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -13.64 dBm 2.4363960 GHz Date: 3 MAR 2021 15:22:07
CH06	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -13.67 dBm 2.4456810 GHz Date: 3 MAR 2021 15:27:43
CH09	 Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 558 us (~27 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -13.73 dBm 2.4388680 GHz Date: 3 MAR 2021 15:30:25

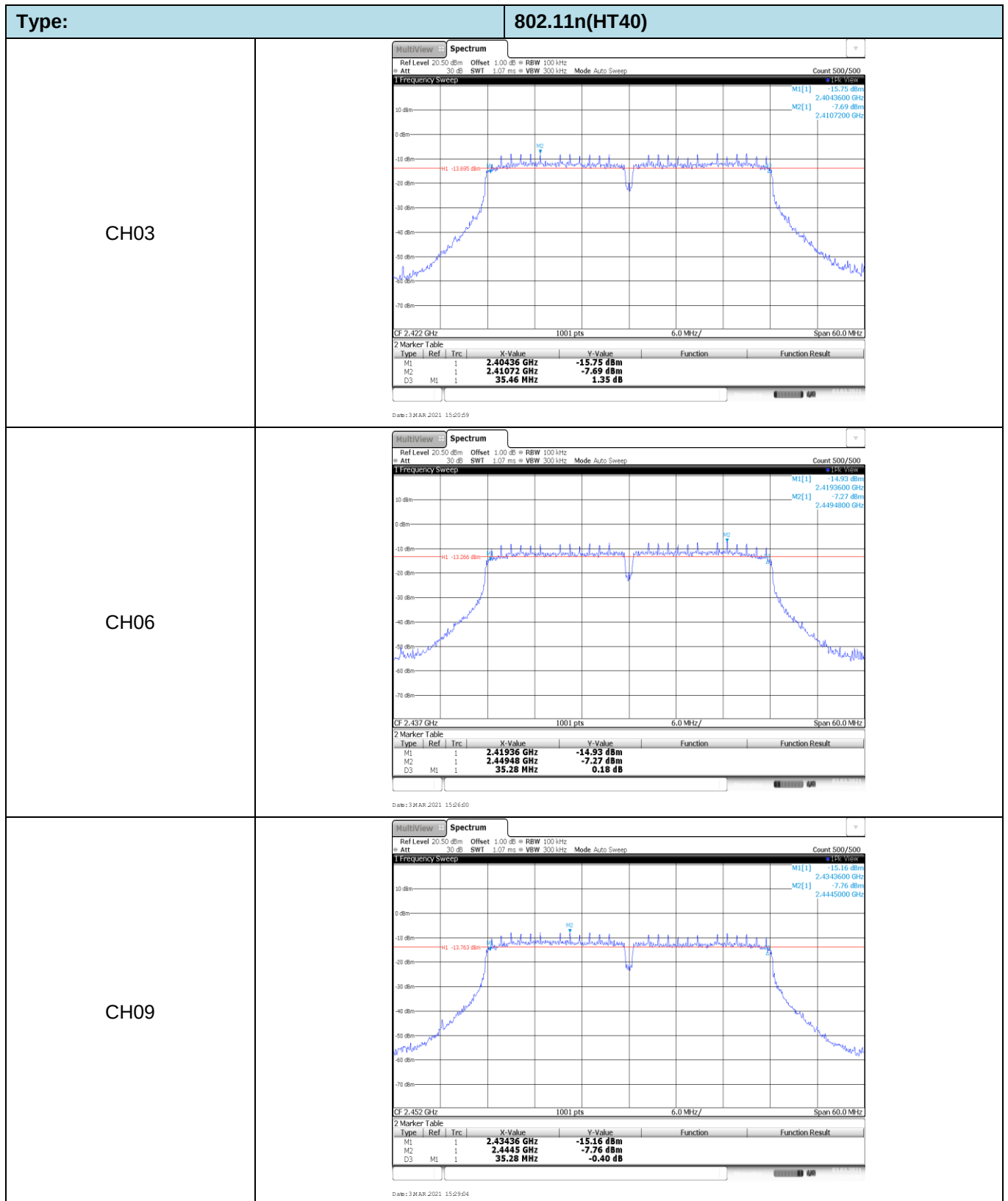
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.10	≥0.5	Pass
	06	8.13		
	11	9.12		
802.11g	01	16.41	≥0.5	Pass
	06	16.41		
	11	16.44		
802.11n(HT20)	01	17.64	≥0.5	Pass
	06	17.64		
	11	17.64		
802.11n(HT40)	03	35.46	≥0.5	Pass
	06	35.28		
	09	35.28		





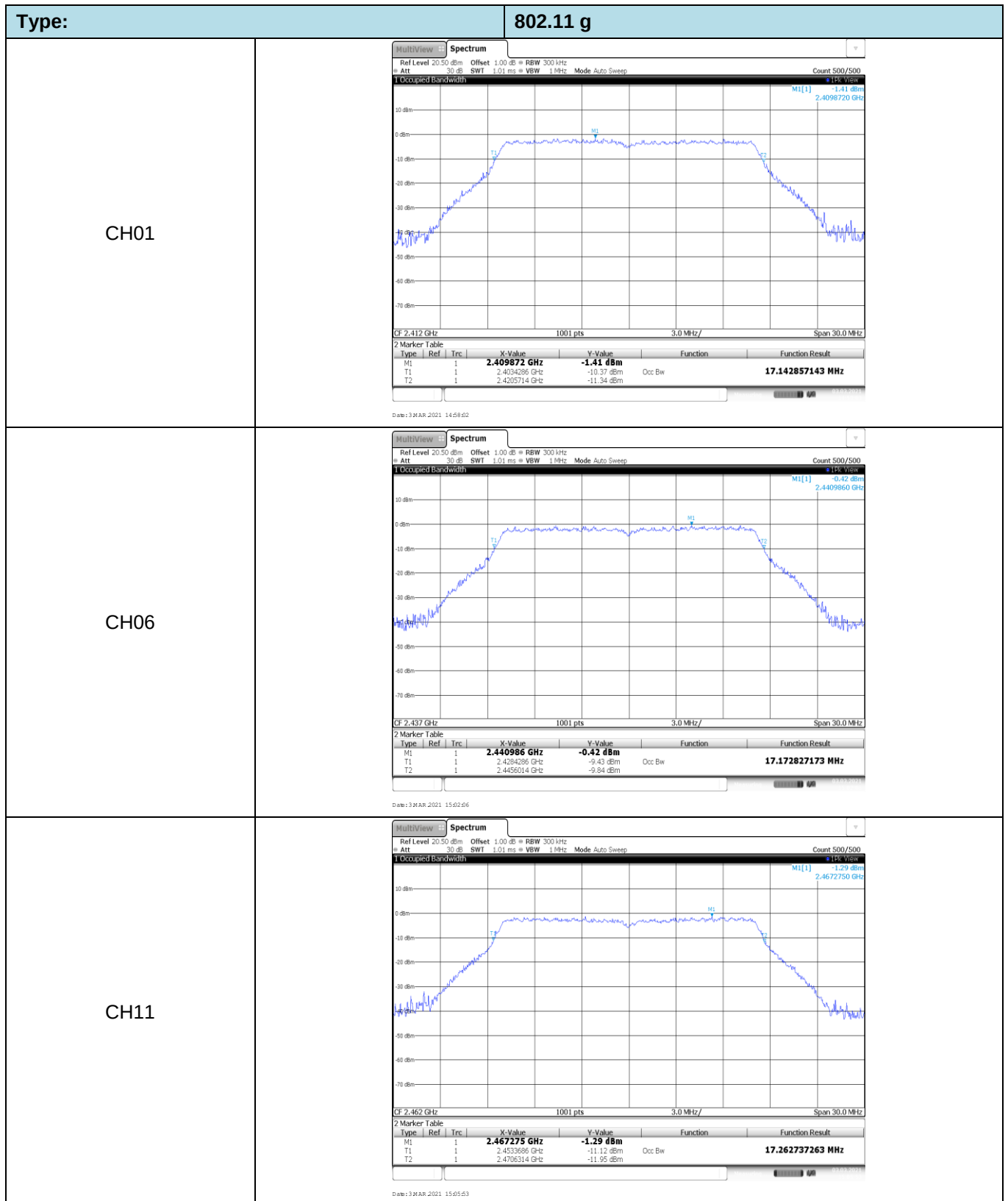


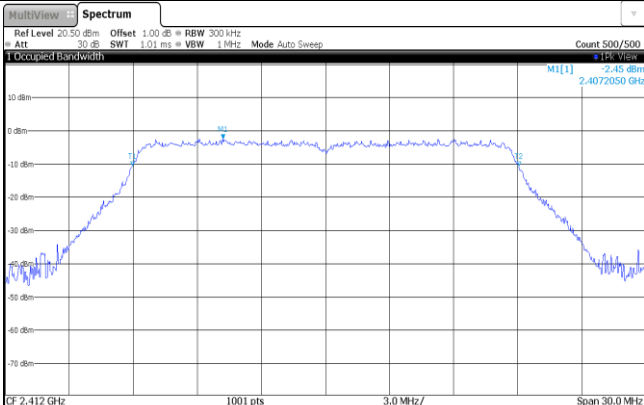
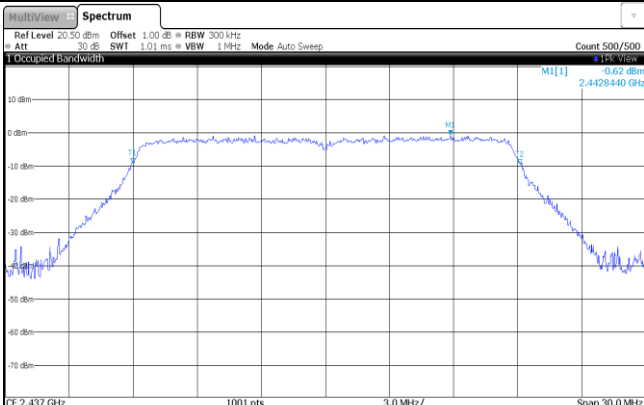
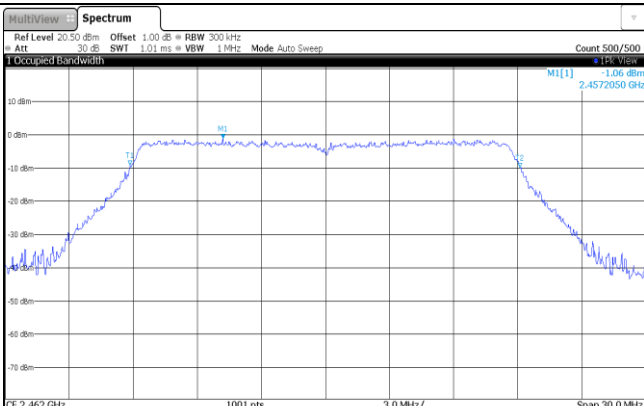


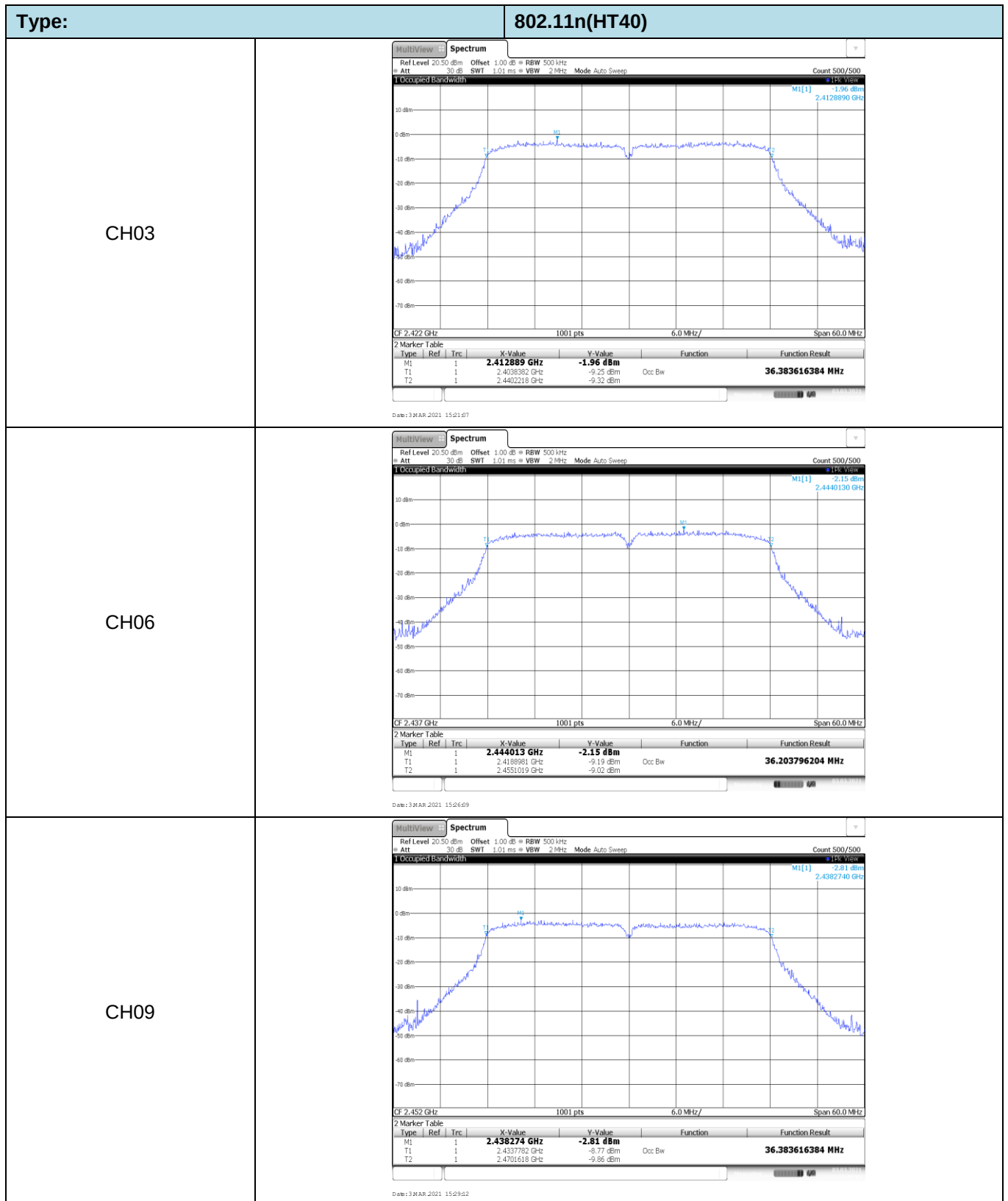
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	13.07	-	Pass
	06	13.13		
	11	13.34		
802.11g	01	17.14	-	Pass
	06	17.17		
	11	17.26		
802.11n(HT20)	01	18.07	-	Pass
	06	18.13		
	11	18.25		
802.11n(HT40)	03	36.38	-	Pass
	06	36.20		
	09	36.38		

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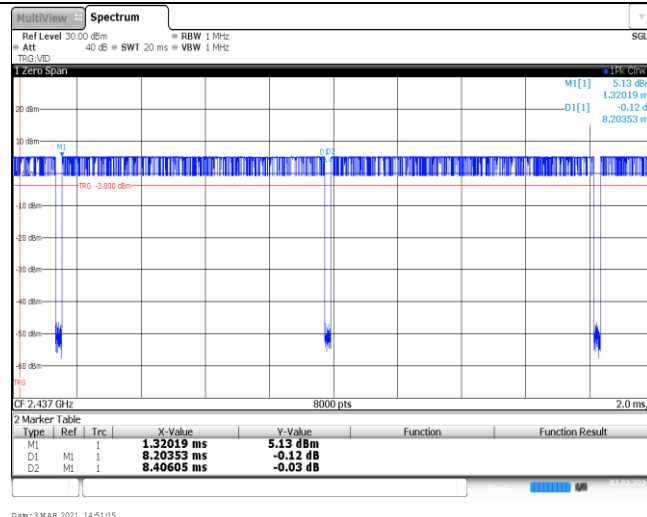
Type:		802.11n(HT20)																												
CH01	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 PK View 1 Occupied Bandwidth  <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.407205 GHz</td><td>-2.45 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.402979 GHz</td><td>-10.53 dBm</td><td>Occ Bw</td><td>18.071928072 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.4210509 GHz</td><td>-10.58 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:09:49		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.407205 GHz	-2.45 dBm			T1	1		2.402979 GHz	-10.53 dBm	Occ Bw	18.071928072 MHz	T2	1		2.4210509 GHz	-10.58 dBm		
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CH06	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 PK View 1 Occupied Bandwidth  <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>2.442844 GHz</td><td>-0.62 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>2.427979 GHz</td><td>-8.88 dBm</td><td>Occ Bw</td><td>18.131868132 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>2.4461109 GHz</td><td>-9.22 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:12:57		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.442844 GHz	-0.62 dBm			T1	1		2.427979 GHz	-8.88 dBm	Occ Bw	18.131868132 MHz	T2	1		2.4461109 GHz	-9.22 dBm		
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		2.457205 GHz	-1.06 dBm																										
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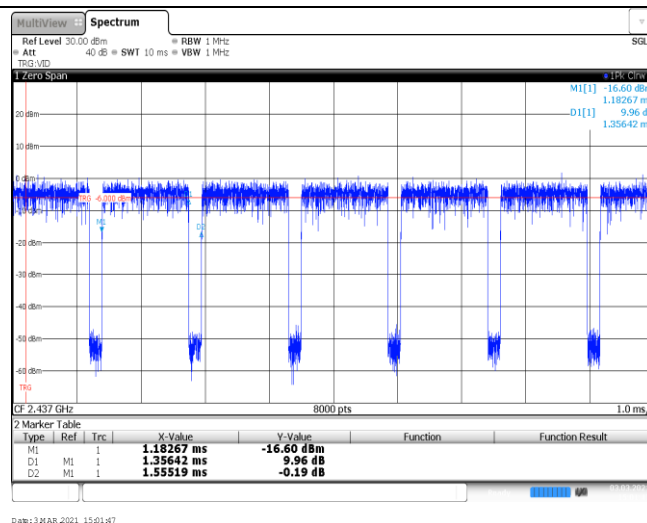
Appendix E: Duty Cycle

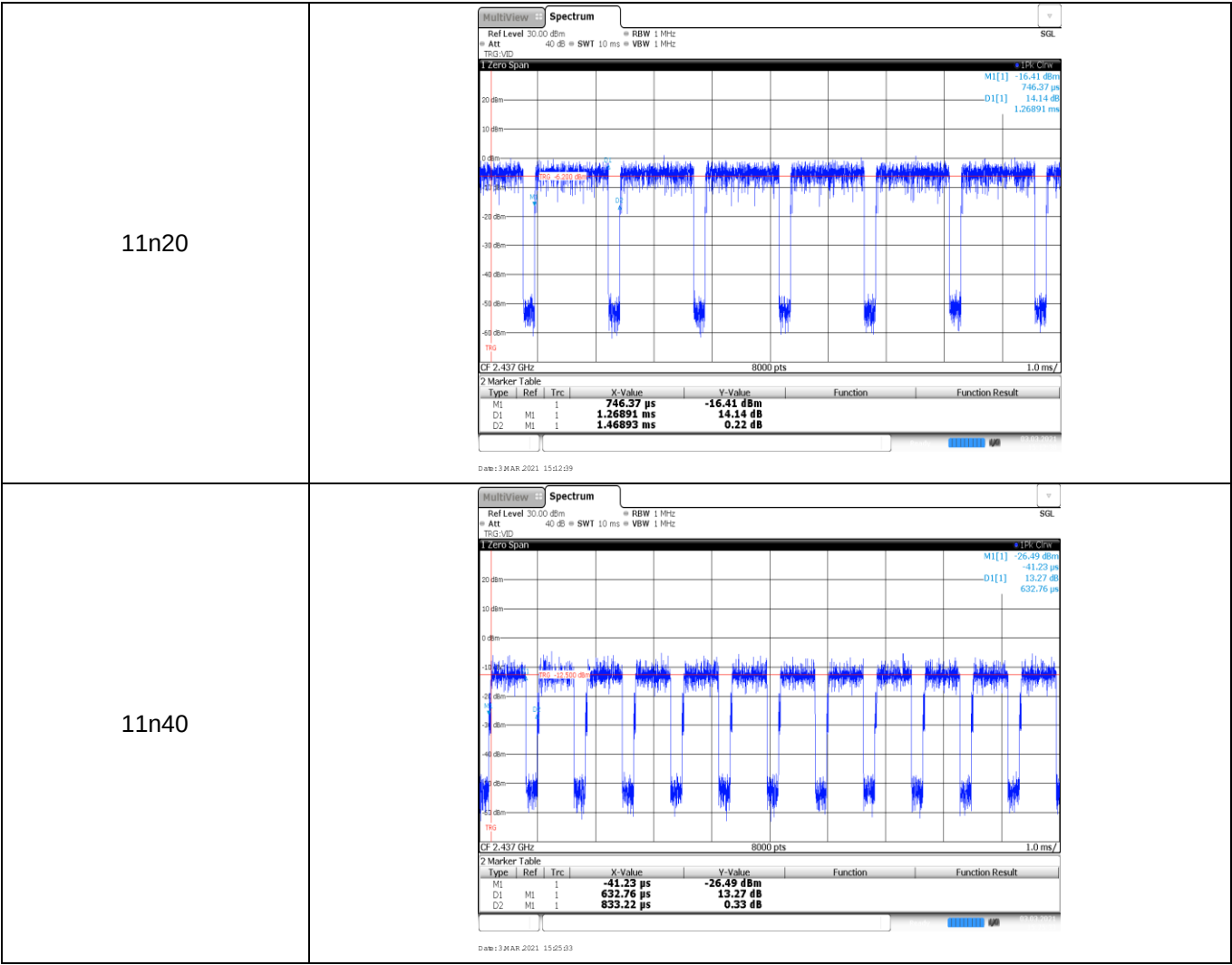
Modulation Type	Test Frequency (MHz)	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
11b	2437	8.20	8.41	97.5%	0.1
11g	2437	1.36	1.56	87.2%	0.7
11n20	2437	1.27	1.47	86.4%	0.8
11n40	2437	0.63	0.83	75.9%	1.6

11b



11g

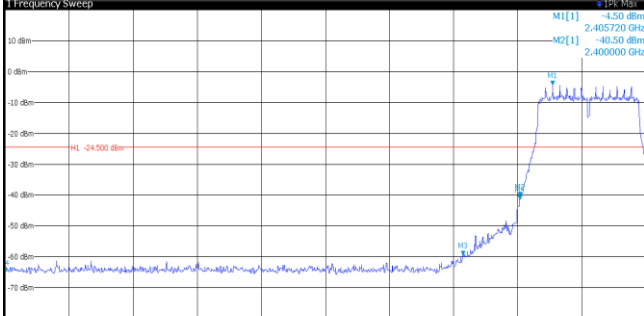
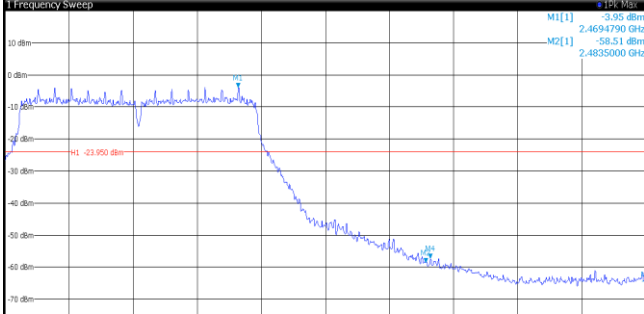




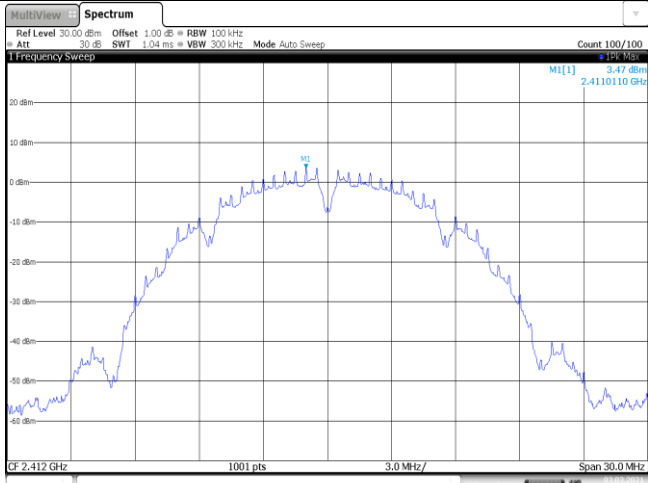
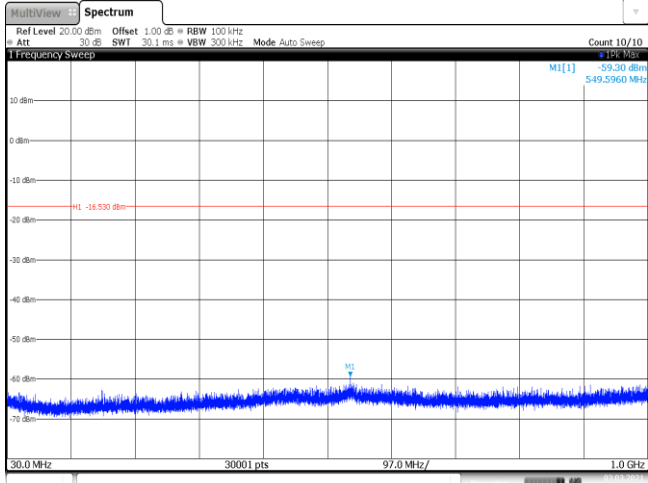
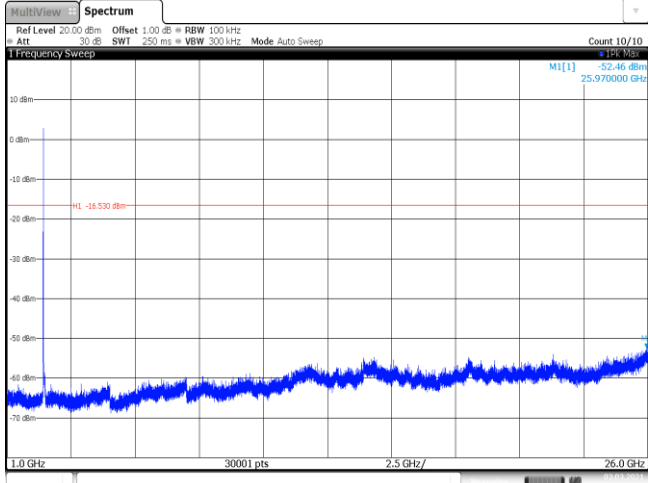
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b																																										
CH01	MultViewSpectrum 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 200/300 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] 3.50 dBm M2[1] 2.412430 GHz -48.02 dBm 2.5000000 GHz M1 -16.500 dBm <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>2.41243 GHz</td><td>3.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-48.02 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-60.51 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.77 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399936 GHz</td><td>-47.52 dBm</td><td></td><td></td></tr></table> Date: 13 MAR 2021 14:49:20			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41243 GHz	3.50 dBm			M2	1		2.4 GHz	-48.02 dBm			M3	1		2.39 GHz	-60.51 dBm			M4	1		2.31 GHz	-63.77 dBm			M5	1		2.399936 GHz	-47.52 dBm		
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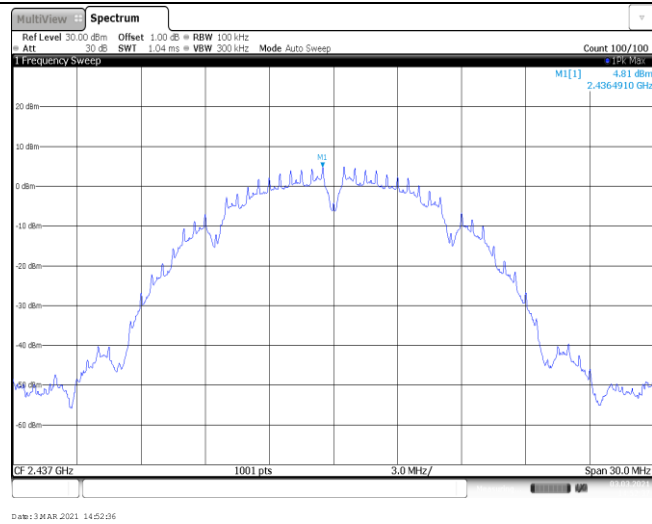
Test Item:	Bandedge	Type:	802.11 g																																										
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M4	1		2.4844 GHz	-58.13 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(HT20)																																										
CH01	MultiViewSpectrum 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 1 Frequency Sweep  2.31 GHz 1001 pts 11.2 MHz/ 2.422 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>2.40572 GHz</td><td>-4.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-40.50 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-59.63 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.15 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399936 GHz</td><td>-41.61 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:11:03			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40572 GHz	-4.50 dBm			M2	1		2.4 GHz	-40.50 dBm			M3	1		2.39 GHz	-59.63 dBm			M4	1		2.31 GHz	-64.15 dBm			M5	1		2.399936 GHz	-41.61 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40572 GHz	-4.50 dBm																																									
M2	1		2.4 GHz	-40.50 dBm																																									
M3	1		2.39 GHz	-59.63 dBm																																									
M4	1		2.31 GHz	-64.15 dBm																																									
M5	1		2.399936 GHz	-41.61 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  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>2.469479 GHz</td><td>-3.95 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.51 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.34 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483872 GHz</td><td>-57.28 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:18:12			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.469479 GHz	-3.95 dBm			M2	1		2.4835 GHz	-58.51 dBm			M3	1		2.5 GHz	-64.34 dBm			M4	1		2.483872 GHz	-57.28 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.469479 GHz	-3.95 dBm																																									
M2	1		2.4835 GHz	-58.51 dBm																																									
M3	1		2.5 GHz	-64.34 dBm																																									
M4	1		2.483872 GHz	-57.28 dBm																																									

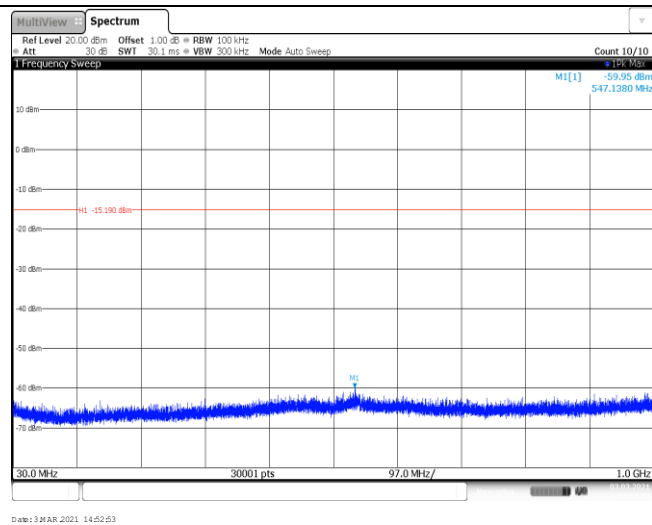
Test Item:	Bandedge	Type:	802.11 n(HT40)																																										
CH03	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.32 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M1[1] -7.77 dBm 2.410680 GHz M2[1] -40.72 dBm 2.400000 GHz 2.31 GHz 1001 pts 13.2 MHz/ 2.442 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>2.41068 GHz</td><td>-7.77 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-40.72 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-60.06 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.55 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399892 GHz</td><td>-42.17 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:22:47			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41068 GHz	-7.77 dBm			M2	1		2.4 GHz	-40.72 dBm			M3	1		2.39 GHz	-60.06 dBm			M4	1		2.31 GHz	-64.55 dBm			M5	1		2.399892 GHz	-42.17 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41068 GHz	-7.77 dBm																																									
M2	1		2.4 GHz	-40.72 dBm																																									
M3	1		2.39 GHz	-60.06 dBm																																									
M4	1		2.31 GHz	-64.55 dBm																																									
M5	1		2.399892 GHz	-42.17 dBm																																									
CH09	MultViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M1[1] -7.84 dBm 2.4407290 GHz M2[1] -56.76 dBm 2.4835000 GHz 2.432 GHz 1001 pts 6.8 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>2.440729 GHz</td><td>-7.84 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-56.76 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.91 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484496 GHz</td><td>-54.44 dBm</td><td></td><td></td></tr></table> Date: 3 MAR 2021 15:30:05			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.440729 GHz	-7.84 dBm			M2	1		2.4835 GHz	-56.76 dBm			M3	1		2.5 GHz	-63.91 dBm			M4	1		2.484496 GHz	-54.44 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.440729 GHz	-7.84 dBm																																									
M2	1		2.4835 GHz	-56.76 dBm																																									
M3	1		2.5 GHz	-63.91 dBm																																									
M4	1		2.484496 GHz	-54.44 dBm																																									

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

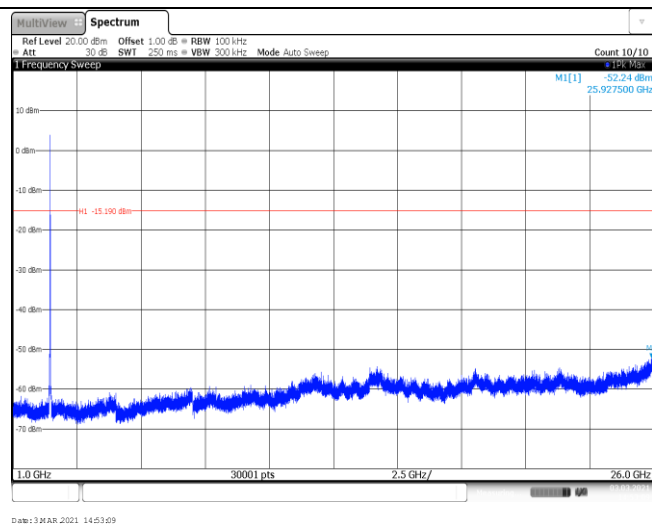
CH06
Reference level



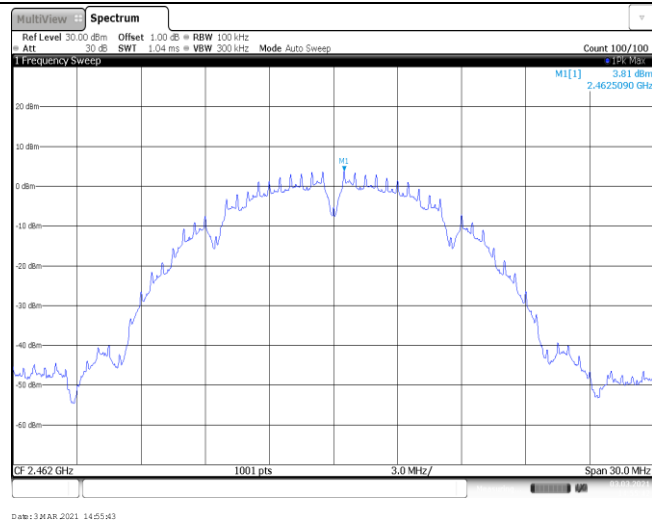
CH06
30MHz~1000MHz



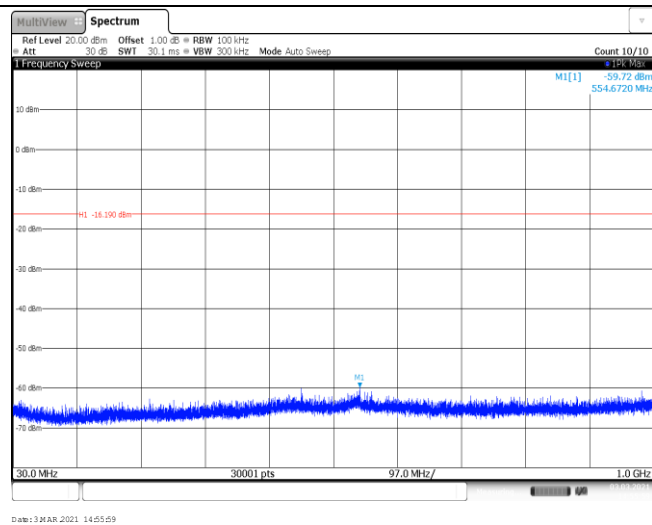
CH06
1GHz~26GHz



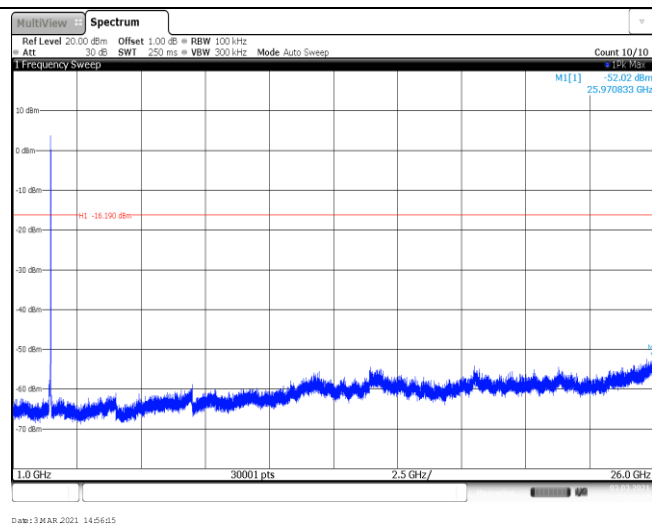
CH11
Reference level

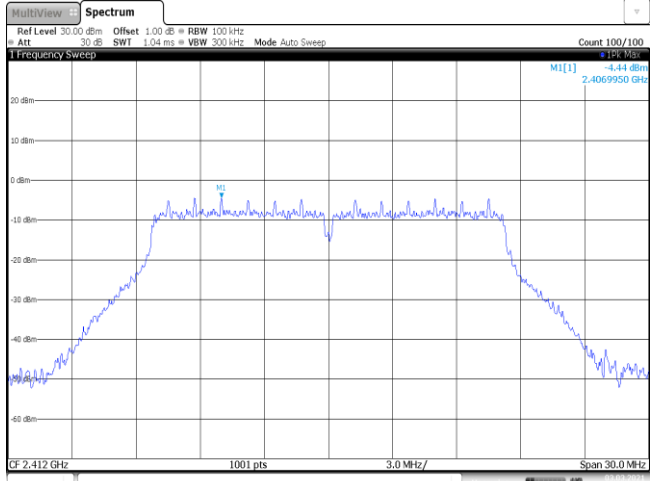
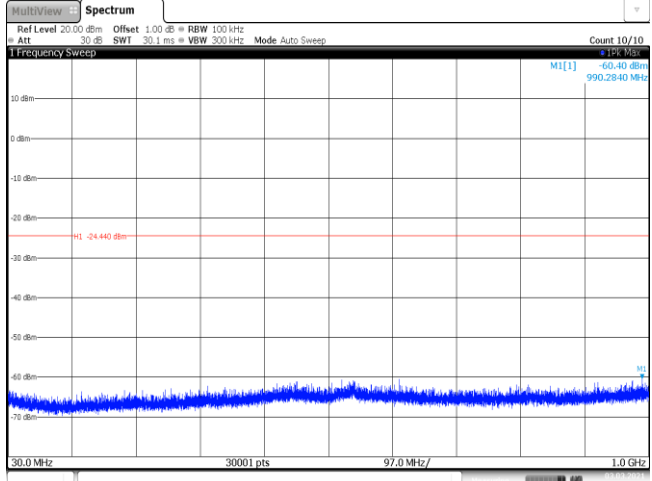
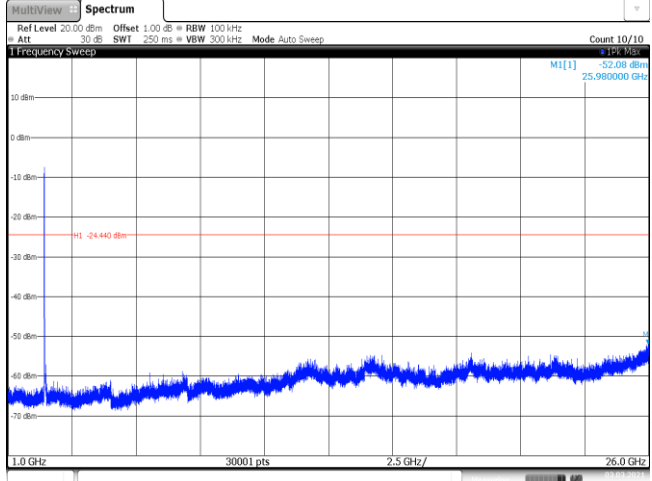


CH11
30MHz~1000MHz

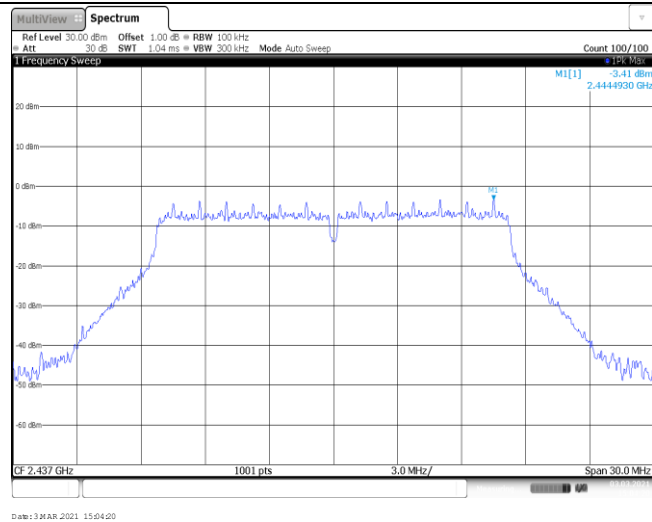


CH11
1GHz~26GHz

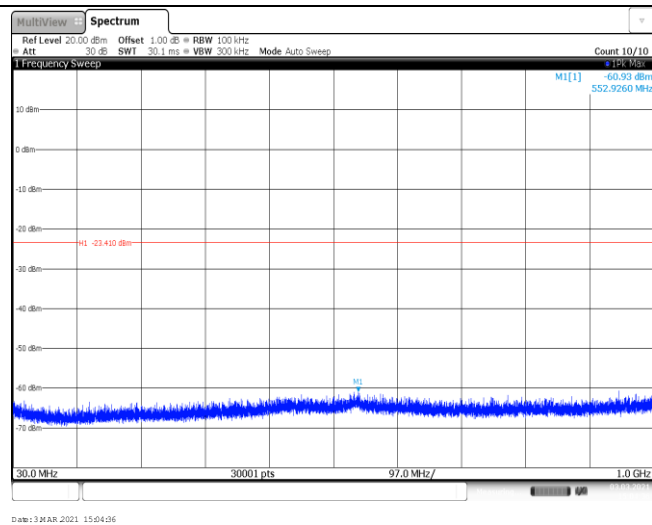


Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

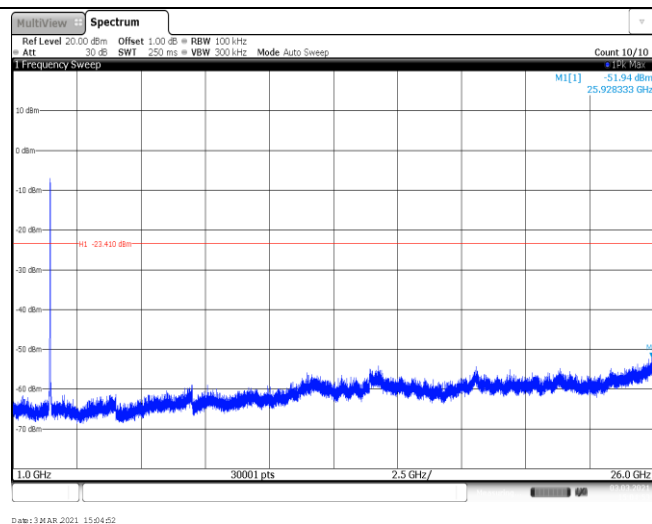
CH06
Reference level



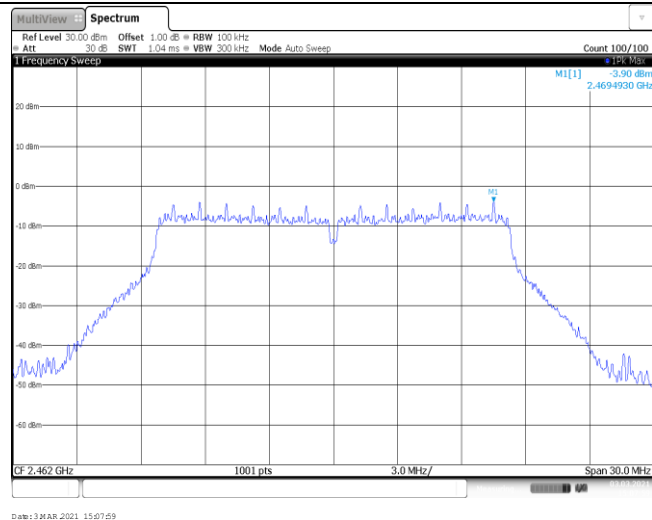
CH06
30MHz~1000MHz



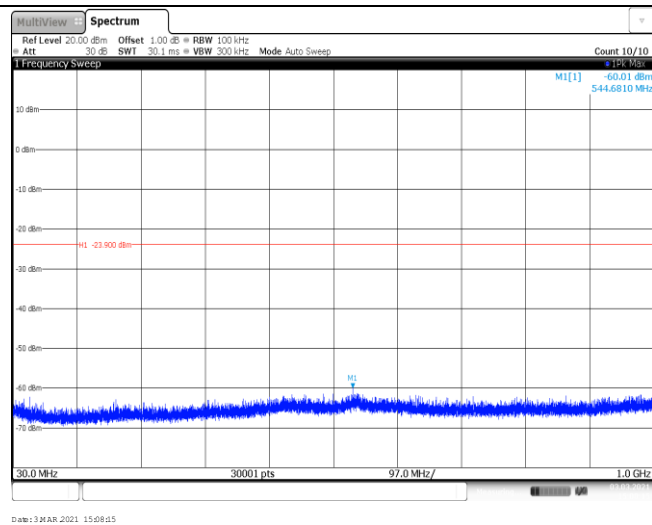
CH06
1GHz~26GHz



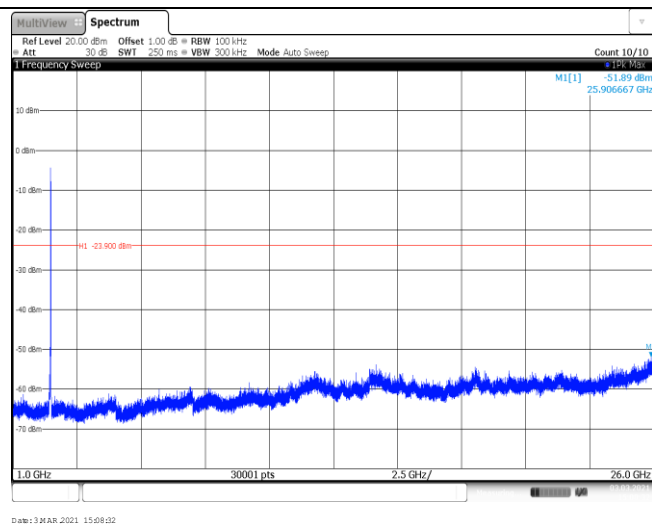
CH11
Reference level

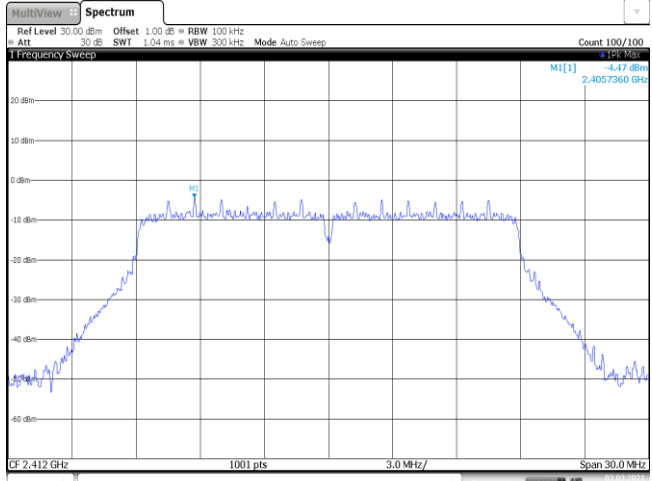
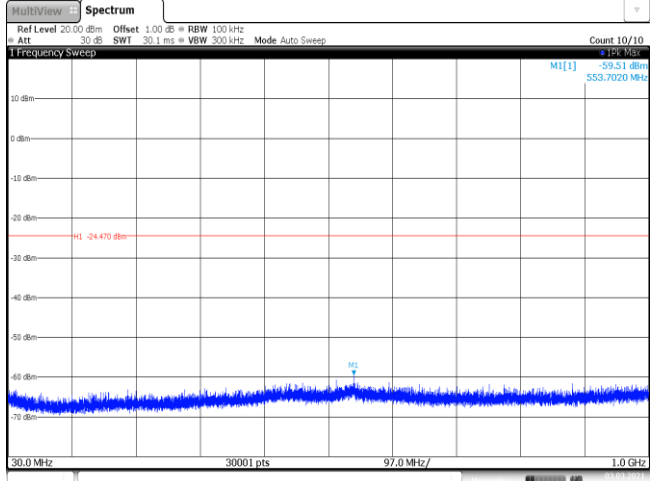
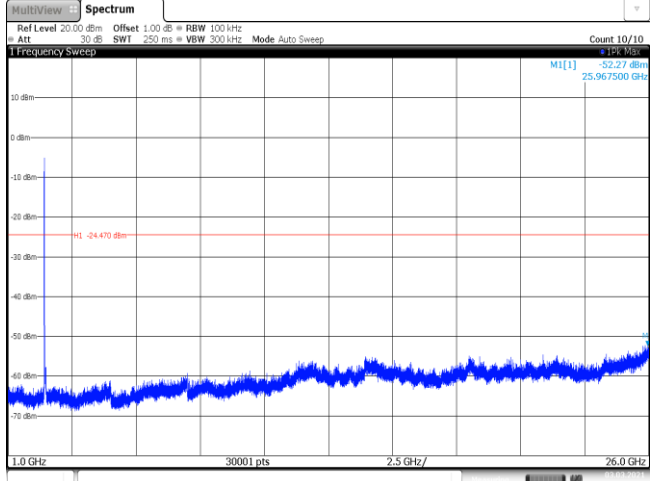


CH11
30MHz~1000MHz

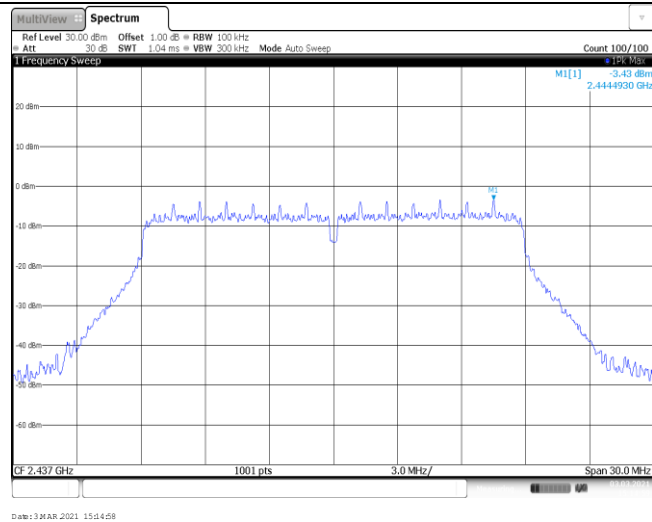


CH11
1GHz~26GHz

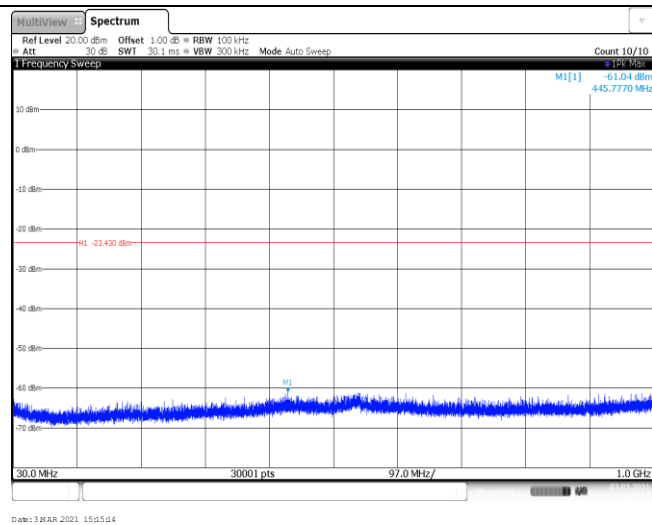


Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level		 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -4.47 dBm 2.4057360 GHz 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 3 MAR 2021 15:11:23	
CH01 30MHz~1000MHz		 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -59.51 dBm 553.7020 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 3 MAR 2021 15:11:40	
CH01 1GHz~26GHz		 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 M1[1] -52.27 dBm 25.967500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 3 MAR 2021 15:11:56	

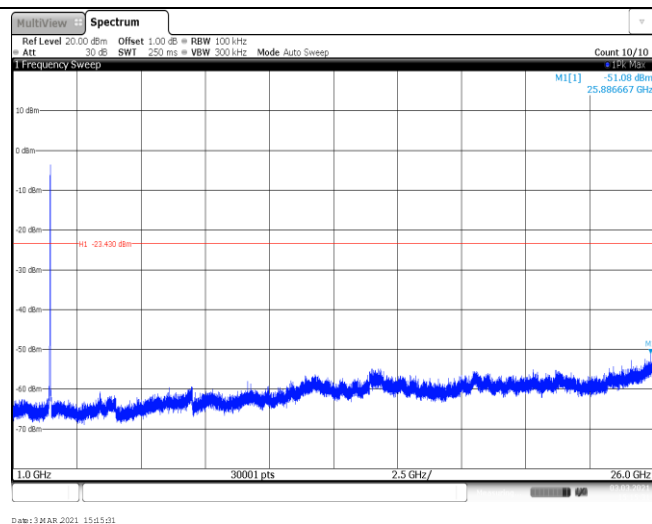
CH06
Reference level



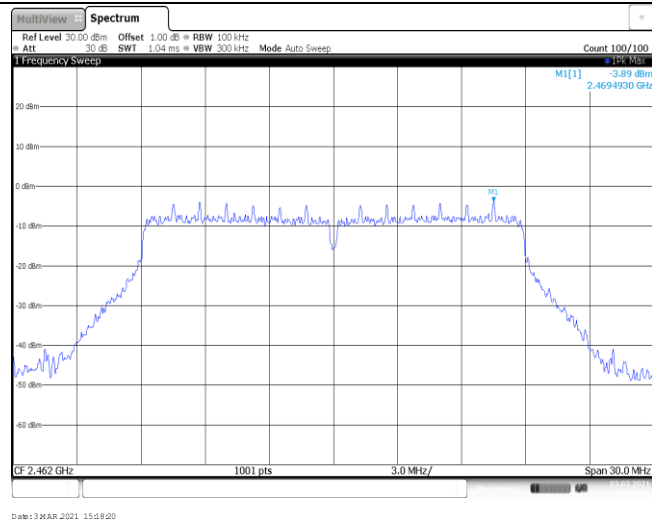
CH06
30MHz~1000MHz



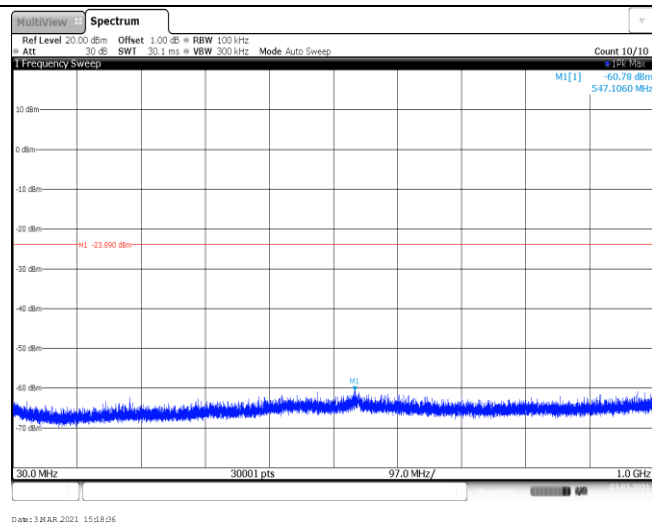
CH06
1GHz~26GHz



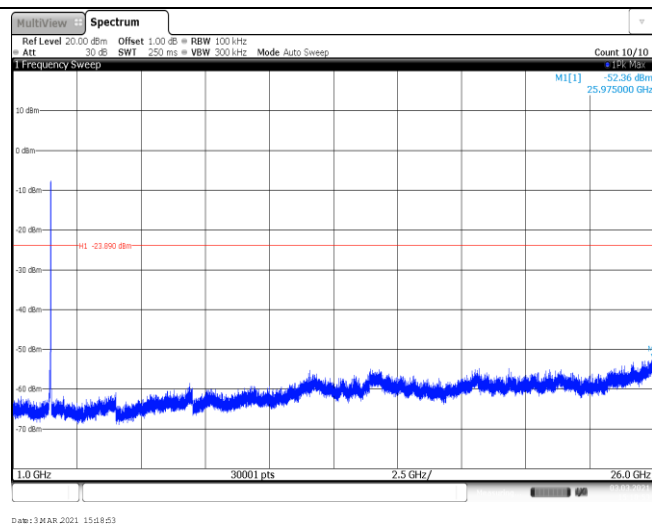
CH11
Reference level

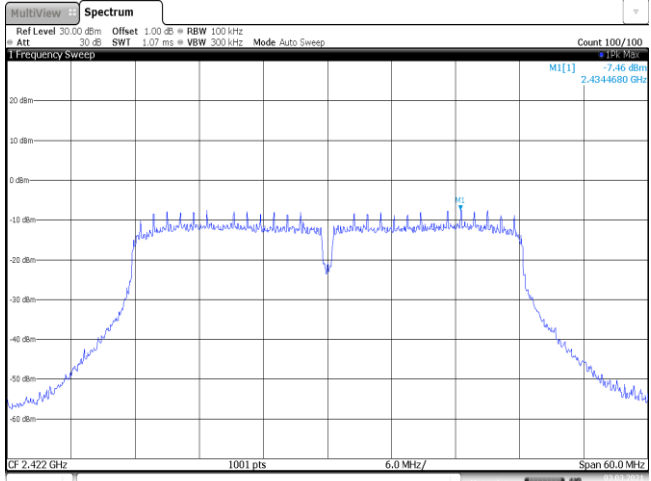
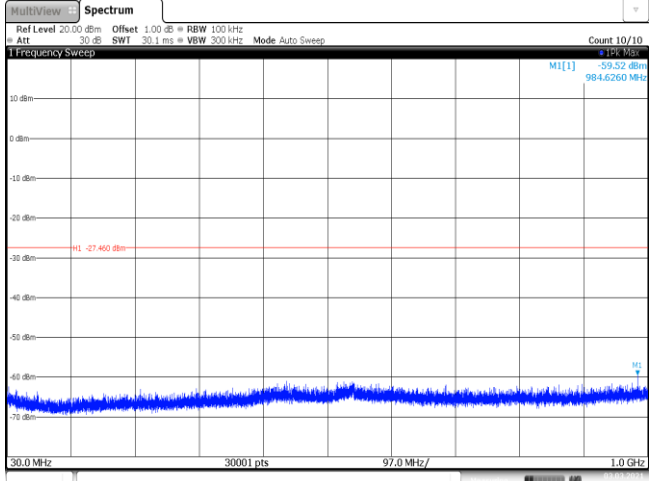
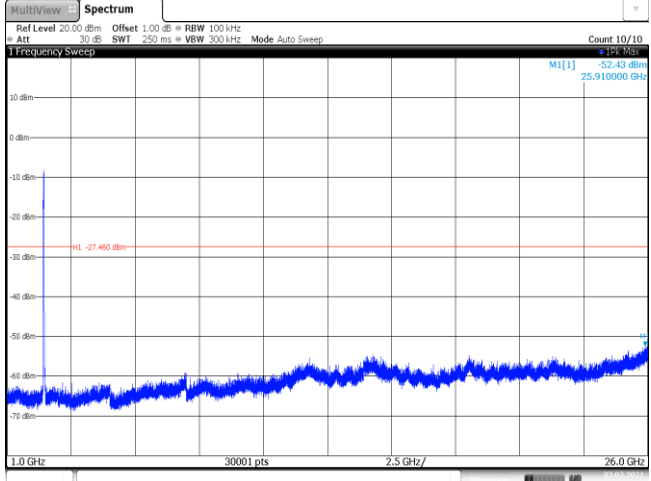


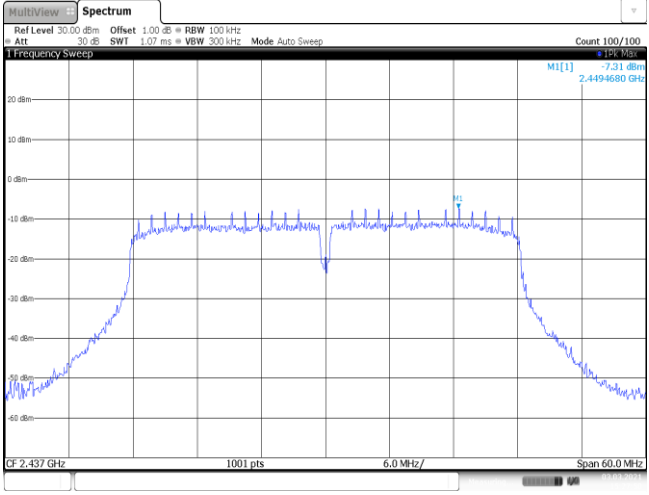
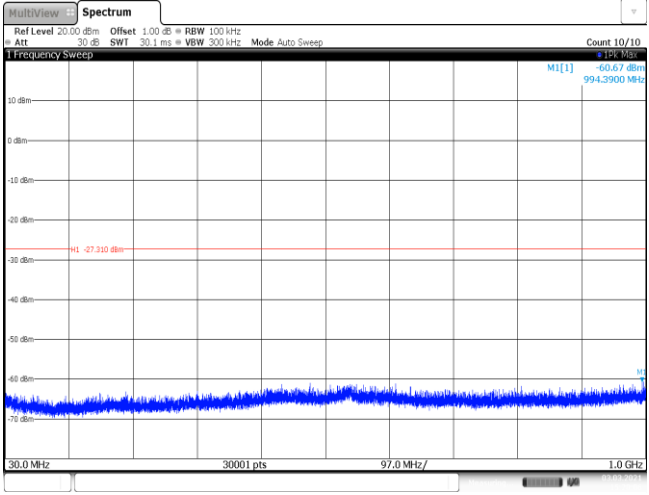
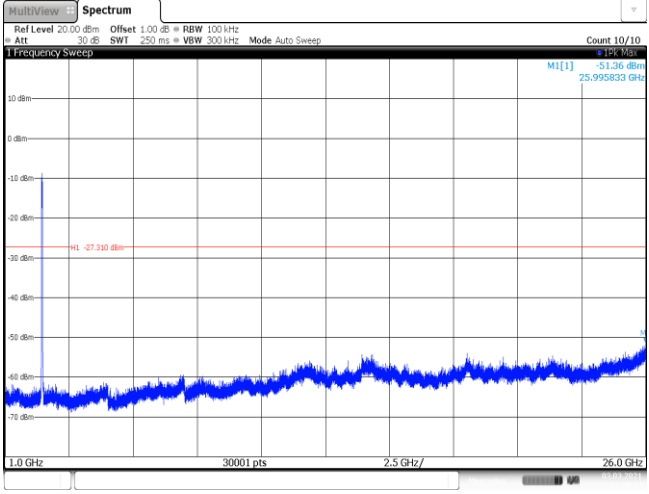
CH11
30MHz~1000MHz



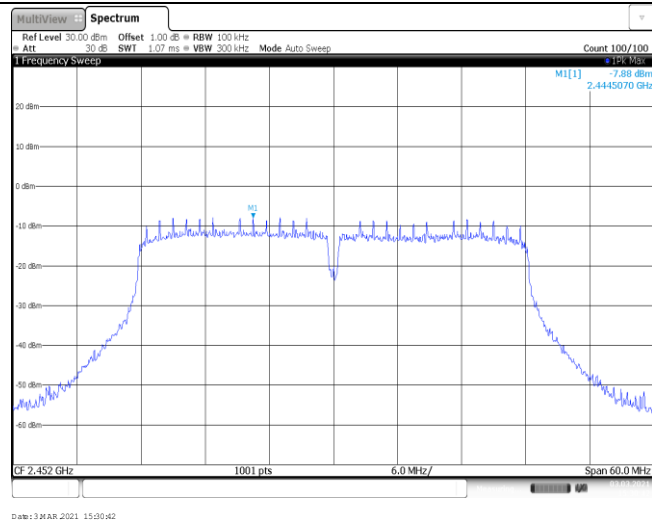
CH11
1GHz~26GHz



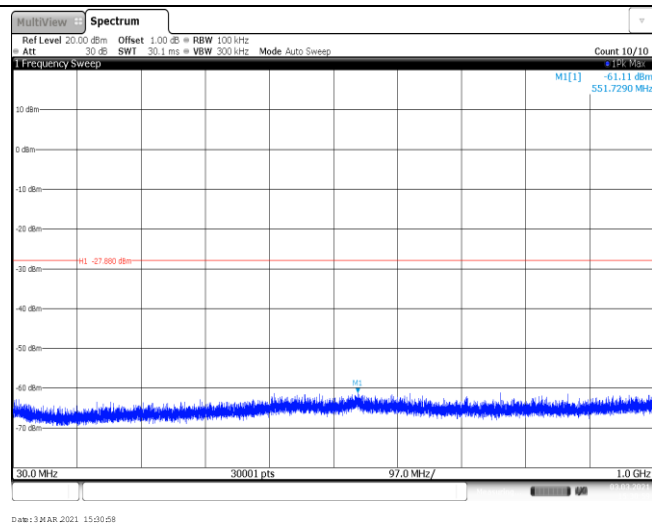
Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level		 CH03 Reference level	
CH03 30MHz~1000MHz		 CH03 30MHz~1000MHz	
CH03 1GHz~26GHz		 CH03 1GHz~26GHz	

CH06 Reference level	 The spectrum plot shows a signal centered at 2.437 GHz. The y-axis represents power in dBm, ranging from -60 to 20. The x-axis represents frequency in MHz, with a span of 60.0 MHz. The signal is a flat line at approximately -10 dBm. The plot includes a grid and a title bar with parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30.0 dB, SWF 1.07 ms, VBW 300 kHz, Mode Auto Sweep. The date is 3 MAR 2021 15:27:50.
CH06 30MHz~1000MHz	 The spectrum plot shows a signal centered at 30.0 MHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 97.0 MHz. The signal is a flat line at approximately -60.67 dBm. The plot includes a grid and a title bar with 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 date is 3 MAR 2021 15:28:06.
CH06 1GHz~26GHz	 The spectrum plot shows a signal centered at 1.0 GHz. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 26.0 GHz. The signal is a flat line at approximately -51.36 dBm. The plot includes a grid and a title bar with 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 date is 3 MAR 2021 15:28:22.

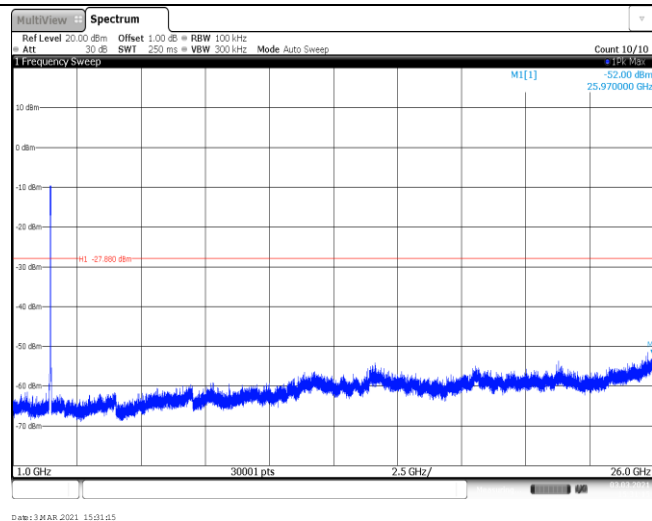
CH09
Reference level



CH09
30MHz~1000MHz



CH09
1GHz~26GHz



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