

APPENDIX REPORT

Project No.	SHT2108055702EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21080557002	Model No.	ER805-NRQ3
Start test date	2021-08-31	Finish date	2021-09-01
Temperature	25.7°C	Humidity	39%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

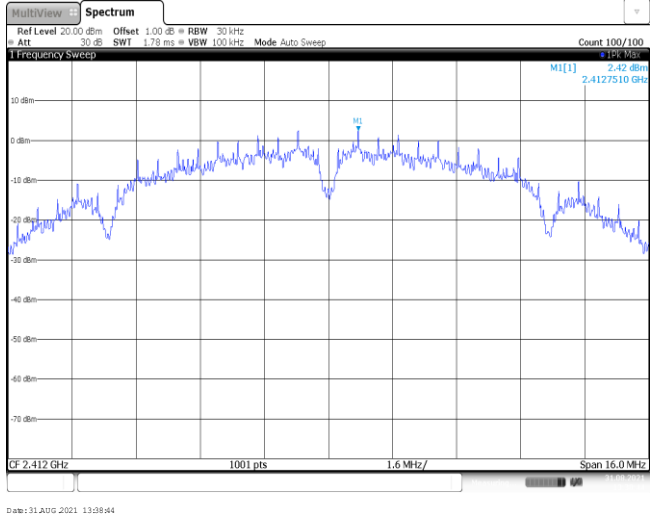
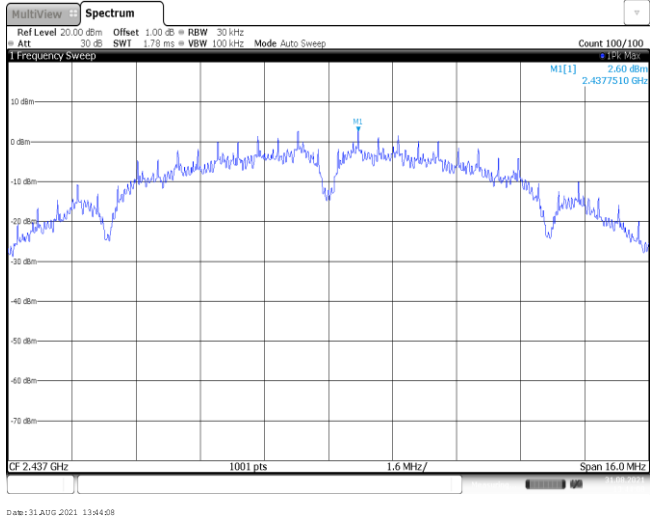
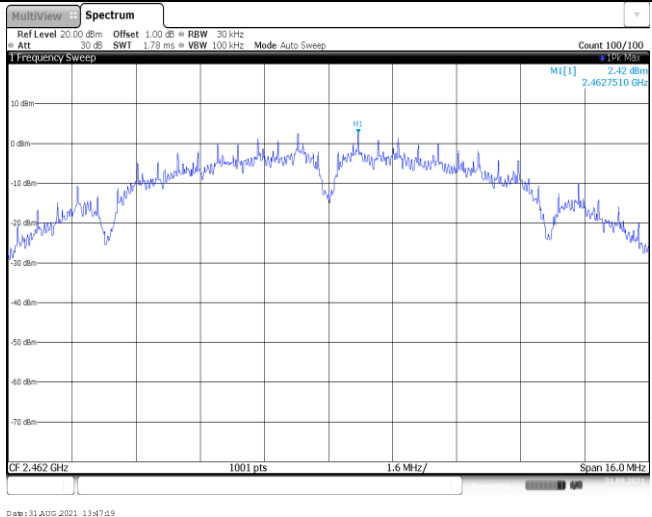
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions(coducted)	PASS

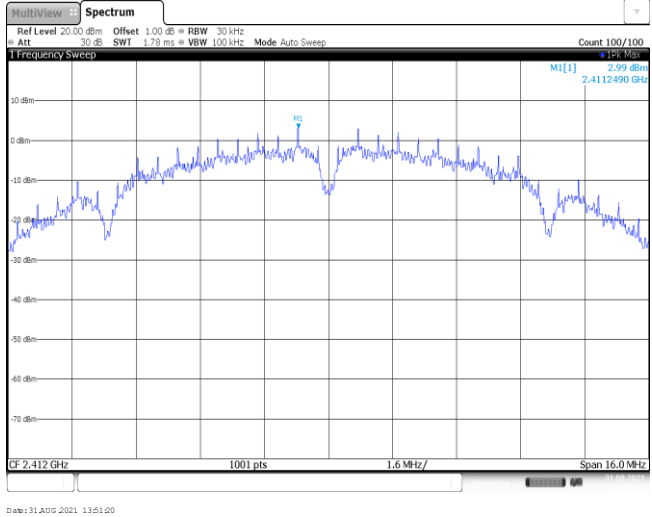
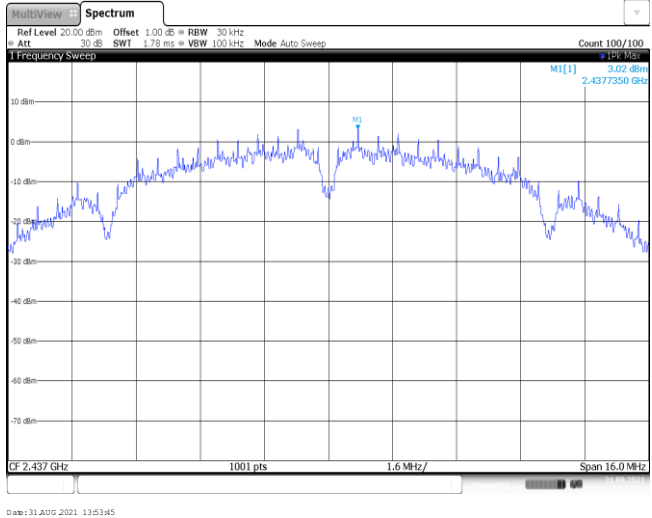
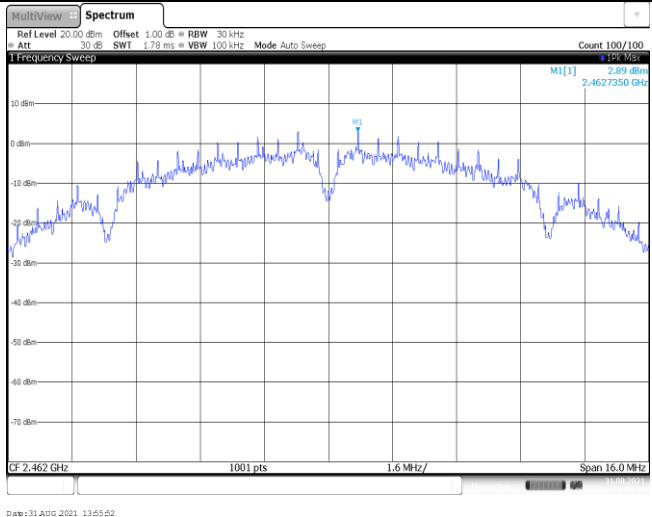
Appendix A: Conducted Peak Output Power

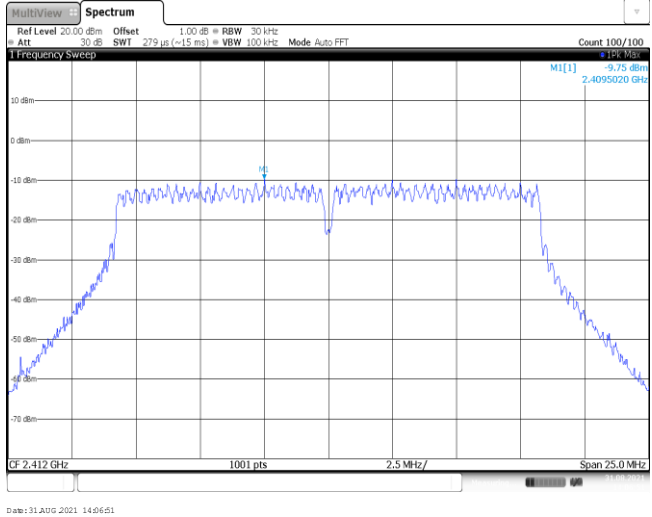
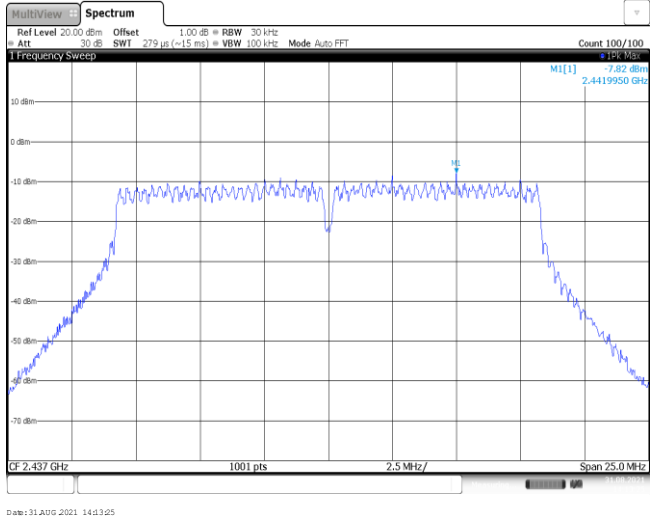
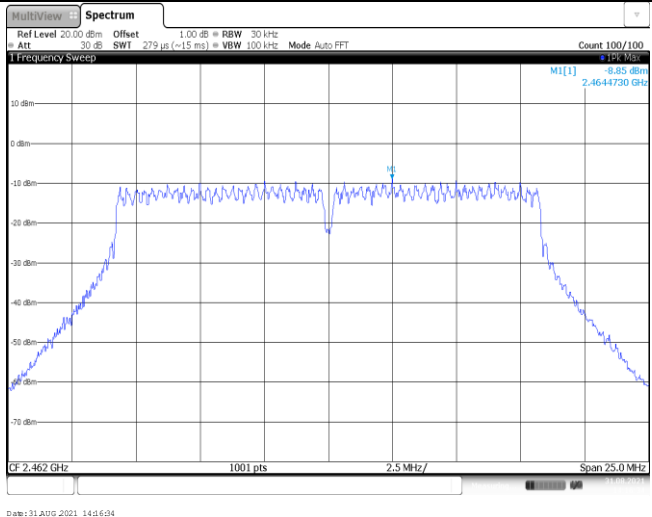
Type	Channel	Peak Output power (dBm)			Average Output power (dBm)			Limit (dBm)	Result
		Antenna 0	Antenna 1	Total	Antenna 0	Antenna 1	Total		
802.11b	01	14.96	15.77	-	12.55	13.34	-	≤30.00	Pass
	06	15.44	15.98	-	12.96	13.54	-		
	11	15.18	14.80	-	12.73	13.12	-		
802.11g	01	14.96	15.54	-	12.51	13.27	-	≤30.00	Pass
	06	15.90	15.81	-	13.06	13.38	-		
	11	15.50	15.51	-	13.04	13.19	-		
802.11n (HT20)	01	11.29	12.55	15.01	9.63	10.79	13.26	≤30.00	Pass
	06	11.75	12.47	15.17	10.24	11.11	13.71		
	11	11.73	12.42	15.07	10.10	10.94	13.55		
802.11n (HT40)	03	11.17	12.47	14.91	9.03	10.40	12.78	≤30.00	Pass
	06	11.46	11.93	14.71	9.40	9.92	12.68		
	09	11.48	11.54	14.51	9.38	9.47	12.44		

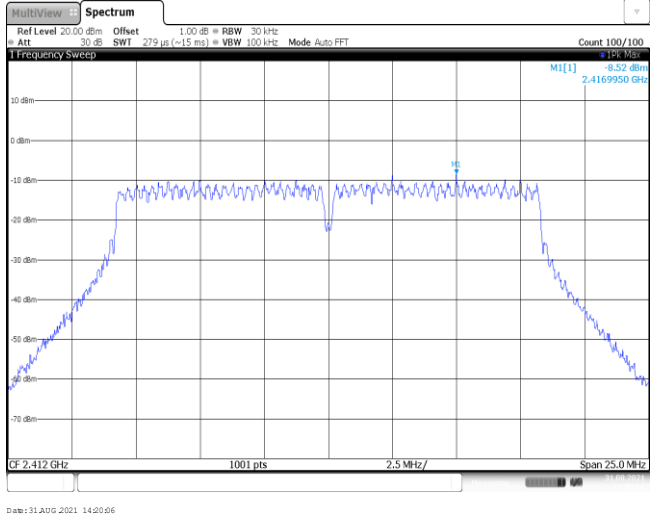
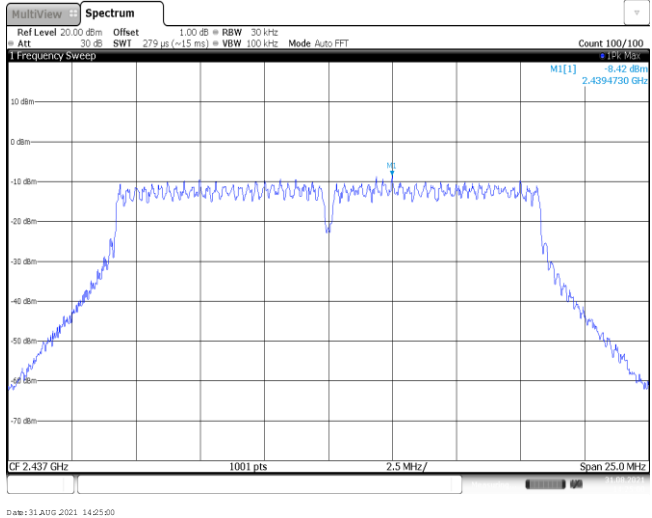
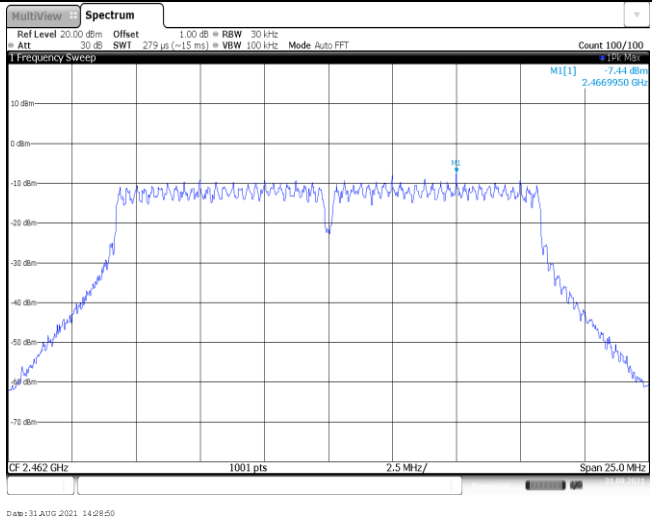
Appendix B: Power Spectral Density

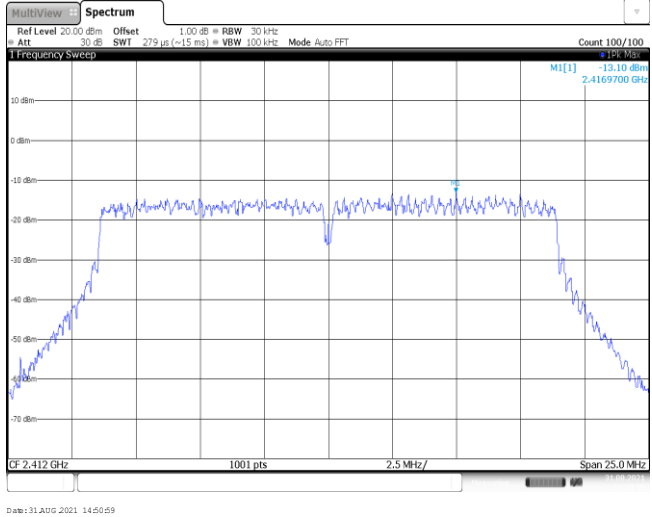
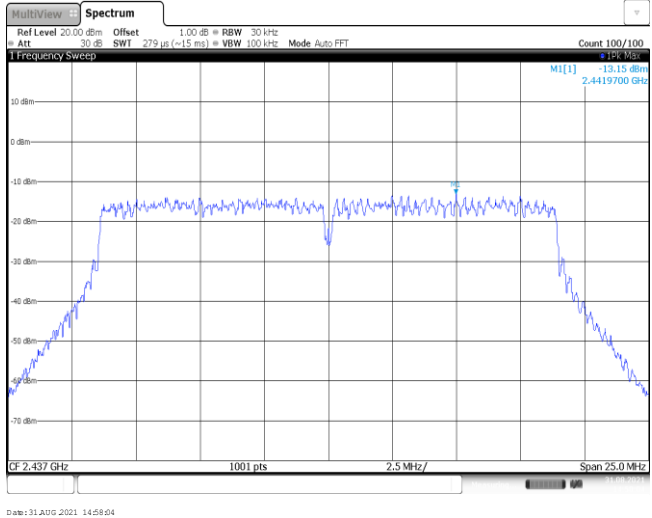
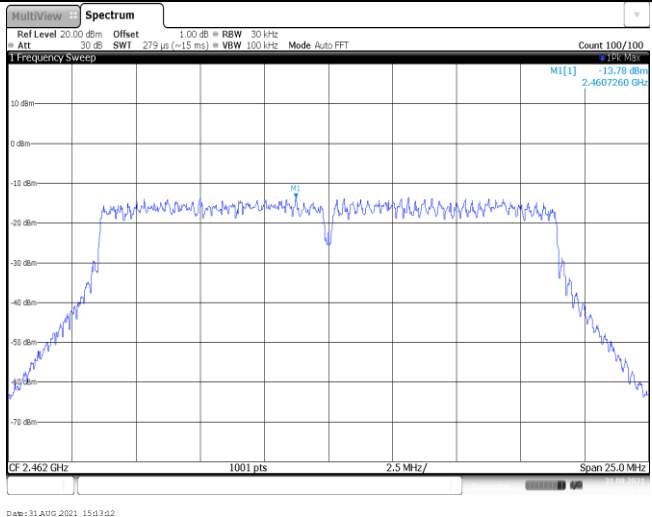
Type	Channel	Power Spectral Density (dBm/30KHz)		Total Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
		Antenna 0	Antenna 1			
802.11b	01	2.42	2.99	--	≤7.99	Pass
	06	2.60	3.02	--		
	11	2.42	2.89	--		
802.11g	01	-9.75	-8.52	--	≤7.99	Pass
	06	-7.82	-8.42	--		
	11	-8.85	-7.44	--		
802.11n(HT20)	01	-13.10	-10.88	-8.84	≤7.99	Pass
	06	-13.15	-12.19	-9.63		
	11	-13.78	-11.39	-9.41		
802.11n(HT40)	03	-16.34	-16.61	-13.46	≤7.99	Pass
	06	-16.48	-16.75	-13.60		
	09	-16.63	-16.08	-13.34		

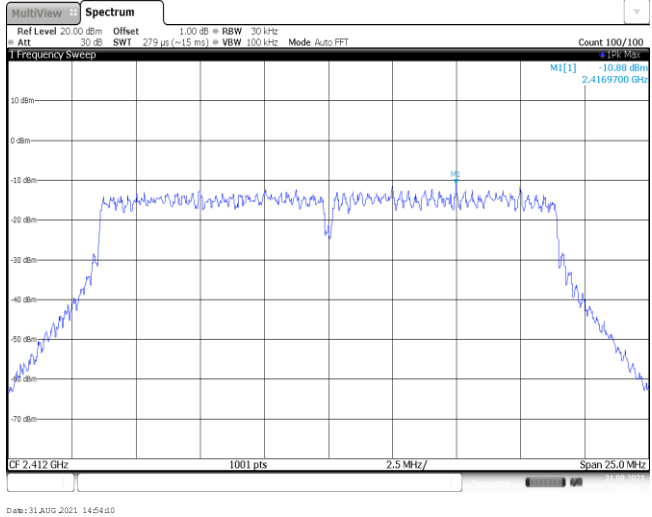
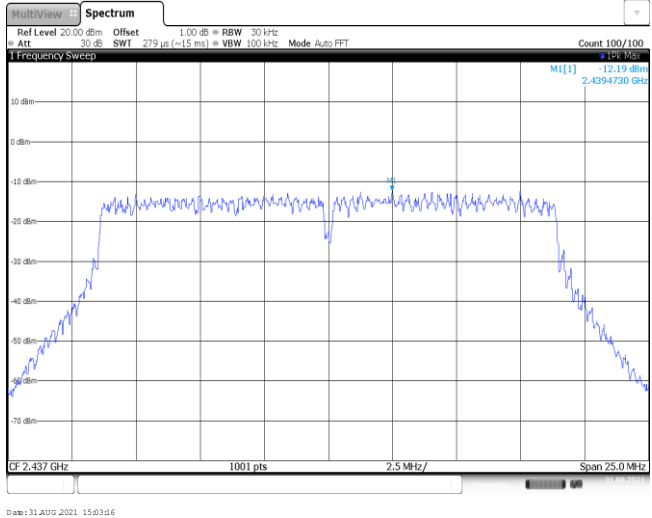
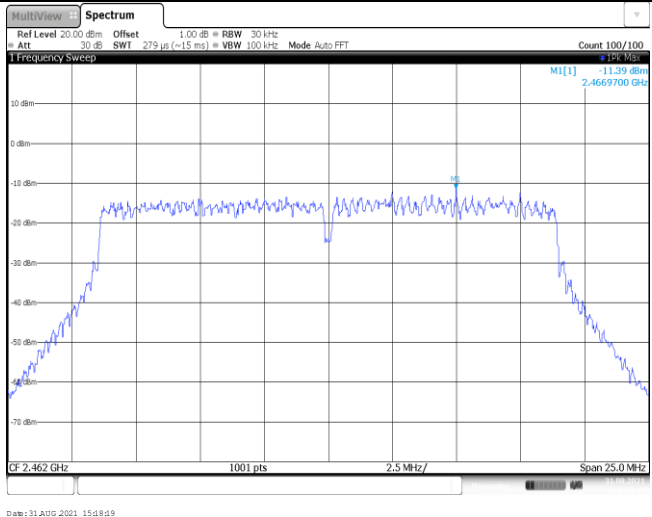
802.11 b		Antenna 0
CH01		
CH06		
CH11		

802.11 b		Antenna 1
CH01	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 1.70 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.99 dBm 2.412490 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 31 AUG 2021 13:53:20</p>	
CH06	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 1.70 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 3.02 dBm 2.4377350 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 31 AUG 2021 13:53:45</p>	
CH11	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 1.70 ms VBW 100 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 2.89 dBm 2.4627350 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 31 AUG 2021 13:55:02</p>	

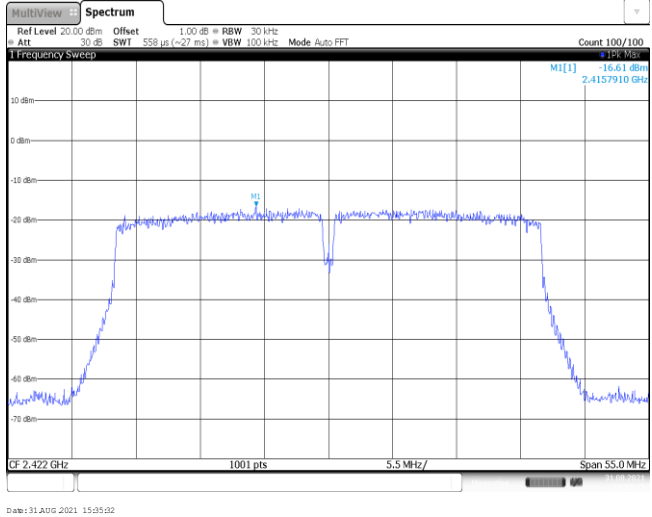
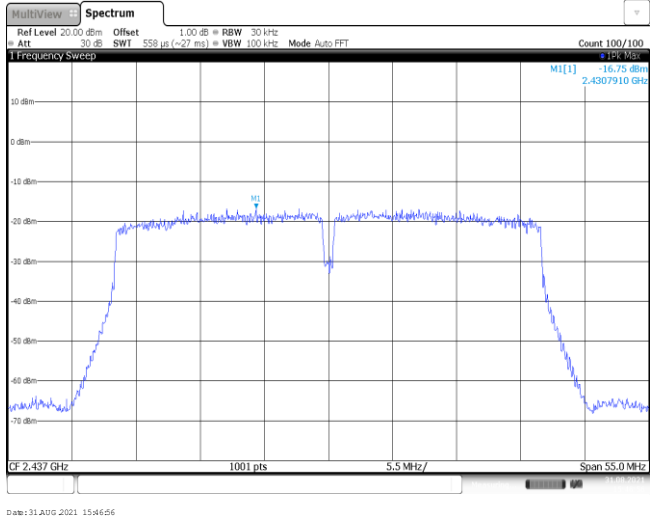
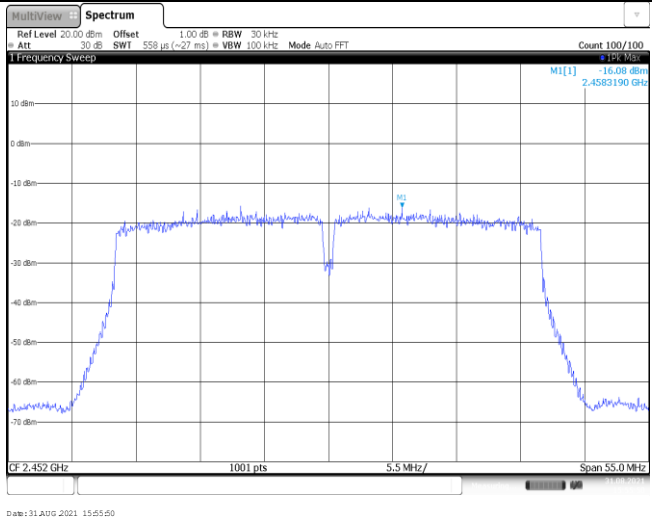
802.11 g		Antenna 0
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT Count 100/100 M1[1] -9.75 dBm 2.4095020 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:06:51</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT Count 100/100 M1[1] -7.82 dBm 2.4419950 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:13:25</p>	
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT Count 100/100 M1[1] -8.85 dBm 2.4644730 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:16:04</p>	

802.11 g		Antenna 1
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -8.52 dBm 2.4169950 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:20:06</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -8.42 dBm 2.4394730 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:25:00</p>	
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -7.44 dBm 2.4669950 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31.AUG.2021 14:28:00</p>	

802.11 n(H20)		Antenna 0
CH01		
CH06		
CH11		

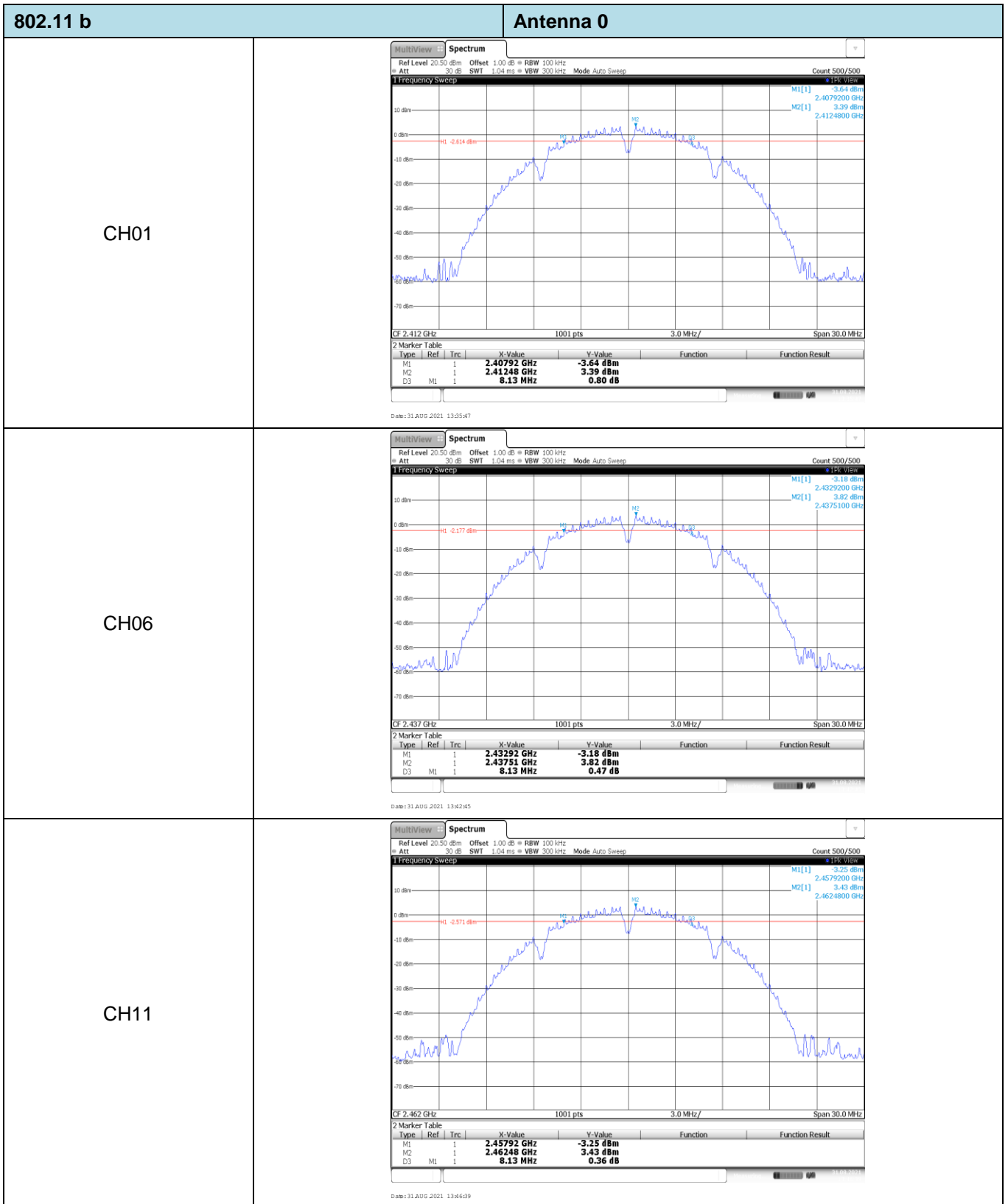
802.11 n(H20)		Antenna 1
CH01	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -10.88 dBm 2.4169700 GHz CF 2.417 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31 AUG 2021 14:54:40</p>	
CH06	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -12.19 dBm 2.4394730 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31 AUG 2021 15:03:16</p>	
CH11	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 279 μs (~15 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M[1] -11.39 dBm 2.4669700 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 31 AUG 2021 15:18:49</p>	

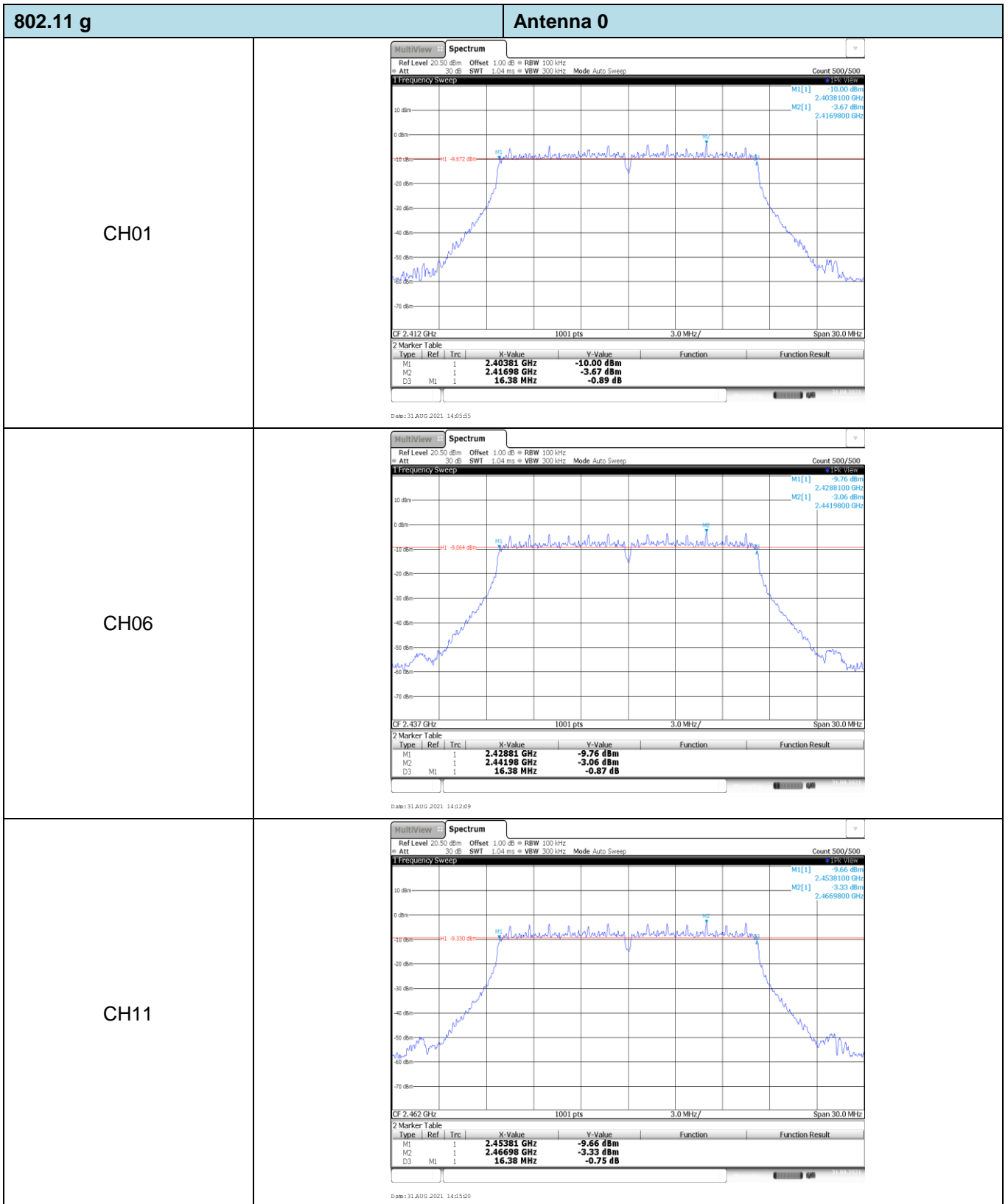
802.11 n(H40)		Antenna 0
CH03	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWI 559 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1(1) -16.34 dBm 2.4344730 GHz CF 2.422 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31 AUG 2021 15:24:56</p>	
CH06	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWI 559 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1(1) -16.48 dBm 2.4457360 GHz CF 2.437 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31 AUG 2021 15:40:24</p>	
CH09	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWI 559 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1(1) -16.63 dBm 2.4644730 GHz CF 2.452 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31 AUG 2021 15:52:29</p>	

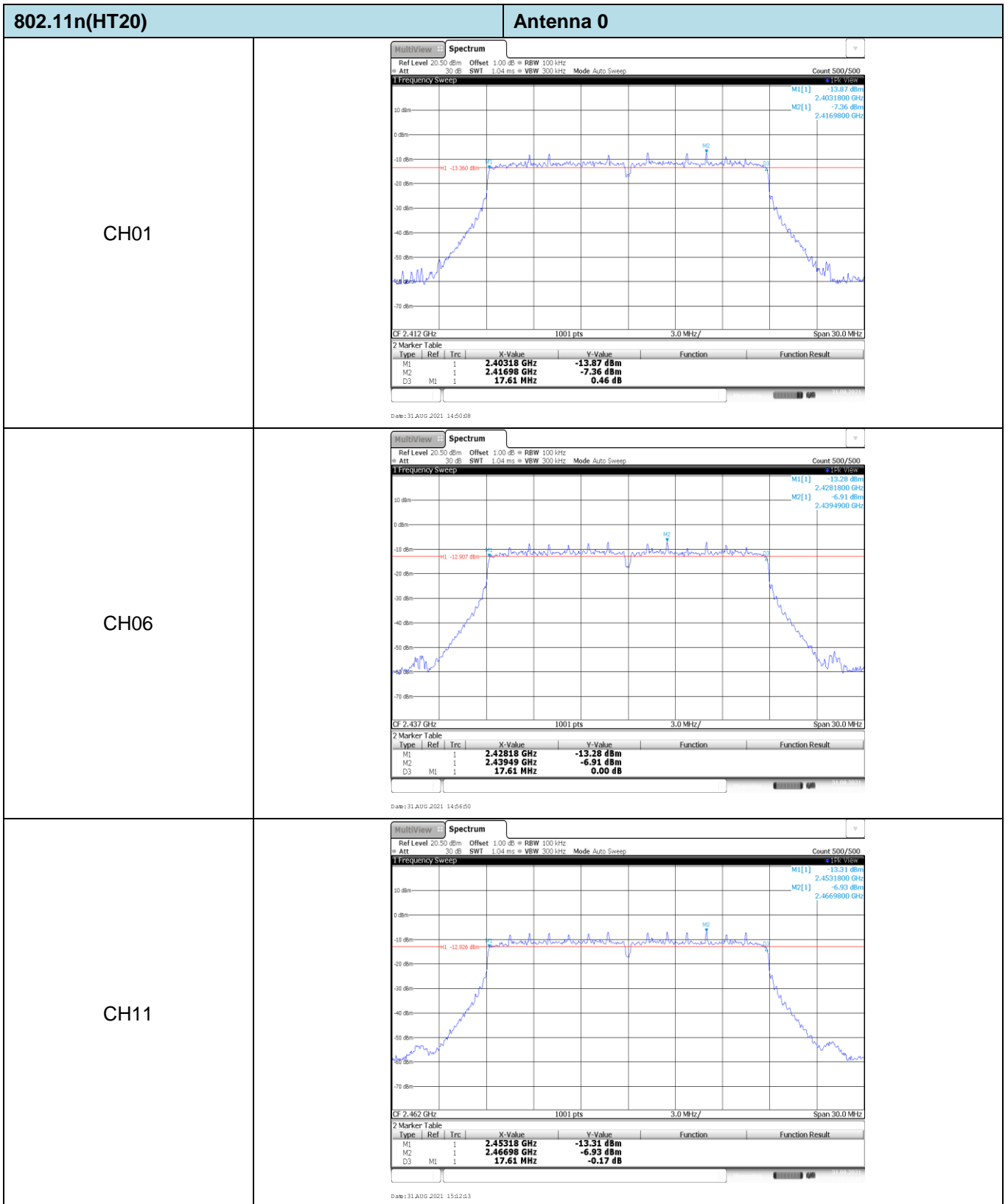
802.11 n(H40)		Antenna 1
CH03	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 558 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -16.61 dBm 2.4157910 GHz CF 2.422 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31.AUG.2021 15:55:52</p>	
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 558 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -16.75 dBm 2.4307910 GHz CF 2.437 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31.AUG.2021 15:56:56</p>	
CH09	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Count 100/100 Att 30 dB SWF 558 us (~27 ms) YBW 100 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -16.08 dBm 2.4583190 GHz CF 2.452 GHz 1001 pts 5.5 MHz/ Span 55.0 MHz Date: 31.AUG.2021 15:55:50</p>	

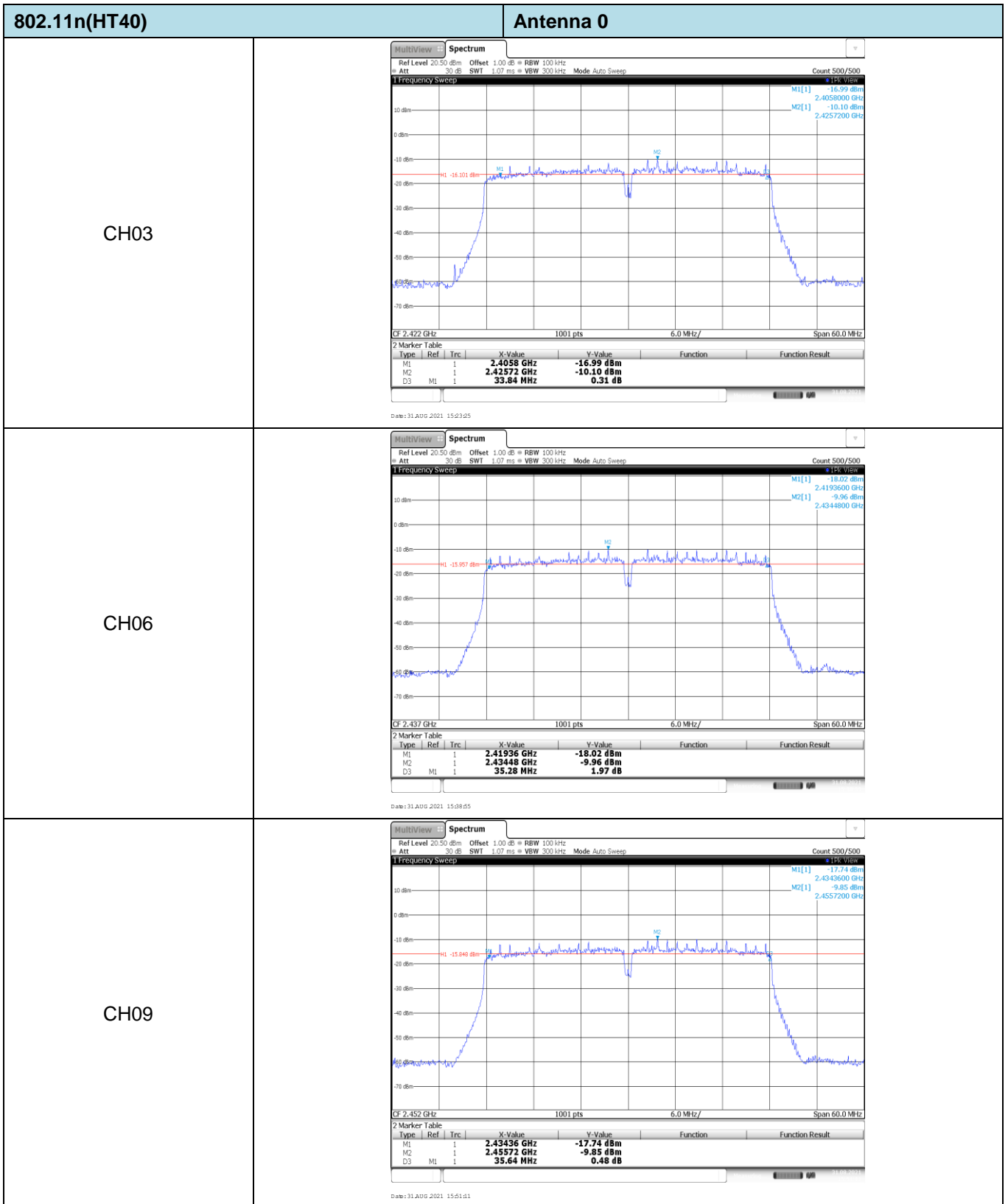
Appendix C: 6dB Bandwidth

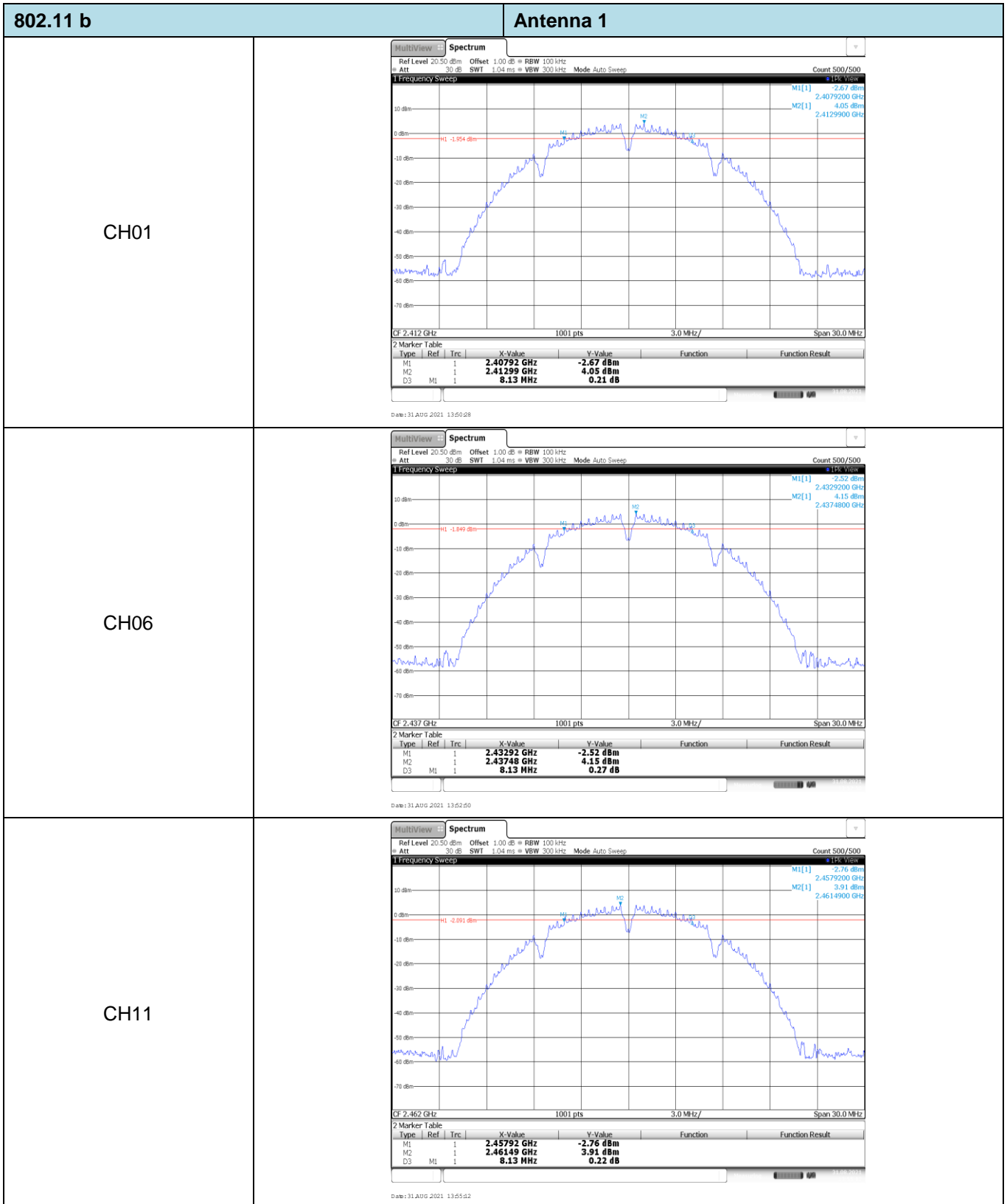
Type	Channel	6dB Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
802.11b	01	8.13	8.13	≥500	Pass
	06	8.13	8.13		
	11	8.13	8.13		
802.11g	01	16.38	16.38	≥500	Pass
	06	16.38	16.38		
	11	16.38	16.38		
802.11n(HT20)	01	17.61	17.61	≥500	Pass
	06	17.61	17.58		
	11	17.61	17.61		
802.11n(HT40)	03	33.84	34.02	≥500	Pass
	06	35.28	35.28		
	09	35.64	35.22		

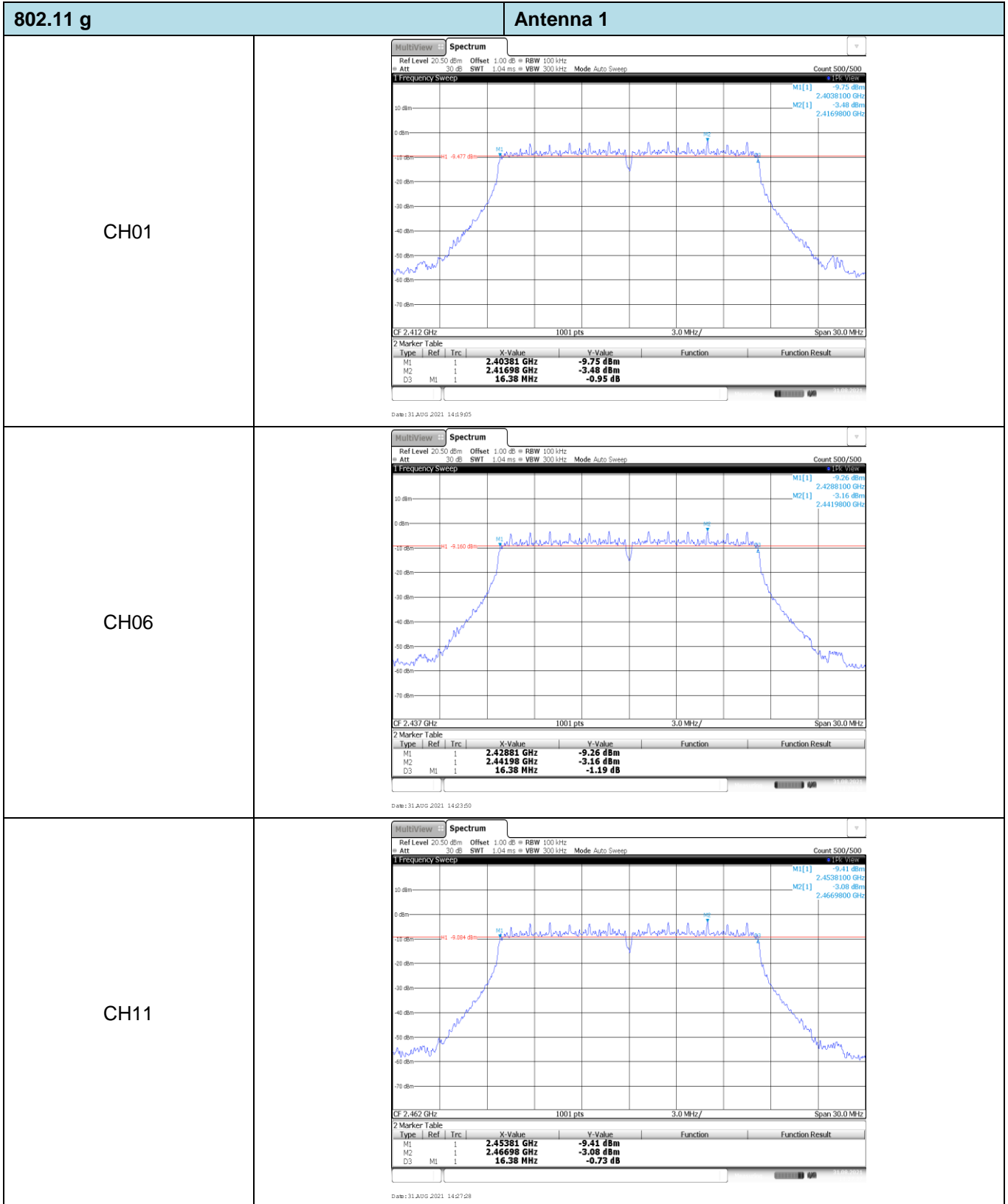


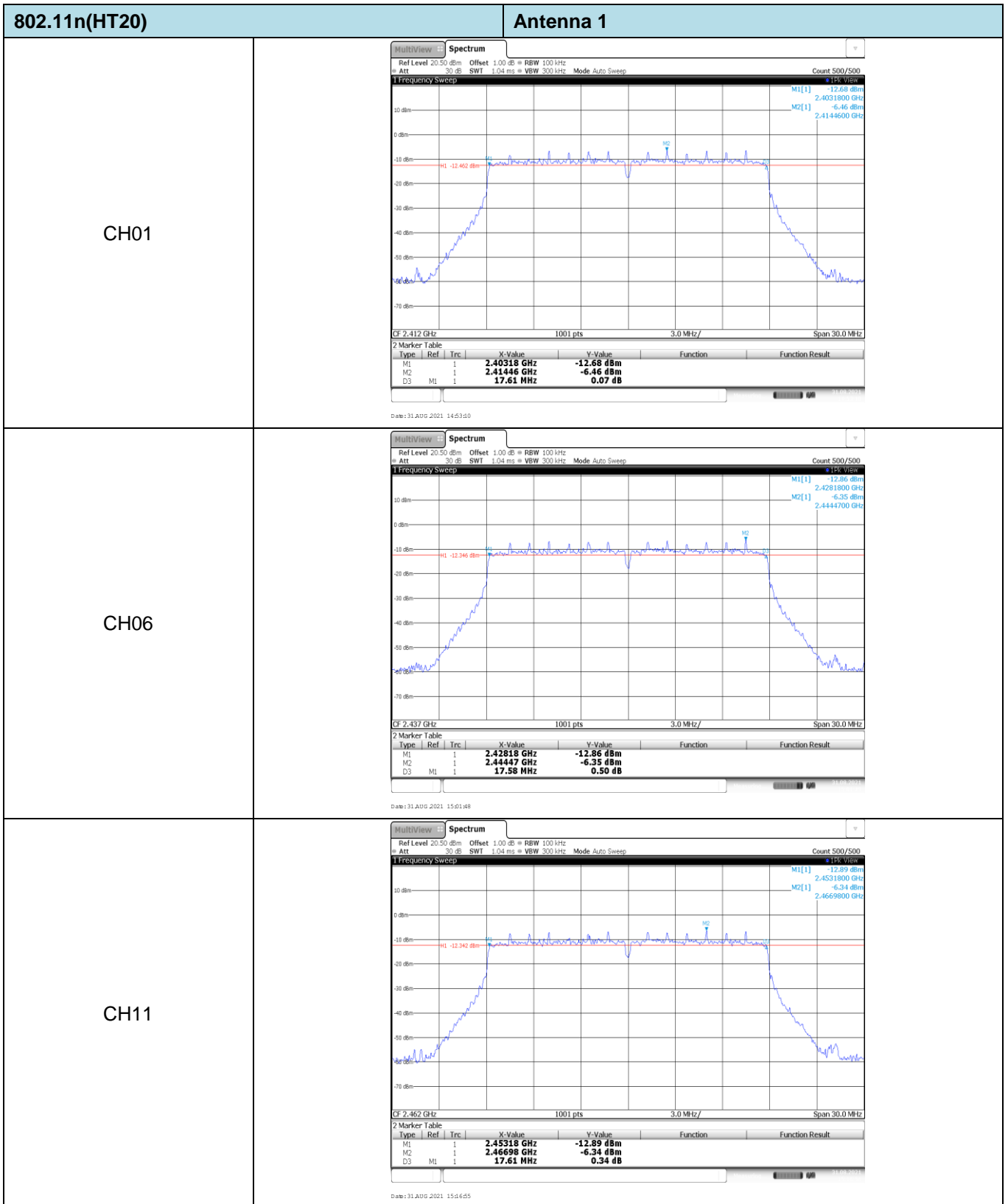


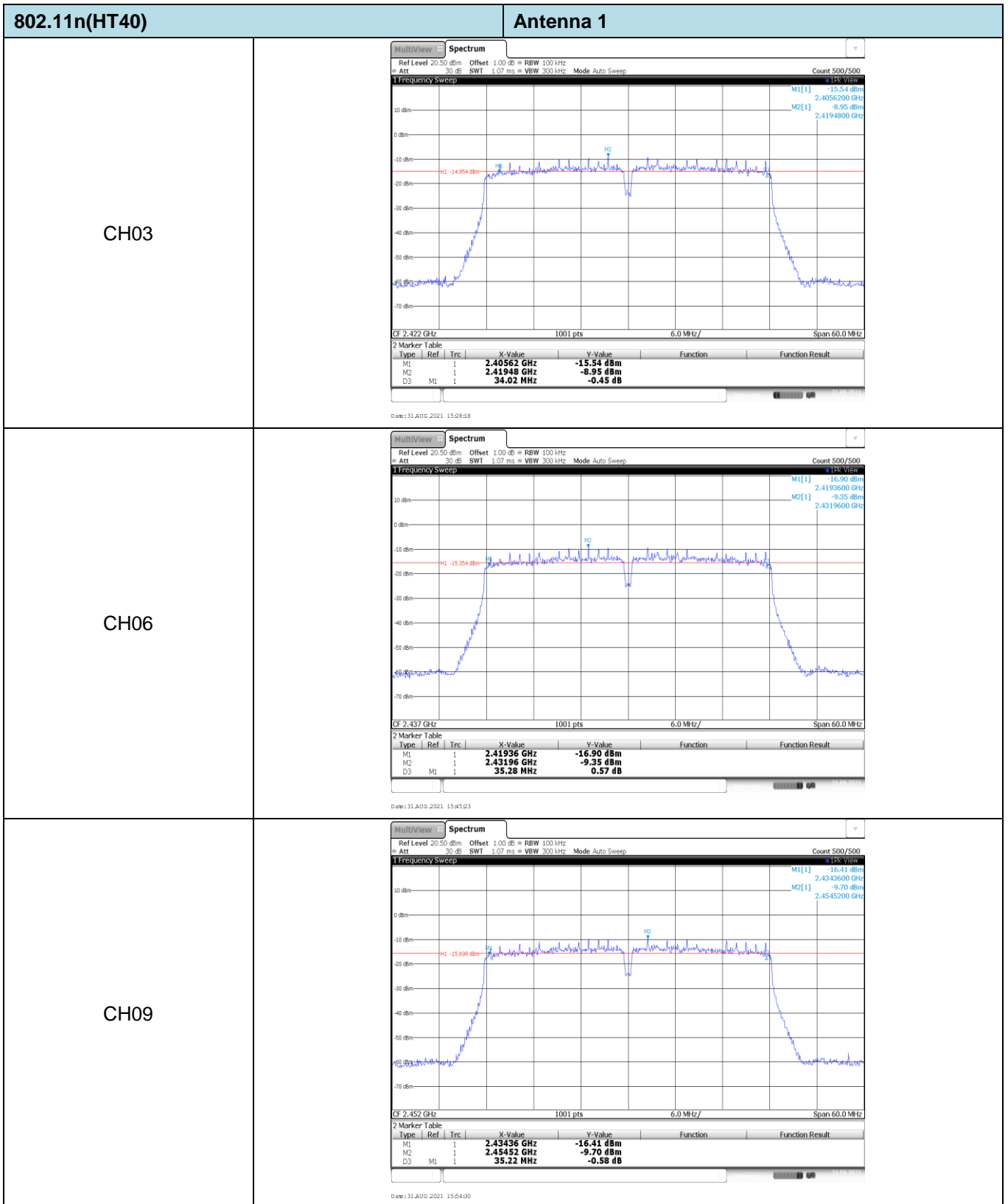












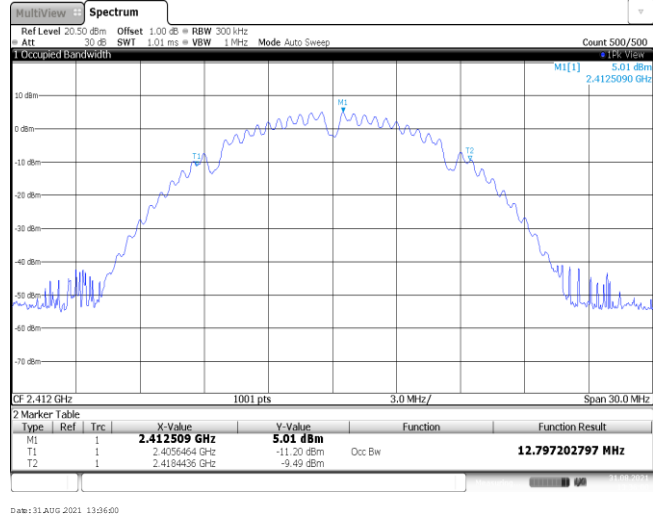
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
802.11b	01	12.80	12.83	-	Pass
	06	12.80	12.80		
	11	12.83	12.80		
802.11g	01	16.45	16.48	-	Pass
	06	16.45	16.45		
	11	16.45	16.45		
802.11n(HT20)	01	17.65	17.62	-	Pass
	06	17.65	17.62		
	11	17.62	17.59		
802.11n(HT40)	03	35.84	35.78	-	Pass
	06	35.84	35.84		
	09	35.90	35.78		

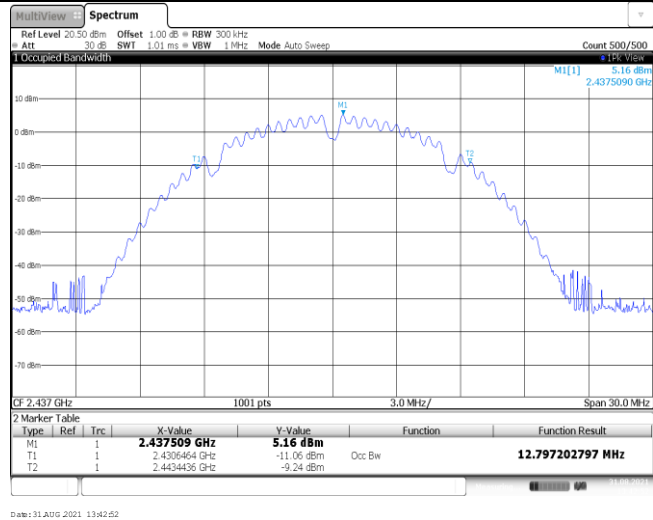
802.11 b

Antenna 0

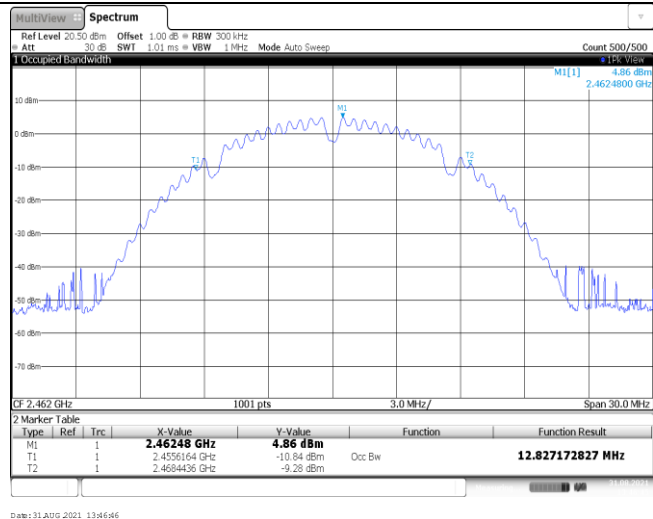
CH01

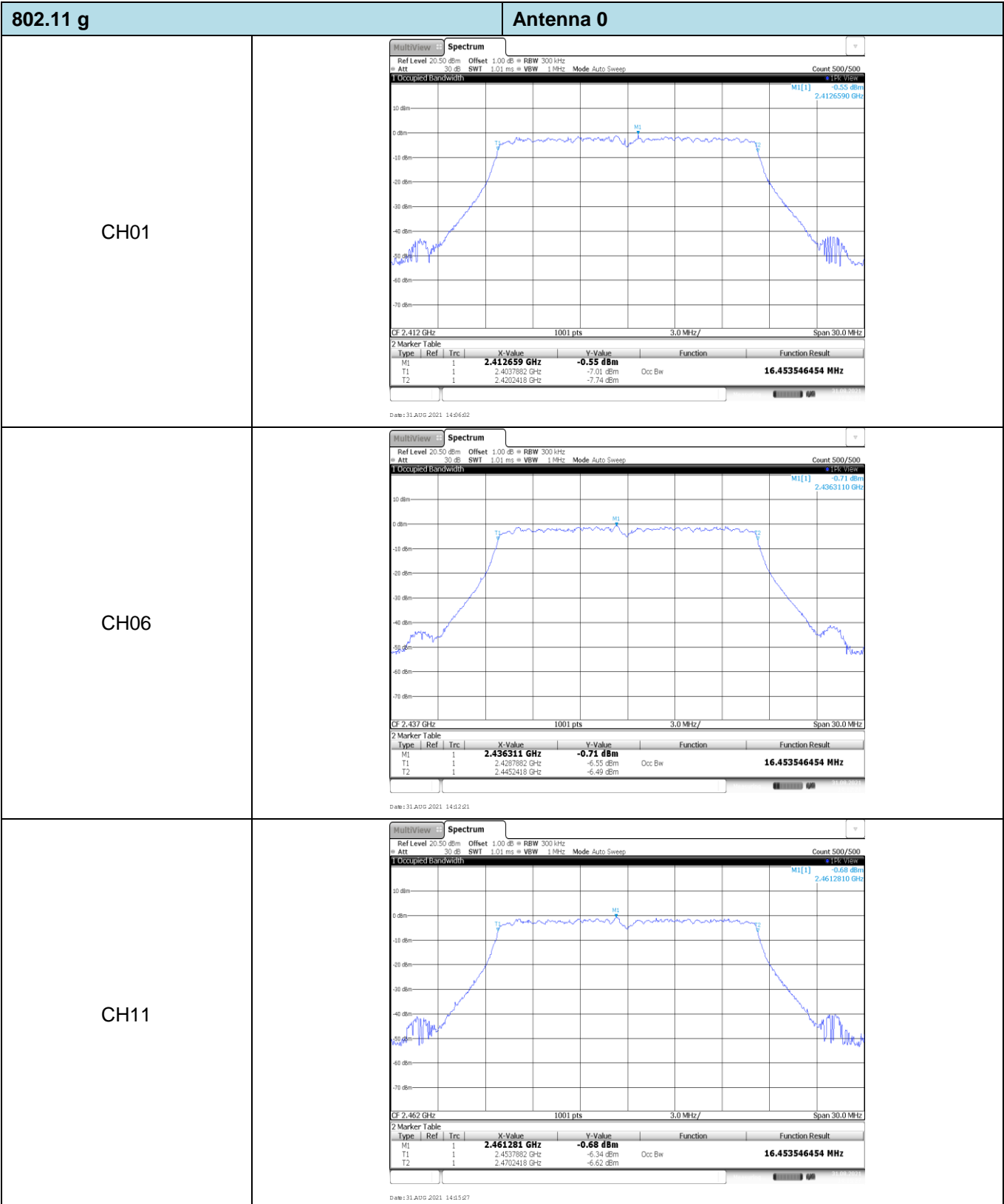


CH06



CH11

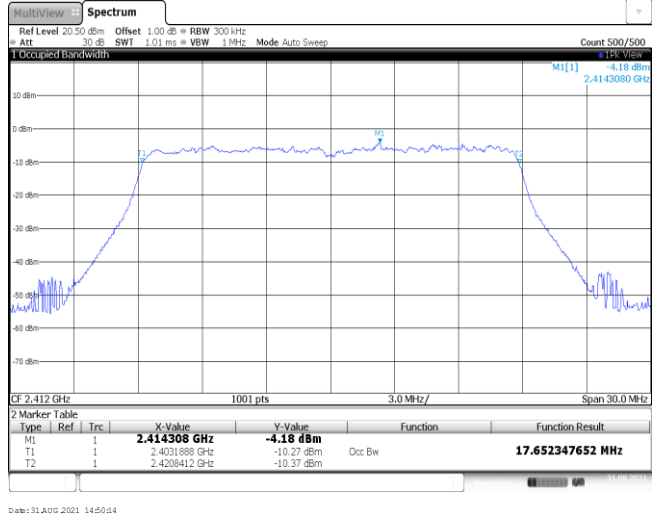




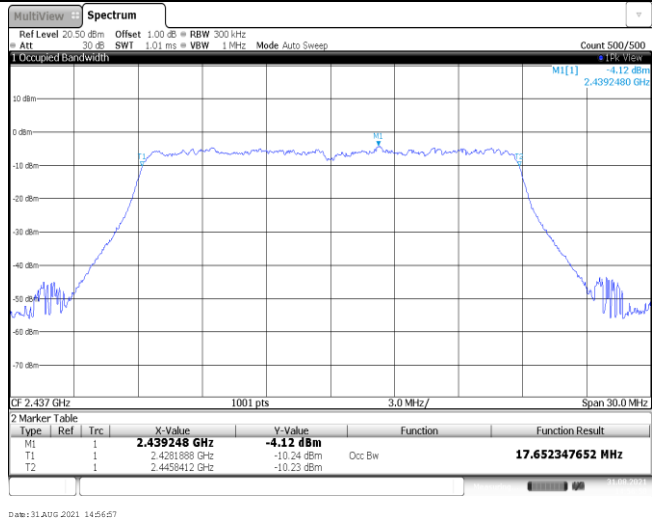
802.11n(HT20)

Antenna 0

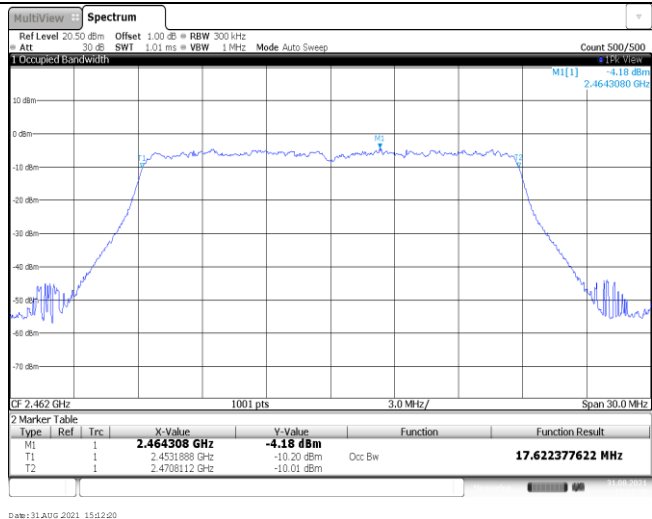
CH01

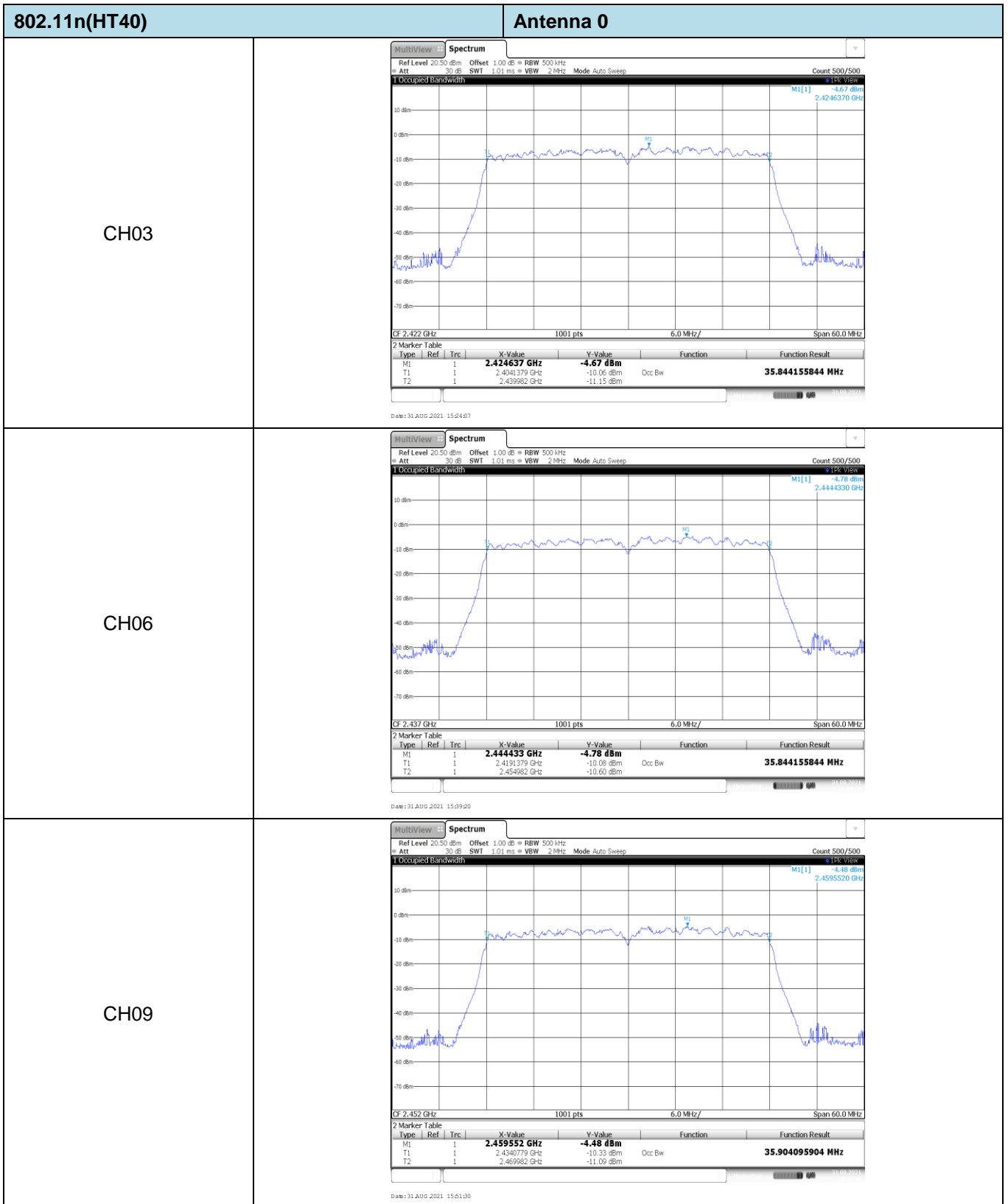


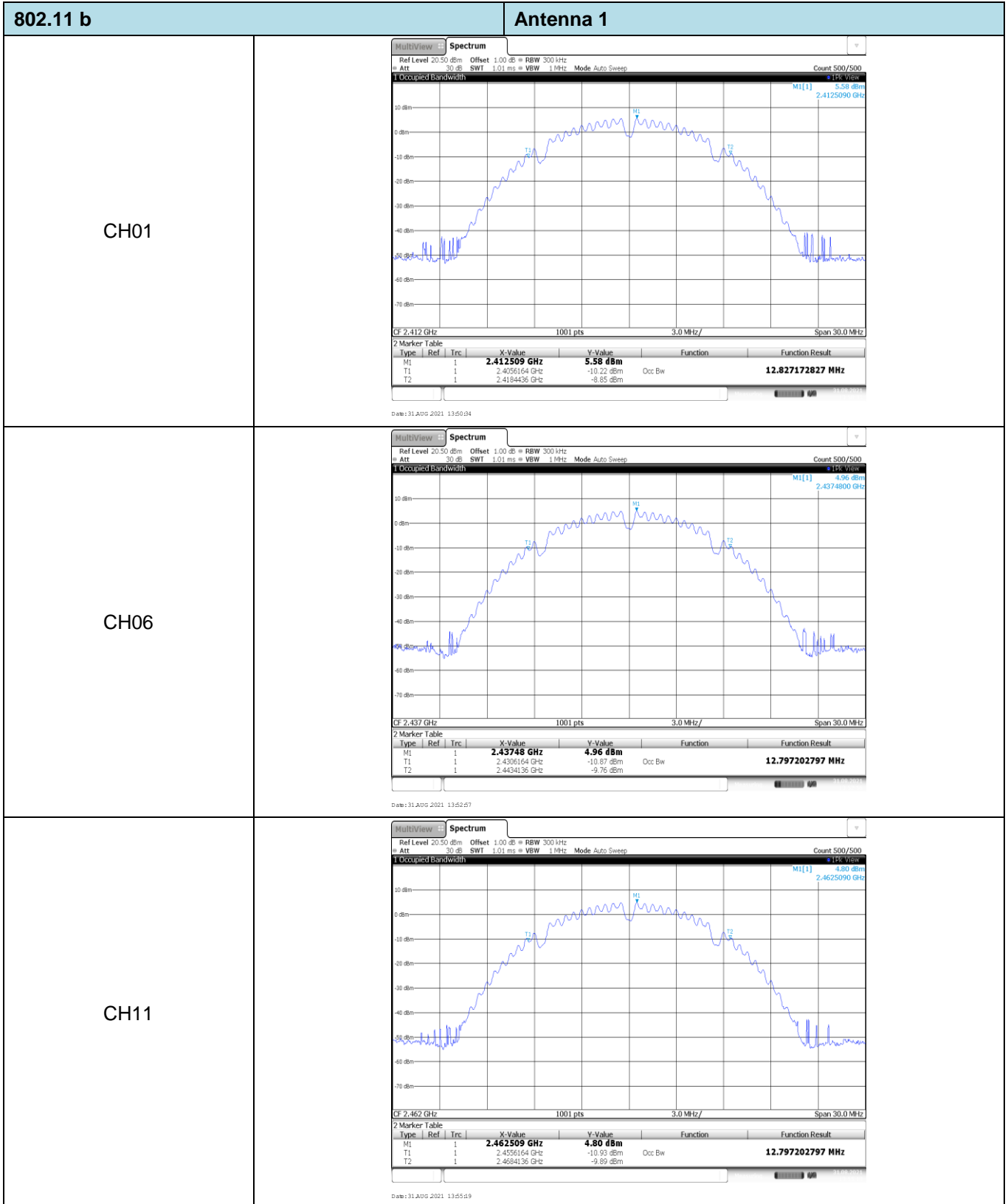
CH06



CH11



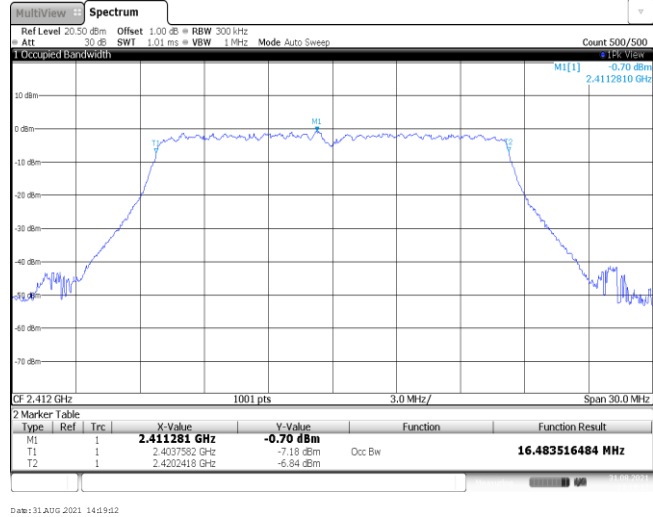




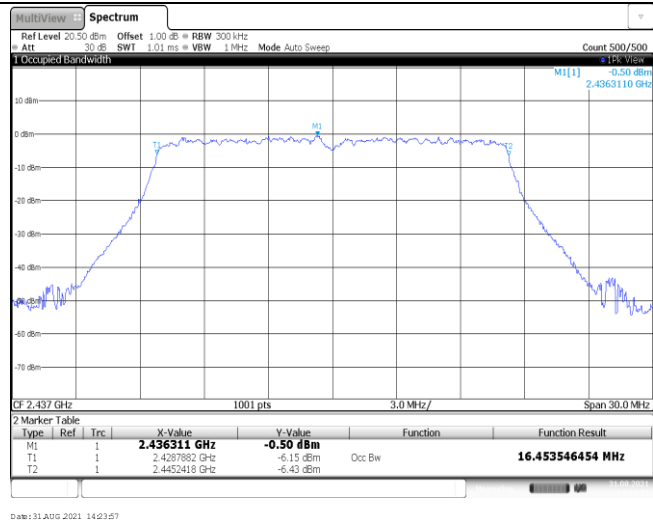
802.11 g

Antenna 1

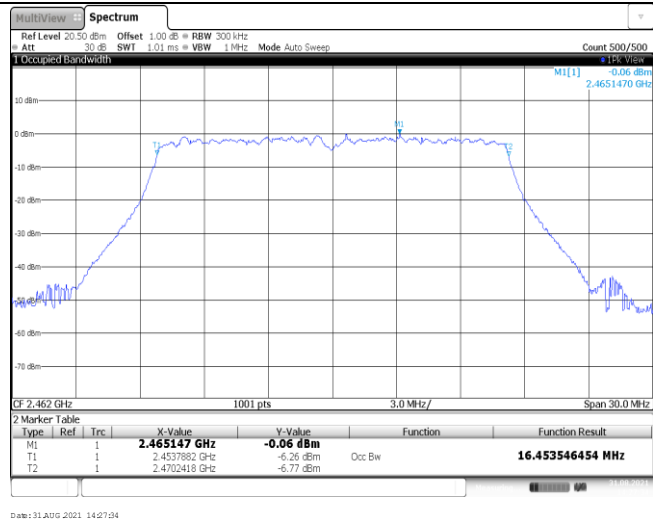
CH01



CH06



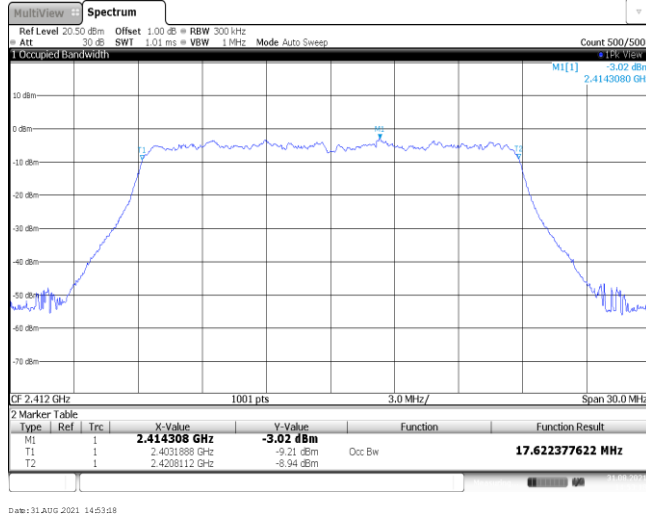
CH11



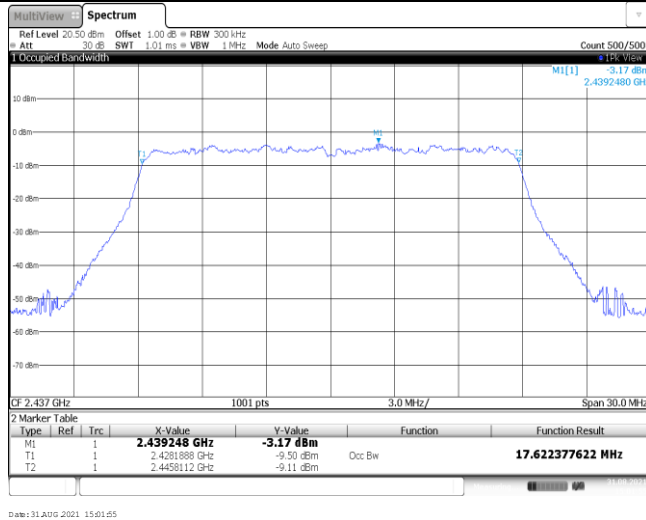
802.11n(HT20)

Antenna 1

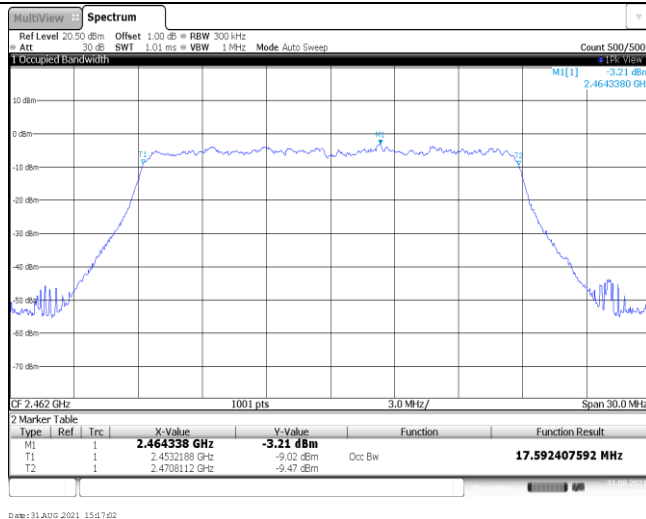
CH01

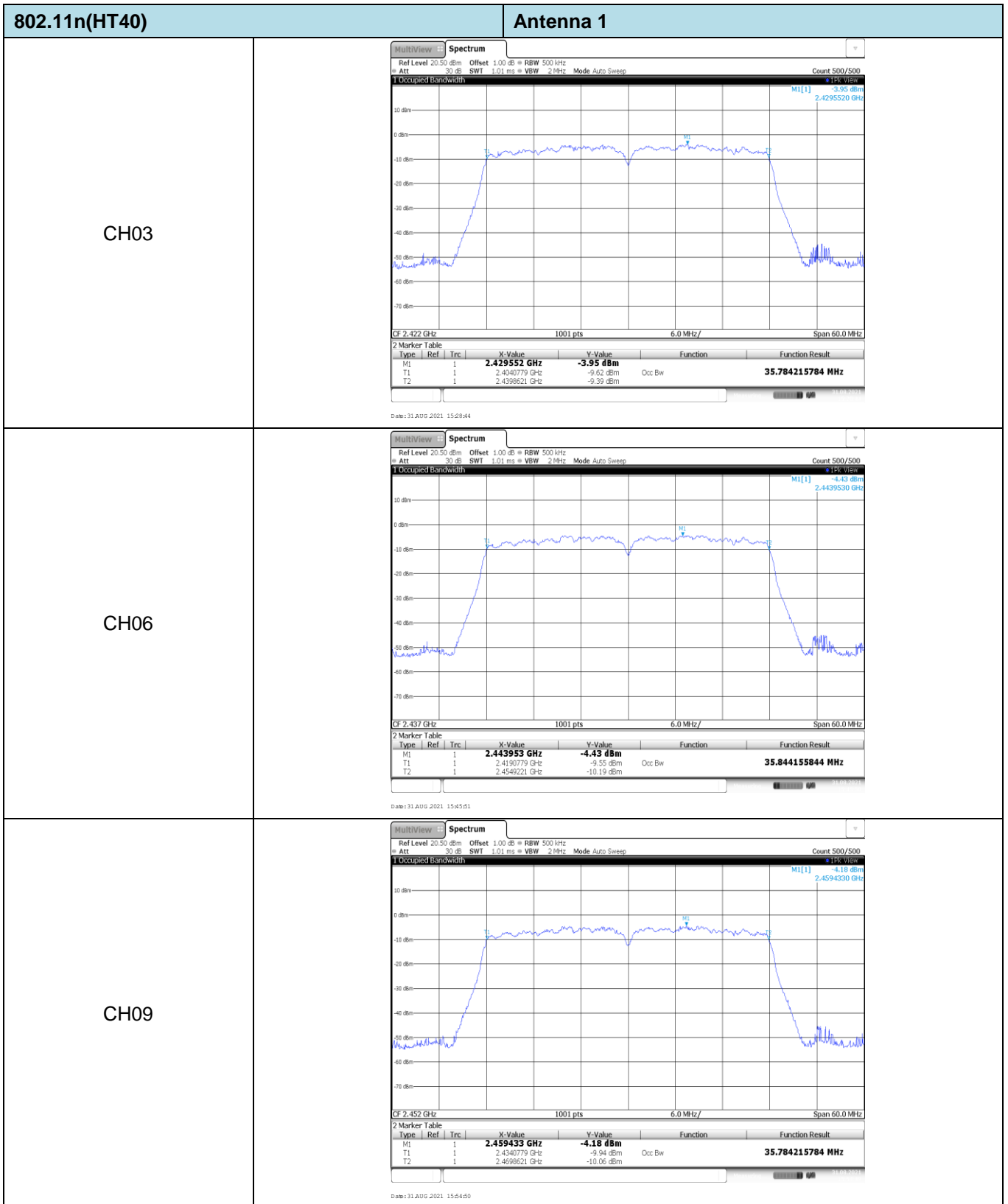


CH06



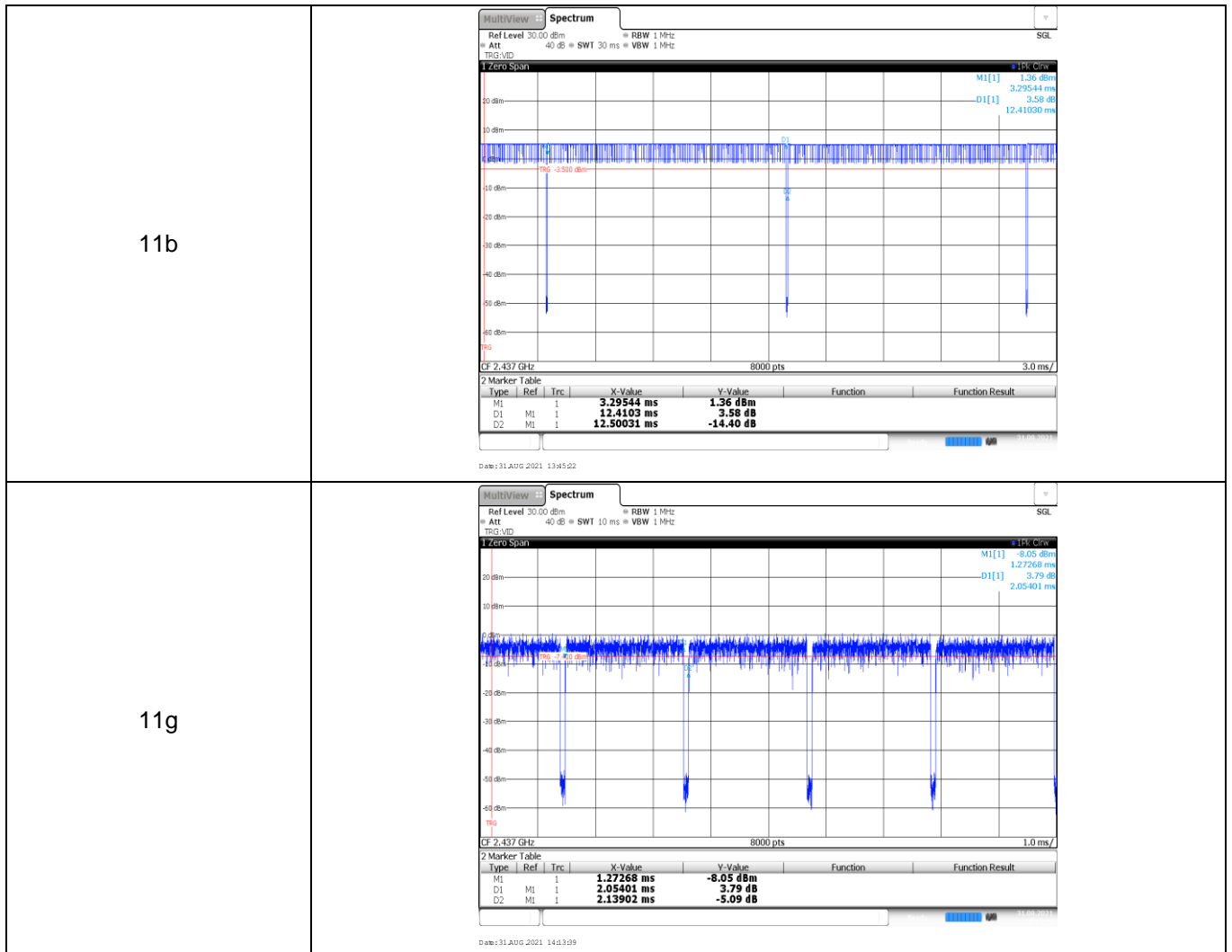
CH11



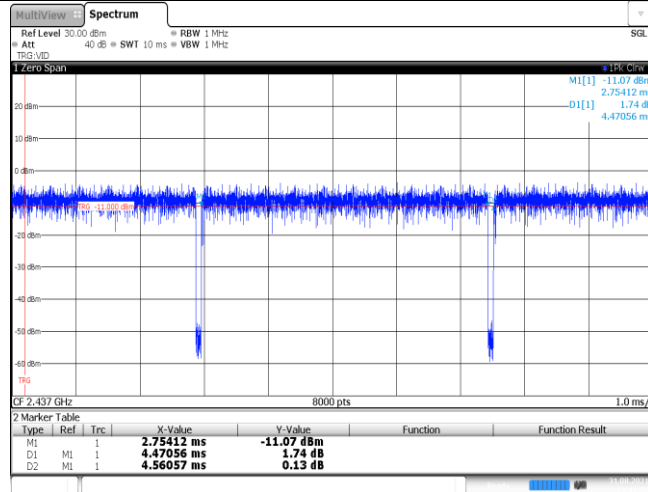


Appendix E: Duty Cycle

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	12.41	12.50	99.3%	0.1
11g	2437	2.05	2.14	95.8%	0.5
11n20	2437	4.47	4.56	98.0%	0.2
11n40	2437	3.26	3.35	97.3%	0.3

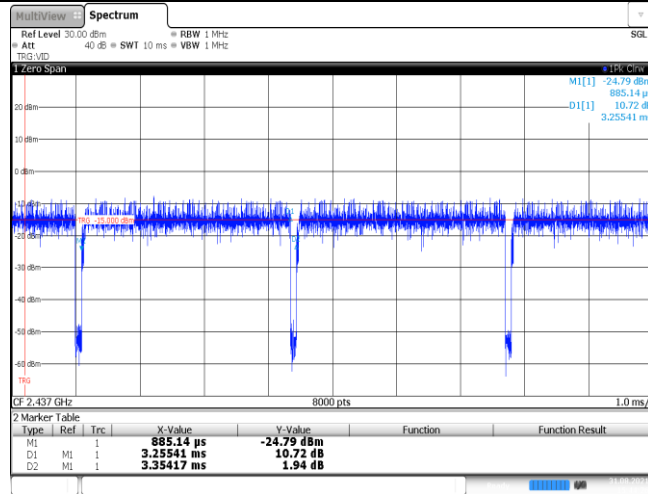


11n20



Date: 31.AUG.2021 14:41:22

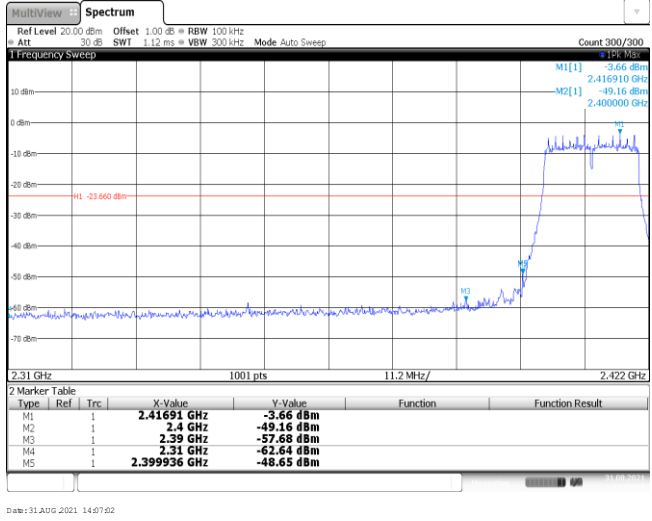
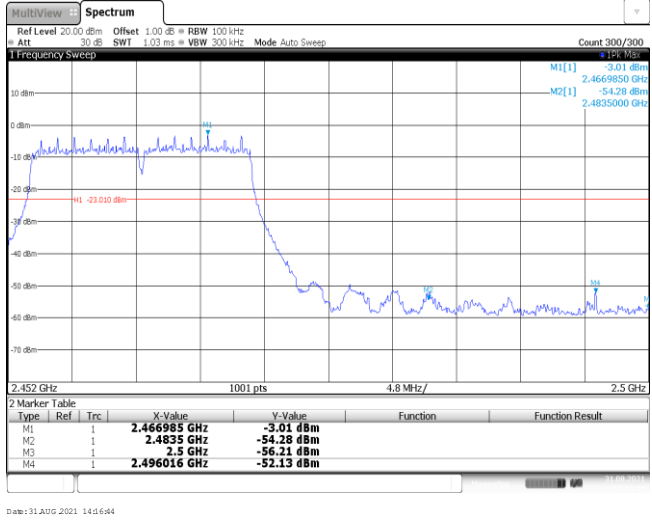
11n40



Date: 31.AUG.2021 15:44:26

Appendix F: Band Edge and Spurious Emissions (Conducted)

Test Item:	Bandedge	802.11 b	Antenna 0																																										
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>2.41243 GHz</td> <td>3.20 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-52.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-60.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399936 GHz</td> <td>-51.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 31.AUG 2021 13:38:59</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41243 GHz	3.20 dBm			M2	1		2.4 GHz	-52.34 dBm			M3	1		2.39 GHz	-60.60 dBm			M4	1		2.31 GHz	-62.48 dBm			M5	1		2.399936 GHz	-51.99 dBm		
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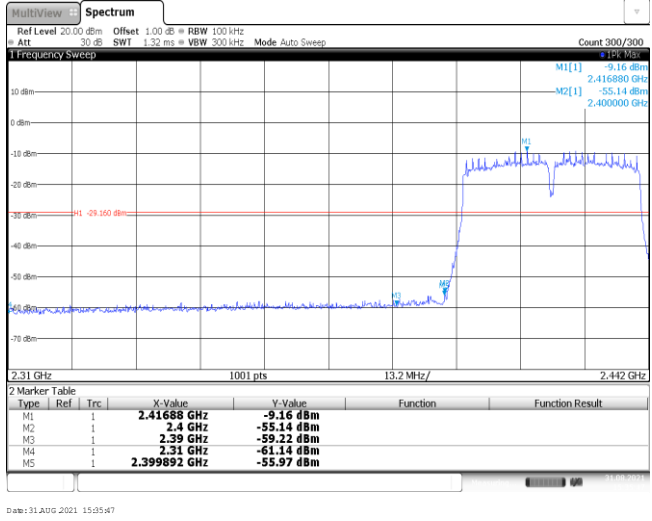
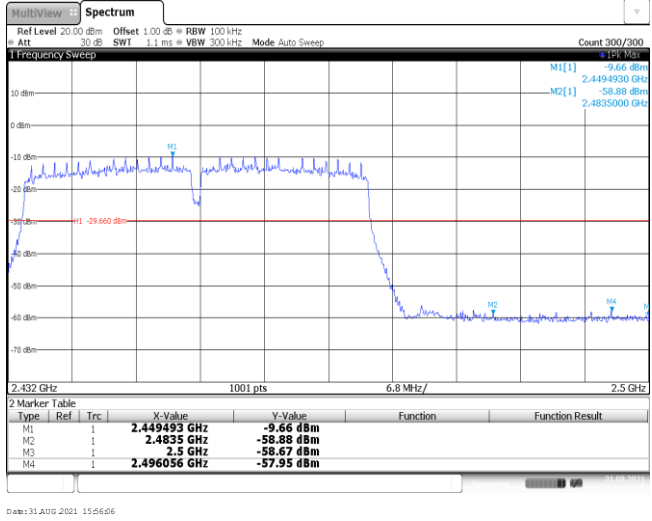
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Test Item:	Bandedge	802.11 n(HT40)	Antenna 0																																										
CH03	<p>2.31 GHz 1001 pts 13.2 MHz/ 2.412 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.42571 GHz</td> <td>-9.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-53.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-60.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.09 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399892 GHz</td> <td>-53.40 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 31 AUG 2021 15:25:25</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.42571 GHz	-9.88 dBm			M2	1		2.4 GHz	-53.12 dBm			M3	1		2.39 GHz	-60.72 dBm			M4	1		2.31 GHz	-62.09 dBm			M5	1		2.399892 GHz	-53.40 dBm		
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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>2.41445 GHz</td> <td>-5.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-50.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-62.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399936 GHz</td> <td>-52.84 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41445 GHz	-5.81 dBm			M2	1		2.4 GHz	-50.69 dBm			M3	1		2.39 GHz	-59.88 dBm			M4	1		2.31 GHz	-62.08 dBm			M5	1		2.399936 GHz	-52.84 dBm		
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CH11	<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>2.466985 GHz</td> <td>-6.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-57.05 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-60.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.483536 GHz</td> <td>-56.53 dBm</td> <td></td> <td></td> </tr> </tbody> </table>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.466985 GHz	-6.22 dBm			M2	1		2.4835 GHz	-57.05 dBm			M3	1		2.5 GHz	-60.72 dBm			M4	1		2.483536 GHz	-56.53 dBm									
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Test Item:	Bandedge	802.11 n(HT40)	Antenna 1																																										
CH03	 <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>2.41688 GHz</td> <td>-9.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-55.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-61.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399892 GHz</td> <td>-55.97 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 31 AUG 2021 15:05:47</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41688 GHz	-9.16 dBm			M2	1		2.4 GHz	-55.14 dBm			M3	1		2.39 GHz	-59.22 dBm			M4	1		2.31 GHz	-61.14 dBm			M5	1		2.399892 GHz	-55.97 dBm		
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