

APPENDIX REPORT

Project No.	SHT2007089505EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT20070895004	Model No.	DDR1010
Start test date	2020/8/27	Finish date	2020/8/27
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

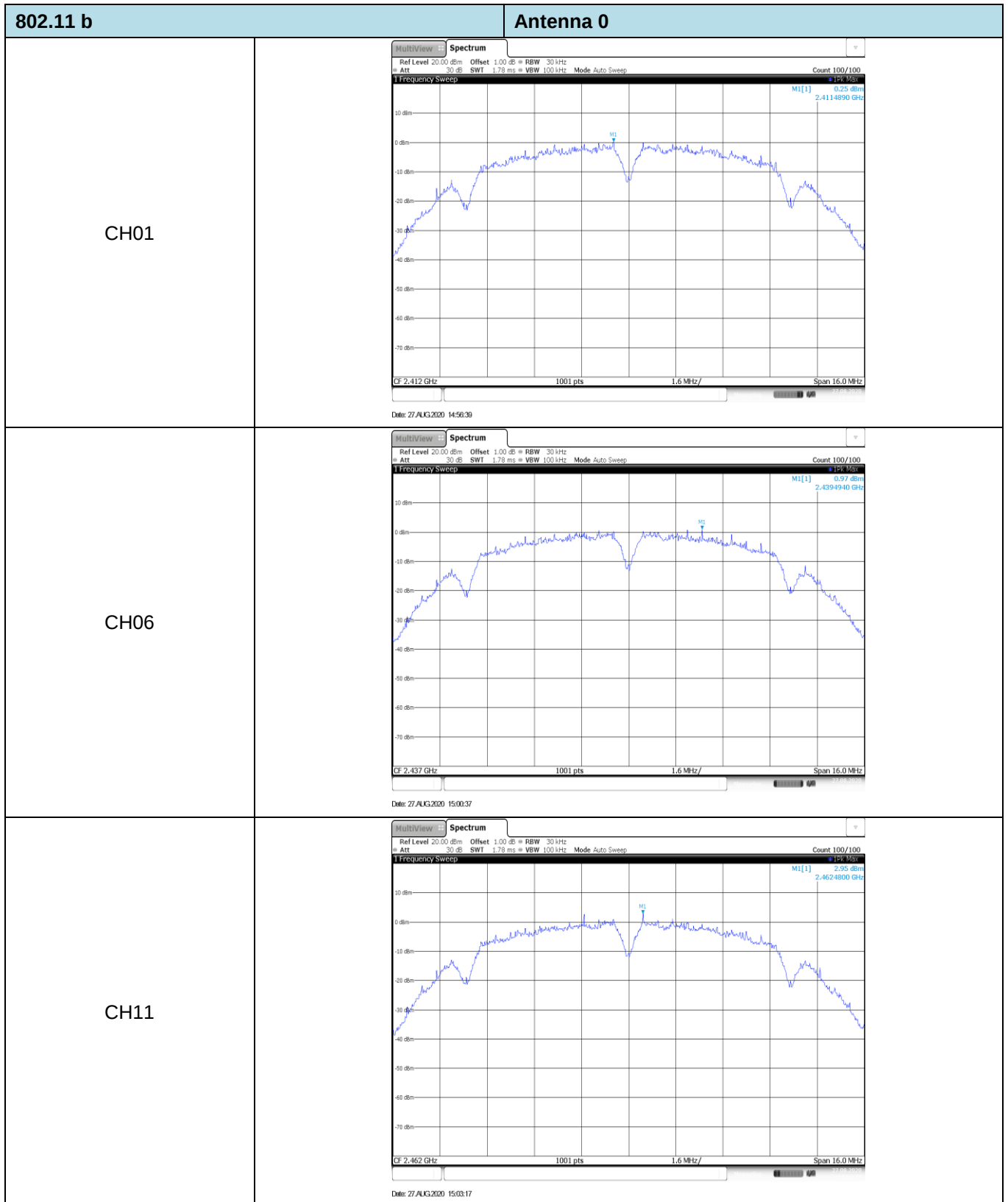
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions(coducted)	PASS

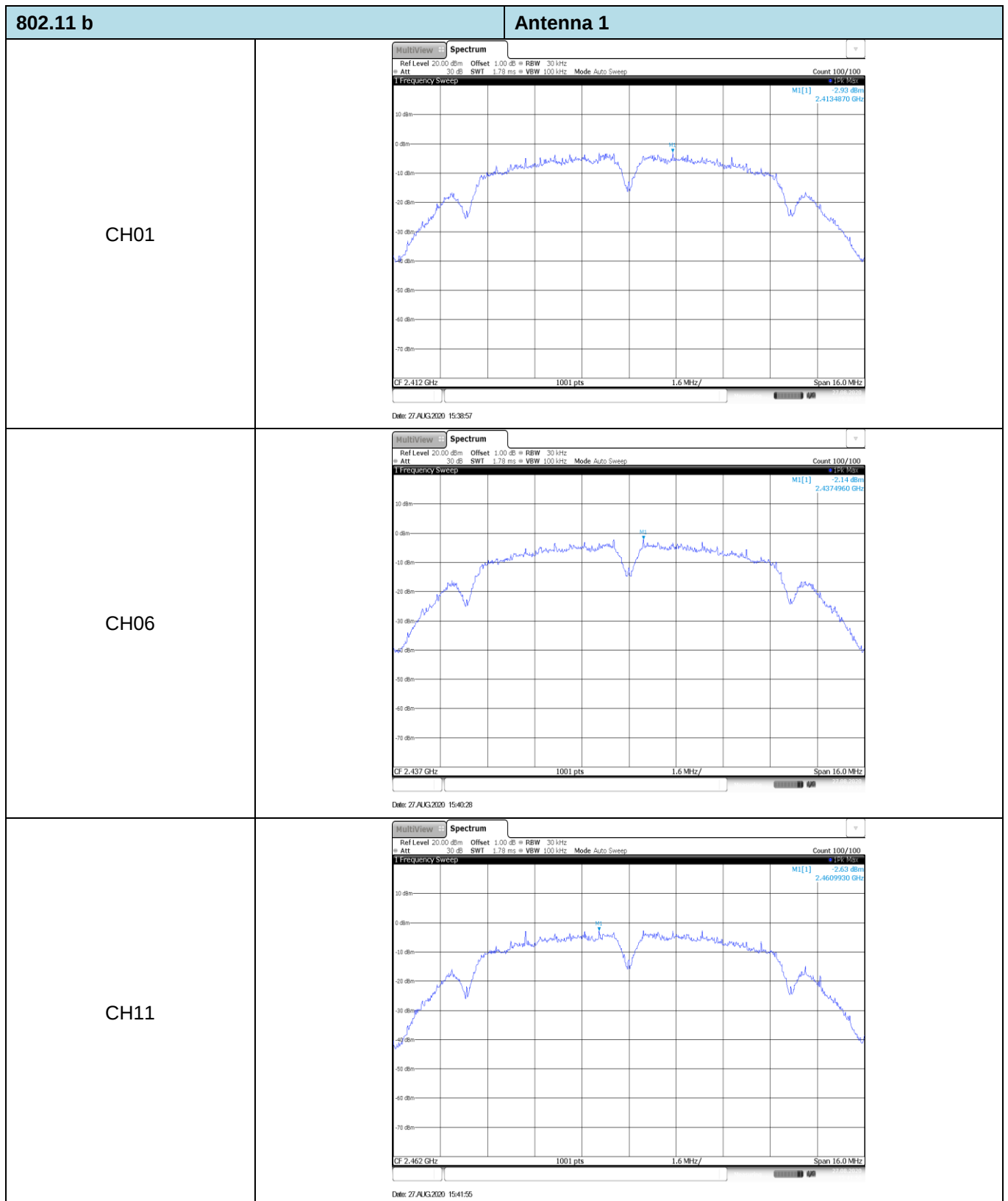
Appendix A: Conducted Peak Output Power

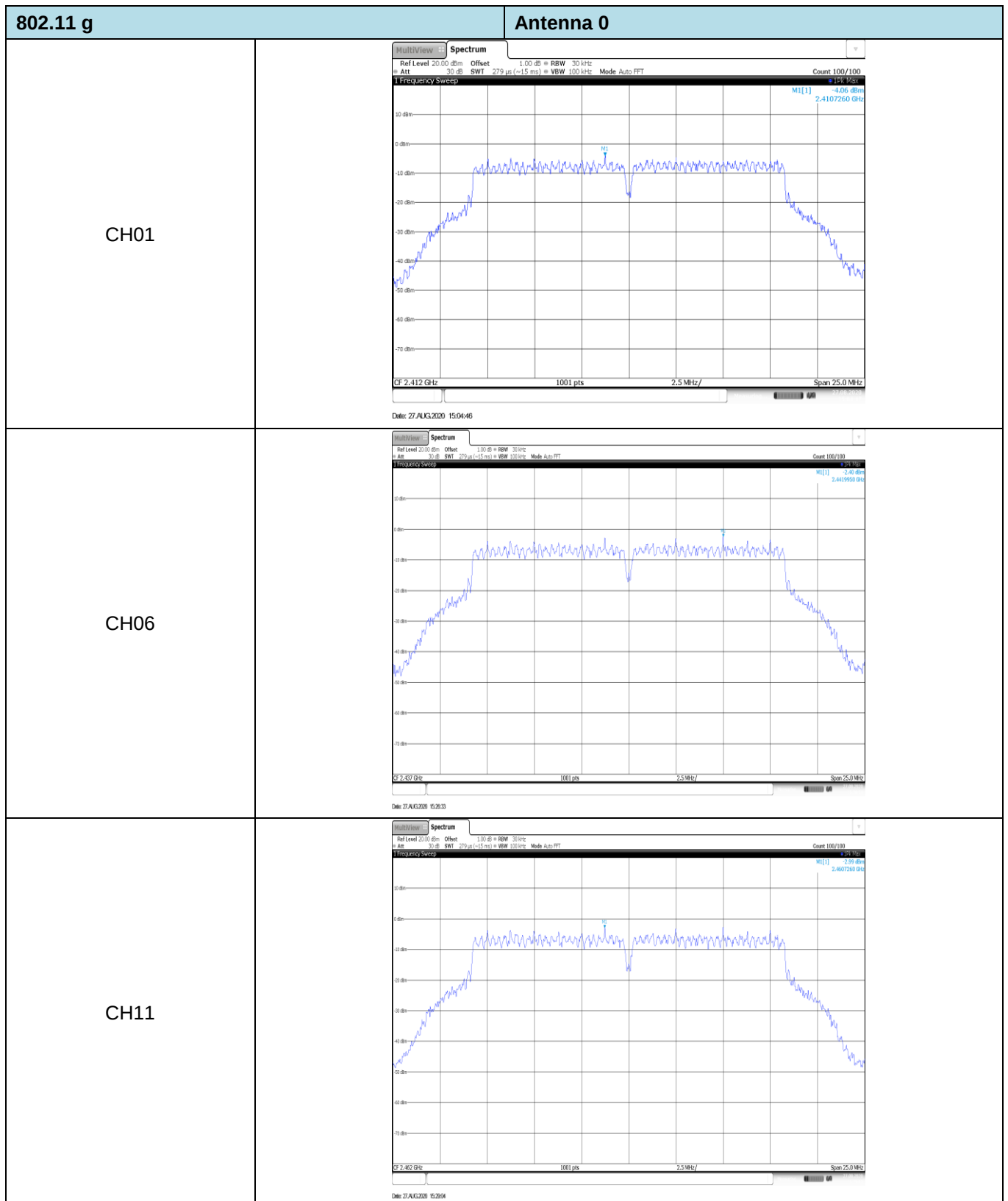
Type	Channel	Output power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Antenna 0	Antenna 1			
802.11b	01	15.28	12.67	-	≤30.00	Pass
	06	16.08	12.83	-		
	11	15.87	12.49	-		
802.11g	01	20.77	18.11	-	≤30.00	Pass
	06	21.30	18.32	-		
	11	21.38	18.06	-		
802.11n(HT20)	01	20.68	17.98	22.57	≤30.00	Pass
	06	21.36	18.31	23.13		
	11	21.24	17.92	22.87		

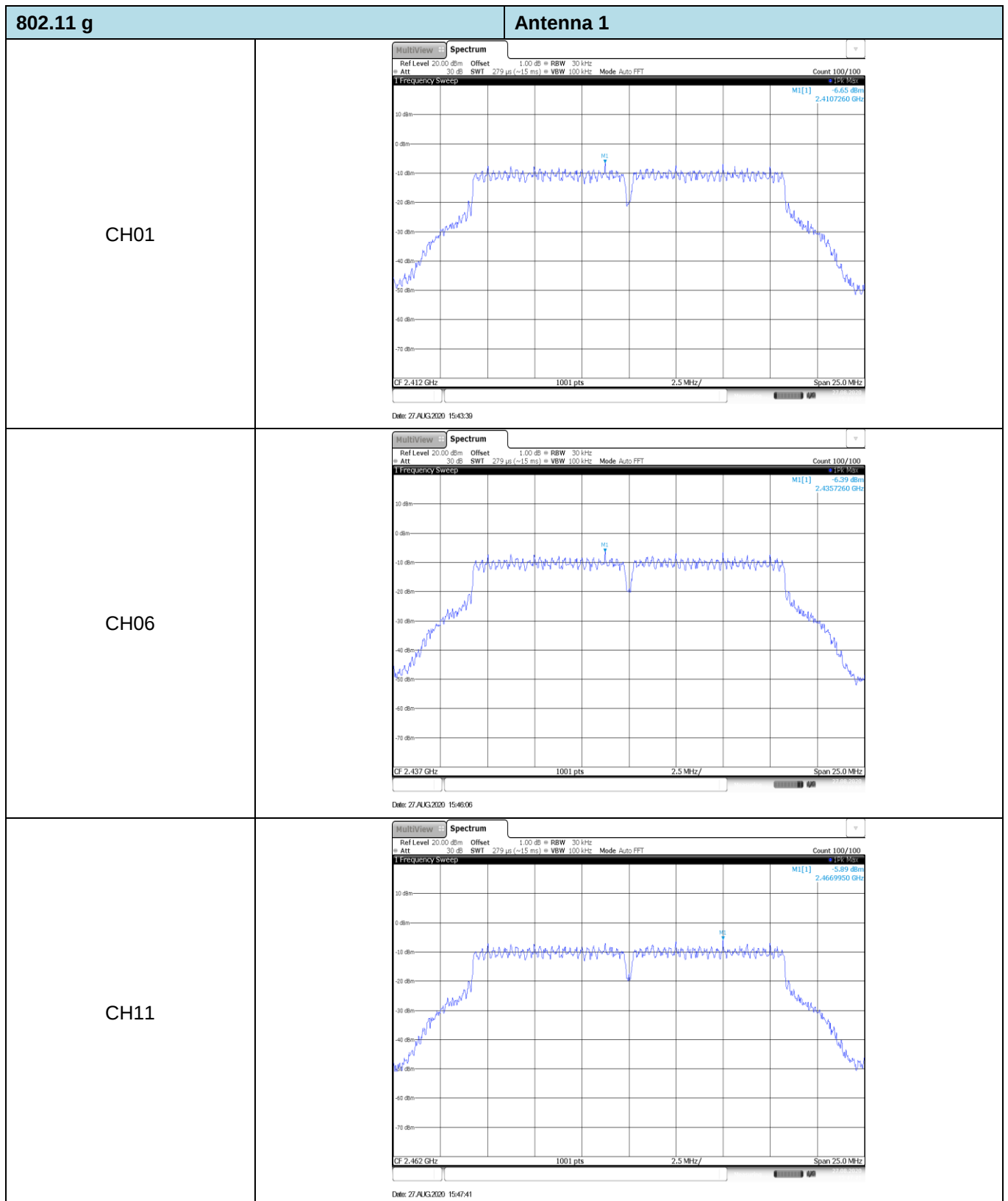
Appendix B: Power Spectral Density

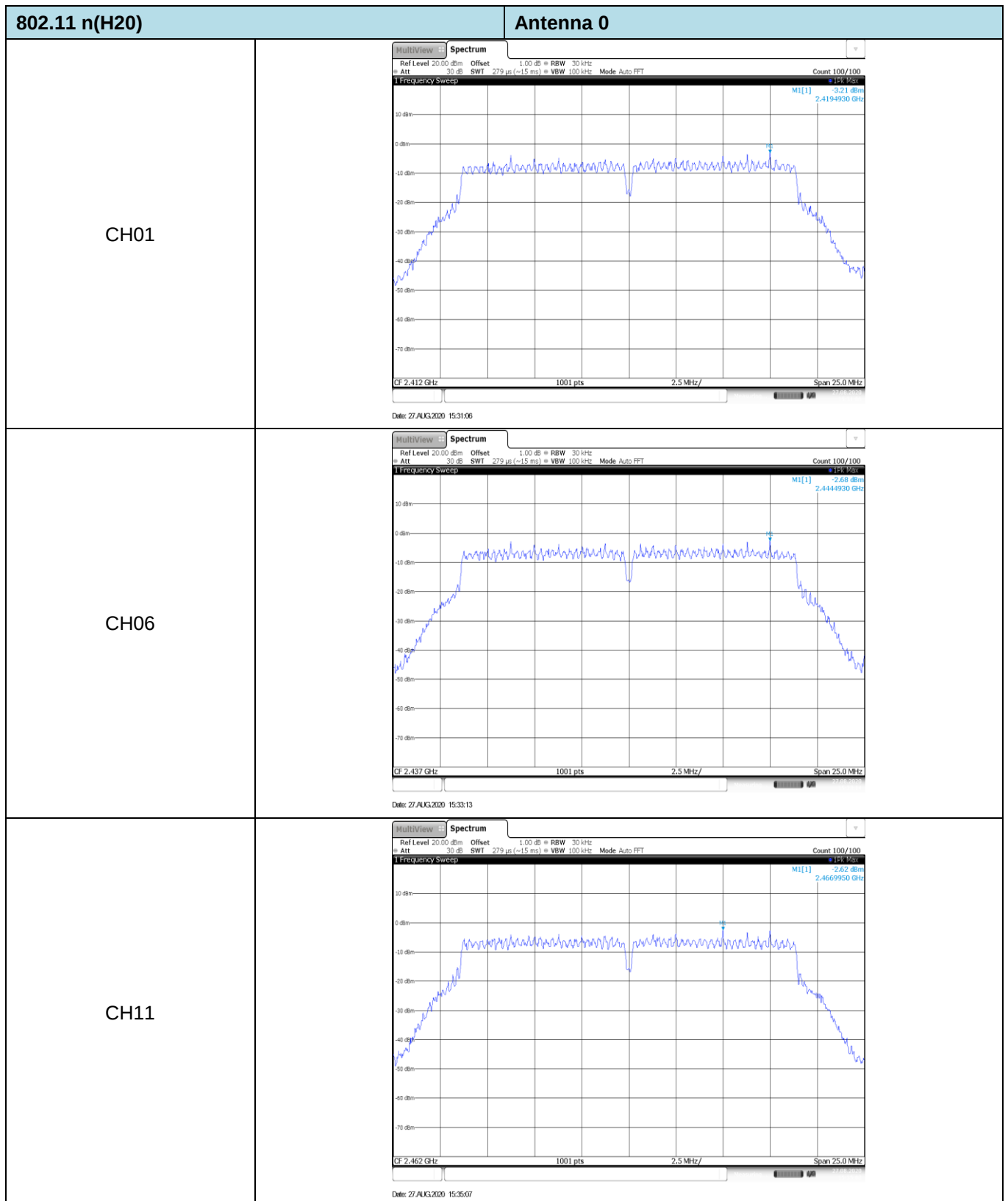
Type	Channel	Power Spectral Density (dBm/30KHz)		Total Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
		Antenna 0	Antenna 1			
802.11b	01	0.25	-2.93	-	≤8.00	Pass
	06	0.97	-2.14	-		
	11	2.95	-2.63	-		
802.11g	01	-4.06	-6.65	-	≤8.00	Pass
	06	-2.40	-6.39	-		
	11	-2.99	-5.89	-		
802.11n(HT20)	01	-3.21	-6.70	-1.60	≤8.00	Pass
	06	-2.68	-6.18	-1.08		
	11	-2.62	-5.84	-0.93		

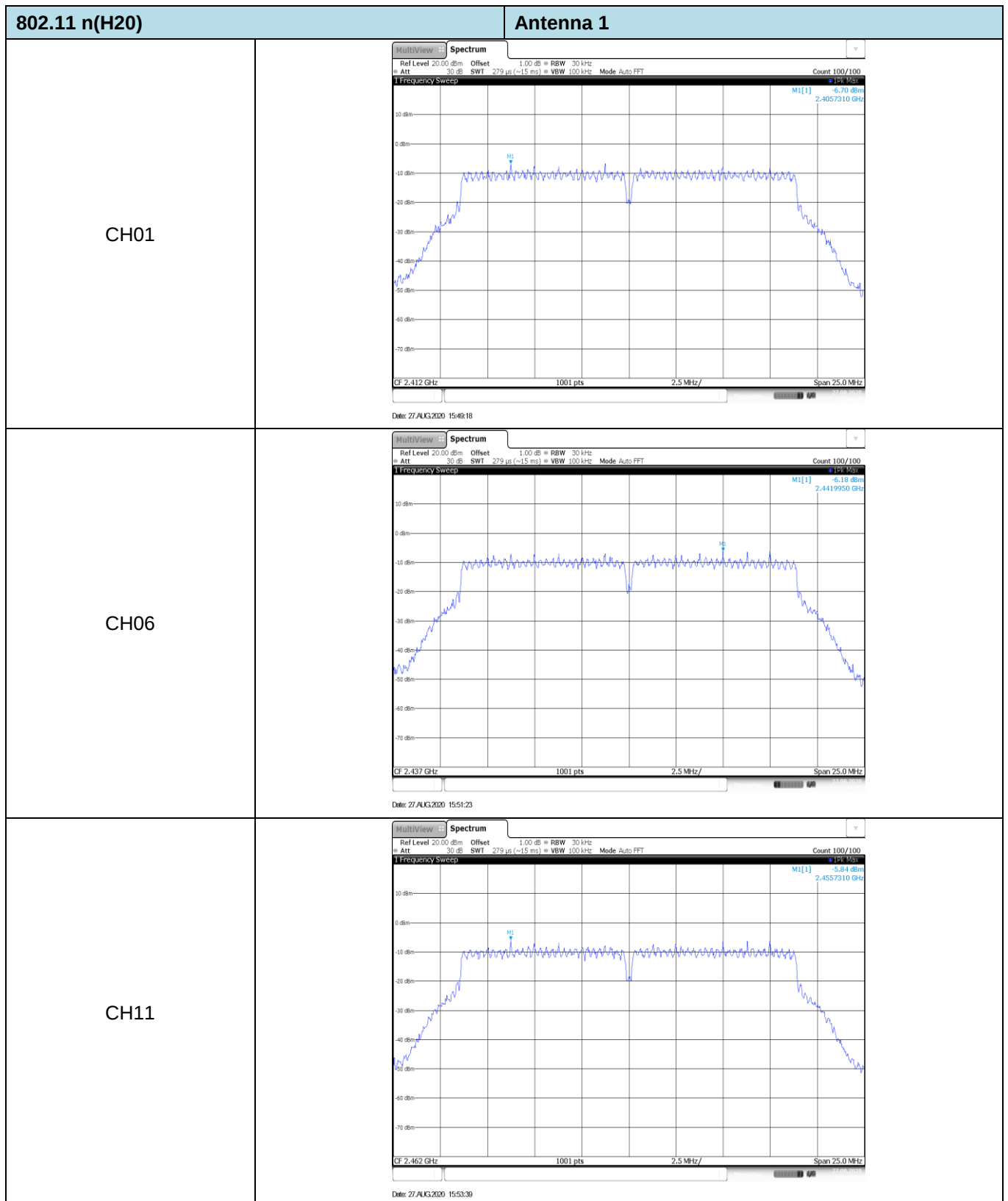












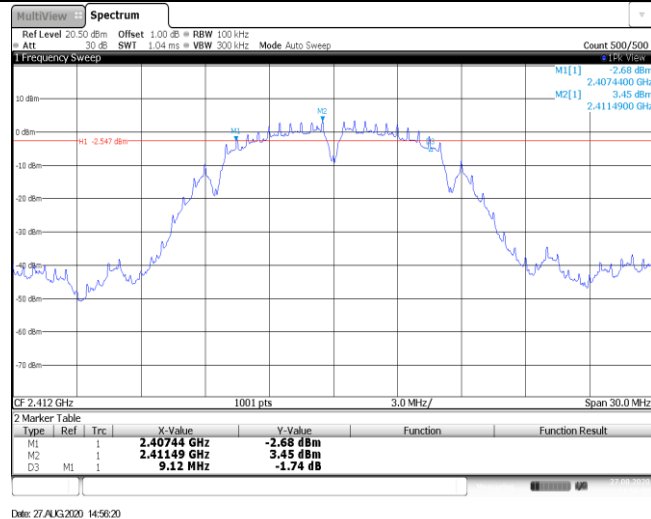
Appendix C: 6dB Bandwidth

Type	Channel	6dB Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
802.11b	01	9.12	9.09	≥500	Pass
	06	9.09	9.09		
	11	8.61	9.09		
802.11g	01	16.38	16.41	≥500	Pass
	06	16.41	16.41		
	11	16.41	16.41		
802.11n(HT20)	01	17.64	17.64	≥500	Pass
	06	17.64	17.67		
	11	17.67	17.64		

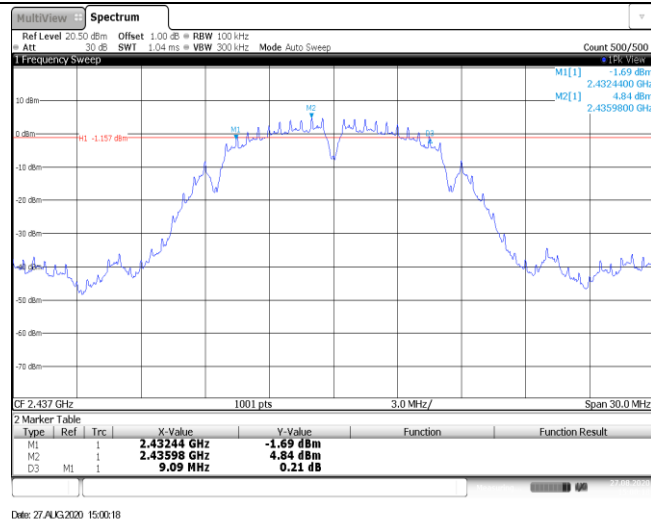
802.11 b

Antenna 0

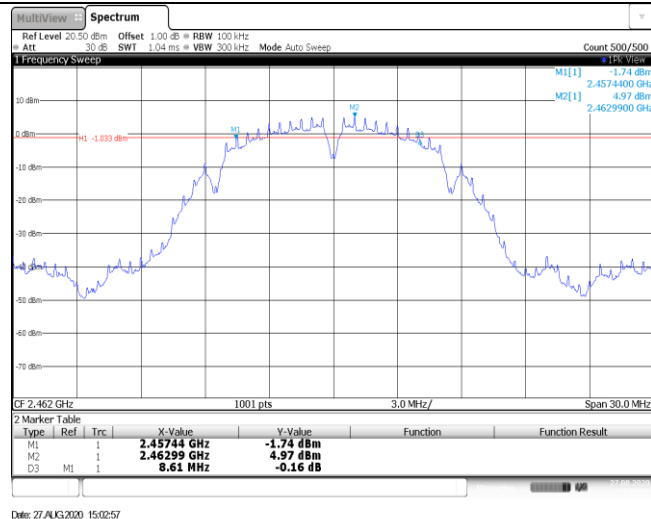
CH01

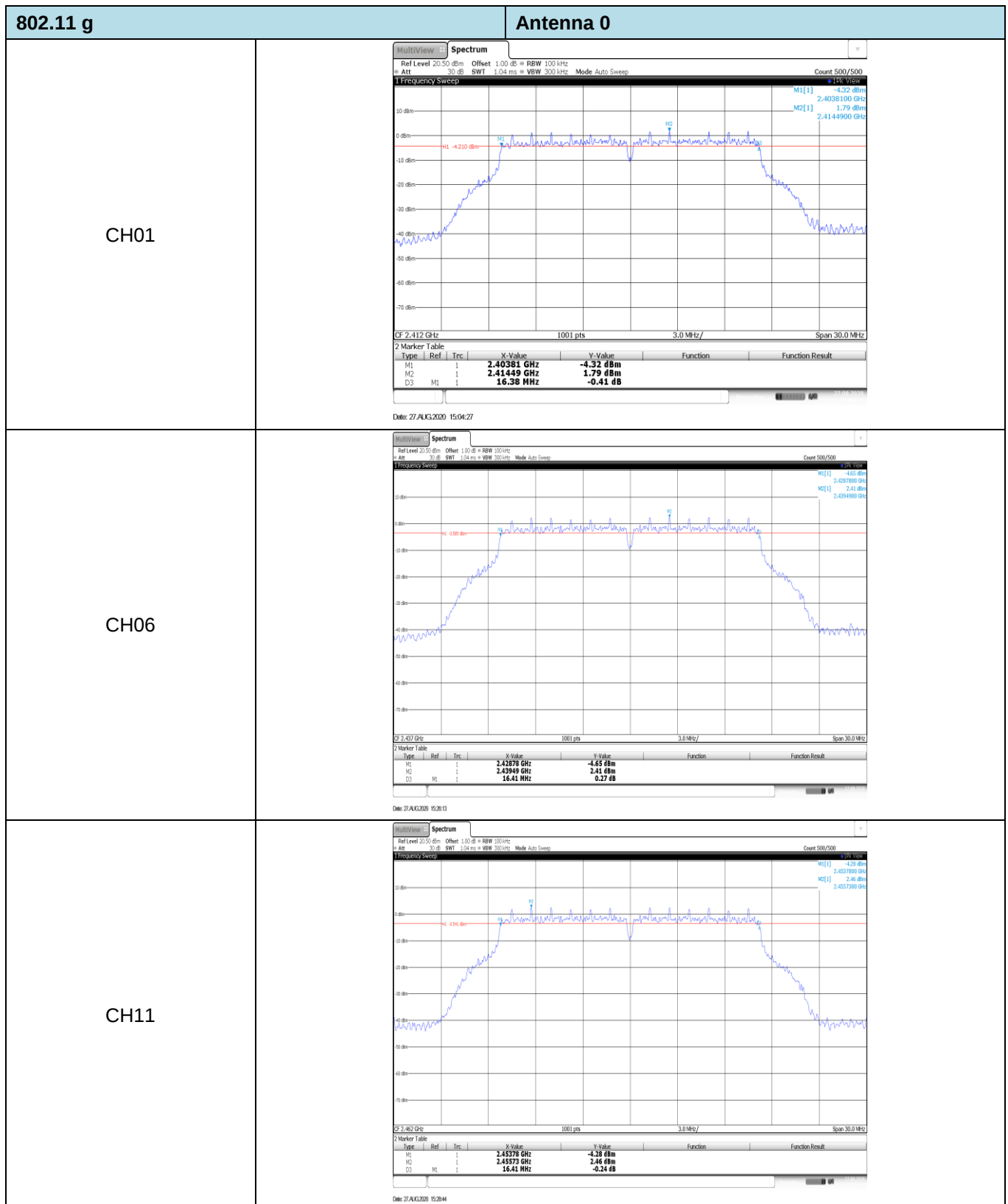


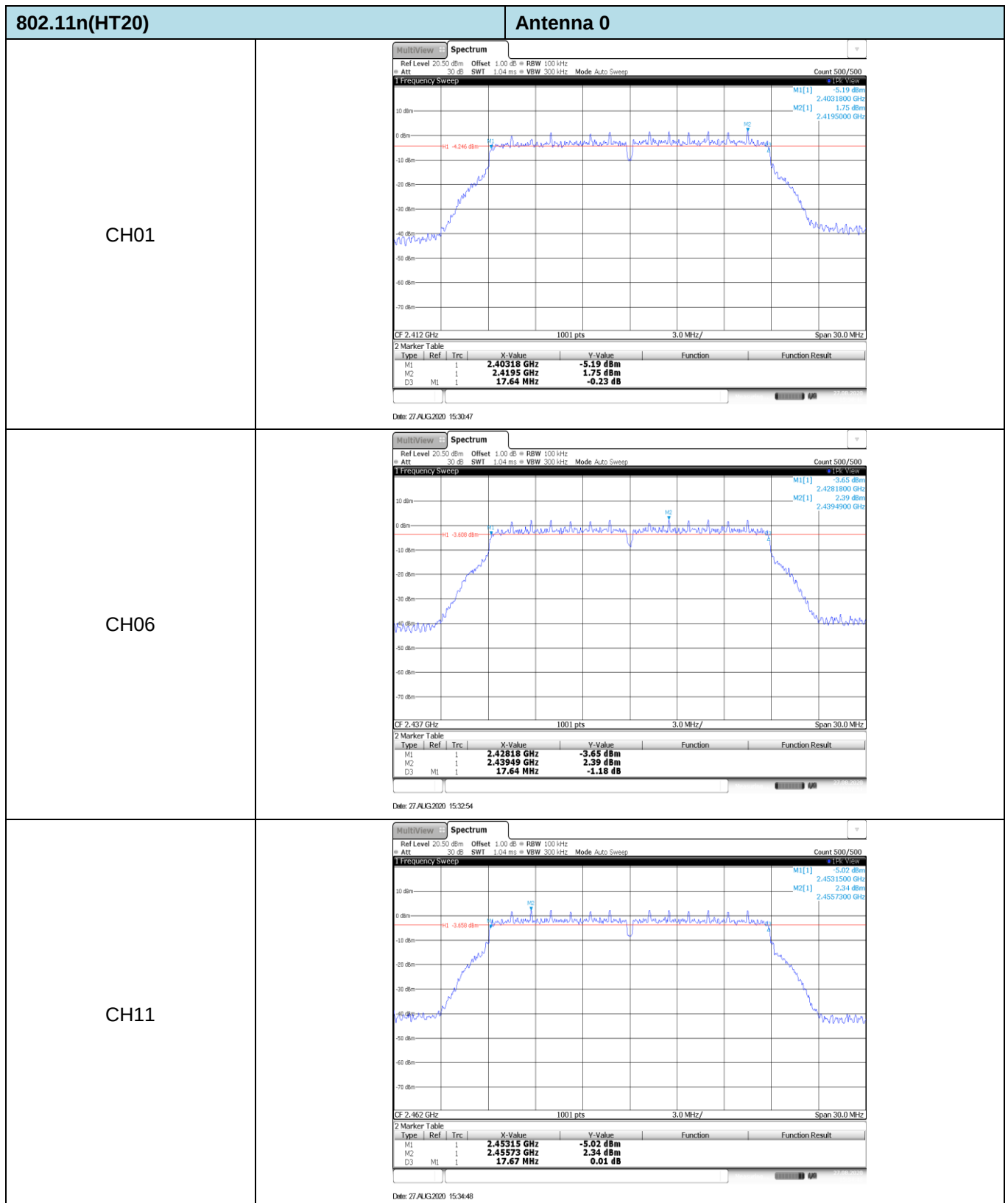
CH06



CH11



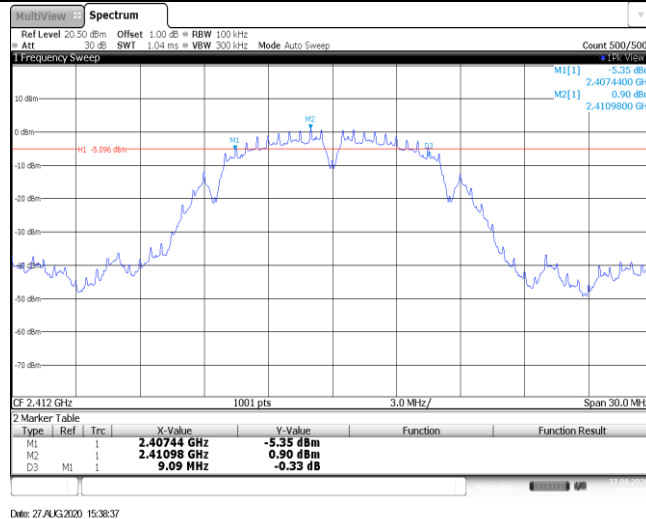




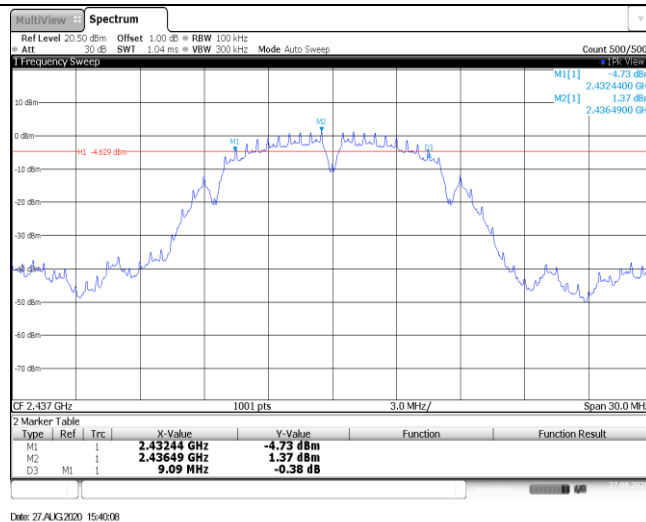
802.11 b

Antenna 1

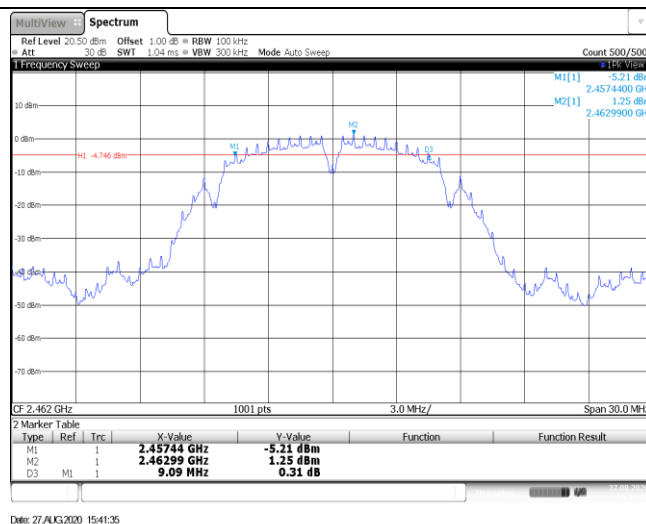
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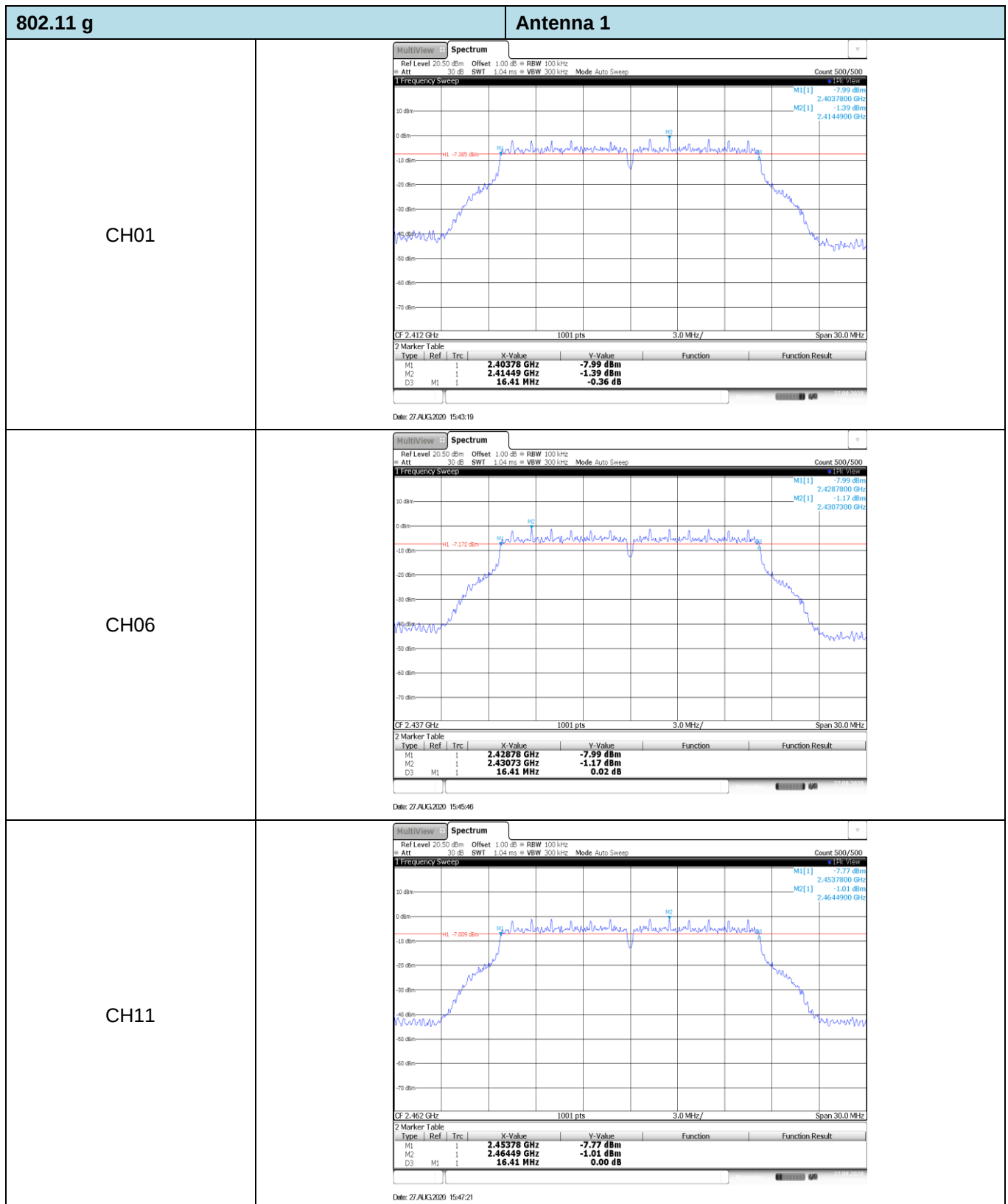


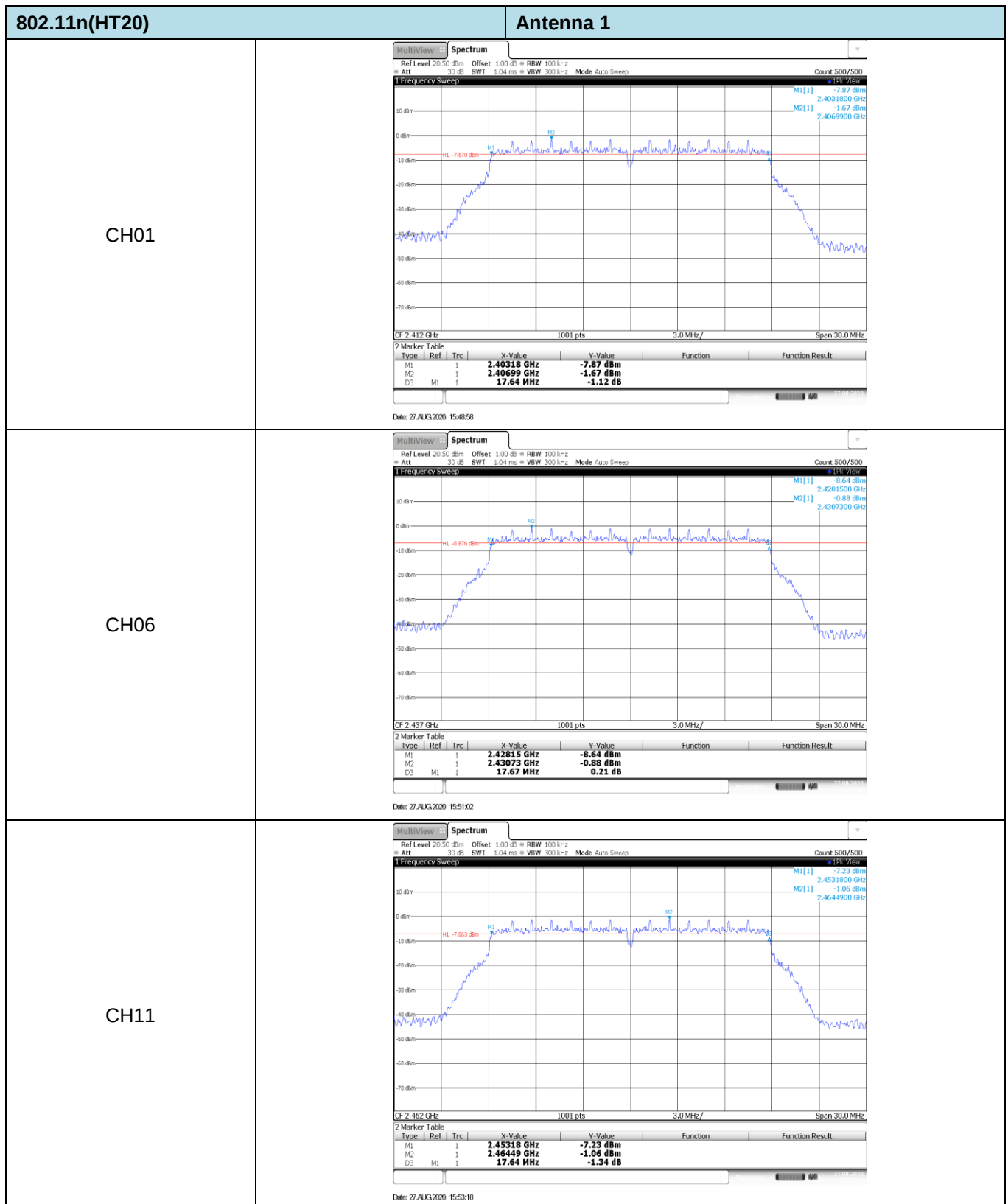
CH06



CH11

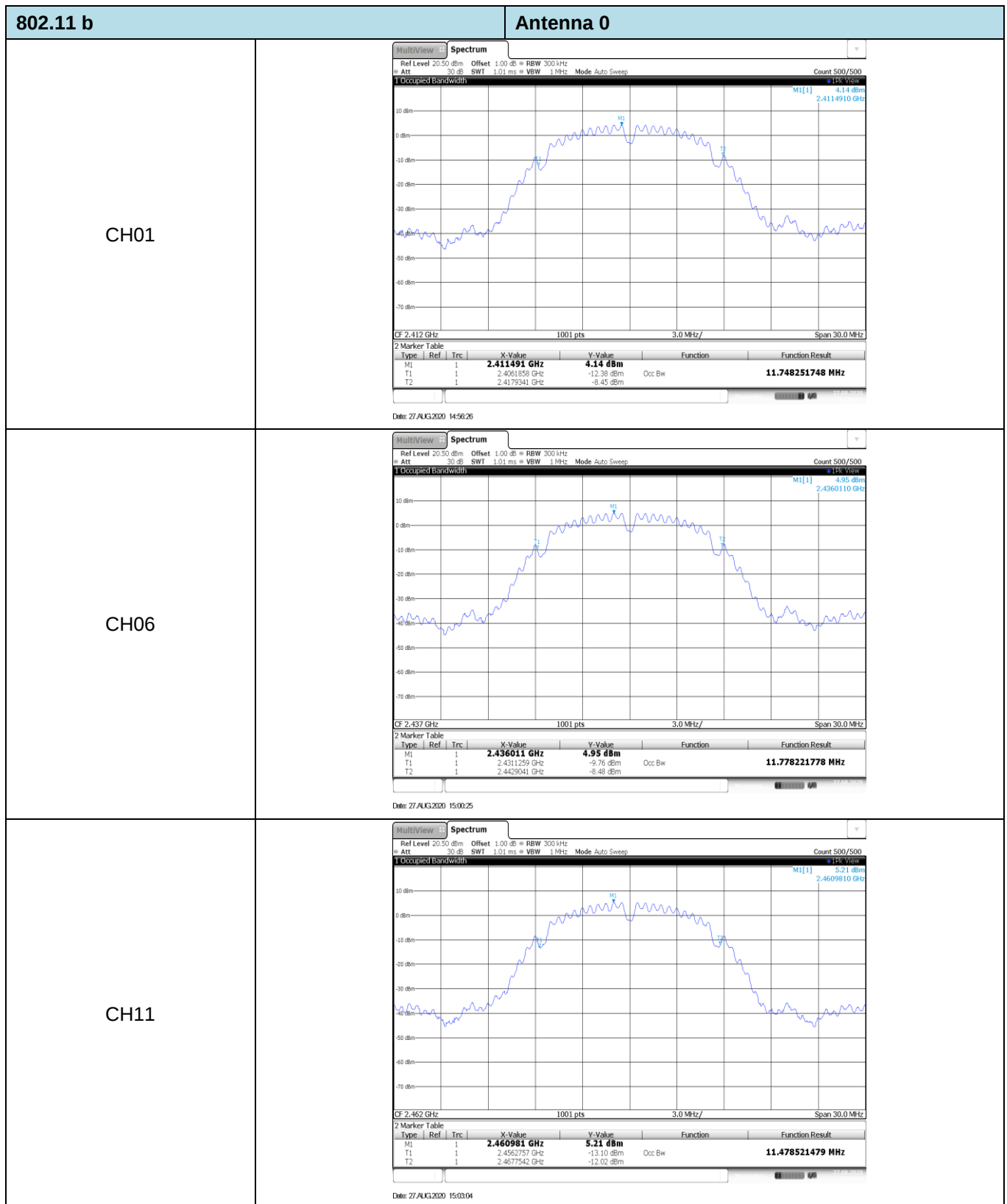






Appendix D: 99% Bandwidth

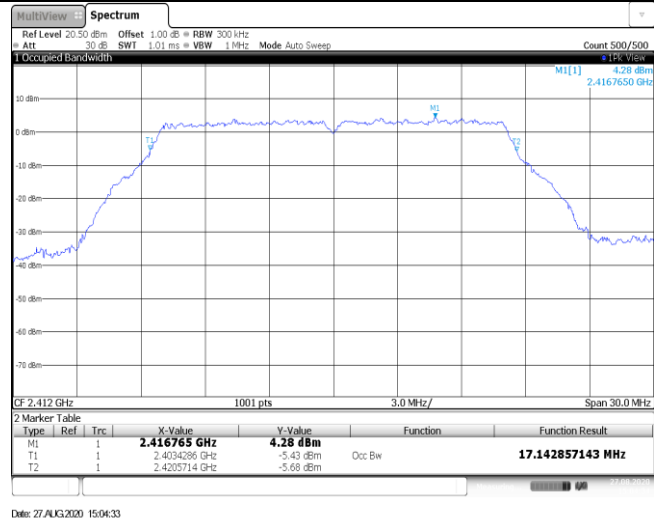
Type	Channel	99% Bandwidth (MHz)		Limit (kHz)	Result
		Antenna 0	Antenna 1		
802.11b	01	11.75	11.81	-	Pass
	06	11.78	11.78		
	11	11.48	11.69		
802.11g	01	17.14	17.14	-	Pass
	06	17.17	17.14		
	11	17.17	17.14		
802.11n(HT20)	01	18.22	18.22	-	Pass
	06	18.22	18.19		
	11	18.22	18.22		



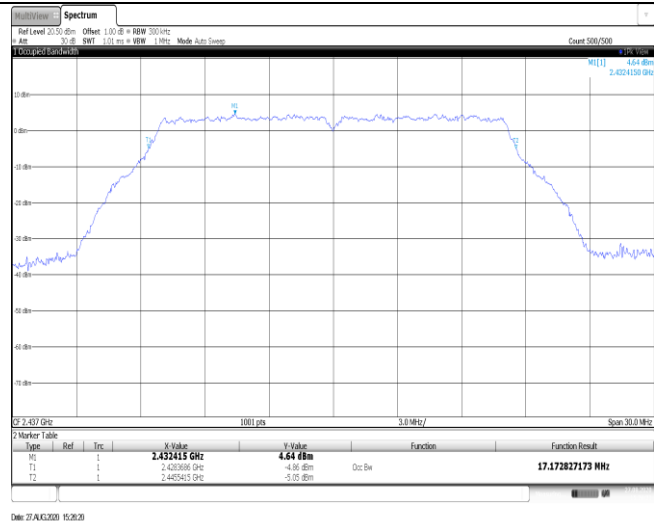
802.11 g

Antenna 0

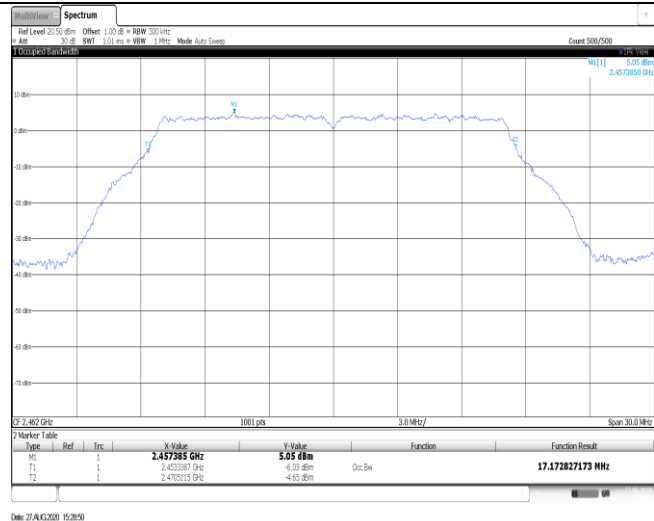
CH01

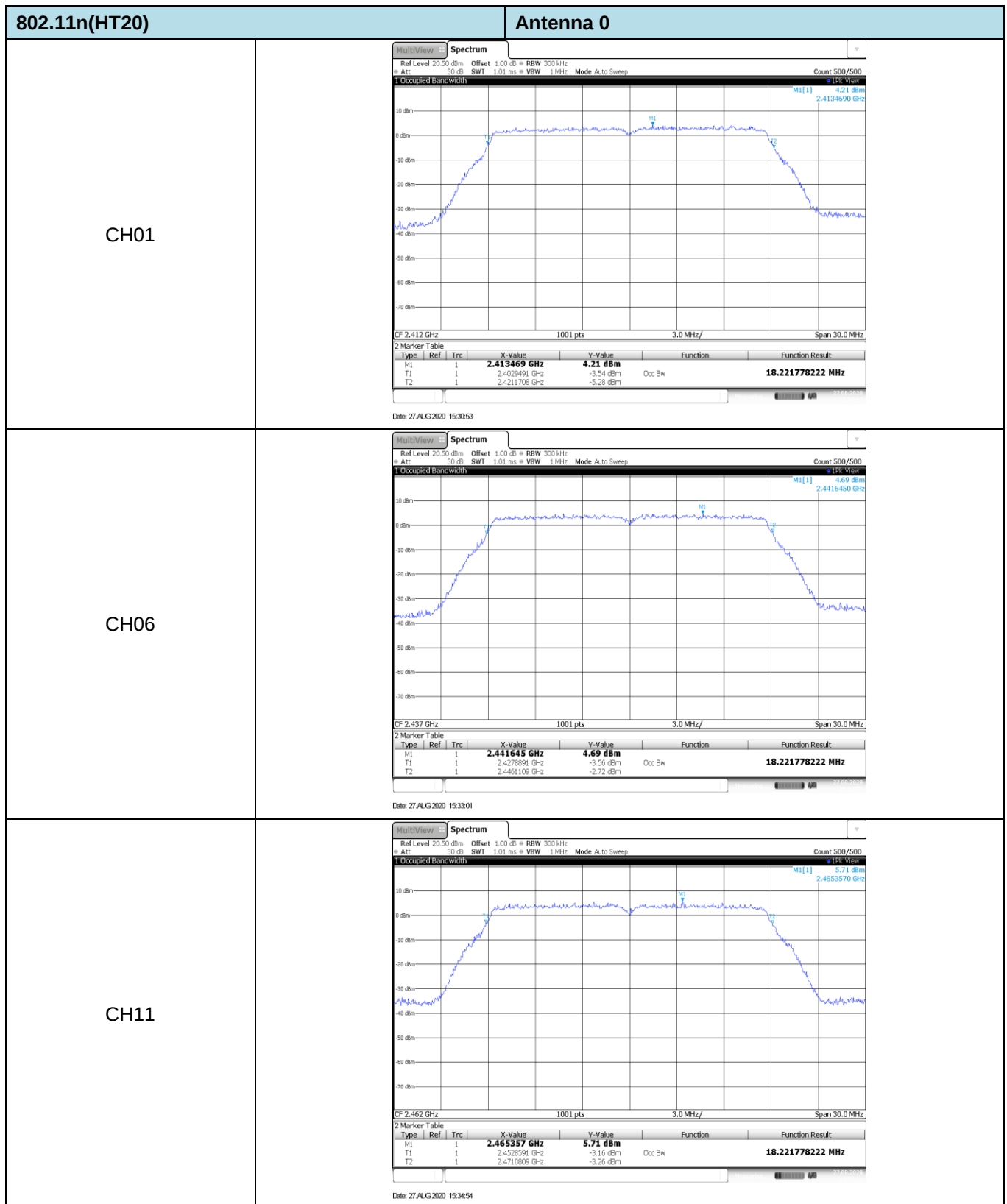


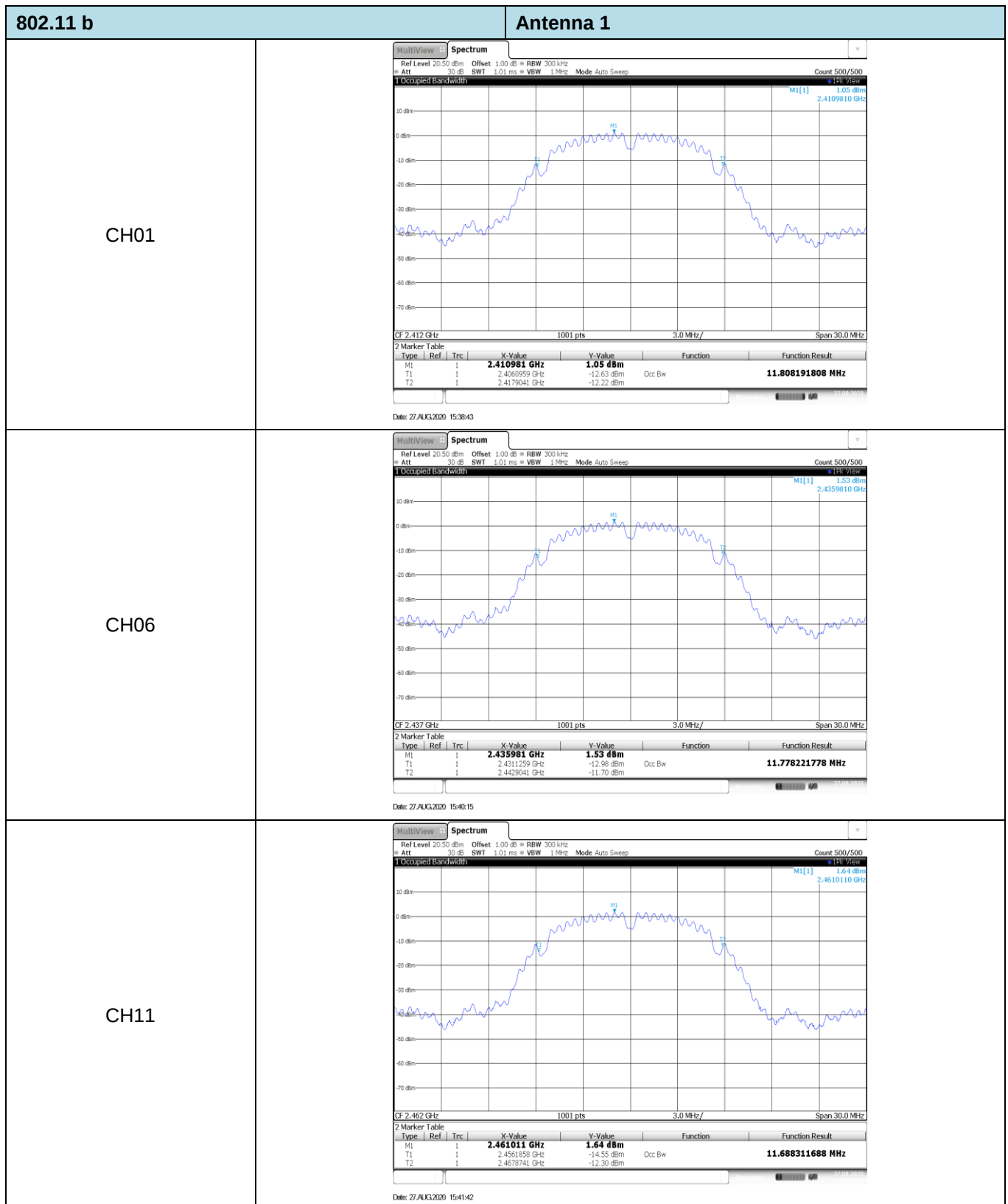
CH06

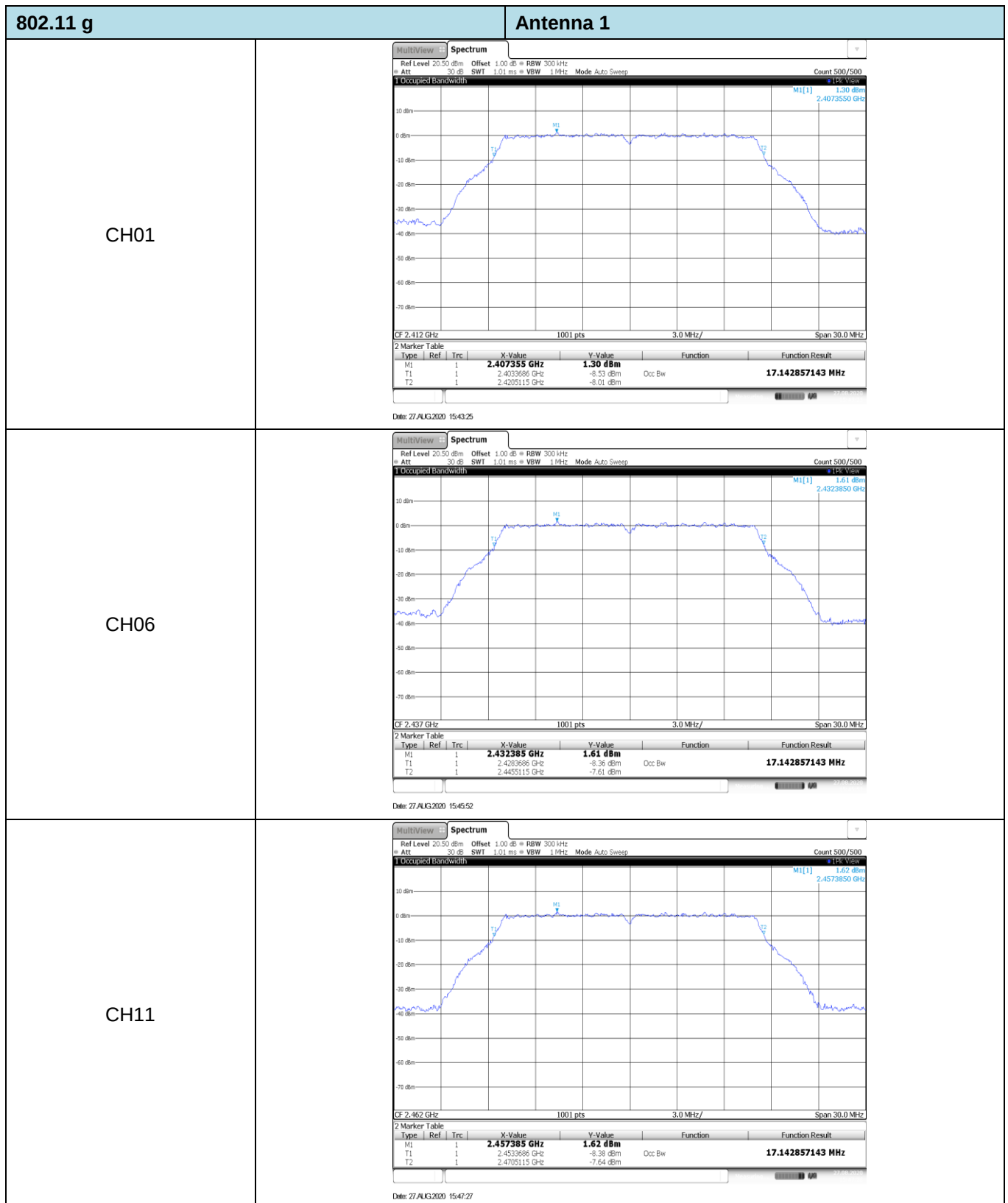


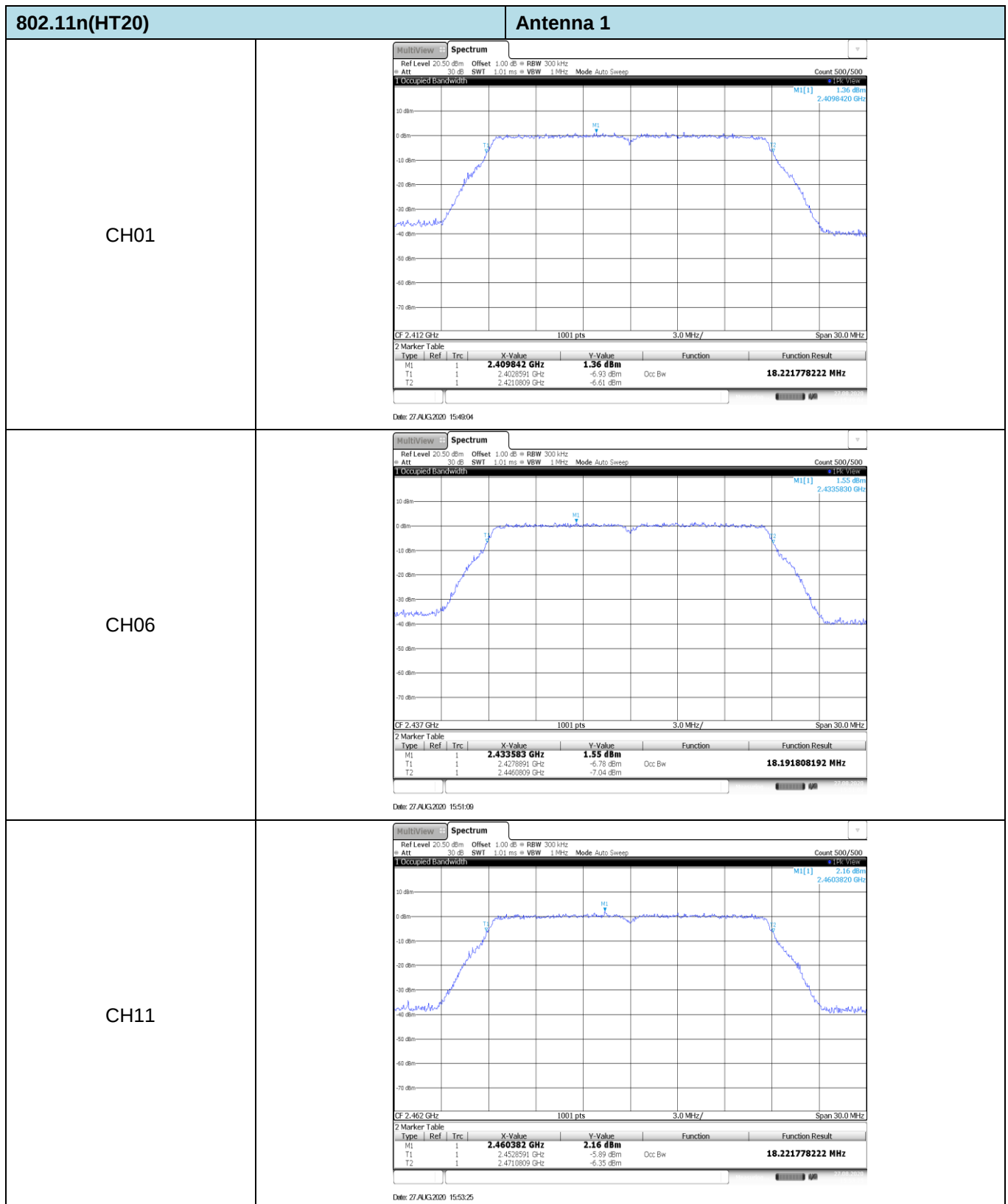
CH11





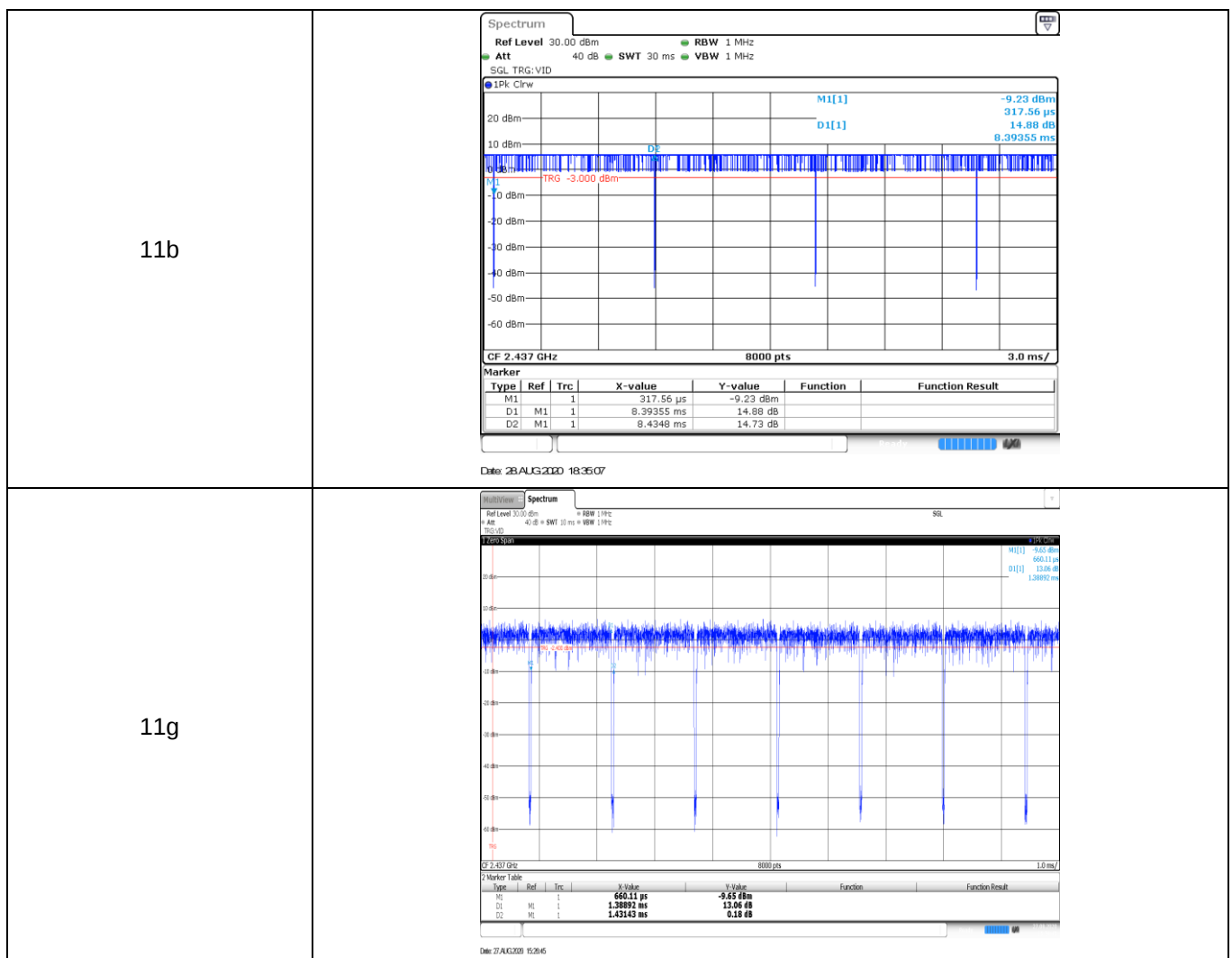


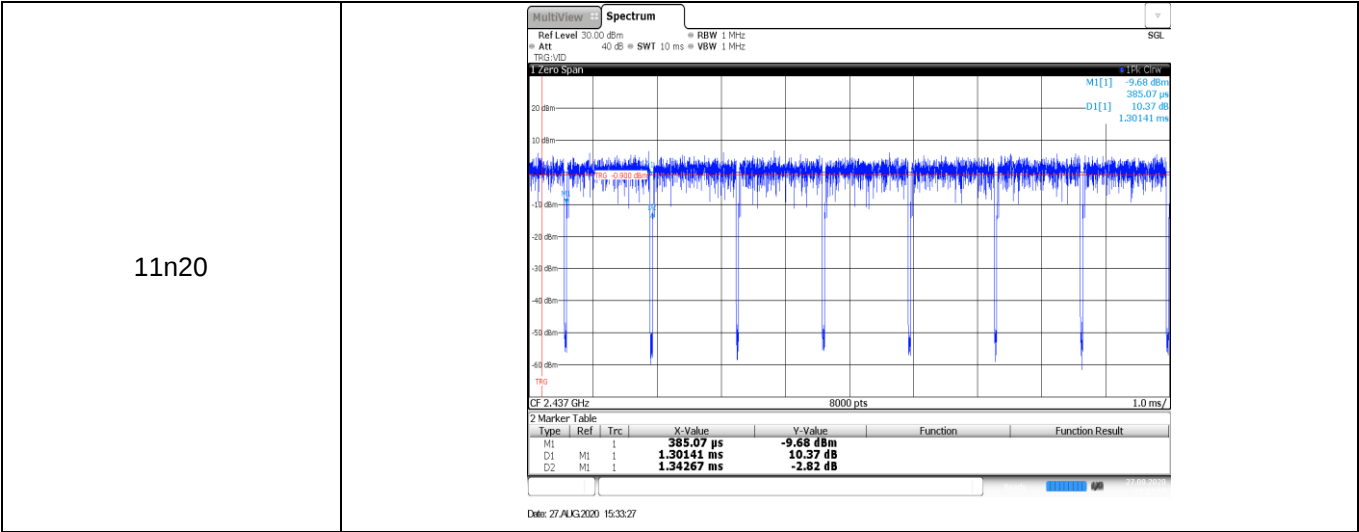




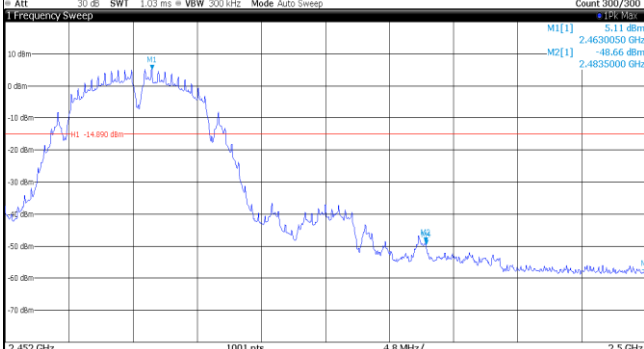
Appendix E: Duty Cycle

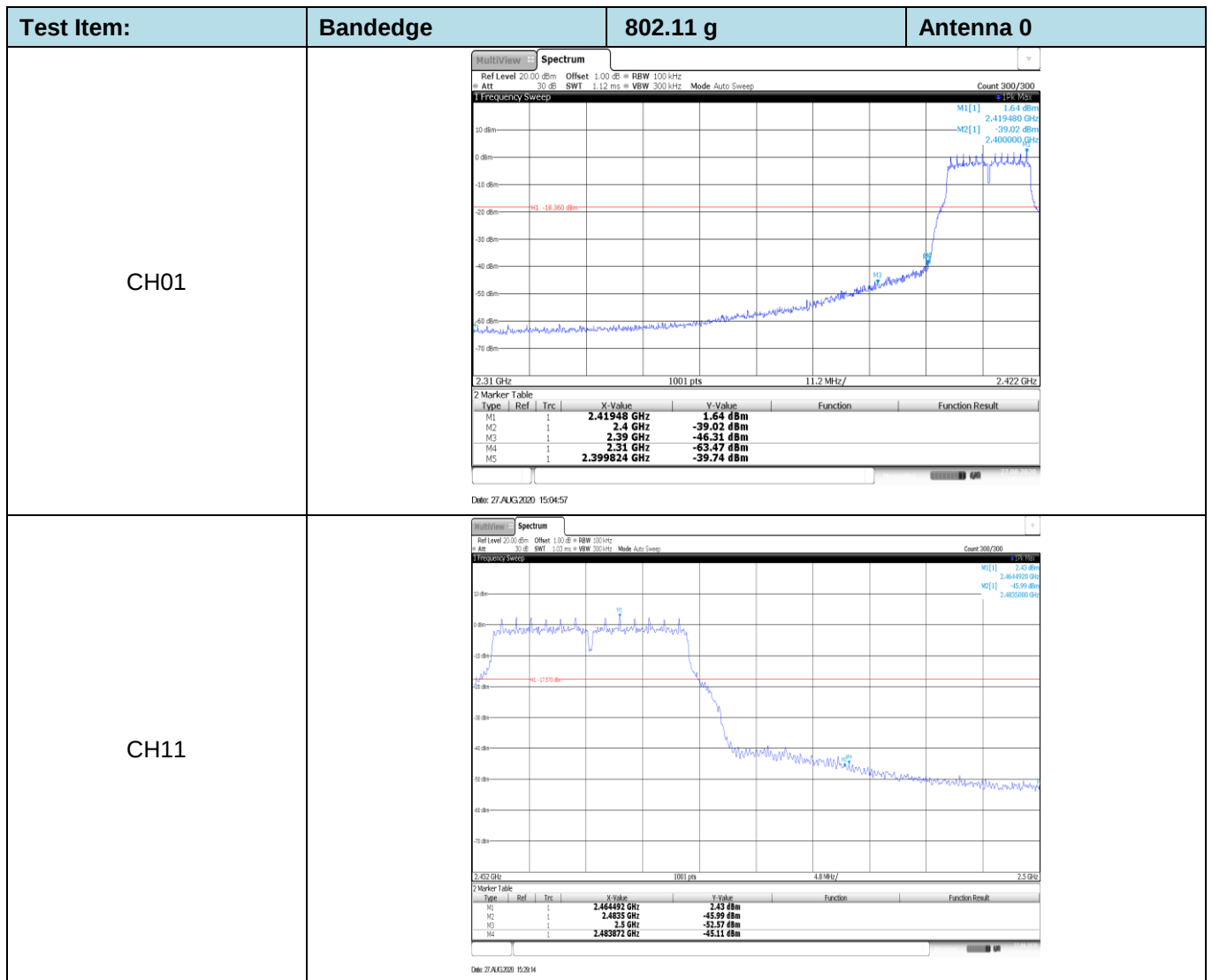
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.39	8.43	99.5%	0.1
11g	2437	1.39	1.43	97.2%	0.7
11n20	2437	1.30	1.34	97.0%	0.8



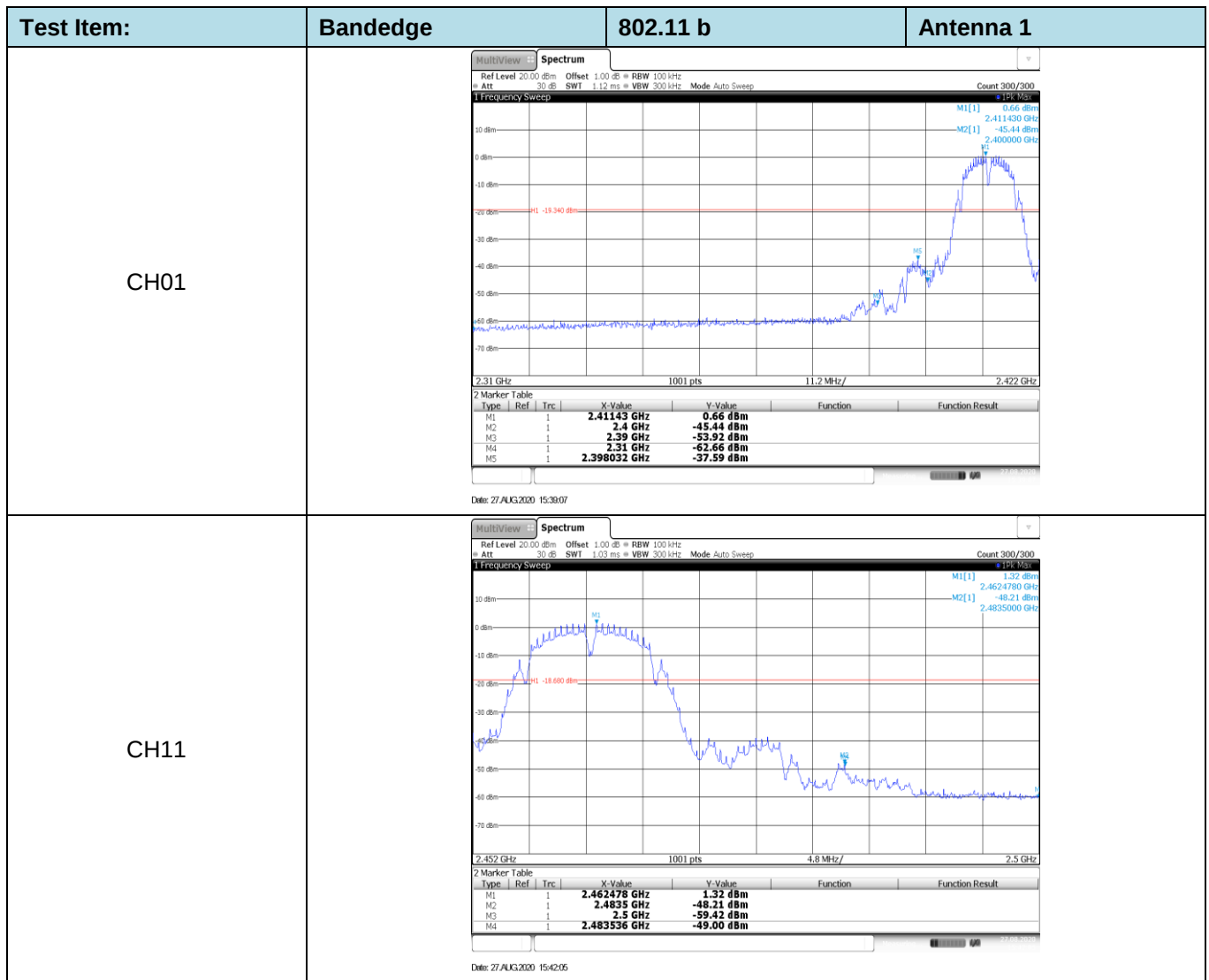


Appendix F: Band Edge and Spurious Emissions (Conducted)

Test Item:	Bandedge	802.11 b	Antenna 0																																										
CH01	MultiViewSpectrum 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  2.31 GHz1001 pts11.2 MHz/2.422 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>2.41143 GHz</td><td>3.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-48.12 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-55.81 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.93 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398032 GHz</td><td>-39.41 dBm</td><td></td><td></td></tr></table> Date: 27/AUG/2020 14:56:49			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41143 GHz	3.58 dBm			M2	1		2.4 GHz	-48.12 dBm			M3	1		2.39 GHz	-55.81 dBm			M4	1		2.31 GHz	-63.93 dBm			M5	1		2.398032 GHz	-39.41 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41143 GHz	3.58 dBm																																									
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CH11	MultiViewSpectrum 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 1 Frequency Sweep  2.452 GHz1001 pts4.8 MHz/2.5 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>2.463005 GHz</td><td>5.11 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-48.66 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-57.49 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483536 GHz</td><td>-49.49 dBm</td><td></td><td></td></tr></table> Date: 27/AUG/2020 15:03:27			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463005 GHz	5.11 dBm			M2	1		2.4835 GHz	-48.66 dBm			M3	1		2.5 GHz	-57.49 dBm			M4	1		2.483536 GHz	-49.49 dBm									
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M4	1		2.483536 GHz	-49.49 dBm																																									

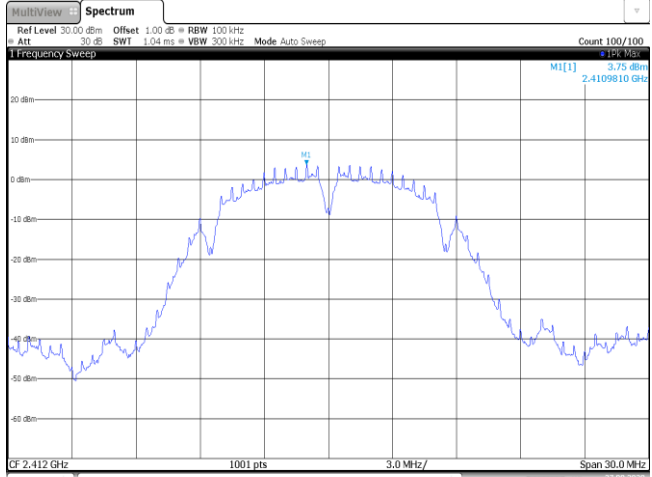
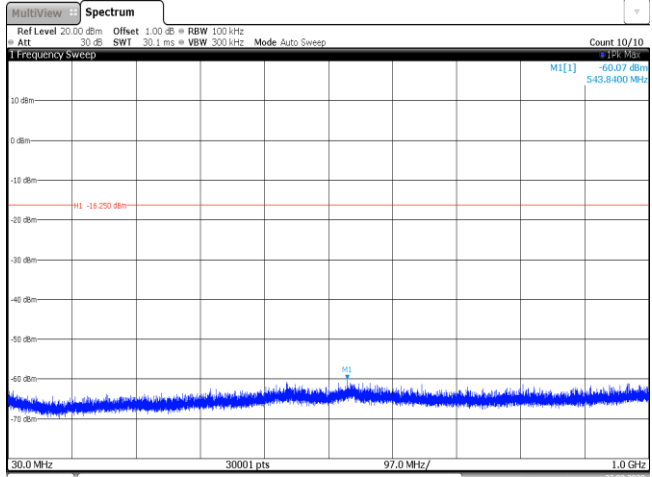
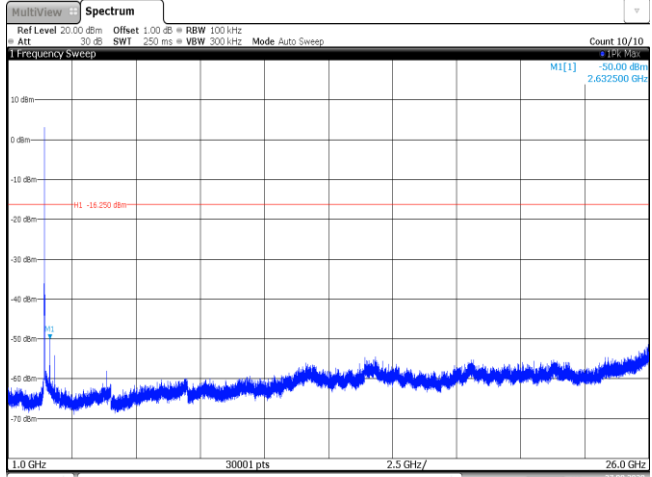


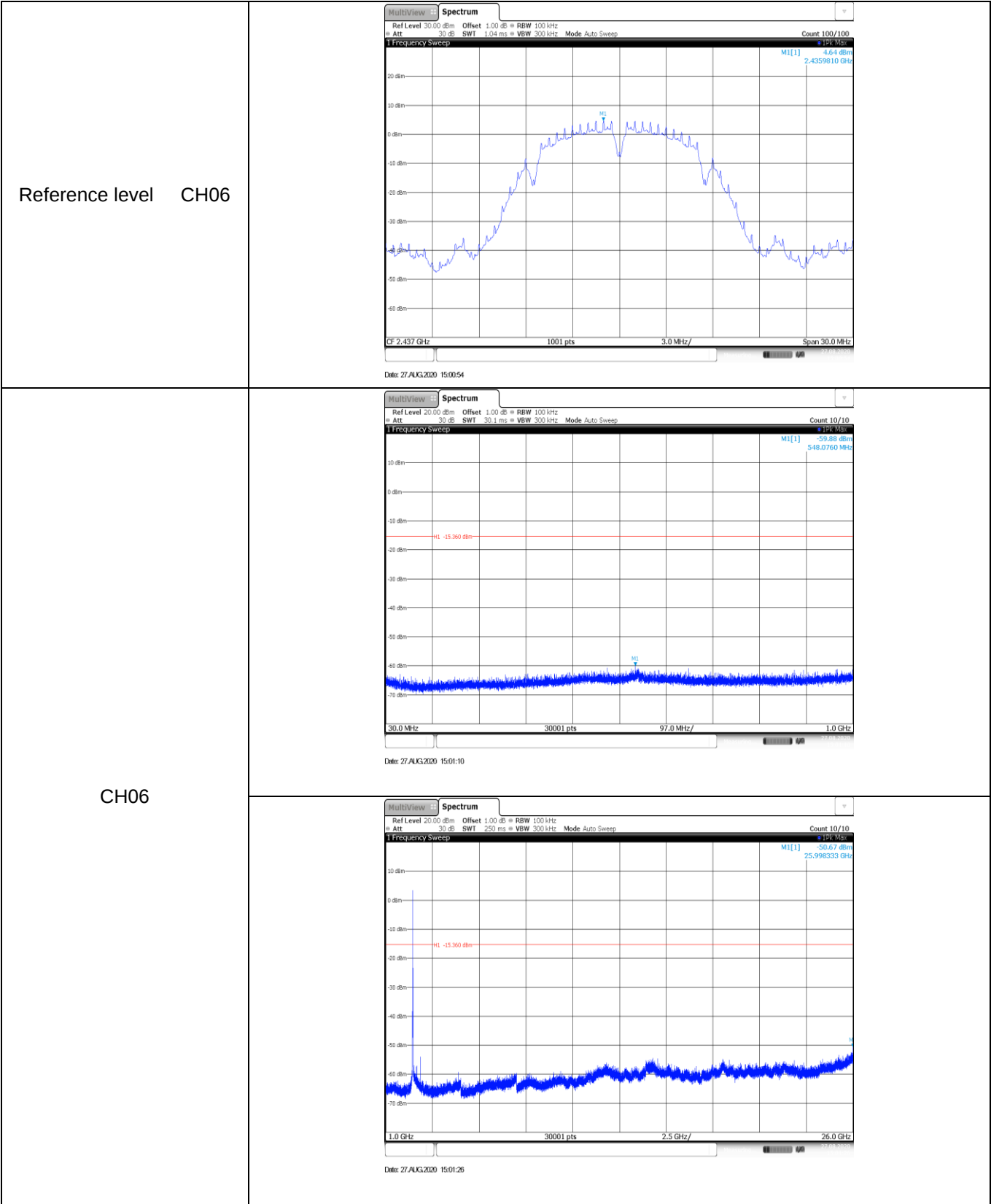
Test Item:	Bandedge	802.11 n(HT20)	Antenna 0																																										
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWT 1.12 ms VBW 300 kHz Mode Auto Sweep Count 200/200 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz M1 1.65 dBm M2 2.416910 GHz -36.94 dBm M3 2.400000 GHz 2 Marker Table <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.41691 GHz</td><td>1.65 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-36.94 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-46.83 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.96 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399712 GHz</td><td>-40.08 dBm</td><td></td><td></td></tr></tbody></table> Date: 27/AUG/2020 15:31:16			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41691 GHz	1.65 dBm			M2	1		2.4 GHz	-36.94 dBm			M3	1		2.39 GHz	-46.83 dBm			M4	1		2.31 GHz	-63.96 dBm			M5	1		2.399712 GHz	-40.08 dBm		
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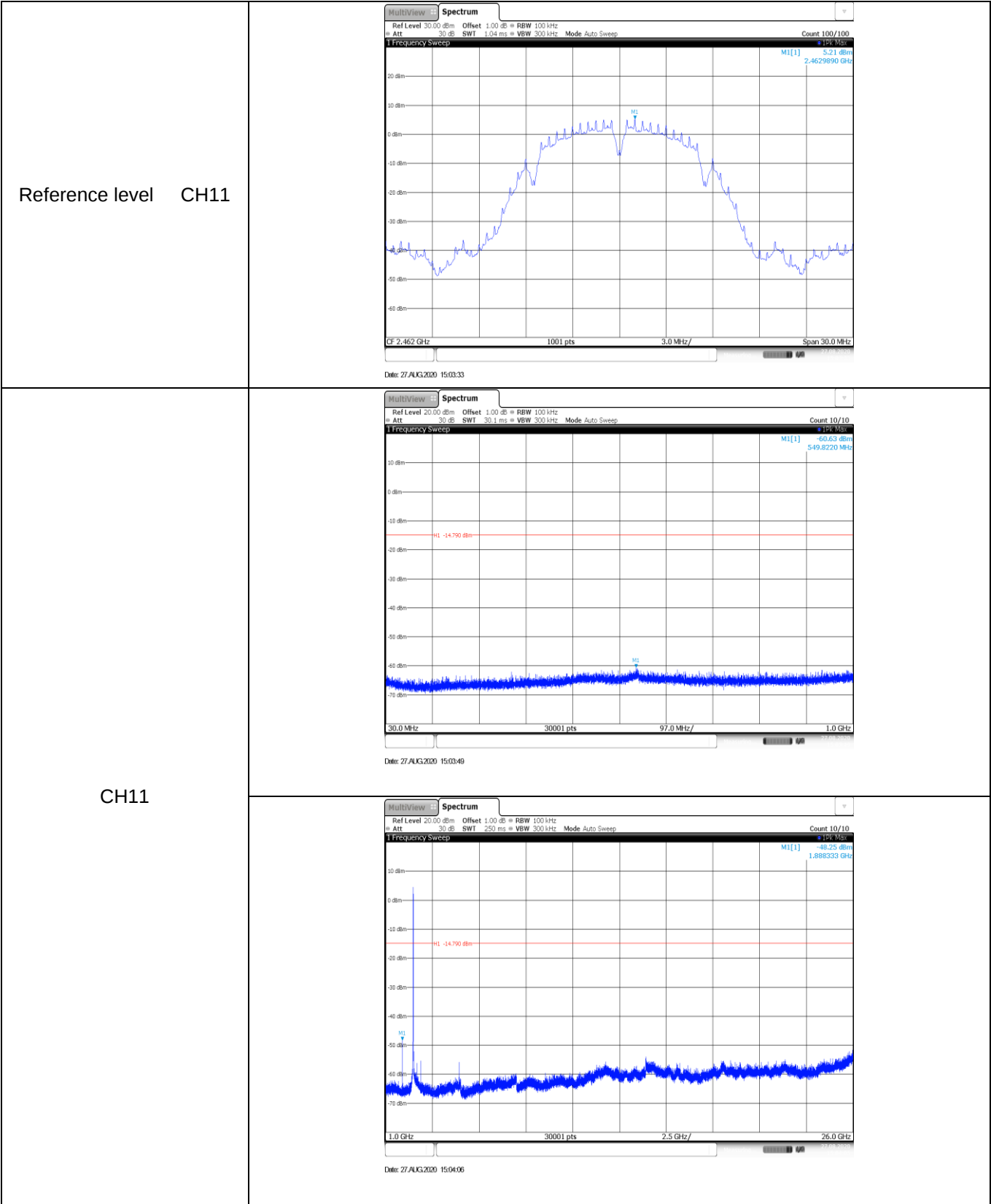


Test Item:	Bandedge	802.11 g	Antenna 1																																										
CH01	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep M1[1] -1.48 dBm 2.405720 GHz M2[1] -39.77 dBm 2.400000 GHz 10 dBm 0 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 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>-1.48 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.77 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-45.97 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-61.78 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.397024 GHz</td><td>-37.93 dBm</td><td></td><td></td></tr></table> Date: 27/AUG/2020 15:43:49			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40572 GHz	-1.48 dBm			M2	1		2.4 GHz	-39.77 dBm			M3	1		2.39 GHz	-45.97 dBm			M4	1		2.31 GHz	-61.78 dBm			M5	1		2.397024 GHz	-37.93 dBm		
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M3	1		2.5 GHz	-54.29 dBm																																									
M4	1		2.483872 GHz	-46.41 dBm																																									

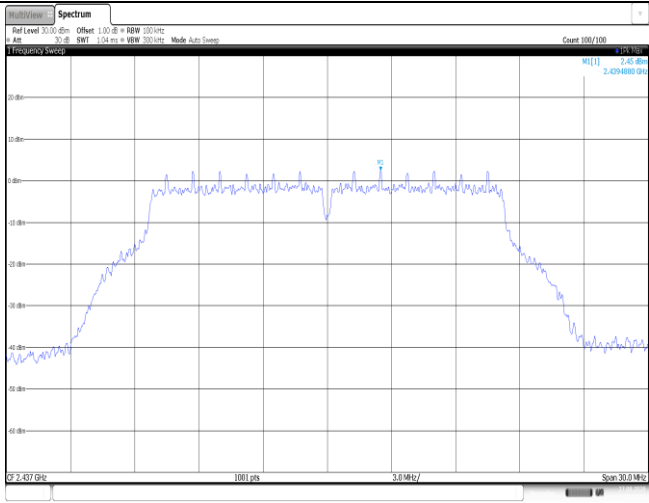
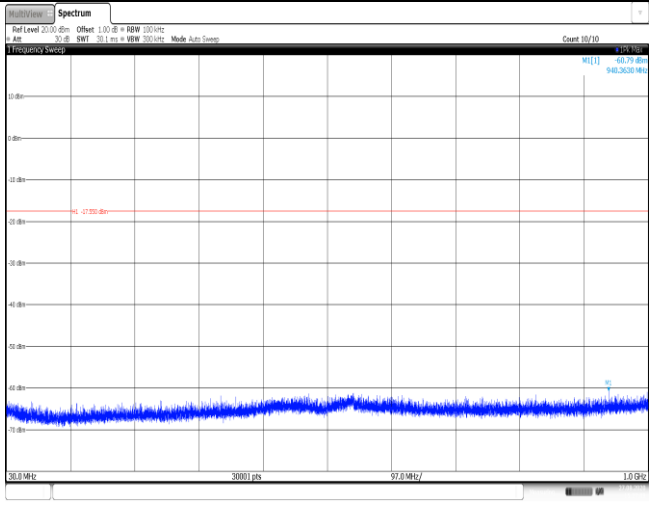
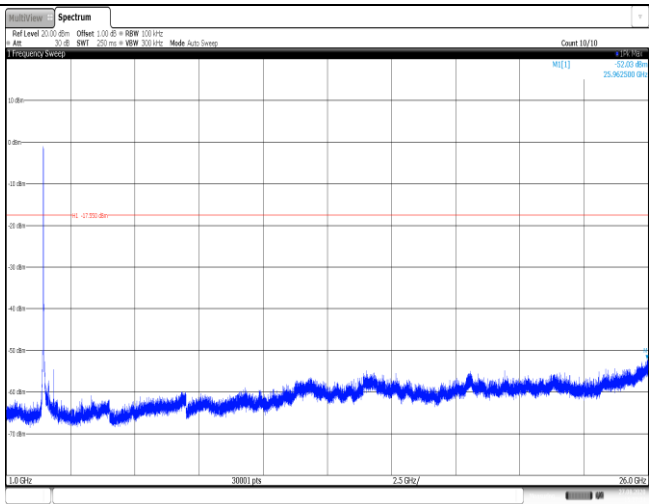
Test Item:	Bandedge	802.11 n(HT20)	Antenna 1																																										
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300 Frequency Sweep 150 MHz M1[1] -1.62 dBm M2[1] 2.406950 GHz -39.27 dBm 2.400000 GHz 20 dBm 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 2 Marker Table <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.40695 GHz</td><td>-1.62 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-39.27 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-42.67 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-62.25 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.397024 GHz</td><td>-38.75 dBm</td><td></td><td></td></tr></tbody></table> Date: 27/AUG/2020 15:49:28			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40695 GHz	-1.62 dBm			M2	1		2.4 GHz	-39.27 dBm			M3	1		2.39 GHz	-42.67 dBm			M4	1		2.31 GHz	-62.25 dBm			M5	1		2.397024 GHz	-38.75 dBm		
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CH11	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300 Frequency Sweep 150 MHz M1[1] -0.75 dBm M2[1] 2.4644920 GHz -46.11 dBm 2.4835000 GHz 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz 2 Marker Table <table><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>2.464492 GHz</td><td>-0.75 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-46.11 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-54.33 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483824 GHz</td><td>-46.24 dBm</td><td></td><td></td></tr></tbody></table> Date: 27/AUG/2020 15:53:49			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.464492 GHz	-0.75 dBm			M2	1		2.4835 GHz	-46.11 dBm			M3	1		2.5 GHz	-54.33 dBm			M4	1		2.483824 GHz	-46.24 dBm									
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M3	1		2.5 GHz	-54.33 dBm																																									
M4	1		2.483824 GHz	-46.24 dBm																																									

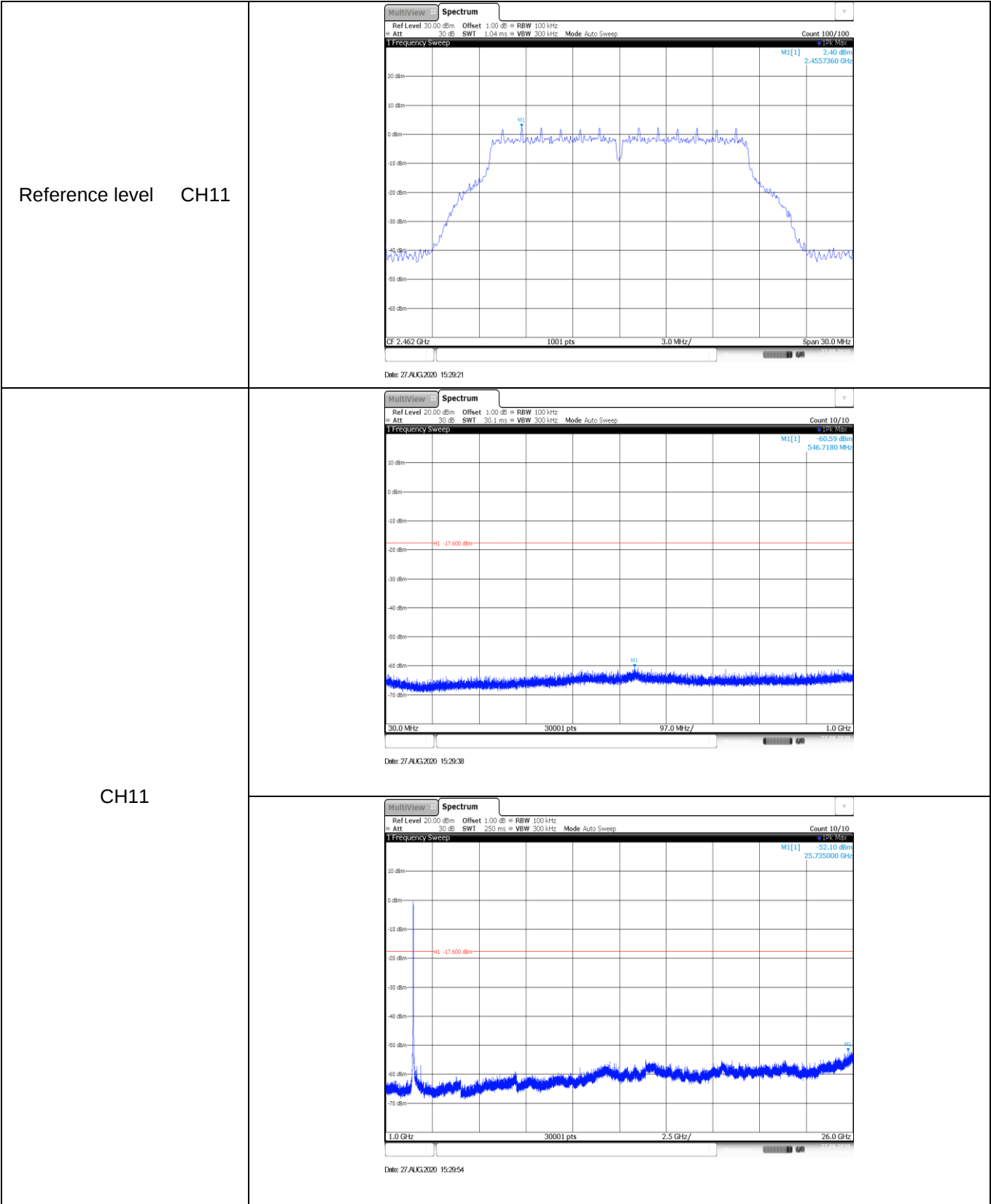
Test Item:	SE	802.11 b	Antenna 0
Reference level CH01	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.04 ms VSW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 3.75 dBm 2.4109810 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27/AUG/2020 14:56:56		
CH01	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 30.1 ms VSW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.07 dBm 5.438400 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27/AUG/2020 14:57:12		
	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 250 ms VSW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -50.00 dBm 2.632500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27/AUG/2020 14:57:28		

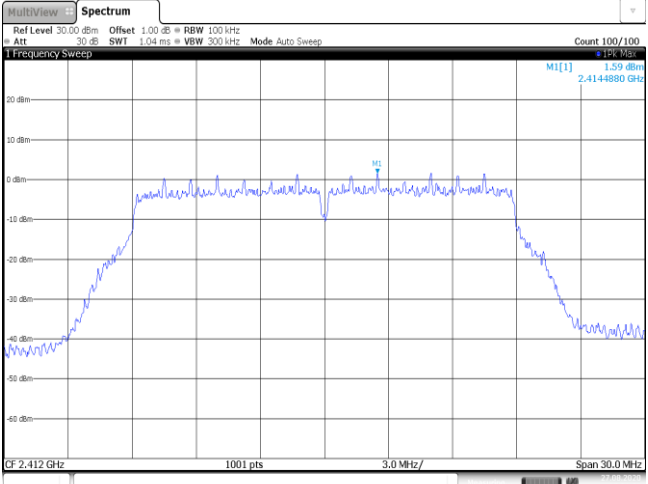
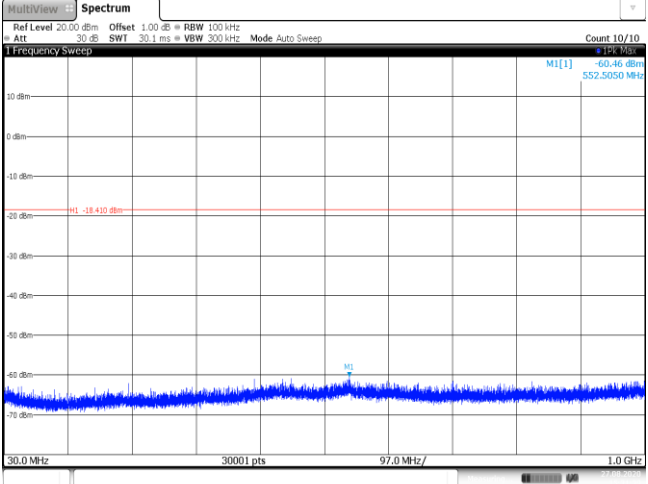
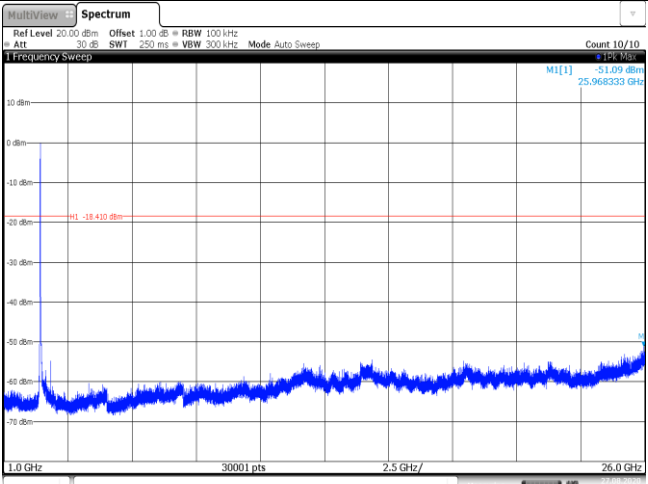




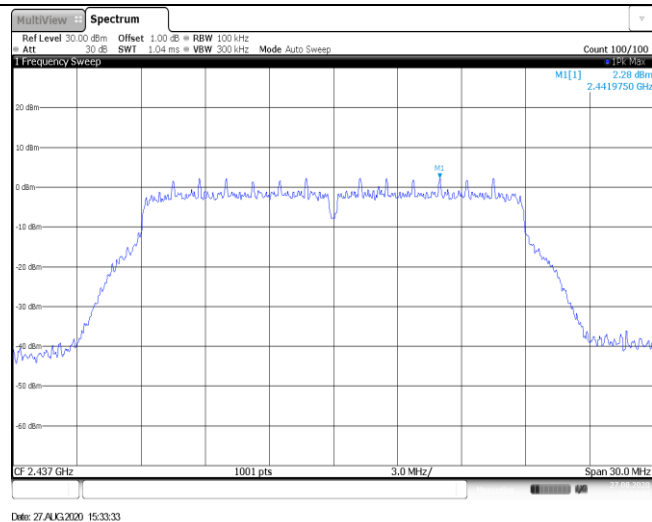
Test Item:	SE	802.11 g	Antenna 0
Reference level CH01	MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 = Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm MI[1] 1.73 dBm 2.4144880 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27/AUG/2020 15:05:03		
CH01	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 = Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm MI[1] -60.22 dBm 977.5450 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27/AUG/2020 15:05:19		
	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 = Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm MI[1] -52.44 dBm 2.813333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27/AUG/2020 15:05:36		

Reference level CH06	 Spectrum plot showing a signal with a peak at 2.437 GHz. The y-axis is dBm from -60 to 20. The x-axis is frequency from 2.437 GHz to 2.457 GHz. A red line indicates the reference level at -17.50 dBm.
CH06	 Spectrum plot showing a signal with a peak at 2.437 GHz. The y-axis is dBm from -60 to 20. The x-axis is frequency from 2.437 GHz to 2.457 GHz. A red line indicates the reference level at -17.50 dBm.
	 Spectrum plot showing a signal with a peak at 2.437 GHz. The y-axis is dBm from -60 to 20. The x-axis is frequency from 2.437 GHz to 2.457 GHz. A red line indicates the reference level at -17.50 dBm.

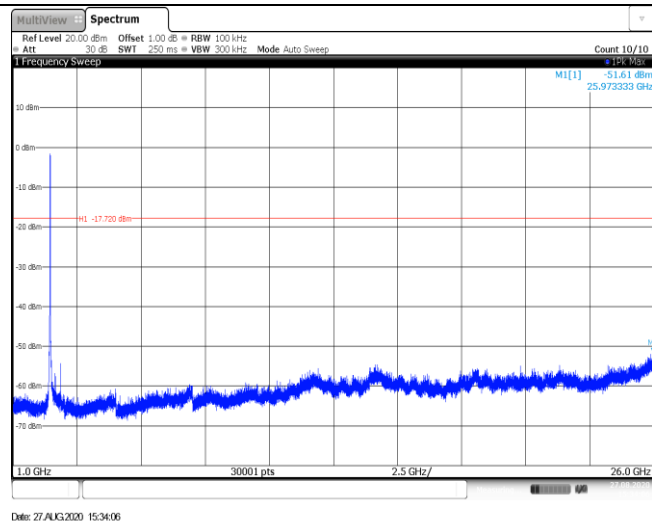
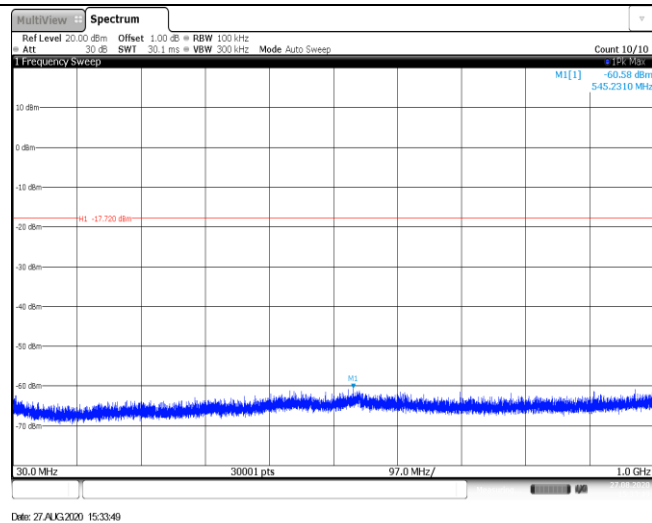


Test Item:	SE	802.11 n(HT20)	Antenna 0
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CH01		 552.5050 MHz	
		 25.968333 GHz	

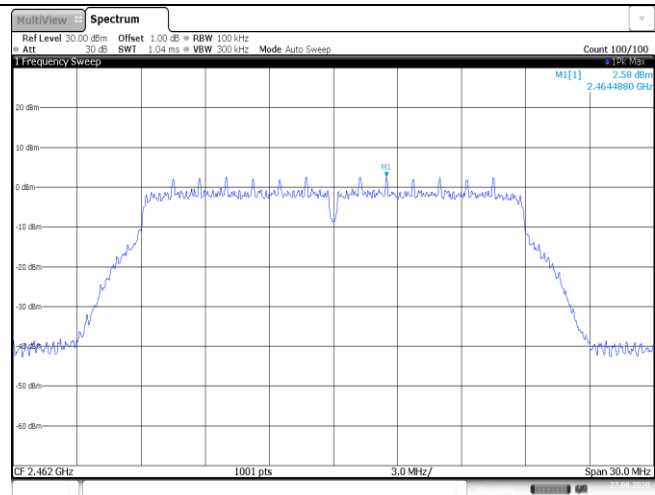
Reference level CH06



CH06

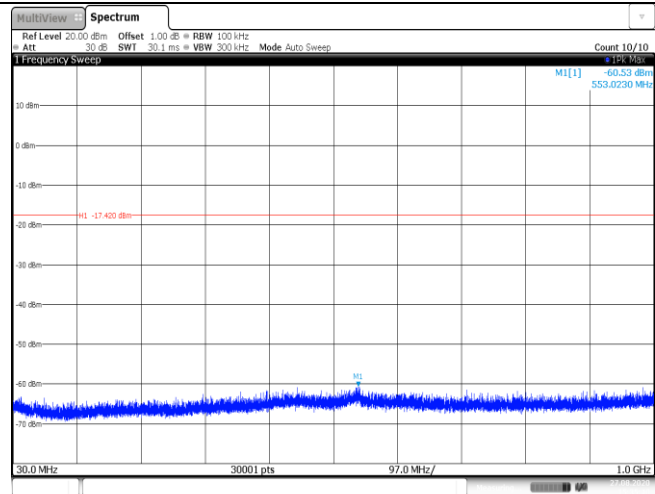


Reference level CH11

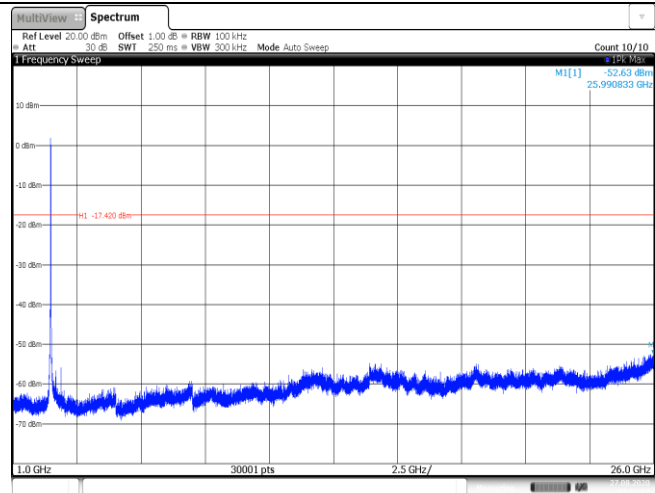


Date: 27 AUG 2020 15:35:24

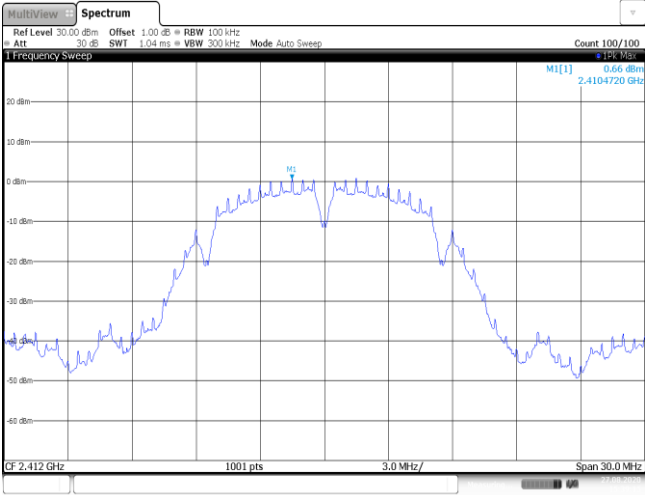
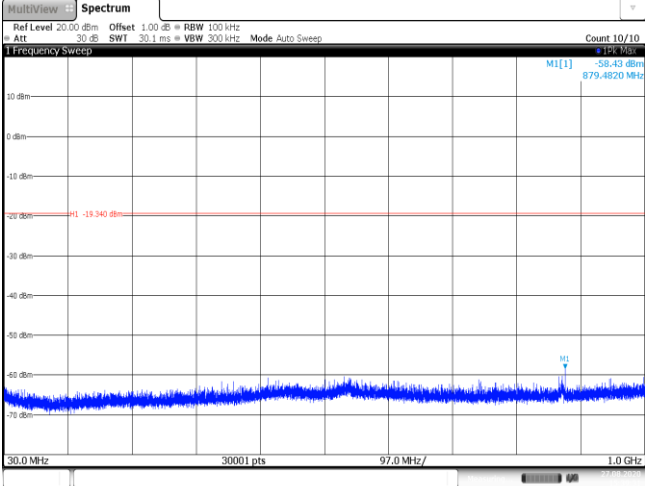
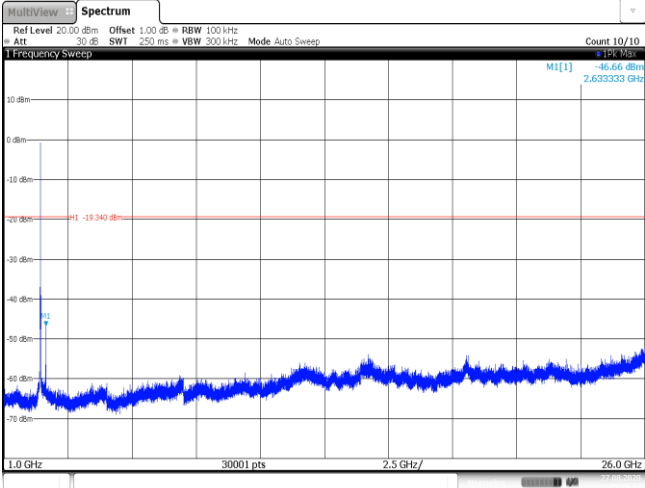
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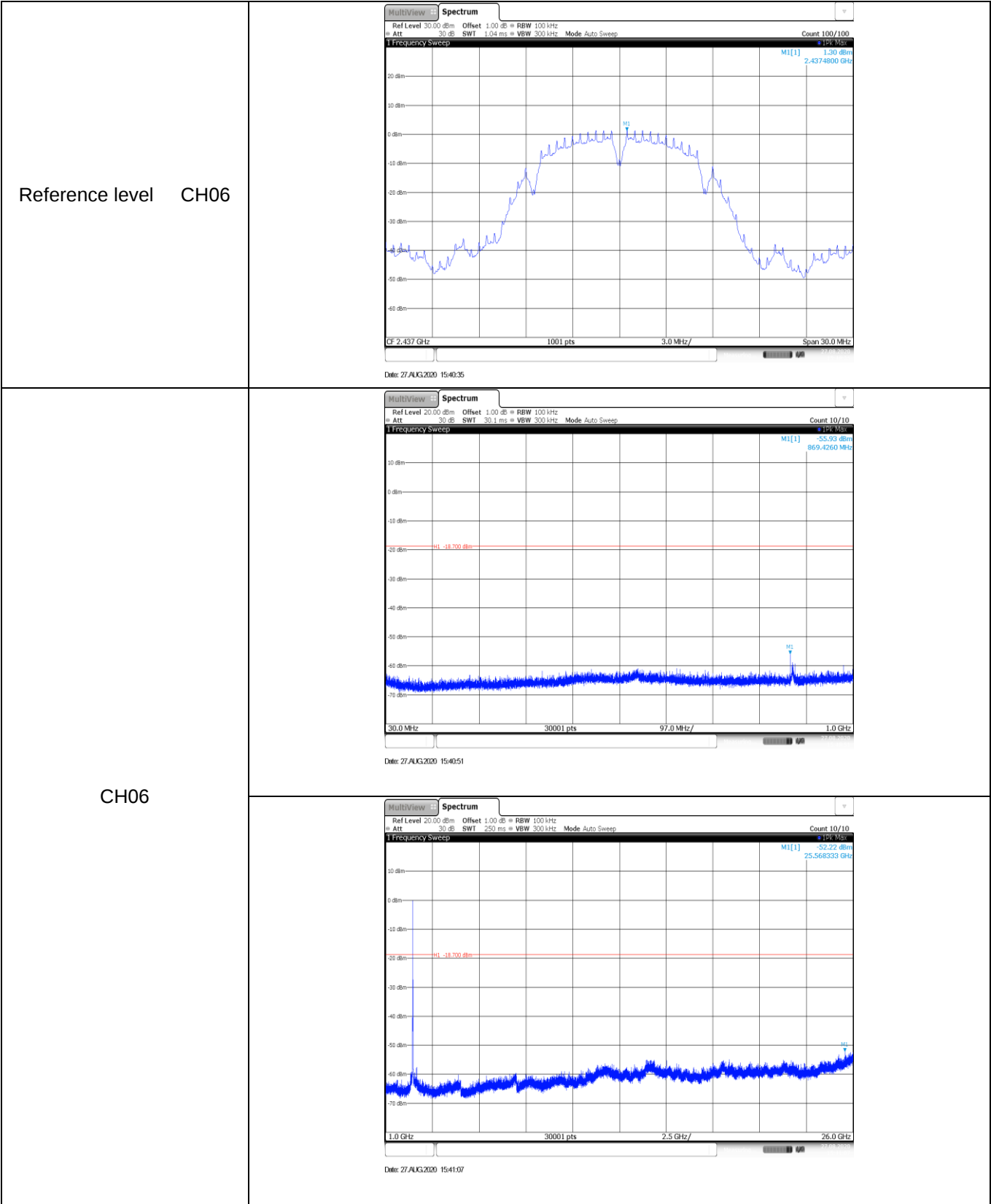


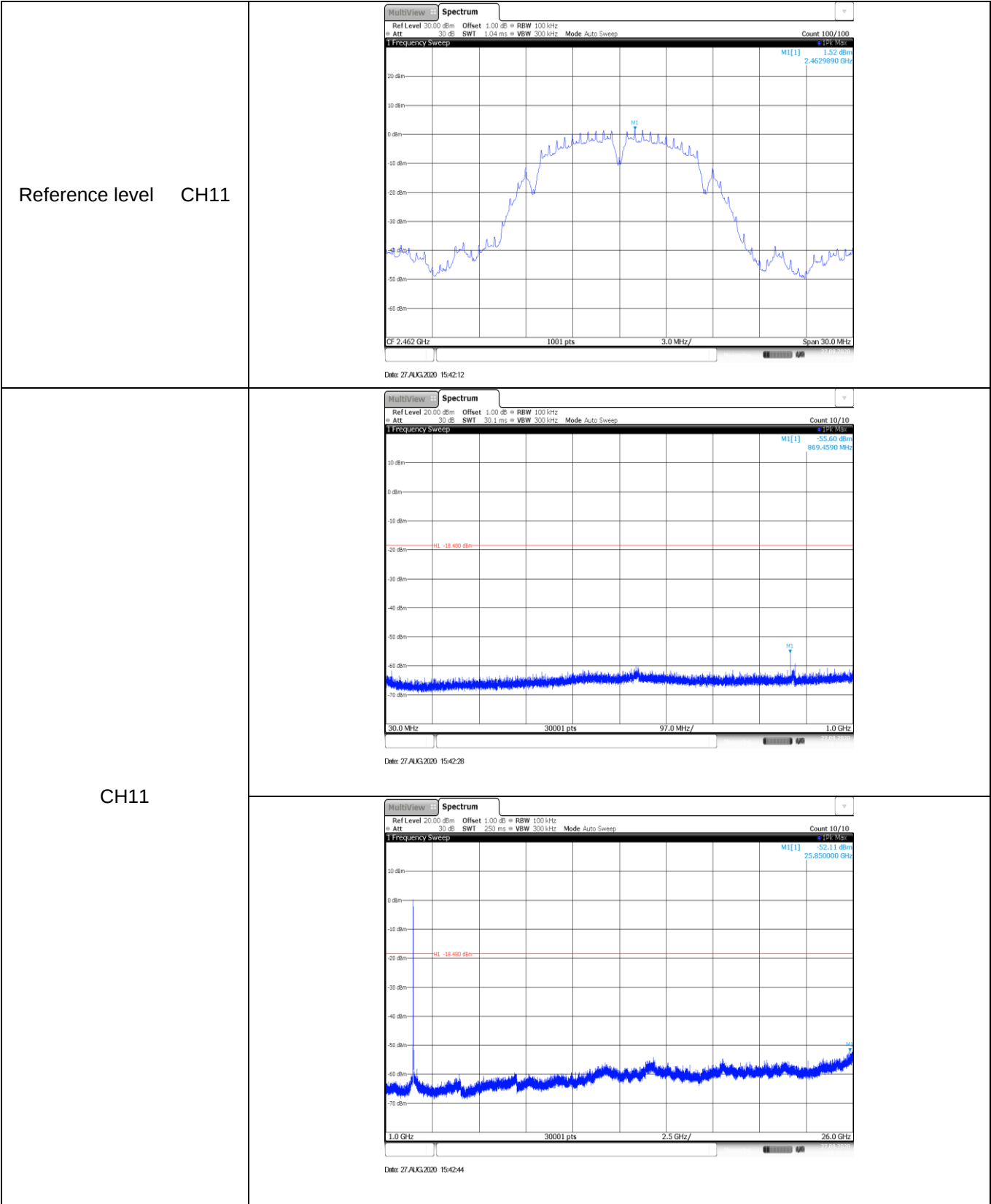
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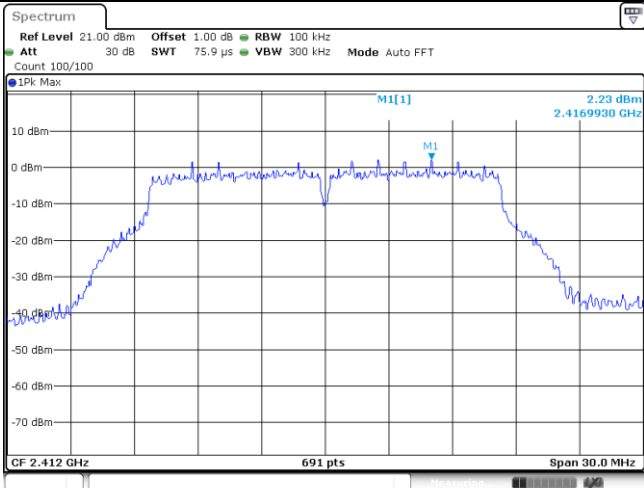
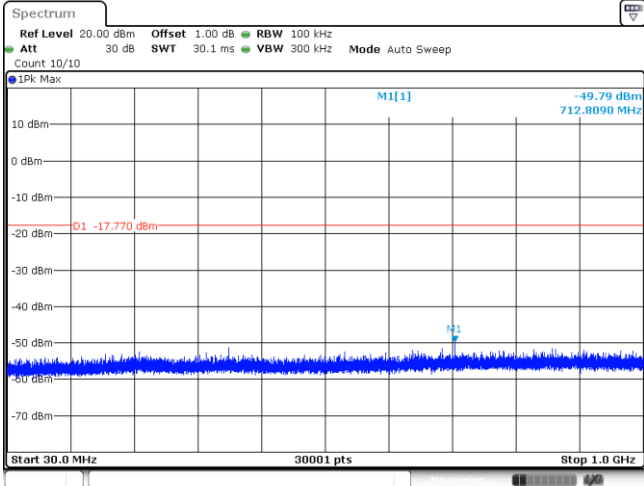
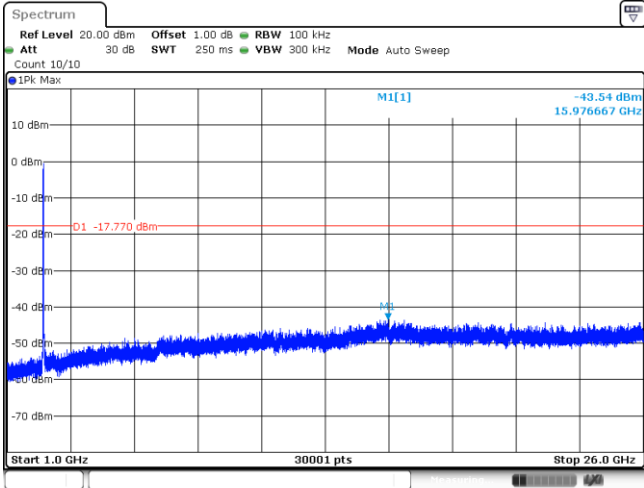


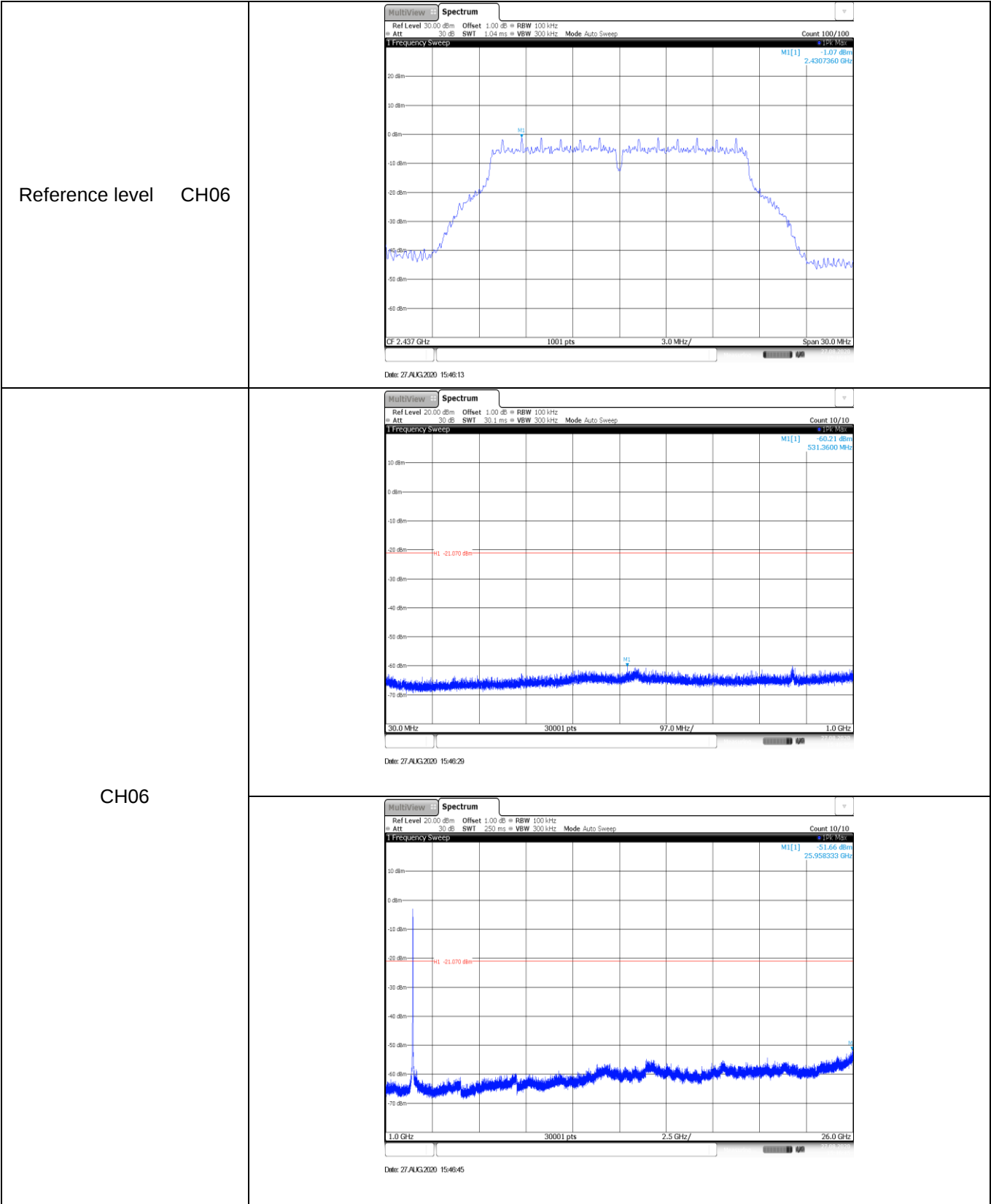
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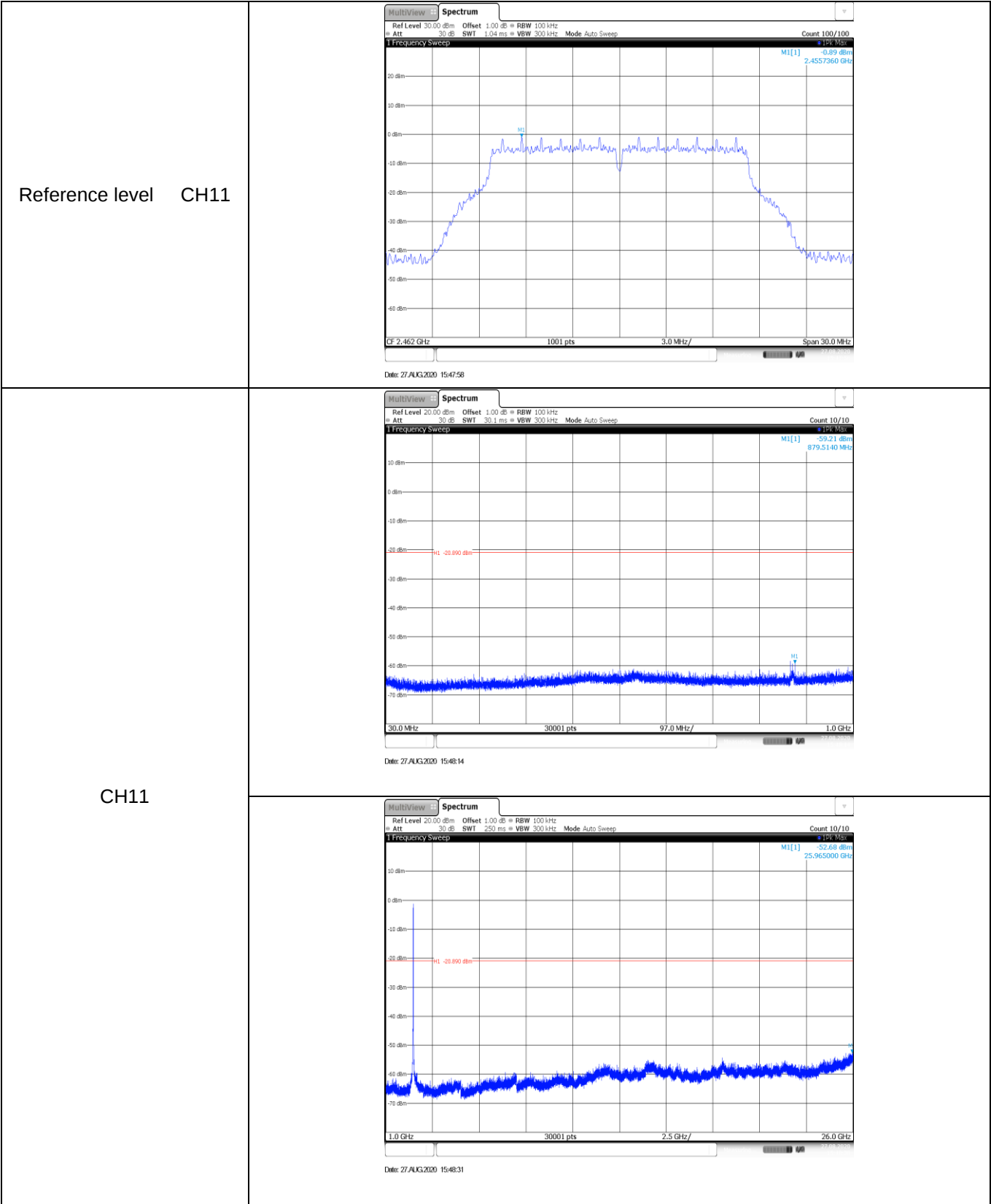
Test Item:	SE	802.11 b	Antenna 1
Reference level CH01			
CH01			
			



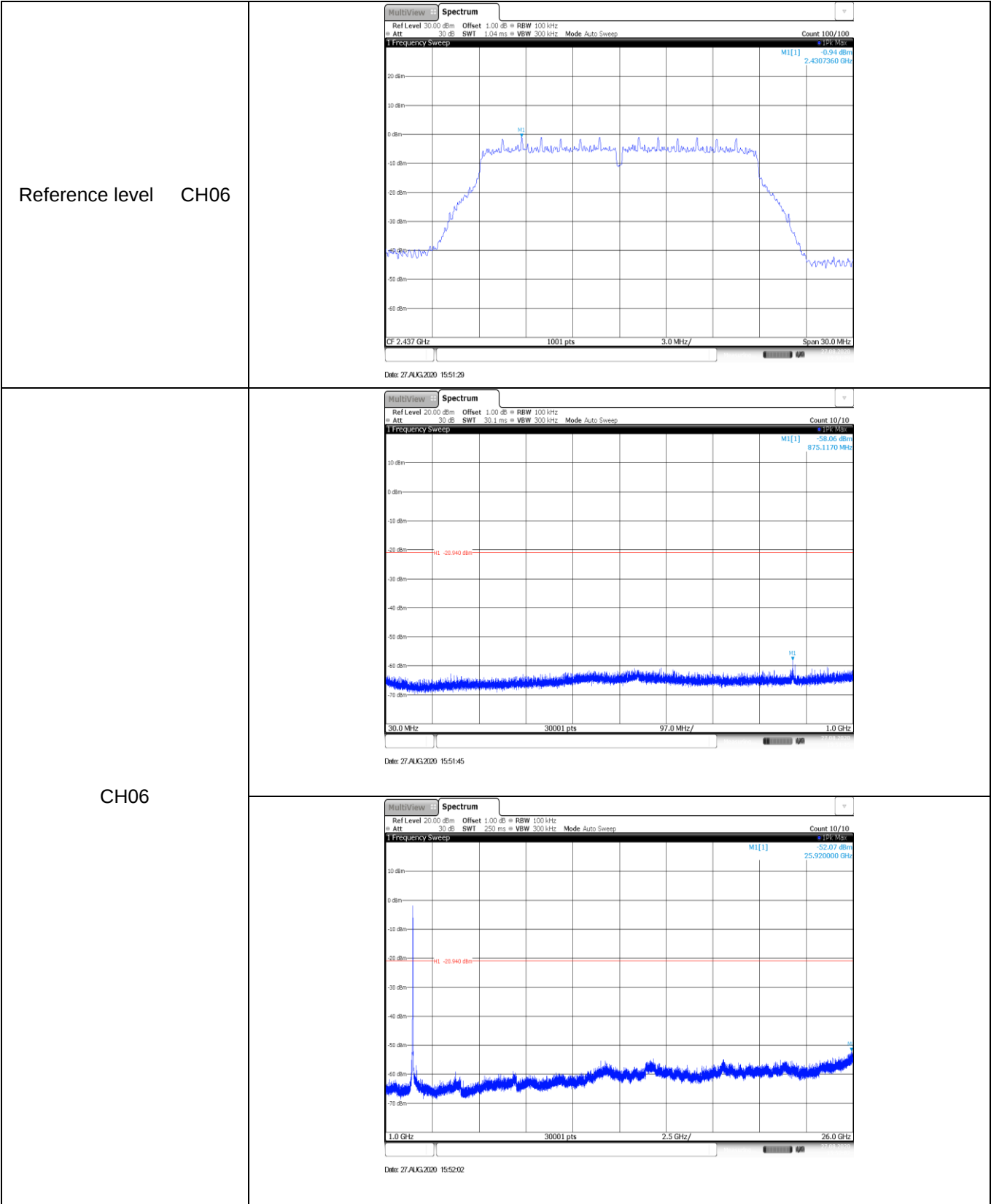


Test Item:	SE	802.11 g	Antenna 1
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CH01	 Date: 28.AUG.2020 18:38:47		
	 Date: 28.AUG.2020 18:39:03		

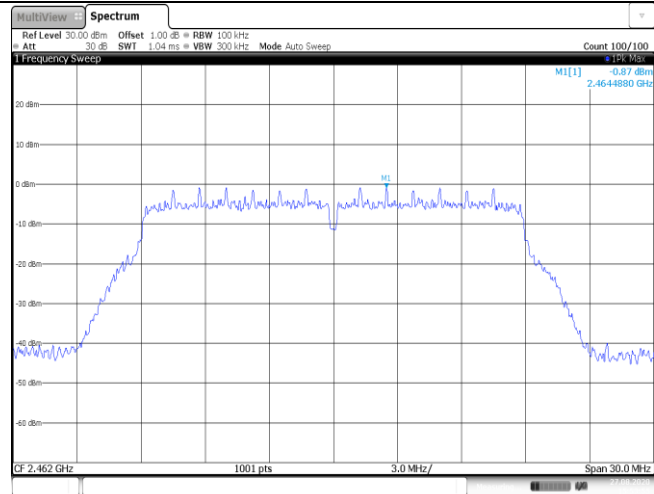




Test Item:	SE	802.11 n(HT20)	Antenna 1
Reference levelCH01	MultiViewSpectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 Att 30 dB SWF 1.04 ms VSW 300 kHz Mode Auto Sweep 1 Frequency Sweep 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm MU[1] -1.61 dBm 2.4069950 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27/AUG/2020 15:49:35		
CH01	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 Att 30 dB SWF 30.1 ms VSW 300 kHz Mode Auto Sweep 1 Frequency Sweep 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm MU[1] -58.31 dBm 879.4820 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27/AUG/2020 15:49:51		
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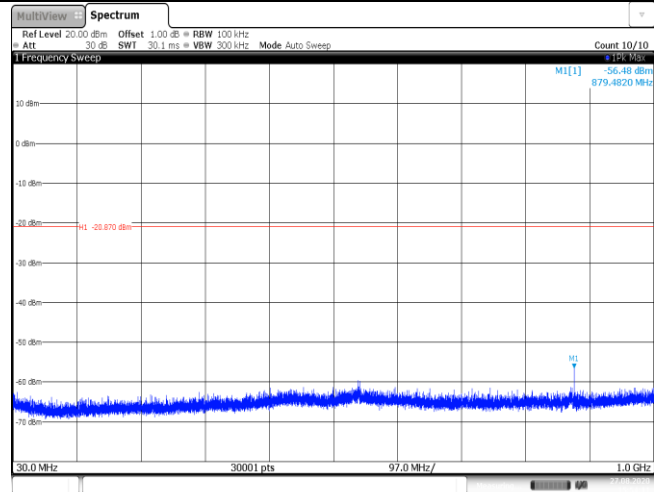


Reference level CH11

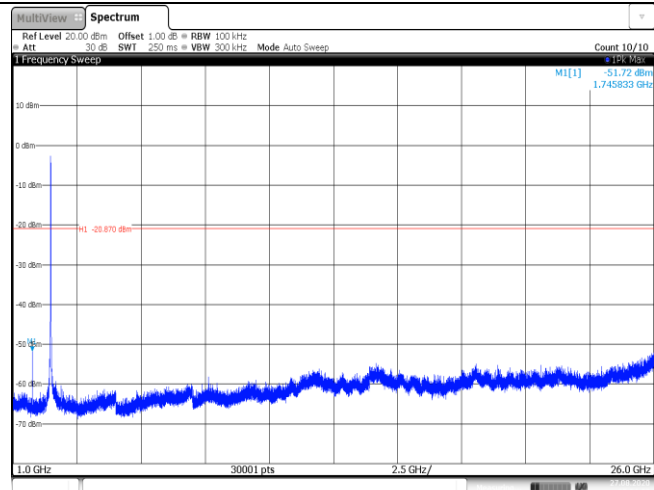


Date: 27/AUG/2020 15:53:56

CH11



Date: 27/AUG/2020 15:54:11



Date: 27/AUG/2020 15:54:28

.....End of Report.....