

APPENDIX REPORT

Project No.	SHT2205063201EW	Radio Specification	WIFI 5G
Test sample No.	YPHT22050632001	Model No.	LitBike
Start test date	2022-09-03	Finish date	2022-09-21
Temperature	24.9℃	Humidity	39%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhuo

Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	26 dB Bandwidth	PASS
D	99% Occupy bandwidth	PASS
E	6 dB Bandwidth	PASS
F	Frequency stability	PASS

Appendix A: Maximum Conducted Output Power

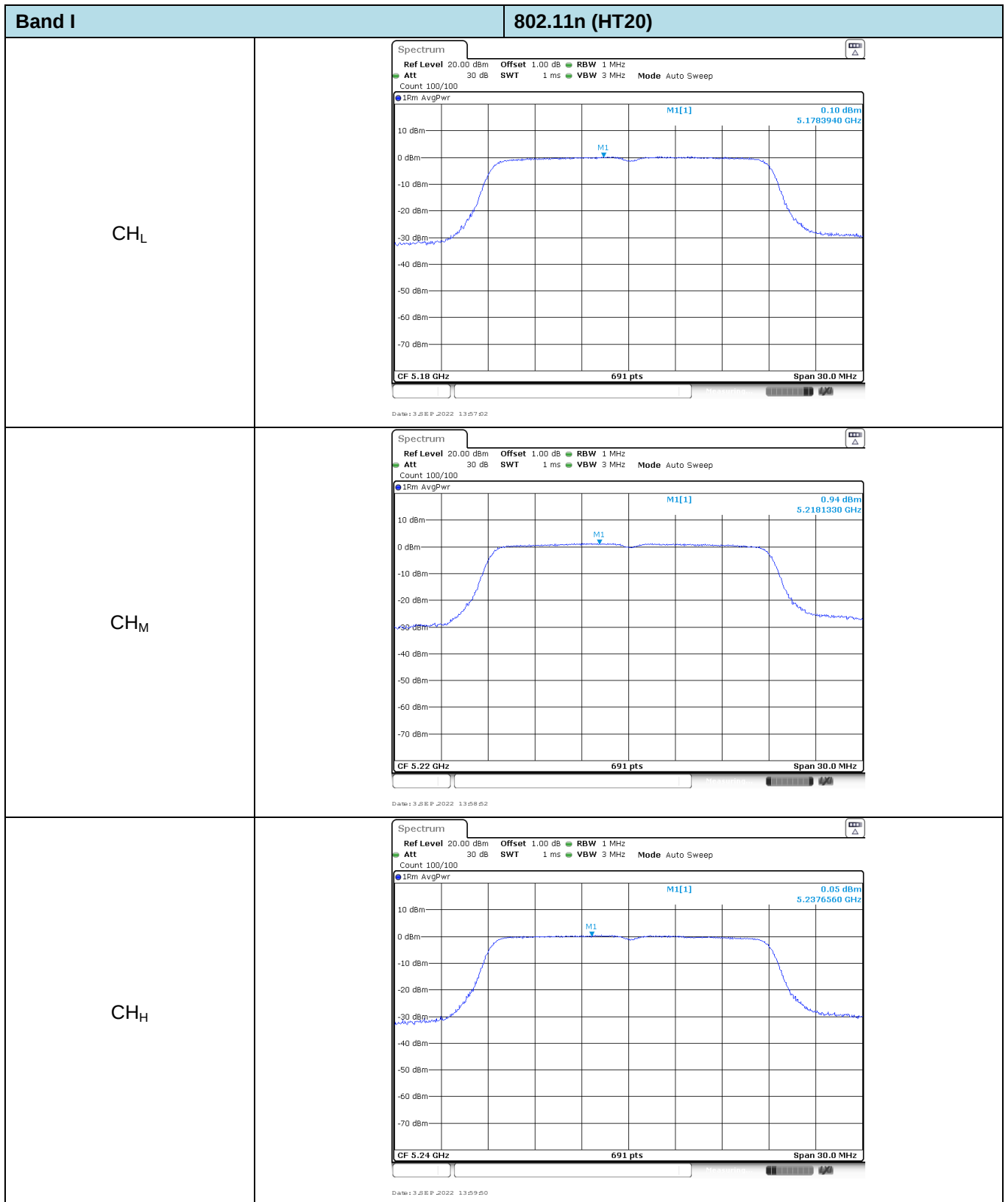
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11n	CH _L	9.96	96.47	0.16	10.12	24.00	Pass
			CH _M	10.75	96.47	0.16	10.91		
			CH _H	10.18	96.38	0.16	10.34		
		802.11a	CH _L	10.09	96.69	0.15	10.24	24.00	Pass
			CH _M	10.82	96.68	0.15	10.97		
			CH _H	10.23	96.68	0.15	10.38		
II	20	802.11n	CH _L	10.11	96.47	0.16	10.27	24.00	Pass
			CH _M	10.15	96.38	0.16	10.31		
			CH _H	11.42	96.47	0.16	11.58		
		802.11a	CH _L	10.71	96.69	0.15	10.86	24.00	Pass
			CH _M	10.09	96.68	0.15	10.24		
			CH _H	11.29	96.69	0.15	11.44		
III	20	802.11n	CH _L	11.05	96.47	0.16	11.21	24.00	Pass
			CH _M	10.05	96.38	0.16	10.21		
			CH _H	10.65	96.56	0.15	10.80		
		802.11a	CH _L	10.45	96.60	0.15	10.60	24.00	Pass
			CH _M	10.00	96.68	0.15	10.15		
			CH _H	10.82	96.69	0.15	10.97		
IV	20	802.11n	CH _L	10.14	96.47	0.16	10.30	30.00	Pass
			CH _M	11.39	96.47	0.16	11.55		
			CH _H	10.72	96.47	0.16	10.88		
		802.11a	CH _L	11.25	96.77	0.14	11.39	30.00	Pass
			CH _M	11.27	96.77	0.14	11.41		
			CH _H	10.89	96.69	0.15	11.04		

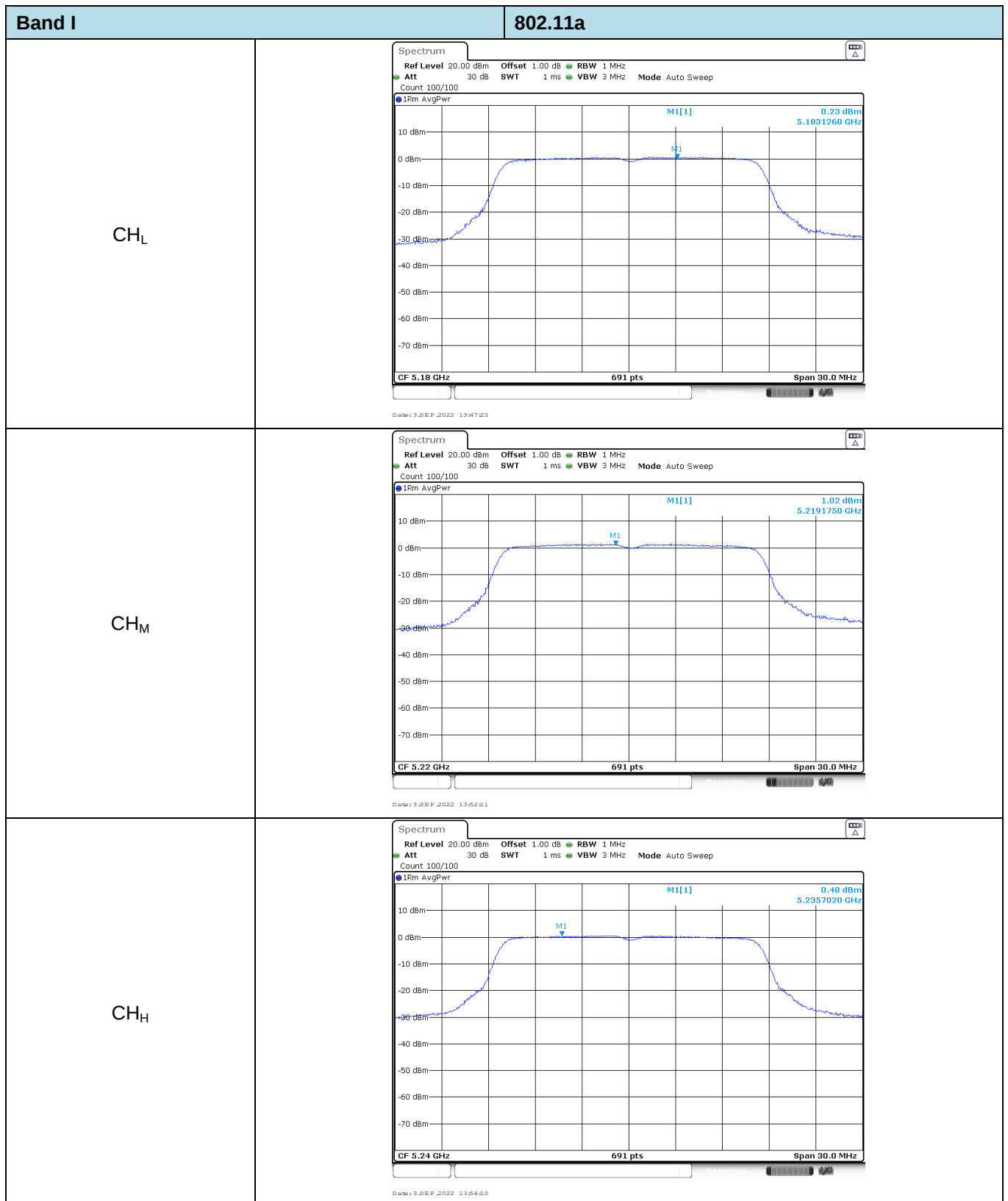
NOTE: duty cycle factor =10LOG(1/ duty cycle)

Appendix B: Maximum Power Spectral Density

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11n	CH _L	0.10	96.47	0.16	0.26	11.00	Pass
			CH _M	0.94	96.47	0.16	1.10		
			CH _H	0.05	96.38	0.16	0.21		
		802.11a	CH _L	0.23	96.69	0.15	0.38	11.00	Pass
			CH _M	1.02	96.68	0.15	1.17		
			CH _H	0.48	96.68	0.15	0.63		
II	20	802.11n	CH _L	0.23	96.47	0.16	0.39	11.00	Pass
			CH _M	0.31	96.38	0.16	0.47		
			CH _H	1.48	96.47	0.16	1.64		
		802.11a	CH _L	0.96	96.69	0.15	1.11	11.00	Pass
			CH _M	0.57	96.68	0.15	0.72		
			CH _H	1.42	96.69	0.15	1.57		
III	20	802.11n	CH _L	-0.42	96.47	0.16	-0.26	11.00	Pass
			CH _M	-1.30	96.38	0.16	-1.14		
			CH _H	-0.23	96.56	0.15	-0.08		
		802.11a	CH _L	-0.67	96.60	0.15	-0.52	11.00	Pass
			CH _M	-0.25	96.68	0.15	-0.1		
			CH _H	-0.73	96.69	0.15	-0.58		
IV	20	802.11n	CH _L	-4.02	96.47	0.16	-3.86	30.00	Pass
			CH _M	-3.28	96.47	0.16	-3.12		
			CH _H	-3.98	96.47	0.16	-3.82		
		802.11a	CH _L	-2.59	96.77	0.14	-2.45	30.00	Pass
			CH _M	-2.23	96.77	0.14	-2.09		
			CH _H	-3.76	96.69	0.15	-3.61		

Test plot as follows:

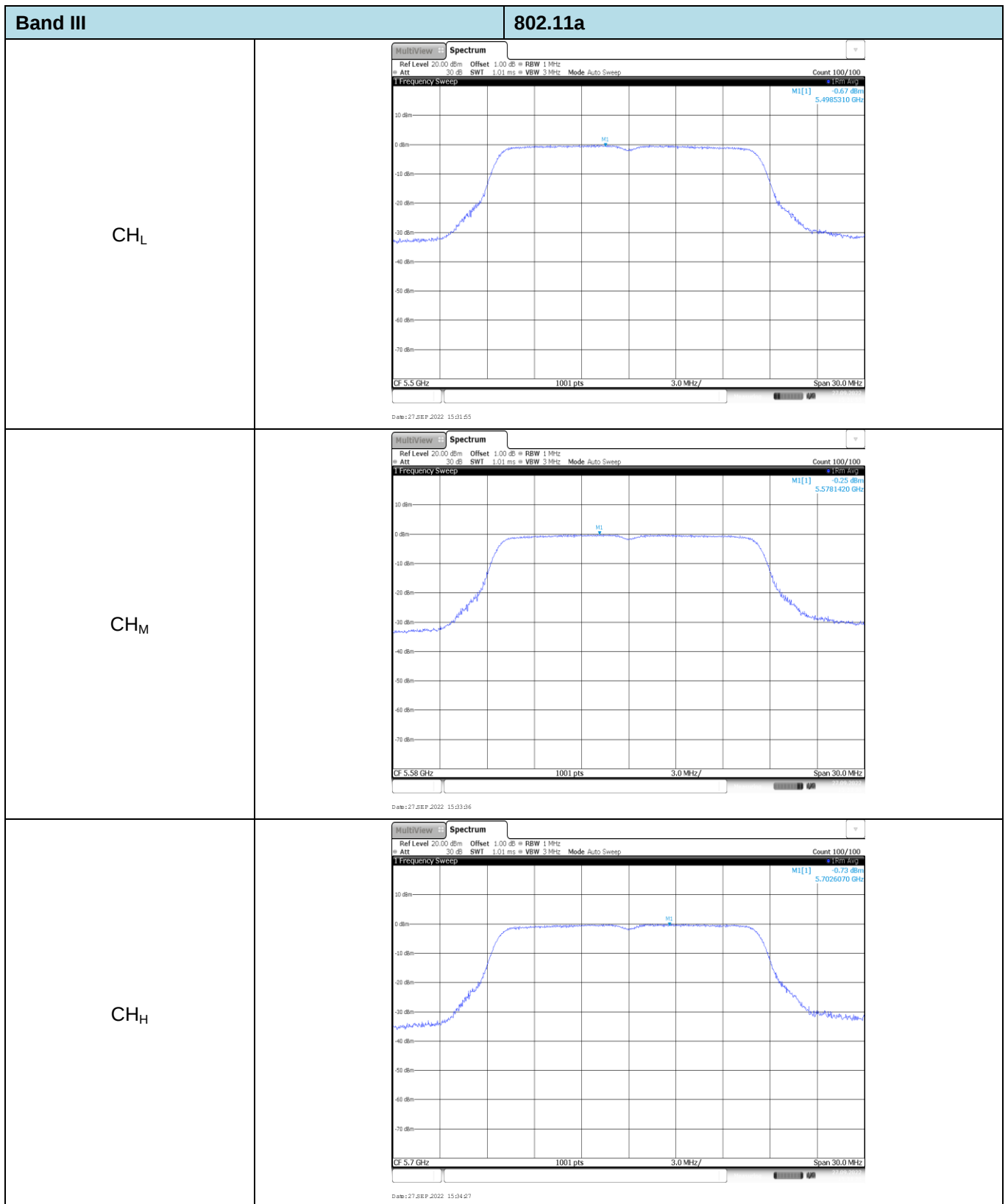




Band II		802.11n (HT20)
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1 M1[1] 0.23 dBm 5.2567870 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 691 pts Span 30.0 MHz Date: 3 SEP 2022 14:09:02	
CH _M	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1 M1[1] 0.31 dBm 5.2765700 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 691 pts Span 30.0 MHz Date: 3 SEP 2022 14:10:02	
CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1 M1[1] 1.48 dBm 5.3231690 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 691 pts Span 30.0 MHz Date: 27 SEP 2022 15:17:46	

Band II		802.11a
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1[1] 0.96 dBm 5.2573520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 691 pts Span 30.0 MHz Date: 3 SEP 2022 14:03:03	
CH _M	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1[1] 0.57 dBm 5.2773520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 691 pts Span 30.0 MHz Date: 3 SEP 2022 14:04:51	
CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep Count 100/100 1Rm AvgPwr M1[1] 1.42 dBm 5.3244280 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 691 pts Span 30.0 MHz Date: 27 SEP 2022 15:17:11	

Band III		802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -0.42 dBm 5.4979020 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:05:09	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -1.30 dBm 5.5785310 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.58 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:08:25	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -0.23 dBm 5.7022480 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.7 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:09:00	



Band IV		802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -4.02 dBm 5.7434420 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:44:59	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -3.28 dBm 5.7805640 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:45:43	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30.0 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MU[1] -3.98 dBm 5.8212240 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27.SEP.2022 15:46:30	

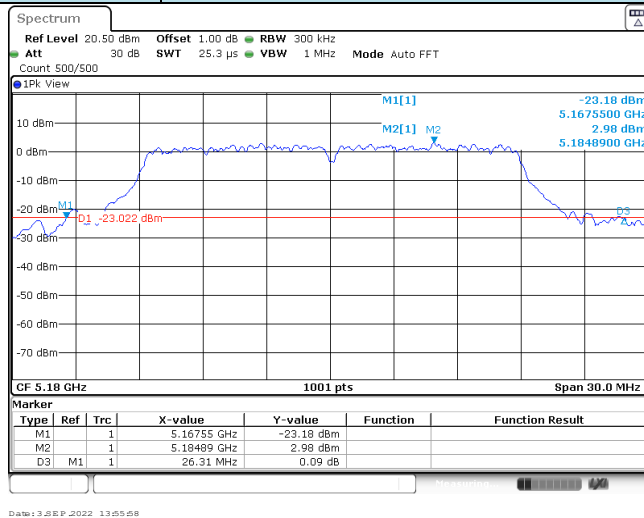
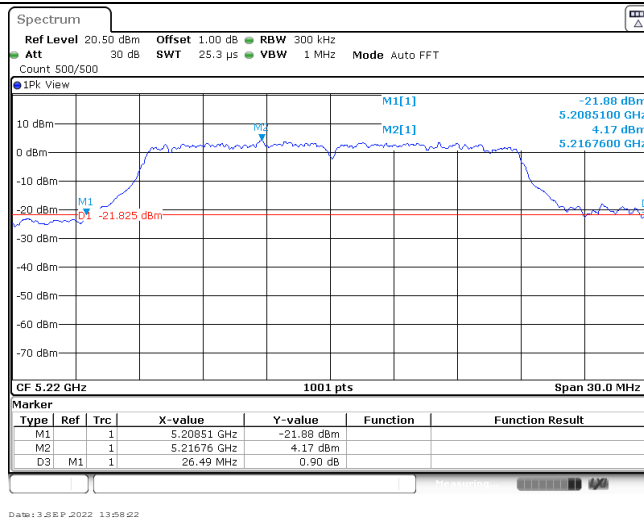
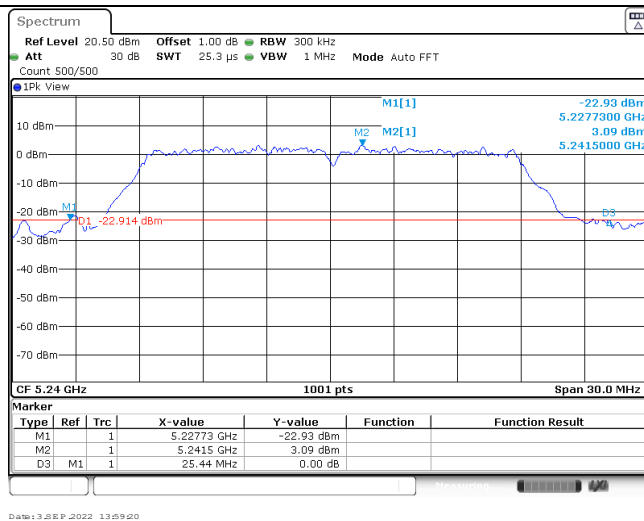
Band IV		802.11a
CH _L		
CH _M		
CH _H		

Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11n	CH _L	26.31	Pass
			CH _M	26.49	
			CH _H	25.44	
		802.11a	CH _L	22.65	Pass
			CH _M	25.56	
			CH _H	22.59	
II	20	802.11n	CH _L	29.37	Pass
			CH _M	26.32	
			CH _H	27.99	
		802.11a	CH _L	25.86	Pass
			CH _M	27.33	
			CH _H	29.70	
III	20	802.11n	CH _L	28.32	Pass
			CH _M	26.13	
			CH _H	29.52	
		802.11a	CH _L	24.66	Pass
			CH _M	23.97	
			CH _H	28.35	

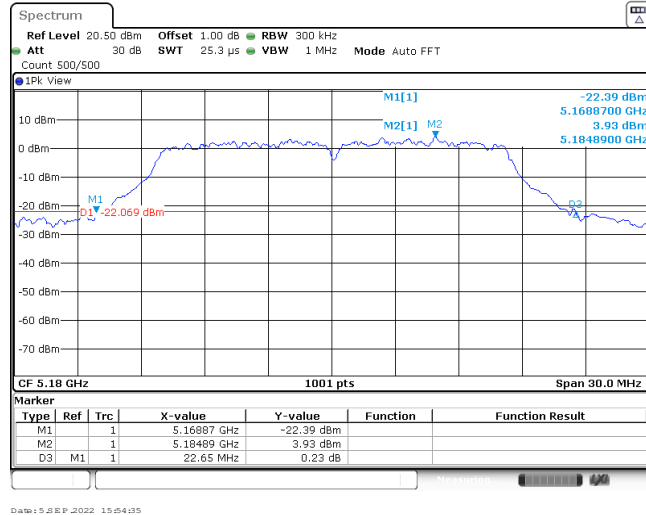
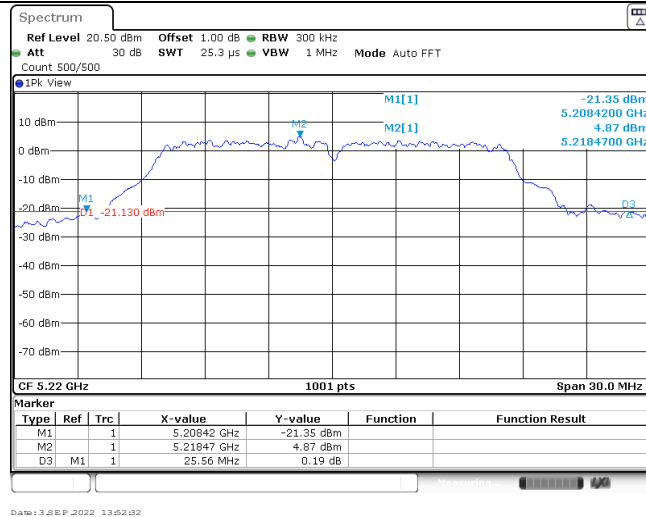
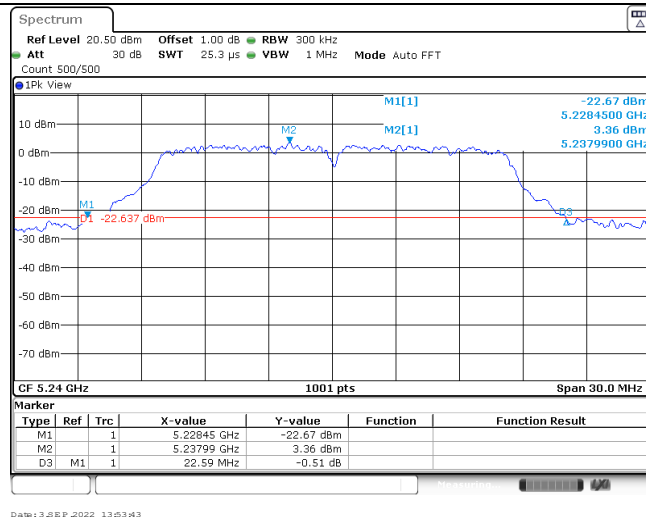
Band I

802.11n (HT20)

CH_LCH_MCH_H

Band I

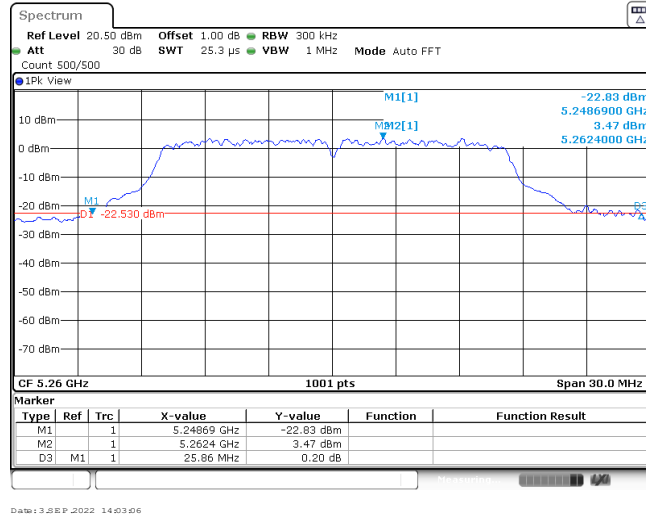
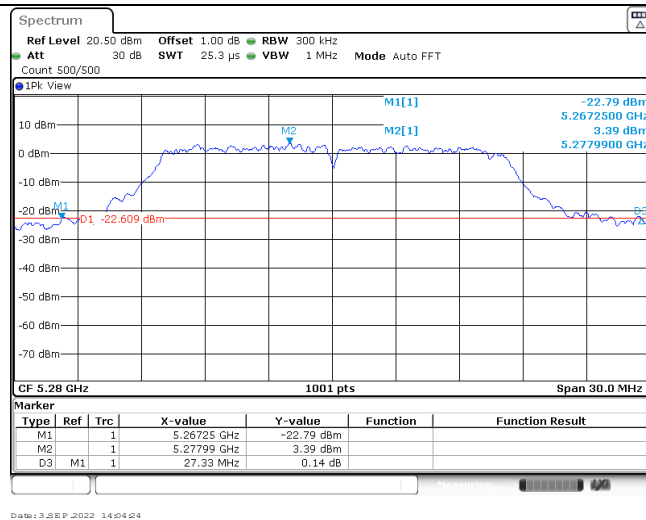
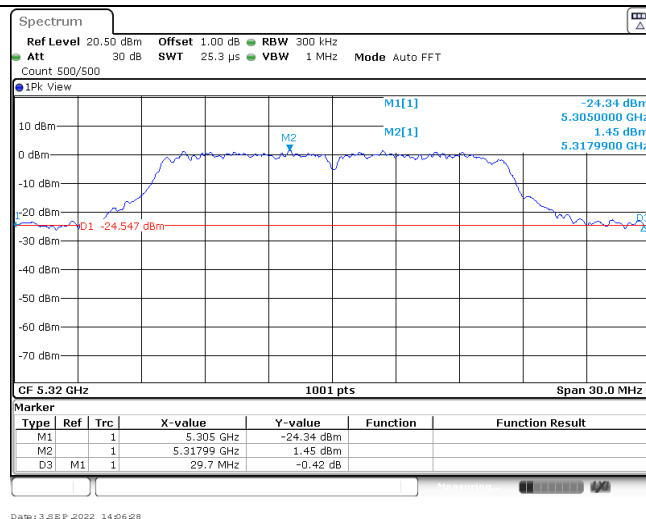
802.11a

CH_LCH_MCH_H

Band II		802.11n (HT20)																											
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 -22.99 dBm 3.38 dBm -22.620 dBm 5.2456300 GHz 5.2573600 GHz CF 5.26 GHz 1001 pts Span 30.0 MHz Marker <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>5.24563 GHz</td><td>-22.99 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.25736 GHz</td><td>3.38 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>29.37 MHz</td><td>0.49 dB</td><td></td><td></td></tr></tbody></table> Date: 3 SEP 2022 14:09:02	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.24563 GHz	-22.99 dBm			M2	1		5.25736 GHz	3.38 dBm			D3	M1	1	29.37 MHz	0.49 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.24563 GHz	-22.99 dBm																									
M2	1		5.25736 GHz	3.38 dBm																									
D3	M1	1	29.37 MHz	0.49 dB																									
CH _M	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 -23.05 dBm 2.95 dBm -23.045 dBm 5.2666800 GHz 5.2781400 GHz CF 5.28 GHz 1001 pts Span 30.0 MHz Marker <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>5.26668 GHz</td><td>-23.05 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.27814 GHz</td><td>2.95 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>28.32 MHz</td><td>0.72 dB</td><td></td><td></td></tr></tbody></table> Date: 3 SEP 2022 15:06:04	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.26668 GHz	-23.05 dBm			M2	1		5.27814 GHz	2.95 dBm			D3	M1	1	28.32 MHz	0.72 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.26668 GHz	-23.05 dBm																									
M2	1		5.27814 GHz	2.95 dBm																									
D3	M1	1	28.32 MHz	0.72 dB																									
CH _H	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 25.3 μs VBW 1 MHz Mode Auto FFT Count 500/500 IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 D1 -24.49 dBm 1.75 dBm -24.250 dBm 5.3070100 GHz 5.3192500 GHz CF 5.32 GHz 1001 pts Span 30.0 MHz Marker <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>5.30701 GHz</td><td>-24.49 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.31925 GHz</td><td>1.75 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>27.99 MHz</td><td>0.53 dB</td><td></td><td></td></tr></tbody></table> Date: 3 SEP 2022 14:12:55	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.30701 GHz	-24.49 dBm			M2	1		5.31925 GHz	1.75 dBm			D3	M1	1	27.99 MHz	0.53 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.30701 GHz	-24.49 dBm																									
M2	1		5.31925 GHz	1.75 dBm																									
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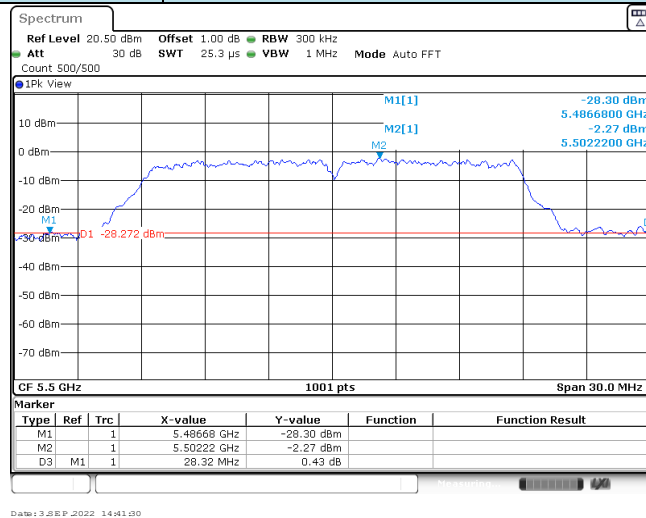
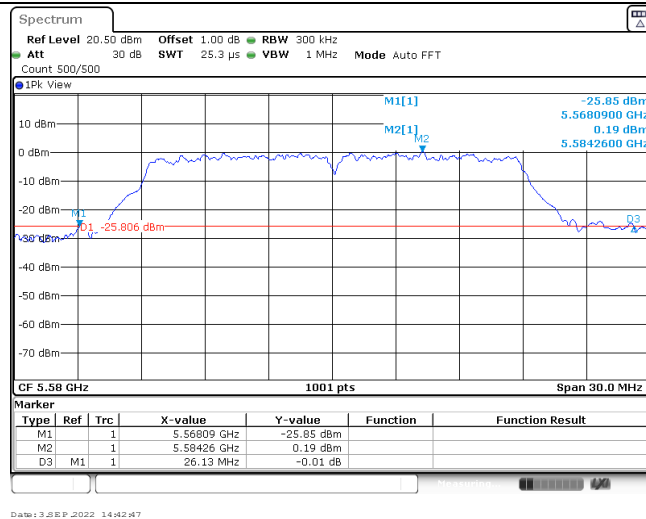
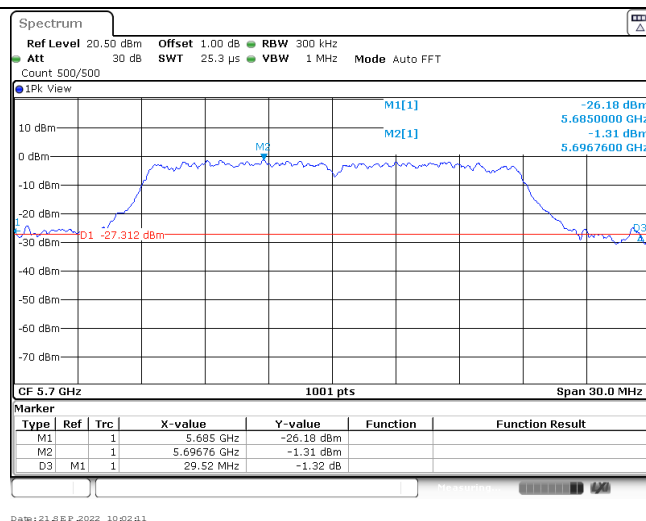
Band II

802.11a

CH_LCH_MCH_H

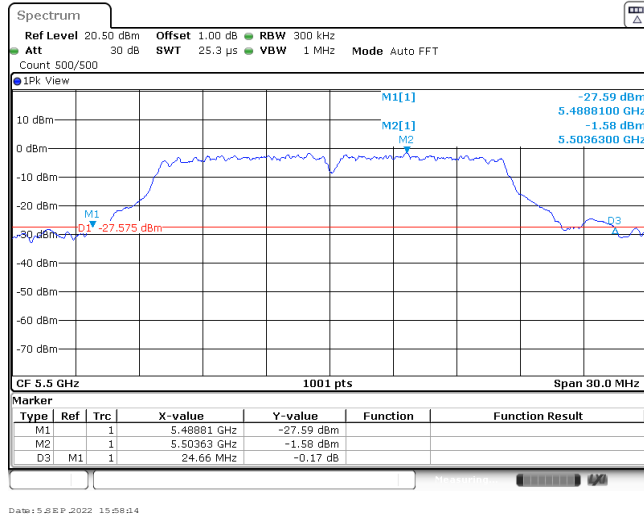
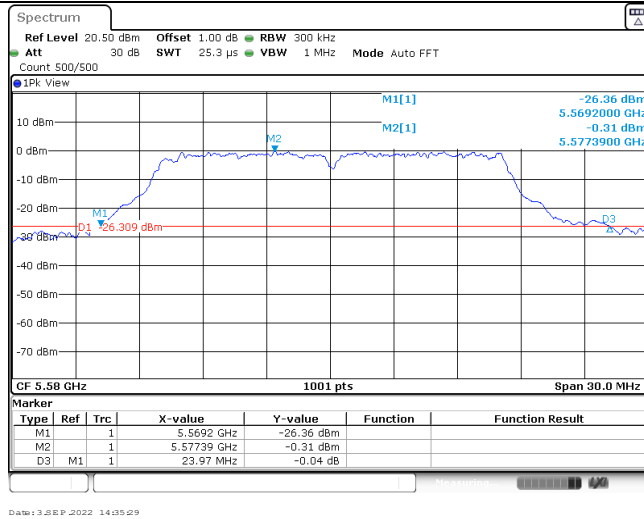
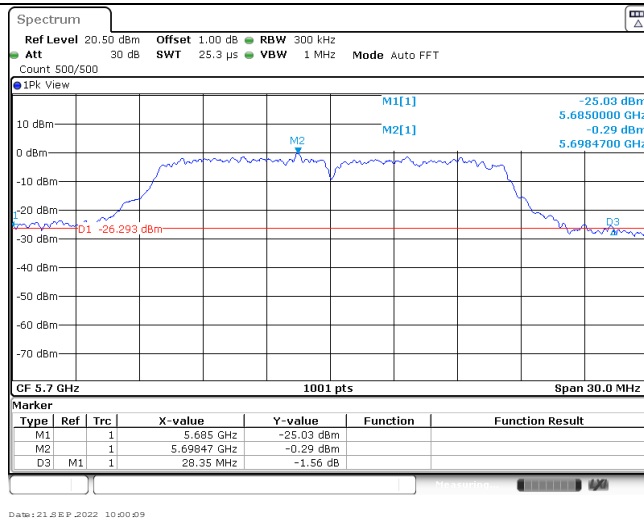
Band III

802.11n (HT20)

CH_LCH_MCH_H

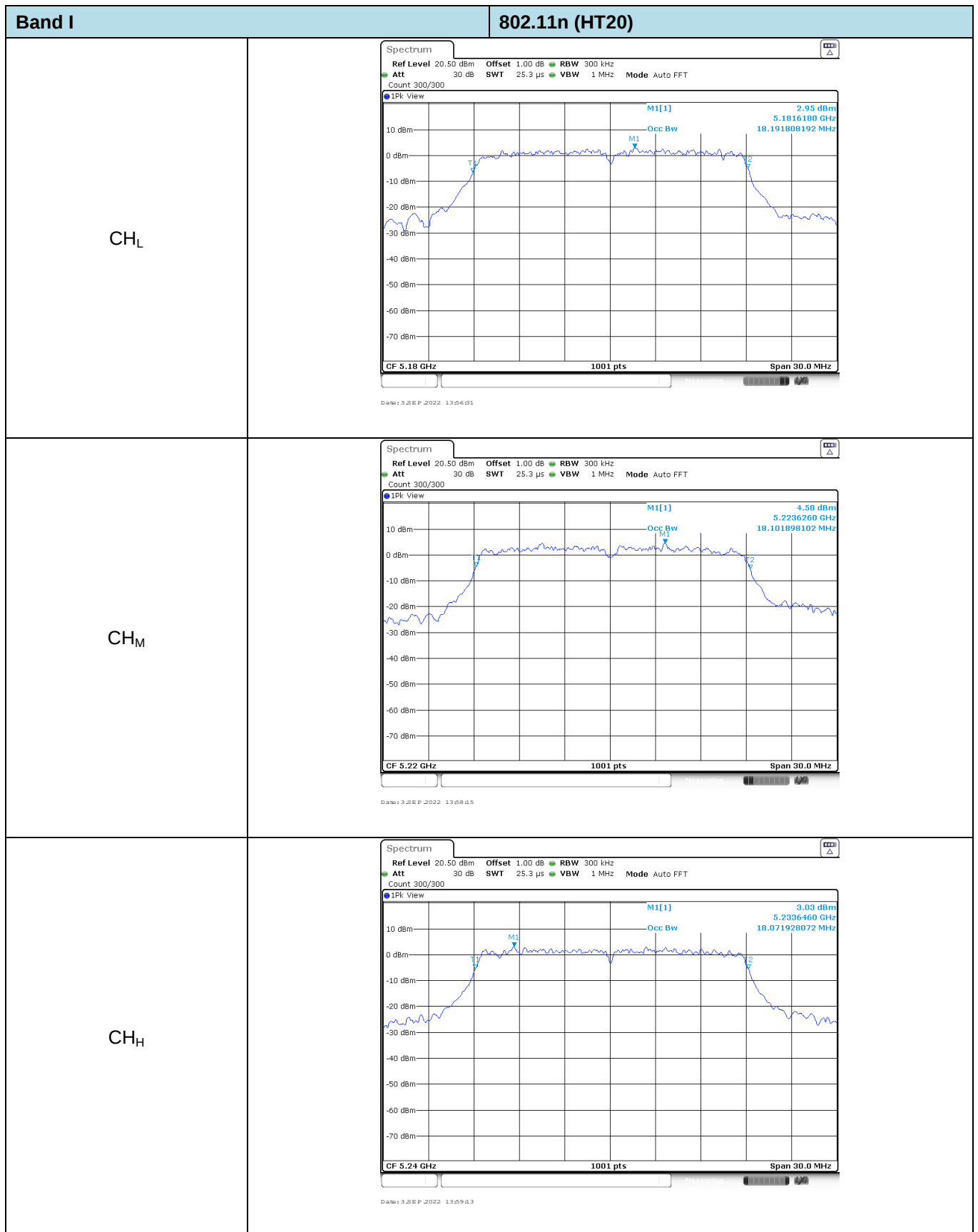
Band III

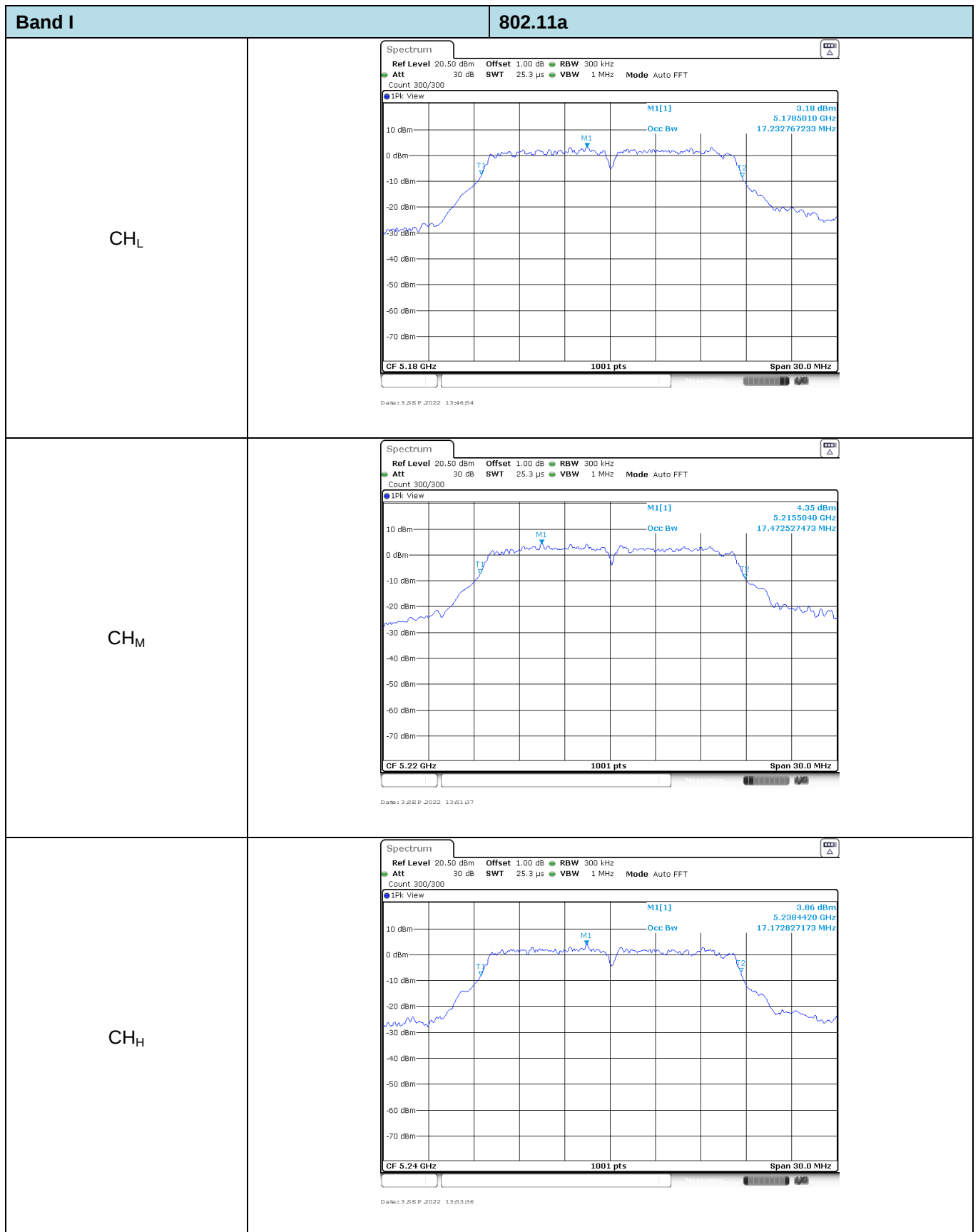
802.11a

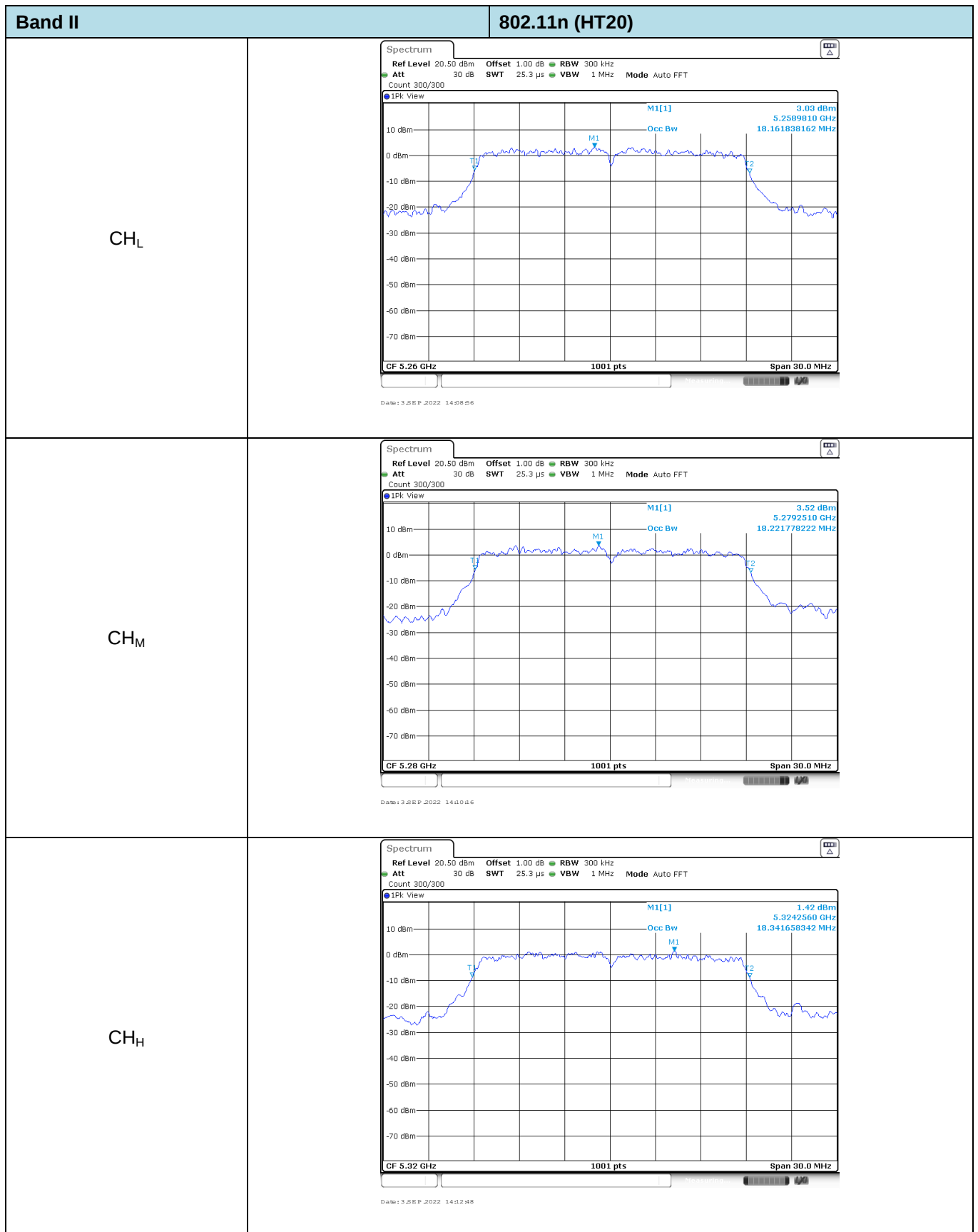
CH_LCH_MCH_H

Appendix D: 99% Occupy bandwidth

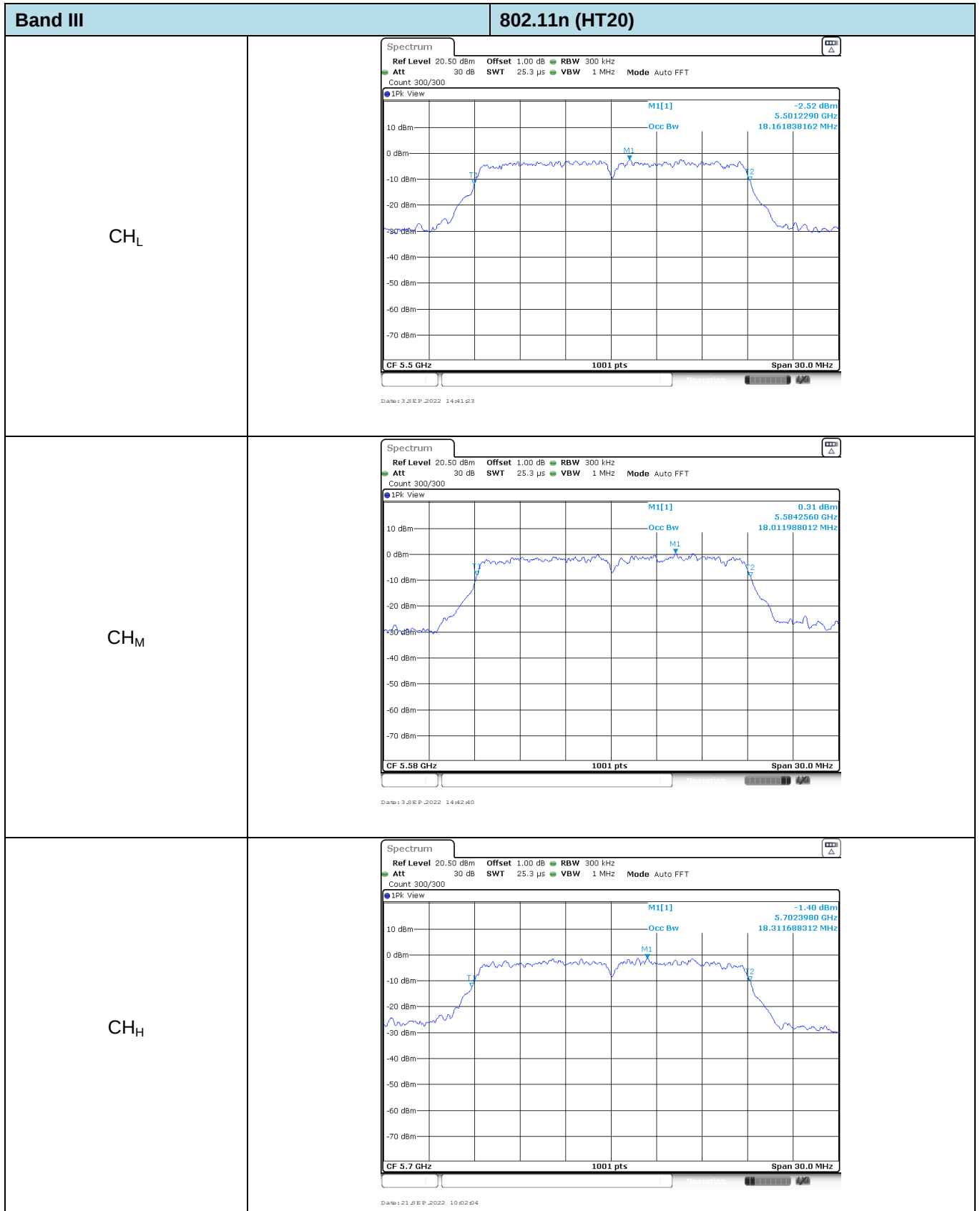
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11n	CH _L	18.19	Pass
			CH _M	18.10	
			CH _H	18.07	
		802.11a	CH _L	17.23	Pass
			CH _M	17.47	
			CH _H	17.17	
II	20	802.11n	CH _L	18.16	Pass
			CH _M	18.22	
			CH _H	18.34	
		802.11a	CH _L	17.29	Pass
			CH _M	17.08	
			CH _H	17.32	
III	20	802.11n	CH _L	18.16	Pass
			CH _M	18.01	
			CH _H	18.31	
		802.11a	CH _L	16.99	Pass
			CH _M	17.05	
			CH _H	17.41	
IV	20	802.11n	CH _L	18.49	Pass
			CH _M	18.64	
			CH _H	18.79	
		802.11a	CH _L	18.34	Pass
			CH _M	18.01	
			CH _H	17.62	

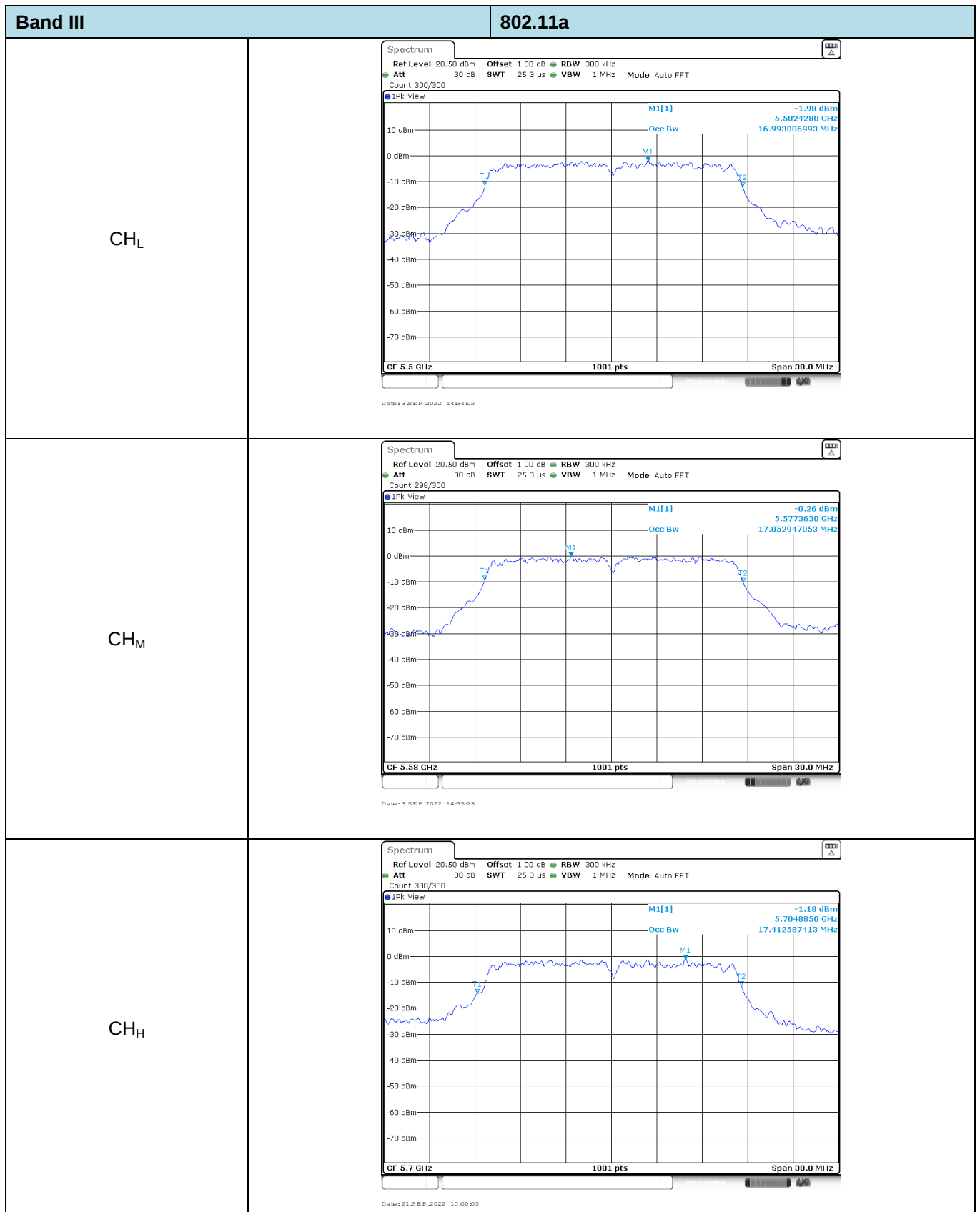






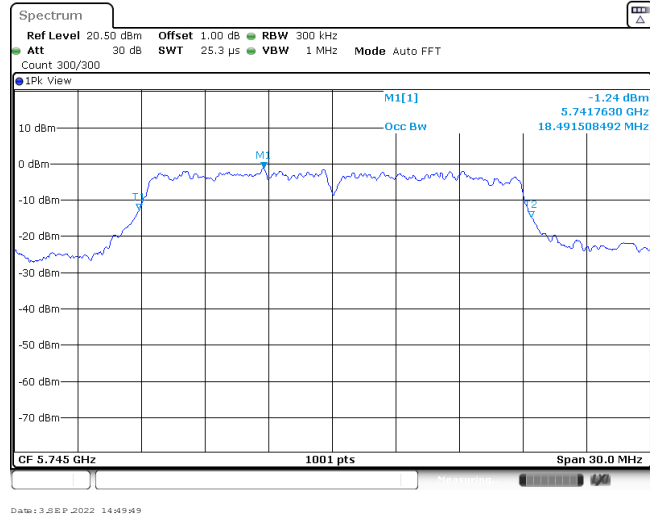
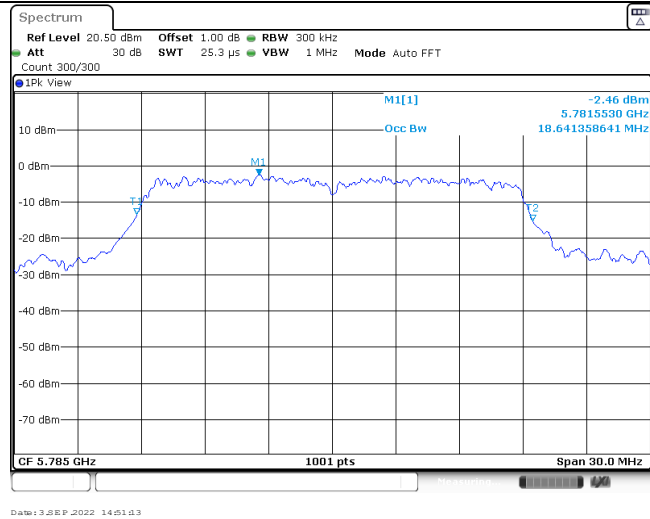
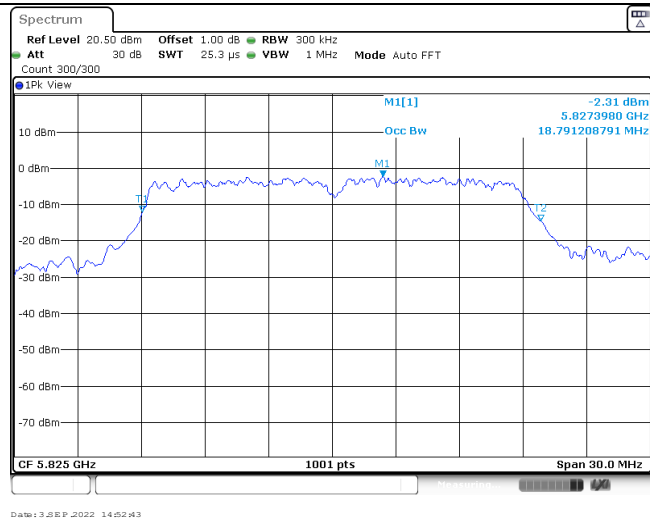
Band II		802.11a
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 3.67 dBm 5.2573930 GHz 17.292707293 MHz Occ Bw T1 M1 T2 CF 5.26 GHz 1001 pts Span 30.0 MHz Date: 3 SEP 2022 14:02:59	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 2.91 dBm 5.2780220 GHz 17.082917083 MHz Occ Bw T1 M1 T2 CF 5.28 GHz 1001 pts Span 30.0 MHz Date: 3 SEP 2022 14:04:18	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 1.31 dBm 5.3179920 GHz 17.322677323 MHz Occ Bw T1 M1 T2 CF 5.32 GHz 1001 pts Span 30.0 MHz Date: 3 SEP 2022 14:06:22	

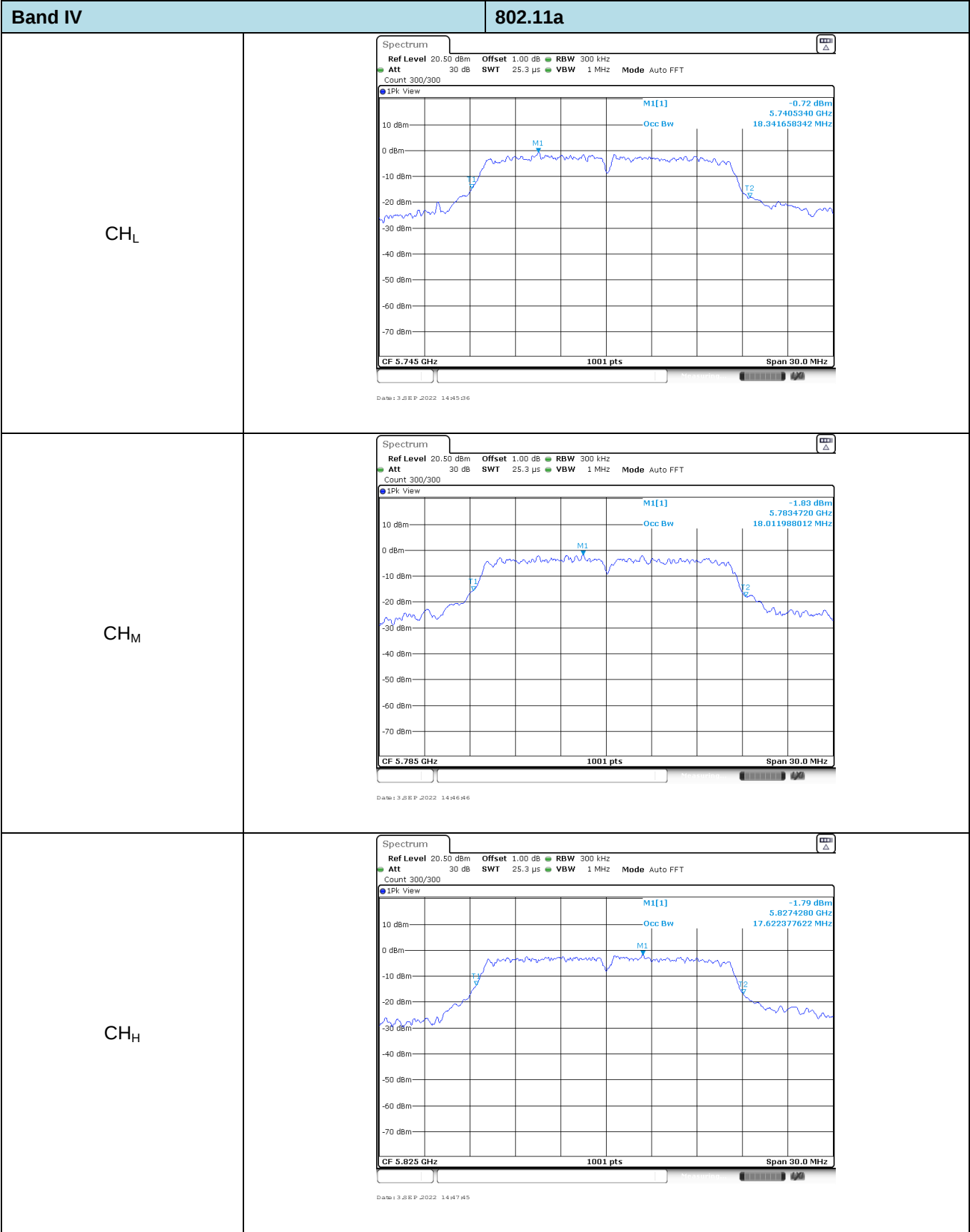




Band IV

802.11n (HT20)

CH_LCH_MCH_H

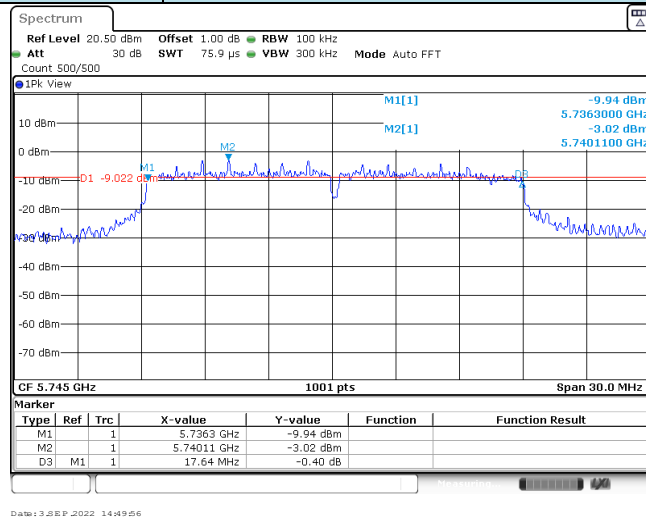
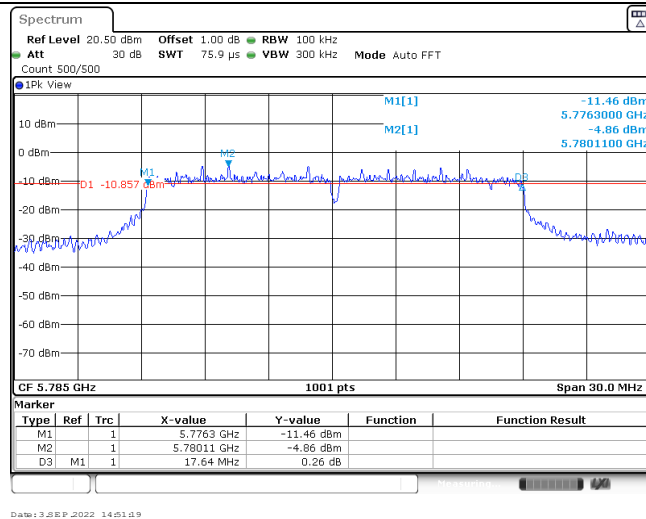
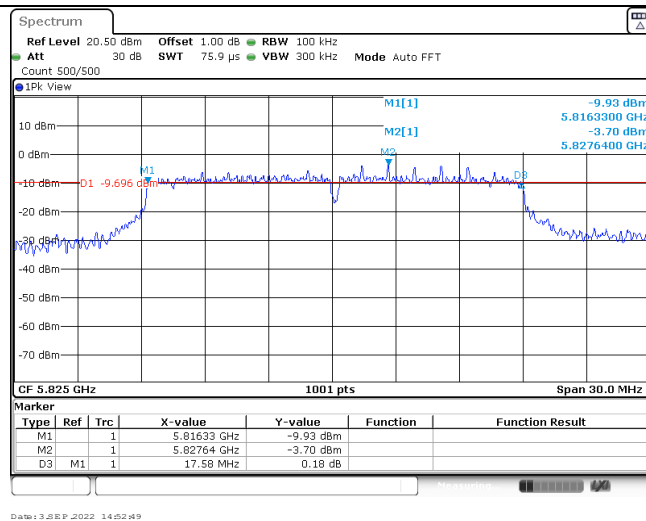


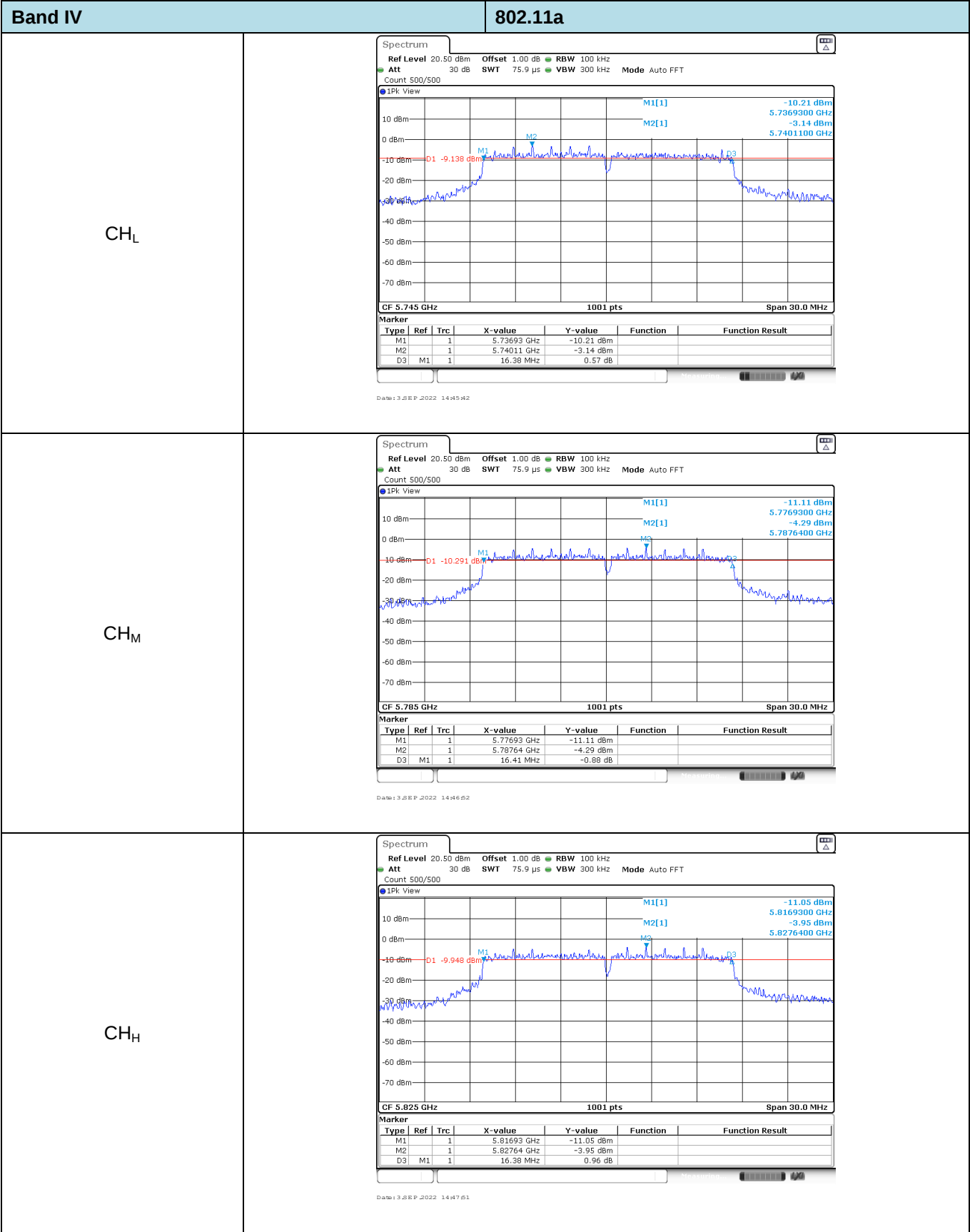
Appendix E: 6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11n	CH _L	17.64	Pass
			CH _M	17.64	
			CH _H	17.58	
		802.11a	CH _L	16.38	Pass
			CH _M	16.41	
			CH _H	16.38	

Band IV

802.11n (HT20)

CH_LCH_MCH_H



Appendix F: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	15900.00	3.07	PASS
T _N	V _N	15900.00	3.07	PASS
T _N	V _H	15900.00	3.07	PASS

Band: II			Test Frequency: 5260.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	11790.00	2.24	PASS
T _N	V _N	11790.00	2.24	PASS
T _N	V _H	11790.00	2.24	PASS

Band: III			Test Frequency: 5500.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	12390.00	2.25	PASS
T _N	V _N	12290.00	2.25	PASS
T _N	V _H	12390.00	2.25	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	12990.00	2.26	PASS
T _N	V _N	12990.00	2.26	PASS
T _N	V _H	12990.00	2.26	PASS

Temperature VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	15900.00	3.07	PASS
V _N	-10	15900.00	3.07	PASS
V _N	0	15900.00	3.07	PASS
V _N	10	15900.00	3.07	PASS
V _N	20	15900.00	3.07	PASS
V _N	30	15900.00	3.07	PASS
V _N	40	15900.00	3.07	PASS
V _N	50	15900.00	3.07	PASS

Band: II			Test Frequency: 5260.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	11790.00	2.24	PASS
V _N	-10	11790.00	2.24	PASS
V _N	0	11790.00	2.24	PASS
V _N	10	11790.00	2.24	PASS
V _N	20	11790.00	2.24	PASS
V _N	30	11790.00	2.24	PASS
V _N	40	11790.00	2.24	PASS
V _N	50	11790.00	2.24	PASS

Band: III			Test Frequency: 5500.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	12390.00	2.25	PASS
V _N	-10	12290.00	2.25	PASS
V _N	0	12390.00	2.25	PASS
V _N	10	12390.00	2.25	PASS
V _N	20	12290.00	2.25	PASS
V _N	30	12390.00	2.25	PASS
V _N	40	12390.00	2.25	PASS
V _N	50	12290.00	2.25	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	12990.00	2.26	PASS
V _N	-10	12990.00	2.26	PASS
V _N	0	12990.00	2.26	PASS
V _N	10	12990.00	2.26	PASS
V _N	20	12990.00	2.26	PASS
V _N	30	12990.00	2.26	PASS
V _N	40	12990.00	2.26	PASS
V _N	50	12990.00	2.26	PASS

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