

APPENDIX REPORT

Project No.	SHT2110107404EW	Radio Specification	WIFI 5G
Test sample No.	YPHT21080438003	Model No.	VS16340
Start test date	2021-09-07	Finish date	2021-09-15
Temperature	25.9℃	Humidity	34%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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	Band Edge	PASS
G	Frequency stability	PASS

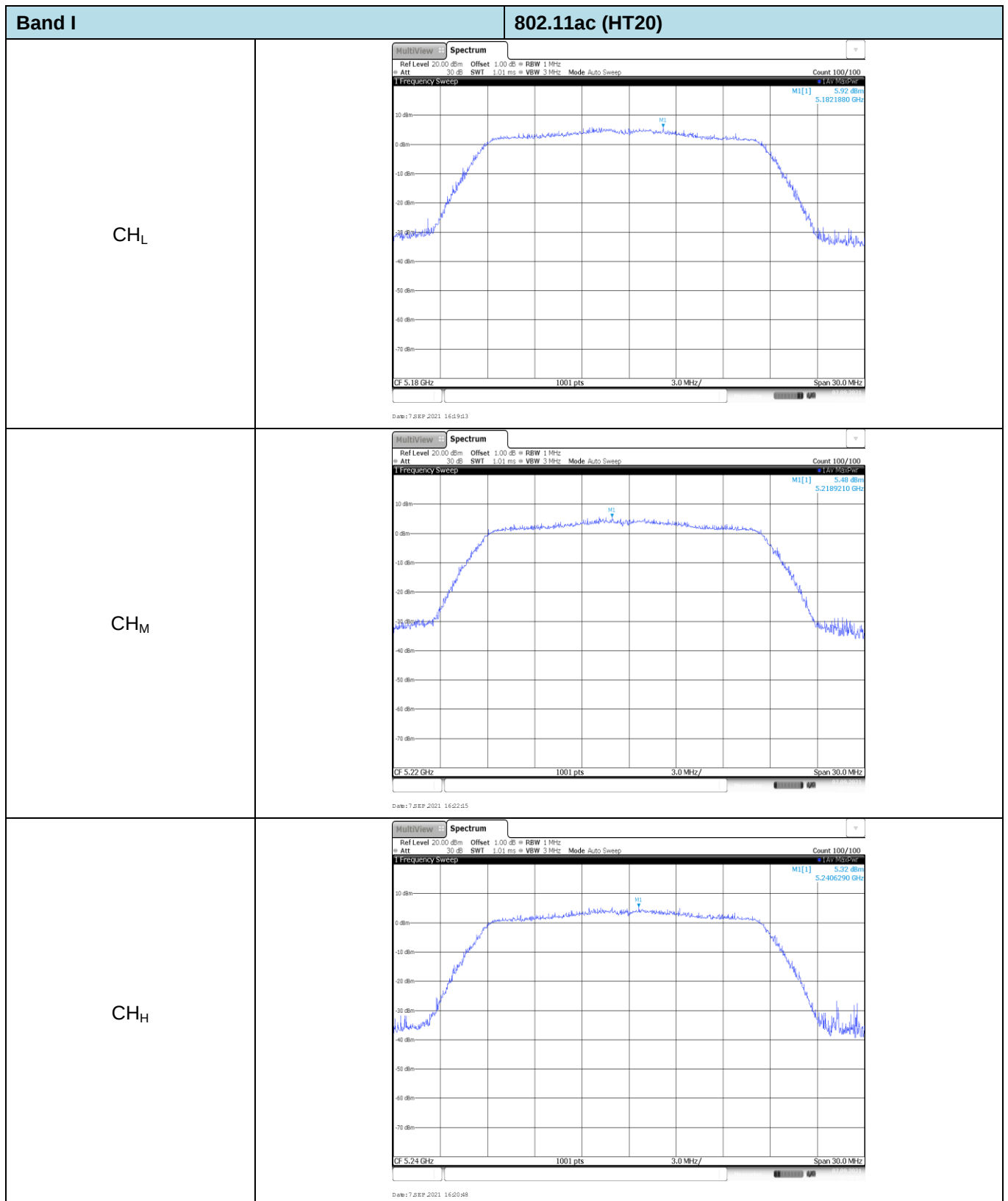
Appendix A: Maximum Conducted Output Power

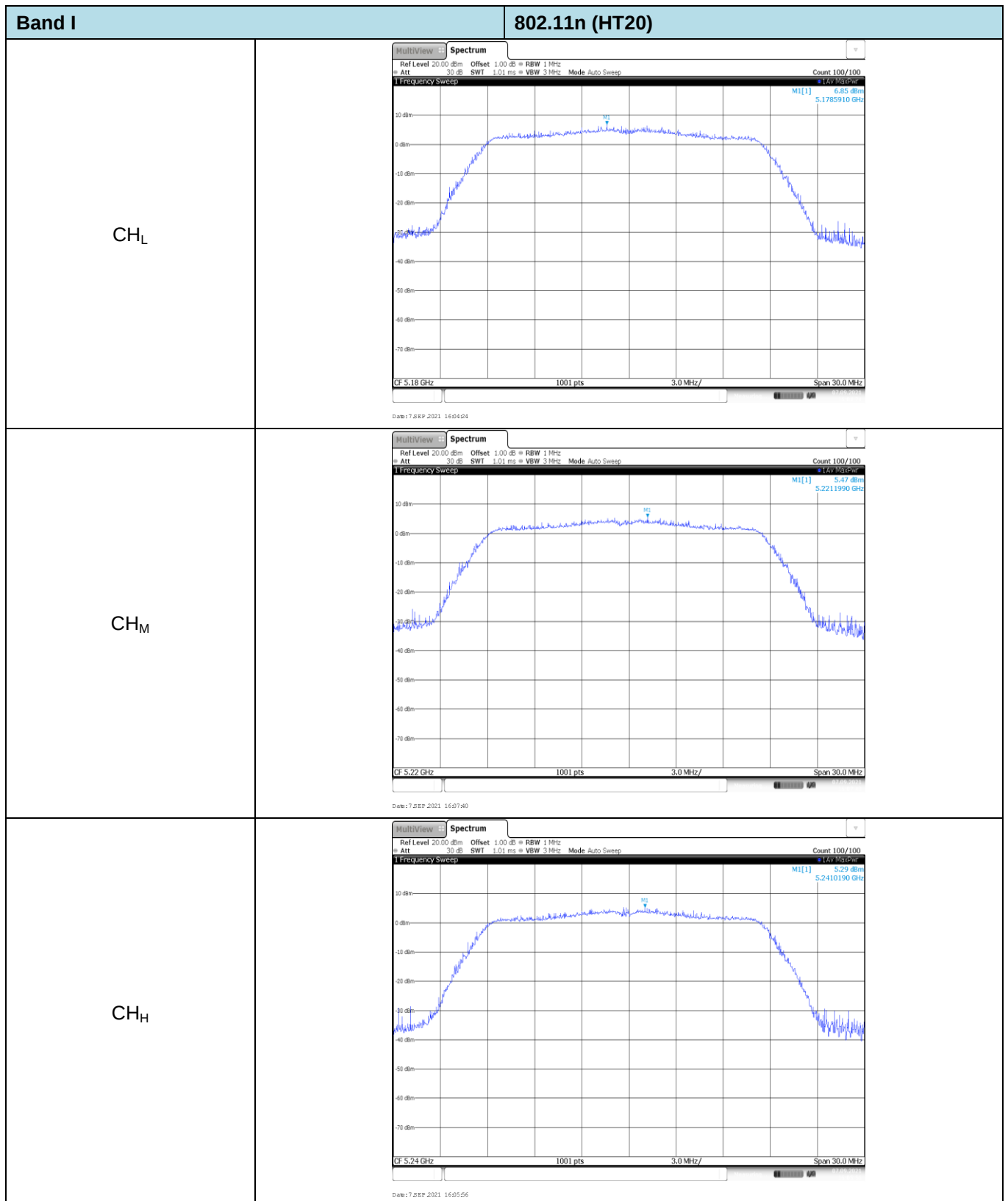
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	14.99	96.77	0.14	15.13	24.00	Pass
			CH _M	14.54	96.77	0.14	14.68		
			CH _H	14.78	96.67	0.15	14.93		
		802.11n	CH _L	14.94	96.84	0.14	15.08	24.00	Pass
			CH _M	14.52	96.84	0.14	14.66		
			CH _H	14.75	96.84	0.14	14.89		
		802.11a	CH _L	15.31	96.95	0.13	15.44	24.00	Pass
			CH _M	14.65	96.95	0.13	14.78		
			CH _H	14.86	96.95	0.13	14.99		
	40	802.11ac	CH _L	14.02	93.86	0.28	14.30	24.00	Pass
			CH _H	13.67	93.86	0.28	13.95		
		802.11n	CH _L	14.18	93.88	0.27	14.45	24.00	Pass
			CH _H	14.04	93.88	0.27	14.31		
	80	802.11ac	CH _M	13.64	88.12	0.55	14.19	24.00	Pass
IV	20	802.11ac	CH _L	14.27	96.77	0.14	14.41	30.00	Pass
			CH _M	13.86	96.77	0.14	14.00		
			CH _H	13.98	96.77	0.14	14.12		
		802.11n	CH _L	14.91	96.75	0.14	15.05	30.00	Pass
			CH _M	14.53	96.75	0.14	14.67		
			CH _H	14.94	96.75	0.14	15.08		
		802.11a	CH _L	14.02	96.95	0.13	14.15	30.00	Pass
			CH _M	13.91	97.03	0.13	14.04		
			CH _H	14.13	96.95	0.13	14.26		
	40	802.11ac	CH _L	13.83	93.86	0.28	14.11	30.00	Pass
			CH _H	13.96	93.86	0.28	14.24		
		802.11n	CH _L	13.76	93.88	0.27	14.03	30.00	Pass
			CH _H	14.03	93.88	0.27	14.30		
	80	802.11ac	CH _M	13.65	88.30	0.54	14.19	30.00	Pass

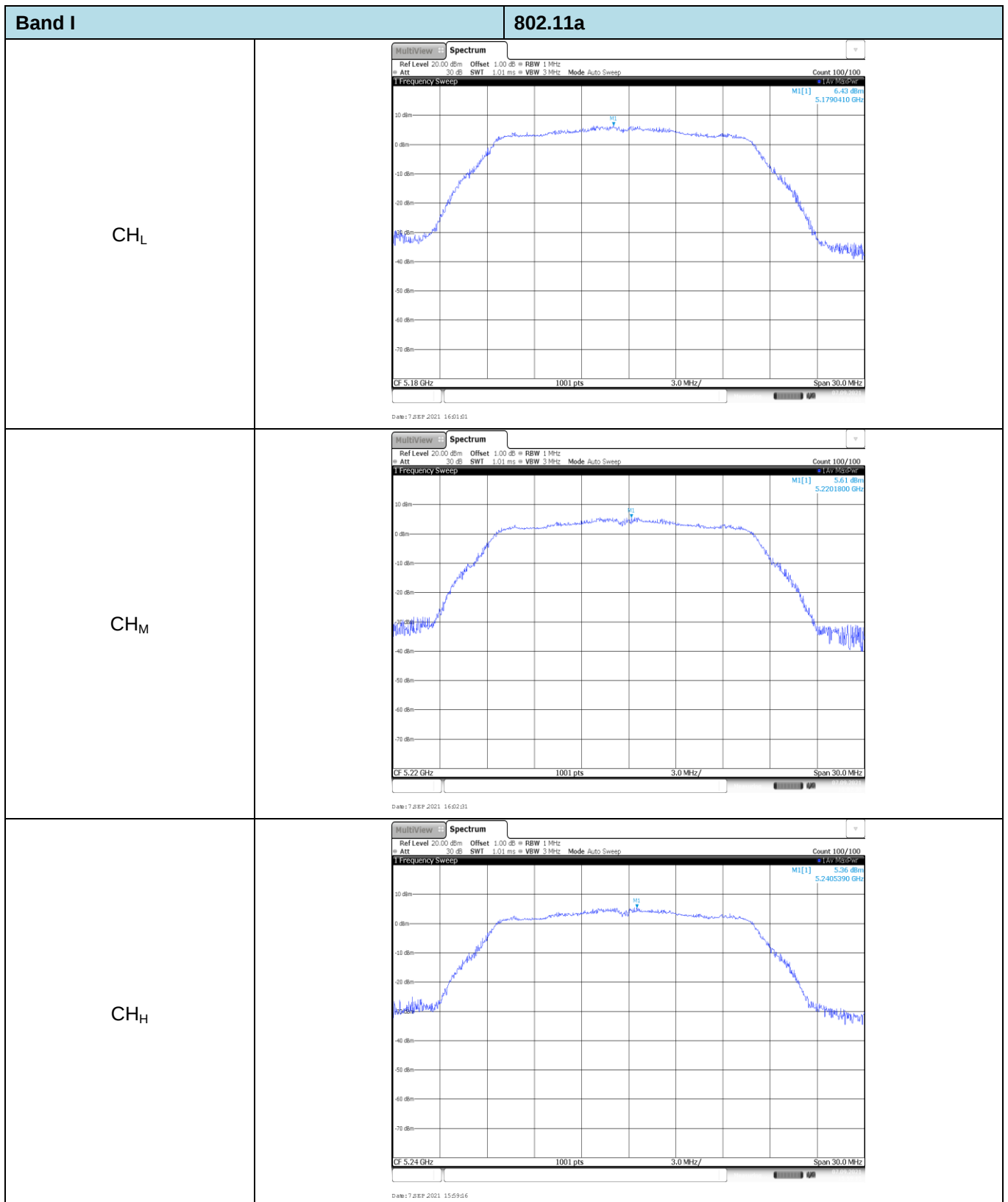
NOTE: duty cycle factor = 10LOG(1/ duty cycle)

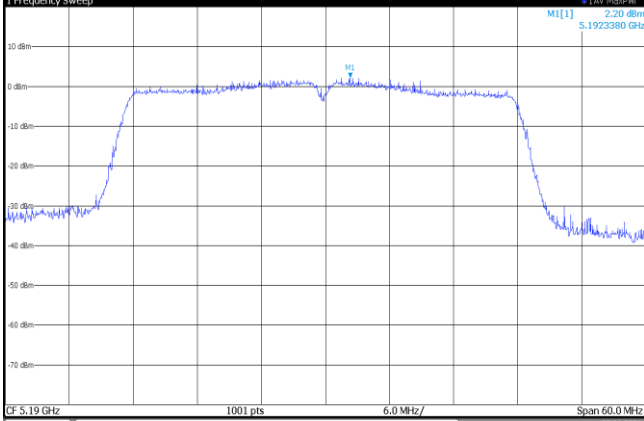
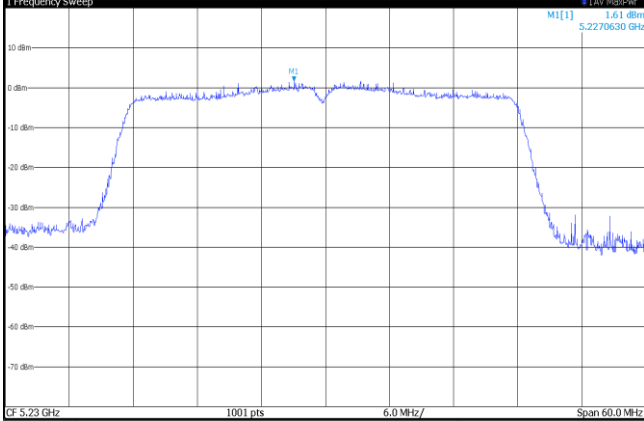
Appendix B: Maximum Power Spectral Density

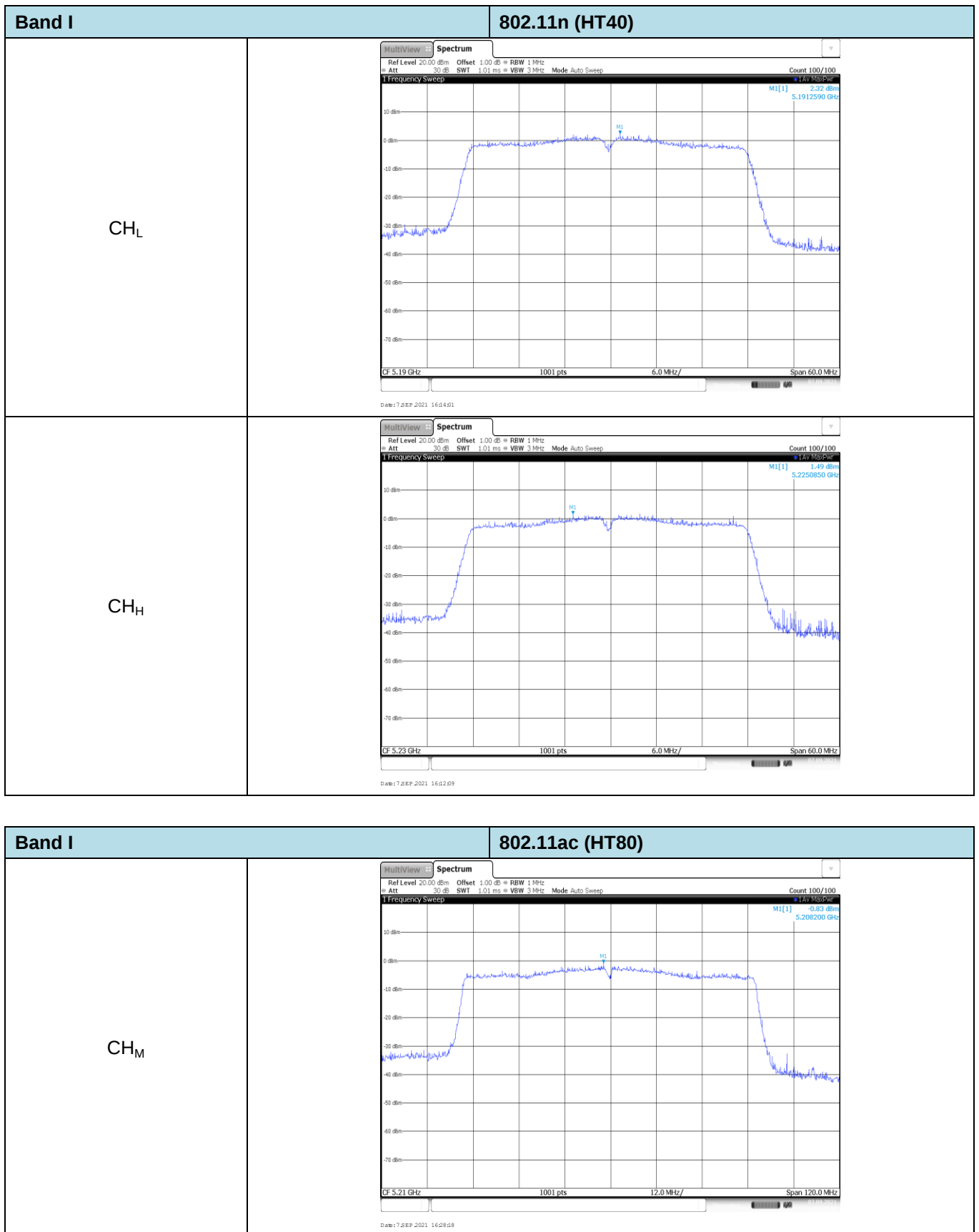
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	5.92	96.77	0.14	6.06	11.00	Pass
			CH _M	5.48	96.77	0.14	5.62		
			CH _H	5.32	96.67	0.15	5.47		
		802.11n	CH _L	6.85	96.84	0.14	6.99	11.00	Pass
			CH _M	5.47	96.84	0.14	5.61		
			CH _H	5.29	96.84	0.14	5.43		
		802.11a	CH _L	6.43	96.95	0.13	6.56	11.00	Pass
			CH _M	5.61	96.95	0.13	5.74		
			CH _H	5.36	96.95	0.13	5.49		
	40	802.11ac	CH _L	2.20	93.86	0.28	2.48	11.00	Pass
			CH _H	1.61	93.86	0.28	1.89		
		802.11n	CH _L	2.32	93.88	0.27	2.59	11.00	Pass
			CH _H	1.49	93.88	0.27	1.76		
	80	802.11ac	CH _M	-0.83	88.12	0.55	-0.28	11.00	Pass
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Result
IV	20	802.11ac	CH _L	3.47	96.77	0.14	3.61	30.00	Pass
			CH _M	2.53	96.77	0.14	2.67		
			CH _H	1.88	96.77	0.14	2.02		
		802.11n	CH _L	4.69	96.75	0.14	4.83	30.00	Pass
			CH _M	3.43	96.75	0.14	3.57		
			CH _H	3.08	96.75	0.14	3.22		
		802.11a	CH _L	3.84	96.95	0.13	3.97	30.00	Pass
			CH _M	2.89	97.03	0.13	3.02		
			CH _H	2.92	96.95	0.13	3.05		
	40	802.11ac	CH _L	-0.05	93.86	0.28	0.23	30.00	Pass
			CH _H	-0.16	93.86	0.28	0.12		
		802.11n	CH _L	0.26	93.88	0.27	0.53	30.00	Pass
			CH _H	-0.54	93.88	0.27	-0.27		
	80	802.11ac	CH _M	-3.48	88.30	0.54	-2.94	30.00	Pass

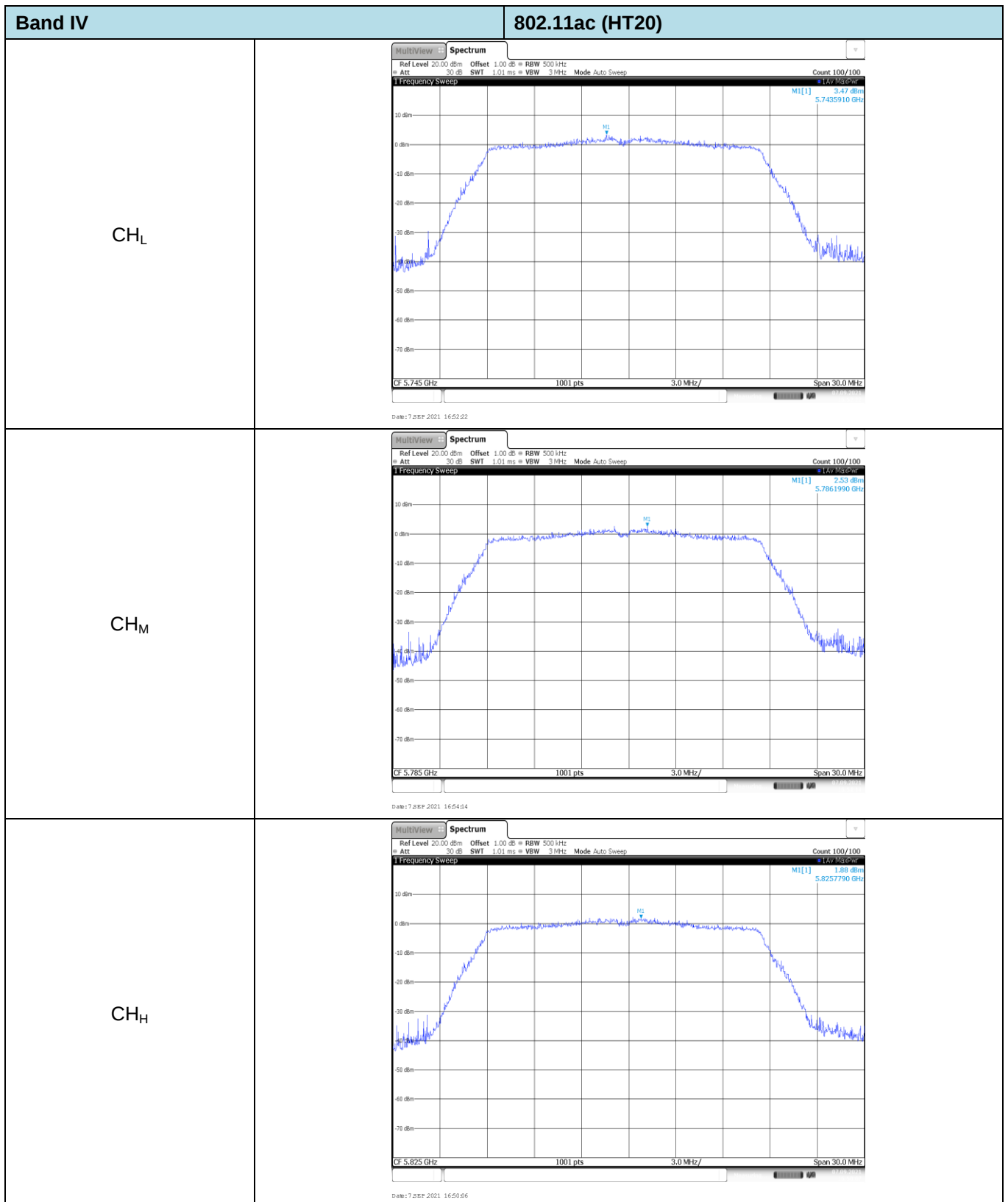


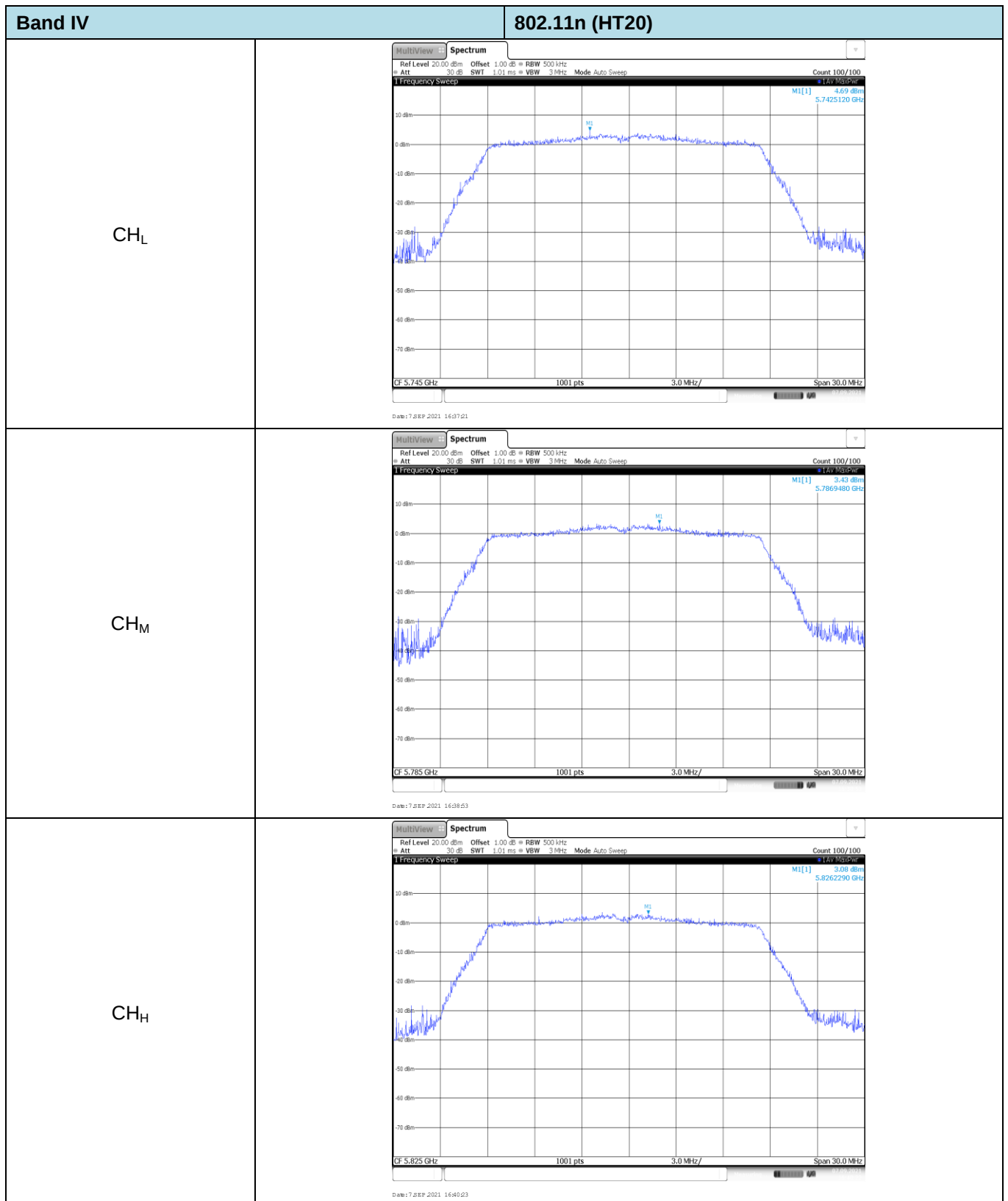


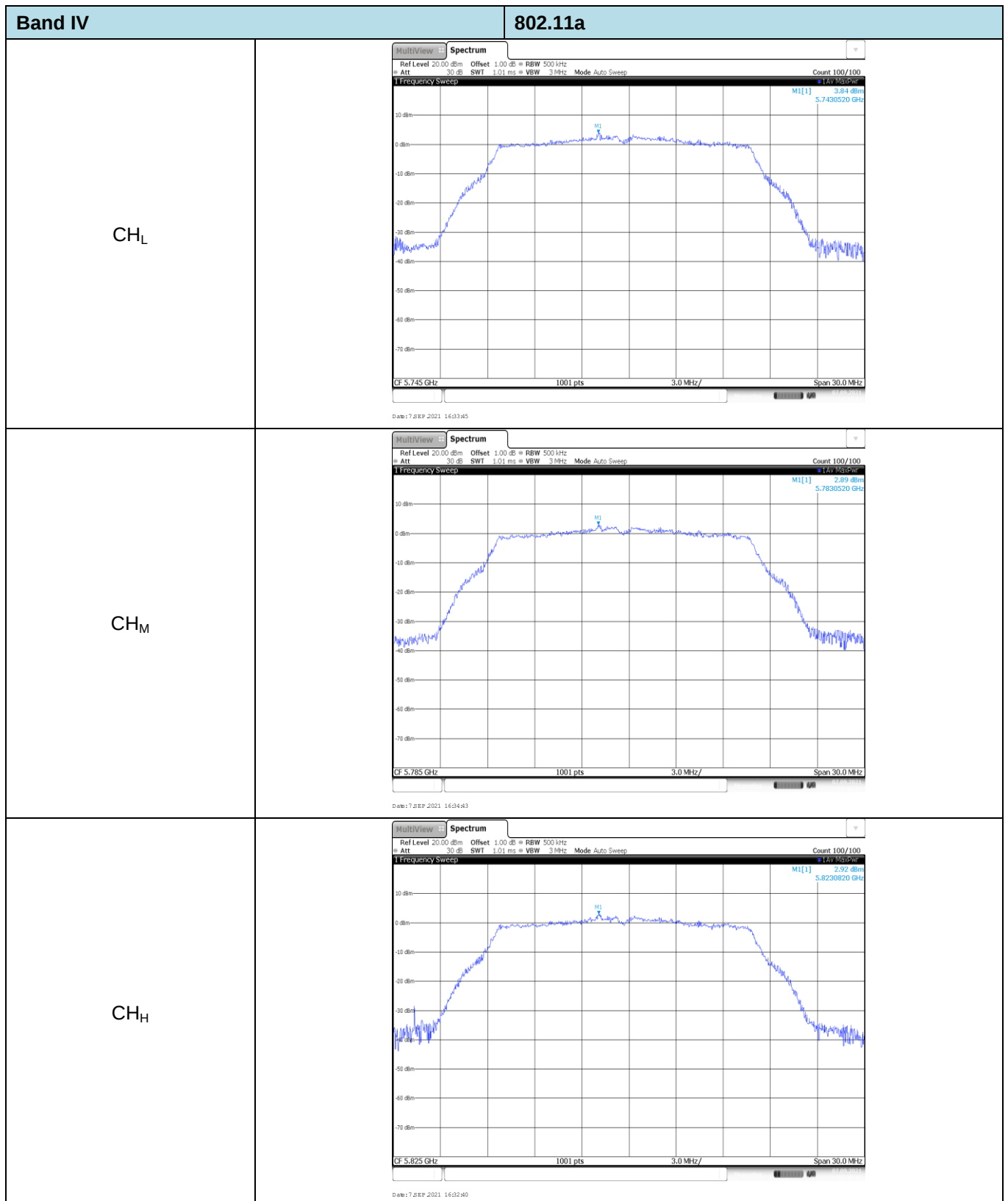


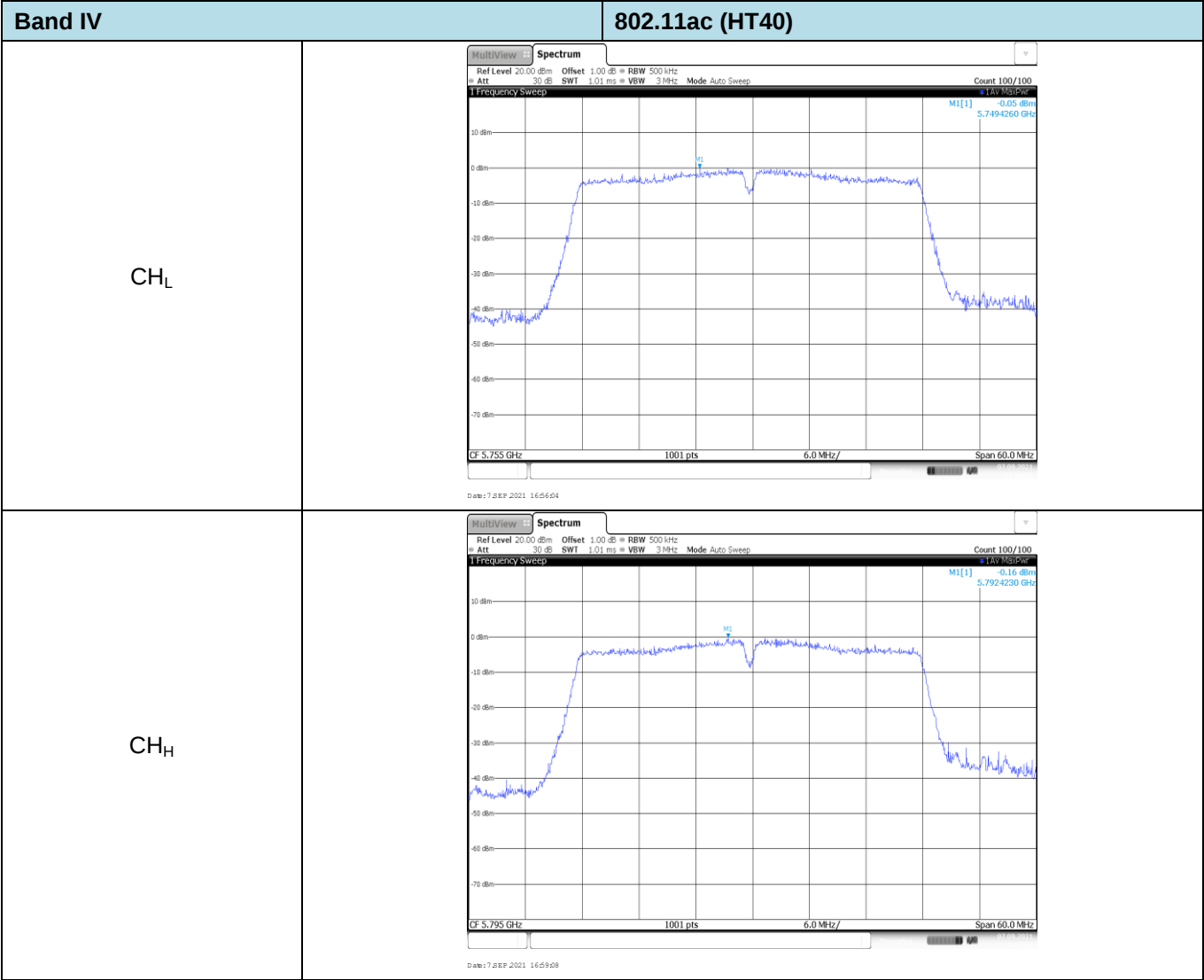
Band I		802.11ac (HT40)
CH _L	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep  CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 7 SEP 2021 16:25:55	
CH _H	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Att 30.00 Offset 1.00 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep  CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 7 SEP 2021 16:24:53	

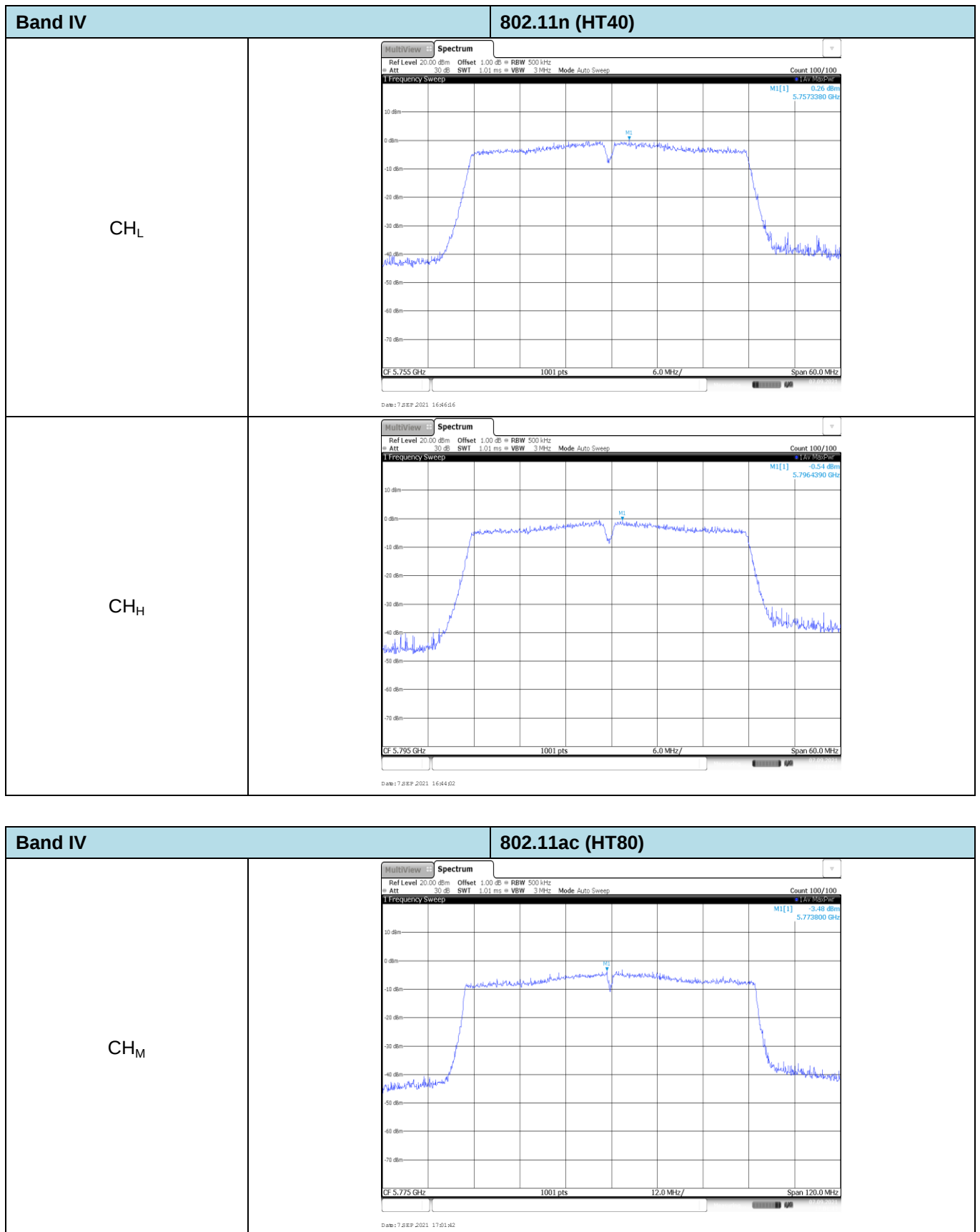






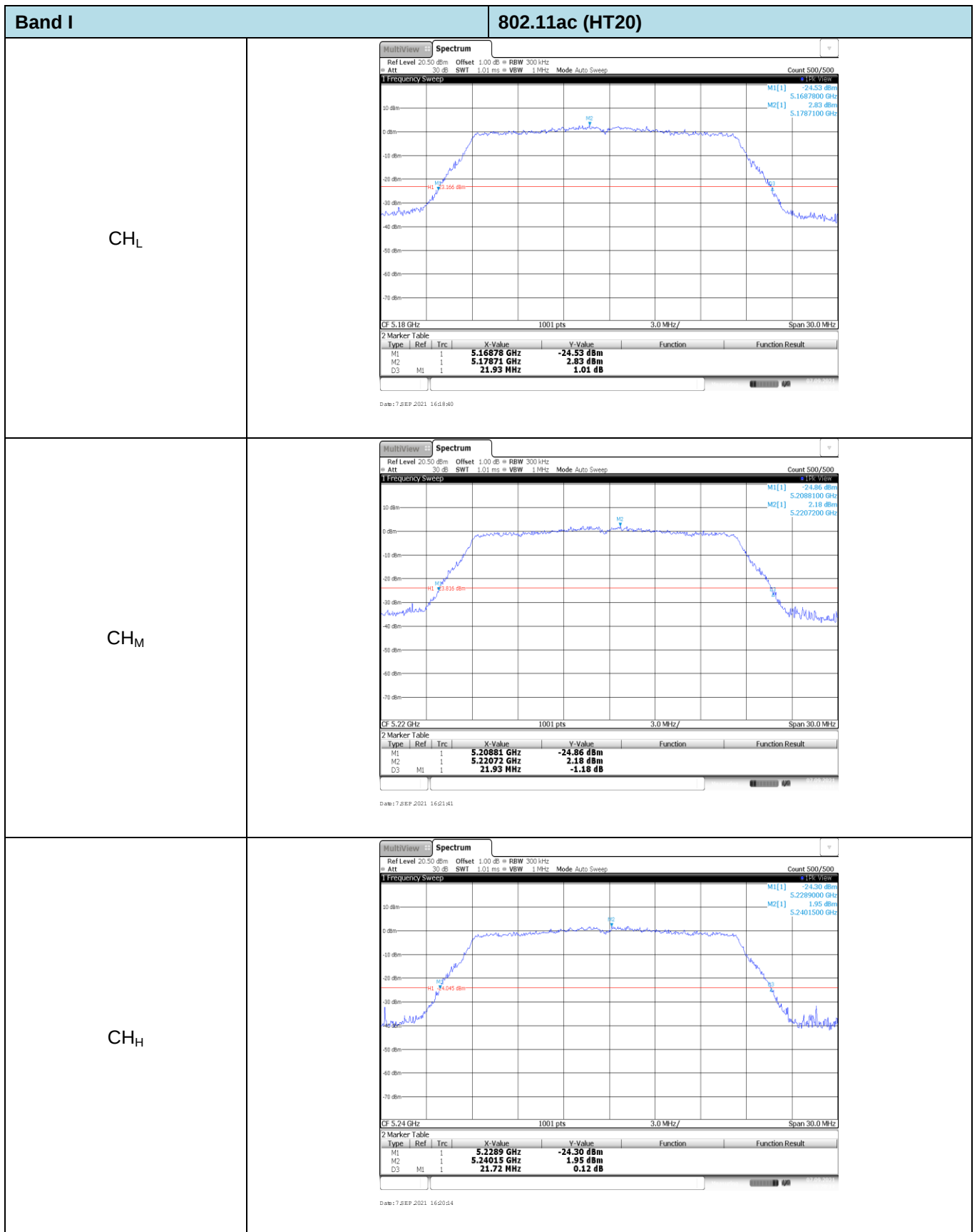


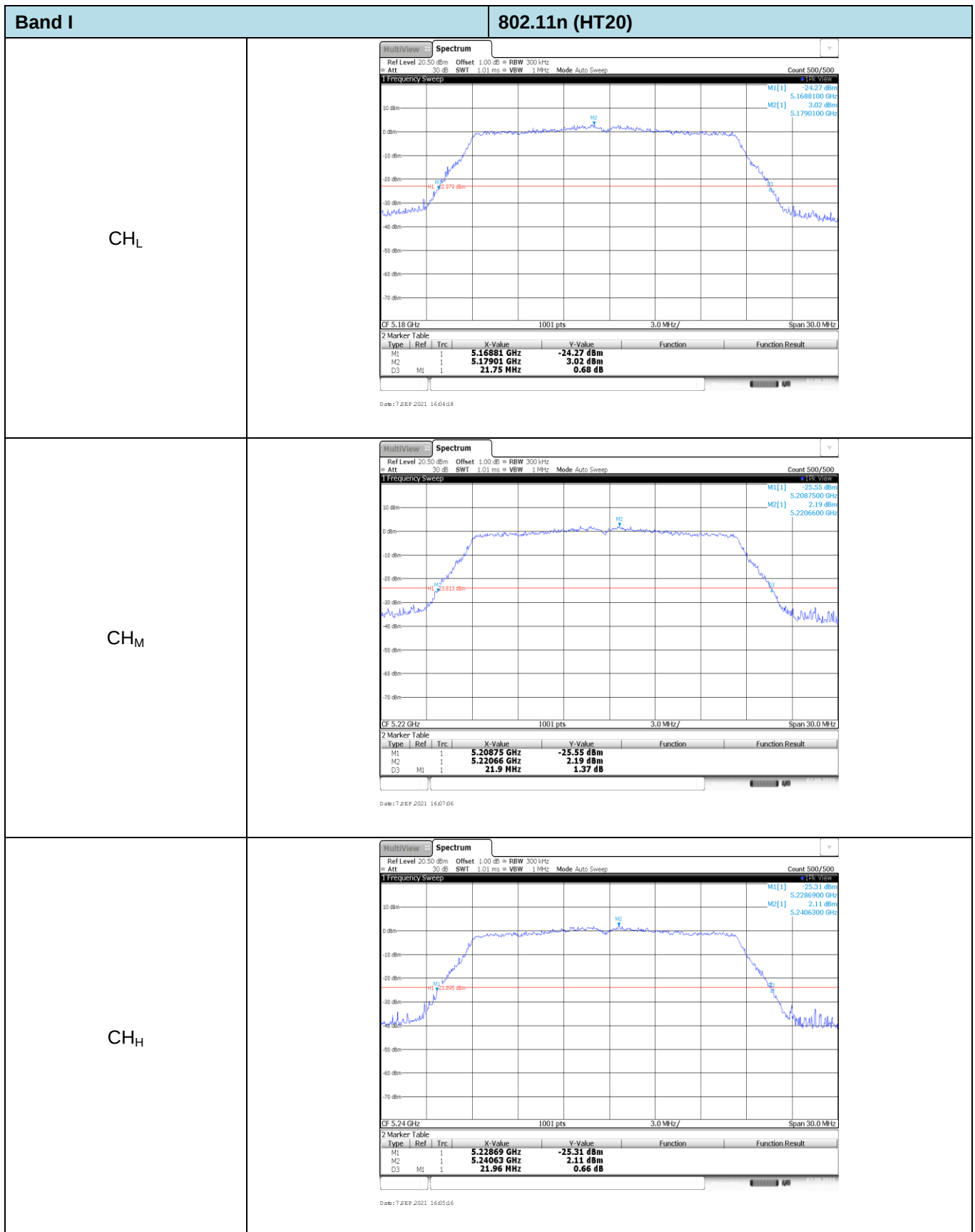




Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	21.93	Pass
			CH _M	21.93	
			CH _H	21.72	
		802.11n	CH _L	21.75	Pass
			CH _M	21.90	
			CH _H	21.96	
		802.11a	CH _L	21.39	Pass
			CH _M	21.48	
			CH _H	21.51	
	40	802.11ac	CH _L	40.08	Pass
			CH _H	40.56	
		802.11n	CH _L	40.32	Pass
			CH _H	40.14	
	80	802.11ac	CH _M	82.56	Pass

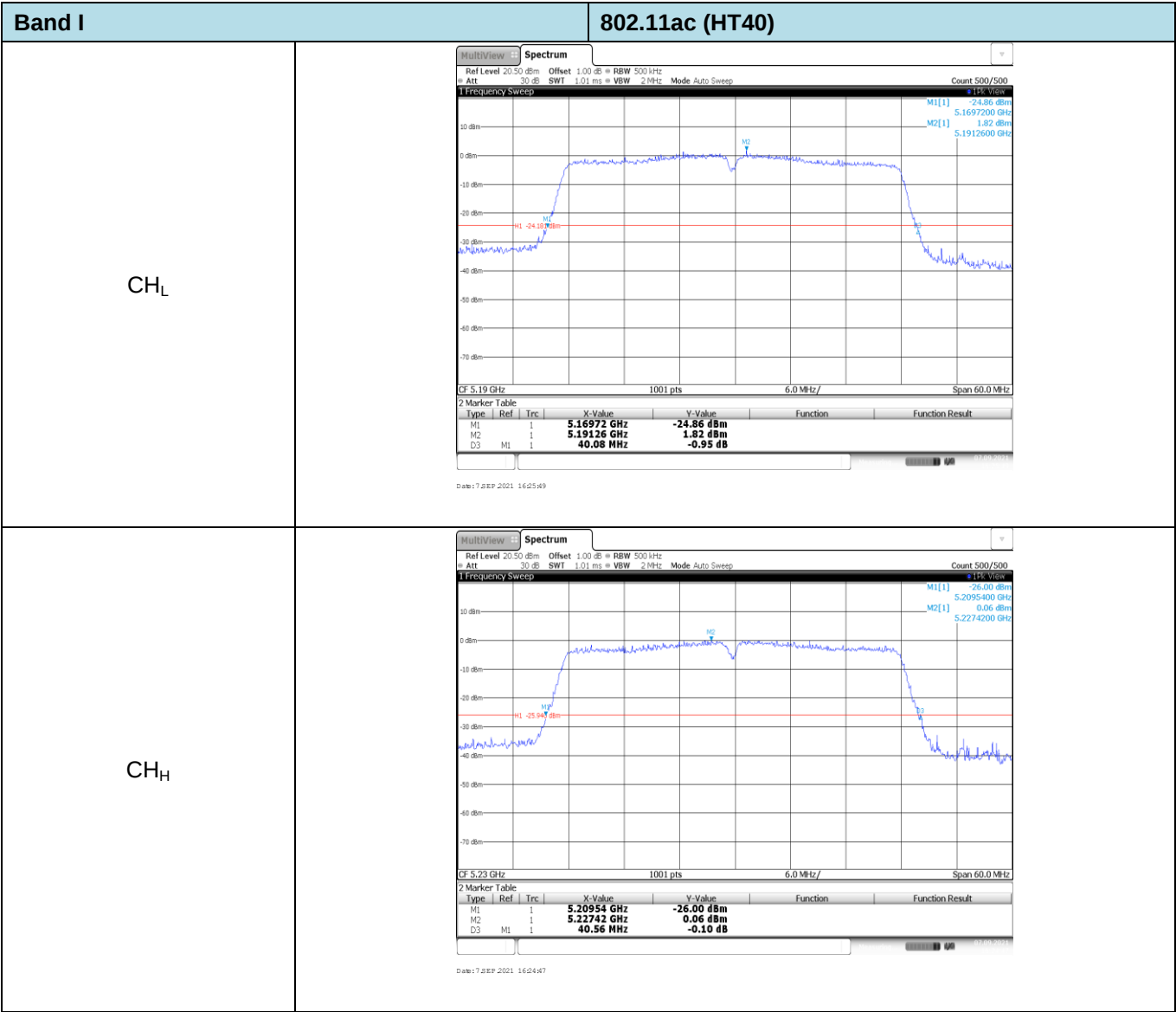




Band I		802.11a																											
CH _L	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.16896 GHz</td><td>-22.45 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17814 GHz</td><td>3.81 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.39 MHz</td><td>0.20 dB</td><td></td><td></td></tr></table> Date: 17 SEP 2021 16:00:19	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16896 GHz	-22.45 dBm			M2	1		5.17814 GHz	3.81 dBm			D3	M1	1	21.39 MHz	0.20 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.16896 GHz	-22.45 dBm																									
M2	1		5.17814 GHz	3.81 dBm																									
D3	M1	1	21.39 MHz	0.20 dB																									

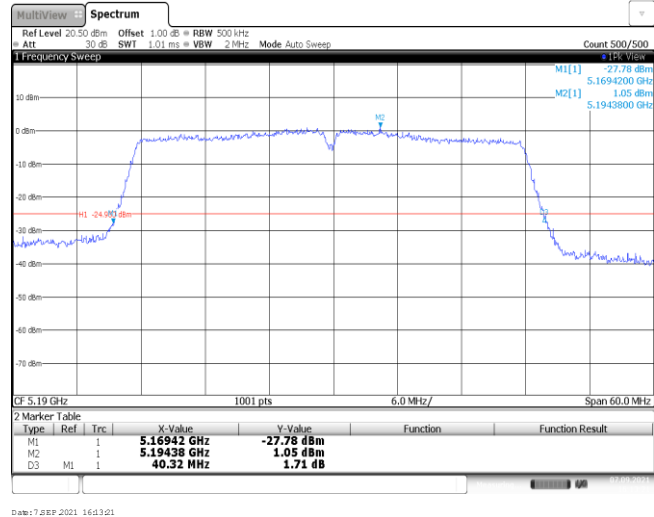
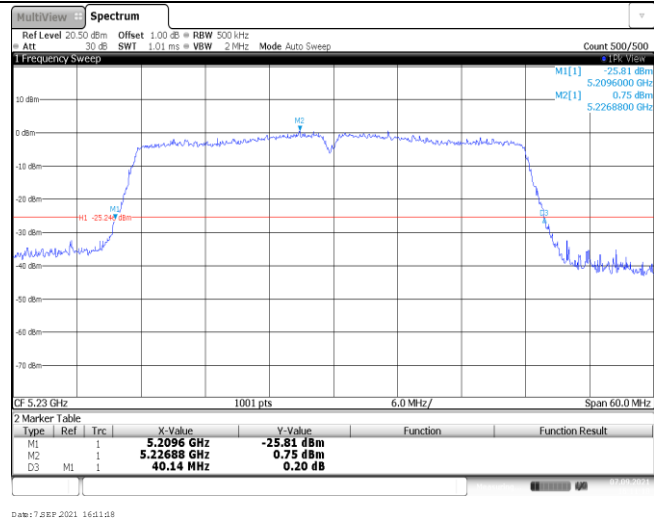
CH _M	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table <table><tr><th>Type</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>5.20899 GHz</td><td>-23.19 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.21817 GHz</td><td>2.91 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.48 MHz</td><td>-0.18 dB</td><td></td><td></td></tr></table> Date: 17 SEP 2021 16:01:07	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20899 GHz	-23.19 dBm			M2	1		5.21817 GHz	2.91 dBm			D3	M1	1	21.48 MHz	-0.18 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.20899 GHz	-23.19 dBm																									
M2	1		5.21817 GHz	2.91 dBm																									
D3	M1	1	21.48 MHz	-0.18 dB																									

CH _H	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.22902 GHz</td><td>-23.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.23811 GHz</td><td>2.70 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.51 MHz</td><td>-0.26 dB</td><td></td><td></td></tr></table> Date: 17 SEP 2021 15:58:44	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22902 GHz	-23.50 dBm			M2	1		5.23811 GHz	2.70 dBm			D3	M1	1	21.51 MHz	-0.26 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.22902 GHz	-23.50 dBm																									
M2	1		5.23811 GHz	2.70 dBm																									
D3	M1	1	21.51 MHz	-0.26 dB																									



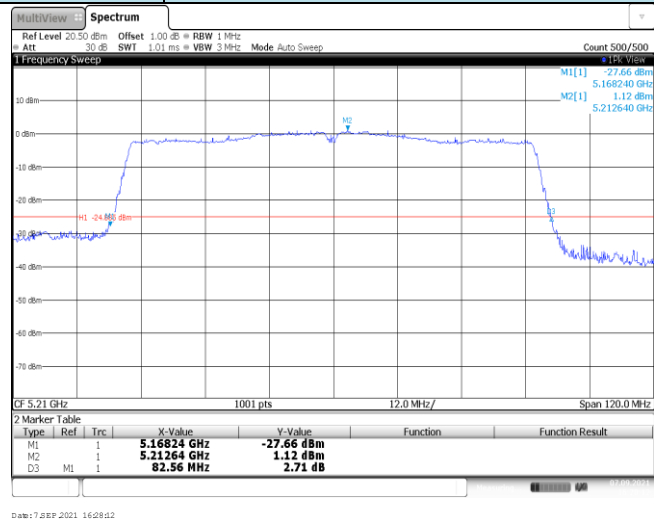
Band I

802.11n (HT40)

CH_LCH_H

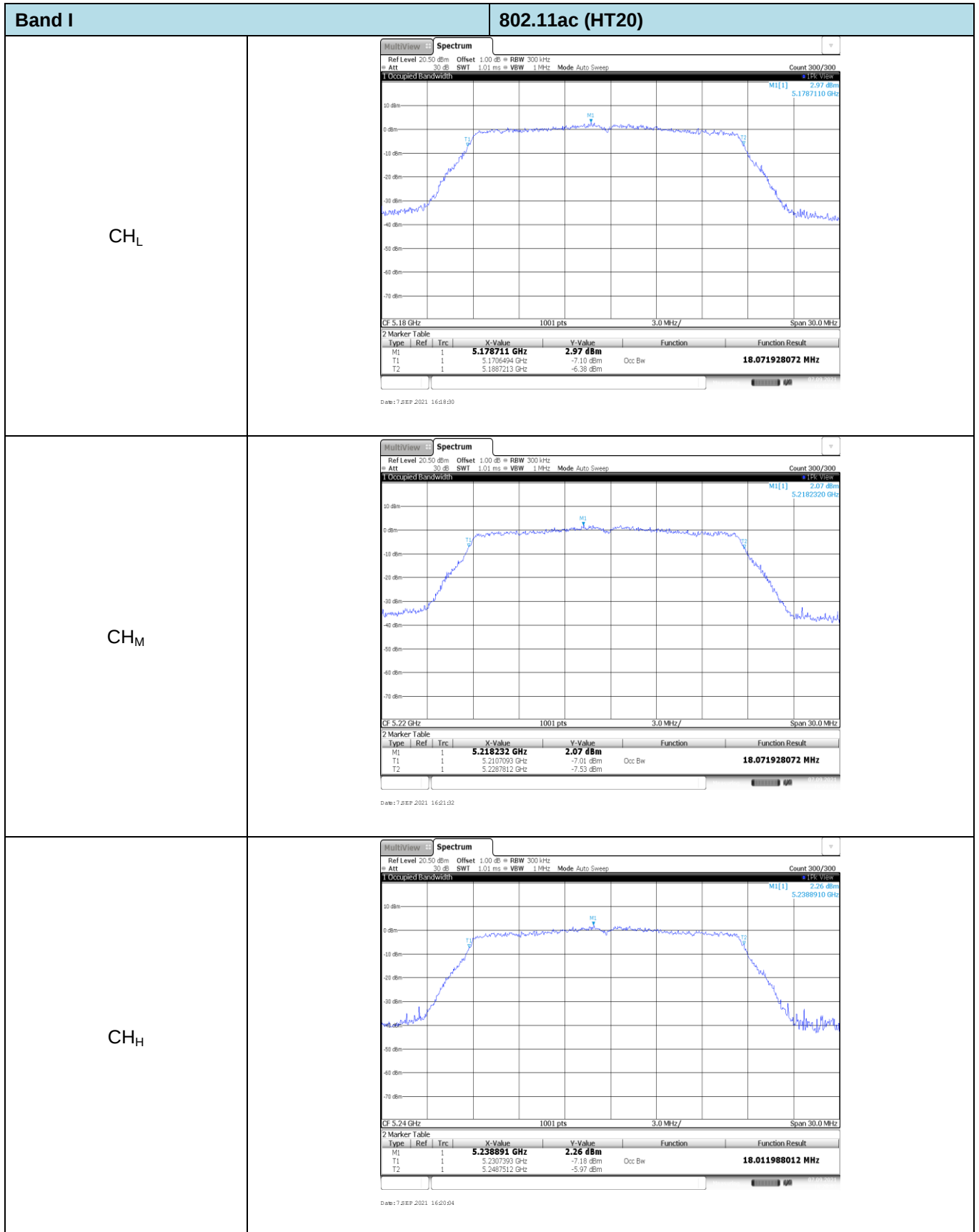
Band I

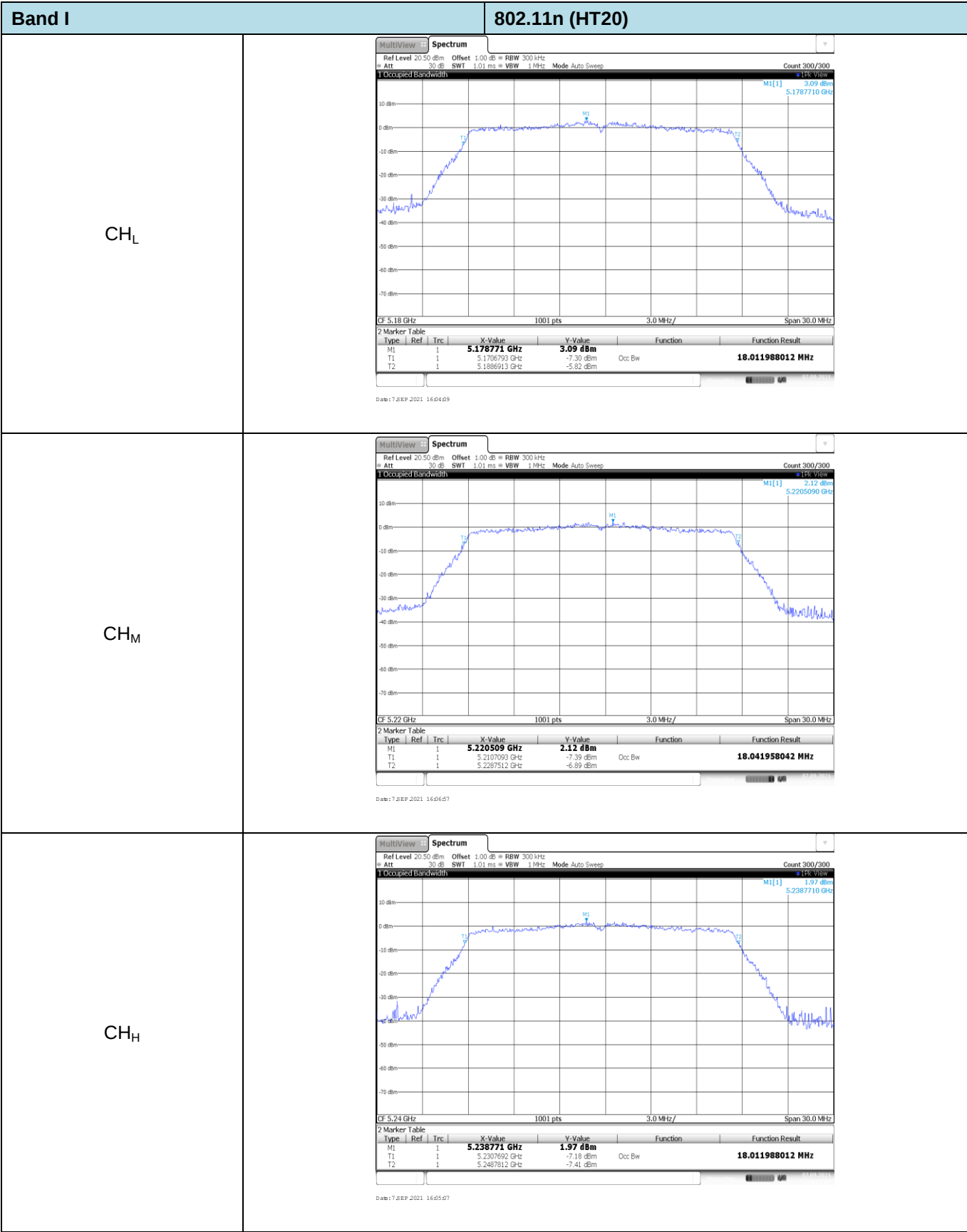
802.11ac (HT80)

CH_M

Appendix D: 99% Occupy bandwidth

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	18.07	Pass
			CH _M	18.07	
			CH _H	18.01	
		802.11n	CH _L	18.01	Pass
			CH _M	18.04	
			CH _H	18.01	
		802.11a	CH _L	16.93	Pass
			CH _M	16.93	
			CH _H	16.93	
	40	802.11ac	CH _L	36.26	Pass
			CH _H	36.32	
		802.11n	CH _L	36.38	Pass
			CH _H	36.32	
	80	802.11ac	CH _M	75.64	Pass
IV	20	802.11ac	CH _L	17.98	Pass
			CH _M	18.04	
			CH _H	18.04	
		802.11n	CH _L	18.01	Pass
			CH _M	18.10	
			CH _H	18.04	
		802.11a	CH _L	16.99	Pass
			CH _M	16.96	
			CH _H	16.96	
	40	802.11ac	CH _L	36.32	Pass
			CH _H	36.20	
		802.11n	CH _L	36.38	Pass
			CH _H	36.38	
	80	802.11ac	CH _M	75.41	Pass





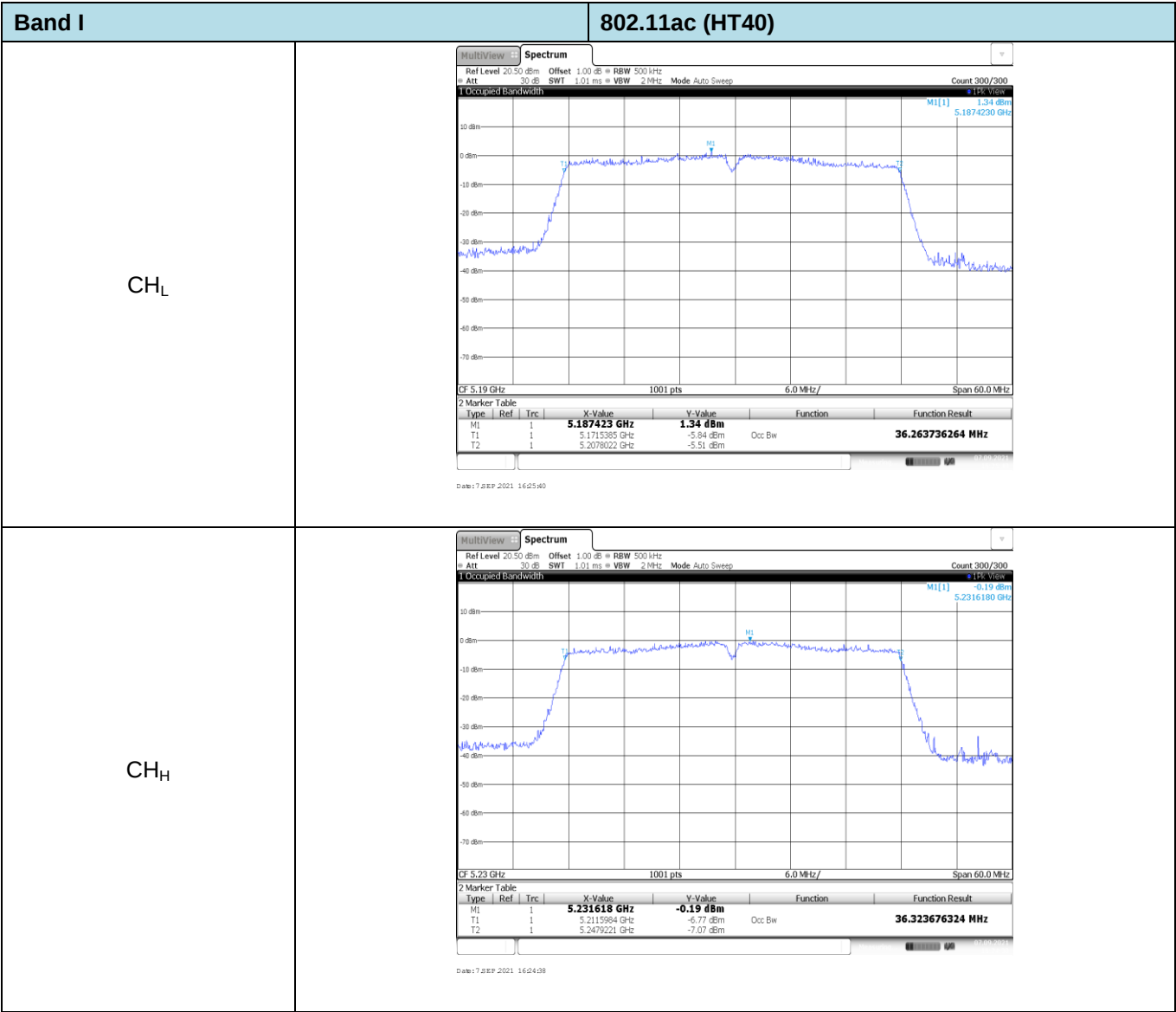
Band I

802.11a

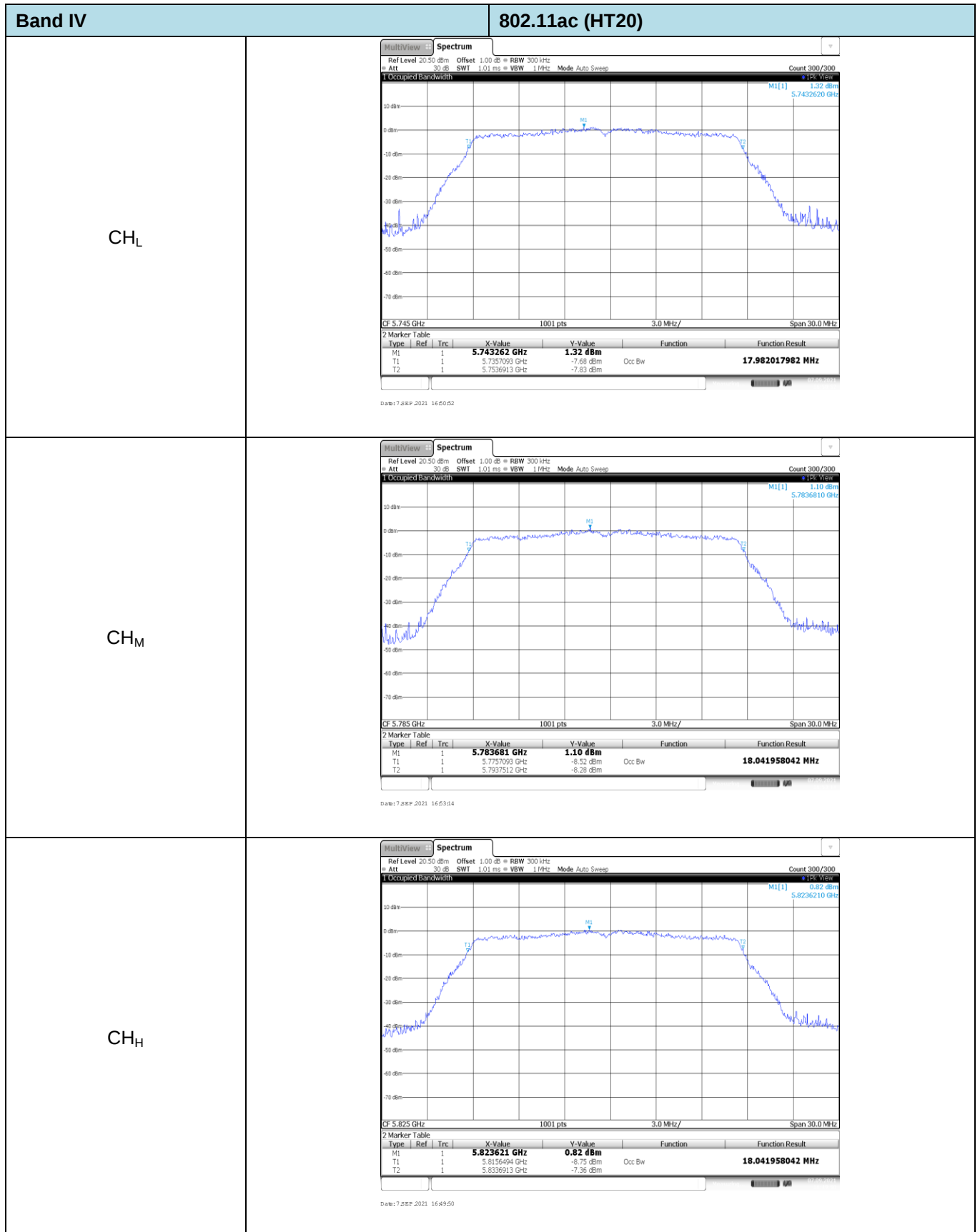
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Count 300/300 ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Occupied Bandwidth 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 5.178112 GHz -3.67 dBm 5.1781120 GHz CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <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>1</td><td>5.178112 GHz</td><td>-3.67 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td>1</td><td>5.171888 GHz</td><td>-7.13 dBm</td><td>Occ BW</td><td>16.933066933 MHz</td></tr><tr><td>T2</td><td>1</td><td>1</td><td>5.188120 GHz</td><td>-7.11 dBm</td><td></td><td></td></tr></table> Date: 17 SEP 2021 16:00:10	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.178112 GHz	-3.67 dBm			T1	1	1	5.171888 GHz	-7.13 dBm	Occ BW	16.933066933 MHz	T2	1	1	5.188120 GHz	-7.11 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1	1	5.178112 GHz	-3.67 dBm																									
T1	1	1	5.171888 GHz	-7.13 dBm	Occ BW	16.933066933 MHz																							
T2	1	1	5.188120 GHz	-7.11 dBm																									

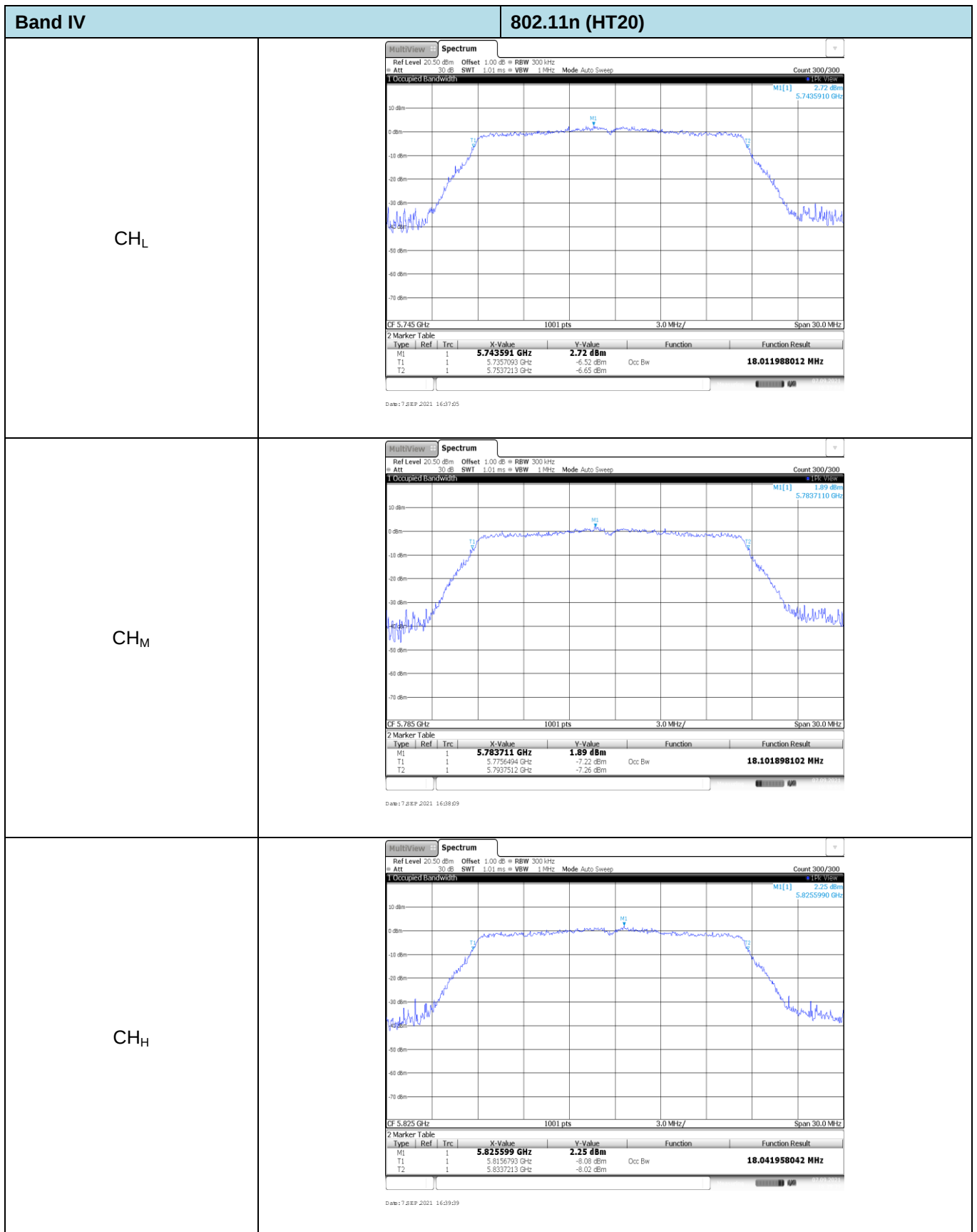
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Count 300/300 ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Occupied Bandwidth 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 5.218112 GHz -3.16 dBm 5.2181120 GHz CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <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>1</td><td>5.218112 GHz</td><td>-3.16 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td>1</td><td>5.211488 GHz</td><td>-7.46 dBm</td><td>Occ BW</td><td>16.933066933 MHz</td></tr><tr><td>T2</td><td>1</td><td>1</td><td>5.228118 GHz</td><td>-7.42 dBm</td><td></td><td></td></tr></table> Date: 17 SEP 2021 16:01:47	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.218112 GHz	-3.16 dBm			T1	1	1	5.211488 GHz	-7.46 dBm	Occ BW	16.933066933 MHz	T2	1	1	5.228118 GHz	-7.42 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1	1	5.218112 GHz	-3.16 dBm																									
T1	1	1	5.211488 GHz	-7.46 dBm	Occ BW	16.933066933 MHz																							
T2	1	1	5.228118 GHz	-7.42 dBm																									

CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Count 300/300 ATT 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Occupied Bandwidth 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 5.238052 GHz -2.72 dBm 5.2380520 GHz CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <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>1</td><td>5.238052 GHz</td><td>-2.72 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td>1</td><td>5.231488 GHz</td><td>-8.99 dBm</td><td>Occ BW</td><td>16.933066933 MHz</td></tr><tr><td>T2</td><td>1</td><td>1</td><td>5.248118 GHz</td><td>-7.82 dBm</td><td></td><td></td></tr></table> Date: 17 SEP 2021 15:58:34	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1	1	5.238052 GHz	-2.72 dBm			T1	1	1	5.231488 GHz	-8.99 dBm	Occ BW	16.933066933 MHz	T2	1	1	5.248118 GHz	-7.82 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1	1	5.238052 GHz	-2.72 dBm																									
T1	1	1	5.231488 GHz	-8.99 dBm	Occ BW	16.933066933 MHz																							
T2	1	1	5.248118 GHz	-7.82 dBm																									



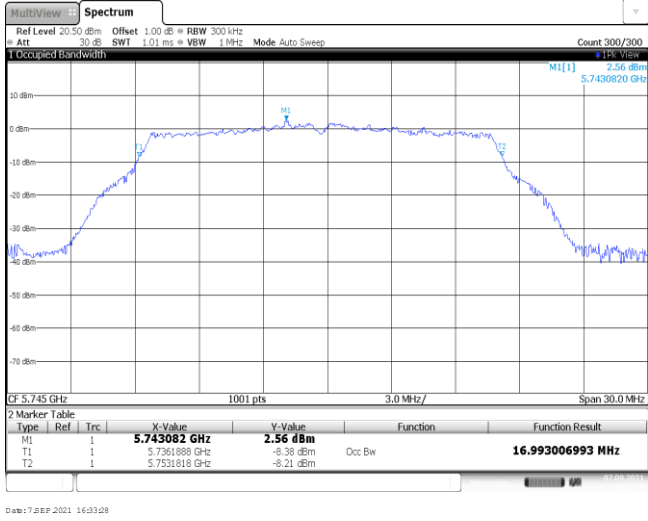
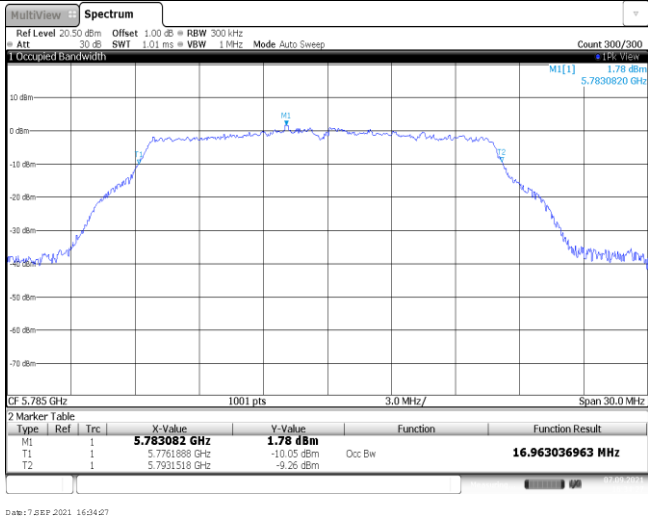
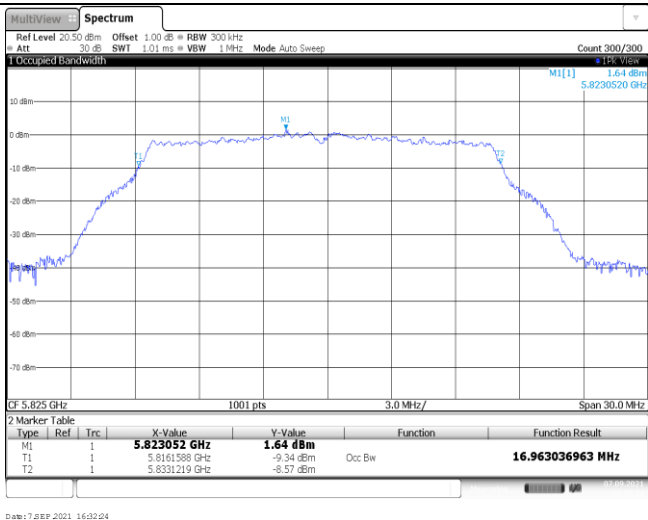
Band I		802.11n (HT40)
CH _L	MultView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 300/300 Occupied Bandwidth <	

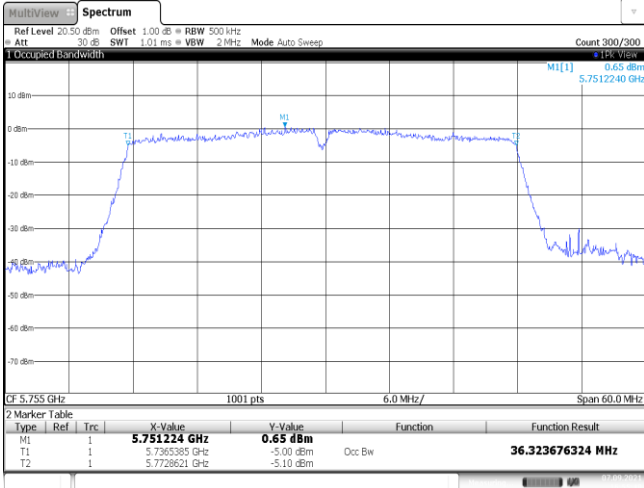
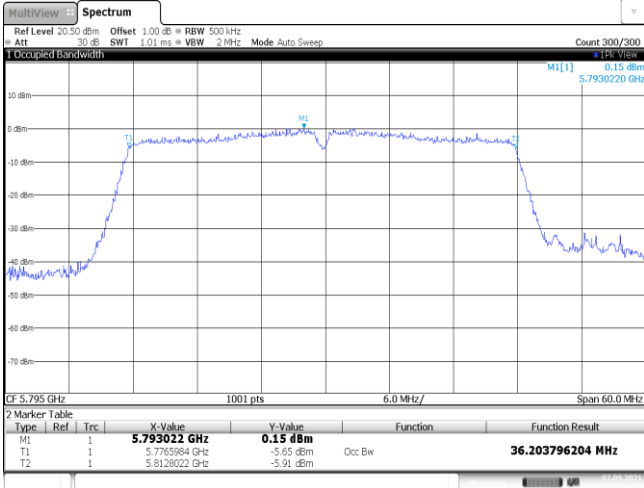


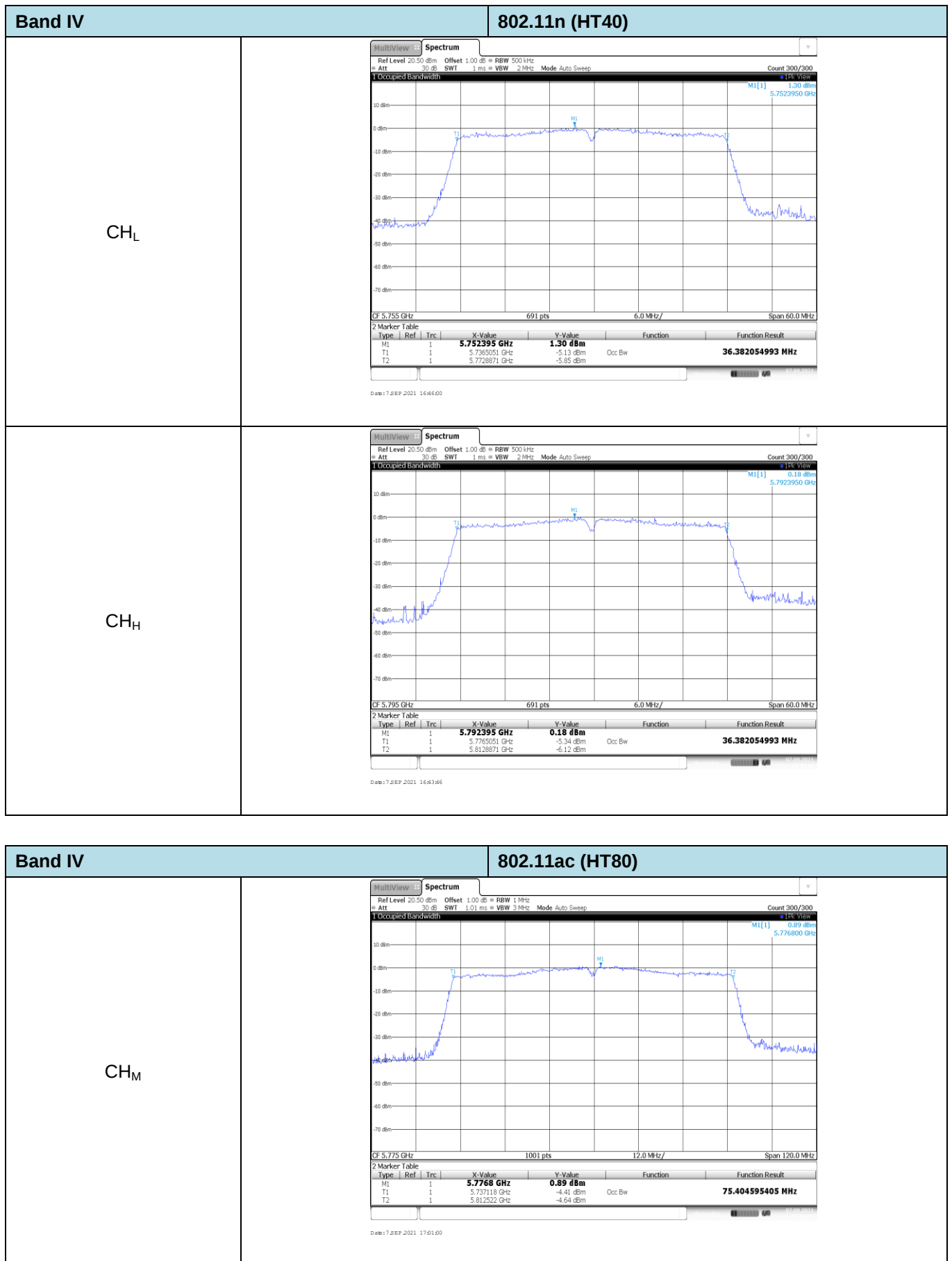


Band IV

802.11a

CH _L	 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 2.56 dBm 5.7430820 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 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.743082 GHz 2.56 dBm T1 1 5.7361888 GHz -8.38 dBm T2 1 5.7531818 GHz -8.21 dBm Occ Bw 16.993006993 MHz Date: 7 SEP 2021 16:03:28
CH _M	 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 1.78 dBm 5.7830820 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 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.783082 GHz 1.78 dBm T1 1 5.7761888 GHz -10.05 dBm T2 1 5.7931818 GHz -9.26 dBm Occ Bw 16.963036963 MHz Date: 7 SEP 2021 16:04:27
CH _H	 Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 1.64 dBm 5.8230520 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 2 Marker Table Type Ref Trc X-Value Y-Value Function Function Result M1 1 5.823052 GHz 1.64 dBm T1 1 5.8161588 GHz -9.34 dBm T2 1 5.8331219 GHz -8.57 dBm Occ Bw 16.963036963 MHz Date: 7 SEP 2021 16:02:24

Band IV		802.11ac (HT40)																											
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 2 MHz Mode Auto Sweep Count 300/300 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>5.751224 GHz</td><td>0.65 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.7365385 GHz</td><td>-5.00 dBm</td><td>Occ Bw</td><td>36.323676324 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.7728621 GHz</td><td>-5.10 dBm</td><td></td><td></td></tr></table> Date:7 SEP 2021 16:55:49	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.751224 GHz	0.65 dBm			T1	1		5.7365385 GHz	-5.00 dBm	Occ Bw	36.323676324 MHz	T2	1		5.7728621 GHz	-5.10 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.751224 GHz	0.65 dBm																									
T1	1		5.7365385 GHz	-5.00 dBm	Occ Bw	36.323676324 MHz																							
T2	1		5.7728621 GHz	-5.10 dBm																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWF 1.01 ms VBW 2 MHz Mode Auto Sweep Count 300/300 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>5.793022 GHz</td><td>0.15 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.7765984 GHz</td><td>-5.65 dBm</td><td>Occ Bw</td><td>36.203796204 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.8128022 GHz</td><td>-5.91 dBm</td><td></td><td></td></tr></table> Date:7 SEP 2021 16:58:25	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.793022 GHz	0.15 dBm			T1	1		5.7765984 GHz	-5.65 dBm	Occ Bw	36.203796204 MHz	T2	1		5.8128022 GHz	-5.91 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.793022 GHz	0.15 dBm																									
T1	1		5.7765984 GHz	-5.65 dBm	Occ Bw	36.203796204 MHz																							
T2	1		5.8128022 GHz	-5.91 dBm																									



Appendix E: 6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.64	Pass
			CH _M	17.61	
			CH _H	17.61	
		802.11n	CH _L	17.61	Pass
			CH _M	17.61	
			CH _H	17.61	
		802.11a	CH _L	16.38	Pass
			CH _M	16.38	
			CH _H	16.38	
	40	802.11ac	CH _L	36.00	Pass
			CH _H	36.18	
		802.11n	CH _L	36.09	Pass
			CH _H	36.17	
	80	802.11ac	CH _M	75.48	Pass

Test channel	802.11ac (HT20)																												
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz ATT 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 -9.50 dBm 5.735880 GHz M2 -2.12 dBm 5.747220 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 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>5.73588 GHz</td><td>-9.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.74722 GHz</td><td>-2.12 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>17.64 MHz</td><td>-0.01 dB</td><td></td><td></td></tr></table> Date: 7 SEP 2021 16:51:02	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73588 GHz	-9.50 dBm			M2	1		5.74722 GHz	-2.12 dBm			D3	M1	1	17.64 MHz	-0.01 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73588 GHz	-9.50 dBm																									
M2	1		5.74722 GHz	-2.12 dBm																									
D3	M1	1	17.64 MHz	-0.01 dB																									

| CH_M | MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz ATT 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 -9.33 dBm 5.775910 GHz M2 -2.94 dBm 5.787190 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | |------|-----|-----|-------------|-----------|----------|-----------------| | M1 | 1 | | 5.77591 GHz | -9.33 dBm | | | | M2 | 1 | | 5.78719 GHz | -2.94 dBm | | | | D3 | M1 | 1 | 17.61 MHz | -0.78 dB | | | Date: 7 SEP 2021 16:53:24 |
| CH_H | MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz ATT 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 -10.42 dBm 5.815880 GHz M2 -2.75 dBm 5.819690 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table | Type | Ref | Trc | X-Value | Y-Value | Function | Function Result | |------|-----|-----|-------------|------------|----------|-----------------| | M1 | 1 | | 5.81588 GHz | -10.42 dBm | | | | M2 | 1 | | 5.81969 GHz | -2.75 dBm | | | | D3 | M1 | 1 | 17.61 MHz | 1.55 dB | | | Date: 7 SEP 2021 16:50:00 |

Test channel	802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep <

Test channel

802.11a

CH_L

MultiView

Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep
Count 500/500
110.0 dBm

Frequency Sweep

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

M1[1] -9.38 dBm

M2[1] 5.7365100 GHz
-2.08 dBm
5.7522300 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.73651 GHz	-9.38 dBm		
M2	1		5.75223 GHz	-2.08 dBm		
D3	M1	1	16.38 MHz	-1.07 dB		

Date: 7 SEP 2021 16:03:38

CH_M

MultiView

Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep
Count 500/500
115.0 dBm

Frequency Sweep

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

M1[1] -10.08 dBm

M2[1] 5.7765100 GHz
-2.76 dBm
5.7871900 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.77651 GHz	-10.08 dBm		
M2	1		5.78719 GHz	-2.76 dBm		
D3	M1	1	16.38 MHz	0.92 dB		

Date: 7 SEP 2021 16:04:06

CH_H

MultiView

Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep
Count 500/500
116.0 dBm

Frequency Sweep

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

M1[1] -10.01 dBm

M2[1] 5.8165100 GHz
-2.86 dBm
5.8184300 GHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.81651 GHz	-10.01 dBm		
M2	1		5.81843 GHz	-2.86 dBm		
D3	M1	1	16.38 MHz	0.41 dB		

Date: 7 SEP 2021 16:02:04

Test channel

802.11ac (HT40)

CH_L

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
ATT 30 dB SWT 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.73688 GHz	-11.28 dBm		
M2	1		5.75842 GHz	-4.75 dBm		
D3	M1	1		36.0 MHz		0.43 dB

Date: 7 SEP 2021 16:55:58

CH_H

Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz
ATT 30 dB SWT 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz

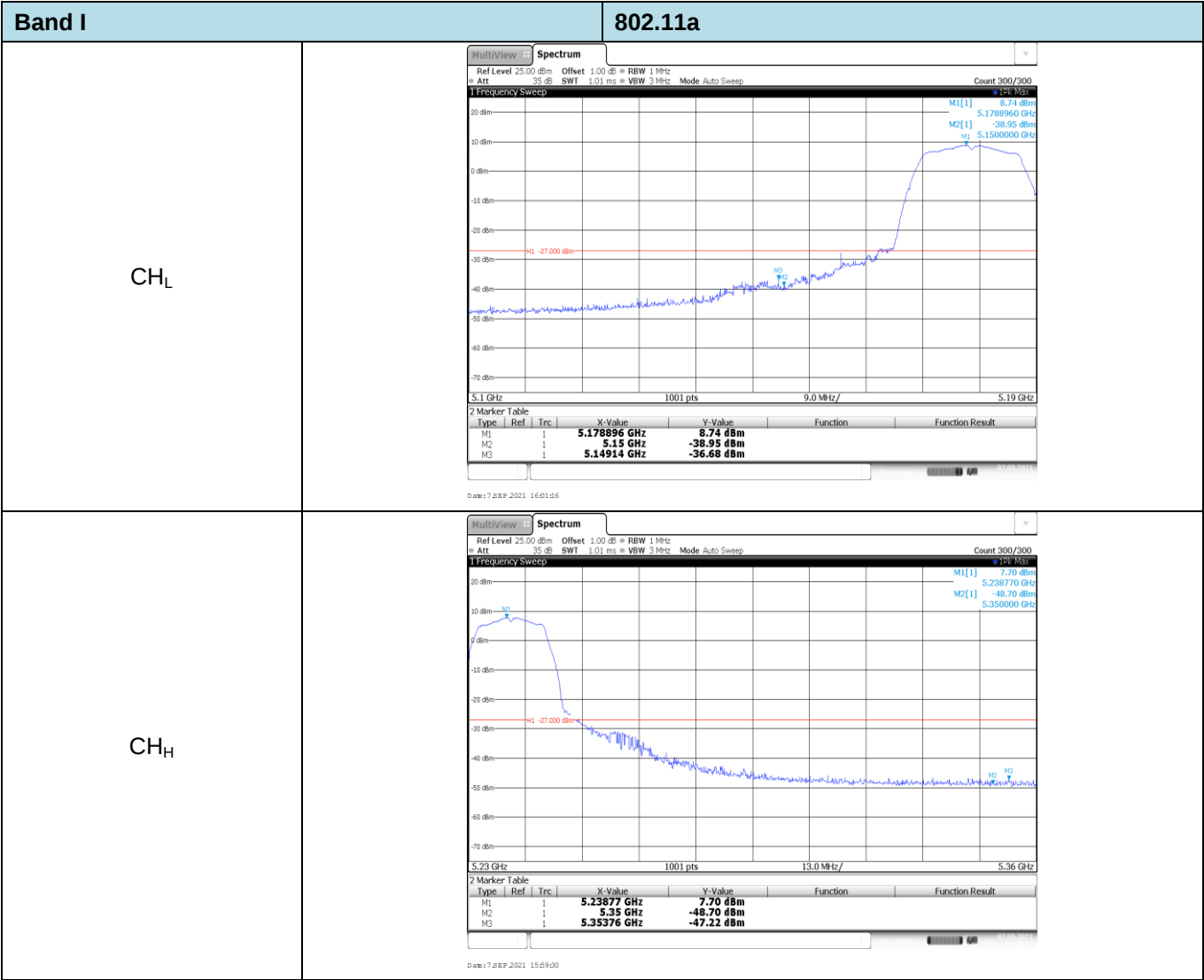
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.7767 GHz	-12.49 dBm		
M2	1		5.79842 GHz	-5.24 dBm		
D3	M1	1		36.18 MHz		1.02 dB

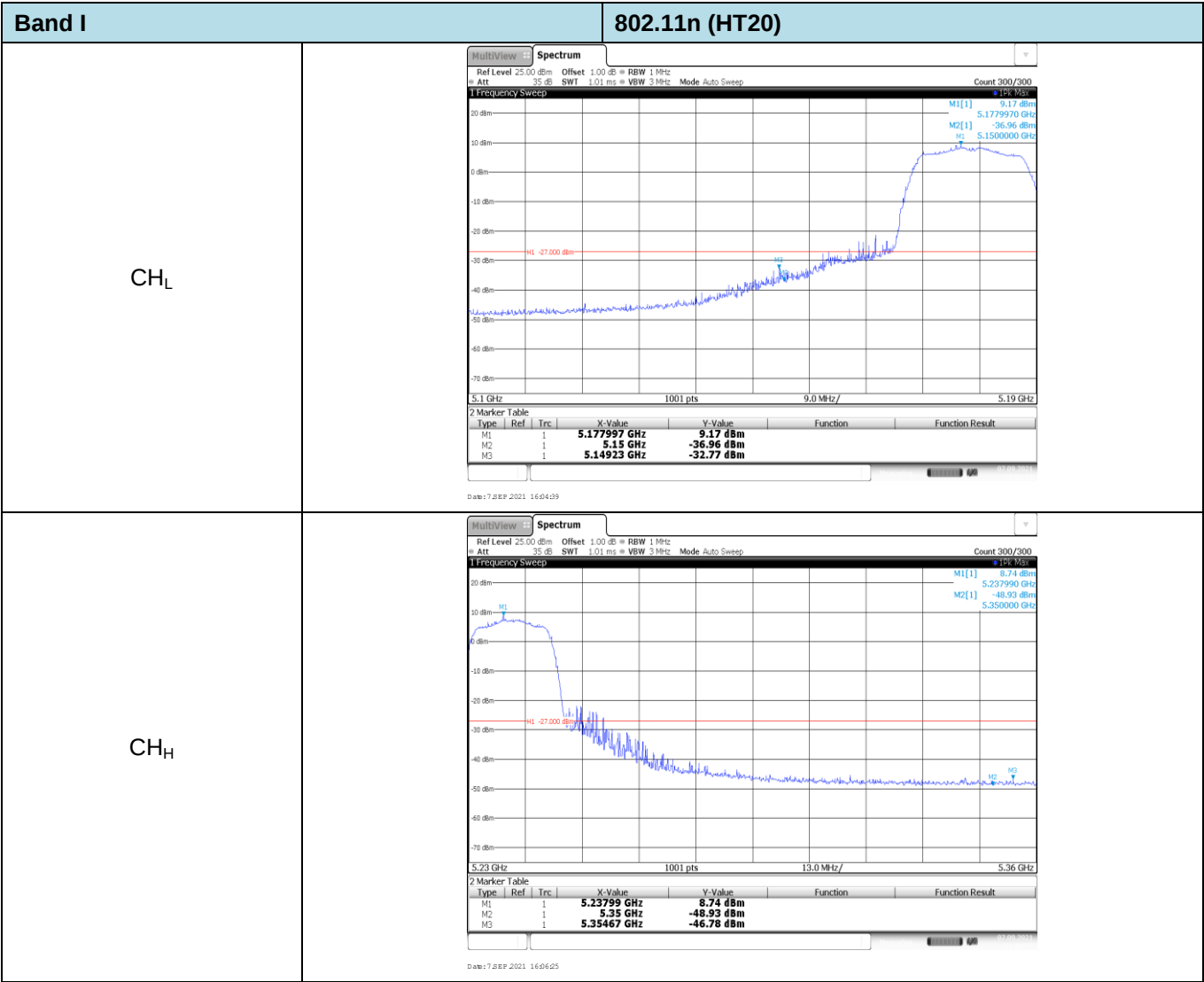
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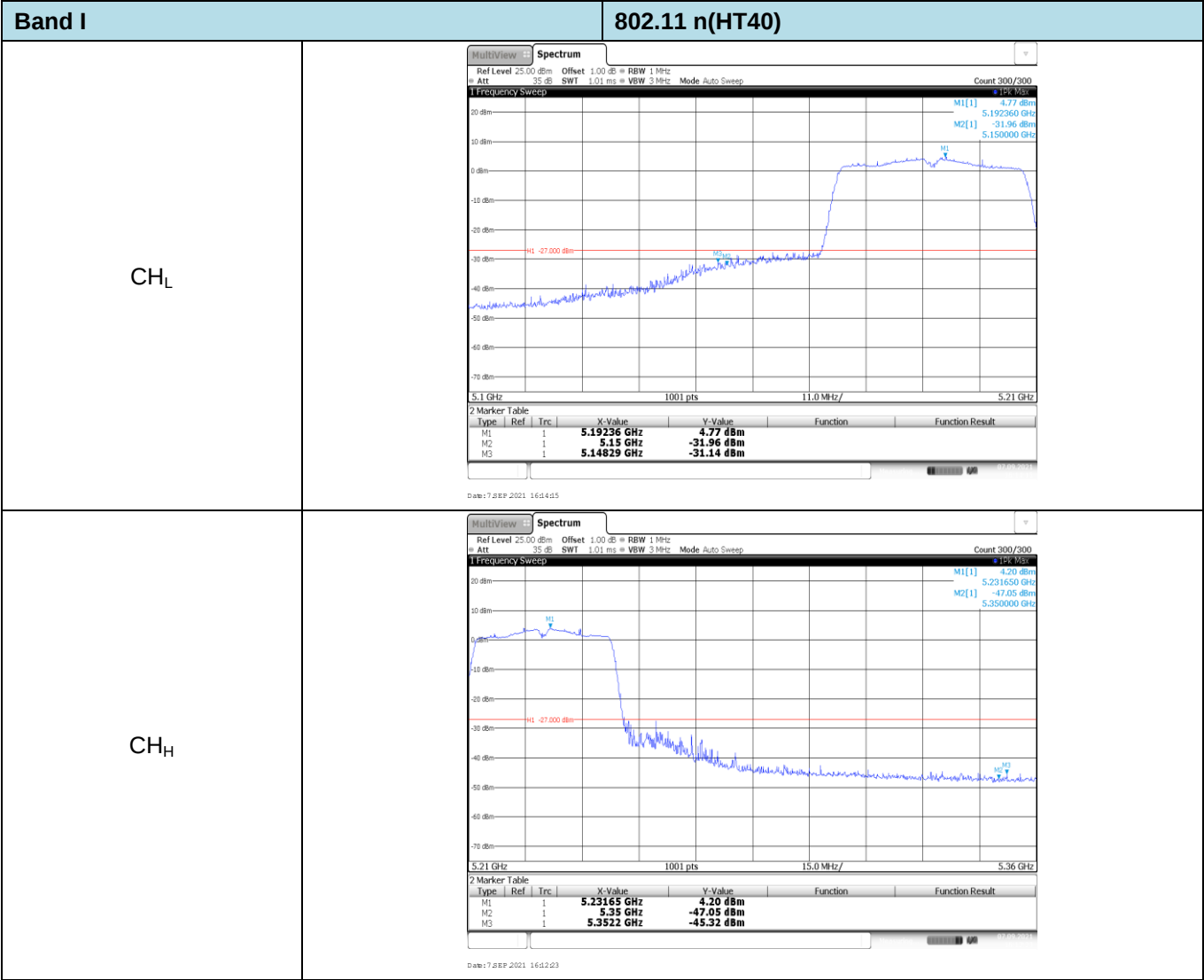
Test channel	802.11n (HT40)																												
CH _L	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1 -10.810 dBm M2 M1[1] -10.93 dBm 5.7368261 GHz M2[1] -4.81 dBm 5.7584783 GHz CF 5.755 GHz 691 pts 6.0 MHz/ Span 60.0 MHz <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>5.7368261 GHz</td><td>-10.93 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.7584783 GHz</td><td>-4.81 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>36.087 MHz</td><td>-0.81 dB</td><td></td><td></td></tr></table> Date: 7 SEP 2021 16:46:10	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.7368261 GHz	-10.93 dBm			M2	1		5.7584783 GHz	-4.81 dBm			D3	M1	1	36.087 MHz	-0.81 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.7368261 GHz	-10.93 dBm																									
M2	1		5.7584783 GHz	-4.81 dBm																									
D3	M1	1	36.087 MHz	-0.81 dB																									
CH _H	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.07 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1 -11.139 dBm M2 M1[1] -11.41 dBm 5.7767391 GHz M2[1] -5.34 dBm 5.7984783 GHz CF 5.795 GHz 691 pts 6.0 MHz/ Span 60.0 MHz <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>5.7767391 GHz</td><td>-11.41 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.7984783 GHz</td><td>-5.34 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>36.1739 MHz</td><td>-0.72 dB</td><td></td><td></td></tr></table> Date: 7 SEP 2021 16:43:55	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.7767391 GHz	-11.41 dBm			M2	1		5.7984783 GHz	-5.34 dBm			D3	M1	1	36.1739 MHz	-0.72 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.7767391 GHz	-11.41 dBm																									
M2	1		5.7984783 GHz	-5.34 dBm																									
D3	M1	1	36.1739 MHz	-0.72 dB																									

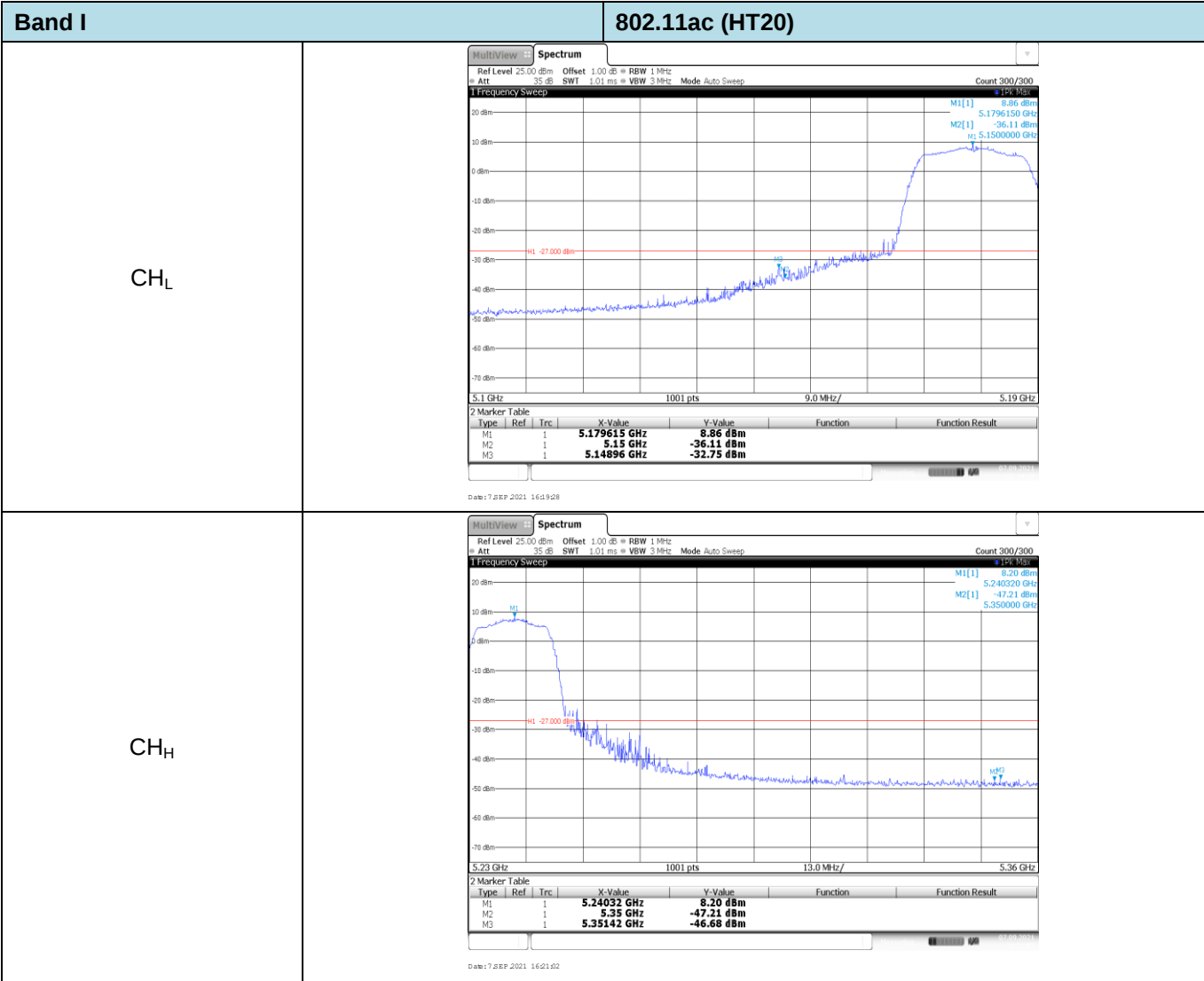
Test channel	802.11ac (HT80)																												
CH _M	MultiViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.2 ms VBW 300 kHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1 -14.200 dBm M2 M1[1] -15.30 dBm 5.73696 GHz M2[1] -8.28 dBm 5.78964 GHz CF 5.775 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz <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>5.73696 GHz</td><td>-15.30 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.78964 GHz</td><td>-8.28 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>75.48 MHz</td><td>0.67 dB</td><td></td><td></td></tr></table> Date: 7 SEP 2021 17:01:09	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.73696 GHz	-15.30 dBm			M2	1		5.78964 GHz	-8.28 dBm			D3	M1	1	75.48 MHz	0.67 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.73696 GHz	-15.30 dBm																									
M2	1		5.78964 GHz	-8.28 dBm																									
D3	M1	1	75.48 MHz	0.67 dB																									

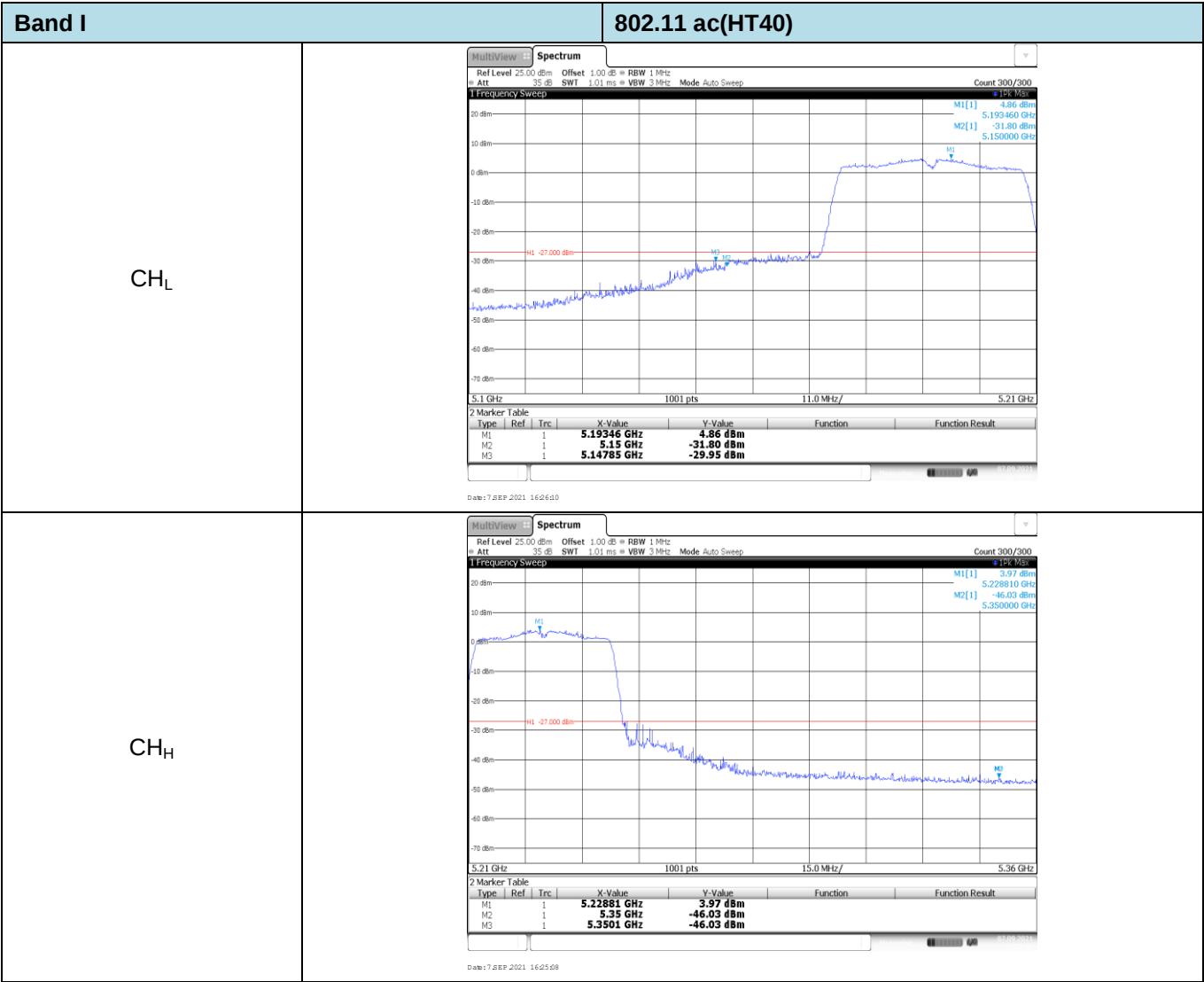
Appendix F: Band edge

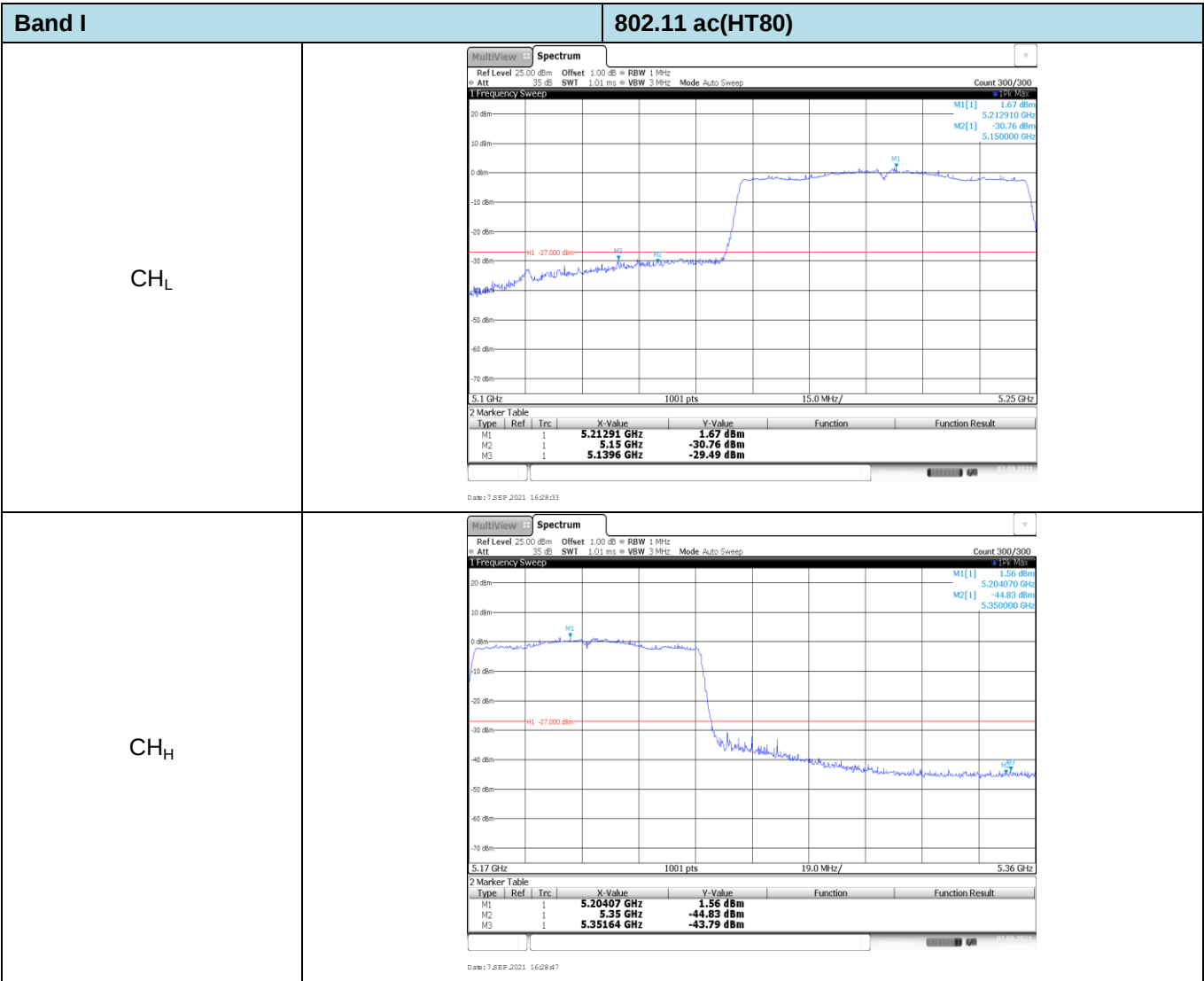


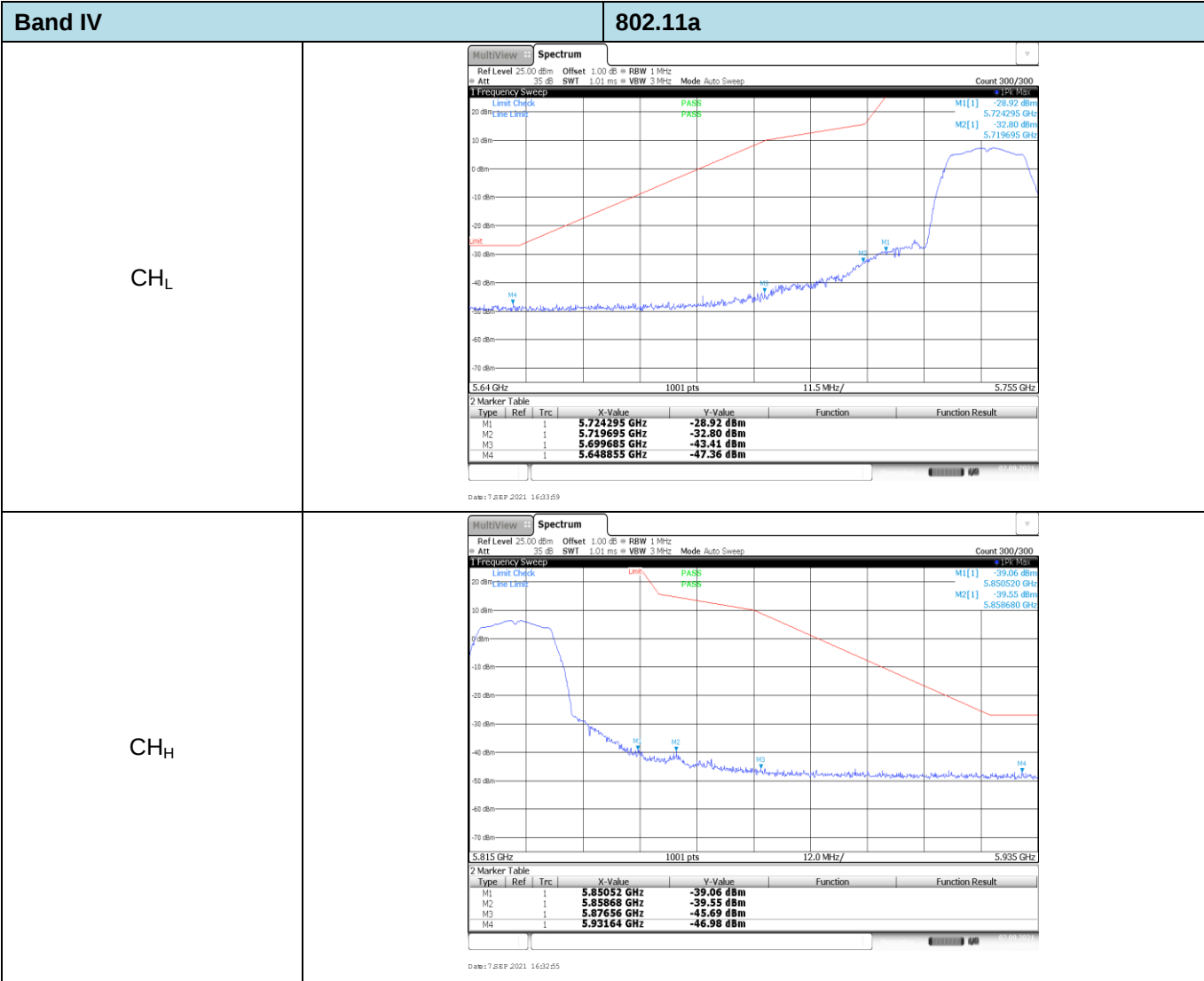


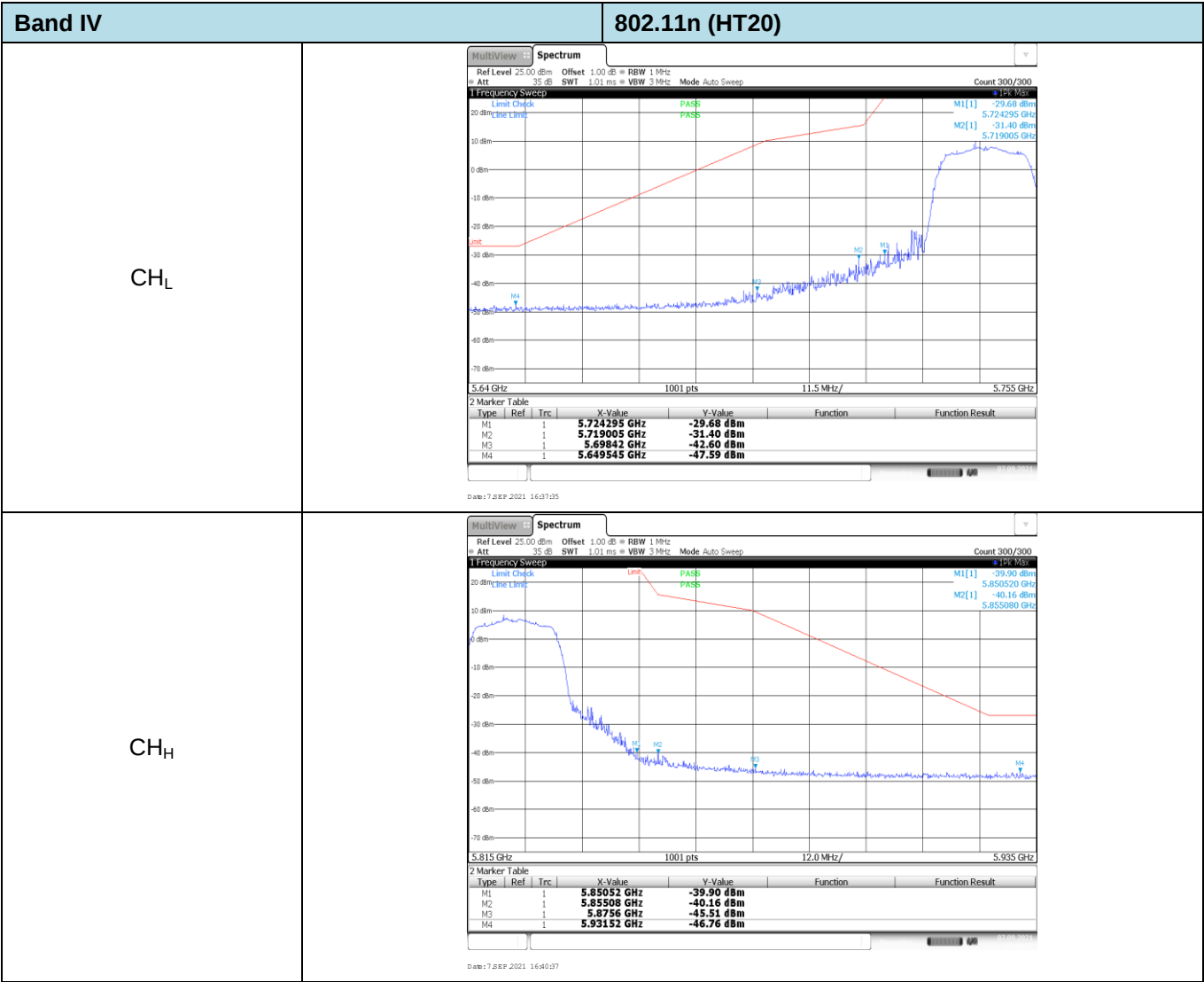


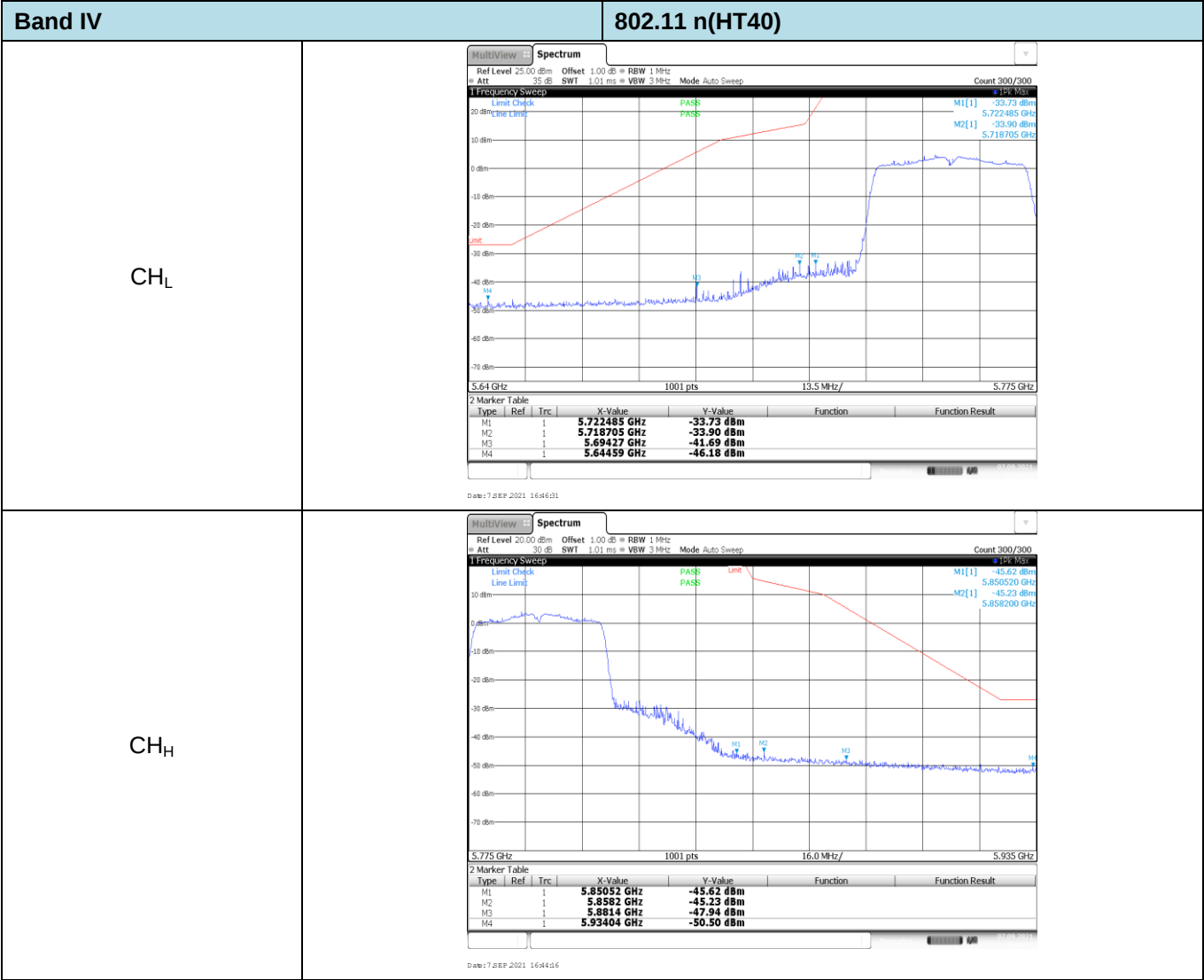


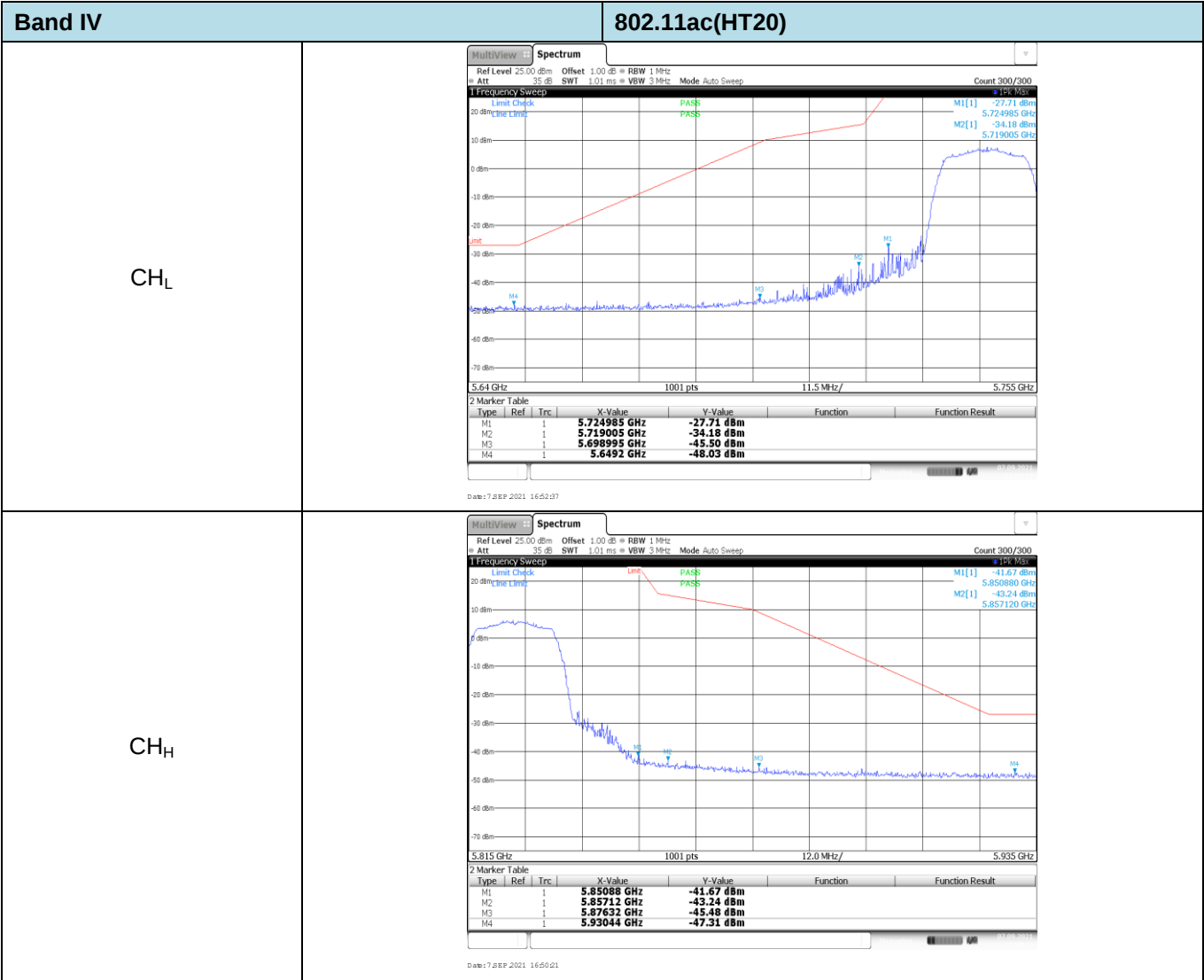


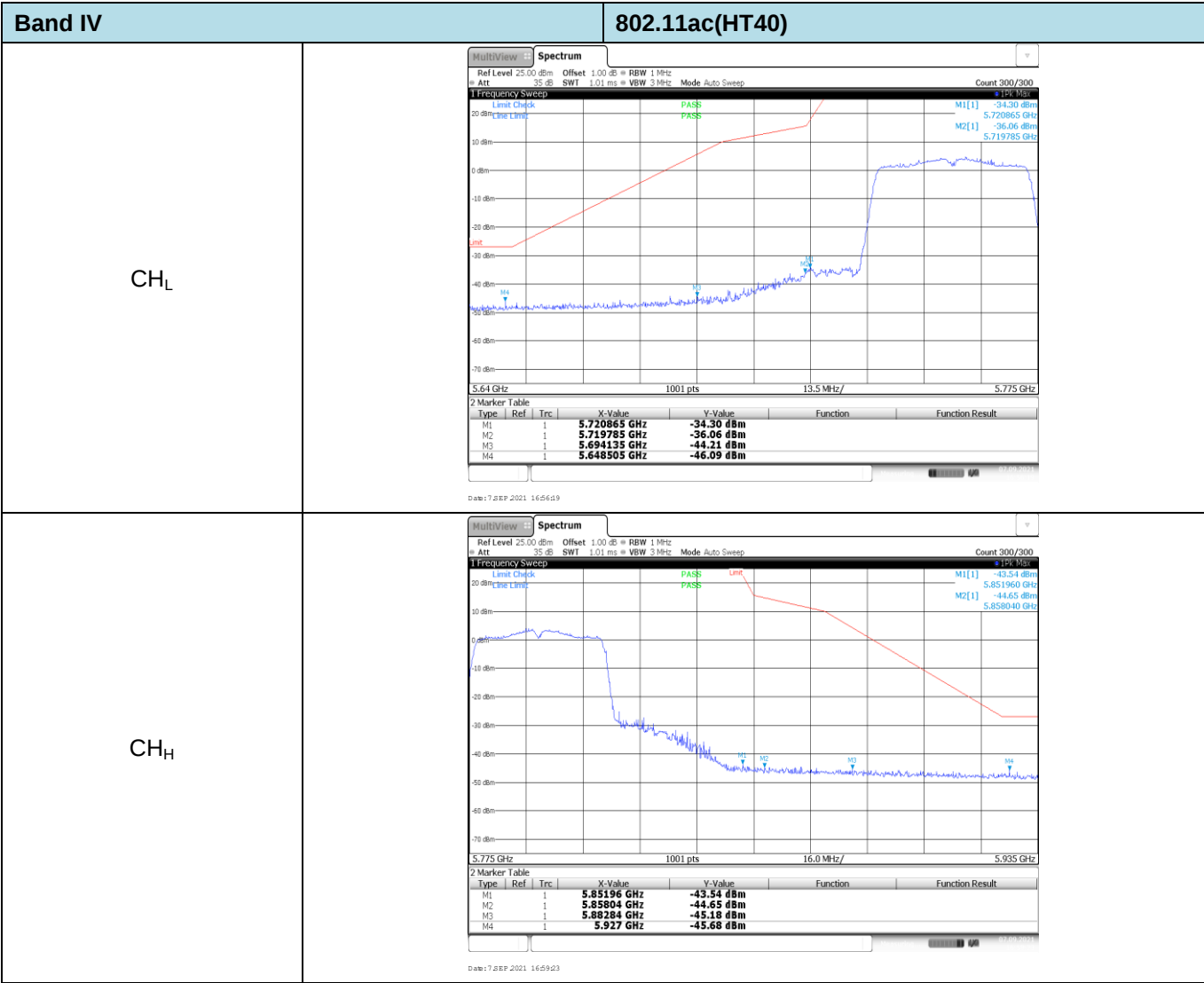


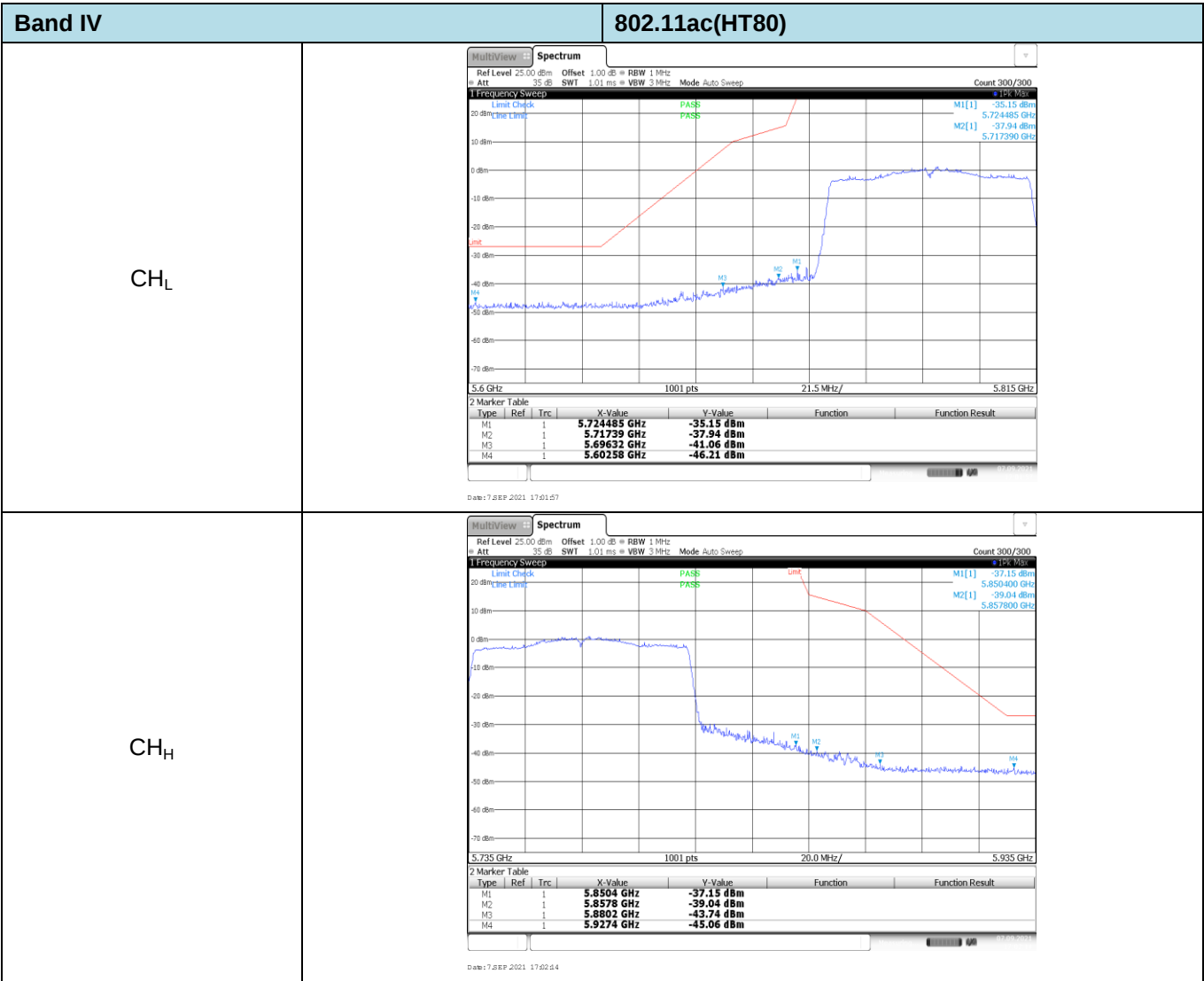












Appendix G: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	-28000.00	-5.40541	PASS
T _N	V _N	-27000.00	-5.21235	PASS
T _N	V _H	-27000.00	-5.21235	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	-32000.00	-5.57006	PASS
T _N	V _N	-32000.00	-5.57006	PASS
T _N	V _H	-32000.00	-5.57006	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	-28000.00	-5.40541	PASS
V _N	-10	-28000.00	-5.40541	PASS
V _N	0	-28000.00	-5.40541	PASS
V _N	10	-28000.00	-5.40541	PASS
V _N	20	-28000.00	-5.40541	PASS
V _N	30	-28000.00	-5.40541	PASS
V _N	40	-28000.00	-5.40541	PASS
V _N	50	-28000.00	-5.40541	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	-33000.00	-5.74413	PASS
V _N	-10	-33000.00	-5.74413	PASS
V _N	0	-33000.00	-5.74413	PASS
V _N	10	-33000.00	-5.74413	PASS
V _N	20	-33000.00	-5.74413	PASS
V _N	30	-33000.00	-5.74413	PASS
V _N	40	-33000.00	-5.74413	PASS
V _N	50	-33000.00	-5.74413	PASS

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