

APPENDIX REPORT

Project No.	SHT2005087301EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20050873001	Model No.	SC201
Start test date	2020/6/4	Finish date	2020/6/4
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	Auditor	<i>William.wang</i>

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	duty cycle (%)	duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	79	1.02	13.11	24.00	Pass
			CH _M	79	1.02	12.39		
			CH _H	79	1.02	12.63		
		802.11n	CH _L	79	1.02	12.65	24.00	Pass
			CH _M	79	1.02	12.43		
			CH _H	79	1.02	12.51		
		802.11a	CH _L	81	0.92	13.99	24.00	Pass
			CH _M	81	0.92	12.79		
			CH _H	81	0.92	12.43		
	40	802.11ac	CH _L	67	1.74	14.33	24.00	Pass
			CH _H	67	1.74	13.85		
		802.11n	CH _L	70	1.55	15.17	24.00	Pass
			CH _H	70	1.55	15.08		
	80	802.11ac	CH _M	60	2.22	14.73	24.00	Pass
II	20	802.11ac	CH _L	78	1.08	16.55	24.00	Pass
			CH _M	78	1.08	16.09		
			CH _H	78	1.08	15.32		
		802.11n	CH _L	79	1.02	16.51	24.00	Pass
			CH _M	79	1.02	16.19		
			CH _H	79	1.02	15.62		
		802.11a	CH _L	82	0.86	17.66	24.00	Pass
			CH _M	82	0.86	17.16		
			CH _H	82	0.86	16.21		
	40	802.11ac	CH _L	67	1.74	14.25	24.00	Pass
			CH _H	67	1.74	13.28		
		802.11n	CH _L	72	1.43	14.81	24.00	Pass
			CH _H	72	1.43	14.17		
	80	802.11ac	CH _M	63	2.01	13.28	24.00	Pass

Band	Bandwidth (MHz)	Type	Channel	duty cycle (%)	duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
III	20	802.11ac	CH _L	77	1.14	17.00	24.00	Pass
			CH _M	77	1.14	17.11		
			CH _H	77	1.14	17.38		
		802.11n	CH _L	80	0.97	16.31	24.00	Pass
			CH _M	80	0.97	16.53		
			CH _H	80	0.97	17.56		
		802.11a	CH _L	81	0.92	17.56	24.00	Pass
			CH _M	81	0.92	17.74		
			CH _H	81	0.92	18.71		
	40	802.11ac	CH _L	66	1.8	14.26	24.00	Pass
			CH _M	66	1.8	13.01		
			CH _H	66	1.8	15.20		
		802.11n	CH _L	70	1.55	15.63	24.00	Pass
			CH _M	70	1.55	15.66		
			CH _H	70	1.55	16.19		
	80	802.11ac	CH _L	62	2.08	14.71	24.00	Pass
			CH _M	62	2.08	14.52		
			CH _H	62	2.08	15.30		
IV	20	802.11ac	CH _L	76	1.19	18.84	30.00	Pass
			CH _M	76	1.19	18.50		
			CH _H	76	1.19	18.18		
		802.11n	CH _L	83	0.81	18.91	30.00	Pass
			CH _M	83	0.81	18.81		
			CH _H	83	0.81	18.35		
		802.11a	CH _L	82	0.86	19.60	30.00	Pass
			CH _M	82	0.86	19.81		
			CH _H	82	0.86	19.59		
	40	802.11ac	CH _L	65	1.87	16.02	30.00	Pass
			CH _H	65	1.87	16.04		
		802.11n	CH _L	69	1.61	18.03	30.00	Pass
			CH _H	69	1.61	17.90		
	80	802.11ac	CH _M	59	2.29	16.12	30.00	Pass

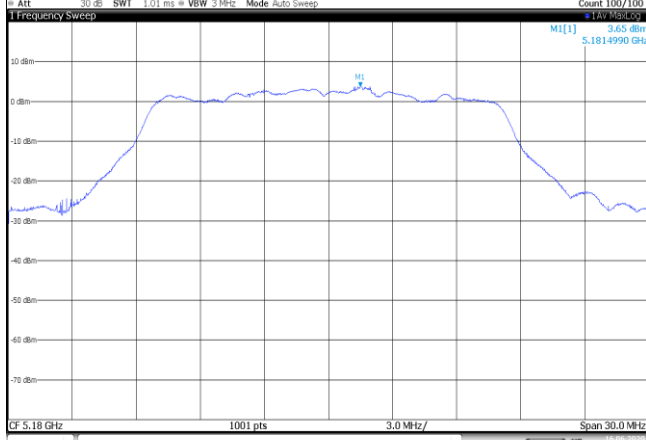
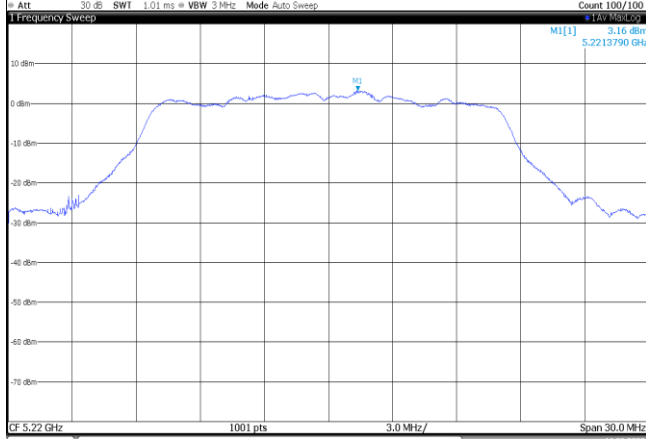
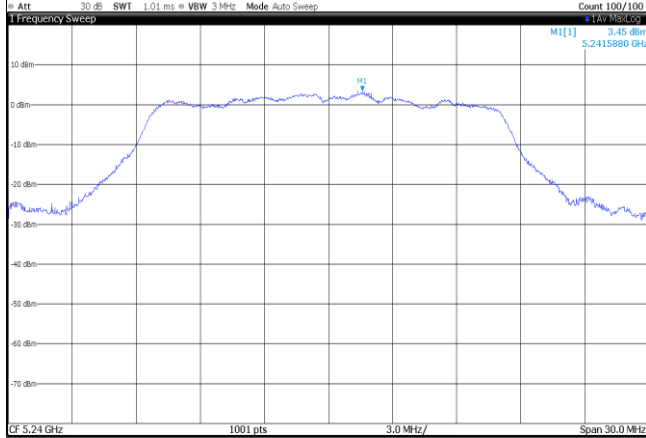
NOTE: duty cycle factor =10LOG(1/ duty cycle)

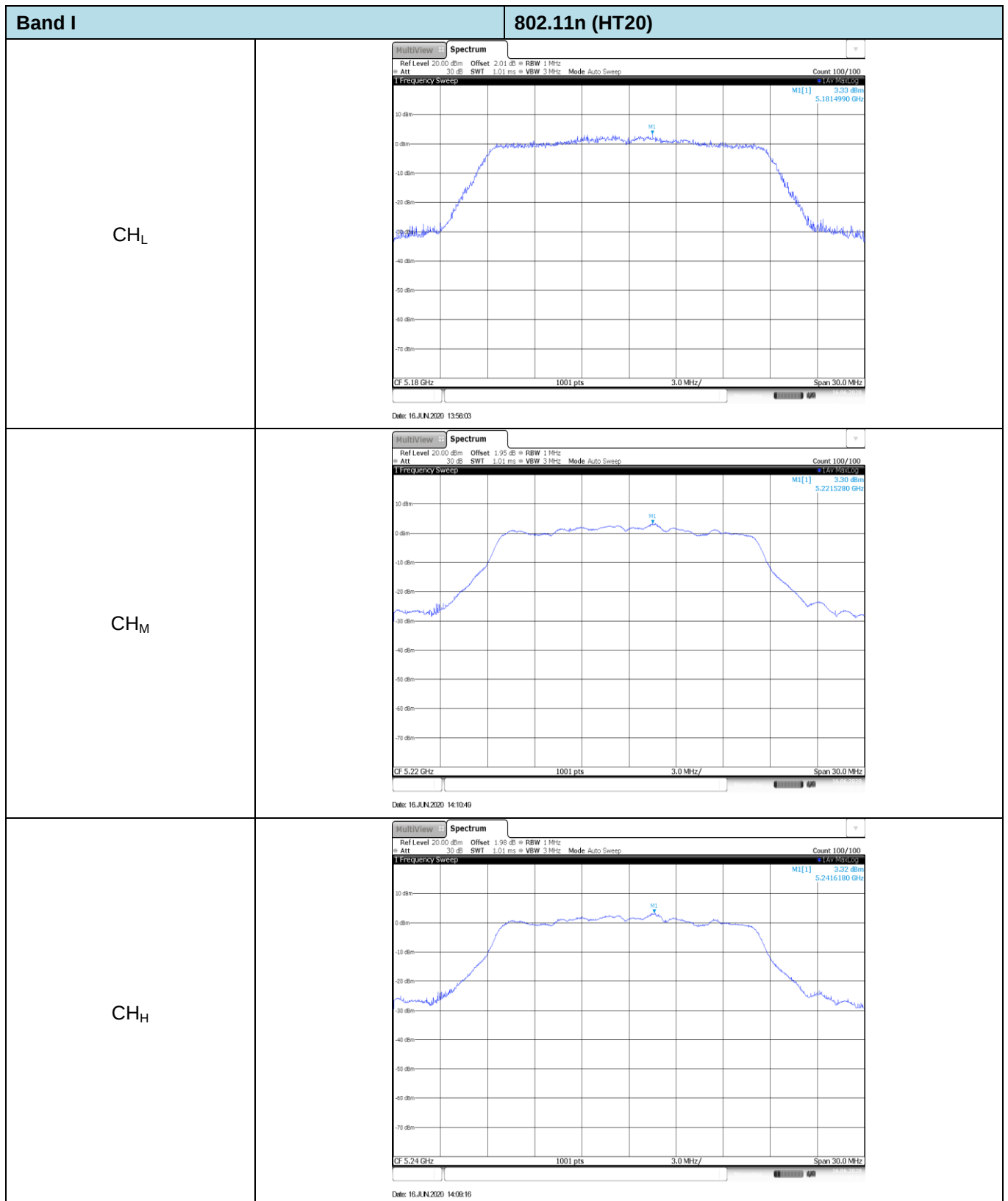
Appendix B: Maximum Power Spectral Density

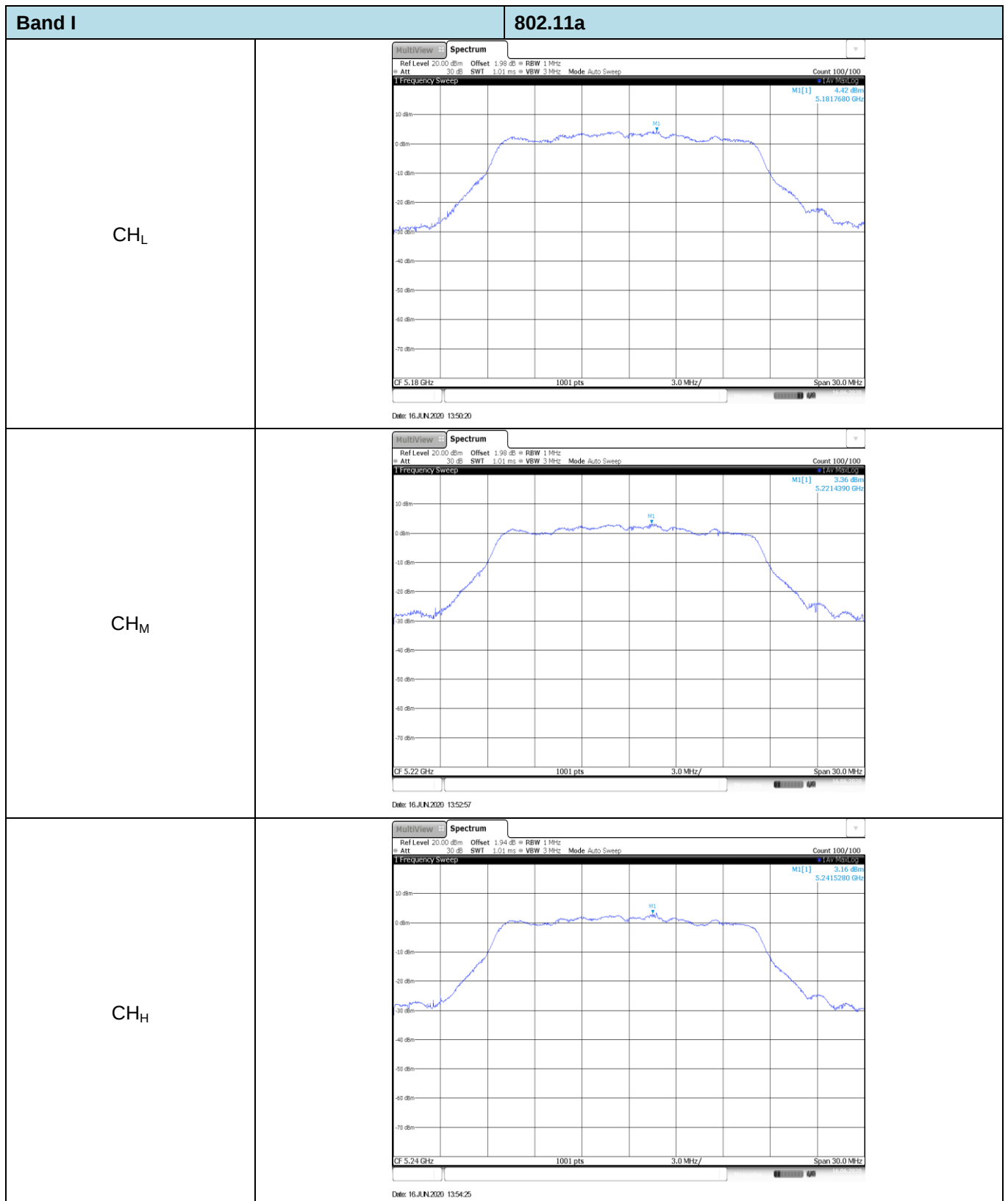
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	3.65	11.00	Pass
			CH _M	3.16		
			CH _H	3.45		
		802.11n	CH _L	3.33	11.00	Pass
			CH _M	3.30		
			CH _H	3.32		
		802.11a	CH _L	4.42	11.00	Pass
			CH _M	3.36		
			CH _H	3.16		
	40	802.11ac	CH _L	2.69	11.00	Pass
			CH _H	2.01		
		802.11n	CH _L	2.85	11.00	Pass
			CH _H	2.21		
	80	802.11ac	CH _M	-1.69	11.00	Pass
II	20	802.11ac	CH _L	7.21	11.00	Pass
			CH _M	7.01		
			CH _H	6.50		
		802.11n	CH _L	7.04	11.00	Pass
			CH _M	6.55		
			CH _H	5.55		
		802.11a	CH _L	8.73	11.00	Pass
			CH _M	7.66		
			CH _H	6.66		
	40	802.11ac	CH _L	1.65	11.00	Pass
			CH _H	1.17		
		802.11n	CH _L	2.12	11.00	Pass
			CH _H	1.76		
	80	802.11ac	CH _M	-0.68	11.00	Pass

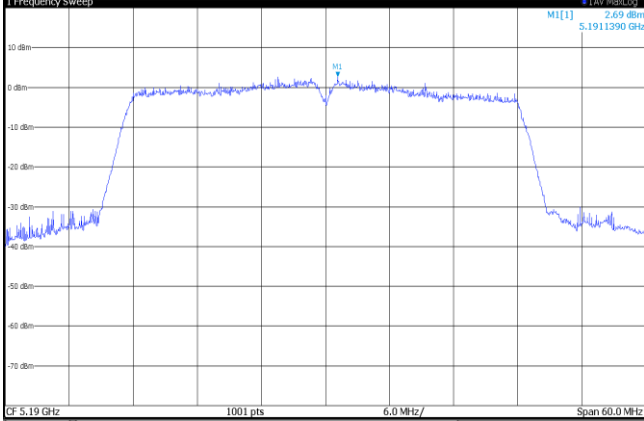
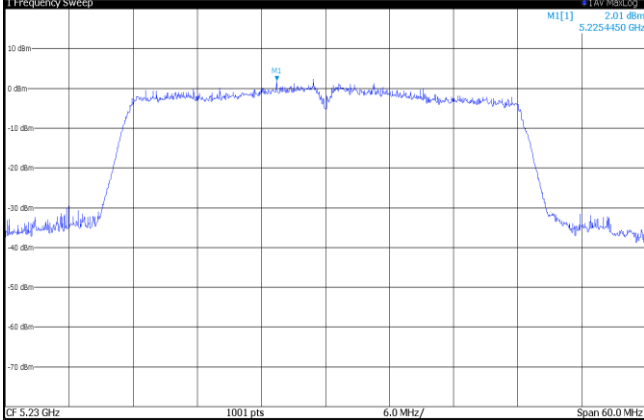
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
III	20	802.11ac	CH _L	7.03	11.00	Pass
			CH _M	7.22		
			CH _H	8.23		
		802.11n	CH _L	7.08	11.00	Pass
			CH _M	7.23		
			CH _H	7.93		
		802.11a	CH _L	7.53	11.00	Pass
			CH _M	8.40		
			CH _H	9.73		
	40	802.11ac	CH _L	0.61	11.00	Pass
			CH _M	0.06		
			CH _H	1.76		
		802.11n	CH _L	2.56	11.00	Pass
			CH _M	2.91		
			CH _H	3.80		
	80	802.11ac	CH _L	-3.14	11.00	Pass
			CH _M	-3.56		
			CH _H	-1.41		
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/500kHz)	Limit (dBm/500KHz)	Result
IV	20	802.11ac	CH _L	7.07	30.00	Pass
			CH _M	7.74		
			CH _H	7.35		
		802.11n	CH _L	7.60	30.00	Pass
			CH _M	6.85		
			CH _H	7.35		
		802.11a	CH _L	8.12	30.00	Pass
			CH _M	7.91		
			CH _H	7.56		
	40	802.11ac	CH _L	1.43	30.00	Pass
			CH _H	0.65		
		802.11n	CH _L	2.96	30.00	Pass
			CH _H	2.96		
	80	802.11ac	CH _M	-4.05	30.00	Pass

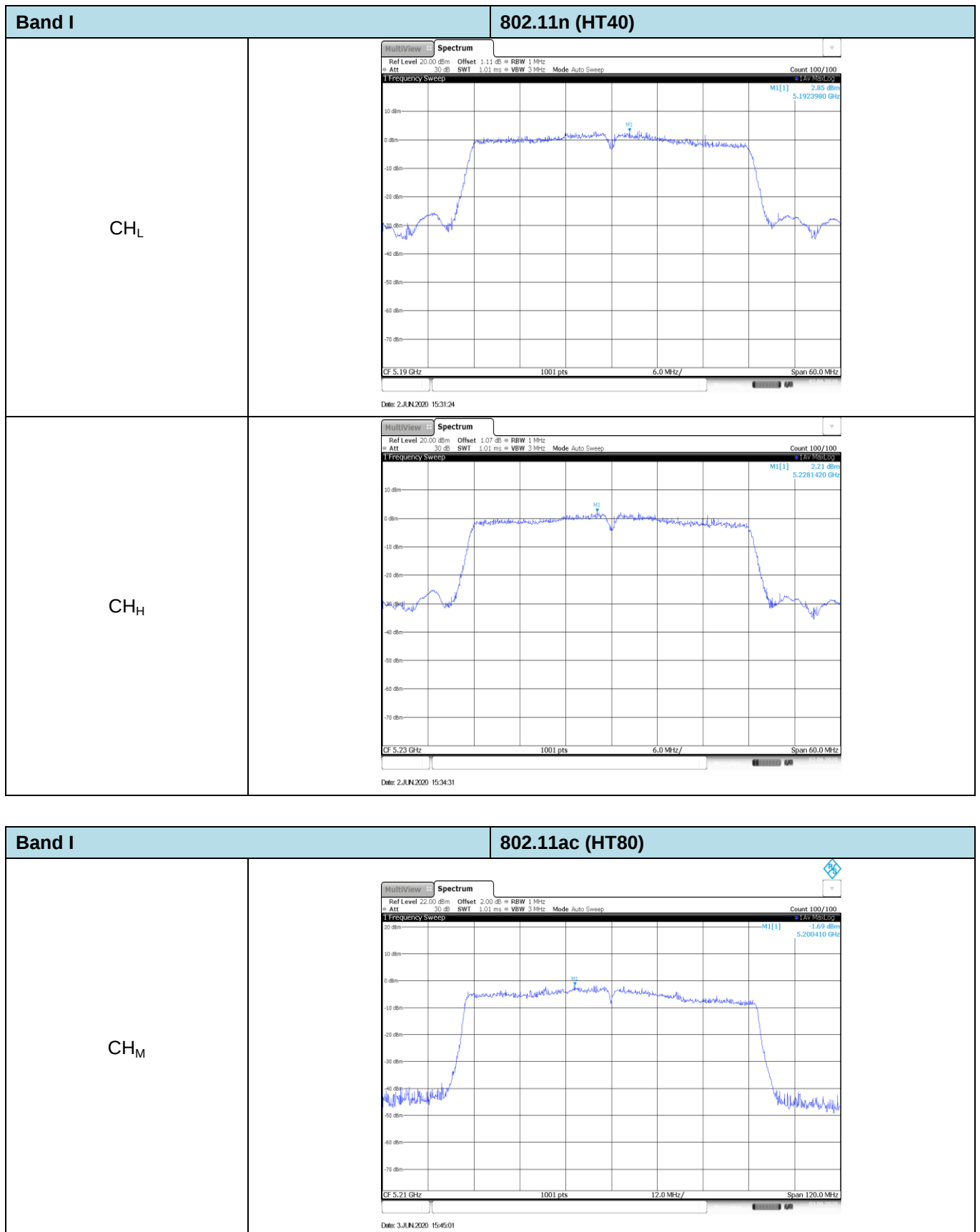
Test plot as follows:

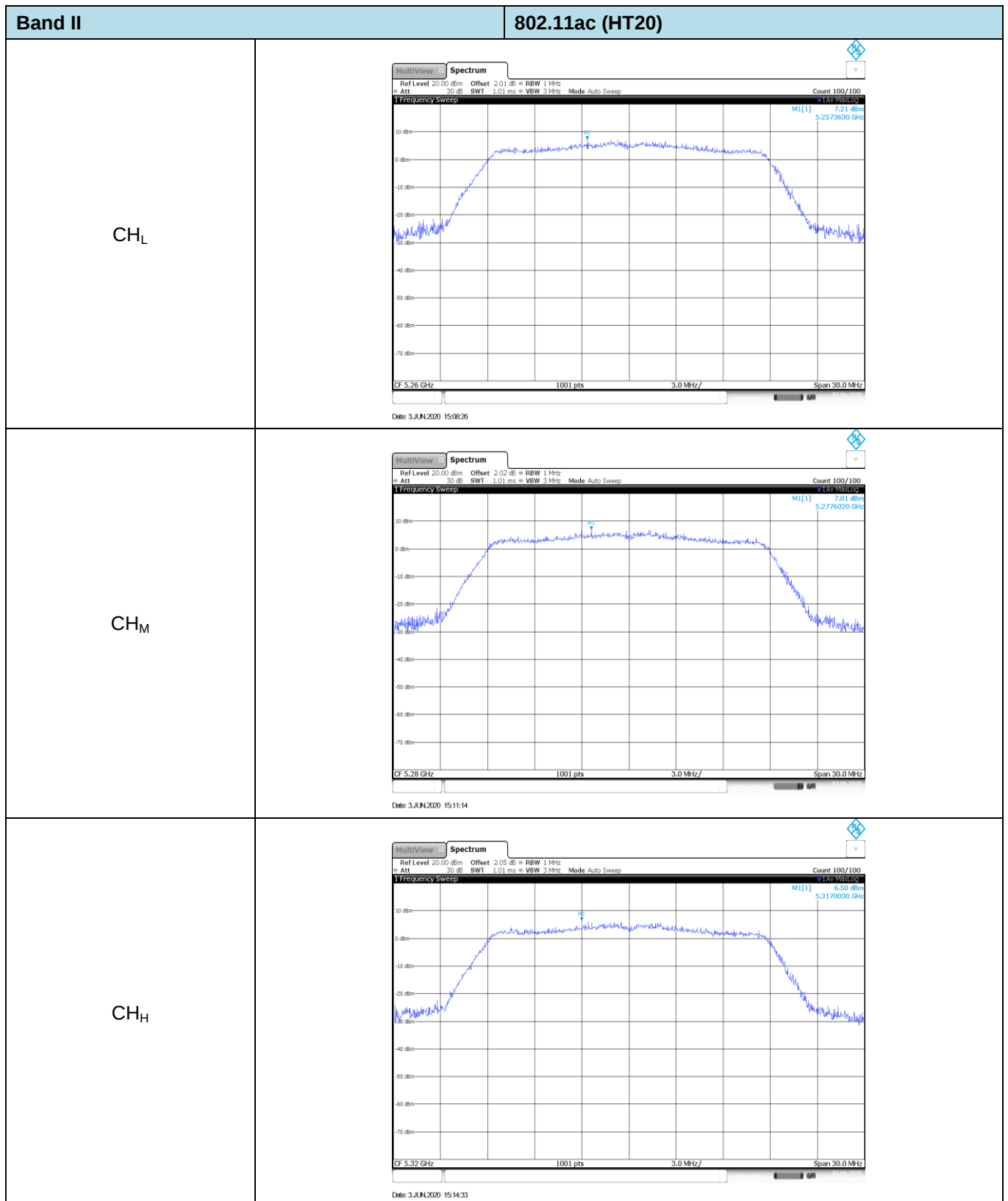
Band I		802.11ac (HT20)
CH _L	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Offset 1.94 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep 1 Frequency Sweep MI[1] 3.65 dBm 5.1814990 GHz  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUN 2020 14:12:33	
CH _M	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Offset 1.99 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep 1 Frequency Sweep MI[1] 3.16 dBm 5.2213790 GHz  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUN 2020 14:14:00	
CH _H	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Offset 1.95 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep 1 Frequency Sweep MI[1] 3.45 dBm 5.2415890 GHz  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUN 2020 14:15:32	

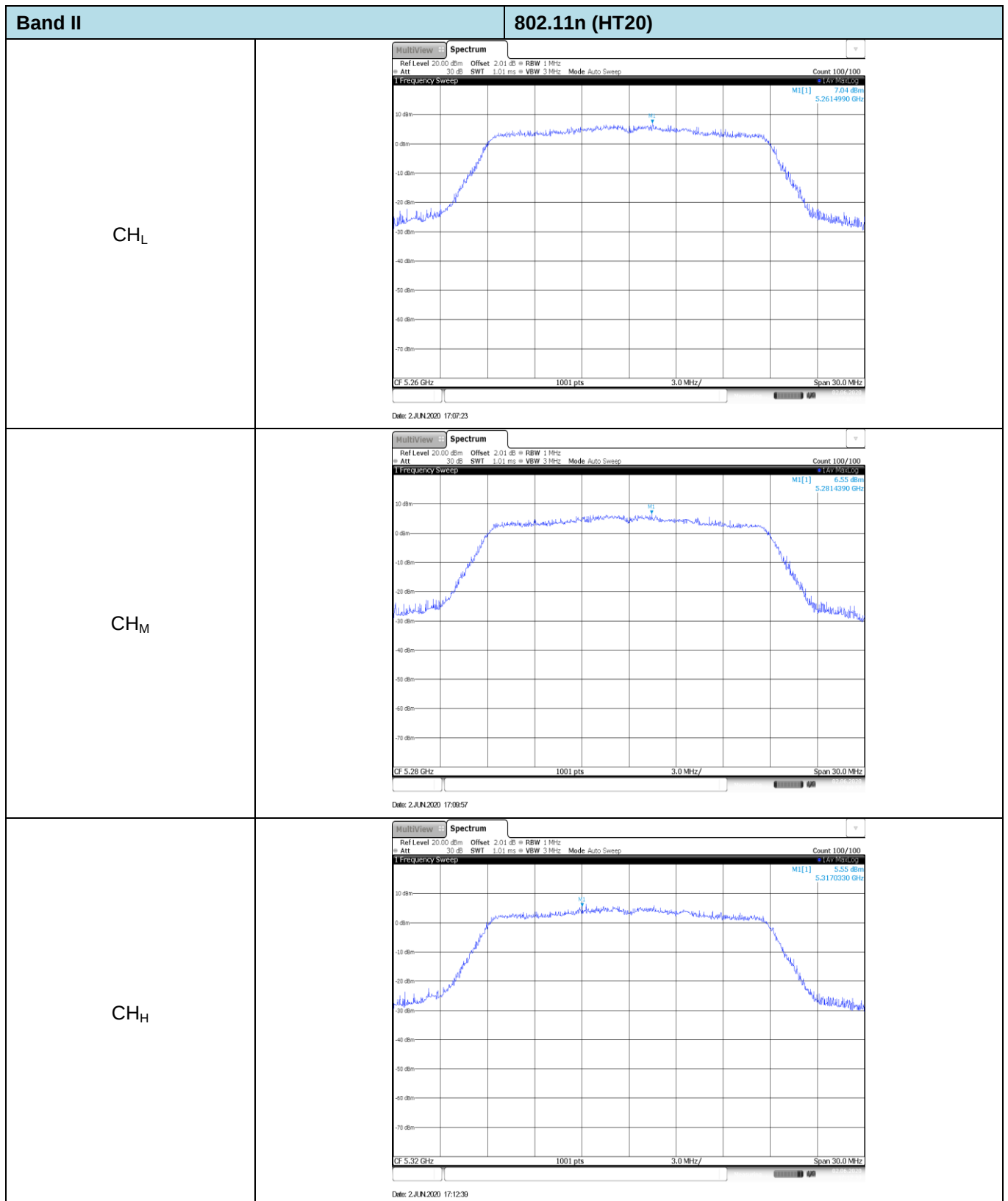


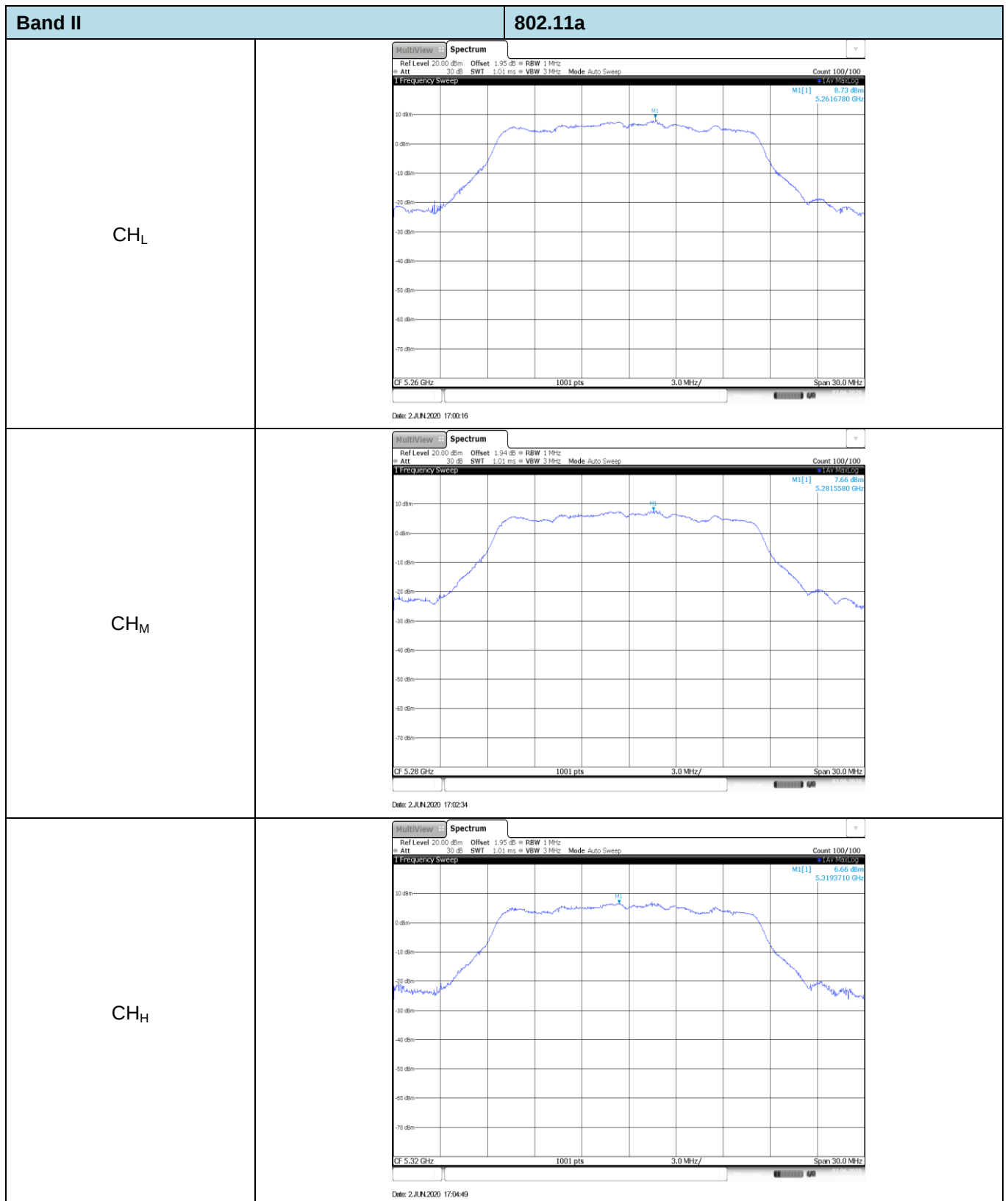


Band I		802.11ac (HT40)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.09 dB RBW 1 MHz SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 2.69 dBm 5.191390 GHz  CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 2 JUN 2020 15:56:45		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.09 dB RBW 1 MHz SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep MI[1] 2.01 dBm 5.2254450 GHz  CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 2 JUN 2020 16:11:43		





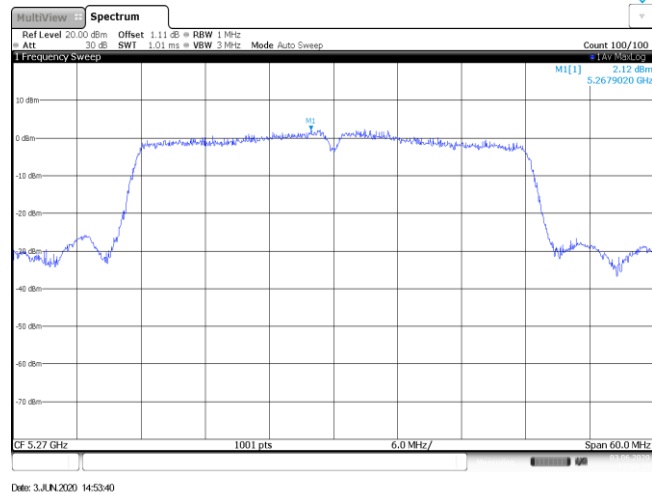
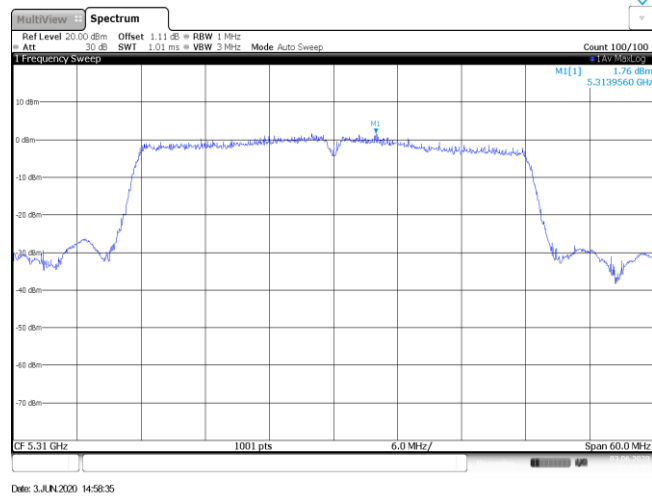




Band II		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.09 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.65 dBm 5.2677820 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.27 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 3.JUN.2020 15:21:50	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.09 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.17 dBm 5.3056840 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.31 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 3.JUN.2020 15:25:01	

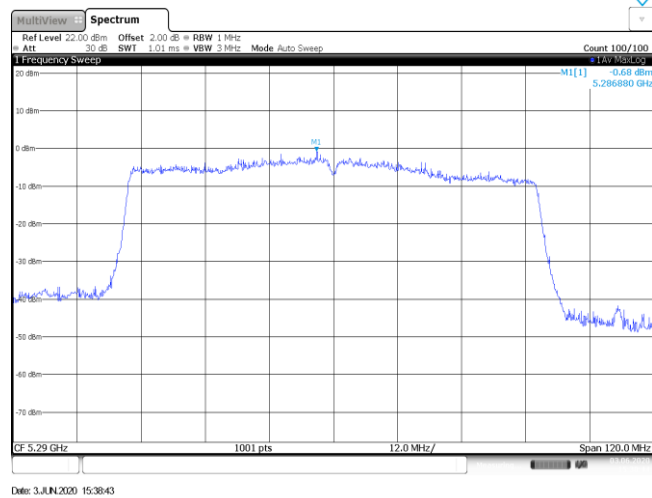
Band II

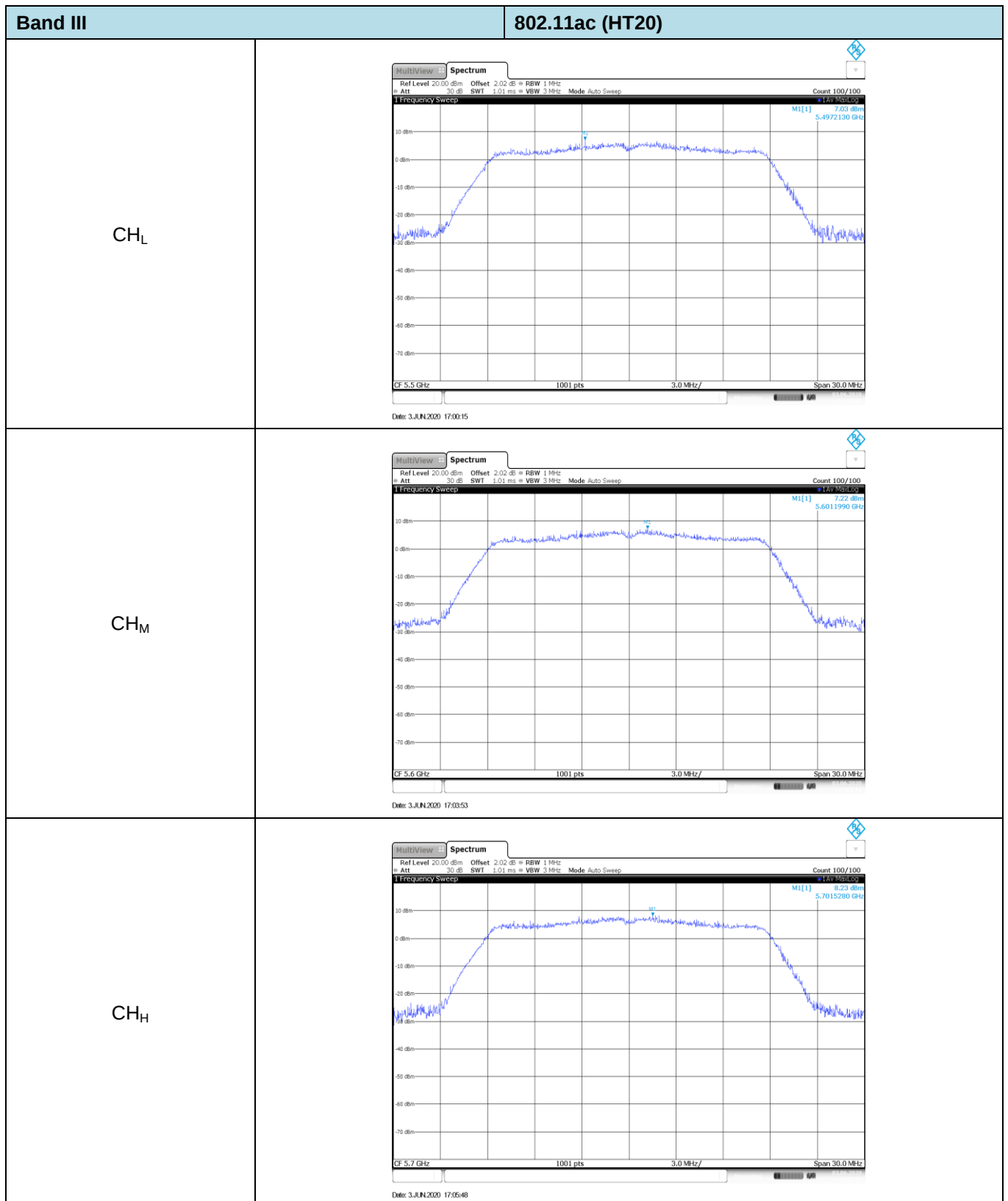
802.11n (HT40)

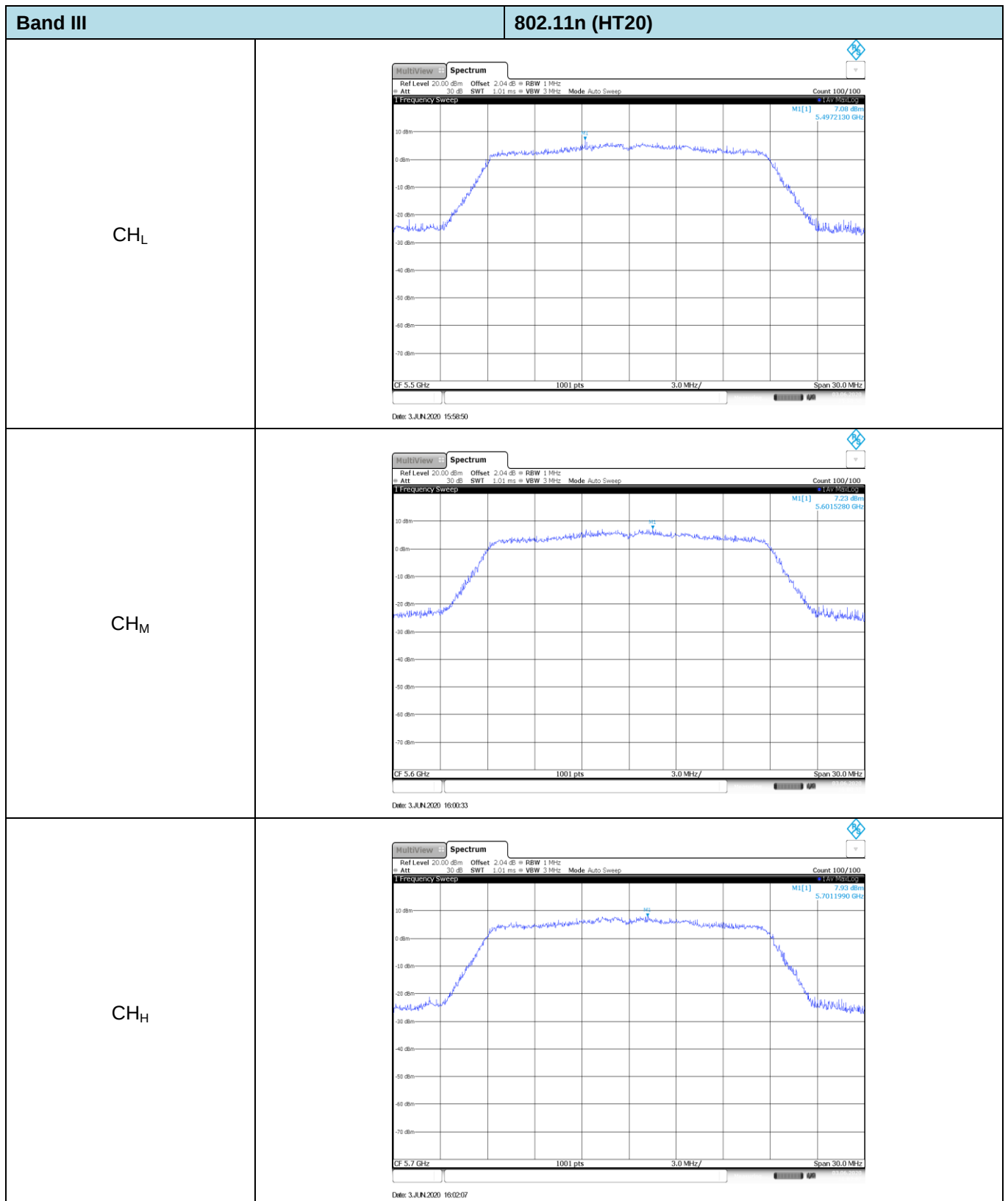
CH_LCH_H

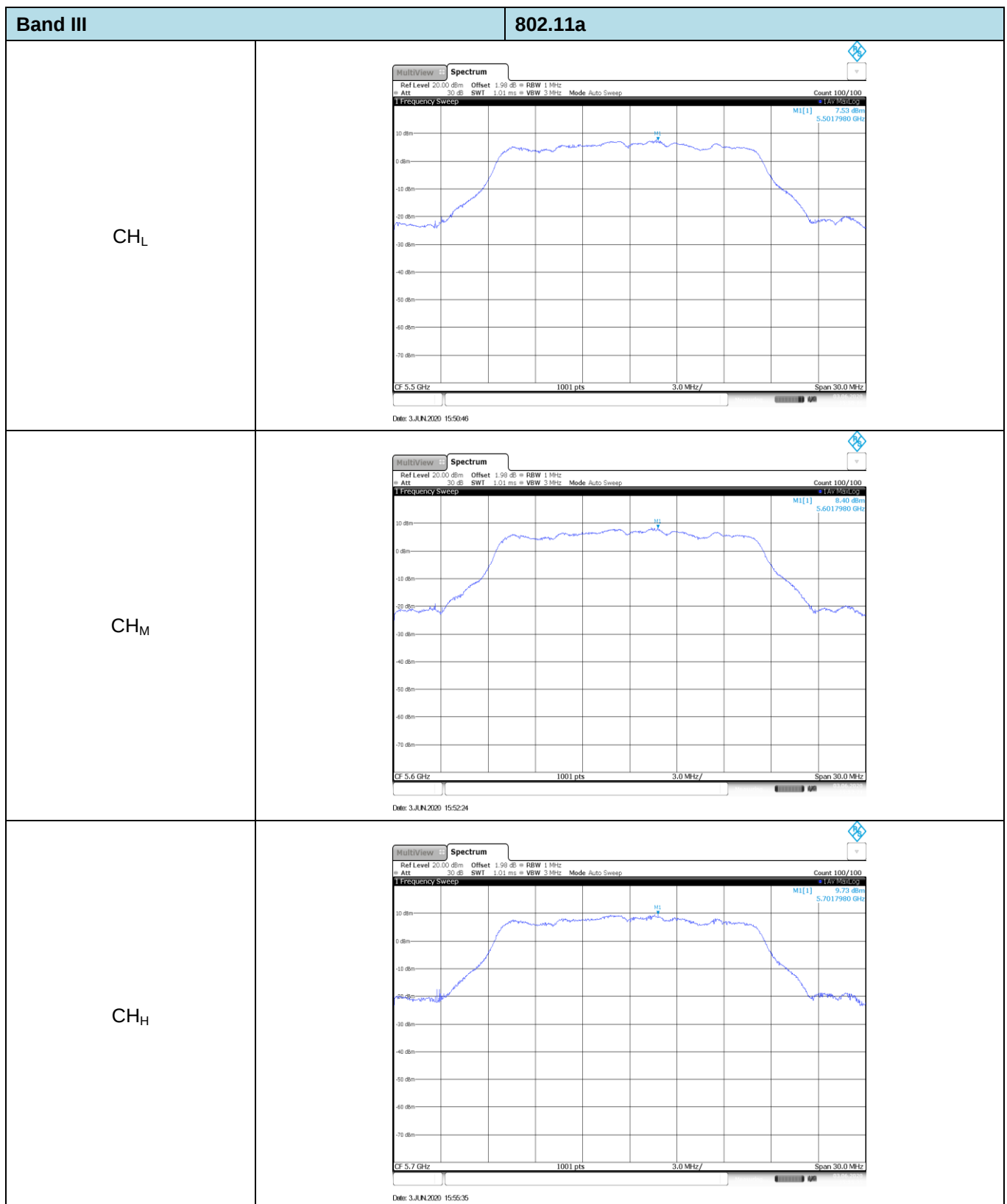
Band II

802.11ac (HT80)

CH_M

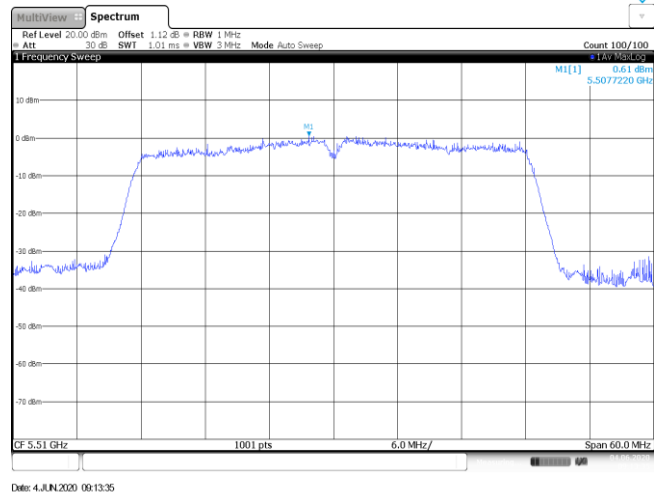
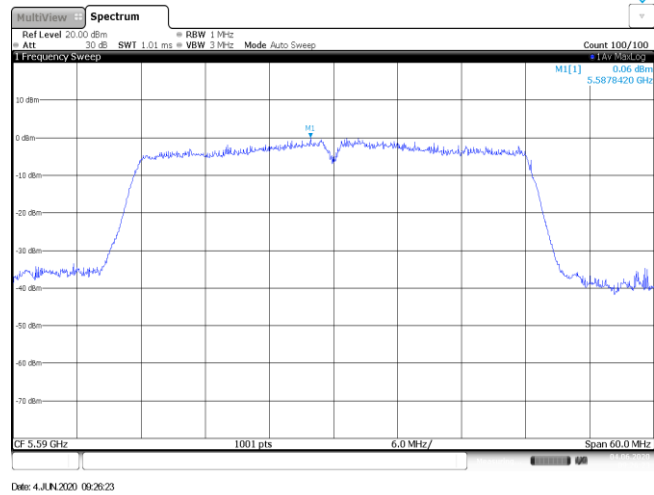
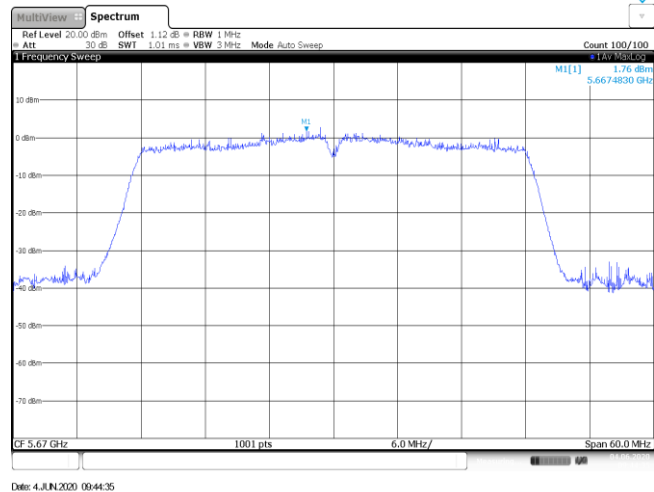






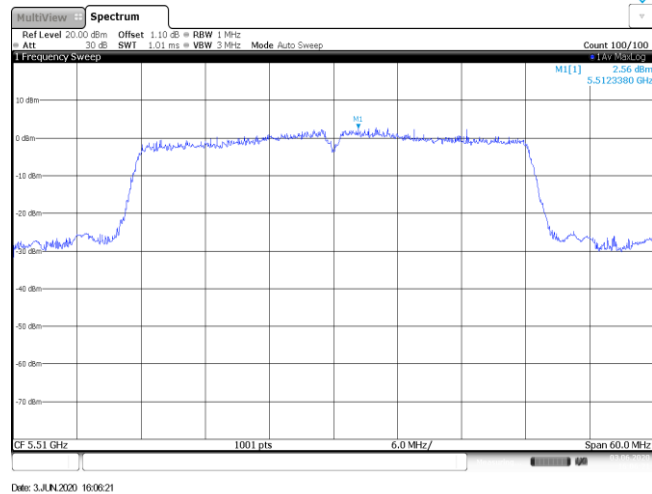
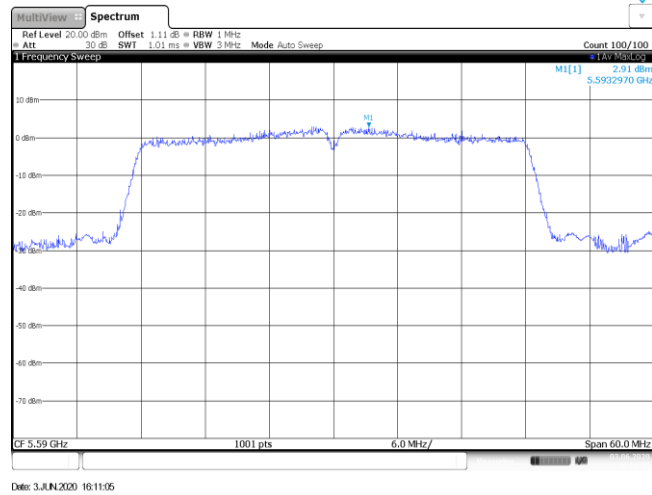
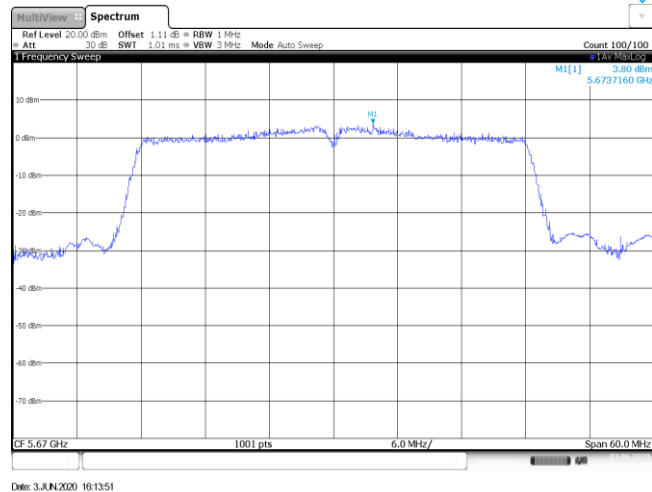
Band III

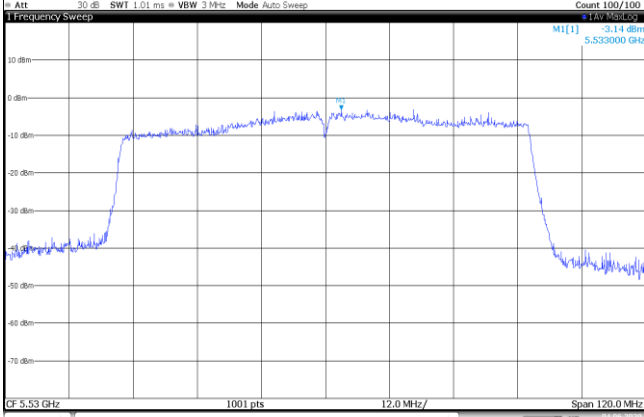
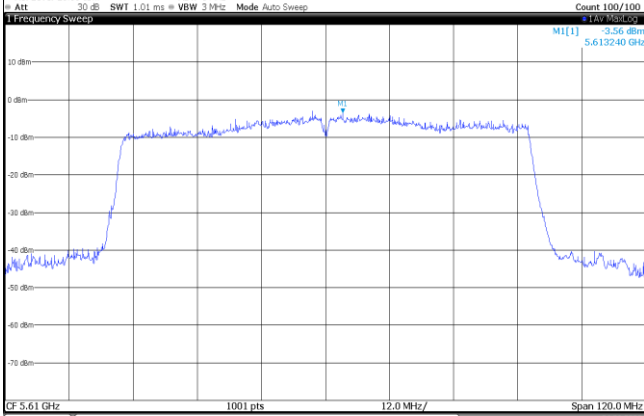
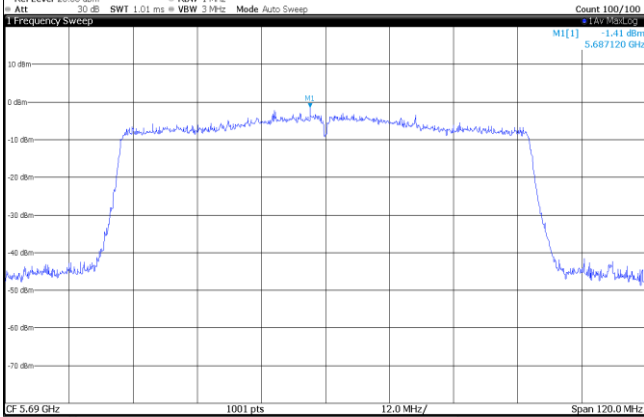
802.11ac (HT40)

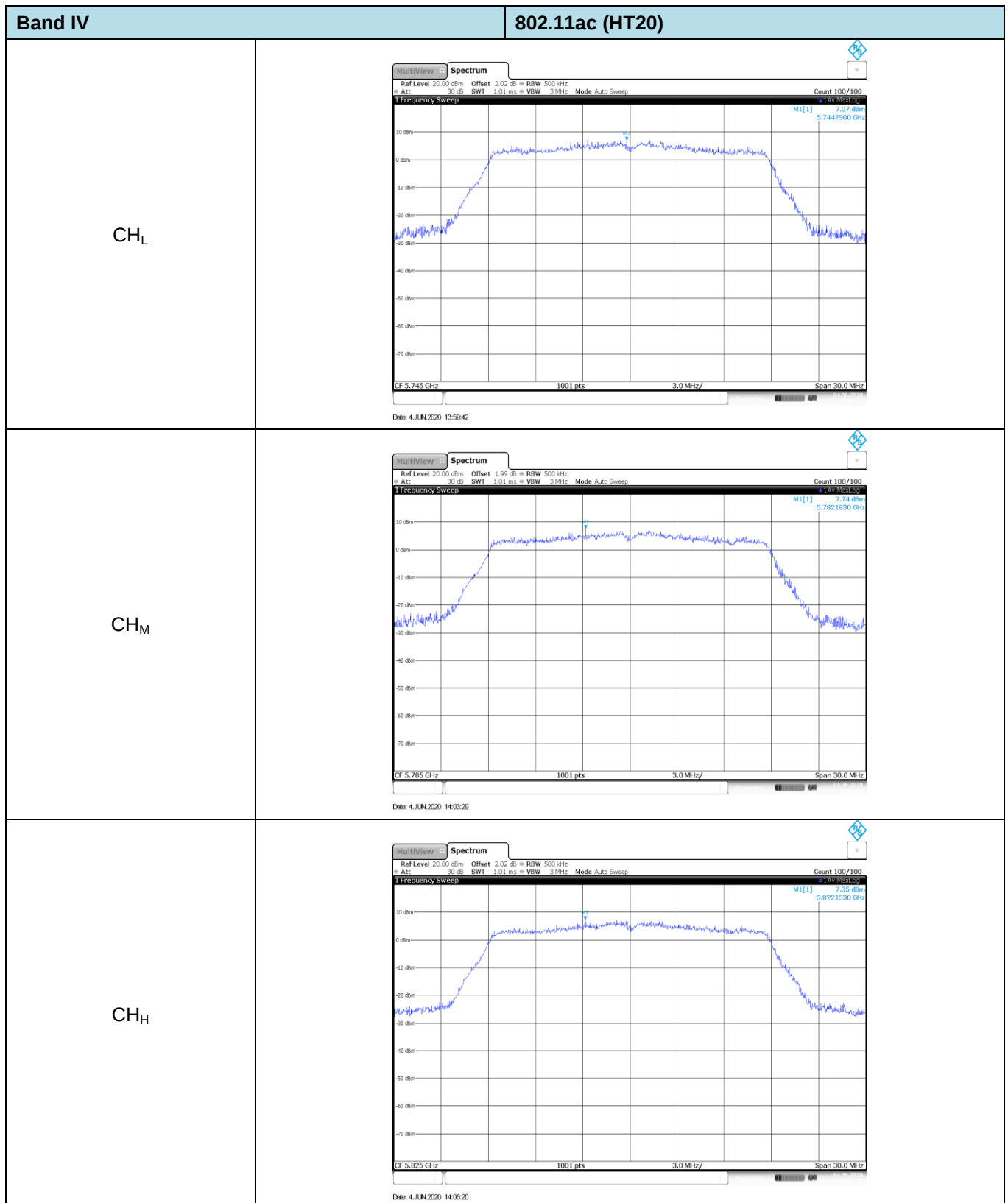
CH_LCH_MCH_H

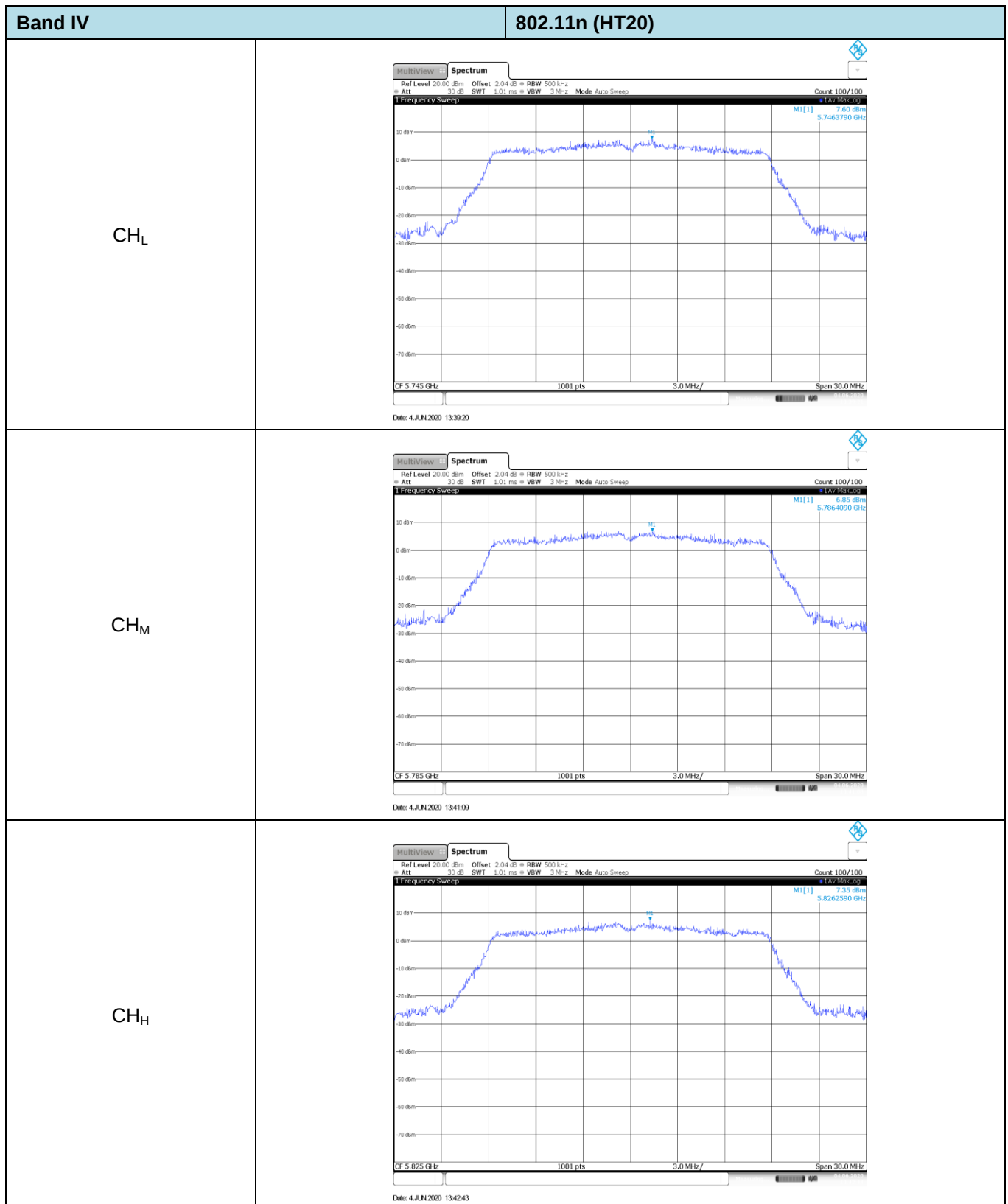
Band III

802.11n (HT40)

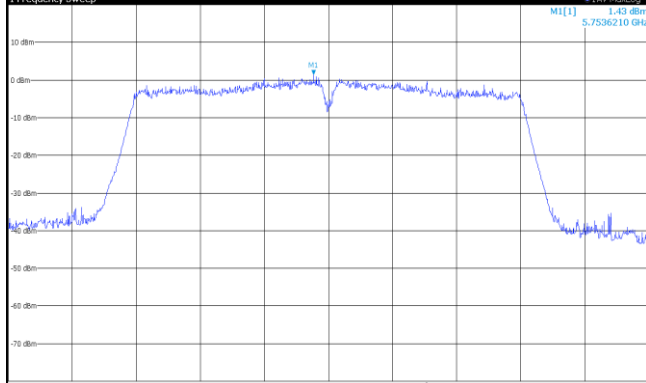
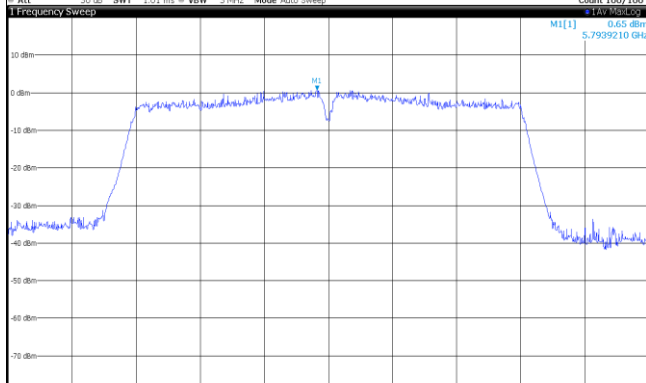
CH_LCH_MCH_H

Band III		802.11ac (HT80)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -3.14 dBm 5.530000 GHz  CF 5.53 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 4 JUN 2020 09:52:12		
CH _M	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -3.56 dBm 5.613240 GHz  CF 5.61 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 4 JUN 2020 09:58:51		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] -1.41 dBm 5.687120 GHz  CF 5.69 GHz 1001 pts 12.0 MHz/ Span 120.0 MHz Date: 4 JUN 2020 10:08:53		



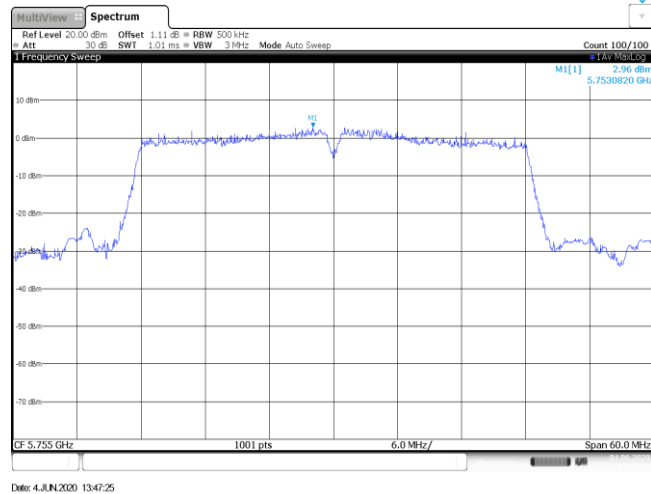
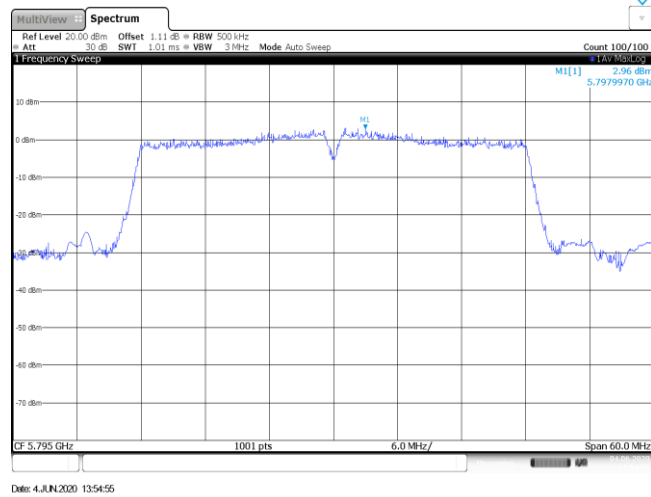


Band IV		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.99 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.745410 GHz CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 4 JUN 2020 11:40:18	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.99 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.7864090 GHz CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 4 JUN 2020 13:25:15	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.99 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 5.8243410 GHz CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 4 JUN 2020 13:26:55	

Band IV		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.12 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 1.43 dBm 5.7536210 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 4 JUN 2020 14:13:47	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.12 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] 0.65 dBm 5.7939210 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm  CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 4 JUN 2020 14:19:45	

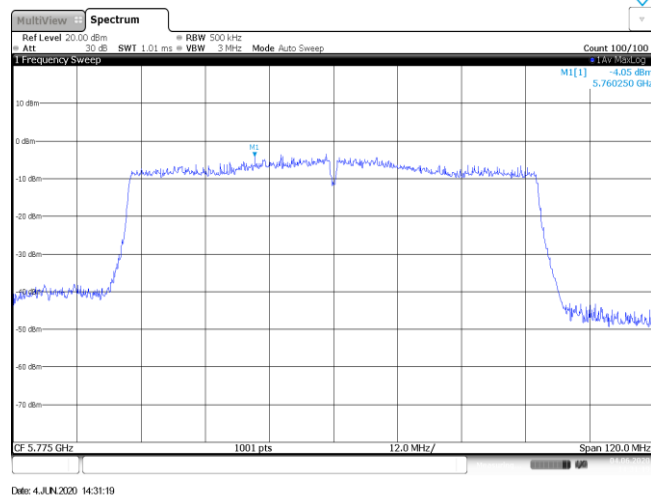
Band IV

802.11n (HT40)

CH_LCH_H

Band IV

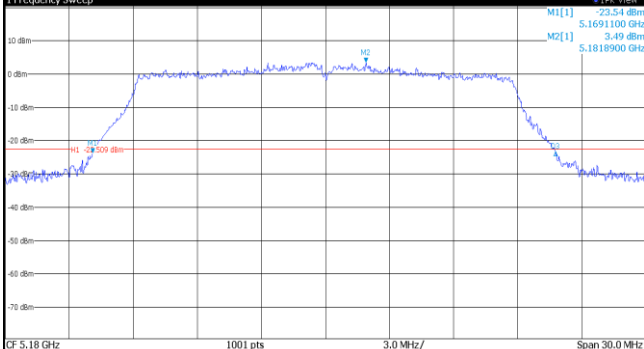
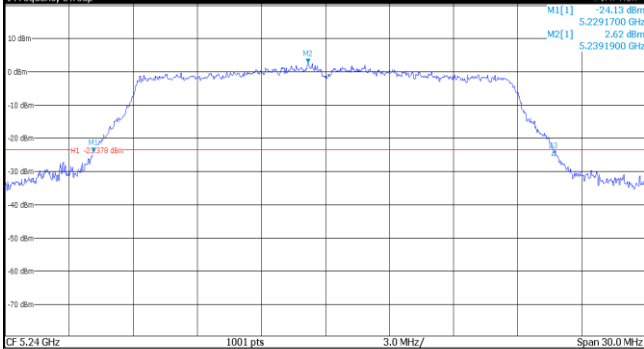
802.11ac (HT80)

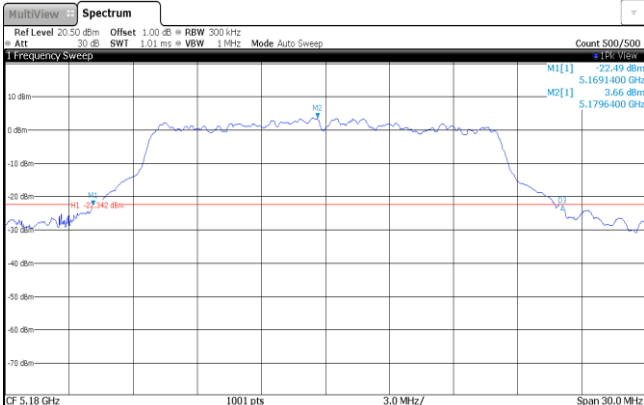
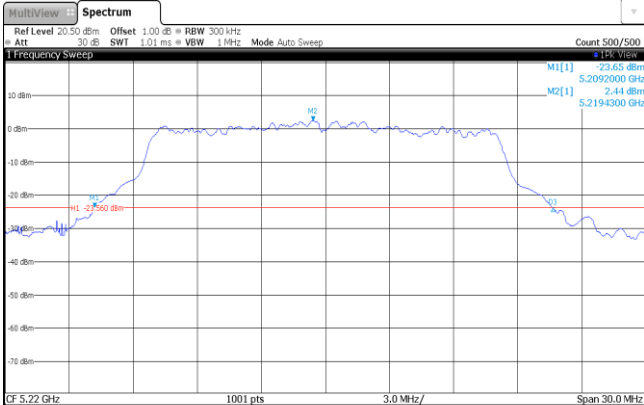
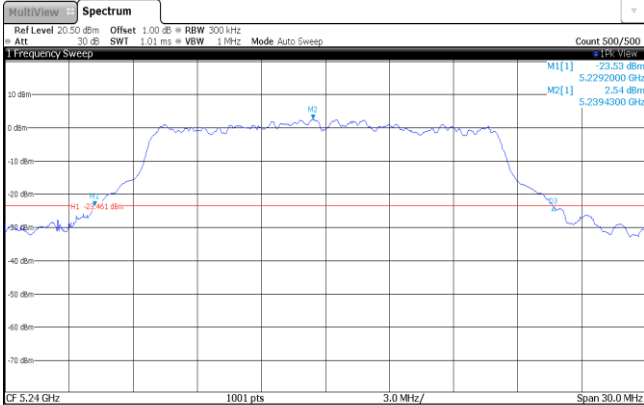
CH_M

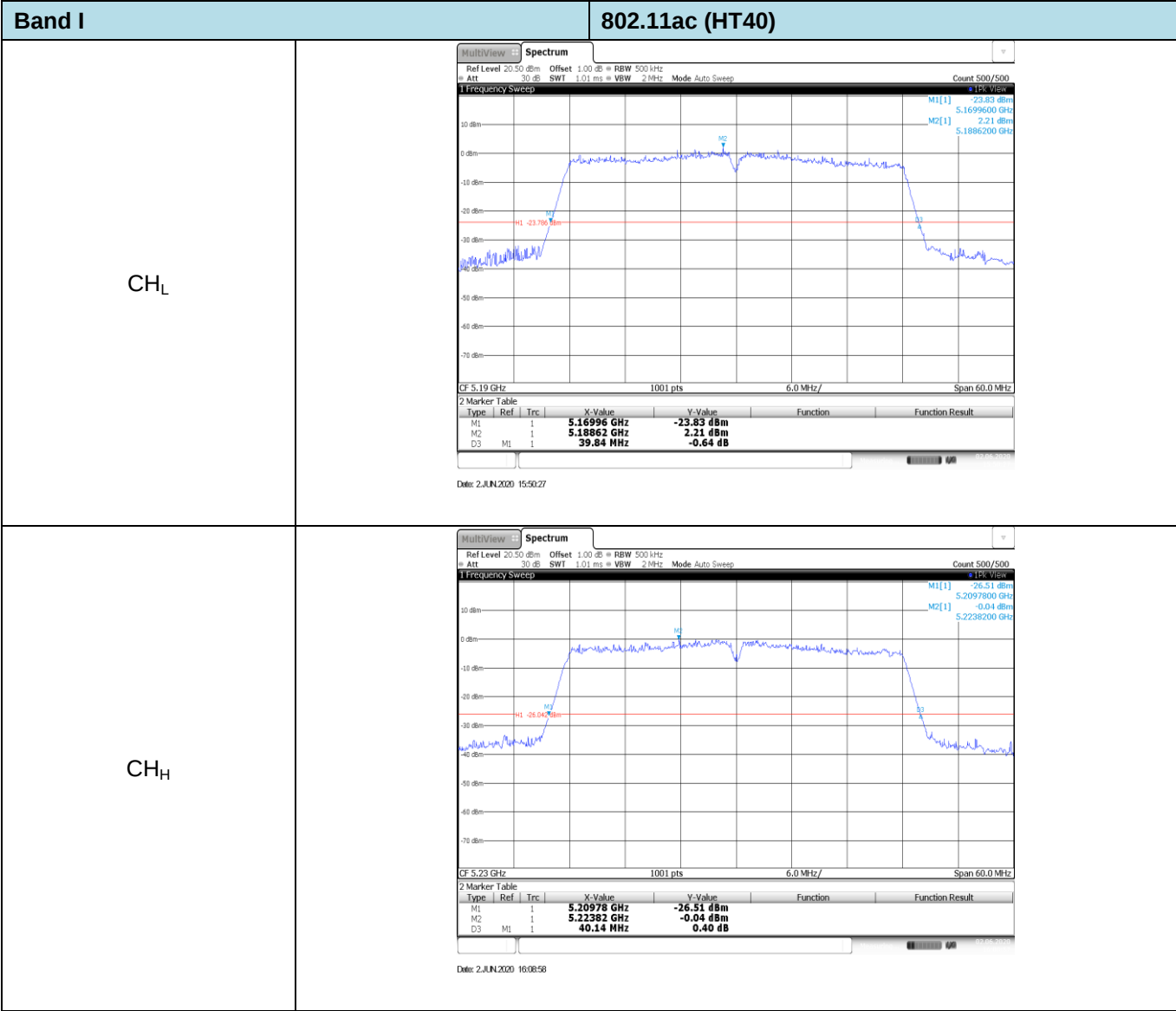
Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	21.66	Pass
			CH _M	21.45	
			CH _H	21.51	
		802.11n	CH _L	21.48	Pass
			CH _M	21.60	
			CH _H	21.48	
		802.11a	CH _L	21.96	Pass
			CH _M	21.45	
			CH _H	21.48	
	40	802.11ac	CH _L	39.84	Pass
			CH _H	40.14	
		802.11n	CH _L	39.60	Pass
			CH _H	39.84	
	80	802.11ac	CH _M	81.36	Pass
II	20	802.11ac	CH _L	21.54	Pass
			CH _M	21.45	
			CH _H	21.51	
		802.11n	CH _L	21.60	Pass
			CH _M	21.57	
			CH _H	21.57	
		802.11a	CH _L	21.96	Pass
			CH _M	21.60	
			CH _H	21.60	
	40	802.11ac	CH _L	39.72	Pass
			CH _H	39.84	
		802.11n	CH _L	39.60	Pass
			CH _H	39.66	
	80	802.11ac	CH _M	80.88	Pass

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11ac	CH _L	21.75	Pass
			CH _M	21.78	
			CH _H	21.66	
		802.11n	CH _L	21.63	Pass
			CH _M	21.90	
			CH _H	21.60	
		802.11a	CH _L	21.66	Pass
			CH _M	21.39	
			CH _H	21.48	
	40	802.11ac	CH _L	40.02	Pass
			CH _M	39.84	
			CH _H	39.90	
		802.11n	CH _L	40.44	Pass
			CH _M	40.02	
			CH _H	39.84	
	80	802.11ac	CH _L	81.36	Pass
			CH _M	81.72	
			CH _H	81.12	

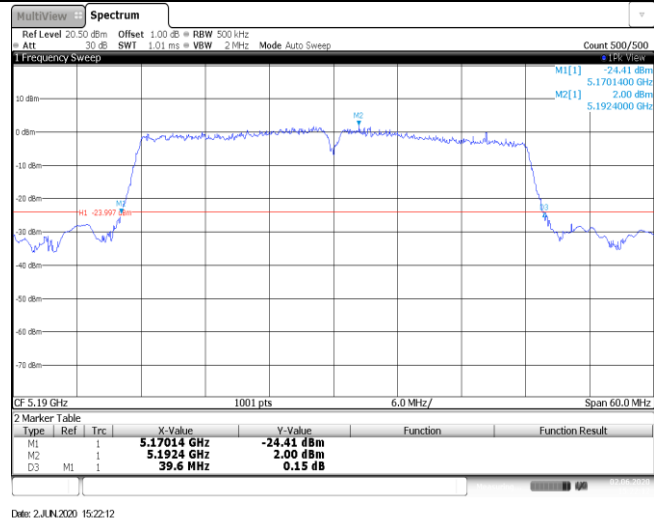
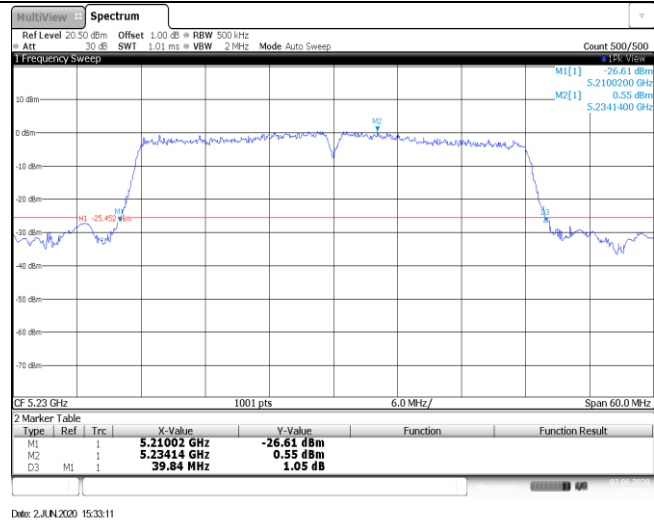
Band I		802.11ac (HT20)																											
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.18 GHz1001 pts3.0 MHz/Span 30.0 MHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</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>5.16911 GHz</td><td>-23.54 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.18189 GHz</td><td>3.49 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.66 MHz</td><td>0.28 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:38:15	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16911 GHz	-23.54 dBm			M2	1		5.18189 GHz	3.49 dBm			D3	M1	1	21.66 MHz	0.28 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.16911 GHz	-23.54 dBm																									
M2	1		5.18189 GHz	3.49 dBm																									
D3	M1	1	21.66 MHz	0.28 dB																									
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.22 GHz1001 pts3.0 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>5.20923 GHz</td><td>-23.59 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.21868 GHz</td><td>2.69 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.45 MHz</td><td>-0.02 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:41:58	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20923 GHz	-23.59 dBm			M2	1		5.21868 GHz	2.69 dBm			D3	M1	1	21.45 MHz	-0.02 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.20923 GHz	-23.59 dBm																									
M2	1		5.21868 GHz	2.69 dBm																									
D3	M1	1	21.45 MHz	-0.02 dB																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.24 GHz1001 pts3.0 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>5.22917 GHz</td><td>-24.13 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.23919 GHz</td><td>2.62 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.51 MHz</td><td>0.27 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:48:23	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22917 GHz	-24.13 dBm			M2	1		5.23919 GHz	2.62 dBm			D3	M1	1	21.51 MHz	0.27 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.22917 GHz	-24.13 dBm																									
M2	1		5.23919 GHz	2.62 dBm																									
D3	M1	1	21.51 MHz	0.27 dB																									

Band I		802.11a																												
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.18 GHz1001 pts3.0 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>5.16914 GHz</td><td>-22.49 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17964 GHz</td><td>3.66 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.96 MHz</td><td>-0.13 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:07:59		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16914 GHz	-22.49 dBm			M2	1		5.17964 GHz	3.66 dBm			D3	M1	1	21.96 MHz	-0.13 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.16914 GHz	-22.49 dBm																										
M2	1		5.17964 GHz	3.66 dBm																										
D3	M1	1	21.96 MHz	-0.13 dB																										
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.22 GHz1001 pts3.0 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>5.2092 GHz</td><td>-23.65 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.21943 GHz</td><td>2.44 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.45 MHz</td><td>-0.07 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:10:09		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.2092 GHz	-23.65 dBm			M2	1		5.21943 GHz	2.44 dBm			D3	M1	1	21.45 MHz	-0.07 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.2092 GHz	-23.65 dBm																										
M2	1		5.21943 GHz	2.44 dBm																										
D3	M1	1	21.45 MHz	-0.07 dB																										
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.24 GHz1001 pts3.0 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>5.2292 GHz</td><td>-23.53 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.23943 GHz</td><td>2.54 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>21.48 MHz</td><td>-0.04 dB</td><td></td><td></td></tr></table> Date: 2.JUN.2020 15:12:25		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.2292 GHz	-23.53 dBm			M2	1		5.23943 GHz	2.54 dBm			D3	M1	1	21.48 MHz	-0.04 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.2292 GHz	-23.53 dBm																										
M2	1		5.23943 GHz	2.54 dBm																										
D3	M1	1	21.48 MHz	-0.04 dB																										



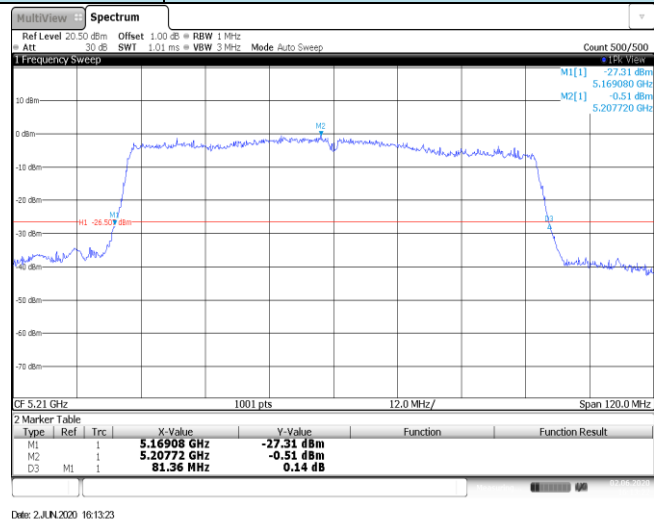
Band I

802.11n (HT40)

CH_LCH_H

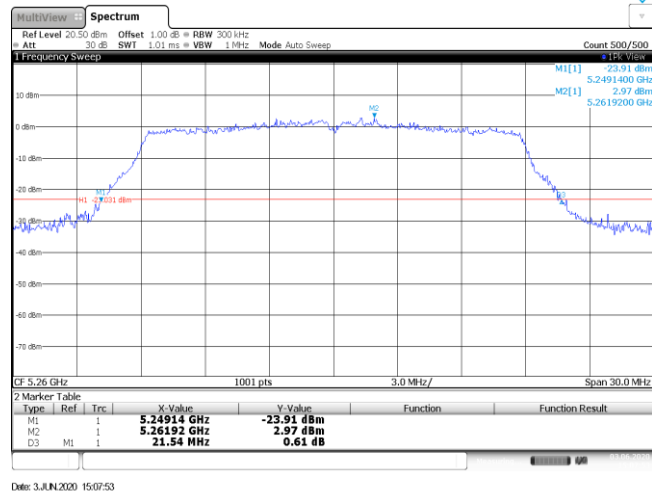
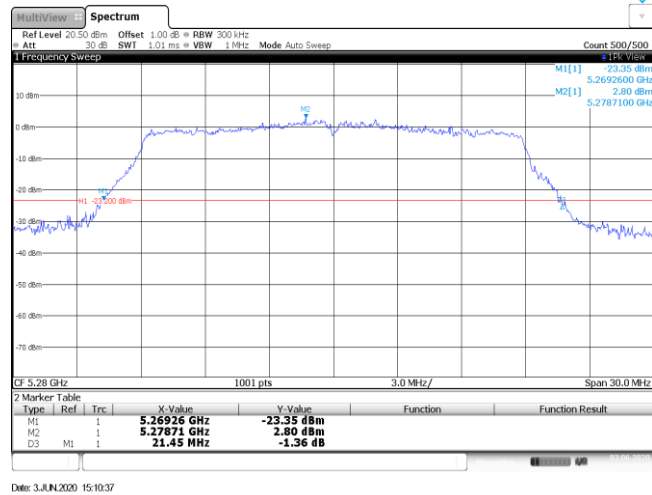
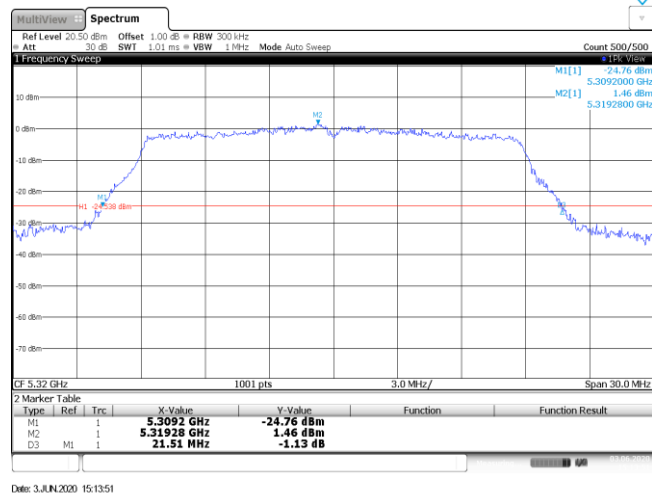
Band I

802.11ac (HT80)

CH_M

Band II

802.11ac (HT20)

CH_LCH_MCH_H

Band II

802.11n (HT20)

CH_L

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz
Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

M1[1] -24.48 dBm
M2[1] -2.70 dBm
5.2491700 GHz
5.2583200 GHz

CF 5.26 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		5.24917 GHz	-24.48 dBm		
M2	1		5.25832 GHz	-2.70 dBm		
D3	M1	1	21.6 MHz	0.41 dB		

Date: 2 JUN 2020 17:06:41

CH_M

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz
Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

M1[1] -24.00 dBm
M2[1] -2.28 dBm
5.2691100 GHz
5.2792200 GHz

CF 5.26 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		5.26911 GHz	-24.00 dBm		
M2	1		5.27922 GHz	-2.28 dBm		
D3	M1	1	21.57 MHz	-0.09 dB		

Date: 2 JUN 2020 17:09:10

CH_H

MultiView Spectrum

Ref Level 20.50 dBm Offset 1.00 dB BW 300 kHz
Att 30 dB SW 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500

1 Frequency Sweep

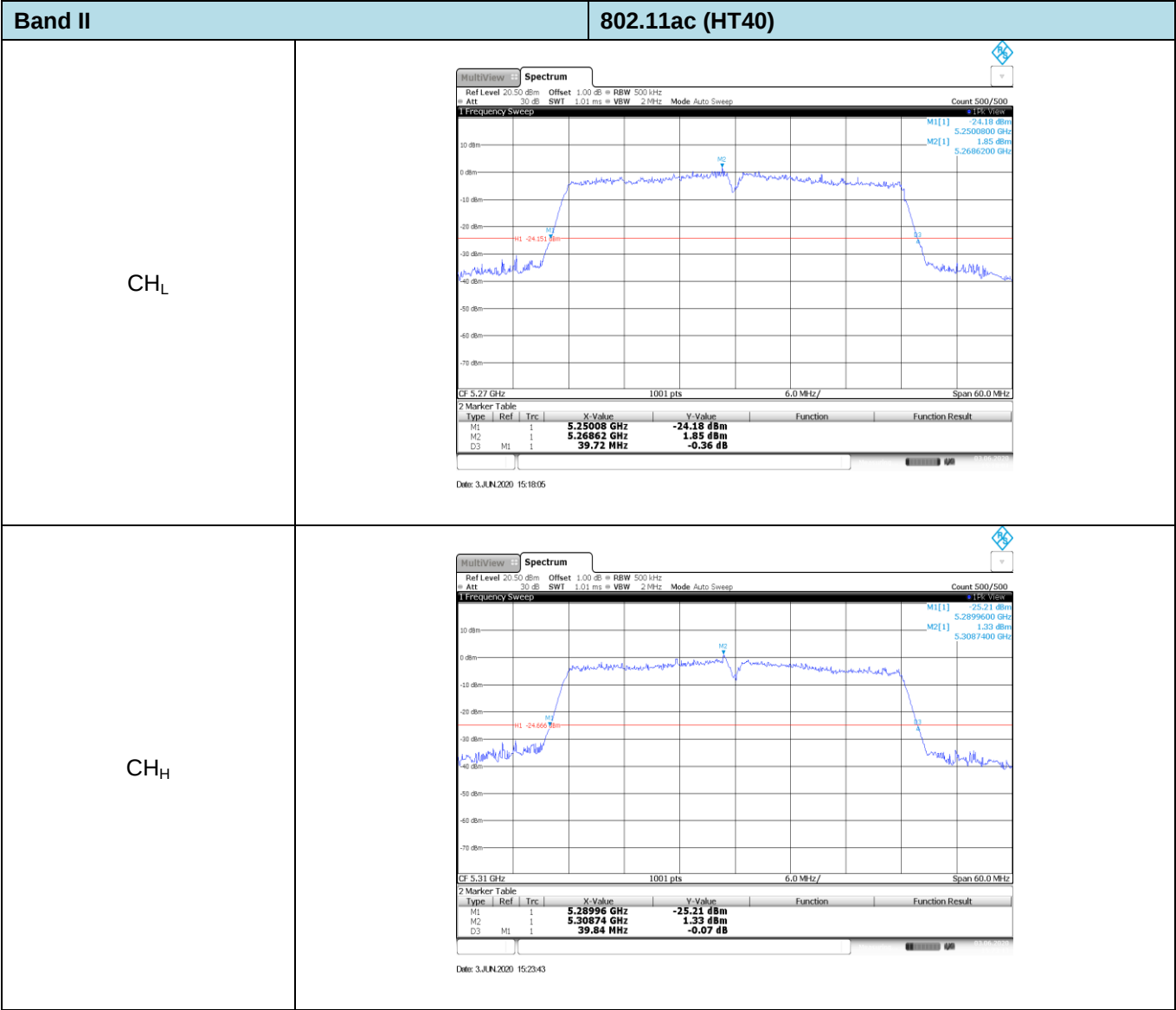
M1[1] -24.76 dBm
M2[1] -1.46 dBm
5.3092000 GHz
5.3183500 GHz

CF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz

2 Marker Table

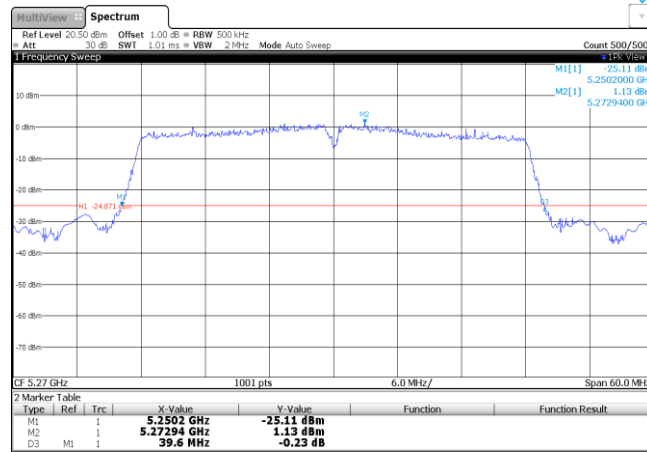
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.3092 GHz	-24.76 dBm		
M2	1		5.31835 GHz	-1.46 dBm		
D3	M1	1	21.57 MHz	-0.49 dB		

Date: 2 JUN 2020 17:11:56

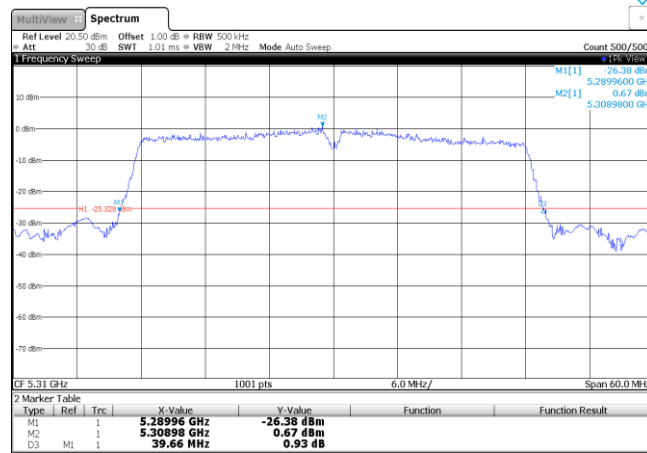


Band II

802.11n (HT40)

CH_L

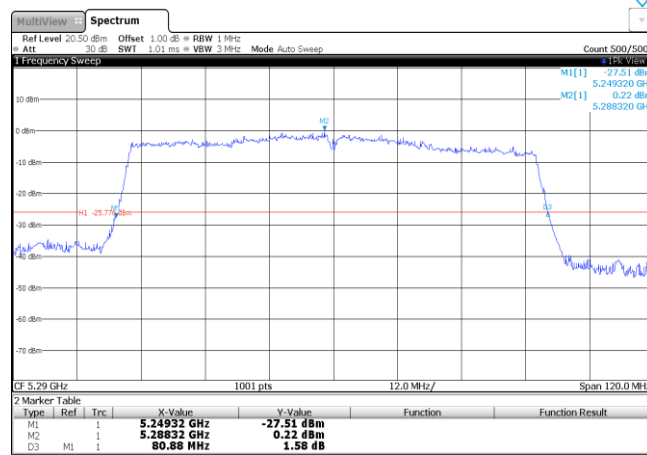
Date: 3.JUN.2020 14:51:51

CH_H

Date: 3.JUN.2020 14:57:04

Band II

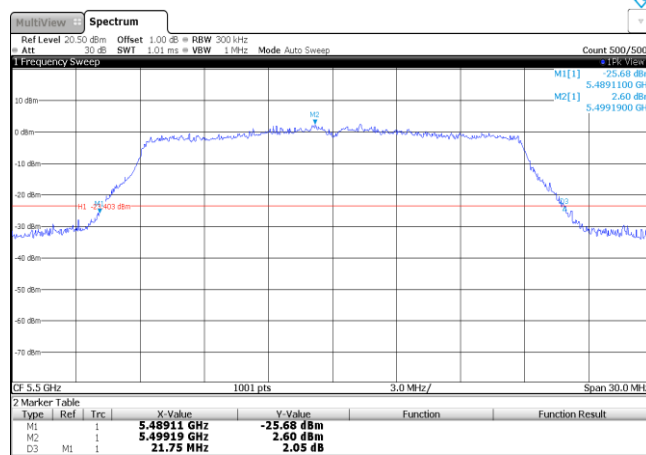
802.11ac (HT80)

CH_M

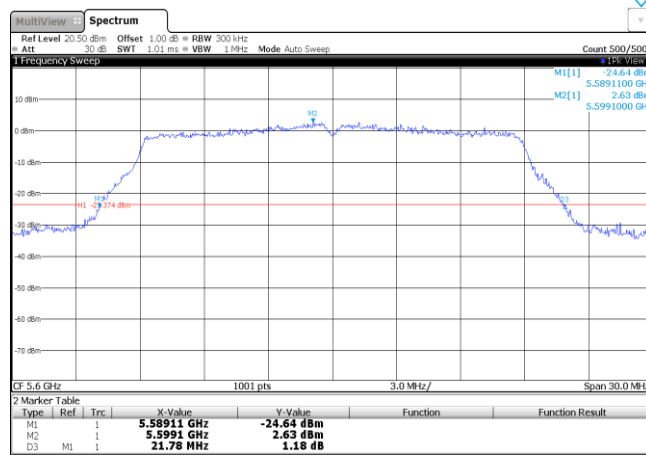
Date: 3.JUN.2020 15:36:05

Band III

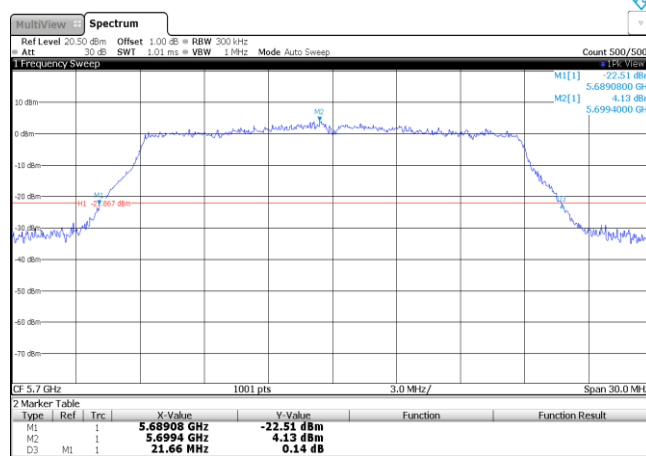
802.11ac (HT20)

$$\text{CH}_L$$


Date: 3 JUN 2020 16:59:01

$$\text{CH}_M$$


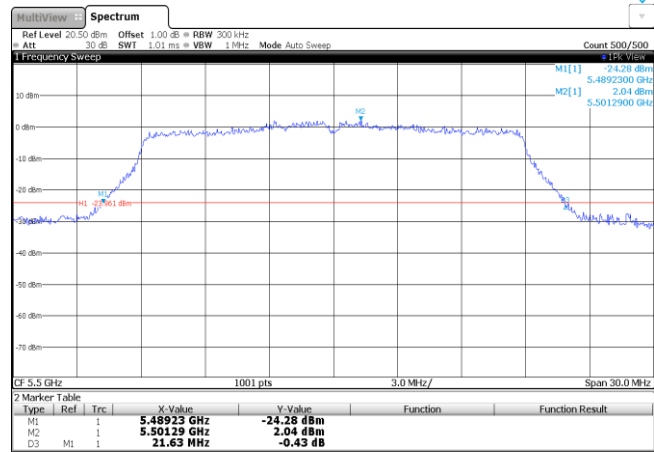
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$$\text{CH}_H$$


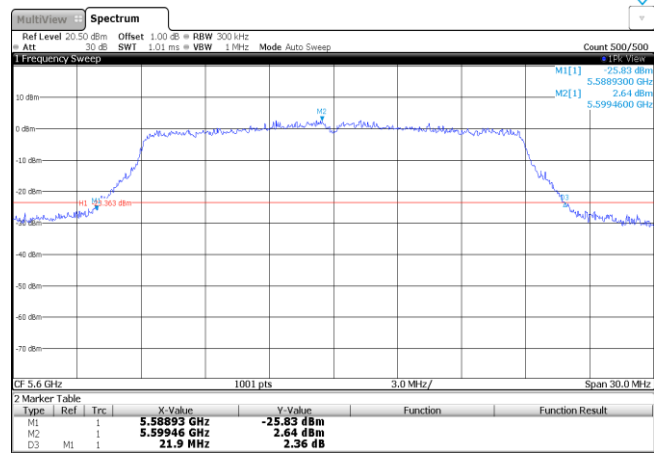
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Band III

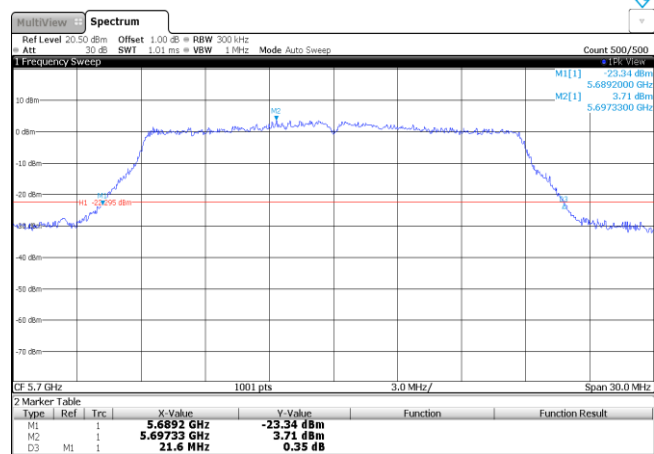
802.11n (HT20)

CH_L

Date: 3.JUN.2020 15:58:16

CH_M

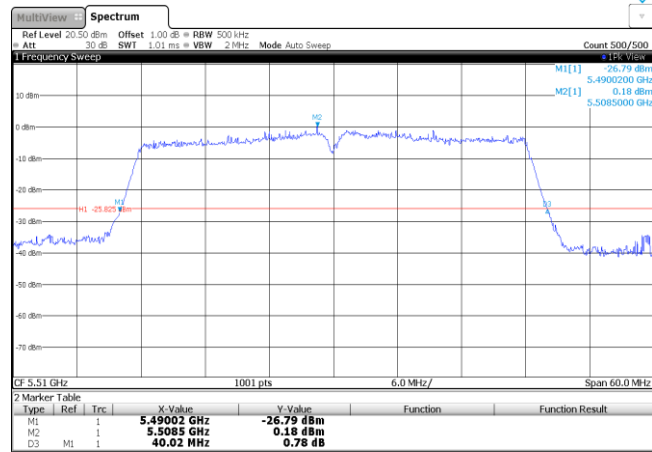
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CH_H

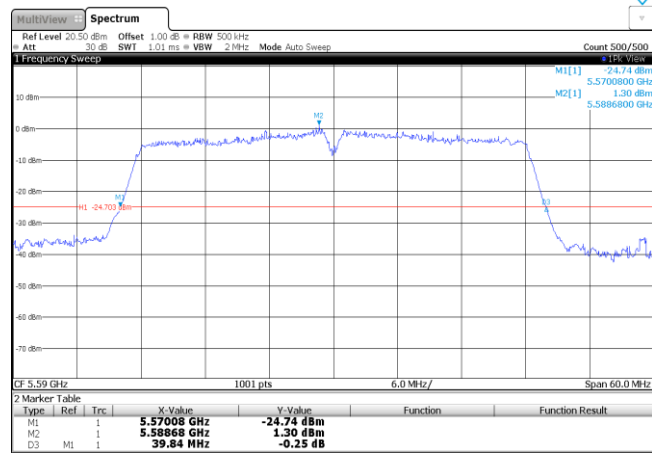
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Band III

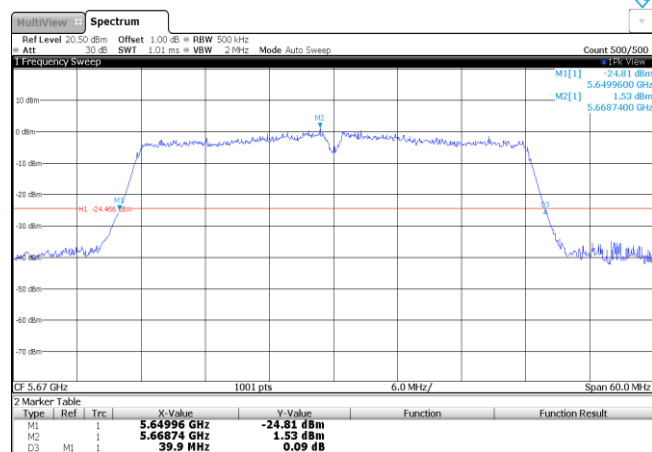
802.11ac (HT40)

CH_L

Date: 4 JUN 2020 09:10:15

CH_M

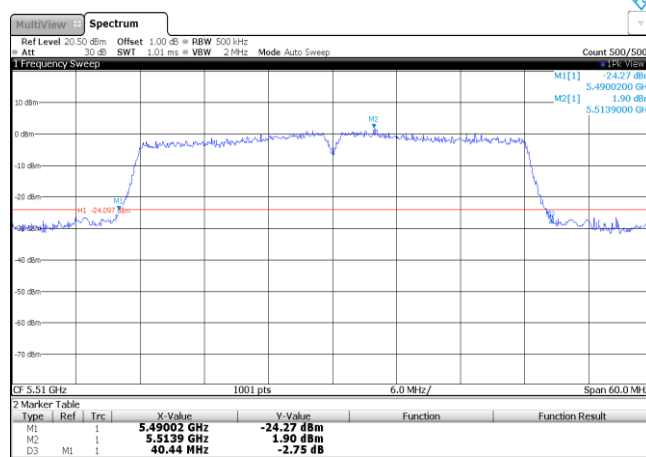
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CH_H

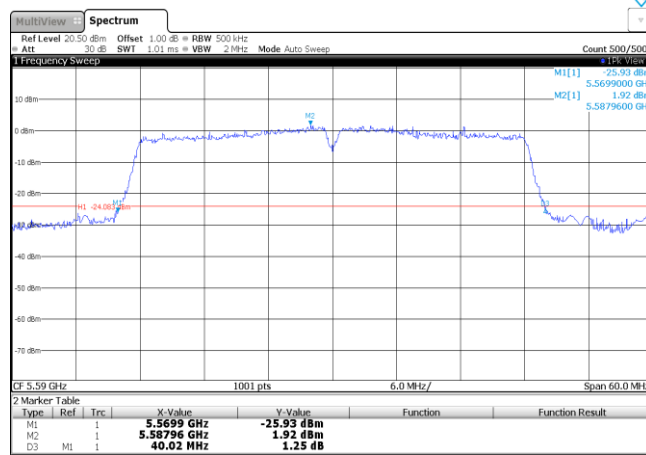
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Band III

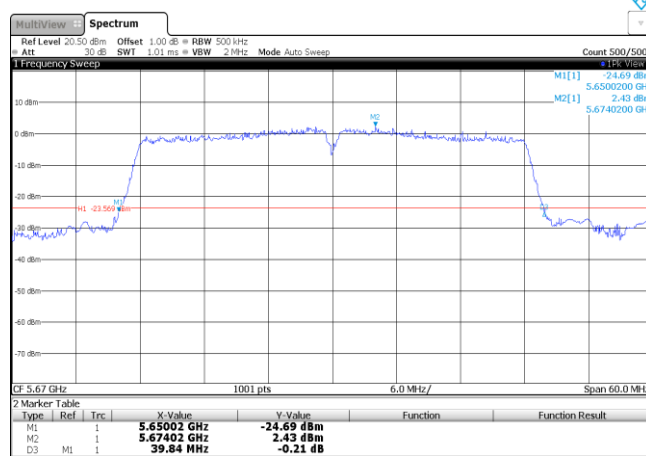
802.11n (HT40)

$$\text{CH}_L$$


Date: 3-JUN-2020 16:05:07

$$\text{CH}_M$$


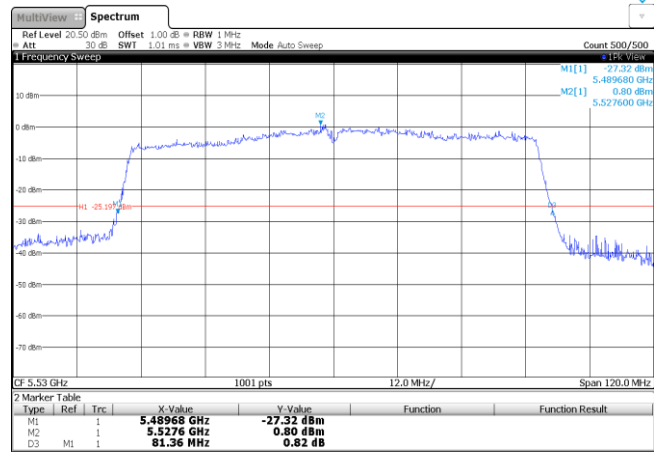
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$$\text{CH}_H$$


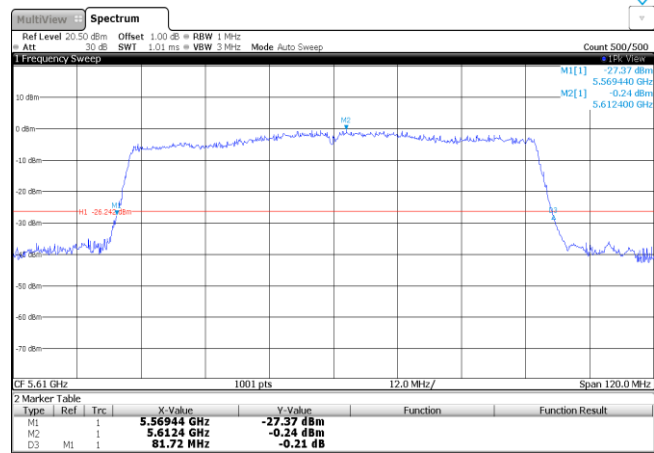
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Band III

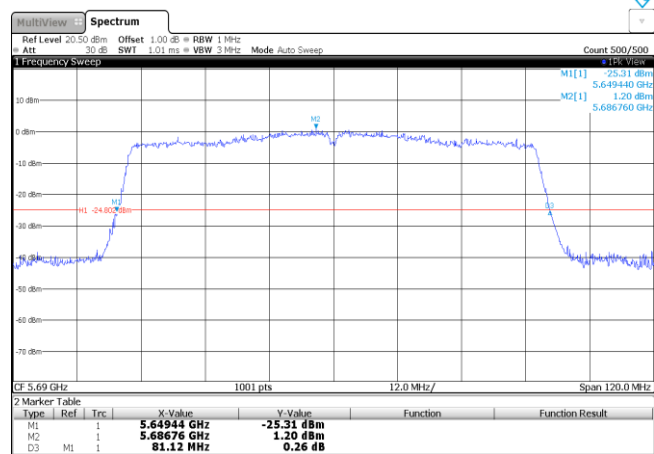
802.11ac (HT80)

CH_L

Date: 4 JUN 2020 00:48:56

CH_M

Date: 4 JUN 2020 00:54:58

CH_H

Date: 4 JUN 2020 10:06:49

Appendix D: 99% Occupy bandwidth

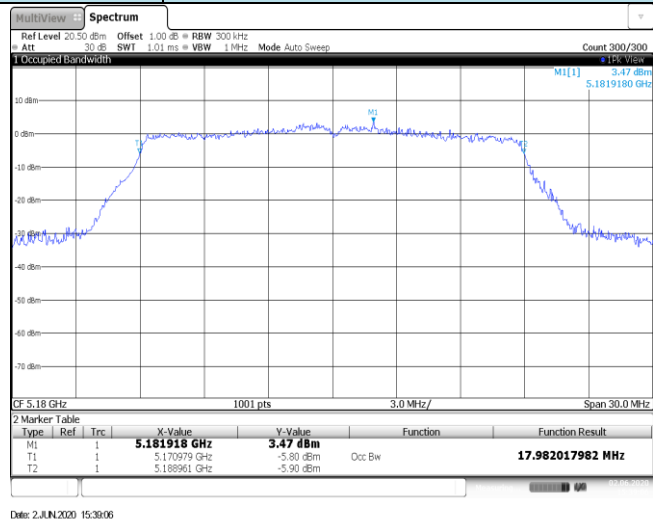
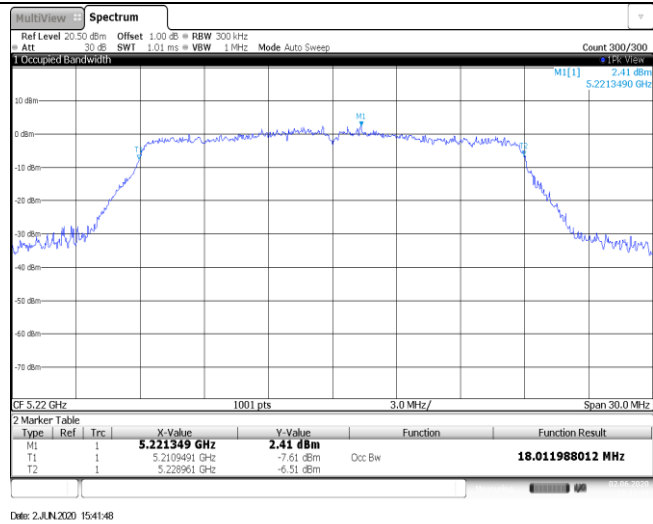
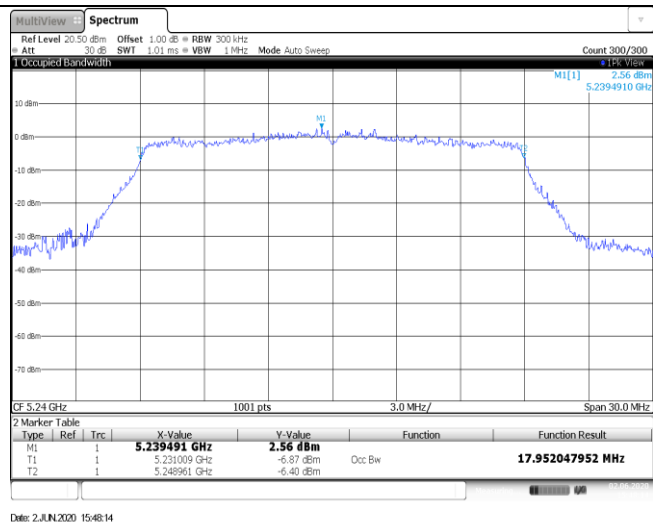
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.98	Pass
			CH _M	18.01	
			CH _H	17.95	
		802.11n	CH _L	17.92	Pass
			CH _M	17.92	
			CH _H	17.89	
		802.11a	CH _L	16.63	Pass
			CH _M	16.60	
			CH _H	16.60	
	40	802.11ac	CH _L	36.44	Pass
			CH _H	8.87	
		802.11n	CH _L	36.32	Pass
			CH _H	36.26	
	80	802.11ac	CH _M	75.41	Pass
II	20	802.11ac	CH _L	17.95	Pass
			CH _M	17.95	
			CH _H	17.95	
		802.11n	CH _L	17.89	Pass
			CH _M	17.92	
			CH _H	17.89	
		802.11a	CH _L	16.63	Pass
			CH _M	16.63	
			CH _H	16.63	
	40	802.11ac	CH _L	36.38	Pass
			CH _H	36.50	
		802.11n	CH _L	36.26	Pass
			CH _H	36.20	
	80	802.11ac	CH _M	75.41	Pass

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
III	20	802.11ac	CH _L	17.98	Pass
			CH _M	17.98	
			CH _H	17.98	
		802.11n	CH _L	17.95	Pass
			CH _M	17.95	
			CH _H	17.89	
		802.11a	CH _L	16.69	Pass
			CH _M	16.66	
			CH _H	16.63	
	40	802.11ac	CH _L	36.44	Pass
			CH _M	36.44	
			CH _H	36.32	
		802.11n	CH _L	36.32	Pass
			CH _M	36.32	
			CH _H	36.32	
	80	802.11ac	CH _L	75.52	Pass
			CH _M	75.41	
			CH _H	75.52	

Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.98	Pass
			CH _M	18.01	
			CH _H	17.98	
		802.11n	CH _L	17.92	Pass
			CH _M	17.98	
			CH _H	17.95	
		802.11a	CH _L	16.63	Pass
			CH _M	16.63	
			CH _H	16.66	
	40	802.11ac	CH _L	36.38	Pass
			CH _H	36.38	
		802.11n	CH _L	36.21	Pass
			CH _H	36.30	
	80	802.11ac	CH _M	75.64	Pass

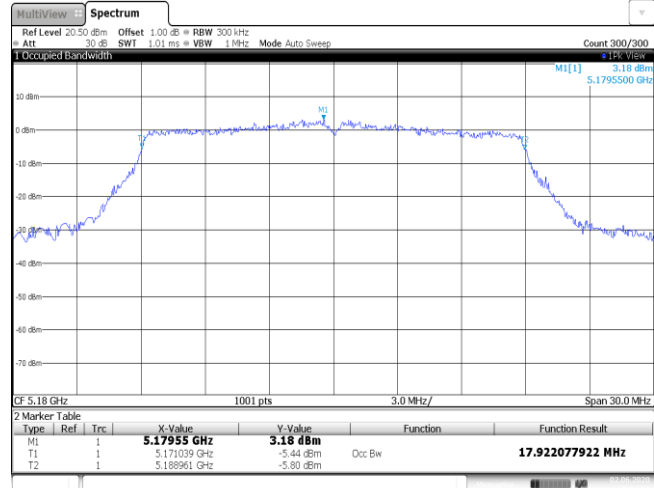
Band I

802.11ac (HT20)

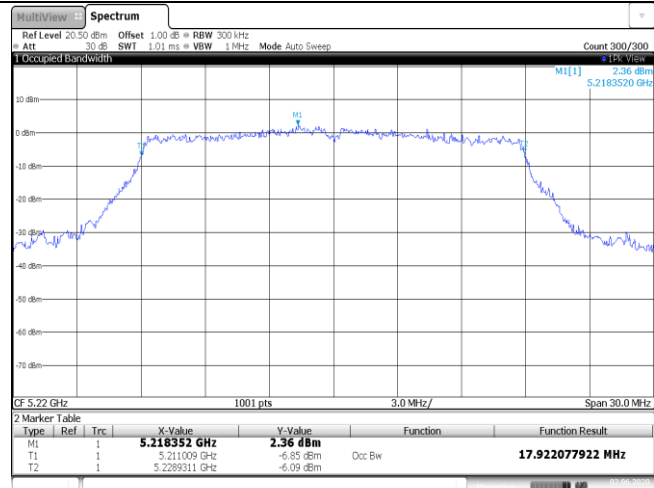
CH_LCH_MCH_H

Band I

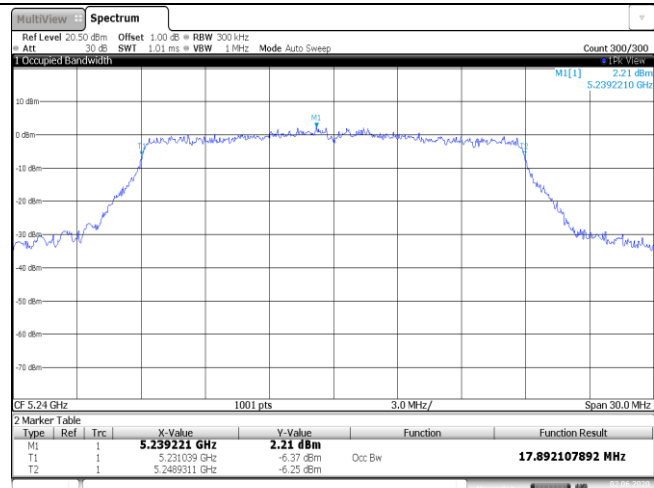
802.11n (HT20)

CH_L

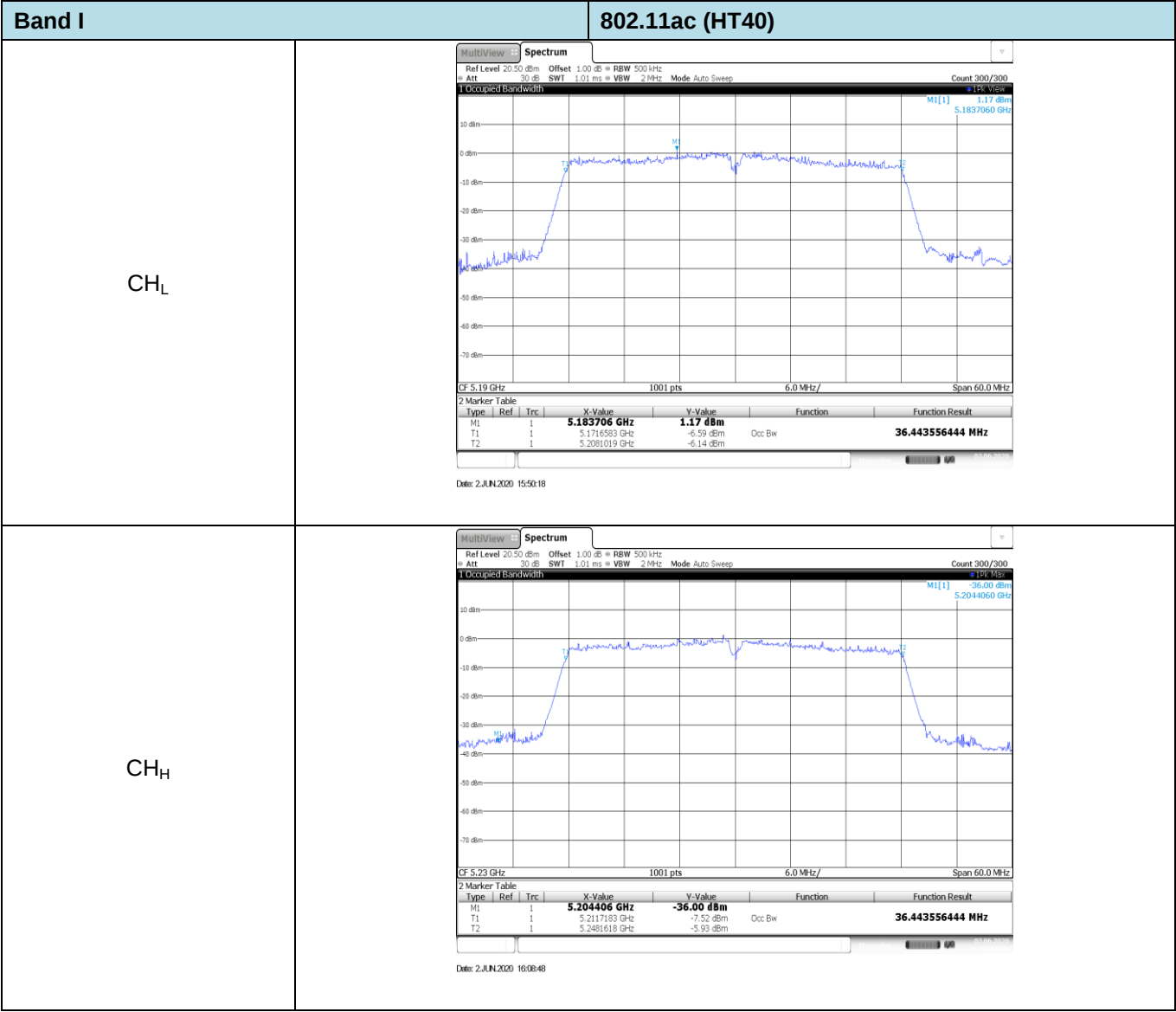
Date: 2.JUN.2020 15:14:45

CH_M

Date: 2.JUN.2020 15:17:51

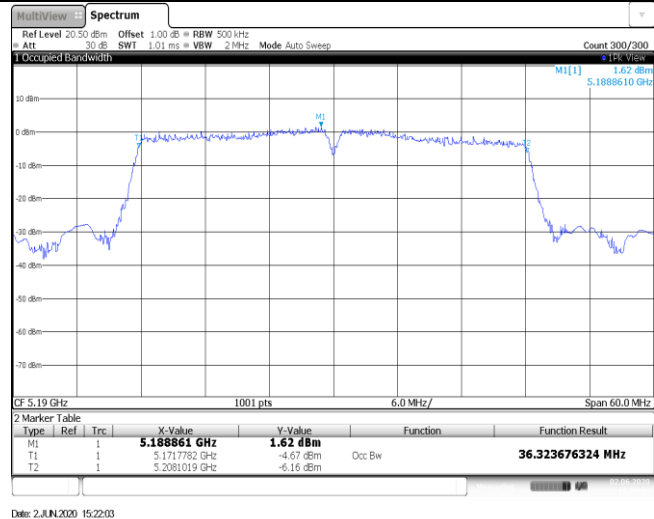
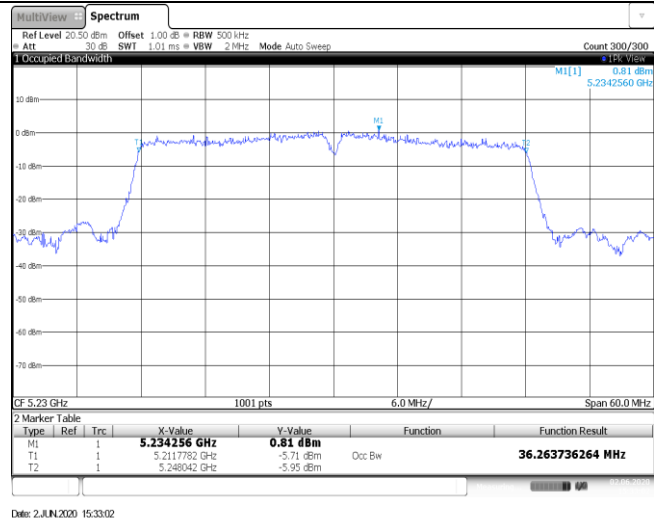
CH_H

Date: 2.JUN.2020 15:19:44



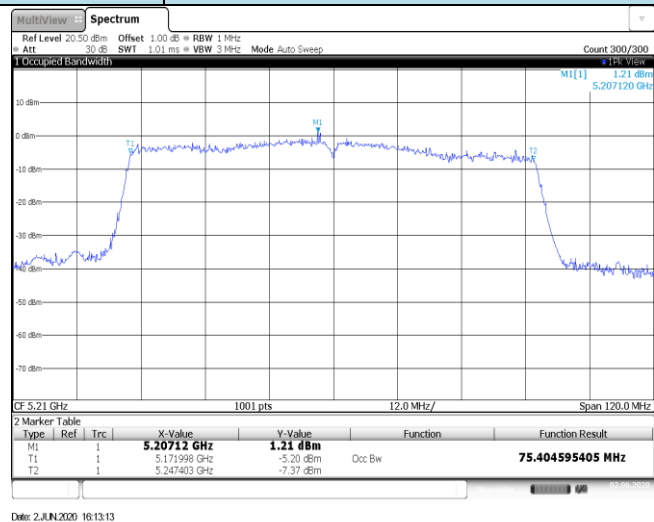
Band I

802.11n (HT40)

CH_LCH_H

Band I

802.11ac (HT80)

CH_M

Band II		802.11ac (HT20)																											
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 2.65 dBm 5.2594910 GHz CF 5.26 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>5.259491 GHz</td><td>2.65 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.250979 GHz</td><td>-6.81 dBm</td><td>Occ Bw</td><td>17.952047952 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.2689311 GHz</td><td>-4.00 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 15:07:44	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.259491 GHz	2.65 dBm			T1	1		5.250979 GHz	-6.81 dBm	Occ Bw	17.952047952 MHz	T2	1		5.2689311 GHz	-4.00 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.259491 GHz	2.65 dBm																									
T1	1		5.250979 GHz	-6.81 dBm	Occ Bw	17.952047952 MHz																							
T2	1		5.2689311 GHz	-4.00 dBm																									
CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 2.65 dBm 5.2794910 GHz CF 5.28 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>5.279491 GHz</td><td>2.65 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.270979 GHz</td><td>-7.62 dBm</td><td>Occ Bw</td><td>17.952047952 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.2889311 GHz</td><td>-6.73 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 15:10:28	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.279491 GHz	2.65 dBm			T1	1		5.270979 GHz	-7.62 dBm	Occ Bw	17.952047952 MHz	T2	1		5.2889311 GHz	-6.73 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.279491 GHz	2.65 dBm																									
T1	1		5.270979 GHz	-7.62 dBm	Occ Bw	17.952047952 MHz																							
T2	1		5.2889311 GHz	-6.73 dBm																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1[1] 1.57 dBm 5.3194310 GHz CF 5.32 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>5.319431 GHz</td><td>1.57 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.310979 GHz</td><td>-7.06 dBm</td><td>Occ Bw</td><td>17.952047952 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.3289311 GHz</td><td>-6.89 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 15:13:41	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.319431 GHz	1.57 dBm			T1	1		5.310979 GHz	-7.06 dBm	Occ Bw	17.952047952 MHz	T2	1		5.3289311 GHz	-6.89 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.319431 GHz	1.57 dBm																									
T1	1		5.310979 GHz	-7.06 dBm	Occ Bw	17.952047952 MHz																							
T2	1		5.3289311 GHz	-6.89 dBm																									