

APPENDIX REPORT

Project No.	SHT1912068505EW	Radio Specification	WIFI 5G
Test sample No.	YPHT19120685043	Model No.	iData 50
Start test date	2019/12/31	Finish date	2019/12/31
Temperature	25°C	Humidity	50%
Test Engineer	Ximing Huang	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	Frequency stability	PASS

Appendix A: Maximum Conducted Output Power

Band	Bandwidth (MHz)	Type	Channel	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11ac	CH _L	17.86	24.00	Pass
			CH _M	18.94		
			CH _H	19.69		
		802.11n	CH _L	17.06	24.00	Pass
			CH _M	18.70		
			CH _H	19.35		
		802.11a	CH _L	18.98	24.00	Pass
			CH _M	19.90		
			CH _H	19.87		
	40	802.11ac	CH _L	18.26	24.00	Pass
			CH _H	19.75		
		802.11n	CH _L	18.21	24.00	Pass
			CH _H	19.29		
	80	802.11ac	CH _M	19.17	24.00	Pass
II	20	802.11ac	CH _L	19.23	24.00	Pass
			CH _M	20.03		
			CH _H	20.04		
		802.11n	CH _L	19.20	24.00	Pass
			CH _M	19.55		
			CH _H	20.12		
		802.11a	CH _L	19.55	24.00	Pass
			CH _M	20.15		
			CH _H	20.21		
	40	802.11ac	CH _L	19.52	24.00	Pass
			CH _H	20.06		
		802.11n	CH _L	19.51	24.00	Pass
			CH _H	20.11		
	80	802.11ac	CH _M	19.58	24.00	Pass

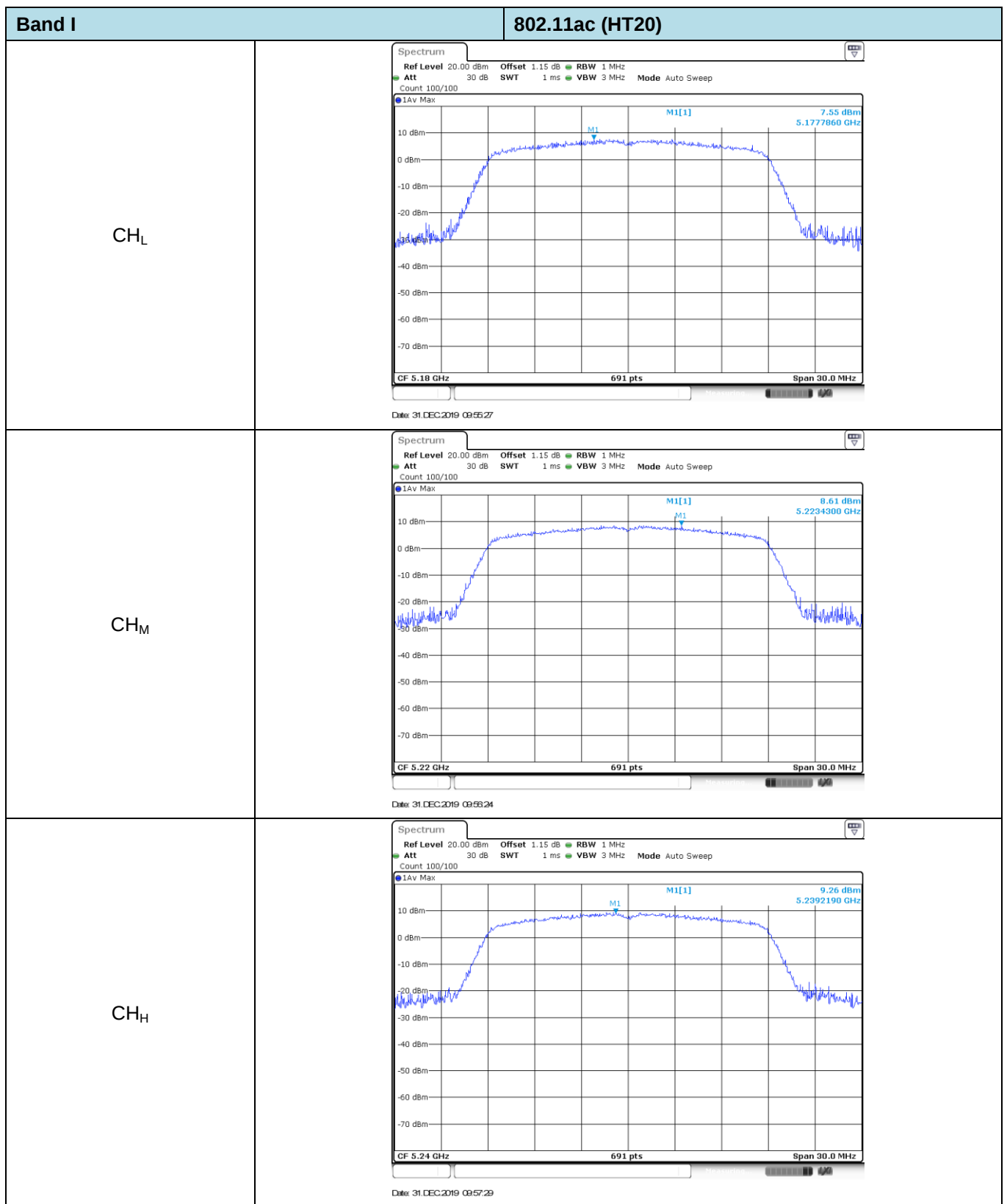
Band	Bandwidth (MHz)	Type	Channel	Conducted Output Power (dBm)	Limit (dBm)	Result
IV	20	802.11ac	CH _L	19.55	30.00	Pass
			CH _M	20.05		
			CH _H	19.98		
		802.11n	CH _L	19.87	30.00	Pass
			CH _M	20.00		
			CH _H	19.95		
		802.11a	CH _L	20.18	30.00	Pass
			CH _M	20.23		
			CH _H	20.26		
	40	802.11ac	CH _L	20.06	30.00	Pass
			CH _H	20.13		
		802.11n	CH _L	20.10	30.00	Pass
			CH _H	20.06		
	80	802.11ac	CH _M	19.93	30.00	Pass

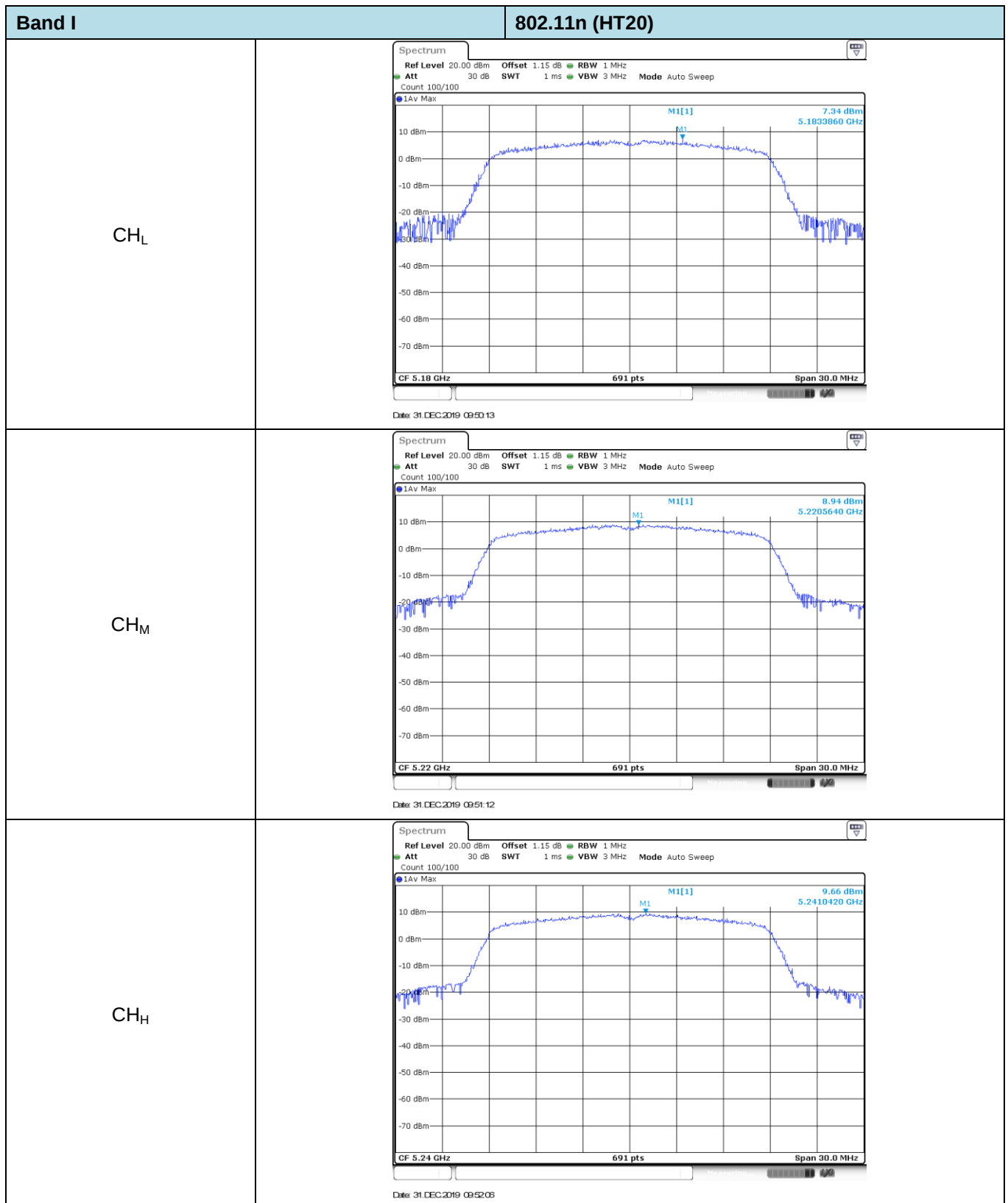
Appendix B: Maximum Power Spectral Density

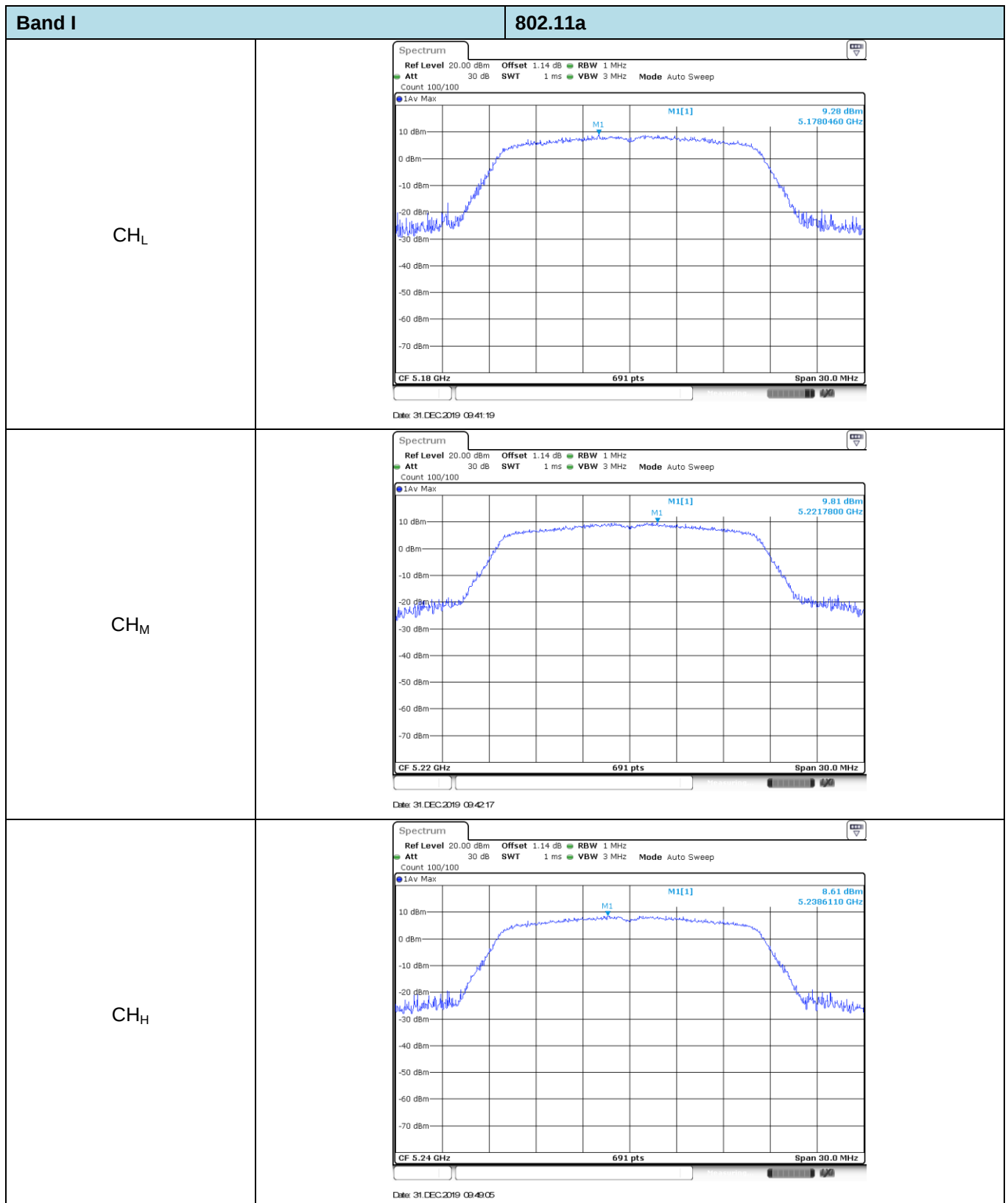
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11ac	CH _L	7.55	11.00	Pass
			CH _M	8.61		
			CH _H	9.26		
		802.11n	CH _L	7.34	11.00	Pass
			CH _M	8.94		
			CH _H	9.66		
		802.11a	CH _L	9.28	11.00	Pass
			CH _M	9.81		
			CH _H	8.61		
	40	802.11ac	CH _L	5.88	11.00	Pass
			CH _H	6.63		
		802.11n	CH _L	5.33	11.00	Pass
			CH _H	6.11		
	80	802.11ac	CH _M	3.20	11.00	Pass
II	20	802.11ac	CH _L	9.45	11.00	Pass
			CH _M	9.59		
			CH _H	10.13		
		802.11n	CH _L	8.86	11.00	Pass
			CH _M	9.69		
			CH _H	10.28		
		802.11a	CH _L	9.40	11.00	Pass
			CH _M	9.80		
			CH _H	10.19		
	40	802.11ac	CH _L	7.24	11.00	Pass
			CH _H	6.98		
		802.11n	CH _L	6.24	11.00	Pass
			CH _H	6.99		
	80	802.11ac	CH _M	3.23	11.00	Pass

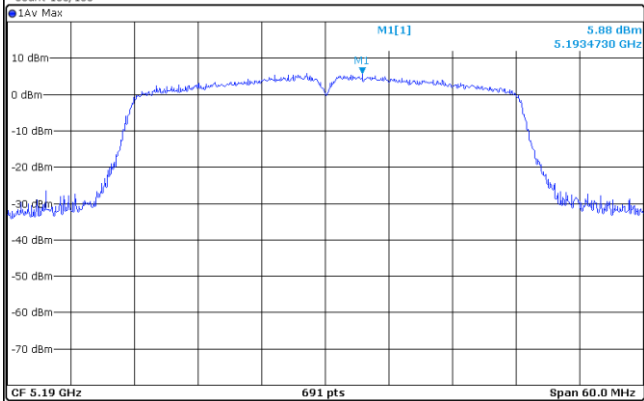
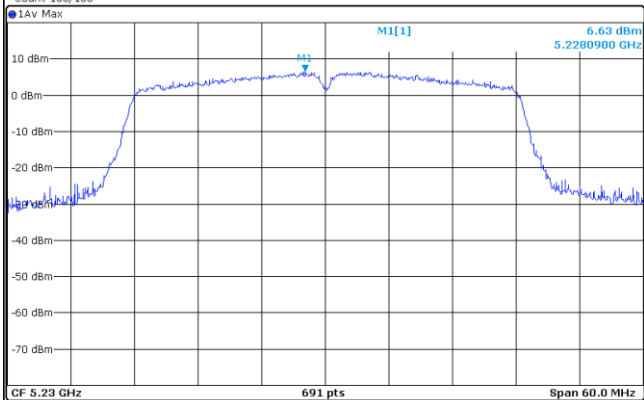
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/500kHz)	Limit (dBm/500KHz)	Result
IV	20	802.11ac	CH _L	8.59	30.00	Pass
			CH _M	8.97		
			CH _H	8.47		
		802.11n	CH _L	8.59	30.00	Pass
			CH _M	8.49		
			CH _H	8.28		
		802.11a	CH _L	8.62	30.00	Pass
			CH _M	8.34		
			CH _H	8.47		
	40	802.11ac	CH _L	5.88	30.00	Pass
			CH _H	5.94		
		802.11n	CH _L	5.55	30.00	Pass
			CH _H	5.88		
	80	802.11ac	CH _M	2.99	30.00	Pass

Test plot as follows:



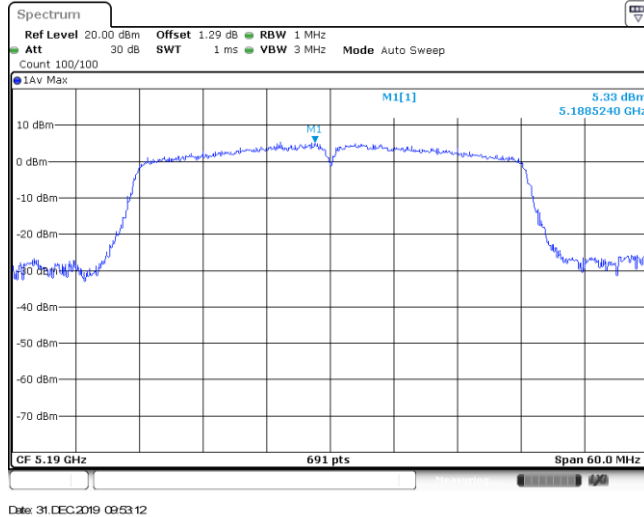
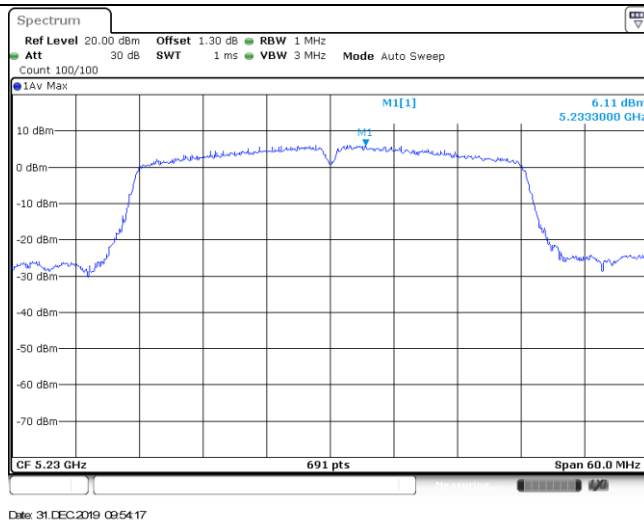




Band I		802.11ac (HT40)
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.29 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep IAV Max MI[1] 5.88 dBm 5.1934730 GHz  CF 5.19 GHz 691 pts Span 60.0 MHz Date: 31.DEC.2019 09:58:40	
	CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.29 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep IAV Max MI[1] 6.63 dBm 5.2280900 GHz  CF 5.23 GHz 691 pts Span 60.0 MHz Date: 31.DEC.2019 09:59:36

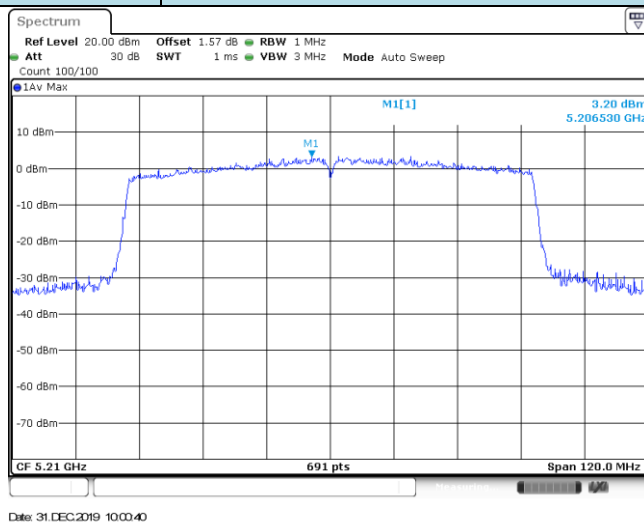
Band I

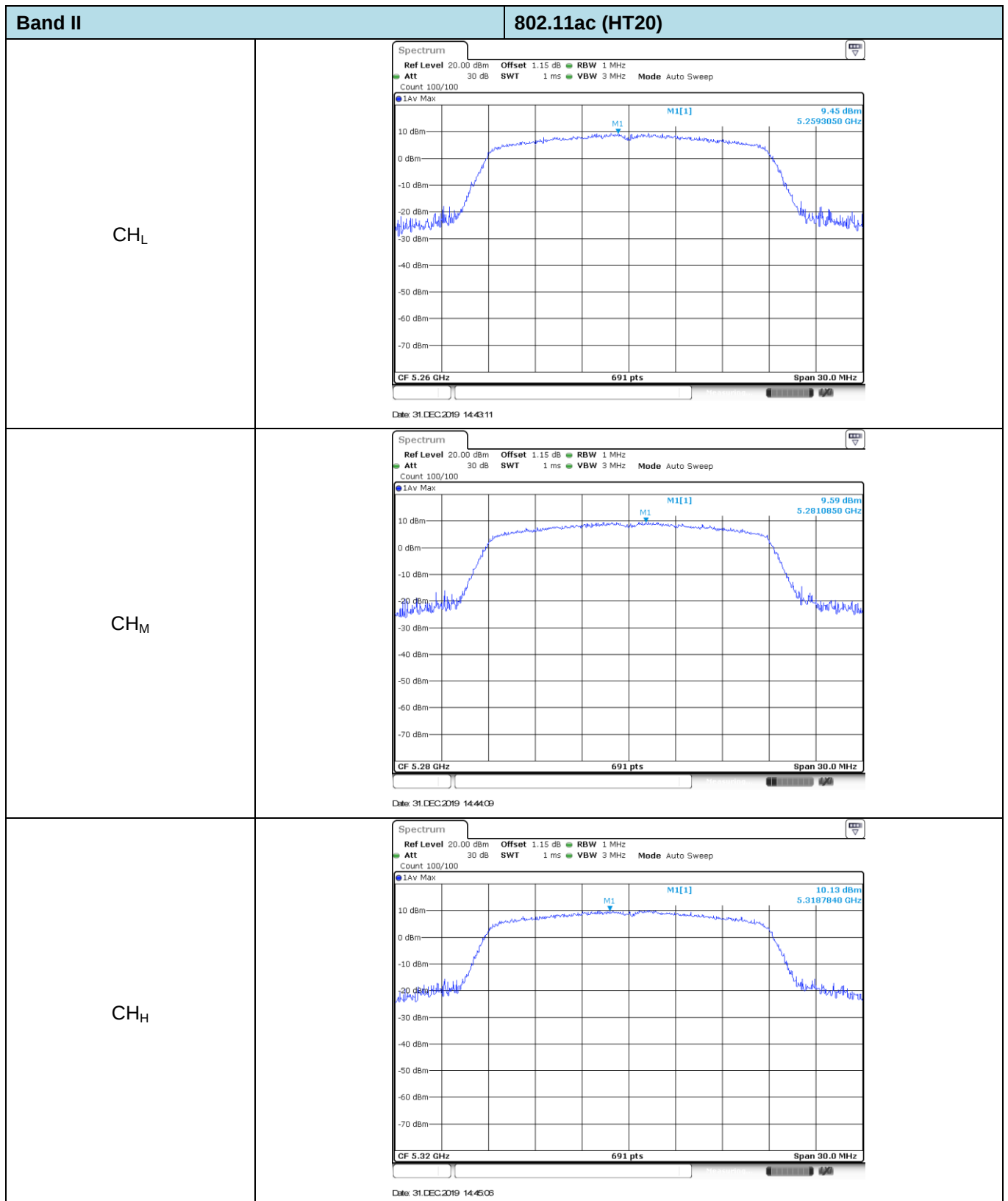
802.11n (HT40)

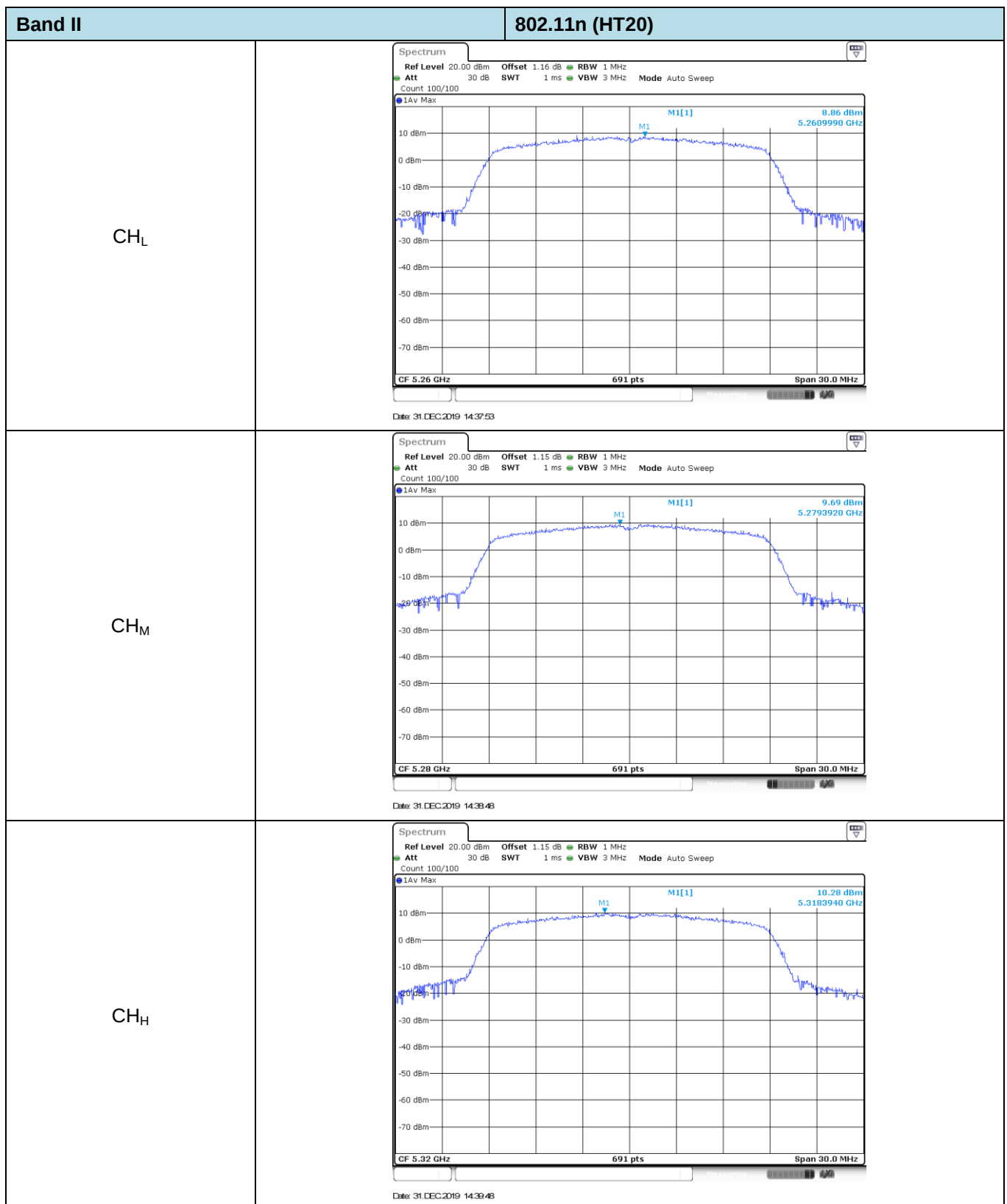
CH_LCH_H

Band I

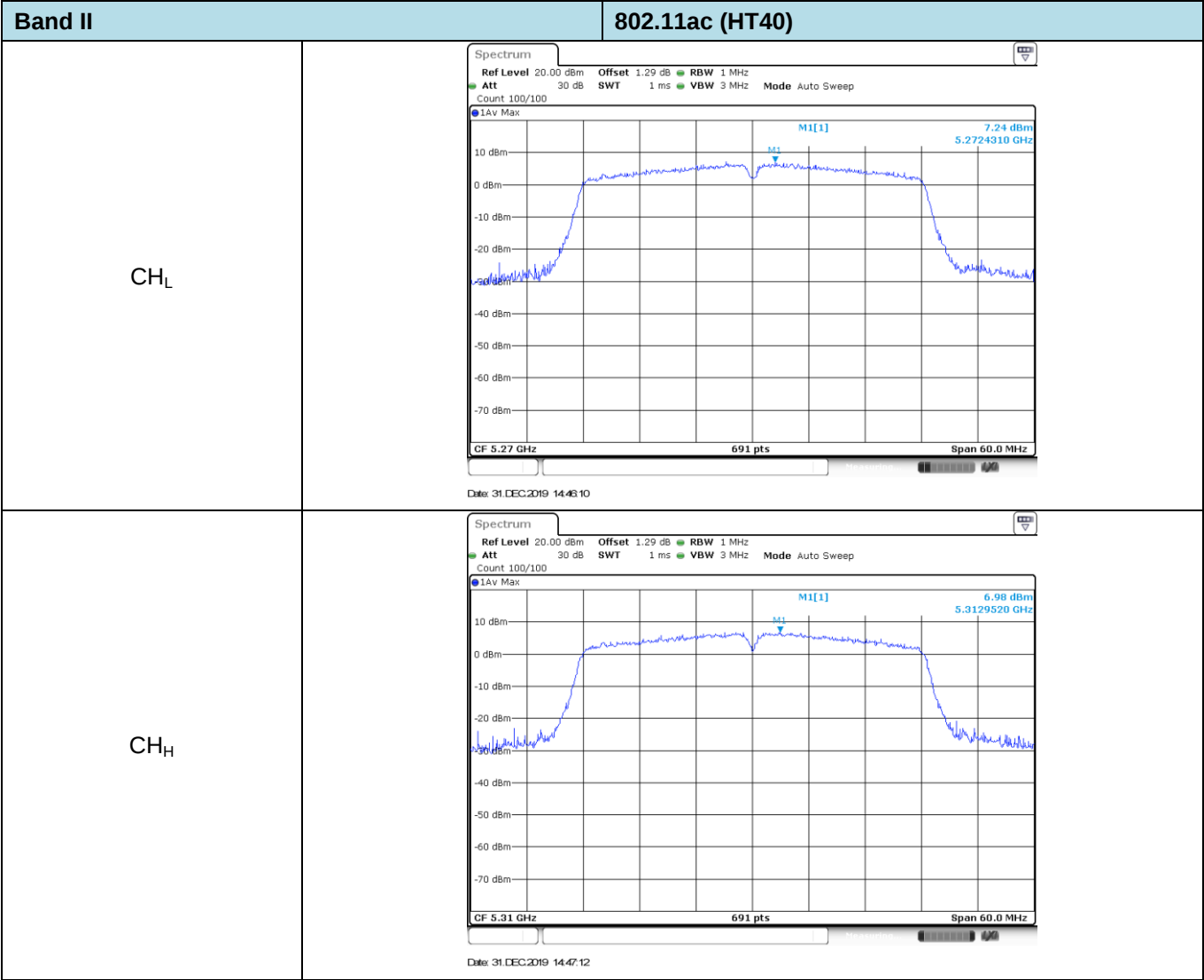
802.11ac (HT80)

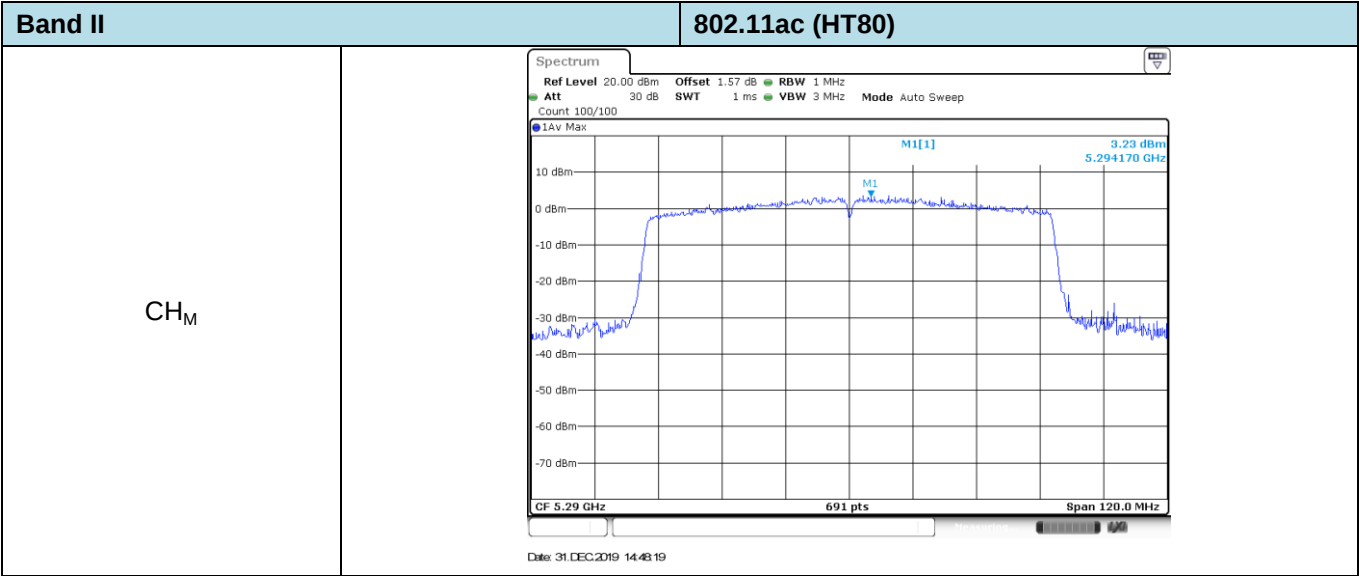
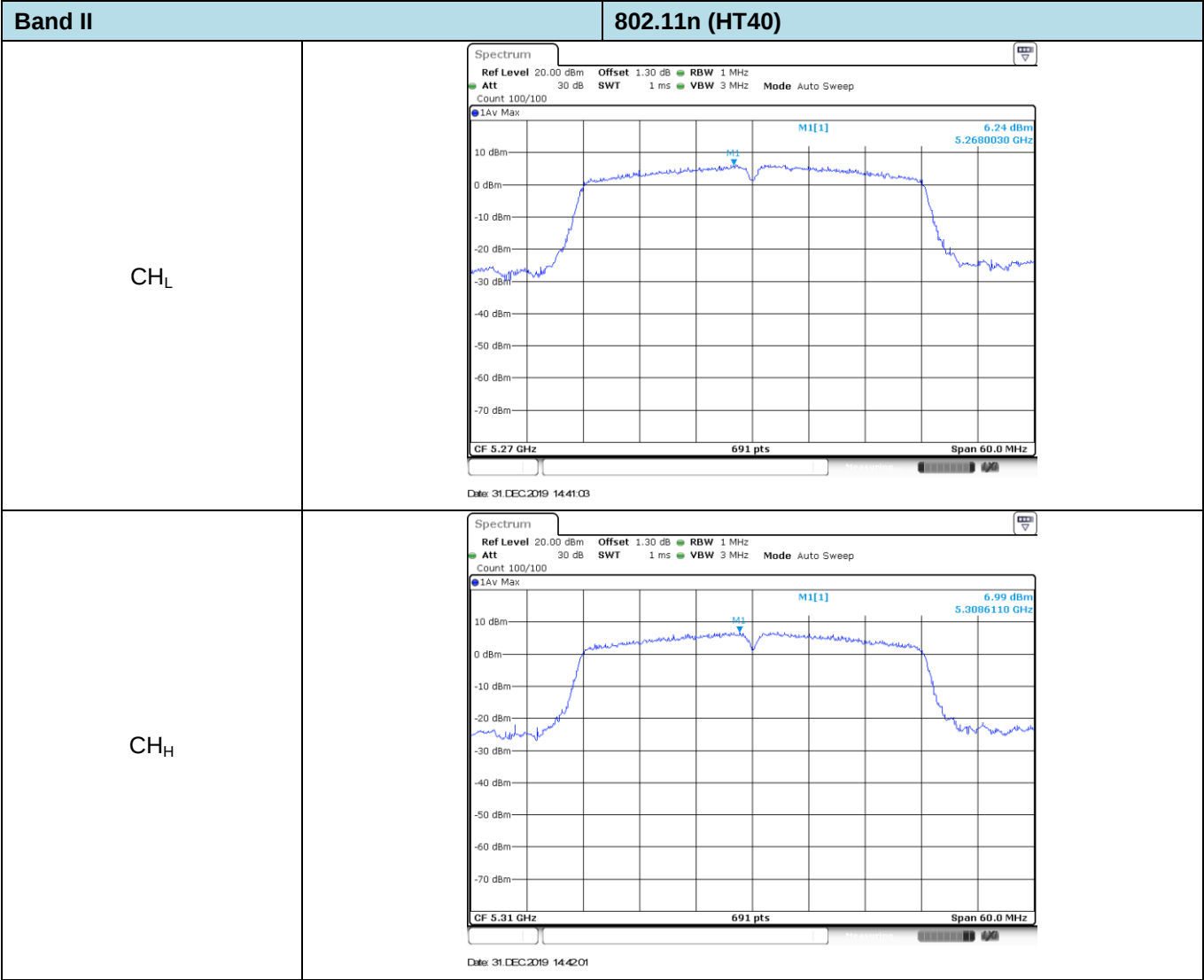
CH_M

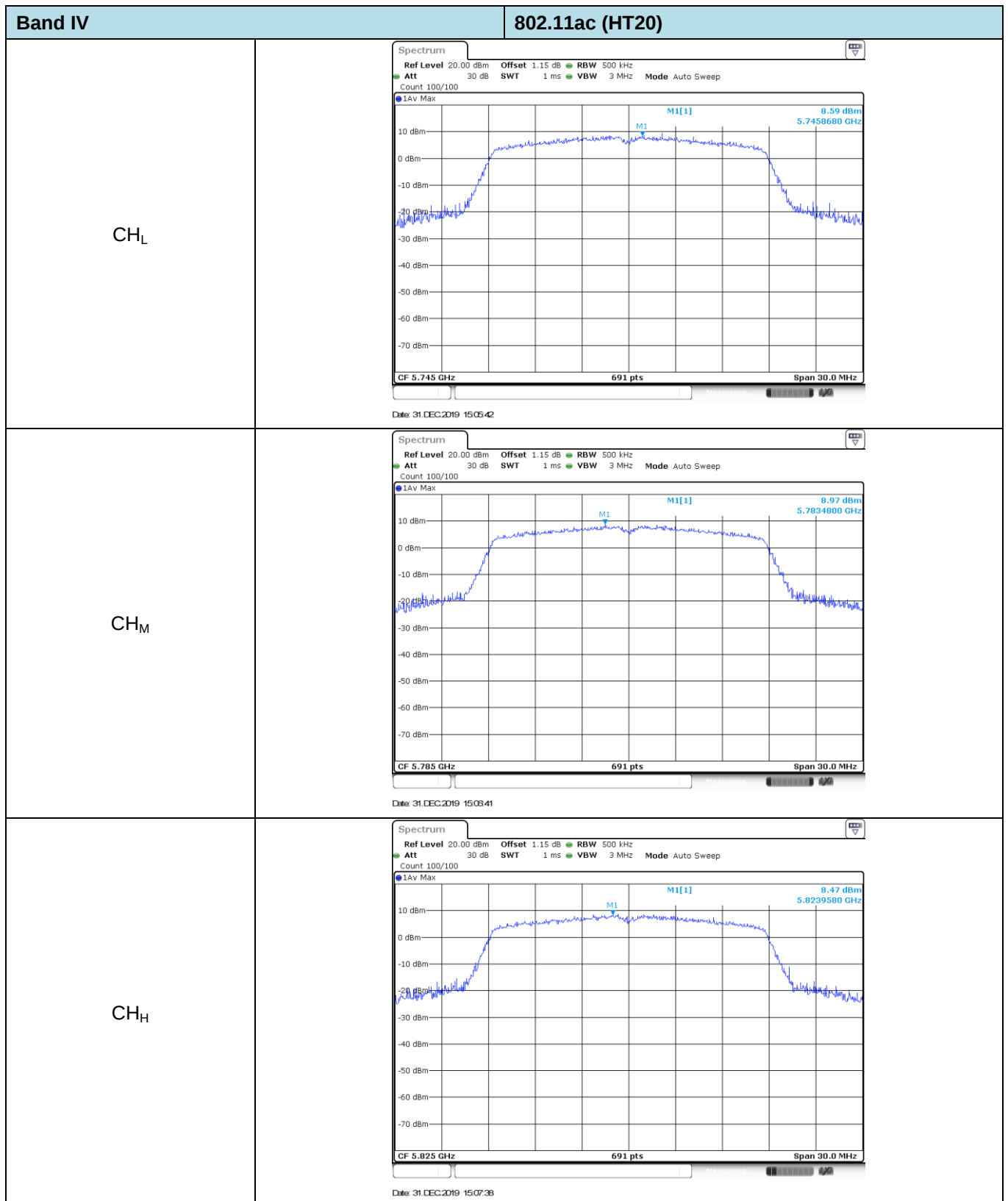




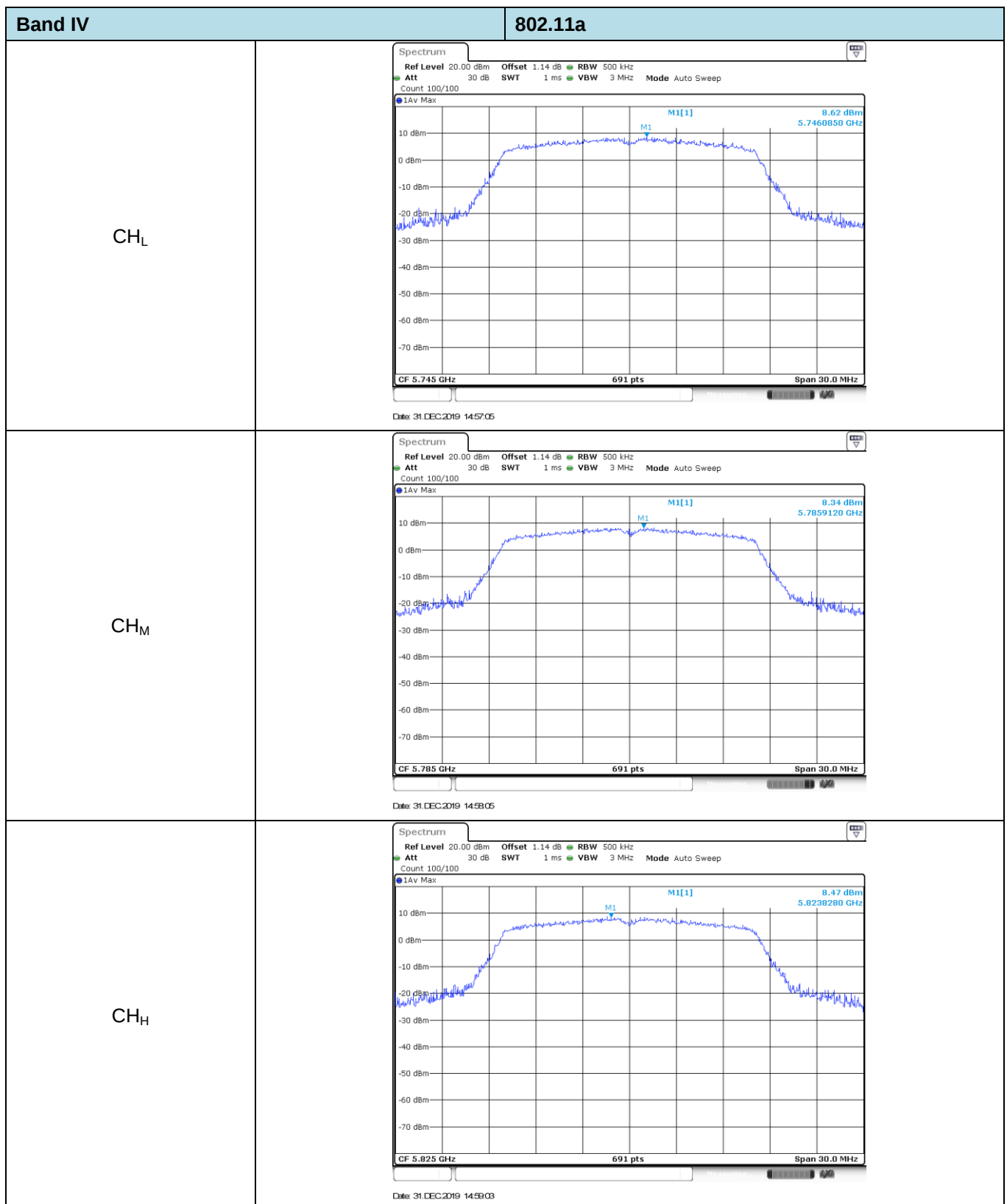
Band II		802.11a
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.14 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep IAV Max 9.40 dBm 5.2577860 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 691 pts Span 30.0 MHz Date: 31.DEC.2019 14:31:15	
CH _M	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.14 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep IAV Max 9.80 dBm 5.2814330 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: 31.DEC.2019 14:32:19	
CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.14 dB SWT 1 ms RBW 1 MHz VBW 3 MHz Mode Auto Sweep IAV Max 10.19 dBm 5.3206510 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: 31.DEC.2019 14:33:23	

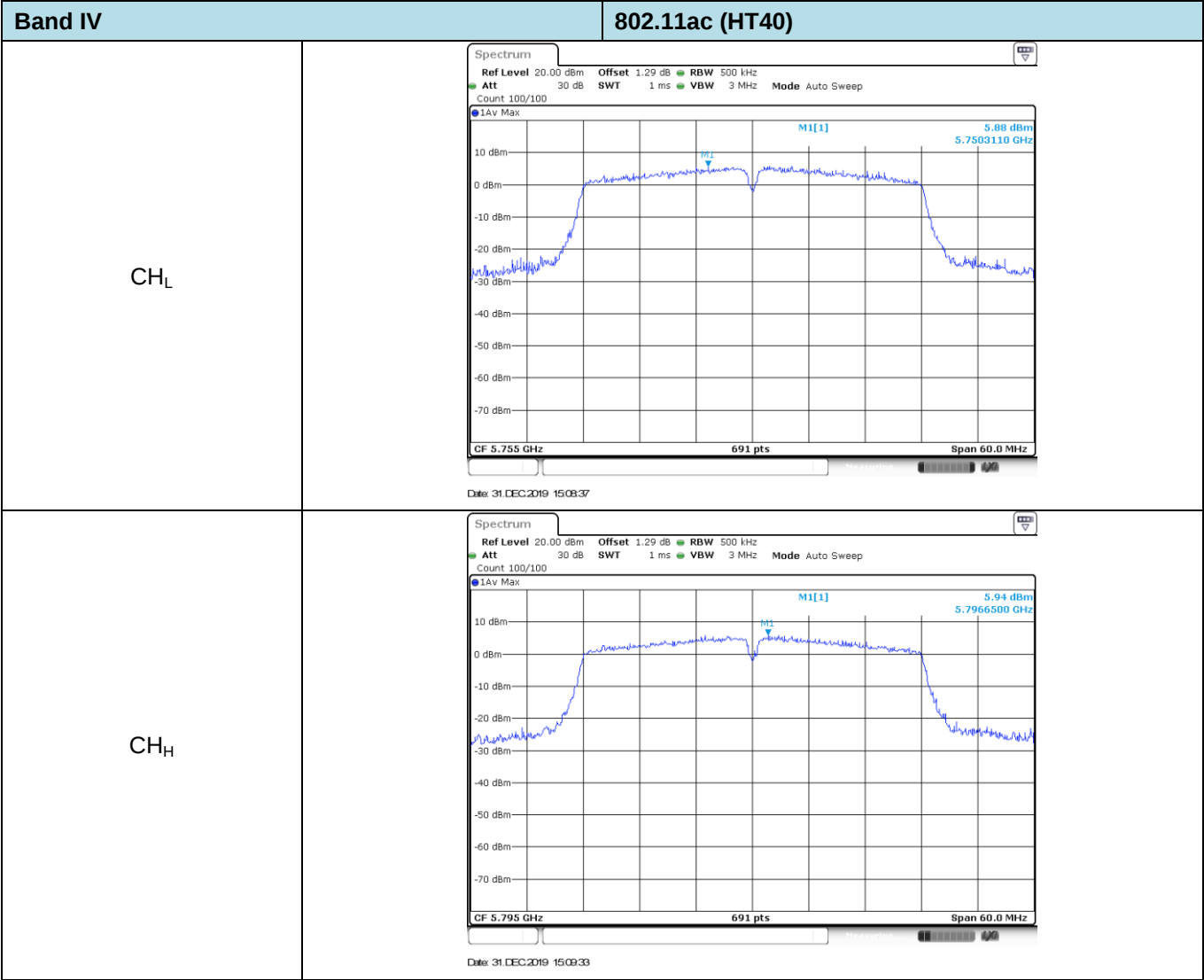






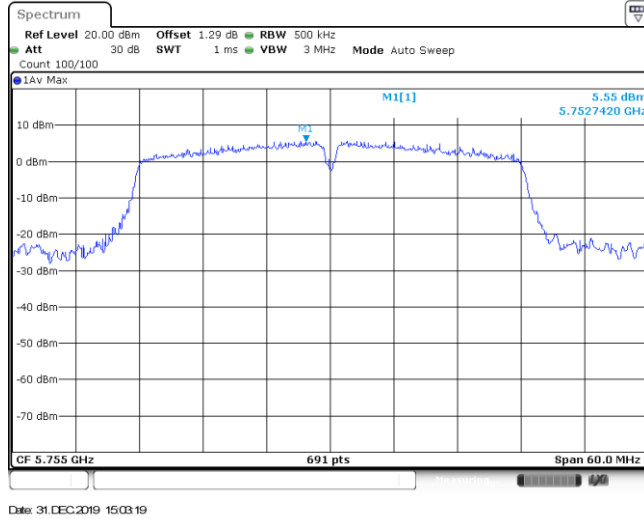
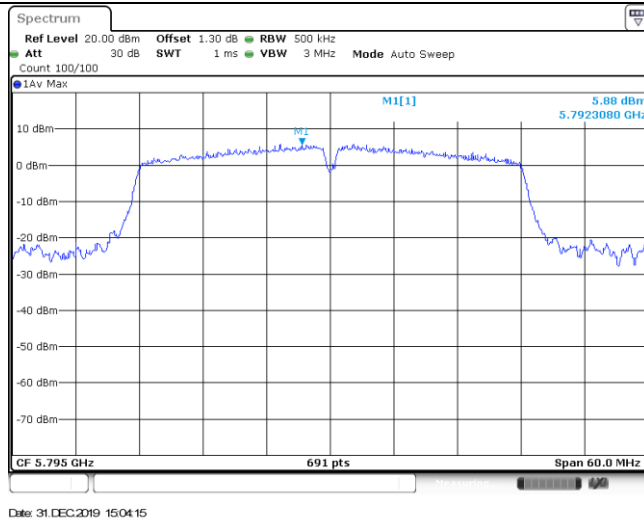
Band IV		802.11n (HT20)
CH _L	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.16 dB SWT 1 ms RBW 500 kHz VBW 3 MHz Mode Auto Sweep IAV Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 8.59 dBm 5.7435240 GHz CF 5.745 GHz 691 pts Span 30.0 MHz Date: 31.DEC.2019 15:00:15	
CH _M	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.15 dB SWT 1 ms RBW 500 kHz VBW 3 MHz Mode Auto Sweep IAV Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 8.49 dBm 5.7639940 GHz CF 5.765 GHz 691 pts Span 30.0 MHz Date: 31.DEC.2019 15:01:14	
CH _H	Spectrum Ref Level 20.00 dBm Att 30 dB Count 100/100 Offset 1.15 dB SWT 1 ms RBW 500 kHz VBW 3 MHz Mode Auto Sweep IAV Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M1[1] 8.28 dBm 5.8242620 GHz CF 5.825 GHz 691 pts Span 30.0 MHz Date: 31.DEC.2019 15:02:13	





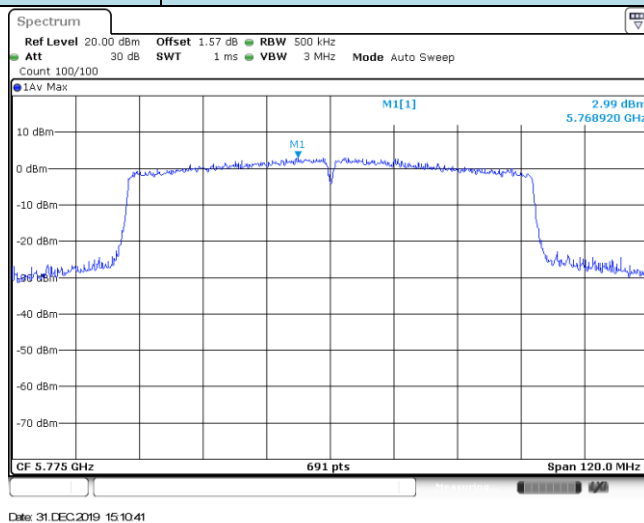
Band IV

802.11n (HT40)

CH_LCH_H

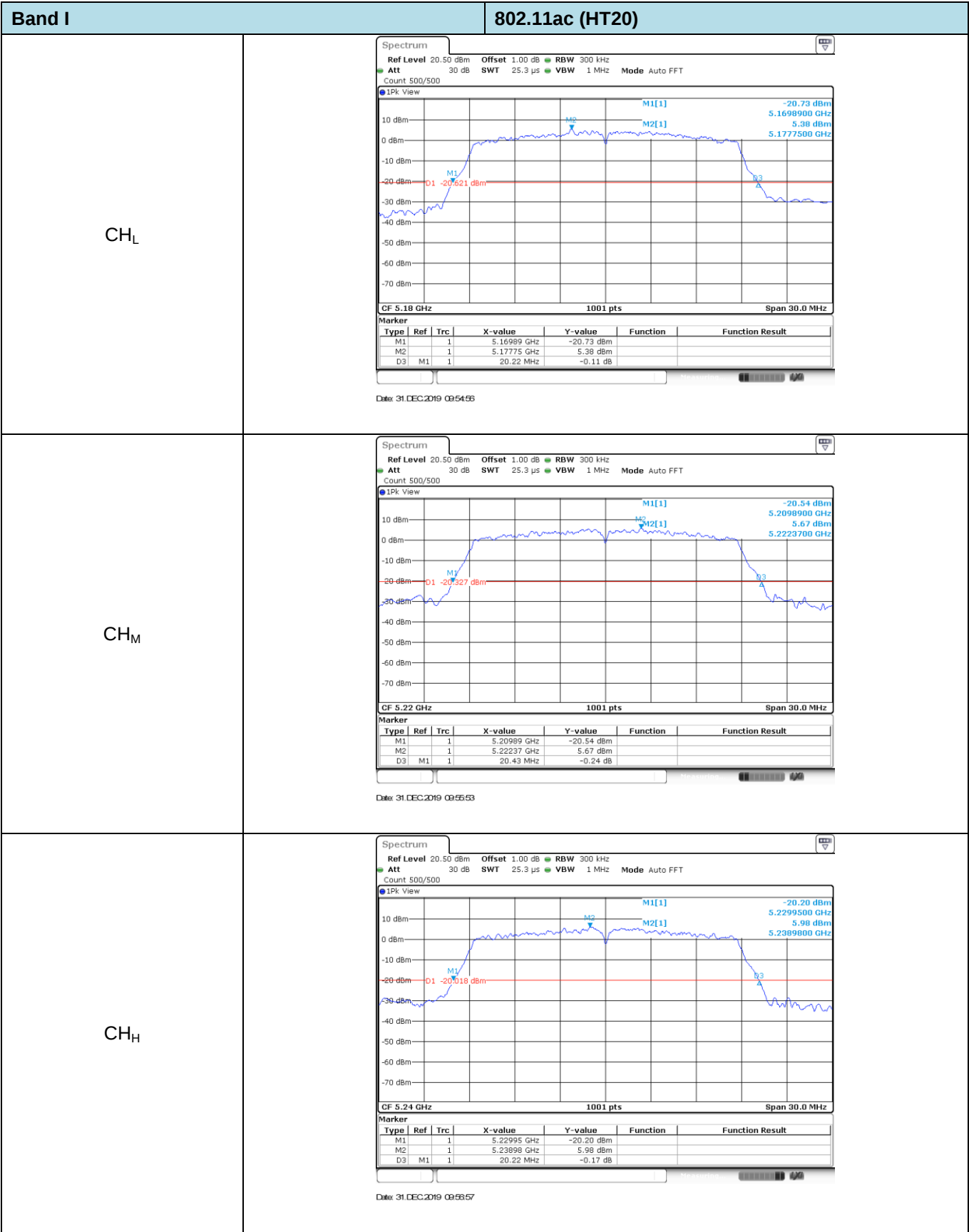
Band IV

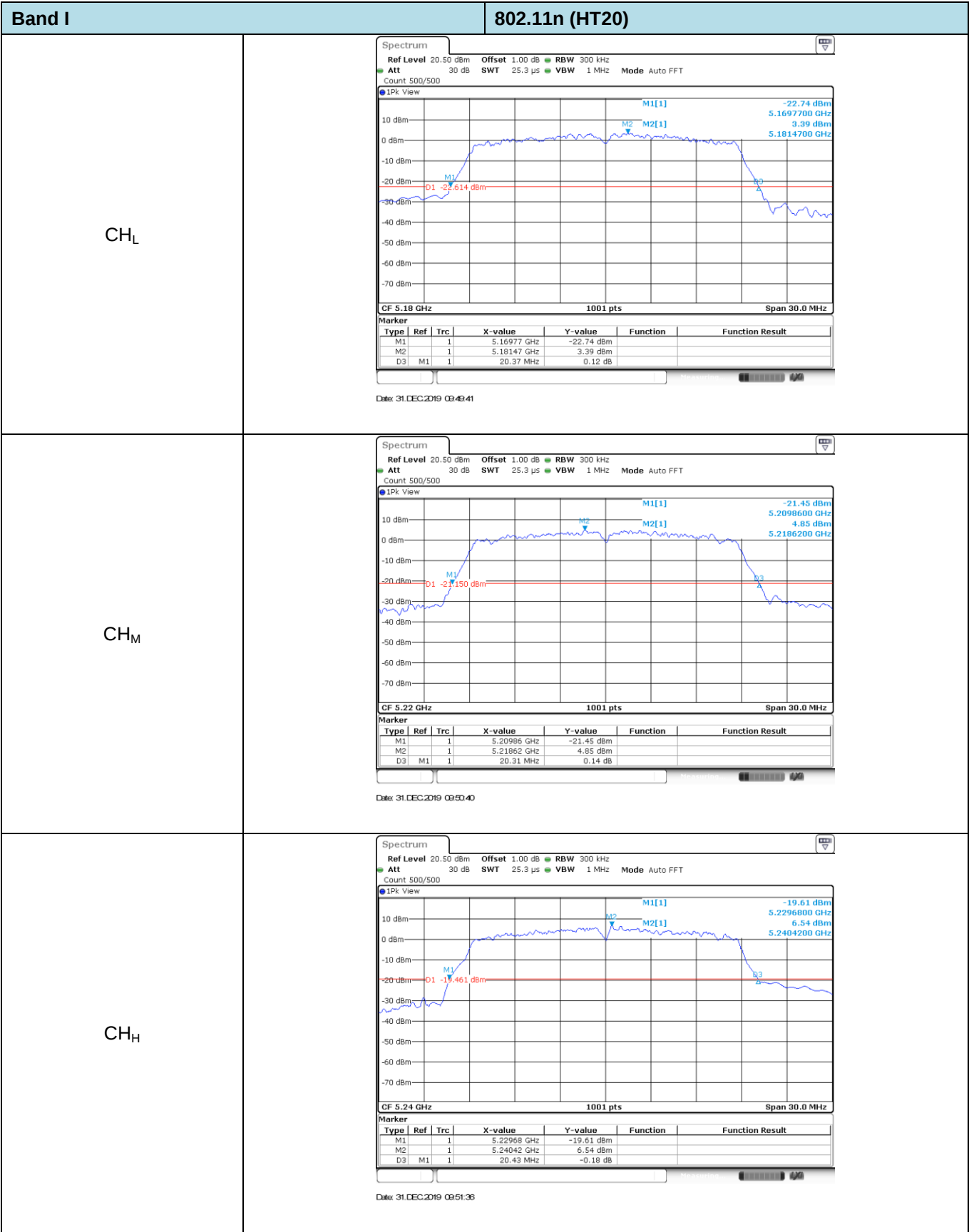
802.11ac (HT80)

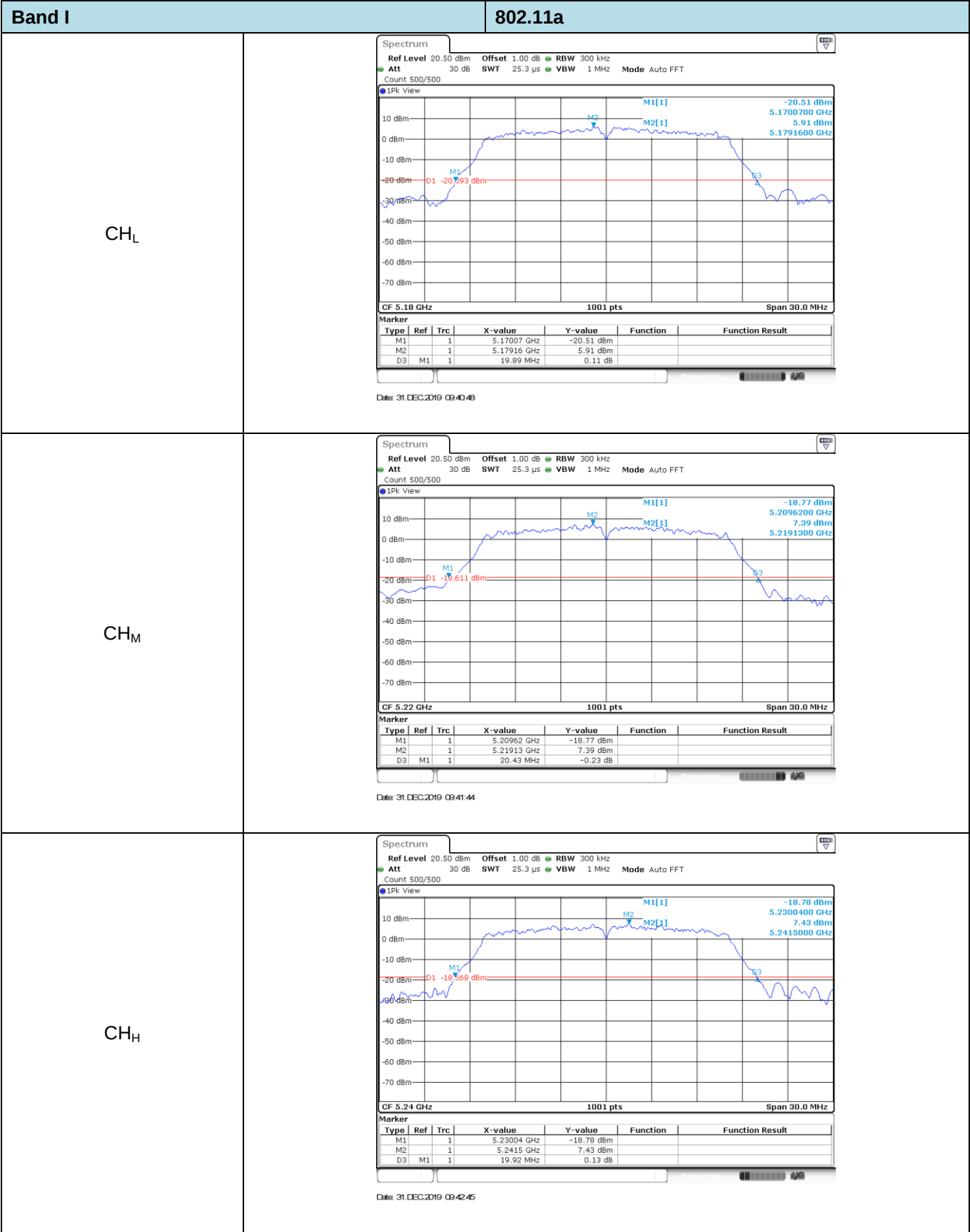
CH_M

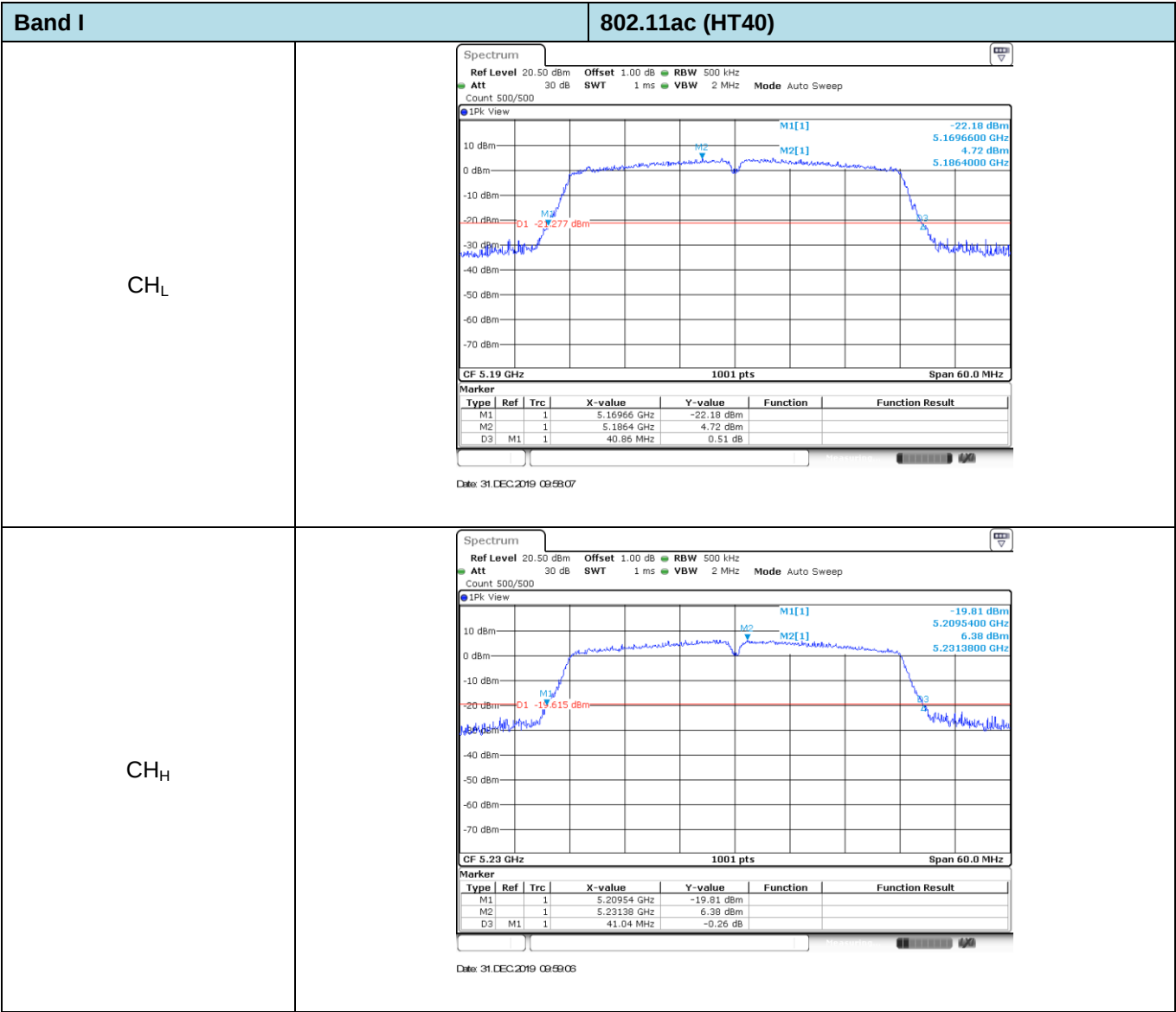
Appendix C: 26dB bandwidth

Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.22	Pass
			CH _M	20.43	
			CH _H	20.22	
		802.11n	CH _L	20.37	Pass
			CH _M	20.31	
			CH _H	20.43	
		802.11a	CH _L	19.89	Pass
			CH _M	20.43	
			CH _H	19.92	
	40	802.11ac	CH _L	40.86	Pass
			CH _H	41.04	
		802.11n	CH _L	40.80	Pass
			CH _H	40.86	
	80	802.11ac	CH _M	81.24	Pass
II	20	802.11ac	CH _L	20.19	Pass
			CH _M	20.25	
			CH _H	20.46	
		802.11n	CH _L	20.46	Pass
			CH _M	20.34	
			CH _H	20.52	
		802.11a	CH _L	20.07	Pass
			CH _M	19.86	
			CH _H	20.73	
	40	802.11ac	CH _L	41.58	Pass
			CH _H	41.22	
		802.11n	CH _L	41.10	Pass
			CH _H	41.34	
	80	802.11ac	CH _M	81.24	Pass



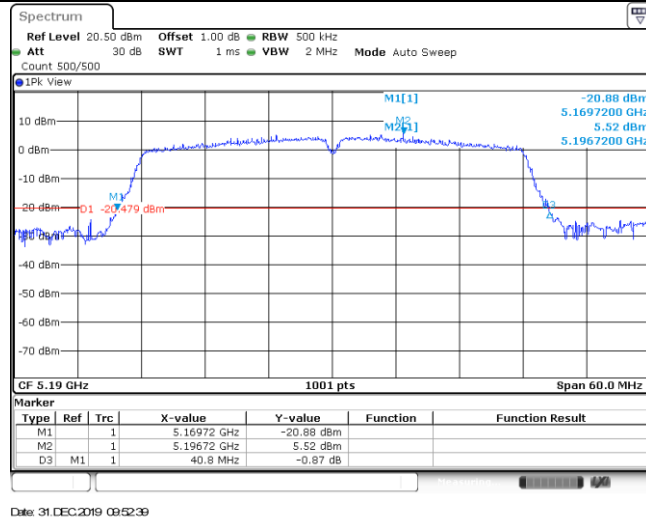
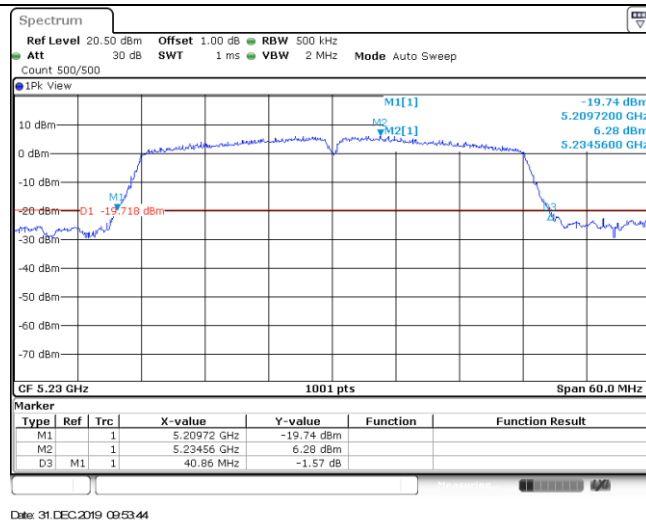






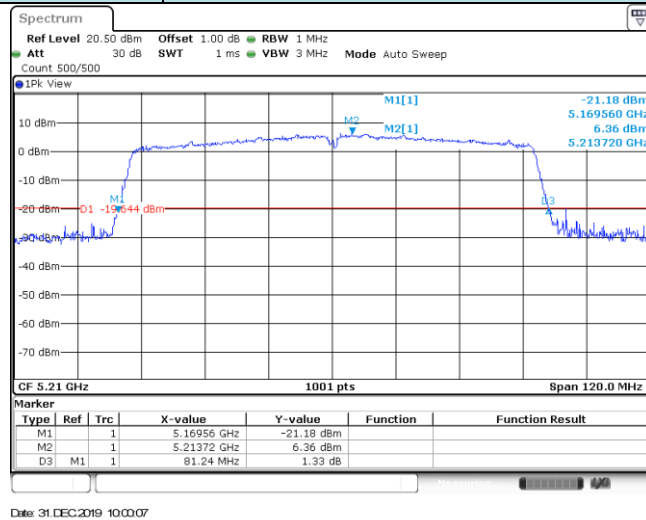
Band I

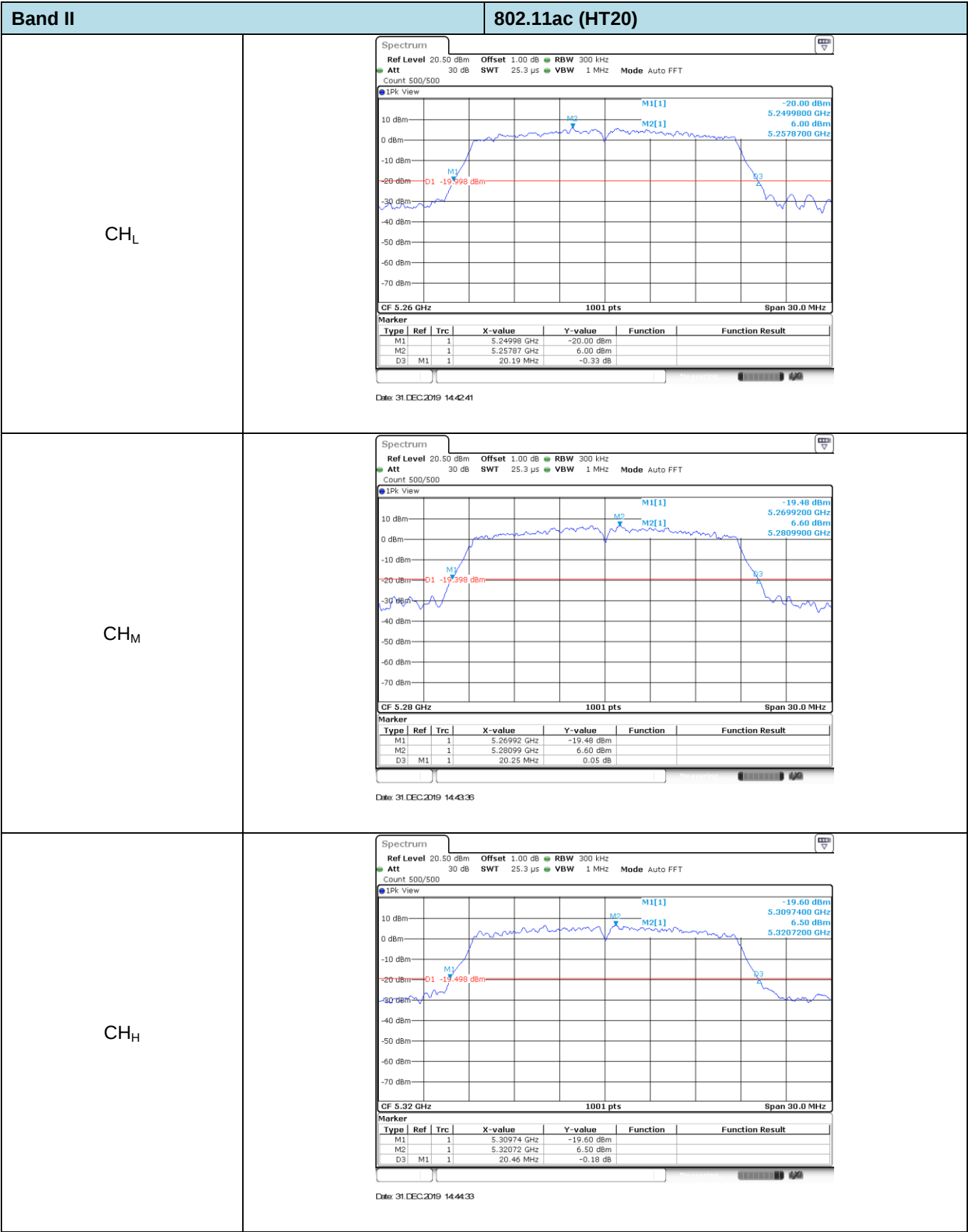
802.11n (HT40)

CH_LCH_H

Band I

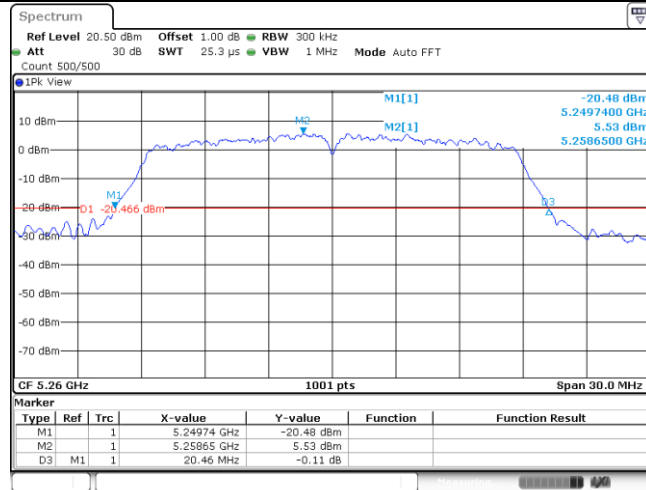
802.11ac (HT80)

CH_M

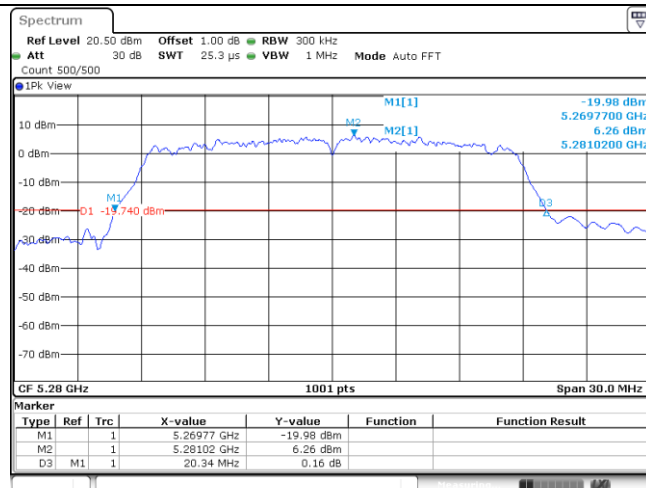


Band II

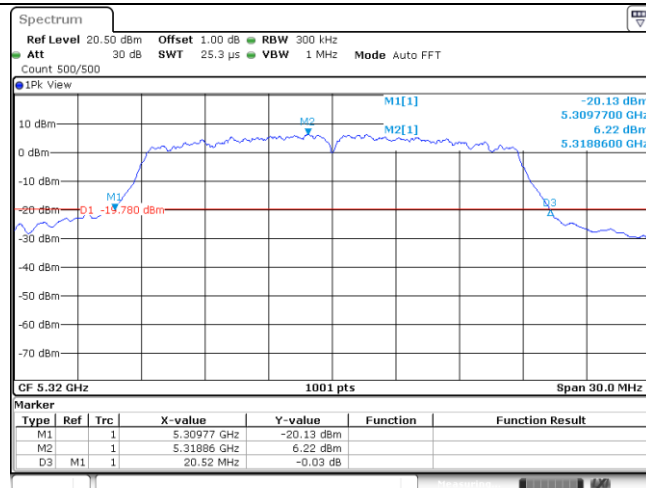
802.11n (HT20)

CH_L

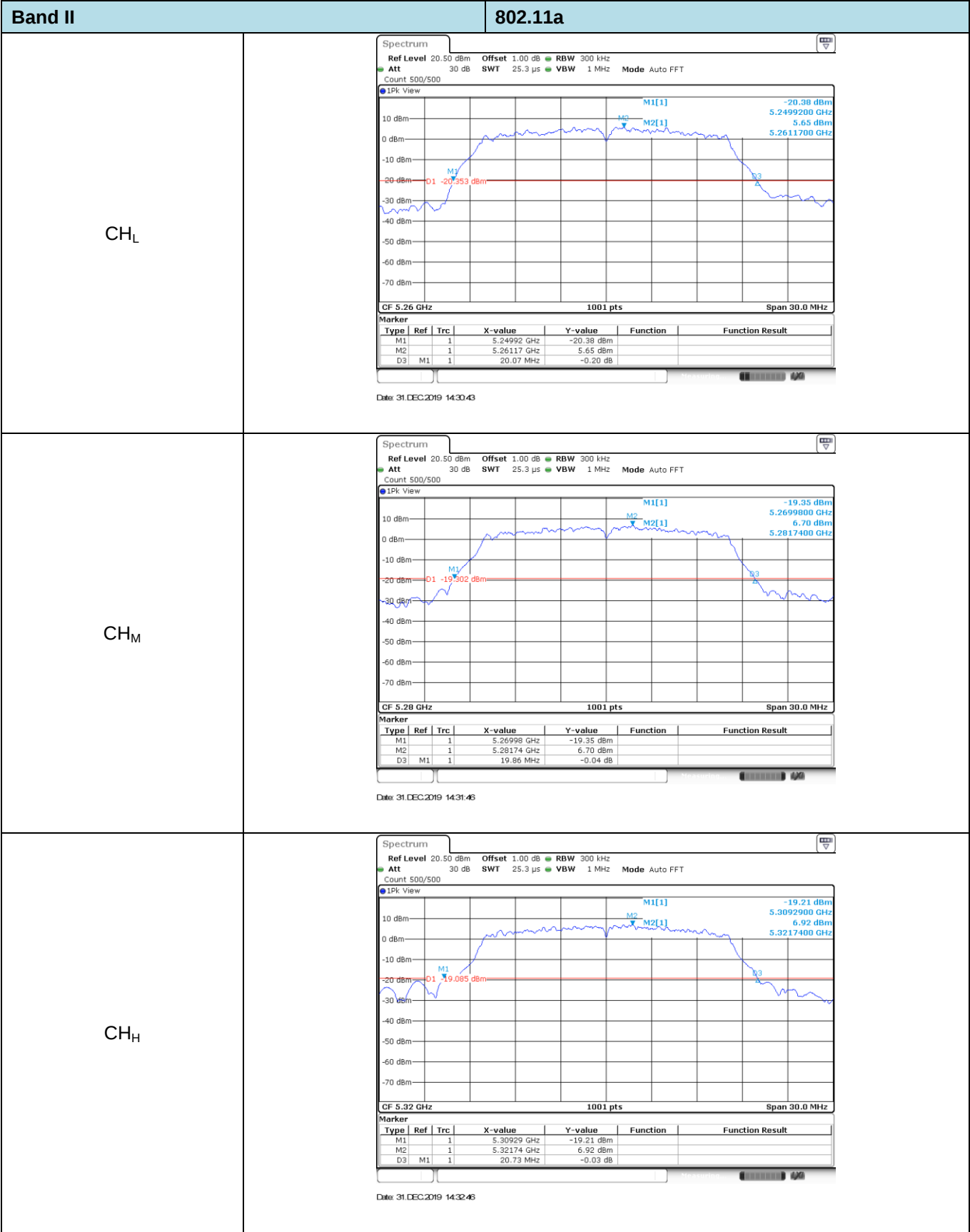
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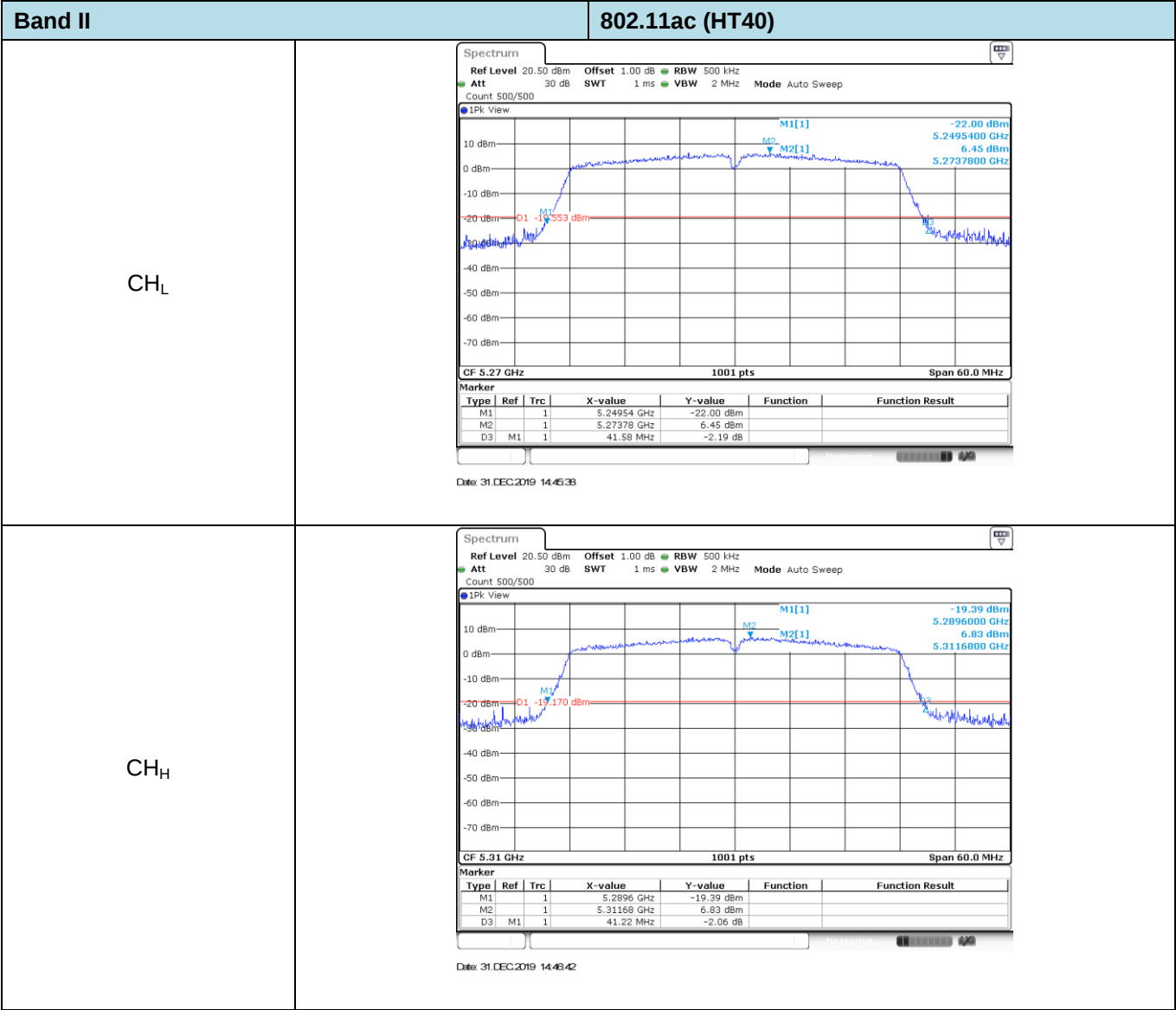
CH_M

Date: 31.DEC.2019 14:38:17

CH_H

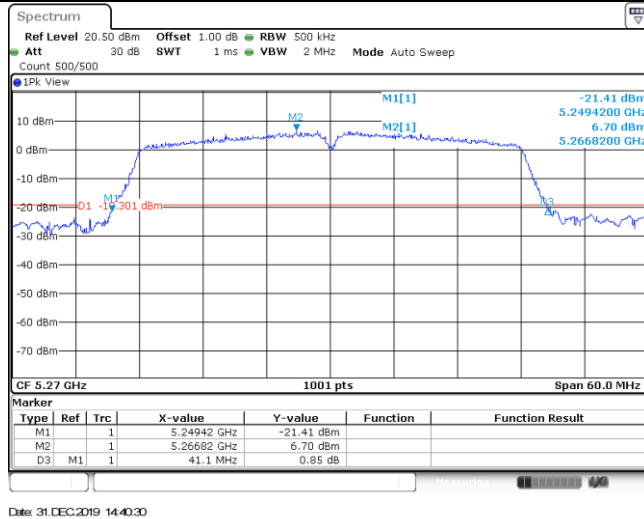
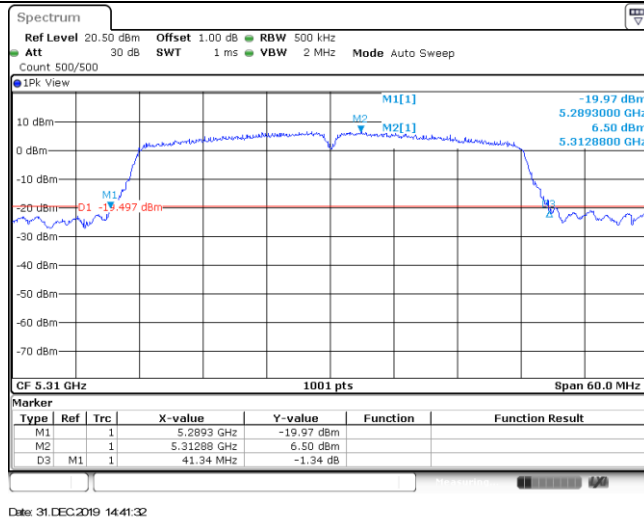
Date: 31.DEC.2019 14:39:15





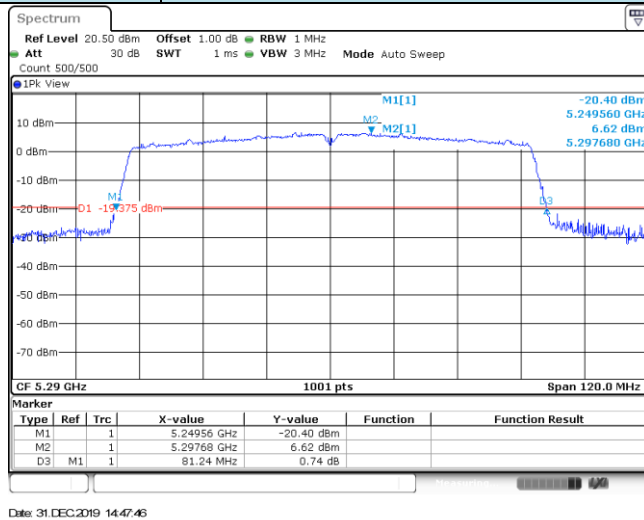
Band II

802.11n (HT40)

CH_LCH_H

Band II

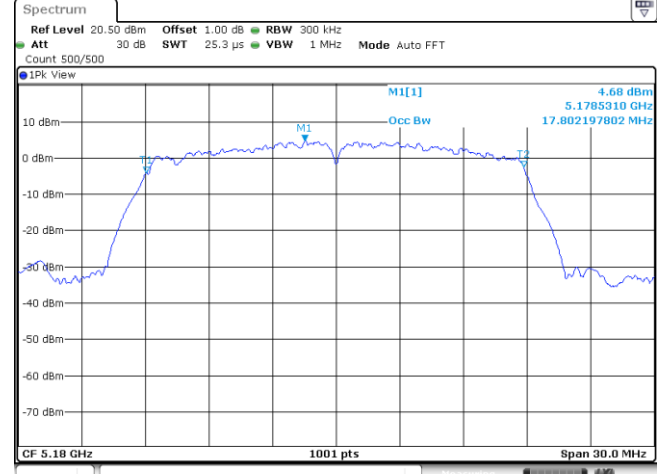
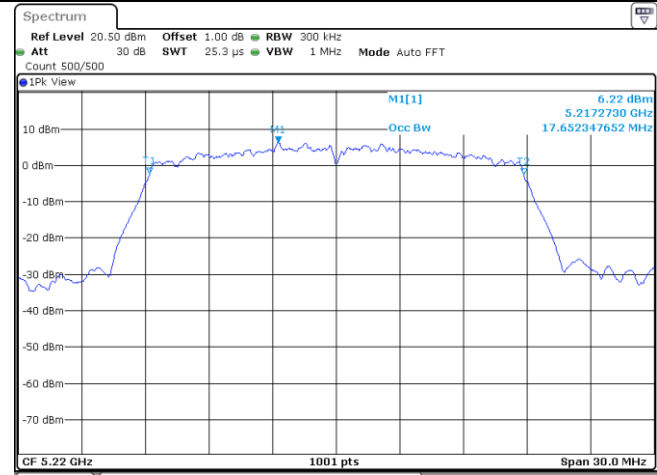
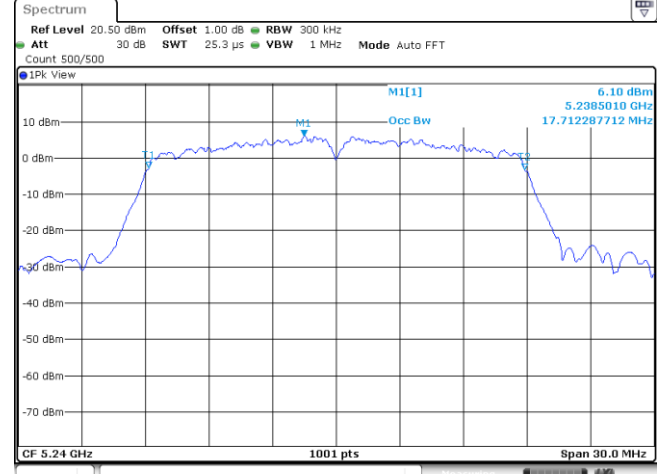
802.11ac (HT80)

CH_M

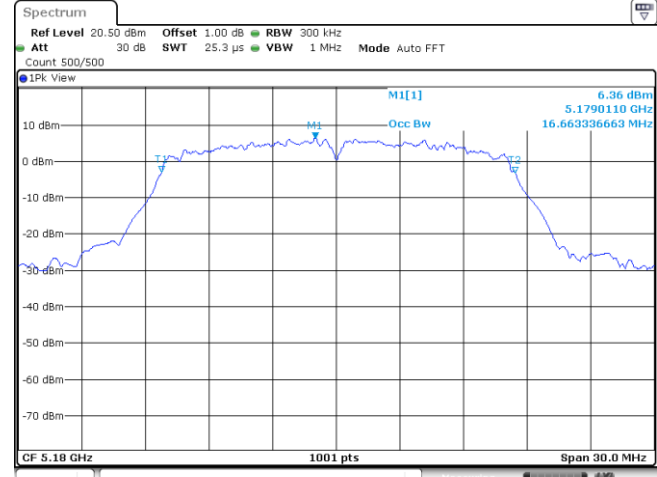
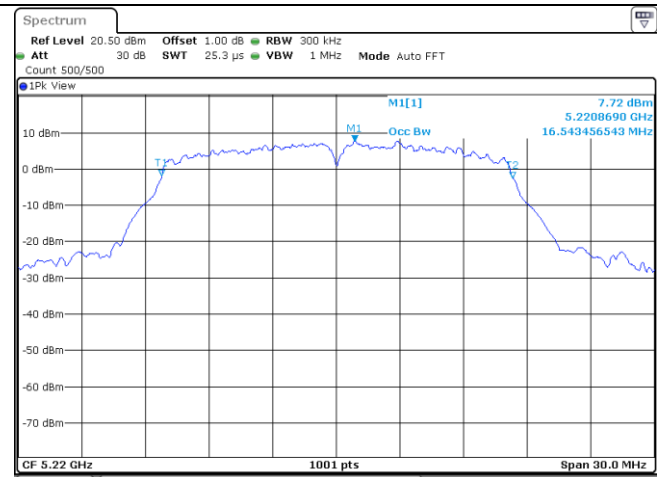
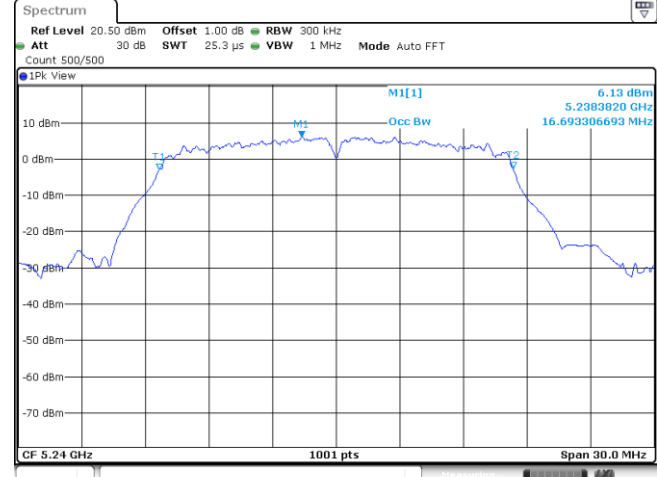
Appendix D: 99% Occupy bandwidth

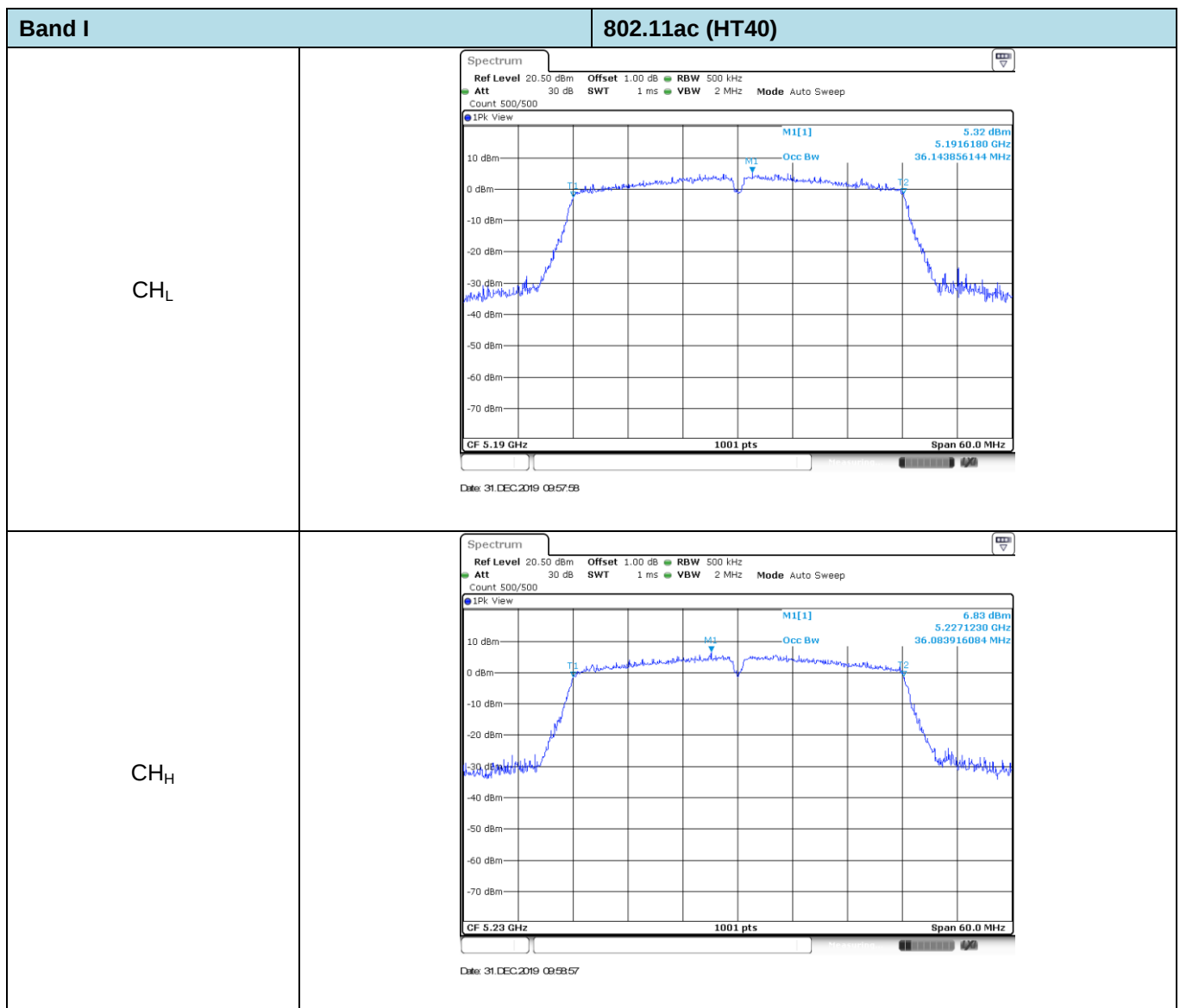
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.80	Pass
			CH _M	17.65	
			CH _H	17.71	
		802.11n	CH _L	17.77	Pass
			CH _M	17.59	
			CH _H	17.89	
		802.11a	CH _L	16.66	Pass
			CH _M	16.54	
			CH _H	16.69	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.08	
		802.11n	CH _L	36.08	Pass
			CH _H	36.14	
	80	802.11ac	CH _M	75.17	Pass
II	20	802.11ac	CH _L	17.65	Pass
			CH _M	17.59	
			CH _H	17.71	
		802.11n	CH _L	17.65	Pass
			CH _M	17.74	
			CH _H	17.71	
		802.11a	CH _L	16.54	Pass
			CH _M	16.66	
			CH _H	16.57	
	40	802.11ac	CH _L	36.08	Pass
			CH _H	36.14	
		802.11n	CH _L	36.14	Pass
			CH _H	36.14	
	80	802.11ac	CH _M	75.17	Pass

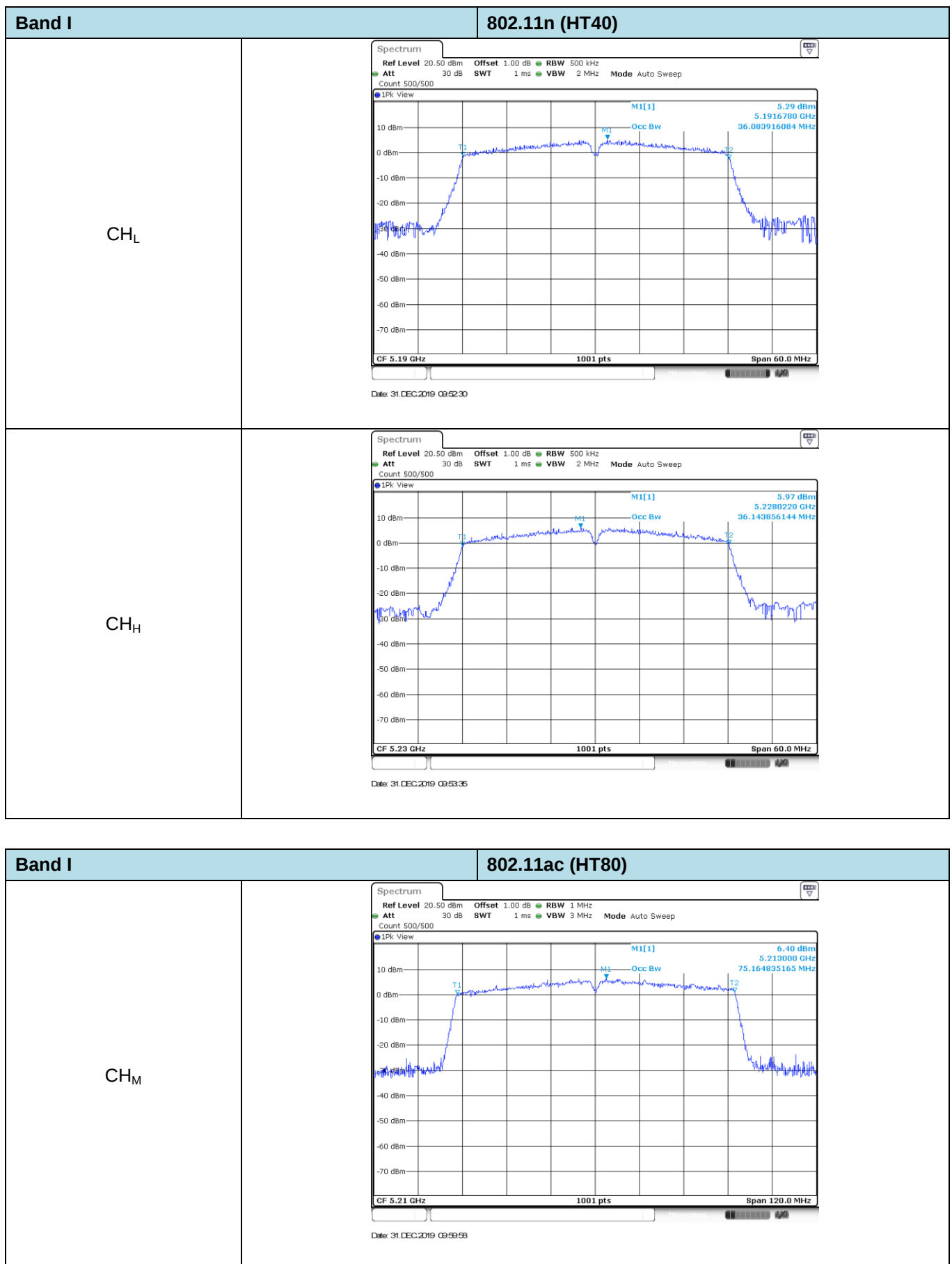
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.74	
			CH _H	17.68	
		802.11n	CH _L	17.68	Pass
			CH _M	17.83	
			CH _H	17.65	
		802.11a	CH _L	16.72	Pass
			CH _M	16.81	
			CH _H	16.63	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.20	
		802.11n	CH _L	36.21	Pass
			CH _H	36.21	
	80	802.11ac	CH _M	75.29	Pass

Band I	802.11ac (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 1Pk View M1 5.1765310 GHz 4.68 dBm Occ Bw 17.802197802 MHz CF 5.18 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:00:18
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 1Pk View M1 5.2172730 GHz 6.22 dBm Occ Bw 17.652347652 MHz CF 5.22 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:00:34
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 1Pk View M1 5.2385010 GHz 6.10 dBm Occ Bw 17.712287712 MHz CF 5.24 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:00:48

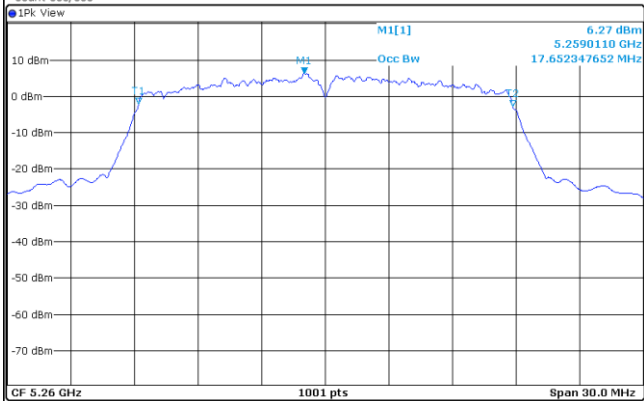
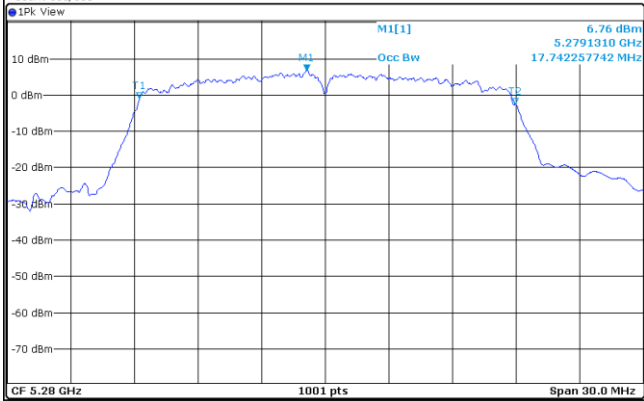
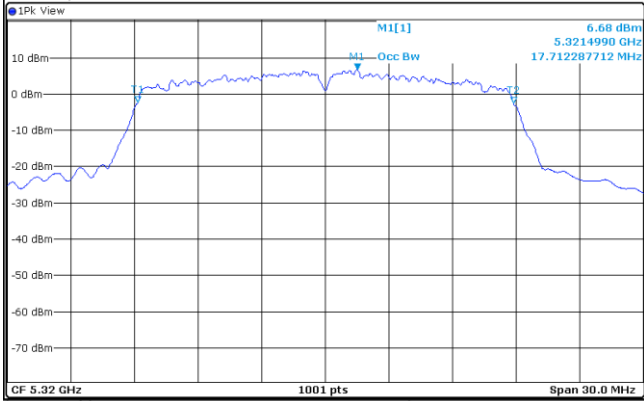
Band I		802.11n (HT20)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 5.18 dBm 5.1828770 GHz 17.77222772 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.18 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 20:59:35	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 6.34 dBm 5.2189510 GHz 17.592407592 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.22 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 20:59:55	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 6.34 dBm 5.2407490 GHz 17.892107892 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.24 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 20:59:35	

Band I	802.11a
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 1Pk View MI[1] 6.36 dBm 5.1790110 GHz 16.663336663 MHz CF 5.18 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 20:58:44
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 1Pk View MI[1] 7.72 dBm 5.2208690 GHz 16.543456543 MHz CF 5.22 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 20:57:21
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 1Pk View MI[1] 6.13 dBm 5.2383820 GHz 16.693306693 MHz CF 5.24 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 20:57:49

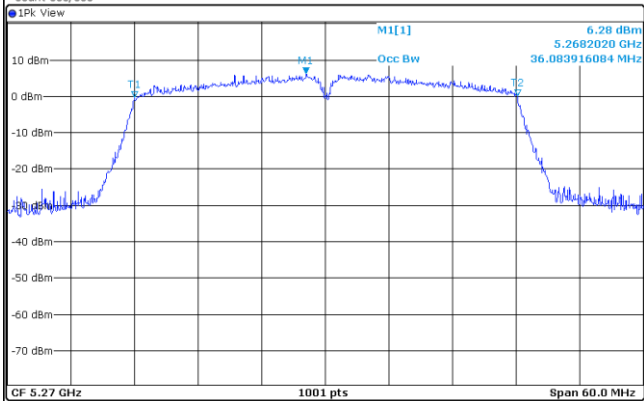
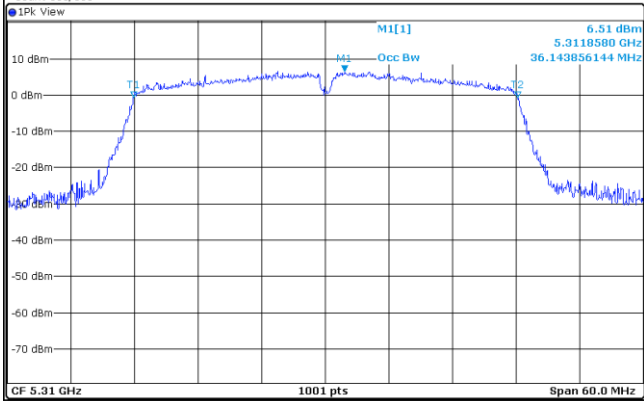




Band II		802.11ac (HT20)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1[1] MI Occ Bw 6.82 dBm 5.2614990 GHz 17.652347652 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:01:44	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1[1] MI Occ Bw 6.11 dBm 5.2783820 GHz 17.592407592 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:01:59	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1[1] MI Occ Bw 6.16 dBm 5.3180220 GHz 17.712287712 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 1001 pts Span 30.0 MHz Date: 31 DEC 2019 21:02:13	

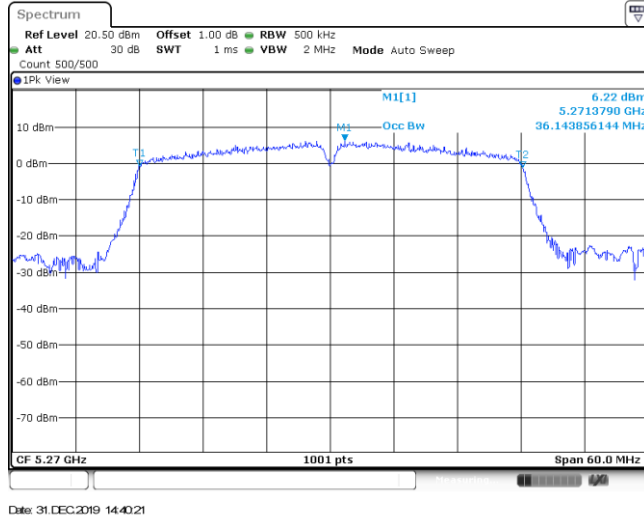
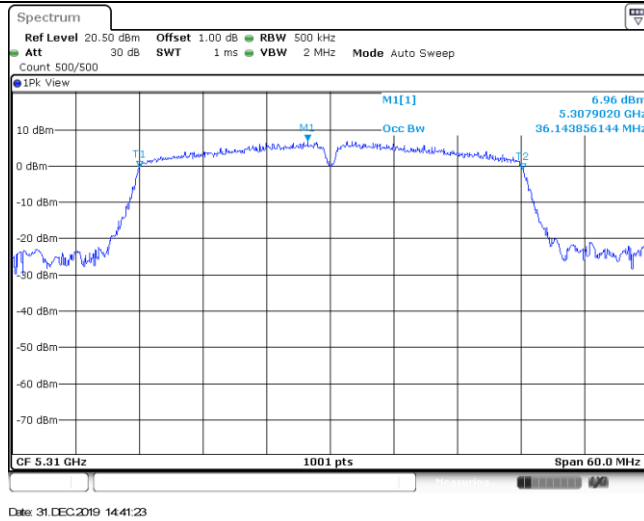
Band II		802.11n (HT20)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.26 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:03:03	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.28 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:03:18	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.32 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:03:33	

Band II		802.11a
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 6.16 dBm 5.2627270 GHz 16.543456543 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:04:01	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 6.18 dBm 5.2792510 GHz 16.663336663 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:04:15	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw 7.44 dBm 5.3191310 GHz 16.573426573 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.32 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:04:30	

Band II		802.11ac (HT40)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep Count 500/500 1Pk View  CF 5.27 GHz1001 ptsSpan 60.0 MHz Date: 31.DEC.2019 14:45:29	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep Count 500/500 1Pk View  CF 5.31 GHz1001 ptsSpan 60.0 MHz Date: 31.DEC.2019 14:48:33	

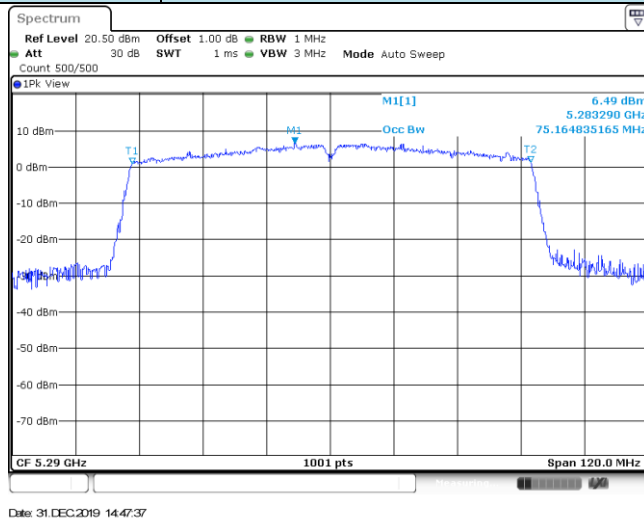
Band II

802.11n (HT40)

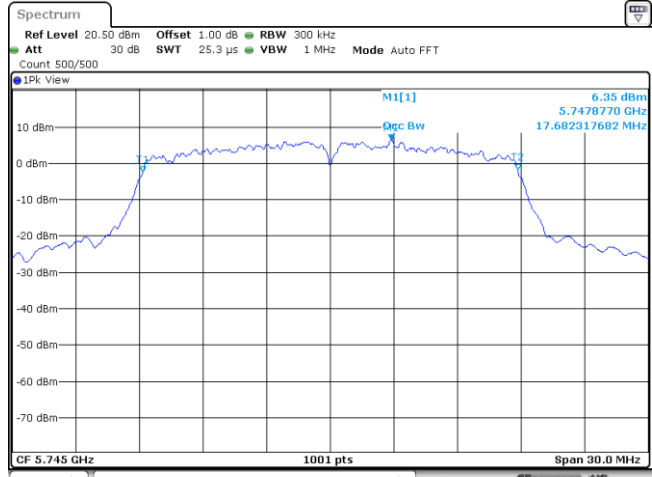
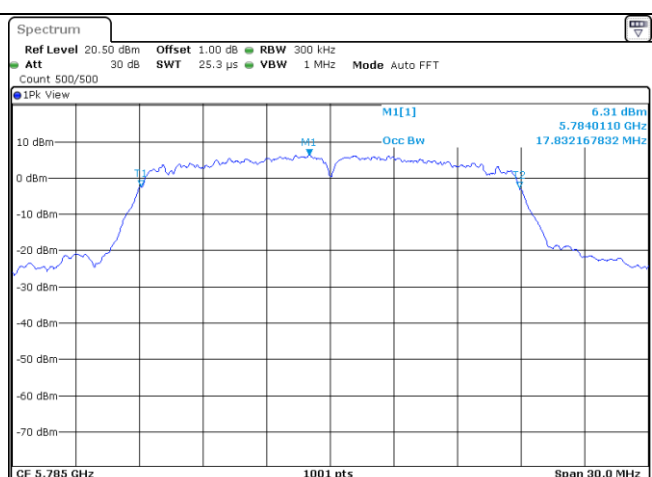
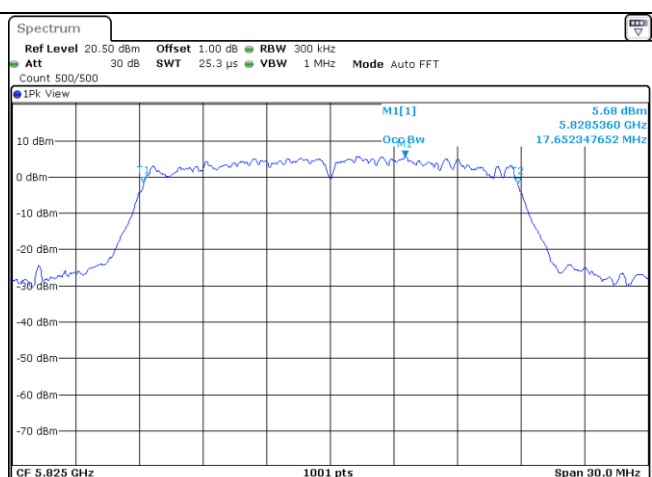
CH_LCH_H

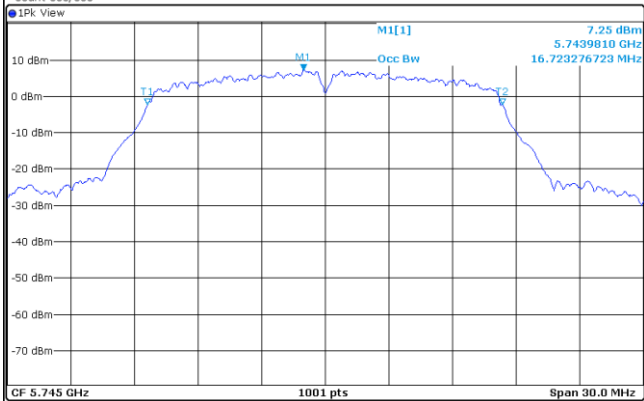
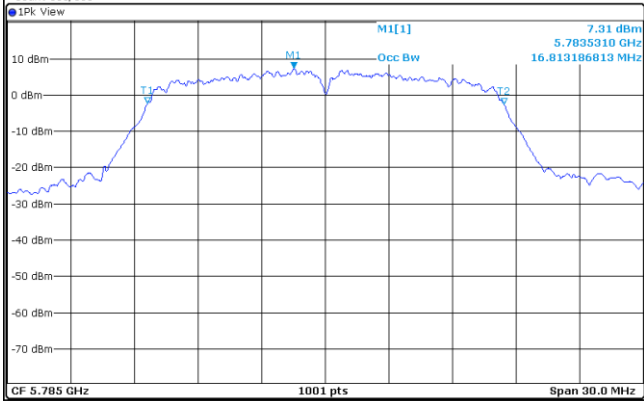
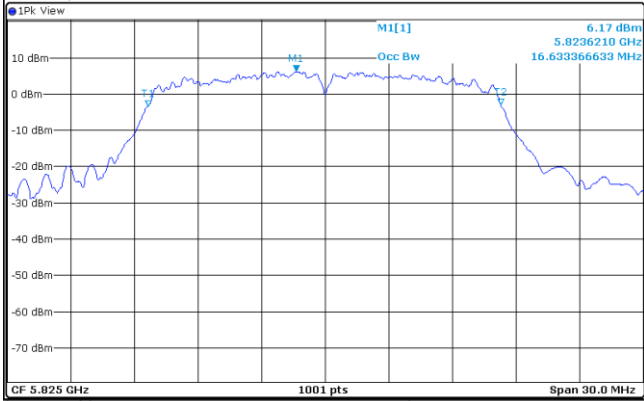
Band II

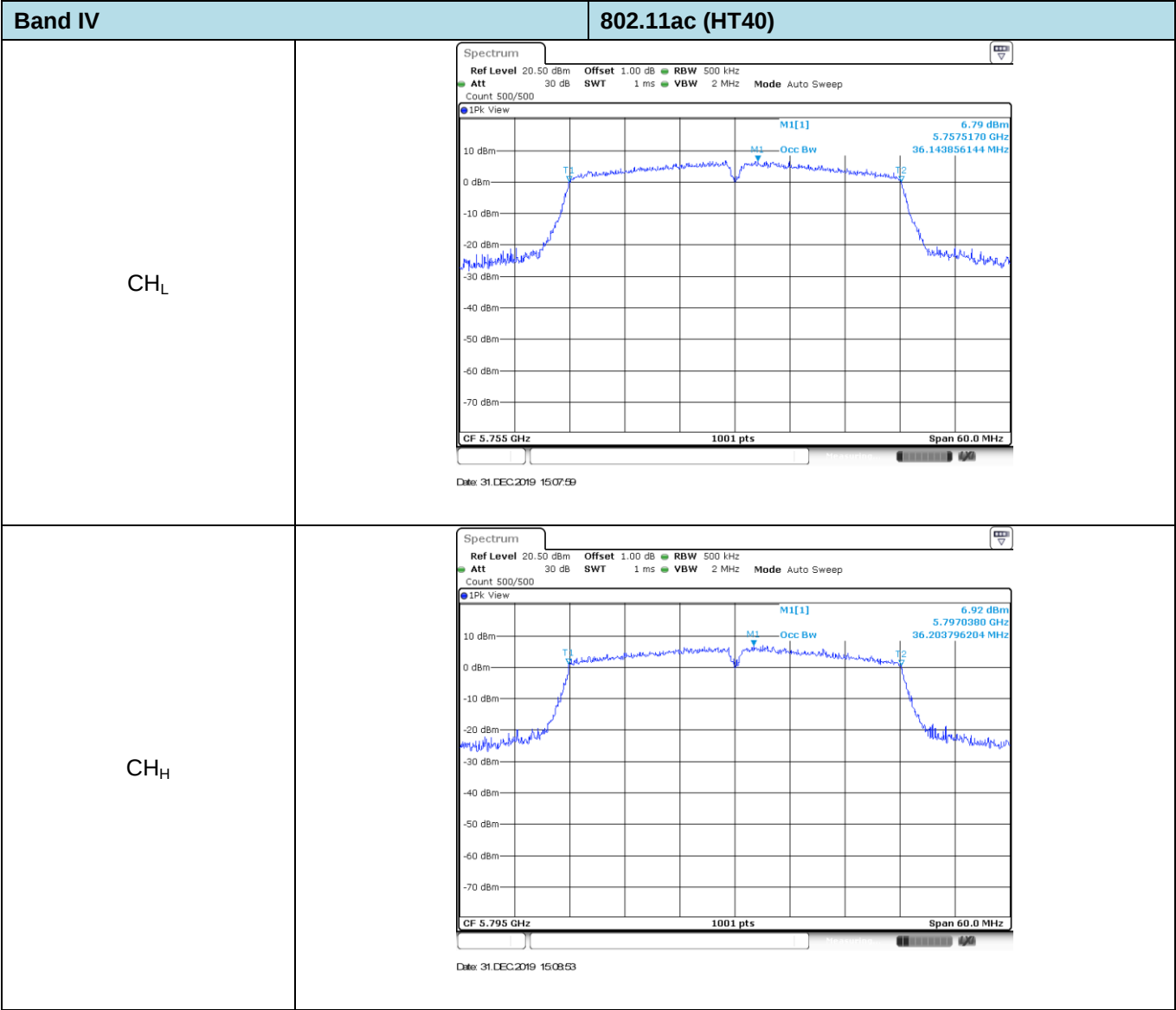
802.11ac (HT80)

CH_M

Band IV		802.11ac (HT20)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1 M1[1] Occ Bw 7.47 dBm 5.7458690 GHz 17.682317682 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.745 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:10:05	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1 M1[1] Occ Bw 6.50 dBm 5.7833520 GHz 17.742257742 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.785 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:10:19	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View M1 M1[1] Occ Bw 6.43 dBm 5.8257190 GHz 17.682317682 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.825 GHz 1001 pts Span 30.0 MHz Date: 31.DEC.2019 21:10:31	

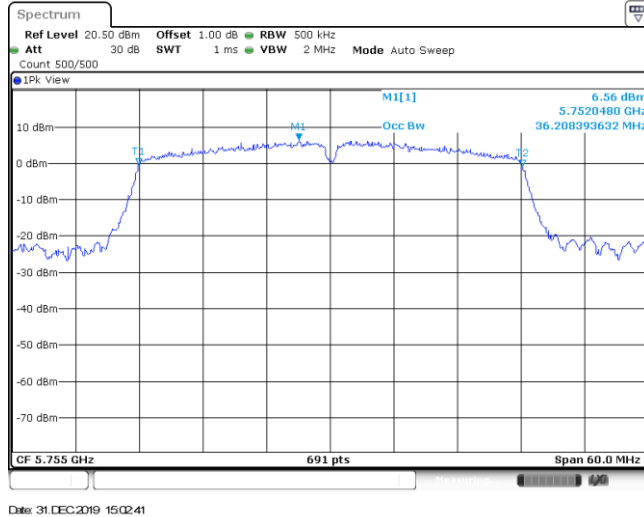
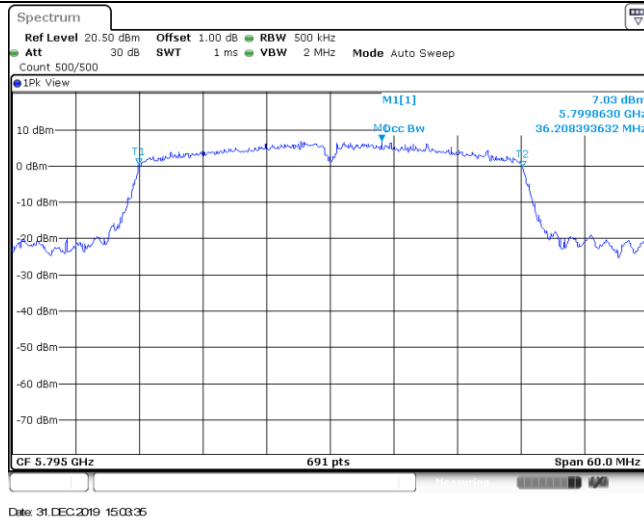
Band IV	802.11n (HT20)
CH _L	 Spectrum plot for CH_L channel. The plot shows a signal centered at 5.745 GHz with a peak level of 6.35 dBm. The signal is identified as M1[1]. The plot includes a 1001 pts span and a 30.0 MHz span. The date is 31.DEC.2019 21:07:04.
CH _M	 Spectrum plot for CH_M channel. The plot shows a signal centered at 5.785 GHz with a peak level of 6.31 dBm. The signal is identified as M1[1]. The plot includes a 1001 pts span and a 30.0 MHz span. The date is 31.DEC.2019 21:07:22.
CH _H	 Spectrum plot for CH_H channel. The plot shows a signal centered at 5.825 GHz with a peak level of 5.68 dBm. The signal is identified as M1[1]. The plot includes a 1001 pts span and a 30.0 MHz span. The date is 31.DEC.2019 21:09:34.

Band IV		802.11a
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.745 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:05:04	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.785 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:05:44	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT IPk View  CF 5.825 GHz1001 ptsSpan 30.0 MHz Date: 31.DEC.2019 21:03:18	



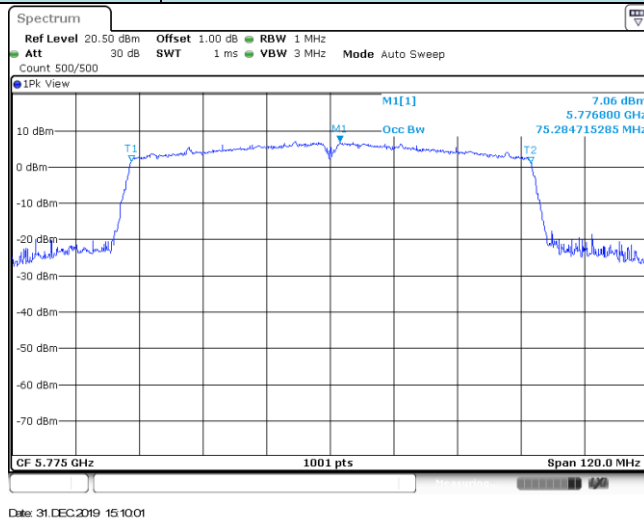
Band IV

802.11n (HT40)

CH_LCH_H

Band IV

802.11ac (HT80)

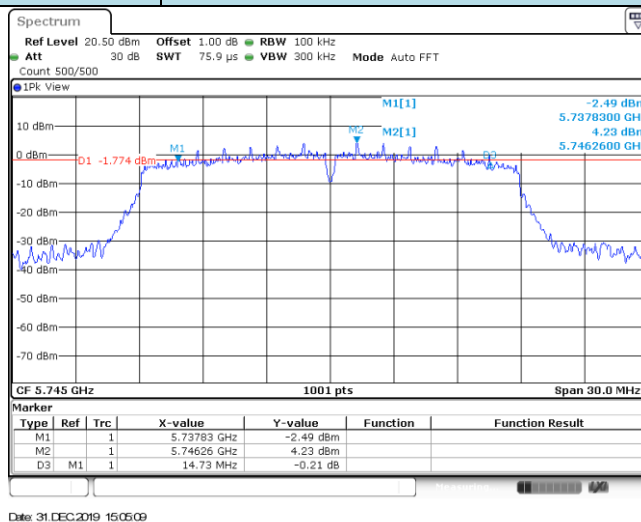
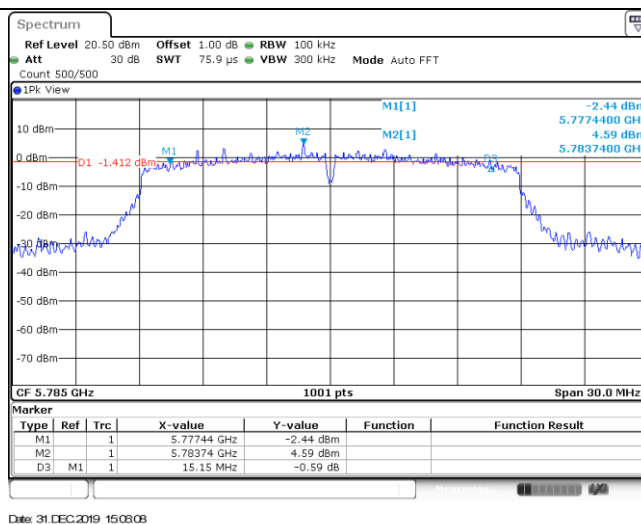
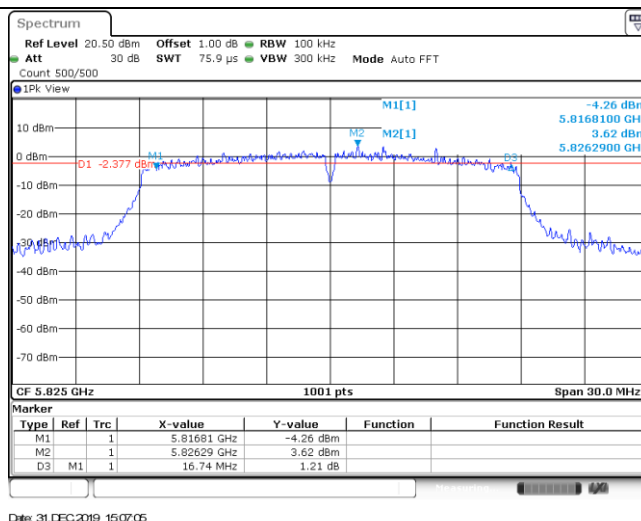
CH_M

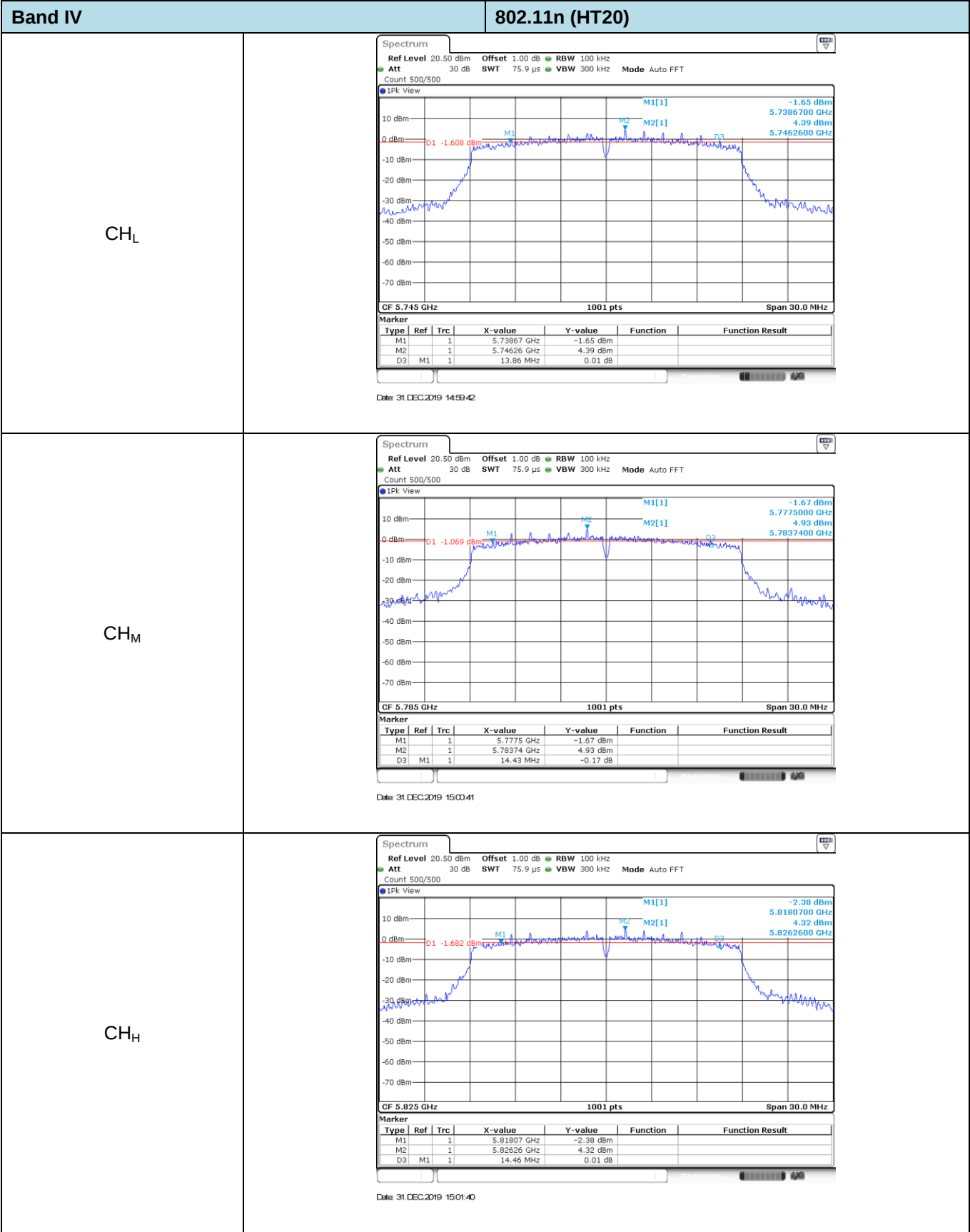
Appendix E: 6dB Bandwidth

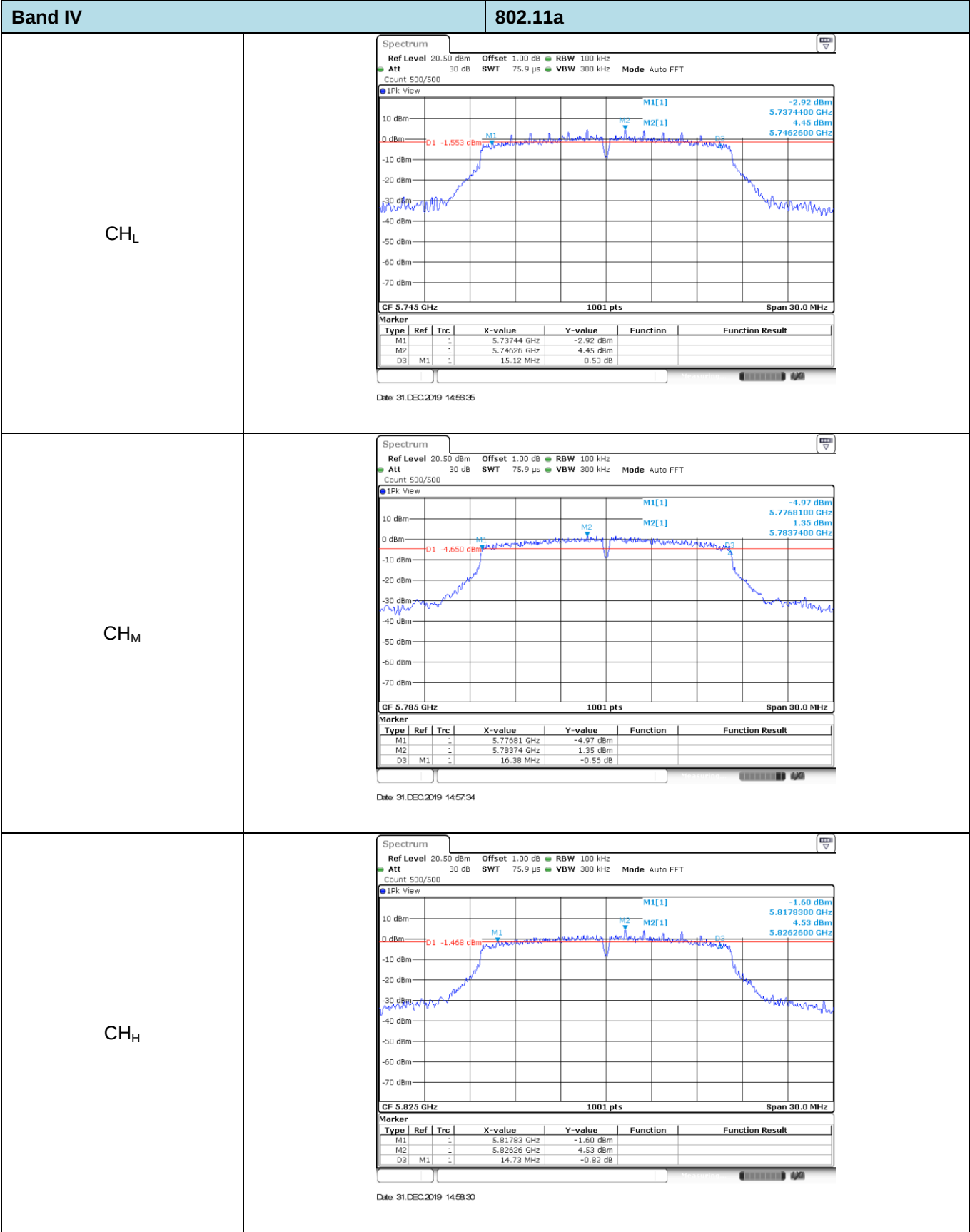
Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	14.73	Pass
			CH _M	15.15	
			CH _H	16.74	
		802.11n	CH _L	13.86	Pass
			CH _M	14.43	
			CH _H	14.46	
		802.11a	CH _L	15.12	Pass
			CH _M	16.38	
			CH _H	14.73	
	40	802.11ac	CH _L	35.22	Pass
			CH _H	35.28	
		802.11n	CH _L	35.30	Pass
			CH _H	35.30	
	80	802.11ac	CH _M	75.36	Pass

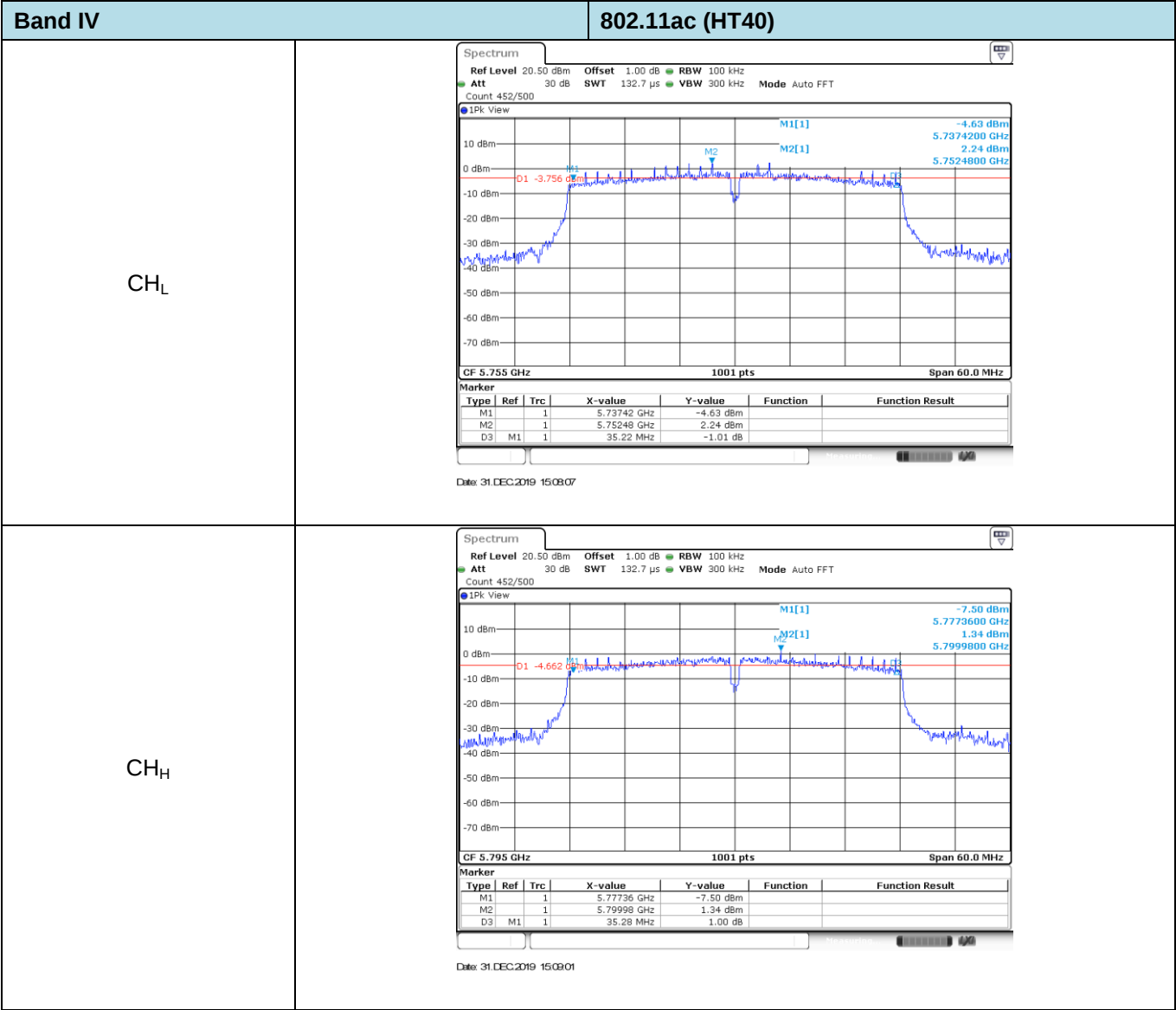
Band IV

802.11ac (HT20)

$$\text{CH}_L$$

$$\text{CH}_M$$

$$\text{CH}_H$$


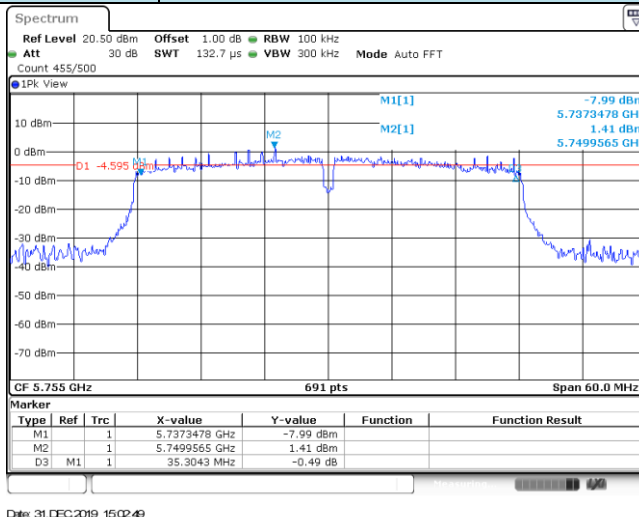
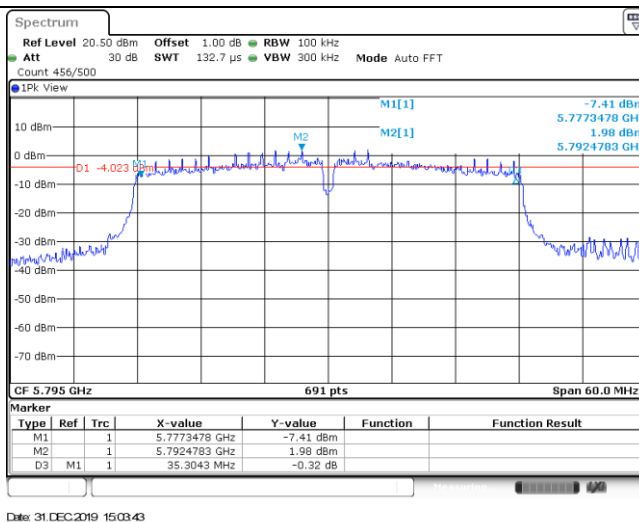






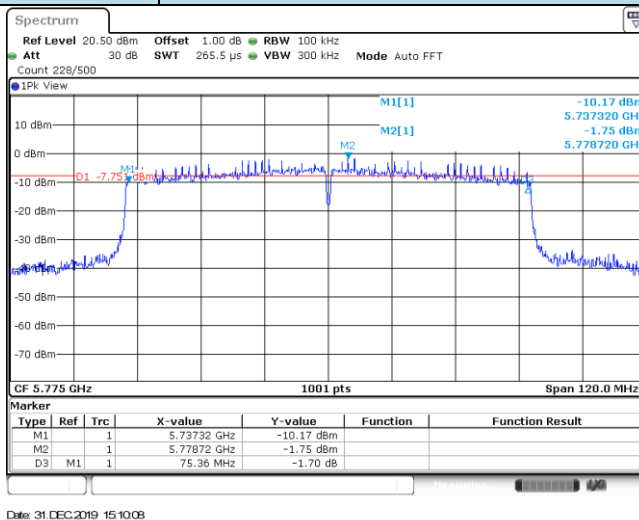
Band IV

802.11n (HT40)

CH_LCH_H

Band IV

802.11ac (HT80)

CH_M

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	0.00	0.00000	PASS
T _N	V _N	0.00	0.00000	PASS
T _N	V _H	0.00	0.00000	PASS

Band: II			Test Frequency: 5260.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	0.00	0.00000	PASS
T _N	V _N	0.00	0.00000	PASS
T _N	V _H	0.00	0.00000	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	0.00	0.00000	PASS
T _N	V _N	-1000.00	-0.17406	PASS
T _N	V _H	0.00	0.00000	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	-1000.00	-0.19305	PASS
V _N	-10	-1000.00	-0.19305	PASS
V _N	0	-1000.00	-0.19305	PASS
V _N	10	-2000.00	-0.38610	PASS
V _N	20	-2000.00	-0.38610	PASS
V _N	30	-2000.00	-0.38610	PASS
V _N	40	-2000.00	-0.38610	PASS
V _N	50	-2000.00	-0.38610	PASS

Band: II			Test Frequency: 5260.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	-1000.00	-0.19011	PASS
V _N	-10	-1000.00	-0.19011	PASS
V _N	0	-1000.00	-0.19011	PASS
V _N	10	-1000.00	-0.19011	PASS
V _N	20	-1000.00	-0.19011	PASS
V _N	30	-2000.00	-0.38023	PASS
V _N	40	-2000.00	-0.38023	PASS
V _N	50	-2000.00	-0.38023	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	-1000.00	-0.17406	PASS
V _N	-10	-1000.00	-0.17406	PASS
V _N	0	-2000.00	-0.34813	PASS
V _N	10	-2000.00	-0.34813	PASS
V _N	20	-2000.00	-0.34813	PASS
V _N	30	-3000.00	-0.52219	PASS
V _N	40	-3000.00	-0.52219	PASS
V _N	50	-3000.00	-0.52219	PASS

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