

APPENDIX REPORT

Project No.	SHT2005099309EW	Radio Specification	WIFI 5G
Test sample No.	YPHT20050993037	Model No.	TE590P
Start test date	2020/7/15	Finish date	2020/7/16
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

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	15.48	100	0	15.48	24.00	Pass
			CH _M	17.18	100	0	17.18		
			CH _H	16.68	100	0	16.68		
		802.11n	CH _L	15.78	100	0	15.78	24.00	Pass
			CH _M	17.23	100	0	17.23		
			CH _H	16.79	100	0	16.79		
		802.11a	CH _L	14.21	100	0	14.21	24.00	Pass
			CH _M	16.14	100	0	16.14		
			CH _H	16.82	100	0	16.82		
	40	802.11ac	CH _L	15.59	100	0	15.59	24.00	Pass
			CH _H	16.54	100	0	16.54		
		802.11n	CH _L	15.80	100	0	15.80	24.00	Pass
			CH _H	16.80	100	0	16.80		
	80	802.11ac	CH _M	15.62	100	0	15.62	24.00	Pass
II	20	802.11ac	CH _L	16.50	100	0	16.50	24.00	Pass
			CH _M	16.33	100	0	16.33		
			CH _H	16.71	100	0	16.71		
		802.11n	CH _L	15.64	100	0	15.64	24.00	Pass
			CH _M	15.57	100	0	15.57		
			CH _H	16.29	100	0	16.29		
		802.11a	CH _L	15.31	100	0	15.31	24.00	Pass
			CH _M	15.36	100	0	15.36		
			CH _H	15.26	100	0	15.26		

	40	802.11ac	CH _L	14.99	100	0	14.99	24.00	Pass
			CH _H	15.28	100	0	15.28		
		802.11n	CH _L	15.86	100	0	15.86	24.00	Pass
			CH _H	15.54	100	0	15.54		
	80	802.11ac	CH _M	15.03	100	0	15.03	24.00	Pass

Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
IV	20	802.11ac	CH _L	16.06	100	0	16.06	30.00	Pass
			CH _M	15.52	100	0	15.52		
			CH _H	15.49	100	0	15.49		
		802.11n	CH _L	15.98	100	0	15.98	30.00	Pass
			CH _M	15.65	100	0	15.65		
			CH _H	15.47	100	0	15.47		
		802.11a	CH _L	16.25	100	0	16.25	30.00	Pass
			CH _M	15.78	100	0	15.78		
			CH _H	15.50	100	0	15.50		
	40	802.11ac	CH _L	15.03	100	0	15.03	30.00	Pass
			CH _H	14.75	100	0	14.75		
		802.11n	CH _L	15.01	100	0	15.01	30.00	Pass
			CH _H	14.74	100	0	14.74		
	80	802.11ac	CH _M	14.76	100	0	14.76	30.00	Pass

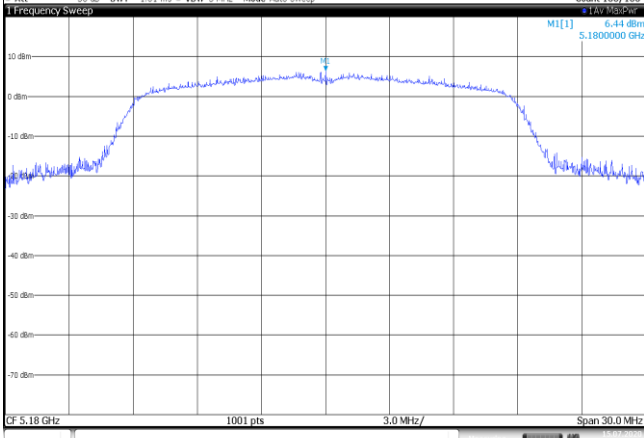
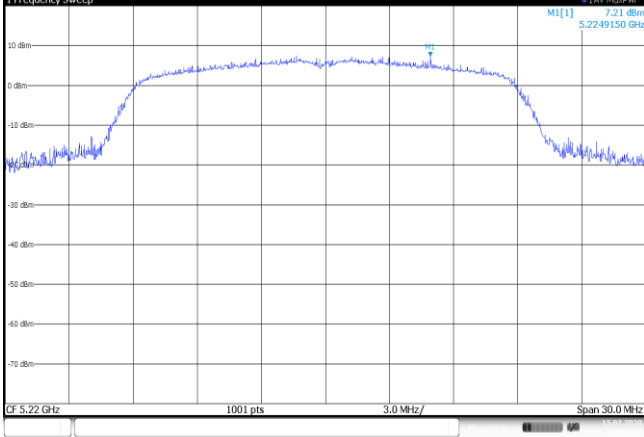
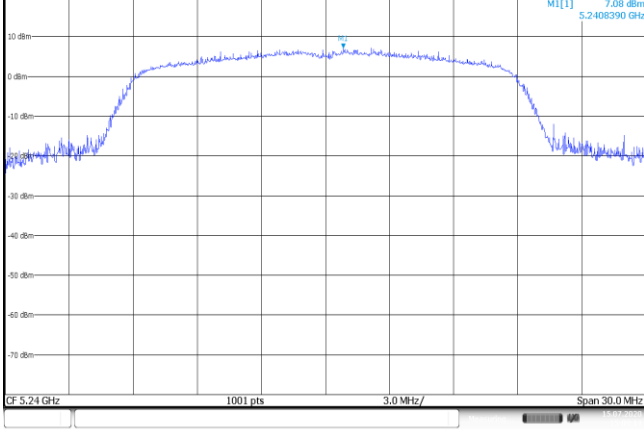
Appendix B: Maximum Power Spectral Density

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	5.82	100	0	5.82	11.00	Pass
			CH _M	7.12	100	0	7.12		
			CH _H	7.38	100	0	7.38		
		802.11n	CH _L	6.44	100	0	6.44	11.00	Pass
			CH _M	7.21	100	0	7.21		
			CH _H	7.08	100	0	7.08		
		802.11a	CH _L	5.16	100	0	5.16	11.00	Pass
			CH _M	6.46	100	0	6.46		
			CH _H	7.56	100	0	7.56		
	40	802.11ac	CH _L	3.52	100	0	3.52	11.00	Pass
			CH _H	3.97	100	0	3.97		
		802.11n	CH _L	4.22	100	0	4.22	11.00	Pass
			CH _H	4.97	100	0	4.97		
	80	802.11ac	CH _M	-0.38	100	0	-0.38	11.00	Pass
II	20	802.11ac	CH _L	6.85	100	0	6.85	11.00	Pass
			CH _M	7.16	100	0	7.16		
			CH _H	7.49	100	0	7.49		
		802.11n	CH _L	6.06	100	0	6.06	11.00	Pass
			CH _M	6.30	100	0	6.30		
			CH _H	6.38	100	0	6.38		
		802.11a	CH _L	5.47	100	0	5.47	11.00	Pass
			CH _M	6.25	100	0	6.25		
			CH _H	6.14	100	0	6.14		
	40	802.11ac	CH _L	3.02	100	0	3.02	11.00	Pass
			CH _H	2.94	100	0	2.94		
		802.11n	CH _L	3.67	100	0	3.67	11.00	Pass
			CH _H	3.08	100	0	3.08		
	80	802.11ac	CH _M	-0.20	100	0	-0.20	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	4.60	100	0	4.60	30.00	Pass
			CH _M	3.96	100	0	3.96		
			CH _H	4.06	100	0	4.06		
		802.11n	CH _L	5.35	100	0	5.35	30.00	Pass
			CH _M	3.65	100	0	3.65		
			CH _H	3.95	100	0	3.95		
		802.11a	CH _L	5.34	100	0	5.34	30.00	Pass
			CH _M	4.15	100	0	4.15		
			CH _H	3.80	100	0	3.80		
	40	802.11ac	CH _L	0.81	100	0	0.81	30.00	Pass
			CH _H	-0.26	100	0	-0.26		
		802.11n	CH _L	0.42	100	0	0.42	30.00	Pass
			CH _H	-0.80	100	0	-0.80		
	80	802.11ac	CH _M	-3.33	100	0	-3.33	30.00	Pass

Test plot as follows:

Band I		802.11ac (HT20)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 1 Flat Noise Per 1 Frequency Sweep		

Band I		802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.18 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 15 JUL 2020 14:58:37	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.22 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 15 JUL 2020 15:02:34	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.24 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 15 JUL 2020 15:08:13	

Band I		802.11a
CH _L	Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 5.1812590 GHz 5.1812590 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15.JUL.2020 14:41:36	
CH _M	Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 5.2225170 GHz 5.2225170 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15.JUL.2020 14:48:55	
CH _H	Ref Level 20.00 dBm Offset 1.00 dB BW 1 MHz Att 30 dB SW 1.01 ms VBW 3 kHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 5.2426670 GHz 5.2426670 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15.JUL.2020 14:53:40	

Band I		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 9.52 dBm 5.1926970 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 15 JUL 2020 15:35:44	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 9.07 dBm 5.2338960 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 15 JUL 2020 15:39:31	

Band I

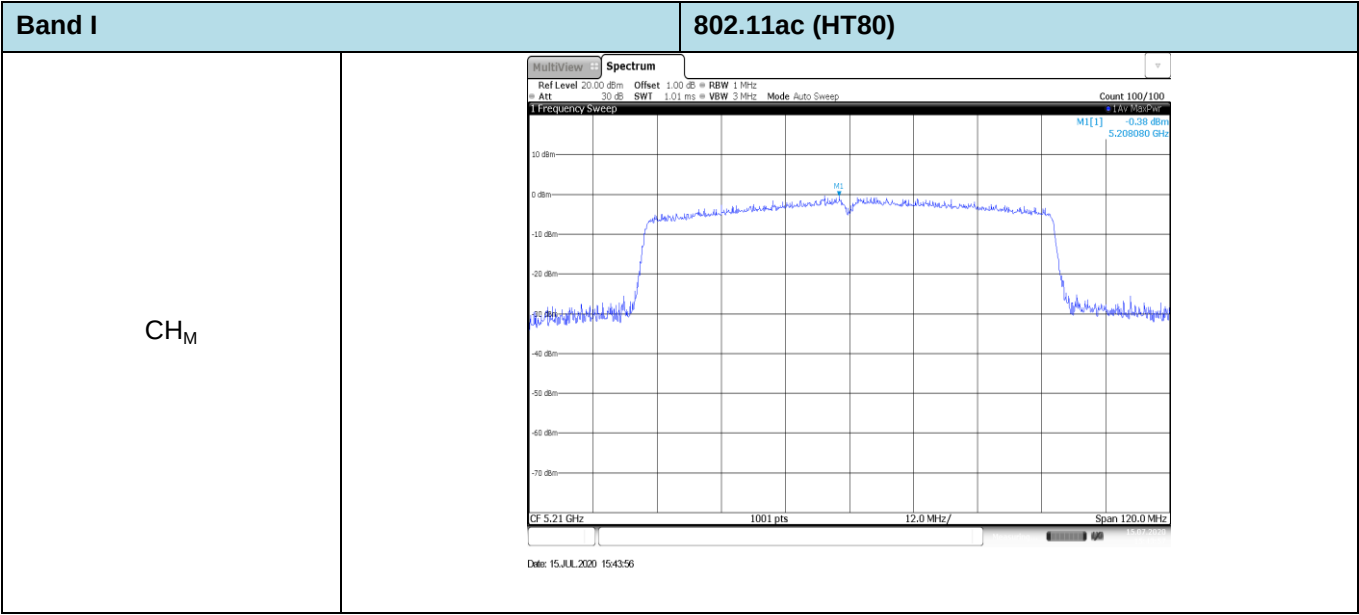
802.11n (HT40)

CH_L

MultiView Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz
Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep
Count 100/100
MI[1] 4.22 dBm
5.1922180 GHz
Frequency Sweep
30 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz
Date: 15.JUL.2020 15:12:19

CH_H

MultiView Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz
Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep
Count 100/100
MI[1] 4.97 dBm
5.2329970 GHz
Frequency Sweep
30 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.23 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz
Date: 15.JUL.2020 15:17:47

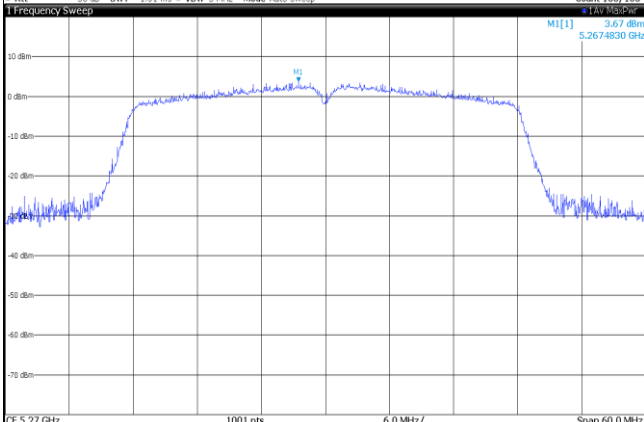
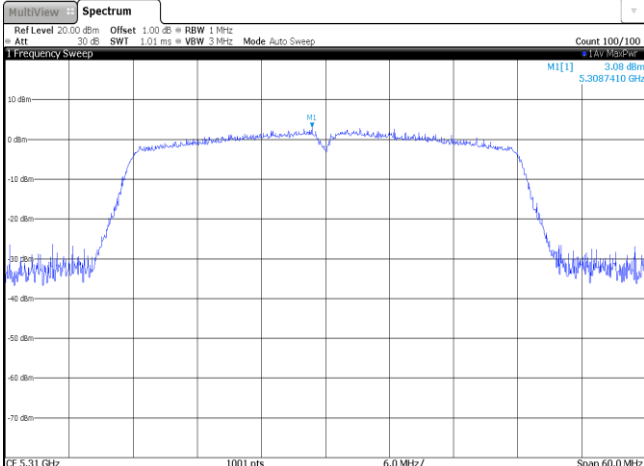


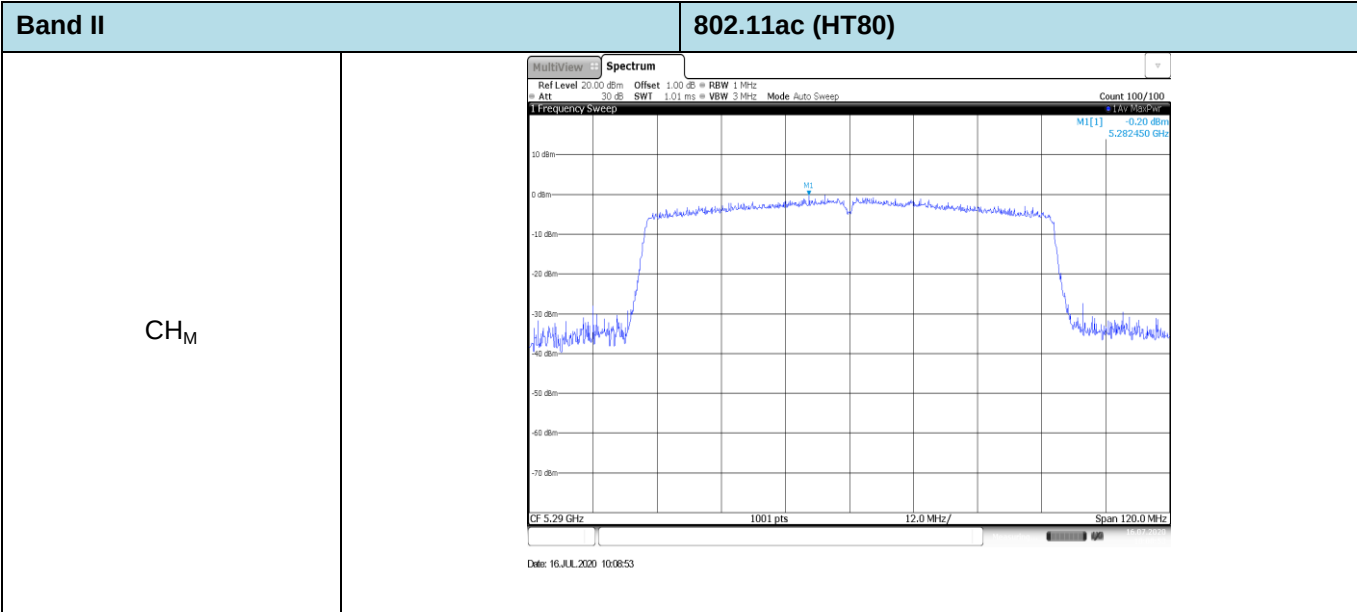
Band II		802.11ac (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 174.23527 Frequency Sweep 5.26 GHz 5.2612590 GHz 5.30 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:48:27	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 174.23527 Frequency Sweep 5.28 GHz 5.2805690 GHz 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:53:01	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 174.23527 Frequency Sweep 5.32 GHz 5.3191310 GHz 5.36 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:55:00	

Band II		802.11n (HT20)
CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 6.20 dBm 5.2614090 GHz OF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:15:40	
CH _M	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 6.20 dBm 5.2809290 GHz OF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:19:00	
CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 6.20 dBm 5.3179620 GHz OF 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:23:12	

Band II		802.11a
CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.47 dBm 5.2598800 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 09:02:32	
CH _M	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 6.25 dBm 5.2817980 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 09:09:34	
CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 6.14 dBm 5.3185610 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 5.32 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 09:11:21	

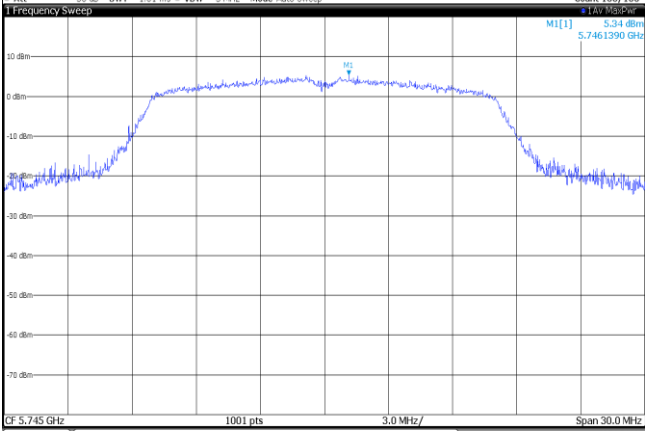
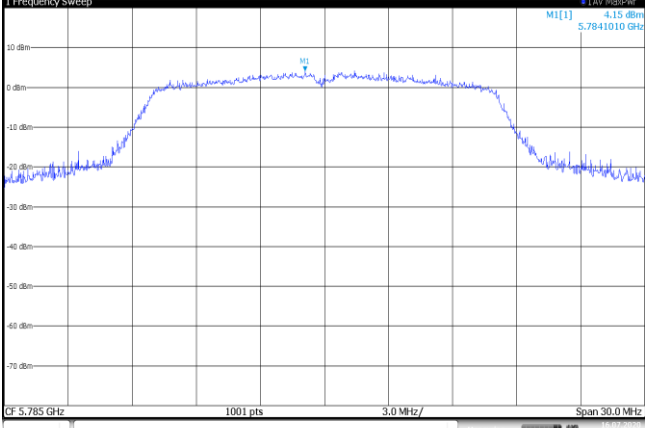
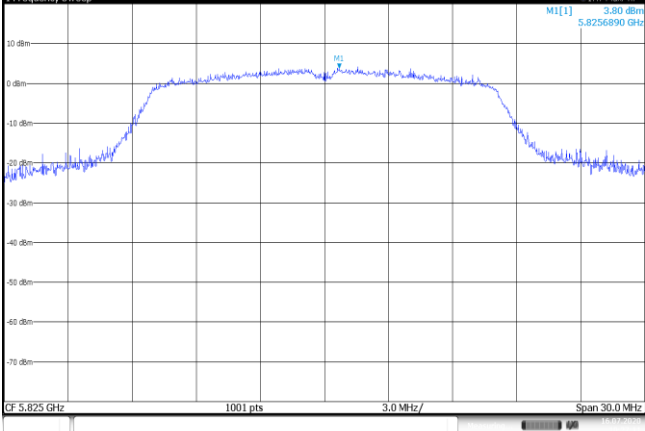
Band II		802.11ac (HT40)
CH _L	MultView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 9.02 dBm 5.2713790 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.27 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 16 JUL 2020 10:03:40	
CH _H	MultView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 2.94 dBm 5.3076620 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: 16 JUL 2020 10:05:53	

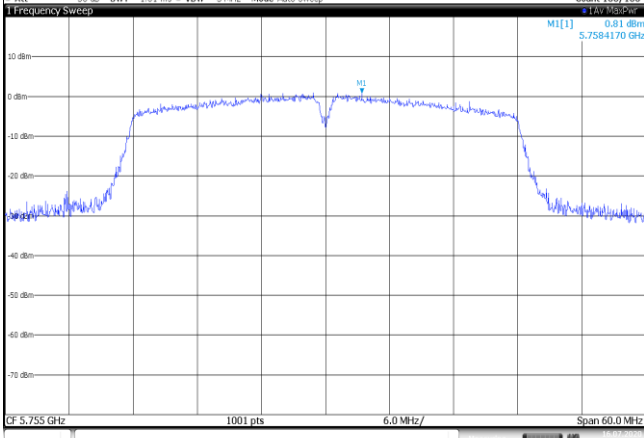
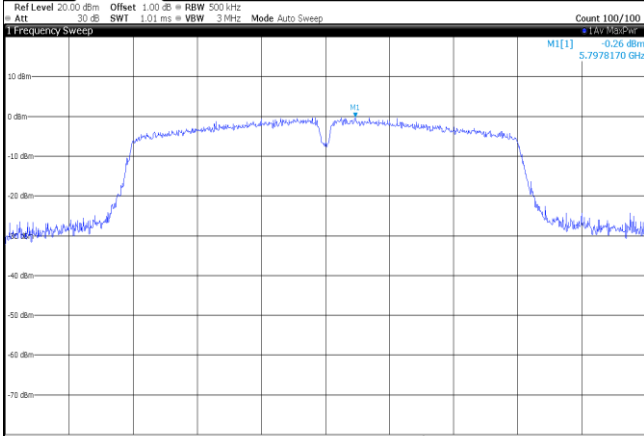
Band II		802.11n (HT40)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att -30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.27 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 16 JUL 2020 09:28:22		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att -30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.31 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 16 JUL 2020 09:33:28		



Band IV		802.11ac (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.110520 GHz 4.60 dBm 5.7433520 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:42:12	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.110520 GHz 3.96 dBm 5.7841610 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:44:50	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.110520 GHz 4.06 dBm 5.8267380 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:47:42	

Band IV		802.11n (HT20)
CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.745710 GHz 5.7440710 GHz Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm OF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:31:10	
CH _M	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.7858910 GHz 5.7828910 GHz Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm OF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:33:28	
CH _H	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 5.8258720 GHz 5.8228720 GHz Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm OF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:35:07	

Band IV		802.11a
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 11.710529 GHz M1[1] 5.54 dBm 5.7461390 GHz  CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 10:22:39	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 11.710529 GHz M1[1] 4.15 dBm 5.7841010 GHz  CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 10:25:06	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 11.710529 GHz M1[1] 3.80 dBm 5.8256890 GHz  CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 10:27:10	

Band IV		802.11ac (HT40)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 0.81 dBm 5.7584170 GHz  CF 5.755 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 16 JUL 2020 10:50:25		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.1052 GHz 0.26 dBm 5.7978170 GHz  CF 5.795 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 16 JUL 2020 10:52:20		

Band IV

802.11n (HT40)

CH_L

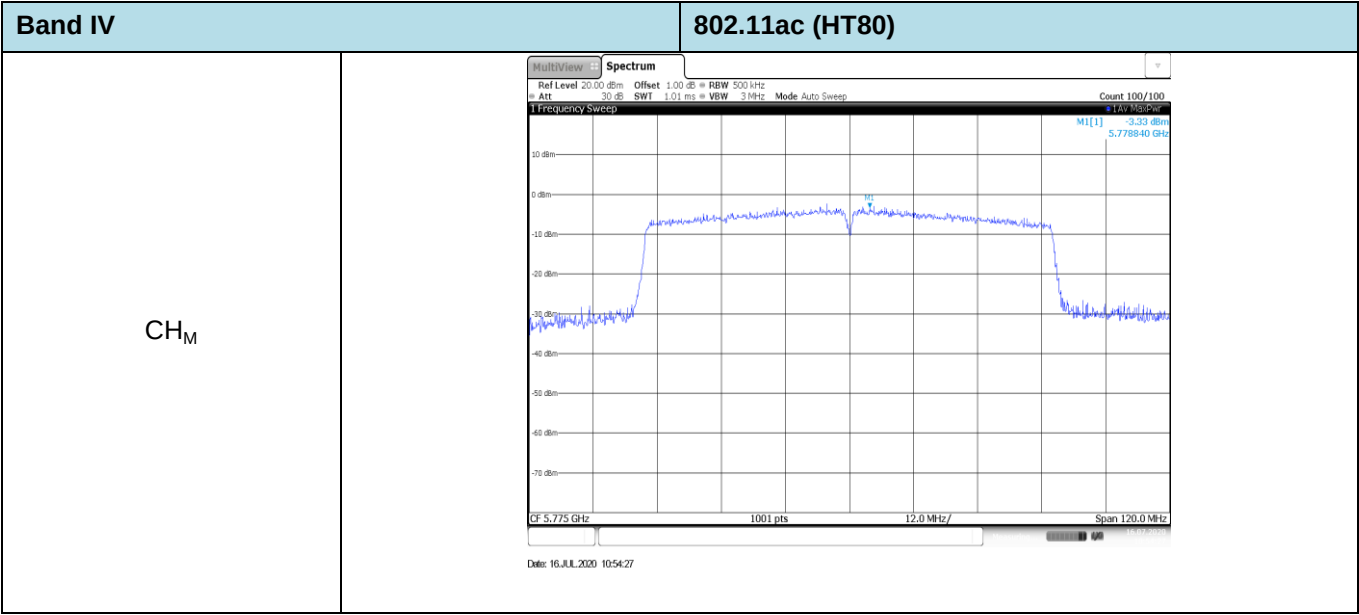
The spectrum plot for CH_L shows a signal centered at 5.755 GHz. The y-axis represents power in dBm, ranging from -70 to 30. The x-axis represents frequency in GHz, ranging from 5.755 to 5.815. A peak is marked at 5.7516430 GHz with a power of -0.42 dBm. The plot includes a frequency sweep and a peak marker at 5.7516430 GHz.

Date: 16.JUL.2020 10:37:41

CH_H

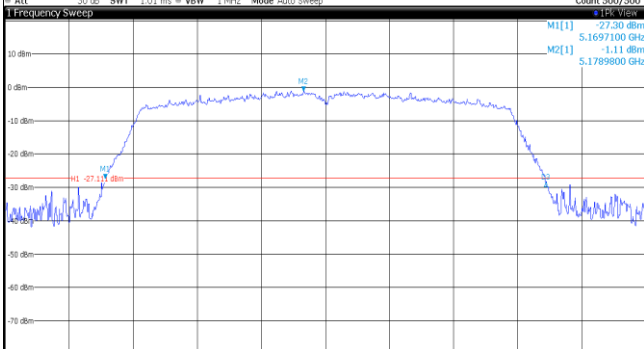
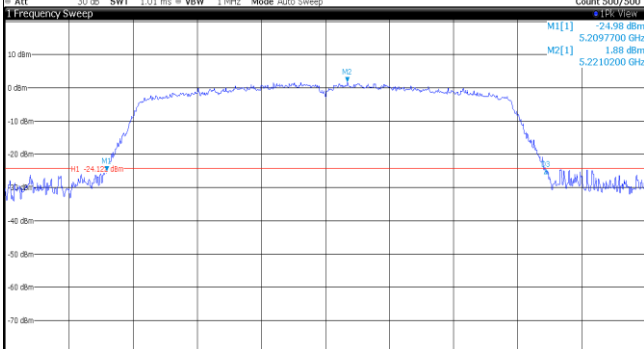
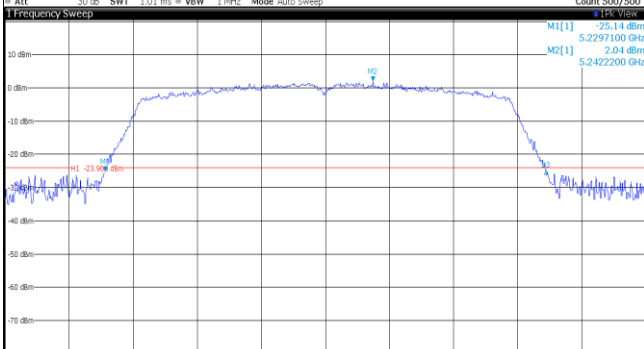
The spectrum plot for CH_H shows a signal centered at 5.795 GHz. The y-axis represents power in dBm, ranging from -70 to 30. The x-axis represents frequency in GHz, ranging from 5.795 to 5.855. A peak is marked at 5.7902050 GHz with a power of -0.80 dBm. The plot includes a frequency sweep and a peak marker at 5.7902050 GHz.

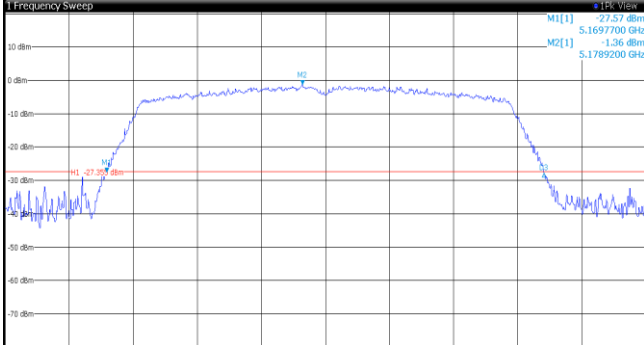
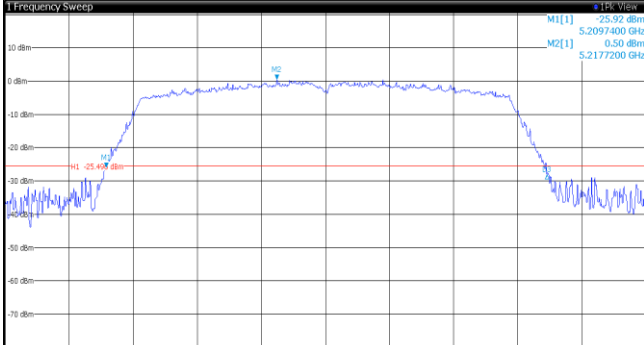
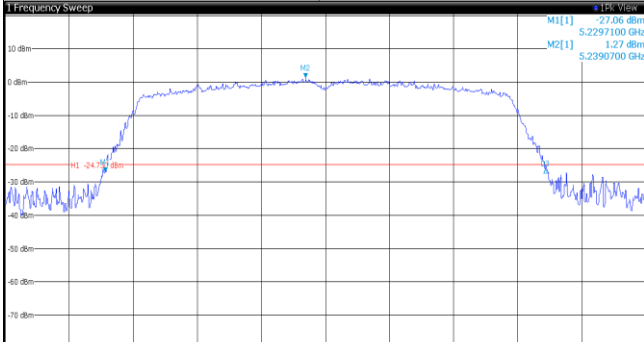
Date: 16.JUL.2020 10:40:00



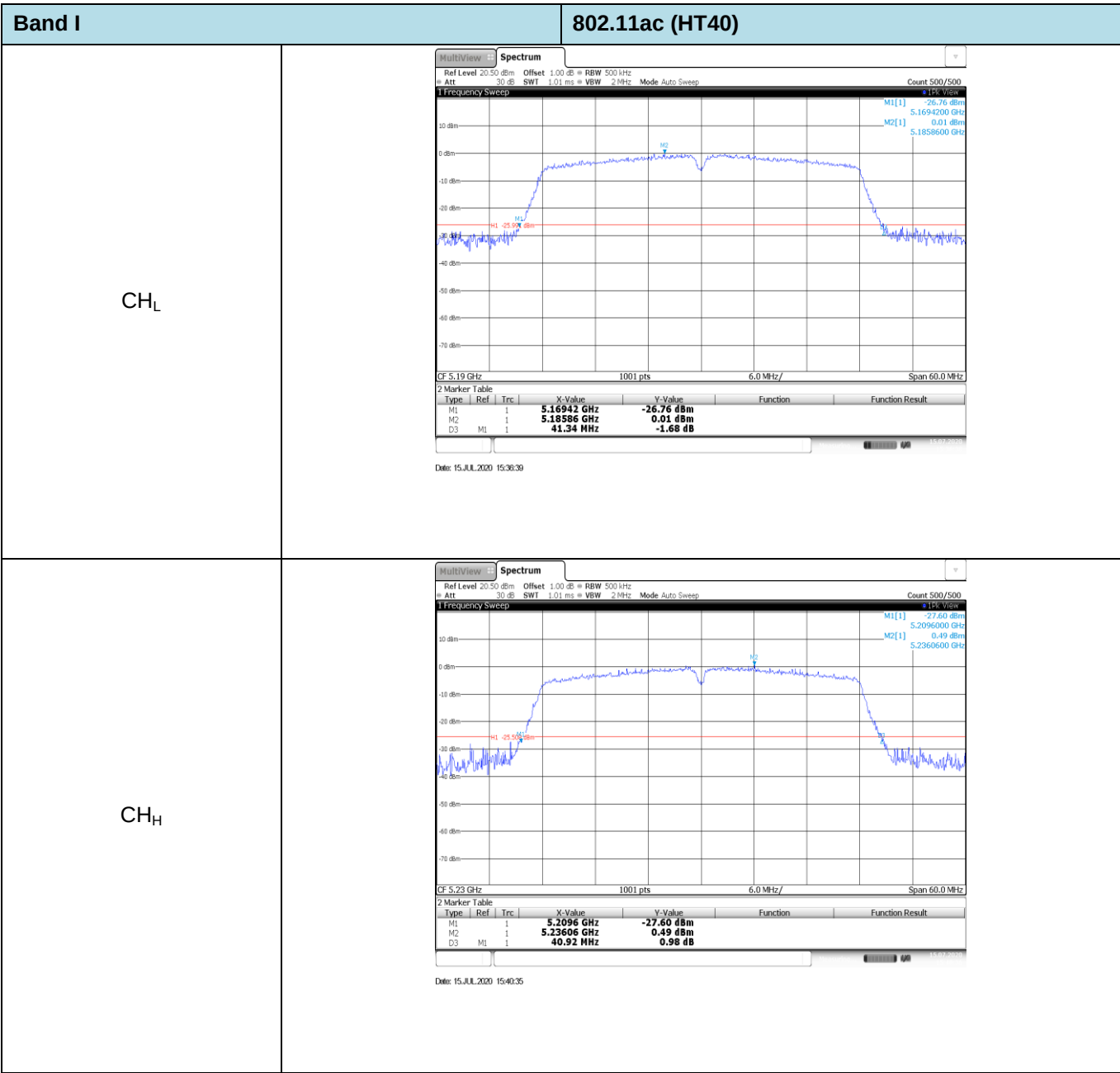
Appendix C: 26dB bandwidth

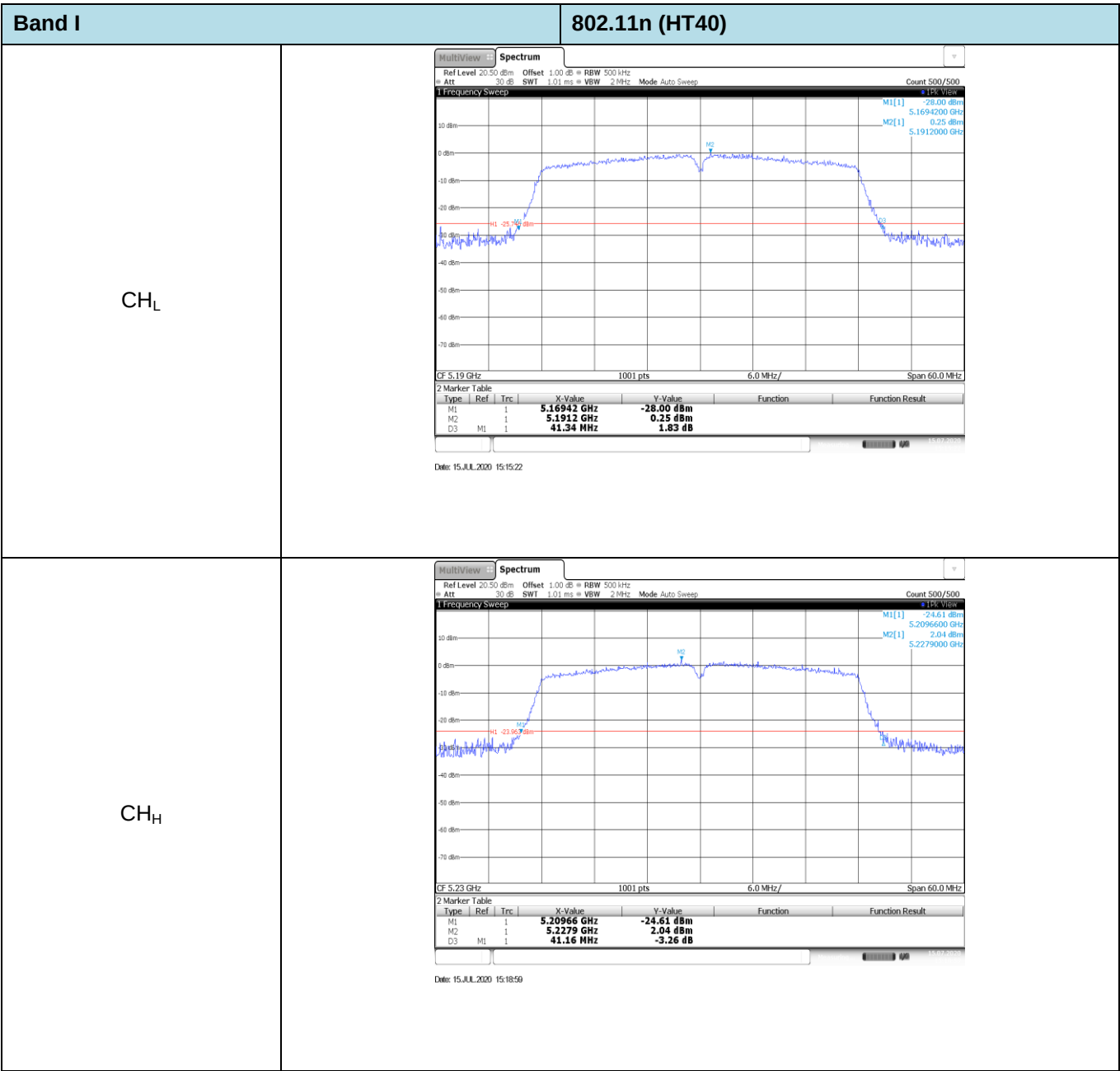
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.61	Pass
			CH _M	20.55	
			CH _H	20.61	
		802.11n	CH _L	20.46	Pass
			CH _M	20.64	
			CH _H	20.58	
		802.11a	CH _L	20.46	Pass
			CH _M	20.25	
			CH _H	20.22	
	40	802.11ac	CH _L	41.34	Pass
			CH _H	40.92	
		802.11n	CH _L	41.34	Pass
			CH _H	41.16	
	80	802.11ac	CH _M	81.48	Pass
II	20	802.11ac	CH _L	20.52	Pass
			CH _M	20.55	
			CH _H	20.58	
		802.11n	CH _L	20.58	Pass
			CH _M	20.52	
			CH _H	20.61	
		802.11a	CH _L	20.31	Pass
			CH _M	20.37	
			CH _H	20.25	
	40	802.11ac	CH _L	41.04	Pass
			CH _H	40.80	
		802.11n	CH _L	40.98	Pass
			CH _H	40.62	
	80	802.11ac	CH _M	81.24	Pass

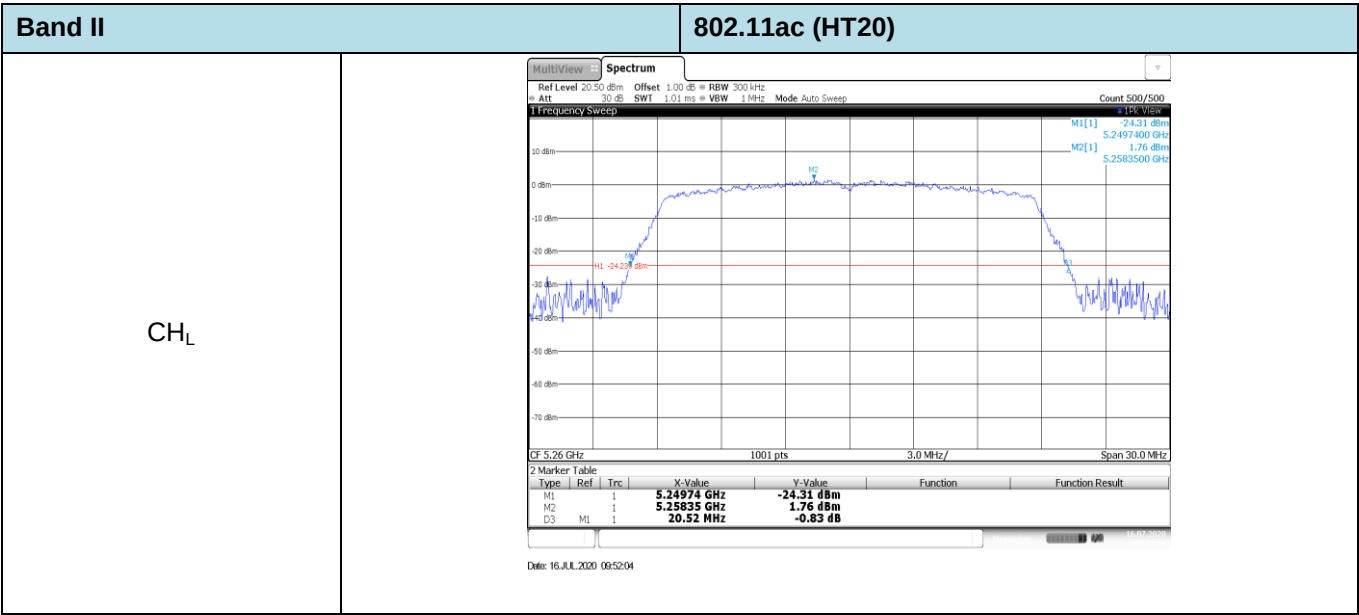
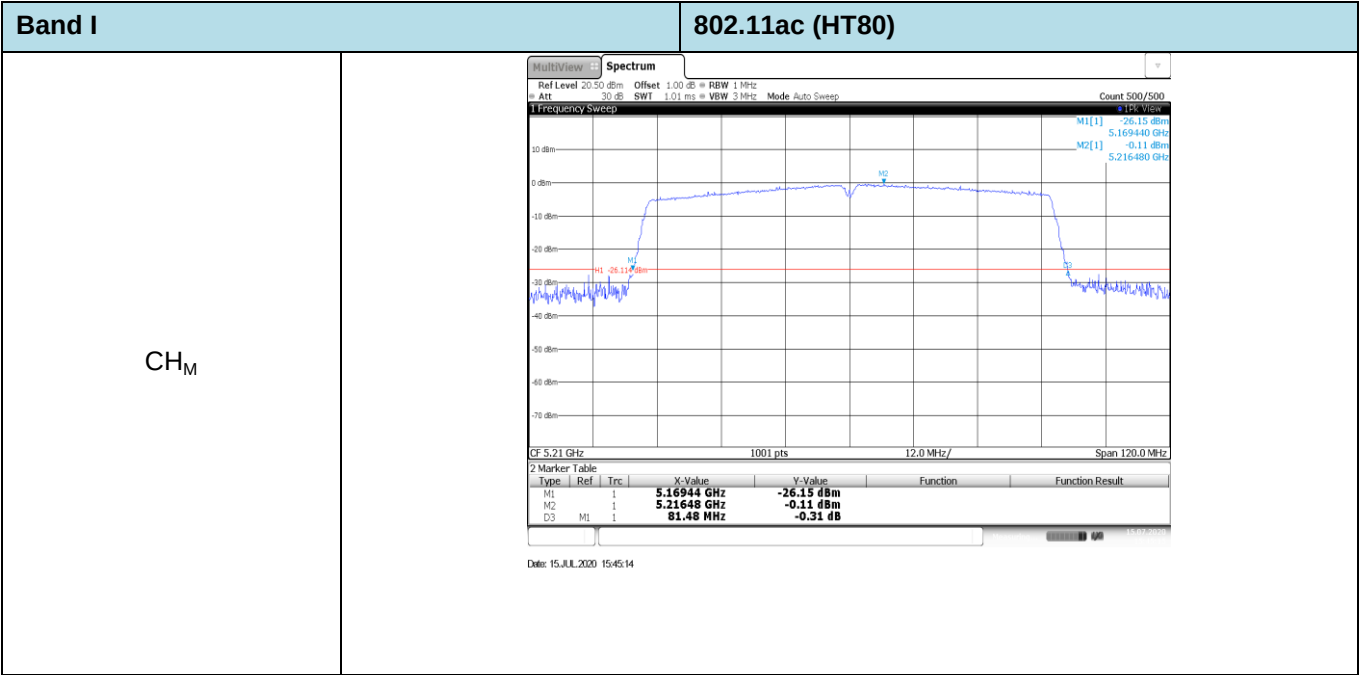
Band I		802.11ac (HT20)																											
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.18 GHz1001 pts3.0 MHz/Span 30.0 MHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</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>5.16971 GHz</td><td>-27.30 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17898 GHz</td><td>-1.11 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.61 MHz</td><td>-1.10 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 13:40:14	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16971 GHz	-27.30 dBm			M2	1		5.17898 GHz	-1.11 dBm			D3	M1	1	20.61 MHz	-1.10 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.16971 GHz	-27.30 dBm																									
M2	1		5.17898 GHz	-1.11 dBm																									
D3	M1	1	20.61 MHz	-1.10 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>5.20977 GHz</td><td>-24.98 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.22102 GHz</td><td>1.88 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.55 MHz</td><td>0.45 dB</td><td></td><td></td></tr></table> Date: 15 JUL 2020 15:29:33	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20977 GHz	-24.98 dBm			M2	1		5.22102 GHz	1.88 dBm			D3	M1	1	20.55 MHz	0.45 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.20977 GHz	-24.98 dBm																									
M2	1		5.22102 GHz	1.88 dBm																									
D3	M1	1	20.55 MHz	0.45 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>5.22971 GHz</td><td>-25.14 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.24222 GHz</td><td>2.04 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.61 MHz</td><td>0.43 dB</td><td></td><td></td></tr></table> Date: 15 JUL 2020 15:33:47	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22971 GHz	-25.14 dBm			M2	1		5.24222 GHz	2.04 dBm			D3	M1	1	20.61 MHz	0.43 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.22971 GHz	-25.14 dBm																									
M2	1		5.24222 GHz	2.04 dBm																									
D3	M1	1	20.61 MHz	0.43 dB																									

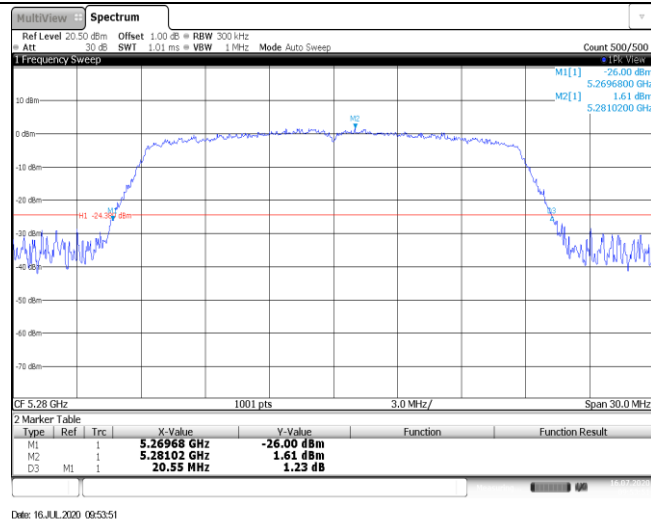
Band I		802.11n (HT20)																											
CH _L	MultViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</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>5.16977 GHz</td><td>-27.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17892 GHz</td><td>-1.36 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.46 MHz</td><td>-0.20 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 13:51:02	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16977 GHz	-27.57 dBm			M2	1		5.17892 GHz	-1.36 dBm			D3	M1	1	20.46 MHz	-0.20 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.16977 GHz	-27.57 dBm																									
M2	1		5.17892 GHz	-1.36 dBm																									
D3	M1	1	20.46 MHz	-0.20 dB																									
CH _M	MultViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  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>5.20974 GHz</td><td>-25.92 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.21772 GHz</td><td>0.50 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.64 MHz</td><td>-2.11 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 13:48:50	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20974 GHz	-25.92 dBm			M2	1		5.21772 GHz	0.50 dBm			D3	M1	1	20.64 MHz	-2.11 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.20974 GHz	-25.92 dBm																									
M2	1		5.21772 GHz	0.50 dBm																									
D3	M1	1	20.64 MHz	-2.11 dB																									
CH _H	MultViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  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>5.22971 GHz</td><td>-27.06 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.23907 GHz</td><td>1.27 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.58 MHz</td><td>1.03 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 13:49:08	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22971 GHz	-27.06 dBm			M2	1		5.23907 GHz	1.27 dBm			D3	M1	1	20.58 MHz	1.03 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.22971 GHz	-27.06 dBm																									
M2	1		5.23907 GHz	1.27 dBm																									
D3	M1	1	20.58 MHz	1.03 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 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>5.16974 GHz</td><td>-29.48 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.17823 GHz</td><td>-1.74 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.46 MHz</td><td>0.53 dB</td><td></td><td></td></tr></table> Date: 15 JUL 2020 14:51:03	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.16974 GHz	-29.48 dBm			M2	1		5.17823 GHz	-1.74 dBm			D3	M1	1	20.46 MHz	0.53 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.16974 GHz	-29.48 dBm																									
M2	1		5.17823 GHz	-1.74 dBm																									
D3	M1	1	20.46 MHz	0.53 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 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>5.20992 GHz</td><td>-25.69 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.2215 GHz</td><td>0.95 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.25 MHz</td><td>0.13 dB</td><td></td><td></td></tr></table> Date: 15 JUL 2020 14:50:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.20992 GHz	-25.69 dBm			M2	1		5.2215 GHz	0.95 dBm			D3	M1	1	20.25 MHz	0.13 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.20992 GHz	-25.69 dBm																									
M2	1		5.2215 GHz	0.95 dBm																									
D3	M1	1	20.25 MHz	0.13 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 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>5.22992 GHz</td><td>-24.68 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.24147 GHz</td><td>1.61 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.22 MHz</td><td>-0.34 dB</td><td></td><td></td></tr></table> Date: 15 JUL 2020 14:55:08	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.22992 GHz	-24.68 dBm			M2	1		5.24147 GHz	1.61 dBm			D3	M1	1	20.22 MHz	-0.34 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.22992 GHz	-24.68 dBm																									
M2	1		5.24147 GHz	1.61 dBm																									
D3	M1	1	20.22 MHz	-0.34 dB																									

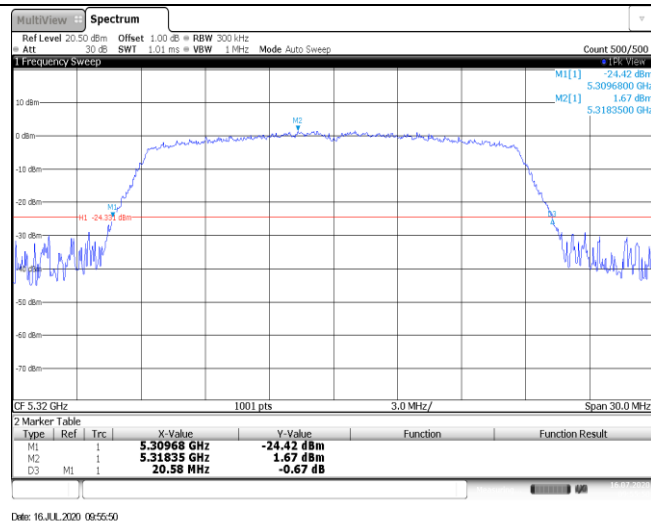






$$\text{CH}_M$$


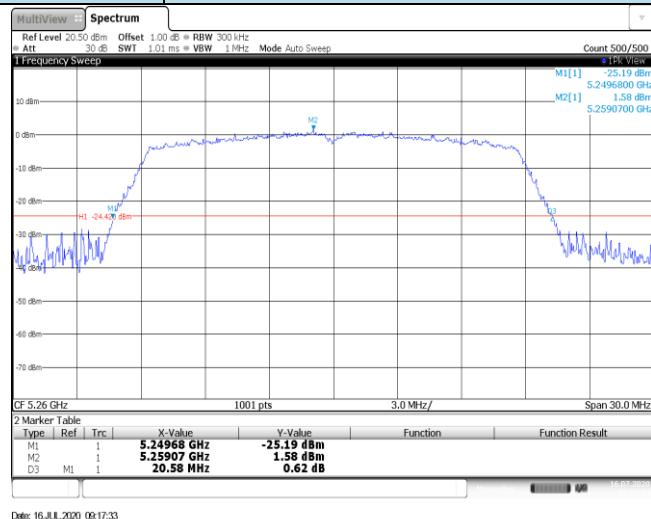
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$$\text{CH}_H$$


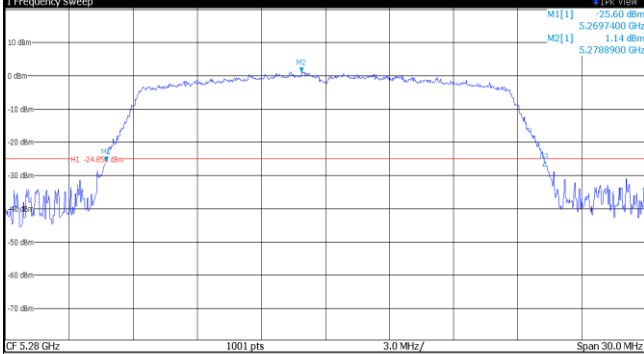
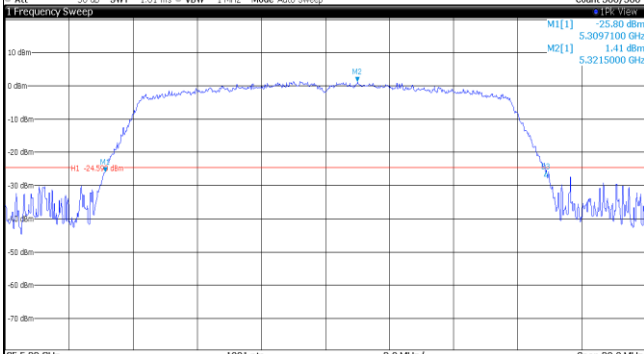
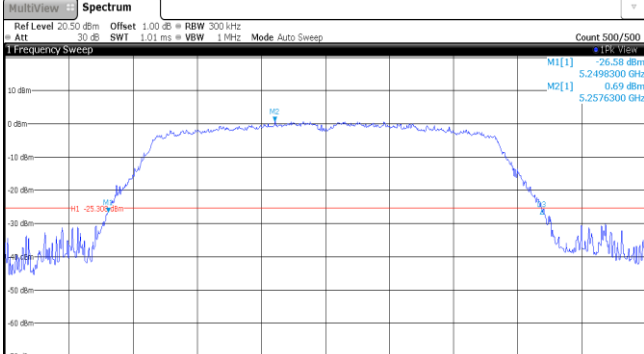
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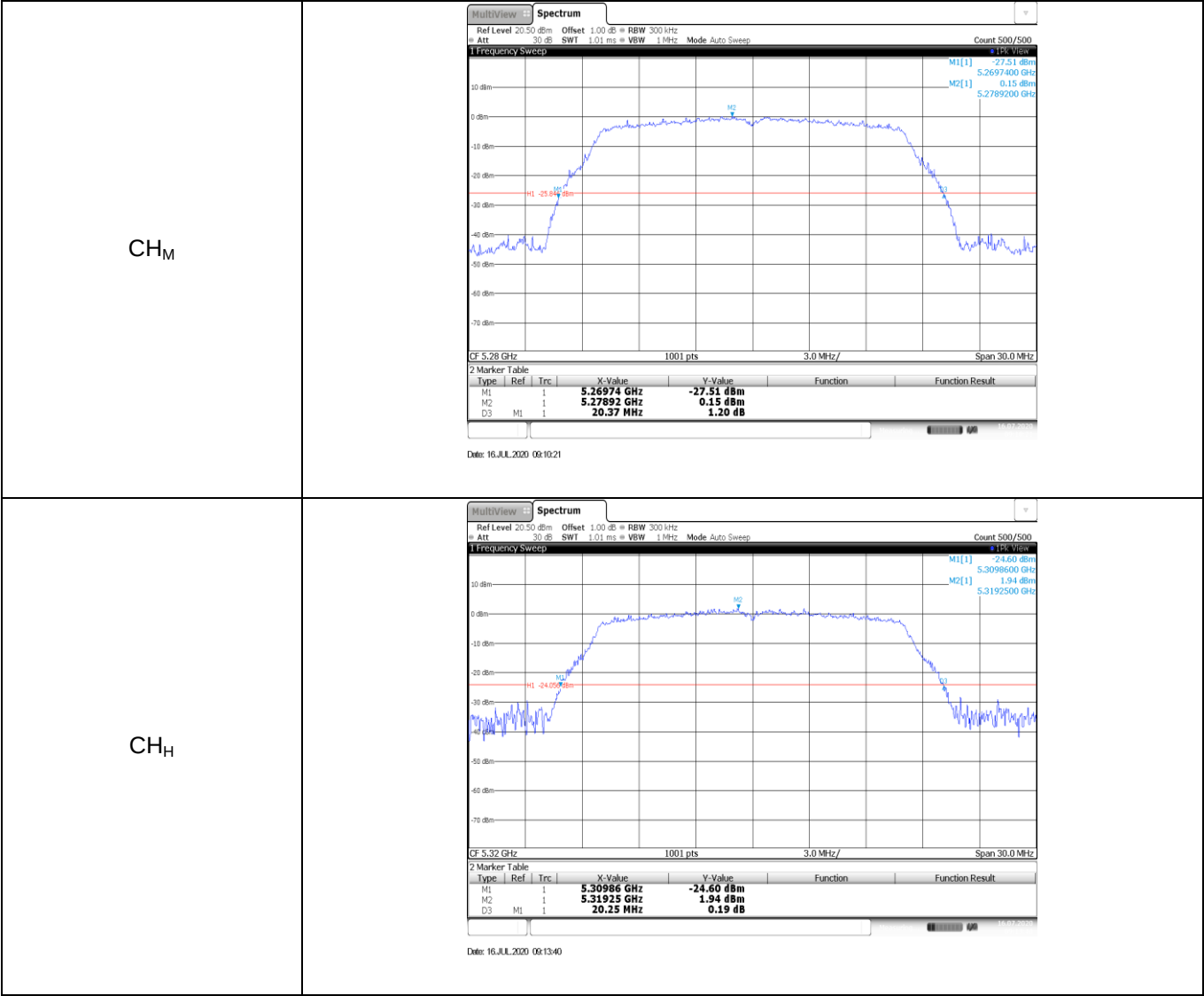
Band II

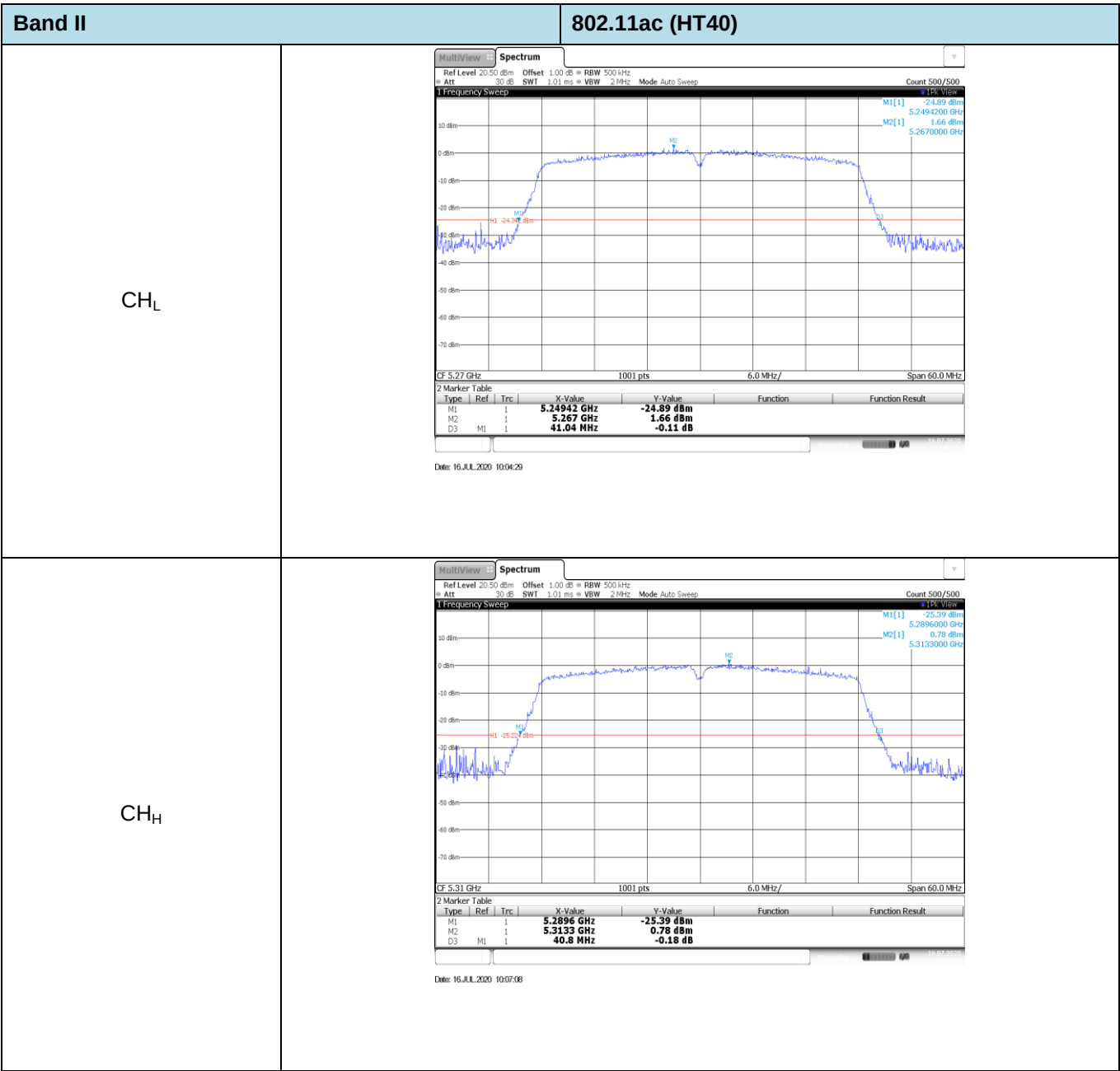
802.11n (HT20)

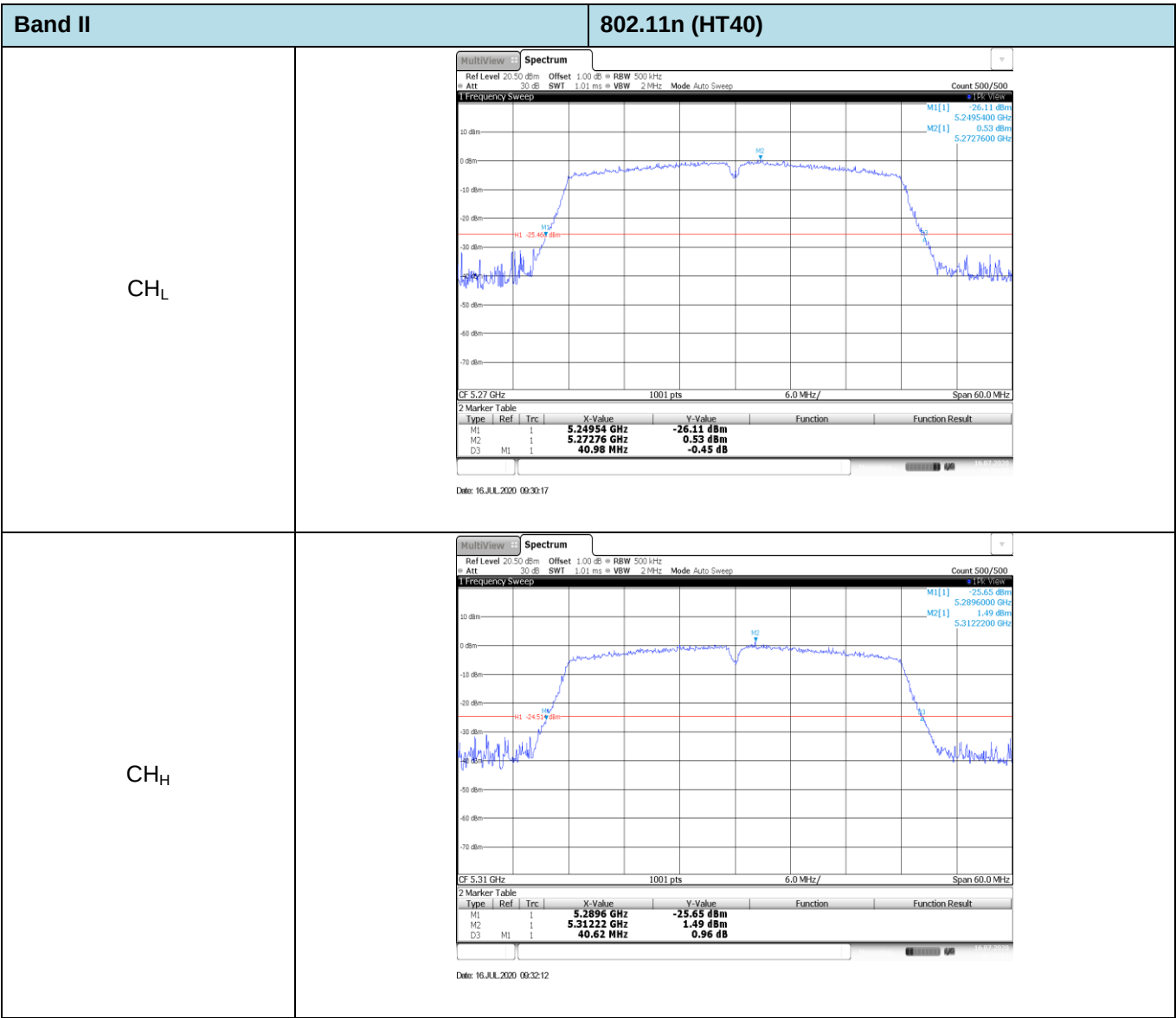
$$\text{CH}_L$$


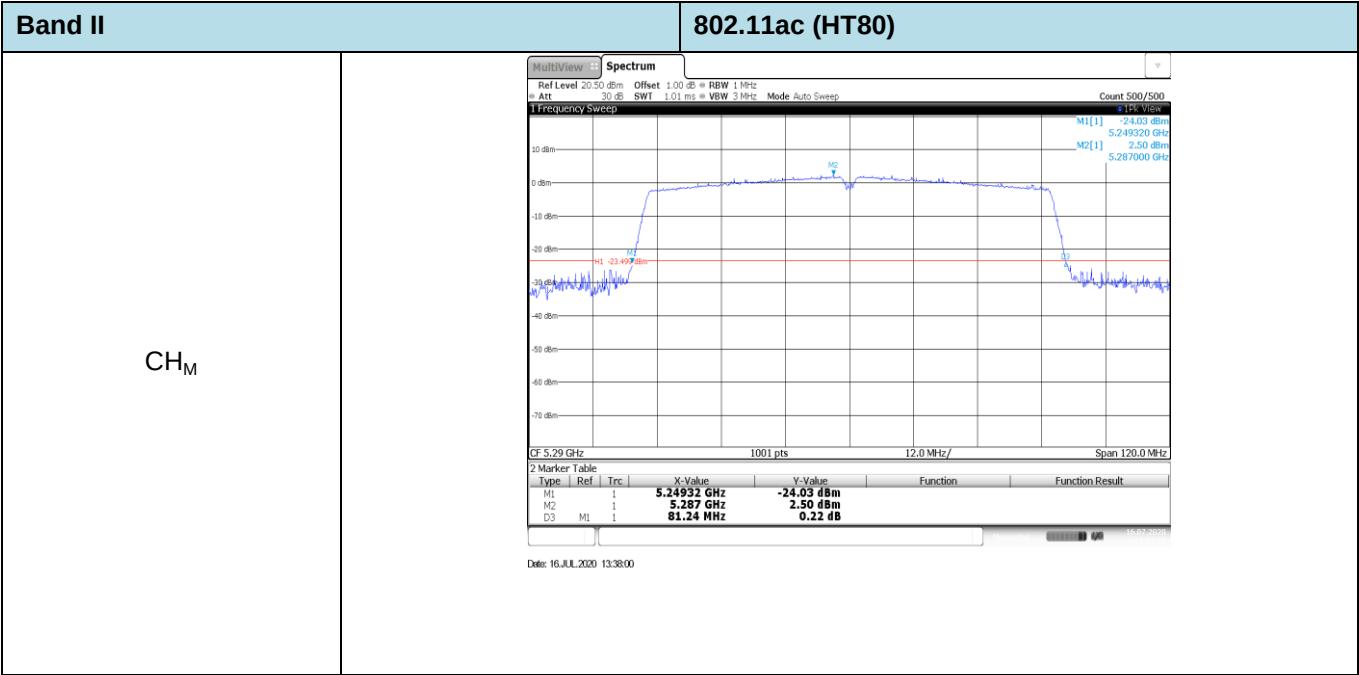
Date: 16.JUL.2020 09:17:33

CH _M	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att -30 dB SWT 1.01 ms VIEW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.28 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>5.26974 GHz</td><td>-25.60 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.27889 GHz</td><td>1.14 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.52 MHz</td><td>-0.31 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 09:10:40	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.26974 GHz	-25.60 dBm			M2	1		5.27889 GHz	1.14 dBm			D3	M1	1	20.52 MHz	-0.31 dB			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.26974 GHz	-25.60 dBm																										
M2	1		5.27889 GHz	1.14 dBm																										
D3	M1	1	20.52 MHz	-0.31 dB																										
CH _H	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att -30 dB SWT 1.01 ms VIEW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.32 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>5.30971 GHz</td><td>-25.80 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.32115 GHz</td><td>1.41 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.61 MHz</td><td>-0.03 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 09:25:46	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.30971 GHz	-25.80 dBm			M2	1		5.32115 GHz	1.41 dBm			D3	M1	1	20.61 MHz	-0.03 dB			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.30971 GHz	-25.80 dBm																										
M2	1		5.32115 GHz	1.41 dBm																										
D3	M1	1	20.61 MHz	-0.03 dB																										
Band II																														
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 VIEW 1 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep  CF 5.26 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>5.24983 GHz</td><td>-26.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.25763 GHz</td><td>0.69 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>20.31 MHz</td><td>0.71 dB</td><td></td><td></td></tr></table> Date: 16 JUL 2020 09:04:22	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.24983 GHz	-26.58 dBm			M2	1		5.25763 GHz	0.69 dBm			D3	M1	1	20.31 MHz	0.71 dB			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																								
M1	1		5.24983 GHz	-26.58 dBm																										
M2	1		5.25763 GHz	0.69 dBm																										
D3	M1	1	20.31 MHz	0.71 dB																										





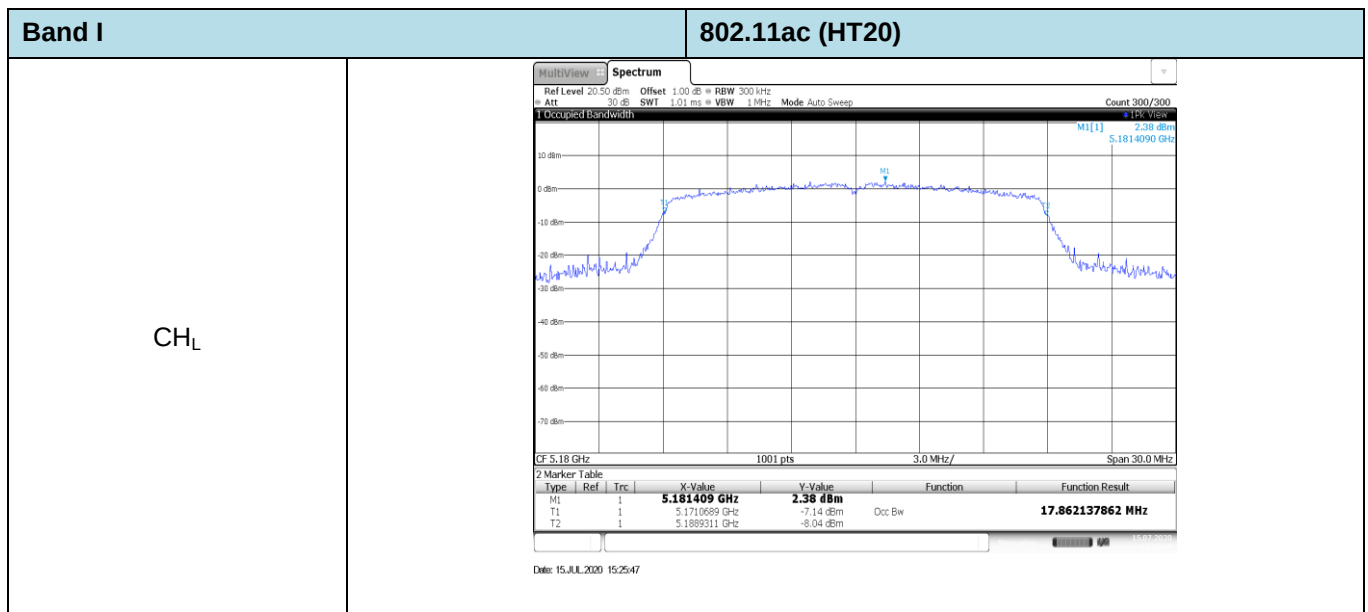


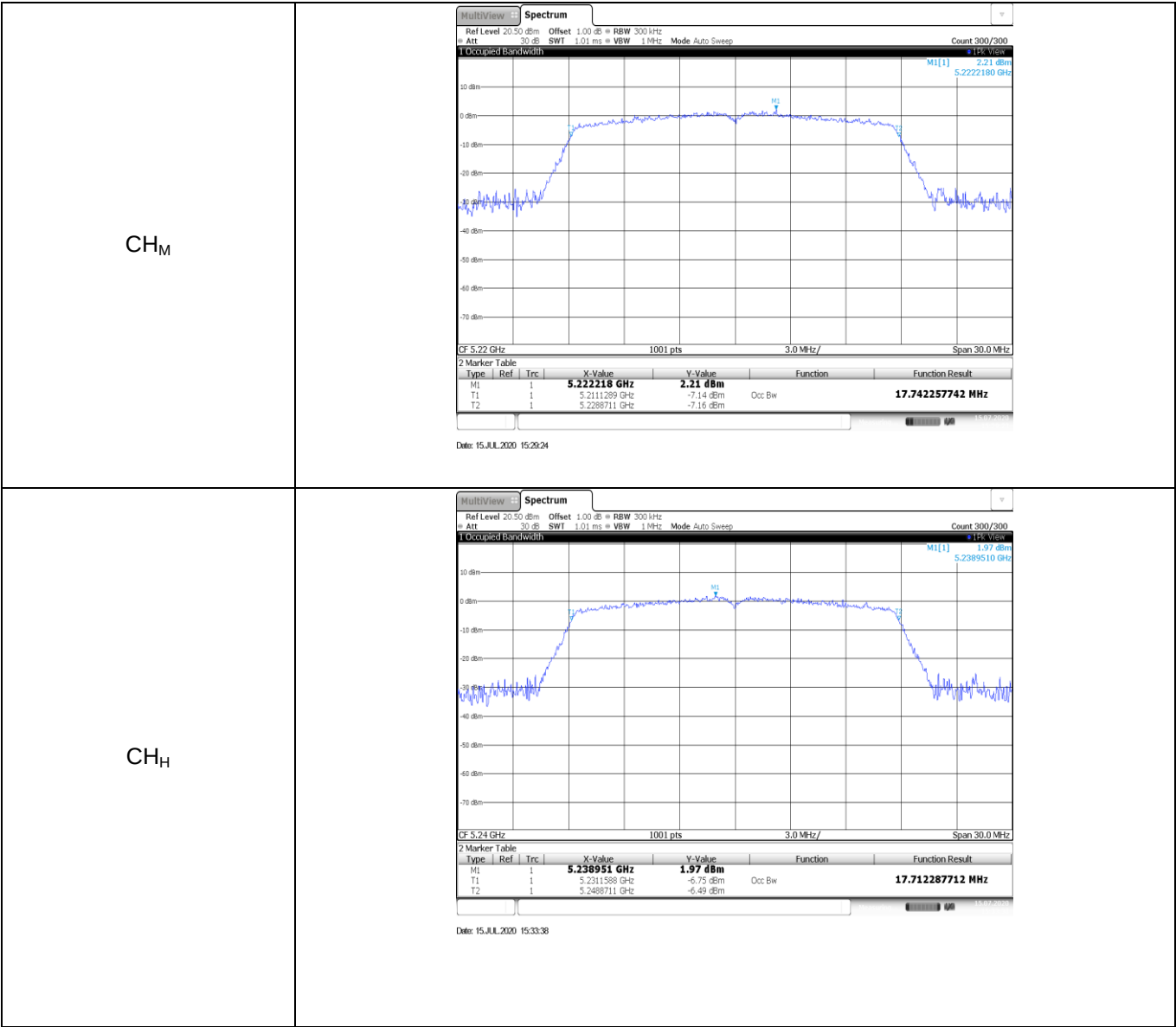


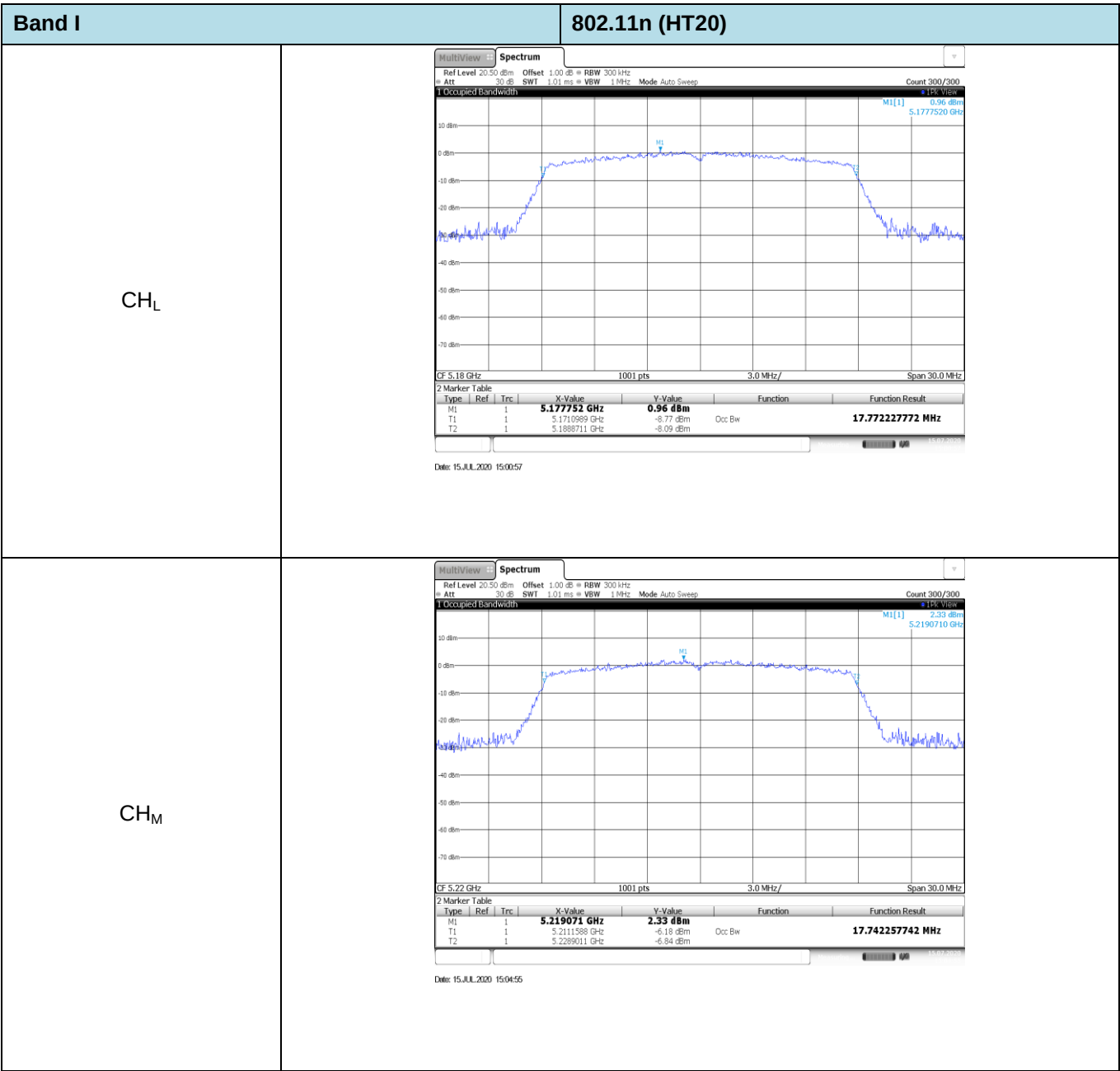
Appendix D: 99% Occupy bandwidth

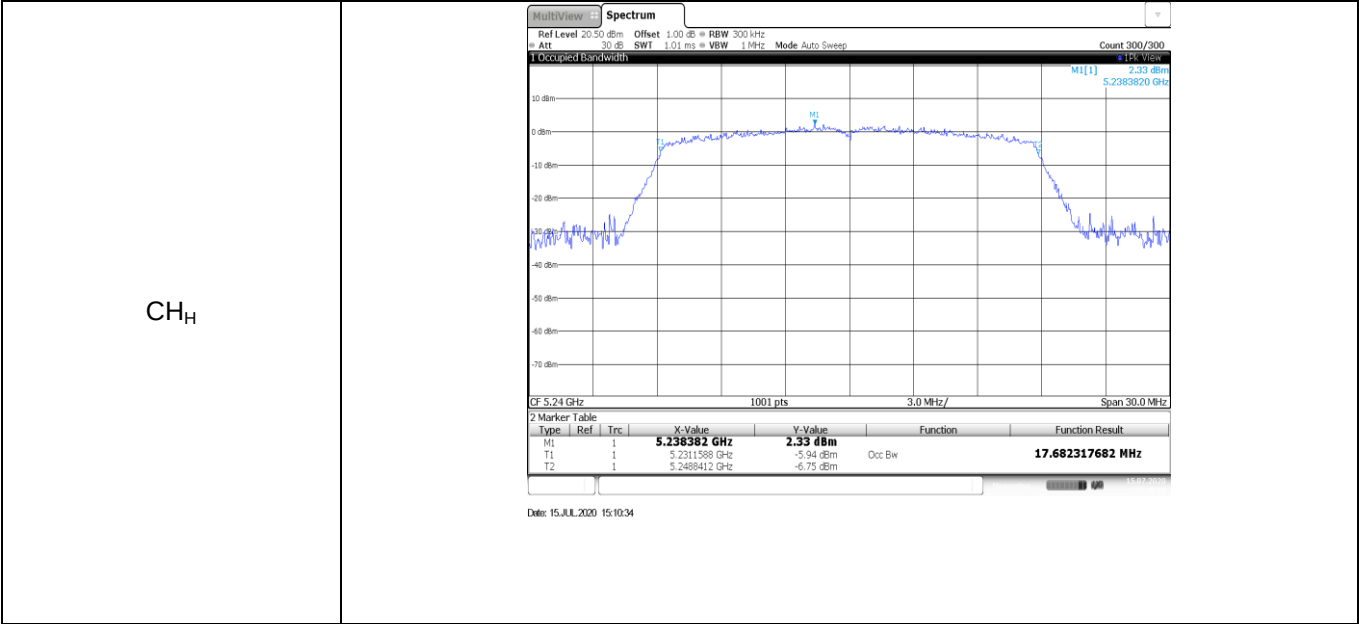
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.86	Pass
			CH _M	17.74	
			CH _H	17.71	
		802.11n	CH _L	17.77	Pass
			CH _M	17.74	
			CH _H	17.68	
		802.11a	CH _L	16.72	Pass
			CH _M	16.69	
			CH _H	16.72	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.14	
		802.11n	CH _L	36.14	Pass
			CH _H	36.14	
	80	802.11ac	CH _M	75.28	Pass
II	20	802.11ac	CH _L	17.68	Pass
			CH _M	17.68	
			CH _H	17.71	
		802.11n	CH _L	17.65	Pass
			CH _M	17.68	
			CH _H	17.68	
		802.11a	CH _L	16.63	Pass
			CH _M	16.66	
			CH _H	16.72	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.14	
		802.11n	CH _L	36.08	Pass
			CH _H	36.08	
	80	802.11ac	CH _M	75.28	Pass

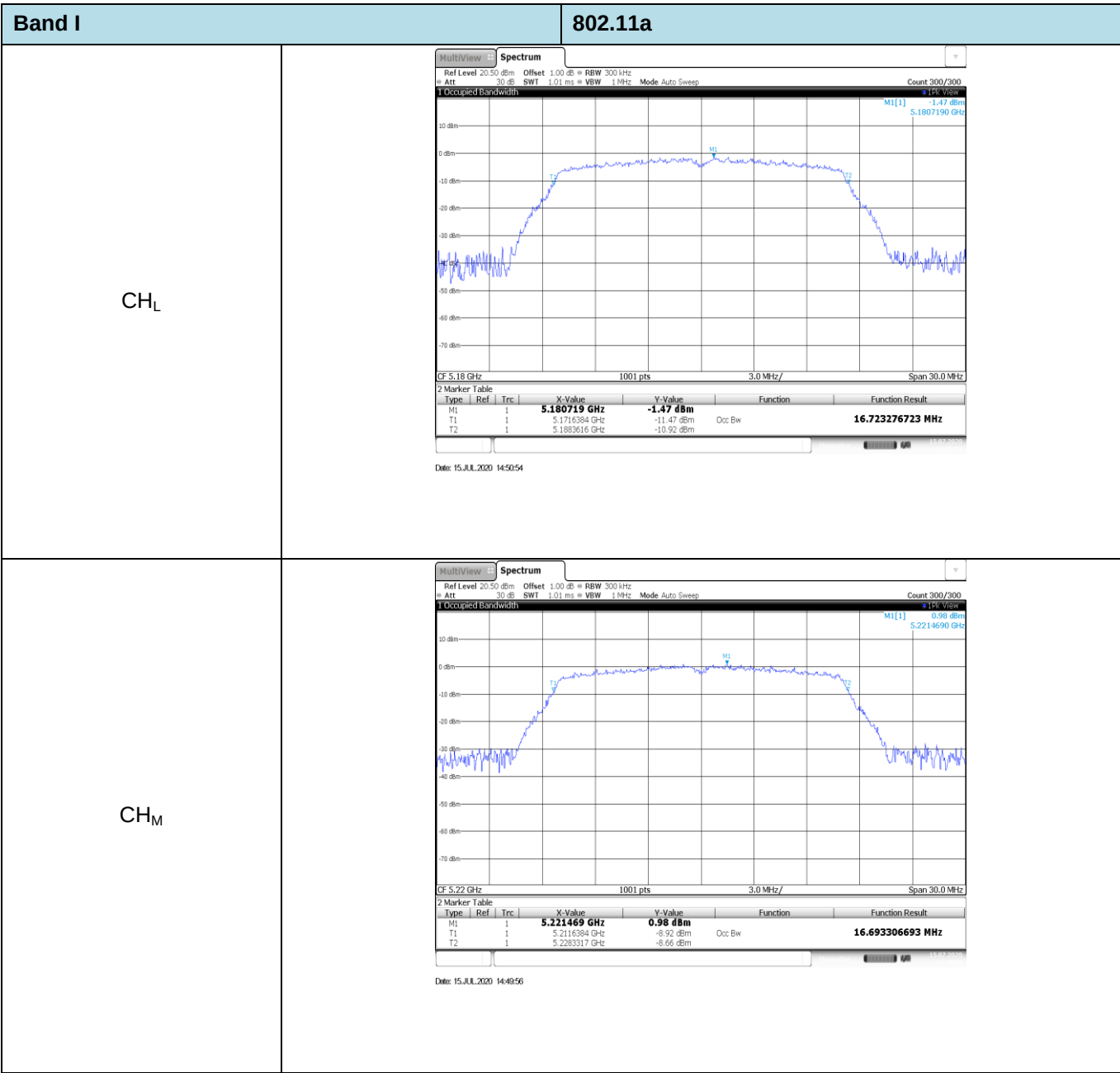
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.80	Pass
			CH _M	17.77	
			CH _H	17.83	
		802.11n	CH _L	17.74	Pass
			CH _M	17.77	
			CH _H	17.80	
		802.11a	CH _L	16.75	Pass
			CH _M	16.78	
			CH _H	16.81	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.32	
		802.11n	CH _L	36.30	Pass
			CH _H	36.30	
	80	802.11ac	CH _M	75.40	Pass

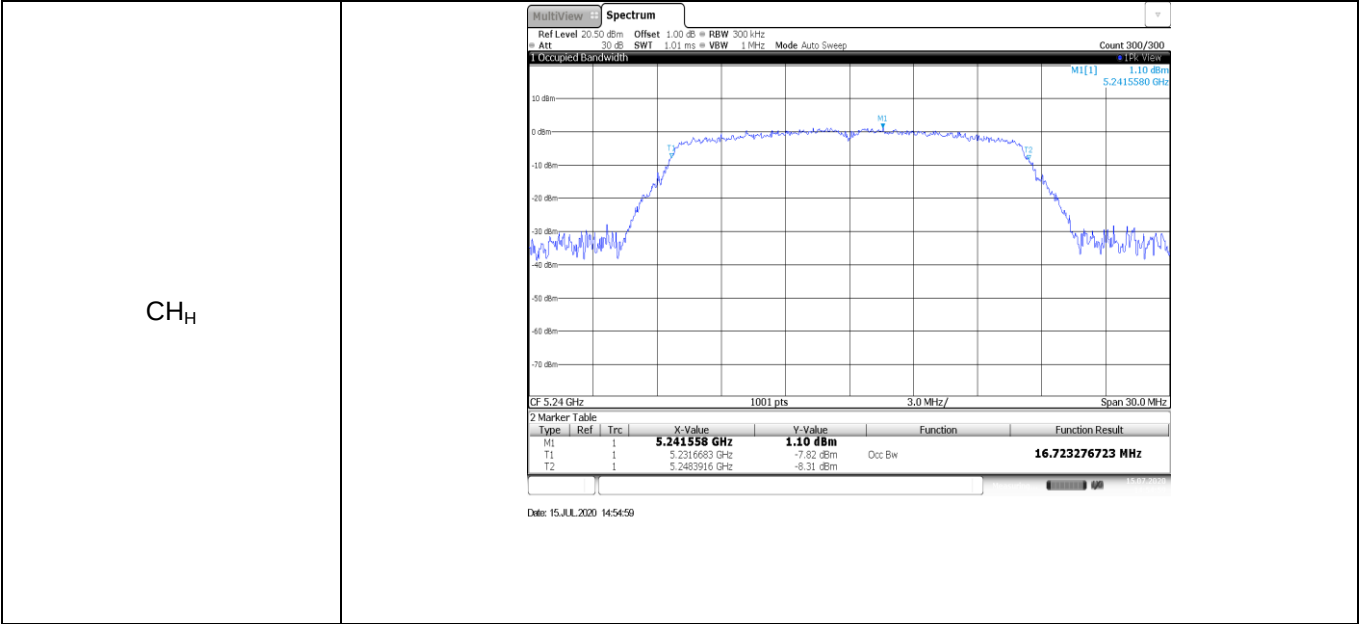


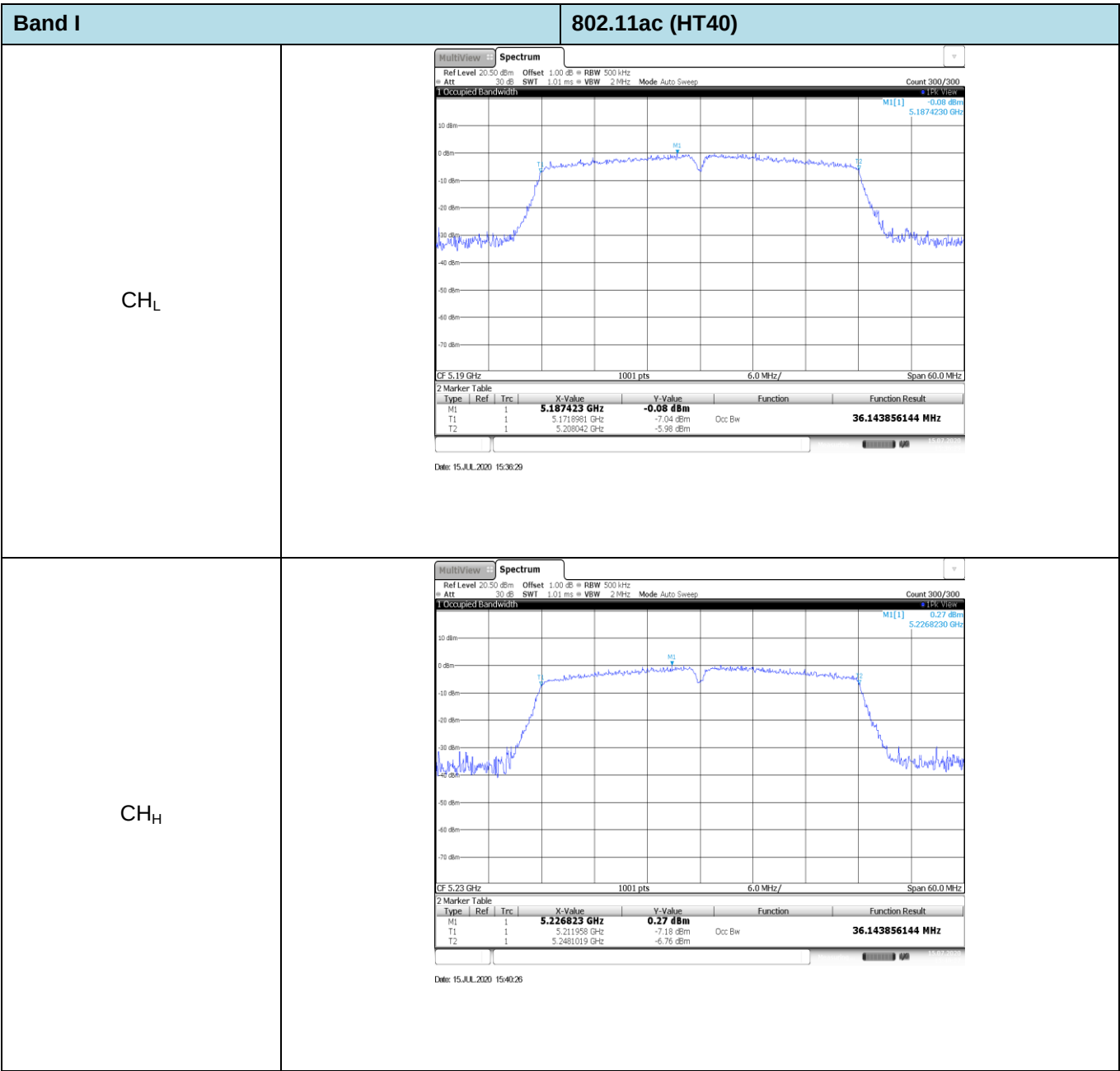


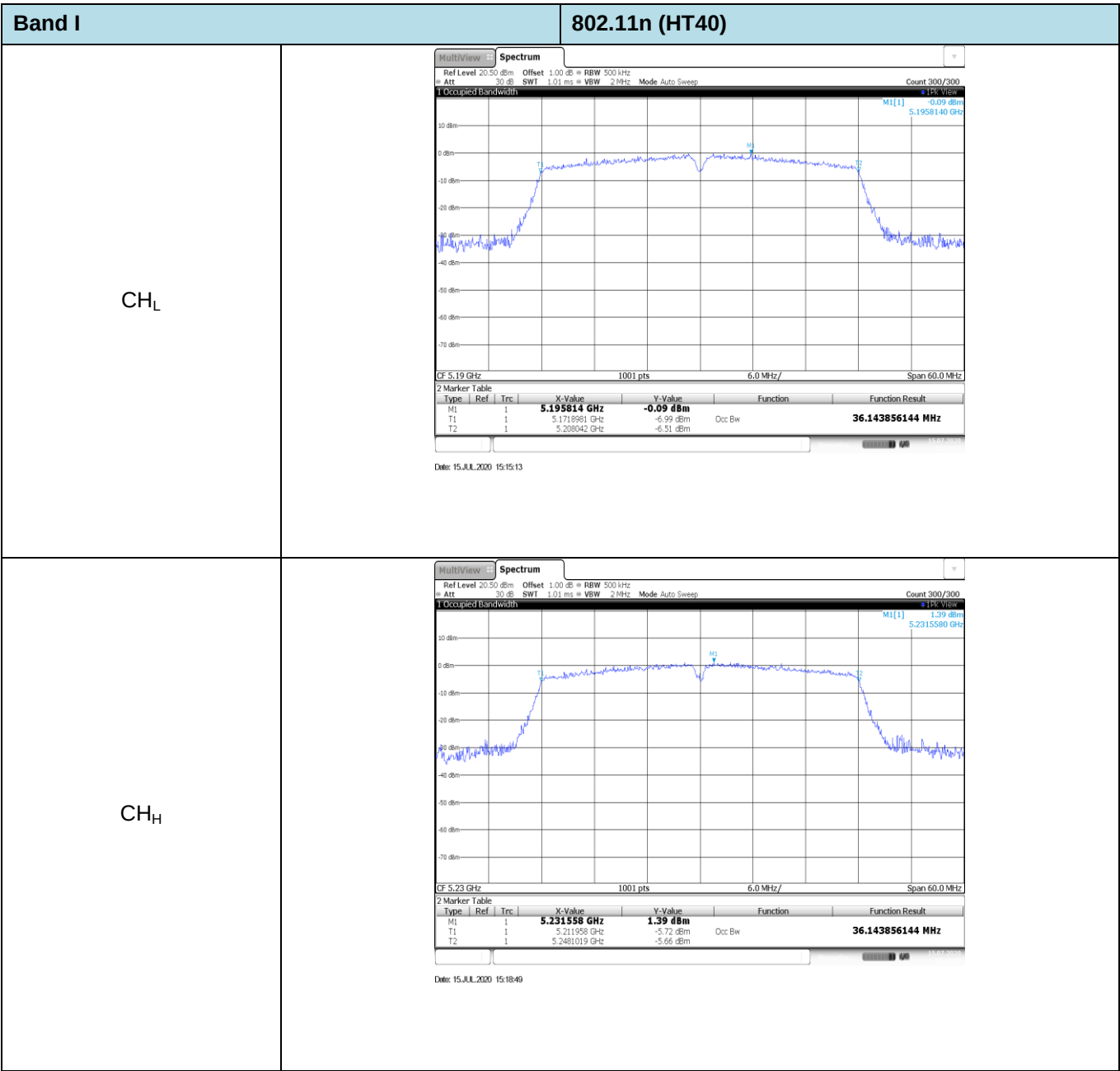


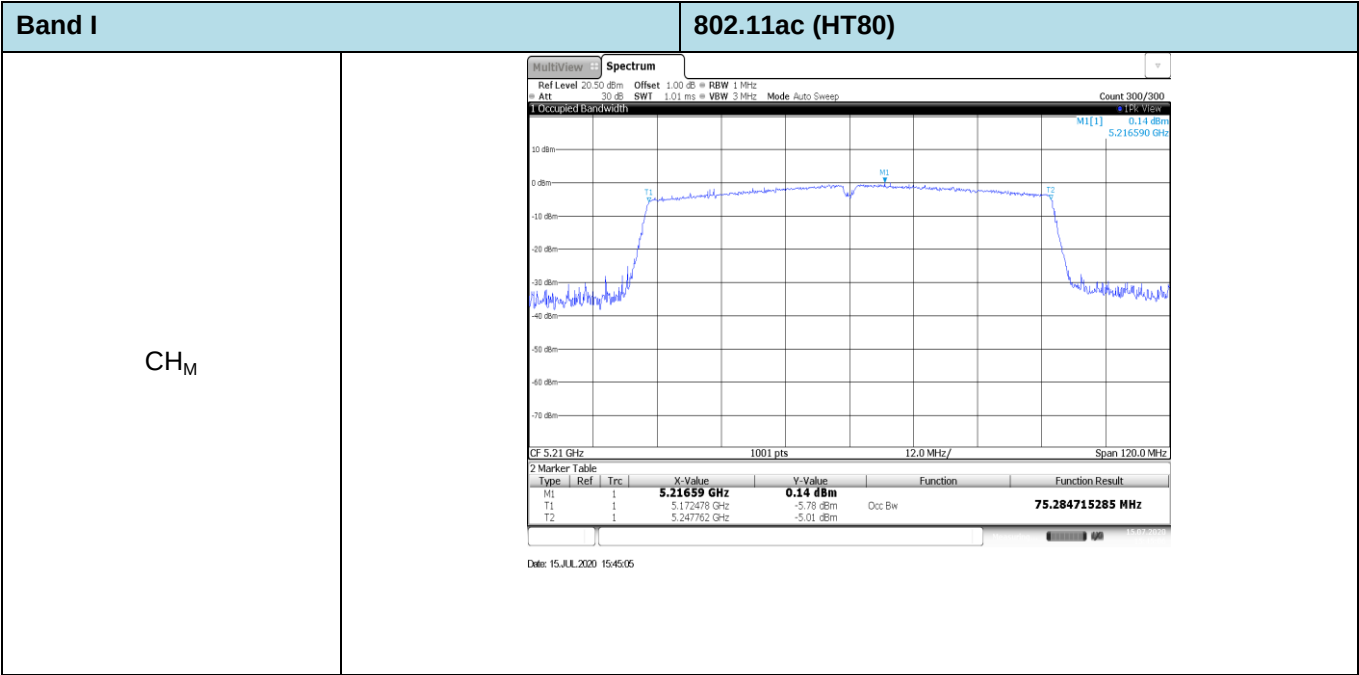


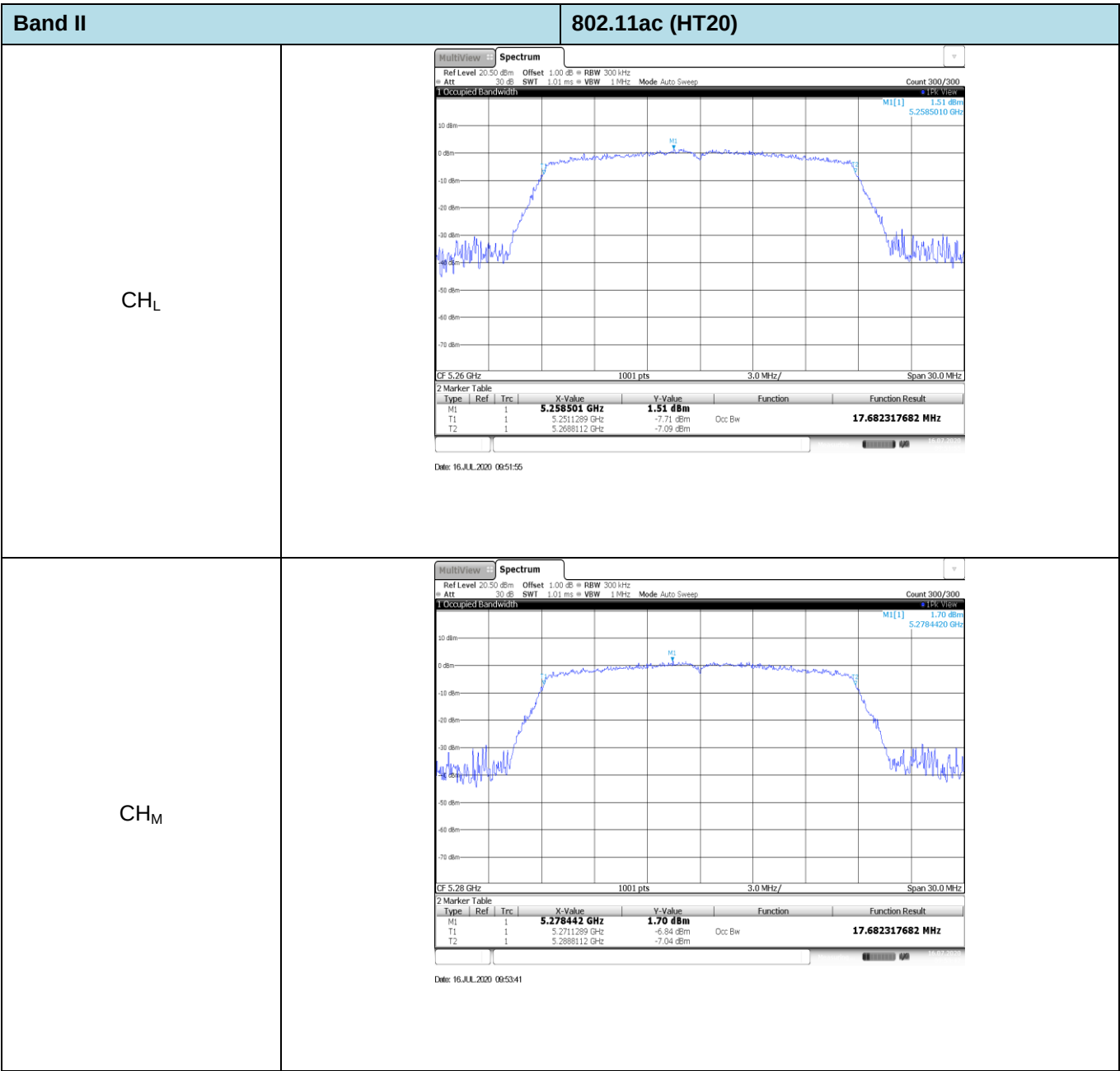


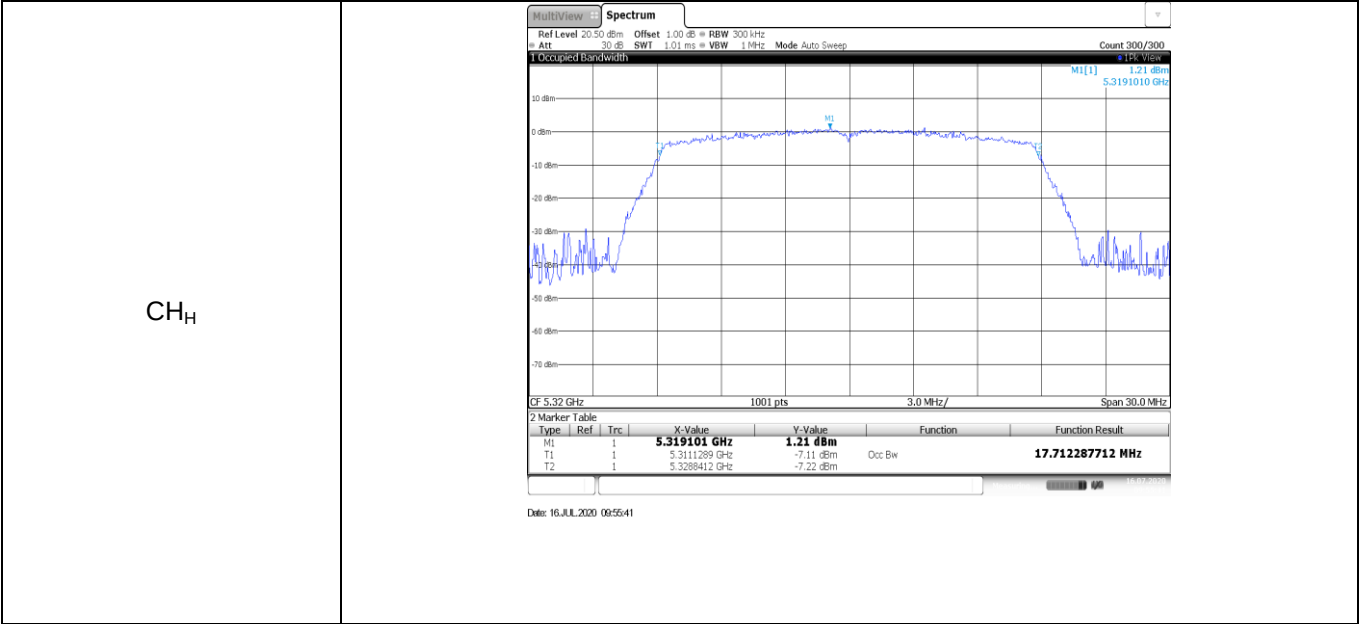


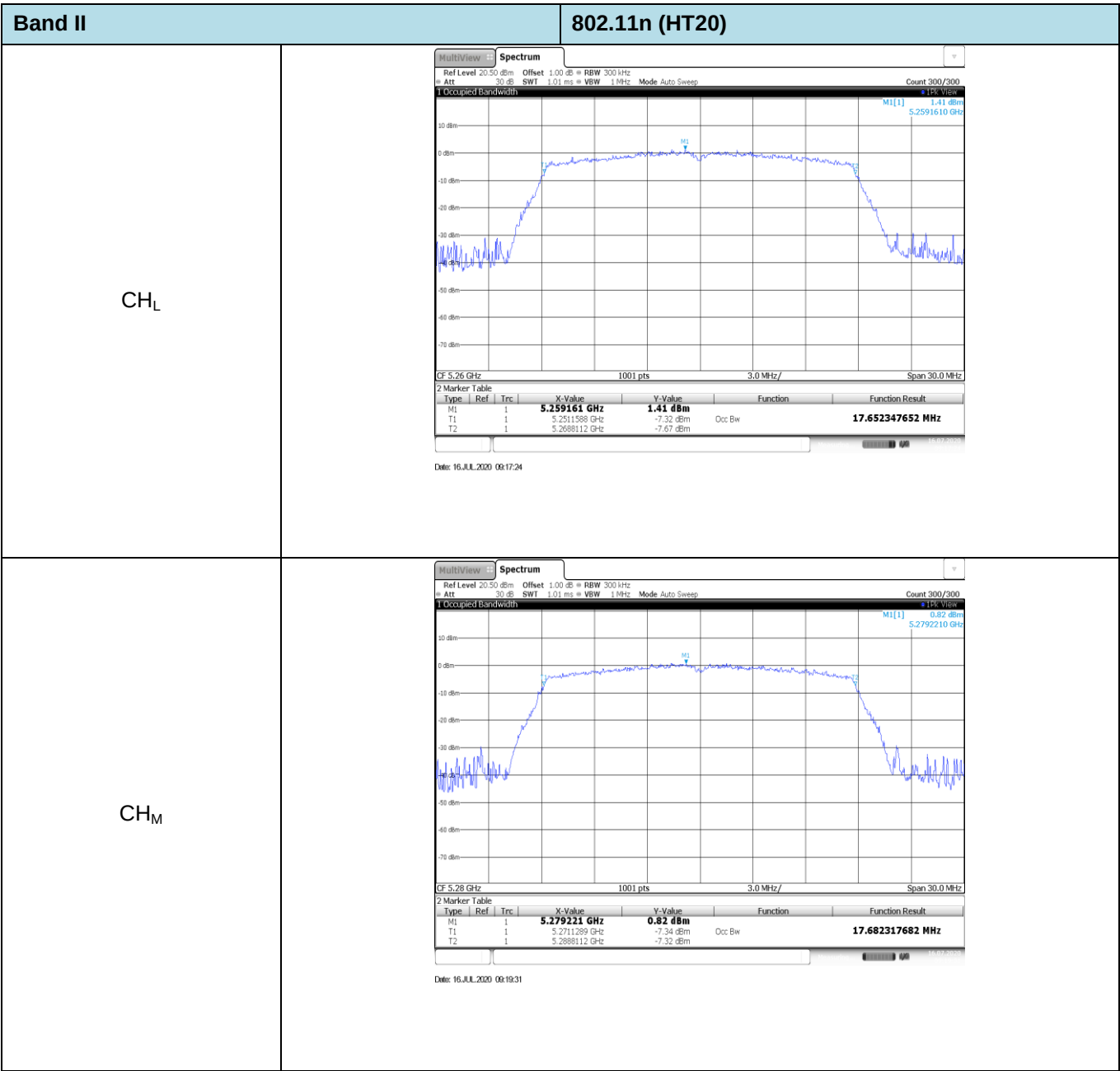


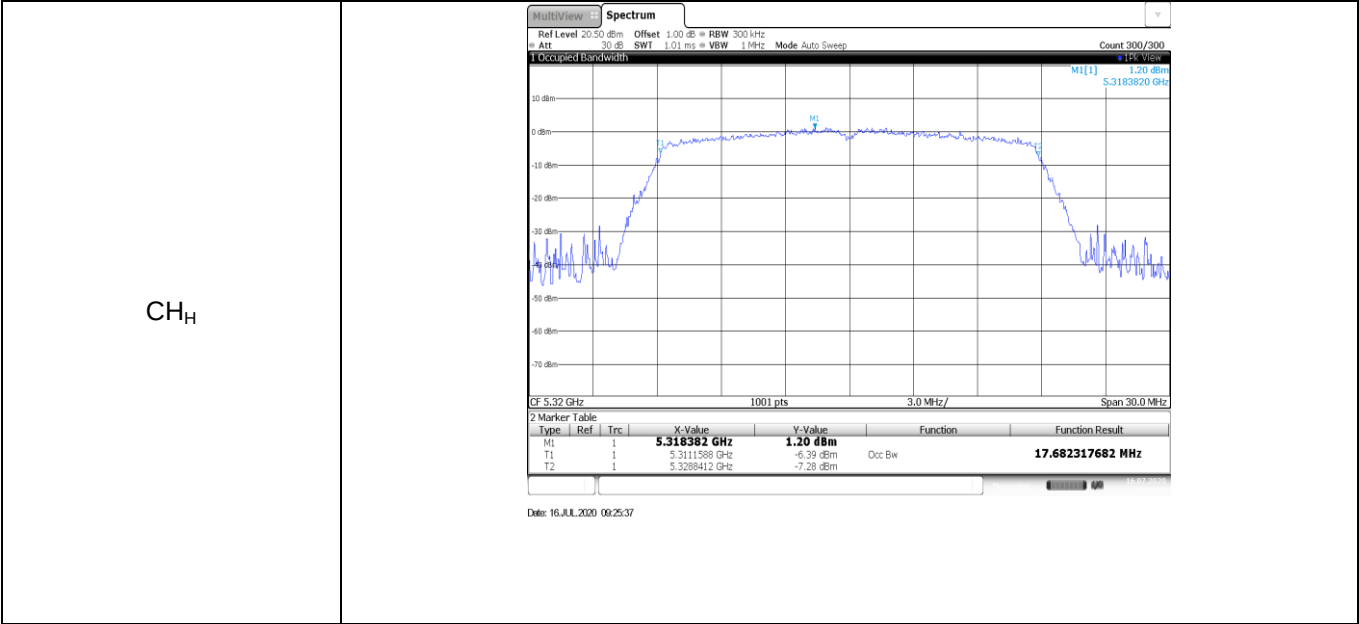


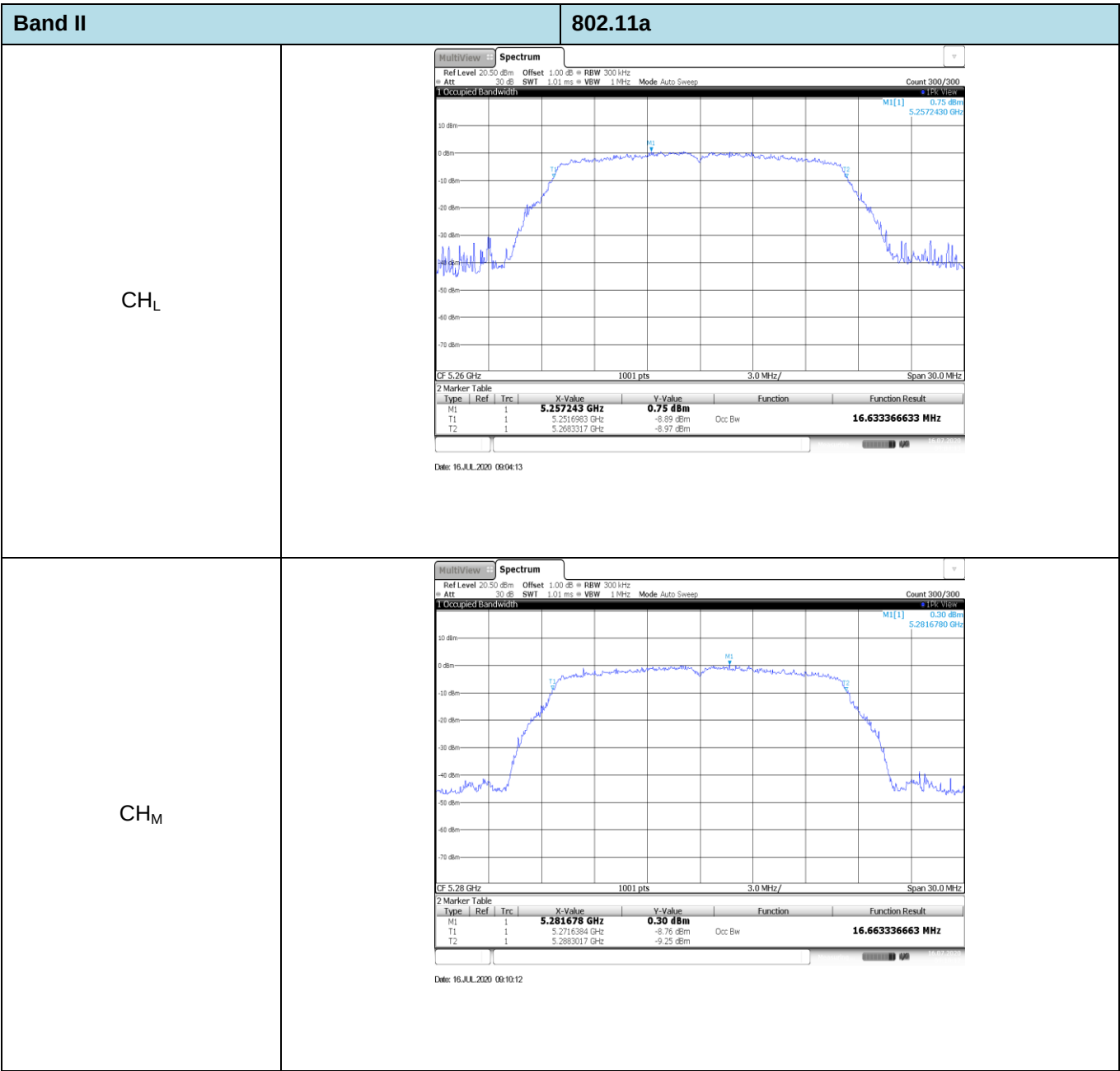


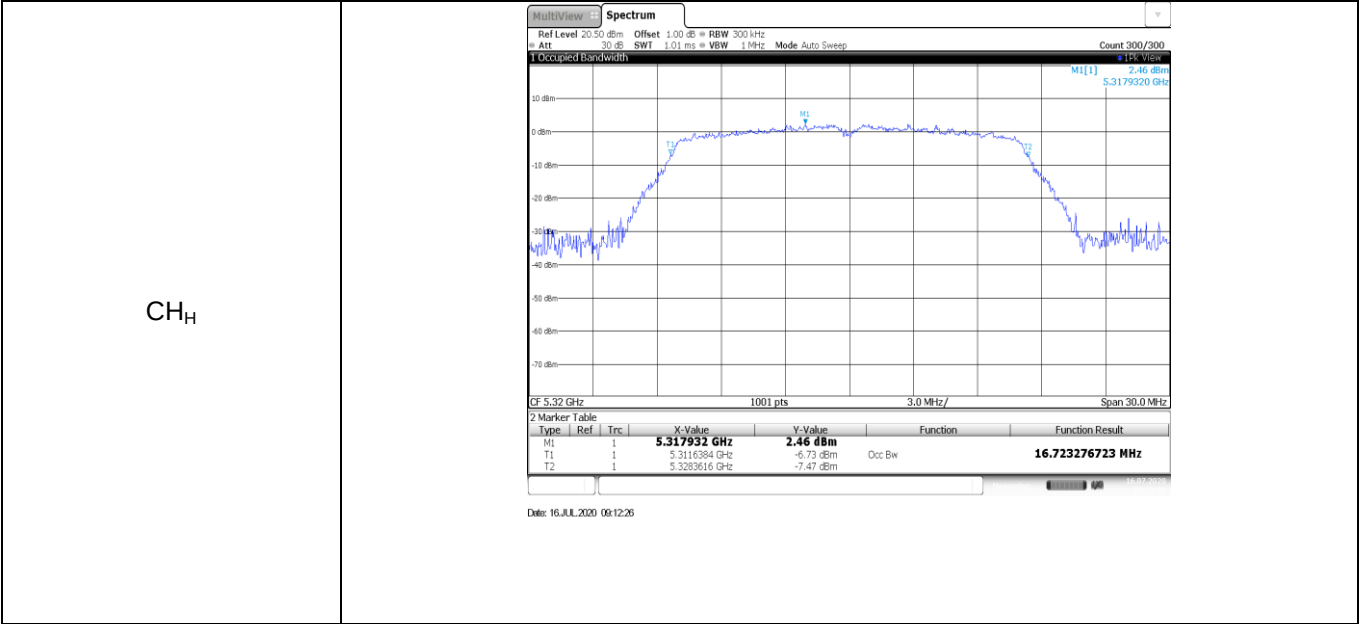


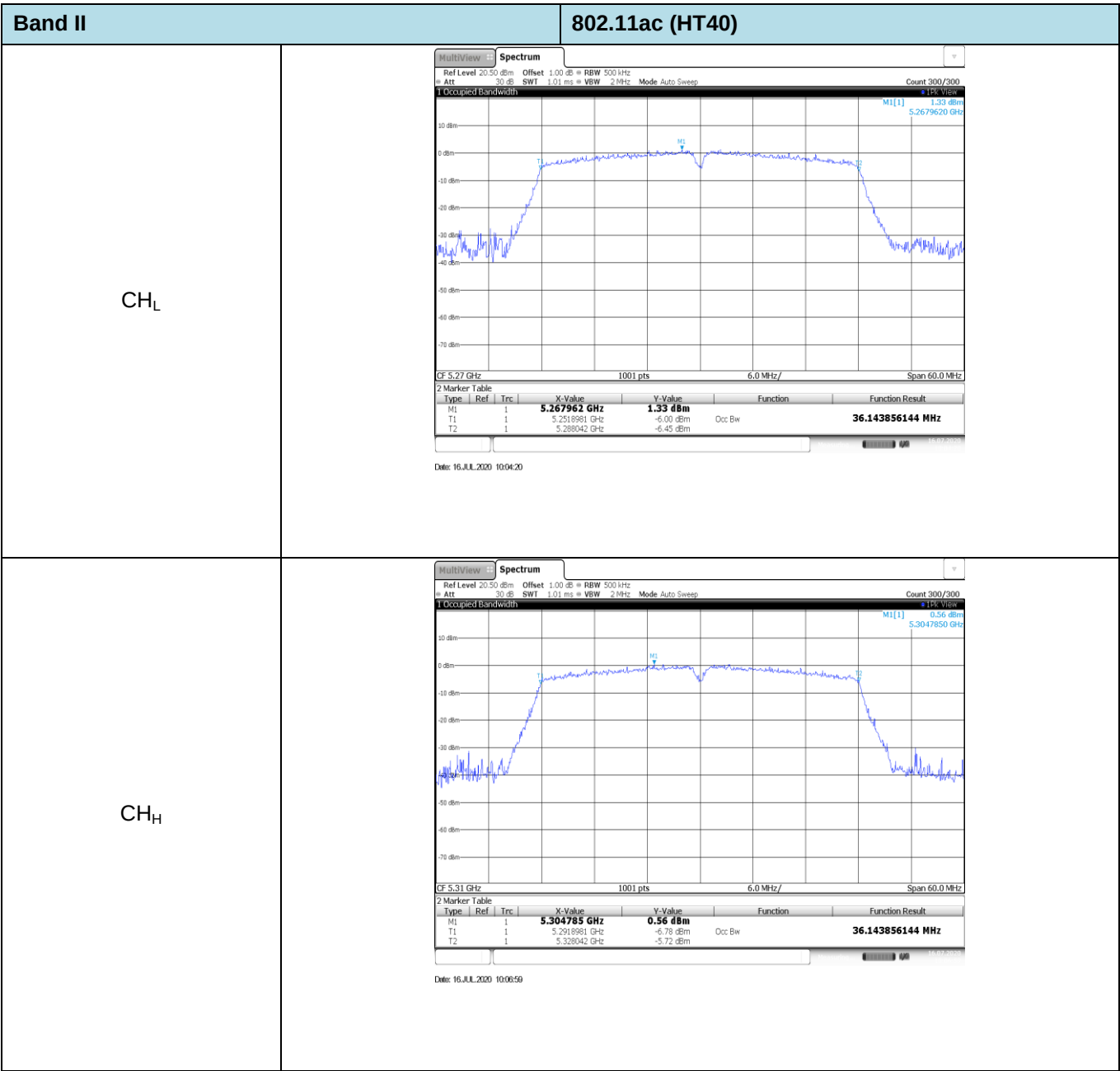


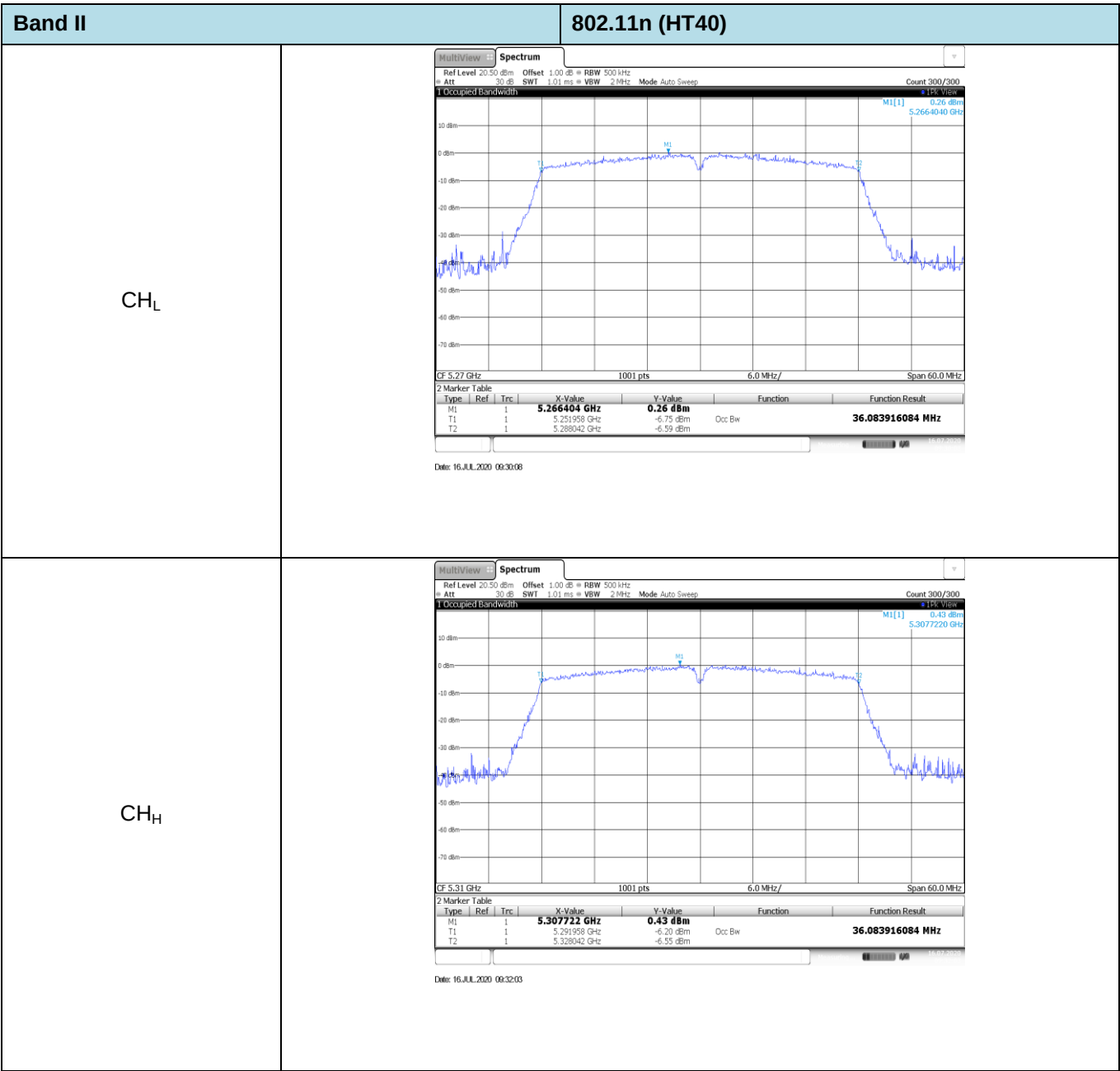


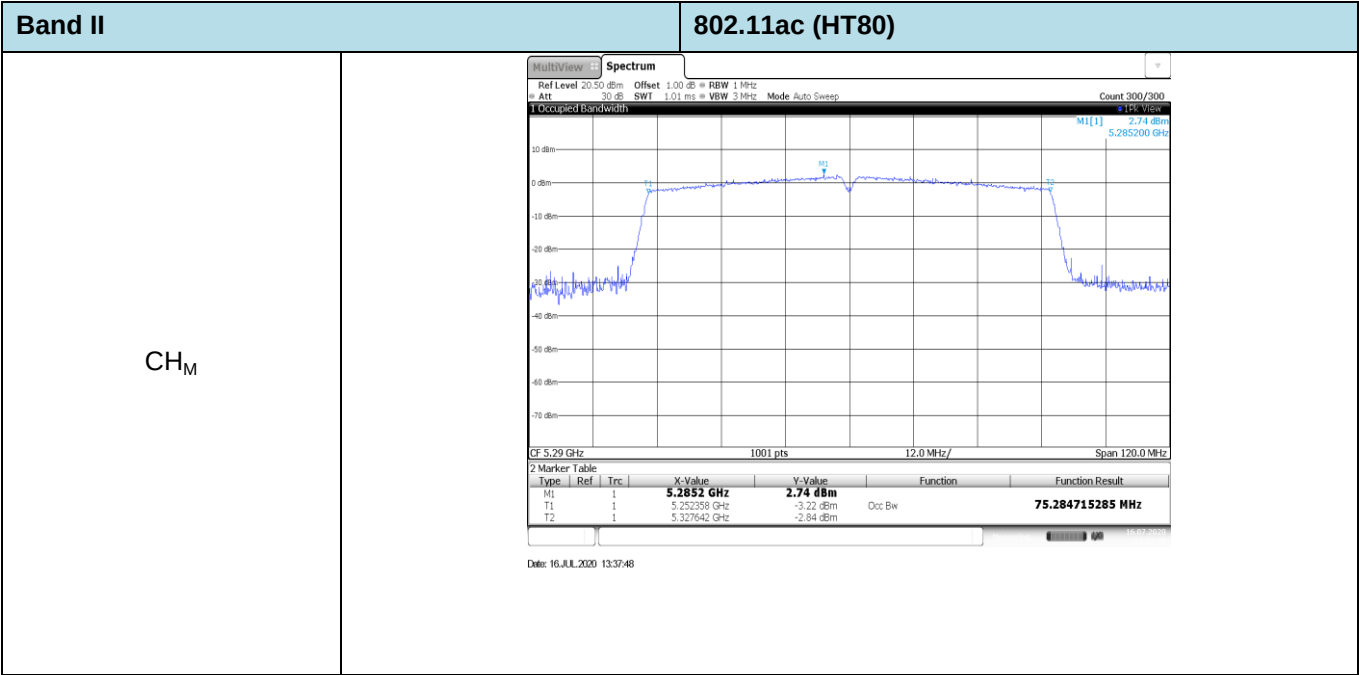




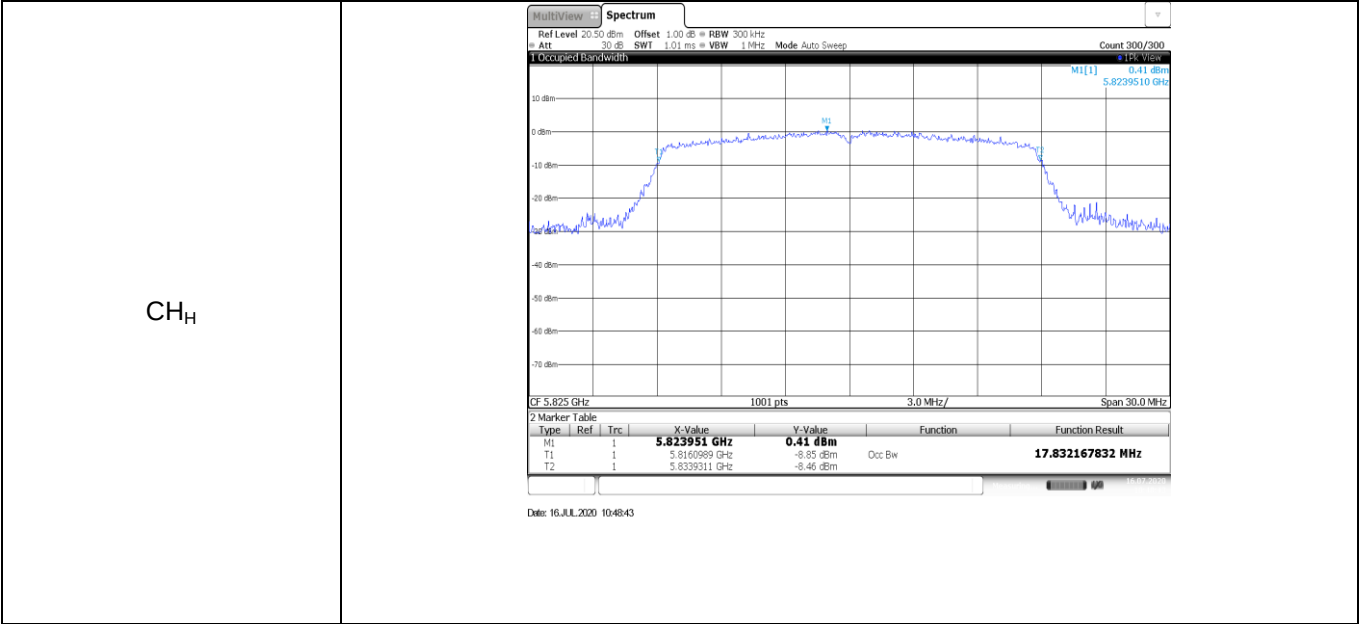


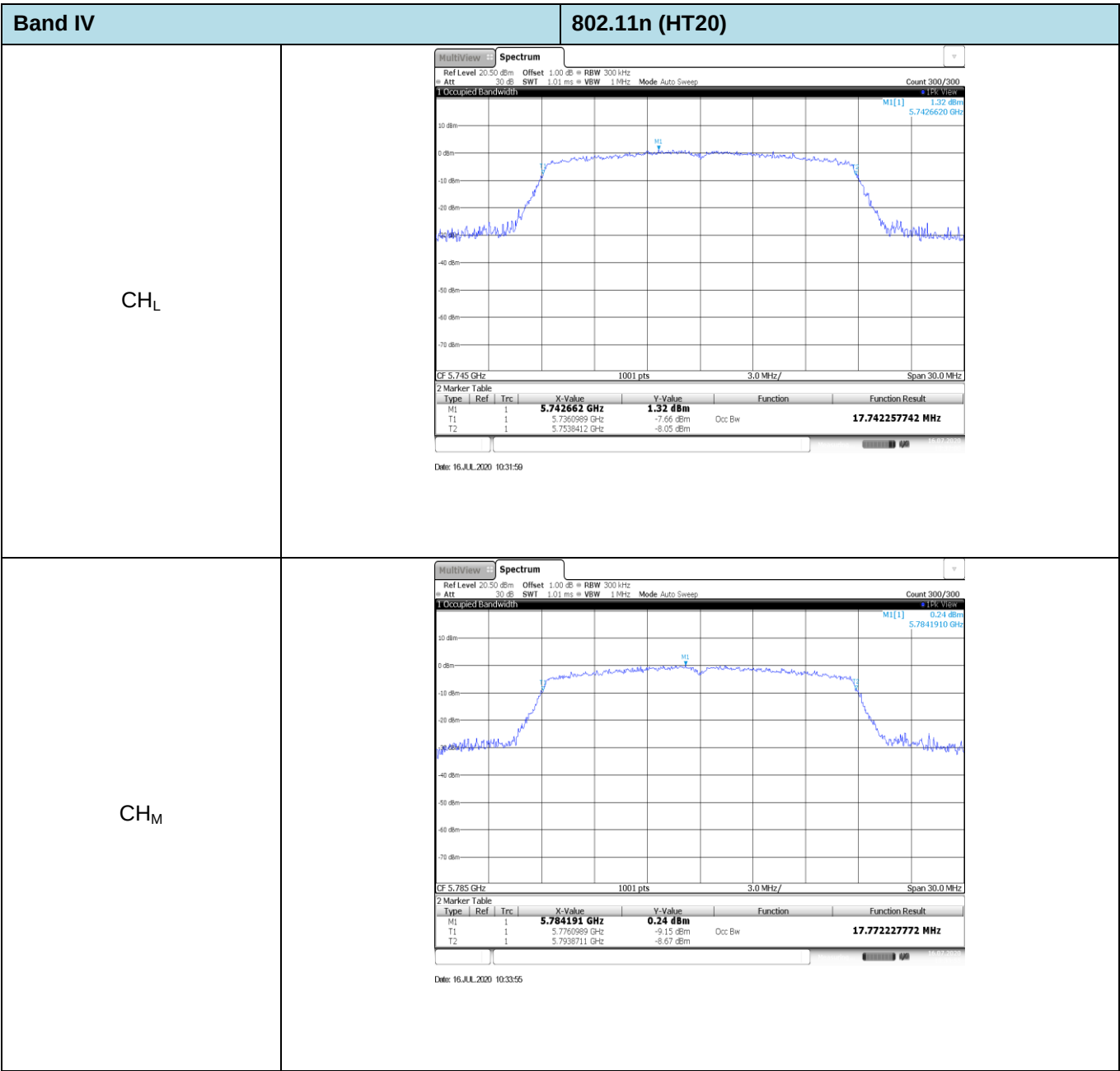


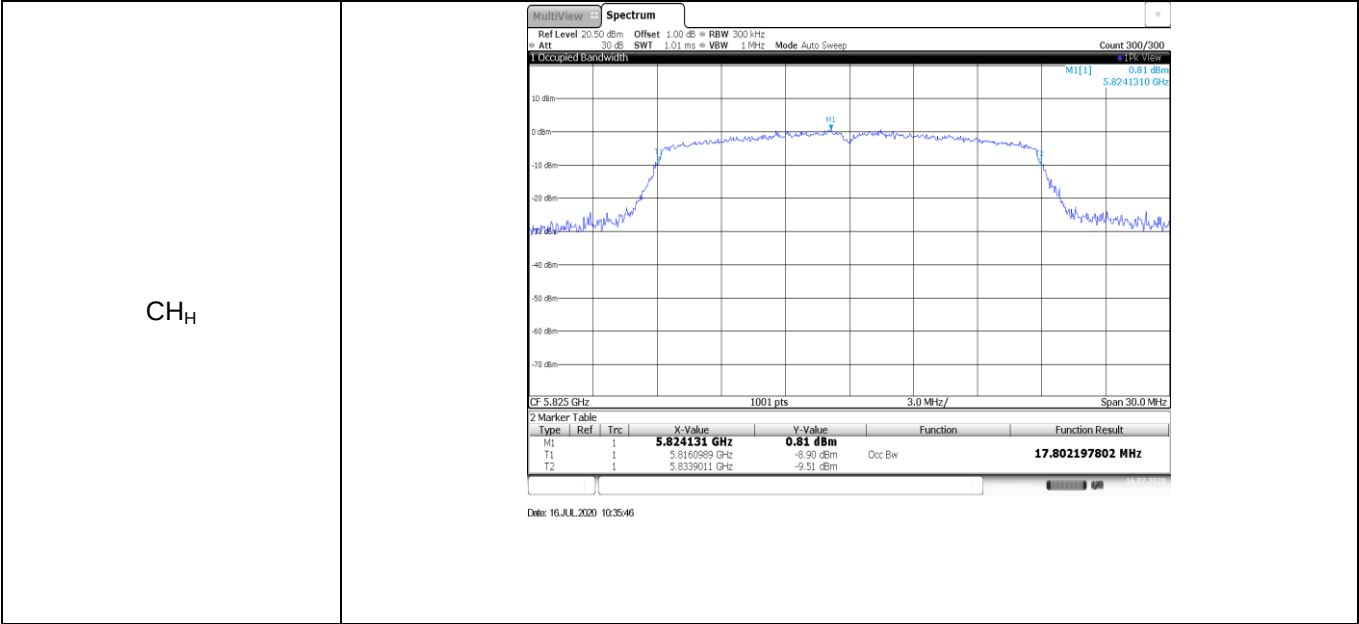


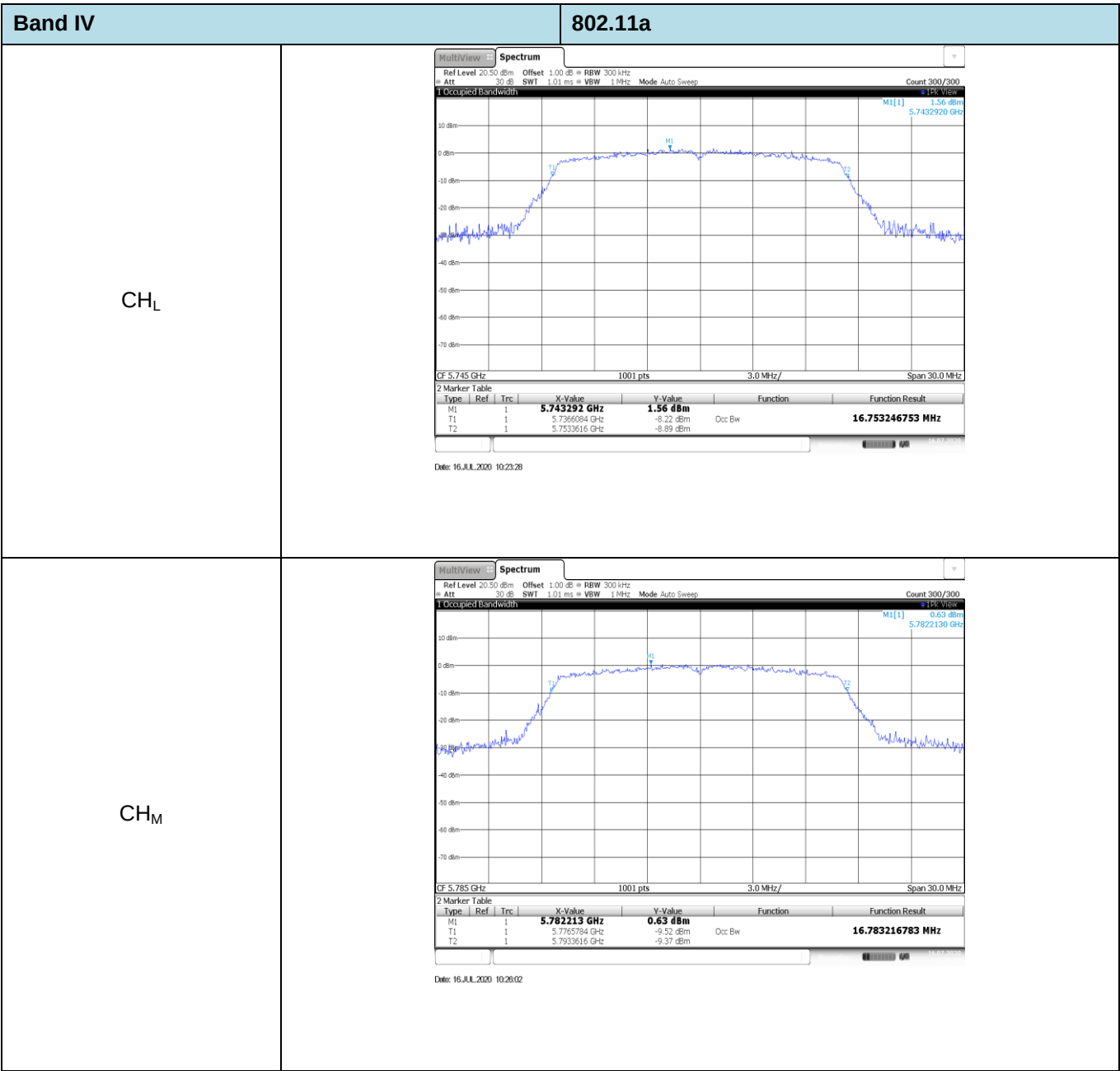


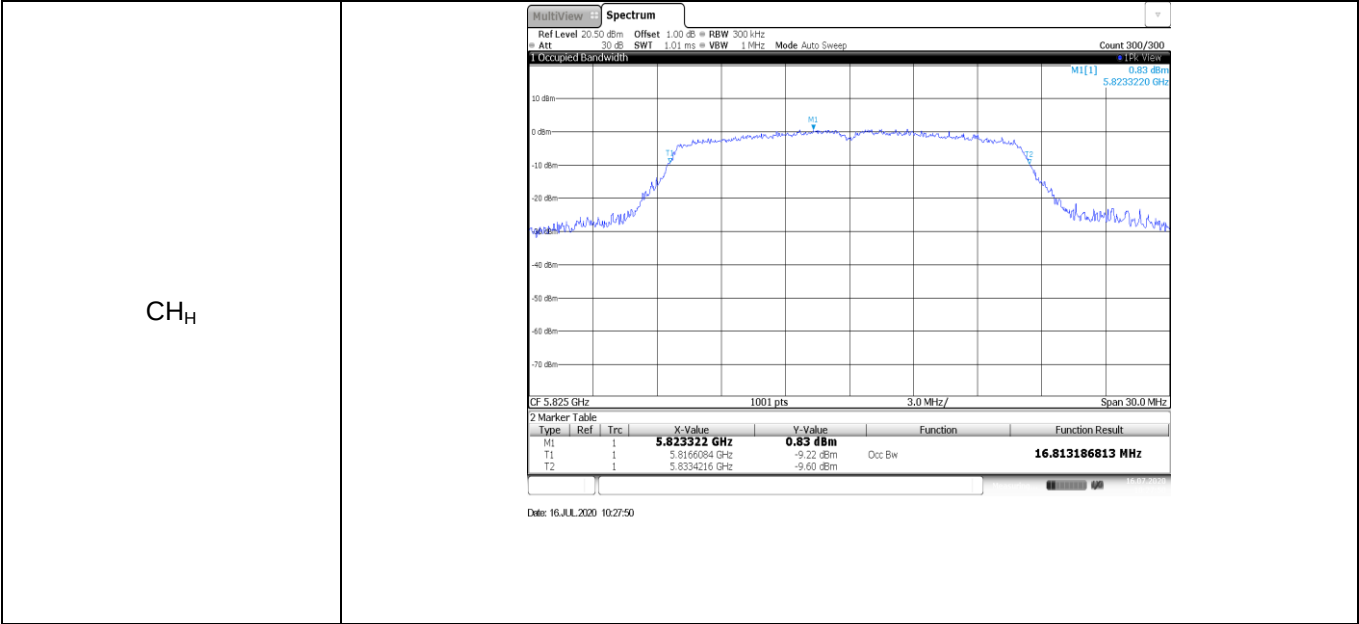






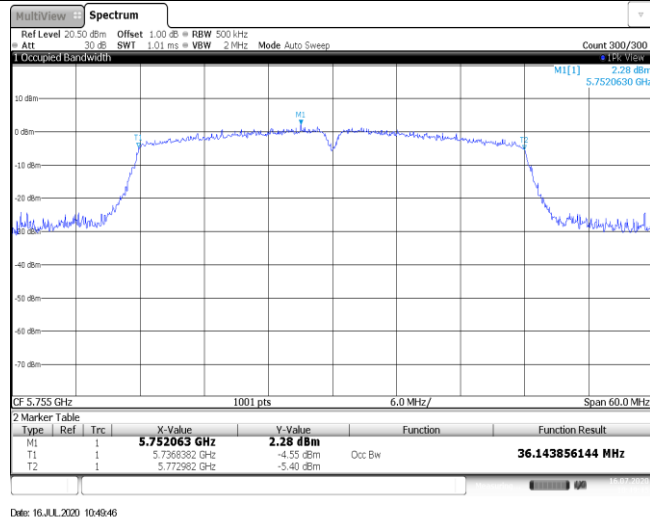
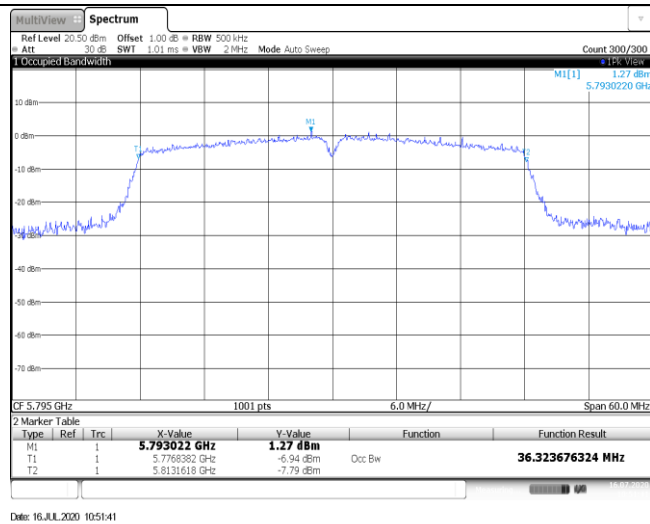


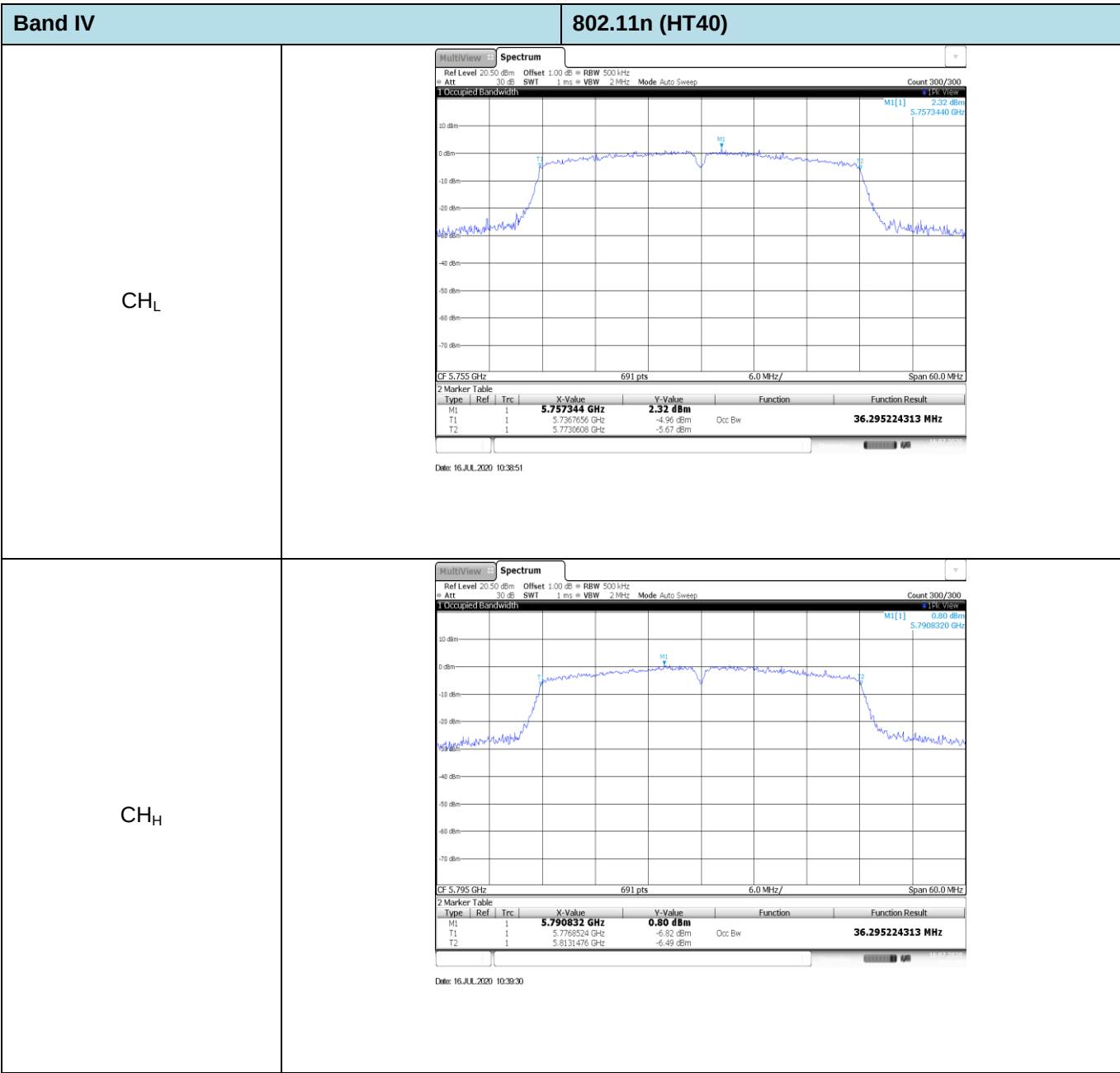


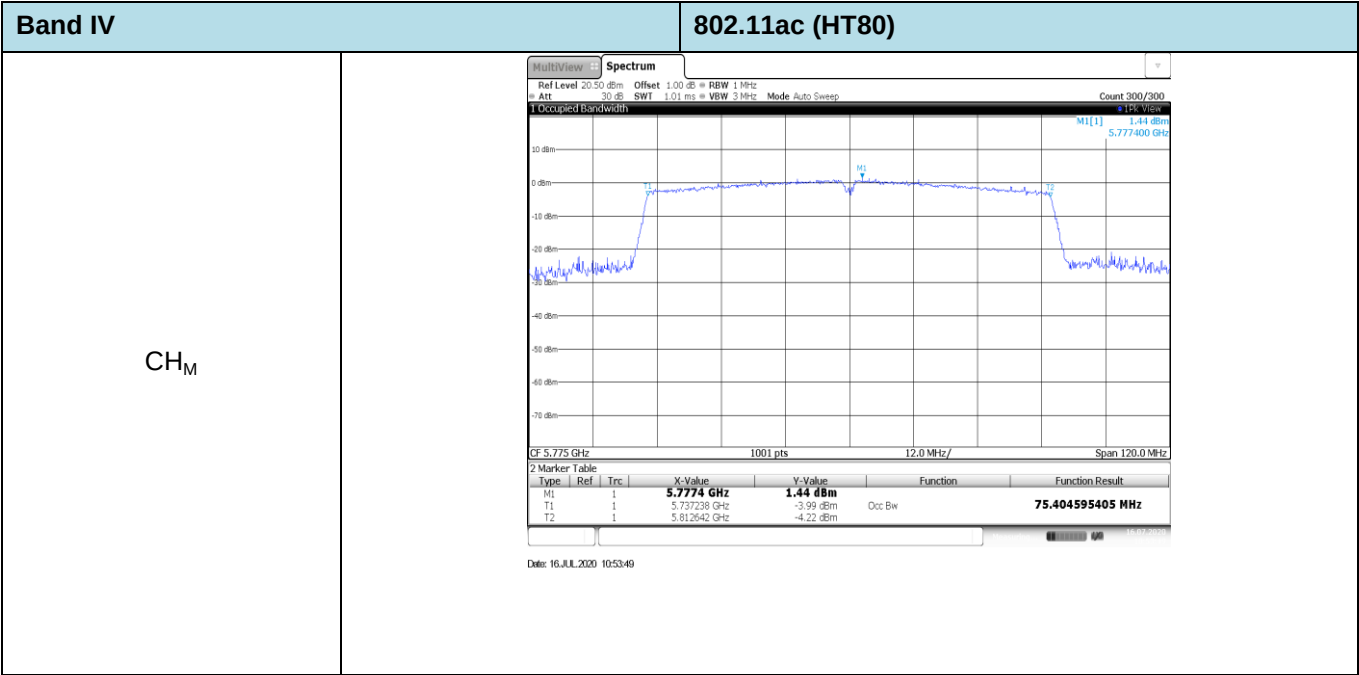


Band IV

802.11ac (HT40)

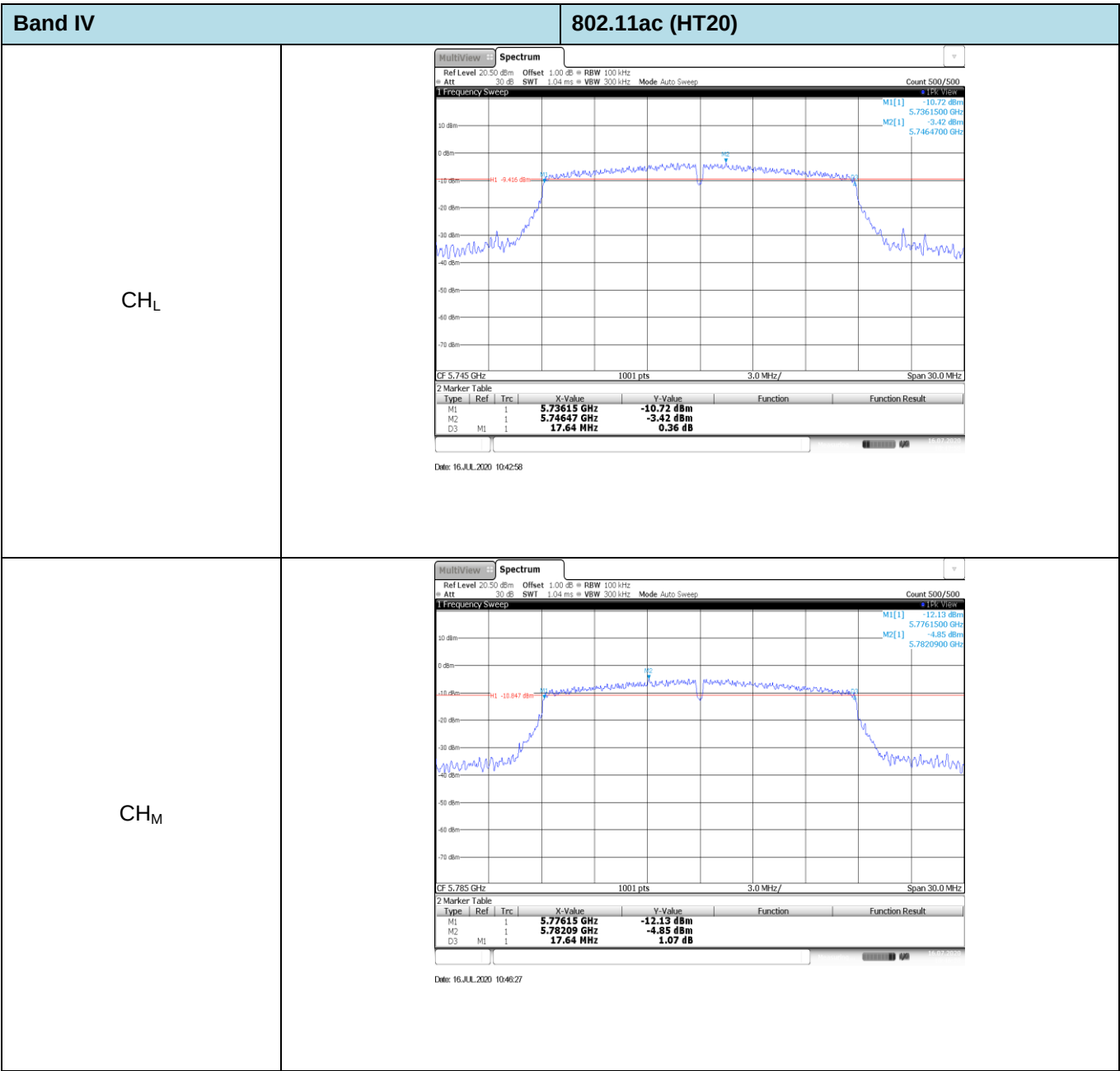
CH_LCH_H





Appendix E: 6dB Bandwidth

Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.64	Pass
			CH _M	17.64	
			CH _H	17.61	
		802.11n	CH _L	17.64	Pass
			CH _M	17.64	
			CH _H	17.64	
		802.11a	CH _L	16.38	Pass
			CH _M	16.35	
			CH _H	16.38	
	40	802.11ac	CH _L	36.42	Pass
			CH _H	36.24	
		802.11n	CH _L	36.26	Pass
			CH _H	36.43	
	80	802.11ac	CH _M	76.68	Pass



$$\text{CH}_H$$
