

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

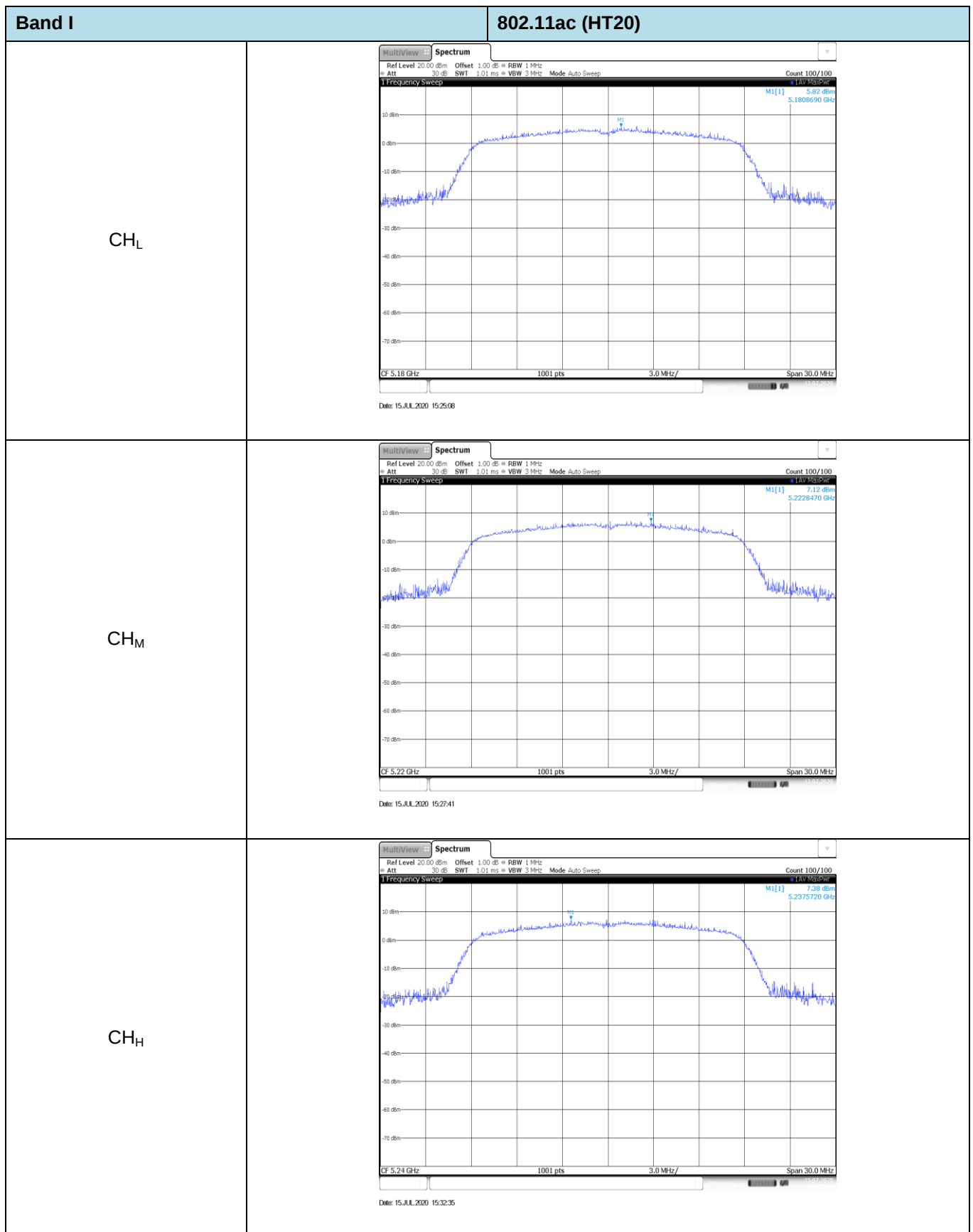
Band	Bandwidth (MHz)	Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor (dB)	Conducted Output Power (dBm)	Limit (dBm)	Result
IV	20	802.11ac	CH _L	16.06	100	0	16.06	30.00	Pass
			CH _M	15.52	100	0	15.52		
			CH _H	15.49	100	0	15.49		
		802.11n	CH _L	15.98	100	0	15.98	30.00	Pass
			CH _M	15.65	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:

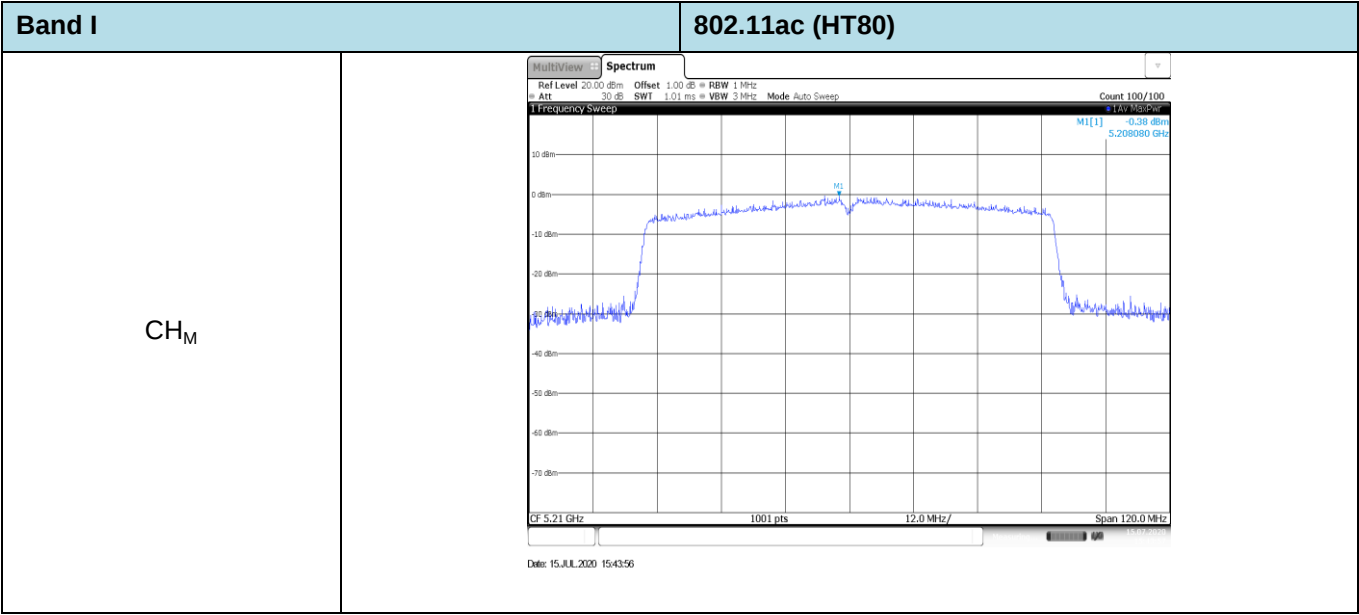


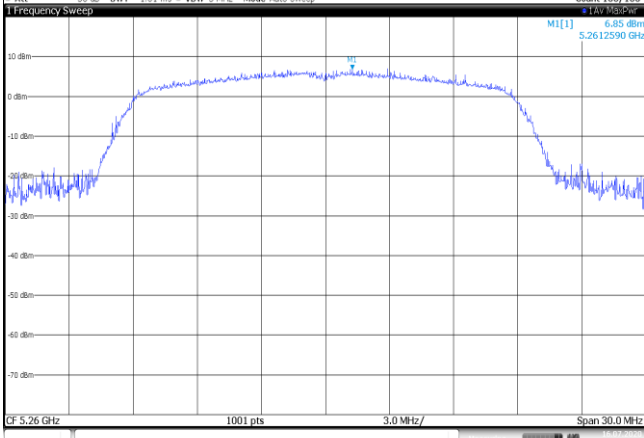
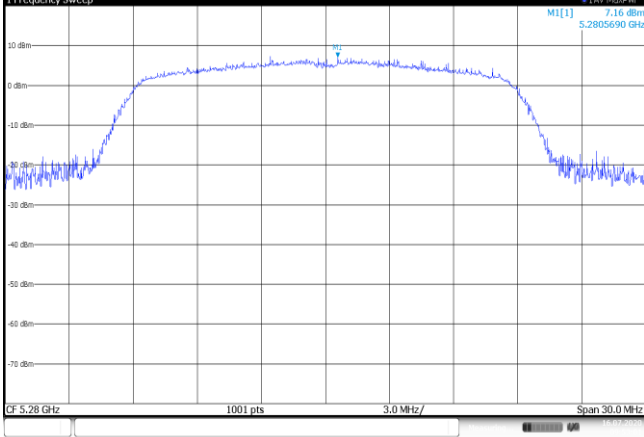
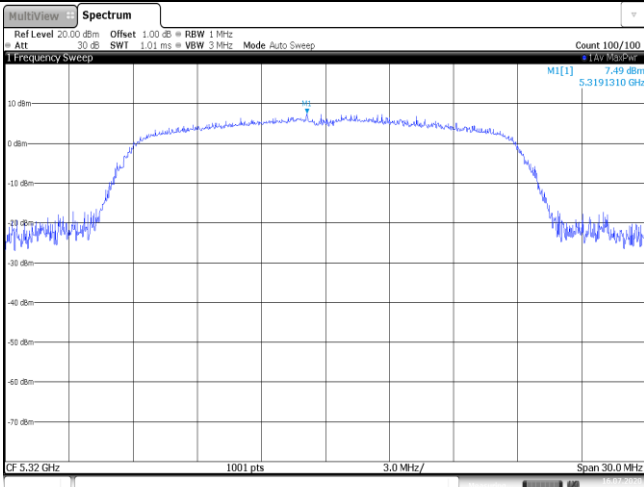
Band I		802.11n (HT20)
CH _L	MultView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep 11.100000 6.44 dBm 5.1800000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 JUL 2020 14:58:37	
CH _M	MultView 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 11.100000 7.21 dBm 5.2249150 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15 JUL 2020 15:02:34	
CH _H	MultView 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 11.100000 7.08 dBm 5.2408390 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.24 GHz 1001 pts 3.0 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 MHz Mode Auto Sweep Count 100/100 M1[1] 5.182590 GHz 5.182590 GHz Span 30.0 MHz Date: 15.AUG.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 MHz Mode Auto Sweep Count 100/100 M1[1] 5.2225170 GHz 5.2225170 GHz Span 30.0 MHz Date: 15.AUG.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 MHz Mode Auto Sweep Count 100/100 M1[1] 5.2426670 GHz 5.2426670 GHz Span 30.0 MHz Date: 15.AUG.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	

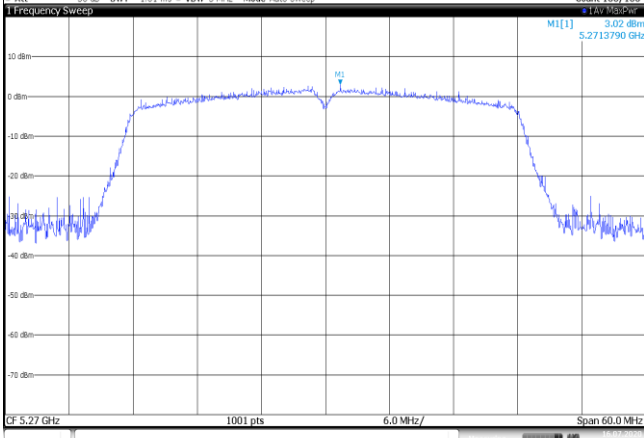
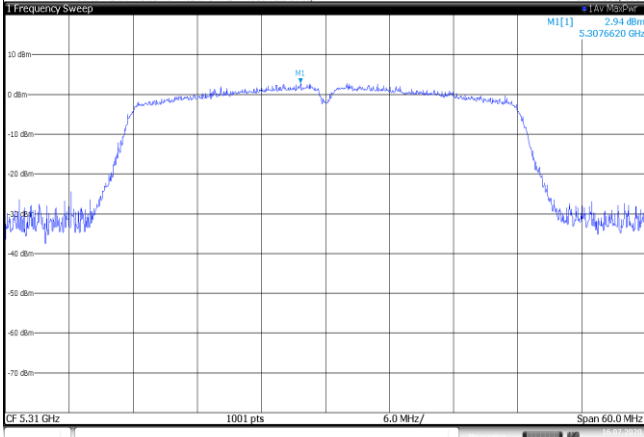
Band I		802.11n (HT40)
CH _L	MultiView Spectrum Count 100/100 Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Frequency Sweep 11.11029 GHz 4.22 dBm 5.1922180 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.19 GHz 1001 pts 6.0 MHz/ Span 60.0 MHz Date: 15.JUL.2020 15:12:19	
CH _H	MultiView Spectrum Count 100/100 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 Frequency Sweep 11.11029 GHz 4.07 dBm 5.2329970 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 15:17:47	

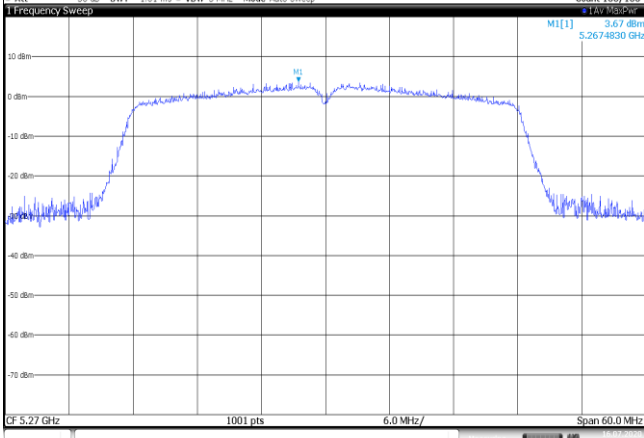
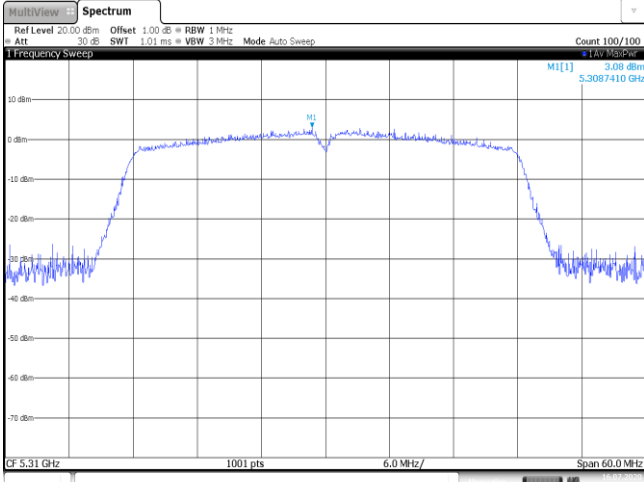


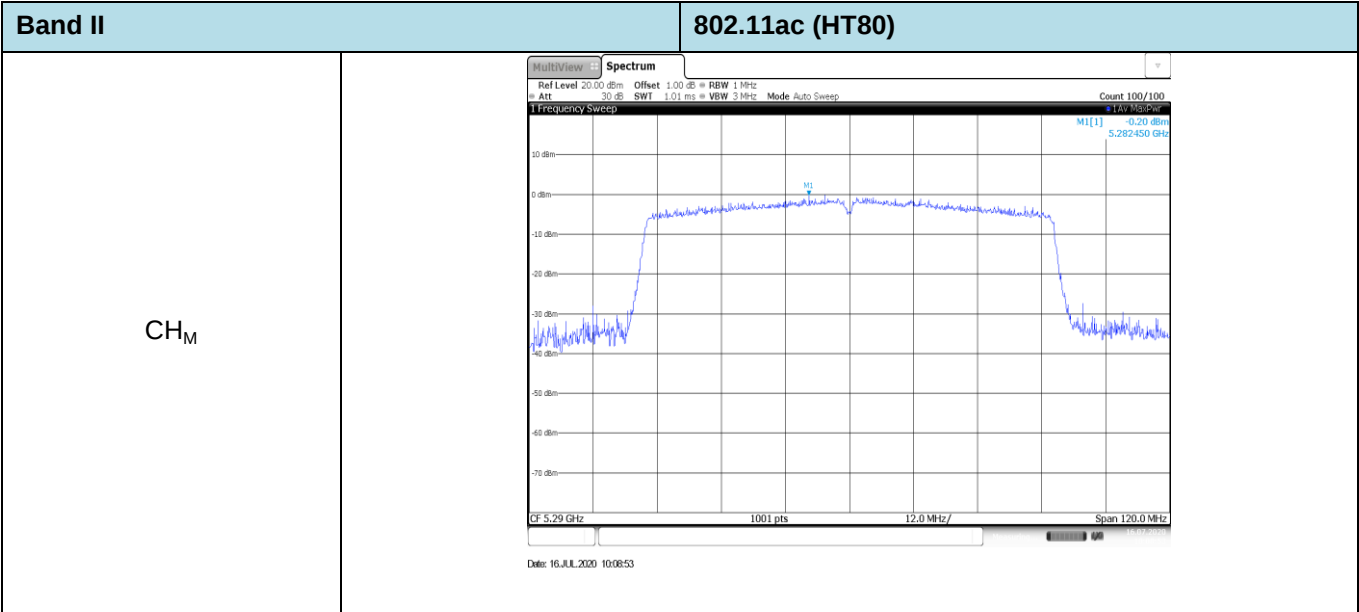
Band II		802.11ac (HT20)
CH _L	MultView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.26 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 16 JUL 2020 09:48:27	
CH _M	MultView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.28 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 16 JUL 2020 09:53:01	
CH _H	MultView 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 5.32 GHz1001 pts3.0 MHz/Span 30.0 MHz Date: 16 JUL 2020 09:55:00	

Band II		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 VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 6.20 dBm 5.2614090 GHz 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 09:15:40	
CH _M	MultiView Spectrum 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 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 JUL 2020 09:19:00	
CH _H	MultiView Spectrum 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 30 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 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	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 M1[1] 5.259800 GHz 5.259800 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.26 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:02:32	
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 M1[1] 5.2817980 GHz 5.2817980 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 5.28 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 09:09:34	
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 M1[1] 5.3185610 GHz 5.3185610 GHz Frequency Sweep 20 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm GF 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 M1 3.02 dBm 5.2713790 GHz  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 M1 2.94 dBm 5.3076620 GHz  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	

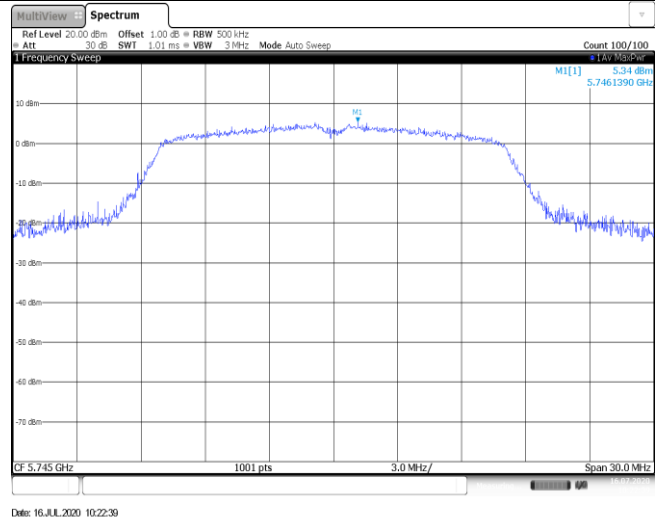
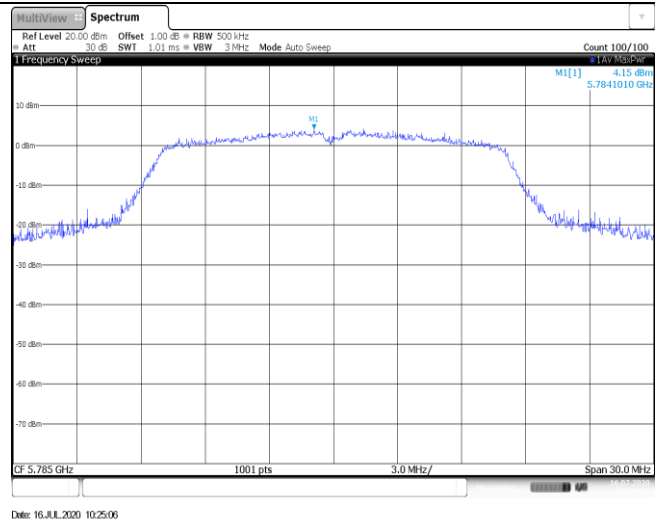
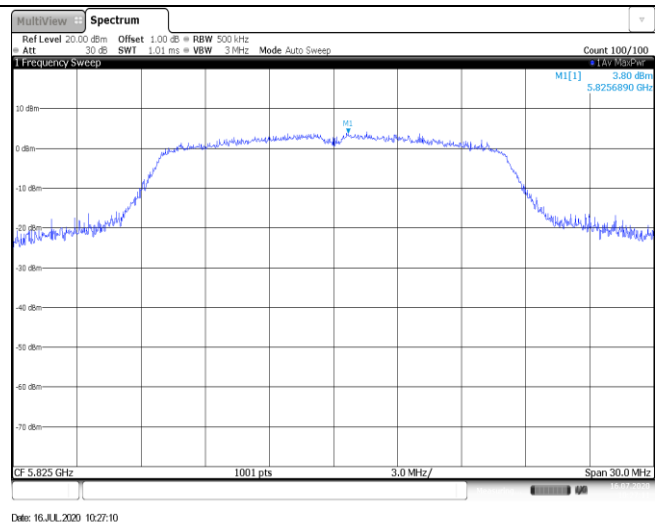


Band IV		802.11ac (HT20)
CH _L	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 M1[1] 4.00 dBm 5.7433520 GHz Frequency Sweep </	

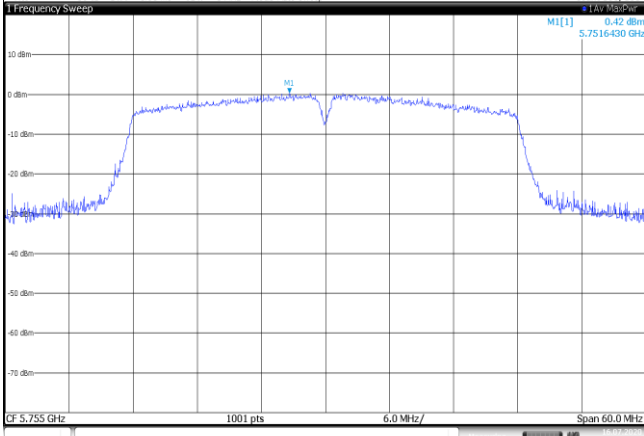
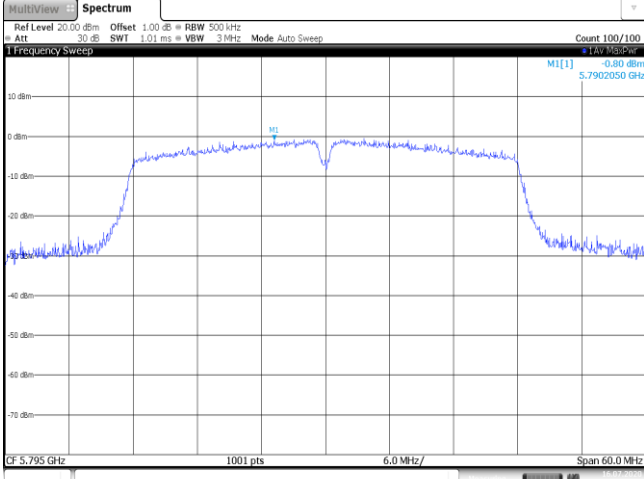
Band IV		802.11n (HT20)
CH _L	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 3.25 dBm 5.7440710 GHz 0 dBm 20 dBm 40 dBm 60 dBm 80 dBm 100 dBm CF 5.745 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:31:19	
CH _M	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 3.65 dBm 5.7828910 GHz 0 dBm 20 dBm 40 dBm 60 dBm 80 dBm 100 dBm CF 5.785 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:33:28	
CH _H	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1.01 ms VSW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep M1[1] 3.55 dBm 5.8228720 GHz 0 dBm 20 dBm 40 dBm 60 dBm 80 dBm 100 dBm CF 5.825 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16.JUL.2020 10:35:07	

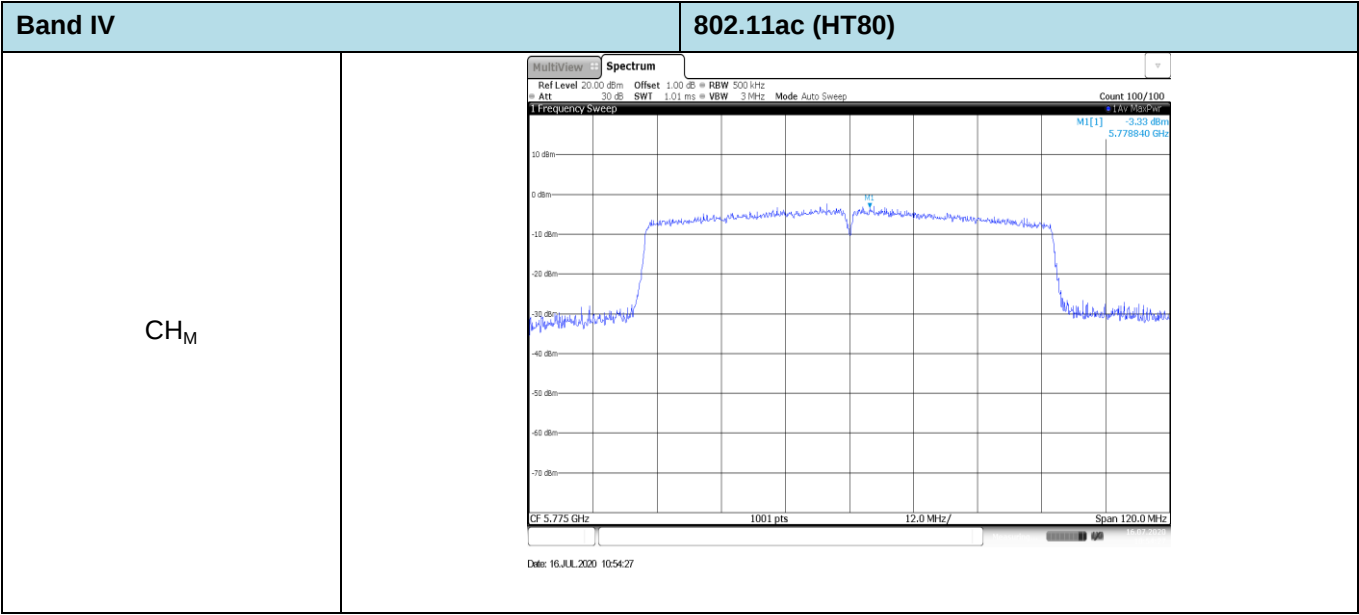
Band IV

802.11a

CH_LCH_MCH_H

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 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: 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 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: 16 JUL 2020 10:52:20	

Band IV		802.11n (HT40)	
CH _L	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.755 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 16 JUL 2020 10:37:41		
CH _H	MultiView Spectrum Ref Level 20.00 dBm Att 30 dB Offset 1.00 dB RBW 500 kHz SWT 1.01 ms VBW 3 MHz Mode Auto Sweep Count 100/100 Frequency Sweep  CF 5.795 GHz1001 pts6.0 MHz/Span 60.0 MHz Date: 16 JUL 2020 10:40:09		

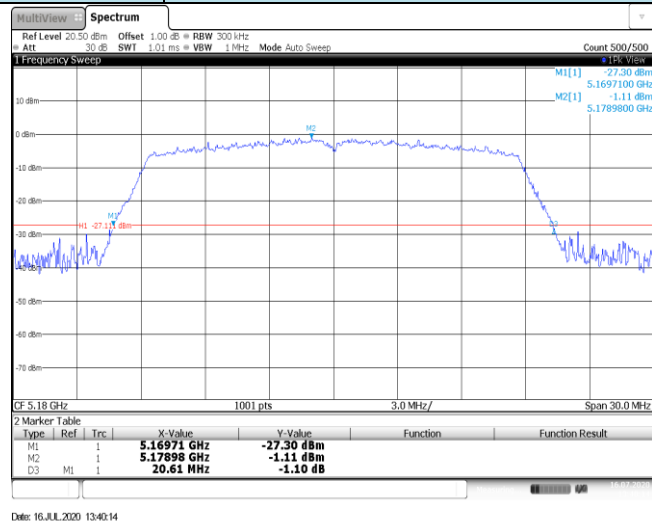


Appendix C: 26dB bandwidth

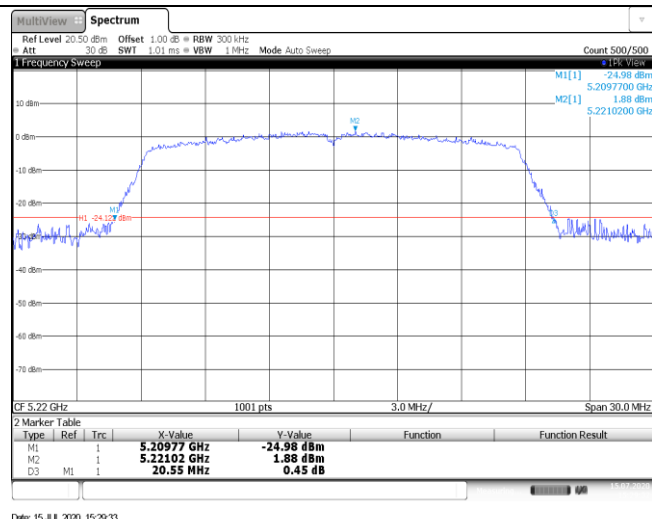
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11ac	CH _L	20.61	Pass
			CH _M	20.55	
			CH _H	20.61	
		802.11n	CH _L	20.46	Pass
			CH _M	20.64	
			CH _H	20.58	
		802.11a	CH _L	20.46	Pass
			CH _M	20.25	
			CH _H	20.22	
	40	802.11ac	CH _L	41.34	Pass
			CH _H	40.92	
		802.11n	CH _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

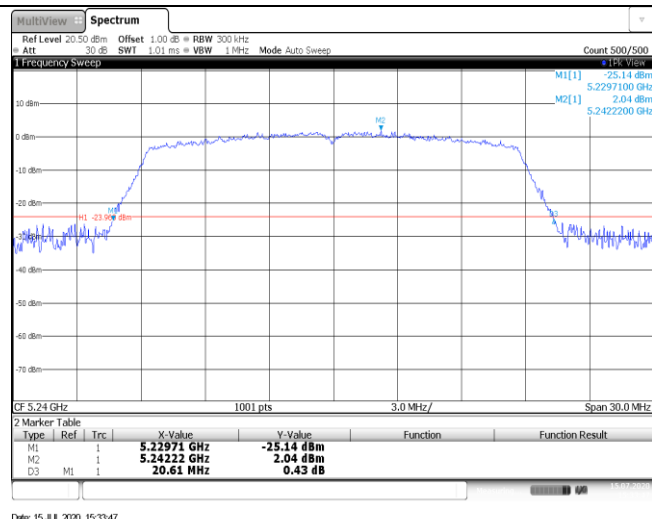
802.11ac (HT20)

$$\text{CH}_L$$


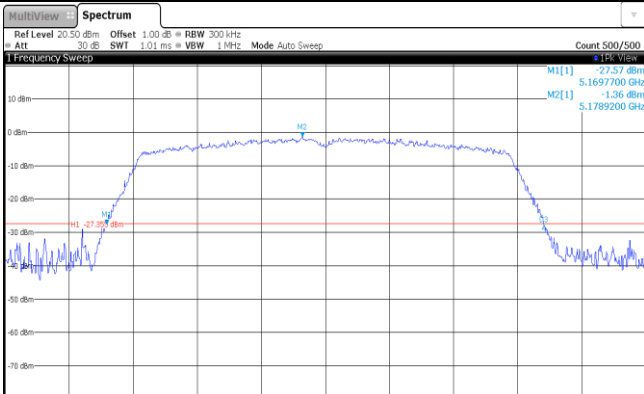
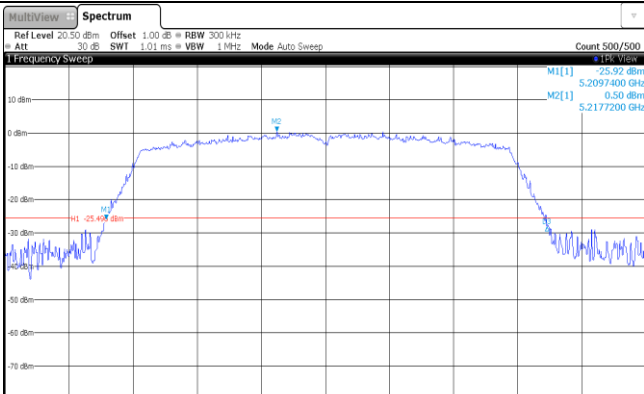
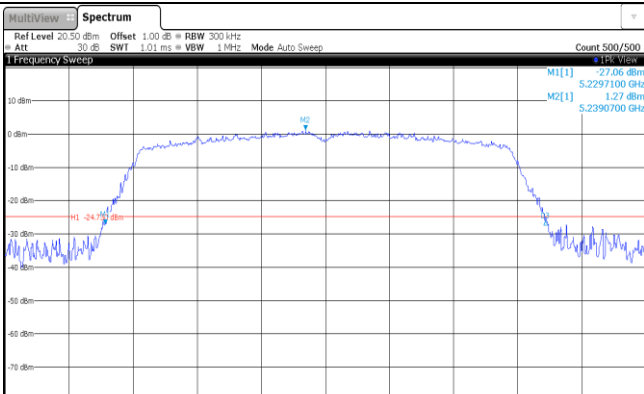
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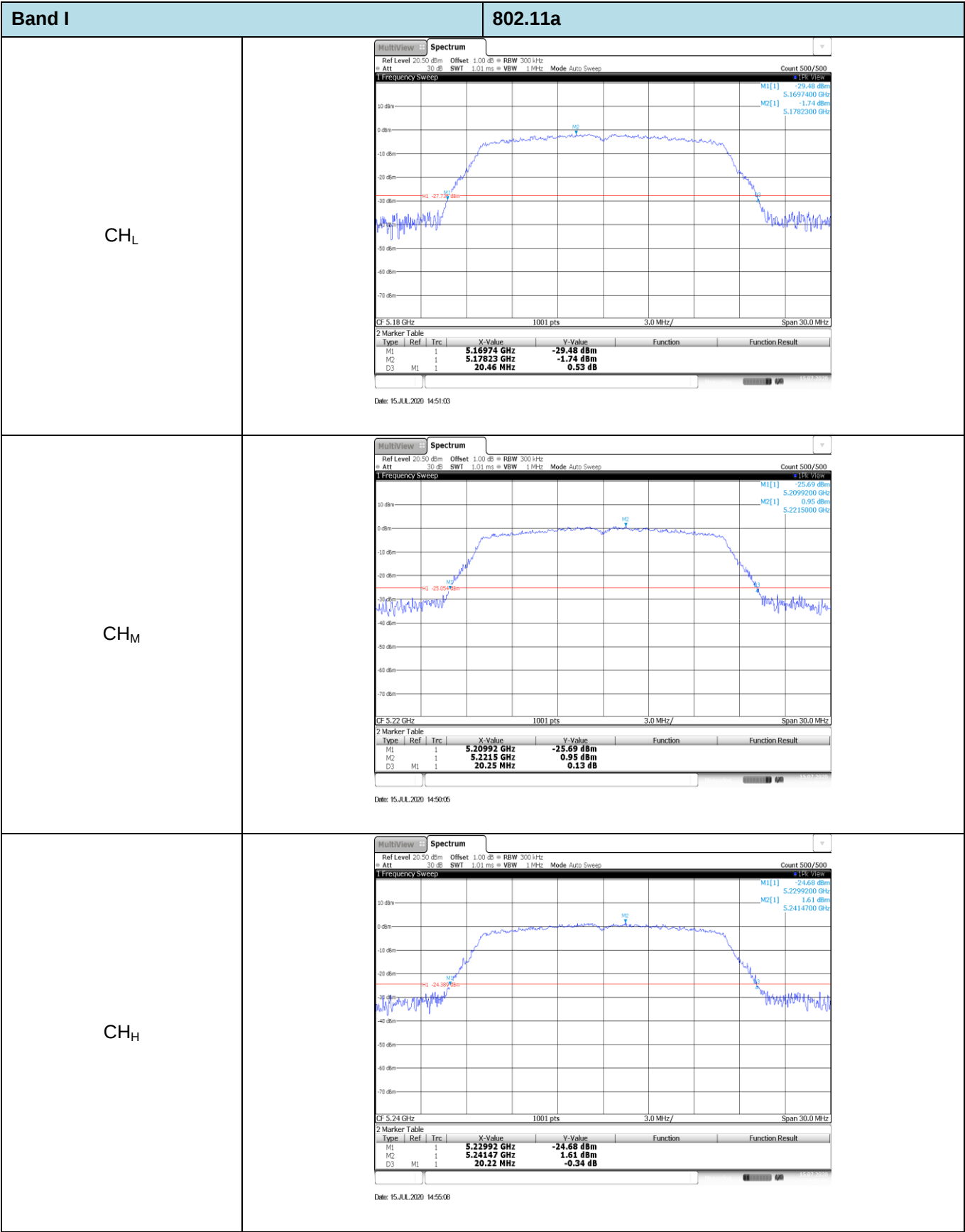
$$\text{CH}_M$$


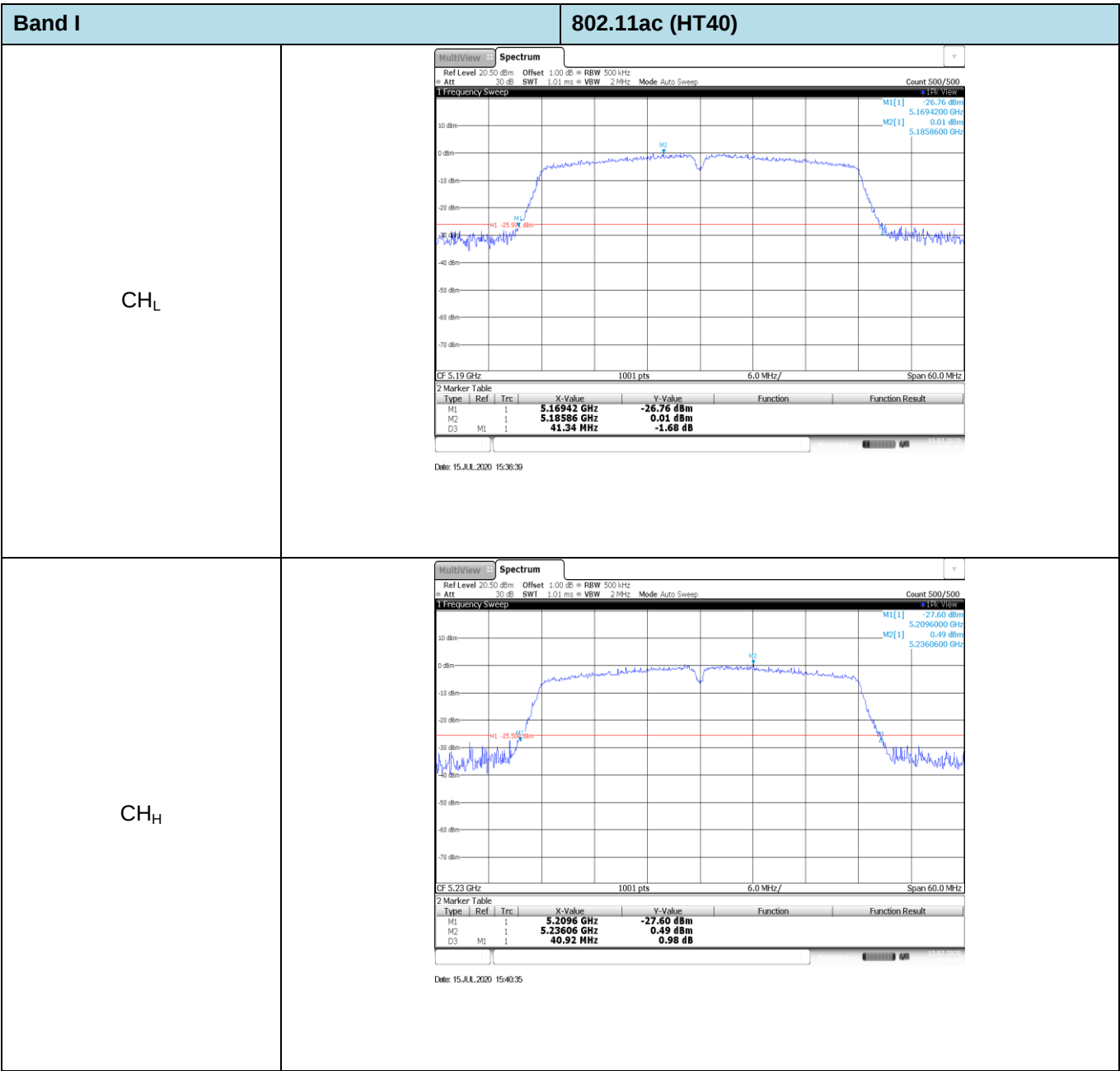
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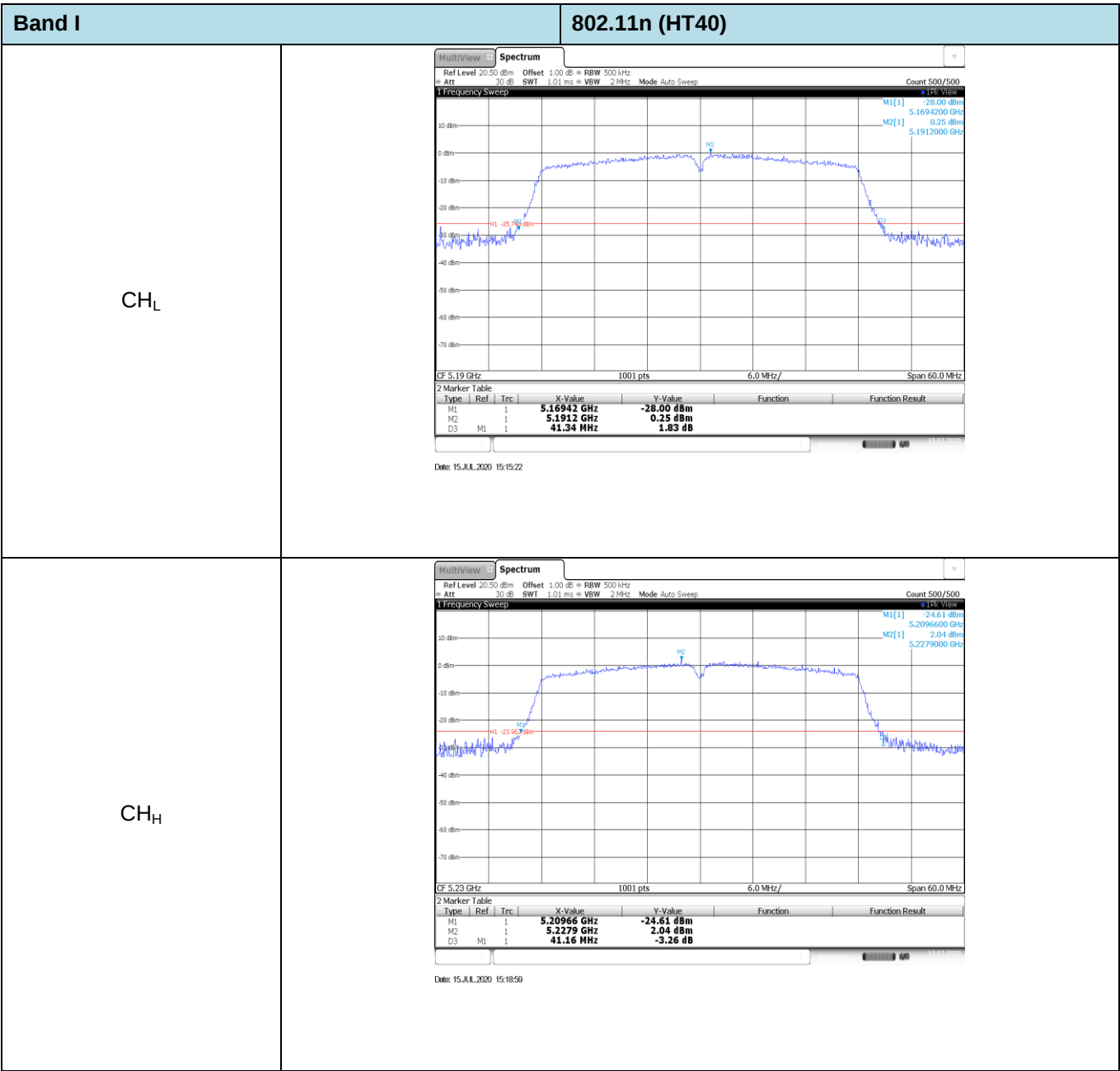
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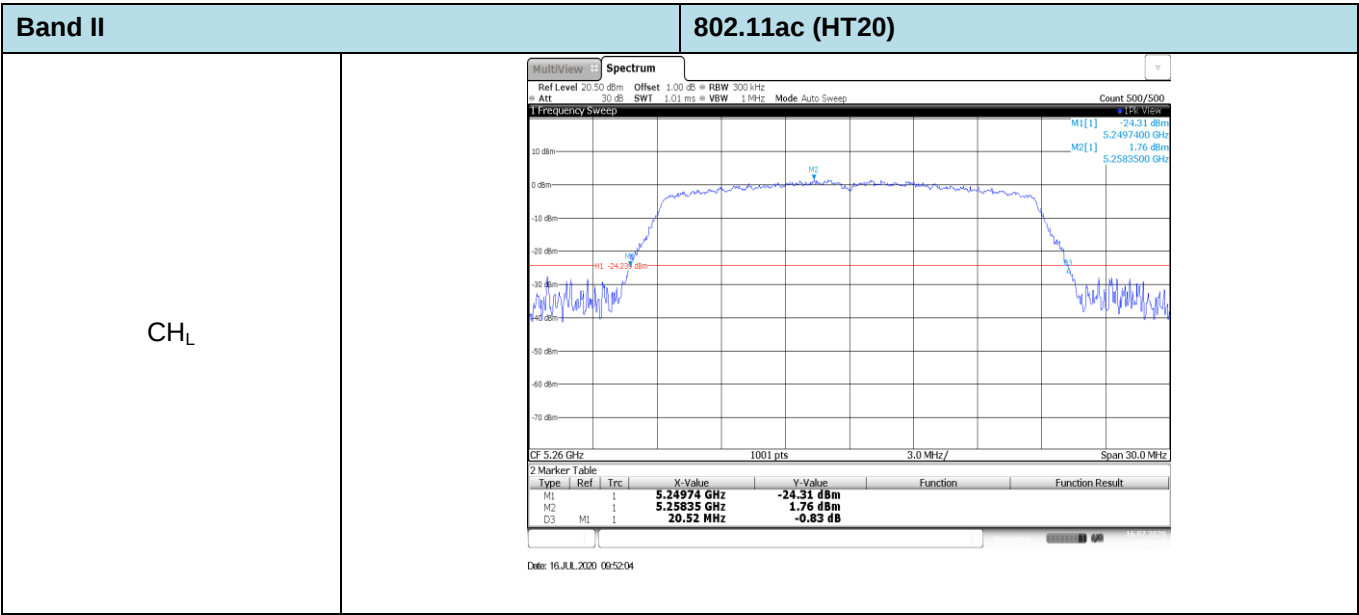
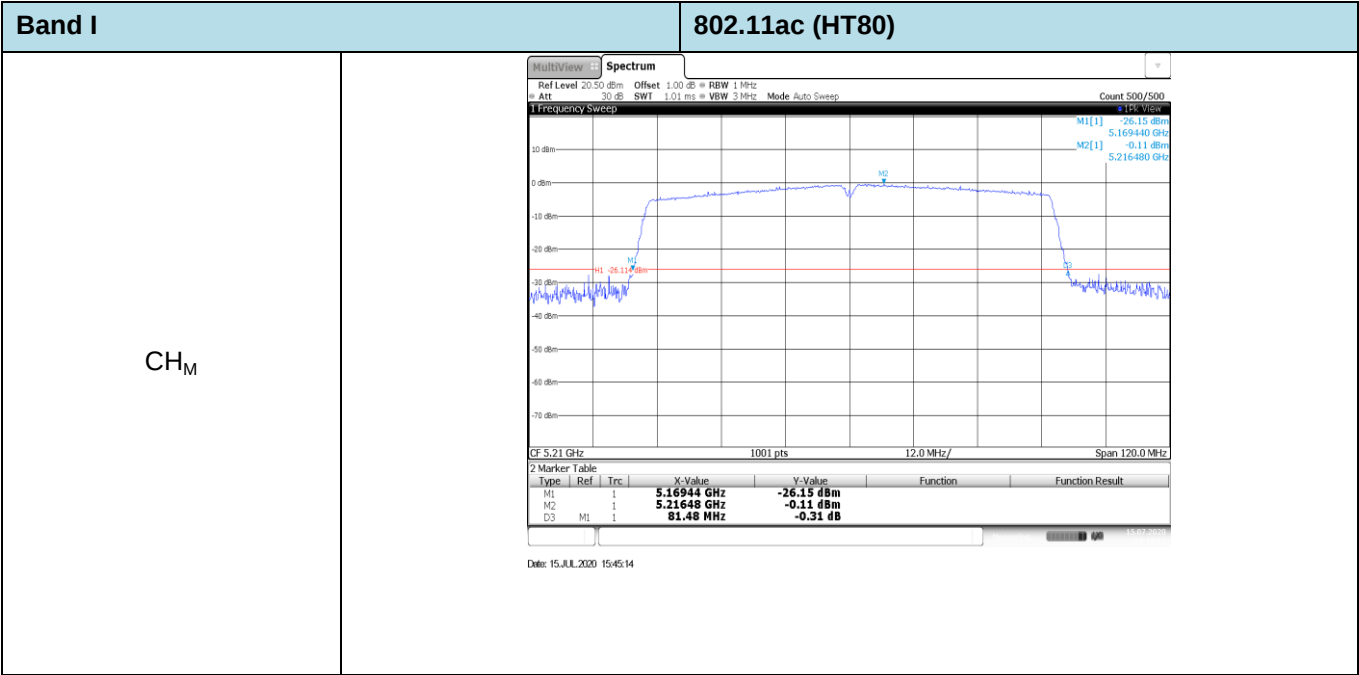
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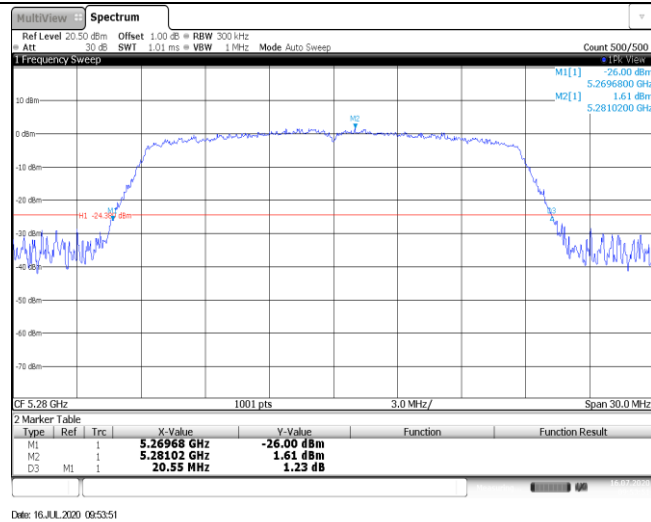
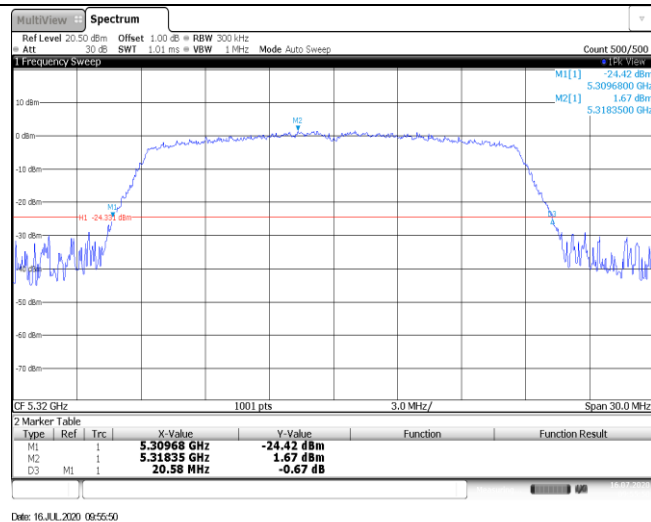
Band I		802.11n (HT20)																											
CH _L	MultViewSpectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500 Frequency Sweep  CF 5.18 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></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 Frequency Sweep  CF 5.22 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></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 Frequency Sweep  CF 5.24 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></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																									





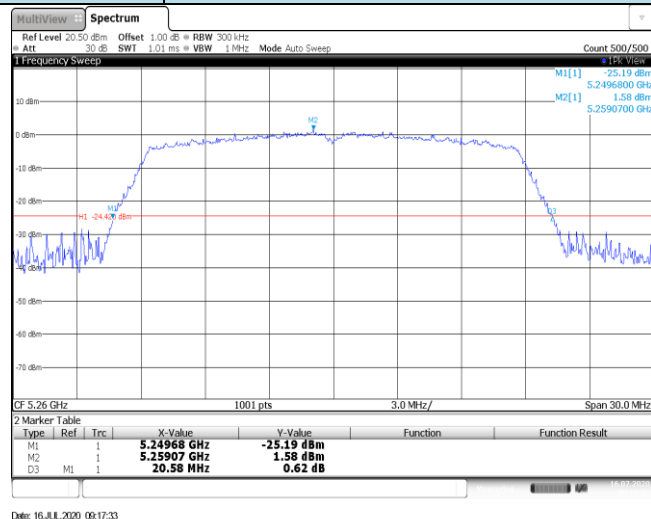


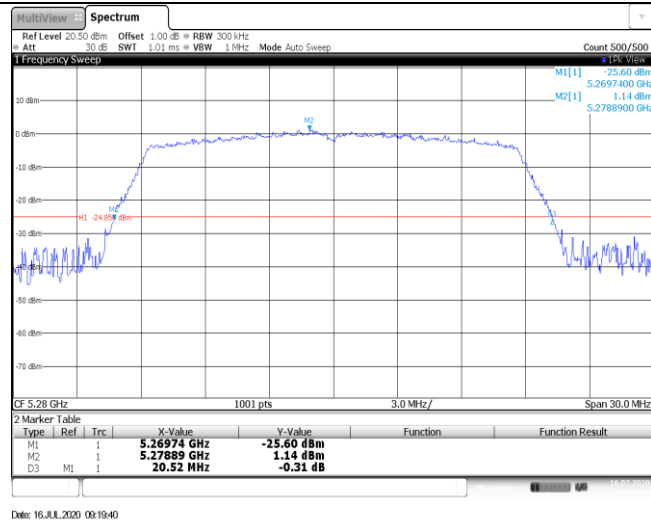
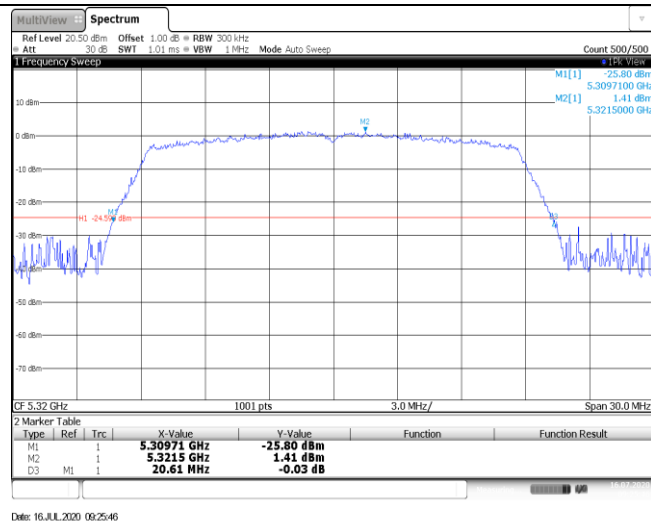


$$\text{CH}_M$$

$$\text{CH}_H$$


Band II

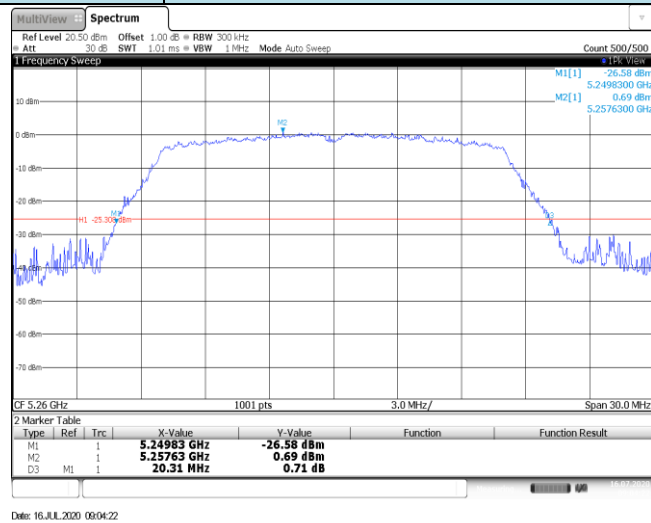
802.11n (HT20)

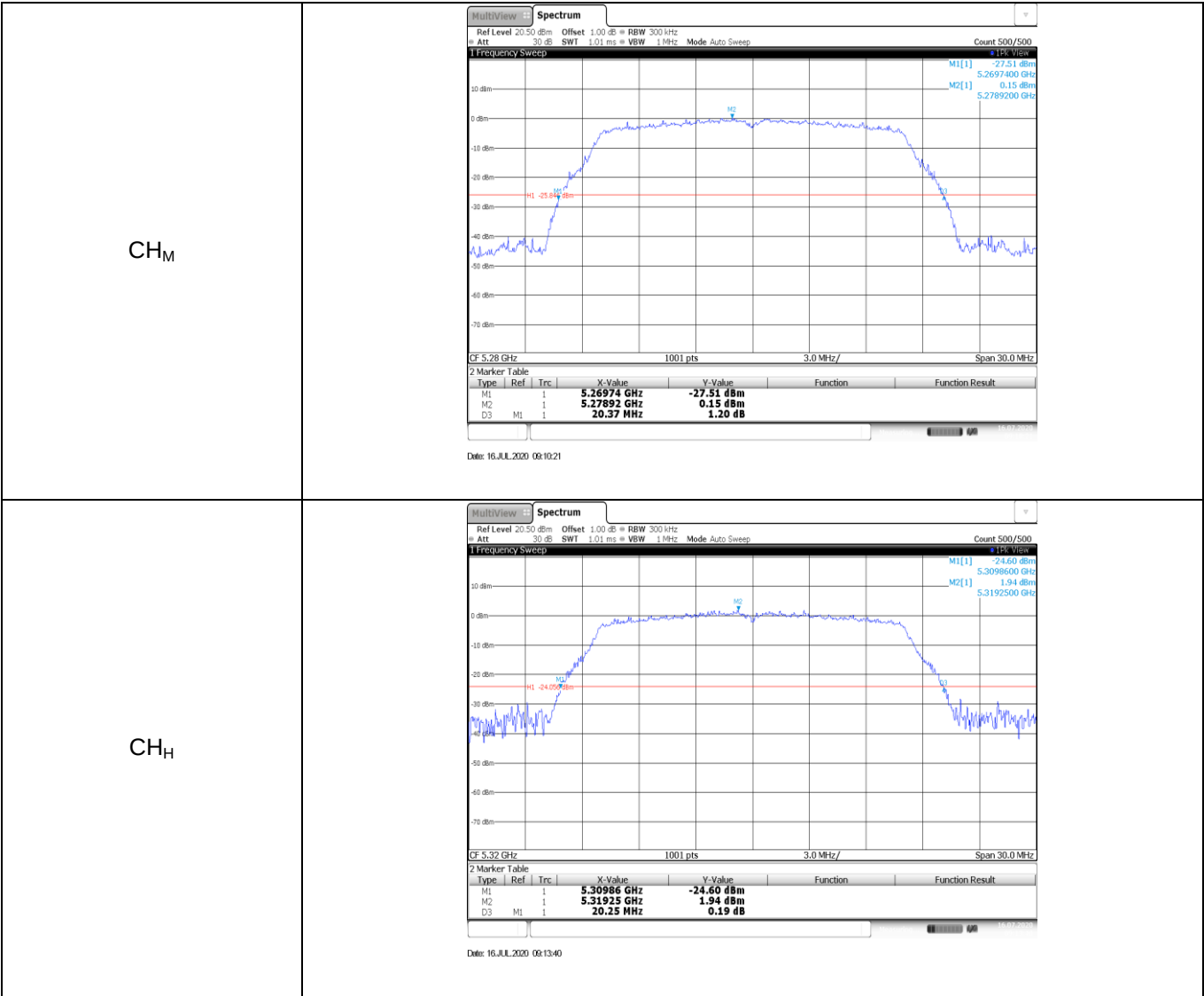
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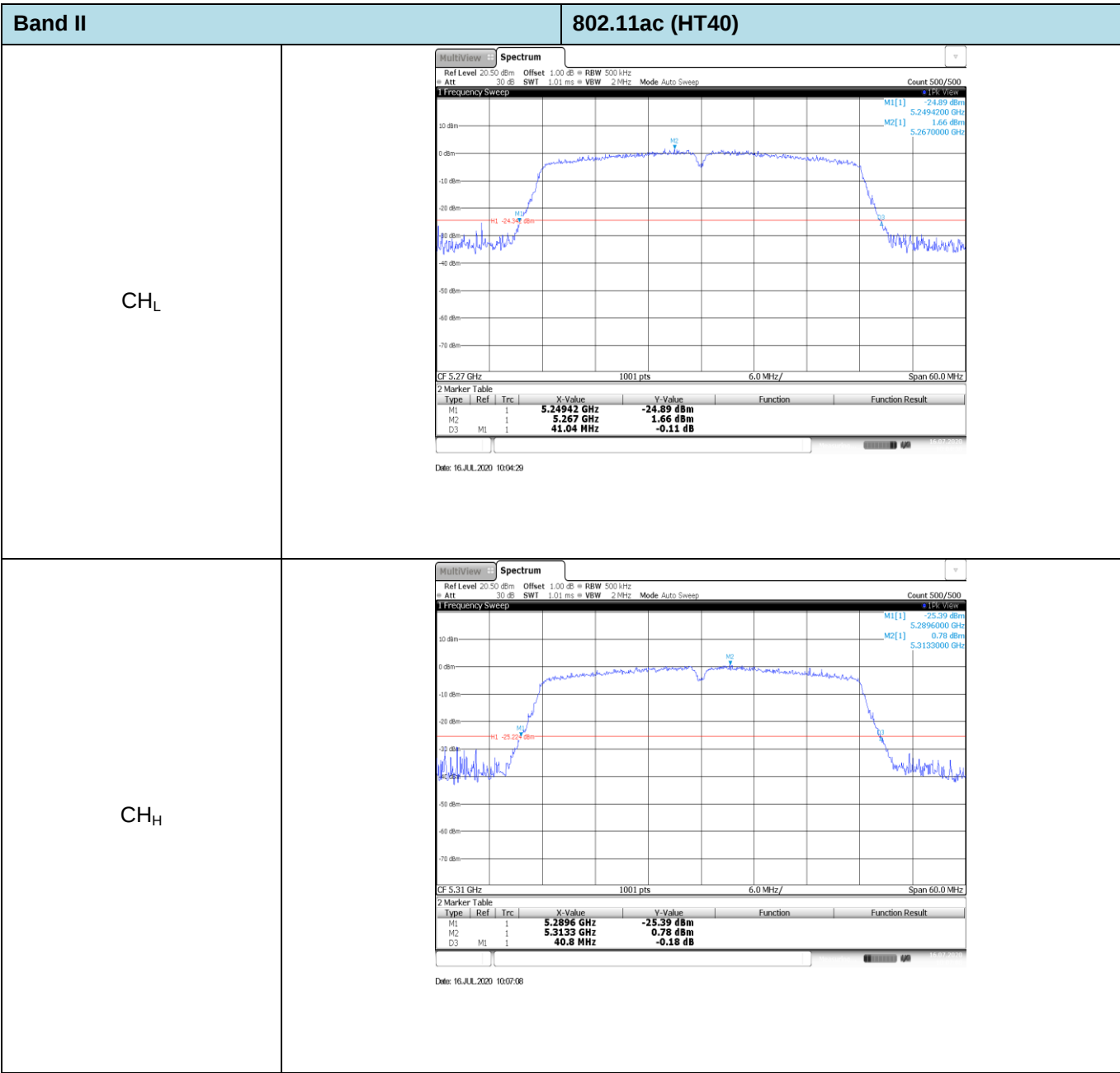
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$$\text{CH}_H$$


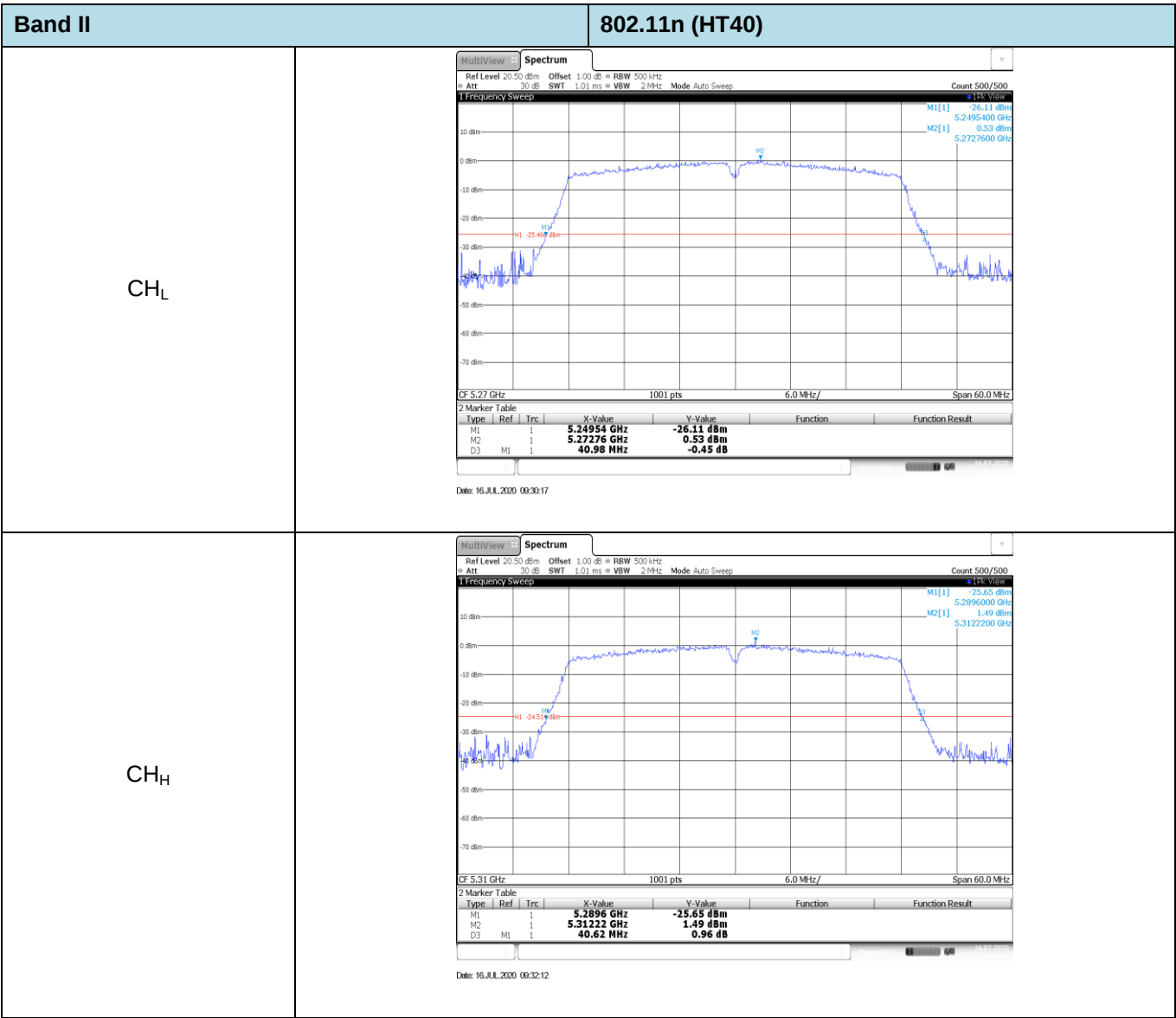
Band II

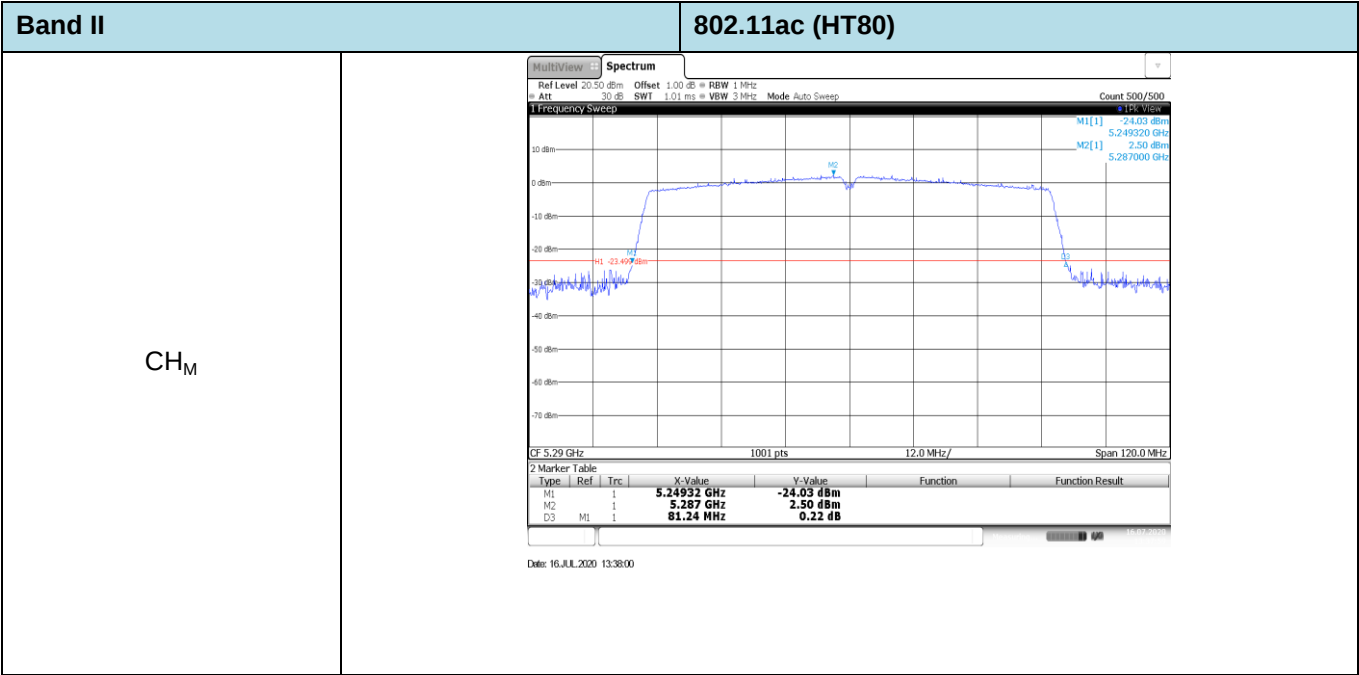
802.11a

$$\text{CH}_L$$






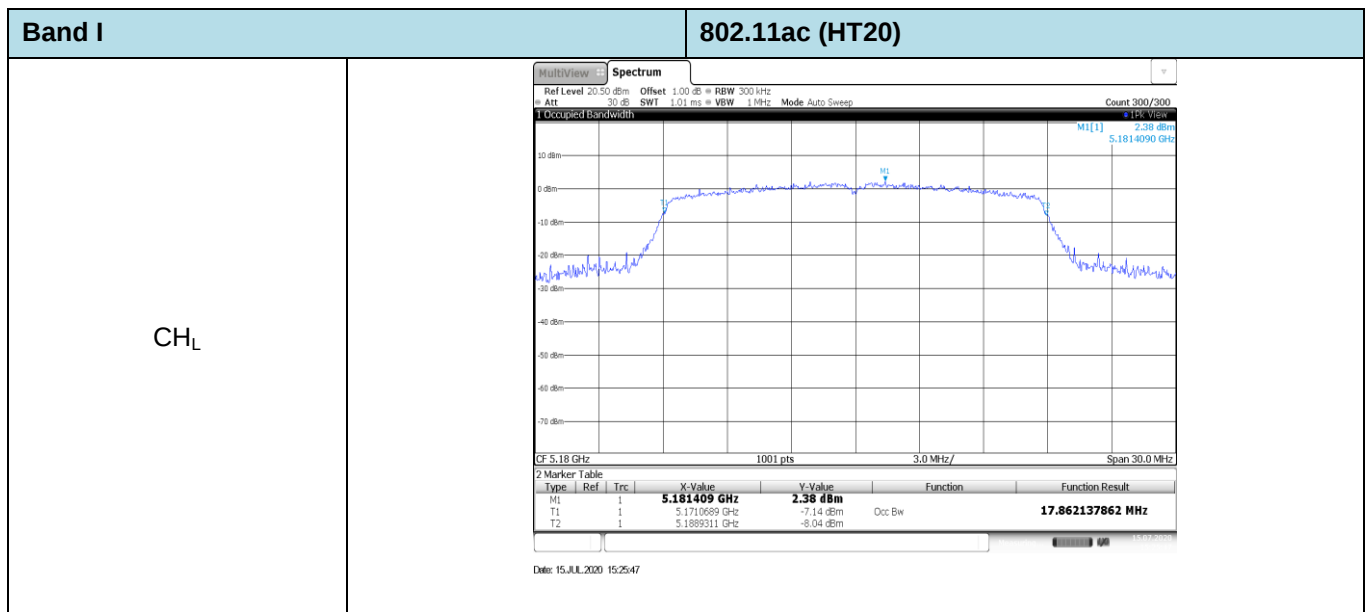


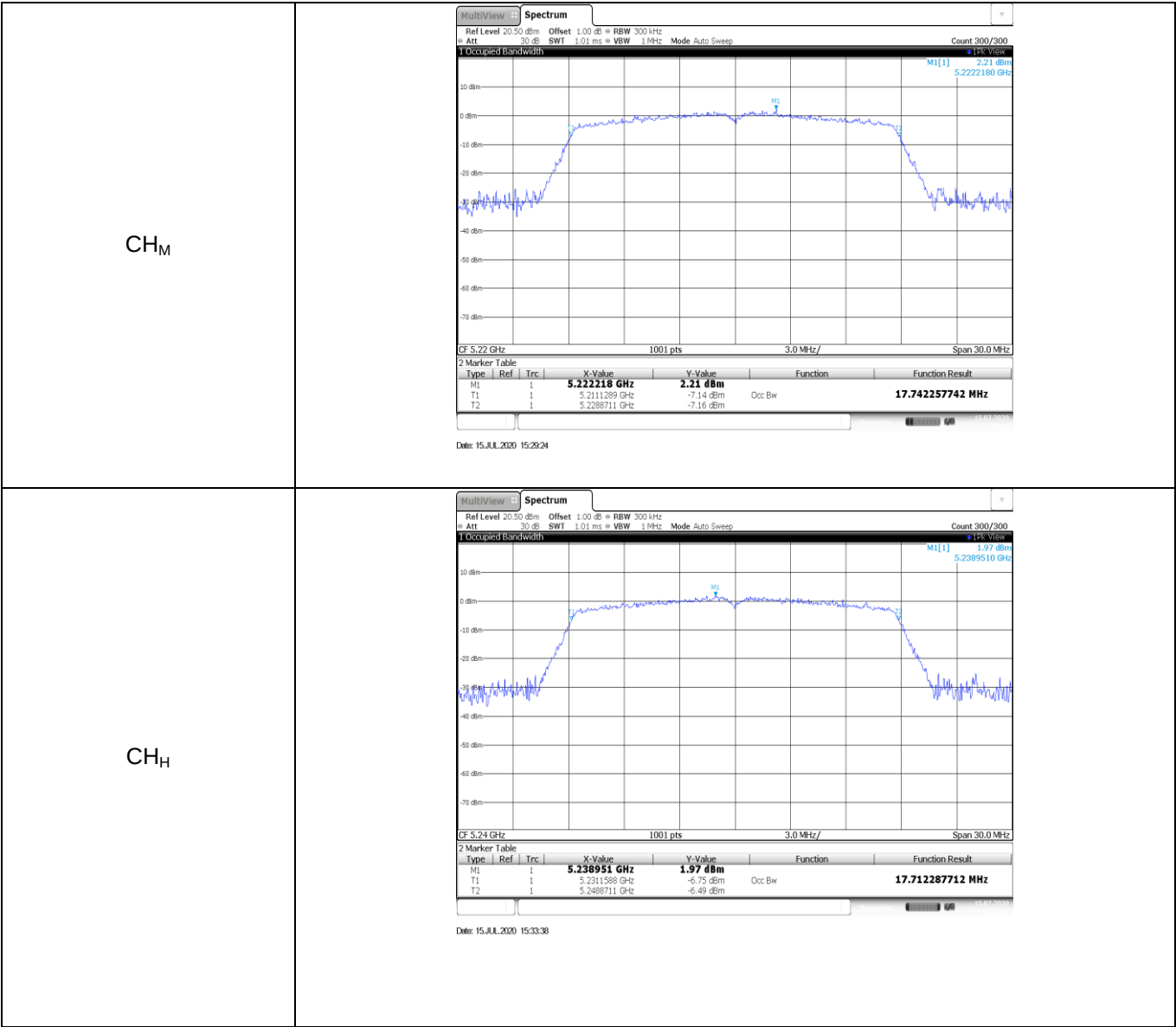


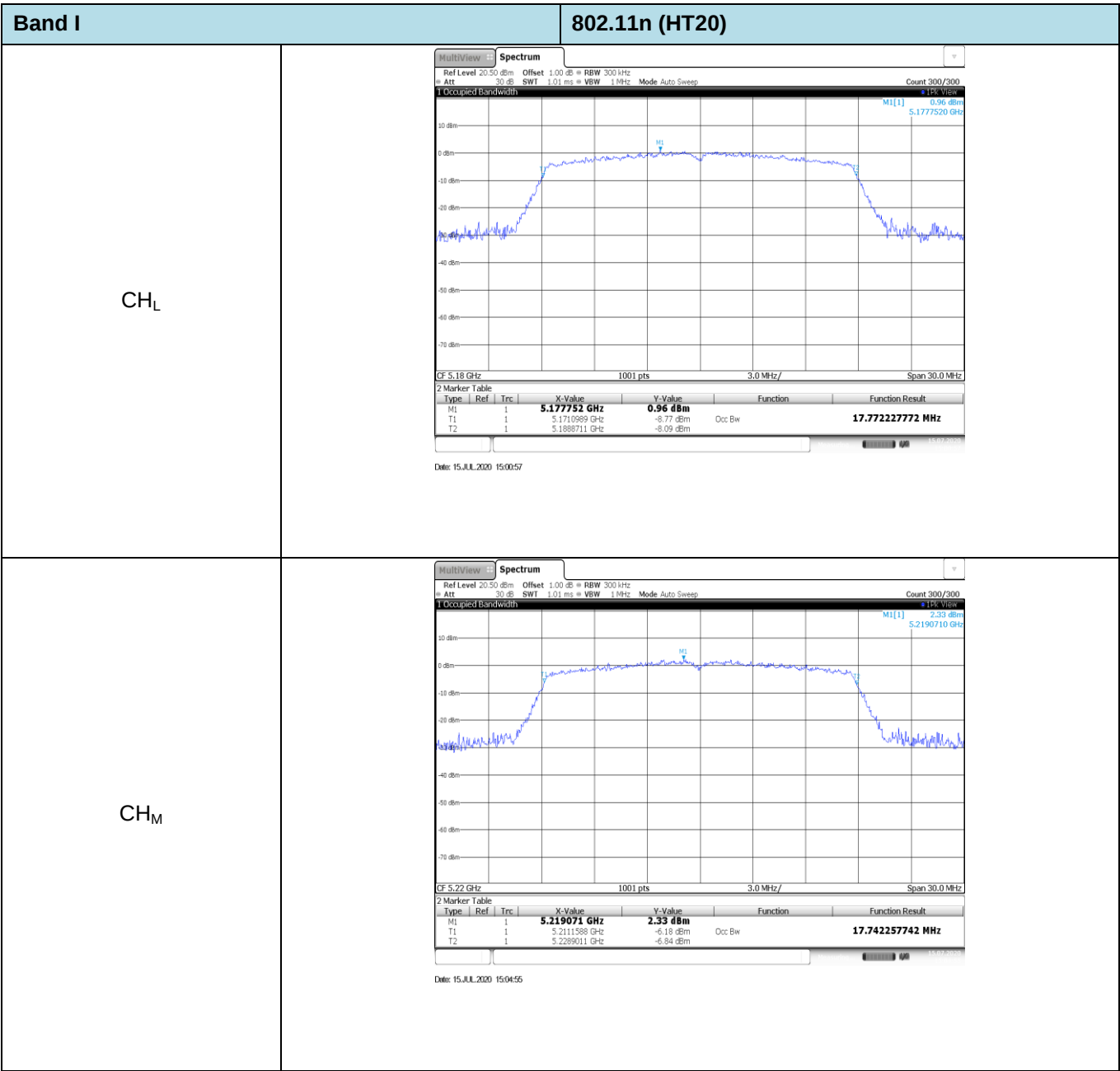
Appendix D: 99% Occupy bandwidth

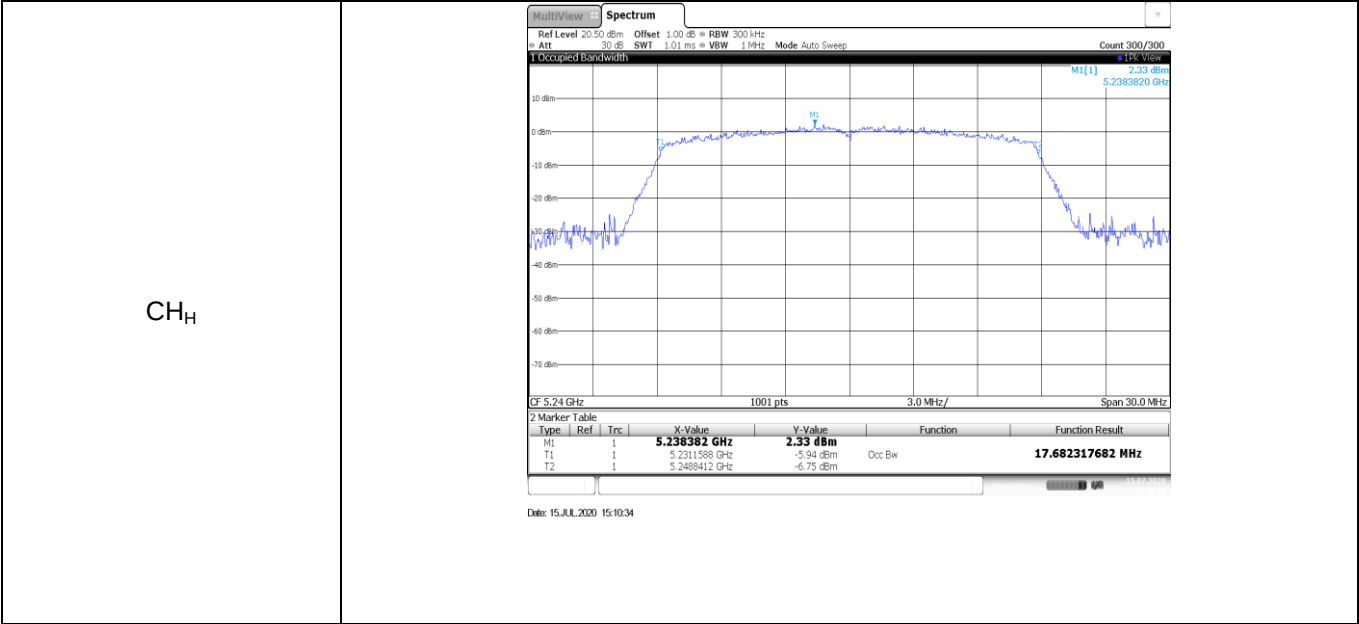
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
I	20	802.11ac	CH _L	17.86	Pass
			CH _M	17.74	
			CH _H	17.71	
		802.11n	CH _L	17.77	Pass
			CH _M	17.74	
			CH _H	17.68	
		802.11a	CH _L	16.72	Pass
			CH _M	16.69	
			CH _H	16.72	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.14	
		802.11n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

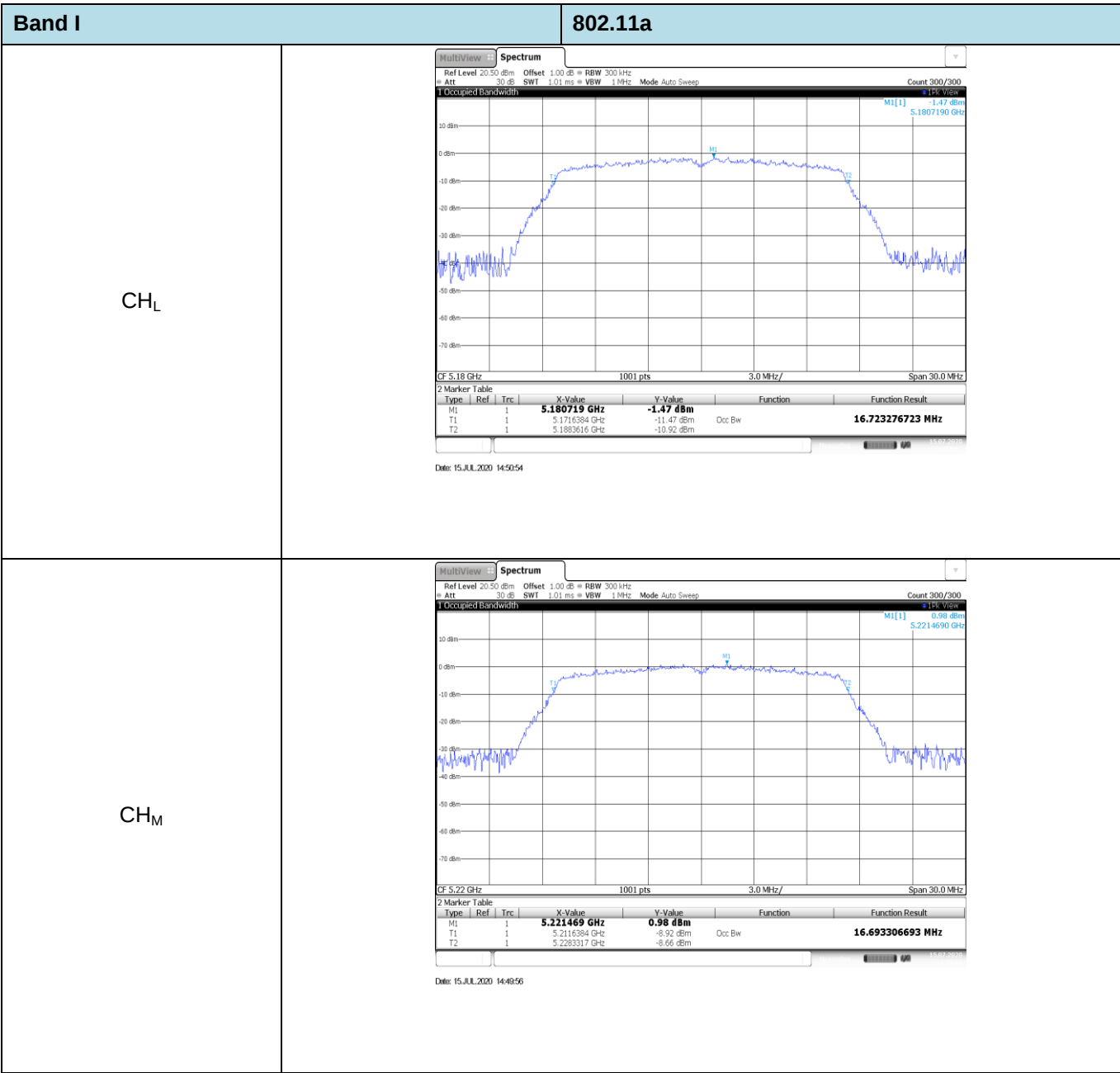
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.80	Pass
			CH _M	17.77	
			CH _H	17.83	
		802.11n	CH _L	17.74	Pass
			CH _M	17.77	
			CH _H	17.80	
		802.11a	CH _L	16.75	Pass
			CH _M	16.78	
			CH _H	16.81	
	40	802.11ac	CH _L	36.14	Pass
			CH _H	36.32	
		802.11n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

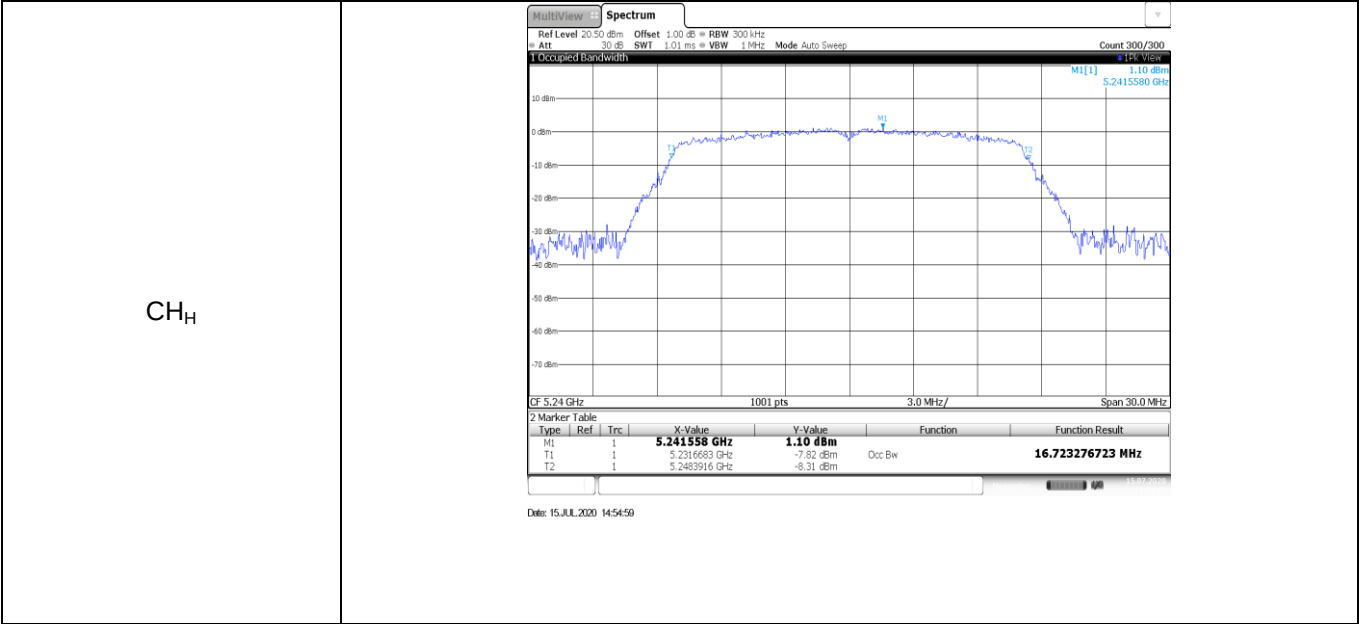


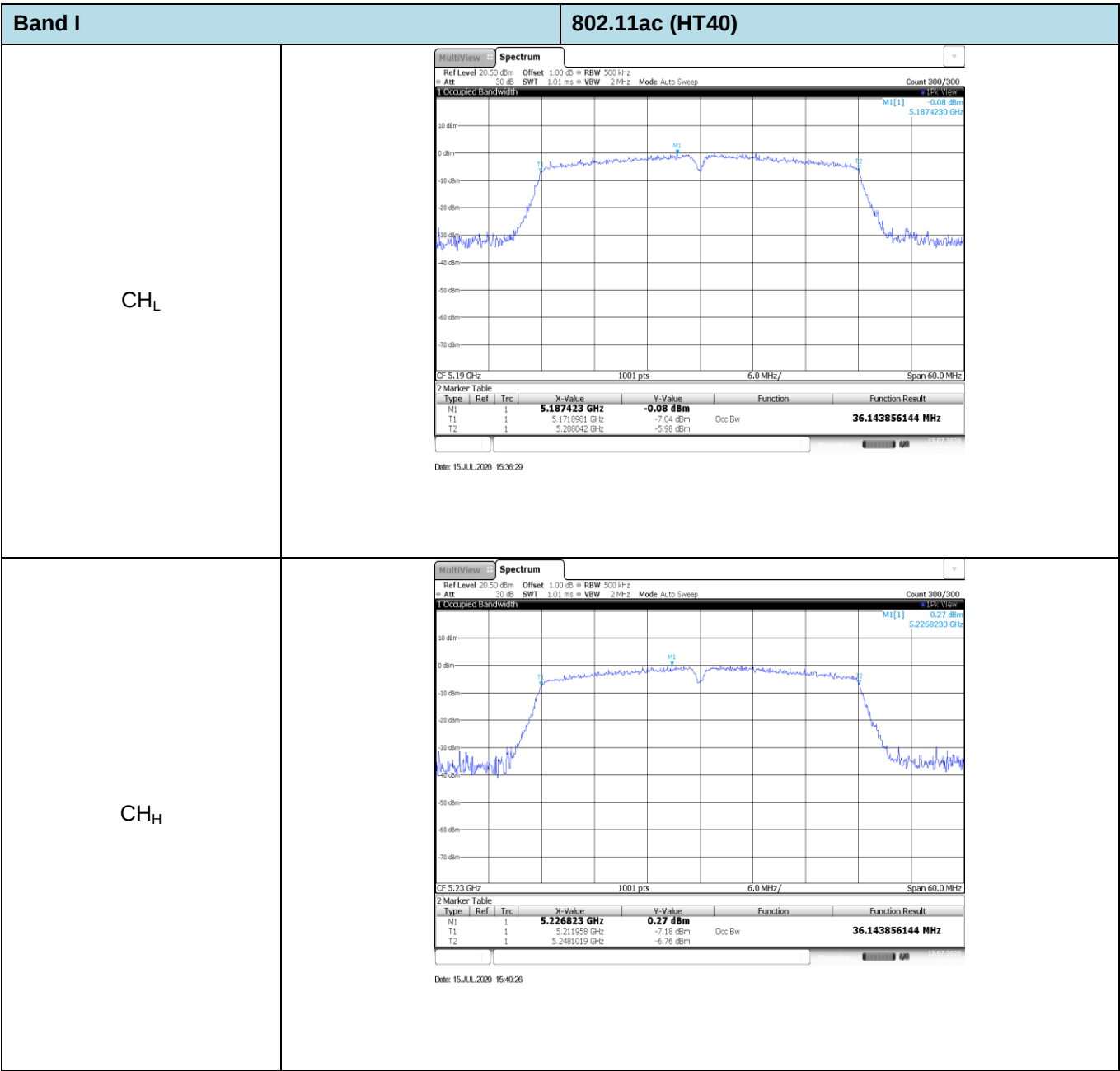


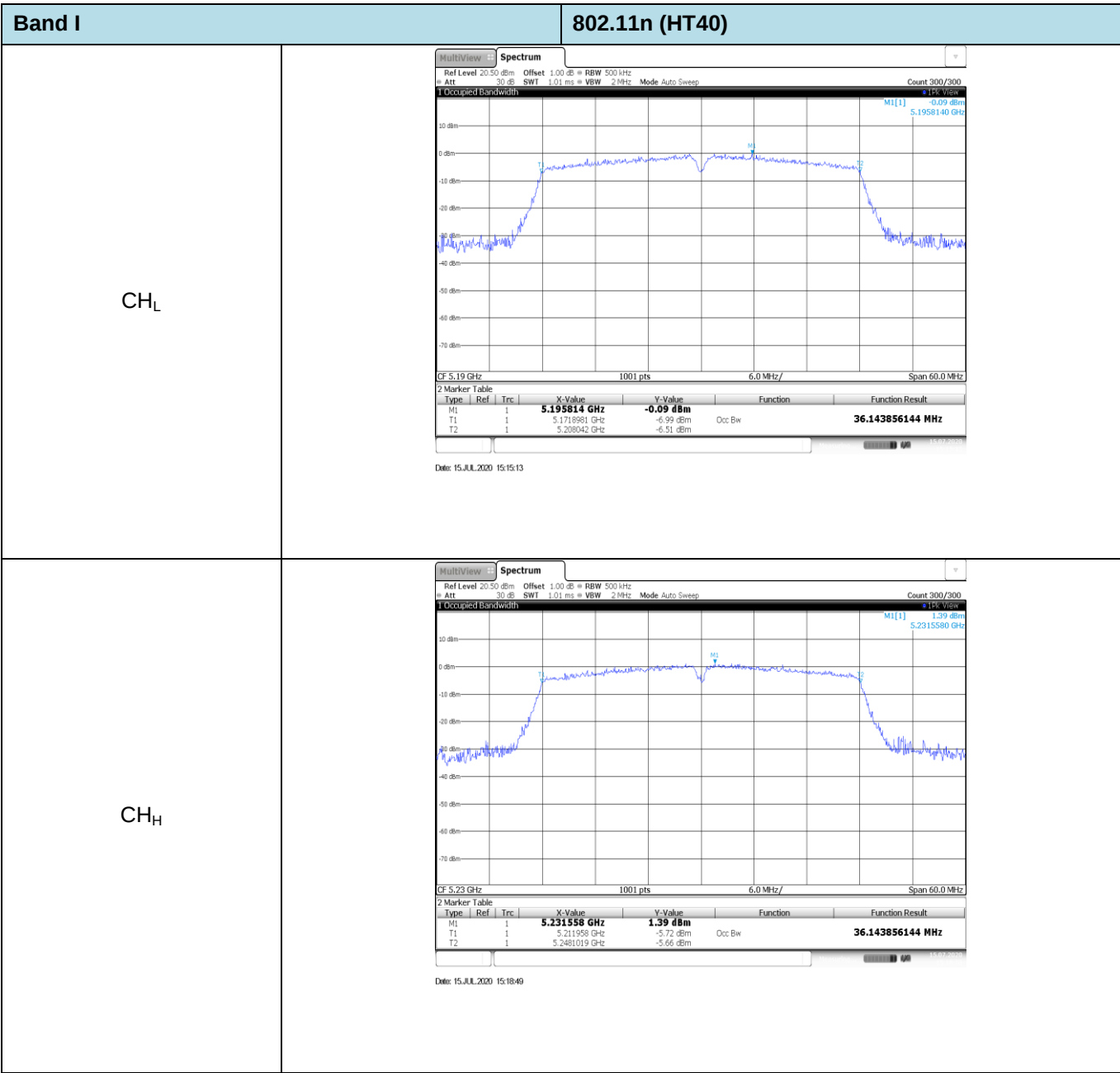


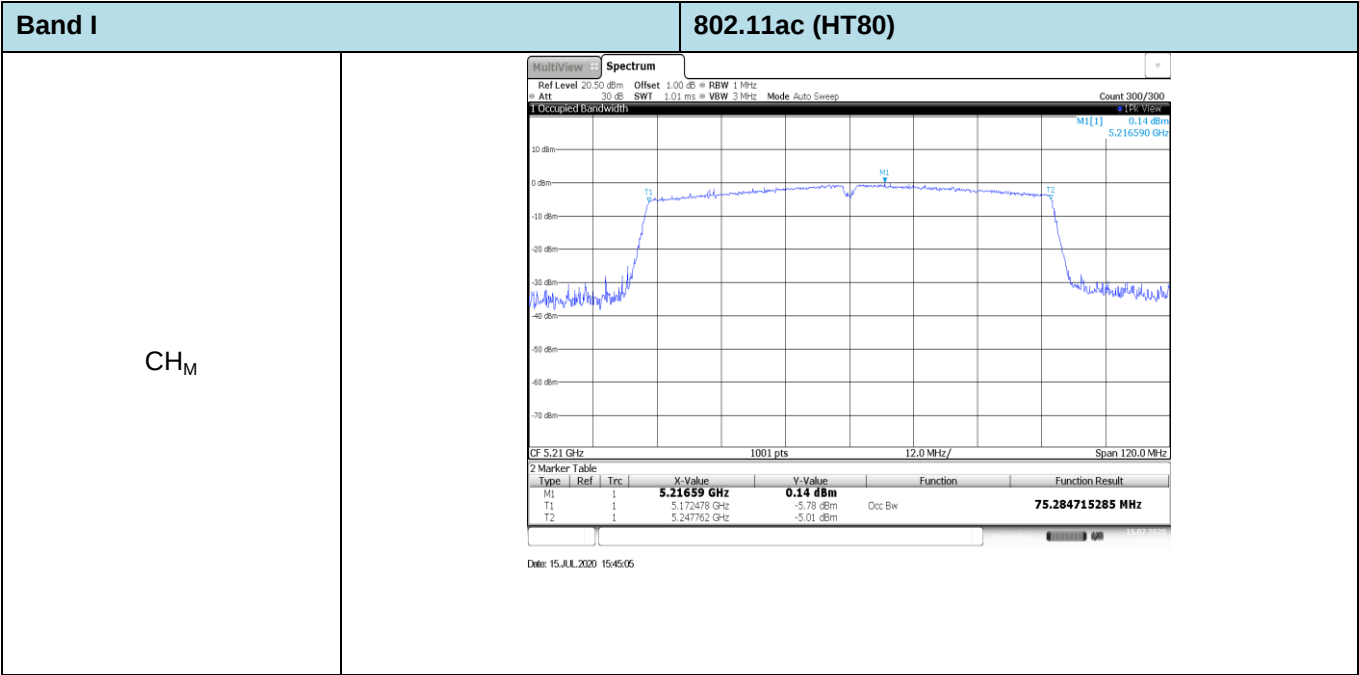


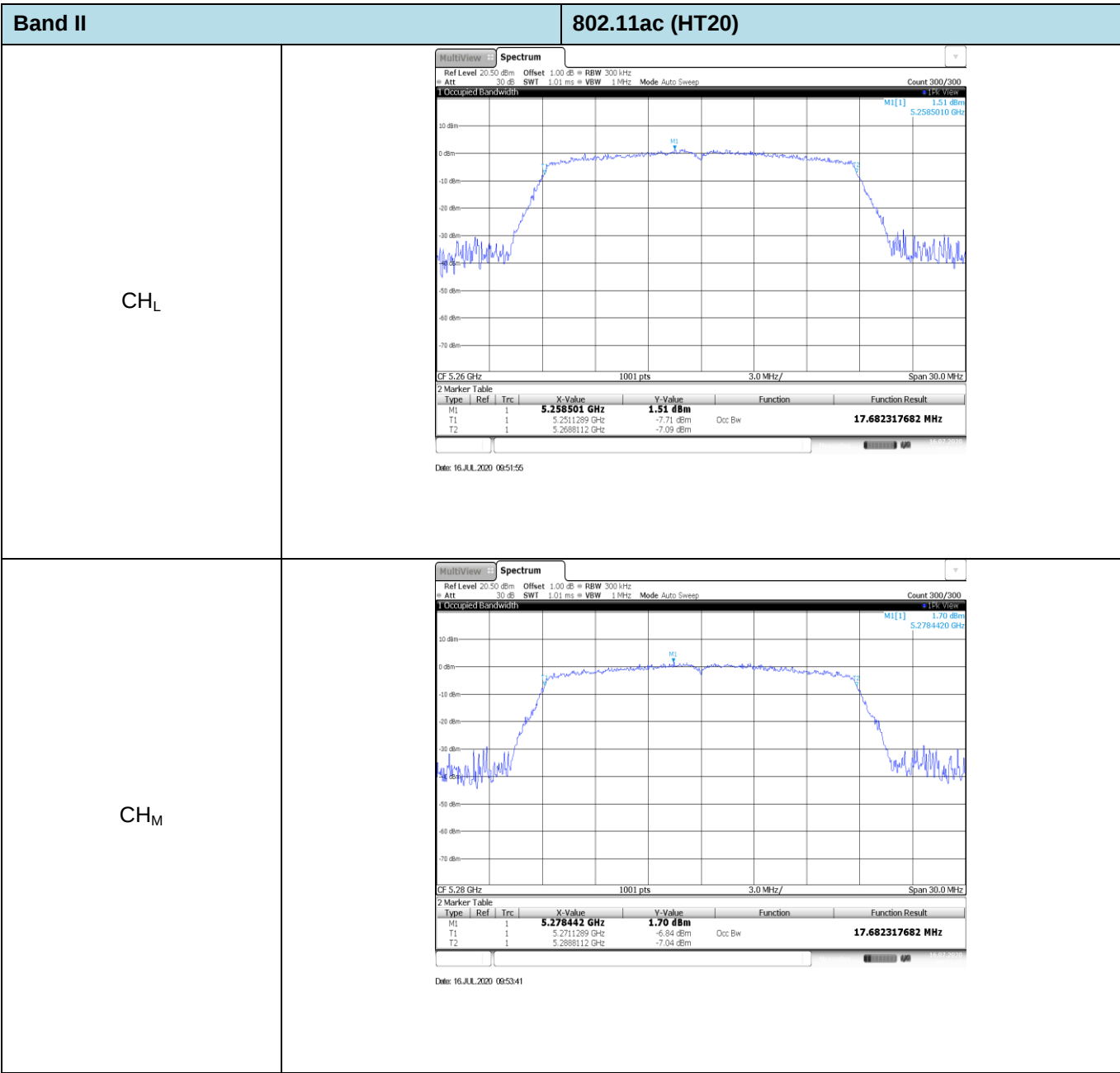


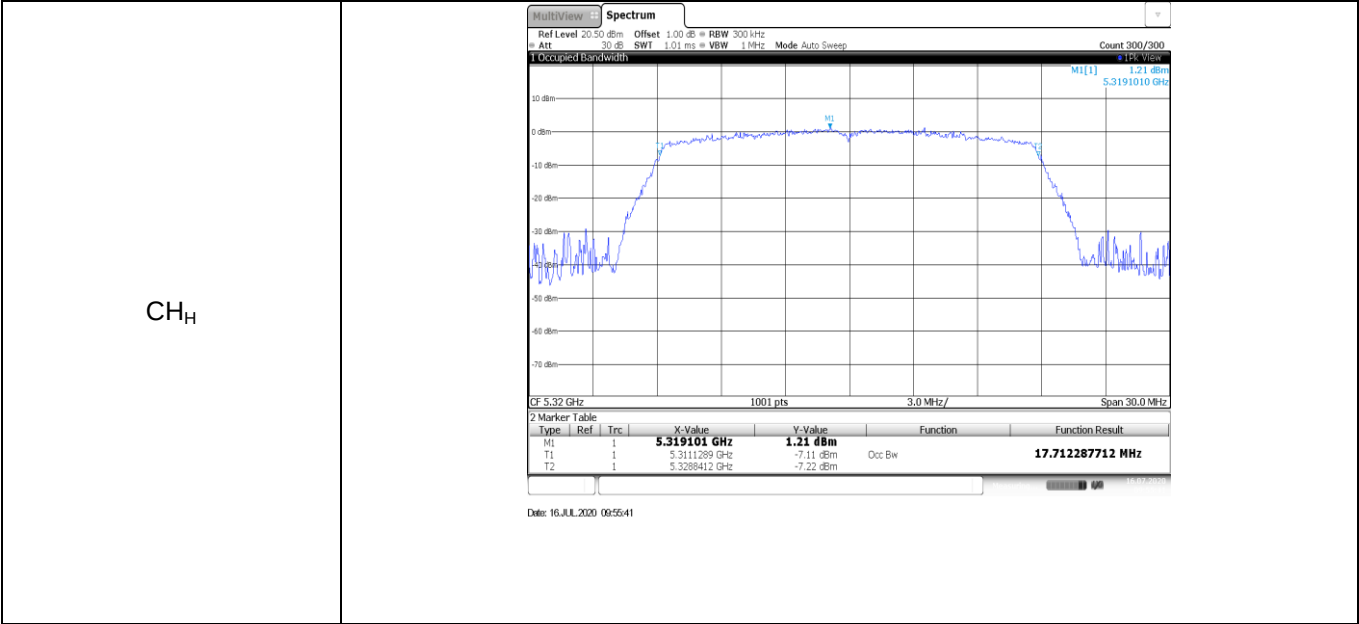


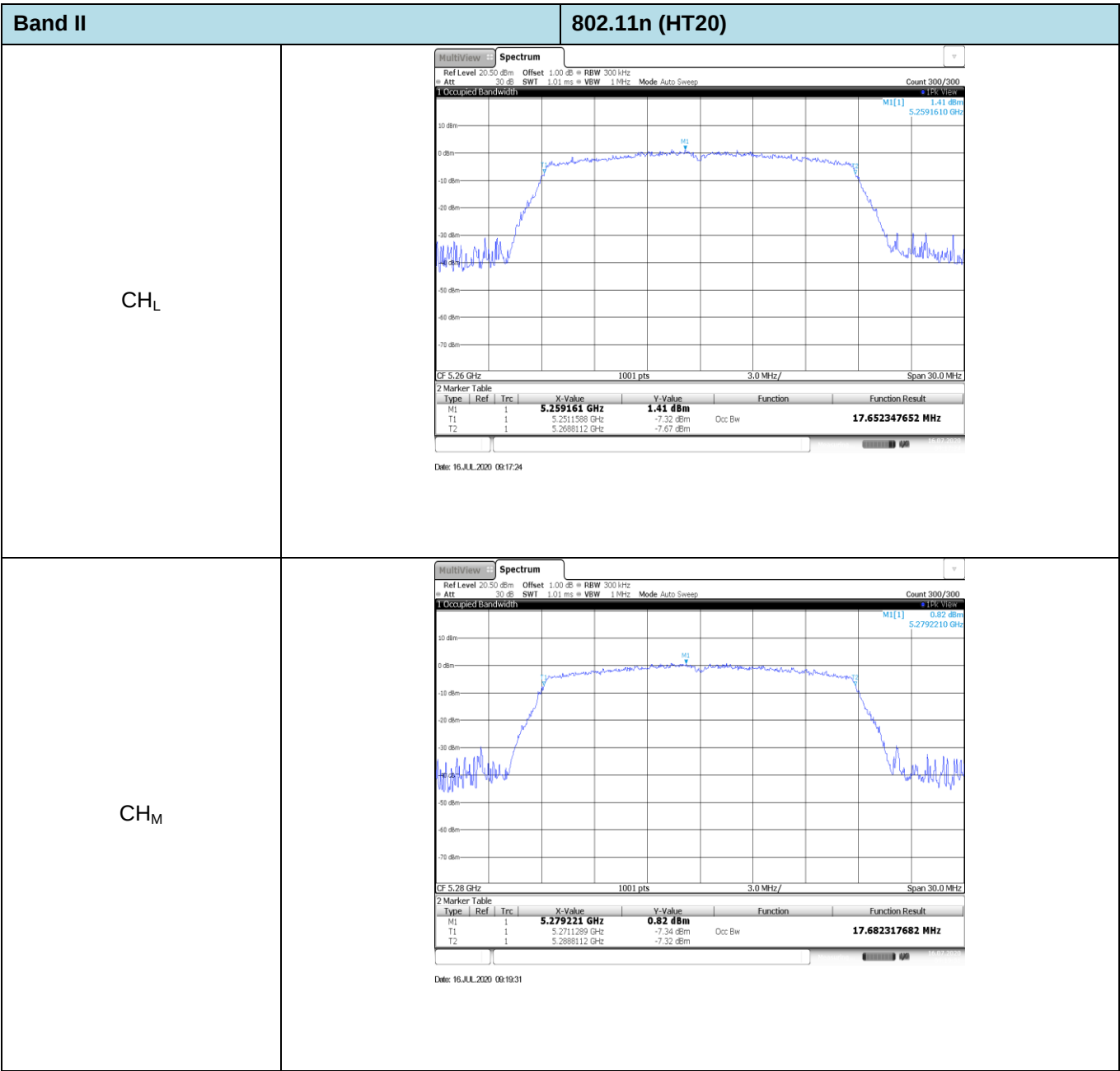


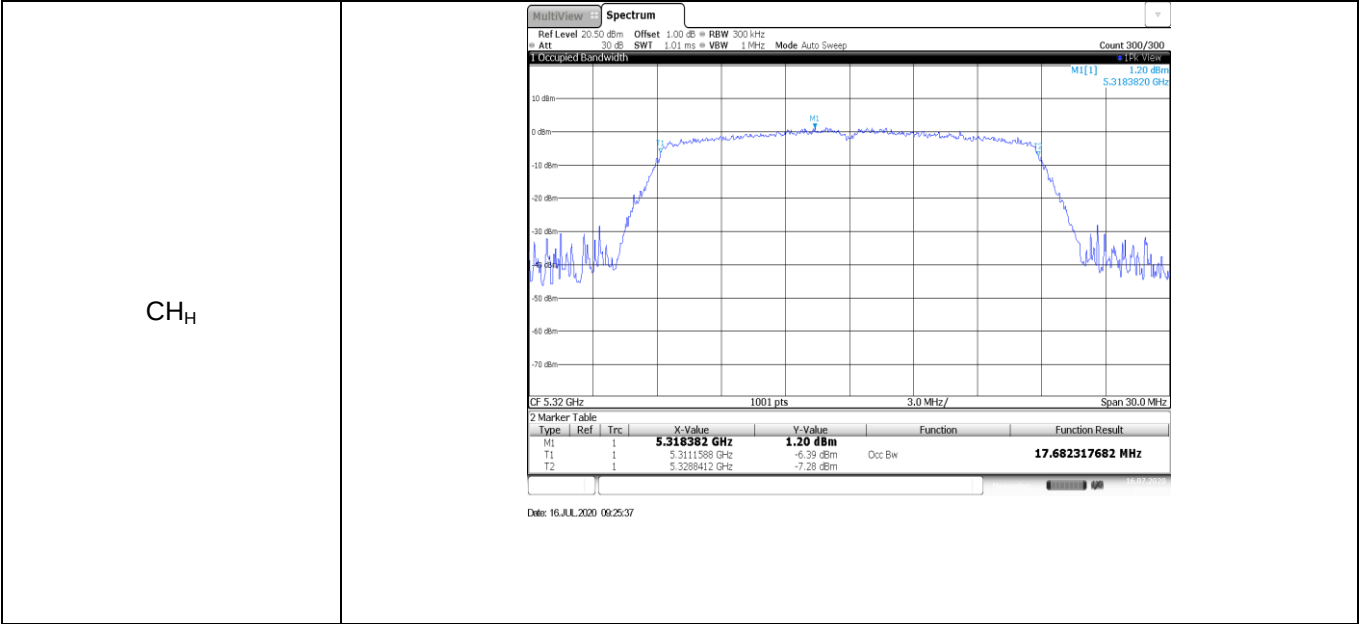


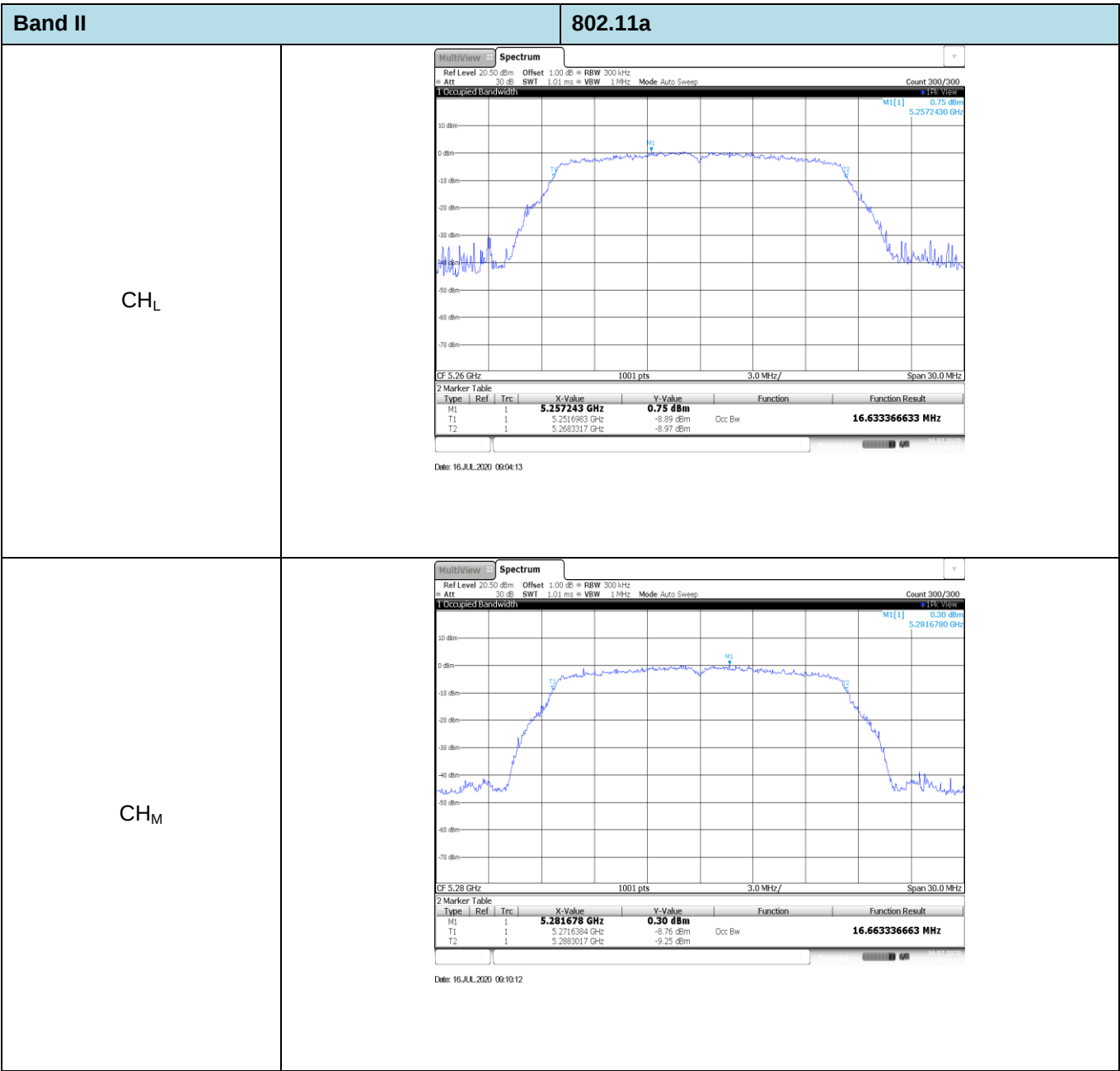


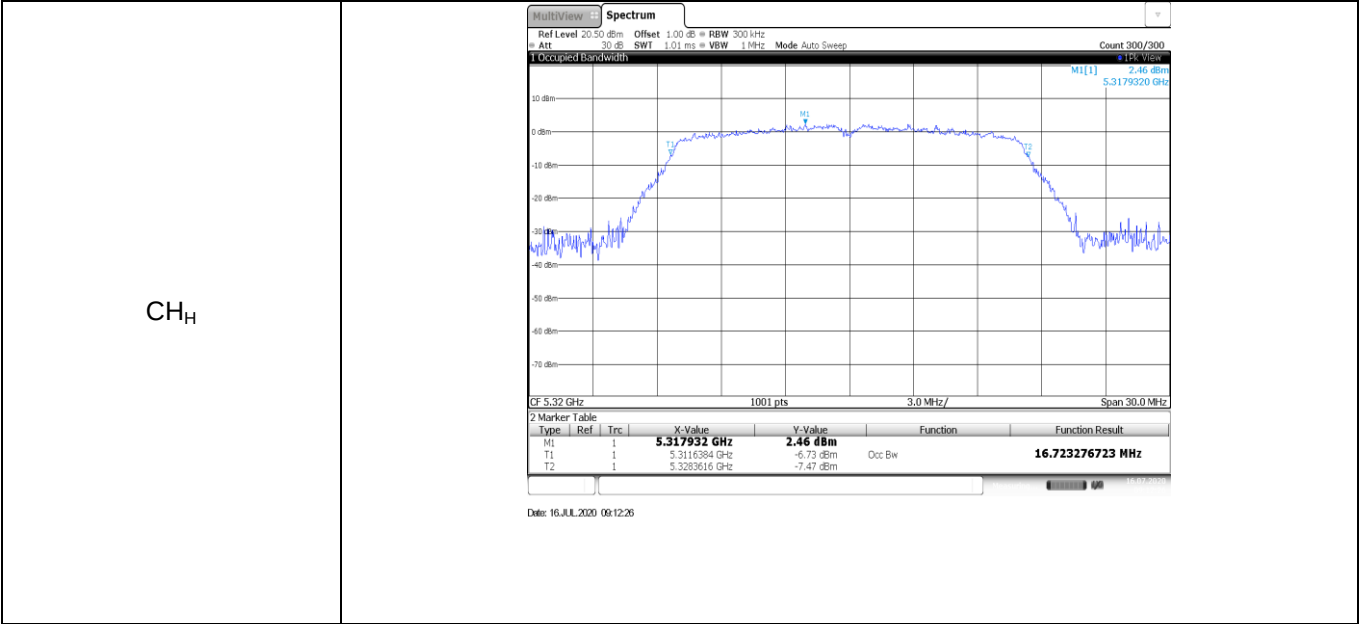


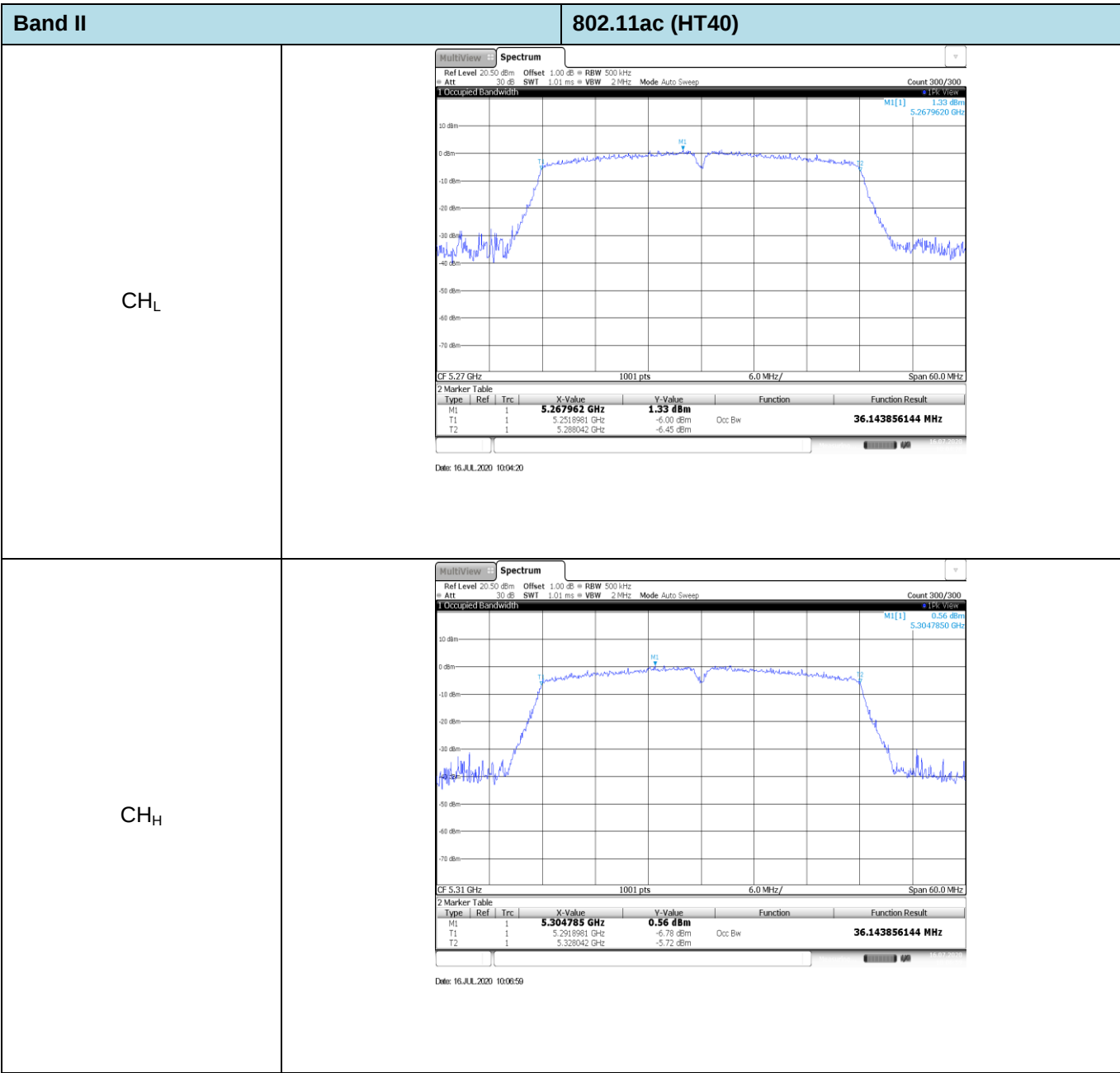


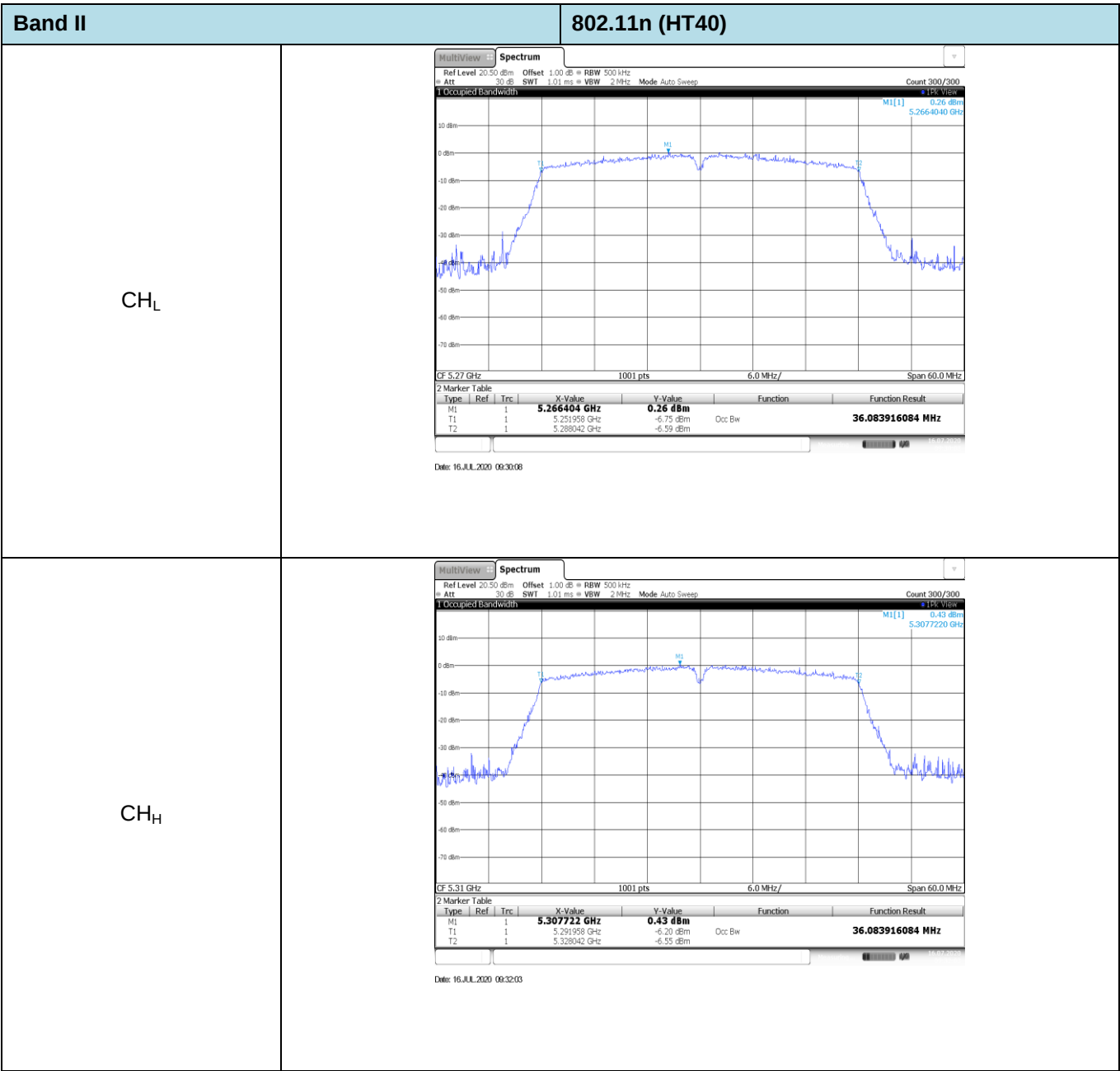


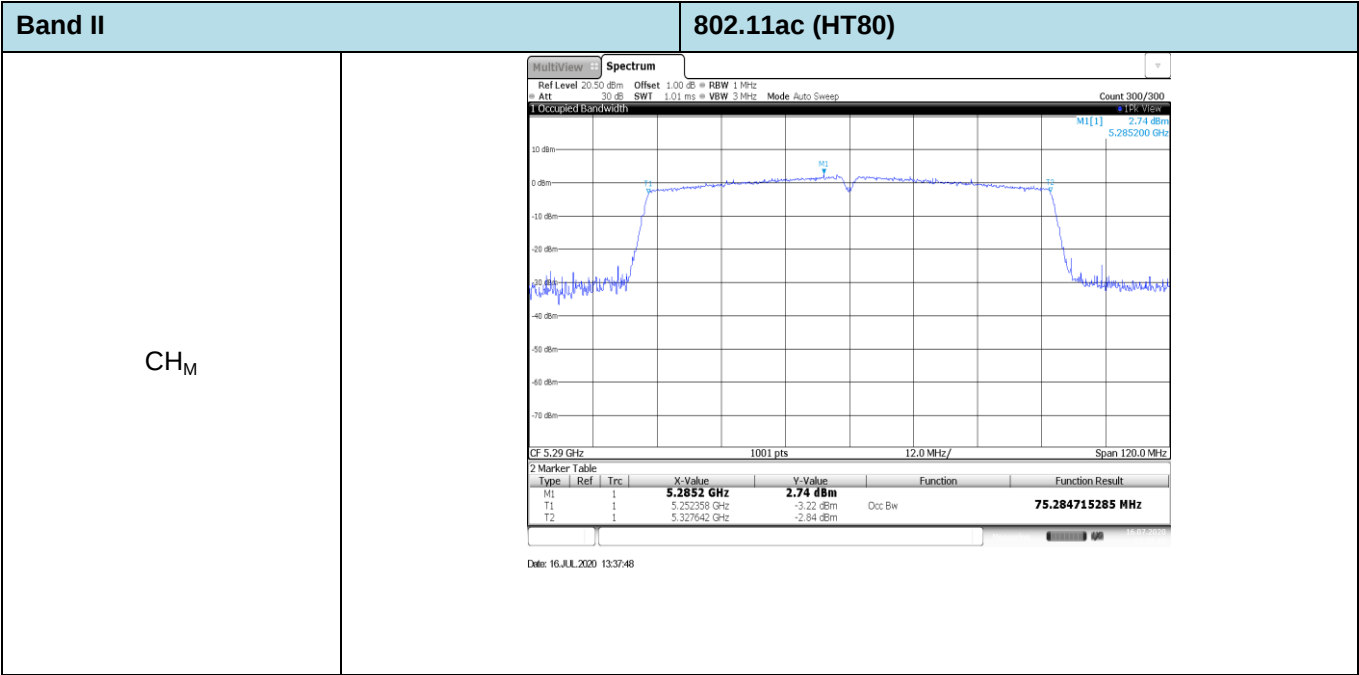




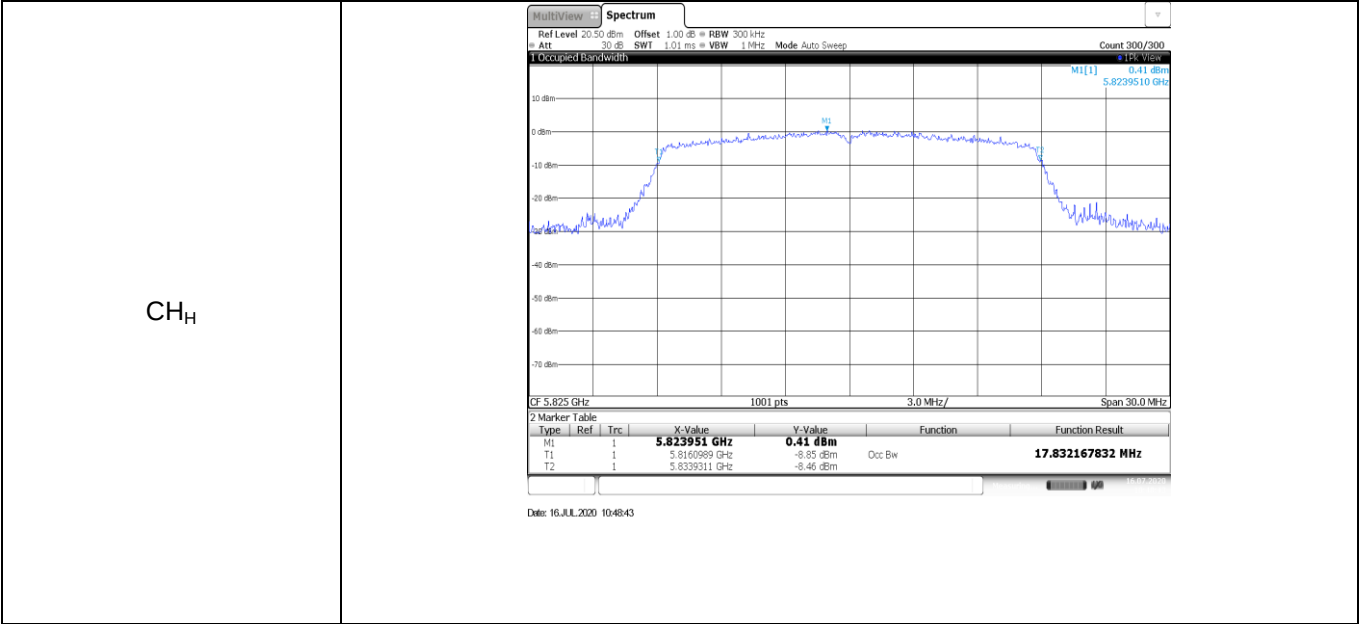


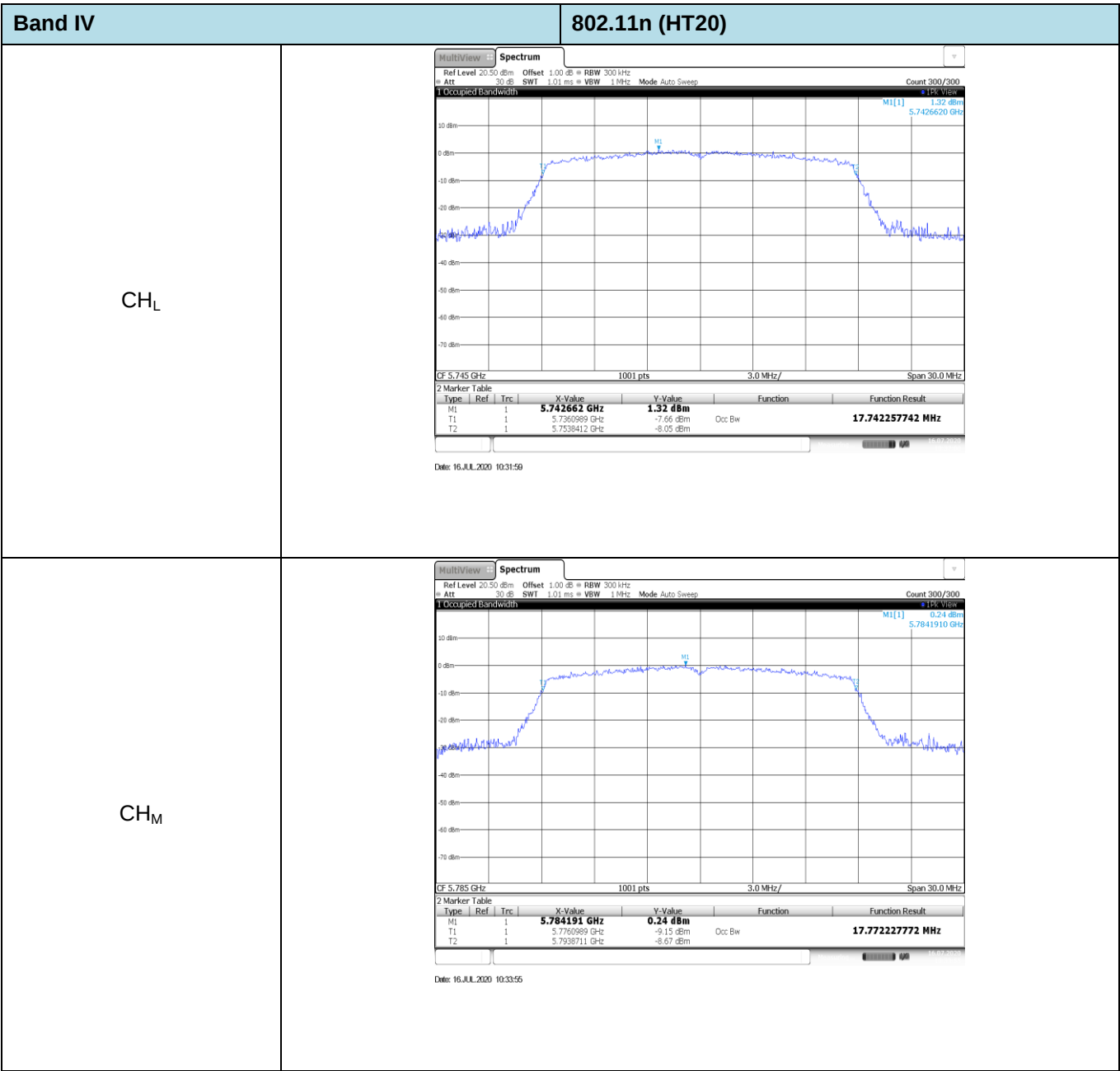


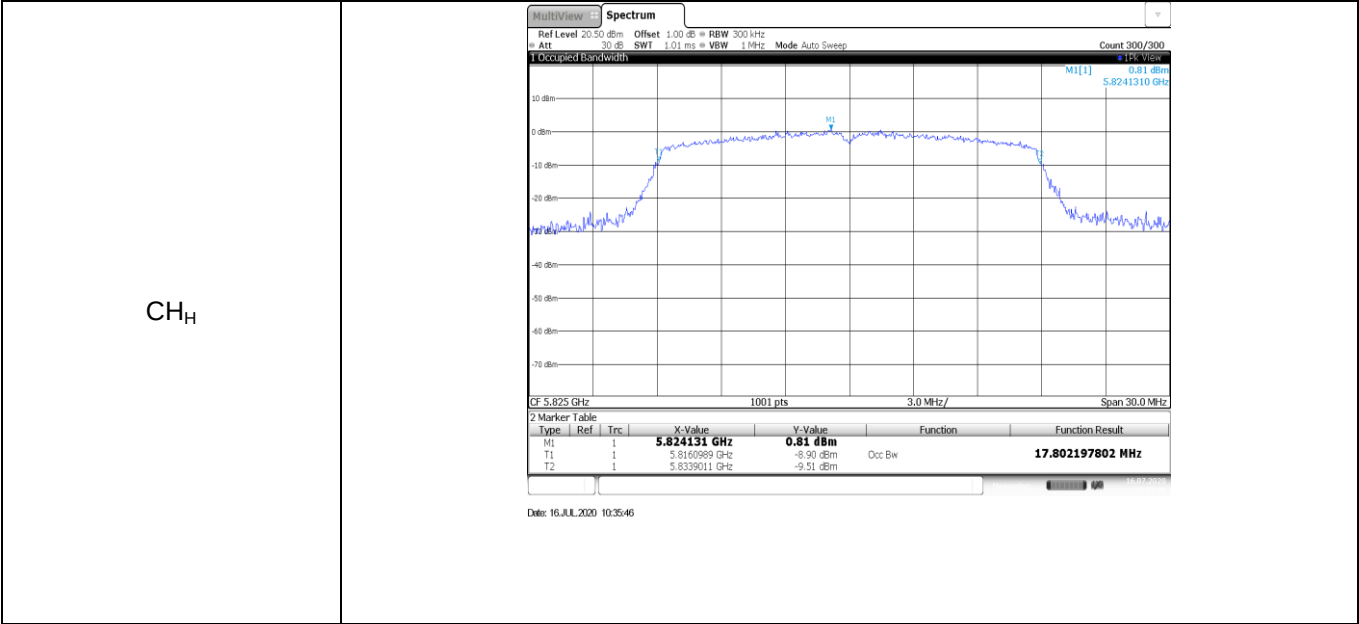


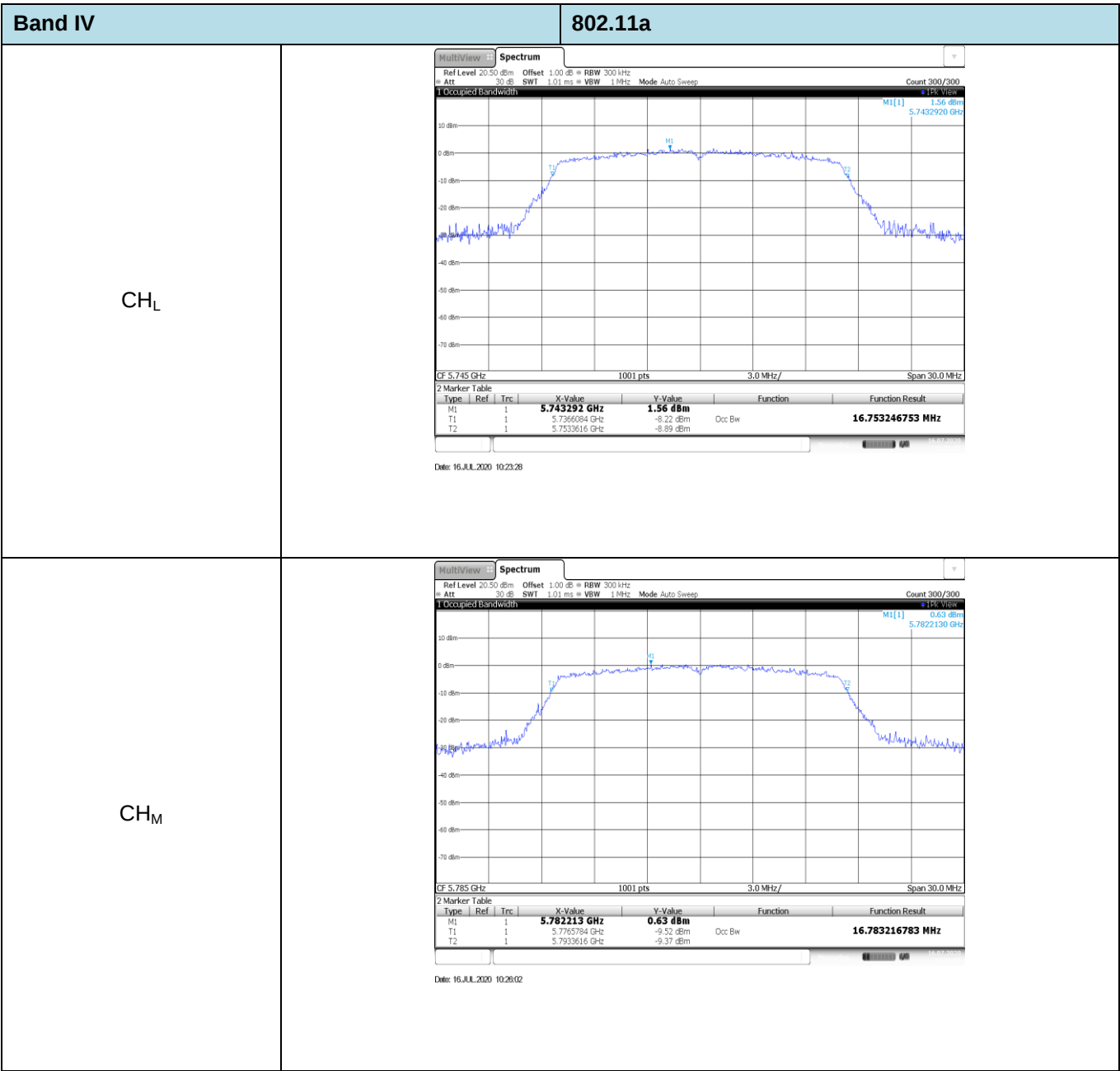


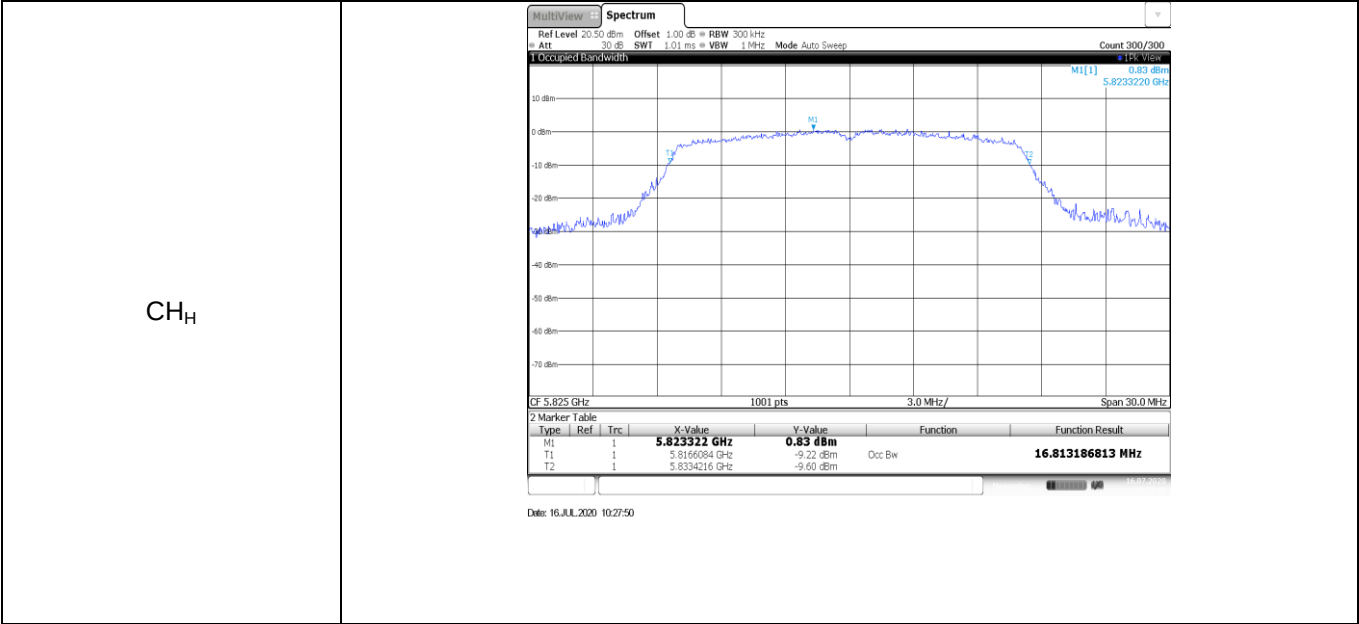


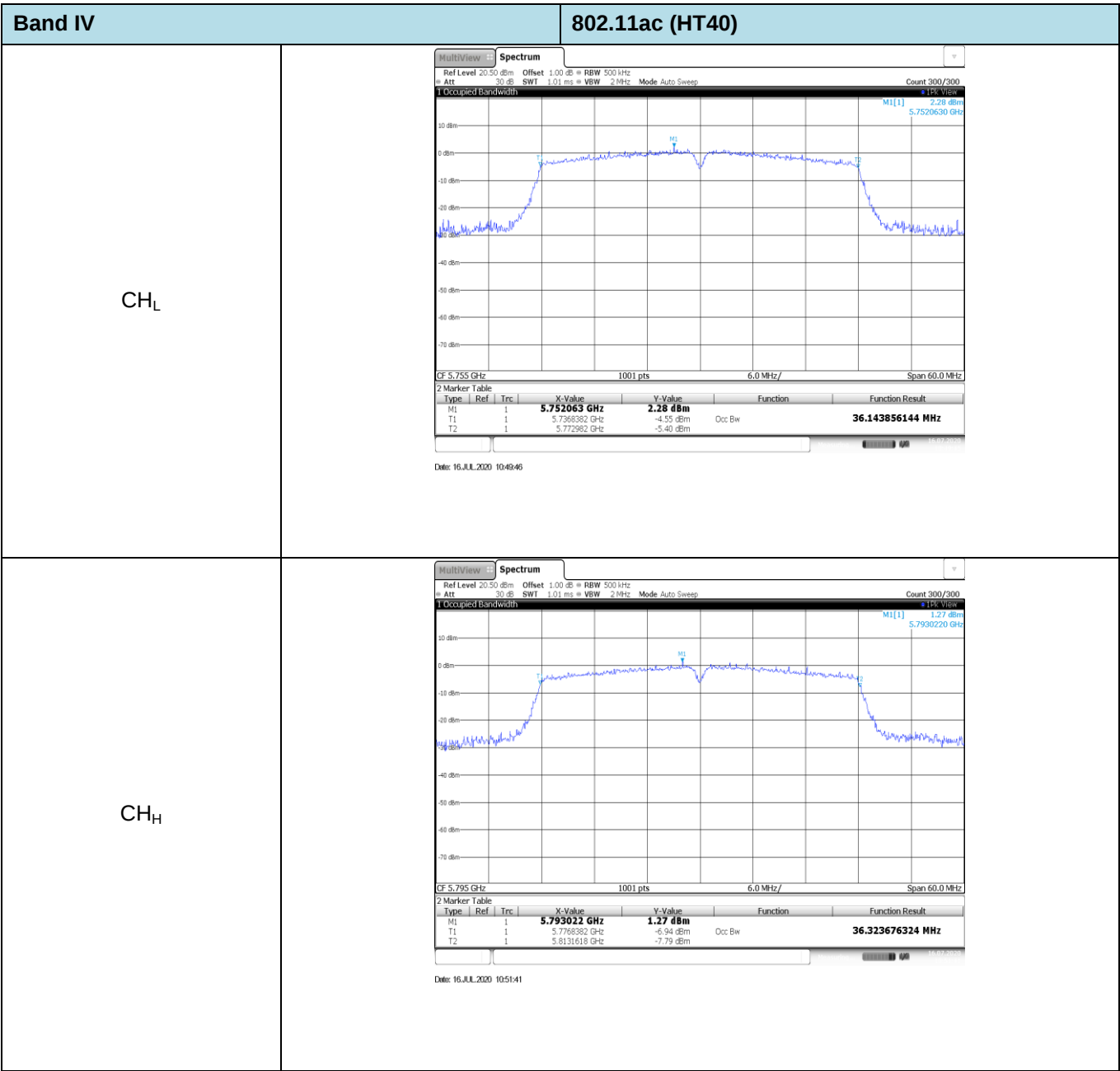


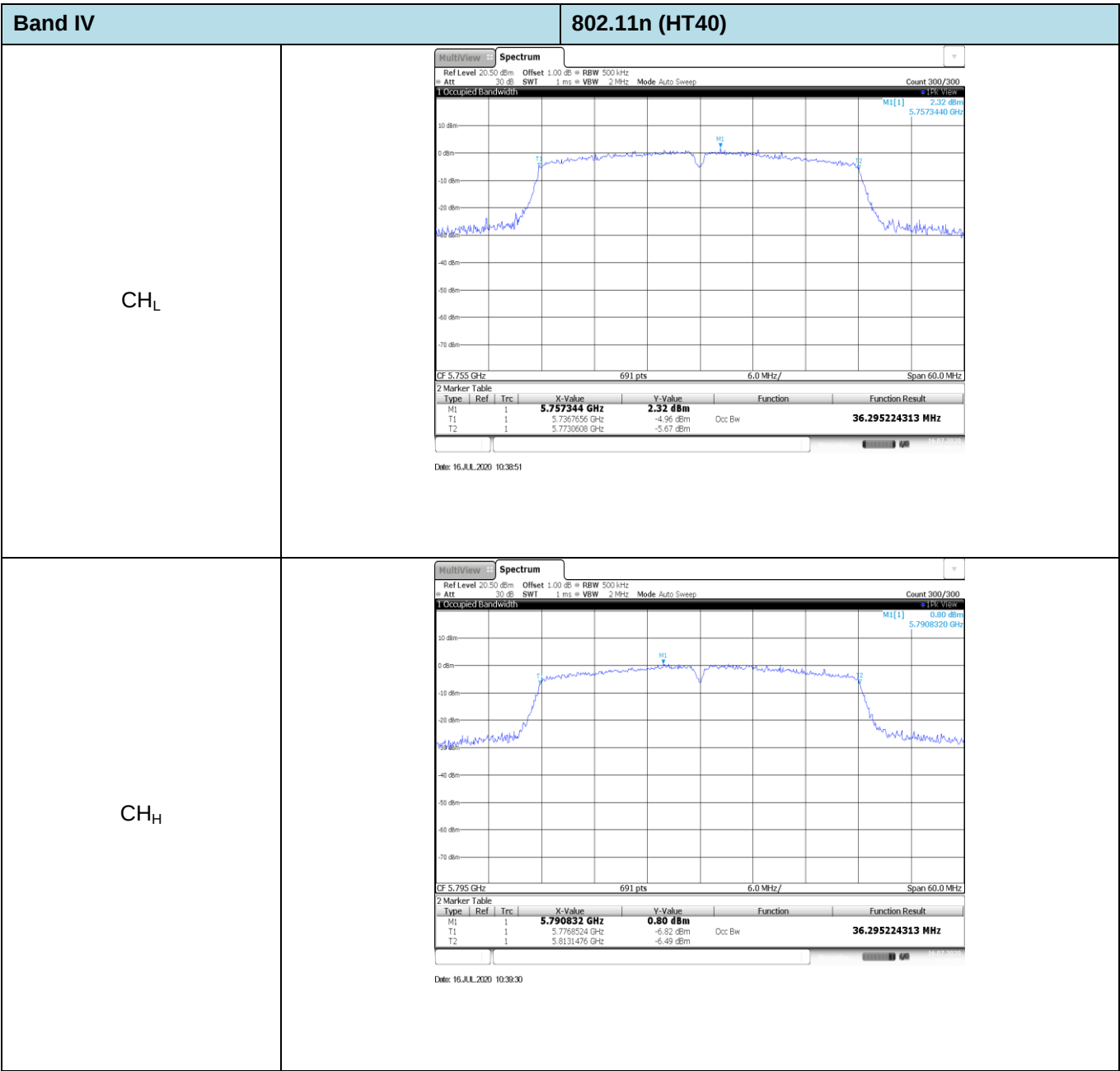


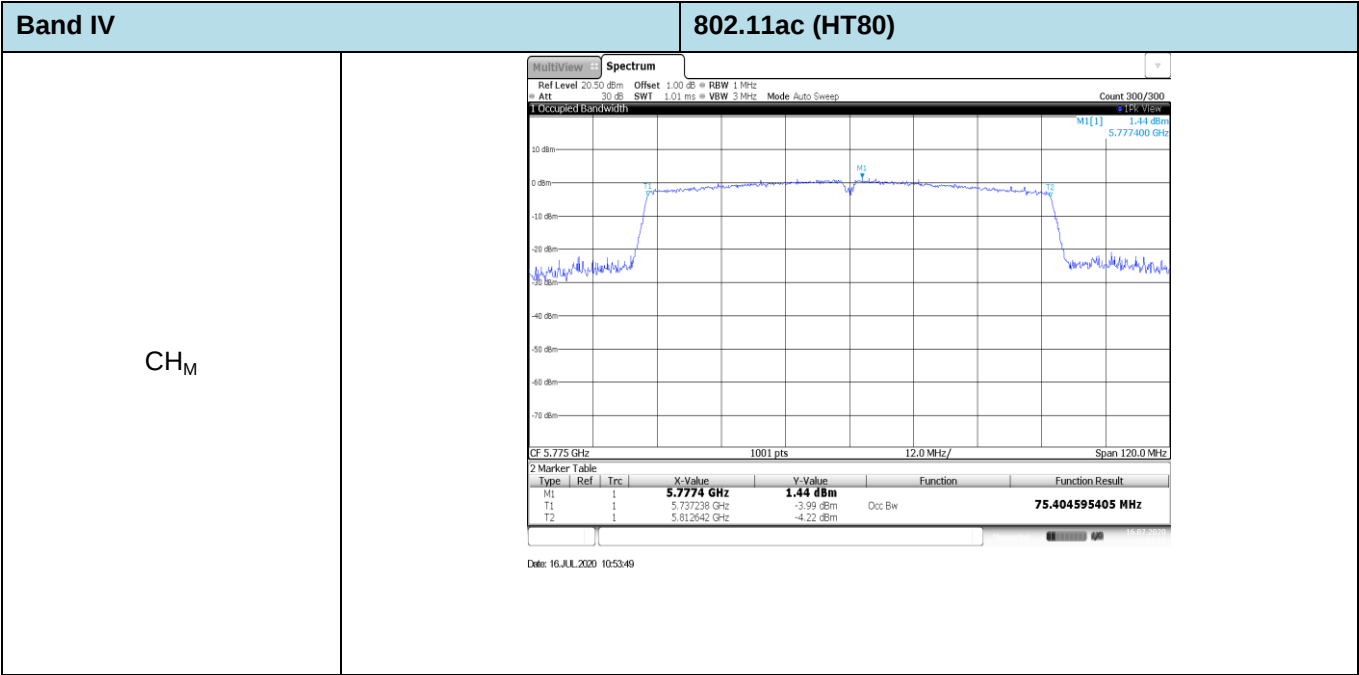












Appendix E: 6dB Bandwidth

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

