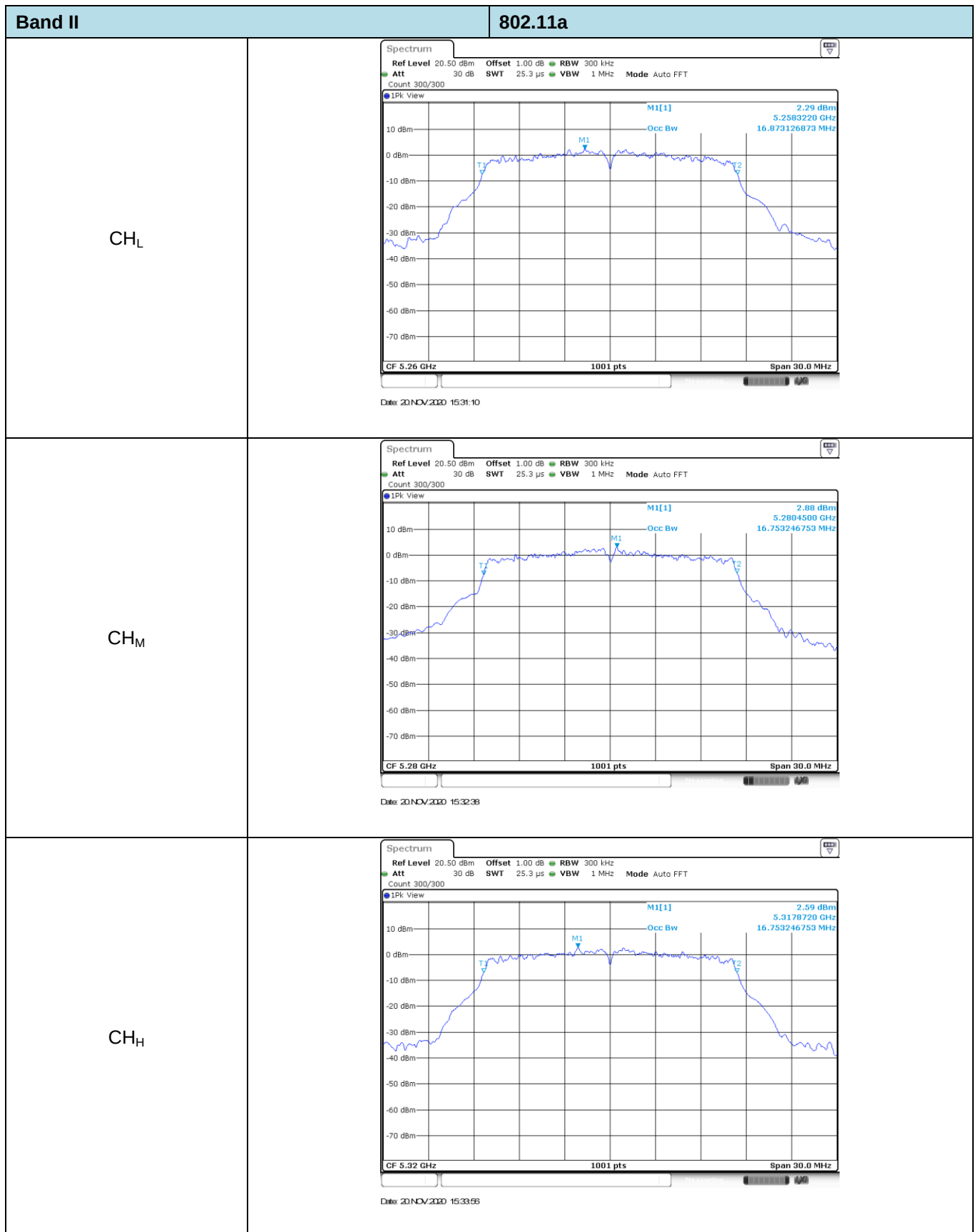
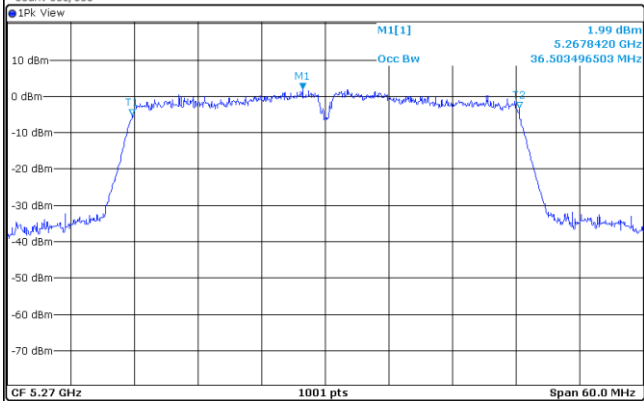
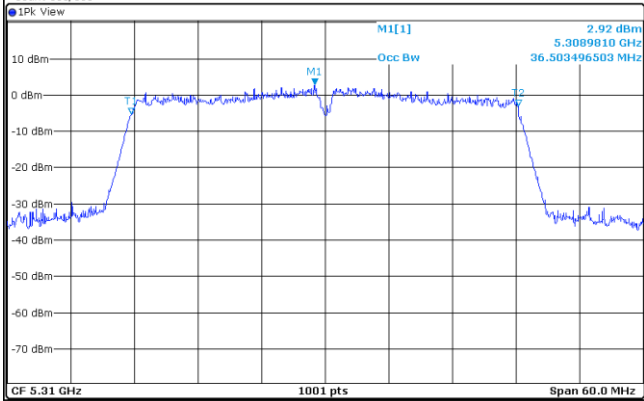
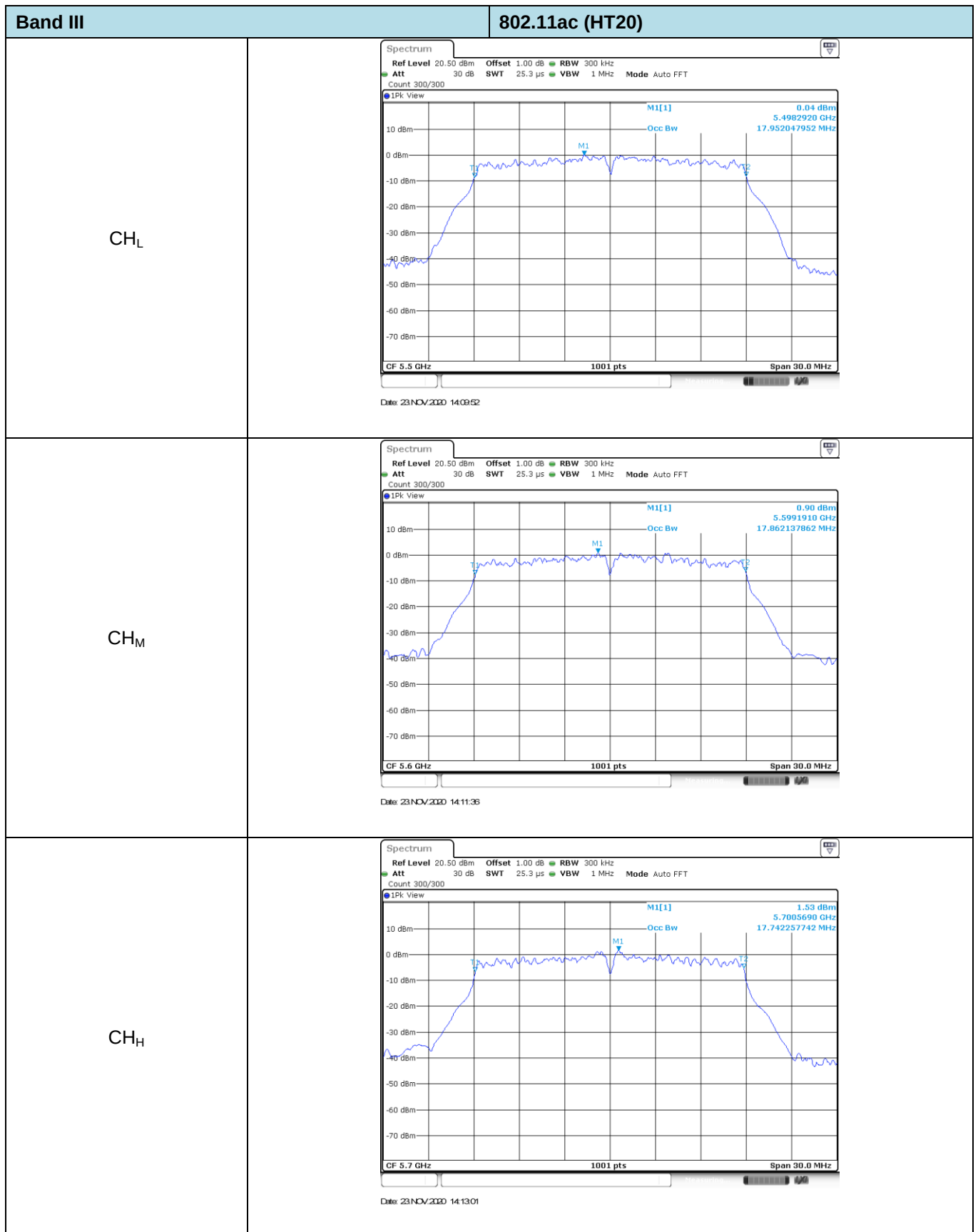




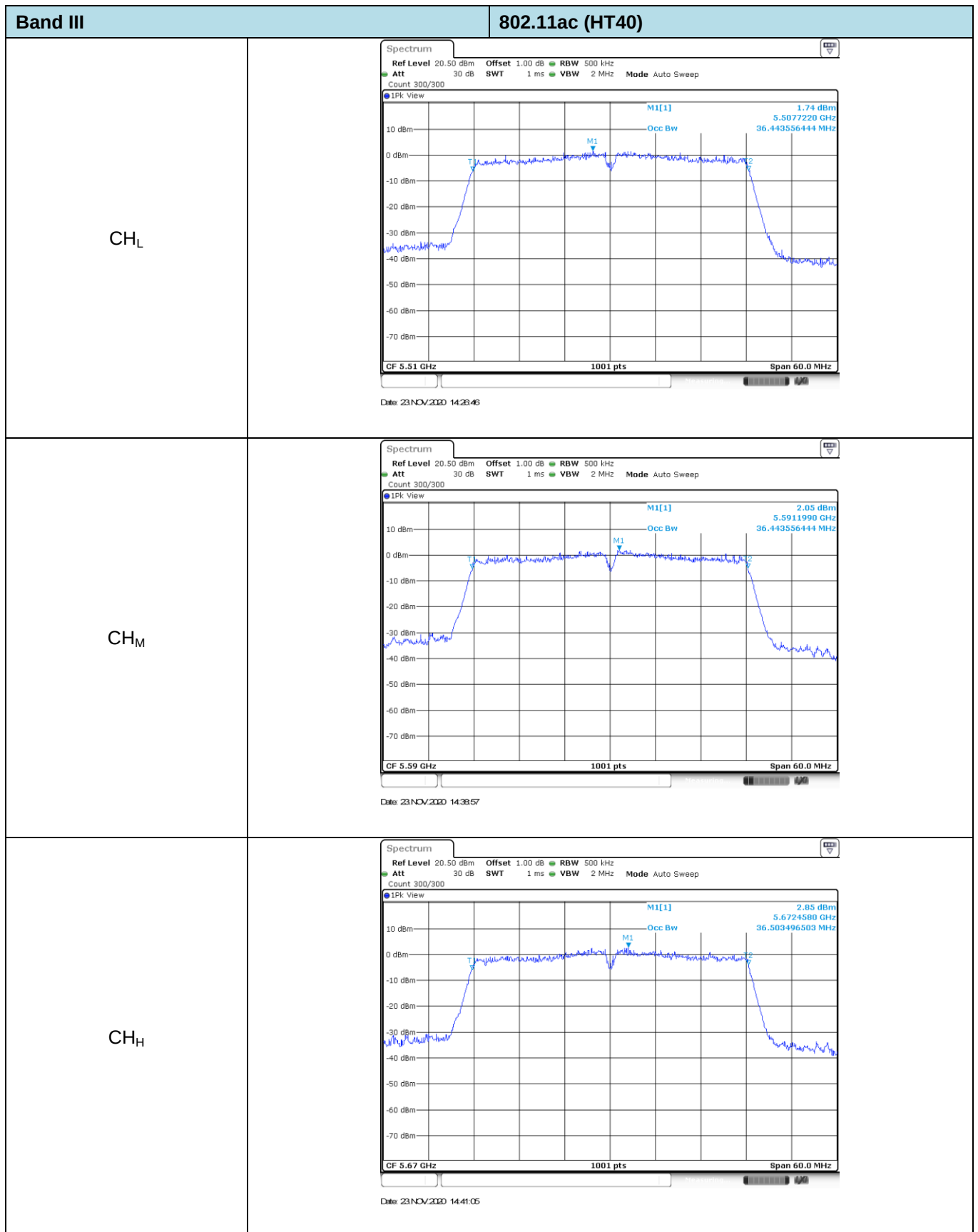
Band II		802.11ac (HT40)
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep Count 300/300 1Pk View  CF 5.27 GHz 1001 pts Span 60.0 MHz Date: 20 NOV 2020 16:11:23	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB SWT 1 ms RBW 500 kHz VBW 2 MHz Mode Auto Sweep Count 300/300 1Pk View  CF 5.31 GHz 1001 pts Span 60.0 MHz Date: 20 NOV 2020 16:12:57	

Band II		802.11n (HT40)
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 1Pk View MI[1] Occ Bw M1 1.65 dBm 5.2735360 GHz 36.263736264 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.27 GHz 1001 pts Span 60.0 MHz Date: 20 NOV 2020 15:48:05	
CH _H	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 1Pk View MI[1] Occ Bw M1 2.68 dBm 5.3141960 GHz 36.263736264 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.31 GHz 1001 pts Span 60.0 MHz Date: 20 NOV 2020 15:48:37	
Band II		802.11ac (HT80)
CH _M	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 1Pk View MI[1] Occ Bw M1 T2 2.58 dBm 5.288920 GHz 75.524475524 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.29 GHz 1001 pts Span 120.0 MHz Date: 20 NOV 2020 16:18:44	

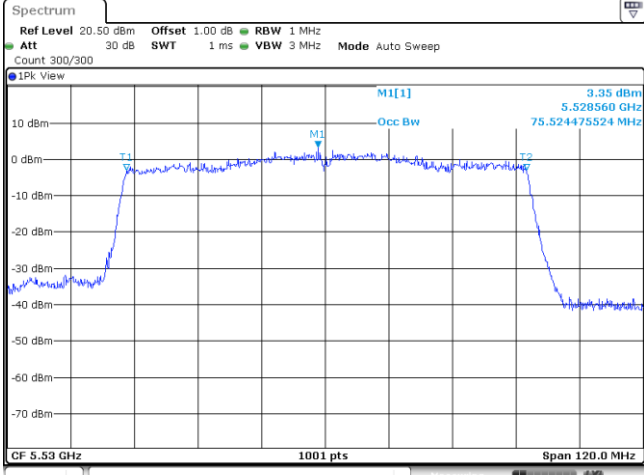
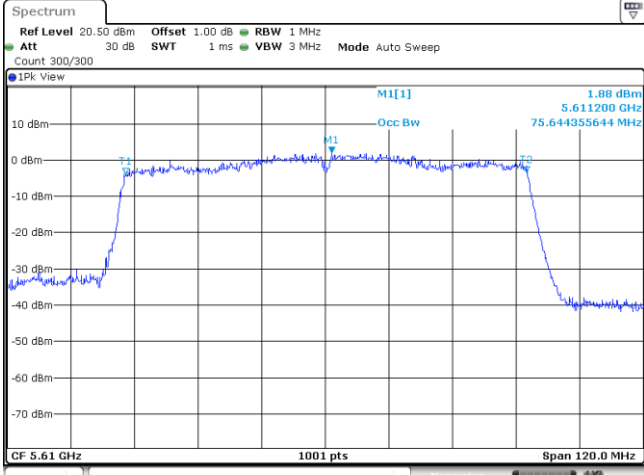
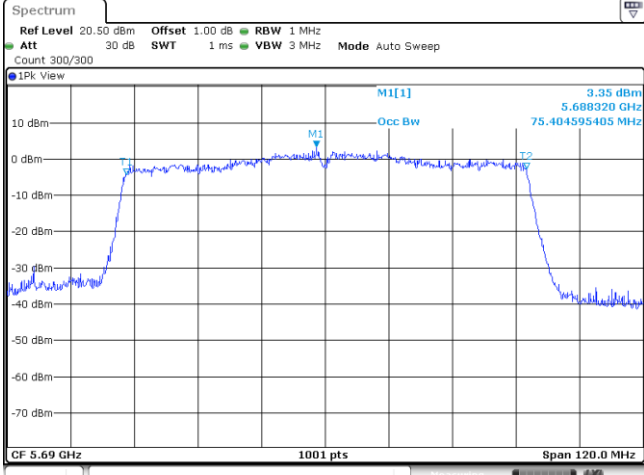


Band III		802.11n (HT20)	
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 0.80 dBm 5.5014390 GHz 17.802197802 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.5 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:40:48		
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 1.55 dBm 5.5988310 GHz 17.802197802 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.6 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:42:34		
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 1.51 dBm 5.7003600 GHz 17.772227772 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.7 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:44:01		

Band III		802.11a
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 M2 1.92 dBm 5.5017380 GHz 16.573426573 MHz CF 5.5 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:31:25	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 M2 3.02 dBm 5.6017380 GHz 16.573426573 MHz CF 5.6 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:34:13	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View MI[1] Occ Bw M1 M2 2.54 dBm 5.7017980 GHz 16.483516484 MHz CF 5.7 GHz 1001 pts Span 30.0 MHz Date: 23 NOV 2020 13:35:48	

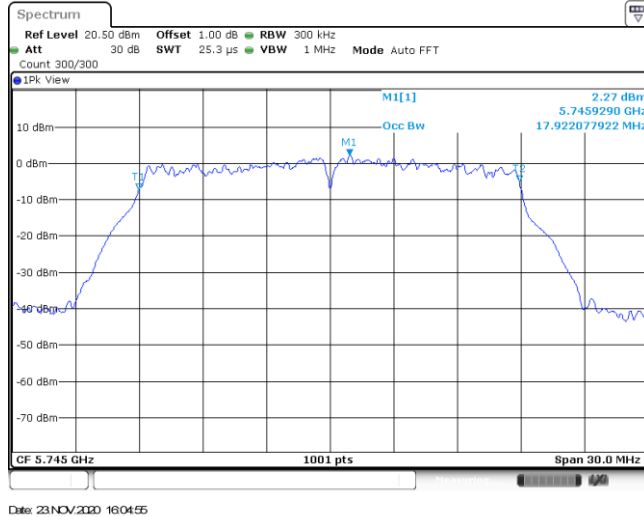
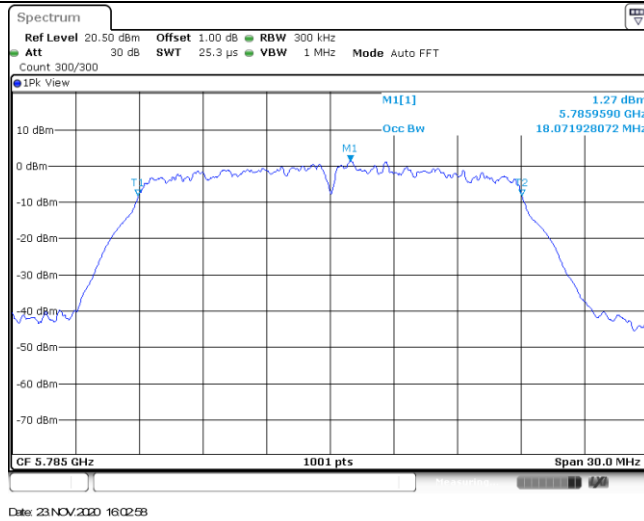
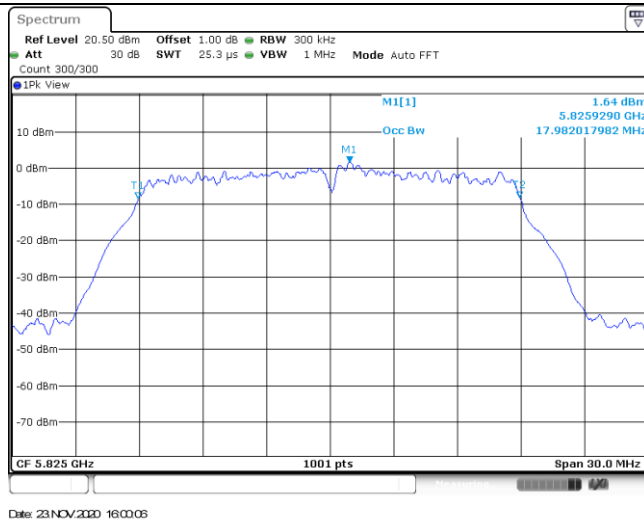


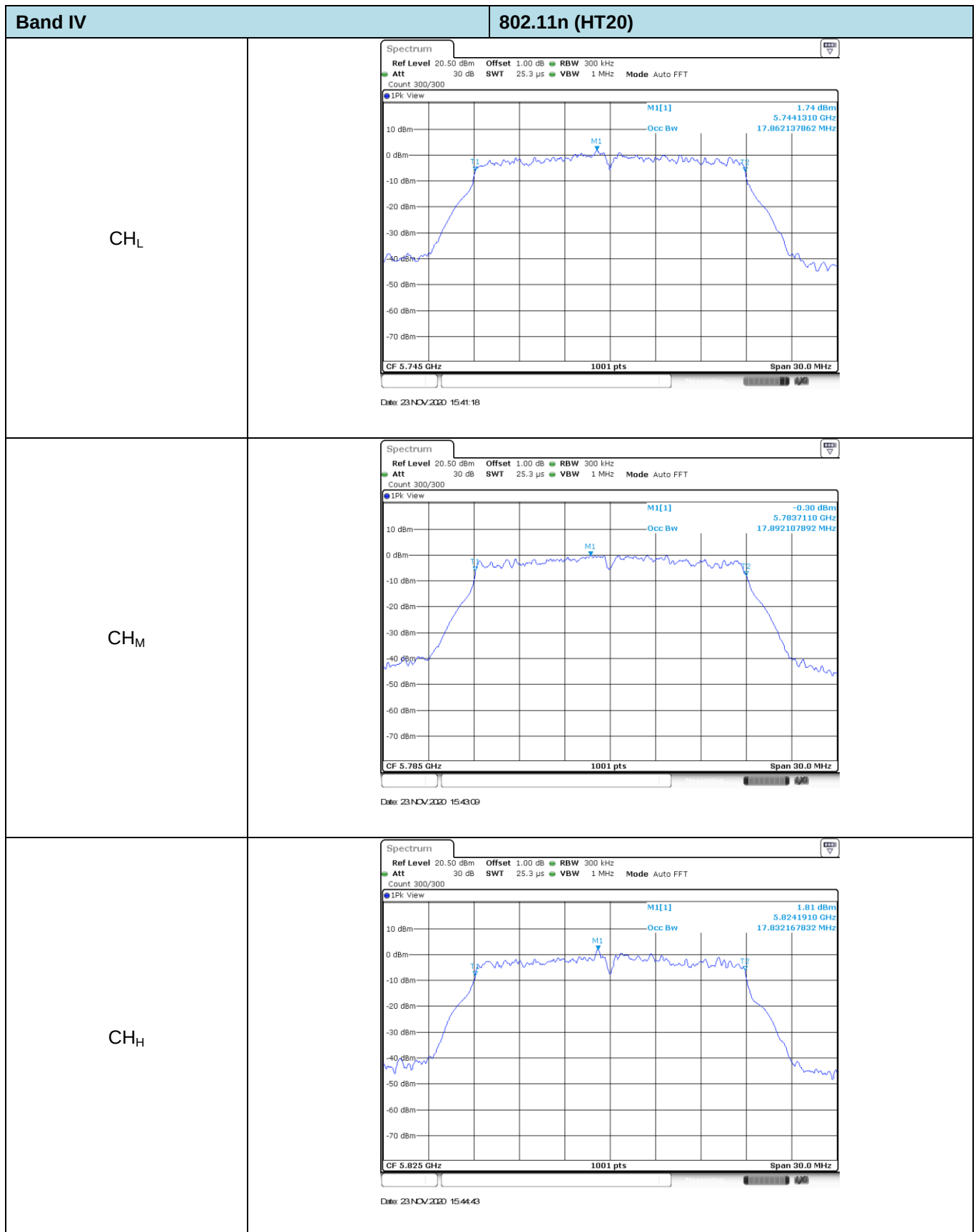
Band III		802.11n (HT40)
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] 2.13 dBm 5.5135360 GHz 36.203796204 MHz M1 Occ Bw 2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.51 GHz 1001 pts Span 60.0 MHz Date: 23 NOV 2020 13:47:48	
CH _M	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] 2.55 dBm 5.5941360 GHz 36.323676324 MHz M1 Occ Bw 2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.59 GHz 1001 pts Span 60.0 MHz Date: 23 NOV 2020 14:00:11	
CH _H	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] 3.10 dBm 5.6725170 GHz 36.263736264 MHz M1 Occ Bw 2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.67 GHz 1001 pts Span 60.0 MHz Date: 23 NOV 2020 14:08:23	

Band III	802.11ac (HT80)
CH _L	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 IPk View M1[1] 3.35 dBm 5.528560 GHz 75.524475524 MHz CF 5.53 GHz 1001 pts Span 120.0 MHz Date: 23 NOV 2020 14:46:33
CH _M	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 IPk View M1[1] 1.88 dBm 5.611200 GHz 75.644355644 MHz CF 5.61 GHz 1001 pts Span 120.0 MHz Date: 23 NOV 2020 14:48:22
CH _H	 Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 IPk View M1[1] 3.35 dBm 5.688320 GHz 75.404595405 MHz CF 5.69 GHz 1001 pts Span 120.0 MHz Date: 23 NOV 2020 14:50:13

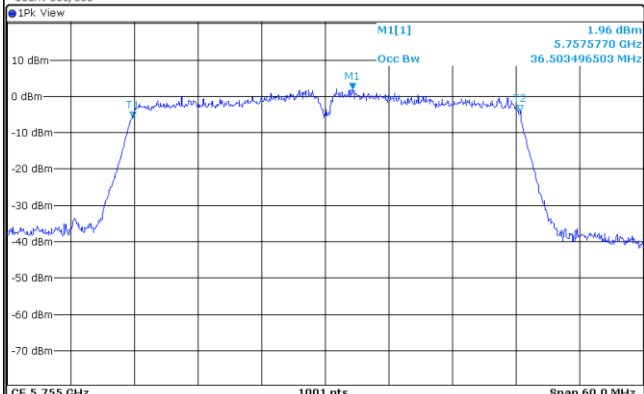
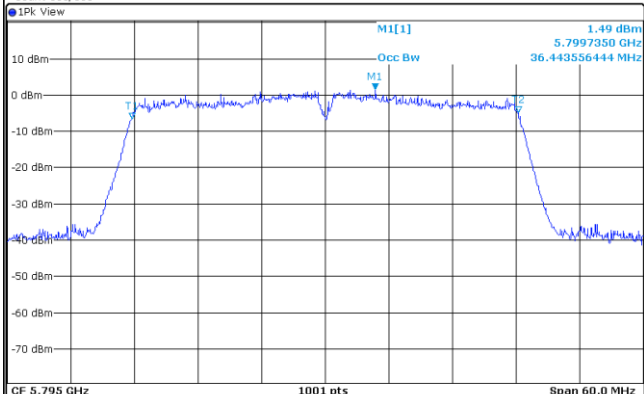
Band IV

802.11ac (HT20)

CH_LCH_MCH_H



Band IV		802.11a
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 2.45 dBm 5.7467680 GHz 16.543456543 MHz Occ Bw M1 2 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: 23 NOV 2020 15:33:47	
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 1.81 dBm 5.7867980 GHz 16.543456543 MHz Occ Bw M1 2 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: 23 NOV 2020 15:35:57	
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 300/300 Offset 1.00 dB SWT 25.3 μs RBW 300 kHz VBW 1 MHz Mode Auto FFT 1Pk View M1[1] 1.44 dBm 5.8267980 GHz 16.513486513 MHz Occ Bw M1 2 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: 23 NOV 2020 15:37:35	

Band IV		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 300/300 IPk View  MI[1] 1.96 dBm Occ Bw 5.75770 GHz M1 36.503496503 MHz CF 5.755 GHz 1001 pts Span 60.0 MHz Date: 23 NOV 2020 16:09:17	
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 300/300 IPk View  MI[1] 1.49 dBm Occ Bw 5.7997350 GHz M1 36.443556444 MHz CF 5.795 GHz 1001 pts Span 60.0 MHz Date: 23 NOV 2020 16:11:08	

Band IV		802.11n (HT40)
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] Occ Bw M1 2.76 dBm 5.7587340 GHz 36.295224313 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.755 GHz 691 pts Span 60.0 MHz Date: 23 NOV 2020 15:48:52	
CH _H	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] Occ Bw M1 2.01 dBm 5.7962160 GHz 36.295224313 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.795 GHz 691 pts Span 60.0 MHz Date: 23 NOV 2020 15:51:00	
Band IV		802.11ac (HT80)
CH _M	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWT 1 ms VBW 3 MHz Mode Auto Sweep Count 300/300 IPk View MI[1] Occ Bw M1 1.65 dBm 5.784110 GHz 75.404595405 MHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 5.775 GHz 1001 pts Span 120.0 MHz Date: 23 NOV 2020 16:15:48	

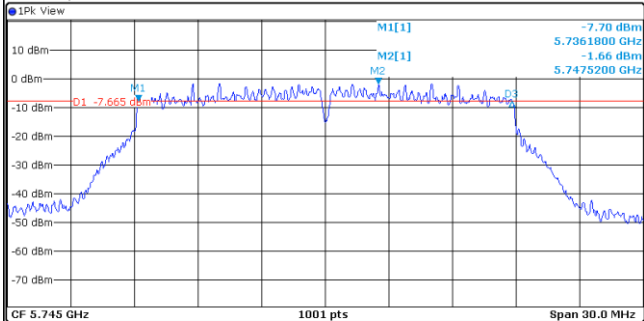
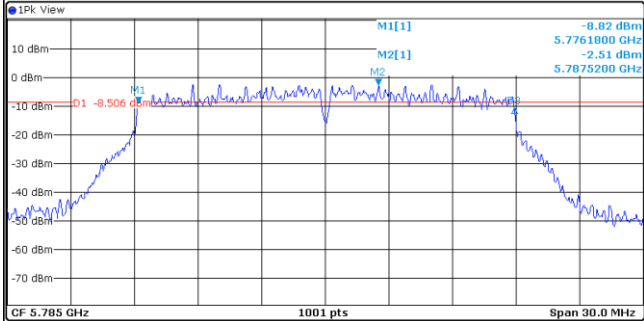
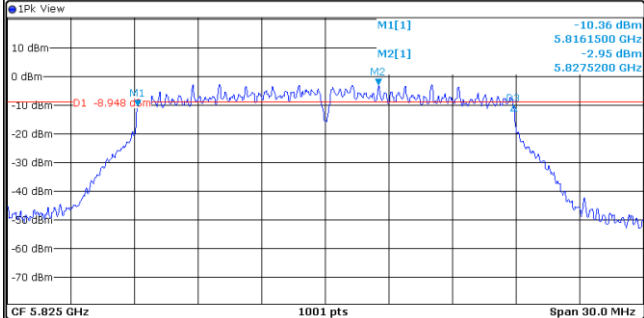
Appendix E: 6dB Bandwidth

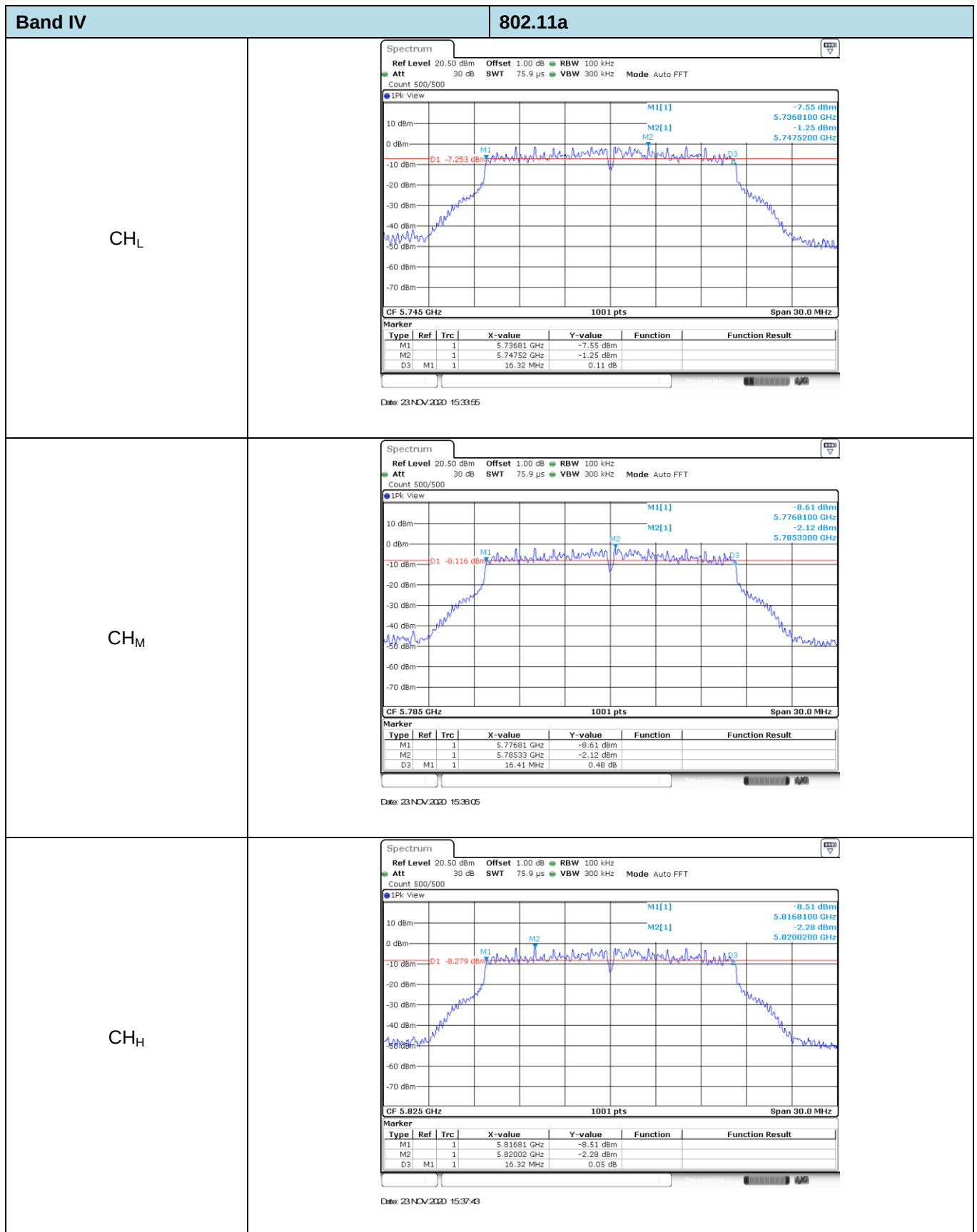
Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.70	Pass
			CH _M	17.70	
			CH _H	17.64	
		802.11n	CH _L	17.64	Pass
			CH _M	17.73	
			CH _H	17.73	
		802.11a	CH _L	16.32	Pass
			CH _M	16.41	
			CH _H	16.32	
	40	802.11ac	CH _L	36.12	Pass
			CH _H	35.52	
		802.11n	CH _L	36.52	Pass
			CH _H	36.26	
	80	802.11ac	CH _M	75.48	Pass

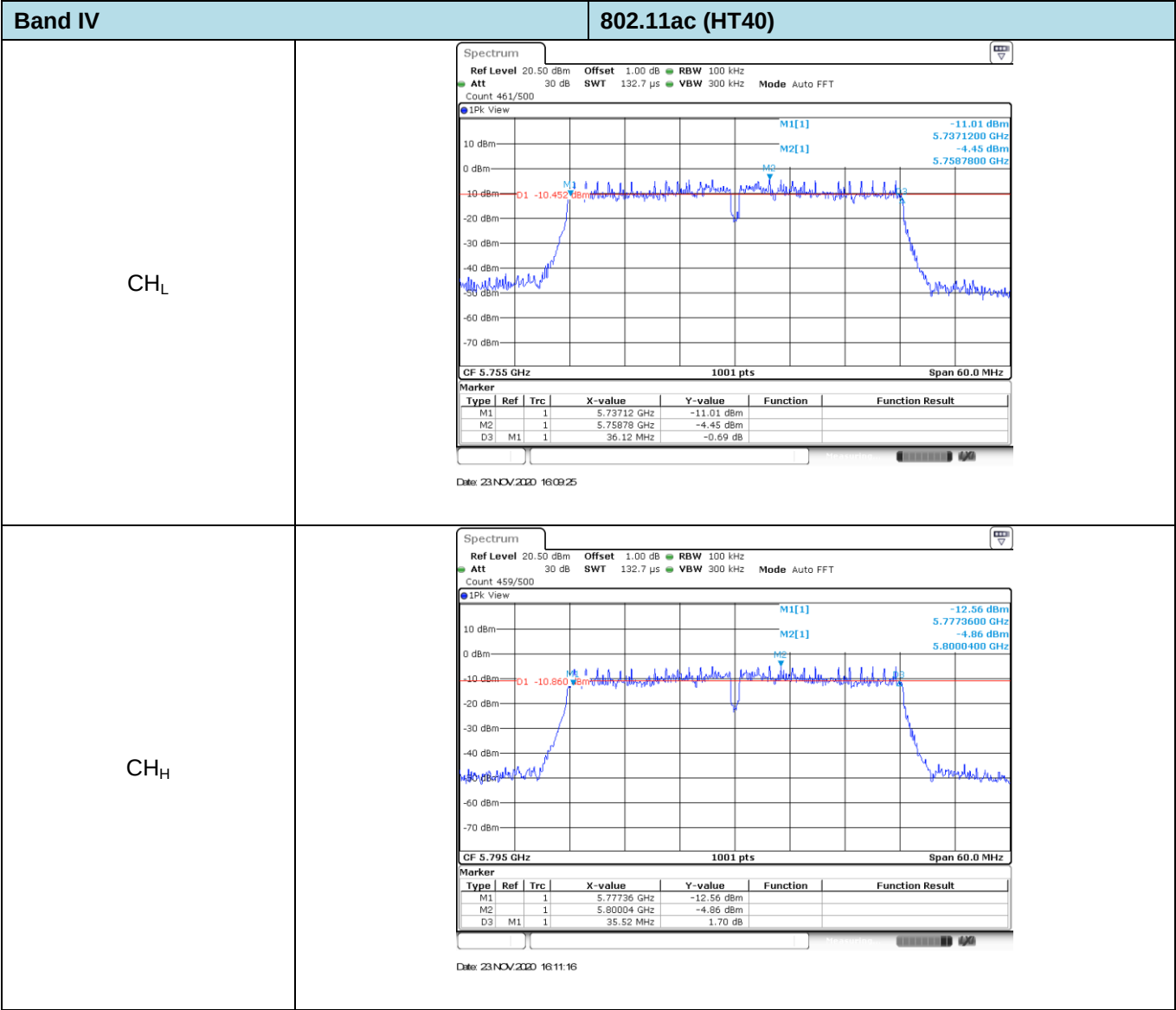
Band IV

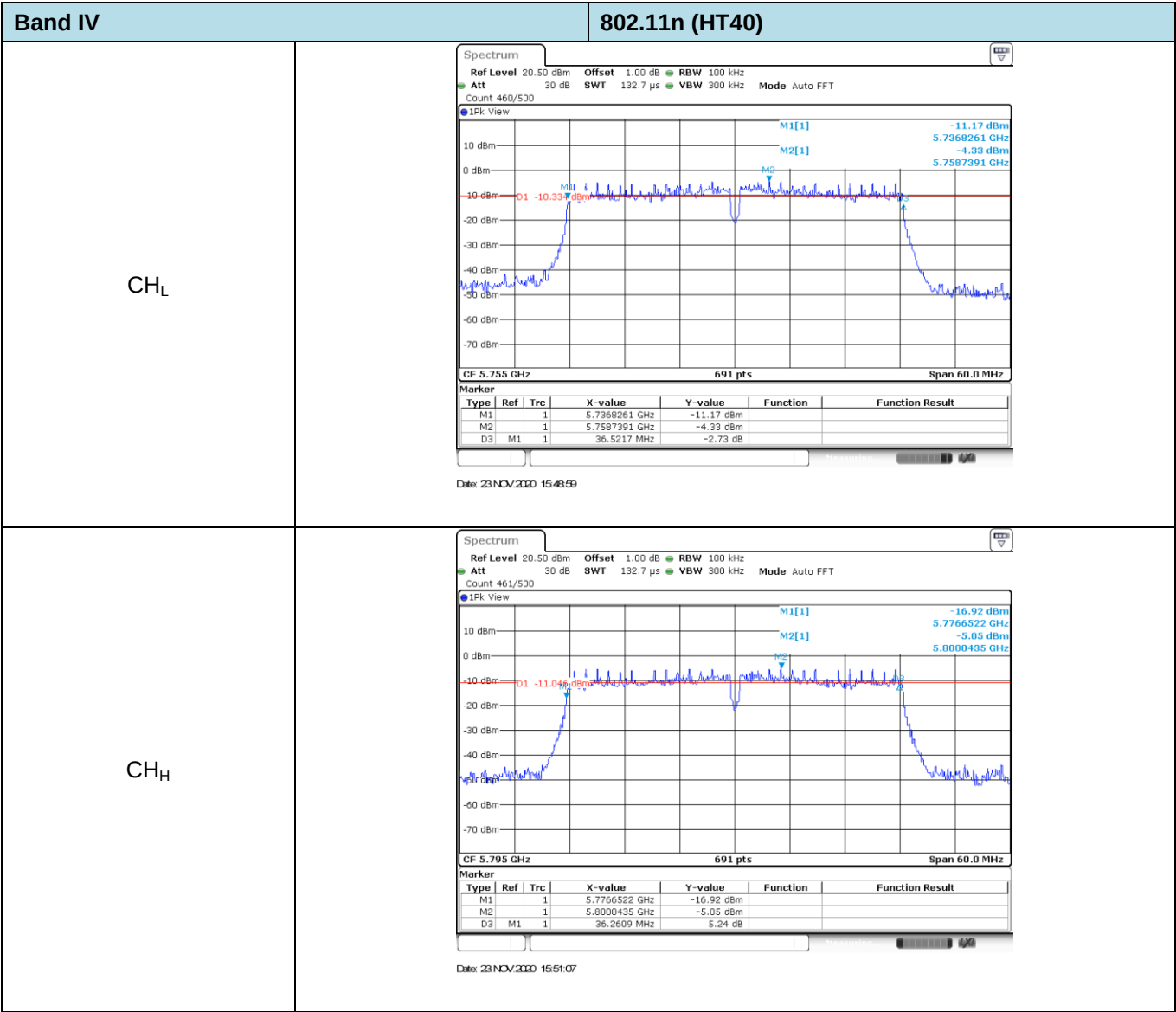
802.11ac (HT20)

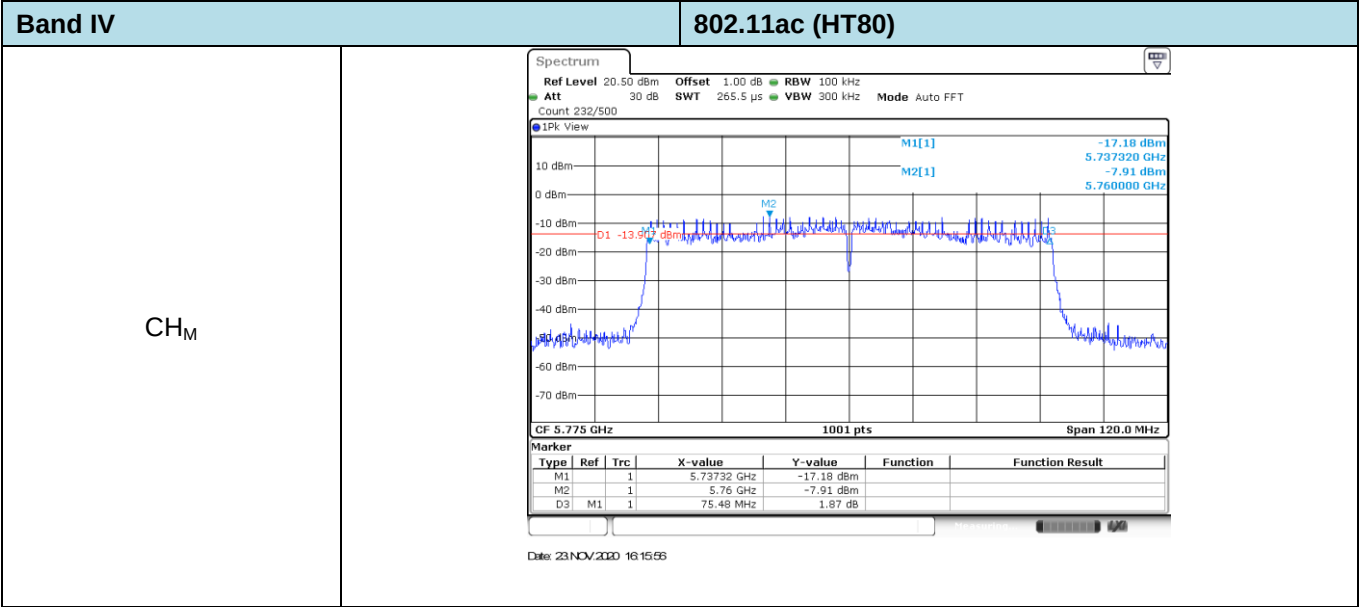
CH _L	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View
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Band IV		802.11n (HT20)																											
CH _L	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT IPk View  CF 5.745 GHz1001 ptsSpan 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>5.73618 GHz</td><td>-7.70 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.74752 GHz</td><td>-1.66 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>17.64 MHz</td><td>-0.12 dB</td><td></td><td></td></tr></table> Date: 23 NOV 2020 15:41:26	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.73618 GHz	-7.70 dBm			M2	1		5.74752 GHz	-1.66 dBm			D3	M1	1	17.64 MHz	-0.12 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.73618 GHz	-7.70 dBm																									
M2	1		5.74752 GHz	-1.66 dBm																									
D3	M1	1	17.64 MHz	-0.12 dB																									
CH _M	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT IPk View  CF 5.785 GHz1001 ptsSpan 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>5.77618 GHz</td><td>-8.82 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.78752 GHz</td><td>-2.51 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>17.73 MHz</td><td>-1.84 dB</td><td></td><td></td></tr></table> Date: 23 NOV 2020 15:43:16	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.77618 GHz	-8.82 dBm			M2	1		5.78752 GHz	-2.51 dBm			D3	M1	1	17.73 MHz	-1.84 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.77618 GHz	-8.82 dBm																									
M2	1		5.78752 GHz	-2.51 dBm																									
D3	M1	1	17.73 MHz	-1.84 dB																									
CH _H	Spectrum Ref Level 20.50 dBm Att 30 dB Count 500/500 Offset 1.00 dB SWT 75.9 μs RBW 100 kHz VBW 300 kHz Mode Auto FFT IPk View  CF 5.825 GHz1001 ptsSpan 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>5.81615 GHz</td><td>-10.36 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>5.82752 GHz</td><td>-2.95 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>17.73 MHz</td><td>0.39 dB</td><td></td><td></td></tr></table> Date: 23 NOV 2020 15:44:51	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		5.81615 GHz	-10.36 dBm			M2	1		5.82752 GHz	-2.95 dBm			D3	M1	1	17.73 MHz	0.39 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																							
M1	1		5.81615 GHz	-10.36 dBm																									
M2	1		5.82752 GHz	-2.95 dBm																									
D3	M1	1	17.73 MHz	0.39 dB																									

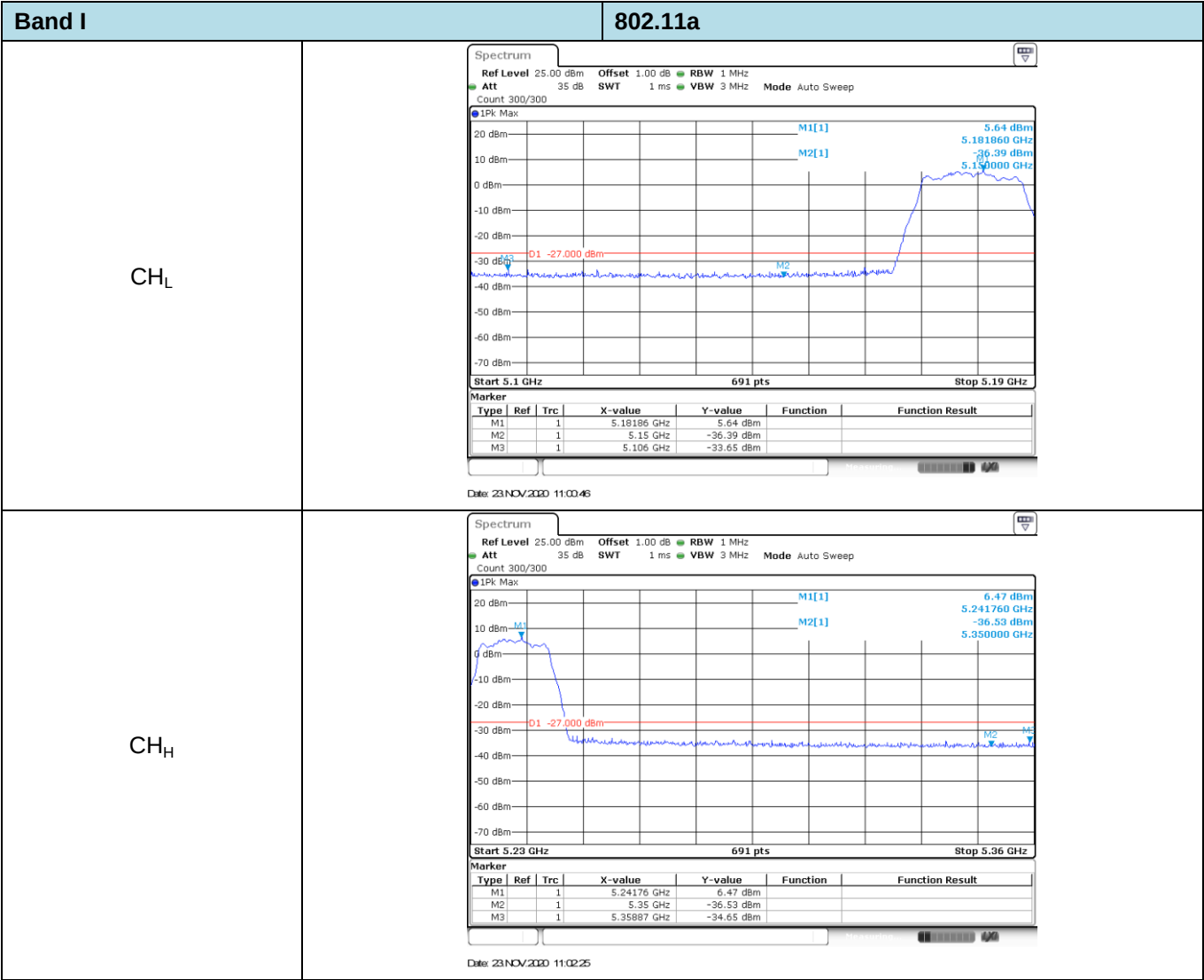


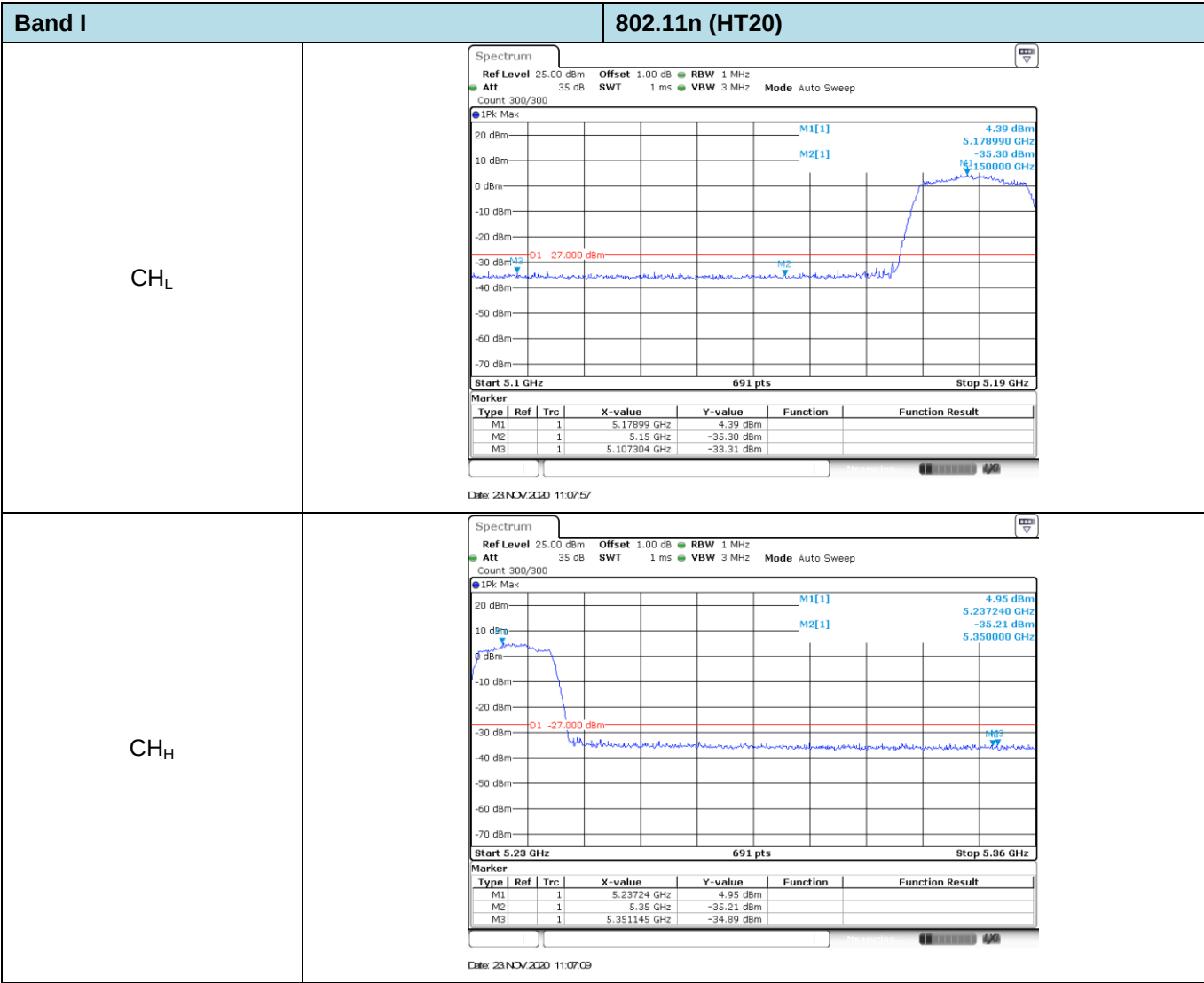


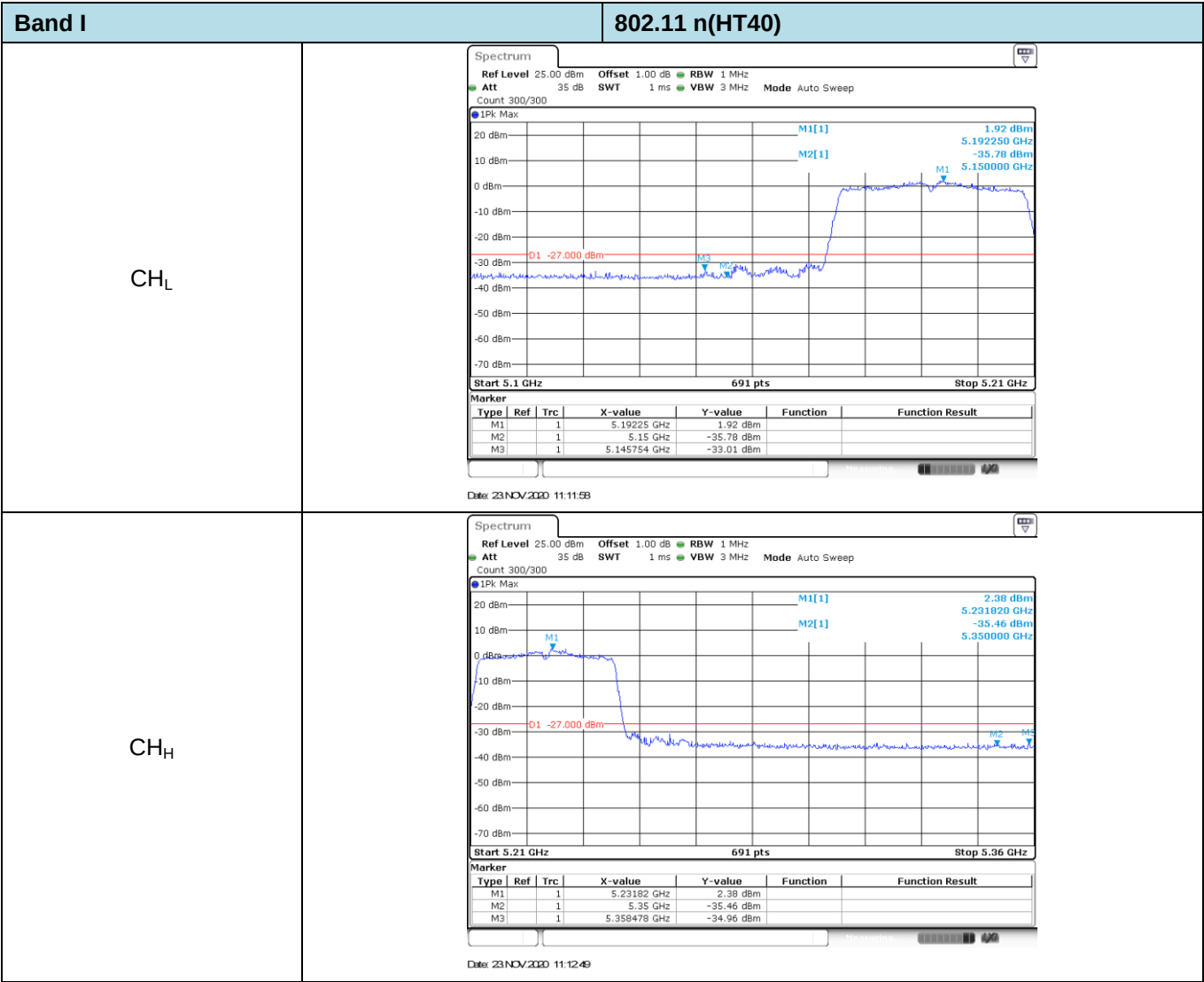


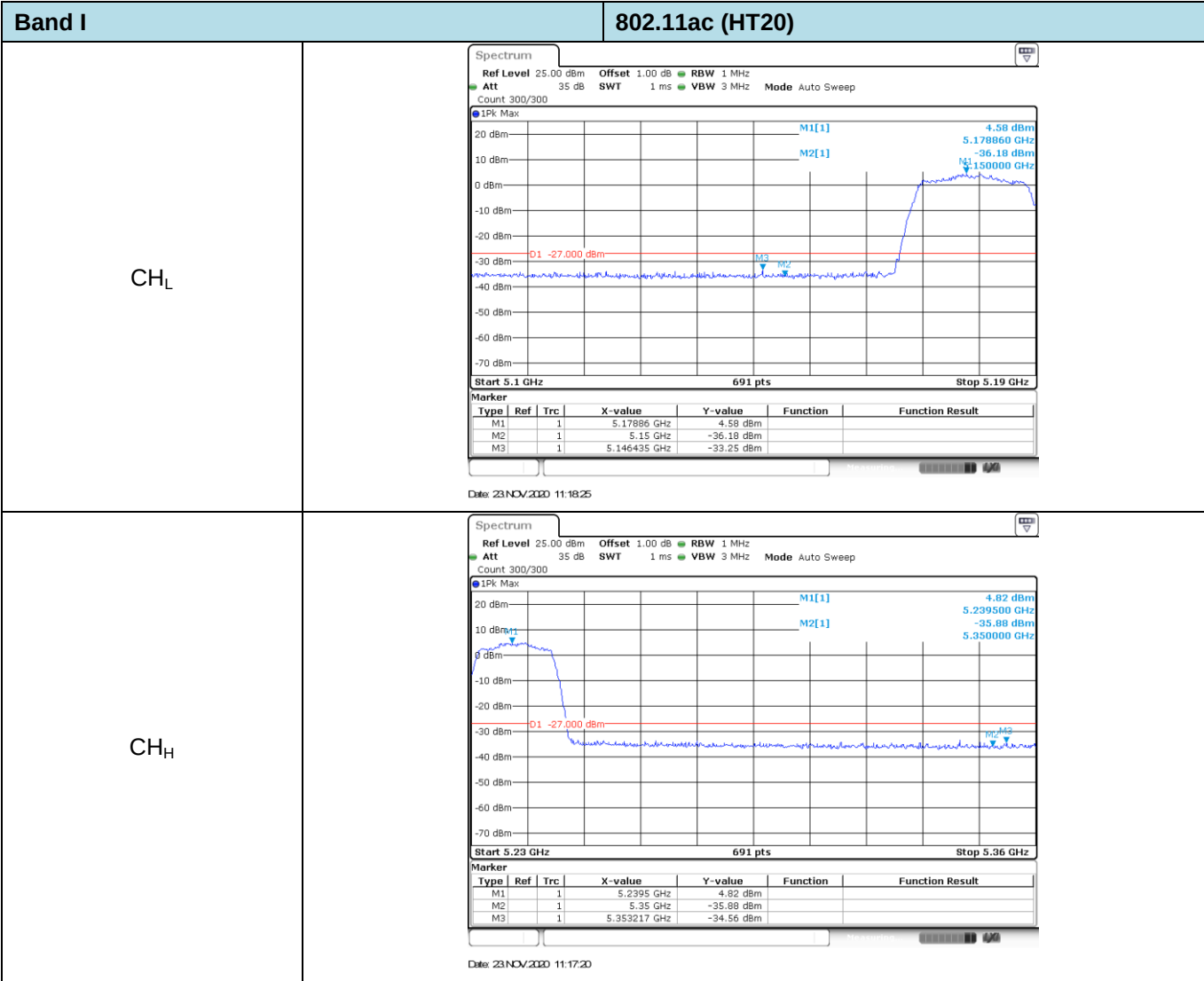


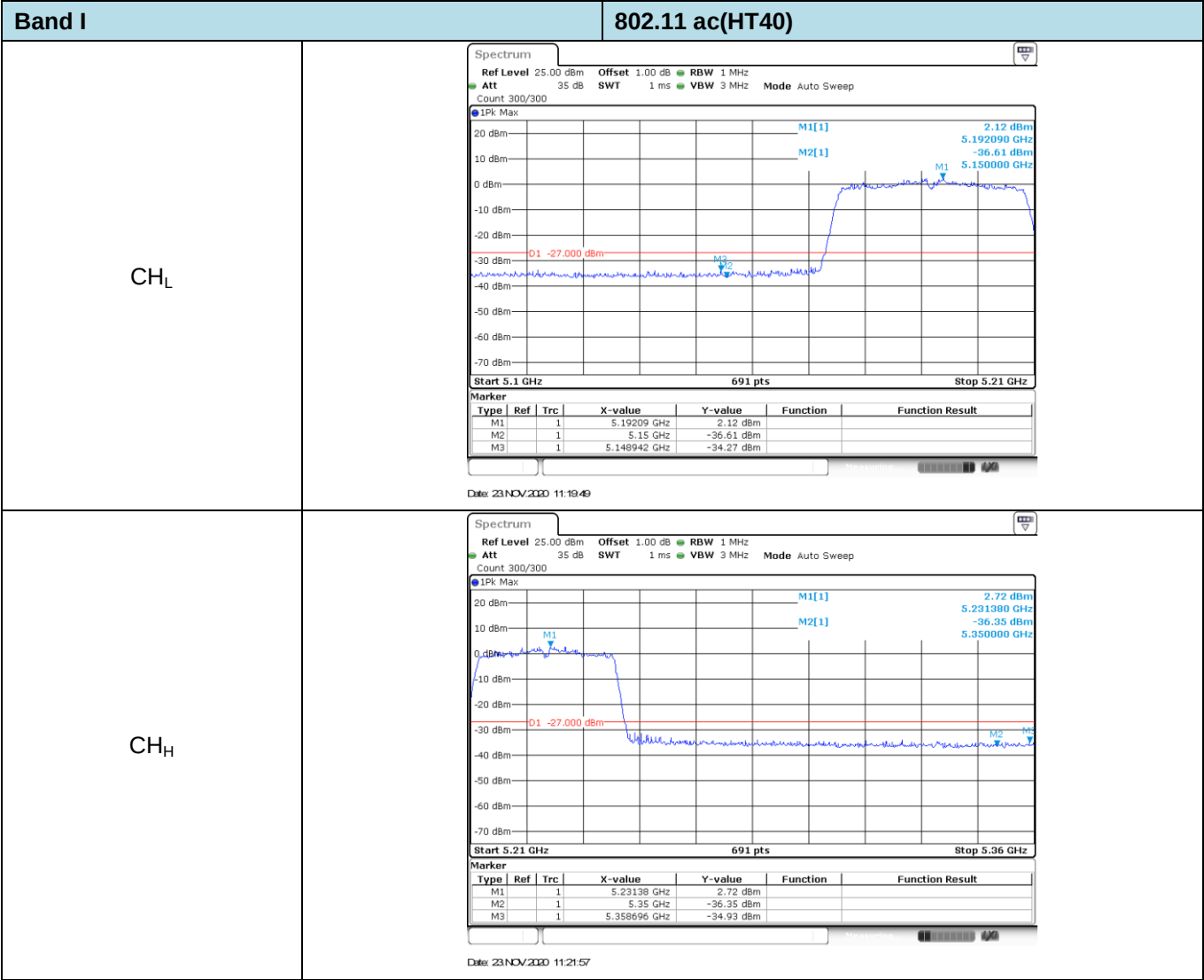
Appendix F: Band edge

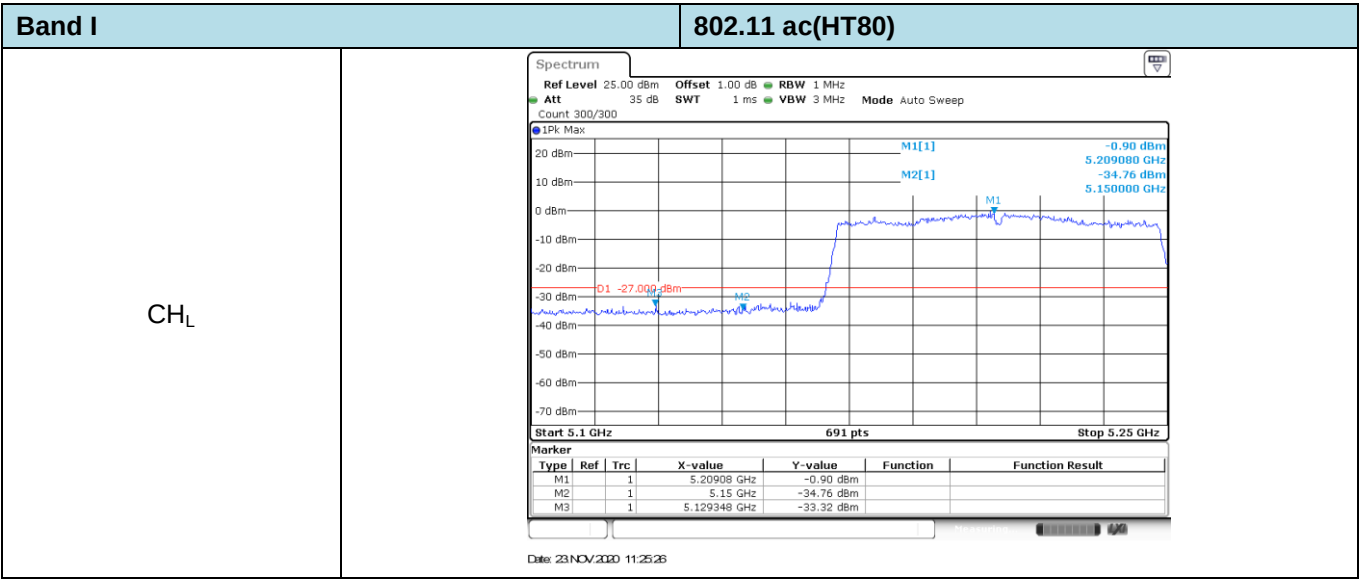


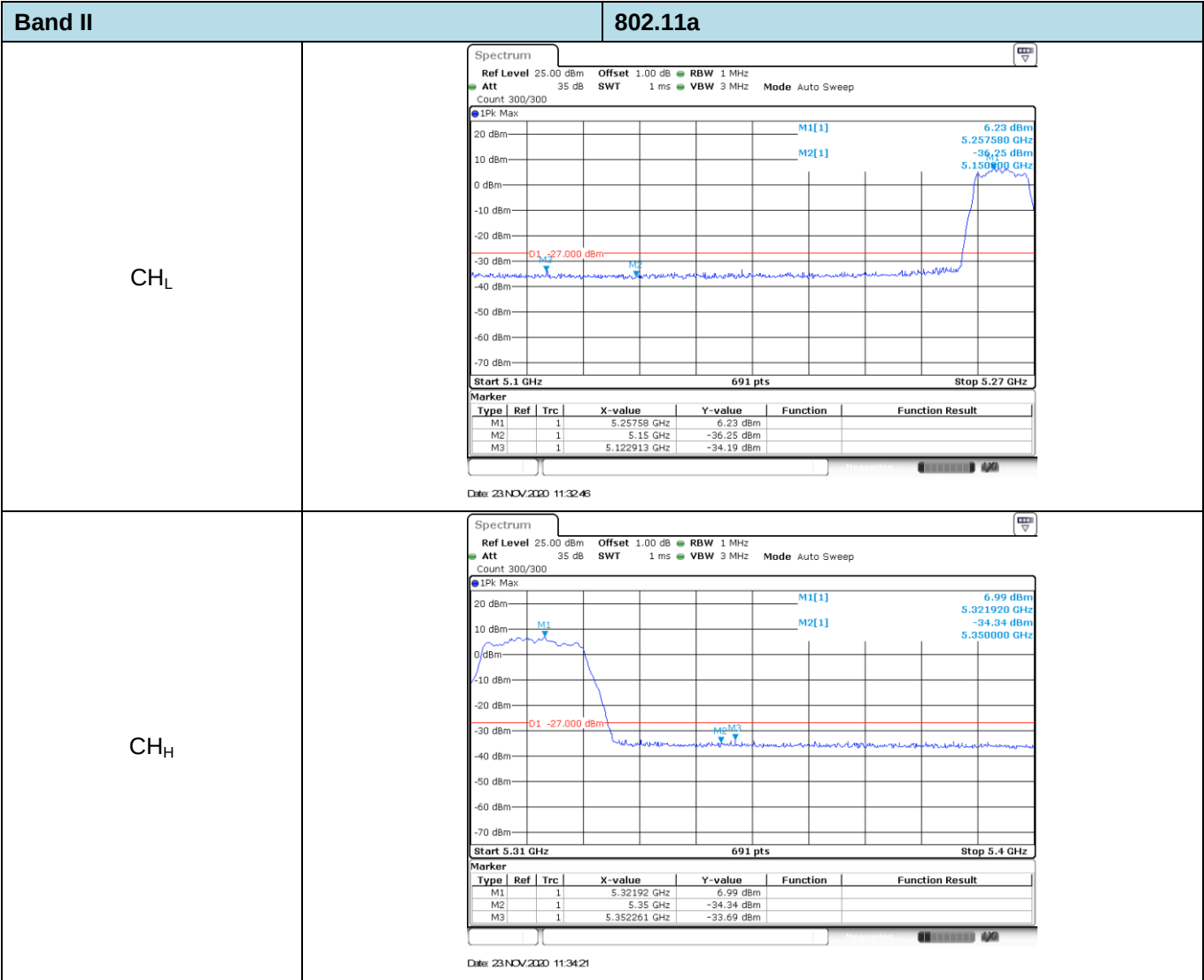


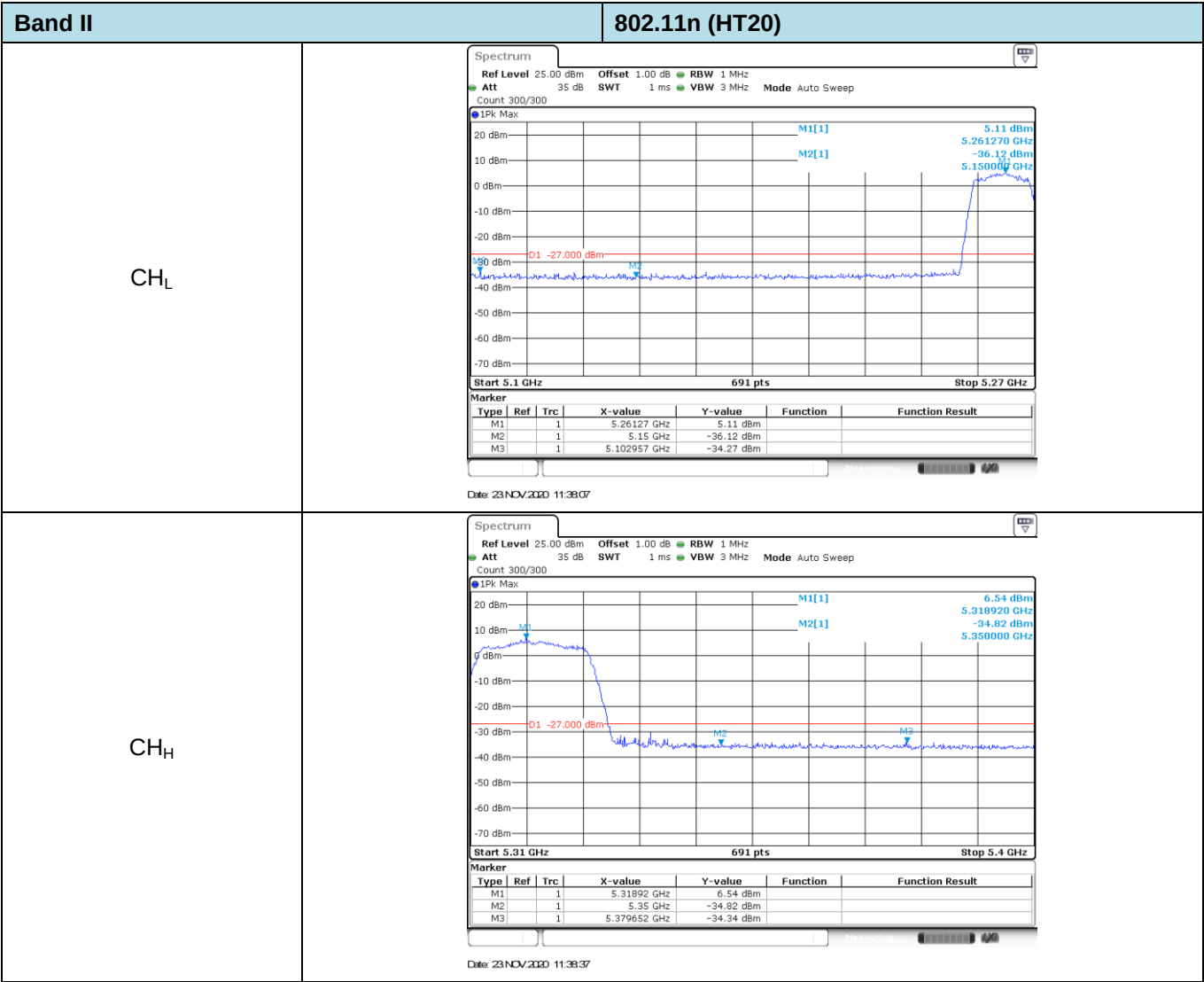


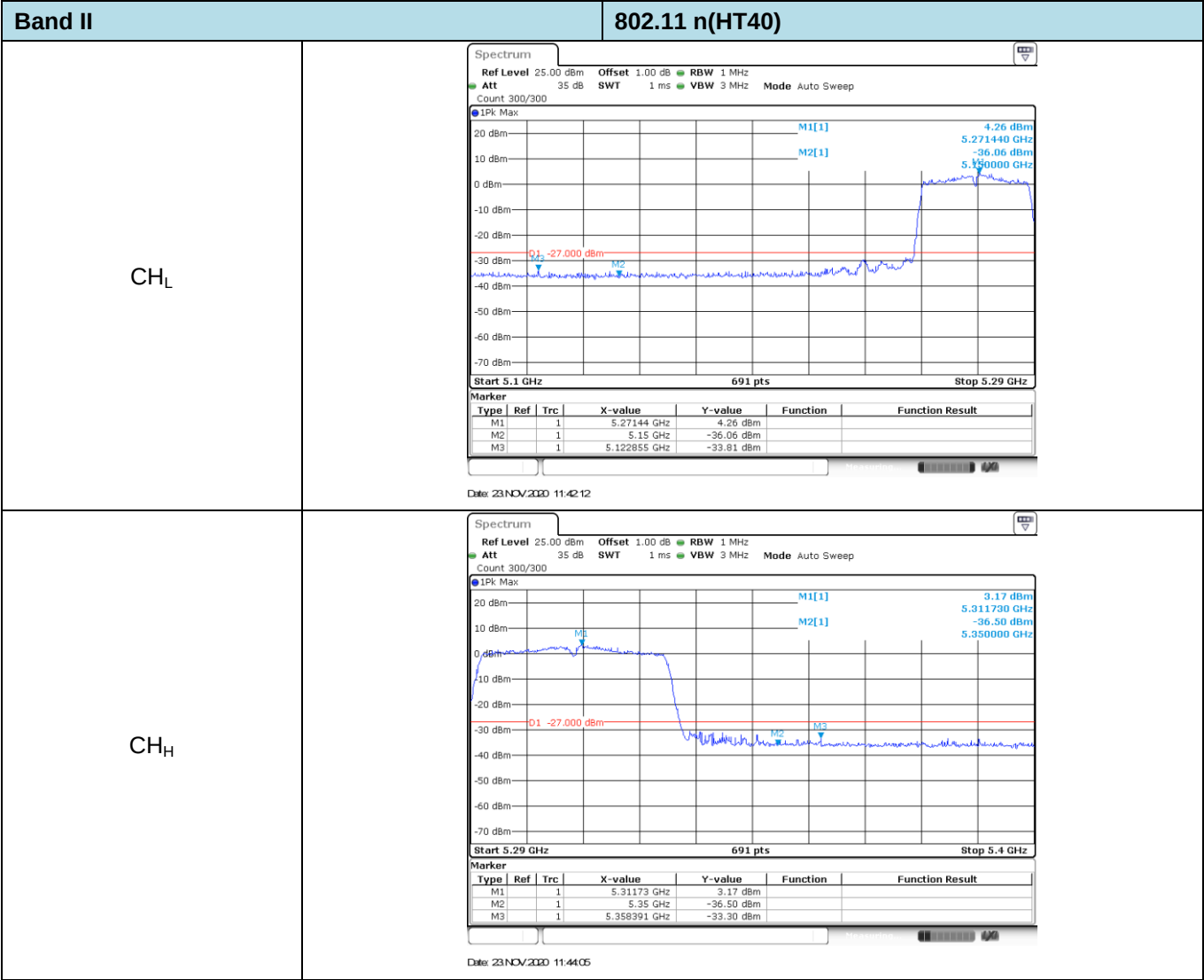


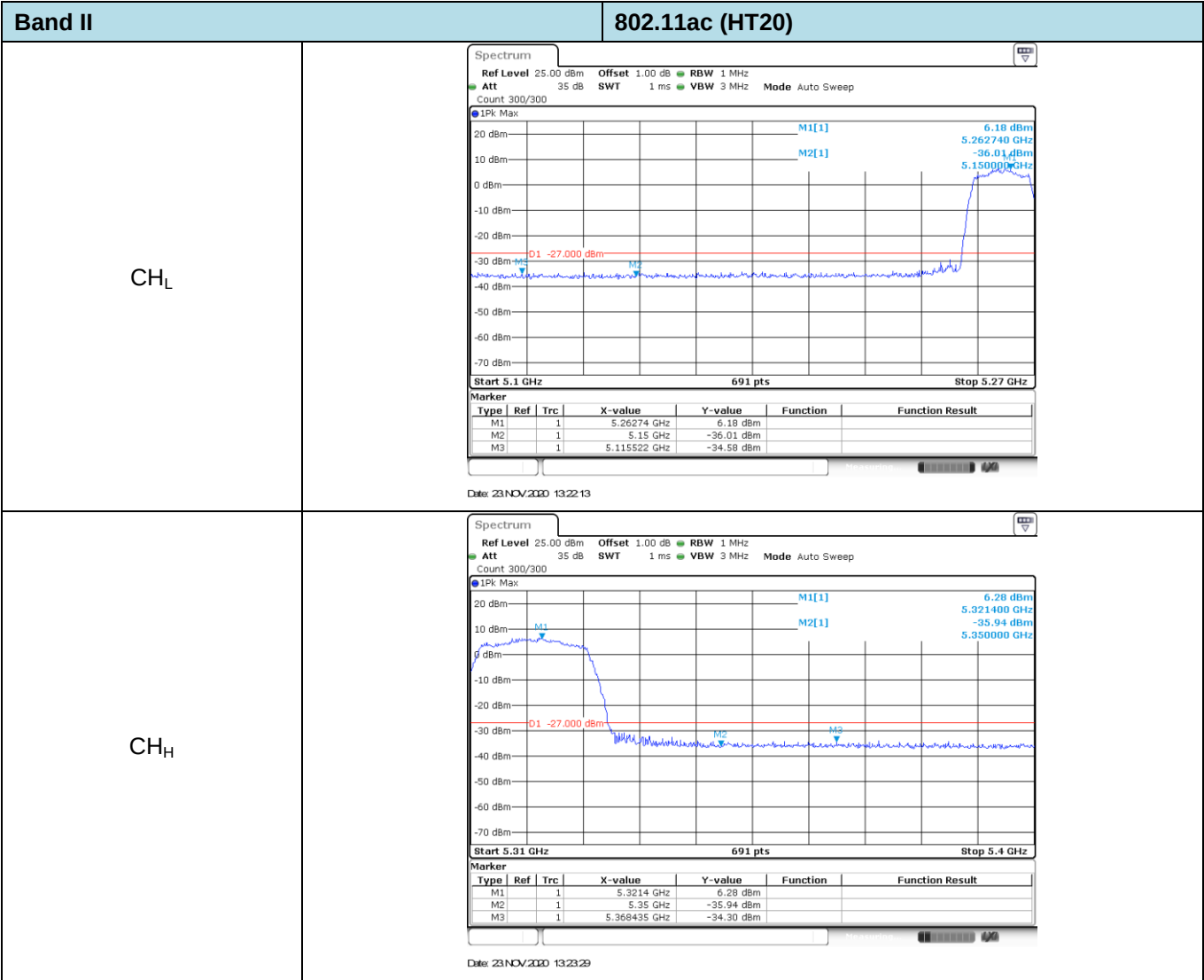


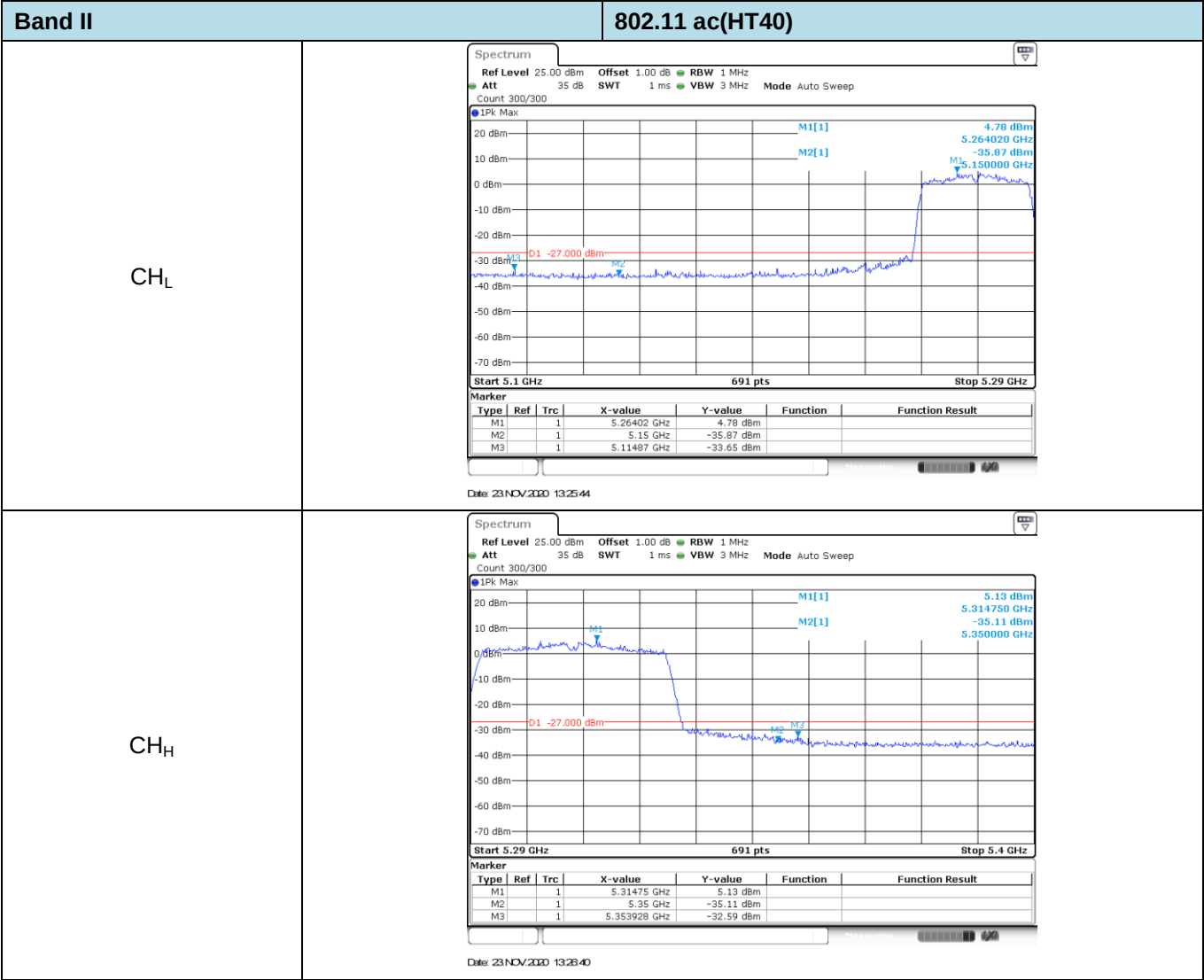


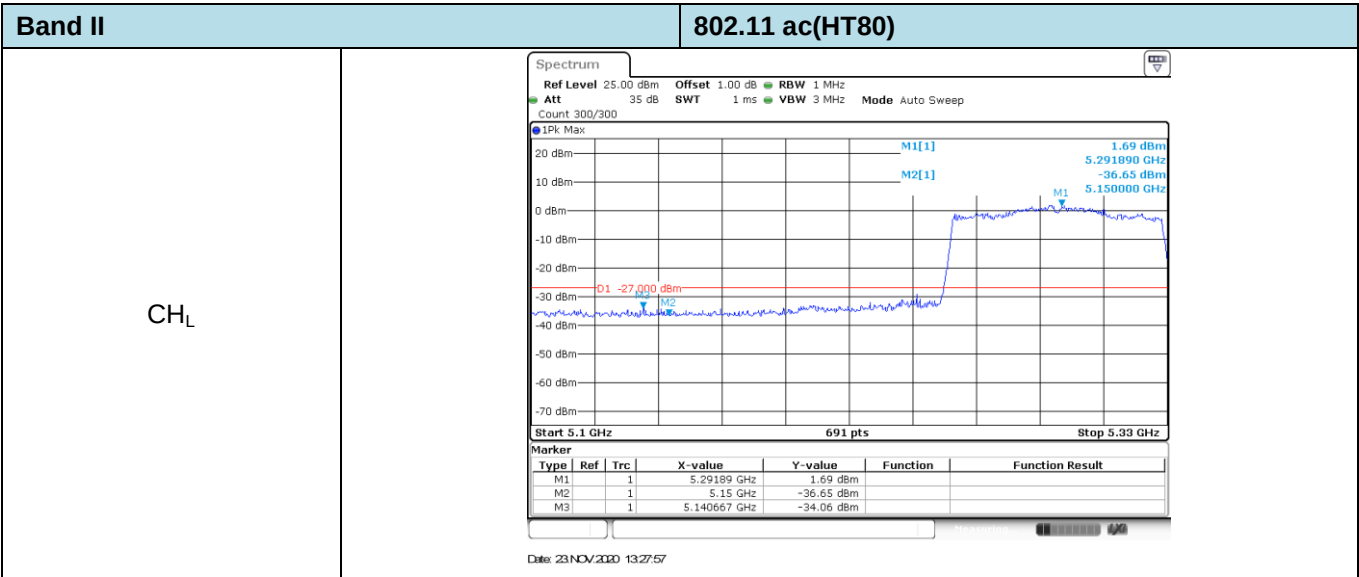


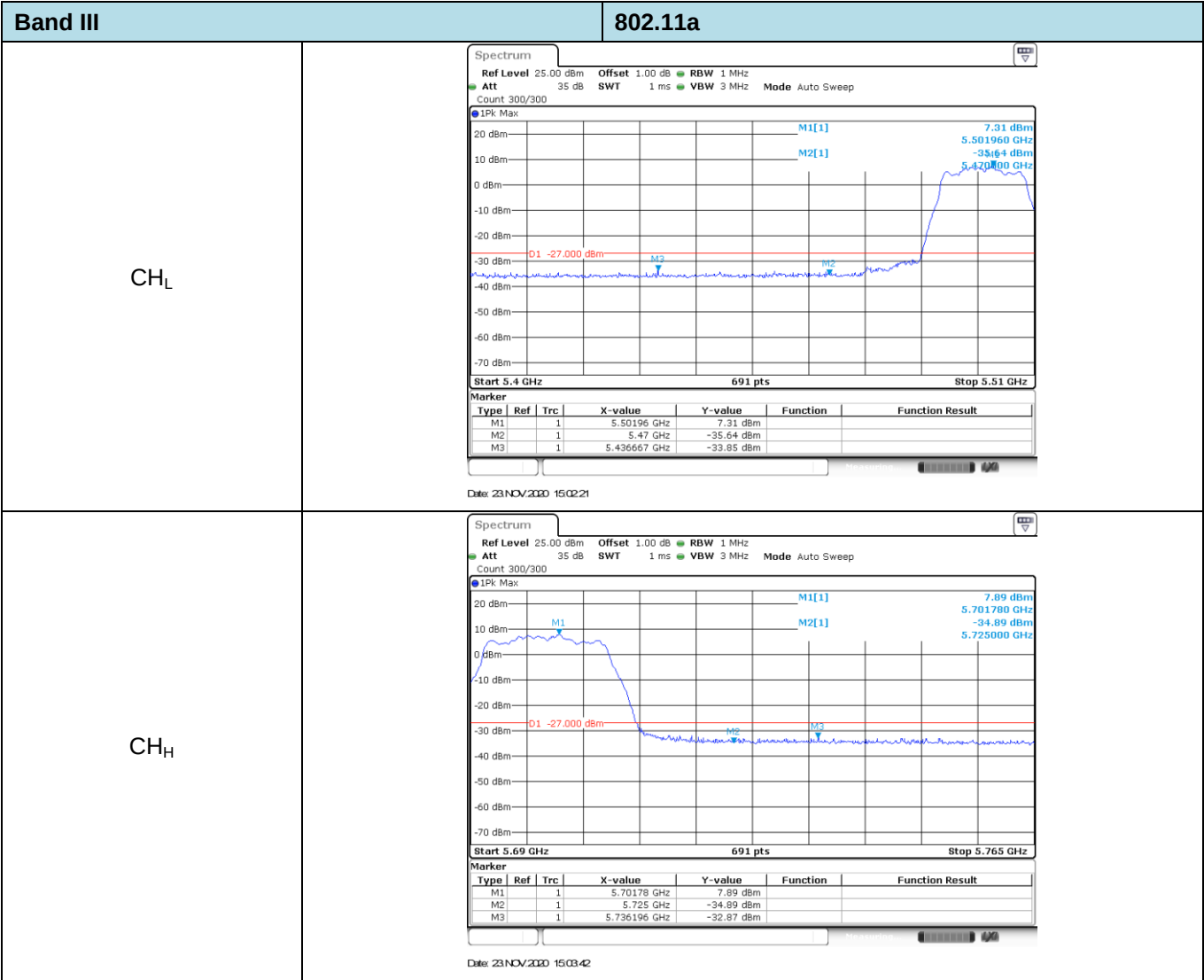


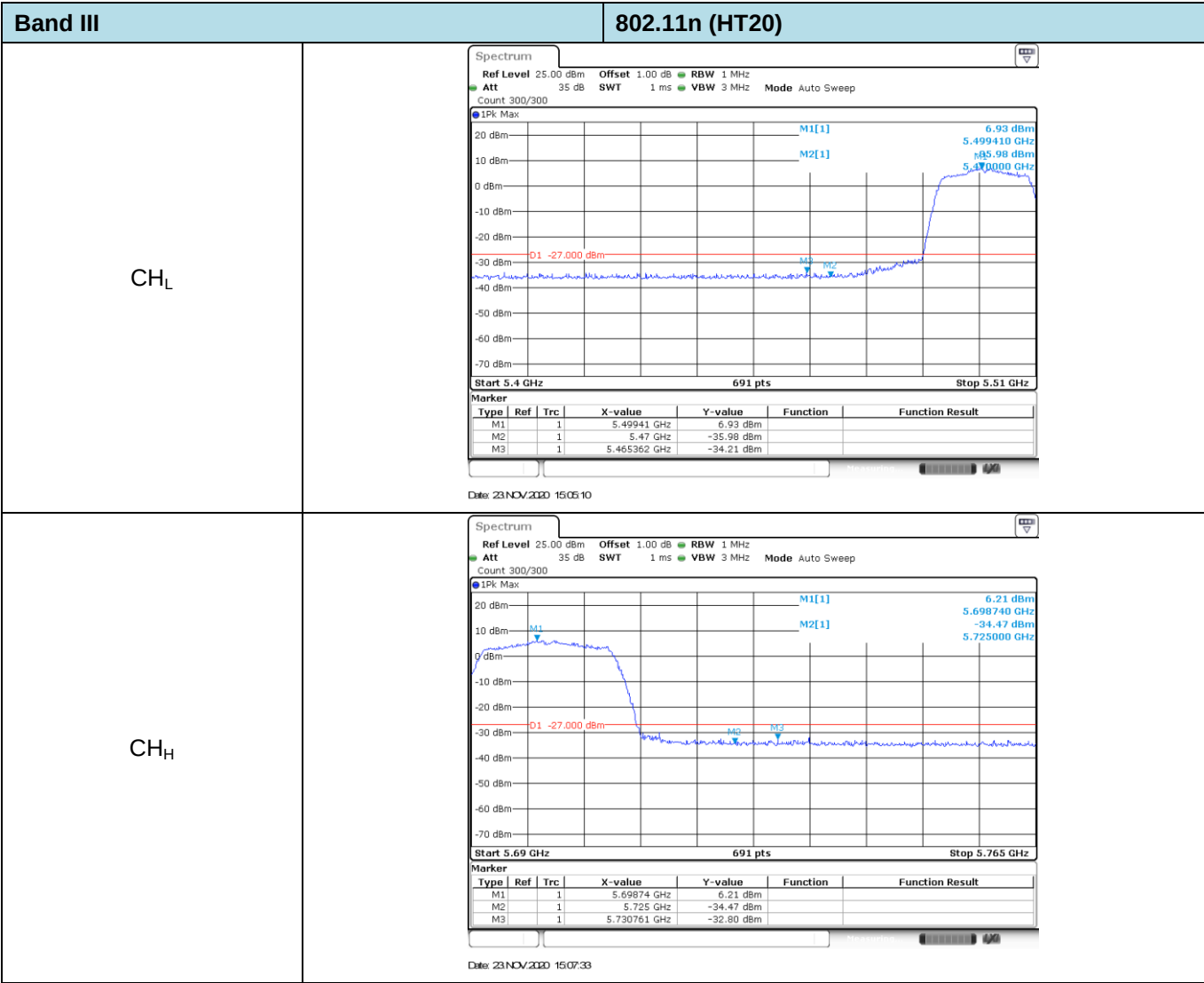


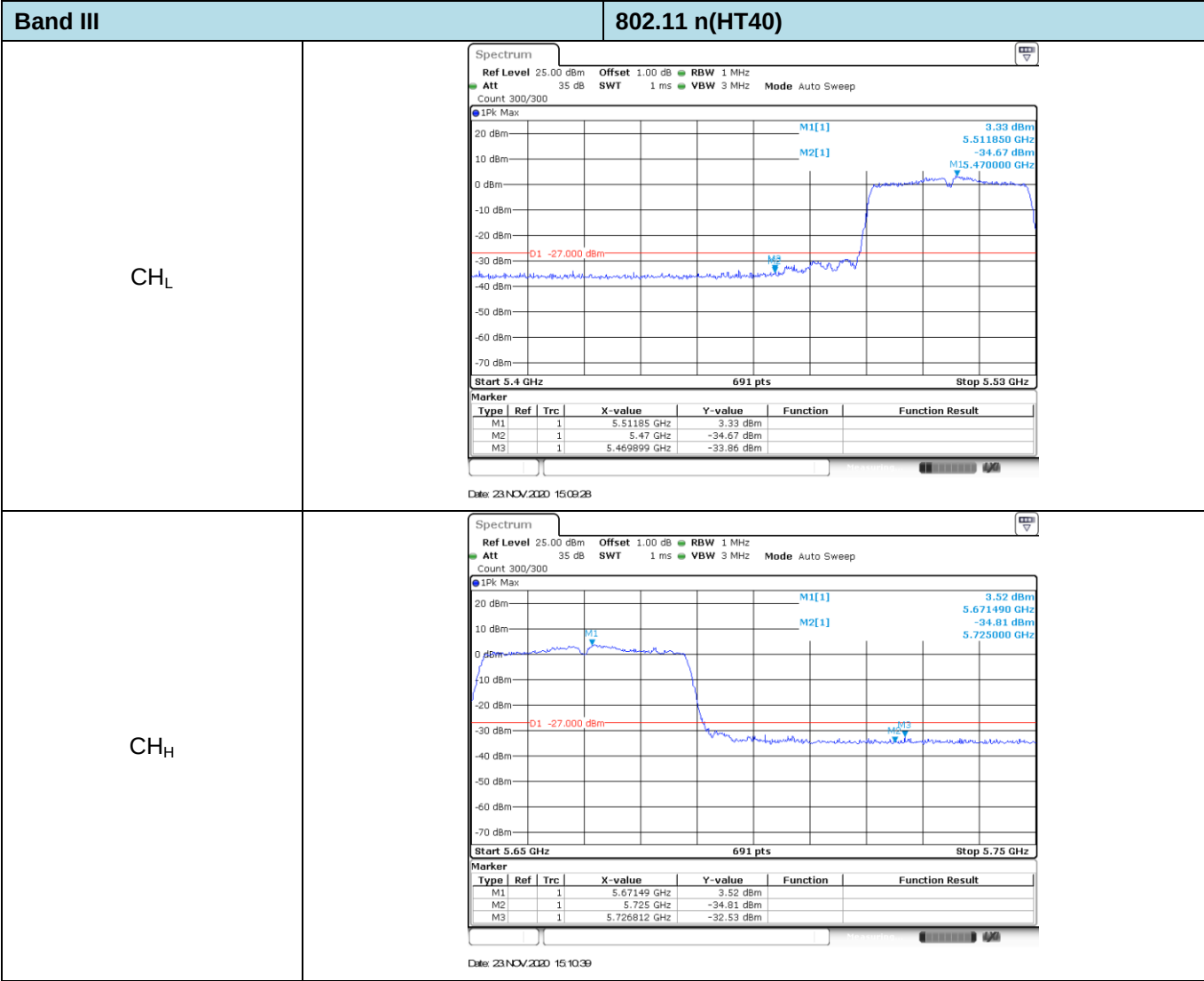


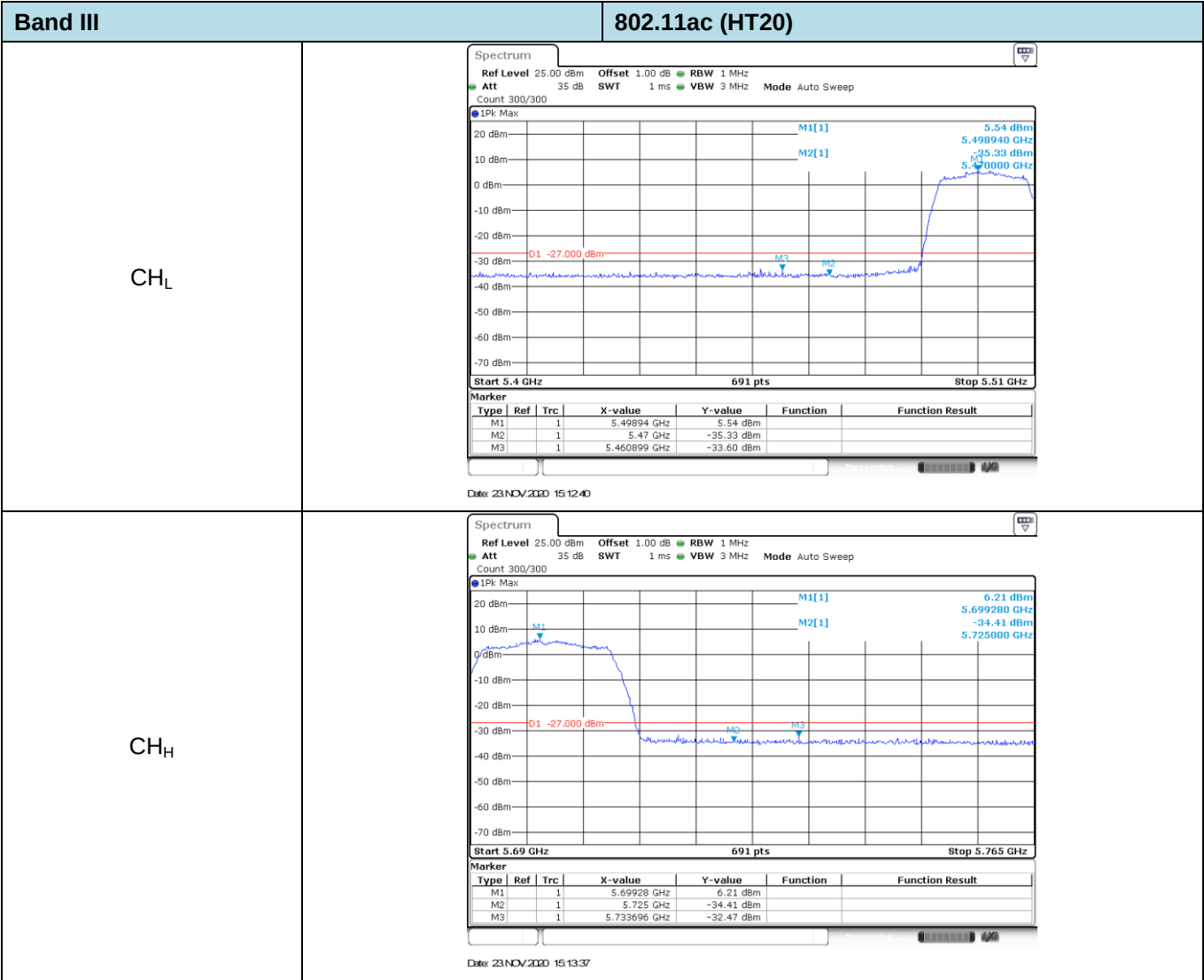


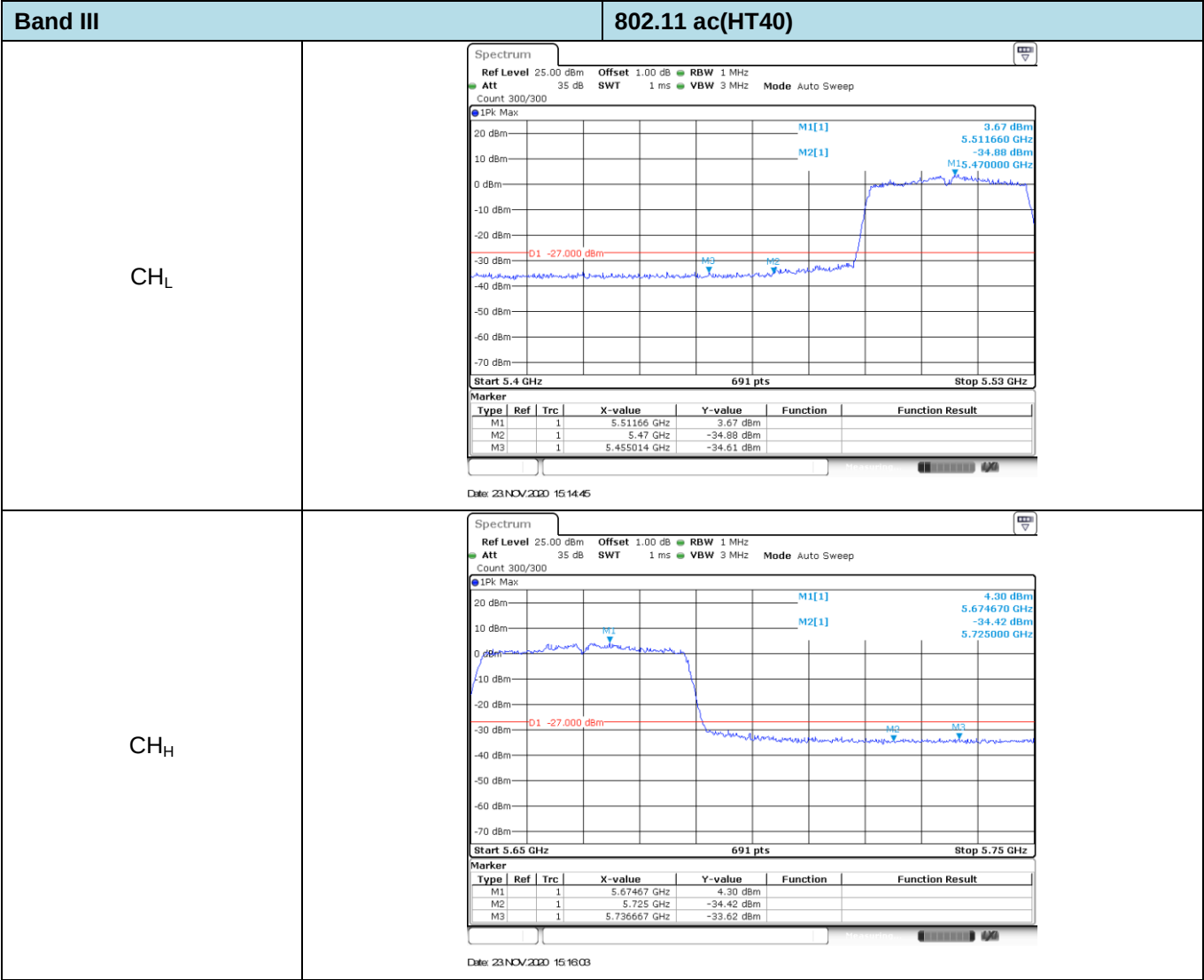


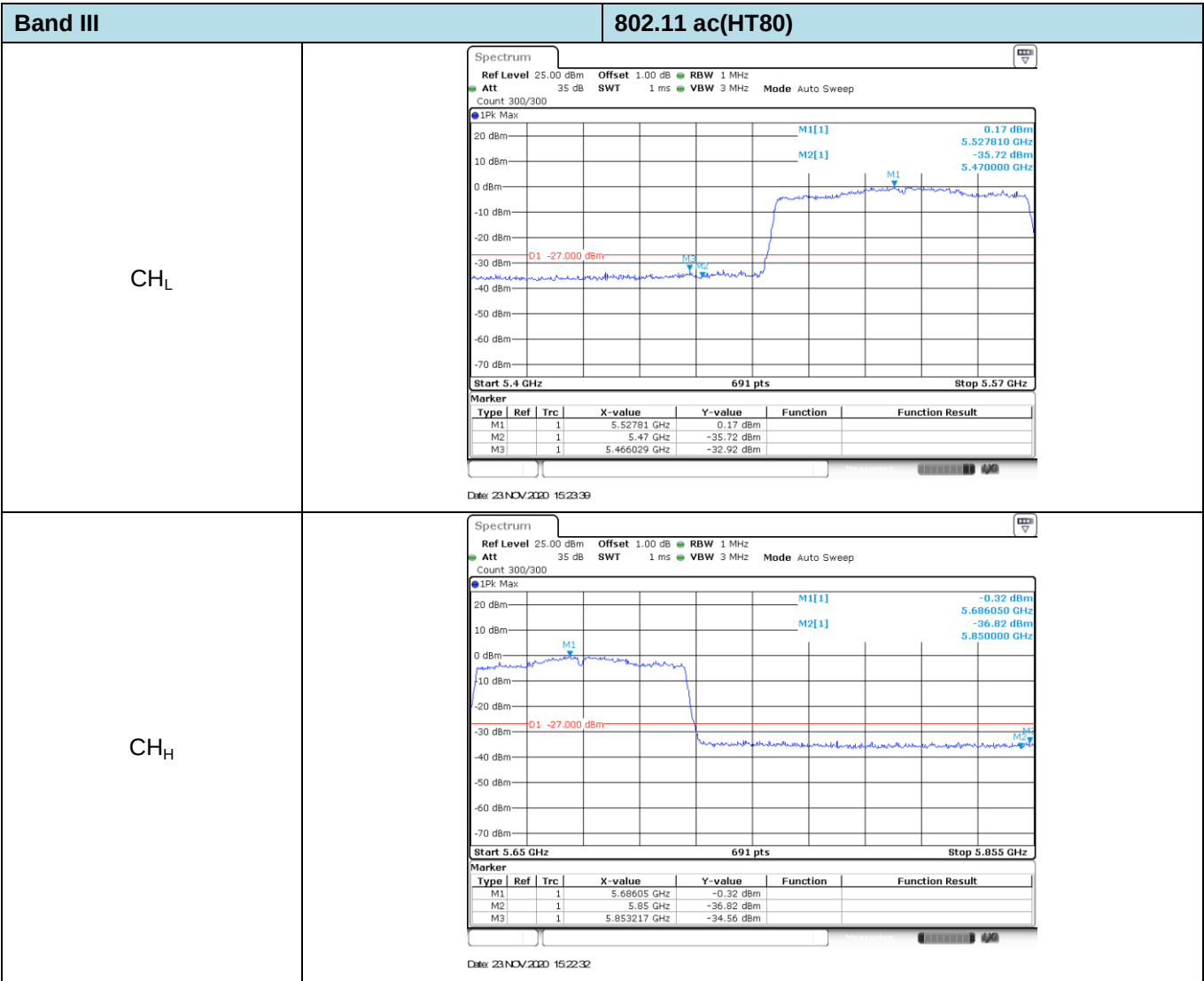


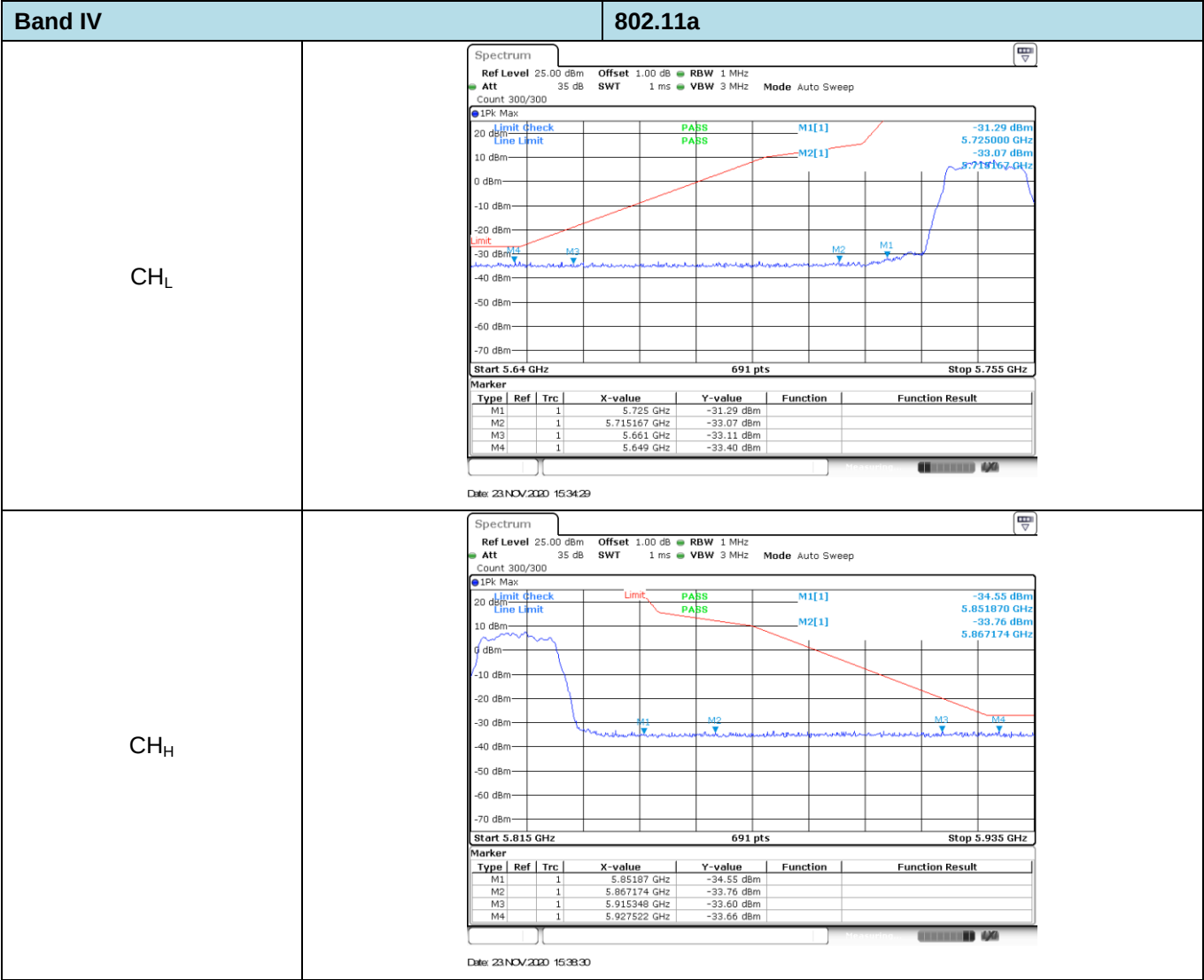


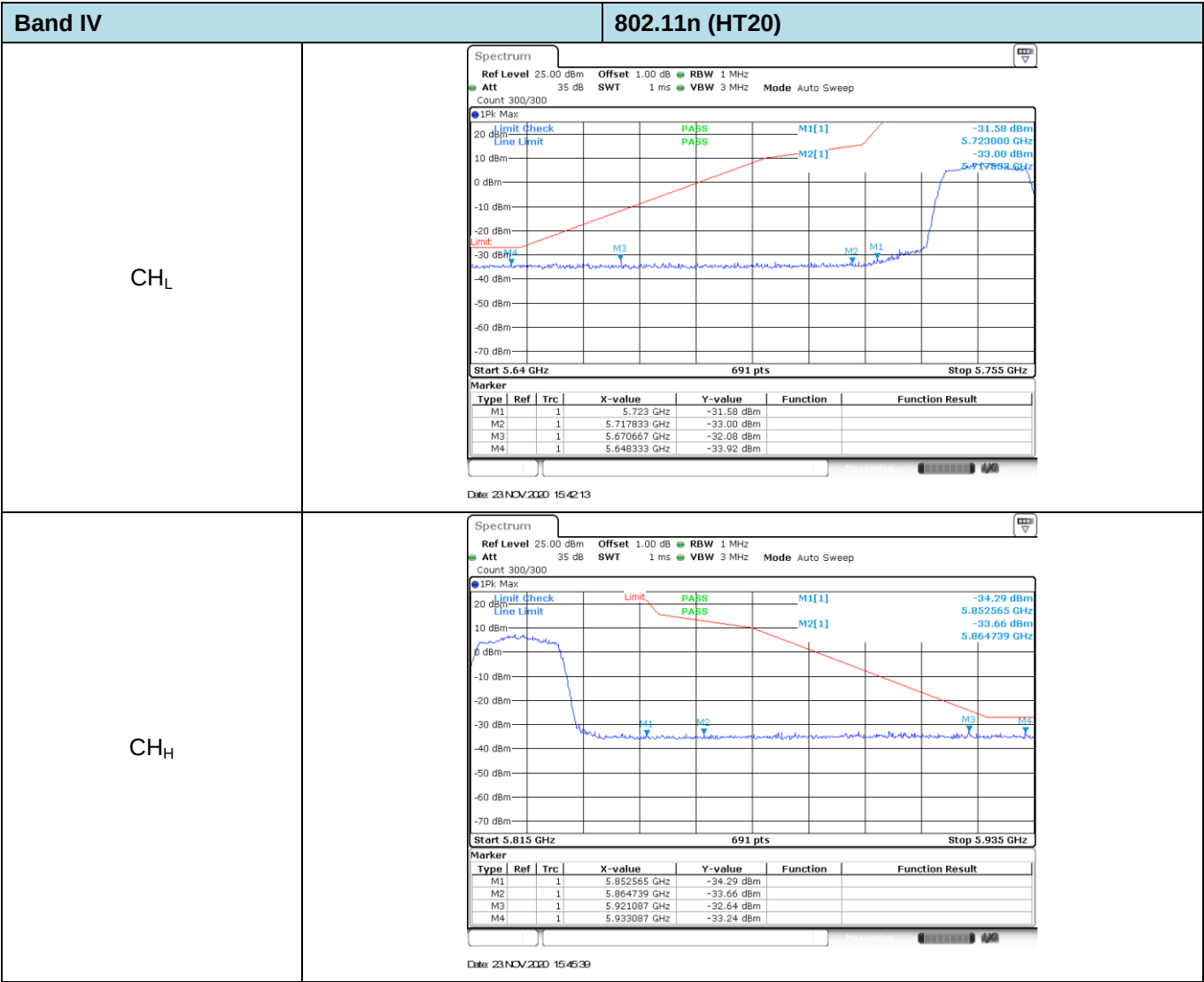


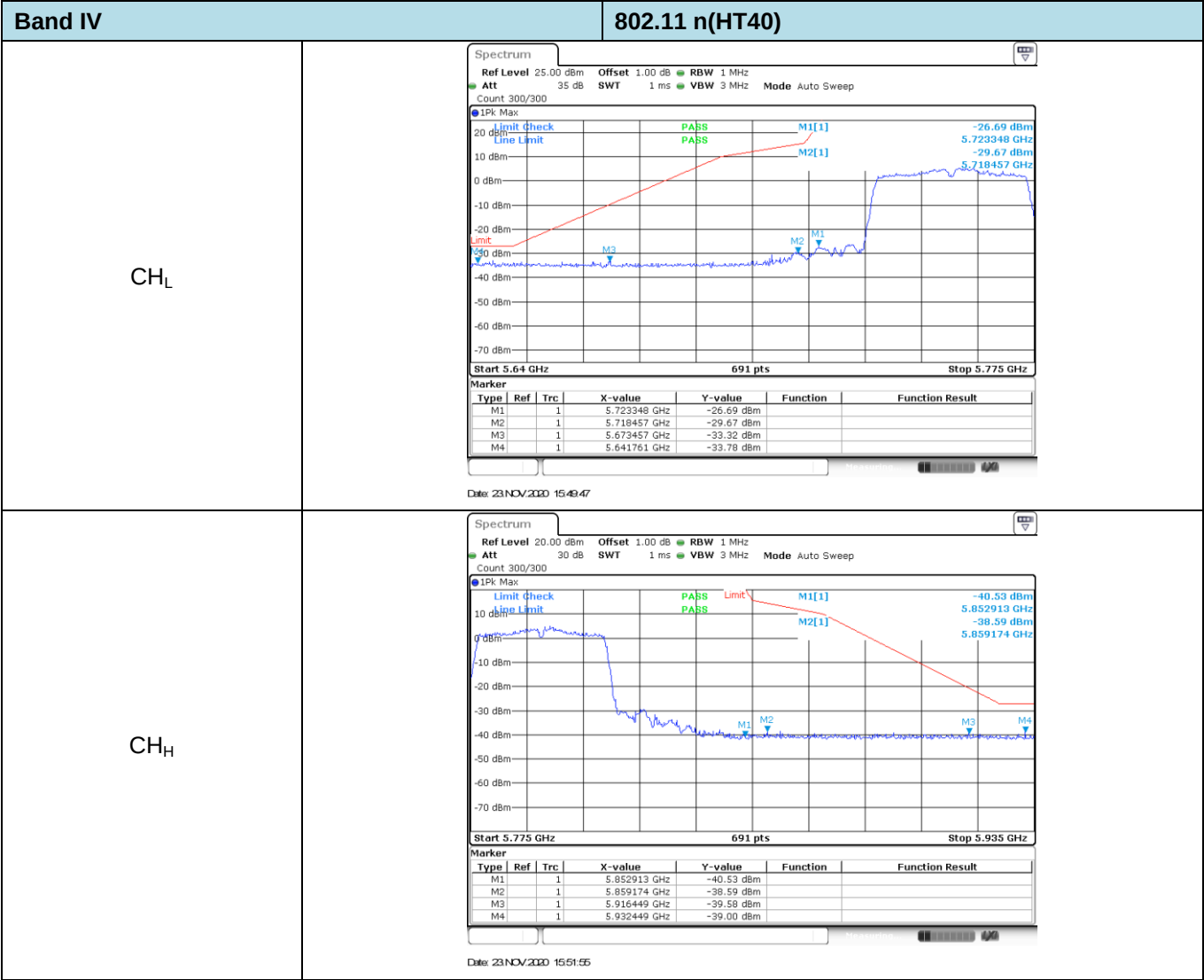


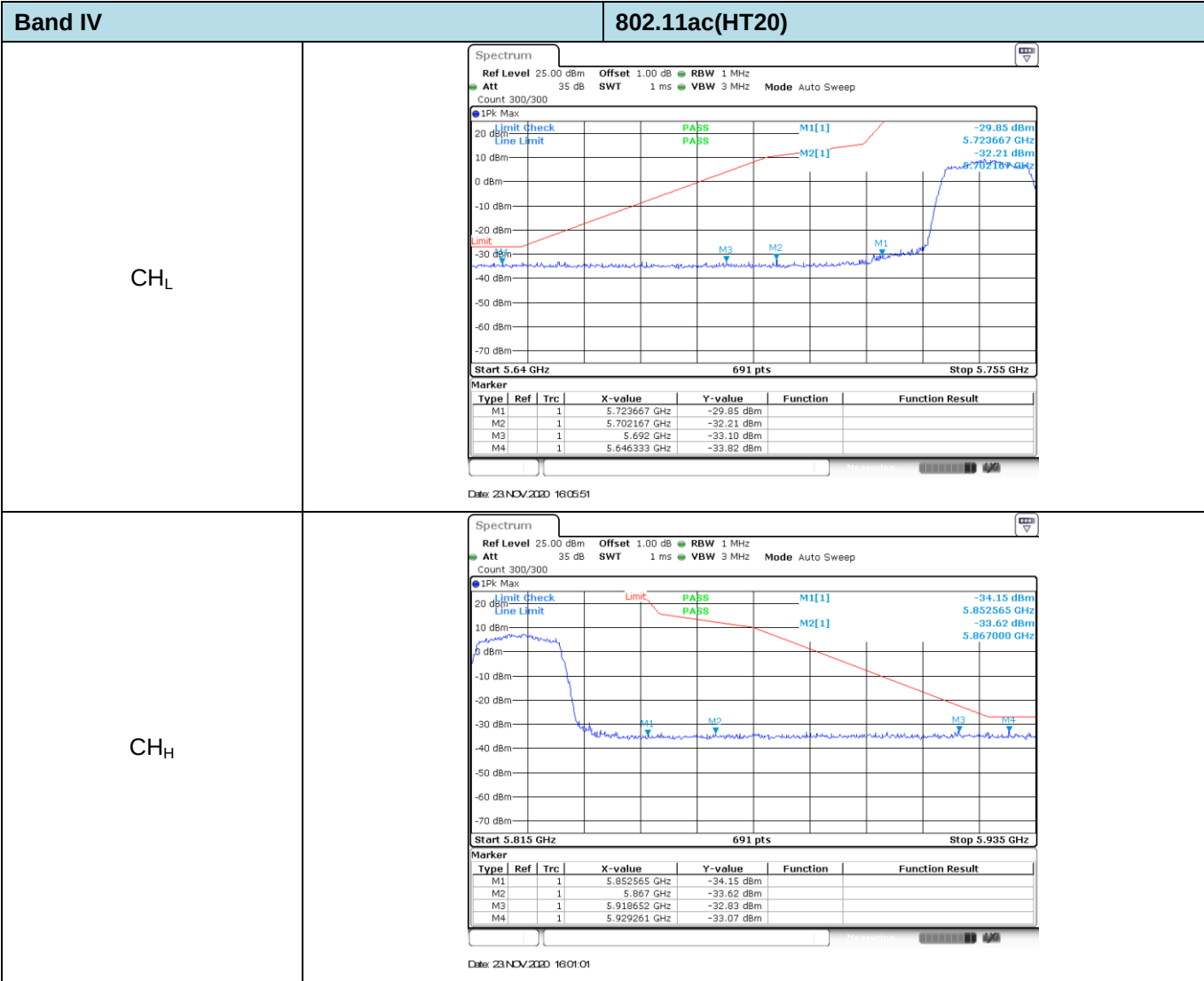


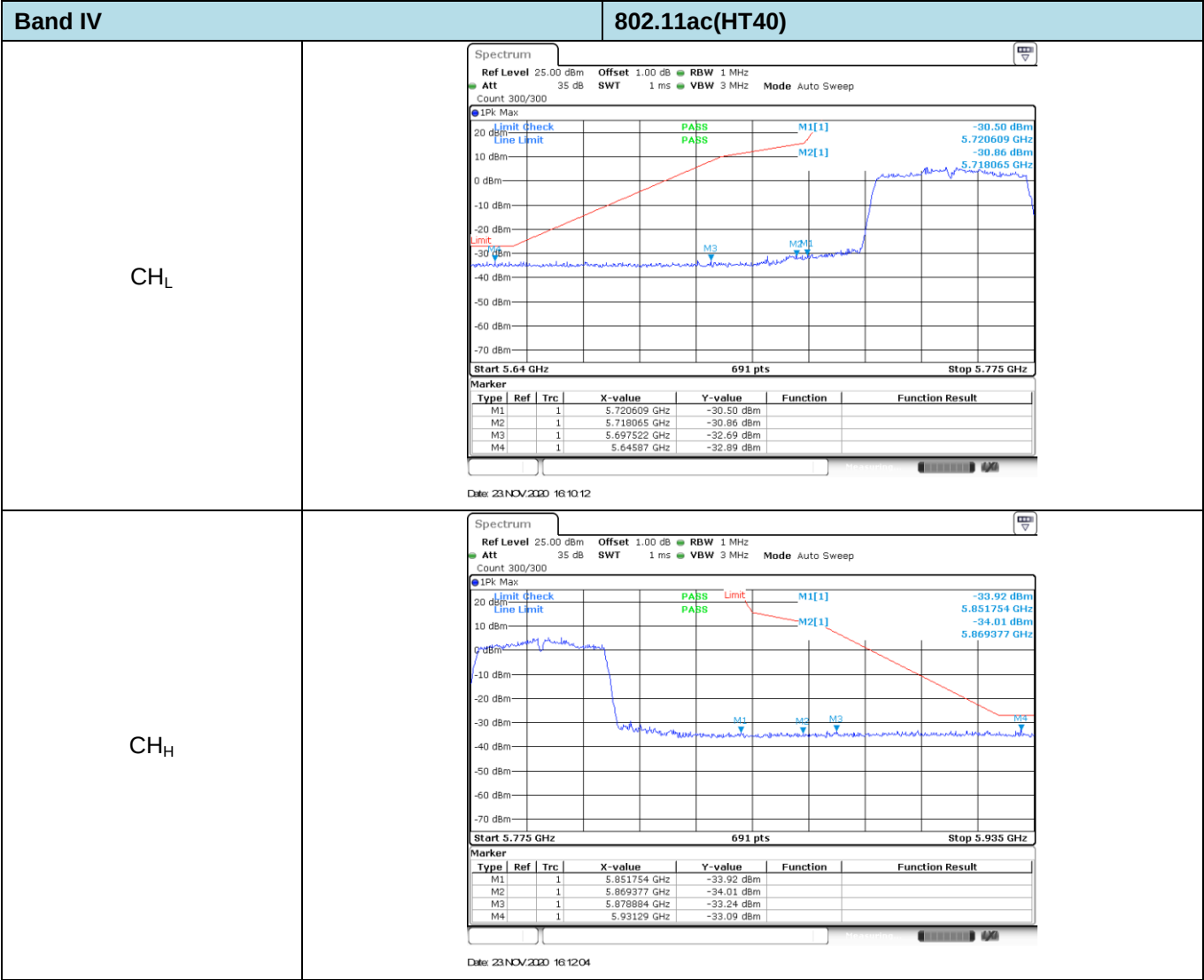


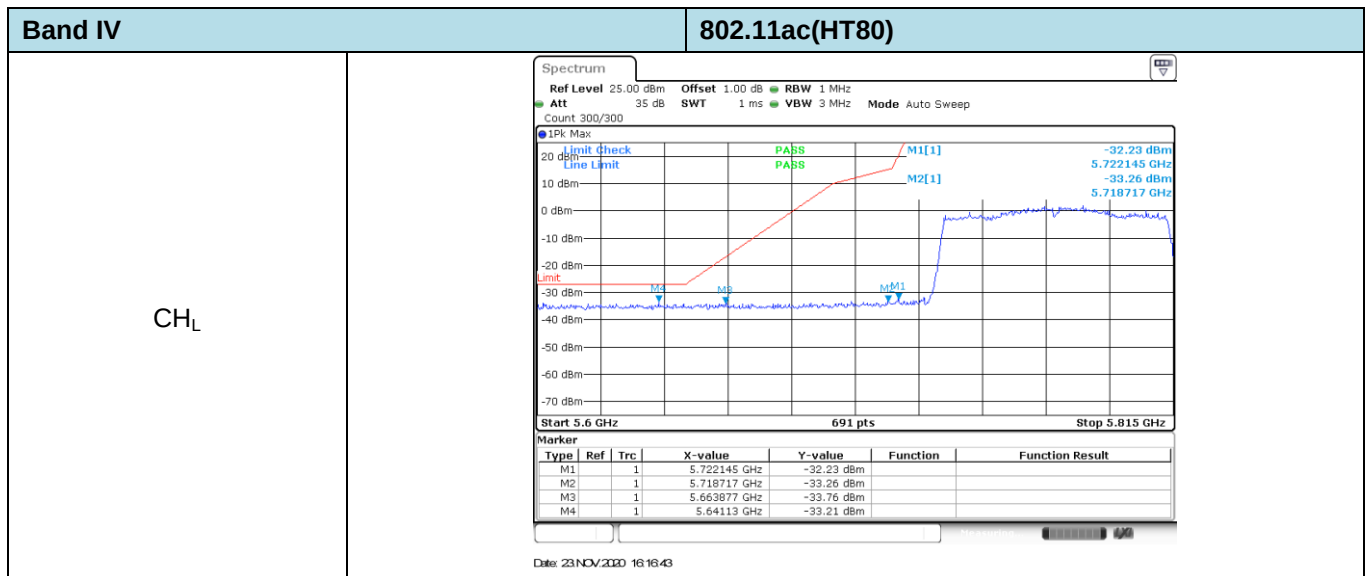












Appendix G: Frequency stability**Voltage VS Frequency stability**

Band: I			Test Frequency: 5180.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	11000.00	2.12355	PASS
T _N	V _N	11000.00	2.12355	PASS
T _N	V _H	10000.00	1.93050	PASS

Band: II			Test Frequency: 5260.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	11000.00	2.09126	PASS
T _N	V _N	11000.00	2.09126	PASS
T _N	V _H	10000.00	1.90114	PASS

Band: III			Test Frequency: 5500.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	10000.00	1.81818	PASS
T _N	V _N	10000.00	1.81818	PASS
T _N	V _H	10000.00	1.81818	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	12000.00	2.08877	PASS
T _N	V _N	13000.00	2.26284	PASS
T _N	V _H	11000.00	1.91471	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	10000.00	1.93050	PASS
V _N	-10	9000.00	1.73745	PASS
V _N	0	9000.00	1.73745	PASS
V _N	10	9000.00	1.73745	PASS
V _N	20	9000.00	1.73745	PASS
V _N	30	9000.00	1.73745	PASS
V _N	40	9000.00	1.73745	PASS
V _N	50	9000.00	1.73745	PASS

Band: II			Test Frequency: 5260.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	10000.00	1.90114	PASS
V _N	-10	10000.00	1.90114	PASS
V _N	0	10000.00	1.90114	PASS
V _N	10	10000.00	1.90114	PASS
V _N	20	10000.00	1.90114	PASS
V _N	30	9000.00	1.71103	PASS
V _N	40	10000.00	1.90114	PASS
V _N	50	10000.00	1.90114	PASS

Band: III			Test Frequency: 5500.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	10000.00	1.81818	PASS
V _N	-10	10000.00	1.81818	PASS
V _N	0	10000.00	1.81818	PASS
V _N	10	9000.00	1.63636	PASS
V _N	20	9000.00	1.63636	PASS
V _N	30	10000.00	1.81818	PASS
V _N	40	9000.00	1.63636	PASS
V _N	50	9000.00	1.63636	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	11000.00	1.91471	PASS
V _N	-10	11000.00	1.91471	PASS
V _N	0	11000.00	1.91471	PASS
V _N	10	11000.00	1.91471	PASS
V _N	20	11000.00	1.91471	PASS
V _N	30	11000.00	1.91471	PASS
V _N	40	11000.00	1.91471	PASS
V _N	50	11000.00	1.91471	PASS

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