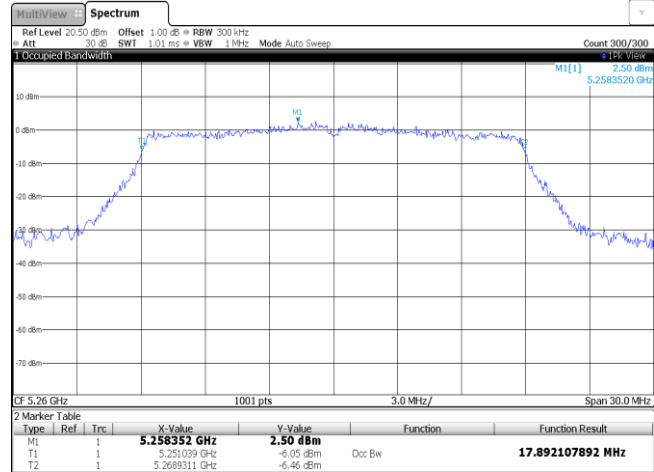
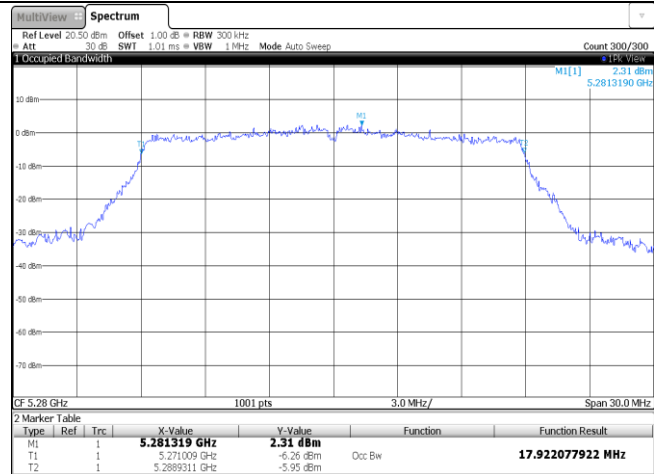


Band II

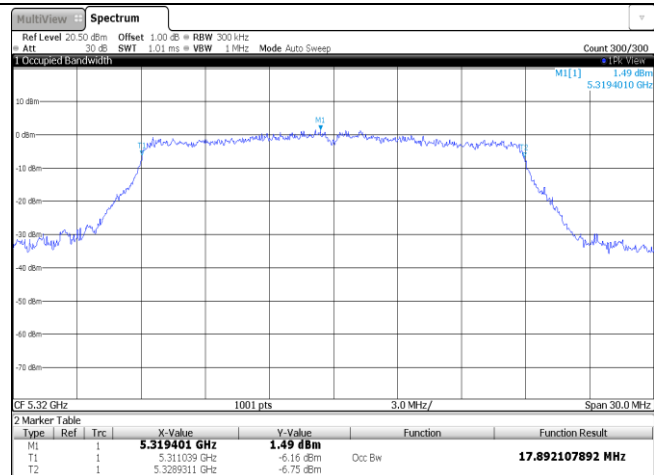
802.11n (HT20)

CH_L

Date: 2.JUN.2020 17:06:31

CH_M

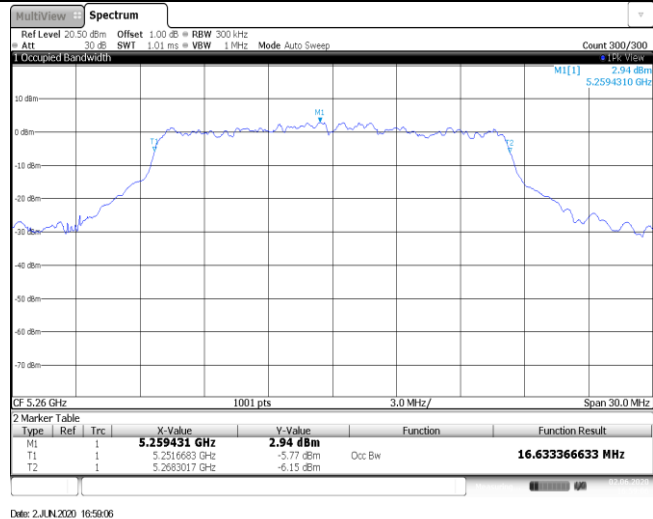
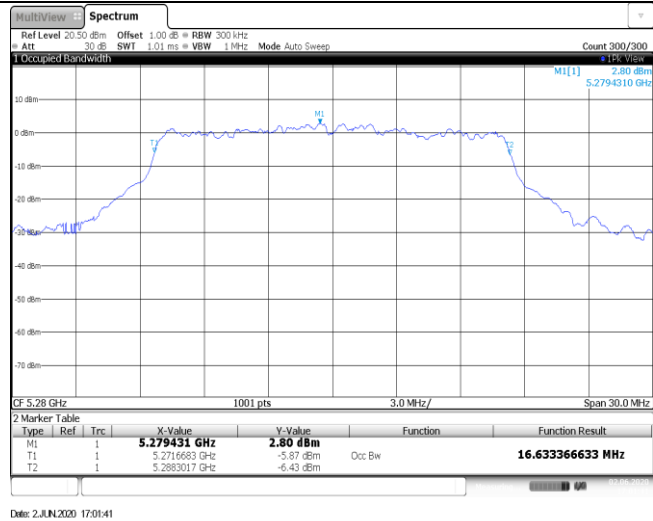
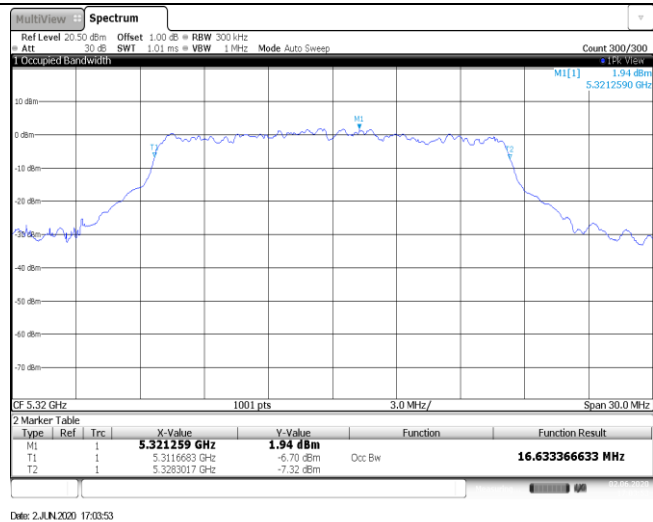
Date: 2.JUN.2020 17:09:00

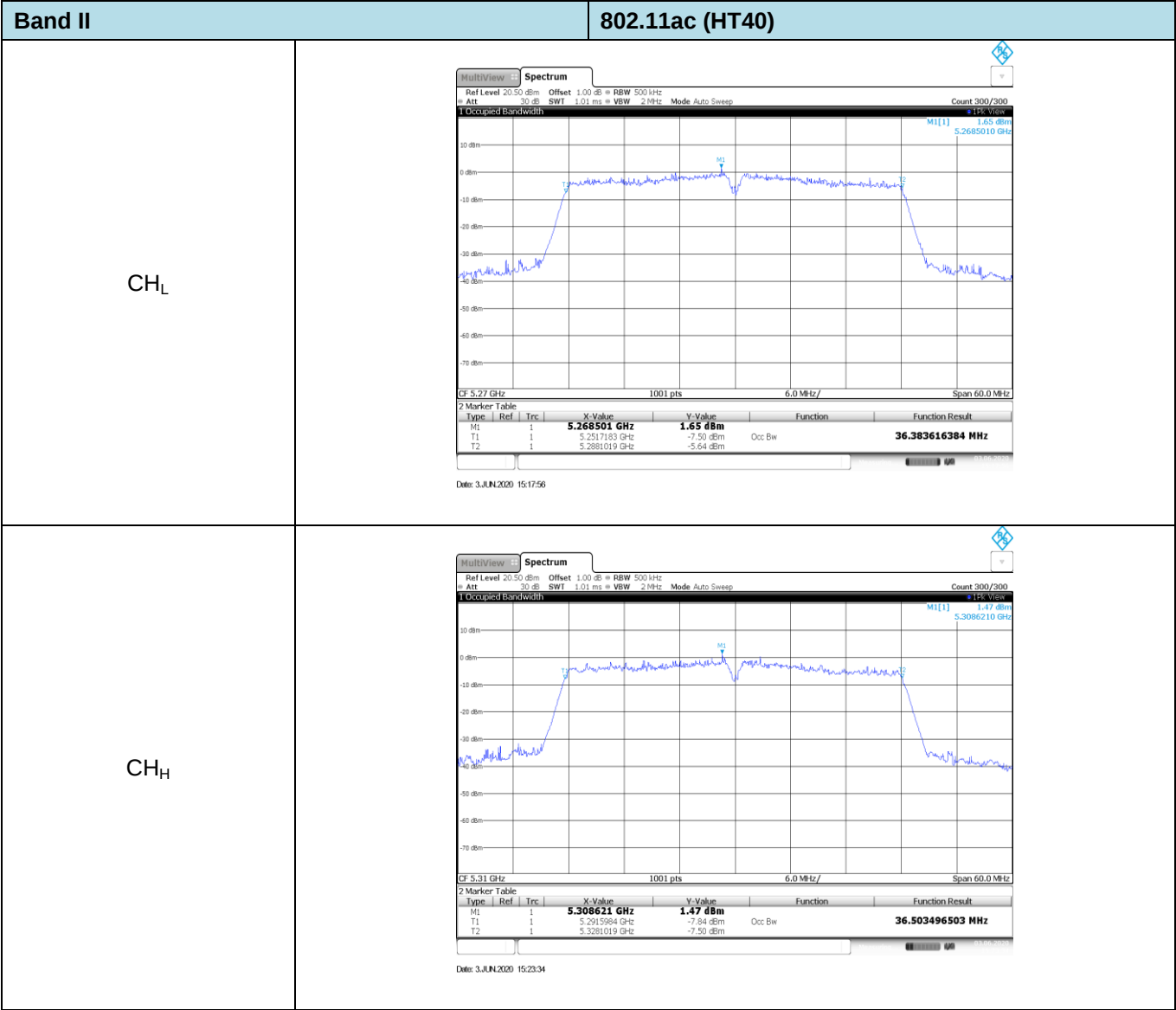
CH_H

Date: 2.JUN.2020 17:11:46

Band II

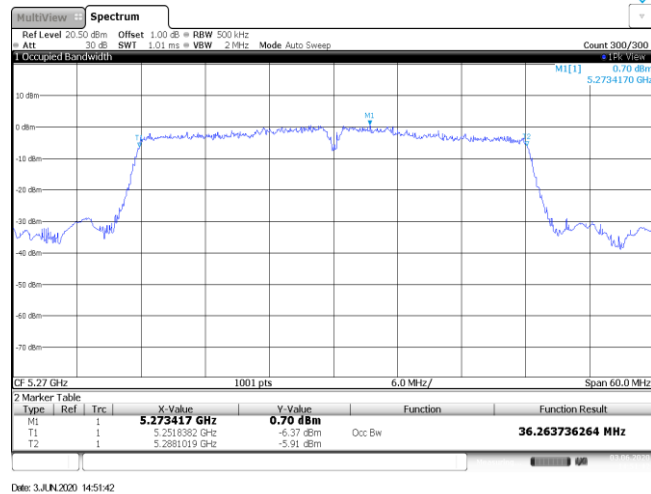
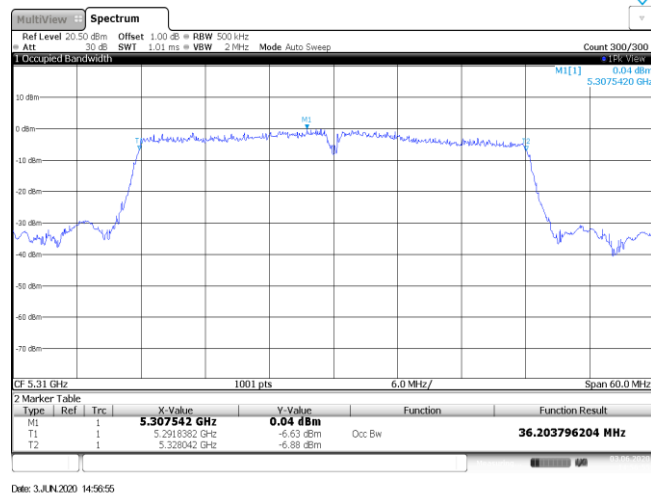
802.11a

CH_LCH_MCH_H



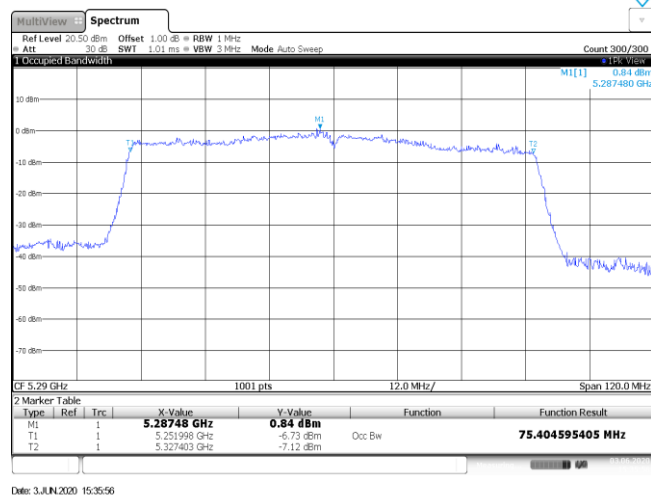
Band II

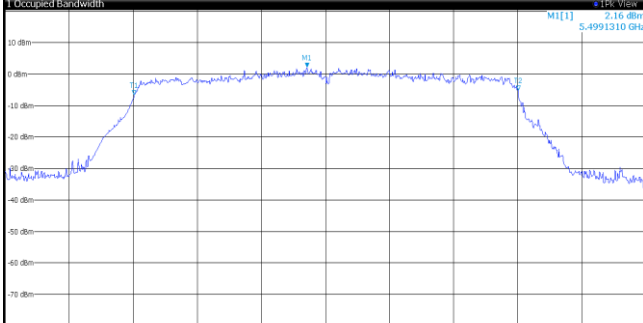
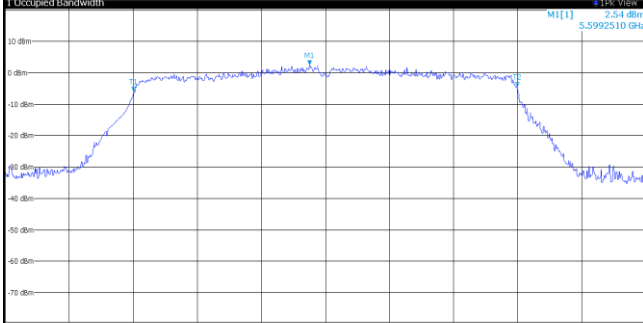
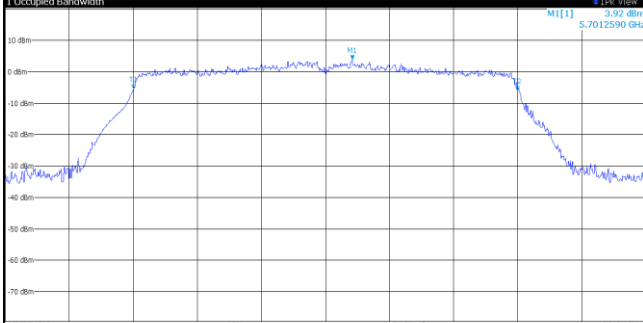
802.11n (HT40)

CH_LCH_H

Band II

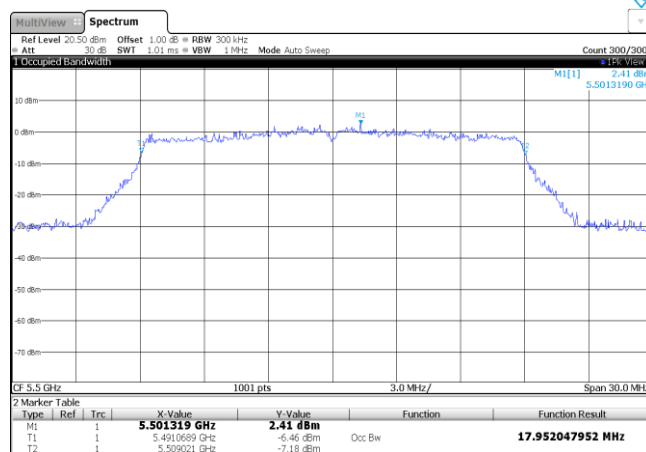
802.11ac (HT80)

CH_M

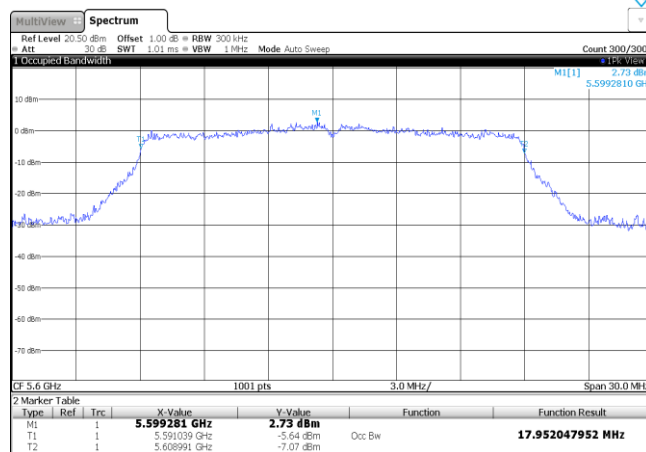
Band III		802.11ac (HT20)																											
CH _L	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 2.16 dBm 5.4991310 GHz  CF 5.5 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz 2 Marker Table <table><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>5.499131 GHz</td><td>2.16 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.491039 GHz</td><td>-6.53 dBm</td><td>Occ Bw</td><td>17.982017982 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.509021 GHz</td><td>-5.01 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 16:58:52	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.499131 GHz	2.16 dBm			T1	1		5.491039 GHz	-6.53 dBm	Occ Bw	17.982017982 MHz	T2	1		5.509021 GHz	-5.01 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.499131 GHz	2.16 dBm																									
T1	1		5.491039 GHz	-6.53 dBm	Occ Bw	17.982017982 MHz																							
T2	1		5.509021 GHz	-5.01 dBm																									
CH _M	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 2.54 dBm 5.5992510 GHz  CF 5.6 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>5.599251 GHz</td><td>2.54 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.591009 GHz</td><td>-5.71 dBm</td><td>Occ Bw</td><td>17.982017982 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.608991 GHz</td><td>-4.22 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 17:02:35	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.599251 GHz	2.54 dBm			T1	1		5.591009 GHz	-5.71 dBm	Occ Bw	17.982017982 MHz	T2	1		5.608991 GHz	-4.22 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.599251 GHz	2.54 dBm																									
T1	1		5.591009 GHz	-5.71 dBm	Occ Bw	17.982017982 MHz																							
T2	1		5.608991 GHz	-4.22 dBm																									
CH _H	MultiView Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 300 kHz SWT 1.01 ms VBW 1 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth M1[1] 3.92 dBm 5.7012590 GHz  CF 5.7 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>5.701259 GHz</td><td>3.92 dBm</td><td></td><td></td></tr><tr><td>T1</td><td>1</td><td></td><td>5.691009 GHz</td><td>-5.32 dBm</td><td>Occ Bw</td><td>17.982017982 MHz</td></tr><tr><td>T2</td><td>1</td><td></td><td>5.708991 GHz</td><td>-5.89 dBm</td><td></td><td></td></tr></table> Date: 3.JUN.2020 17:05:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		5.701259 GHz	3.92 dBm			T1	1		5.691009 GHz	-5.32 dBm	Occ Bw	17.982017982 MHz	T2	1		5.708991 GHz	-5.89 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		5.701259 GHz	3.92 dBm																									
T1	1		5.691009 GHz	-5.32 dBm	Occ Bw	17.982017982 MHz																							
T2	1		5.708991 GHz	-5.89 dBm																									

Band III

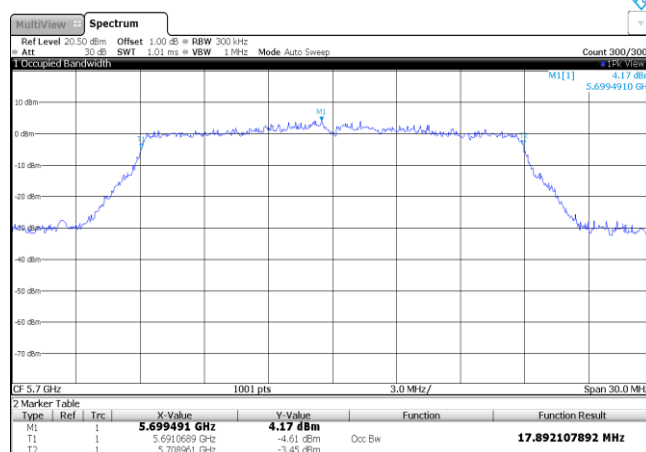
802.11n (HT20)

$$\text{CH}_L$$


Date: 3-JUN-2020 15:58:07

 CH_M 

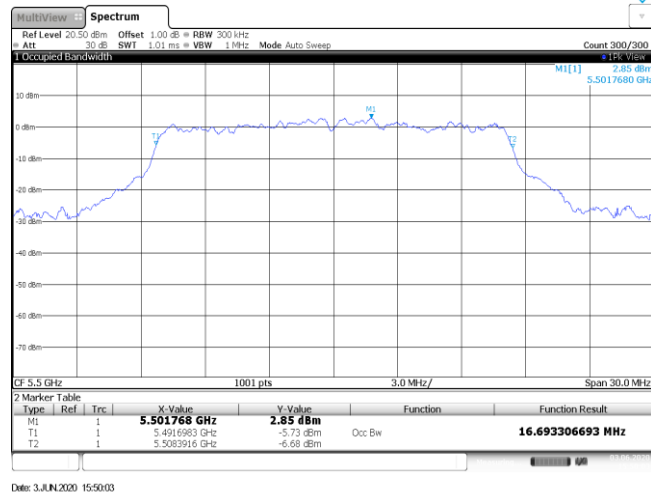
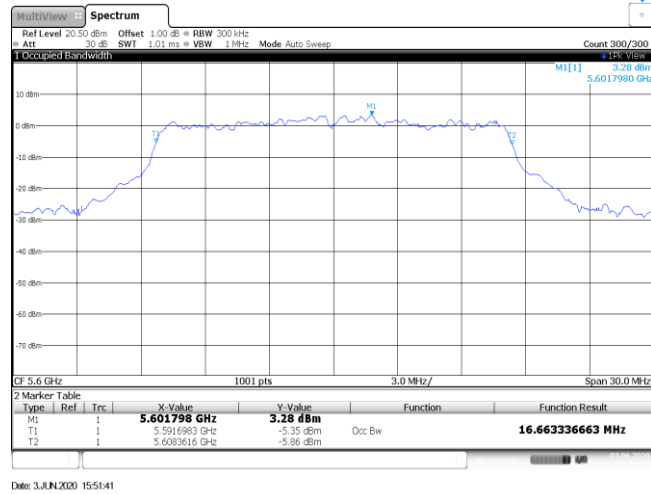
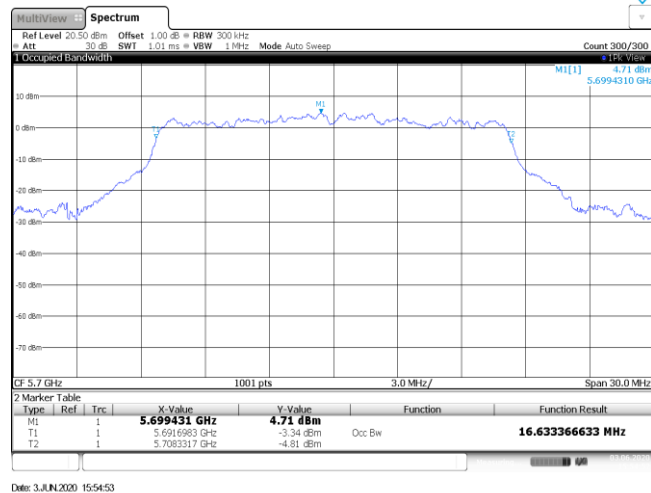
Date: 3 JUN 2020 15:50:50

$$\text{CH}_H$$


Date: 3 JUN 2020 16:01:24

Band III

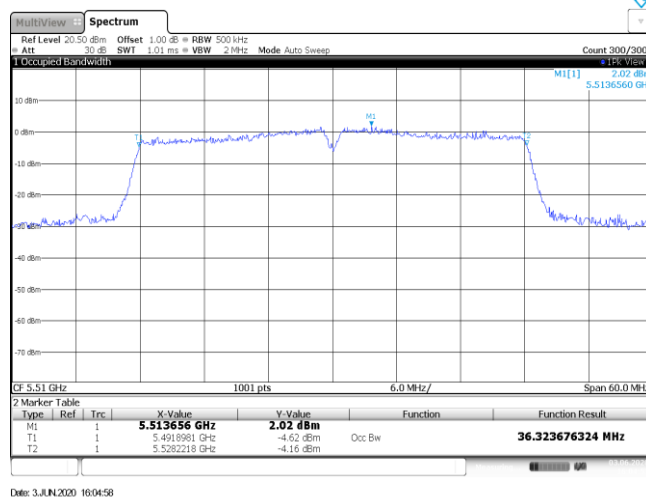
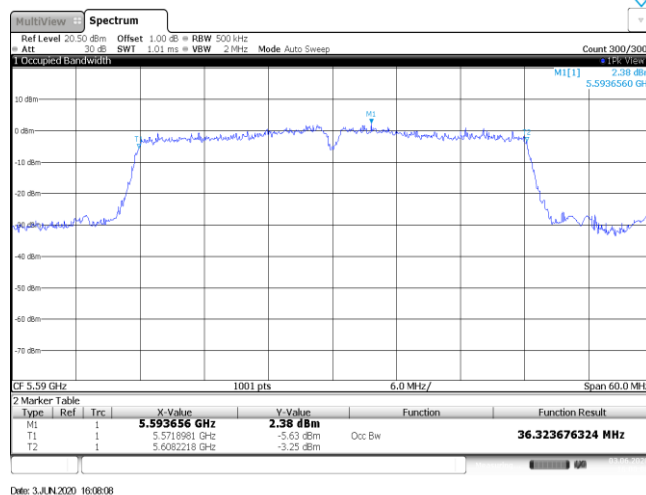
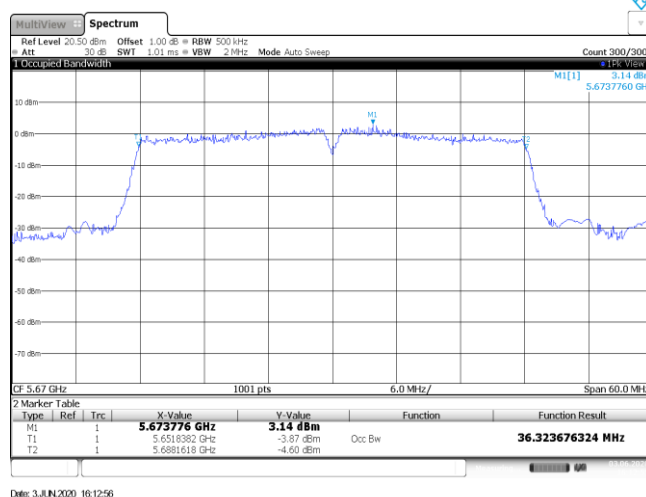
802.11a

CH_LCH_MCH_H

Band III		802.11ac (HT40)
CH _L	MultiView Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 500 kHz Att 30 dB SWI 1.01 ms VBW 2 MHz Mode Auto Sweep Count 300/300 1 Occupied Bandwidth	

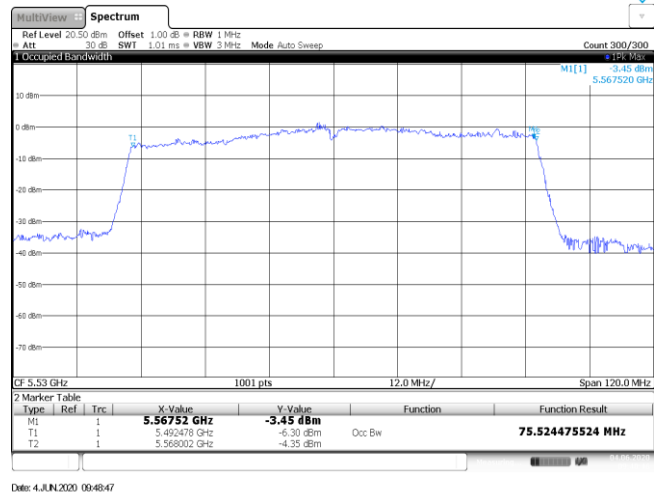
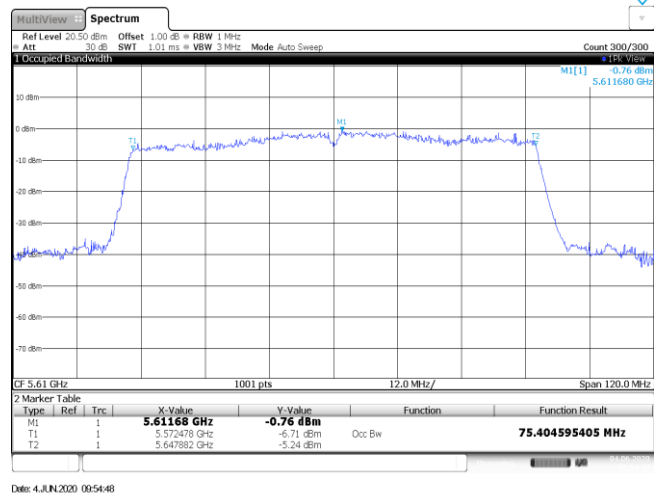
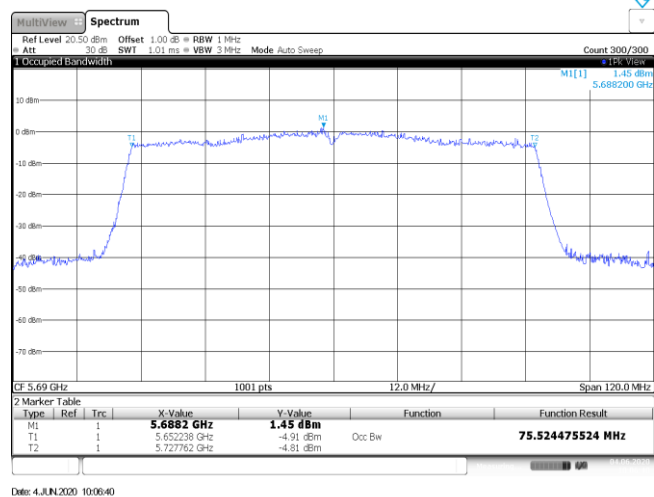
Band III

802.11n (HT40)

$$\text{CH}_L$$

$$\text{CH}_M$$

$$\text{CH}_H$$


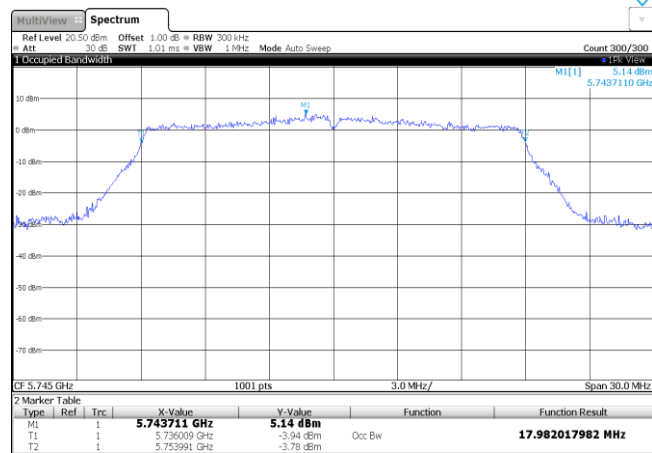
Band III

802.11ac (HT80)

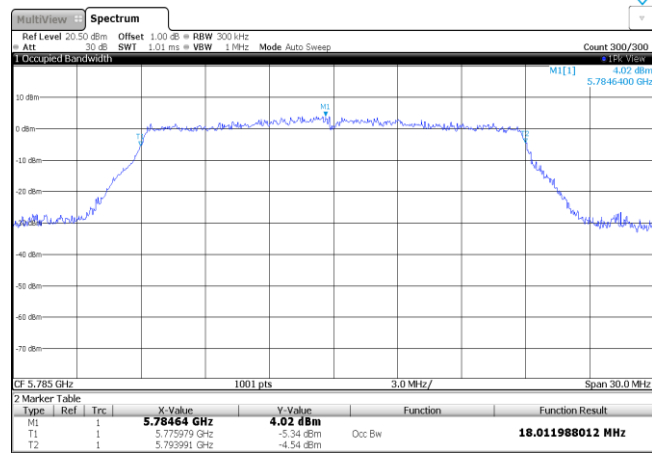
CH_LCH_MCH_H

Band IV

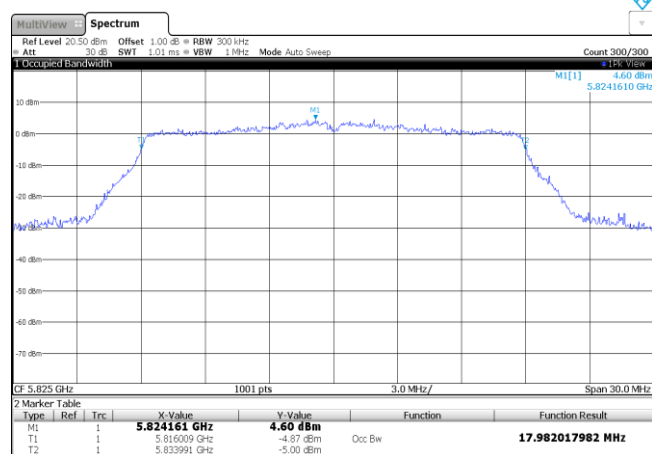
802.11ac (HT20)

$$\text{CH}_L$$


Date: 4 JUN 2020 13:58:11

$$\text{CH}_M$$


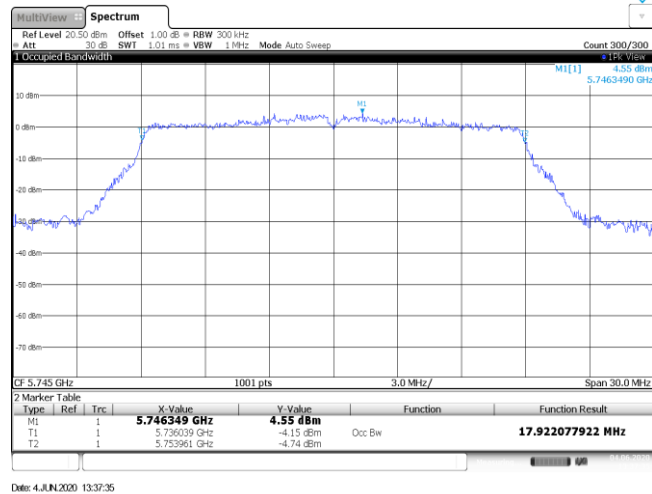
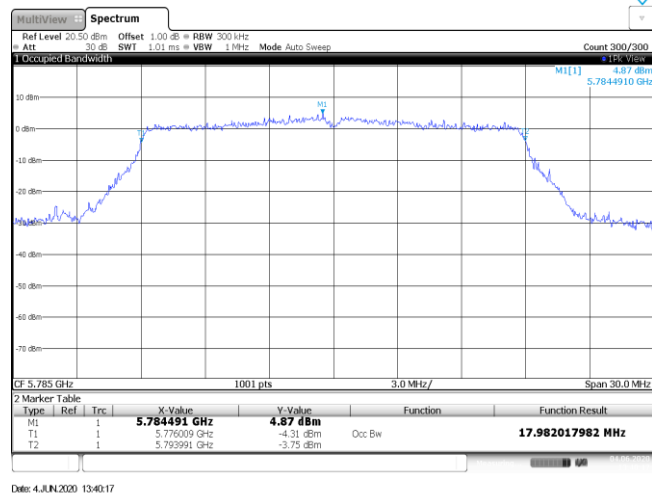
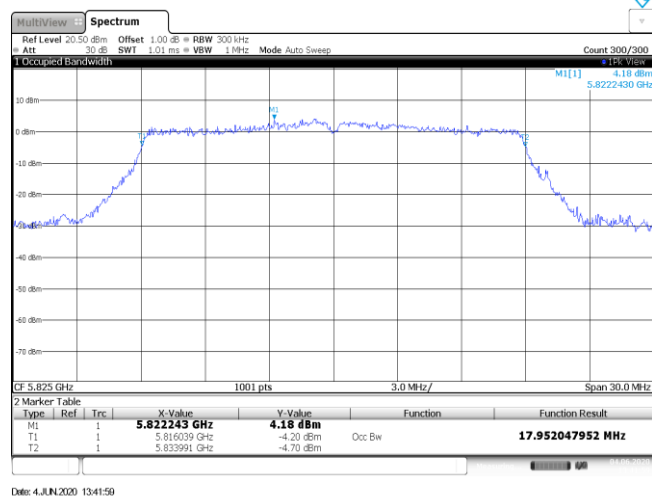
Date: 4 JUN 2020 14:02:32

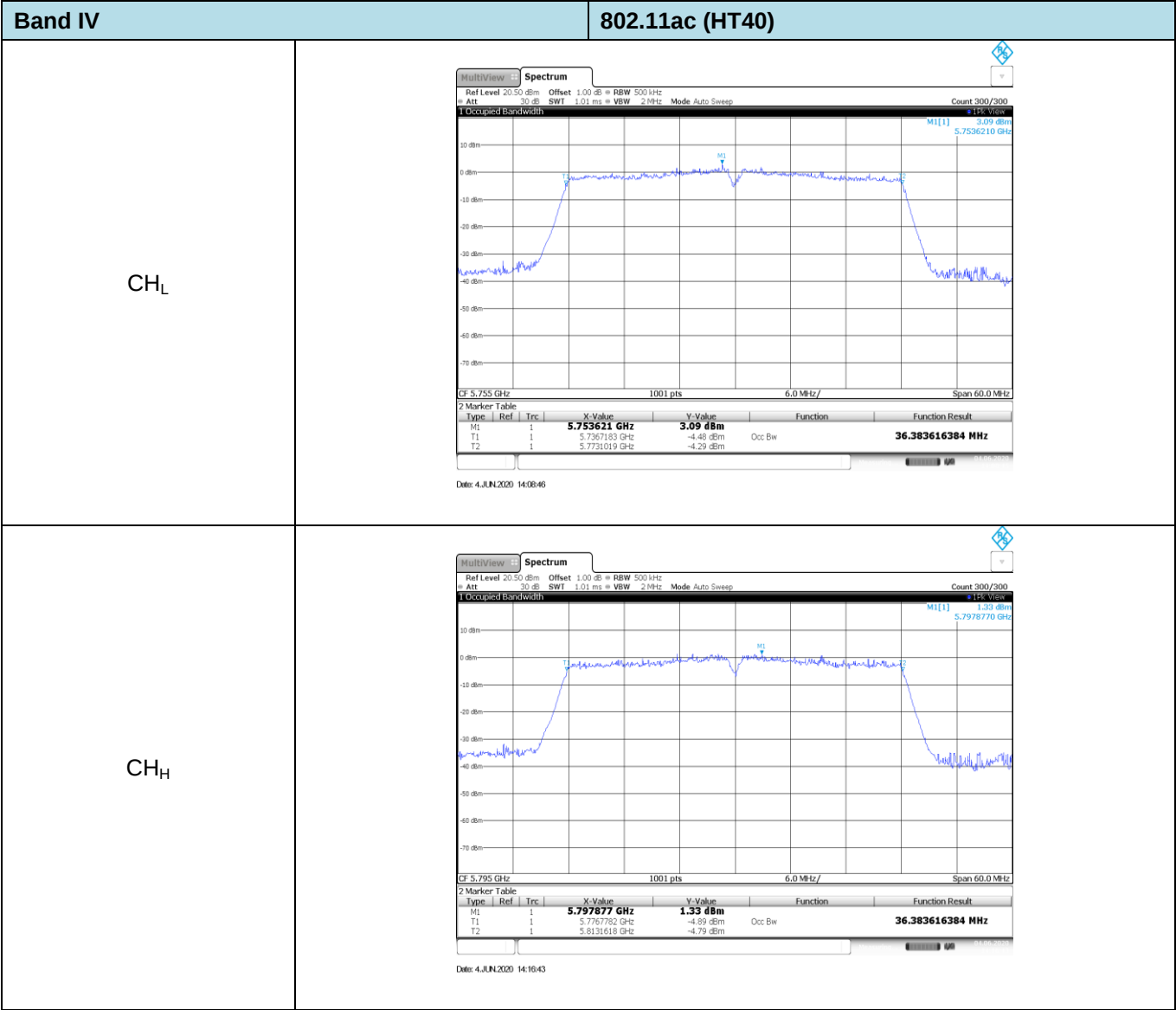
$$\text{CH}_H$$


Date: 4 JUN 2020 14:05:26

Band IV

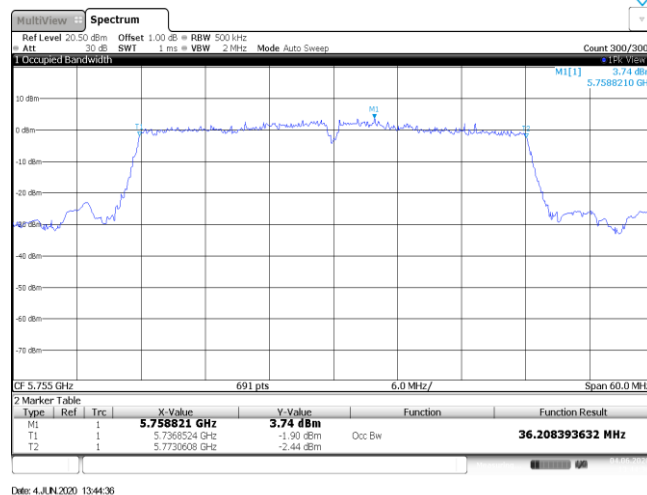
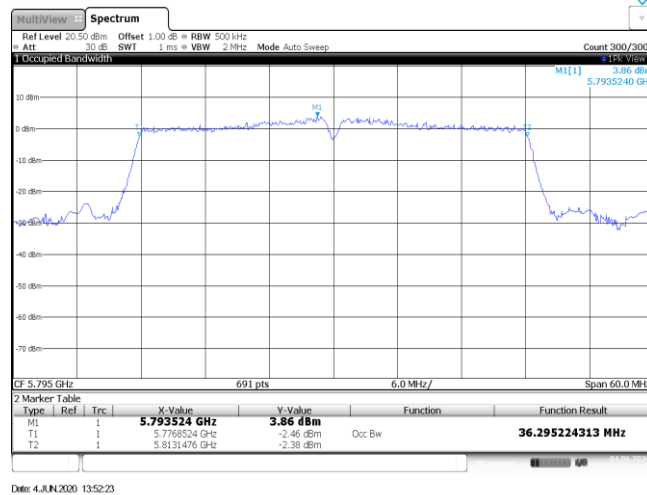
802.11n (HT20)

CH_LCH_MCH_H



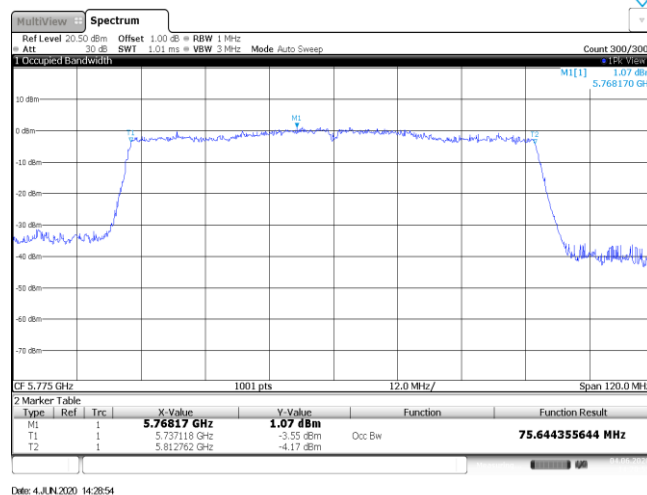
Band IV

802.11n (HT40)

CH_LCH_H

Band IV

802.11ac (HT80)

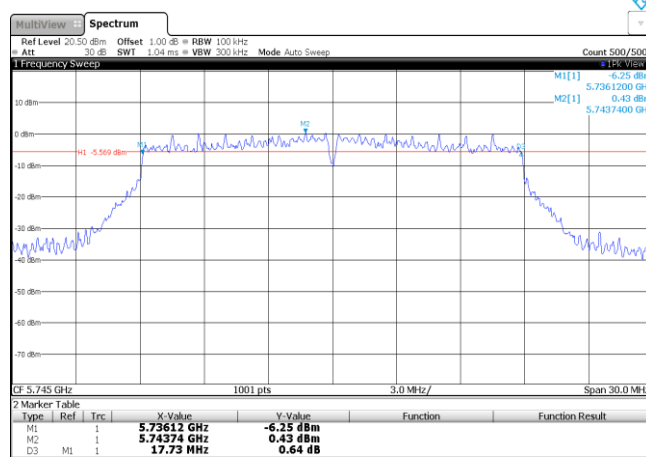
CH_M

Appendix E: 6dB Bandwidth

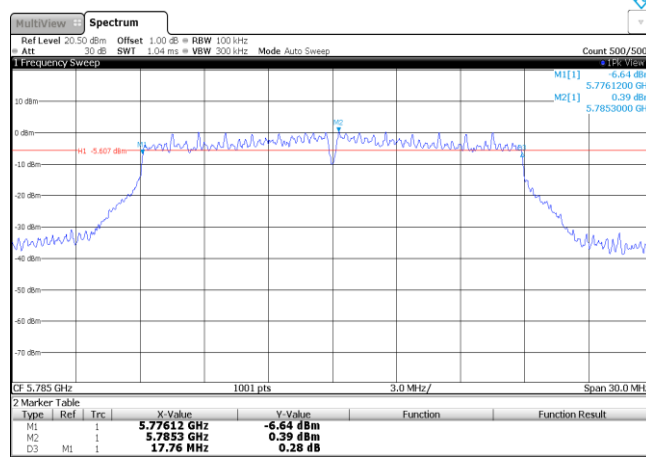
Band	Bandwidth (MHz)	Type	Channel	6dB bandwidth (MHz)	Result
IV	20	802.11ac	CH _L	17.73	Pass
			CH _M	17.76	
			CH _H	17.79	
		802.11n	CH _L	17.73	Pass
			CH _M	17.76	
			CH _H	17.76	
		802.11a	CH _L	16.41	Pass
			CH _M	16.44	
			CH _H	16.41	
	40	802.11ac	CH _L	36.54	Pass
			CH _H	36.54	
		802.11n	CH _L	36.61	Pass
			CH _H	36.52	
	80	802.11ac	CH _M	75.96	Pass

Band IV

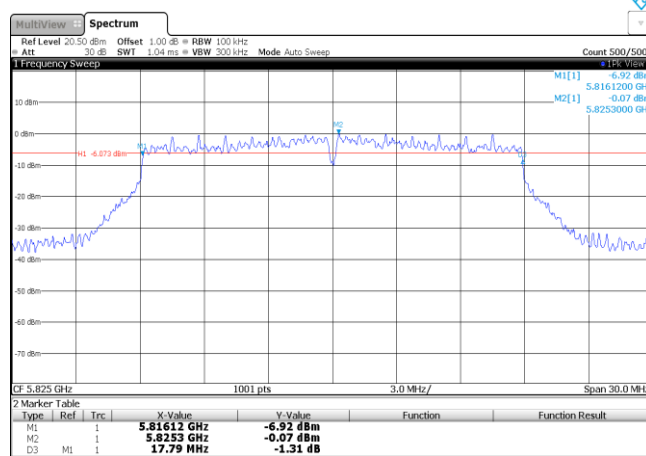
802.11ac (HT20)

$$\text{CH}_L$$


DOI: 4-11N-2020-13-58-20

$$\text{CH}_M$$


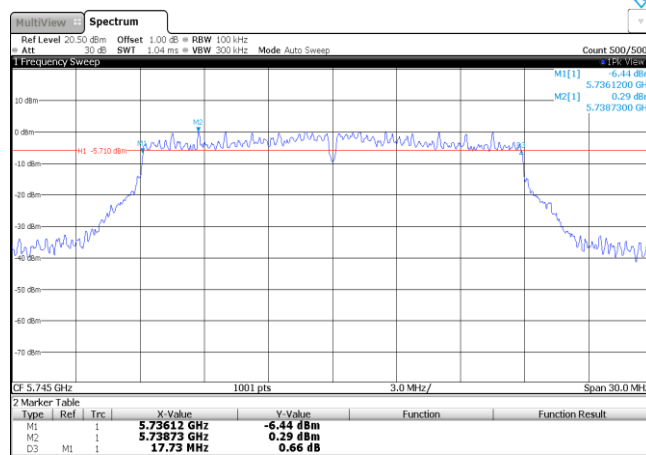
Date: 4 JUN 2020 14:02:41

$$\text{CH}_H$$


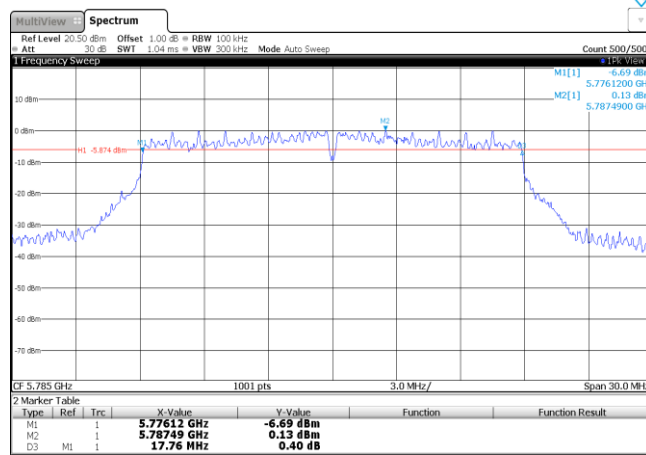
Date: 4 JUN 2020 14:05:35

Band IV

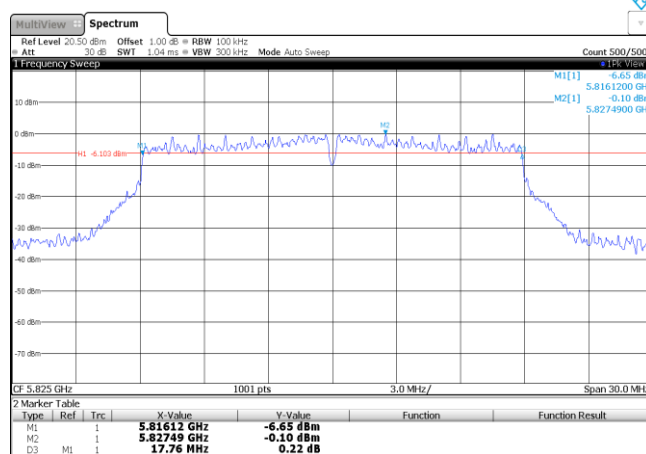
802.11n (HT20)

$$\text{CH}_L$$


Date: 4 JUN 2020 13:37:45

$$\text{CH}_M$$


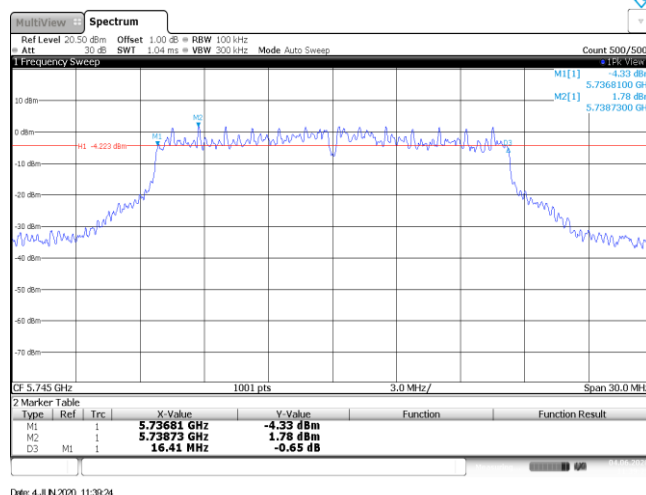
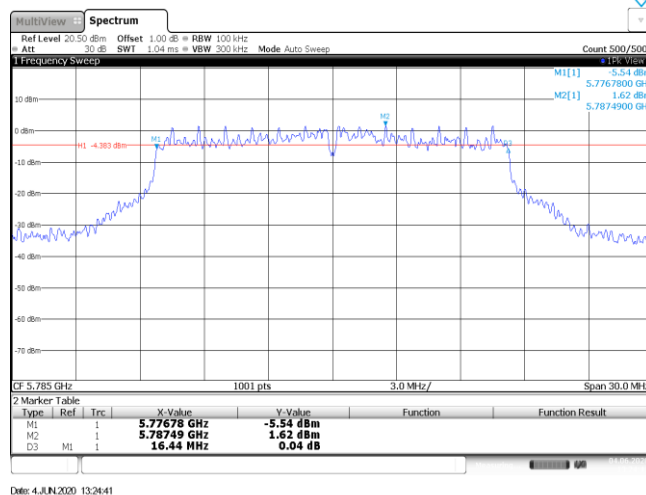
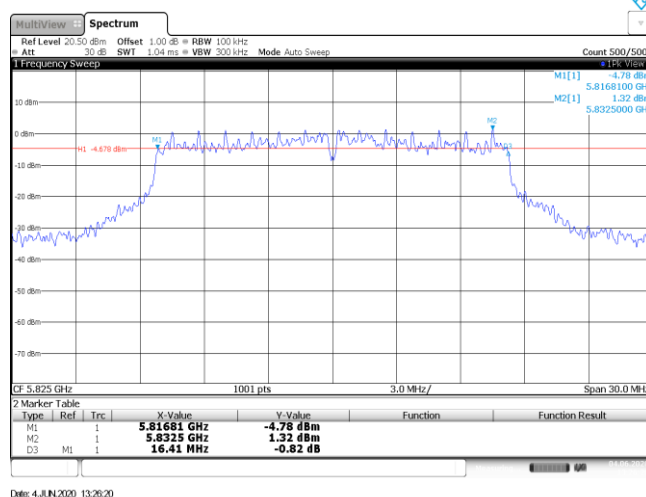
Date: 4 JUN 2020 13:40:27

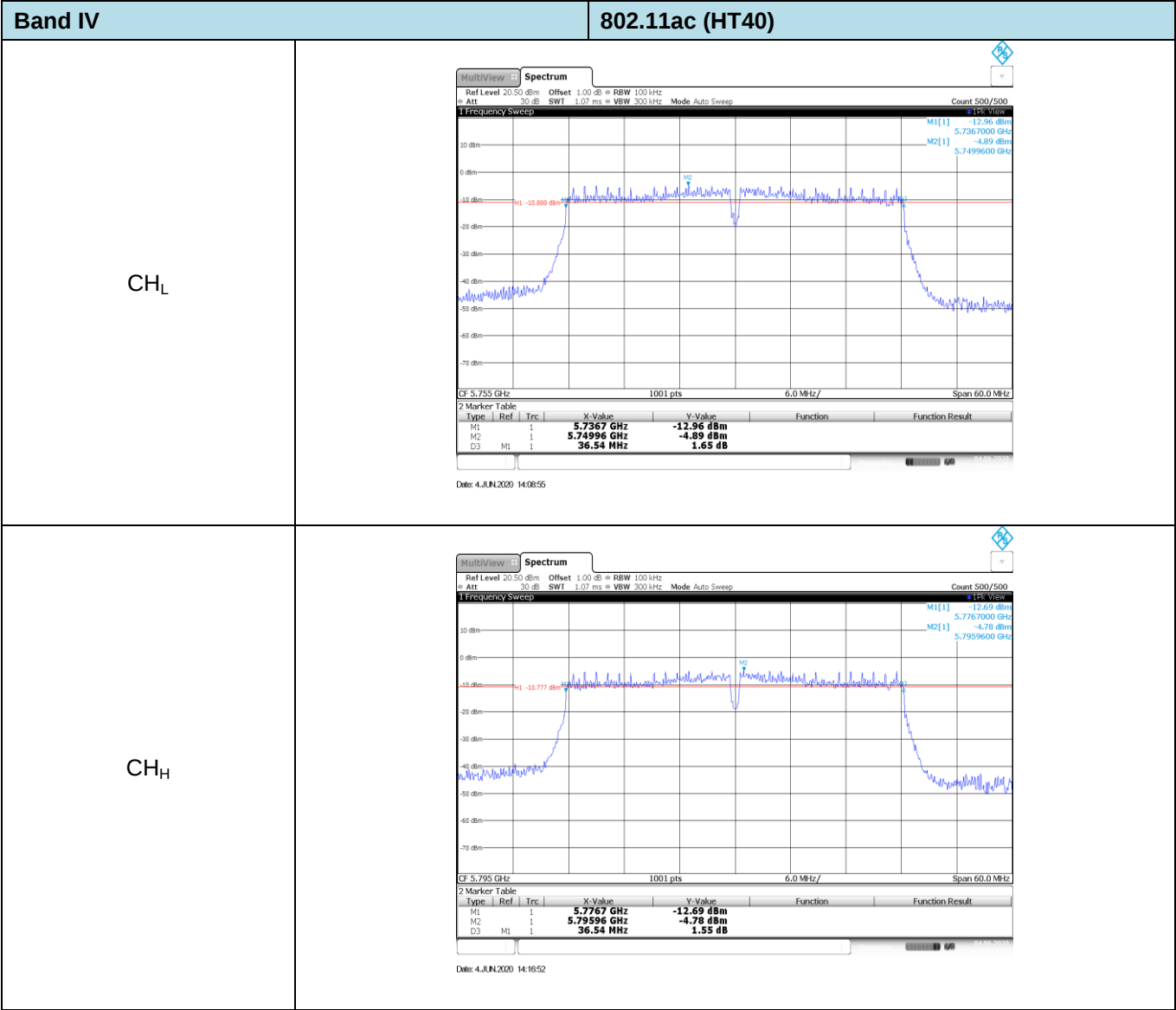
$$\text{CH}_H$$


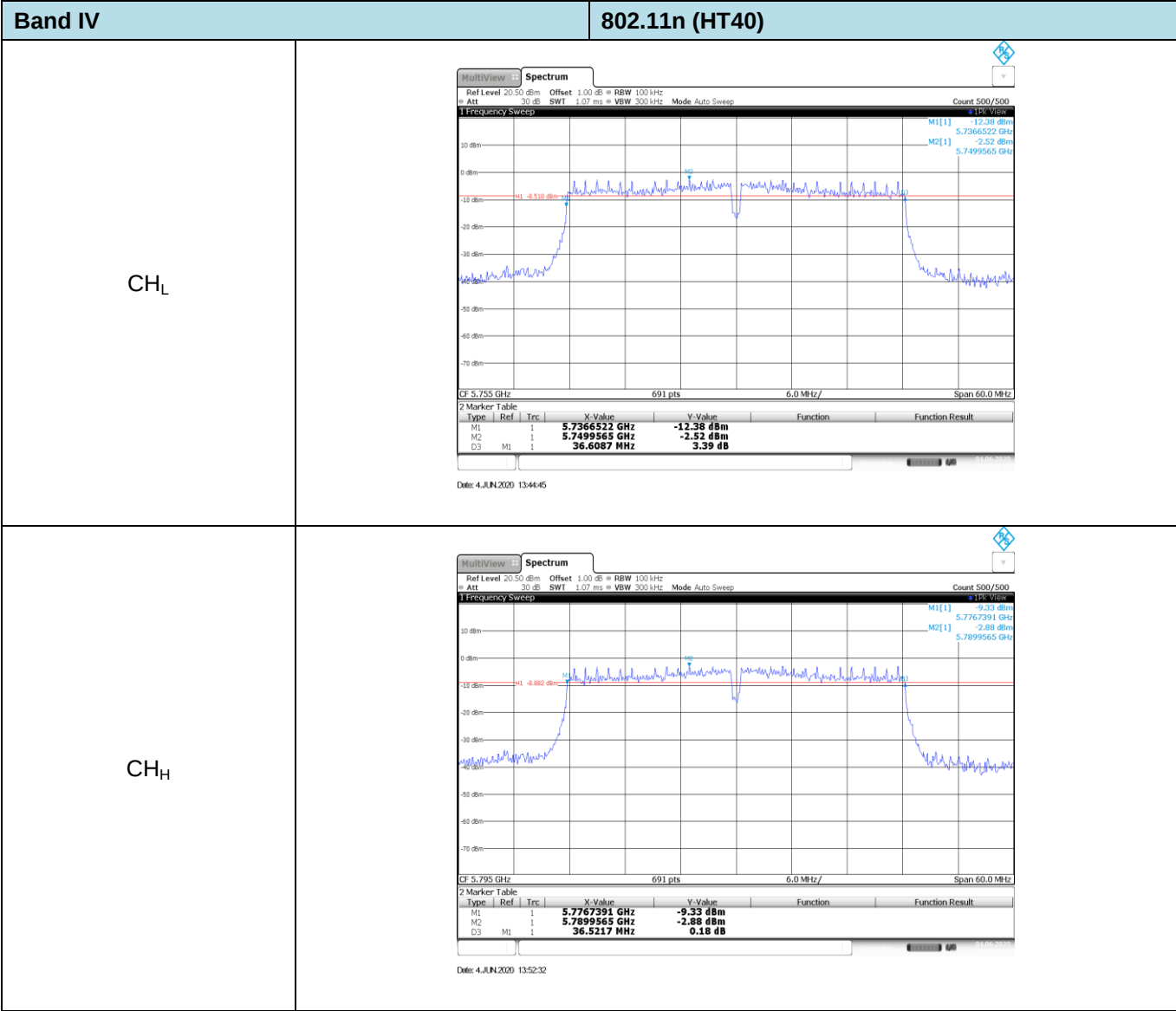
Date: 4 JUN 2020 13:42:08

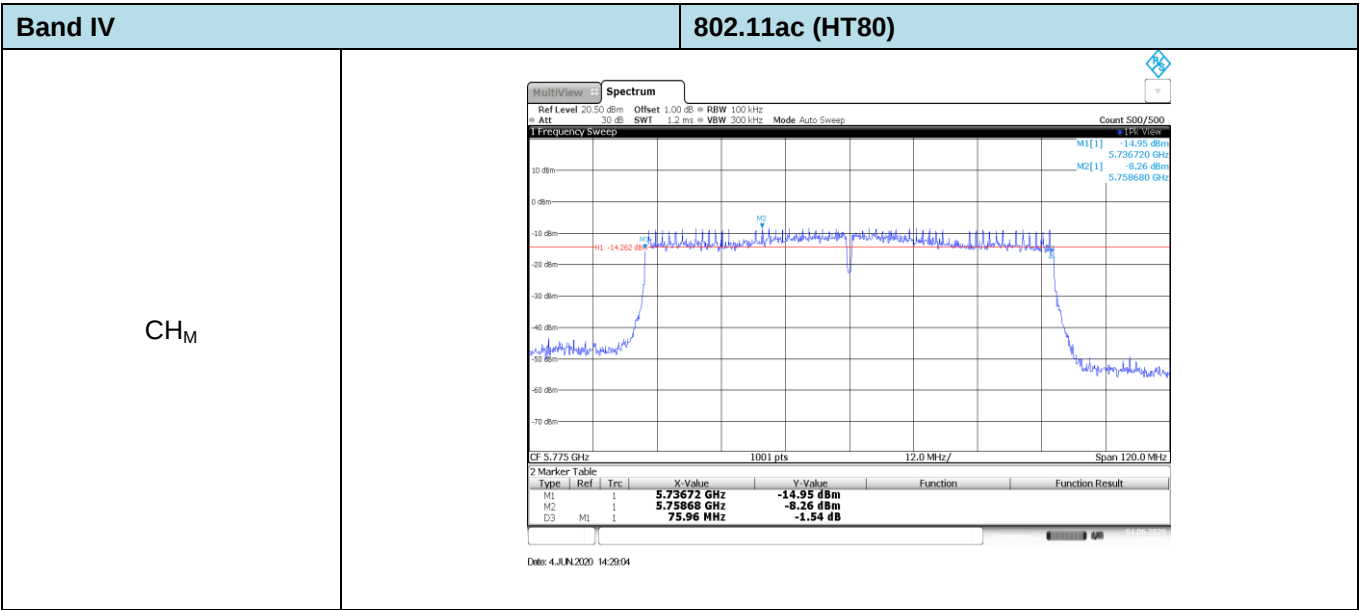
Band IV

802.11a

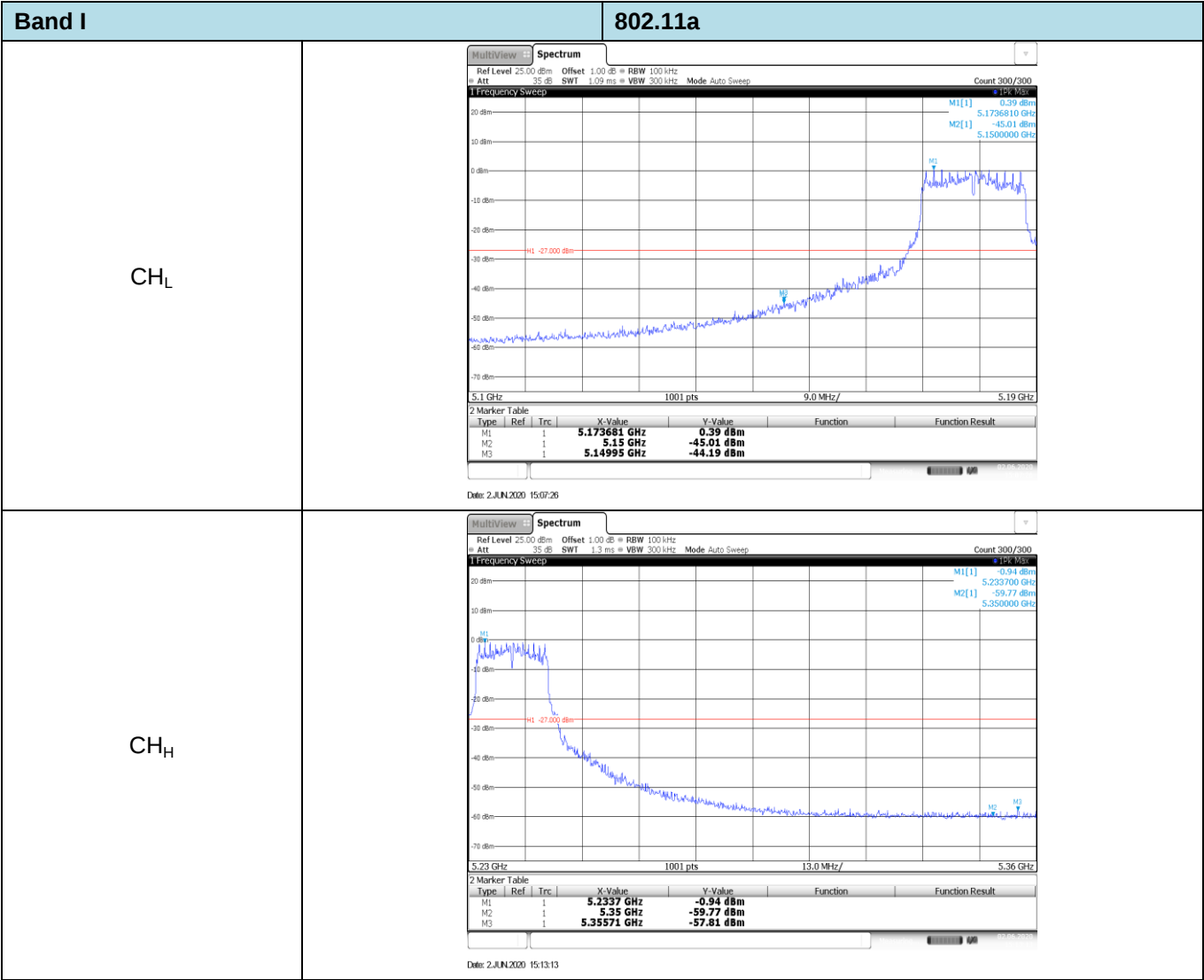
$$\text{CH}_L$$

$$\text{CH}_M$$

$$\text{CH}_H$$


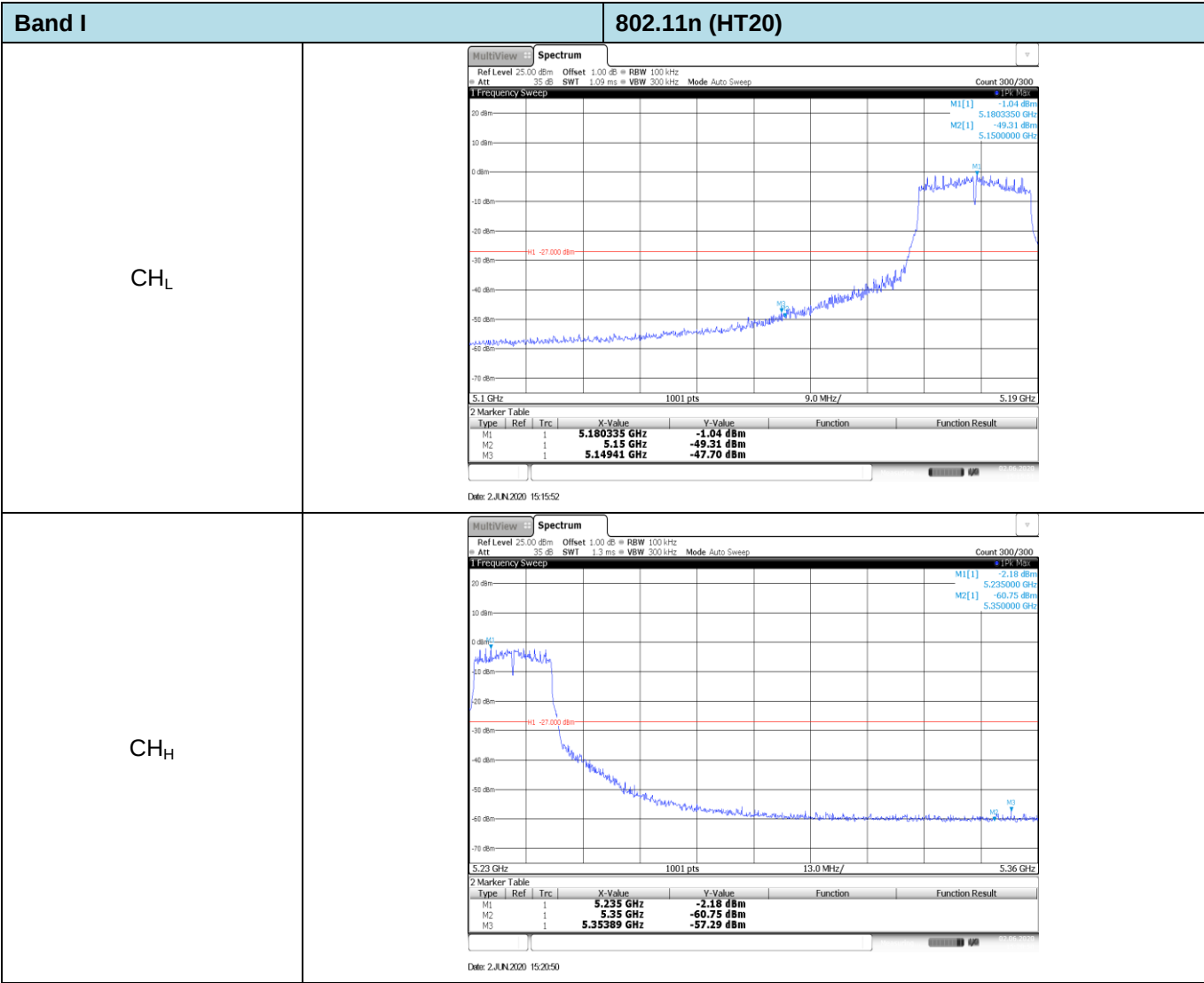


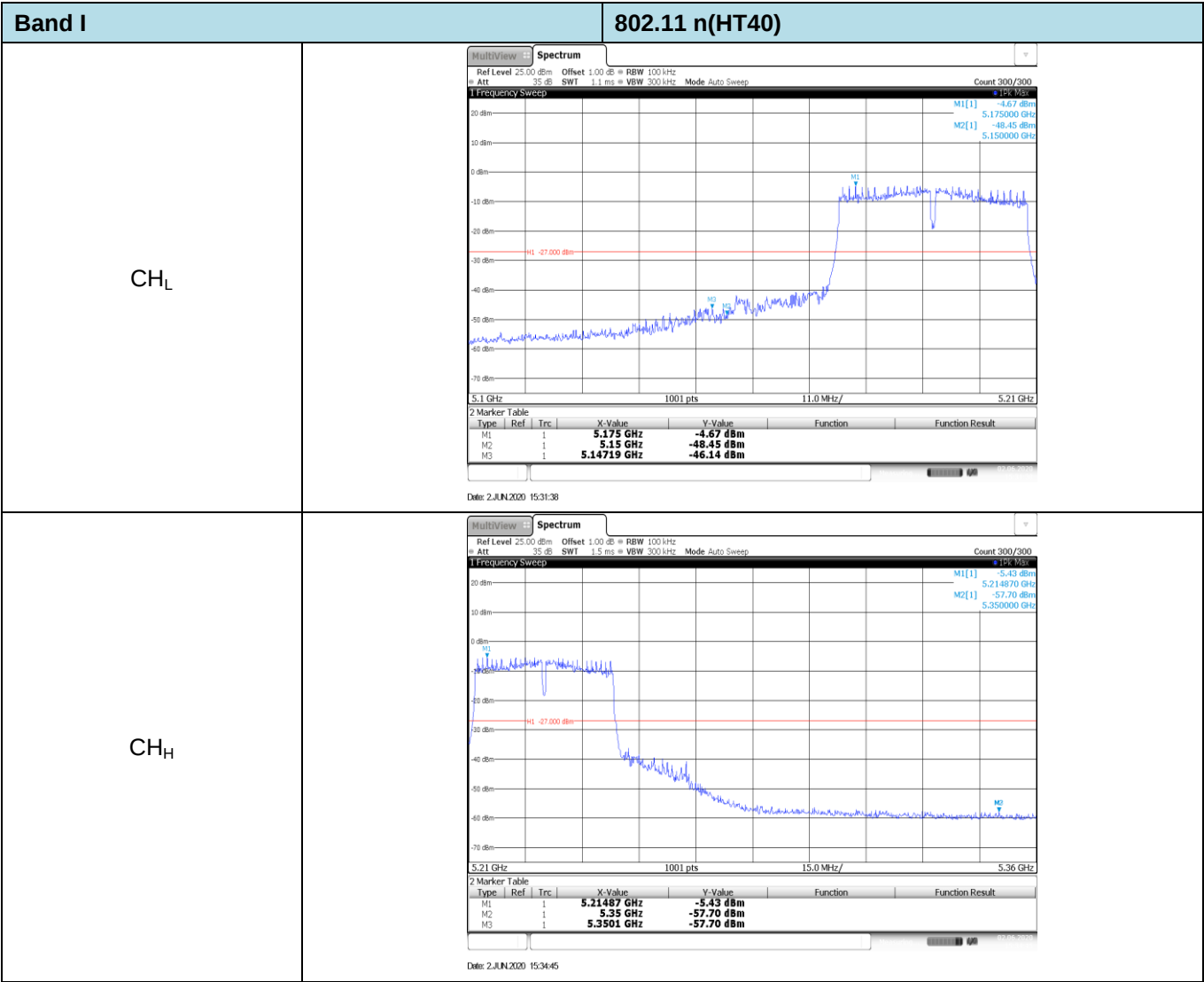


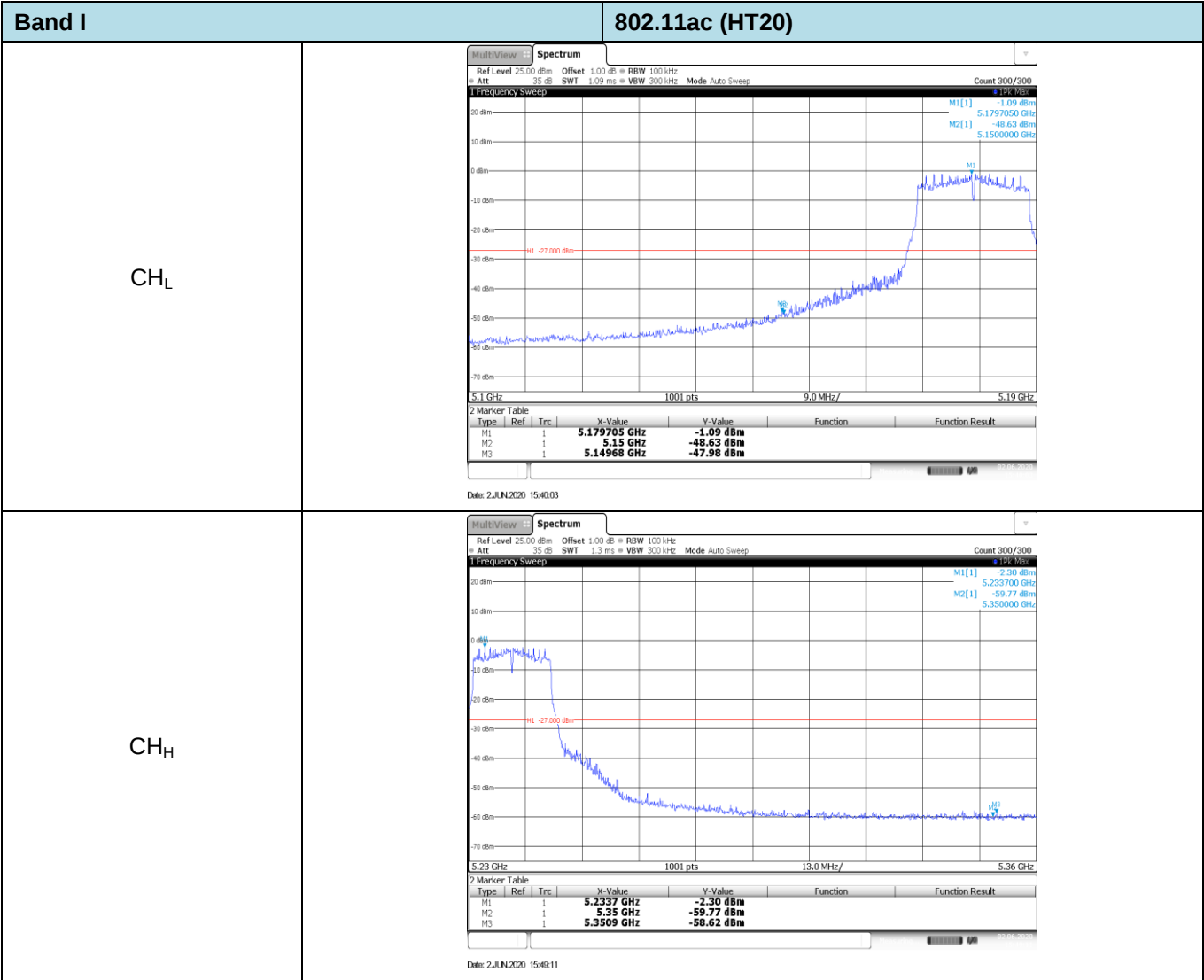


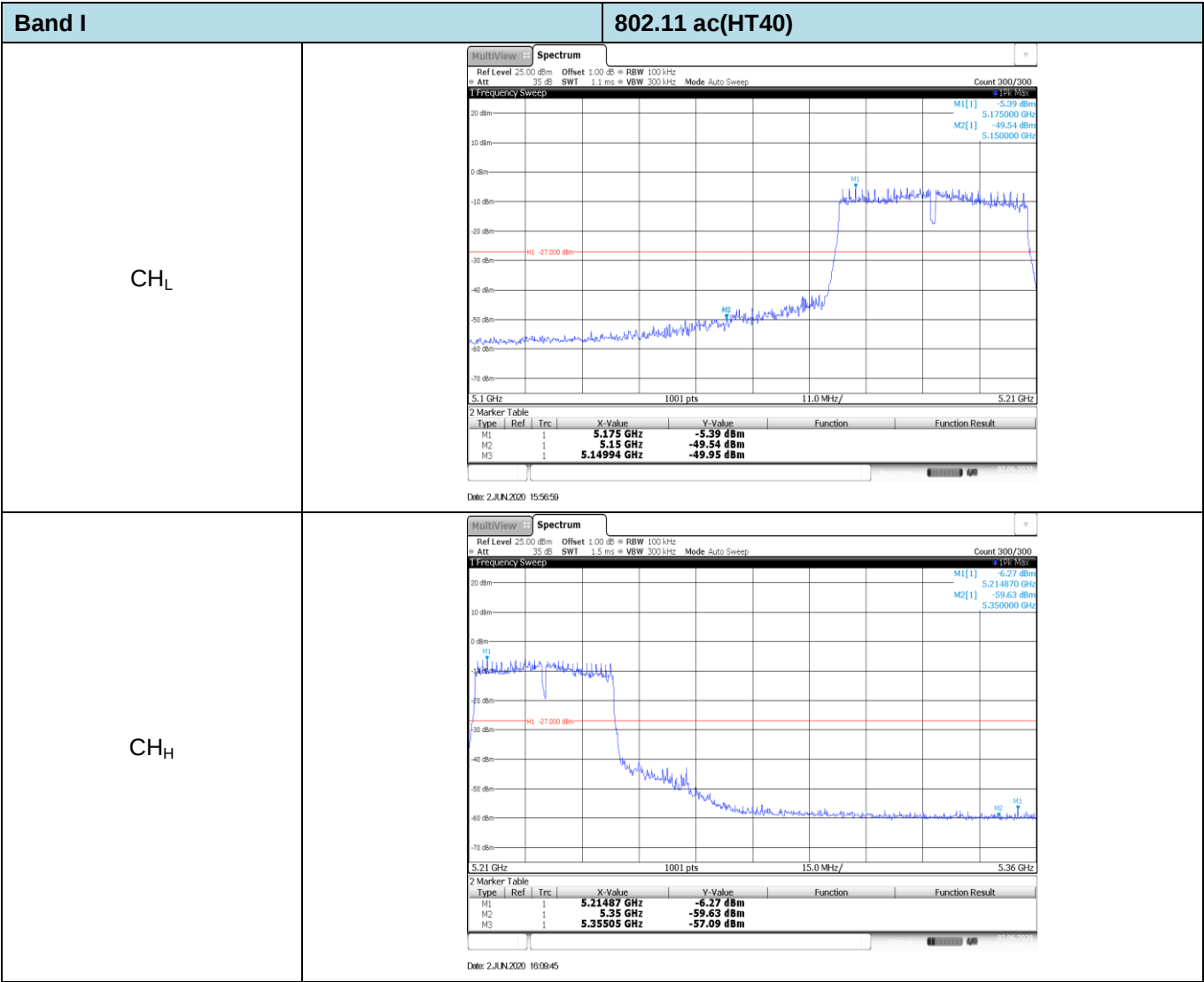
Appendix F: Band edge

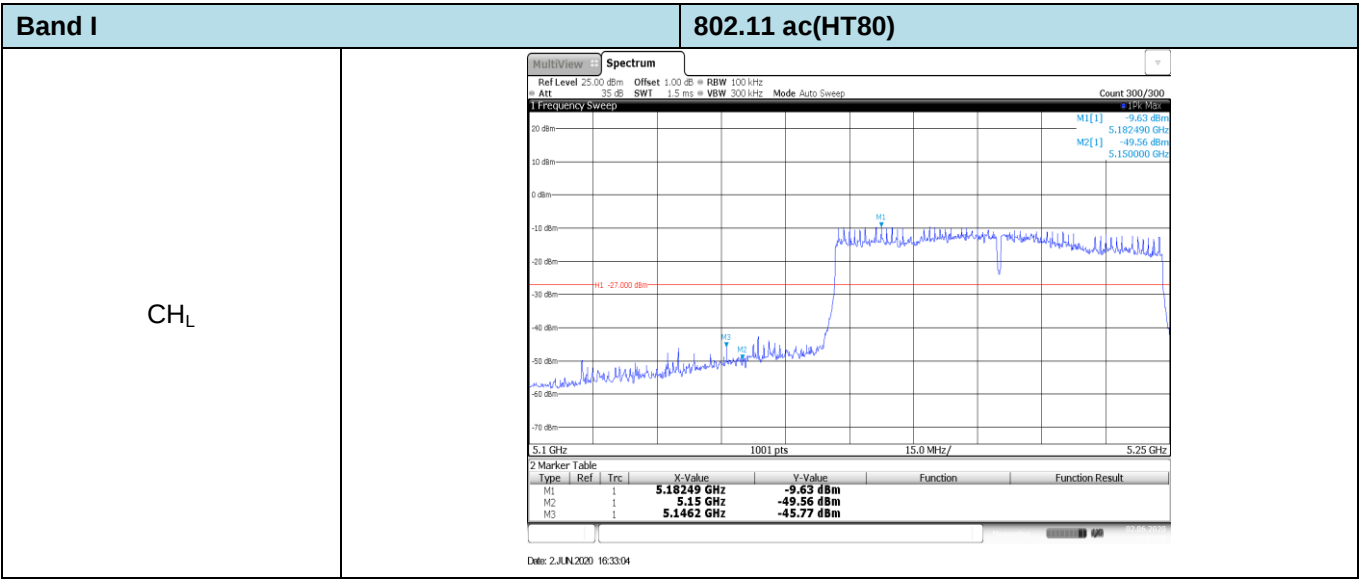


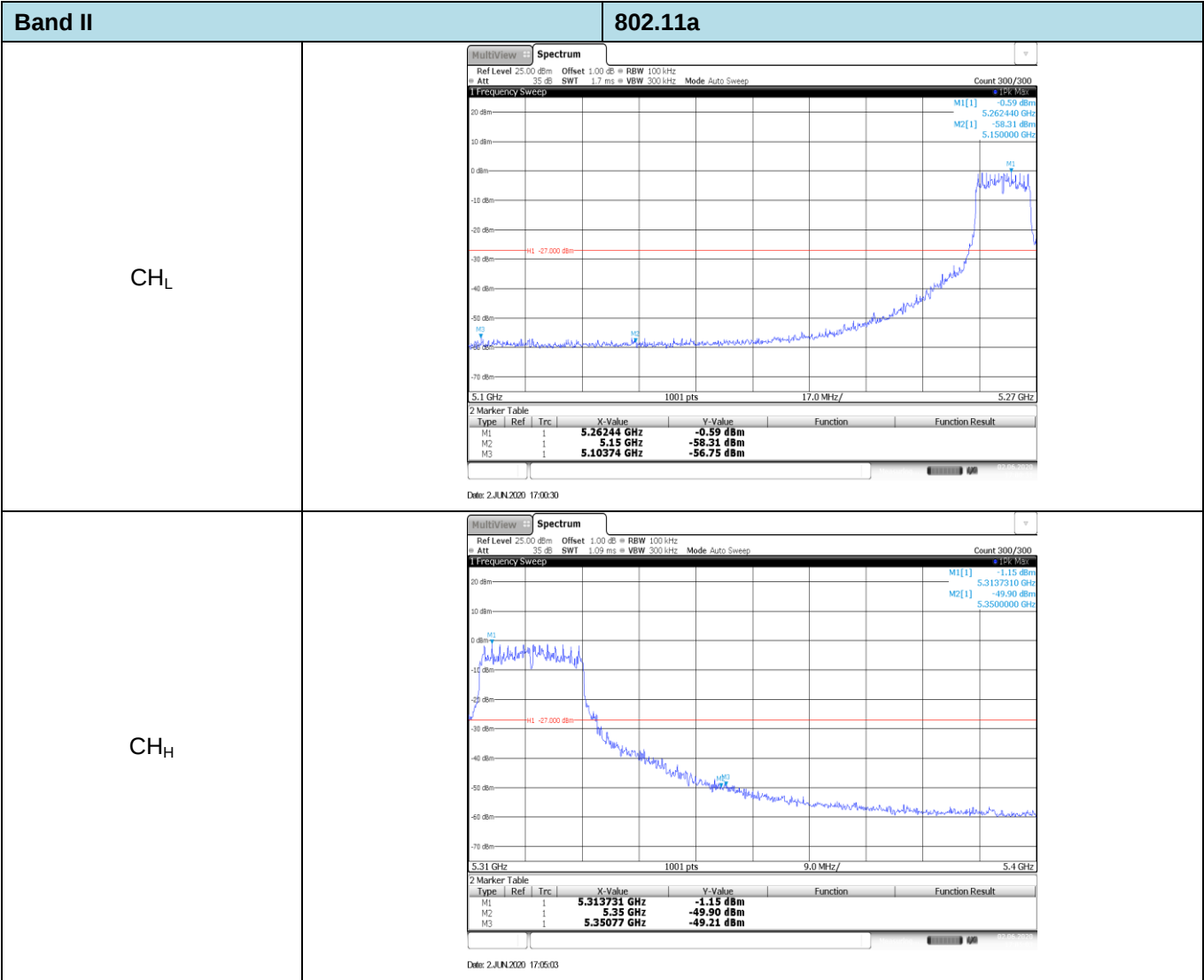


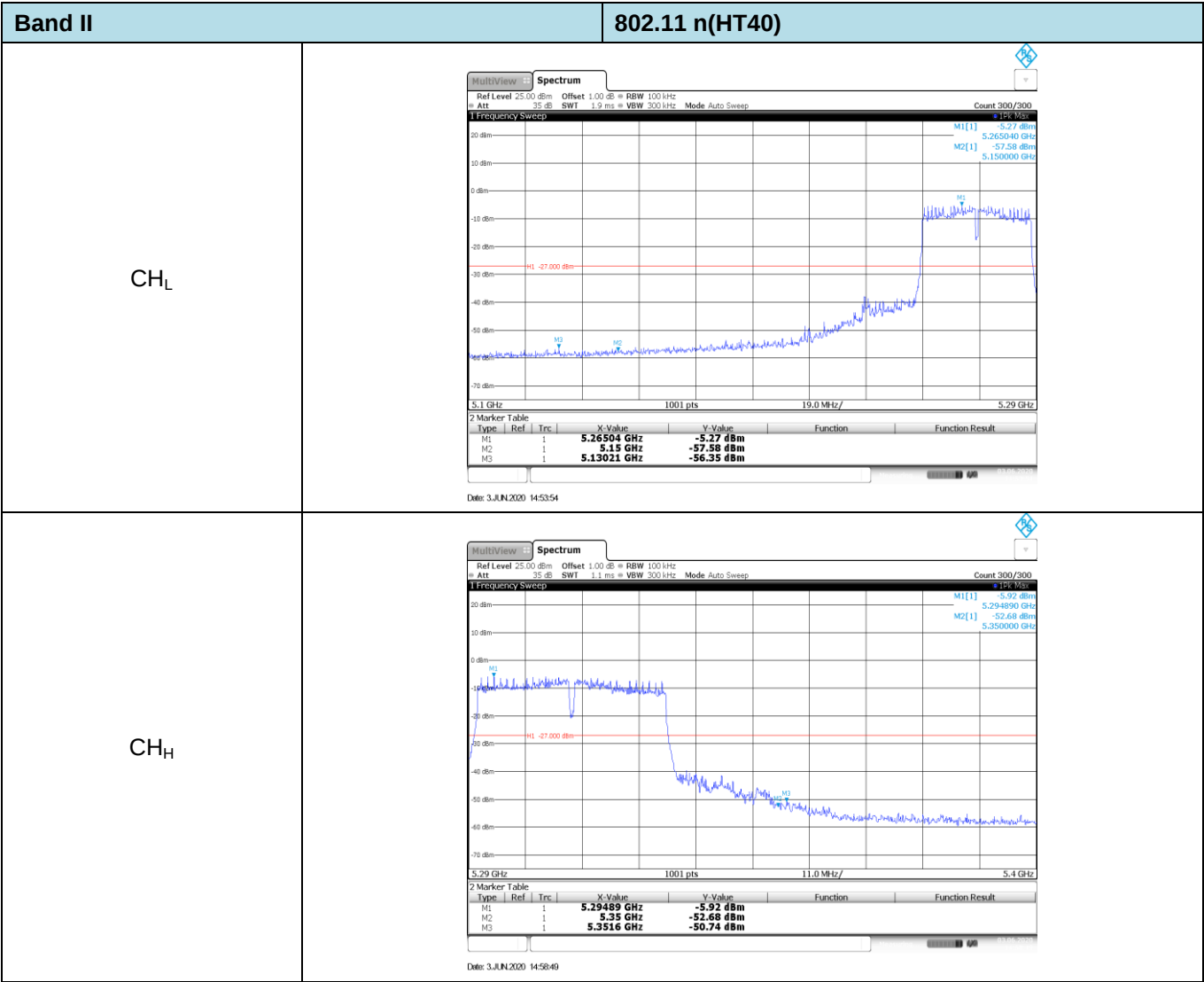












Band II

802.11ac (HT20)

CH_L

Ref Level 25.00 dBm Offset 1.00 dB BW 100 kHz
Att 35 dB SW1 1.7 ms VBW 300 kHz Mode Auto Sweep Count 300/300

1 Frequency Sweep

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

5.1 GHz 1001 pts 17.0 MHz/ 5.27 GHz

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.15973 GHz	-1.77 dBm		
M2	1		5.15 GHz	-59.84 dBm		
M3	1		5.11649 GHz	-57.62 dBm		

Date: 3 JUN 2020 15:08:40

CH_H

Ref Level 25.00 dBm Offset 1.00 dB BW 100 kHz
Att 35 dB SW1 1.09 ms VBW 300 kHz Mode Auto Sweep Count 300/300

1 Frequency Sweep

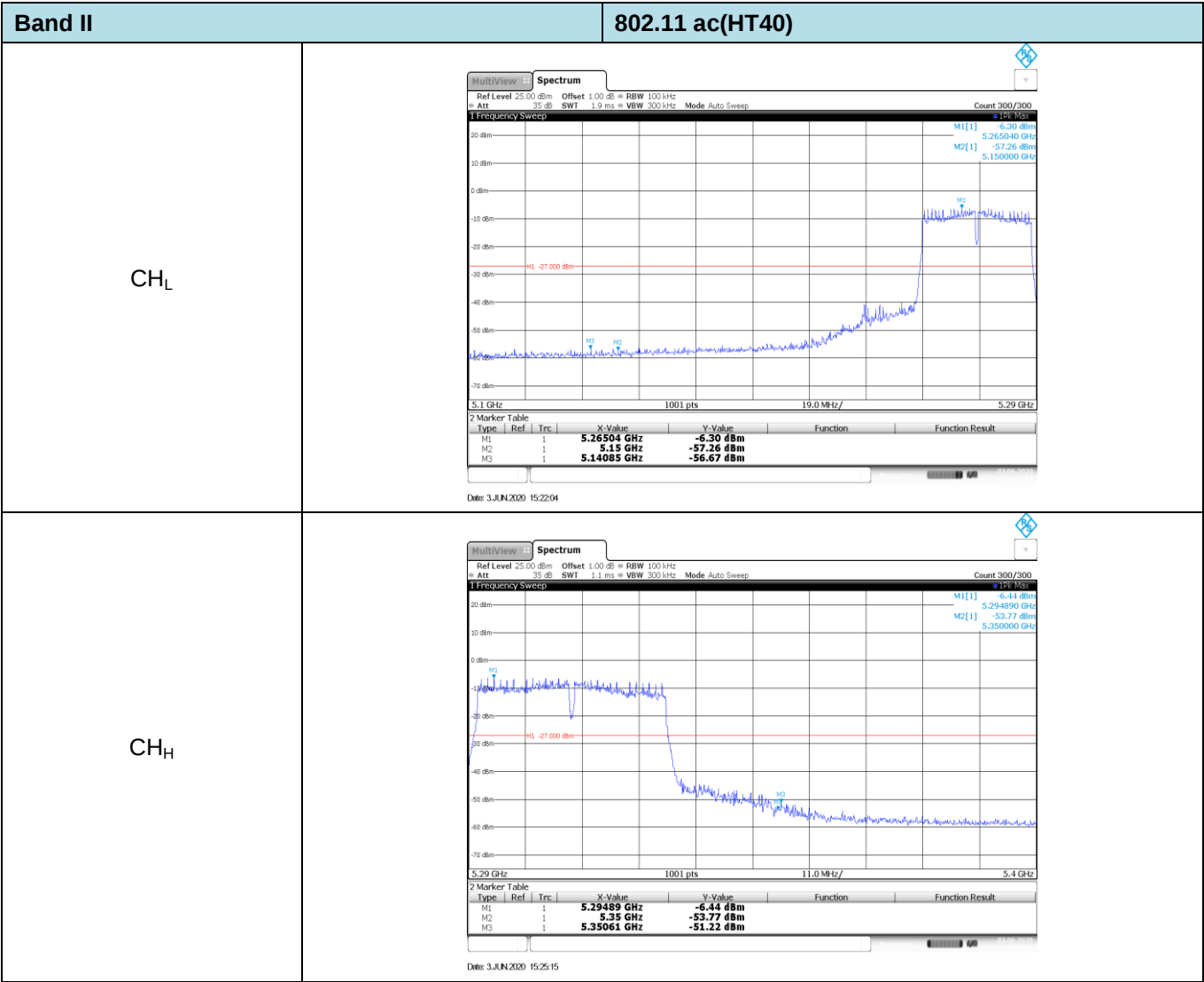
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

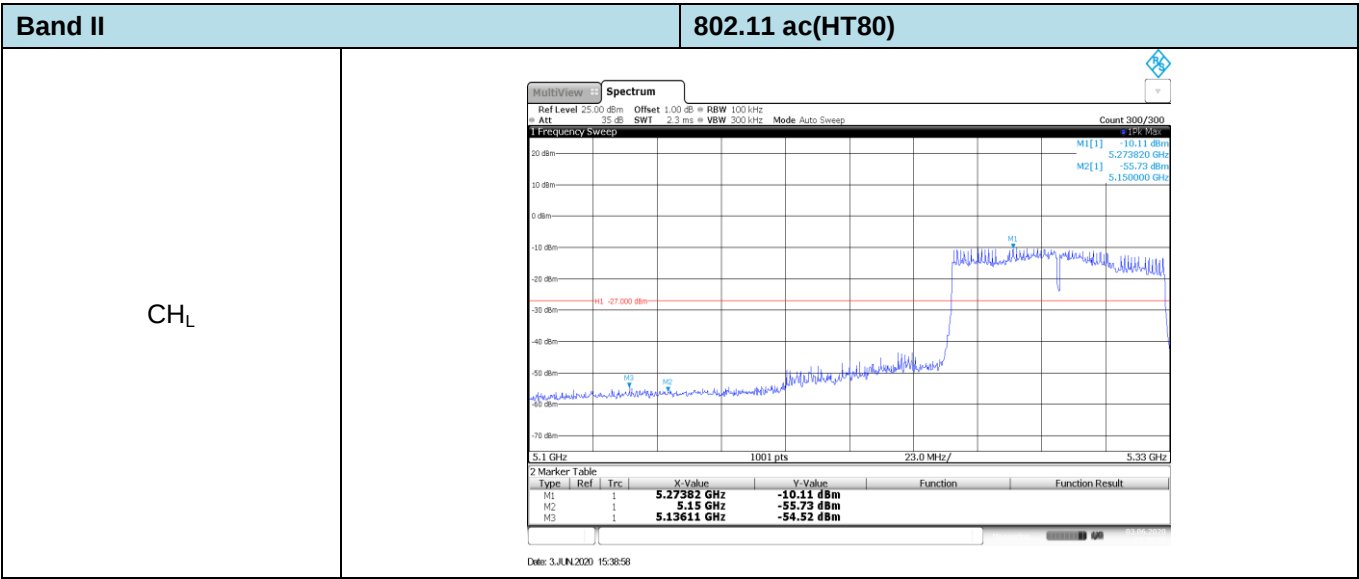
5.31 GHz 1001 pts 9.0 MHz/ 5.4 GHz

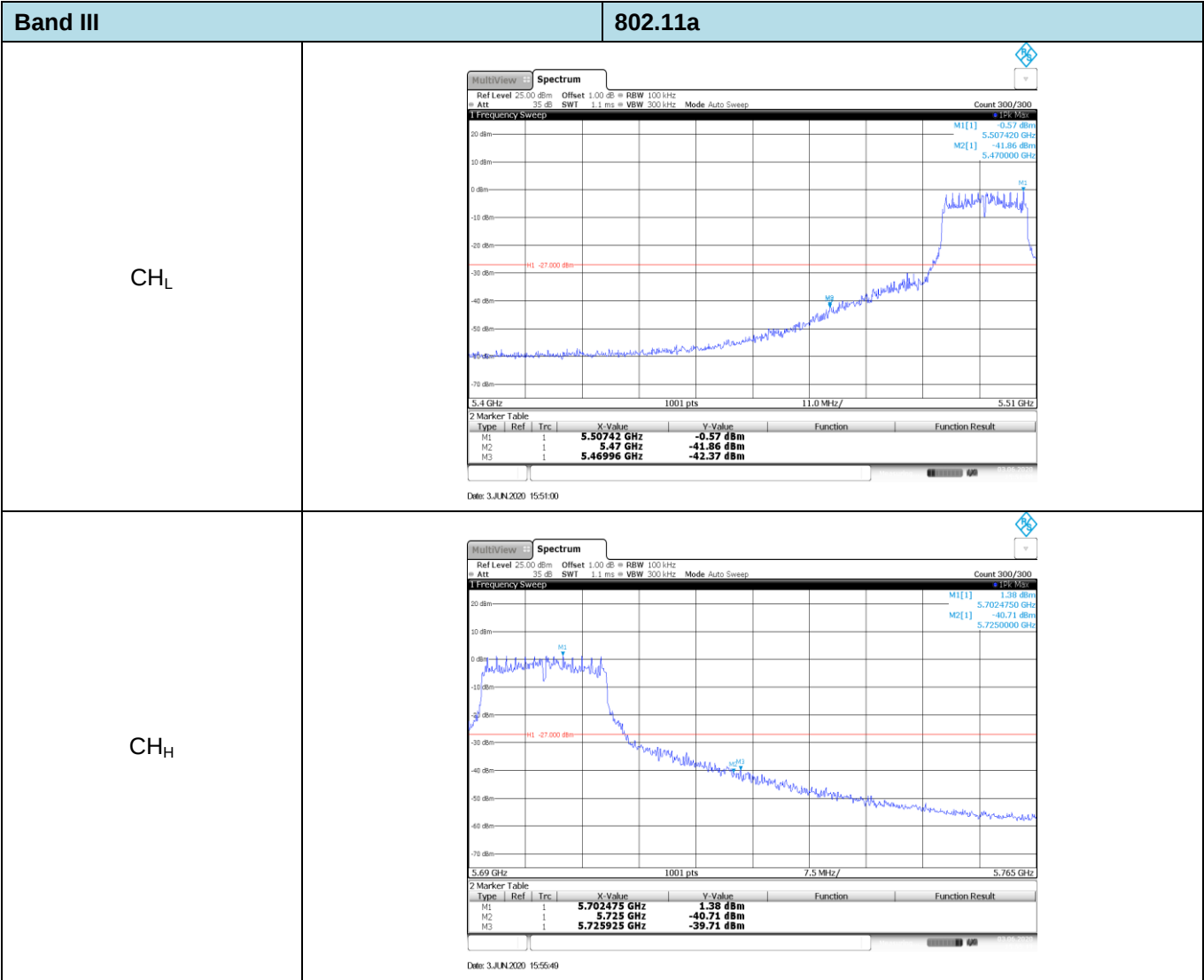
2 Marker Table

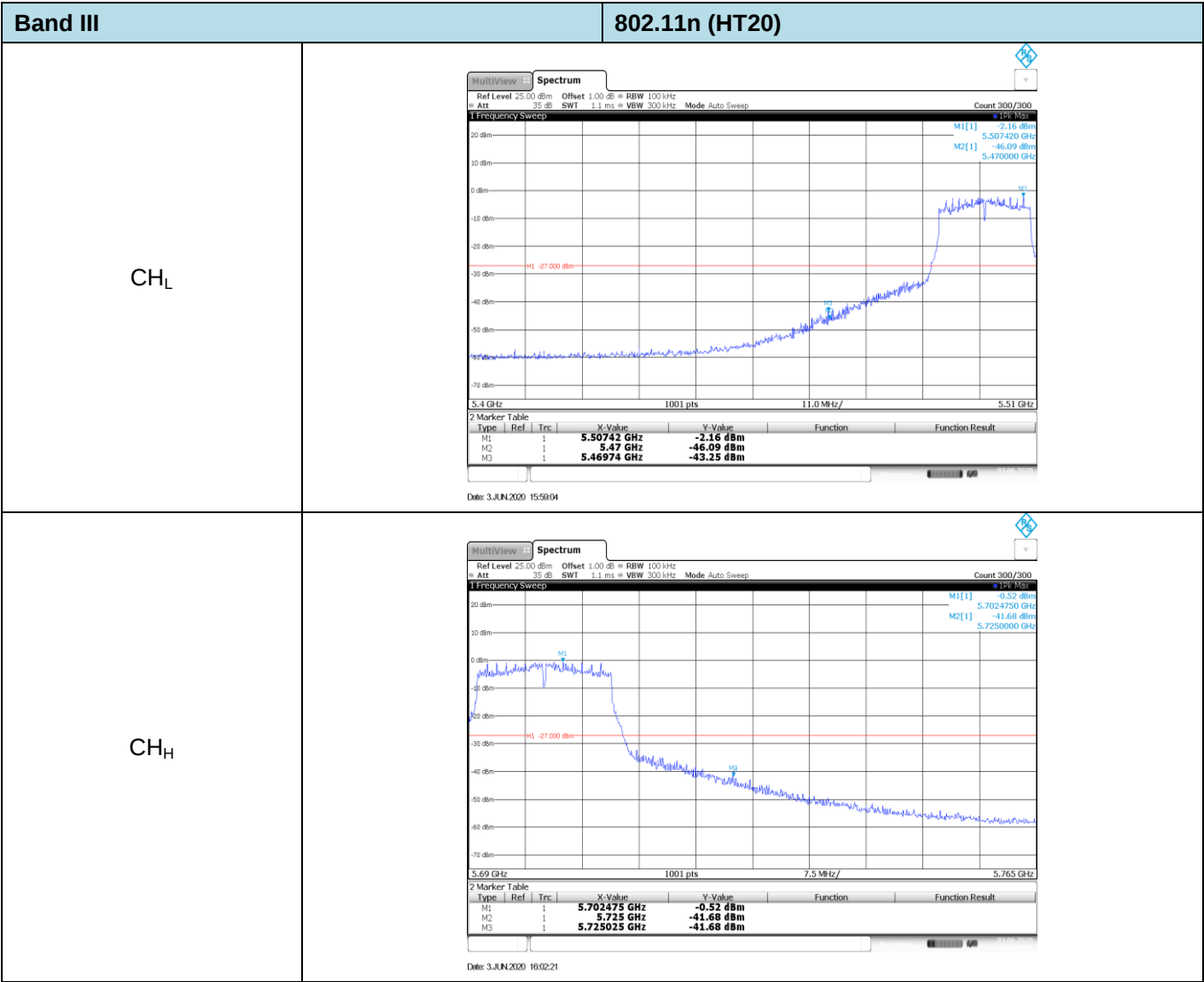
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.313731 GHz	-2.82 dBm		
M2	1		5.35 GHz	-51.95 dBm		
M3	1		5.35068 GHz	-51.49 dBm		

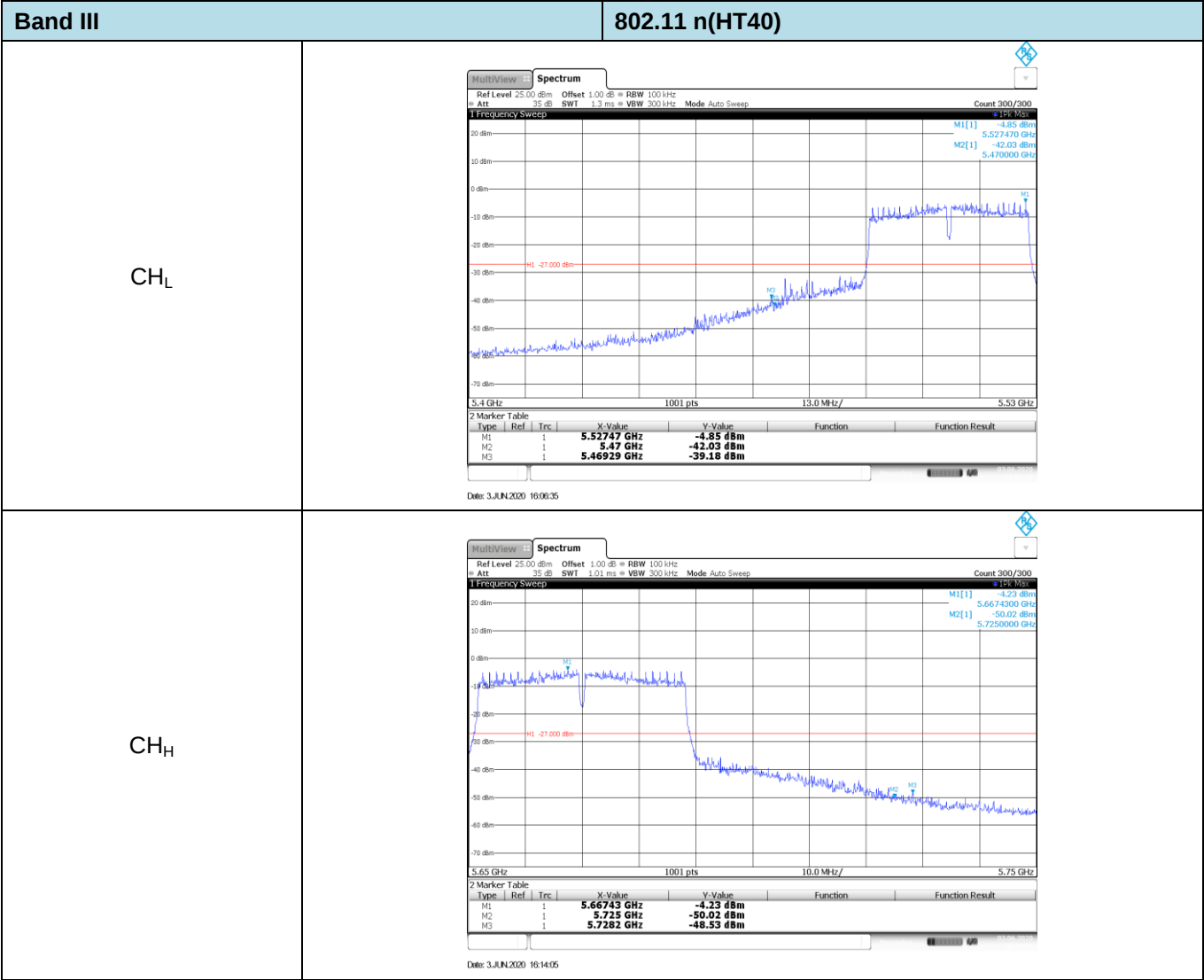
Date: 3 JUN 2020 15:14:47

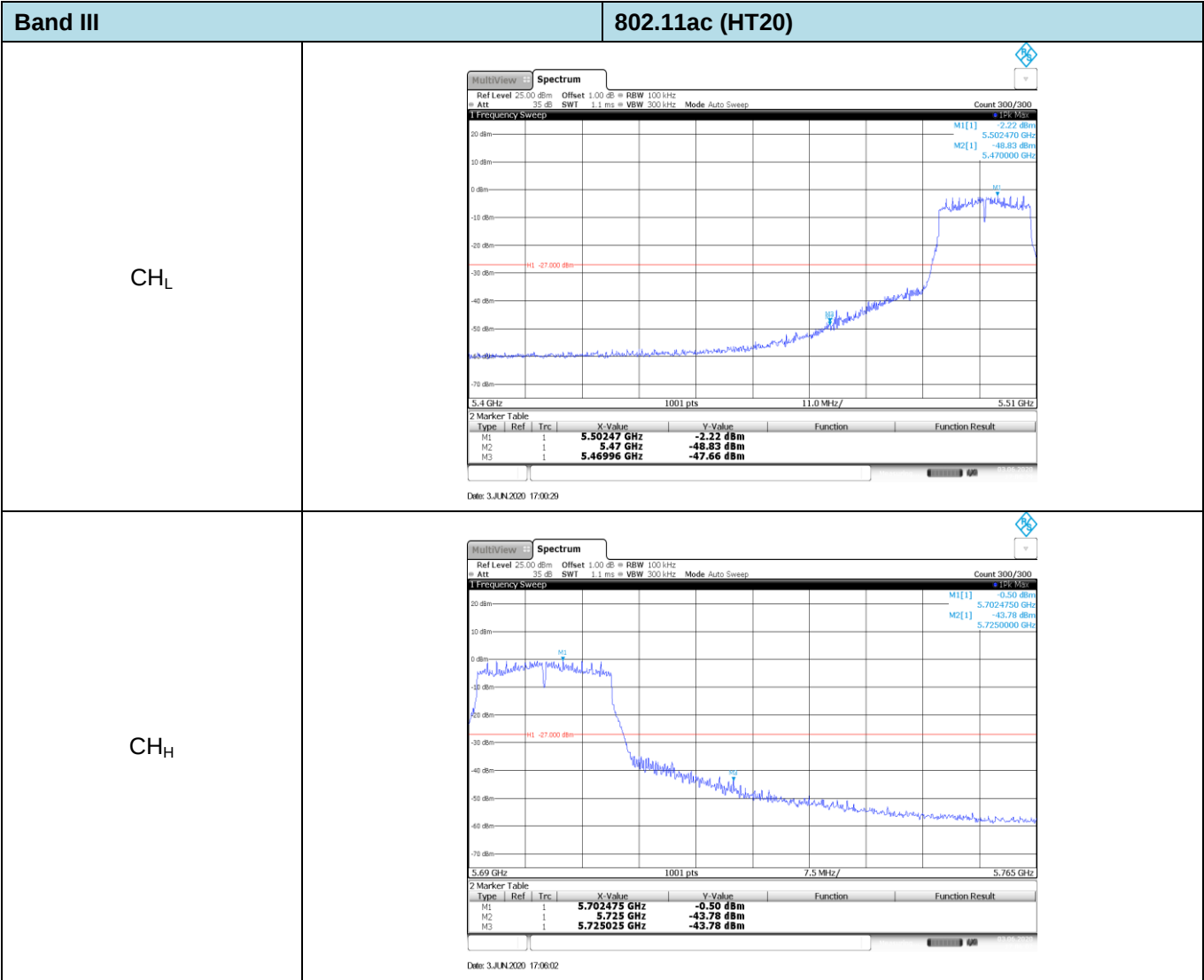


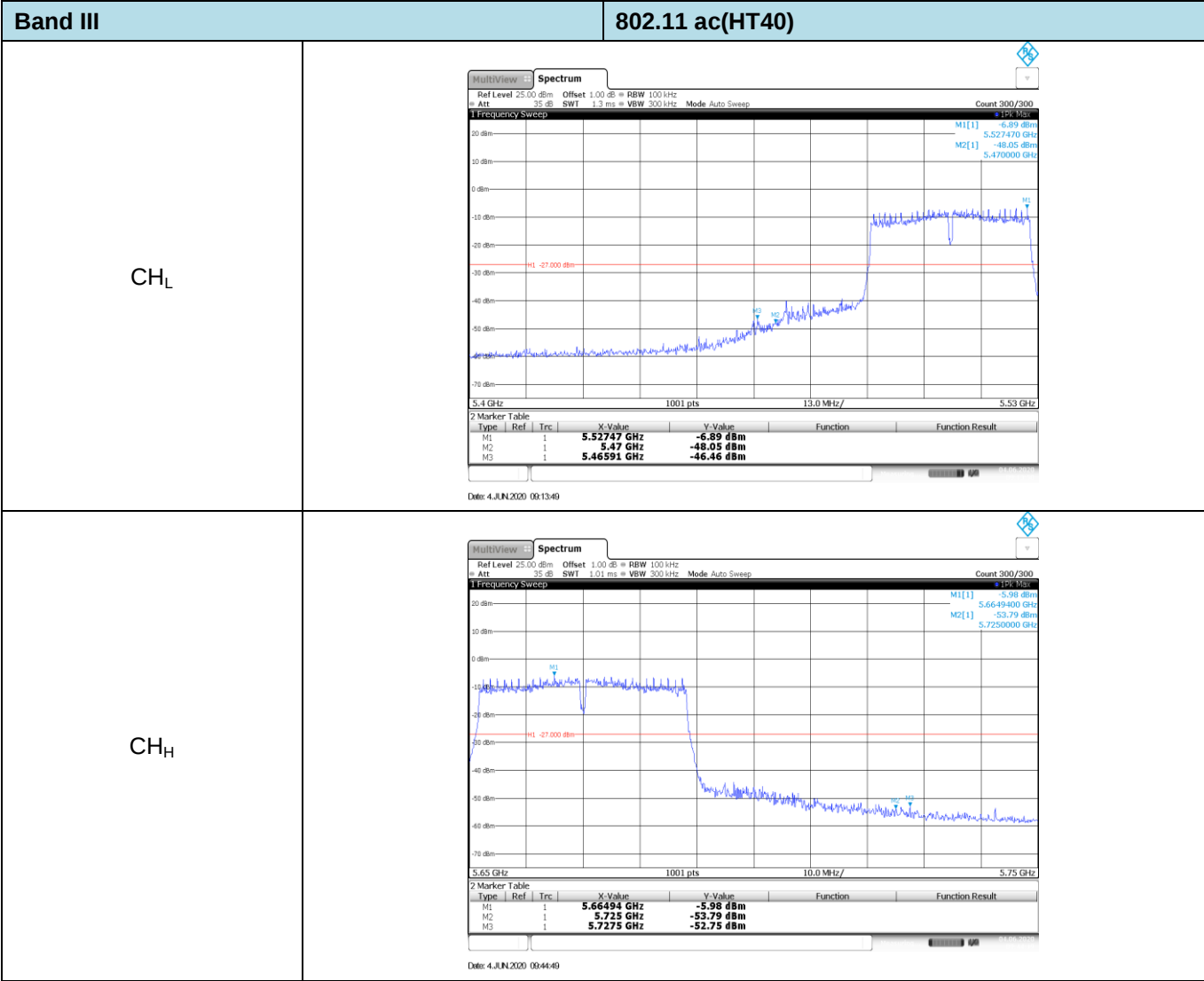


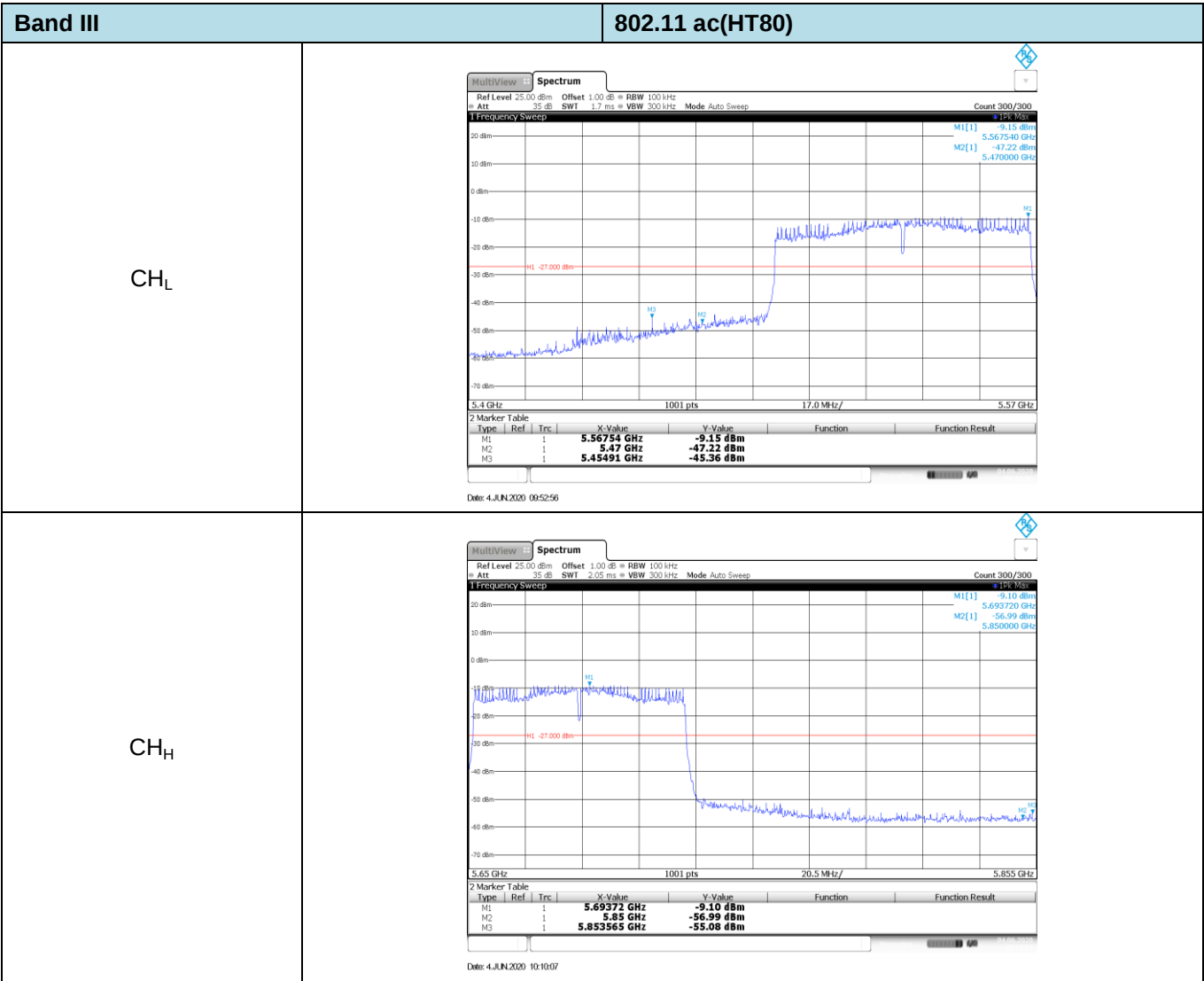


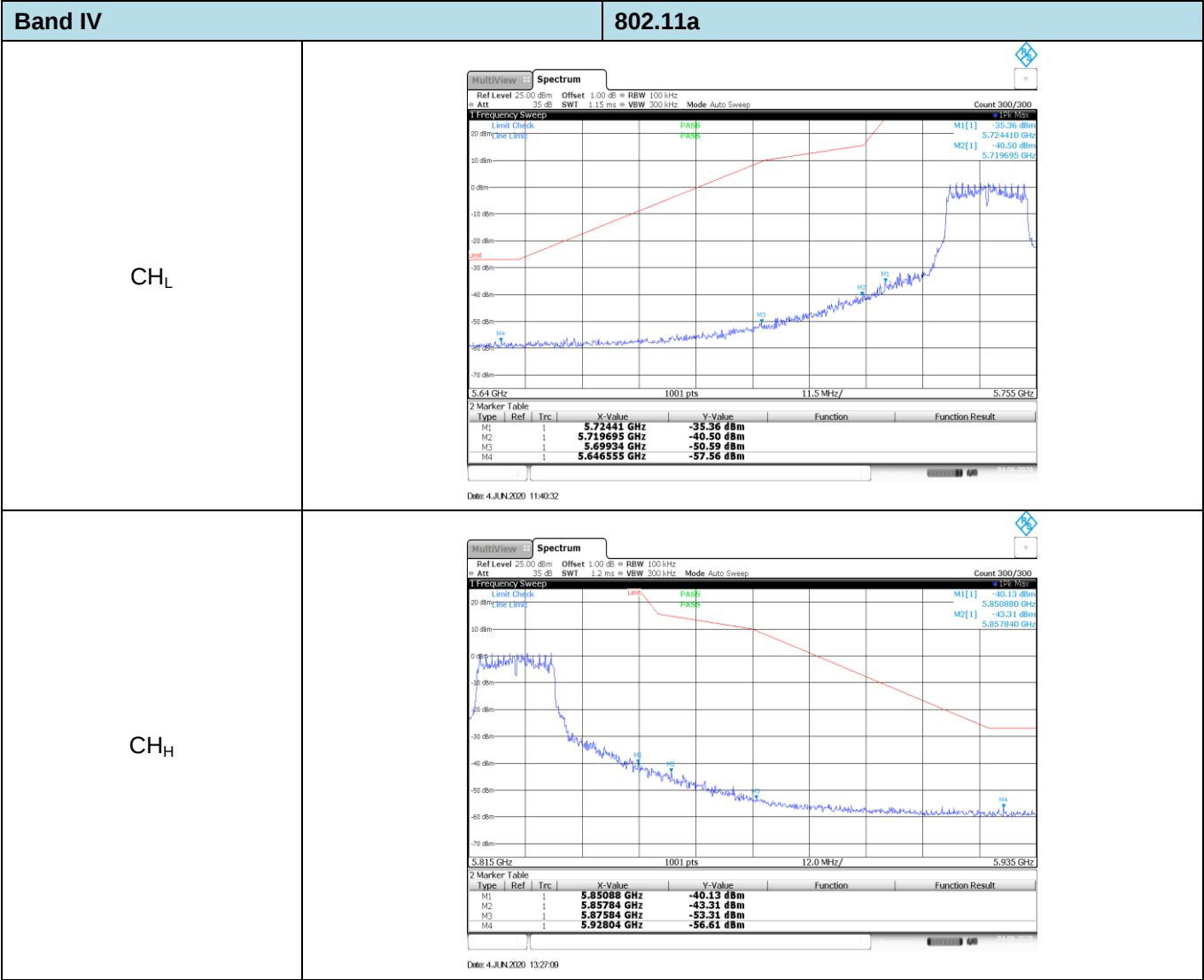


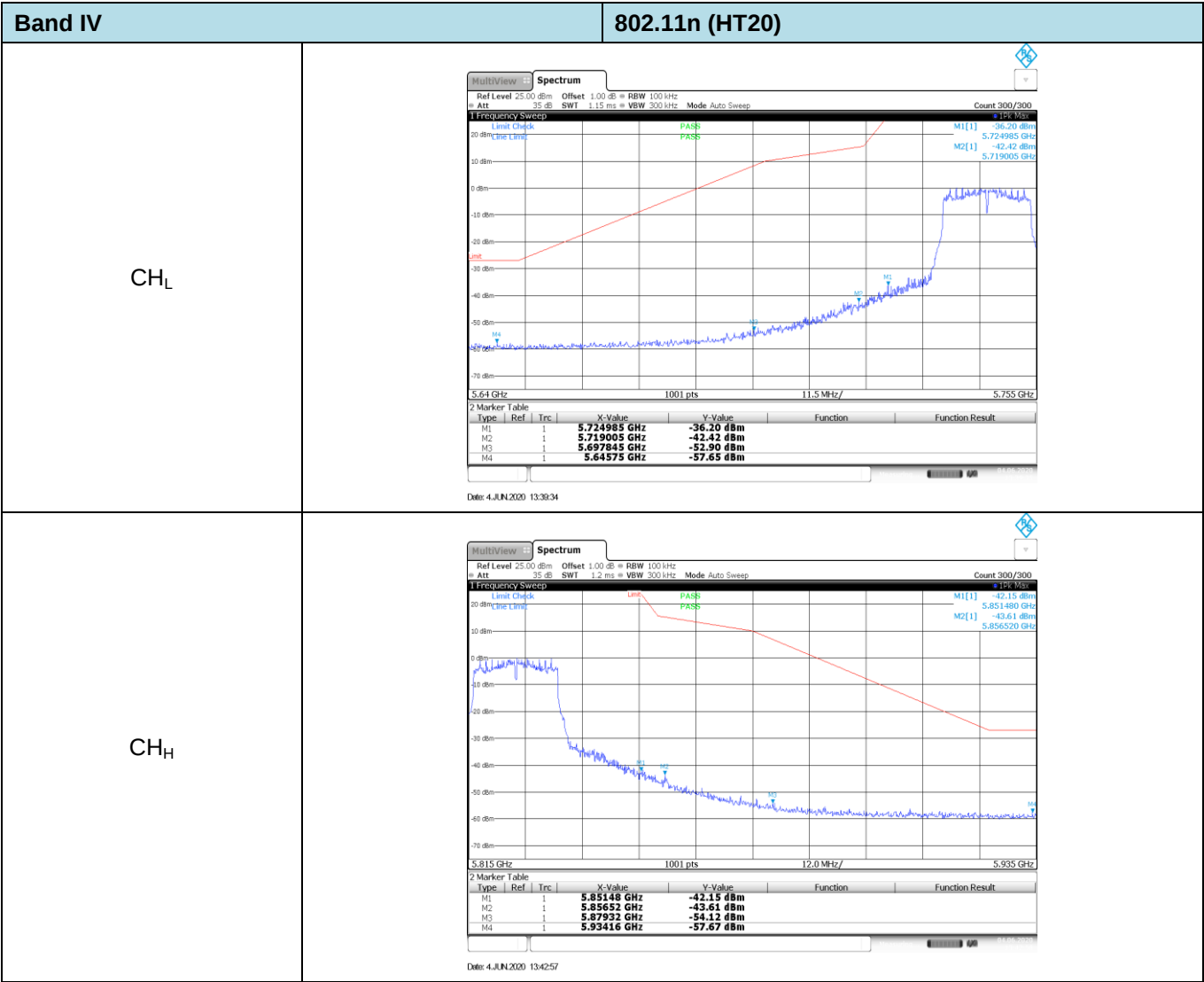


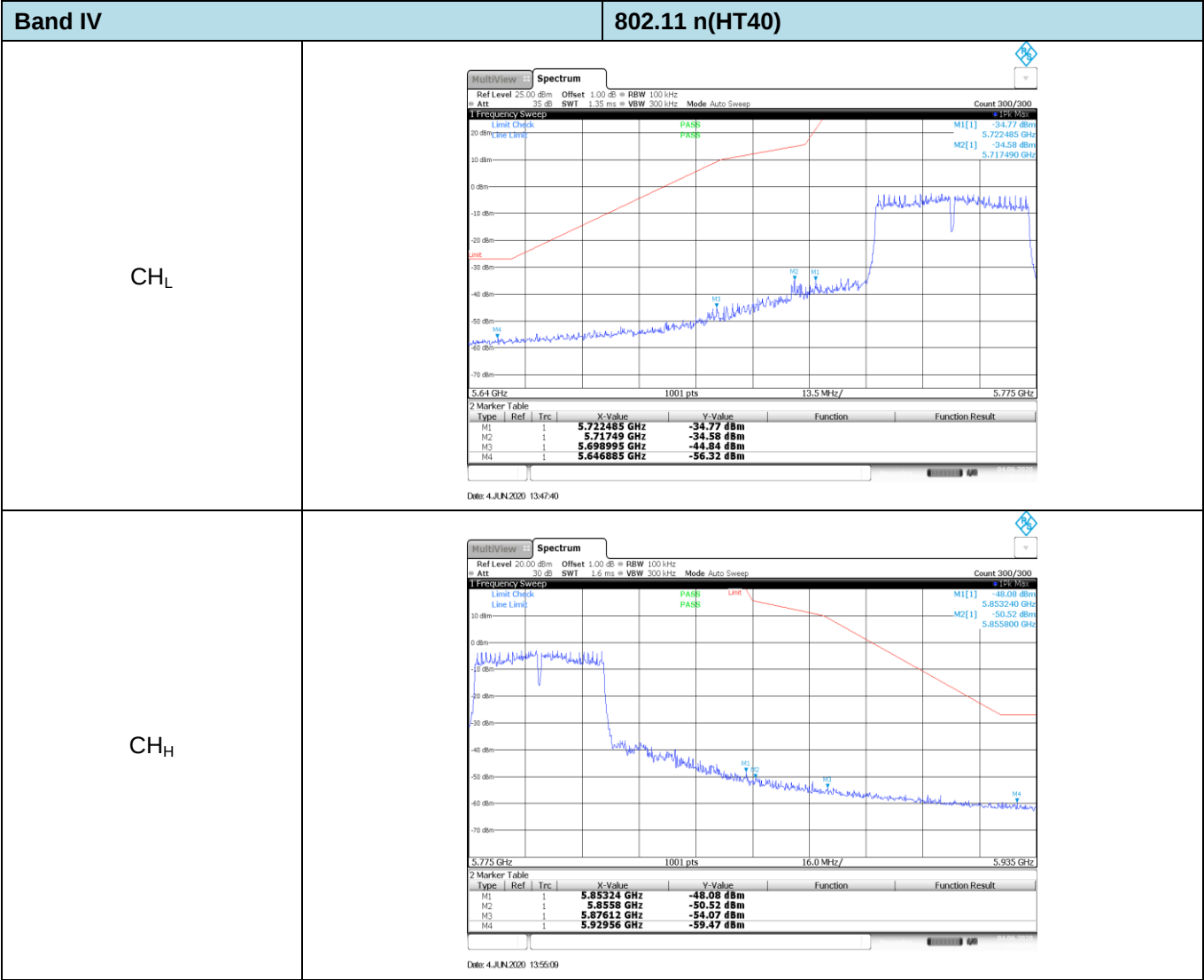


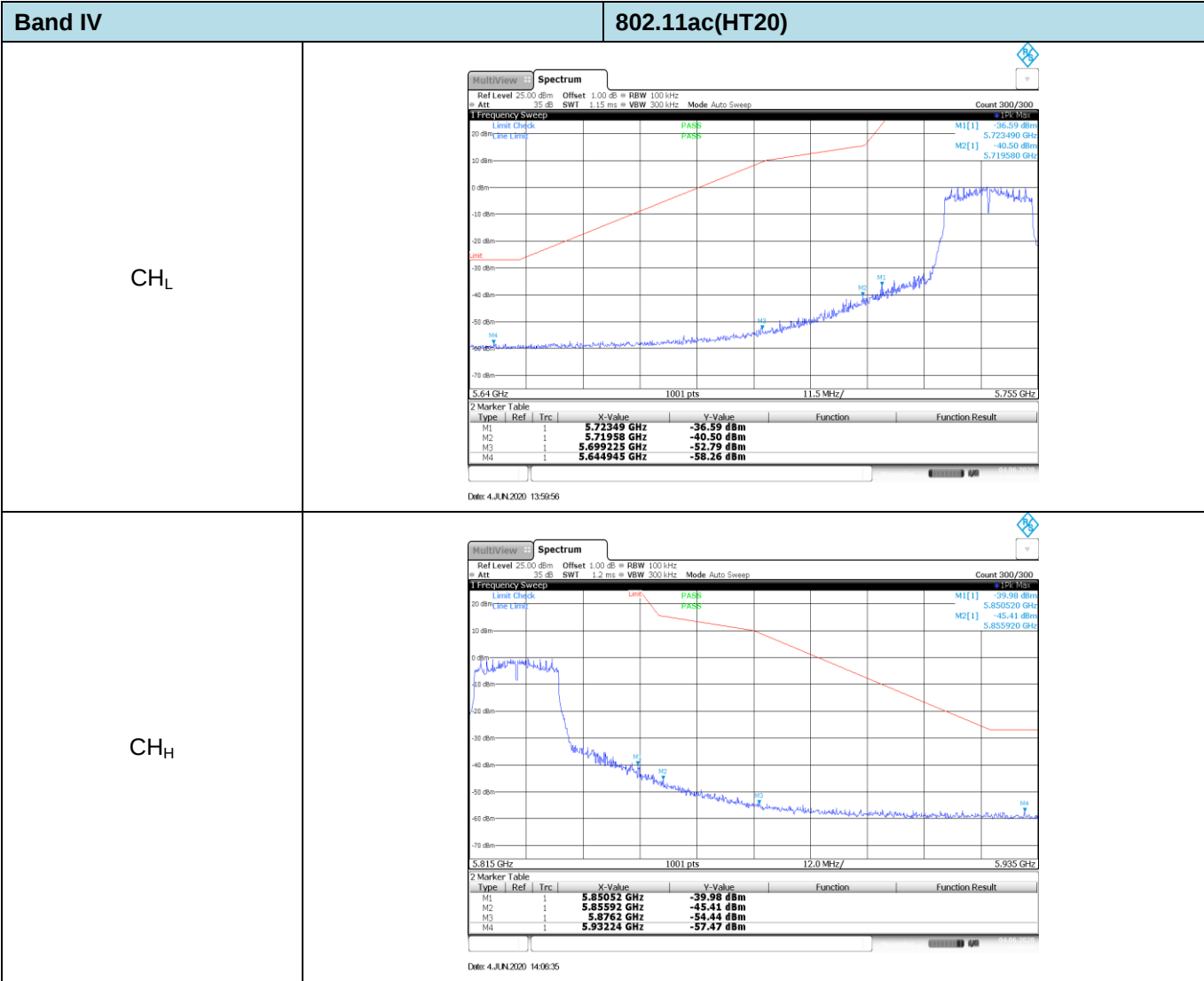


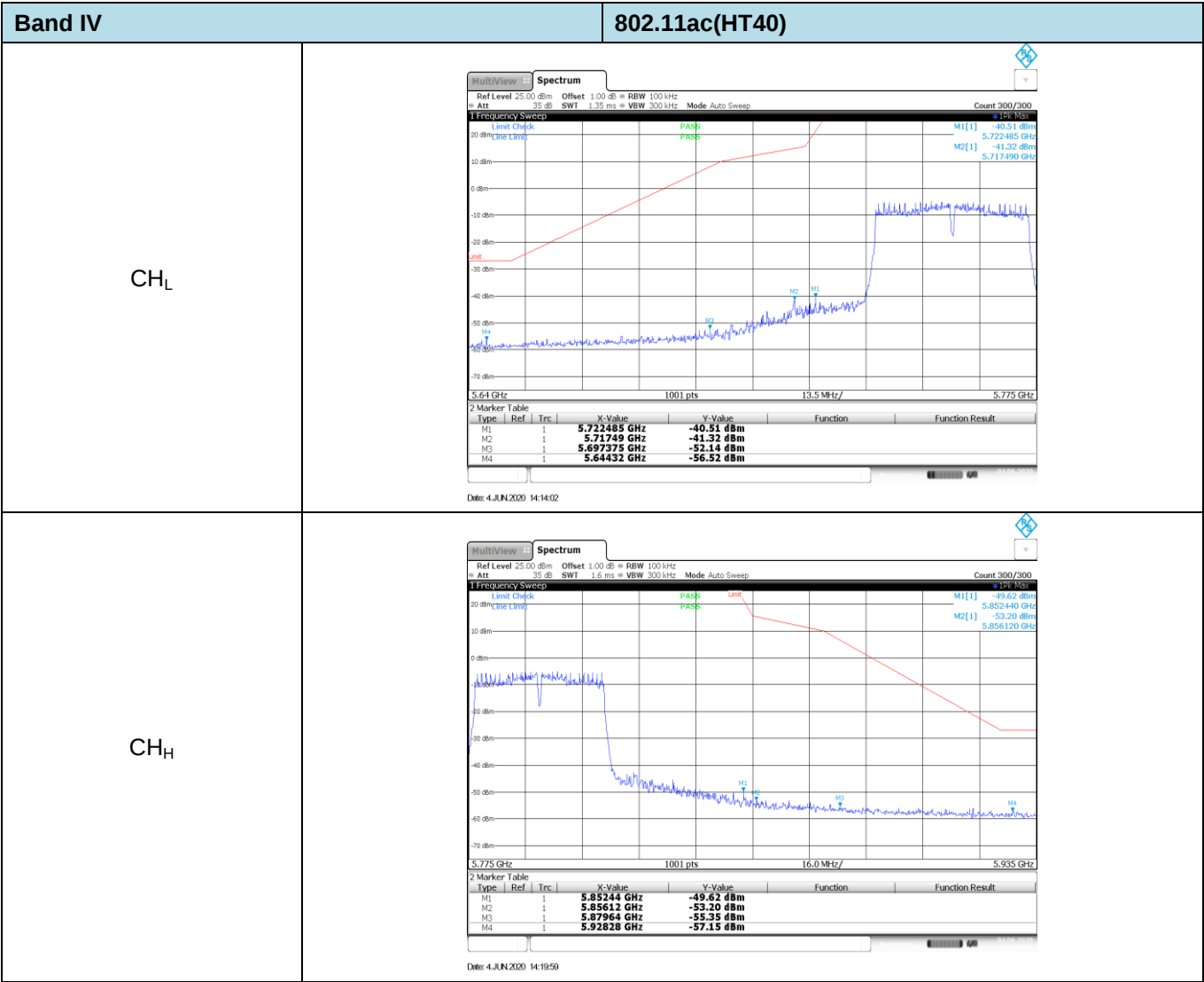


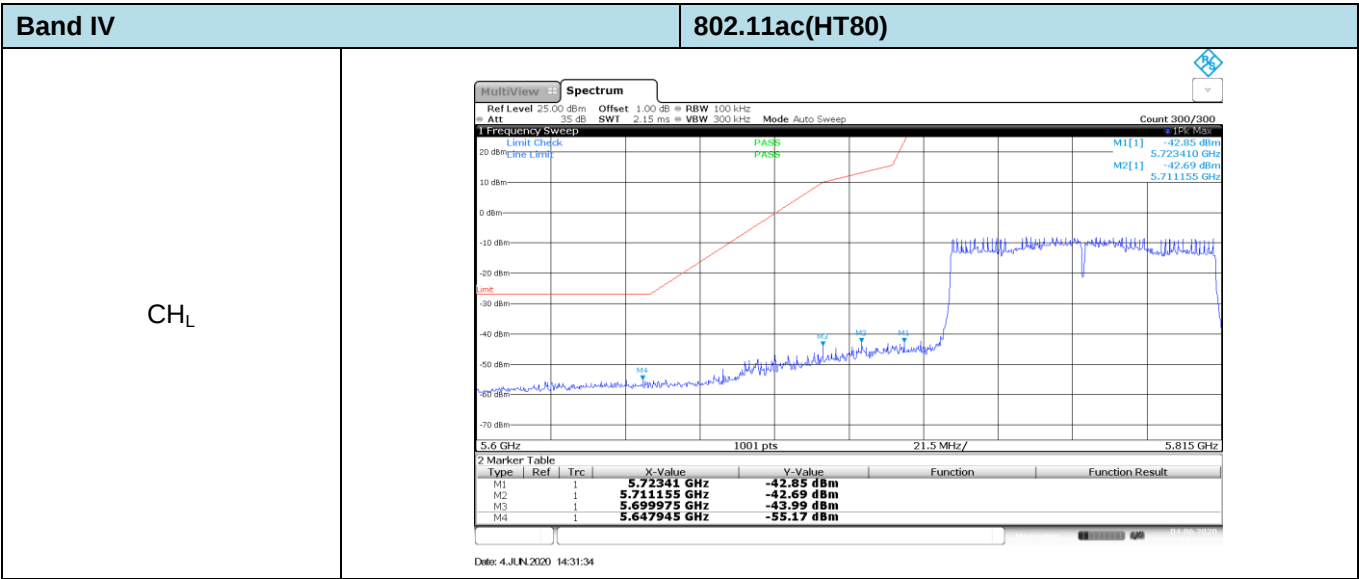












Appendix F: Frequency stability

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	4000.00	0.77220	PASS
T _N	V _N	4000.00	0.77220	PASS
T _N	V _H	4000.00	0.77220	PASS

Band: II			Test Frequency: 5260.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	4000.00	0.76046	PASS
T _N	V _N	5000.00	0.95057	PASS
T _N	V _H	5000.00	0.95057	PASS

Band: III			Test Frequency: 5500.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	4000.00	0.72727	PASS
T _N	V _N	4000.00	0.72727	PASS
T _N	V _H	4000.00	0.72727	PASS

Band: IV			Test Frequency: 5745.00MHz	
Temperature (°C)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
T _N	V _L	20000.00	3.48129	PASS
T _N	V _N	20000.00	3.48129	PASS
T _N	V _H	21000.00	3.65535	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	4000.00	0.77220	PASS
V _N	-10	4000.00	0.77220	PASS
V _N	0	4000.00	0.77220	PASS
V _N	10	4000.00	0.77220	PASS
V _N	20	4000.00	0.77220	PASS
V _N	30	4000.00	0.77220	PASS
V _N	40	4000.00	0.77220	PASS
V _N	50	4000.00	0.77220	PASS

Band: II			Test Frequency: 5260.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	4000.00	0.76046	PASS
V _N	-10	4000.00	0.76046	PASS
V _N	0	4000.00	0.76046	PASS
V _N	10	5000.00	0.95057	PASS
V _N	20	4000.00	0.76046	PASS
V _N	30	4000.00	0.76046	PASS
V _N	40	4000.00	0.76046	PASS
V _N	50	4000.00	0.76046	PASS

Band: III			Test Frequency: 5500.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	3000.00	0.54546	PASS
V _N	-10	3000.00	0.54546	PASS
V _N	0	4000.00	0.72727	PASS
V _N	10	4000.00	0.72727	PASS
V _N	20	4000.00	0.72727	PASS
V _N	30	5000.00	0.90909	PASS
V _N	40	4000.00	0.72727	PASS
V _N	50	4000.00	0.72727	PASS

Band: IV			Test Frequency: 5745.00MHz	
Voltage (V)	Temperature (°C)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V _N	-20	21000.00	3.65535	PASS
V _N	-10	21000.00	3.65535	PASS
V _N	0	22000.00	3.82942	PASS
V _N	10	22000.00	3.82942	PASS
V _N	20	22000.00	3.82942	PASS
V _N	30	22000.00	3.82942	PASS
V _N	40	22000.00	3.82942	PASS
V _N	50	22000.00	3.82942	PASS

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