

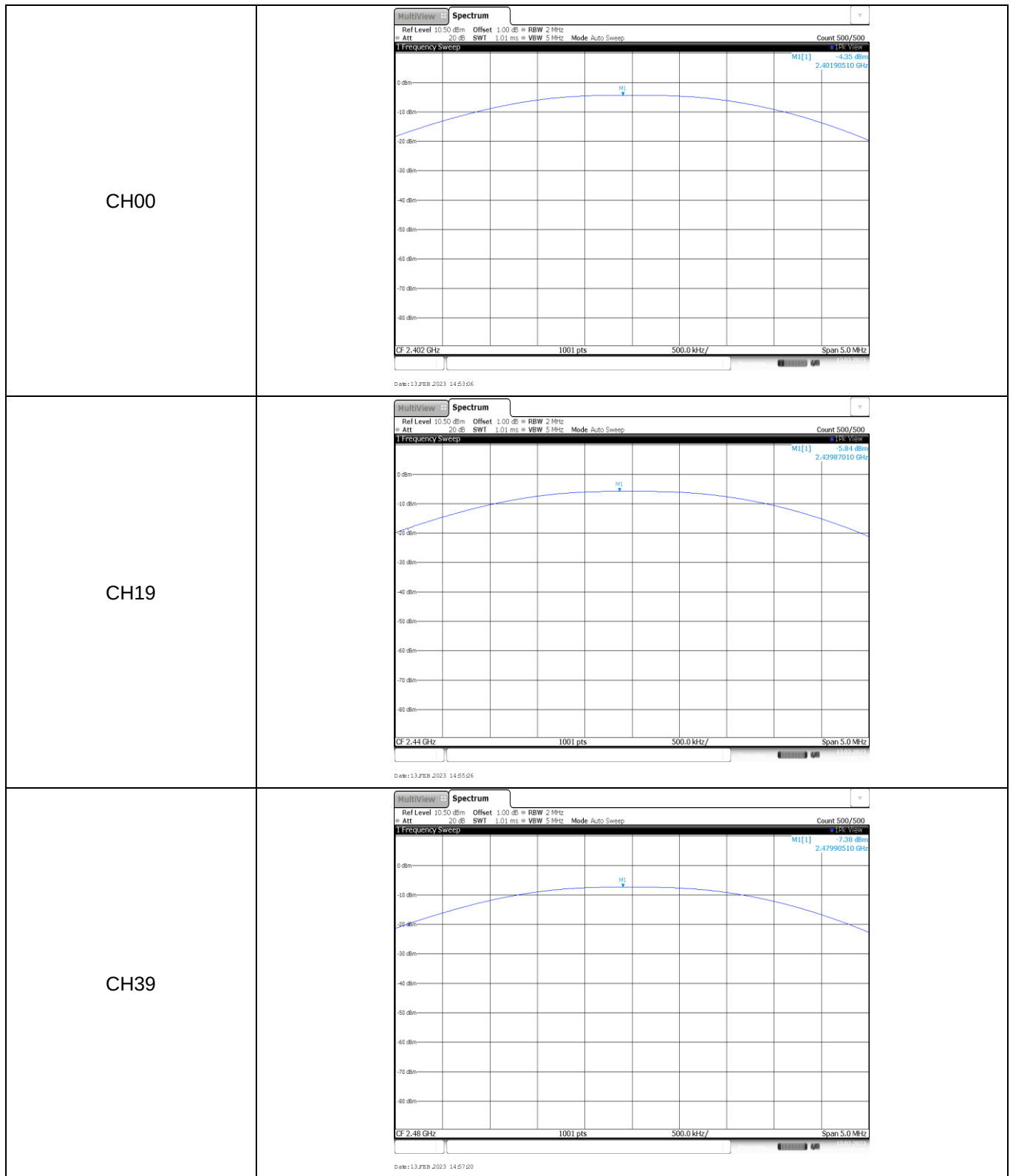
APPENDIX REPORT

Project No.	SHT2301033101EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT23010331002	Model No.	PRM-USTB
Start test date	2023-02-13	Finish date	2023-02-14
Temperature	23.7℃	Humidity	59%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

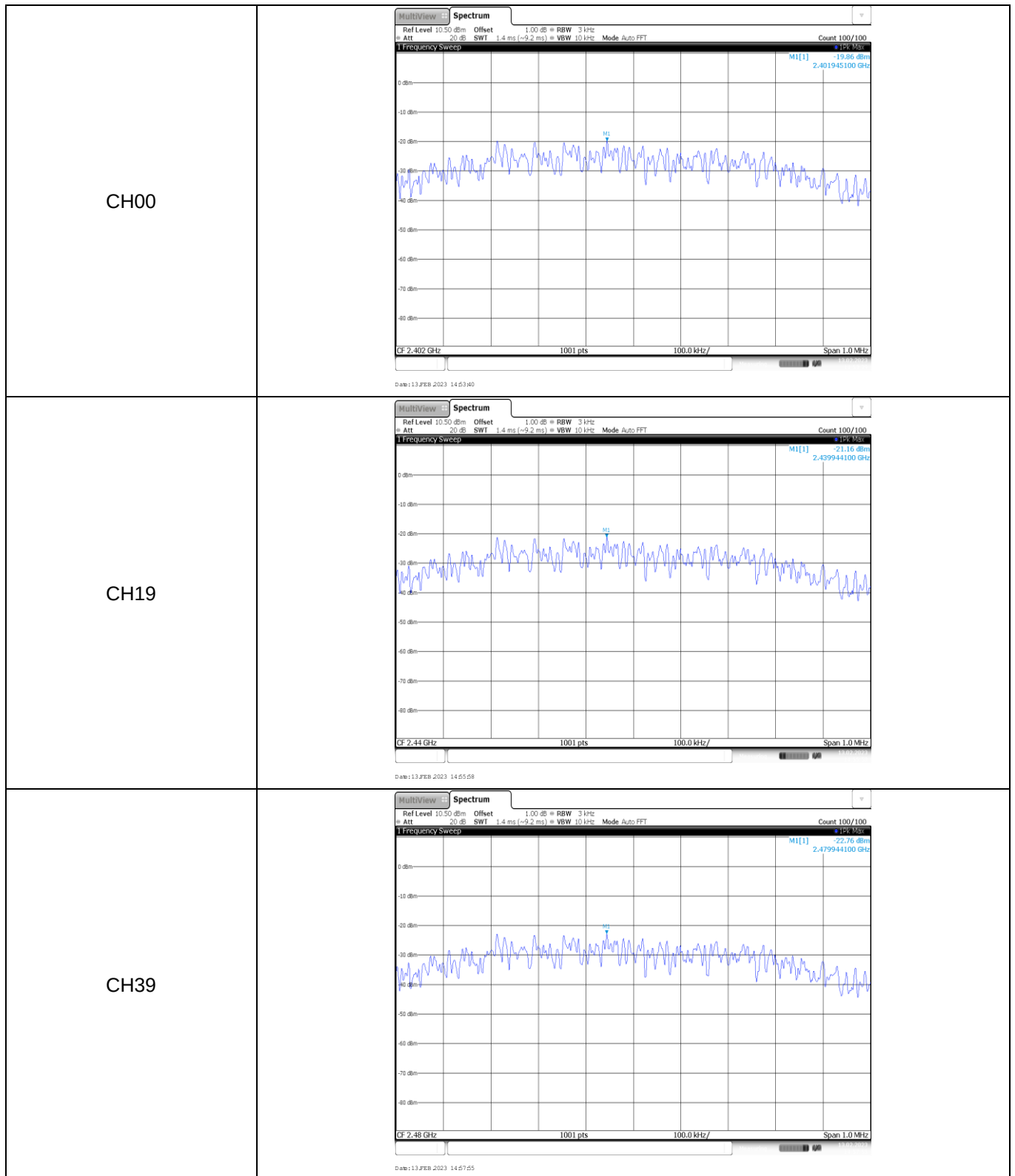
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-4.35	-4.41	≤ 30.00	Pass
	19	-5.84	-5.90		
	39	-7.38	-7.46		



Appendix B: Power Spectral Density

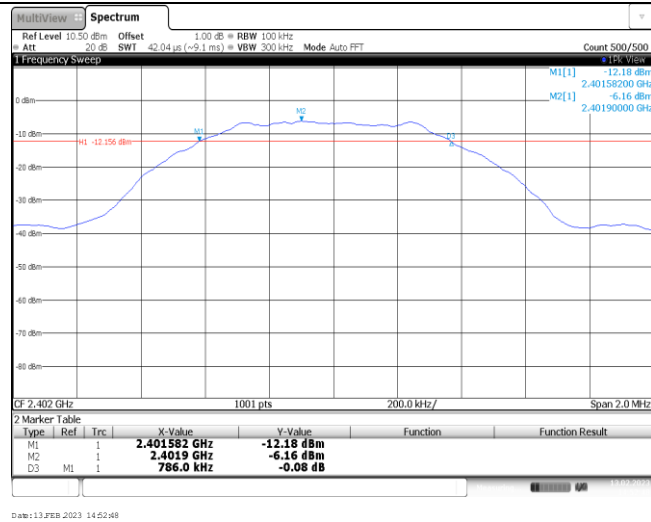
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-19.86	≤8.00	Pass
	19	-21.16		
	39	-22.76		



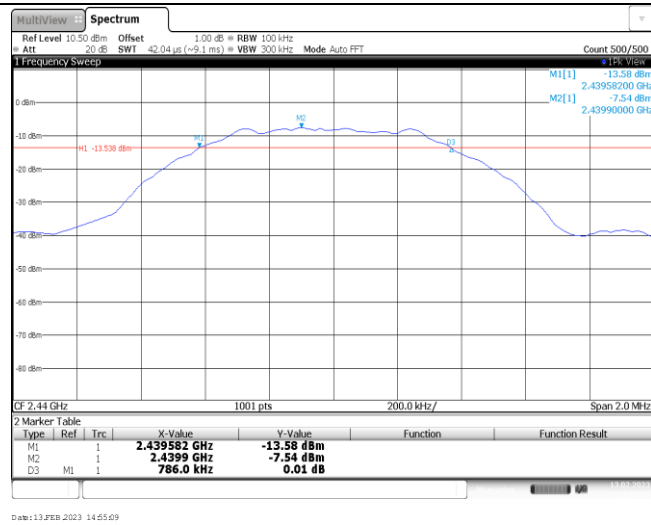
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	786.00	≥500	Pass
	19	786.00		
	39	790.00		

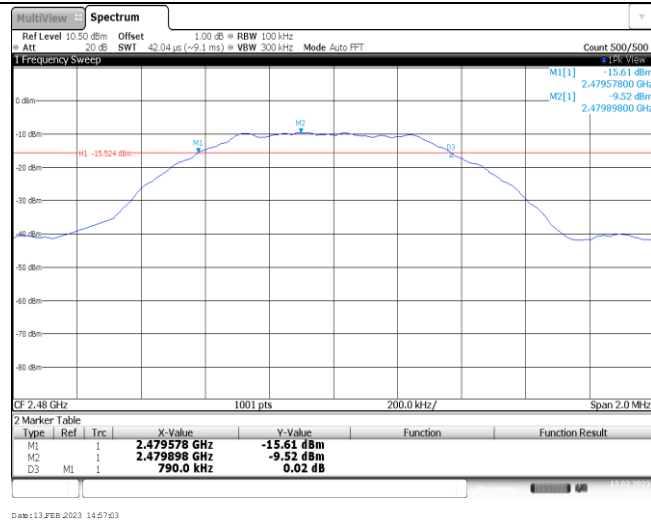
CH00



CH19

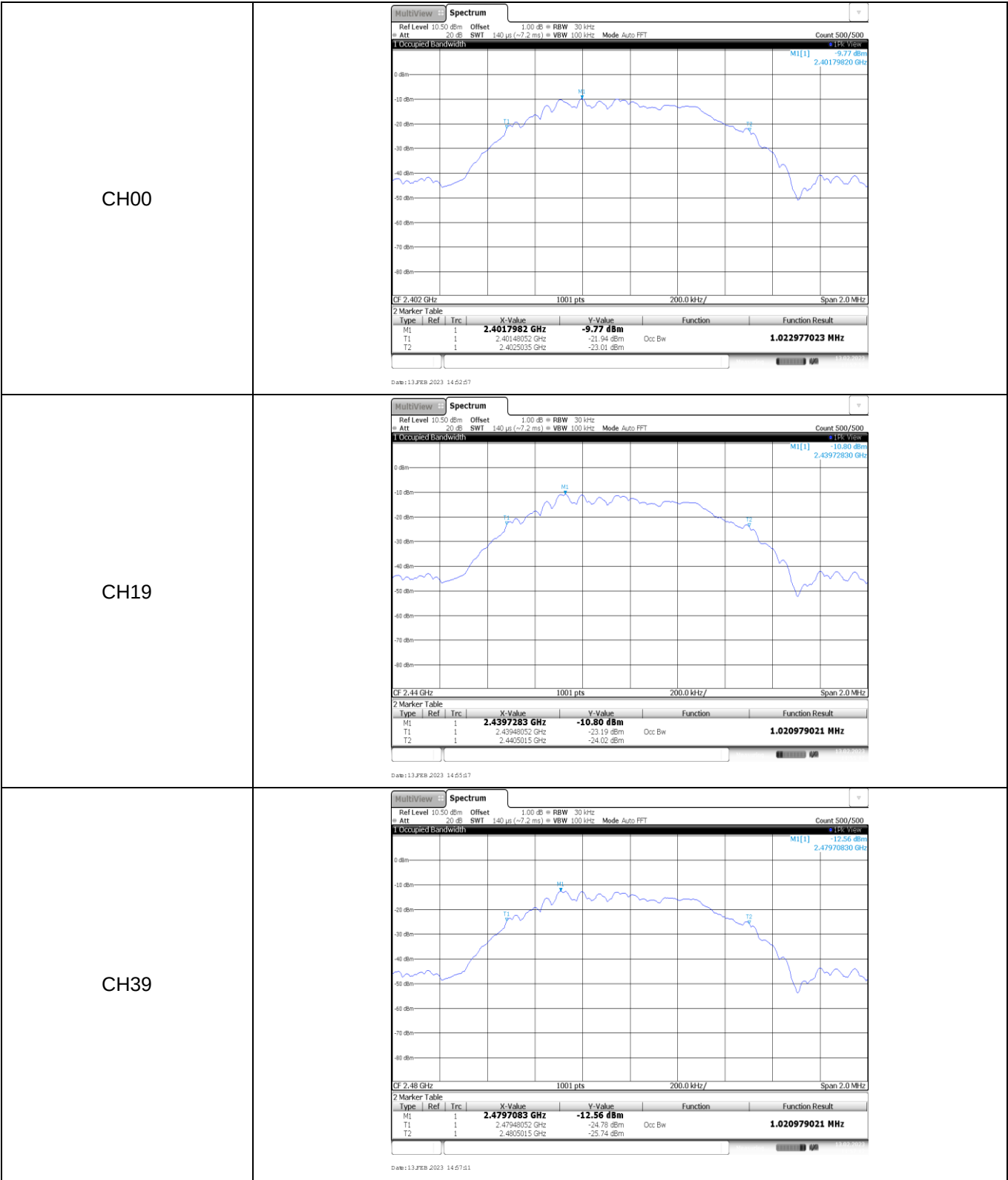


CH39



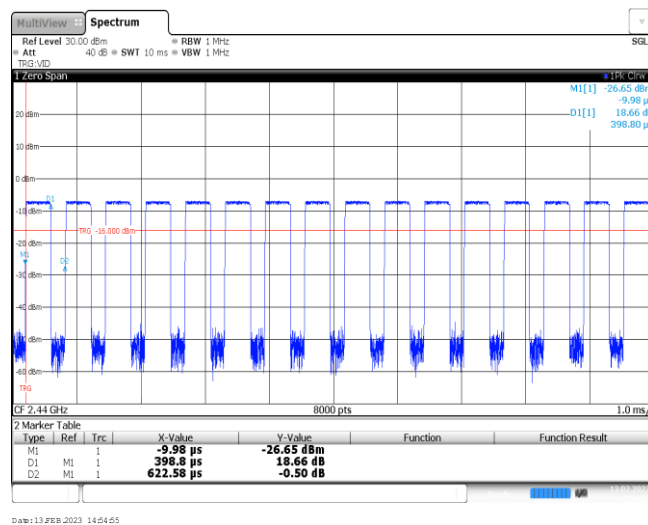
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.02		
	39	1.02		



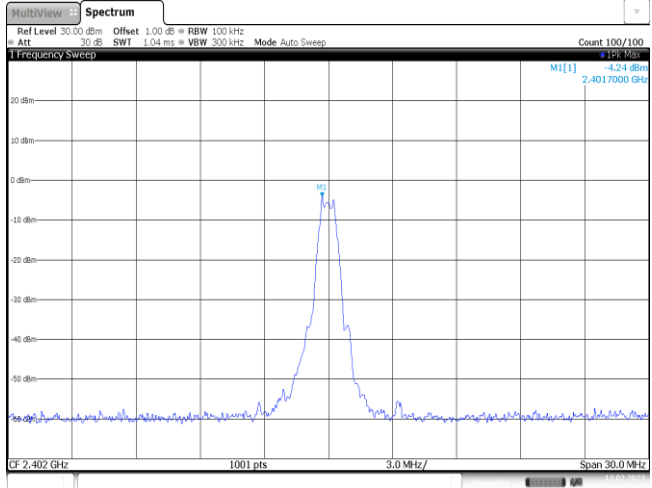
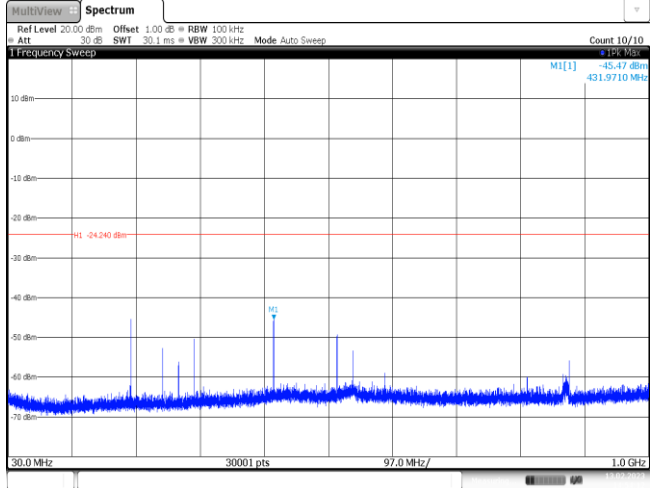
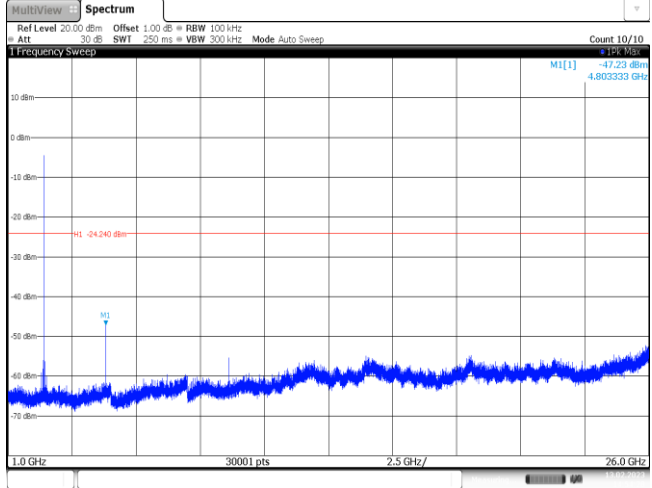
Appendix E: Duty cycle

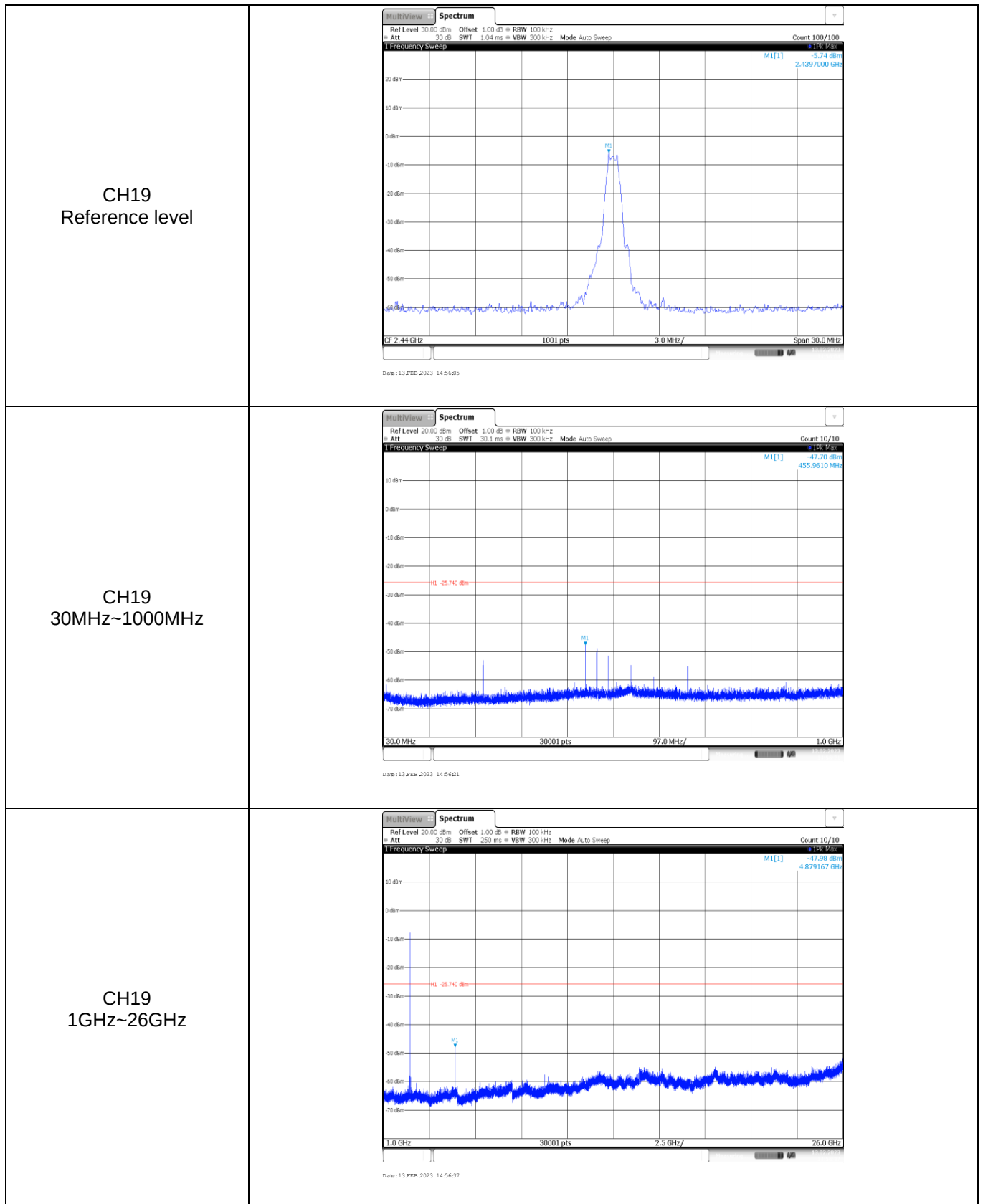
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.40	0.62	64.5%	2.5

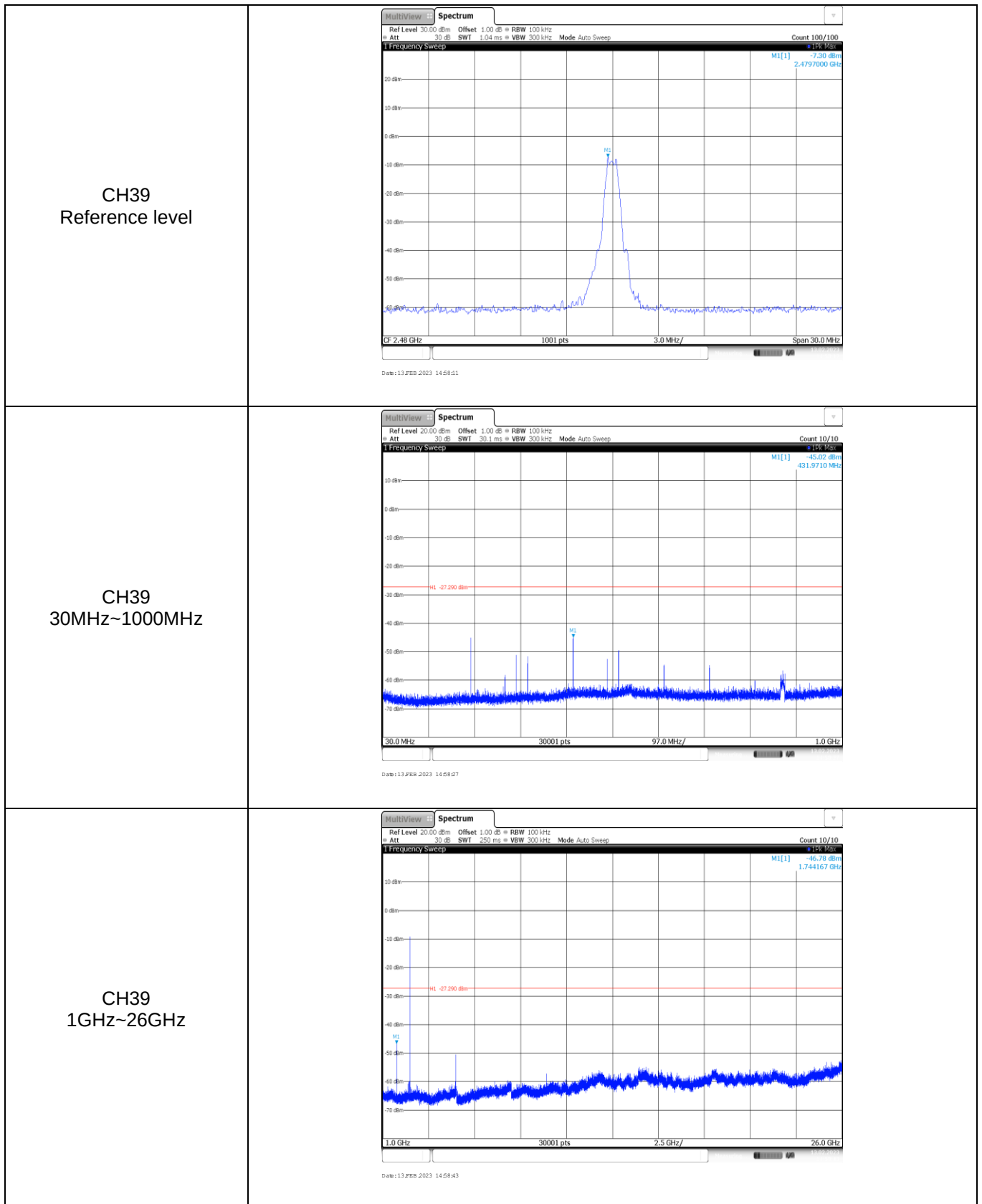


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -4.58 dBm M2[1] -56.69 dBm M3[1] -72.77 dBm M4[1] -73.78 dBm M5[1] -47.67 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 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>2.401726 GHz</td><td>-4.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.69 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-72.77 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.78 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.3537 GHz</td><td>-47.67 dBm</td><td></td><td></td></tr></table> Date: 13.FEB.2023 14:53:50	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	-4.58 dBm			M2	1		2.4 GHz	-56.69 dBm			M3	1		2.39 GHz	-72.77 dBm			M4	1		2.31 GHz	-73.78 dBm			M5	1		2.3537 GHz	-47.67 dBm		
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CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1[1] -7.58 dBm M2[1] -70.89 dBm M3[1] -72.08 dBm M4[1] -69.71 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 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>2.479703 GHz</td><td>-7.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-70.89 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-72.08 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.486492 GHz</td><td>-69.71 dBm</td><td></td><td></td></tr></table> Date: 13.FEB.2023 14:58:05	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479703 GHz	-7.58 dBm			M2	1		2.4835 GHz	-70.89 dBm			M3	1		2.5 GHz	-72.08 dBm			M4	1		2.486492 GHz	-69.71 dBm									
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M3	1		2.5 GHz	-72.08 dBm																																							
M4	1		2.486492 GHz	-69.71 dBm																																							

Test Item:	SE
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -42.4 dBm 2.4017000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:13.FEB.2023 14:51:56
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -45.47 dBm 431.9710 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:13.FEB.2023 14:54:12
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -47.23 dBm 4.803533 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:13.FEB.2023 14:54:28





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