

APPENDIX REPORT

Project No.	SHT2009103703EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20091037003	Model No.	AX754+
Start test date	2020/11/10	Finish date	2020/11/10
Temperature	25°C	Humidity	50%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

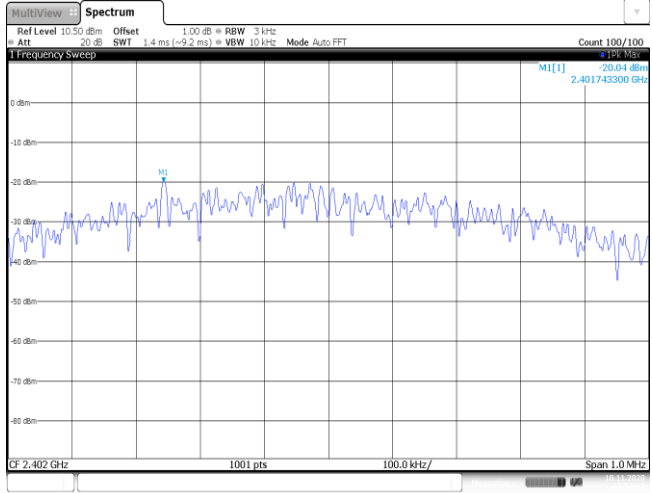
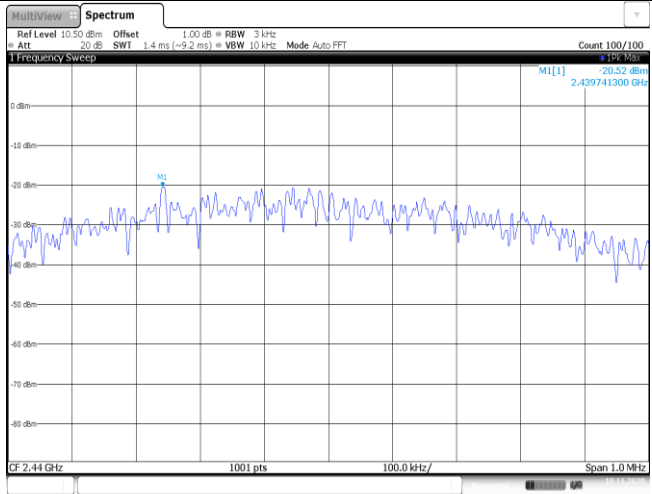
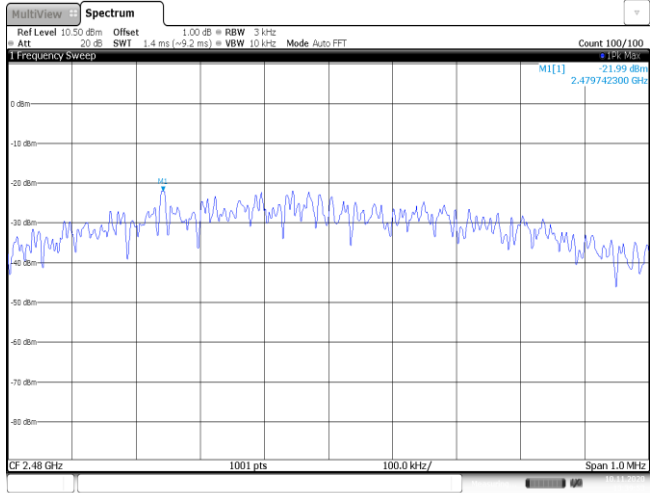
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-4.33	-4.35	≤ 30.00	Pass
	19	-4.87	-4.89		
	39	-6.29	-6.30		

Appendix B: Power Spectral Density

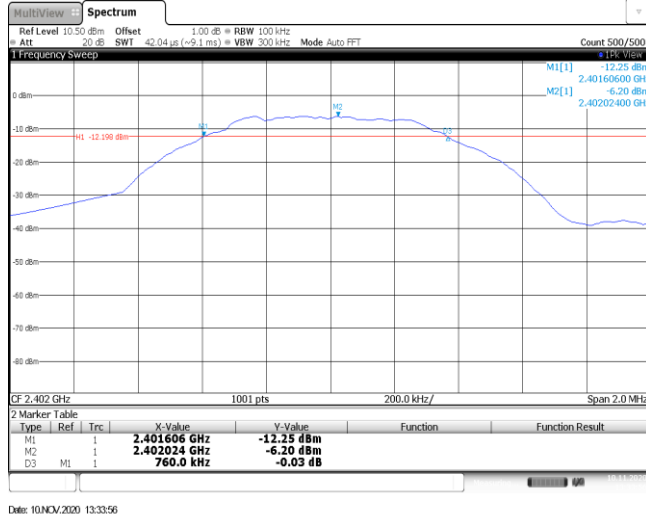
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-20.04	≤8.00	Pass
	19	-20.52		
	39	-21.99		

<p>CH00</p>	 <p>MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.0 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -20.04 dBm 2.401743300 GHz CF 2.402 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 10/NOV/2020 13:34:30</p>
<p>CH19</p>	 <p>MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.0 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -20.52 dBm 2.439741300 GHz CF 2.44 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 10/NOV/2020 13:38:04</p>
<p>CH39</p>	 <p>MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.0 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -21.99 dBm 2.479742300 GHz CF 2.48 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 10/NOV/2020 13:39:53</p>

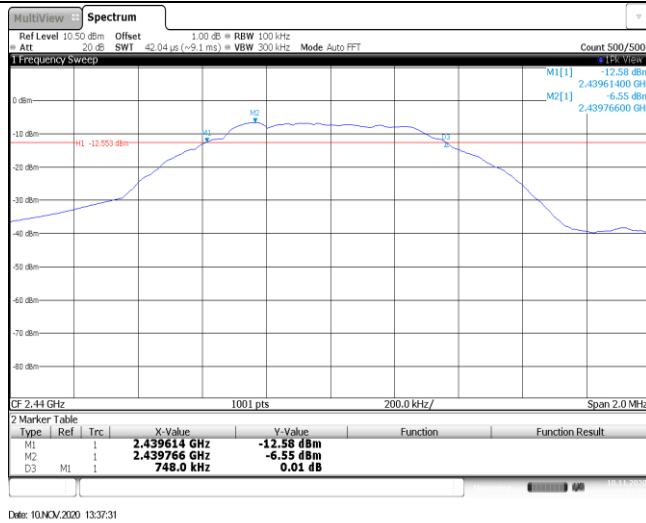
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	760.00	≥500	Pass
	19	748.00		
	39	750.00		

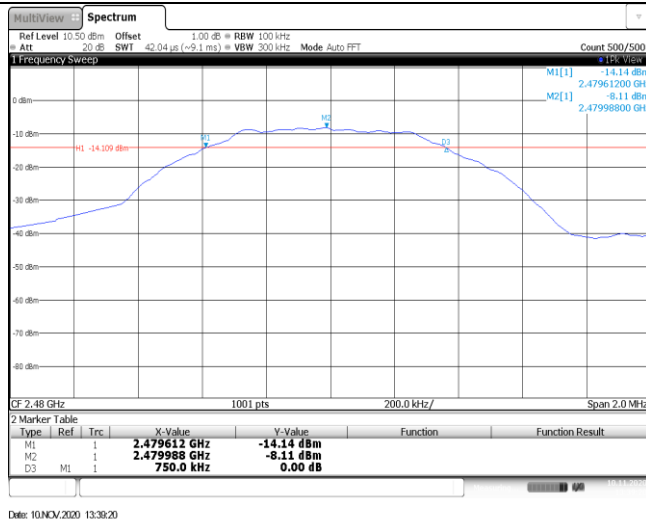
CH00



CH19



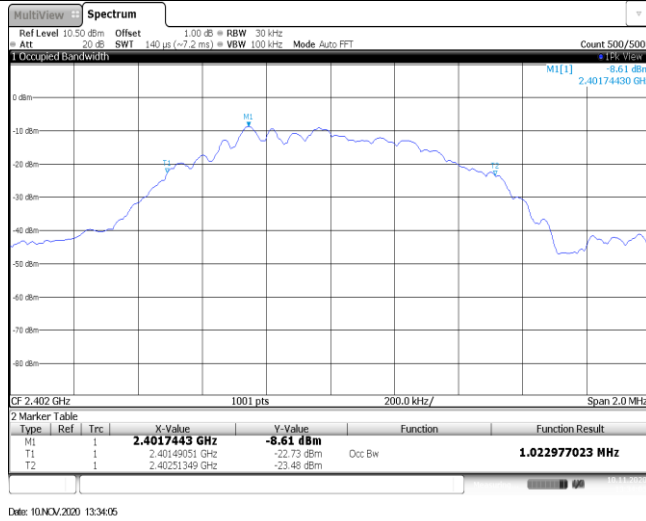
CH39



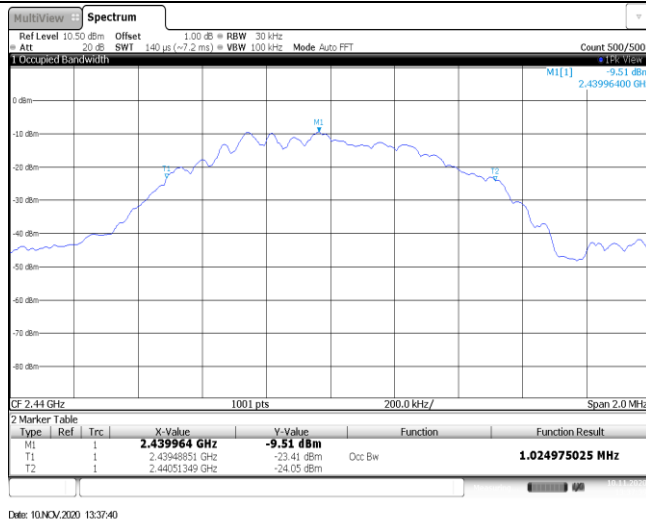
Appendix D: 99% Occupied Bandwidth

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

CH00



CH19

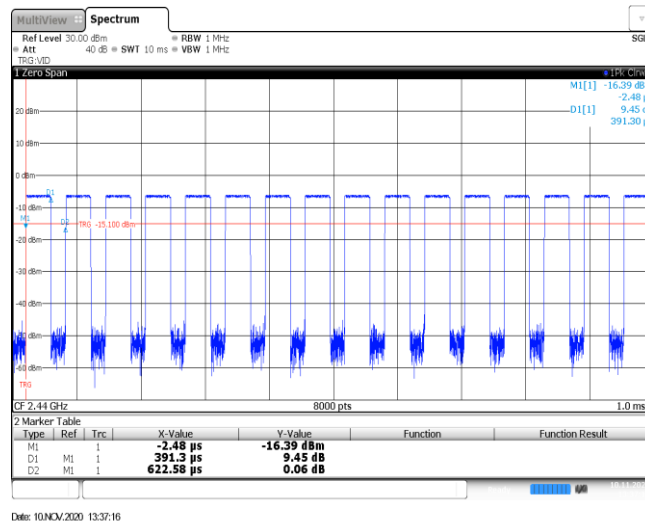


CH39

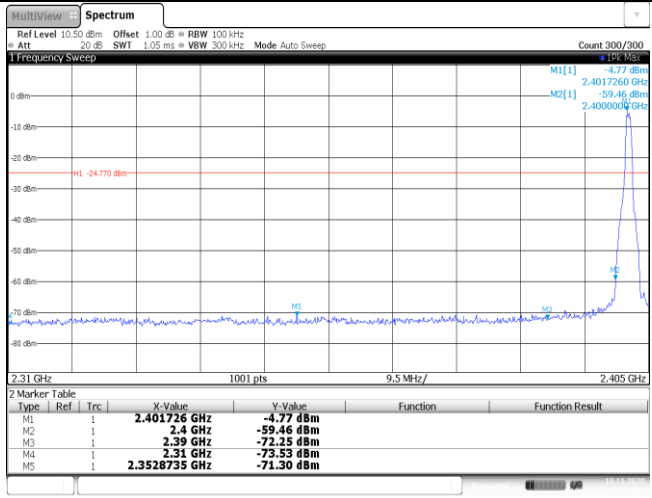
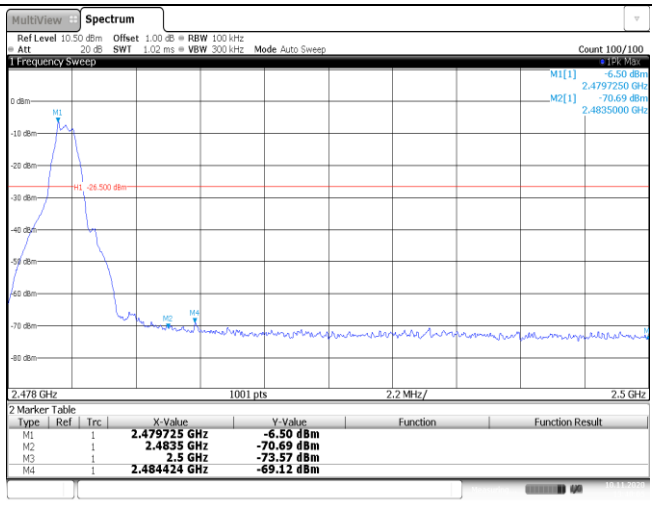


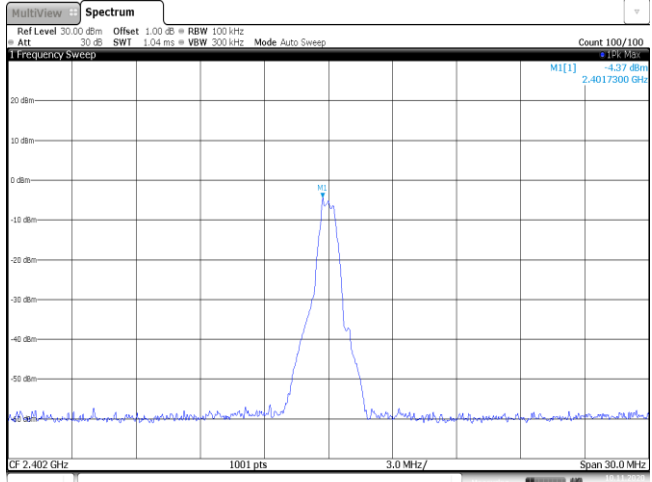
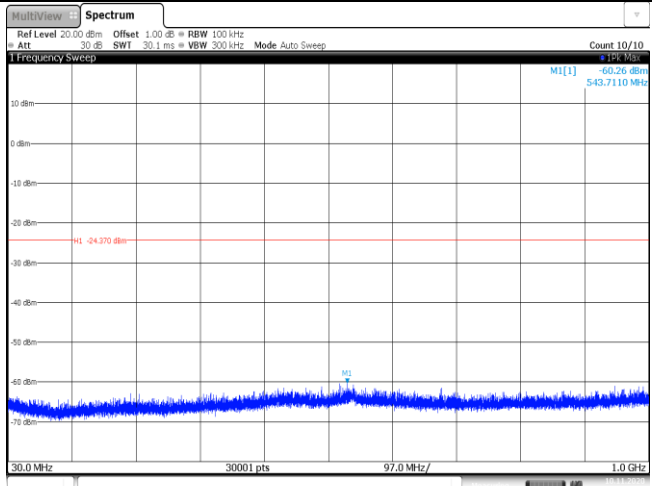
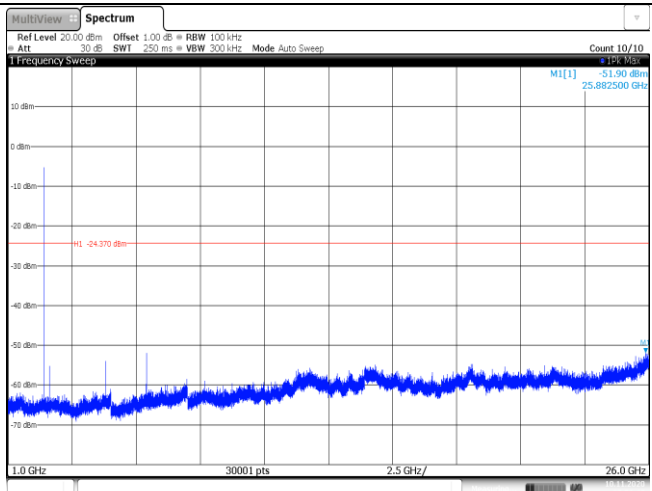
Appendix E: Duty cycle

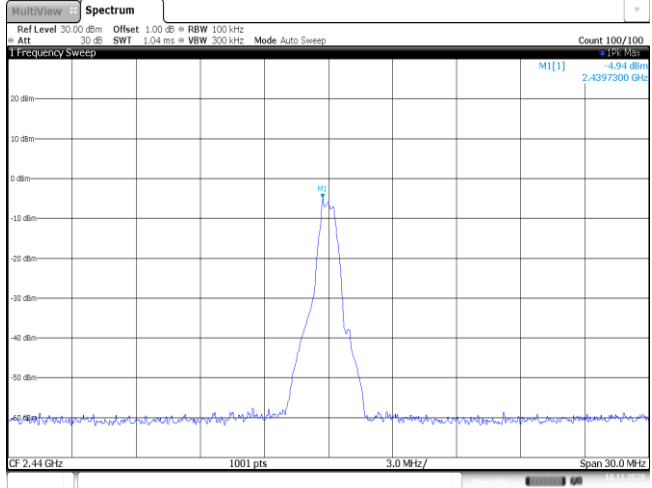
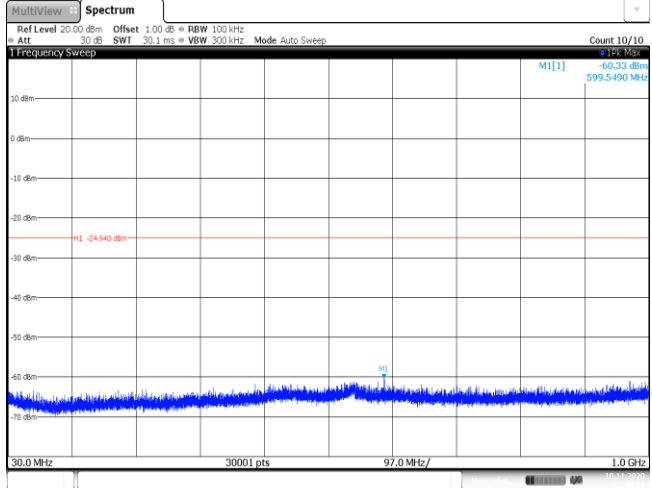
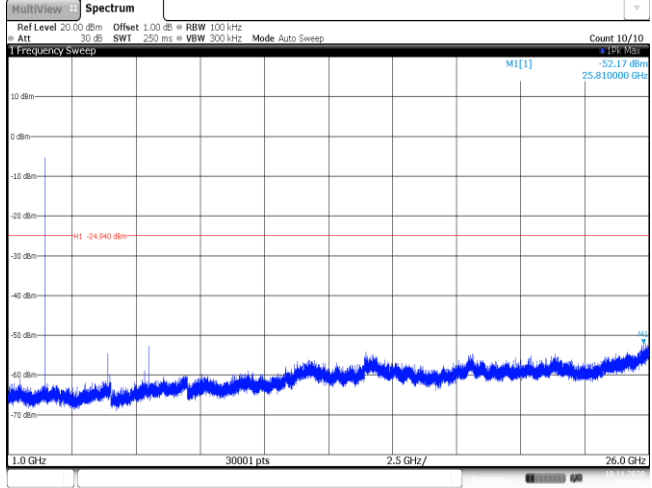
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6

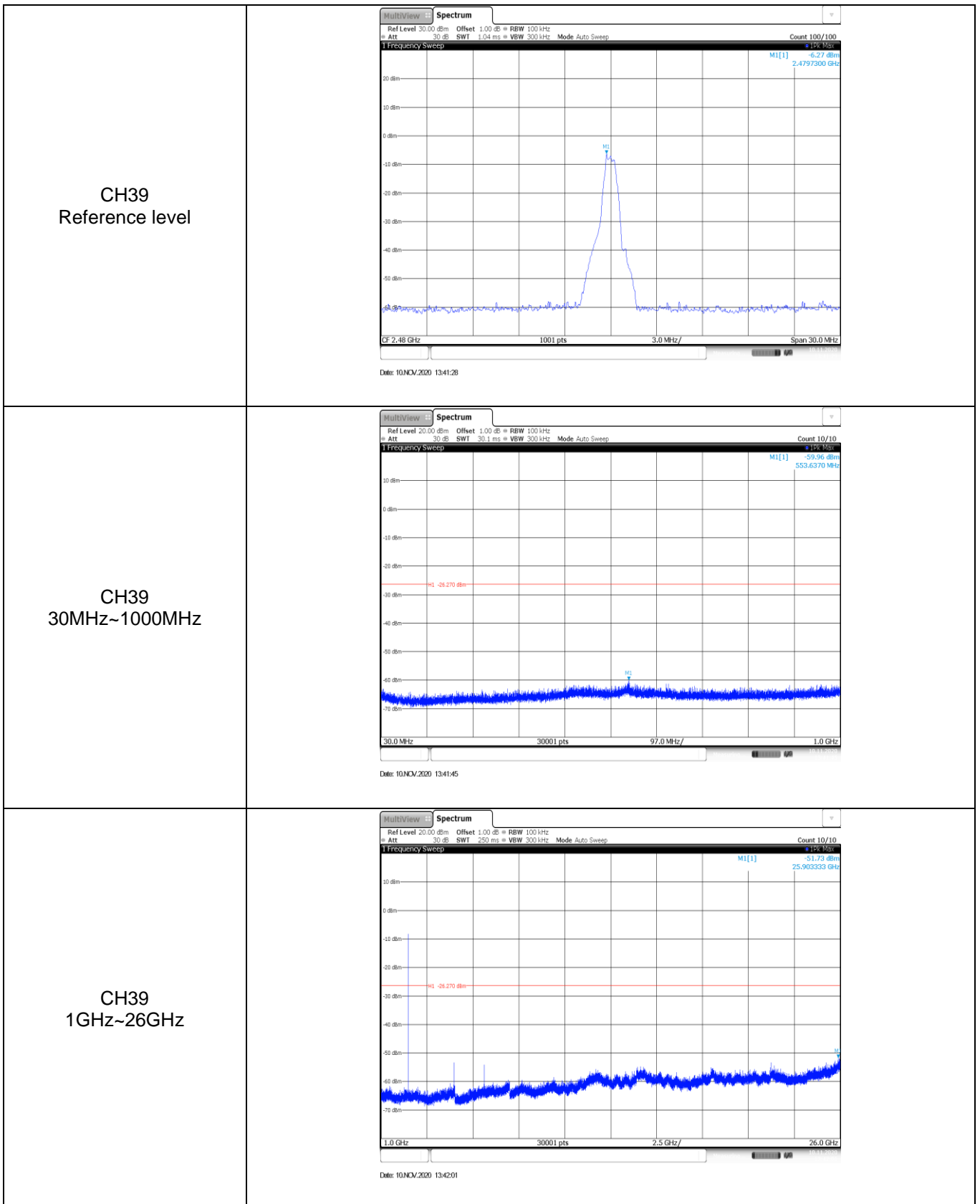


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <p>2 Marker Table</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401726 GHz</td> <td>-4.77 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-59.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-72.25 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-73.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.3528735 GHz</td> <td>-71.30 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 10/NOV/2020 13:35:03</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	-4.77 dBm			M2	1		2.4 GHz	-59.46 dBm			M3	1		2.39 GHz	-72.25 dBm			M4	1		2.31 GHz	-73.53 dBm			M5	1		2.3528735 GHz	-71.30 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>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] -4.37 dBm 2.4017300 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 10/NOV/2020 13:38:12</p>
<p>CH00 30MHz~1000MHz</p>	 <p>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] -60.26 dBm 543.7110 MHz M1 -24.370 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 10/NOV/2020 13:38:28</p>
<p>CH00 1GHz~26GHz</p>	 <p>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] -51.90 dBm 25.882500 GHz M1 -24.370 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 10/NOV/2020 13:38:44</p>

<p>CH19 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep M1[1] -4.94 dBm 2.4397300 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 10/NOV/2020 13:38:11</p>
<p>CH19 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -60.53 dBm 599.5490 MHz M1 -24.940 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 10/NOV/2020 13:38:27</p>
<p>CH19 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1 Frequency Sweep M1[1] -52.17 dBm 25.810000 GHz M1 -24.940 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 10/NOV/2020 13:38:43</p>



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