

APPENDIX REPORT

Project No.	SHT2007089512EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20070895028	Model No.	PPA1002
Start test date	2020/10/15	Finish date	2020/10/15
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	Xiaodong Zheo

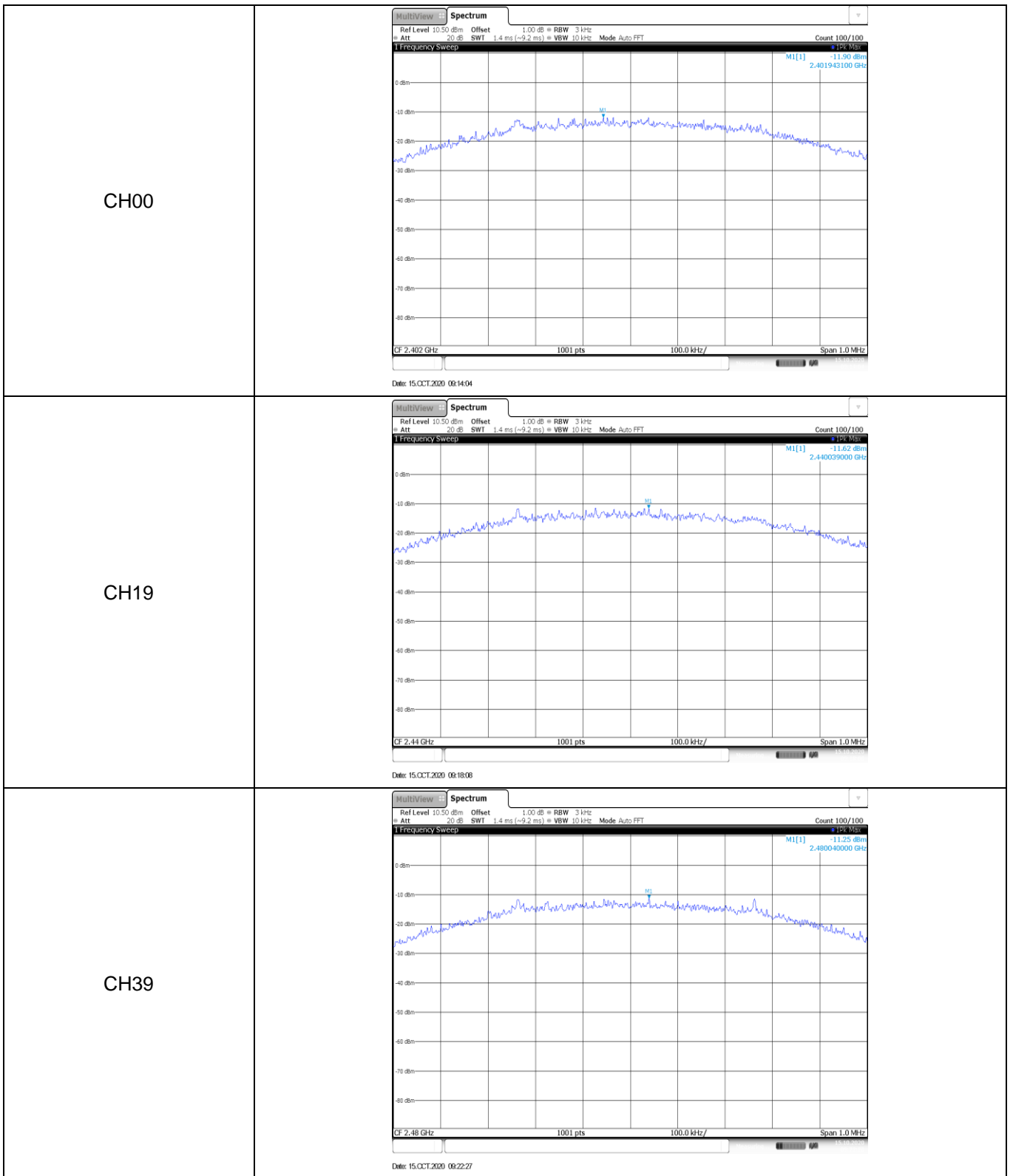
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-2.14	-2.15	≤ 30.00	Pass
	19	-1.90	-1.92		
	39	-1.75	-1.76		

Appendix B: Power Spectral Density

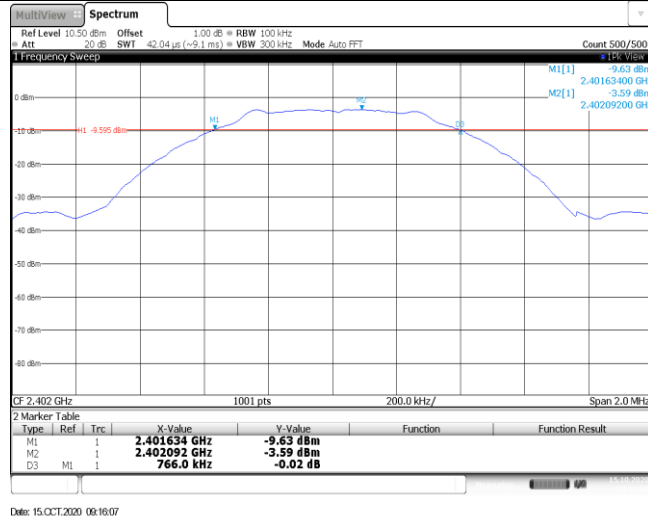
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-11.90	≤8.00	Pass
	19	-11.62		
	39	-11.25		



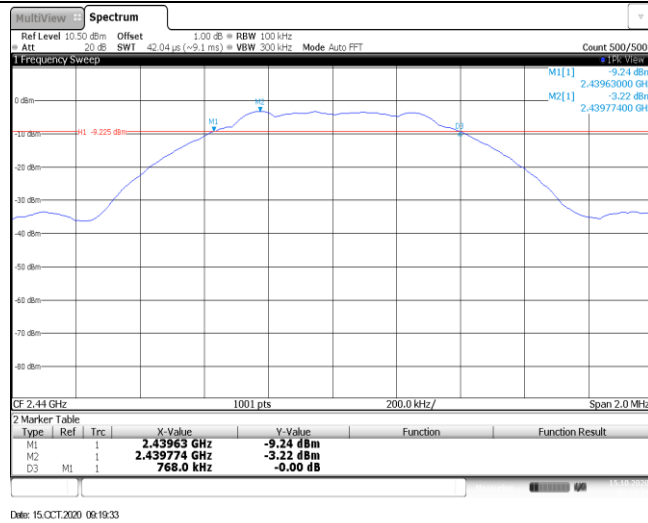
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	766.00	≥500	Pass
	19	768.00		
	39	704.00		

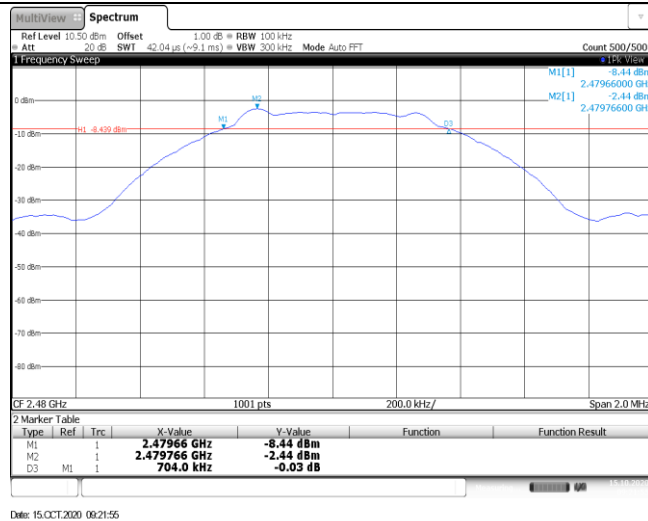
CH00



CH19



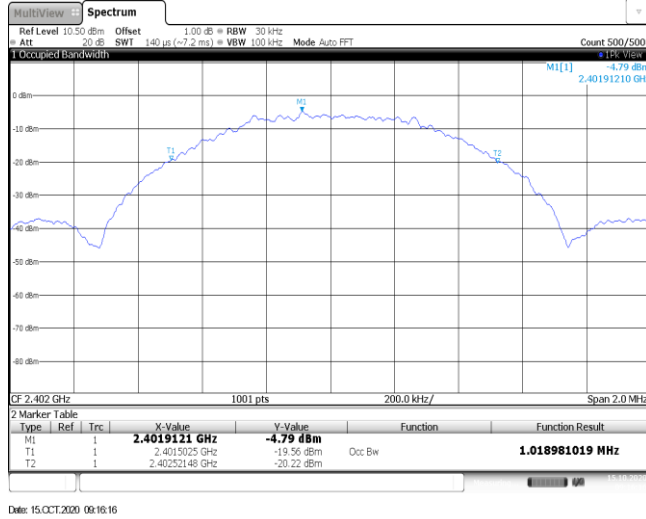
CH39



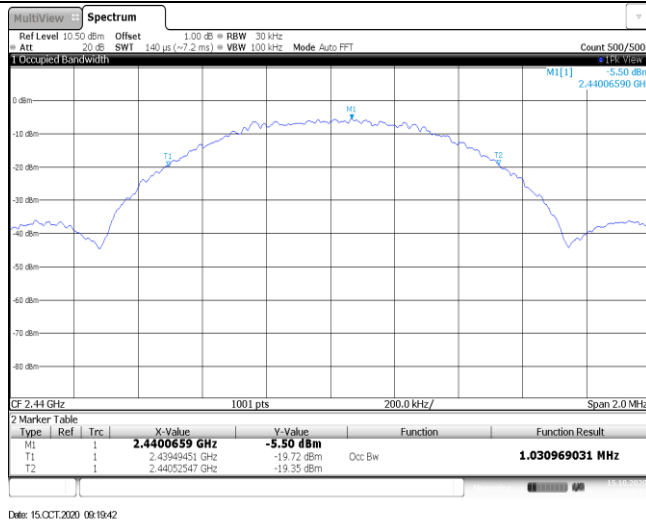
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.03		
	39	1.02		

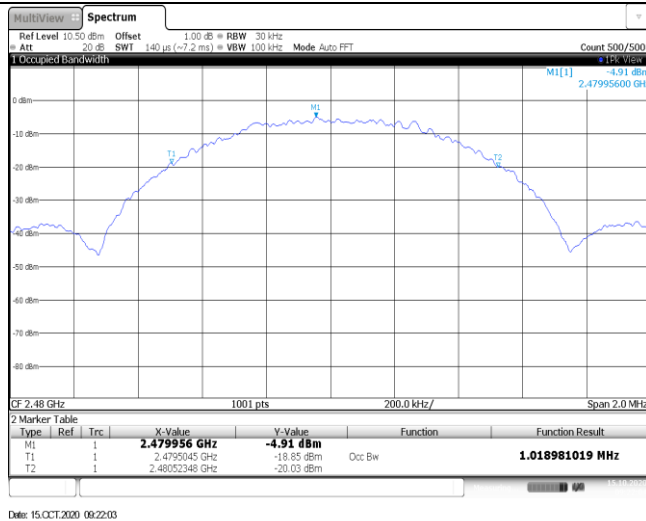
CH00



CH19

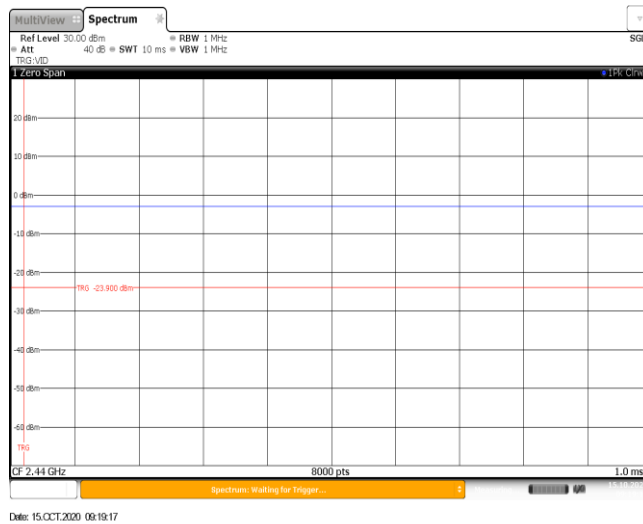


CH39

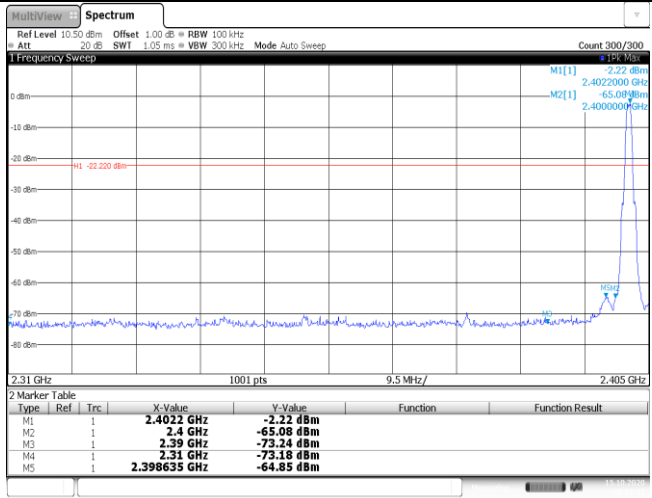
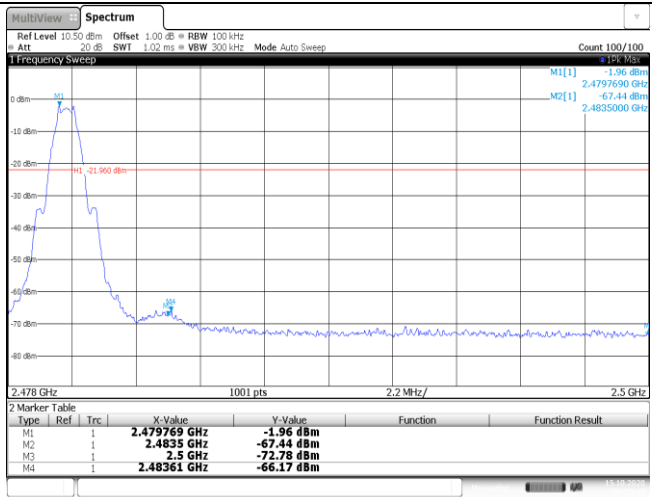


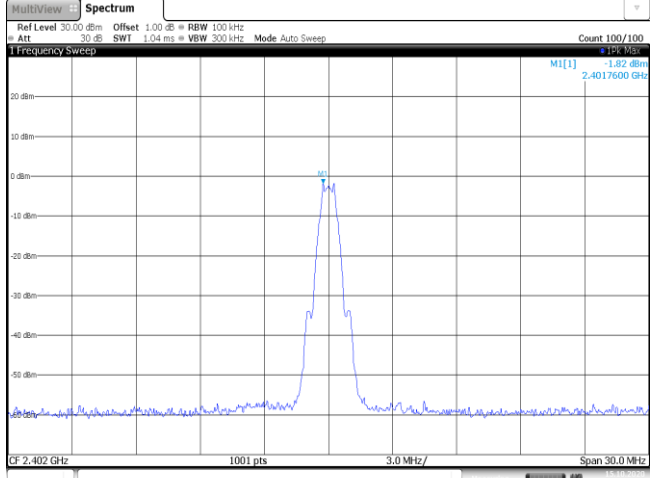
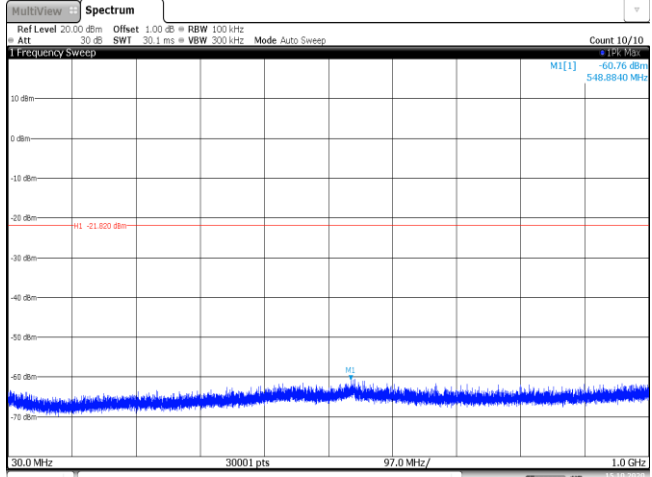
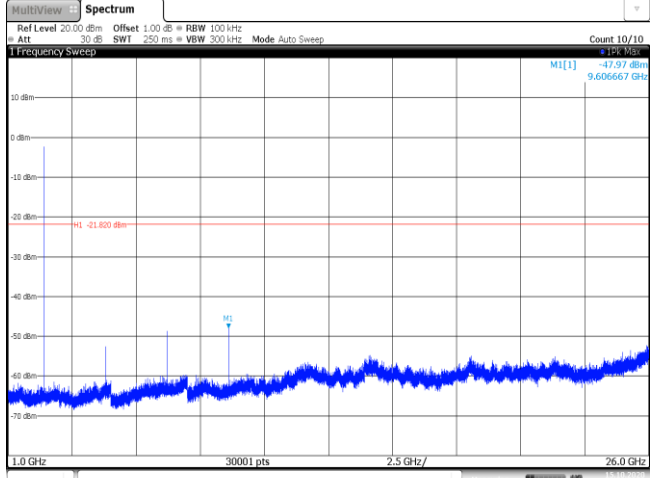
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1.0

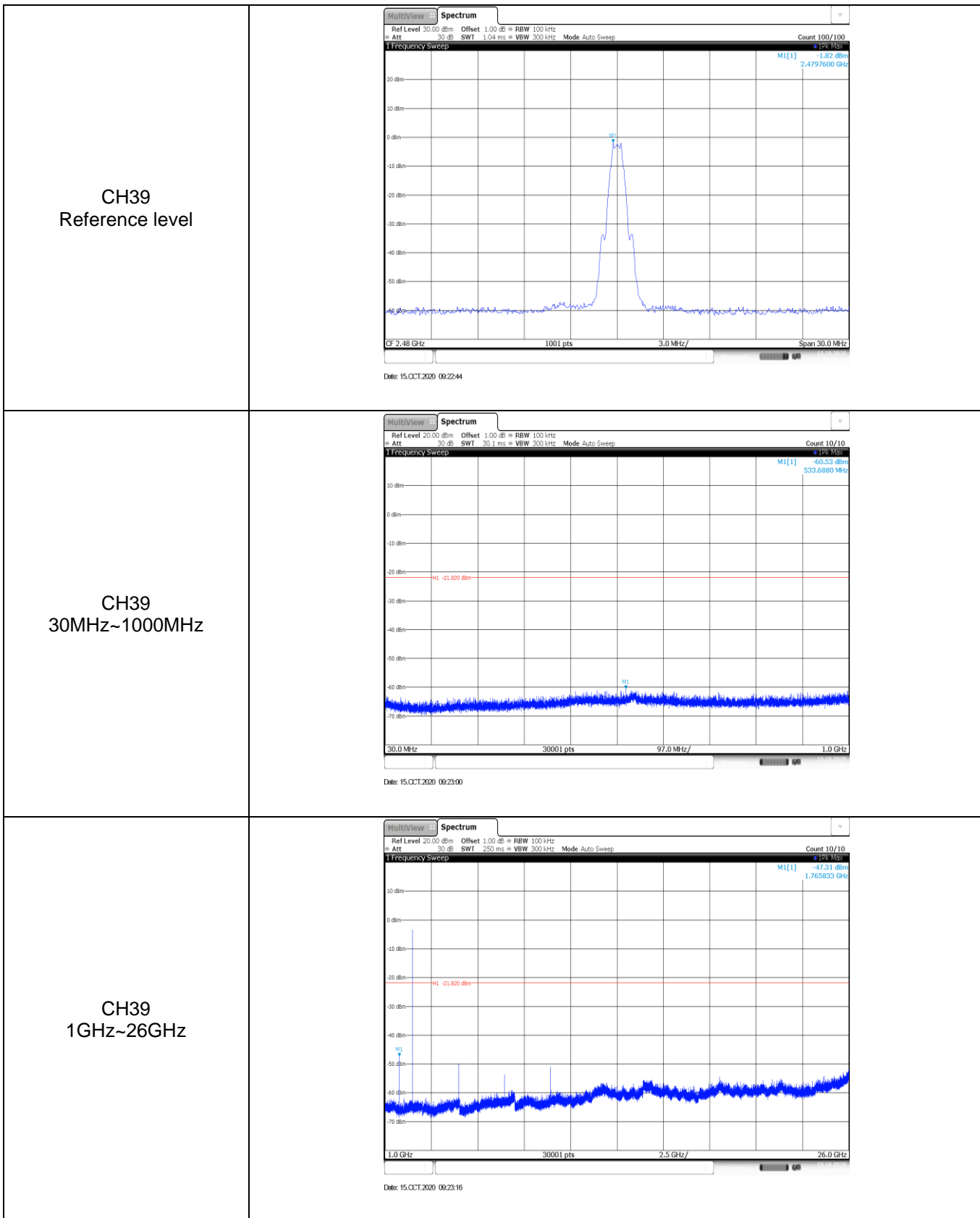


Appendix F: Band edge and Spurious Emissions (conducted)

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>2.4022 GHz</td> <td>-2.22 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-65.08 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-73.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-73.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.398635 GHz</td> <td>-64.85 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 15.OCT.2020 09:27:43</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.4022 GHz	-2.22 dBm			M2	1		2.4 GHz	-65.08 dBm			M3	1		2.39 GHz	-73.34 dBm			M4	1		2.31 GHz	-73.18 dBm			M5	1		2.398635 GHz	-64.85 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>15.OCT.2020 09:14:22</p>
<p>CH00 30MHz~1000MHz</p>	 <p>15.OCT.2020 09:14:38</p>
<p>CH00 1GHz~26GHz</p>	 <p>15.OCT.2020 09:14:54</p>

<p>CH19 Reference level</p>	<p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] -1.96 dBm 2.4397600 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 15.OCT.2020 09:19:48</p>
<p>CH19 30MHz~1000MHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.17 dBm 990.0900 MHz M1 -21.900 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 15.OCT.2020 09:20:05</p>
<p>CH19 1GHz~26GHz</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -48.33 dBm 9.760833 GHz M1 -21.900 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 15.OCT.2020 09:20:21</p>



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