

APPENDIX REPORT

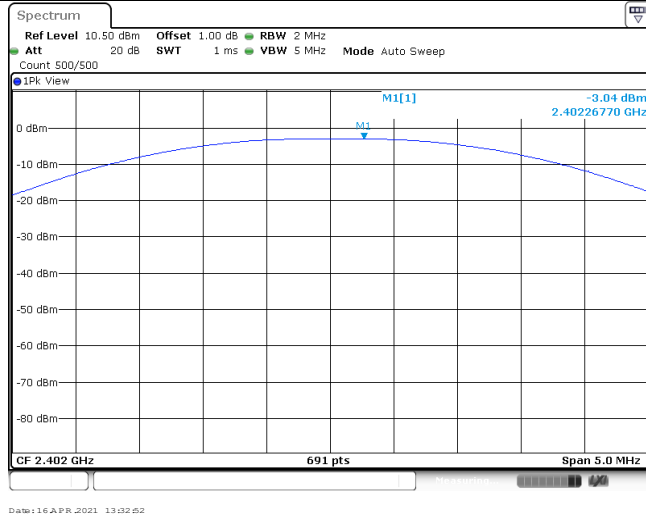
Project No.	SHT2102012604EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21020126002	Model No.	MaxTV PPX720
Start test date	2021-04-16	Finish date	2021-04-16
Temperature	23.6°C	Humidity	43%
Test Engineer	Qizhi Zhang	Auditor	Xiaodong Zhu

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

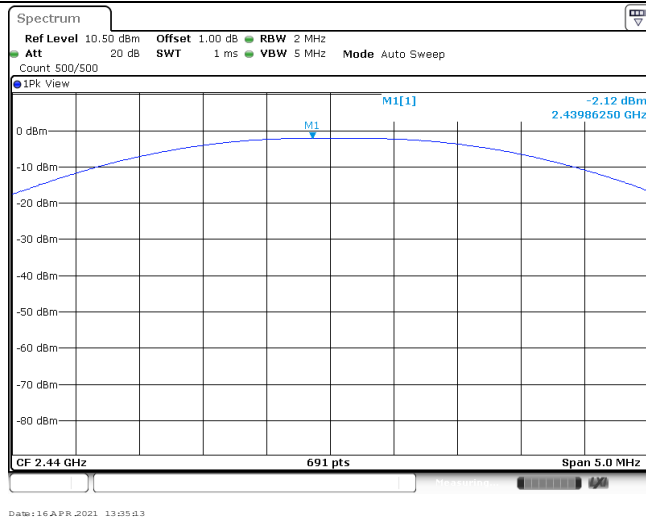
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.04	-3.05	≤ 30.00	Pass
	19	-2.12	-2.13		
	39	-1.34	-1.35		

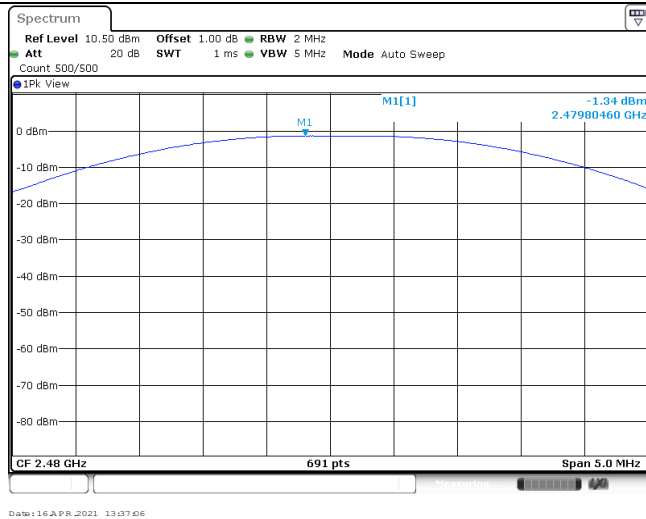
CH00



CH19

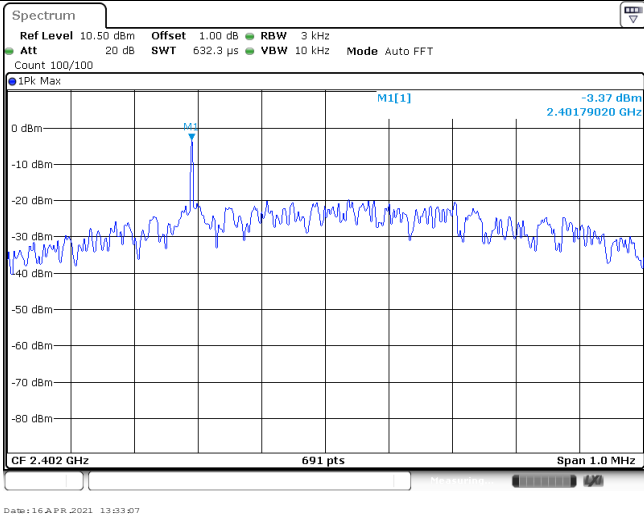
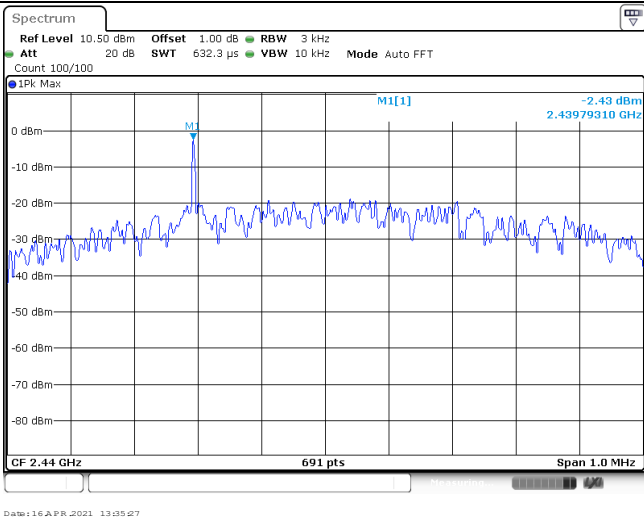
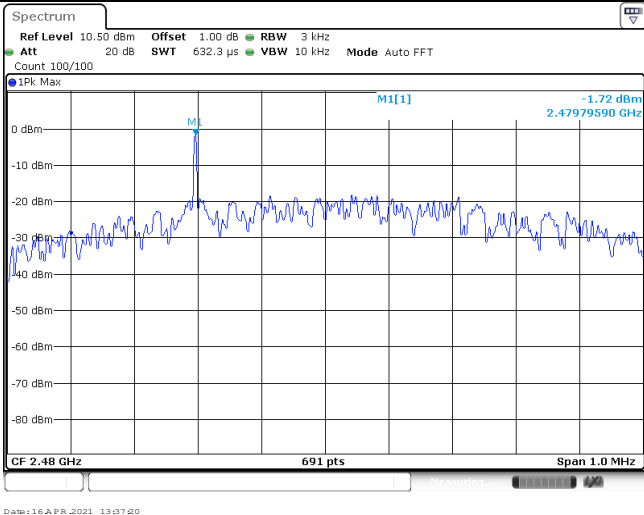


CH39



Appendix B: Power Spectral Density

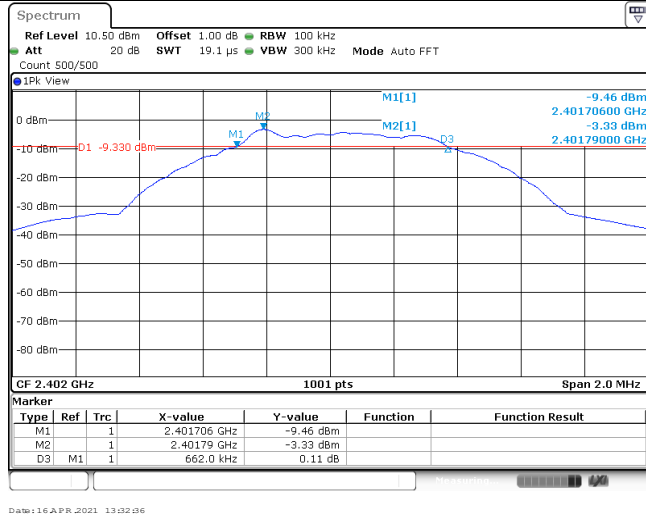
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-3.37	≤8.00	Pass
	19	-2.43		
	39	-1.72		

CH00	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -3.37 dBm 2.40179020 GHz</p> <p>CF 2.402 GHz 691 pts Span 1.0 MHz</p> <p>Date: 16 APR 2021 13:33:07</p>
CH19	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -2.43 dBm 2.43979310 GHz</p> <p>CF 2.44 GHz 691 pts Span 1.0 MHz</p> <p>Date: 16 APR 2021 13:35:27</p>
CH39	 <p>Spectrum</p> <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 20 dB SWT 632.3 μs VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max</p> <p>M1[1] -1.72 dBm 2.47979590 GHz</p> <p>CF 2.48 GHz 691 pts Span 1.0 MHz</p> <p>Date: 16 APR 2021 13:37:20</p>

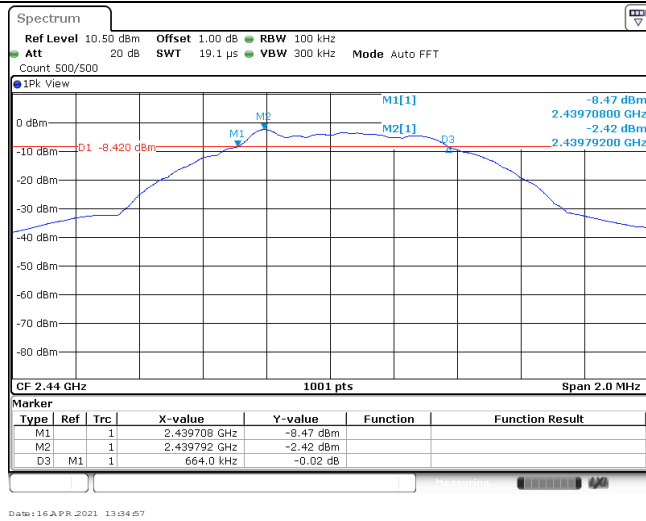
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	662.00	≥500	Pass
	19	664.00		
	39	664.00		

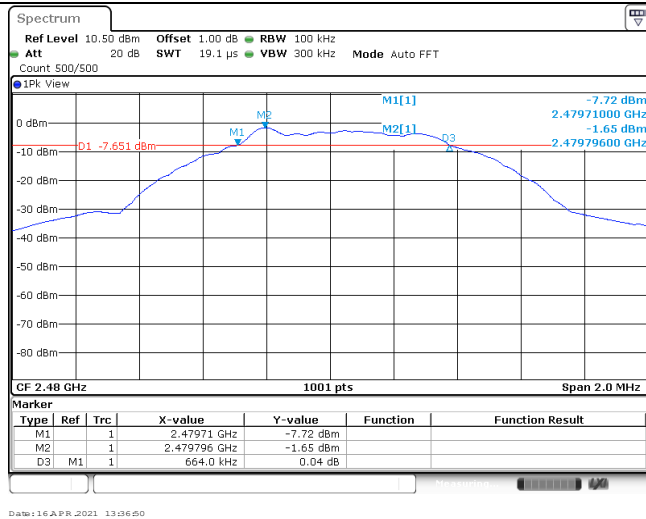
CH00



CH19

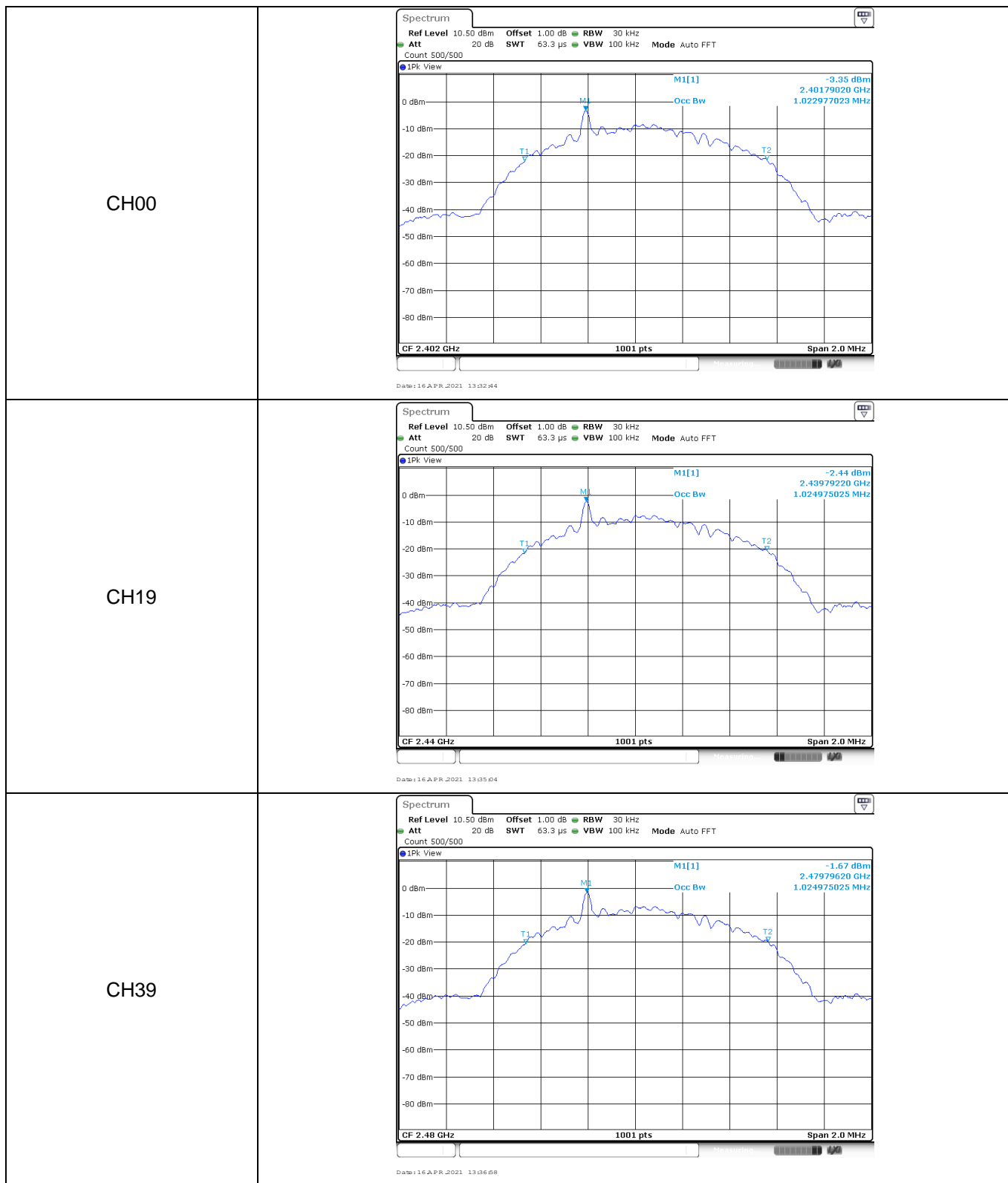


CH39



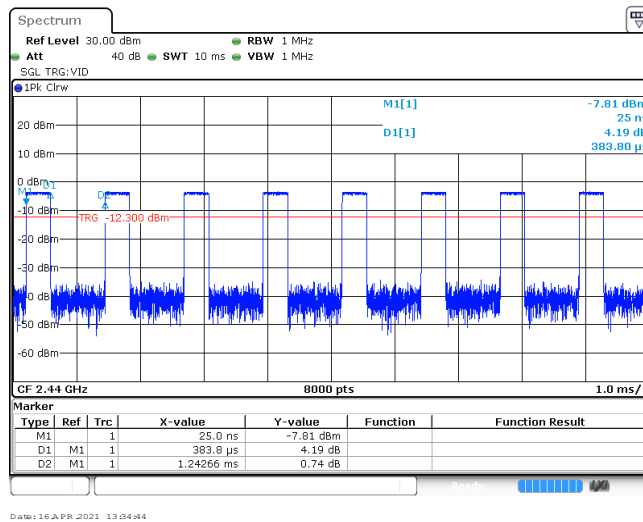
Appendix D: 99% Occupied Bandwidth

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



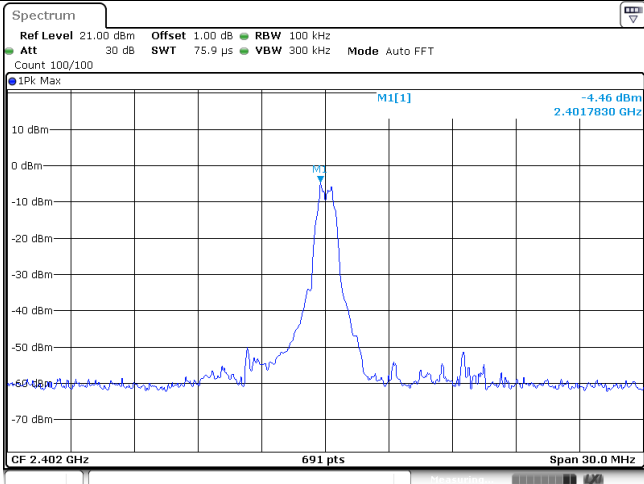
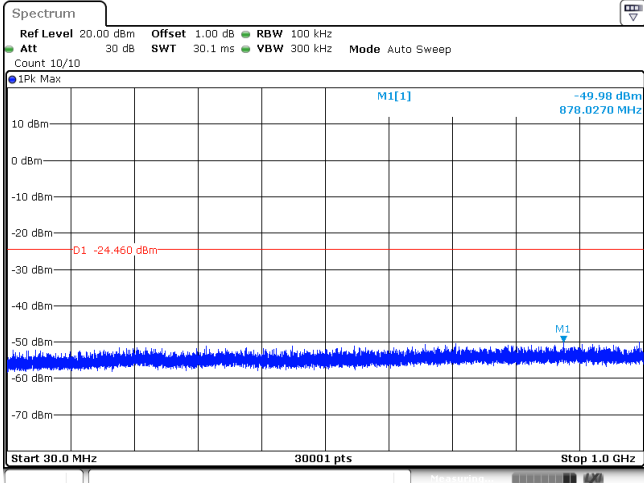
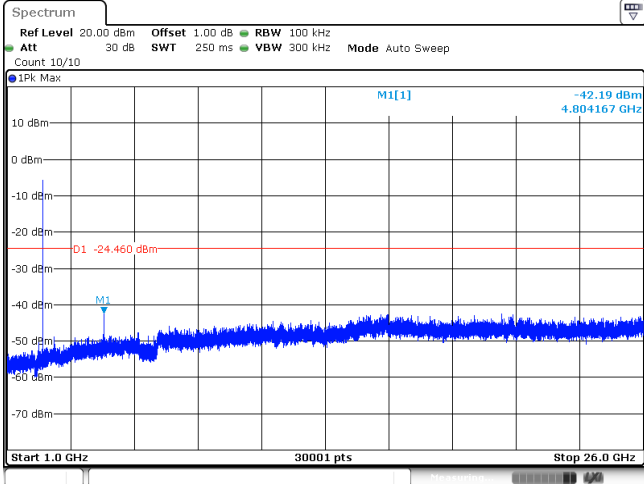
Appendix E: Duty cycle

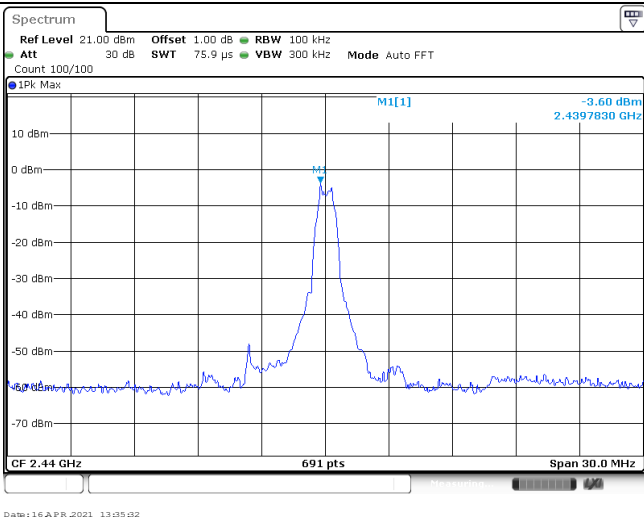
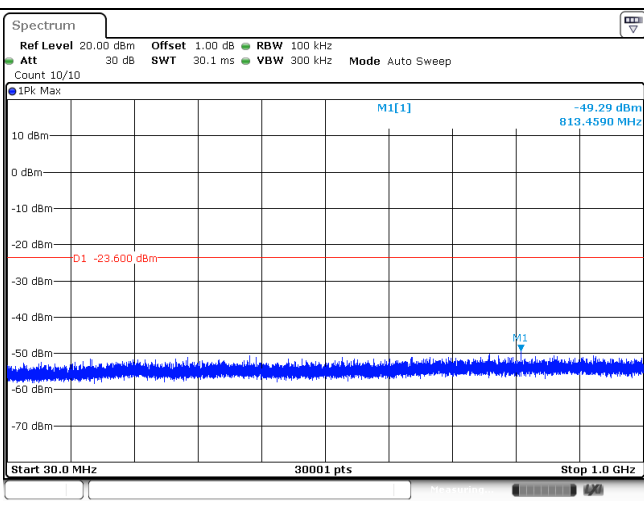
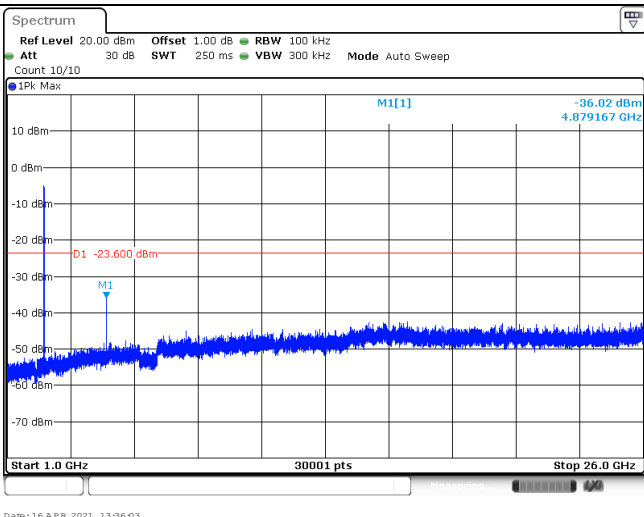
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.38	1.24	30.6%	2.6



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																																
<p style="text-align: center;">CH00</p>	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1Pk Max</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td>2.40177 GHz</td> <td>-3.59 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-51.13 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-63.98 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-61.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.398529 GHz</td> <td>-50.07 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</p> <p>Date: 16 APR 2021 13:33:16</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40177 GHz	-3.59 dBm			M2	1			2.4 GHz	-51.13 dBm			M3	1			2.39 GHz	-63.98 dBm			M4	1			2.31 GHz	-61.93 dBm			M5	1			2.398529 GHz	-50.07 dBm		
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<p style="text-align: center;">CH39</p>	 <p>Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td>2.479799 GHz</td> <td>-1.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-59.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-69.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.4847594 GHz</td> <td>-57.12 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Start 2.478 GHz 691 pts Stop 2.5 GHz</p> <p>Date: 16 APR 2021 13:37:29</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.479799 GHz	-1.71 dBm			M2	1			2.4835 GHz	-59.53 dBm			M3	1			2.5 GHz	-69.46 dBm			M4	1			2.4847594 GHz	-57.12 dBm										
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Test Item:	SE
CH00 Reference level	 <p>Spectrum</p> <p>Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>M1[1] -4.46 dBm 2.4017830 GHz</p> <p>CF 2.402 GHz 691 pts Span 30.0 MHz</p> <p>Date: 16 APR. 2021 13:33:22</p>
CH00 30MHz~1000MHz	 <p>Spectrum</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</p> <p>1Pk Max</p> <p>M1[1] -49.98 dBm 878.0270 MHz</p> <p>D1 -24.460 dBm</p> <p>M1</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 16 APR. 2021 13:33:37</p>
CH00 1GHz~26GHz	 <p>Spectrum</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</p> <p>1Pk Max</p> <p>M1[1] -42.19 dBm 4.804167 GHz</p> <p>D1 -24.460 dBm</p> <p>M1</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 16 APR. 2021 13:33:52</p>

<p>CH19 Reference level</p>	 <p>Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPK Max M1[1] -3.60 dBm 2.4397830 GHz CF 2.44 GHz 691 pts Span 30.0 MHz Date: 16 APR 2021 13:25:02</p>
<p>CH19 30MHz~1000MHz</p>	 <p>Spectrum 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 IPK Max M1[1] -49.29 dBm 813.4590 MHz D1 -23.600 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 16 APR 2021 13:25:47</p>
<p>CH19 1GHz~26GHz</p>	 <p>Spectrum 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 IPK Max M1[1] -36.02 dBm 4.079167 GHz D1 -23.600 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 16 APR 2021 13:26:03</p>

<p>CH39 Reference level</p>	
<p>CH39 30MHz~1000MHz</p>	
<p>CH39 1GHz~26GHz</p>	

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