

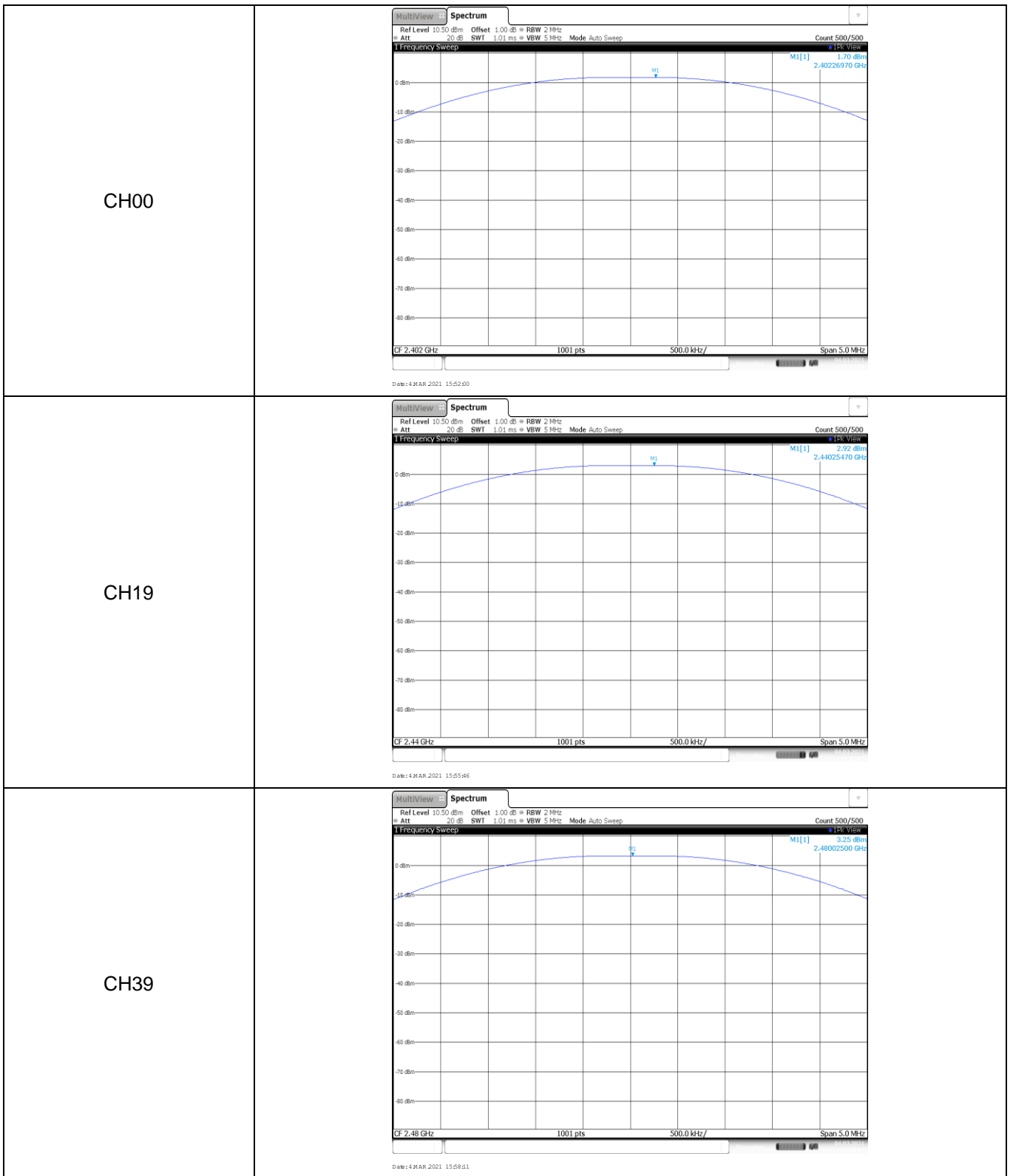
# APPENDIX REPORT

Project No.	SHT2009048109EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20090481014	Model No.	ABX00031
Start test date	2021-03-04	Finish date	2021-03-04
Temperature	23.5°C	Humidity	57%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhe

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	1.70	1.69	≤ 30.00	Pass
	19	2.92	2.91		
	39	3.25	3.23		



**Appendix B: Power Spectral Density**

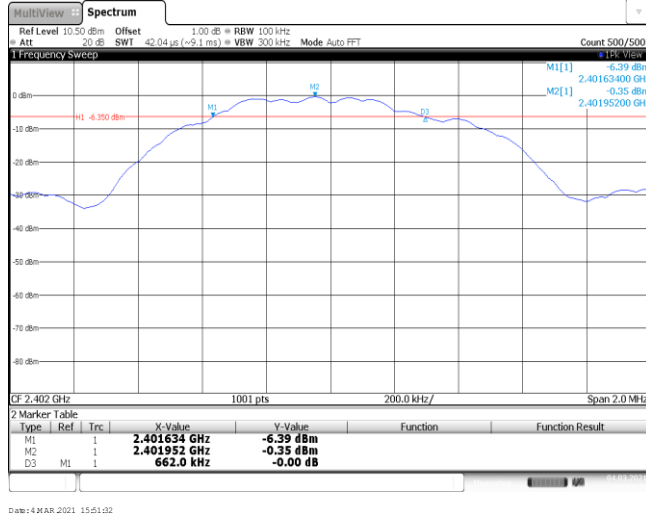
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-15.29	≤8.00	Pass
	19	-14.07		
	39	-13.48		

<p>CH00</p>	
<p>CH19</p>	
<p>CH39</p>	

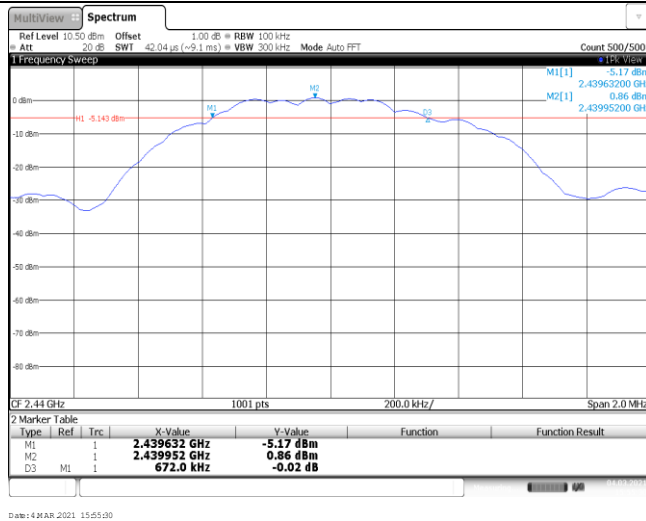
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	662.00	≥500	Pass
	19	672.00		
	39	782.00		

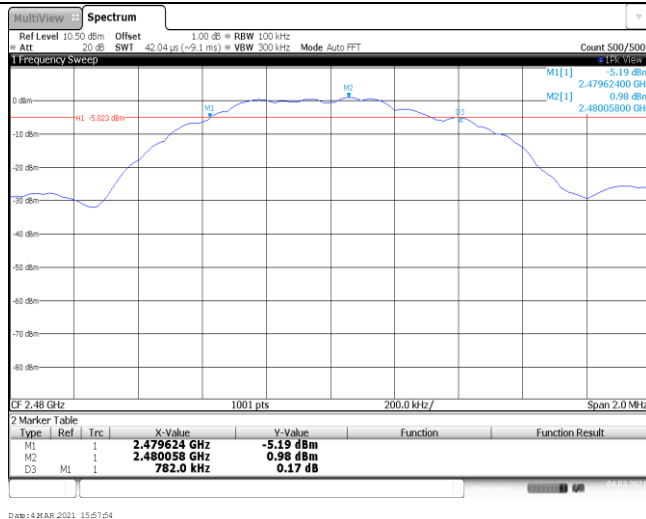
CH00



CH19



CH39

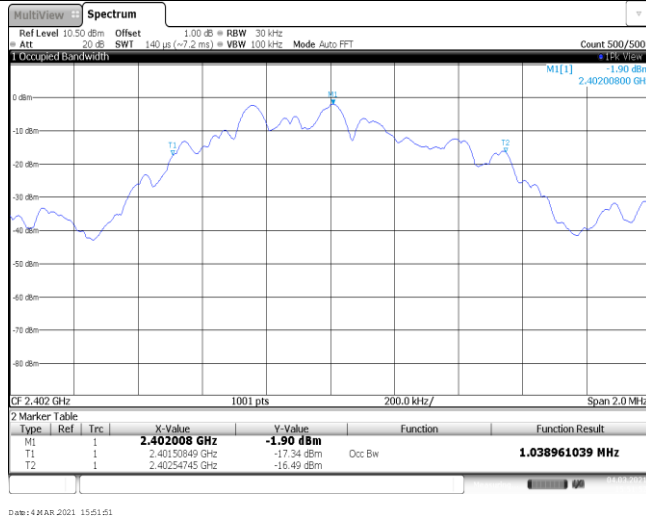


**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.04	-	Pass
	19	1.04		
	39	1.03		



CH00



CH19

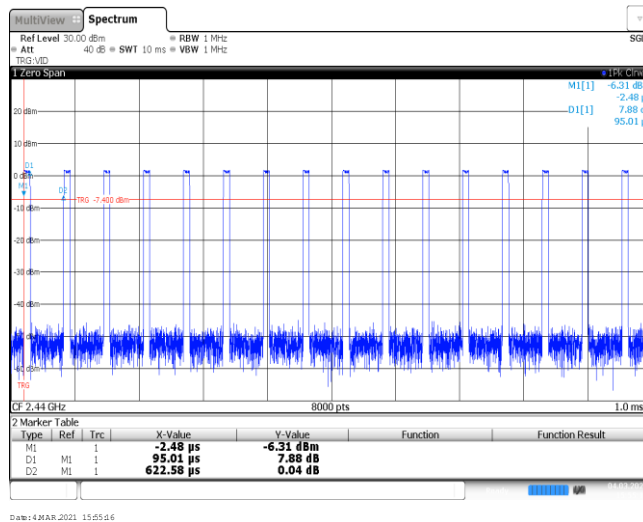


CH39

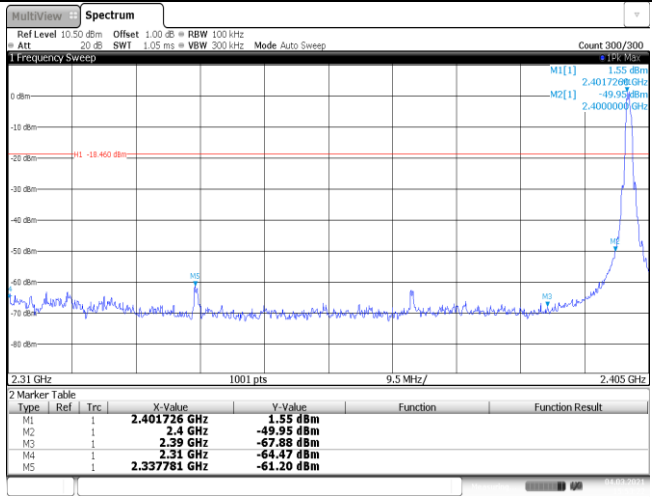
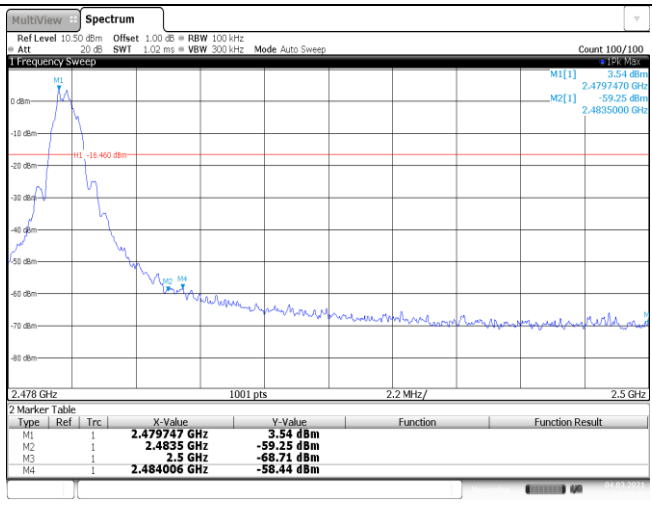


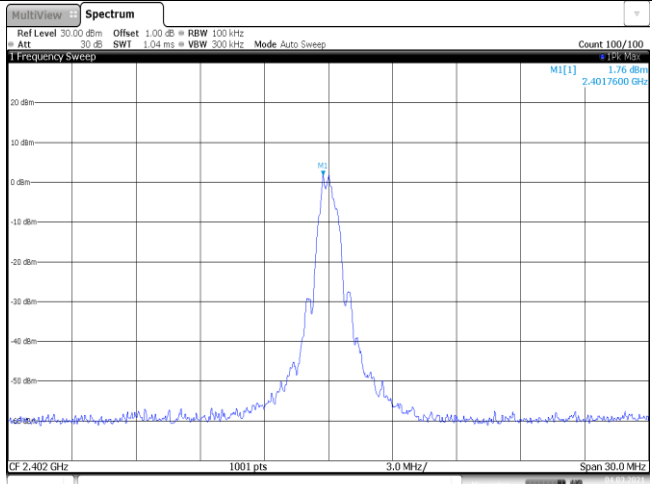
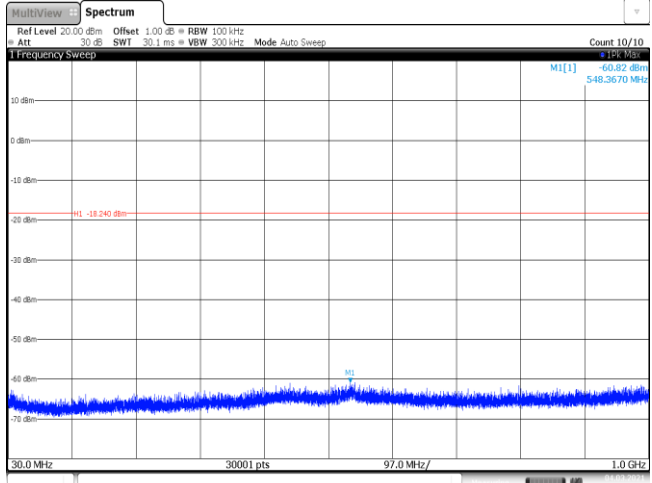
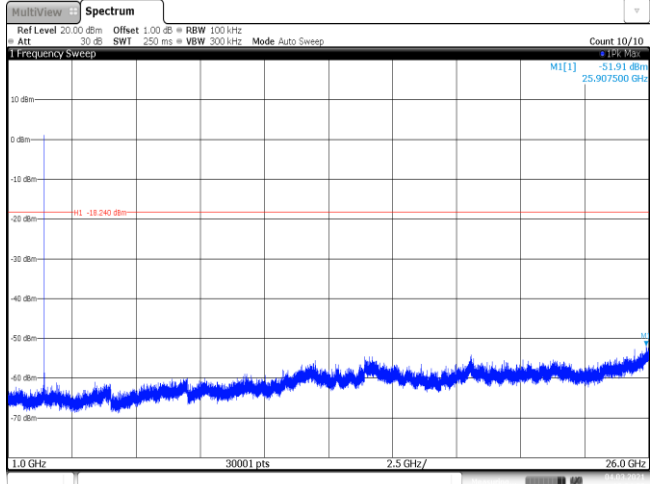
### Appendix E: Duty cycle

Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.10	0.62	16.1%	10.0

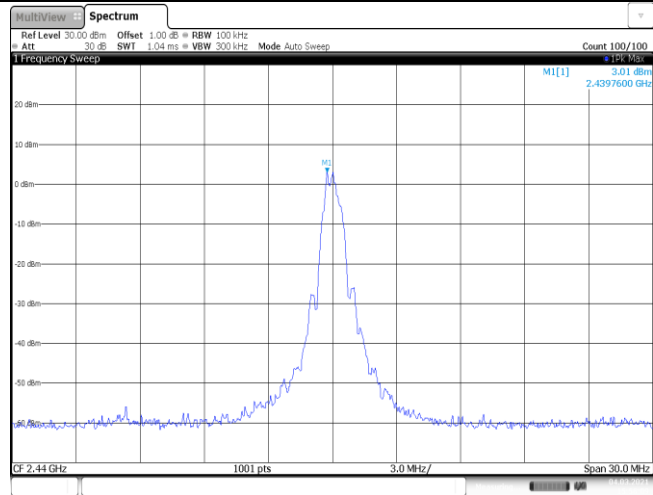


### Appendix F: Band edge and Spurious Emissions (conducted)

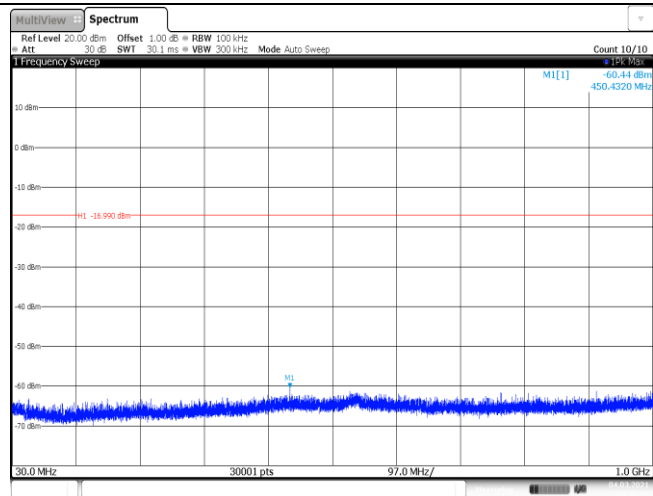
Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <table border="1" data-bbox="683 660 1337 772"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401726 GHz</td> <td>1.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-49.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.337781 GHz</td> <td>-61.20 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: small;">Date: 4 MAR 2021 15:53:22</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401726 GHz	1.55 dBm			M2	1		2.4 GHz	-49.95 dBm			M3	1		2.39 GHz	-57.88 dBm			M4	1		2.31 GHz	-64.47 dBm			M5	1		2.337781 GHz	-61.20 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>Date: 4 MAR 2021 15:53:30</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 4 MAR 2021 15:53:46</p>
<p>CH00 1GHz~26GHz</p>	 <p>Date: 4 MAR 2021 15:54:02</p>

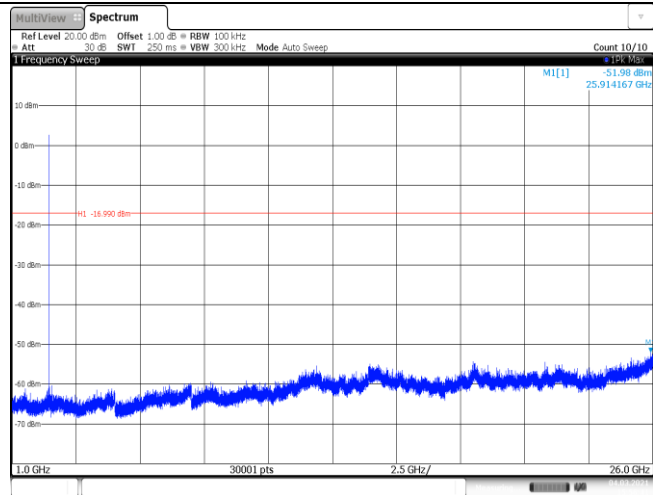
CH19  
Reference level

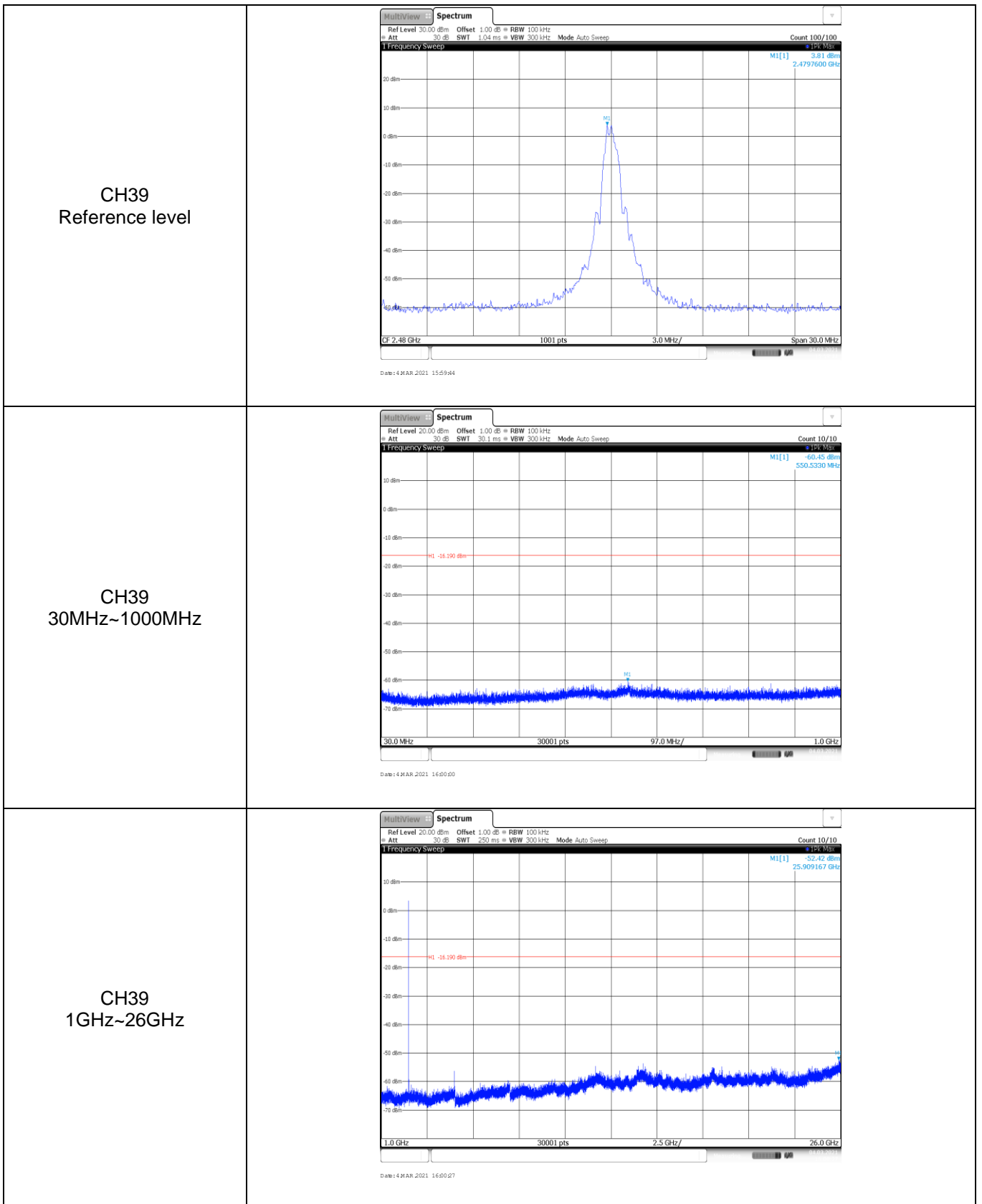


CH19  
30MHz~1000MHz



CH19  
1GHz~26GHz





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