

# APPENDIX REPORT

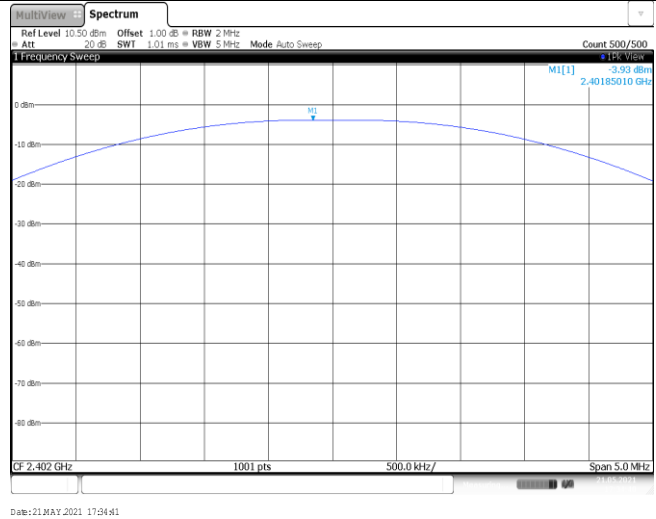
Project No.	SHT2104027102EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21040271011	Model No.	GP700Y
Start test date	2021-05-24	Finish date	2021-05-24
Temperature	26.4°C	Humidity	34%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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

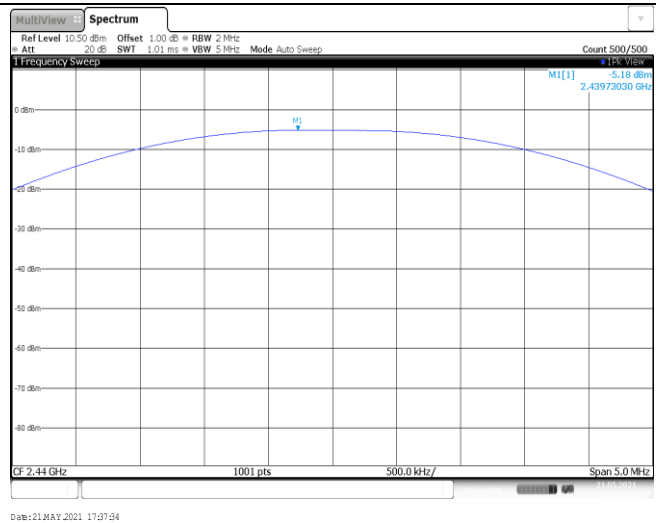
**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-3.93	-3.94	≤ 30.00	Pass
	19	-5.18	-5.19		
	39	-4.62	-4.64		

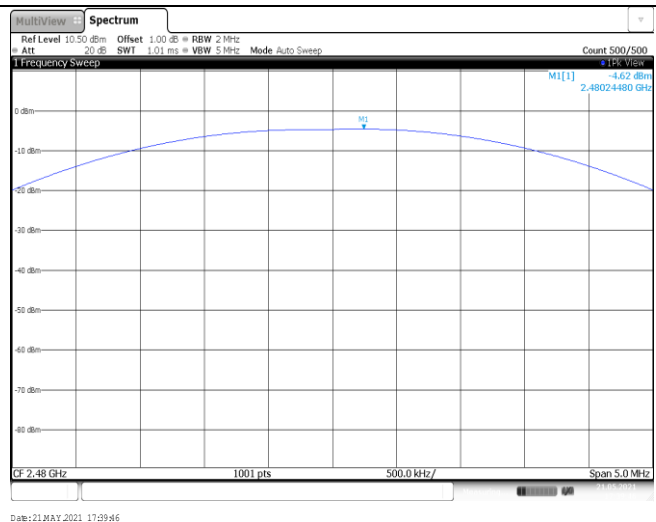
CH00



CH19



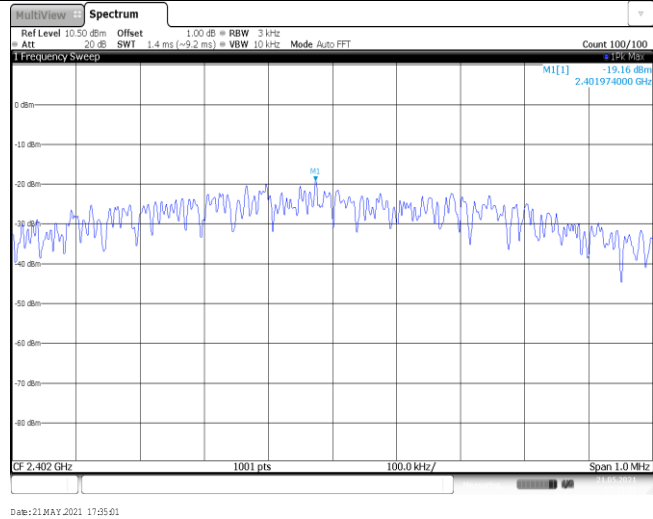
CH39



**Appendix B: Power Spectral Density**

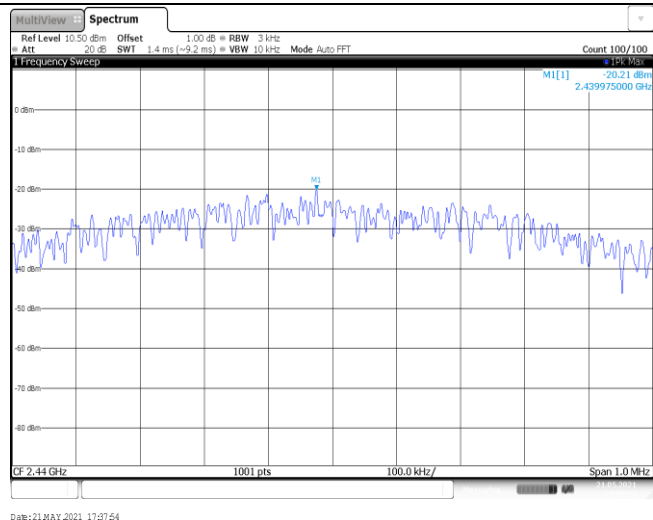
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-19.16	≤8.00	Pass
	19	-20.21		
	39	-19.86		

CH00



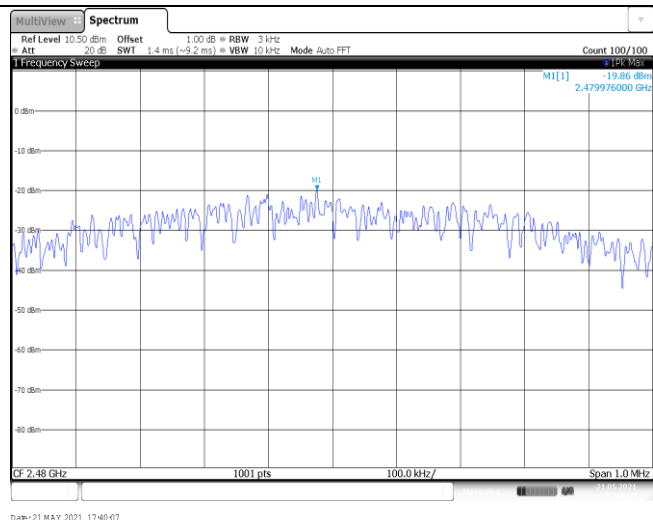
Date: 21 MAY 2021 17:05:01

CH19



Date: 21 MAY 2021 17:07:04

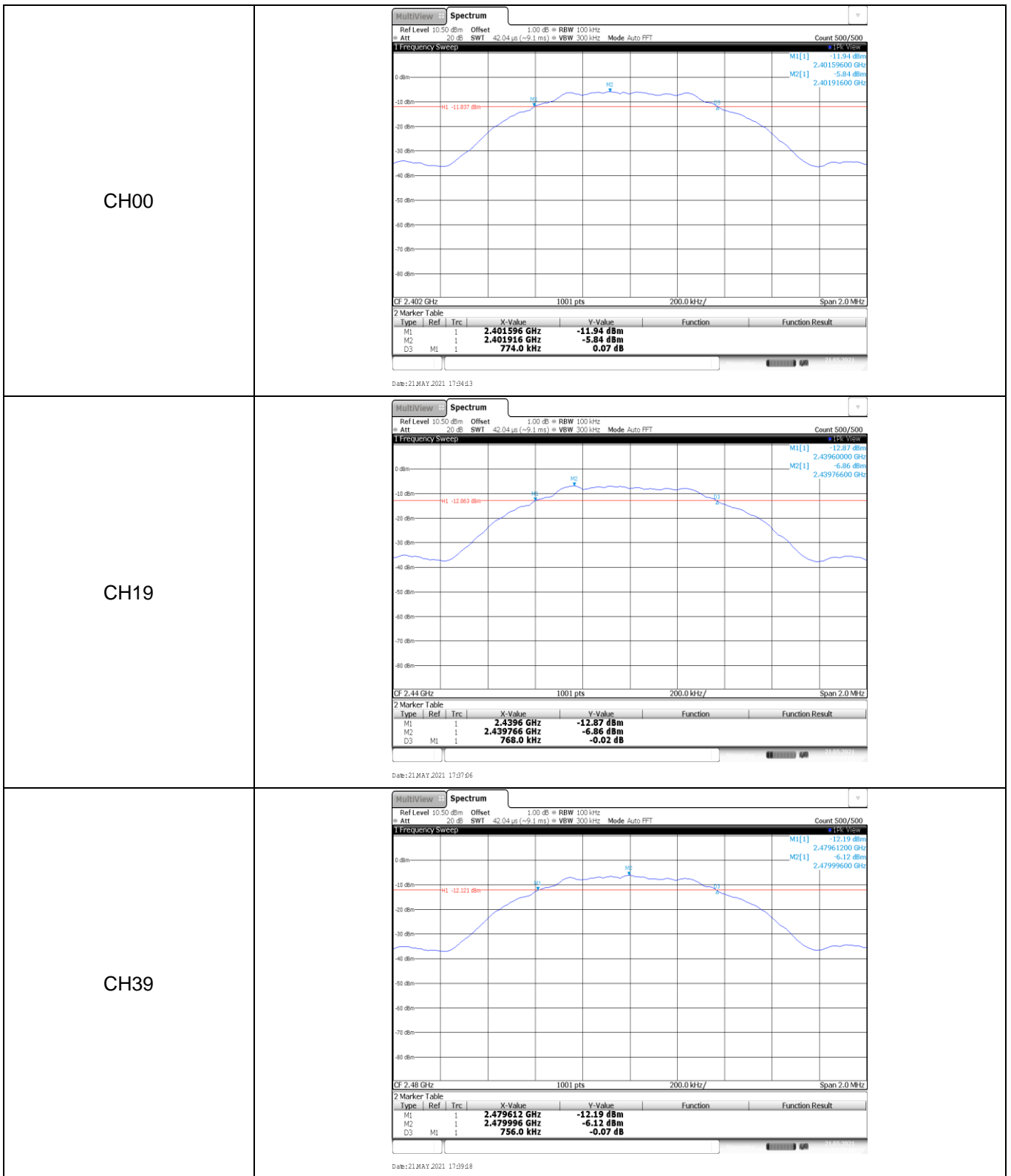
CH39



Date: 21 MAY 2021 17:00:07

**Appendix C: 6dB bandwidth**

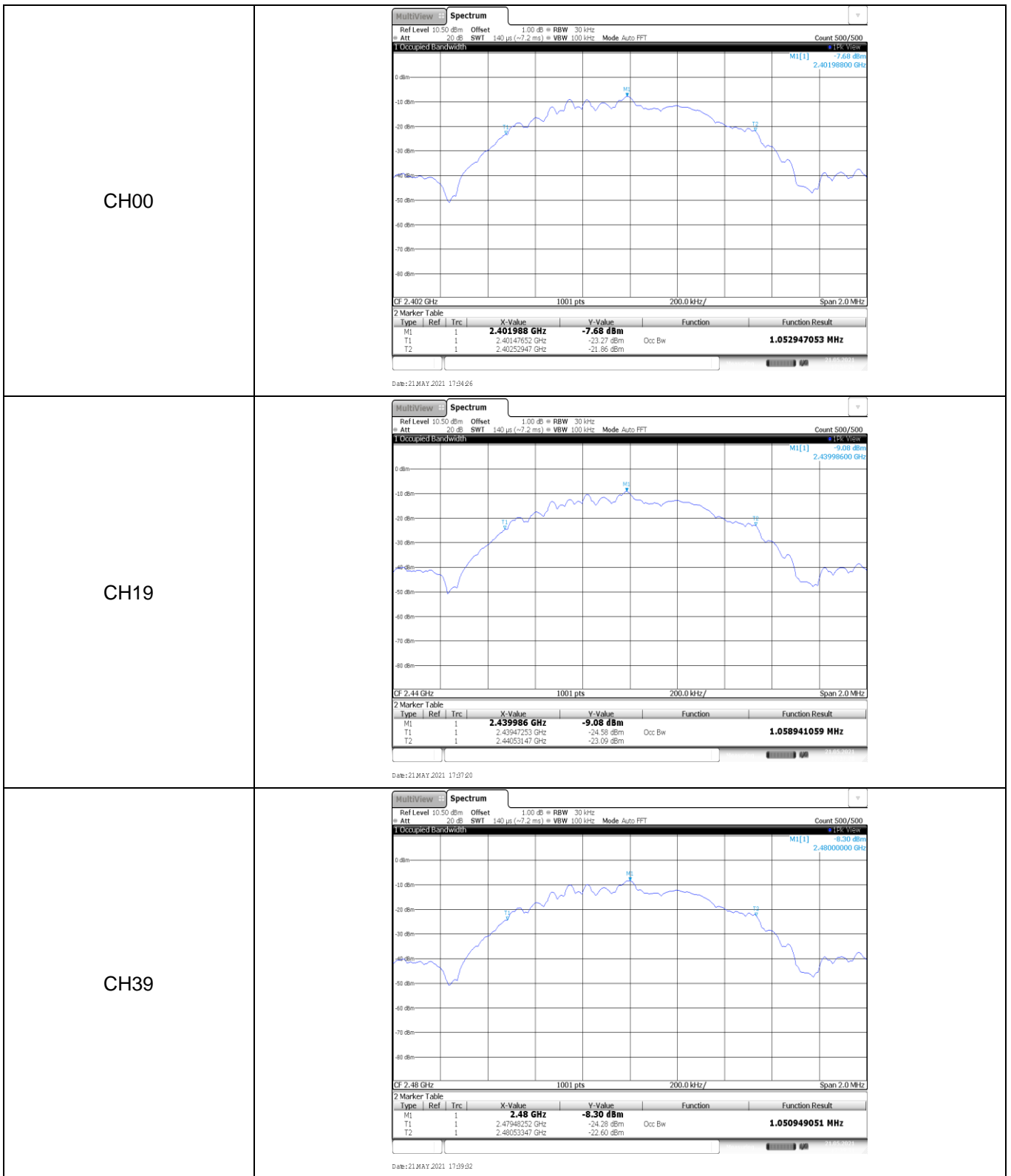
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	774.00	≥500	Pass
	19	768.00		
	39	756.00		



**Appendix D: 99% Occupied Bandwidth**

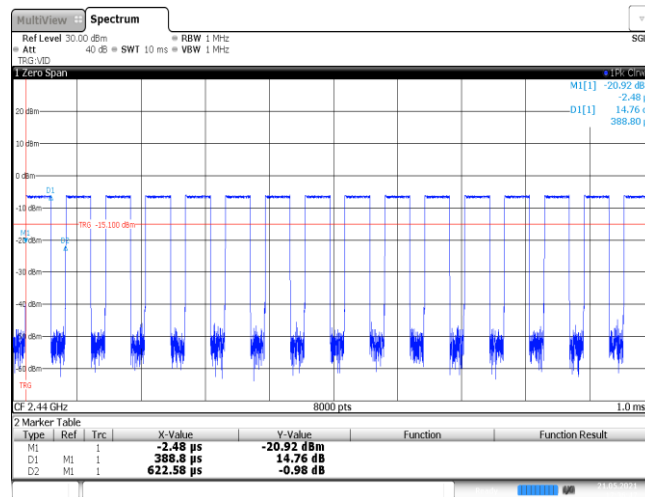
Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.06		
	39	1.05		





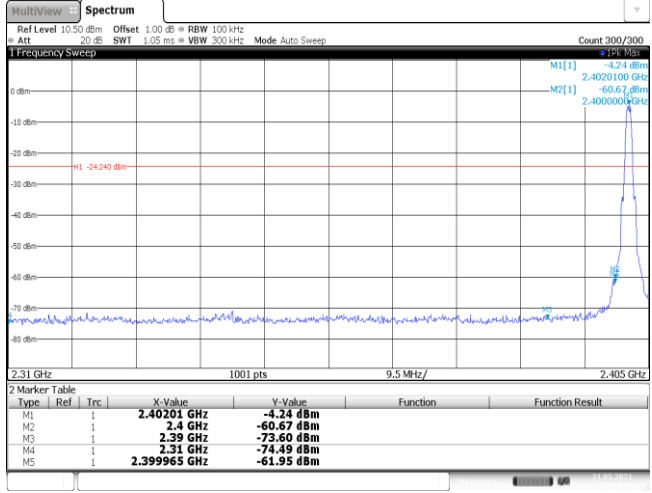
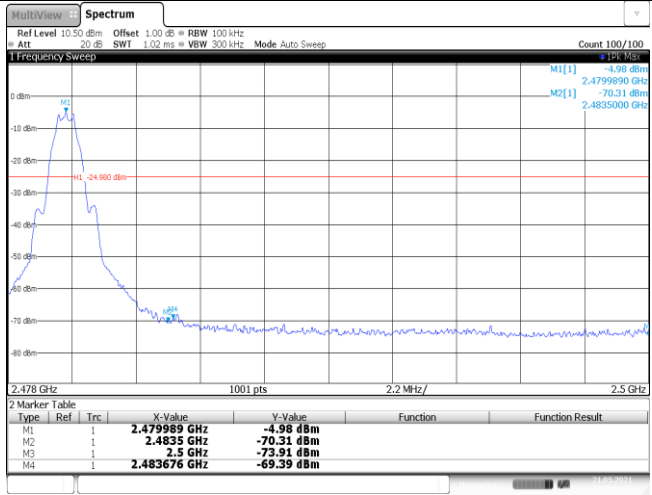
### Appendix E: Duty cycle

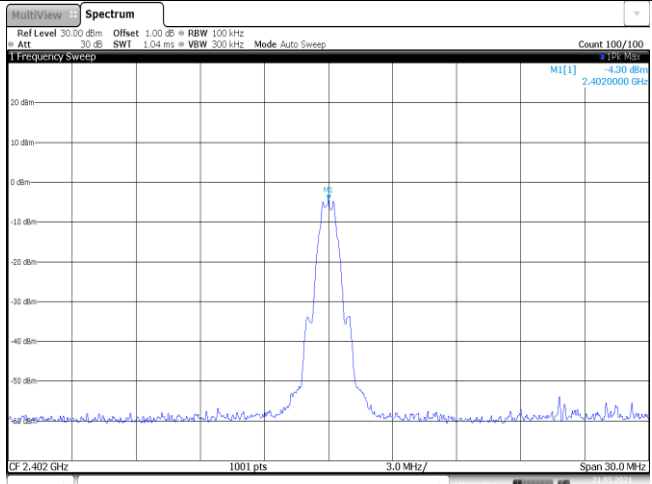
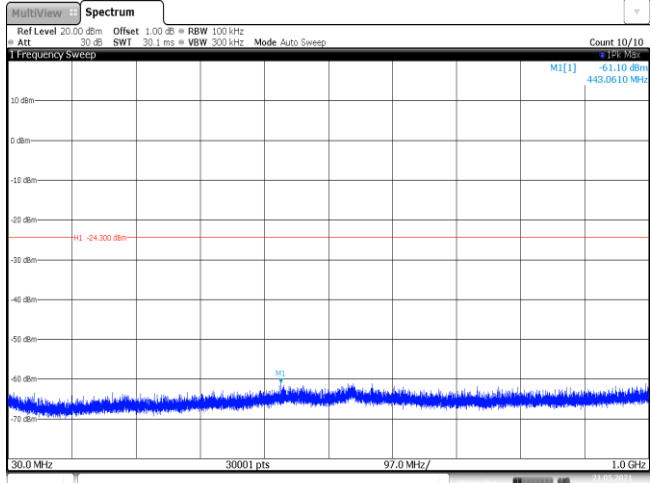
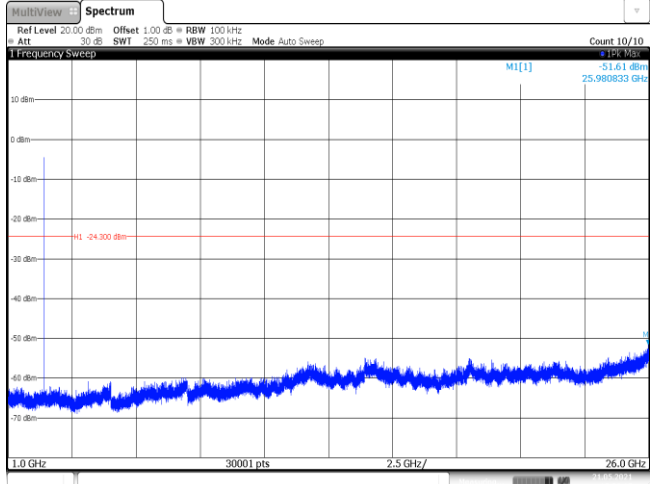
Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.39	0.62	62.9%	2.6

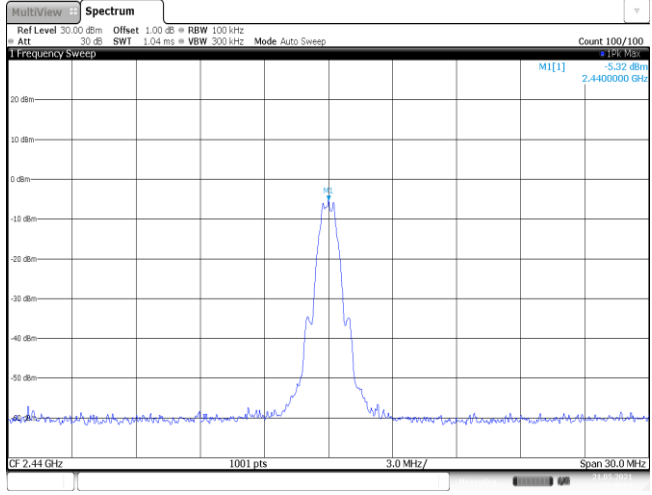
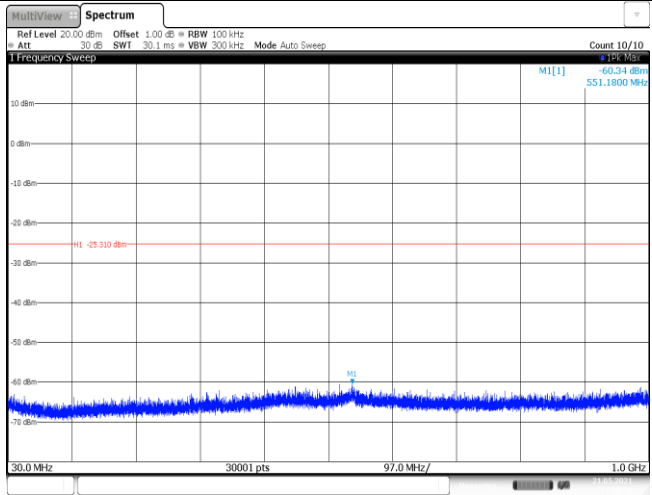
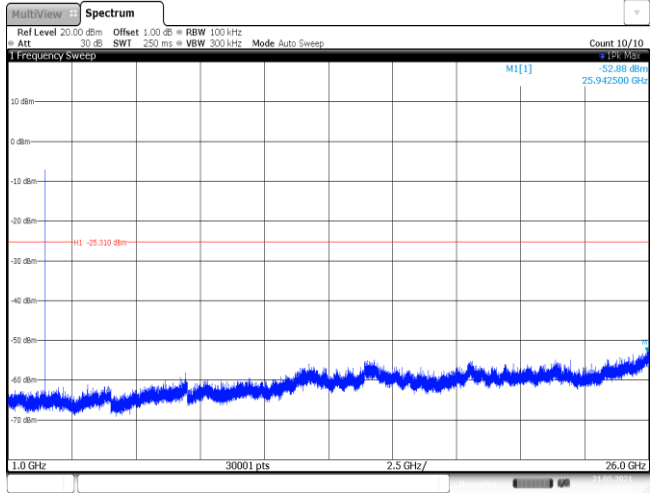


Date: 21 MAY 2021 17:56:47

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

Test Item:	Band edge																																										
<p>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>2.40201 GHz</td> <td>-4.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-60.67 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-73.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-74.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-61.95 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 21 MAY 2021 17:35:16</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-4.24 dBm			M2	1		2.4 GHz	-60.67 dBm			M3	1		2.39 GHz	-73.60 dBm			M4	1		2.31 GHz	-74.49 dBm			M5	1		2.399965 GHz	-61.95 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>Date: 21.MAY.2021 17:35:34</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Date: 21.MAY.2021 17:35:56</p>
<p>CH00 1GHz~26GHz</p>	 <p>Date: 21.MAY.2021 17:36:47</p>

<p>CH19 Reference level</p>	 <p>The spectrum plot shows a single sharp peak at 2.44 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz centered at 2.44 GHz. The peak is labeled M1[1] with a value of -5.32 dBm. The plot includes parameters: 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. The date is 21 MAY 2021 17:58:49.</p>
<p>CH19 30MHz~1000MHz</p>	 <p>The spectrum plot shows a noise floor across the 30 MHz to 1000 MHz range. The y-axis ranges from -80 to 10 dBm. The x-axis ranges from 30.0 MHz to 1.0 GHz. A red horizontal line is drawn at -25.310 dBm. A peak is labeled M1[1] with a value of -60.34 dBm at 551.1800 MHz. The plot includes parameters: 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. The date is 21 MAY 2021 17:58:50.</p>
<p>CH19 1GHz~26GHz</p>	 <p>The spectrum plot shows a noise floor across the 1 GHz to 26 GHz range. The y-axis ranges from -80 to 10 dBm. The x-axis ranges from 1.0 GHz to 26.0 GHz. A red horizontal line is drawn at -25.310 dBm. A peak is labeled M1[1] with a value of -52.88 dBm at 25.942500 GHz. The plot includes parameters: 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. The date is 21 MAY 2021 17:58:52.</p>

<p>CH39 Reference level</p>	<p>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 MI[1] -4.79 dBm 2.480000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 21 MAY 2021 17:40:37</p>
<p>CH39 30MHz~1000MHz</p>	<p>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 MI[1] -60.98 dBm 437.1120 MHz MI -24.790 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 21 MAY 2021 17:40:59</p>
<p>CH39 1GHz~26GHz</p>	<p>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 MI[1] -51.10 dBm 25.913333 GHz MI -24.790 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 21 MAY 2021 17:41:20</p>

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