

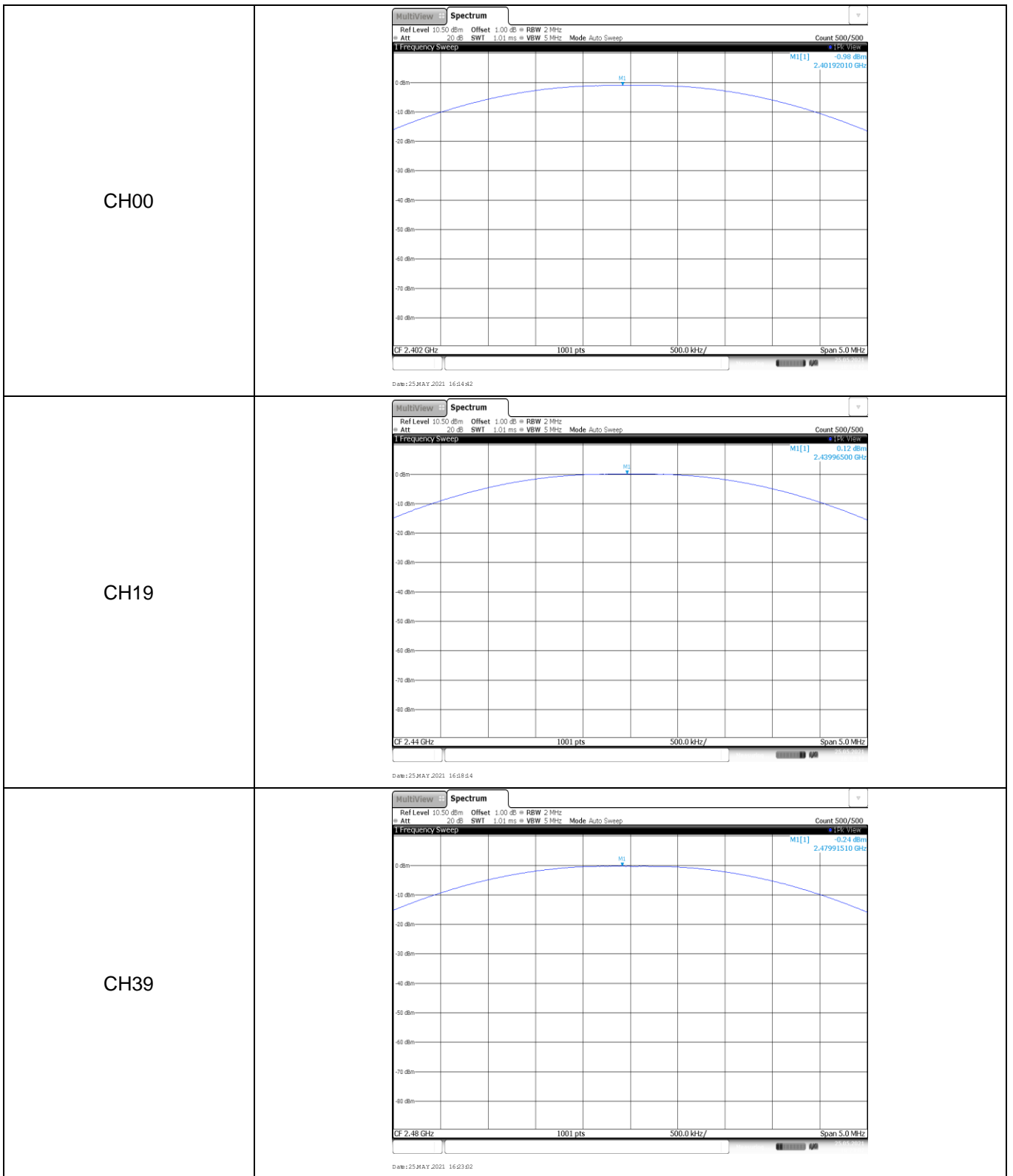
APPENDIX REPORT

Project No.	SHT2105014205EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21050142011	Model No.	ABX00053
Start test date	2021-05-25	Finish date	2021-05-25
Temperature	25.7°C	Humidity	37%
Test Engineer	Weiyang Xiang	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

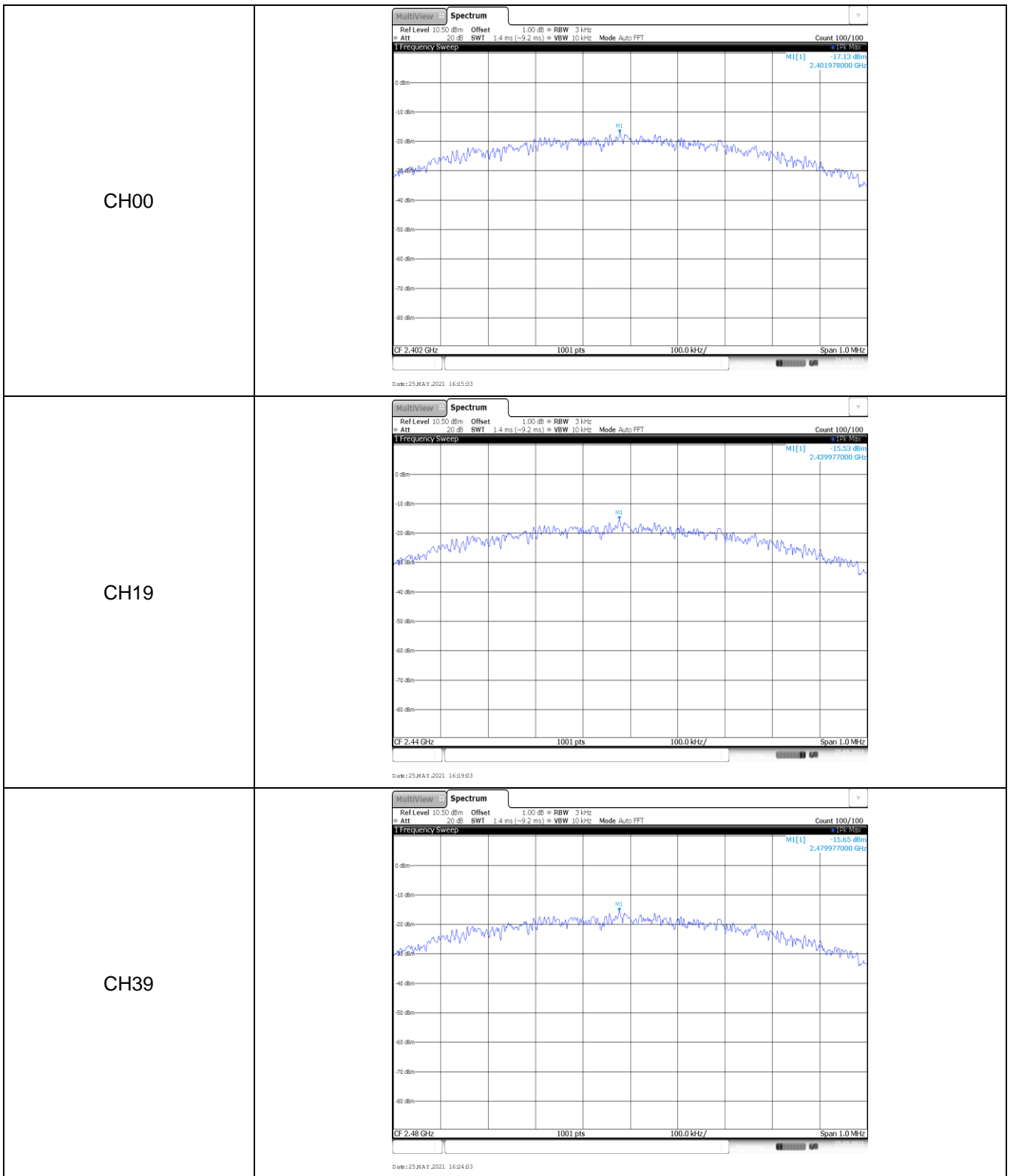
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-0.98	-0.99	≤ 30.00	Pass
	19	0.12	0.11		
	39	-0.24	-0.26		



Appendix B: Power Spectral Density

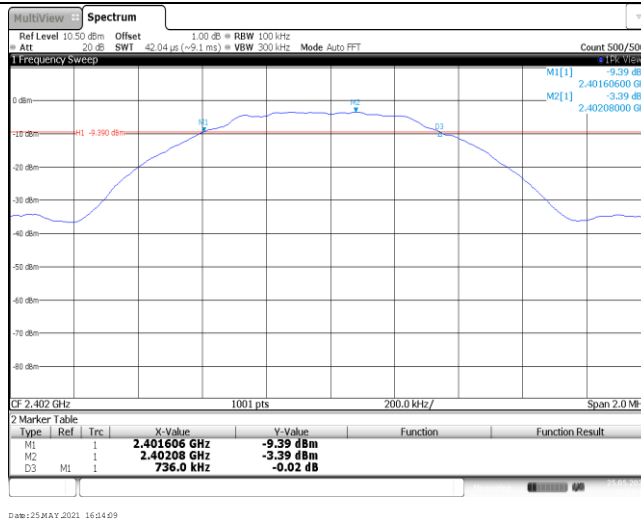
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-17.13	≤8.00	Pass
	19	-15.53		
	39	-15.65		



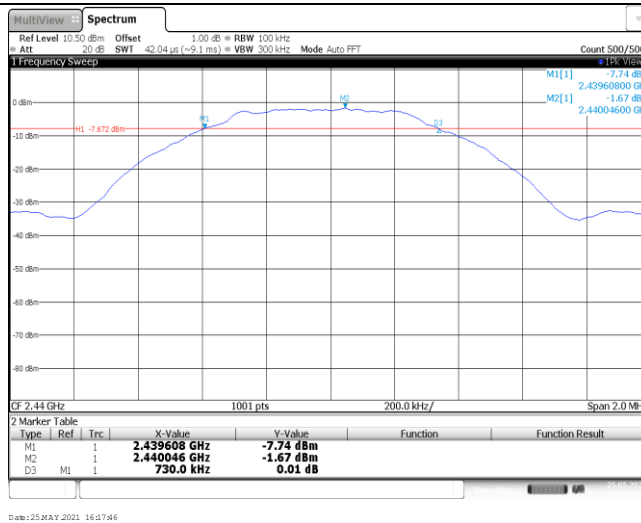
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	736.00	≥500	Pass
	19	730.00		
	39	716.00		

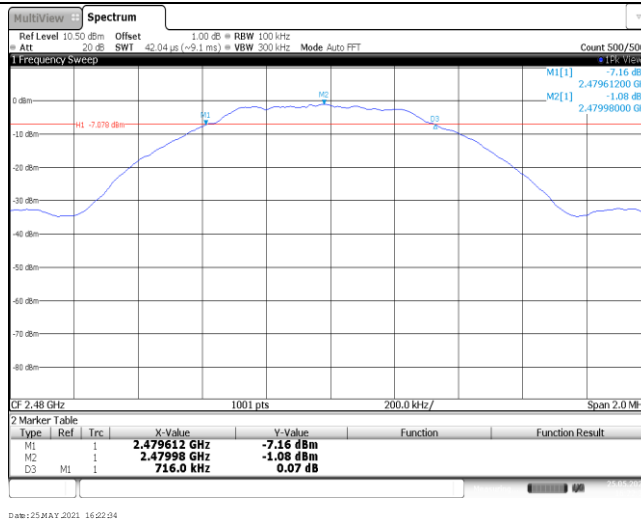
CH00



CH19



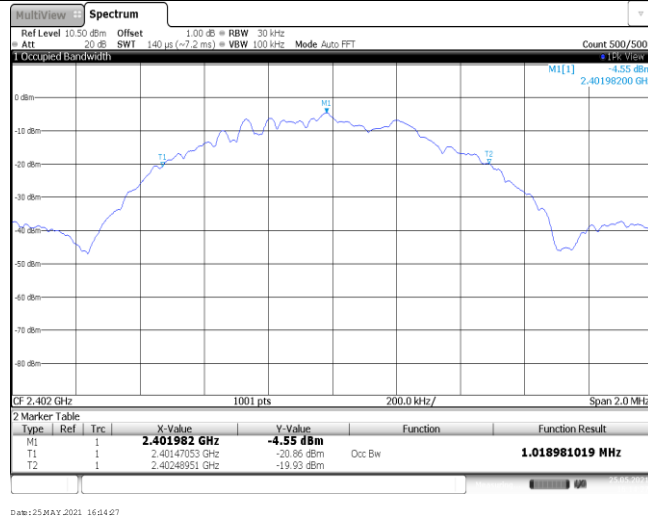
CH39



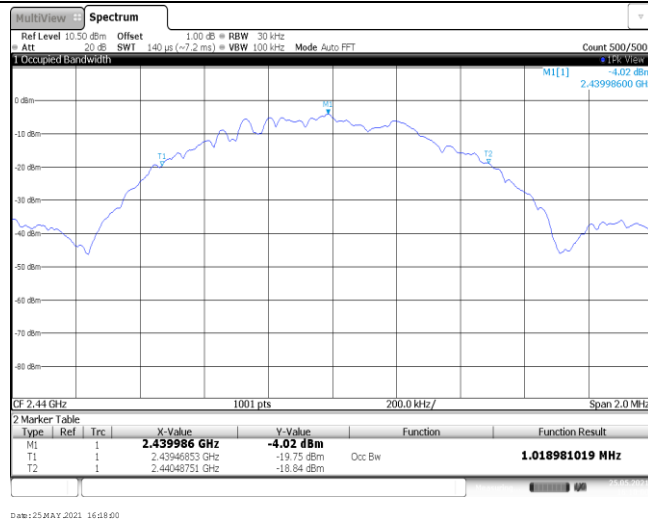
Appendix D: 99% Occupied Bandwidth

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

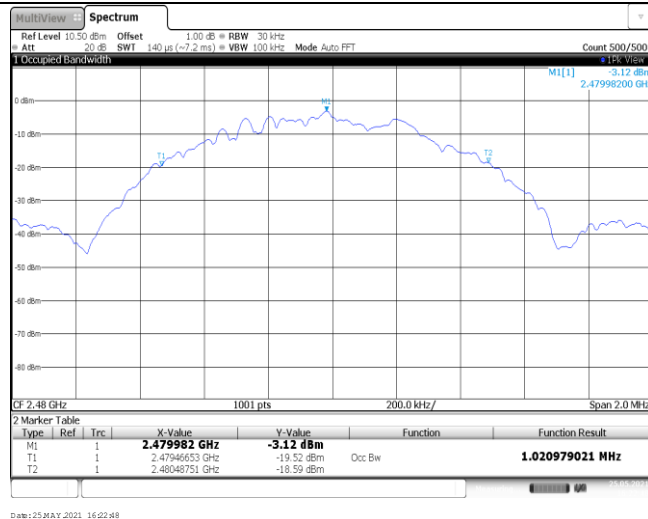
CH00



CH19

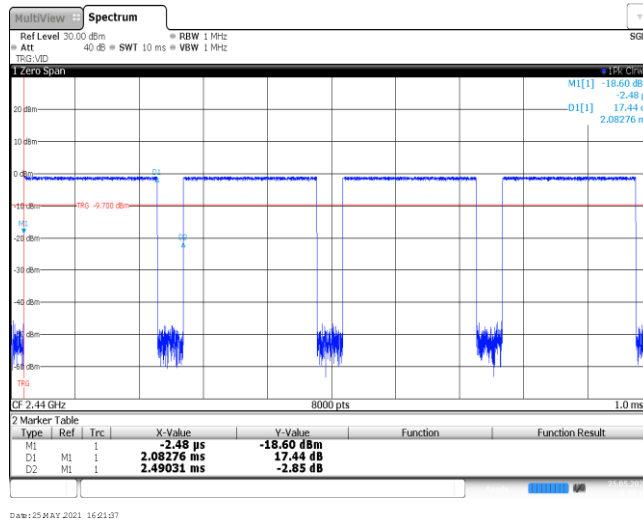


CH39



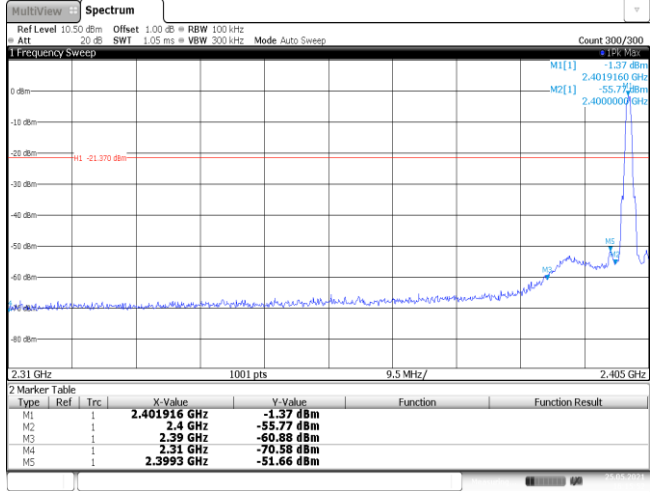
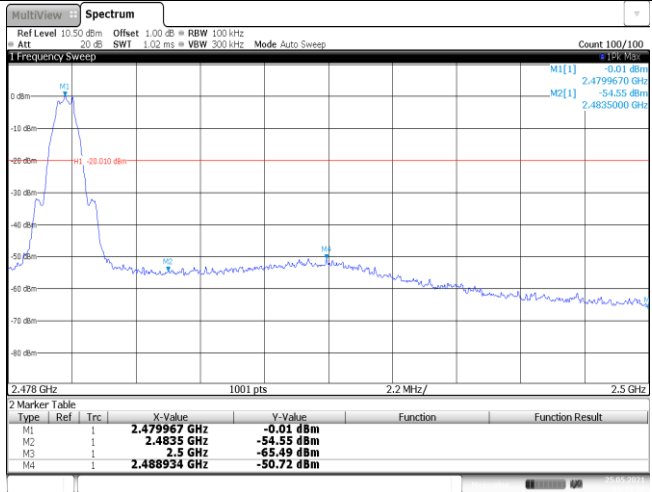
Appendix E: Duty cycle

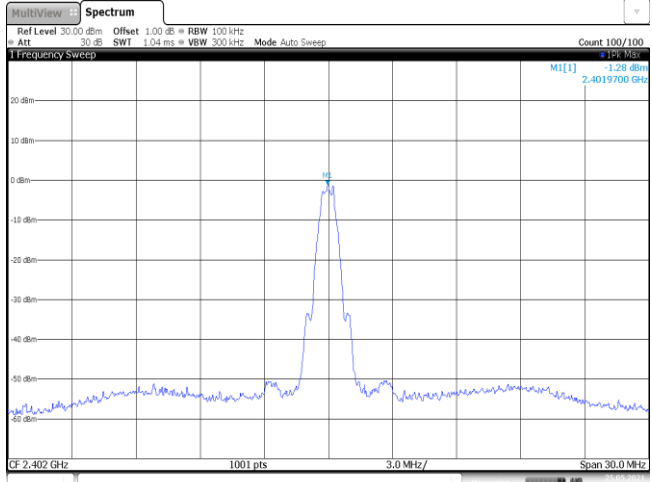
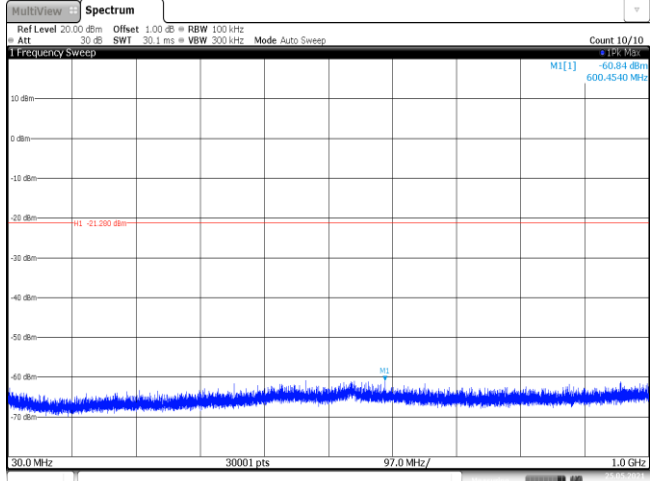
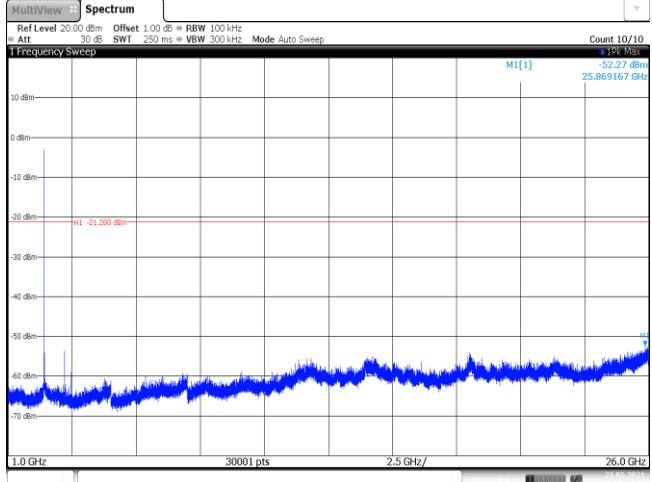
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	2.08	2.49	83.5%	0.5

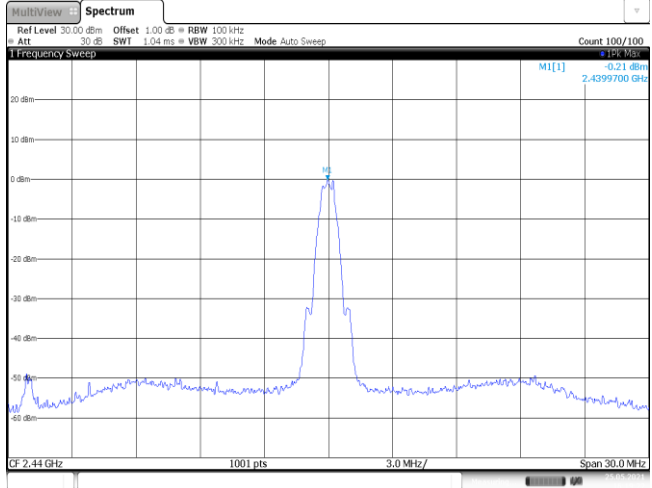
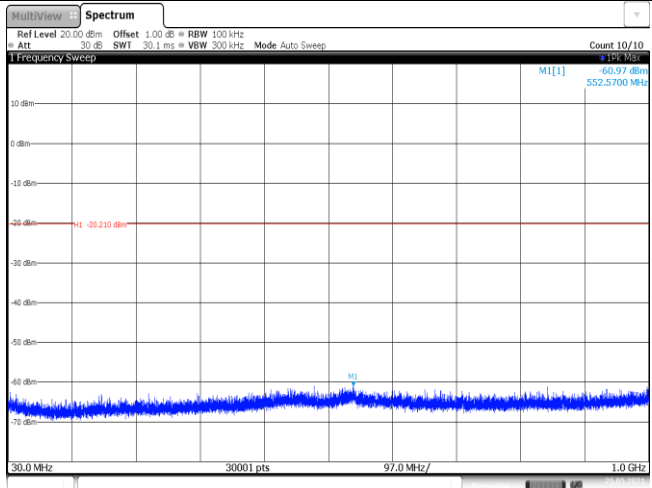
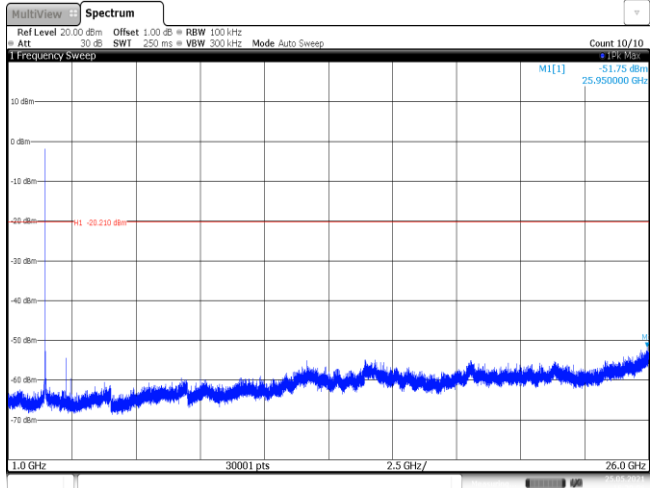


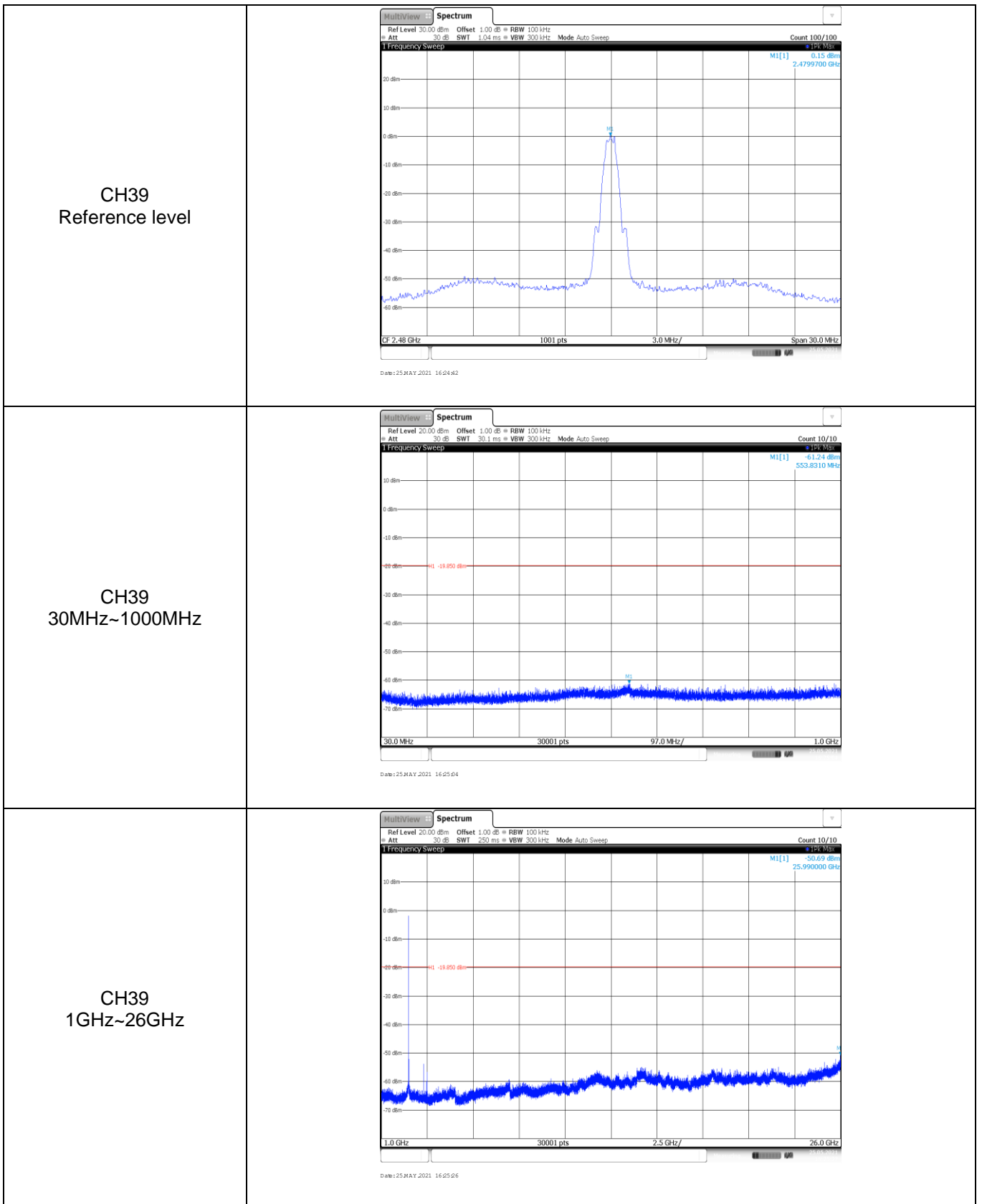
Date: 25 MAY 2021 16:21:07

Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH00</p>	 <p style="text-align: center;">Date: 25 MAY 2021 16:35:52</p>
<p style="text-align: center;">CH39</p>	 <p style="text-align: center;">Date: 25 MAY 2021 16:24:21</p>

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 MI[1] 1.28 dBm 2.4019700 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 25 MAY 2021 16:46:11</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 MI[1] -60.84 dBm 600.4540 MHz -21.200 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 25 MAY 2021 16:46:22</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 MI[1] -52.27 dBm 25.869167 GHz -21.200 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 25 MAY 2021 16:46:55</p>

<p>CH19 Reference level</p>	 <p>MultiView Spectrum Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M[1] -0.21 dBm 2.4399700 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 25 MAY 2021 16:19:22</p>
<p>CH19 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M[1] -60.97 dBm 552.5700 MHz M1 -68.210 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 25 MAY 2021 16:19:44</p>
<p>CH19 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 10/10 Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M[1] -51.75 dBm 25.950000 GHz M1 -68.210 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 25 MAY 2021 16:20:06</p>



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