

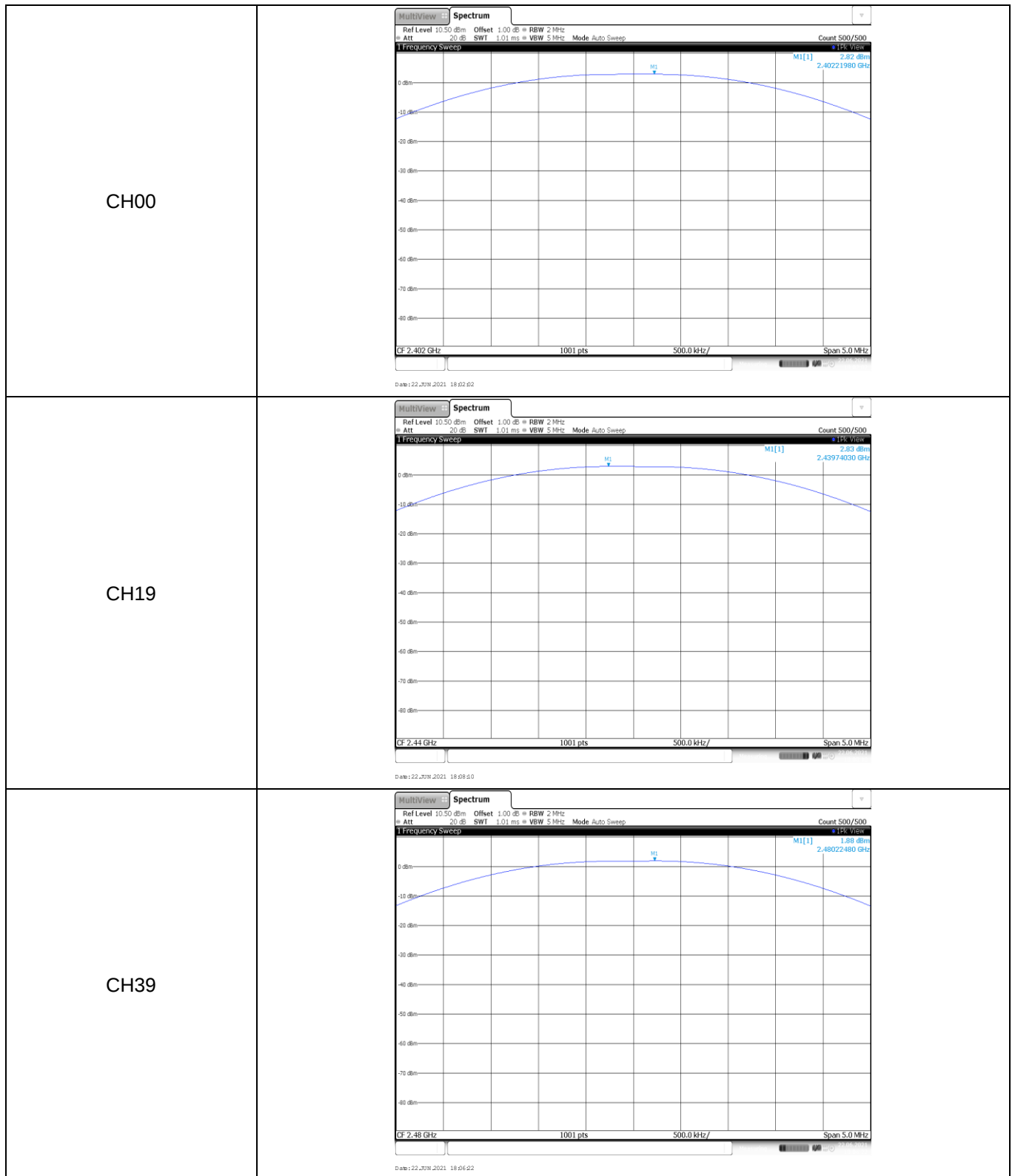
APPENDIX REPORT

Project No.	SHT2106014501EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21060145004	Model No.	T650m
Start test date	2021-06-22	Finish date	2021-06-22
Temperature	25°C	Humidity	37%
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

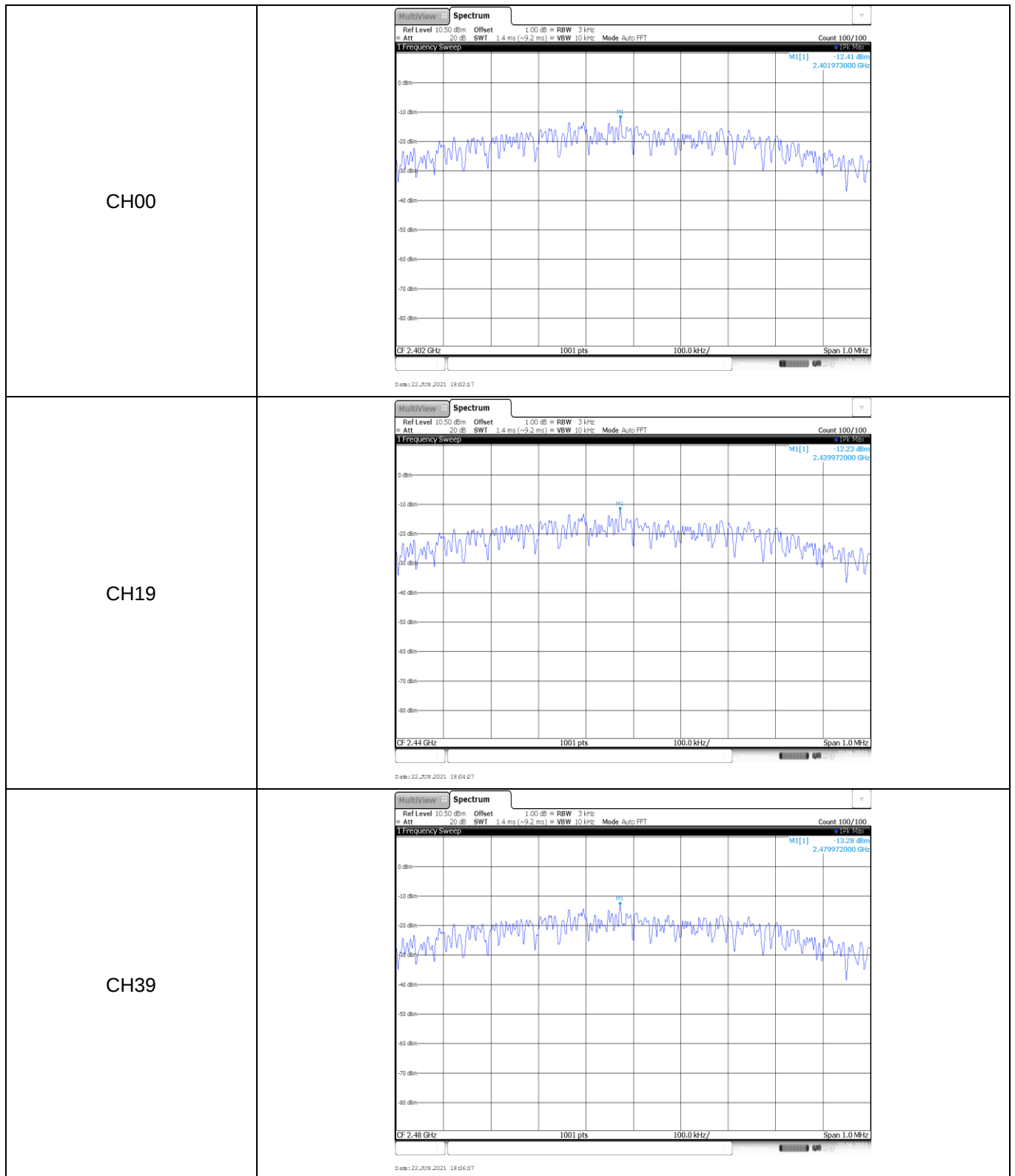
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	2.82	2.80	≤ 30.00	Pass
	19	2.83	2.82		
	39	1.88	1.86		



Appendix B: Power Spectral Density

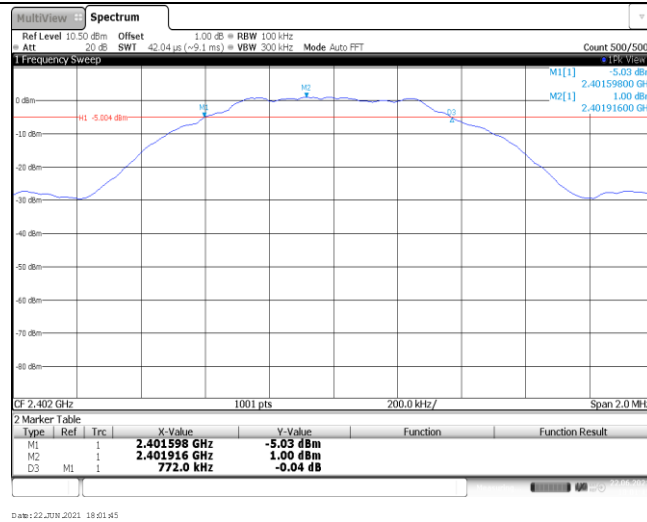
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-12.41	≤8.00	Pass
	19	-12.23		
	39	-13.28		



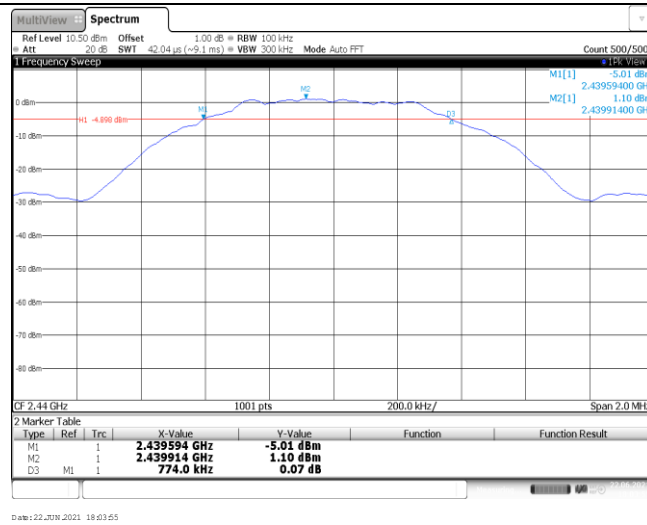
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	772.00	≥500	Pass
	19	774.00		
	39	772.00		

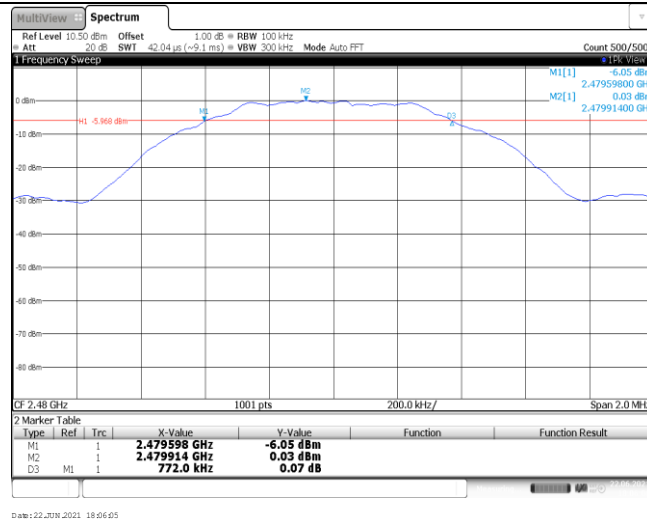
CH00



CH19

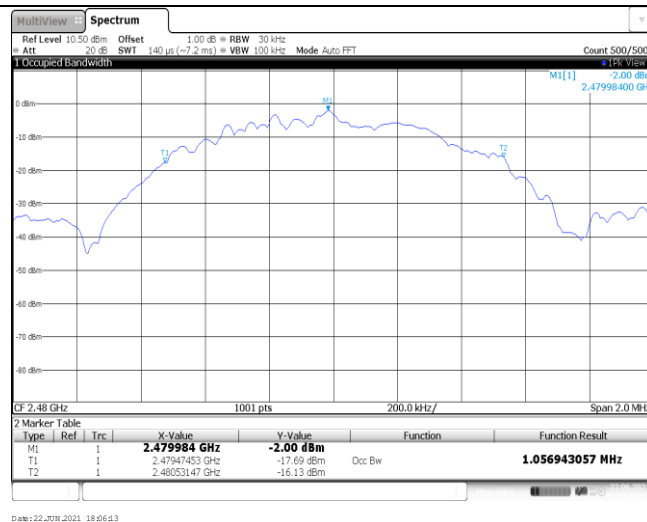
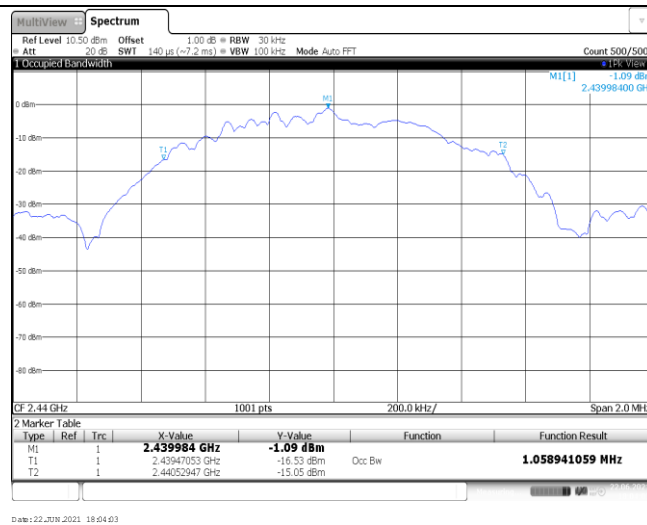
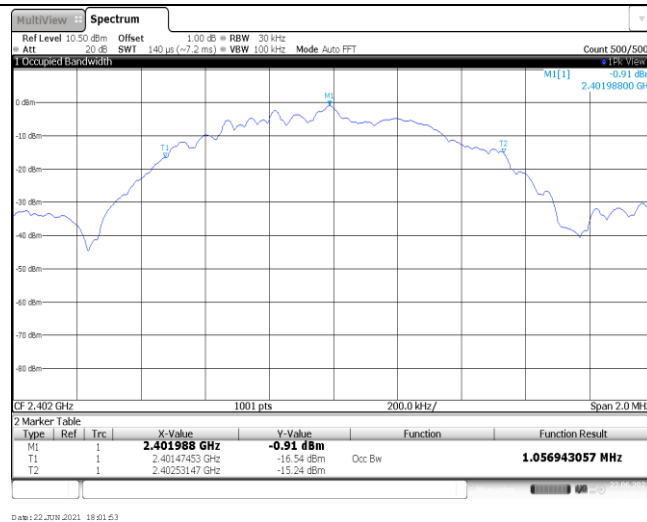


CH39



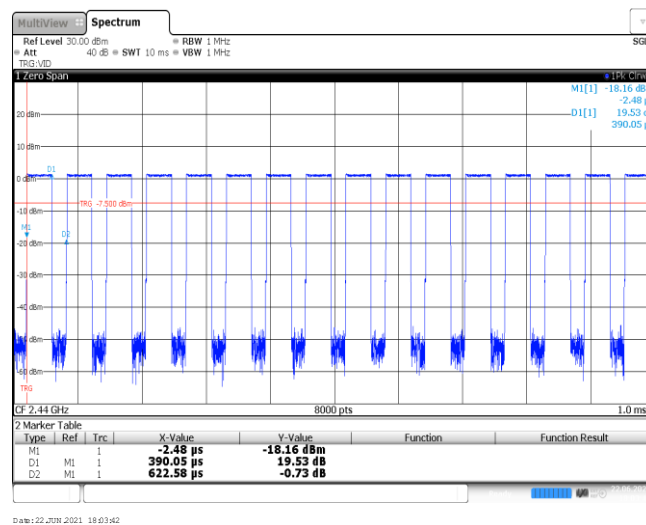
Appendix D: 99% Occupied Bandwidth

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



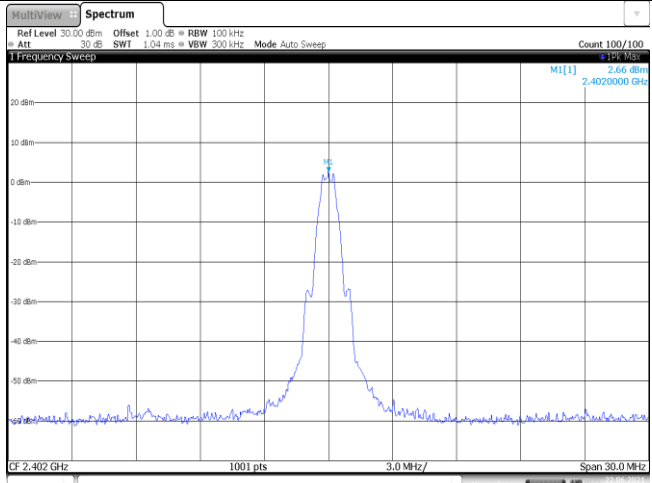
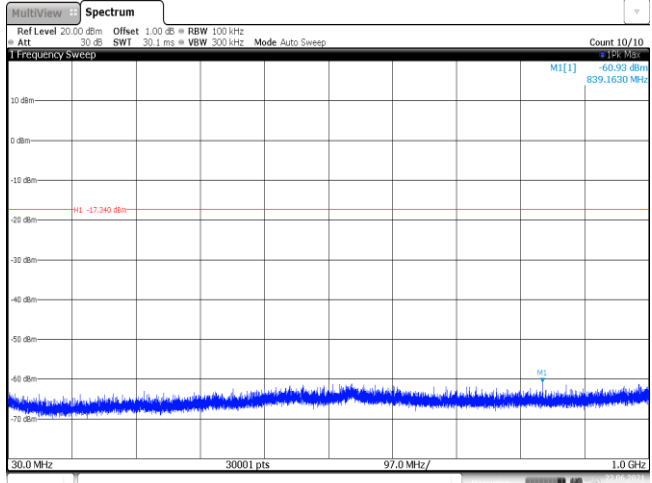
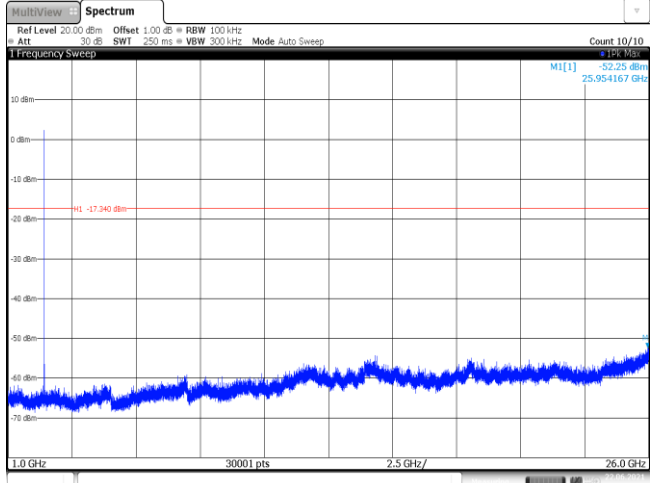
Appendix E: Duty cycle

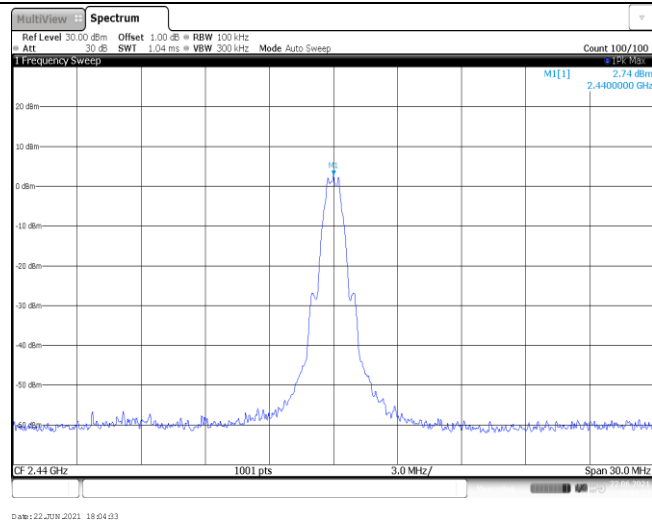
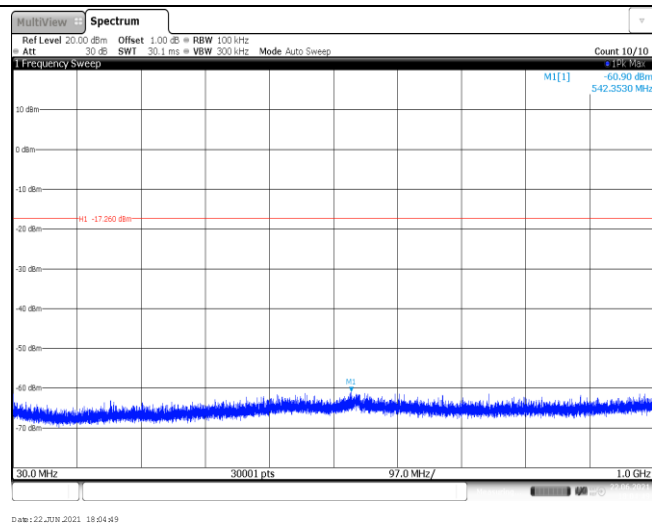
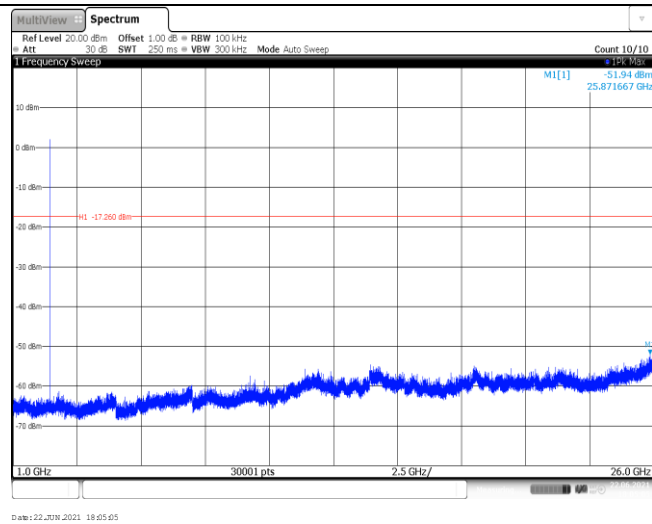
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6

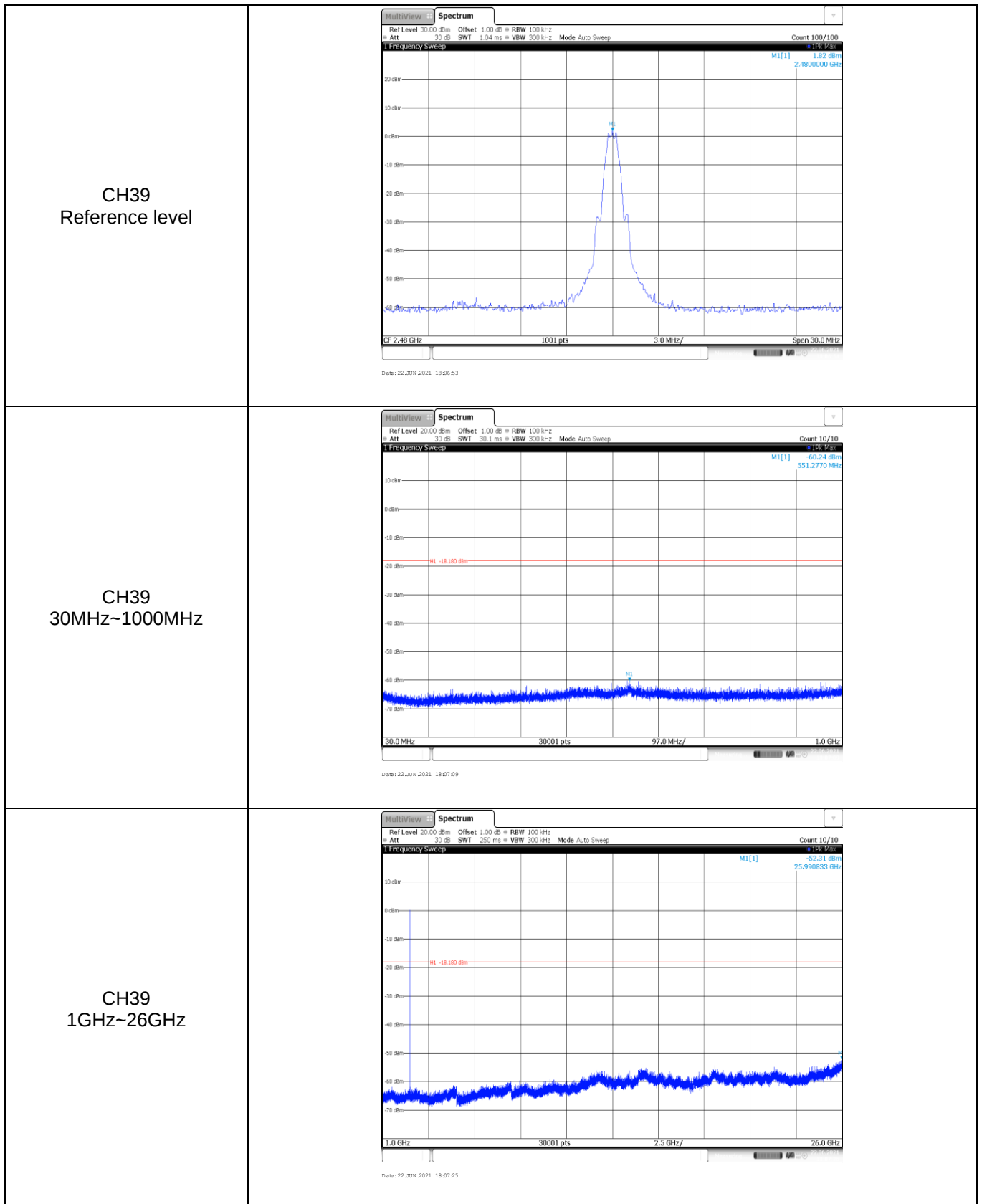


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz M1[1] 2.51 dBm 2.402010 GHz M2[1] -53.49 dBm 2.400000 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.40201 GHz</td><td>2.51 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-53.49 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-73.75 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.77 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-55.41 dBm</td><td></td><td></td></tr></table> Date: 22 JUN 2021 18:02:27	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	2.51 dBm			M2	1		2.4 GHz	-53.49 dBm			M3	1		2.39 GHz	-73.75 dBm			M4	1		2.31 GHz	-73.77 dBm			M5	1		2.399965 GHz	-55.41 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.40201 GHz	2.51 dBm																																							
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M5	1		2.399965 GHz	-55.41 dBm																																							
CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz M1[1] 1.57 dBm 2.479989 GHz M2[1] -66.04 dBm 2.483500 GHz <table><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><tr><td>M1</td><td>1</td><td></td><td>2.479989 GHz</td><td>1.57 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-66.04 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-73.52 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483742 GHz</td><td>-64.97 dBm</td><td></td><td></td></tr></table> Date: 22 JUN 2021 18:06:47	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	1.57 dBm			M2	1		2.4835 GHz	-66.04 dBm			M3	1		2.5 GHz	-73.52 dBm			M4	1		2.483742 GHz	-64.97 dBm									
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M3	1		2.5 GHz	-73.52 dBm																																							
M4	1		2.483742 GHz	-64.97 dBm																																							

Test Item:	SE
CH00 Reference level	 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 M1[1] 2.66 dBm 2.402000 GHz 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 22_JUN 2021 18:02:04
CH00 30MHz~1000MHz	 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 M1[1] -60.93 dBm 839.1630 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 22_JUN 2021 18:02:50
CH00 1GHz~26GHz	 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 M1[1] -52.25 dBm 25.954167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 22_JUN 2021 18:03:06

CH19
Reference levelCH19
30MHz~1000MHzCH19
1GHz~26GHz



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