

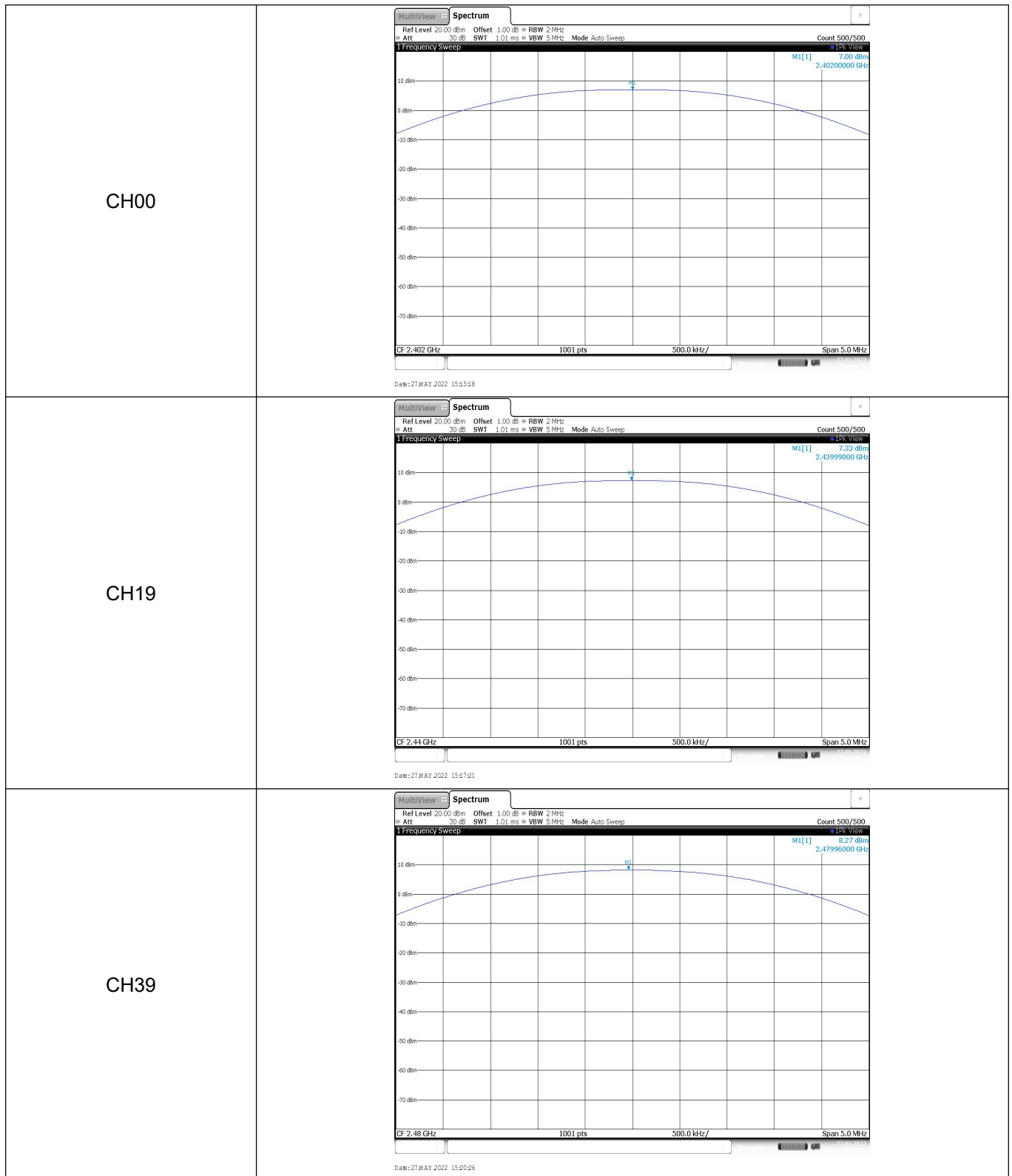
APPENDIX REPORT

Project No.	SHT2109010007EW	Radio Specification	Bluetooth BLE
Model No.	RXiBreeze 20A		
Start test date	2022-05-27	Finish date	2022-05-27
Temperature	25.0℃	Humidity	44%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

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

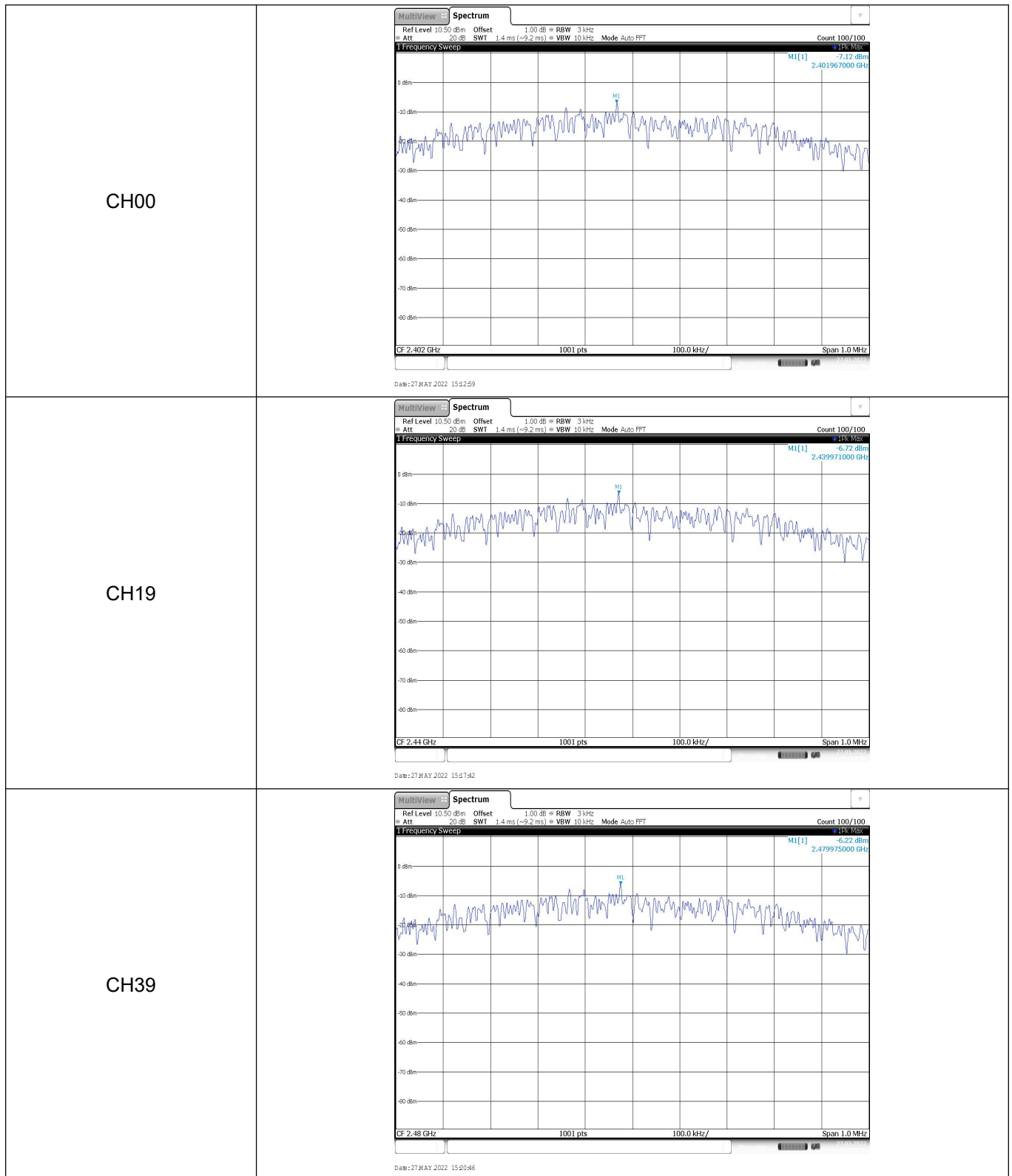
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	7.00	6.97	≤ 30.00	Pass
	19	7.33	7.31		
	39	8.27	8.26		



Appendix B: Power Spectral Density

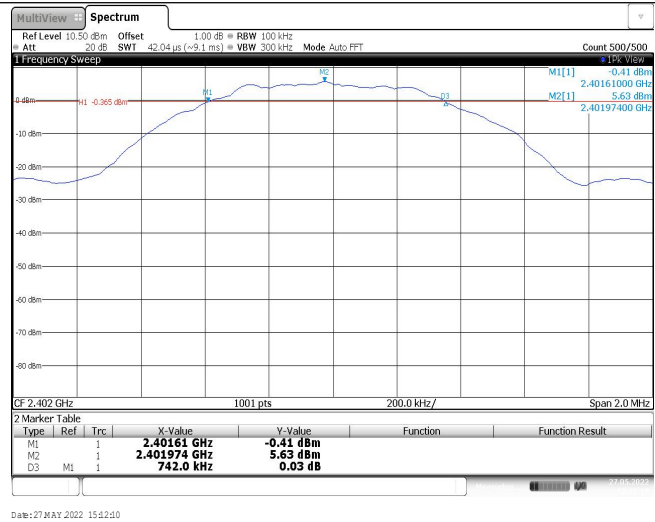
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-7.12	≤8.00	Pass
	19	-6.72		
	39	-6.22		



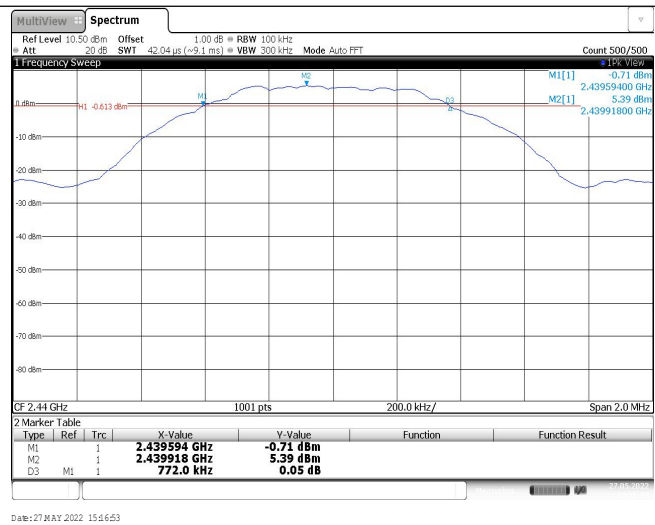
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	742.00	≥500	Pass
	19	772.00		
	39	774.00		

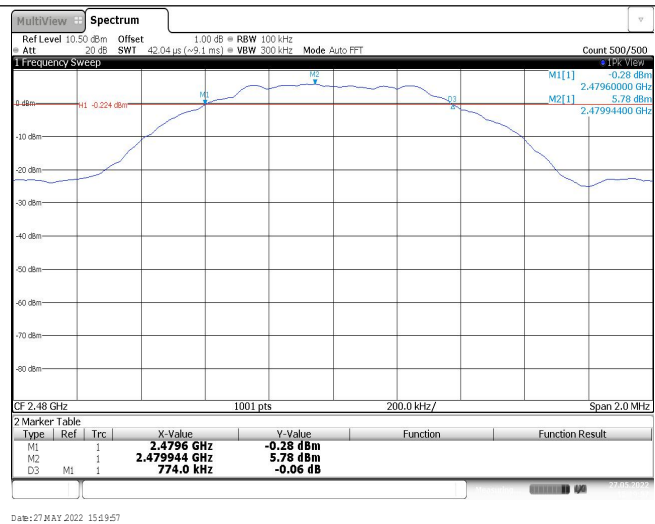
CH00



CH19



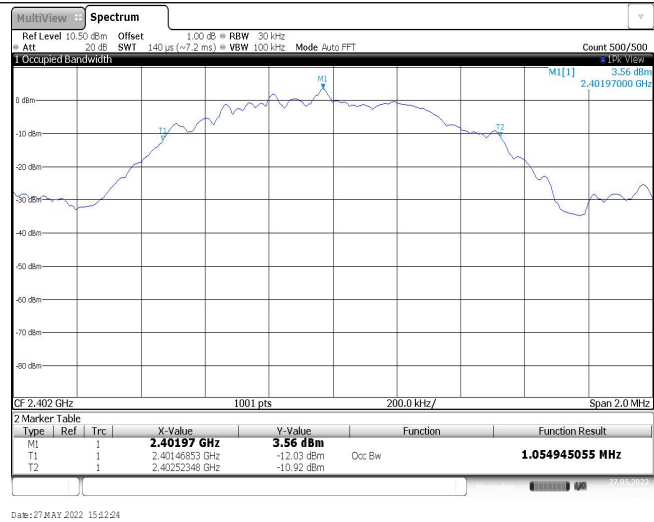
CH39



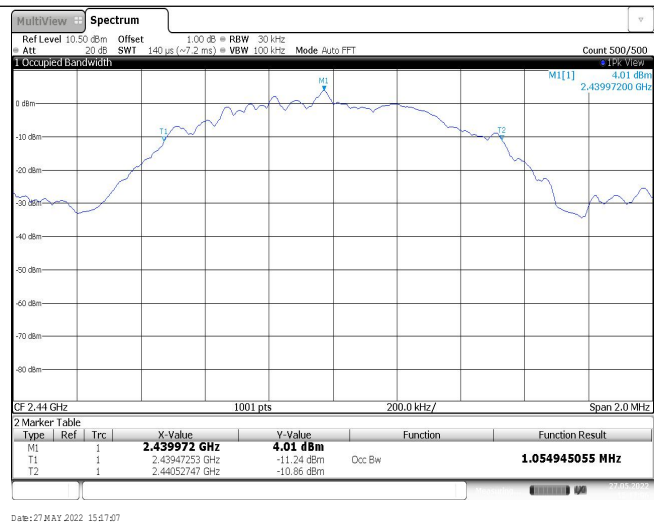
Appendix D: 99% Occupied Bandwidth

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

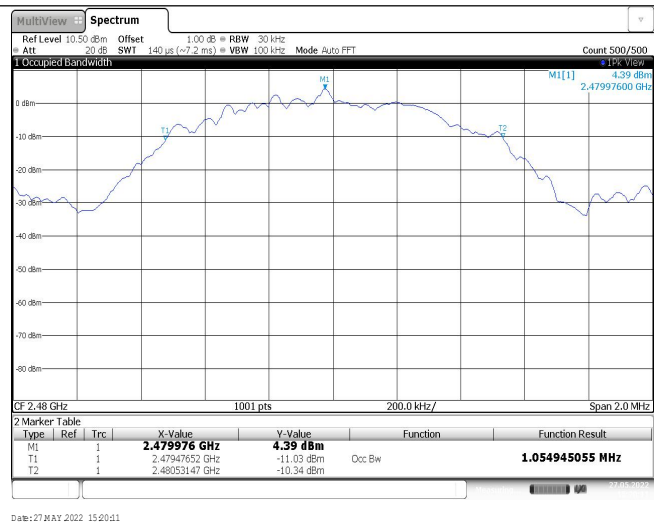
CH00



CH19

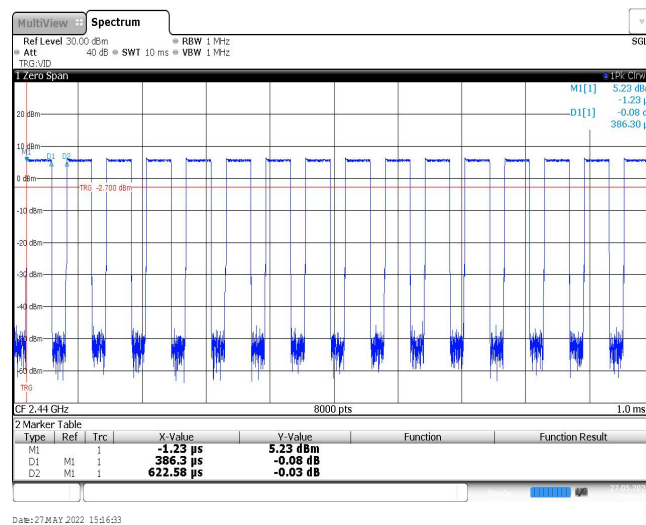


CH39



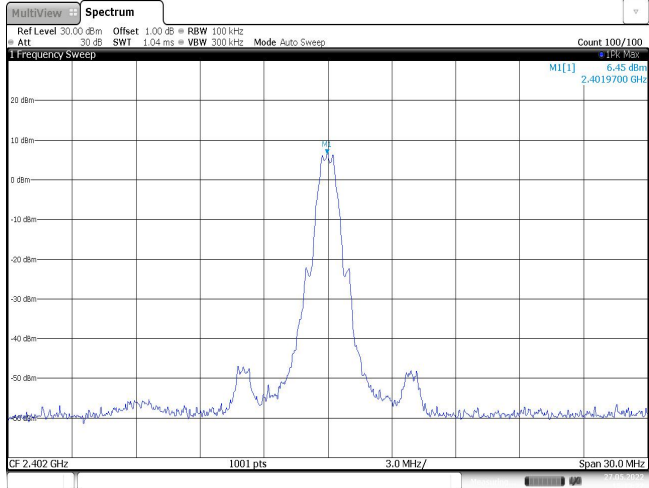
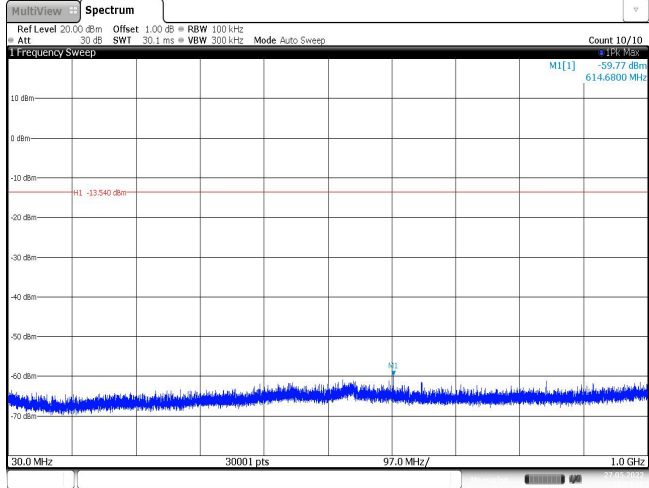
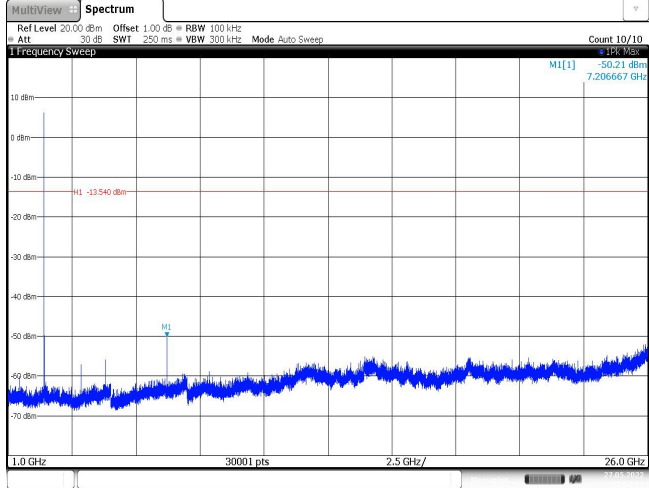
Appendix E: Duty cycle

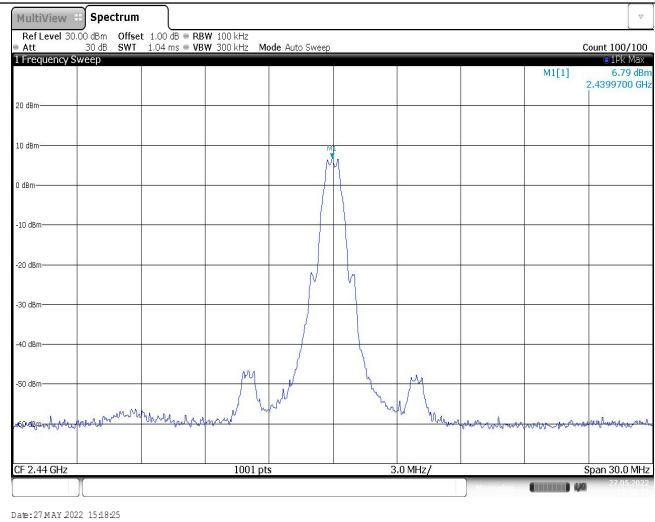
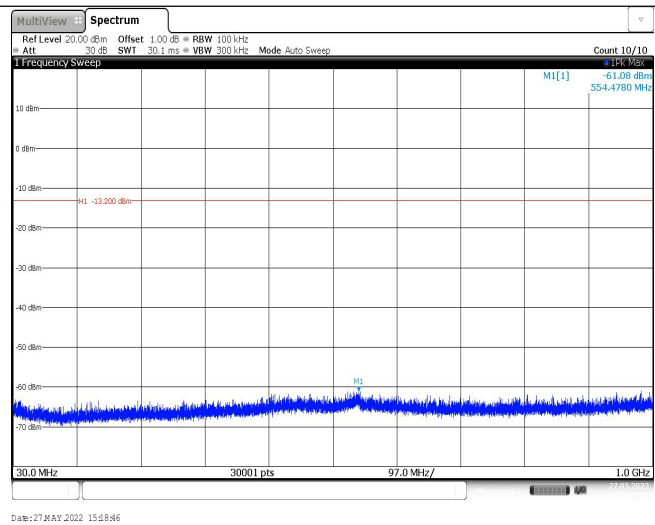
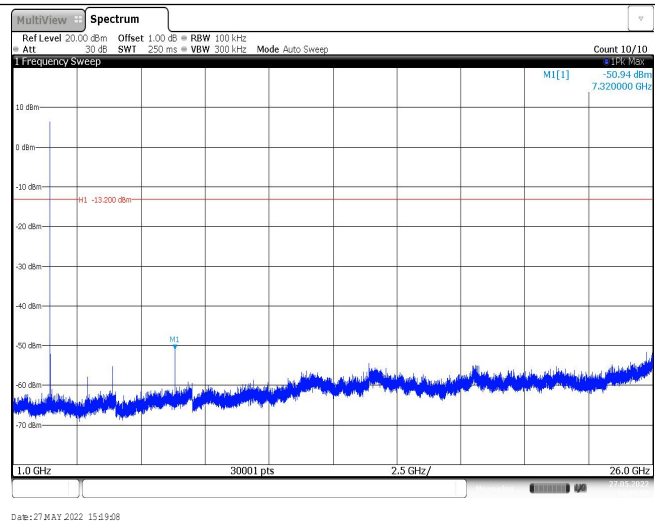
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.56

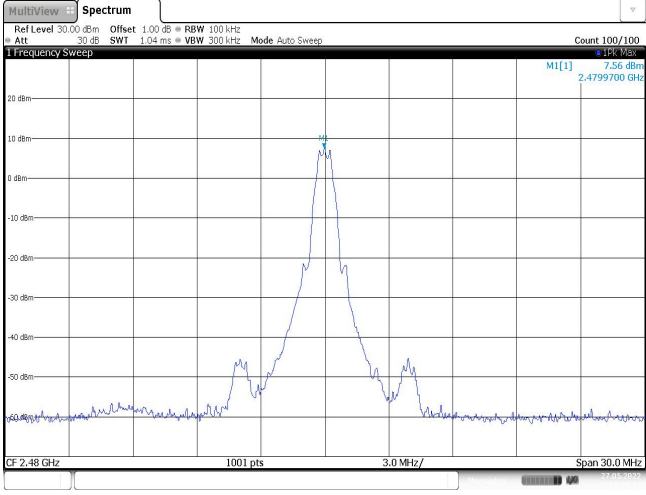
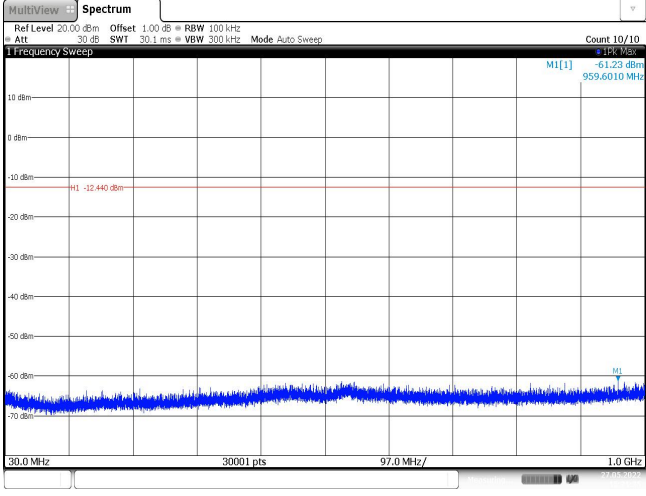
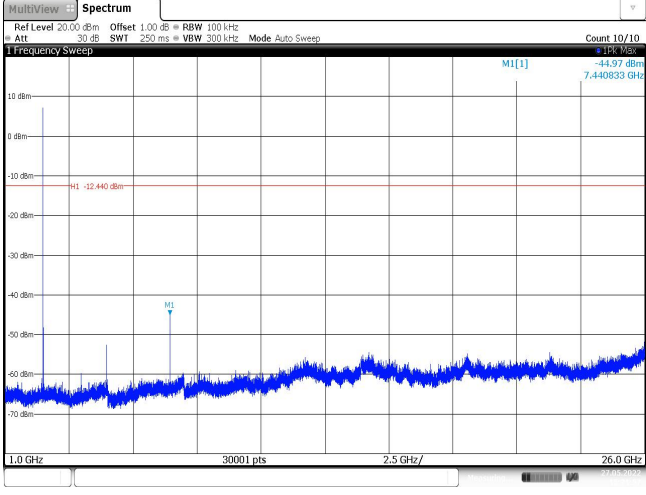


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.05 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1 Frequency Sweep 8 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -13.840 dBm M2 6.16 dBm M3 -51.56 dBm M4 -70.14 dBm M5 -47.61 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <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>2.401916 GHz</td><td>6.16 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-51.56 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-70.14 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-73.48 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.398065 GHz</td><td>-47.61 dBm</td><td></td><td></td></tr></table> Date: 27 MAY 2022 15:33:55	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401916 GHz	6.16 dBm			M2	1		2.4 GHz	-51.56 dBm			M3	1		2.39 GHz	-70.14 dBm			M4	1		2.31 GHz	-73.48 dBm			M5	1		2.398065 GHz	-47.61 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.401916 GHz	6.16 dBm																																							
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M4	1		2.31 GHz	-73.48 dBm																																							
M5	1		2.398065 GHz	-47.61 dBm																																							
CH39	MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100 1 Frequency Sweep 8 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm M1 -12.700 dBm M2 7.22 dBm M3 -52.12 dBm M4 -47.10 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <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>2.479967 GHz</td><td>7.22 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-52.12 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-71.50 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483896 GHz</td><td>-47.10 dBm</td><td></td><td></td></tr></table> Date: 27 MAY 2022 15:21:02	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479967 GHz	7.22 dBm			M2	1		2.4835 GHz	-52.12 dBm			M3	1		2.5 GHz	-71.50 dBm			M4	1		2.483896 GHz	-47.10 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																					
M1	1		2.479967 GHz	7.22 dBm																																							
M2	1		2.4835 GHz	-52.12 dBm																																							
M3	1		2.5 GHz	-71.50 dBm																																							
M4	1		2.483896 GHz	-47.10 dBm																																							

Test Item:	SE
CH00 Reference level	 Date: 27 MAY 2022 15:327
CH00 30MHz~1000MHz	 Date: 27 MAY 2022 15:348
CH00 1GHz~26GHz	 Date: 27 MAY 2022 15:441

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

CH39 Reference level	 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] 7.56 dBm 2.4799700 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 27 MAY 2022 15:21:14
CH39 30MHz~1000MHz	 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] -61.23 dBm 959.6010 MHz MI -12.440 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 27 MAY 2022 15:21:35
CH39 1GHz~26GHz	 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] -44.97 dBm 7.440833 GHz MI -12.440 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 27 MAY 2022 15:21:58

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