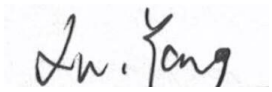
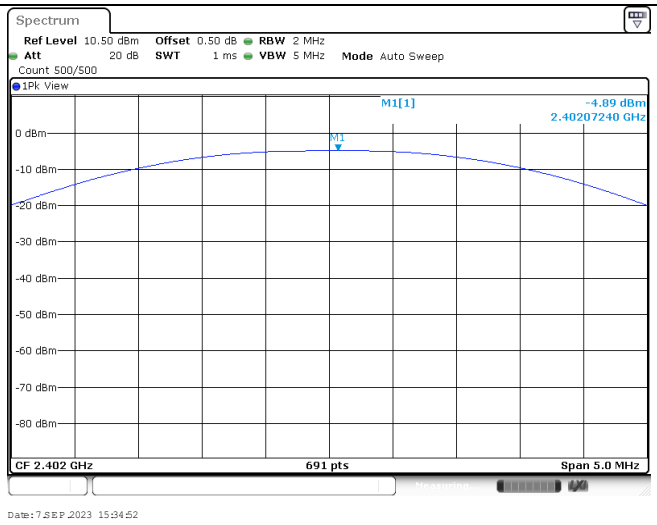
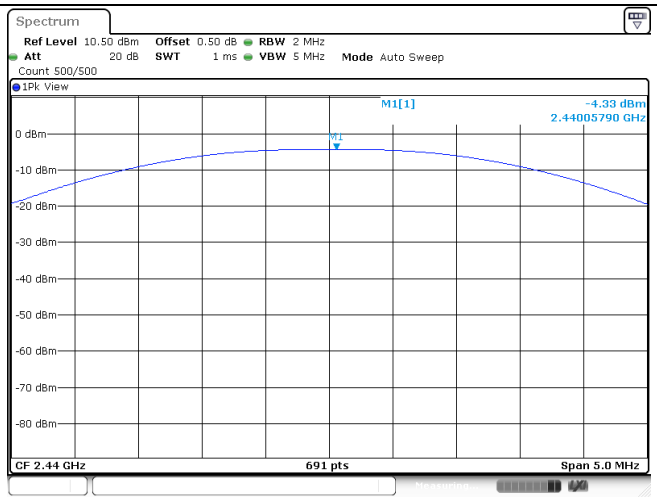
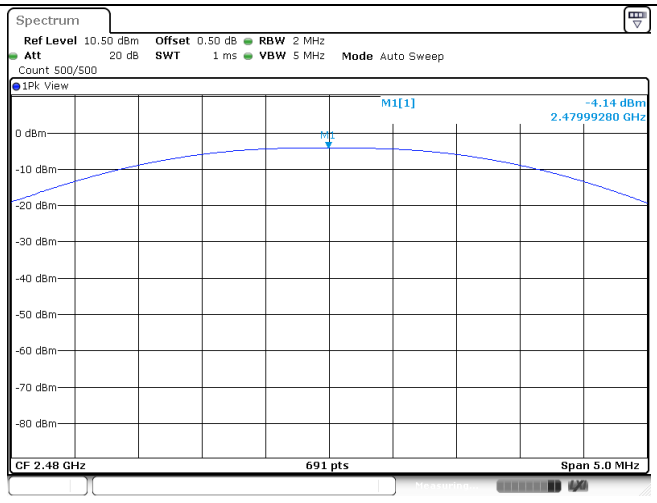
APPENDIX REPORT

Project No.	SHT2308070101EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT23080701001_01	Model No.	ENGY Pro 24
Start test date	2023-09-01	Finish date	2023-09-13
Temperature	23.5℃	Humidity	49%
Test Engineer	Xiaodong Zhao	Auditor	

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

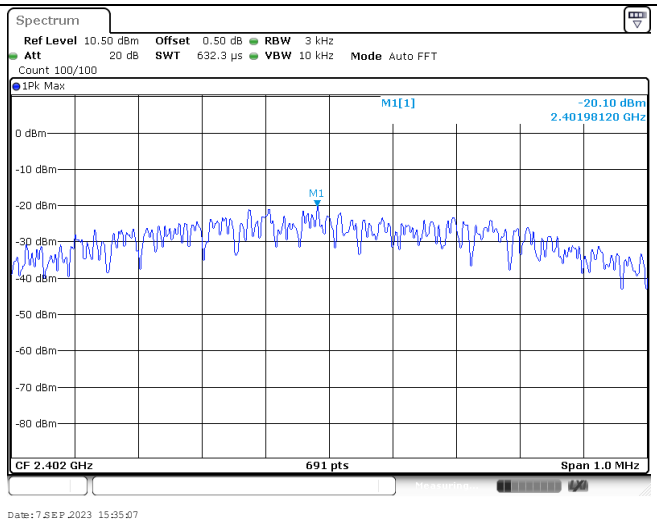
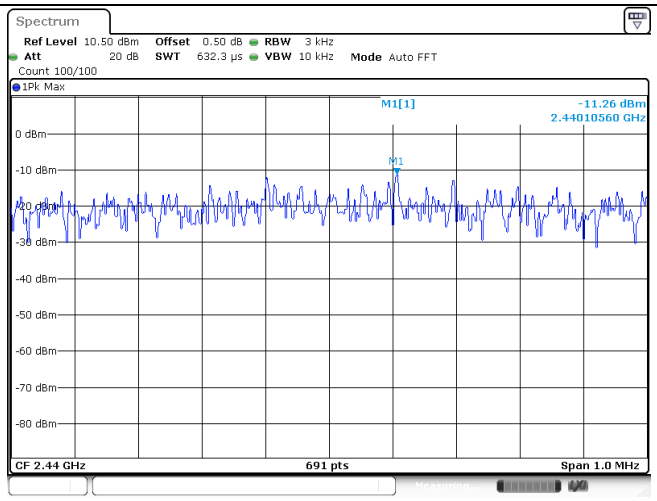
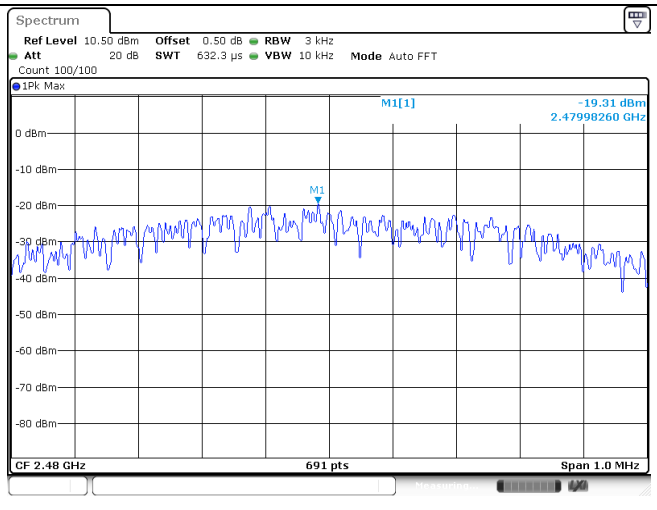
Appendix A：Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-4.89	-5.11	≤ 30.00	Pass
	19	-4.33	-5.03		
	39	-4.14	-5.01		

CH00	
CH19	
CH39	

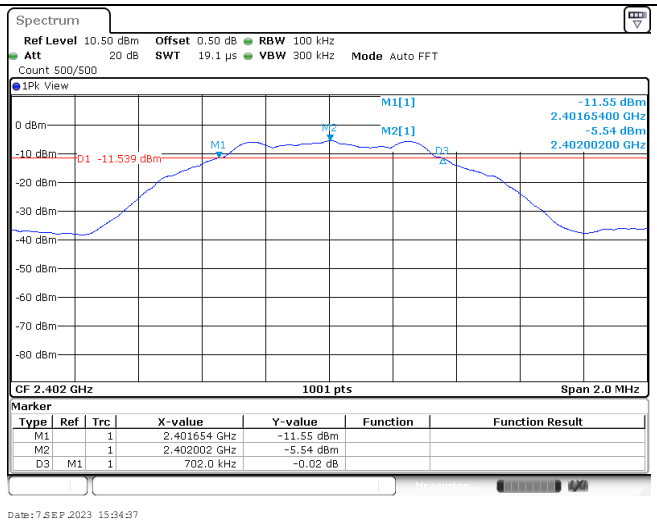
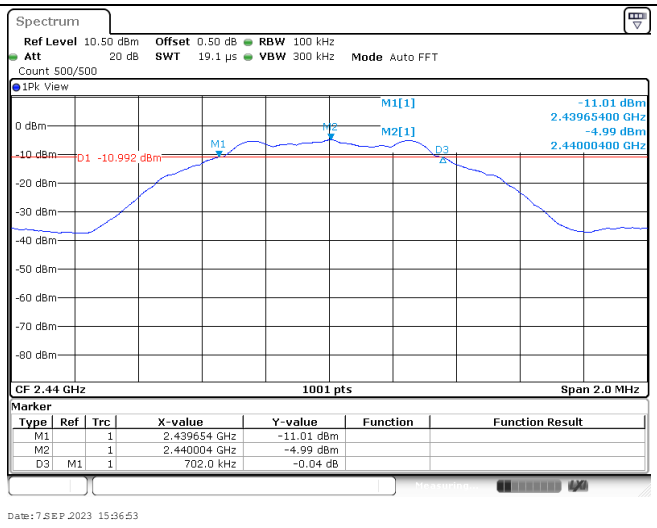
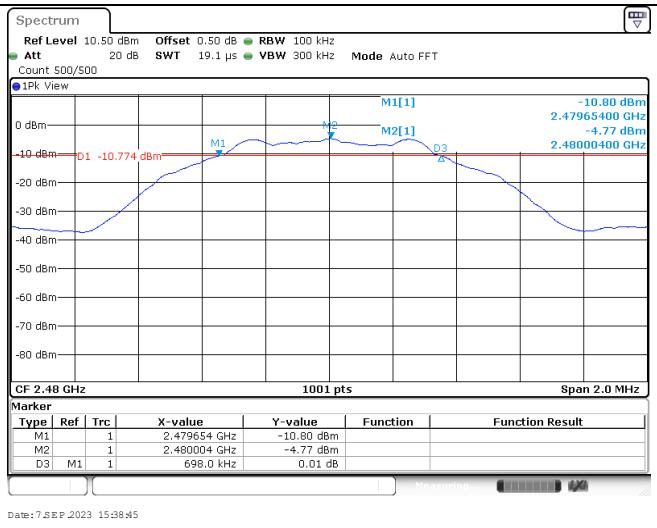
Appendix B：Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-20.10	≤8.00	Pass
	19	-11.26		
	39	-19.31		

CH00	
CH19	
CH39	

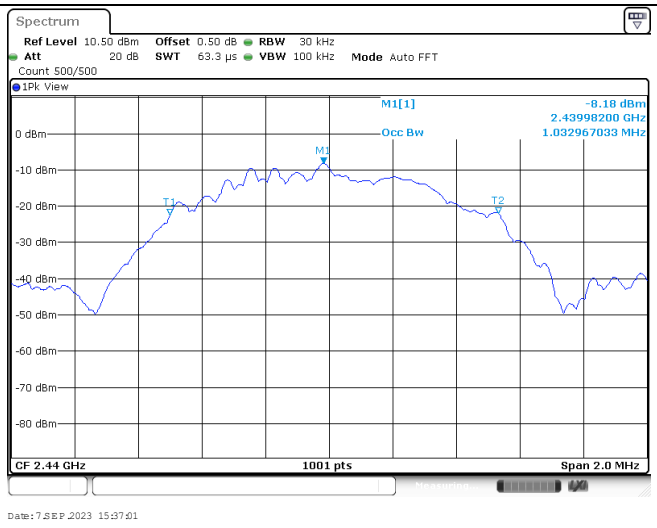
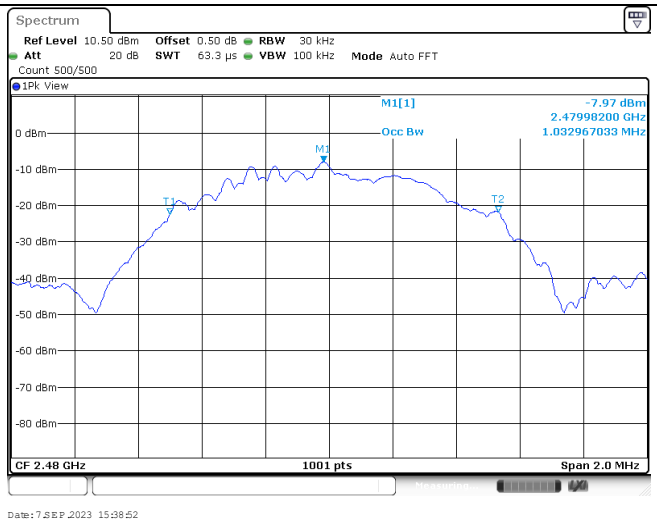
Appendix C：6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	702.00	≥500	Pass
	19	702.00		
	39	698.00		

CH00	
CH19	
CH39	

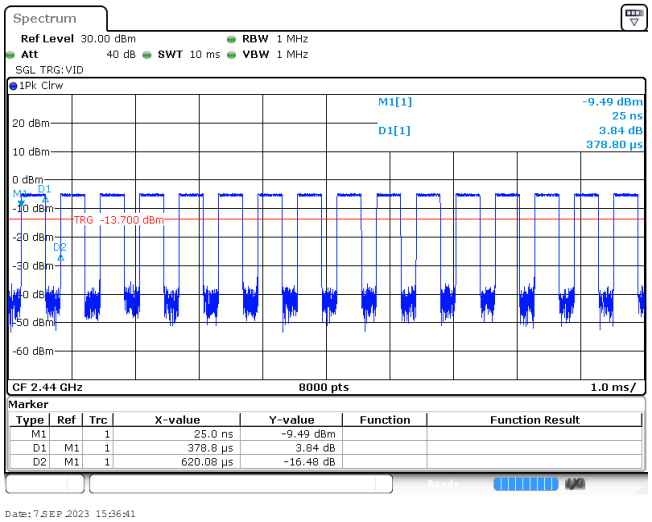
Appendix D：99% Occupied Bandwidth

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

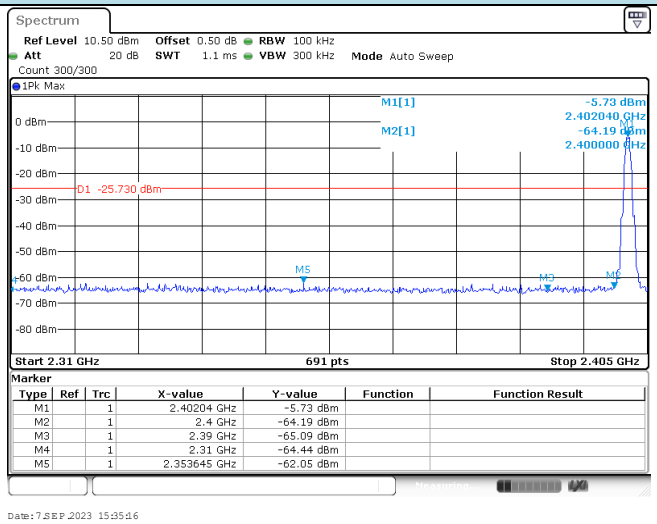
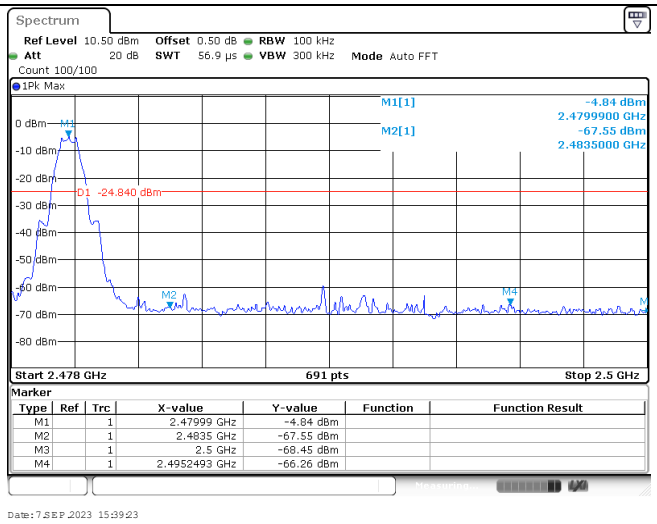
CH00	
CH19	
CH39	

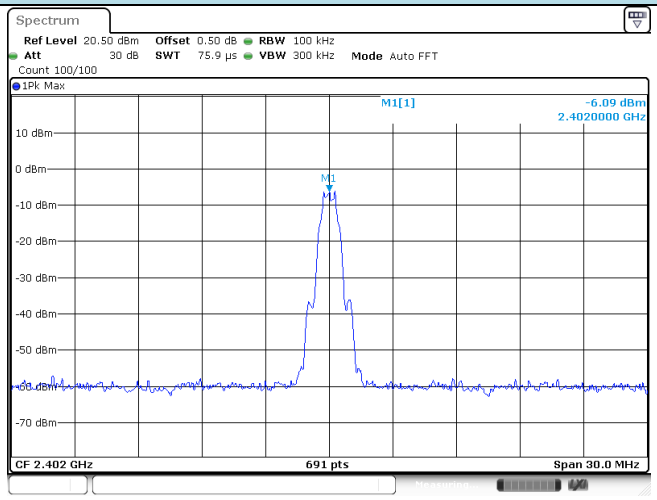
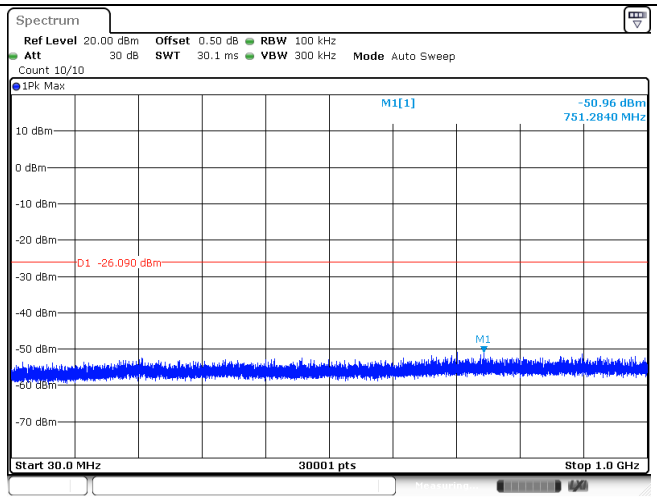
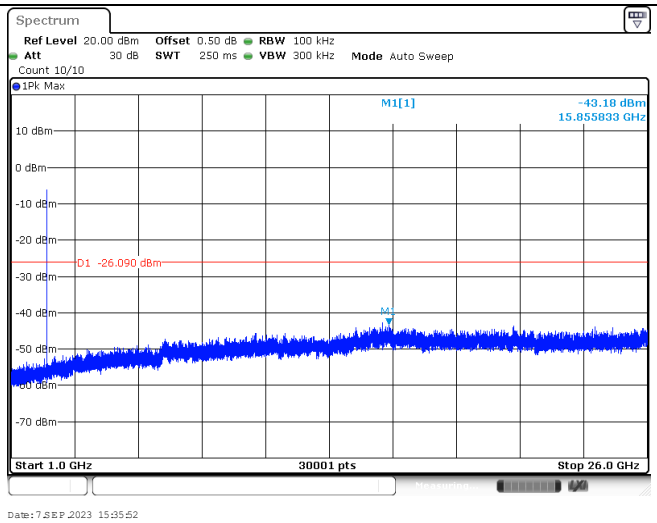
Appendix E：Duty cycle

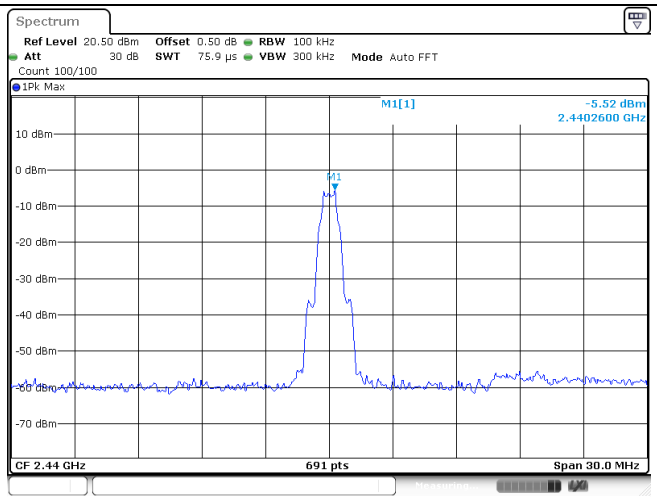
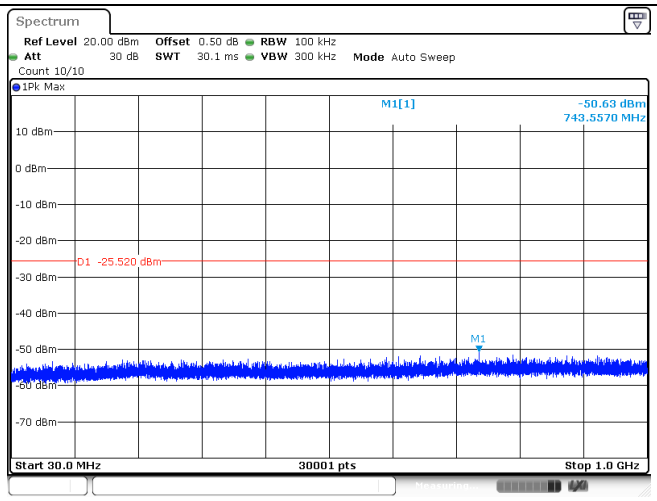
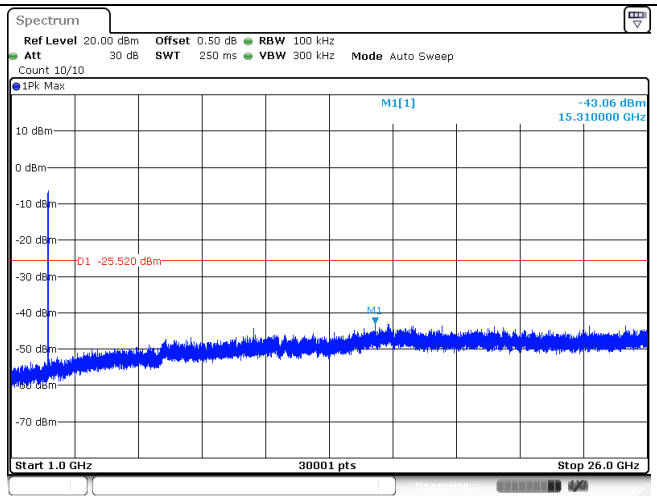
Test Frequency （MHz）	$T_{on\ time}$ for single burst (ms)	T_{period} (ms)	Duty cycle	$1/T_{on\ time}$ (kHz)
2440	0.38	0.62	61.09%	2.64

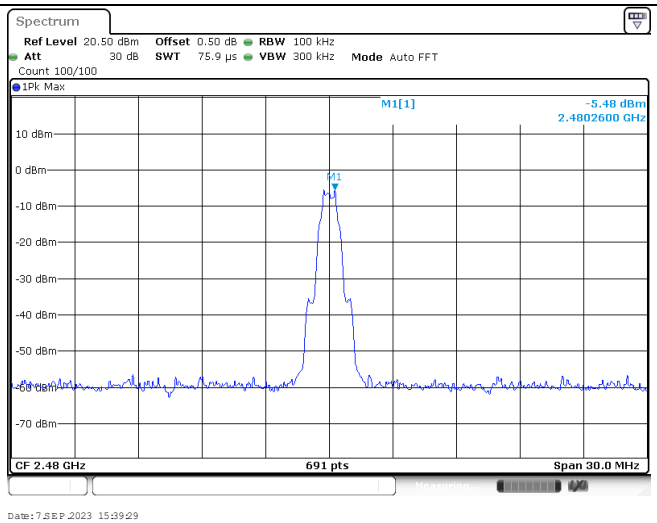
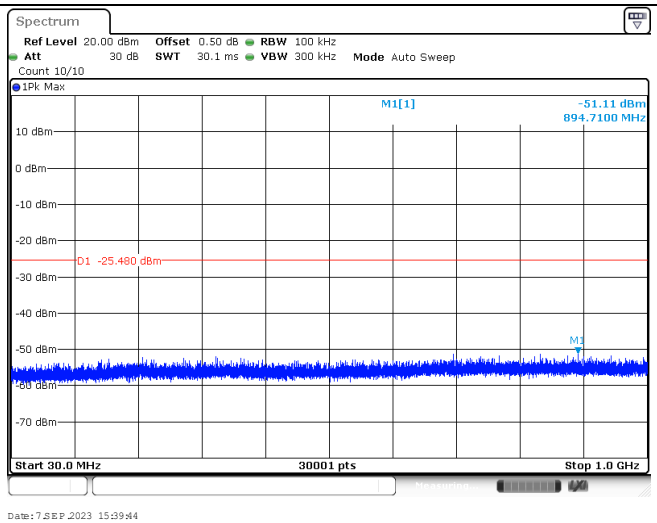
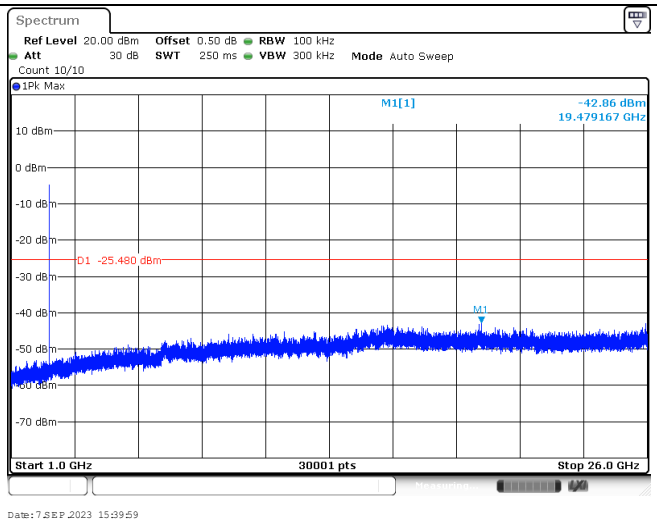


Appendix F：Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH00	
CH39	

Test Item:	SE
CH00 Reference level	
CH00 30MHz~1000MHz	
CH00 1GHz~26GHz	

CH19 Reference level	
CH19 30MHz~1000MHz	
CH19 1GHz~26GHz	

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	

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