

APPENDIX REPORT

Project No.	SHT2204077918EW		
Test sample No.	YPHT22040779020	Model No.	SM9116 remote control
Start test date	2023-05-12	Finish date	2023-05-12
Temperature	24.4℃	Humidity	66%
Test Engineer	Xiaoqin Li	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	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
FSK	00	-5.15	-5.20	≤ 30.00	Pass
	38	-5.22	-5.26		
	79	-5.23	-5.26		

CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.402 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 14:01:08
CH38	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.44 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 14:15:46
CH79	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Att 20 dB SWT 1 ms VBW 10 MHz Mode Auto Sweep Count 500/500 IPk View CF 2.401 GHz 691 pts Span 10.0 MHz Date:12 MAY 2023 14:31:56

Appendix B: Power Spectral Density

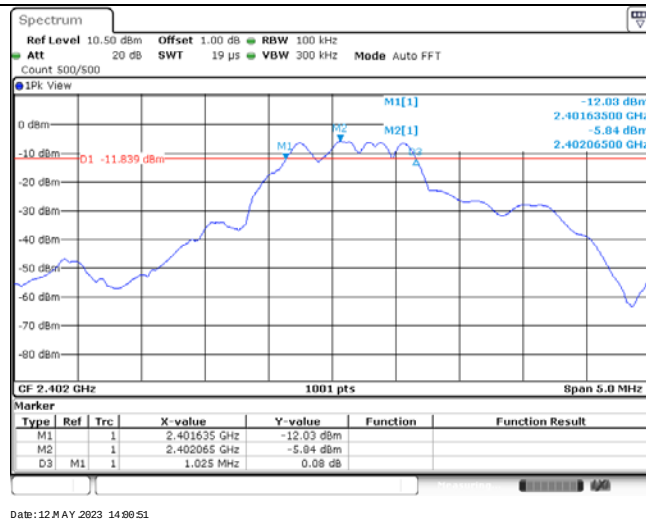
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
FSK	00	-22.13	≤8.00	Pass
	38	-22.80		
	79	-22.39		



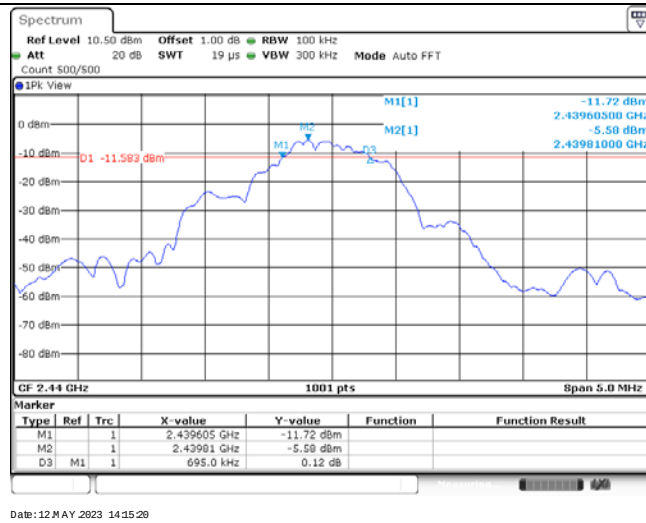
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
FSK	00	1025.00	≥500	Pass
	38	695.00		
	79	785.00		

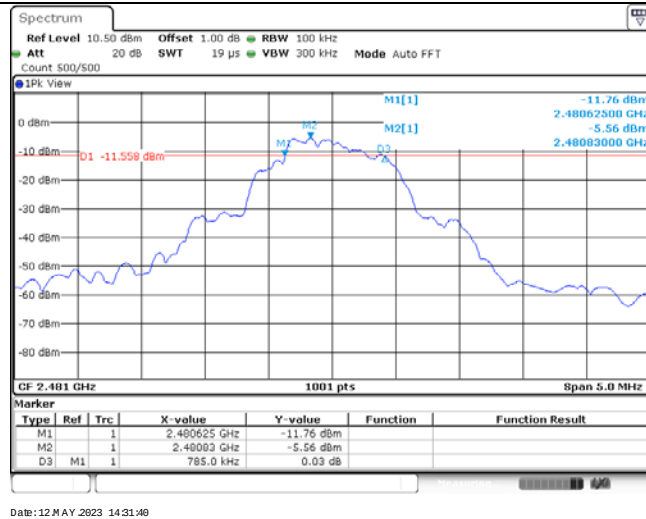
CH00



CH38



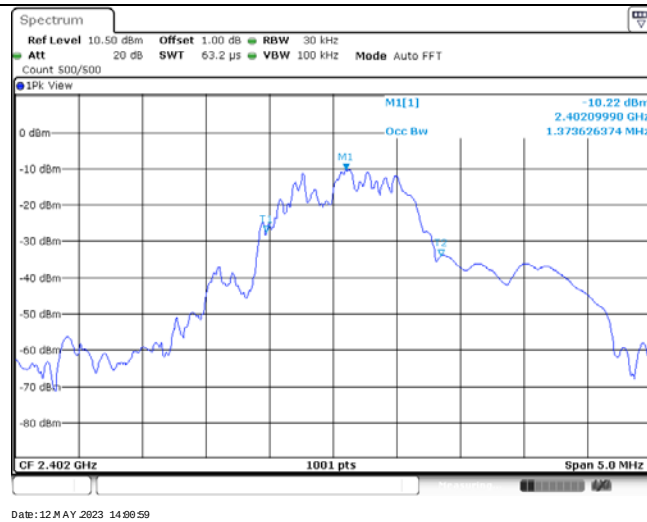
CH79



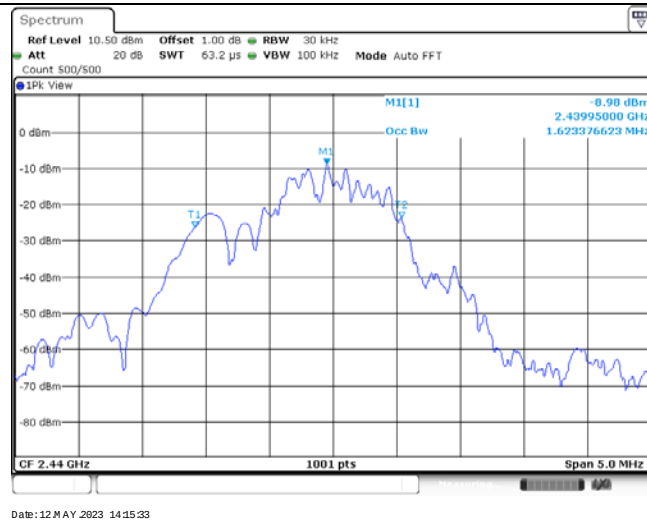
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
FSK	00	1.37	-	Pass
	38	1.62		
	79	1.64		

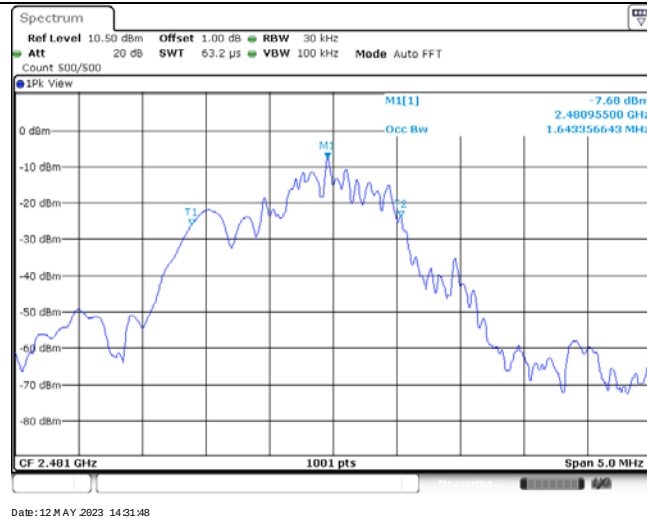
CH00



CH38

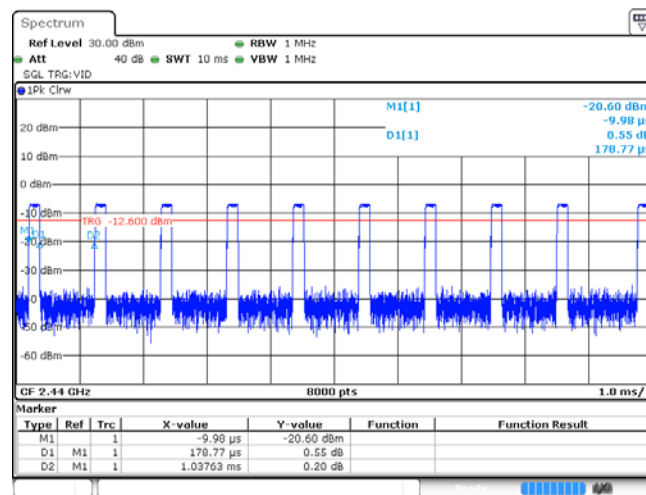


CH79



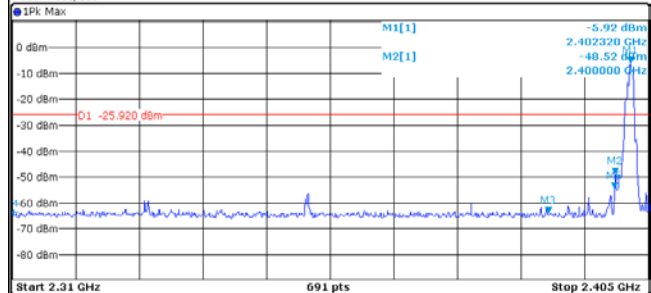
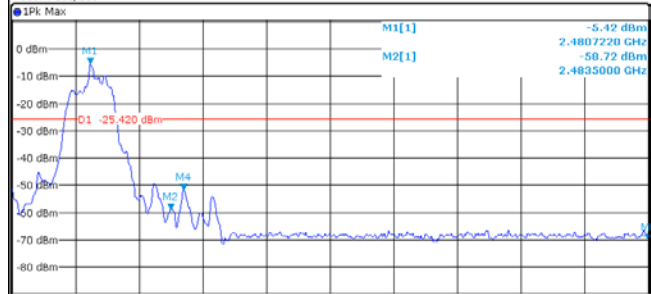
Appendix E: Duty cycle

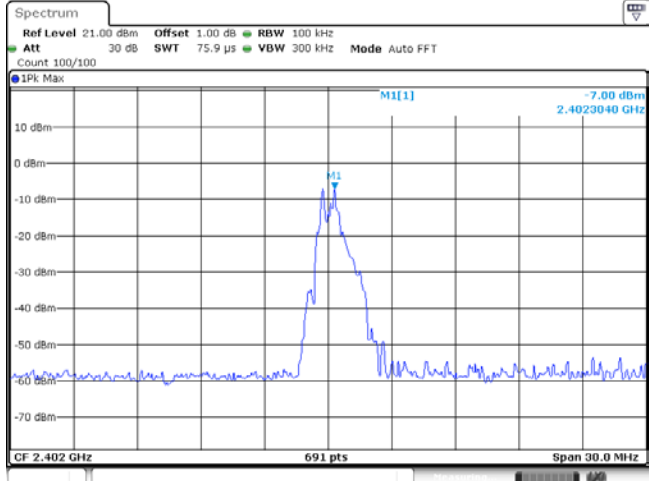
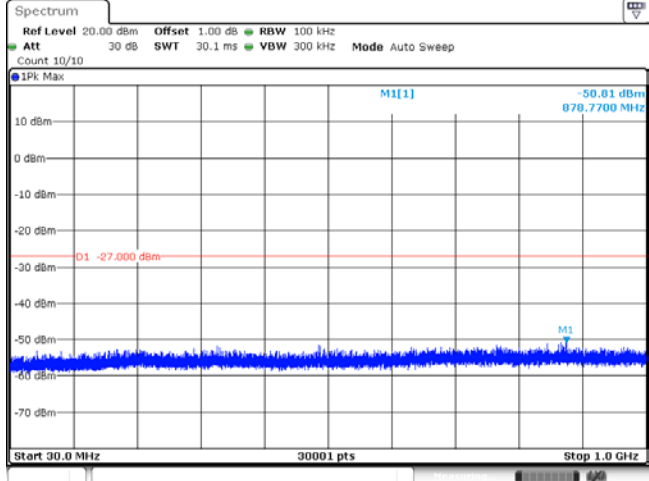
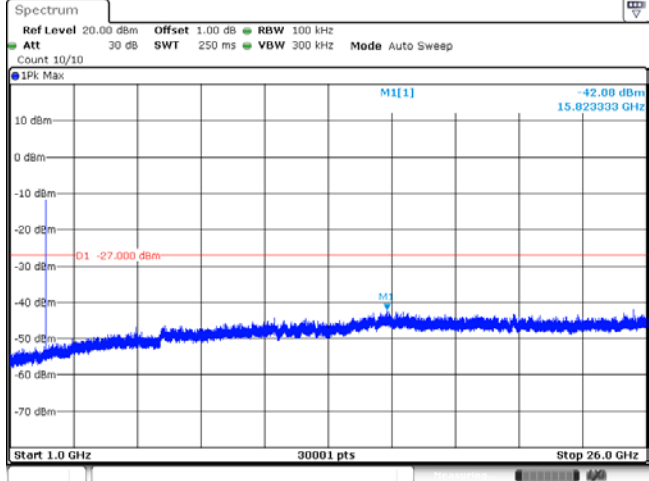
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.18	1.04	17.3%	5.56



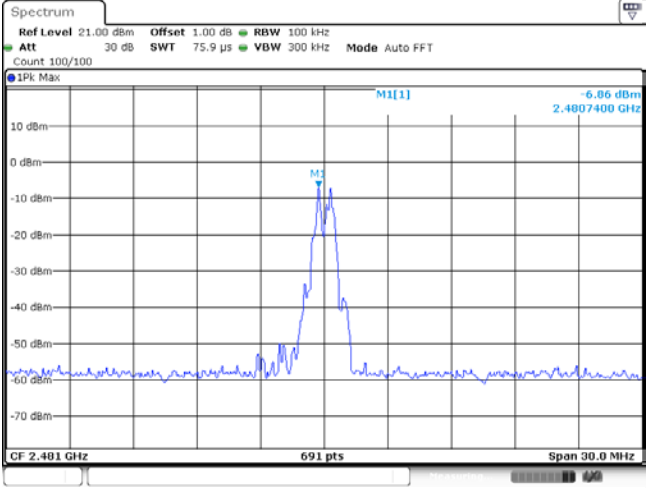
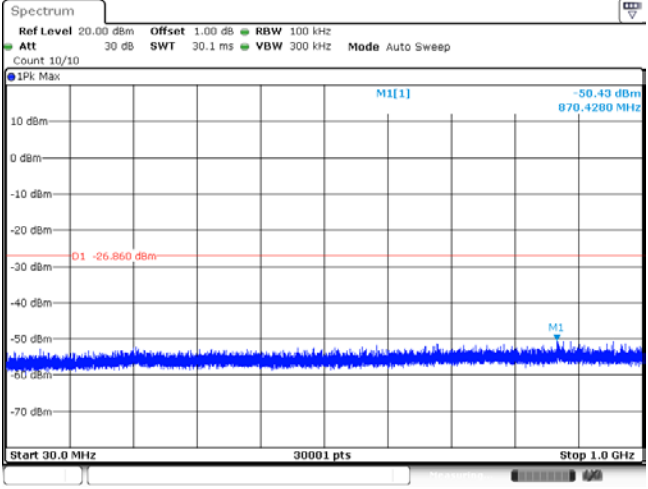
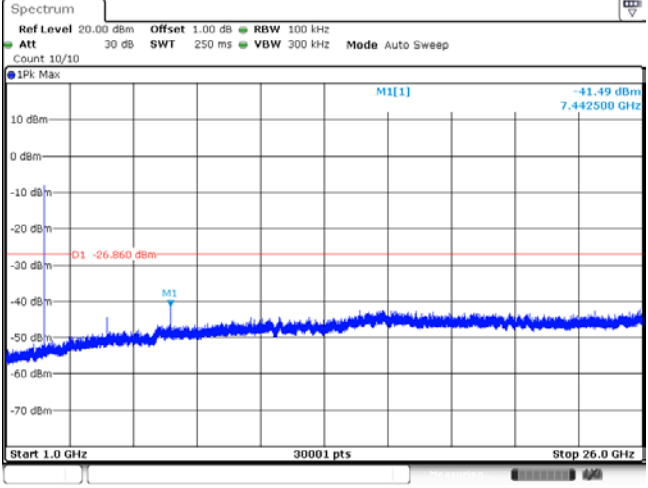
Date: 12 MAY 2023 14:15:53

Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max  Start 2.31 GHz 691 pts Stop 2.405 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>2.40232 GHz</td><td>-5.92 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-48.52 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.77 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.46 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399900 GHz</td><td>-54.41 dBm</td><td></td><td></td></tr></table> Date: 12 MAY 2023 14:01:34	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40232 GHz	-5.92 dBm			M2	1		2.4 GHz	-48.52 dBm			M3	1		2.39 GHz	-63.77 dBm			M4	1		2.31 GHz	-63.46 dBm			M5	1		2.399900 GHz	-54.41 dBm		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.40232 GHz	-5.92 dBm																																							
M2	1		2.4 GHz	-48.52 dBm																																							
M3	1		2.39 GHz	-63.77 dBm																																							
M4	1		2.31 GHz	-63.46 dBm																																							
M5	1		2.399900 GHz	-54.41 dBm																																							
CH79	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 µs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max  Start 2.478 GHz 691 pts Stop 2.5 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>2.480722 GHz</td><td>-5.42 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-58.72 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-68.42 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.4839304 GHz</td><td>-51.52 dBm</td><td></td><td></td></tr></table> Date: 12 MAY 2023 14:32:33	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.480722 GHz	-5.42 dBm			M2	1		2.4835 GHz	-58.72 dBm			M3	1		2.5 GHz	-68.42 dBm			M4	1		2.4839304 GHz	-51.52 dBm									
Type	Ref	Trc	X-value	Y-value	Function	Function Result																																					
M1	1		2.480722 GHz	-5.42 dBm																																							
M2	1		2.4835 GHz	-58.72 dBm																																							
M3	1		2.5 GHz	-68.42 dBm																																							
M4	1		2.4839304 GHz	-51.52 dBm																																							

Test Item:	SE
CH00 Reference level	 Date: 12 MAY 2023 14:11:09
CH00 30MHz~1000MHz	 Date: 12 MAY 2023 14:11:15
CH00 1GHz~26GHz	 Date: 12 MAY 2023 14:12:49

Appendix report page: 13 of 14

CH79 Reference level	 Date: 12 MAY 2023 14:32:49
CH79 30MHz~1000MHz	 Date: 12 MAY 2023 14:33:04
CH79 1GHz~26GHz	 Date: 12 MAY 2023 14:36:17

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