

APPENDIX REPORT

Project No.	SHT2108113006EW		
Model No.	LW-IS-AIR1-Z		
Start test date	2022-03-29	Finish date	2022-03-29
Temperature	25.4℃	Humidity	52%
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

Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CH _L	3.04	3.01	≤ 30.00	Pass
CH _M	2.41	2.36		
CH _H	2.26	2.23		

<p>CH_L</p>	<p>Date: 29 MAR, 2022 13:49:18</p>
<p>CH_M</p>	<p>Date: 29 MAR, 2022 13:26:26</p>
<p>CH_H</p>	<p>Date: 29 MAR, 2022 13:04:55</p>

Appendix B: Power Spectral Density

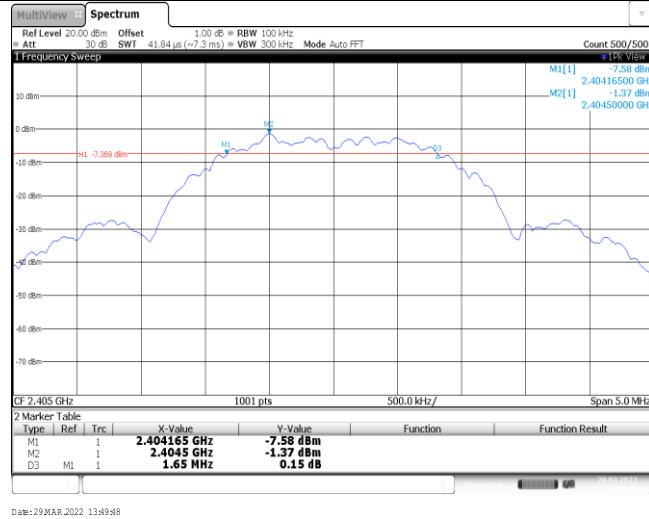
Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	-11.33	≤8.00	Pass
CH _M	-11.81		
CH _H	-12.03		

<p>CH_L</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 30 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -11.33 dBm 2.4054360 GHz CF 2.405 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29 MAR 2022 13:50:11</p>
<p>CH_M</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 30 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -11.81 dBm 2.44042860 GHz CF 2.44 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29 MAR 2022 13:26:41</p>
<p>CH_H</p>	<p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 30 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -12.03 dBm 2.48042260 GHz CF 2.48 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29 MAR 2022 13:05:52</p>

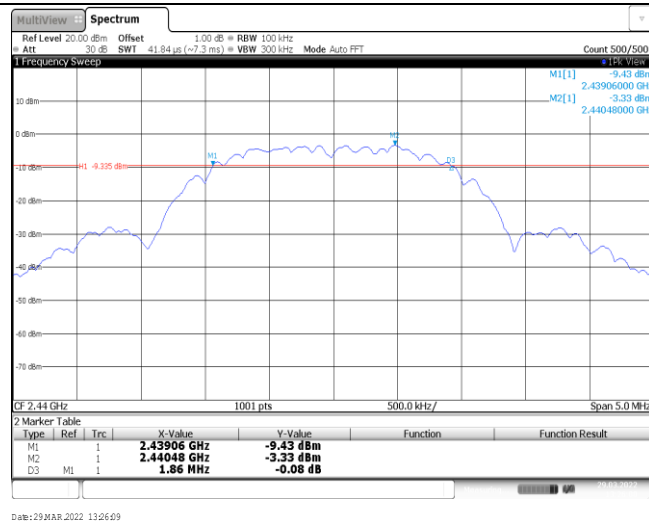
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	1650.00	≥500	Pass
CH _M	1860.00		
CH _H	1755.00		

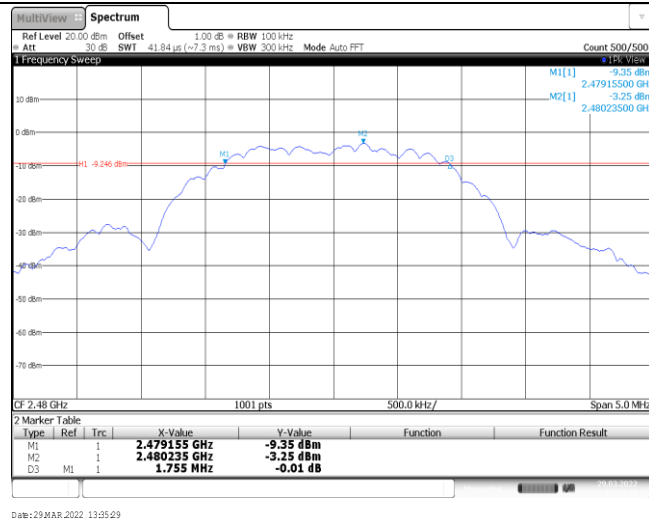
CH_L



CH_M



CH_H



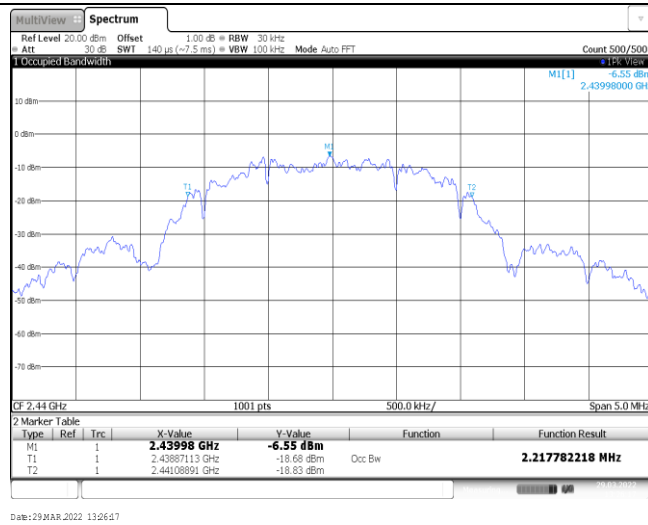
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	2.23	-	Pass
CH _M	2.22		
CH _H	2.22		

CH_L



CH_M

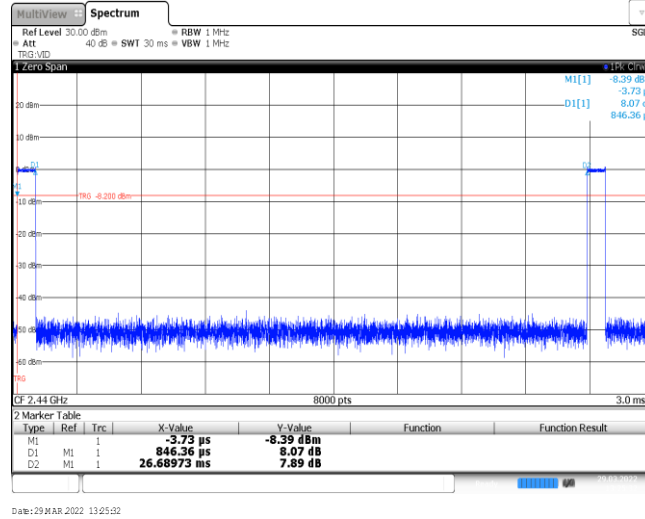


CH_H



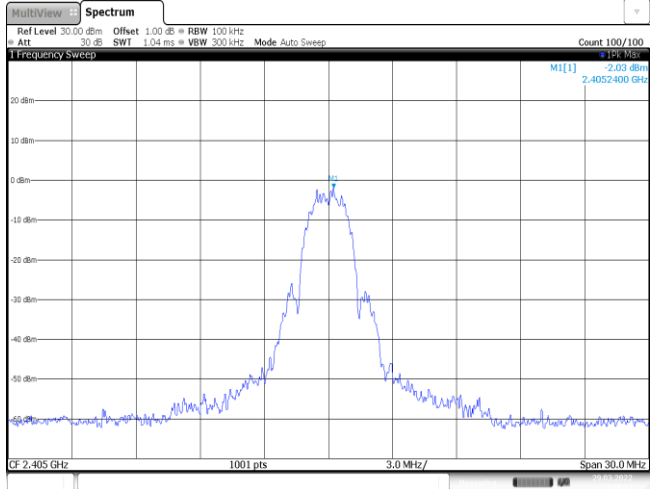
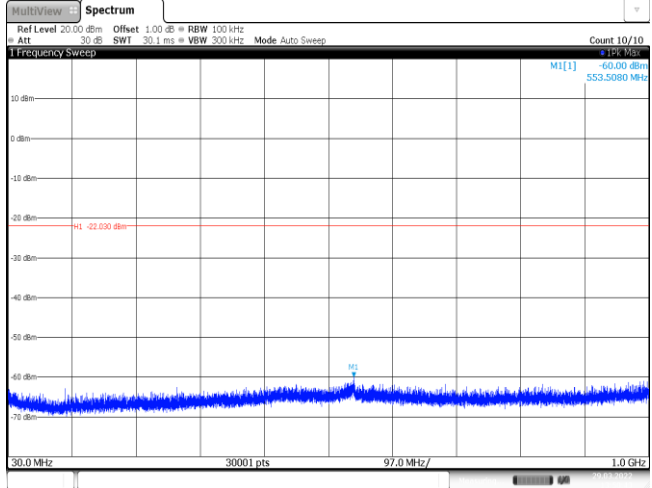
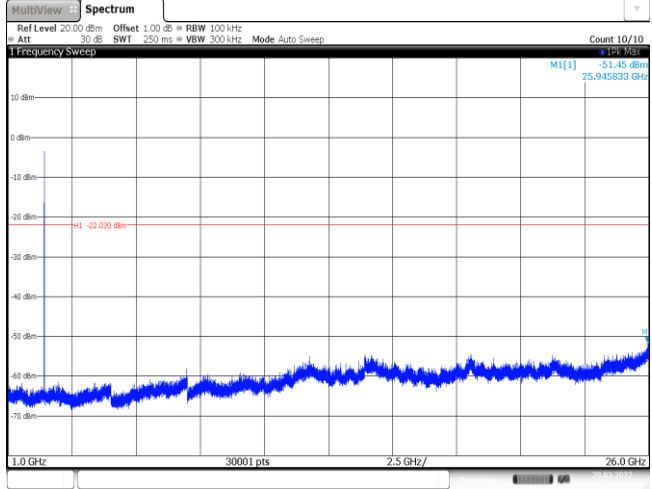
Appendix E: Duty cycle

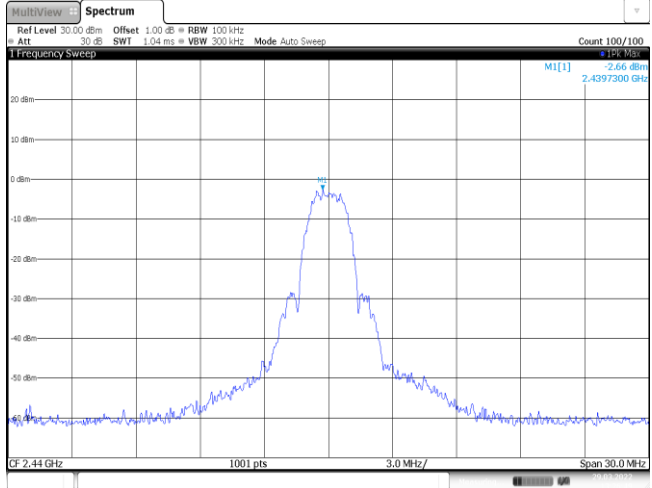
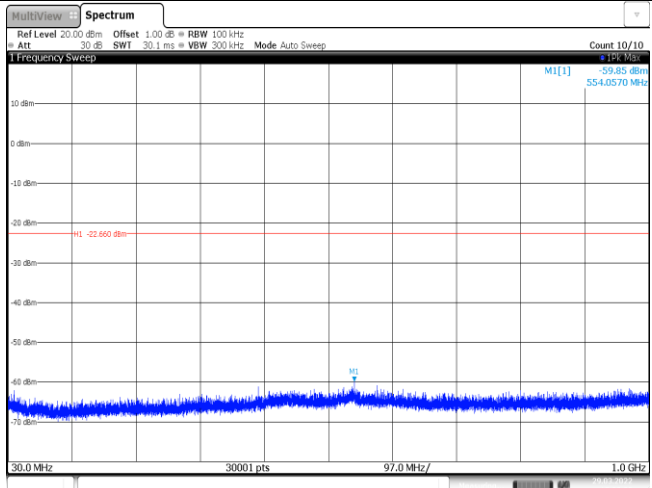
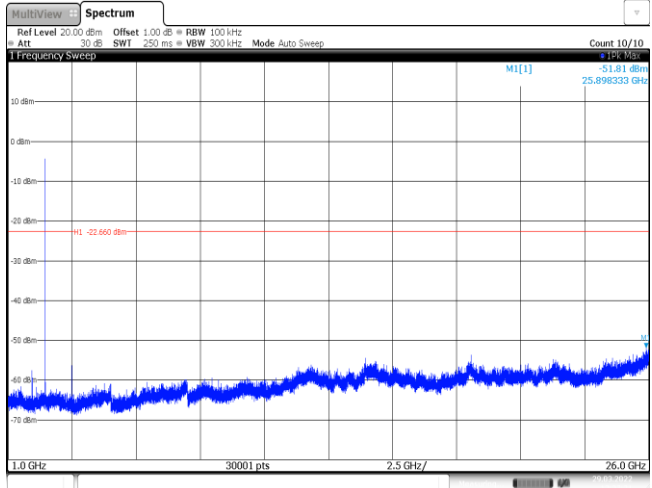
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.85	26.69	3.2%	1.18



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
<p style="text-align: center;">CH_L</p>	<p style="text-align: center;">Date: 29 MAR 2022 13:50:21</p>
<p style="text-align: center;">CH_H</p>	<p style="text-align: center;">Date: 29 MAR 2022 13:56:02</p>

Test Item:	SE
<p>CH_L 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 M1[1] 2.03 dBm 2.4052400 GHz CF 2.405 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29 MAR 2022 13:50:27</p>
<p>CH_L 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 M1[1] -60.00 dBm 553.5080 MHz H1 -21.00 dBm M2 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29 MAR 2022 13:50:43</p>
<p>CH_L 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 M1[1] -51.45 dBm 25.945633 GHz H1 -21.00 dBm M2 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29 MAR 2022 13:51:43</p>

<p>CH_M Reference level</p>	 <p>Date: 29 MAR. 2022 13:26:49</p>
<p>CH_M 30MHz~1000MHz</p>	 <p>Date: 29 MAR. 2022 13:27:05</p>
<p>CH_M 1GHz~26GHz</p>	 <p>Date: 29 MAR. 2022 13:27:21</p>

<p>CH_H Reference level</p>	<p>CH_H Reference level</p>
<p>CH_H 30MHz~1000MHz</p>	<p>CH_H 30MHz~1000MHz</p>
<p>CH_H 1GHz~26GHz</p>	<p>CH_H 1GHz~26GHz</p>

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