

APPENDIX REPORT

Project No.	SHT2206013501EW		
Test sample No.	YPHT22060135001	Model No.	HY-616B
Start test date	2022-08-09	Finish date	2022-08-09
Temperature	25.6°C	Humidity	34%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhe

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	7.66	7.65	≤ 30.00	Pass
CH _M	7.29	7.27		
CH _H	6.96	6.94		

<p>CH_L</p>	<p>Ref Level 20.00 dBm Att 35 dB SWF 1.01 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep Count 500/500</p> <p>M1[1] 7.66 dBm 902.78520 MHz</p> <p>CF 903.0 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz</p> <p>Date: 9/20/2022 10:20:04</p>
<p>CH_M</p>	<p>Ref Level 20.00 dBm Att 35 dB SWF 1.01 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep Count 500/500</p> <p>M1[1] 7.29 dBm 914.78520 MHz</p> <p>CF 915.0 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz</p> <p>Date: 9/20/2022 10:23:40</p>
<p>CH_H</p>	<p>Ref Level 20.00 dBm Att 35 dB SWF 1.01 ms RBW 2 MHz VBW 5 MHz Mode Auto Sweep Count 500/500</p> <p>M1[1] 6.96 dBm 926.46520 MHz</p> <p>CF 926.7 MHz 1001 pts 500.0 kHz/ Span 5.0 MHz</p> <p>Date: 9/20/2022 10:22:04</p>

Appendix B: Power Spectral Density

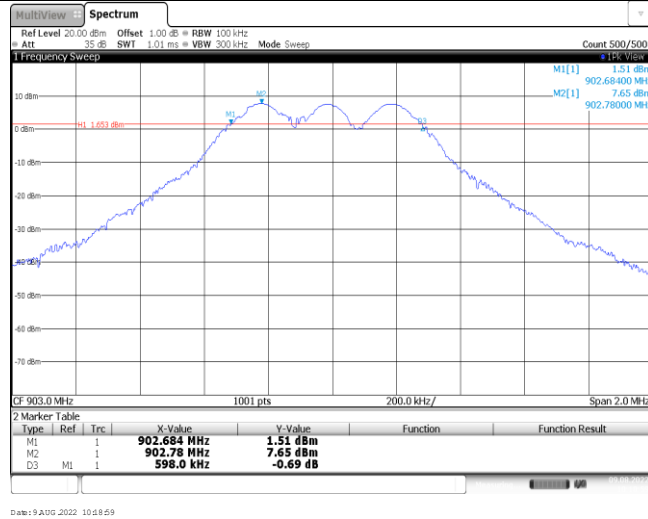
Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	7.48	≤8.00	Pass
CH _M	7.12		
CH _H	6.81		

<p>CH_L</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWF 11.2 ns VBW 10 kHz Mode Sweep Count 100/100 M[1] 7.48 dBm 902.780200 MHz CF 903.0 MHz 1001 pts 100.0 kHz/pt Span 1.0 MHz Date: 9/10/2022 10:20:47</p>
<p>CH_M</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWF 11.2 ns VBW 10 kHz Mode Sweep Count 100/100 M[1] 7.12 dBm 914.780200 MHz CF 915.0 MHz 1001 pts 100.0 kHz/pt Span 1.0 MHz Date: 9/10/2022 10:24:41</p>
<p>CH_H</p>	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 3 kHz Att 35 dB SWF 11.2 ns VBW 10 kHz Mode Sweep Count 100/100 M[1] 6.81 dBm 926.480200 MHz CF 926.7 MHz 1001 pts 100.0 kHz/pt Span 1.0 MHz Date: 9/10/2022 10:23:12</p>

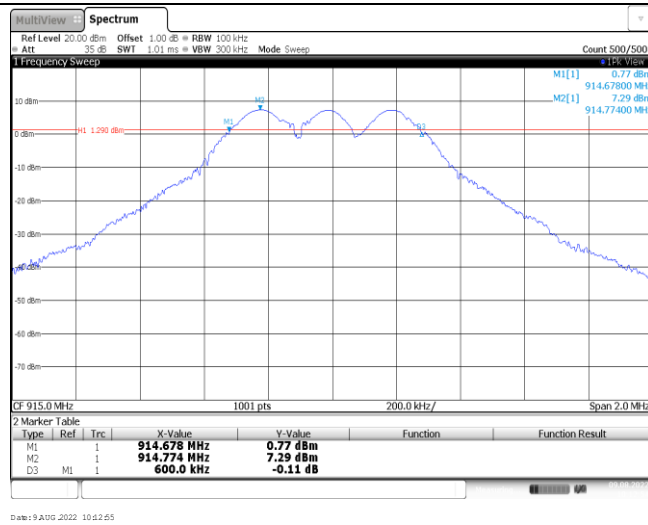
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	598.00	≥500	Pass
CH _M	600.00		
CH _H	606.00		

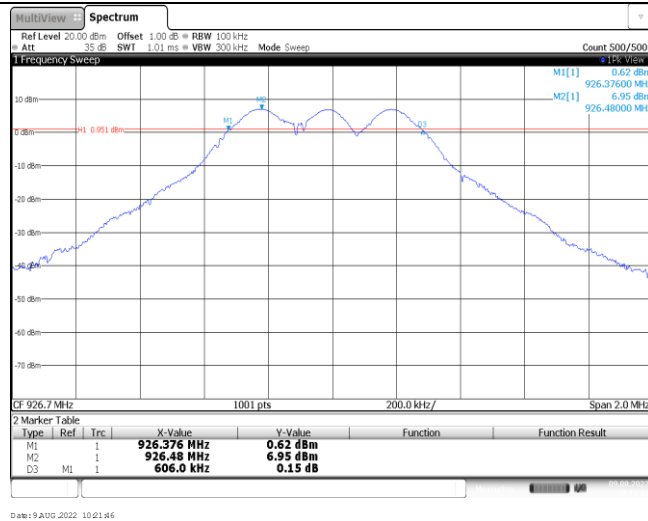
CH_L



CH_M



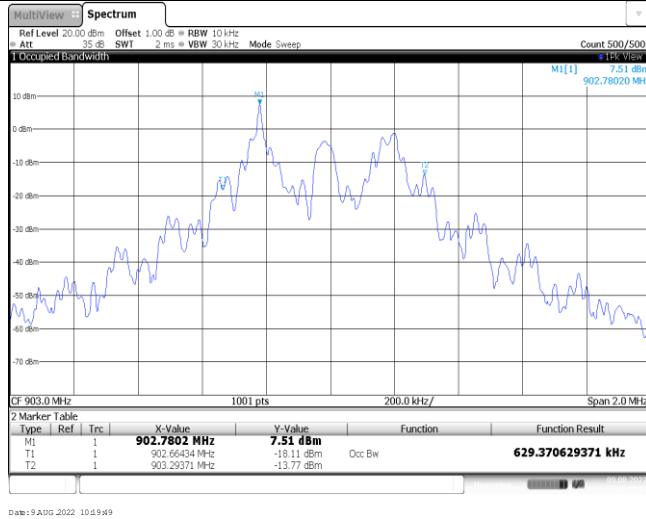
CH_H



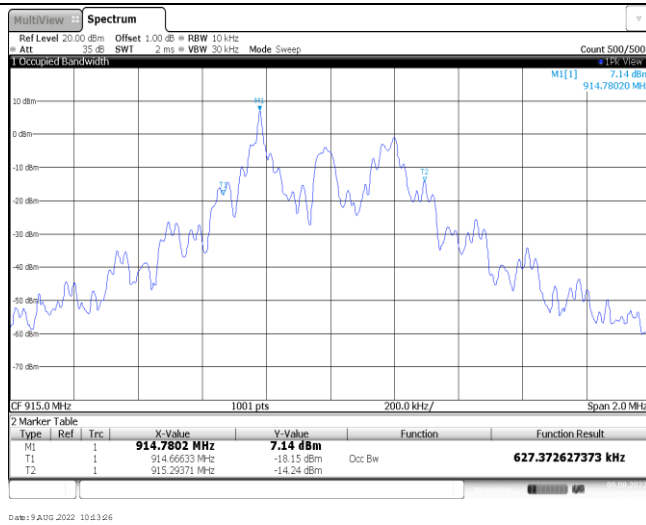
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	0.63	-	Pass
CH _M	0.63		
CH _H	0.63		

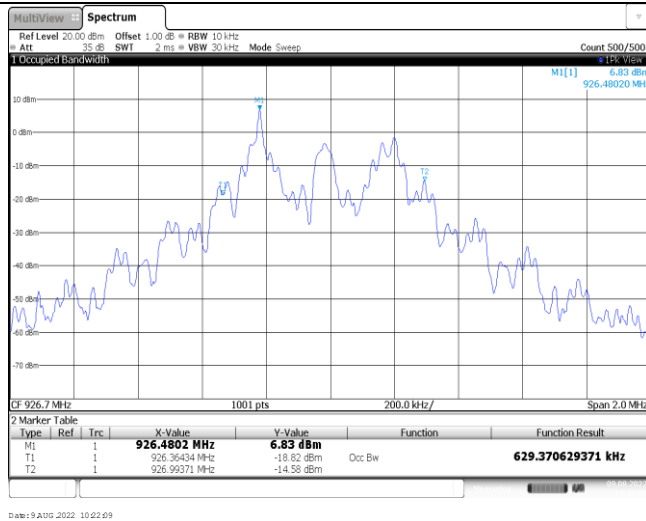
CH_L



CH_M

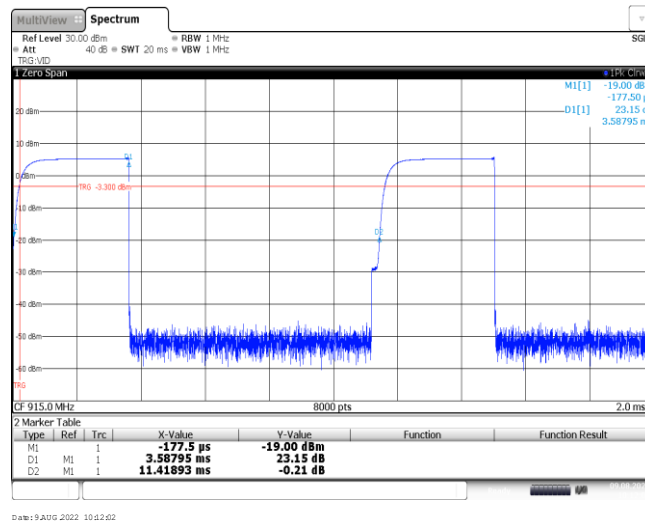


CH_H

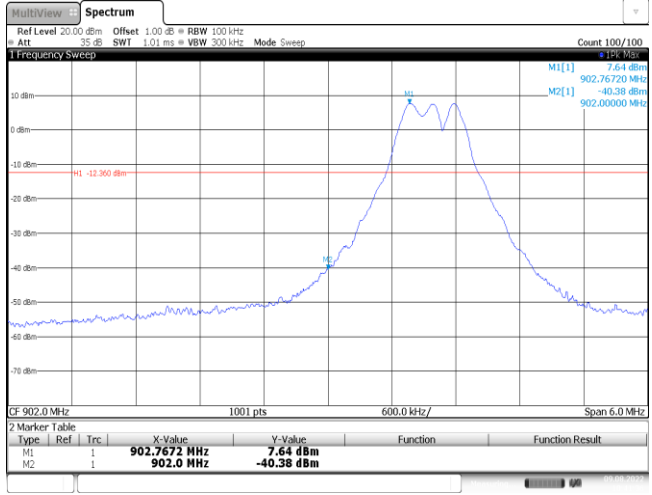
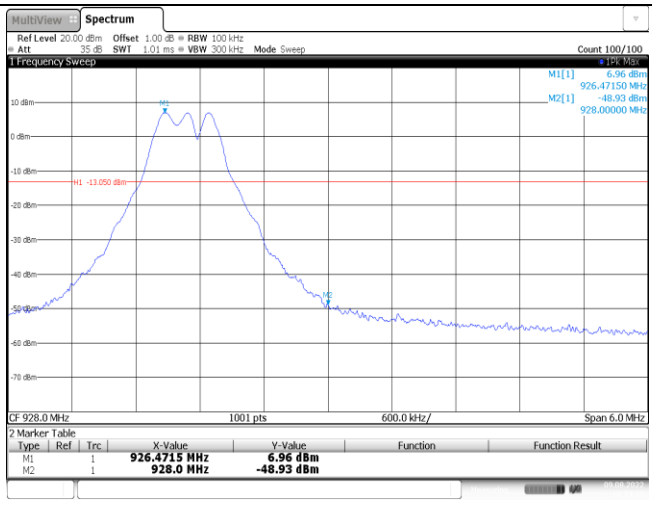


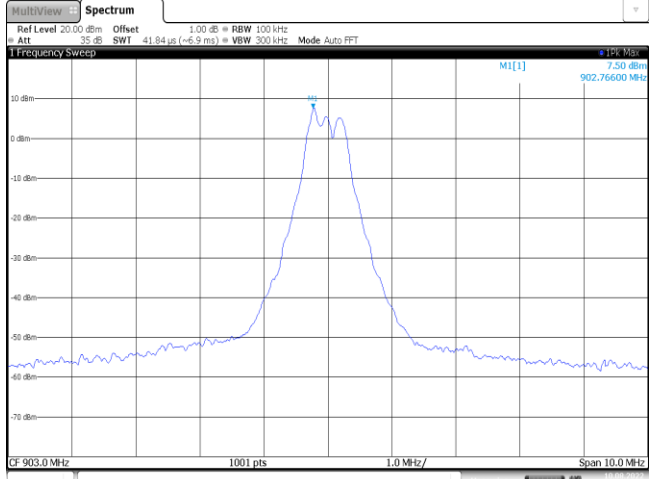
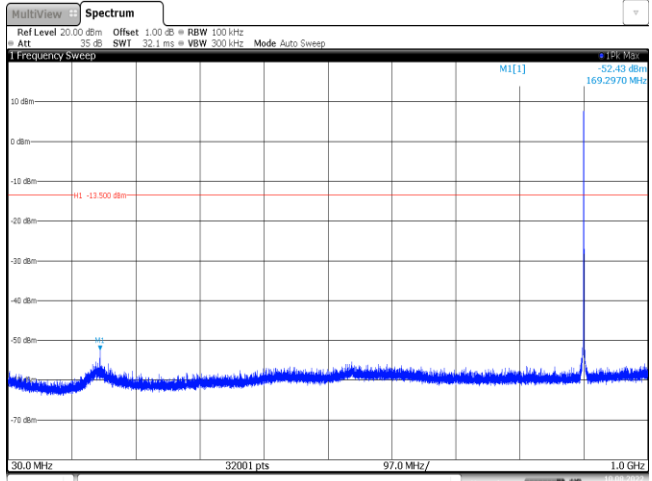
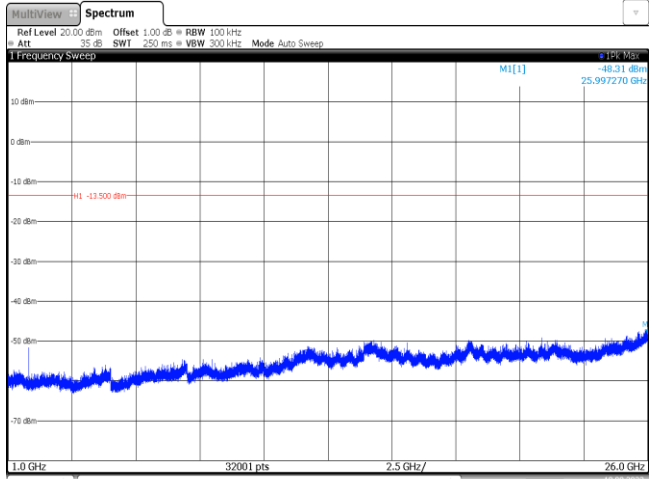
Appendix E: Duty cycle

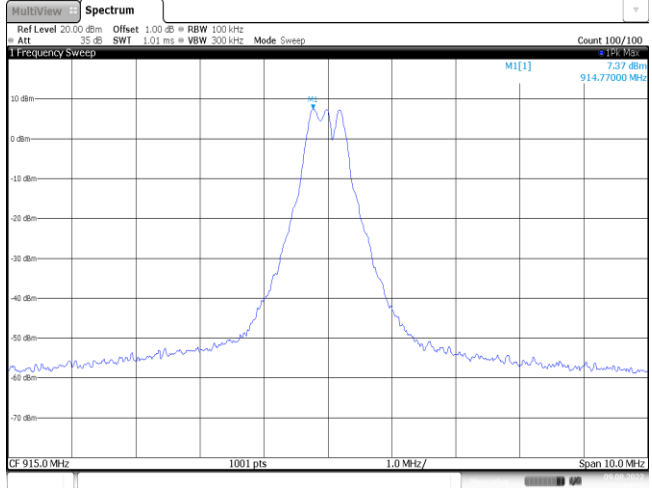
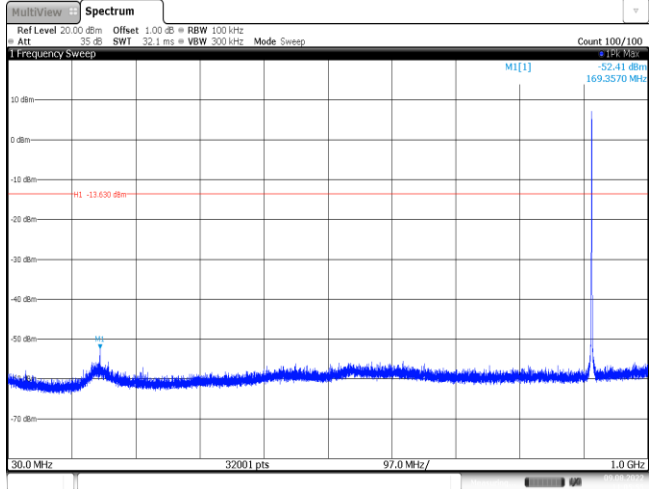
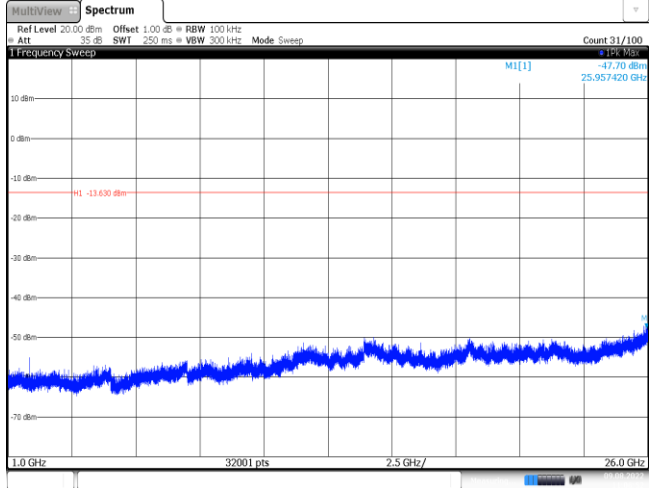
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
915	3.59	11.42	31.4%	0.3



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																					
<p style="text-align: center;">CH_L</p>	 <p>Marker Table:</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>902.7672 MHz</td> <td>7.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>902.0 MHz</td> <td>-40.38 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 9 AUG 2022 10:41:26</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		902.7672 MHz	7.64 dBm			M2	1		902.0 MHz	-40.38 dBm		
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M1	1		926.4715 MHz	6.96 dBm																		
M2	1		928.0 MHz	-48.93 dBm																		

Test Item:	SE
<p>CH_L Reference level</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWI 41.84 μs (-6.9 ms) VBW 300 kHz Mode Auto FFT 1 Frequency Sweep M1[1] 7.50 dBm 902.76600 MHz CF 903.0 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz Date: 10.AUG.2022 14:59:56</p>
<p>CH_L 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWI 32.1 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M1[1] -52.43 dBm 169.2970 MHz M1 -13.500 dBm 30.0 MHz 32001 pts 97.0 MHz/ 1.0 GHz Date: 10.AUG.2022 15:01:50</p>
<p>CH_L 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 35 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep 1 Frequency Sweep M1[1] -49.31 dBm 25.997270 GHz M1 -13.500 dBm 1.0 GHz 32001 pts 2.5 GHz/ 26.0 GHz Date: 10.AUG.2022 15:03:06</p>

<p>CH_M Reference level</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 Att -35 dB SWT 1.01 ms VBW 300 kHz Mode Sweep Frequency Sweep MI[1] 7.37 dBm 914.77000 MHz CF 915.0 MHz 1001 pts 1.0 MHz/ Span 10.0 MHz Date: 9 AUG 2022 11:44:22</p>
<p>CH_M 30MHz~1000MHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 100/100 Att -35 dB SWT 32.1 ms VBW 300 kHz Mode Sweep Frequency Sweep MI[1] -52.41 dBm 169.3570 MHz MI -13.630 dBm 30.0 MHz 32001 pts 97.0 MHz/ 1.0 GHz Date: 9 AUG 2022 11:45:54</p>
<p>CH_M 1GHz~26GHz</p>	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Count 31/100 Att -35 dB SWT 250 ms VBW 300 kHz Mode Sweep Frequency Sweep MI[1] -47.70 dBm 25.957420 GHz MI -13.630 dBm 1.0 GHz 32001 pts 2.5 GHz/ 26.0 GHz Date: 9 AUG 2022 11:46:52</p>

