

APPENDIX REPORT

Project No.	SHT2006039701EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20060397005	Model No.	Leya-W-BTE-M
Start test date	2020/6/15	Finish date	2020/6/15
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	<i>William.wang</i>

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	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-13.06	-13.07	≤30.00	Pass
	19	-11.53	-11.55		
	39	-10.68	-10.69		

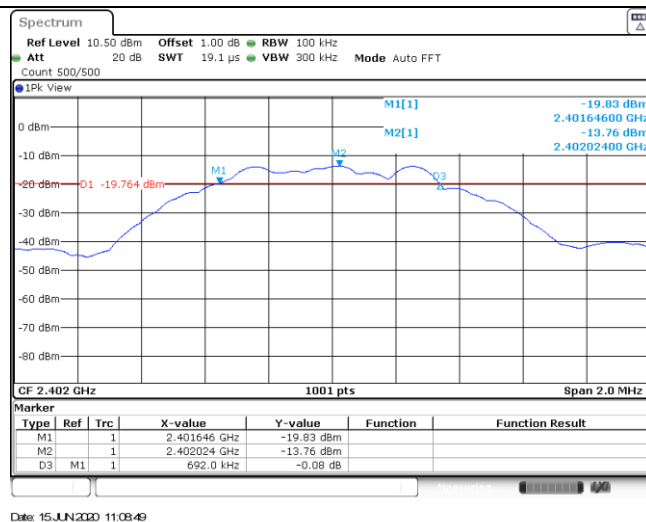
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-31.78	≤8.00	Pass
	19	-30.11		
	39	-29.17		

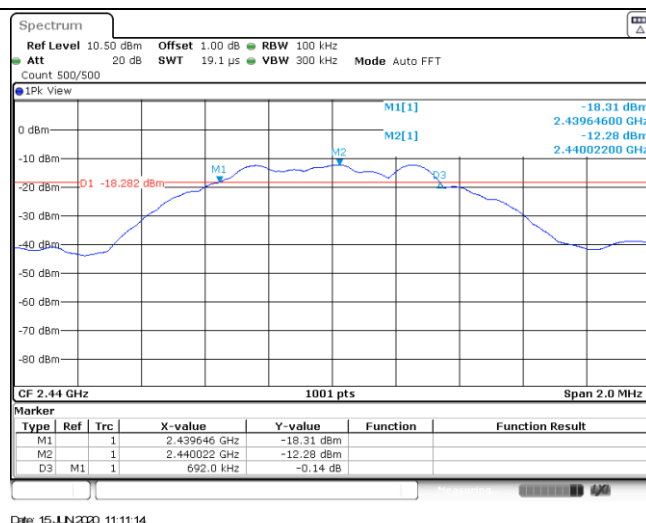


Appendix C: 6dB bandwidth

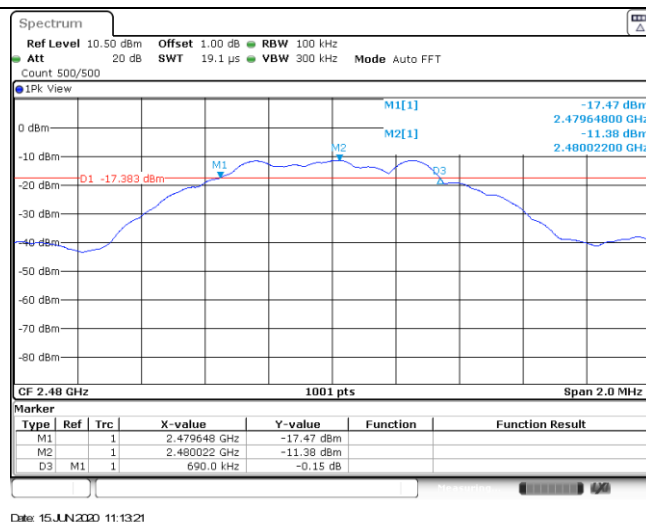
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	692.00	≥500	Pass
	19	692.00		
	39	690.00		



Date: 15 JUN 2020 11:08:49



Date: 15 JUN 2020 11:11:14



Date: 15 JUN 2020 11:13:21

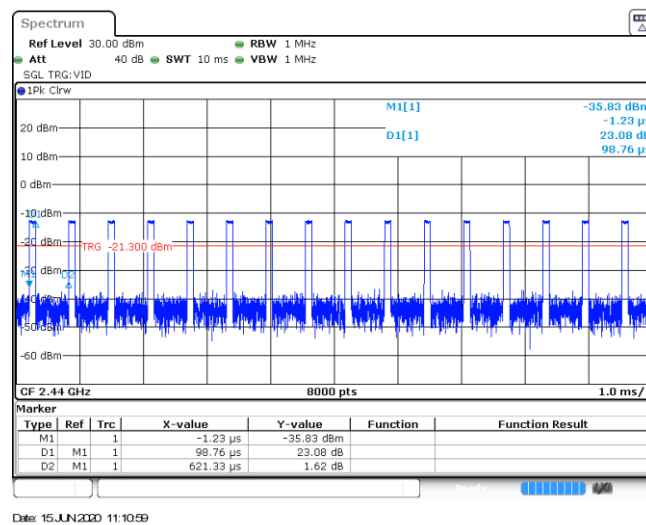
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.05	-	Pass
	19	1.05		
	39	1.05		

CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -18.07 dBm 2.40198800 GHz 1.046953047 MHz Occ Bw M1 T1 T2 CF 2.402 GHz 1001 pts Span 2.0 MHz Date: 15 JUN 2020 11:08:57
CH19	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -16.41 dBm 2.43999000 GHz 1.046953047 MHz Occ Bw M1 T1 T2 CF 2.44 GHz 1001 pts Span 2.0 MHz Date: 15 JUN 2020 11:11:23
CH39	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att 20 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500 IPk View M1[1] -15.44 dBm 2.47998800 GHz 1.044955045 MHz Occ Bw M1 T1 T2 CF 2.48 GHz 1001 pts Span 2.0 MHz Date: 15 JUN 2020 11:13:29

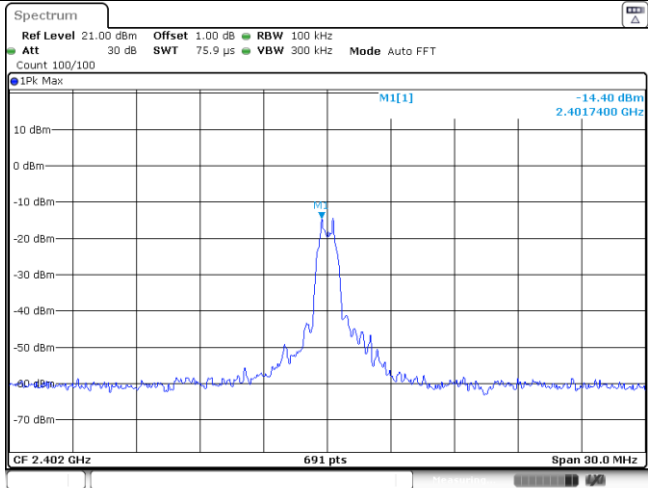
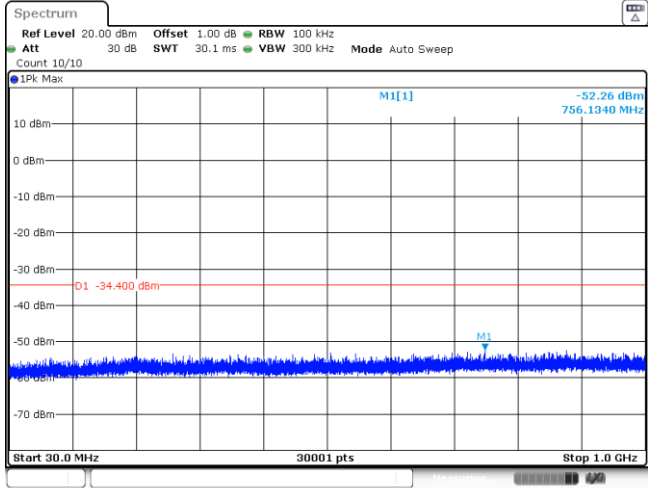
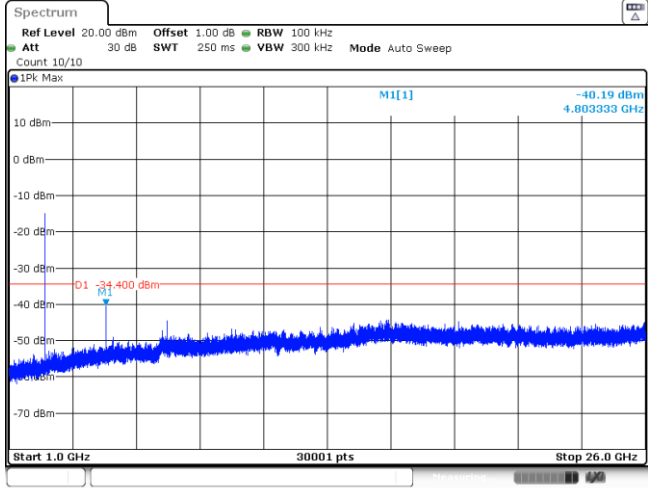
Appendix E: Duty cycle

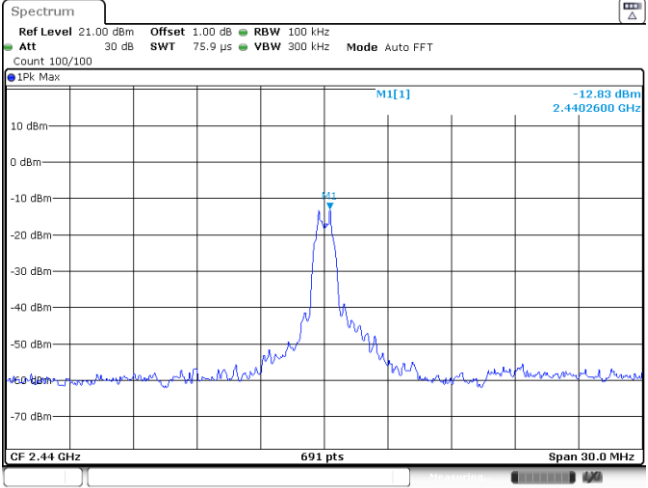
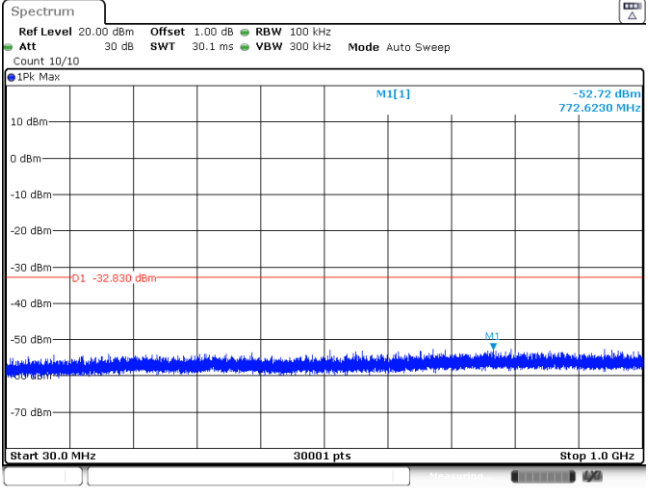
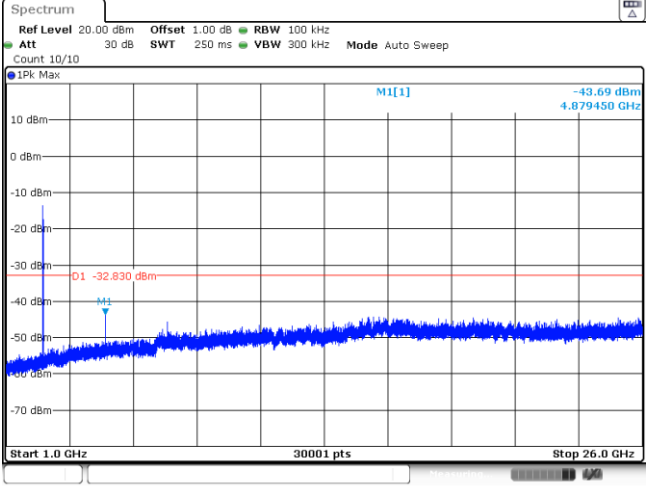
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.10	0.62	16.1%	10

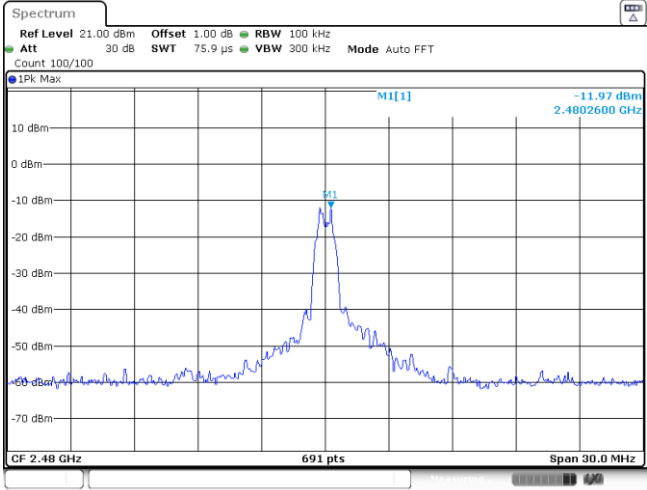
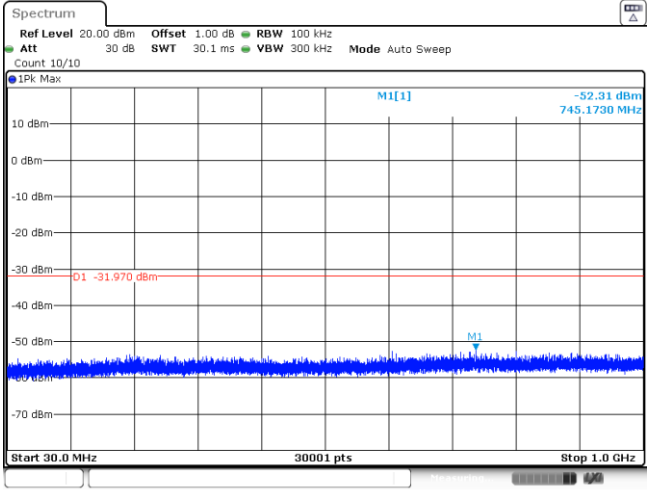
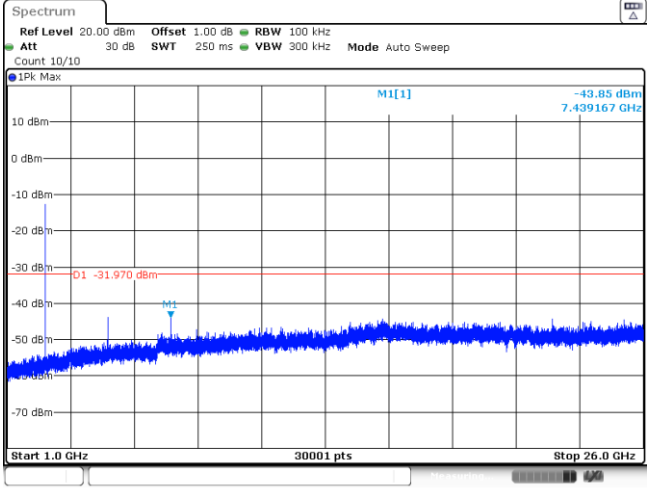


Appendix F: Band edge and Spurious Emissions (conducted)

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 <

Test Item:	SE
CH00 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max M1[1] -14.40 dBm 2.4017400 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 15.JUN.2020 11:09:37
CH00 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -52.26 dBm 756.1340 MHz D1 -34.400 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 15.JUN.2020 11:09:53
CH00 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max M1[1] -40.19 dBm 4.803333 GHz D1 -34.400 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 15.JUN.2020 11:10:09

CH19 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -12.83 dBm 2.4402600 GHz CF 2.44 GHz 691 pts Span 30.0 MHz Date: 15.JUN.2020 11:11:53
CH19 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -52.72 dBm 772.6230 MHz D1 -32.830 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 15.JUN.2020 11:12:08
CH19 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -43.69 dBm 4.879450 GHz D1 -32.830 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 15.JUN.2020 11:12:57

CH39 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] -11.97 dBm 2.4802600 GHz CF 2.48 GHz 691 pts Span 30.0 MHz Date: 15 JUN 2020 11:14:09
CH39 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -52.31 dBm 745.1730 MHz D1 -31.970 dBm Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 15 JUN 2020 11:14:25
CH39 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -43.85 dBm 7.439167 GHz D1 -31.970 dBm Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 15 JUN 2020 11:14:41

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