







Report No.:/报告编号: GZLS20190325U01

检测报告

TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Polymer Battery

产品名称: 二次锂电池组/锂离子电池

CLIENT: TWS Technology (Guangzhou) Limited

委托单位:广州明美新能源有限公司

CLASSIFICATION OF TEST: Commission test

检测类别: 委托检测

广州邦禾检测技术有限公司

Guangzhou MCM Certification and Testing Co., Ltd



	Applicant information 申请资料
Name of samples 样品名称	Rechargeable Li-ion Polymer Battery 二次锂电池组/锂离子电池
Samples' type 样品类型	Lithium Ion Battery 锂离子电池
Type/ Model 型号规格	BT-000393 3.8V 6350mAh 24.13Wh
Brand 商标	
Appearance 样品外观	This battery is constructed with 2 lithium-ion cells (2P1S) and has overcharge, over-discharge, over current and short-circuits proof circuit, covered with hard black plastic film, approx 112g/pcs. 电池由 2 个电芯组成(2 并 1 串) 和含有过充、过放、过流和短路的保护线路,覆盖黑色塑膜,质量约为 112g。
Client 委托单位	TWS Technology (Guangzhou) Limited 广州明美新能源有限公司 No.39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone, Guangzhou 510663, P.R.China 广州市高新技术产业开发区科学城南云三路 39 号 Tel: +86-20-29114223 Fax: +86-20-22215113
Manufacturer 制造商	E-mail: li.jun@tws.com TWS Technology (Guangzhou) Limited 广州明美新能源有限公司 No.39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone, Guangzhou 510663, P.R.China 广州市高新技术产业开发区科学城南云三路 39 号
Factory 生产厂	TWS Technology (Guangzhou) Limited 广州明美新能源有限公司 No.39 Nanyunsan Road, Science Park, Hi-Tech Industrial Development Zone, Guangzhou 510663, P.R.China 广州市高新技术产业开发区科学城南云三路 39 号
Testing standard 测试标准	UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6, amend1, section 38.3. 联合国《关于危险货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.6, amend1, section 38.3.
Sample quantity 样品数量	46pcs: 16B+30C
Receiving date 接收日期	2019.03.25
Test date 测试日期	2019.03.25 – 2019.04.22

公准基 少

		Test Conclusion 测试结论		
No.	Name of test	Test result	Conclusion	Remarks
序号	测试项目名称	测试结果	本项结论	备注
1	38.3.4.1 Altitude simulation	See Appendix 1	Passed	1
	38.3.4.1 高度模拟	见附表 1	合格	
2	38.3.4.2 Thermal test	See Appendix 2	Passed	1
2	38.3.4.2 温度试验	见附表 2	合格	,
3	38.3.4.3 Vibration	See Appendix 3	Passed	1
3	38.3.4.3 振动	见附表 3	合格	/
4	38.3.4.4Shock	See Appendix 4	Passed	,
4	38.3.4.4 冲击	见附表 4	合格	/
5	38.3.4.5External Short-circuit	See Appendix 5	Passed	1
5	38.3.4.5 外部短路	见附表 5	合格	1
	38.3.4.6 Impact	,		N/A
•	38.3.4.6 撞击	/	/	不适用
6	38.3.4.6 Crush	See Appendix 6	Passed	,
	38.3.4.6 挤压	见附表 6	合格	7
7	38.3.4.7 Overcharge	See Appendix 7	Passed	.,
1	38.3.4.7 过度充电	见附表 7	合格	<i>y</i>
•	38.3.4.8 Forced discharge	See Appendix 8	Passed	7
8	38.3.4.8 强制放电	见附表 8	合格	7

Conclusion/结论:

The Rechargeable Li-ion Polymer Batteries submitted by TWS Technology (Guangzhou) Limited have passed the test items of UNITED NATIONS" Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria ST/SG/AC.10/11/Rev.6, amend1, section 38.3.

由广州明美新能源有限公司送检的二次锂电池组/锂离子电池符合联合国《关于危险品货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.6,amend1,section 38.3 的要求。

Tested by Ye Runlong	(Test Engineer)	
测试: Ye Runlong	(测试工程师)	
Reviewed by Huang Yining	(Audit Engineer)	Seal/检测专用章: 拉洲点层岩
审核: Huane Yining	(审核工程师)	Date of issue/日期: April 24, 2019
Approved by Xu Hongbin	(Approval Engineer)	
批准: Le faction	(批准工程师)	

Photos of samples and markings 样品及标识照片

Battery (BT-000393 3.8V 6350mAh 24.13Wh)

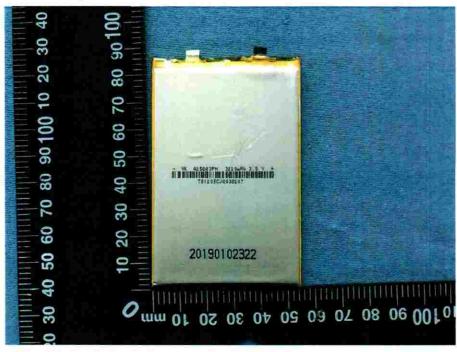


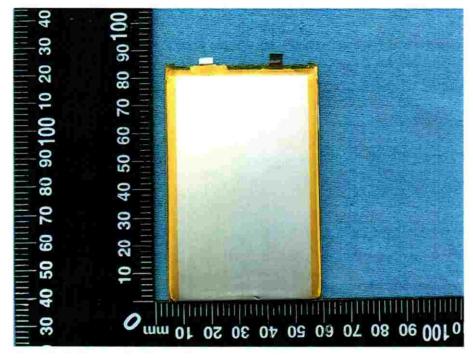


Model(型号):BT-000393
Rechargeable (3.8V) Li-ion Polymer Battery
FOR USE WITH ET5X SERIES ONLY
充电限制电压: 4.35V 1ICP5/56/84-2
二次鋰電池組/锂离子电池
MIN.(額/额定容量):6350mAh 24.13Wh

Photos of samples and markings 样品及标识照片

Component cell (425683PH 3.8V 3220mAh 12.236Wh)







		Apper 附身				
Control of the Contro	had till	FIJT				
Test procedure						
Test cells and ambient temporary	erature (20±5°C	C).				
					· 1> • • 1	
			3			
B5#-B8#: afte	r 25 cycles end	ling in fully char	ged states		_	
Result 测试结果)				
Before 测试前		After 测试后		Mass loss	Residual	Test
Mass 样品质量	Voltage 开路电压	Mass 样品质量	Voltage 开路电压	质量损失	OCV 剩余电压	resul 测试
(g)	(V)	(g)	(V)	(%)	(%)	结果
111.907	4.33	111.906	4.32	0.001	99.77	0
112.012	4.32	112.012	4.32	0.000	100.00	0
112.475	4.33	112.474	4.32	0.001	99.77	0
112.017	4.32	112.017	4.32	0.000	100.00	0
111.887	4.33	111.886	4.32	0.001	99.77	0
111.681	4.33	111.680	4.33	0.001	100.00	О
111.908	4.33	111.908	4.33	0.000	100.00	0
111.783	4.32	111.783	4.32	0.000	100.00	0
	38.3.4.1 高度 Test procedu 测试步骤 Test cells and ambient temp 试验电池芯和 Sample statu 样品状态 B1#-B4#: 在第 B5#-B8#: 在第 Result 测试结果 Before Mass 样品质量 (g) 111.907 112.012 112.475 112.017 111.887 111.681 111.908	测试步骤 Test cells and batteries sha ambient temperature (20±5℃ 试验电池芯和电池在环境温度 Sample status 样品状态 B1#-B4#: at first cycle in fully B1#-B4#:在第一个循环完全分 B5#-B8#: after 25 cycles end B5#-B8#:在第 25 个循环完全 Result 测试结果 Before 测试前 Mass Voltage 并路电压 (g) (V) 111.907 4.33 112.012 4.32 112.475 4.33 112.017 4.32 111.887 4.33 111.681 4.33 111.908 4.33	Test procedure 测试步骤 Test cells and batteries shall be stored at ambient temperature (20±5℃). 试验电池芯和电池在环境温度 (20±5℃)下, Sample status 样品状态 B1#-B4#: at first cycle in fully charged states B1#-B4#:在第一个循环完全充电状态 B5#-B8#: after 25 cycles ending in fully char B5#-B8#:在第 25 个循环完全充电状态 Result 测试结果 Before 测试前 Mass Voltage 样品质量 (g) (V) (g) 111.907 4.33 111.906 112.012 4.32 112.012 112.475 4.33 111.886 111.681 4.33 111.680 111.908 4.33 111.908	附表 1 38.3.4.1 Altitude simulation 38.3.4.1 高度模拟 Test procedure 测试步骤 Test cells and batteries shall be stored at a pressure of ambient temperature (20±5℃). 试验电池芯和电池在环境温度 (20±5℃)下,储存在小于等于 Sample status 样品状态 B1#-B4#: at first cycle in fully charged states B1#-B4#:在第一个循环完全充电状态 B5#-B8#: after 25 cycles ending in fully charged states B5#-B8#:在第 25 个循环完全充电状态 Result 测试结果 Before 测试前 After 测试后 Mass Voltage Mass Voltage 样品质量 开路电压 样品质量 开路电压 (g) (V) (g) (V) 111.907 4.33 111.906 4.32 112.012 4.32 112.012 4.32 112.475 4.33 112.474 4.32 111.887 4.33 111.886 4.32 111.681 4.33 111.680 4.33 111.908 4.33 111.908 4.33	附表 1 38.3.4.1 Altitude simulation 38.3.4.1 高度模拟 Test procedure 测试步骤 Test cells and batteries shall be stored at a pressure of 11.6kPa or less ambient temperature (20±5℃).	附表 1 38.3.4.1 Altitude simulation 38.3.4.1 高度模拟 Test procedure 测试步骤 Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least s ambient temperature (20±5℃). 试验电池芯和电池在环境温度 (20±5℃)下,储存在小于等于 11.6kPa 的压力下至少 6 小时 Sample status 样品状态 B1#-B4#: at first cycle in fully charged states B1#-B4#:在第一个循环完全充电状态 B5#-B8#: after 25 cycles ending in fully charged states B5#-B8#:在第 25 个循环完全充电状态 Result 测试结果 Before 测试前 After 测试后 Mass Voltage 开路电压 (%) (V) (g) (V) (Y) (%) (%) (%) (%) (%) (111.907 4.33 111.906 4.32 0.001 99.77 112.012 4.32 112.012 4.32 0.001 99.77 112.012 4.32 112.012 4.32 0.001 99.77 112.017 4.32 112.017 4.32 0.001 99.77 112.017 4.32 112.017 4.32 0.001 99.77 112.017 4.33 111.886 4.32 0.001 99.77 111.681 4.33 111.680 4.33 0.001 100.00 110.00 111.908 4.33 111.908 4.33 0.000 100.00

			Apper 附表				
Items	38.3.4.2 Therr						
项目	38.3.4.2 温度试验 Test procedure						
1.1	测试步骤						
	2 ℃, followed maximum time repeated until for 24 hours a 将电芯和电池 少于 6 个小时 度为 20±5℃	by storage for interval between 10 total cycles tambient temper 在温度为 72±2,两个温度间的的条件下放置 20	r at least six heen test temper are complete, erature (20±5° ℃的条件下贮存 间隔最长为 300	nours at a test rature extreme after which all C). 字不少于 6 个小	burs at a test tell temperature es is 30 minutes test cells and burn, 然后, 在温, 述步骤直到 10	qual to -40 ± 2 This procedure patteries are to 度-40±2℃条件	2℃,The is to be be store
1.2	Sample statu 样品状态	s					
	B1#-B4#: at fi B1#-B4#:在第 B5#-B8#: afte	rst cycle in fully 一个循环完全充 r 25 cycles end 25 个循环完全	电状态 ing in fully char	^			
1.3	Result 测试结果						
Sample	Before	测试前	After	测试后	Massissa	Residual	Test
No.	Mass	Voltage	Mass	Voltage	Mass loss 质量损失	OCV	result
	样品质量	开路电压	样品质量	开路电压		剩余电压	测试
编号	(g)	(V)	(g)	(V)	(%)	(%)	结果
B1#	111.906	4.32	111.894	4.26	0.011	98.61	0
B2#	112.012	4.32	112.001	4.25	0.010	98.38	0
B3#	112.474	4.32	112.463	4.25	0.010	98.38	0
B4#	112.017	4.32	112.006	4.25	0.010	98.38	0
B5#	111.886	4.32	111.876	4.25	0.009	98.38	0
B6#	111.680	4.33	111.668	4.26	0.011	98.38	0
B7#	111.908	4.33	111.894	4.25	0.013	98.15	0
B8#	111.783	4.32	111.772	4.25	0.010	98.38	0
Note: 备注	disassembly,	no rupture, no f	fire.		O-No leakage, 漏、无排气、无	22 22	无起火

			Apper 附表				
Items 项目	38.3.4.3 Vibration 38.3.4.3 振动						
1.1	Test procedure 测试步骤						
	Cells and batt cells in such wave form wi minutes, This perpendicular 将电芯和电池 200Hz,然后	a manner as t th a logarithmic cycle shall be mounting posit 年固地安装在打	o faithfully tran c sweep betweet repeated 12 ti tion of the cell. 最动台的台面上 为一个循环,一	smit the vibraten 7 Hz and 2 imes for a total , 然后开始振	e vibration mach tion, The vibrati 00 Hz and back al of 3 hours fo 动。振动以正弦 5 分钟的对数扫	on shall be a to 7 Hz trave reach of three 波形式,以 7h	sinusoid rsed in 1 e mutual Hz 增加3
1.2	Sample statu 样品状态		-				
1.3	B1#-B4#: at first cycle in fully charged states B1#-B4#:在第一个循环完全充电状态 B5#-B8#: after 25 cycles ending in fully charged states B5#-B8#:在第 25 个循环完全充电状态 Result						
Comple	测试结果 Before 测试前 After 测试后			则试后		Residual	Test
Sample No. 编号	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass loss 质量损失 (%)	OCV 剩余电压 (%)	result 测试 结果
B1#	111.894	4.26	111.892	4.25	0.002	99.77	0
B2#	112.001	4.25	112.000	4.23	0.001	99.53	0
B3#	112.463	4.25	112.460	4.24	0.003	99.76	0
B4#	112.006	4.25	112.006	4.23	0.000	99.53	0
B5#	111.876	4.25	111.875	4.23	0.001	99.53	0
B6#	111.668	4.26	111.666	4.25	0.002	99.77	0
B7#	111.894	4.25	111.891	4.24	0.003	99.76	0
B8#	111.772	4.25	111.771	4.24	0.001	99.76	0
Note: 备注	disassembly,	no rupture, no f	ire.		O-No leakage, r 漏、无排气、无		无起火

			Apper 附表				
Items 项目	38.3.4.4 Shock 38.3.4.4 冲击						
1.1	Test procedu 测试步骤	re					
	will support al shock of peak milliseconds for subjected to the each of three shocks. 被测电芯和电流所经受的半正式	I mounting sur acceleration of or small batterion hree shocks in mutually perp 他用坚硬的支架 该冲击加速度取	faces of each depending on the sand 11 millist the positive distribution of the positive distribution	battery. Each to the mass of the seconds for large rection and to to nting positions 置上,支架支撑 是。小型电池脉	achine by mean pattery shall be battery. The page batteries. Each three shocks in of the cell or 着每个试验电池中持续时间 6 毫次冲击,负向耳	subjected to a pulse duration to the cell or batter the negative durative durative for a to the the negative durative for a to the the negative durative for a to the the negative durative for a to the	a half-sine shall be (ry shall be lirection in otal of 16 每个电池 持续时间
1.2	Sample statu 样品状态	s					
1.3	B5#-B8#: afte	一个循环完全充 r 25 cycles end 25 个循环完全	ling in fully char	ged states			
Sample		ore 测试前 After 测试后			Residual	Test	
No. 编号	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass loss 质量损失 (%)	OCV 剩余电压 (%)	result 测试 结果
B1#	111.892	4.25	111.892	4.24	0.000	99.76	0
B2#	112.000	4.23	112.000	4.23	0.000	100.00	0
B3#	112.460	4.24	112.460	4.23	0.000	99.76	0
B4#	112.006	4.23	112.006	4.23	0.000	100.00	0
B5#	111.875	4.23	111.875	4.23	0.000	100.00	0
B6#	111.666	4.25	111.666	4.24	0.000	99.76	0
B7#	111.891	4.24	111.891	4.24	0.000	100.00	0
B8#	111.771	4.24	111.771	4.24	0.000	100.00	0
Note: 备注	disassembly,	no rupture, no	fire.		O-No leakage, i 漏、无排气、无		无起火。

	Appei	naix 5 ₹ 5		
Items	38.3.1.5 External Short-circuit	C O		
项目	38.3.1.5 外部短路			
1.1	Test procedure 测试步骤			
	The cell or battery to be tested shall be homogeneous stabilized temperature of 57 time depends on the size and design of documented. If this assessment is not feasible cells and small batteries, and 12 hours for la 57±4°C shall be subjected to one short circ 0.1 ohm. This short circuit condition is continued for temperature has returned to 57±4°C, or in of the maximum temperature increase obsesshort circuit and cooling down phases shall 传试验电芯或电池的尺寸和设计,应该评估和记录中电芯或电池的尺寸和设计,应该评估和记录中电芯或电池的尺寸和设计,应该评估和记录中间,以下电影和大型电池至少12下 0.1 欧姆的短路状况。	*±4°C, measured on the extend the cell or battery and sole, the exposure time shall be large cells and large batteries. We will condition with a total extend the case of the large batterier or the large batterier or the case of the large batterier or the large b	ernal case. This period of should be assessed and at least 6 hours for small resistance of less that all or battery external cases, has decreased by has ains below that value. The ent temperature. I 量外表温度,这段时间取课光时间应小电芯和小电话 57±4℃下经受总外阻小	
1.2	降至最高温升的一半,测试期间的观察,仍低 Sample status 样品状态	于这个值。短路和降温阶段应	当至少到环境温度。	
1.3	B1#-B4#: at first cycle in fully charged states B1#-B4#:在第一个循环完全充电状态 B5#-B8#: after 25 cycles ending in fully char B5#-B8#:在第 25 个循环完全充电状态 Result 测试结果			
Sample	Max. External Temperature			
No.	样品表面最高温度	Test result	Note	
编号	(°C)	测试结果	备注	
B1#	58.2	0	1	
B2#	57.9	0	1	
B3#	57.8	0	1	
B4#	57.8	0	1	
B5#	57.6	0	1	
B6#	58.0	0	1	
B7#	58.3	0	1	
B8#	58.5	0	1	
Note: 备注	D-Disassembly, R-Rupture, F-Fire, O- no dis D- 解体; R- 破裂; F- 起火; 0-无解体、无	7772	=	

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	Appen 附表		
Items	38.3.4.6 Crush	. 0	
项目 1.1	38.3.4.6 挤压 Test procedure 测试步骤		
	A cell or component cell is to be crushed betwe speed of approximately 1.5cm/s at the first poin of the three options below is reached. (a) The applied force reaches 13kN±0.78 (b) The voltage of the cell drops by at lea (c) The cell is deformed by 50% or more Once the maximum pressure has been obtaine deformed by at least 50% of its original thicknes 电池芯或组成电池芯在两个平面间挤压。挤压在个选项之一达到为止: (a) 作用力达到 13kN±0.78kN; (b) 电池芯电压降至少达到 100mV; (c) 电池芯厚度和最初比较变形至少 50%。 —旦达到最大压力,电压降超过 100 mV 或者可以表现。	t of contact. The crushing is to kN; st 100 mV; or of its original thickness. d, the voltage drops by 100m\ss, the pressure shall be relea 第一个接触点以约 1.5cm/s 的	o be continued until the first V or more, or the cell is sed. 速度慢慢进行,直到下面三
1.2	Sample status 样品状态	时间之人的超过 5076,压力压	PX/用+17小。
1.3	C1#-C5#: at first cycle at 50% of the design r C1#-C5#:在第一个循环 50%的额定容量 C6#-C10#: after 25 cycles ending at 50% of t C6#-C10#:在第 25 个循环 50%的额定容量 Result		
Sample	测试结果 Max. External Temperature		
No.	样品表面最高温度	Test result	Note
编号	(°C)	测试结果	备注
C1#	23.5	0	1
C2#	23.6	0	1
C3#	24.0	0	1
C4#	24.4	0	1
C5#	24.5	0	7
C6#	23.6	0	I
C7#	24.1	0	1
C8#	24.2	0	1
C9#	23.9	0	1
C10#	24.0	0	1
Note: 备注	D-Disassembly, F-Fire, O-no disassembly, no D-解体; F-起火; O-无解体、无起火。	o fire.	

	Appendix 7 附表 7				
Items 项目	38.3.4.7 Overcharge 38.3.4.7 过度充电				
1.1	Test procedure 测试步骤				
	The manufacturer's recommended maximum charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V;制造商建议的充电电压不大于 18 伏时,实验的最小电压应是电池组最大充电电压的两倍或 22 伏两者中的较小者。 When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the battery or 22V;制造商建议的充电电压不大于 18 伏时,实验的最小电压应是电池组最大充电电压的两倍或 22 伏两者中的较小者。 When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times maximum charge voltage.制造商建议的充电电压大于 18 伏时,实验的最小电压应是最大充电电压的 1.2 倍。	us charge current i 流为 3.0A。	s 8.70V; s 6.0A.		
1.2	M 是最大允电电压的 1.2 倍。 Sample status 样品状态 B9#-B12#: at first cycle in fully charged states				
1.3	B9#-B12#:在第一个循环完全充电状态 B13#-B16#: after 25 cycles ending in fully charged sta B13#-B16#:在第 25 个循环完全充电状态 Result 测试结果	tes			
Sample	Voltage before test	Seed on self	Mata		
No.	测试前电压	est result	Note		
编号	(V)	则试结果	备注		
B9#	4.33	0	1		
B10#	4.33	0	1		
B11#	4.33	0	1		
B12#	4.33	0	/		
B13#	4.33	0	1		
B14#	4.33	0			
B15#	4.33	0	1		
B16#	4.33	0	1		
Note: 备注	D-Disassembly, F-Fire, O-no disassembly, no fire. D-解体; F-起火; 0-无解体、无起火。	·			

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Items 项目	38.3.4.8 Forced discharge 38.3.4.8 强制放电					
1.1	Test procedure 测试步骤					
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C, power supply at an initial current equal to the maximum discharge current specified by the manufacturer The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell, Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current(in ampere). 在 20±5℃的环境温度下,将单个电芯连接在 12V 的直流电源上进行强制放电,此直流电源提供每个电芯初始电流为制造厂指定的最大放电电流,放电时间为额定容量除以初始电流。					
1.2	Sample status 样品状态					
	C11#-C20#: at first cycle in fully discharged states C11#-C20#:在第一个循环完全放电状态 C21#-C30#: after 25 cycles ending in fully discharged states; C21#-C30#:在第 25 个循环完全放电状态					
1.3	Result 测试结果					
Sample	Voltage before test	Test result	Sample	Voltage before test	Test result	
No.	测试前电压	测试结果	No.	测试前电压	测试结果	
编号	(V)	初加油木	编号	(V)	100 M211/K	
C11#	3.421	0	C21#	3.388	0	
C12#	3.395	0	C22#	3.411	0	
C13#	3.388	0	C23#	3.389	0	
C14#	3.419	0	C24#	3.395	0	
C15#	3.411	0	C25#	3.400	0	
C16#	3.375	0	C26#	3.411	0	
C17#	3.389	0	C27#	3.423	0	
C18#	3.409	0	C28#	3.422	0	
C19#	3.418	0	C29#	3.417	0	
C20#	3.411	0	C30#	3.411	0	
Note: 备注	D-Disassembly, F-Fire, O-ID-解体: F-起火: 0-无约		no fire.			

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1. 本报告无检测单位检测专用章、骑缝章无效。

The test report is invalid without the special seal for testing and Paging seal of Guangzhou MCM Certification and Testing Co., Ltd.

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 Objections to the test report must be submitted to Guangzhou MCM Certification and Testing Co., Ltd. Within 15 days.
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The test report is valid for the tested samples only.

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-End the test report-