

Form B03

Scheduled Maintenance Work Order



Quantum Medical Solutions sdn bhd
transcending boundaries, transforming life

Format Ref: - QMS/TSD-022 Rev.01

Work Order No.	PWO365648	Schedule Month	June 2018
Work Order Date	01/06/2018	Completed Date	27/6/18
Clinic Name	Klinik Kesihatan Batu Anam	Clinic Code	JHR080
BE No.	JHNANR027	Distict	SEGAMAT
BE Category	ANALYZERS, LABORATORY, URIN	WO Assigned to	Hastiana
Ownership	<input type="checkbox"/> Existing Equipment	<input type="checkbox"/> Purchase	<input checked="" type="checkbox"/> New
BE Condition	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> BER Proposed	
Work Order Type	<input checked="" type="checkbox"/> Preventive Maintenance (PM)	<input type="checkbox"/> Third Party Calibration (TPC)	
	<input type="checkbox"/> Routine Inspection (RI)	<input type="checkbox"/> Statutory Certification (SC)	

Reschedule Date	
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3E Third Party Calibration / Statutory Certification Details

Company Name	-	Cal / Cert Date	-
Contact Number	-	Cal / Cert Expiry Date	-

Action Taken

☒ PM / RI job done as per checklist. Unit tested functioning good & ready to use.

Manufacturer : *Mison*

☐ Corrective Maintenance / ☐ Breakdown

Modal : *U500*

BE Sticker Availability : ☒ Yes / ☐ NA

Serial No : *2971100028A*

Remarks:

Schedule Maintenance Execution Details

SI No	QMS Engineer / Technician Name	Date	Start Time	End Time
1	<i>Hanis</i>	27/6/18	9.00	10.00

Customer Remarks

Engineer / Technician Signature Name Date MOHD HANIS BIN JAMHURI SENIOR BIOMEDICAL TECHNICIAN QUANTUM MEDICAL SOLUTION SDN BHD TECHNICAL SERVICE DEPARTMENT 012-3967845	Customer Signature Name Designation Date Seal AHMAD LUQMAN B. ABD HAKIM JTME U29 KK Batu Anam
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For Internal Use

First Verification **MOHD SHAFUDIN BIN SIMIN**
 Biomedical Engineering
 QMS Circle Incharge
 Quantum Medical Solutions
 H/P: 012-3967638

Final Verification
 QMS State Incharge



KEMENTERIAN KESIHATAN MALAYSIA

MEET Planned Preventive Maintenance Checklist
Analyzers, Laboratory, Urine, Semiautomated (Medium)
BE CODE : ME-010

CHECKLIST NO:CL-019-000 REV.000

PART 1 ASSET DETAILS

WORK ORDER NO ▶ PW0305048 BE NO ▶ JHP00 JHNANR027
MANUFACTURER ▶ MISSION MODEL ▶ U500
FREQUENCY ▶ 6 MONTHLY (/) 12 MONTHLY () PPM HOURS ▶ 1.00

PART 2 SPECIAL PRECAUTION

If there is evidence of body fluid contamination, submit the device for cleaning and decontamination before inspecting it.

Wear appropriate Personnel Protection Equipment (PPE) during work.

Wear grounded electrostatic wristband when handling PCB or electronic components.

Refer to the safety procedure for additional precautions and guidance as per manufacturer guidelines.

Make sure the test equipment used are duly calibrated.

PART 3 TEST APPARATUS

Tick (✓) where appropriate

NO	ASSET NO	DESCRIPTION	SERIAL NO	CALIBRATION DUE ON
		ELECTRICAL SAFETY ANALYZER	3226902	19/12/18

PART 4 QUALITATIVE TASKS

Tick (✓) where appropriate

	PASS	FAIL	NA		PASS	FAIL	NA
1 Chassis - verify physical integrity, cleanliness and condition	(✓)	()	()	9 Test Strip Tray - Verify Physical integrity	(✓)	()	()
2 Mount/ Fasteners - verify physical integrity	(✓)	()	()	10 Motor - Verify proper operation	(✓)	()	()
3 AC Plug / Power Card - verify Physical Integrity and Proper Insulation	(✓)	()	()	11 Date /Time Verify Proper Setting	(✓)	()	()
4 Strain Relief - verify physical integrity at both ends of line cord	(✓)	()	()	12 LED- Verify Proper Operation	(✓)	()	()
5 Fittings/ Connectors - check all fittings/connectors for Physical Integrity	(✓)	()	()				
6 Controls/Switches/Keypad - verify proper operation of controls	(✓)	()	()				
7 Indicators/Displays Verify Proper Operation	(✓)	()	()				
8 Printer - Verify Operation	(✓)	()	()				

PART 5 PREVENTIVE MAINTENANCE TASKS

Tick (✓) where appropriate

	DONE	NOT DONE **	NA		DONE	NOT DONE **	NA
1 Cleanliness-Clean Interior and Exterior of the Unit	(✓)	()	()	5 Carryout Calibration As needed	(✓)	()	()
2 Clean the Test Strip Tray	(✓)	()	()				
3 Lubricate Moving Parts	(✓)	()	()				
4 Clean Printer Assembly	(✓)	()	()				

* For all Parts, NA is defined as NOT APPLICABLE

** If you have ticked 'NOT DONE', then justify in Part 8

Notes: *** Choose Whichever Applicable



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CHECKLIST NO: CL-019-000 REV.000

WORK ORDER NO ▶

PW0345448

PART 6 QUANTITATIVE TASKS

Tick (✓) where appropriate

No	Description	Units / UOM	Set Values	Measured Values	Limit/Tolerance	PASS	FAIL	NA
	Calibration Report (please attach)					()	()	()
	QC Report (please attach)					()	()	()

PART 7 ELECTRICAL SAFETY TEST

ELECTRICAL SAFETY TEST, (attach report)

Tick (✓) where appropriate

Standard use :

☐ IEC 60601☐ IEC 61010☒ IEC 62353

Result :

☒ PASS☐ FAIL☐ NA

PART 8 NOTES

☐ CORRECTIVE MAINTENANCE REQUIRED☒ FUNCTIONING☐ NOT FUNCTIONING

WORK ORDER NO ▶

NEXT PPM DATE ▶ 01/5/2018

PPM has been performed in accordance to the checklist and the equipment is functioning to the intended purpose.

COMPLETED BY:

Harris

DATE :

27/6/18

Test Setup

Operator ID :
Calibration Tech : NADIA
Calibration Date : 10/9/2017
Firmware Version : 2.08.01
Serial Number : 3169062
Date & Time : 27/6/2018 & 12:10pm
JOB Name :

DUT Information

Equipment Number : ANALYZERS,LABORA
Serial Number : 2971100028A
Manufacturer : MISSION
Model : U 500
Location : KK BATU ANAM
Other :

Template Information

Template Name :
Pause after Power ON: NO
Power ON delay: 2
Test Speed: NORMAL
Halt on Test Failure: YES
Include Time: YES
Insulation Resistance \ 500V
Multi Enclosure Test : NO

Standard : IEC62353-Direct
Pause before Power O NO
Power OFF delay: 0
Test Mode: AUTO
Multi PE Test: NO
Multi Resstore: WORST/LAST
Reverse Polarity: YES
Classification: I

PLC Configuration-Applied part setup

AP Name AP Type AP Num

ESA615 Test Results

Test Name	Value	High Limits	Low Limits	Status
Protective Earth Resistance	0.256 Ohm	0.3	-	P
Insulation Resistance				P
Mains to Protective Earth	79.9 MOhm	-	-	P
Mains Voltage				P
Live to Neutral	251.9 V	-	-	P
Neutral to Earth	7.3 V	-	-	P
Live to Earth	258.3 V	-	-	P
Equipment Current	0.4 A	-	-	P
Direct Equipment Leakage				P
Open Earth	39.8 uA	500	-	P
Open Earth- Reversed Mains	57.3 uA	500	-	P

