



Rexis case id : \_\_\_\_\_

Report No.	Instrument Model	Instrument Serial No.	Visit Date	Call Type
C 50951	cobas c111	13585	28/7/2020	<input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Application <input type="checkbox"/> Other (pls specify):

Charge Type:				
<input checked="" type="checkbox"/> Service Contract	<input type="checkbox"/> Warranty	<input type="checkbox"/> Ad-hoc	<input type="checkbox"/> Placement / Rental	<input type="checkbox"/> Other (pls specify):

Lab / Inst./Hosp. Name: FOSTR HEALTHCARE, Bangalore	Contact / User Name: Mr. Muruganandana
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Call Received Date:	Call Attended Dates: 28/7/2020	Travel Hours: 1/2 + 1/2	Work Hours: 2 + 1	<input checked="" type="checkbox"/> In Station
Time:	Time: 12:00 PM			<input type="checkbox"/> Out-Station

Problem Description :  
**PREVENTIVE MAINTENANCE**

Action Summary :

- \* PM done as per the procedure.
- \* Replaced pmkit consumables.
- \* cleaned and lubricated railings
- \* cleaned sensors.
- \* Performed instrument checks.
- \* Performed samples.

Spare / Parts Reagent Consumables Used (as Applicable) :					
GMMI No.	Item	Qty.	Batch No.	Total Value (Est.)	Notes :

Service Engineer / Application Specialist Remarks :  
**Analyser working fine.**

Customer Remarks :	Problem Resolved Yes / No
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Service Feedback :  1. Poor  2. Fair  3. Good  4. V.Good  5. Excellent

Service Engineer / Application Specialist Name : <b>A. M. J. P.</b>	3 SP Address Seal	Customer's / User's Name : <b>Muruganandana R</b>
Service Engineer / Application Specialist Signature : <i>[Signature]</i>		Customer's / User's Signature : <i>[Signature]</i>

For Internal / Office Use Only (as Applicable)

SA Code :	Function:	Cause :	Remedy :	Cause :	Code :	Fix :
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Please Specify with Code (for any 'XD' reasons):



c111 V4.2.2.1730 13585  
admin 28.07.2020 15:14

Check Pipetting Accuracy:

Place sample '@CHK' on the instrument.  
Created 16 CHECK test orders in sample order '@CHK'.  
Cuvette segment is moved to handling position 1.  
Insert first cuvette segment, then click OK.  
Cuvette segment is moved to handling position 2.  
Insert second cuvette segment and close the main cover, then click OK.  
System changes to operating and runs CHECK tests. Wait for completion.  
# of results = 16, Mean = 1.1074Abs  
SD = 0.00974347, CV = 0.879852%  
Diagnostic action completed.

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admin 28.07.2020 15:15

Order Details:

Sample ID @CHK  
Order ID @CHK  
Order state All accepted  
Sample state Done

S	Test	Flag	Result
	CHECK		1.0766Abs
	CHECK		1.1008Abs
	CHECK		1.1071Abs
	CHECK		1.1034Abs
	CHECK		1.1030Abs
	CHECK		1.1150Abs
	CHECK		1.1115Abs
	CHECK		1.1142Abs
	CHECK		1.1026Abs
	CHECK		1.1146Abs
	CHECK		1.1133Abs
	CHECK		1.1135Abs
	CHECK		1.1028Abs
	CHECK		1.1137Abs
	CHECK		1.1146Abs
	CHECK		1.1116Abs

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admin		28.07.2020 14:57

System Status:

Analyzer: OK  
Fluid System: Ready  
Temperature: Heating OK, Cooling OK  
Fan: OK  
Degasser Fluid Sensor: OK  
Bottles: OK  
Maintenance: Overdue  
Printer: OK  
Number of DC Applications: 0  
Version: 4.2.2.1730  
DM: 4.2.2.1721  
IC: 4.0.4.1798  
DC Slave: 1.00.00.0712  
ISE: unknown  
Multislave: 1.02.07.0811  
Photometer: 3.02.00.1042  
Language: 4.2.2.1726  
OS: 4.2.1.1702

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13585

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Initialize Degasser Fluid Sensor:

Insert the tubing adapter, then press <OK>  
to prime fluid system.  
Priming water system.

Waiting for completion.

Air: 55 Fluid: 149 Level: 3 State: 0  
Maintenance action complete.





## CALIBRATION CERTIFICATE

HOSPITAL NAME	FOSTR HEALTHCARE
ADDRESS	KADUBEESANAHALLI, MARATHAHALLI KARNATAKA.
ANALYSER	COBAS C111
SERIAL NO	13585
INSTALLATION PLACE	BIOCHEMISTRY DEPT.
DATE	JULY 28 , 2020

This is to certify that the above mentioned analyzer was calibrated by the following procedure as per manufacturer's recommendations

1. Analyser Rotor Init position check
2. Check Abs sensitivity 100%
3. Check Init Position Accuracy
4. Air/water calibration
5. Pipette Accuracy check

All the checks and calibration were done and system is being used under recommended conditions.  
Next calibration is due on July 27, 2021.

For Roche Diagnostics India Pvt. Ltd

Manikandan K  
Technical Service Specialist  
Bangalore.



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admin

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13585

28.07.2020 14:52

Abs. Air/Water Calibration:

Abs. Air/Water Calibration.

Cuvette segment is moved to handling position 1.

Insert an empty cuvette segment, then press <OK>.

Cuvette segment is moved to handling position 2.

Insert an empty cuvette segment, close the cover, then press <OK>.

Starting the calibration.

Waiting for completion.

Maintenance action complete.

Wavelength	H2O	H2O cuvette
340	-0.0102	0.0699
378	-0.0073	0.0686
409	-0.0052	0.0684
449	-0.0022	0.0704
480	-0.0002	0.0718
512	0.0012	0.0731
520	0.0015	0.0731
552	0.0022	0.0739
583	0.0034	0.0748
629	0.0042	0.0756
652	0.0047	0.076
659	0.0051	0.0762

Outlier statistics:

Air : 0  
Water : 0  
Diff : 0  
Total : 0

Press <OK> to use these values.  
Then press <Cuvettes> and exchange the two segments.



28-11-2020

c111 V4.2.2.1730 13585  
admin 25.11.2020 12:25

QC Status:

S Test	ID	Flag	Result
ALTL	PCCC2		113.30U/L
ASTL	PCCC2		143.20U/L
BILD2	PCCC2		2.3mg/dL
BILT3	PCCC2		3.5mg/dL
GGTS2	PCCC2		156.4U/L
GLU2	PCCC2		228.03mg/dL
TRIGL	PCCC2		228.30mg/dL
@ ALB2	PCCC2		4.71g/dL
@ A1W3D	PCA1N		5.46%

c111 V4.2.2.1730 13585  
admin 29.11.2020 11:38

QC Status:

S Test	ID	Flag	Result
@ ALTL	PCCC2		111.30U/L
@ ASTL	PCCC2		140.80U/L
@ BILD2	PCCC2		2.3mg/dL
@ BILT3	PCCC2		3.5mg/dL
@ GGTS2	PCCC2		157.1U/L
@ GLU2	PCCC2		221.20mg/dL
@ TRIGL	PCCC2		227.46mg/dL
@ UAZ	PCCC2		9.8mg/dL
ALB2	PCCC2		4.63g/dL
CREJ2	PCCC2		3.7mg/dL

c111 V4.2.2.1730 13585  
admin 29.11.2020 12:52

QC Status:

S Test	ID	Flag	Result
ALTL	PCCC2		110.6U/L
CA2	PCCC2		13.20mg/dL
CRPLX	PCCC2		57.66mg/L
GLU2	PCCC2		225.78mg/dL
TRIGL	PCCC2		227.72mg/dL
ASTL	PCCC2		145.6U/L
BILD2	PCCC2		2.3mg/dL
BILT3	PCCC2		3.5mg/dL
GGTS2	PCCC2		154.0U/L
UA2	PCCC2		10.2mg/dL
@ ALB2	PCCC2		4.68g/dL
@ CREJ2	PCCC2		3.7mg/dL
@ A1W3D	PCA1N		5.51%

c111 V4.2.2.1730 13585  
admin 24.11.2020 10:14

QC Status:

S Test	ID	Flag	Result
ALTL	PCCC2		112.5U/L
ASTL	PCCC2		142.3U/L
BILD2	PCCC2		2.3mg/dL
BILT3	PCCC2		3.5mg/dL
CHO2I	PCCC2		159.85mg/dL
CRPLX	PCCC2		58.27mg/L
GGTS2	PCCC2		157.8U/L
GLU2	PCCC2		225.83mg/dL
TRIGL	PCCC2		226.50mg/dL
UA2	PCCC2		10.1mg/dL
ALB2	PCCC2		4.62g/dL
CREJ2	PCCC2		3.8mg/dL

c111 V4.2.2.1730 13585  
admin 22.11.2020 12:30

QC Status:

S Test	ID	Flag	Result
@ GLU2	PCCC2		226.58mg/dL
A1W3D	PCA1N		5.43%

c111 V4.2.2.1730 13585  
admin 20.11.2020 12:50

QC Status:

S Test	ID	Flag	Result
@ ALTL	PCCC2		112.5U/L
@ ASTL	PCCC2		142.0U/L
@ BILD2	PCCC2		2.4mg/dL
@ BILT3	PCCC2		3.6mg/dL
@ GGTS2	PCCC2		156.7U/L
@ GLU2	PCCC2		224.38mg/dL
@ TRIGL	PCCC2		224.45mg/dL
@ ALB2	PCCC2		4.63g/dL
@ CREJ2	PCCC2		3.9mg/dL

c111 V4.2.2.1730 1358  
admin 21.11.2020 12:3

QC Status:

S	Test	ID	Flag	Result
@	ALT	PCCC2		112.6U/L
@	ASTL	PCCC2		141.7U/L
@	BILD2	PCCC2		2.3mg/dL
@	BILT3	PCCC2		3.7mg/dL
@	CRPLX	PCCC2		58.82mg/L
@	GGTS2	PCCC2		159.9U/L
@	GLU2	PCCC2		225.98mg/dL
@	TRIGL	PCCC2		227.55mg/dL
@	UA2	PCCC2		10.1mg/dL
@	ALB2	PCCC2		4.53g/dL
@	CREJ2	PCCC2		3.6mg/dL
@	A1W3D	PCA1N		5.38%
@	CHO2I	PCCC2		164.34mg/dL

c111 V4.2.2.1730 1358  
admin 16.11.2020 12:0

QC Status:

S	Test	ID	Flag	Result
@	ALT	PCCC2		115.2U/L
@	ASTL	PCCC2		143.6U/L
@	BILT3	PCCC2		3.8mg/dL
@	CA2	PCCC2		13.20mg/dL
@	CRPLX	PCCC2		58.58mg/L
@	GGTS2	PCCC2		159.6U/L
@	GLU2	PCCC2		227.10mg/dL
@	HDLC4	PCCC2		90.31mg/dL
@	TRIGL	PCCC2		230.09mg/dL
@	ALB2	PCCC2		4.60g/dL
@	CREJ2	PCCC2		3.7mg/dL
@	A1W3D	PCA1N		5.32%
@	BILD2	PCCC2		2.4mg/dL
@	CHO2I	PCCC2		163.67mg/dL
@	UA2	PCCC2		10.4mg/dL
@	UREL	PCCC2		113.72mg/dL

c111 V4.2.2.1730 13585  
admin 19.11.2020 13:04

QC Status:

S	Test	ID	Flag	Result
	ALT	PCCC2		113.7U/L
	ASTL	PCCC2		141.5U/L
	BILD2	PCCC2		2.4mg/dL
	BILT3	PCCC2		3.5mg/dL
	CRPLX	PCCC2		59.14mg/L
	GGTS2	PCCC2		157.2U/L
	GLU2	PCCC2		224.37mg/dL
	HDLC4	PCCC2		67.15mg/dL
	TRIGL	PCCC2		226.71mg/dL
	UA2	PCCC2		10.2mg/dL
	UREL	PCCC2		110.20mg/dL
	ALB2	PCCC2		4.66g/dL
	CREJ2	PCCC2		3.7mg/dL

c111 V4.2.2.1730 13585  
admin 15.11.2020 10:53

QC Status:

S	Test	ID	Flag	Result
@	GLU2	PCCC2		227.82mg/dL
@	HDLC4	PCCC2		90.87mg/dL
@	TRIGL	PCCC2		234.86mg/dL
@	CREJ2	PCCC2		3.8mg/dL

c111 V4.2.2.1730 13585  
admin 17.11.2020 11:37

QC Status:

S	Test	ID	Flag	Result
@	CHO2I	PCCC2		159.30mg/dL
@	GLU2	PCCC2		227.12mg/dL
@	HDLC4	PCCC2		90.17mg/dL
@	TRIGL	PCCC2		231.16mg/dL
@	UREL	PCCC2		110.83mg/dL
@	CREJ2	PCCC2		3.7mg/dL

c111 V4.2.2.1730 13585  
admin 18.11.2020 14:12

QC Status:

S	Test	ID	Flag	Result
@	ALT	PCCC2		112.7U/L
@	ASTL	PCCC2		142.2U/L
@	BILD2	PCCC2		2.3mg/dL
@	BILT3	PCCC2		3.6mg/dL
@	CRPLX	PCCC2		57.11mg/L
@	GGTS2	PCCC2		162.3U/L
@	GLU2	PCCC2		225.61mg/dL
@	TRIGL	PCCC2		227.75mg/dL
@	UA2	PCCC2		10.2mg/dL
@	UREL	PCCC2		110.70mg/dL
	ALB2	PCCC2		4.72g/dL
	CREJ2	PCCC2		3.8mg/dL
	A1W3D	PCA1N		5.38%



c111 V4.2.2.1730 13585  
 admin 10.12.2020 13:56

QC Status:

S Test ID	Flag	Result
ALTL PCCC1		50.0U/L
ASTL PCCC1		46.2U/L
BILD2 PCCC1		0.9mg/dL
BILT3 PCCC1		1.0mg/dL
CHO2I PCCC1		87.58mg/dL
CRPLX PCCC1		10.86mg/L
GLU2 PCCC1		101.90mg/dL
TRIGL PCCC1		124.07mg/dL
UREL PCCC1		35.34mg/dL
@ ALB2 PCCC1		2.87g/dL
@ CREJ2 PCCC1		1.0mg/dL
@ A1W3D PCA1N		5.51%

c111 V4.2.2.1730 13585  
 admin 01.11.2020 12:47

QC Status:

S Test ID	Flag	Result
@ CHO2I PCCC1		86.70mg/dL
@ GLU2 PCCC1		102.31mg/dL
@ HDLC4 PCCC1		26.83mg/dL
@ TRIGL PCCC1		130.49mg/dL

c111 V4.2.2.1730 135  
 admin 13.11.2020 13:

QC Status:

S Test ID	Flag	Result
@ ALTL PCCC2		119.8U/L
@ ASTL PCCC2		141.9U/L
@ BILD2 PCCC2		2.3mg/dL
@ BILT3 PCCC2		3.8mg/dL
@ CHO2I PCCC2		157.22mg/dL
@ CRPLX PCCC2		58.91mg/L
@ GGTS2 PCCC2		154.2U/L
@ GLU2 PCCC2		224.73mg/dL
@ HDLC4 PCCC2		90.01mg/dL
@ TRIGL PCCC2		224.65mg/dL
@ CREJ2 PCCC2		3.8mg/dL
@ A1W3D PCA1N		5.39%
@ ALB2 PCCC2		4.81g/dL

c111 V4.2.2.1730 13585  
 admin 11.11.2020 18:55

QC Status:

S Test ID	Flag	Result
@ ALTL PCCC2		100.7U/L
@ CRPLX PCCC2		57.23mg/L
@ GLU2 PCCC2		220.66mg/dL
@ HDLC4 PCCC2		86.93mg/dL
@ TRIGL PCCC2		226.74mg/dL

c111 V4.2.2.1730 135  
admin 02.12.2020 9:

QC Status:

S Test	ID	Flag	Result
@	ALTL	PCCC2	109.7U/L
@	ASTL	PCCC2	141.8U/L
@	BILD2	PCCC2	2.2mg/dL
@	BILT3	PCCC2	3.4mg/dL
@	GGTS2	PCCC2	157.1U/L
@	GLU2	PCCC2	224.48mg/dL
@	TRIGL	PCCC2	227.83mg/dL
@	UA2	PCCC2	10.0mg/dL
@	ALB2	PCCC2	4.57g/dL
@	CREJ2	PCCC2	3.8mg/dL

c111 V4.2.2.1730 13585  
admin 03.12.2020 10:24

QC Status:

S Test	ID	Flag	Result
@	ALTL	PCCC2	108.9U/L
@	ASTL	PCCC2	140.3U/L
@	BILD2	PCCC2	2.2mg/dL
@	BILT3	PCCC2	3.5mg/dL
@	CRPLX	PCCC2	58.27mg/L
@	GGTS2	PCCC2	152.7U/L
@	GLU2	PCCC2	223.15mg/dL
@	TRIGL	PCCC2	228.70mg/dL
@	UA2	PCCC2	10.1mg/dL
@	UREL	PCCC2	118.55mg/dL
@	ALB2	PCCC2	4.56g/dL
@	CREJ2	PCCC2	3.9mg/dL

c111 V4.2.2.1730 13585  
admin 04.12.2020 15:43

QC Status:

S Test	ID	Flag	Result
@	ALTL	PCCC2	109.4U/L
@	CRPLX	PCCC2	56.82mg/L
@	GLU2	PCCC2	221.70mg/dL
@	CREJ2	PCCC2	3.9mg/dL

c111 V4.2.2.1730 13585  
admin 06.12.2020 9:43

QC Status:

S Test	ID	Flag	Result
@	CRPLX	PCCC2	59.45mg/L
@	GLU2	PCCC2	222.78mg/dL
@	TRIGL	PCCC2	228.44mg/dL
@	A1W3D	PCA1N	5.49%

c111 V4.2.2.1730 13585  
admin 07.12.2020 18:42

QC Status:

S Test	ID	Flag	Result
	ALTL	PCCC2	108.6U/L
	ASTL	PCCC2	142.8U/L
	BILD2	PCCC2	2.3mg/dL
	BILT3	PCCC2	3.4mg/dL
	GGTS2	PCCC2	156.6U/L
	GLU2	PCCC2	224.04mg/dL
	TRIGL	PCCC2	232.29mg/dL
	UA2	PCCC2	10.1mg/dL
	UREL	PCCC2	111.37mg/dL
	ALB2	PCCC2	4.53g/dL
	CREJ2	PCCC2	3.9mg/dL
	CHO2I	PCCC2	183.00mg/dL
	A1W3D	PCA1N	5.51%

c111 V4.2.2.1730 13585  
admin 08.12.2020 14:01

QC Status:

S Test	ID	Flag	Result
	ALTL	PCCC1	50.8U/L
	ASTL	PCCC1	46.9U/L
	BILD2	PCCC1	1.0mg/dL
	BILT3	PCCC1	1.1mg/dL
	CHO2I	PCCC1	88.28mg/dL
	CRPLX	PCCC1	10.95mg/L
	GGTS2	PCCC1	41.6U/L
	GLU2	PCCC1	102.35mg/dL
	HDLC4	PCCC1	21.57mg/dL
	TRIGL	PCCC1	122.22mg/dL
	UREL	PCCC1	36.31mg/dL
	ALB2	PCCC1	2.88g/dL
@	ALB2	PCCC1	1.0mg/dL
@	CREJ2	PCCC1	5.41%
@	A1W3D	PCA1N	