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## Calibration Certificate.

This is to certify that installed at Kamal Diagnostics LLP, Pune. APK 300 Instrument ID 6640000049368 Serial number 908020059 has been duly calibrated on March 02, 2023 and the same was verified with the following tests.

### System Tests results:

Details	Remark
● Temperature	Passed
● Stray light	Passed
● Noise	Passed
● Stability	Passed
● Tip pump	Passed
● Level detection	Passed
● Washer hydraulics	Passed
● Washer	Passed
● Clot detector	Passed

Verified the Calibrations and alignment visually. Performed Tests , all are passed. Calibration of the instrument was carried out as per the recommendation. Next Calibration will be performed on March 01, 2024.

Installation Date: 12/ 03/ 2022	Software Revision #: 2.6.1s
Install Technician Name: Ajinkya kubade	Signature:

### Siemens Healthcare Private Limited



**Jagannath Choudhary**  
Regional Customer Care Manager – West & West Central

**Siemens Healthcare Private Limited**

Unit No.9A, 9<sup>th</sup> Floor, North Tower,  
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Registered office: Unit No. 9A, 9th Floor, North Tower, Godrej One, Pirojshanagar, Eastern Express Highway, Vikhroli (E), Mumbai - 400 079; Corporate Identity number: U74999MH2015PTC264859  
Sales Offices: Ahmedabad, Bengaluru, Bhopal, Chandigarh, Chennai, Coimbatore, Gurgaon, Hyderabad, Jaipur, Kochi, Kolkata, Lucknow, Mumbai, Nagpur, Patna, Pune.

# Temperature Test

02-03-2023 19:29

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

## Front Arm

Arm room to 30°C: 0 min <= 1.5 min - Passed  
Arm 30°C to 40°C: 0 min <= 3.5 min - Passed  
Stability: 0 min <= 6 min - Passed  
Final temperature: 40°C Tolerance0.3°C - Passed  
Final ripple: 0.06°C <= 0.35 °C - Passed

## Reaction Trays

Reaction room to 28°C: 0 min <= 10 min - Passed  
Reaction 28°C to 39°C: 0 min <= 30 min - Passed  
Stability: 0 min <= 45 min - Passed  
Final temperature: 39.1°C Tolerance0.3°C - Passed  
Final ripple: 0.06°C <= 0.35 °C - Passed

## Reagent Tray

Reagent T°C: 7°C >= 6.5 °C - Passed  
Reagent T°C: 7°C <= Max(8.5;T - 18) - Passed  
On temperature time: 0 min <= 20 min - Passed  
Room temperature: 24°C

Time (sec.)	Front Arm	Back Arm	Reaction Trays	Reagent Tray
0.0	39.938	-	39.000	7.500
1.1	39.938	-	39.062	7.500
2.3	39.938	-	39.000	7.400
3.4	40.000	-	39.062	7.400
4.5	40.000	-	39.062	7.400
5.7	40.062	-	39.062	7.400
6.8	40.062	-	39.062	7.400
7.9	40.062	-	39.062	7.400
9.0	40.000	-	39.062	7.400
10.1	40.000	-	39.000	7.400
11.3	40.062	-	39.000	7.400
12.4	40.062	-	39.062	7.400
13.5	40.062	-	39.062	7.400
14.7	40.062	-	39.062	7.400
15.8	40.062	-	39.062	7.400
16.9	40.125	-	39.062	7.300
18.1	40.062	-	39.062	7.300
19.2	40.062	-	39.062	7.300
20.3	40.062	-	39.000	7.300
21.4	40.000	-	39.062	7.200
22.6	40.062	-	39.062	7.200
23.7	40.062	-	39.062	7.200
24.8	40.000	-	39.062	7.200
26.0	40.062	-	39.000	7.200
27.1	40.062	-	39.062	7.200
28.2	40.062	-	39.000	7.200
29.3	40.000	-	39.000	7.200
30.4	40.000	-	39.062	7.200
31.6	40.062	-	39.000	7.200

32.7	40.062	-	39.062	7.200
33.8	40.000	-	39.000	7.200
35.0	40.000	-	39.000	7.100
36.1	40.000	-	39.062	7.200
37.2	40.000	-	39.062	7.100
38.3	40.000	-	39.062	7.100
39.5	39.938	-	39.062	7.100
40.6	39.938	-	39.062	7.100
41.7	39.938	-	39.062	7.100
42.9	40.000	-	39.062	7.100
44.0	40.000	-	39.062	7.100
45.1	39.938	-	39.062	7.100
46.2	40.000	-	39.000	7.100
47.3	39.938	-	39.000	7.100
48.5	40.000	-	39.000	7.100
49.6	40.000	-	39.062	7.100
50.7	40.000	-	39.062	7.100
51.8	40.000	-	39.062	7.100
53.0	40.062	-	39.062	7.100
54.1	40.062	-	39.062	7.100
55.2	40.000	-	39.000	7.100
56.3	40.062	-	39.062	7.100
57.5	40.062	-	39.062	7.200
58.6	40.062	-	39.062	7.200
59.7	40.062	-	39.062	7.300
60.8	40.062	-	39.062	7.400
61.9	40.000	-	39.062	7.500
63.1	40.062	-	39.000	7.600
64.2	40.062	-	39.000	7.700
65.4	40.062	-	39.062	7.800
66.5	40.062	-	39.000	7.800
67.6	40.000	-	39.000	7.900
68.7	40.062	-	39.062	7.900
69.8	40.062	-	39.000	8.000
71.0	40.000	-	39.062	8.100
72.1	40.062	-	39.000	8.100
73.2	40.000	-	39.062	8.100
74.3	40.000	-	39.062	8.100
75.4	40.000	-	39.062	8.100
76.6	40.062	-	39.000	8.100
77.7	40.062	-	39.062	8.100
78.8	40.062	-	39.062	8.100
80.0	40.000	-	39.062	8.000
81.1	40.000	-	39.062	8.000
82.2	40.000	-	39.062	8.000
83.4	40.000	-	39.000	7.900
84.5	40.000	-	39.062	7.900
85.7	40.000	-	39.062	7.900
86.8	40.000	-	39.062	7.900
87.9	40.000	-	39.062	7.900
89.1	40.000	-	39.062	7.900
90.2	40.000	-	39.062	7.900
91.4	40.000	-	39.062	7.900
92.5	40.000	-	39.062	7.800
93.6	40.000	-	39.062	7.800
94.7	40.000	-	39.062	7.800

95.9	40.000	-	39.062	7.800
97.0	40.062	-	39.062	7.800
98.1	40.062	-	39.062	7.800
99.2	40.062	-	39.000	7.700
100.3	40.062	-	39.062	7.700
101.4	40.062	-	39.000	7.700
102.6	40.062	-	39.000	7.700
103.7	40.000	-	39.062	7.600
104.8	40.062	-	39.062	7.600
105.9	40.062	-	39.062	7.600
107.1	40.062	-	39.000	7.600
108.2	40.062	-	39.062	7.600
109.3	40.062	-	39.062	7.600
110.4	40.062	-	39.000	7.600
111.6	40.062	-	39.000	7.600
112.7	40.000	-	39.000	7.600
113.8	40.000	-	39.062	7.500
114.9	40.062	-	39.000	7.500
116.1	40.062	-	39.062	7.500
117.2	40.000	-	39.000	7.500
118.3	40.000	-	39.062	7.400
119.5	40.062	-	39.000	7.400
120.6	40.062	-	39.000	7.400
121.7	40.062	-	39.062	7.400
122.9	40.000	-	39.000	7.400
124.0	40.000	-	39.000	7.400
125.1	40.062	-	39.000	7.400
126.3	40.062	-	39.062	7.400
127.4	40.000	-	39.000	7.400
128.5	40.000	-	39.000	7.400
129.7	40.062	-	39.000	7.300
130.8	40.062	-	39.000	7.300
131.9	40.000	-	39.062	7.300
133.1	40.062	-	39.000	7.300
134.2	40.062	-	39.000	7.300
135.3	40.062	-	39.000	7.200
136.5	40.000	-	39.000	7.300
137.6	40.000	-	39.000	7.200
138.7	40.000	-	39.000	7.200
139.8	40.000	-	39.000	7.200
140.9	40.062	-	39.000	7.200
142.1	40.000	-	39.000	7.200
143.2	40.062	-	39.000	7.200
144.3	40.000	-	39.000	7.200
145.4	40.062	-	39.000	7.200
146.6	40.062	-	39.000	7.200
147.7	40.062	-	39.000	7.200
148.8	40.062	-	39.000	7.200
149.9	40.062	-	39.000	7.200
151.1	40.062	-	39.000	7.200
152.2	40.000	-	39.000	7.100
153.3	40.000	-	39.000	7.200
154.4	40.062	-	39.000	7.100
155.6	40.000	-	39.000	7.100
156.7	40.062	-	39.000	7.100
157.8	40.000	-	39.000	7.100

158.9	40.062	-	38.938	7.100
160.1	40.000	-	39.000	7.100
161.2	40.062	-	39.000	7.100
162.3	40.062	-	39.000	7.100
163.5	40.062	-	39.000	7.100
164.6	40.062	-	39.000	7.100
165.7	40.000	-	39.000	7.000
166.8	40.062	-	39.000	7.000
167.9	40.000	-	39.000	7.100
169.1	40.000	-	39.000	7.100
170.2	40.062	-	39.000	7.100
171.3	40.062	-	39.000	7.200
172.4	40.000	-	39.000	7.300
173.6	40.062	-	39.000	7.400
174.7	40.062	-	39.000	7.400
175.8	40.000	-	39.000	7.600
177.0	40.062	-	39.000	7.600
178.1	40.062	-	39.000	7.700
179.2	40.062	-	39.000	7.800
180.4	40.000	-	39.000	7.900
181.5	40.062	-	39.000	7.900
182.6	40.062	-	39.000	8.000
183.8	40.062	-	39.000	8.100
184.9	40.000	-	39.000	8.100
186.0	40.062	-	39.000	8.100
187.2	40.000	-	39.062	8.100
188.3	40.000	-	39.000	8.100
189.4	40.062	-	39.000	8.100
190.5	40.062	-	39.000	8.100
191.6	40.062	-	39.000	8.100
192.8	40.000	-	39.000	8.000
193.9	40.062	-	39.000	8.000
195.0	40.000	-	39.000	8.000
196.1	40.062	-	39.000	7.900
197.3	40.000	-	39.000	7.900
198.4	40.062	-	39.000	7.900
199.5	40.000	-	39.000	7.900
200.6	40.062	-	39.000	7.900
201.8	40.062	-	39.000	7.900
202.9	40.062	-	39.000	7.800
204.0	40.062	-	39.000	7.800
205.2	40.062	-	39.000	7.800
206.3	40.062	-	39.000	7.800
207.4	40.062	-	39.000	7.800
208.5	40.000	-	39.000	7.800
209.7	40.062	-	39.000	7.800
210.8	40.062	-	39.062	7.700
211.9	40.000	-	39.062	7.700
213.0	40.062	-	39.000	7.700
214.1	40.062	-	39.062	7.700
215.3	40.062	-	39.000	7.600
216.4	40.062	-	39.000	7.600
217.5	40.062	-	39.062	7.600
218.7	40.062	-	39.000	7.600
219.8	40.000	-	39.062	7.600
220.9	40.062	-	39.000	7.600

222.1	40.062	-	39.000	7.600
223.2	40.062	-	39.062	7.600
224.3	40.000	-	39.000	7.600
225.5	40.062	-	39.062	7.500
226.6	40.062	-	39.062	7.500
227.7	40.062	-	39.062	7.500
228.8	40.062	-	39.062	7.400
230.0	40.062	-	39.000	7.400
231.1	40.062	-	39.062	7.400
232.2	40.062	-	39.000	7.400
233.3	40.000	-	39.000	7.400
234.5	40.062	-	39.062	7.400
235.6	40.062	-	39.000	7.400
236.7	40.062	-	39.062	7.400
237.8	40.000	-	39.062	7.400
239.0	40.062	-	39.062	7.400
240.1	40.062	-	39.062	7.400
241.2	40.062	-	39.062	7.400
242.3	40.000	-	39.062	7.300
243.5	40.062	-	39.000	7.300
244.6	40.062	-	39.062	7.300
245.7	40.000	-	39.062	7.300
246.9	40.062	-	39.062	7.200
248.0	40.000	-	39.000	7.200
249.1	40.062	-	39.062	7.200
250.2	40.062	-	39.062	7.200
251.4	40.000	-	39.062	7.200
252.5	40.062	-	39.062	7.200
253.6	40.062	-	39.062	7.200
254.8	40.062	-	39.000	7.200
255.9	40.000	-	39.062	7.200
257.0	40.062	-	39.062	7.200
258.1	40.000	-	39.062	7.200
259.3	40.062	-	39.062	7.200
260.4	40.000	-	39.062	7.100
261.5	40.062	-	39.000	7.100
262.6	40.062	-	39.062	7.100
263.7	40.062	-	39.062	7.100
264.9	40.062	-	39.000	7.100
266.0	40.000	-	39.062	7.100
267.1	40.000	-	39.062	7.100
268.3	40.062	-	39.062	7.100
269.4	40.062	-	39.062	7.100
270.5	40.062	-	39.062	7.100
271.6	40.000	-	39.062	7.100
272.8	40.062	-	39.062	7.100
273.9	40.062	-	39.062	7.000
275.0	40.062	-	39.000	7.000
276.1	40.062	-	39.062	7.100
277.3	40.062	-	39.062	7.100
278.4	40.062	-	39.062	7.100
279.5	40.062	-	39.062	7.200
280.7	40.062	-	39.062	7.200
281.8	40.062	-	39.062	7.400
282.9	40.062	-	39.062	7.400
284.1	40.000	-	39.000	7.500

285.2	40.062	-	39.000	7.600
286.3	40.062	-	39.062	7.700
287.4	40.062	-	39.062	7.800
288.6	40.062	-	39.000	7.800
289.7	40.062	-	39.062	7.900
290.8	40.062	-	39.062	8.000
292.0	40.000	-	39.062	8.100
293.1	40.062	-	39.000	8.100
294.2	40.062	-	39.062	8.100
295.4	40.062	-	39.062	8.100
296.5	40.062	-	39.000	8.100
297.6	40.062	-	39.062	8.100
298.8	40.062	-	39.062	8.100
299.9	40.062	-	39.062	8.100
301.0	40.062	-	39.062	8.000
302.1	40.062	-	39.000	8.000
303.3	40.000	-	39.062	7.900
304.4	40.062	-	39.062	7.900
305.5	40.062	-	39.000	7.900
306.7	40.062	-	39.062	7.900
307.8	40.062	-	39.062	7.900
308.9	40.062	-	39.000	7.900
310.0	40.062	-	39.062	7.800
311.2	40.062	-	39.062	7.800
312.3	40.062	-	39.062	7.800
313.4	40.062	-	39.000	7.800
314.6	40.062	-	39.062	7.800
315.7	40.062	-	39.000	7.800
316.8	40.062	-	39.000	7.800
318.0	40.062	-	39.062	7.700
319.1	40.062	-	39.062	7.700
320.2	40.062	-	39.000	7.700
321.3	40.062	-	39.000	7.600
322.5	40.062	-	39.062	7.600
323.6	40.062	-	39.000	7.600
324.7	40.000	-	39.062	7.600
325.8	40.062	-	39.062	7.600
326.9	40.062	-	39.000	7.600
328.1	40.062	-	39.062	7.600
329.2	40.062	-	39.062	7.600
330.3	40.062	-	39.000	7.600
331.4	40.062	-	39.062	7.600
332.6	40.062	-	39.062	7.500
333.7	40.062	-	39.062	7.500
334.8	40.062	-	39.062	7.500
335.9	40.062	-	39.062	7.500
337.1	40.062	-	39.000	7.400
338.2	40.062	-	39.000	7.400
339.3	40.000	-	39.062	7.400
340.5	40.062	-	39.062	7.400
341.6	40.062	-	39.062	7.400
342.7	40.000	-	39.000	7.400
343.8	40.062	-	39.062	7.400
344.9	40.062	-	39.062	7.400
346.1	40.062	-	39.000	7.300
347.2	40.000	-	39.062	7.400

348.3	40.062	-	39.062	7.300
349.4	40.000	-	39.062	7.300
350.6	40.062	-	39.062	7.300
351.7	40.000	-	39.062	7.200
352.8	40.062	-	39.062	7.200
353.9	40.000	-	39.062	7.200
355.1	40.000	-	39.062	7.200
356.2	40.000	-	39.000	7.200
357.3	40.062	-	39.062	7.200
358.4	40.000	-	39.062	7.200
359.6	40.000	-	39.000	7.200
360.7	40.062	-	39.000	7.200
361.9	40.062	-	39.062	7.200
363.0	40.062	-	39.062	7.200
364.1	40.062	-	39.062	7.100
365.3	40.000	-	39.062	7.100
366.4	40.062	-	39.062	7.100
367.5	40.062	-	39.062	7.100
368.7	40.062	-	39.062	7.100
369.8	40.062	-	39.000	7.100
370.9	40.000	-	39.062	7.100
372.0	40.062	-	39.062	7.100
373.2	40.000	-	39.062	7.100
374.3	40.000	-	39.062	7.100
375.4	40.000	-	39.062	7.100
376.5	40.062	-	39.062	7.100
377.6	40.062	-	39.062	7.100
378.7	40.062	-	39.000	7.100
379.8	40.062	-	39.062	7.000
381.0	40.062	-	39.062	7.100
382.1	40.062	-	39.062	7.100
383.2	40.062	-	39.062	7.200
384.3	40.000	-	39.000	7.200
385.5	40.062	-	39.000	7.300
386.6	40.000	-	39.062	7.400
387.7	40.062	-	39.000	7.500
388.8	40.000	-	39.062	7.600
390.0	40.062	-	39.062	7.600
391.1	40.062	-	39.062	7.800
392.2	40.000	-	39.062	7.800
393.4	40.000	-	39.062	7.800
394.5	40.062	-	39.000	7.900
395.6	40.062	-	39.062	8.000
396.7	40.062	-	39.000	8.100
397.9	40.062	-	39.000	8.100
399.0	40.062	-	39.062	8.100
400.1	40.062	-	39.062	8.100
401.2	40.062	-	39.000	8.100
402.4	40.000	-	39.062	8.100
403.5	40.062	-	39.062	8.100
404.6	40.062	-	39.062	8.100
405.7	40.000	-	39.000	8.000
406.9	40.062	-	39.000	8.000
408.0	40.062	-	39.000	7.900
409.1	40.062	-	39.062	7.900
410.3	40.062	-	39.062	7.900



411.4	40.062	-	39.000	7.900
412.5	40.000	-	39.062	7.900
413.6	40.062	-	39.000	7.900
414.8	40.062	-	39.062	7.900
415.9	40.062	-	39.000	7.800
417.0	40.062	-	39.062	7.800
418.2	40.062	-	39.000	7.800
419.3	40.000	-	39.000	7.800
420.4	40.000	-	39.000	7.800
421.6	40.062	-	39.062	7.800
422.7	40.062	-	39.000	7.800
423.8	40.062	-	39.062	7.700
425.0	40.062	-	39.062	7.700
426.1	40.062	-	39.062	7.700
427.2	40.062	-	39.062	7.600
428.3	40.062	-	39.062	7.600
429.5	40.062	-	39.000	7.600
430.6	40.062	-	39.000	7.600
431.7	40.000	-	39.000	7.600
432.8	40.062	-	39.000	7.600
433.9	40.062	-	39.062	7.600
435.1	40.062	-	39.000	7.600
436.2	40.000	-	39.062	7.500
437.3	40.062	-	39.062	7.500
438.4	40.062	-	39.062	7.500
439.6	40.062	-	39.000	7.400
440.7	40.062	-	39.000	7.400
441.8	40.062	-	39.000	7.400
442.9	40.062	-	39.062	7.400
444.1	40.062	-	39.000	7.400
445.2	40.062	-	39.000	7.400
446.3	40.062	-	39.062	7.400
447.5	40.000	-	39.062	7.400
448.6	40.062	-	39.062	7.400
449.7	40.062	-	39.062	7.400
450.9	40.062	-	39.062	7.300
452.0	40.062	-	39.000	7.300
453.1	40.000	-	39.062	7.300
454.3	40.000	-	39.062	7.300
455.4	40.062	-	39.062	7.300
456.5	40.000	-	39.000	7.200
457.6	40.000	-	39.000	7.200
458.8	40.062	-	39.000	7.200
459.9	40.062	-	39.062	7.200
461.0	40.062	-	39.000	7.200
462.1	40.062	-	39.062	7.200
463.3	40.000	-	39.000	7.200
464.4	40.000	-	39.000	7.200
465.5	40.062	-	39.000	7.200
466.6	40.062	-	39.062	7.100
467.7	40.062	-	39.062	7.100
468.9	40.000	-	39.000	7.100
470.0	40.000	-	39.000	7.100
471.1	40.000	-	39.000	7.100
472.3	40.062	-	39.062	7.100
473.4	40.062	-	39.000	7.100

474.5	40.062	-	39.000	7.100
475.7	40.062	-	39.000	7.100
476.8	40.000	-	39.000	7.100
477.9	40.062	-	39.000	7.100
479.1	40.062	-	39.062	7.100
480.2	40.062	-	39.000	7.000
481.3	40.062	-	39.062	7.100
482.4	40.062	-	39.000	7.100
483.6	40.062	-	39.000	7.100
484.7	40.000	-	39.062	7.200
485.8	40.000	-	39.000	7.200
486.9	40.062	-	39.062	7.400
488.1	40.062	-	39.000	7.400
489.2	40.062	-	39.062	7.400
490.3	40.000	-	39.000	7.500
491.5	40.062	-	39.062	7.600
492.6	40.000	-	39.062	7.700
493.7	40.000	-	39.062	7.800
494.8	40.062	-	39.062	7.800
496.0	40.062	-	39.062	7.900
497.1	40.062	-	39.062	8.000
498.2	40.000	-	39.062	8.100
499.3	40.000	-	39.000	8.100
500.5	40.062	-	39.000	8.100
501.6	40.062	-	39.062	8.100
502.7	40.000	-	39.062	8.100
503.9	40.062	-	39.000	8.100
505.0	40.062	-	39.062	8.100
506.1	40.062	-	39.000	8.100
507.2	40.062	-	39.062	8.000
508.4	40.000	-	39.062	8.000
509.5	40.062	-	39.062	8.000
510.6	40.062	-	39.062	7.900
511.7	40.000	-	39.062	7.900
512.9	40.000	-	39.062	7.900
514.0	40.062	-	39.062	7.900
515.1	40.062	-	39.000	7.900
516.3	40.062	-	39.000	7.900
517.4	40.062	-	39.000	7.800
518.5	40.062	-	39.062	7.800
519.6	40.000	-	39.062	7.800
520.7	40.000	-	39.062	7.800
521.9	40.000	-	39.062	7.800
523.0	40.000	-	39.062	7.800
524.1	40.062	-	39.000	7.800
525.2	40.000	-	39.000	7.700
526.4	40.000	-	39.062	7.700
527.5	40.062	-	39.062	7.700
528.6	40.062	-	39.062	7.600
529.8	40.062	-	39.062	7.600
530.9	40.062	-	39.062	7.600
532.0	40.062	-	39.062	7.600
533.1	40.062	-	39.000	7.600
534.2	40.062	-	39.062	7.600
535.4	40.062	-	39.062	7.500
536.5	40.000	-	39.062	7.500

537.6	40.062	-	39.000	7.500
538.7	40.062	-	39.062	7.500
539.9	40.062	-	39.062	7.500
541.0	40.062	-	39.062	7.400
542.2	40.000	-	39.062	7.400
543.3	40.000	-	39.000	7.400
544.4	40.062	-	39.000	7.400
545.5	40.062	-	39.062	7.400
546.7	40.062	-	39.000	7.400
547.8	40.062	-	39.062	7.400
548.9	40.062	-	39.062	7.400
550.1	40.062	-	39.062	7.400
551.2	40.000	-	39.000	7.400
552.3	40.062	-	39.062	7.300
553.4	40.000	-	39.000	7.300
554.5	40.062	-	39.062	7.200
555.6	40.062	-	39.062	7.300
556.8	40.000	-	39.062	7.300
557.9	40.062	-	39.062	7.200
559.0	40.062	-	39.062	7.200
560.1	40.062	-	39.062	7.200
561.3	40.000	-	39.062	7.200
562.4	40.062	-	39.000	7.200
563.5	40.062	-	39.062	7.200
564.6	40.062	-	39.062	7.200
565.8	40.062	-	39.062	7.200
566.9	40.000	-	39.062	7.200
568.0	40.062	-	39.062	7.100
569.2	40.062	-	39.062	7.100
570.3	40.062	-	39.000	7.100
571.4	40.062	-	39.000	7.100
572.6	40.062	-	39.062	7.100
573.7	40.062	-	39.062	7.100
574.8	40.062	-	39.062	7.100
575.9	40.000	-	39.062	7.100
577.1	40.062	-	39.062	7.100
578.2	40.000	-	39.062	7.100
579.3	40.062	-	39.000	7.100
580.4	40.062	-	39.000	7.000
581.6	40.062	-	39.062	7.100
582.7	40.062	-	39.062	7.100
583.8	40.062	-	39.062	7.100
585.0	40.062	-	39.062	7.100
586.1	40.062	-	39.062	7.200
587.2	40.062	-	39.000	7.200
588.3	40.062	-	39.062	7.400
589.5	40.062	-	39.062	7.400
590.6	40.000	-	39.062	7.600
591.7	40.062	-	39.062	7.600
592.9	40.062	-	39.062	7.700
594.0	40.062	-	39.062	7.800
595.1	40.062	-	39.062	7.800
596.2	40.062	-	39.062	7.900
597.3	40.062	-	39.062	8.000
598.5	40.062	-	39.062	8.100
599.6	40.062	-	39.062	8.100

600.7	40.062	-	39.062	8.100
601.8	40.062	-	39.062	8.100
602.9	40.062	-	39.062	8.100
604.1	40.062	-	39.062	8.100
605.2	40.062	-	39.062	8.100
606.3	40.062	-	39.062	8.100
607.4	40.062	-	39.062	8.000
608.5	40.000	-	39.062	8.000
609.7	40.000	-	39.062	8.000
610.8	40.062	-	39.062	8.000
611.9	40.062	-	39.062	7.900
613.1	40.062	-	39.062	7.900
614.2	40.062	-	39.062	7.900
615.3	40.062	-	39.062	7.900
616.4	40.062	-	39.062	7.900
617.5	40.000	-	39.000	7.900
618.7	40.000	-	39.062	7.800
619.8	40.062	-	39.062	7.800
620.9	40.062	-	39.000	7.800
622.1	40.062	-	39.000	7.800
623.2	40.062	-	39.062	7.800
624.3	40.062	-	39.000	7.800
625.4	40.062	-	39.000	7.700
626.6	40.062	-	39.062	7.700
627.7	40.000	-	39.062	7.600
628.8	40.062	-	39.062	7.600
629.9	40.062	-	39.000	7.600
631.1	40.062	-	39.062	7.600
632.2	40.062	-	39.062	7.600
633.3	40.062	-	39.062	7.600
634.5	40.062	-	39.062	7.600
635.6	40.062	-	39.000	7.600
636.7	40.062	-	39.000	7.500
637.8	40.000	-	39.062	7.500
639.0	40.062	-	39.062	7.500
640.1	40.062	-	39.062	7.500
641.2	40.062	-	39.062	7.400
642.3	40.000	-	39.062	7.400
643.4	40.062	-	39.062	7.400
644.6	40.062	-	39.062	7.400
645.7	40.062	-	39.000	7.400
646.8	40.062	-	39.000	7.400
647.9	40.062	-	39.062	7.400
649.0	40.062	-	39.062	7.400
650.1	40.000	-	39.062	7.400
651.3	40.062	-	39.062	7.400
652.4	40.000	-	39.062	7.300
653.5	40.062	-	39.000	7.300
654.6	40.062	-	39.062	7.300
655.8	40.000	-	39.062	7.300
656.9	40.000	-	39.062	7.300
658.0	40.062	-	39.062	7.300
659.1	40.062	-	39.062	7.200
660.2	40.062	-	39.062	7.200
661.4	40.062	-	39.062	7.200
662.5	40.062	-	39.062	7.200

663.6	40.062	-	39.062	7.200
664.7	40.062	-	39.000	7.200
665.9	40.000	-	39.062	7.200
667.0	40.062	-	39.062	7.200
668.1	40.062	-	39.062	7.200
669.3	40.062	-	39.000	7.100
670.4	40.000	-	39.062	7.100
671.5	40.062	-	39.062	7.100
672.6	40.062	-	39.062	7.100
673.8	40.000	-	39.000	7.100
674.9	40.062	-	39.000	7.100
676.0	40.000	-	39.062	7.100
677.1	40.062	-	39.000	7.100
678.3	40.000	-	39.000	7.100
679.4	40.062	-	39.062	7.100
680.5	40.062	-	39.062	7.000
681.6	40.062	-	39.062	7.000
682.8	40.062	-	39.000	7.100
683.9	40.062	-	39.062	7.100
685.0	40.062	-	39.000	7.200
686.1	40.000	-	39.062	7.200
687.3	40.062	-	39.062	7.200
688.4	40.000	-	39.062	7.400
689.5	40.062	-	39.000	7.400
690.6	40.062	-	39.062	7.500
691.7	40.000	-	39.062	7.600
692.9	40.062	-	39.062	7.700
694.0	40.062	-	39.062	7.800
695.1	40.000	-	39.000	7.800
696.3	40.062	-	39.000	7.900
697.4	40.000	-	39.062	8.000
698.5	40.062	-	39.062	8.000
699.6	40.062	-	39.000	8.100
700.7	40.062	-	39.062	8.100
701.9	40.062	-	39.062	8.100
703.0	40.062	-	39.062	8.100
704.1	40.000	-	39.062	8.100
705.2	40.062	-	39.062	8.100
706.3	40.062	-	39.000	8.000
707.4	40.062	-	39.062	8.000
708.6	40.062	-	39.062	7.900
709.7	40.000	-	39.000	7.900
710.8	40.062	-	39.000	7.900
712.0	40.062	-	39.062	7.900
713.1	40.062	-	39.062	7.900
714.2	40.000	-	39.062	7.900
715.3	40.062	-	39.000	7.800
716.5	40.062	-	39.062	7.800
717.6	40.000	-	39.062	7.800
718.7	40.000	-	39.062	7.800
719.8	40.062	-	39.062	7.800
720.9	40.062	-	39.062	7.800
722.1	40.000	-	39.062	7.800
723.2	40.000	-	39.062	7.700
724.3	40.000	-	39.062	7.700
725.5	40.000	-	39.062	7.700

726.6	40.000	-	39.000	7.600
727.7	40.062	-	39.000	7.600
728.9	40.000	-	39.062	7.600
730.0	40.000	-	39.062	7.600
731.1	40.000	-	39.062	7.600
732.2	40.062	-	39.062	7.600
733.3	40.000	-	39.062	7.600
734.4	40.000	-	39.062	7.600
735.6	40.000	-	39.000	7.500
736.7	40.062	-	39.062	7.500
737.8	40.000	-	39.062	7.500
738.9	40.000	-	39.000	7.500
740.1	40.062	-	39.062	7.400
741.2	40.062	-	39.062	7.400
742.3	40.000	-	39.062	7.400
743.4	40.062	-	39.000	7.400
744.6	40.062	-	39.000	7.400
745.7	40.062	-	39.062	7.400
746.8	40.062	-	39.000	7.400
747.9	40.062	-	39.000	7.300
749.1	40.062	-	39.062	7.400
750.2	40.062	-	39.062	7.300
751.3	40.062	-	39.062	7.300
752.5	40.000	-	39.062	7.300
753.6	40.062	-	39.062	7.300
754.7	40.062	-	39.000	7.200
755.8	40.062	-	39.062	7.200
756.9	40.000	-	39.000	7.200
758.1	40.062	-	39.000	7.200
759.2	40.062	-	39.000	7.200
760.3	40.062	-	39.062	7.200
761.5	40.062	-	39.000	7.200
762.6	40.062	-	39.000	7.200
763.7	40.062	-	39.000	7.200
764.9	40.062	-	39.062	7.100
766.0	40.062	-	39.062	7.100
767.2	40.062	-	39.062	7.100
768.3	40.062	-	39.000	7.100
769.4	40.000	-	39.000	7.100
770.5	40.062	-	39.062	7.100
771.7	40.062	-	39.062	7.100
772.8	40.062	-	39.000	7.100
773.9	40.062	-	39.062	7.100
775.1	40.062	-	39.000	7.100
776.2	40.062	-	39.000	7.100
777.3	40.062	-	39.000	7.100
778.5	40.062	-	39.062	7.000
779.6	40.062	-	39.000	7.000
780.7	40.062	-	39.062	7.000
781.8	40.062	-	39.062	7.100
783.0	40.062	-	39.062	7.100
784.1	40.062	-	39.062	7.200
785.2	40.062	-	39.000	7.200
786.3	40.062	-	39.062	7.400
787.4	40.000	-	39.000	7.400
788.6	40.062	-	39.062	7.500

789.7	40.000	-	39.062	7.600
790.8	40.062	-	39.062	7.700
792.0	40.062	-	39.000	7.800
793.1	40.062	-	39.000	7.800
794.2	40.062	-	39.000	7.900
795.3	40.062	-	39.062	8.000
796.4	40.062	-	39.062	8.000
797.6	40.000	-	39.000	8.100
798.7	40.000	-	39.000	8.100
799.8	40.062	-	39.062	8.100
800.9	40.062	-	39.000	8.100
802.1	40.062	-	39.000	8.100
803.2	40.062	-	39.062	8.100
804.3	40.062	-	39.000	8.000
805.4	40.062	-	39.000	8.000
806.6	40.062	-	39.000	8.000
807.7	40.062	-	39.000	7.900
808.8	40.062	-	39.000	7.900
809.9	40.062	-	39.062	7.900
811.1	40.062	-	39.000	7.900
812.2	40.062	-	39.062	7.900
813.3	40.062	-	39.062	7.900
814.5	40.062	-	39.062	7.800
815.6	40.062	-	39.000	7.800
816.7	40.062	-	39.000	7.800
817.9	40.000	-	39.062	7.800
819.0	40.062	-	39.062	7.800
820.1	40.062	-	39.062	7.800
821.2	40.062	-	39.000	7.800
822.4	40.000	-	39.000	7.700
823.5	40.062	-	39.000	7.700
824.6	40.062	-	39.062	7.600
825.7	40.062	-	39.062	7.600
826.8	40.000	-	39.000	7.600
828.0	40.062	-	39.062	7.600
829.1	40.000	-	39.062	7.600
830.2	40.000	-	39.000	7.600
831.3	40.062	-	39.000	7.600
832.5	40.062	-	39.062	7.600
833.6	40.000	-	39.062	7.500
834.7	40.062	-	39.000	7.500
835.8	40.000	-	39.062	7.500
836.9	40.000	-	39.062	7.400
838.0	40.062	-	39.062	7.400
839.2	40.062	-	39.000	7.400
840.3	40.062	-	39.062	7.400
841.5	40.062	-	39.062	7.400
842.6	40.000	-	39.062	7.400
843.7	40.062	-	39.000	7.400
844.8	40.062	-	39.062	7.400
846.0	40.062	-	39.062	7.300
847.1	40.062	-	39.062	7.300
848.2	40.062	-	39.000	7.300
849.3	40.000	-	39.062	7.300
850.5	40.062	-	39.062	7.300
851.6	40.062	-	39.062	7.200

852.7	40.062	-	39.062	7.200
853.9	40.062	-	39.062	7.200
855.0	40.062	-	39.000	7.200
856.2	40.062	-	39.062	7.200
857.3	40.062	-	39.000	7.200
858.4	40.000	-	39.062	7.200
859.5	40.062	-	39.062	7.200
860.7	40.000	-	39.062	7.100
861.8	40.062	-	39.000	7.100
862.9	40.062	-	39.062	7.100
864.1	40.000	-	39.062	7.100
865.2	40.062	-	39.062	7.100
866.3	40.062	-	39.062	7.100
867.4	40.062	-	39.000	7.100
868.6	40.062	-	39.062	7.100
869.7	40.000	-	39.062	7.100
870.8	40.000	-	39.062	7.100
871.9	40.062	-	39.062	7.100
873.1	40.062	-	39.062	7.100
874.2	40.062	-	39.000	7.100
875.3	40.062	-	39.062	7.100
876.5	40.062	-	39.062	7.100
877.6	40.062	-	39.062	7.200
878.7	40.000	-	39.000	7.300
879.8	40.062	-	39.000	7.400
881.0	40.062	-	39.062	7.400
882.1	40.062	-	39.062	7.500
883.2	40.062	-	39.062	7.600
884.3	40.062	-	39.062	7.700
885.5	40.062	-	39.062	7.800
886.6	40.000	-	39.062	7.800
887.7	40.062	-	39.062	7.900
888.8	40.000	-	39.000	7.900
890.0	40.000	-	39.062	8.000
891.1	40.062	-	39.062	8.100
892.2	40.062	-	39.062	8.100
893.4	40.062	-	39.062	8.100
894.5	40.062	-	39.000	8.100
895.6	40.000	-	39.062	8.100
896.7	40.000	-	39.062	8.100
897.9	40.062	-	39.062	8.100
899.0	40.062	-	39.062	8.100
900.1	40.000	-	39.062	8.000
901.3	40.062	-	39.000	8.000
902.4	40.062	-	39.000	7.900
903.6	40.000	-	39.062	7.900
904.7	40.062	-	39.000	7.900
905.8	40.062	-	39.062	7.900
906.9	40.062	-	39.062	7.900
908.1	40.062	-	39.062	7.900
909.2	40.062	-	39.000	7.800
910.3	40.000	-	39.062	7.800
911.5	40.062	-	39.062	7.800
912.6	40.062	-	39.062	7.800
913.7	40.062	-	39.062	7.800
914.8	40.062	-	39.062	7.800



915.9	40.062	-	39.062	7.800
917.1	40.000	-	39.062	7.800
918.2	40.062	-	39.062	7.700
919.4	40.000	-	39.062	7.700
920.5	40.062	-	39.062	7.600
921.6	40.062	-	39.000	7.600
922.7	40.000	-	39.062	7.600
923.9	40.062	-	39.062	7.600
925.0	40.062	-	39.062	7.600
926.1	40.000	-	39.062	7.600
927.2	40.062	-	39.062	7.600
928.4	40.062	-	39.062	7.500
929.5	40.000	-	39.000	7.500
930.6	40.062	-	39.062	7.500
931.8	40.062	-	39.062	7.500
932.9	40.062	-	39.062	7.400
934.0	40.000	-	39.062	7.400
935.2	40.062	-	39.000	7.400
936.3	40.062	-	39.000	7.400
937.4	40.062	-	39.062	7.400
938.5	40.062	-	39.062	7.400
939.7	40.000	-	39.062	7.400
940.8	40.062	-	39.062	7.400
941.9	40.062	-	39.062	7.300
943.1	40.062	-	39.062	7.300
944.2	40.000	-	39.062	7.300
945.3	40.062	-	39.000	7.200
946.4	40.000	-	39.062	7.200
947.6	40.000	-	39.062	7.200
948.7	40.062	-	39.062	7.200
949.8	40.062	-	39.000	7.200
950.9	40.000	-	39.062	7.200
952.1	40.062	-	39.062	7.200
953.2	40.062	-	39.062	7.200
954.3	40.062	-	39.062	7.200
955.4	40.062	-	39.062	7.200
956.6	40.062	-	39.062	7.200
957.7	40.062	-	39.062	7.100
958.8	40.000	-	39.062	7.200
959.9	40.062	-	39.062	7.100
961.1	40.000	-	39.000	7.100
962.2	40.062	-	39.062	7.100
963.3	40.062	-	39.062	7.100
964.4	40.062	-	39.062	7.100
965.5	40.000	-	39.000	7.100
966.7	40.062	-	39.062	7.100
967.8	40.062	-	39.062	7.100
968.9	40.000	-	39.000	7.100
970.0	40.000	-	39.062	7.100
971.1	40.000	-	39.000	7.100
972.3	40.000	-	39.062	7.100
973.4	40.062	-	39.000	7.100
974.6	40.062	-	39.062	7.200
975.7	40.000	-	39.062	7.200
976.8	40.062	-	39.062	7.300
978.0	40.062	-	39.000	7.400

979.1	40.000	-	39.000	7.500
980.2	40.000	-	39.062	7.600
981.3	40.000	-	39.062	7.600
982.5	40.062	-	39.000	7.800
983.6	40.062	-	39.062	7.800
984.7	40.062	-	39.062	7.800
985.8	40.000	-	39.000	7.900
986.9	40.000	-	39.062	8.000
988.1	40.062	-	39.062	8.100
989.2	40.062	-	39.062	8.100
990.3	40.062	-	39.062	8.100
991.5	40.062	-	39.000	8.100
992.6	40.062	-	39.000	8.100
993.7	40.062	-	39.062	8.100
994.9	40.062	-	39.062	8.100
996.0	40.062	-	39.062	8.000
997.1	40.062	-	39.062	8.000
998.3	40.062	-	39.062	8.000
999.4	40.062	-	39.062	8.000
1000.5	40.000	-	39.062	7.900
1001.6	40.062	-	39.062	7.900
1002.8	40.000	-	39.062	7.900
1003.9	40.000	-	39.062	7.900
1005.0	40.062	-	39.062	7.800
1006.1	40.000	-	39.062	7.800
1007.2	40.062	-	39.000	7.800
1008.3	40.062	-	39.062	7.800
1009.5	40.062	-	39.000	7.800
1010.6	40.062	-	39.000	7.800
1011.7	40.000	-	39.000	7.800
1012.9	40.000	-	39.000	7.700
1014.0	40.000	-	39.062	7.700
1015.1	40.062	-	39.000	7.700
1016.3	40.062	-	39.062	7.600
1017.4	40.062	-	39.062	7.600
1018.5	40.062	-	39.062	7.600
1019.6	40.000	-	39.000	7.600
1020.7	40.000	-	39.062	7.600
1021.8	40.062	-	39.062	7.600
1023.0	40.062	-	39.062	7.600
1024.1	40.062	-	39.062	7.500
1025.3	40.062	-	39.062	7.500
1026.4	40.062	-	39.062	7.500
1027.5	40.062	-	39.062	7.500
1028.6	40.062	-	39.062	7.500
1029.8	40.062	-	39.062	7.400
1030.9	40.062	-	39.062	7.400
1032.0	40.000	-	39.062	7.400
1033.2	40.000	-	39.062	7.400
1034.3	40.062	-	39.062	7.400
1035.4	40.062	-	39.062	7.400
1036.5	40.062	-	39.000	7.400
1037.7	40.062	-	39.062	7.400
1038.8	40.062	-	39.062	7.400
1039.9	40.062	-	39.062	7.300
1041.1	40.062	-	39.062	7.300

1042.2	40.062	-	39.000	7.200
1043.3	40.000	-	39.062	7.200
1044.5	40.062	-	39.062	7.200
1045.6	40.062	-	39.062	7.200
1046.7	40.000	-	39.062	7.200
1047.8	40.062	-	39.062	7.200
1049.0	40.000	-	39.062	7.200
1050.1	40.000	-	39.000	7.200
1051.2	40.062	-	39.062	7.200
1052.3	40.062	-	39.062	7.200
1053.5	40.062	-	39.062	7.200
1054.6	40.062	-	39.062	7.100
1055.7	40.062	-	39.062	7.100
1056.8	40.062	-	39.062	7.100
1058.0	40.000	-	39.062	7.100
1059.1	40.062	-	39.062	7.100
1060.2	40.000	-	39.000	7.100
1061.3	40.062	-	39.062	7.100
1062.4	40.062	-	39.062	7.100
1063.6	40.062	-	39.062	7.100
1064.7	40.062	-	39.062	7.100
1065.8	40.062	-	39.000	7.100
1067.0	40.062	-	39.062	7.000
1068.1	40.062	-	39.062	7.100
1069.2	40.062	-	39.062	7.100
1070.3	40.062	-	39.000	7.200
1071.5	40.062	-	39.000	7.200
1072.6	40.062	-	39.000	7.300
1073.7	40.000	-	39.062	7.400
1074.8	40.062	-	39.062	7.400
1075.9	40.062	-	39.062	7.500
1077.1	40.062	-	39.062	7.600
1078.2	40.000	-	39.062	7.700
1079.3	40.062	-	39.062	7.800
1080.4	40.062	-	39.000	7.800
1081.6	40.062	-	39.062	7.900
1082.7	40.000	-	39.062	7.900
1083.8	40.062	-	39.062	8.100
1085.0	40.000	-	39.062	8.100
1086.1	40.062	-	39.062	8.100
1087.2	40.062	-	39.062	8.100
1088.4	40.062	-	39.062	8.100
1089.5	40.062	-	39.062	8.100
1090.6	40.000	-	39.062	8.100
1091.8	40.000	-	39.000	8.100
1092.9	40.062	-	39.000	8.100
1094.0	40.062	-	39.062	8.000
1095.1	40.000	-	39.062	7.900
1096.3	40.062	-	39.062	8.000
1097.4	40.062	-	39.062	7.900
1098.5	40.062	-	39.062	7.900
1099.6	40.062	-	39.062	7.900
1100.7	40.000	-	39.062	7.900
1101.9	40.000	-	39.062	7.900
1103.0	40.062	-	39.062	7.900
1104.1	40.062	-	39.062	7.800

1105.3	40.062	-	39.062	7.800
1106.4	40.062	-	39.062	7.800
1107.5	40.062	-	39.062	7.800
1108.7	40.062	-	39.062	7.800
1109.8	40.062	-	39.000	7.700
1110.9	40.062	-	39.062	7.700
1112.0	40.062	-	39.062	7.700
1113.1	40.062	-	39.062	7.700
1114.2	40.062	-	39.000	7.700
1115.3	40.000	-	39.000	7.600
1116.5	40.000	-	39.062	7.600
1117.6	40.062	-	39.062	7.600
1118.7	40.062	-	39.062	7.600
1119.9	40.062	-	39.062	7.600
1121.0	40.062	-	39.062	7.500
1122.1	40.062	-	39.062	7.500
1123.2	40.062	-	39.062	7.500
1124.4	40.000	-	39.000	7.500
1125.5	40.062	-	39.062	7.500
1126.6	40.062	-	39.062	7.400
1127.8	40.062	-	39.062	7.400
1128.9	40.000	-	39.000	7.400
1130.0	40.062	-	39.062	7.400
1131.1	40.062	-	39.062	7.400
1132.3	40.062	-	39.062	7.400
1133.4	40.000	-	39.062	7.300
1134.6	40.062	-	39.062	7.300
1135.7	40.062	-	39.062	7.300
1136.8	40.062	-	39.000	7.300
1138.0	40.062	-	39.062	7.300
1139.1	40.000	-	39.062	7.300
1140.2	40.000	-	39.062	7.200
1141.3	40.062	-	39.062	7.200
1142.5	40.062	-	39.062	7.200
1143.6	40.062	-	39.062	7.200
1144.7	40.062	-	39.062	7.200
1145.8	40.062	-	39.000	7.200
1147.0	40.062	-	39.000	7.200
1148.1	40.062	-	39.062	7.200
1149.2	40.062	-	39.062	7.200
1150.3	40.062	-	39.000	7.200
1151.4	40.062	-	39.000	7.100
1152.5	40.062	-	39.062	7.100
1153.7	40.062	-	39.062	7.100
1154.8	40.000	-	39.062	7.100
1155.9	40.062	-	39.062	7.100
1157.1	40.062	-	39.000	7.100
1158.2	40.062	-	39.000	7.100
1159.3	40.062	-	39.062	7.100
1160.5	40.062	-	39.062	7.100
1161.6	40.062	-	39.062	7.100
1162.7	40.062	-	39.000	7.000
1163.8	40.062	-	39.062	7.000
1165.0	40.000	-	39.062	7.100
1166.1	40.062	-	39.062	7.100
1167.2	40.000	-	39.000	7.100

1168.3	40.062	-	39.062	7.200
1169.4	40.062	-	39.062	7.200
1170.6	40.062	-	39.062	7.400
1171.7	40.062	-	39.062	7.400
1172.8	40.062	-	39.000	7.500
1174.0	40.062	-	39.062	7.600
1175.1	40.062	-	39.062	7.700
1176.2	40.062	-	39.062	7.800
1177.3	40.000	-	39.062	7.800
1178.5	40.062	-	39.000	7.900
1179.6	40.000	-	39.062	7.900
1180.7	40.062	-	39.062	8.100
1181.9	40.000	-	39.062	8.100
1183.0	40.062	-	39.062	8.100
1184.1	40.000	-	39.000	8.100
1185.3	40.000	-	39.000	8.100
1186.4	40.000	-	39.062	8.100
1187.5	40.062	-	39.000	8.100
1188.6	40.062	-	39.000	8.100
1189.8	40.000	-	39.062	8.000
1190.9	40.062	-	39.062	8.000
1192.0	40.062	-	39.000	8.000
1193.1	40.062	-	39.000	7.900
1194.3	40.062	-	39.062	7.900
1195.4	40.062	-	39.062	7.900
1196.5	40.062	-	39.062	7.900
1197.7	40.062	-	39.000	7.900
1198.8	40.062	-	39.000	7.900
1199.9	40.000	-	39.062	7.800
1201.1	40.000	-	39.062	7.800

# Photometer Stability Test

02-03-2023 17:15

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front Photometer

Difference: 0.00200 abs < 0.01 abs - Passed

	Minimum	Maximum	Difference	Average	SD	CV
Sample absorbance	1.0131	1.0151	0.0020	1.0137	0.0005	0.0527

Front readings

965,987	6,107	4,298,568	6,107	1.0143
964,999	6,107	4,298,802	6,107	1.0151
966,400	6,107	4,298,542	6,107	1.0140
965,071	6,107	4,298,603	6,107	1.0150
966,524	6,107	4,298,430	6,107	1.0139
966,713	6,107	4,298,287	6,107	1.0137
966,725	6,107	4,298,042	6,107	1.0137
964,955	6,107	4,298,059	6,107	1.0150
966,968	6,107	4,298,082	6,107	1.0135
966,063	6,107	4,297,938	6,107	1.0142
965,132	6,107	4,297,859	6,107	1.0149
967,087	6,107	4,297,759	6,107	1.0134
966,427	6,107	4,297,834	6,107	1.0139
965,903	6,107	4,297,507	6,107	1.0142
965,974	6,107	4,297,024	6,107	1.0141
967,184	6,107	4,297,245	6,107	1.0132
967,114	6,107	4,297,247	6,107	1.0133
967,262	6,107	4,297,379	6,107	1.0132
967,184	6,107	4,297,447	6,107	1.0133
966,082	6,107	4,297,519	6,107	1.0141
967,209	6,107	4,297,467	6,107	1.0132
967,006	6,107	4,297,262	6,107	1.0134
967,030	6,107	4,297,283	6,107	1.0133
967,312	6,107	4,297,680	6,107	1.0132
967,438	6,107	4,298,160	6,107	1.0132
966,679	6,107	4,298,267	6,107	1.0138
966,100	6,107	4,298,433	6,107	1.0142
967,563	6,107	4,298,433	6,107	1.0131
967,417	6,107	4,298,689	6,107	1.0133
967,526	6,107	4,298,911	6,107	1.0132
966,152	6,107	4,298,942	6,107	1.0143
967,750	6,107	4,299,219	6,107	1.0131
966,522	6,107	4,299,367	6,107	1.0141
967,615	6,107	4,299,156	6,107	1.0132
967,504	6,107	4,299,206	6,107	1.0133
967,030	6,107	4,299,181	6,107	1.0137
967,661	6,107	4,299,282	6,107	1.0132
967,687	6,107	4,299,327	6,107	1.0132
966,383	6,107	4,299,555	6,107	1.0142
967,689	6,107	4,299,439	6,107	1.0132
966,905	6,107	4,298,964	6,107	1.0137
967,278	6,107	4,298,683	6,107	1.0134
966,191	6,107	4,298,497	6,107	1.0142

966,676	6,107	4,298,165	6,107	1.0138
966,495	6,107	4,297,996	6,107	1.0139
967,404	6,107	4,297,909	6,107	1.0132
966,862	6,107	4,297,336	6,107	1.0135
967,158	6,107	4,297,134	6,107	1.0132
967,022	6,107	4,296,995	6,107	1.0133
966,963	6,107	4,296,887	6,107	1.0133
966,714	6,107	4,296,860	6,107	1.0135
966,940	6,107	4,296,733	6,107	1.0133
966,225	6,107	4,296,385	6,107	1.0138
966,935	6,107	4,296,691	6,107	1.0133
965,596	6,107	4,296,526	6,107	1.0143
966,900	6,107	4,296,558	6,107	1.0133

Parameters

Filter: 1

Total time of measurement (min): 10

Time interval between readings (sec): 10

Water absorbance. Front: 0.069807

Sample channel 0. Front: 6107

Ref. channel 0. Front: 518499

# Photometer Noise Test

02-03-2023 17:04

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front Photometer

Noise : 0.00002 abs < 0.001 abs - Passed

Estimated derive: 0.00170 abs/min < 0.002 abs/min - Passed

	Minimum	Maximum	Difference	Average	SD
CV					
Sample counts 0.061	963,622	965,560	1,938	964,643	586
Reference counts 0.003	4,299,530	4,300,196	666	4,300,024	122
Sample absorbance 0.0423	1.01489	1.01629	0.00139	1.0156	0.00043

Front readings

963,622	4,299,530	1.01629
963,657	4,299,626	1.01628
963,668	4,299,713	1.01629
963,696	4,299,718	1.01627
963,742	4,299,742	1.01623
963,767	4,299,779	1.01622
963,776	4,299,792	1.01622
963,776	4,299,935	1.01624
963,815	4,299,932	1.01621
963,829	4,299,881	1.01619
963,862	4,299,975	1.01618
963,880	4,299,934	1.01616
963,875	4,299,972	1.01617
963,889	4,299,915	1.01615
963,914	4,299,890	1.01613
963,935	4,299,999	1.01613
963,963	4,299,968	1.01611
963,964	4,299,928	1.01610
963,953	4,299,945	1.01611
963,991	4,299,940	1.01608
964,000	4,299,915	1.01607
964,036	4,299,993	1.01605
964,074	4,300,021	1.01603
964,093	4,300,032	1.01602
964,098	4,300,097	1.01603
964,136	4,300,001	1.01598
964,139	4,300,044	1.01599
964,180	4,300,061	1.01596
964,200	4,300,080	1.01595
964,214	4,299,977	1.01592
964,202	4,300,031	1.01594
964,240	4,299,928	1.01589
964,261	4,299,928	1.01587
964,283	4,299,925	1.01586
964,308	4,299,917	1.01584



964,337	4,299,968	1.01582
964,361	4,300,002	1.01581
964,409	4,299,967	1.01577
964,435	4,300,000	1.01575
964,443	4,300,019	1.01575
964,444	4,299,990	1.01575
964,481	4,300,007	1.01572
964,483	4,300,087	1.01573
964,512	4,300,098	1.01571
964,546	4,300,029	1.01568
964,566	4,300,092	1.01567
964,588	4,300,120	1.01566
964,593	4,300,028	1.01564
964,646	4,300,090	1.01561
964,664	4,300,112	1.01560
964,689	4,300,107	1.01558
964,693	4,300,050	1.01557
964,722	4,300,155	1.01556
964,727	4,300,160	1.01556
964,724	4,300,154	1.01556
964,737	4,300,110	1.01555
964,785	4,300,153	1.01552
964,833	4,300,082	1.01547
964,861	4,300,161	1.01546
964,879	4,300,116	1.01544
964,920	4,300,147	1.01541
964,941	4,300,148	1.01540
964,948	4,300,074	1.01538
964,970	4,300,056	1.01536
964,964	4,300,118	1.01538
965,039	4,300,132	1.01532
965,017	4,300,112	1.01533
965,065	4,300,040	1.01529
965,061	4,300,196	1.01531
965,076	4,300,082	1.01528
965,096	4,300,038	1.01526
965,109	4,300,136	1.01527
965,167	4,300,063	1.01521
965,177	4,300,166	1.01522
965,202	4,300,185	1.01521
965,196	4,300,178	1.01521
965,225	4,300,174	1.01519
965,242	4,300,182	1.01518
965,245	4,300,137	1.01517
965,249	4,300,180	1.01517
965,254	4,300,153	1.01516
965,279	4,300,083	1.01513
965,289	4,300,107	1.01513
965,326	4,300,110	1.01510
965,323	4,300,025	1.01509
965,303	4,300,064	1.01511
965,331	4,300,052	1.01509
965,377	4,300,037	1.01505
965,378	4,300,050	1.01505
965,441	4,300,100	1.01501
965,429	4,300,073	1.01502

965,446	4,300,191	1.01502
965,456	4,300,024	1.01499
965,485	4,299,992	1.01496
965,493	4,300,017	1.01496
965,491	4,300,035	1.01496
965,507	4,299,985	1.01494
965,525	4,299,946	1.01492
965,533	4,299,944	1.01492
965,560	4,299,937	1.01489

Parameters

Filter: 1

Number of measurements: 100

Time interval between readings (sec): 0

Water absorbance. Front: 0.069807

Sample channel 0. Front: 6107

Ref. channel 0. Front: 518499

# Level Detection Test

02-03-2023 17:30

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front

In reaction cuvette - Passed

Real Detected

50	0
50	0
50	0
75	0
75	0
75	0
100	0
100	0
100	0
125	0
125	0
125	0
150	0
150	0
150	0
200	164
200	180
200	167
250	219
250	219
250	219
300	274
300	270
300	270

In reagent bottle - Passed

Volume Steps

400	661
400	661
400	661
400	661
400	661
400	661
400	661
400	661
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400	661
400	661
400	661



# Tip Pump Test

02-03-2023 17:20

**Software** v2.6.1s

**CPU Serial Number** 01E84E531400007A

**Instrument SN**

**908020059**

Front tip pump

Volume: 1540 ul >= 1400 ul - Passed

# Level Detection Test

02-03-2023 17:30

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front

In reaction cuvette - Passed

Real Detected

50	0
50	0
50	0
75	0
75	0
75	0
100	0
100	0
100	0
125	0
125	0
125	0
150	0
150	0
150	0
200	164
200	180
200	167
250	219
250	219
250	219
300	274
300	270
300	270

In reagent bottle - Passed

Volume Steps

400	661
400	661
400	661
400	661
400	661
400	661
400	661
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Parameters

Cycles: 3

Initial volume (ul): 400

Final volume (ul): 400

Intervals: 15

# Washer Hydraulics Test

02-03-2023 17:43

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front washer

Pumping level check

D1: 371 ul. 300 ul <= L <= 500 ul - Passed  
D2: 375 ul. 300 ul <= L <= 500 ul - Passed  
D3: 640 ul. 500 ul <= L <= 700 ul - Passed  
D4: 644 ul. 500 ul <= L <= 700 ul - Passed  
D5: 658 ul. 500 ul <= L <= 700 ul - Passed  
D6: 614 ul. 500 ul <= L <= 700 ul - Passed

Aspiration level check

D1: 0 ul < 60 ul - Passed  
D2: 3 ul < 60 ul - Passed  
D3: 0 ul < 60 ul - Passed  
D4: 0 ul < 60 ul - Passed  
D5: 0 ul < 60 ul - Passed  
D6: 0 ul < 60 ul - Passed  
D7: 0 ul < 60 ul - Passed

Pumping level stability

D1: 5.7810 % < 9 % - Passed  
D2: 6.1280 % < 9 % - Passed  
D3: 2.1328 % < 6 % - Passed  
D4: 1.6451 % < 6 % - Passed  
D5: 1.9587 % < 6 % - Passed  
D6: 1.4259 % < 6 % - Passed

	Minimum	Maximum	Difference	Average	SD	CV
D1	323	363	40	347	20	5.781
D2	334	375	41	352	22	6.128
D3	618	649	31	637	14	2.133
D4	618	640	22	633	10	1.645
D5	627	653	26	645	13	1.959
D6	592	609	17	605	9	1.426

Parameters

Front washer

Pump steps: 1400

Washer steps: 413

Time down: 1990



# Washing Test

02-03-2023 17:56

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Front washer

3 - 1: 0.0004 abs. < 0.02 abs. - Passed

	Minimum	Maximum	Average
1	0.0452	0.0583	0.0475
2	0.0457	0.0590	0.0480
3	0.0452	0.0579	0.0475
2 - 1	0.0000	0.0120	0.0008
3 - 1	0.0000	0.0004	0.0001

Front washer

0.0504	0.0487	0.0504	0.0001
0.0469	0.0479	0.0470	0.0000
0.0465	0.0473	0.0464	-0.0002
0.0486	0.0492	0.0490	0.0003
0.0512	0.0551	0.0510	-0.0002
0.0472	0.0467	0.0470	-0.0001
0.0464	0.0470	0.0465	0.0001
0.0480	0.0476	0.0476	-0.0003
0.0469	0.0472	0.0469	0.0000
0.0530	0.0514	0.0532	0.0001
0.0461	0.0465	0.0461	0.0000
0.0452	0.0458	0.0452	0.0000
0.0475	0.0470	0.0474	-0.0002
0.0460	0.0463	0.0461	0.0000
0.0474	0.0480	0.0476	0.0001
0.0475	0.0471	0.0474	-0.0001
0.0583	0.0528	0.0579	-0.0003
0.0476	0.0470	0.0472	-0.0004
0.0472	0.0474	0.0472	0.0000
0.0483	0.0490	0.0484	0.0001
0.0527	0.0539	0.0527	0.0000
0.0458	0.0463	0.0458	0.0000
0.0473	0.0476	0.0473	0.0000
0.0464	0.0467	0.0464	0.0000
0.0486	0.0491	0.0486	0.0001
0.0472	0.0475	0.0472	0.0000
0.0459	0.0464	0.0460	0.0001
0.0465	0.0468	0.0464	-0.0001
0.0466	0.0471	0.0467	0.0000
0.0477	0.0479	0.0476	-0.0001
0.0468	0.0471	0.0467	-0.0001
0.0475	0.0477	0.0475	0.0000
0.0492	0.0485	0.0489	-0.0003
0.0471	0.0473	0.0471	0.0000
0.0479	0.0484	0.0479	0.0000
0.0471	0.0476	0.0471	0.0000
0.0475	0.0482	0.0475	0.0000
0.0484	0.0486	0.0485	0.0001
0.0483	0.0485	0.0483	0.0000

0.0491	0.0495	0.0491	0.0001
0.0469	0.0469	0.0469	0.0000
0.0460	0.0465	0.0460	-0.0001
0.0469	0.0590	0.0469	0.0000
0.0476	0.0479	0.0476	0.0000
0.0500	0.0503	0.0499	-0.0001
0.0468	0.0468	0.0471	0.0003
0.0454	0.0457	0.0452	-0.0001
0.0468	0.0491	0.0466	-0.0003
0.0464	0.0467	0.0464	0.0000
0.0482	0.0489	0.0479	-0.0002
0.0463	0.0468	0.0463	-0.0001
0.0457	0.0462	0.0456	-0.0001
0.0470	0.0478	0.0469	-0.0001
0.0464	0.0468	0.0464	0.0000
0.0476	0.0487	0.0475	-0.0001
0.0473	0.0474	0.0473	0.0000
0.0453	0.0458	0.0452	0.0000
0.0468	0.0497	0.0466	-0.0002
0.0457	0.0459	0.0456	-0.0001
0.0477	0.0483	0.0475	-0.0002
0.0466	0.0466	0.0467	0.0001
0.0471	0.0472	0.0469	-0.0002
0.0472	0.0478	0.0470	-0.0002
0.0463	0.0466	0.0462	-0.0001
0.0478	0.0489	0.0477	-0.0001
0.0459	0.0462	0.0460	0.0001
0.0463	0.0469	0.0462	-0.0001
0.0476	0.0485	0.0473	-0.0002
0.0464	0.0468	0.0464	0.0000
0.0482	0.0489	0.0480	-0.0001

Parameters

Filter: 1

Drying time (sec): 180

Number of cuvettes: 70

# Clot Detector Test

02-03-2023 19:06

Software v2.6.1s

CPU Serial Number 01E84E531400007A

Instrument SN

908020059

Noise

Front

Noise: 40 < 500 - Passed

Average: 7842

Minimum: 7811

Maximum: 7851

Clot detector check

Front

Pressure ratio > 0.3 < 2 - Passed. Average: 0.918

Calibration

Front

3 ul

Detection window < 32000 - Passed. Average: 22683

Jump > 3000 - Passed. Average: 5130

Jump CV: 2.94 < 3 % - Passed

4 ul

Detection window < 32000 - Passed. Average: 22893

Jump > 3000 - Passed. Average: 5188

Jump CV: 2.5 < 3 % - Passed

5 ul

Detection window < 32000 - Passed. Average: 22756

Jump > 3000 - Passed. Average: 5168

Jump CV: 2.49 < 3 % - Passed

Dilution

Front

Pressure ratio > 0.3 < 2 - Passed. Average: 1.012

Clot detection - Passed. Average: 0.7

Clot detector check

Pressure ratio = (Peak - Base) / (Peak - Valley)

Front

Pressure	Base	Peak	Valley	Plateau	Press.
----------	------	------	--------	---------	--------

AVG	7336	12523	6876	9903	0.92
-----	------	-------	------	------	------

CV (%)	2.63	1.49	2.43	2.05	1.34
--------	------	------	------	------	------

1	7461	12380	6945	10086	0.91
---	------	-------	------	-------	------

2	7574	12835	7173	10142	0.93
---	------	-------	------	-------	------

3	7158	12403	6706	9679	0.92
---	------	-------	------	------	------

4	7380	12484	6874	9960	0.91
---	------	-------	------	------	------

5	7100	12382	6726	9686	0.93
---	------	-------	------	------	------

6	7395	12467	6857	9933	0.9
---	------	-------	------	------	-----

7	7645	12896	7140	10217	0.91
---	------	-------	------	-------	------

8	7356	12517	6858	9916	0.91
---	------	-------	------	------	------

9	7115	12409	6748	9686	0.94
---	------	-------	------	------	------

10 7180 12459 6731 9721 0.92

Calibration

Max = Maximum(Peak,Valley,Plateau)

Jump = Max - Base

Detection window = 3 \* Jump + Base

Front

3 ul

Pressure	Base	Peak	Valley	Plateau	Max	Jump	Detection
AVG	7293	12423	6799	9870	12423	5130	22683
CV (%)	2.01	0.72	1.92	1.7	0.72	2.94	1.51

1	7334	12572	6843	9938	12572	5238	23048
2	7145	12362	6695	9701	12362	5217	22796
3	7154	12397	6672	9695	12397	5243	22883
4	7488	12309	6973	10092	12309	4821	21951
5	7333	12546	6838	9919	12546	5213	22972
6	7248	12444	6720	9803	12444	5196	22836
7	7539	12436	7039	10150	12436	4897	22230
8	7385	12470	6846	9962	12470	5085	22640
9	7171	12390	6688	9725	12390	5219	22828
10	7136	12306	6680	9712	12306	5170	22646

4 ul

Pressure	Base	Peak	Valley	Plateau	Max	Jump	Detection
AVG	7330	12518	6799	9883	12518	5188	22893
CV (%)	1.94	1.21	2.02	1.48	1.21	2.5	1.57

1	7630	12899	7099	10154	12899	5269	23437
2	7286	12565	6777	9869	12565	5279	23123
3	7323	12555	6745	9854	12555	5232	23019
4	7415	12425	6896	10017	12425	5010	22445
5	7129	12395	6647	9671	12395	5266	22927
6	7218	12453	6660	9732	12453	5235	22923
7	7297	12511	6782	9860	12511	5214	22939
8	7456	12349	6914	10024	12349	4893	22135
9	7218	12484	6695	9777	12484	5266	23016
10	7326	12540	6778	9870	12540	5214	22968

5 ul

Pressure	Base	Peak	Valley	Plateau	Max	Jump	Detection
AVG	7252	12420	6739	9809	12420	5168	22756
CV (%)	1.82	0.37	1.52	1.49	0.37	2.49	1.17

1	7450	12403	6904	10038	12403	4953	22309
2	7165	12442	6677	9733	12442	5277	22996
3	7186	12442	6656	9695	12442	5256	22954
4	7424	12402	6886	10006	12402	4978	22358
5	7127	12395	6658	9684	12395	5268	22931
6	7405	12429	6848	9961	12429	5024	22477
7	7125	12364	6673	9676	12364	5239	22842
8	7136	12370	6652	9672	12370	5234	22838
9	7193	12430	6679	9749	12430	5237	22904
10	7313	12527	6761	9872	12527	5214	22955

Dilution

Max = Maximum(Peak,Valley,Plateau)

Jump = Max - Base

Pressure ratio = (Peak - Base) / (Peak - Valley)

Clot ratio = Jump\_Sample / Jump\_Calibration

Front

Calibration. Base 7454 Max 12344 Jump 4890

Clot detected: Clot ratio > 2

Pressure	Base	Peak	Valley	Plateau	Max	Jump	Press.	Clot
AVG	7465	10883	7494	9159	10883	3418	1.01	0.7
CV (%)	3.64	2.82	4.47	3.3	2.82	4.31	5.31	4.21

1	7112	10491	7019	9065	10491	3379	0.97	0.69
2	7210	10579	7342	8693	10579	3369	1.04	0.69
3	7552	10675	7789	9151	10675	3123	1.08	0.64
4	7800	11203	7465	9593	11203	3403	0.91	0.7
5	7169	10830	6939	8827	10830	3661	0.94	0.75
6	7344	10647	7470	9126	10647	3303	1.04	0.68
7	7798	11375	7933	9403	11375	3577	1.04	0.73
8	7774	11189	7831	9586	11189	3415	1.02	0.7
9	7597	11090	7725	9216	11090	3493	1.04	0.71
10	7296	10748	7432	8932	10748	3452	1.04	0.71

Parameters

Sample volume (ul): 10

Reagent volume (ul): 200