








































Supplemental Material 1. Robotic script for multiple serum fatty acid assays










1	Comment	Fatty Acid Script Version 1.3 - Ready to go for infant serum from Pilot Study
2	Comment	Modified from MySamePlsm20080402V13.esc; Pipetting has been calibrated. Applying for multiple assays of same plsm and of individual plsm after manually sampling. Add 2min to each interval between reactions
3	Comment	Beginning of robotic FA assay from sampling
4	User Prompt	"Daily maintenance; Check system liquid, tips; Pre-rinse tubing system with 40 + 5 mL system liquid;" sound : no
5	Set DiTi position	DiTi 1000ul Grid : 2, Site : 1, Position in labware : 1
6	Move LIHA	  Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
7	Comment	Step 1 - addition of plasma samples from Plasma Tube Carrier to Reaction Tubes; 100~200 ul plasma per tube
8	Comment	Using Evo Pre-defined variable Sample_Cnt to pass the value of user defined Variable (n=184)
9	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
10	Set Variable	Sample_Cnt = Number_of_Samples
11	Wash Tips	 2.0 + 1.0 ml
12	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
13	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
14	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
15	Get DiTis	 DiTi 1000ul
16	Aspirate	 100 µl PMP-Serum "Sample Tubes Labware 1" (Col. 1, Rows 1-8)
17	Dispense	 100 µl PMP-Serum "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
18	Drop DiTis	 "Plasma Diti Dispose"
19	End Loop	"Inner Loop Stock to HotPlate Wells"
20	End Loop	"Middle Loop Stock to HotPlate Columns"
21	End Loop	"Outer Loop Stock to HotPlate Labware"






22	Wash Tips	 2 + 1 ml
23	Comment	Step 2 - addition of Solution A (MeOH, Tolu, IS) from Solvent Trough A to Reaction Tubes, 800 ul x 3; transmethylation starts
24	Comment	Beginning of robotic FA assay after samples are loaded in test tubes
25	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
26	Set Variable	Sample_Cnt = Number_of_Samples
27	Wash Tips	 2 + 1 ml
28	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
29	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
30	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
31	Wash Tips	 2 + 1 ml
32	Get DiTis	 DiTi 1000ul
33	Mix	 2 x 400 µl PMP-SolutionA "A Trough" (Col. 1, Rows 1-8)
34	Aspirate	 800 µl PMP-SolutionA "A Trough" (Col. 1, Rows 1-8)
35	Dispense	 800 µl PMP-SolutionA "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
36	Aspirate	 800 µl PMP-SolutionA "A Trough" (Col. 1, Rows 1-8)
37	Dispense	 800 µl PMP-SolutionA "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
38	Aspirate	 800 µl PMP-SolutionA "A Trough" (Col. 1, Rows 1-8)
39	Dispense	 800 µl PMP-SolutionA "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
40	Drop DiTis	 "Diti Dispose"
41	End Loop	"Inner Loop Stock to HotPlate Wells"
42	End Loop	"Middle Loop Stock to HotPlate Columns"













43	End Loop	"Outer Loop Stock to HotPlate Labware"
44	Move LIHA	 Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
45	Execute Application	"C:\Documents and Settings\Administrator\Desktop\TECAN SOFTWARE\EVOware1.0SP1\ComPort.exe -c2 -wTEMPERATURE(1,80)\r" wait
46	Execute Application	"C:\Program Files\Tecan\EVOware\ComPort.exe -c2 -wTEMPERATURE(1,80)\r" wait
47	Comment	Transmethylation step: reaction starts after addition of Solution A followed by turning on heating blocks
48	Start Timer	2
49	Wait for Timer	Timer 2 : 1140 sec
50	Comment	Step 3: addition of Solution B from Solvent Trough B to Reaction Tubes; 800 ul x 6; interval 18 min; transmethylation continues
51	Comment	1st addition of Solution B: 1 of 6
52	Comment	Adding the solution in different reaction tubes on heating block; hence 3 loops are used for each addition of Solution B
53	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
54	Set Variable	Sample_Cnt = Number_of_Samples
55	Wash Tips	 2.0 + 1.0 ml
56	Start Timer	2
57	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
58	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
59	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
60	Get DiTis	 DiTi 1000ul
61	Mix	 2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
62	Aspirate	 800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
63	Dispense	 800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options








64	Drop DiTis		"Diti Dispose"
65	End Loop		"Inner Loop Stock to HotPlate Wells"
66	End Loop		"Middle Loop Stock to HotPlate Columns"
67	End Loop		"Outer Loop Stock to HotPlate Labware"
68	Wash Tips		2.0 + 1.0 ml
69	Wait for Timer		Timer 2 : 1200 sec
70	Move LIHA		Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
71	Comment		2nd addition of Solution B: 2 of 6
72	Set Variable		Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
73	Set Variable		Sample_Cnt = Number_of_Samples
74	Wash Tips		2.0 + 1.0 ml
75	Start Timer		2
76	<input type="checkbox"/> Begin Loop		4 times "Outer Loop Stock to HotPlate Labware"
77	<input type="checkbox"/> Begin Loop		3 times "Middle Loop Stock to HotPlate Columns"
78	<input type="checkbox"/> Begin Loop		2 times "Inner Loop Stock to HotPlate Wells"
79	Get DiTis		DiTi 1000ul
80	Mix		2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
81	Aspirate		800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
82	Dispense		800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
83	Drop DiTis		"Diti Dispose"
84	End Loop		"Inner Loop Stock to HotPlate Wells"












85	End Loop	"Middle Loop Stock to HotPlate Columns"
86	End Loop	"Outer Loop Stock to HotPlate Labware"
87	Wash Tips	 2.0 + 1.0 ml
88	Move LIHA	  Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
89	Wait for Timer	Timer 2 : 1200 sec
90	Comment	3rd addition of Solution B: 3 of 6
91	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
92	Set Variable	Sample_Cnt = Number_of_Samples
93	Wash Tips	 2.0 + 1.0 ml
94	Start Timer	2
95	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
96	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
97	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
98	Get DiTis	 DiTi 1000ul
99	Mix	  2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
100	Aspirate	  800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
101	Dispense	  800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
102	Drop DiTis	 "Diti Dispose"
103	End Loop	"Inner Loop Stock to HotPlate Wells"
104	End Loop	"Middle Loop Stock to HotPlate Columns"
105	End Loop	"Outer Loop Stock to HotPlate Labware"








106	Wash Tips	 1-8	2.0 + 1.0 ml
107	Move LIHA	 1-8	Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
108	Wait for Timer		Timer 2 : 1200 sec
109	Comment		4th addition of Solution B: 4 of 6
110	Set Variable		Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
111	Set Variable		Sample_Cnt = Number_of_Samples
112	Wash Tips	 1-8	2.0 + 1.0 ml
113	Start Timer		2
114	Begin Loop		4 times "Outer Loop Stock to HotPlate Labware"
115	Begin Loop		3 times "Middle Loop Stock to HotPlate Columns"
116	Begin Loop		2 times "Inner Loop Stock to HotPlate Wells"
117	Get DiTis	 1-8	DiTi 1000ul
118	Mix	 1-8	2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
119	Aspirate	 1-8	800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
120	Dispense	 1-8	800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
121	Drop DiTis	 1-8	"Diti Dispose"
122	End Loop		"Inner Loop Stock to HotPlate Wells"
123	End Loop		"Middle Loop Stock to HotPlate Columns"
124	End Loop		"Outer Loop Stock to HotPlate Labware"
125	Wash Tips	 1-8	2.0 + 1.0 ml
126	Wait for Timer		Timer 2 : 1200 sec




















127	Comment	5th addition of Solution B: 5 of 6
128	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
129	Set Variable	Sample_Cnt = Number_of_Samples
130	Wash Tips	 2.0 + 1.0 ml
131	Start Timer	2
132	Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
133	Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
134	Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
135	Get DiTis	 DiTi 1000ul
136	Mix	 2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
137	Aspirate	 800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
138	Dispense	 800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
139	Drop DiTis	 "Diti Dispose"
140	End Loop	"Inner Loop Stock to HotPlate Wells"
141	End Loop	"Middle Loop Stock to HotPlate Columns"
142	End Loop	"Outer Loop Stock to HotPlate Labware"
143	Wash Tips	 2.0 + 1.0 ml
144	Move LIHA	 Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
145	Wait for Timer	Timer 2 : 1200 sec
146	Comment	6th addition of Solution B: 6 of 6
147	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184


































148	Set Variable	Sample_Cnt = Number_of_Samples
149	Wash Tips	 2.0 + 1.0 ml
150	Start Timer	2
151	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
152	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
153	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
154	Get DiTis	 DiTi 1000ul
155	Mix	  2 x 400 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
156	Aspirate	  800 µl PMP-SolutionB "B Trough" (Col. 1, Rows 1-8)
157	Dispense	  800 µl PMP-SolutionB "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
158	Drop DiTis	 "Diti Dispose"
159	End Loop	"Inner Loop Stock to HotPlate Wells"
160	End Loop	"Middle Loop Stock to HotPlate Columns"
161	End Loop	"Outer Loop Stock to HotPlate Labware"
162	Wash Tips	 2.0 + 1.0 ml
163	Wait for Timer	Timer 2 : 1800 sec
164	Move LIHA	  Positioning with global Z-Travel Wash Station Cleaner shallow (Col. 1, Rows 1-8)
165	Comment	Step 4: addition of Solution C (w/o aceChlor) from Solvent Trough C to Reaction Tubes; 800 ul x 2; interval 28 min
166	Comment	1st addition of Solution C: 1 of 2
167	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
168	Set Variable	Sample_Cnt = Number_of_Samples





































169	Wash Tips	 1-8	2.0 + 1.0 ml
170	Start Timer	2	
171	Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"	
172	Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"	
173	Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"	
174	Get DiTis	 1-8	DiTi 1000ul
175	Mix	 1-8	2 x 400 µl PMP-SolutionC "C Trough" (Col. 1, Rows 1-8)
176	Aspirate	 1-8	800 µl PMP-SolutionC "C Trough" (Col. 1, Rows 1-8)
177	Dispense	 1-8	800 µl PMP-SolutionC "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
178	Drop DiTis	 1-8	"Diti Dispose"
179	End Loop	"Inner Loop Stock to HotPlate Wells"	
180	End Loop	"Middle Loop Stock to HotPlate Columns"	
181	End Loop	"Outer Loop Stock to HotPlate Labware"	
182	Wash Tips	 1-8	2.0 + 1.0 ml
183	Wait for Timer	Timer 2 : 1800 sec	
184	Execute Application	"C:\Documents and Settings\Administrator\Desktop\TECAN SOFTWARE\EVOware1.0SP1\ComPort.exe -c2 -wTEMPERATURE(1,24)\r" wait	
185	Execute Application	"C:\Program Files\Tecan\EVOware\ComPort.exe -c2 -wTEMPERATURE(1,24)\r" wait	
186	Start Timer	3	
187	Wait for Timer	Timer 3 : 10 sec	
188	Comment	2nd addition of Solution C (add after cooling Heater Block): 2 of 2	
	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184	




190	Set Variable	Sample_Cnt = Number_of_Samples
191	Wash Tips	 2.0 + 1.0 ml
192	Start Timer	4
193	<input type="checkbox"/> Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
194	<input type="checkbox"/> Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
195	<input type="checkbox"/> Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
196	Get DiTis	 DiTi 1000ul
197	Mix	  2 x 400 µl PMP-SolutionC "C Trough" (Col. 1, Rows 1-8)
198	Aspirate	  800 µl PMP-SolutionC "C Trough" (Col. 1, Rows 1-8)
199	Dispense	  800 µl PMP-SolutionC "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
200	Drop DiTis	 "Diti Dispose"
201	End Loop	"Inner Loop Stock to HotPlate Wells"
202	End Loop	"Middle Loop Stock to HotPlate Columns"
203	End Loop	"Outer Loop Stock to HotPlate Labware"
204	Wash Tips	 2.0 + 1.0 ml
205	Wait for Timer	Timer 4 : 2100 sec
206	Comment	Waiting for 35 min for the cooling of reaction heat block
207	Comment	Step 5: addition of Solution D (Decane/Pentane) from Solvent Trough D to Reaction Tubes; 800 ul x 1; extract FAME
208	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
209	Set Variable	Sample_Cnt = Number_of_Samples
210	Wash Tips	 2.0 + 1.0 ml


211	Begin Loop	4 times "Outer Loop Stock to HotPlate Labware"
212	Begin Loop	3 times "Middle Loop Stock to HotPlate Columns"
213	Begin Loop	2 times "Inner Loop Stock to HotPlate Wells"
214	Get DiTis	 DiTi 1000ul
215	Mix	 3 x 400 µl PMP-SolutionD "D Trough" (Col. 1, Rows 1-8)
216	Aspirate	 800 µl PMP-SolutionD "D Trough" (Col. 1, Rows 1-8)
217	Dispense	 800 µl PMP-SolutionD "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
218	Drop DiTis	 "Diti Dispose"
219	End Loop	"Inner Loop Stock to HotPlate Wells"
220	End Loop	"Middle Loop Stock to HotPlate Columns"
221	End Loop	"Outer Loop Stock to HotPlate Labware"
222	Wash Tips	 2.0 + 1.0 ml
223	Start Timer	1
224	Wait for Timer	Timer 1 : 10 sec
225	Comment	Step 6: extraction of FAME w/ Solution D (Decane/Pentane); 400ul x 25 times of aspirate/dispense.
226	Set Variable	Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
227	Set Variable	Sample_Cnt = Number_of_Samples
228	Begin Loop	4 times "Outer Loop Vary Labware for FA Extraction"
229	Begin Loop	3 times "Middle Loop Vary Column for FA Extraction"
230	Begin Loop	2 times "Inner Loop Vary 8 Wells for FA Extraction"
231	Wash Tips	 2.0 + 1.0 ml

232	Get DiTis		DiTi 1000ul
233	Command	"C5T360,-5000"	
234	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
235	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
236	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
237	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
238	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
239	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
240	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
241	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
242	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
243	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
244	Start Timer	4	
245	Wait for Timer	Timer 4 : 10 sec	
246	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
247	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
248	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
249	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
250	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
251	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
252	Aspirate		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
253	Dispense		400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options

254	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
255	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
256	Start Timer		4	
257	Drop DiTis			"Diti Dispose"
258	Wash Tips			4 + 2 ml
259	Get DiTis			DiTi 1000ul
260	Wait for Timer			Timer 4 : 10 sec
261	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
262	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
263	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
264	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
265	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
266	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
267	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
268	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
269	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
270	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
271	Start Timer		4	
272	Wait for Timer			Timer 4 : 10 sec
273	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
274	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
275	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options

276	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
277	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
278	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
279	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
280	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
281	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
282	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
283	Start Timer	4		
284	Drop DiTis			"Diti Dispose"
285	Wash Tips			4 + 2 ml
286	Get DiTis			DiTi 1000ul
287	Wait for Timer	Timer 4 : 10 sec		
288	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
289	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
290	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
291	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
292	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
293	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
294	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
295	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
296	Aspirate			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
297	Dispense			400 µl PMP-Extraction "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options

298	Drop DiTis		"Diti Dispose"
299	End Loop		"Inner Loop Vary 8 Wells for FA Extraction"
300	End Loop		"Middle Loop Vary Column for FA Extraction"
301	End Loop		"Outer Loop Vary Labware for FA Extraction"
302	Wash Tips		8 + 4 ml
303	Comment		Step 7: transfer of top layer contained FAME to GC vials
304	Execute Application		"C:\Documents and Settings\Administrator\Desktop\TECAN SOFTWARE\EVOware1.0SP1\ComPort.exe -c2 -wTEMPERATURE(2,55)\r" wait
305	Execute Application		"C:\Program Files\Tecan\EVOware\ComPort.exe -c2 -wTEMPERATURE(2,55)\r" wait
306	Set Variable		Number_of_Samples "Enter # of Samples to Run" "Enter # of Samples to Run", 1 - 184
307	Set Variable		Sample_Cnt = Number_of_Samples
308	<input type="checkbox"/> Begin Loop		4 times "Out loop for hexane transfer"
309	<input type="checkbox"/> Begin Loop		3 times "Middle loop for hexane transfer"
310	<input type="checkbox"/> Begin Loop		2 times "Inner loop vary 8 wells for hexane transfer"
311	Wash Tips		2.0 + 1.0 ml
312	Get DiTis		DiTi 1000ul
313	Mix		3 x 250 µl PMP-SolutionD "D Trough" (Col. 1, Rows 1-8)
314	Aspirate		250 µl PMP-FAME "Heating Block Labware 1" (Col. 1, Rows 1-8) , 3 options
315	Dispense		250 µl PMP-FAME "GC Vials" (Col. 1, Rows 1-8) , 3 options
316	Drop DiTis		"Diti Dispose"
317	End Loop		"Inner loop vary 8 wells for hexane transfer"
318	End Loop		"Middle loop for hexane transfer"

319	End Loop	"Out loop for hexane transfer"
320	Wash Tips	 8 + 4 ml
321	Comment	Step 8 (Final): concentration of decane/pentane contained FAME
322	Start Timer	5
323	Wait for Timer	Timer 5 : 4200 sec
324	Execute Application	"C:\Documents and Settings\Administrator\Desktop\TECAN SOFTWARE\EVOware1.0SP1\ComPort.exe -c2 -wTEMPERATURE(2,24)\r" wait
325	Execute Application	"C:\Program Files\Tecan\EVOware\ComPort.exe -c2 -wTEMPERATURE(2,24)\r" wait
326	Comment	End of robotic FA assay; samples are ready for GC acquiring data