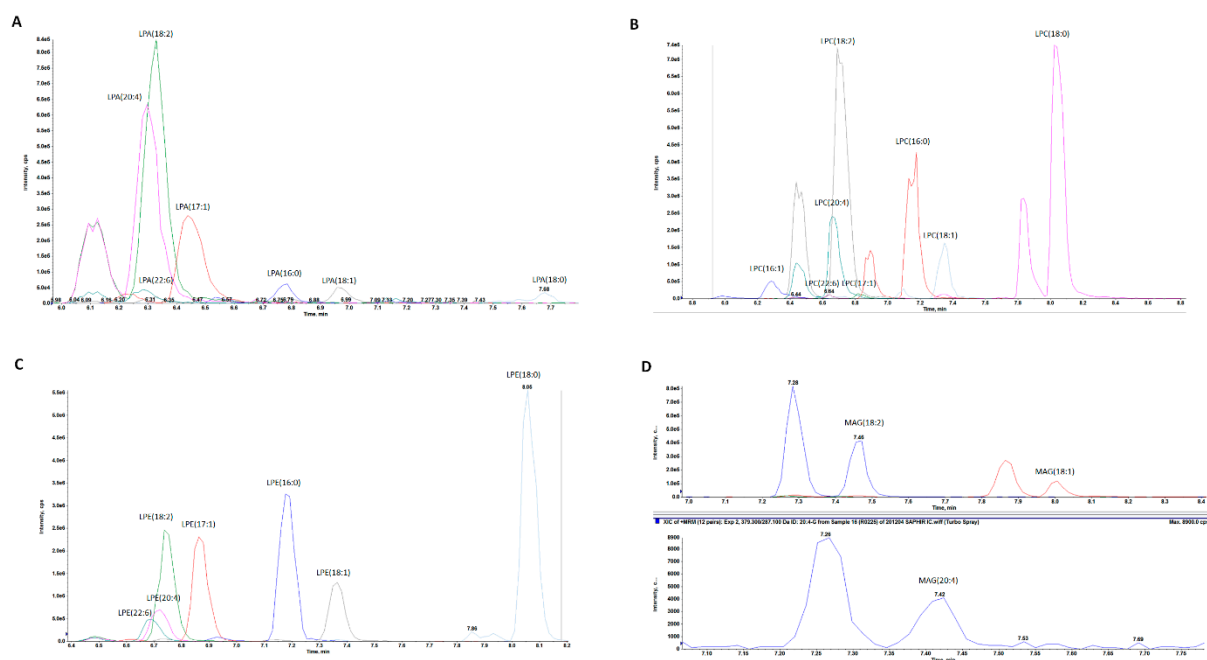


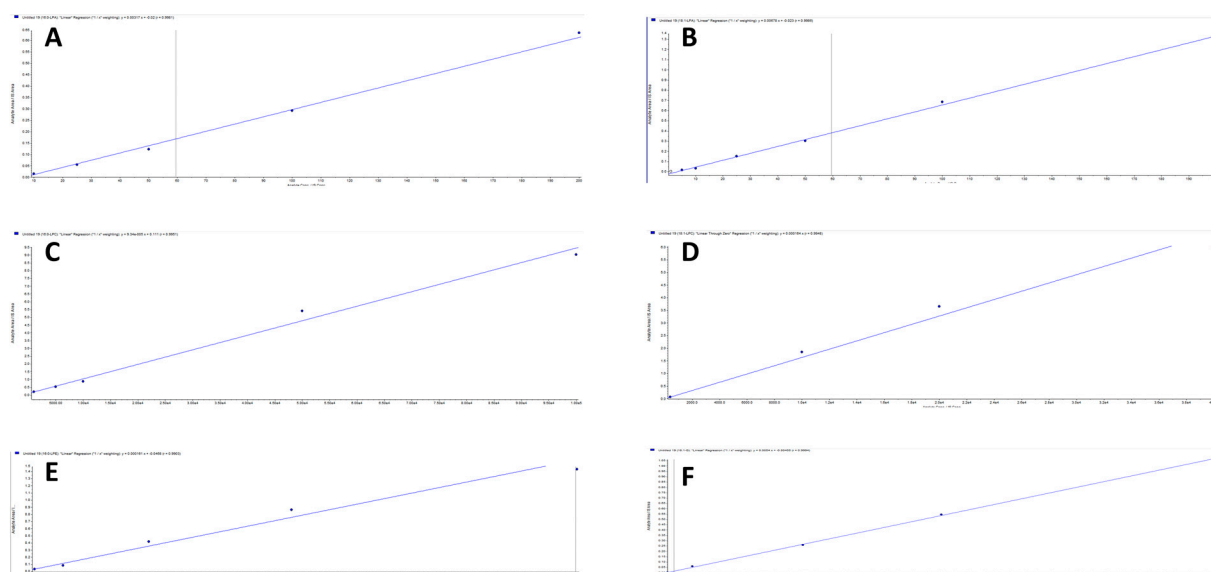
Supplemental Figure S1 :

Chromatograms of rat plasma showing the elution of LPA (A), LPC (B) LPE (C) and MAG (D).



LPA: lysophosphatidic acids; LPC: lysophosphatidylcholine; LPE: lysophosphatidylethanolamine; MAG: monoacylglycerol. All compounds exhibited two peaks corresponding to the position of the esterified fatty acid (1- or 2-) on the glycerol backbone. Annotation corresponds to the integrated compounds (1-acyl lysophospholipid released after the action of phospholipase A₂).

Supplemental Figure S2 : Calibration curves of the analytical standard of LPA(16:0) ($r^2=0.998$, A), LPA(18:1) ($r^2=0.999$, B), LPC(16:0) ($r^2=0.995$, C), LPC(18:1) ($r^2=0.995$, D), LPE(16 :0) ($r^2=0.990$, E) and MAG(18:1) ($r^2=0.999$, F) performed in a surrogate matrix (sodium chloride 0.9%)



LPA: lysophosphatidic acids; LPC: lysophosphatidylcholine; LPE: lysophosphatidylethanolamine; MAG: monoacylglycerol.

Supplemental Table S1: Repeatability and reproducibility analysis using pooled plasma. Analyses were performed in triplicate on two separate days using compound-to-IS normalized area under curve.

Analyte.	Day 1	Day 2	Overall
	Mean \pm sd (CV%)	Mean \pm sd (CV%)	Mean \pm sd (CV%)
LPA(16:0)	0.221 \pm 0.010 (4.5)	0.197 \pm 0.028 (14.1)	0.209 \pm 0.023 (11.0)
LPA(18:0)	0.177 \pm 0.020 (11.5)	0.154 \pm 0.023 (14.8)	0.166 \pm 0.024 (14.1)
LPA(18:1)	0.121 \pm 0.007 (5.6)	0.120 \pm 0.017 (14.0)	0.120 \pm 0.011 (9.54)
LPA(18:2)	2.05 \pm 0.07 (3.3)	2.11 \pm 0.26 (12.3)	2.08 \pm 0.17 (8.34)
LPA(20:4)	1.69 \pm 0.077 (4.5)	1.94 \pm 0.42 (21.9)	1.81 \pm 0.30 (16.8)
LPA(22:6)	0.150 \pm 0.007 (4.8)	0.174 \pm 0.032 (18.5)	0.162 \pm 0.025 (15.2)
LPC(16:0)	16.2 \pm 2.1 (13.3)	19.2 \pm 2.0 (10.4)	17.7 \pm 2.5 (14.2)
LPC(16:1)	2.69 \pm 0.37 (13.7)	3.43 \pm 0.43 (12.4)	3.06 \pm 0.54 (17.6)
LPC(18:0)	23.2 \pm 3.4 (14.6)	23.5 \pm 3.6 (19.5)	23.4 \pm 3.6 (15.5)
LPC(18:1)	6.28 \pm 0.94 (15.0)	6.58 \pm 1.14 (17.3)	6.43 \pm 0.95 (14.7)
LPC(18:2)	28.1 \pm 1.99 (7.1)	27.0 \pm 5.0 (18.5)	27.5 \pm 3.44 (12.5)
LPC(20:4)	9.25 \pm 1.96 (21.2)	9.27 \pm 1.84 (19.8)	9.26 \pm 1.70 (18.3)
LPC(22:6)	0.410 \pm 0.088 (21.3)	0.512 \pm 0.211 (48.9)	0.461 \pm 0.155 (33.7)
LPE(16:0)	0.828 \pm 0.019 (2.3)	0.776 \pm 0.114 (14.7)	0.802 \pm 0.079 (9.8)
LPE(18:0)	1.27 \pm 0.49 (38.5)	1.38 \pm 0.33 (23.8)	1.33 \pm 0.38 (28.5)
LPE(18:1)	0.404 \pm 0.030 (7.5)	0.404 \pm 0.038 (9.4)	0.404 \pm 0.031 (7.6)
LPE(18:2)	0.424 \pm 0.095 (22.3)	0.369 \pm 0.036 (9.8)	0.397 \pm 0.071 (17.9)
LPE(20:4)	0.208 \pm 0.031 (15.0)	0.134 \pm 0.015 (11.3)	0.171 \pm 0.04 (26.9)
LPE(22:6)	0.123 \pm 0.024 (19.8)	0.102 \pm 0.031 (29.8)	0.113 \pm 0.028 (24.2)
MAG(18:1)	0.094 \pm 0.029 (30.2)	0.079 \pm 0.009 (11.2)	0.087 \pm 0.021 (23.8)
MAG(18:2)	0.671 \pm 0.151 (22.5)	0.550 \pm 0.085 (15.5)	0.610 \pm 0.128 (21.0)
MAG(20:4)	0.0085 \pm 0.0016 (18.9)	0.0070 \pm 0.0023 (32.9)	0.0078 \pm 0.0020 (25.2)

CV : coefficient of variation (expressed in %); IS: internal standard; LPA: lysophosphatidic acids; LPC: lysophosphatidylcholine; LPE: lysophosphatidylethanolamine; MAG: monoacylglycerol ; sd: standard deviation.