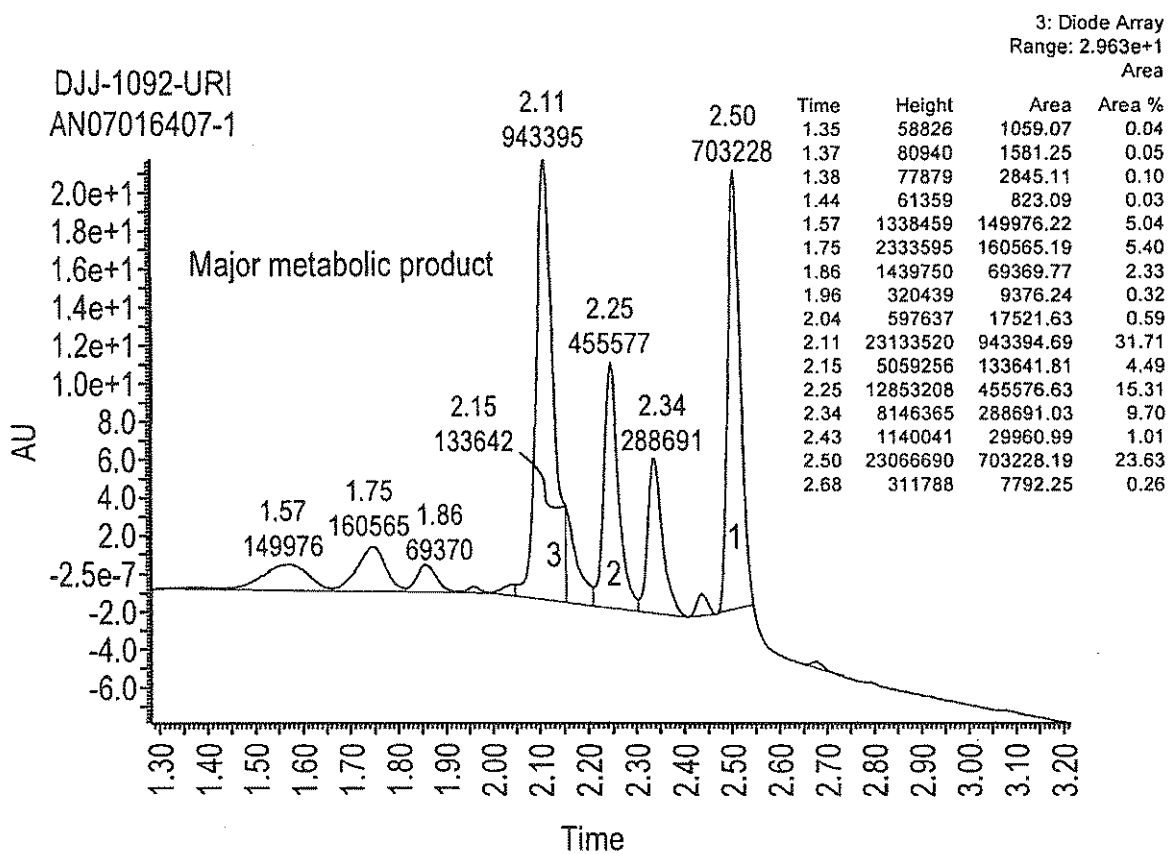


1/11

FIG. 1

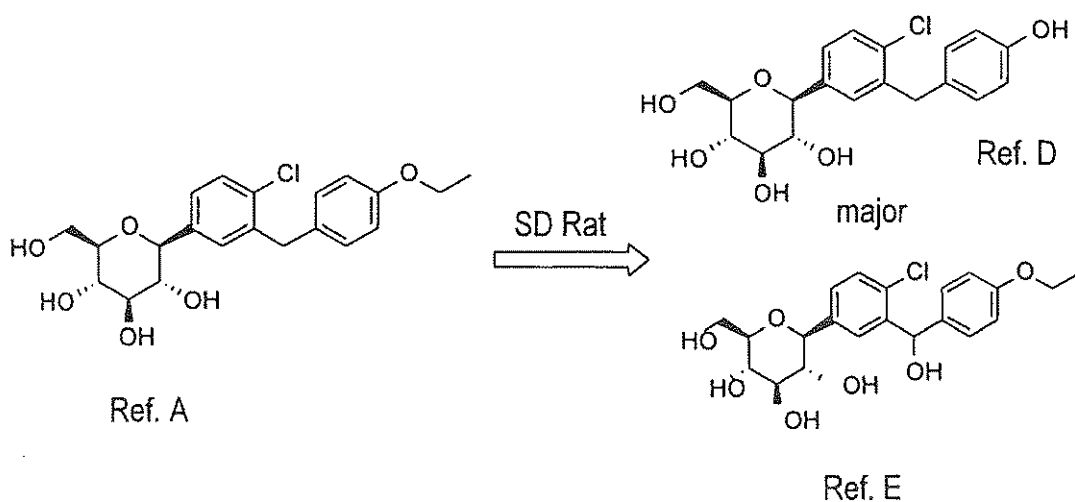


Legend:

1 = Ref. A

2 = Ref. E

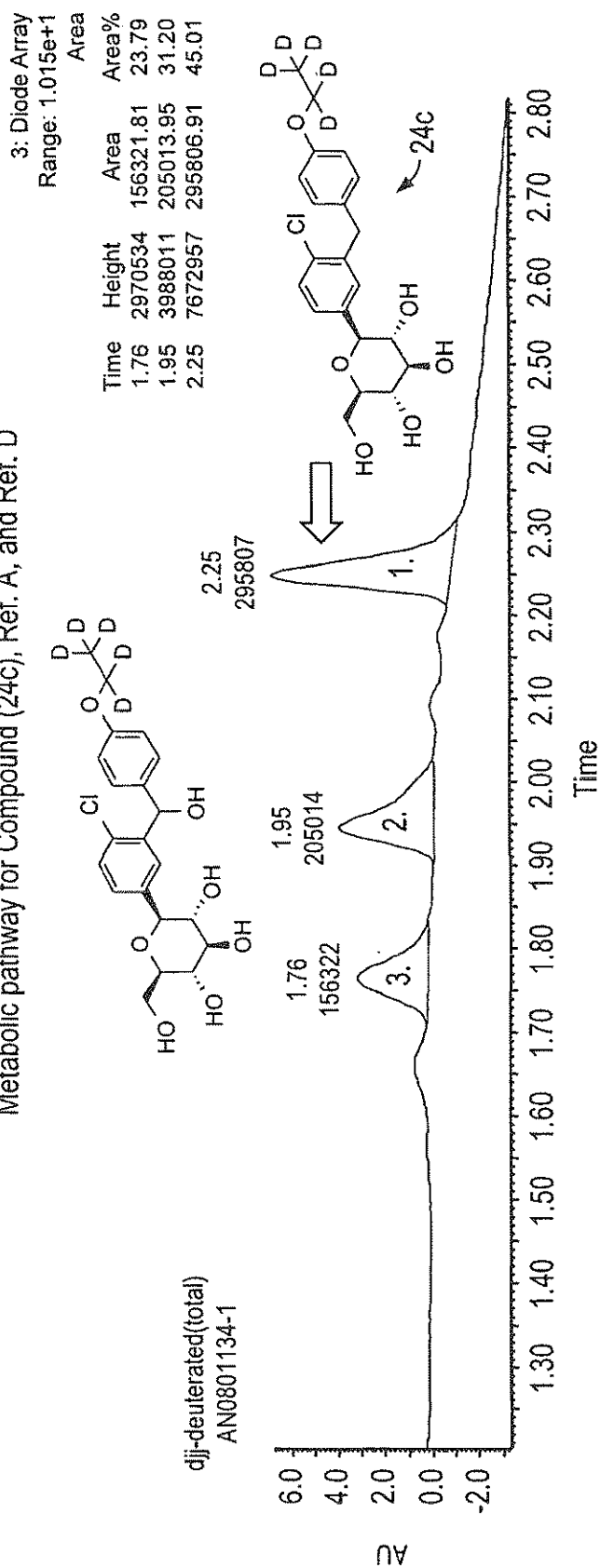
3 = Ref. D



2/11

FIG. 2A

Metabolic pathway for Compound (24c), Ref. A, and Ref. D

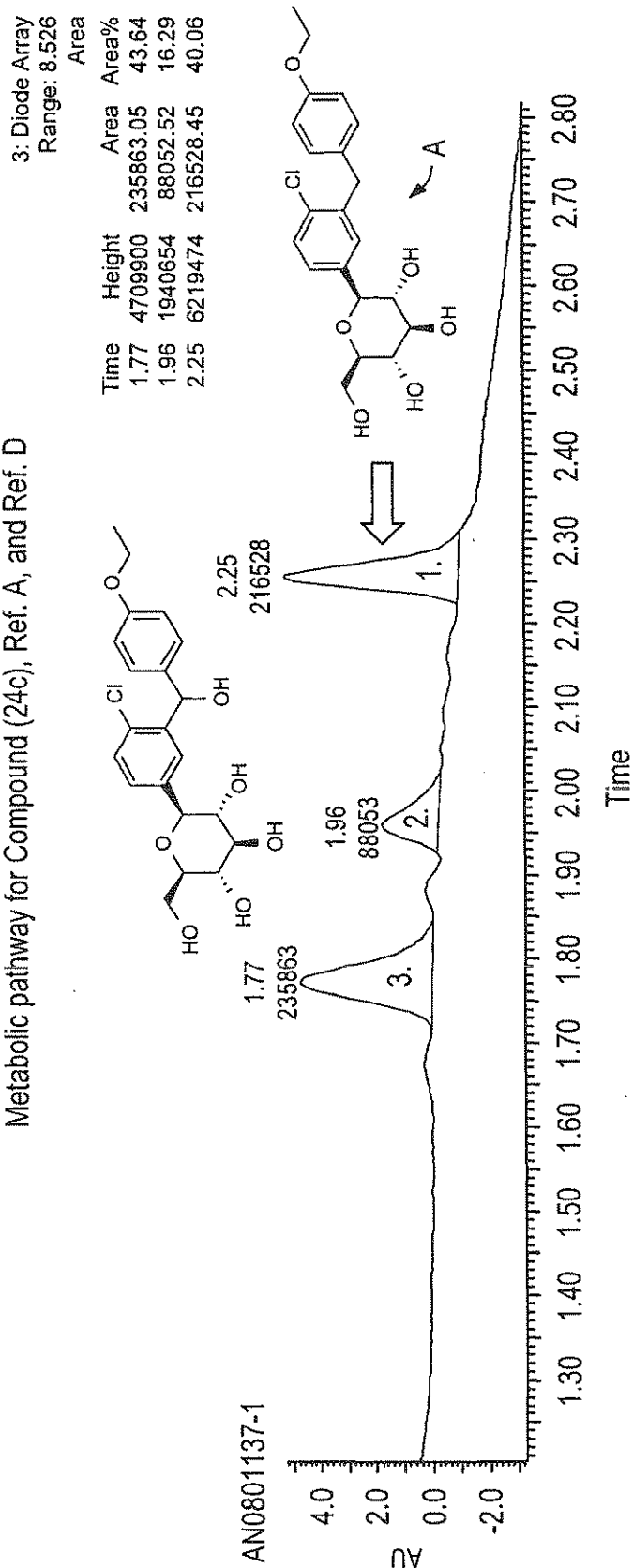


Legend: 1 = Compound (24c) 2 = Ref. E-d5 3 = Ref. D

3/11

FIG. 2B

Metabolic pathway for Compound (24c), Ref. A, and Ref. D

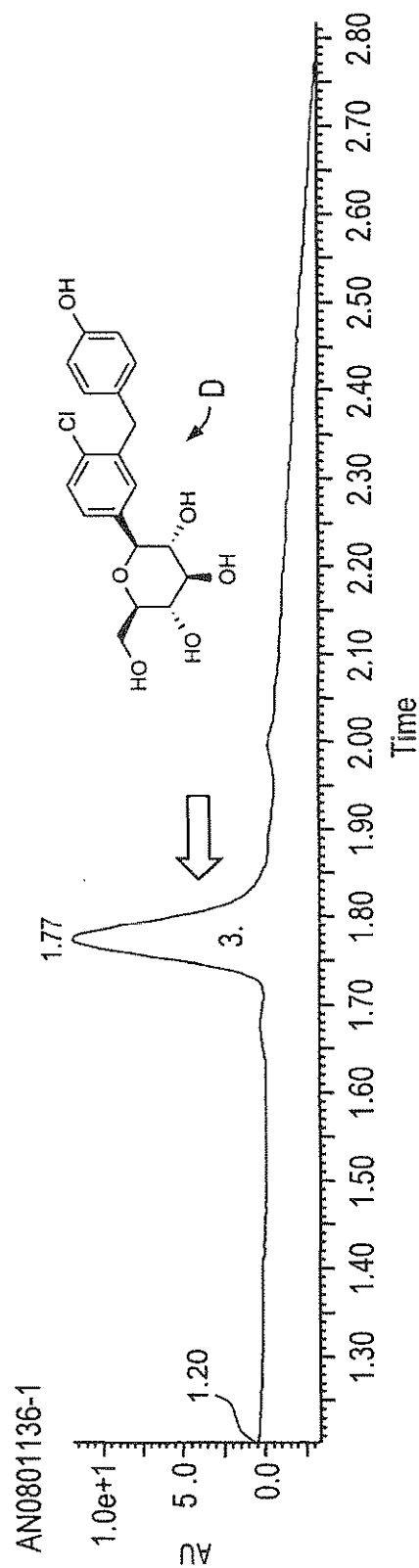


Legend: 1 = Ref. A 2 = Ref. E 3 = Ref. D

4/11

FIG. 2C

Metabolic pathway for Compound (24c), Ref. A, and Ref. D

3: Diode Array
Range: 1.511e+1

Legend: 3 = Ref. D

5/11

FIG. 3A

Metabolic pathway for Compound (24d), Ref. B, Ref. A, and Ref. D

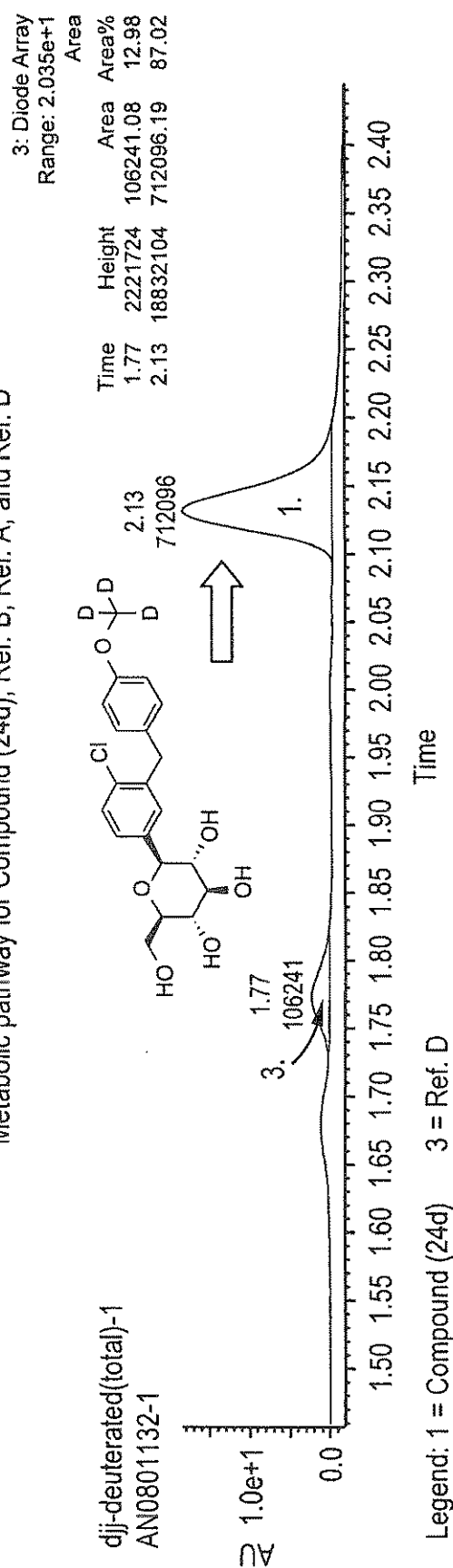


FIG. 3B

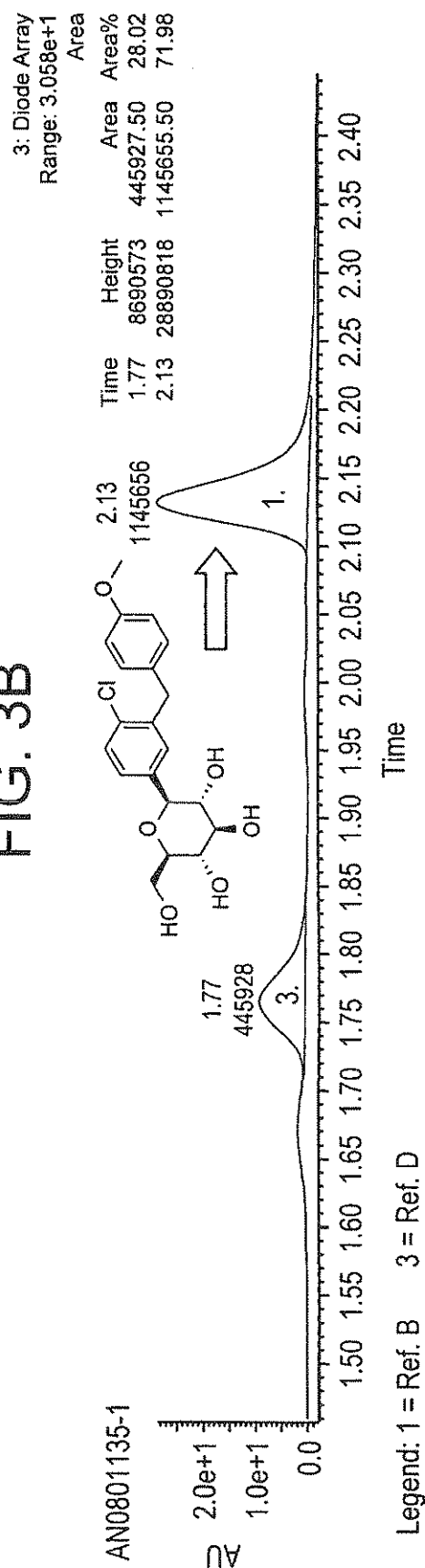
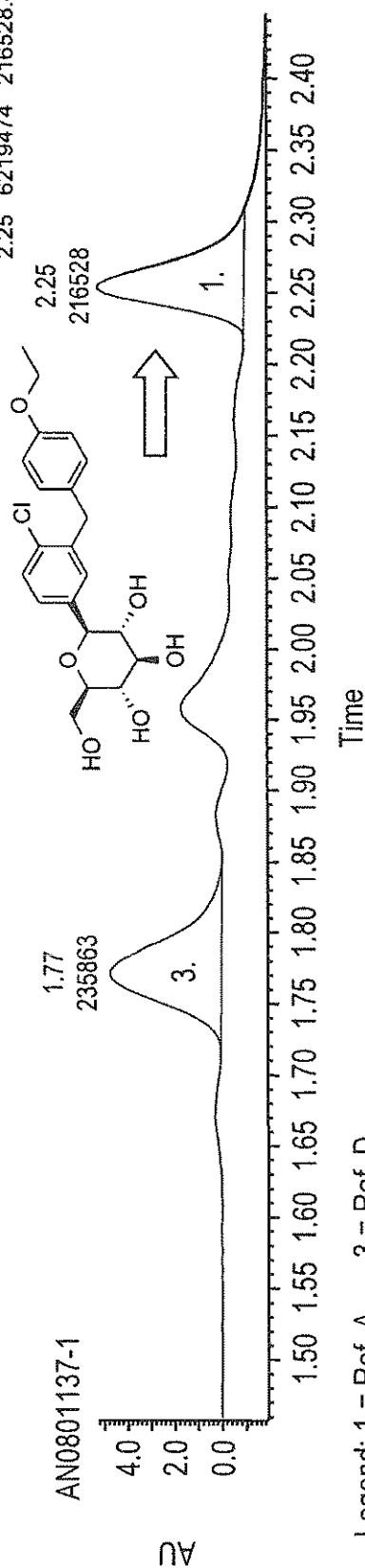


FIG. 3C

Metabolic pathway for Compound (24d), Ref. B, Ref. A, and Ref. D

3: Diode Array
Range: 7.154
Area

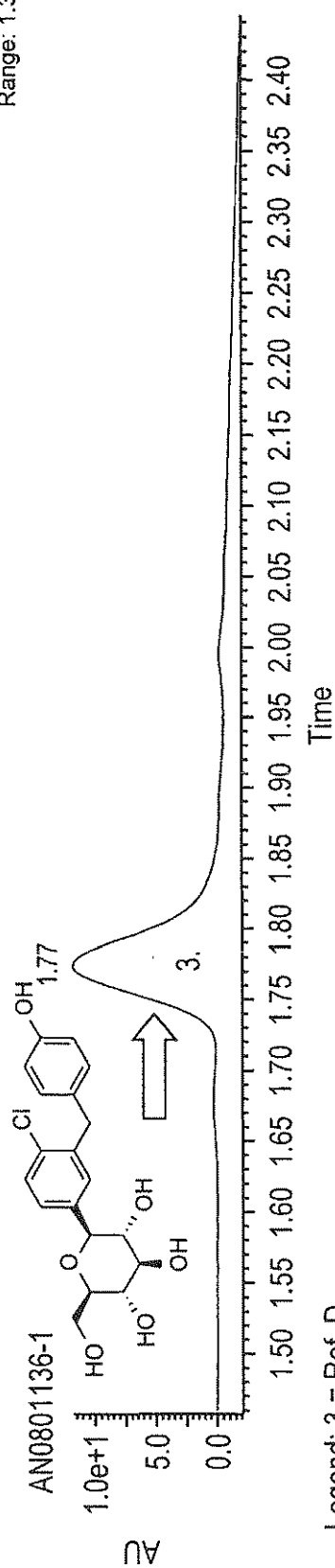
Time	Height	Area	Area%
1.77	4709900	235863.05	52.14
2.25	6219474	216528.45	47.86



6/11

FIG. 3D

3: Diode Array
Range: 1.388e+1



7/11

FIG. 4A

Metabolic pathway for Compound (9), Ref. A, and Ref. D

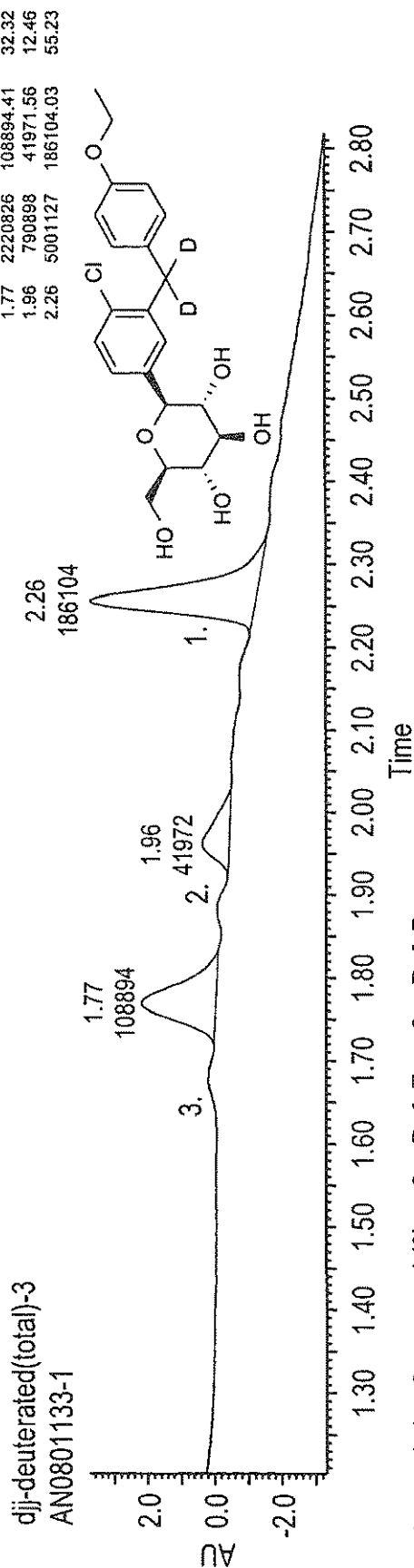
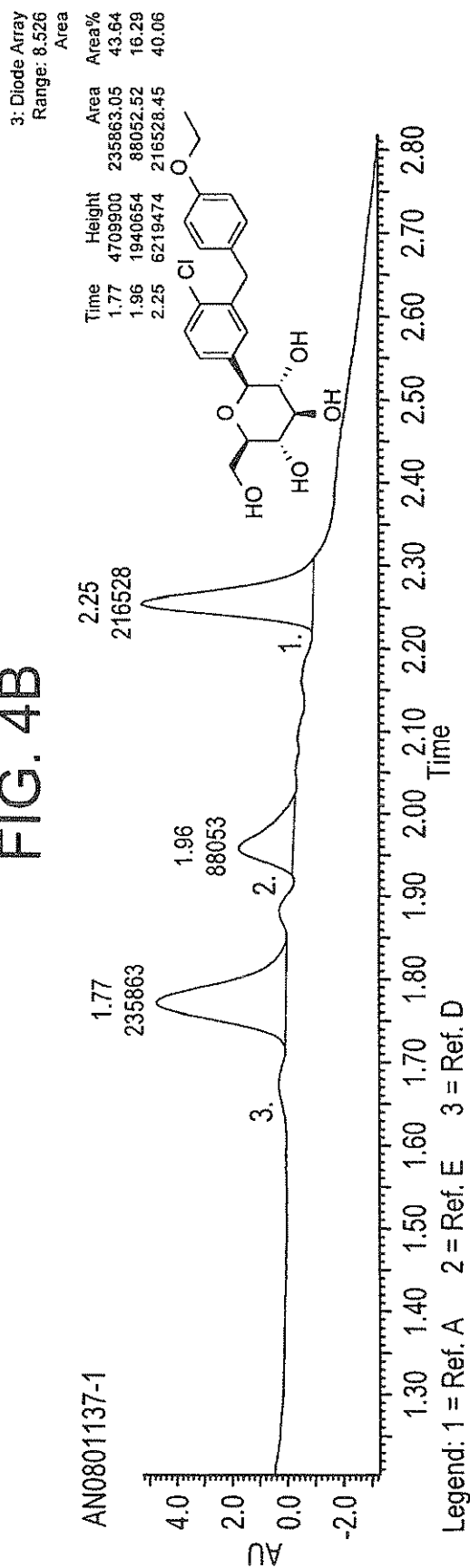
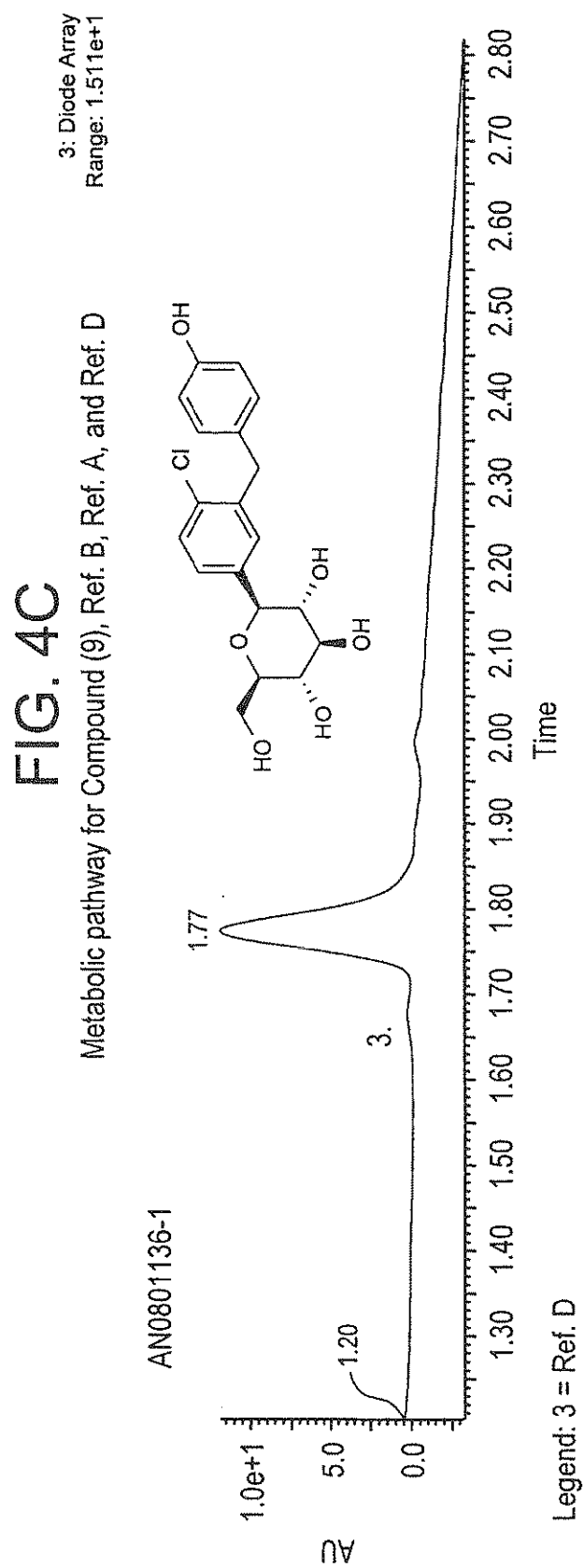


FIG. 4B

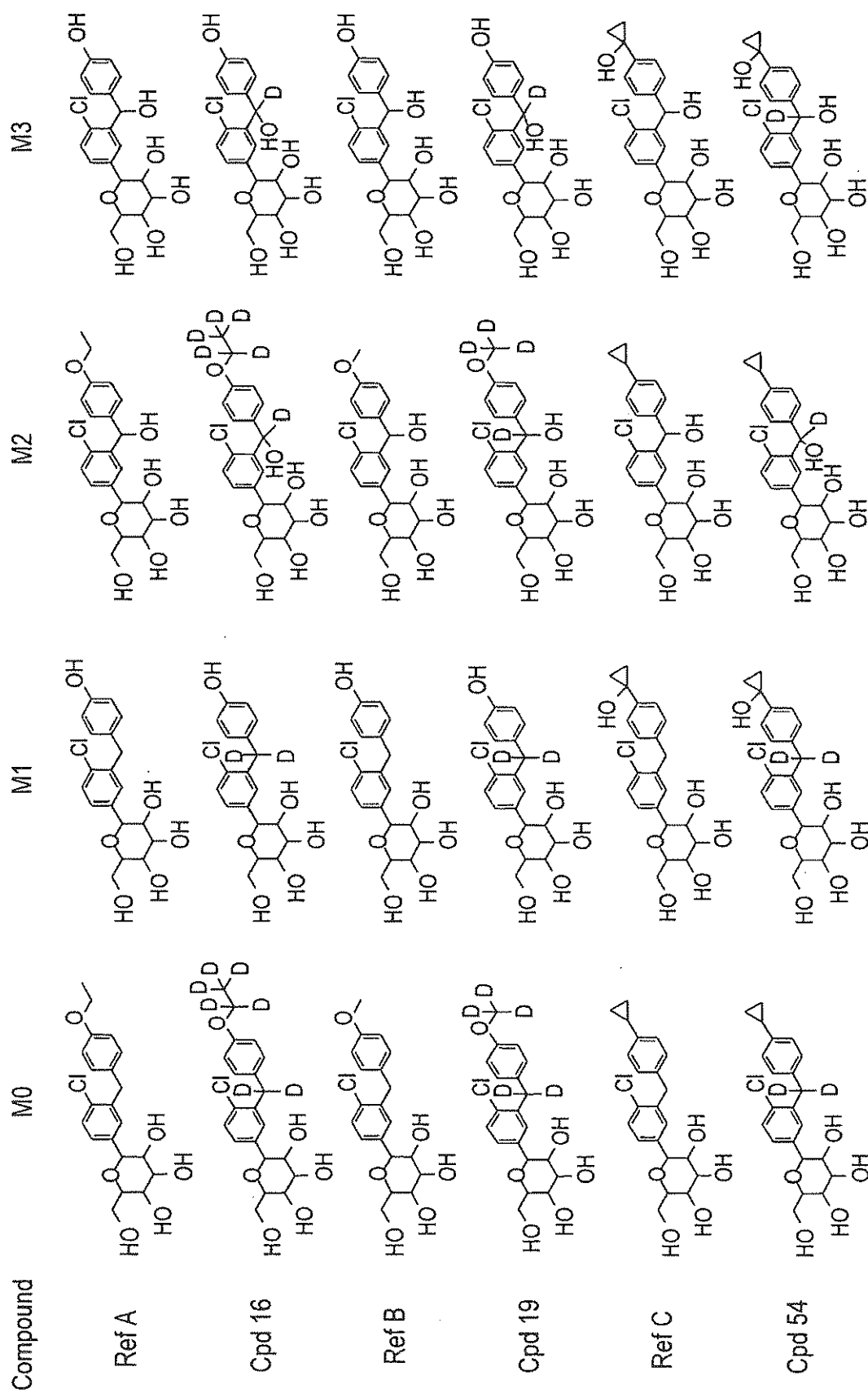


8/11



9/11

FIG. 5



10/11

FIG. 6

Based on chromatographic peak area

	Ref A	Cpd 16	Ratio
M0	1.10E+06	1.30E+06	1 : 1.2
M1	4.26E+05	2.33E+05	1.8 : 1
M2	2.15E+06	3.38E+06	1 : 1.6
M3	8.68E+05	4.43E+05	2 : 1
	Ref B	Cpd 19	Ratio
M0	1.68E+06	1.67E+06	1 : 1
M1	3.09E+05	2.85E+05	1.1 : 1
M2	1.84E+06	1.06E+06	1.7 : 1
M3	3.17E+05	3.10E+05	1 : 1
	Ref C	Cpd 54	Ratio
M0	2.24E+05	2.64E+05	1 : 1.2
M1	1.00E+06	1.26E+06	1 : 1.3
M2	2.76E+06	1.18E+06	2.3 : 1
M3	9.08E+05	4.54E+05	2 : 1

Based on mass response

	Ref A	Cpd 16	Ratio
M0	5.29E+05	7.42E+05	1 : 1.4
M1	8.88E+05	3.88E+05	2.3 : 1
M2	3.30E+05	2.14E+05	1.5 : 1
M3	1.12E+05	3.81E+04	3.0 : 1
	Ref B	Cpd 19	Ratio
M0	2.07E+06	2.06E+06	1 : 1
M1	9.91E+05	3.70E+05	
M2			
M3	3.20E+04	1.94E+04	1.6 : 1
	Ref C	Cpd 54	Ratio
M0	6.96E+04	1.08E+05	1 : 1.6
M1	6.35E+05	7.13E+05	1 : 1.1
M2	1.62E+05	7.50E+04	2.1 : 1
M3	2.33E+04	1.27E+05	1 : 5.5

11/11

FIG. 7

LC/MS mass spectral data and the corresponding retention time for six compounds and their metabolites in rat urine

Compound	M0 [M+Na] ⁺	M1 [M+NH ₄] ⁺ or [M+Na] ⁺ *	M2 [M-H ₂ O+H] ⁺	M3 [M-H ₂ O+H] ⁺
Ref A	431 (17.7 min)	398 (13.9 min)	407 (14.7 min)	379 (10.8 min)
Cpd 16	438 (17.6 min)	400 (13.5 min)	413 (14.7 min)	380 (10.7 min)
Ref B	417 (16.3 min)	398 (13.5 min)	393 (13.4 min)	379 (10.7 min)
Cpd 19	422 (16.3 min)	400 (13.5 min)	397 (13.4 min)	380 (10.8 min)
Ref C	427 (19.0 min)	443 (14.7 min)	403 (15.9 min)	419 (12.3 min)
Cpd 54	429 (19.0 min)	445 (14.6 min)	404 (15.9 min)	420 (12.1 min)

* The base peak is [M+Na]⁺ for Ref C and Cpd 54