

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR081122\
 Data File : PR055872.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Aug 2022 12:40
 Operator : AJ\MA
 Sample : N4015-01
 Misc : MDL 25 PPB
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 10 14:53:08 2022
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR081022CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Aug 10 07:34:29 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
1)	SA Tetrachlo...	3.631	2.901	104.0E6	47811773	22.088	21.491
2)	SA Decachlor...	9.523	8.118	73889268	73931803	44.375	42.416
Target Compounds							
3)	L1 AR-1016-1	4.852	4.009	3391505	1589482	27.372	21.653
4)	L1 AR-1016-2	4.874	4.026	4844009	2311511	27.701	22.696
5)	L1 AR-1016-3	4.938	4.203	2933472	1247881	27.284	22.655
6)	L1 AR-1016-4	5.040	4.254	2442999	988537	28.445	23.843
7)	L1 AR-1016-5	5.355	4.468	2253697	1230854	28.759	22.393
8)	L2 AR-1221-1	3.847	3.123	363041	213309	6.920	8.723 #
9)	L2 AR-1221-2	3.941	3.203	1843145	717388	50.986	42.207
10)	L2 AR-1221-3	4.019	3.286	2278163	992393	19.767	17.199
11)	L3 AR-1232-1	4.019	3.286	2278163	992393	22.789	20.104
12)	L3 AR-1232-2	4.566	4.026	5098369	2311511	106.080	49.841 #
13)	L3 AR-1232-3	4.874	4.203	4844009	1247881	58.696	51.540
14)	L3 AR-1232-4	5.040	4.295	2442999	1155656	61.064	55.770
15)	L3 AR-1232-5	5.143	4.468	1907064	1230854	66.325	53.395
16)	L4 AR-1242-1	4.852	4.009	3391505	1589482	31.300	26.289
17)	L4 AR-1242-2	4.874	4.026	4844009	2311511	32.000	27.392
18)	L4 AR-1242-3	4.938	4.203	2933472	1247881	31.192	27.515
19)	L4 AR-1242-4	5.040	4.295	2442999	1155656	32.809	27.346
20)	L4 AR-1242-5	5.829	4.834	559647	1318546	8.660	24.133 #
21)	L5 AR-1248-1	4.852	4.009	3391505	1589482	42.052	35.082
22)	L5 AR-1248-2	5.143	4.254	1907064	988537	19.324	16.286
23)	L5 AR-1248-3	5.355	4.295	2253697	1155656	20.315	18.595
24)	L5 AR-1248-4	5.790	4.468	443898	1230854	4.061	16.404 #
25)	L5 AR-1248-5	5.829	4.877	559647	559599	5.228	7.268 #
26)	L6 AR-1254-1	5.759	4.834	1915079	1318546	17.620	11.687 #
27)	L6 AR-1254-2	5.997	4.993	1413157	1033950	8.896	10.618
28)	L6 AR-1254-3	6.387	5.430	965183	1781766	6.025	11.224 #
29)	L6 AR-1254-4	6.700	5.655	368018	173135	3.136	1.697 #
30)	L6 AR-1254-5	7.154	6.098	4278522	3285466	35.418	22.839 #
31)	L7 AR-1260-1	6.569	5.551	3239687	2651312	28.546	24.742
32)	L7 AR-1260-2	6.851	5.755	3786135	3083894	29.063	23.831
33)	L7 AR-1260-3	7.242	5.912	2736180	2616596	28.807	21.332 #
34)	L7 AR-1260-4	7.484	6.414	2969441	2413838	27.281	23.455
35)	L7 AR-1260-5	7.823	6.679	5761920	5546201	27.942	23.039
36)	L8 AR-1262-1	7.242	6.142	2736180	2476116	19.202	17.221
37)	L8 AR-1262-2	7.823	6.679	5761920	5546201	23.531	20.998
38)	L8 AR-1262-3	8.136	6.982	3521923	1927360	20.811	18.557
39)	L8 AR-1262-4	8.215	7.048	988263	4185866	11.626	21.326 #
40)	L8 AR-1262-5	8.836	7.586	2168295	1312458	23.510	13.973 #
41)	L9 AR-1268-1	8.136	6.982	3521923	1927360	12.153	6.161 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR081122\
 Data File : PR055872.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 10 Aug 2022 12:40
 Operator : AJ\MA
 Sample : N4015-01
 Misc : MDL 25 PPB
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 10 14:53:08 2022
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR081022CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Aug 10 07:34:29 2022
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
42) L9	AR-1268-2	8.215	7.048	988263	4185866	3.691	14.750 #
43) L9	AR-1268-3	8.435	7.269	206274	193531	0.910	0.794
44) L9	AR-1268-4	8.836	7.586	2168295	1312458	20.700	12.213 #
45) L9	AR-1268-5	9.217	7.879	1311235	796732	1.768	1.015 #

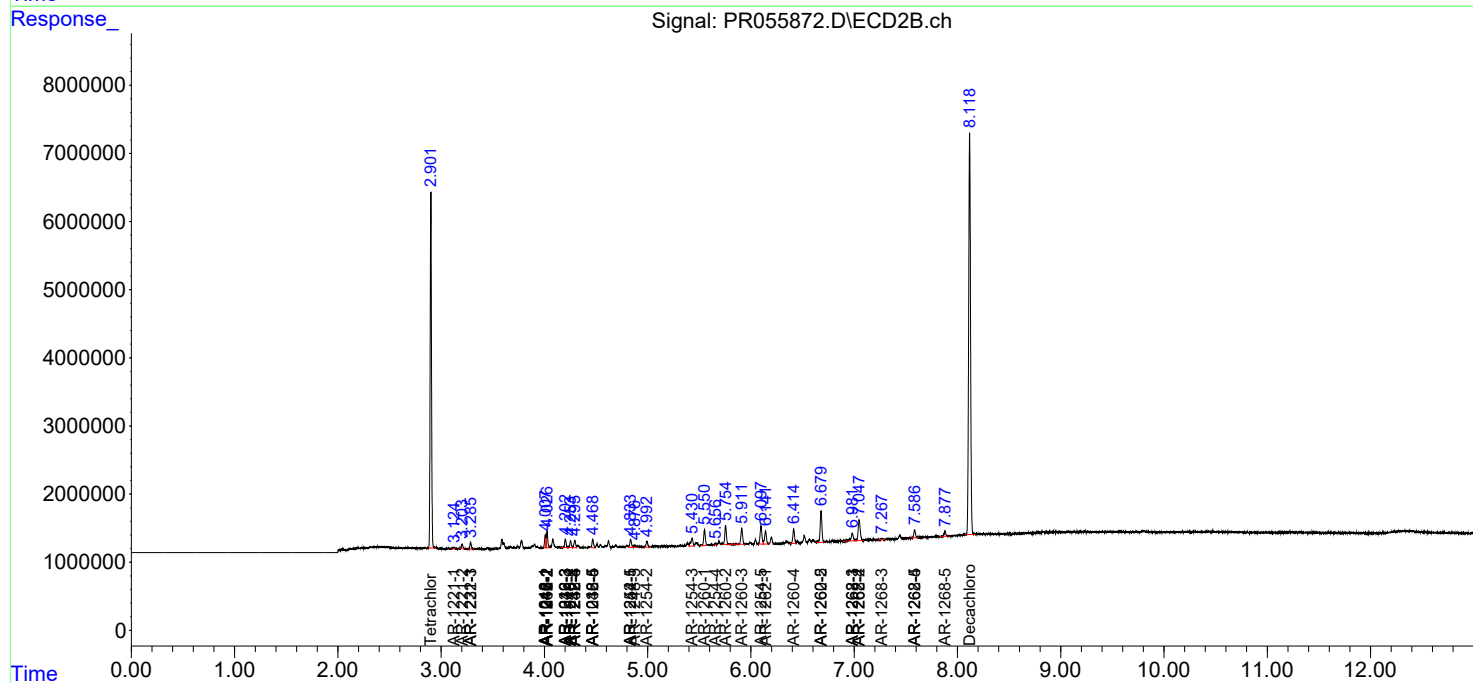
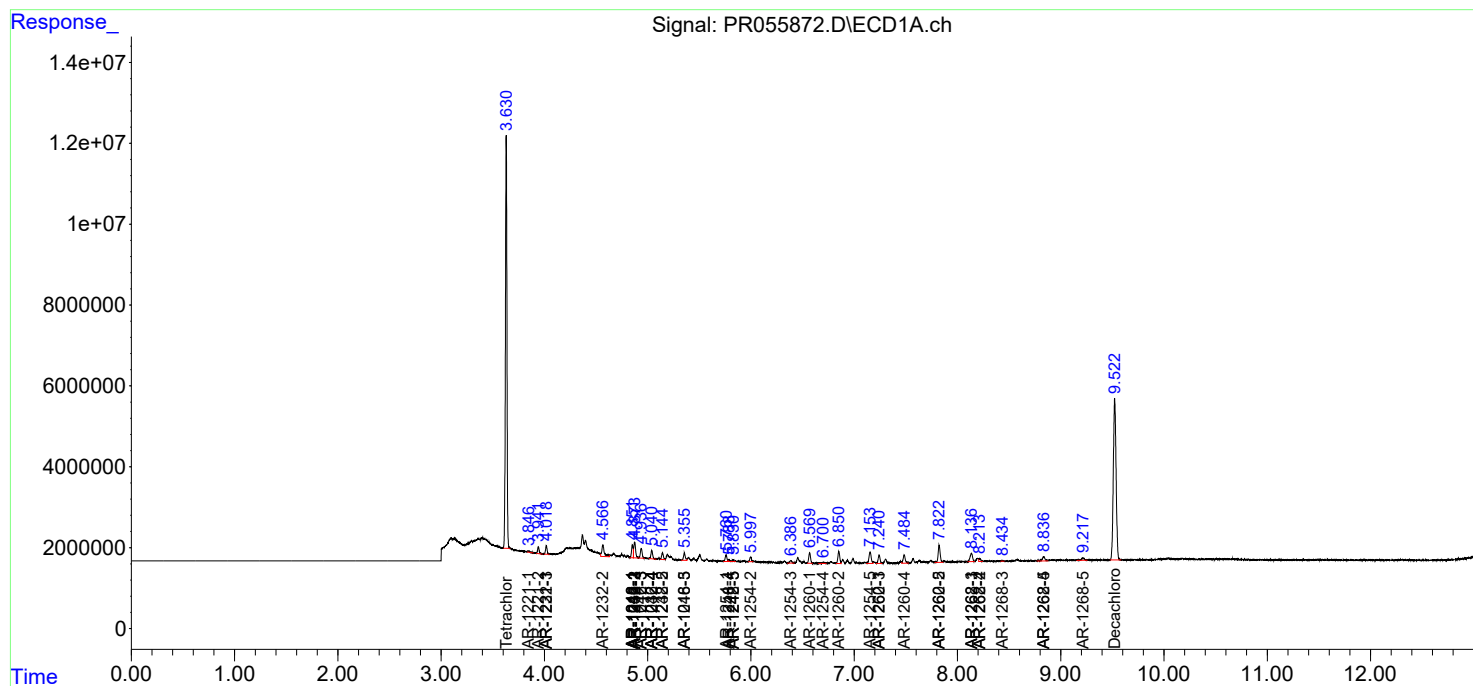
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

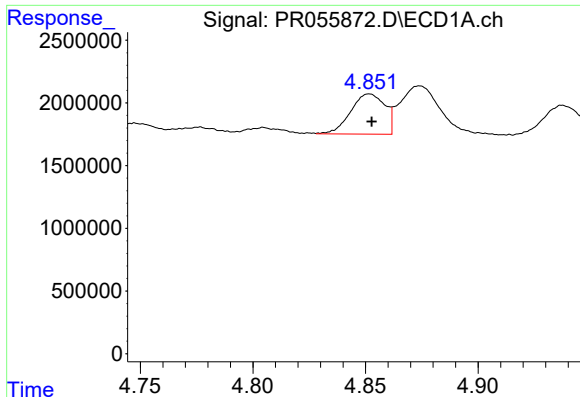
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR081122\
Data File : PR055872.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Aug 2022 12:40
Operator : AJ\MA
Sample : N4015-01
Misc : MDL 25 PPB
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 10 14:53:08 2022
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR081022CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Aug 10 07:34:29 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

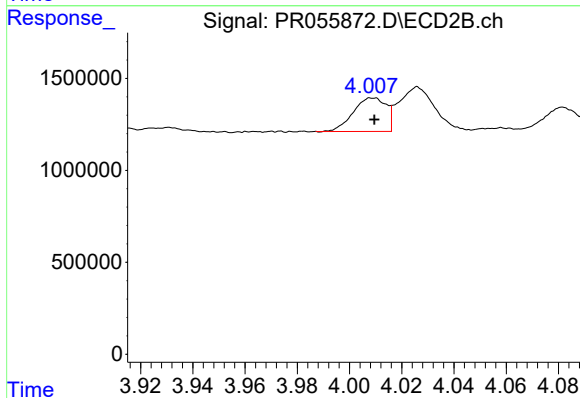




#3 AR-1016-1

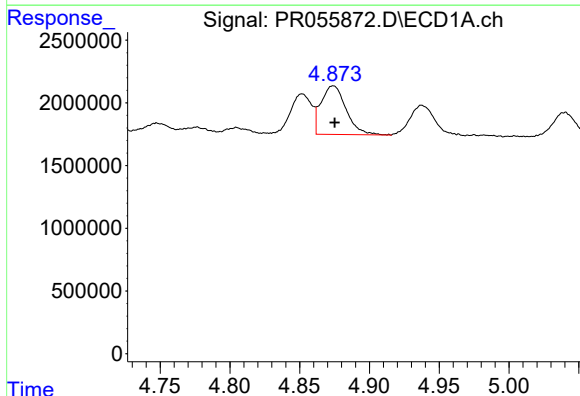
R.T.: 4.852 min
Delta R.T.: 0.000 min
Response: 3391505
Conc: 27.37 ng/ml

Instrument :
ECD_R
ClientSampleId :



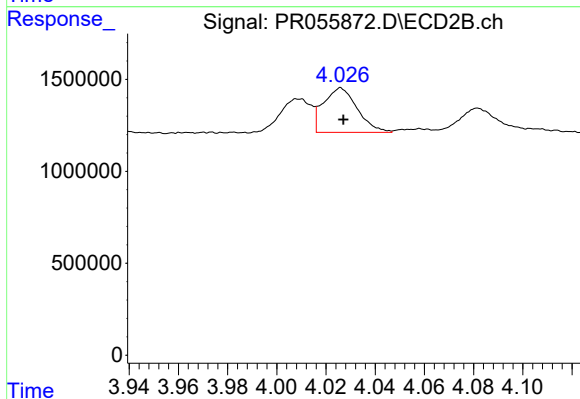
#3 AR-1016-1

R.T.: 4.009 min
Delta R.T.: 0.000 min
Response: 1589482
Conc: 21.65 ng/ml



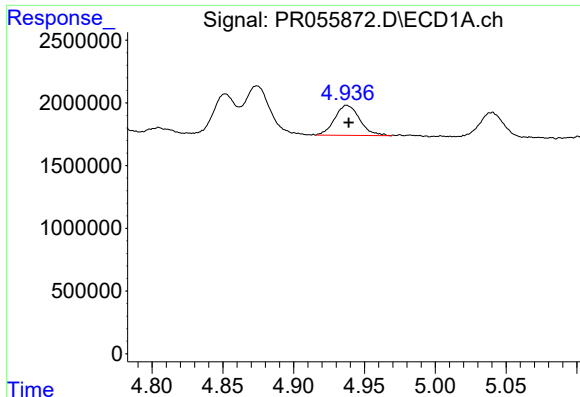
#4 AR-1016-2

R.T.: 4.874 min
Delta R.T.: -0.001 min
Response: 4844009
Conc: 27.70 ng/ml



#4 AR-1016-2

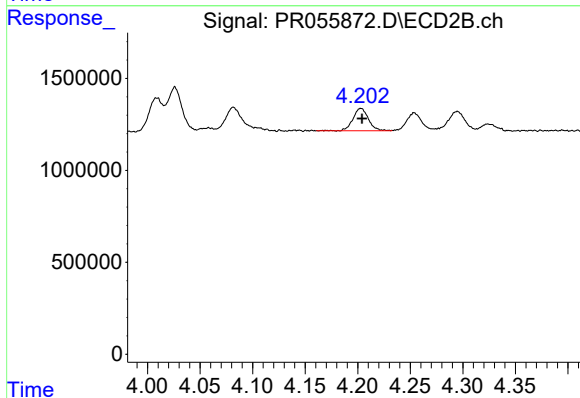
R.T.: 4.026 min
Delta R.T.: -0.001 min
Response: 2311511
Conc: 22.70 ng/ml



#5 AR-1016-3

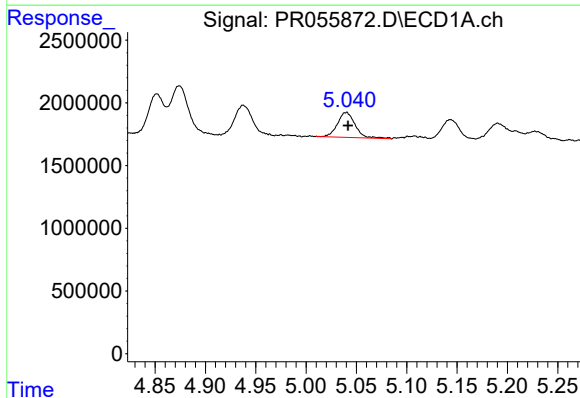
R.T.: 4.938 min
Delta R.T.: -0.001 min
Response: 2933472
Conc: 27.28 ng/ml

Instrument :
ECD_R
ClientSampleId :



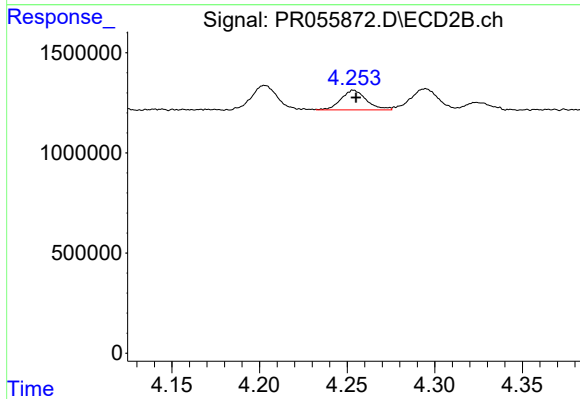
#5 AR-1016-3

R.T.: 4.203 min
Delta R.T.: -0.001 min
Response: 1247881
Conc: 22.66 ng/ml



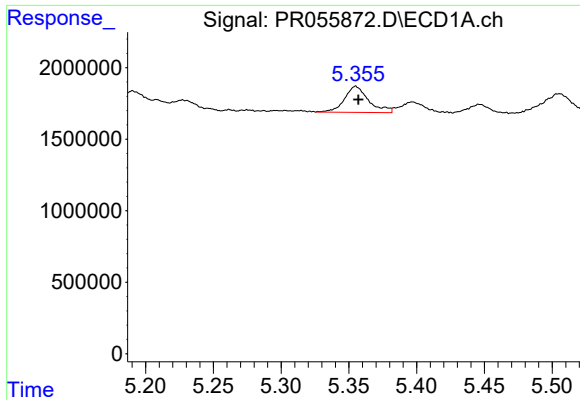
#6 AR-1016-4

R.T.: 5.040 min
Delta R.T.: -0.002 min
Response: 2442999
Conc: 28.45 ng/ml



#6 AR-1016-4

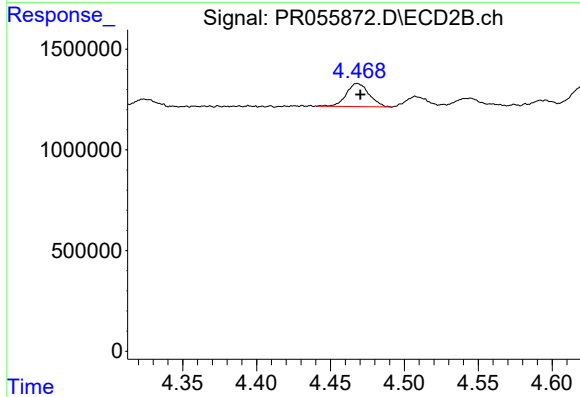
R.T.: 4.254 min
Delta R.T.: -0.001 min
Response: 988537
Conc: 23.84 ng/ml



#7 AR-1016-5

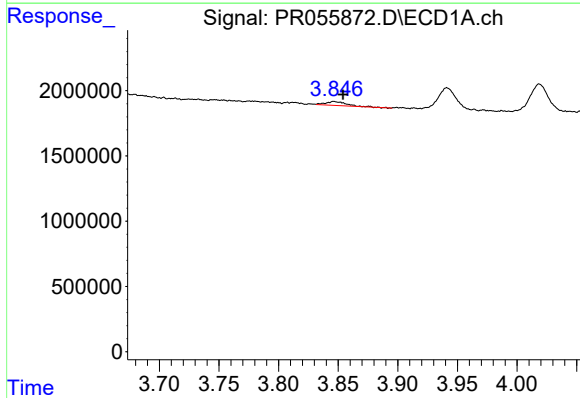
R.T.: 5.355 min
Delta R.T.: -0.002 min
Response: 2253697
Conc: 28.76 ng/ml

Instrument :
ECD_R
ClientSampleId :



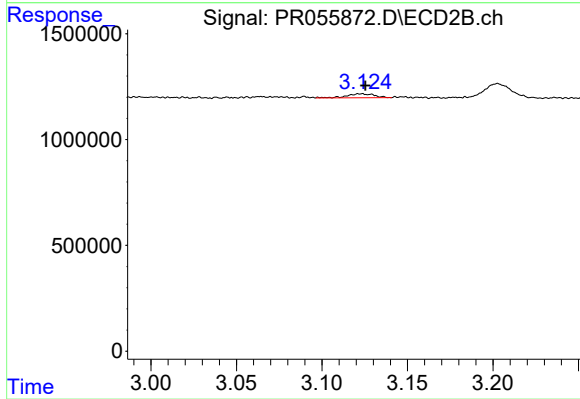
#7 AR-1016-5

R.T.: 4.468 min
Delta R.T.: -0.002 min
Response: 1230854
Conc: 22.39 ng/ml



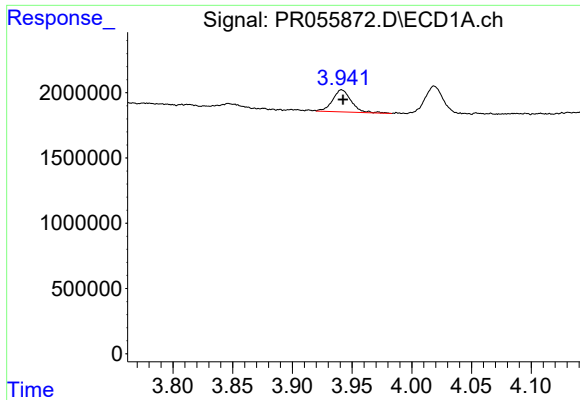
#8 AR-1221-1

R.T.: 3.847 min
Delta R.T.: -0.008 min
Response: 363041
Conc: 6.92 ng/ml



#8 AR-1221-1

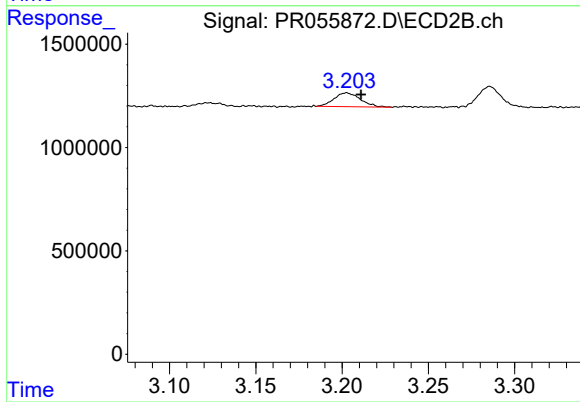
R.T.: 3.123 min
Delta R.T.: -0.003 min
Response: 213309
Conc: 8.72 ng/ml



#9 AR-1221-2

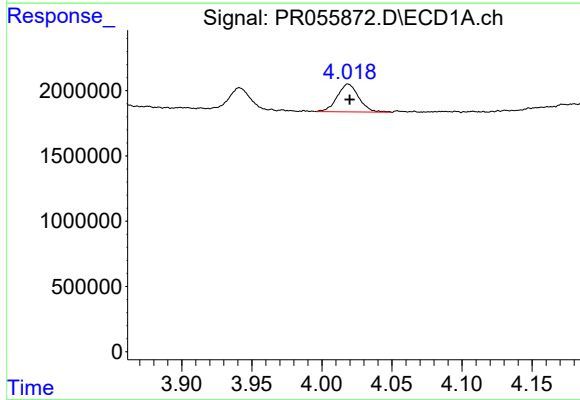
R.T.: 3.941 min
Delta R.T.: -0.001 min
Response: 1843145
Conc: 50.99 ng/ml

Instrument :
ECD_R
ClientSampleId :



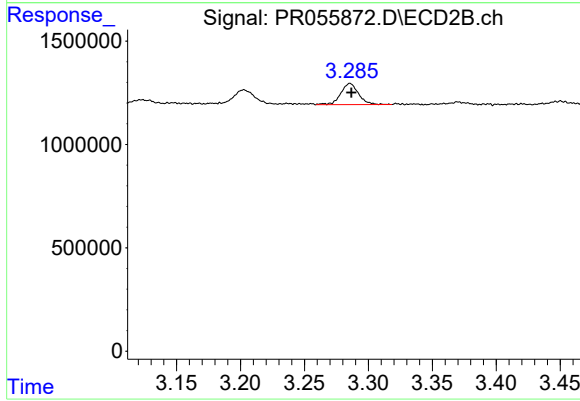
#9 AR-1221-2

R.T.: 3.203 min
Delta R.T.: -0.008 min
Response: 717388
Conc: 42.21 ng/ml



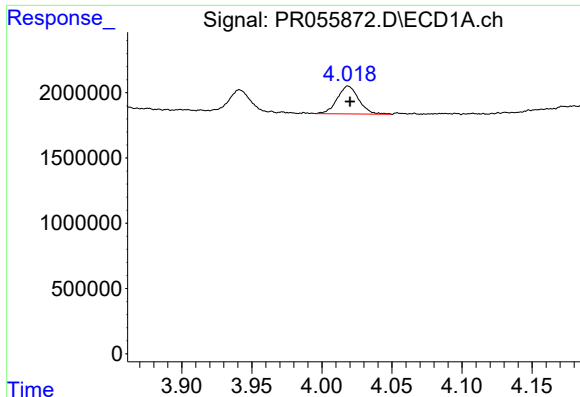
#10 AR-1221-3

R.T.: 4.019 min
Delta R.T.: -0.001 min
Response: 2278163
Conc: 19.77 ng/ml



#10 AR-1221-3

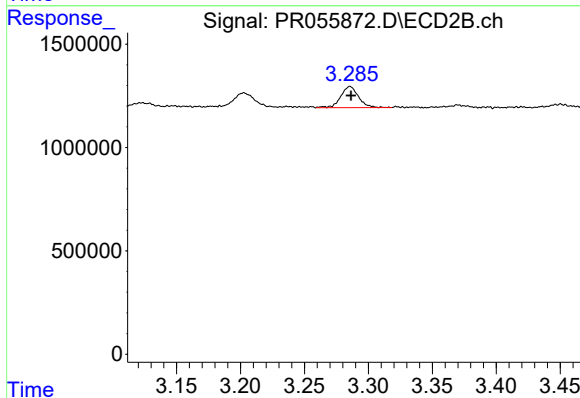
R.T.: 3.286 min
Delta R.T.: -0.001 min
Response: 992393
Conc: 17.20 ng/ml



#11 AR-1232-1

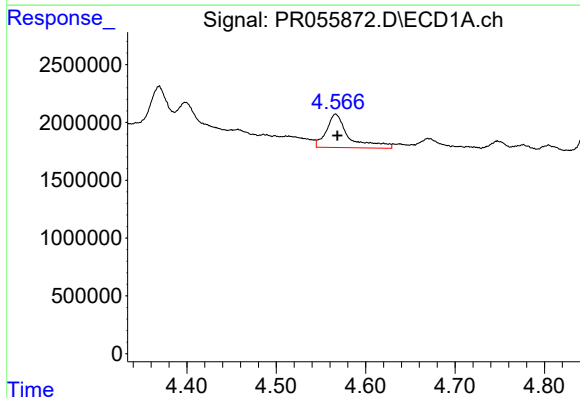
R.T.: 4.019 min
Delta R.T.: -0.001 min
Response: 2278163
Conc: 22.79 ng/ml

Instrument :
ECD_R
ClientSampleId :



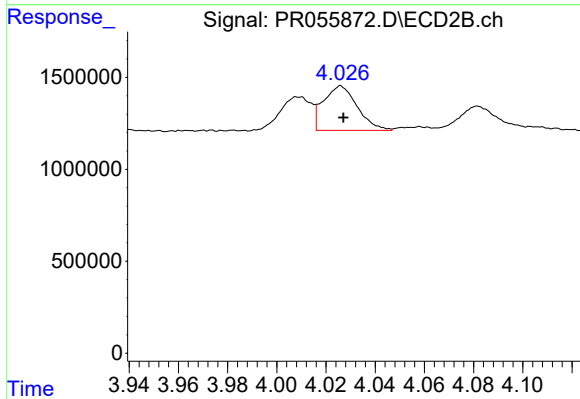
#11 AR-1232-1

R.T.: 3.286 min
Delta R.T.: 0.000 min
Response: 992393
Conc: 20.10 ng/ml



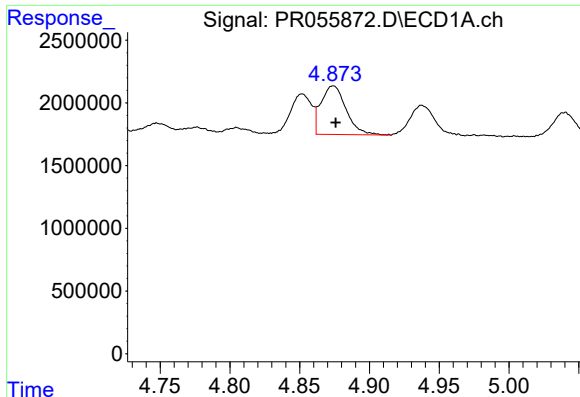
#12 AR-1232-2

R.T.: 4.566 min
Delta R.T.: -0.002 min
Response: 5098369
Conc: 106.08 ng/ml



#12 AR-1232-2

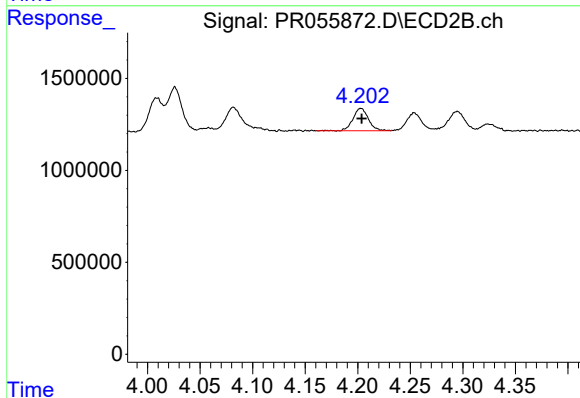
R.T.: 4.026 min
Delta R.T.: -0.001 min
Response: 2311511
Conc: 49.84 ng/ml



#13 AR-1232-3

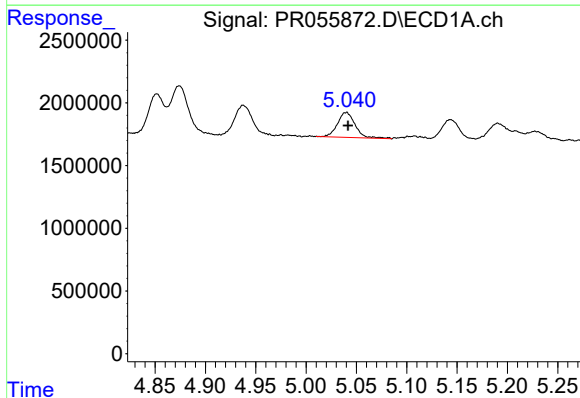
R.T.: 4.874 min
Delta R.T.: -0.002 min
Response: 4844009
Conc: 58.70 ng/ml

Instrument :
ECD_R
ClientSampleId :



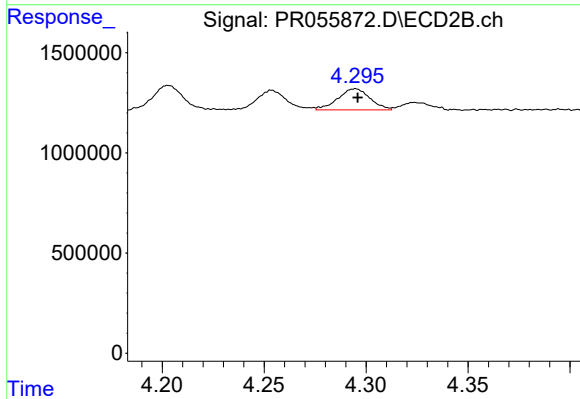
#13 AR-1232-3

R.T.: 4.203 min
Delta R.T.: 0.000 min
Response: 1247881
Conc: 51.54 ng/ml



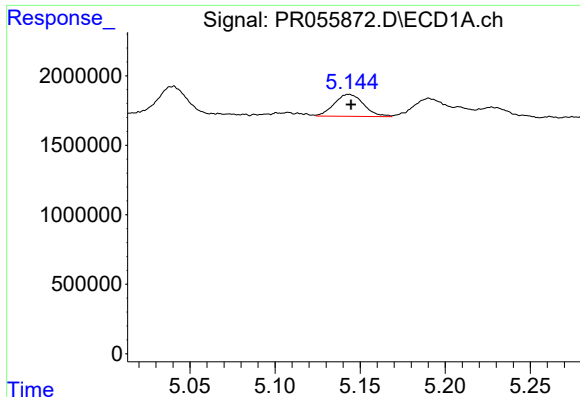
#14 AR-1232-4

R.T.: 5.040 min
Delta R.T.: -0.002 min
Response: 2442999
Conc: 61.06 ng/ml



#14 AR-1232-4

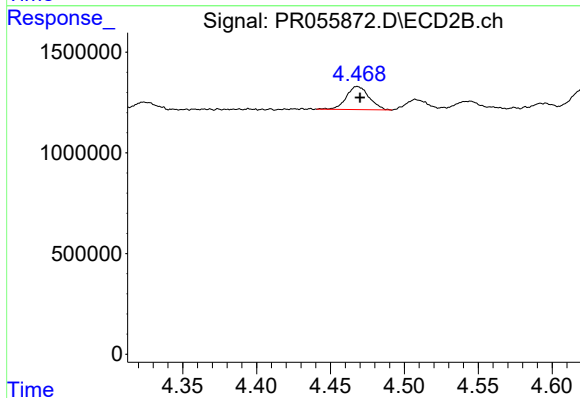
R.T.: 4.295 min
Delta R.T.: -0.001 min
Response: 1155656
Conc: 55.77 ng/ml



#15 AR-1232-5

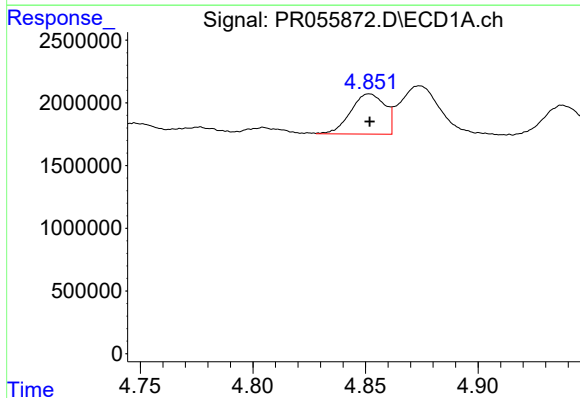
R.T.: 5.143 min
Delta R.T.: -0.001 min
Response: 1907064
Conc: 66.33 ng/ml

Instrument :
ECD_R
ClientSampleId :



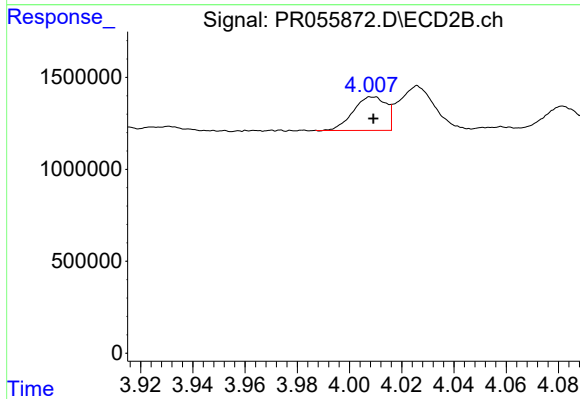
#15 AR-1232-5

R.T.: 4.468 min
Delta R.T.: -0.002 min
Response: 1230854
Conc: 53.39 ng/ml



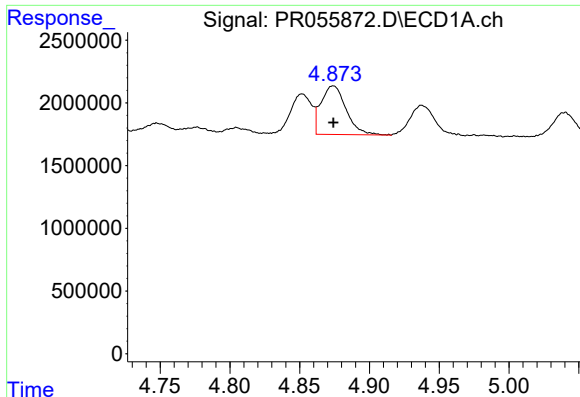
#16 AR-1242-1

R.T.: 4.852 min
Delta R.T.: 0.000 min
Response: 3391505
Conc: 31.30 ng/ml



#16 AR-1242-1

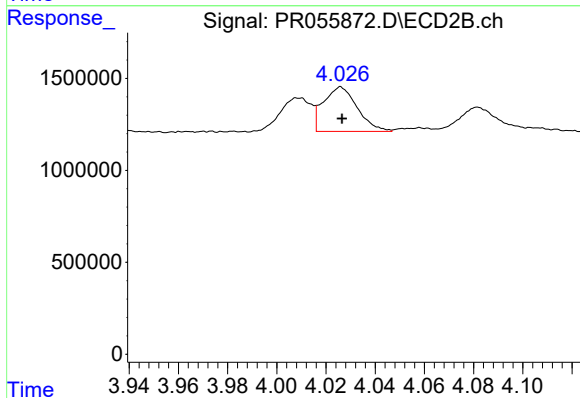
R.T.: 4.009 min
Delta R.T.: 0.000 min
Response: 1589482
Conc: 26.29 ng/ml



#17 AR-1242-2

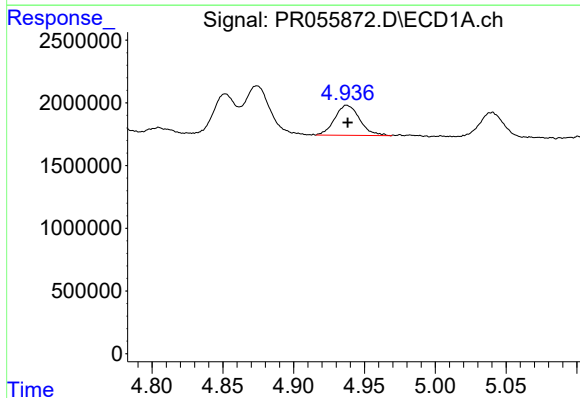
R.T.: 4.874 min
Delta R.T.: 0.000 min
Response: 4844009
Conc: 32.00 ng/ml

Instrument :
ECD_R
ClientSampleId :



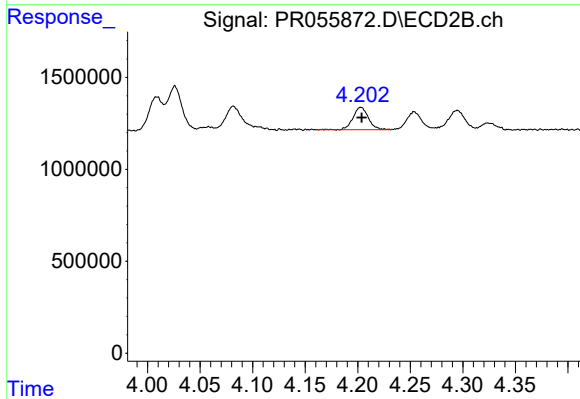
#17 AR-1242-2

R.T.: 4.026 min
Delta R.T.: 0.000 min
Response: 2311511
Conc: 27.39 ng/ml



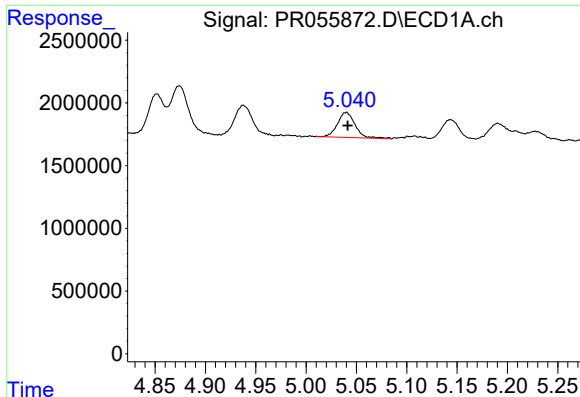
#18 AR-1242-3

R.T.: 4.938 min
Delta R.T.: 0.000 min
Response: 2933472
Conc: 31.19 ng/ml



#18 AR-1242-3

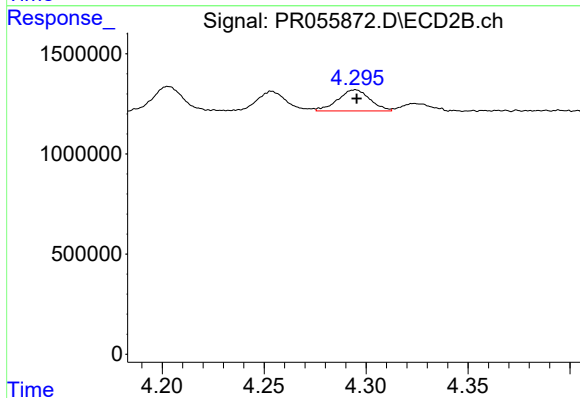
R.T.: 4.203 min
Delta R.T.: 0.000 min
Response: 1247881
Conc: 27.52 ng/ml



#19 AR-1242-4

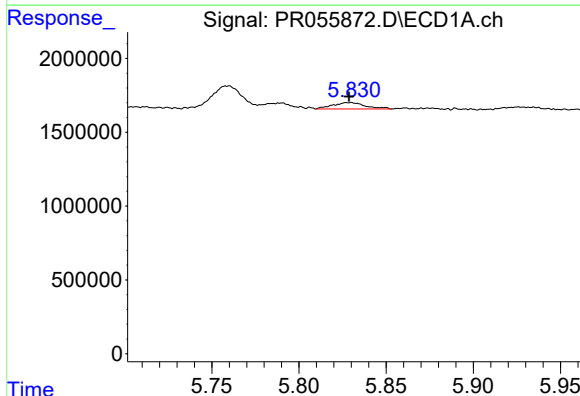
R.T.: 5.040 min
Delta R.T.: -0.001 min
Response: 2442999
Conc: 32.81 ng/ml

Instrument :
ECD_R
ClientSampleId :



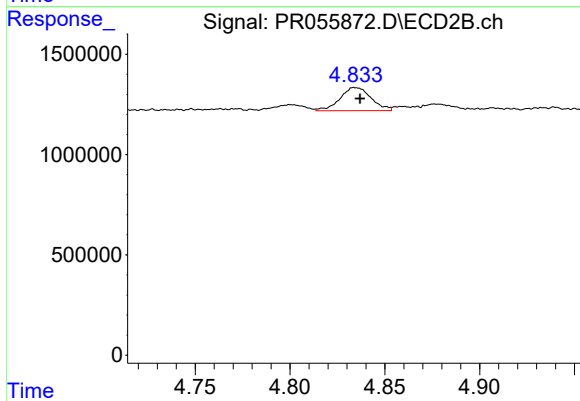
#19 AR-1242-4

R.T.: 4.295 min
Delta R.T.: 0.000 min
Response: 1155656
Conc: 27.35 ng/ml



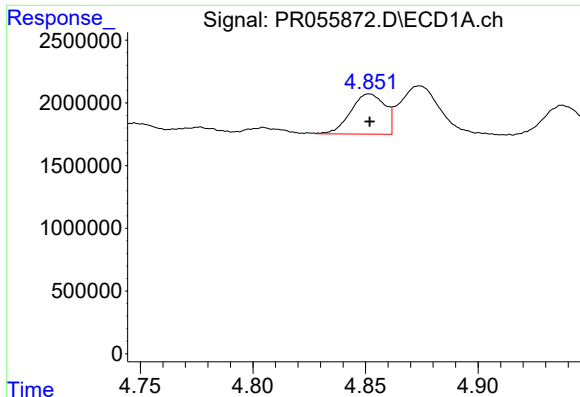
#20 AR-1242-5

R.T.: 5.829 min
Delta R.T.: 0.000 min
Response: 559647
Conc: 8.66 ng/ml



#20 AR-1242-5

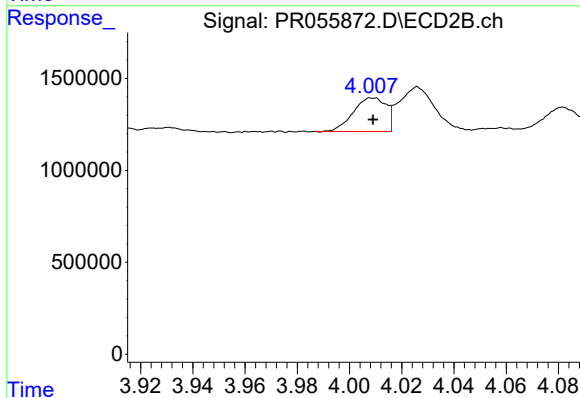
R.T.: 4.834 min
Delta R.T.: -0.002 min
Response: 1318546
Conc: 24.13 ng/ml



#21 AR-1248-1

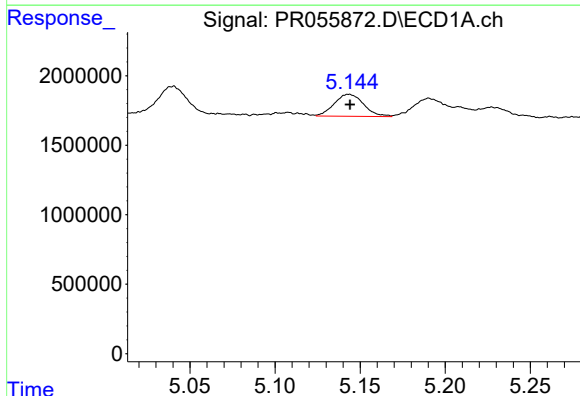
R.T.: 4.852 min
Delta R.T.: 0.000 min
Response: 3391505
Conc: 42.05 ng/ml

Instrument :
ECD_R
ClientSampleId :



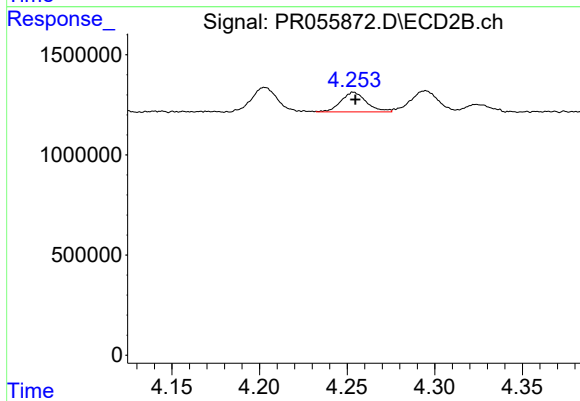
#21 AR-1248-1

R.T.: 4.009 min
Delta R.T.: 0.000 min
Response: 1589482
Conc: 35.08 ng/ml



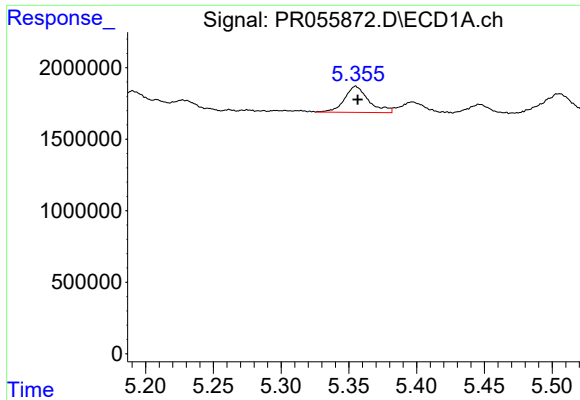
#22 AR-1248-2

R.T.: 5.143 min
Delta R.T.: 0.000 min
Response: 1907064
Conc: 19.32 ng/ml



#22 AR-1248-2

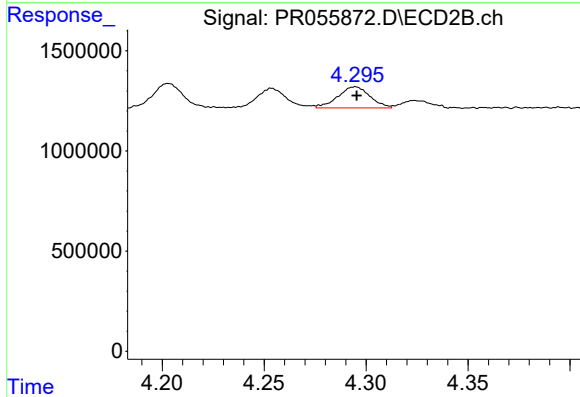
R.T.: 4.254 min
Delta R.T.: 0.000 min
Response: 988537
Conc: 16.29 ng/ml



#23 AR-1248-3

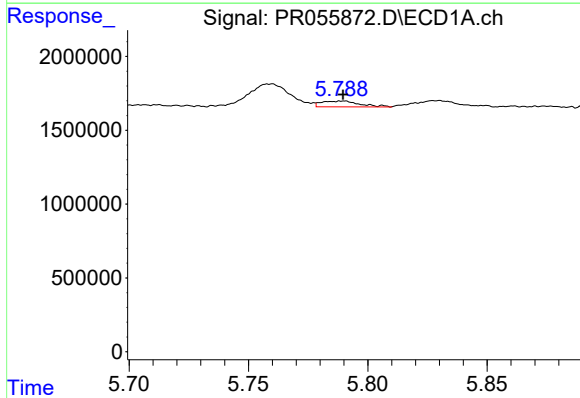
R.T.: 5.355 min
Delta R.T.: -0.001 min
Response: 2253697
Conc: 20.31 ng/ml

Instrument :
ECD_R
ClientSampleId :



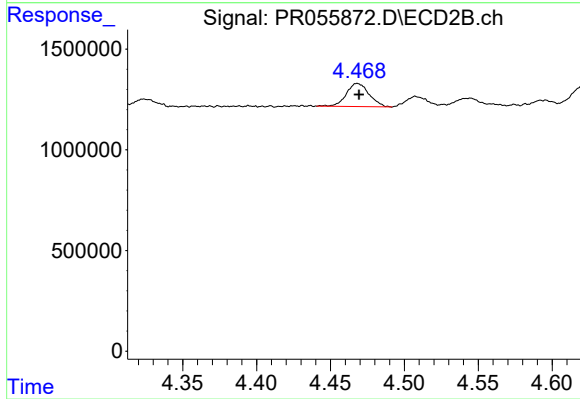
#23 AR-1248-3

R.T.: 4.295 min
Delta R.T.: 0.000 min
Response: 1155656
Conc: 18.59 ng/ml



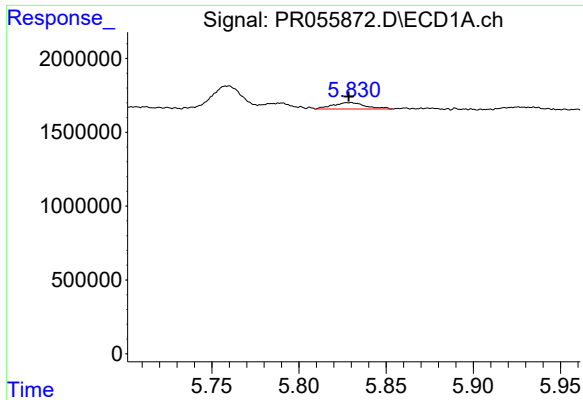
#24 AR-1248-4

R.T.: 5.790 min
Delta R.T.: 0.000 min
Response: 443898
Conc: 4.06 ng/ml



#24 AR-1248-4

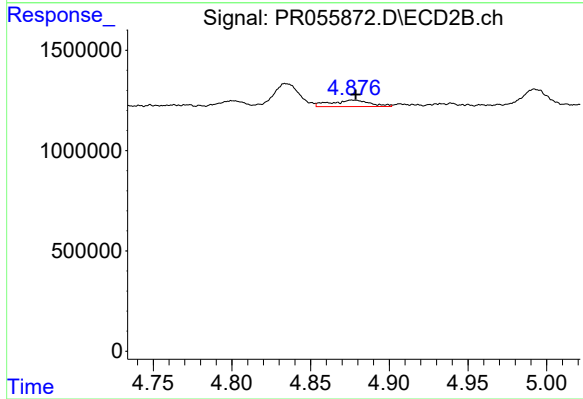
R.T.: 4.468 min
Delta R.T.: -0.001 min
Response: 1230854
Conc: 16.40 ng/ml



#25 AR-1248-5

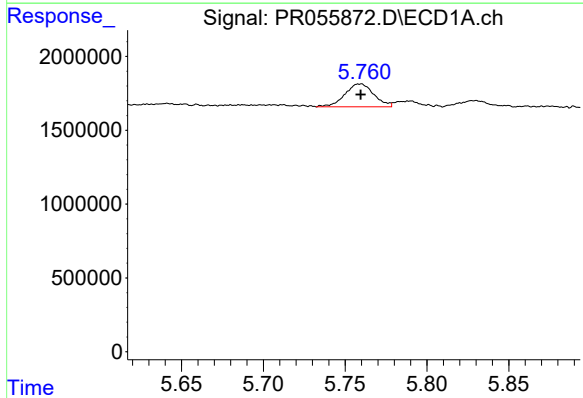
R.T.: 5.829 min
Delta R.T.: 0.000 min
Response: 559647
Conc: 5.23 ng/ml

Instrument :
ECD_R
ClientSampleId :



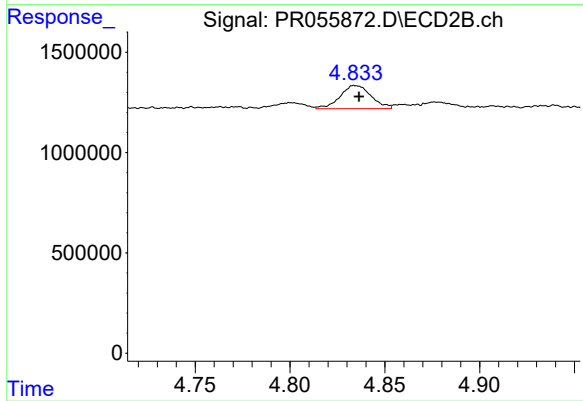
#25 AR-1248-5

R.T.: 4.877 min
Delta R.T.: -0.002 min
Response: 559599
Conc: 7.27 ng/ml



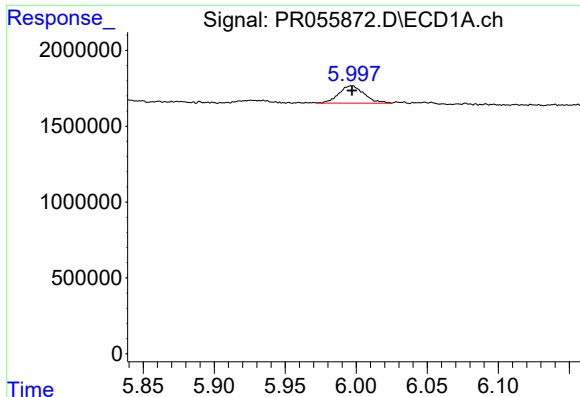
#26 AR-1254-1

R.T.: 5.759 min
Delta R.T.: 0.000 min
Response: 1915079
Conc: 17.62 ng/ml



#26 AR-1254-1

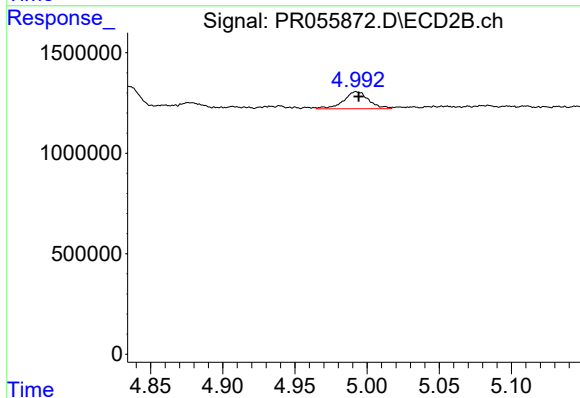
R.T.: 4.834 min
Delta R.T.: -0.002 min
Response: 1318546
Conc: 11.69 ng/ml



#27 AR-1254-2

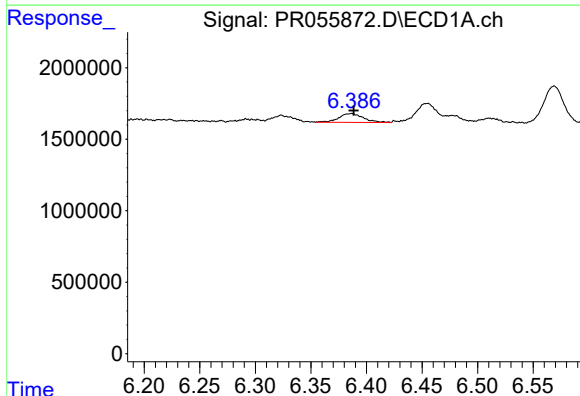
R.T.: 5.997 min
Delta R.T.: 0.000 min
Response: 1413157
Conc: 8.90 ng/ml

Instrument :
ECD_R
ClientSampleId :



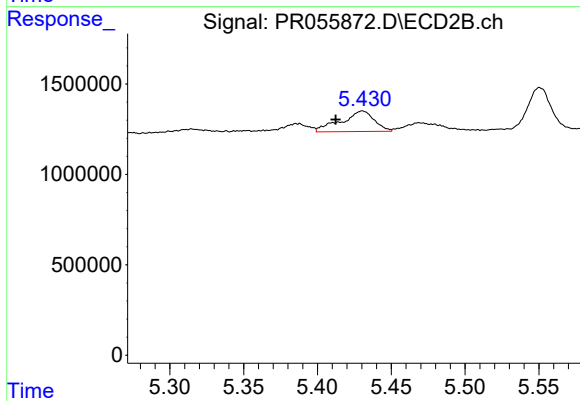
#27 AR-1254-2

R.T.: 4.993 min
Delta R.T.: -0.002 min
Response: 1033950
Conc: 10.62 ng/ml



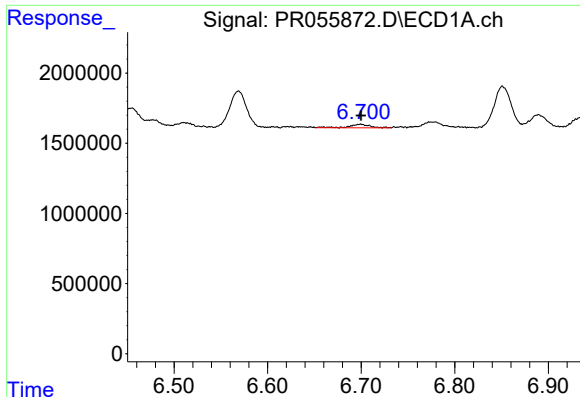
#28 AR-1254-3

R.T.: 6.387 min
Delta R.T.: -0.002 min
Response: 965183
Conc: 6.02 ng/ml



#28 AR-1254-3

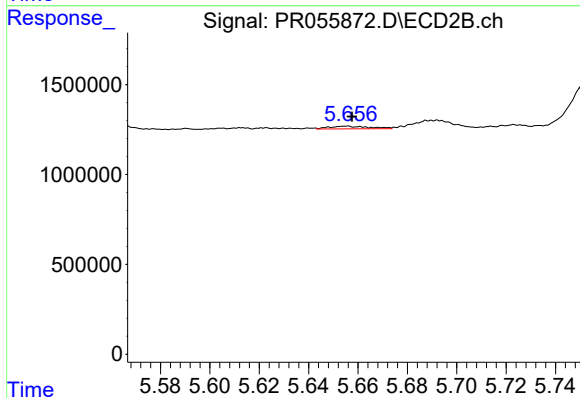
R.T.: 5.430 min
Delta R.T.: 0.018 min
Response: 1781766
Conc: 11.22 ng/ml



#29 AR-1254-4

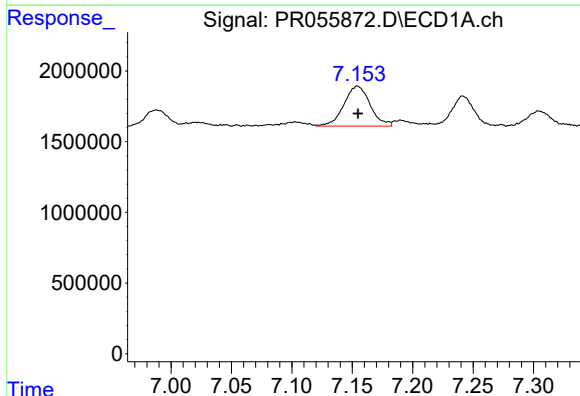
R.T.: 6.700 min
Delta R.T.: 0.000 min
Response: 368018
Conc: 3.14 ng/ml

Instrument :
ECD_R
ClientSampleId :



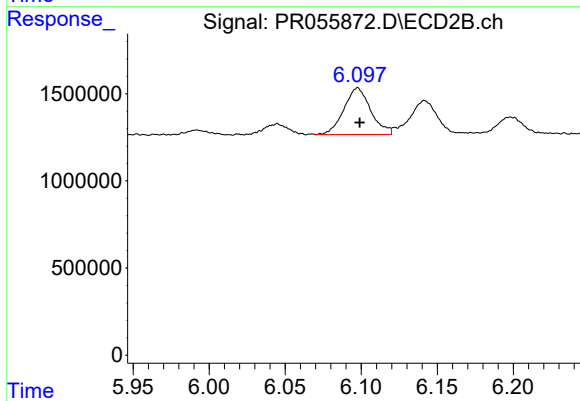
#29 AR-1254-4

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 173135
Conc: 1.70 ng/ml



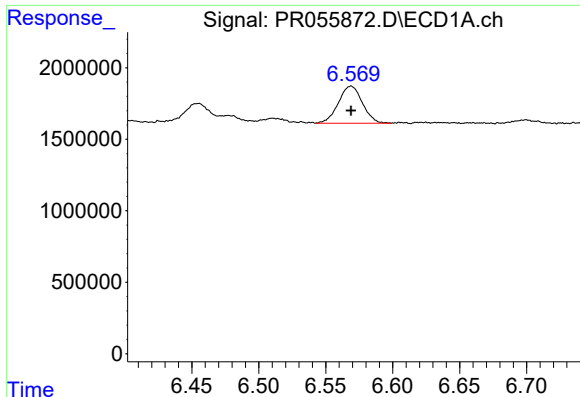
#30 AR-1254-5

R.T.: 7.154 min
Delta R.T.: 0.000 min
Response: 4278522
Conc: 35.42 ng/ml



#30 AR-1254-5

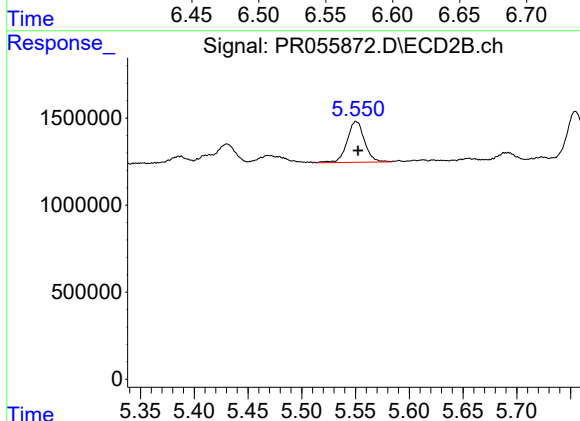
R.T.: 6.098 min
Delta R.T.: -0.001 min
Response: 3285466
Conc: 22.84 ng/ml



#31 AR-1260-1

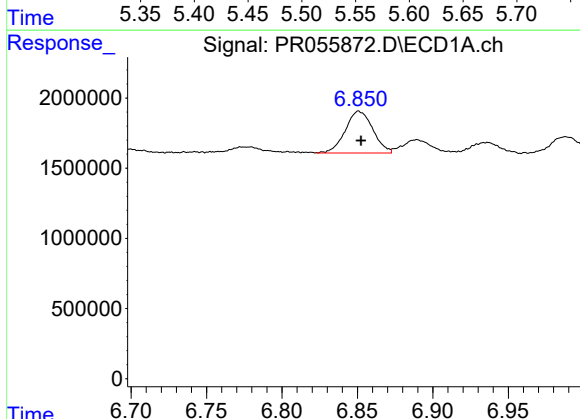
R.T.: 6.569 min
Delta R.T.: 0.000 min
Response: 3239687
Conc: 28.55 ng/ml

Instrument :
ECD_R
ClientSampleId :



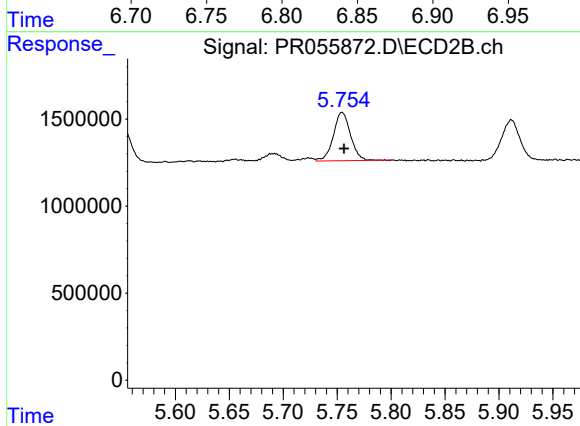
#31 AR-1260-1

R.T.: 5.551 min
Delta R.T.: -0.002 min
Response: 2651312
Conc: 24.74 ng/ml



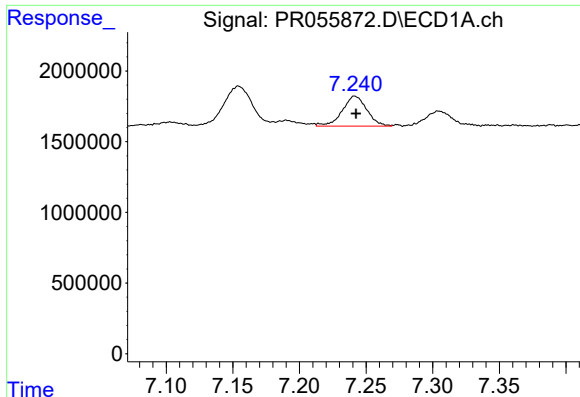
#32 AR-1260-2

R.T.: 6.851 min
Delta R.T.: -0.001 min
Response: 3786135
Conc: 29.06 ng/ml



#32 AR-1260-2

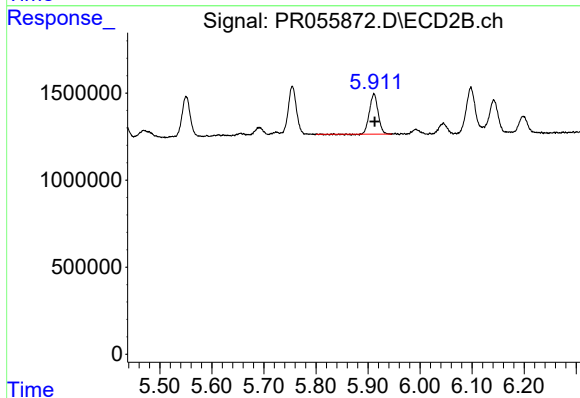
R.T.: 5.755 min
Delta R.T.: -0.002 min
Response: 3083894
Conc: 23.83 ng/ml



#33 AR-1260-3

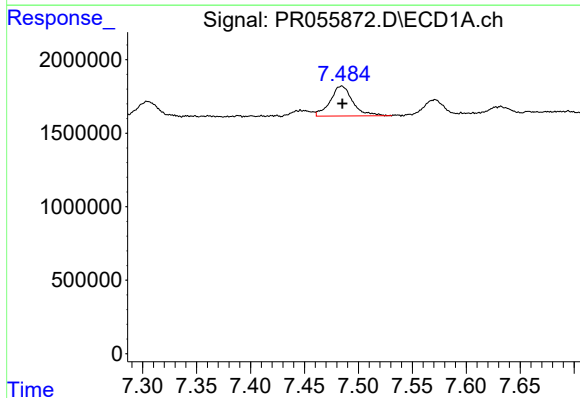
R.T.: 7.242 min
Delta R.T.: 0.000 min
Response: 2736180
Conc: 28.81 ng/ml

Instrument :
ECD_R
ClientSampleId :



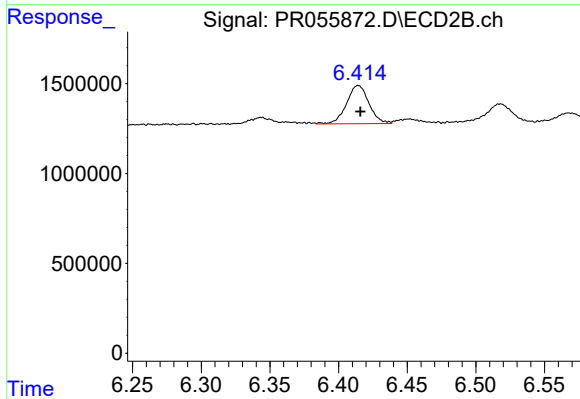
#33 AR-1260-3

R.T.: 5.912 min
Delta R.T.: -0.001 min
Response: 2616596
Conc: 21.33 ng/ml



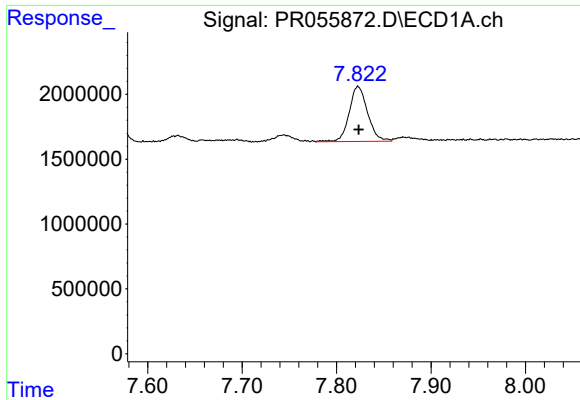
#34 AR-1260-4

R.T.: 7.484 min
Delta R.T.: 0.000 min
Response: 2969441
Conc: 27.28 ng/ml



#34 AR-1260-4

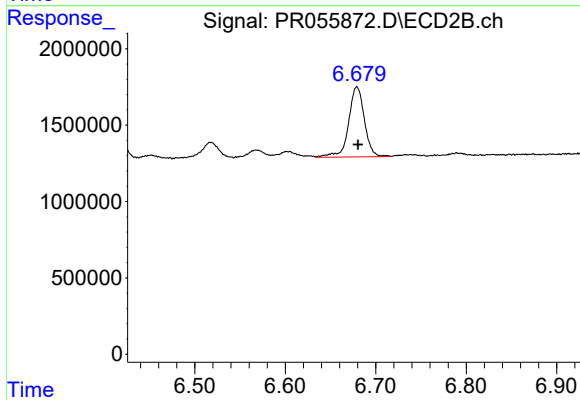
R.T.: 6.414 min
Delta R.T.: -0.002 min
Response: 2413838
Conc: 23.46 ng/ml



#35 AR-1260-5

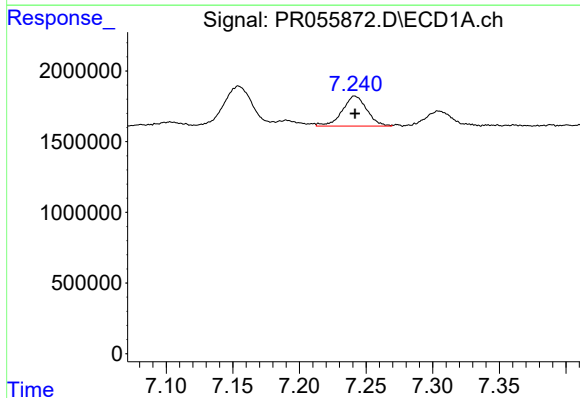
R.T.: 7.823 min
Delta R.T.: 0.000 min
Response: 5761920
Conc: 27.94 ng/ml

Instrument :
ECD_R
ClientSampleId :



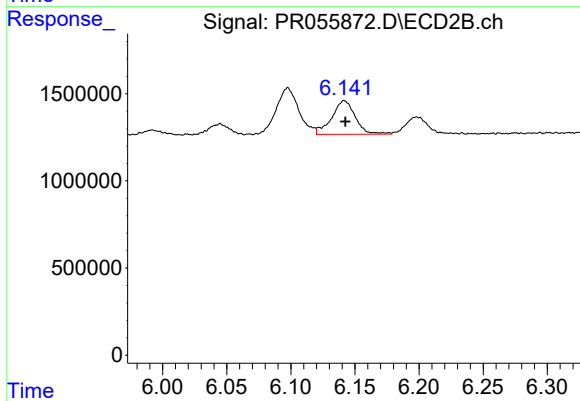
#35 AR-1260-5

R.T.: 6.679 min
Delta R.T.: -0.001 min
Response: 5546201
Conc: 23.04 ng/ml



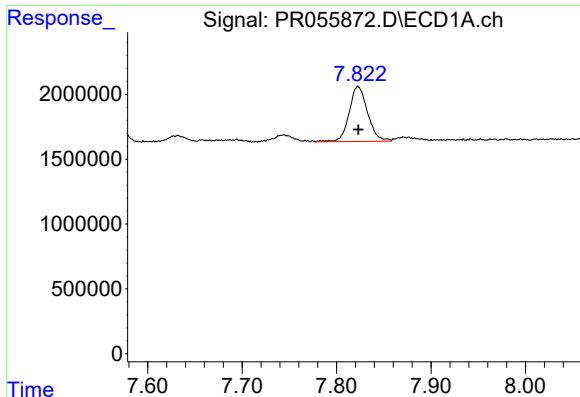
#36 AR-1262-1

R.T.: 7.242 min
Delta R.T.: 0.000 min
Response: 2736180
Conc: 19.20 ng/ml



#36 AR-1262-1

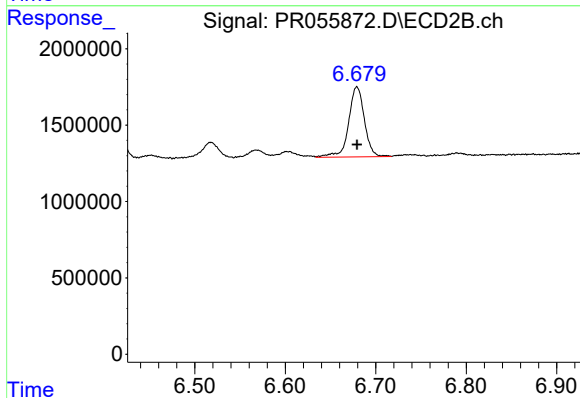
R.T.: 6.142 min
Delta R.T.: 0.000 min
Response: 2476116
Conc: 17.22 ng/ml



#37 AR-1262-2

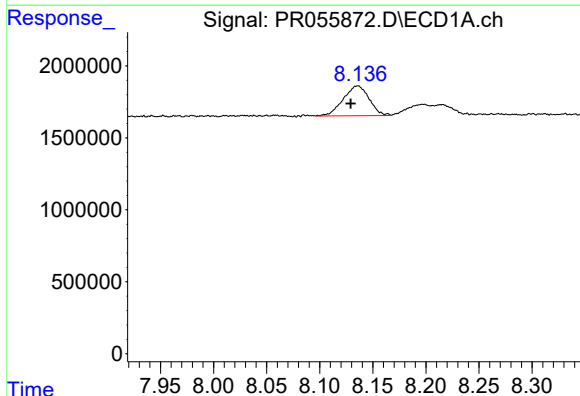
R.T.: 7.823 min
Delta R.T.: 0.000 min
Response: 5761920
Conc: 23.53 ng/ml

Instrument :
ECD_R
ClientSampleId :



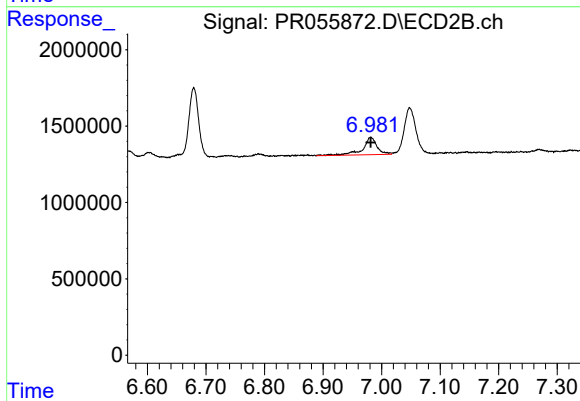
#37 AR-1262-2

R.T.: 6.679 min
Delta R.T.: 0.000 min
Response: 5546201
Conc: 21.00 ng/ml



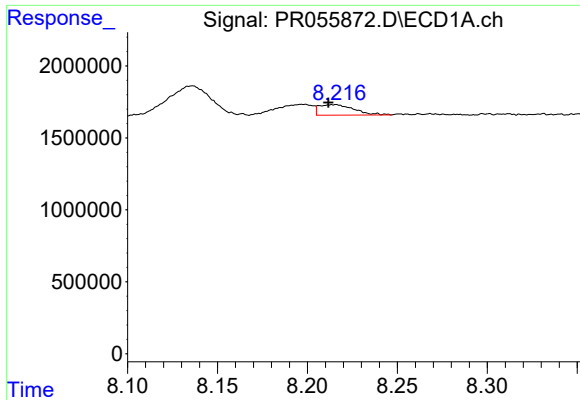
#38 AR-1262-3

R.T.: 8.136 min
Delta R.T.: 0.006 min
Response: 3521923
Conc: 20.81 ng/ml



#38 AR-1262-3

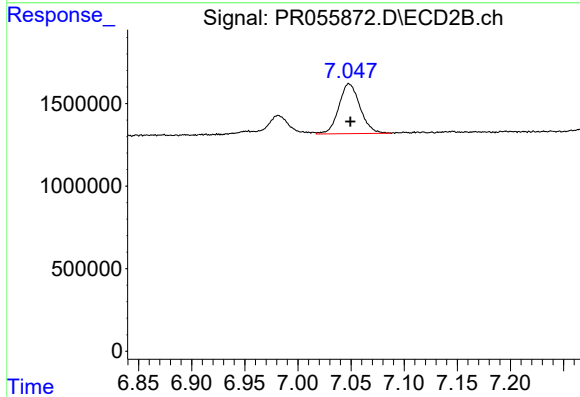
R.T.: 6.982 min
Delta R.T.: 0.000 min
Response: 1927360
Conc: 18.56 ng/ml



#39 AR-1262-4

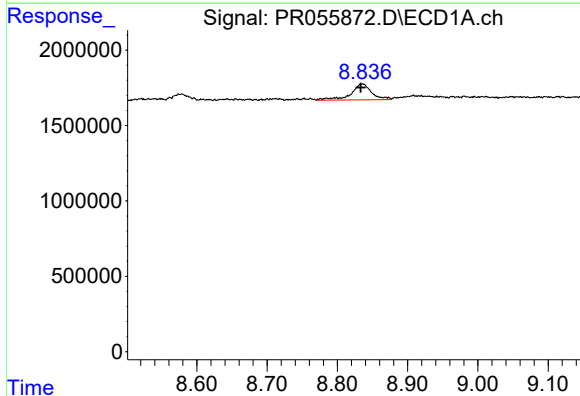
R.T.: 8.215 min
Delta R.T.: 0.004 min
Response: 988263
Conc: 11.63 ng/ml

Instrument :
ECD_R
ClientSampleId :



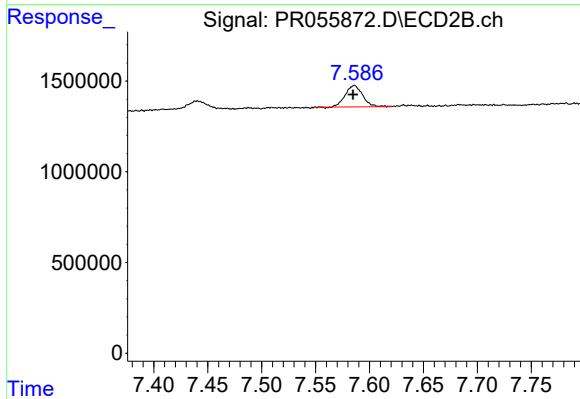
#39 AR-1262-4

R.T.: 7.048 min
Delta R.T.: 0.000 min
Response: 4185866
Conc: 21.33 ng/ml



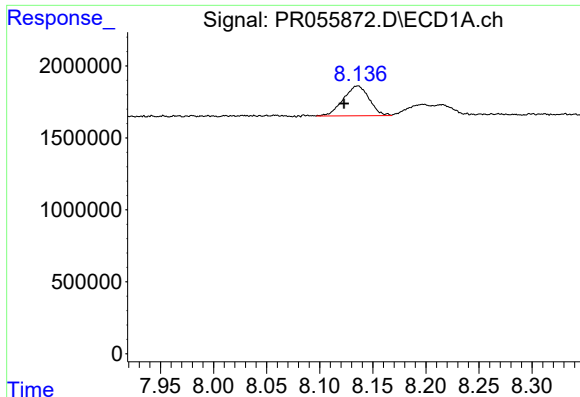
#40 AR-1262-5

R.T.: 8.836 min
Delta R.T.: 0.003 min
Response: 2168295
Conc: 23.51 ng/ml



#40 AR-1262-5

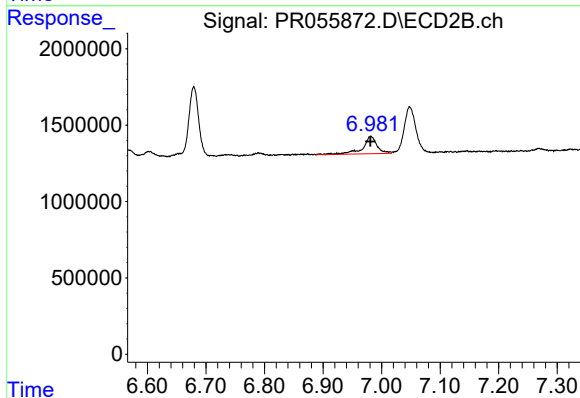
R.T.: 7.586 min
Delta R.T.: 0.000 min
Response: 1312458
Conc: 13.97 ng/ml



#41 AR-1268-1

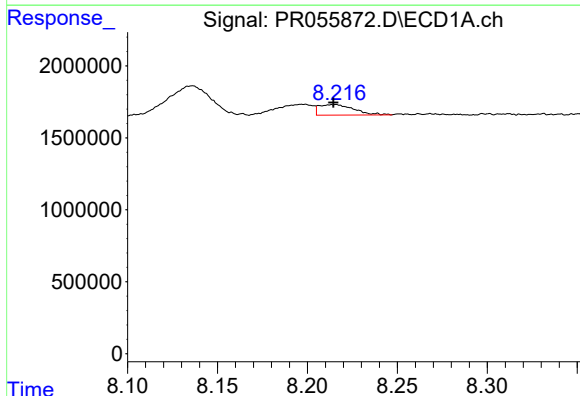
R.T.: 8.136 min
Delta R.T.: 0.013 min
Response: 3521923
Conc: 12.15 ng/ml

Instrument :
ECD_R
ClientSampleId :



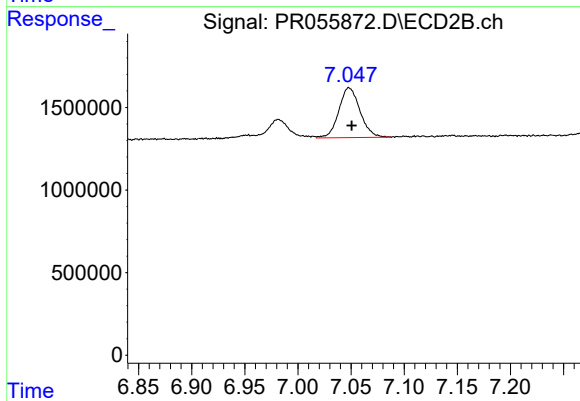
#41 AR-1268-1

R.T.: 6.982 min
Delta R.T.: 0.000 min
Response: 1927360
Conc: 6.16 ng/ml



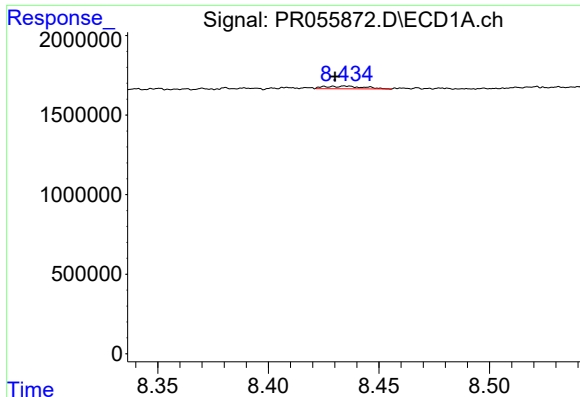
#42 AR-1268-2

R.T.: 8.215 min
Delta R.T.: 0.001 min
Response: 988263
Conc: 3.69 ng/ml



#42 AR-1268-2

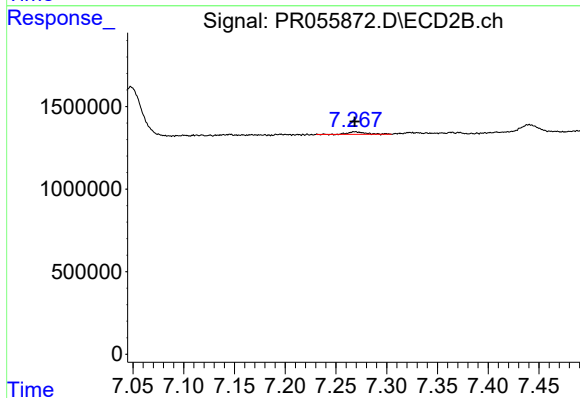
R.T.: 7.048 min
Delta R.T.: -0.002 min
Response: 4185866
Conc: 14.75 ng/ml



#43 AR-1268-3

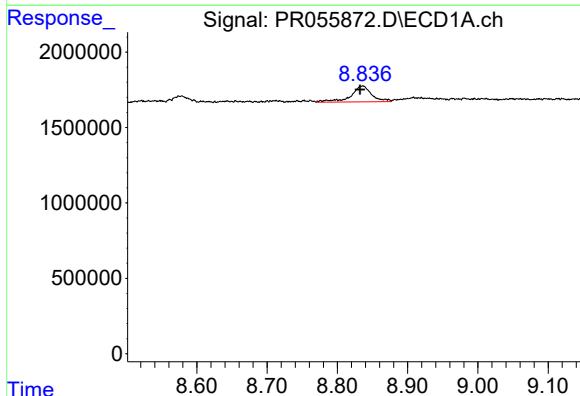
R.T.: 8.435 min
Delta R.T.: 0.005 min
Response: 206274
Conc: 0.91 ng/ml

Instrument :
ECD_R
ClientSampleId :



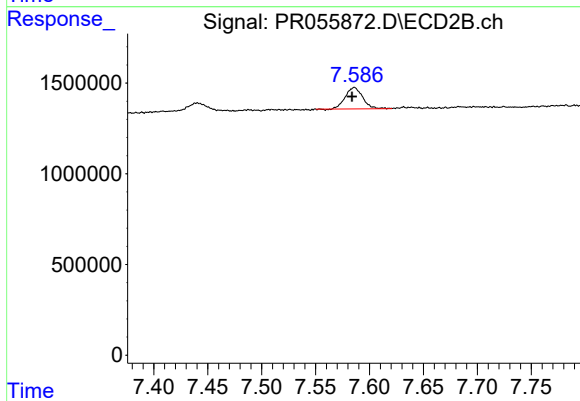
#43 AR-1268-3

R.T.: 7.269 min
Delta R.T.: 0.000 min
Response: 193531
Conc: 0.79 ng/ml



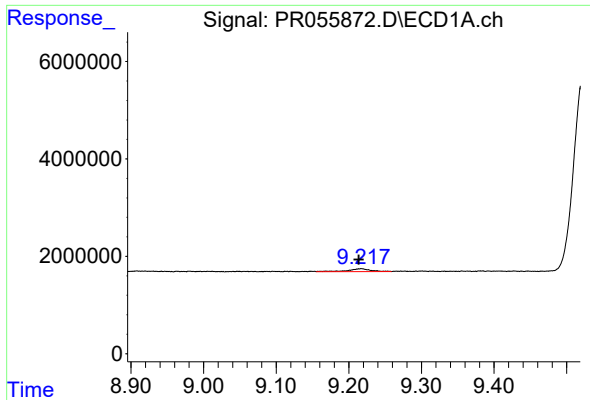
#44 AR-1268-4

R.T.: 8.836 min
Delta R.T.: 0.004 min
Response: 2168295
Conc: 20.70 ng/ml



#44 AR-1268-4

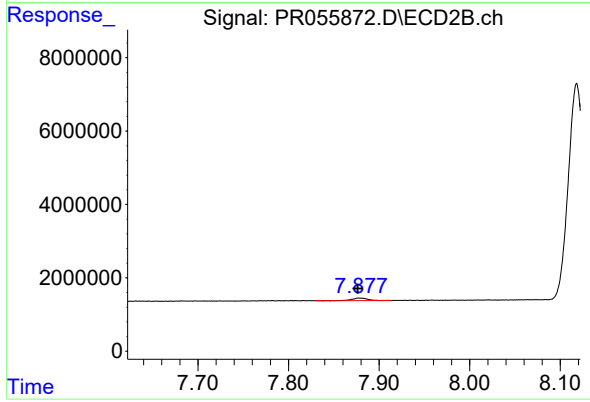
R.T.: 7.586 min
Delta R.T.: 0.002 min
Response: 1312458
Conc: 12.21 ng/ml



#45 AR-1268-5

R.T.: 9.217 min
Delta R.T.: 0.004 min
Response: 1311235
Conc: 1.77 ng/ml

Instrument :
ECD_R
ClientSampleId :



#45 AR-1268-5

R.T.: 7.879 min
Delta R.T.: 0.003 min
Response: 796732
Conc: 1.01 ng/ml