

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR102219\
 Data File : PR042471.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Oct 2019 18:36
 Operator : SM\AJ
 Sample : K5403-02 20X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 BFB93

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 23 06:04:51 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR100319CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Oct 04 06:59:35 2019
 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...	4.723	3.985	10993167	28719820	2.702	1.878 #
2)	SA Decachlor...	10.646	9.092	19900416	53203501	5.791	5.366
Target Compounds							
3)	L1 AR-1016-1	5.925	5.102	3912.9E6	9342.0E6	27254.446	17185.547 #
4)	L1 AR-1016-2	5.925	5.102	3912.9E6	9342.0E6	19134.310	12943.091 #
5)	L1 AR-1016-3	5.997	5.281	289.0E6	2486.8E6	2376.969	6819.624 #
6)	L1 AR-1016-4	6.086	5.319	972.9E6	6203.5E6	9566.215	22354.018 #
7)	L1 AR-1016-5	6.382	5.536	3140.7E6	5880.7E6	31542.179	19018.245 #
8)	L2 AR-1221-1	0.000	4.183	0	12255828	N.D.	72.546 #
9)	L2 AR-1221-2	5.020	4.284	23694733	27192073	816.682	221.258 #
10)	L2 AR-1221-3	5.098	4.361	12637312	22956990	129.890	58.940 #
11)	L3 AR-1232-1	5.098	4.361	12637312	22956990	151.023	67.376 #
12)	L3 AR-1232-2	5.633	5.102	602.4E6	9342.0E6	13982.566	27434.005 #
13)	L3 AR-1232-3	5.925	5.281	3912.9E6	2486.8E6	43517.633	14765.825 #
14)	L3 AR-1232-4	6.086	5.362	972.9E6	6699.2E6	21860.963	47032.425 #
15)	L3 AR-1232-5	6.175	5.536	2888.1E6	5880.7E6	87914.458	43641.193 #
16)	L4 AR-1242-1	5.925	5.102	3912.9E6	9342.0E6	35482.933	21996.711 #
17)	L4 AR-1242-2	5.925	5.102	3912.9E6	9342.0E6	25203.758	16415.114 #
18)	L4 AR-1242-3	5.997	5.281	289.0E6	2486.8E6	3079.825	8616.407 #
19)	L4 AR-1242-4	6.086	5.362	972.9E6	6699.2E6	12523.138	25734.593 #
20)	L4 AR-1242-5	6.826	5.890	4368.4E6	5124.7E6	49909.041	19317.185 #
21)	L5 AR-1248-1	5.925	5.102	3912.9E6	9342.0E6	47023.048	28661.709 #
22)	L5 AR-1248-2	6.175	5.319	2888.1E6	6203.5E6	25167.958	16654.889 #
23)	L5 AR-1248-3	6.382	5.362	3140.7E6	6699.2E6	24222.988	17897.174 #
24)	L5 AR-1248-4	6.786	5.536	1687.5E6	5880.7E6	10997.315	14765.352 #
25)	L5 AR-1248-5	6.826	5.931	4368.4E6	7356.3E6	30171.018	21062.486 #
26)	L6 AR-1254-1	6.758	5.890	2914.2E6	5124.7E6	17844.537	9674.129 #
27)	L6 AR-1254-2	6.984	6.037	4082.0E6	2909.3E6	16453.216	5802.832 #
28)	L6 AR-1254-3	7.347	6.443	2474.5E6	6098.8E6	9169.407	6464.413 #
29)	L6 AR-1254-4	7.632	6.671	1738.2E6	4706.9E6	8564.405	7109.215
30)	L6 AR-1254-5	8.052	7.091	522.3E6	1682.1E6	2456.254	1959.057
31)	L7 AR-1260-1	7.510	6.590	314.6E6	1522.9E6	1660.210	2569.089 #
32)	L7 AR-1260-2	7.761	6.760	379.0E6	809.1E6	1603.564	992.379 #
33)	L7 AR-1260-3	8.121	6.916	83888695	774.6E6	446.863	1120.459 #
34)	L7 AR-1260-4	8.356	7.390	197.2E6	182.1E6	981.445	313.755 #
35)	L7 AR-1260-5	8.704	7.629	107.9E6	346.2E6	249.190	212.940
36)	L8 AR-1262-1	8.186	7.091	33078030	1682.1E6	351.405	3860.034 #
37)	L8 AR-1262-2	8.704	7.629	107.9E6	346.2E6	250.085	201.110
38)	L8 AR-1262-3	9.055	7.915	74168505	115.1E6	266.081	176.310 #
39)	L8 AR-1262-4	9.131	7.979	39147244	244.1E6	191.084	208.885
40)	L8 AR-1262-5	9.836	8.496	21161660	71338398	146.702	133.366
41)	L9 AR-1268-1	9.055	7.915	74168505	115.1E6	135.037	52.486 #
42)	L9 AR-1268-2	9.131	7.979	39147244	244.1E6	78.739	122.671 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR102219\
Data File : PR042471.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Oct 2019 18:36
Operator : SM\AJ
Sample : K5403-02 20X
Misc :
ALS Vial : 37 Sample Multiplier: 1

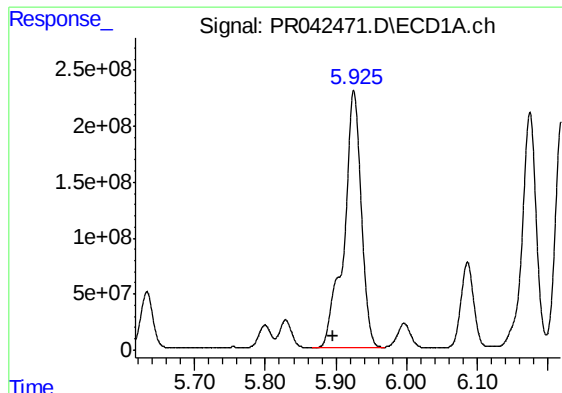
Instrument :
ECD_R
ClientSampleId :
BFB93

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 23 06:04:51 2019
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR100319CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Fri Oct 04 06:59:35 2019
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
43)	L9 AR-1268-3	9.378	8.193	7574474	24277353	18.570	14.486
44)	L9 AR-1268-4	9.836	8.496	21161660	71338398	120.615	110.542
45)	L9 AR-1268-5	10.284	8.813	23041164	61373355	17.682	13.374

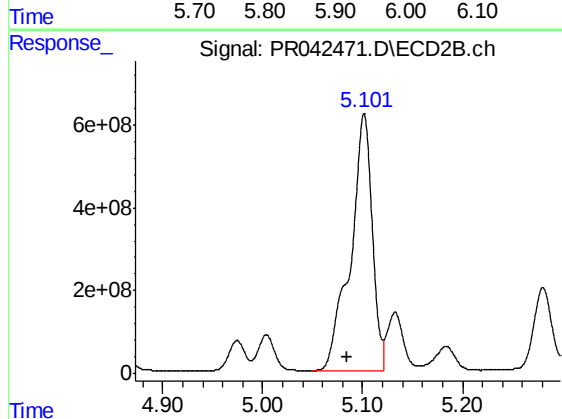
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#3 AR-1016-1

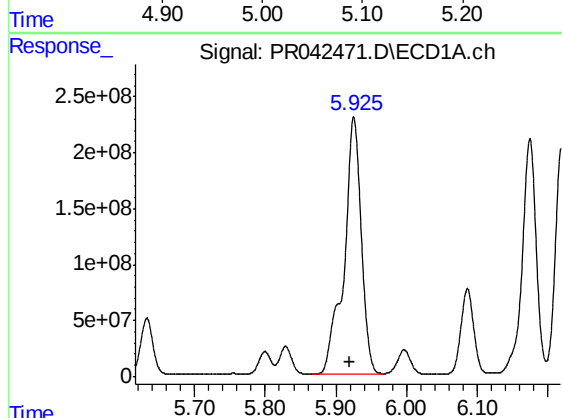
R.T.: 5.925 min
Delta R.T.: 0.028 min
Response: 3912899466
Conc: 27254.45 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



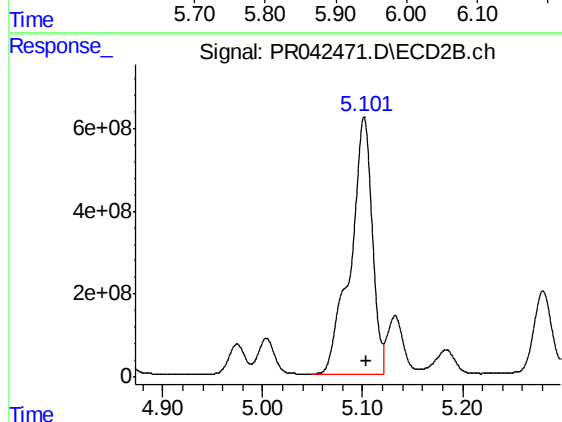
#3 AR-1016-1

R.T.: 5.102 min
Delta R.T.: 0.017 min
Response: 9341988130
Conc: 17185.55 ng/ml



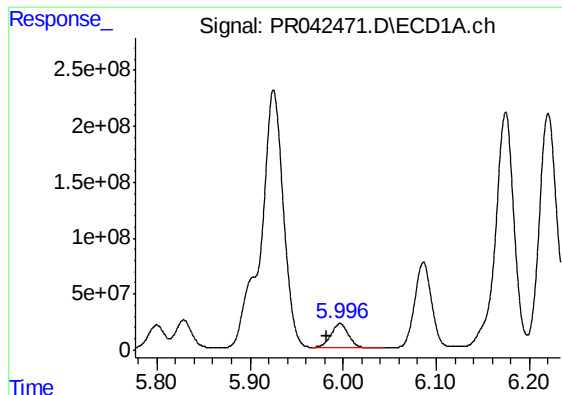
#4 AR-1016-2

R.T.: 5.925 min
Delta R.T.: 0.006 min
Response: 3912899466
Conc: 19134.31 ng/ml



#4 AR-1016-2

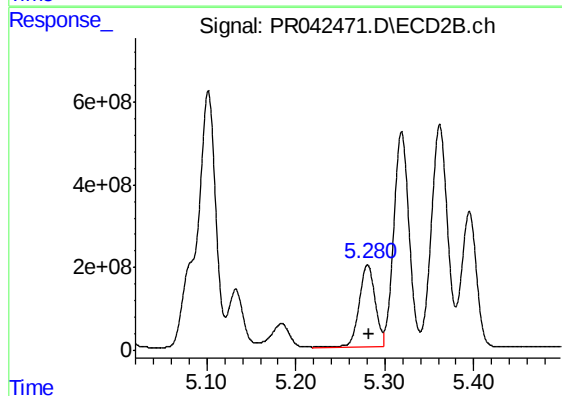
R.T.: 5.102 min
Delta R.T.: -0.002 min
Response: 9341988130
Conc: 12943.09 ng/ml



#5 AR-1016-3

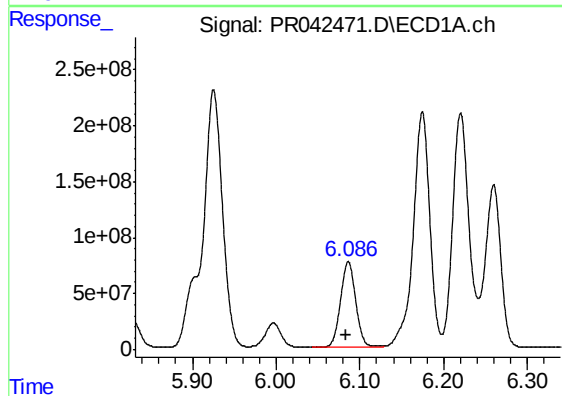
R.T.: 5.997 min
Delta R.T.: 0.014 min
Response: 288976745
Conc: 2376.97 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



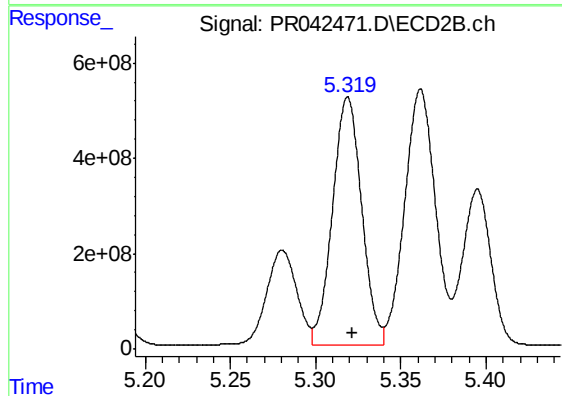
#5 AR-1016-3

R.T.: 5.281 min
Delta R.T.: -0.002 min
Response: 2486754293
Conc: 6819.62 ng/ml



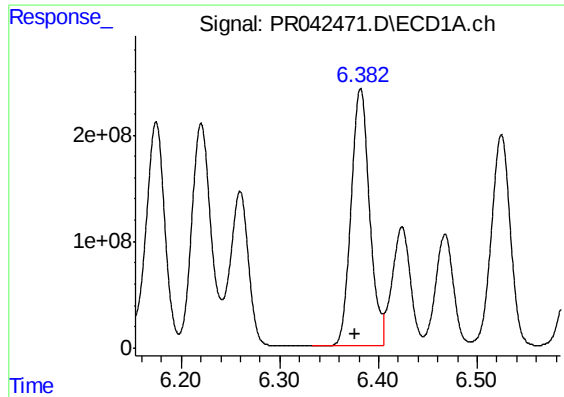
#6 AR-1016-4

R.T.: 6.086 min
Delta R.T.: 0.003 min
Response: 972892989
Conc: 9566.21 ng/ml



#6 AR-1016-4

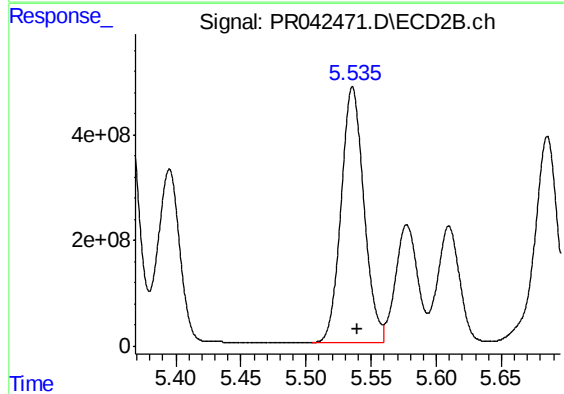
R.T.: 5.319 min
Delta R.T.: -0.003 min
Response: 6203464078
Conc: 22354.02 ng/ml



#7 AR-1016-5

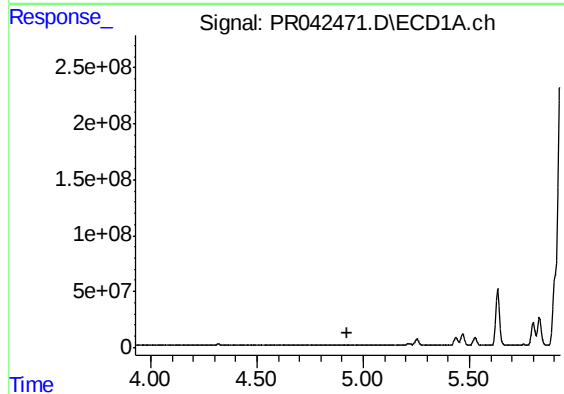
R.T.: 6.382 min
Delta R.T.: 0.005 min
Response: 3140682086
Conc: 31542.18 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



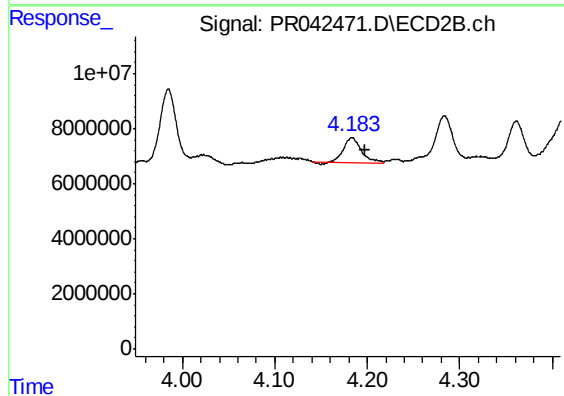
#7 AR-1016-5

R.T.: 5.536 min
Delta R.T.: -0.004 min
Response: 5880690600
Conc: 19018.24 ng/ml



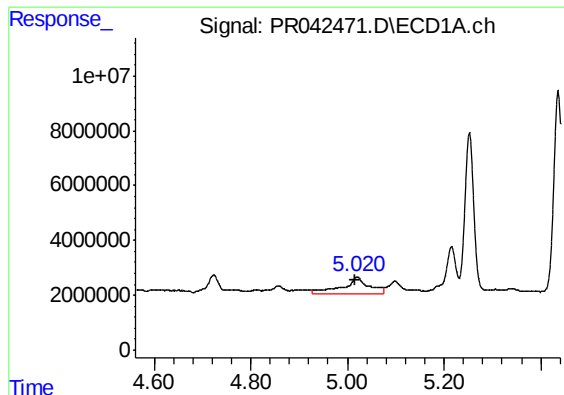
#8 AR-1221-1

R.T.: 0.000 min
Exp R.T. : 4.928 min
Response: 0
Conc: N.D.



#8 AR-1221-1

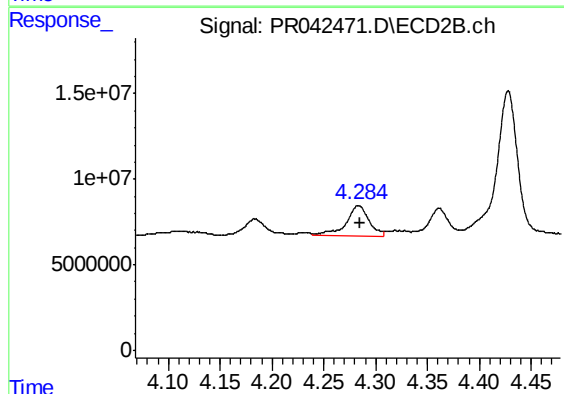
R.T.: 4.183 min
Delta R.T.: -0.015 min
Response: 12255828
Conc: 72.55 ng/ml



#9 AR-1221-2

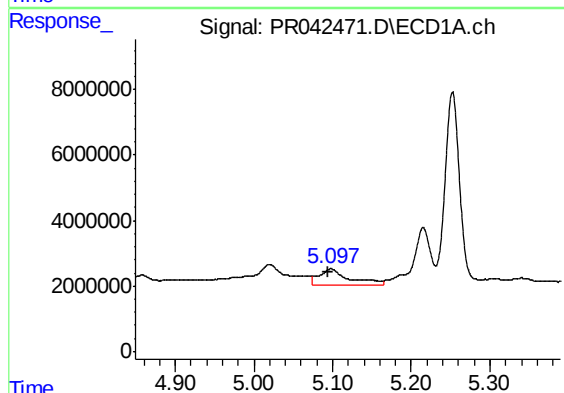
R.T.: 5.020 min
Delta R.T.: 0.004 min
Response: 23694733
Conc: 816.68 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



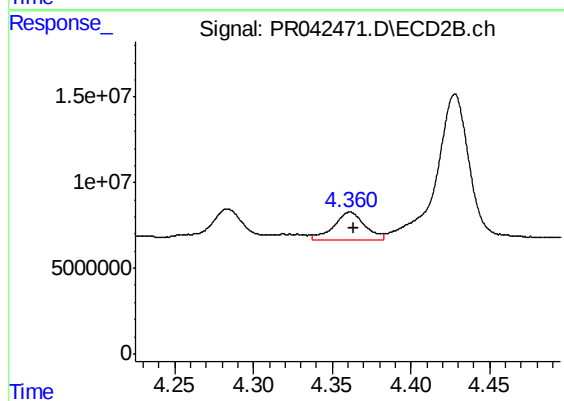
#9 AR-1221-2

R.T.: 4.284 min
Delta R.T.: -0.002 min
Response: 27192073
Conc: 221.26 ng/ml



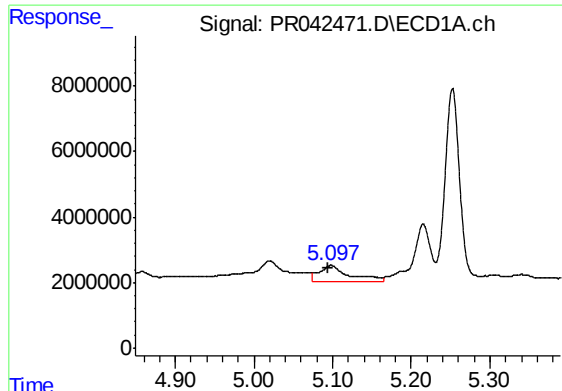
#10 AR-1221-3

R.T.: 5.098 min
Delta R.T.: 0.004 min
Response: 12637312
Conc: 129.89 ng/ml



#10 AR-1221-3

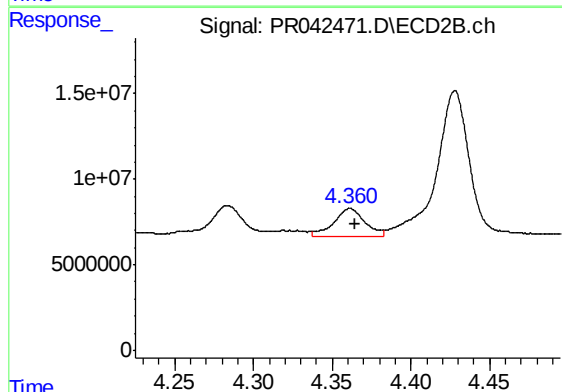
R.T.: 4.361 min
Delta R.T.: -0.002 min
Response: 22956990
Conc: 58.94 ng/ml



#11 AR-1232-1

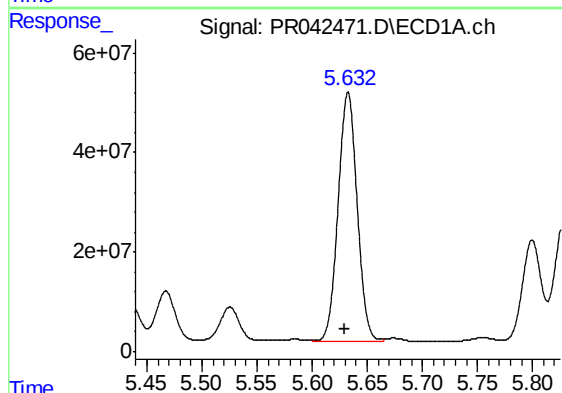
R.T.: 5.098 min
Delta R.T.: 0.003 min
Response: 12637312
Conc: 151.02 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



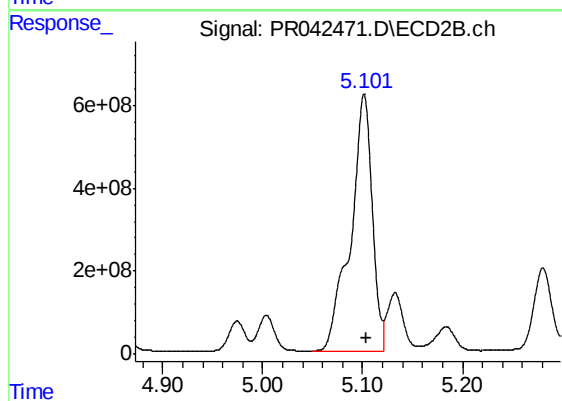
#11 AR-1232-1

R.T.: 4.361 min
Delta R.T.: -0.003 min
Response: 22956990
Conc: 67.38 ng/ml



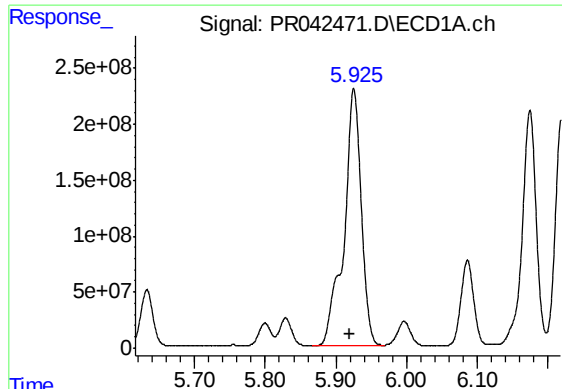
#12 AR-1232-2

R.T.: 5.633 min
Delta R.T.: 0.003 min
Response: 602351769
Conc: 13982.57 ng/ml



#12 AR-1232-2

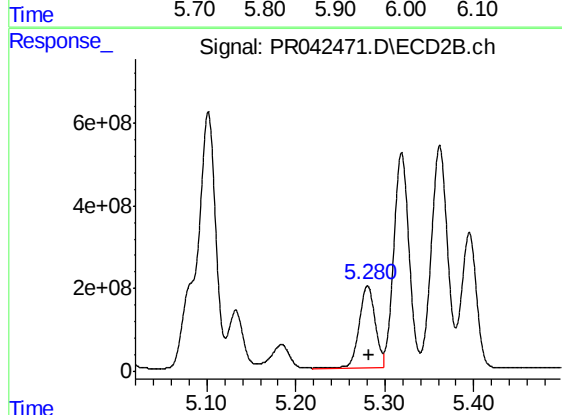
R.T.: 5.102 min
Delta R.T.: -0.003 min
Response: 9341988130
Conc: 27434.01 ng/ml



#13 AR-1232-3

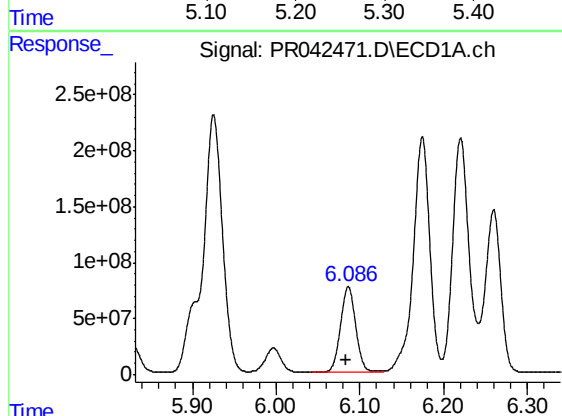
R.T.: 5.925 min
Delta R.T.: 0.006 min
Response: 3912899466
Conc: 43517.63 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



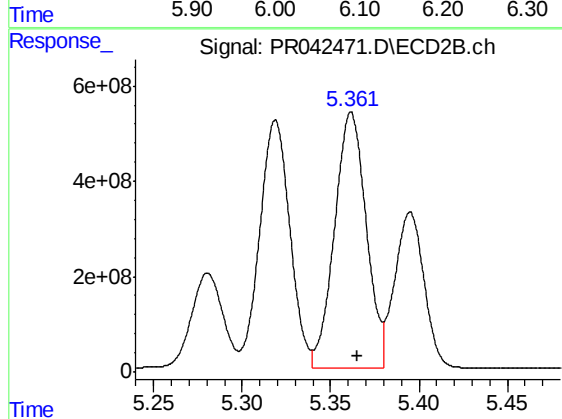
#13 AR-1232-3

R.T.: 5.281 min
Delta R.T.: -0.002 min
Response: 2486754293
Conc: 14765.82 ng/ml



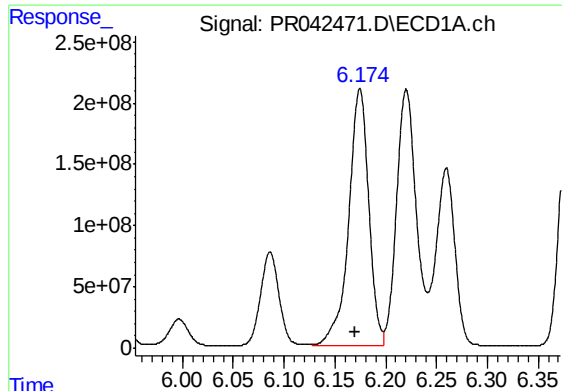
#14 AR-1232-4

R.T.: 6.086 min
Delta R.T.: 0.003 min
Response: 972892989
Conc: 21860.96 ng/ml



#14 AR-1232-4

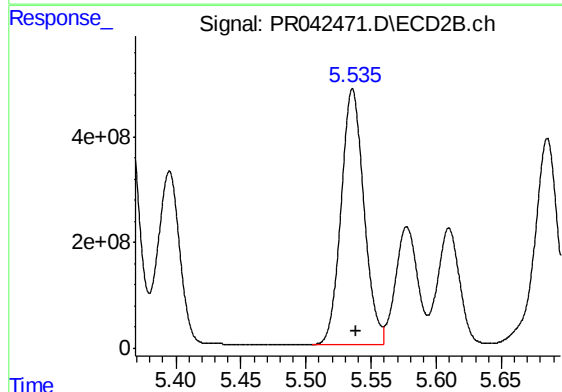
R.T.: 5.362 min
Delta R.T.: -0.004 min
Response: 6699249744
Conc: 47032.43 ng/ml



#15 AR-1232-5

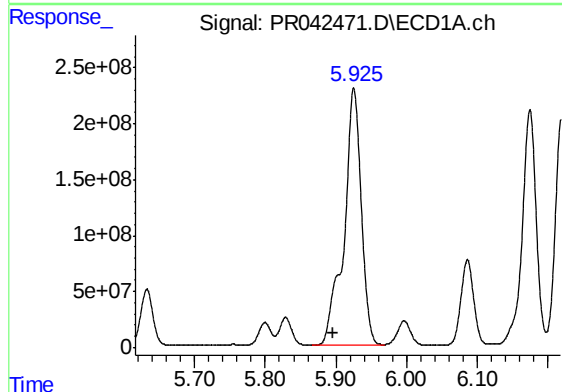
R.T.: 6.175 min
Delta R.T.: 0.005 min
Response: 2888133666
Conc: 87914.46 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



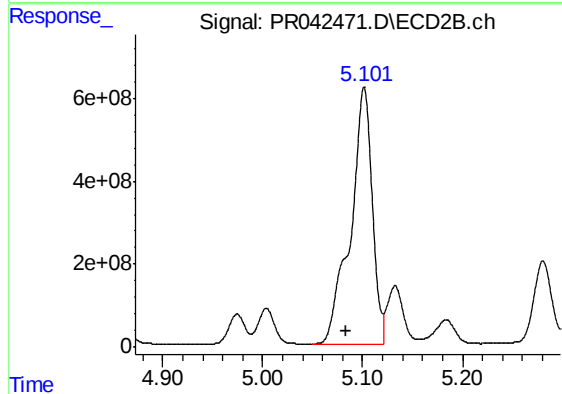
#15 AR-1232-5

R.T.: 5.536 min
Delta R.T.: -0.003 min
Response: 5880690600
Conc: 43641.19 ng/ml



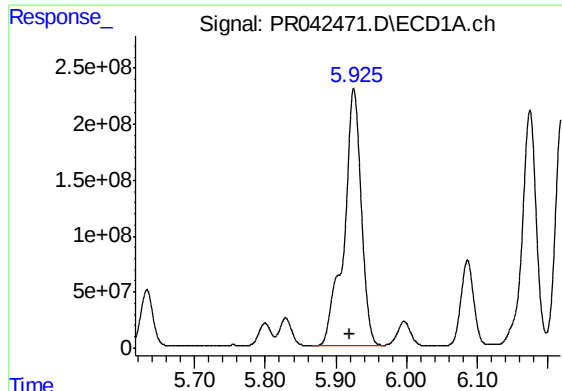
#16 AR-1242-1

R.T.: 5.925 min
Delta R.T.: 0.029 min
Response: 3912899466
Conc: 35482.93 ng/ml



#16 AR-1242-1

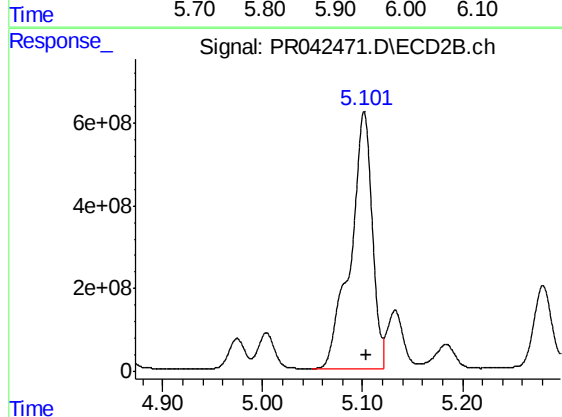
R.T.: 5.102 min
Delta R.T.: 0.018 min
Response: 9341988130
Conc: 21996.71 ng/ml



#17 AR-1242-2

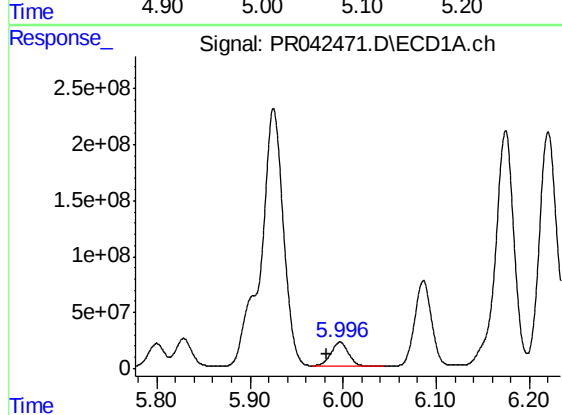
R.T.: 5.925 min
Delta R.T.: 0.006 min
Response: 3912899466
Conc: 25203.76 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



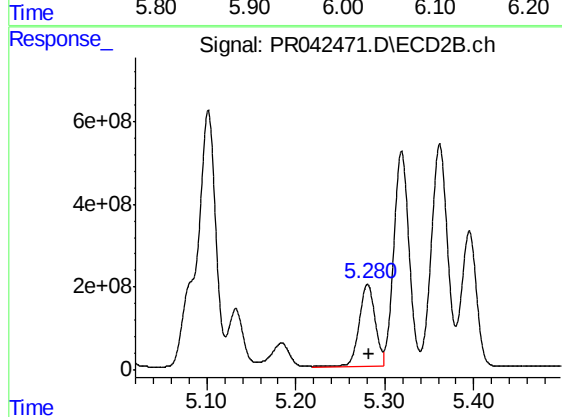
#17 AR-1242-2

R.T.: 5.102 min
Delta R.T.: -0.002 min
Response: 9341988130
Conc: 16415.11 ng/ml



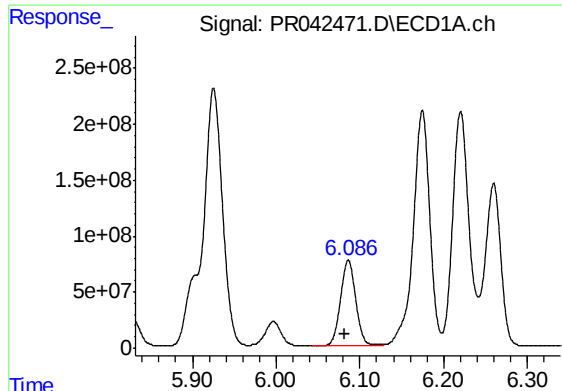
#18 AR-1242-3

R.T.: 5.997 min
Delta R.T.: 0.014 min
Response: 288976745
Conc: 3079.83 ng/ml



#18 AR-1242-3

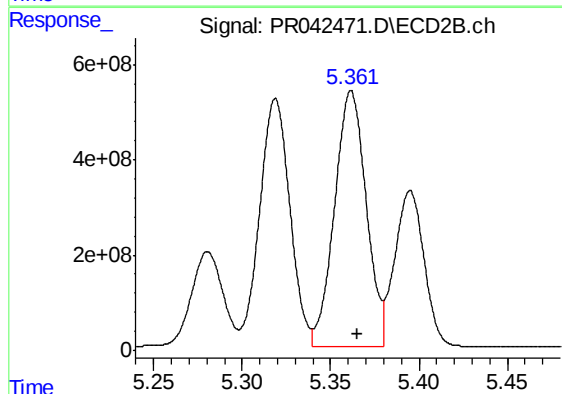
R.T.: 5.281 min
Delta R.T.: -0.002 min
Response: 2486754293
Conc: 8616.41 ng/ml



#19 AR-1242-4

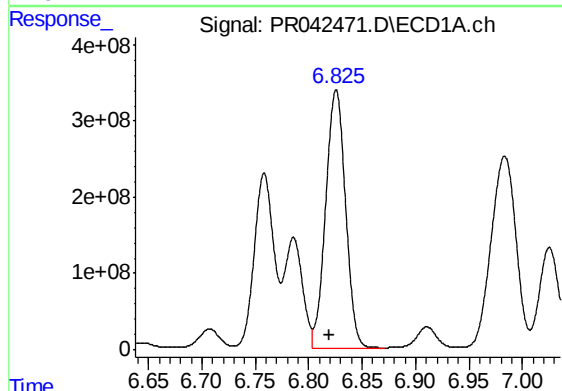
R.T.: 6.086 min
Delta R.T.: 0.004 min
Response: 972892989
Conc: 12523.14 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



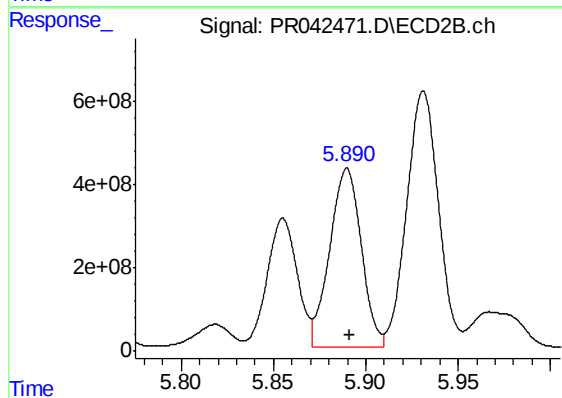
#19 AR-1242-4

R.T.: 5.362 min
Delta R.T.: -0.003 min
Response: 6699249744
Conc: 25734.59 ng/ml



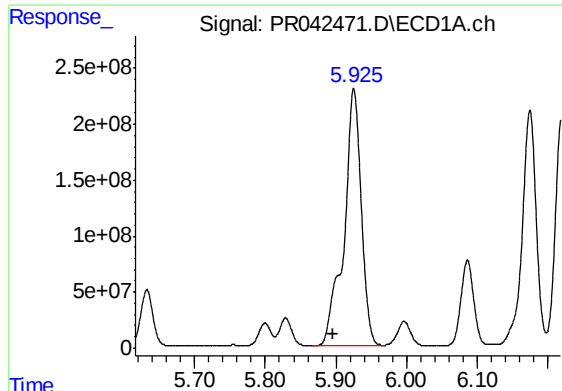
#20 AR-1242-5

R.T.: 6.826 min
Delta R.T.: 0.006 min
Response: 4368444878
Conc: 49909.04 ng/ml



#20 AR-1242-5

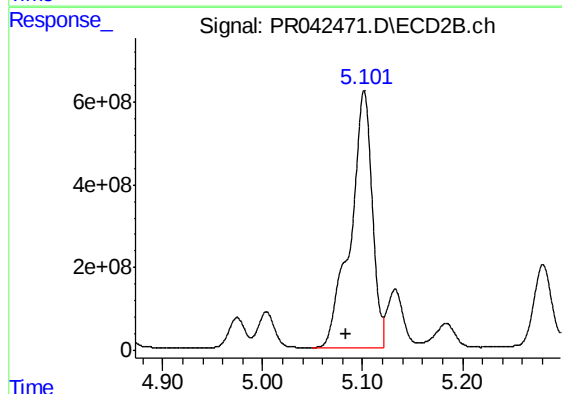
R.T.: 5.890 min
Delta R.T.: -0.002 min
Response: 5124726722
Conc: 19317.18 ng/ml



#21 AR-1248-1

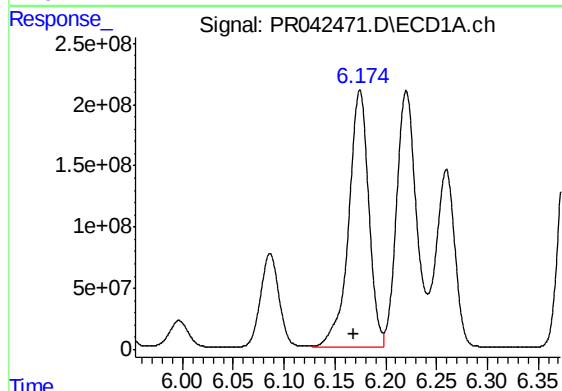
R.T.: 5.925 min
Delta R.T.: 0.030 min
Response: 3912899466
Conc: 47023.05 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



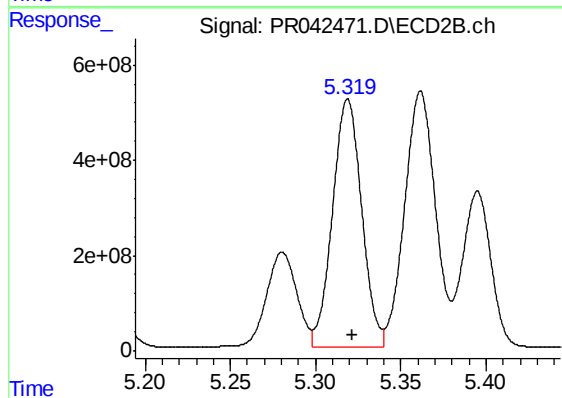
#21 AR-1248-1

R.T.: 5.102 min
Delta R.T.: 0.018 min
Response: 9341988130
Conc: 28661.71 ng/ml



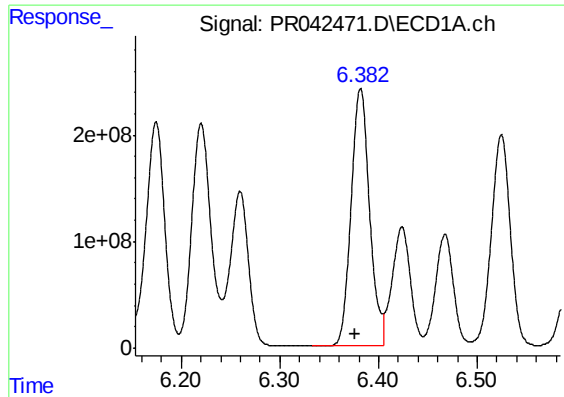
#22 AR-1248-2

R.T.: 6.175 min
Delta R.T.: 0.006 min
Response: 2888133666
Conc: 25167.96 ng/ml



#22 AR-1248-2

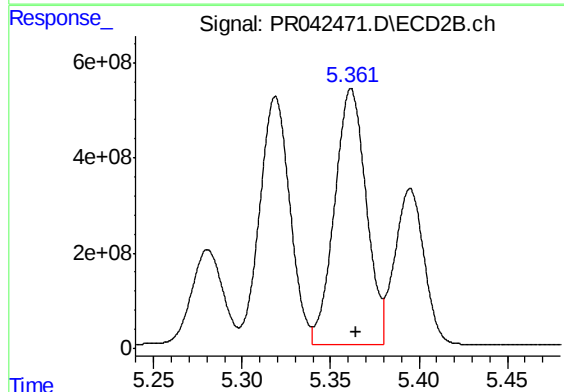
R.T.: 5.319 min
Delta R.T.: -0.002 min
Response: 6203464078
Conc: 16654.89 ng/ml



#23 AR-1248-3

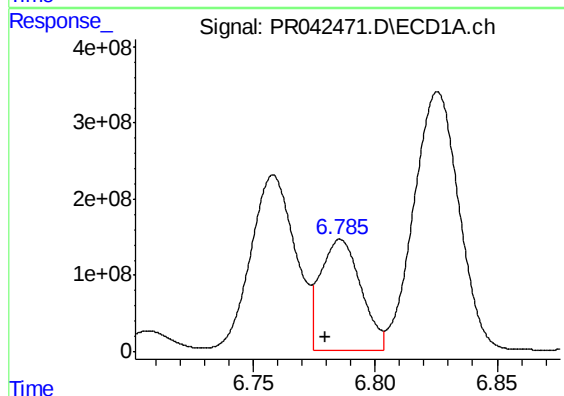
R.T.: 6.382 min
Delta R.T.: 0.006 min
Response: 3140682086
Conc: 24222.99 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



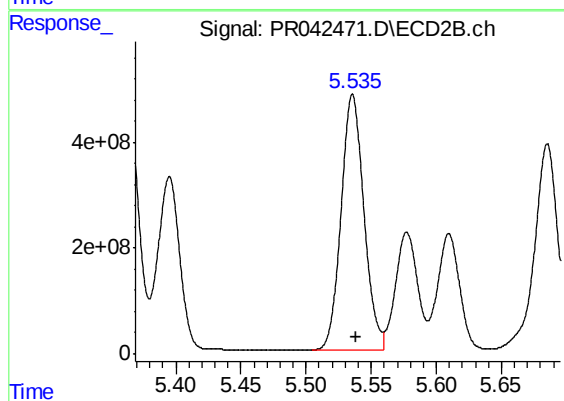
#23 AR-1248-3

R.T.: 5.362 min
Delta R.T.: -0.003 min
Response: 6699249744
Conc: 17897.17 ng/ml



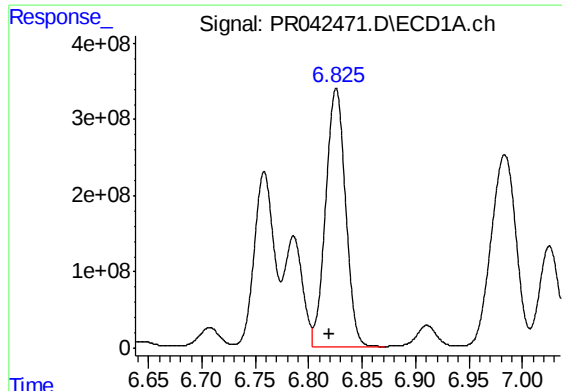
#24 AR-1248-4

R.T.: 6.786 min
Delta R.T.: 0.006 min
Response: 1687498668
Conc: 10997.31 ng/ml



#24 AR-1248-4

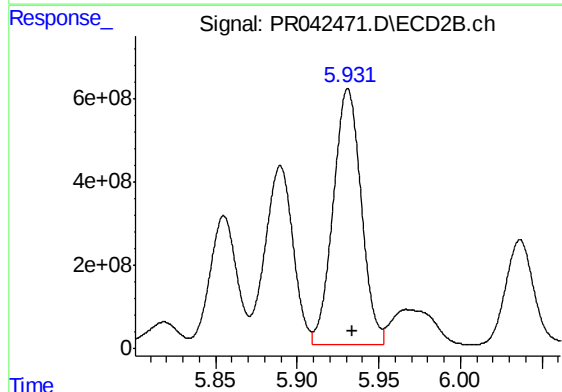
R.T.: 5.536 min
Delta R.T.: -0.003 min
Response: 5880690600
Conc: 14765.35 ng/ml



#25 AR-1248-5

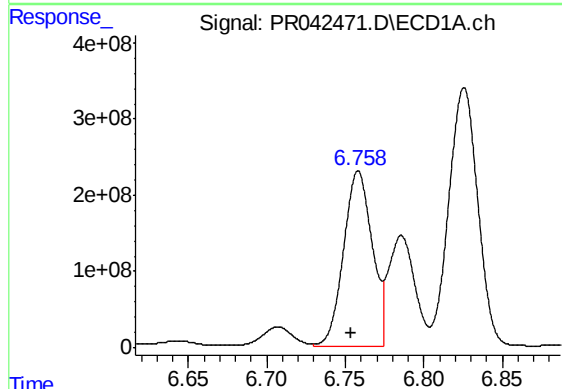
R.T.: 6.826 min
Delta R.T.: 0.006 min
Response: 4368444878
Conc: 30171.02 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



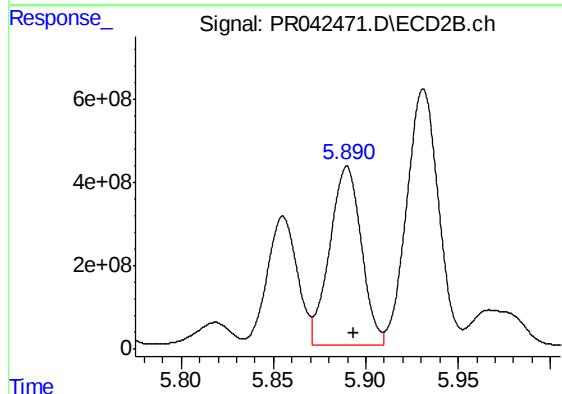
#25 AR-1248-5

R.T.: 5.931 min
Delta R.T.: -0.003 min
Response: 7356340178
Conc: 21062.49 ng/ml



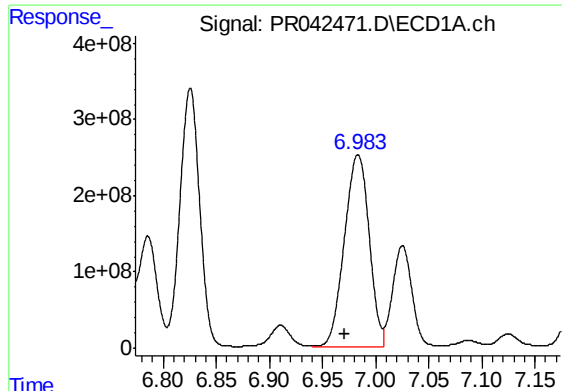
#26 AR-1254-1

R.T.: 6.758 min
Delta R.T.: 0.005 min
Response: 2914224445
Conc: 17844.54 ng/ml



#26 AR-1254-1

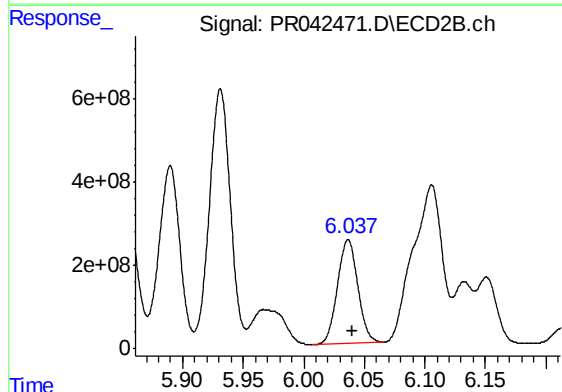
R.T.: 5.890 min
Delta R.T.: -0.003 min
Response: 5124726722
Conc: 9674.13 ng/ml



#27 AR-1254-2

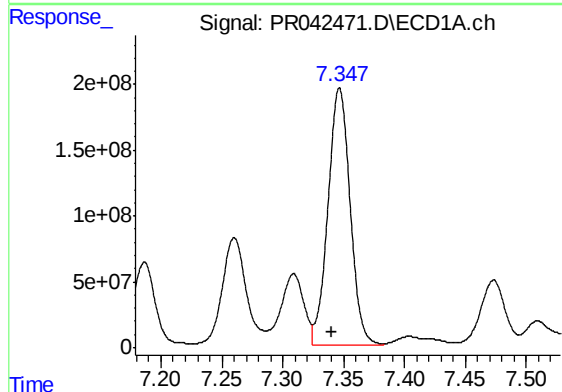
R.T.: 6.984 min
Delta R.T.: 0.013 min
Response: 4082041250
Conc: 16453.22 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



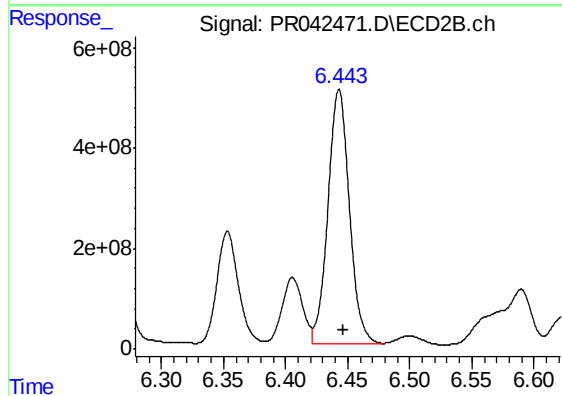
#27 AR-1254-2

R.T.: 6.037 min
Delta R.T.: -0.003 min
Response: 2909276886
Conc: 5802.83 ng/ml



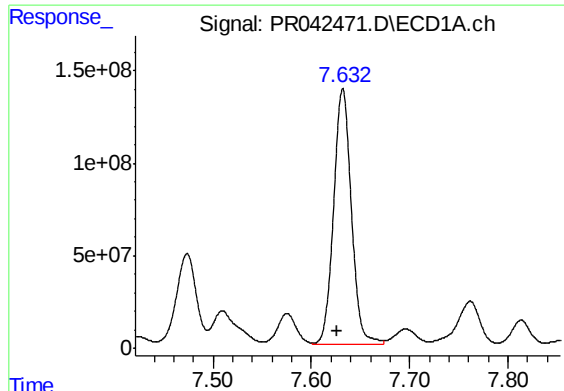
#28 AR-1254-3

R.T.: 7.347 min
Delta R.T.: 0.007 min
Response: 2474470730
Conc: 9169.41 ng/ml



#28 AR-1254-3

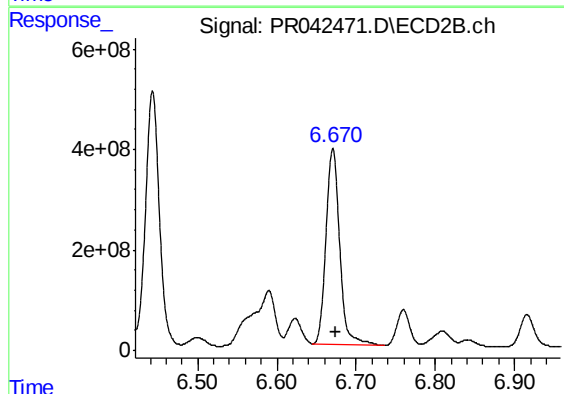
R.T.: 6.443 min
Delta R.T.: -0.004 min
Response: 6098826848
Conc: 6464.41 ng/ml



#29 AR-1254-4

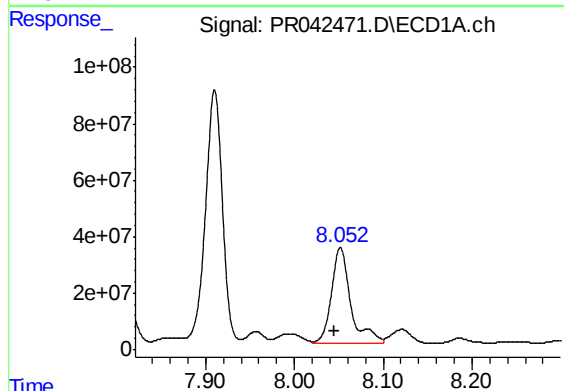
R.T.: 7.632 min
Delta R.T.: 0.006 min
Response: 1738203477
Conc: 8564.40 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



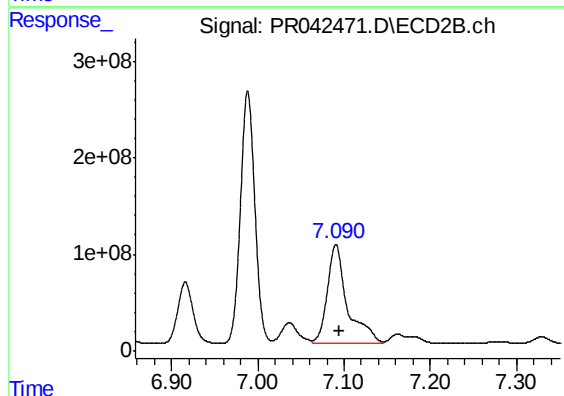
#29 AR-1254-4

R.T.: 6.671 min
Delta R.T.: -0.004 min
Response: 4706863445
Conc: 7109.22 ng/ml



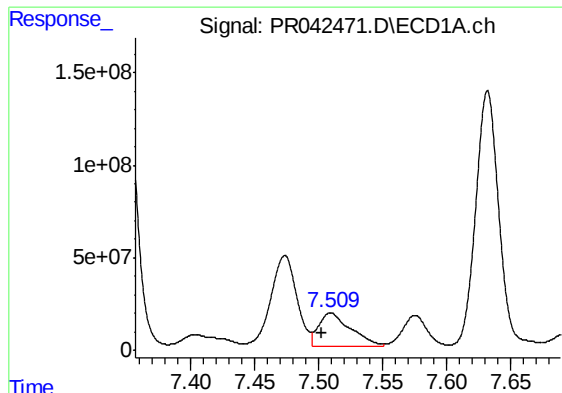
#30 AR-1254-5

R.T.: 8.052 min
Delta R.T.: 0.007 min
Response: 522331255
Conc: 2456.25 ng/ml



#30 AR-1254-5

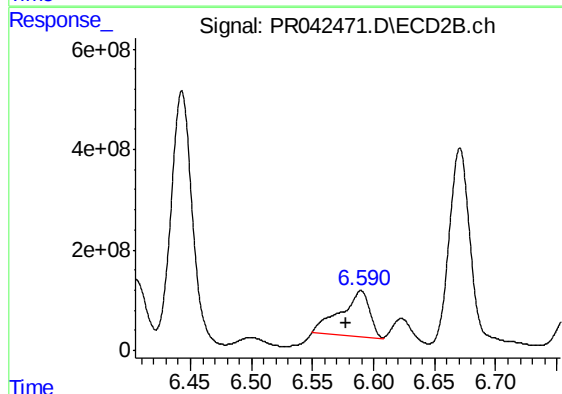
R.T.: 7.091 min
Delta R.T.: -0.004 min
Response: 1682133370
Conc: 1959.06 ng/ml



#31 AR-1260-1

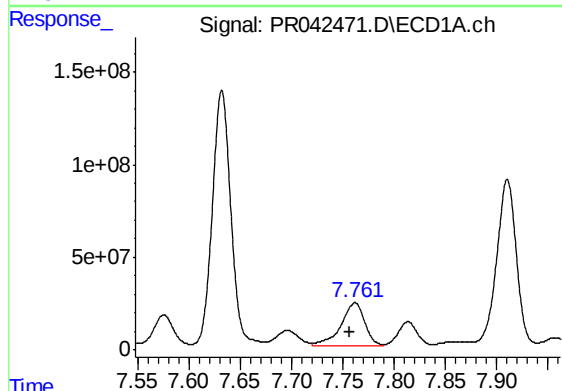
R.T.: 7.510 min
Delta R.T.: 0.008 min
Response: 314552982
Conc: 1660.21 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



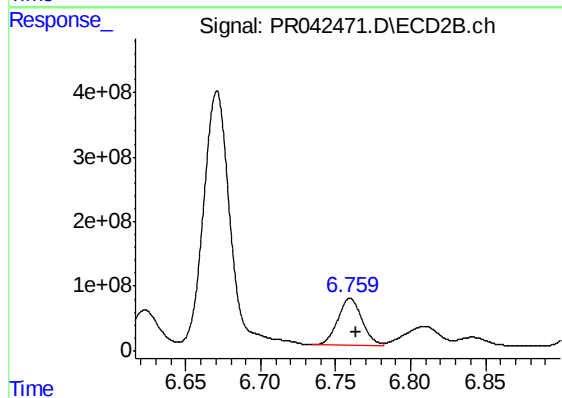
#31 AR-1260-1

R.T.: 6.590 min
Delta R.T.: 0.012 min
Response: 1522874570
Conc: 2569.09 ng/ml



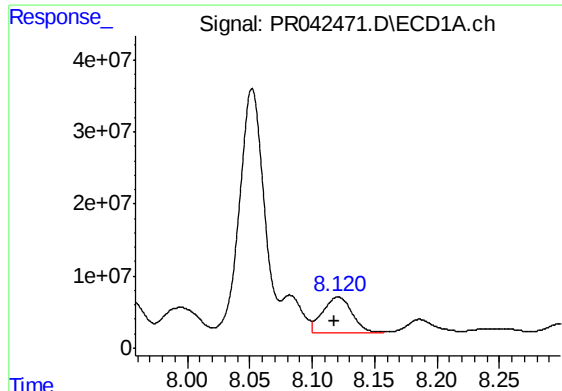
#32 AR-1260-2

R.T.: 7.761 min
Delta R.T.: 0.004 min
Response: 379020613
Conc: 1603.56 ng/ml



#32 AR-1260-2

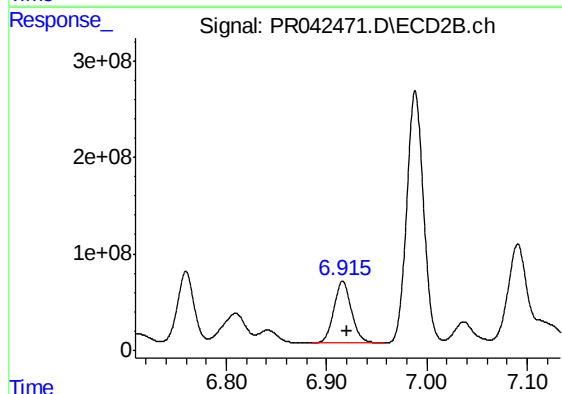
R.T.: 6.760 min
Delta R.T.: -0.004 min
Response: 809063878
Conc: 992.38 ng/ml



#33 AR-1260-3

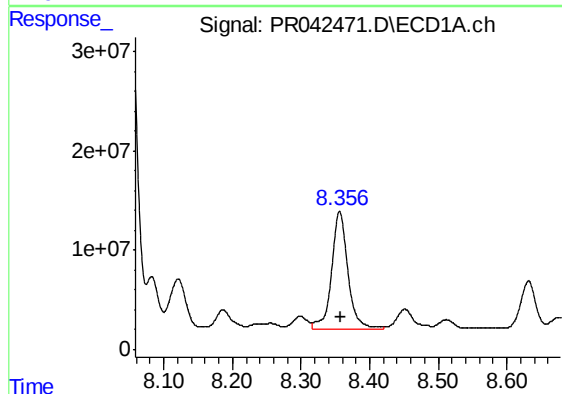
R.T.: 8.121 min
Delta R.T.: 0.003 min
Response: 83888695
Conc: 446.86 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



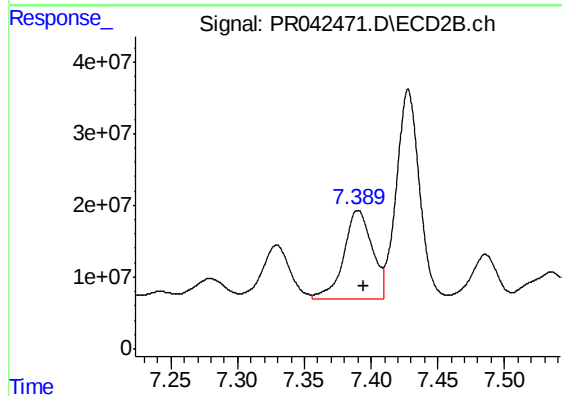
#33 AR-1260-3

R.T.: 6.916 min
Delta R.T.: -0.004 min
Response: 774583550
Conc: 1120.46 ng/ml



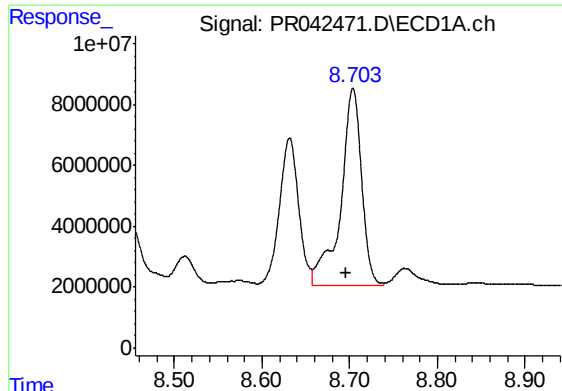
#34 AR-1260-4

R.T.: 8.356 min
Delta R.T.: -0.001 min
Response: 197237608
Conc: 981.45 ng/ml



#34 AR-1260-4

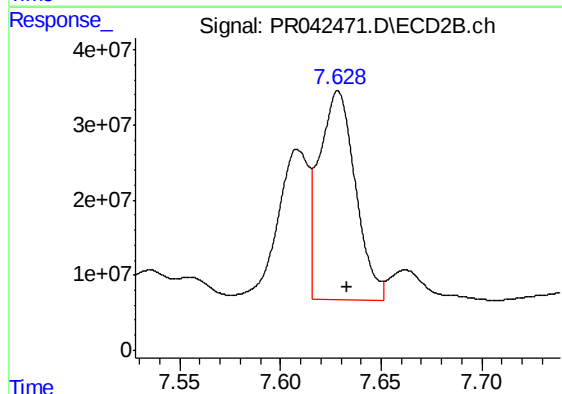
R.T.: 7.390 min
Delta R.T.: -0.004 min
Response: 182069840
Conc: 313.75 ng/ml



#35 AR-1260-5

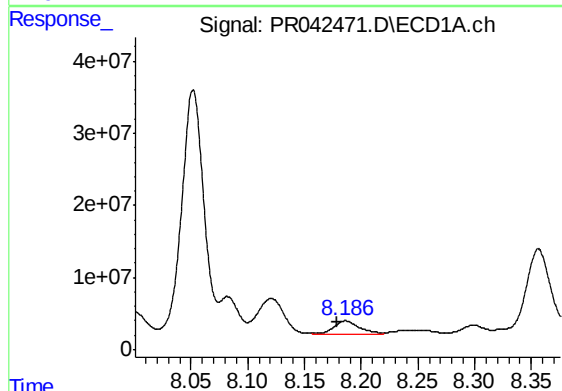
R.T.: 8.704 min
Delta R.T.: 0.008 min
Response: 107871176
Conc: 249.19 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



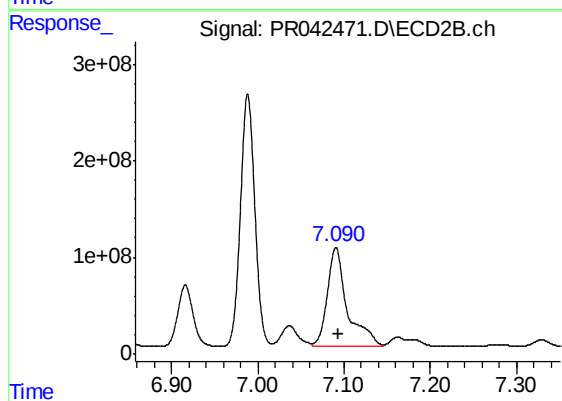
#35 AR-1260-5

R.T.: 7.629 min
Delta R.T.: -0.005 min
Response: 346211187
Conc: 212.94 ng/ml



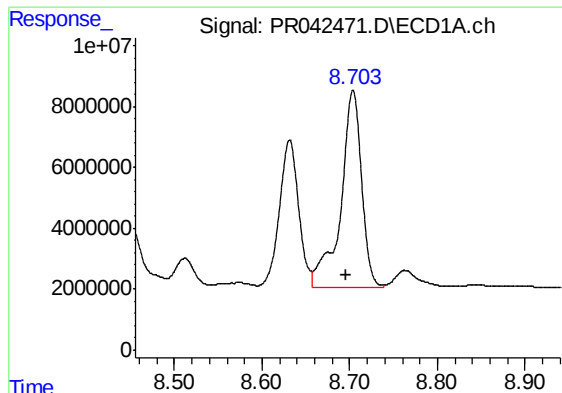
#36 AR-1262-1

R.T.: 8.186 min
Delta R.T.: 0.007 min
Response: 33078030
Conc: 351.41 ng/ml



#36 AR-1262-1

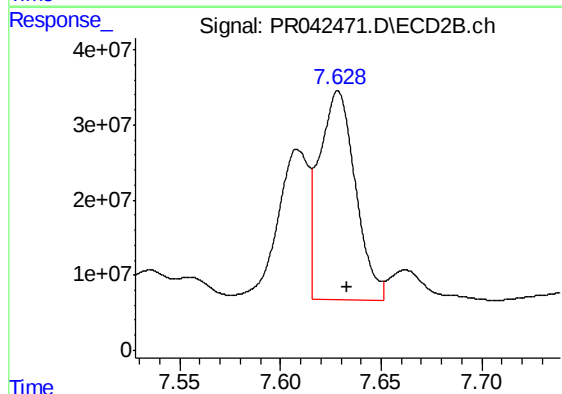
R.T.: 7.091 min
Delta R.T.: -0.003 min
Response: 1682133370
Conc: 3860.03 ng/ml



#37 AR-1262-2

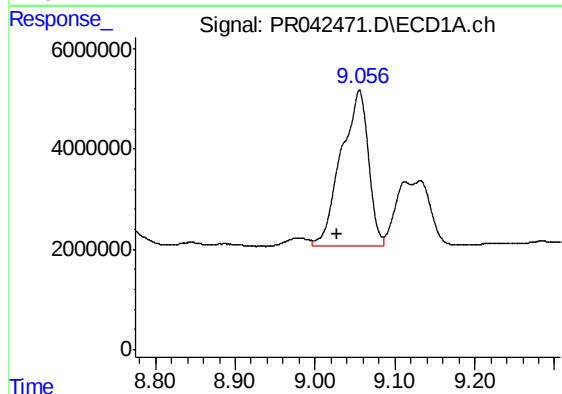
R.T.: 8.704 min
Delta R.T.: 0.008 min
Response: 107871176
Conc: 250.09 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



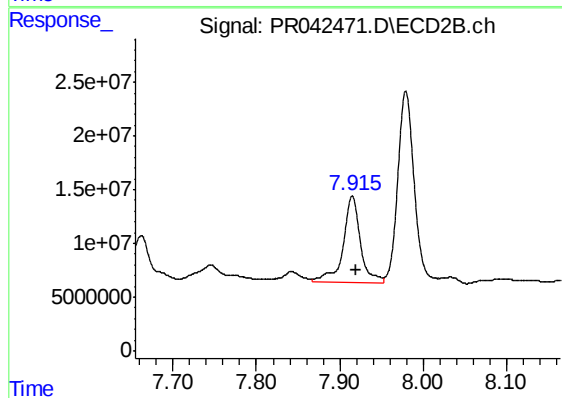
#37 AR-1262-2

R.T.: 7.629 min
Delta R.T.: -0.005 min
Response: 346211187
Conc: 201.11 ng/ml



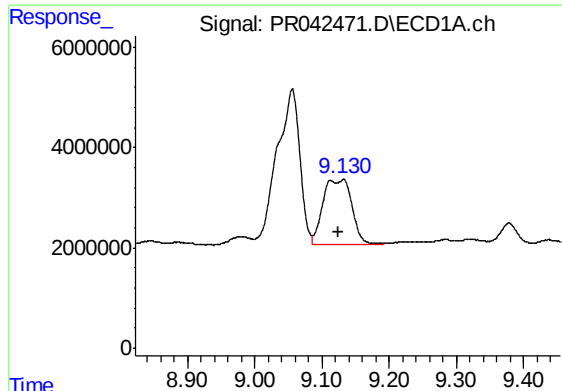
#38 AR-1262-3

R.T.: 9.055 min
Delta R.T.: 0.027 min
Response: 74168505
Conc: 266.08 ng/ml



#38 AR-1262-3

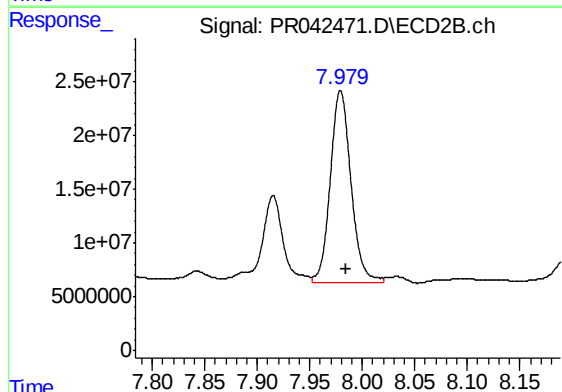
R.T.: 7.915 min
Delta R.T.: -0.005 min
Response: 115081840
Conc: 176.31 ng/ml



#39 AR-1262-4

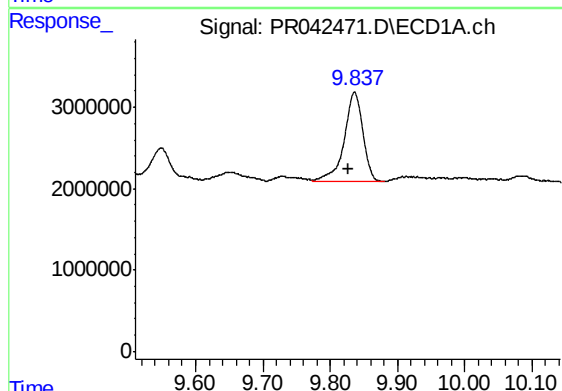
R.T.: 9.131 min
Delta R.T.: 0.006 min
Response: 39147244
Conc: 191.08 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



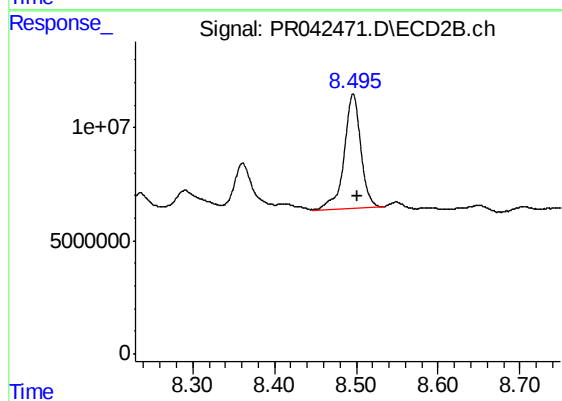
#39 AR-1262-4

R.T.: 7.979 min
Delta R.T.: -0.006 min
Response: 244095533
Conc: 208.88 ng/ml



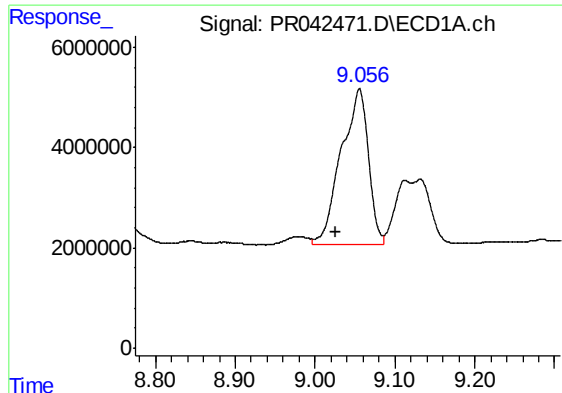
#40 AR-1262-5

R.T.: 9.836 min
Delta R.T.: 0.008 min
Response: 21161660
Conc: 146.70 ng/ml



#40 AR-1262-5

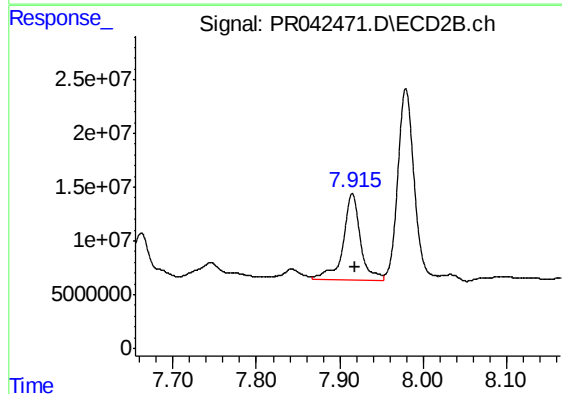
R.T.: 8.496 min
Delta R.T.: -0.005 min
Response: 71338398
Conc: 133.37 ng/ml



#41 AR-1268-1

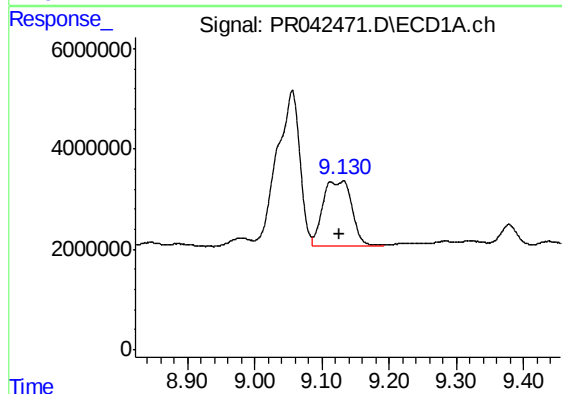
R.T.: 9.055 min
Delta R.T.: 0.030 min
Response: 74168505
Conc: 135.04 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



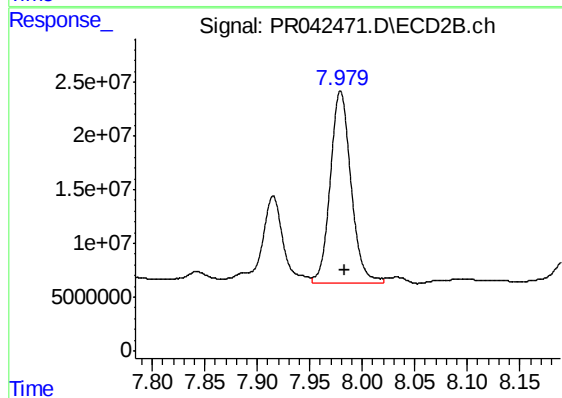
#41 AR-1268-1

R.T.: 7.915 min
Delta R.T.: -0.004 min
Response: 115081840
Conc: 52.49 ng/ml



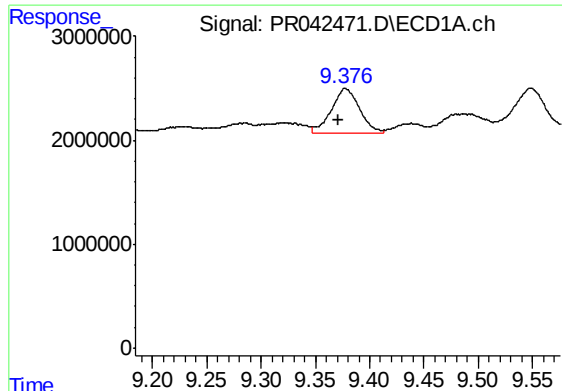
#42 AR-1268-2

R.T.: 9.131 min
Delta R.T.: 0.004 min
Response: 39147244
Conc: 78.74 ng/ml



#42 AR-1268-2

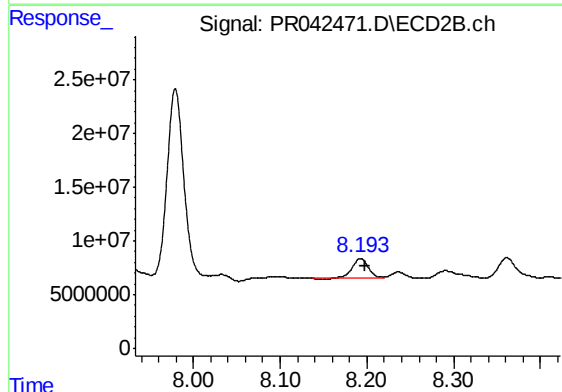
R.T.: 7.979 min
Delta R.T.: -0.004 min
Response: 244095533
Conc: 122.67 ng/ml



#43 AR-1268-3

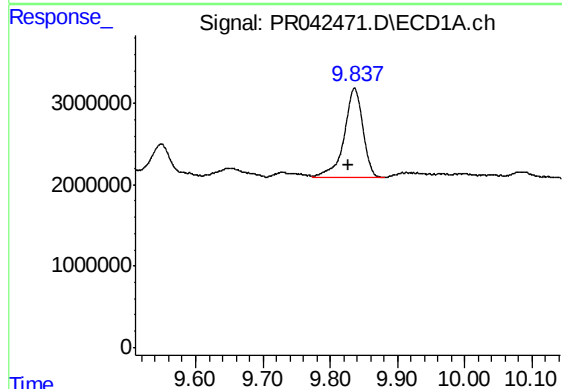
R.T.: 9.378 min
Delta R.T.: 0.007 min
Response: 7574474
Conc: 18.57 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



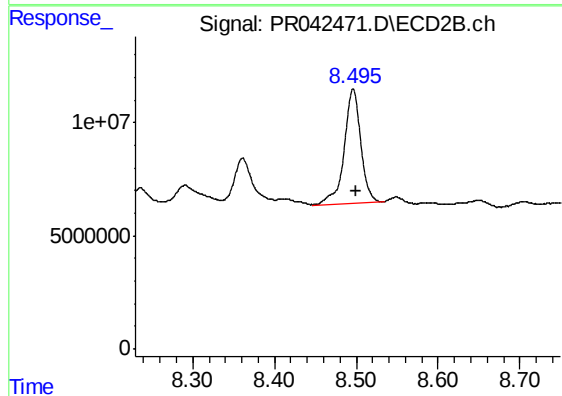
#43 AR-1268-3

R.T.: 8.193 min
Delta R.T.: -0.006 min
Response: 24277353
Conc: 14.49 ng/ml



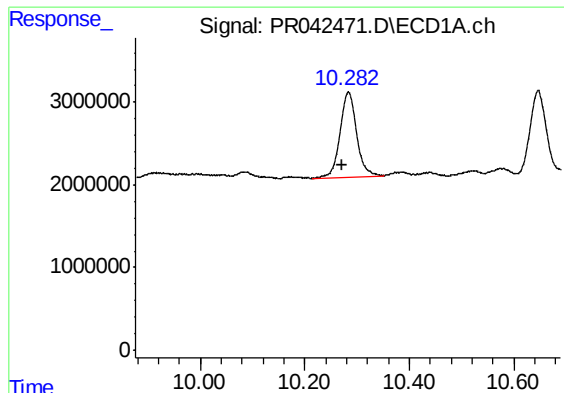
#44 AR-1268-4

R.T.: 9.836 min
Delta R.T.: 0.008 min
Response: 21161660
Conc: 120.61 ng/ml



#44 AR-1268-4

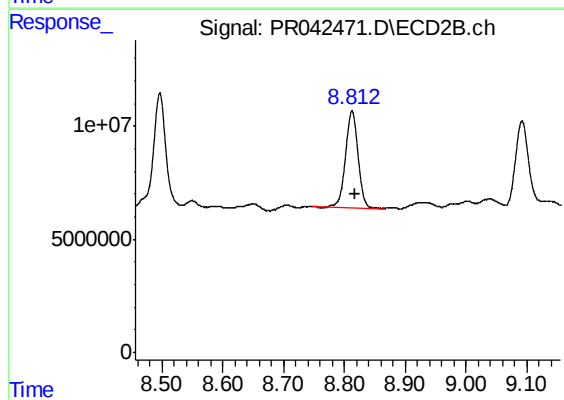
R.T.: 8.496 min
Delta R.T.: -0.004 min
Response: 71338398
Conc: 110.54 ng/ml



#45 AR-1268-5

R.T.: 10.284 min
Delta R.T.: 0.011 min
Response: 23041164
Conc: 17.68 ng/ml

Instrument :
ECD_R
ClientSampleId :
BFB93



#45 AR-1268-5

R.T.: 8.813 min
Delta R.T.: -0.006 min
Response: 61373355
Conc: 13.37 ng/ml