

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ081424\
 Data File : PQ067972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Aug 2024 21:24
 Operator : YP\AJ
 Sample : AR1248CCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_Q
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 14 02:24:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ080524.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Aug 09 02:37:44 2024
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ 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...	3.458	2.825	277.7E6	305.1E6	46.799	48.110
2) SA Decachlor...	8.736	7.606	190.7E6	272.3E6	49.492	48.317
Target Compounds						
3) L1 AR-1016-1	4.572	3.833	52088267	59330111	315.135	336.614
4) L1 AR-1016-2	4.592	3.848	68966774	65673145	234.239	225.227
5) L1 AR-1016-3	4.651	4.011	32320234	44116931	169.326	280.238 #
6) L1 AR-1016-4	4.742	4.058	36869794	93751233	245.073	630.892 #
7) L1 AR-1016-5	5.034	4.254	92397677	110.2E6	632.149	644.276
8) L2 AR-1221-1	0.000	3.022	0	1289258	N.D.	17.440 #
9) L2 AR-1221-2	3.740	3.096	4834476	5743253	84.525	103.120
10) L2 AR-1221-3	3.811	3.172	5723934	6509975	34.271	36.011
11) L3 AR-1232-1	3.811	3.172	5723934	6509975	42.012	44.306
12) L3 AR-1232-2	4.311	3.848	25526549	65673145	353.214	484.111 #
13) L3 AR-1232-3	4.592	4.011	68966774	44116931	488.930	582.529
14) L3 AR-1232-4	4.742	4.095	36869794	87537700	525.640	1268.304 #
15) L3 AR-1232-5	4.841	4.254	76582432	110.2E6	1570.368	1449.553
16) L4 AR-1242-1	4.572	3.833	52088267	59330111	387.017	413.890
17) L4 AR-1242-2	4.592	3.848	68966774	65673145	294.509	280.263
18) L4 AR-1242-3	4.651	4.011	32320234	44116931	215.571	341.712 #
19) L4 AR-1242-4	4.742	4.095	36869794	87537700	316.085	670.364 #
20) L4 AR-1242-5	5.471	4.593	81651877	150.5E6	719.345	984.732 #
21) L5 AR-1248-1	4.572	3.833	52088267	59330111	498.859	521.750
22) L5 AR-1248-2	4.841	4.058	76582432	93751233	453.590	447.867
23) L5 AR-1248-3	5.034	4.095	92397677	87537700	455.444	442.264
24) L5 AR-1248-4	5.436	4.254	99627337	110.2E6	524.082	467.309
25) L5 AR-1248-5	5.471	4.632	81651877	105.1E6	407.311	545.093 #
26) L6 AR-1254-1	5.406	4.593	81505831	150.5E6	366.405	448.035
27) L6 AR-1254-2	5.625	4.740	79350728	49354328	245.758	160.374 #
28) L6 AR-1254-3	5.987	5.123	57610365	71335127	175.815	159.924
29) L6 AR-1254-4	6.278	5.349	42798485	44037523	213.526	195.234
30) L6 AR-1254-5	6.698	5.756	9608415	16963024	38.222	41.242
31) L7 AR-1260-1	6.158	5.256	5858169	32038036	21.381	94.269 #
32) L7 AR-1260-2	6.421	5.442	9353634	5014750	29.013	12.810 #
33) L7 AR-1260-3	0.000	5.579	0	8220671	N.D.	21.876 #
34) L7 AR-1260-4	6.979	6.044	3455788	2153202	13.548	7.443 #
35) L7 AR-1260-5	7.321	6.290	1791217	3214267	4.047	5.395 #
36) L8 AR-1262-1	0.000	5.819	0	2231773	N.D.	4.998 #
37) L8 AR-1262-2	7.321	6.290	1791217	3214267	3.311	4.699 #
38) L8 AR-1262-3	7.602	6.567	978009	2791662	2.983	9.240 #
39) L8 AR-1262-4	0.000	6.628	0	4241573	N.D.	8.059 #
40) L8 AR-1262-5	0.000	7.084f	0	11402489	N.D.	53.247 #
41) L9 AR-1268-1	7.602	6.567	978009	2791662	1.670	3.317 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ081424\
 Data File : PQ067972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 13 Aug 2024 21:24
 Operator : YP\AJ
 Sample : AR1248CCC500
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_Q
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 14 02:24:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ080524.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Fri Aug 09 02:37:44 2024
 Response via : Initial Calibration
 Integrator: ChemStation

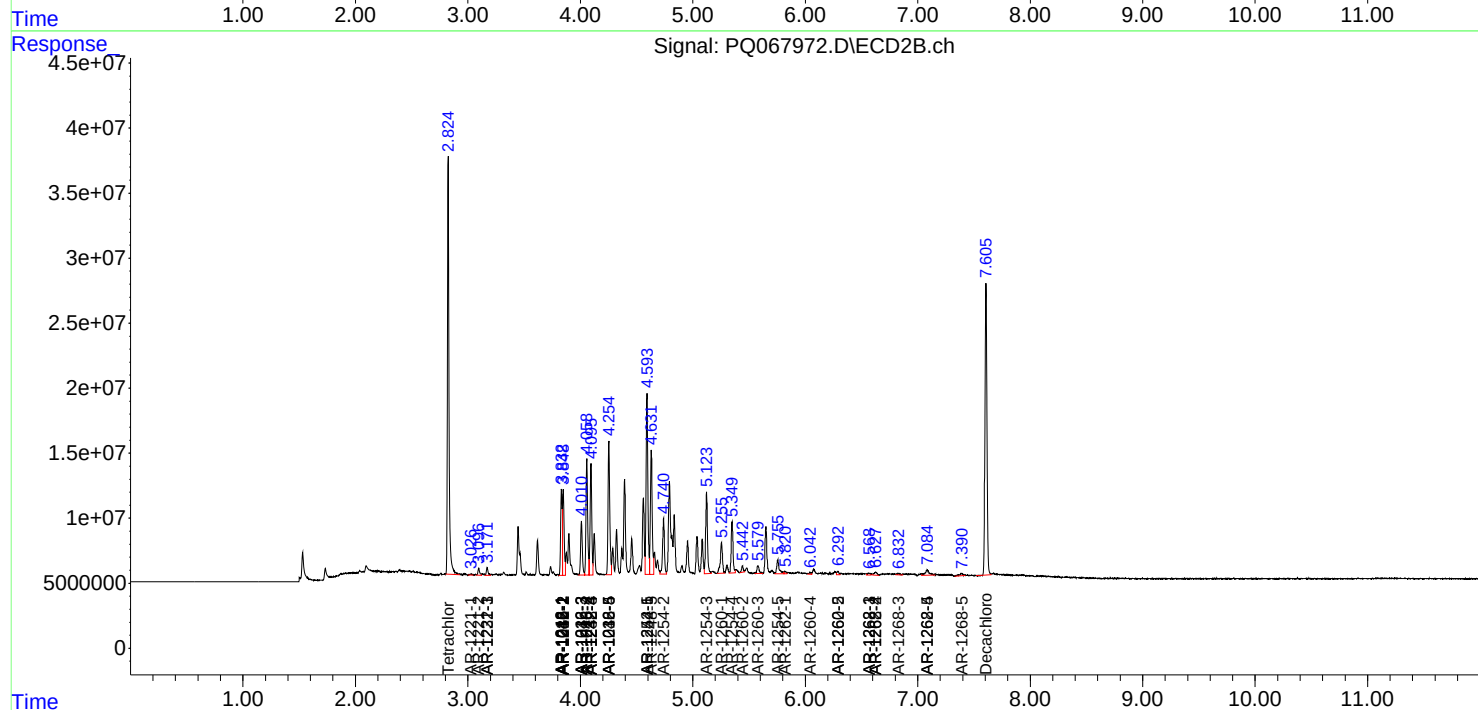
Volume Inj. : 2 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

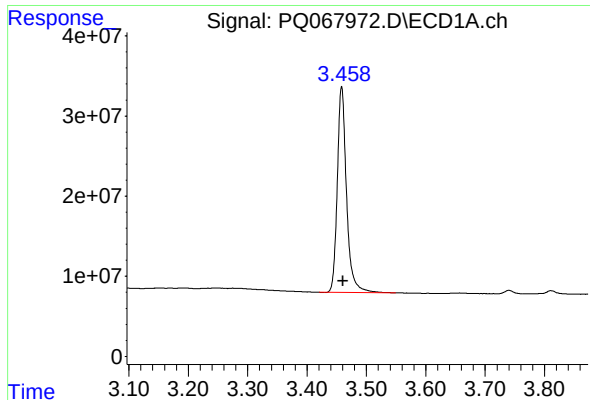
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
42) L9	AR-1268-2	0.000	6.628	0	4241573	N.D.	5.538 #
43) L9	AR-1268-3	0.000	6.833	0	2094590	N.D.	3.002 #
44) L9	AR-1268-4	0.000	7.084f	0	11402489	N.D.	48.510 #
45) L9	AR-1268-5	8.498	7.389	1264597	3749549	1.020	1.955 #

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

Instrument :
ECD_Q
ClientSampleId :

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

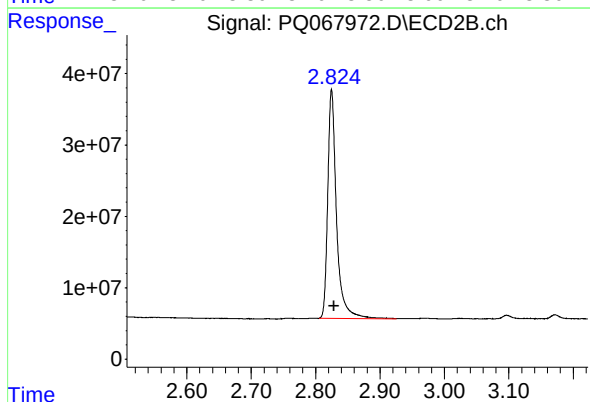




#1 Tetrachloro-m-xylene

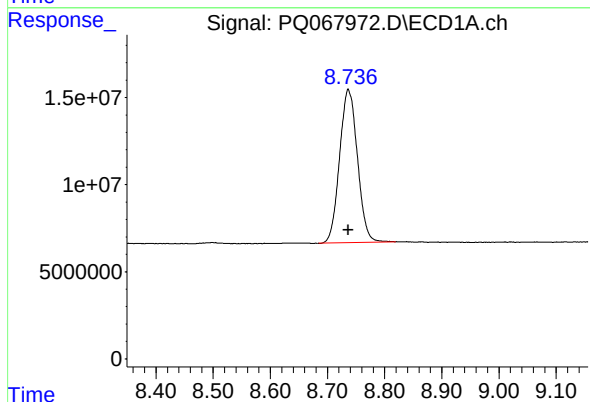
R.T.: 3.458 min
Delta R.T.: -0.003 min
Response: 277664782
Conc: 46.80 ng/ml

Instrument :
ECD_Q
ClientSampleId :



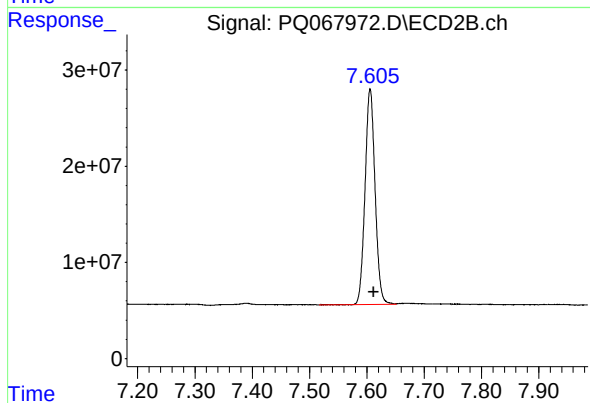
#1 Tetrachloro-m-xylene

R.T.: 2.825 min
Delta R.T.: -0.004 min
Response: 305118553
Conc: 48.11 ng/ml



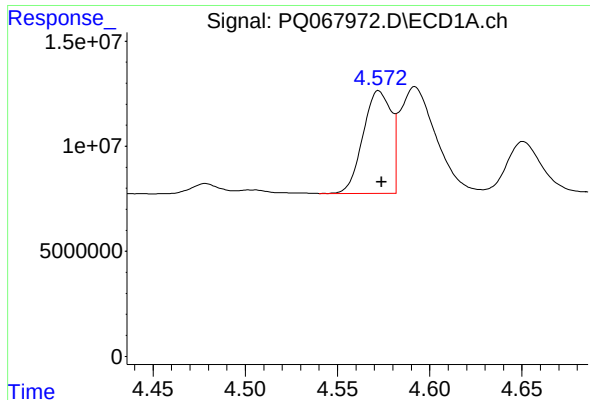
#2 Decachlorobiphenyl

R.T.: 8.736 min
Delta R.T.: 0.000 min
Response: 190695262
Conc: 49.49 ng/ml



#2 Decachlorobiphenyl

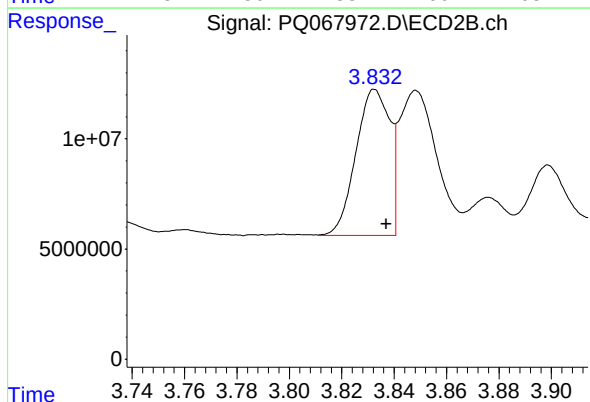
R.T.: 7.606 min
Delta R.T.: -0.006 min
Response: 272316391
Conc: 48.32 ng/ml



#3 AR-1016-1

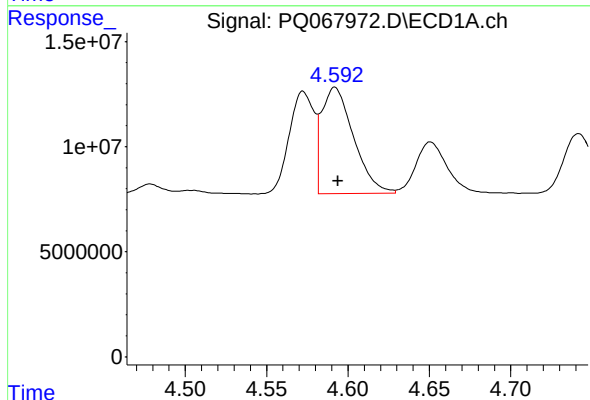
R.T.: 4.572 min
Delta R.T.: -0.001 min
Response: 52088267
Conc: 315.14 ng/ml

Instrument :
ECD_Q
ClientSampleId :



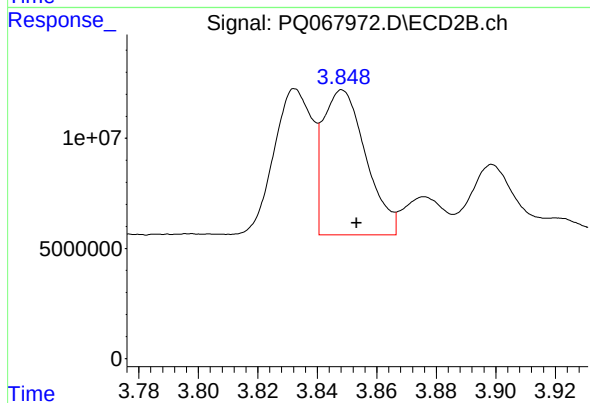
#3 AR-1016-1

R.T.: 3.833 min
Delta R.T.: -0.004 min
Response: 59330111
Conc: 336.61 ng/ml



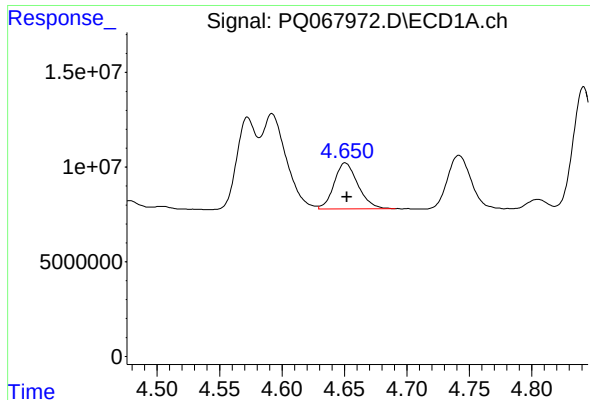
#4 AR-1016-2

R.T.: 4.592 min
Delta R.T.: -0.002 min
Response: 68966774
Conc: 234.24 ng/ml



#4 AR-1016-2

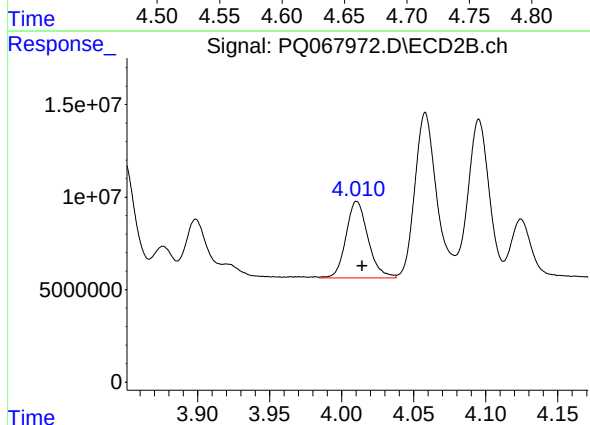
R.T.: 3.848 min
Delta R.T.: -0.005 min
Response: 65673145
Conc: 225.23 ng/ml



#5 AR-1016-3

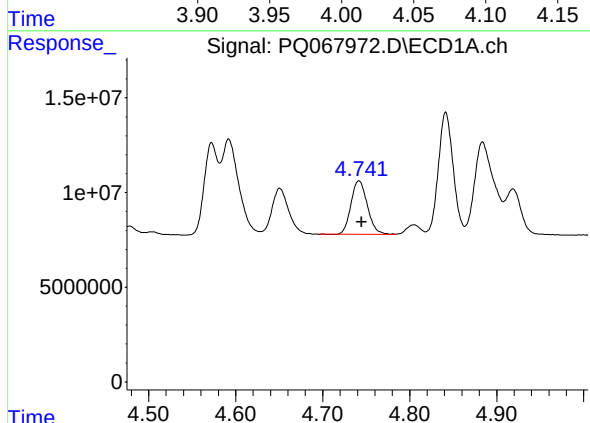
R.T.: 4.651 min
Delta R.T.: -0.001 min
Response: 32320234
Conc: 169.33 ng/ml

Instrument :
ECD_Q
ClientSampleId :



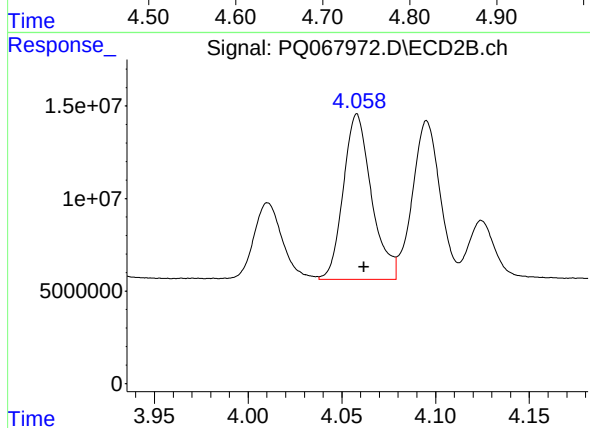
#5 AR-1016-3

R.T.: 4.011 min
Delta R.T.: -0.004 min
Response: 44116931
Conc: 280.24 ng/ml



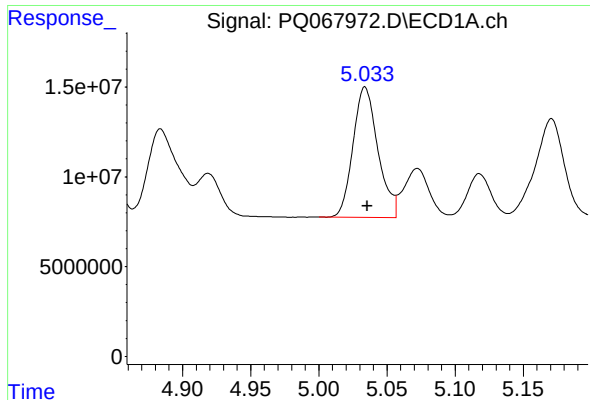
#6 AR-1016-4

R.T.: 4.742 min
Delta R.T.: -0.003 min
Response: 36869794
Conc: 245.07 ng/ml



#6 AR-1016-4

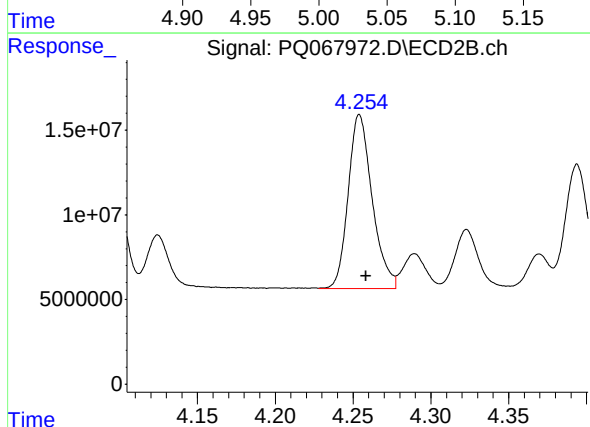
R.T.: 4.058 min
Delta R.T.: -0.004 min
Response: 93751233
Conc: 630.89 ng/ml



#7 AR-1016-5

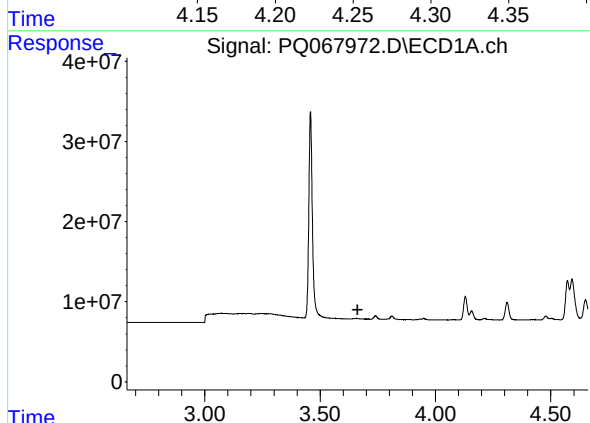
R.T.: 5.034 min
Delta R.T.: -0.002 min
Response: 92397677
Conc: 632.15 ng/ml

Instrument :
ECD_Q
ClientSampleId :



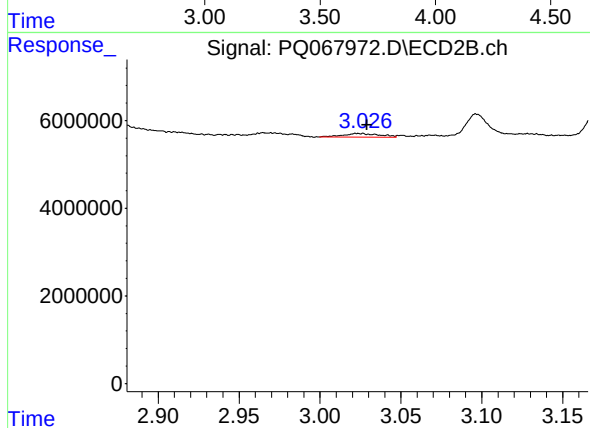
#7 AR-1016-5

R.T.: 4.254 min
Delta R.T.: -0.004 min
Response: 110213156
Conc: 644.28 ng/ml



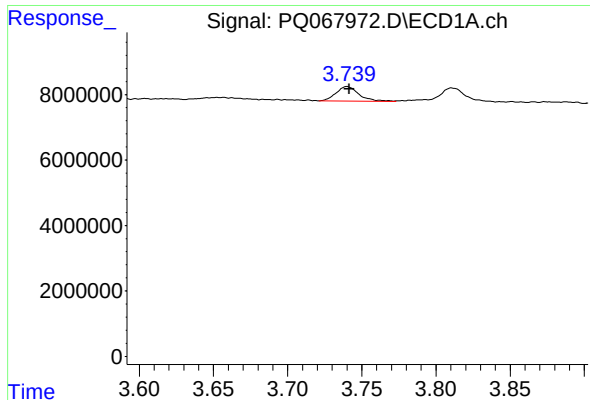
#8 AR-1221-1

R.T.: 0.000 min
Exp R.T.: 3.662 min
Response: 0
Conc: N.D.



#8 AR-1221-1

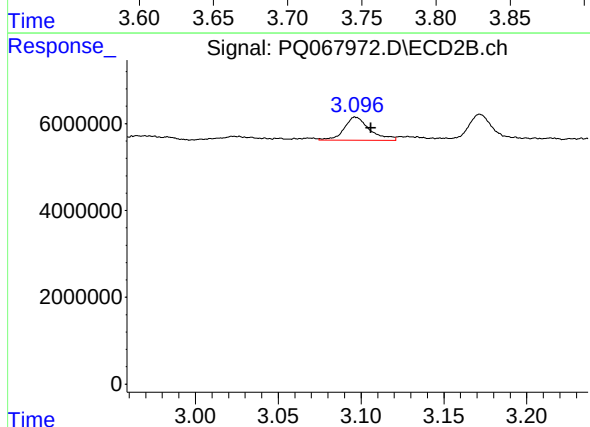
R.T.: 3.022 min
Delta R.T.: -0.007 min
Response: 1289258
Conc: 17.44 ng/ml



#9 AR-1221-2

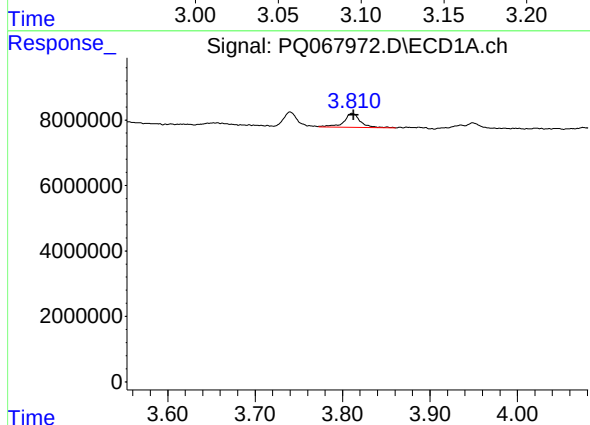
R.T.: 3.740 min
Delta R.T.: -0.002 min
Response: 4834476
Conc: 84.53 ng/ml

Instrument :
ECD_Q
ClientSampleId :



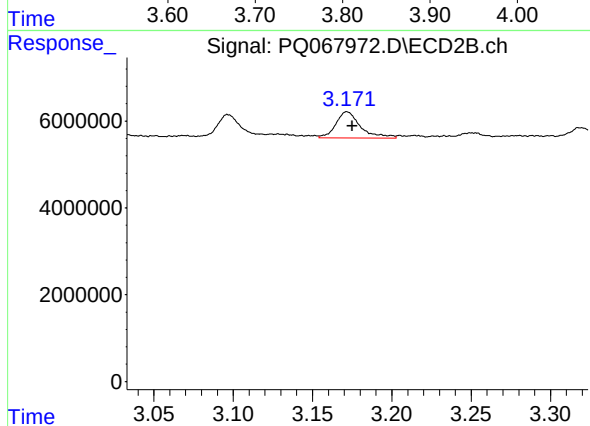
#9 AR-1221-2

R.T.: 3.096 min
Delta R.T.: -0.010 min
Response: 5743253
Conc: 103.12 ng/ml



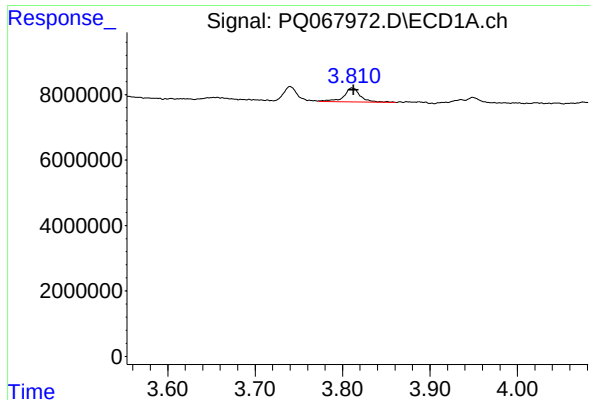
#10 AR-1221-3

R.T.: 3.811 min
Delta R.T.: -0.002 min
Response: 5723934
Conc: 34.27 ng/ml



#10 AR-1221-3

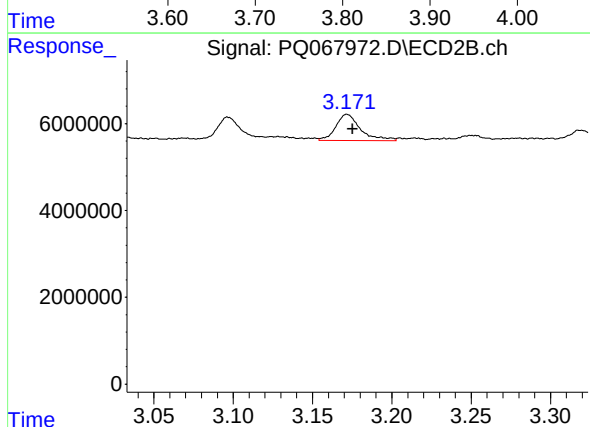
R.T.: 3.172 min
Delta R.T.: -0.003 min
Response: 6509975
Conc: 36.01 ng/ml



#11 AR-1232-1

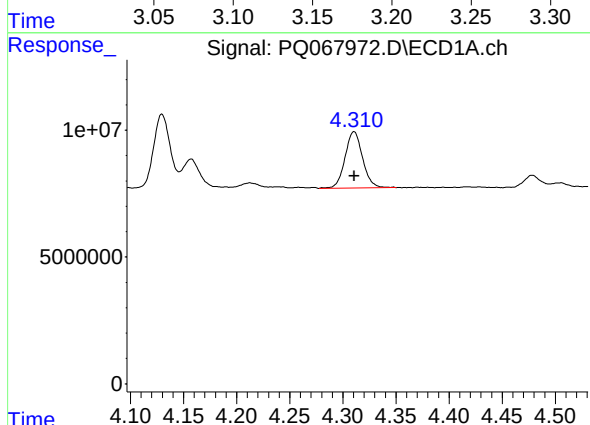
R.T.: 3.811 min
Delta R.T.: -0.002 min
Response: 5723934
Conc: 42.01 ng/ml

Instrument :
ECD_Q
ClientSampleId :



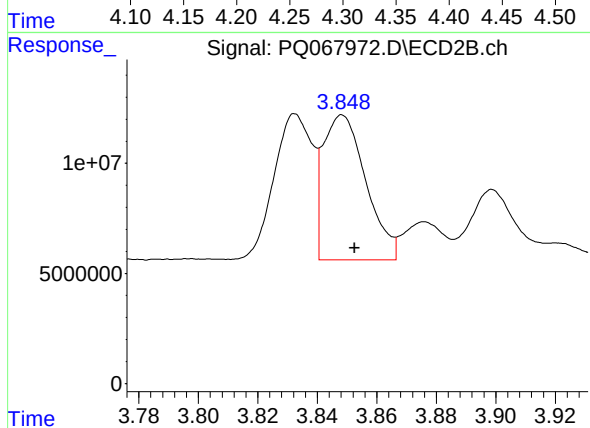
#11 AR-1232-1

R.T.: 3.172 min
Delta R.T.: -0.004 min
Response: 6509975
Conc: 44.31 ng/ml



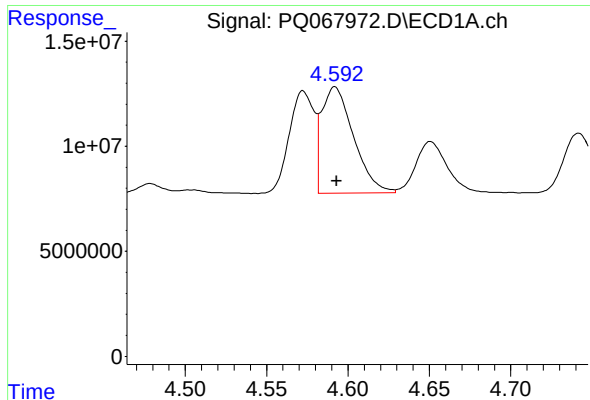
#12 AR-1232-2

R.T.: 4.311 min
Delta R.T.: 0.000 min
Response: 25526549
Conc: 353.21 ng/ml



#12 AR-1232-2

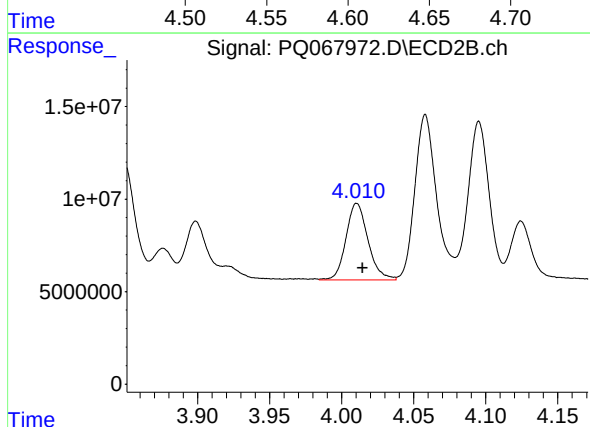
R.T.: 3.848 min
Delta R.T.: -0.004 min
Response: 65673145
Conc: 484.11 ng/ml



#13 AR-1232-3

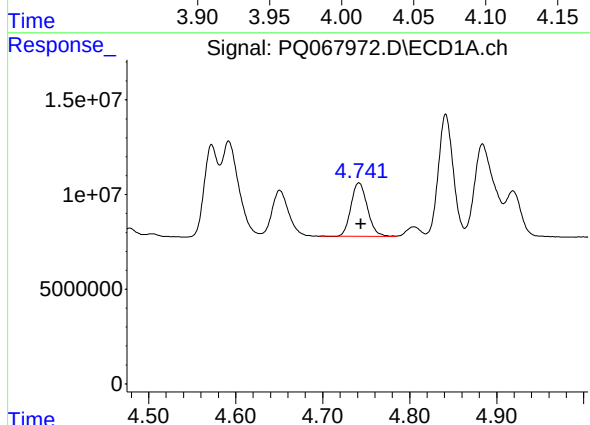
R.T.: 4.592 min
Delta R.T.: -0.001 min
Response: 68966774
Conc: 488.93 ng/ml

Instrument :
ECD_Q
ClientSampleId :



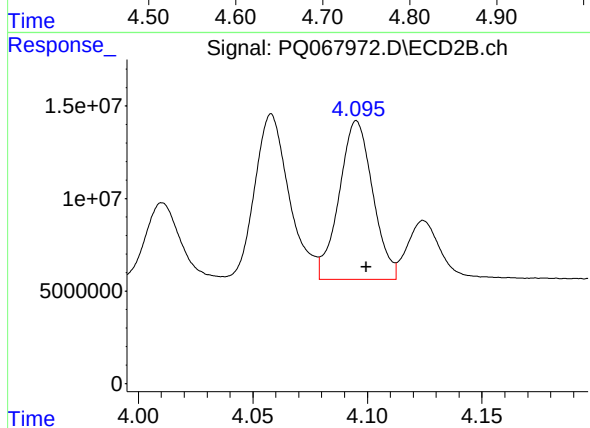
#13 AR-1232-3

R.T.: 4.011 min
Delta R.T.: -0.004 min
Response: 44116931
Conc: 582.53 ng/ml



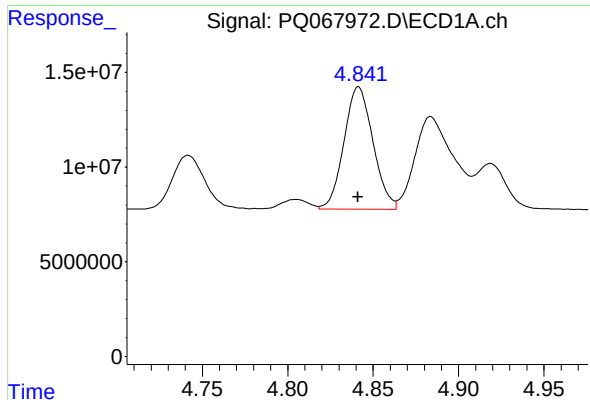
#14 AR-1232-4

R.T.: 4.742 min
Delta R.T.: -0.002 min
Response: 36869794
Conc: 525.64 ng/ml



#14 AR-1232-4

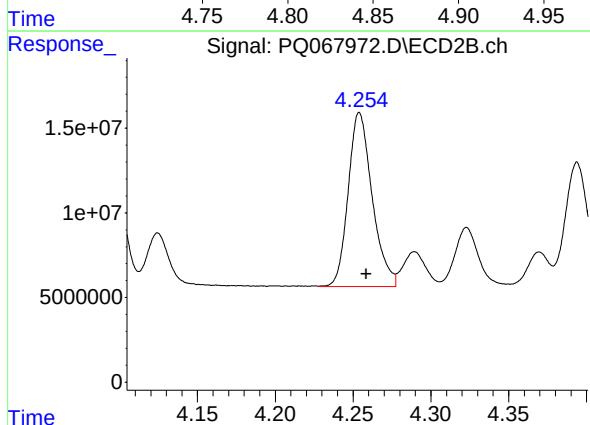
R.T.: 4.095 min
Delta R.T.: -0.004 min
Response: 87537700
Conc: 1268.30 ng/ml



#15 AR-1232-5

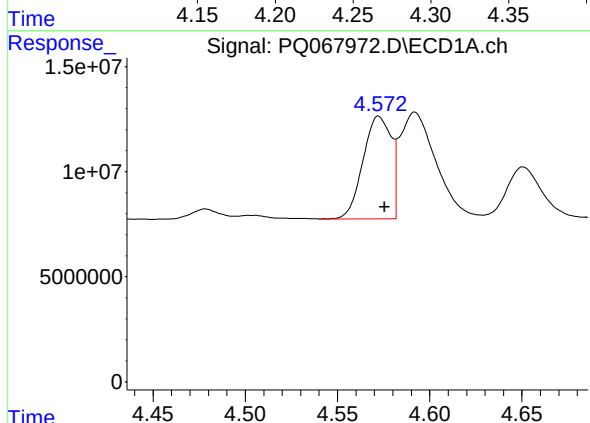
R.T.: 4.841 min
Delta R.T.: 0.000 min
Response: 76582432
Conc: 1570.37 ng/ml

Instrument :
ECD_Q
ClientSampleId :



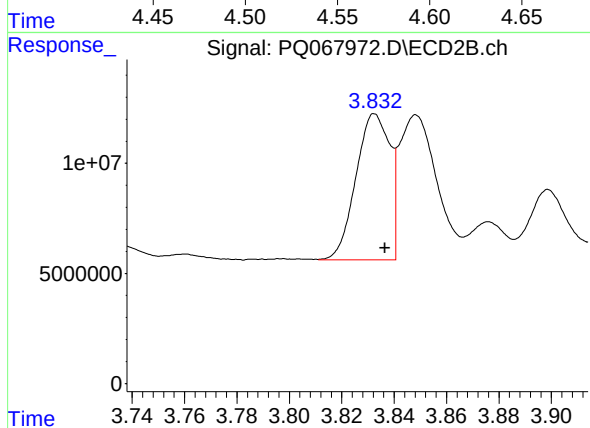
#15 AR-1232-5

R.T.: 4.254 min
Delta R.T.: -0.004 min
Response: 110213156
Conc: 1449.55 ng/ml



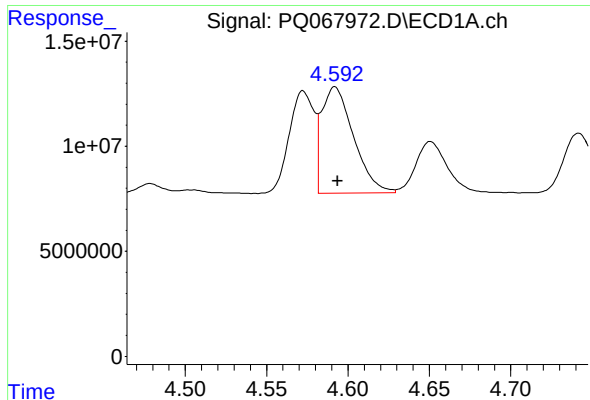
#16 AR-1242-1

R.T.: 4.572 min
Delta R.T.: -0.003 min
Response: 52088267
Conc: 387.02 ng/ml



#16 AR-1242-1

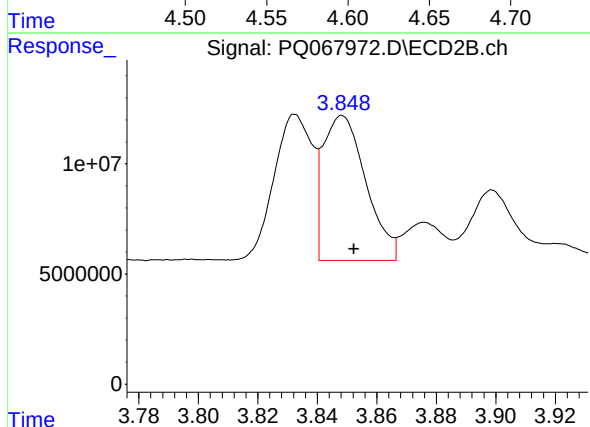
R.T.: 3.833 min
Delta R.T.: -0.004 min
Response: 59330111
Conc: 413.89 ng/ml



#17 AR-1242-2

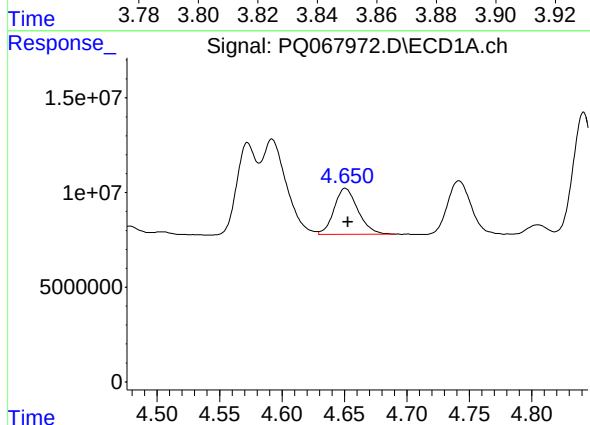
R.T.: 4.592 min
Delta R.T.: -0.002 min
Response: 68966774
Conc: 294.51 ng/ml

Instrument :
ECD_Q
ClientSampleId :



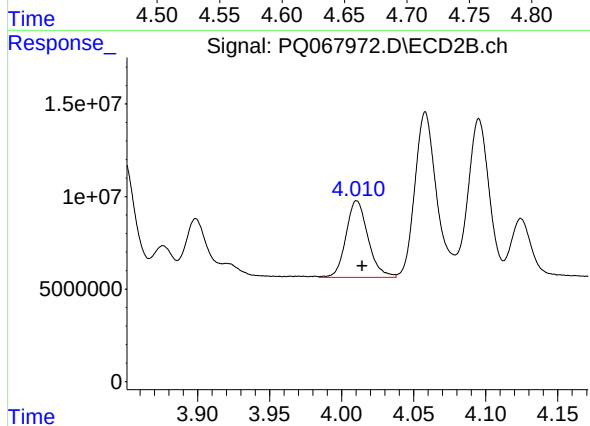
#17 AR-1242-2

R.T.: 3.848 min
Delta R.T.: -0.004 min
Response: 65673145
Conc: 280.26 ng/ml



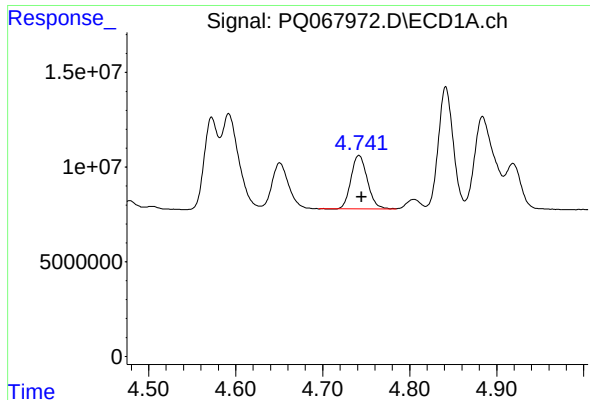
#18 AR-1242-3

R.T.: 4.651 min
Delta R.T.: -0.002 min
Response: 32320234
Conc: 215.57 ng/ml



#18 AR-1242-3

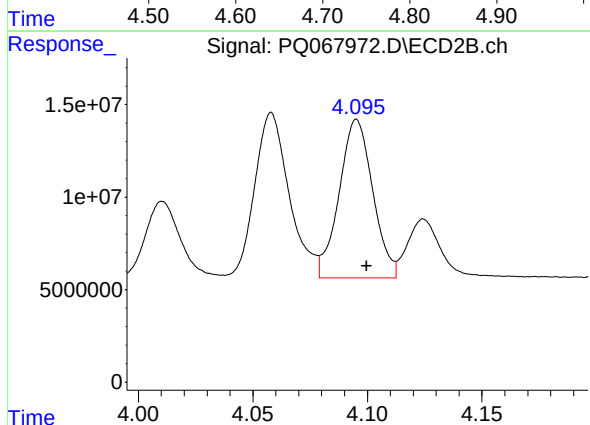
R.T.: 4.011 min
Delta R.T.: -0.004 min
Response: 44116931
Conc: 341.71 ng/ml



#19 AR-1242-4

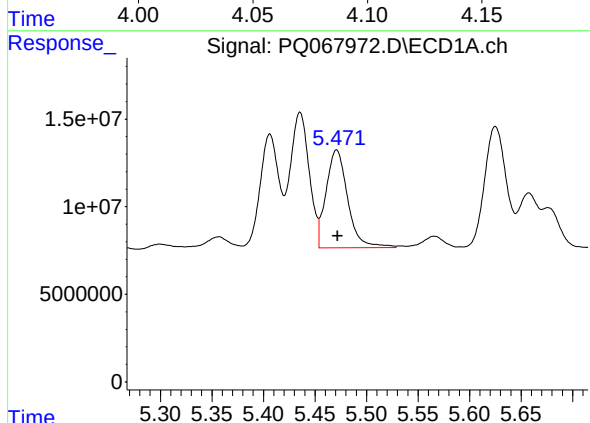
R.T.: 4.742 min
Delta R.T.: -0.003 min
Response: 36869794
Conc: 316.08 ng/ml

Instrument :
ECD_Q
ClientSampleId :



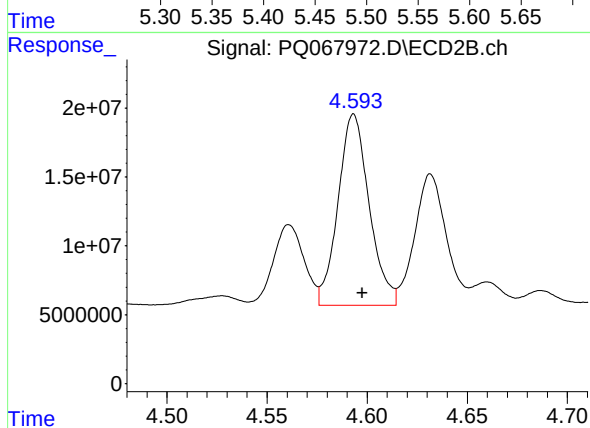
#19 AR-1242-4

R.T.: 4.095 min
Delta R.T.: -0.004 min
Response: 87537700
Conc: 670.36 ng/ml



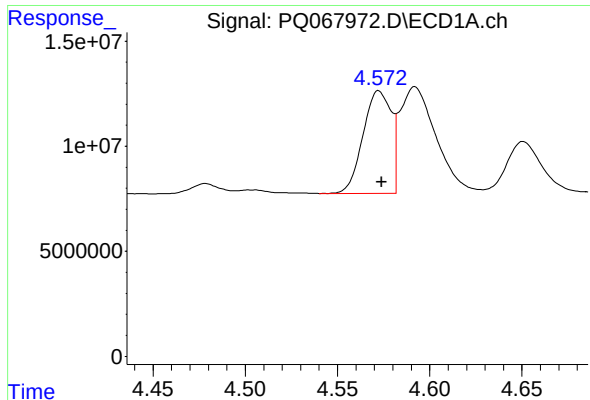
#20 AR-1242-5

R.T.: 5.471 min
Delta R.T.: 0.000 min
Response: 81651877
Conc: 719.35 ng/ml



#20 AR-1242-5

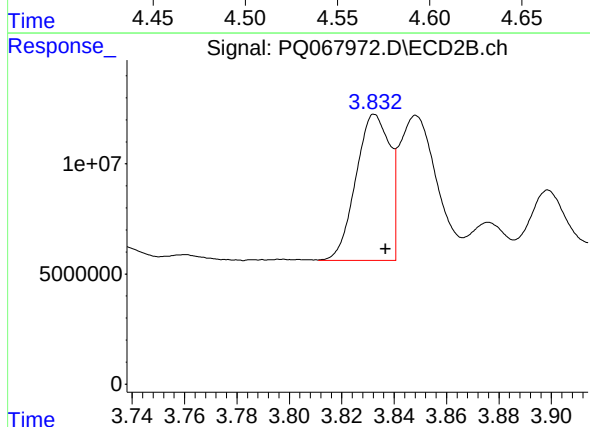
R.T.: 4.593 min
Delta R.T.: -0.004 min
Response: 150493027
Conc: 984.73 ng/ml



#21 AR-1248-1

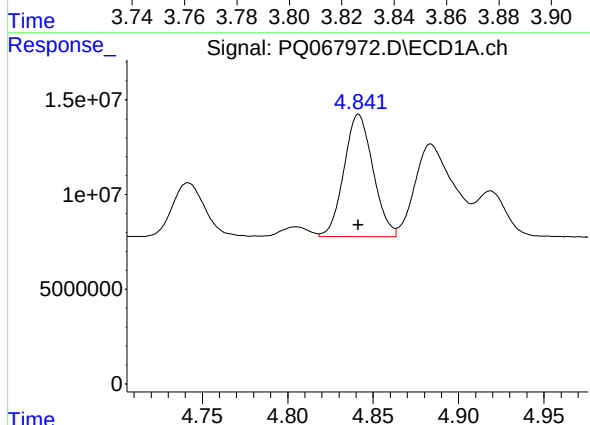
R.T.: 4.572 min
Delta R.T.: -0.001 min
Response: 52088267
Conc: 498.86 ng/ml

Instrument :
ECD_Q
ClientSampleId :



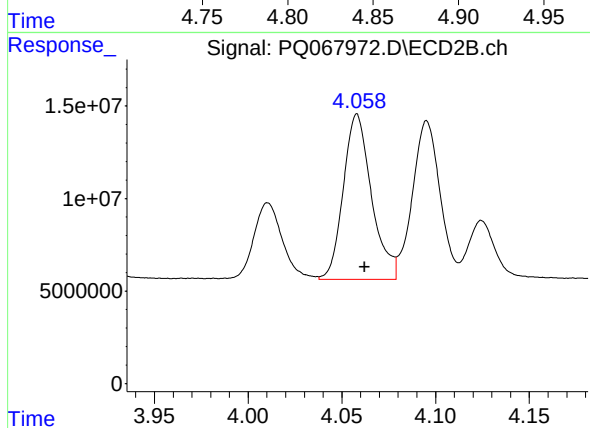
#21 AR-1248-1

R.T.: 3.833 min
Delta R.T.: -0.004 min
Response: 59330111
Conc: 521.75 ng/ml



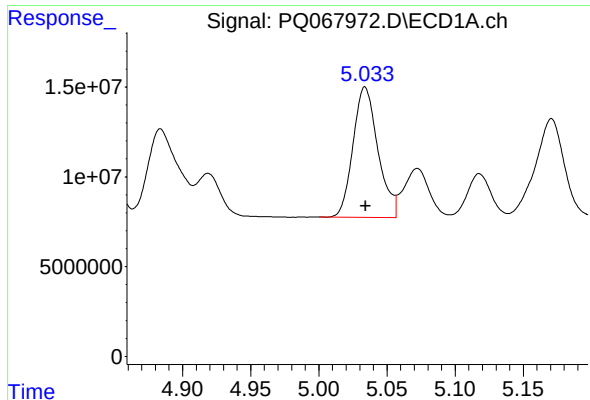
#22 AR-1248-2

R.T.: 4.841 min
Delta R.T.: 0.000 min
Response: 76582432
Conc: 453.59 ng/ml



#22 AR-1248-2

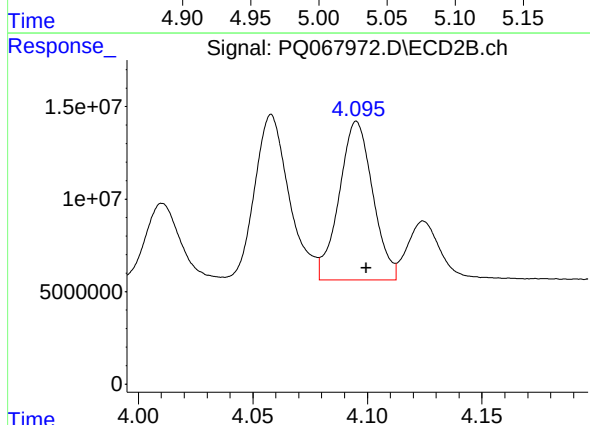
R.T.: 4.058 min
Delta R.T.: -0.004 min
Response: 93751233
Conc: 447.87 ng/ml



#23 AR-1248-3

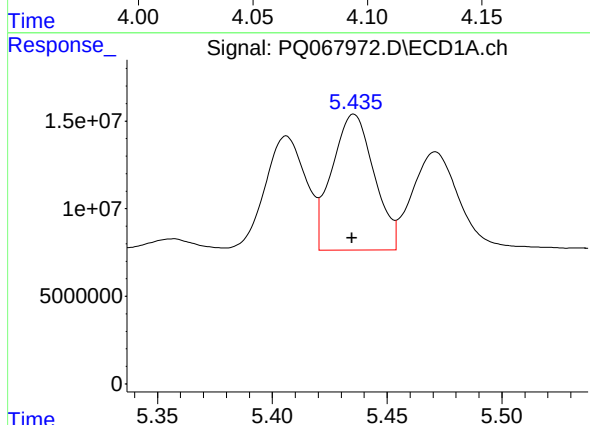
R.T.: 5.034 min
Delta R.T.: 0.000 min
Response: 92397677
Conc: 455.44 ng/ml

Instrument :
ECD_Q
ClientSampleId :



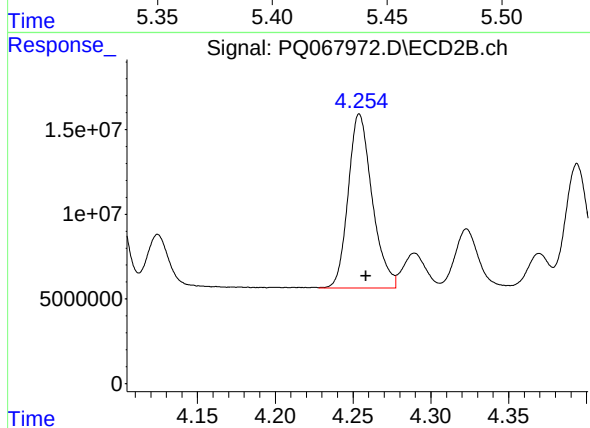
#23 AR-1248-3

R.T.: 4.095 min
Delta R.T.: -0.004 min
Response: 87537700
Conc: 442.26 ng/ml



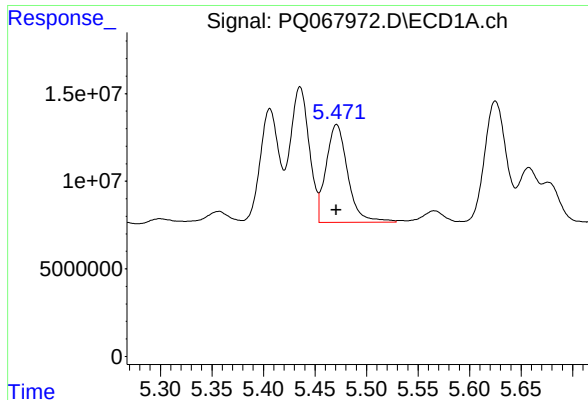
#24 AR-1248-4

R.T.: 5.436 min
Delta R.T.: 0.000 min
Response: 99627337
Conc: 524.08 ng/ml



#24 AR-1248-4

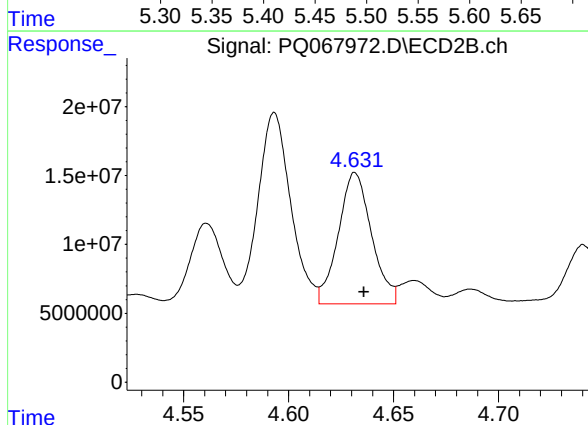
R.T.: 4.254 min
Delta R.T.: -0.004 min
Response: 110213156
Conc: 467.31 ng/ml



#25 AR-1248-5

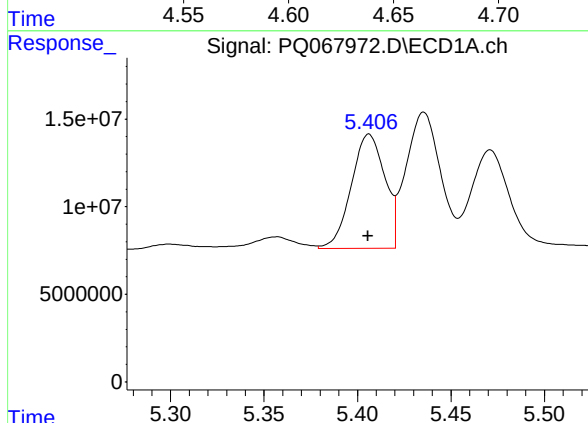
R.T.: 5.471 min
Delta R.T.: 0.000 min
Response: 81651877
Conc: 407.31 ng/ml

Instrument :
ECD_Q
ClientSampleId :



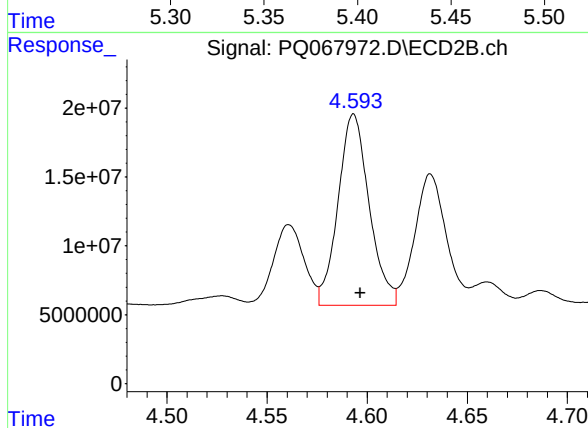
#25 AR-1248-5

R.T.: 4.632 min
Delta R.T.: -0.004 min
Response: 105082957
Conc: 545.09 ng/ml



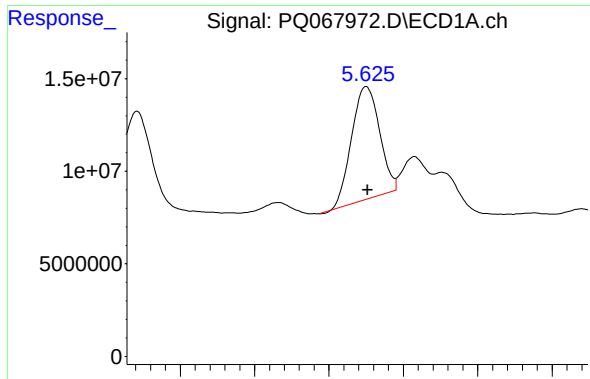
#26 AR-1254-1

R.T.: 5.406 min
Delta R.T.: 0.000 min
Response: 81505831
Conc: 366.41 ng/ml



#26 AR-1254-1

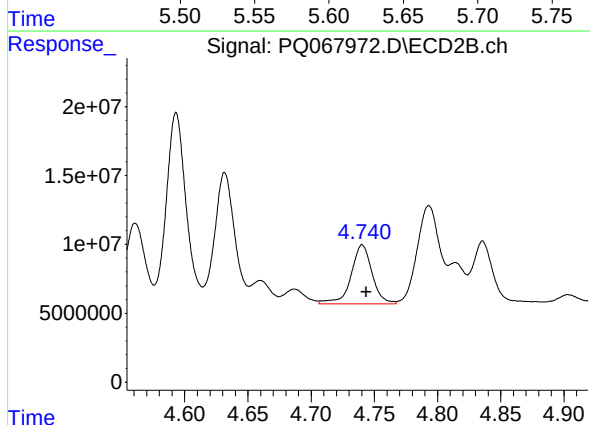
R.T.: 4.593 min
Delta R.T.: -0.003 min
Response: 150493027
Conc: 448.03 ng/ml



#27 AR-1254-2

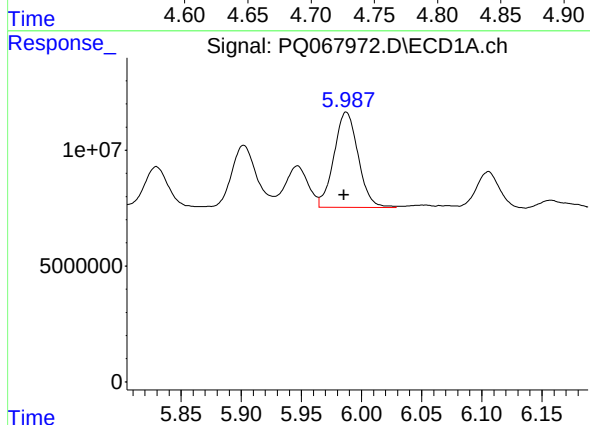
R.T.: 5.625 min
Delta R.T.: -0.001 min
Response: 79350728
Conc: 245.76 ng/ml

Instrument :
ECD_Q
ClientSampleId :



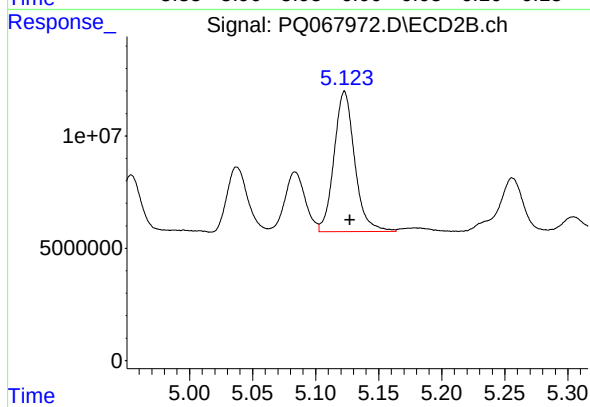
#27 AR-1254-2

R.T.: 4.740 min
Delta R.T.: -0.003 min
Response: 49354328
Conc: 160.37 ng/ml



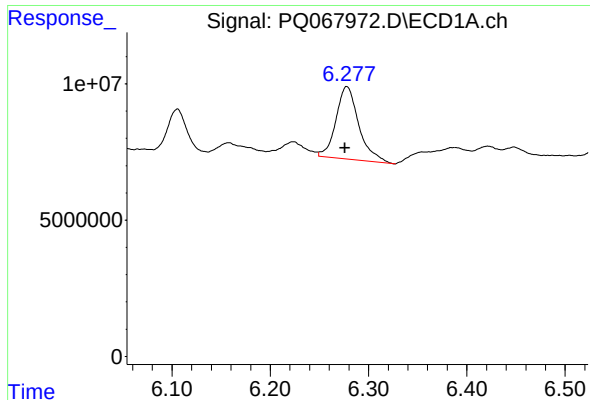
#28 AR-1254-3

R.T.: 5.987 min
Delta R.T.: 0.002 min
Response: 57610365
Conc: 175.82 ng/ml



#28 AR-1254-3

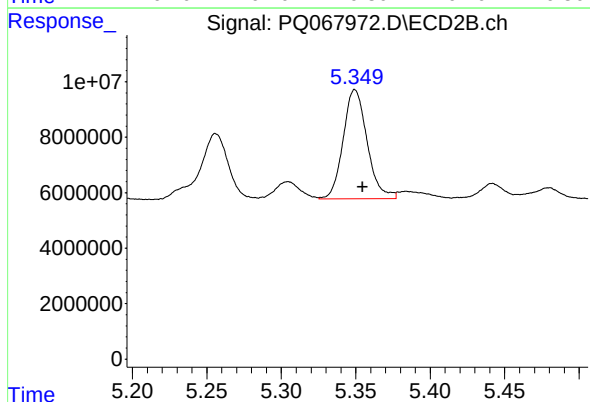
R.T.: 5.123 min
Delta R.T.: -0.004 min
Response: 71335127
Conc: 159.92 ng/ml



#29 AR-1254-4

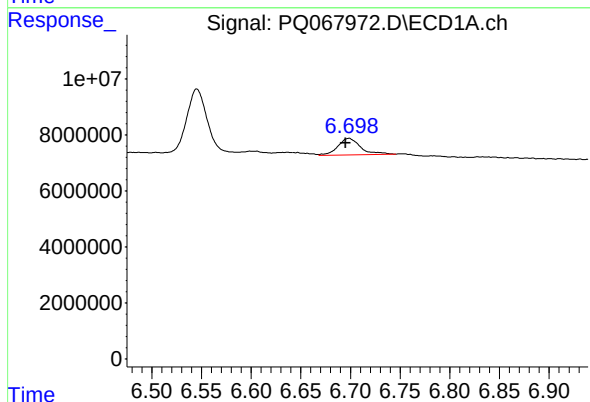
R.T.: 6.278 min
Delta R.T.: 0.002 min
Response: 42798485
Conc: 213.53 ng/ml

Instrument :
ECD_Q
ClientSampleId :



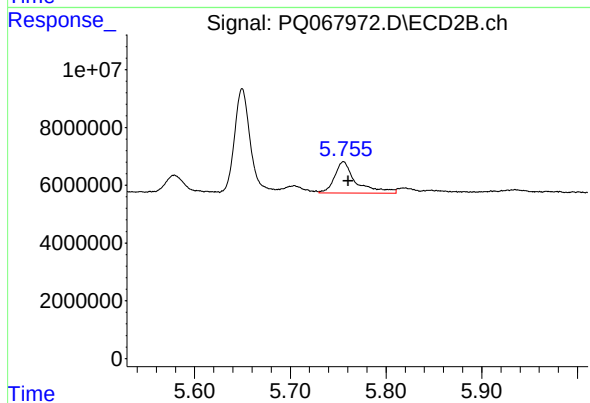
#29 AR-1254-4

R.T.: 5.349 min
Delta R.T.: -0.005 min
Response: 44037523
Conc: 195.23 ng/ml



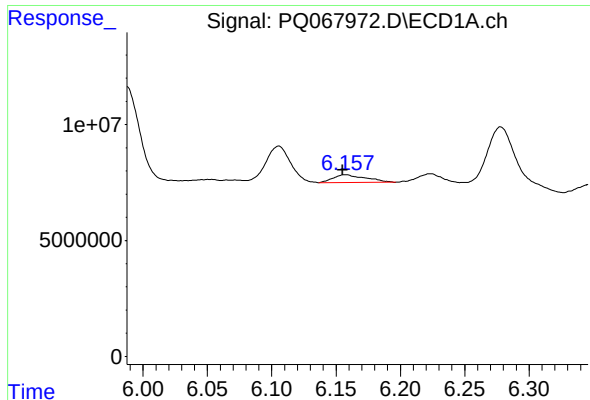
#30 AR-1254-5

R.T.: 6.698 min
Delta R.T.: 0.003 min
Response: 9608415
Conc: 38.22 ng/ml



#30 AR-1254-5

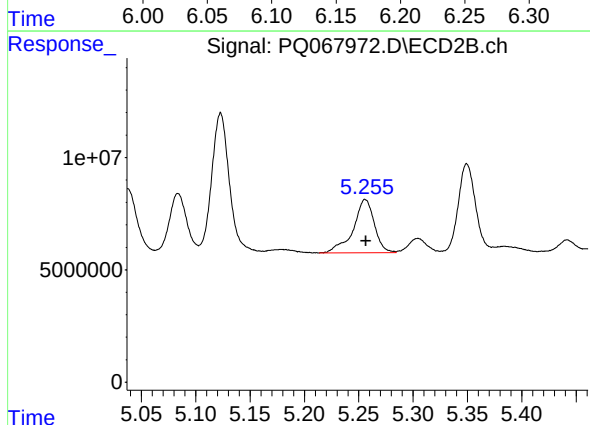
R.T.: 5.756 min
Delta R.T.: -0.005 min
Response: 16963024
Conc: 41.24 ng/ml



#31 AR-1260-1

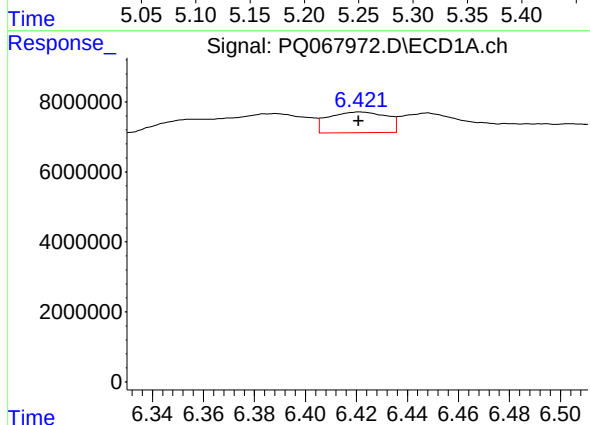
R.T.: 6.158 min
Delta R.T.: 0.002 min
Response: 5858169
Conc: 21.38 ng/ml

Instrument :
ECD_Q
ClientSampleId :



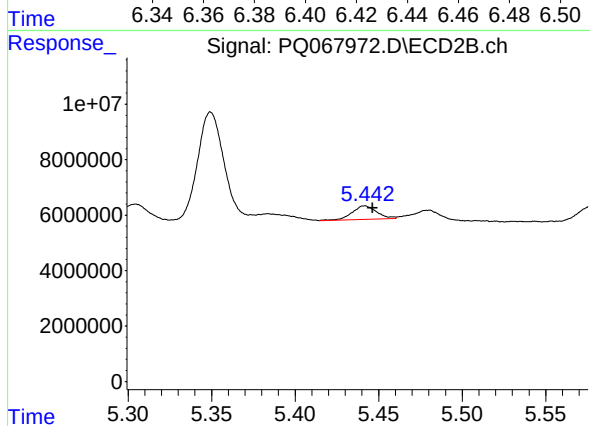
#31 AR-1260-1

R.T.: 5.256 min
Delta R.T.: 0.000 min
Response: 32038036
Conc: 94.27 ng/ml



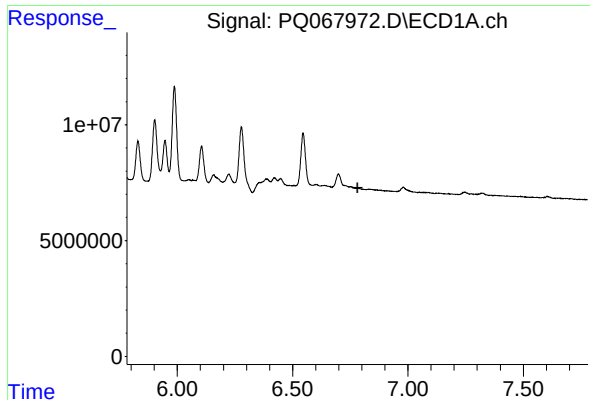
#32 AR-1260-2

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 9353634
Conc: 29.01 ng/ml



#32 AR-1260-2

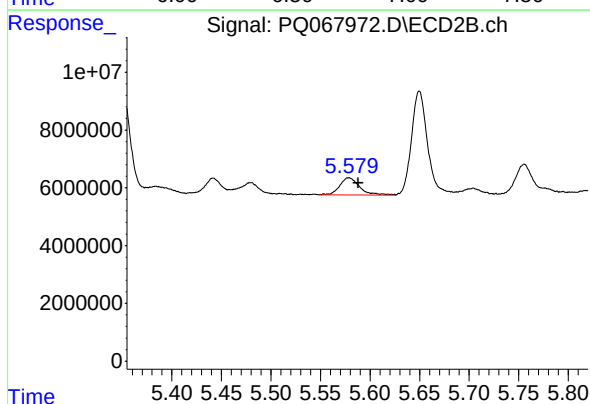
R.T.: 5.442 min
Delta R.T.: -0.005 min
Response: 5014750
Conc: 12.81 ng/ml



#33 AR-1260-3

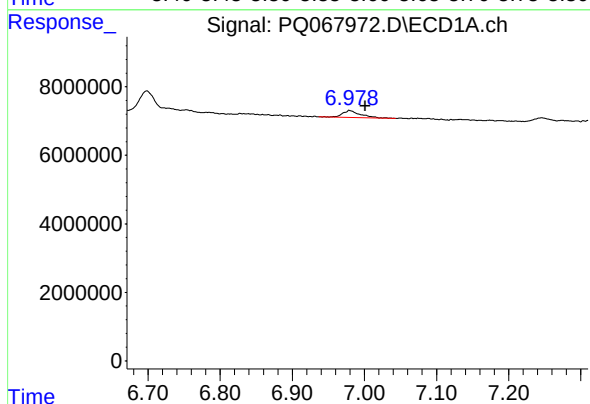
R.T.: 0.000 min
Exp R.T.: 6.781 min
Response: 0
Conc: N.D.

Instrument :
ECD_Q
ClientSampleId :



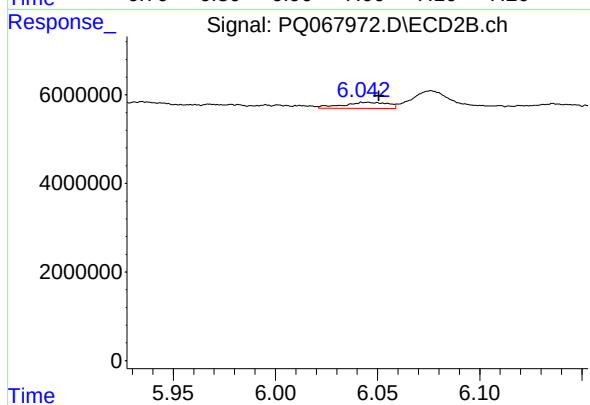
#33 AR-1260-3

R.T.: 5.579 min
Delta R.T.: -0.010 min
Response: 8220671
Conc: 21.88 ng/ml



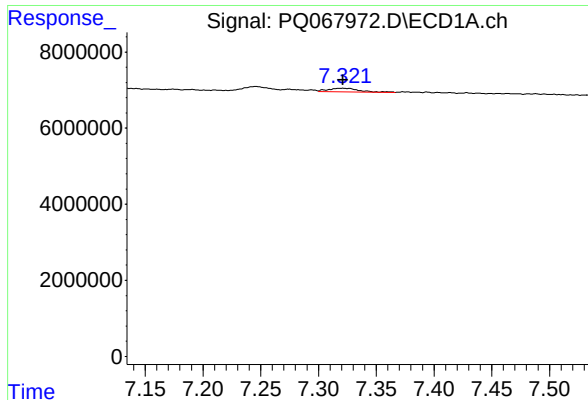
#34 AR-1260-4

R.T.: 6.979 min
Delta R.T.: -0.022 min
Response: 3455788
Conc: 13.55 ng/ml



#34 AR-1260-4

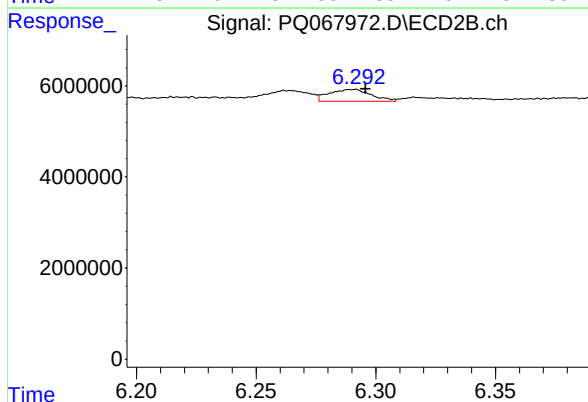
R.T.: 6.044 min
Delta R.T.: -0.006 min
Response: 2153202
Conc: 7.44 ng/ml



#35 AR-1260-5

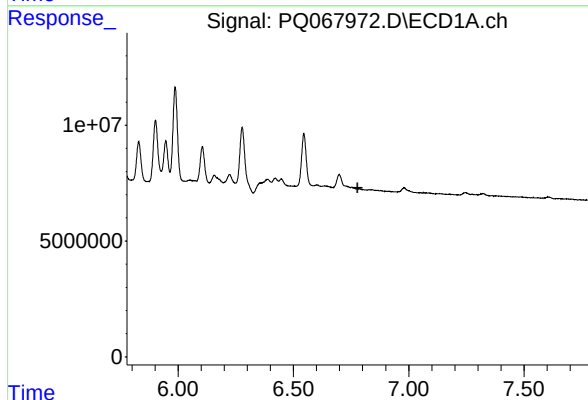
R.T.: 7.321 min
Delta R.T.: 0.000 min
Response: 1791217
Conc: 4.05 ng/ml

Instrument :
ECD_Q
ClientSampleId :



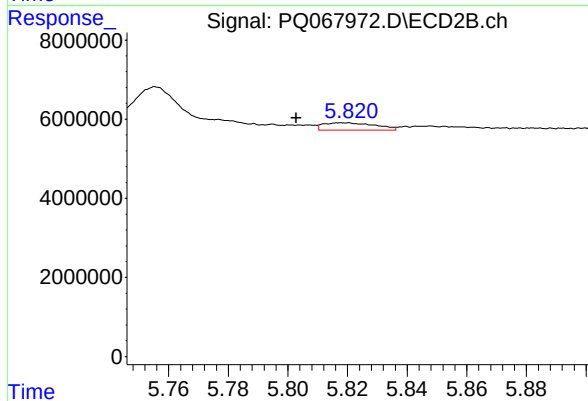
#35 AR-1260-5

R.T.: 6.290 min
Delta R.T.: -0.005 min
Response: 3214267
Conc: 5.40 ng/ml



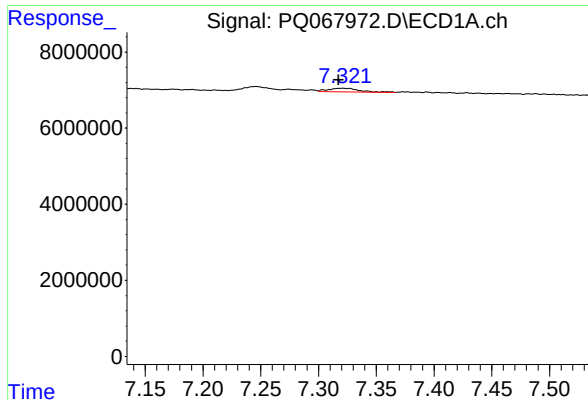
#36 AR-1262-1

R.T.: 0.000 min
Exp R.T.: 6.778 min
Response: 0
Conc: N.D.



#36 AR-1262-1

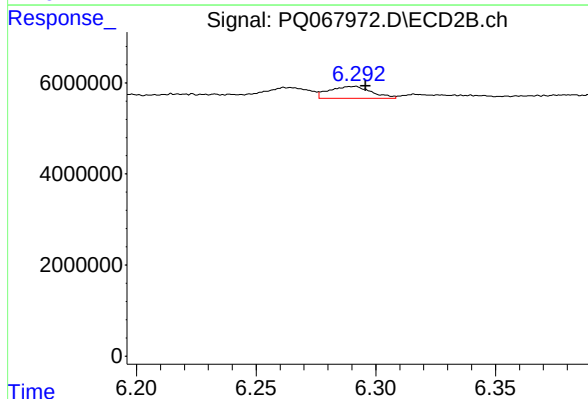
R.T.: 5.819 min
Delta R.T.: 0.016 min
Response: 2231773
Conc: 5.00 ng/ml



#37 AR-1262-2

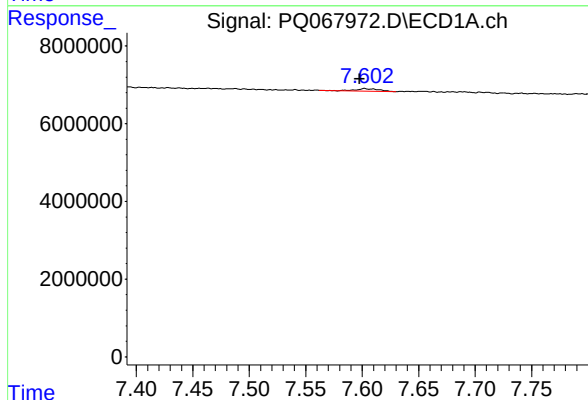
R.T.: 7.321 min
Delta R.T.: 0.003 min
Response: 1791217
Conc: 3.31 ng/ml

Instrument :
ECD_Q
ClientSampleId :



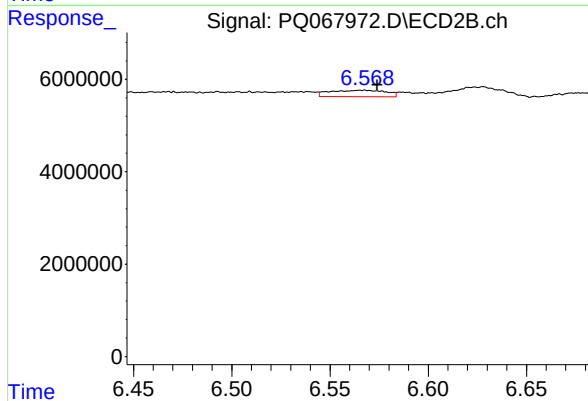
#37 AR-1262-2

R.T.: 6.290 min
Delta R.T.: -0.005 min
Response: 3214267
Conc: 4.70 ng/ml



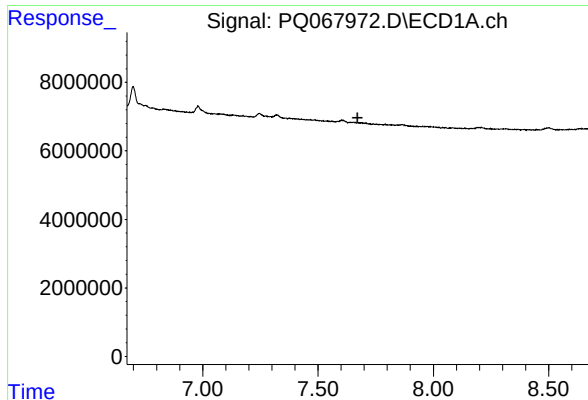
#38 AR-1262-3

R.T.: 7.602 min
Delta R.T.: 0.004 min
Response: 978009
Conc: 2.98 ng/ml



#38 AR-1262-3

R.T.: 6.567 min
Delta R.T.: -0.007 min
Response: 2791662
Conc: 9.24 ng/ml

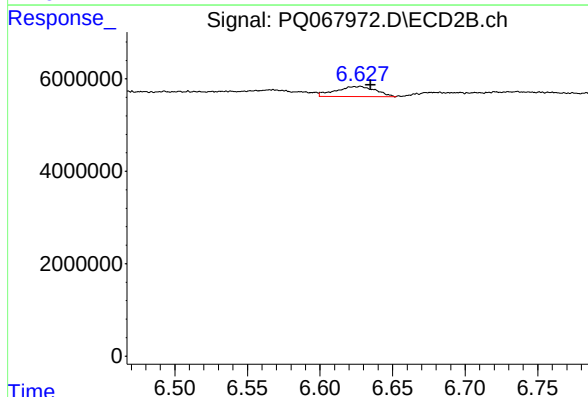


#39 AR-1262-4

R.T.: 0.000 min
Exp R.T.: 7.671 min
Response: 0
Conc: N.D.

Instrument :
ECD_Q
ClientSampleId :

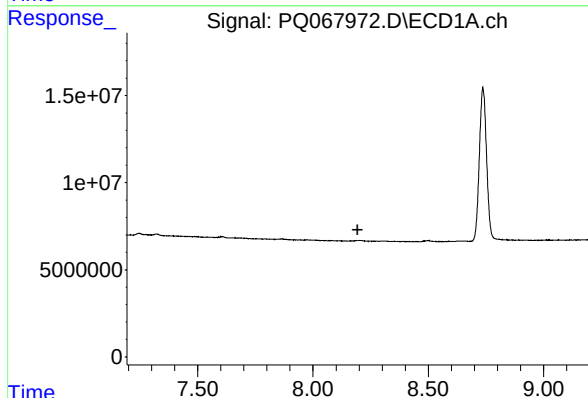
Time



#39 AR-1262-4

R.T.: 6.628 min
Delta R.T.: -0.007 min
Response: 4241573
Conc: 8.06 ng/ml

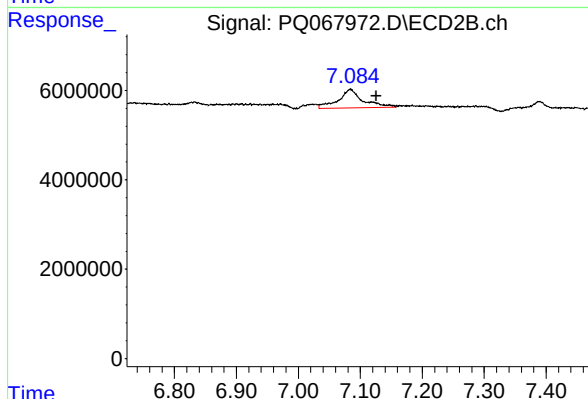
Time



#40 AR-1262-5

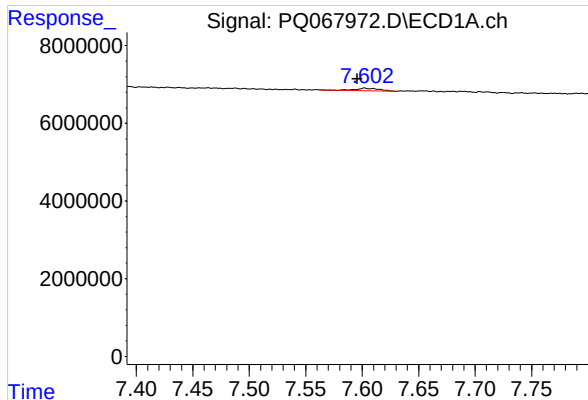
R.T.: 0.000 min
Exp R.T.: 8.193 min
Response: 0
Conc: N.D.

Time



#40 AR-1262-5

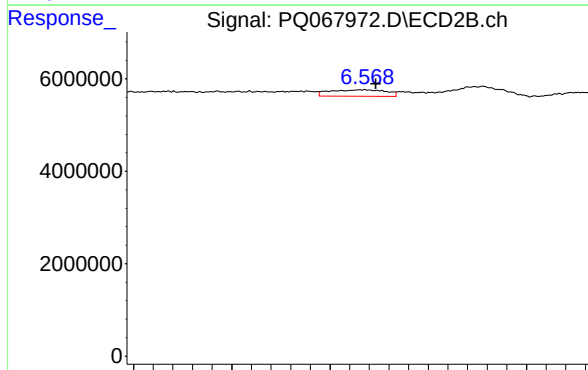
R.T.: 7.084 min
Delta R.T.: -0.042 min
Response: 11402489
Conc: 53.25 ng/ml



#41 AR-1268-1

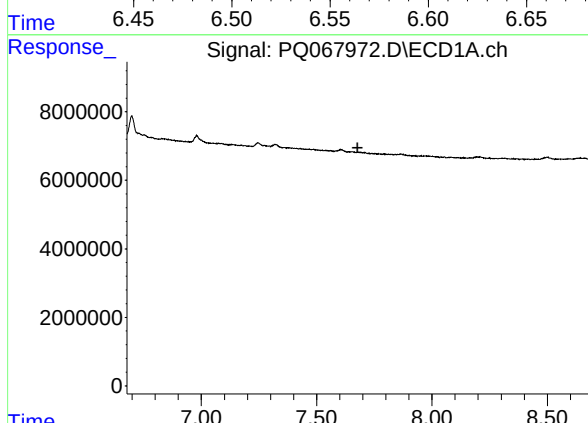
R.T.: 7.602 min
Delta R.T.: 0.006 min
Response: 978009
Conc: 1.67 ng/ml

Instrument :
ECD_Q
ClientSampleId :



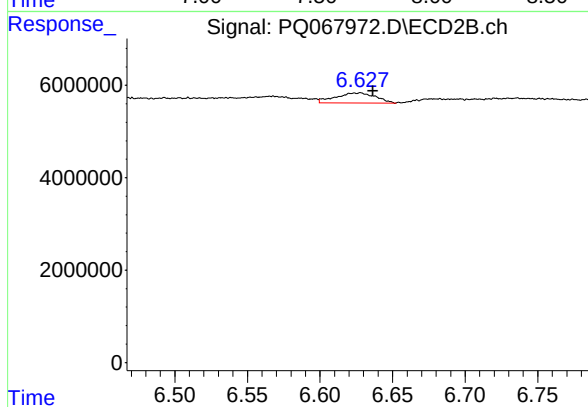
#41 AR-1268-1

R.T.: 6.567 min
Delta R.T.: -0.006 min
Response: 2791662
Conc: 3.32 ng/ml



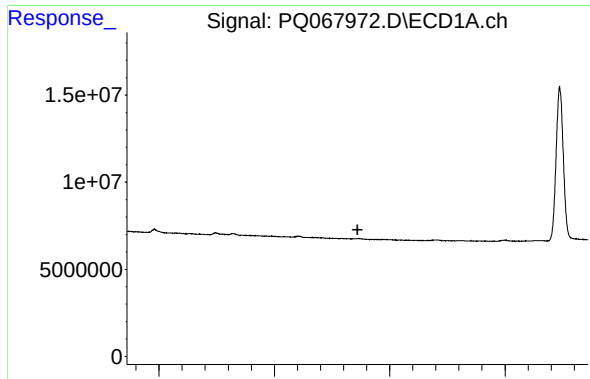
#42 AR-1268-2

R.T.: 0.000 min
Exp R.T.: 7.677 min
Response: 0
Conc: N.D.



#42 AR-1268-2

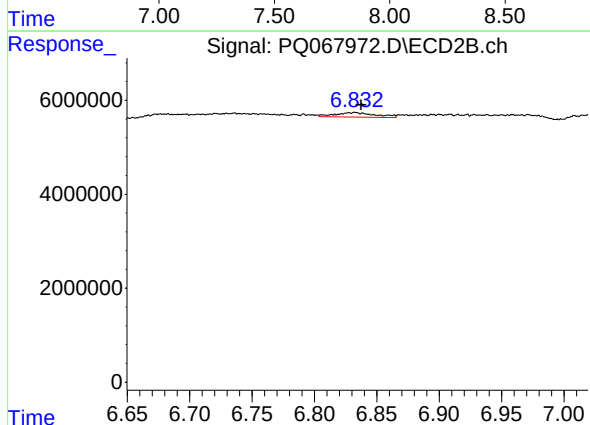
R.T.: 6.628 min
Delta R.T.: -0.009 min
Response: 4241573
Conc: 5.54 ng/ml



#43 AR-1268-3

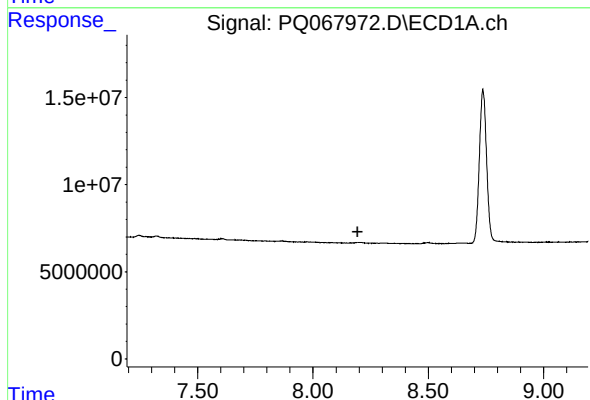
R.T.: 0.000 min
Exp R.T.: 7.861 min
Response: 0
Conc: N.D.

Instrument :
ECD_Q
ClientSampleId :



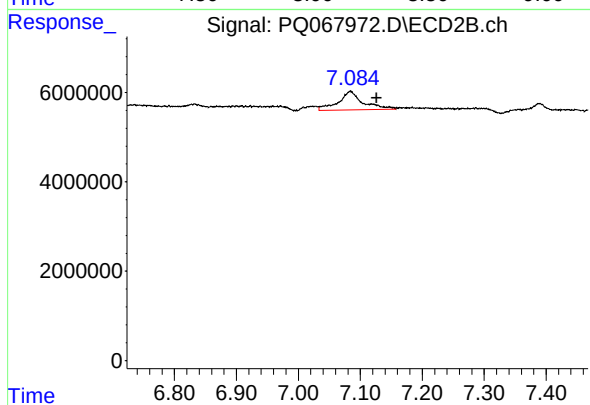
#43 AR-1268-3

R.T.: 6.833 min
Delta R.T.: -0.005 min
Response: 2094590
Conc: 3.00 ng/ml



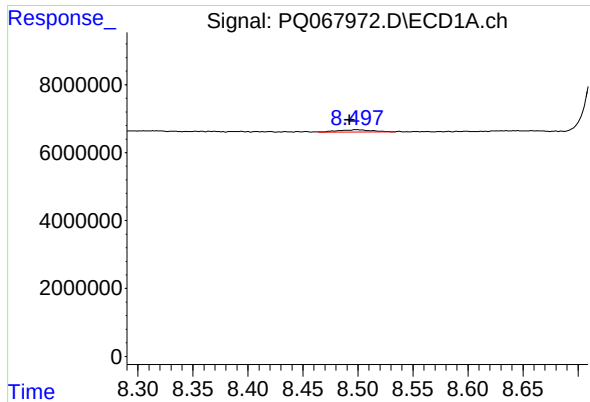
#44 AR-1268-4

R.T.: 0.000 min
Exp R.T.: 8.193 min
Response: 0
Conc: N.D.



#44 AR-1268-4

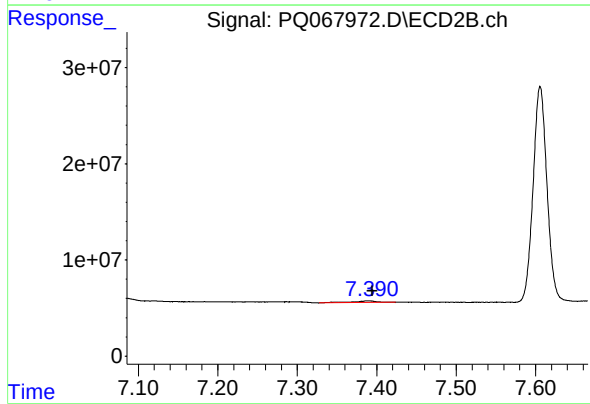
R.T.: 7.084 min
Delta R.T.: -0.042 min
Response: 11402489
Conc: 48.51 ng/ml



#45 AR-1268-5

R.T.: 8.498 min
Delta R.T.: 0.006 min
Response: 1264597
Conc: 1.02 ng/ml

Instrument :
ECD_Q
ClientSampleId :



#45 AR-1268-5

R.T.: 7.389 min
Delta R.T.: -0.005 min
Response: 3749549
Conc: 1.96 ng/ml