

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP062023\
 Data File : PP058552.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jun 2023 19:33
 Operator : YP\AJ
 Sample : HEXANE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 21 05:49:45 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP062023.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jun 21 05:48:37 2023
 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...	4.458	3.670	2212446	1332114	0.886	0.817
2)	SA Decachlor...	10.277	8.729	1392336	1229432	1.053	1.009
Target Compounds							
3)	L1 AR-1016-1	5.643	4.786f	73016	135866	1.023	2.700 #
4)	L1 AR-1016-2	5.671	4.786	17697	135866	0.172	1.919 #
5)	L1 AR-1016-3	5.727	4.951f	73744	117997	1.150	3.133 #
6)	L1 AR-1016-4	5.819	5.034f	82029	323858	1.602	9.737 #
7)	L1 AR-1016-5	6.142f	0.000	2667888	0	50.514	N.D. #
8)	L2 AR-1221-1	4.672	3.891	28056	24998	0.960	1.219 #
9)	L2 AR-1221-2	4.769	3.993f	257111	100147	11.759	6.367 #
10)	L2 AR-1221-3	4.825	4.060	12922	54788	0.201	1.151 #
11)	L3 AR-1232-1	4.825	4.060	12922	54788	0.278	1.597 #
12)	L3 AR-1232-2	5.370	4.786	46953	135866	1.751	4.197 #
13)	L3 AR-1232-3	5.671	4.951f	17697	117997	0.386	6.788 #
14)	L3 AR-1232-4	5.819	5.060	82029	192250	3.533	11.435 #
16)	L4 AR-1242-1	5.643	4.786f	73016	135866	1.305	3.424 #
17)	L4 AR-1242-2	5.671	4.786	17697	135866	0.220	2.445 #
18)	L4 AR-1242-3	5.727	4.951f	73744	117997	1.457	4.013 #
19)	L4 AR-1242-4	5.819	5.060	82029	192250	2.053	5.945 #
20)	L4 AR-1242-5	6.541f	5.606f	404695	5171179	11.135	136.346 #
21)	L5 AR-1248-1	5.643	4.786f	73016	135866	1.719	4.448 #
22)	L5 AR-1248-2	0.000	5.034f	0	323858	N.D.	7.078 #
23)	L5 AR-1248-3	6.142f	5.060	2667888	192250	37.869	4.053 #
24)	L5 AR-1248-4	6.541f	0.000	404695	0	5.927	N.D. #
25)	L5 AR-1248-5	6.541f	5.634	404695	795697	6.313	16.213 #
26)	L6 AR-1254-1	6.494	5.606f	5933160	5171179	77.386	67.027
27)	L6 AR-1254-2	6.726	5.716	25914	1343492	0.234	19.624 #
28)	L6 AR-1254-3	7.082	6.122	1071292	1248404	9.988	11.895
29)	L6 AR-1254-4	7.370	6.345f	259138	546249	3.565	9.142 #
30)	L6 AR-1254-5	7.802	6.786	156011	54325	1.930	0.587 #
31)	L7 AR-1260-1	7.242	6.265	102729	871990	1.176	11.283 #
32)	L7 AR-1260-2	7.516	6.435f	183408	568946	1.899	6.434 #
33)	L7 AR-1260-3	0.000	6.630f	0	215200	N.D.	2.552 #
34)	L7 AR-1260-4	0.000	7.077	0	50193	N.D.	0.833 #
35)	L7 AR-1260-5	8.407	7.317	116162	13599	0.892	0.106 #
36)	L8 AR-1262-1	0.000	6.887	0	101685	N.D.	2.394 #
37)	L8 AR-1262-2	8.407	7.077	116162	50193	0.691	0.556
38)	L8 AR-1262-3	8.737	7.602	32609	53852	0.286	0.790 #
39)	L8 AR-1262-4	8.827	7.667	77807	193877	0.904	1.587 #
40)	L8 AR-1262-5	9.505	8.177	70962	88484	1.294	1.674 #
41)	L9 AR-1268-1	8.737	7.602	32609	53852	0.166	0.292 #
42)	L9 AR-1268-2	8.827	7.667	77807	193877	0.449	1.175 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP062023\
 Data File : PP058552.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Jun 2023 19:33
 Operator : YP\AJ
 Sample : HEXANE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jun 21 05:49:45 2023
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP062023.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Wed Jun 21 05:48:37 2023
 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
43) L9	AR-1268-3	9.066	0.000	51477	0	0.332	N.D. #
44) L9	AR-1268-4	9.505	8.177	70962	88484	1.241	1.626 #
45) L9	AR-1268-5	9.927	8.468	66560	51399	0.143	0.123

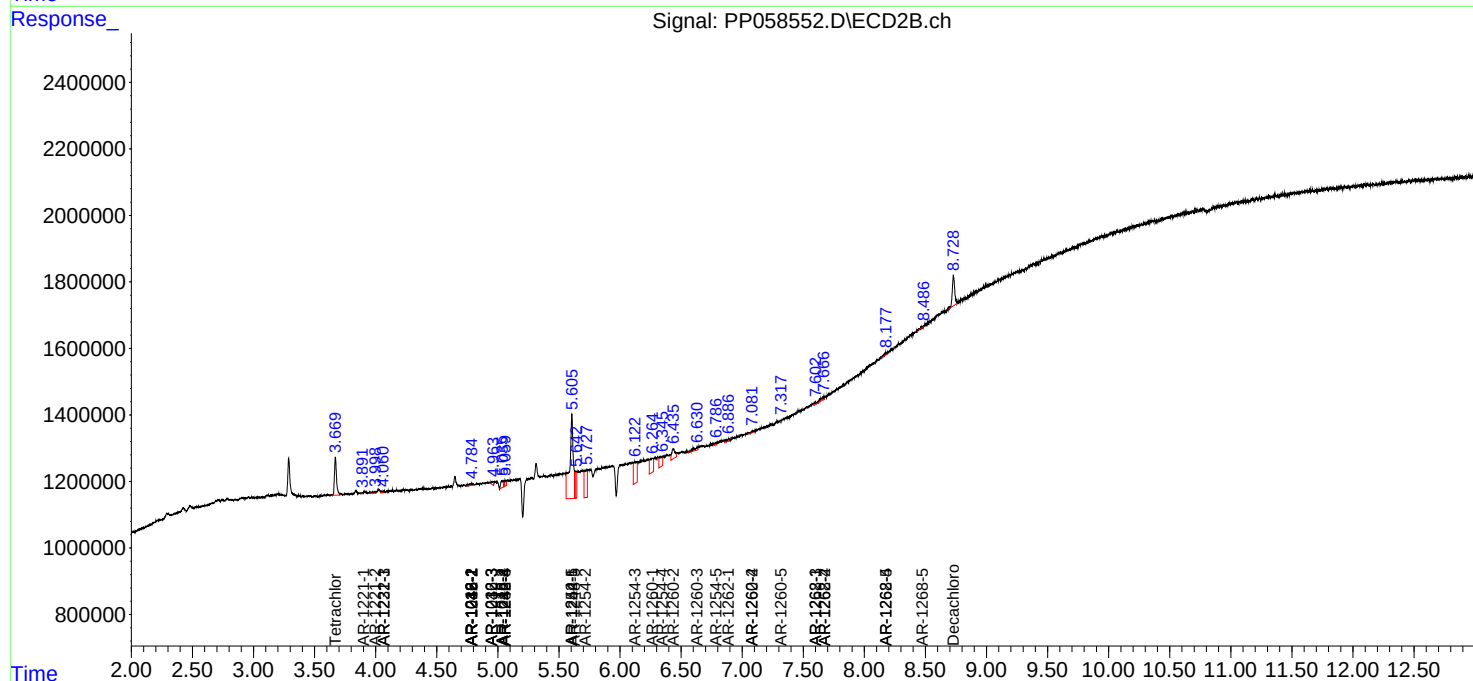
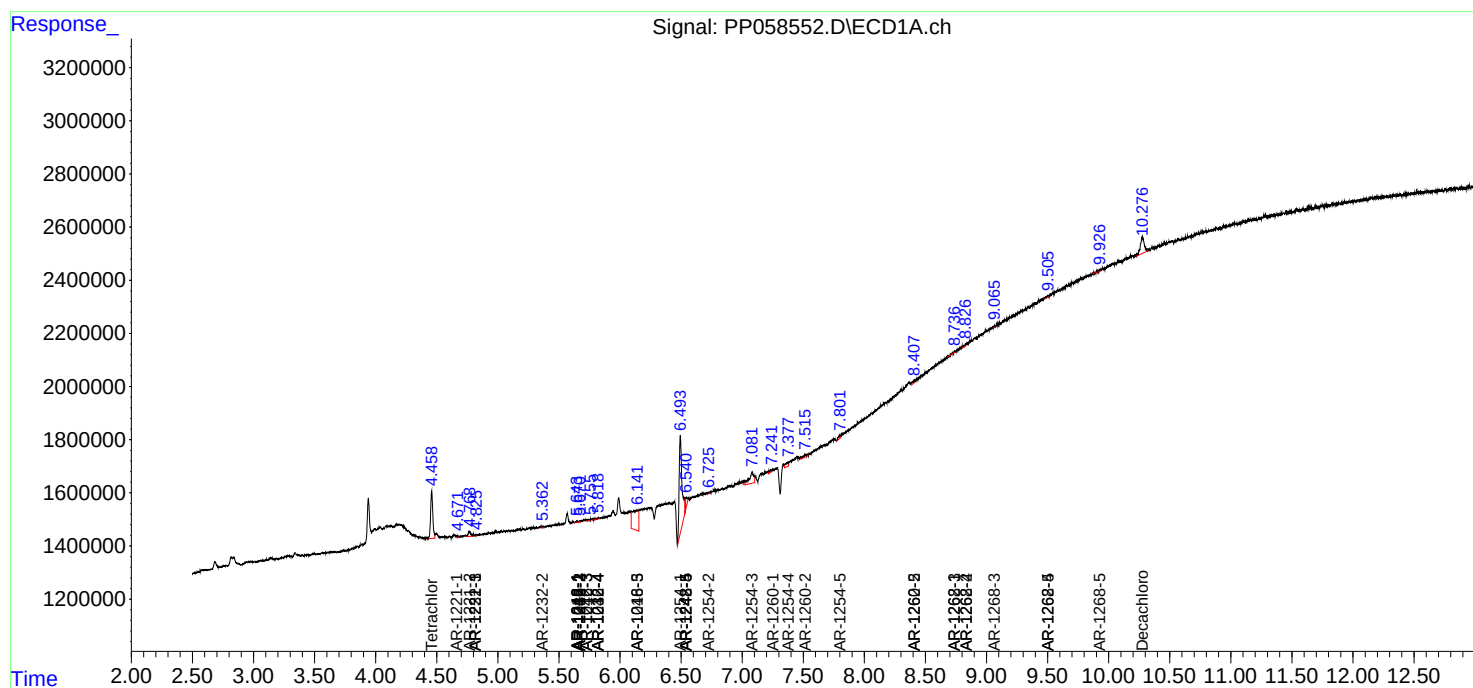
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

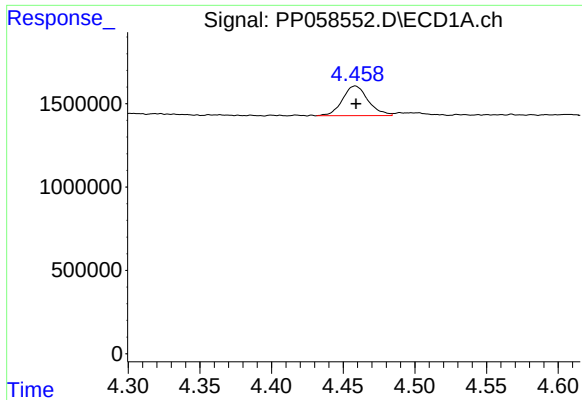
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP062023\
Data File : PP058552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Jun 2023 19:33
Operator : YP\AJ
Sample : HEXANE
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 21 05:49:45 2023
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP062023.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Jun 21 05:48:37 2023
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

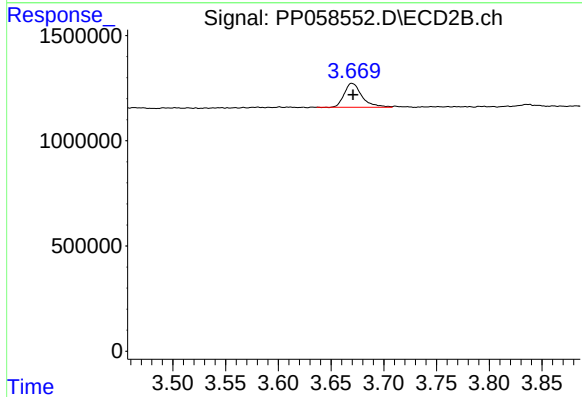




#1 Tetrachloro-m-xylene

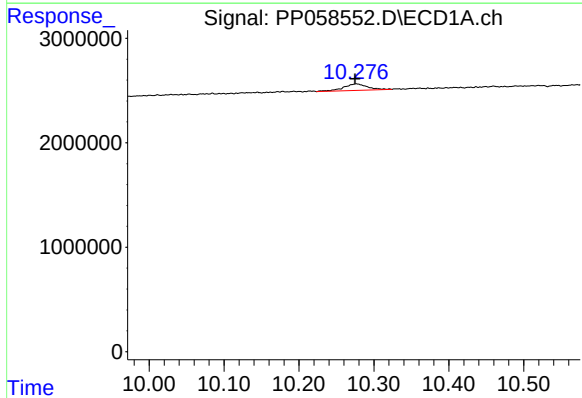
R.T.: 4.458 min
Delta R.T.: 0.000 min
Response: 2212446
Conc: 0.89 ng/ml

Instrument :
ECD_P
ClientSampleId :



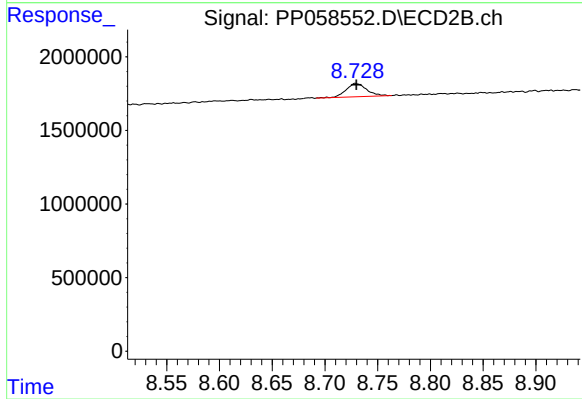
#1 Tetrachloro-m-xylene

R.T.: 3.670 min
Delta R.T.: 0.000 min
Response: 1332114
Conc: 0.82 ng/ml



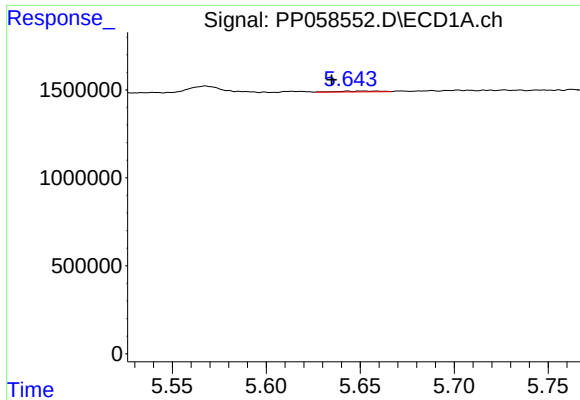
#2 Decachlorobiphenyl

R.T.: 10.277 min
Delta R.T.: 0.002 min
Response: 1392336
Conc: 1.05 ng/ml



#2 Decachlorobiphenyl

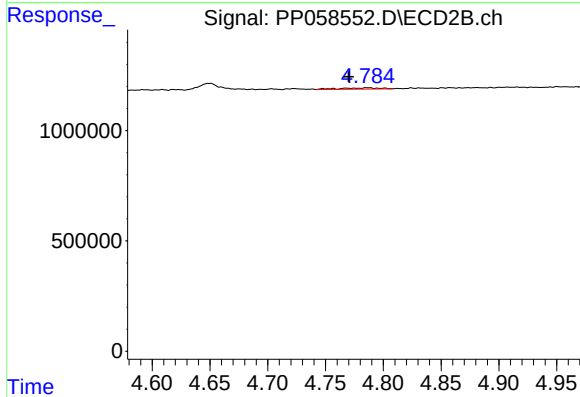
R.T.: 8.729 min
Delta R.T.: 0.000 min
Response: 1229432
Conc: 1.01 ng/ml



#3 AR-1016-1

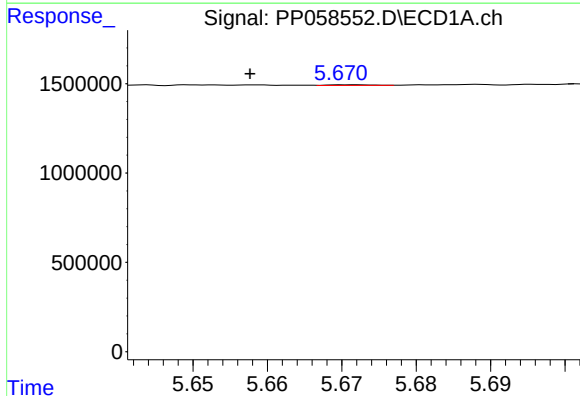
R.T.: 5.643 min
Delta R.T.: 0.008 min
Response: 73016
Conc: 1.02 ng/ml

Instrument :
ECD_P
ClientSampleId :



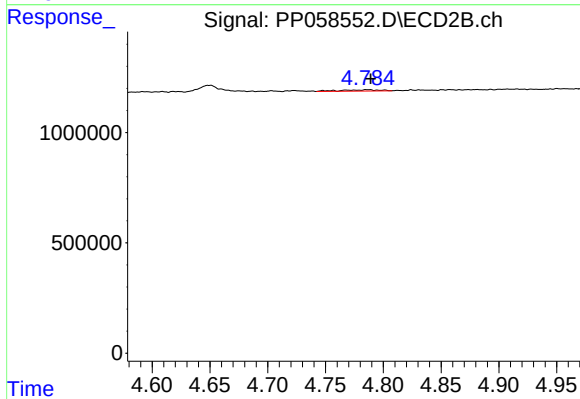
#3 AR-1016-1

R.T.: 4.786 min
Delta R.T.: 0.016 min
Response: 135866
Conc: 2.70 ng/ml



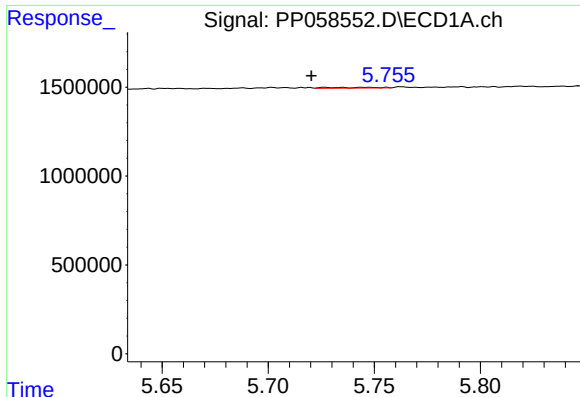
#4 AR-1016-2

R.T.: 5.671 min
Delta R.T.: 0.014 min
Response: 17697
Conc: 0.17 ng/ml



#4 AR-1016-2

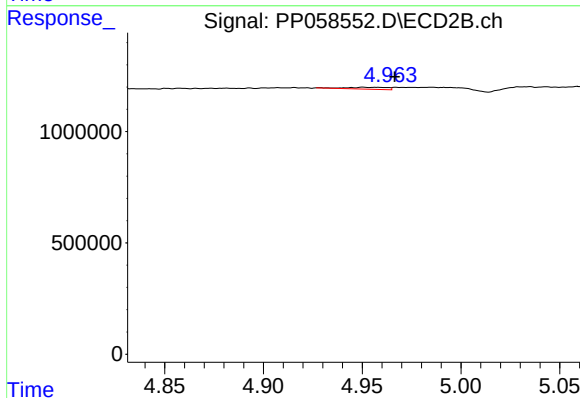
R.T.: 4.786 min
Delta R.T.: -0.003 min
Response: 135866
Conc: 1.92 ng/ml



#5 AR-1016-3

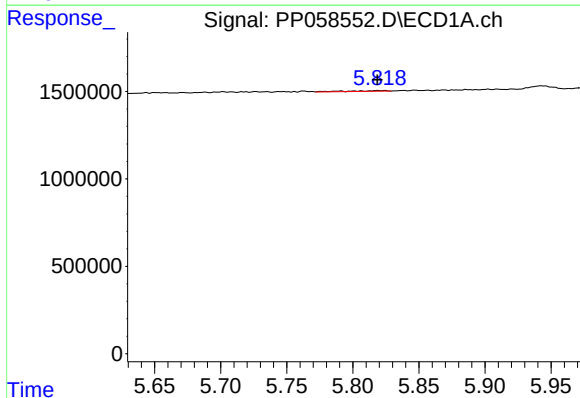
R.T.: 5.727 min
Delta R.T.: 0.006 min
Response: 73744
Conc: 1.15 ng/ml

Instrument :
ECD_P
ClientSampleId :



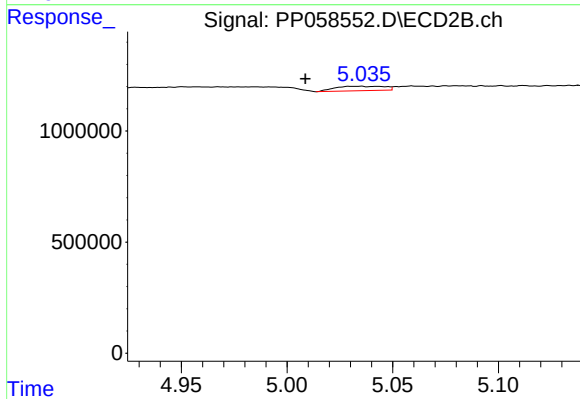
#5 AR-1016-3

R.T.: 4.951 min
Delta R.T.: -0.016 min
Response: 117997
Conc: 3.13 ng/ml



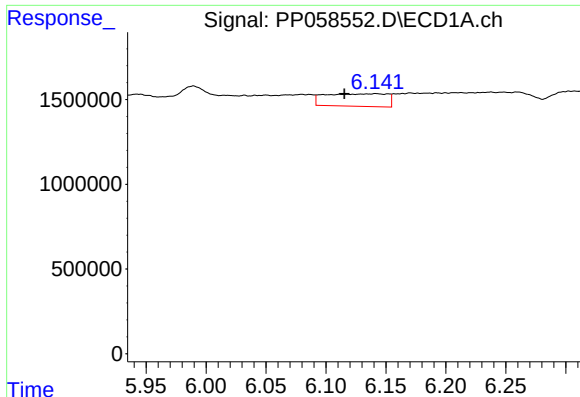
#6 AR-1016-4

R.T.: 5.819 min
Delta R.T.: 0.000 min
Response: 82029
Conc: 1.60 ng/ml



#6 AR-1016-4

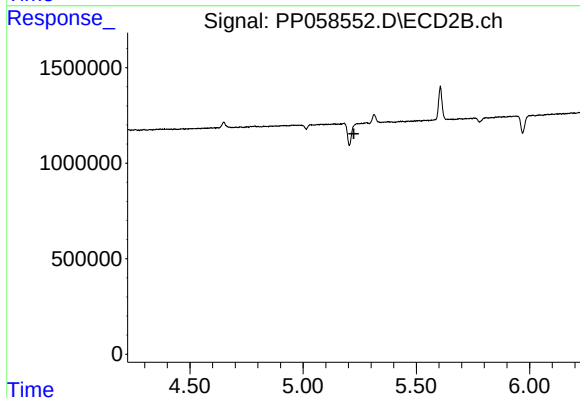
R.T.: 5.034 min
Delta R.T.: 0.026 min
Response: 323858
Conc: 9.74 ng/ml



#7 AR-1016-5

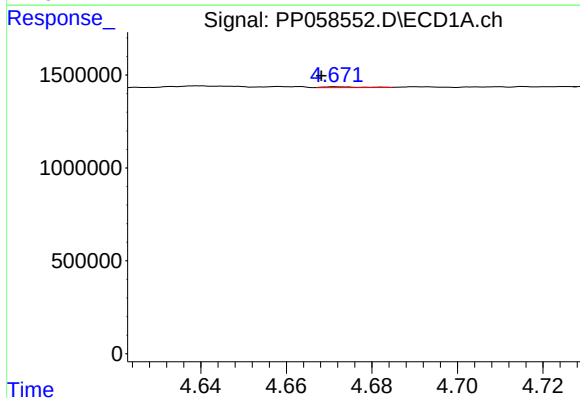
R.T.: 6.142 min
Delta R.T.: 0.026 min
Response: 2667888
Conc: 50.51 ng/ml

Instrument :
ECD_P
ClientSampleId :



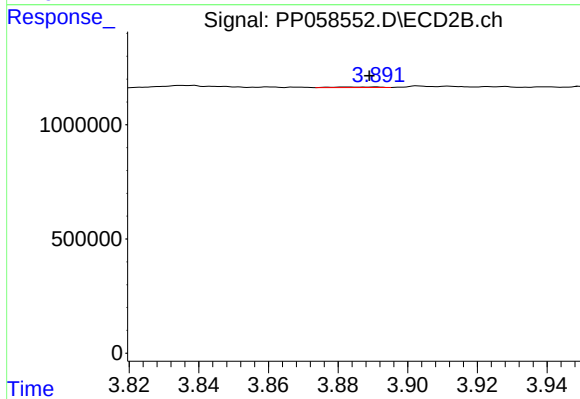
#7 AR-1016-5

R.T.: 0.000 min
Exp R.T. : 5.224 min
Response: 0
Conc: N.D.



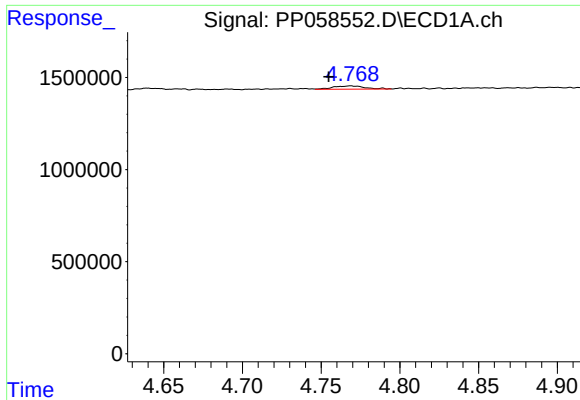
#8 AR-1221-1

R.T.: 4.672 min
Delta R.T.: 0.004 min
Response: 28056
Conc: 0.96 ng/ml



#8 AR-1221-1

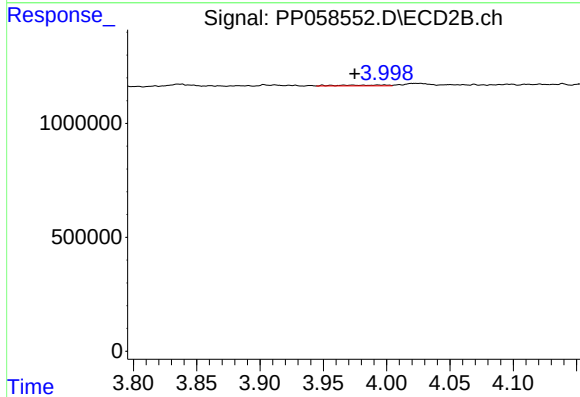
R.T.: 3.891 min
Delta R.T.: 0.002 min
Response: 24998
Conc: 1.22 ng/ml



#9 AR-1221-2

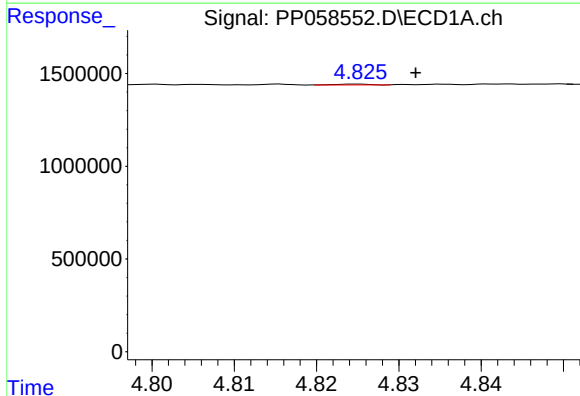
R.T.: 4.769 min
Delta R.T.: 0.014 min
Response: 257111
Conc: 11.76 ng/ml

Instrument :
ECD_P
ClientSampleId :



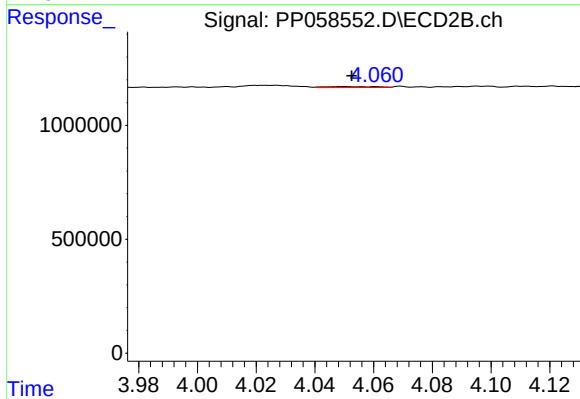
#9 AR-1221-2

R.T.: 3.993 min
Delta R.T.: 0.018 min
Response: 100147
Conc: 6.37 ng/ml



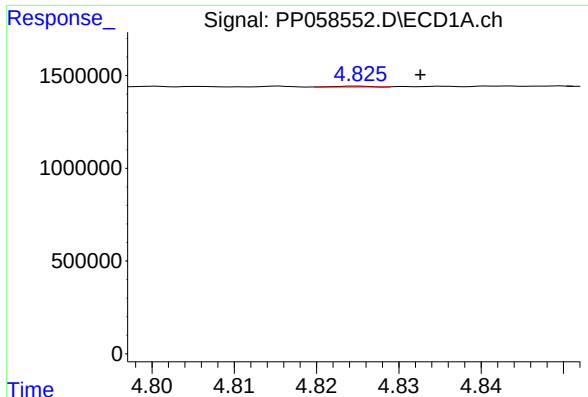
#10 AR-1221-3

R.T.: 4.825 min
Delta R.T.: -0.007 min
Response: 12922
Conc: 0.20 ng/ml



#10 AR-1221-3

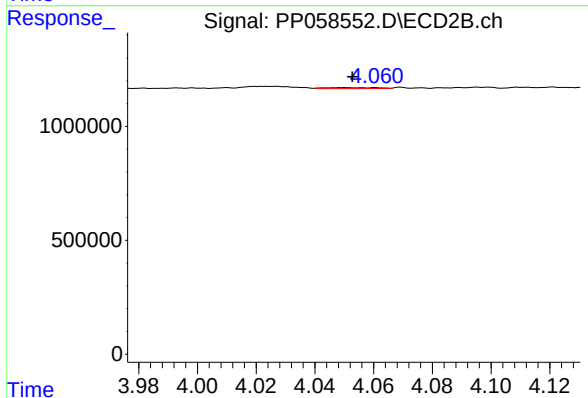
R.T.: 4.060 min
Delta R.T.: 0.008 min
Response: 54788
Conc: 1.15 ng/ml



#11 AR-1232-1

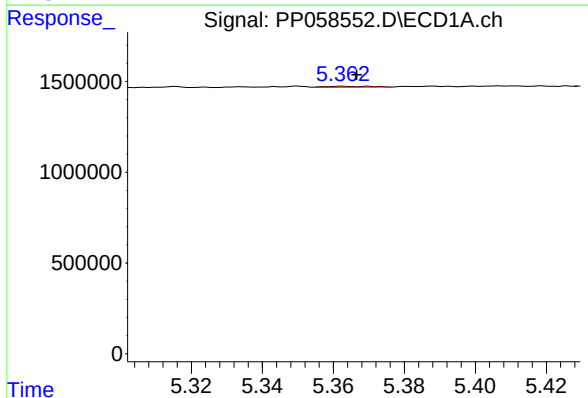
R.T.: 4.825 min
Delta R.T.: -0.008 min
Response: 12922
Conc: 0.28 ng/ml

Instrument :
ECD_P
ClientSampleId :



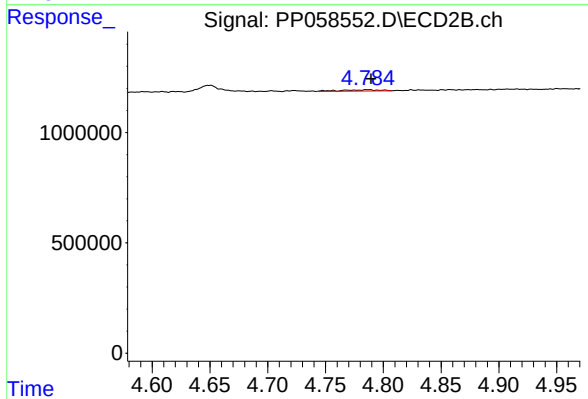
#11 AR-1232-1

R.T.: 4.060 min
Delta R.T.: 0.008 min
Response: 54788
Conc: 1.60 ng/ml



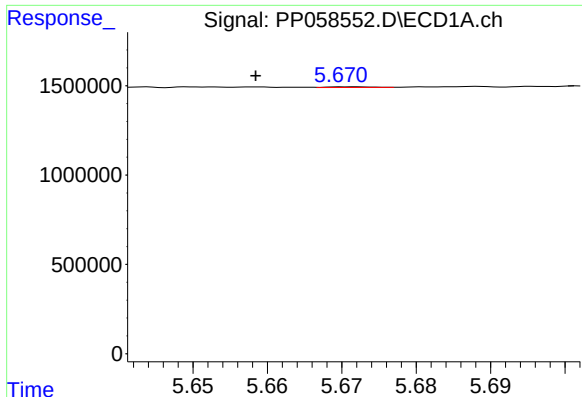
#12 AR-1232-2

R.T.: 5.370 min
Delta R.T.: 0.003 min
Response: 46953
Conc: 1.75 ng/ml



#12 AR-1232-2

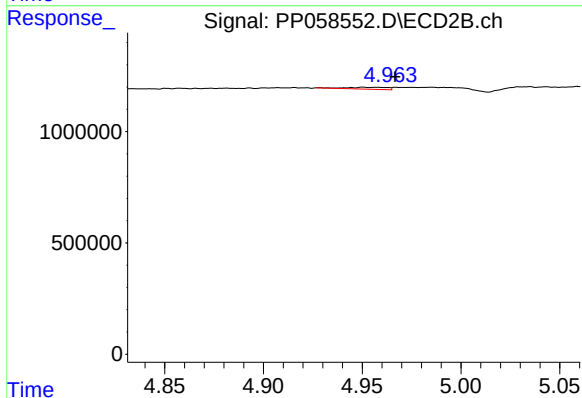
R.T.: 4.786 min
Delta R.T.: -0.003 min
Response: 135866
Conc: 4.20 ng/ml



#13 AR-1232-3

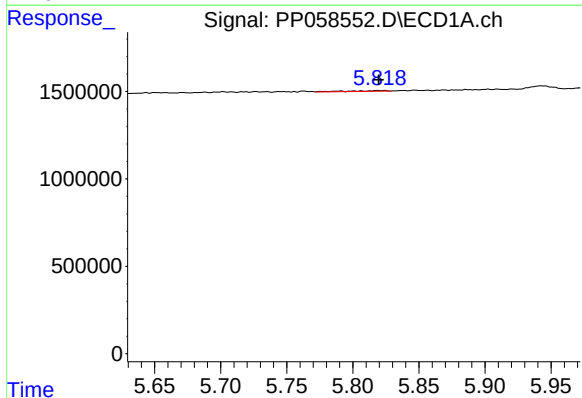
R.T.: 5.671 min
Delta R.T.: 0.013 min
Response: 17697
Conc: 0.39 ng/ml

Instrument :
ECD_P
ClientSampleId :



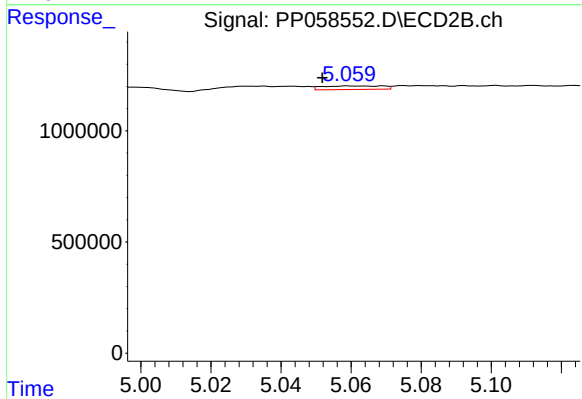
#13 AR-1232-3

R.T.: 4.951 min
Delta R.T.: -0.016 min
Response: 117997
Conc: 6.79 ng/ml



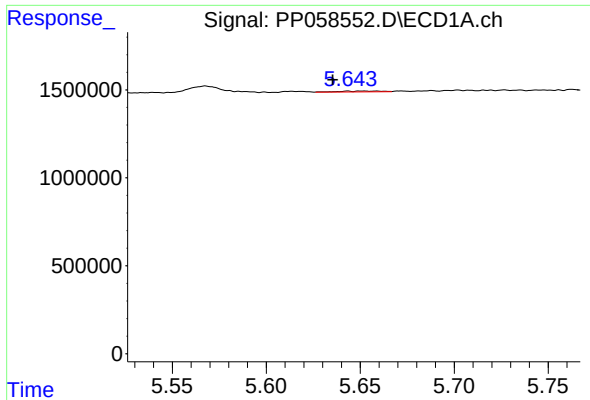
#14 AR-1232-4

R.T.: 5.819 min
Delta R.T.: 0.000 min
Response: 82029
Conc: 3.53 ng/ml



#14 AR-1232-4

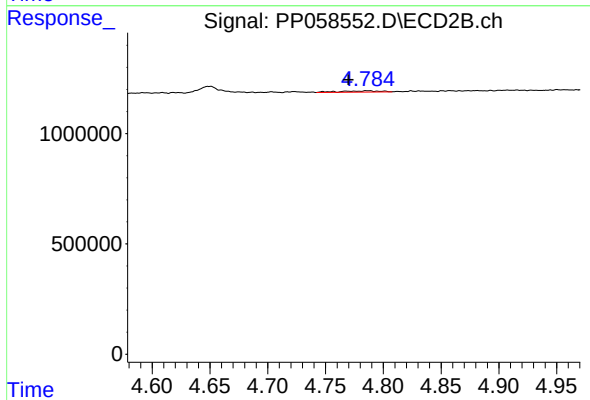
R.T.: 5.060 min
Delta R.T.: 0.008 min
Response: 192250
Conc: 11.43 ng/ml



#16 AR-1242-1

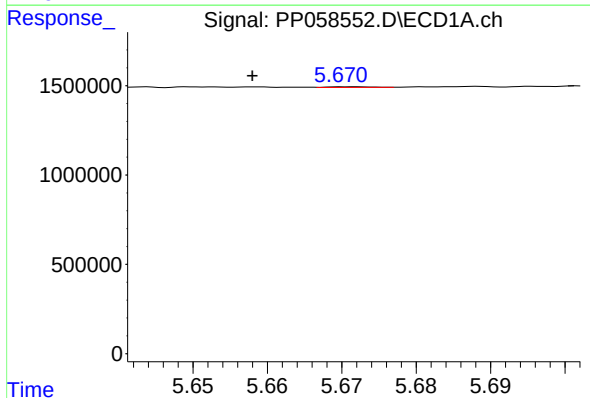
R.T.: 5.643 min
Delta R.T.: 0.008 min
Response: 73016
Conc: 1.31 ng/ml

Instrument :
ECD_P
ClientSampleId :



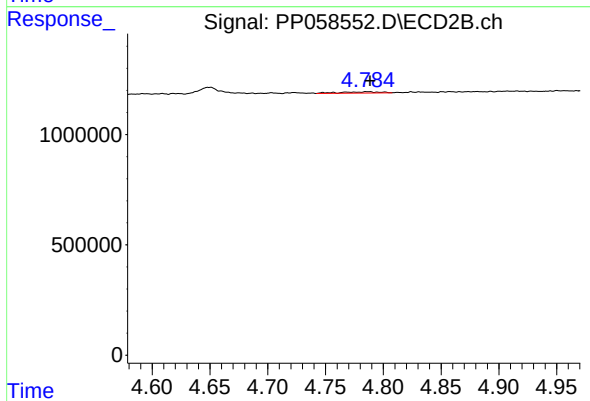
#16 AR-1242-1

R.T.: 4.786 min
Delta R.T.: 0.016 min
Response: 135866
Conc: 3.42 ng/ml



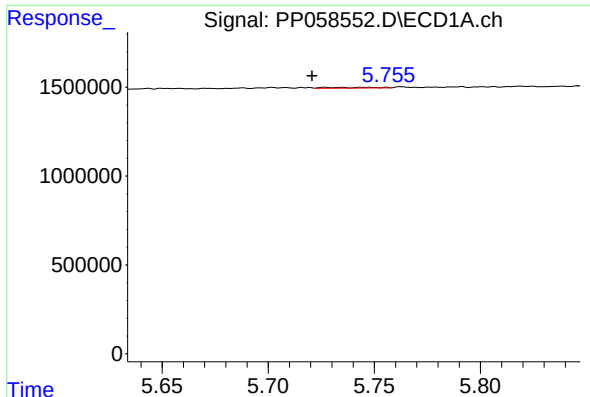
#17 AR-1242-2

R.T.: 5.671 min
Delta R.T.: 0.013 min
Response: 17697
Conc: 0.22 ng/ml



#17 AR-1242-2

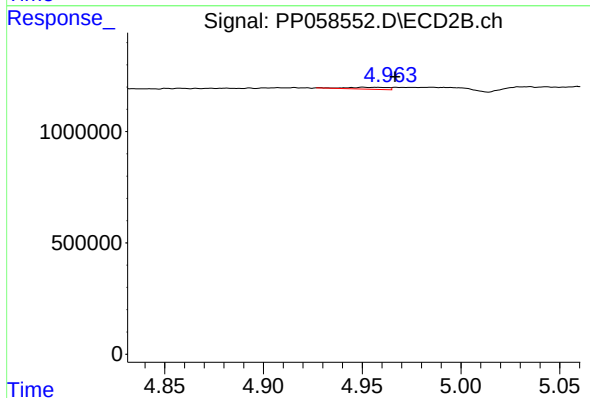
R.T.: 4.786 min
Delta R.T.: -0.003 min
Response: 135866
Conc: 2.44 ng/ml



#18 AR-1242-3

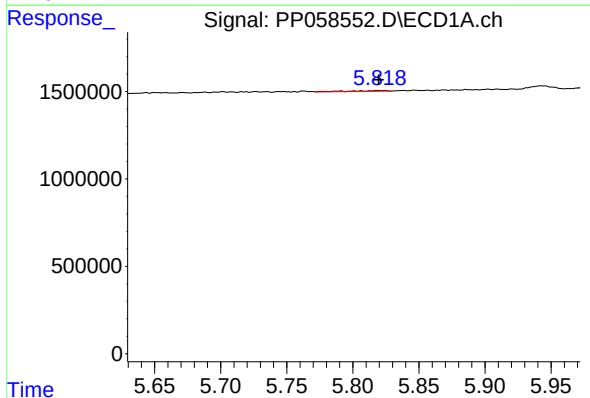
R.T.: 5.727 min
Delta R.T.: 0.006 min
Response: 73744
Conc: 1.46 ng/ml

Instrument :
ECD_P
ClientSampleId :



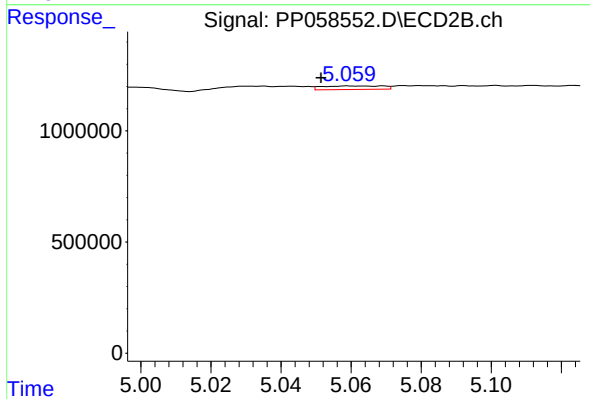
#18 AR-1242-3

R.T.: 4.951 min
Delta R.T.: -0.016 min
Response: 117997
Conc: 4.01 ng/ml



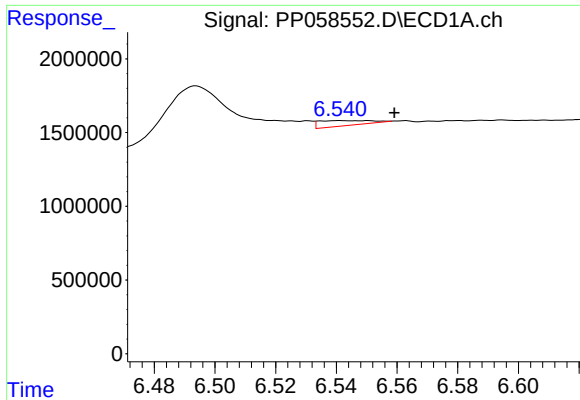
#19 AR-1242-4

R.T.: 5.819 min
Delta R.T.: 0.000 min
Response: 82029
Conc: 2.05 ng/ml



#19 AR-1242-4

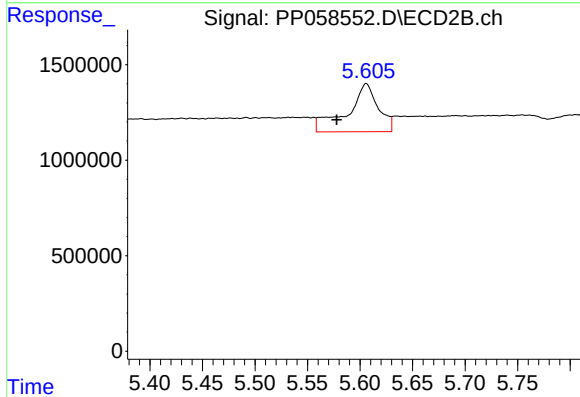
R.T.: 5.060 min
Delta R.T.: 0.008 min
Response: 192250
Conc: 5.95 ng/ml



#20 AR-1242-5

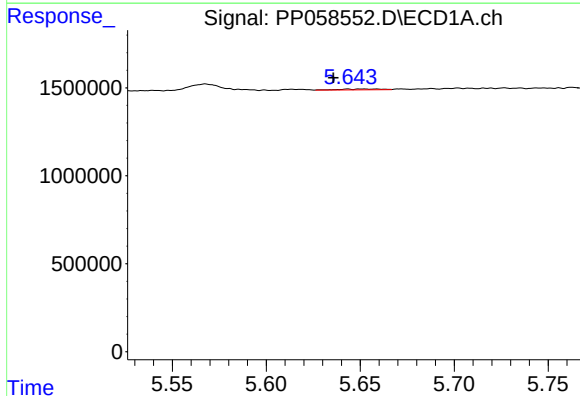
R.T.: 6.541 min
Delta R.T.: -0.018 min
Response: 404695
Conc: 11.14 ng/ml

Instrument :
ECD_P
ClientSampleId :



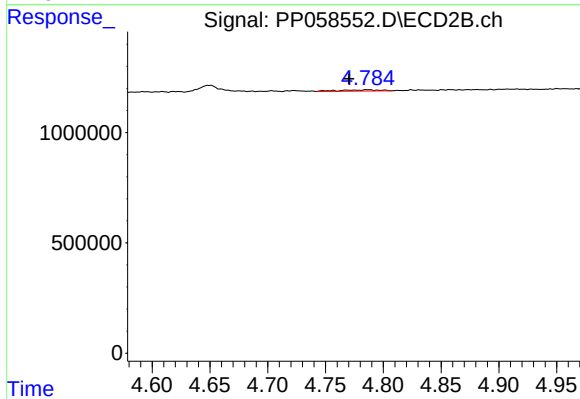
#20 AR-1242-5

R.T.: 5.606 min
Delta R.T.: 0.028 min
Response: 5171179
Conc: 136.35 ng/ml



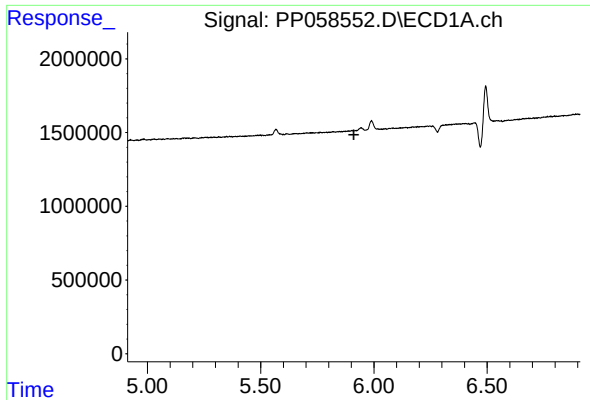
#21 AR-1248-1

R.T.: 5.643 min
Delta R.T.: 0.008 min
Response: 73016
Conc: 1.72 ng/ml



#21 AR-1248-1

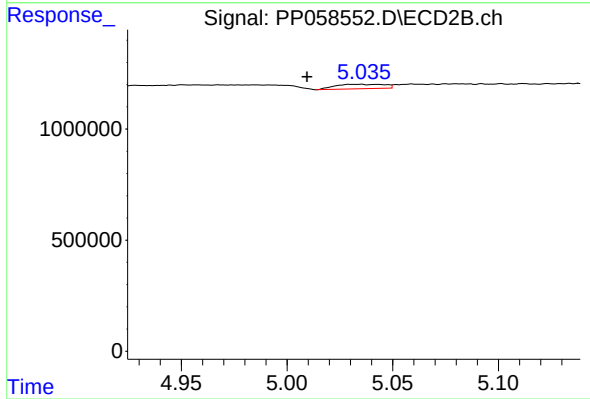
R.T.: 4.786 min
Delta R.T.: 0.016 min
Response: 135866
Conc: 4.45 ng/ml



#22 AR-1248-2

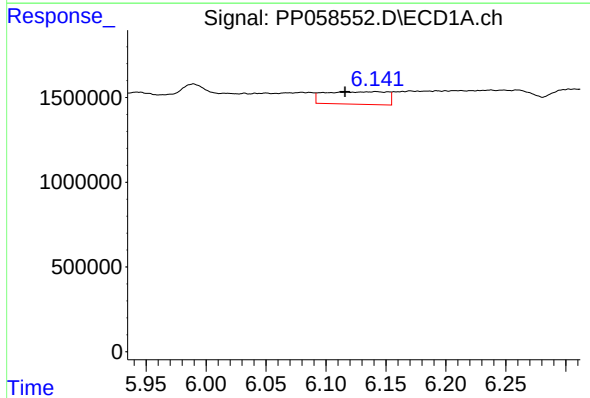
R.T.: 0.000 min
Exp R.T.: 5.911 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :



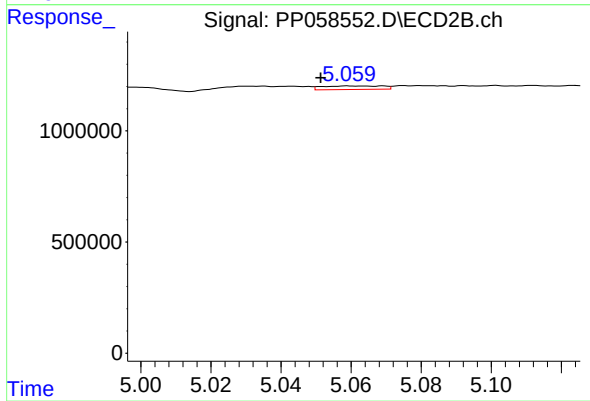
#22 AR-1248-2

R.T.: 5.034 min
Delta R.T.: 0.025 min
Response: 323858
Conc: 7.08 ng/ml



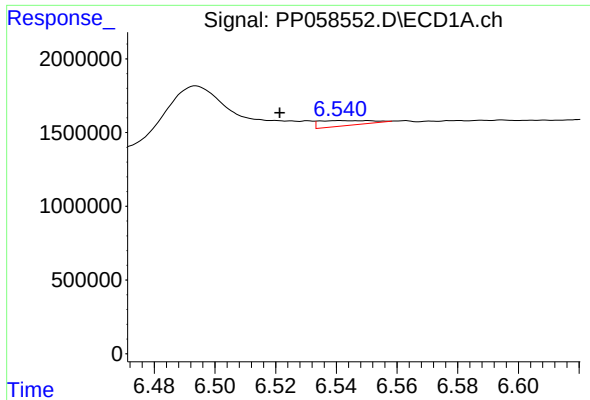
#23 AR-1248-3

R.T.: 6.142 min
Delta R.T.: 0.026 min
Response: 2667888
Conc: 37.87 ng/ml



#23 AR-1248-3

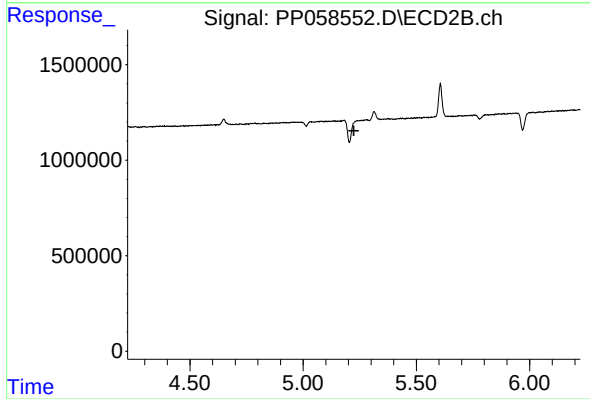
R.T.: 5.060 min
Delta R.T.: 0.008 min
Response: 192250
Conc: 4.05 ng/ml



#24 AR-1248-4

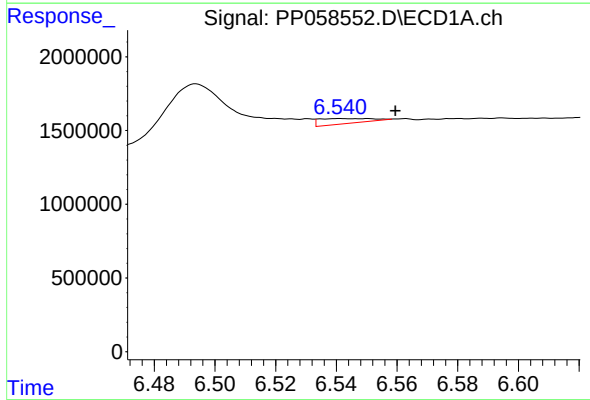
R.T.: 6.541 min
Delta R.T.: 0.020 min
Response: 404695
Conc: 5.93 ng/ml

Instrument :
ECD_P
ClientSampleId :



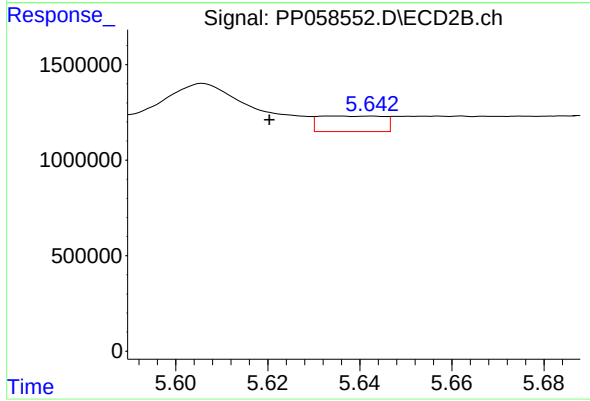
#24 AR-1248-4

R.T.: 0.000 min
Exp R.T. : 5.224 min
Response: 0
Conc: N.D.



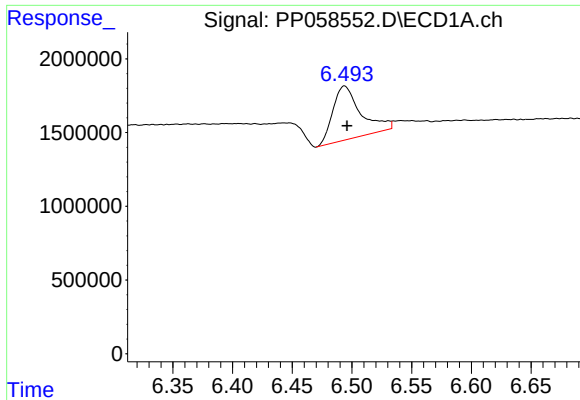
#25 AR-1248-5

R.T.: 6.541 min
Delta R.T.: -0.018 min
Response: 404695
Conc: 6.31 ng/ml



#25 AR-1248-5

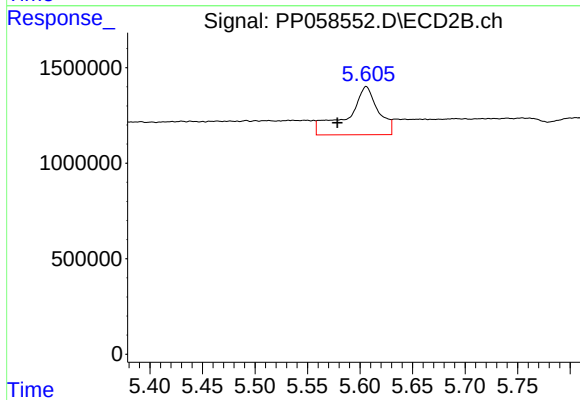
R.T.: 5.634 min
Delta R.T.: 0.014 min
Response: 795697
Conc: 16.21 ng/ml



#26 AR-1254-1

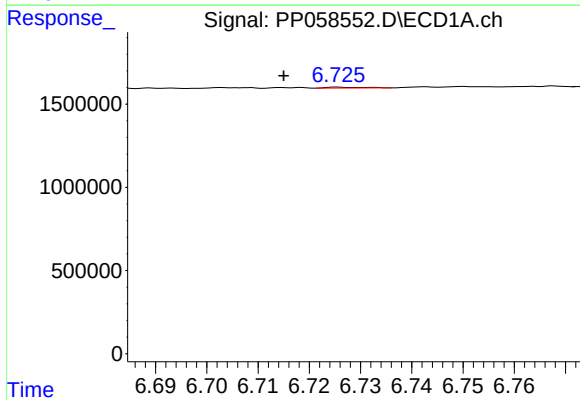
R.T.: 6.494 min
Delta R.T.: -0.002 min
Response: 5933160
Conc: 77.39 ng/ml

Instrument :
ECD_P
ClientSampleId :



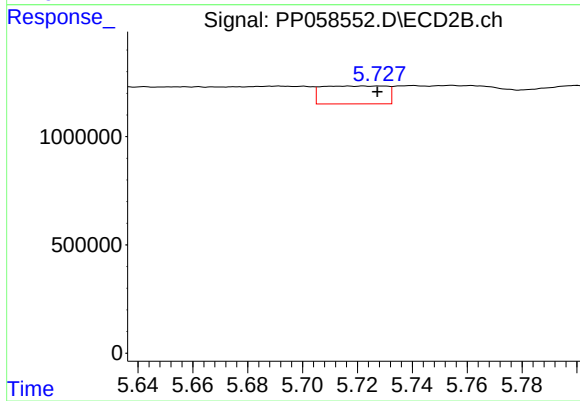
#26 AR-1254-1

R.T.: 5.606 min
Delta R.T.: 0.027 min
Response: 5171179
Conc: 67.03 ng/ml



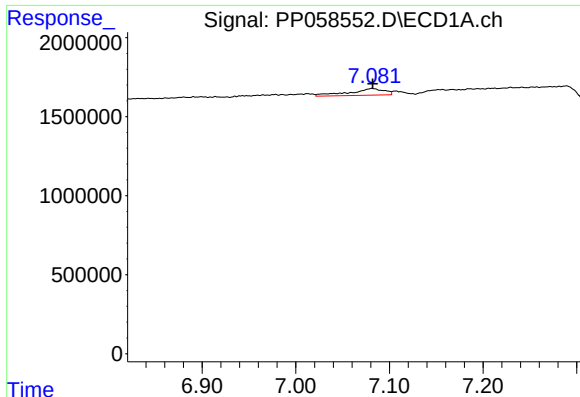
#27 AR-1254-2

R.T.: 6.726 min
Delta R.T.: 0.011 min
Response: 25914
Conc: 0.23 ng/ml



#27 AR-1254-2

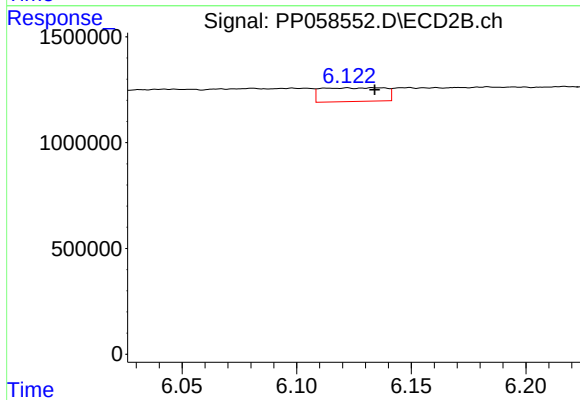
R.T.: 5.716 min
Delta R.T.: -0.011 min
Response: 1343492
Conc: 19.62 ng/ml



#28 AR-1254-3

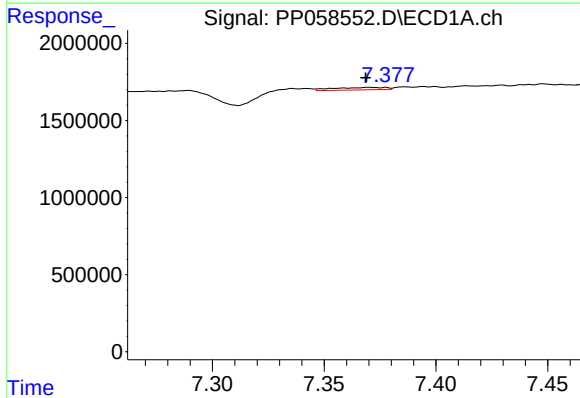
R.T.: 7.082 min
Delta R.T.: 0.000 min
Response: 1071292
Conc: 9.99 ng/ml

Instrument :
ECD_P
ClientSampleId :



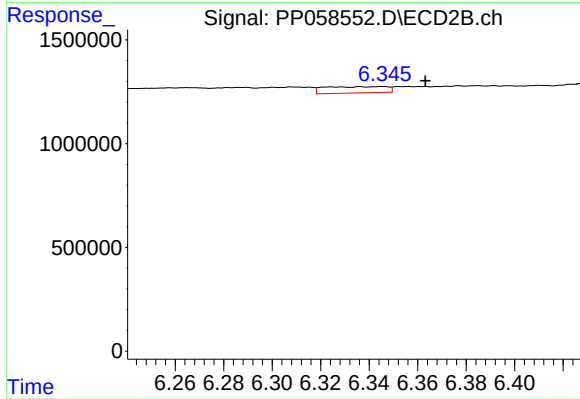
#28 AR-1254-3

R.T.: 6.122 min
Delta R.T.: -0.012 min
Response: 1248404
Conc: 11.89 ng/ml



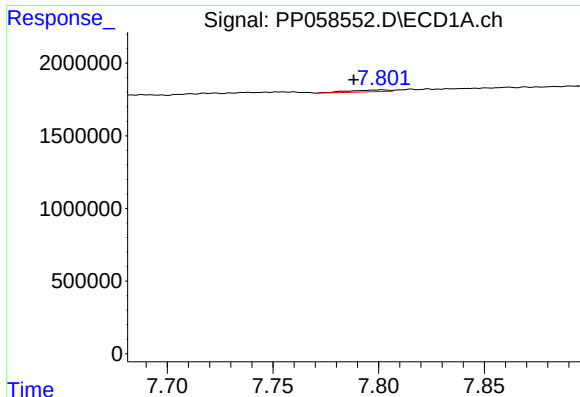
#29 AR-1254-4

R.T.: 7.370 min
Delta R.T.: 0.002 min
Response: 259138
Conc: 3.56 ng/ml



#29 AR-1254-4

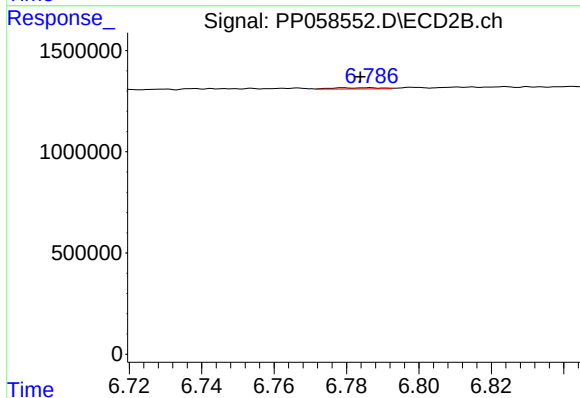
R.T.: 6.345 min
Delta R.T.: -0.018 min
Response: 546249
Conc: 9.14 ng/ml



#30 AR-1254-5

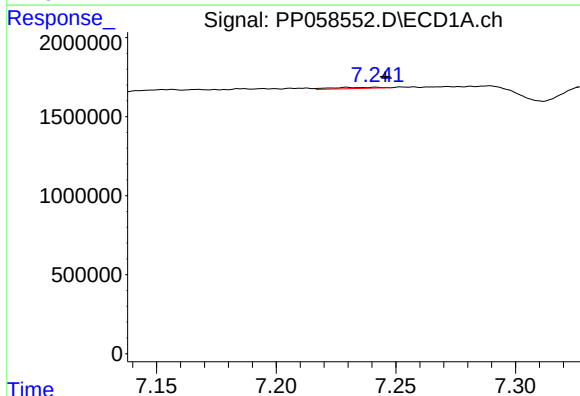
R.T.: 7.802 min
Delta R.T.: 0.014 min
Response: 156011
Conc: 1.93 ng/ml

Instrument :
ECD_P
ClientSampleId :



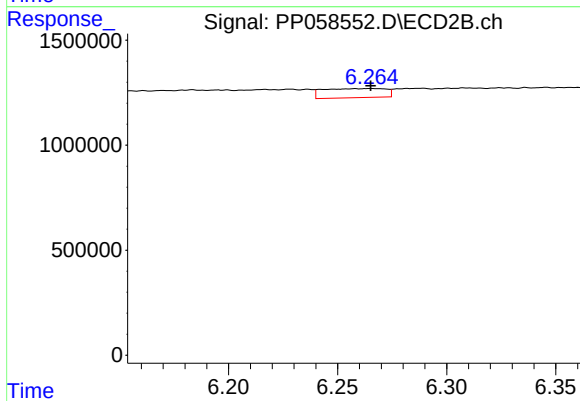
#30 AR-1254-5

R.T.: 6.786 min
Delta R.T.: 0.002 min
Response: 54325
Conc: 0.59 ng/ml



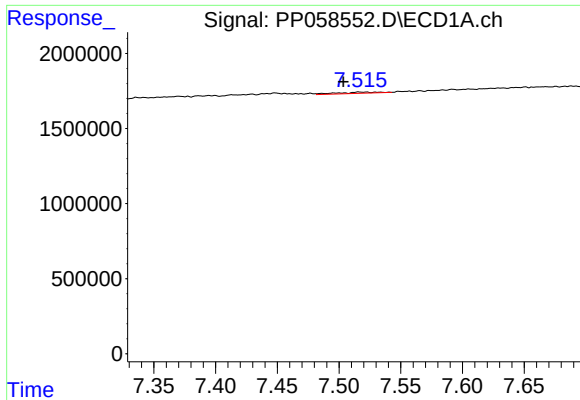
#31 AR-1260-1

R.T.: 7.242 min
Delta R.T.: -0.004 min
Response: 102729
Conc: 1.18 ng/ml



#31 AR-1260-1

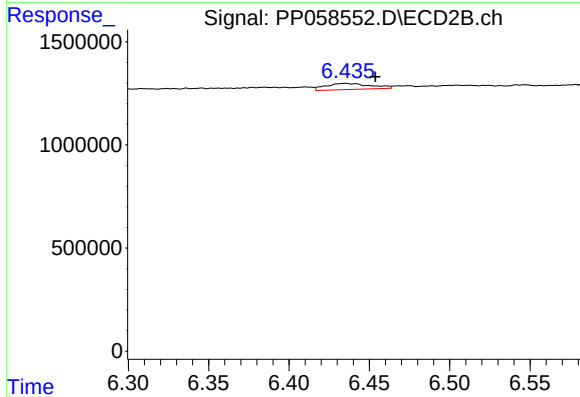
R.T.: 6.265 min
Delta R.T.: 0.000 min
Response: 871990
Conc: 11.28 ng/ml



#32 AR-1260-2

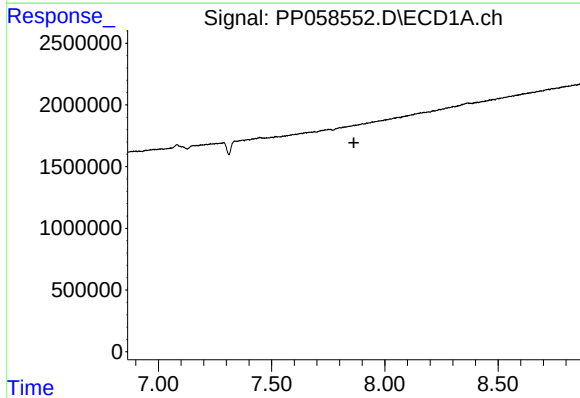
R.T.: 7.516 min
Delta R.T.: 0.013 min
Response: 183408
Conc: 1.90 ng/ml

Instrument :
ECD_P
ClientSampleId :



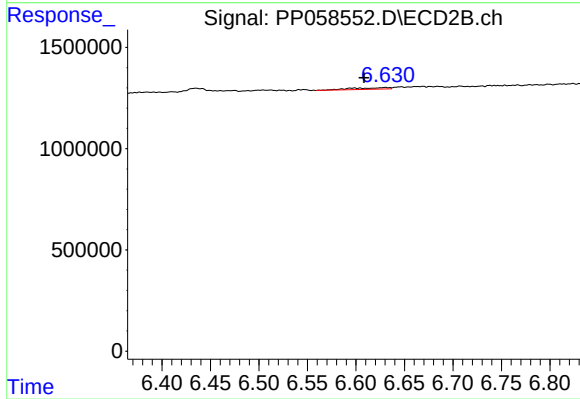
#32 AR-1260-2

R.T.: 6.435 min
Delta R.T.: -0.019 min
Response: 568946
Conc: 6.43 ng/ml



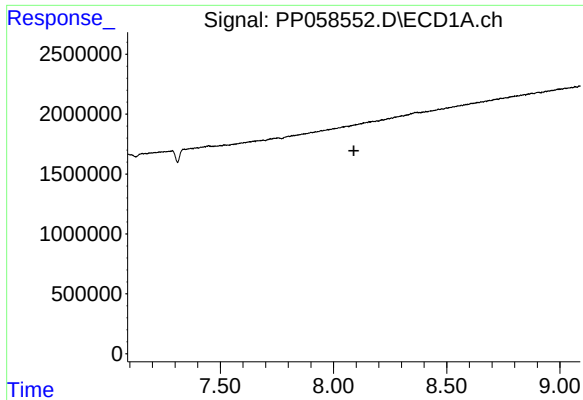
#33 AR-1260-3

R.T.: 0.000 min
Exp R.T. : 7.863 min
Response: 0
Conc: N.D.



#33 AR-1260-3

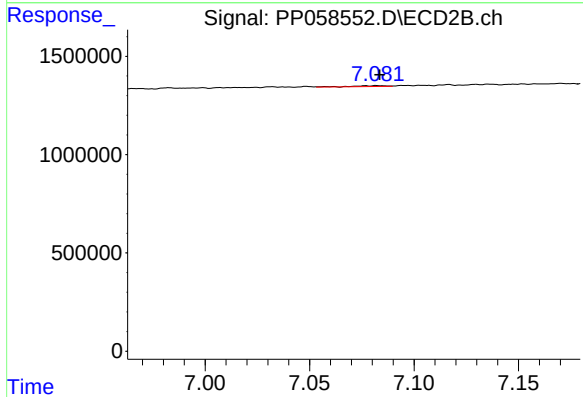
R.T.: 6.630 min
Delta R.T.: 0.022 min
Response: 215200
Conc: 2.55 ng/ml



#34 AR-1260-4

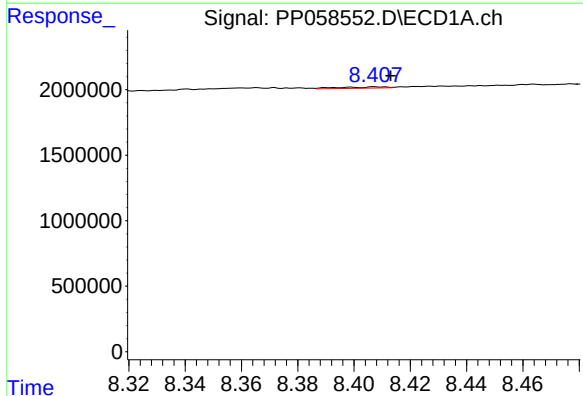
R.T.: 0.000 min
Exp R.T.: 8.090 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :



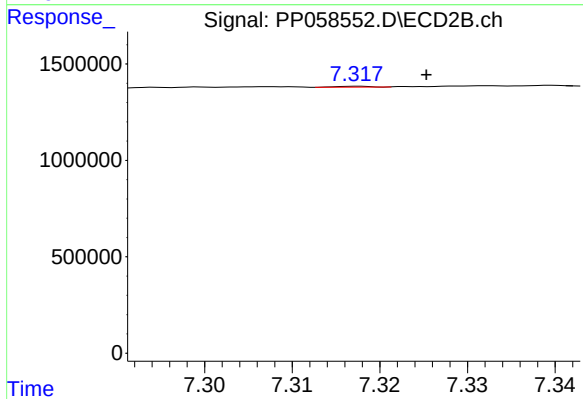
#34 AR-1260-4

R.T.: 7.077 min
Delta R.T.: -0.007 min
Response: 50193
Conc: 0.83 ng/ml



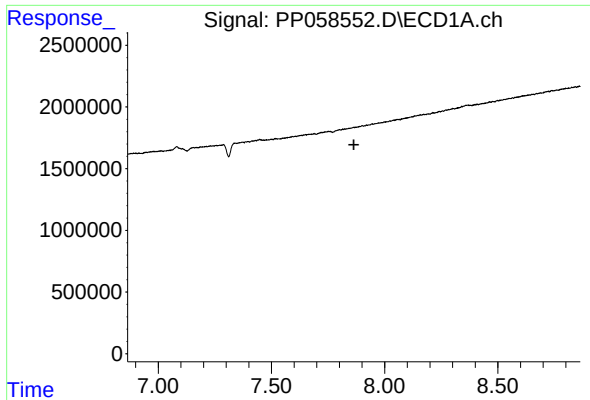
#35 AR-1260-5

R.T.: 8.407 min
Delta R.T.: -0.006 min
Response: 116162
Conc: 0.89 ng/ml



#35 AR-1260-5

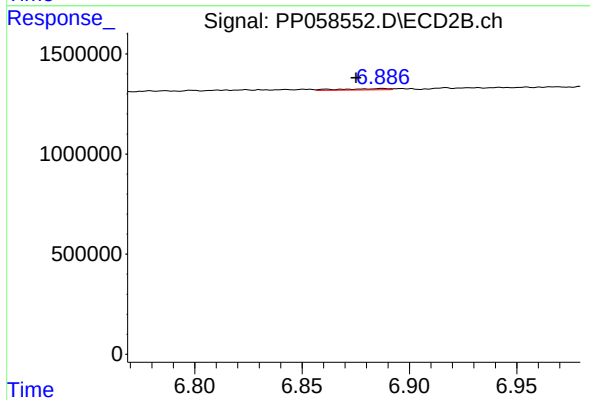
R.T.: 7.317 min
Delta R.T.: -0.008 min
Response: 13599
Conc: 0.11 ng/ml



#36 AR-1262-1

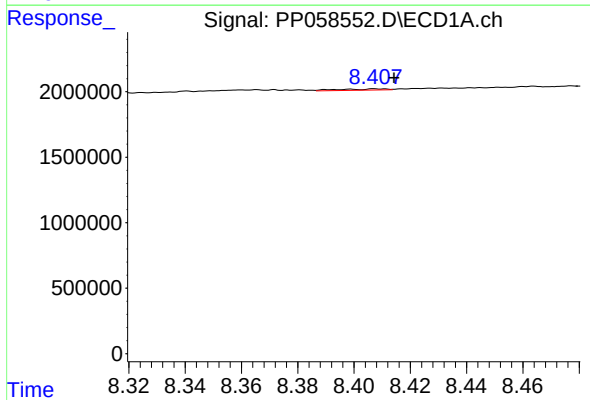
R.T.: 0.000 min
Exp R.T.: 7.864 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :



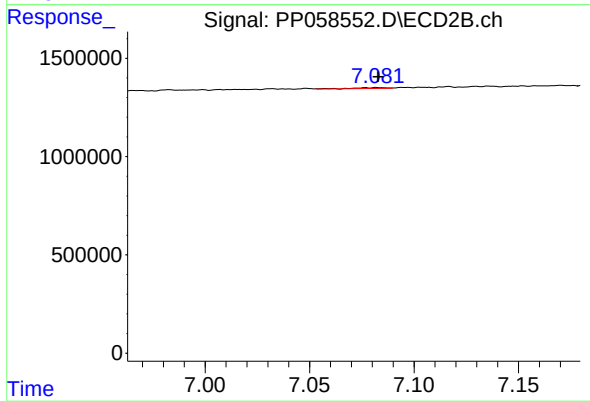
#36 AR-1262-1

R.T.: 6.887 min
Delta R.T.: 0.012 min
Response: 101685
Conc: 2.39 ng/ml



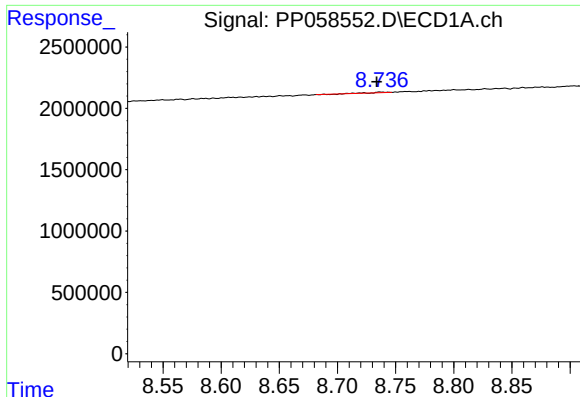
#37 AR-1262-2

R.T.: 8.407 min
Delta R.T.: -0.007 min
Response: 116162
Conc: 0.69 ng/ml



#37 AR-1262-2

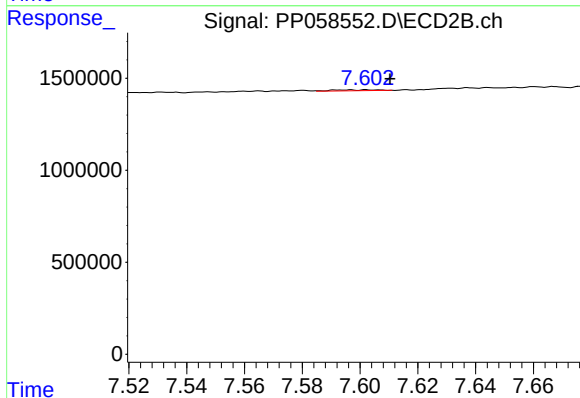
R.T.: 7.077 min
Delta R.T.: -0.006 min
Response: 50193
Conc: 0.56 ng/ml



#38 AR-1262-3

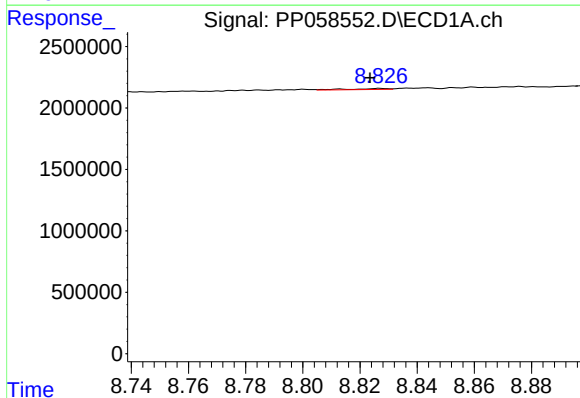
R.T.: 8.737 min
Delta R.T.: 0.003 min
Response: 32609
Conc: 0.29 ng/ml

Instrument :
ECD_P
ClientSampleId :



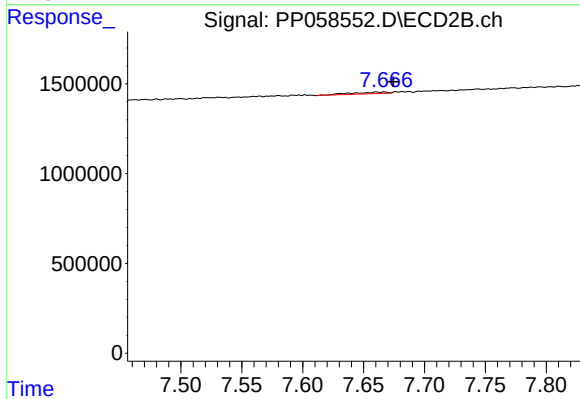
#38 AR-1262-3

R.T.: 7.602 min
Delta R.T.: -0.008 min
Response: 53852
Conc: 0.79 ng/ml



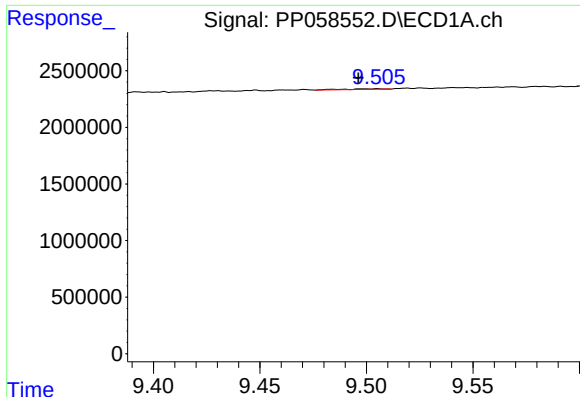
#39 AR-1262-4

R.T.: 8.827 min
Delta R.T.: 0.004 min
Response: 77807
Conc: 0.90 ng/ml



#39 AR-1262-4

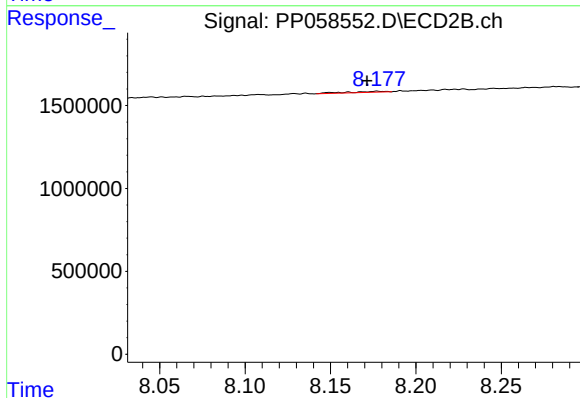
R.T.: 7.667 min
Delta R.T.: -0.007 min
Response: 193877
Conc: 1.59 ng/ml



#40 AR-1262-5

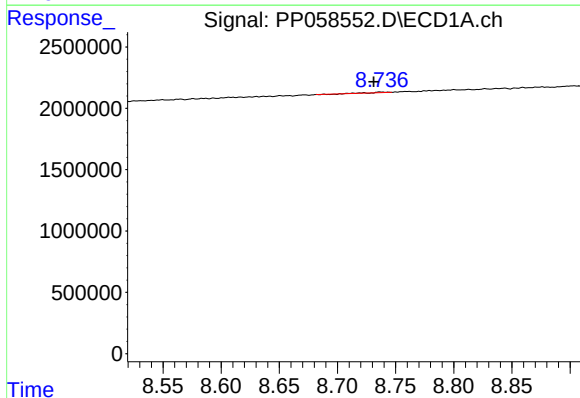
R.T.: 9.505 min
Delta R.T.: 0.009 min
Response: 70962
Conc: 1.29 ng/ml

Instrument :
ECD_P
ClientSampleId :



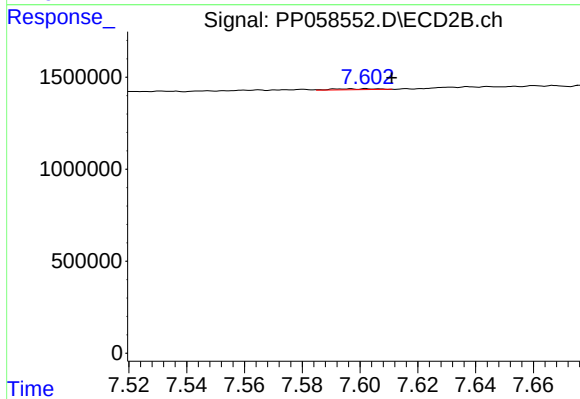
#40 AR-1262-5

R.T.: 8.177 min
Delta R.T.: 0.006 min
Response: 88484
Conc: 1.67 ng/ml



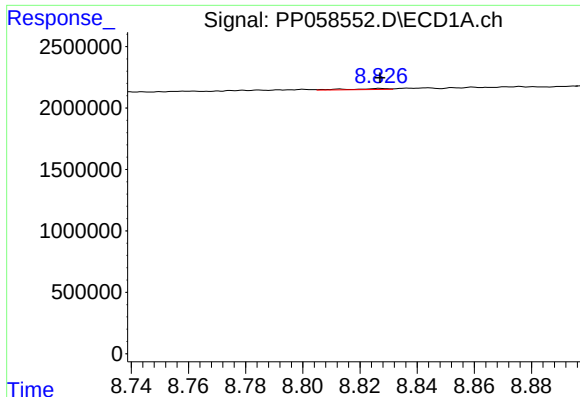
#41 AR-1268-1

R.T.: 8.737 min
Delta R.T.: 0.006 min
Response: 32609
Conc: 0.17 ng/ml



#41 AR-1268-1

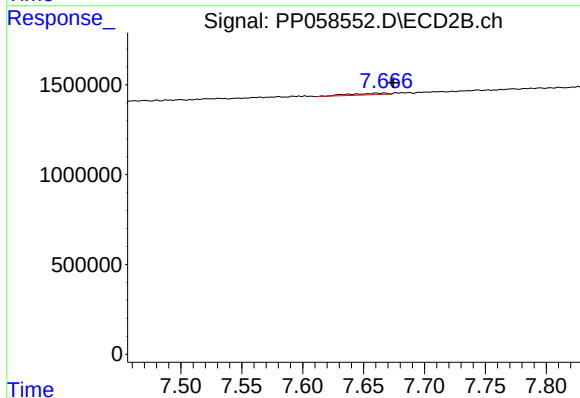
R.T.: 7.602 min
Delta R.T.: -0.009 min
Response: 53852
Conc: 0.29 ng/ml



#42 AR-1268-2

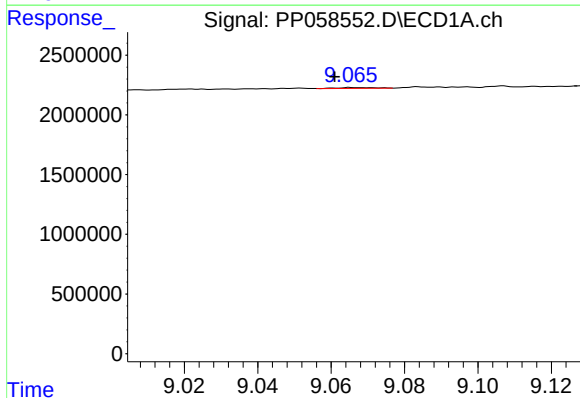
R.T.: 8.827 min
Delta R.T.: 0.000 min
Response: 77807
Conc: 0.45 ng/ml

Instrument :
ECD_P
ClientSampleId :



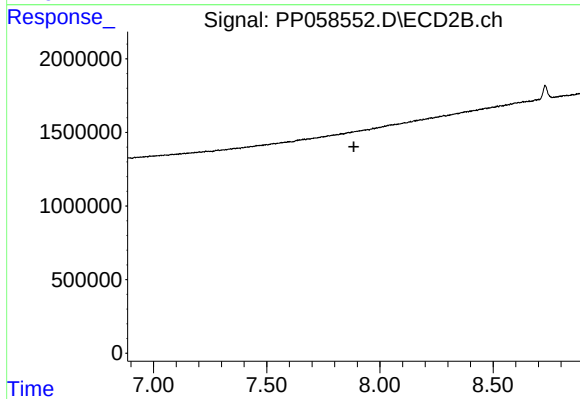
#42 AR-1268-2

R.T.: 7.667 min
Delta R.T.: -0.007 min
Response: 193877
Conc: 1.18 ng/ml



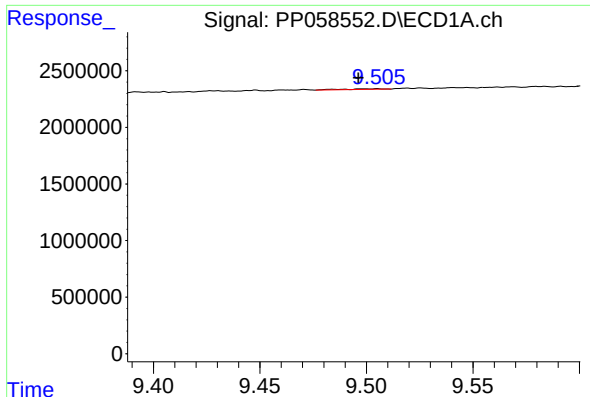
#43 AR-1268-3

R.T.: 9.066 min
Delta R.T.: 0.005 min
Response: 51477
Conc: 0.33 ng/ml



#43 AR-1268-3

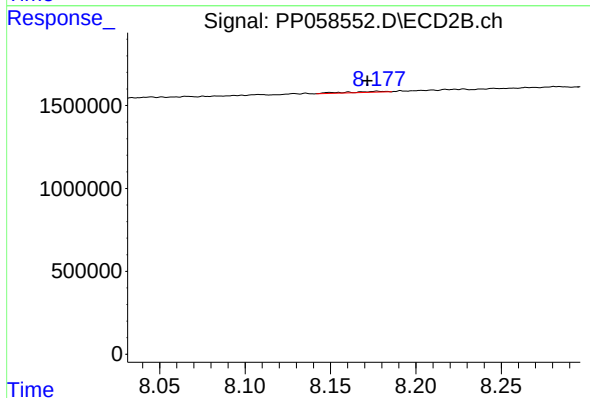
R.T.: 0.000 min
Exp R.T. : 7.885 min
Response: 0
Conc: N.D.



#44 AR-1268-4

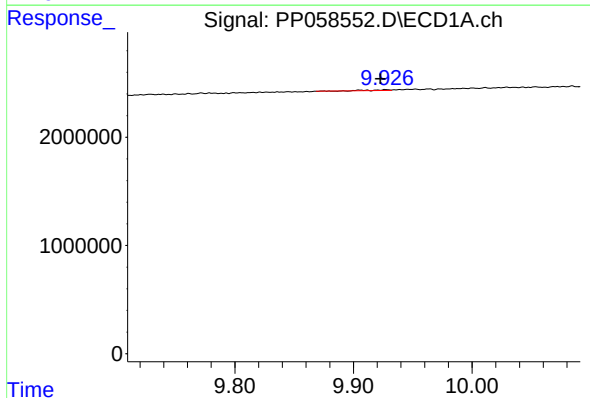
R.T.: 9.505 min
Delta R.T.: 0.009 min
Response: 70962
Conc: 1.24 ng/ml

Instrument :
ECD_P
ClientSampleId :



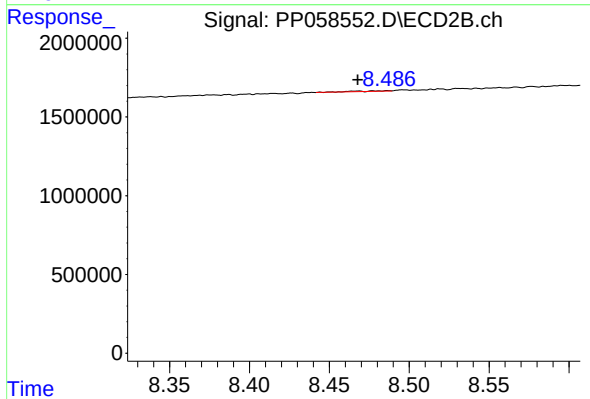
#44 AR-1268-4

R.T.: 8.177 min
Delta R.T.: 0.006 min
Response: 88484
Conc: 1.63 ng/ml



#45 AR-1268-5

R.T.: 9.927 min
Delta R.T.: 0.005 min
Response: 66560
Conc: 0.14 ng/ml



#45 AR-1268-5

R.T.: 8.468 min
Delta R.T.: 0.000 min
Response: 51399
Conc: 0.12 ng/ml