

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP080321\
 Data File : PP037934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Aug 2021 11:00
 Operator : AJ\MA
 Sample : M3238-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 03 13:13:37 2021
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP080221.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Aug 03 05:09:57 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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...	4.893	3.878	1069878	578090	24.011	23.027
2)	SA Decachlor...	10.885	9.151	536263	581284	20.470	24.823
Target Compounds							
3)	L1 AR-1016-1	6.208	5.145f	11968	18963	7.578	20.774 #
4)	L1 AR-1016-2	6.234	5.145	18962	18963	8.465	15.022 #
5)	L1 AR-1016-3	6.299	5.346	17055	25198	12.323	37.595 #
7)	L1 AR-1016-5	6.717	5.638f	32461	20350	29.731	29.791
8)	L2 AR-1221-1	5.146	4.126	109692	98129	210.643	366.429 #
9)	L2 AR-1221-2	5.247	0.000	13887	0	35.430	N.D. #
10)	L2 AR-1221-3	5.319	4.322	10611	31783	8.951	45.975 #
11)	L3 AR-1232-1	5.344	4.322	66534	31783	60.772	50.285
12)	L3 AR-1232-2	5.917	5.145	4517	18963	8.133	33.950 #
13)	L3 AR-1232-3	6.234	5.346	18962	25198	18.899	86.922 #
14)	L3 AR-1232-4	0.000	5.444	0	24277	N.D.	95.114 #
15)	L3 AR-1232-5	6.505	5.638f	11346	20350	32.886	75.483 #
16)	L4 AR-1242-1	6.208	5.145f	11968	18963	9.778	27.190 #
17)	L4 AR-1242-2	6.234	5.145	18962	18963	10.850	20.105 #
18)	L4 AR-1242-3	6.299	5.346	17055	25198	15.520	48.592 #
19)	L4 AR-1242-4	0.000	5.444	0	24277	N.D.	48.288 #
20)	L4 AR-1242-5	7.212f	5.996	289842	84428	320.439	137.408 #
21)	L5 AR-1248-1	6.208	5.145f	11968	18963	12.312	35.674 #
22)	L5 AR-1248-2	6.505	0.000	11346	0	8.962	N.D. #
23)	L5 AR-1248-3	6.717	5.444	32461	24277	21.857	30.009 #
24)	L5 AR-1248-4	7.153	5.638f	134283	20350	82.377	22.056 #
25)	L5 AR-1248-5	7.212f	6.038	289842	18926	181.140	20.367 #
26)	L6 AR-1254-1	7.131	5.996	117995	84428	75.253	64.079
27)	L6 AR-1254-2	7.355	6.155	276326	94092	117.909	82.519 #
28)	L6 AR-1254-3	7.735	6.574	145625	64167	59.176	34.160 #
30)	L6 AR-1254-5	8.454	7.241	284771	405976	164.371	249.579 #
31)	L7 AR-1260-1	7.878f	6.695f	480392	248167	290.446	210.893 #
32)	L7 AR-1260-2	8.164	6.911	318894	360625	161.121	252.400 #
33)	L7 AR-1260-3	8.530	7.063	183022	122159	125.015	86.483 #
34)	L7 AR-1260-4	8.761	7.545	189403	136759	109.269	120.685
35)	L7 AR-1260-5	9.085	7.794	423072	439250	129.217	158.329
36)	L8 AR-1262-1	8.530	7.241	183022	405976	90.937	445.887 #
37)	L8 AR-1262-2	9.085	7.794	423072	439250	119.851	139.660
38)	L8 AR-1262-3	9.391	8.080	238008	359101	150.706	281.031 #
39)	L8 AR-1262-4	9.486	8.146	275873	541502	305.586	221.138 #
40)	L8 AR-1262-5	10.145	8.642	187149	198289	161.480	168.482
41)	L9 AR-1268-1	9.391	8.080	238008	359101	60.934	100.790 #
42)	L9 AR-1268-2	9.486	8.146	275873	541502	77.779	160.680 #
43)	L9 AR-1268-3	9.712	8.352	18168	31645	6.095	11.436 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP080321\
 Data File : PP037934.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 03 Aug 2021 11:00
 Operator : AJ\MA
 Sample : M3238-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_P
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Aug 03 13:13:37 2021
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP080221.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Aug 03 05:09:57 2021
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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
44) L9	AR-1268-4	10.145	8.642	187149	198289	149.193	167.095
45) L9	AR-1268-5	10.553	8.916	168770	173435	17.661	19.290

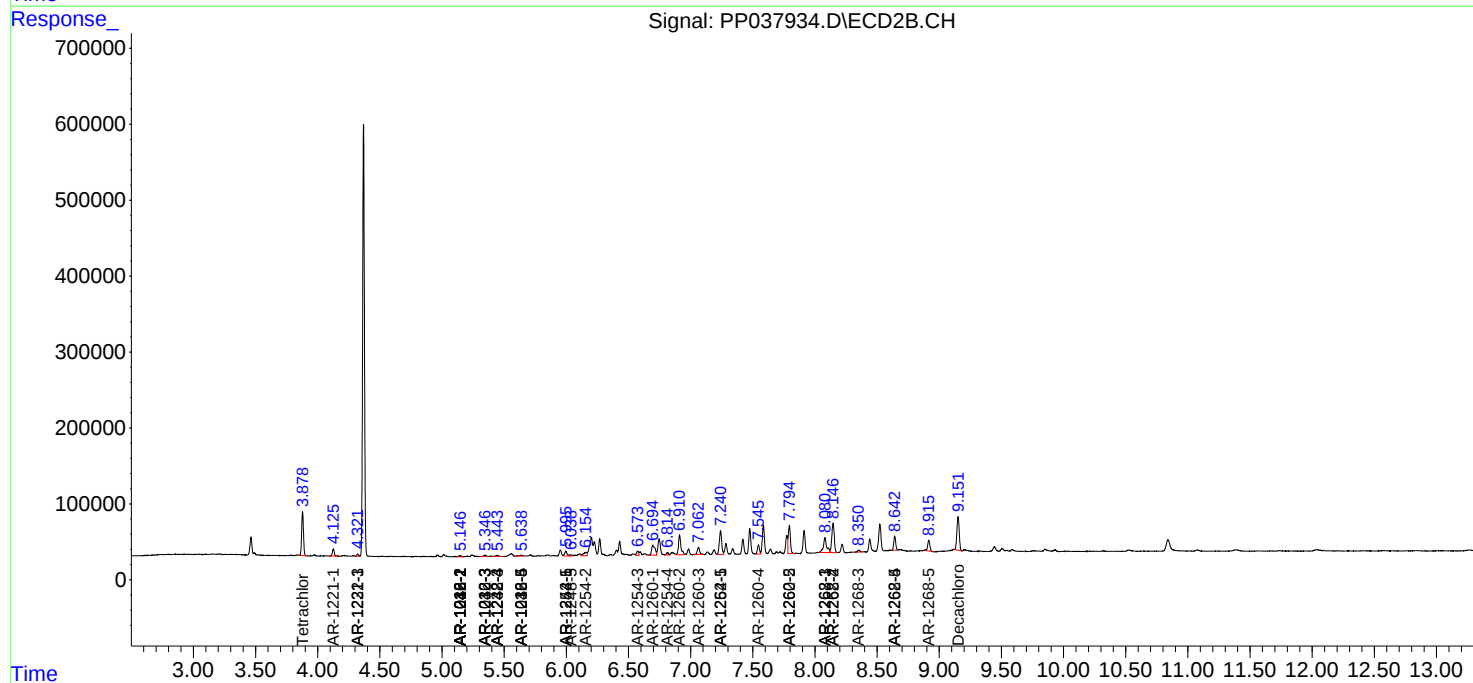
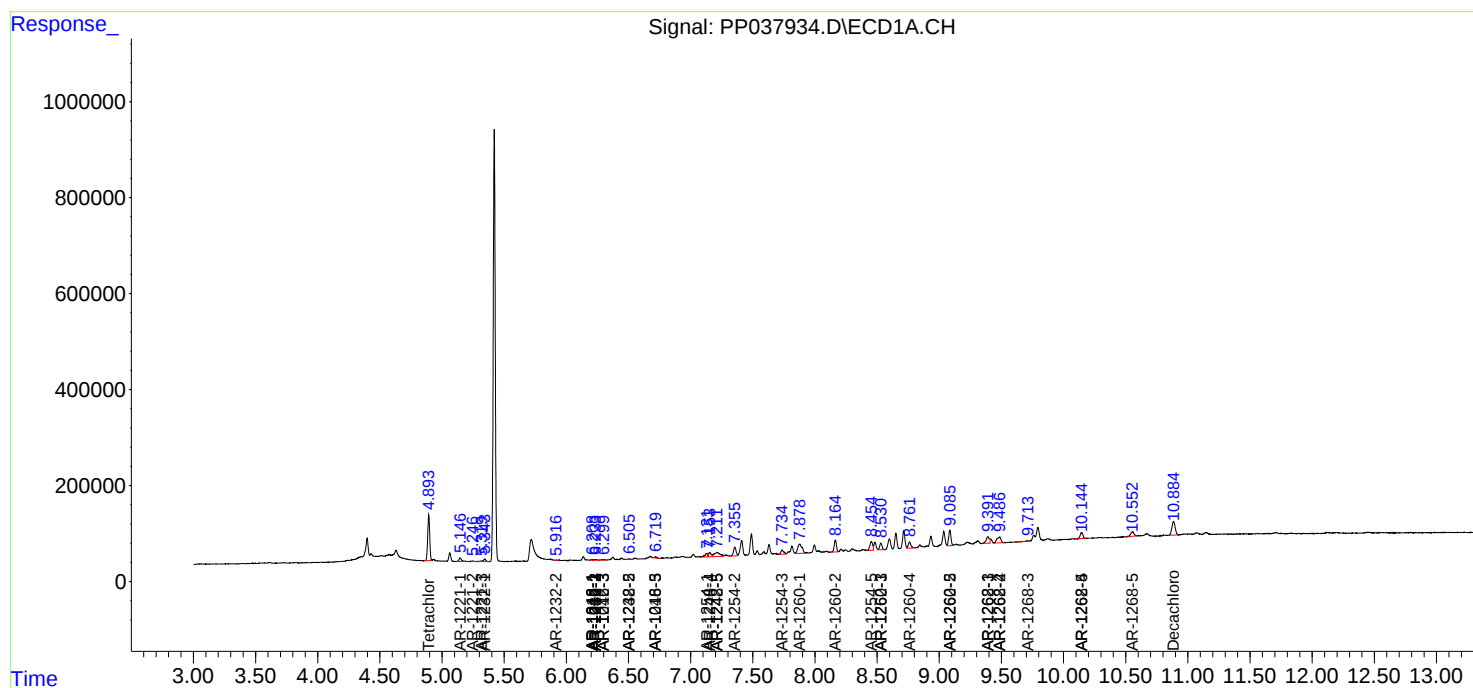
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

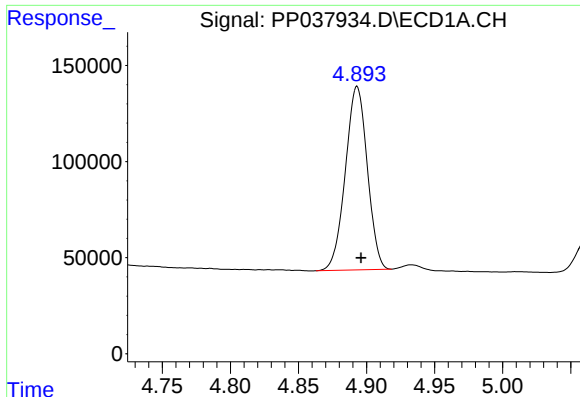
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_P\Data\PP080321\
Data File : PP037934.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Aug 2021 11:00
Operator : AJ\MA
Sample : M3238-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_P
ClientSampled :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 03 13:13:37 2021
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_P\methods\PP080221.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Aug 03 05:09:57 2021
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

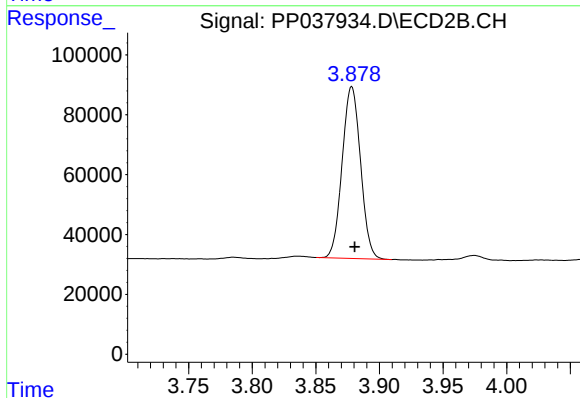




#1 Tetrachloro-m-xylene

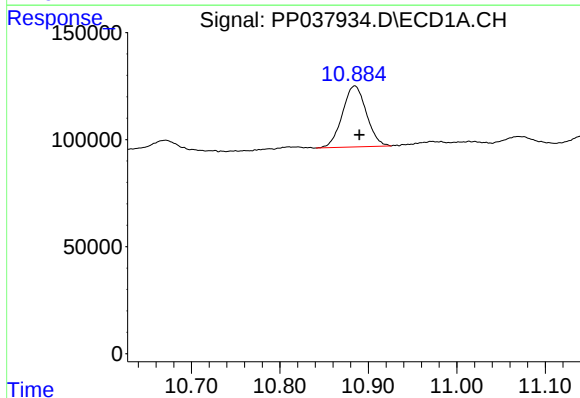
R.T.: 4.893 min
Delta R.T.: -0.003 min
Response: 1069878
Conc: 24.01 ng/ml

Instrument :
ECD_P
ClientSampleId :



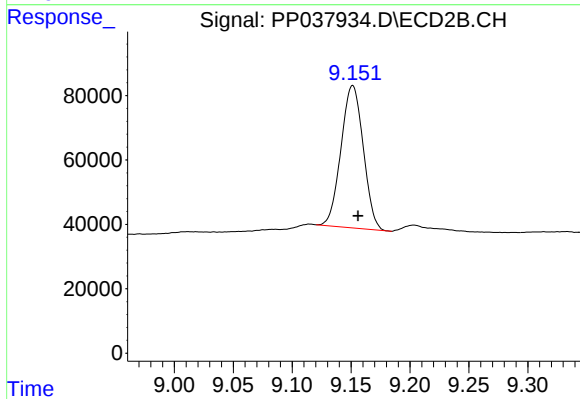
#1 Tetrachloro-m-xylene

R.T.: 3.878 min
Delta R.T.: -0.002 min
Response: 578090
Conc: 23.03 ng/ml



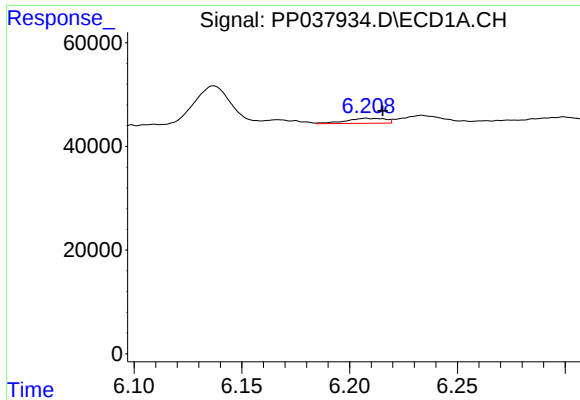
#2 Decachlorobiphenyl

R.T.: 10.885 min
Delta R.T.: -0.005 min
Response: 536263
Conc: 20.47 ng/ml



#2 Decachlorobiphenyl

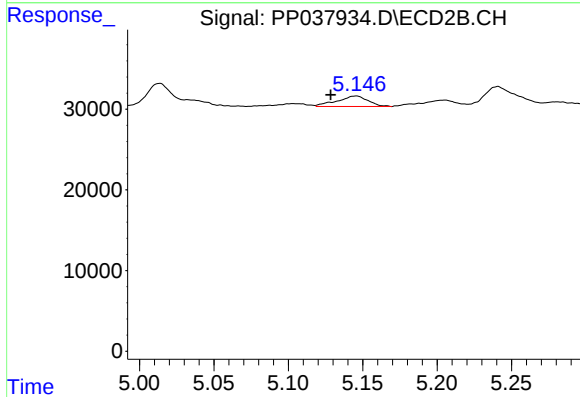
R.T.: 9.151 min
Delta R.T.: -0.005 min
Response: 581284
Conc: 24.82 ng/ml



#3 AR-1016-1

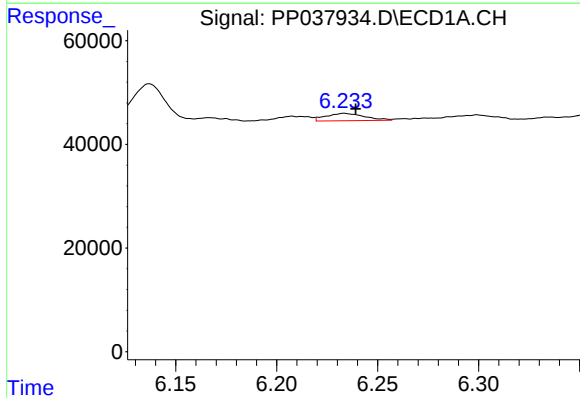
R.T.: 6.208 min
Delta R.T.: -0.008 min
Response: 11968
Conc: 7.58 ng/ml

Instrument :
ECD_P
ClientSampleId :



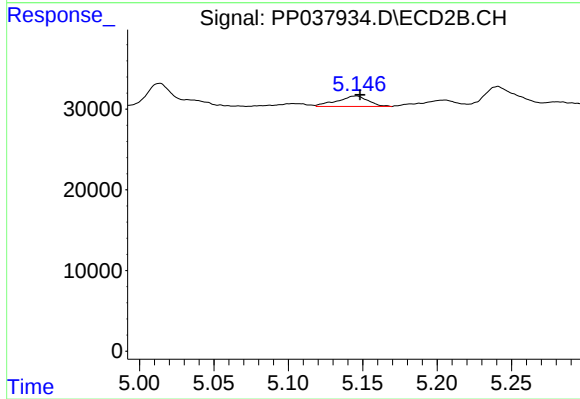
#3 AR-1016-1

R.T.: 5.145 min
Delta R.T.: 0.017 min
Response: 18963
Conc: 20.77 ng/ml



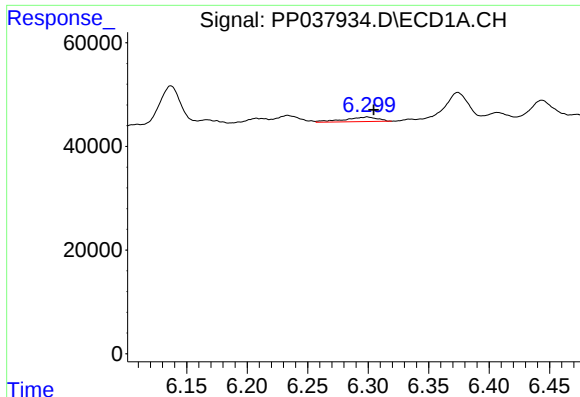
#4 AR-1016-2

R.T.: 6.234 min
Delta R.T.: -0.006 min
Response: 18962
Conc: 8.47 ng/ml



#4 AR-1016-2

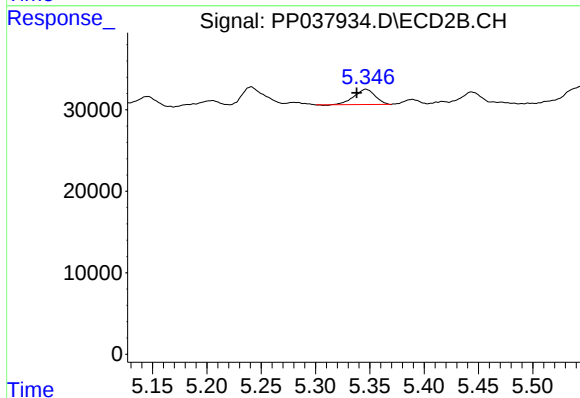
R.T.: 5.145 min
Delta R.T.: -0.003 min
Response: 18963
Conc: 15.02 ng/ml



#5 AR-1016-3

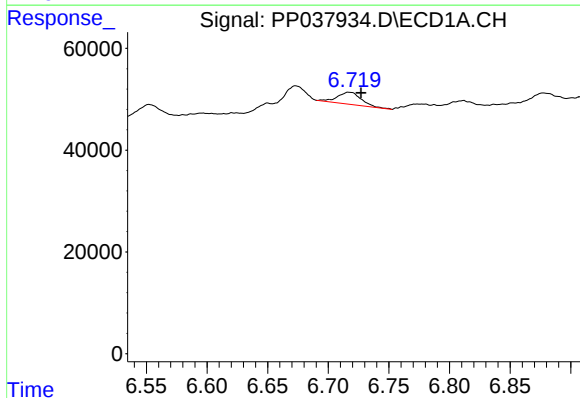
R.T.: 6.299 min
Delta R.T.: -0.005 min
Response: 17055
Conc: 12.32 ng/ml

Instrument :
ECD_P
ClientSampleId :



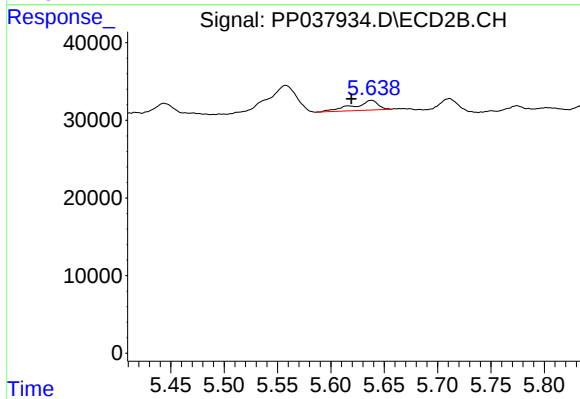
#5 AR-1016-3

R.T.: 5.346 min
Delta R.T.: 0.009 min
Response: 25198
Conc: 37.59 ng/ml



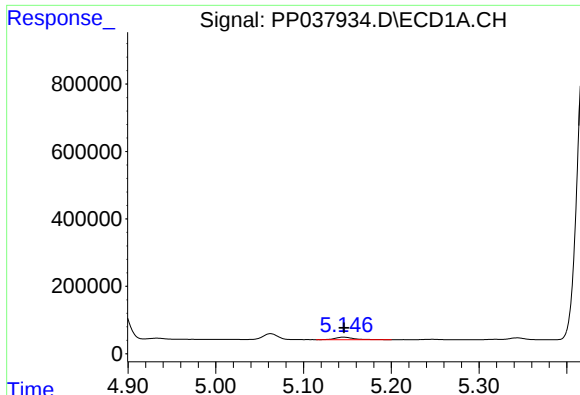
#7 AR-1016-5

R.T.: 6.717 min
Delta R.T.: -0.010 min
Response: 32461
Conc: 29.73 ng/ml



#7 AR-1016-5

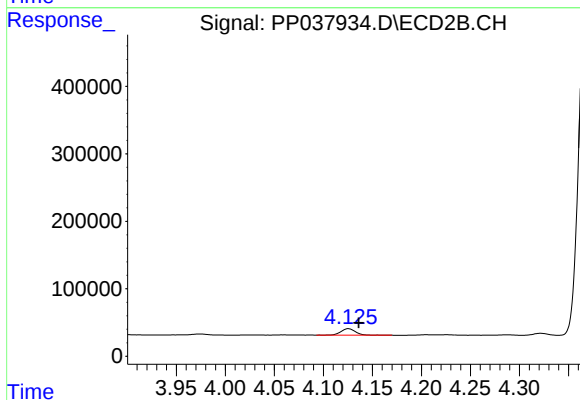
R.T.: 5.638 min
Delta R.T.: 0.019 min
Response: 20350
Conc: 29.79 ng/ml



#8 AR-1221-1

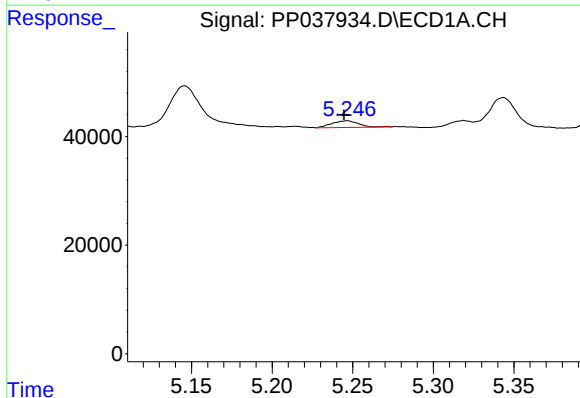
R.T.: 5.146 min
Delta R.T.: 0.000 min
Response: 109692
Conc: 210.64 ng/ml

Instrument :
ECD_P
ClientSampleId :



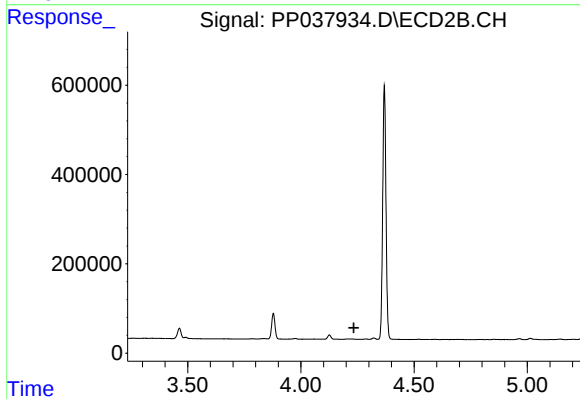
#8 AR-1221-1

R.T.: 4.126 min
Delta R.T.: -0.010 min
Response: 98129
Conc: 366.43 ng/ml



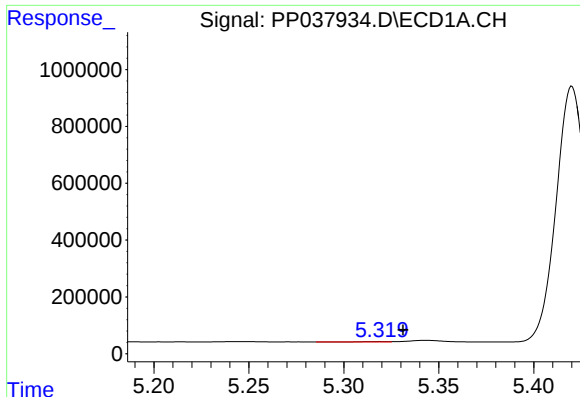
#9 AR-1221-2

R.T.: 5.247 min
Delta R.T.: 0.002 min
Response: 13887
Conc: 35.43 ng/ml



#9 AR-1221-2

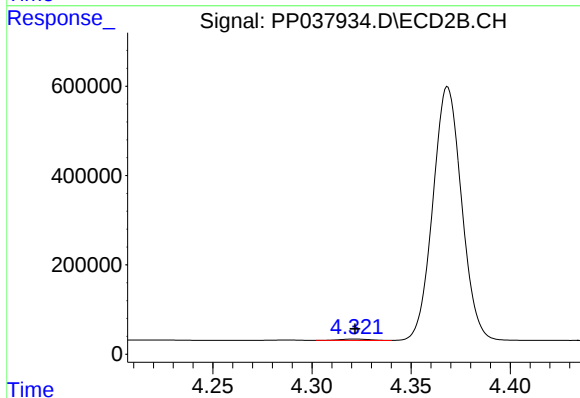
R.T.: 0.000 min
Exp R.T.: 4.234 min
Response: 0
Conc: N.D.



#10 AR-1221-3

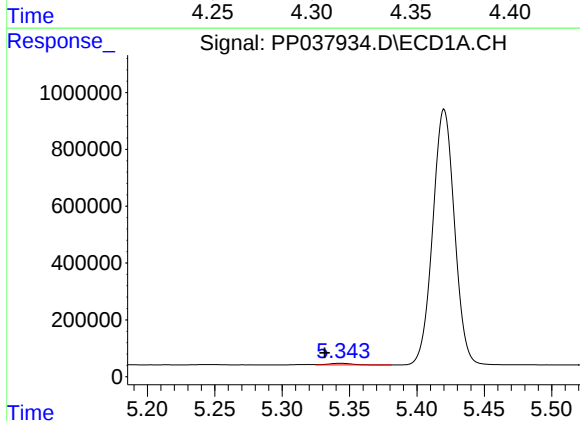
R.T.: 5.319 min
Delta R.T.: -0.012 min
Response: 10611
Conc: 8.95 ng/ml

Instrument :
ECD_P
ClientSampleId :



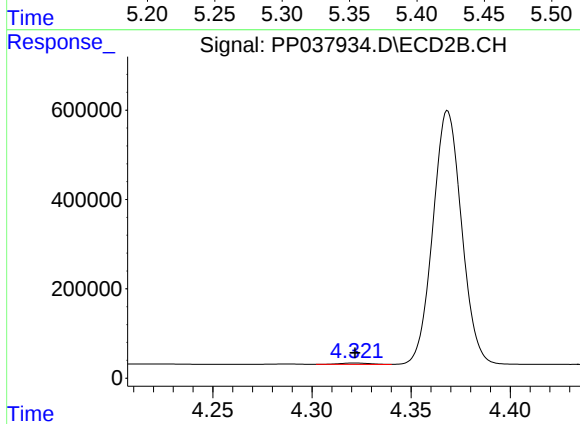
#10 AR-1221-3

R.T.: 4.322 min
Delta R.T.: 0.000 min
Response: 31783
Conc: 45.98 ng/ml



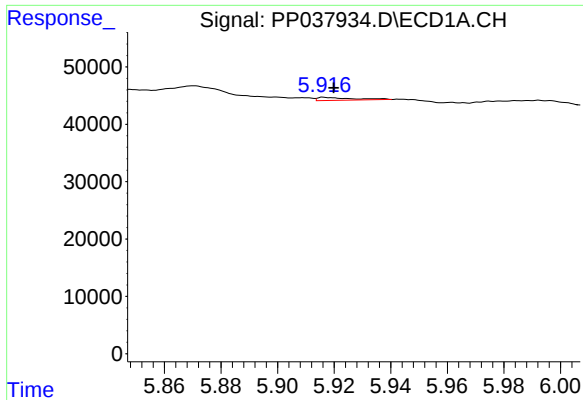
#11 AR-1232-1

R.T.: 5.344 min
Delta R.T.: 0.012 min
Response: 66534
Conc: 60.77 ng/ml



#11 AR-1232-1

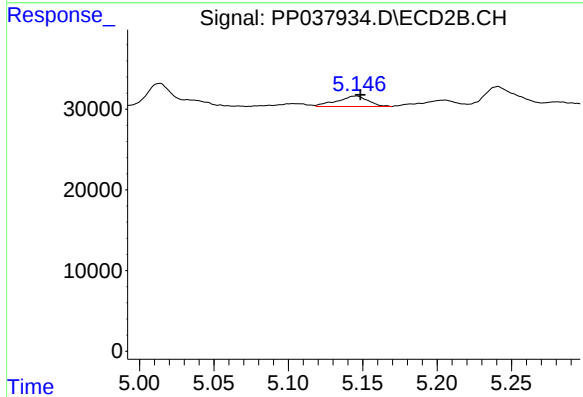
R.T.: 4.322 min
Delta R.T.: 0.000 min
Response: 31783
Conc: 50.28 ng/ml



#12 AR-1232-2

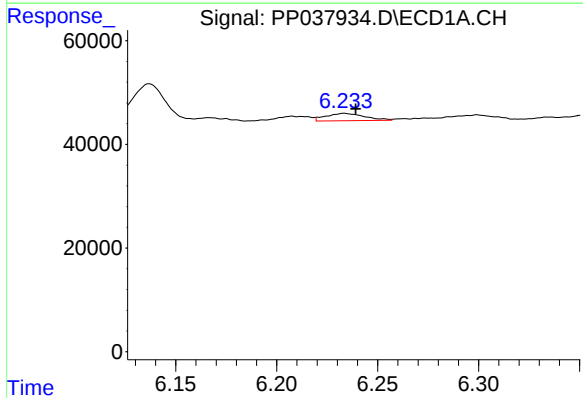
R.T.: 5.917 min
Delta R.T.: -0.003 min
Response: 4517
Conc: 8.13 ng/ml

Instrument :
ECD_P
ClientSampleId :



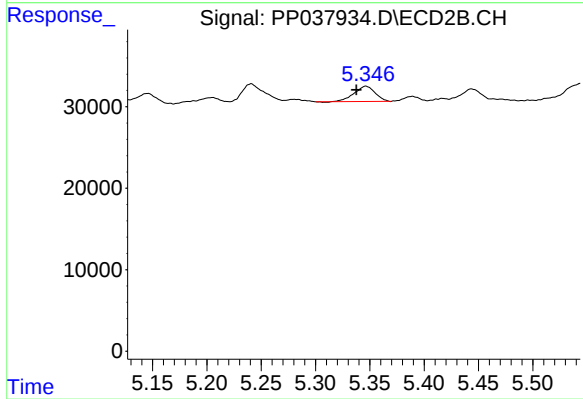
#12 AR-1232-2

R.T.: 5.145 min
Delta R.T.: -0.003 min
Response: 18963
Conc: 33.95 ng/ml



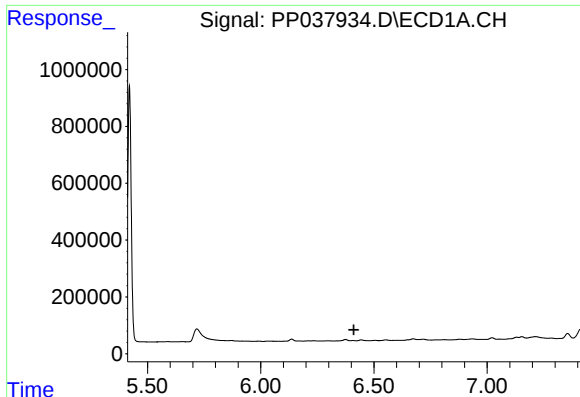
#13 AR-1232-3

R.T.: 6.234 min
Delta R.T.: -0.006 min
Response: 18962
Conc: 18.90 ng/ml



#13 AR-1232-3

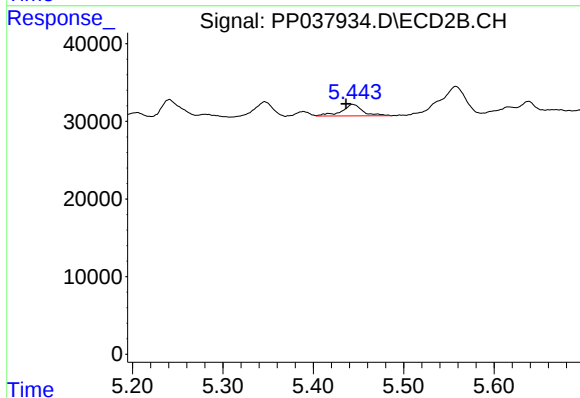
R.T.: 5.346 min
Delta R.T.: 0.009 min
Response: 25198
Conc: 86.92 ng/ml



#14 AR-1232-4

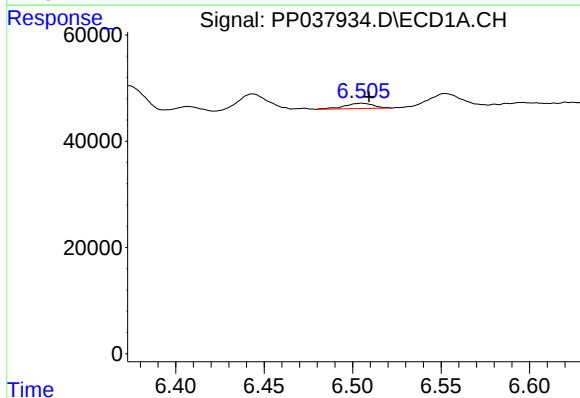
R.T.: 0.000 min
Exp R.T.: 6.412 min
Response: 0
Conc: N.D.

Instrument :
ECD_P
ClientSampleId :



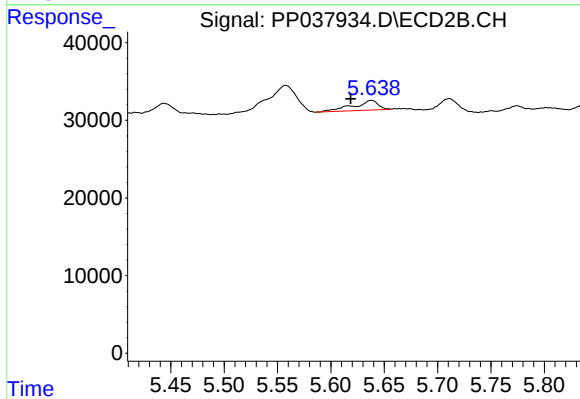
#14 AR-1232-4

R.T.: 5.444 min
Delta R.T.: 0.007 min
Response: 24277
Conc: 95.11 ng/ml



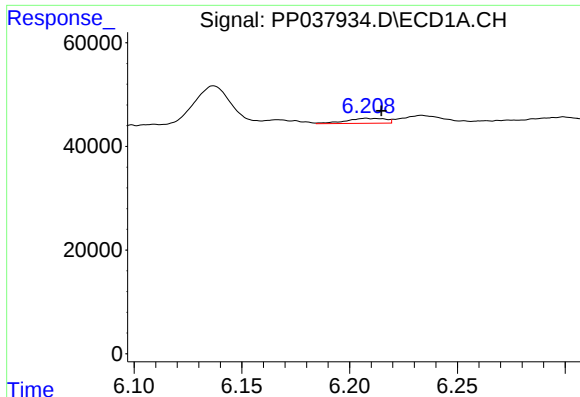
#15 AR-1232-5

R.T.: 6.505 min
Delta R.T.: -0.004 min
Response: 11346
Conc: 32.89 ng/ml



#15 AR-1232-5

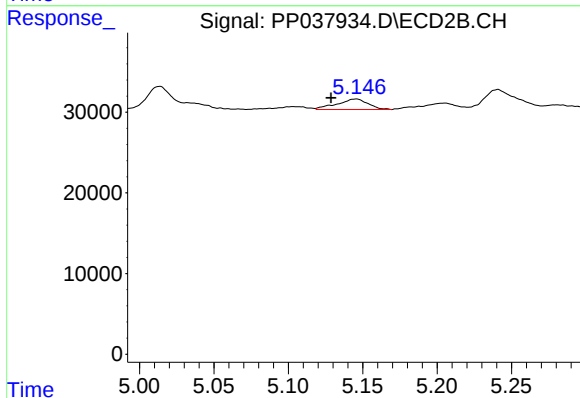
R.T.: 5.638 min
Delta R.T.: 0.019 min
Response: 20350
Conc: 75.48 ng/ml



#16 AR-1242-1

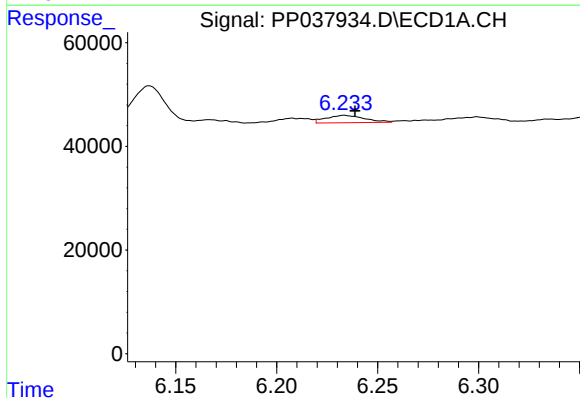
R.T.: 6.208 min
Delta R.T.: -0.007 min
Response: 11968
Conc: 9.78 ng/ml

Instrument :
ECD_P
ClientSampleId :



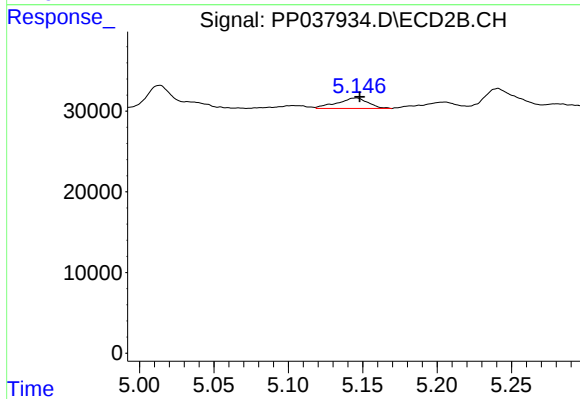
#16 AR-1242-1

R.T.: 5.145 min
Delta R.T.: 0.017 min
Response: 18963
Conc: 27.19 ng/ml



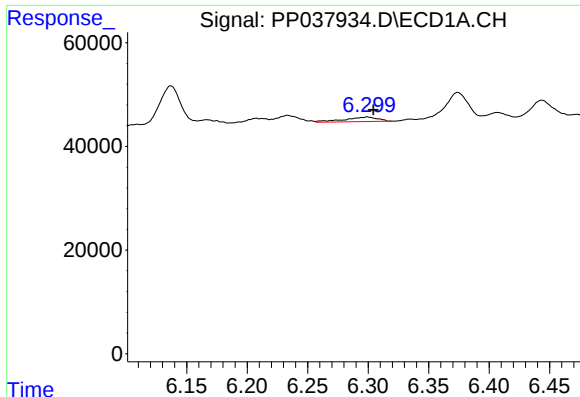
#17 AR-1242-2

R.T.: 6.234 min
Delta R.T.: -0.005 min
Response: 18962
Conc: 10.85 ng/ml



#17 AR-1242-2

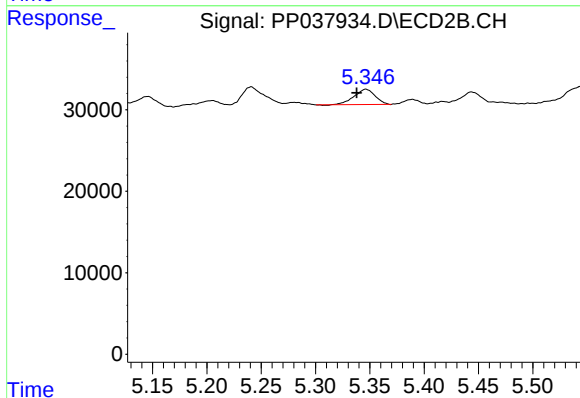
R.T.: 5.145 min
Delta R.T.: -0.003 min
Response: 18963
Conc: 20.10 ng/ml



#18 AR-1242-3

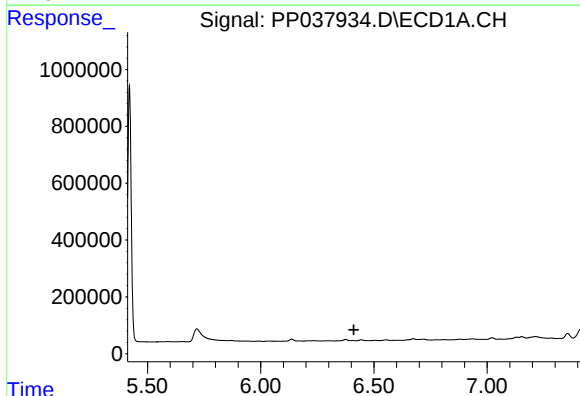
R.T.: 6.299 min
Delta R.T.: -0.005 min
Response: 17055
Conc: 15.52 ng/ml

Instrument :
ECD_P
ClientSampleId :



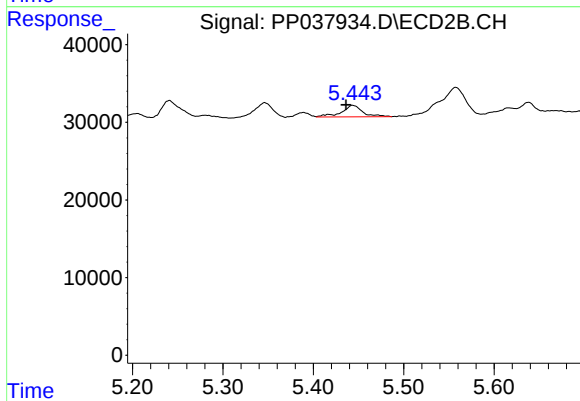
#18 AR-1242-3

R.T.: 5.346 min
Delta R.T.: 0.009 min
Response: 25198
Conc: 48.59 ng/ml



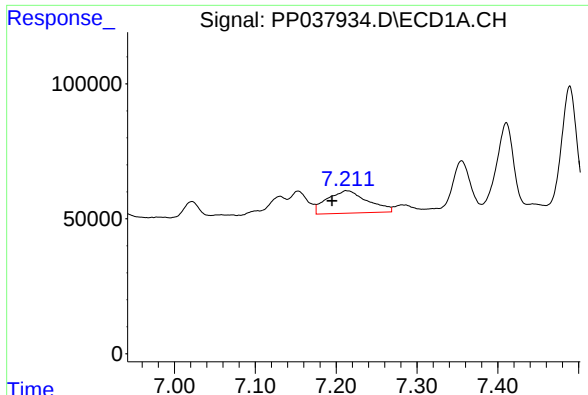
#19 AR-1242-4

R.T.: 0.000 min
Exp R.T. : 6.412 min
Response: 0
Conc: N.D.



#19 AR-1242-4

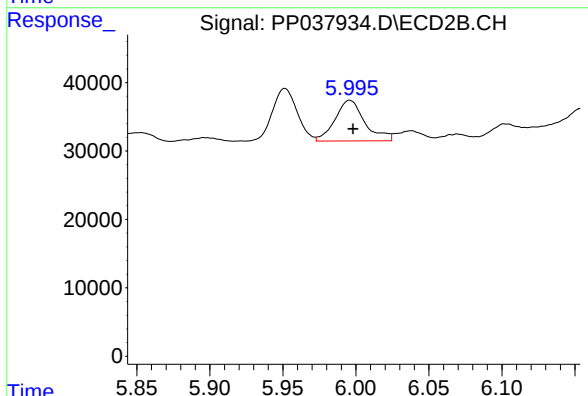
R.T.: 5.444 min
Delta R.T.: 0.007 min
Response: 24277
Conc: 48.29 ng/ml



#20 AR-1242-5

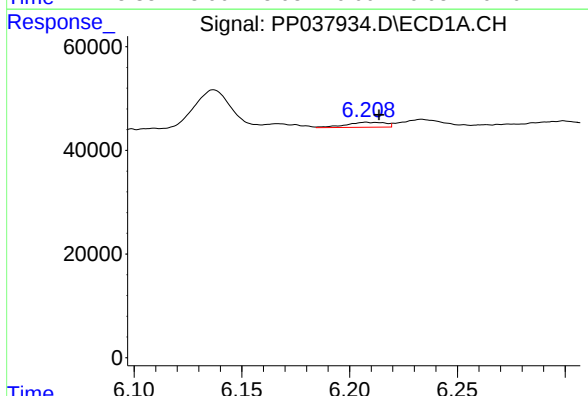
R.T.: 7.212 min
Delta R.T.: 0.018 min
Response: 289842
Conc: 320.44 ng/ml

Instrument :
ECD_P
ClientSampleId :



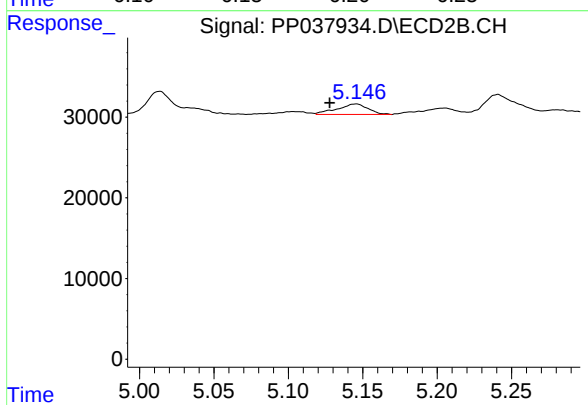
#20 AR-1242-5

R.T.: 5.996 min
Delta R.T.: -0.002 min
Response: 84428
Conc: 137.41 ng/ml



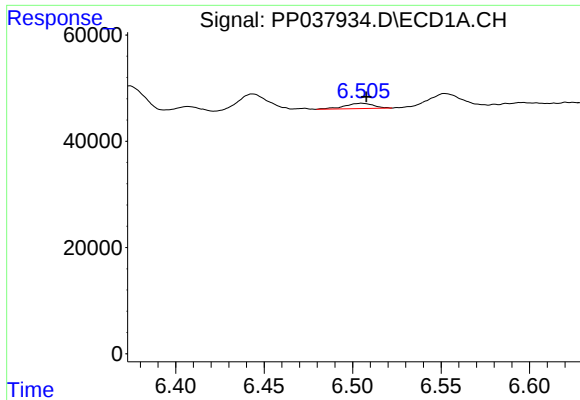
#21 AR-1248-1

R.T.: 6.208 min
Delta R.T.: -0.006 min
Response: 11968
Conc: 12.31 ng/ml



#21 AR-1248-1

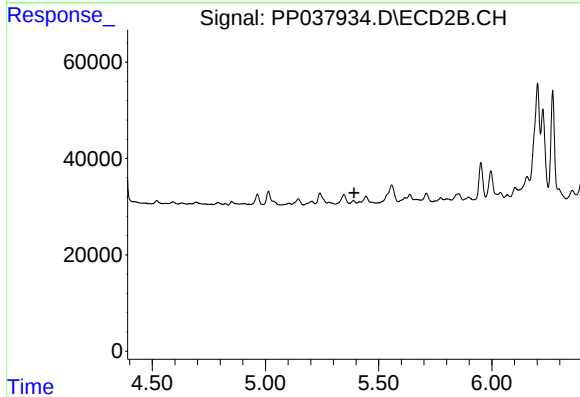
R.T.: 5.145 min
Delta R.T.: 0.018 min
Response: 18963
Conc: 35.67 ng/ml



#22 AR-1248-2

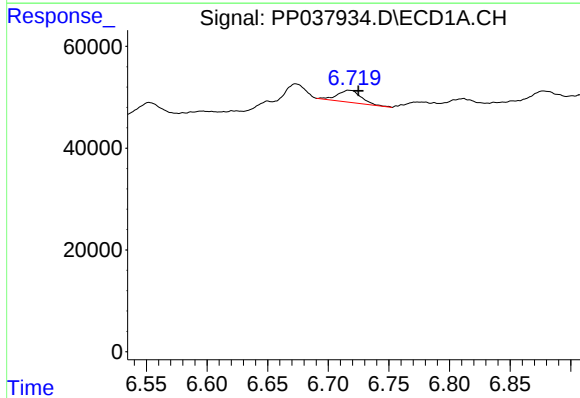
R.T.: 6.505 min
Delta R.T.: -0.003 min
Response: 11346
Conc: 8.96 ng/ml

Instrument :
ECD_P
ClientSampleId :



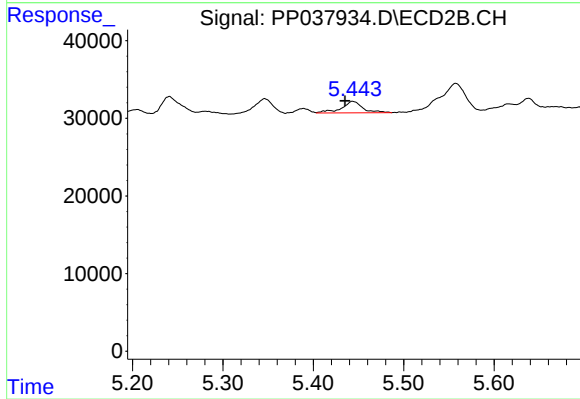
#22 AR-1248-2

R.T.: 0.000 min
Exp R.T. : 5.391 min
Response: 0
Conc: N.D.



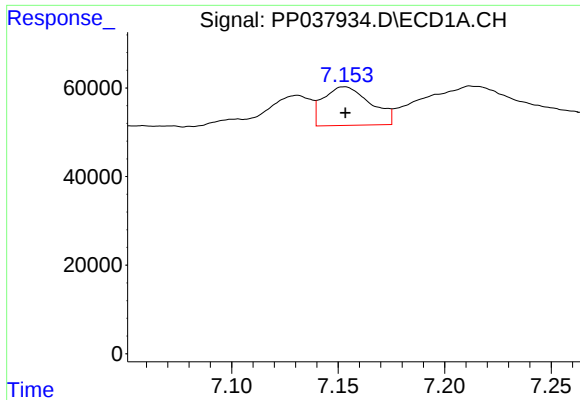
#23 AR-1248-3

R.T.: 6.717 min
Delta R.T.: -0.008 min
Response: 32461
Conc: 21.86 ng/ml



#23 AR-1248-3

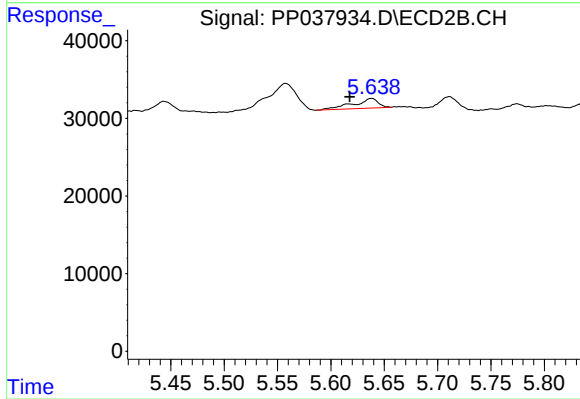
R.T.: 5.444 min
Delta R.T.: 0.008 min
Response: 24277
Conc: 30.01 ng/ml



#24 AR-1248-4

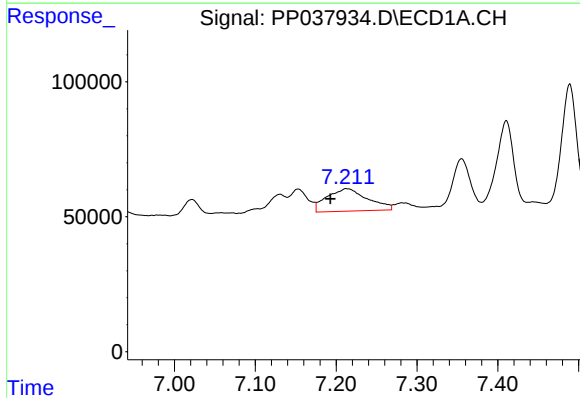
R.T.: 7.153 min
Delta R.T.: 0.000 min
Response: 134283
Conc: 82.38 ng/ml

Instrument :
ECD_P
ClientSampleId :



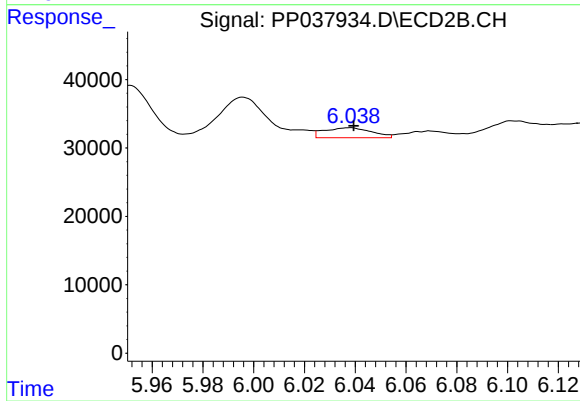
#24 AR-1248-4

R.T.: 5.638 min
Delta R.T.: 0.020 min
Response: 20350
Conc: 22.06 ng/ml



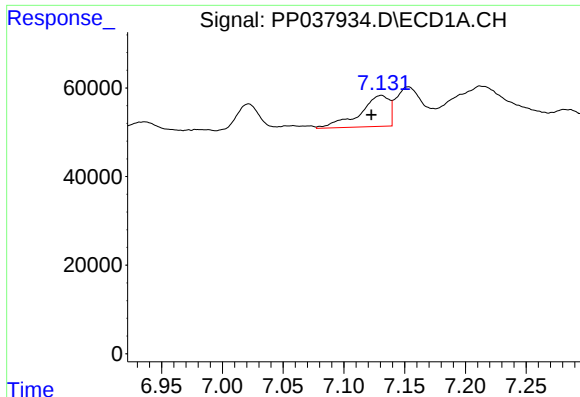
#25 AR-1248-5

R.T.: 7.212 min
Delta R.T.: 0.019 min
Response: 289842
Conc: 181.14 ng/ml



#25 AR-1248-5

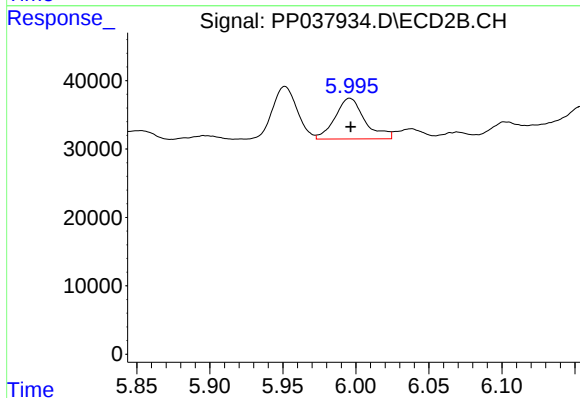
R.T.: 6.038 min
Delta R.T.: -0.002 min
Response: 18926
Conc: 20.37 ng/ml



#26 AR-1254-1

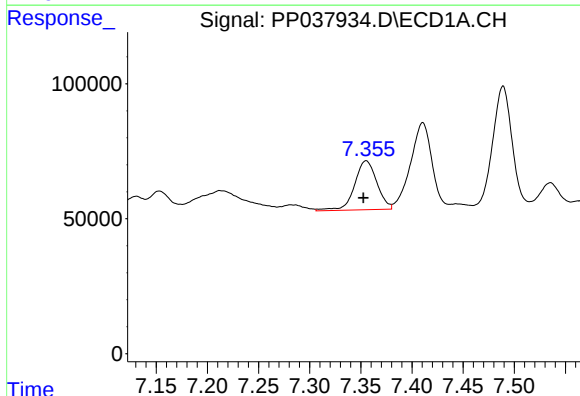
R.T.: 7.131 min
Delta R.T.: 0.008 min
Response: 117995
Conc: 75.25 ng/ml

Instrument :
ECD_P
ClientSampleId :



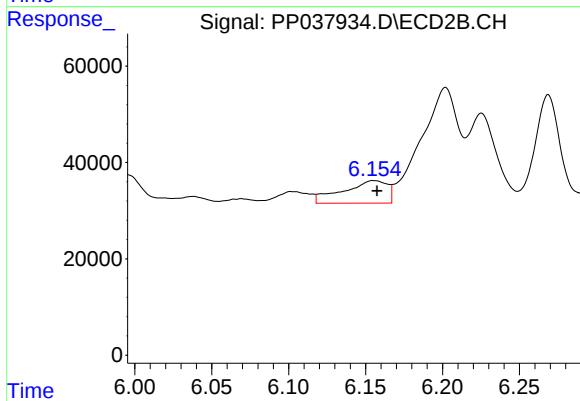
#26 AR-1254-1

R.T.: 5.996 min
Delta R.T.: 0.000 min
Response: 84428
Conc: 64.08 ng/ml



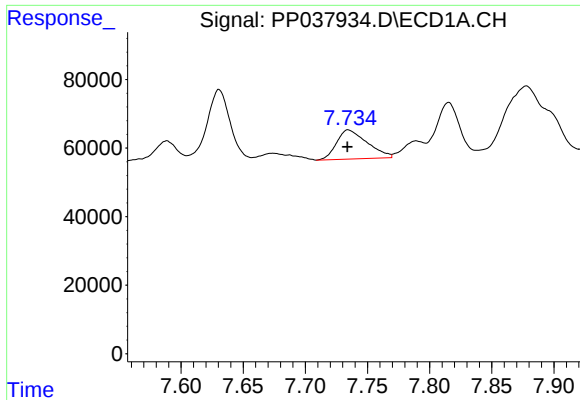
#27 AR-1254-2

R.T.: 7.355 min
Delta R.T.: 0.003 min
Response: 276326
Conc: 117.91 ng/ml



#27 AR-1254-2

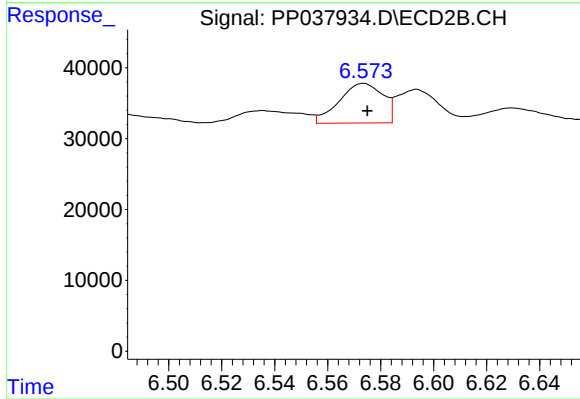
R.T.: 6.155 min
Delta R.T.: -0.002 min
Response: 94092
Conc: 82.52 ng/ml



#28 AR-1254-3

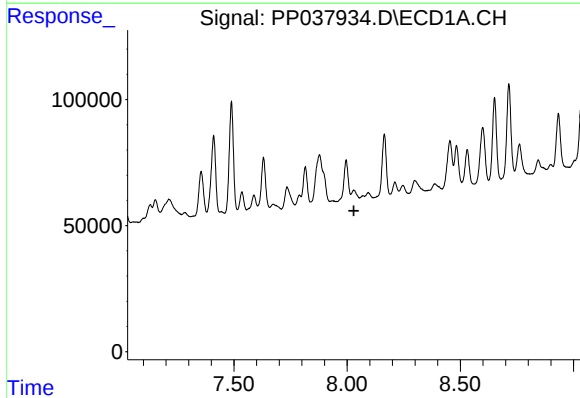
R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 145625
Conc: 59.18 ng/ml

Instrument :
ECD_P
ClientSampleId :



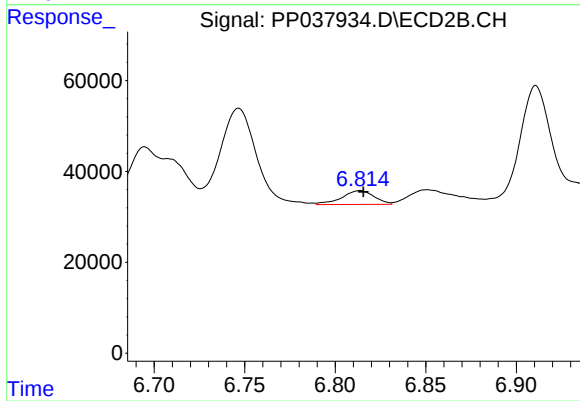
#28 AR-1254-3

R.T.: 6.574 min
Delta R.T.: -0.001 min
Response: 64167
Conc: 34.16 ng/ml



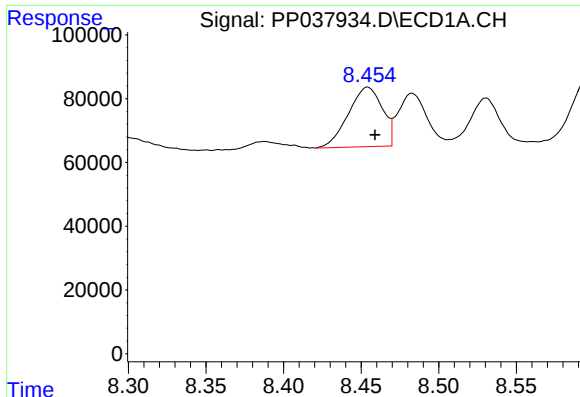
#29 AR-1254-4

R.T.: 8.029 min
Delta R.T.: -0.001 min
Response: -71149
Conc: N.D.



#29 AR-1254-4

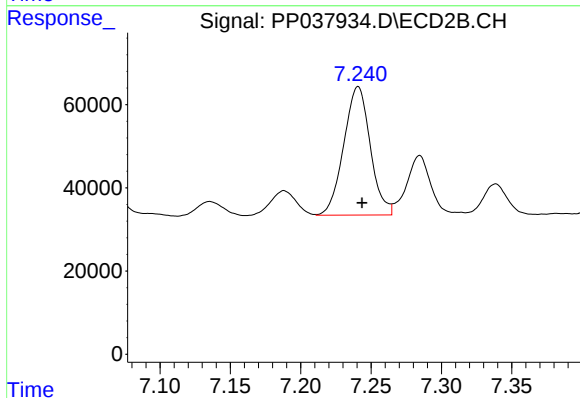
R.T.: 6.814 min
Delta R.T.: -0.002 min
Response: 37790
Conc: 31.73 ng/ml



#30 AR-1254-5

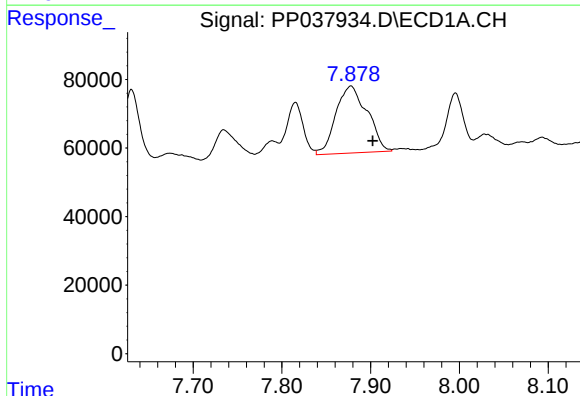
R.T.: 8.454 min
Delta R.T.: -0.005 min
Response: 284771
Conc: 164.37 ng/ml

Instrument :
ECD_P
ClientSampleId :



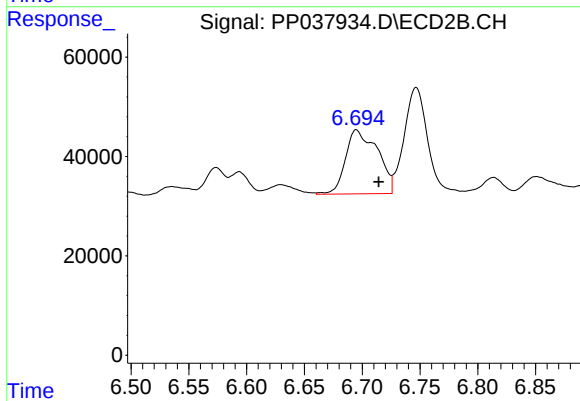
#30 AR-1254-5

R.T.: 7.241 min
Delta R.T.: -0.003 min
Response: 405976
Conc: 249.58 ng/ml



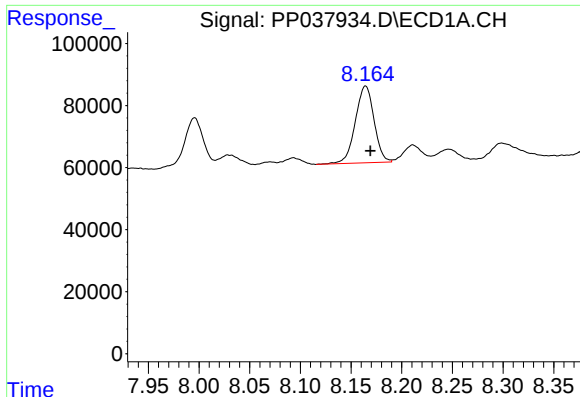
#31 AR-1260-1

R.T.: 7.878 min
Delta R.T.: -0.025 min
Response: 480392
Conc: 290.45 ng/ml



#31 AR-1260-1

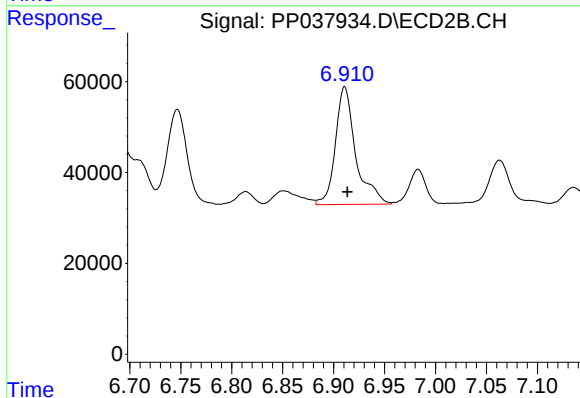
R.T.: 6.695 min
Delta R.T.: -0.019 min
Response: 248167
Conc: 210.89 ng/ml



#32 AR-1260-2

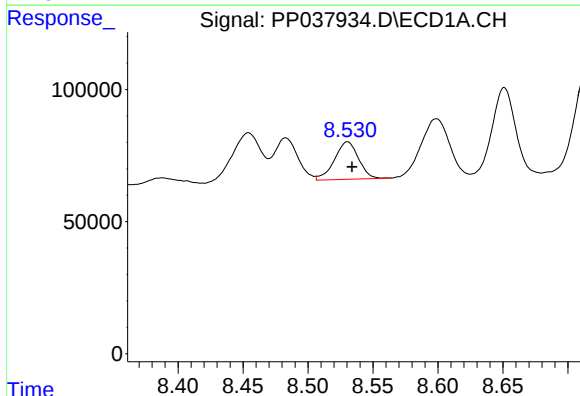
R.T.: 8.164 min
Delta R.T.: -0.005 min
Response: 318894
Conc: 161.12 ng/ml

Instrument :
ECD_P
ClientSampleId :



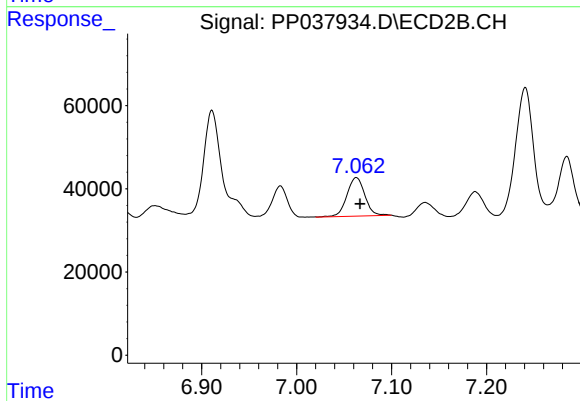
#32 AR-1260-2

R.T.: 6.911 min
Delta R.T.: -0.003 min
Response: 360625
Conc: 252.40 ng/ml



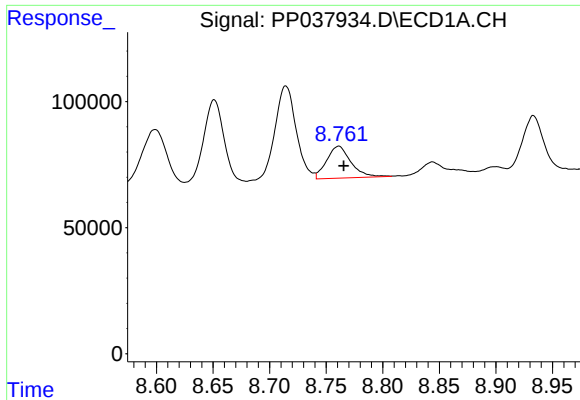
#33 AR-1260-3

R.T.: 8.530 min
Delta R.T.: -0.003 min
Response: 183022
Conc: 125.02 ng/ml



#33 AR-1260-3

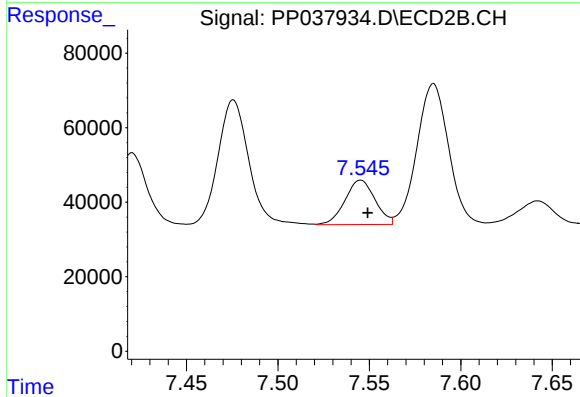
R.T.: 7.063 min
Delta R.T.: -0.004 min
Response: 122159
Conc: 86.48 ng/ml



#34 AR-1260-4

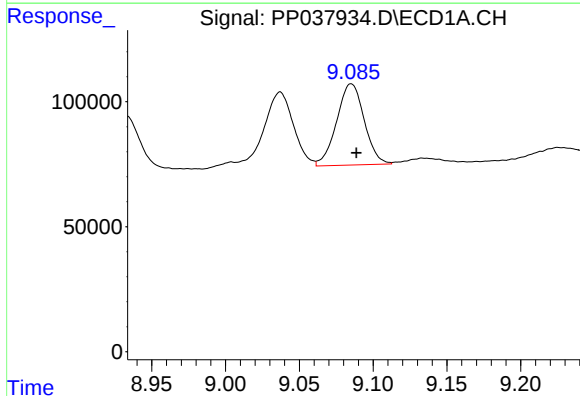
R.T.: 8.761 min
Delta R.T.: -0.004 min
Response: 189403
Conc: 109.27 ng/ml

Instrument :
ECD_P
ClientSampleId :



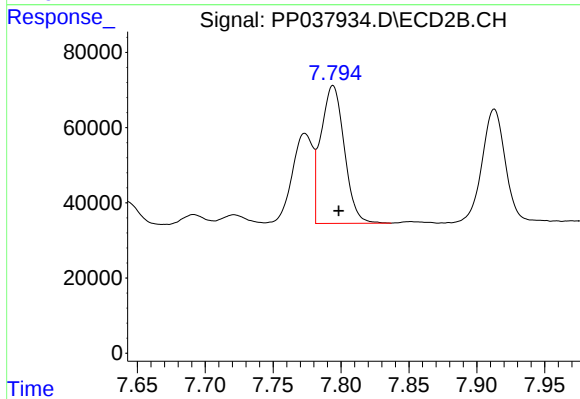
#34 AR-1260-4

R.T.: 7.545 min
Delta R.T.: -0.004 min
Response: 136759
Conc: 120.68 ng/ml



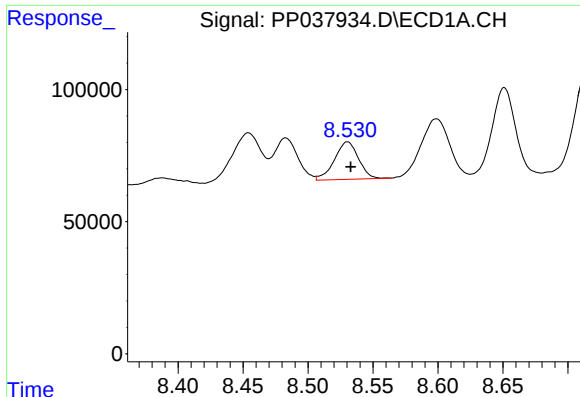
#35 AR-1260-5

R.T.: 9.085 min
Delta R.T.: -0.003 min
Response: 423072
Conc: 129.22 ng/ml



#35 AR-1260-5

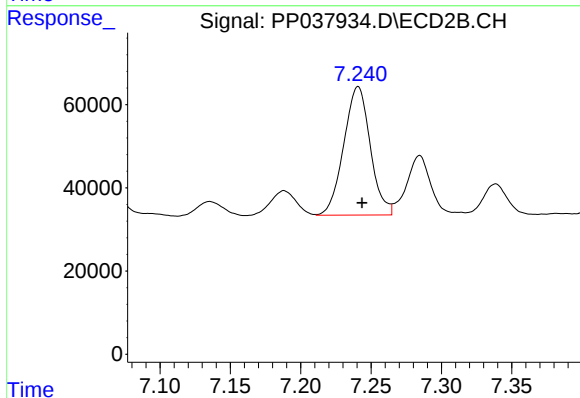
R.T.: 7.794 min
Delta R.T.: -0.004 min
Response: 439250
Conc: 158.33 ng/ml



#36 AR-1262-1

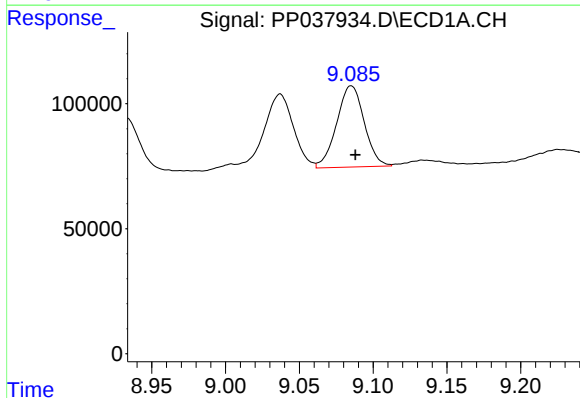
R.T.: 8.530 min
Delta R.T.: -0.002 min
Response: 183022
Conc: 90.94 ng/ml

Instrument :
ECD_P
ClientSampleId :



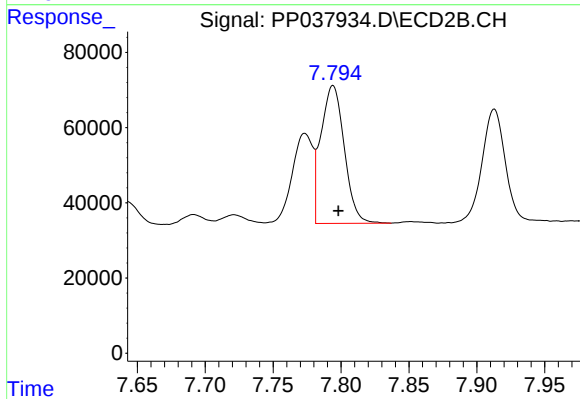
#36 AR-1262-1

R.T.: 7.241 min
Delta R.T.: -0.003 min
Response: 405976
Conc: 445.89 ng/ml



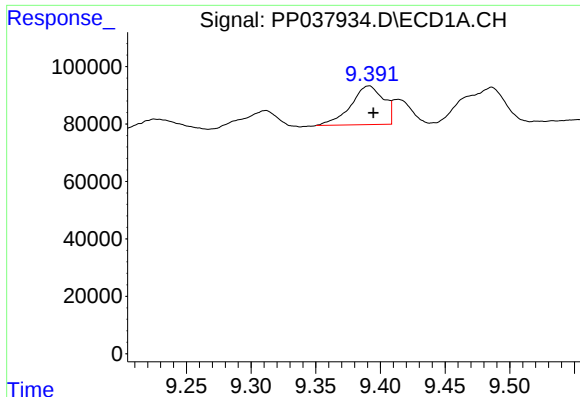
#37 AR-1262-2

R.T.: 9.085 min
Delta R.T.: -0.003 min
Response: 423072
Conc: 119.85 ng/ml



#37 AR-1262-2

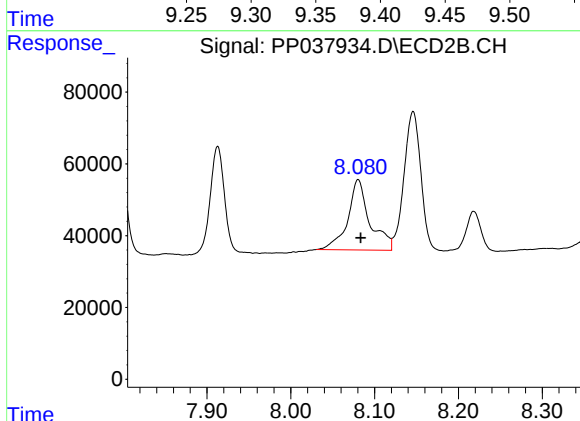
R.T.: 7.794 min
Delta R.T.: -0.004 min
Response: 439250
Conc: 139.66 ng/ml



#38 AR-1262-3

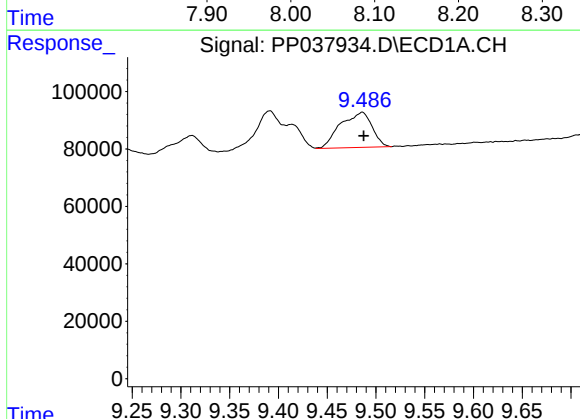
R.T.: 9.391 min
Delta R.T.: -0.004 min
Response: 238008
Conc: 150.71 ng/ml

Instrument :
ECD_P
ClientSampleId :



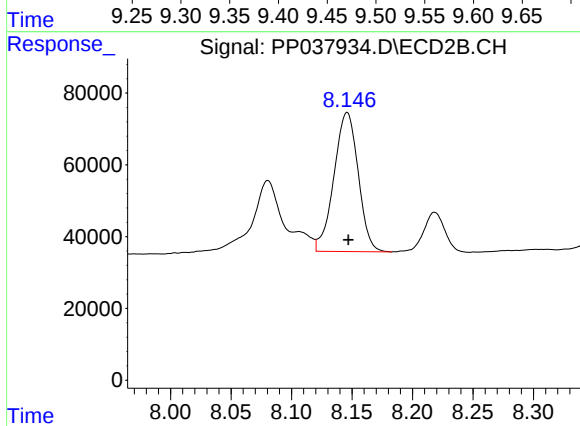
#38 AR-1262-3

R.T.: 8.080 min
Delta R.T.: -0.003 min
Response: 359101
Conc: 281.03 ng/ml



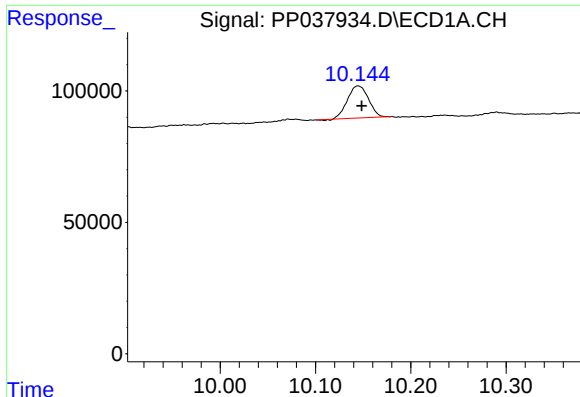
#39 AR-1262-4

R.T.: 9.486 min
Delta R.T.: -0.001 min
Response: 275873
Conc: 305.59 ng/ml



#39 AR-1262-4

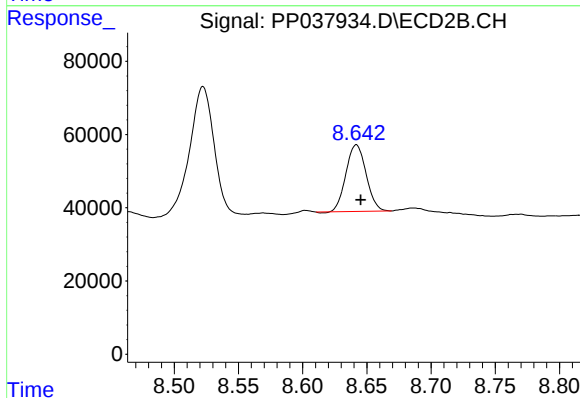
R.T.: 8.146 min
Delta R.T.: -0.001 min
Response: 541502
Conc: 221.14 ng/ml



#40 AR-1262-5

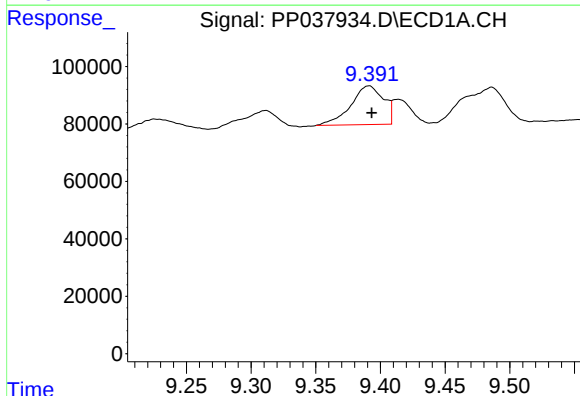
R.T.: 10.145 min
Delta R.T.: -0.004 min
Response: 187149
Conc: 161.48 ng/ml

Instrument :
ECD_P
ClientSampleId :



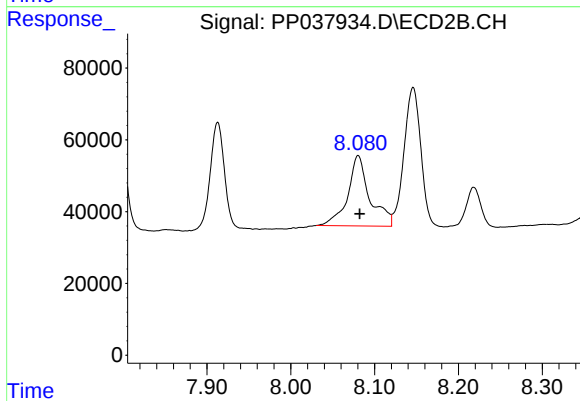
#40 AR-1262-5

R.T.: 8.642 min
Delta R.T.: -0.003 min
Response: 198289
Conc: 168.48 ng/ml



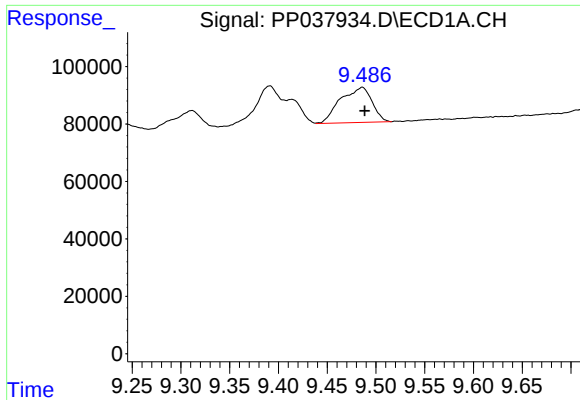
#41 AR-1268-1

R.T.: 9.391 min
Delta R.T.: -0.002 min
Response: 238008
Conc: 60.93 ng/ml



#41 AR-1268-1

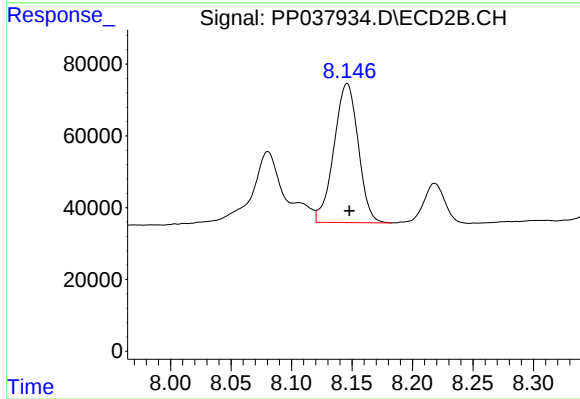
R.T.: 8.080 min
Delta R.T.: -0.002 min
Response: 359101
Conc: 100.79 ng/ml



#42 AR-1268-2

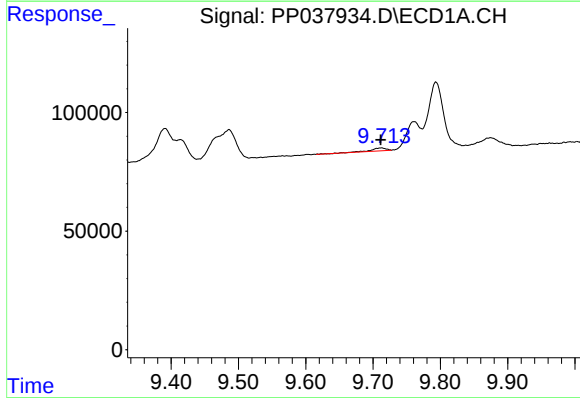
R.T.: 9.486 min
Delta R.T.: -0.003 min
Response: 275873
Conc: 77.78 ng/ml

Instrument :
ECD_P
ClientSampleId :



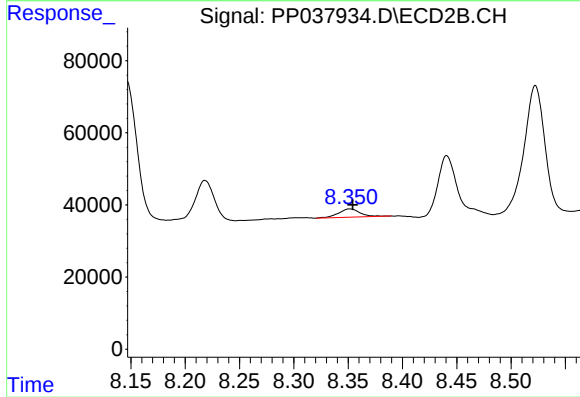
#42 AR-1268-2

R.T.: 8.146 min
Delta R.T.: -0.002 min
Response: 541502
Conc: 160.68 ng/ml



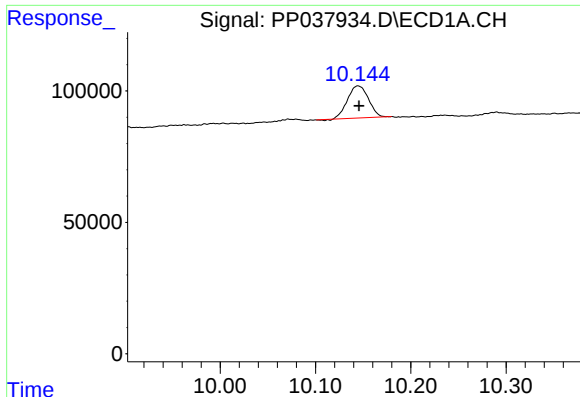
#43 AR-1268-3

R.T.: 9.712 min
Delta R.T.: 0.001 min
Response: 18168
Conc: 6.09 ng/ml



#43 AR-1268-3

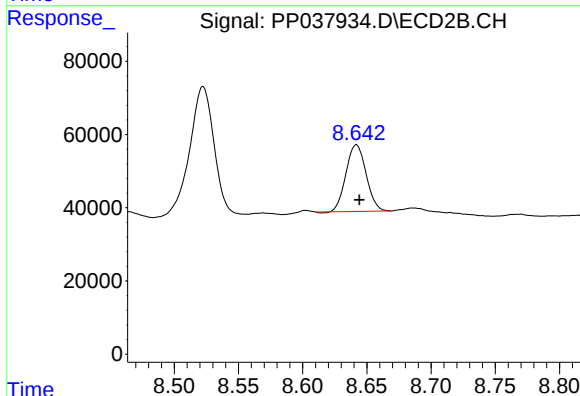
R.T.: 8.352 min
Delta R.T.: -0.003 min
Response: 31645
Conc: 11.44 ng/ml



#44 AR-1268-4

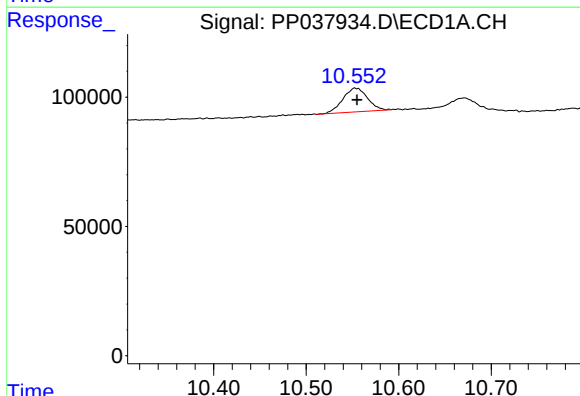
R.T.: 10.145 min
Delta R.T.: 0.000 min
Response: 187149
Conc: 149.19 ng/ml

Instrument :
ECD_P
ClientSampleId :



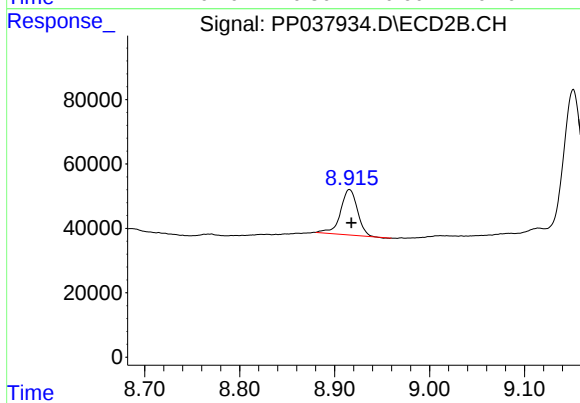
#44 AR-1268-4

R.T.: 8.642 min
Delta R.T.: -0.002 min
Response: 198289
Conc: 167.09 ng/ml



#45 AR-1268-5

R.T.: 10.553 min
Delta R.T.: -0.002 min
Response: 168770
Conc: 17.66 ng/ml



#45 AR-1268-5

R.T.: 8.916 min
Delta R.T.: -0.002 min
Response: 173435
Conc: 19.29 ng/ml