

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ071222\
 Data File : PQ058536.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 Jul 2022 19:44
 Operator : YP\AJ
 Sample : AR1232ICC200
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_Q
 ClientSampleId :

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jul 18 06:06:08 2022
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ071222CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu Jul 14 12:27:52 2022
 Response via : Initial Calibration
 Integrator: ChemStation

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

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

System Monitoring Compounds							
1)	SA Tetrachlo...	4.690	4.050	101.8E6	73735360	14.472	13.190
2)	SA Decachlor...	10.604	9.175	138.3E6	78611781	24.714	23.741
Target Compounds							
3)	L1 AR-1016-1	5.873	5.149	18518519	16785444	122.493	107.528
4)	L1 AR-1016-2	5.895	5.169	33094516	26535705	127.130	118.282
5)	L1 AR-1016-3	5.957	5.349	22652901	11715635	140.286	106.031
6)	L1 AR-1016-4	6.059	5.387	18650984	9295902	138.525	97.677 #
7)	L1 AR-1016-5	6.351	5.605	14660634	12240764	124.963	104.769
8)	L2 AR-1221-1	4.902	4.264	12987268	9046899	165.936	152.399
9)	L2 AR-1221-2	4.990	4.352	10734187	7442933	195.734	181.674
10)	L2 AR-1221-3	5.070	4.430	35295168	28933763	201.743	200.348
11)	L3 AR-1232-1	5.070	4.430	35295168	28933763	222.927	219.444
12)	L3 AR-1232-2	5.603	5.169	15279414	26535705	199.276	226.478
13)	L3 AR-1232-3	5.895	5.349	33094516	11715635	235.466	213.541
14)	L3 AR-1232-4	6.059	5.430	18650984	11354410	263.113	215.869
15)	L3 AR-1232-5	6.145	5.605	12518091	12240764	276.714	214.778
16)	L4 AR-1242-1	5.873	5.149	18518519	16785444	134.326	121.082
17)	L4 AR-1242-2	5.895	5.169	33094516	26535705	137.673	132.698
18)	L4 AR-1242-3	5.957	5.349	22652901	11715635	142.621	118.598
19)	L4 AR-1242-4	6.059	5.430	18650984	11354410	141.792	111.715
20)	L4 AR-1242-5	6.795	5.957	14383402	14095659	126.201	120.759
21)	L5 AR-1248-1	5.873	5.149	18518519	16785444	157.567	145.012
22)	L5 AR-1248-2	6.145	5.387	12518091	9295902	74.355	55.746 #
23)	L5 AR-1248-3	6.351	5.430	14660634	11354410	72.526	65.722
24)	L5 AR-1248-4	6.757	5.605	12752162	12240764	64.357	61.718
25)	L5 AR-1248-5	6.795	5.999	14383402	12301887	68.024	69.316
26)	L6 AR-1254-1	6.729	5.957	10409120	14095659	49.990	46.620
27)	L6 AR-1254-2	6.955	6.103	11133617	5036920	35.770	19.377 #
28)	L6 AR-1254-3	7.318	6.512	4011113	4994630	11.189	12.470
29)	L6 AR-1254-4	7.604	6.739	3244715	2676378	14.950	10.450 #
30)	L6 AR-1254-5	8.020	7.160	621673	1026071	2.388	3.364 #
31)	L7 AR-1260-1	7.475	6.632	293967	1902206	1.669	9.503 #
32)	L7 AR-1260-2	7.735	6.824	661136	1261609	3.157	5.421 #
33)	L7 AR-1260-3	8.020	6.990	621673	1000941	2.351	4.679 #
34)	L7 AR-1260-4	8.331	7.457	447976	313984	2.202	1.777
35)	L7 AR-1260-5	8.665	7.694	611615	385594	1.388	0.969 #
36)	L8 AR-1262-1	8.097	7.160	196355	1026071	0.602	6.363 #
37)	L8 AR-1262-2	8.665	7.694	611615	385594	0.956	0.690 #
38)	L8 AR-1262-3	8.978	8.048f	864289	318594	2.472	1.463 #
39)	L8 AR-1262-4	9.089	8.048	413102	318594	1.321	0.798 #
40)	L8 AR-1262-5	9.819	8.522f	145930	96222	0.576	0.607
41)	L9 AR-1268-1	8.978	8.048f	864289	318594	0.833	0.410 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Data\PQ071222\
Data File : PQ058536.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Jul 2022 19:44
Operator : YP\AJ
Sample : AR1232ICC200
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_Q
ClientSampleId :

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 18 06:06:08 2022
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_Q\Method\PQ071222CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu Jul 14 12:27:52 2022
Response via : Initial Calibration
Integrator: ChemStation

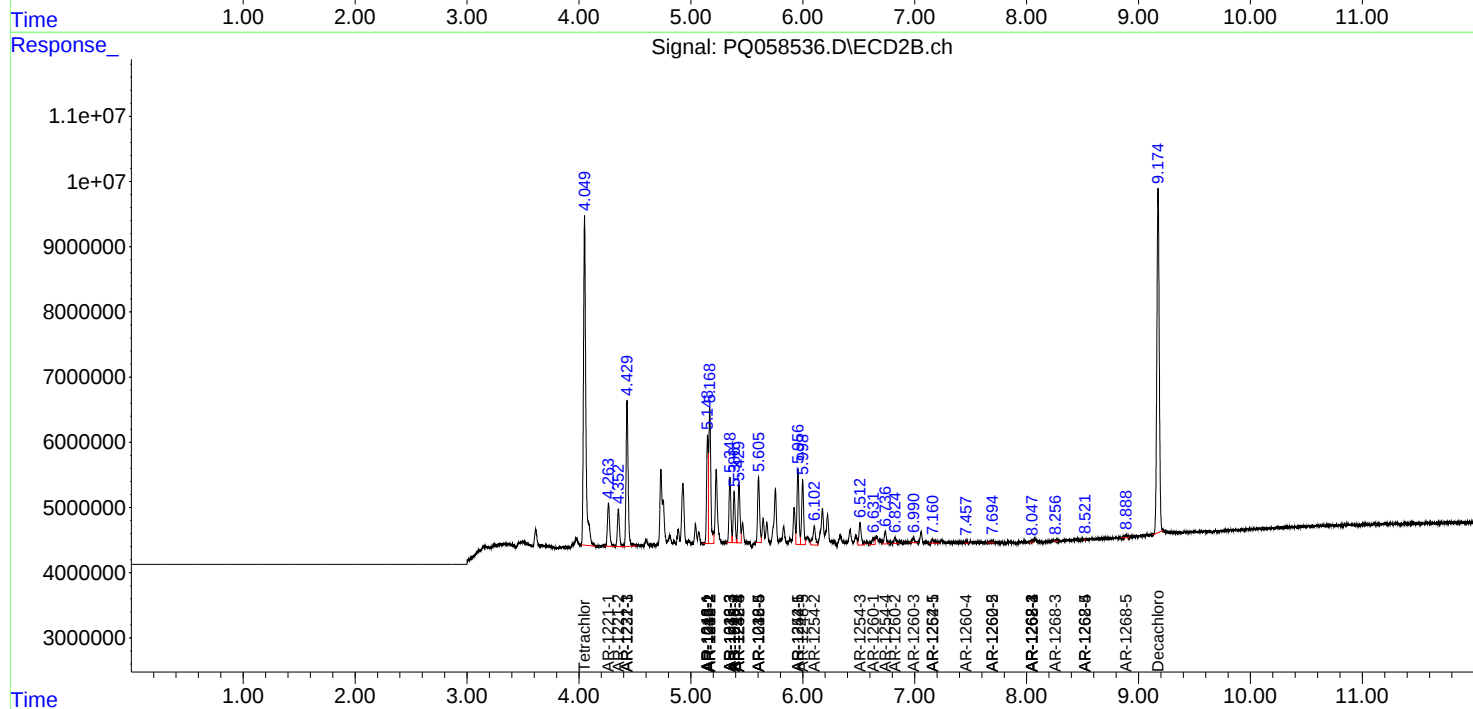
Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

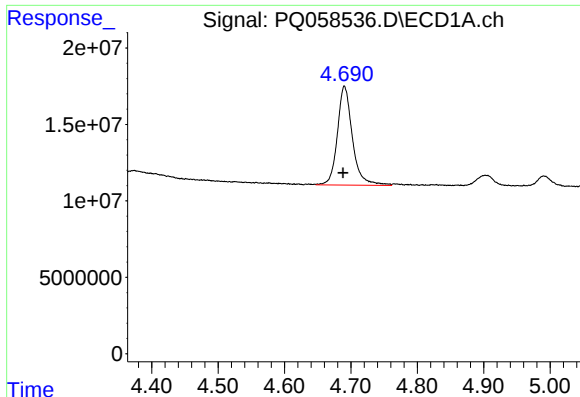
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
42)	L9 AR-1268-2	9.089	8.048	413102	318594	0.380	0.451
43)	L9 AR-1268-3	9.345	8.256	600438	309107	0.608	0.504
44)	L9 AR-1268-4	9.819	8.522f	145930	96222	0.440	0.452
45)	L9 AR-1268-5	10.248	8.890	1151725	532916	0.382	0.290

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

Instrument :
ECD_Q
ClientSampleId :

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

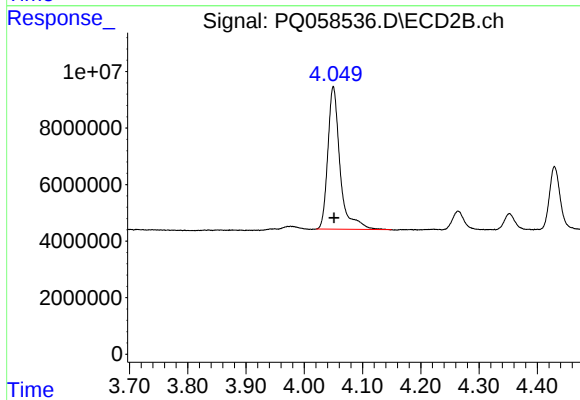




#1 Tetrachloro-m-xylene

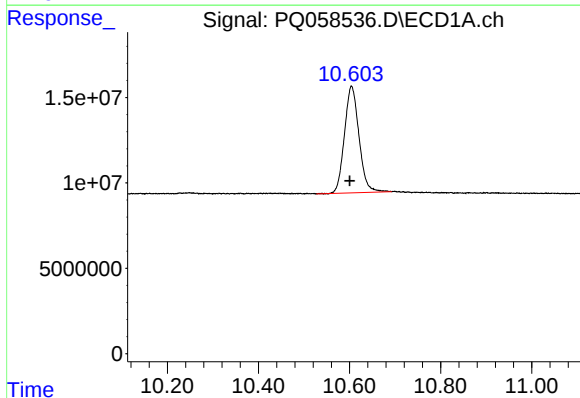
R.T.: 4.690 min
Delta R.T.: 0.002 min
Response: 101821818
Conc: 14.47 ng/ml

Instrument :
ECD_Q
ClientSampleId :



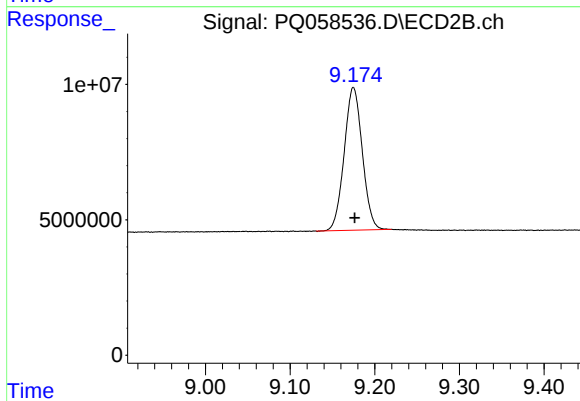
#1 Tetrachloro-m-xylene

R.T.: 4.050 min
Delta R.T.: -0.001 min
Response: 73735360
Conc: 13.19 ng/ml



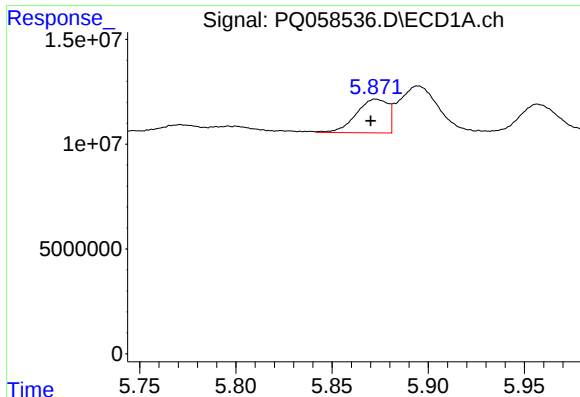
#2 Decachlorobiphenyl

R.T.: 10.604 min
Delta R.T.: 0.004 min
Response: 138257161
Conc: 24.71 ng/ml



#2 Decachlorobiphenyl

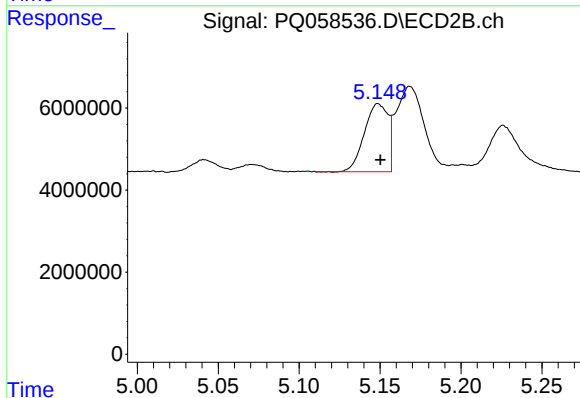
R.T.: 9.175 min
Delta R.T.: -0.002 min
Response: 78611781
Conc: 23.74 ng/ml



#3 AR-1016-1

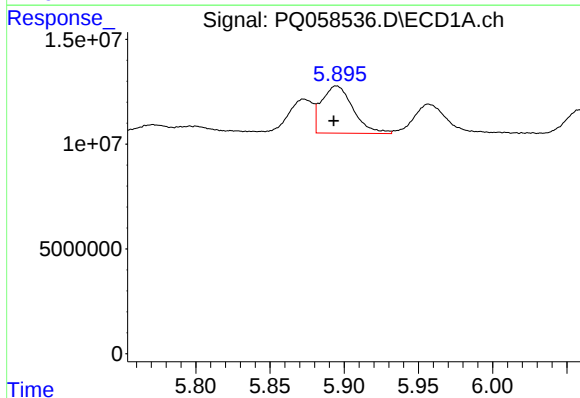
R.T.: 5.873 min
Delta R.T.: 0.002 min
Response: 18518519
Conc: 122.49 ng/ml

Instrument :
ECD_Q
ClientSampleId :



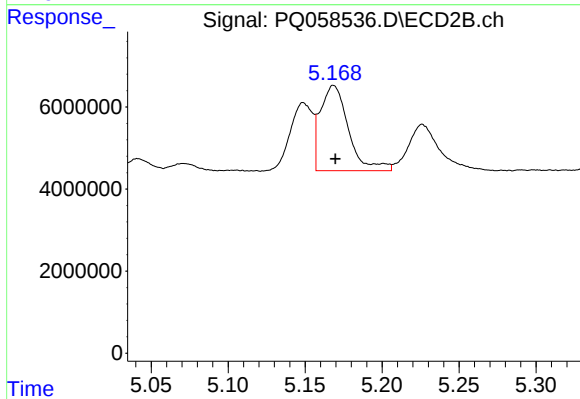
#3 AR-1016-1

R.T.: 5.149 min
Delta R.T.: -0.001 min
Response: 16785444
Conc: 107.53 ng/ml



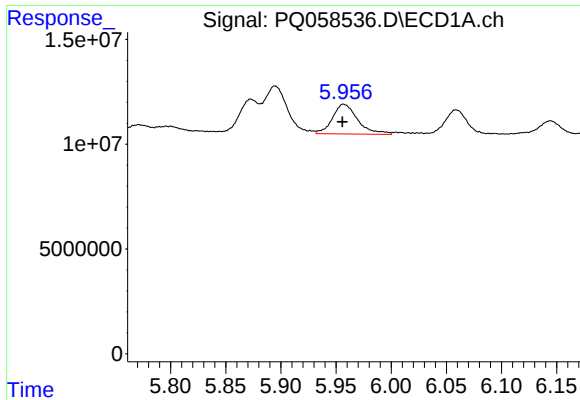
#4 AR-1016-2

R.T.: 5.895 min
Delta R.T.: 0.002 min
Response: 33094516
Conc: 127.13 ng/ml



#4 AR-1016-2

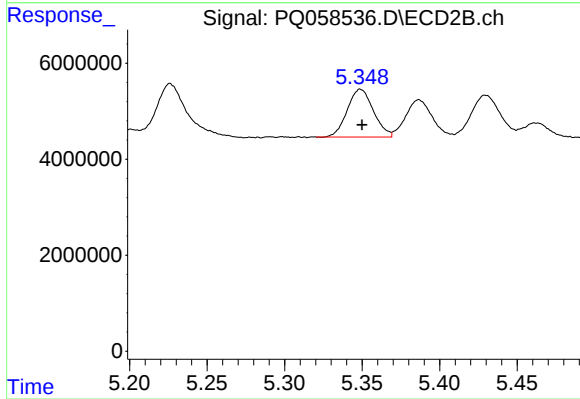
R.T.: 5.169 min
Delta R.T.: -0.001 min
Response: 26535705
Conc: 118.28 ng/ml



#5 AR-1016-3

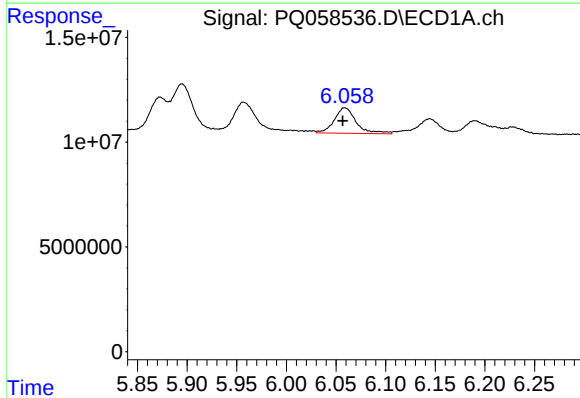
R.T.: 5.957 min
Delta R.T.: 0.000 min
Response: 22652901
Conc: 140.29 ng/ml

Instrument :
ECD_Q
ClientSampleId :



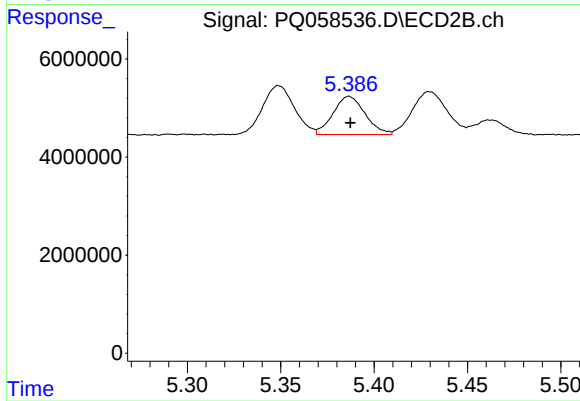
#5 AR-1016-3

R.T.: 5.349 min
Delta R.T.: 0.000 min
Response: 11715635
Conc: 106.03 ng/ml



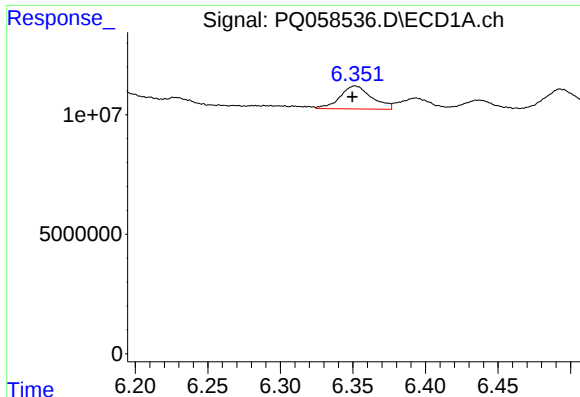
#6 AR-1016-4

R.T.: 6.059 min
Delta R.T.: 0.002 min
Response: 18650984
Conc: 138.53 ng/ml



#6 AR-1016-4

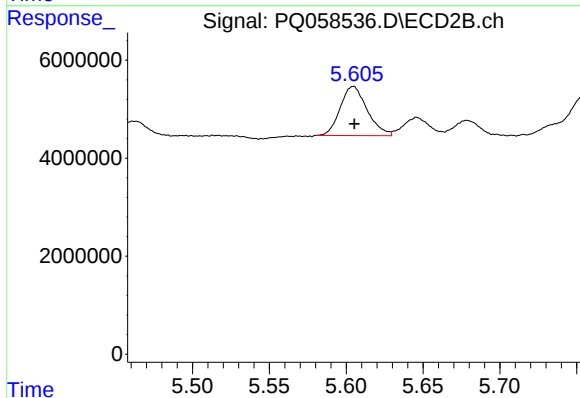
R.T.: 5.387 min
Delta R.T.: 0.000 min
Response: 9295902
Conc: 97.68 ng/ml



#7 AR-1016-5

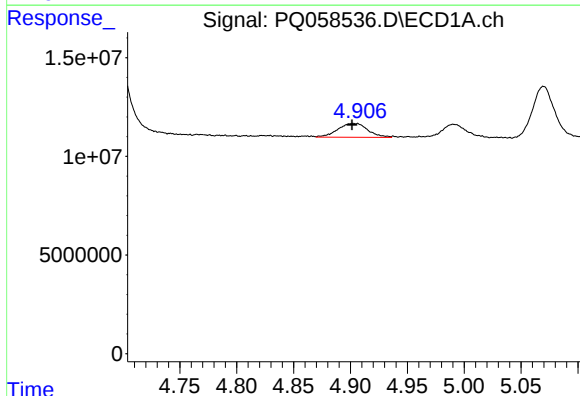
R.T.: 6.351 min
Delta R.T.: 0.002 min
Response: 14660634
Conc: 124.96 ng/ml

Instrument :
ECD_Q
ClientSampleId :



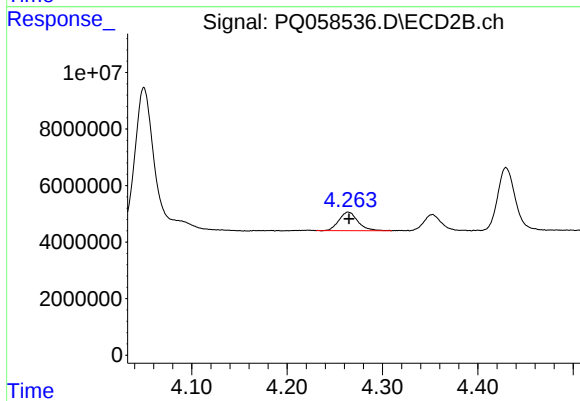
#7 AR-1016-5

R.T.: 5.605 min
Delta R.T.: 0.000 min
Response: 12240764
Conc: 104.77 ng/ml



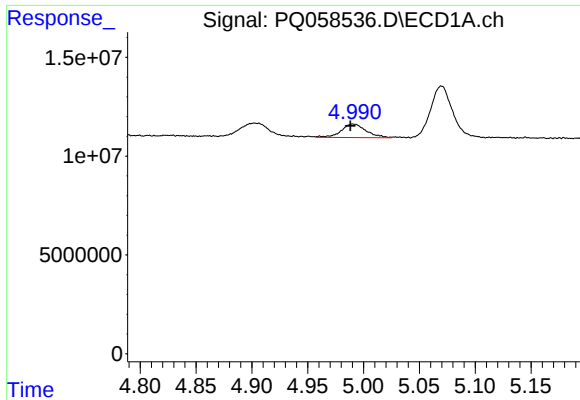
#8 AR-1221-1

R.T.: 4.902 min
Delta R.T.: 0.001 min
Response: 12987268
Conc: 165.94 ng/ml



#8 AR-1221-1

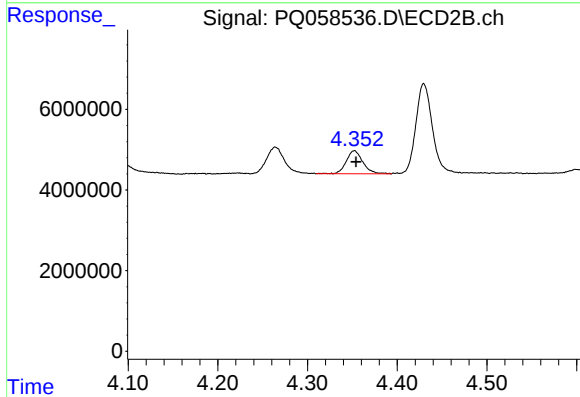
R.T.: 4.264 min
Delta R.T.: -0.001 min
Response: 9046899
Conc: 152.40 ng/ml



#9 AR-1221-2

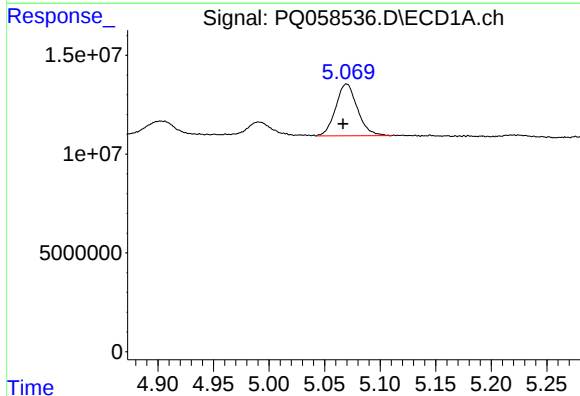
R.T.: 4.990 min
Delta R.T.: 0.002 min
Response: 10734187
Conc: 195.73 ng/ml

Instrument :
ECD_Q
ClientSampleId :



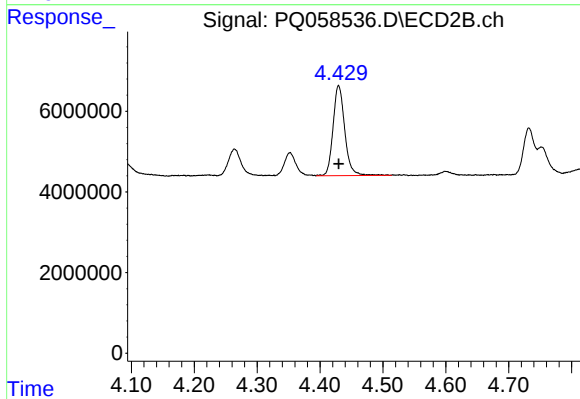
#9 AR-1221-2

R.T.: 4.352 min
Delta R.T.: -0.002 min
Response: 7442933
Conc: 181.67 ng/ml



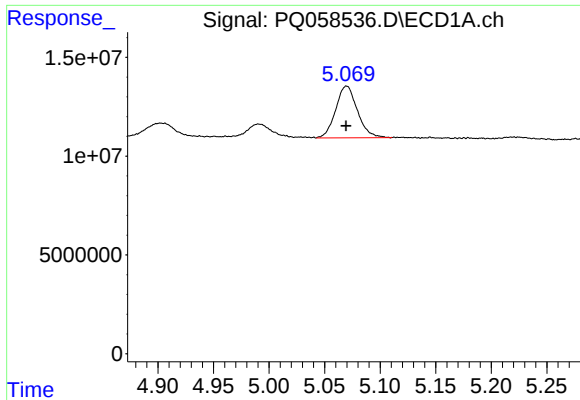
#10 AR-1221-3

R.T.: 5.070 min
Delta R.T.: 0.003 min
Response: 35295168
Conc: 201.74 ng/ml



#10 AR-1221-3

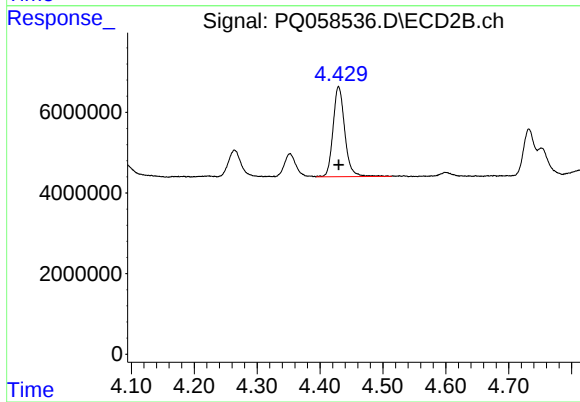
R.T.: 4.430 min
Delta R.T.: 0.000 min
Response: 28933763
Conc: 200.35 ng/ml



#11 AR-1232-1

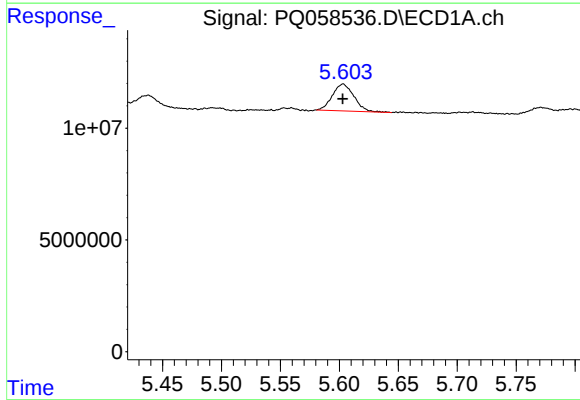
R.T.: 5.070 min
Delta R.T.: 0.000 min
Response: 35295168
Conc: 222.93 ng/ml

Instrument :
ECD_Q
ClientSampleId :



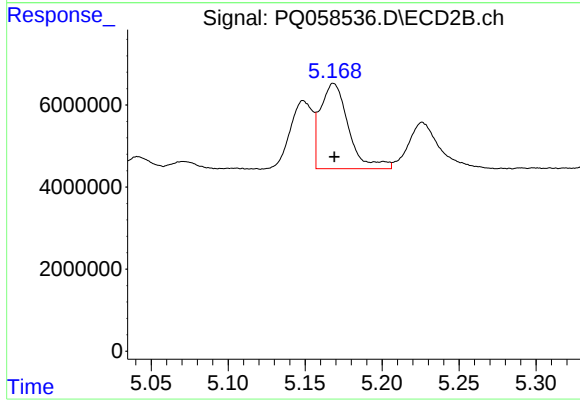
#11 AR-1232-1

R.T.: 4.430 min
Delta R.T.: 0.000 min
Response: 28933763
Conc: 219.44 ng/ml



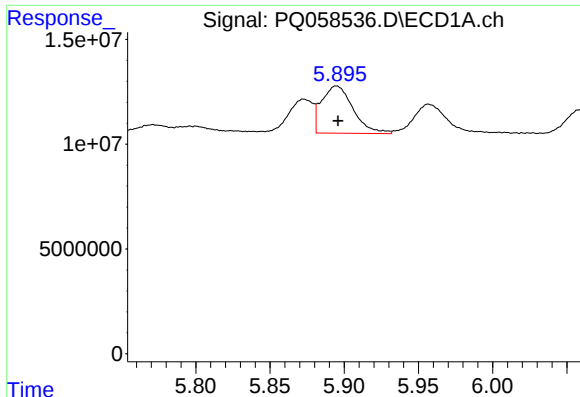
#12 AR-1232-2

R.T.: 5.603 min
Delta R.T.: 0.000 min
Response: 15279414
Conc: 199.28 ng/ml



#12 AR-1232-2

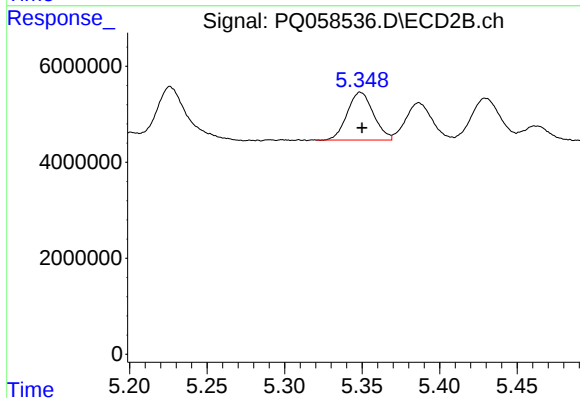
R.T.: 5.169 min
Delta R.T.: 0.000 min
Response: 26535705
Conc: 226.48 ng/ml



#13 AR-1232-3

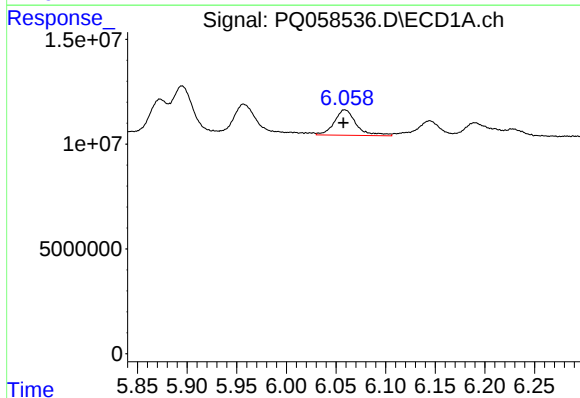
R.T.: 5.895 min
Delta R.T.: -0.001 min
Response: 33094516
Conc: 235.47 ng/ml

Instrument :
ECD_Q
ClientSampleId :



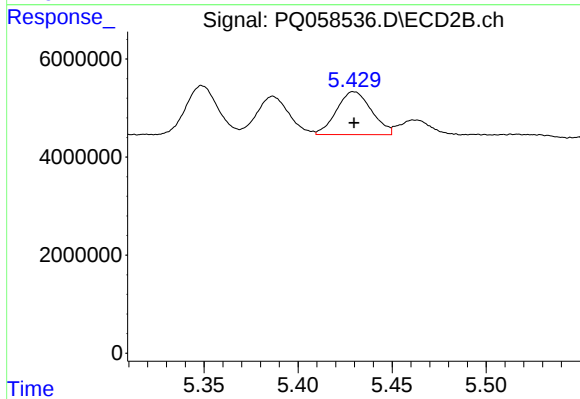
#13 AR-1232-3

R.T.: 5.349 min
Delta R.T.: -0.001 min
Response: 11715635
Conc: 213.54 ng/ml



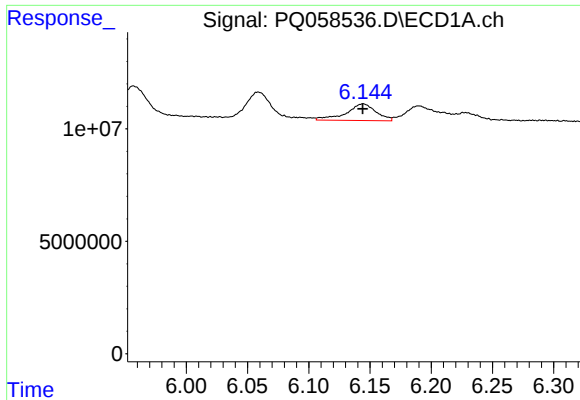
#14 AR-1232-4

R.T.: 6.059 min
Delta R.T.: 0.001 min
Response: 18650984
Conc: 263.11 ng/ml



#14 AR-1232-4

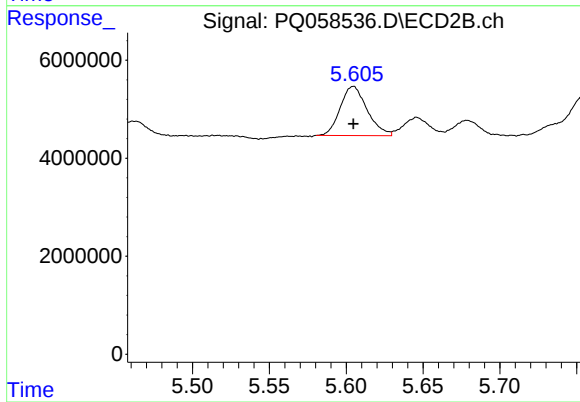
R.T.: 5.430 min
Delta R.T.: 0.000 min
Response: 11354410
Conc: 215.87 ng/ml



#15 AR-1232-5

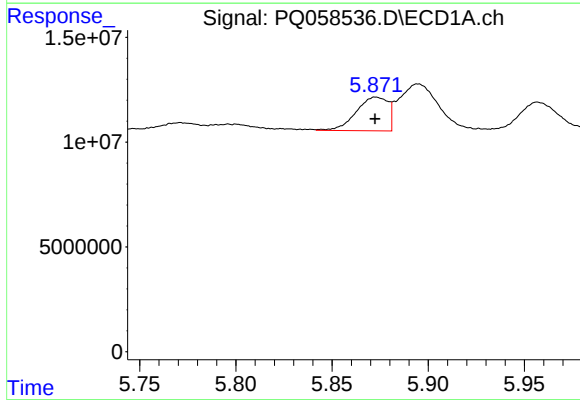
R.T.: 6.145 min
Delta R.T.: 0.000 min
Response: 12518091
Conc: 276.71 ng/ml

Instrument :
ECD_Q
ClientSampleId :



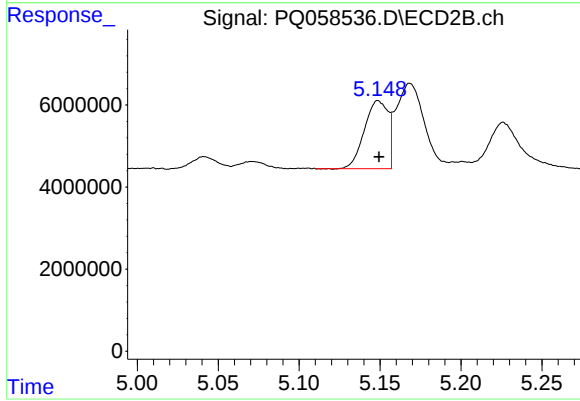
#15 AR-1232-5

R.T.: 5.605 min
Delta R.T.: 0.000 min
Response: 12240764
Conc: 214.78 ng/ml



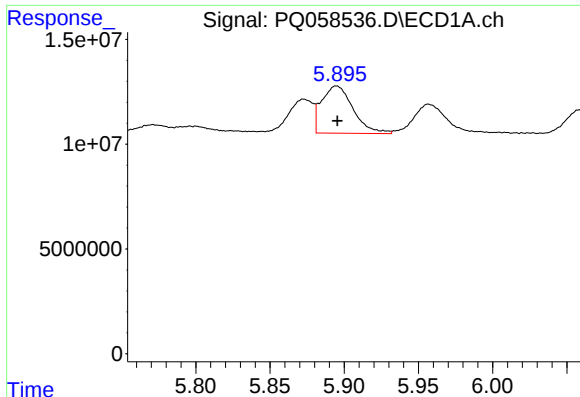
#16 AR-1242-1

R.T.: 5.873 min
Delta R.T.: 0.000 min
Response: 18518519
Conc: 134.33 ng/ml



#16 AR-1242-1

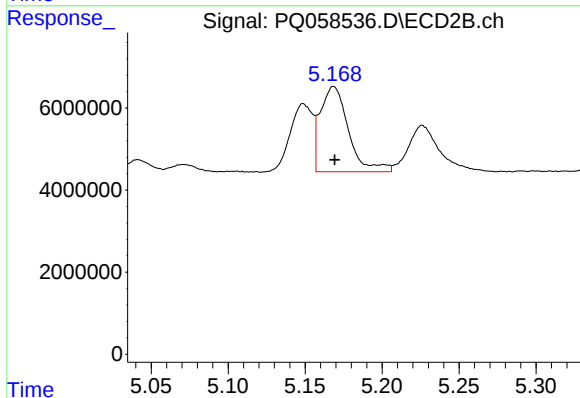
R.T.: 5.149 min
Delta R.T.: 0.000 min
Response: 16785444
Conc: 121.08 ng/ml



#17 AR-1242-2

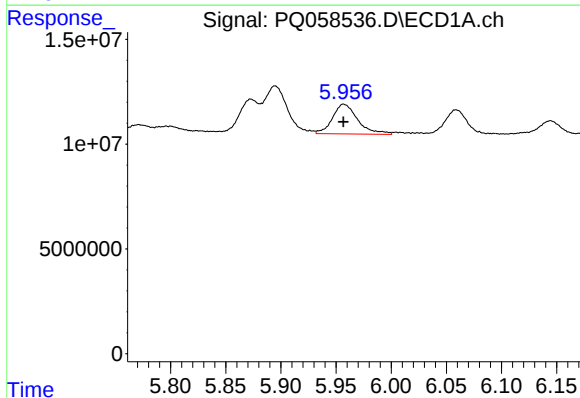
R.T.: 5.895 min
Delta R.T.: 0.000 min
Response: 33094516
Conc: 137.67 ng/ml

Instrument :
ECD_Q
ClientSampleId :



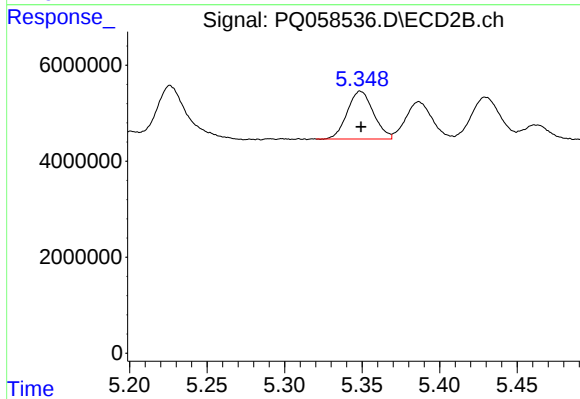
#17 AR-1242-2

R.T.: 5.169 min
Delta R.T.: 0.000 min
Response: 26535705
Conc: 132.70 ng/ml



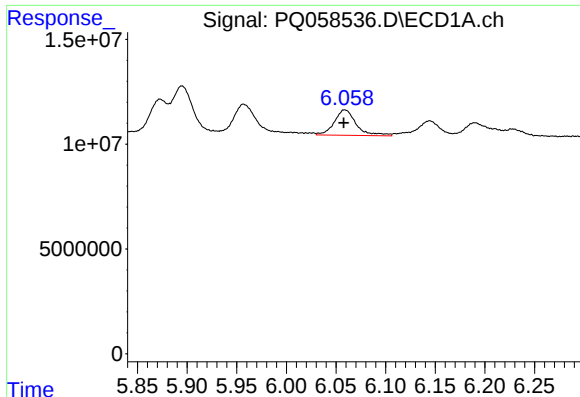
#18 AR-1242-3

R.T.: 5.957 min
Delta R.T.: 0.000 min
Response: 22652901
Conc: 142.62 ng/ml



#18 AR-1242-3

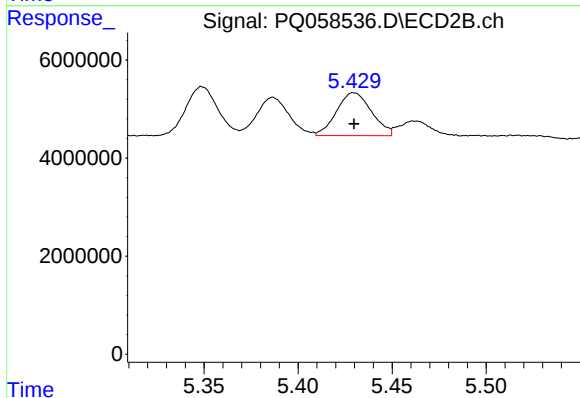
R.T.: 5.349 min
Delta R.T.: 0.000 min
Response: 11715635
Conc: 118.60 ng/ml



#19 AR-1242-4

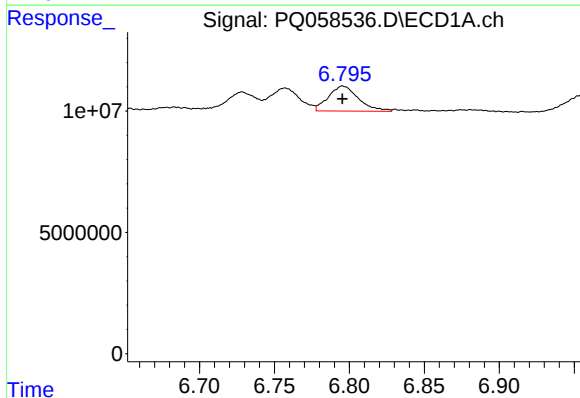
R.T.: 6.059 min
Delta R.T.: 0.000 min
Response: 18650984
Conc: 141.79 ng/ml

Instrument :
ECD_Q
ClientSampleId :



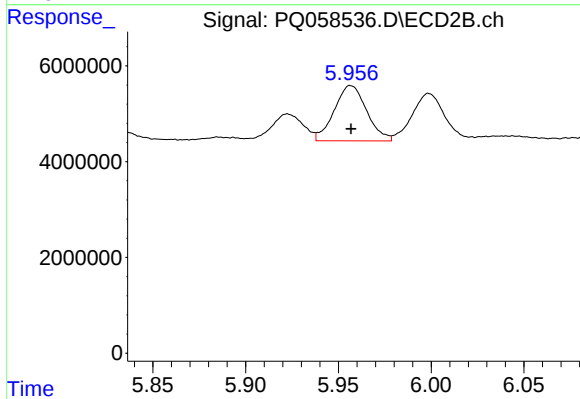
#19 AR-1242-4

R.T.: 5.430 min
Delta R.T.: 0.000 min
Response: 11354410
Conc: 111.71 ng/ml



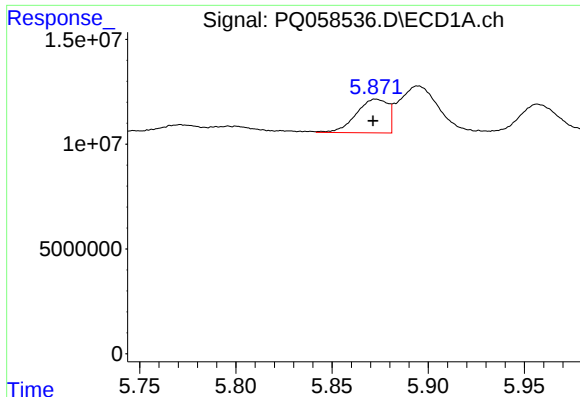
#20 AR-1242-5

R.T.: 6.795 min
Delta R.T.: 0.000 min
Response: 14383402
Conc: 126.20 ng/ml



#20 AR-1242-5

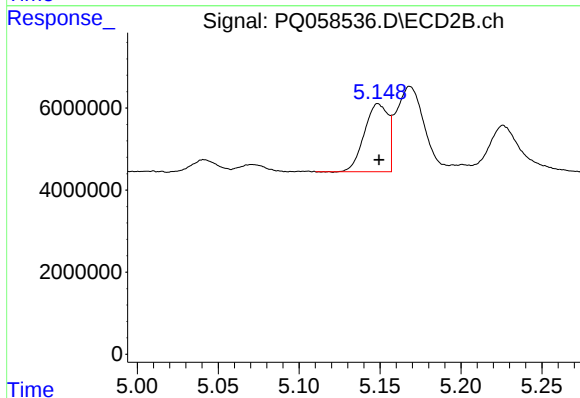
R.T.: 5.957 min
Delta R.T.: 0.000 min
Response: 14095659
Conc: 120.76 ng/ml



#21 AR-1248-1

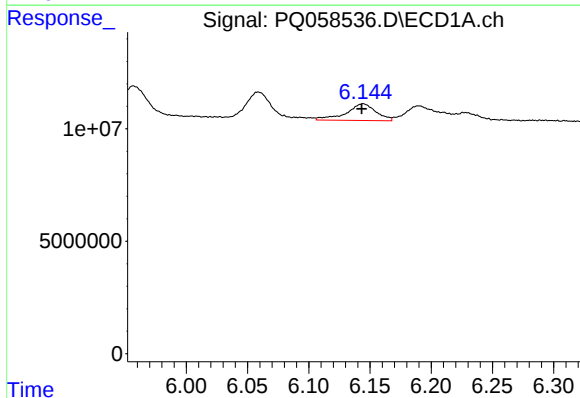
R.T.: 5.873 min
Delta R.T.: 0.001 min
Response: 18518519
Conc: 157.57 ng/ml

Instrument :
ECD_Q
ClientSampleId :



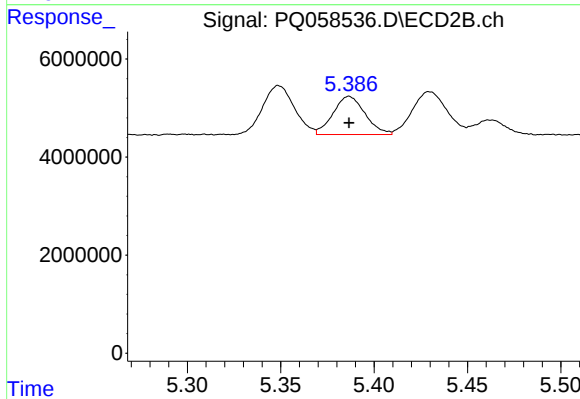
#21 AR-1248-1

R.T.: 5.149 min
Delta R.T.: 0.000 min
Response: 16785444
Conc: 145.01 ng/ml



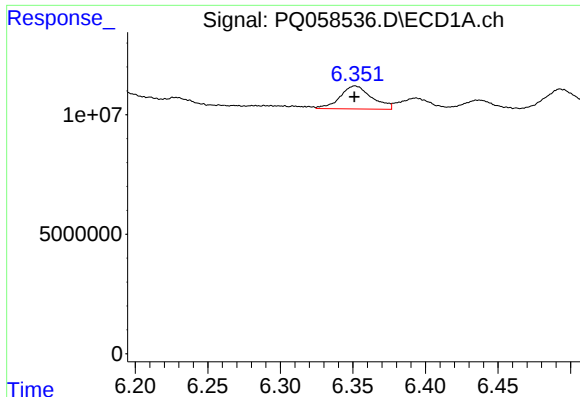
#22 AR-1248-2

R.T.: 6.145 min
Delta R.T.: 0.001 min
Response: 12518091
Conc: 74.36 ng/ml



#22 AR-1248-2

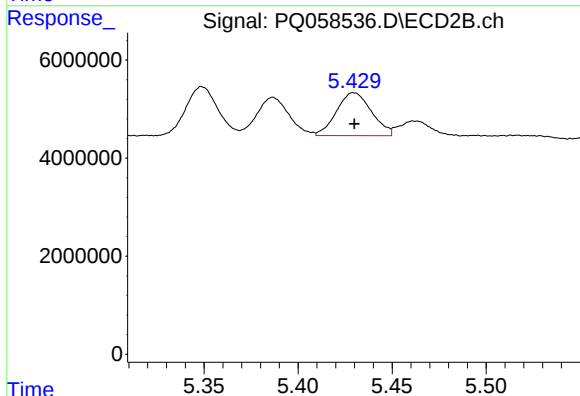
R.T.: 5.387 min
Delta R.T.: 0.000 min
Response: 9295902
Conc: 55.75 ng/ml



#23 AR-1248-3

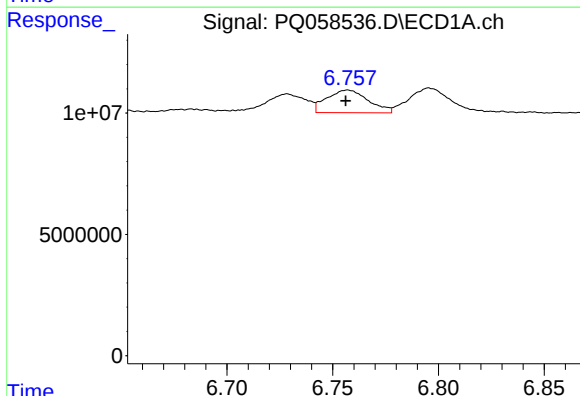
R.T.: 6.351 min
Delta R.T.: 0.000 min
Response: 14660634
Conc: 72.53 ng/ml

Instrument :
ECD_Q
ClientSampleId :



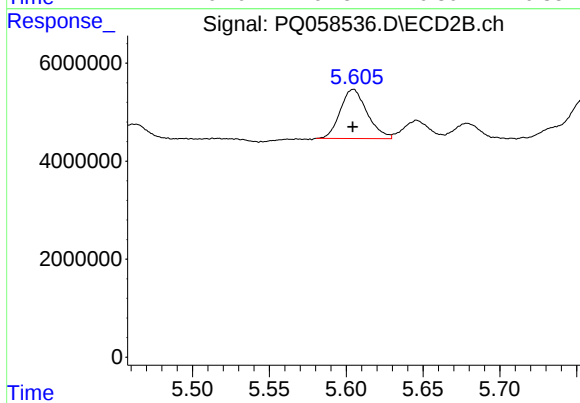
#23 AR-1248-3

R.T.: 5.430 min
Delta R.T.: 0.000 min
Response: 11354410
Conc: 65.72 ng/ml



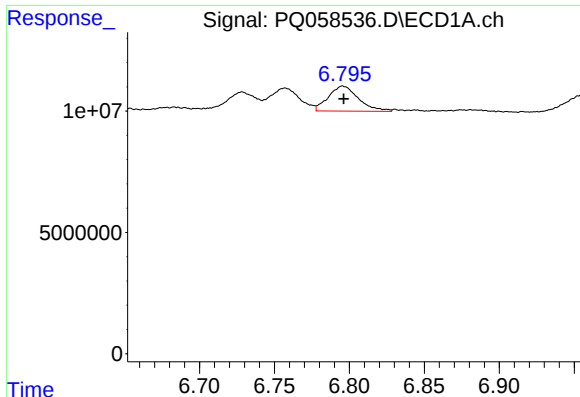
#24 AR-1248-4

R.T.: 6.757 min
Delta R.T.: 0.000 min
Response: 12752162
Conc: 64.36 ng/ml



#24 AR-1248-4

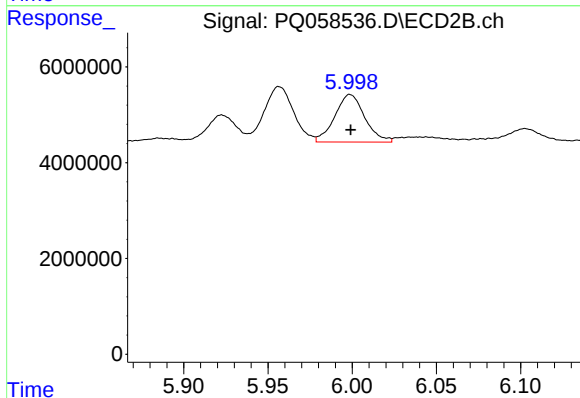
R.T.: 5.605 min
Delta R.T.: 0.000 min
Response: 12240764
Conc: 61.72 ng/ml



#25 AR-1248-5

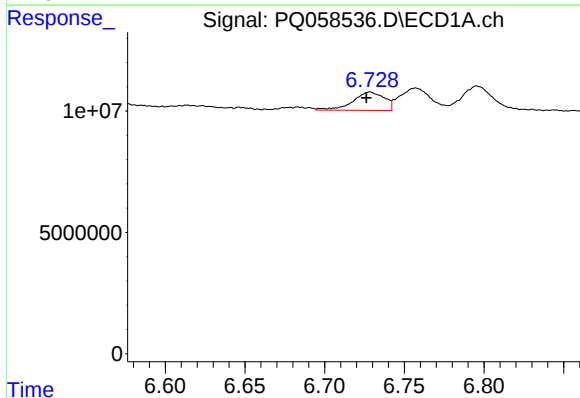
R.T.: 6.795 min
Delta R.T.: 0.000 min
Response: 14383402
Conc: 68.02 ng/ml

Instrument :
ECD_Q
ClientSampleId :



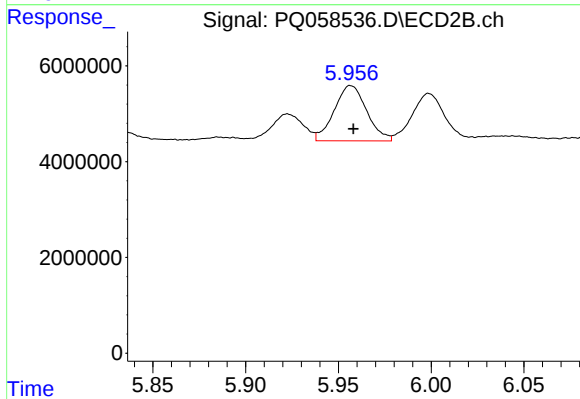
#25 AR-1248-5

R.T.: 5.999 min
Delta R.T.: 0.000 min
Response: 12301887
Conc: 69.32 ng/ml



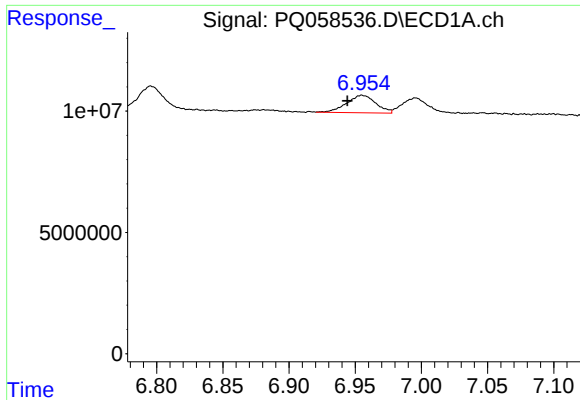
#26 AR-1254-1

R.T.: 6.729 min
Delta R.T.: 0.002 min
Response: 10409120
Conc: 49.99 ng/ml



#26 AR-1254-1

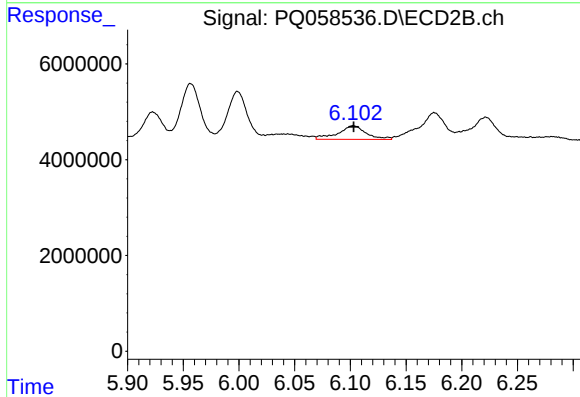
R.T.: 5.957 min
Delta R.T.: -0.001 min
Response: 14095659
Conc: 46.62 ng/ml



#27 AR-1254-2

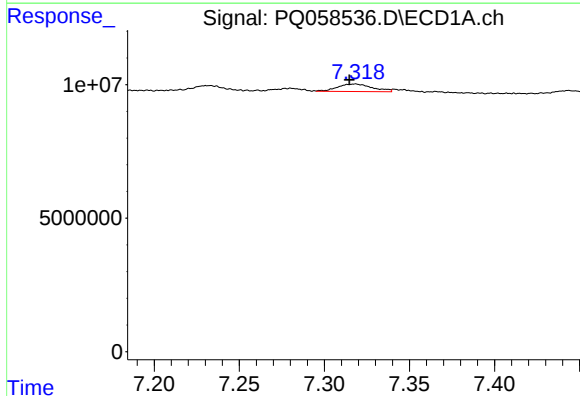
R.T.: 6.955 min
Delta R.T.: 0.011 min
Response: 11133617
Conc: 35.77 ng/ml

Instrument :
ECD_Q
ClientSampleId :



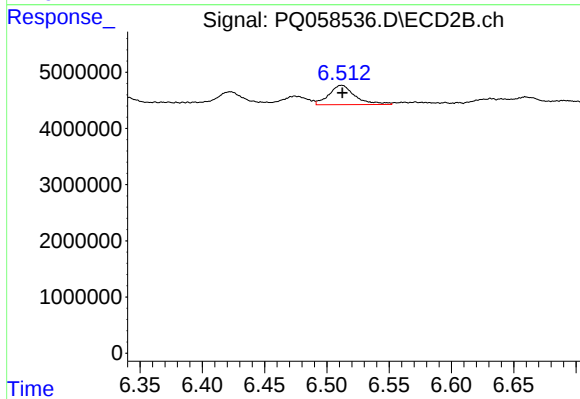
#27 AR-1254-2

R.T.: 6.103 min
Delta R.T.: 0.000 min
Response: 5036920
Conc: 19.38 ng/ml



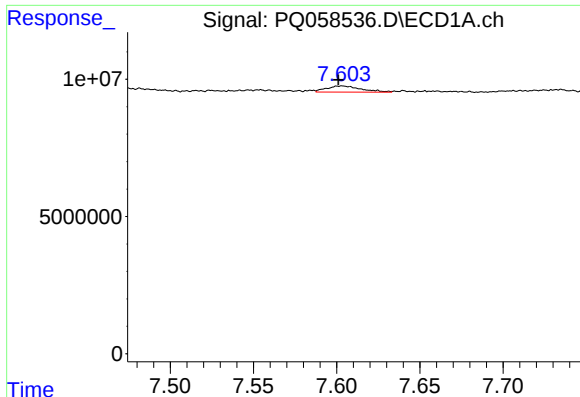
#28 AR-1254-3

R.T.: 7.318 min
Delta R.T.: 0.004 min
Response: 4011113
Conc: 11.19 ng/ml



#28 AR-1254-3

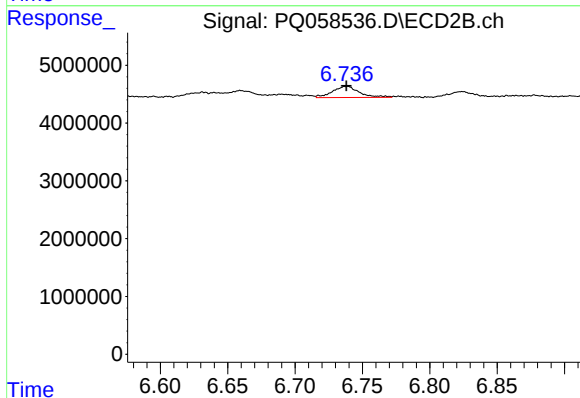
R.T.: 6.512 min
Delta R.T.: 0.000 min
Response: 4994630
Conc: 12.47 ng/ml



#29 AR-1254-4

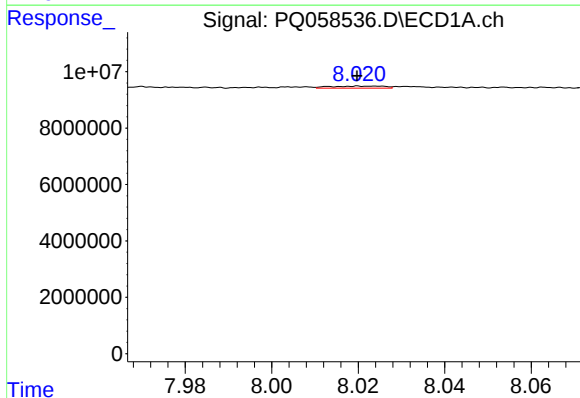
R.T.: 7.604 min
Delta R.T.: 0.003 min
Response: 3244715
Conc: 14.95 ng/ml

Instrument :
ECD_Q
ClientSampleId :



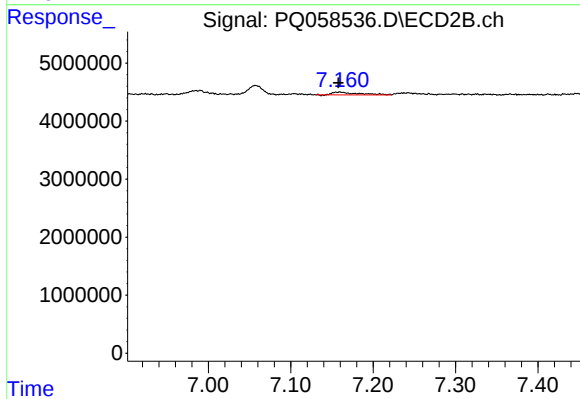
#29 AR-1254-4

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 2676378
Conc: 10.45 ng/ml



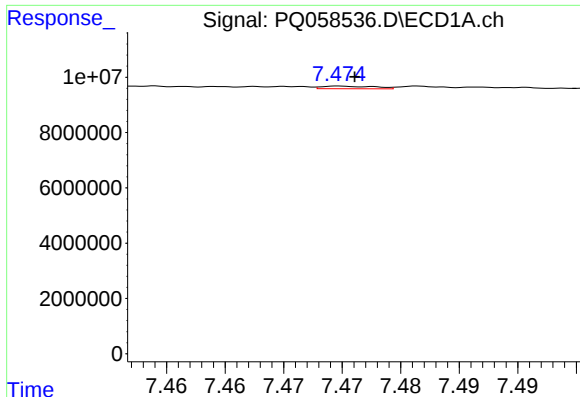
#30 AR-1254-5

R.T.: 8.020 min
Delta R.T.: 0.000 min
Response: 621673
Conc: 2.39 ng/ml



#30 AR-1254-5

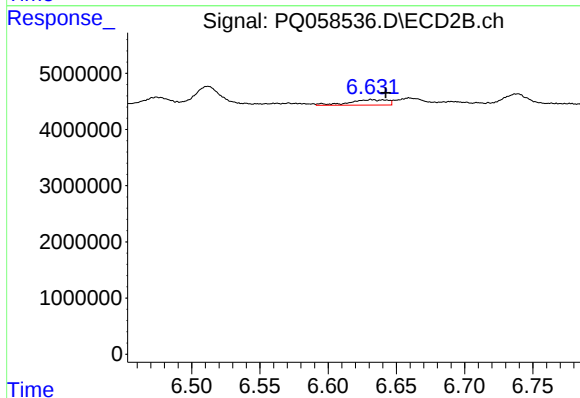
R.T.: 7.160 min
Delta R.T.: 0.002 min
Response: 1026071
Conc: 3.36 ng/ml



#31 AR-1260-1

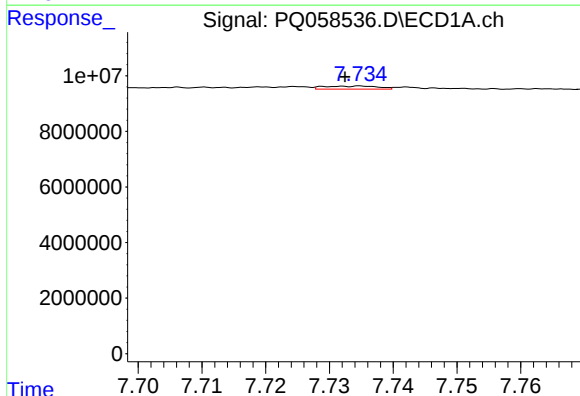
R.T.: 7.475 min
Delta R.T.: -0.001 min
Response: 293967
Conc: 1.67 ng/ml

Instrument :
ECD_Q
ClientSampleId :



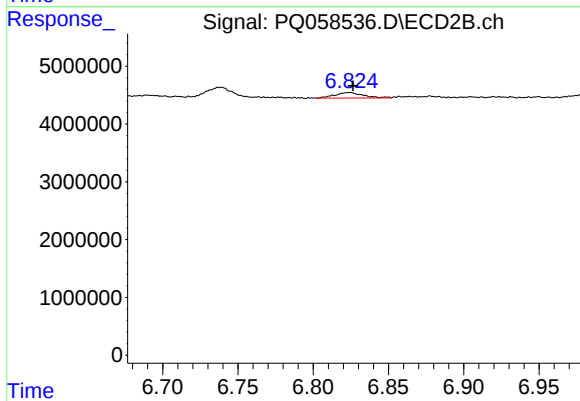
#31 AR-1260-1

R.T.: 6.632 min
Delta R.T.: -0.010 min
Response: 1902206
Conc: 9.50 ng/ml



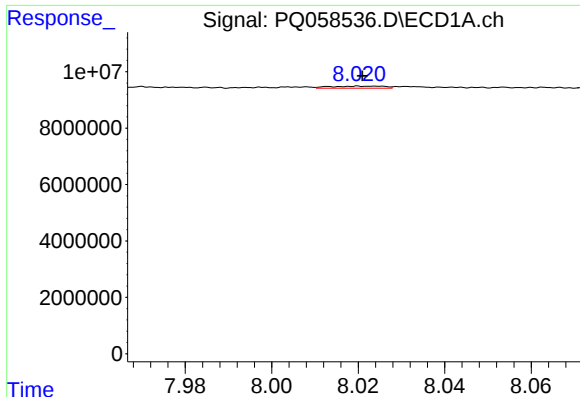
#32 AR-1260-2

R.T.: 7.735 min
Delta R.T.: 0.003 min
Response: 661136
Conc: 3.16 ng/ml



#32 AR-1260-2

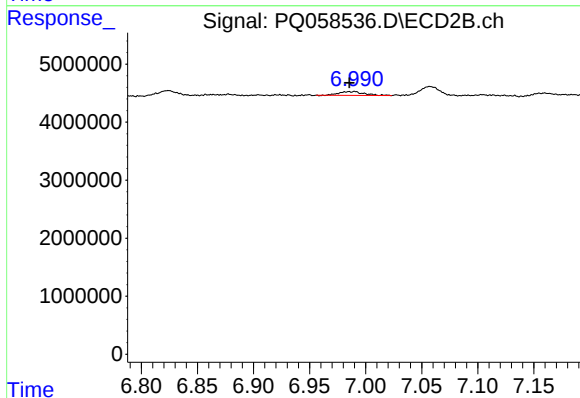
R.T.: 6.824 min
Delta R.T.: -0.003 min
Response: 1261609
Conc: 5.42 ng/ml



#33 AR-1260-3

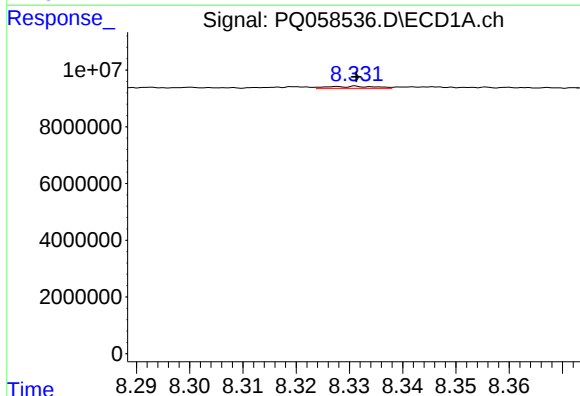
R.T.: 8.020 min
Delta R.T.: 0.000 min
Response: 621673
Conc: 2.35 ng/ml

Instrument :
ECD_Q
ClientSampleId :



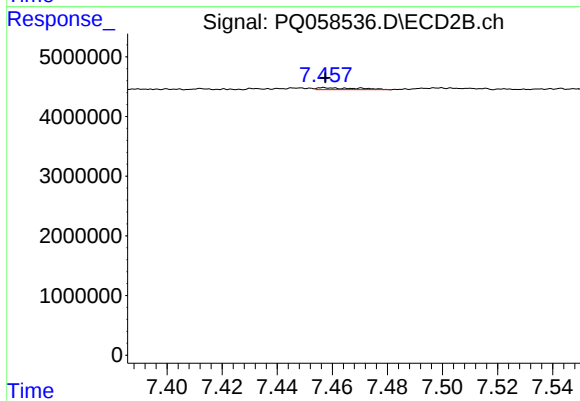
#33 AR-1260-3

R.T.: 6.990 min
Delta R.T.: 0.005 min
Response: 1000941
Conc: 4.68 ng/ml



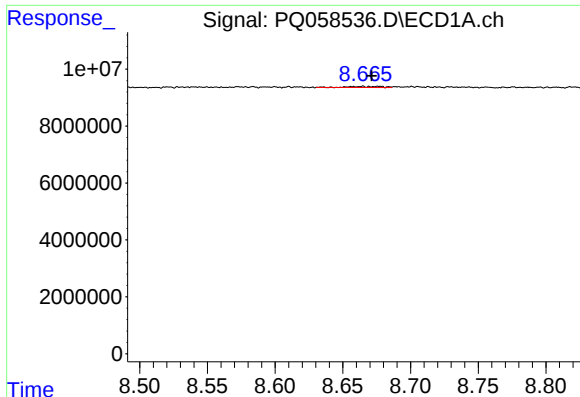
#34 AR-1260-4

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 447976
Conc: 2.20 ng/ml



#34 AR-1260-4

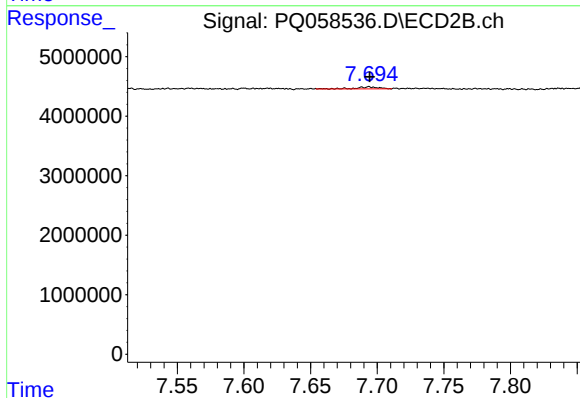
R.T.: 7.457 min
Delta R.T.: 0.000 min
Response: 313984
Conc: 1.78 ng/ml



#35 AR-1260-5

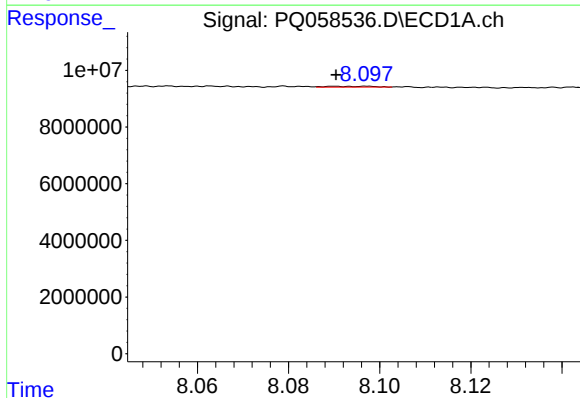
R.T.: 8.665 min
Delta R.T.: -0.007 min
Response: 611615
Conc: 1.39 ng/ml

Instrument :
ECD_Q
ClientSampleId :



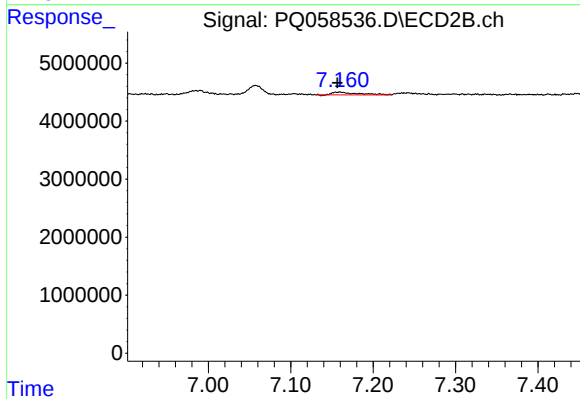
#35 AR-1260-5

R.T.: 7.694 min
Delta R.T.: 0.000 min
Response: 385594
Conc: 0.97 ng/ml



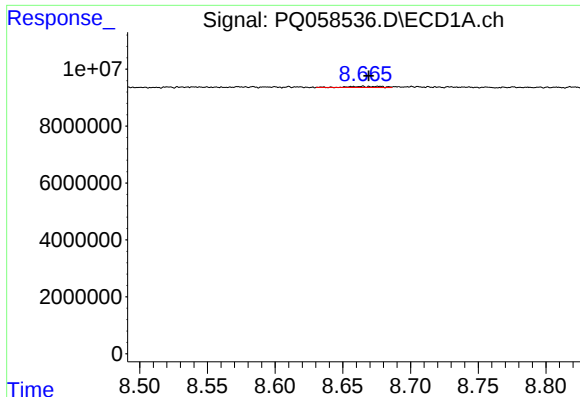
#36 AR-1262-1

R.T.: 8.097 min
Delta R.T.: 0.007 min
Response: 196355
Conc: 0.60 ng/ml



#36 AR-1262-1

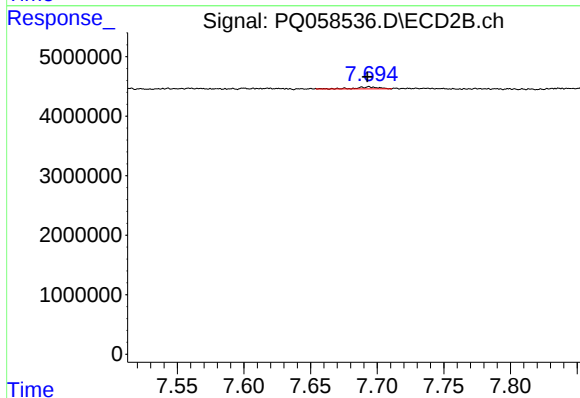
R.T.: 7.160 min
Delta R.T.: 0.003 min
Response: 1026071
Conc: 6.36 ng/ml



#37 AR-1262-2

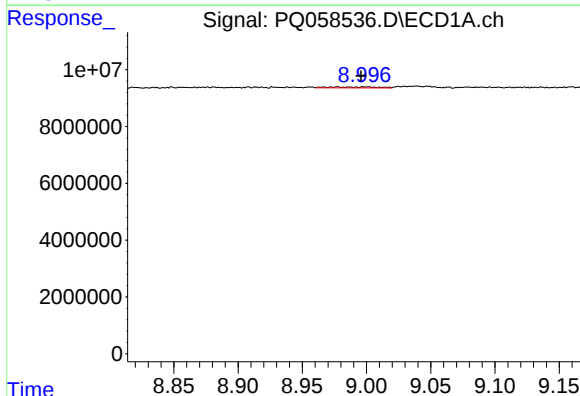
R.T.: 8.665 min
Delta R.T.: -0.005 min
Response: 611615
Conc: 0.96 ng/ml

Instrument :
ECD_Q
ClientSampleId :



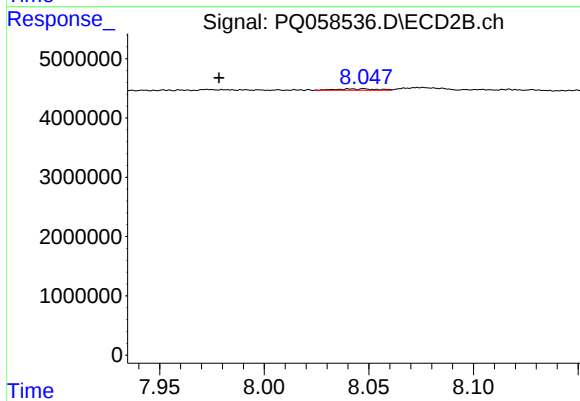
#37 AR-1262-2

R.T.: 7.694 min
Delta R.T.: 0.001 min
Response: 385594
Conc: 0.69 ng/ml



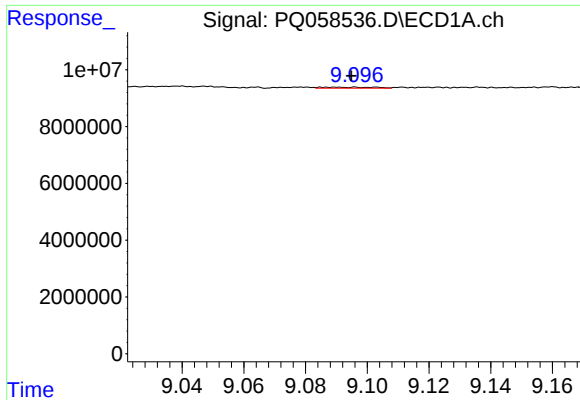
#38 AR-1262-3

R.T.: 8.978 min
Delta R.T.: -0.018 min
Response: 864289
Conc: 2.47 ng/ml



#38 AR-1262-3

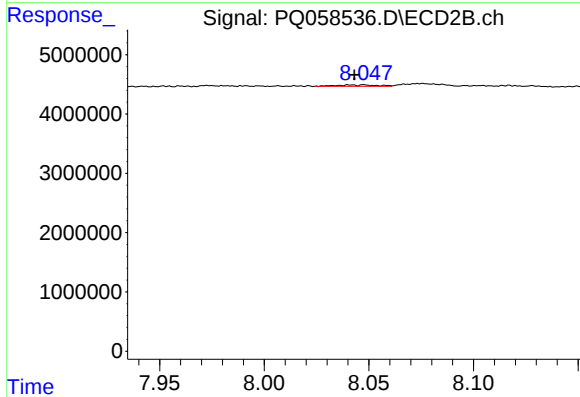
R.T.: 8.048 min
Delta R.T.: 0.069 min
Response: 318594
Conc: 1.46 ng/ml



#39 AR-1262-4

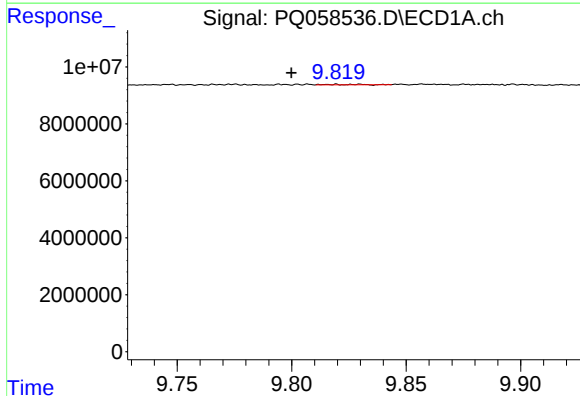
R.T.: 9.089 min
Delta R.T.: -0.005 min
Response: 413102
Conc: 1.32 ng/ml

Instrument :
ECD_Q
ClientSampleId :



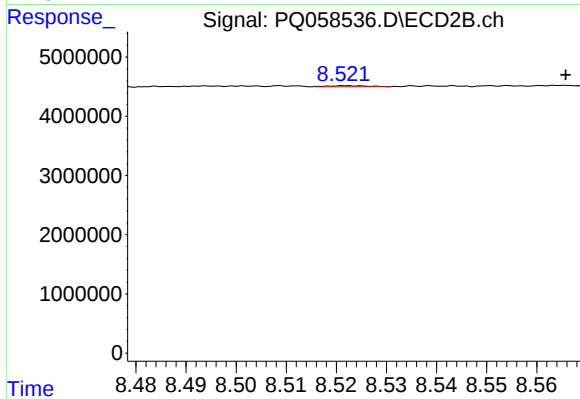
#39 AR-1262-4

R.T.: 8.048 min
Delta R.T.: 0.005 min
Response: 318594
Conc: 0.80 ng/ml



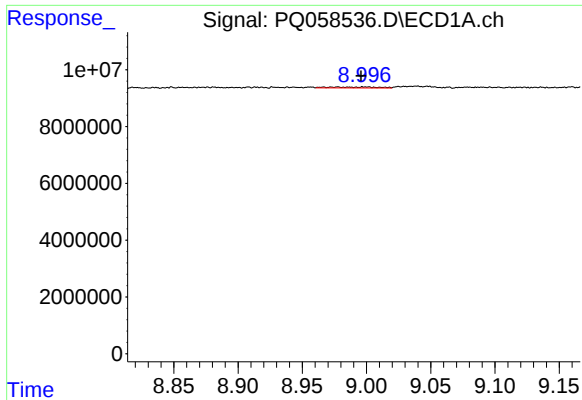
#40 AR-1262-5

R.T.: 9.819 min
Delta R.T.: 0.020 min
Response: 145930
Conc: 0.58 ng/ml



#40 AR-1262-5

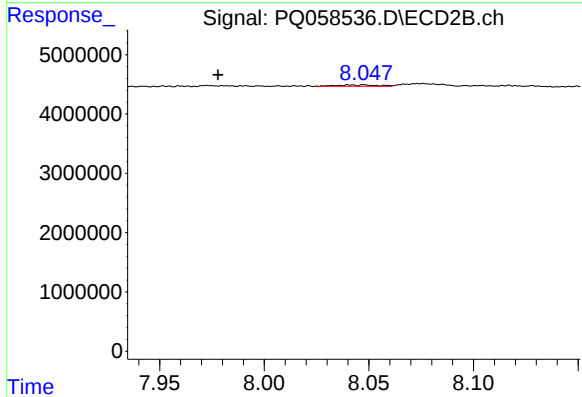
R.T.: 8.522 min
Delta R.T.: -0.043 min
Response: 96222
Conc: 0.61 ng/ml



#41 AR-1268-1

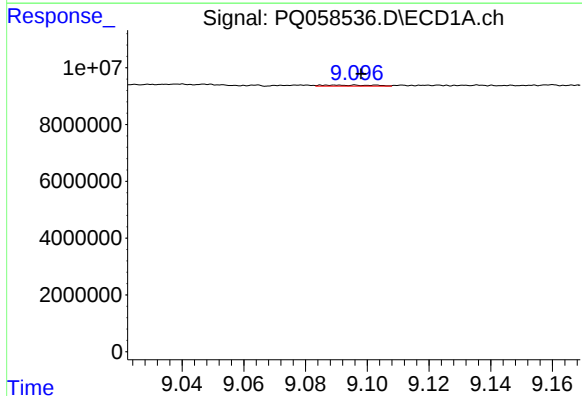
R.T.: 8.978 min
Delta R.T.: -0.018 min
Response: 864289
Conc: 0.83 ng/ml

Instrument :
ECD_Q
ClientSampleId :



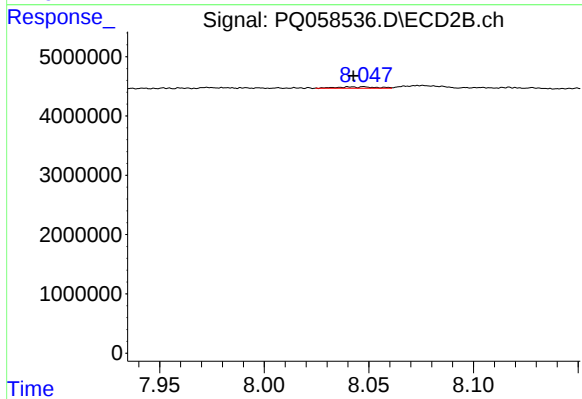
#41 AR-1268-1

R.T.: 8.048 min
Delta R.T.: 0.070 min
Response: 318594
Conc: 0.41 ng/ml



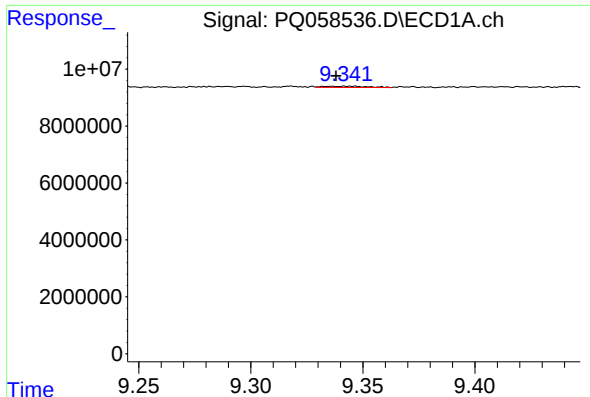
#42 AR-1268-2

R.T.: 9.089 min
Delta R.T.: -0.008 min
Response: 413102
Conc: 0.38 ng/ml



#42 AR-1268-2

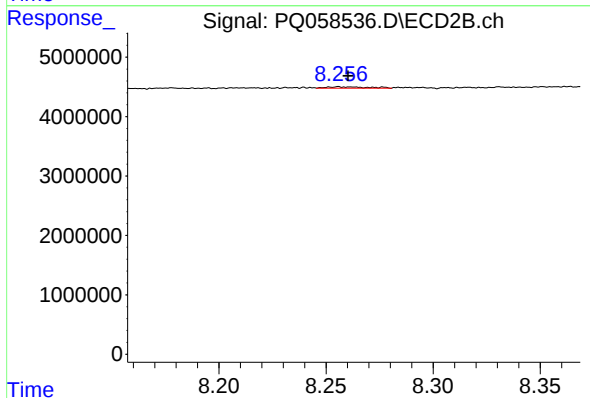
R.T.: 8.048 min
Delta R.T.: 0.005 min
Response: 318594
Conc: 0.45 ng/ml



#43 AR-1268-3

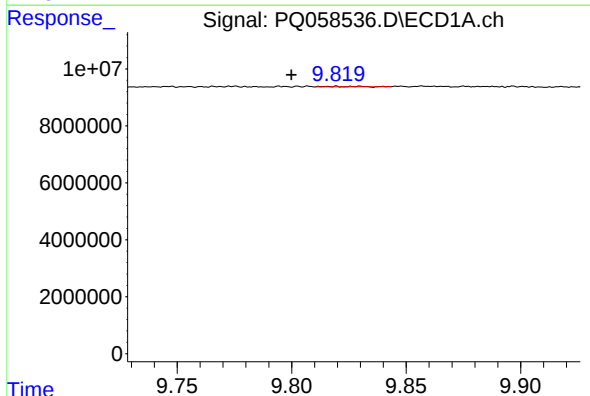
R.T.: 9.345 min
Delta R.T.: 0.007 min
Response: 600438
Conc: 0.61 ng/ml

Instrument :
ECD_Q
ClientSampleId :



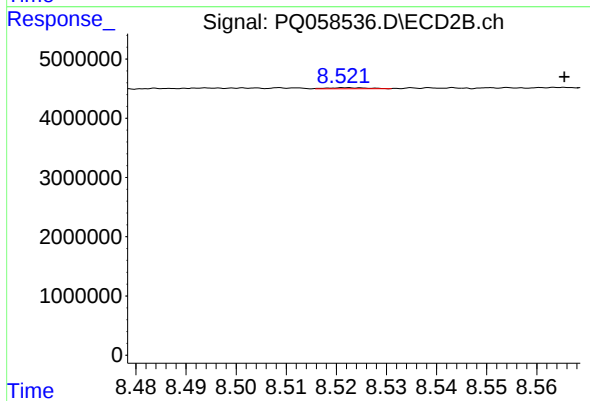
#43 AR-1268-3

R.T.: 8.256 min
Delta R.T.: -0.004 min
Response: 309107
Conc: 0.50 ng/ml



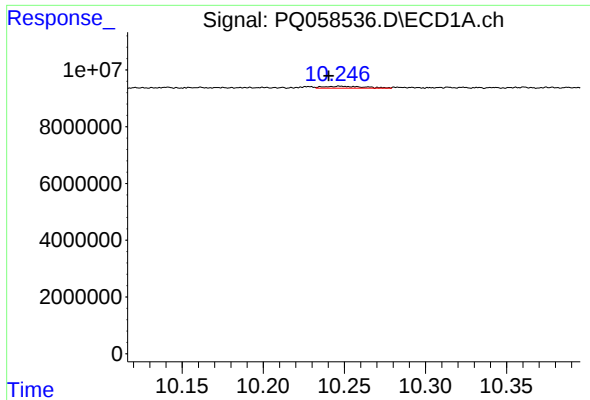
#44 AR-1268-4

R.T.: 9.819 min
Delta R.T.: 0.020 min
Response: 145930
Conc: 0.44 ng/ml



#44 AR-1268-4

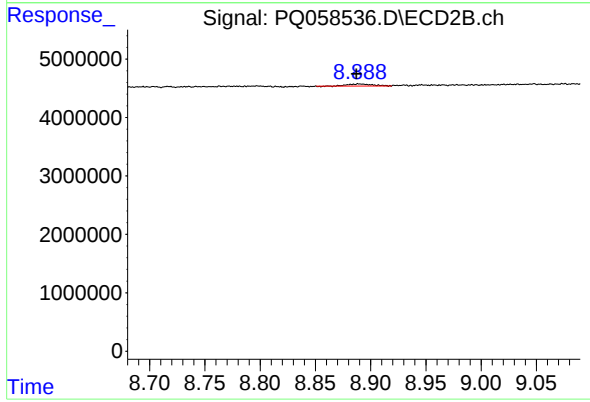
R.T.: 8.522 min
Delta R.T.: -0.043 min
Response: 96222
Conc: 0.45 ng/ml



#45 AR-1268-5

R.T.: 10.248 min
Delta R.T.: 0.007 min
Response: 1151725
Conc: 0.38 ng/ml

Instrument :
ECD_Q
ClientSampleId :



#45 AR-1268-5

R.T.: 8.890 min
Delta R.T.: 0.003 min
Response: 532916
Conc: 0.29 ng/ml