

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO100919\
 Data File : PO061837.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 09 Oct 2019 18:03
 Operator : HP/AJ
 Sample : K5285-03MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_O
 ClientSampleId :
 TP-1-SMSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 10 01:14:14 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO100119.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Oct 01 15:34:04 2019
 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...	4.352	3.513	972909	675958	23.721	20.902
2)	SA Decachlor...	10.008	8.372	867971	541766	18.638	16.734
Target Compounds							
3)	L1 AR-1016-1	5.537	4.580	656561	445195	358.043	331.083
4)	L1 AR-1016-2	5.599	4.610	402131	34196	155.574	18.451 #
5)	L1 AR-1016-3	5.599	4.792	402131	206031	250.324	205.677
6)	L1 AR-1016-4	5.734	4.831	454	255320	0.339	294.635 #
7)	L1 AR-1016-5	6.031	5.036	136778	109080	99.734	95.564
8)	L2 AR-1221-1	4.556	3.719	32921	33797	71.213	85.351
9)	L2 AR-1221-2	4.648	3.803	51489	49601	143.414	160.838
10)	L2 AR-1221-3	4.723	3.876	212949	161982	187.039	177.585
11)	L3 AR-1232-1	4.723	3.876	212949	161982	152.279	144.267
12)	L3 AR-1232-2	5.249	4.610	300725	34196	383.304	28.014 #
13)	L3 AR-1232-3	5.537	4.749	656561	240401	384.250	364.104
14)	L3 AR-1232-4	5.698	4.861	341200	95320	385.630	151.217 #
15)	L3 AR-1232-5	5.787	4.998	302918	271062	436.901	395.048
16)	L4 AR-1242-1	5.537	4.562	656561	327291	462.314	319.463 #
17)	L4 AR-1242-2	5.537	4.580	656561	445195	326.674	315.691
18)	L4 AR-1242-3	5.599	4.749	402131	240401	318.678	307.858
19)	L4 AR-1242-4	5.698	4.831	341200	255320	324.715	311.139
20)	L4 AR-1242-5	6.431	5.340	61540	219460	46.011	204.865 #
21)	L5 AR-1248-1	5.537	4.580	656561	445195	558.862	497.527
22)	L5 AR-1248-2	5.831	4.831	311322	255320	184.523	216.691
23)	L5 AR-1248-3	6.031	4.861	136778	95320	73.189	76.792
24)	L5 AR-1248-4	6.431	5.036	61540	109080	26.045	72.560 #
25)	L5 AR-1248-5	6.431	5.429	61540	39643	27.141	25.840
26)	L6 AR-1254-1	6.393	5.340	71349	219460	31.274	100.060 #
27)	L6 AR-1254-2	6.583	5.484	306260	214005	84.765	109.159 #
28)	L6 AR-1254-3	6.950	5.891	166604	377059	42.639	118.432 #
29)	L6 AR-1254-4	7.234	6.131	110698	134116	36.551	66.105 #
30)	L6 AR-1254-5	7.682	6.547	122099	434069	38.880	153.465 #
31)	L7 AR-1260-1	7.165	6.063	2943	17112	1.127	8.389 #
32)	L7 AR-1260-2	7.412	6.190	258861	616981	81.199	256.890 #
33)	L7 AR-1260-3	7.784	6.338	296321	568140	123.371	252.158 #
34)	L7 AR-1260-4	7.951	6.838	633967	76670	237.259	41.528 #
35)	L7 AR-1260-5	8.316	7.094	112706	27553	22.777	7.076 #
36)	L8 AR-1262-1	7.726	6.600	527941	226913	137.791	185.897 #
37)	L8 AR-1262-2	8.265	7.042	1087384	847307	175.156	184.276
38)	L8 AR-1262-3	8.583	7.319	725058	173667	174.447	92.188 #
39)	L8 AR-1262-4	8.636	7.381	462661	600001	146.557	178.533
40)	L8 AR-1262-5	9.290	7.871	257572	178132	126.656	117.504
41)	L9 AR-1268-1	8.583	7.319	725058	173667	107.824	35.962 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO100919\
Data File : P0061837.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Oct 2019 18:03
Operator : HP/AJ
Sample : K5285-03MSD
Misc :
ALS Vial : 26 Sample Multiplier: 1

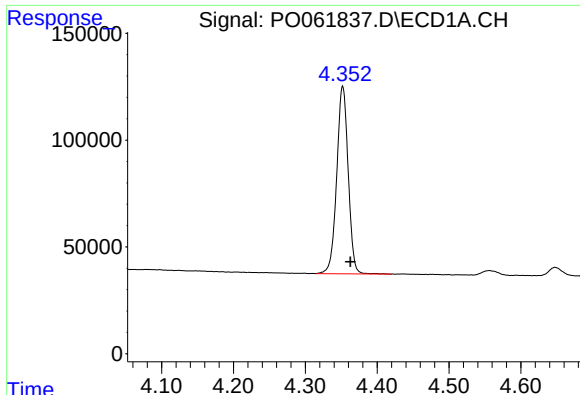
Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 10 01:14:14 2019
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO100119.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Oct 01 15:34:04 2019
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
42)	L9 AR-1268-2	8.636	7.381	462661	600001	74.714	139.217 #
43)	L9 AR-1268-3	8.876	7.584	67081	23501	13.122	6.557 #
44)	L9 AR-1268-4	9.290	7.871	257572	178132	117.796	110.683
45)	L9 AR-1268-5	9.686	8.141	76289	71914	5.078	7.151 #

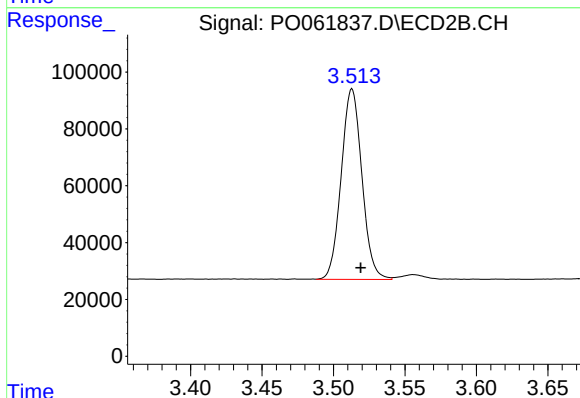
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

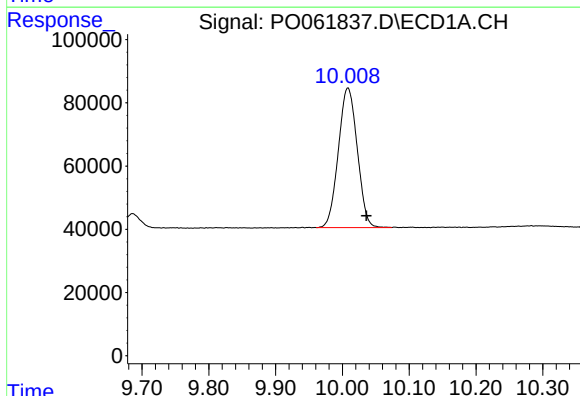
R.T.: 4.352 min
Delta R.T.: -0.011 min
Response: 972909
Conc: 23.72 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



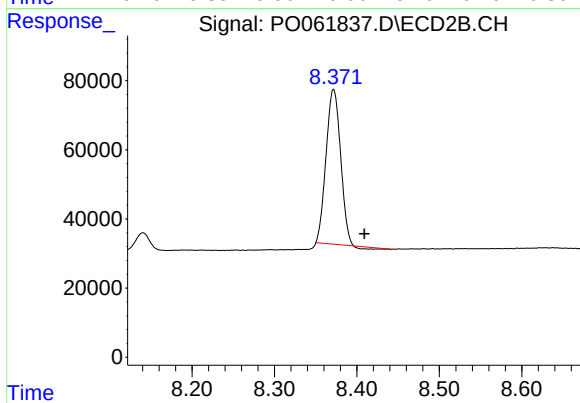
#1 Tetrachloro-m-xylene

R.T.: 3.513 min
Delta R.T.: -0.006 min
Response: 675958
Conc: 20.90 ng/ml



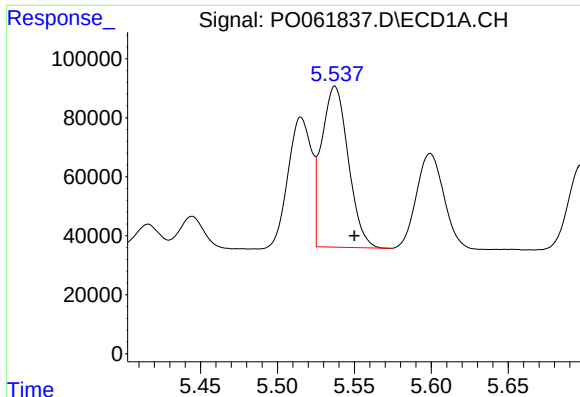
#2 Decachlorobiphenyl

R.T.: 10.008 min
Delta R.T.: -0.028 min
Response: 867971
Conc: 18.64 ng/ml



#2 Decachlorobiphenyl

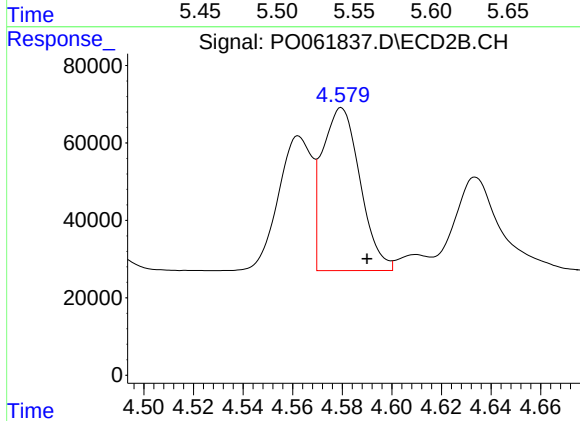
R.T.: 8.372 min
Delta R.T.: -0.037 min
Response: 541766
Conc: 16.73 ng/ml



#3 AR-1016-1

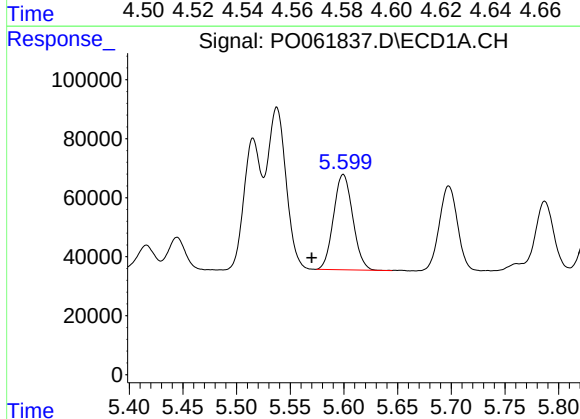
R.T.: 5.537 min
Delta R.T.: -0.013 min
Response: 656561
Conc: 358.04 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



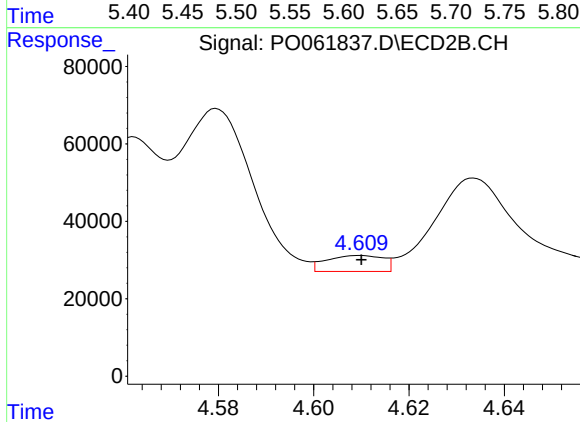
#3 AR-1016-1

R.T.: 4.580 min
Delta R.T.: -0.010 min
Response: 445195
Conc: 331.08 ng/ml



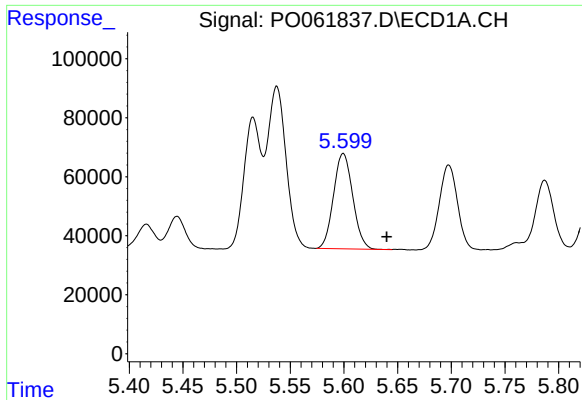
#4 AR-1016-2

R.T.: 5.599 min
Delta R.T.: 0.029 min
Response: 402131
Conc: 155.57 ng/ml



#4 AR-1016-2

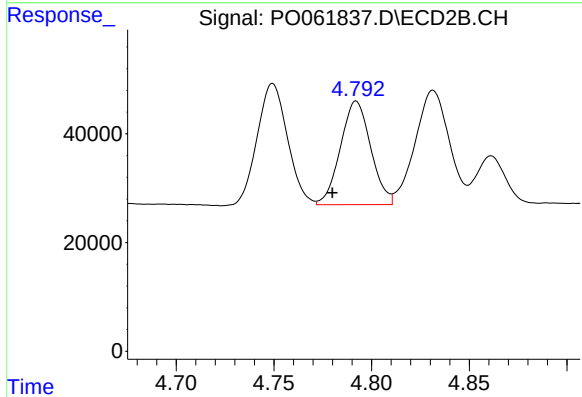
R.T.: 4.610 min
Delta R.T.: 0.000 min
Response: 34196
Conc: 18.45 ng/ml



#5 AR-1016-3

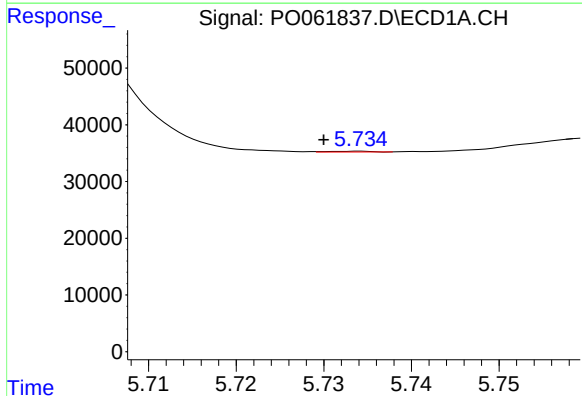
R.T.: 5.599 min
Delta R.T.: -0.041 min
Response: 402131
Conc: 250.32 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



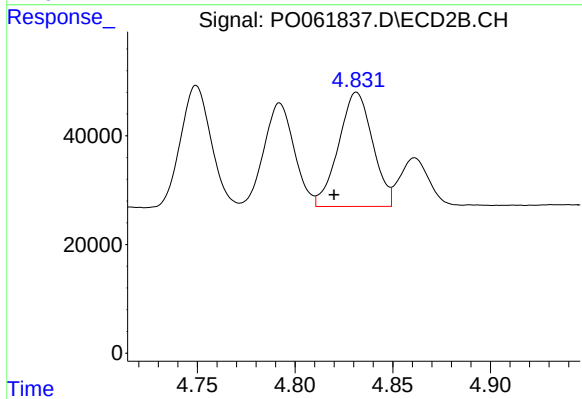
#5 AR-1016-3

R.T.: 4.792 min
Delta R.T.: 0.012 min
Response: 206031
Conc: 205.68 ng/ml



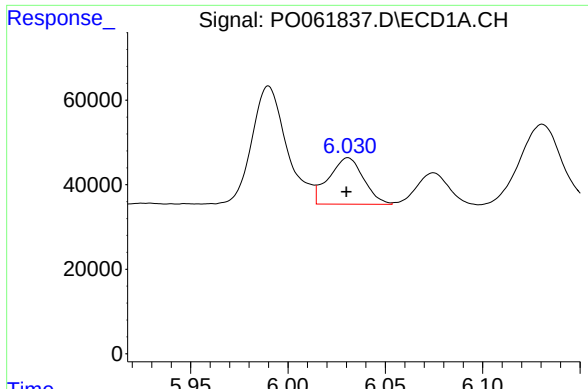
#6 AR-1016-4

R.T.: 5.734 min
Delta R.T.: 0.004 min
Response: 454
Conc: 0.34 ng/ml



#6 AR-1016-4

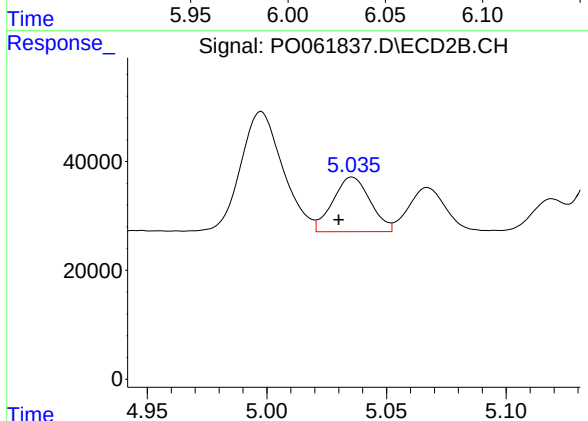
R.T.: 4.831 min
Delta R.T.: 0.011 min
Response: 255320
Conc: 294.63 ng/ml



#7 AR-1016-5

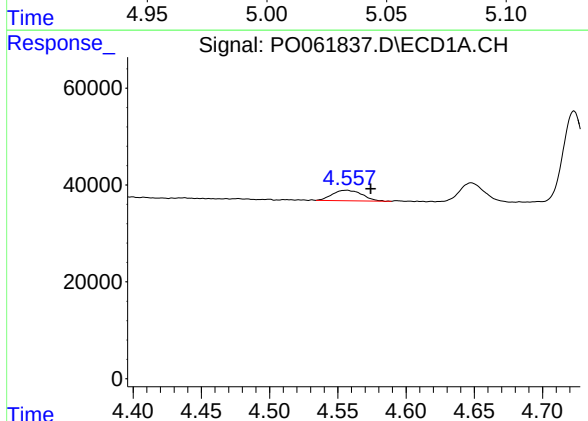
R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 136778
Conc: 99.73 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



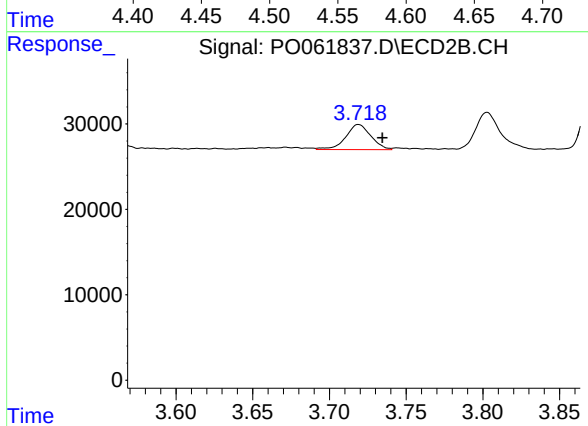
#7 AR-1016-5

R.T.: 5.036 min
Delta R.T.: 0.006 min
Response: 109080
Conc: 95.56 ng/ml



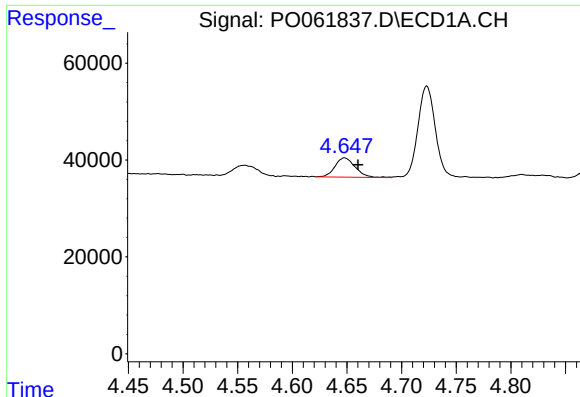
#8 AR-1221-1

R.T.: 4.556 min
Delta R.T.: -0.018 min
Response: 32921
Conc: 71.21 ng/ml



#8 AR-1221-1

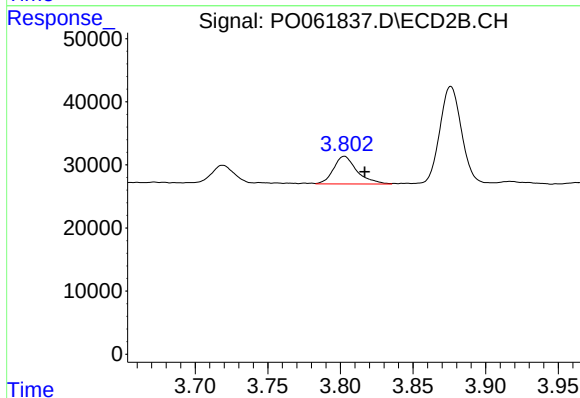
R.T.: 3.719 min
Delta R.T.: -0.016 min
Response: 33797
Conc: 85.35 ng/ml



#9 AR-1221-2

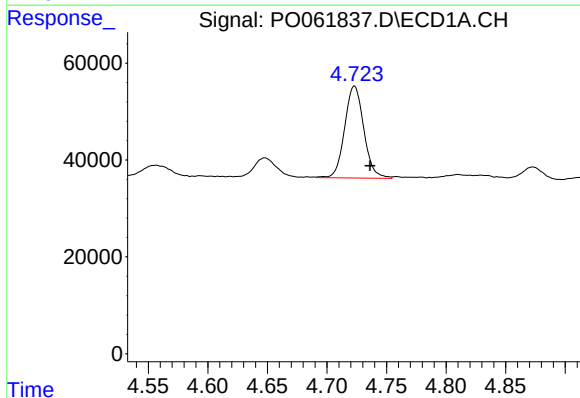
R.T.: 4.648 min
Delta R.T.: -0.012 min
Response: 51489
Conc: 143.41 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



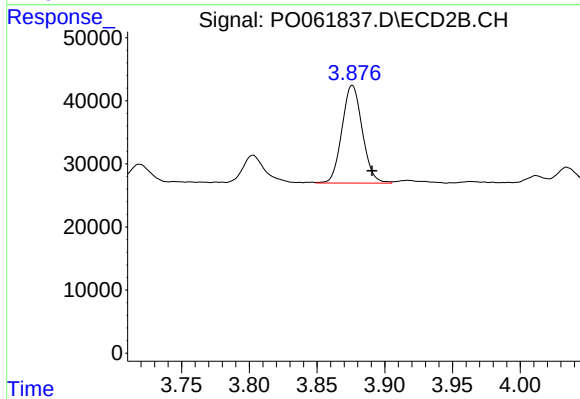
#9 AR-1221-2

R.T.: 3.803 min
Delta R.T.: -0.014 min
Response: 49601
Conc: 160.84 ng/ml



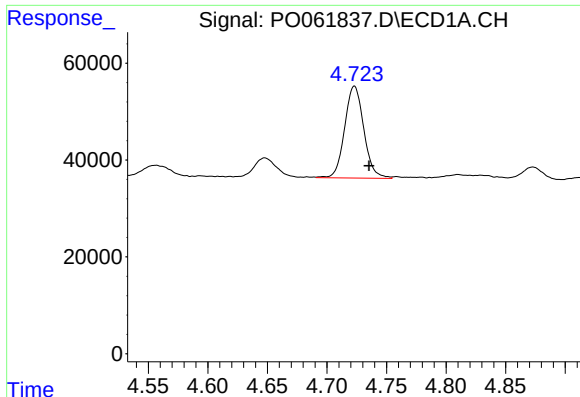
#10 AR-1221-3

R.T.: 4.723 min
Delta R.T.: -0.013 min
Response: 212949
Conc: 187.04 ng/ml



#10 AR-1221-3

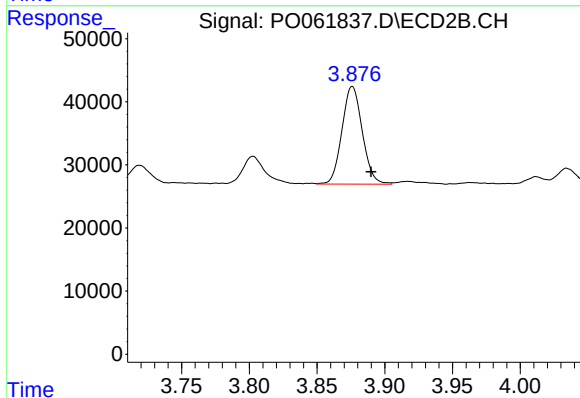
R.T.: 3.876 min
Delta R.T.: -0.015 min
Response: 161982
Conc: 177.58 ng/ml



#11 AR-1232-1

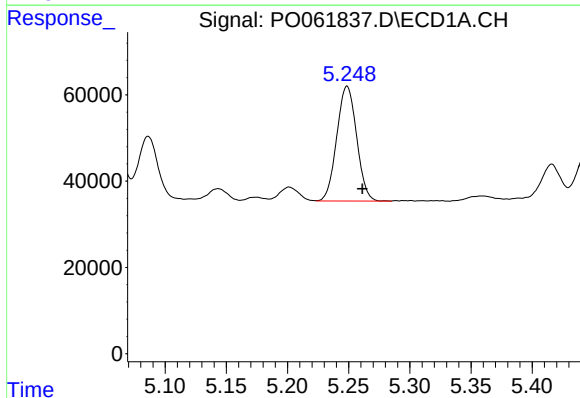
R.T.: 4.723 min
Delta R.T.: -0.012 min
Response: 212949
Conc: 152.28 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



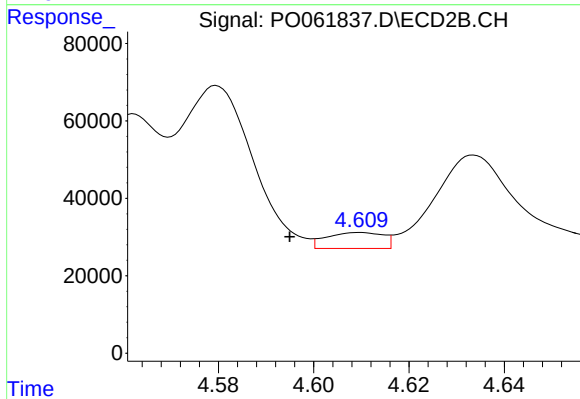
#11 AR-1232-1

R.T.: 3.876 min
Delta R.T.: -0.014 min
Response: 161982
Conc: 144.27 ng/ml



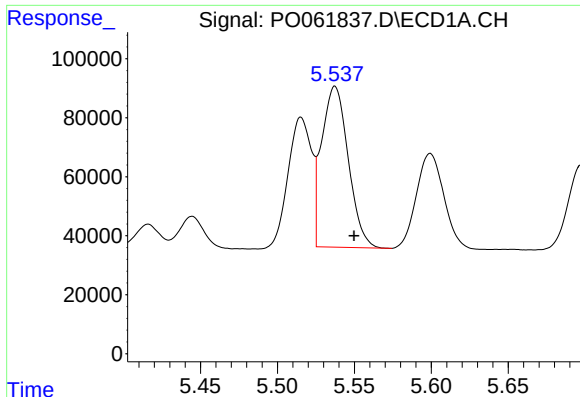
#12 AR-1232-2

R.T.: 5.249 min
Delta R.T.: -0.012 min
Response: 300725
Conc: 383.30 ng/ml



#12 AR-1232-2

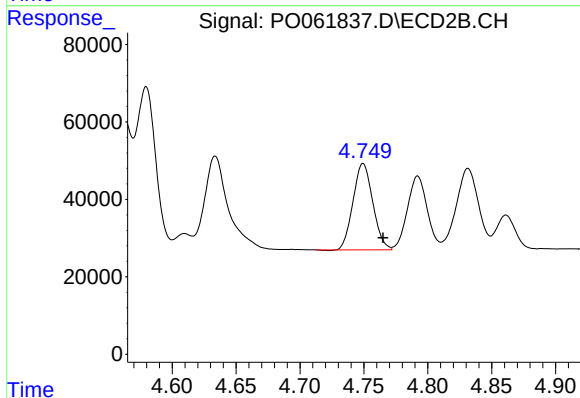
R.T.: 4.610 min
Delta R.T.: 0.015 min
Response: 34196
Conc: 28.01 ng/ml



#13 AR-1232-3

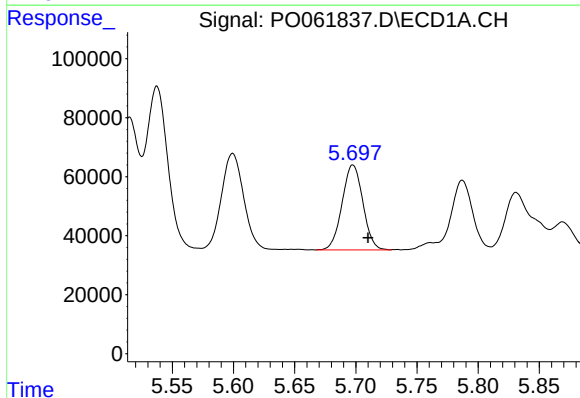
R.T.: 5.537 min
Delta R.T.: -0.012 min
Response: 656561
Conc: 384.25 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



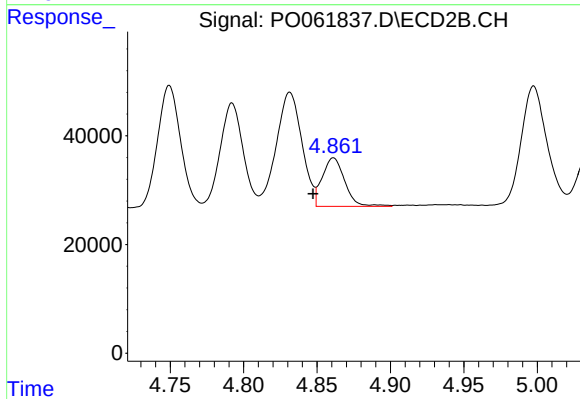
#13 AR-1232-3

R.T.: 4.749 min
Delta R.T.: -0.016 min
Response: 240401
Conc: 364.10 ng/ml



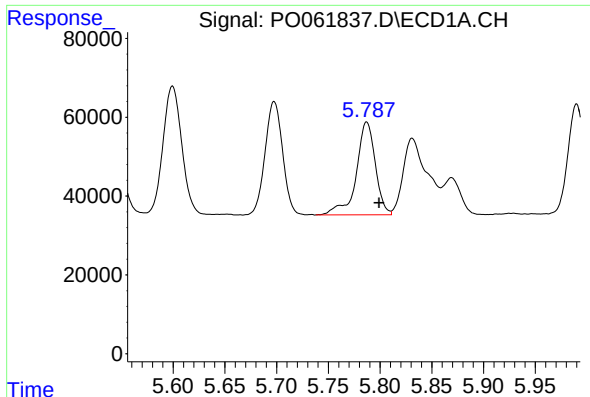
#14 AR-1232-4

R.T.: 5.698 min
Delta R.T.: -0.012 min
Response: 341200
Conc: 385.63 ng/ml



#14 AR-1232-4

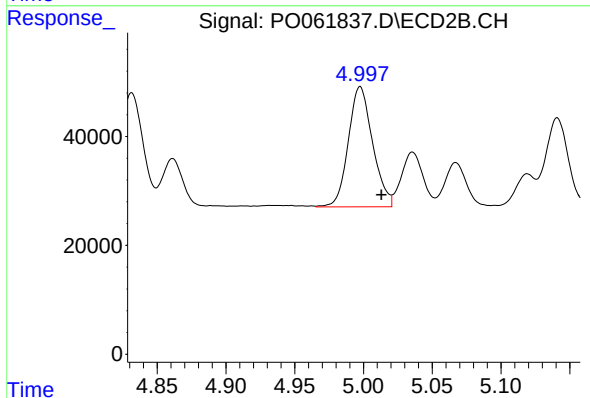
R.T.: 4.861 min
Delta R.T.: 0.014 min
Response: 95320
Conc: 151.22 ng/ml



#15 AR-1232-5

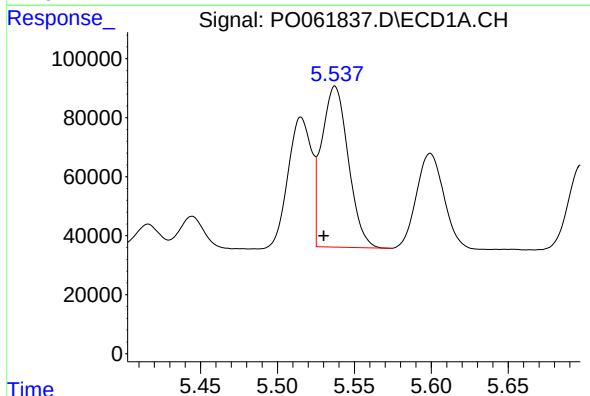
R.T.: 5.787 min
Delta R.T.: -0.012 min
Response: 302918
Conc: 436.90 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



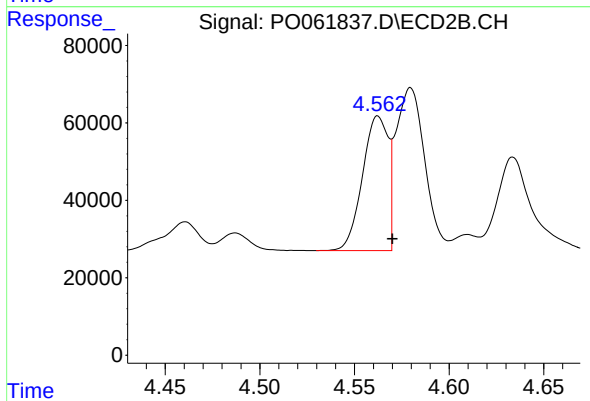
#15 AR-1232-5

R.T.: 4.998 min
Delta R.T.: -0.016 min
Response: 271062
Conc: 395.05 ng/ml



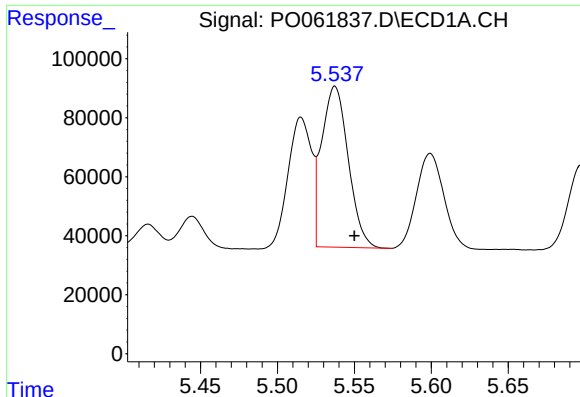
#16 AR-1242-1

R.T.: 5.537 min
Delta R.T.: 0.007 min
Response: 656561
Conc: 462.31 ng/ml



#16 AR-1242-1

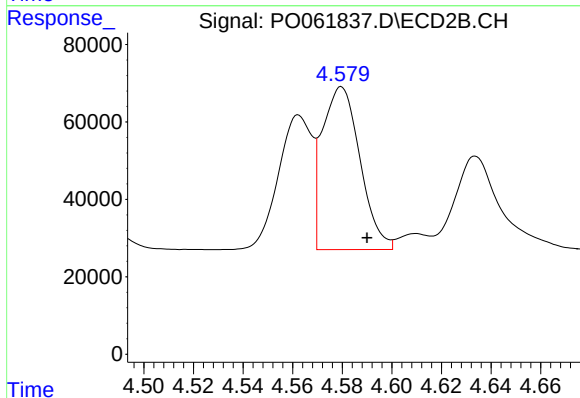
R.T.: 4.562 min
Delta R.T.: -0.008 min
Response: 327291
Conc: 319.46 ng/ml



#17 AR-1242-2

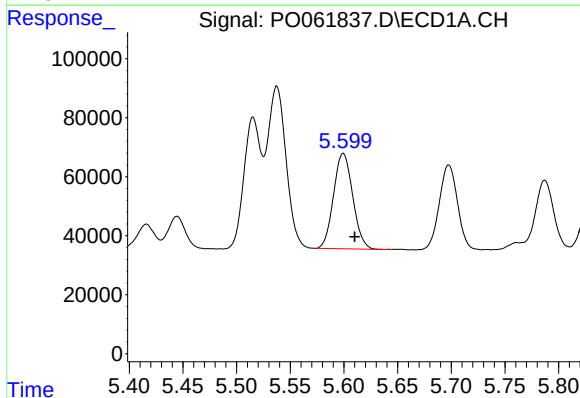
R.T.: 5.537 min
Delta R.T.: -0.013 min
Response: 656561
Conc: 326.67 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



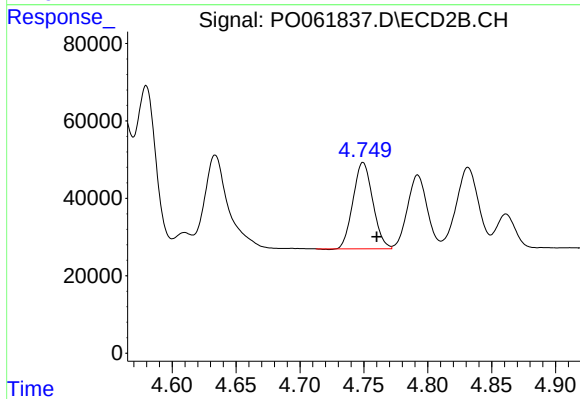
#17 AR-1242-2

R.T.: 4.580 min
Delta R.T.: -0.010 min
Response: 445195
Conc: 315.69 ng/ml



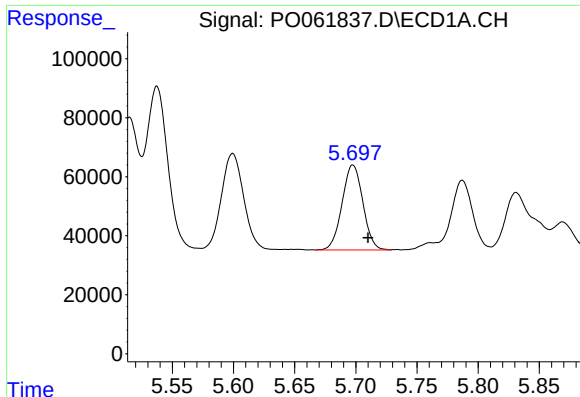
#18 AR-1242-3

R.T.: 5.599 min
Delta R.T.: -0.011 min
Response: 402131
Conc: 318.68 ng/ml



#18 AR-1242-3

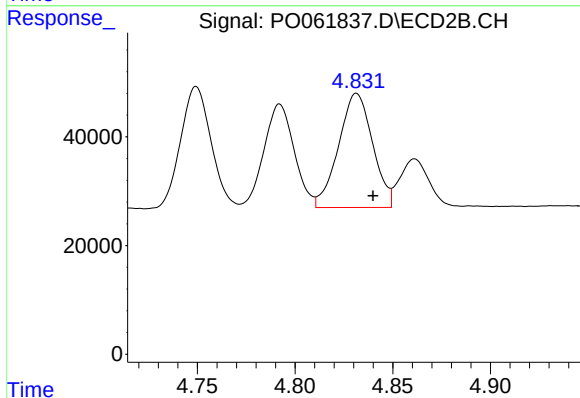
R.T.: 4.749 min
Delta R.T.: -0.011 min
Response: 240401
Conc: 307.86 ng/ml



#19 AR-1242-4

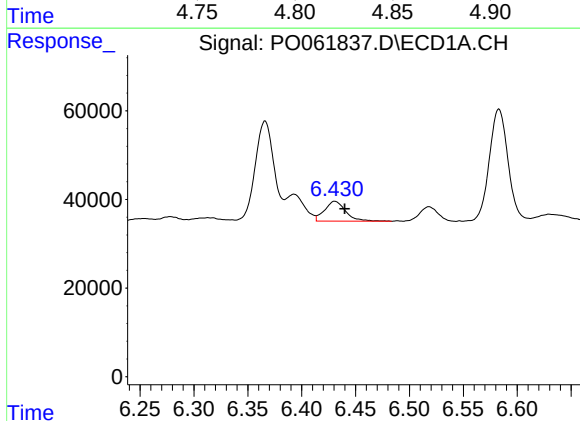
R.T.: 5.698 min
Delta R.T.: -0.012 min
Response: 341200
Conc: 324.72 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



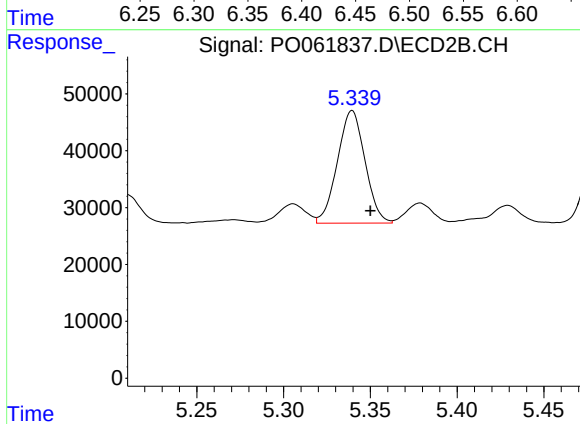
#19 AR-1242-4

R.T.: 4.831 min
Delta R.T.: -0.009 min
Response: 255320
Conc: 311.14 ng/ml



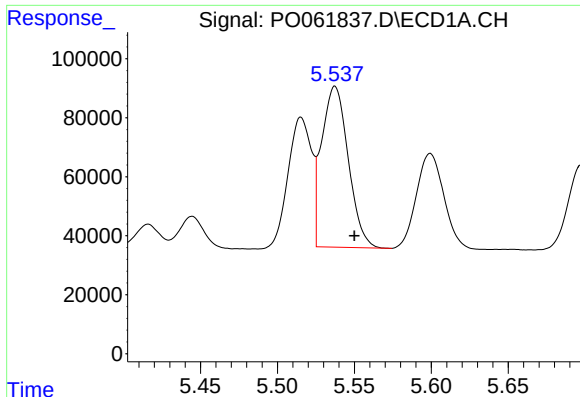
#20 AR-1242-5

R.T.: 6.431 min
Delta R.T.: -0.009 min
Response: 61540
Conc: 46.01 ng/ml



#20 AR-1242-5

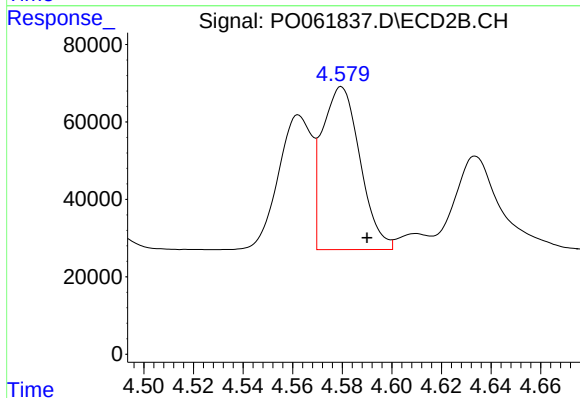
R.T.: 5.340 min
Delta R.T.: -0.010 min
Response: 219460
Conc: 204.86 ng/ml



#21 AR-1248-1

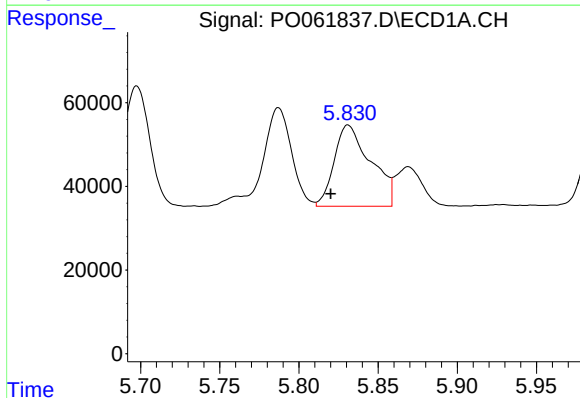
R.T.: 5.537 min
Delta R.T.: -0.013 min
Response: 656561
Conc: 558.86 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



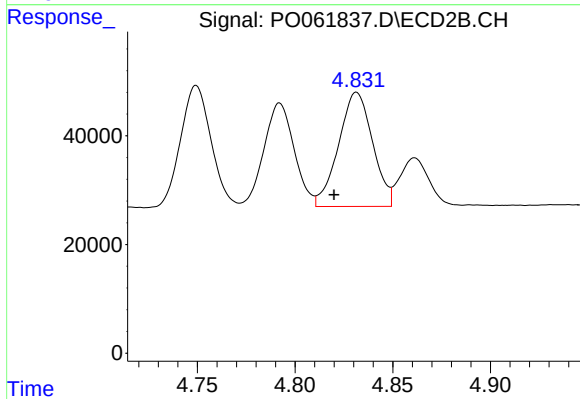
#21 AR-1248-1

R.T.: 4.580 min
Delta R.T.: -0.010 min
Response: 445195
Conc: 497.53 ng/ml



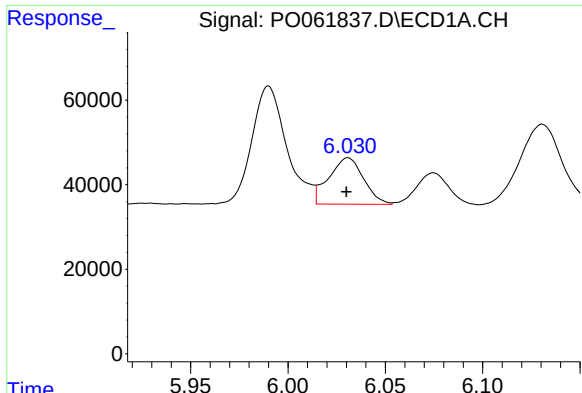
#22 AR-1248-2

R.T.: 5.831 min
Delta R.T.: 0.011 min
Response: 311322
Conc: 184.52 ng/ml



#22 AR-1248-2

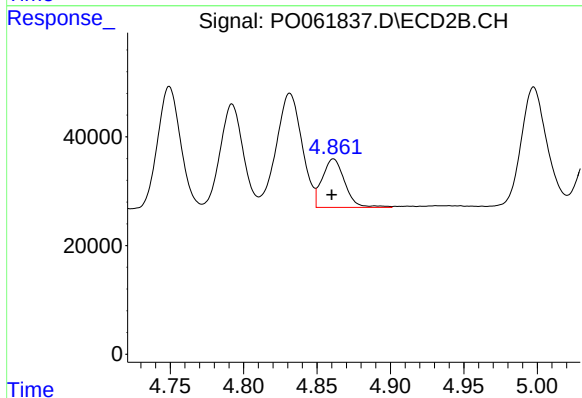
R.T.: 4.831 min
Delta R.T.: 0.011 min
Response: 255320
Conc: 216.69 ng/ml



#23 AR-1248-3

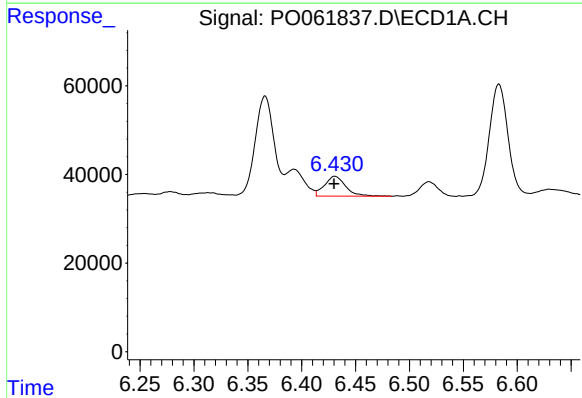
R.T.: 6.031 min
Delta R.T.: 0.000 min
Response: 136778
Conc: 73.19 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



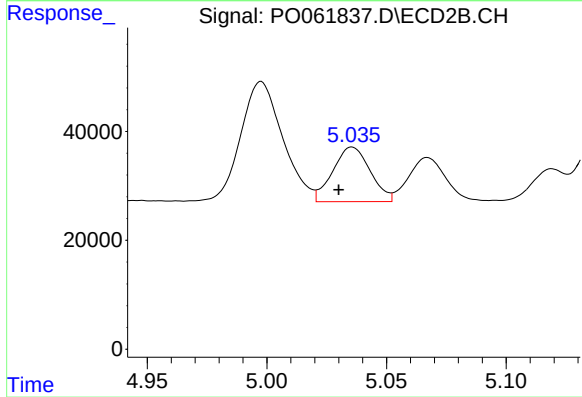
#23 AR-1248-3

R.T.: 4.861 min
Delta R.T.: 0.001 min
Response: 95320
Conc: 76.79 ng/ml



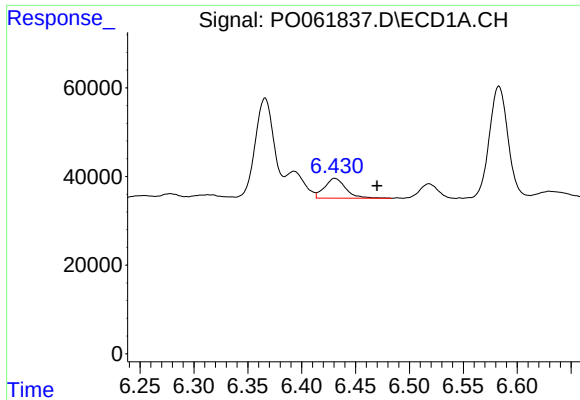
#24 AR-1248-4

R.T.: 6.431 min
Delta R.T.: 0.000 min
Response: 61540
Conc: 26.04 ng/ml



#24 AR-1248-4

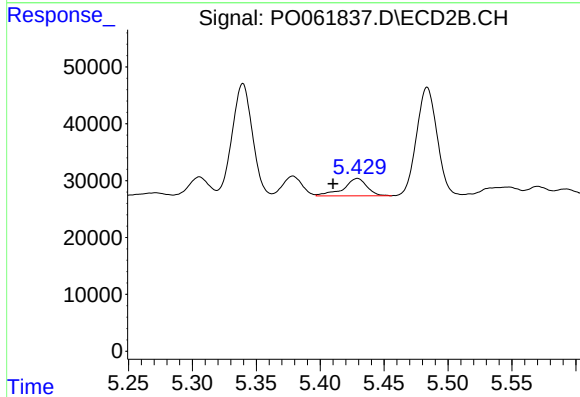
R.T.: 5.036 min
Delta R.T.: 0.006 min
Response: 109080
Conc: 72.56 ng/ml



#25 AR-1248-5

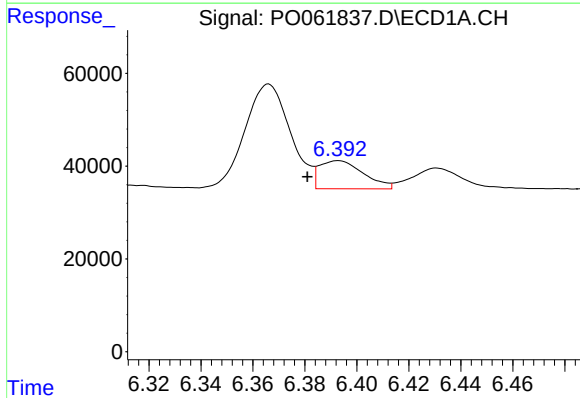
R.T.: 6.431 min
Delta R.T.: -0.039 min
Response: 61540
Conc: 27.14 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



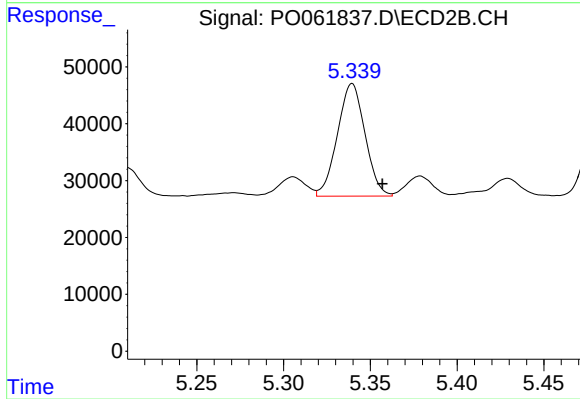
#25 AR-1248-5

R.T.: 5.429 min
Delta R.T.: 0.019 min
Response: 39643
Conc: 25.84 ng/ml



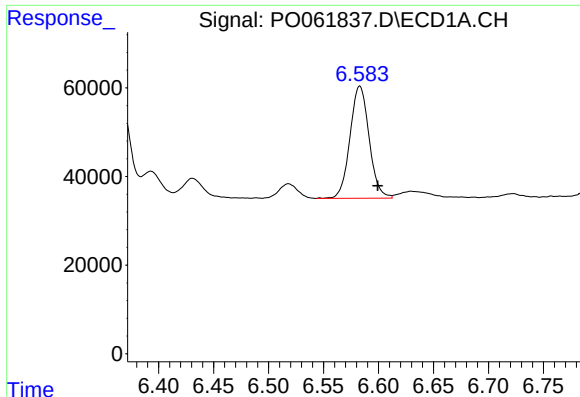
#26 AR-1254-1

R.T.: 6.393 min
Delta R.T.: 0.012 min
Response: 71349
Conc: 31.27 ng/ml



#26 AR-1254-1

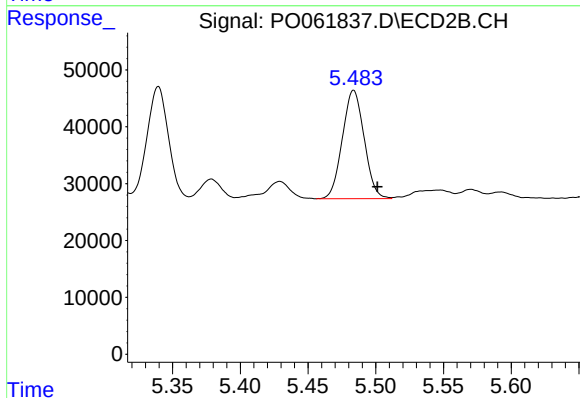
R.T.: 5.340 min
Delta R.T.: -0.018 min
Response: 219460
Conc: 100.06 ng/ml



#27 AR-1254-2

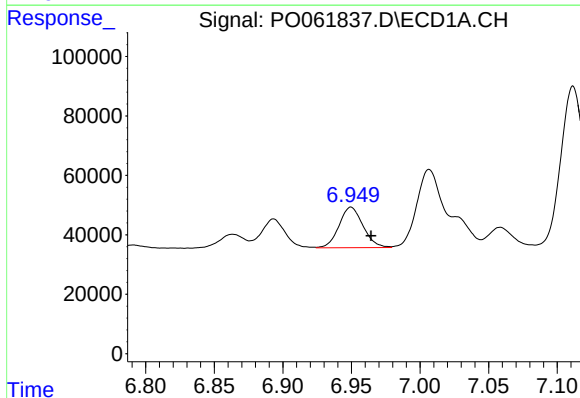
R.T.: 6.583 min
Delta R.T.: -0.016 min
Response: 306260
Conc: 84.76 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



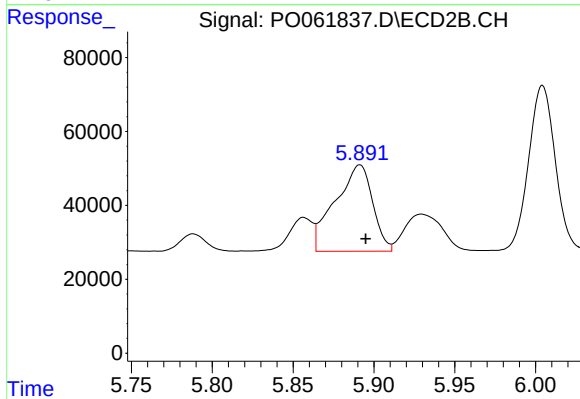
#27 AR-1254-2

R.T.: 5.484 min
Delta R.T.: -0.018 min
Response: 214005
Conc: 109.16 ng/ml



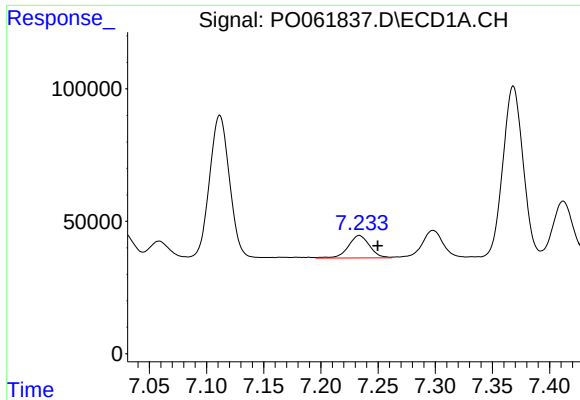
#28 AR-1254-3

R.T.: 6.950 min
Delta R.T.: -0.015 min
Response: 166604
Conc: 42.64 ng/ml



#28 AR-1254-3

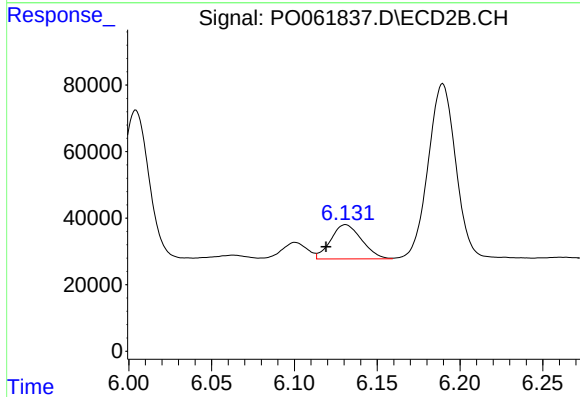
R.T.: 5.891 min
Delta R.T.: -0.004 min
Response: 377059
Conc: 118.43 ng/ml



#29 AR-1254-4

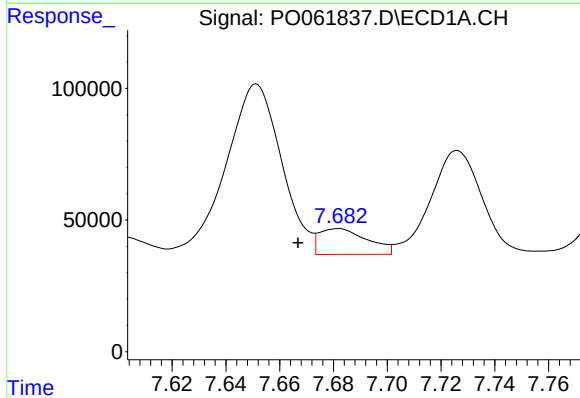
R.T.: 7.234 min
Delta R.T.: -0.016 min
Response: 110698
Conc: 36.55 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



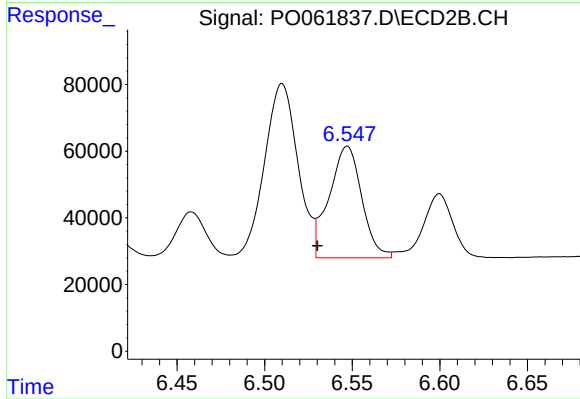
#29 AR-1254-4

R.T.: 6.131 min
Delta R.T.: 0.012 min
Response: 134116
Conc: 66.10 ng/ml



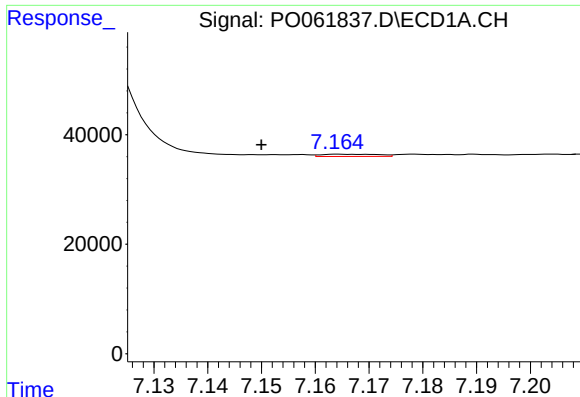
#30 AR-1254-5

R.T.: 7.682 min
Delta R.T.: 0.015 min
Response: 122099
Conc: 38.88 ng/ml



#30 AR-1254-5

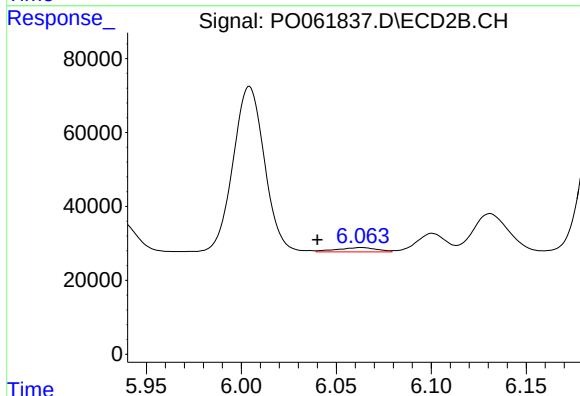
R.T.: 6.547 min
Delta R.T.: 0.017 min
Response: 434069
Conc: 153.46 ng/ml



#31 AR-1260-1

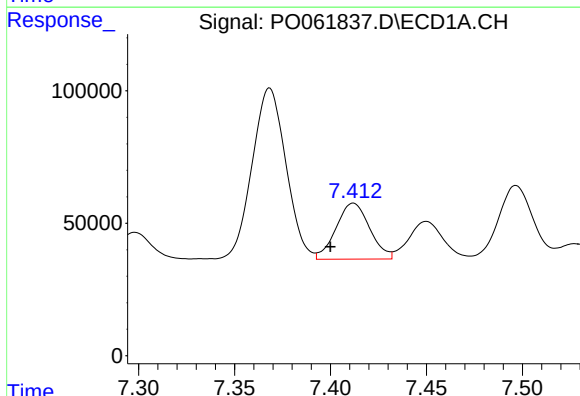
R.T.: 7.165 min
Delta R.T.: 0.015 min
Response: 2943
Conc: 1.13 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



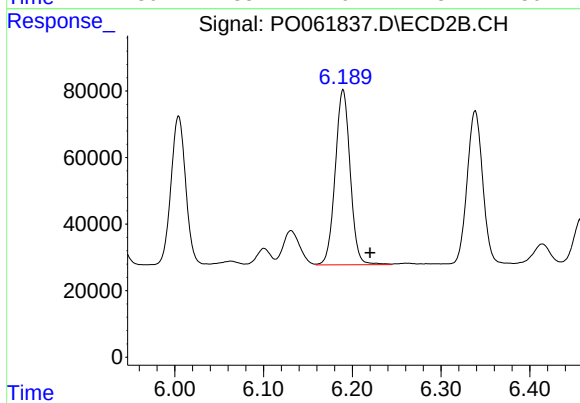
#31 AR-1260-1

R.T.: 6.063 min
Delta R.T.: 0.023 min
Response: 17112
Conc: 8.39 ng/ml



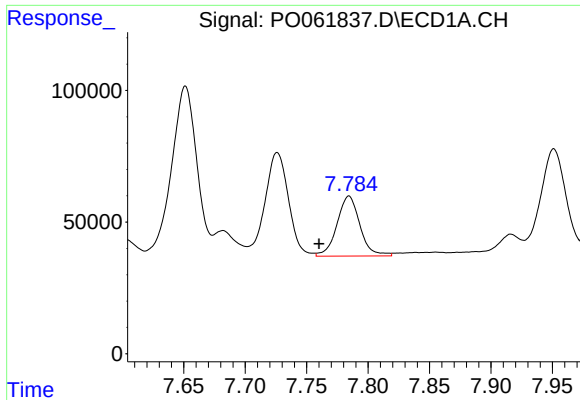
#32 AR-1260-2

R.T.: 7.412 min
Delta R.T.: 0.012 min
Response: 258861
Conc: 81.20 ng/ml



#32 AR-1260-2

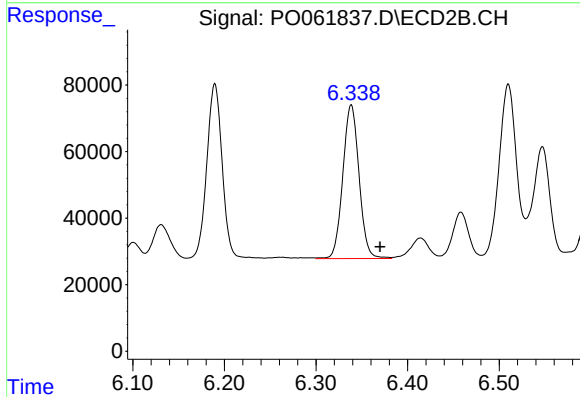
R.T.: 6.190 min
Delta R.T.: -0.030 min
Response: 616981
Conc: 256.89 ng/ml



#33 AR-1260-3

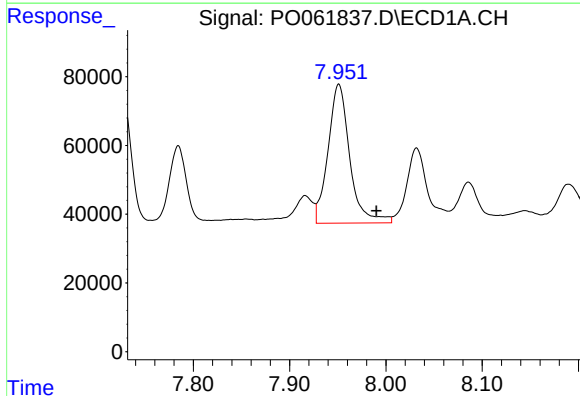
R.T.: 7.784 min
Delta R.T.: 0.024 min
Response: 296321
Conc: 123.37 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



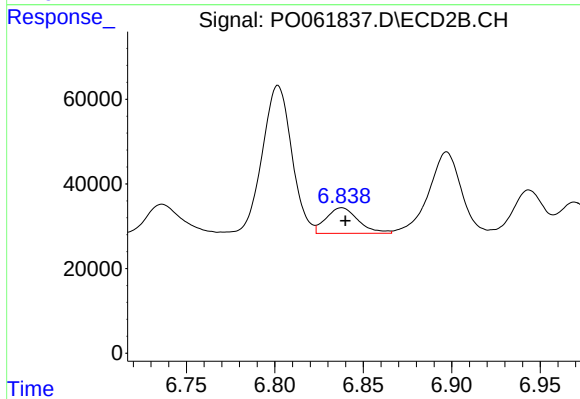
#33 AR-1260-3

R.T.: 6.338 min
Delta R.T.: -0.032 min
Response: 568140
Conc: 252.16 ng/ml



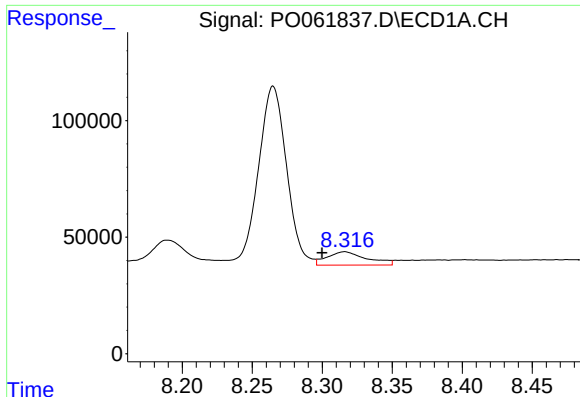
#34 AR-1260-4

R.T.: 7.951 min
Delta R.T.: -0.039 min
Response: 633967
Conc: 237.26 ng/ml



#34 AR-1260-4

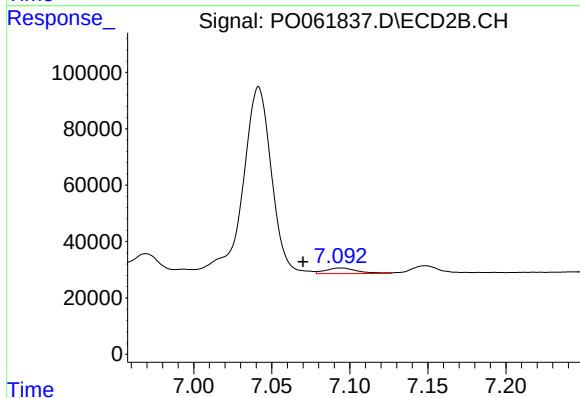
R.T.: 6.838 min
Delta R.T.: -0.002 min
Response: 76670
Conc: 41.53 ng/ml



#35 AR-1260-5

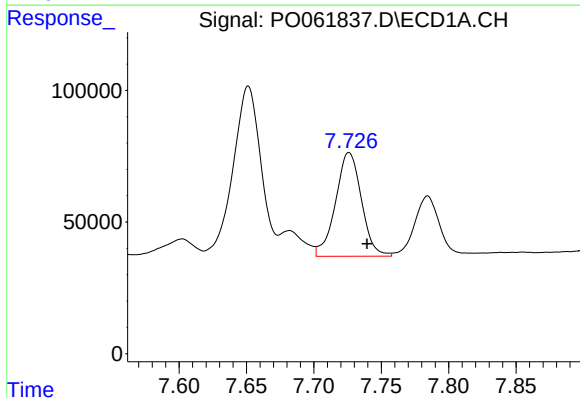
R.T.: 8.316 min
Delta R.T.: 0.016 min
Response: 112706
Conc: 22.78 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



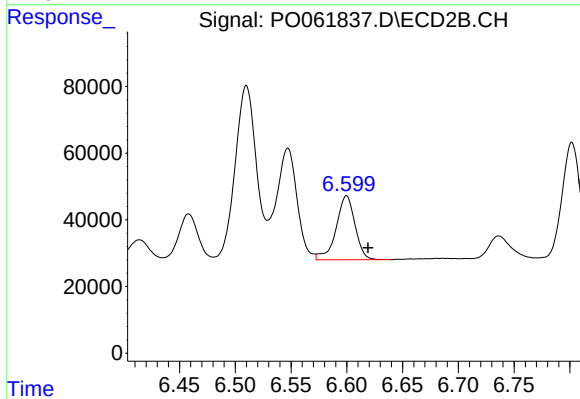
#35 AR-1260-5

R.T.: 7.094 min
Delta R.T.: 0.024 min
Response: 27553
Conc: 7.08 ng/ml



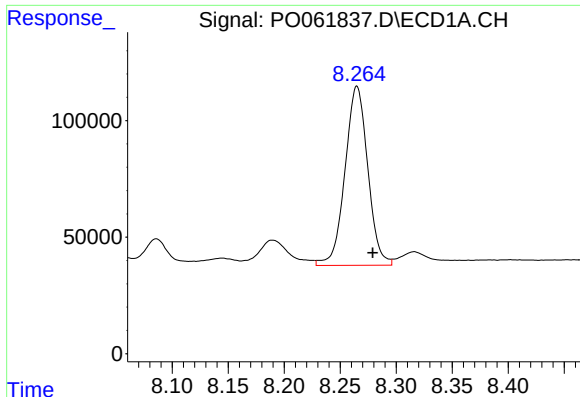
#36 AR-1262-1

R.T.: 7.726 min
Delta R.T.: -0.013 min
Response: 527941
Conc: 137.79 ng/ml



#36 AR-1262-1

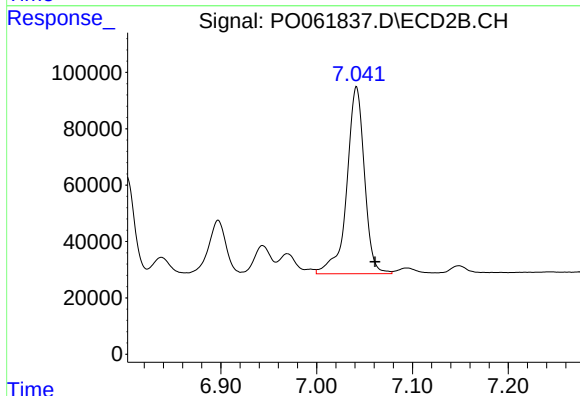
R.T.: 6.600 min
Delta R.T.: -0.019 min
Response: 226913
Conc: 185.90 ng/ml



#37 AR-1262-2

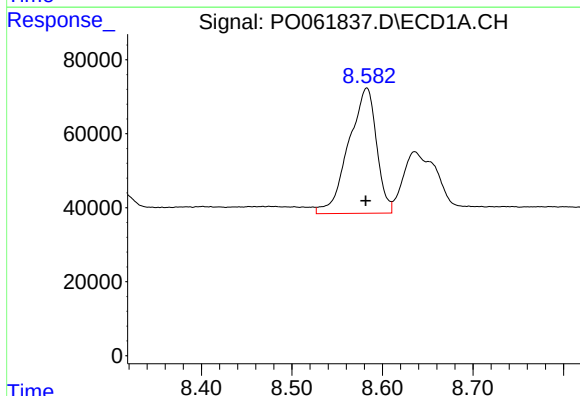
R.T.: 8.265 min
Delta R.T.: -0.014 min
Response: 1087384
Conc: 175.16 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



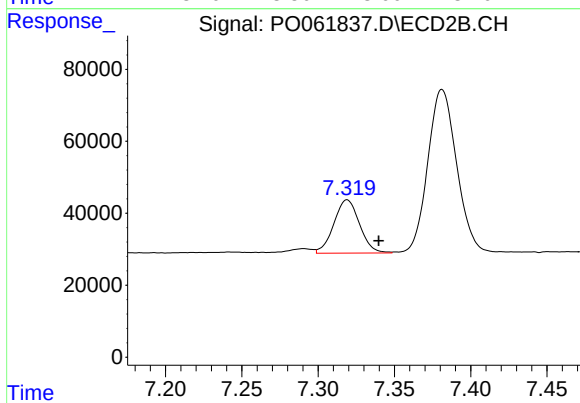
#37 AR-1262-2

R.T.: 7.042 min
Delta R.T.: -0.019 min
Response: 847307
Conc: 184.28 ng/ml



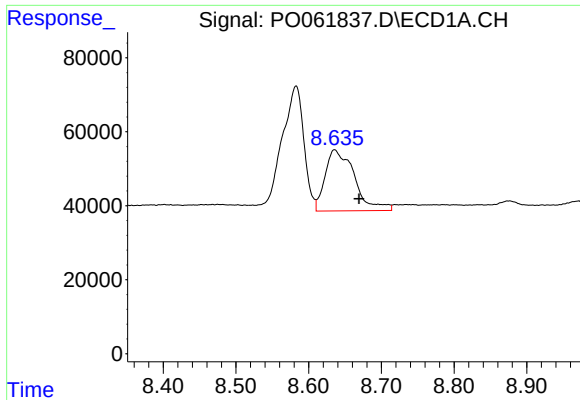
#38 AR-1262-3

R.T.: 8.583 min
Delta R.T.: 0.001 min
Response: 725058
Conc: 174.45 ng/ml



#38 AR-1262-3

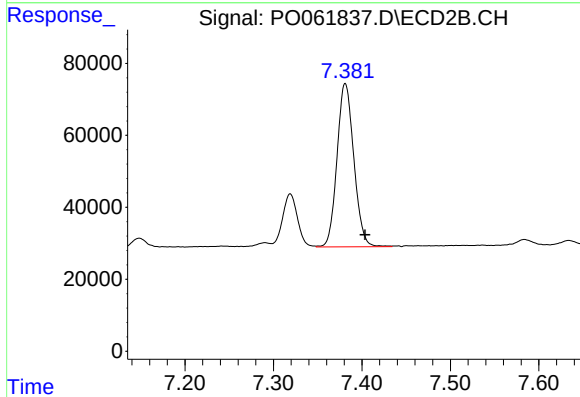
R.T.: 7.319 min
Delta R.T.: -0.021 min
Response: 173667
Conc: 92.19 ng/ml



#39 AR-1262-4

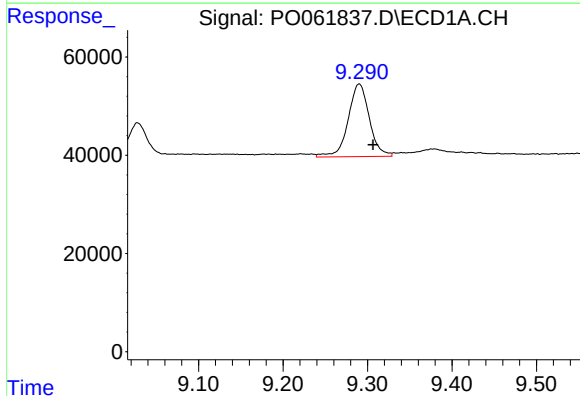
R.T.: 8.636 min
Delta R.T.: -0.034 min
Response: 462661
Conc: 146.56 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



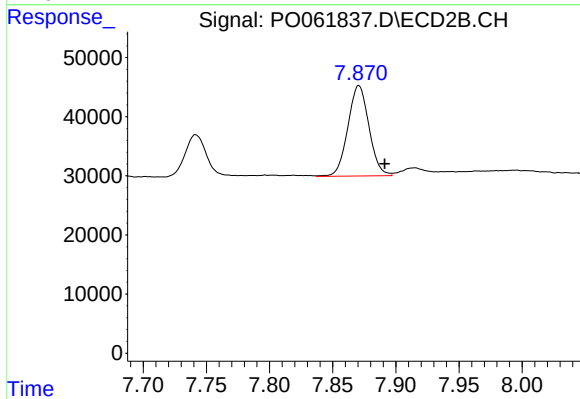
#39 AR-1262-4

R.T.: 7.381 min
Delta R.T.: -0.022 min
Response: 600001
Conc: 178.53 ng/ml



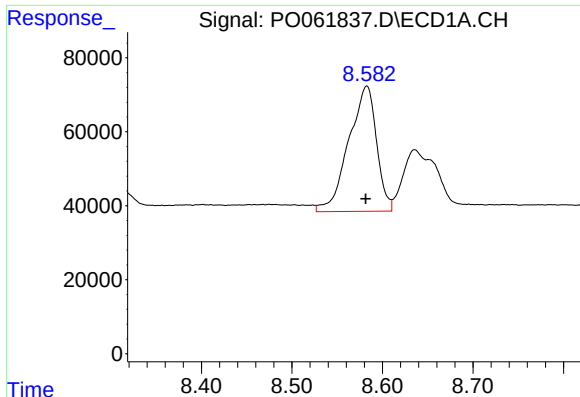
#40 AR-1262-5

R.T.: 9.290 min
Delta R.T.: -0.016 min
Response: 257572
Conc: 126.66 ng/ml



#40 AR-1262-5

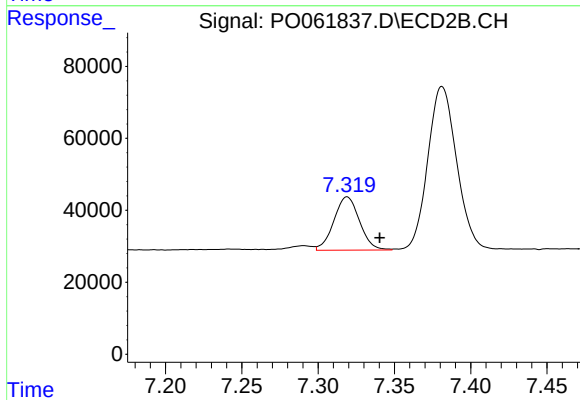
R.T.: 7.871 min
Delta R.T.: -0.021 min
Response: 178132
Conc: 117.50 ng/ml



#41 AR-1268-1

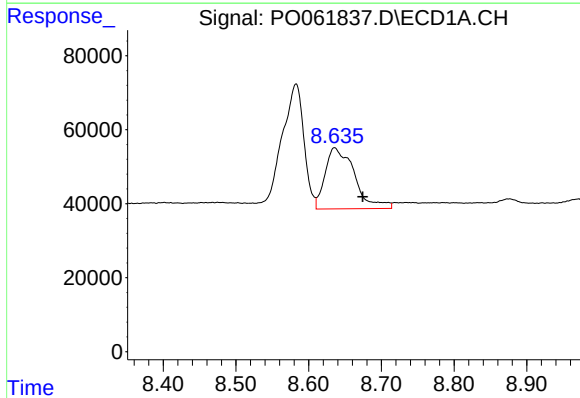
R.T.: 8.583 min
Delta R.T.: 0.001 min
Response: 725058
Conc: 107.82 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



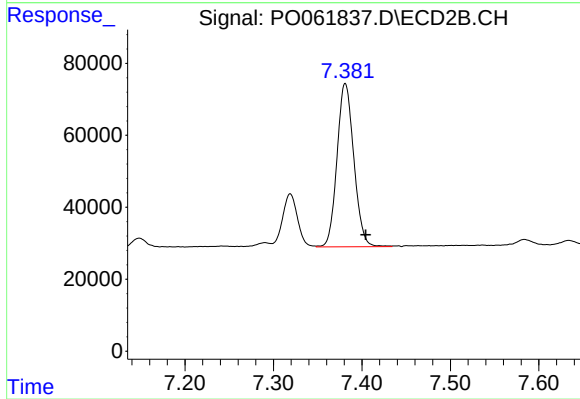
#41 AR-1268-1

R.T.: 7.319 min
Delta R.T.: -0.021 min
Response: 173667
Conc: 35.96 ng/ml



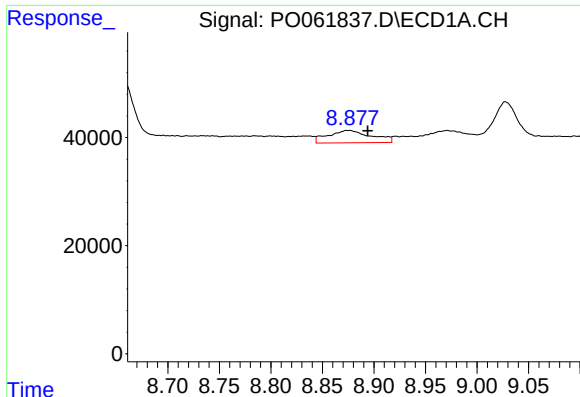
#42 AR-1268-2

R.T.: 8.636 min
Delta R.T.: -0.039 min
Response: 462661
Conc: 74.71 ng/ml



#42 AR-1268-2

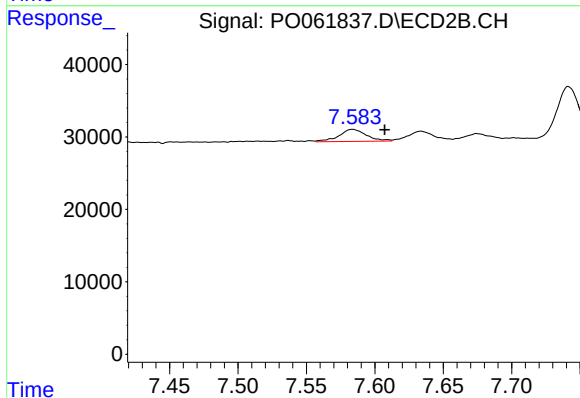
R.T.: 7.381 min
Delta R.T.: -0.023 min
Response: 600001
Conc: 139.22 ng/ml



#43 AR-1268-3

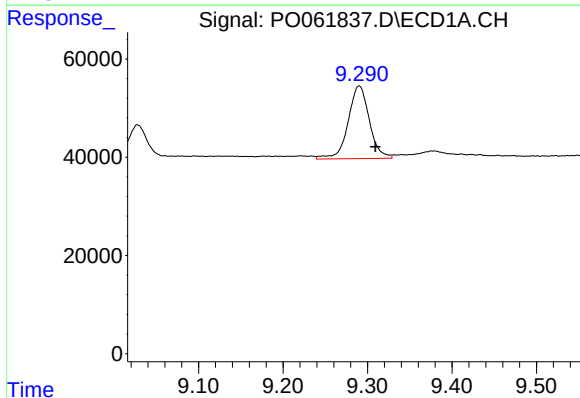
R.T.: 8.876 min
Delta R.T.: -0.018 min
Response: 67081
Conc: 13.12 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



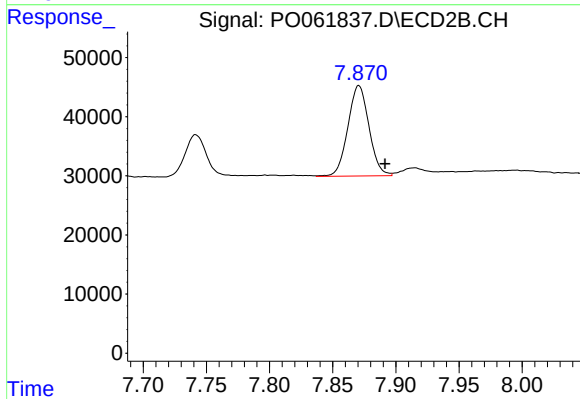
#43 AR-1268-3

R.T.: 7.584 min
Delta R.T.: -0.024 min
Response: 23501
Conc: 6.56 ng/ml



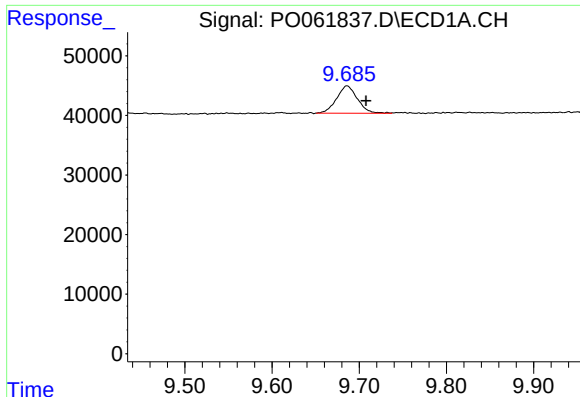
#44 AR-1268-4

R.T.: 9.290 min
Delta R.T.: -0.019 min
Response: 257572
Conc: 117.80 ng/ml



#44 AR-1268-4

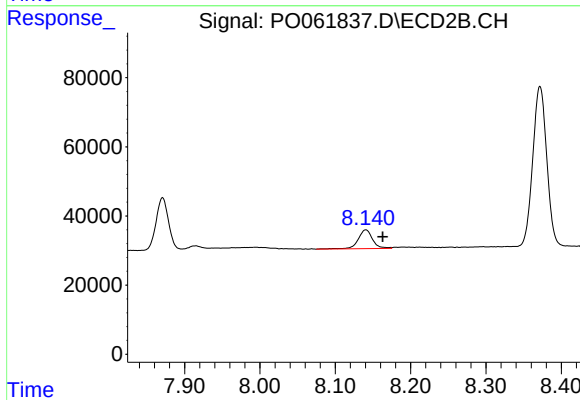
R.T.: 7.871 min
Delta R.T.: -0.021 min
Response: 178132
Conc: 110.68 ng/ml



#45 AR-1268-5

R.T.: 9.686 min
Delta R.T.: -0.022 min
Response: 76289
Conc: 5.08 ng/ml

Instrument :
ECD_O
ClientSampleId :
TP-1-SMSD



#45 AR-1268-5

R.T.: 8.141 min
Delta R.T.: -0.023 min
Response: 71914
Conc: 7.15 ng/ml