

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_0\Data\P0051122\
 Data File : P0085969.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 12 May 2022 15:28
 Operator : YP\AJ
 Sample : P0051122ICV
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_0
 ClientSampleId :
 ICVPO051122

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 13 07:02:38 2022
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_0\methods\P0051122.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Thu May 12 05:35:26 2022
 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...	4.481	3.682	4996107	2047213	49.198	46.973
2)	SA Decachlor...	10.331	8.750	2636038	1666205	49.743	49.091
Target Compounds							
3)	L1 AR-1016-1	5.663	4.788	1613328	745893	504.815	477.597
4)	L1 AR-1016-2	5.685	4.807	2260427	999890	508.482	477.509
5)	L1 AR-1016-3	5.749	4.985	1402443	536827	511.480	485.655
6)	L1 AR-1016-4	5.847	5.028	1148039	442033	517.939	479.493
7)	L1 AR-1016-5	6.145	5.243	1095697	545972	528.791	483.524
8)	L2 AR-1221-1	4.685	3.901	177819	68488	145.236	133.186
9)	L2 AR-1221-2	4.779	3.989	260667	97498	285.558	252.989
10)	L2 AR-1221-3	4.856	4.067	915041	380398	339.531	313.237
11)	L3 AR-1232-1	4.856	4.067	915041	380398	446.985	411.666
12)	L3 AR-1232-2	5.392	4.807	1202497	999890	1276.843	1226.617
13)	L3 AR-1232-3	5.685	4.985	2260427	536827	1286.025	1300.162
14)	L3 AR-1232-4	5.847	5.070	1148039	533203	1319.705	1423.041
15)	L3 AR-1232-5	5.939	5.243	990684	545972	1496.030	1303.614
16)	L4 AR-1242-1	5.663	4.788	1613328	745893	593.493	564.714
17)	L4 AR-1242-2	5.685	4.807	2260427	999890	601.283	570.201
18)	L4 AR-1242-3	5.749	4.985	1402443	536827	596.932	570.896
19)	L4 AR-1242-4	5.847	5.070	1148039	533203	605.675	565.296
20)	L4 AR-1242-5	6.591	5.598	162319	388116	88.673	341.283 #
21)	L5 AR-1248-1	5.663	4.788	1613328	745893	798.734	768.164
22)	L5 AR-1248-2	5.939	5.028	990684	442033	367.217	332.352
23)	L5 AR-1248-3	6.145	5.070	1095697	533203	369.288	387.456
24)	L5 AR-1248-4	6.551	5.243	190530	545972	59.187	340.985 #
25)	L5 AR-1248-5	6.591	5.637	162319	58601	52.155	37.301 #
26)	L6 AR-1254-1	6.525	5.598	713220	388116	211.929	154.094 #
27)	L6 AR-1254-2	6.746	5.745	729510	357472	148.243	163.242
28)	L6 AR-1254-3	7.114	6.168	419122	837900	82.955	237.158 #
29)	L6 AR-1254-4	7.401	6.379	287354	97946	77.148	44.275 #
30)	L6 AR-1254-5	7.822	6.800	2170365	1261649	557.006	426.544
31)	L7 AR-1260-1	7.280	6.283	1570954	953619	519.081	489.960
32)	L7 AR-1260-2	7.539	6.470	1844095	1149302	509.772	488.998
33)	L7 AR-1260-3	7.900	6.626	1441974	1054507	522.454	490.407
34)	L7 AR-1260-4	8.129	7.100	1738322	888717	515.213	493.558
35)	L7 AR-1260-5	8.456	7.340	3061756	2138035	496.175	493.565
36)	L8 AR-1262-1	7.900	6.839	1441974	951136	318.830	314.793
37)	L8 AR-1262-2	8.456	7.340	3061756	2138035	391.185	389.212
38)	L8 AR-1262-3	8.789	7.627	1928909	494554	588.805	234.615 #
39)	L8 AR-1262-4	8.865	7.689	568293	1557816	245.710	393.027 #
40)	L8 AR-1262-5	9.545	8.187	877111	559513	317.798	312.326
41)	L9 AR-1268-1	8.789	7.627	1928909	494554	220.940	81.050 #

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\P0051122\
Data File : P0085969.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 May 2022 15:28
Operator : YP\AJ
Sample : P0051122ICV
Misc :
ALS Vial : 3 Sample Multiplier: 1

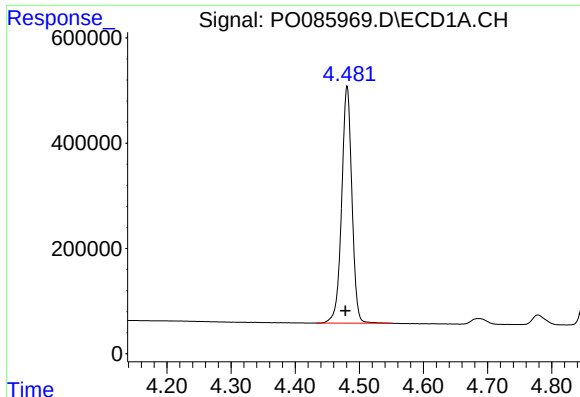
Instrument :
ECD_O
ClientSampleId :
ICVPO051122

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 13 07:02:38 2022
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\P0051122.M
Quant Title : GC EXTRACTABLES
QLast Update : Thu May 12 05:35:26 2022
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	8.865	7.689	568293	1557816	71.047	283.776 #
43)	L9 AR-1268-3	9.106	7.900	21349	20278	3.217	4.461 #
44)	L9 AR-1268-4	9.545	8.187	877111	559513	290.500	286.556
45)	L9 AR-1268-5	9.974	8.486	353709	149771	16.174	10.219 #

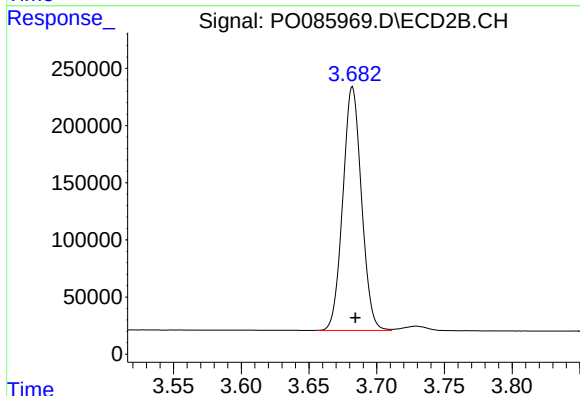
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



#1 Tetrachloro-m-xylene

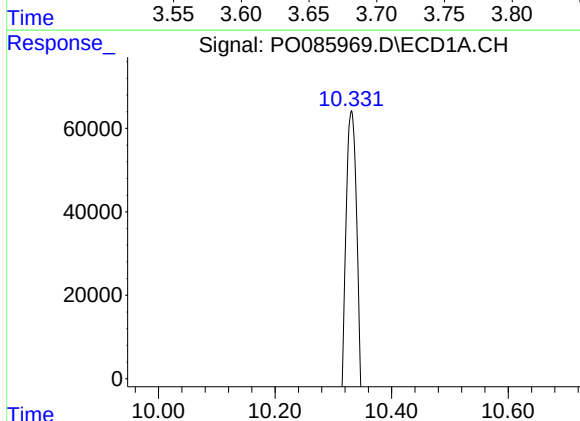
R.T.: 4.481 min
Delta R.T.: 0.003 min
Response: 4996107
Conc: 49.20 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



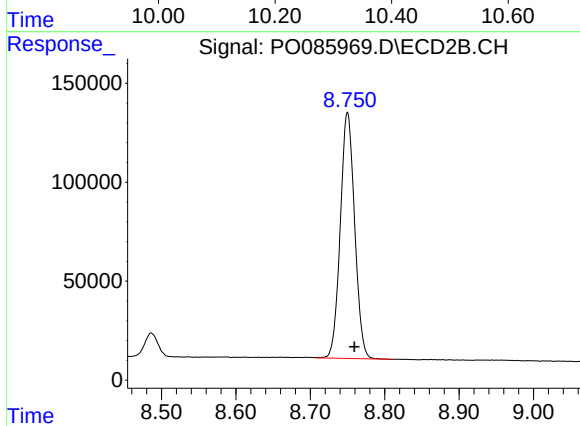
#1 Tetrachloro-m-xylene

R.T.: 3.682 min
Delta R.T.: -0.002 min
Response: 2047213
Conc: 46.97 ng/ml



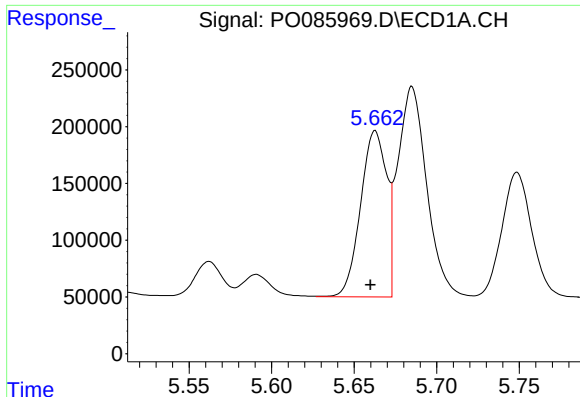
#2 Decachlorobiphenyl

R.T.: 10.331 min
Delta R.T.: 0.004 min
Response: 2636038
Conc: 49.74 ng/ml



#2 Decachlorobiphenyl

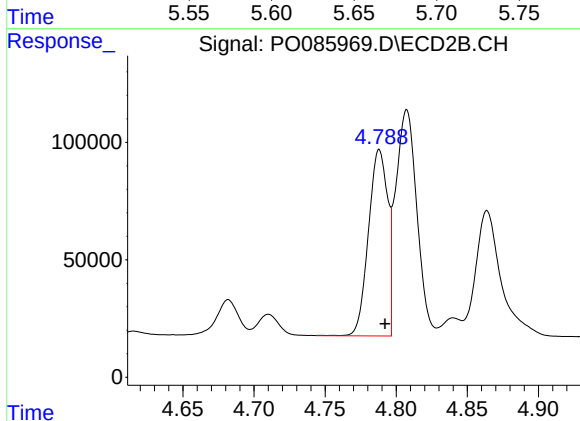
R.T.: 8.750 min
Delta R.T.: -0.009 min
Response: 1666205
Conc: 49.09 ng/ml



#3 AR-1016-1

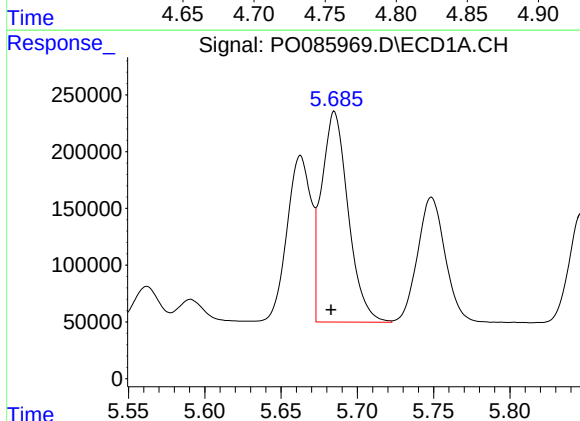
R.T.: 5.663 min
Delta R.T.: 0.003 min
Response: 1613328
Conc: 504.81 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



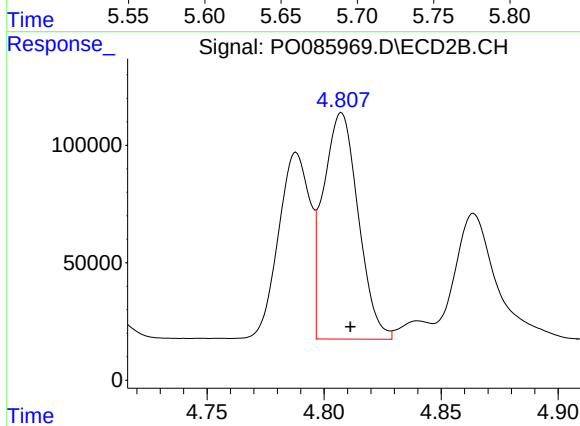
#3 AR-1016-1

R.T.: 4.788 min
Delta R.T.: -0.004 min
Response: 745893
Conc: 477.60 ng/ml



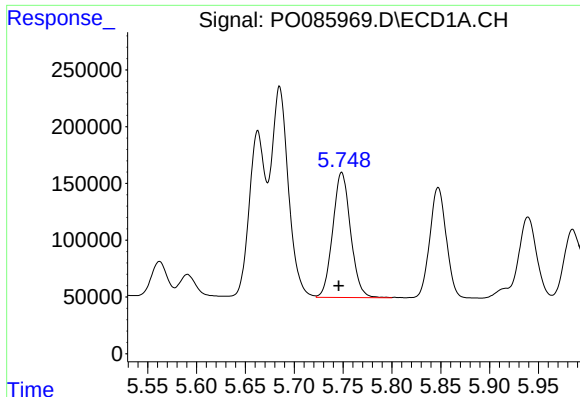
#4 AR-1016-2

R.T.: 5.685 min
Delta R.T.: 0.002 min
Response: 2260427
Conc: 508.48 ng/ml



#4 AR-1016-2

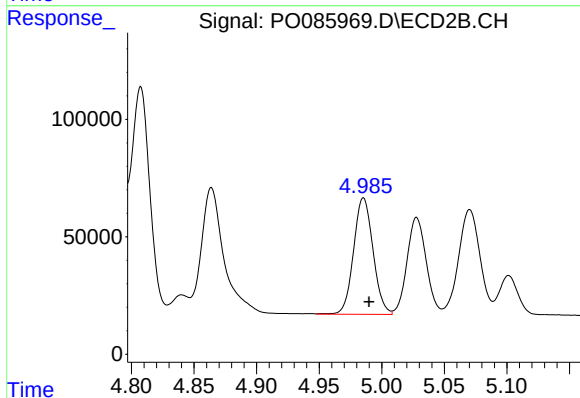
R.T.: 4.807 min
Delta R.T.: -0.004 min
Response: 999890
Conc: 477.51 ng/ml



#5 AR-1016-3

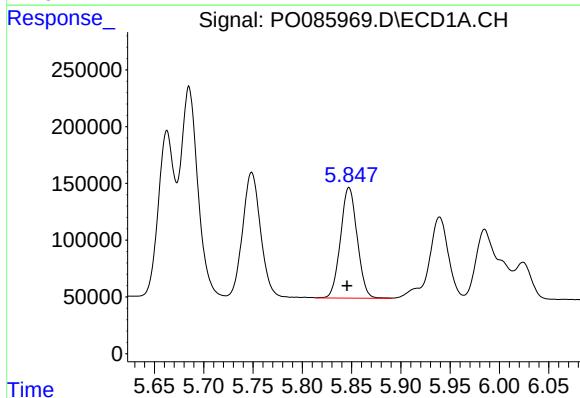
R.T.: 5.749 min
Delta R.T.: 0.003 min
Response: 1402443
Conc: 511.48 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



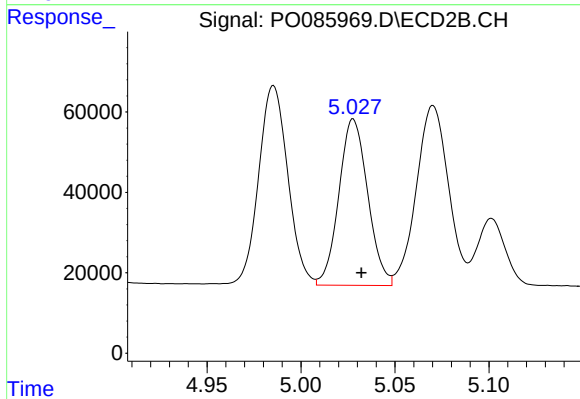
#5 AR-1016-3

R.T.: 4.985 min
Delta R.T.: -0.004 min
Response: 536827
Conc: 485.66 ng/ml



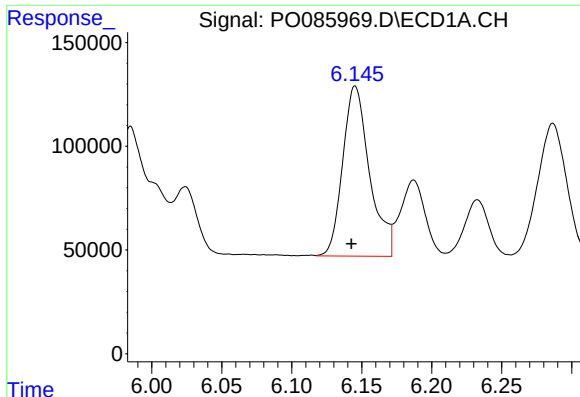
#6 AR-1016-4

R.T.: 5.847 min
Delta R.T.: 0.002 min
Response: 1148039
Conc: 517.94 ng/ml



#6 AR-1016-4

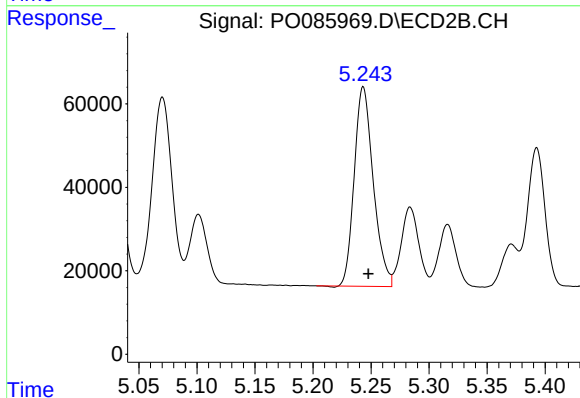
R.T.: 5.028 min
Delta R.T.: -0.004 min
Response: 442033
Conc: 479.49 ng/ml



#7 AR-1016-5

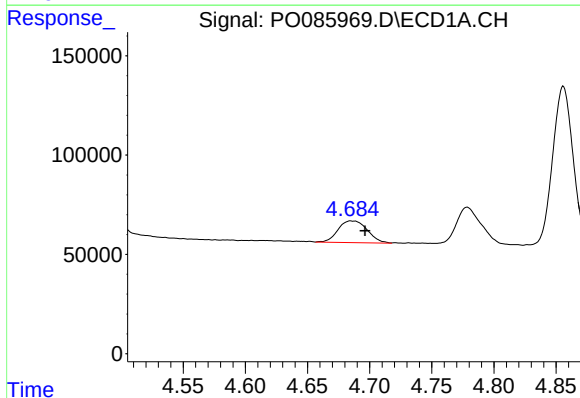
R.T.: 6.145 min
Delta R.T.: 0.003 min
Response: 1095697
Conc: 528.79 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



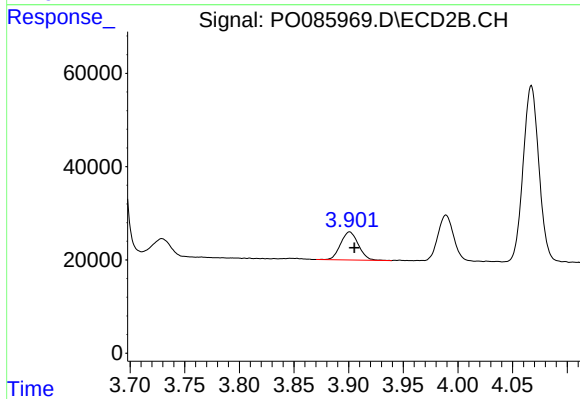
#7 AR-1016-5

R.T.: 5.243 min
Delta R.T.: -0.004 min
Response: 545972
Conc: 483.52 ng/ml



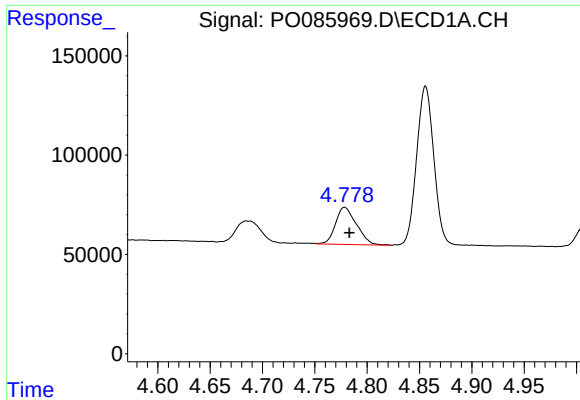
#8 AR-1221-1

R.T.: 4.685 min
Delta R.T.: -0.012 min
Response: 177819
Conc: 145.24 ng/ml



#8 AR-1221-1

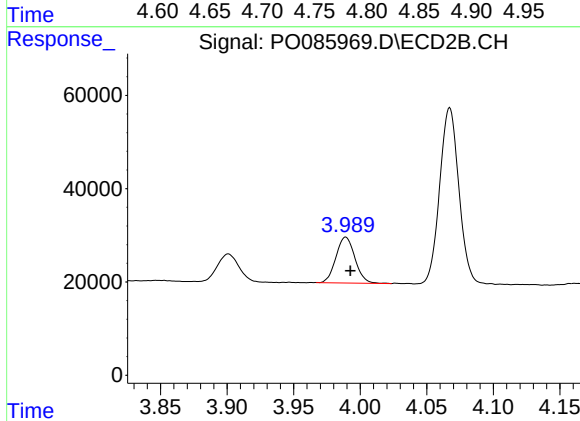
R.T.: 3.901 min
Delta R.T.: -0.004 min
Response: 68488
Conc: 133.19 ng/ml



#9 AR-1221-2

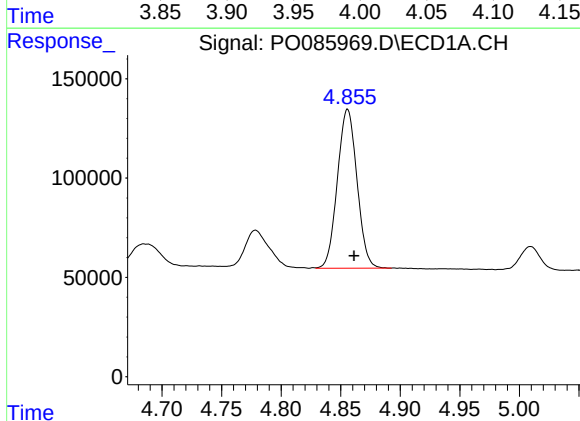
R.T.: 4.779 min
Delta R.T.: -0.005 min
Response: 260667
Conc: 285.56 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



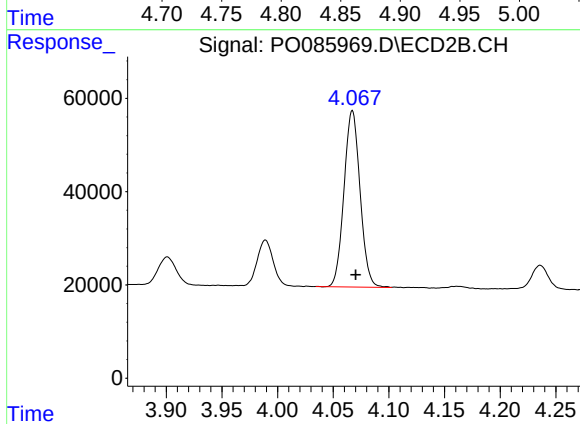
#9 AR-1221-2

R.T.: 3.989 min
Delta R.T.: -0.003 min
Response: 97498
Conc: 252.99 ng/ml



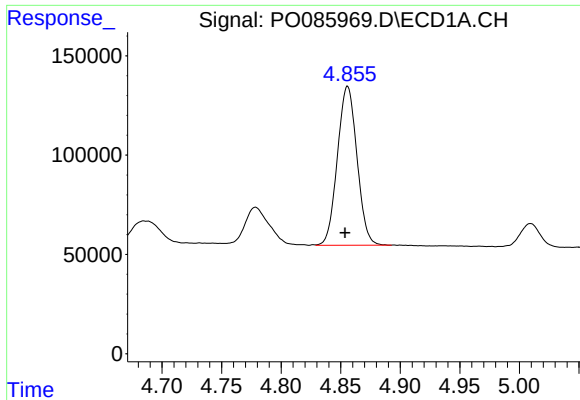
#10 AR-1221-3

R.T.: 4.856 min
Delta R.T.: -0.006 min
Response: 915041
Conc: 339.53 ng/ml



#10 AR-1221-3

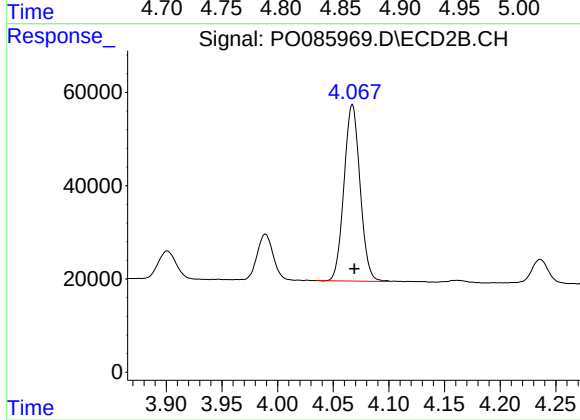
R.T.: 4.067 min
Delta R.T.: -0.003 min
Response: 380398
Conc: 313.24 ng/ml



#11 AR-1232-1

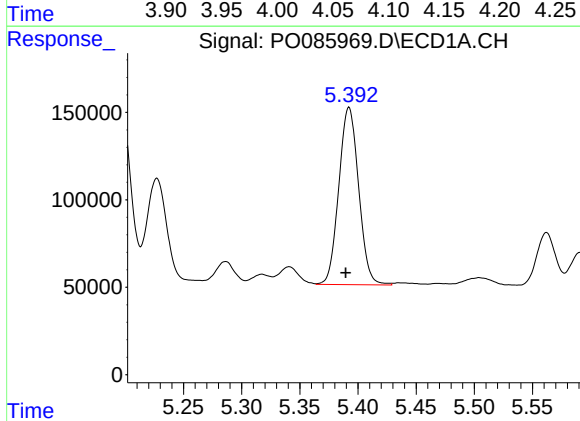
R.T.: 4.856 min
Delta R.T.: 0.002 min
Response: 915041
Conc: 446.99 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



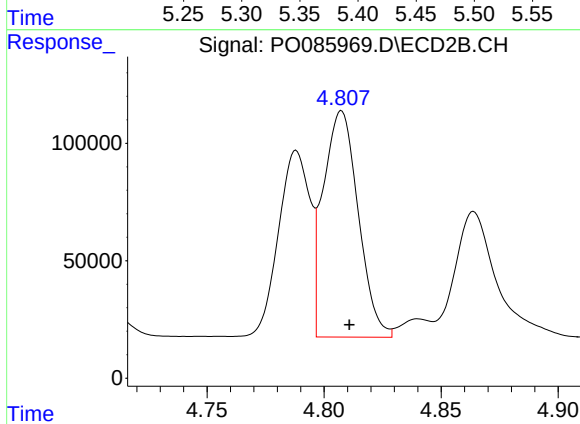
#11 AR-1232-1

R.T.: 4.067 min
Delta R.T.: -0.002 min
Response: 380398
Conc: 411.67 ng/ml



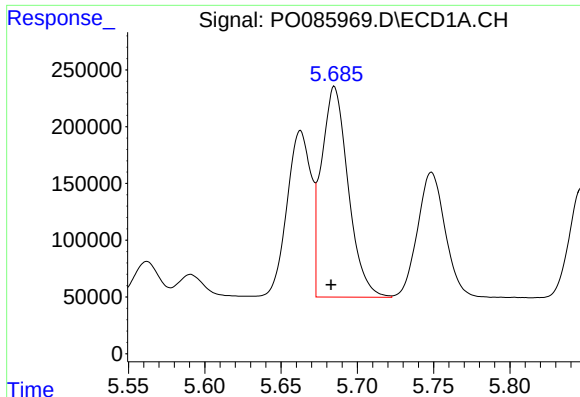
#12 AR-1232-2

R.T.: 5.392 min
Delta R.T.: 0.003 min
Response: 1202497
Conc: 1276.84 ng/ml



#12 AR-1232-2

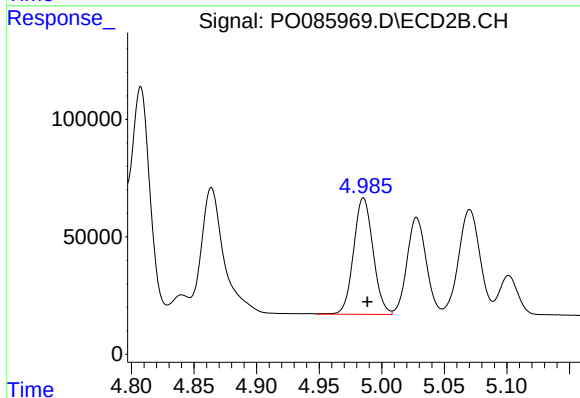
R.T.: 4.807 min
Delta R.T.: -0.003 min
Response: 999890
Conc: 1226.62 ng/ml



#13 AR-1232-3

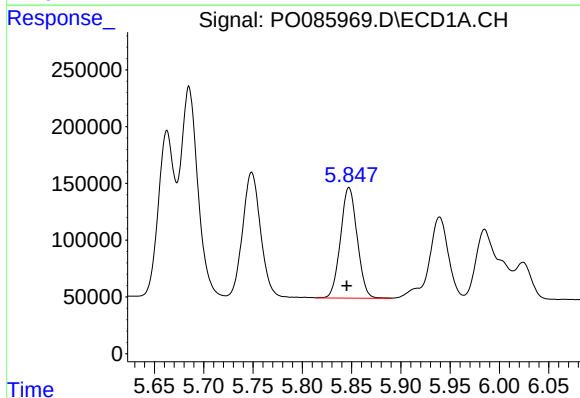
R.T.: 5.685 min
Delta R.T.: 0.002 min
Response: 2260427
Conc: 1286.03 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



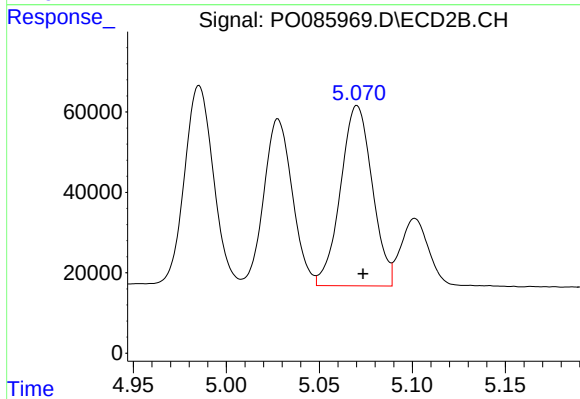
#13 AR-1232-3

R.T.: 4.985 min
Delta R.T.: -0.003 min
Response: 536827
Conc: 1300.16 ng/ml



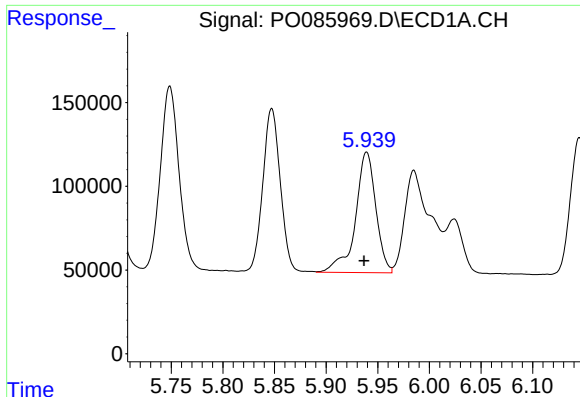
#14 AR-1232-4

R.T.: 5.847 min
Delta R.T.: 0.002 min
Response: 1148039
Conc: 1319.70 ng/ml



#14 AR-1232-4

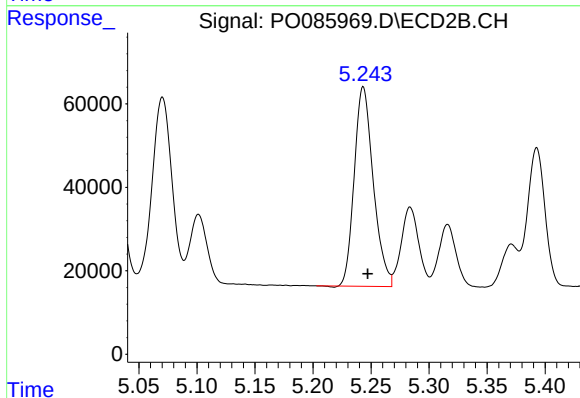
R.T.: 5.070 min
Delta R.T.: -0.003 min
Response: 533203
Conc: 1423.04 ng/ml



#15 AR-1232-5

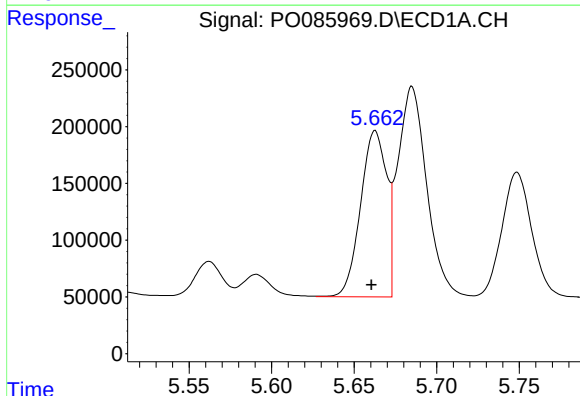
R.T.: 5.939 min
Delta R.T.: 0.003 min
Response: 990684
Conc: 1496.03 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



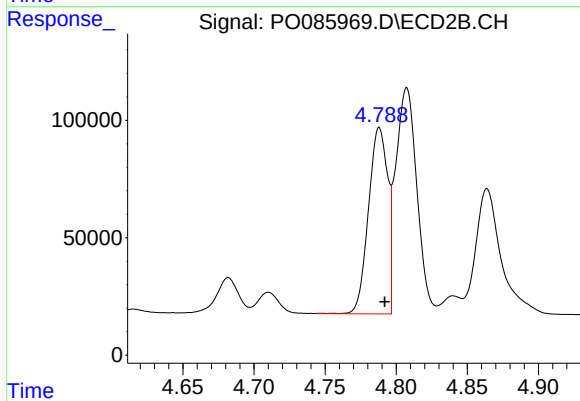
#15 AR-1232-5

R.T.: 5.243 min
Delta R.T.: -0.004 min
Response: 545972
Conc: 1303.61 ng/ml



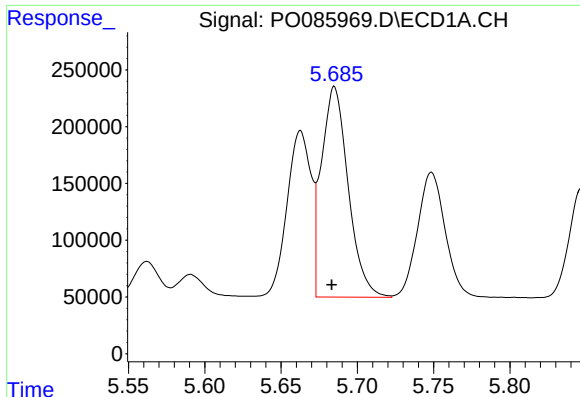
#16 AR-1242-1

R.T.: 5.663 min
Delta R.T.: 0.002 min
Response: 1613328
Conc: 593.49 ng/ml



#16 AR-1242-1

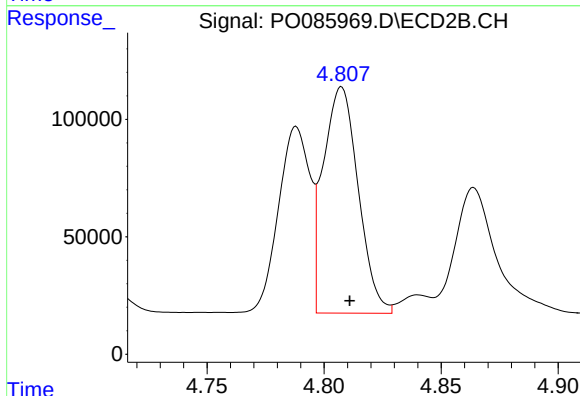
R.T.: 4.788 min
Delta R.T.: -0.004 min
Response: 745893
Conc: 564.71 ng/ml



#17 AR-1242-2

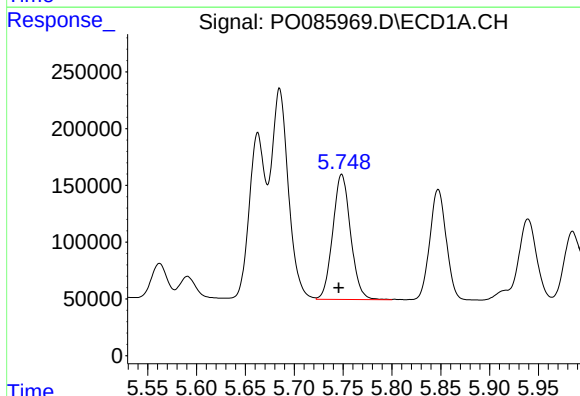
R.T.: 5.685 min
Delta R.T.: 0.002 min
Response: 2260427
Conc: 601.28 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



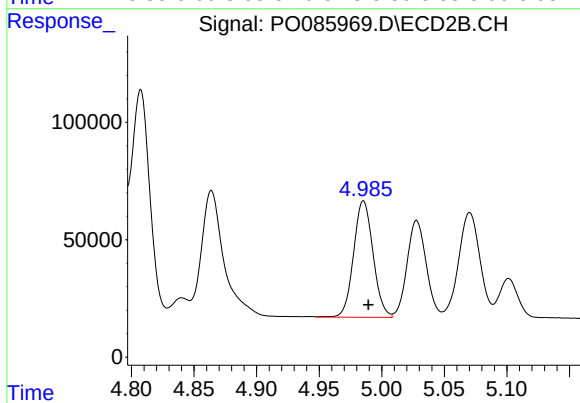
#17 AR-1242-2

R.T.: 4.807 min
Delta R.T.: -0.004 min
Response: 999890
Conc: 570.20 ng/ml



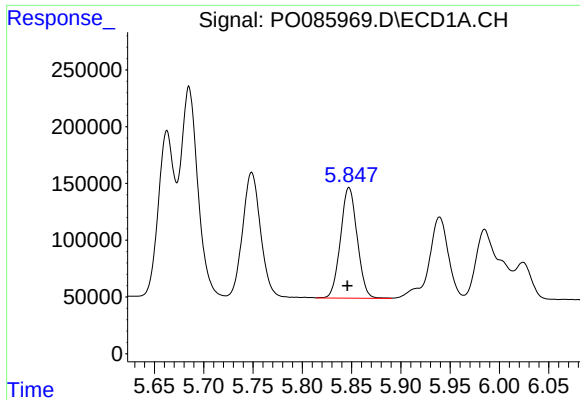
#18 AR-1242-3

R.T.: 5.749 min
Delta R.T.: 0.003 min
Response: 1402443
Conc: 596.93 ng/ml



#18 AR-1242-3

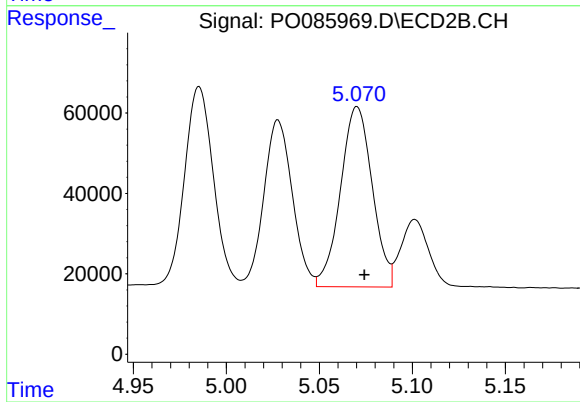
R.T.: 4.985 min
Delta R.T.: -0.004 min
Response: 536827
Conc: 570.90 ng/ml



#19 AR-1242-4

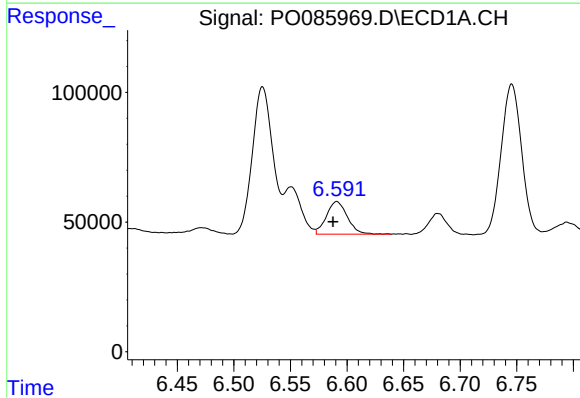
R.T.: 5.847 min
Delta R.T.: 0.002 min
Response: 1148039
Conc: 605.67 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



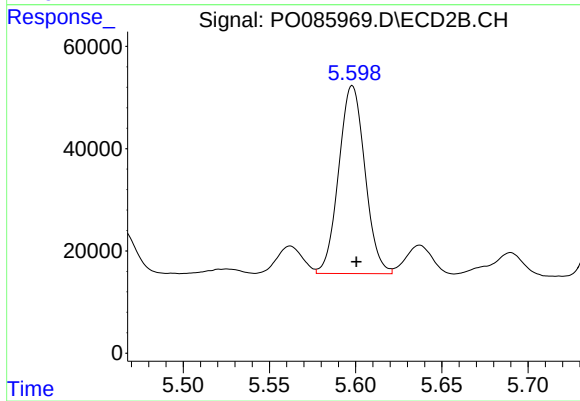
#19 AR-1242-4

R.T.: 5.070 min
Delta R.T.: -0.004 min
Response: 533203
Conc: 565.30 ng/ml



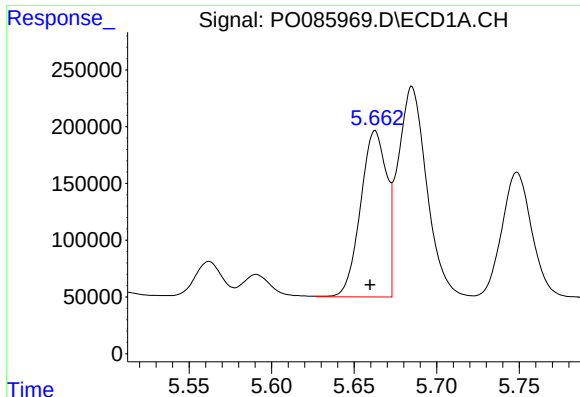
#20 AR-1242-5

R.T.: 6.591 min
Delta R.T.: 0.003 min
Response: 162319
Conc: 88.67 ng/ml



#20 AR-1242-5

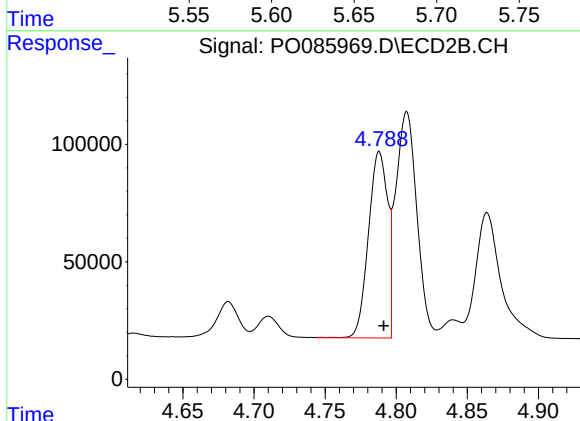
R.T.: 5.598 min
Delta R.T.: -0.002 min
Response: 388116
Conc: 341.28 ng/ml



#21 AR-1248-1

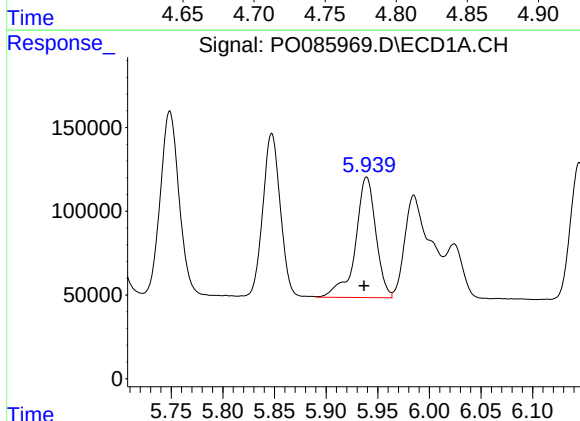
R.T.: 5.663 min
Delta R.T.: 0.003 min
Response: 1613328
Conc: 798.73 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



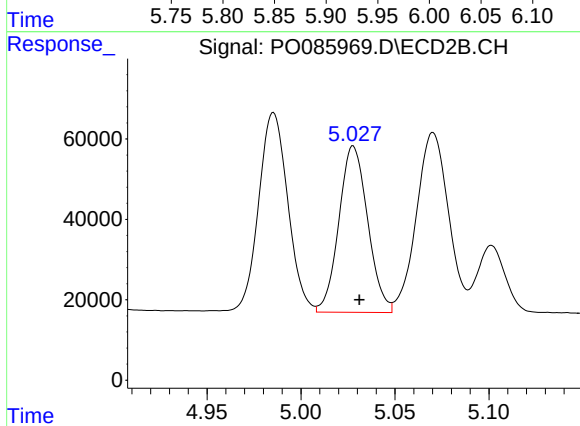
#21 AR-1248-1

R.T.: 4.788 min
Delta R.T.: -0.003 min
Response: 745893
Conc: 768.16 ng/ml



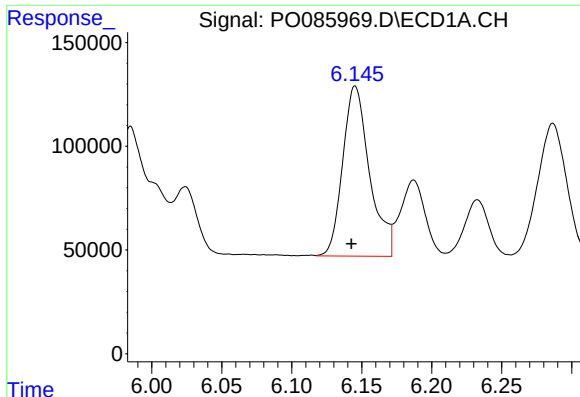
#22 AR-1248-2

R.T.: 5.939 min
Delta R.T.: 0.002 min
Response: 990684
Conc: 367.22 ng/ml



#22 AR-1248-2

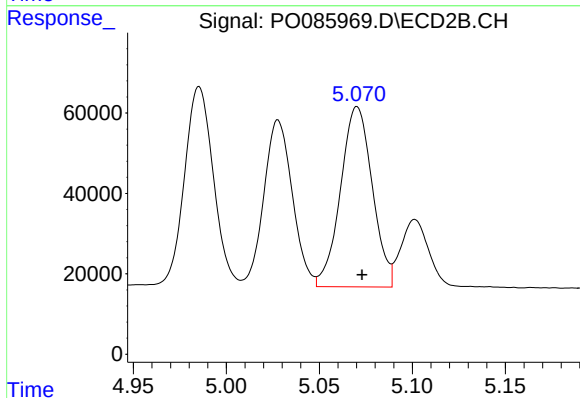
R.T.: 5.028 min
Delta R.T.: -0.003 min
Response: 442033
Conc: 332.35 ng/ml



#23 AR-1248-3

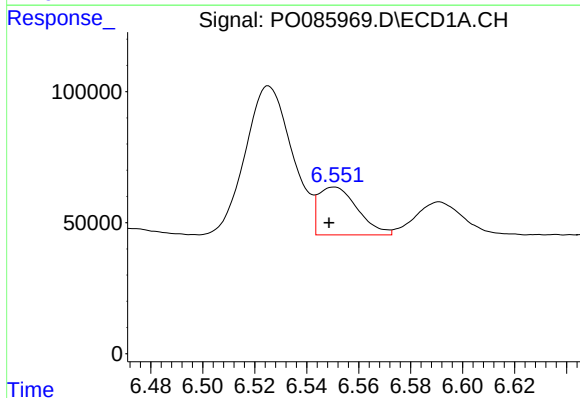
R.T.: 6.145 min
Delta R.T.: 0.003 min
Response: 1095697
Conc: 369.29 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



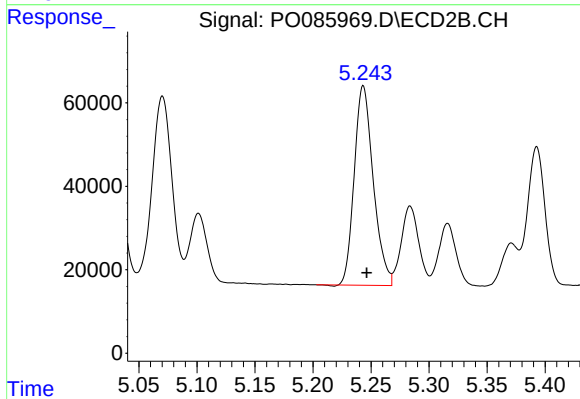
#23 AR-1248-3

R.T.: 5.070 min
Delta R.T.: -0.003 min
Response: 533203
Conc: 387.46 ng/ml



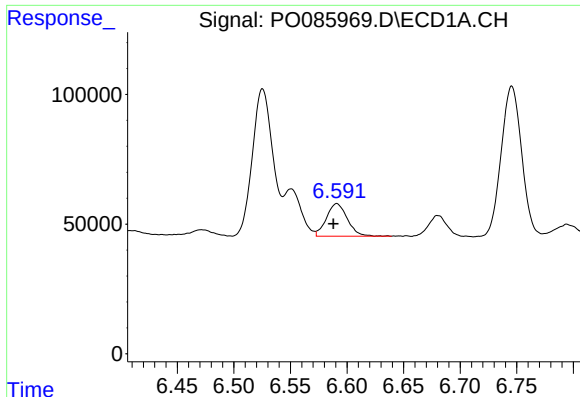
#24 AR-1248-4

R.T.: 6.551 min
Delta R.T.: 0.002 min
Response: 190530
Conc: 59.19 ng/ml



#24 AR-1248-4

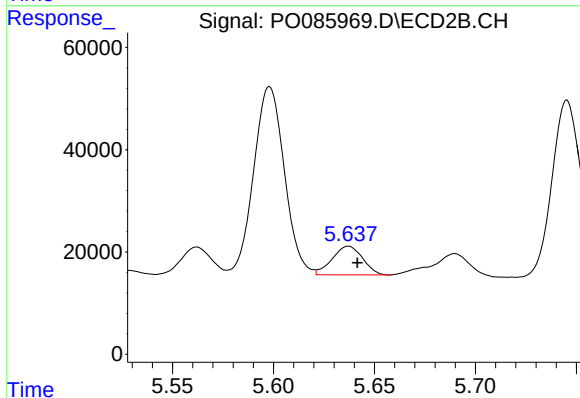
R.T.: 5.243 min
Delta R.T.: -0.003 min
Response: 545972
Conc: 340.99 ng/ml



#25 AR-1248-5

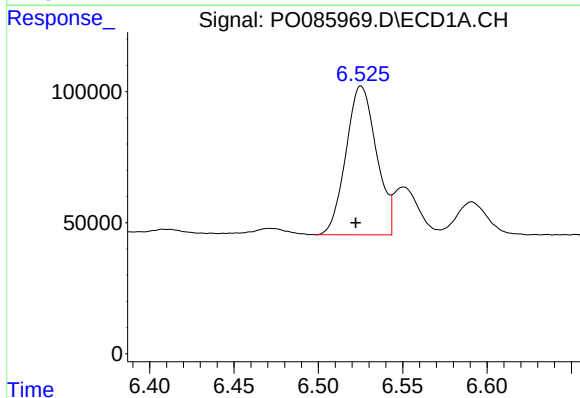
R.T.: 6.591 min
Delta R.T.: 0.003 min
Response: 162319
Conc: 52.15 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



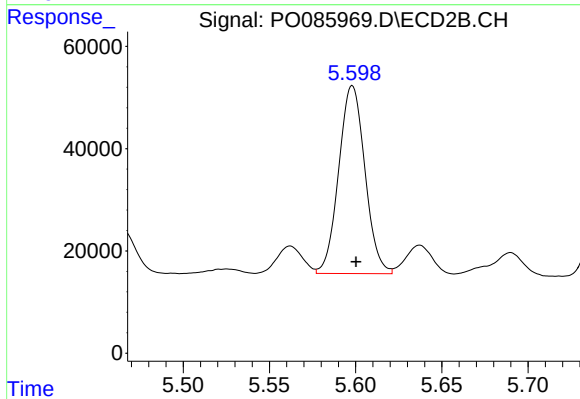
#25 AR-1248-5

R.T.: 5.637 min
Delta R.T.: -0.004 min
Response: 58601
Conc: 37.30 ng/ml



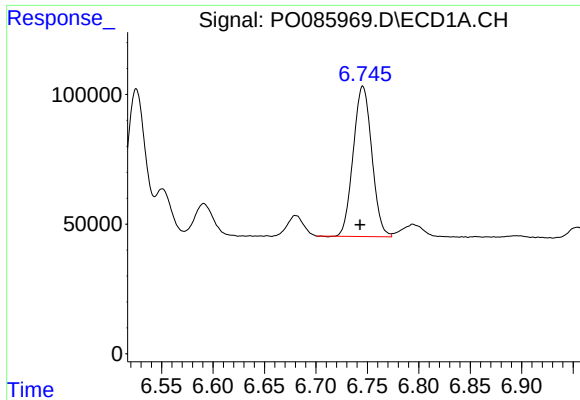
#26 AR-1254-1

R.T.: 6.525 min
Delta R.T.: 0.003 min
Response: 713220
Conc: 211.93 ng/ml



#26 AR-1254-1

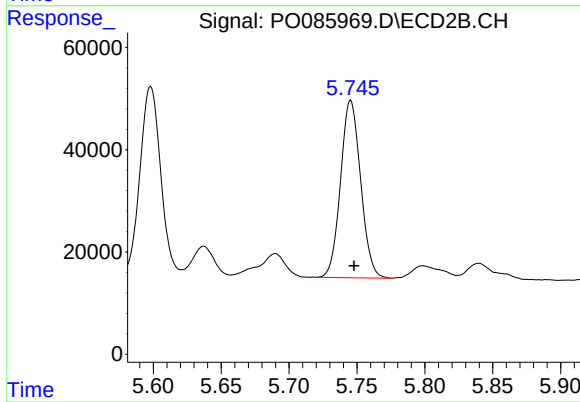
R.T.: 5.598 min
Delta R.T.: -0.002 min
Response: 388116
Conc: 154.09 ng/ml



#27 AR-1254-2

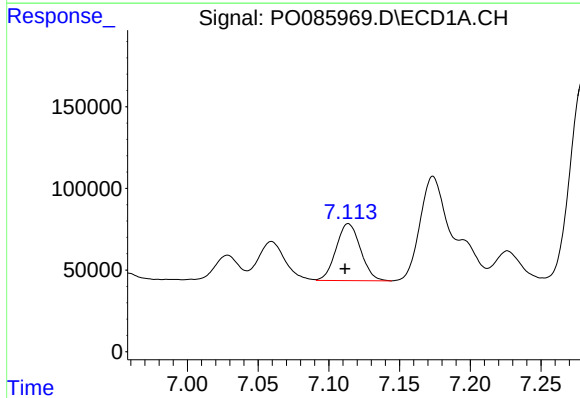
R.T.: 6.746 min
Delta R.T.: 0.003 min
Response: 729510
Conc: 148.24 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



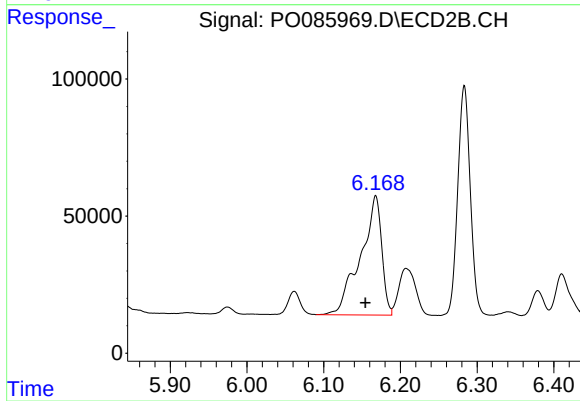
#27 AR-1254-2

R.T.: 5.745 min
Delta R.T.: -0.003 min
Response: 357472
Conc: 163.24 ng/ml



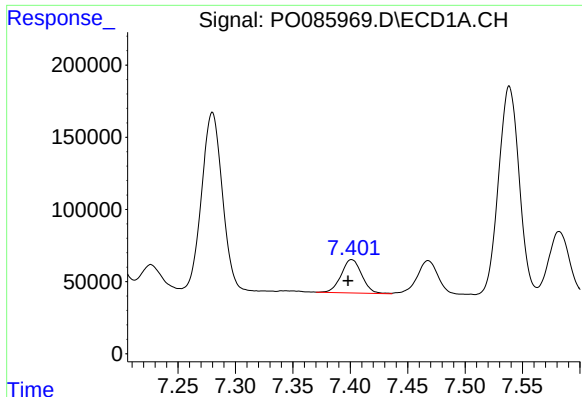
#28 AR-1254-3

R.T.: 7.114 min
Delta R.T.: 0.002 min
Response: 419122
Conc: 82.96 ng/ml



#28 AR-1254-3

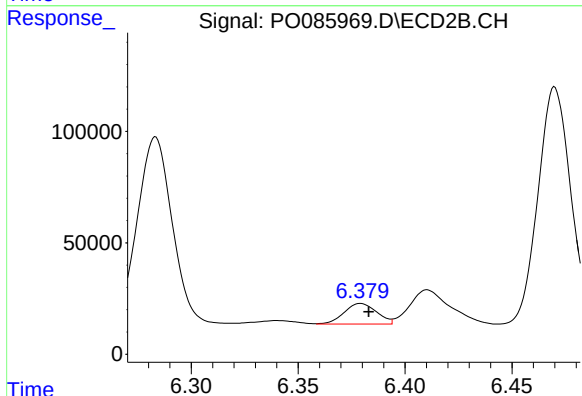
R.T.: 6.168 min
Delta R.T.: 0.014 min
Response: 837900
Conc: 237.16 ng/ml



#29 AR-1254-4

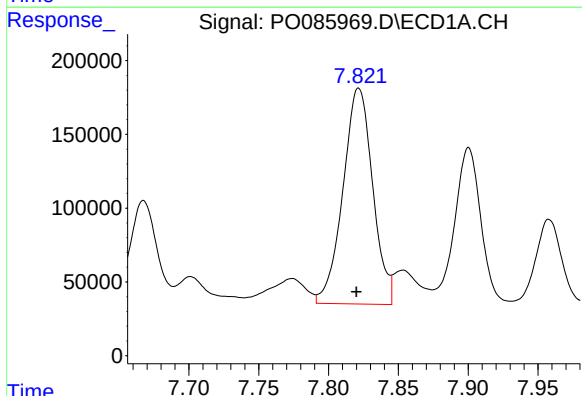
R.T.: 7.401 min
Delta R.T.: 0.003 min
Response: 287354
Conc: 77.15 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



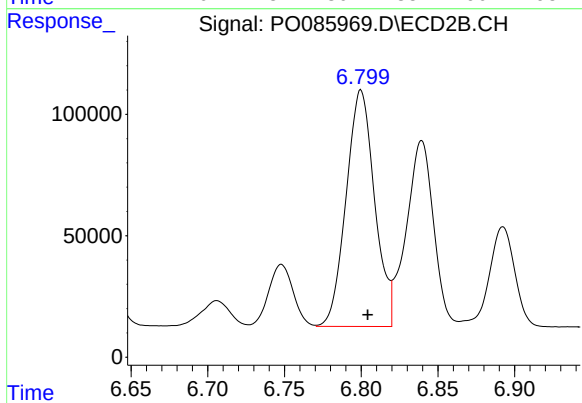
#29 AR-1254-4

R.T.: 6.379 min
Delta R.T.: -0.004 min
Response: 97946
Conc: 44.27 ng/ml



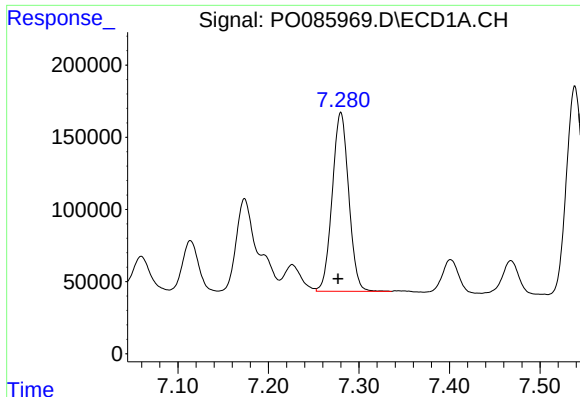
#30 AR-1254-5

R.T.: 7.822 min
Delta R.T.: 0.002 min
Response: 2170365
Conc: 557.01 ng/ml



#30 AR-1254-5

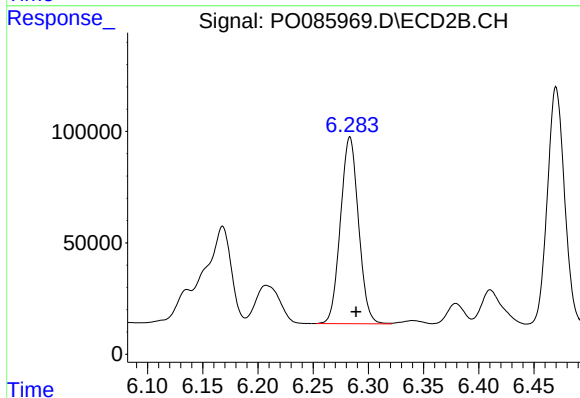
R.T.: 6.800 min
Delta R.T.: -0.004 min
Response: 1261649
Conc: 426.54 ng/ml



#31 AR-1260-1

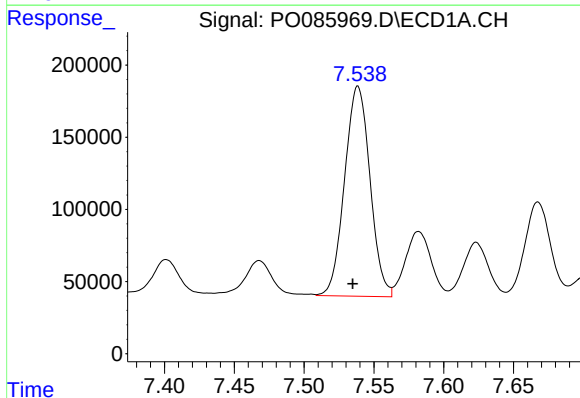
R.T.: 7.280 min
Delta R.T.: 0.003 min
Response: 1570954
Conc: 519.08 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



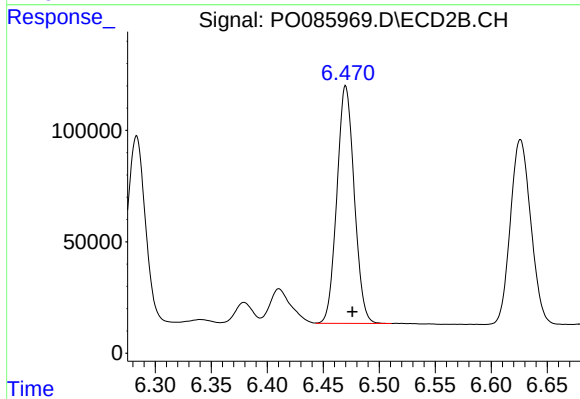
#31 AR-1260-1

R.T.: 6.283 min
Delta R.T.: -0.005 min
Response: 953619
Conc: 489.96 ng/ml



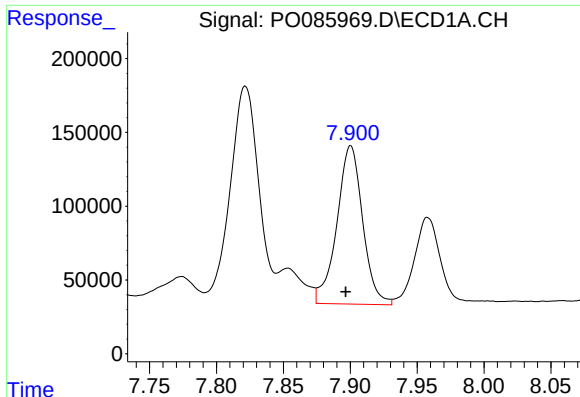
#32 AR-1260-2

R.T.: 7.539 min
Delta R.T.: 0.004 min
Response: 1844095
Conc: 509.77 ng/ml



#32 AR-1260-2

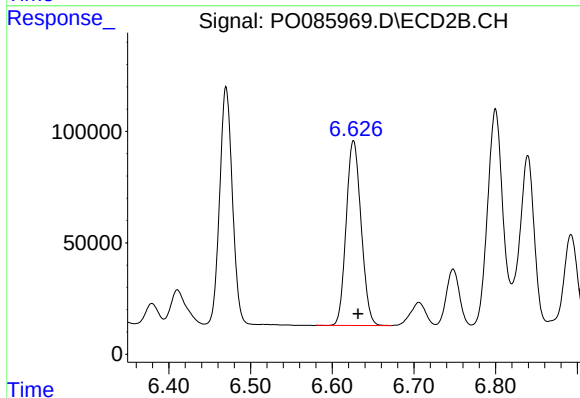
R.T.: 6.470 min
Delta R.T.: -0.006 min
Response: 1149302
Conc: 489.00 ng/ml



#33 AR-1260-3

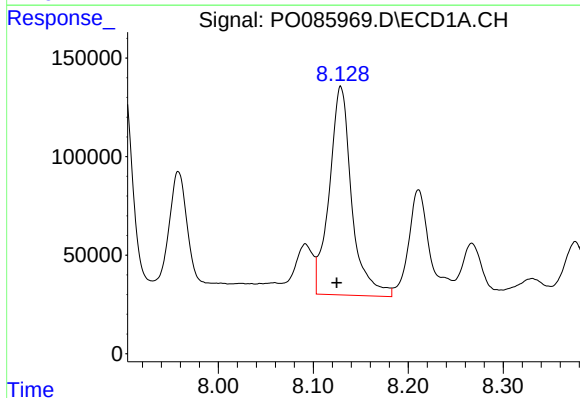
R.T.: 7.900 min
Delta R.T.: 0.004 min
Response: 1441974
Conc: 522.45 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



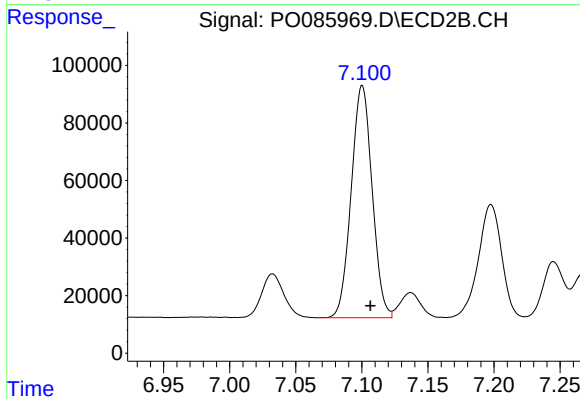
#33 AR-1260-3

R.T.: 6.626 min
Delta R.T.: -0.006 min
Response: 1054507
Conc: 490.41 ng/ml



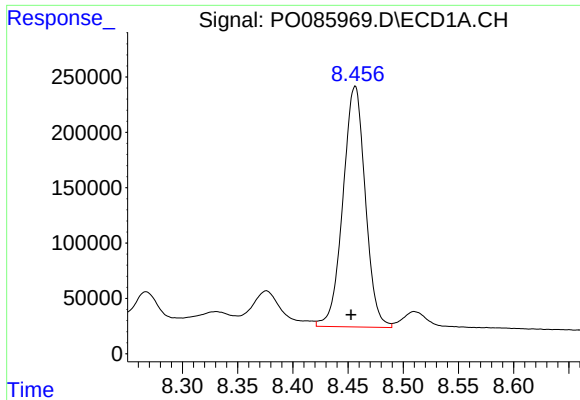
#34 AR-1260-4

R.T.: 8.129 min
Delta R.T.: 0.004 min
Response: 1738322
Conc: 515.21 ng/ml



#34 AR-1260-4

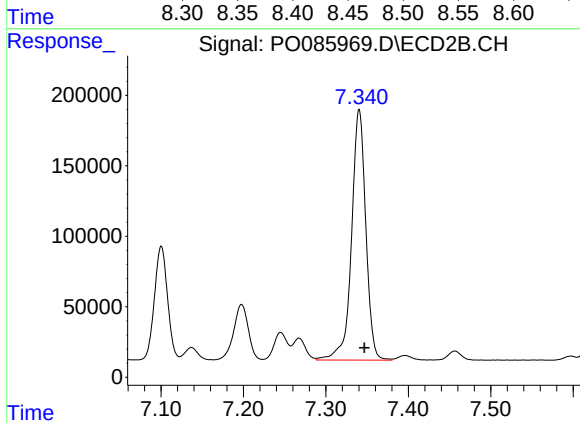
R.T.: 7.100 min
Delta R.T.: -0.006 min
Response: 888717
Conc: 493.56 ng/ml



#35 AR-1260-5

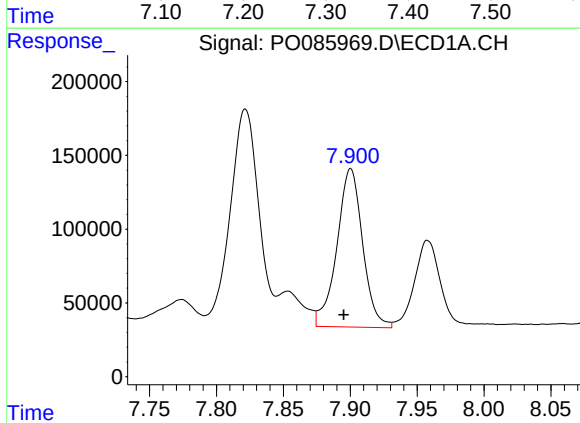
R.T.: 8.456 min
Delta R.T.: 0.004 min
Response: 3061756
Conc: 496.17 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



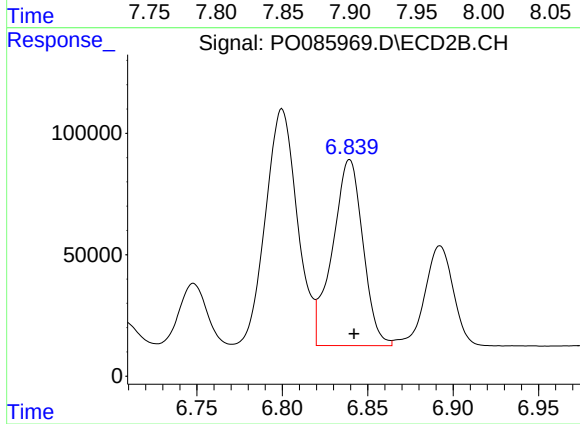
#35 AR-1260-5

R.T.: 7.340 min
Delta R.T.: -0.006 min
Response: 2138035
Conc: 493.57 ng/ml



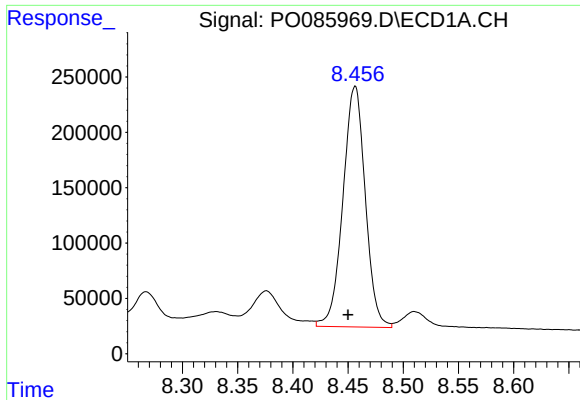
#36 AR-1262-1

R.T.: 7.900 min
Delta R.T.: 0.005 min
Response: 1441974
Conc: 318.83 ng/ml



#36 AR-1262-1

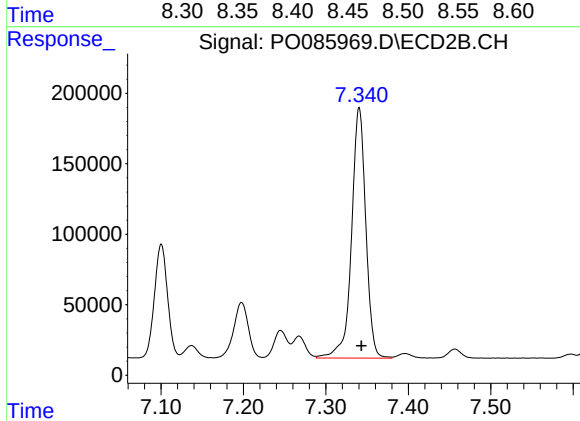
R.T.: 6.839 min
Delta R.T.: -0.003 min
Response: 951136
Conc: 314.79 ng/ml



#37 AR-1262-2

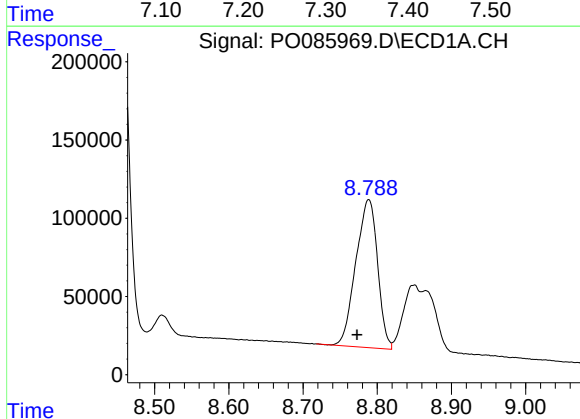
R.T.: 8.456 min
Delta R.T.: 0.006 min
Response: 3061756
Conc: 391.18 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



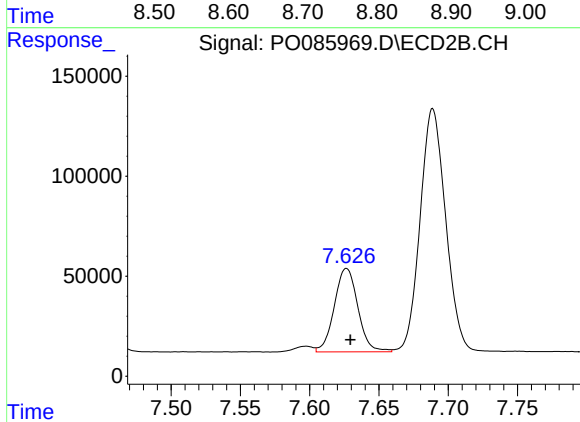
#37 AR-1262-2

R.T.: 7.340 min
Delta R.T.: -0.003 min
Response: 2138035
Conc: 389.21 ng/ml



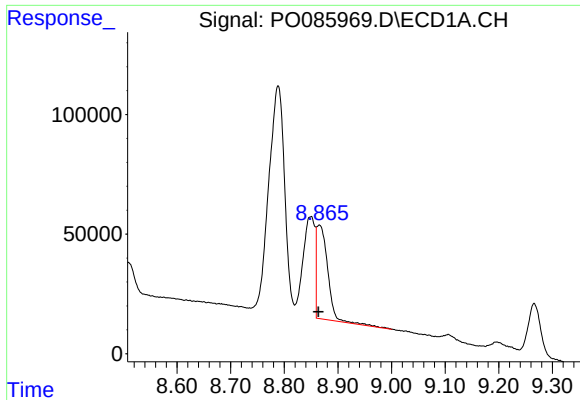
#38 AR-1262-3

R.T.: 8.789 min
Delta R.T.: 0.016 min
Response: 1928909
Conc: 588.81 ng/ml



#38 AR-1262-3

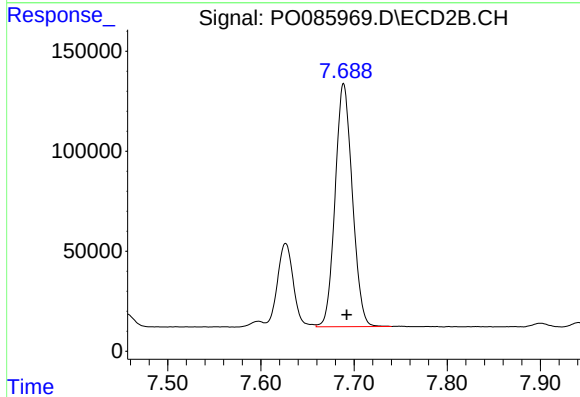
R.T.: 7.627 min
Delta R.T.: -0.003 min
Response: 494554
Conc: 234.61 ng/ml



#39 AR-1262-4

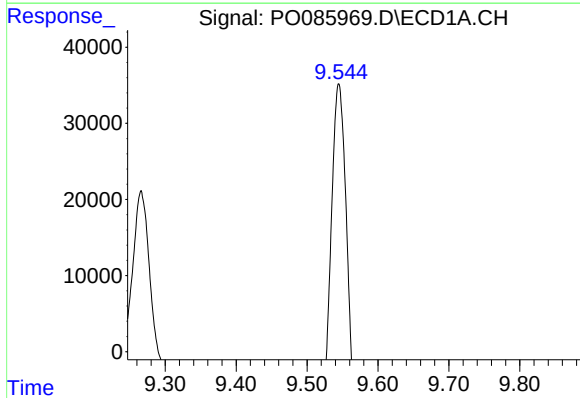
R.T.: 8.865 min
Delta R.T.: 0.002 min
Response: 568293
Conc: 245.71 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



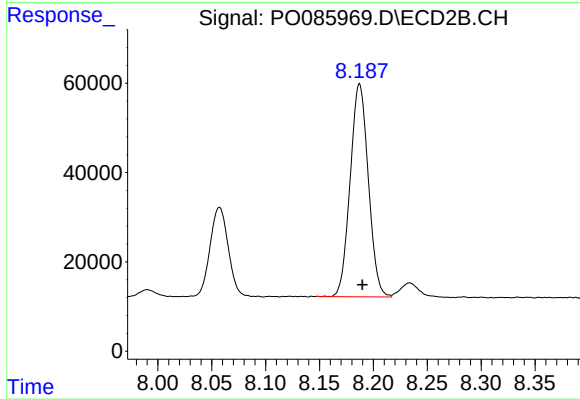
#39 AR-1262-4

R.T.: 7.689 min
Delta R.T.: -0.003 min
Response: 1557816
Conc: 393.03 ng/ml



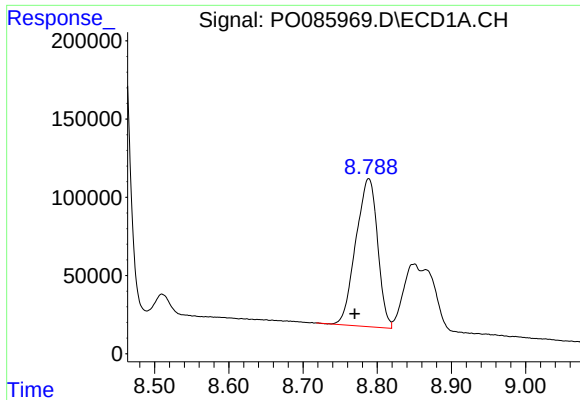
#40 AR-1262-5

R.T.: 9.545 min
Delta R.T.: 0.006 min
Response: 877111
Conc: 317.80 ng/ml



#40 AR-1262-5

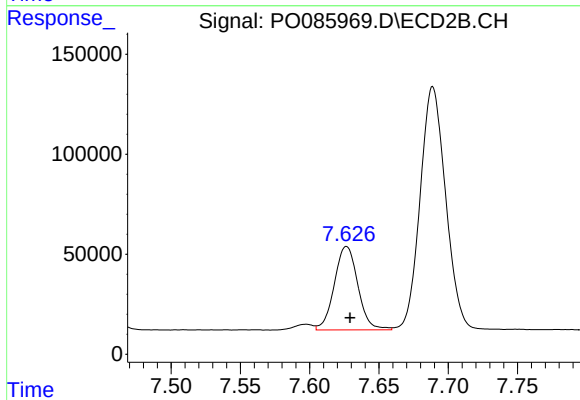
R.T.: 8.187 min
Delta R.T.: -0.003 min
Response: 559513
Conc: 312.33 ng/ml



#41 AR-1268-1

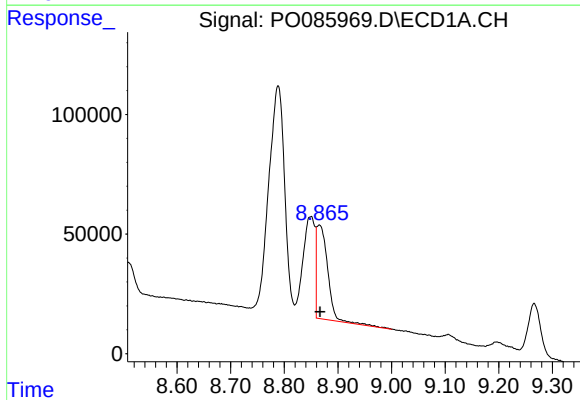
R.T.: 8.789 min
Delta R.T.: 0.019 min
Response: 1928909
Conc: 220.94 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



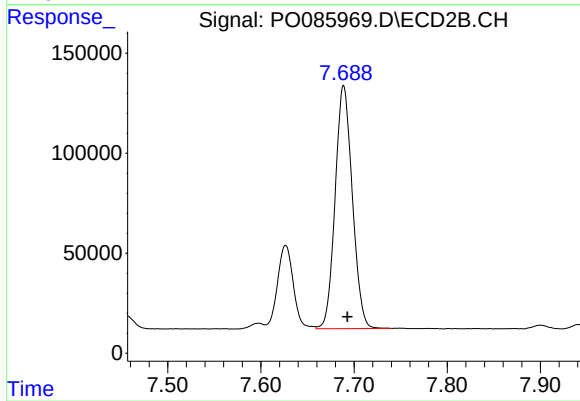
#41 AR-1268-1

R.T.: 7.627 min
Delta R.T.: -0.003 min
Response: 494554
Conc: 81.05 ng/ml



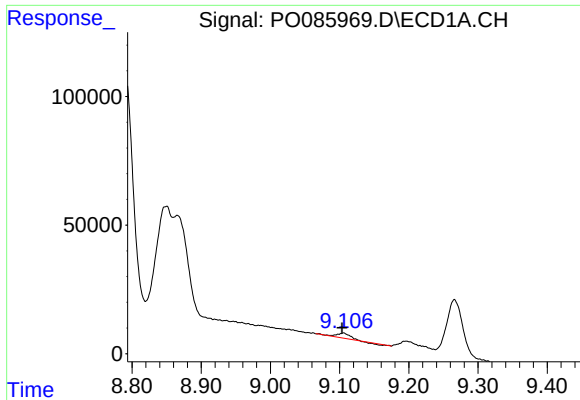
#42 AR-1268-2

R.T.: 8.865 min
Delta R.T.: -0.001 min
Response: 568293
Conc: 71.05 ng/ml



#42 AR-1268-2

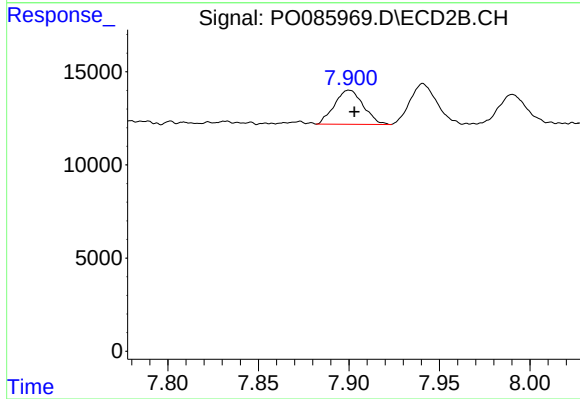
R.T.: 7.689 min
Delta R.T.: -0.004 min
Response: 1557816
Conc: 283.78 ng/ml



#43 AR-1268-3

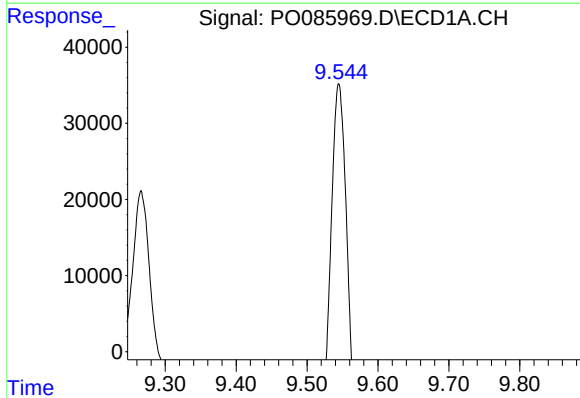
R.T.: 9.106 min
Delta R.T.: 0.002 min
Response: 21349
Conc: 3.22 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



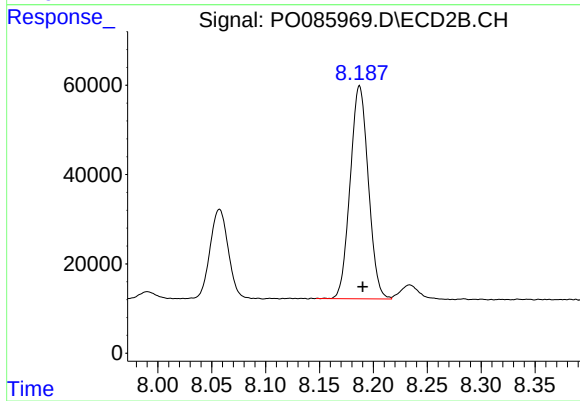
#43 AR-1268-3

R.T.: 7.900 min
Delta R.T.: -0.003 min
Response: 20278
Conc: 4.46 ng/ml



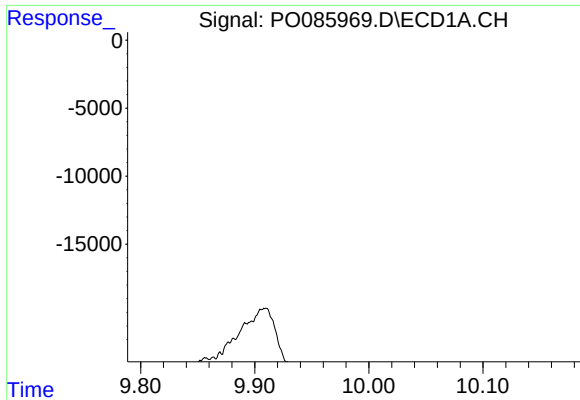
#44 AR-1268-4

R.T.: 9.545 min
Delta R.T.: 0.004 min
Response: 877111
Conc: 290.50 ng/ml



#44 AR-1268-4

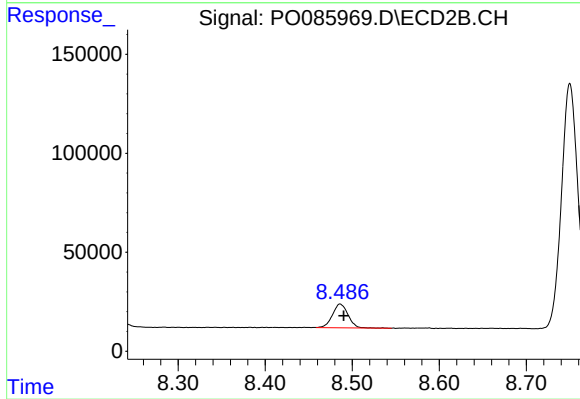
R.T.: 8.187 min
Delta R.T.: -0.003 min
Response: 559513
Conc: 286.56 ng/ml



#45 AR-1268-5

R.T.: 9.974 min
Delta R.T.: 0.004 min
Response: 353709
Conc: 16.17 ng/ml

Instrument :
ECD_O
ClientSampleId :
ICVPO051122



#45 AR-1268-5

R.T.: 8.486 min
Delta R.T.: -0.004 min
Response: 149771
Conc: 10.22 ng/ml