

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD031124\
 Data File : VD078628.D
 Acq On : 11 Mar 2024 13:21
 Operator : RP/MD
 Sample : P1720-01RE
 Misc : 5.06G/5ml/MSVOA_D/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT4196RE

Quant Time: Mar 12 01:38:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D030124S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 03:50:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

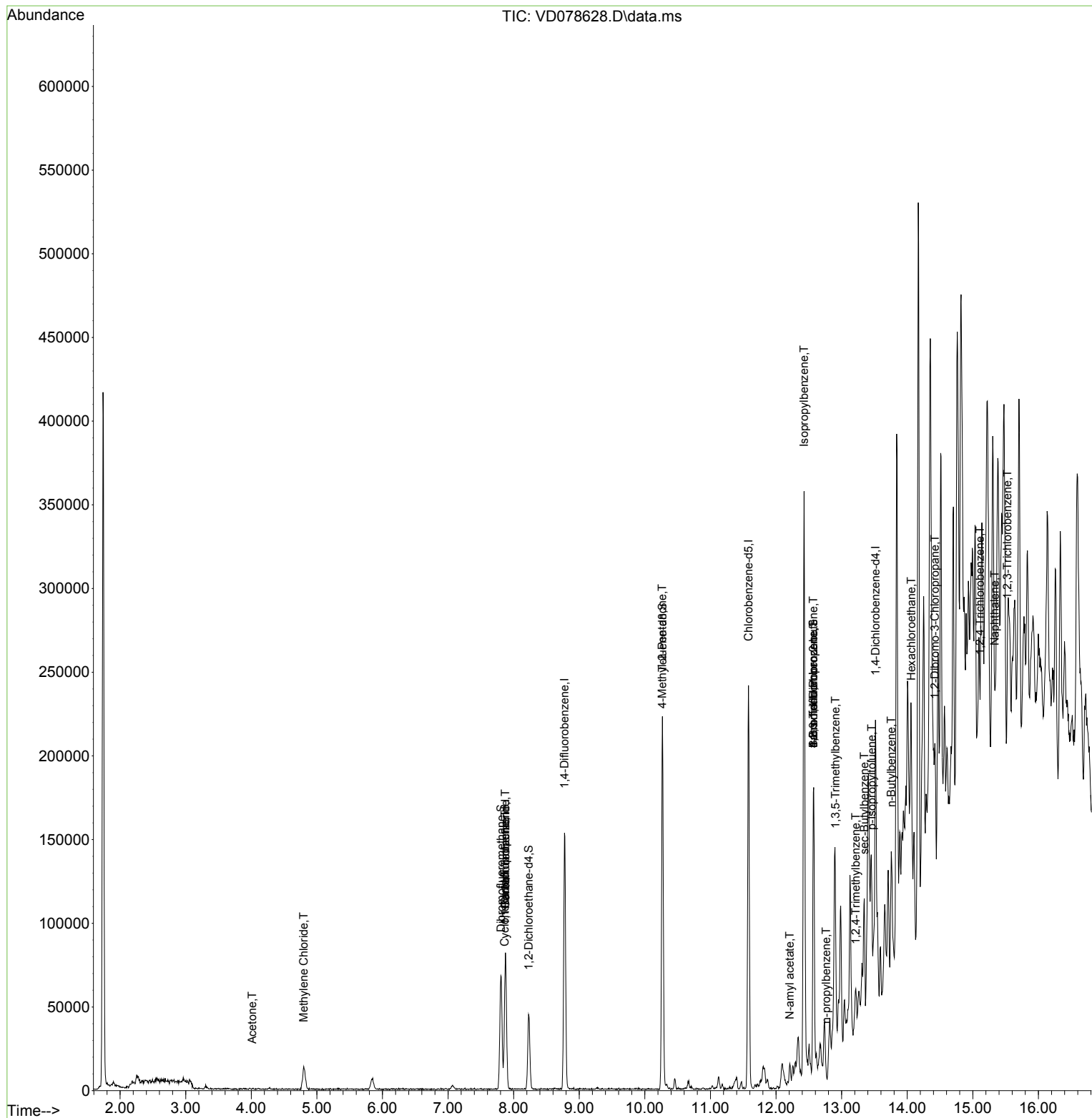
Internal Standards						
1) Pentafluorobenzene	7.875	168	63035	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	139708	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	143562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	42028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	35561	56.910	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.820%	
35) Dibromofluoromethane	7.810	113	51296	56.444	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.880%	
50) Toluene-d8	10.269	98	156744	44.386	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 88.780%	
62) 4-Bromofluorobenzene	12.569	95	52054	51.609	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 103.220%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.164	50	250	Below Cal	#	41
16) Acetone	4.016	43	412	3.442	ug/l #	32
20) Methylene Chloride	4.799	84	10440	2.615	ug/l #	80
31) Cyclohexane	7.863	56	1583	1.619	ug/l #	67
36) 1,1-Dichloropropene	7.869	75	5371	4.271	ug/l #	40
38) Carbon Tetrachloride	7.875	117	6115	4.649	ug/l #	11
51) 4-Methyl-2-Pentanone	10.263	43	760	1.885	ug/l #	1
71) Bromoform	12.569	173	576	1.029	ug/l #	1
73) Isopropylbenzene	12.428	105	15801	5.931	ug/l #	65
74) N-amyl acetate	12.210	43	2464	5.495	ug/l #	76
76) 1,2,3-Trichloropropane	12.569	75	26536	82.670	ug/l #	100
78) n-propylbenzene	12.763	91	3504	1.075	ug/l #	63
80) 1,3,5-Trimethylbenzene	12.904	105	13412	6.187	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.569	75	26536	176.951	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.216	105	13570	6.124	ug/l	93
85) sec-Butylbenzene	13.345	105	38403	13.187	ug/l	100
86) p-Isopropyltoluene	13.457	119	18978	7.741	ug/l	94
89) n-Butylbenzene	13.757	91	5800	2.532	ug/l #	1
90) Hexachloroethane	14.063	117	3565	7.152	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.422	75	98	1.441	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.110	180	1012	1.461	ug/l #	1
95) Naphthalene	15.333	128	7196	5.881	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.528	180	1505	2.447	ug/l #	13

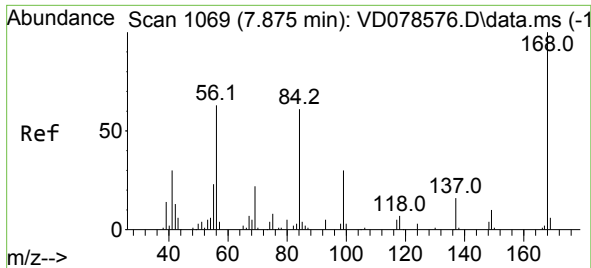
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 02 03:50:17 2024
Response via : Initial Calibration

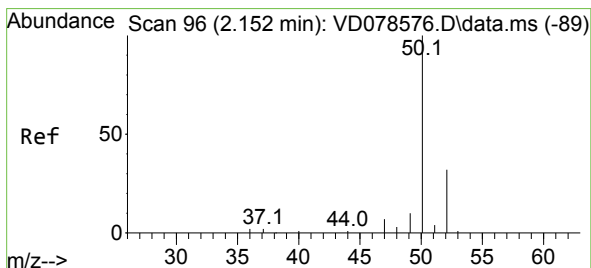
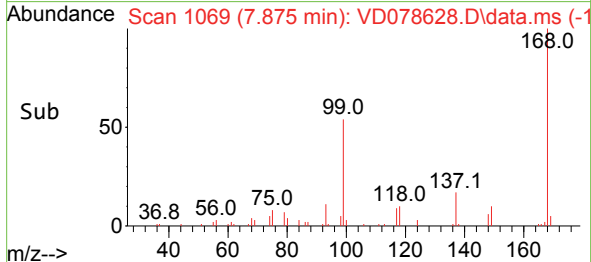
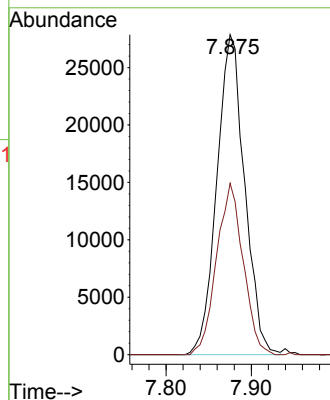
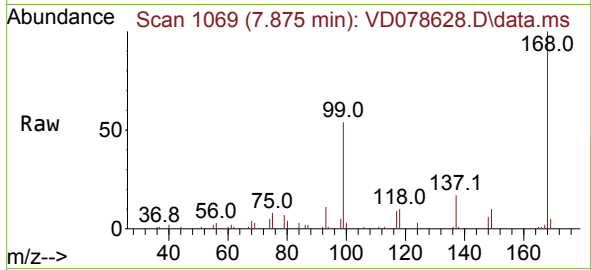




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

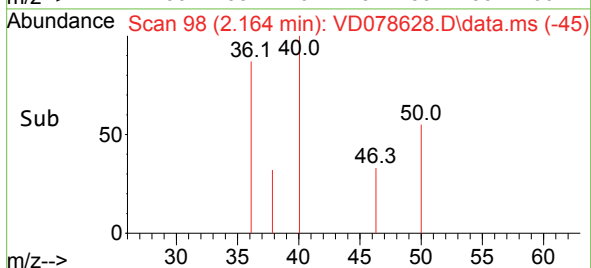
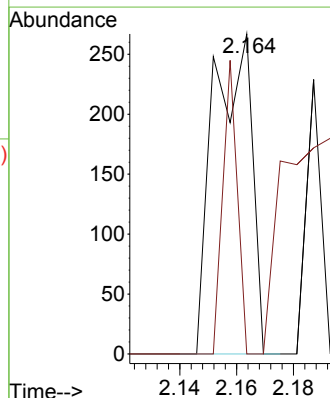
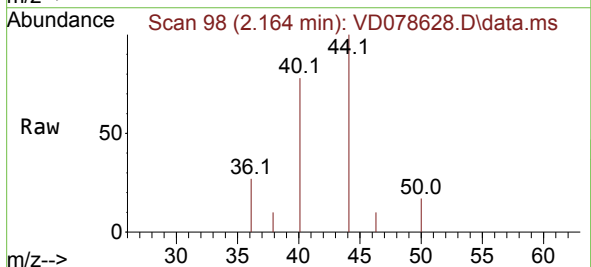
Instrument :
MSVOA_D
ClientSampleId :
RT4196RE

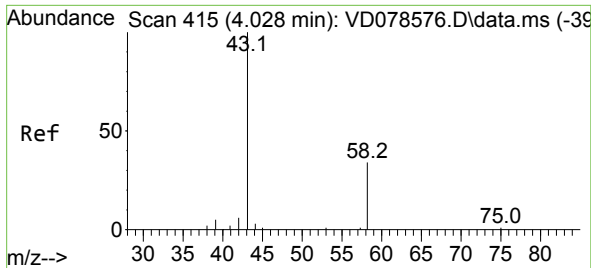
Tgt Ion:168 Resp: 63035
Ion Ratio Lower Upper
168 100
99 53.5 36.7 55.1



#3
Chloromethane
Concen: Below Cal
RT: 2.164 min Scan# 98
Delta R.T. 0.012 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion: 50 Resp: 250
Ion Ratio Lower Upper
50 100
52 0.0 26.6 40.0#





#16

Acetone

Concen: 3.442 ug/l

RT: 4.016 min Scan# 41

Delta R.T. -0.012 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

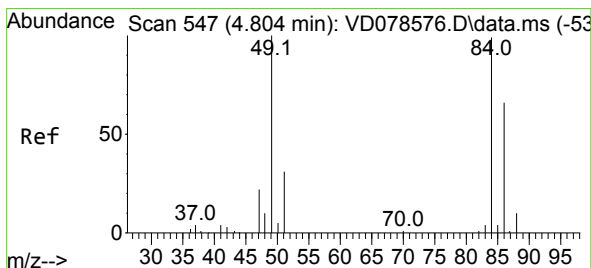
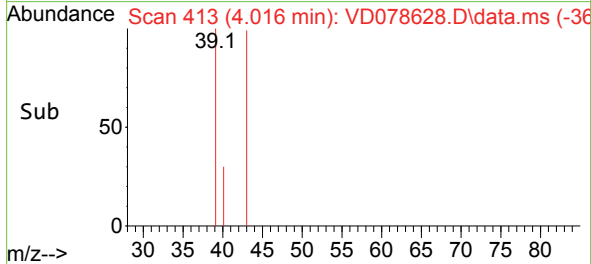
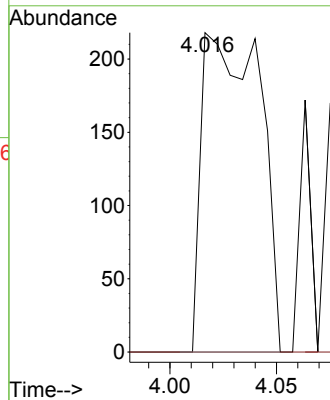
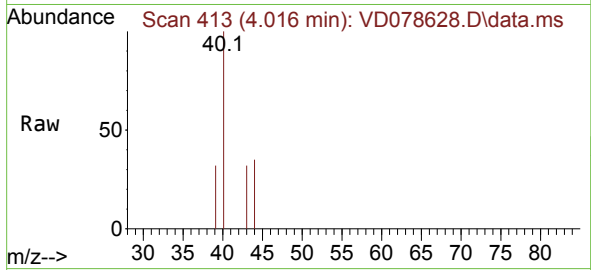
RT4196RE

Tgt Ion: 43 Resp: 412

Ion Ratio Lower Upper

43 100

58 0.0 34.7 52.1#



#20

Methylene Chloride

Concen: 2.615 ug/l

RT: 4.799 min Scan# 546

Delta R.T. -0.005 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Tgt Ion: 84 Resp: 10440

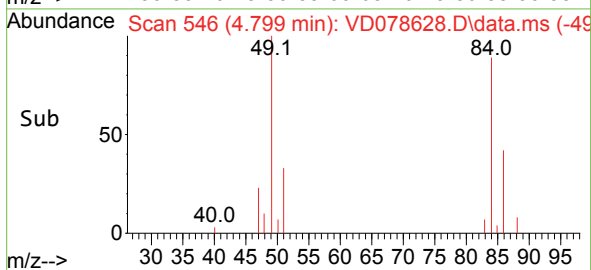
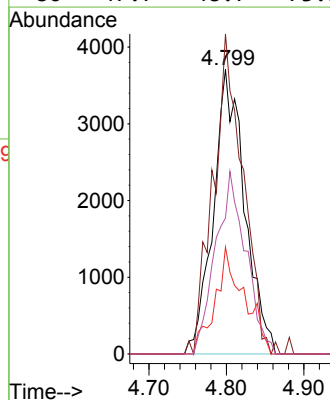
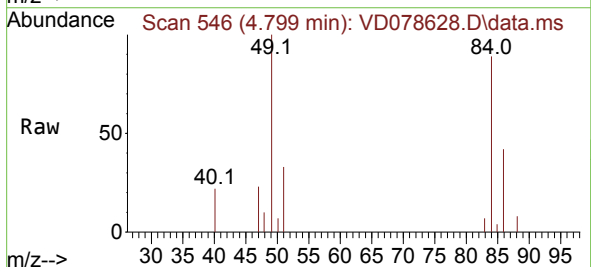
Ion Ratio Lower Upper

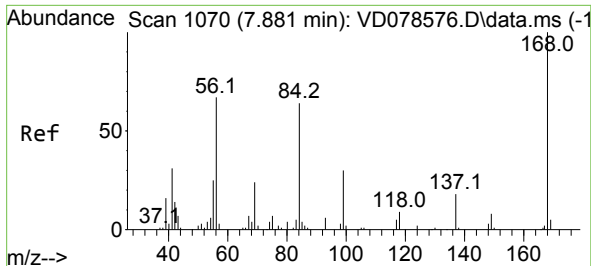
84 100

49 112.4 71.4 107.2#

51 37.5 24.5 36.7#

86 47.7 48.7 73.1#

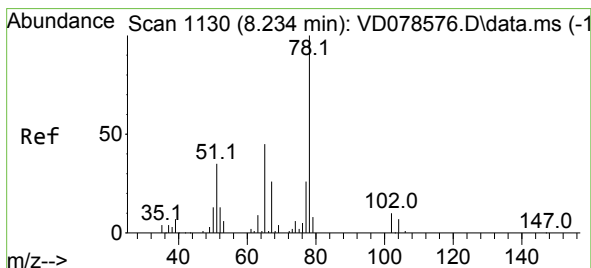
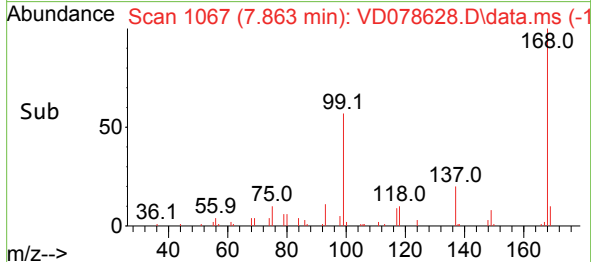
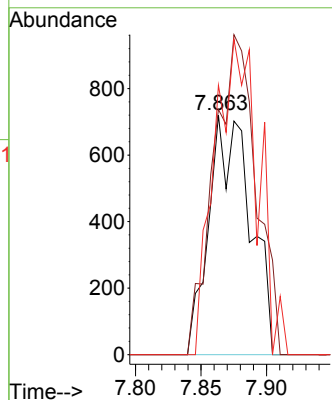
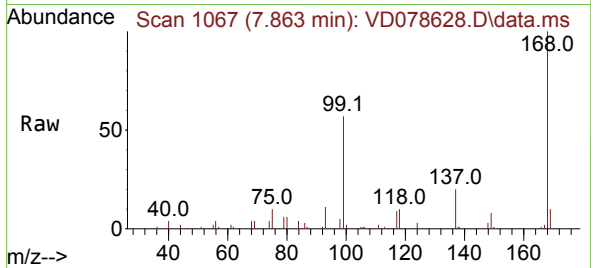




#31
Cyclohexane
Concen: 1.619 ug/l
RT: 7.863 min Scan# 1107
Delta R.T. -0.017 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

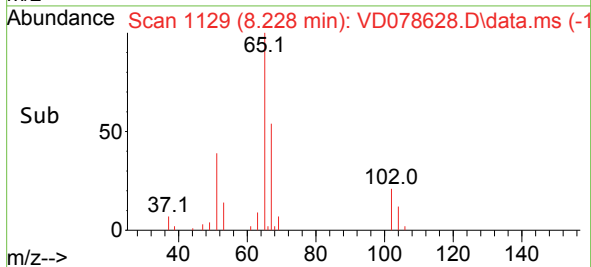
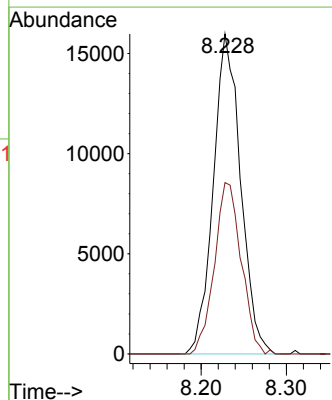
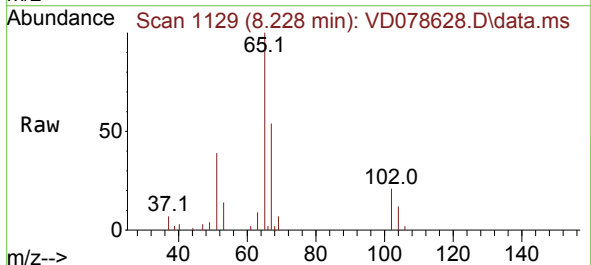
Instrument :
MSVOA_D
ClientSampleId :
RT4196RE

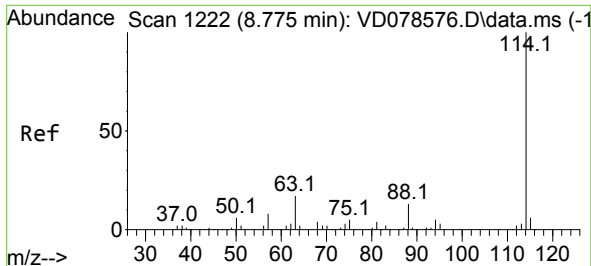
Tgt Ion: 56 Resp: 1583
Ion Ratio Lower Upper
56 100
69 102.4 28.6 43.0#
84 112.5 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 56.910 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.006 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion: 65 Resp: 35561
Ion Ratio Lower Upper
65 100
67 52.6 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

RT4196RE

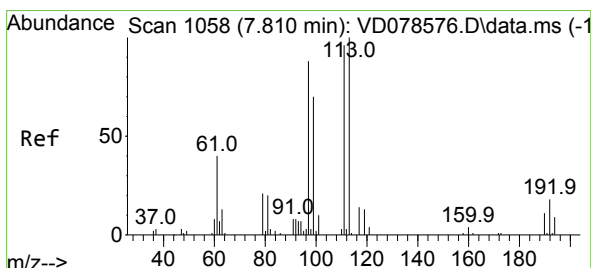
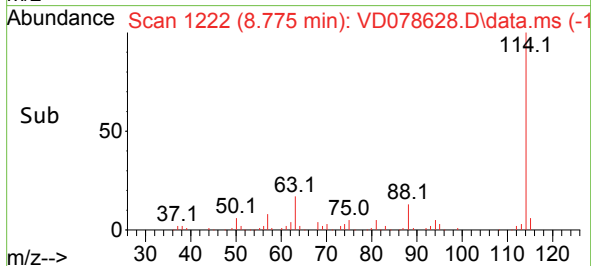
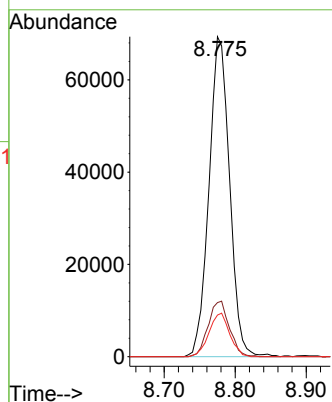
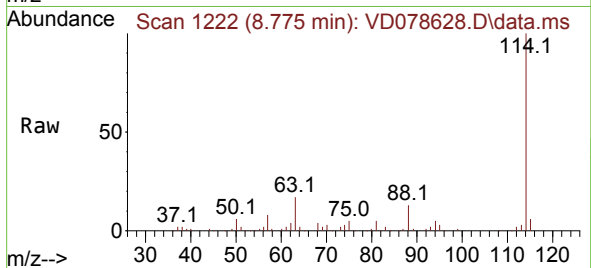
Tgt Ion:114 Resp: 139708

Ion Ratio Lower Upper

114 100

63 16.9 0.0 33.4

88 13.0 0.0 26.2



#35

Dibromofluoromethane

Concen: 56.444 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

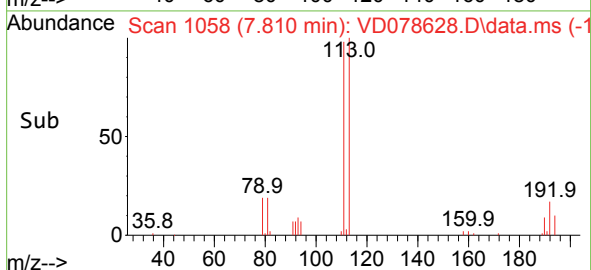
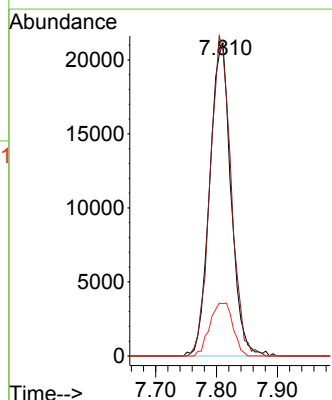
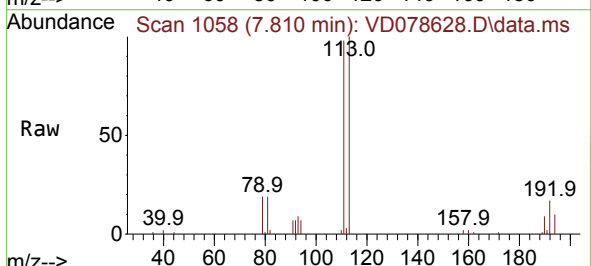
Tgt Ion:113 Resp: 51296

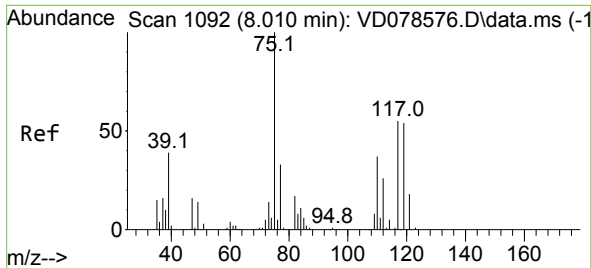
Ion Ratio Lower Upper

113 100

111 101.4 84.7 127.1

192 18.3 16.8 25.2

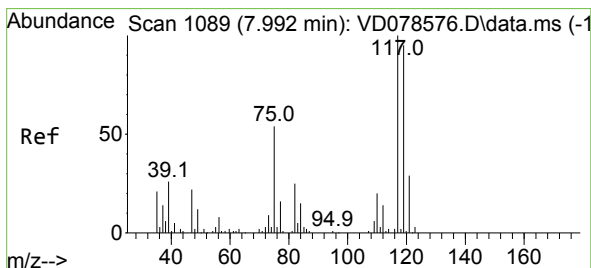
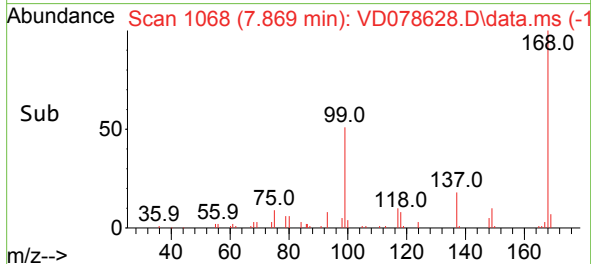
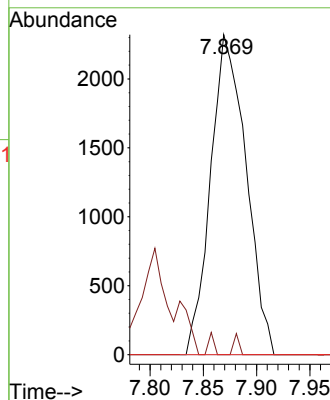
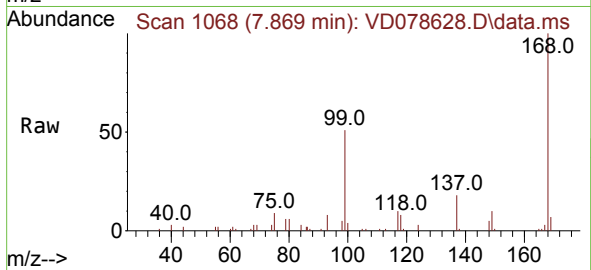




#36
1,1-Dichloropropene
Concen: 4.271 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

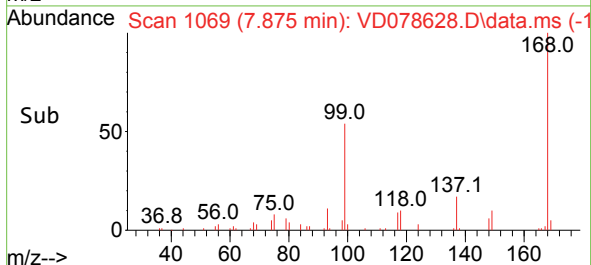
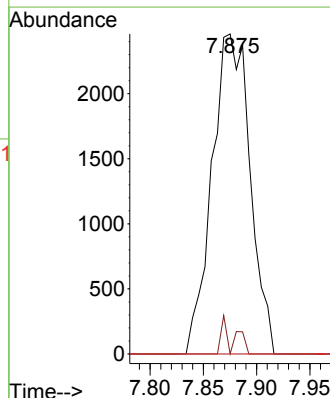
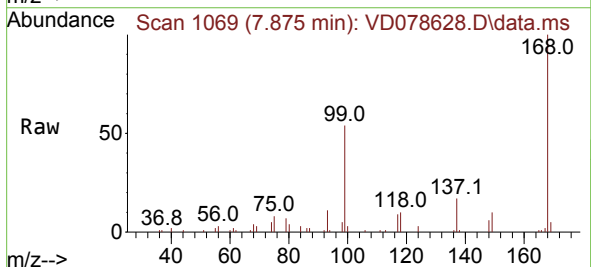
Instrument :
MSVOA_D
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RT4196RE

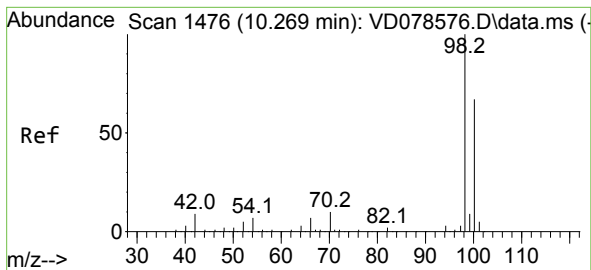
Tgt Ion: 75 Resp: 5371
Ion Ratio Lower Upper
75 100
110 1.0 19.9 59.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 4.649 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.117 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion: 117 Resp: 6115
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 44.386 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

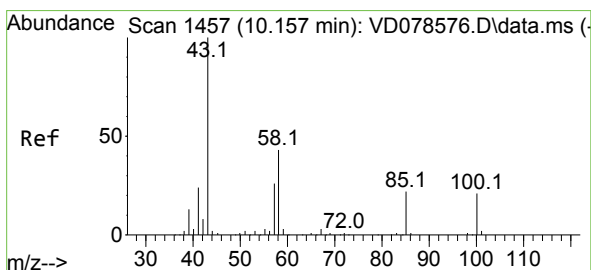
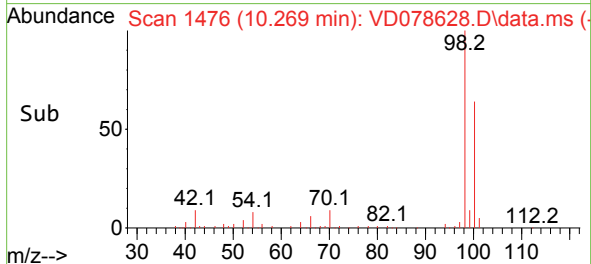
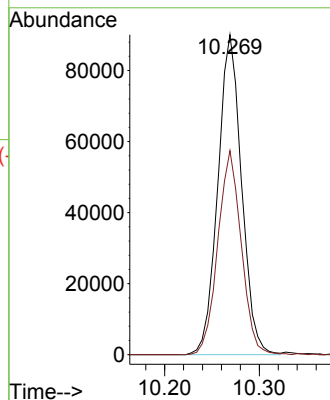
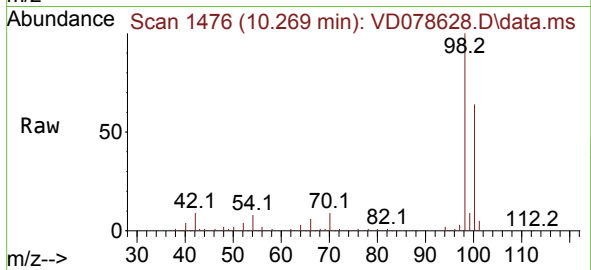
RT4196RE

Tgt Ion: 98 Resp: 156744

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.885 ug/l

RT: 10.263 min Scan# 1475

Delta R.T. 0.106 min

Lab File: VD078628.D

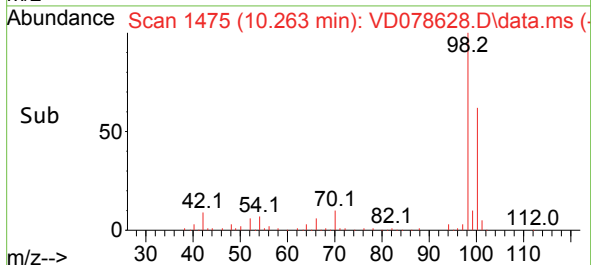
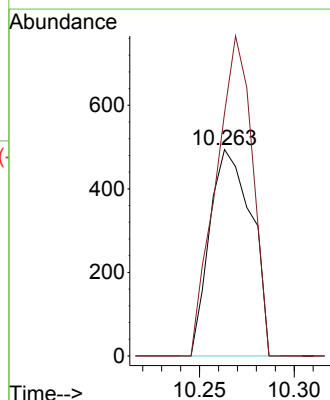
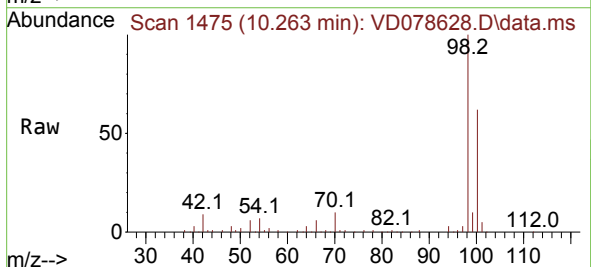
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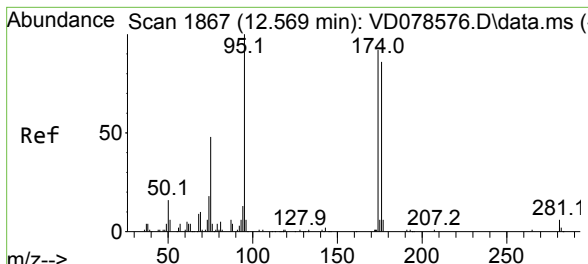
Tgt Ion: 43 Resp: 760

Ion Ratio Lower Upper

43 100

58 134.1 38.9 58.3#

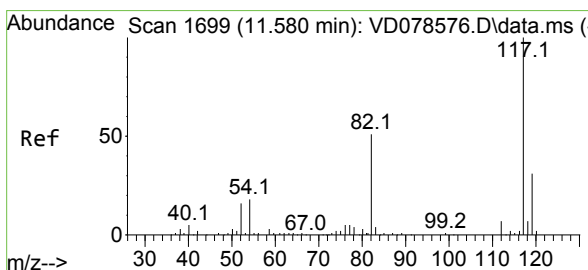
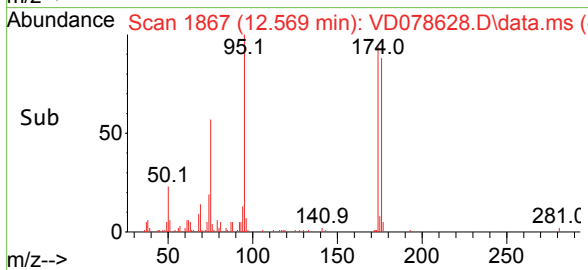
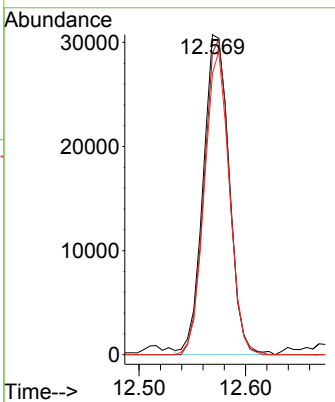
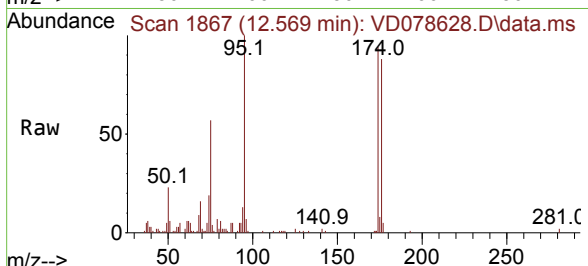




#62
 4-Bromofluorobenzene
 Concen: 51.609 ug/l
 RT: 12.569 min Scan# 1867
 Delta R.T. 0.000 min
 Lab File: VD078628.D
 Acq: 11 Mar 2024 13:21

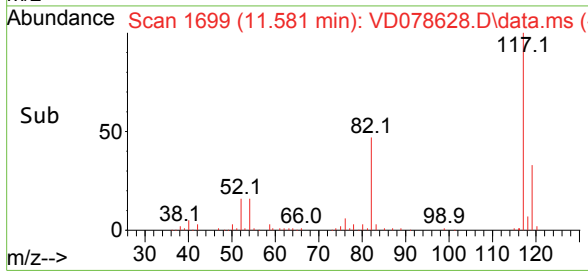
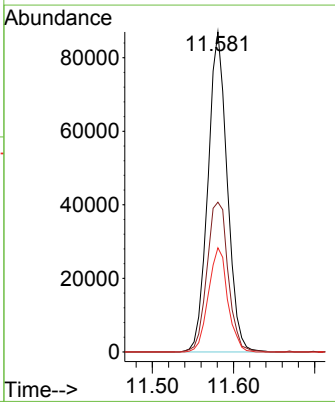
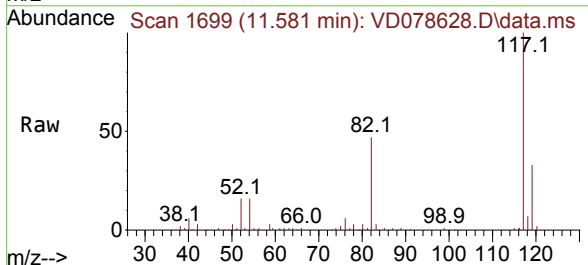
Instrument :
 MSVOA_D
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 RT4196RE

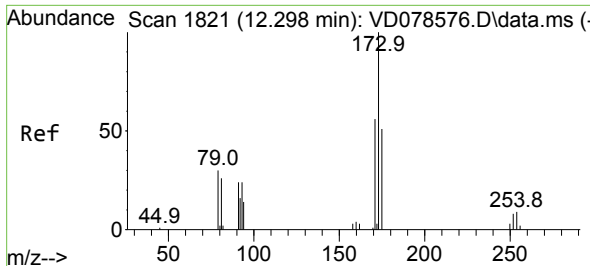
Tgt Ion:	95	Resp:	52054
Ion	Ratio	Lower	Upper
95	100		
174	94.8	0.0	201.8
176	90.5	0.0	191.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.581 min Scan# 1699
 Delta R.T. 0.000 min
 Lab File: VD078628.D
 Acq: 11 Mar 2024 13:21

Tgt Ion:	117	Resp:	143562
Ion	Ratio	Lower	Upper
117	100		
82	46.8	38.3	57.5
119	32.6	25.0	37.4

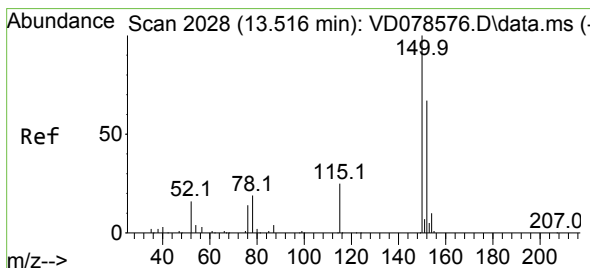
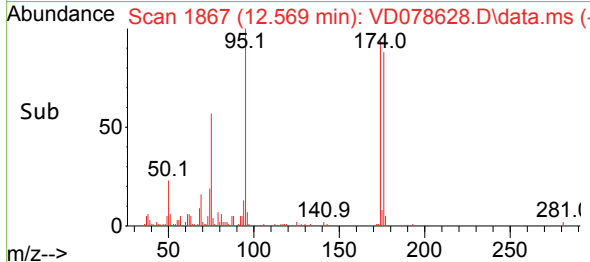
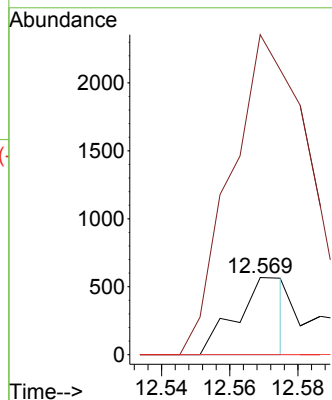
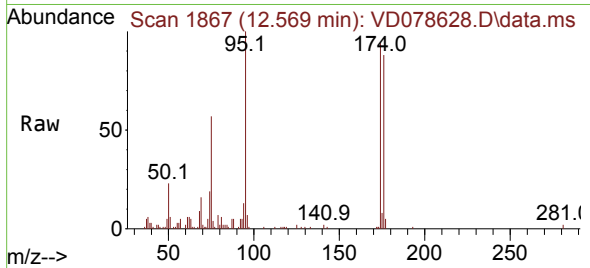




#71
Bromoform
Concen: 1.029 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.271 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

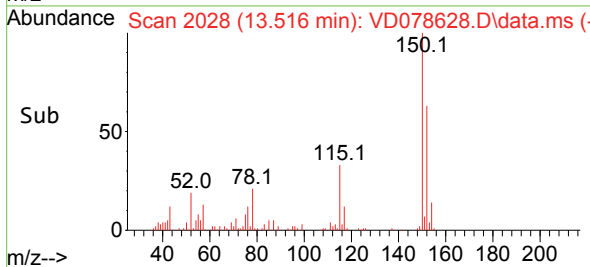
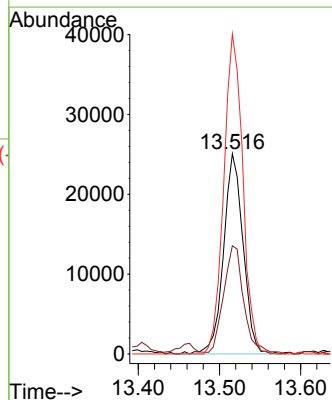
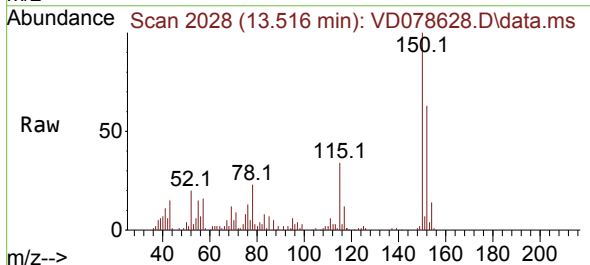
Instrument :
MSVOA_D
ClientSampleId :
RT4196RE

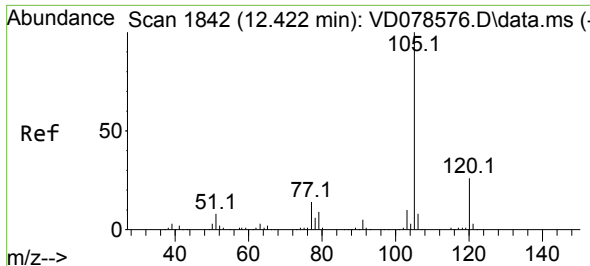
Tgt Ion:173 Resp: 576
Ion Ratio Lower Upper
173 100
175 451.4 24.6 73.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.000 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion:152 Resp: 42028
Ion Ratio Lower Upper
152 100
115 55.8 27.1 81.3
150 155.2 0.0 353.6

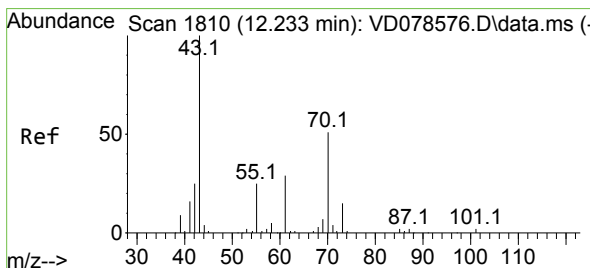
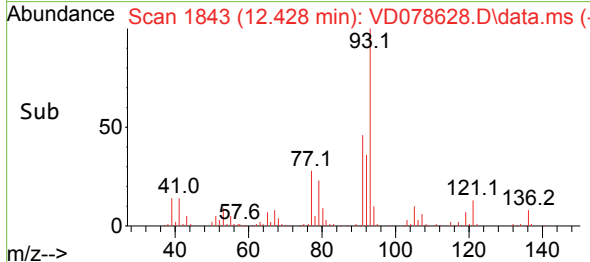
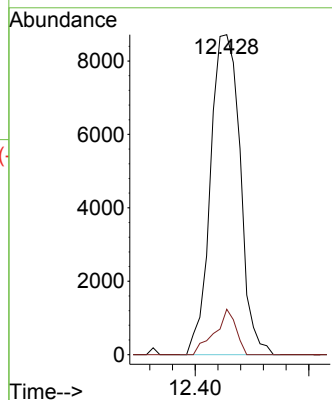
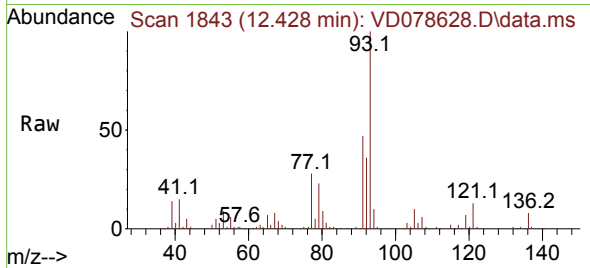




#73
Isopropylbenzene
Concen: 5.931 ug/l
RT: 12.428 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

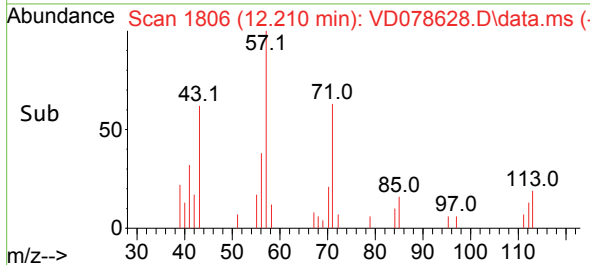
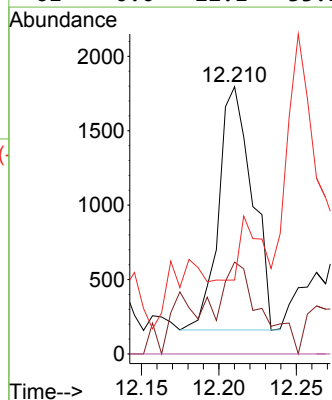
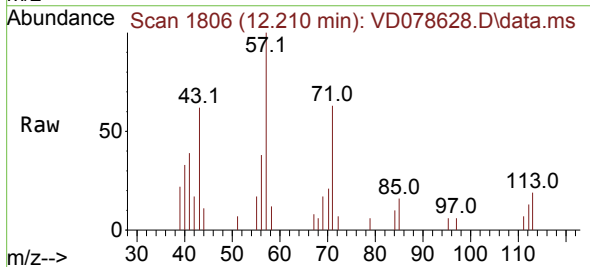
Instrument :
MSVOA_D
ClientSampleId :
RT4196RE

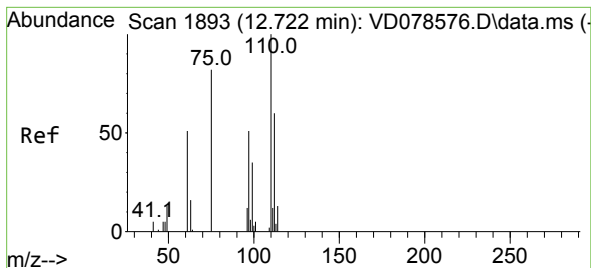
Tgt Ion:105 Resp: 15801
Ion Ratio Lower Upper
105 100
120 10.1 14.3 42.9#



#74
N-ethyl acetate
Concen: 5.495 ug/l
RT: 12.210 min Scan# 1806
Delta R.T. -0.023 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion: 43 Resp: 2464
Ion Ratio Lower Upper
43 100
70 49.8 45.0 67.4
55 16.4 23.8 35.6#
61 0.0 22.1 33.1#





#76

1,2,3-Trichloropropane

Concen: 82.670 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

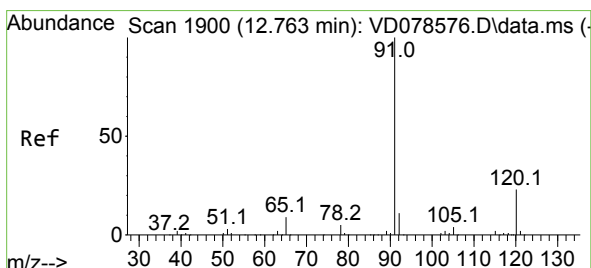
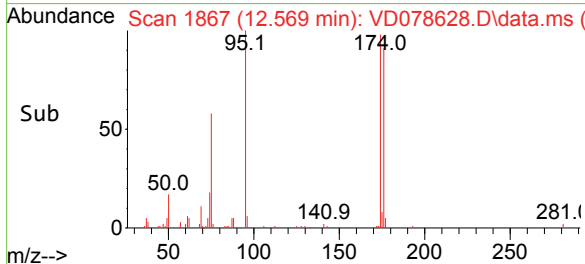
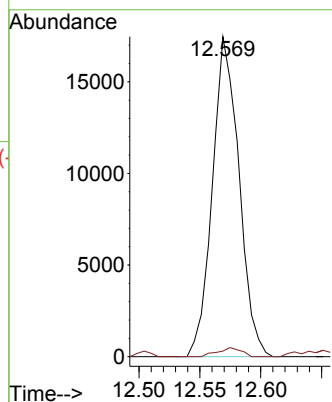
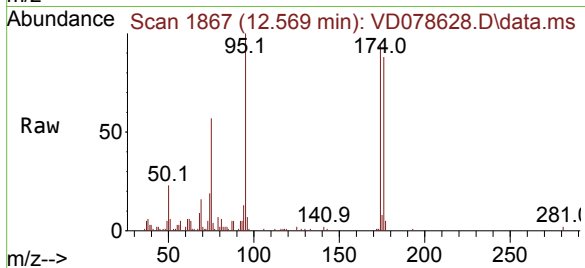
RT4196RE

Tgt Ion: 75 Resp: 26536

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#78

n-propylbenzene

Concen: 1.075 ug/l

RT: 12.763 min Scan# 1900

Delta R.T. 0.000 min

Lab File: VD078628.D

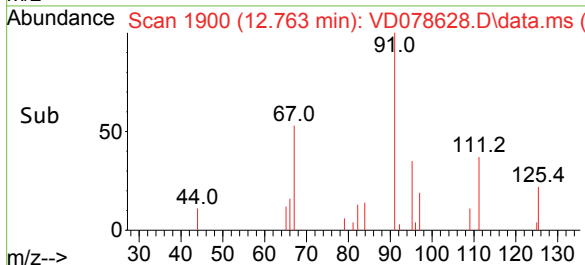
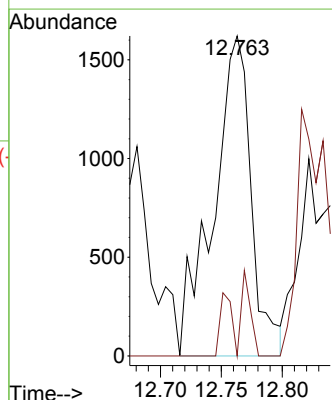
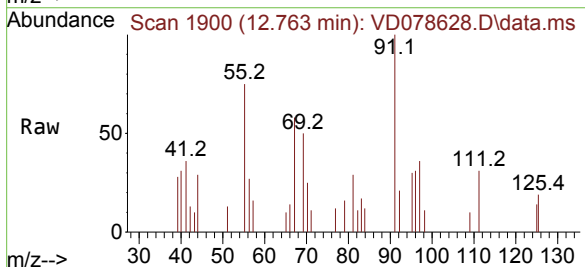
Acq: 11 Mar 2024 13:21

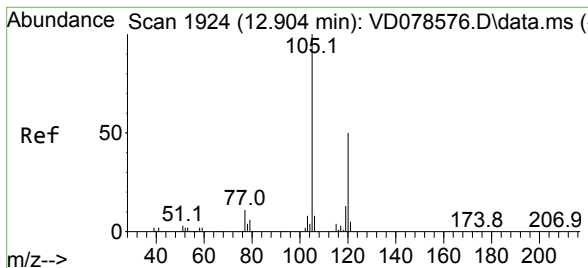
Tgt Ion: 91 Resp: 3504

Ion Ratio Lower Upper

91 100

120 6.4 12.4 37.2#





#80

1,3,5-Trimethylbenzene

Concen: 6.187 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

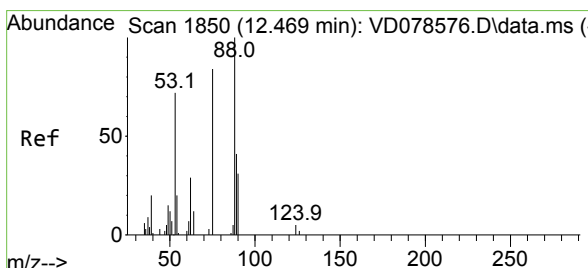
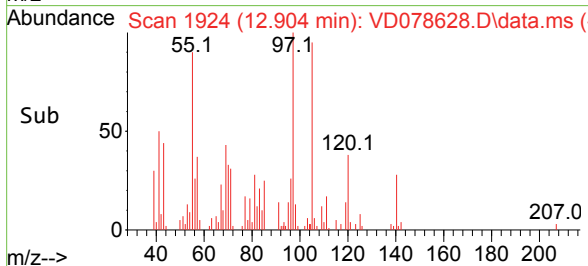
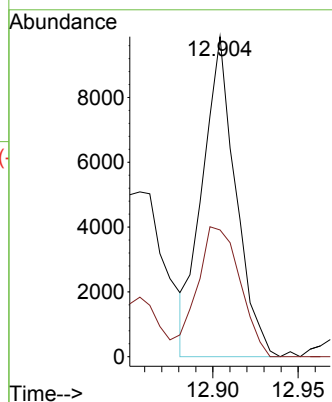
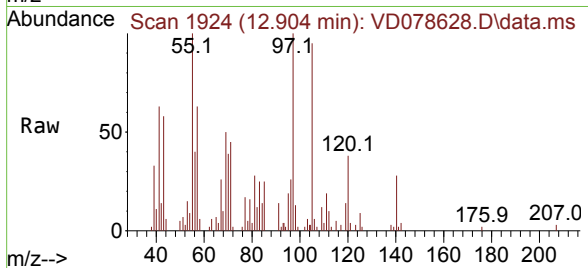
RT4196RE

Tgt Ion:105 Resp: 13412

Ion Ratio Lower Upper

105 100

120 52.7 26.4 79.2



#81

trans-1,4-Dichloro-2-butene

Concen: 176.951 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.100 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

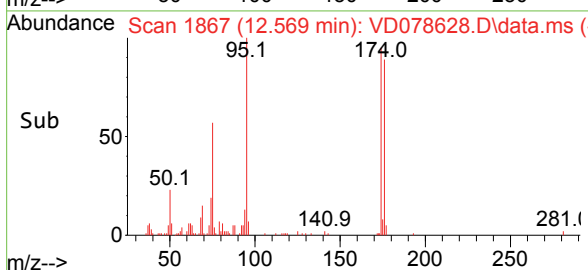
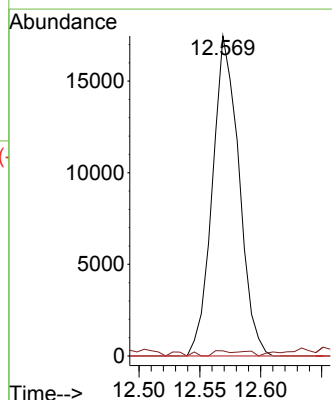
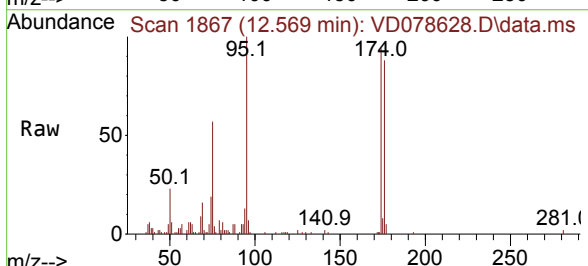
Tgt Ion: 75 Resp: 26536

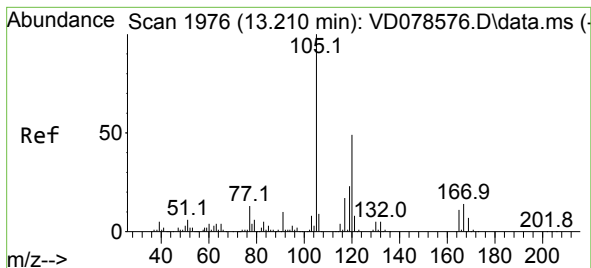
Ion Ratio Lower Upper

75 100

53 0.0 63.0 94.4#

89 0.0 37.9 56.9#





#84

1,2,4-Trimethylbenzene

Concen: 6.124 ug/l

RT: 13.216 min Scan# 1976

Delta R.T. 0.006 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

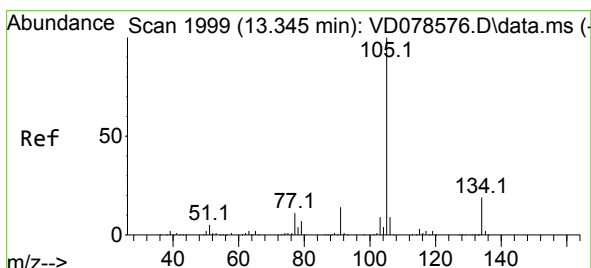
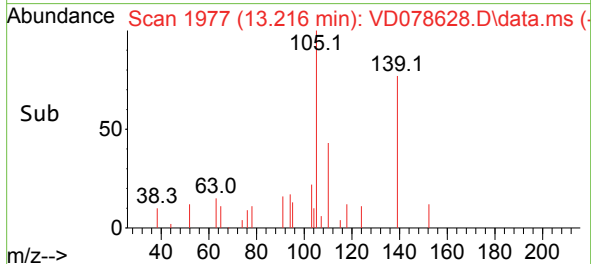
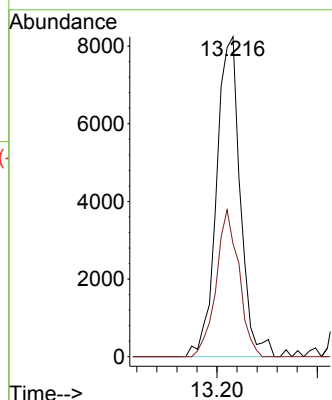
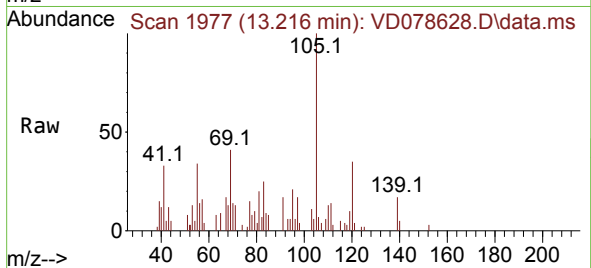
RT4196RE

Tgt Ion:105 Resp: 13570

Ion Ratio Lower Upper

105 100

120 43.9 24.3 72.9



#85

sec-Butylbenzene

Concen: 13.187 ug/l

RT: 13.345 min Scan# 1999

Delta R.T. 0.000 min

Lab File: VD078628.D

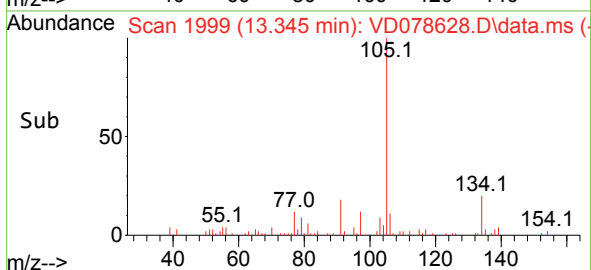
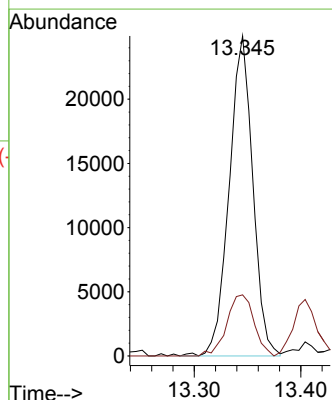
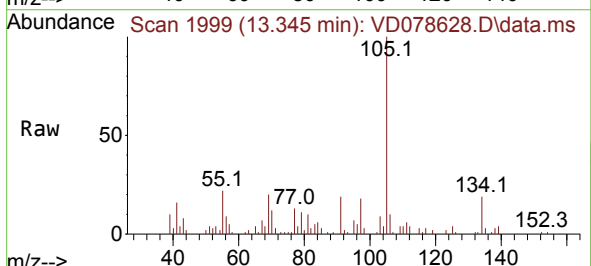
Acq: 11 Mar 2024 13:21

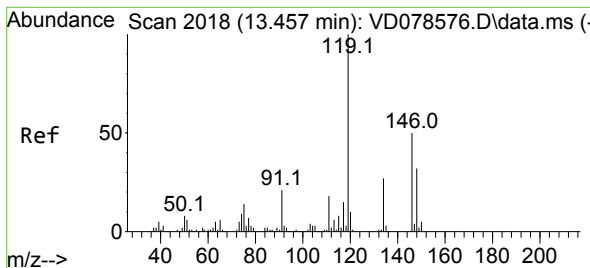
Tgt Ion:105 Resp: 38403

Ion Ratio Lower Upper

105 100

134 22.0 10.9 32.9





#86

p-Isopropyltoluene

Concen: 7.741 ug/l

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

Instrument :

MSVOA_D

ClientSampleId :

RT4196RE

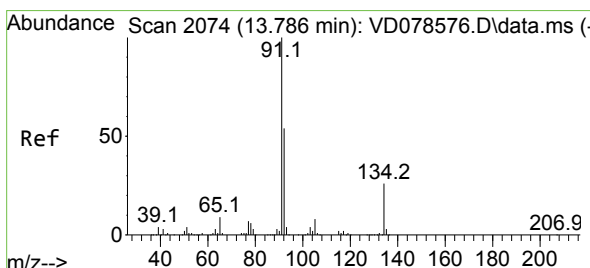
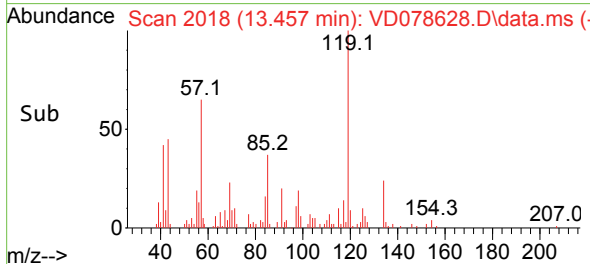
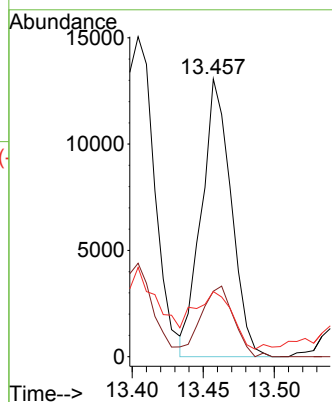
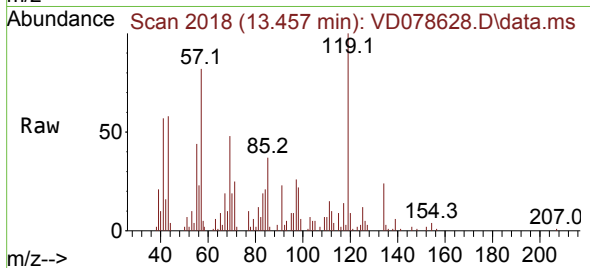
Tgt Ion:119 Resp: 18978

Ion Ratio Lower Upper

119 100

134 27.9 14.2 42.6

91 26.6 10.5 31.5



#89

n-Butylbenzene

Concen: 2.532 ug/l

RT: 13.757 min Scan# 2069

Delta R.T. -0.029 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

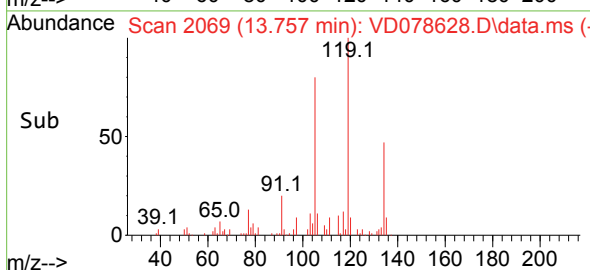
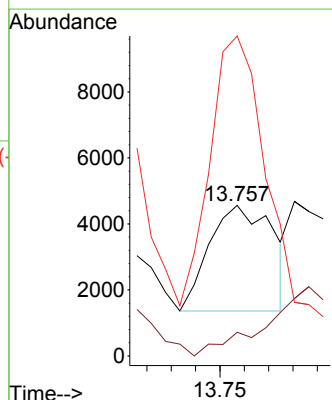
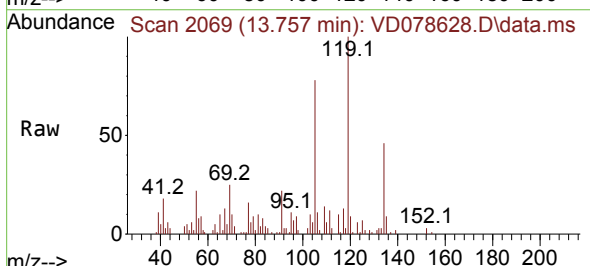
Tgt Ion: 91 Resp: 5800

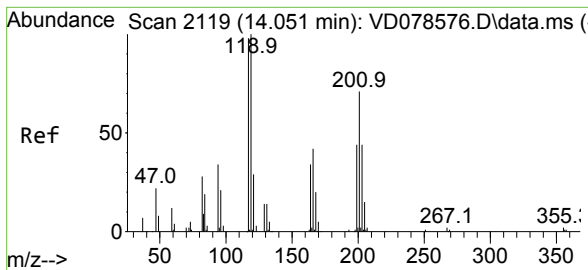
Ion Ratio Lower Upper

91 100

92 0.0 26.5 79.5#

134 309.2 13.8 41.3#

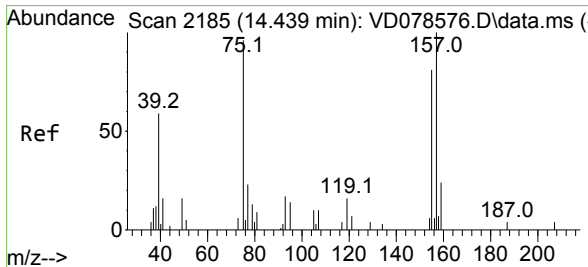
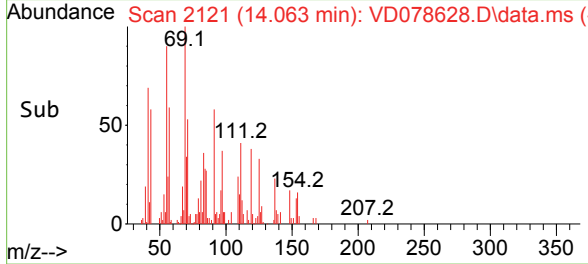
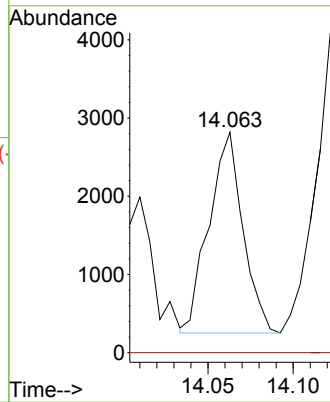
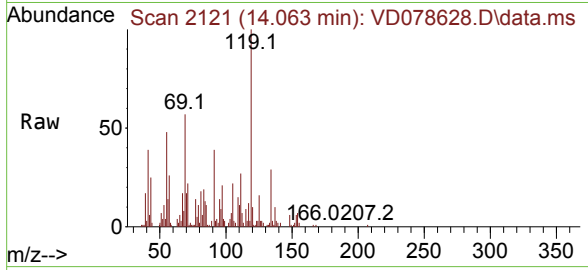




#90
Hexachloroethane
Concen: 7.152 ug/l
RT: 14.063 min Scan# 2119
Delta R.T. 0.012 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

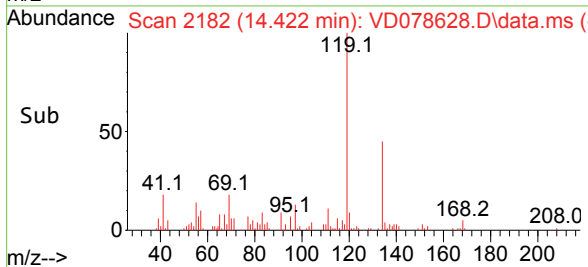
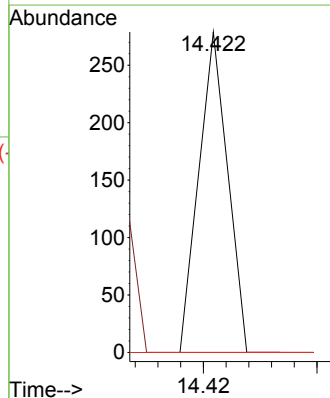
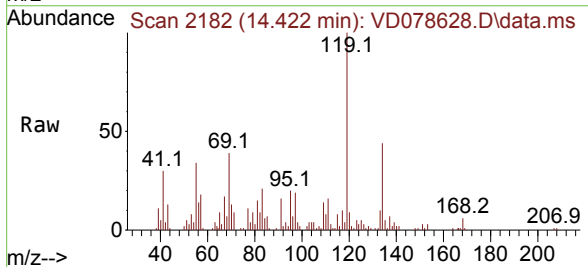
Instrument :
MSVOA_D
ClientSampleId :
RT4196RE

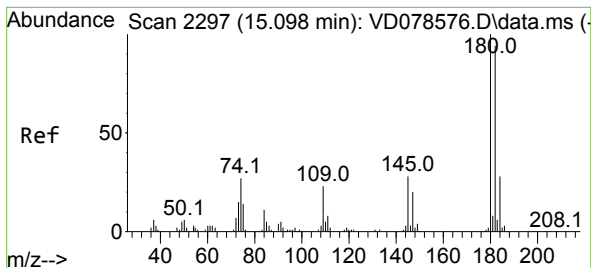
Tgt Ion:117 Resp: 3565
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.441 ug/l
RT: 14.422 min Scan# 2182
Delta R.T. -0.017 min
Lab File: VD078628.D
Acq: 11 Mar 2024 13:21

Tgt Ion: 75 Resp: 98
Ion Ratio Lower Upper
75 100
155 0.0 47.9 143.8#
157 0.0 59.9 179.7#





#93

1,2,4-Trichlorobenzene

Concen: 1.461 ug/l

RT: 15.110 min Scan# 21

Delta R.T. 0.012 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

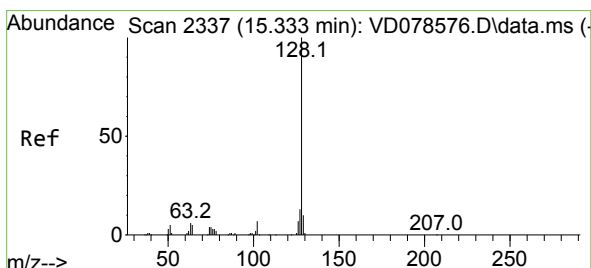
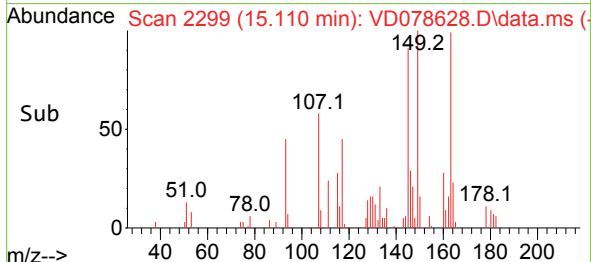
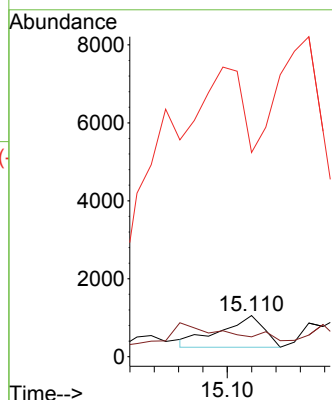
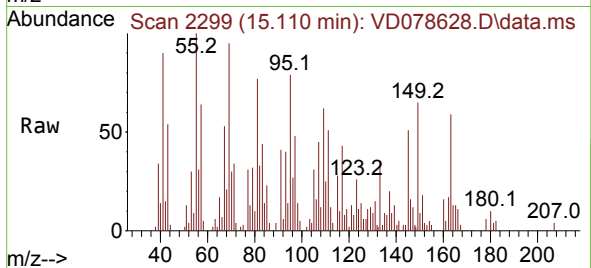
Instrument :

MSVOA_D

ClientSampleId :

RT4196RE

Tgt Ion:180 Resp: 1012
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.5 145.6#
 145 1919.4 14.2 42.6#



#95

Naphthalene

Concen: 5.881 ug/l

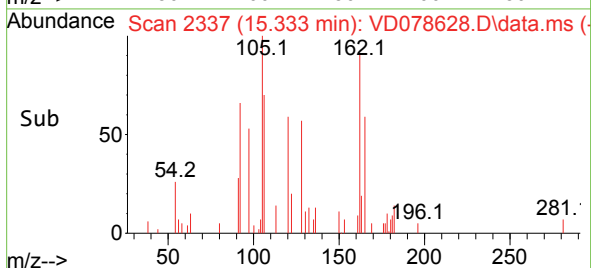
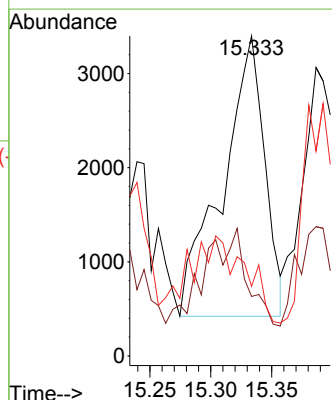
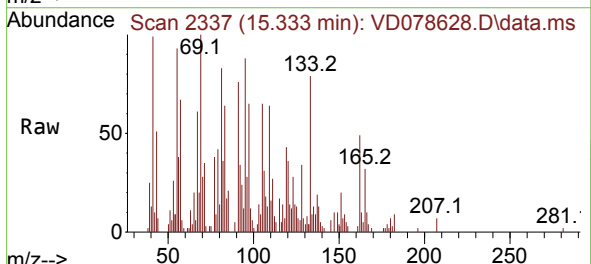
RT: 15.333 min Scan# 2337

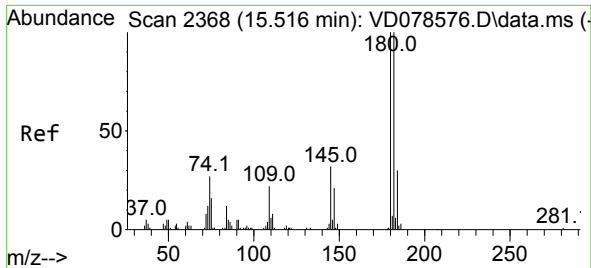
Delta R.T. 0.000 min

Lab File: VD078628.D

Acq: 11 Mar 2024 13:21

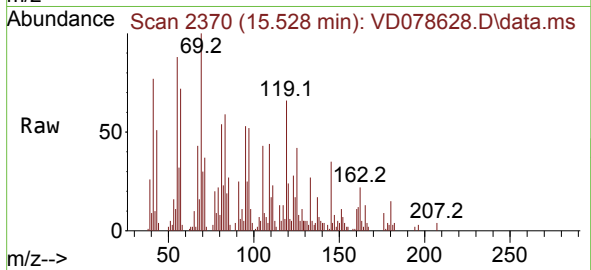
Tgt Ion:128 Resp: 7196
 Ion Ratio Lower Upper
 128 100
 127 18.6 10.5 15.7#
 129 21.7 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.447 ug/l
 RT: 15.528 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VD078628.D
 Acq: 11 Mar 2024 13:21

Instrument :
 MSVOA_D
 ClientSampleId :
 RT4196RE



Tgt Ion:	180	Resp:	1505
Ion Ratio	Lower	Upper	
180	100		
182	0.0	47.3	141.9#
145	0.0	15.1	45.3#

