

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121523\
 Data File : VD077910.D
 Acq On : 15 Dec 2023 18:12
 Operator : RP/MD
 Sample : 05803-01
 Misc : 4.09G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 04:05:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

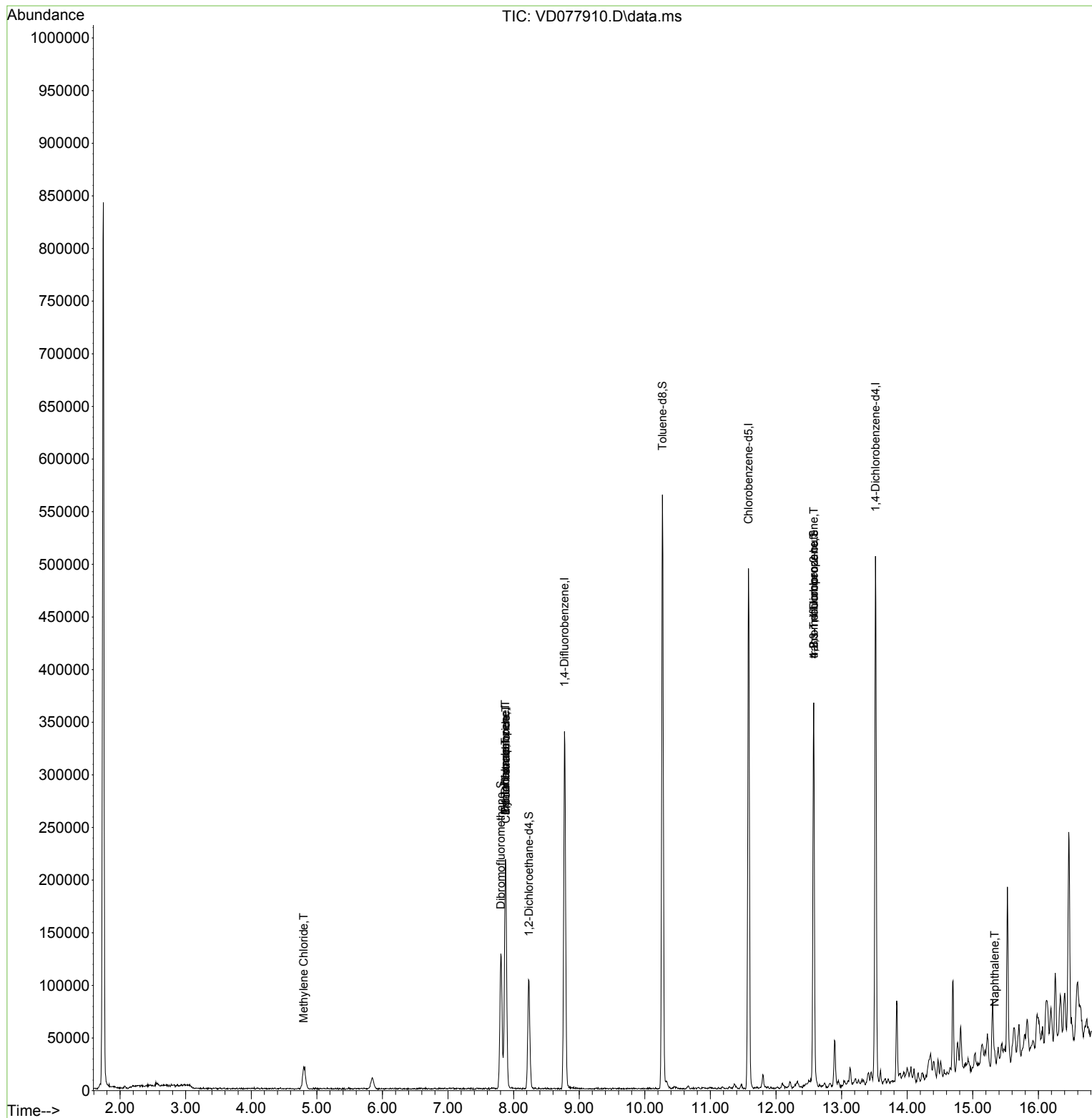
Internal Standards						
1) Pentafluorobenzene	7.875	168	167350	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	303229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	287349	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	127262	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	80087	40.613	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.220%
35) Dibromofluoromethane	7.805	113	92186	43.402	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	86.800%
50) Toluene-d8	10.269	98	391856	46.063	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.120%
62) 4-Bromofluorobenzene	12.575	95	111070	43.670	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	87.340%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.952	59	64	Below Cal	#	73
16) Acetone	4.022	43	185	Below Cal	#	32
20) Methylene Chloride	4.799	84	16225	2.329	ug/l	91
25) 2-Butanone	7.087	43	64	Below Cal	#	37
31) Cyclohexane	7.875	56	3909	1.114	ug/l	# 19
36) 1,1-Dichloropropene	7.875	75	13207	3.887	ug/l	# 49
38) Carbon Tetrachloride	7.881	117	16904	4.991	ug/l	# 18
65) Chlorobenzene	11.598	112	57	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.575	75	57697	52.201	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.575	75	57697	105.764	ug/l	# 17
88) 1,4-Dichlorobenzene	13.516	146	210	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropr...	14.387	75	66	Below Cal	#	1
95) Naphthalene	15.334	128	5312	1.186	ug/l	# 82

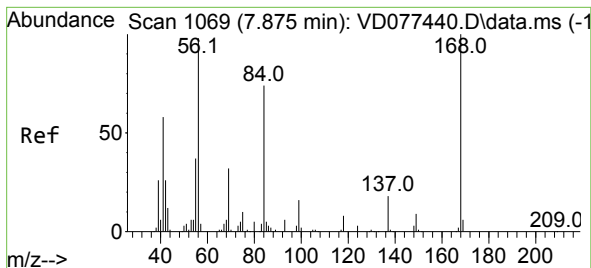
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 14 14:48:10 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

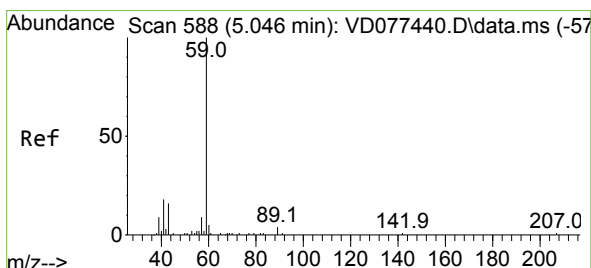
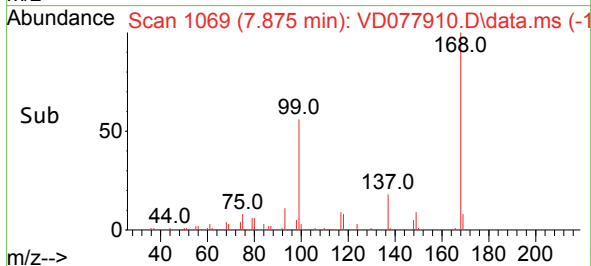
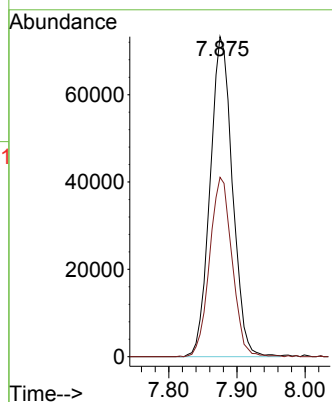
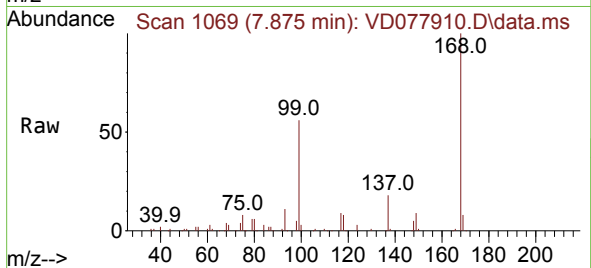
ClientSampleId :

Tgt Ion:168 Resp: 167350

Ion Ratio Lower Upper

168 100

99 55.8 36.7 55.1#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.952 min Scan# 572

Delta R.T. -0.094 min

Lab File: VD077910.D

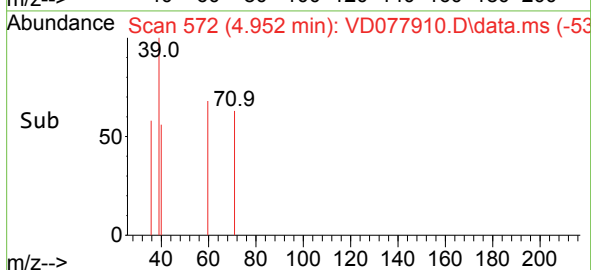
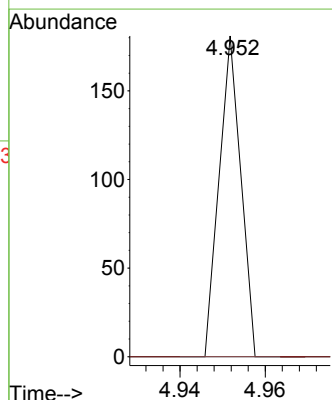
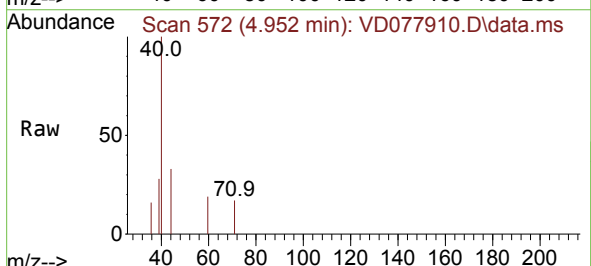
Acq: 15 Dec 2023 18:12

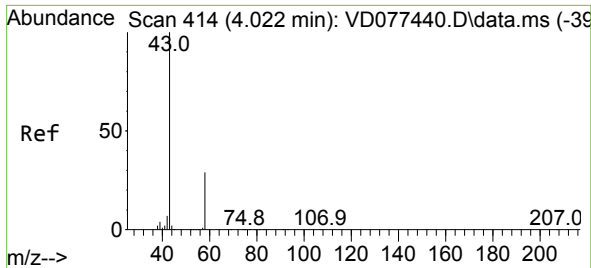
Tgt Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#16

Acetone

Concen: Below Cal

RT: 4.022 min Scan# 41

Delta R.T. 0.000 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

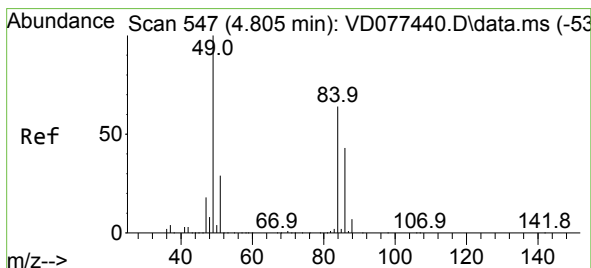
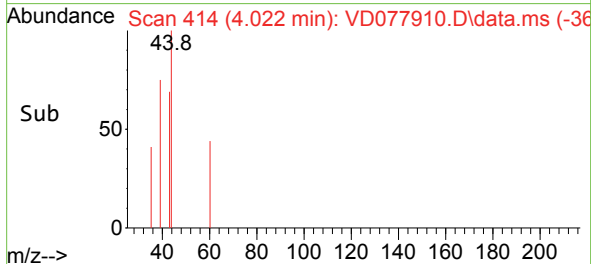
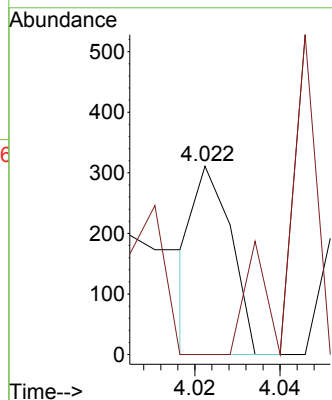
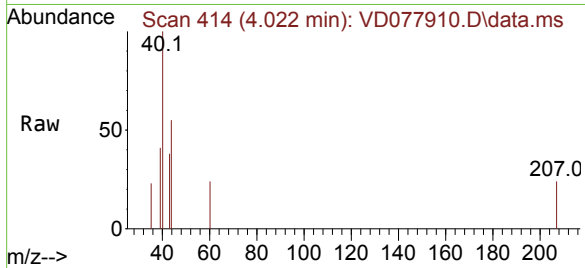
ClientSampleId :

Tgt Ion: 43 Resp: 185

Ion Ratio Lower Upper

43 100

58 0.0 34.7 52.1#



#20

Methylene Chloride

Concen: 2.329 ug/l

RT: 4.799 min Scan# 546

Delta R.T. -0.006 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Tgt Ion: 84 Resp: 16225

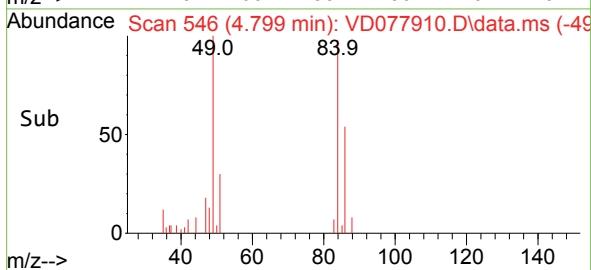
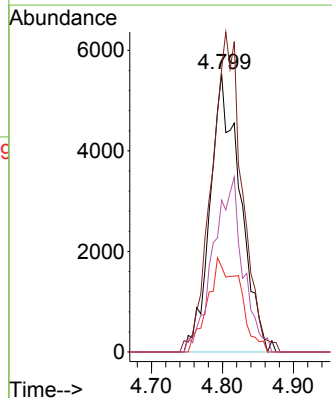
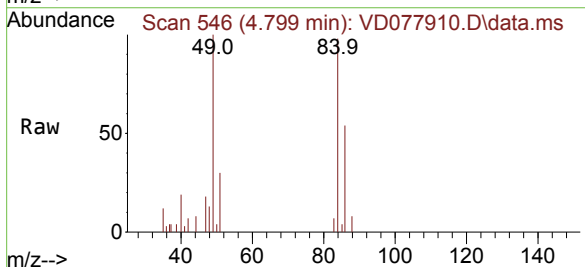
Ion Ratio Lower Upper

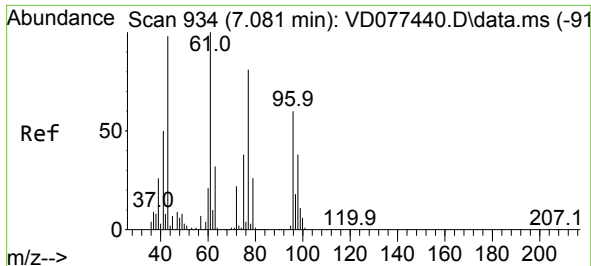
84 100

49 101.8 71.4 107.2

51 30.6 24.5 36.7

86 54.6 48.7 73.1

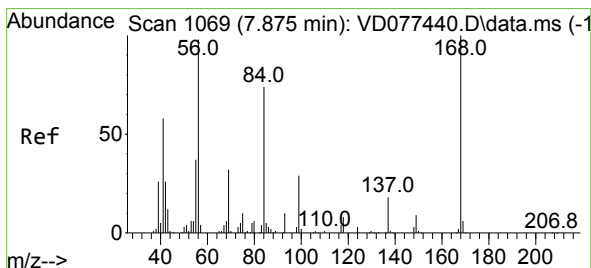
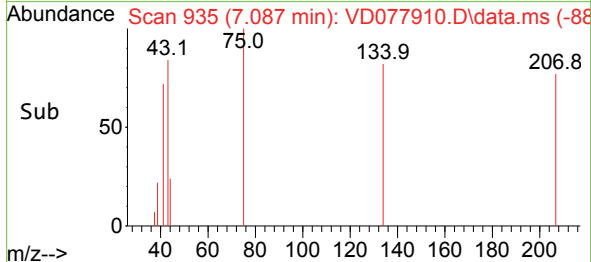
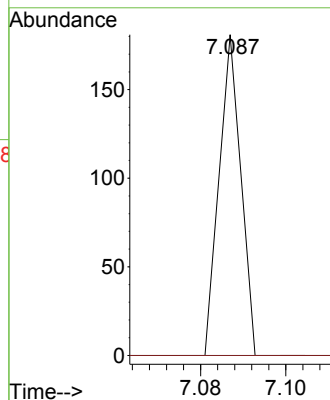
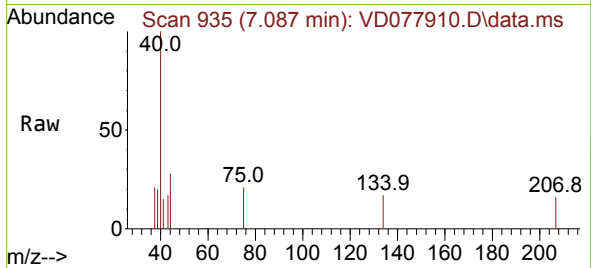




#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12

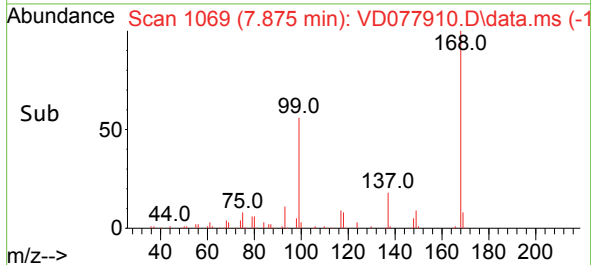
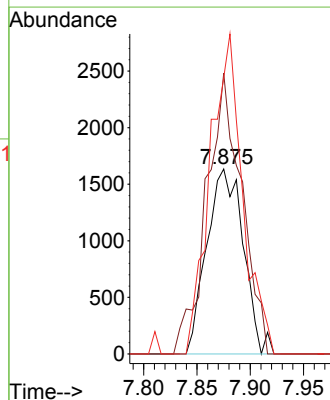
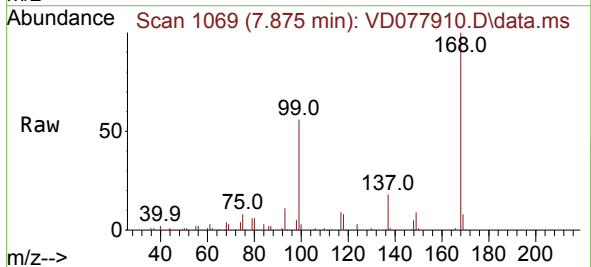
Instrument :
MSVOA_D
ClientSampleId :

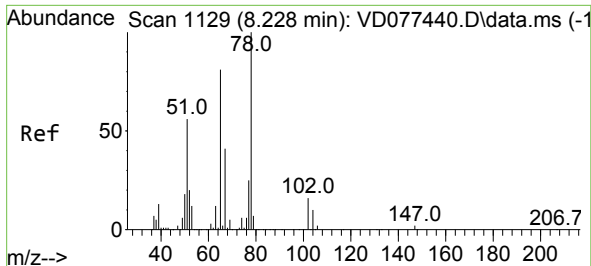
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#31
Cyclohexane
Concen: 1.114 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12

Tgt Ion: 56 Resp: 3909
Ion Ratio Lower Upper
56 100
69 151.8 28.6 43.0#
84 149.2 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 40.613 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

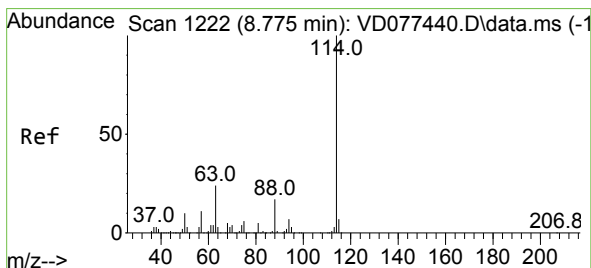
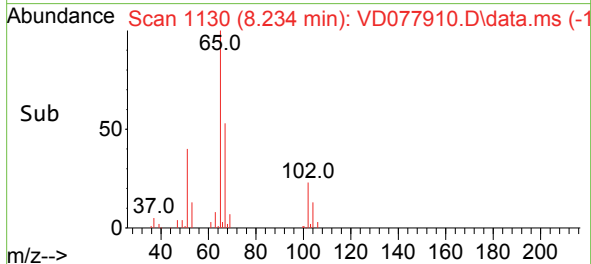
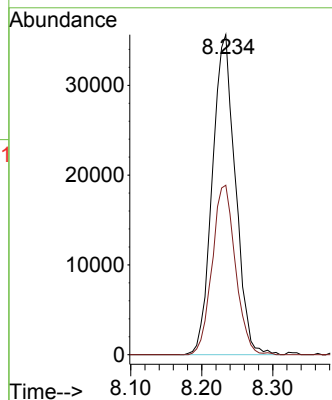
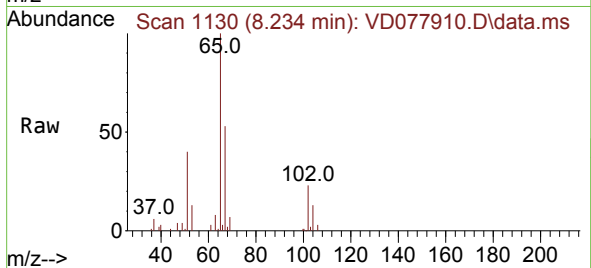
ClientSampleId :

Tgt Ion: 65 Resp: 80087

Ion Ratio Lower Upper

65 100

67 53.6 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

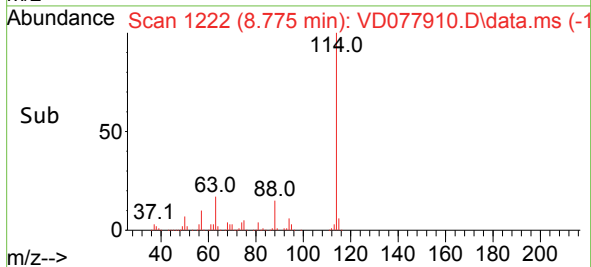
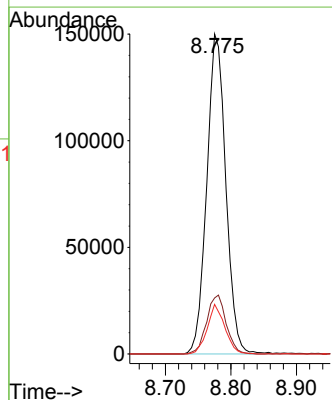
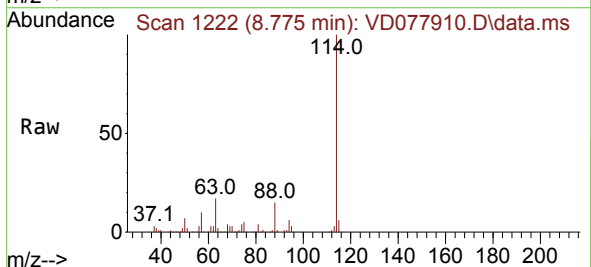
Tgt Ion: 114 Resp: 303229

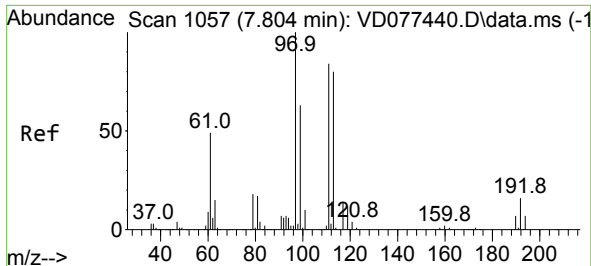
Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.4

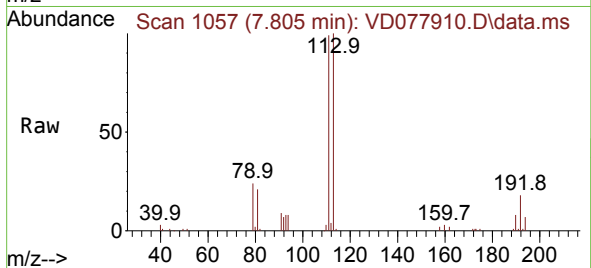
88 15.5 0.0 26.2



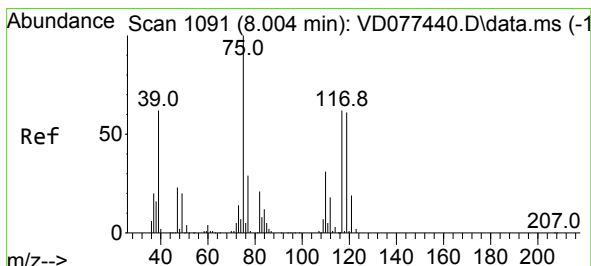
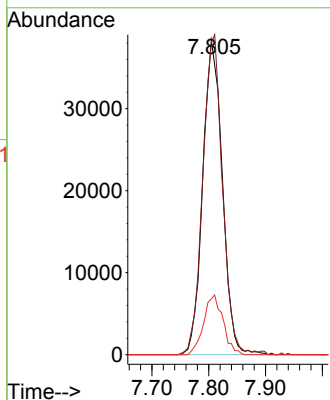
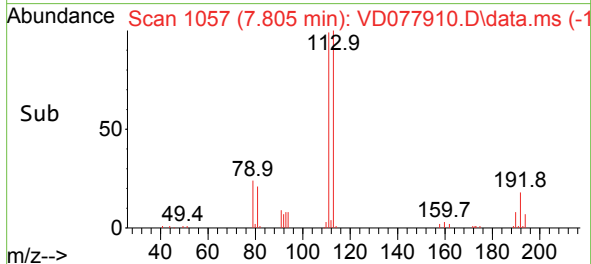


#35
Dibromofluoromethane
Concen: 43.402 ug/l
RT: 7.805 min Scan# 1069
Delta R.T. 0.001 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12

Instrument :
MSVOA_D
ClientSampleId :

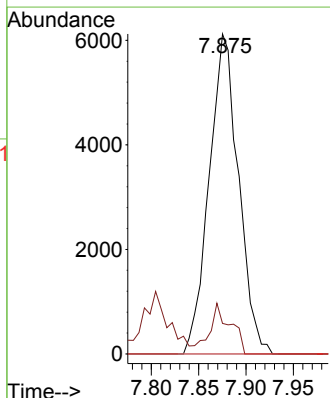
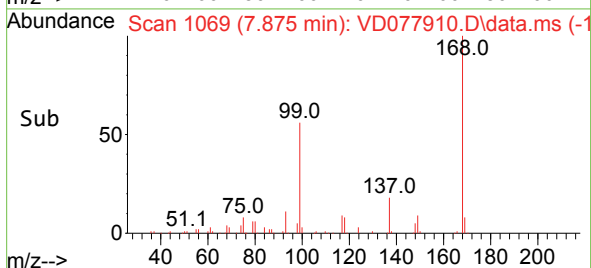
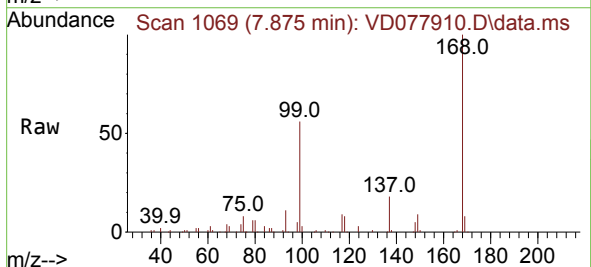


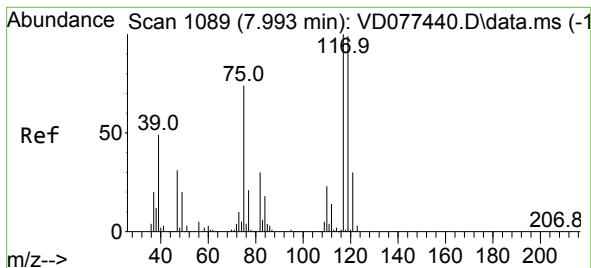
Tgt Ion:113 Resp: 92186
Ion Ratio Lower Upper
113 100
111 100.9 84.7 127.1
192 18.7 16.8 25.2



#36
1,1-Dichloropropene
Concen: 3.887 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12

Tgt Ion: 75 Resp: 13207
Ion Ratio Lower Upper
75 100
110 11.1 19.9 59.6#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 4.991 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

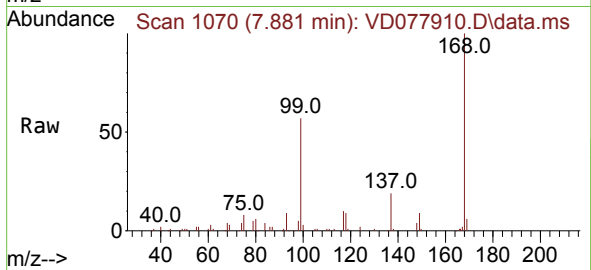
Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

ClientSampleId :



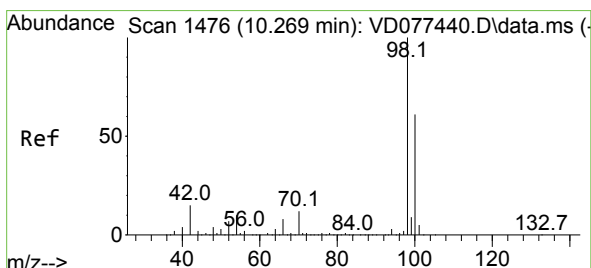
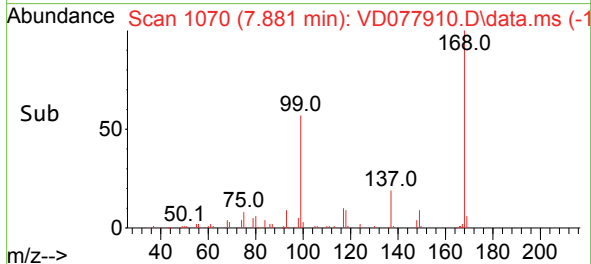
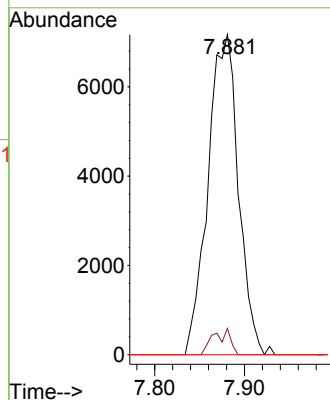
Tgt Ion:117 Resp: 16904

Ion Ratio Lower Upper

117 100

119 8.2 78.0 117.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 46.063 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077910.D

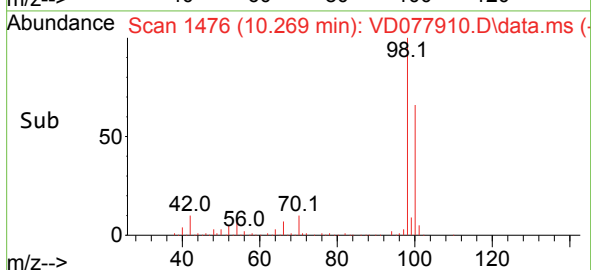
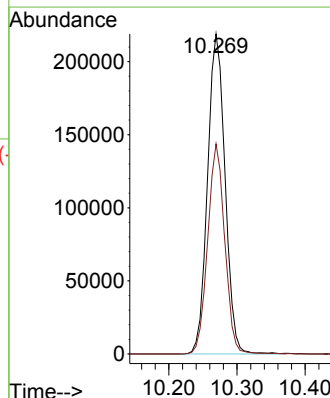
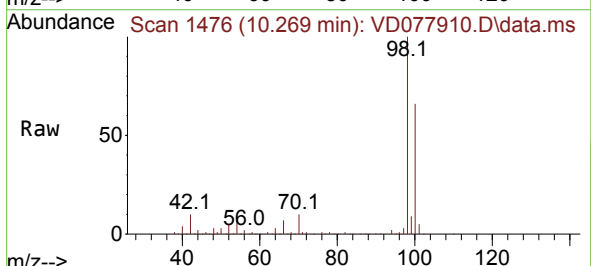
Acq: 15 Dec 2023 18:12

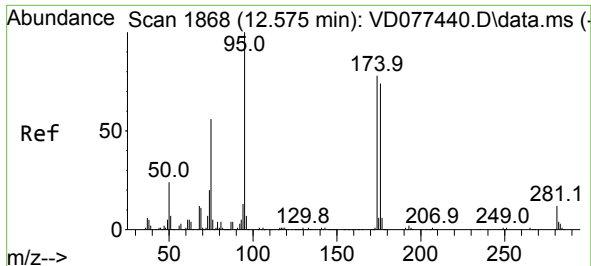
Tgt Ion: 98 Resp: 391856

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5





#62

4-Bromofluorobenzene

Concen: 43.670 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

ClientSampleId :

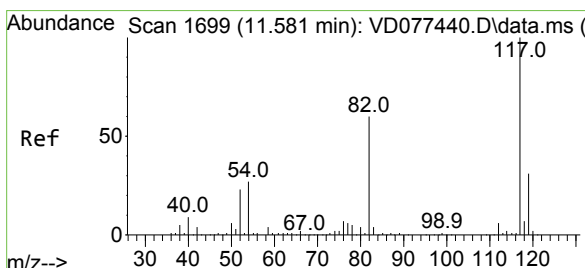
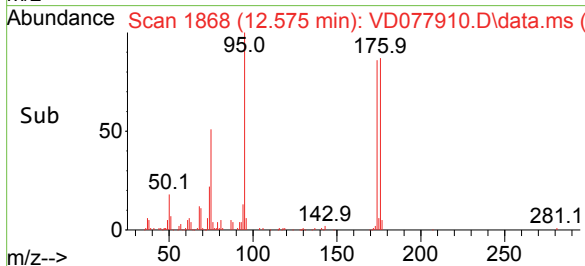
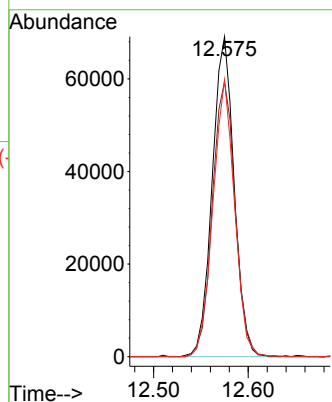
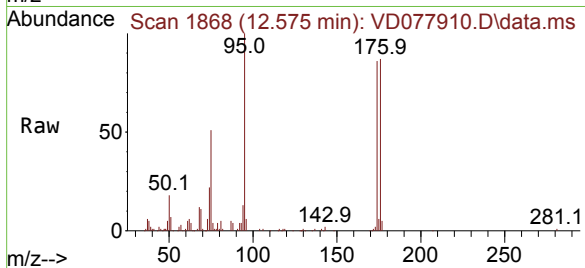
Tgt Ion: 95 Resp: 111070

Ion Ratio Lower Upper

95 100

174 89.3 0.0 201.8

176 85.3 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: VD077910.D

Acq: 15 Dec 2023 18:12

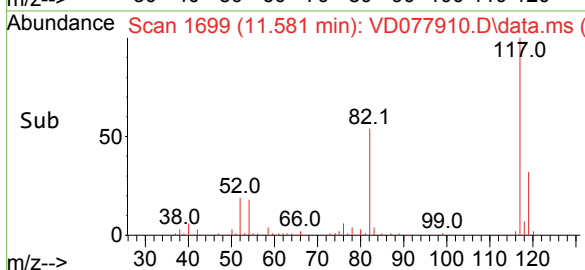
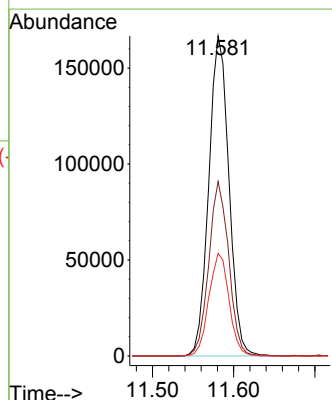
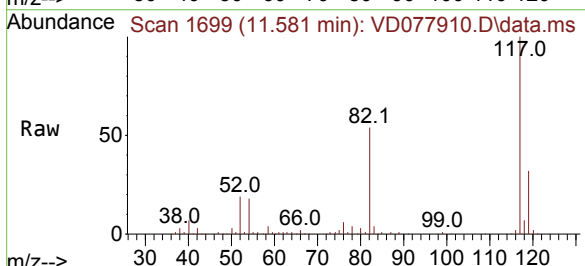
Tgt Ion: 117 Resp: 287349

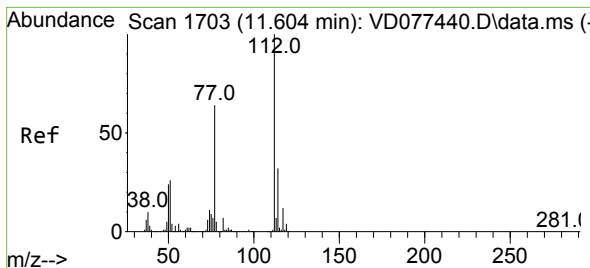
Ion Ratio Lower Upper

117 100

82 54.5 38.3 57.5

119 32.1 25.0 37.4





#65

Chlorobenzene

Concen: Below Cal

RT: 11.598 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

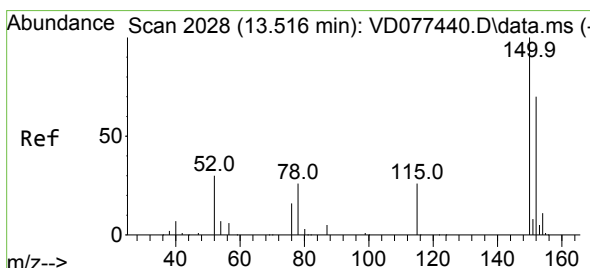
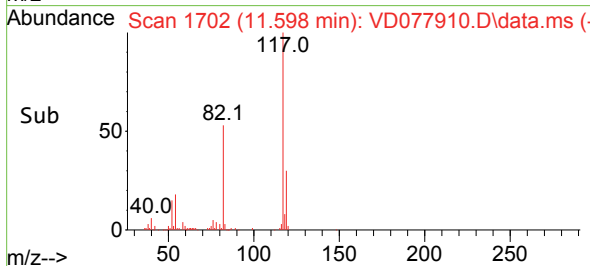
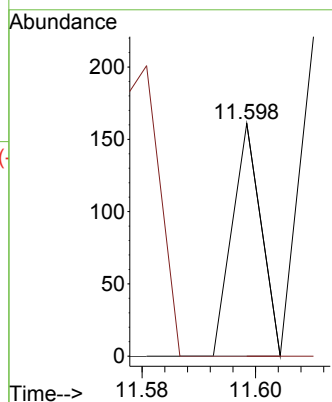
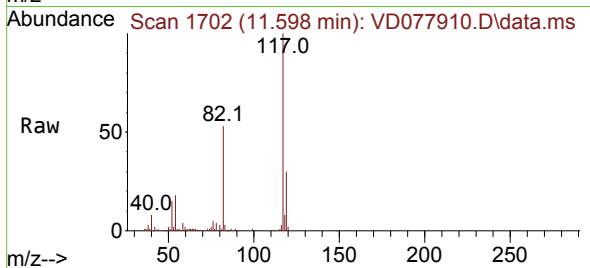
ClientSampleId :

Tgt Ion:112 Resp: 57

Ion Ratio Lower Upper

112 100

114 0.0 25.1 37.7#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. -0.000 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

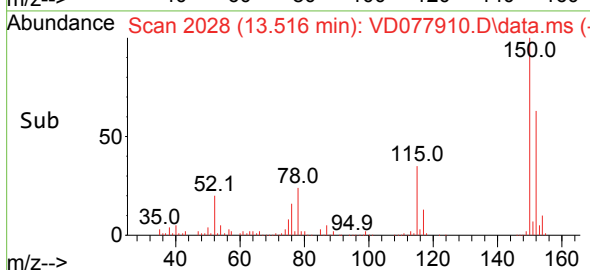
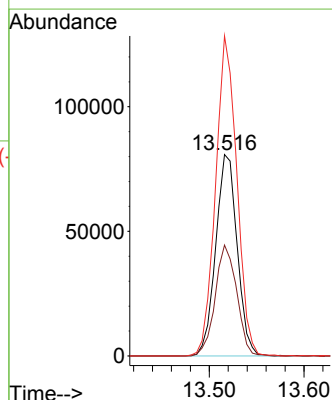
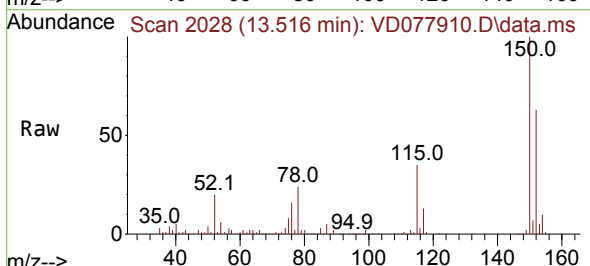
Tgt Ion:152 Resp: 127262

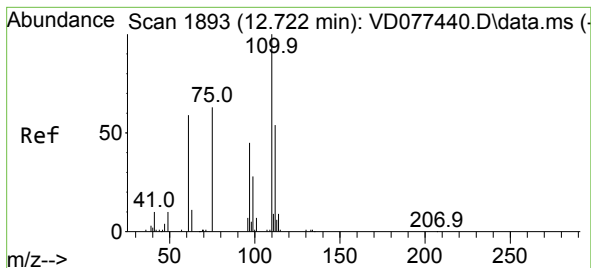
Ion Ratio Lower Upper

152 100

115 55.4 27.1 81.3

150 157.1 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 52.201 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

Instrument :

MSVOA_D

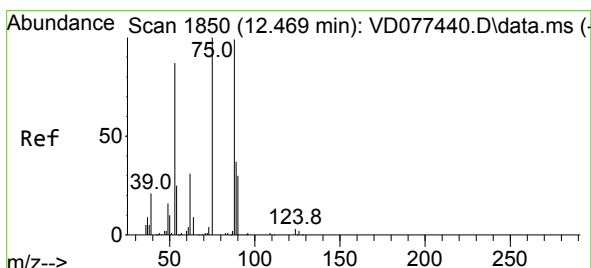
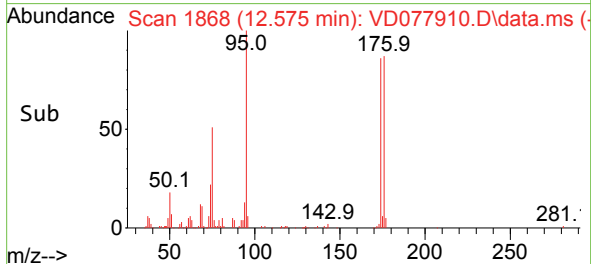
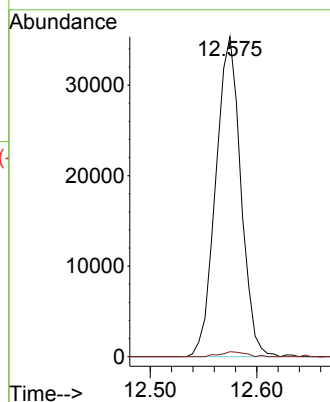
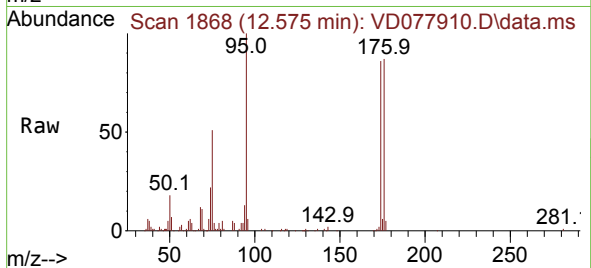
ClientSampleId :

Tgt Ion: 75 Resp: 57697

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 105.764 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. 0.106 min

Lab File: VD077910.D

Acq: 15 Dec 2023 18:12

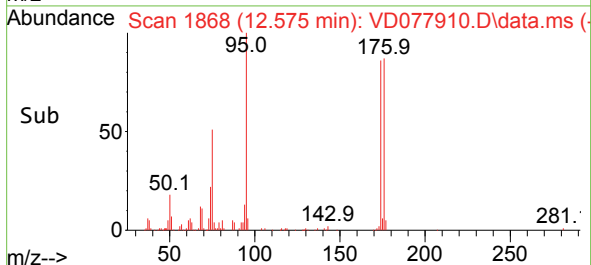
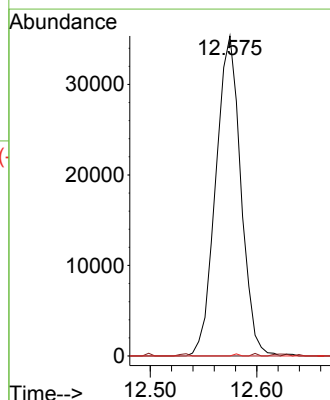
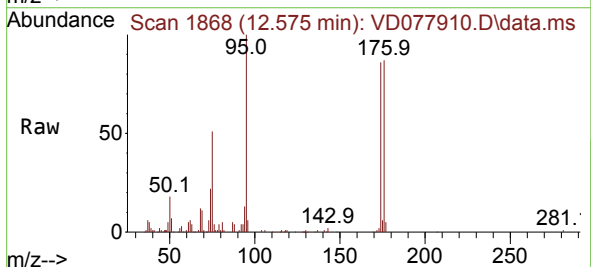
Tgt Ion: 75 Resp: 57697

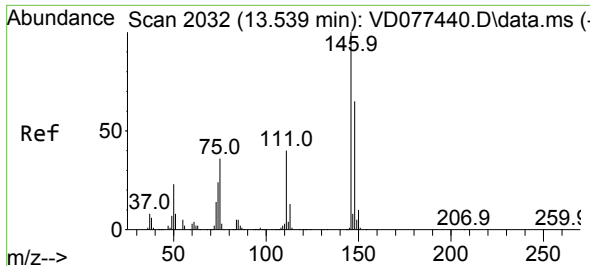
Ion Ratio Lower Upper

75 100

53 0.0 63.0 94.4#

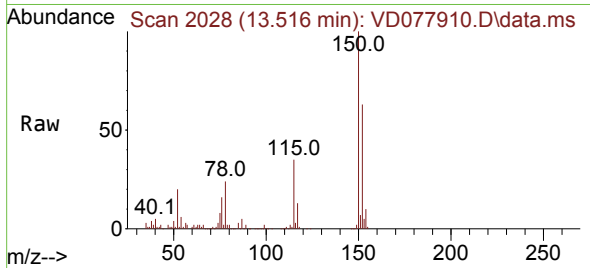
89 0.1 37.9 56.9#



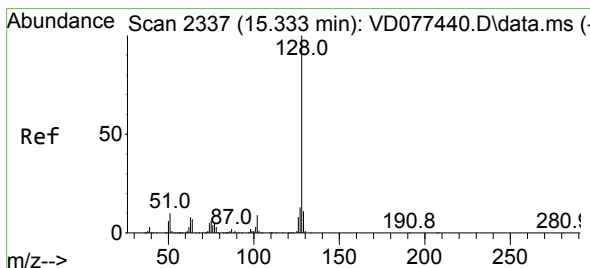
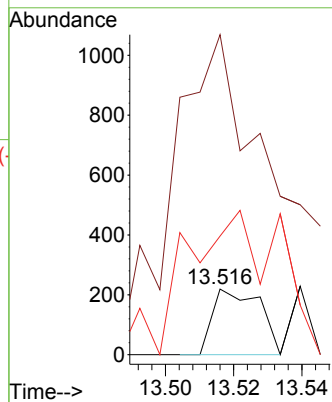
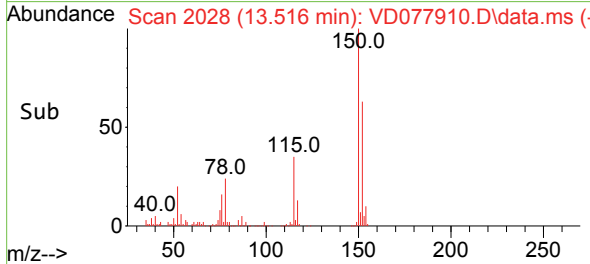


#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.516 min Scan# 2032
Delta R.T. -0.023 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12

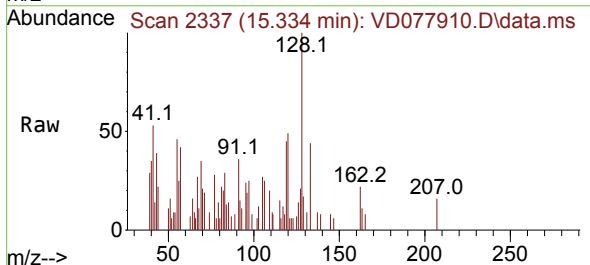
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:146 Resp: 210
Ion Ratio Lower Upper
146 100
111 1127.6 17.4 52.3#
148 440.5 31.7 95.1#



#95
Naphthalene
Concen: 1.186 ug/l
RT: 15.334 min Scan# 2337
Delta R.T. 0.001 min
Lab File: VD077910.D
Acq: 15 Dec 2023 18:12



Tgt Ion:128 Resp: 5312
Ion Ratio Lower Upper
128 100
127 21.1 10.5 15.7#
129 16.5 8.7 13.1#

