

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102023\
 Data File : VD077373.D
 Acq On : 20 Oct 2023 19:08
 Operator : JC/SY
 Sample : 04936-07RE
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 21 05:32:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D101723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 18 03:02:43 2023
 Response via : Initial Calibration

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

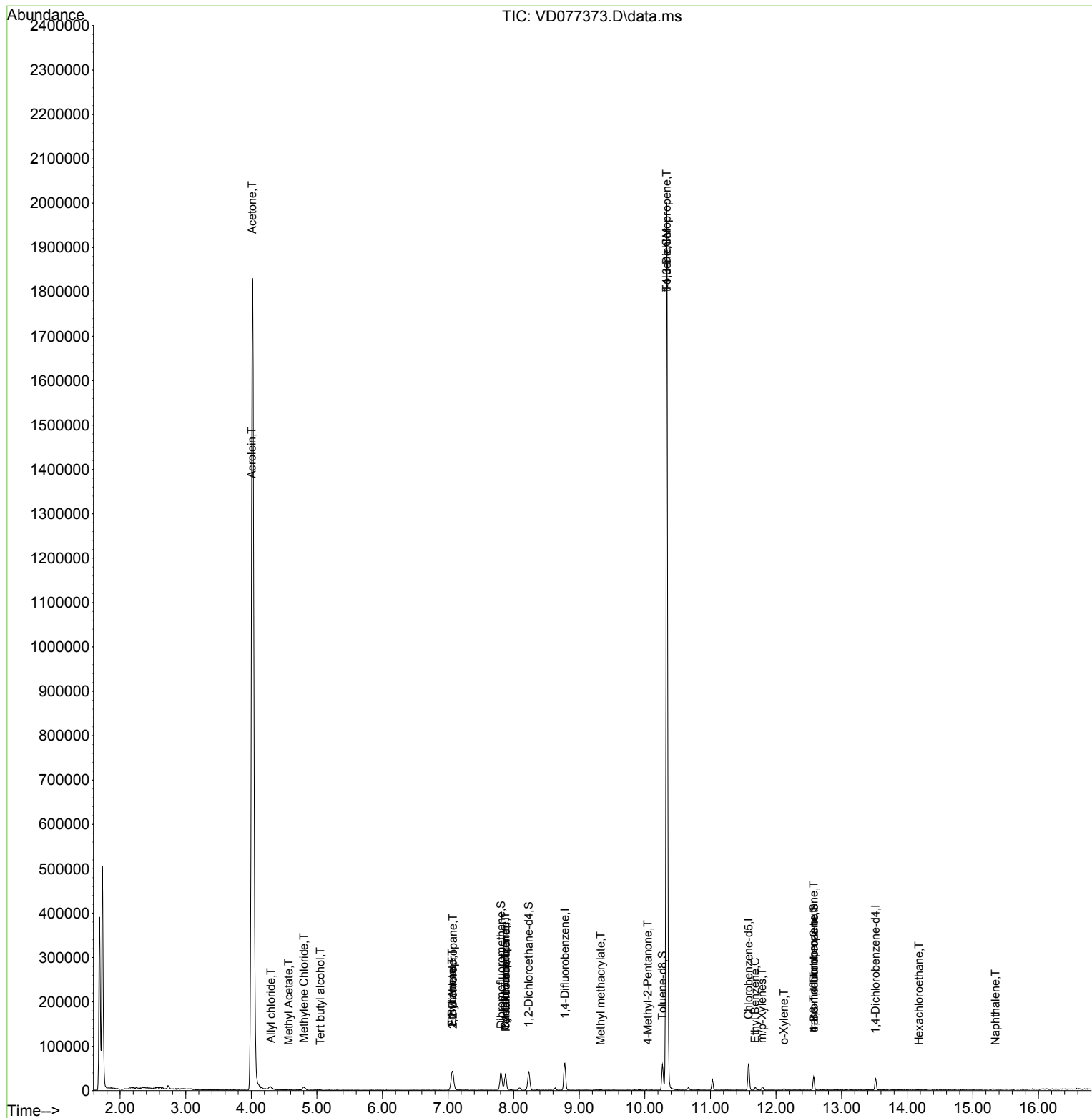
Internal Standards						
1) Pentafluorobenzene	7.881	168	25549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	58164	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	38353	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	7720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	31867	139.683	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 279.360%#			
35) Dibromofluoromethane	7.810	113	29583	72.396	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 144.800%			
50) Toluene-d8	10.269	98	41039	28.043	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 56.080%#			
62) 4-Bromofluorobenzene	12.575	95	8446	20.049	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 40.100%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.052	59	400	31.168	ug/l #	73
13) Acrolein	4.005	56	488	21.905	ug/l #	1
14) Allyl chloride	4.299	41	1087	3.894	ug/l #	19
16) Acetone	4.016	43	2967350	59314.092	ug/l	97
18) Methyl Acetate	4.569	43	677	3.888	ug/l	95
20) Methylene Chloride	4.805	84	6440	18.239	ug/l #	87
25) 2-Butanone	7.063	43	1934	37.267	ug/l	99
26) 2,2-Dichloropropane	7.075	77	3364	8.099	ug/l #	49
31) Cyclohexane	7.875	56	774	2.181	ug/l #	54
36) 1,1-Dichloropropene	7.875	75	1777	3.310	ug/l #	39
37) Ethyl Acetate	7.063	43	1934	11.467	ug/l #	1
38) Carbon Tetrachloride	7.875	117	2802	4.691	ug/l #	21
48) Methyl methacrylate	9.328	41	323	2.352	ug/l #	19
51) 4-Methyl-2-Pentanone	10.046	43	792	5.204	ug/l #	28
52) Toluene	10.334	92	859139	807.556	ug/l	97
53) t-1,3-Dichloropropene	10.334	75	8674	17.258	ug/l #	1
67) Ethyl Benzene	11.681	91	4417	3.187	ug/l #	85
68) m/p-Xylenes	11.787	106	2489	4.374	ug/l	100
69) o-Xylene	12.122	106	933	1.781	ug/l	88
76) 1,2,3-Trichloropropane	12.575	75	4077	39.509	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	4077	141.509	ug/l #	17
90) Hexachloroethane	14.181	117	143	1.448	ug/l #	11
95) Naphthalene	15.345	128	563	2.246	ug/l #	69

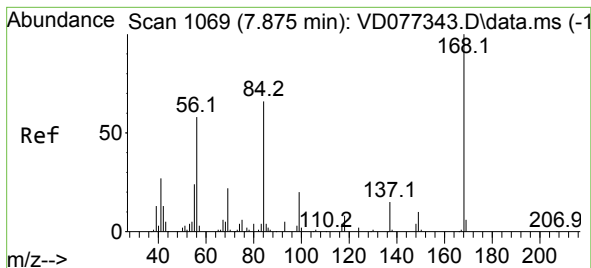
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 18 03:02:43 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

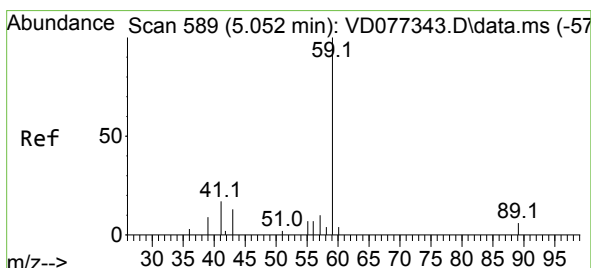
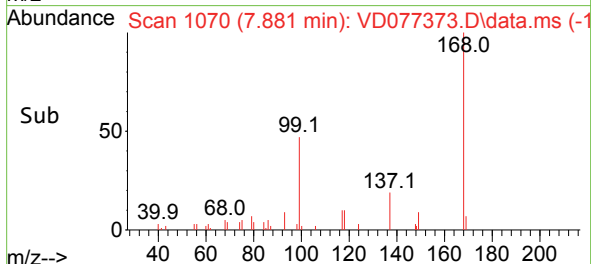
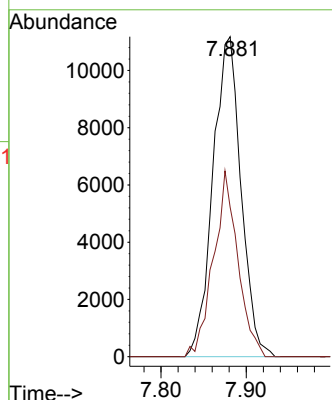
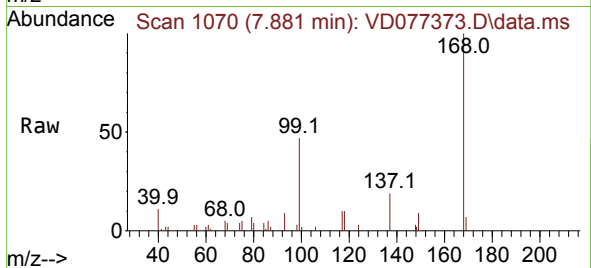
ClientSampleId :

Tgt Ion:168 Resp: 25549

Ion Ratio Lower Upper

168 100

99 46.7 36.7 55.1



#11

Tert butyl alcohol

Concen: 31.168 ug/l

RT: 5.052 min Scan# 589

Delta R.T. -0.000 min

Lab File: VD077373.D

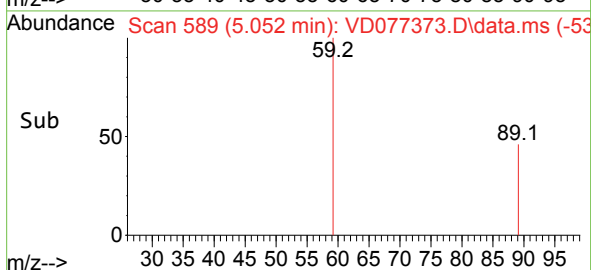
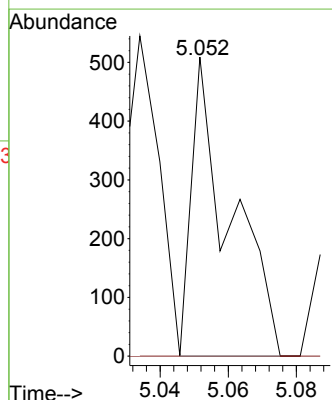
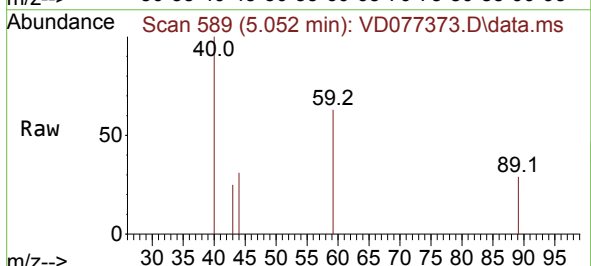
Acq: 20 Oct 2023 19:08

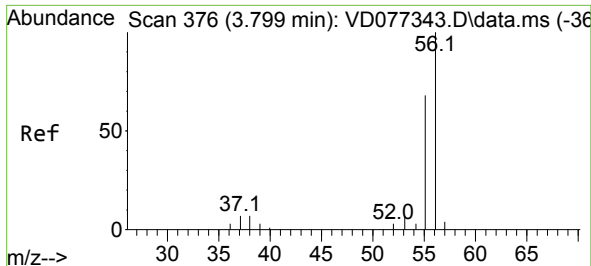
Tgt Ion: 59 Resp: 400

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#13

Acrolein

Concen: 21.905 ug/l

RT: 4.005 min Scan# 411

Delta R.T. 0.206 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

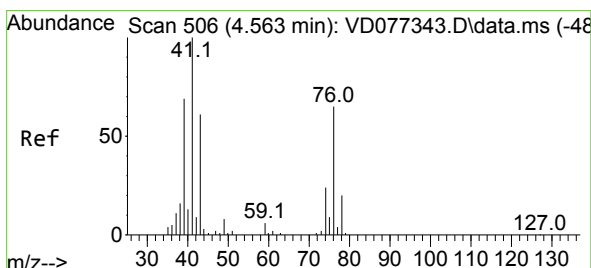
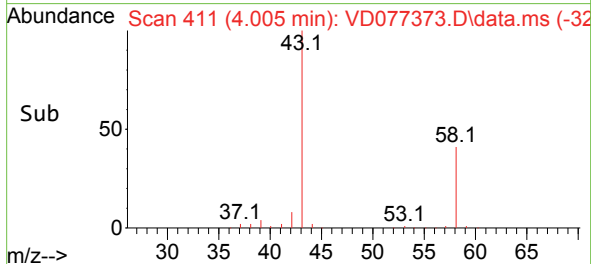
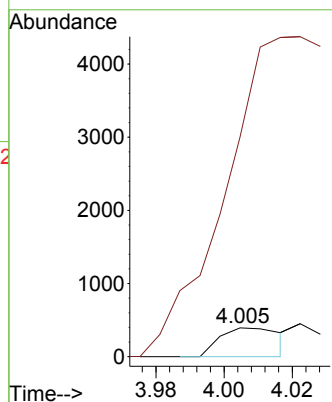
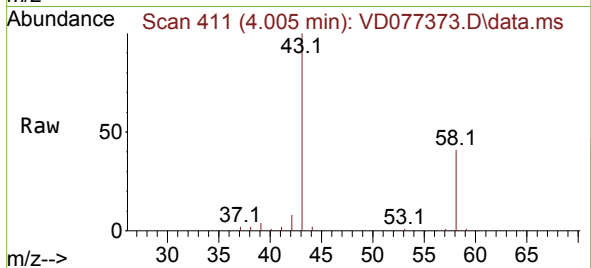
ClientSampleId :

Tgt Ion: 56 Resp: 488

Ion Ratio Lower Upper

56 100

55 2403.9 55.1 82.7#



#14

Allyl chloride

Concen: 3.894 ug/l

RT: 4.299 min Scan# 461

Delta R.T. -0.264 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

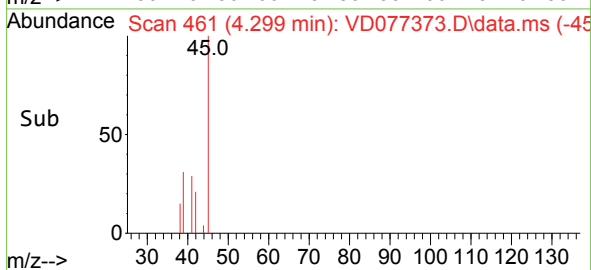
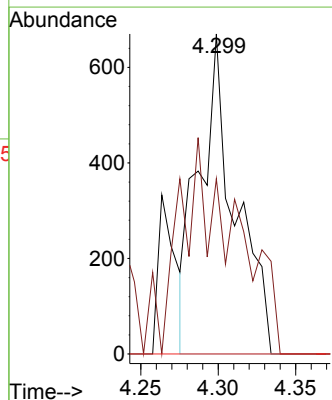
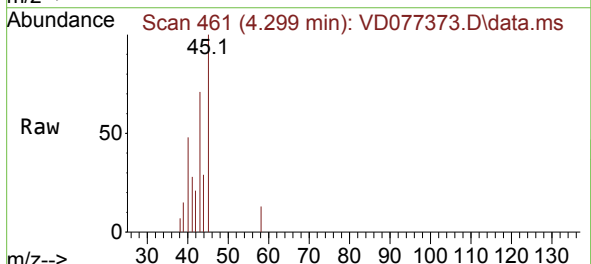
Tgt Ion: 41 Resp: 1087

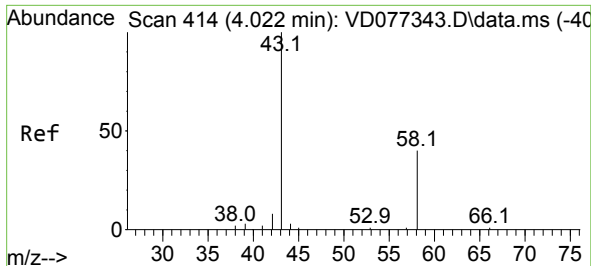
Ion Ratio Lower Upper

41 100

39 0.0 53.8 80.6#

76 0.0 45.8 68.8#

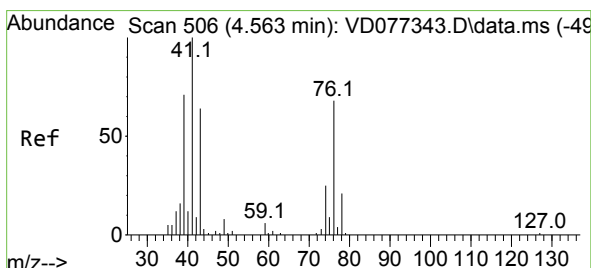
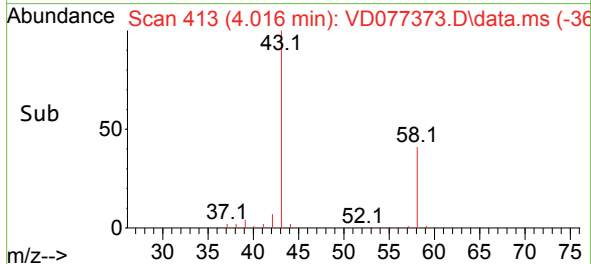
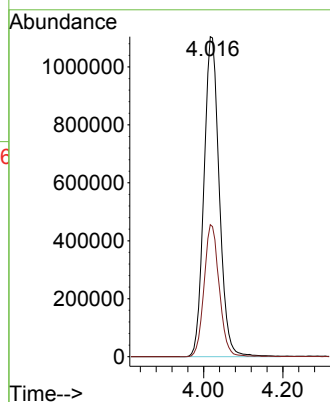
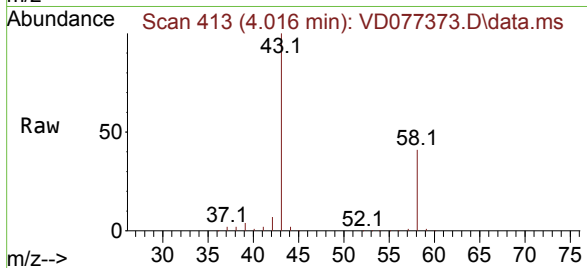




#16
Acetone
Concen: 59314.092 ug/l
RT: 4.016 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

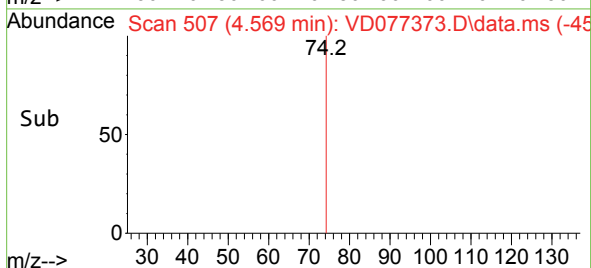
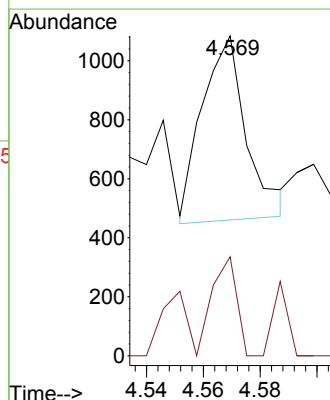
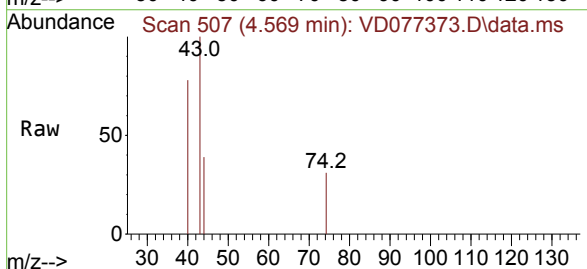
Instrument :
MSVOA_D
ClientSampleId :

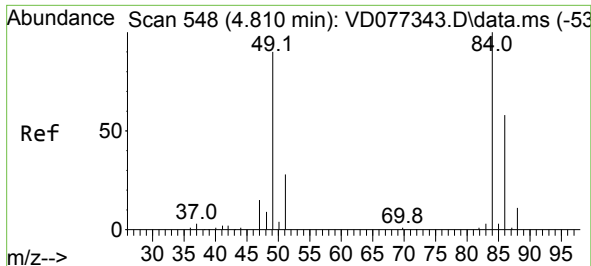
Tgt Ion: 43 Resp: 2967350
Ion Ratio Lower Upper
43 100
58 41.2 34.7 52.1



#18
Methyl Acetate
Concen: 3.888 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.006 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Tgt Ion: 43 Resp: 677
Ion Ratio Lower Upper
43 100
74 30.0 26.4 39.6





#20

Methylene Chloride

Concen: 18.239 ug/l

RT: 4.805 min Scan# 548

Delta R.T. -0.005 min

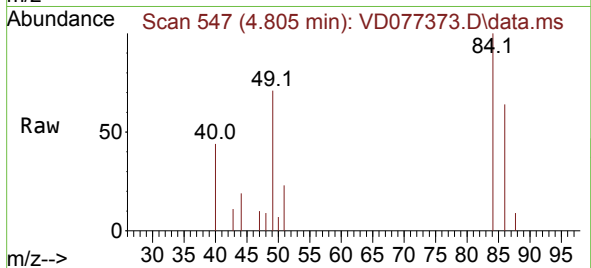
Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 84 Resp: 6440

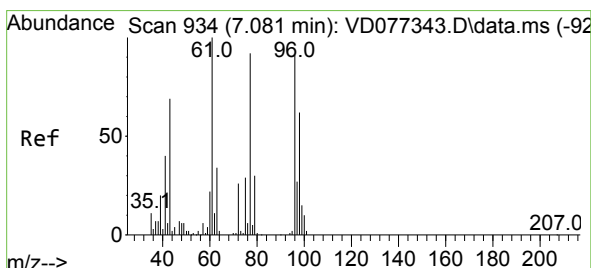
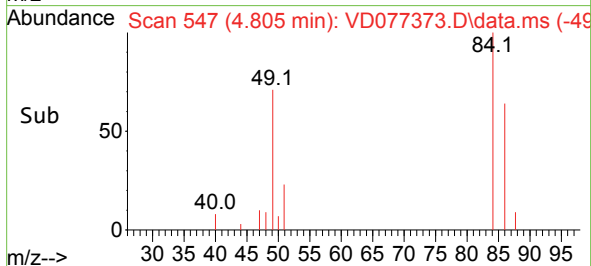
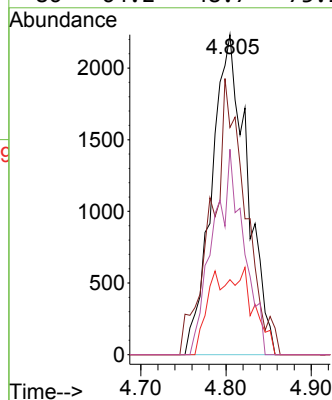
Ion Ratio Lower Upper

84 100

49 71.0 71.4 107.2#

51 23.5 24.5 36.7#

86 64.2 48.7 73.1



#25

2-Butanone

Concen: 37.267 ug/l

RT: 7.063 min Scan# 931

Delta R.T. -0.018 min

Lab File: VD077373.D

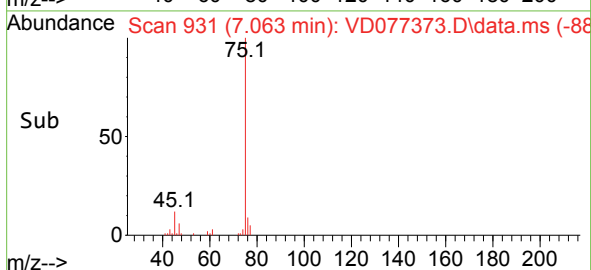
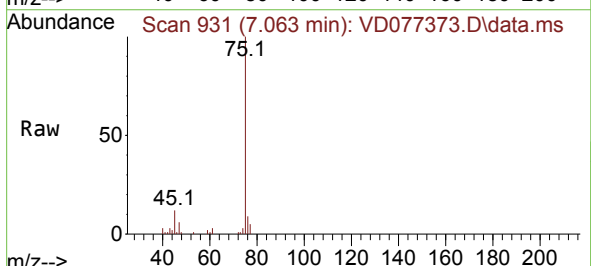
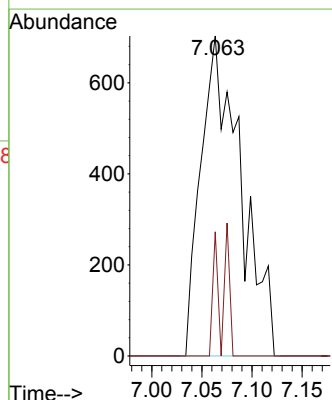
Acq: 20 Oct 2023 19:08

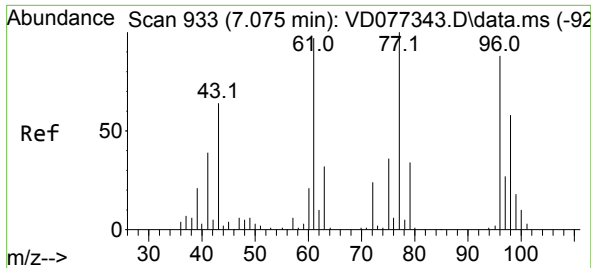
Tgt Ion: 43 Resp: 1934

Ion Ratio Lower Upper

43 100

72 38.8 30.7 46.1

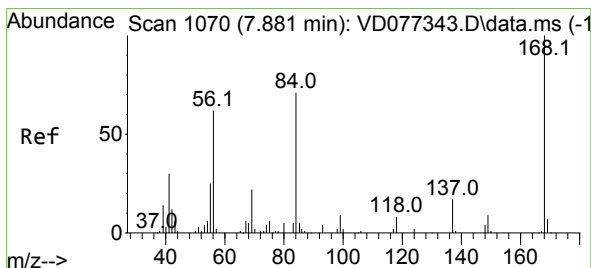
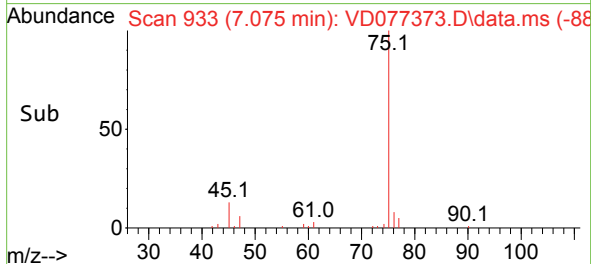
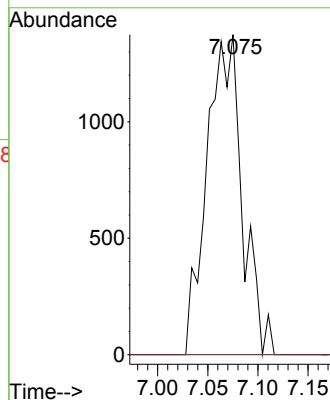
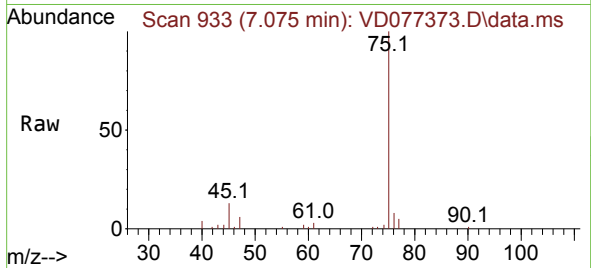




#26
2,2-Dichloropropane
Concen: 8.099 ug/l
RT: 7.075 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

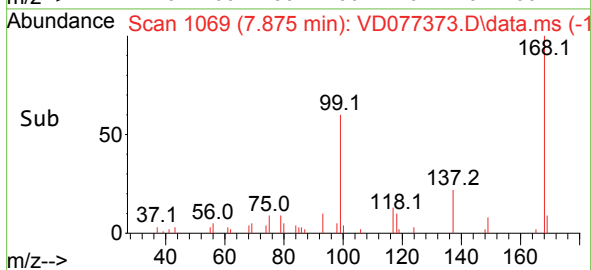
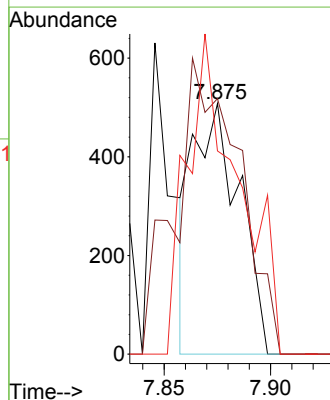
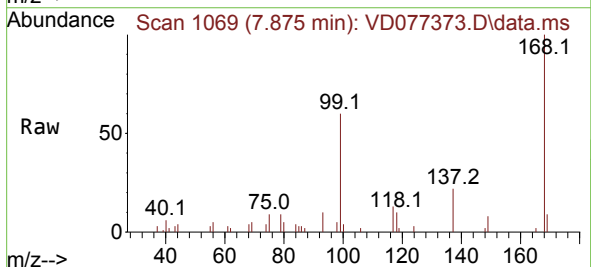
Instrument :
MSVOA_D
ClientSampleId :

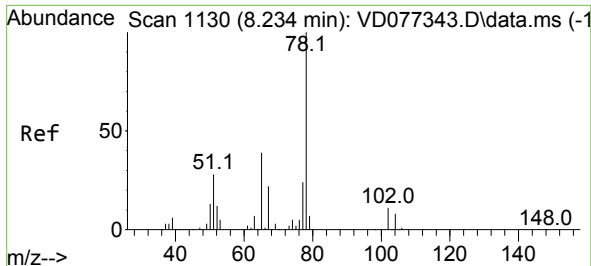
Tgt Ion: 77 Resp: 3364
Ion Ratio Lower Upper
77 100
97 0.0 13.2 39.6#



#31
Cyclohexane
Concen: 2.181 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Tgt Ion: 56 Resp: 774
Ion Ratio Lower Upper
56 100
69 102.0 28.6 43.0#
84 81.1 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 139.683 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

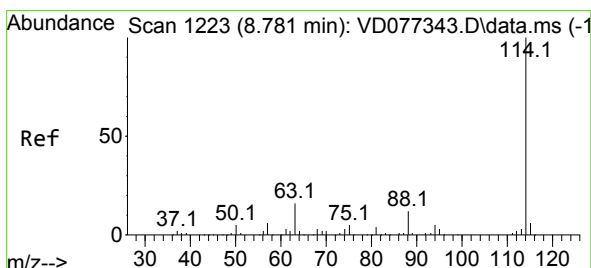
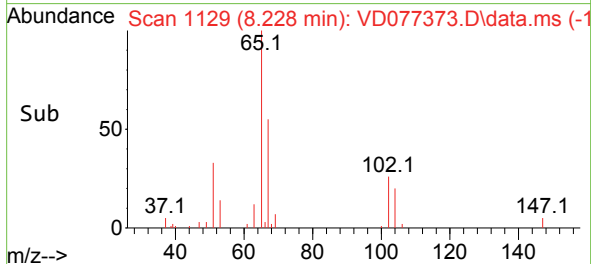
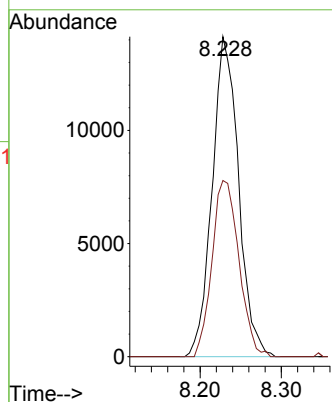
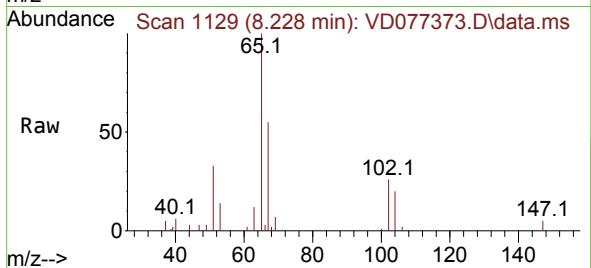
ClientSampleId :

Tgt Ion: 65 Resp: 31867

Ion Ratio Lower Upper

65 100

67 56.3 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. -0.000 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

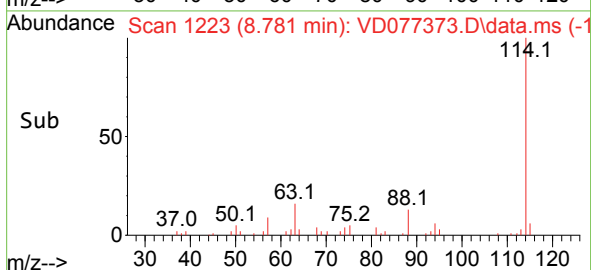
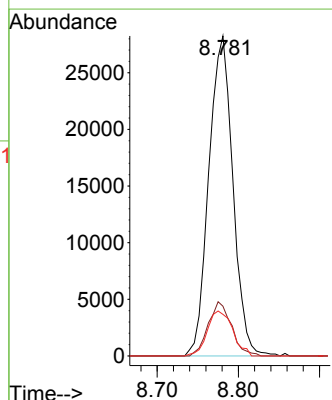
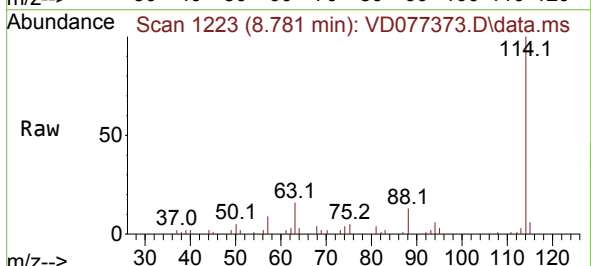
Tgt Ion: 114 Resp: 58164

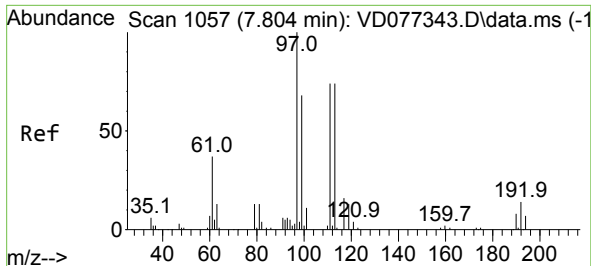
Ion Ratio Lower Upper

114 100

63 15.6 0.0 33.4

88 13.0 0.0 26.2





#35

Dibromofluoromethane

Concen: 72.396 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

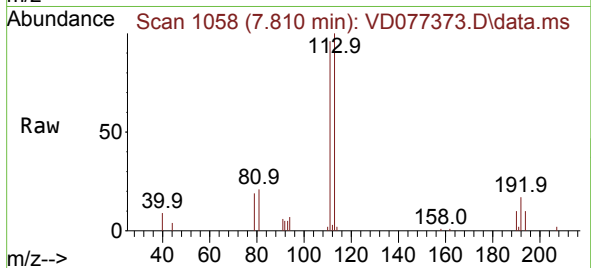
Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

ClientSampleId :



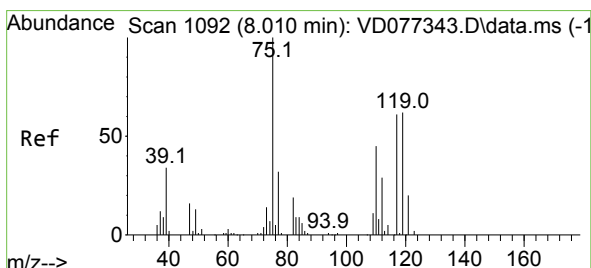
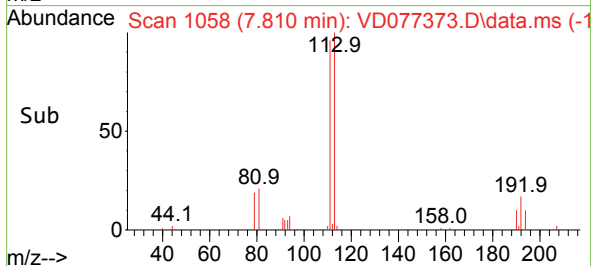
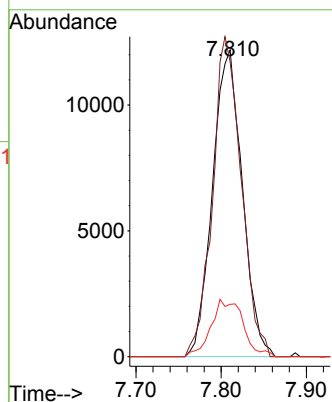
Tgt Ion:113 Resp: 29583

Ion Ratio Lower Upper

113 100

111 100.2 84.7 127.1

192 19.9 16.8 25.2



#36

1,1-Dichloropropene

Concen: 3.310 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

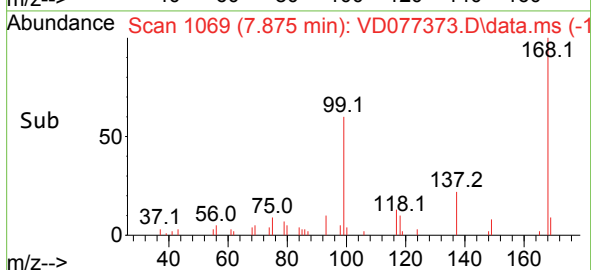
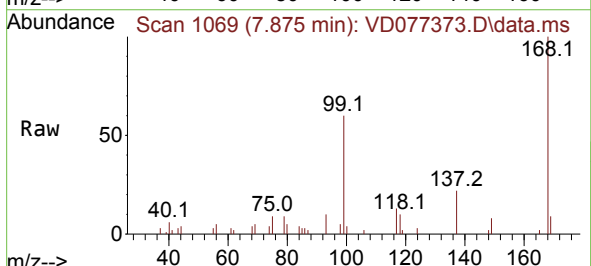
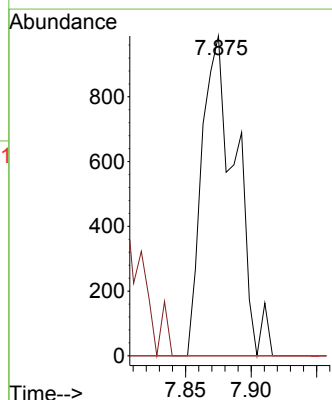
Tgt Ion: 75 Resp: 1777

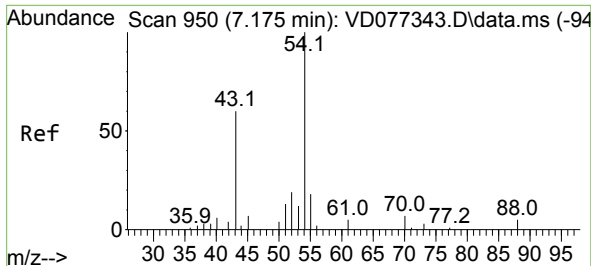
Ion Ratio Lower Upper

75 100

110 0.0 19.9 59.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 11.467 ug/l

RT: 7.063 min Scan# 91

Delta R.T. -0.112 min

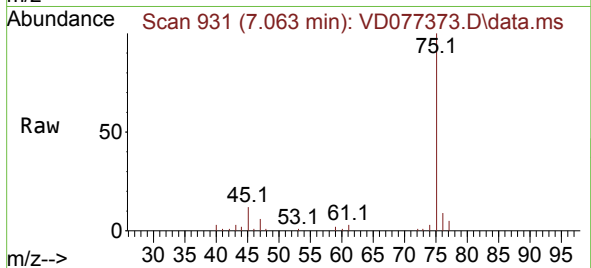
Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

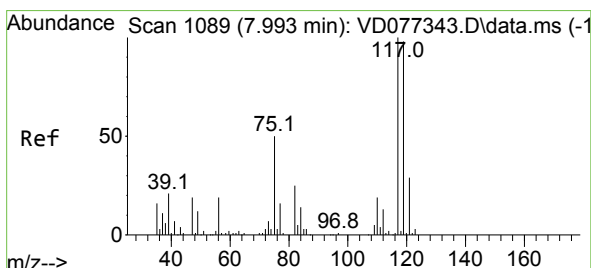
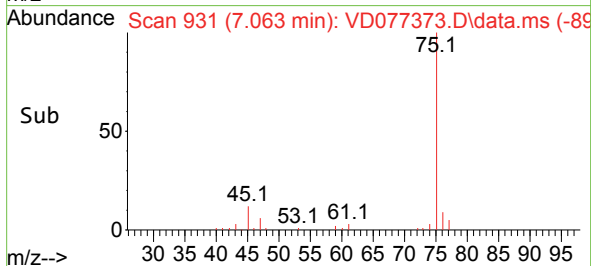
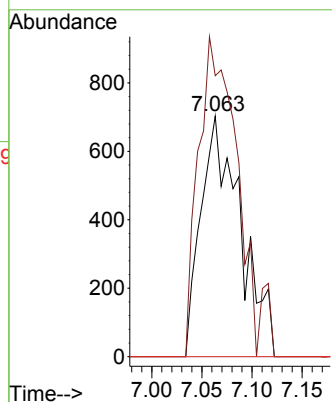
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43	Resp: 1934
Ion Ratio	Lower Upper
43 100	
61 125.7	14.9 22.3#
70 0.0	10.0 15.0#



#38

Carbon Tetrachloride

Concen: 4.691 ug/l

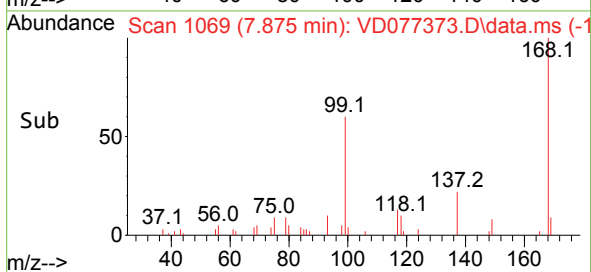
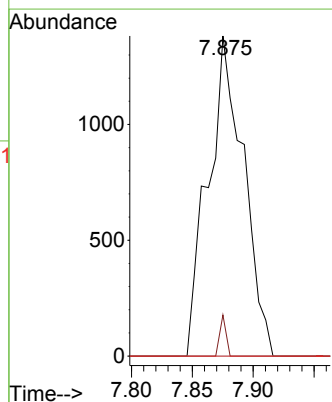
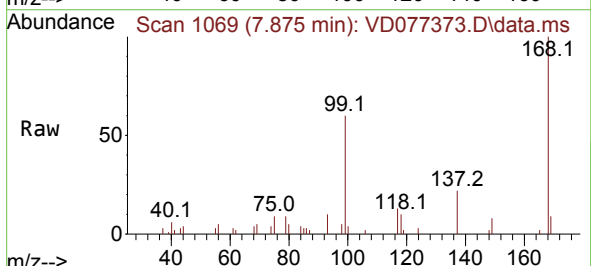
RT: 7.875 min Scan# 1069

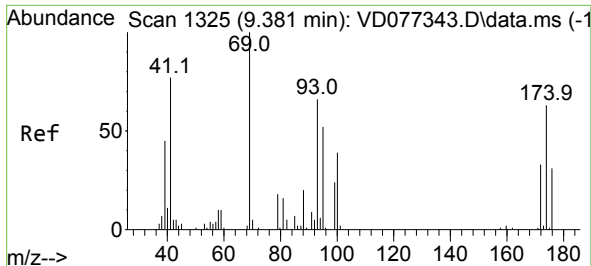
Delta R.T. -0.118 min

Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Tgt Ion:117	Resp:	2802	
Ion Ratio	Lower	Upper	
117	100		
119	12.8	78.0	117.0#
121	0.0	24.2	36.2#





#48

Methyl methacrylate

Concen: 2.352 ug/l

RT: 9.328 min Scan# 1316

Delta R.T. -0.053 min

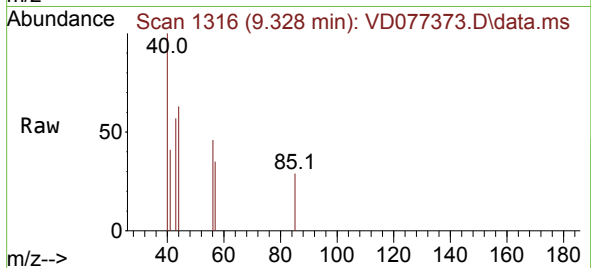
Lab File: VD077373.D

Acq: 20 Oct 2023 19:08

Instrument :

MSVOA_D

ClientSampleId :



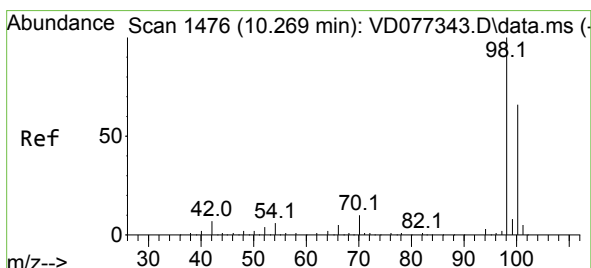
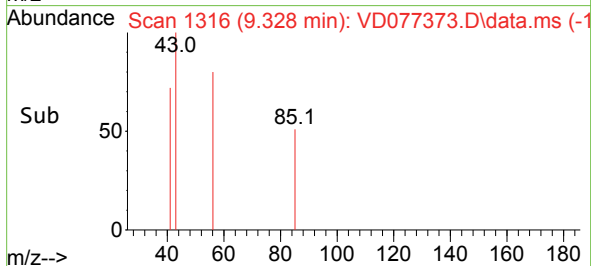
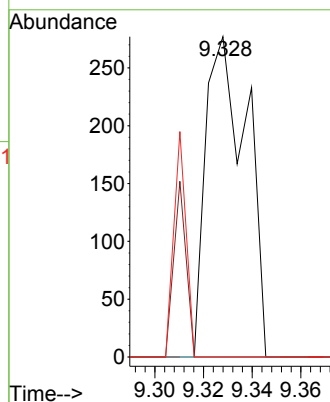
Tgt Ion: 41 Resp: 323

Ion Ratio Lower Upper

41 100

69 16.7 102.2 153.2#

39 21.4 41.4 62.2#



#50

Toluene-d8

Concen: 28.043 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077373.D

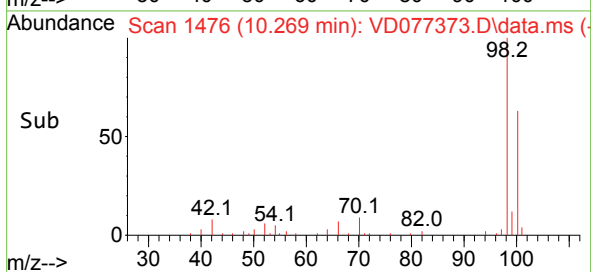
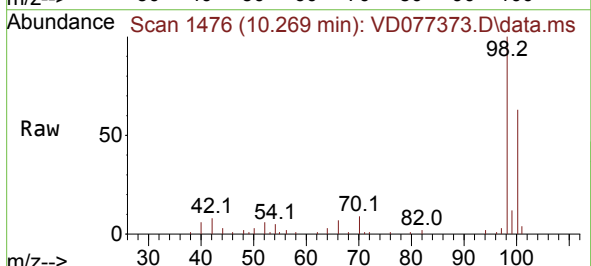
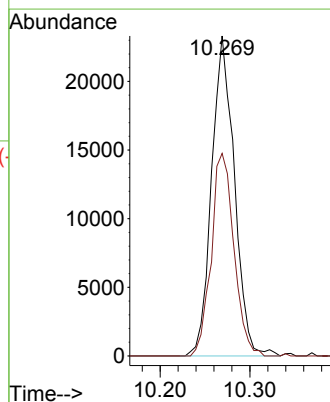
Acq: 20 Oct 2023 19:08

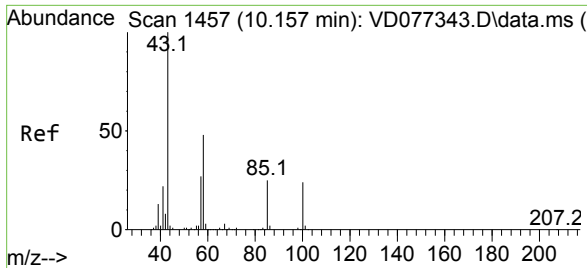
Tgt Ion: 98 Resp: 41039

Ion Ratio Lower Upper

98 100

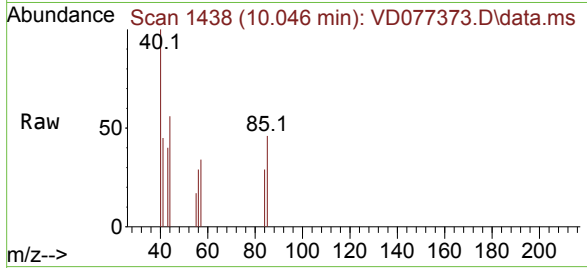
100 63.1 50.3 75.5



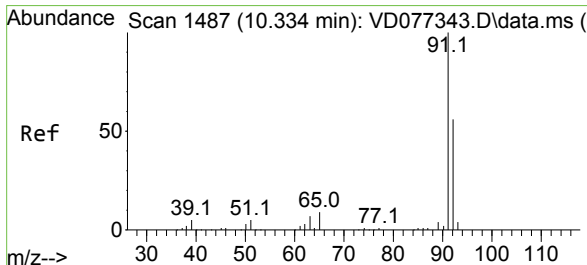
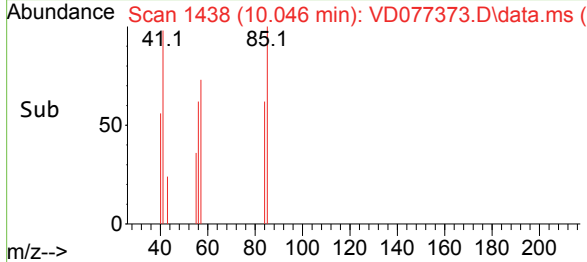
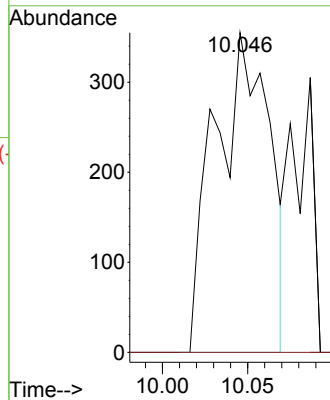


#51
4-Methyl-2-Pentanone
Concen: 5.204 ug/l
RT: 10.046 min Scan# 1438
Delta R.T. -0.111 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Instrument :
MSVOA_D
ClientSampleId :

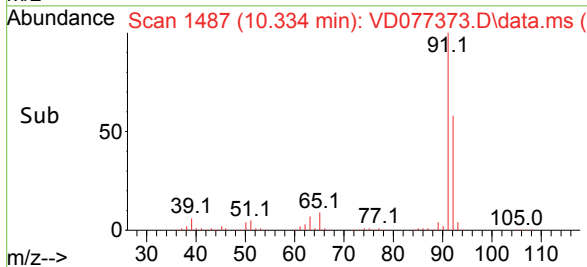
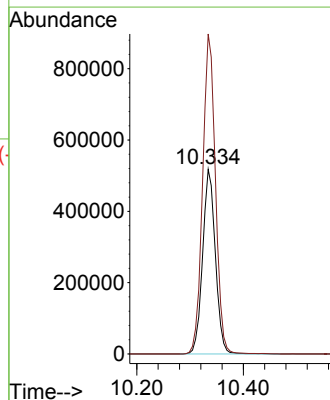
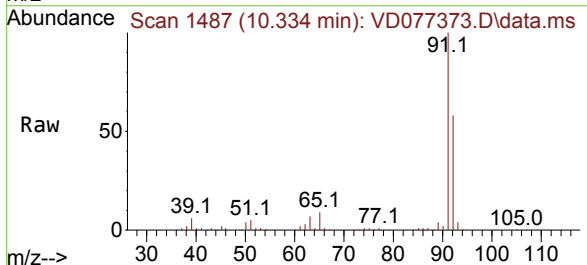


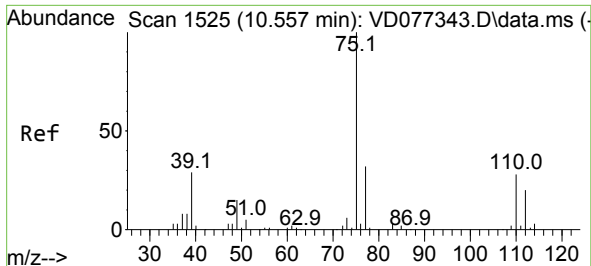
Tgt Ion: 43 Resp: 792
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#52
Toluene
Concen: 807.556 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Tgt Ion: 92 Resp: 859139
Ion Ratio Lower Upper
92 100
91 174.4 143.0 214.4

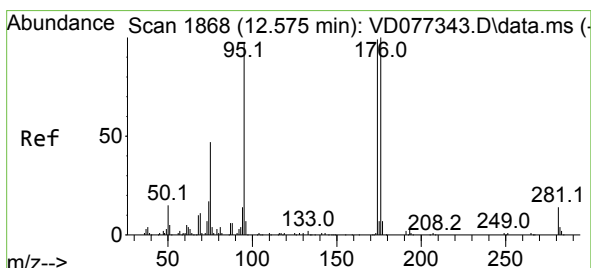
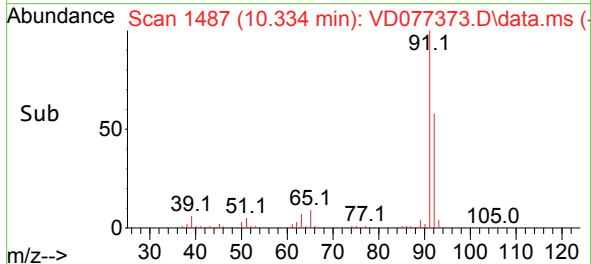
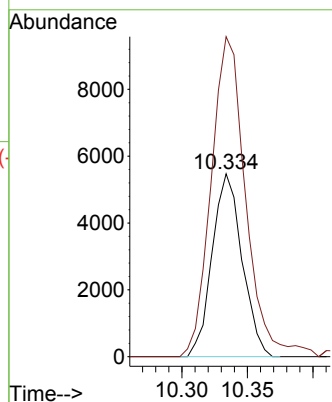
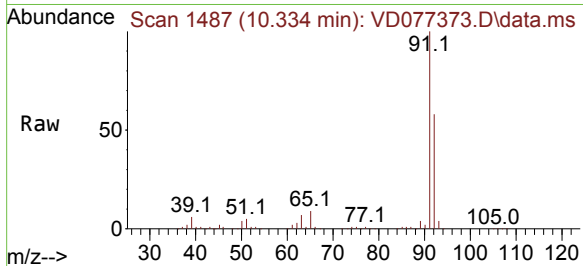




#53
t-1,3-Dichloropropene
Concen: 17.258 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.223 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

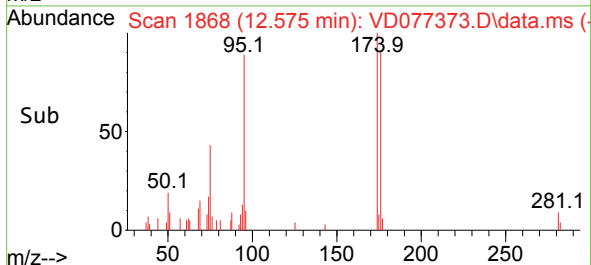
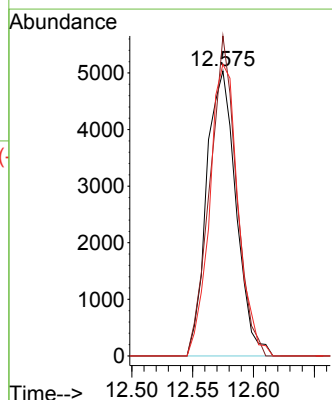
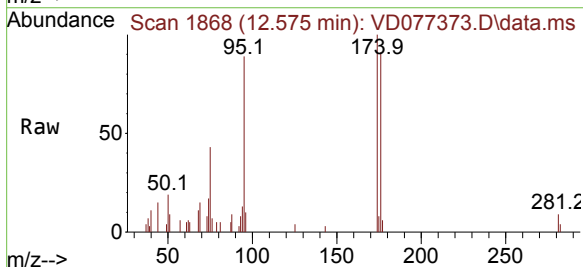
Instrument :
MSVOA_D
ClientSampleId :

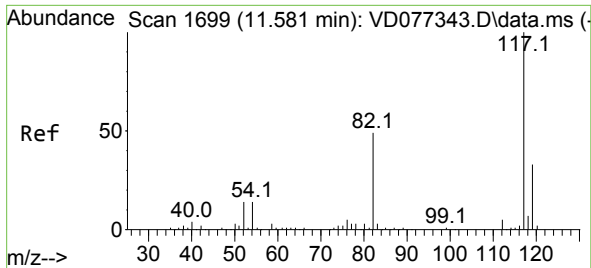
Tgt Ion: 75 Resp: 8674
Ion Ratio Lower Upper
75 100
77 175.0 25.3 37.9#



#62
4-Bromofluorobenzene
Concen: 20.049 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

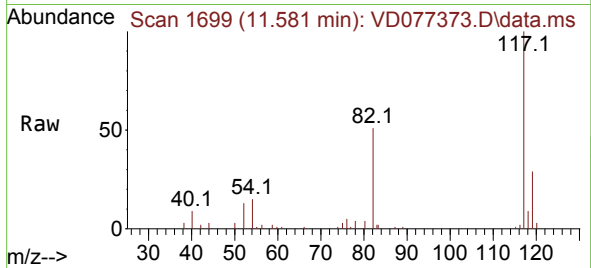
Tgt Ion: 95 Resp: 8446
Ion Ratio Lower Upper
95 100
174 101.6 0.0 201.8
176 99.2 0.0 191.8



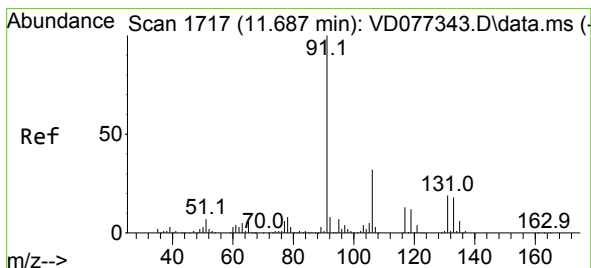
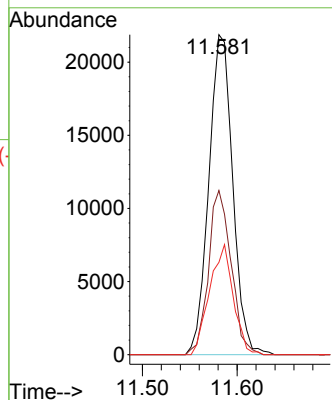
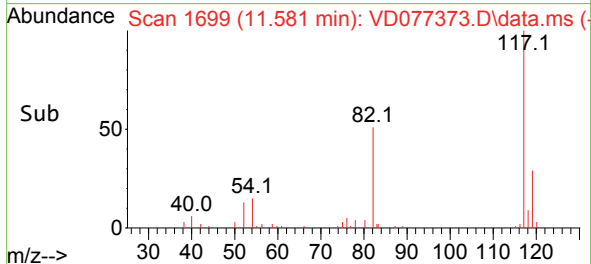


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Instrument :
MSVOA_D
ClientSampleId :

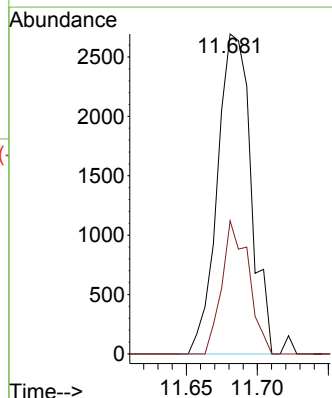
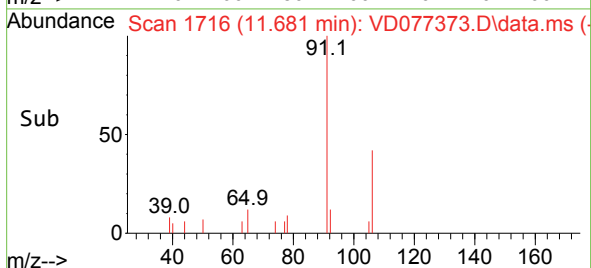
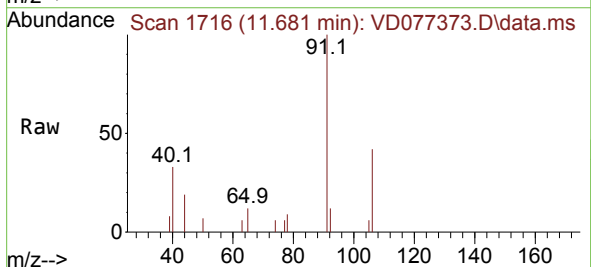


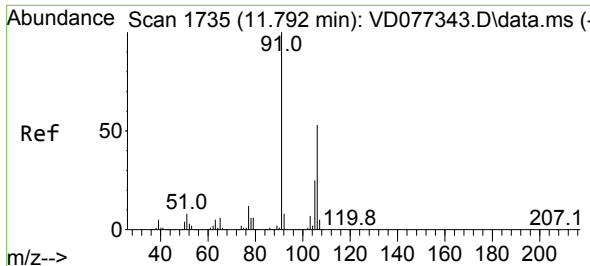
Tgt Ion:117 Resp: 38353
Ion Ratio Lower Upper
117 100
82 51.3 38.3 57.5
119 28.9 25.0 37.4



#67
Ethyl Benzene
Concen: 3.187 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

Tgt Ion: 91 Resp: 4417
Ion Ratio Lower Upper
91 100
106 41.6 26.5 39.7#

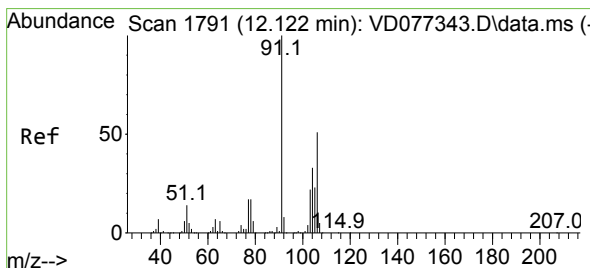
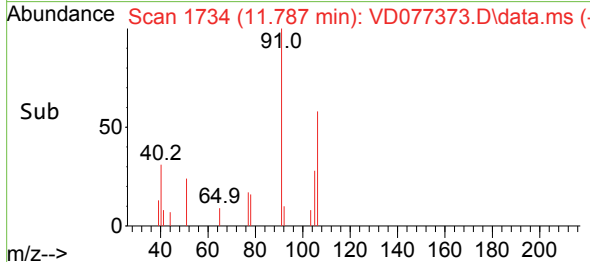
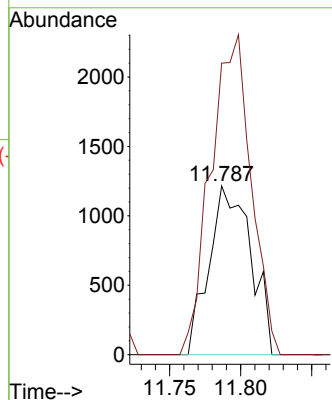
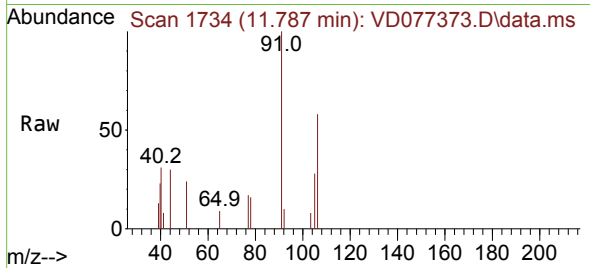




#68
m/p-Xylenes
Concen: 4.374 ug/l
RT: 11.787 min Scan# 1734
Delta R.T. -0.005 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

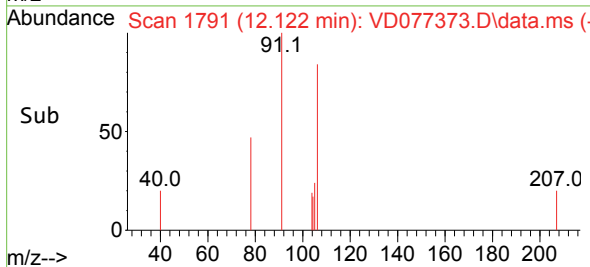
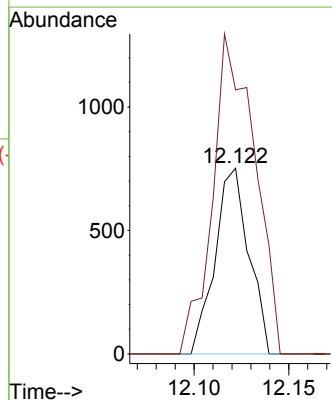
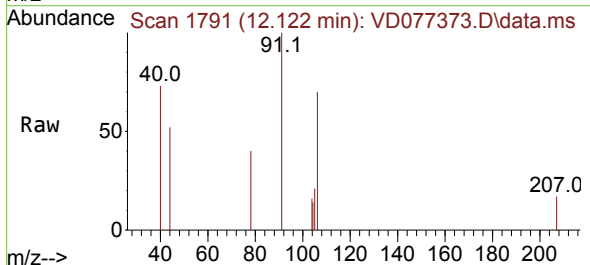
Instrument :
MSVOA_D
ClientSampleId :

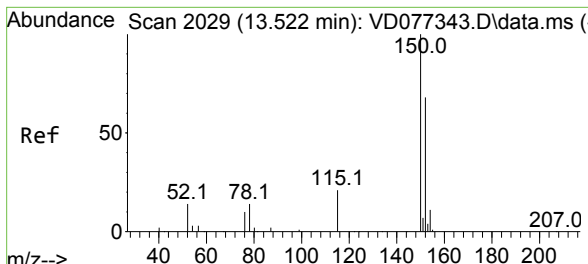
Tgt Ion:106 Resp: 2489
Ion Ratio Lower Upper
106 100
91 183.9 147.0 220.6



#69
o-Xylene
Concen: 1.781 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

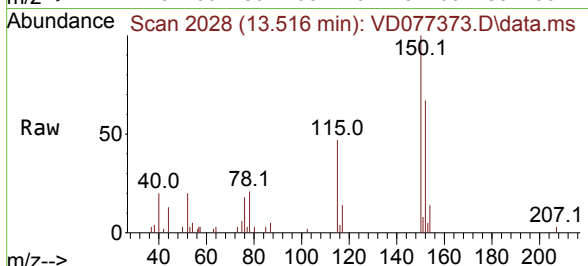
Tgt Ion:106 Resp: 933
Ion Ratio Lower Upper
106 100
91 214.4 97.9 293.6



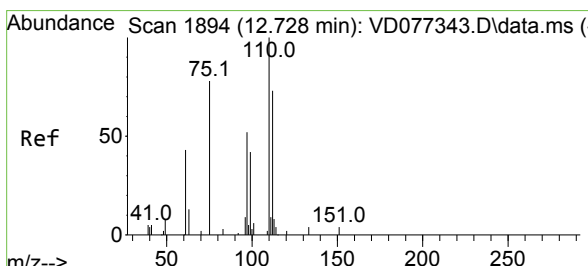
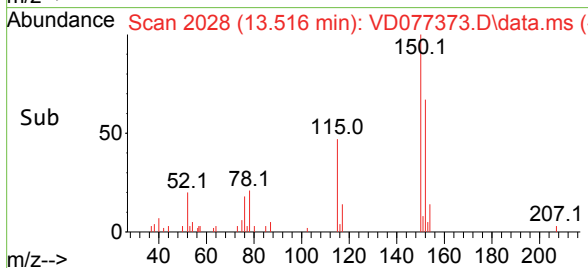
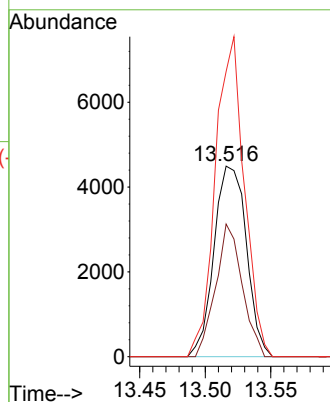


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VD077373.D
 Acq: 20 Oct 2023 19:08

Instrument :
 MSVOA_D
 ClientSampleId :

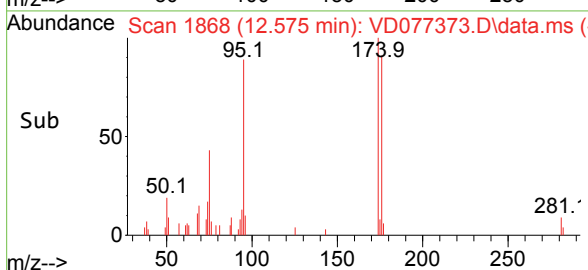
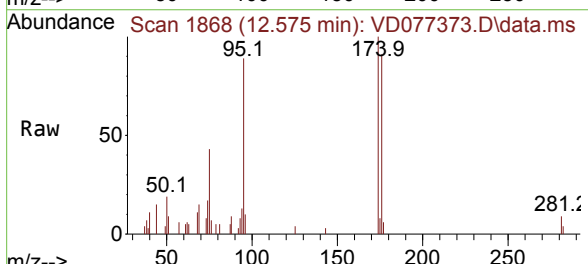
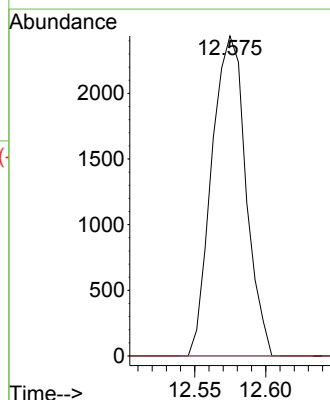


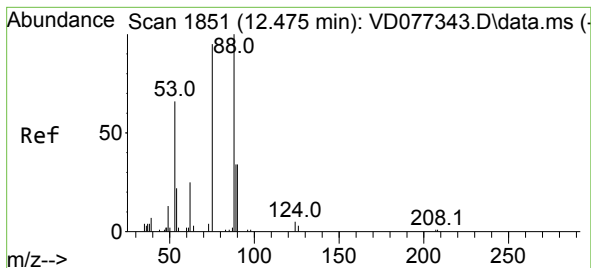
Tgt Ion:152 Resp: 7720
 Ion Ratio Lower Upper
 152 100
 115 57.0 27.1 81.3
 150 149.8 0.0 353.6



#76
 1,2,3-Trichloropropane
 Concen: 39.509 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.153 min
 Lab File: VD077373.D
 Acq: 20 Oct 2023 19:08

Tgt Ion: 75 Resp: 4077
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

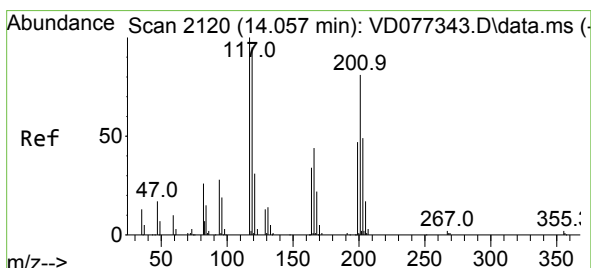
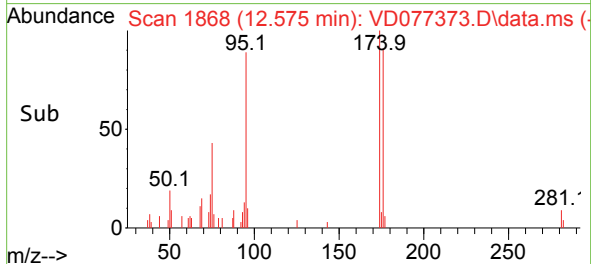
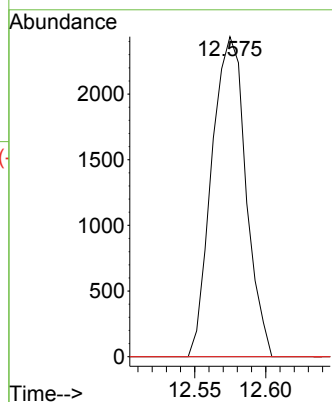
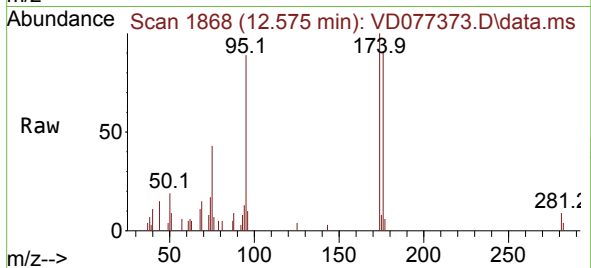




#81
trans-1,4-Dichloro-2-butene
Concen: 141.509 ug/l
RT: 12.575 min Scan# 11
Delta R.T. 0.100 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

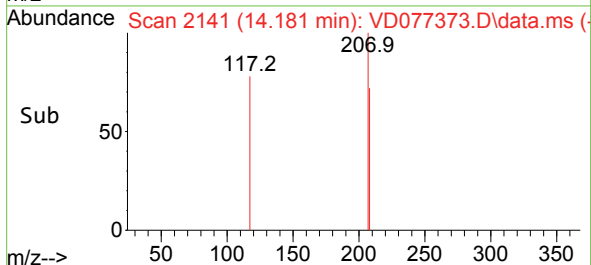
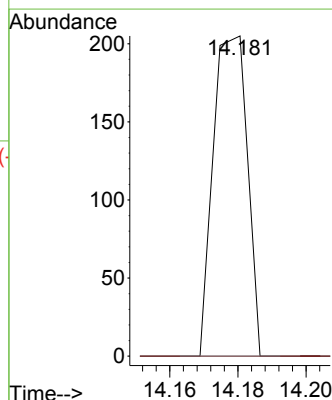
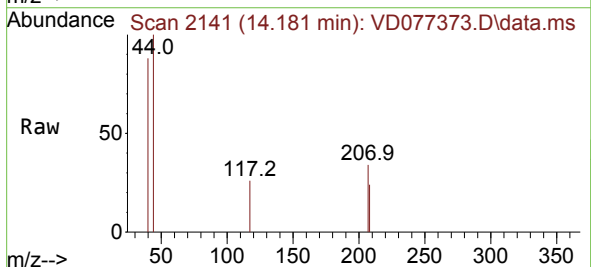
Instrument :
MSVOA_D
ClientSampleId :

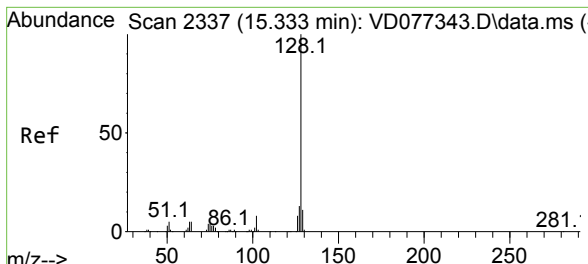
Tgt Ion: 75 Resp: 4077
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#



#90
Hexachloroethane
Concen: 1.448 ug/l
RT: 14.181 min Scan# 2141
Delta R.T. 0.124 min
Lab File: VD077373.D
Acq: 20 Oct 2023 19:08

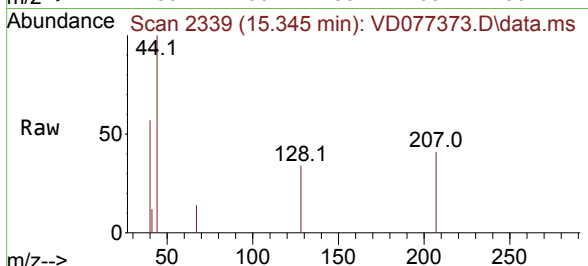
Tgt Ion: 117 Resp: 143
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#





#95
 Naphthalene
 Concen: 2.246 ug/l
 RT: 15.345 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VD077373.D
 Acq: 20 Oct 2023 19:08

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	563
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#

