

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102423\
 Data File : VD077400.D
 Acq On : 24 Oct 2023 17:43
 Operator : JC/SY
 Sample : 05005-02
 Misc : 4.84G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 25 04:07:52 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

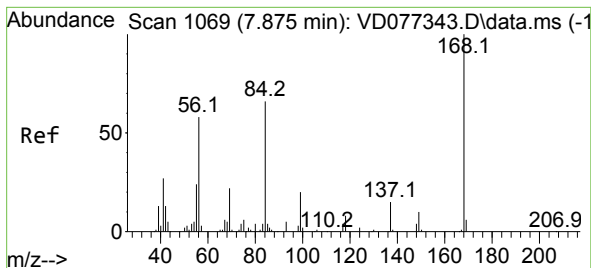
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.881	168	130527	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	245359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	205861	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	62105	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	52274	44.850	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.700%		
35) Dibromofluoromethane	7.810	113	69313	40.210	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	80.420%		
50) Toluene-d8	10.269	98	207024	33.535	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	67.080%		
62) 4-Bromofluorobenzene	12.575	95	51987	29.255	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	58.500%		
Target Compounds					Qvalue	
13) Acrolein	3.793	56	372	3.268	ug/l #	63
16) Acetone	4.028	43	15731	61.549	ug/l #	77
17) Carbon Disulfide	4.269	76	24686	5.588	ug/l	96
20) Methylene Chloride	4.805	84	17411	7.169	ug/l	96
25) 2-Butanone	7.087	43	3618	13.646	ug/l #	75
29) Tetrahydrofuran	7.452	42	220	1.438	ug/l #	42
31) Cyclohexane	7.875	56	2637	1.454	ug/l #	23
36) 1,1-Dichloropropene	7.875	75	9594	4.236	ug/l #	46
37) Ethyl Acetate	7.087	43	3618	5.085	ug/l #	62
38) Carbon Tetrachloride	7.875	117	12383	4.915	ug/l #	18
40) Benzene	8.251	78	27641	4.021	ug/l	97
52) Toluene	10.334	92	6318	1.408	ug/l	91
67) Ethyl Benzene	11.687	91	12946	1.740	ug/l	97
69) o-Xylene	12.122	106	3458	1.230	ug/l	71
73) Isopropylbenzene	12.416	105	22040	5.365	ug/l	94
74) N-amyl acetate	12.210	43	2908	4.921	ug/l #	66
76) 1,2,3-Trichloropropane	12.575	75	26812	32.798	ug/l #	100
78) n-propylbenzene	12.763	91	32199	6.508	ug/l	97
79) 2-Chlorotoluene	12.763	91	32199	11.949	ug/l #	37
81) trans-1,4-Dichloro-2-b...	12.575	75	26812	115.681	ug/l #	18
82) 4-Chlorotoluene	13.063	91	4262	1.519	ug/l #	36
84) 1,2,4-Trimethylbenzene	13.210	105	5546	1.625	ug/l	89
85) sec-Butylbenzene	13.345	105	4841	1.070	ug/l #	72
89) n-Butylbenzene	13.722	91	4805	1.404	ug/l #	40
90) Hexachloroethane	14.057	117	1237	1.558	ug/l #	11
95) Naphthalene	15.333	128	163918	81.273	ug/l	99

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

Quant Time: Oct 25 04:07:52 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

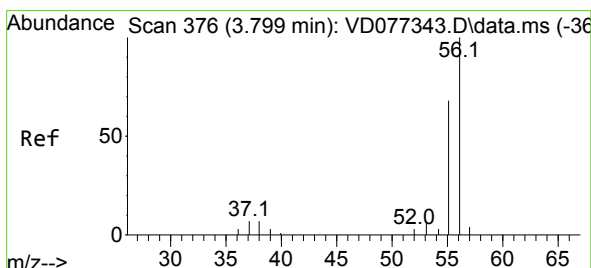
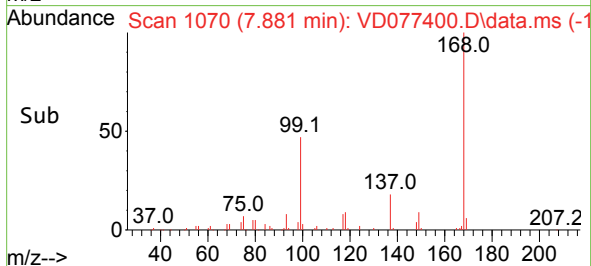
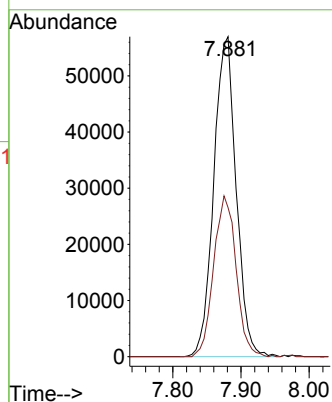
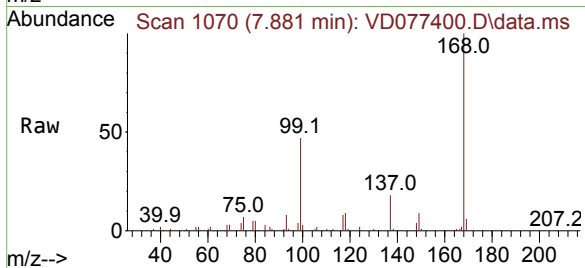
ClientSampleId :

Tgt Ion:168 Resp: 130527

Ion Ratio Lower Upper

168 100

99 46.6 36.7 55.1



#13

Acrolein

Concen: 3.268 ug/l

RT: 3.793 min Scan# 375

Delta R.T. -0.006 min

Lab File: VD077400.D

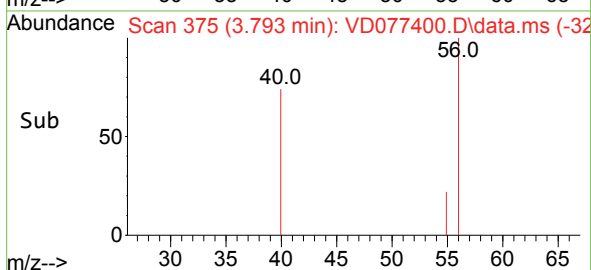
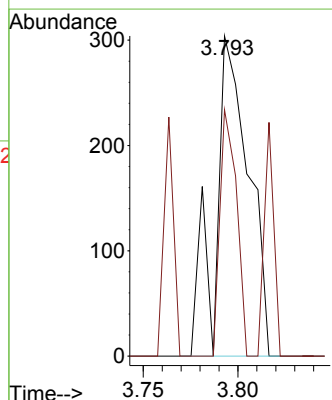
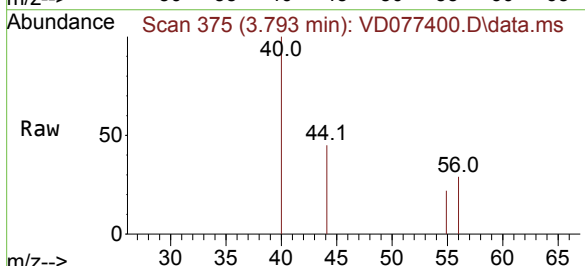
Acq: 24 Oct 2023 17:43

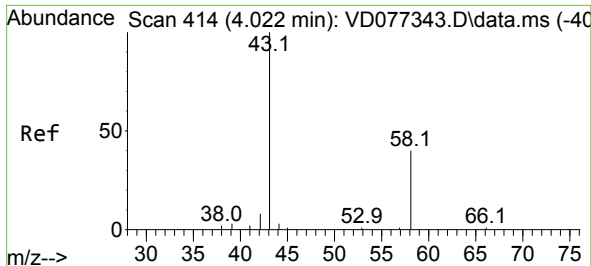
Tgt Ion: 56 Resp: 372

Ion Ratio Lower Upper

56 100

55 38.4 55.1 82.7#





#16

Acetone

Concen: 61.549 ug/l

RT: 4.028 min Scan# 414

Delta R.T. 0.006 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

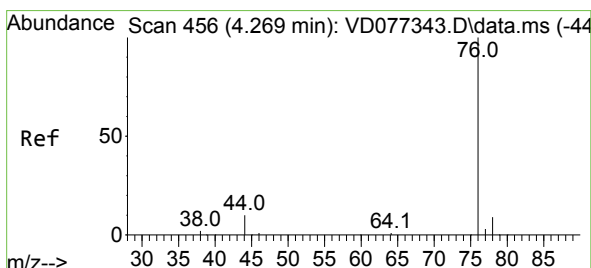
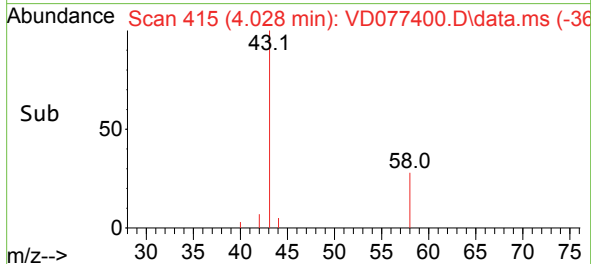
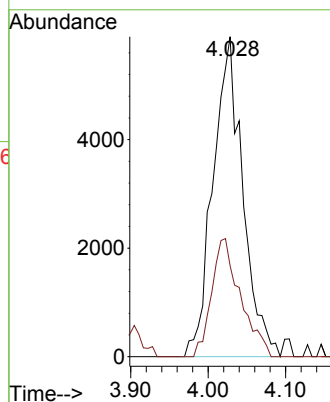
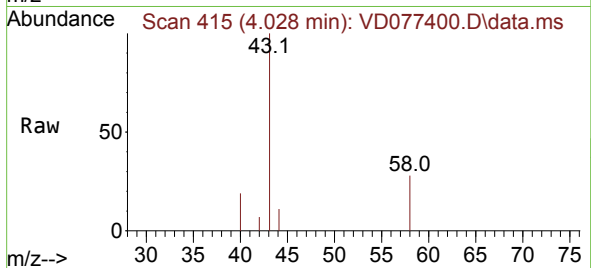
ClientSampleId :

Tgt Ion: 43 Resp: 15731

Ion Ratio Lower Upper

43 100

58 28.4 34.7 52.1#



#17

Carbon Disulfide

Concen: 5.588 ug/l

RT: 4.269 min Scan# 456

Delta R.T. 0.000 min

Lab File: VD077400.D

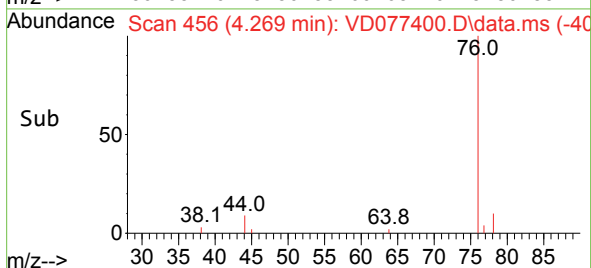
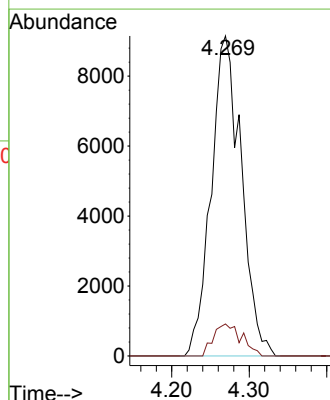
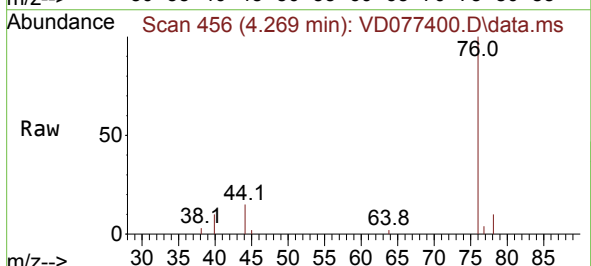
Acq: 24 Oct 2023 17:43

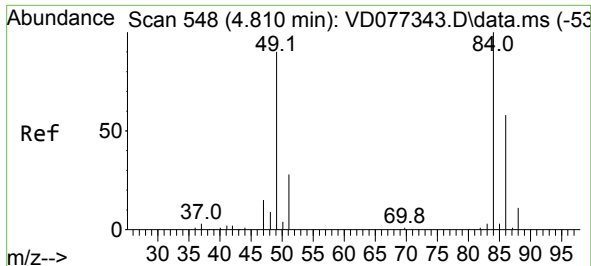
Tgt Ion: 76 Resp: 24686

Ion Ratio Lower Upper

76 100

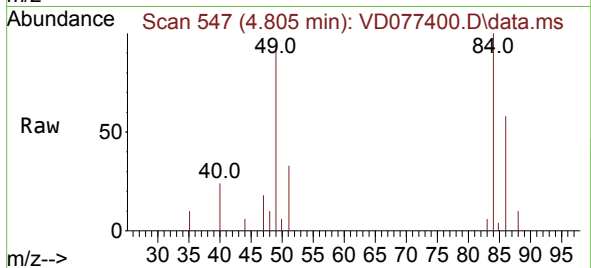
78 10.0 6.8 10.2



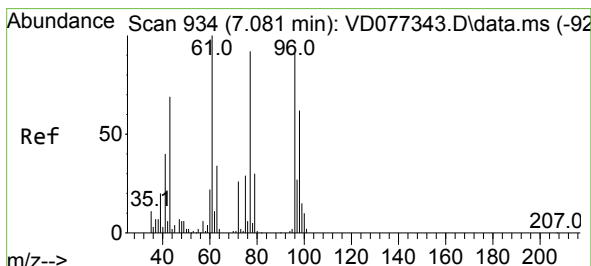
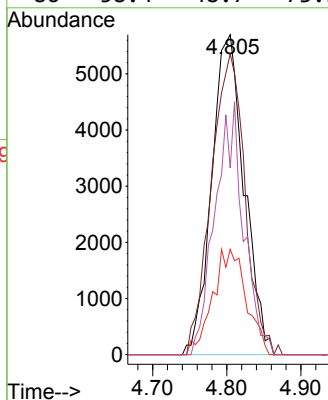
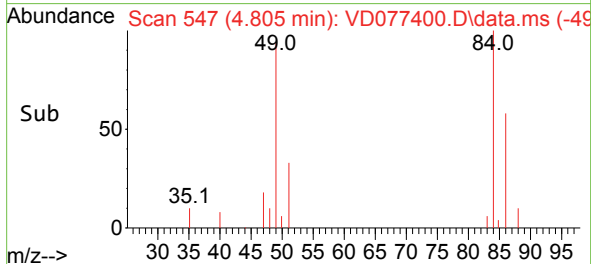


#20
Methylene Chloride
Concen: 7.169 ug/l
RT: 4.805 min Scan# 54
Delta R.T. -0.005 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Instrument :
MSVOA_D
ClientSampleId :

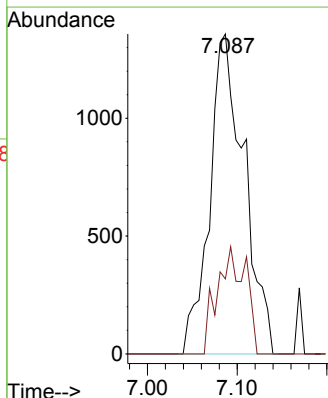
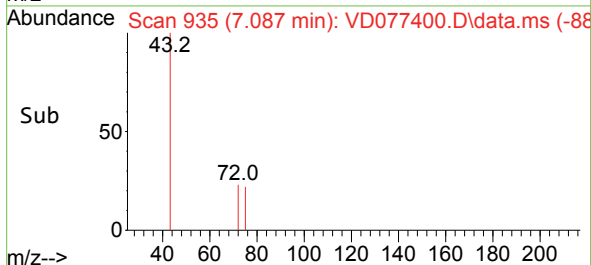
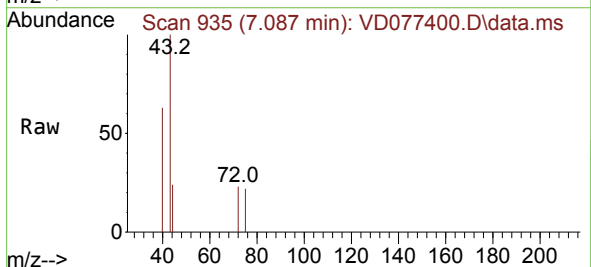


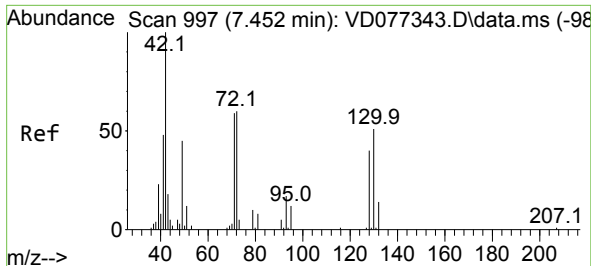
Tgt Ion: 84 Resp: 17411
Ion Ratio Lower Upper
84 100
49 94.0 71.4 107.2
51 33.0 24.5 36.7
86 58.4 48.7 73.1



#25
2-Butanone
Concen: 13.646 ug/l
RT: 7.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 43 Resp: 3618
Ion Ratio Lower Upper
43 100
72 23.4 30.7 46.1#





#29

Tetrahydrofuran

Concen: 1.438 ug/l

RT: 7.452 min Scan# 997

Delta R.T. -0.000 min

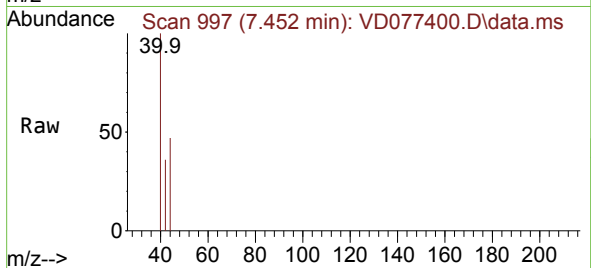
Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

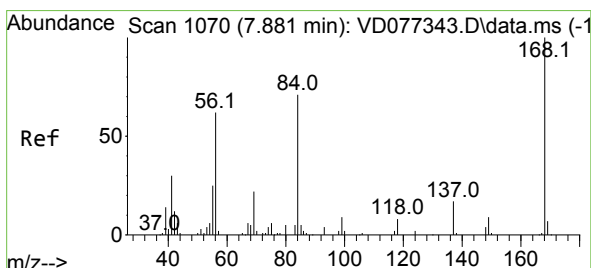
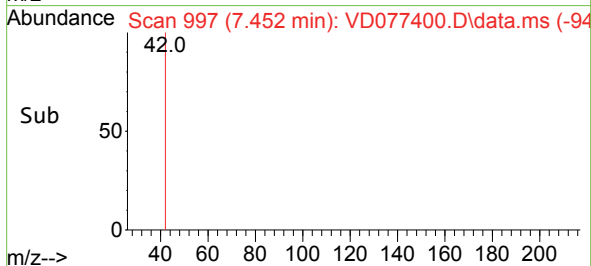
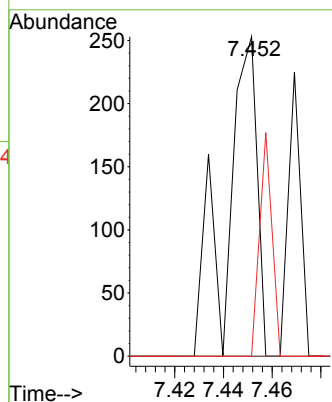
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 42	Resp: 220
Ion Ratio	Lower Upper
42	100
72	0.0 46.5 69.7#
71	28.2 44.5 66.7#



#31

Cyclohexane

Concen: 1.454 ug/l

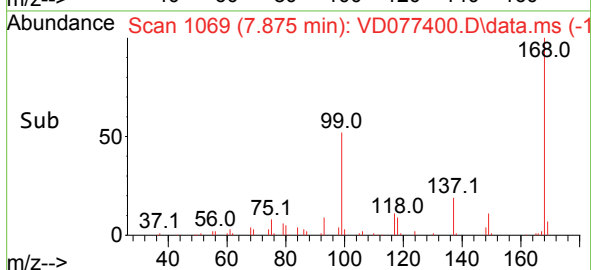
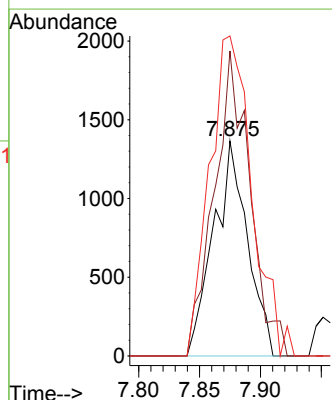
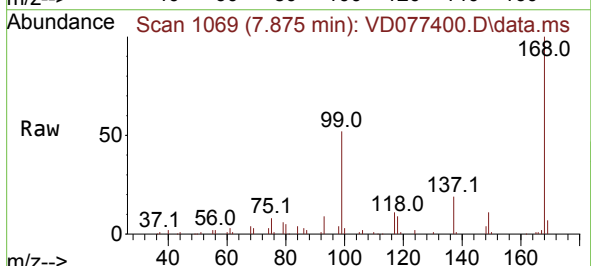
RT: 7.875 min Scan# 1069

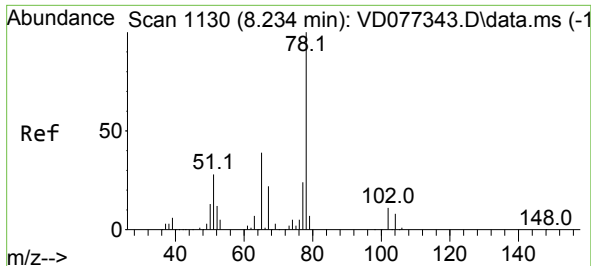
Delta R.T. -0.006 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Tgt Ion: 56	Resp: 2637
Ion Ratio	Lower Upper
56	100
69	142.0 28.6 43.0#
84	149.0 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 44.850 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

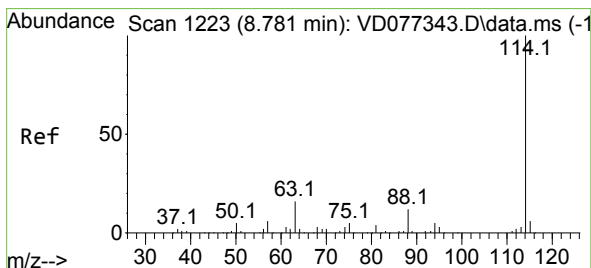
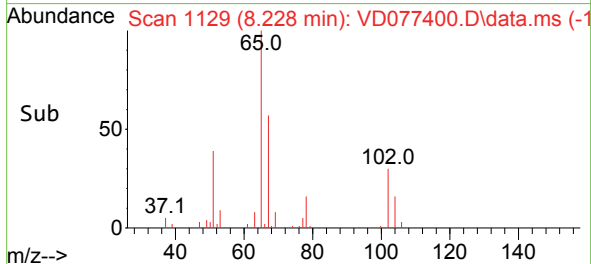
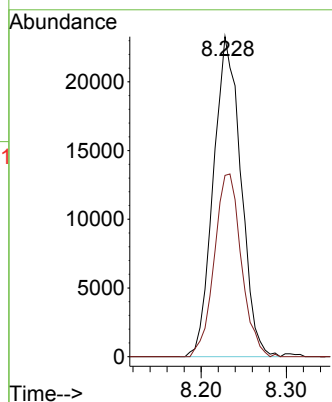
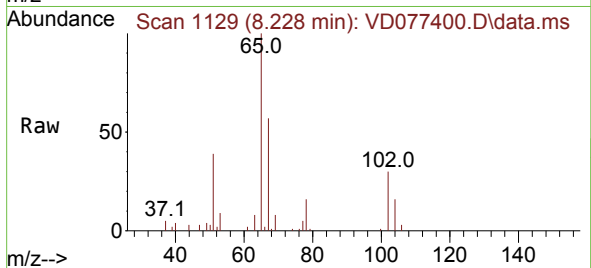
ClientSampleId :

Tgt Ion: 65 Resp: 52274

Ion Ratio Lower Upper

65 100

67 56.1 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

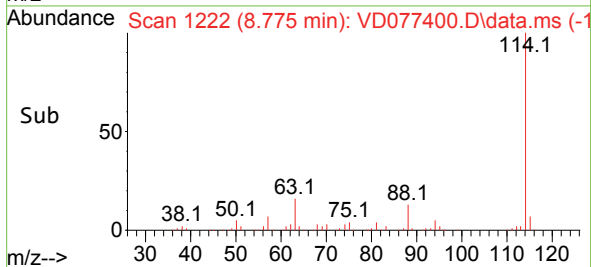
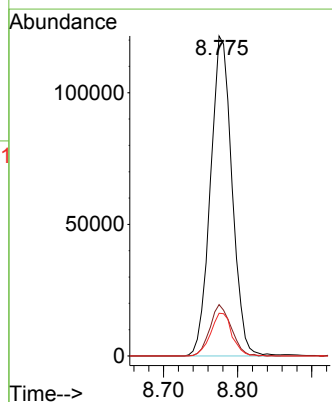
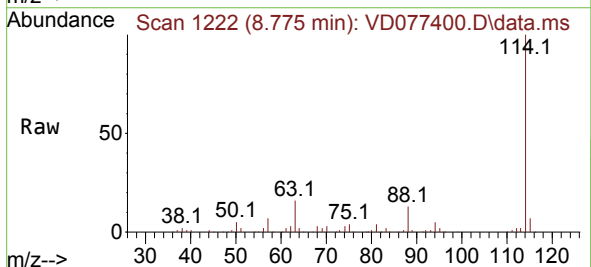
Tgt Ion: 114 Resp: 245359

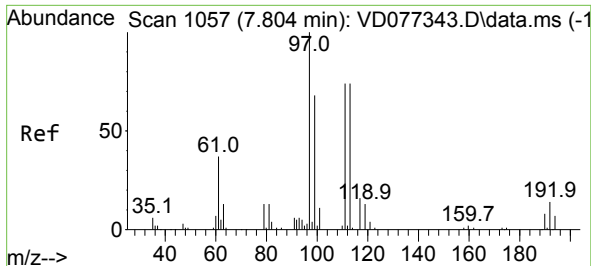
Ion Ratio Lower Upper

114 100

63 16.0 0.0 33.4

88 13.4 0.0 26.2





#35

Dibromofluoromethane

Concen: 40.210 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

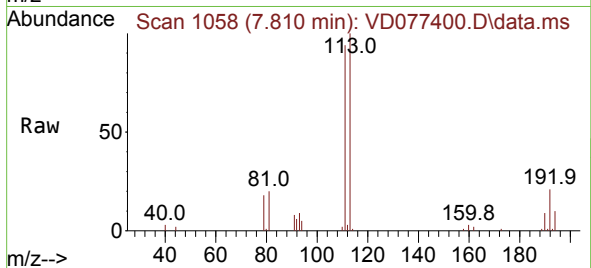
Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

ClientSampleId :



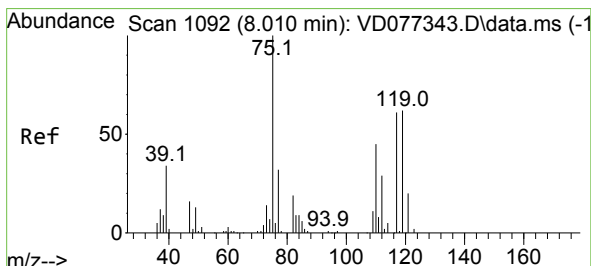
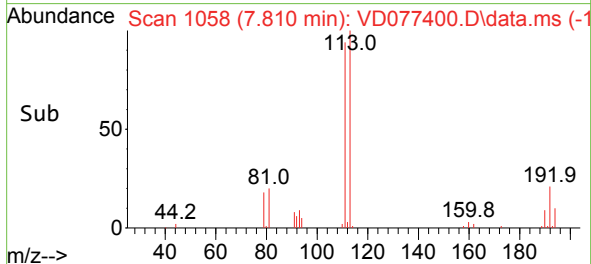
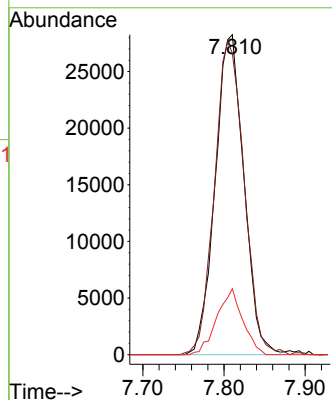
Tgt Ion:113 Resp: 69313

Ion Ratio Lower Upper

113 100

111 100.9 84.7 127.1

192 18.6 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.236 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

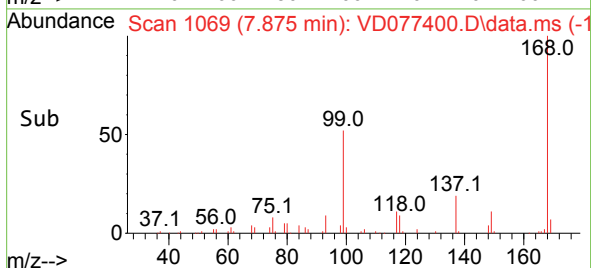
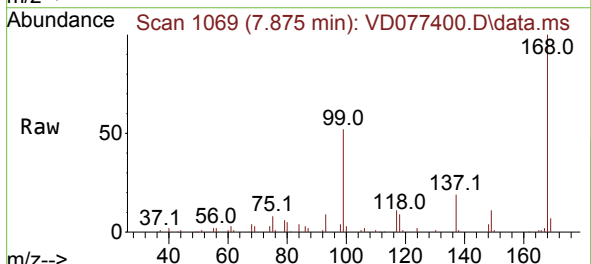
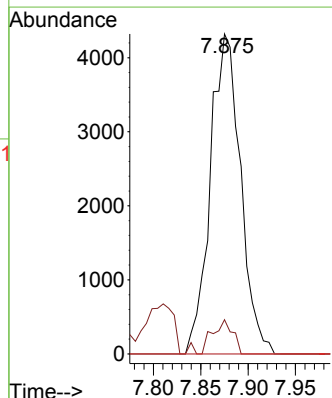
Tgt Ion: 75 Resp: 9594

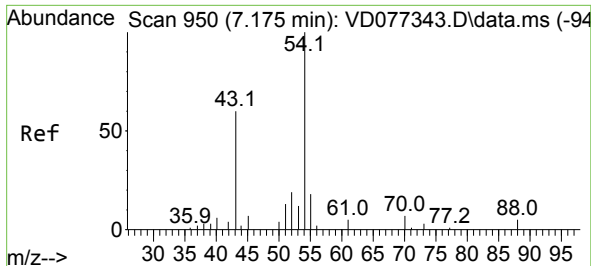
Ion Ratio Lower Upper

75 100

110 7.1 19.9 59.6#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 5.085 ug/l

RT: 7.087 min Scan# 91

Delta R.T. -0.088 min

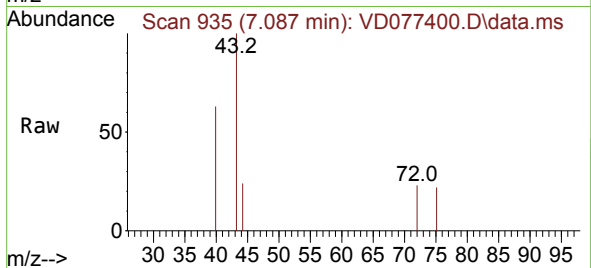
Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

ClientSampleId :



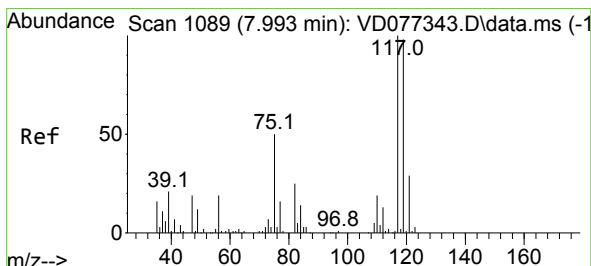
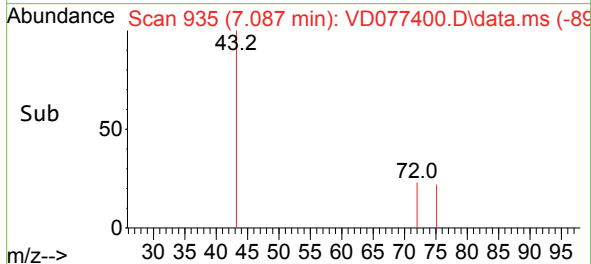
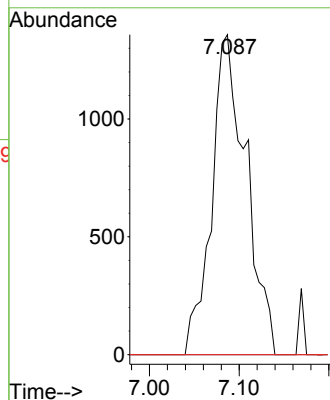
Tgt Ion: 43 Resp: 3618

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

70 0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 4.915 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

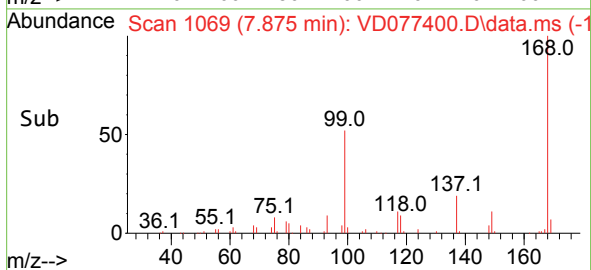
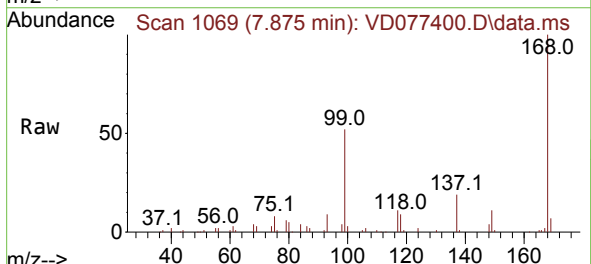
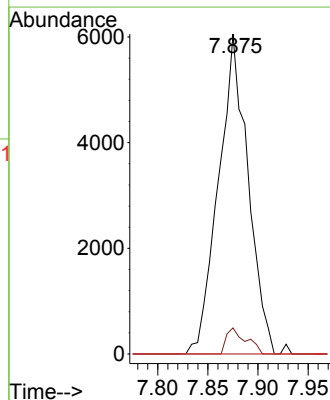
Tgt Ion: 117 Resp: 12383

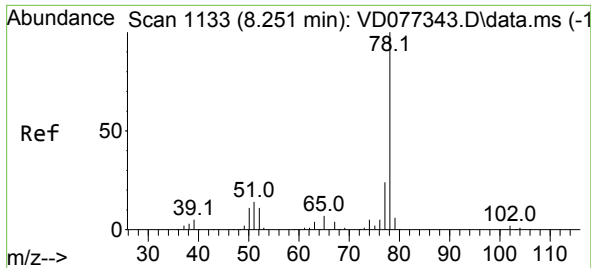
Ion Ratio Lower Upper

117 100

119 8.2 78.0 117.0#

121 0.0 24.2 36.2#

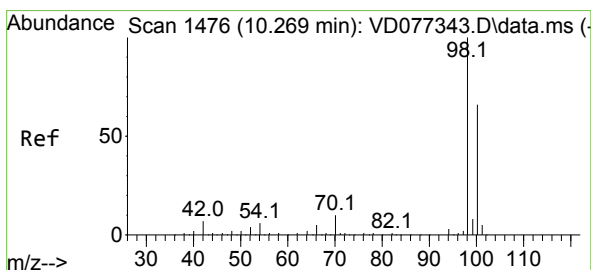
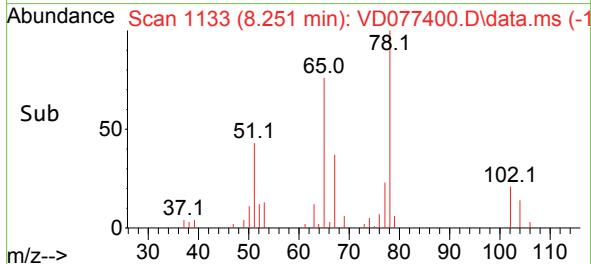
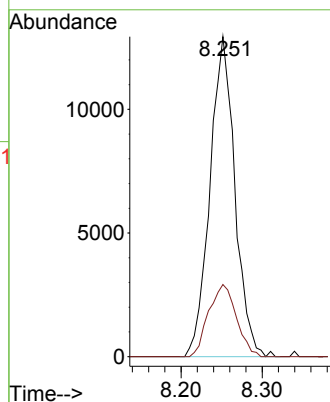
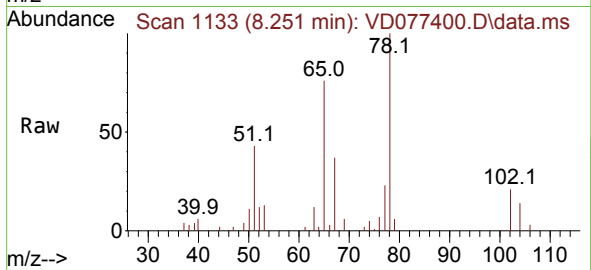




#40
Benzene
Concen: 4.021 ug/l
RT: 8.251 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

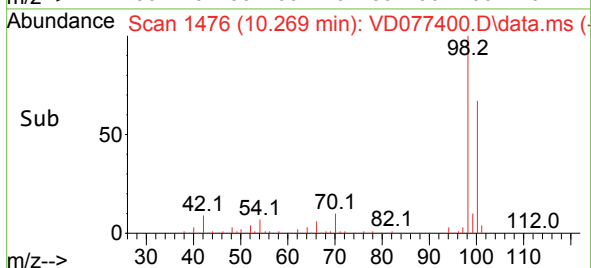
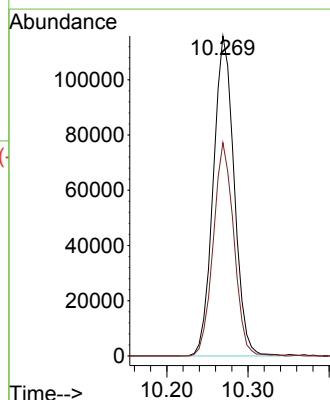
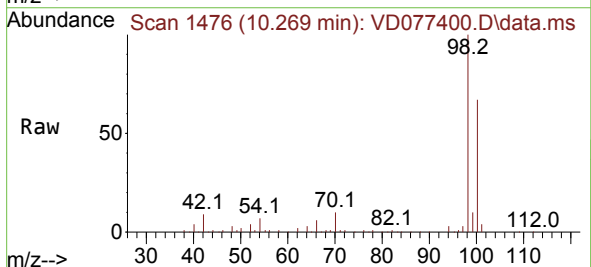
Instrument :
MSVOA_D
ClientSampleId :

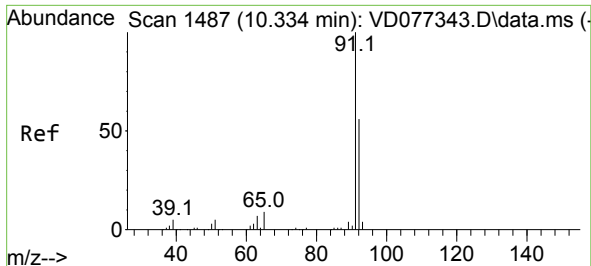
Tgt Ion: 78 Resp: 27641
Ion Ratio Lower Upper
78 100
77 22.5 19.4 29.0



#50
Toluene-d8
Concen: 33.535 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 98 Resp: 207024
Ion Ratio Lower Upper
98 100
100 65.5 50.3 75.5

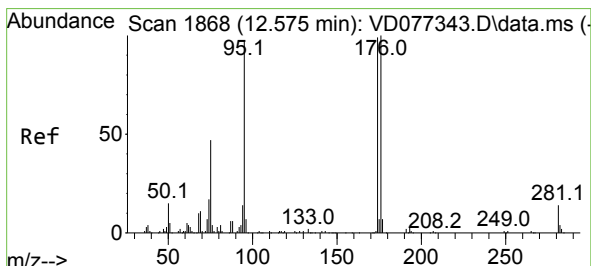
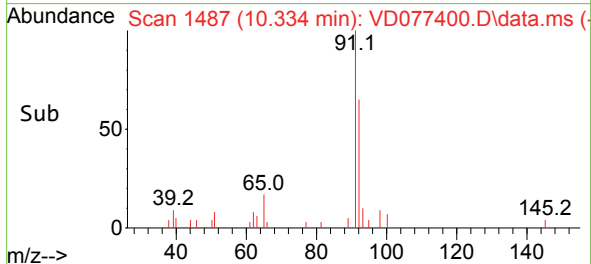
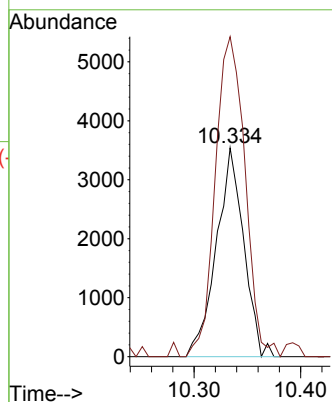
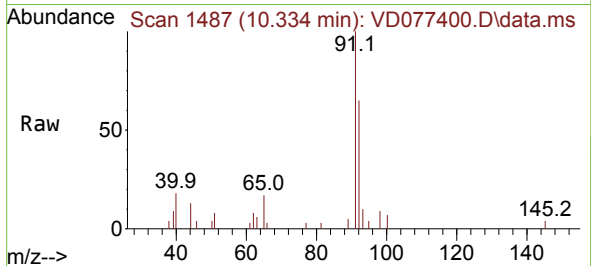




#52
Toluene
Concen: 1.408 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

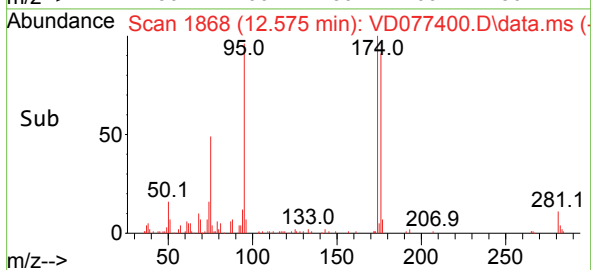
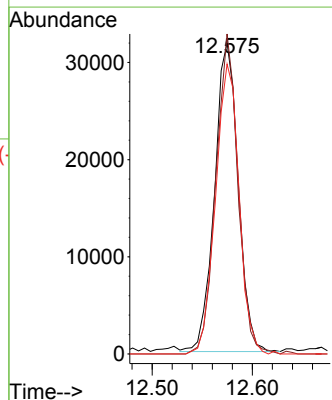
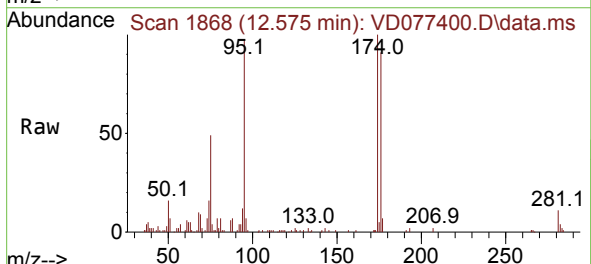
Instrument :
MSVOA_D
ClientSampleId :

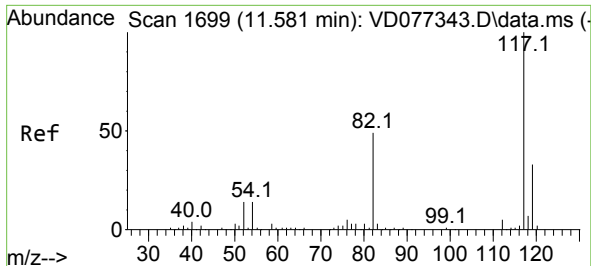
Tgt Ion: 92 Resp: 6318
Ion Ratio Lower Upper
92 100
91 166.3 143.0 214.4



#62
4-Bromofluorobenzene
Concen: 29.255 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

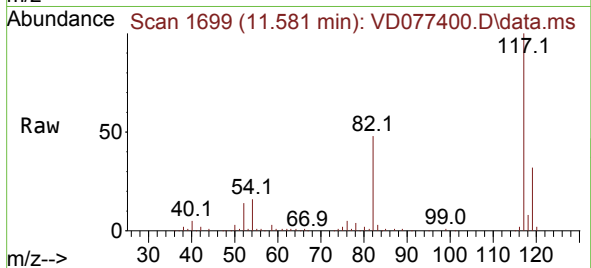
Tgt Ion: 95 Resp: 51987
Ion Ratio Lower Upper
95 100
174 96.5 0.0 201.8
176 93.4 0.0 191.8



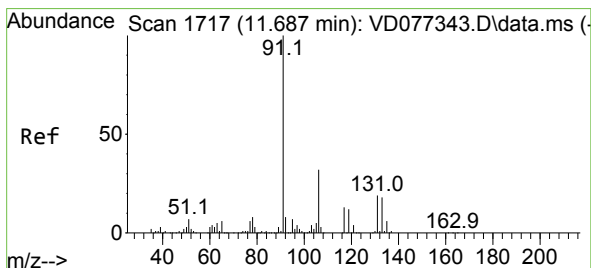
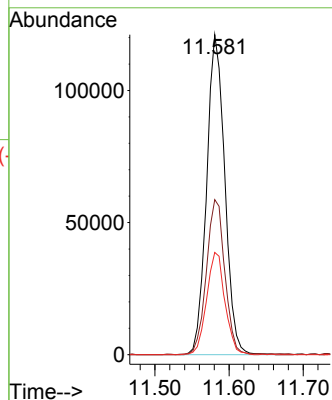
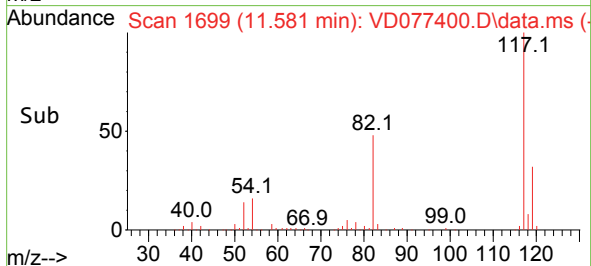


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Instrument :
MSVOA_D
ClientSampleId :

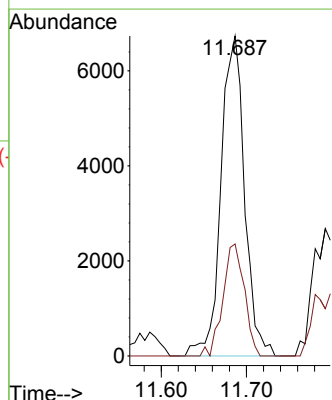
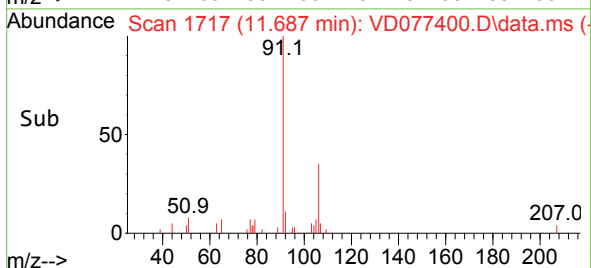
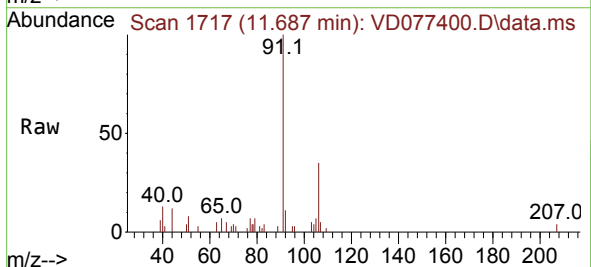


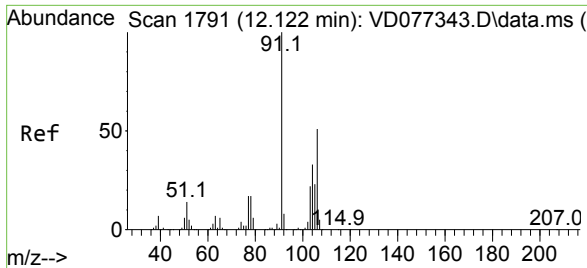
Tgt Ion:117 Resp: 205861
Ion Ratio Lower Upper
117 100
82 48.3 38.3 57.5
119 32.0 25.0 37.4



#67
Ethyl Benzene
Concen: 1.740 ug/l
RT: 11.687 min Scan# 1717
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 91 Resp: 12946
Ion Ratio Lower Upper
91 100
106 35.0 26.5 39.7

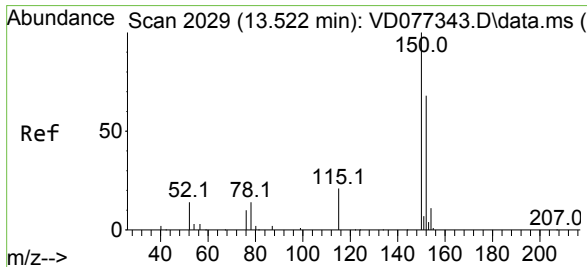
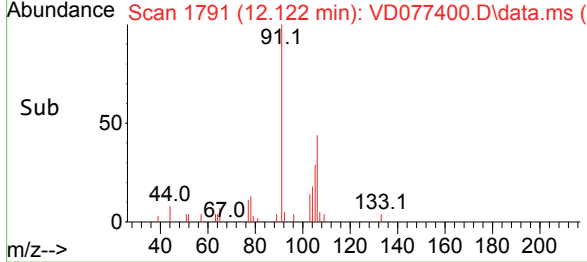
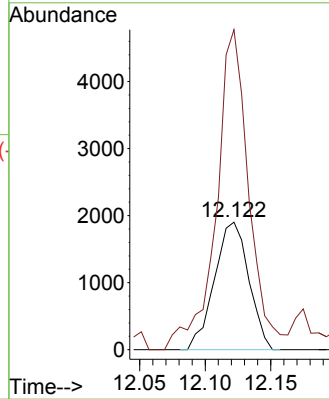
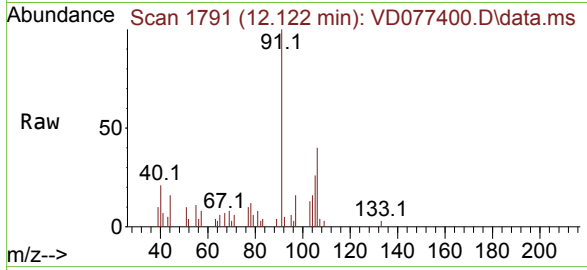




#69
o-Xylene
Concen: 1.230 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

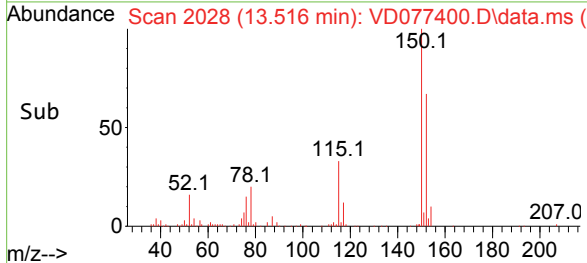
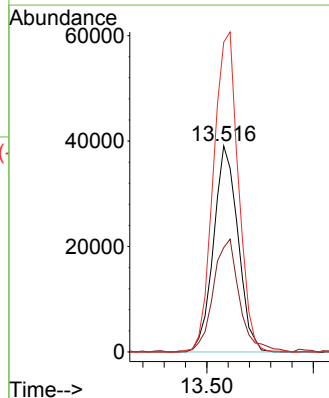
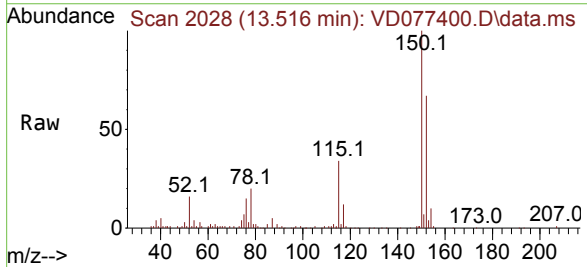
Instrument :
MSVOA_D
ClientSampleId :

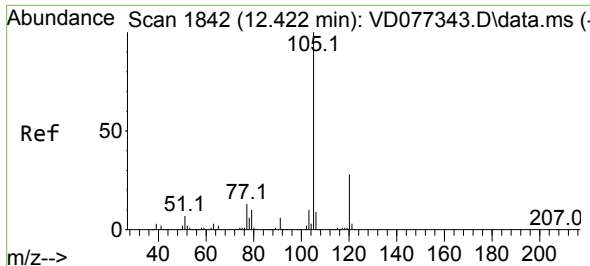
Tgt Ion:106 Resp: 3458
Ion Ratio Lower Upper
106 100
91 238.5 97.9 293.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.006 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

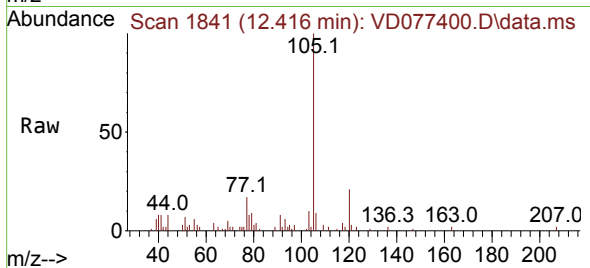
Tgt Ion:152 Resp: 62105
Ion Ratio Lower Upper
152 100
115 58.9 27.1 81.3
150 158.7 0.0 353.6



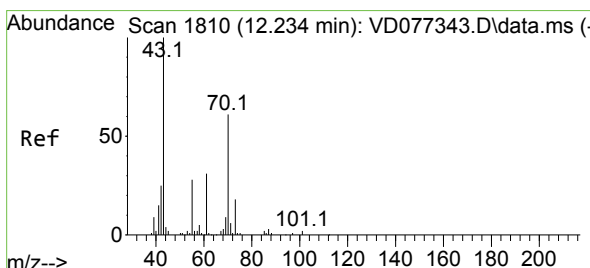
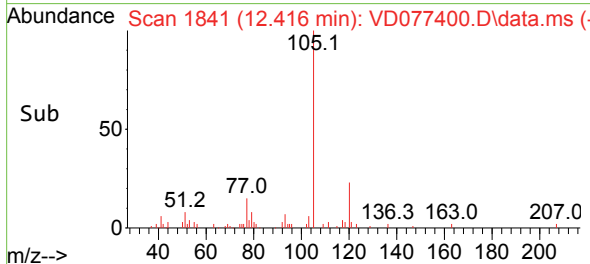
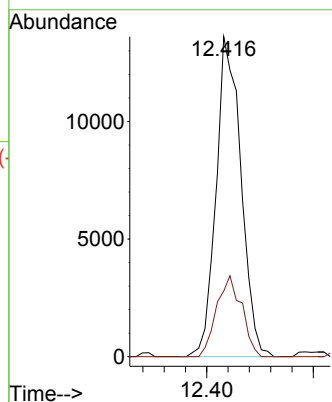


#73
Isopropylbenzene
Concen: 5.365 ug/l
RT: 12.416 min Scan# 1841
Delta R.T. -0.006 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Instrument :
MSVOA_D
ClientSampleId :

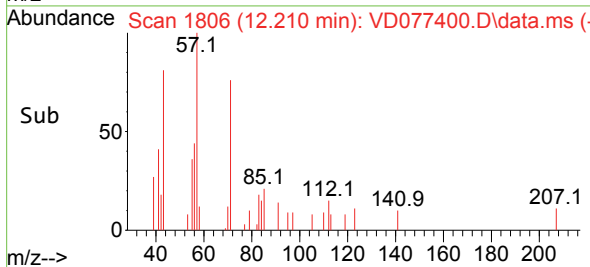
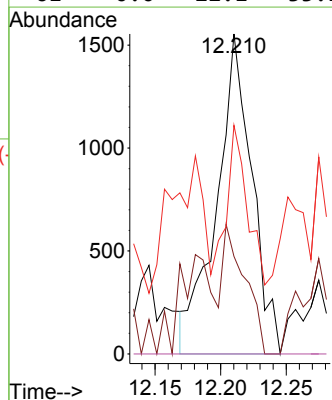
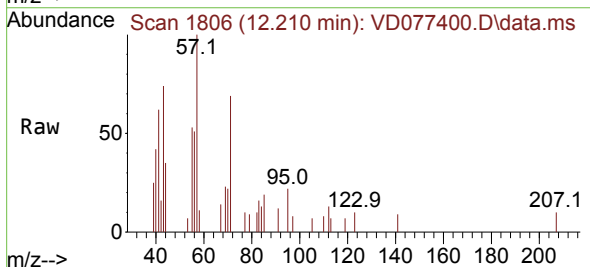


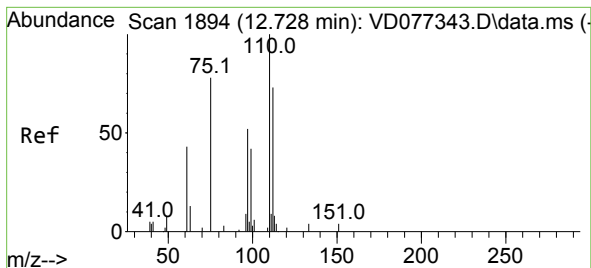
Tgt Ion:105 Resp: 22040
Ion Ratio Lower Upper
105 100
120 25.5 14.3 42.9



#74
N-ethyl acetate
Concen: 4.921 ug/l
RT: 12.210 min Scan# 1806
Delta R.T. -0.024 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 43 Resp: 2908
Ion Ratio Lower Upper
43 100
70 25.1 45.0 67.4#
55 29.1 23.8 35.6
61 0.0 22.1 33.1#





#76

1,2,3-Trichloropropane

Concen: 32.798 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

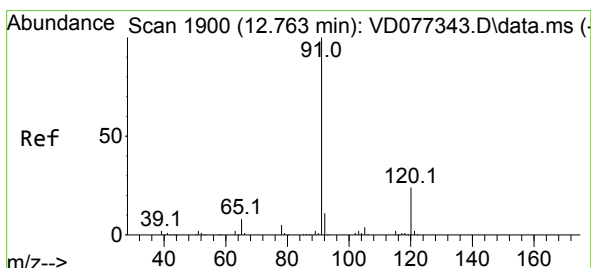
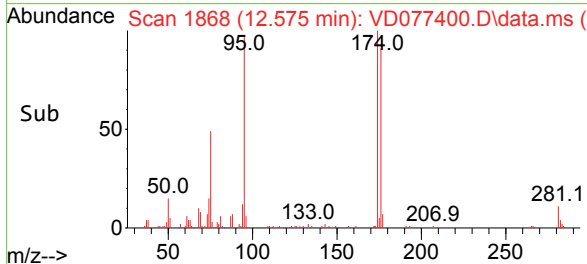
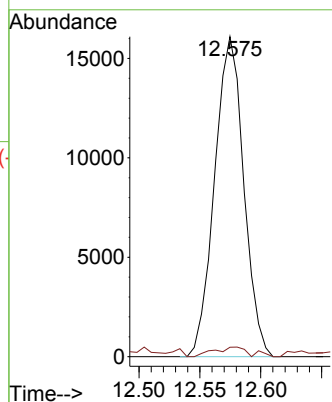
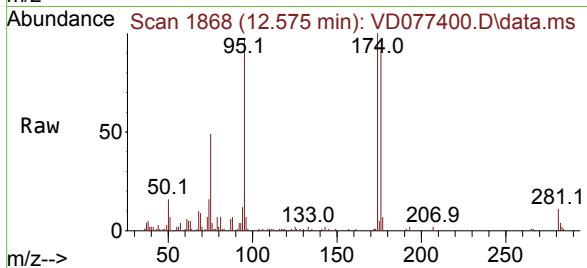
ClientSampleId :

Tgt Ion: 75 Resp: 26812

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#



#78

n-propylbenzene

Concen: 6.508 ug/l

RT: 12.763 min Scan# 1900

Delta R.T. -0.000 min

Lab File: VD077400.D

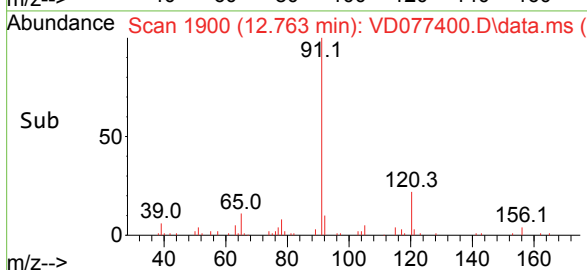
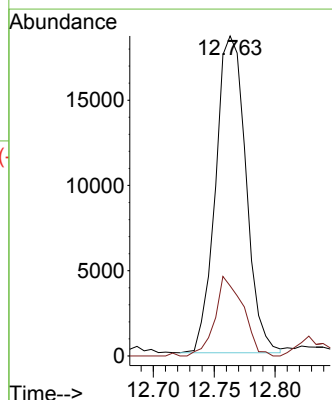
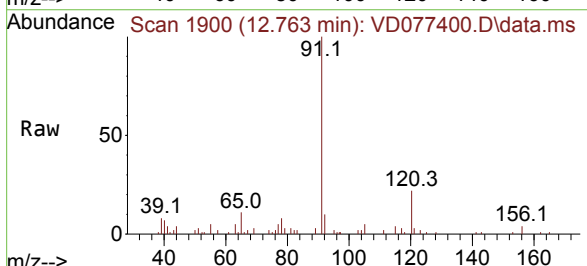
Acq: 24 Oct 2023 17:43

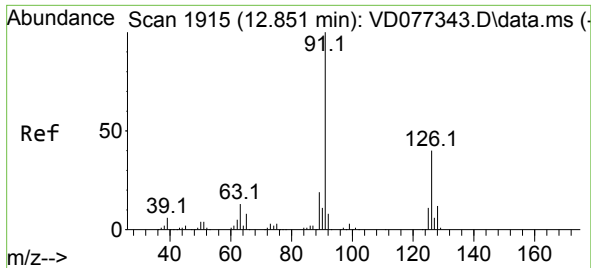
Tgt Ion: 91 Resp: 32199

Ion Ratio Lower Upper

91 100

120 23.1 12.4 37.2

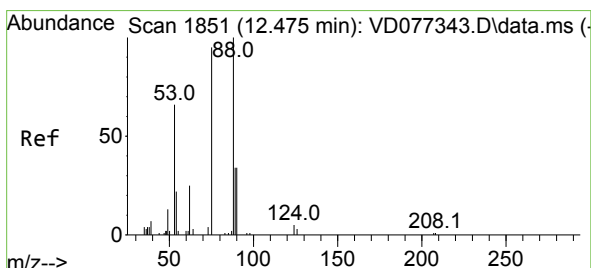
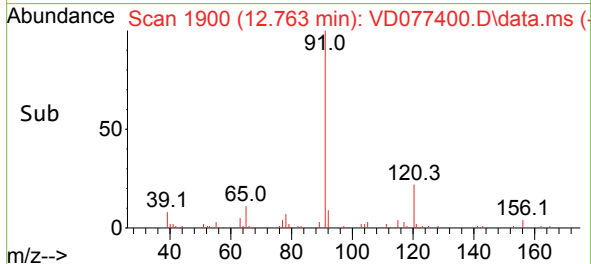
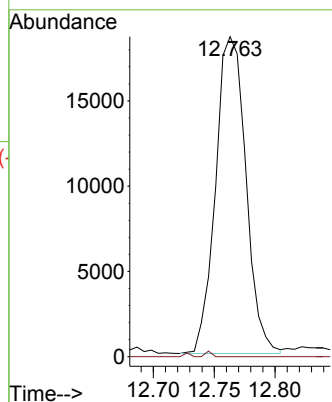
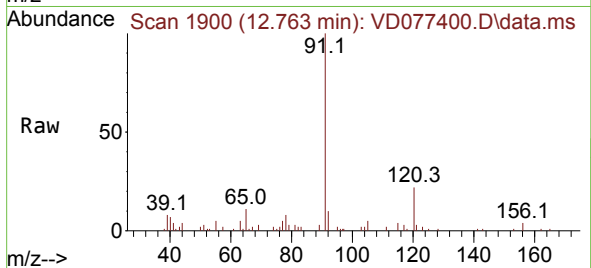




#79
2-Chlorotoluene
Concen: 11.949 ug/l
RT: 12.763 min Scan# 1915
Delta R.T. -0.088 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

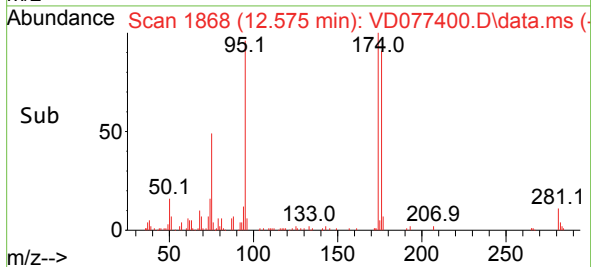
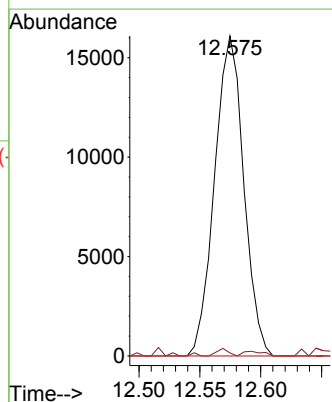
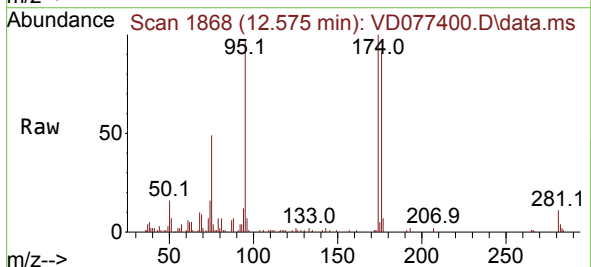
Instrument :
MSVOA_D
ClientSampleId :

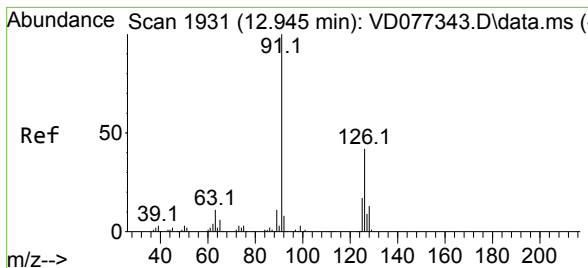
Tgt Ion: 91 Resp: 32199
Ion Ratio Lower Upper
91 100
126 0.4 19.4 58.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 115.681 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.100 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 75 Resp: 26812
Ion Ratio Lower Upper
75 100
53 1.0 63.0 94.4#
89 0.0 37.9 56.9#





#82

4-Chlorotoluene

Concen: 1.519 ug/l

RT: 13.063 min Scan# 1931

Delta R.T. 0.118 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

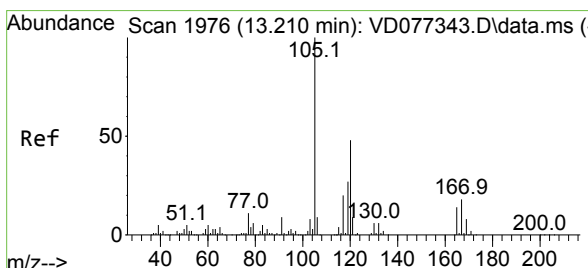
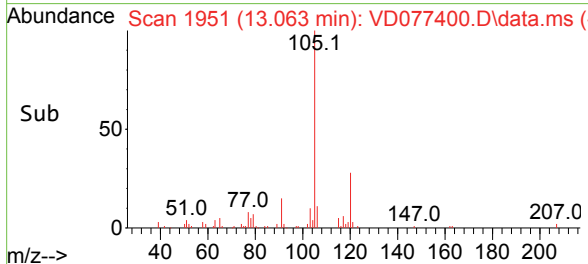
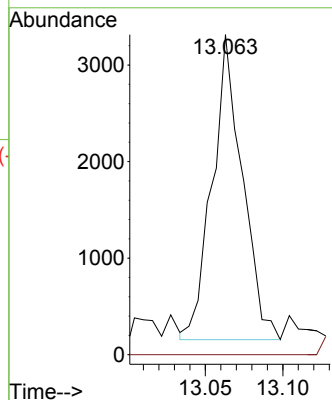
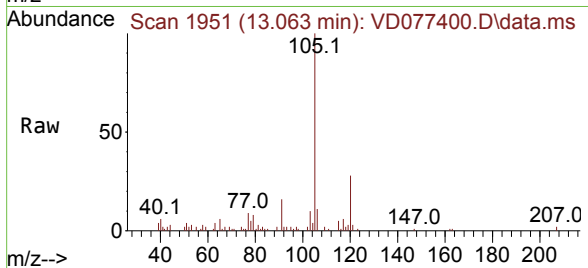
ClientSampleId :

Tgt Ion: 91 Resp: 4262

Ion Ratio Lower Upper

91 100

126 0.0 19.4 58.4#



#84

1,2,4-Trimethylbenzene

Concen: 1.625 ug/l

RT: 13.210 min Scan# 1976

Delta R.T. -0.000 min

Lab File: VD077400.D

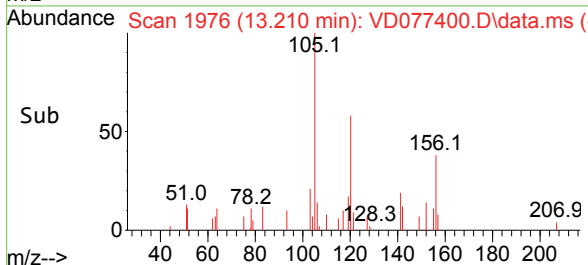
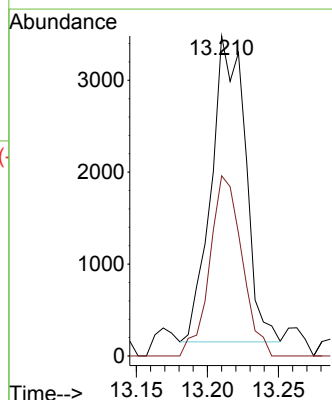
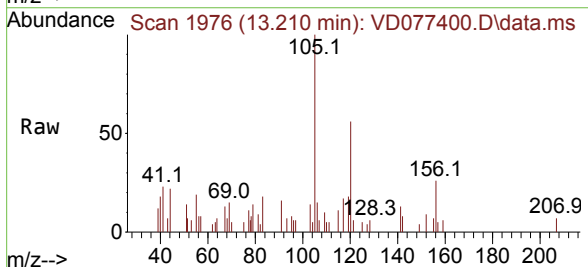
Acq: 24 Oct 2023 17:43

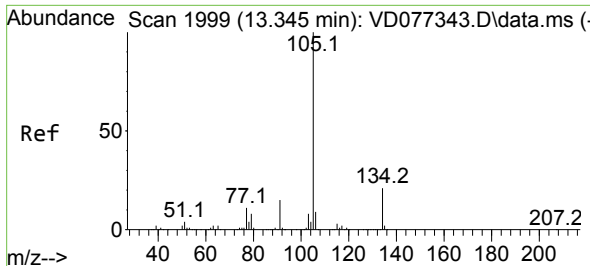
Tgt Ion: 105 Resp: 5546

Ion Ratio Lower Upper

105 100

120 55.7 24.3 72.9

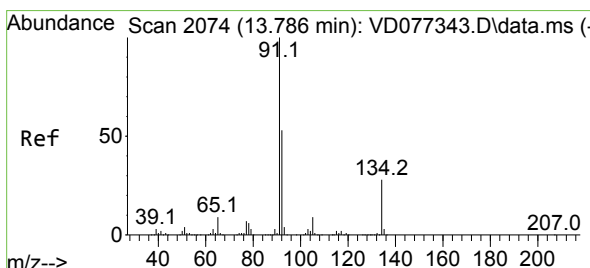
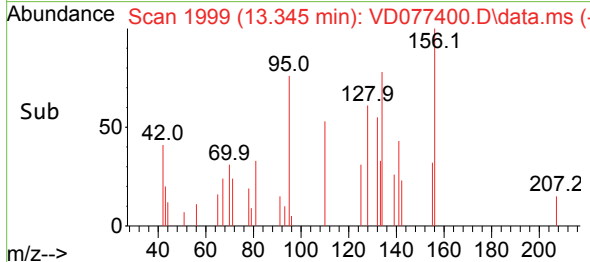
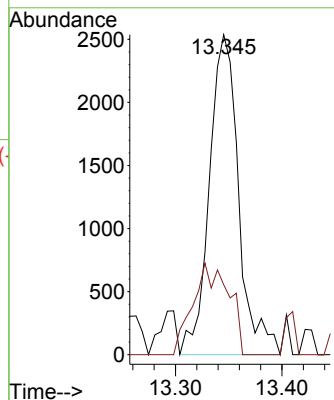
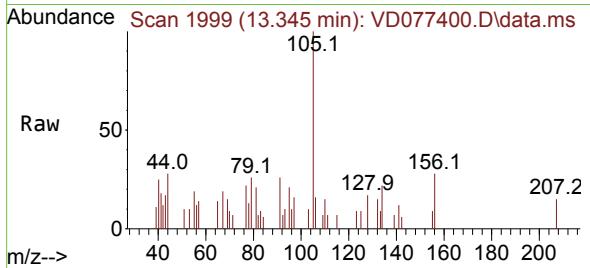




#85
sec-Butylbenzene
Concen: 1.070 ug/l
RT: 13.345 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

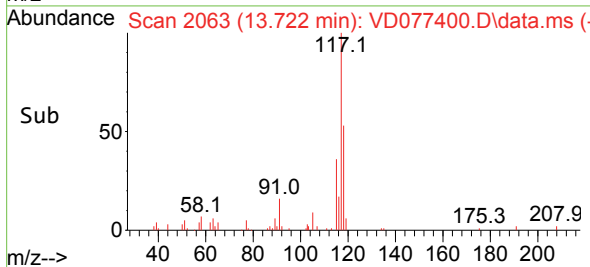
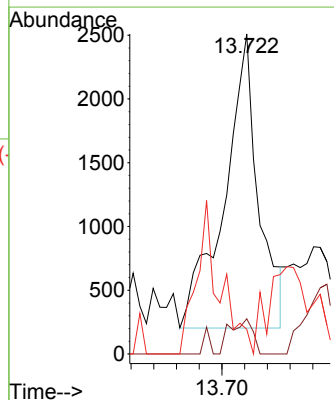
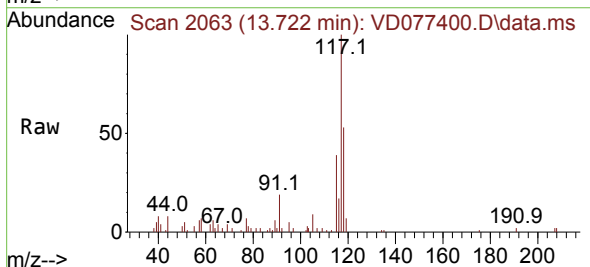
Instrument :
MSVOA_D
ClientSampleId :

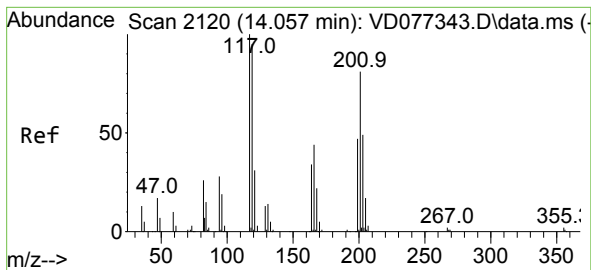
Tgt Ion:105 Resp: 4841
Ion Ratio Lower Upper
105 100
134 35.0 10.9 32.9#



#89
n-Butylbenzene
Concen: 1.404 ug/l
RT: 13.722 min Scan# 2063
Delta R.T. -0.065 min
Lab File: VD077400.D
Acq: 24 Oct 2023 17:43

Tgt Ion: 91 Resp: 4805
Ion Ratio Lower Upper
91 100
92 8.0 26.5 79.5#
134 0.0 13.8 41.3#





#90

Hexachloroethane

Concen: 1.558 ug/l

RT: 14.057 min Scan# 2120

Delta R.T. -0.000 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Instrument :

MSVOA_D

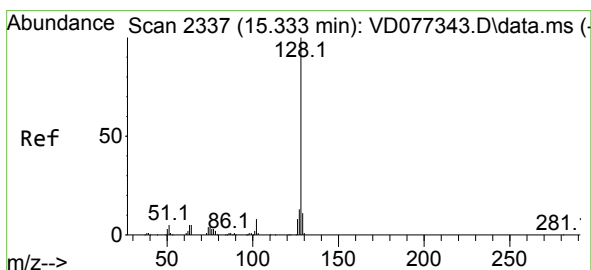
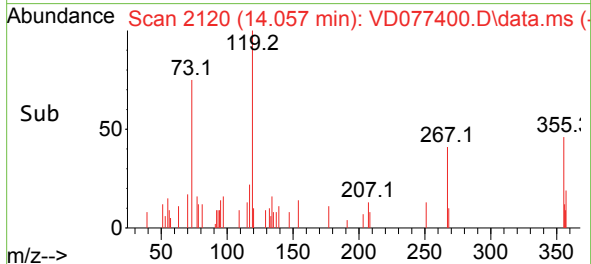
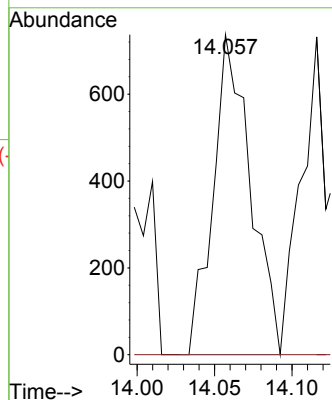
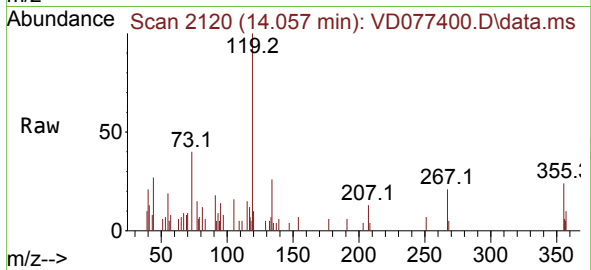
ClientSampleId :

Tgt Ion:117 Resp: 1237

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#95

Naphthalene

Concen: 81.273 ug/l

RT: 15.333 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VD077400.D

Acq: 24 Oct 2023 17:43

Tgt Ion:128 Resp: 163918

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 10.8 8.7 13.1

