

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122123\
 Data File : VD078025.D
 Acq On : 21 Dec 2023 14:57
 Operator : RP/MD
 Sample : 05940-01
 Misc : 5.05G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 22 05:16:14 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)

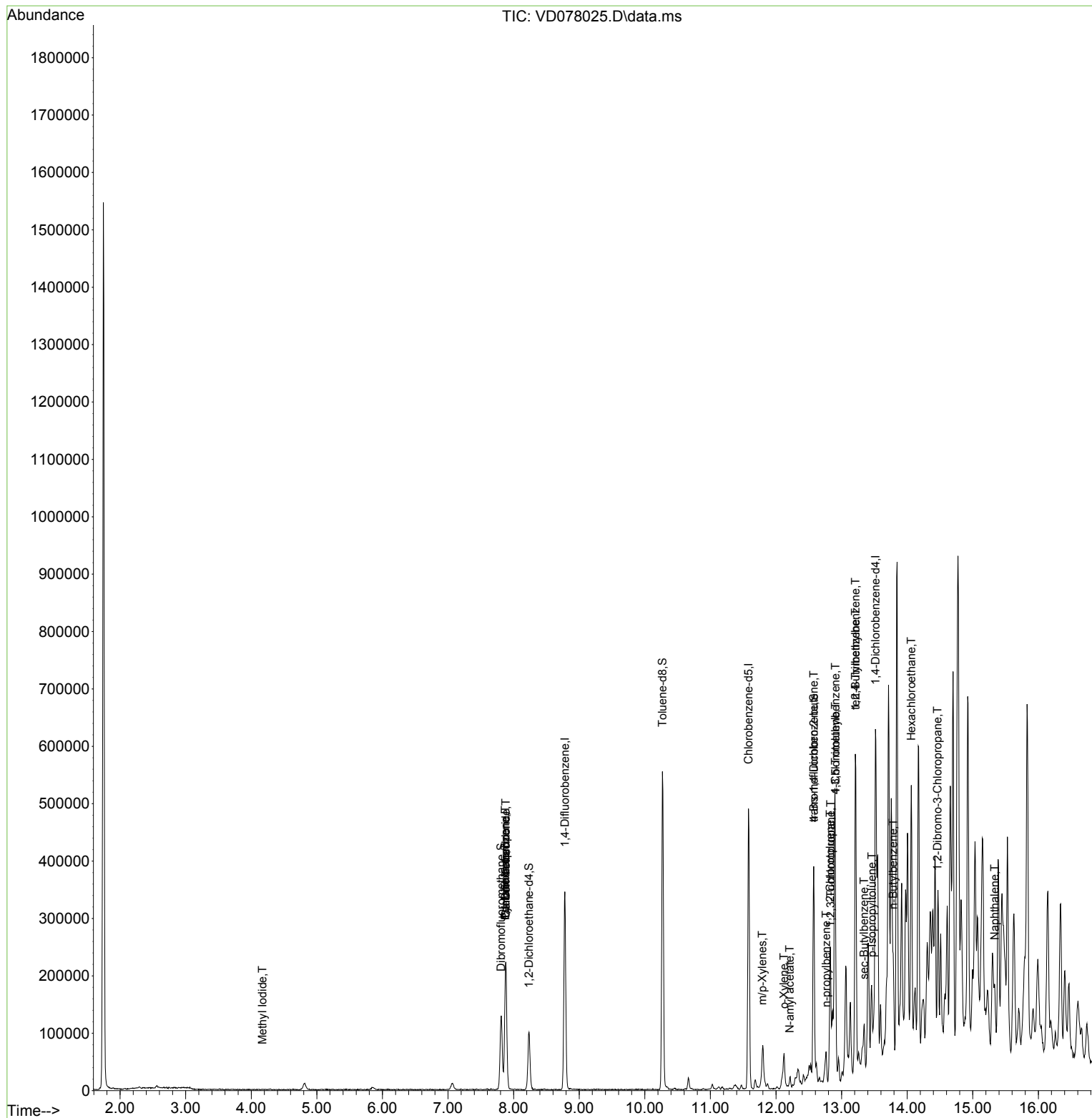
Internal Standards						
1) Pentafluorobenzene	7.875	168	171018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	302428	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	283339	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	136055	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	77349	38.383	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	76.760%		
35) Dibromofluoromethane	7.811	113	94565	44.640	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	89.280%		
50) Toluene-d8	10.269	98	391168	46.104	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.200%		
62) 4-Bromofluorobenzene	12.575	95	108908	42.934	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	85.860%		
Target Compounds						Qvalue
10) Methyl Iodide	4.170	142	181	6.827	ug/l #	46
11) Tert butyl alcohol	5.040	59	201	Below Cal	#	73
16) Acetone	4.052	43	506	Below Cal	#	32
20) Methylene Chloride	4.817	84	8441	Below Cal	#	88
25) 2-Butanone	7.069	43	297	Below Cal	#	37
31) Cyclohexane	7.875	56	3750	1.046	ug/l #	42
36) 1,1-Dichloropropene	7.875	75	14320	4.226	ug/l #	47
38) Carbon Tetrachloride	7.881	117	16776	4.966	ug/l #	18
65) Chlorobenzene	11.599	112	181	Below Cal	#	43
68) m/p-Xylenes	11.793	106	13181	2.921	ug/l	94
69) o-Xylene	12.122	106	14975	3.601	ug/l	93
74) N-amyl acetate	12.210	43	3566	1.759	ug/l #	71
76) 1,2,3-Trichloropropane	12.834	75	2106	1.782	ug/l #	100
78) n-propylbenzene	12.763	91	41119	3.272	ug/l	94
79) 2-Chlorotoluene	12.828	91	18296	2.717	ug/l #	38
80) 1,3,5-Trimethylbenzene	12.904	105	84766	9.856	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.575	75	59737	102.426	ug/l #	18
82) 4-Chlorotoluene	12.904	91	8771	1.246	ug/l #	40
83) tert-Butylbenzene	13.210	119	39002	5.372	ug/l #	63
84) 1,2,4-Trimethylbenzene	13.210	105	304618	35.412	ug/l	97
85) sec-Butylbenzene	13.345	105	40963	3.817	ug/l	93
86) p-Isopropyltoluene	13.463	119	34471	3.587	ug/l	98
88) 1,4-Dichlorobenzene	13.540	146	416	Below Cal	#	1
89) n-Butylbenzene	13.787	91	78036	8.631	ug/l #	74
90) Hexachloroethane	14.063	117	21460	12.144	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.463	75	1158	3.535	ug/l #	1
95) Naphthalene	15.334	128	44241	9.241	ug/l #	92

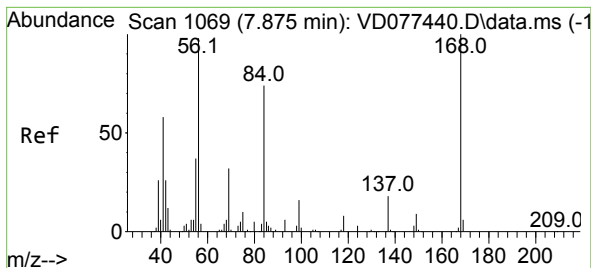
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1069

Delta R.T. 0.000 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Instrument :

MSVOA_D

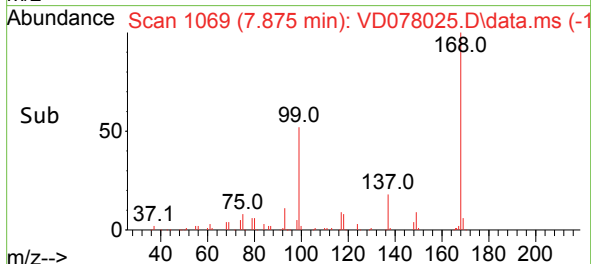
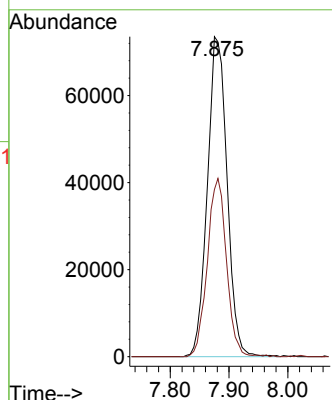
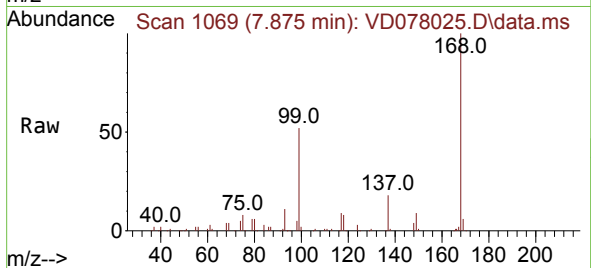
ClientSampleId :

Tgt Ion:168 Resp: 171018

Ion Ratio Lower Upper

168 100

99 52.3 36.7 55.1



#10

Methyl Iodide

Concen: 6.827 ug/l

RT: 4.170 min Scan# 439

Delta R.T. 0.001 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

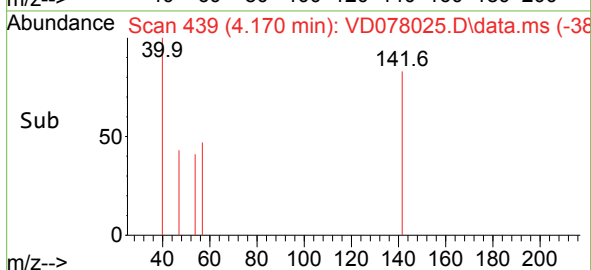
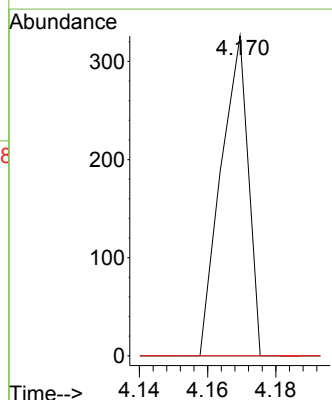
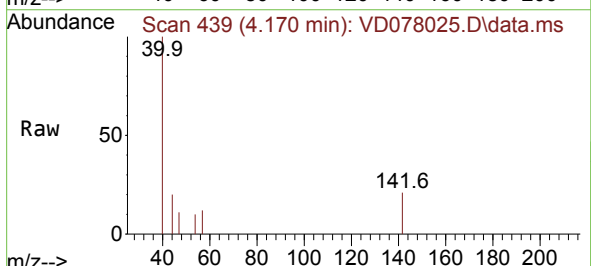
Tgt Ion:142 Resp: 181

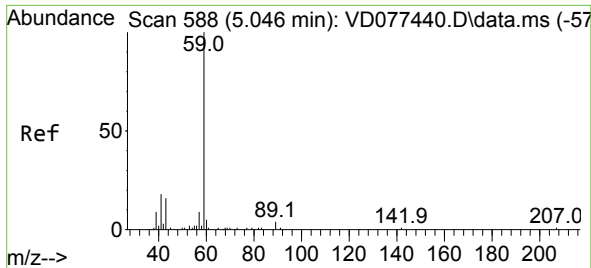
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

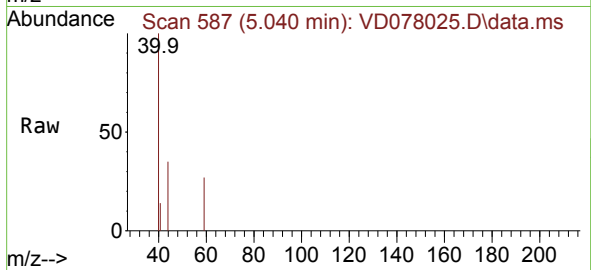
141 0.0 11.1 16.7#



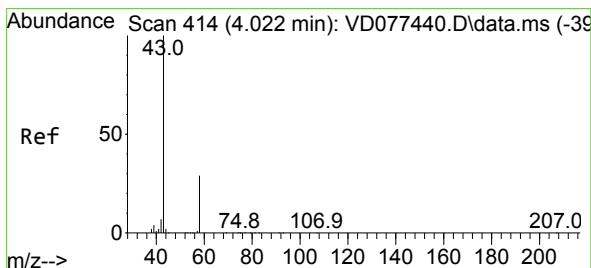
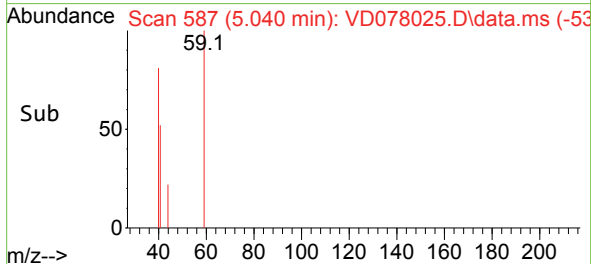
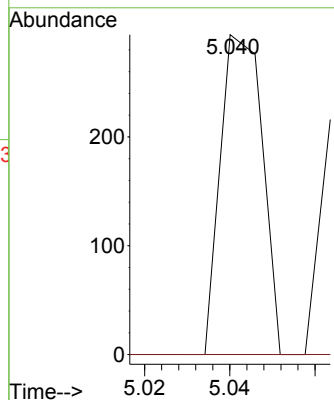


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.040 min Scan# 51
Delta R.T. -0.006 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Instrument :
MSVOA_D
ClientSampleId :

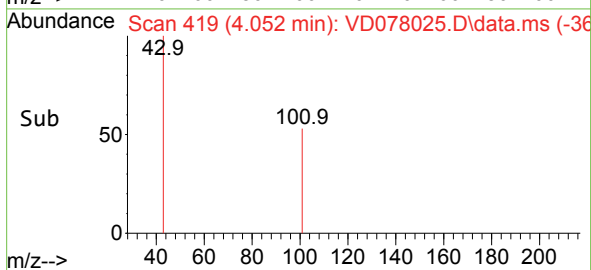
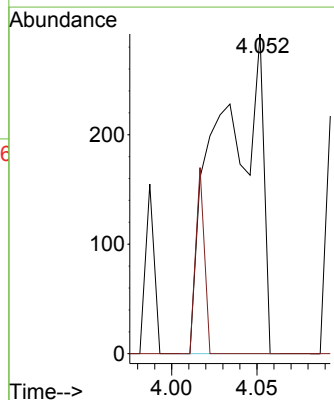
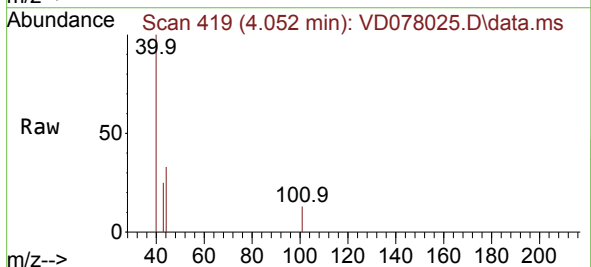


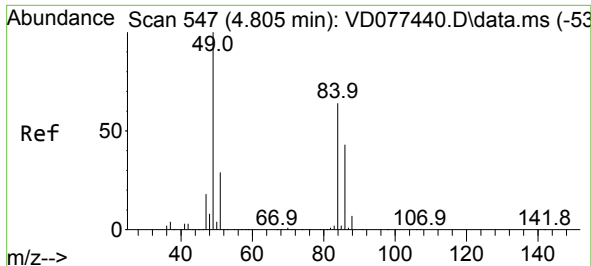
Tgt Ion: 59 Resp: 201
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: Below Cal
RT: 4.052 min Scan# 419
Delta R.T. 0.030 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

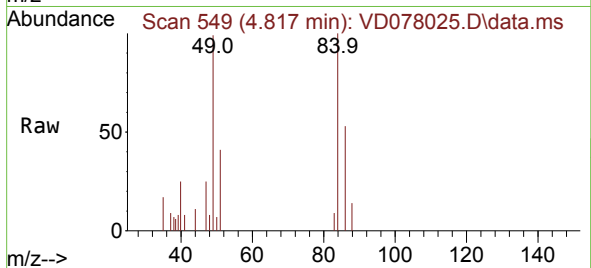
Tgt Ion: 43 Resp: 506
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



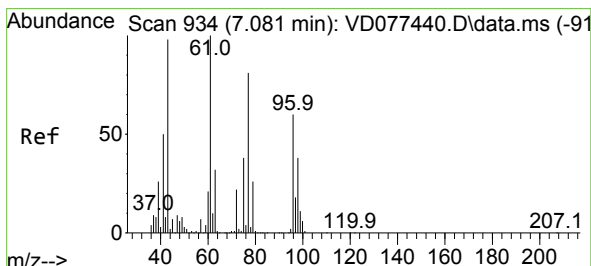
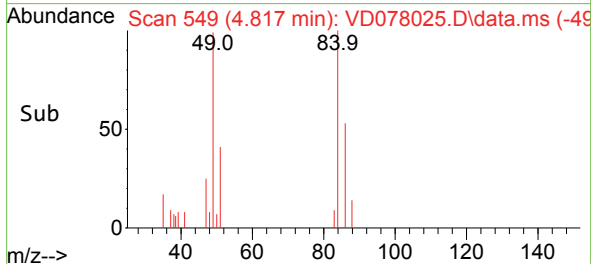
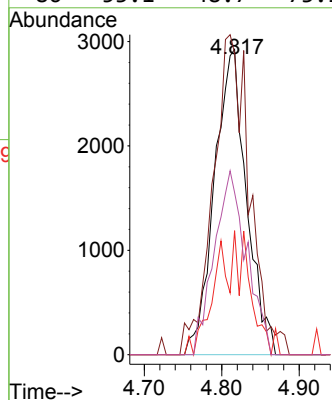


#20
Methylene Chloride
Concen: Below Cal
RT: 4.817 min Scan# 549
Delta R.T. 0.012 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Instrument :
MSVOA_D
ClientSampleId :

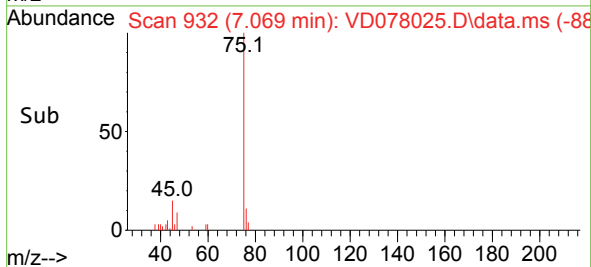
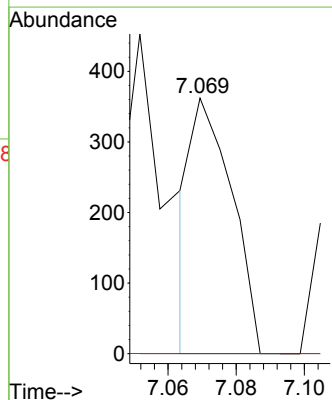
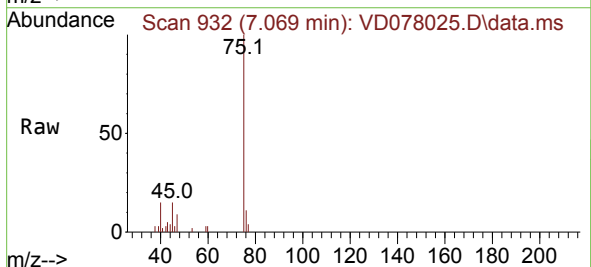


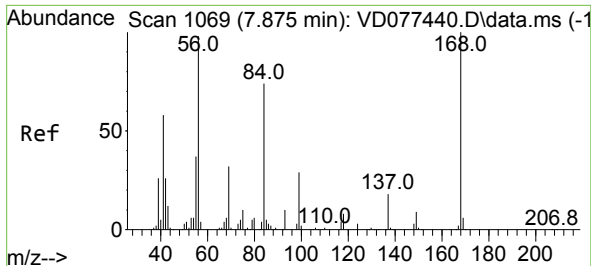
Tgt Ion: 84 Resp: 8441
Ion Ratio Lower Upper
84 100
49 98.7 71.4 107.2
51 40.6 24.5 36.7#
86 53.1 48.7 73.1



#25
2-Butanone
Concen: Below Cal
RT: 7.069 min Scan# 932
Delta R.T. -0.012 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

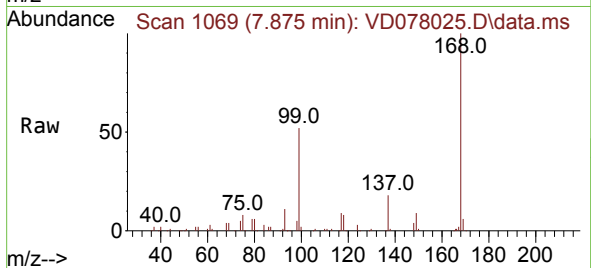
Tgt Ion: 43 Resp: 297
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



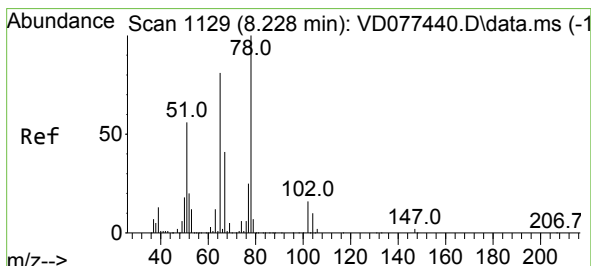
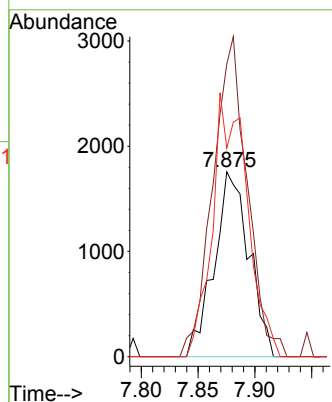
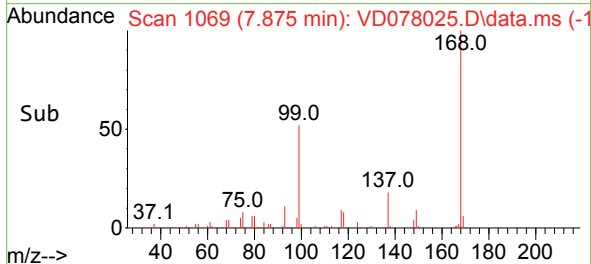


#31
Cyclohexane
Concen: 1.046 ug/l
RT: 7.875 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Instrument :
MSVOA_D
ClientSampleId :

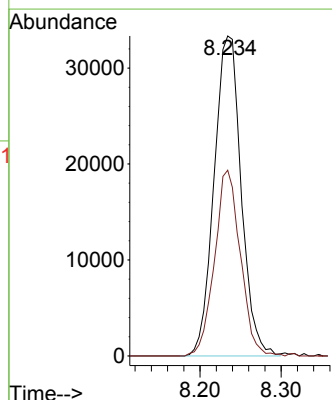
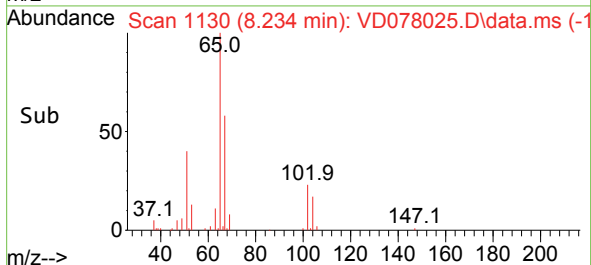
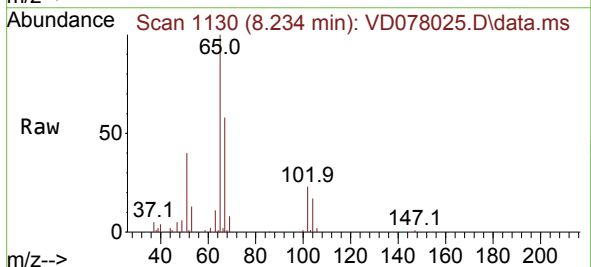


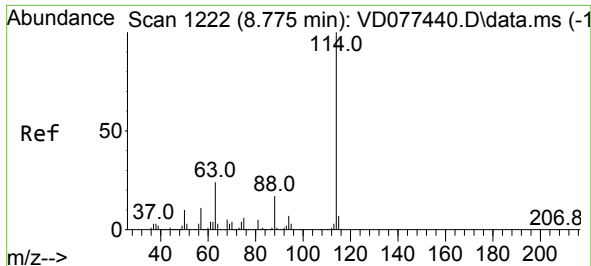
Tgt Ion: 56 Resp: 3750
Ion Ratio Lower Upper
56 100
69 158.3 28.6 43.0#
84 112.8 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 38.383 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion: 65 Resp: 77349
Ion Ratio Lower Upper
65 100
67 55.3 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Instrument :

MSVOA_D

ClientSampleId :

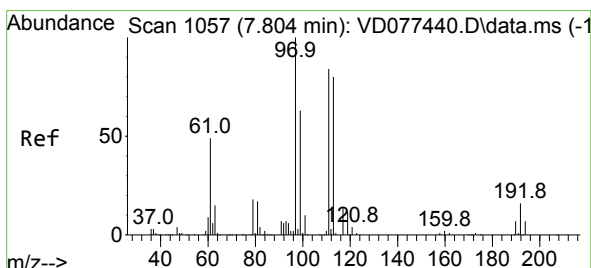
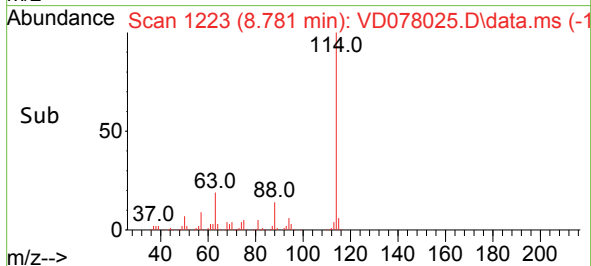
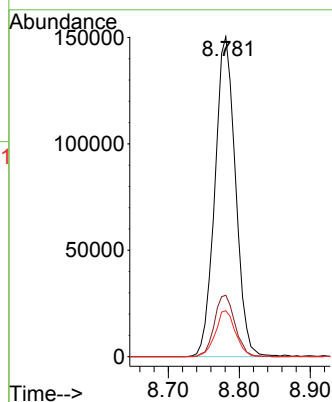
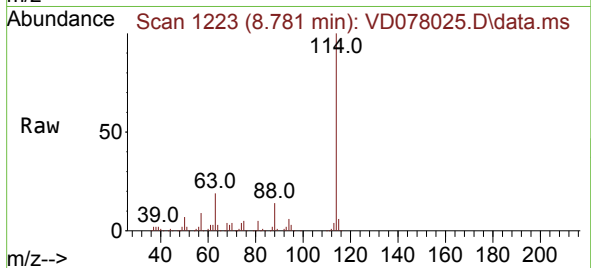
Tgt Ion:114 Resp: 302428

Ion Ratio Lower Upper

114 100

63 19.2 0.0 33.4

88 14.4 0.0 26.2



#35

Dibromofluoromethane

Concen: 44.640 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

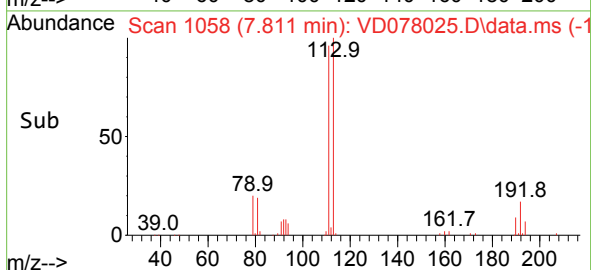
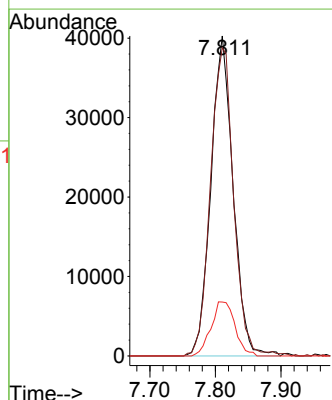
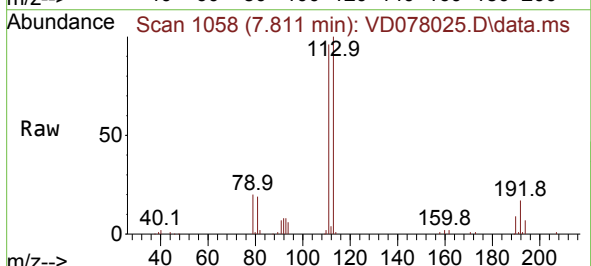
Tgt Ion:113 Resp: 94565

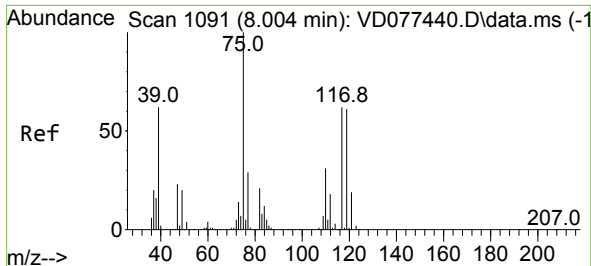
Ion Ratio Lower Upper

113 100

111 100.8 84.7 127.1

192 18.2 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.226 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

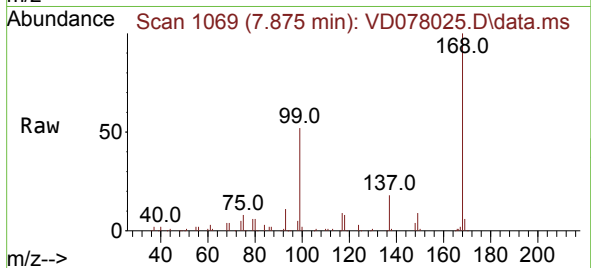
Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Instrument :

MSVOA_D

ClientSampleId :



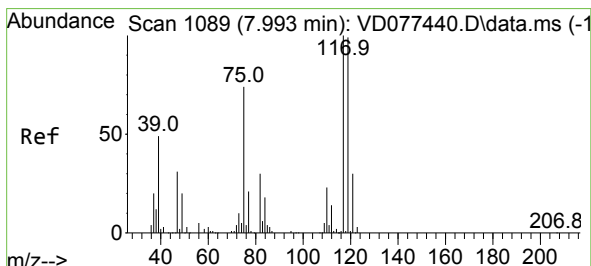
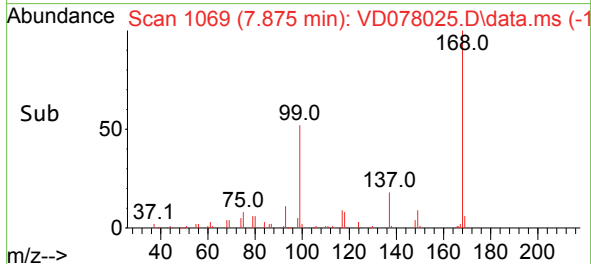
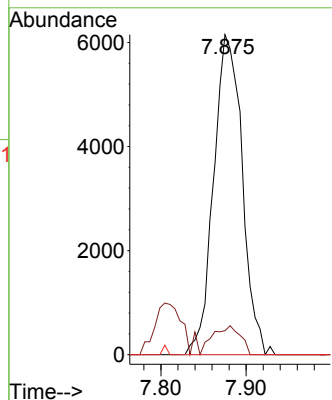
Tgt Ion: 75 Resp: 14320

Ion Ratio Lower Upper

75 100

110 8.8 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 4.966 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

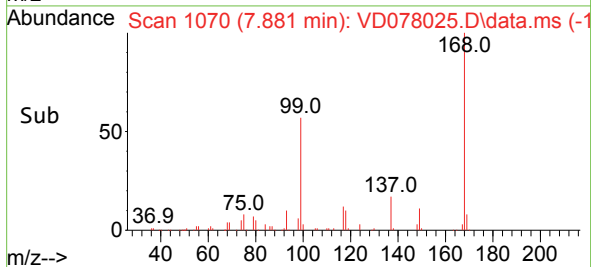
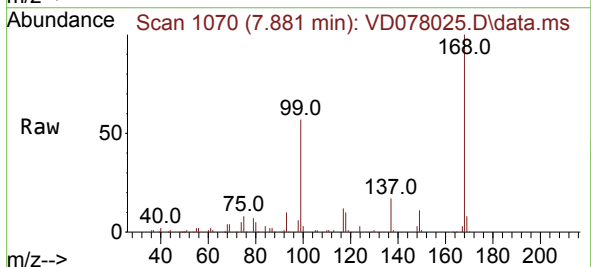
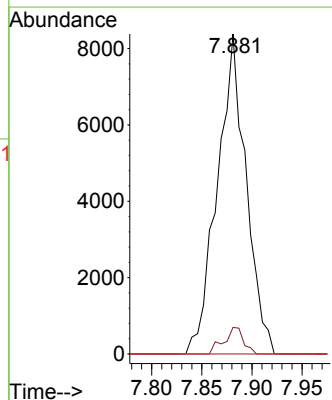
Tgt Ion: 117 Resp: 16776

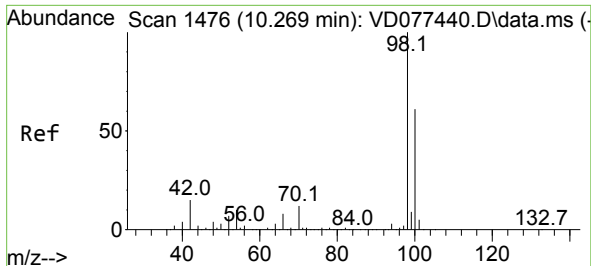
Ion Ratio Lower Upper

117 100

119 8.3 78.0 117.0#

121 0.0 24.2 36.2#

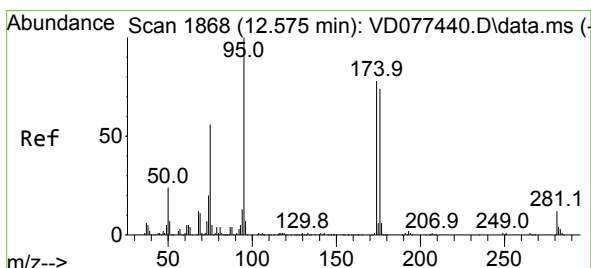
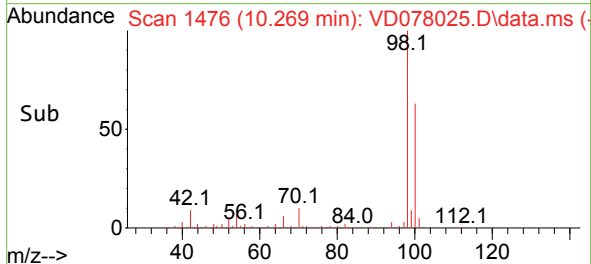
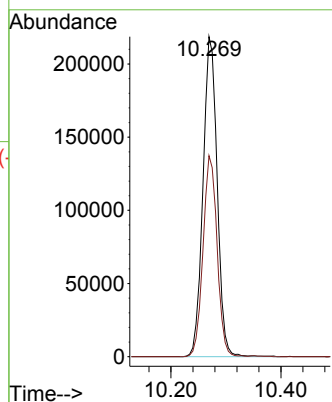
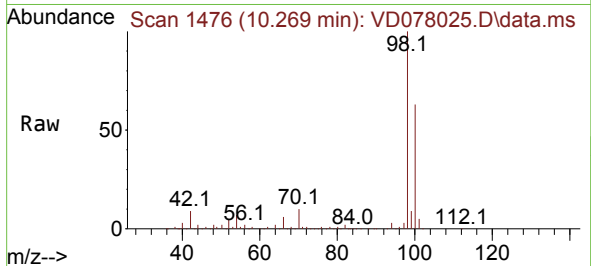




#50
Toluene-d8
Concen: 46.104 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

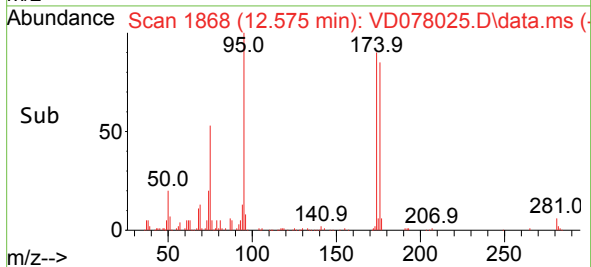
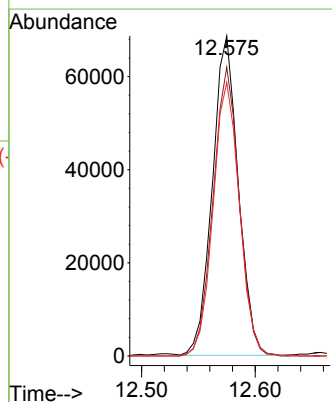
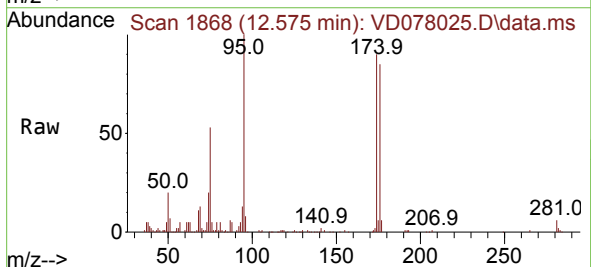
Instrument :
MSVOA_D
ClientSampleId :

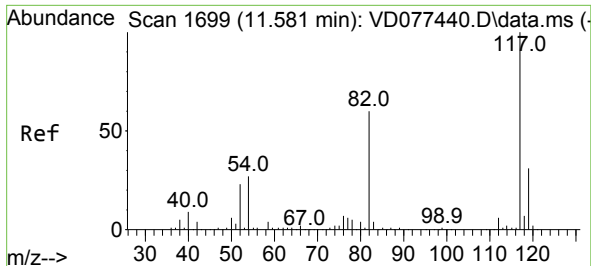
Tgt Ion: 98 Resp: 391168
Ion Ratio Lower Upper
98 100
100 62.3 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 42.934 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

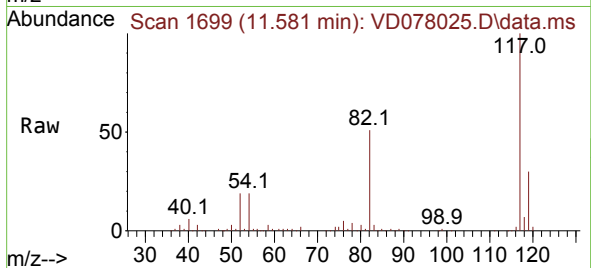
Tgt Ion: 95 Resp: 108908
Ion Ratio Lower Upper
95 100
174 91.1 0.0 201.8
176 86.9 0.0 191.8



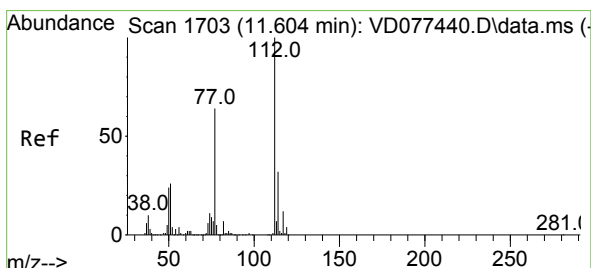
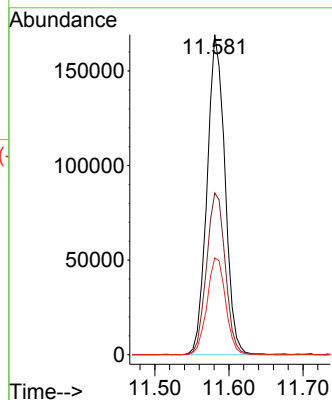
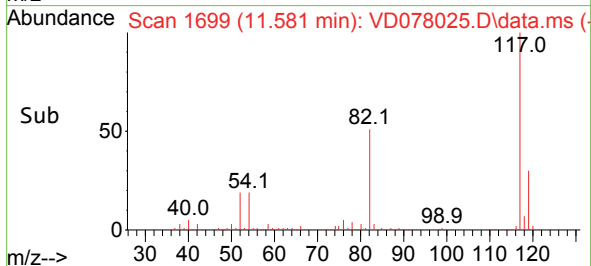


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

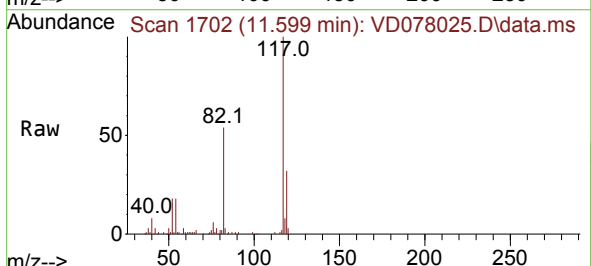
Instrument :
MSVOA_D
ClientSampleId :



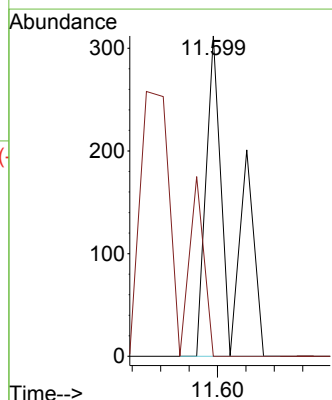
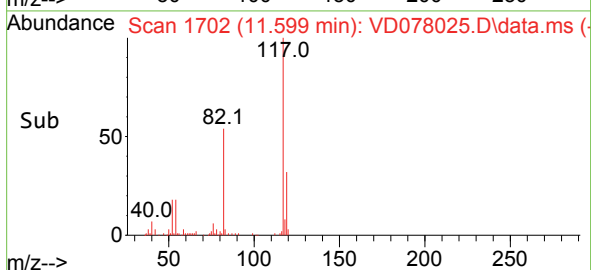
Tgt Ion:117 Resp: 283339
Ion Ratio Lower Upper
117 100
82 50.6 38.3 57.5
119 30.3 25.0 37.4

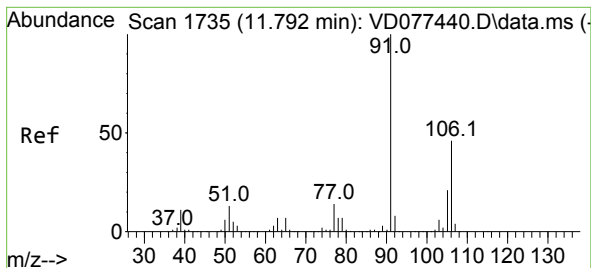


#65
Chlorobenzene
Concen: Below Cal
RT: 11.599 min Scan# 1702
Delta R.T. -0.005 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57



Tgt Ion:112 Resp: 181
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#

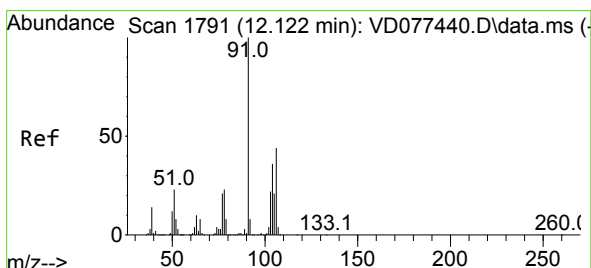
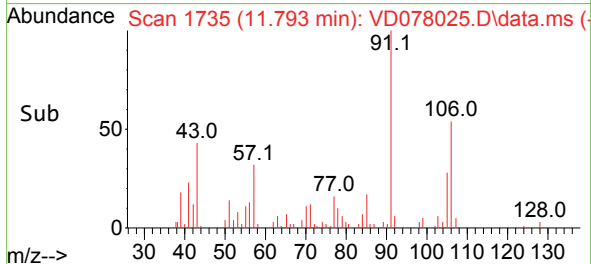
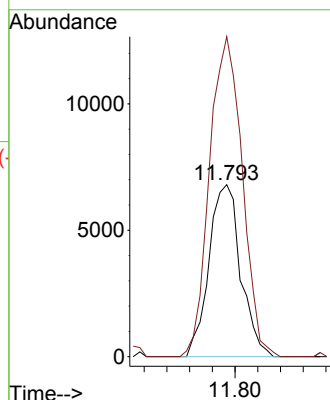
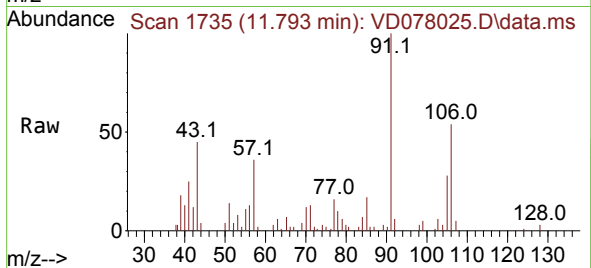




#68
m/p-Xylenes
Concen: 2.921 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.001 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

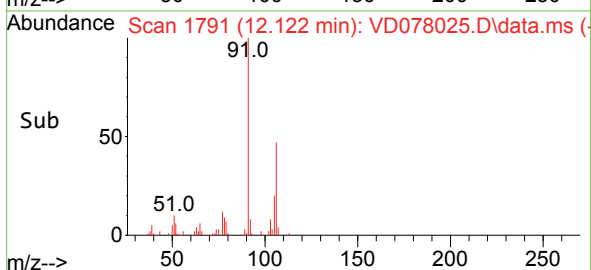
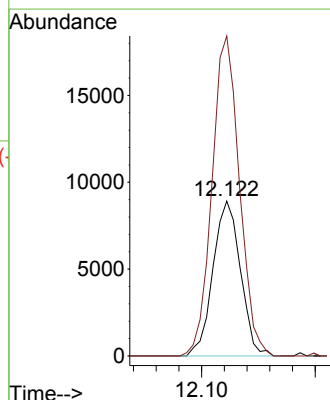
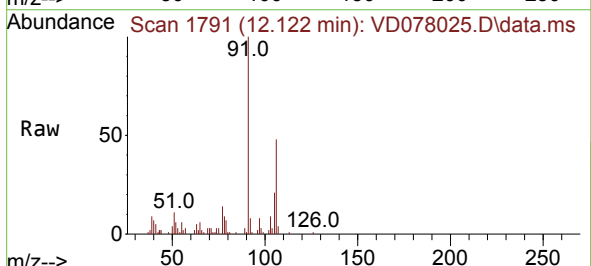
Instrument :
MSVOA_D
ClientSampleId :

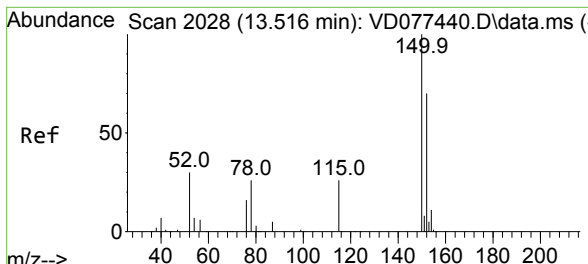
Tgt Ion:106 Resp: 13181
Ion Ratio Lower Upper
106 100
91 192.1 147.0 220.6



#69
o-Xylene
Concen: 3.601 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion:106 Resp: 14975
Ion Ratio Lower Upper
106 100
91 206.1 97.9 293.6



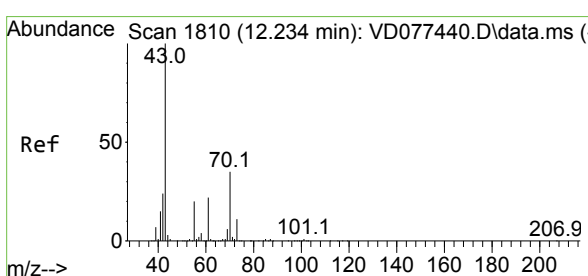
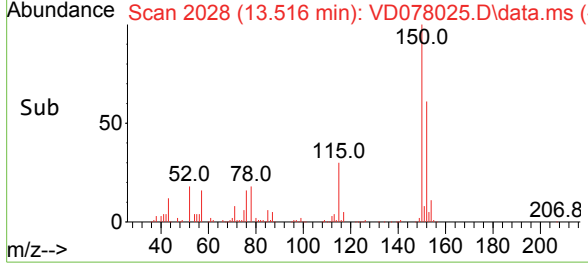
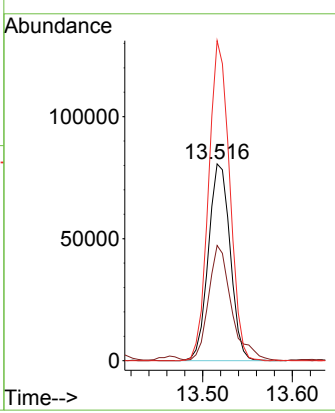
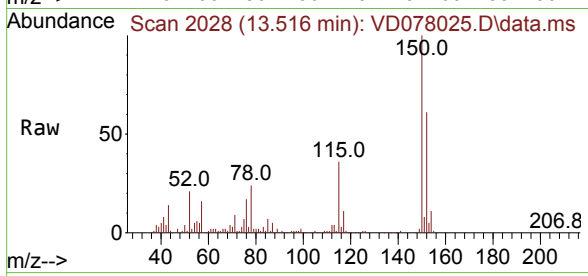


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VD078025.D
 Acq: 21 Dec 2023 14:57

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion:152 Resp: 136055

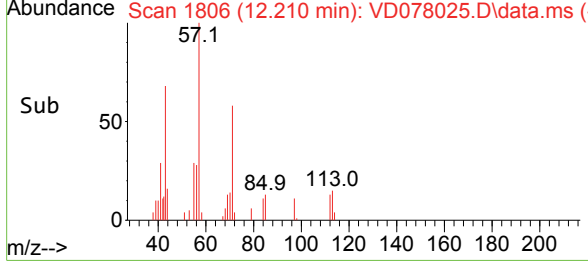
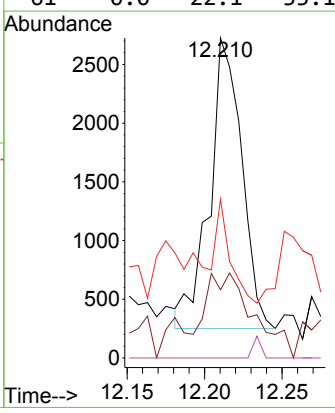
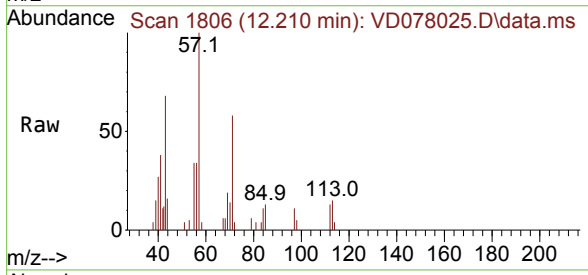
Ion	Ratio	Lower	Upper
152	100		
115	61.8	27.1	81.3
150	156.9	0.0	353.6

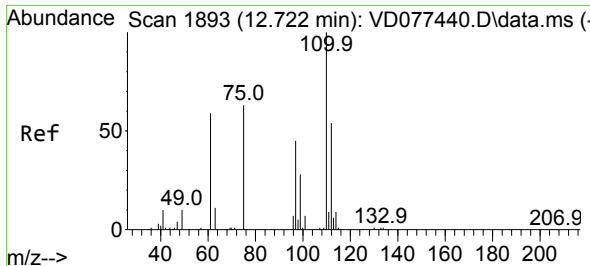


#74
 N-amy1 acetate
 Concen: 1.759 ug/l
 RT: 12.210 min Scan# 1806
 Delta R.T. -0.024 min
 Lab File: VD078025.D
 Acq: 21 Dec 2023 14:57

Tgt Ion: 43 Resp: 3566

Ion	Ratio	Lower	Upper
43	100		
70	42.7	45.0	67.4#
55	15.6	23.8	35.6#
61	0.0	22.1	33.1#

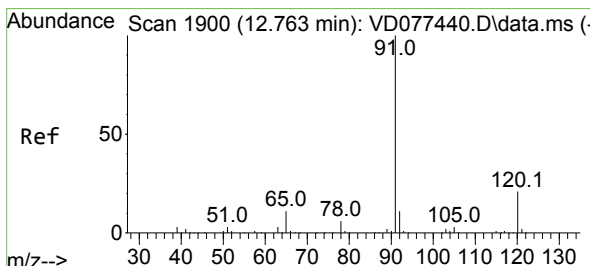
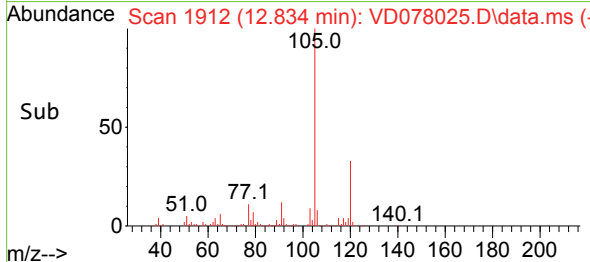
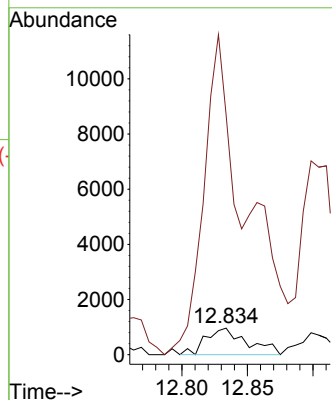
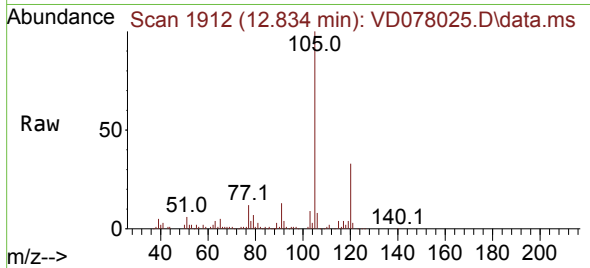




#76
1,2,3-Trichloropropane
Concen: 1.782 ug/l
RT: 12.834 min Scan# 1912
Delta R.T. 0.112 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

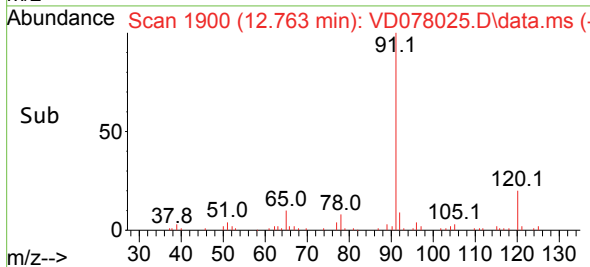
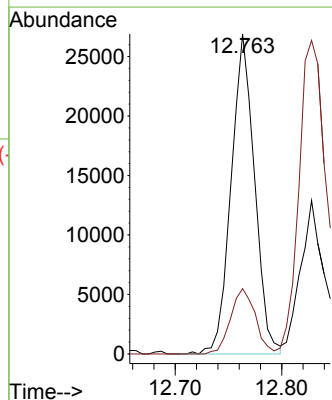
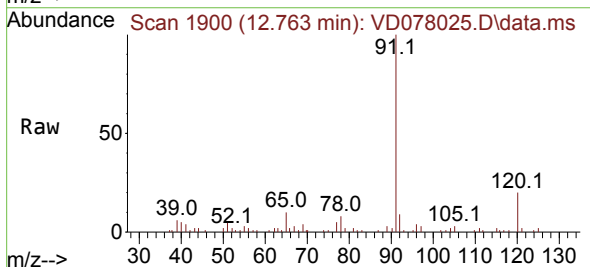
Instrument :
MSVOA_D
ClientSampleId :

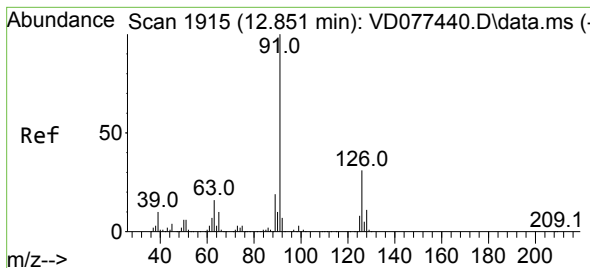
Tgt Ion: 75 Resp: 2106
Ion Ratio Lower Upper
75 100
77 837.7 0.0 0.0#



#78
n-propylbenzene
Concen: 3.272 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion: 91 Resp: 41119
Ion Ratio Lower Upper
91 100
120 21.6 12.4 37.2

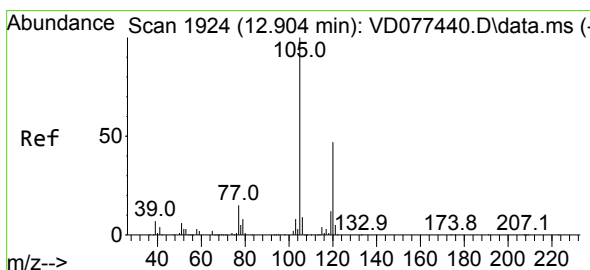
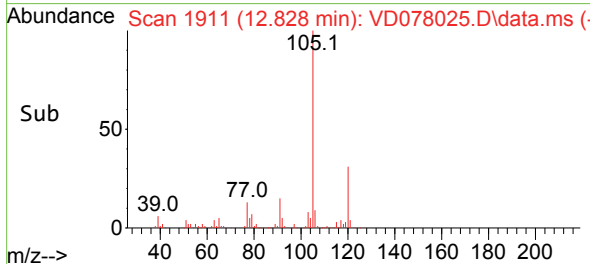
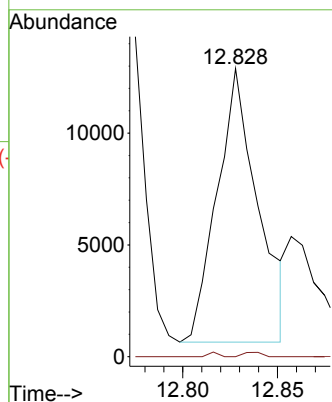
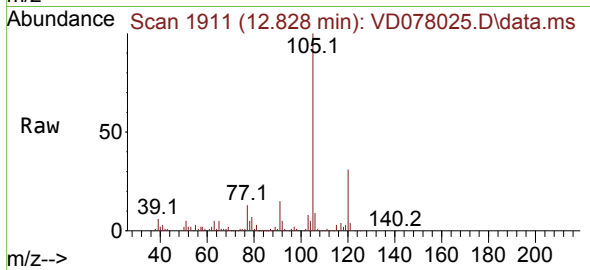




#79
2-Chlorotoluene
Concen: 2.717 ug/l
RT: 12.828 min Scan# 1911
Delta R.T. -0.023 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

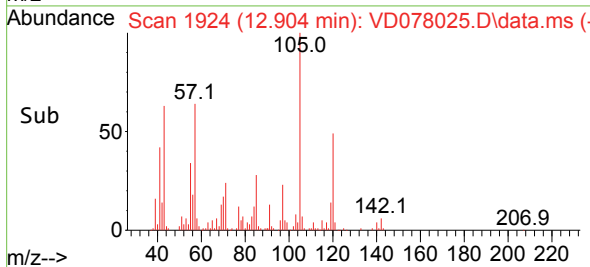
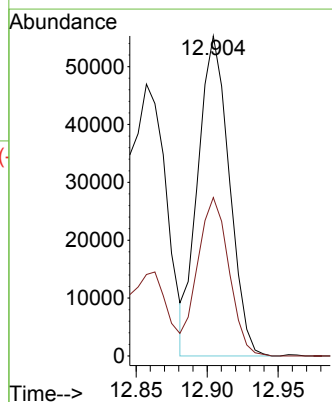
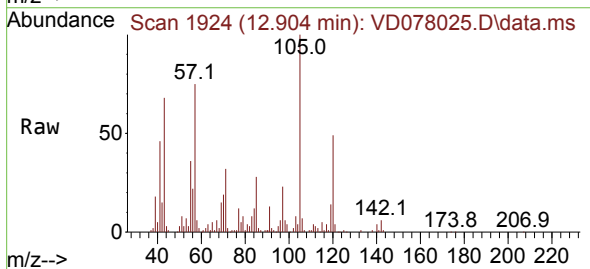
Instrument :
MSVOA_D
ClientSampleId :

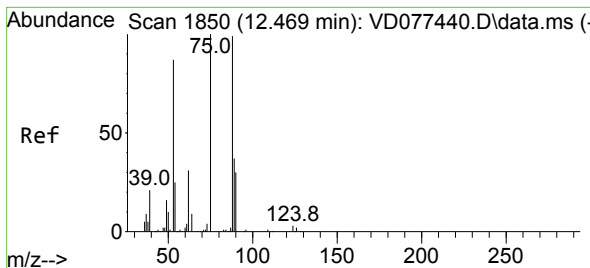
Tgt Ion: 91 Resp: 18296
Ion Ratio Lower Upper
91 100
126 0.7 19.4 58.1#



#80
1,3,5-Trimethylbenzene
Concen: 9.856 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion: 105 Resp: 84766
Ion Ratio Lower Upper
105 100
120 49.5 26.4 79.2

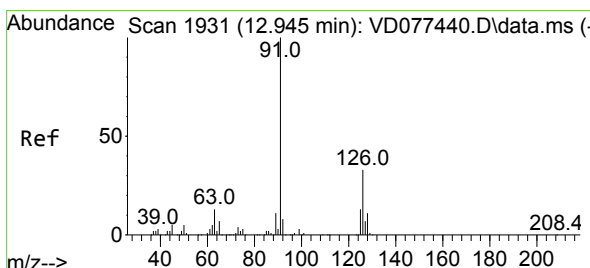
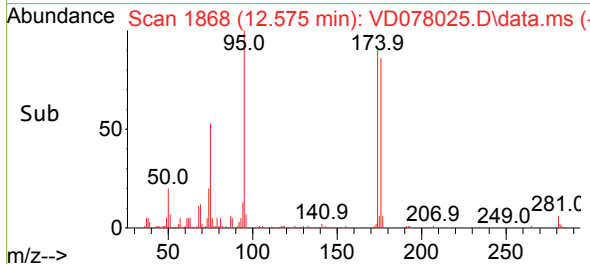
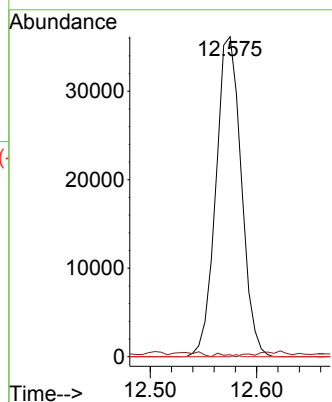
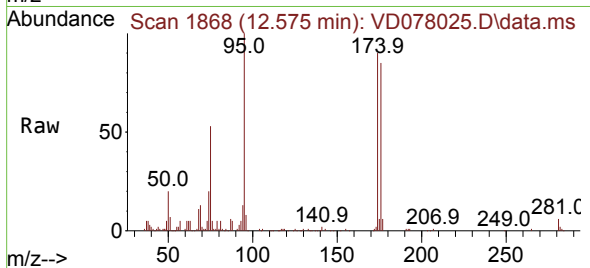




#81
trans-1,4-Dichloro-2-butene
Concen: 102.426 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

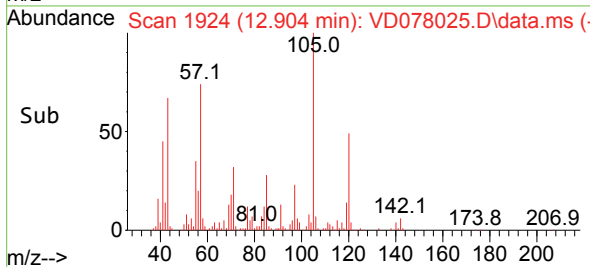
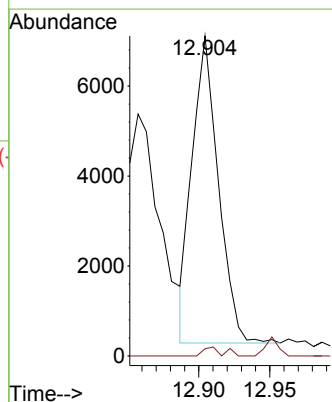
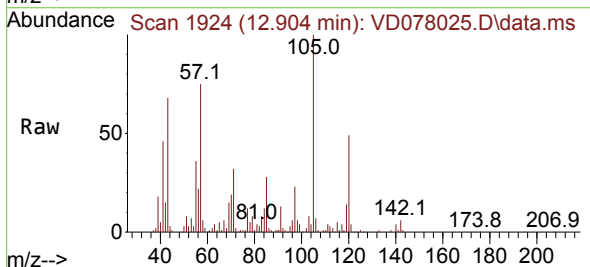
Instrument :
MSVOA_D
ClientSampleId :

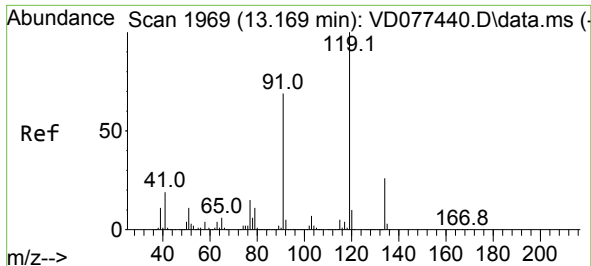
Tgt Ion: 75 Resp: 59737
Ion Ratio Lower Upper
75 100
53 0.5 63.0 94.4#
89 0.2 37.9 56.9#



#82
4-Chlorotoluene
Concen: 1.246 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. -0.041 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion: 91 Resp: 8771
Ion Ratio Lower Upper
91 100
126 2.1 19.4 58.4#

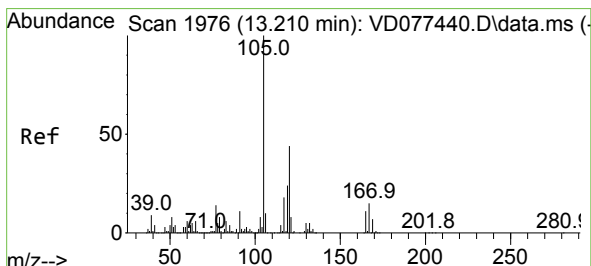
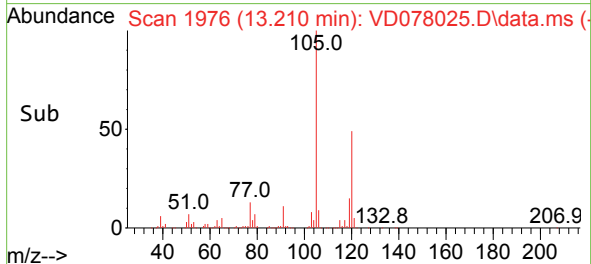
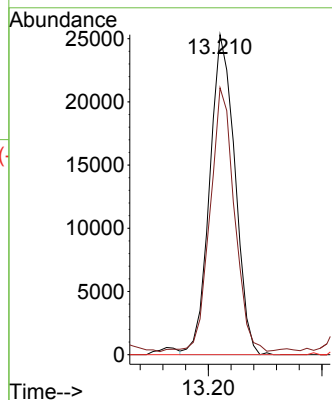
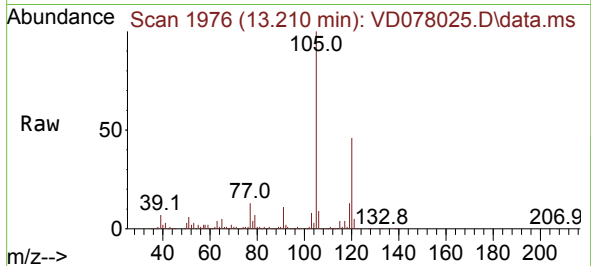




#83
tert-Butylbenzene
Concen: 5.372 ug/l
RT: 13.210 min Scan# 1969
Delta R.T. 0.041 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

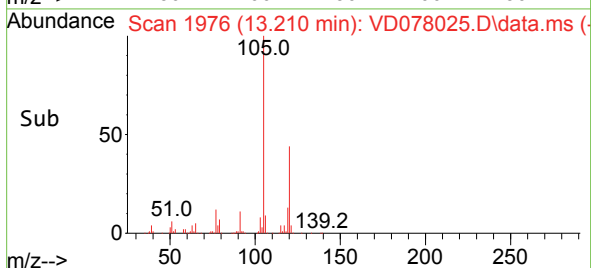
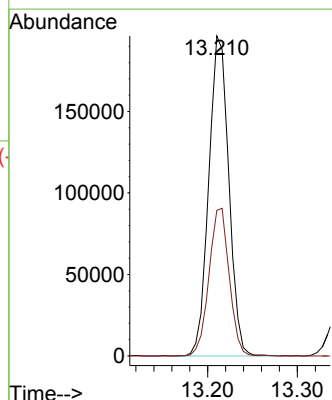
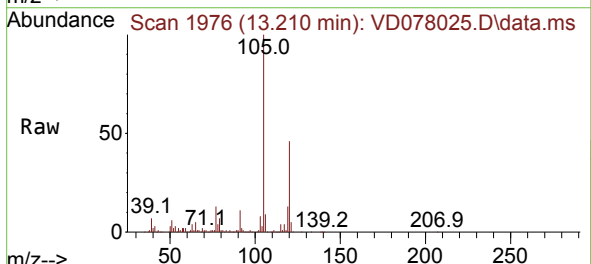
Instrument :
MSVOA_D
ClientSampleId :

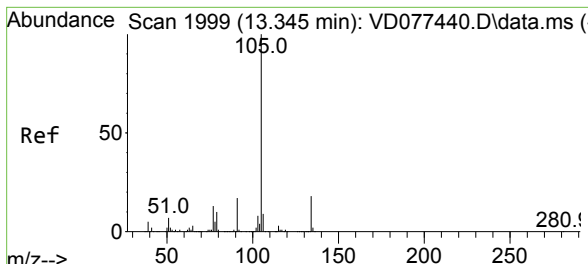
Tgt Ion:119 Resp: 39002
Ion Ratio Lower Upper
119 100
91 79.9 29.3 87.8
134 0.0 14.1 42.3#



#84
1,2,4-Trimethylbenzene
Concen: 35.412 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD078025.D
Acq: 21 Dec 2023 14:57

Tgt Ion:105 Resp: 304618
Ion Ratio Lower Upper
105 100
120 46.5 24.3 72.9

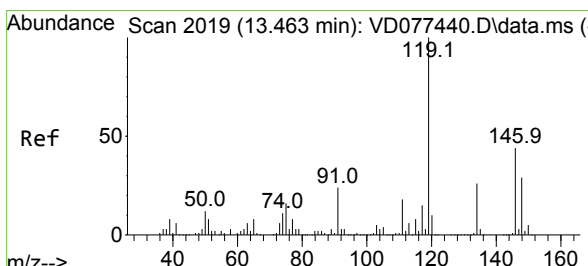
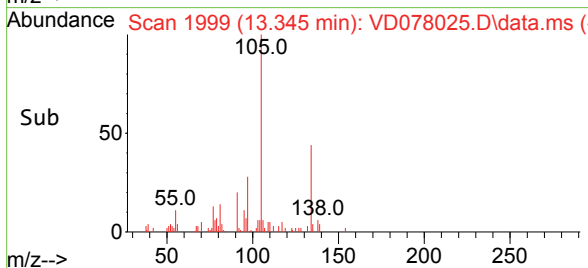
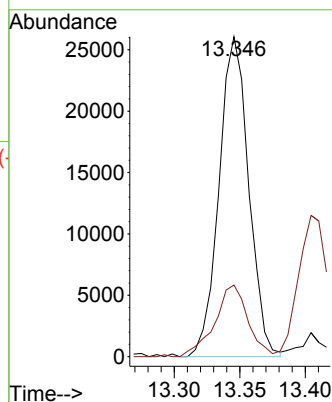
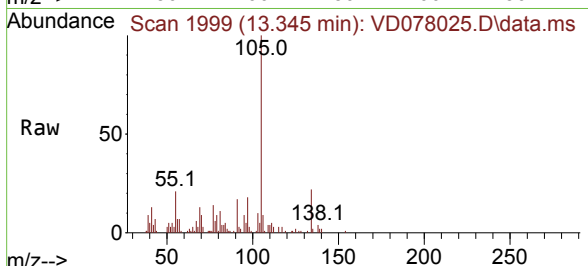




#85
 sec-Butylbenzene
 Concen: 3.817 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VD078025.D
 Acq: 21 Dec 2023 14:57

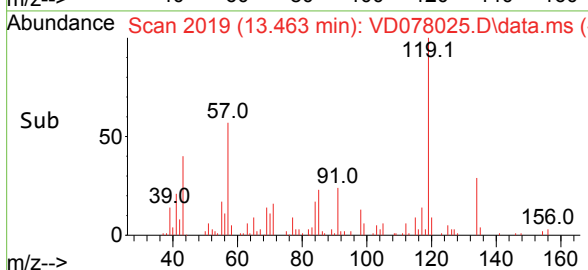
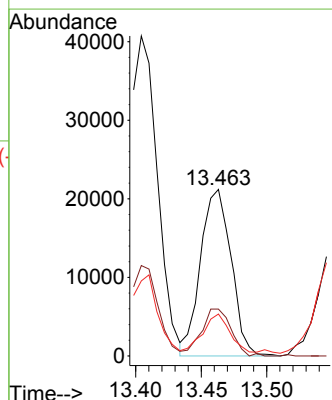
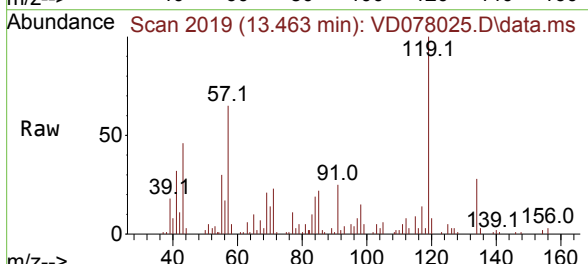
Instrument :
 MSVOA_D
 ClientSampleId :

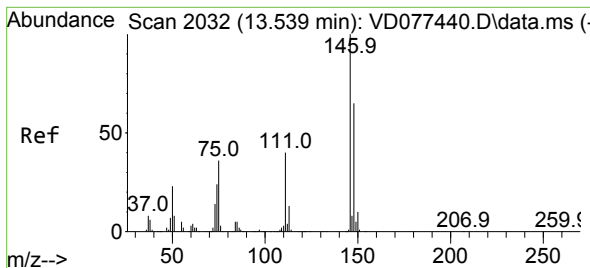
Tgt Ion:105 Resp: 40963
 Ion Ratio Lower Upper
 105 100
 134 25.1 10.9 32.9



#86
 p-Isopropyltoluene
 Concen: 3.587 ug/l
 RT: 13.463 min Scan# 2019
 Delta R.T. 0.000 min
 Lab File: VD078025.D
 Acq: 21 Dec 2023 14:57

Tgt Ion:119 Resp: 34471
 Ion Ratio Lower Upper
 119 100
 134 27.3 14.2 42.6
 91 19.5 10.5 31.5





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.540 min Scan# 2032

Delta R.T. 0.001 min

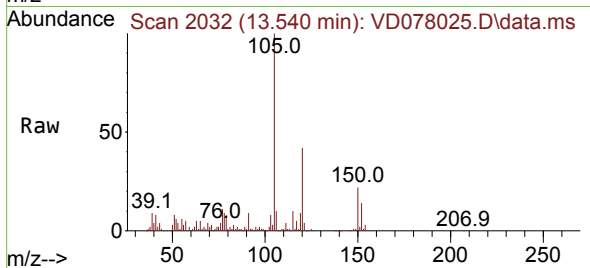
Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

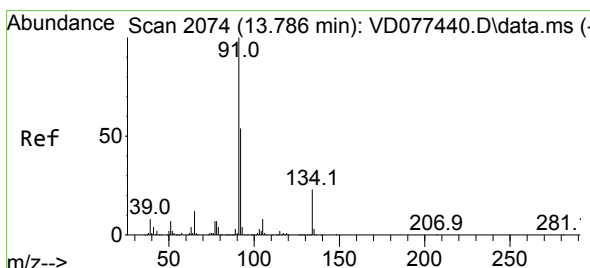
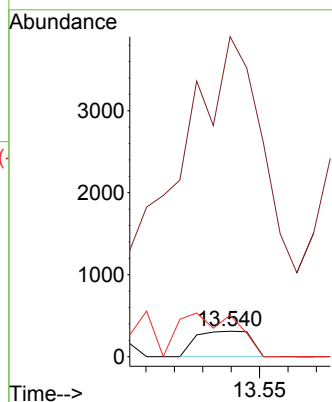
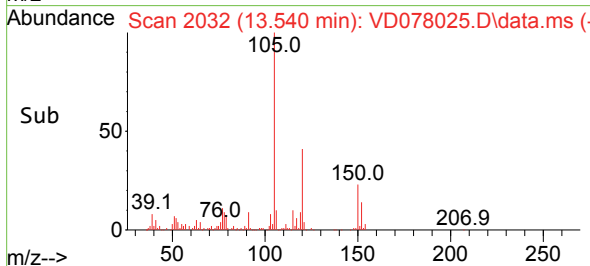
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	146	Resp:	416
Ion	Ratio	Lower	Upper
146	100		
111	1494.5	17.4	52.3#
148	180.8	31.7	95.1#



#89

n-Butylbenzene

Concen: 8.631 ug/l

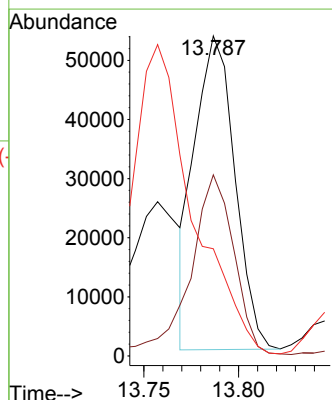
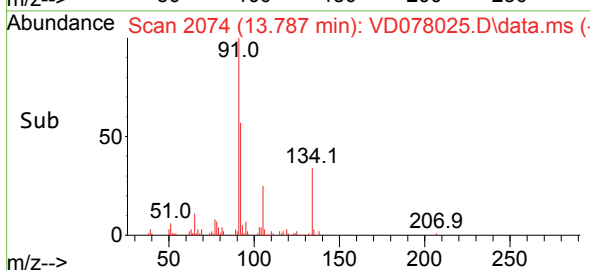
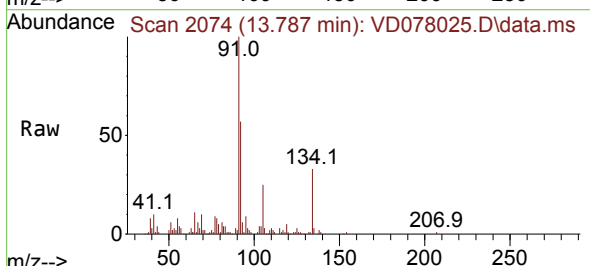
RT: 13.787 min Scan# 2074

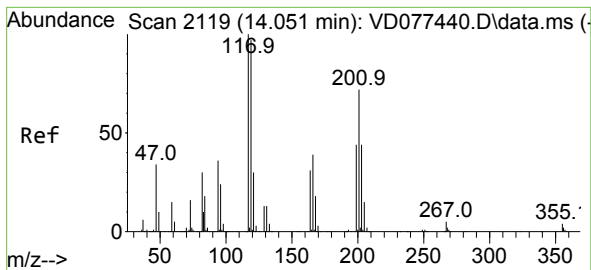
Delta R.T. 0.001 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Tgt Ion:	91	Resp:	78036
Ion	Ratio	Lower	Upper
91	100		
92	62.2	26.5	79.5
134	0.0	13.8	41.3#





#90

Hexachloroethane

Concen: 12.144 ug/l

RT: 14.063 min Scan# 2119

Delta R.T. 0.012 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Instrument :

MSVOA_D

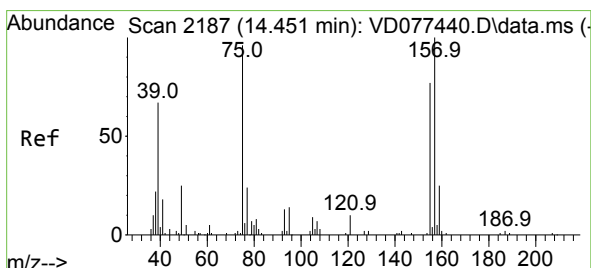
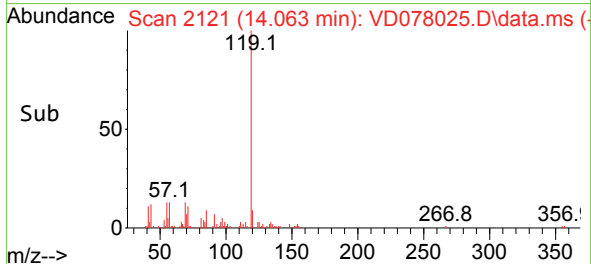
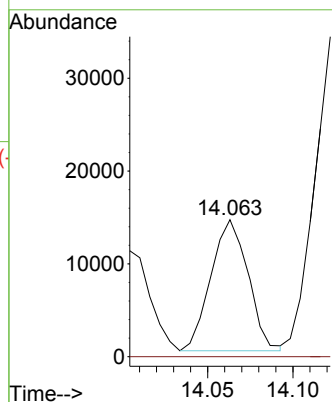
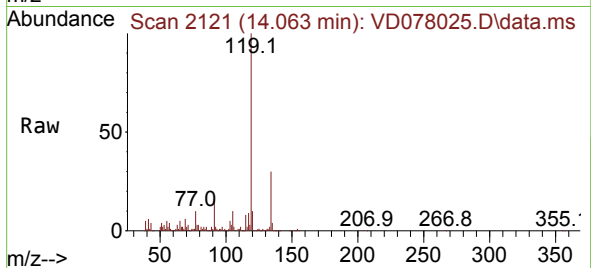
ClientSampleId :

Tgt Ion:117 Resp: 21460

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.535 ug/l

RT: 14.463 min Scan# 2189

Delta R.T. 0.012 min

Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

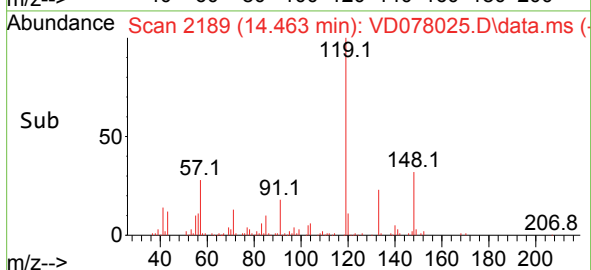
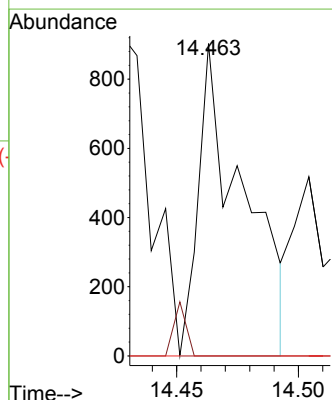
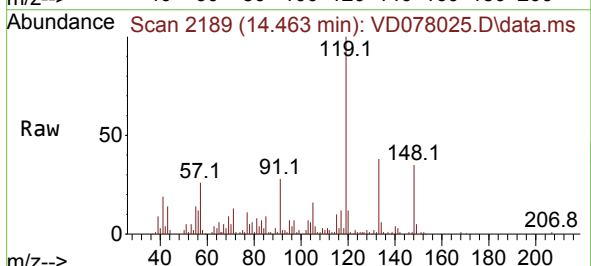
Tgt Ion: 75 Resp: 1158

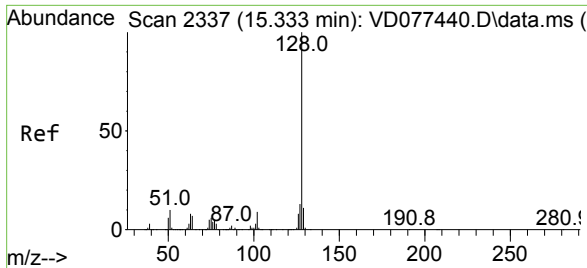
Ion Ratio Lower Upper

75 100

155 4.7 47.9 143.8#

157 0.0 59.9 179.7#





#95

Naphthalene

Concen: 9.241 ug/l

RT: 15.334 min Scan# 21

Delta R.T. 0.001 min

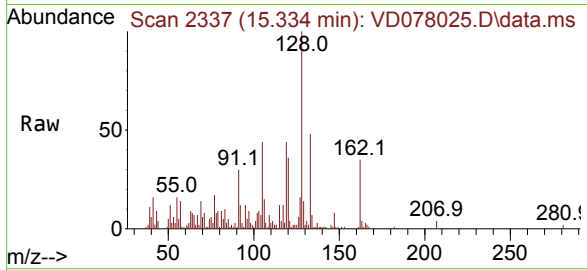
Lab File: VD078025.D

Acq: 21 Dec 2023 14:57

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:128 Resp: 44241

Ion Ratio Lower Upper

128 100

127 16.0 10.5 15.7#

129 14.0 8.7 13.1#

