

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122223\
 Data File : VD078064.D
 Acq On : 22 Dec 2023 15:19
 Operator : RP/MD
 Sample : 05879-02
 Misc : 1.22G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 23 03:37:41 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)

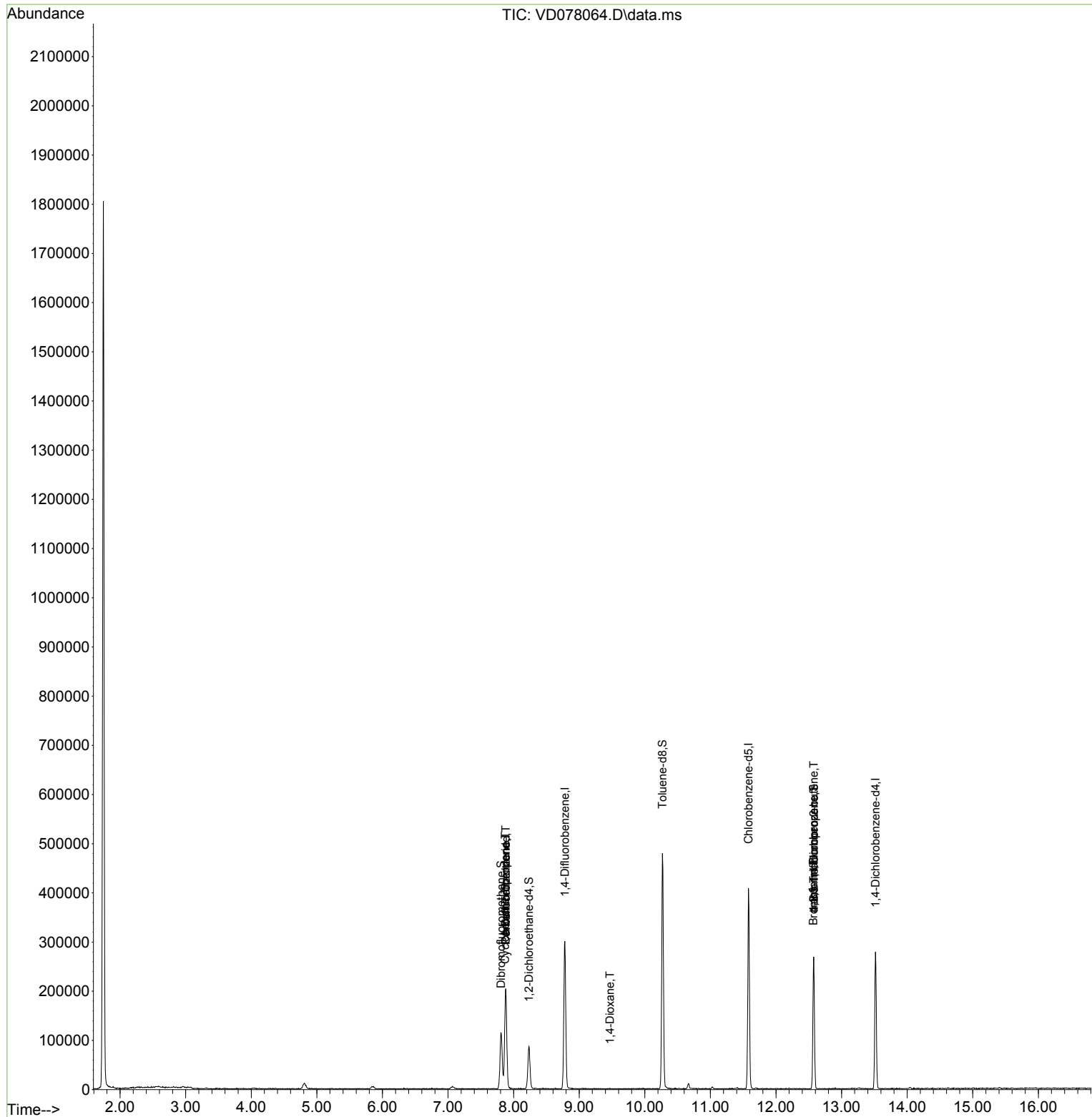
Internal Standards						
1) Pentafluorobenzene	7.881	168	156995	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	272576	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	230541	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	74881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	67547	36.513	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	73.020%
35) Dibromofluoromethane	7.811	113	82099	43.000	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	86.000%
50) Toluene-d8	10.269	98	336882	44.054	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.100%
62) 4-Bromofluorobenzene	12.575	95	76488	33.456	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	66.920%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.069	59	126	Below Cal	#	73
16) Acetone	4.028	43	1774	Below Cal	#	32
20) Methylene Chloride	4.805	84	8619	Below Cal		95
25) 2-Butanone	7.087	43	587	Below Cal	#	37
31) Cyclohexane	7.869	56	3552	1.079	ug/l #	49
36) 1,1-Dichloropropene	7.875	75	12925	4.232	ug/l #	48
38) Carbon Tetrachloride	7.881	117	15344	5.040	ug/l #	16
49) 1,4-Dioxane	9.469	88	56	5.058	ug/l #	1
71) Bromoform	12.569	173	1086	1.084	ug/l #	28
76) 1,2,3-Trichloropropane	12.575	75	42479	65.318	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	42479	132.338	ug/l #	17
88) 1,4-Dichlorobenzene	13.528	146	195	Below Cal	#	40
92) 1,2-Dibromo-3-Chloropr...	14.540	75	58	Below Cal	#	1

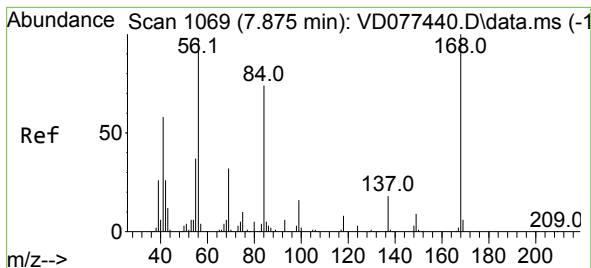
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

Instrument :

MSVOA_D

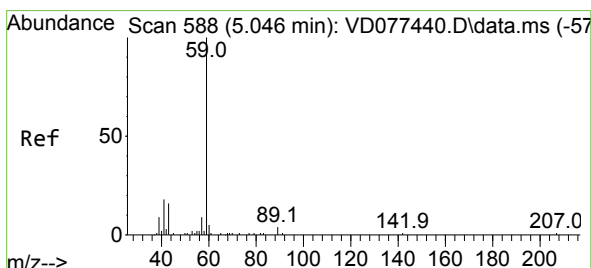
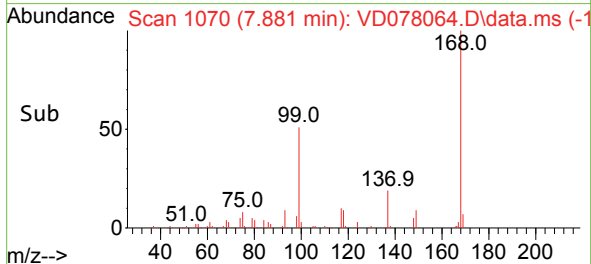
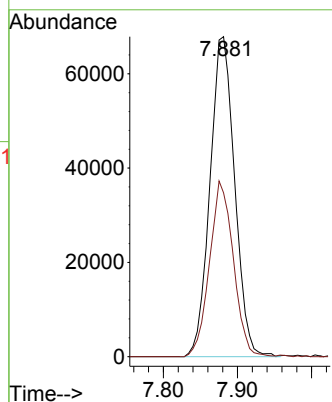
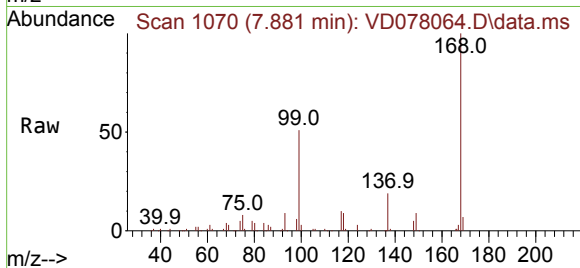
ClientSampleId :

Tgt Ion:168 Resp: 156995

Ion Ratio Lower Upper

168 100

99 51.2 36.7 55.1



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.069 min Scan# 592

Delta R.T. 0.023 min

Lab File: VD078064.D

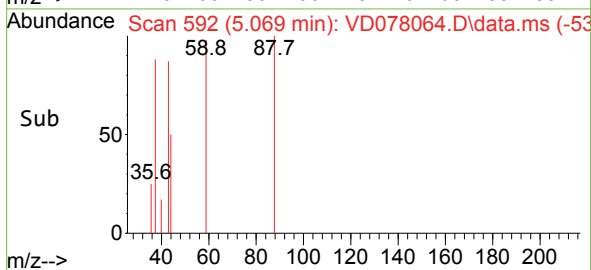
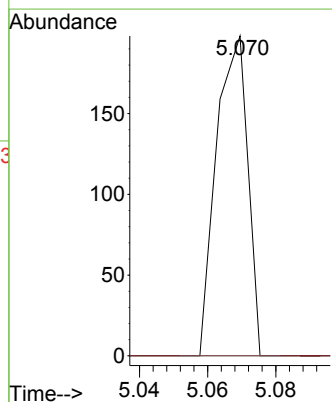
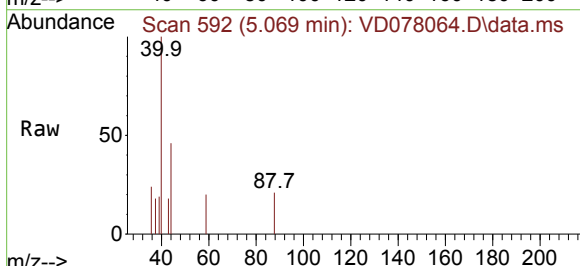
Acq: 22 Dec 2023 15:19

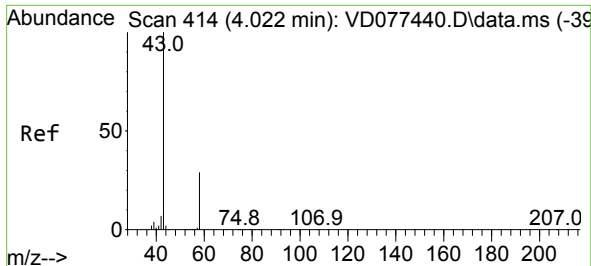
Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

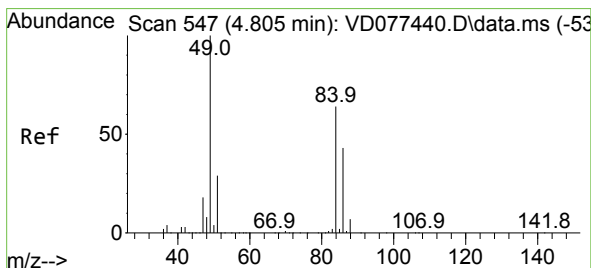
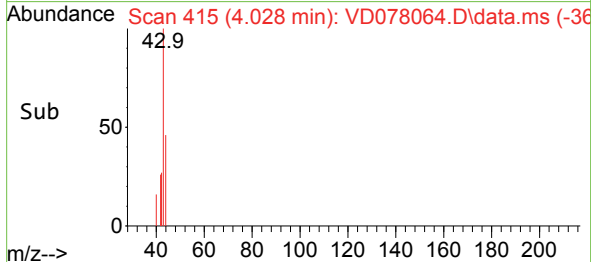
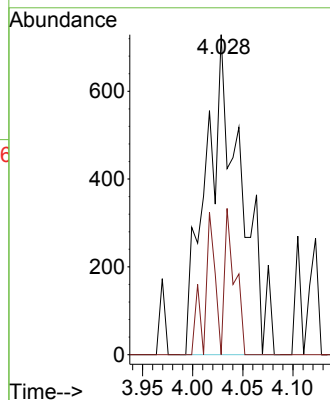
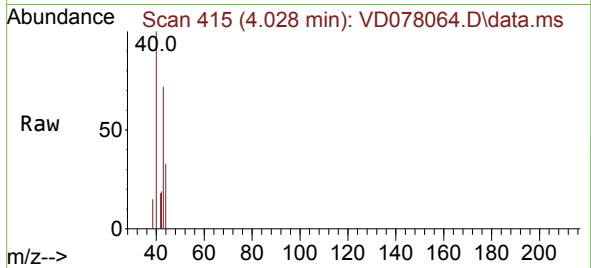




#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 414
Delta R.T. 0.006 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

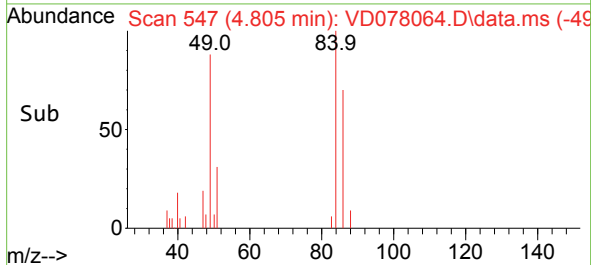
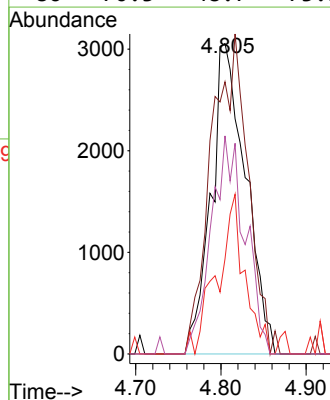
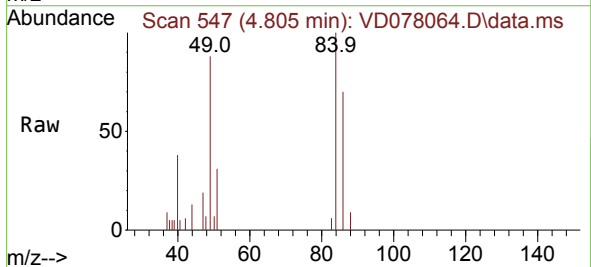
Instrument :
MSVOA_D
ClientSampleId :

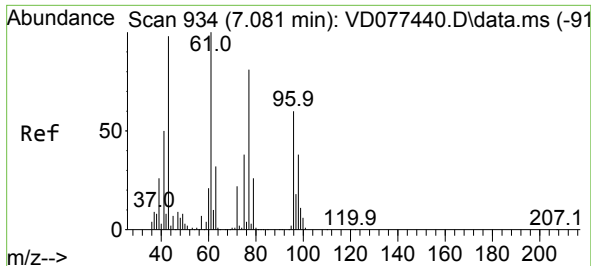
Tgt Ion: 43 Resp: 1774
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.805 min Scan# 547
Delta R.T. -0.000 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

Tgt Ion: 84 Resp: 8619
Ion Ratio Lower Upper
84 100
49 87.7 71.4 107.2
51 30.6 24.5 36.7
86 70.3 48.7 73.1

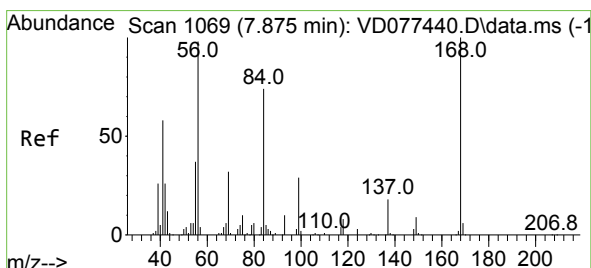
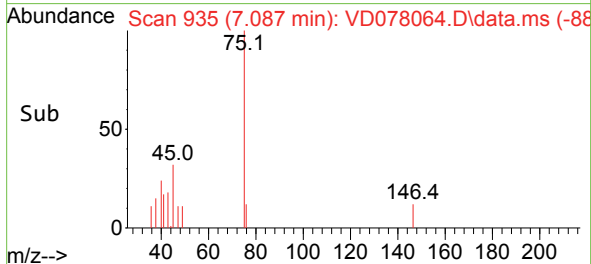
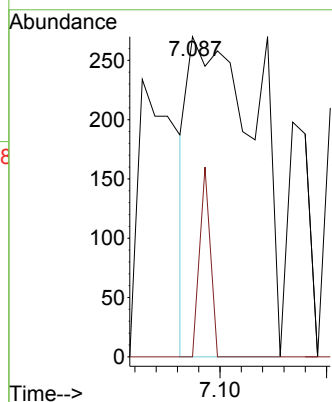
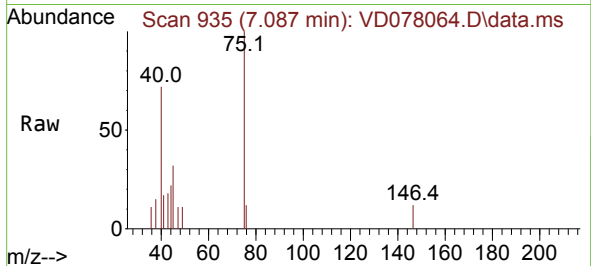




#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

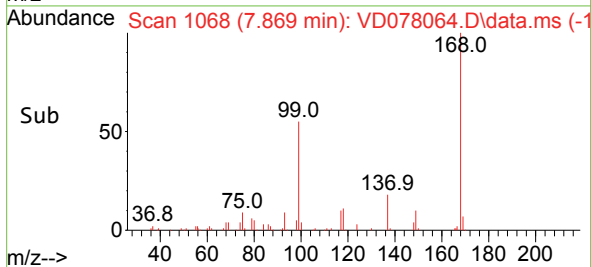
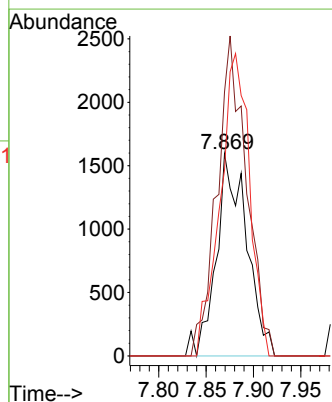
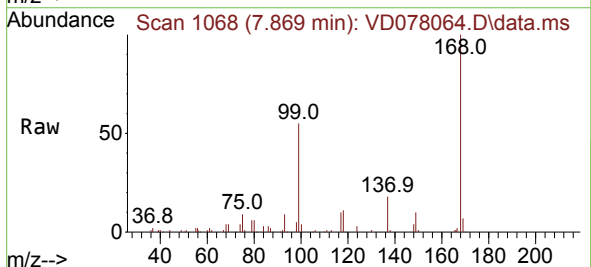
Instrument :
MSVOA_D
ClientSampleId :

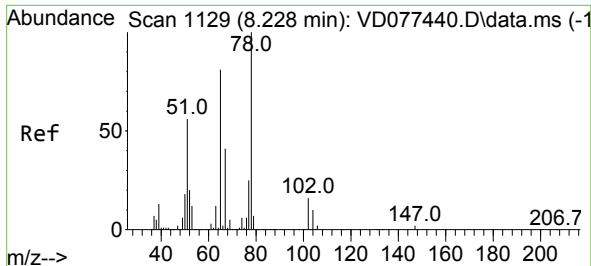
Tgt Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#31
Cyclohexane
Concen: 1.079 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

Tgt Ion: 56 Resp: 3552
Ion Ratio Lower Upper
56 100
69 130.5 28.6 43.0#
84 92.0 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 36.513 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

Instrument :

MSVOA_D

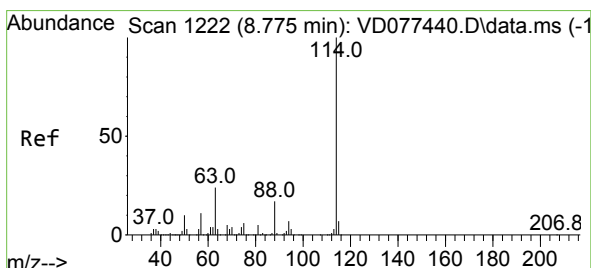
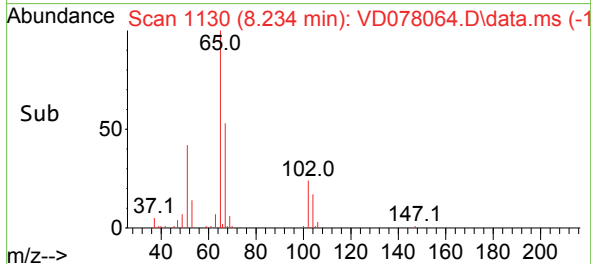
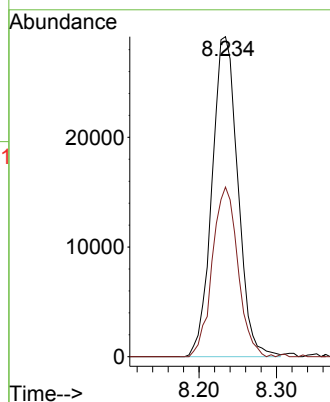
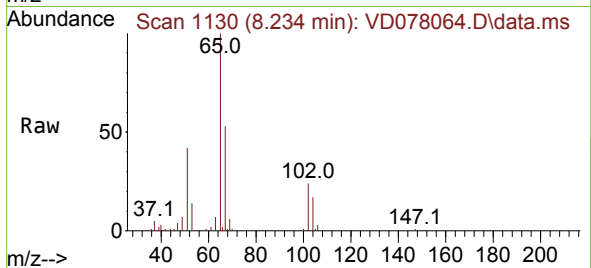
ClientSampleId :

Tgt Ion: 65 Resp: 67547

Ion Ratio Lower Upper

65 100

67 52.5 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

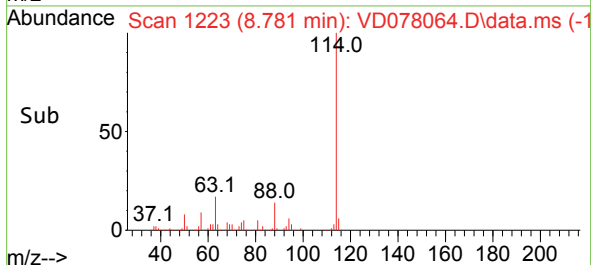
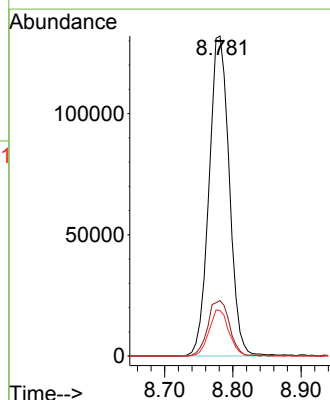
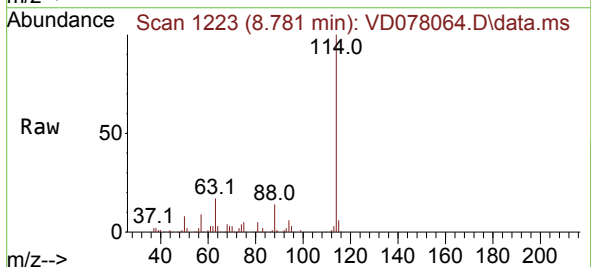
Tgt Ion: 114 Resp: 272576

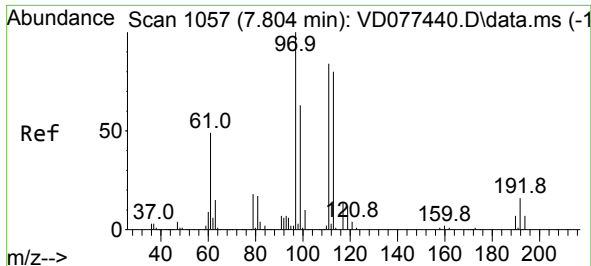
Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.4

88 14.2 0.0 26.2





#35

Dibromofluoromethane

Concen: 43.000 ug/l

RT: 7.811 min Scan# 1058

Delta R.T. 0.007 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

Instrument :

MSVOA_D

ClientSampleId :

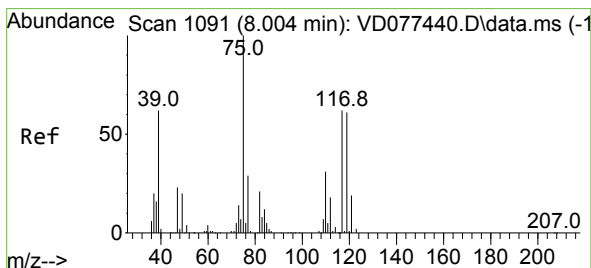
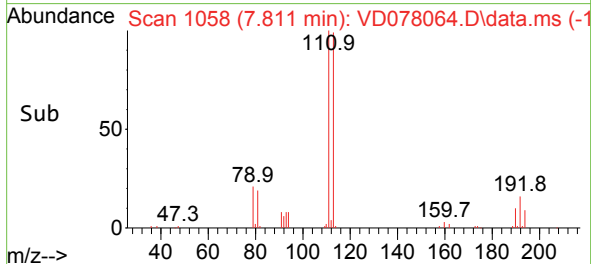
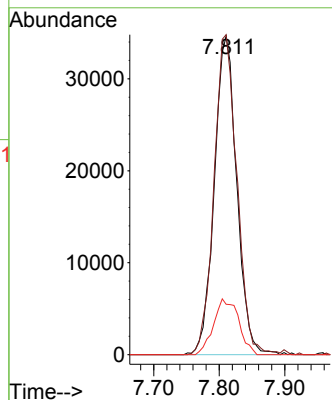
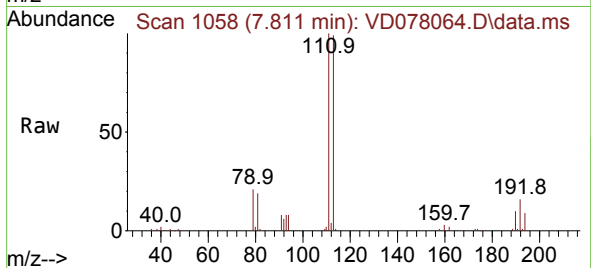
Tgt Ion:113 Resp: 82099

Ion Ratio Lower Upper

113 100

111 102.7 84.7 127.1

192 19.6 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.232 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

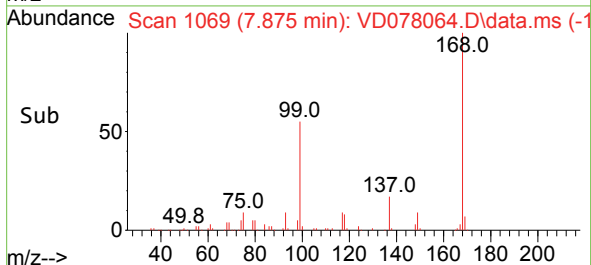
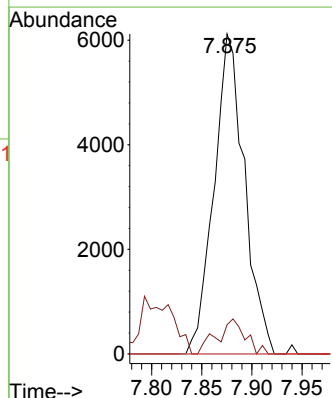
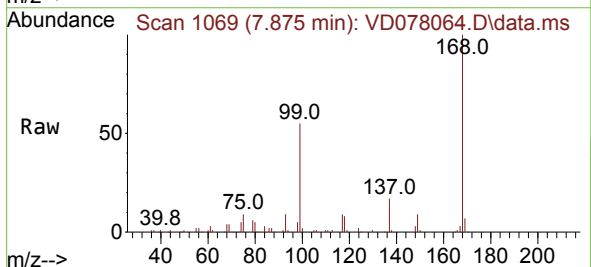
Tgt Ion: 75 Resp: 12925

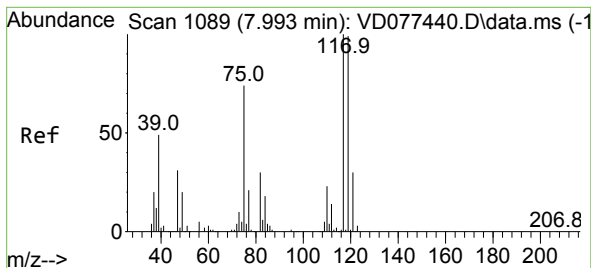
Ion Ratio Lower Upper

75 100

110 10.1 19.9 59.6#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.040 ug/l

RT: 7.881 min Scan# 1

Delta R.T. -0.112 min

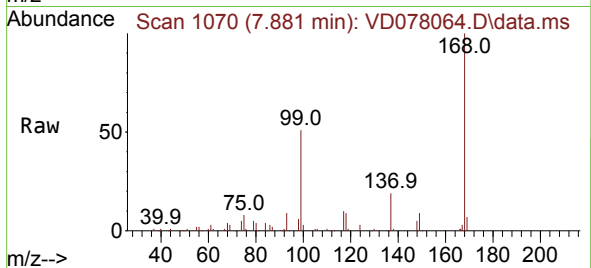
Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

Instrument :

MSVOA_D

ClientSampleId :



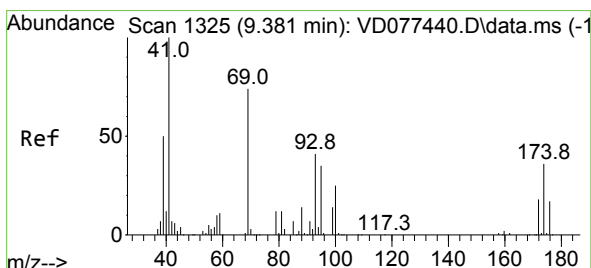
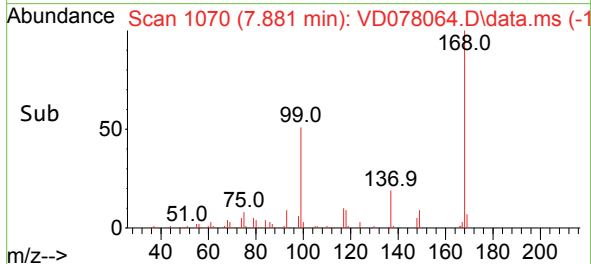
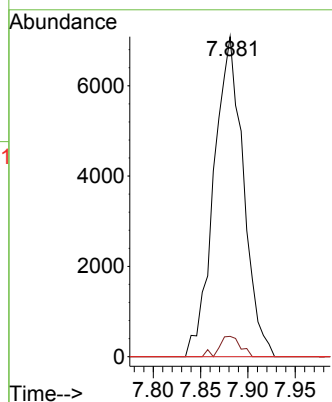
Tgt Ion:117 Resp: 15344

Ion Ratio Lower Upper

117 100

119 6.3 78.0 117.0#

121 0.0 24.2 36.2#



#49

1,4-Dioxane

Concen: 5.058 ug/l

RT: 9.469 min Scan# 1340

Delta R.T. 0.088 min

Lab File: VD078064.D

Acq: 22 Dec 2023 15:19

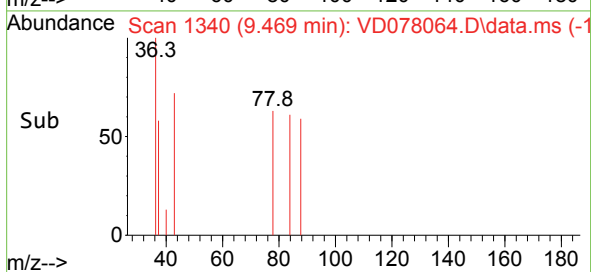
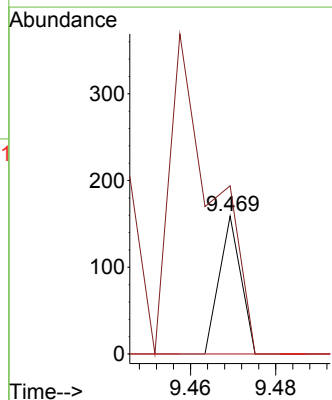
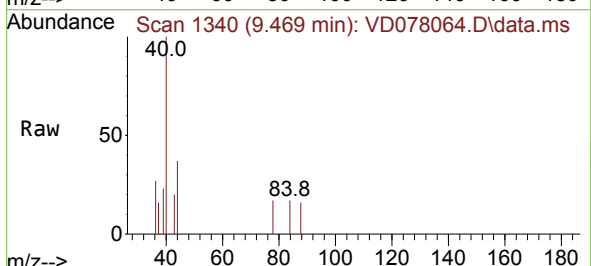
Tgt Ion: 88 Resp: 56

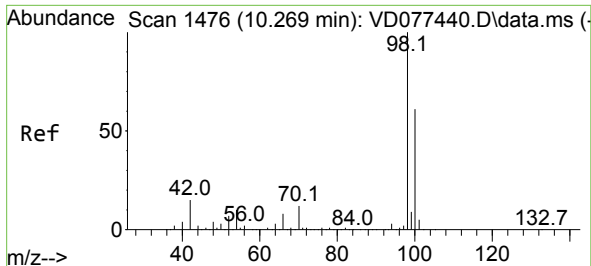
Ion Ratio Lower Upper

88 100

43 591.1 19.0 28.6#

58 0.0 43.5 65.3#

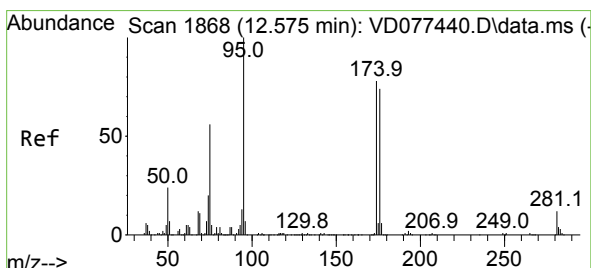
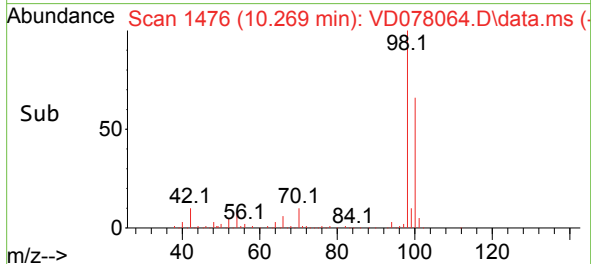
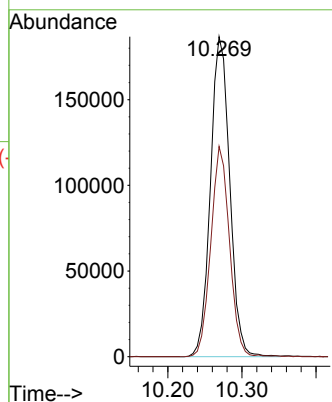
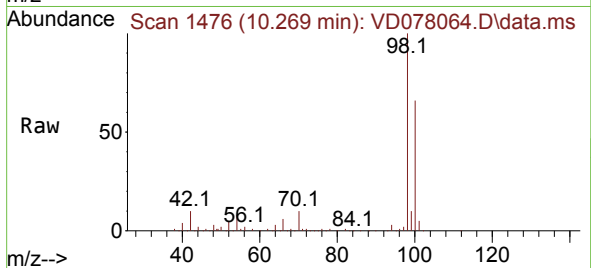




#50
Toluene-d8
Concen: 44.054 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

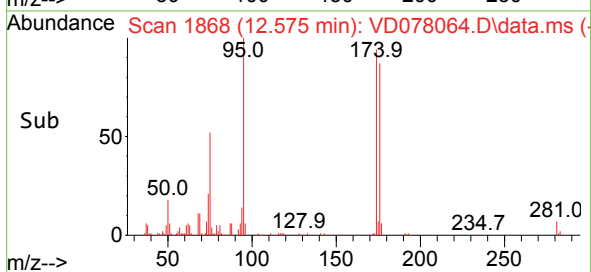
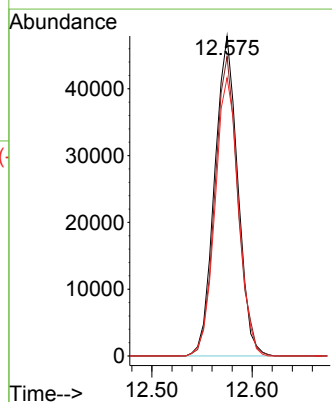
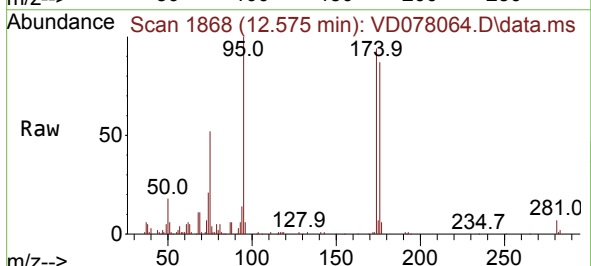
Instrument :
MSVOA_D
ClientSampleId :

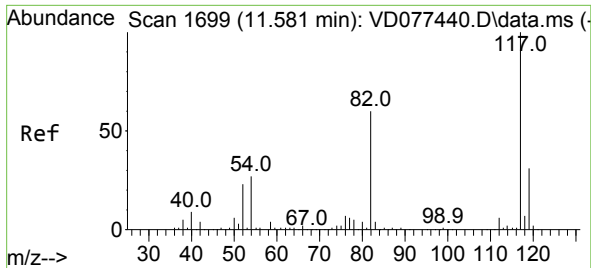
Tgt Ion: 98 Resp: 336882
Ion Ratio Lower Upper
98 100
100 63.9 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 33.456 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

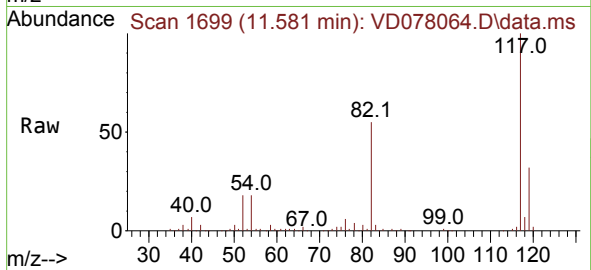
Tgt Ion: 95 Resp: 76488
Ion Ratio Lower Upper
95 100
174 92.5 0.0 201.8
176 88.5 0.0 191.8



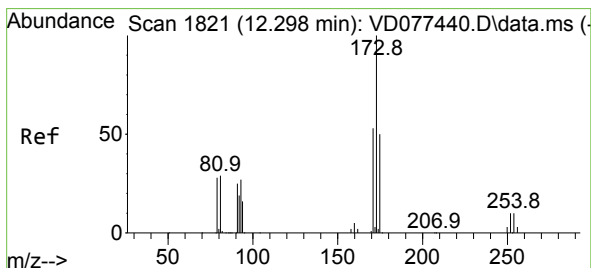
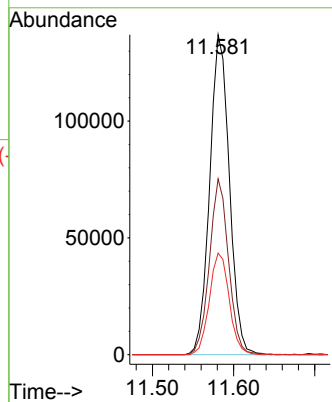
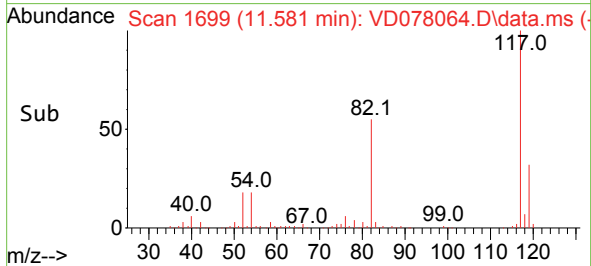


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

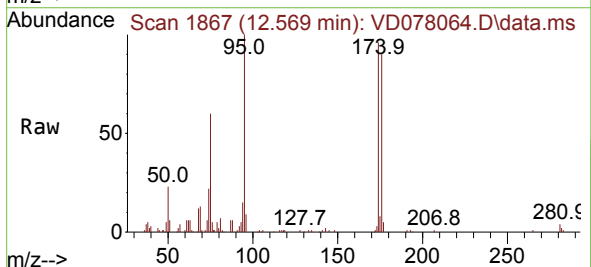
Instrument :
MSVOA_D
ClientSampleId :



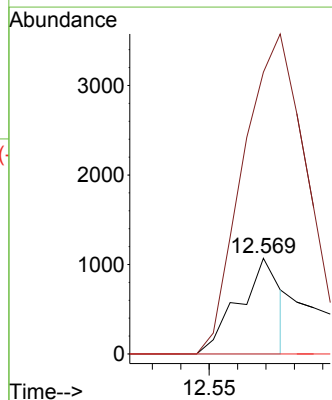
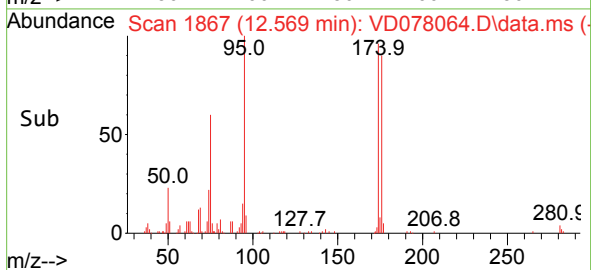
Tgt Ion:117 Resp: 230541
Ion Ratio Lower Upper
117 100
82 55.0 38.3 57.5
119 31.7 25.0 37.4

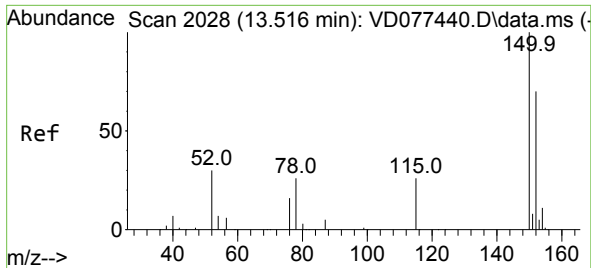


#71
Bromoform
Concen: 1.084 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.271 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19



Tgt Ion:173 Resp: 1086
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.0 0.0

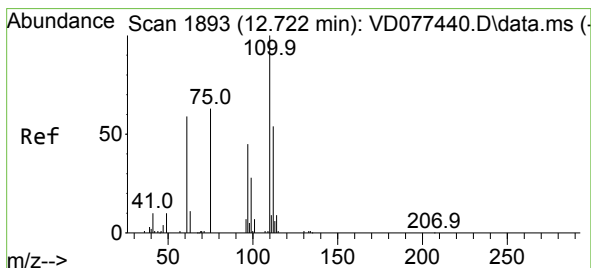
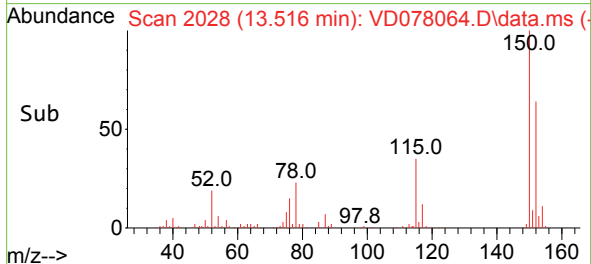
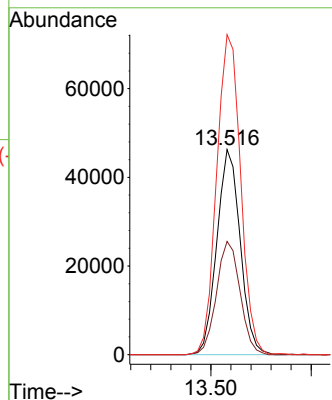
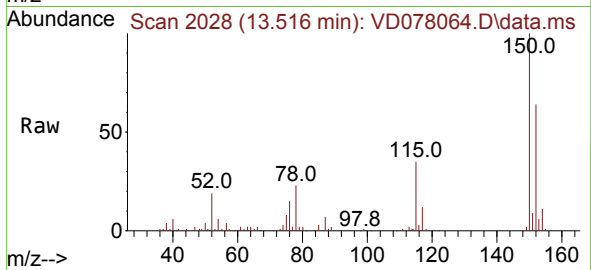




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2028
 Delta R.T. 0.000 min
 Lab File: VD078064.D
 Acq: 22 Dec 2023 15:19

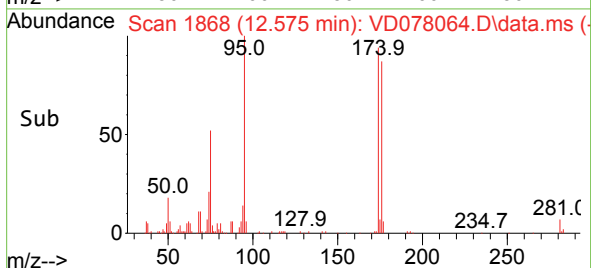
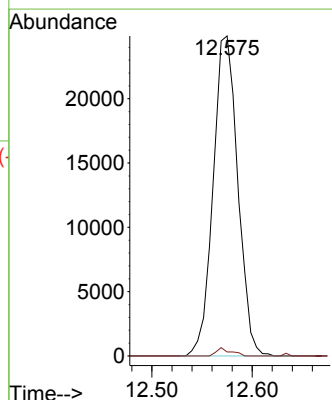
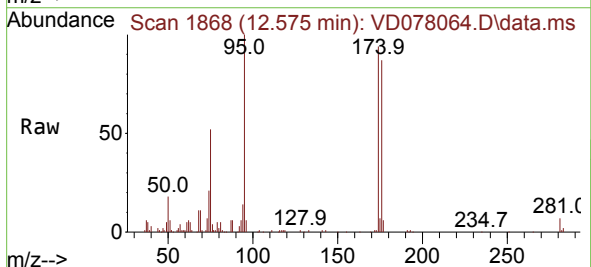
Instrument :
 MSVOA_D
 ClientSampleId :

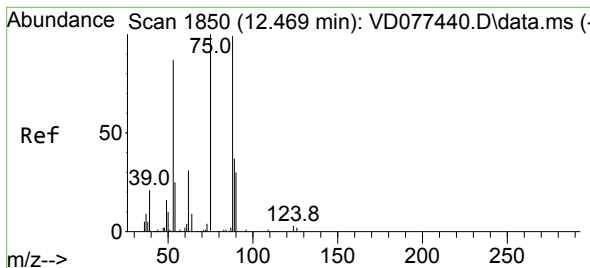
Tgt Ion:152 Resp: 74881
 Ion Ratio Lower Upper
 152 100
 115 55.8 27.1 81.3
 150 160.1 0.0 353.6



#76
 1,2,3-Trichloropropane
 Concen: 65.318 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.147 min
 Lab File: VD078064.D
 Acq: 22 Dec 2023 15:19

Tgt Ion: 75 Resp: 42479
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#

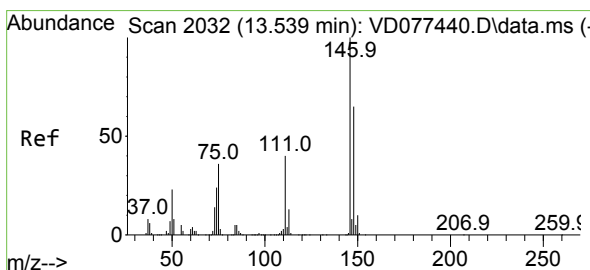
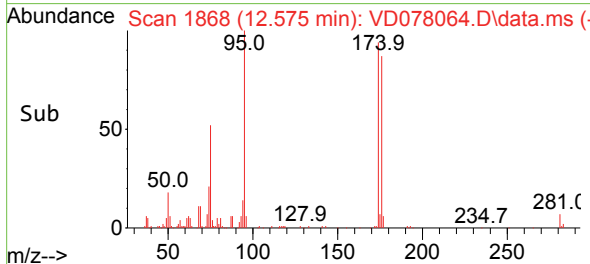
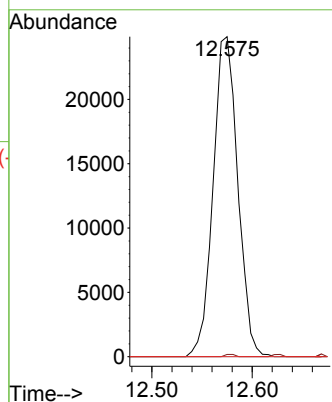
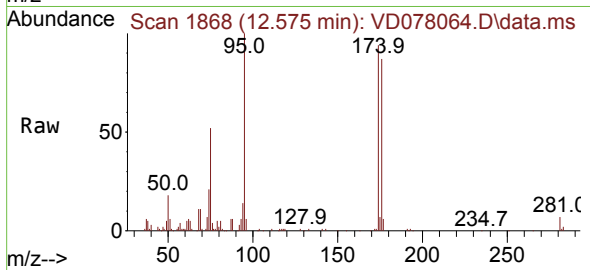




#81
trans-1,4-Dichloro-2-butene
Concen: 132.338 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 42479
Ion Ratio Lower Upper
75 100
53 0.3 63.0 94.4#
89 0.0 37.9 56.9#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.528 min Scan# 2030
Delta R.T. -0.011 min
Lab File: VD078064.D
Acq: 22 Dec 2023 15:19

Tgt Ion:146 Resp: 195
Ion Ratio Lower Upper
146 100
111 0.0 17.4 52.3#
148 109.7 31.7 95.1#

