

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121223\
 Data File : VD077842.D
 Acq On : 12 Dec 2023 15:17
 Operator : JC/SY
 Sample : 05740-01RE
 Misc : 5.08G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 16:52:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 08 13:33:18 2023
 Response via : Initial Calibration

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

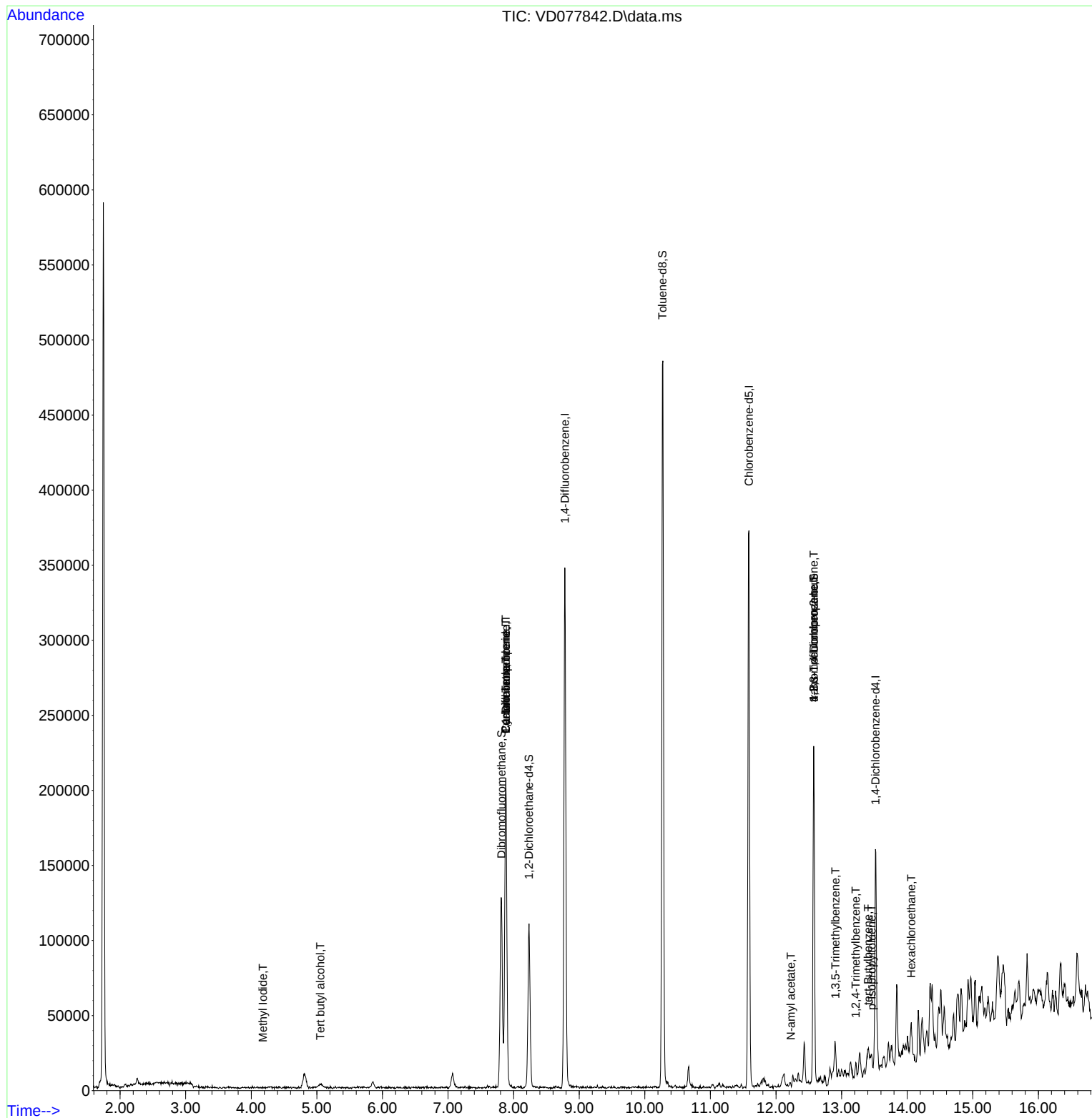
Internal Standards						
1) Pentafluorobenzene	7.881	168	157821	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	301391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.587	117	221911	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	40182	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	81317	43.726	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	87.460%		
35) Dibromofluoromethane	7.816	113	91231	43.214	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	86.420%		
50) Toluene-d8	10.269	98	346316	40.958	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	81.920%		
62) 4-Bromofluorobenzene	12.575	95	64151	25.377	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	50.760%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.175	142	60	6.772	ug/l #	46
11) Tert butyl alcohol	5.052	59	5687	54.697	ug/l #	82
16) Acetone	4.028	43	548	Below Cal	#	32
20) Methylene Chloride	4.805	84	7315	Below Cal	#	88
25) 2-Butanone	7.087	43	167	Below Cal	#	37
31) Cyclohexane	7.881	56	3956	1.196	ug/l #	48
36) 1,1-Dichloropropene	7.881	75	13010	3.853	ug/l #	45
38) Carbon Tetrachloride	7.881	117	16269	4.833	ug/l #	14
65) Chlorobenzene	11.610	112	244	Below Cal	#	43
74) N-amyl acetate	12.228	43	813	1.358	ug/l #	47
76) 1,2,3-Trichloropropane	12.575	75	34912	100.039	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.904	105	4794	1.887	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.575	75	34912	202.687	ug/l #	17
83) tert-Butylbenzene	13.404	119	2353	1.097	ug/l	89
84) 1,2,4-Trimethylbenzene	13.216	105	3934	1.549	ug/l	95
86) p-Isopropyltoluene	13.457	119	4437	1.563	ug/l	93
88) 1,4-Dichlorobenzene	13.545	146	156	Below Cal	#	1
90) Hexachloroethane	14.063	117	840	1.609	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.492	75	54	Below Cal	#	1

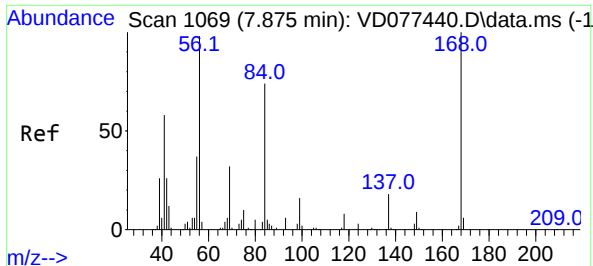
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 08 13:33:18 2023
Response via : Initial Calibration

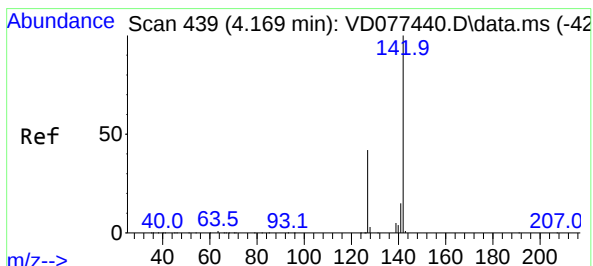
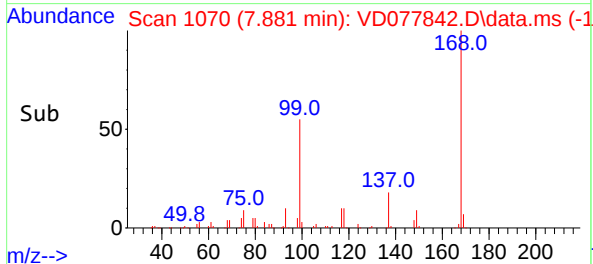
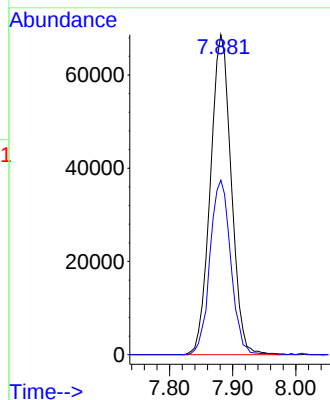
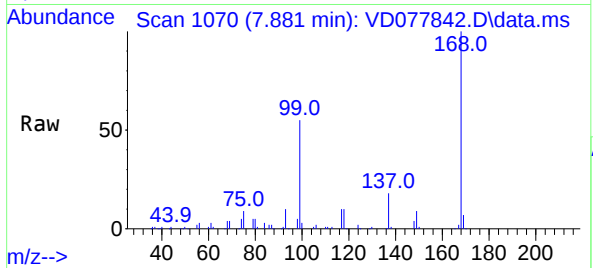




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

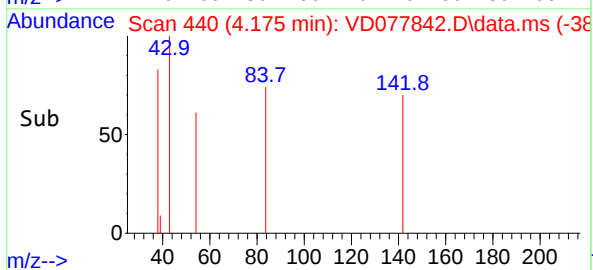
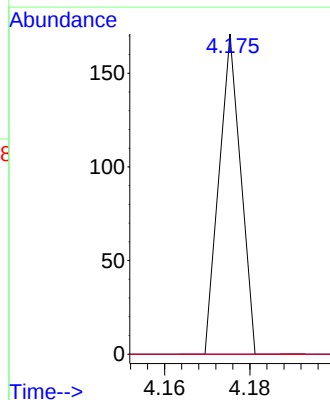
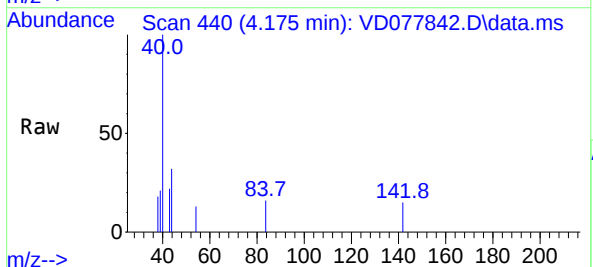
Instrument :
MSVOA_D
ClientSampleId :

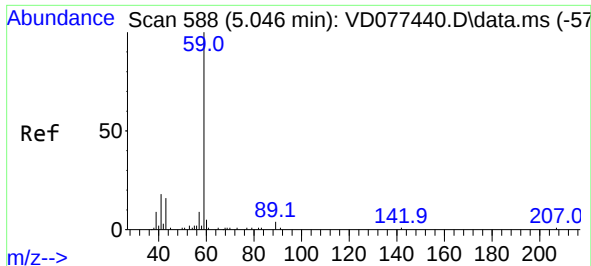
Tgt Ion:168 Resp: 157821
Ion Ratio Lower Upper
168 100
99 54.5 36.7 55.1



#10
Methyl Iodide
Concen: 6.772 ug/l
RT: 4.175 min Scan# 440
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

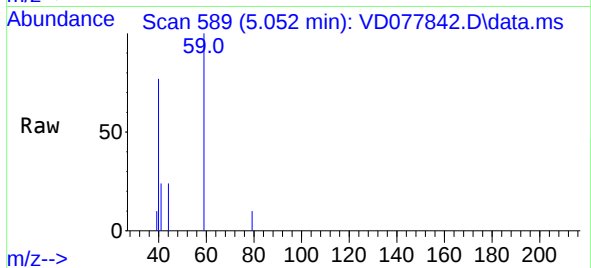
Tgt Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 29.4 44.0#
141 0.0 11.1 16.7#



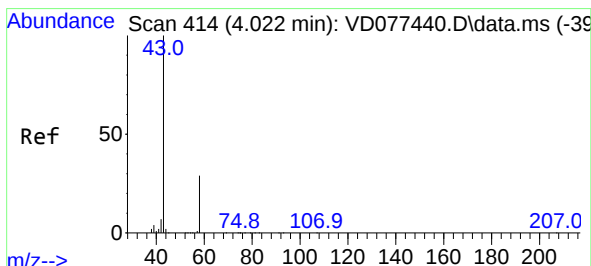
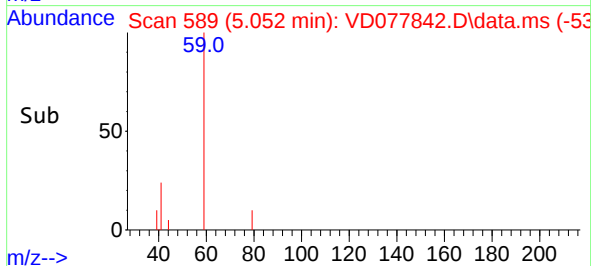
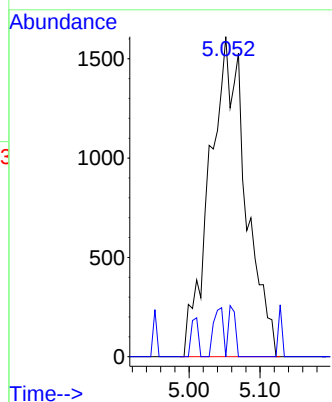


#11
Tert butyl alcohol
Concen: 54.697 ug/l
RT: 5.052 min Scan# 51
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Instrument :
MSVOA_D
ClientSampleId :

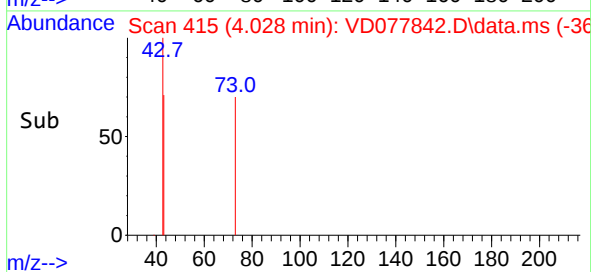
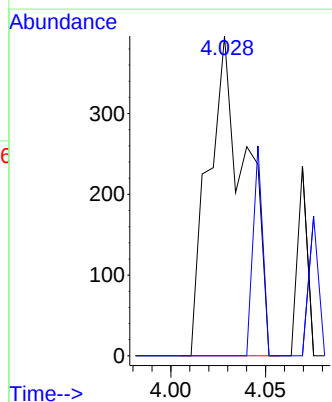
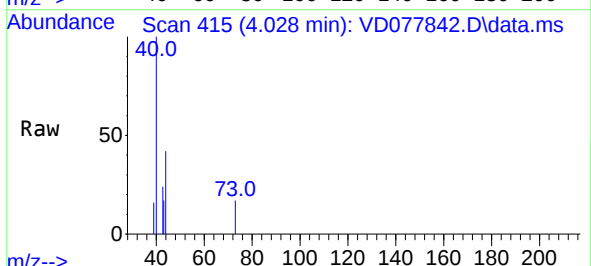


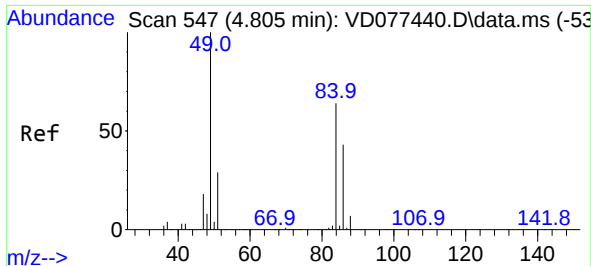
Tgt Ion: 59 Resp: 5687
Ion Ratio Lower Upper
59 100
57 3.0 7.8 11.8#



#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

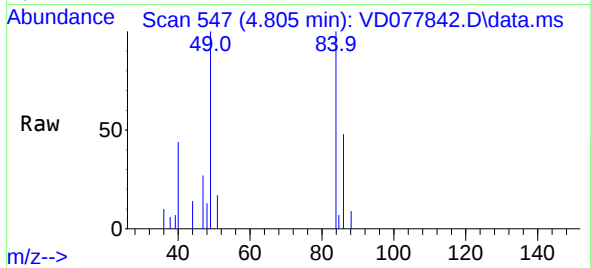
Tgt Ion: 43 Resp: 548
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#





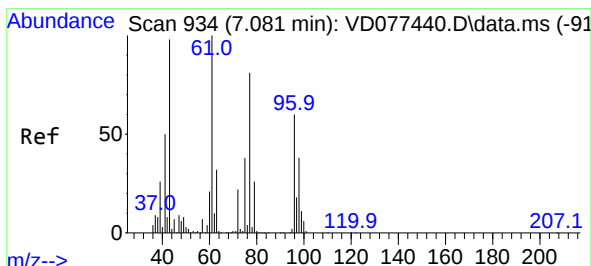
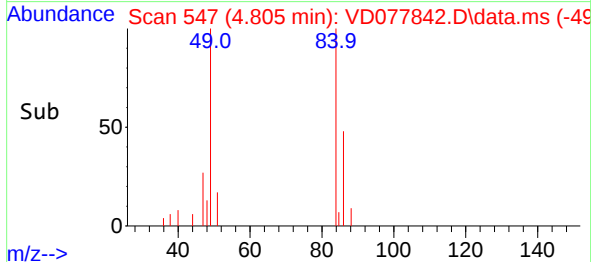
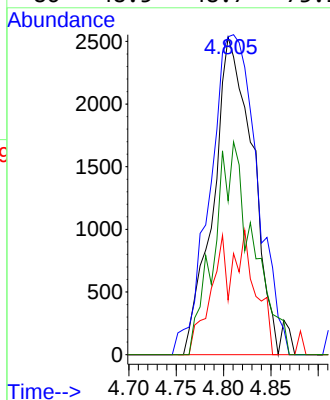
#20
Methylene Chloride
Concen: Below Cal
RT: 4.805 min Scan# 54
Delta R.T. -0.000 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 7315

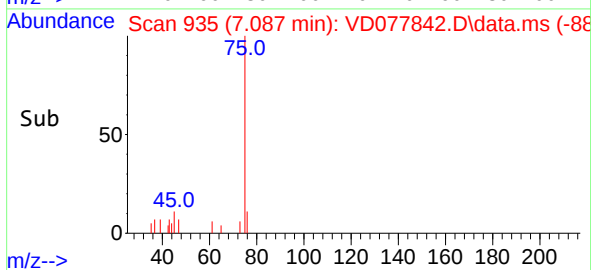
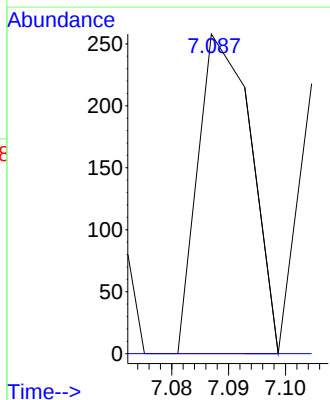
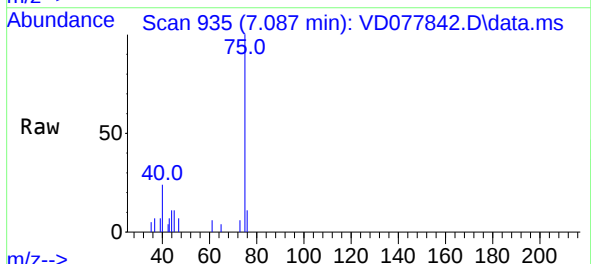
Ion	Ratio	Lower	Upper
84	100		
49	93.4	71.4	107.2
51	17.2	24.5	36.7#
86	48.5	48.7	73.1#

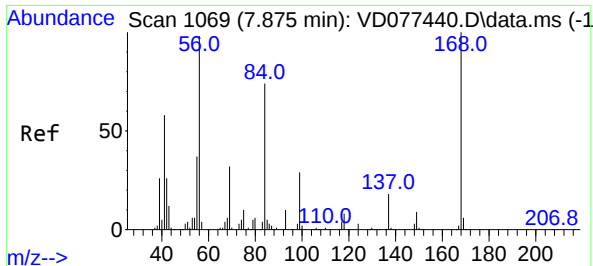


#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 935
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Tgt Ion: 43 Resp: 167

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.7	46.1#





#31

Cyclohexane

Concen: 1.196 ug/l

RT: 7.881 min Scan# 110

Delta R.T. 0.006 min

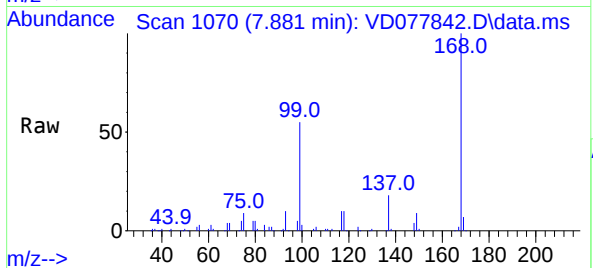
Lab File: VD077842.D

Acq: 12 Dec 2023 15:17

Instrument :

MSVOA_D

ClientSampleId :



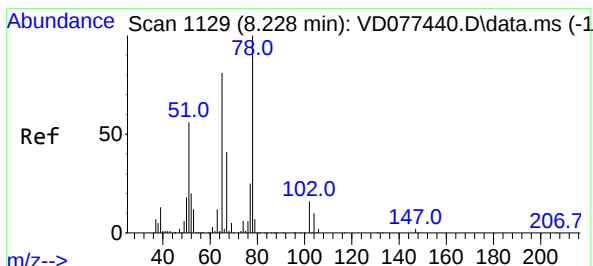
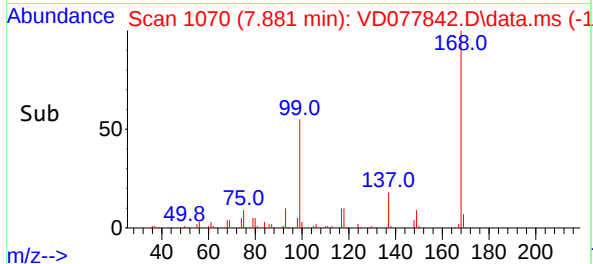
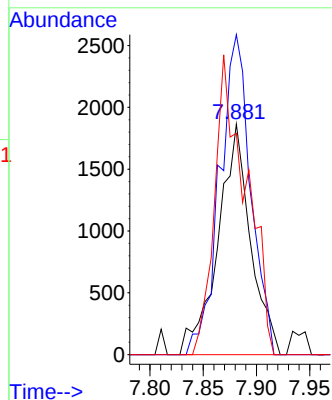
Tgt Ion: 56 Resp: 3956

Ion Ratio Lower Upper

56 100

69 138.8 28.6 43.0#

84 96.0 84.8 127.2



#33

1,2-Dichloroethane-d4

Concen: 43.726 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD077842.D

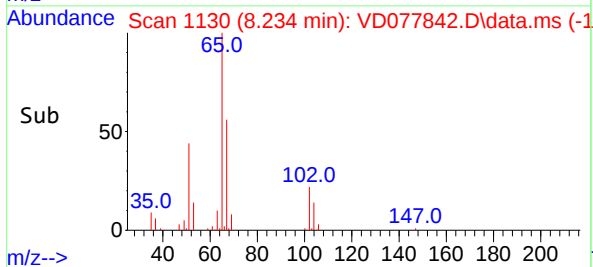
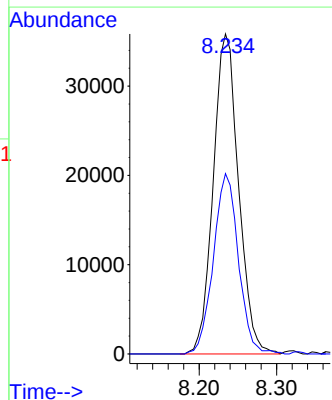
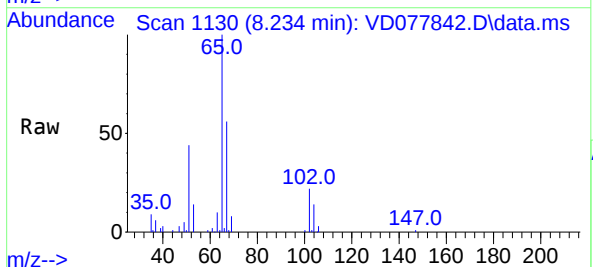
Acq: 12 Dec 2023 15:17

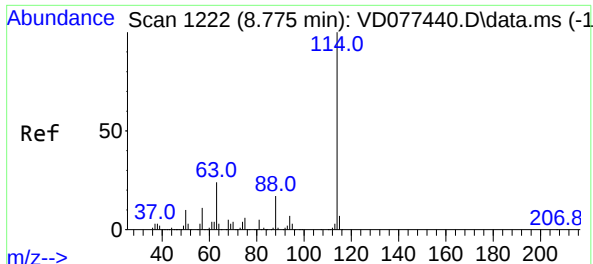
Tgt Ion: 65 Resp: 81317

Ion Ratio Lower Upper

65 100

67 55.7 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD077842.D

Acq: 12 Dec 2023 15:17

Instrument :

MSVOA_D

ClientSampleId :

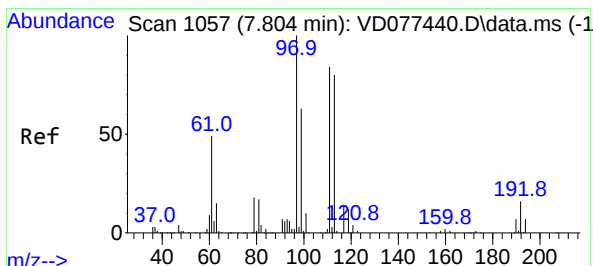
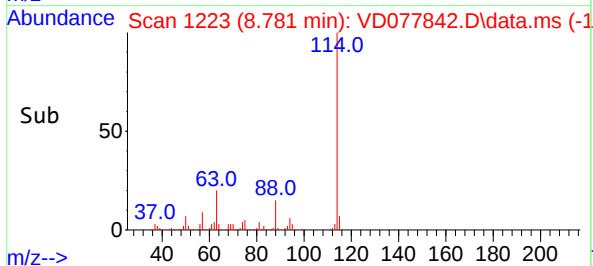
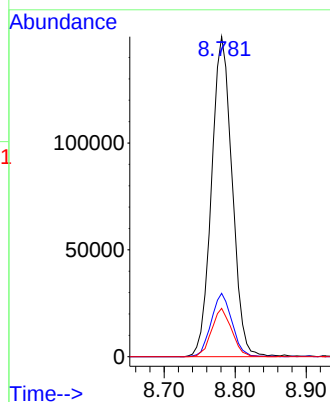
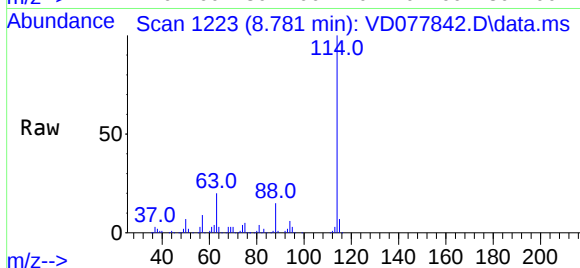
Tgt Ion:114 Resp: 301391

Ion Ratio Lower Upper

114 100

63 19.8 0.0 33.4

88 15.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 43.214 ug/l

RT: 7.816 min Scan# 1059

Delta R.T. 0.012 min

Lab File: VD077842.D

Acq: 12 Dec 2023 15:17

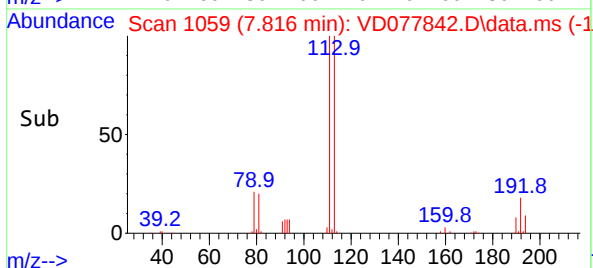
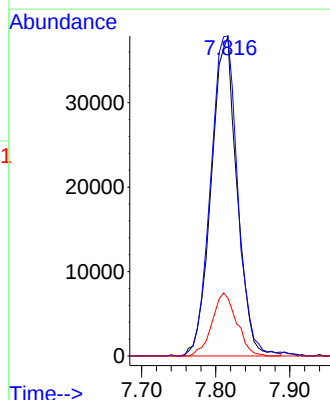
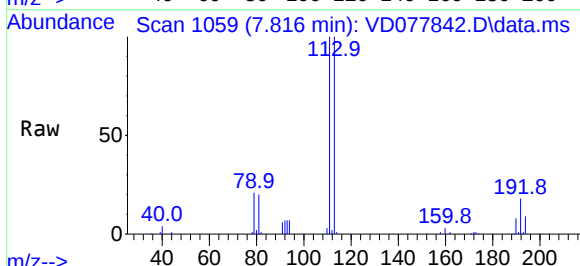
Tgt Ion:113 Resp: 91231

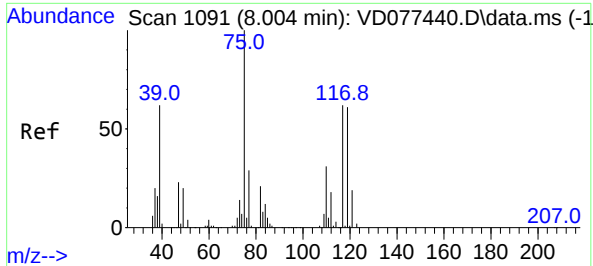
Ion Ratio Lower Upper

113 100

111 105.4 84.7 127.1

192 18.9 16.8 25.2



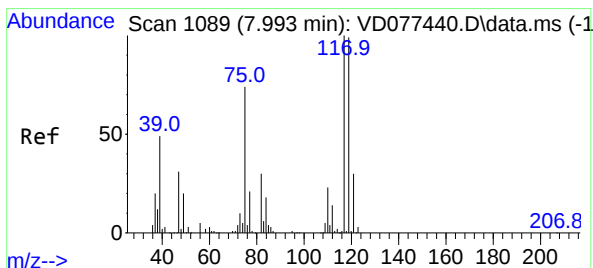
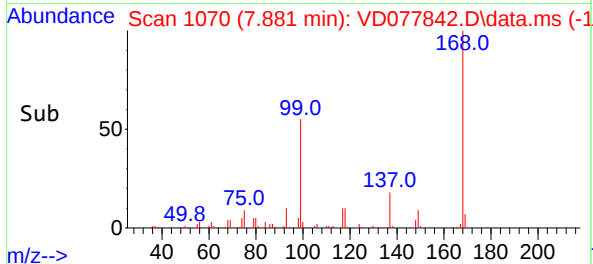
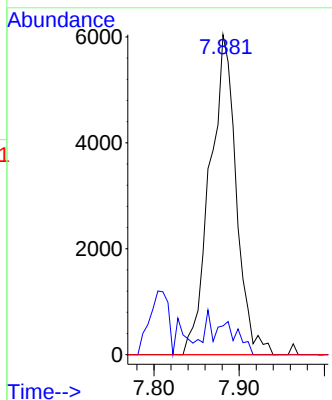
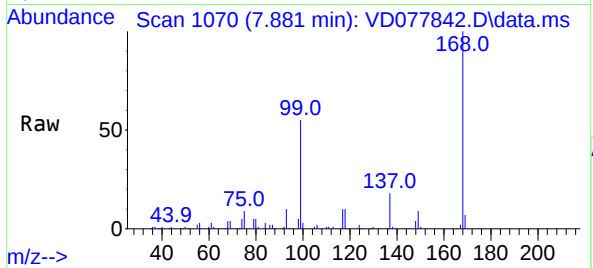


#36
1,1-Dichloropropene
Concen: 3.853 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.123 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 13010

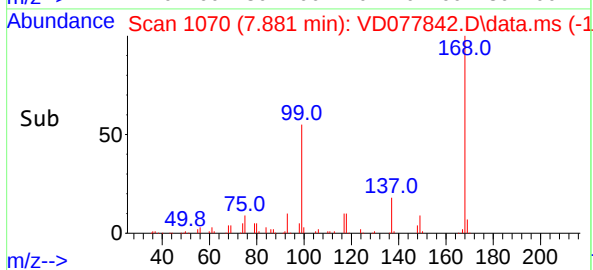
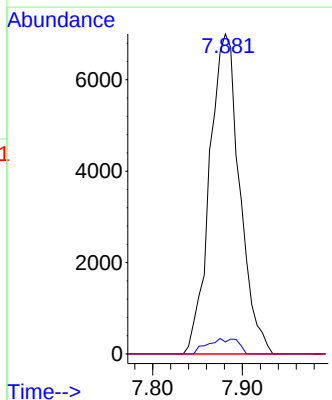
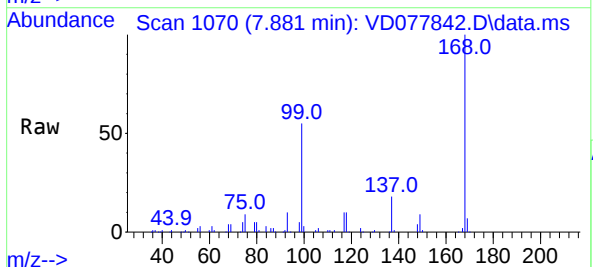
Ion	Ratio	Lower	Upper
75	100		
110	6.5	19.9	59.6#
77	0.0	24.7	37.1#

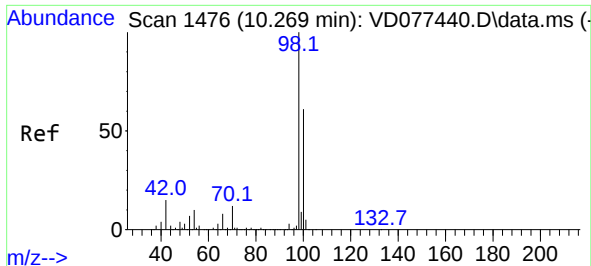


#38
Carbon Tetrachloride
Concen: 4.833 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.112 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Tgt Ion: 117 Resp: 16269

Ion	Ratio	Lower	Upper
117	100		
119	3.7	78.0	117.0#
121	0.0	24.2	36.2#

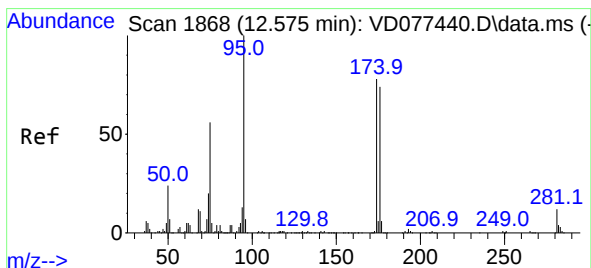
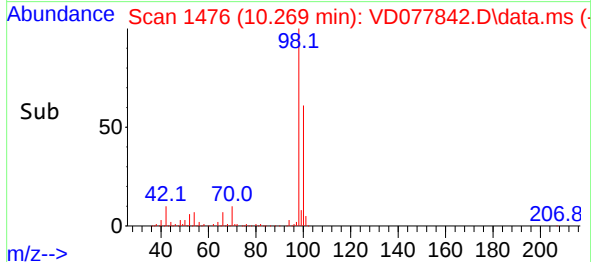
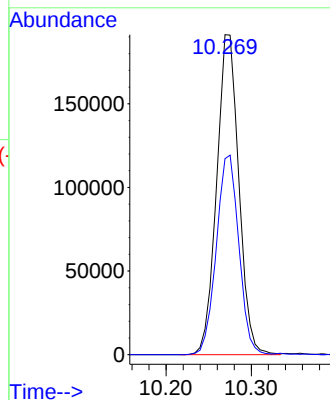
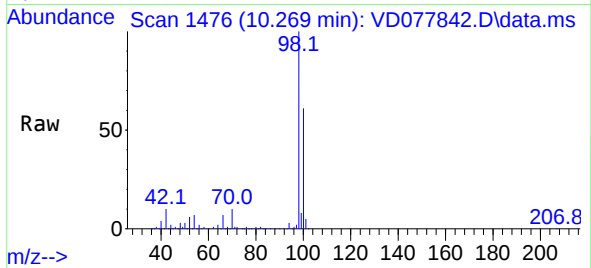




#50
Toluene-d8
Concen: 40.958 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

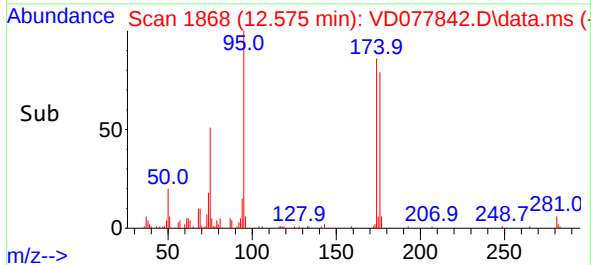
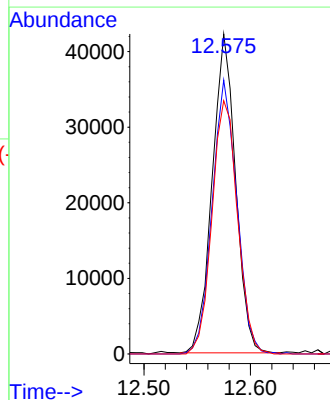
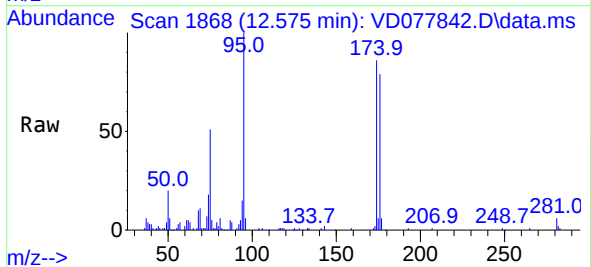
Instrument :
MSVOA_D
ClientSampleId :

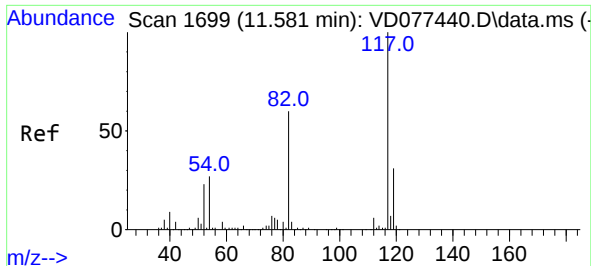
Tgt Ion: 98 Resp: 346316
Ion Ratio Lower Upper
98 100
100 63.1 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 25.377 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Tgt Ion: 95 Resp: 64151
Ion Ratio Lower Upper
95 100
174 90.7 0.0 201.8
176 86.8 0.0 191.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.587 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD077842.D

Acq: 12 Dec 2023 15:17

Instrument :

MSVOA_D

ClientSampleId :

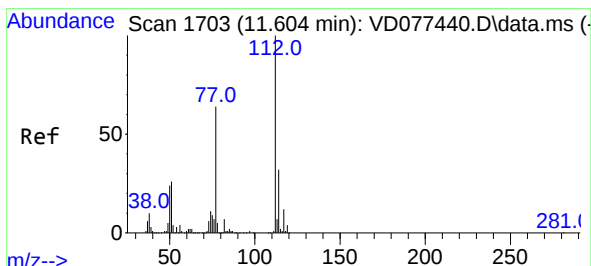
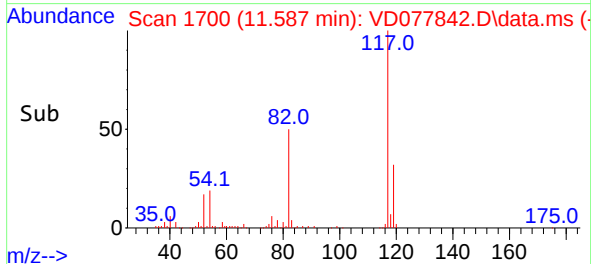
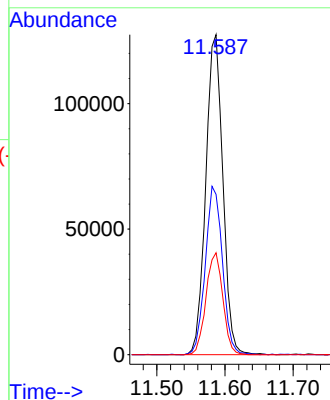
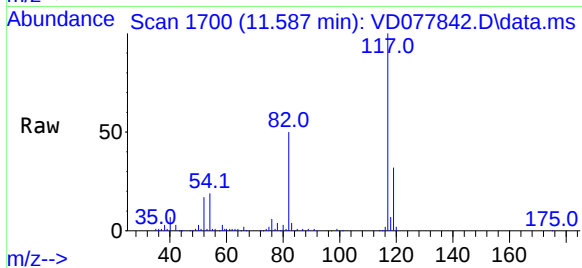
Tgt Ion:117 Resp: 221911

Ion Ratio Lower Upper

117 100

82 50.1 38.3 57.5

119 31.8 25.0 37.4



#65

Chlorobenzene

Concen: Below Cal

RT: 11.610 min Scan# 1704

Delta R.T. 0.006 min

Lab File: VD077842.D

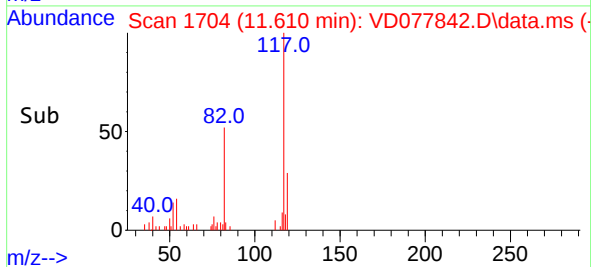
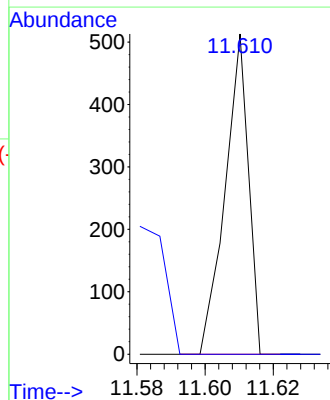
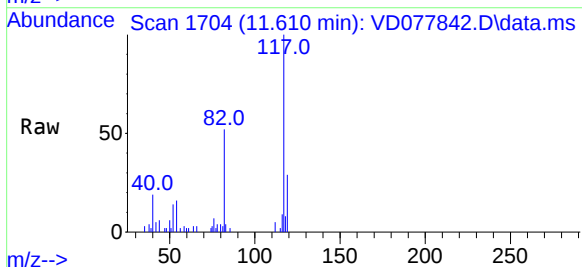
Acq: 12 Dec 2023 15:17

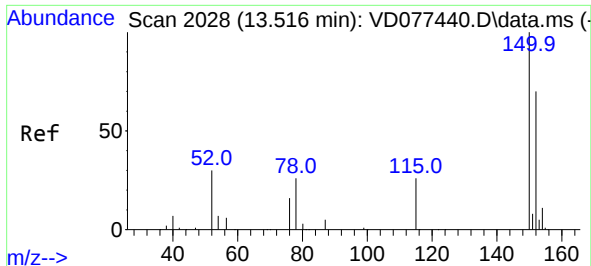
Tgt Ion:112 Resp: 244

Ion Ratio Lower Upper

112 100

114 0.0 25.1 37.7#

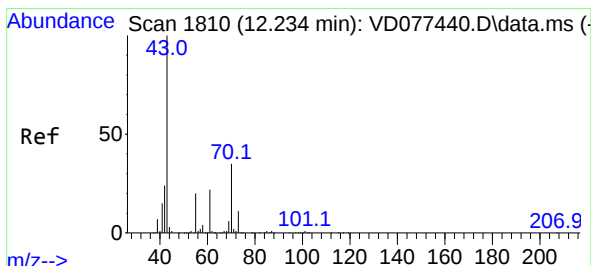
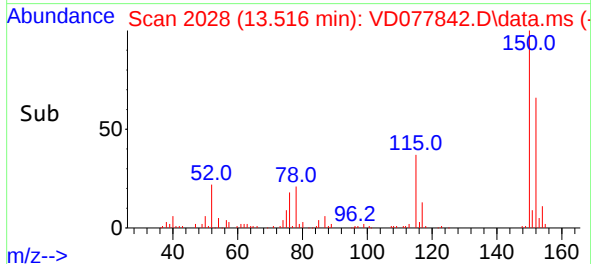
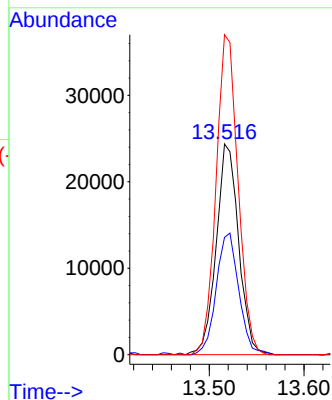
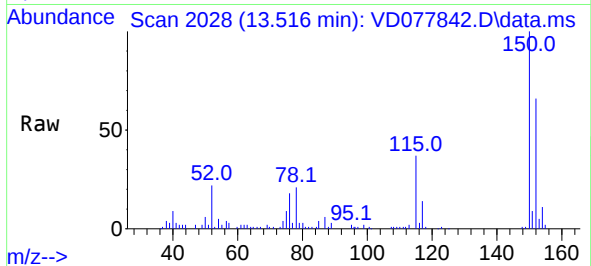




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. 0.000 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

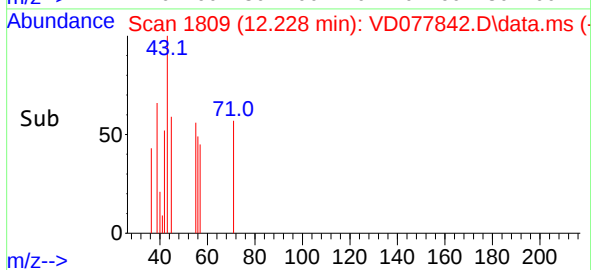
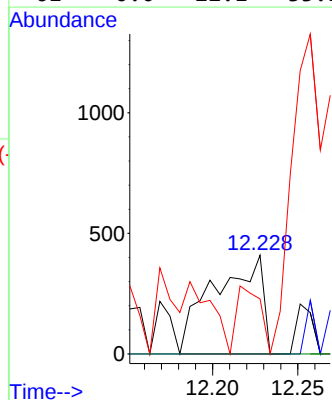
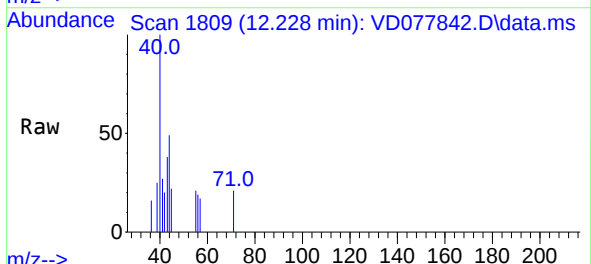
Instrument :
MSVOA_D
ClientSampleId :

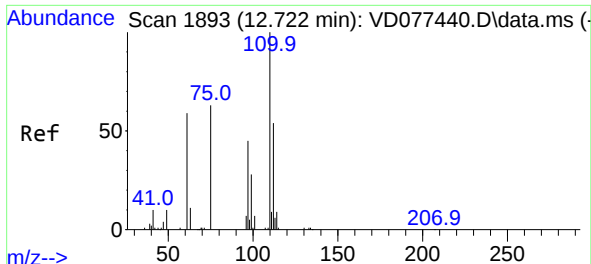
Tgt Ion:152 Resp: 40182
Ion Ratio Lower Upper
152 100
115 58.1 27.1 81.3
150 148.7 0.0 353.6



#74
N-ethyl acetate
Concen: 1.358 ug/l
RT: 12.228 min Scan# 1809
Delta R.T. -0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Tgt Ion: 43 Resp: 813
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 33.1 23.8 35.6
61 0.0 22.1 33.1#

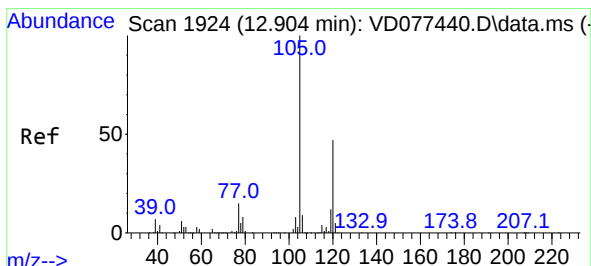
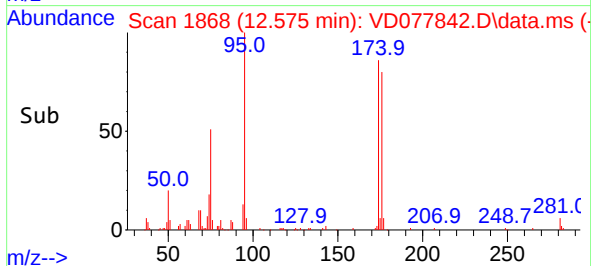
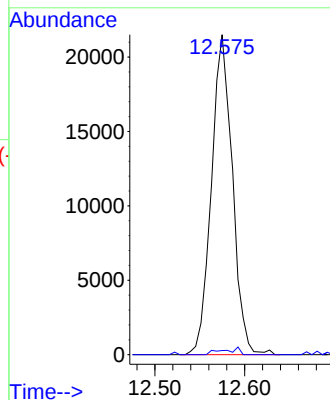
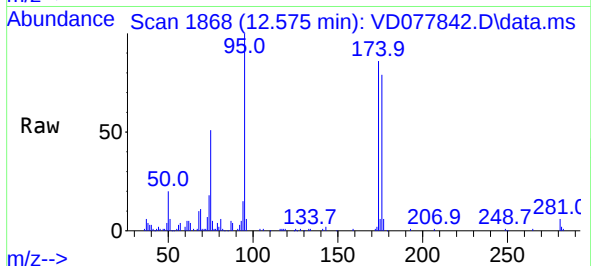




#76
1,2,3-Trichloropropane
Concen: 100.039 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

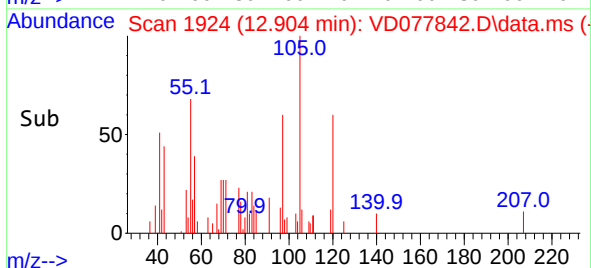
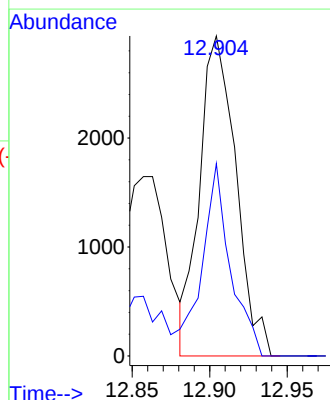
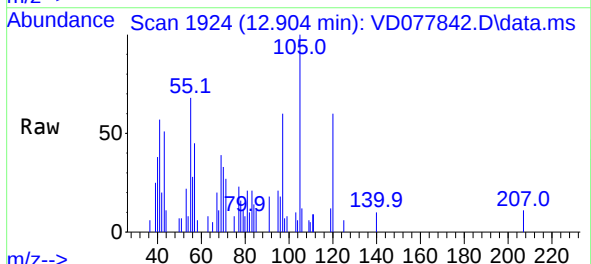
Instrument :
MSVOA_D
ClientSampleId :

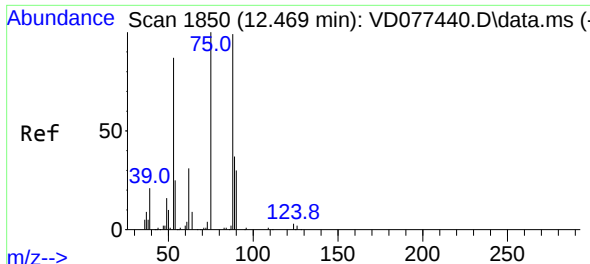
Tgt Ion: 75 Resp: 34912
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.887 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

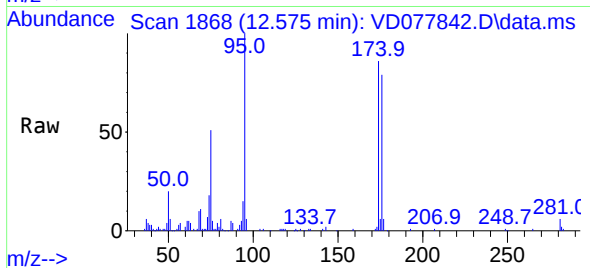
Tgt Ion:105 Resp: 4794
Ion Ratio Lower Upper
105 100
120 47.3 26.4 79.2



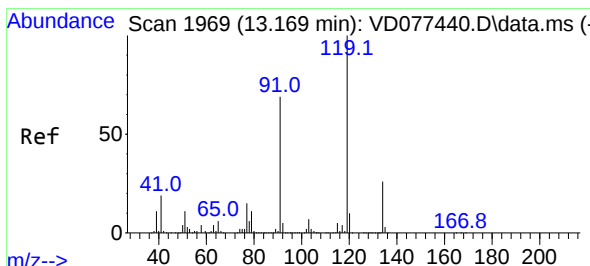
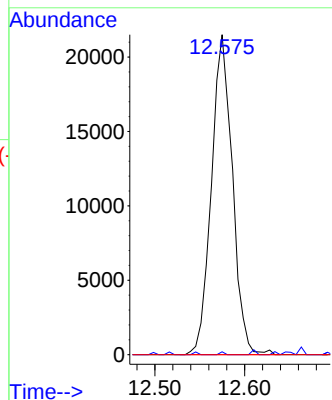
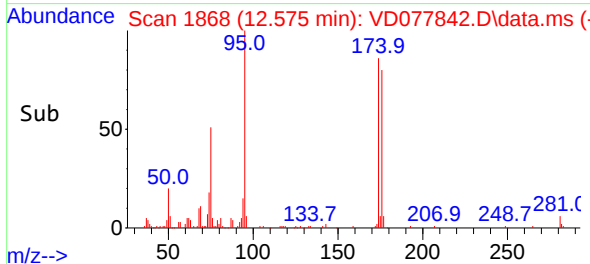


#81
 trans-1,4-Dichloro-2-butene
 Concen: 202.687 ug/l
 RT: 12.575 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VD077842.D
 Acq: 12 Dec 2023 15:17

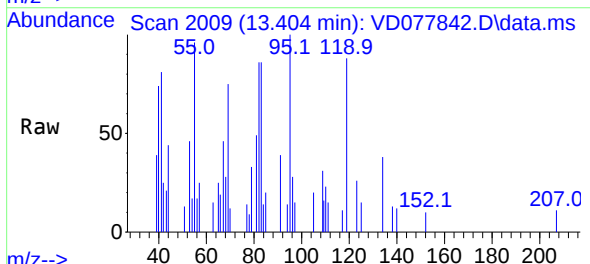
Instrument :
 MSVOA_D
 ClientSampleId :



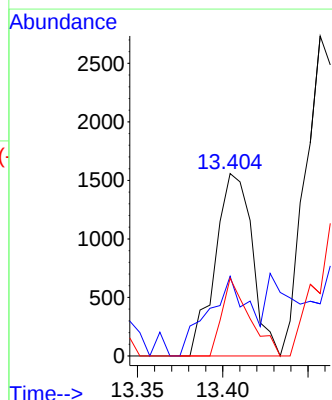
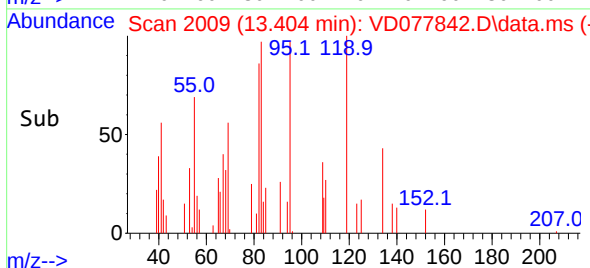
Tgt Ion: 75 Resp: 34912
 Ion Ratio Lower Upper
 75 100
 53 0.2 63.0 94.4#
 89 0.0 37.9 56.9#

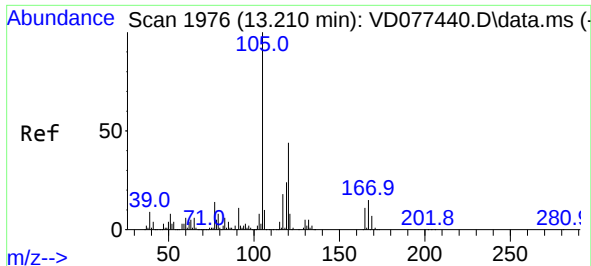


#83
 tert-Butylbenzene
 Concen: 1.097 ug/l
 RT: 13.404 min Scan# 2009
 Delta R.T. 0.235 min
 Lab File: VD077842.D
 Acq: 12 Dec 2023 15:17



Tgt Ion: 119 Resp: 2353
 Ion Ratio Lower Upper
 119 100
 91 48.2 29.3 87.8
 134 31.7 14.1 42.3

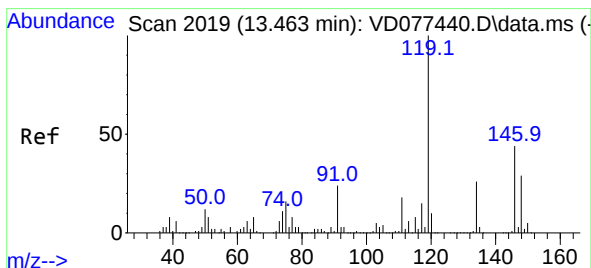
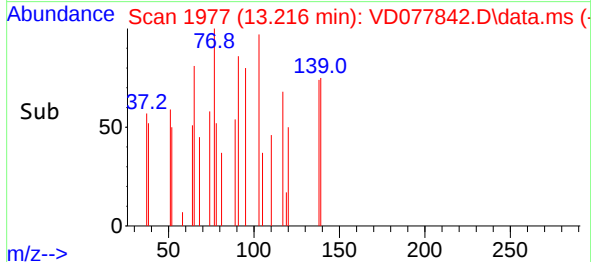
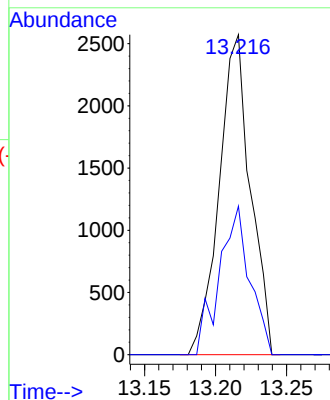
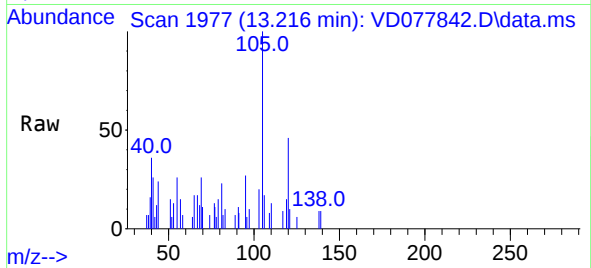




#84
1,2,4-Trimethylbenzene
Concen: 1.549 ug/l
RT: 13.216 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

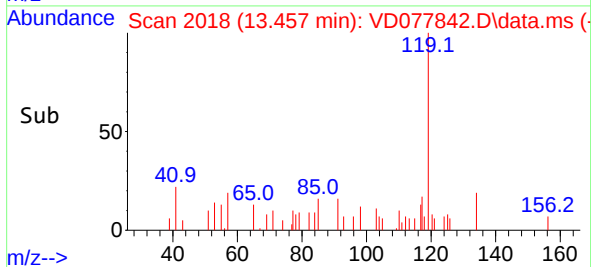
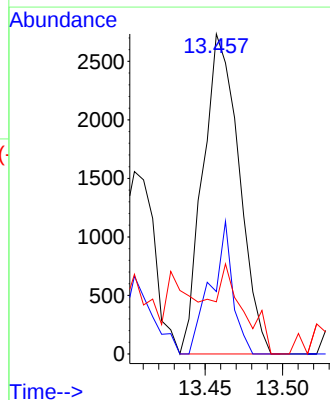
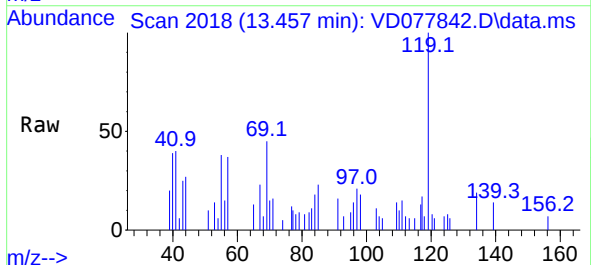
Instrument :
MSVOA_D
ClientSampleId :

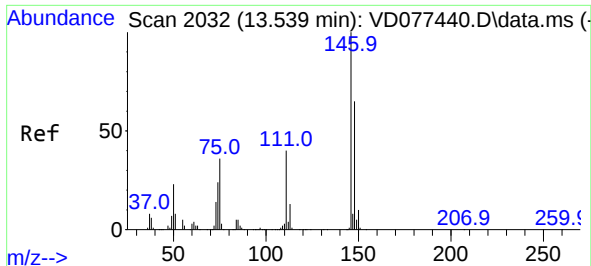
Tgt Ion:105 Resp: 3934
Ion Ratio Lower Upper
105 100
120 45.4 24.3 72.9



#86
p-Isopropyltoluene
Concen: 1.563 ug/l
RT: 13.457 min Scan# 2018
Delta R.T. -0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

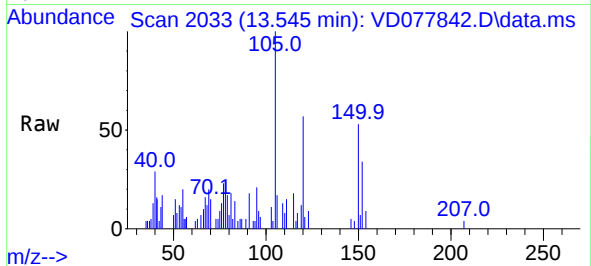
Tgt Ion:119 Resp: 4437
Ion Ratio Lower Upper
119 100
134 24.8 14.2 42.6
91 17.5 10.5 31.5



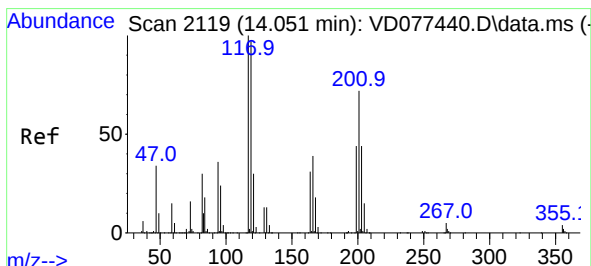
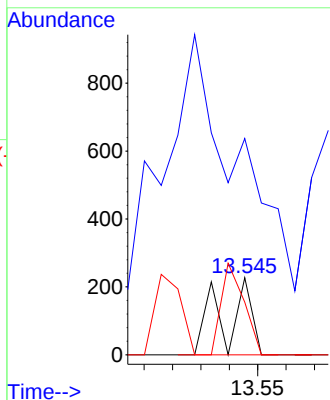
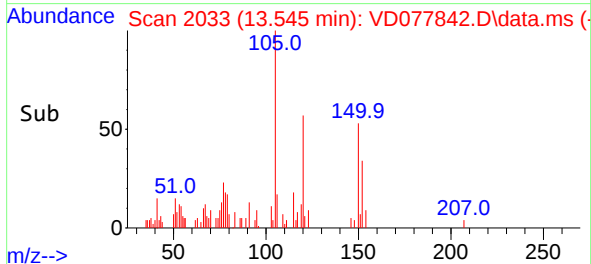


#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.545 min Scan# 2032
Delta R.T. 0.006 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:146 Resp: 156
Ion Ratio Lower Upper
146 100
111 1089.1 17.4 52.3#
148 96.2 31.7 95.1#



#90
Hexachloroethane
Concen: 1.609 ug/l
RT: 14.063 min Scan# 2121
Delta R.T. 0.012 min
Lab File: VD077842.D
Acq: 12 Dec 2023 15:17

Tgt Ion:117 Resp: 840
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#

