

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121523\
 Data File : VD077904.D
 Acq On : 15 Dec 2023 15:29
 Operator : RP/MD
 Sample : 05805-01
 Misc : 5.02G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 04:02:39 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)

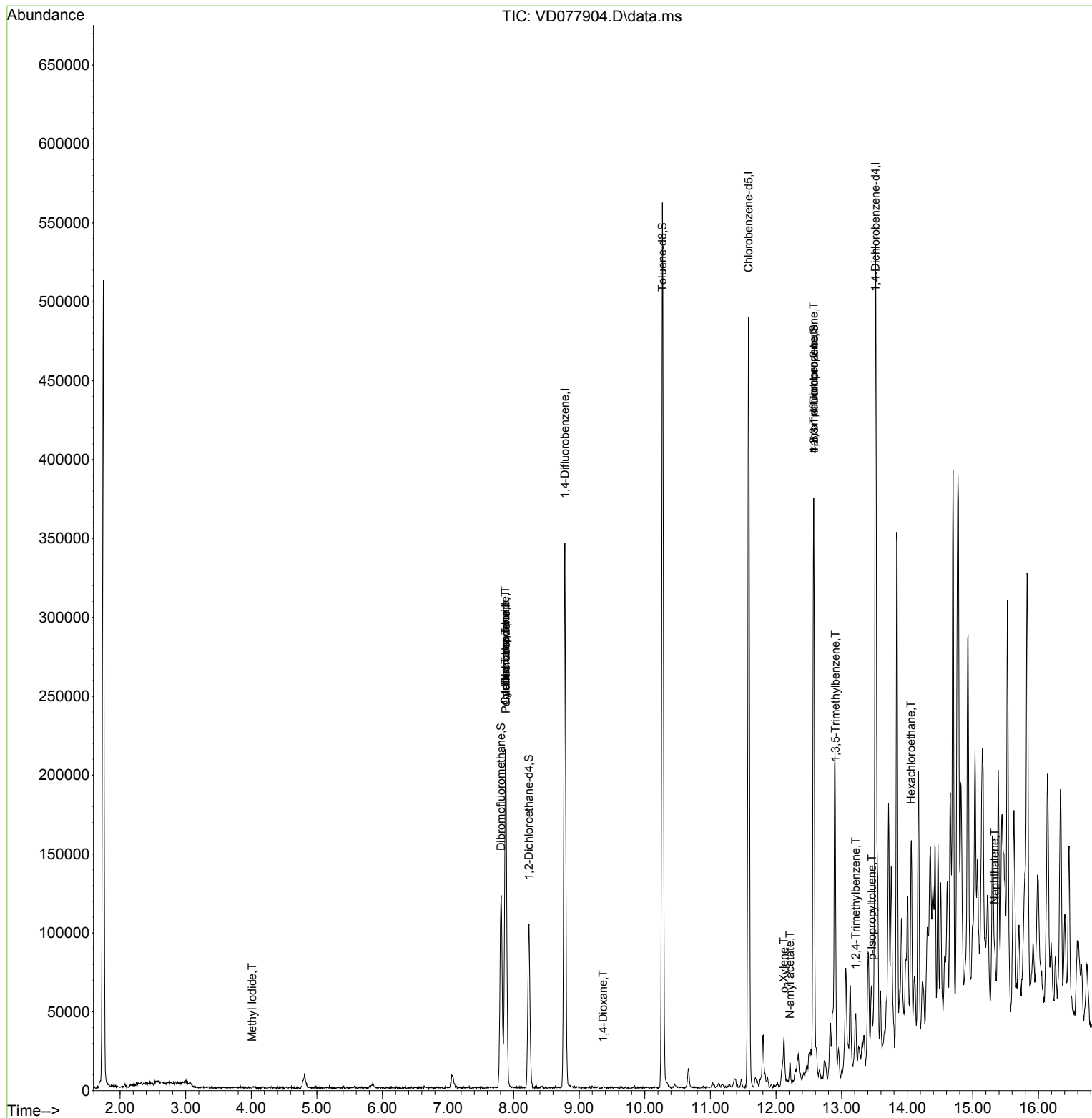
Internal Standards						
1) Pentafluorobenzene	7.881	168	164494	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	300503	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	280985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	130839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	78369	40.431	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	80.860%
35) Dibromofluoromethane	7.810	113	87370	41.508	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.020%
50) Toluene-d8	10.269	98	384378	45.594	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.180%
62) 4-Bromofluorobenzene	12.575	95	112959	44.816	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	89.640%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.017	142	55	6.769	ug/l #	46
11) Tert butyl alcohol	5.011	59	59	Below Cal	#	73
16) Acetone	4.017	43	677	Below Cal	#	59
20) Methylene Chloride	4.811	84	5808	Below Cal	#	81
25) 2-Butanone	7.058	43	342	Below Cal	#	37
31) Cyclohexane	7.875	56	4136	1.200	ug/l #	61
36) 1,1-Dichloropropene	7.875	75	13613	4.043	ug/l #	50
38) Carbon Tetrachloride	7.875	117	16046	4.780	ug/l #	17
49) 1,4-Dioxane	9.363	88	55	4.506	ug/l #	36
65) Chlorobenzene	11.381	112	132	Below Cal	#	43
69) o-Xylene	12.122	106	6570	1.593	ug/l	95
74) N-amyl acetate	12.210	43	3130	1.606	ug/l #	66
76) 1,2,3-Trichloropropane	12.575	75	57299	50.424	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.904	105	28501	3.446	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.575	75	57299	102.163	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.216	105	18014	2.178	ug/l	92
86) p-Isopropyltoluene	13.463	119	9716	1.051	ug/l	97
88) 1,4-Dichlorobenzene	13.540	146	66	Below Cal	#	26
90) Hexachloroethane	14.057	117	6051	3.561	ug/l #	11
95) Naphthalene	15.334	128	5675	1.233	ug/l #	87

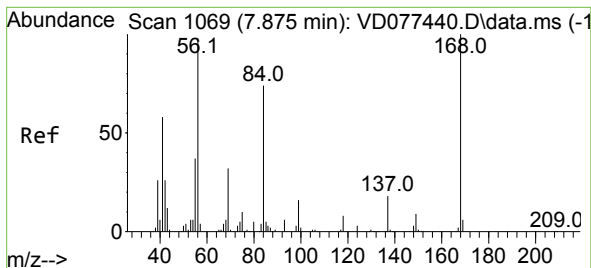
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 16 04:02:39 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA_D

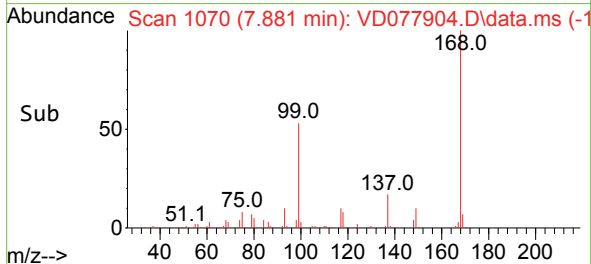
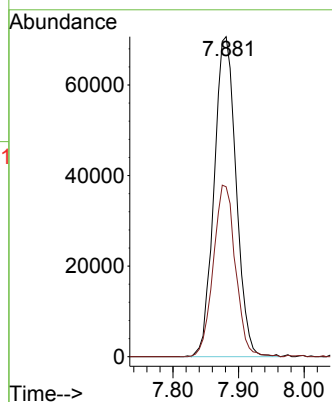
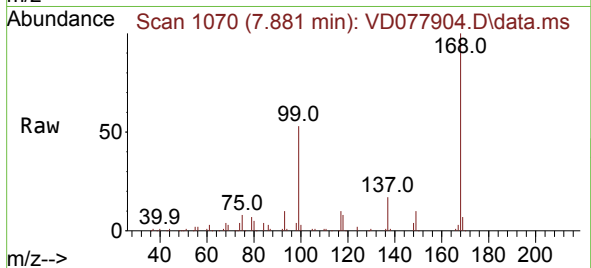
ClientSampleId :

Tgt Ion:168 Resp: 164494

Ion Ratio Lower Upper

168 100

99 53.1 36.7 55.1



#10

Methyl Iodide

Concen: 6.769 ug/l

RT: 4.017 min Scan# 413

Delta R.T. -0.152 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

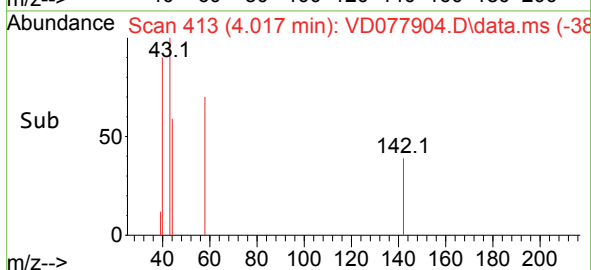
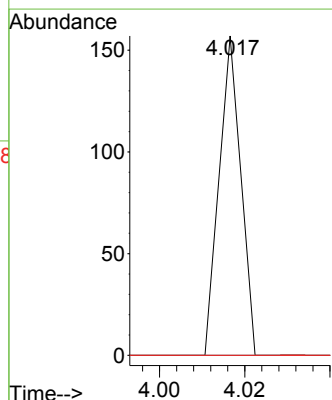
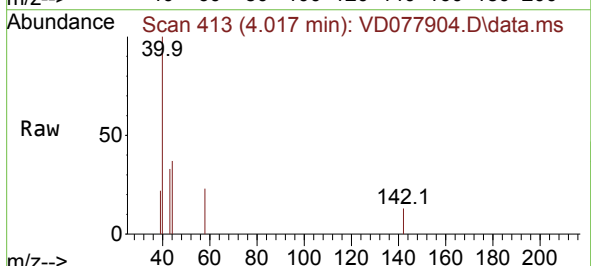
Tgt Ion:142 Resp: 55

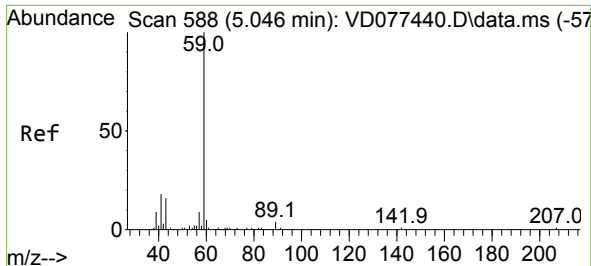
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

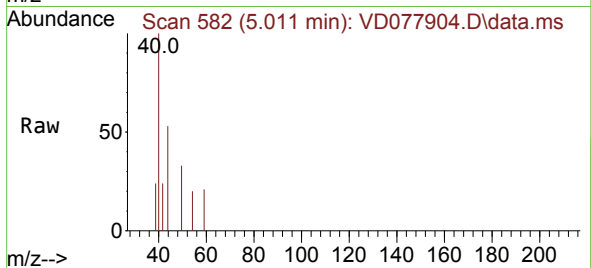
141 0.0 11.1 16.7#



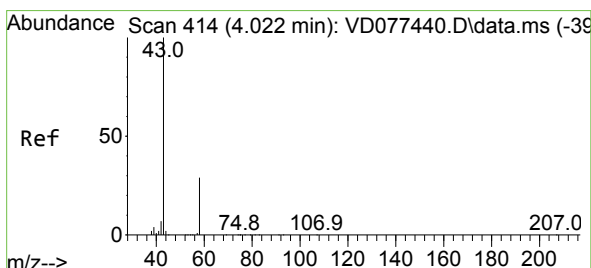
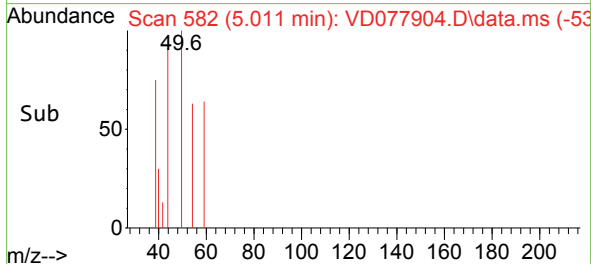
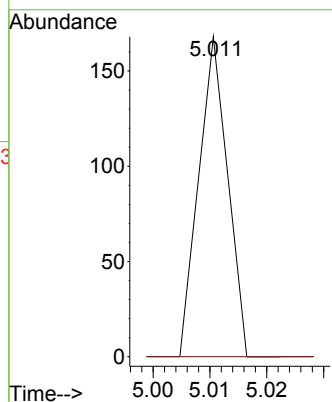


#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.011 min Scan# 51
Delta R.T. -0.035 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Instrument :
MSVOA_D
ClientSampleId :

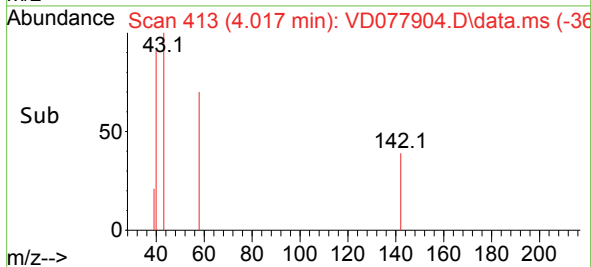
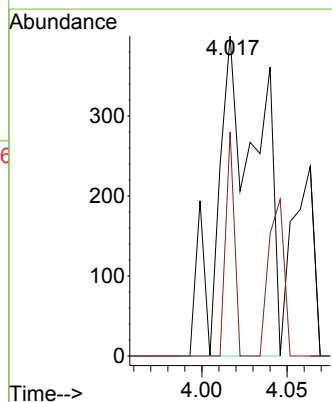
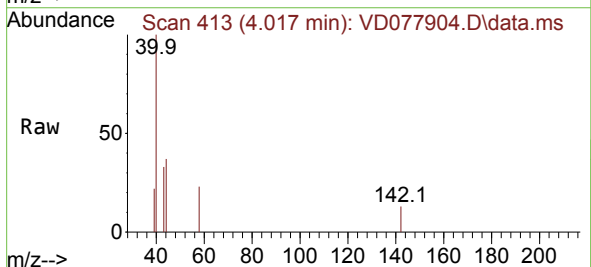


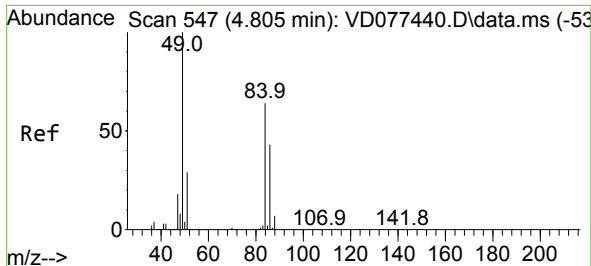
Tgt Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: Below Cal
RT: 4.017 min Scan# 413
Delta R.T. -0.005 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

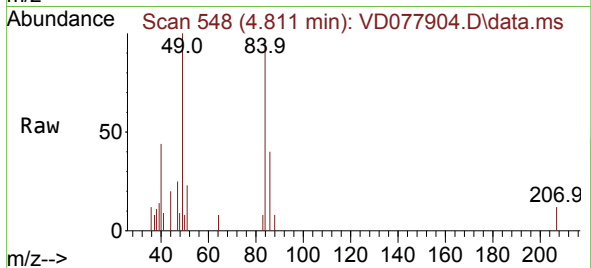
Tgt Ion: 43 Resp: 677
Ion Ratio Lower Upper
43 100
58 70.0 34.7 52.1#



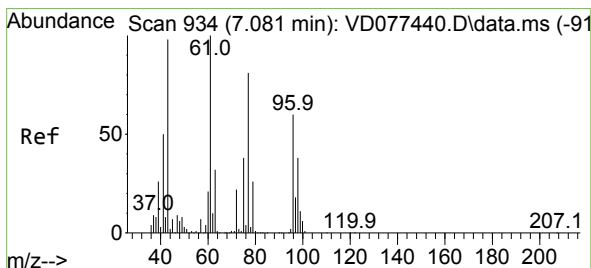
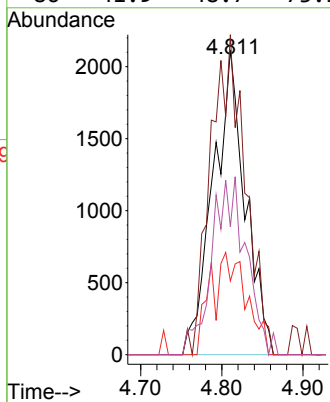
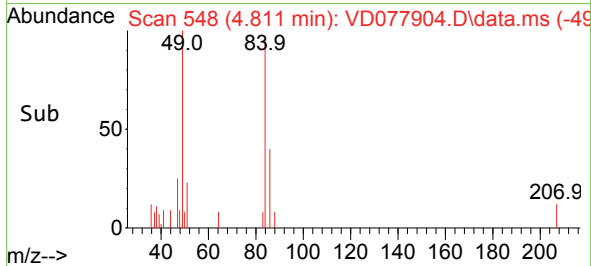


#20
Methylene Chloride
Concen: Below Cal
RT: 4.811 min Scan# 54
Delta R.T. 0.006 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Instrument :
MSVOA_D
ClientSampleId :

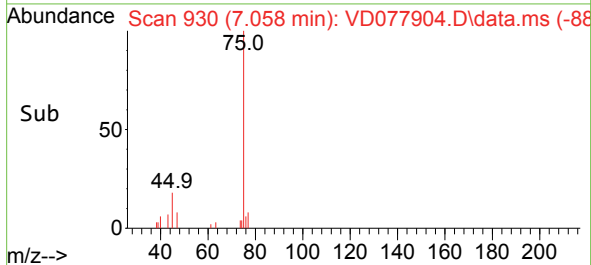
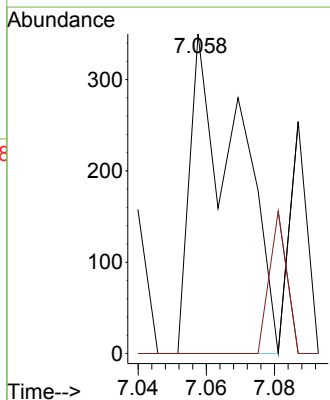
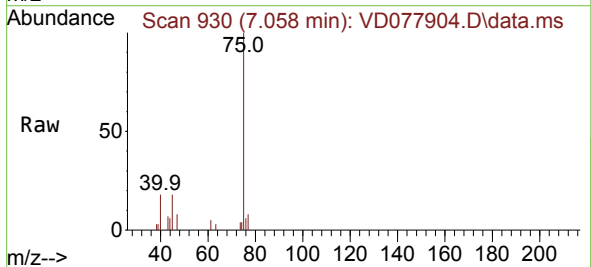


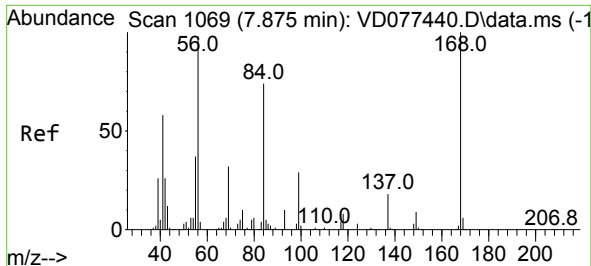
Tgt Ion: 84 Resp: 5808
Ion Ratio Lower Upper
84 100
49 105.0 71.4 107.2
51 24.1 24.5 36.7#
86 41.9 48.7 73.1#



#25
2-Butanone
Concen: Below Cal
RT: 7.058 min Scan# 930
Delta R.T. -0.023 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

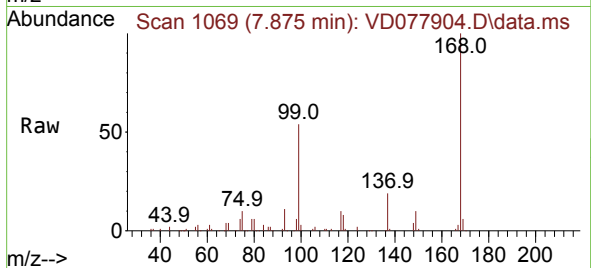
Tgt Ion: 43 Resp: 342
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



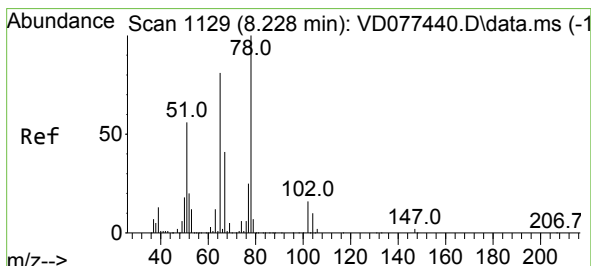
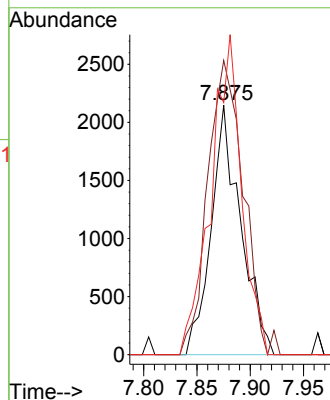
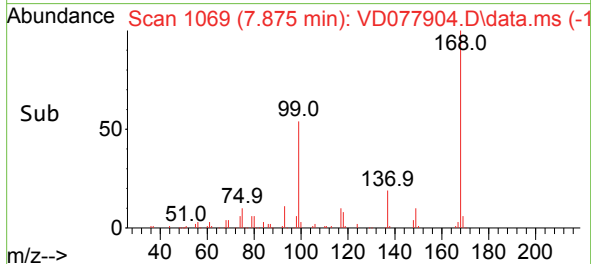


#31
Cyclohexane
Concen: 1.200 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Instrument :
MSVOA_D
ClientSampleId :

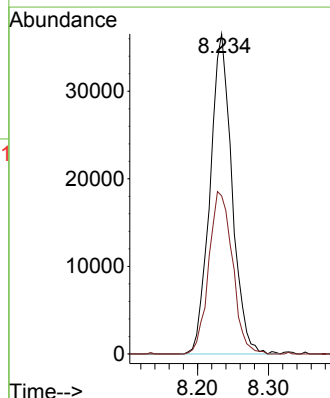
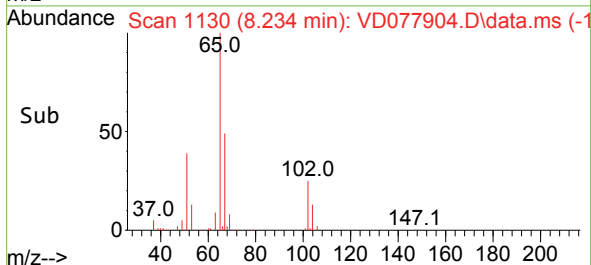
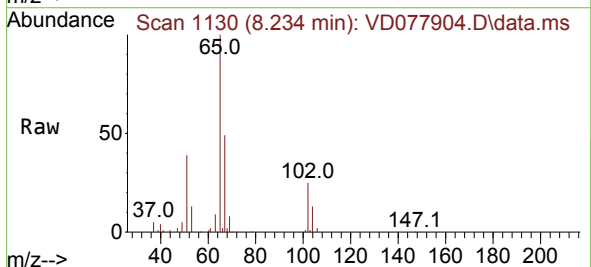


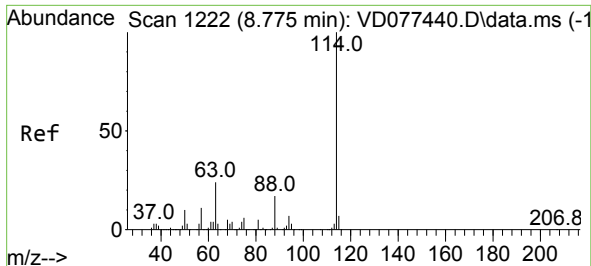
Tgt Ion: 56 Resp: 4136
Ion Ratio Lower Upper
56 100
69 117.9 28.6 43.0#
84 101.0 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 40.431 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Tgt Ion: 65 Resp: 78369
Ion Ratio Lower Upper
65 100
67 54.8 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

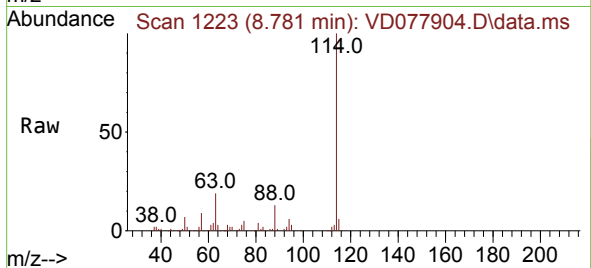
Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA_D

ClientSampleId :



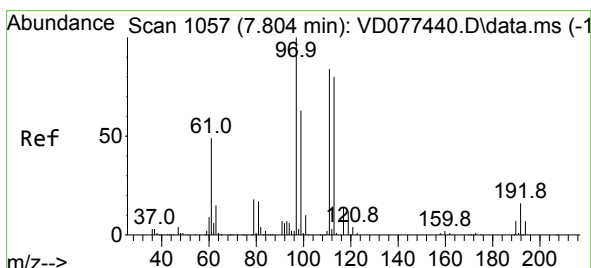
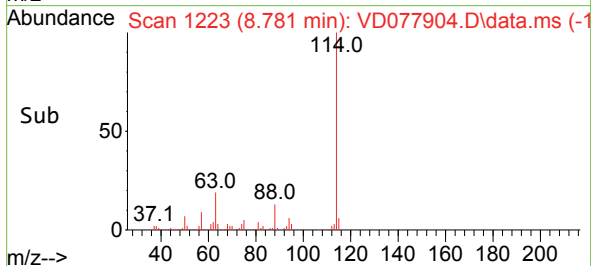
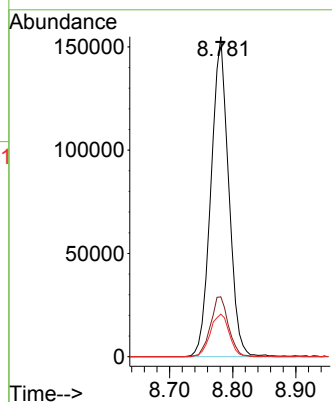
Tgt Ion:114 Resp: 300503

Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.4

88 13.3 0.0 26.2



#35

Dibromofluoromethane

Concen: 41.508 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

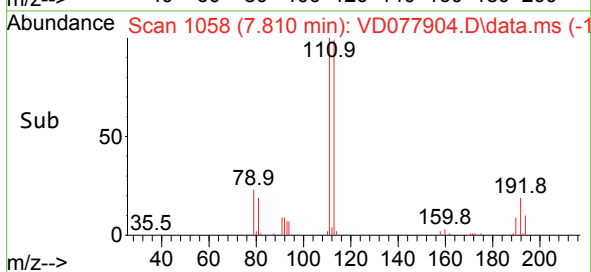
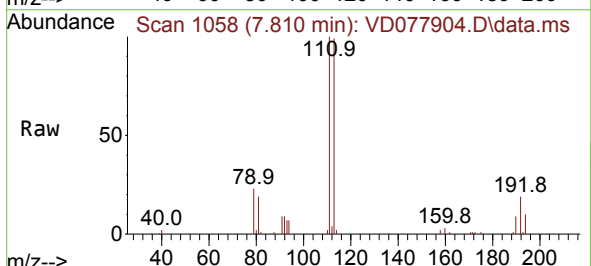
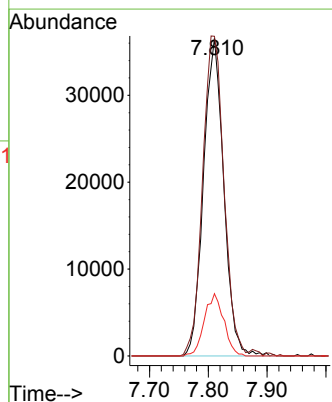
Tgt Ion:113 Resp: 87370

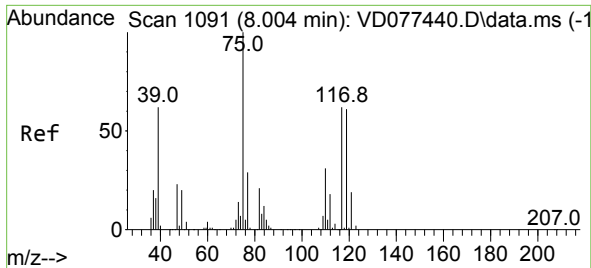
Ion Ratio Lower Upper

113 100

111 106.0 84.7 127.1

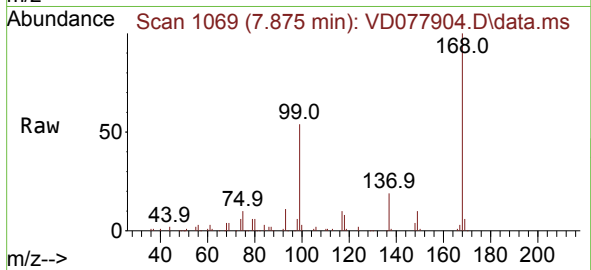
192 18.9 16.8 25.2



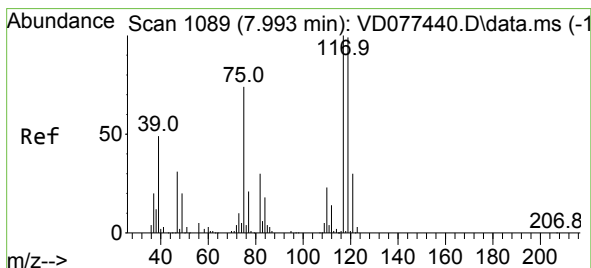
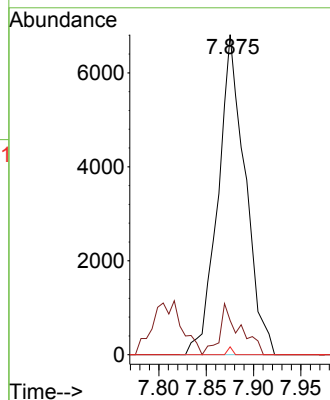
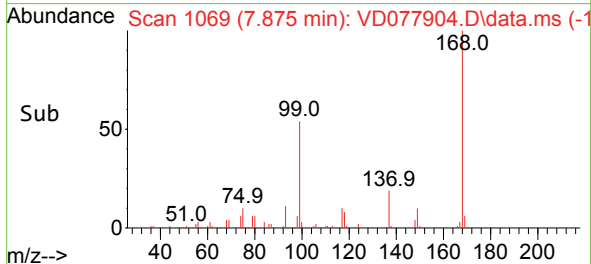


#36
1,1-Dichloropropene
Concen: 4.043 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

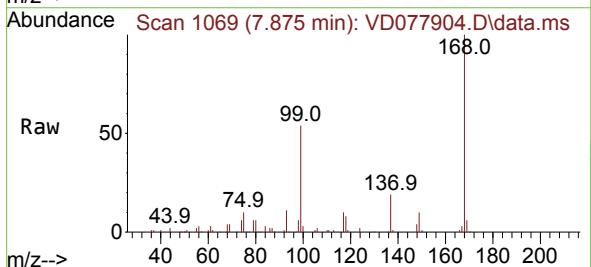
Instrument :
MSVOA_D
ClientSampleId :



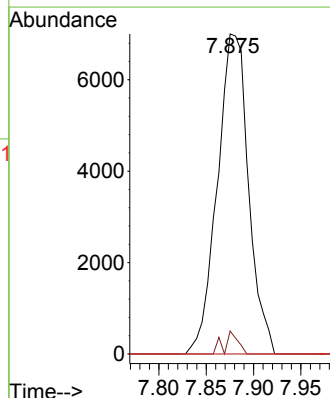
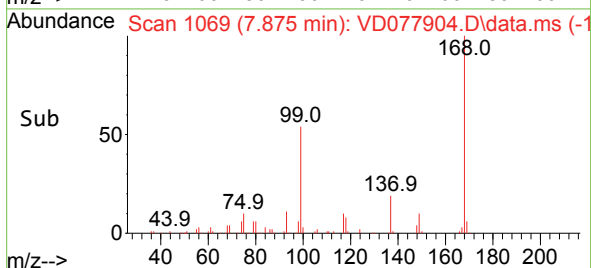
Tgt Ion: 75 Resp: 13613
Ion Ratio Lower Upper
75 100
110 11.9 19.9 59.6#
77 0.4 24.7 37.1#

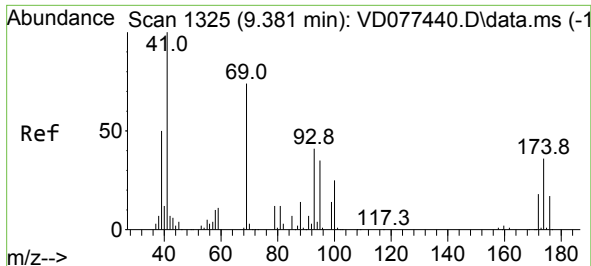


#38
Carbon Tetrachloride
Concen: 4.780 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.118 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29



Tgt Ion: 117 Resp: 16046
Ion Ratio Lower Upper
117 100
119 7.2 78.0 117.0#
121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 4.506 ug/l

RT: 9.363 min Scan# 11

Delta R.T. -0.018 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA_D

ClientSampleId :

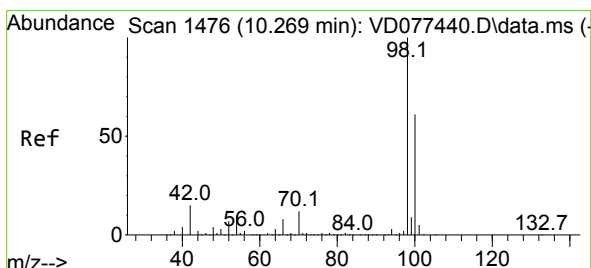
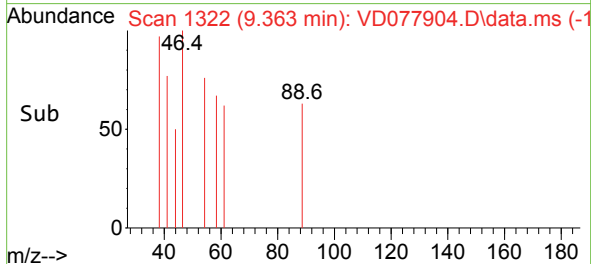
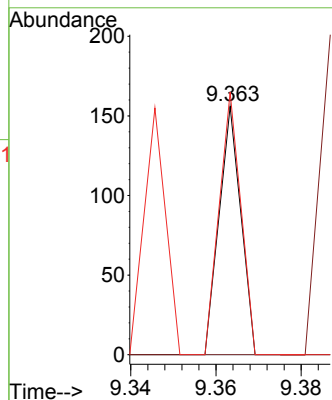
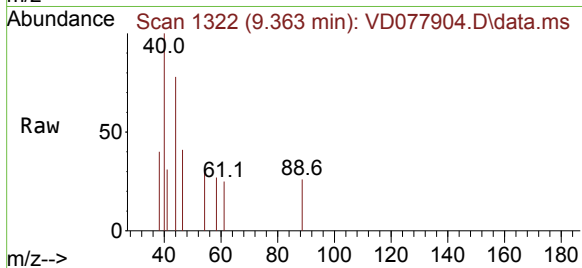
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 0.0 19.0 28.6#

58 105.5 43.5 65.3#



#50

Toluene-d8

Concen: 45.594 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD077904.D

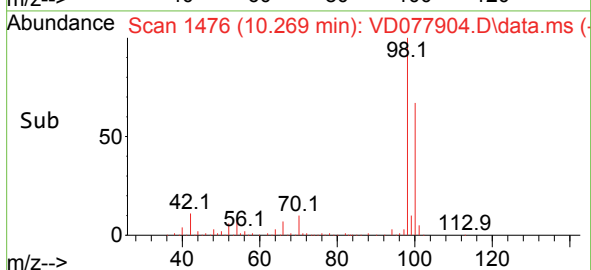
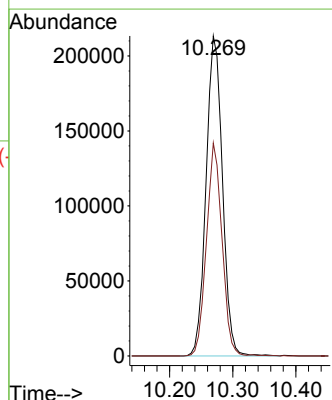
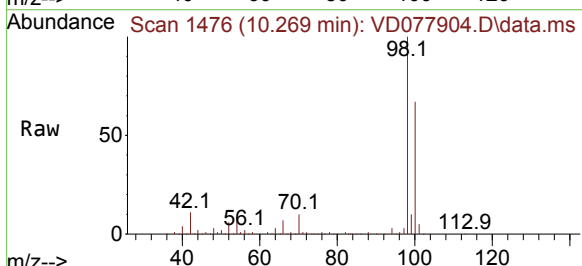
Acq: 15 Dec 2023 15:29

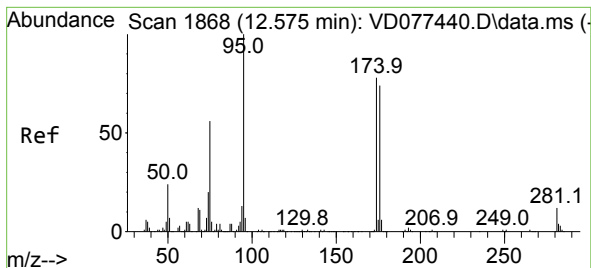
Tgt Ion: 98 Resp: 384378

Ion Ratio Lower Upper

98 100

100 63.5 50.3 75.5

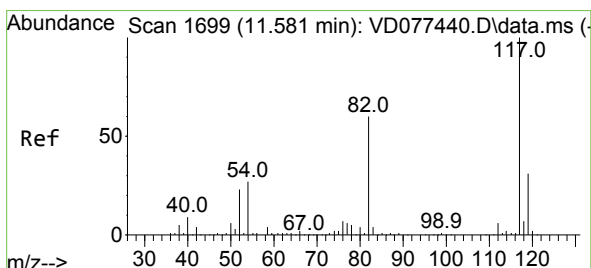
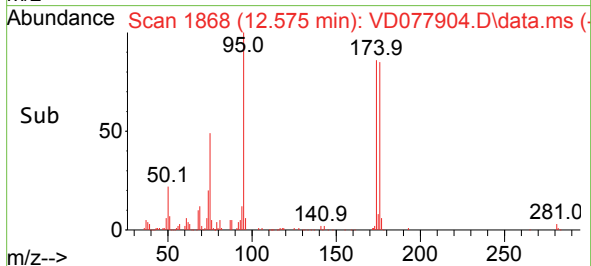
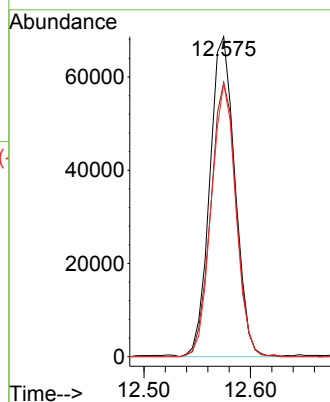
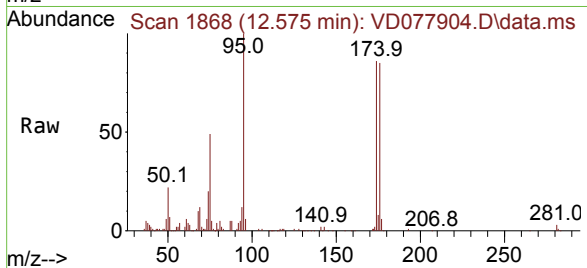




#62
4-Bromofluorobenzene
Concen: 44.816 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

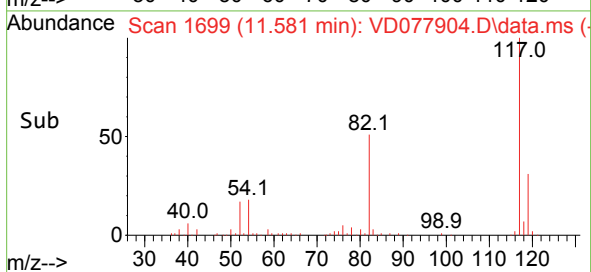
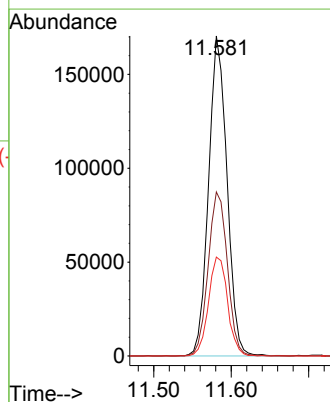
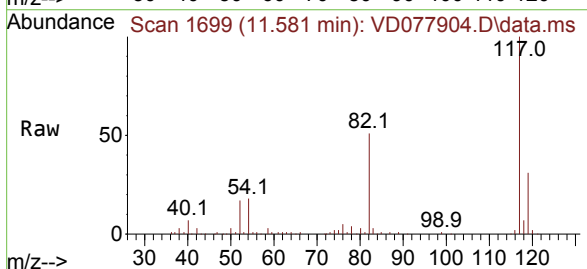
Instrument :
MSVOA_D
ClientSampleId :

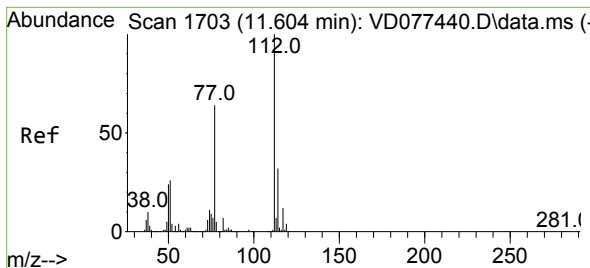
Tgt Ion:	95	Resp:	112959
Ion Ratio	Lower	Upper	
95	100		
174	86.1	0.0	201.8
176	82.9	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Tgt Ion:	117	Resp:	280985
Ion Ratio	Lower	Upper	
117	100		
82	51.1	38.3	57.5
119	30.9	25.0	37.4

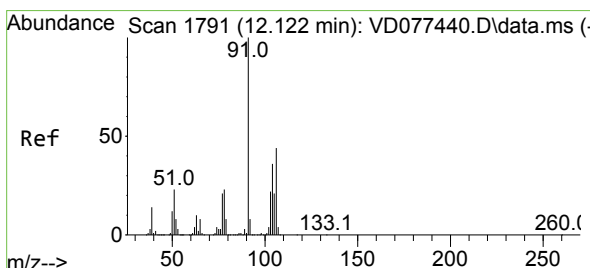
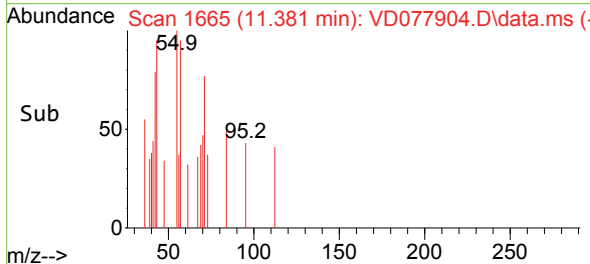
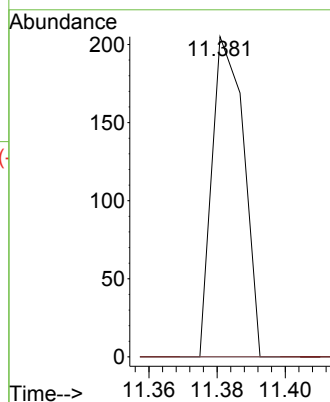
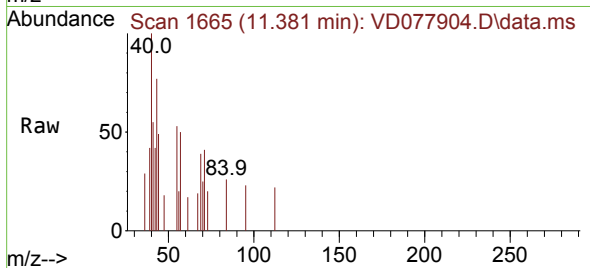




#65
Chlorobenzene
Concen: Below Cal
RT: 11.381 min Scan# 1132
Delta R.T. -0.223 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

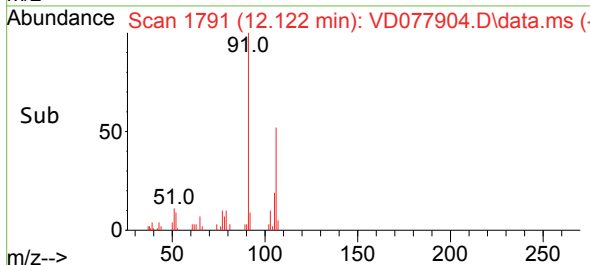
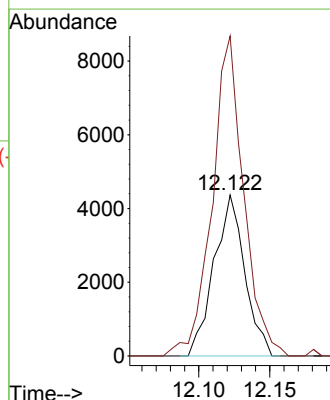
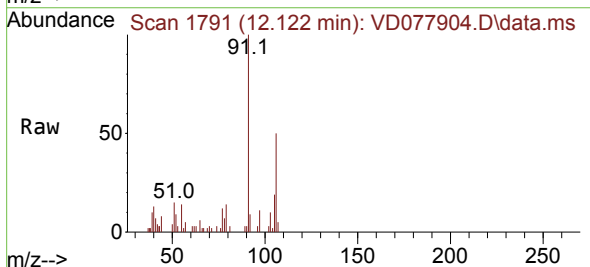
Instrument :
MSVOA_D
ClientSampleId :

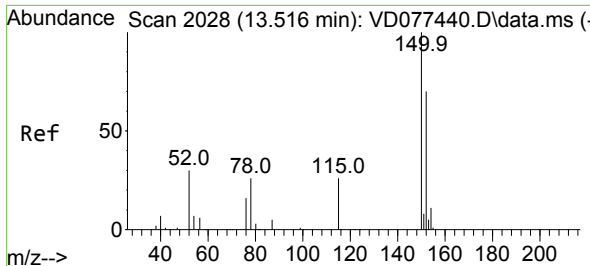
Tgt Ion:112 Resp: 132
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#



#69
o-Xylene
Concen: 1.593 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

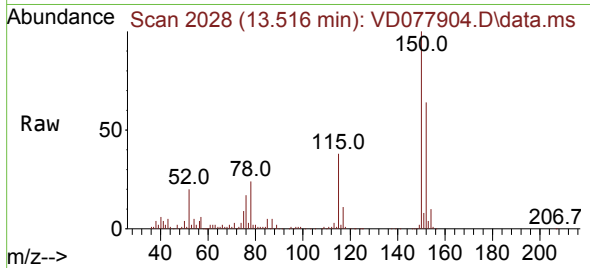
Tgt Ion:106 Resp: 6570
Ion Ratio Lower Upper
106 100
91 203.7 97.9 293.6



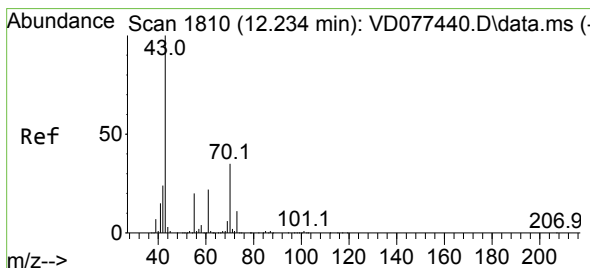
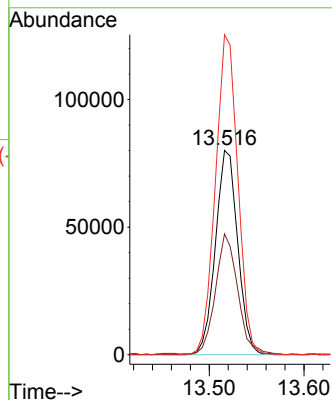
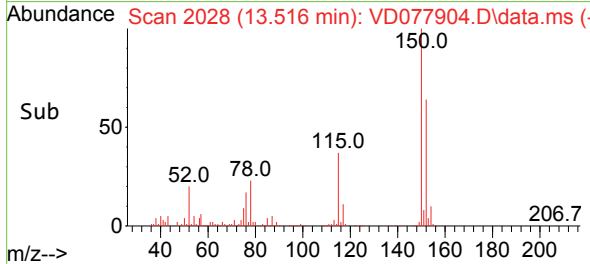


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2028
 Delta R.T. 0.000 min
 Lab File: VD077904.D
 Acq: 15 Dec 2023 15:29

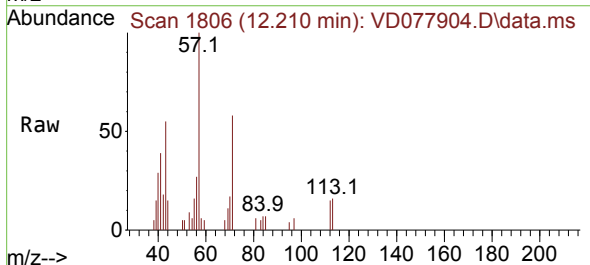
Instrument :
 MSVOA_D
 ClientSampleId :



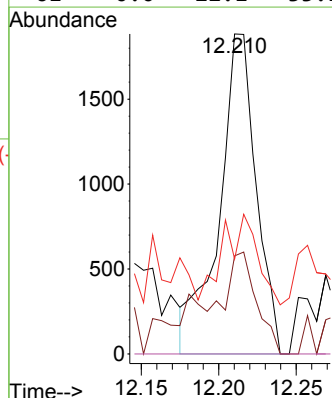
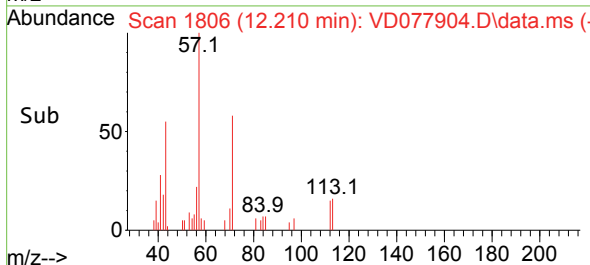
Tgt Ion:152 Resp: 130839
 Ion Ratio Lower Upper
 152 100
 115 59.6 27.1 81.3
 150 157.5 0.0 353.6

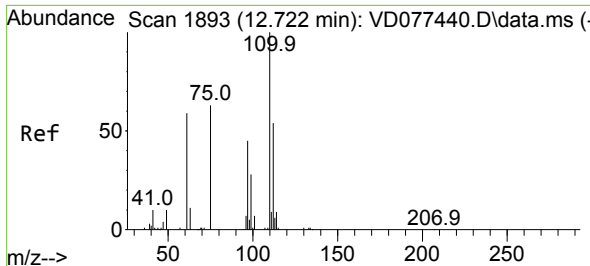


#74
 N-ethyl acetate
 Concen: 1.606 ug/l
 RT: 12.210 min Scan# 1806
 Delta R.T. -0.024 min
 Lab File: VD077904.D
 Acq: 15 Dec 2023 15:29



Tgt Ion: 43 Resp: 3130
 Ion Ratio Lower Upper
 43 100
 70 28.0 45.0 67.4#
 55 26.1 23.8 35.6
 61 0.0 22.1 33.1#

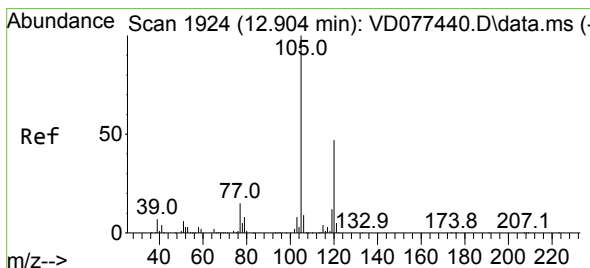
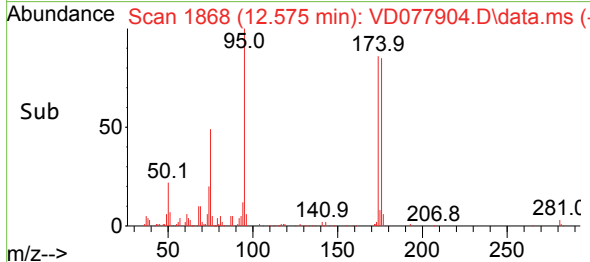
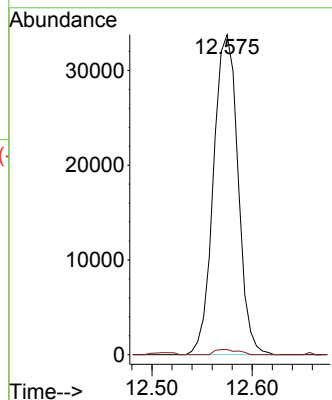
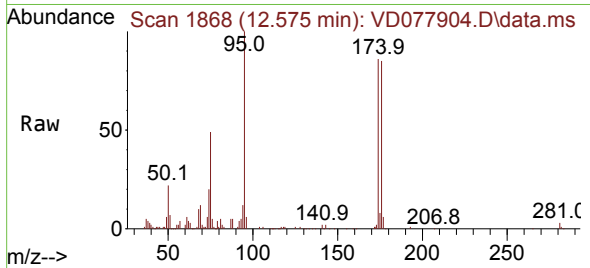




#76
 1,2,3-Trichloropropane
 Concen: 50.424 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.147 min
 Lab File: VD077904.D
 Acq: 15 Dec 2023 15:29

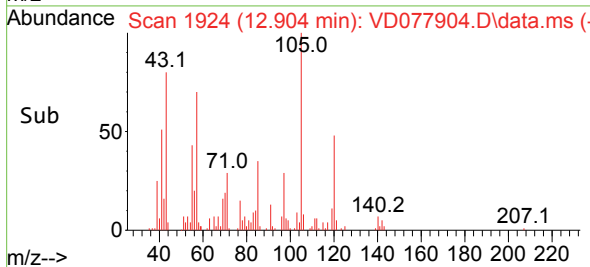
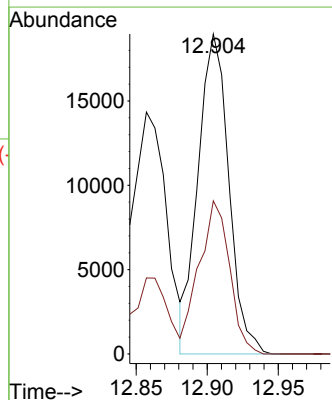
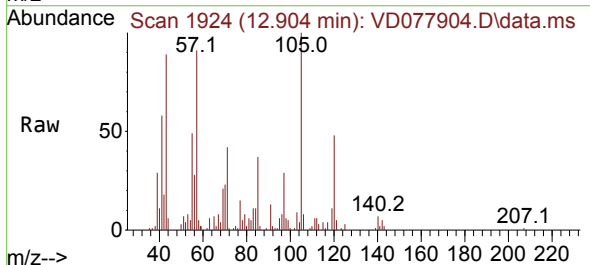
Instrument :
 MSVOA_D
 ClientSampleId :

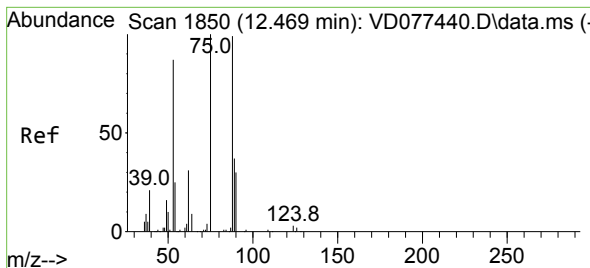
Tgt Ion: 75 Resp: 57299
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.446 ug/l
 RT: 12.904 min Scan# 1924
 Delta R.T. 0.000 min
 Lab File: VD077904.D
 Acq: 15 Dec 2023 15:29

Tgt Ion:105 Resp: 28501
 Ion Ratio Lower Upper
 105 100
 120 47.7 26.4 79.2

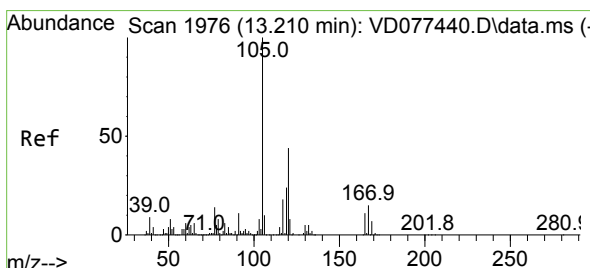
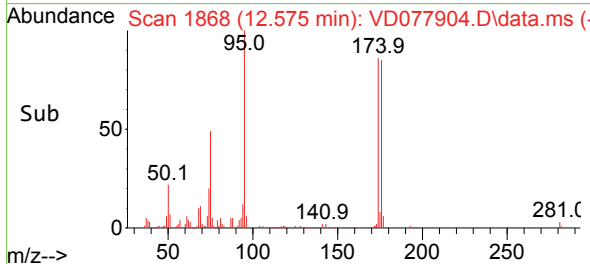
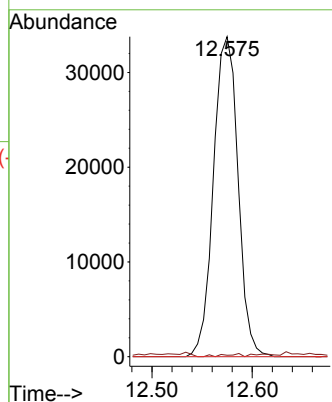
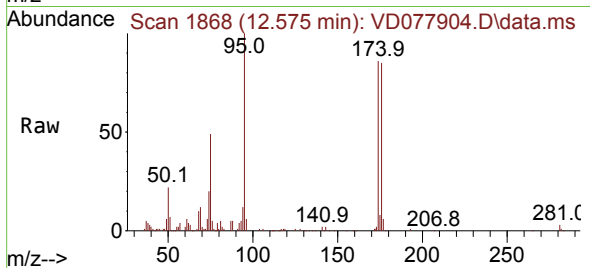




#81
trans-1,4-Dichloro-2-butene
Concen: 102.163 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

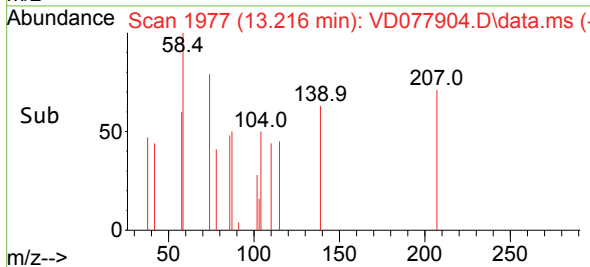
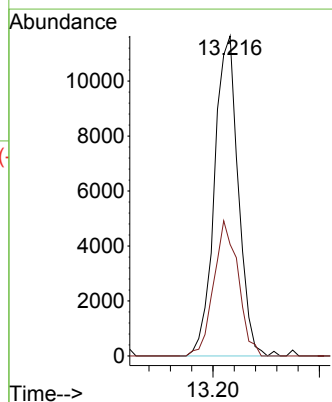
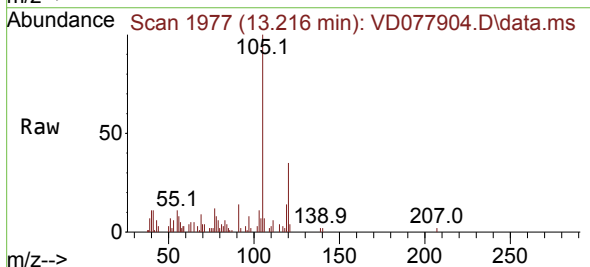
Instrument :
MSVOA_D
ClientSampleId :

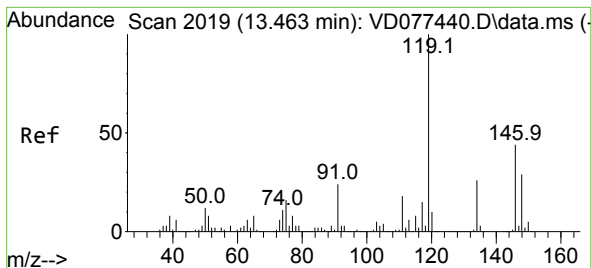
Tgt Ion: 75 Resp: 57299
Ion Ratio Lower Upper
75 100
53 0.7 63.0 94.4#
89 0.0 37.9 56.9#



#84
1,2,4-Trimethylbenzene
Concen: 2.178 ug/l
RT: 13.216 min Scan# 1977
Delta R.T. 0.006 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Tgt Ion: 105 Resp: 18014
Ion Ratio Lower Upper
105 100
120 43.4 24.3 72.9





#86

p-Isopropyltoluene

Concen: 1.051 ug/l

RT: 13.463 min Scan# 2019

Delta R.T. 0.000 min

Lab File: VD077904.D

Acq: 15 Dec 2023 15:29

Instrument :

MSVOA_D

ClientSampleId :

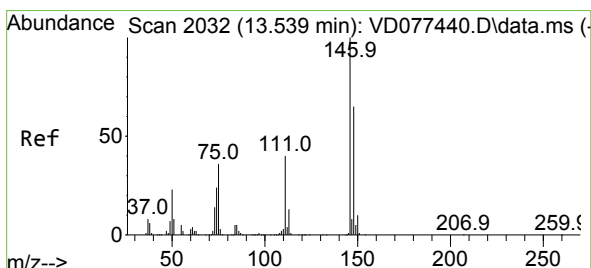
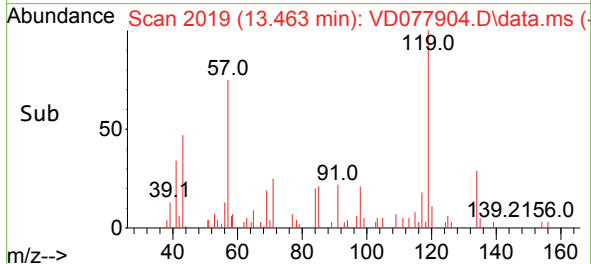
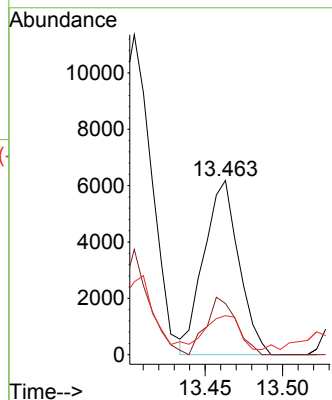
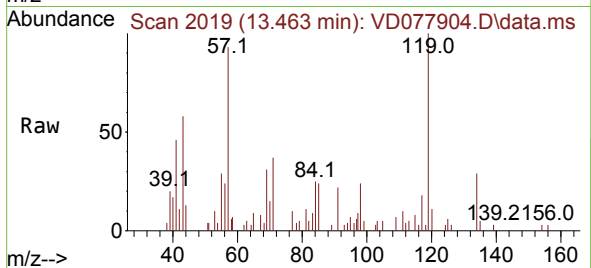
Tgt Ion:119 Resp: 9716

Ion Ratio Lower Upper

119 100

134 28.4 14.2 42.6

91 18.2 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: VD077904.D

Acq: 15 Dec 2023 15:29

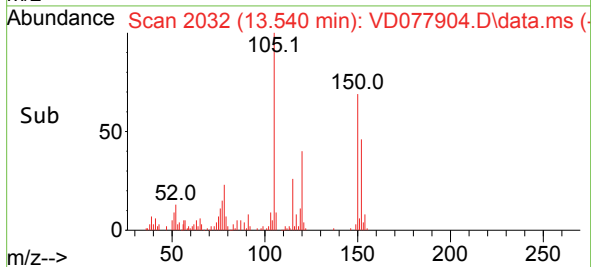
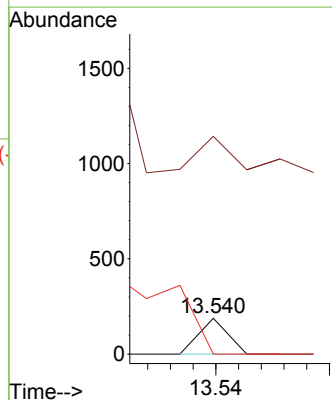
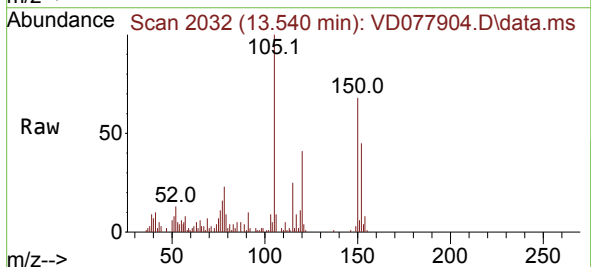
Tgt Ion:146 Resp: 66

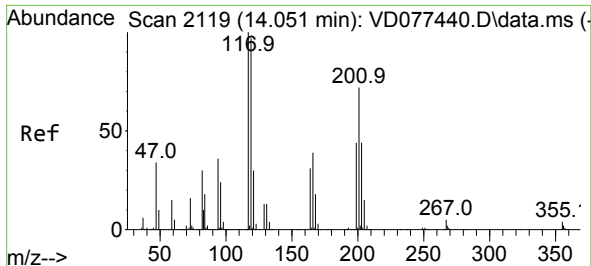
Ion Ratio Lower Upper

146 100

111 0.0 17.4 52.3#

148 0.0 31.7 95.1#

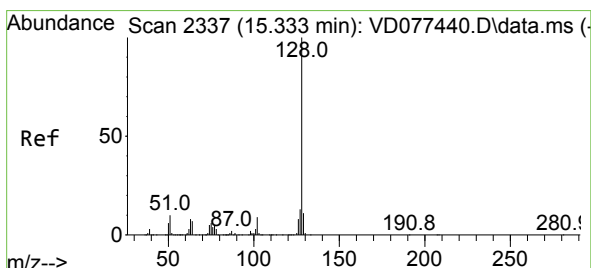
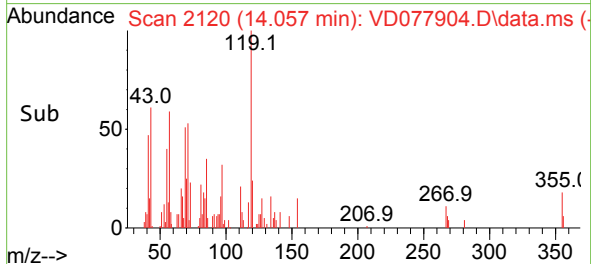
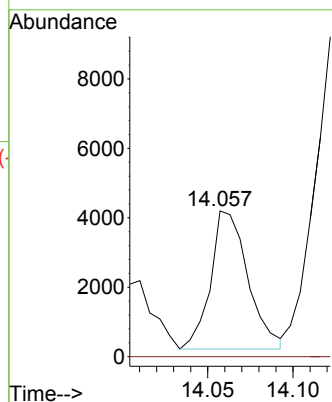
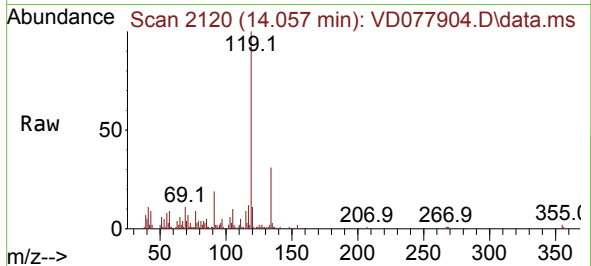




#90
Hexachloroethane
Concen: 3.561 ug/l
RT: 14.057 min Scan# 2119
Delta R.T. 0.006 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:117 Resp: 6051
Ion Ratio Lower Upper
117 100
201 0.0 38.5 115.5#



#95
Naphthalene
Concen: 1.233 ug/l
RT: 15.334 min Scan# 2337
Delta R.T. 0.001 min
Lab File: VD077904.D
Acq: 15 Dec 2023 15:29

Tgt Ion:128 Resp: 5675
Ion Ratio Lower Upper
128 100
127 14.4 10.5 15.7
129 20.6 8.7 13.1#

