

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122822\
 Data File : VD075072.D
 Acq On : 28 Dec 2022 18:10
 Operator : KP/SY
 Sample : N6219-04RE
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-12016

Quant Time: Dec 29 03:53:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D12222S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 23 05:54:19 2022
 Response via : Initial Calibration

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

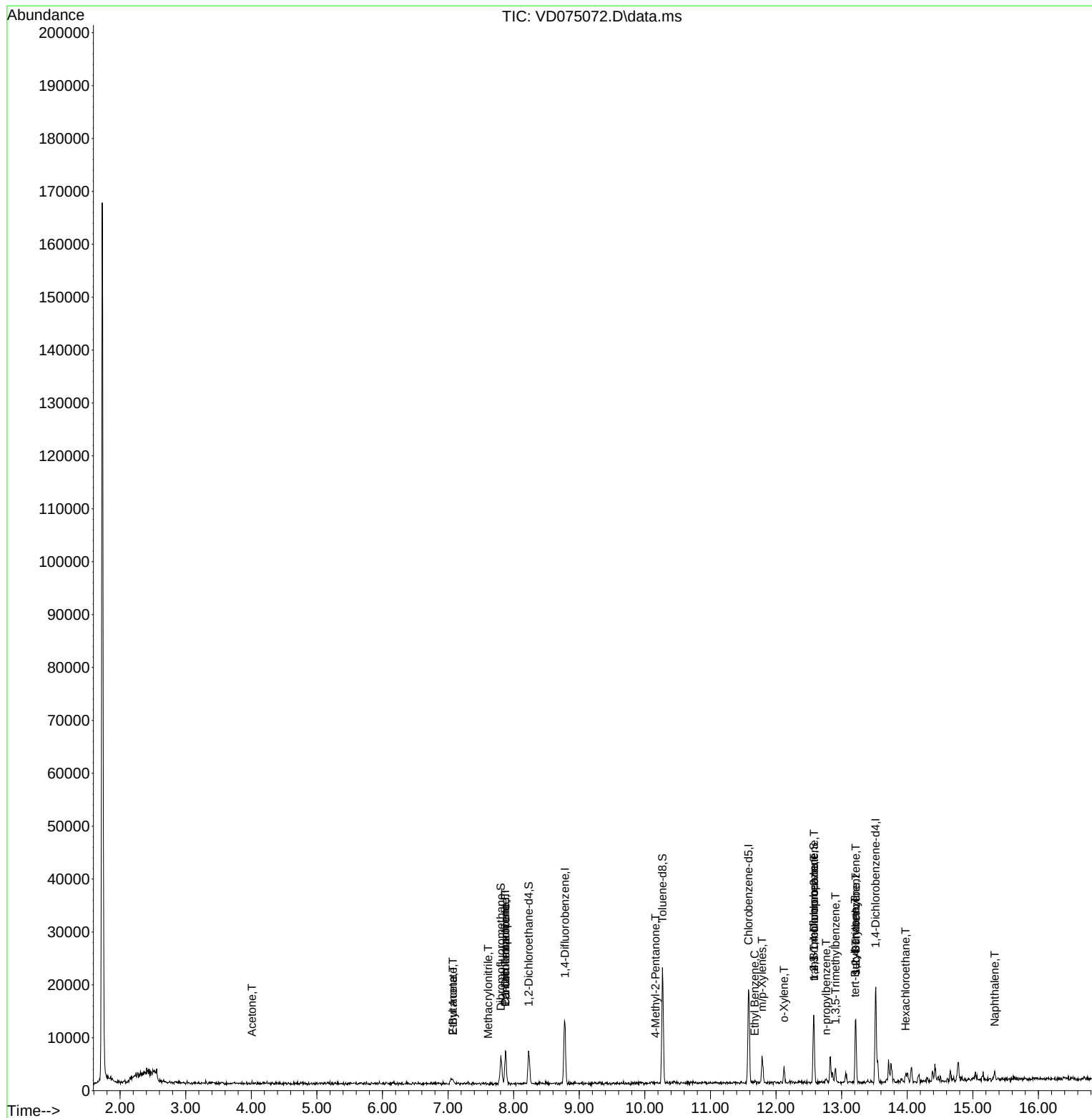
Internal Standards						
1) Pentafluorobenzene	7.875	168	5146	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	11439	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	11722	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	4689	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	4839	96.202	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	192.400%#
35) Dibromofluoromethane	7.804	113	3951	58.697	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	117.400%
50) Toluene-d8	10.269	98	14756	54.255	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	108.500%
62) 4-Bromofluorobenzene	12.575	95	5152	58.473	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	116.940%
Target Compounds						
						Qvalue
16) Acetone	4.010	43	75	5.741	ug/l	# 39
25) 2-Butanone	7.075	43	63	3.614	ug/l	# 39
36) 1,1-Dichloropropene	7.875	75	225	2.588	ug/l	# 40
37) Ethyl Acetate	7.075	43	63	1.434	ug/l	# 65
38) Carbon Tetrachloride	7.875	117	339	4.509	ug/l	# 13
41) Methacrylonitrile	7.610	41	55	2.013	ug/l	# 18
51) 4-Methyl-2-Pentanone	10.163	43	60	1.375	ug/l	# 31
67) Ethyl Benzene	11.675	91	648	1.654	ug/l	# 44
68) m/p-Xylenes	11.786	106	1848	12.439	ug/l	95
69) o-Xylene	12.122	106	995	6.963	ug/l	100
76) 1,2,3-Trichloropropane	12.580	75	2614	54.369	ug/l	# 100
78) n-propylbenzene	12.763	91	788	1.790	ug/l	# 52
80) 1,3,5-Trimethylbenzene	12.904	105	2016	6.954	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.580	75	2614	126.009	ug/l	# 19
83) tert-Butylbenzene	13.204	119	933	3.635	ug/l	# 75
84) 1,2,4-Trimethylbenzene	13.216	105	6934	24.590	ug/l	97
85) sec-Butylbenzene	13.216	105	6934	17.597	ug/l	# 56
90) Hexachloroethane	13.975	117	68	1.217	ug/l	# 15
95) Naphthalene	15.333	128	1672	9.202	ug/l	# 69

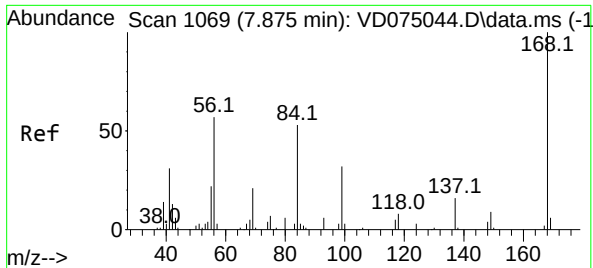
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122222S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 23 05:54:19 2022
Response via : Initial Calibration

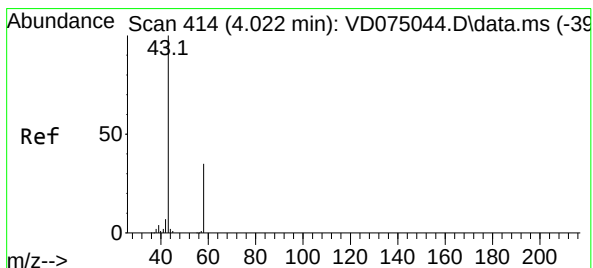
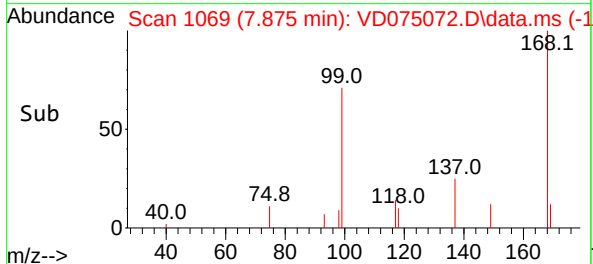
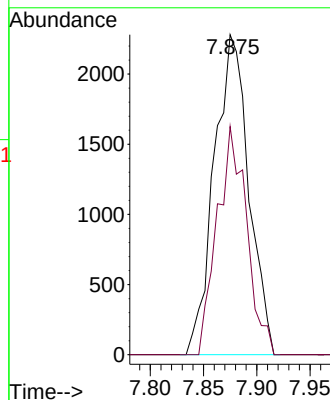
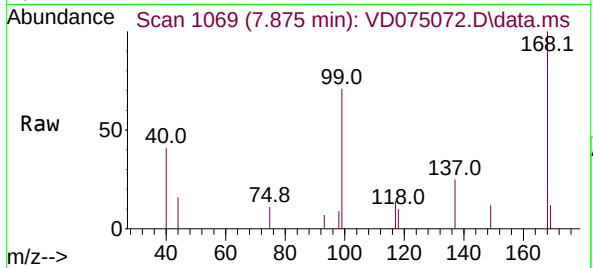




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

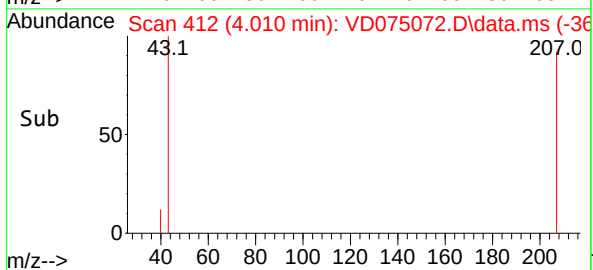
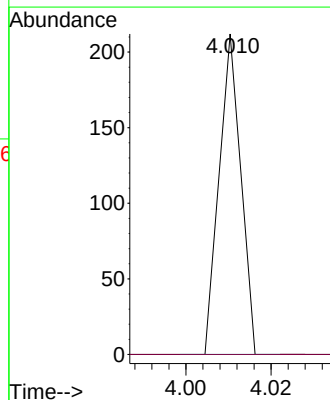
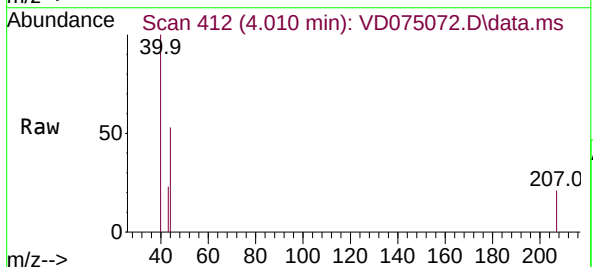
Instrument :
MSVOA_D
ClientSampleId :
72-12016

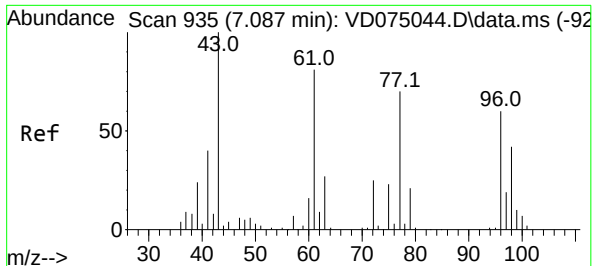
Tgt Ion:168 Resp: 5146
Ion Ratio Lower Upper
168 100
99 71.3 40.3 60.5#



#16
Acetone
Concen: 5.741 ug/l
RT: 4.010 min Scan# 412
Delta R.T. -0.012 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#





#25

2-Butanone

Concen: 3.614 ug/l

RT: 7.075 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

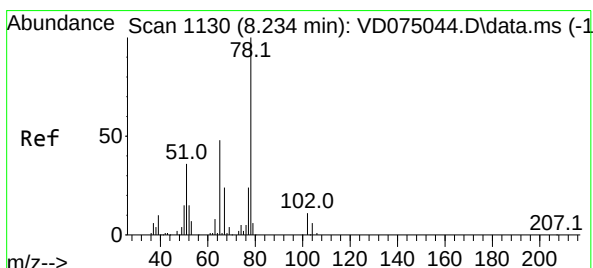
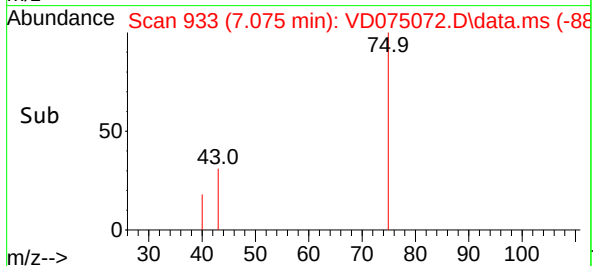
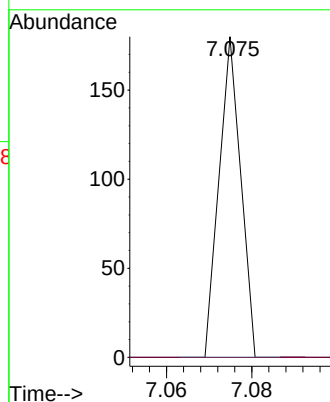
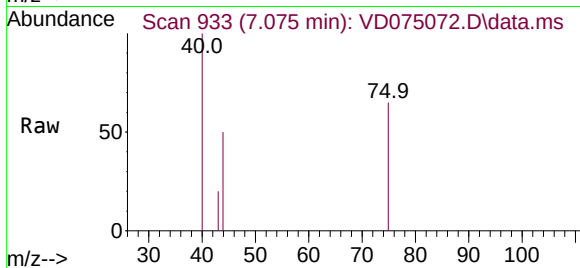
72-12016

Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

72 0.0 28.4 42.6#



#33

1,2-Dichloroethane-d4

Concen: 96.202 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD075072.D

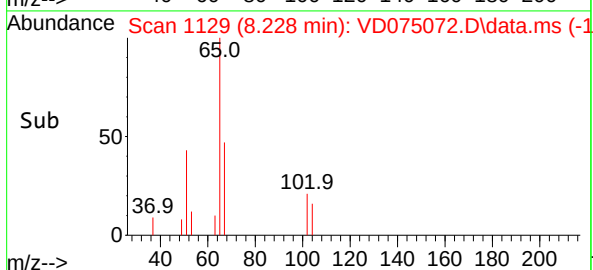
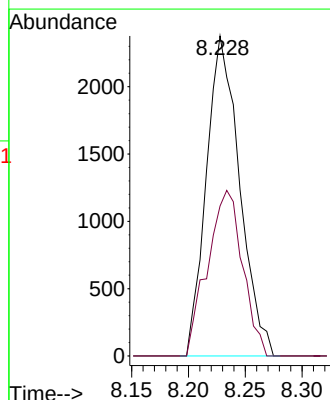
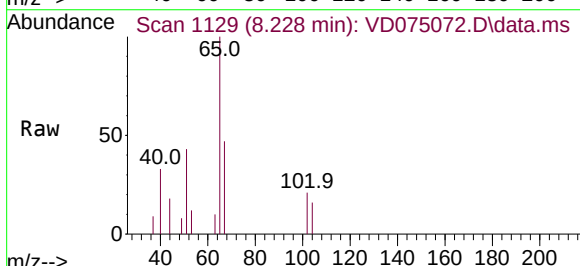
Acq: 28 Dec 2022 18:10

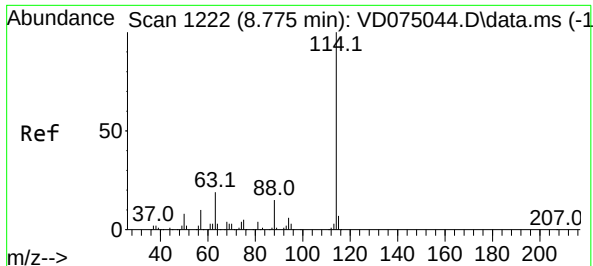
Tgt Ion: 65 Resp: 4839

Ion Ratio Lower Upper

65 100

67 54.5 0.0 111.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11439

Delta R.T. 0.006 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

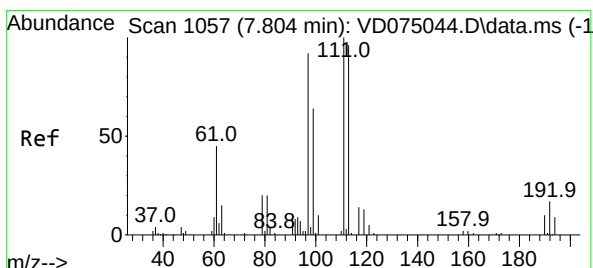
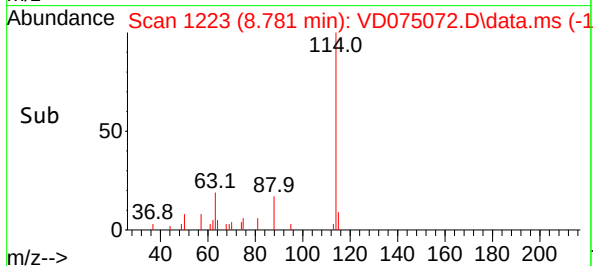
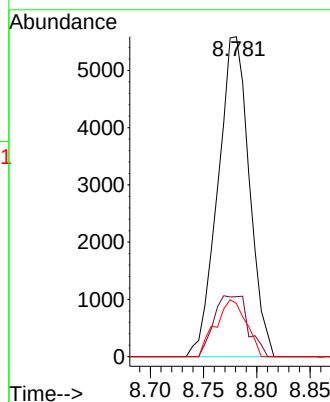
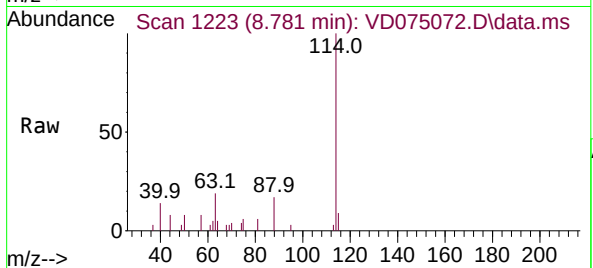
Tgt Ion:114 Resp: 11439

Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.8

88 16.6 0.0 27.8



#35

Dibromofluoromethane

Concen: 58.697 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

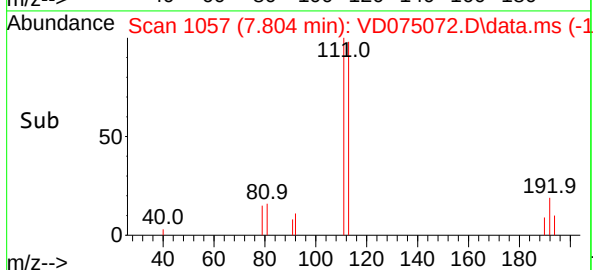
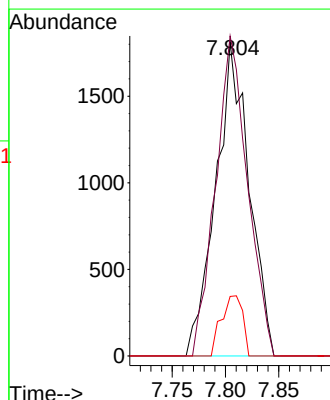
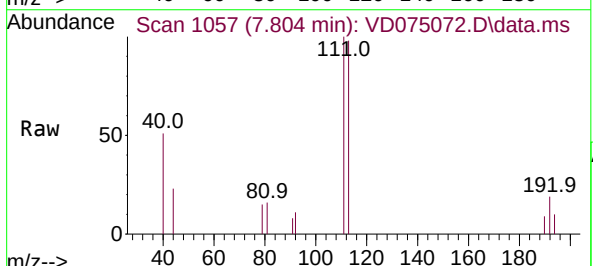
Tgt Ion:113 Resp: 3951

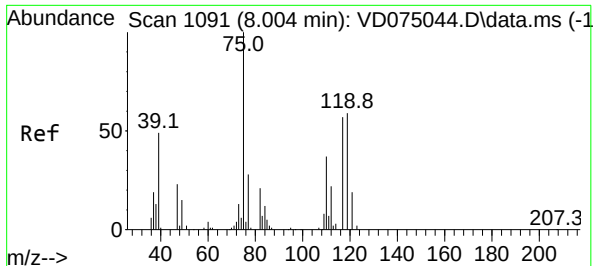
Ion Ratio Lower Upper

113 100

111 97.7 82.1 123.1

192 12.2 15.1 22.7#





#36

1,1-Dichloropropene

Concen: 2.588 ug/l

RT: 7.875 min Scan# 1091

Delta R.T. -0.135 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

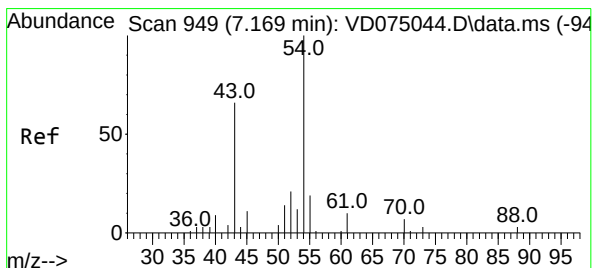
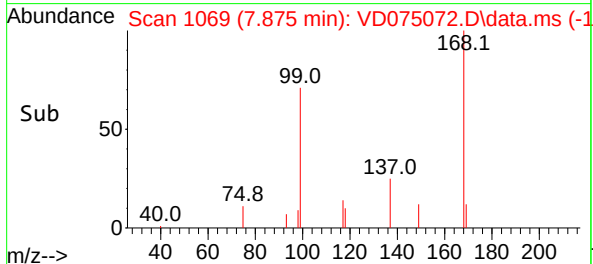
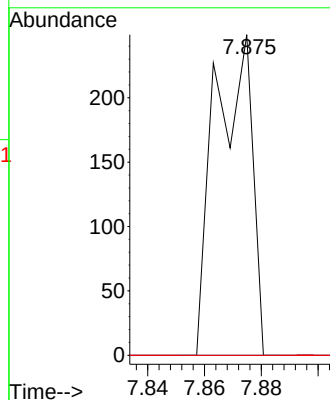
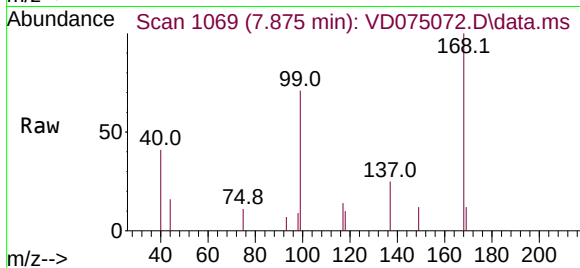
Tgt Ion: 75 Resp: 225

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.434 ug/l

RT: 7.075 min Scan# 933

Delta R.T. -0.094 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

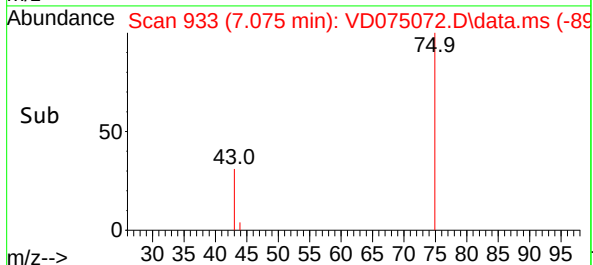
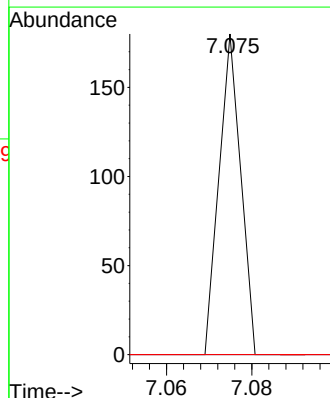
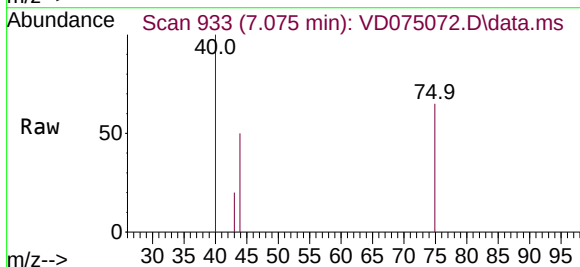
Tgt Ion: 43 Resp: 63

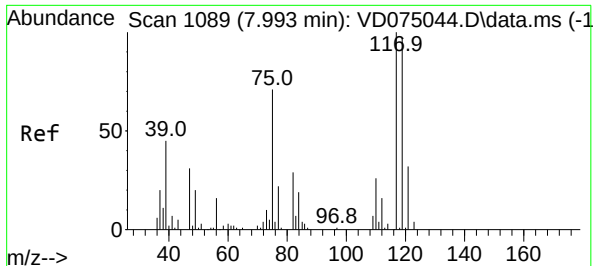
Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

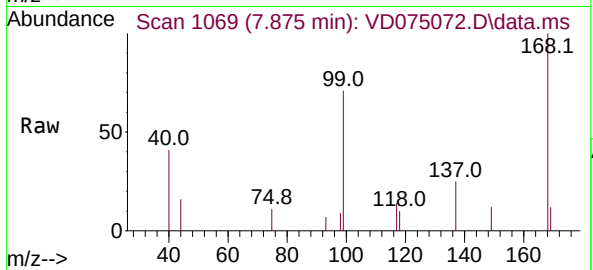
70 0.0 10.2 15.4#



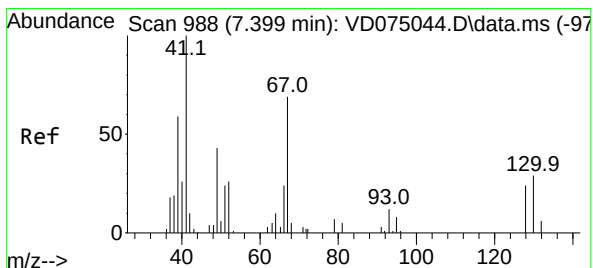
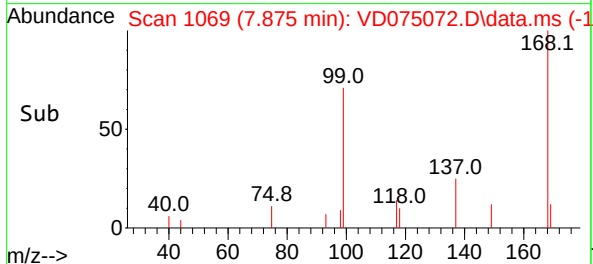
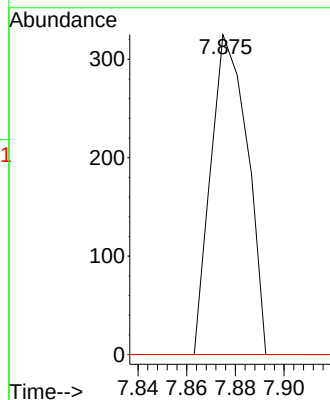


#38
Carbon Tetrachloride
Concen: 4.509 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.118 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Instrument :
MSVOA_D
ClientSampleId :
72-12016

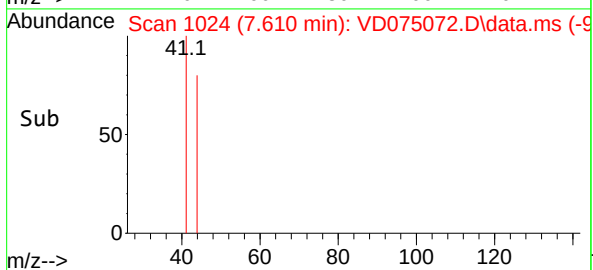
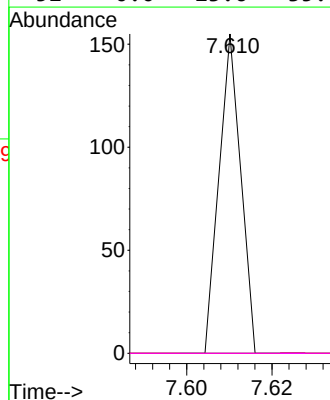
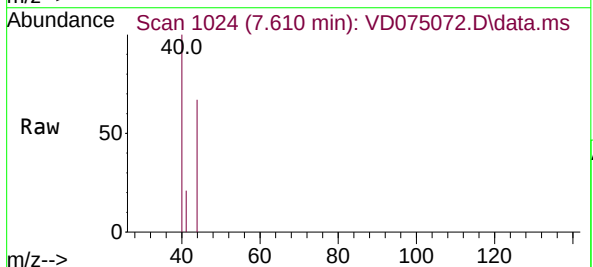


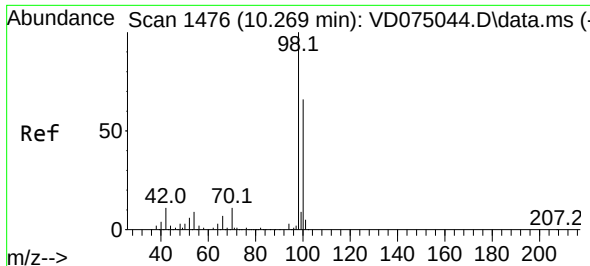
Tgt Ion:117 Resp: 339
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 25.4 38.0#



#41
Methacrylonitrile
Concen: 2.013 ug/l
RT: 7.610 min Scan# 1024
Delta R.T. 0.205 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion: 41 Resp: 55
Ion Ratio Lower Upper
41 100
39 0.0 44.8 67.2#
67 0.0 69.6 104.4#
52 0.0 23.6 35.4#

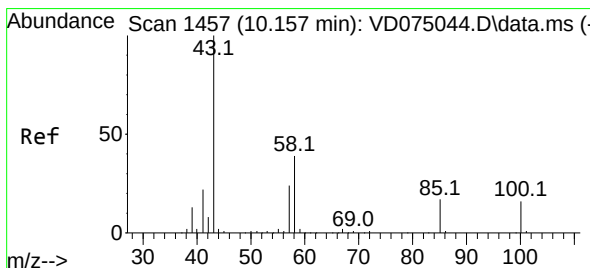
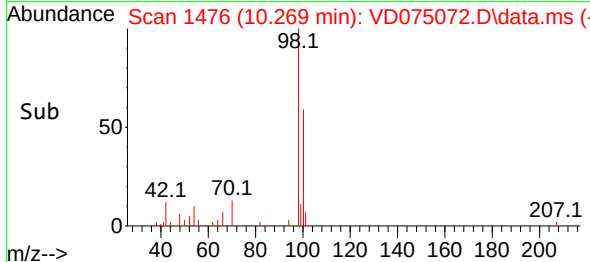
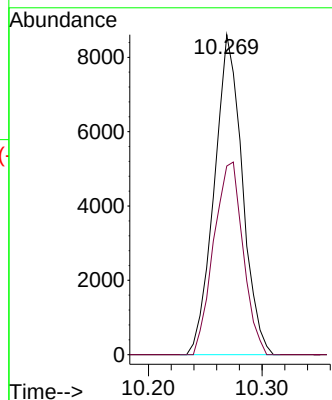
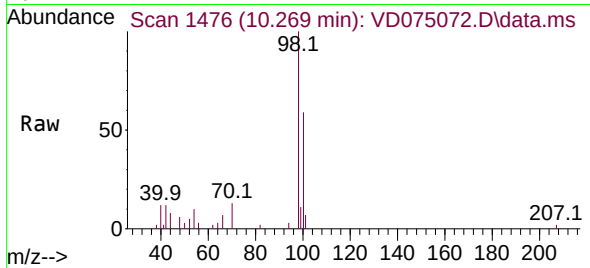




#50
Toluene-d8
Concen: 54.255 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

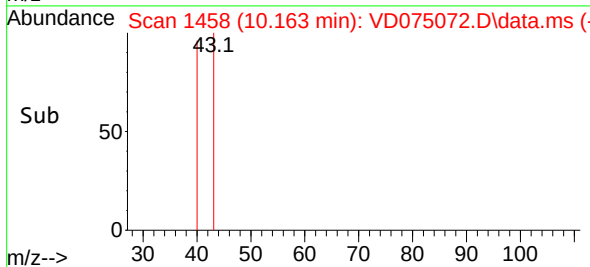
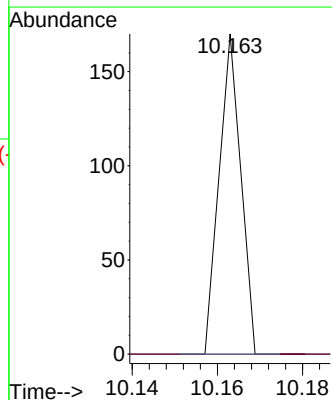
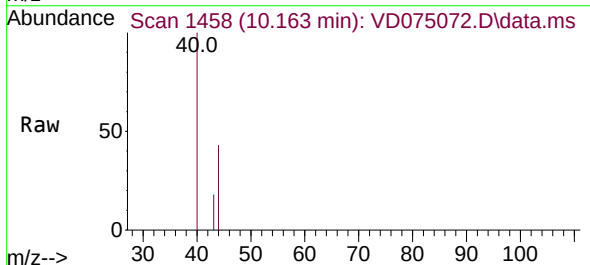
Instrument :
MSVOA_D
ClientSampleId :
72-12016

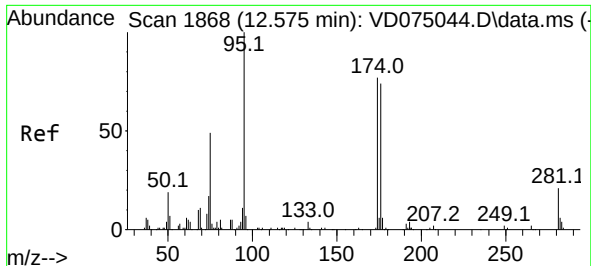
Tgt Ion: 98 Resp: 14756
Ion Ratio Lower Upper
98 100
100 63.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.375 ug/l
RT: 10.163 min Scan# 1458
Delta R.T. 0.006 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 35.7 53.5#

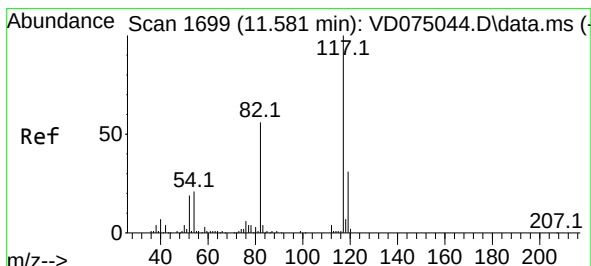
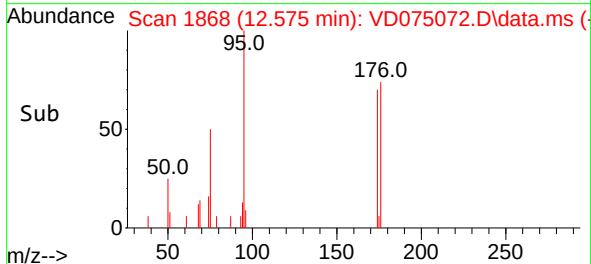
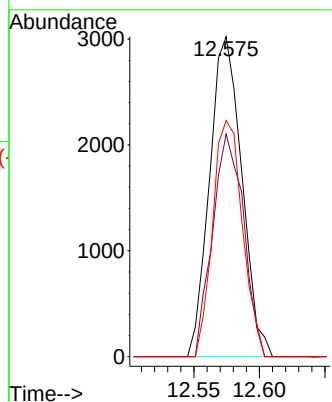
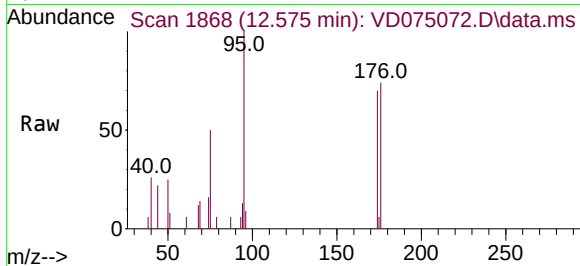




#62
4-Bromofluorobenzene
Concen: 58.473 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

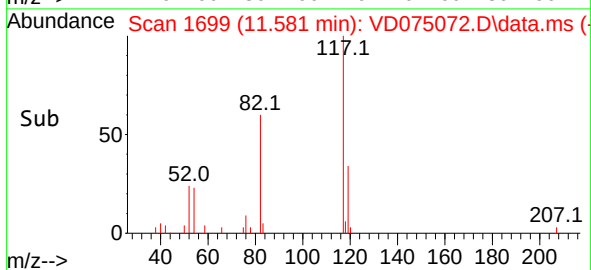
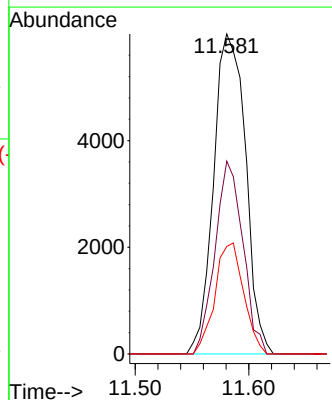
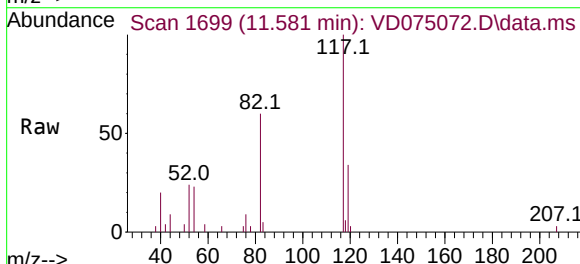
Instrument :
MSVOA_D
ClientSampleId :
72-12016

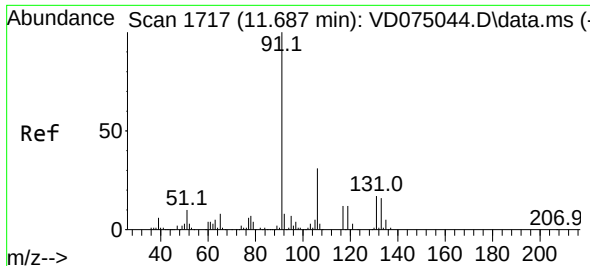
Tgt Ion:	95	Resp:	5152
Ion	Ratio	Lower	Upper
95	100		
174	66.8	0.0	171.2
176	68.3	0.0	165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion:	117	Resp:	11722
Ion	Ratio	Lower	Upper
117	100		
82	60.2	40.9	61.3
119	33.6	25.5	38.3

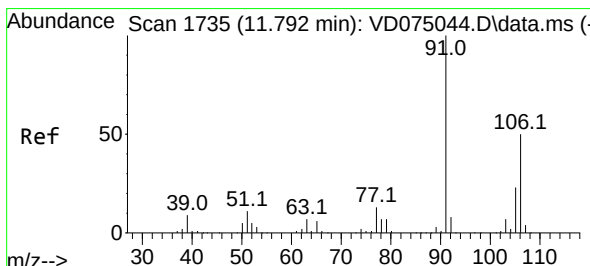
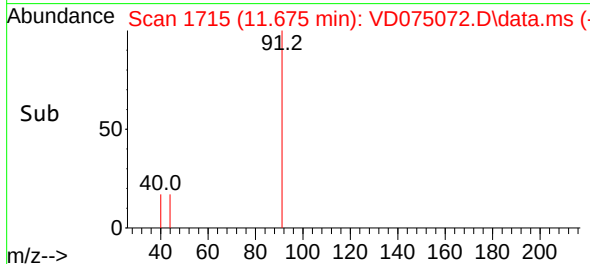
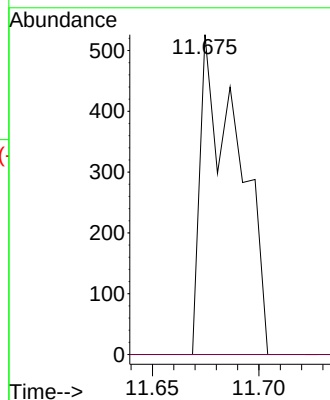
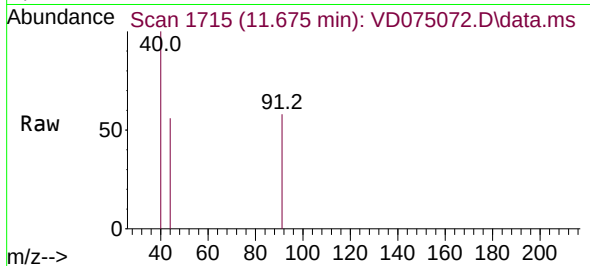




#67
Ethyl Benzene
Concen: 1.654 ug/l
RT: 11.675 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

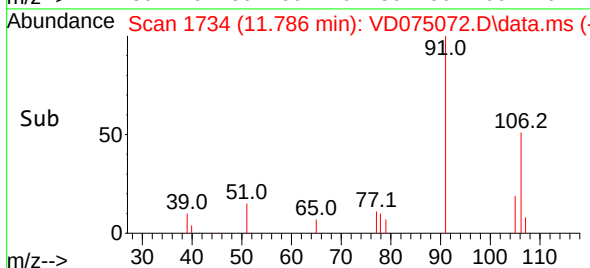
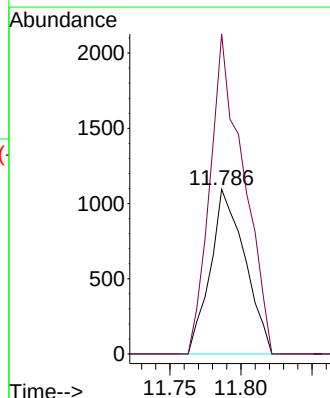
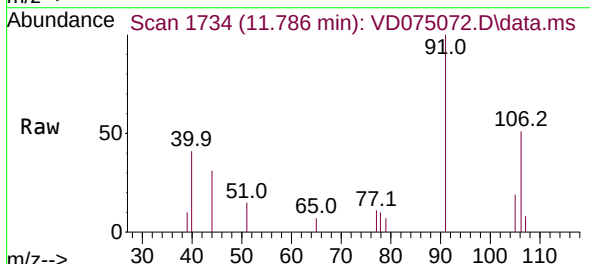
Instrument :
MSVOA_D
ClientSampleId :
72-12016

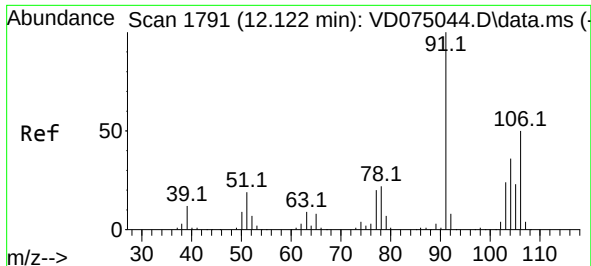
Tgt Ion: 91 Resp: 648
Ion Ratio Lower Upper
91 100
106 0.0 24.9 37.3#



#68
m/p-Xylenes
Concen: 12.439 ug/l
RT: 11.786 min Scan# 1734
Delta R.T. -0.007 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion: 106 Resp: 1848
Ion Ratio Lower Upper
106 100
91 188.5 156.3 234.5

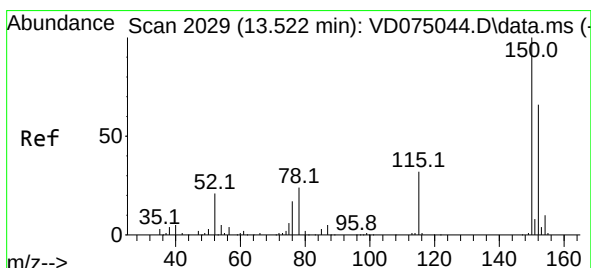
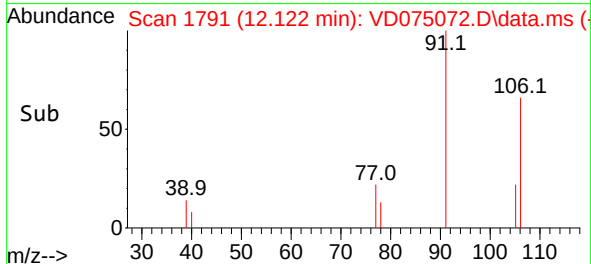
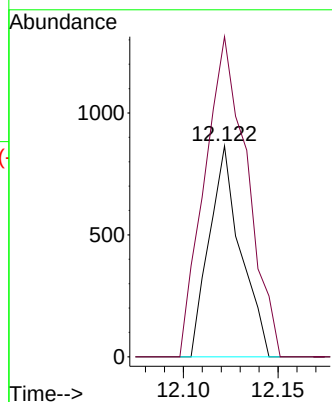
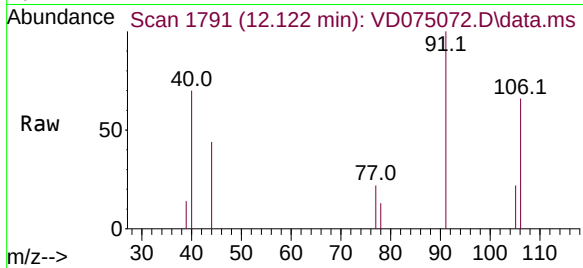




#69
o-Xylene
Concen: 6.963 ug/l
RT: 12.122 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

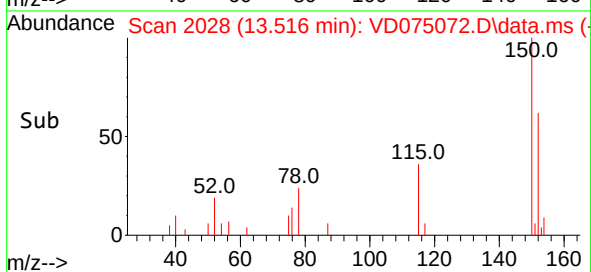
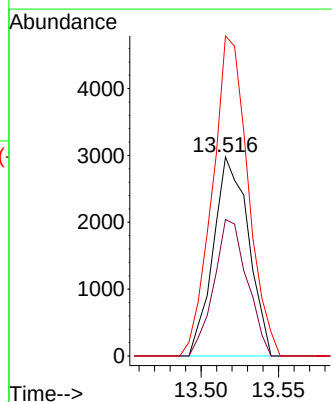
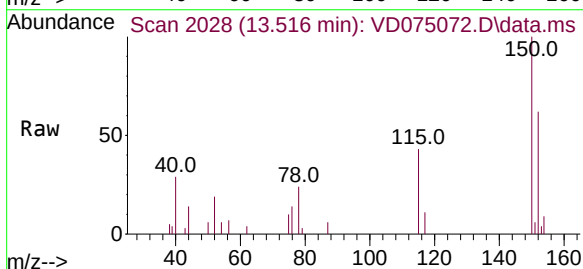
Instrument :
MSVOA_D
ClientSampleId :
72-12016

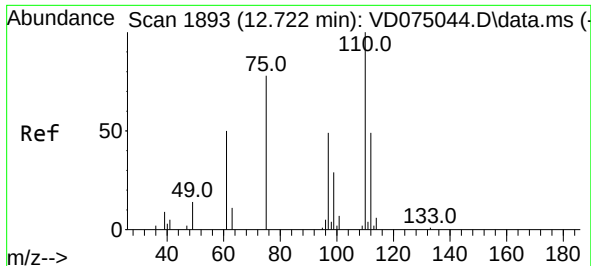
Tgt Ion:106 Resp: 995
Ion Ratio Lower Upper
106 100
91 205.7 102.7 308.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion:152 Resp: 4689
Ion Ratio Lower Upper
152 100
115 64.8 28.8 86.5
150 162.9 0.0 354.2

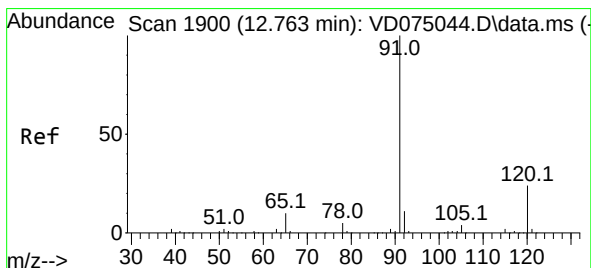
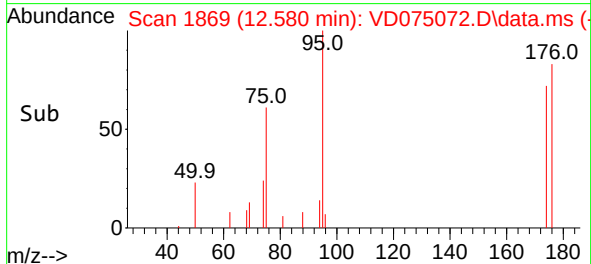
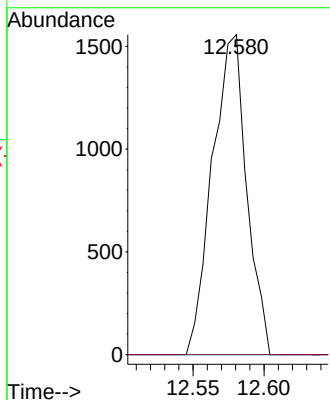
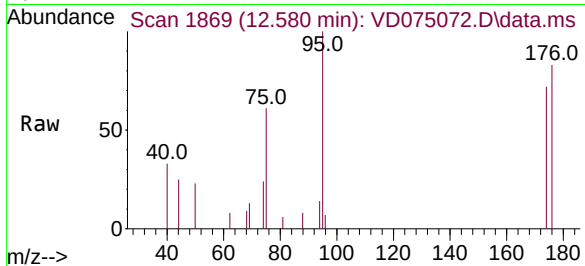




#76
1,2,3-Trichloropropane
Concen: 54.369 ug/l
RT: 12.580 min Scan# 1869
Delta R.T. -0.142 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

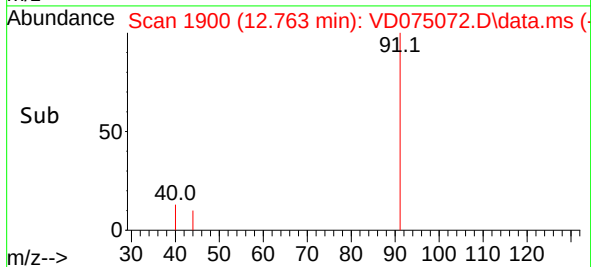
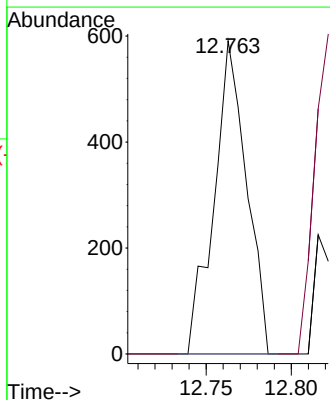
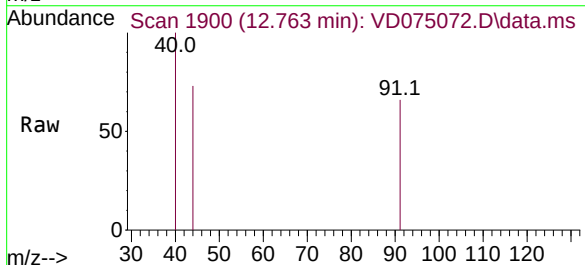
Instrument :
MSVOA_D
ClientSampleId :
72-12016

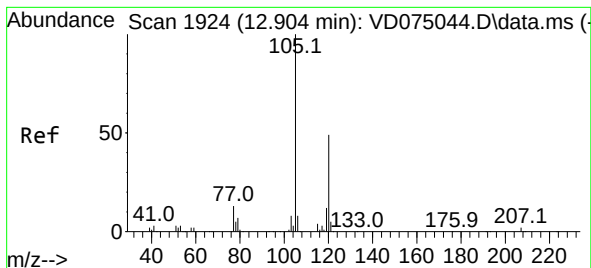
Tgt Ion: 75 Resp: 2614
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.790 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VD075072.D
Acq: 28 Dec 2022 18:10

Tgt Ion: 91 Resp: 788
Ion Ratio Lower Upper
91 100
120 0.0 11.6 34.7#





#80

1,3,5-Trimethylbenzene

Concen: 6.954 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

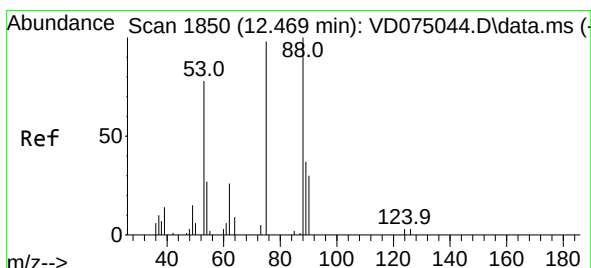
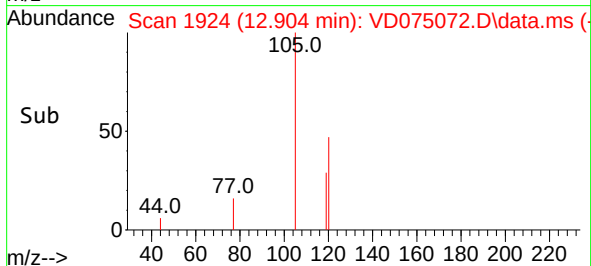
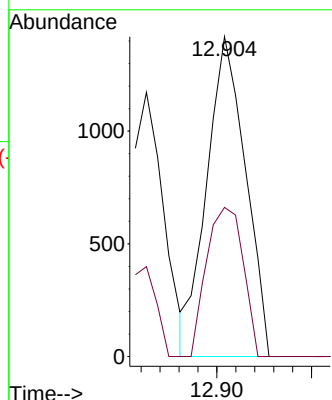
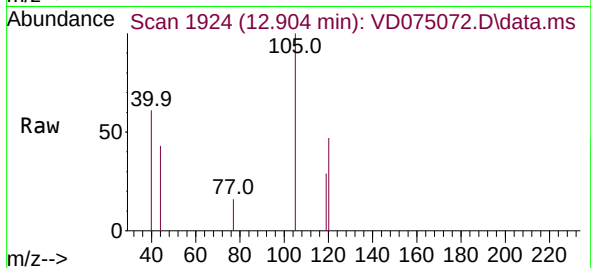
72-12016

Tgt Ion:105 Resp: 2016

Ion Ratio Lower Upper

105 100

120 44.2 25.1 75.3



#81

trans-1,4-Dichloro-2-butene

Concen: 126.009 ug/l

RT: 12.580 min Scan# 1869

Delta R.T. 0.111 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

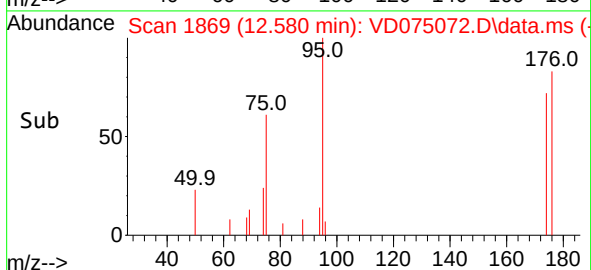
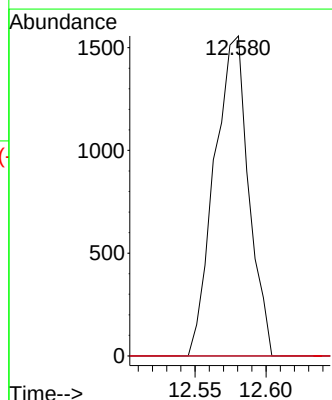
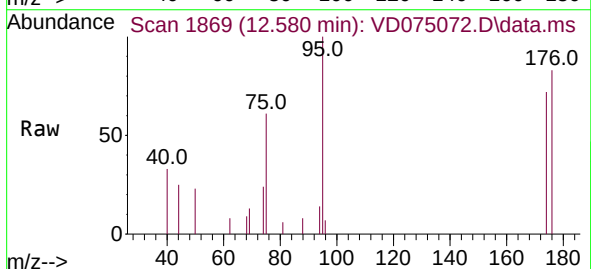
Tgt Ion: 75 Resp: 2614

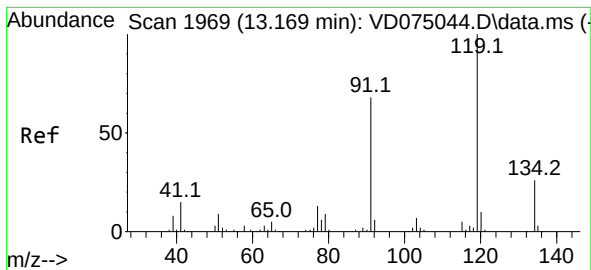
Ion Ratio Lower Upper

75 100

53 0.0 60.0 90.0#

89 0.0 37.4 56.0#





#83

tert-Butylbenzene

Concen: 3.635 ug/l

RT: 13.204 min Scan# 1969

Delta R.T. 0.035 min

Lab File: VD075072.D

Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016

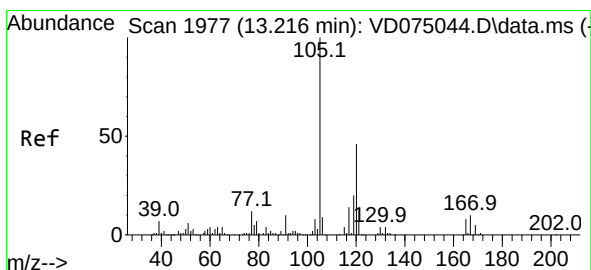
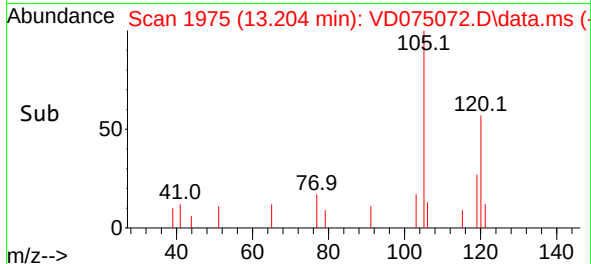
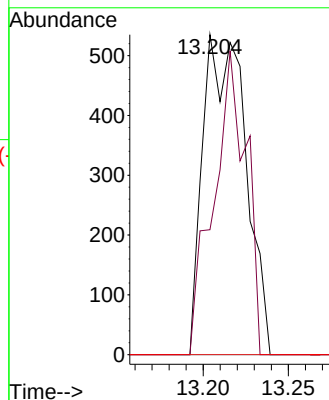
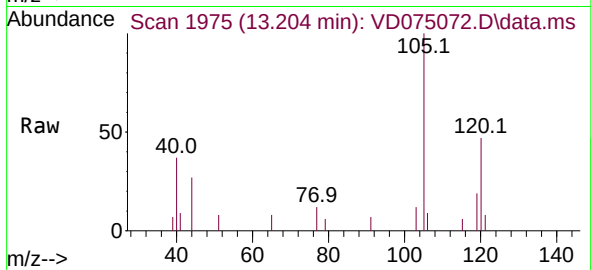
Tgt Ion:119 Resp: 933

Ion Ratio Lower Upper

119 100

91 72.8 31.2 93.6

134 0.0 13.8 41.3#



#84

1,2,4-Trimethylbenzene

Concen: 24.590 ug/l

RT: 13.216 min Scan# 1977

Delta R.T. 0.006 min

Lab File: VD075072.D

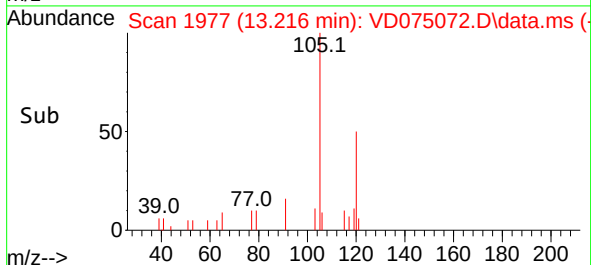
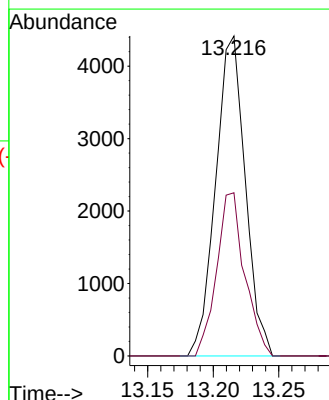
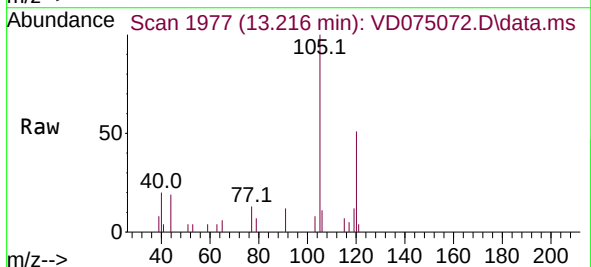
Acq: 28 Dec 2022 18:10

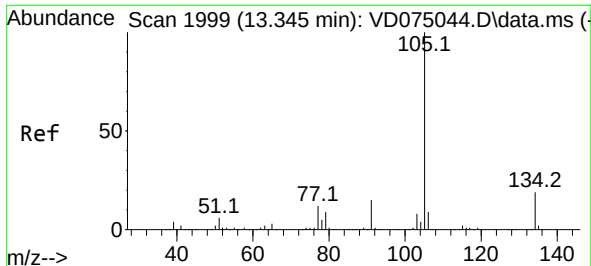
Tgt Ion:105 Resp: 6934

Ion Ratio Lower Upper

105 100

120 48.3 23.1 69.3

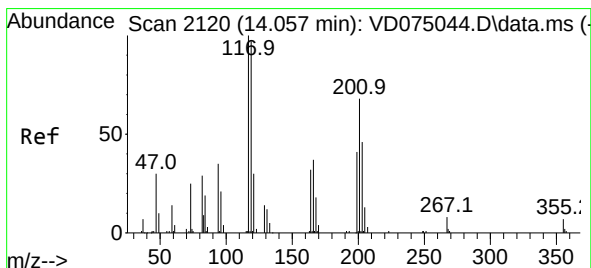
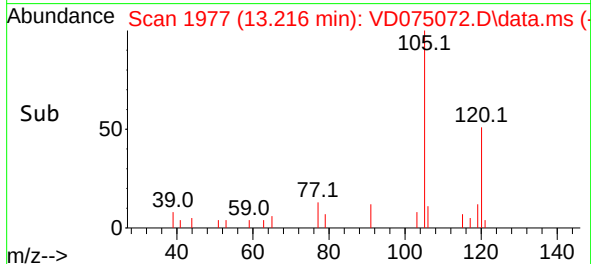
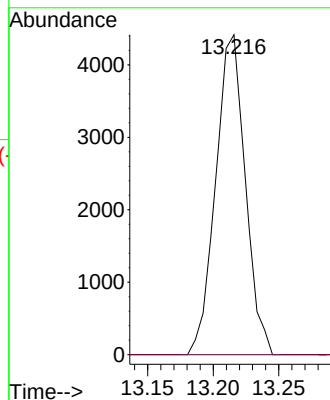
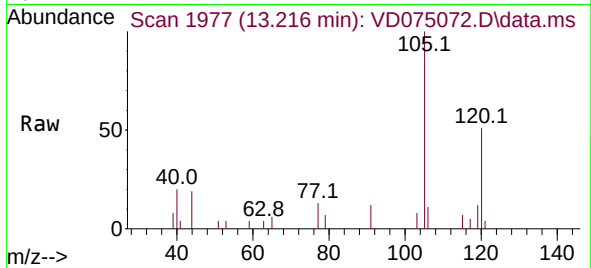




#85
 sec-Butylbenzene
 Concen: 17.597 ug/l
 RT: 13.216 min Scan# 1999
 Delta R.T. -0.129 min
 Lab File: VD075072.D
 Acq: 28 Dec 2022 18:10

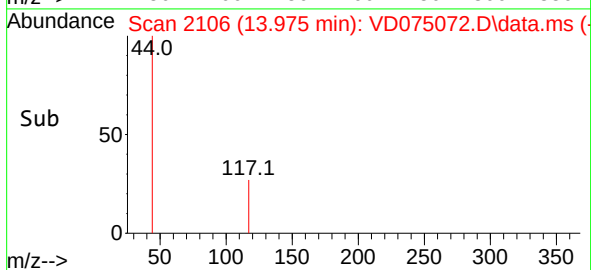
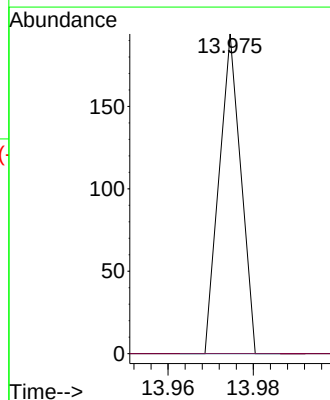
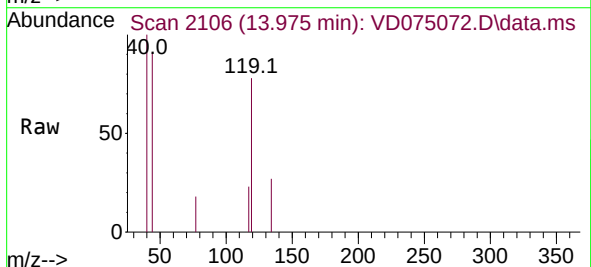
Instrument :
 MSVOA_D
 ClientSampleId :
 72-12016

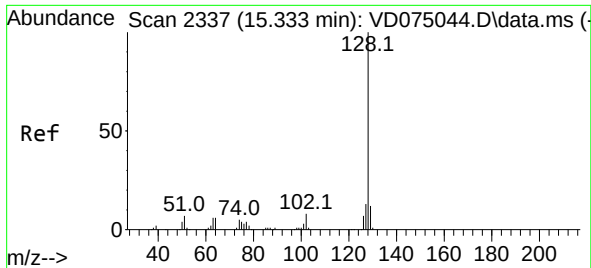
Tgt Ion:105 Resp: 6934
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#90
 Hexachloroethane
 Concen: 1.217 ug/l
 RT: 13.975 min Scan# 2106
 Delta R.T. -0.076 min
 Lab File: VD075072.D
 Acq: 28 Dec 2022 18:10

Tgt Ion:117 Resp: 68
 Ion Ratio Lower Upper
 117 100
 201 0.0 35.1 105.3#





#95

Naphthalene

Concen: 9.202 ug/l

RT: 15.333 min Scan# 21

Delta R.T. -0.001 min

Lab File: VD075072.D

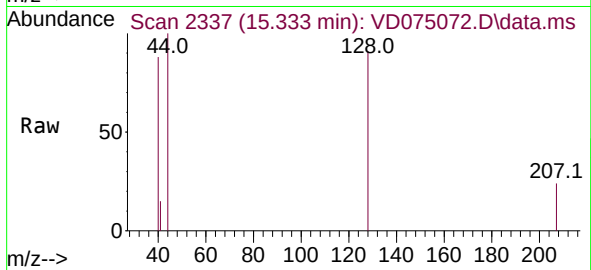
Acq: 28 Dec 2022 18:10

Instrument :

MSVOA_D

ClientSampleId :

72-12016



Tgt Ion:128 Resp: 1672

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.7 13.1#

