

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121522\
 Data File : VD075029.D
 Acq On : 15 Dec 2022 15:31
 Operator : KP/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Dec 16 05:33:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D121522S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 16 05:30:45 2022
 Response via : Initial Calibration

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

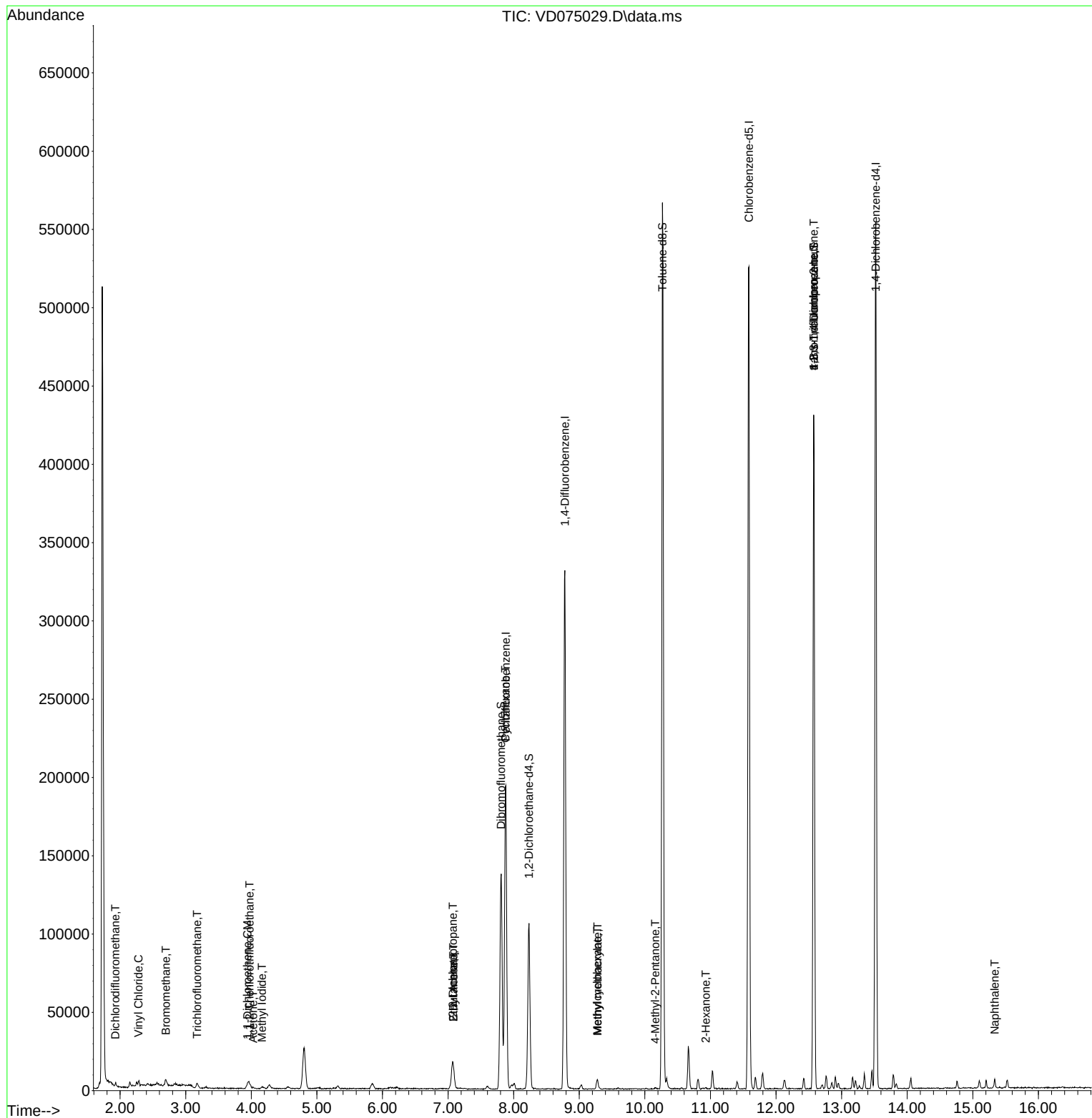
Internal Standards						
1) Pentafluorobenzene	7.881	168	153942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	318078	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.587	117	337859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	156714	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	80507	61.248	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.500%	
35) Dibromofluoromethane	7.810	113	102736	49.795	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.600%	
50) Toluene-d8	10.269	98	406823	54.507	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 109.020%	
62) 4-Bromofluorobenzene	12.575	95	135753	61.567	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 123.140%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.928	85	1590	1.588	ug/l	86
3) Chloromethane	2.146	50	2350	Below Cal	#	83
4) Vinyl Chloride	2.281	62	2214	1.107	ug/l	93
5) Bromomethane	2.699	94	2729	1.663	ug/l #	73
7) Trichlorofluoromethane	3.175	101	3414	1.366	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.975	101	2580	1.575	ug/l	98
10) Methyl Iodide	4.164	142	1788	1.019	ug/l #	77
12) 1,1-Dichloroethene	3.940	96	1954	1.278	ug/l #	83
16) Acetone	4.028	43	967	3.152	ug/l #	47
17) Carbon Disulfide	4.275	76	5225	Below Cal	#	75
20) Methylene Chloride	4.811	84	22193	Below Cal		95
25) 2-Butanone	7.081	43	1422	3.778	ug/l #	39
26) 2,2-Dichloropropane	7.075	77	3095	1.170	ug/l #	67
31) Cyclohexane	7.875	56	5221	2.655	ug/l #	37
37) Ethyl Acetate	7.081	43	1422	1.552	ug/l #	1
39) Methylcyclohexane	9.275	83	3074	1.156	ug/l #	81
48) Methyl methacrylate	9.281	41	1416	1.917	ug/l #	64
51) 4-Methyl-2-Pentanone	10.157	43	916	1.133	ug/l #	77
59) 2-Hexanone	10.928	43	727	1.248	ug/l	91
76) 1,2,3-Trichloropropane	12.575	75	68046	52.128	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	68046	139.317	ug/l #	19
95) Naphthalene	15.334	128	5508	1.149	ug/l #	90

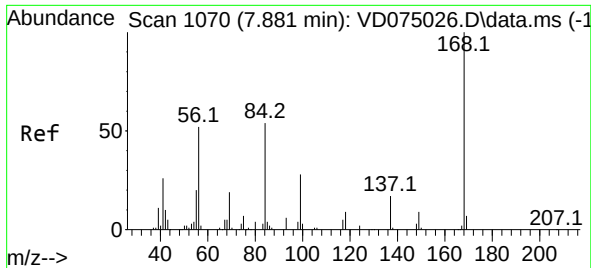
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 16 05:30:45 2022
Response via : Initial Calibration

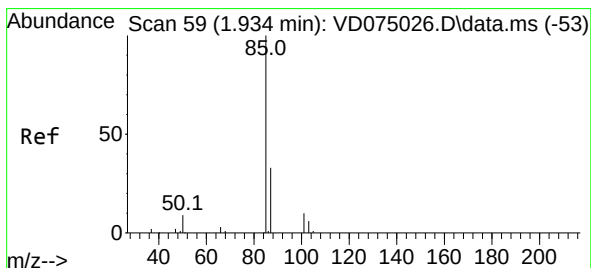
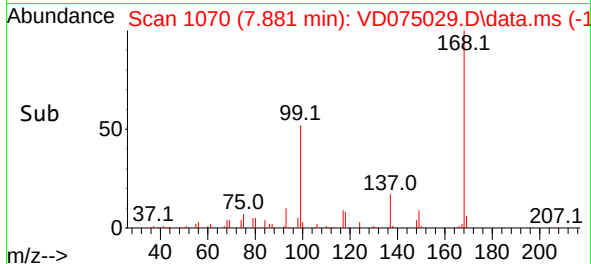
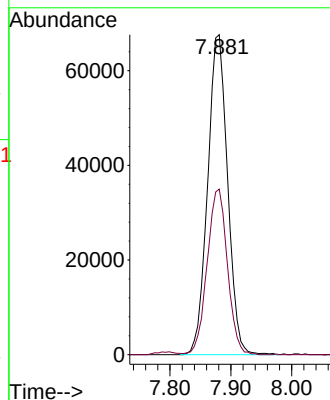
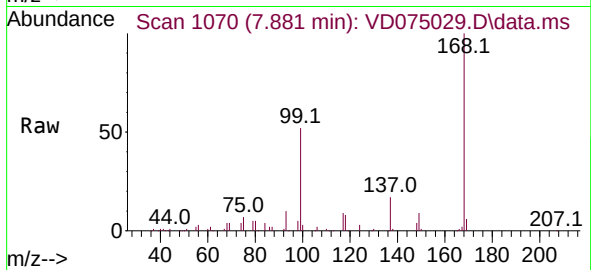




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

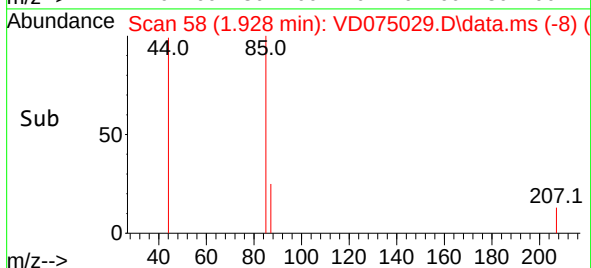
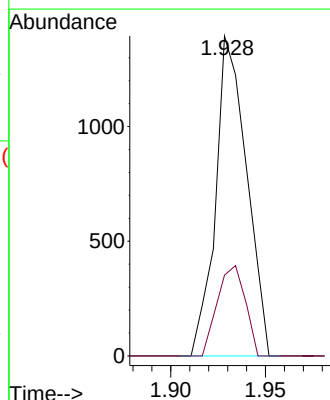
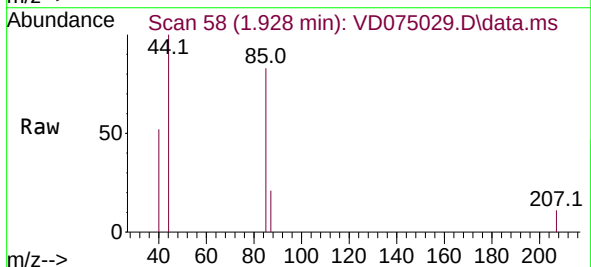
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MSVOA_D
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VIBLK

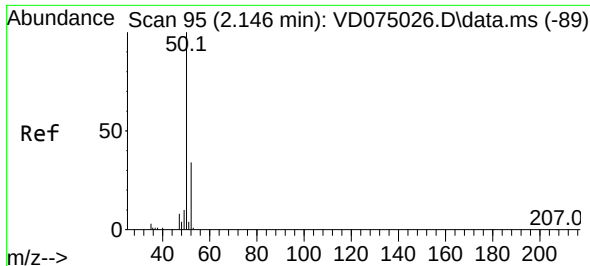
Tgt Ion:168 Resp: 153942
Ion Ratio Lower Upper
168 100
99 51.8 40.3 60.5



#2
Dichlorodifluoromethane
Concen: 1.588 ug/l
RT: 1.928 min Scan# 58
Delta R.T. -0.006 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion: 85 Resp: 1590
Ion Ratio Lower Upper
85 100
87 25.2 16.5 49.5

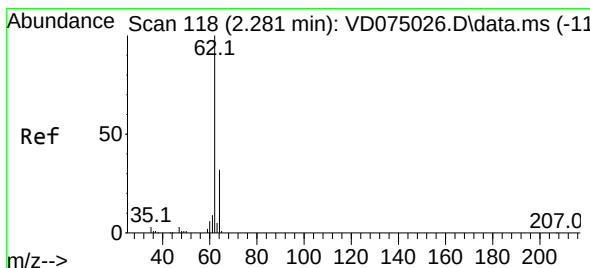
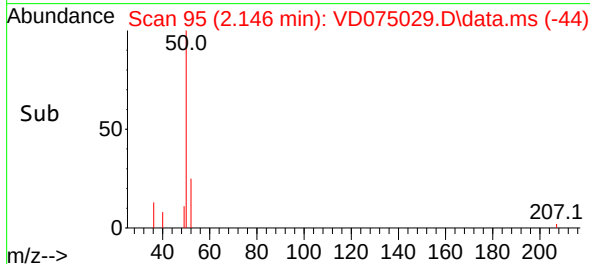
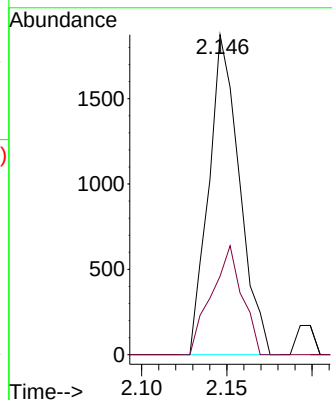
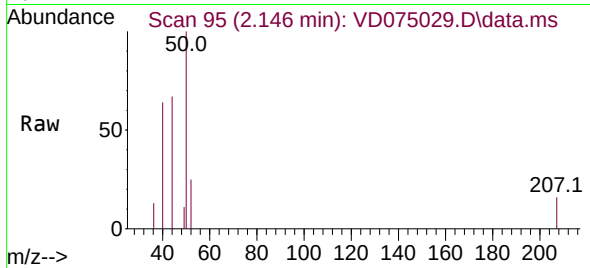




#3
Chloromethane
Concen: Below Cal
RT: 2.146 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

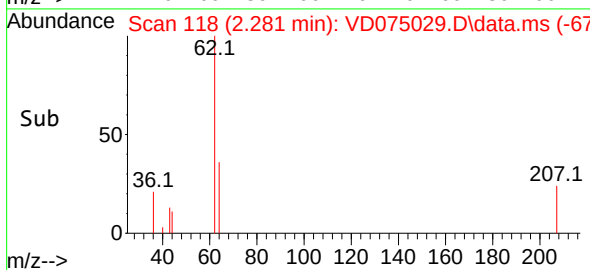
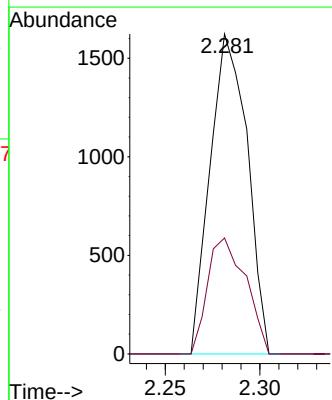
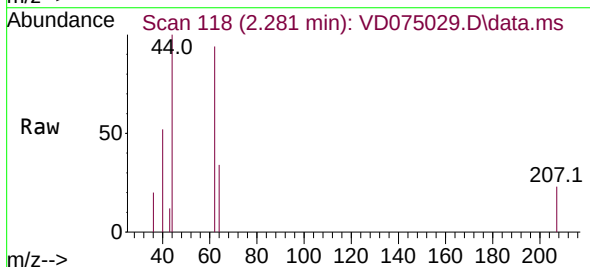
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

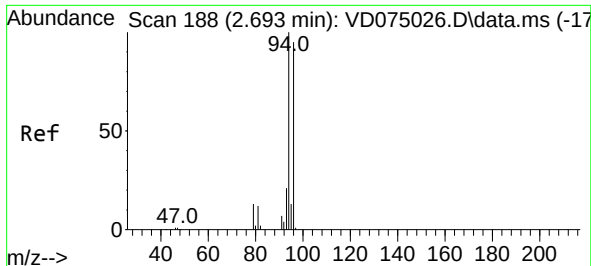
Tgt Ion: 50 Resp: 2350
Ion Ratio Lower Upper
50 100
52 24.5 27.2 40.8#



#4
Vinyl Chloride
Concen: 1.107 ug/l
RT: 2.281 min Scan# 118
Delta R.T. -0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion: 62 Resp: 2214
Ion Ratio Lower Upper
62 100
64 36.2 25.8 38.6

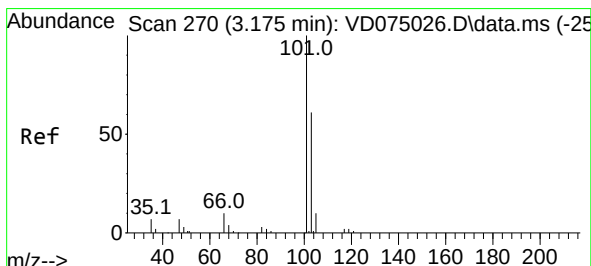
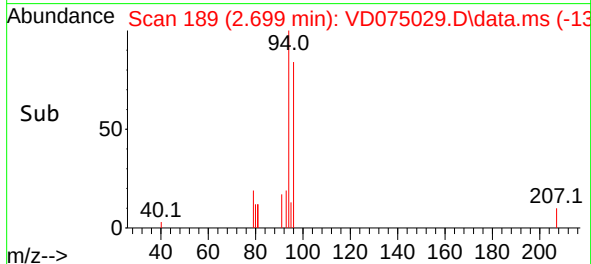
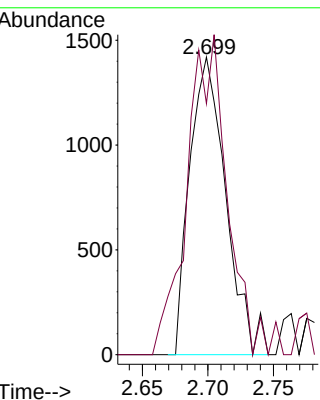
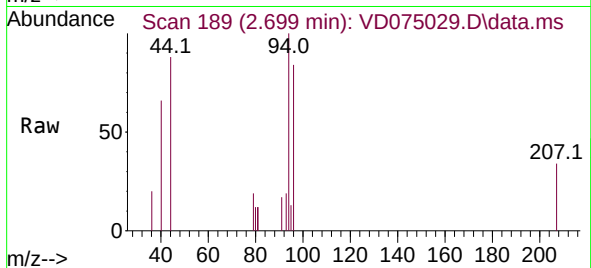




#5
Bromomethane
Concen: 1.663 ug/l
RT: 2.699 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

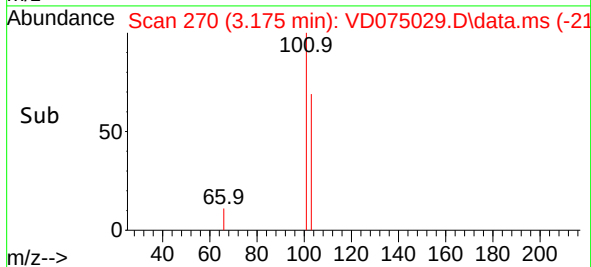
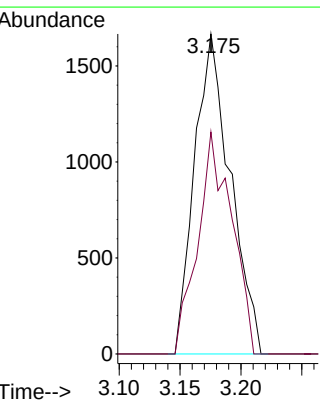
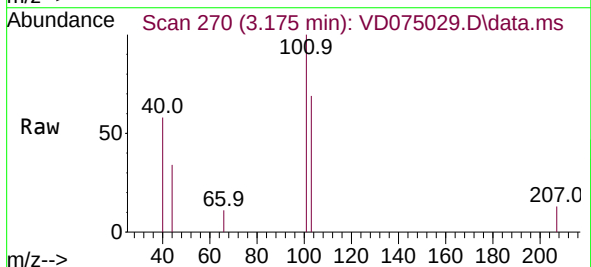
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

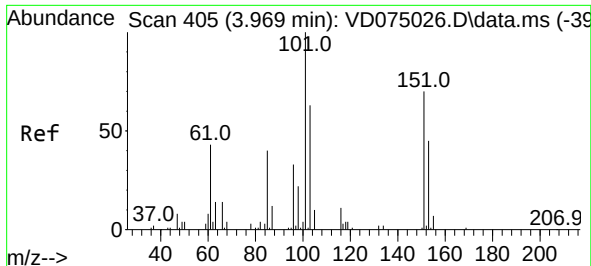
Tgt Ion: 94 Resp: 2729
Ion Ratio Lower Upper
94 100
96 120.2 75.2 112.8#



#7
Trichlorofluoromethane
Concen: 1.366 ug/l
RT: 3.175 min Scan# 270
Delta R.T. -0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion:101 Resp: 3414
Ion Ratio Lower Upper
101 100
103 69.3 49.1 73.7

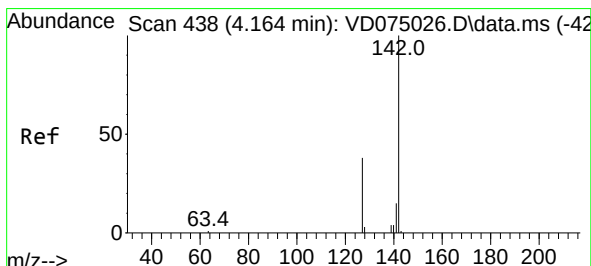
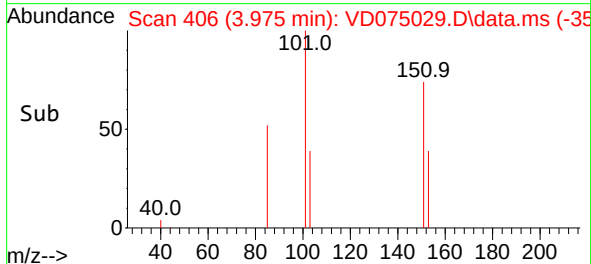
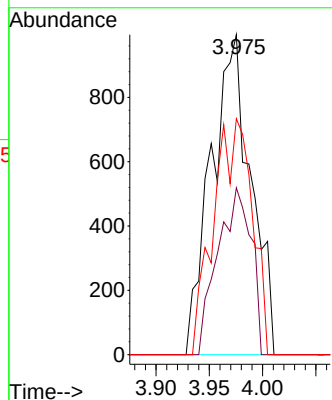
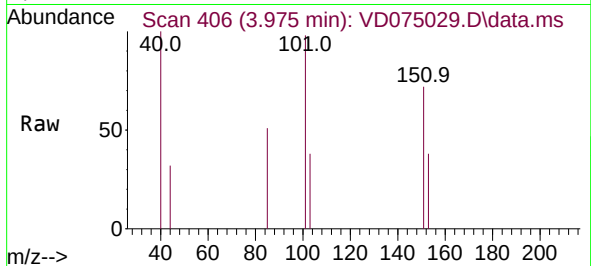




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.575 ug/l
RT: 3.975 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

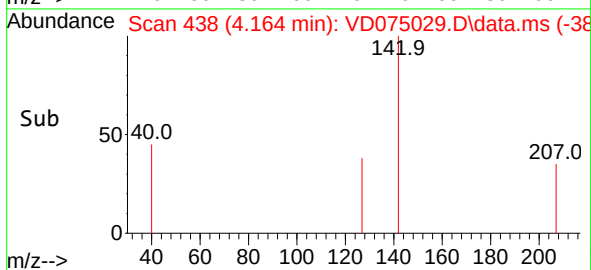
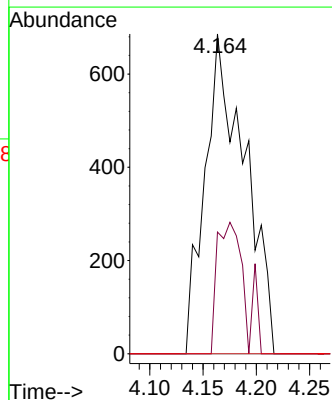
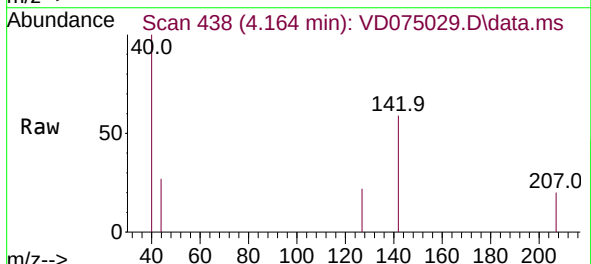
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

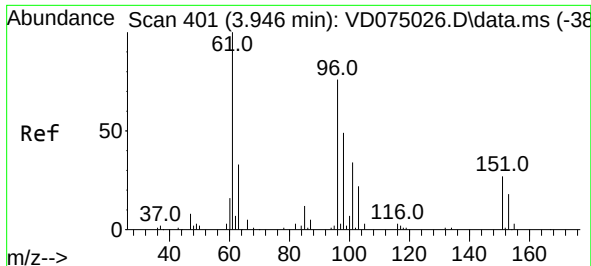
Tgt Ion:101 Resp: 2580
Ion Ratio Lower Upper
101 100
85 44.0 33.4 50.0
151 72.1 58.9 88.3



#10
Methyl Iodide
Concen: 1.019 ug/l
RT: 4.164 min Scan# 438
Delta R.T. -0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion:142 Resp: 1788
Ion Ratio Lower Upper
142 100
127 28.1 31.4 47.2#
141 0.0 11.4 17.2#





#12

1,1-Dichloroethene

Concen: 1.278 ug/l

RT: 3.940 min Scan# 401

Delta R.T. -0.006 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

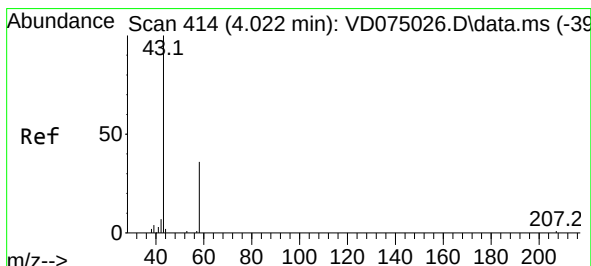
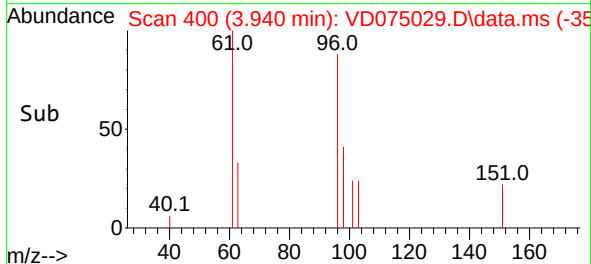
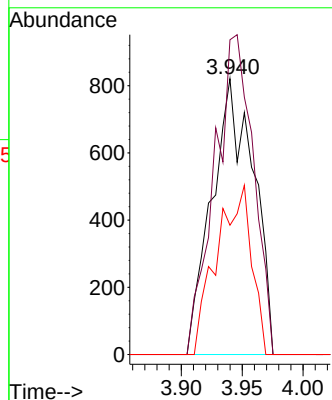
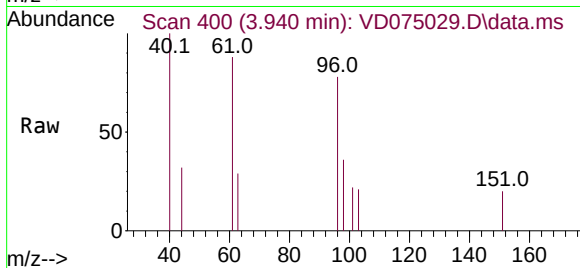
Tgt Ion: 96 Resp: 1954

Ion Ratio Lower Upper

96 100

61 114.1 104.9 157.3

98 46.9 51.8 77.8#



#16

Acetone

Concen: 3.152 ug/l

RT: 4.028 min Scan# 415

Delta R.T. 0.006 min

Lab File: VD075029.D

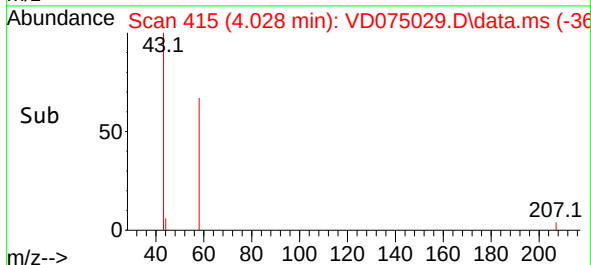
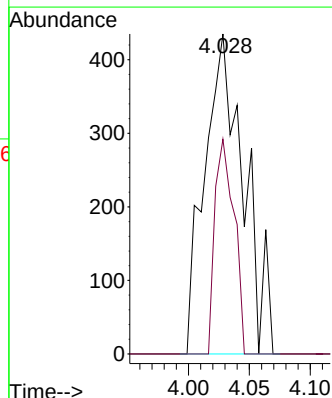
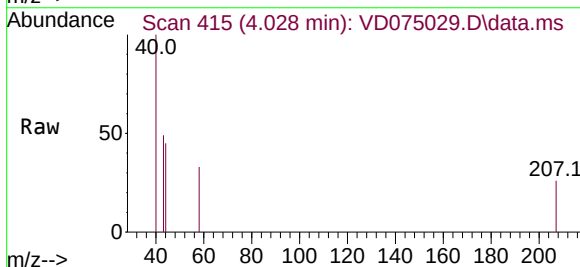
Acq: 15 Dec 2022 15:31

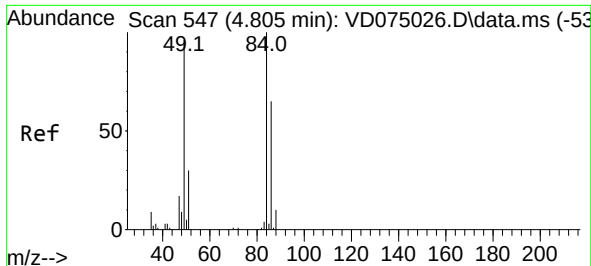
Tgt Ion: 43 Resp: 967

Ion Ratio Lower Upper

43 100

58 67.1 28.6 43.0#

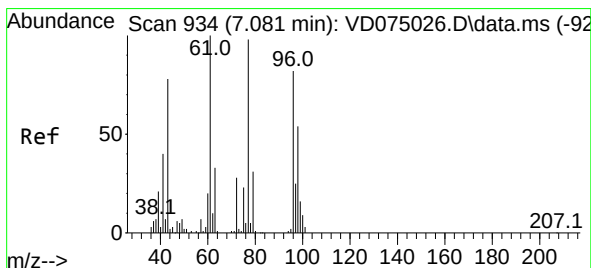
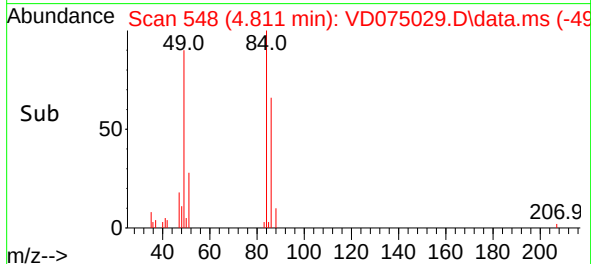
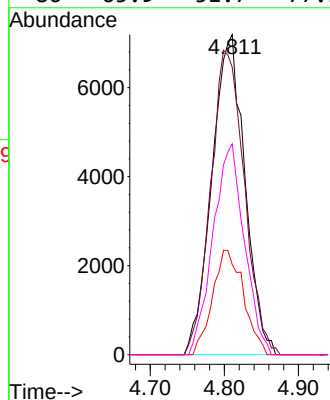
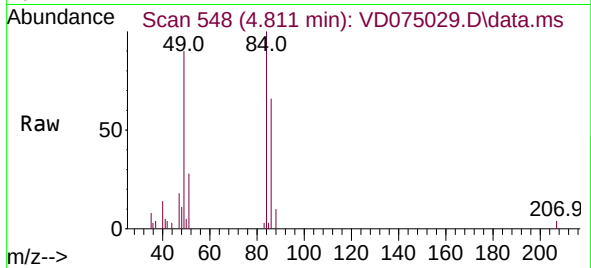




#20
Methylene Chloride
Concen: Below Cal
RT: 4.811 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

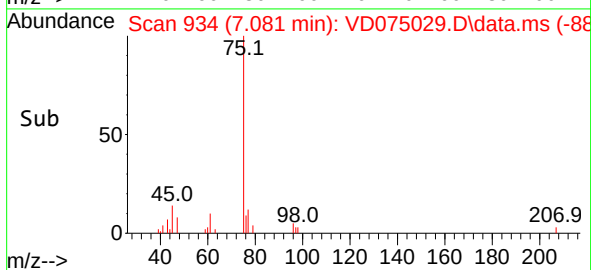
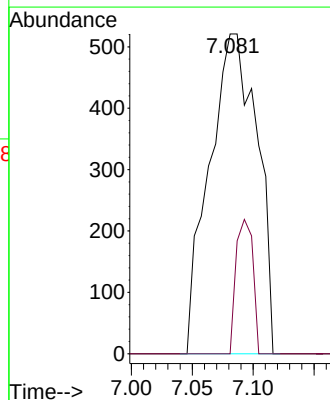
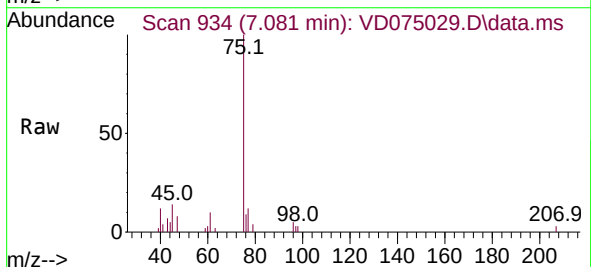
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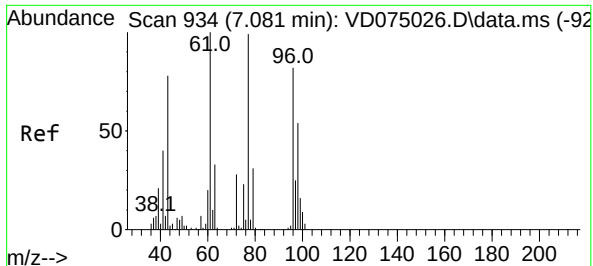
Tgt Ion: 84 Resp: 22193
Ion Ratio Lower Upper
84 100
49 89.9 77.2 115.8
51 28.2 24.1 36.1
86 65.9 51.7 77.5



#25
2-Butanone
Concen: 3.778 ug/l
RT: 7.081 min Scan# 934
Delta R.T. 0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion: 43 Resp: 1422
Ion Ratio Lower Upper
43 100
72 0.0 28.4 42.6#





#26

2,2-Dichloropropane

Concen: 1.170 ug/l

RT: 7.075 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

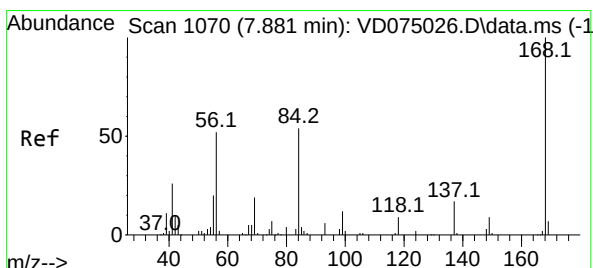
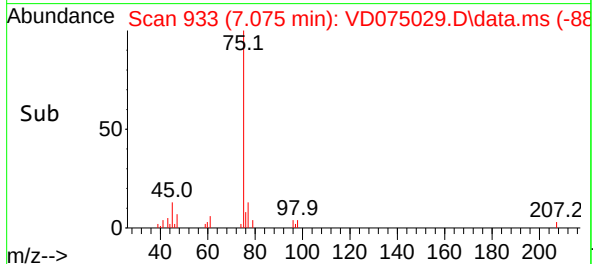
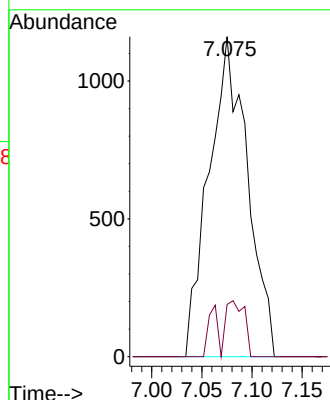
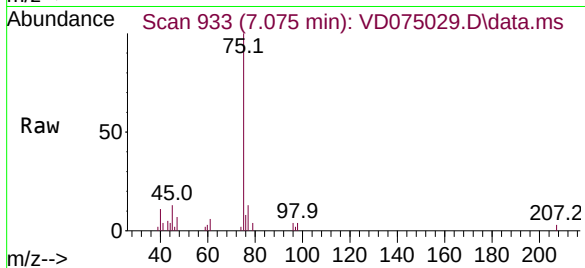
VIBLK

Tgt Ion: 77 Resp: 3095

Ion Ratio Lower Upper

77 100

97 8.4 12.6 37.6#



#31

Cyclohexane

Concen: 2.655 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

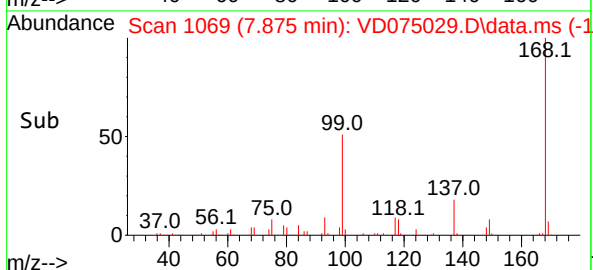
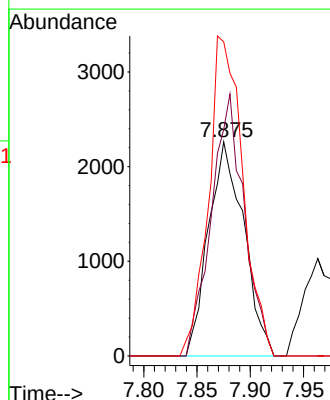
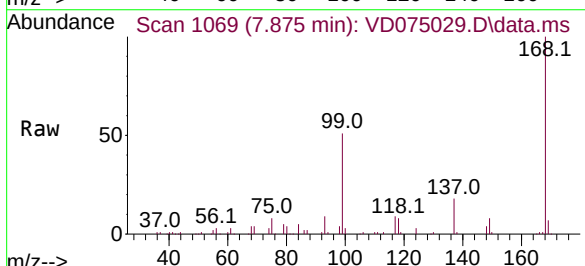
Tgt Ion: 56 Resp: 5221

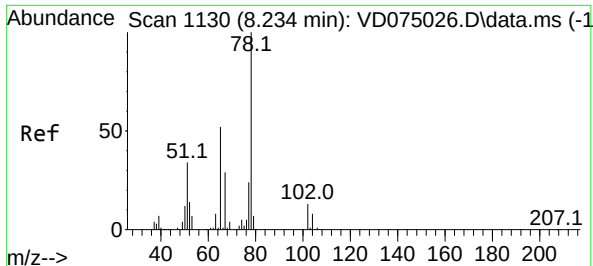
Ion Ratio Lower Upper

56 100

69 105.8 29.4 44.2#

84 146.7 81.8 122.8#





#33

1,2-Dichloroethane-d4

Concen: 61.248 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

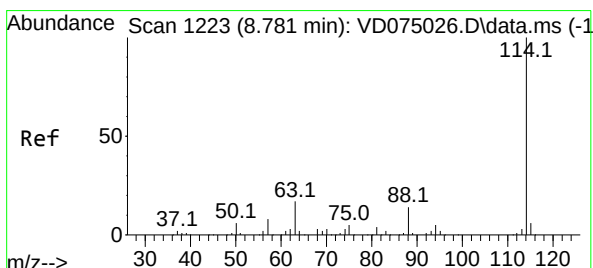
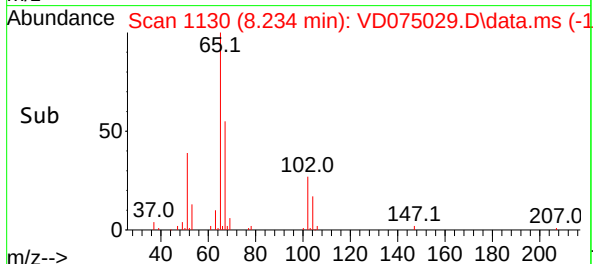
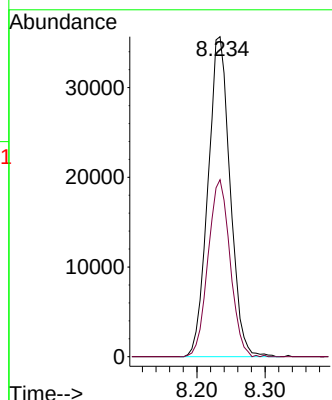
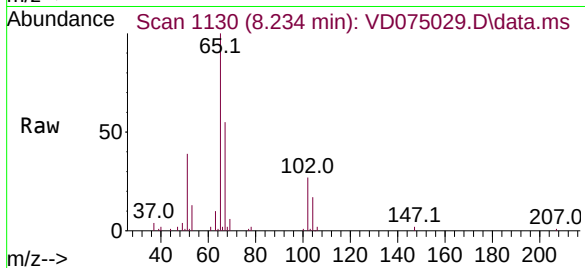
VIBLK

Tgt Ion: 65 Resp: 80507

Ion Ratio Lower Upper

65 100

67 55.0 0.0 111.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

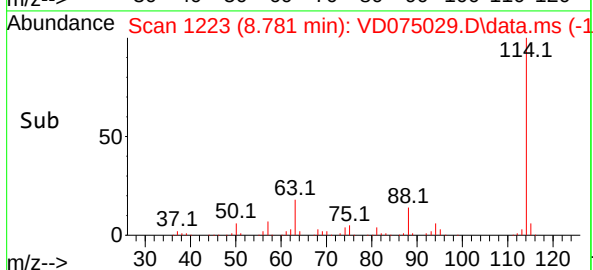
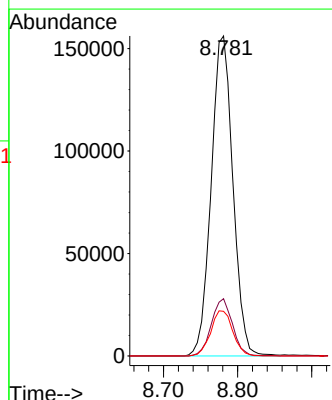
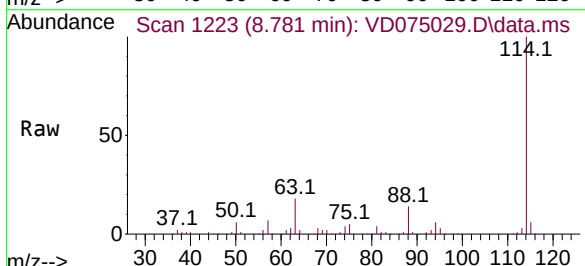
Tgt Ion: 114 Resp: 318078

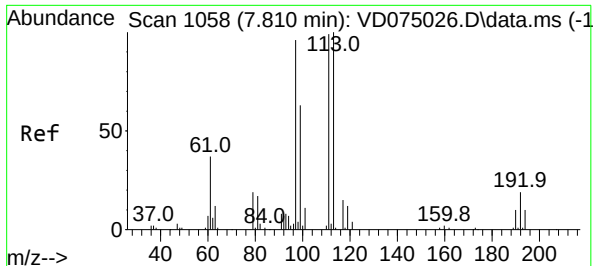
Ion Ratio Lower Upper

114 100

63 17.9 0.0 33.8

88 14.0 0.0 27.8





#35

Dibromofluoromethane

Concen: 49.795 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

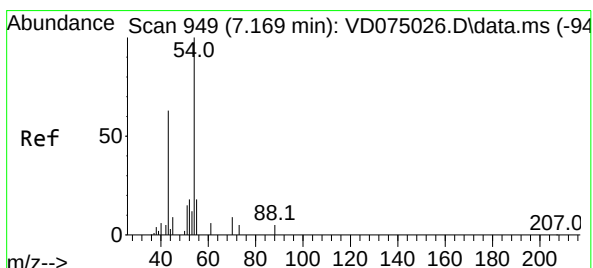
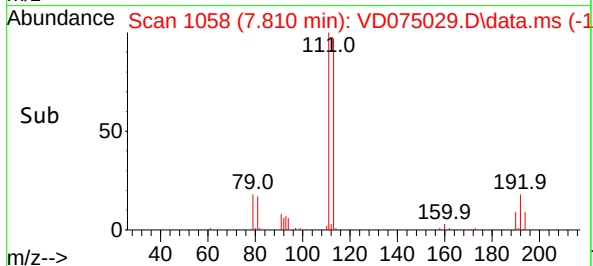
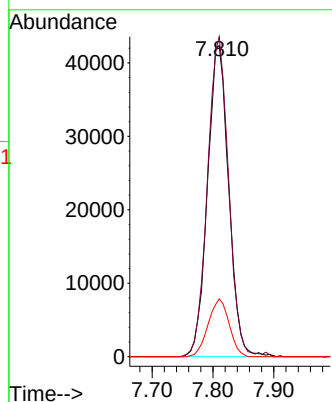
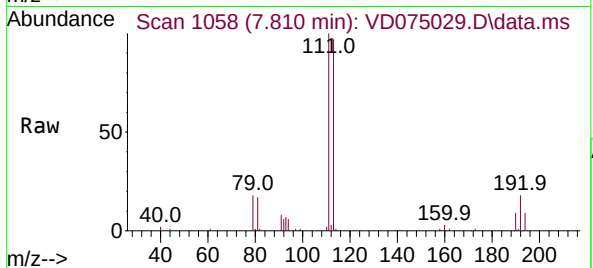
Tgt Ion:113 Resp: 102736

Ion Ratio Lower Upper

113 100

111 102.4 82.1 123.1

192 18.3 15.1 22.7



#37

Ethyl Acetate

Concen: 1.552 ug/l

RT: 7.081 min Scan# 934

Delta R.T. -0.088 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

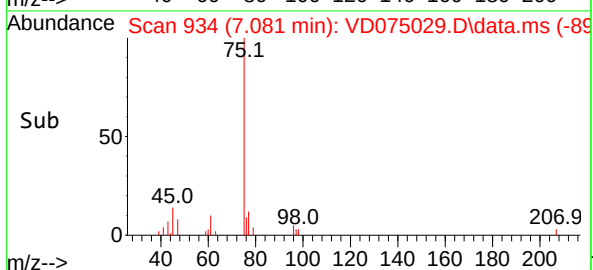
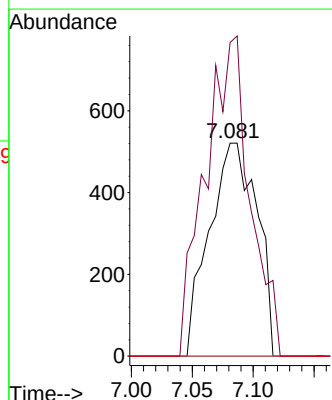
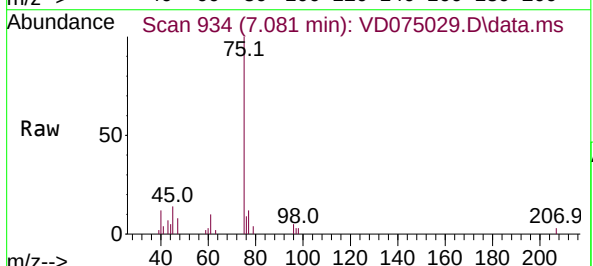
Tgt Ion: 43 Resp: 1422

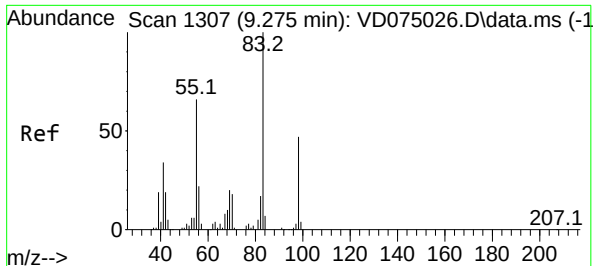
Ion Ratio Lower Upper

43 100

61 141.1 12.8 19.2#

70 0.0 10.2 15.4#





#39

Methylcyclohexane

Concen: 1.156 ug/l

RT: 9.275 min Scan# 1307

Delta R.T. 0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

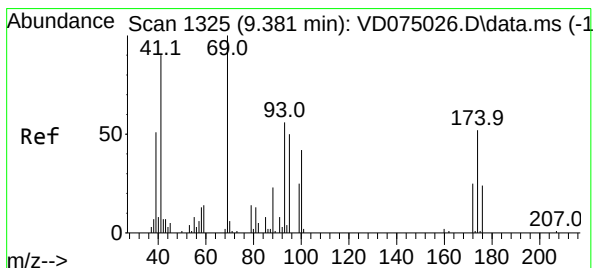
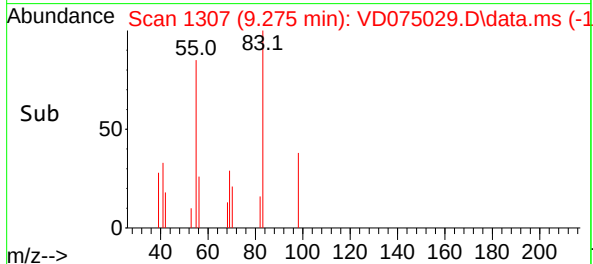
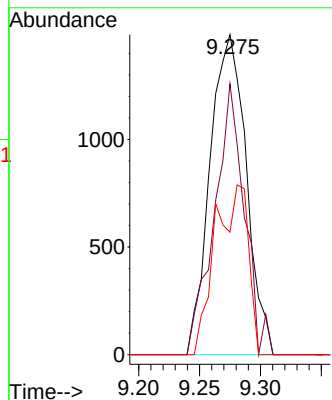
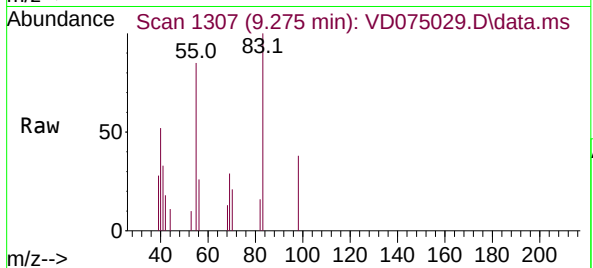
Tgt Ion: 83 Resp: 3074

Ion Ratio Lower Upper

83 100

55 84.7 53.1 79.7#

98 38.3 37.5 56.3



#48

Methyl methacrylate

Concen: 1.917 ug/l

RT: 9.281 min Scan# 1308

Delta R.T. -0.100 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

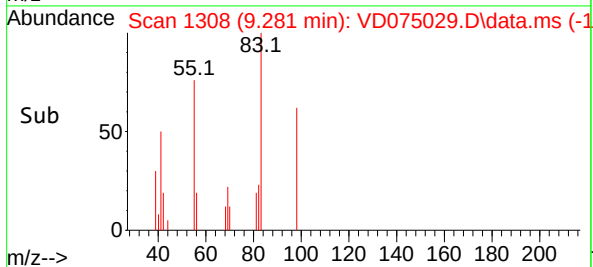
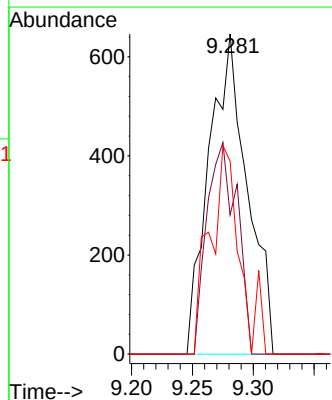
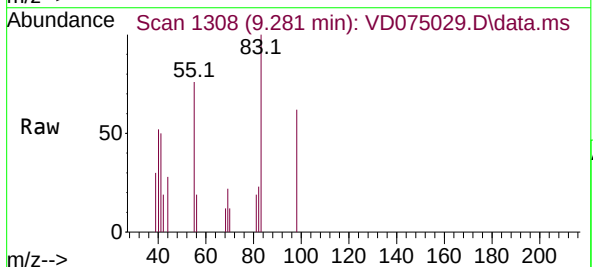
Tgt Ion: 41 Resp: 1416

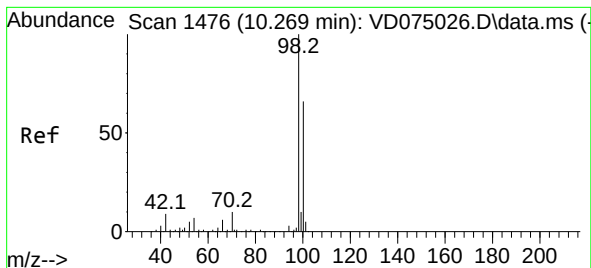
Ion Ratio Lower Upper

41 100

69 51.9 84.8 127.2#

39 50.4 43.6 65.4





#50

Toluene-d8

Concen: 54.507 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

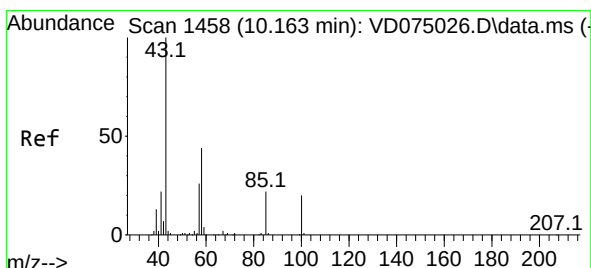
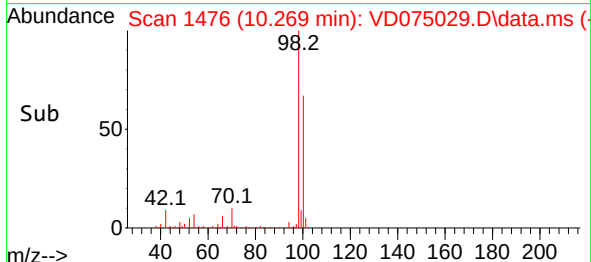
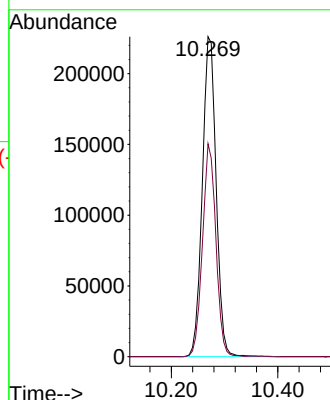
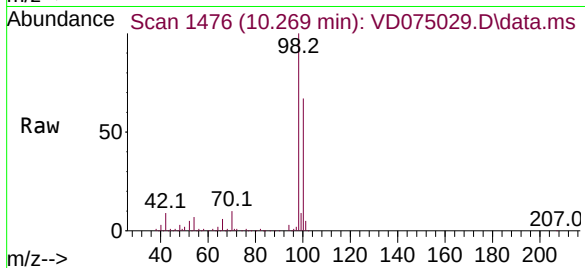
VIBLK

Tgt Ion: 98 Resp: 406823

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.133 ug/l

RT: 10.157 min Scan# 1457

Delta R.T. -0.006 min

Lab File: VD075029.D

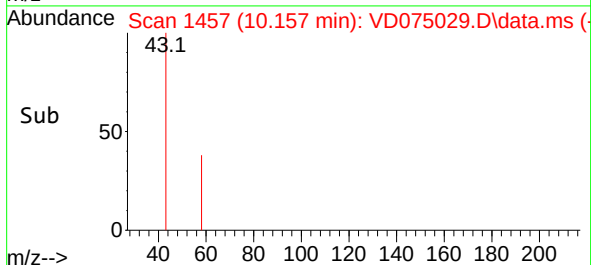
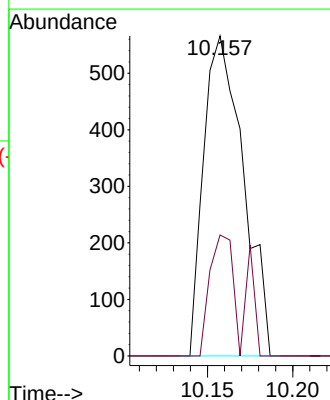
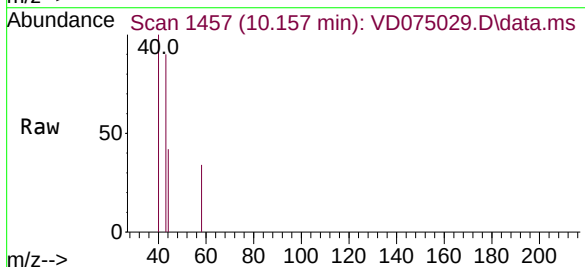
Acq: 15 Dec 2022 15:31

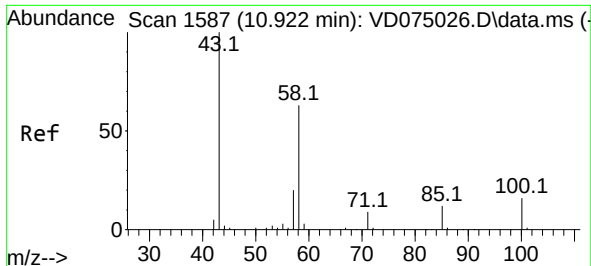
Tgt Ion: 43 Resp: 916

Ion Ratio Lower Upper

43 100

58 29.6 35.7 53.5#

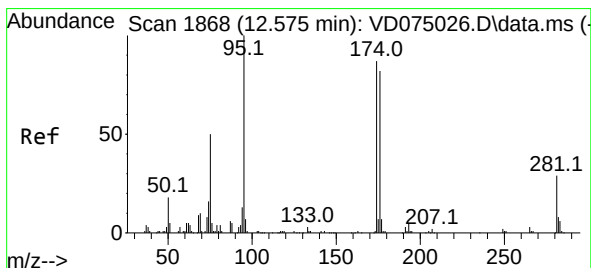
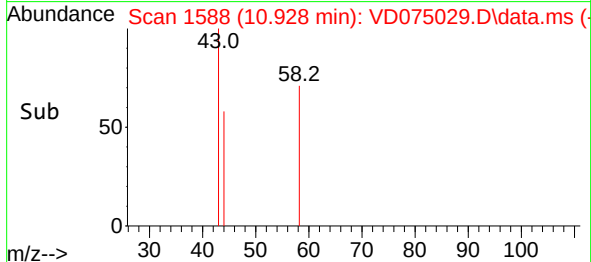
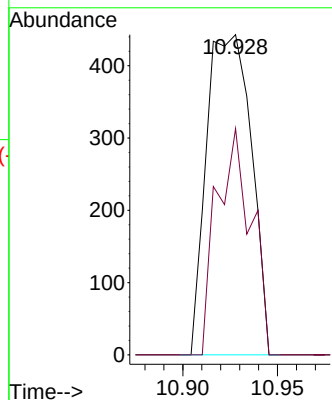
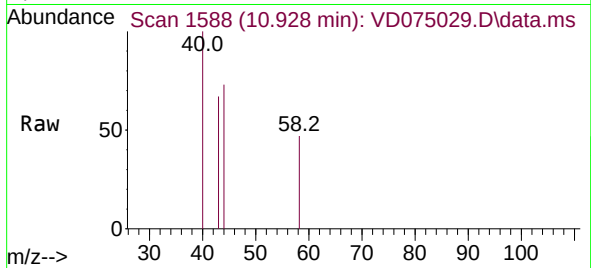




#59
2-Hexanone
Concen: 1.248 ug/l
RT: 10.928 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

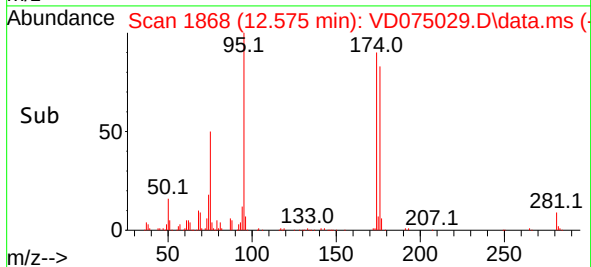
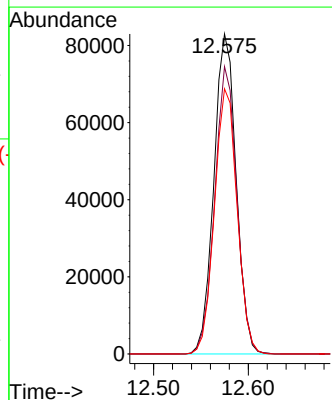
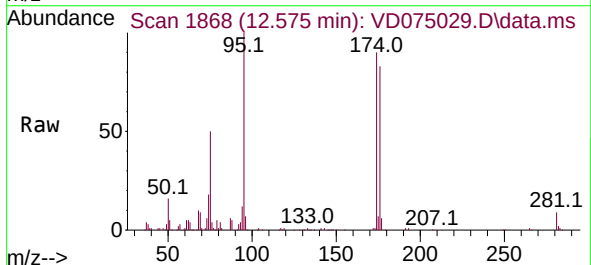
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

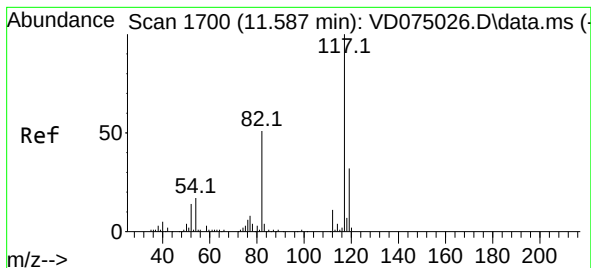
Tgt Ion: 43 Resp: 727
Ion Ratio Lower Upper
43 100
58 54.5 30.8 92.4



#62
4-Bromofluorobenzene
Concen: 61.567 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion: 95 Resp: 135753
Ion Ratio Lower Upper
95 100
174 89.0 0.0 171.2
176 84.2 0.0 165.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.587 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

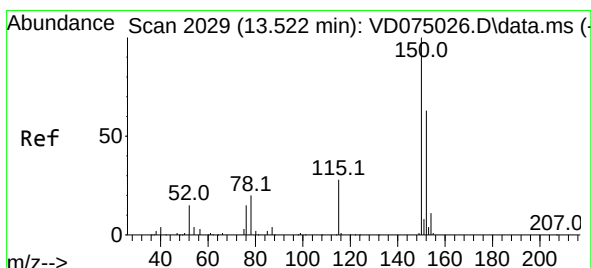
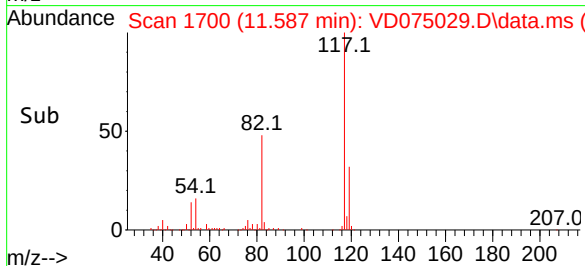
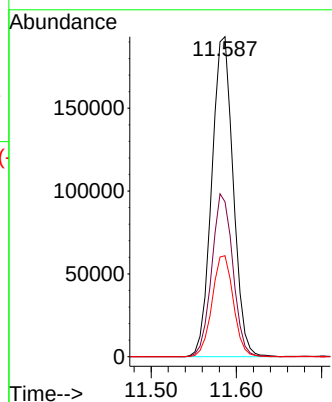
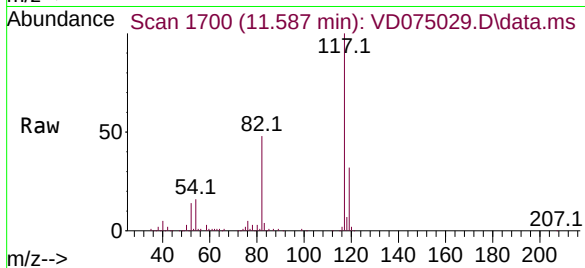
Tgt Ion:117 Resp: 337859

Ion Ratio Lower Upper

117 100

82 48.4 40.9 61.3

119 31.6 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 2029

Delta R.T. -0.000 min

Lab File: VD075029.D

Acq: 15 Dec 2022 15:31

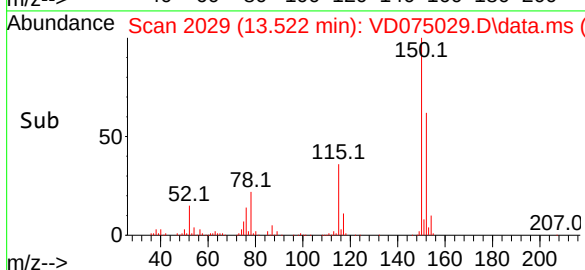
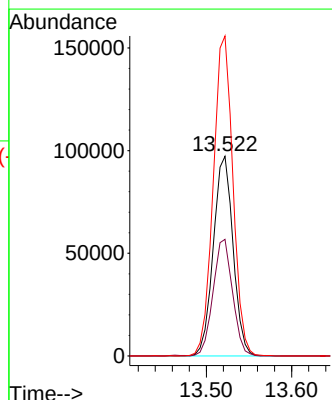
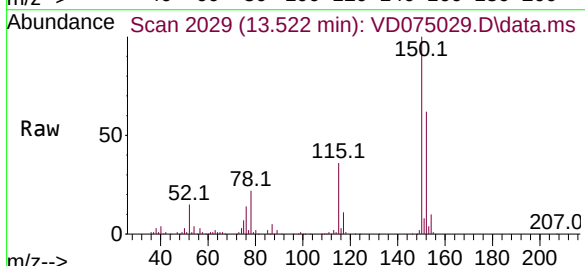
Tgt Ion:152 Resp: 156714

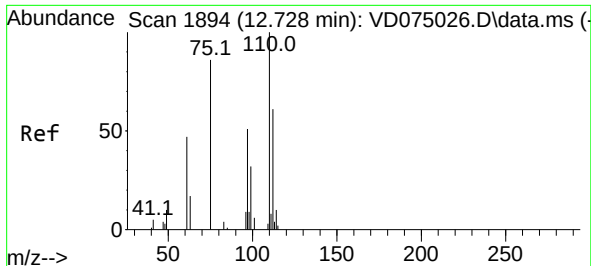
Ion Ratio Lower Upper

152 100

115 57.5 28.8 86.5

150 159.4 0.0 354.2

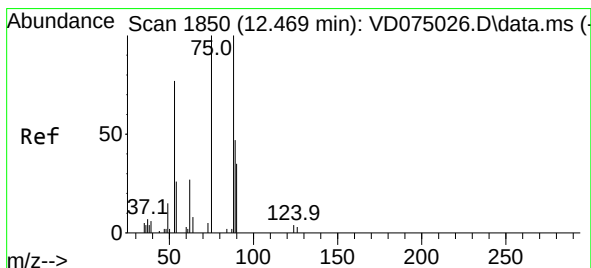
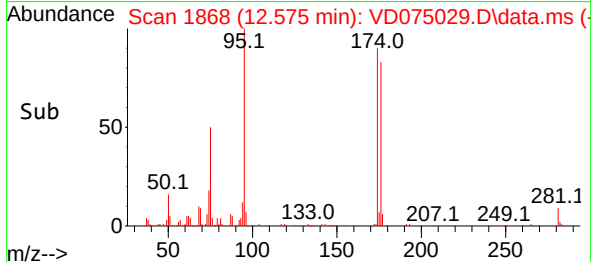
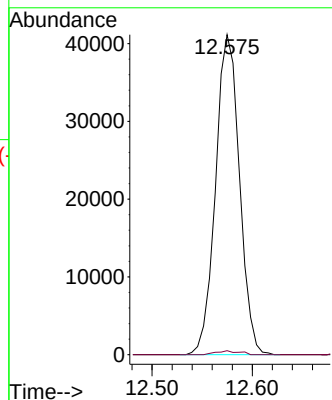
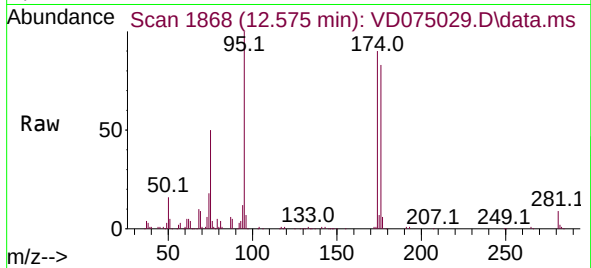




#76
1,2,3-Trichloropropane
Concen: 52.128 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

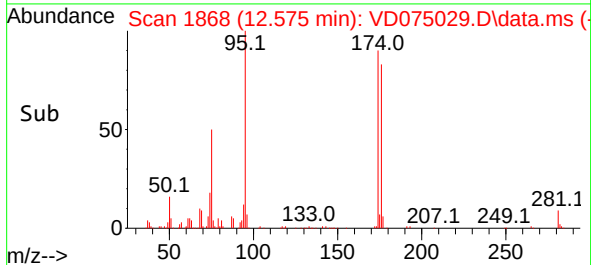
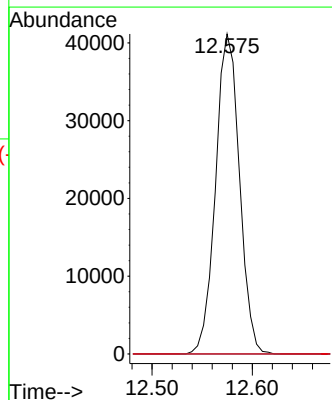
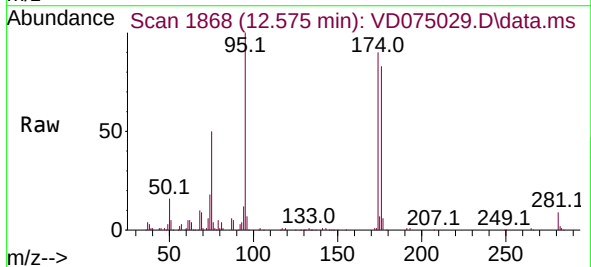
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

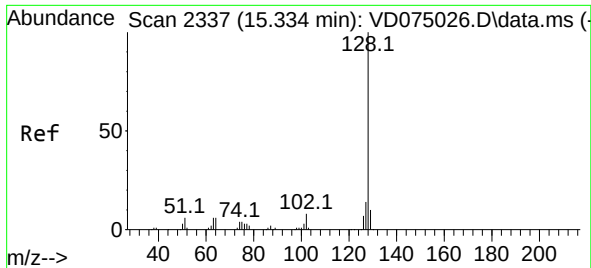
Tgt Ion: 75 Resp: 68046
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 139.317 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD075029.D
Acq: 15 Dec 2022 15:31

Tgt Ion: 75 Resp: 68046
Ion Ratio Lower Upper
75 100
53 0.0 60.0 90.0#
89 0.0 37.4 56.0#





#95

Naphthalene

Concen: 1.149 ug/l

RT: 15.334 min Scan# 21

Delta R.T. -0.000 min

Lab File: VD075029.D

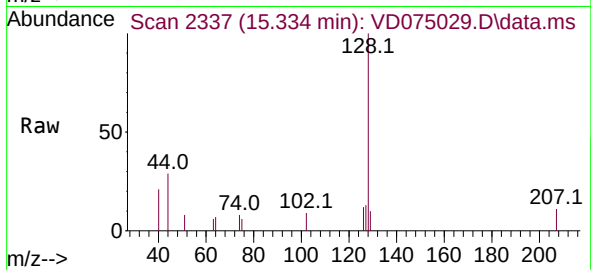
Acq: 15 Dec 2022 15:31

Instrument :

MSVOA_D

ClientSampleId :

VIBLK



Tgt Ion:128 Resp: 5508

Ion Ratio Lower Upper

128 100

127 8.3 10.6 16.0#

129 8.4 8.7 13.1#

