

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122121\
 Data File : VD071406.D
 Acq On : 21 Dec 2021 13:02
 Operator : VA/SY
 Sample : M5179-05
 Misc : 6.24G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 21 19:05:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

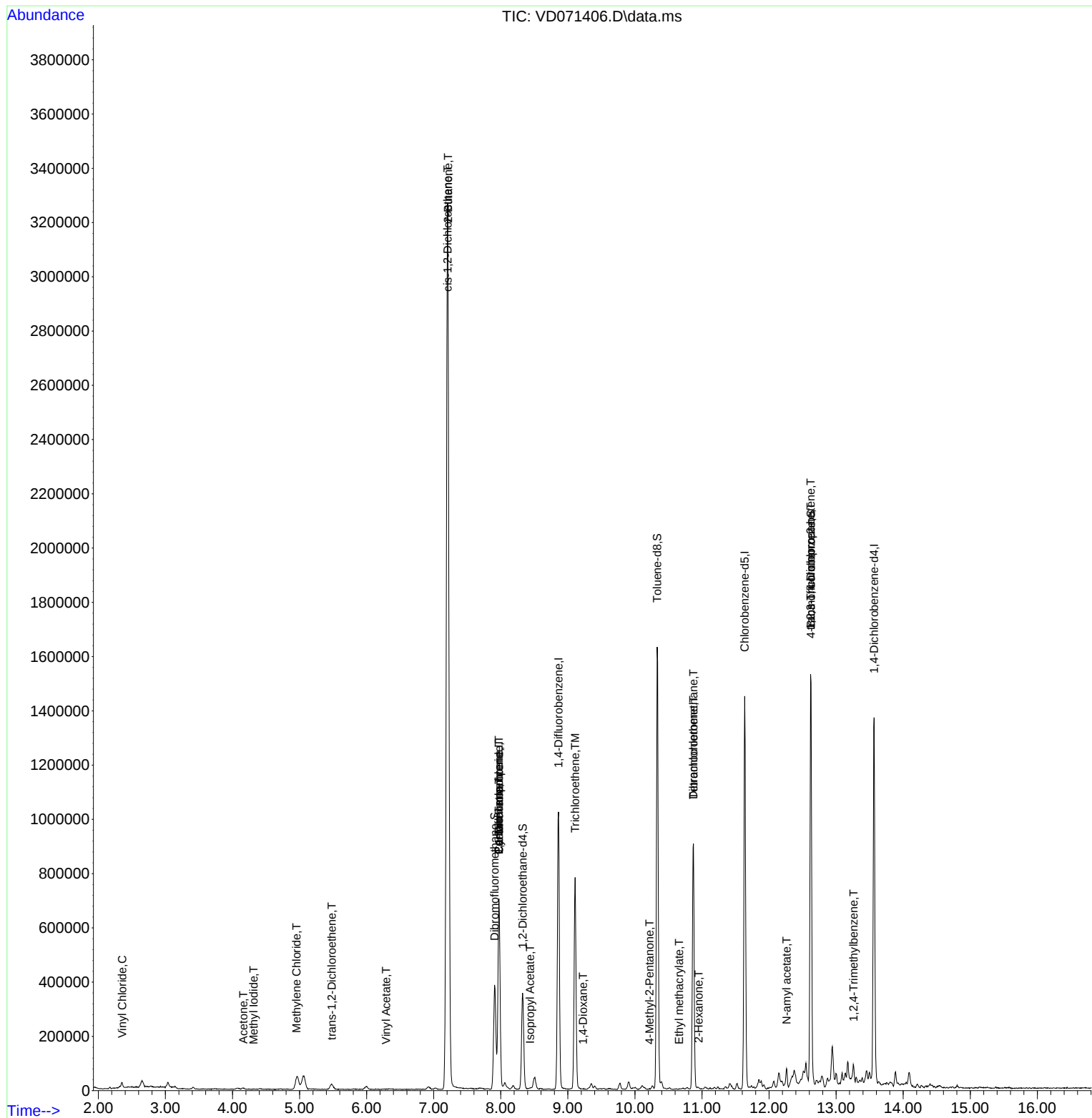
Internal Standards						
1) Pentafluorobenzene	7.973	168	484890	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.861	114	852158	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	761093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	335029	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	283181	49.772	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	99.540%
35) Dibromofluoromethane	7.908	113	267315	49.261	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.520%
50) Toluene-d8	10.332	98	1061399	51.398	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	102.800%
62) 4-Bromofluorobenzene	12.626	95	348575	48.696	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	97.400%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.356	62	7415	1.215	ug/l #	86
10) Methyl Iodide	4.314	142	1355	4.778	ug/l #	50
11) Tert butyl alcohol	5.203	59	1547	Below Cal	#	71
16) Acetone	4.162	43	6766	34.723	ug/l #	84
20) Methylene Chloride	4.956	84	31720	1.471	ug/l	98
21) trans-1,2-Dichloroethene	5.479	96	7484	1.477	ug/l	86
23) Vinyl Acetate	6.291	43	239	27.241	ug/l #	72
25) 2-Butanone	7.214	43	1798	29.273	ug/l #	1
27) cis-1,2-Dichloroethene	7.208	96	1900500	331.527	ug/l	95
31) Cyclohexane	7.973	56	18763	1.939	ug/l #	53
36) 1,1-Dichloropropene	7.973	75	45353	5.694	ug/l #	49
38) Carbon Tetrachloride	7.973	117	52171	6.645	ug/l #	19
41) Methacrylonitrile	7.514	41	408	Below Cal	#	31
43) Isopropyl Acetate	8.438	43	1528	5.404	ug/l #	47
44) Trichloroethene	9.108	130	258197	44.762	ug/l	97
49) 1,4-Dioxane	9.226	88	68	2.387	ug/l #	23
51) 4-Methyl-2-Pentanone	10.220	43	909	30.857	ug/l #	34
56) Ethyl methacrylate	10.661	69	458	6.043	ug/l #	1
59) 2-Hexanone	10.949	43	2965	35.448	ug/l #	25
60) Dibromochloromethane	10.873	129	178627	37.117	ug/l #	11
64) Tetrachloroethene	10.873	164	190297	39.384	ug/l	96
74) N-amyl acetate	12.261	43	14724	7.665	ug/l #	57
76) 1,2,3-Trichloropropane	12.620	75	202961	63.584	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	202961	137.319	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.261	105	34483	1.766	ug/l	85

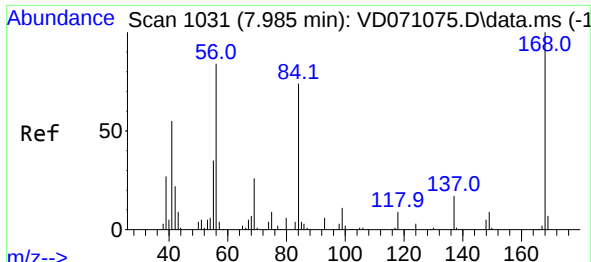
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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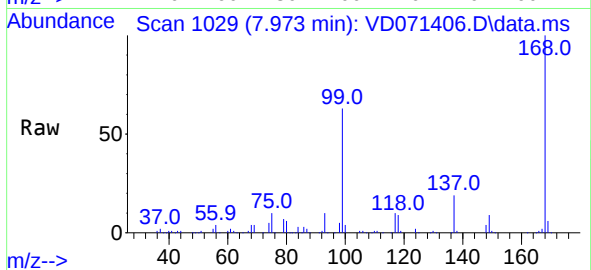
Quant Time: Dec 21 19:05:30 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
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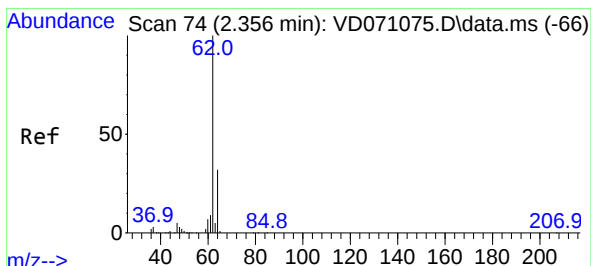
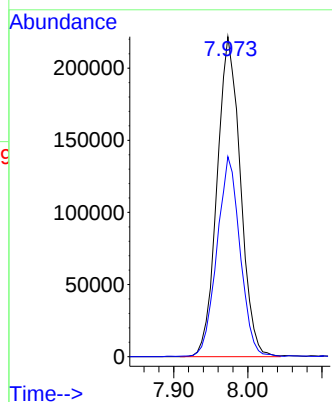
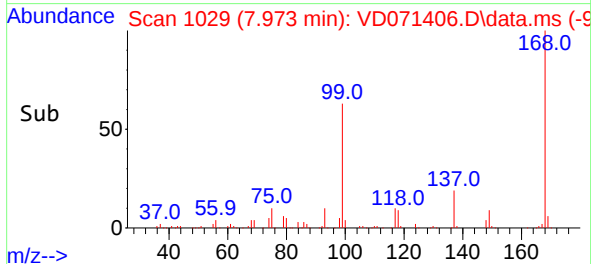


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.012 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Instrument :
MSVOA_D
ClientSampleId :

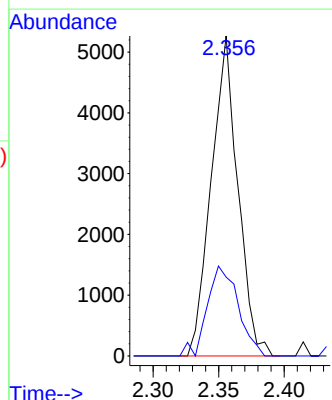
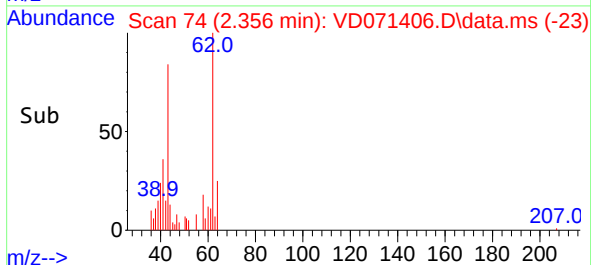
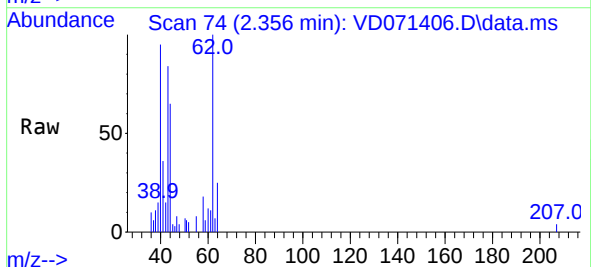


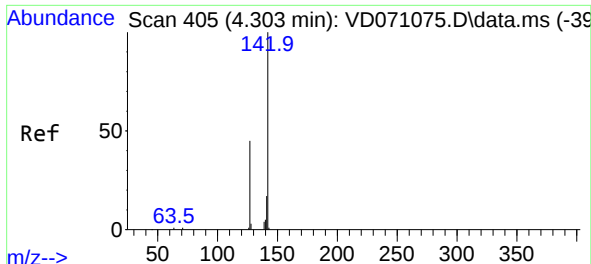
Tgt Ion:168 Resp: 484890
Ion Ratio Lower Upper
168 100
99 62.3 46.6 69.8



#4
Vinyl Chloride
Concen: 1.215 ug/l
RT: 2.356 min Scan# 74
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 62 Resp: 7415
Ion Ratio Lower Upper
62 100
64 24.7 26.0 39.0#





#10

Methyl Iodide

Concen: 4.778 ug/l

RT: 4.314 min Scan# 40

Delta R.T. 0.011 min

Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

Instrument :

MSVOA_D

ClientSampleId :

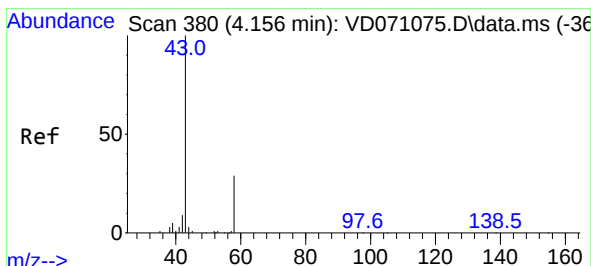
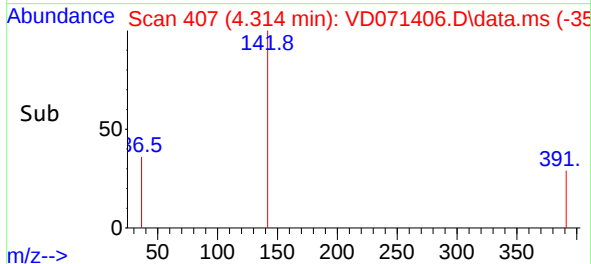
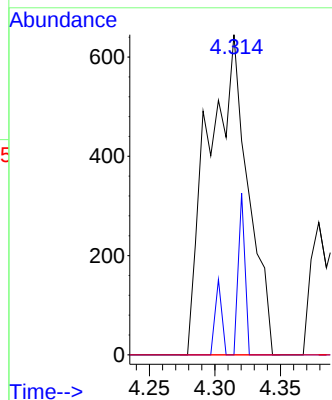
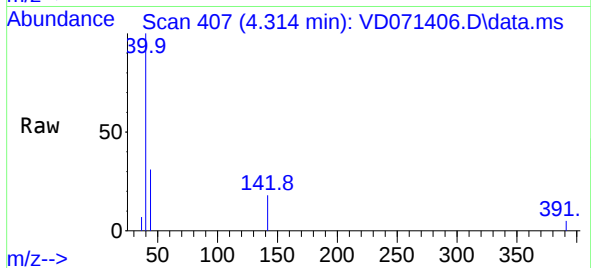
Tgt Ion:142 Resp: 1355

Ion Ratio Lower Upper

142 100

127 8.5 35.0 52.4#

141 0.0 12.0 18.0#



#16

Acetone

Concen: 34.723 ug/l

RT: 4.162 min Scan# 381

Delta R.T. 0.006 min

Lab File: VD071406.D

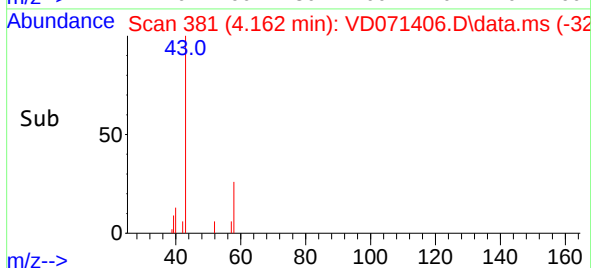
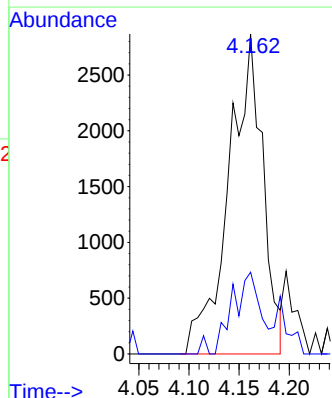
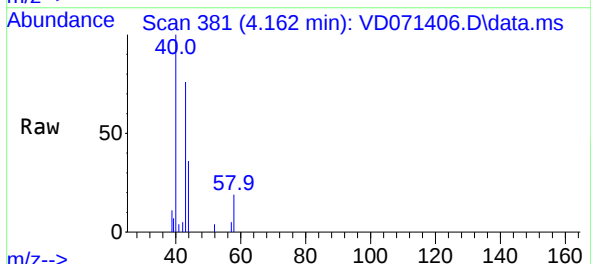
Acq: 21 Dec 2021 13:02

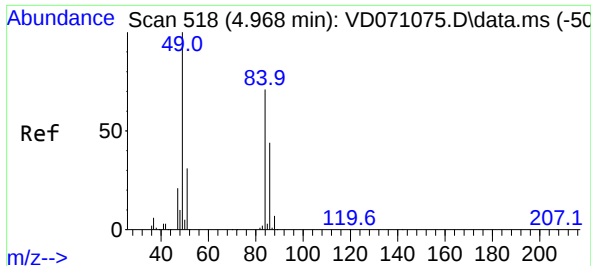
Tgt Ion: 43 Resp: 6766

Ion Ratio Lower Upper

43 100

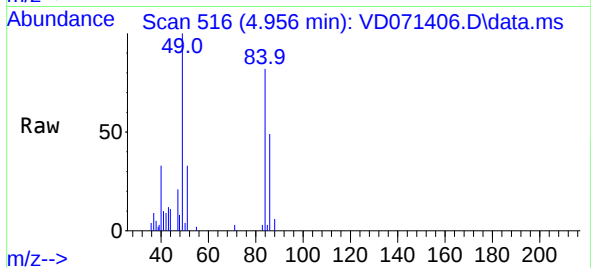
58 25.6 27.8 41.8#



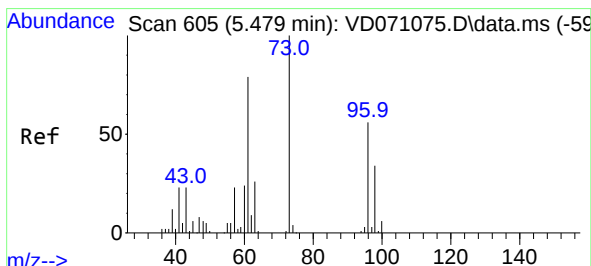
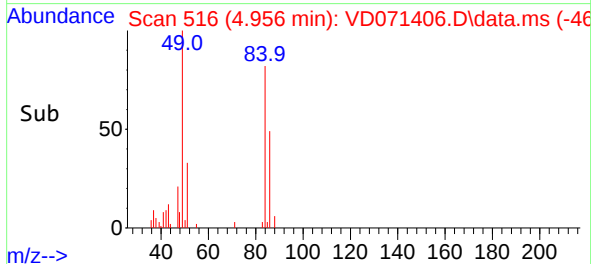
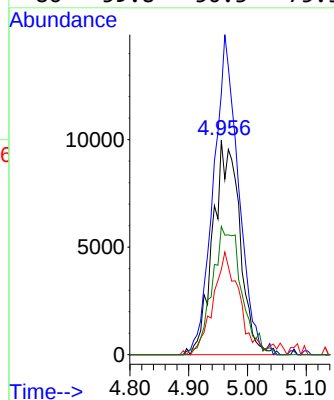


#20
Methylene Chloride
Concen: 1.471 ug/l
RT: 4.956 min Scan# 518
Delta R.T. -0.012 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Instrument :
MSVOA_D
ClientSampleId :

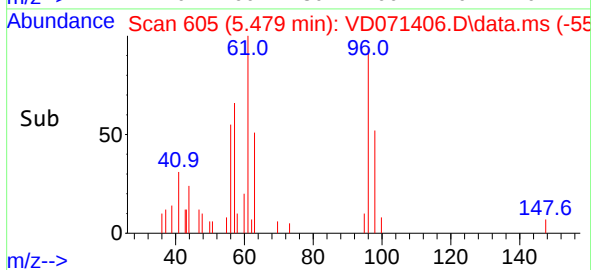
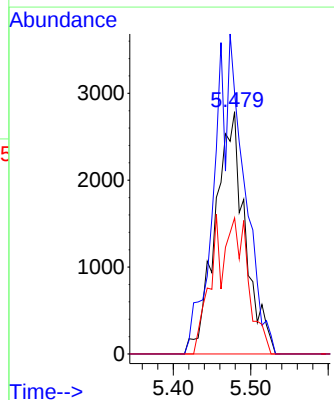
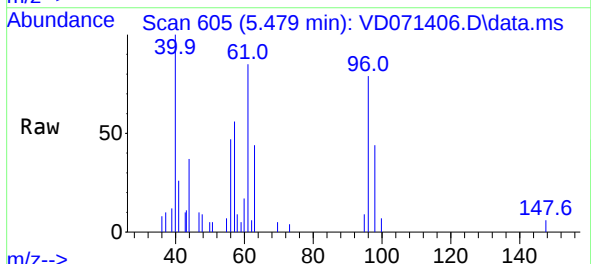


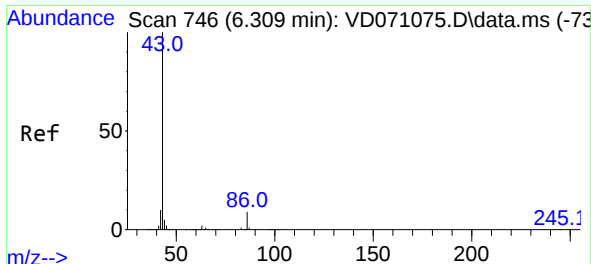
Tgt Ion: 84 Resp: 31720
Ion Ratio Lower Upper
84 100
49 121.6 95.8 143.6
51 39.7 30.9 46.3
86 59.8 50.3 75.5



#21
trans-1,2-Dichloroethene
Concen: 1.477 ug/l
RT: 5.479 min Scan# 605
Delta R.T. 0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 96 Resp: 7484
Ion Ratio Lower Upper
96 100
61 107.7 102.1 153.1
98 56.1 50.1 75.1

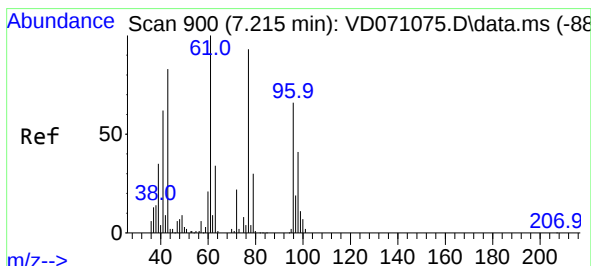
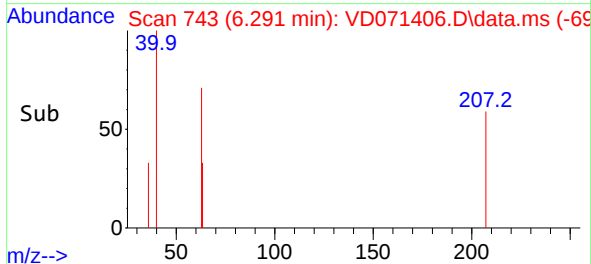
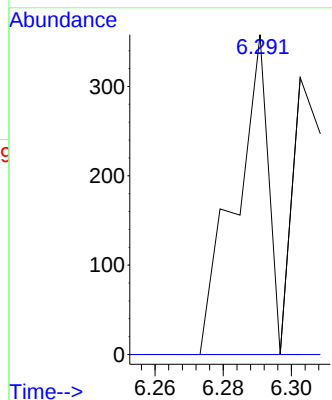
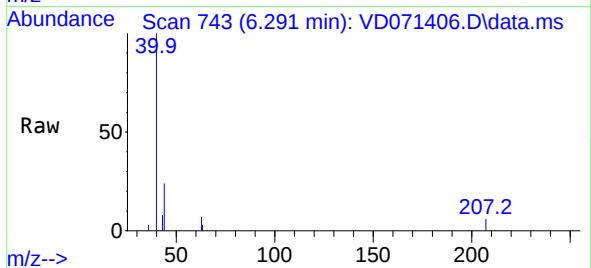




#23
 Vinyl Acetate
 Concen: 27.241 ug/l
 RT: 6.291 min Scan# 746
 Delta R.T. -0.018 min
 Lab File: VD071406.D
 Acq: 21 Dec 2021 13:02

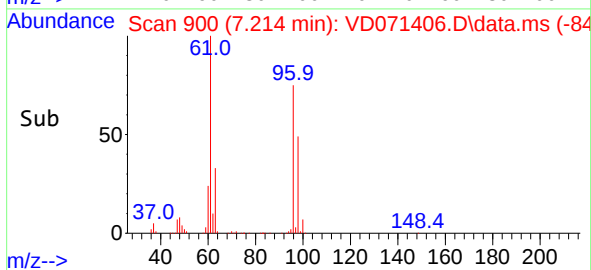
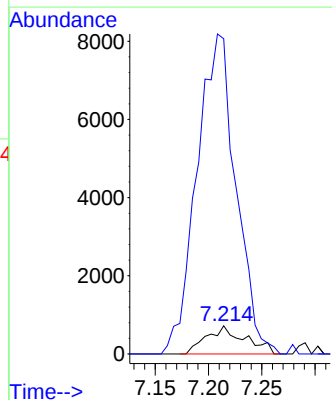
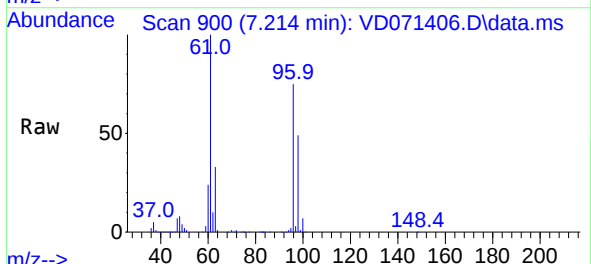
Instrument :
 MSVOA_D
 ClientSampleId :

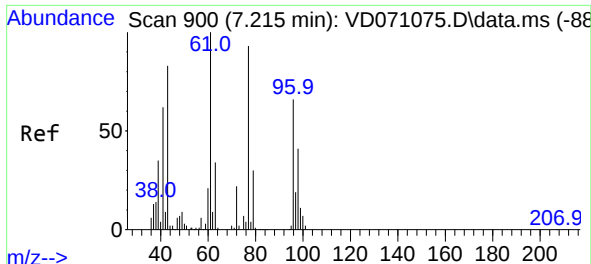
Tgt Ion: 43 Resp: 239
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 29.273 ug/l
 RT: 7.214 min Scan# 900
 Delta R.T. -0.001 min
 Lab File: VD071406.D
 Acq: 21 Dec 2021 13:02

Tgt Ion: 43 Resp: 1798
 Ion Ratio Lower Upper
 43 100
 72 1120.1 23.8 35.6#





#27

cis-1,2-Dichloroethene

Concen: 331.527 ug/l

RT: 7.208 min Scan# 899

Delta R.T. -0.007 min

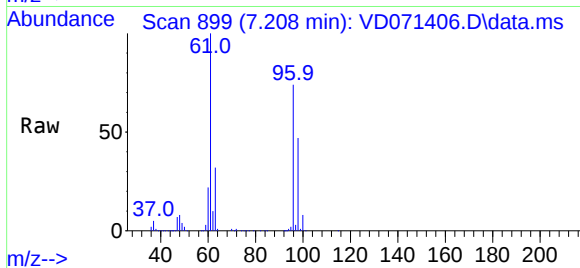
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Acq: 21 Dec 2021 13:02

Instrument :

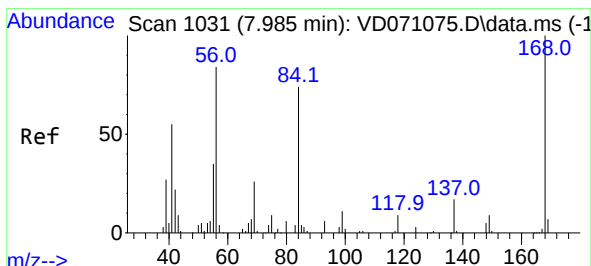
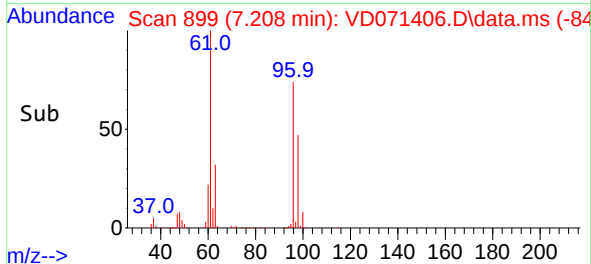
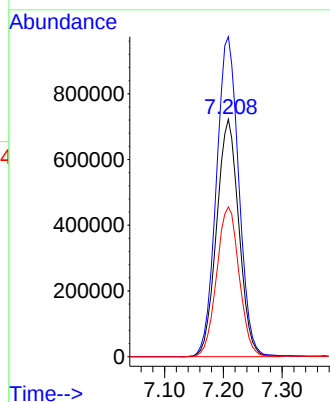
MSVOA_D

ClientSampleId :



Tgt Ion: 96 Resp: 1900500

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	288.6
98	64.0	0.0	129.2



#31

Cyclohexane

Concen: 1.939 ug/l

RT: 7.973 min Scan# 1029

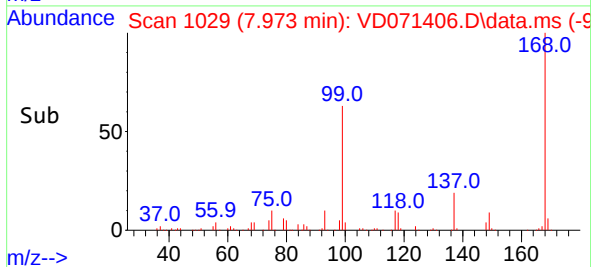
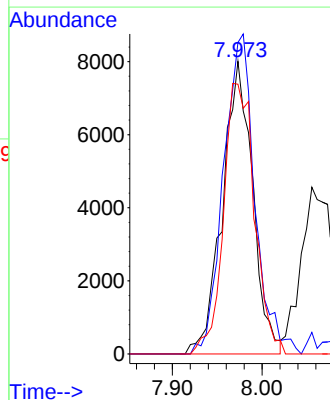
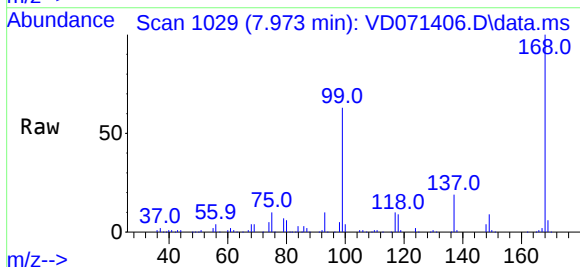
Delta R.T. -0.012 min

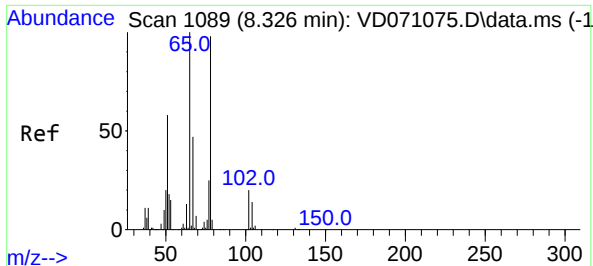
Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

Tgt Ion: 56 Resp: 18763

Ion	Ratio	Lower	Upper
56	100		
69	106.5	25.9	38.9#
84	92.2	64.3	96.5

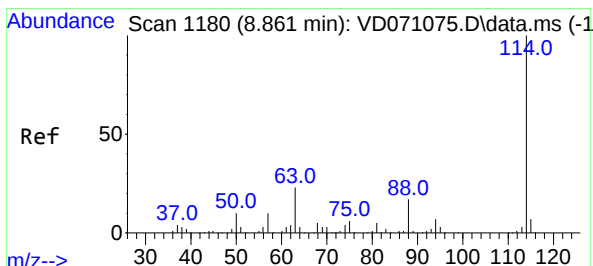
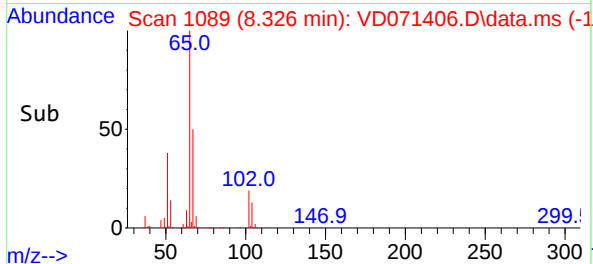
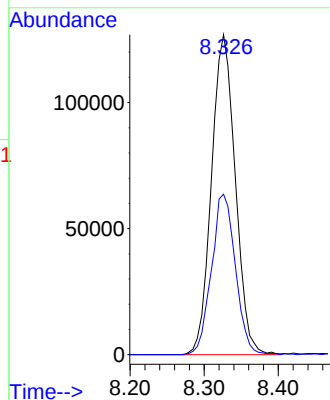
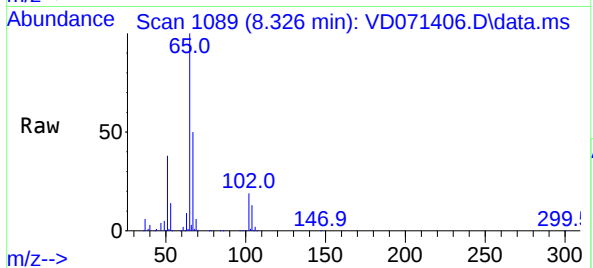




#33
1,2-Dichloroethane-d4
Concen: 49.772 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

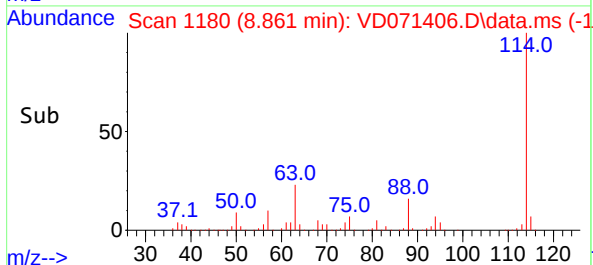
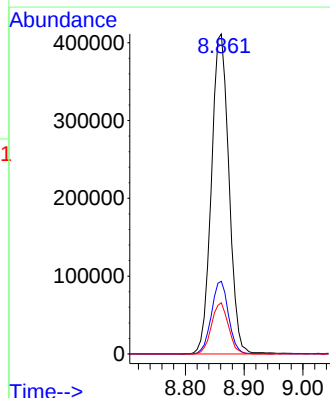
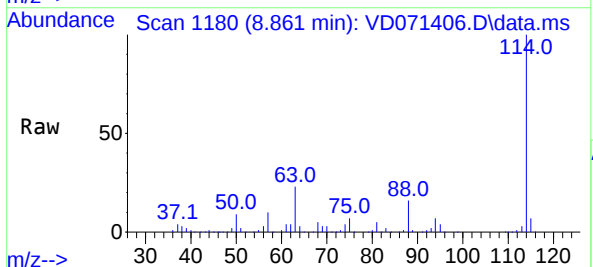
Instrument :
MSVOA_D
ClientSampleId :

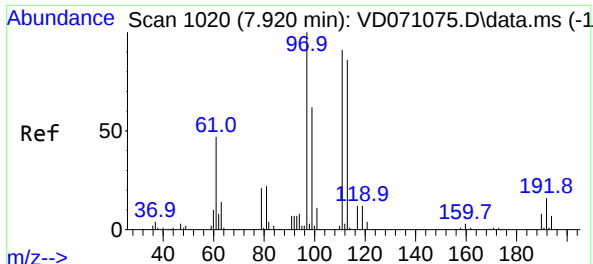
Tgt Ion: 65 Resp: 283181
Ion Ratio Lower Upper
65 100
67 50.4 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 114 Resp: 852158
Ion Ratio Lower Upper
114 100
63 22.7 0.0 41.8
88 16.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.261 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.012 min

Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

Instrument :

MSVOA_D

ClientSampleId :

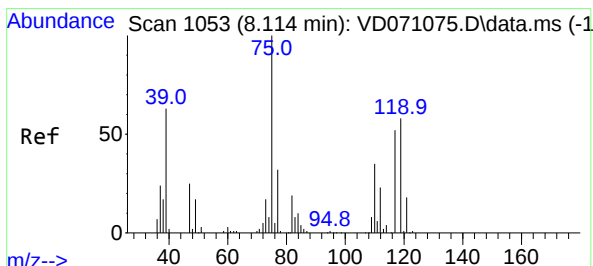
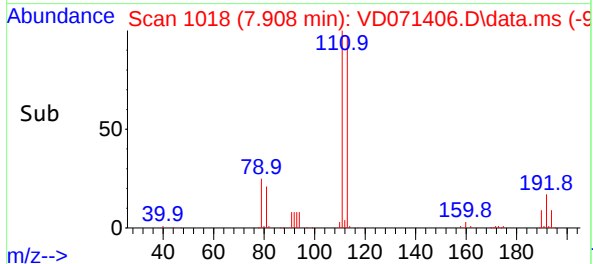
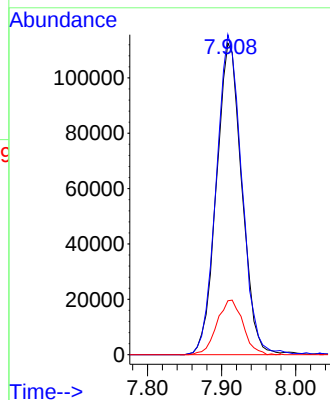
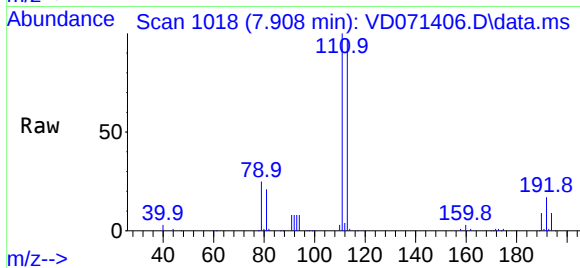
Tgt Ion:113 Resp: 267315

Ion Ratio Lower Upper

113 100

111 103.5 82.0 123.0

192 18.0 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.694 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

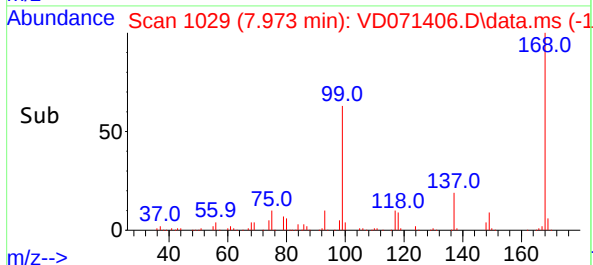
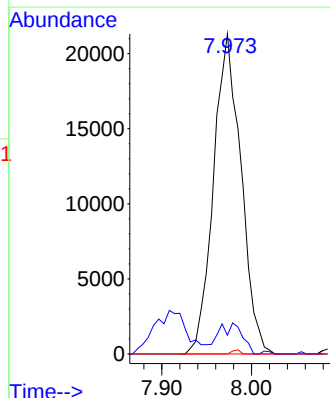
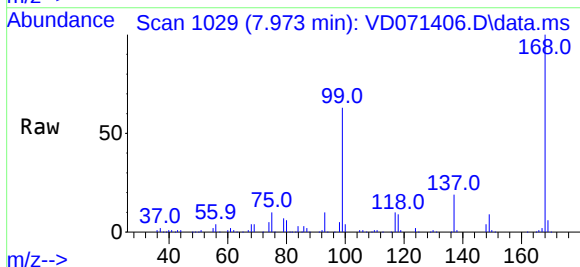
Tgt Ion: 75 Resp: 45353

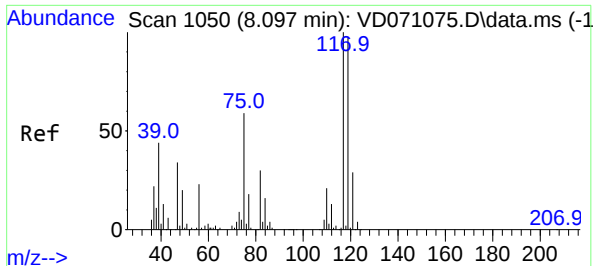
Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.4#

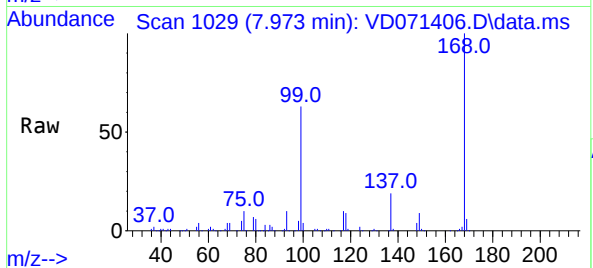
77 0.4 24.8 37.2#



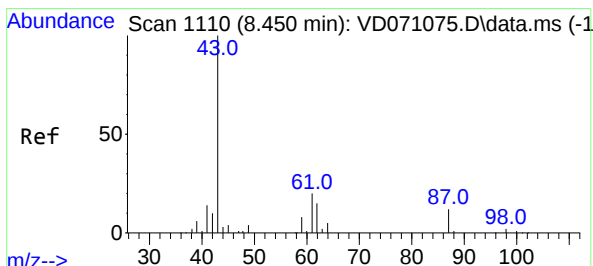
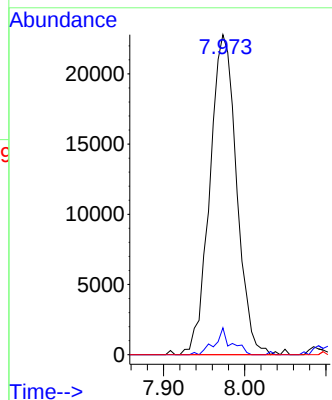
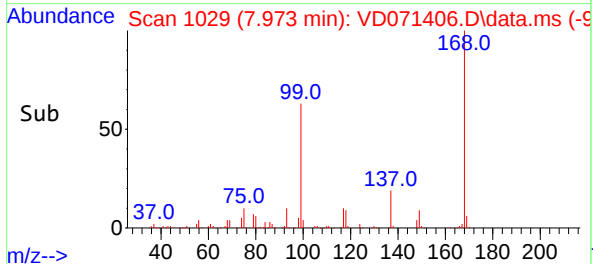


#38
Carbon Tetrachloride
Concen: 6.645 ug/l
RT: 7.973 min Scan# 1107
Delta R.T. -0.124 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Instrument :
MSVOA_D
ClientSampleId :

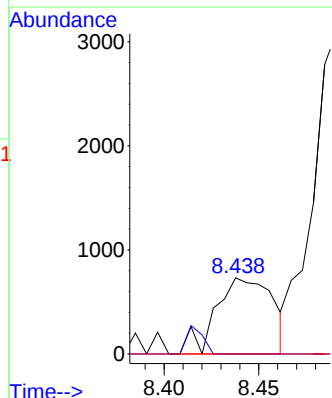
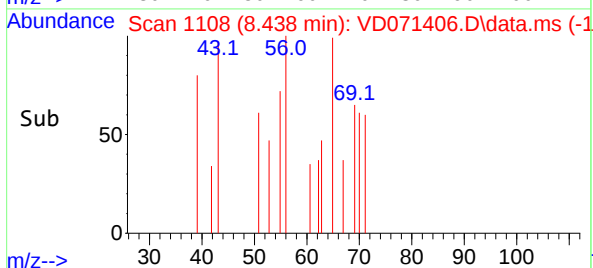
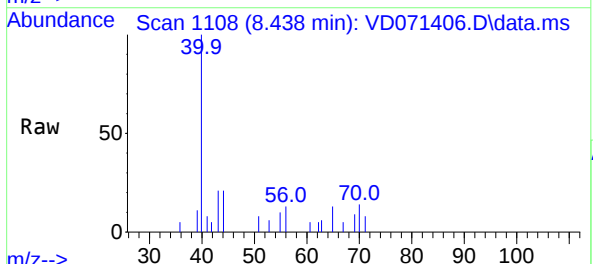


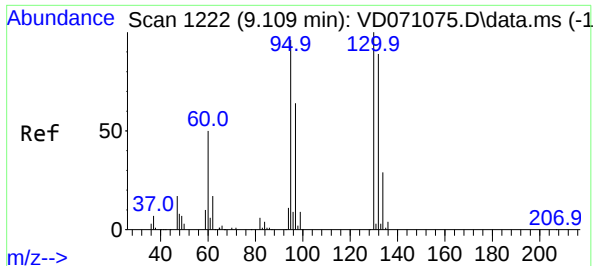
Tgt Ion:117 Resp: 52171
Ion Ratio Lower Upper
117 100
119 8.4 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.404 ug/l
RT: 8.438 min Scan# 1108
Delta R.T. -0.012 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#





#44

Trichloroethene

Concen: 44.762 ug/l

RT: 9.108 min Scan# 11

Delta R.T. -0.001 min

Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

Instrument :

MSVOA_D

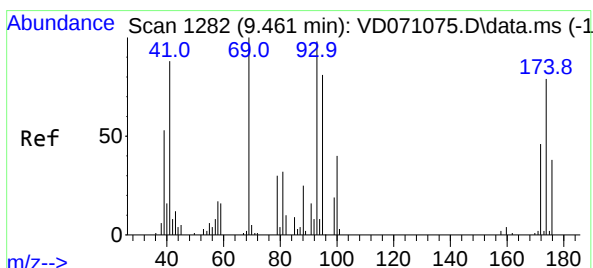
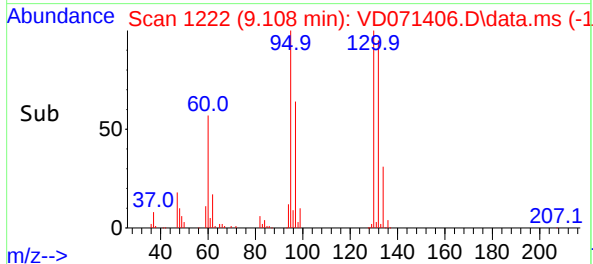
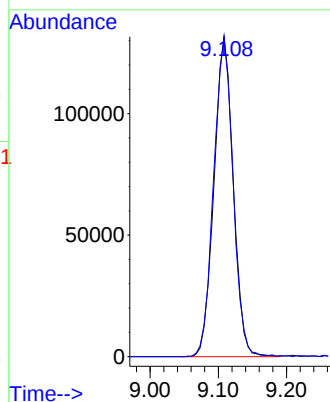
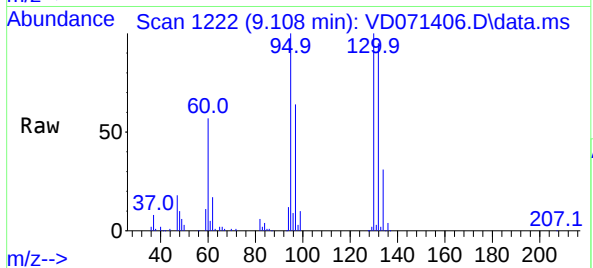
ClientSampleId :

Tgt Ion:130 Resp: 258197

Ion Ratio Lower Upper

130 100

95 100.0 0.0 193.2



#49

1,4-Dioxane

Concen: 2.387 ug/l

RT: 9.226 min Scan# 1242

Delta R.T. -0.235 min

Lab File: VD071406.D

Acq: 21 Dec 2021 13:02

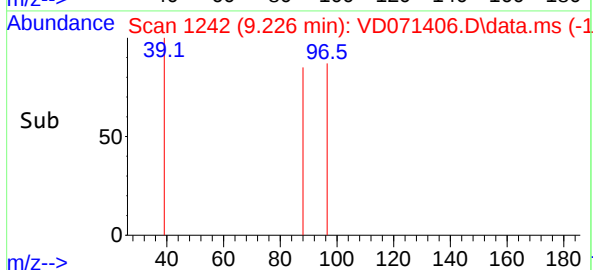
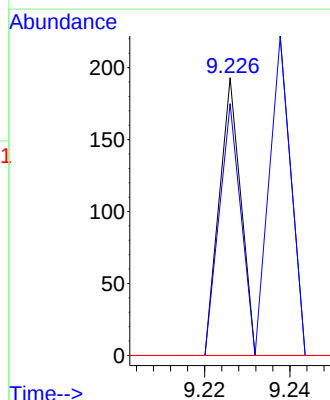
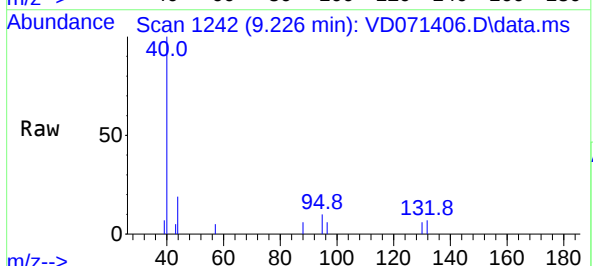
Tgt Ion: 88 Resp: 68

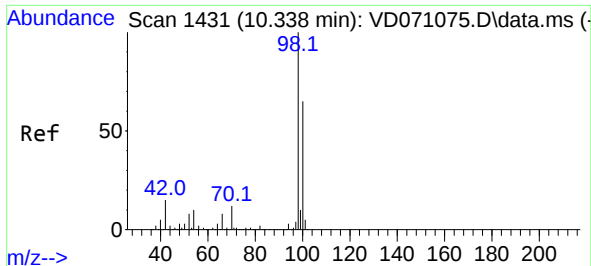
Ion Ratio Lower Upper

88 100

43 0.0 28.9 43.3#

58 0.0 56.3 84.5#

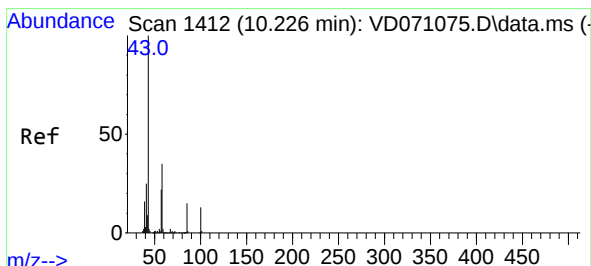
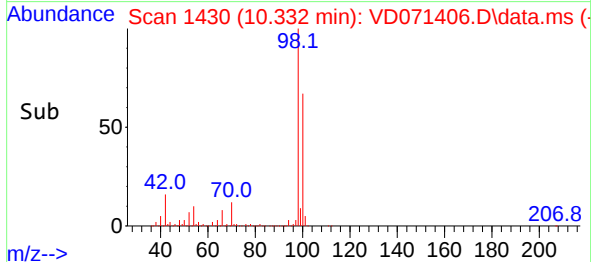
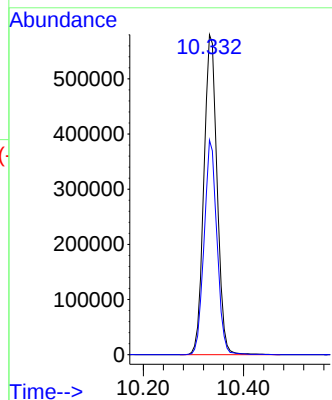
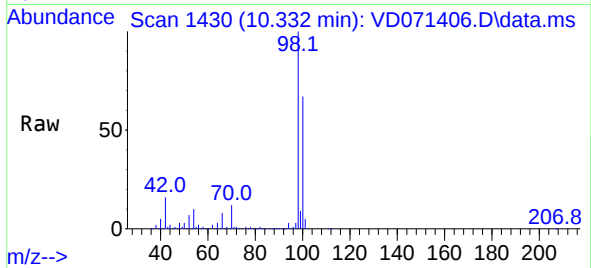




#50
Toluene-d8
Concen: 51.398 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

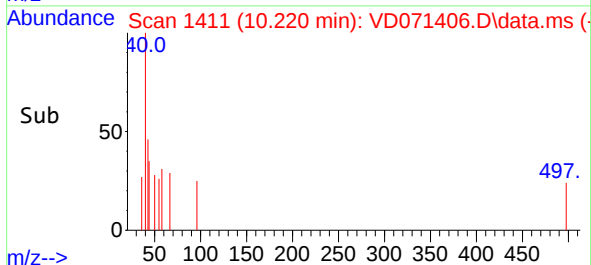
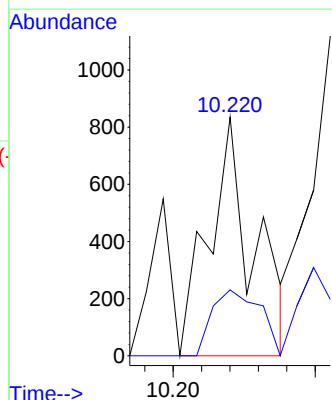
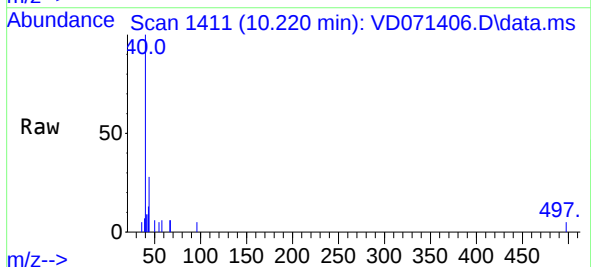
Instrument :
MSVOA_D
ClientSampleId :

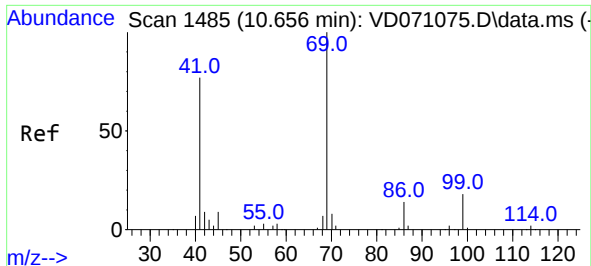
Tgt Ion: 98 Resp: 1061399
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 30.857 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 43 Resp: 909
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

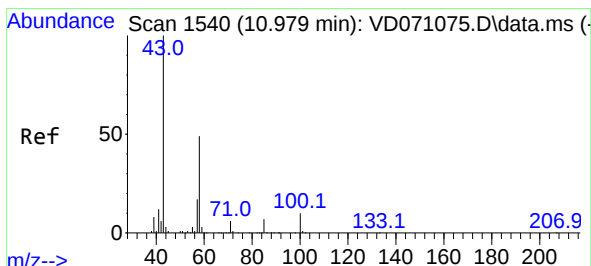
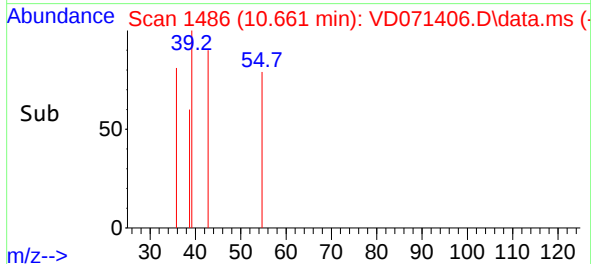
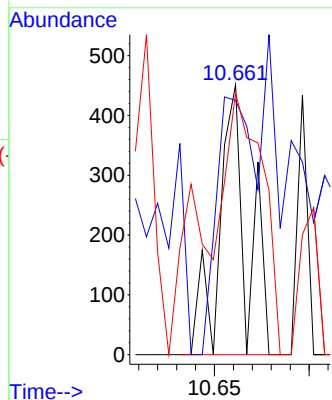
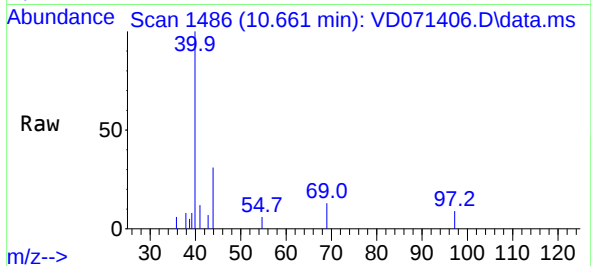




#56
Ethyl methacrylate
Concen: 6.043 ug/l
RT: 10.661 min Scan# 1485
Delta R.T. 0.005 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

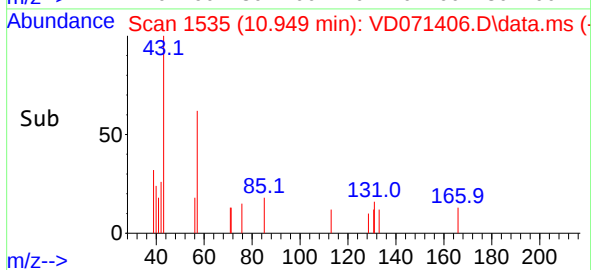
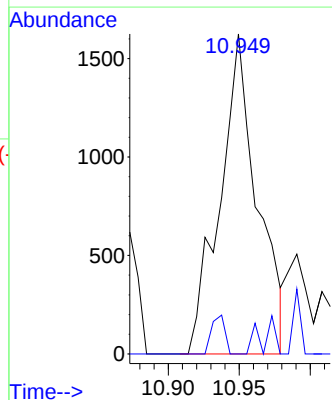
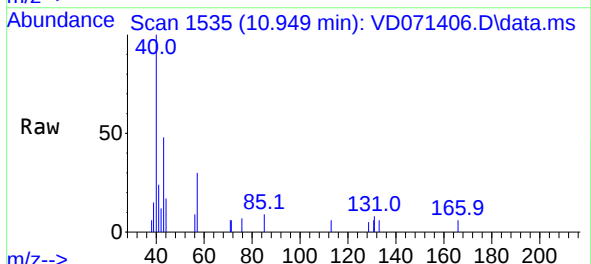
Instrument :
MSVOA_D
ClientSampleId :

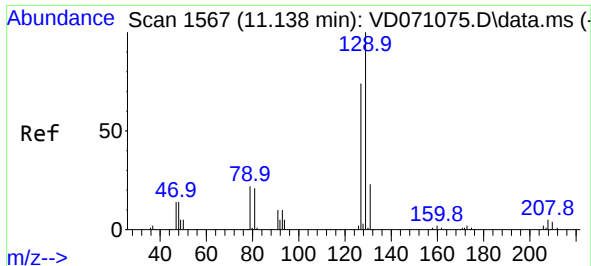
Tgt Ion: 69 Resp: 458
Ion Ratio Lower Upper
69 100
41 131.9 50.2 75.2#
39 132.5 19.8 29.8#



#59
2-Hexanone
Concen: 35.448 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 43 Resp: 2965
Ion Ratio Lower Upper
43 100
58 1.9 28.7 86.1#

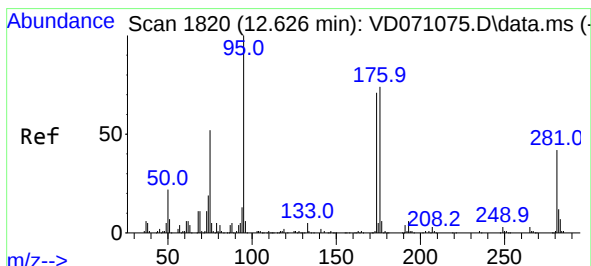
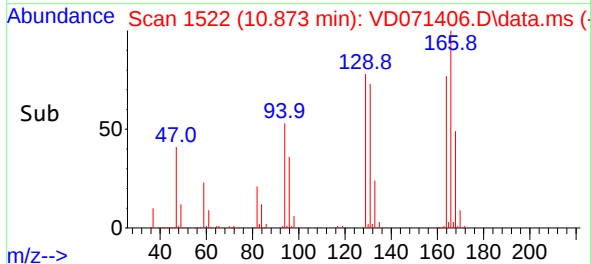
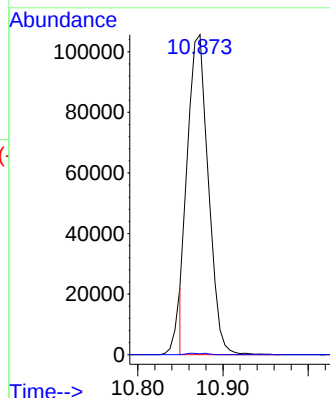
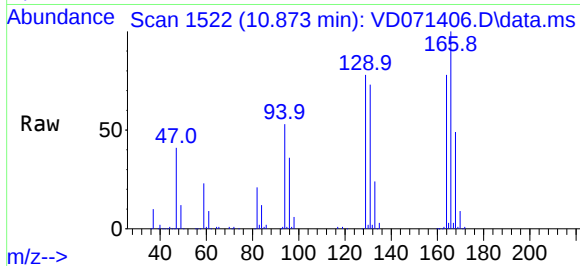




#60
Dibromochloromethane
Concen: 37.117 ug/l
RT: 10.873 min Scan# 11
Delta R.T. -0.265 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

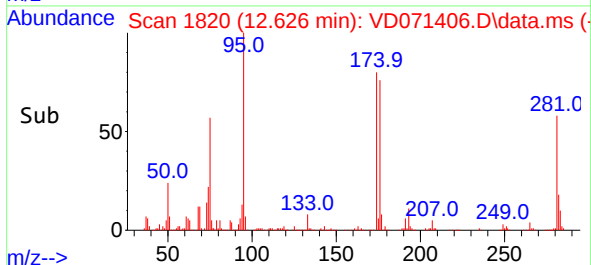
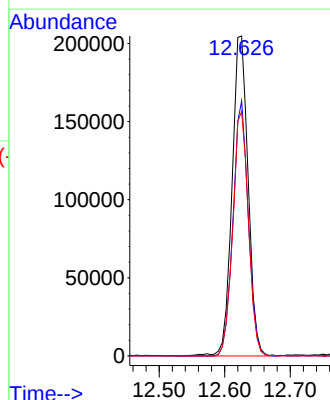
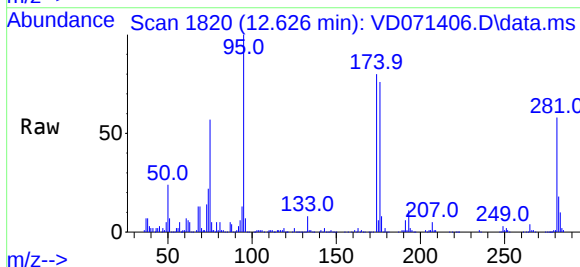
Instrument :
MSVOA_D
ClientSampleId :

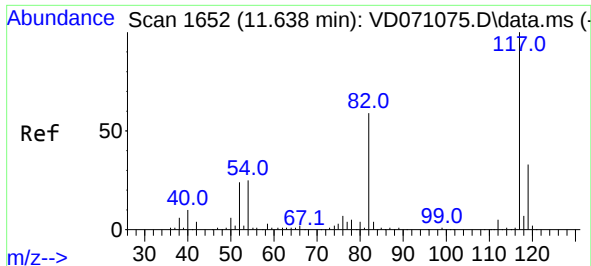
Tgt Ion:129 Resp: 178627
Ion Ratio Lower Upper
129 100
127 0.4 38.9 116.6#



#62
4-Bromofluorobenzene
Concen: 48.696 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 95 Resp: 348575
Ion Ratio Lower Upper
95 100
174 75.6 0.0 159.4
176 74.1 0.0 154.0

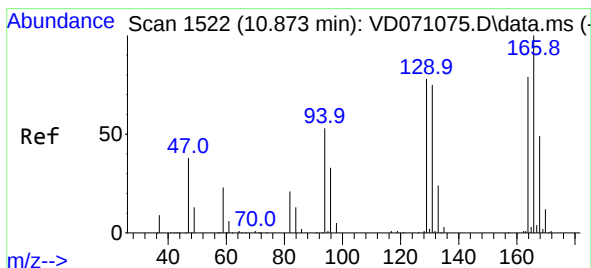
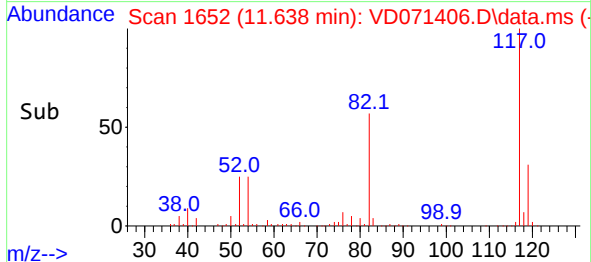
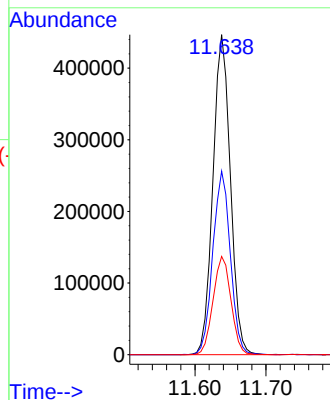
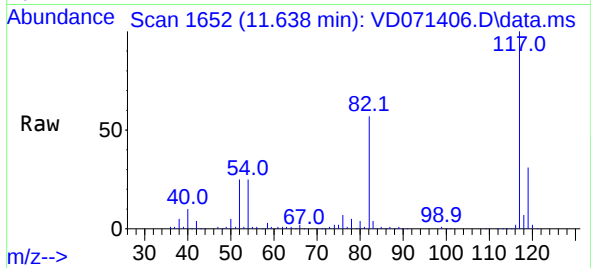




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

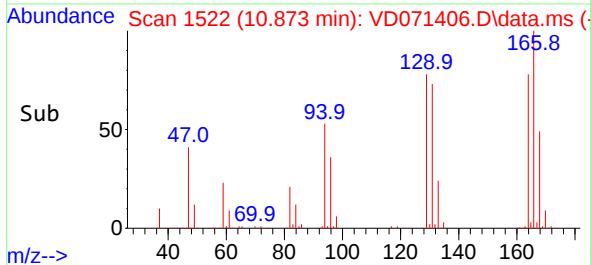
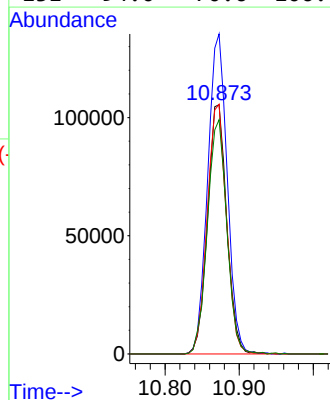
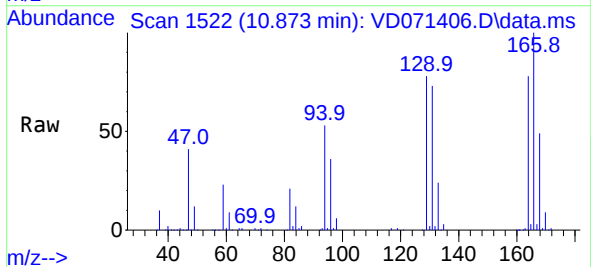
Instrument :
MSVOA_D
ClientSampleId :

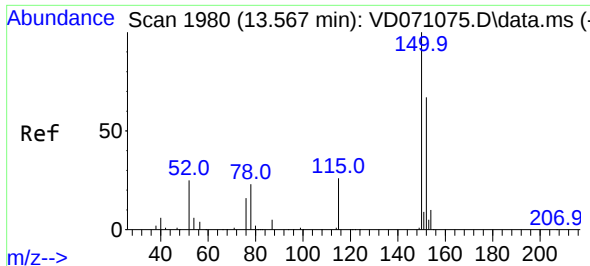
Tgt Ion:117 Resp: 761093
Ion Ratio Lower Upper
117 100
82 57.4 44.7 67.1
119 30.7 26.2 39.4



#64
Tetrachloroethene
Concen: 39.384 ug/l
RT: 10.873 min Scan# 1522
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

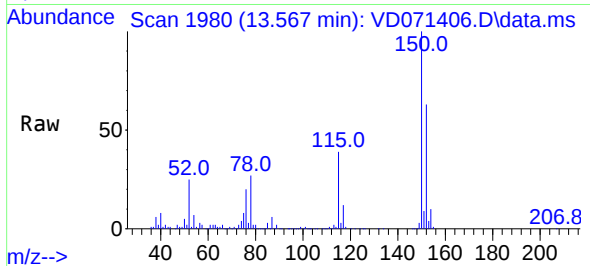
Tgt Ion:164 Resp: 190297
Ion Ratio Lower Upper
164 100
166 128.4 102.6 153.8
129 100.2 75.4 113.0
131 94.0 70.6 106.0



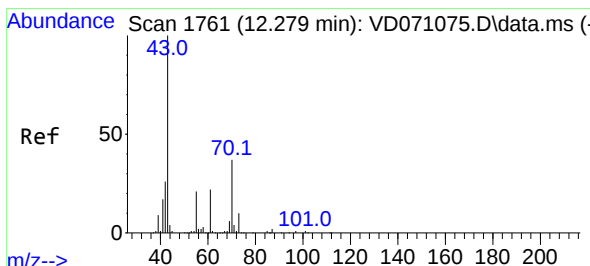
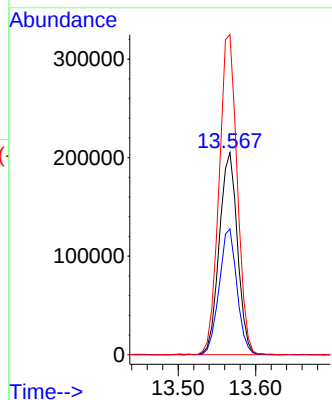
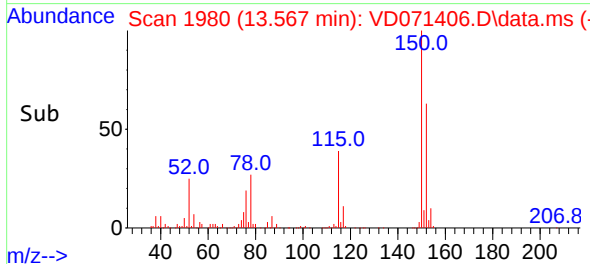


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Instrument :
MSVOA_D
ClientSampleId :

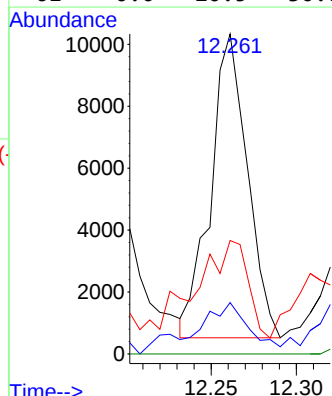
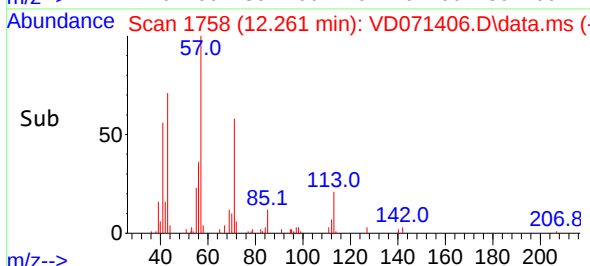
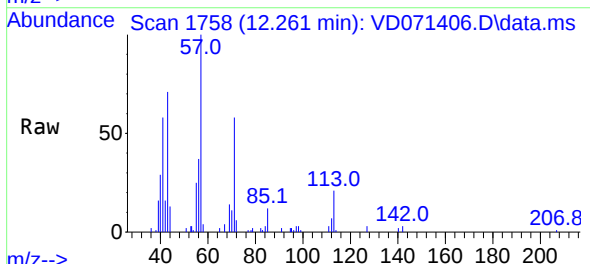


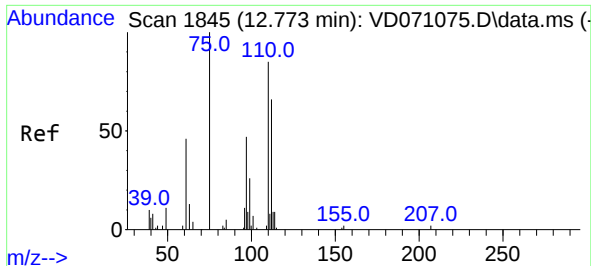
Tgt Ion:152 Resp: 335029
Ion Ratio Lower Upper
152 100
115 61.2 29.8 89.3
150 158.4 0.0 349.2



#74
N-ethyl acetate
Concen: 7.665 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Tgt Ion: 43 Resp: 14724
Ion Ratio Lower Upper
43 100
70 15.3 36.6 55.0#
55 44.3 22.5 33.7#
61 0.0 20.5 30.7#

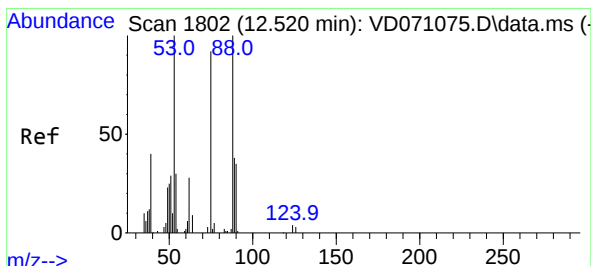
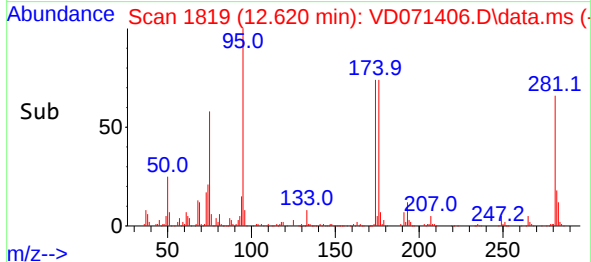
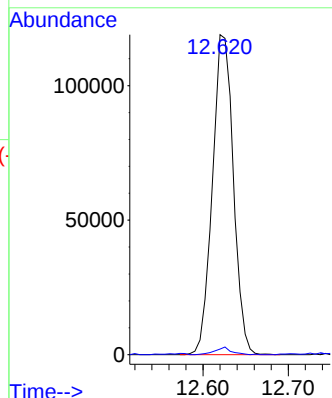
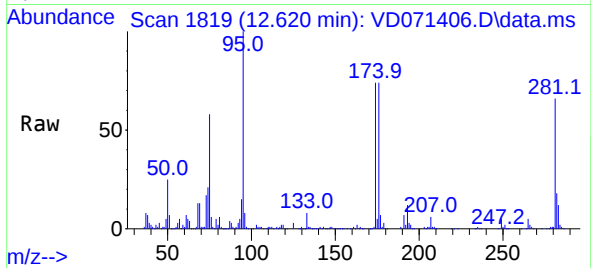




#76
1,2,3-Trichloropropane
Concen: 63.584 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

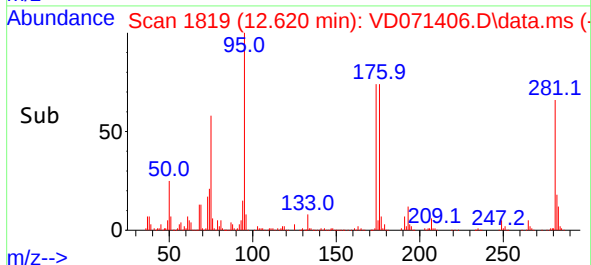
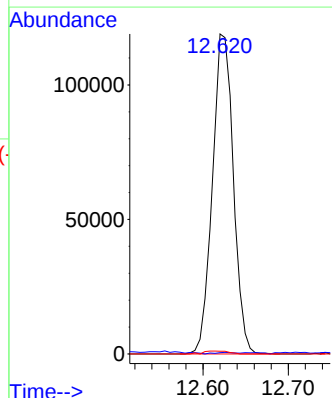
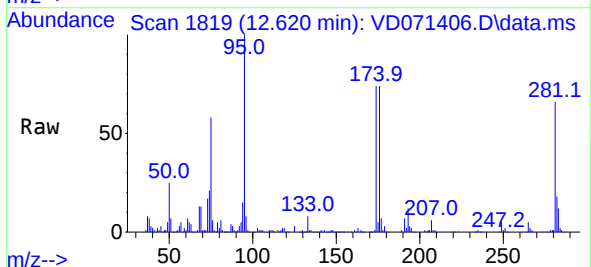
Instrument :
MSVOA_D
ClientSampleId :

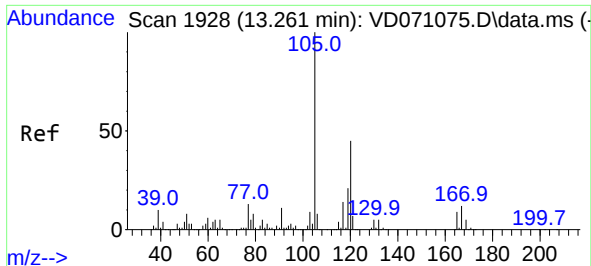
Tgt Ion: 75 Resp: 202961
Ion Ratio Lower Upper
75 100
77 1.9 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 137.319 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

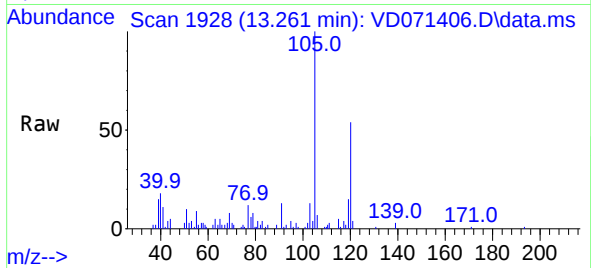
Tgt Ion: 75 Resp: 202961
Ion Ratio Lower Upper
75 100
53 0.5 62.6 94.0#
89 1.1 34.5 51.7#





#84
1,2,4-Trimethylbenzene
Concen: 1.766 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.000 min
Lab File: VD071406.D
Acq: 21 Dec 2021 13:02

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:105 Resp: 34483
Ion Ratio Lower Upper
105 100
120 55.8 22.9 68.7

