

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061323\
 Data File : VD076407.D
 Acq On : 13 Jun 2023 16:18
 Operator : KP/SY
 Sample : 03138-01RE
 Misc : 5.10G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WC-1RE

Quant Time: Jun 14 05:48:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061223S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 13 02:01:34 2023
 Response via : Initial Calibration

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

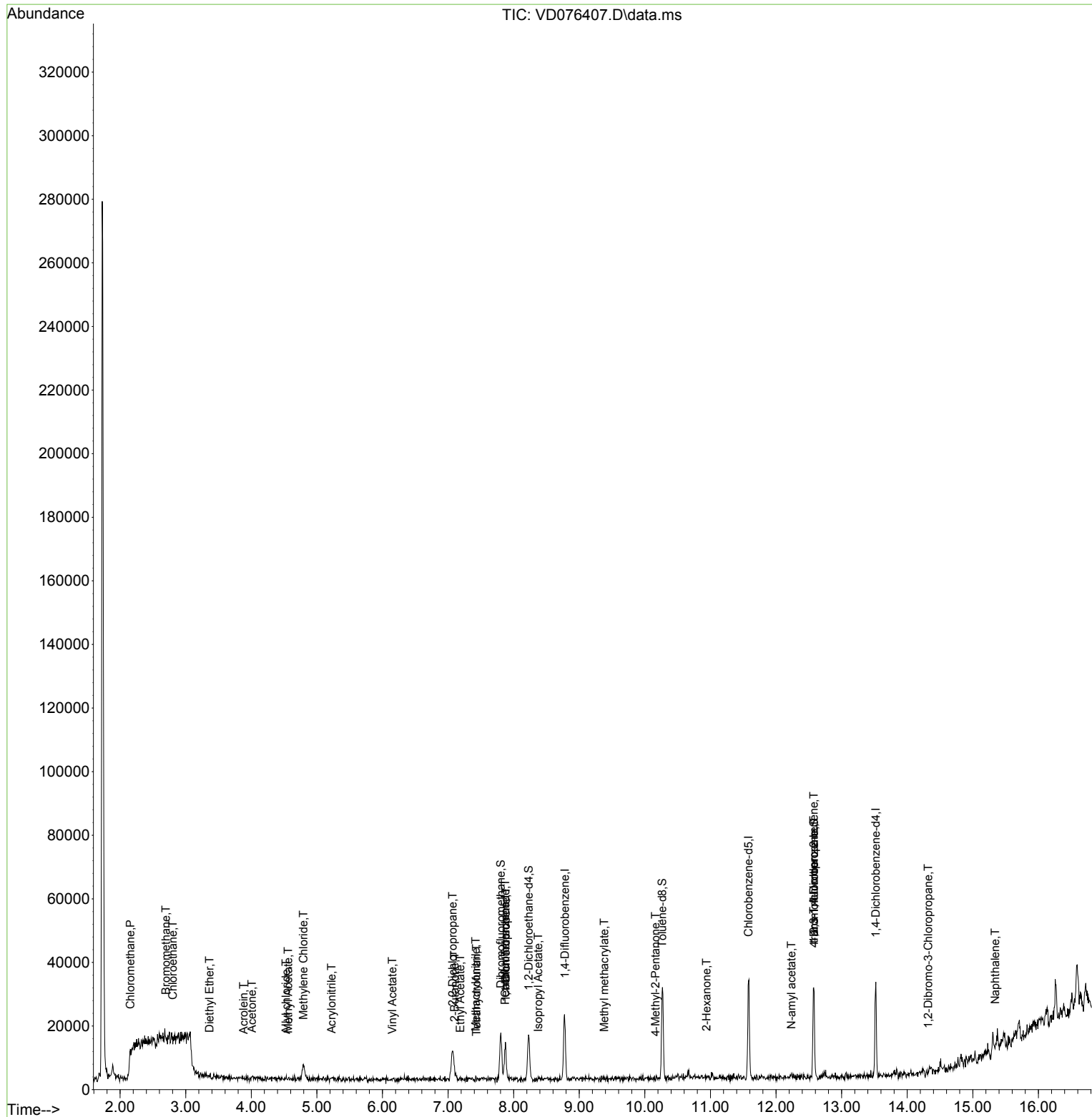
Internal Standards						
1) Pentafluorobenzene	7.869	168	9326	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	17579	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	17920	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	7760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	10648	98.850	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 197.700%#			
35) Dibromofluoromethane	7.804	113	10122	89.090	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 178.180%#			
50) Toluene-d8	10.263	98	20694	48.064	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.120%			
62) 4-Bromofluorobenzene	12.581	95	8967	60.708	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 121.420%			
Target Compounds					Qvalue	
3) Chloromethane	2.158	50	525	3.329	ug/l #	41
5) Bromomethane	2.699	94	422	5.336	ug/l #	70
6) Chloroethane	2.805	64	160	1.760	ug/l #	43
8) Diethyl Ether	3.363	74	67	1.228	ug/l #	12
13) Acrolein	3.881	56	55	5.325	ug/l #	15
14) Allyl chloride	4.528	41	253	1.389	ug/l #	49
15) Acrylonitrile	5.222	53	80	2.882	ug/l #	18
16) Acetone	4.010	43	181	7.644	ug/l #	32
18) Methyl Acetate	4.563	43	370	3.427	ug/l #	42
20) Methylene Chloride	4.793	84	3037	20.721	ug/l #	79
23) Vinyl Acetate	6.152	43	246	1.545	ug/l #	63
25) 2-Butanone	7.099	43	540	14.580	ug/l #	37
26) 2,2-Dichloropropane	7.069	77	598	3.223	ug/l #	49
28) Bromochloromethane	7.363	49	68	Below Cal	#	1
29) Tetrahydrofuran	7.434	42	68	2.878	ug/l #	23
36) 1,1-Dichloropropene	7.881	75	355	2.141	ug/l #	39
37) Ethyl Acetate	7.187	43	187	2.144	ug/l #	62
38) Carbon Tetrachloride	7.875	117	909	5.904	ug/l #	11
41) Methacrylonitrile	7.422	41	108	1.935	ug/l #	1
43) Isopropyl Acetate	8.375	43	371	2.029	ug/l #	43
48) Methyl methacrylate	9.381	41	262	2.989	ug/l #	1
51) 4-Methyl-2-Pentanone	10.163	43	387	4.261	ug/l #	28
59) 2-Hexanone	10.940	43	576	9.047	ug/l #	16
74) N-amyl acetate	12.234	43	505	2.822	ug/l #	45
76) 1,2,3-Trichloropropane	12.575	75	4387	60.472	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	4387	108.270	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.322	75	61	3.204	ug/l #	1
95) Naphthalene	15.339	128	662	2.090	ug/l #	69

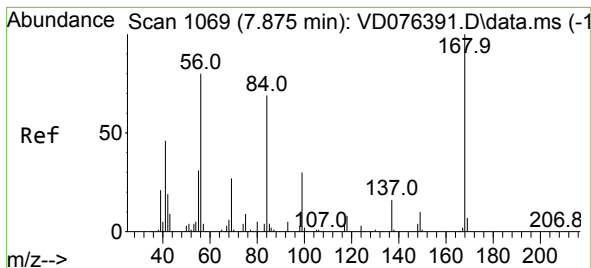
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 13 02:01:34 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

Instrument :

MSVOA_D

ClientSampleId :

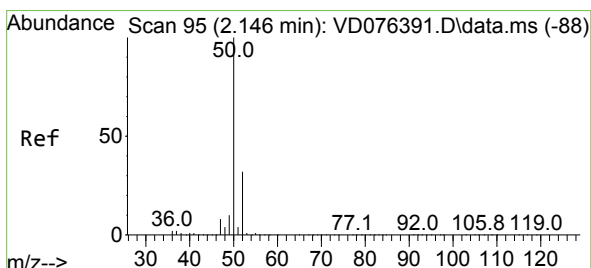
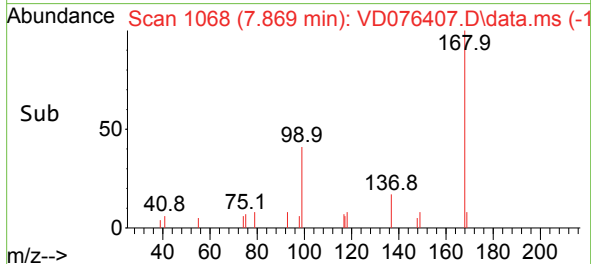
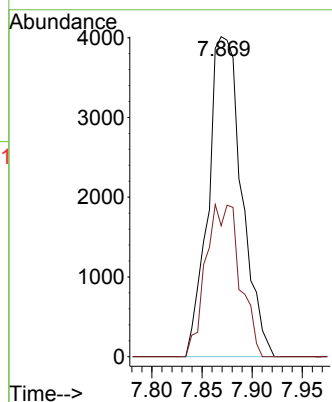
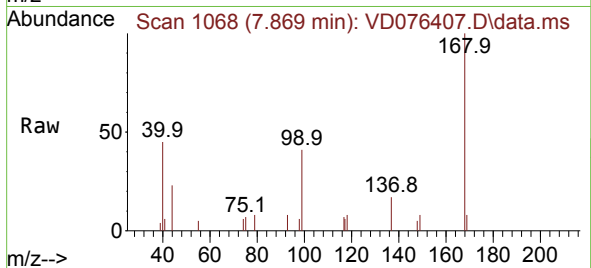
WC-1RE

Tgt Ion:168 Resp: 9326

Ion Ratio Lower Upper

168 100

99 41.0 36.7 55.1



#3

Chloromethane

Concen: 3.329 ug/l

RT: 2.158 min Scan# 97

Delta R.T. 0.012 min

Lab File: VD076407.D

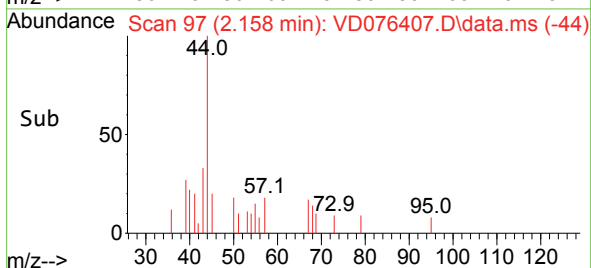
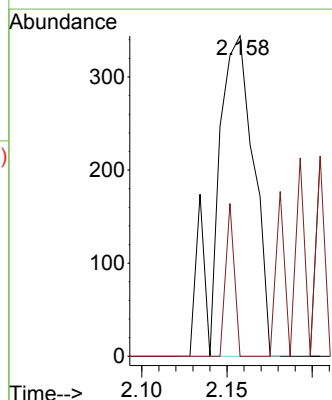
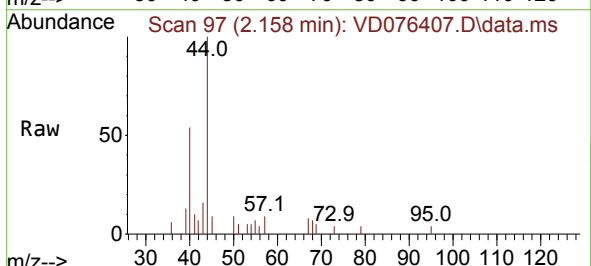
Acq: 13 Jun 2023 16:18

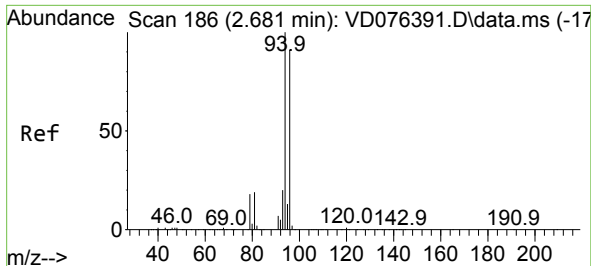
Tgt Ion: 50 Resp: 525

Ion Ratio Lower Upper

50 100

52 0.0 26.6 40.0#

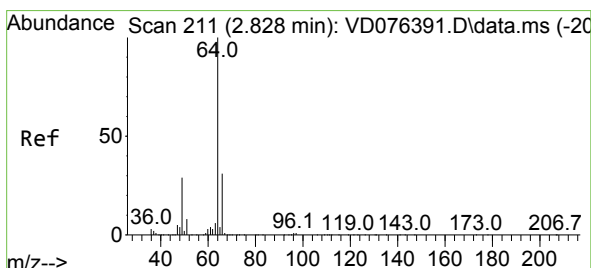
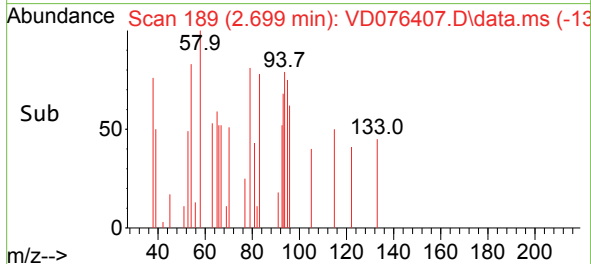
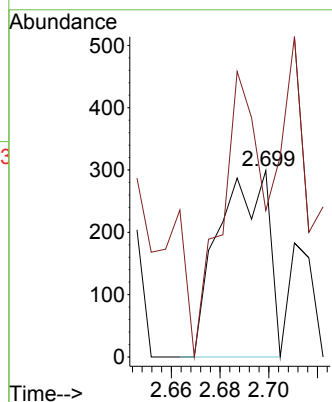
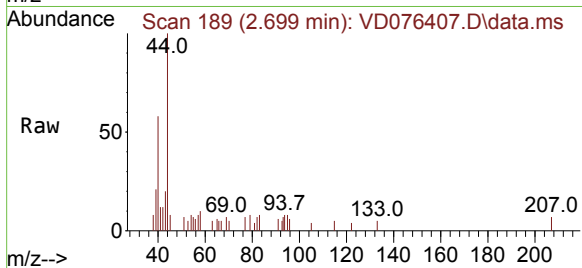




#5
Bromomethane
Concen: 5.336 ug/l
RT: 2.699 min Scan# 11
Delta R.T. 0.018 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

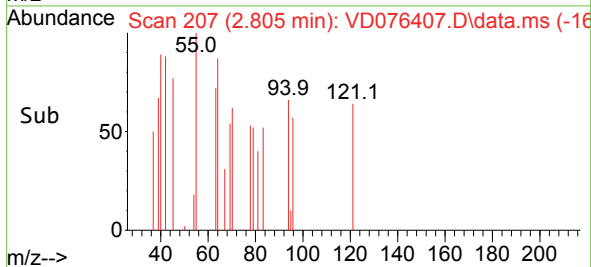
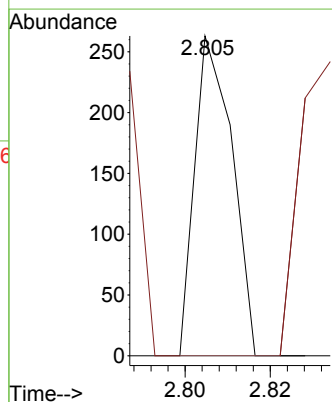
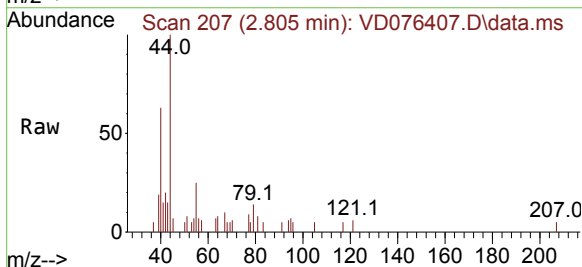
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

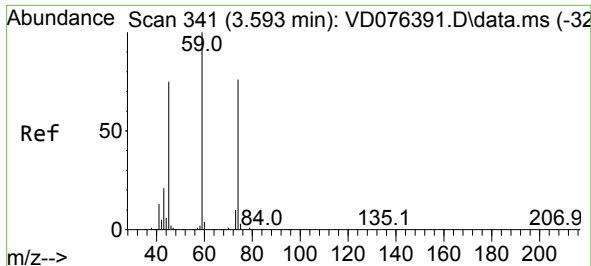
Tgt Ion: 94 Resp: 422
Ion Ratio Lower Upper
94 100
96 123.5 75.8 113.8#



#6
Chloroethane
Concen: 1.760 ug/l
RT: 2.805 min Scan# 207
Delta R.T. -0.023 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 64 Resp: 160
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#

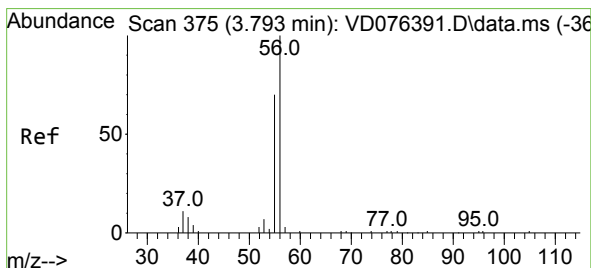
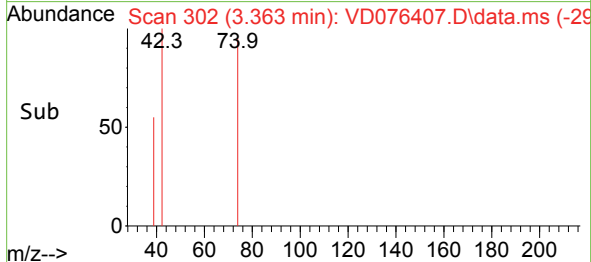
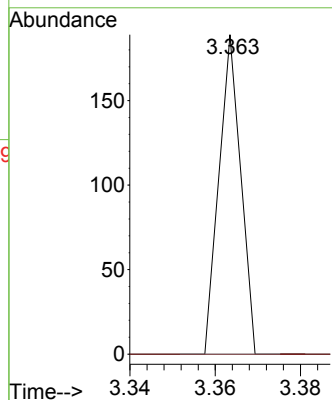
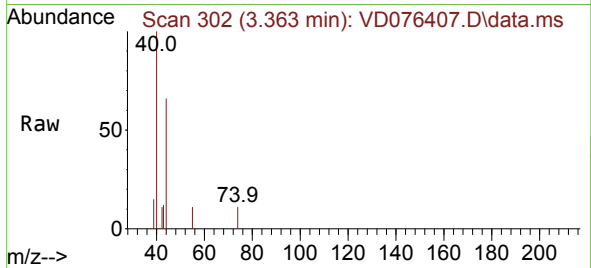




#8
Diethyl Ether
Concen: 1.228 ug/l
RT: 3.363 min Scan# 30
Delta R.T. -0.229 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

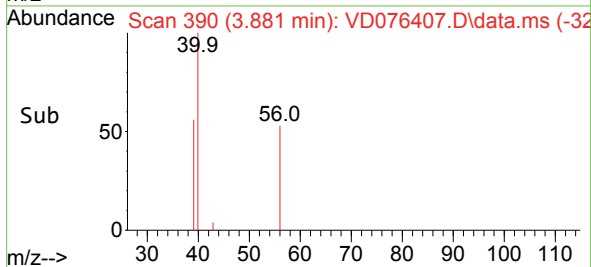
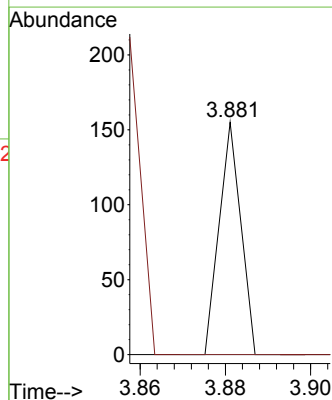
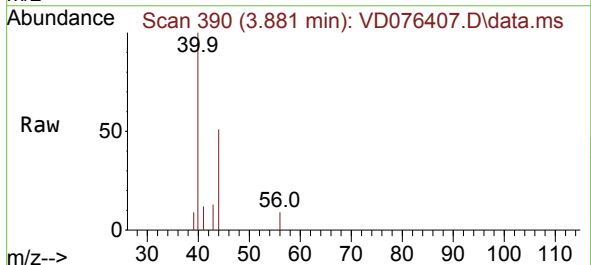
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

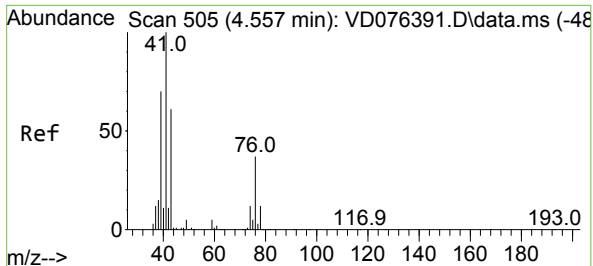
Tgt Ion: 74 Resp: 67
Ion Ratio Lower Upper
74 100
45 0.0 37.5 112.7#



#13
Acrolein
Concen: 5.325 ug/l
RT: 3.881 min Scan# 390
Delta R.T. 0.088 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 56 Resp: 55
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

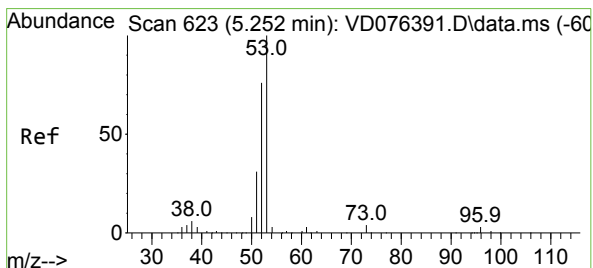
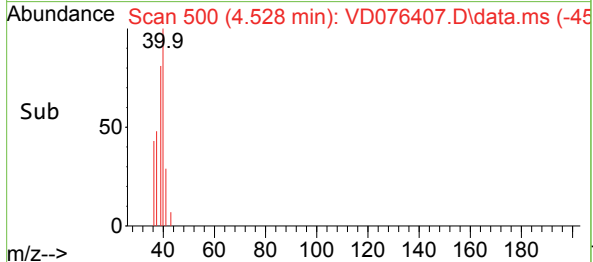
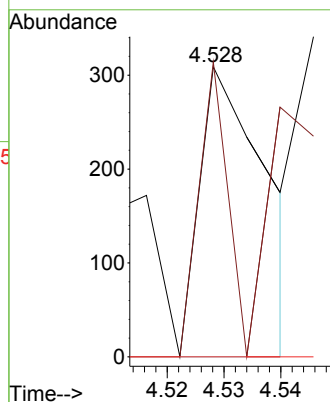
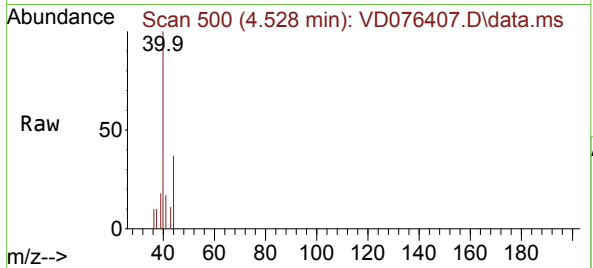




#14
 Allyl chloride
 Concen: 1.389 ug/l
 RT: 4.528 min Scan# 505
 Delta R.T. -0.029 min
 Lab File: VD076407.D
 Acq: 13 Jun 2023 16:18

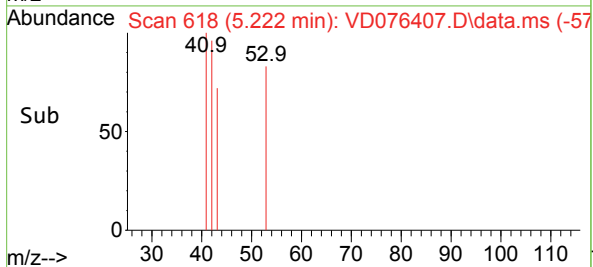
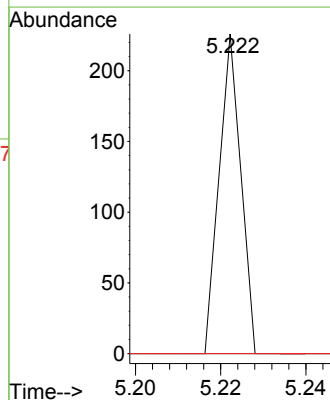
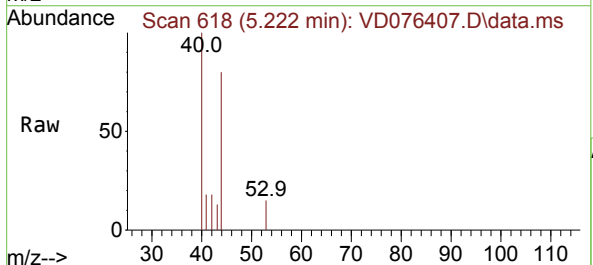
Instrument :
 MSVOA_D
 ClientSampleId :
 WC-1RE

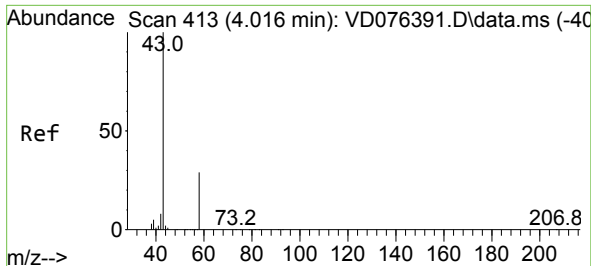
Tgt Ion: 41	Resp:	253
Ion	Ratio	Lower Upper
41	100	
39	43.9	53.8 80.6#
76	0.0	45.8 68.8#



#15
 Acrylonitrile
 Concen: 2.882 ug/l
 RT: 5.222 min Scan# 618
 Delta R.T. -0.029 min
 Lab File: VD076407.D
 Acq: 13 Jun 2023 16:18

Tgt Ion: 53	Resp:	80
Ion	Ratio	Lower Upper
53	100	
52	0.0	65.0 97.4#
51	0.0	28.3 42.5#

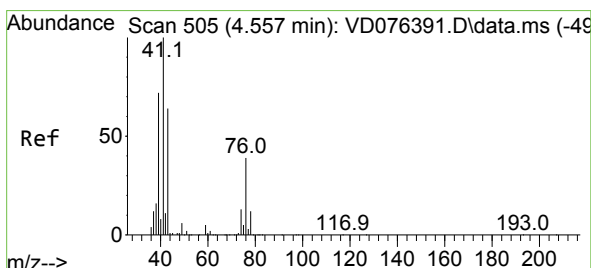
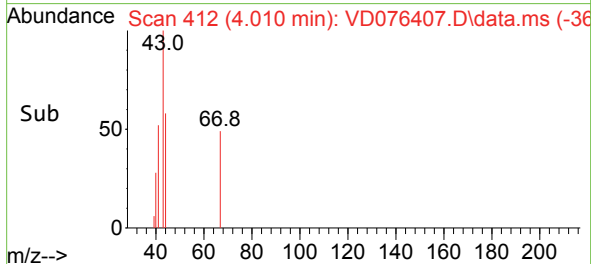
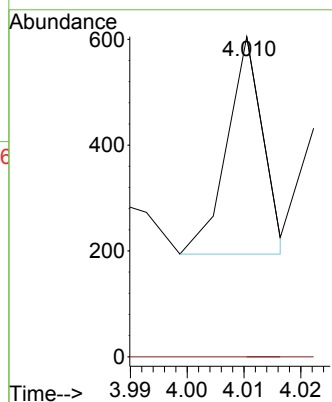
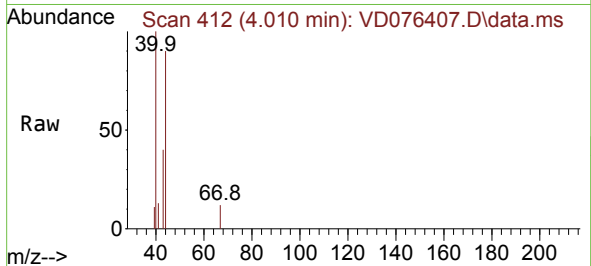




#16
Acetone
Concen: 7.644 ug/l
RT: 4.010 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

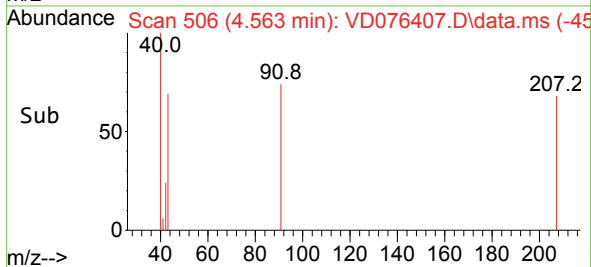
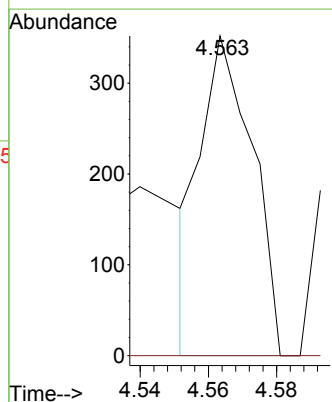
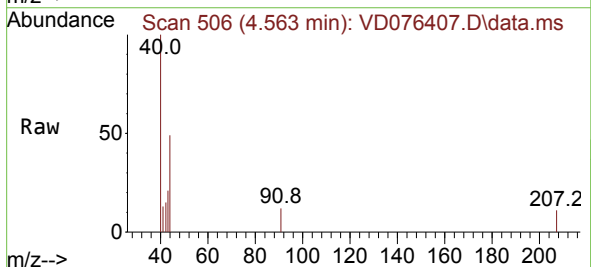
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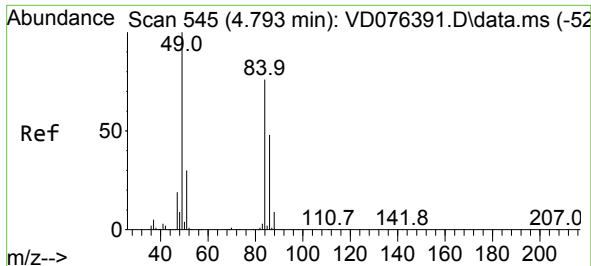
Tgt Ion: 43 Resp: 181
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#



#18
Methyl Acetate
Concen: 3.427 ug/l
RT: 4.563 min Scan# 506
Delta R.T. 0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#

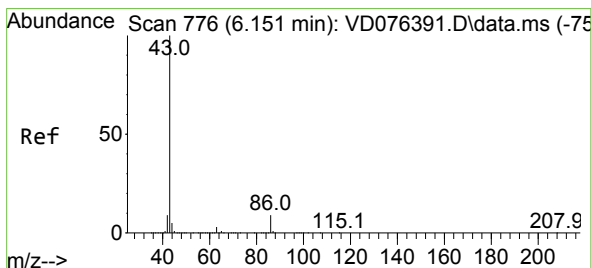
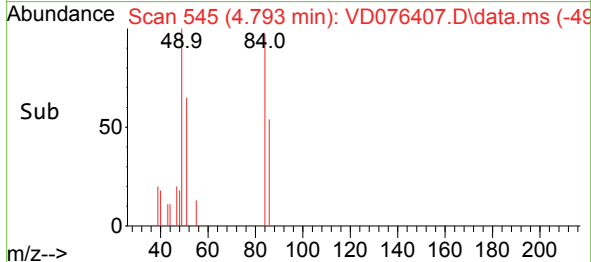
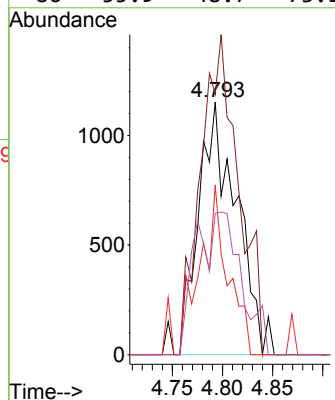
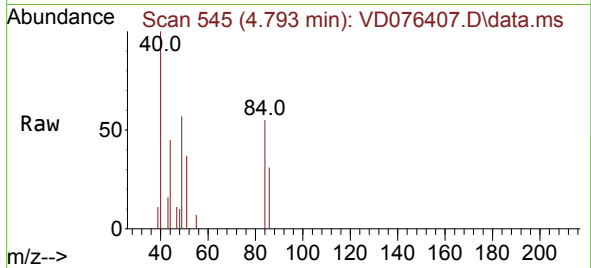




#20
Methylene Chloride
Concen: 20.721 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

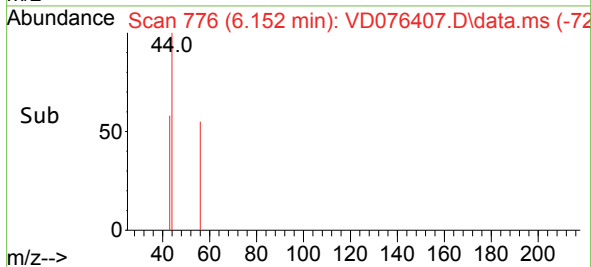
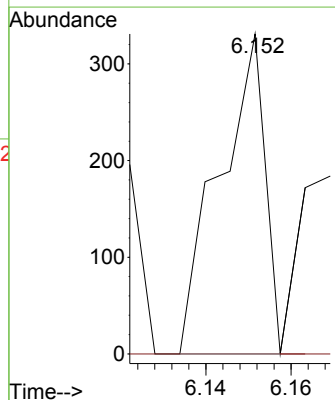
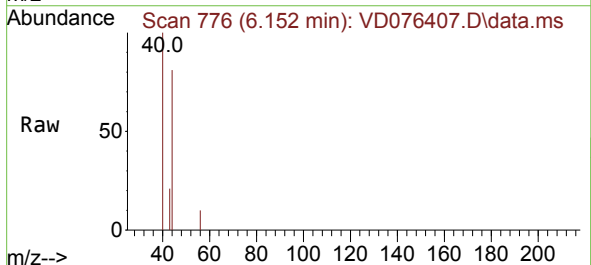
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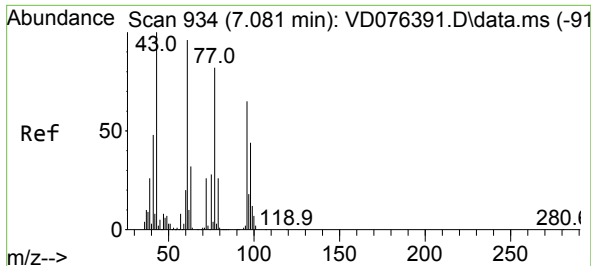
Tgt Ion:	84	Resp:	3037
Ion	Ratio	Lower	Upper
84	100		
49	103.0	71.4	107.2
51	67.0	24.5	36.7#
86	55.9	48.7	73.1



#23
Vinyl Acetate
Concen: 1.545 ug/l
RT: 6.152 min Scan# 776
Delta R.T. 0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion:	43	Resp:	246
Ion	Ratio	Lower	Upper
43	100		
86	0.0	12.5	18.7#

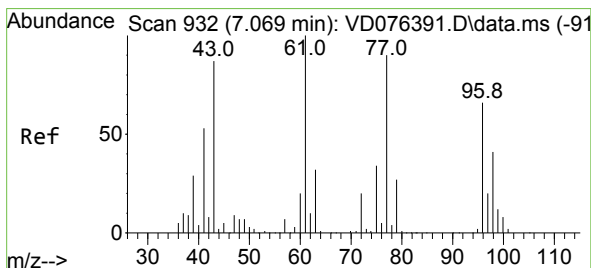
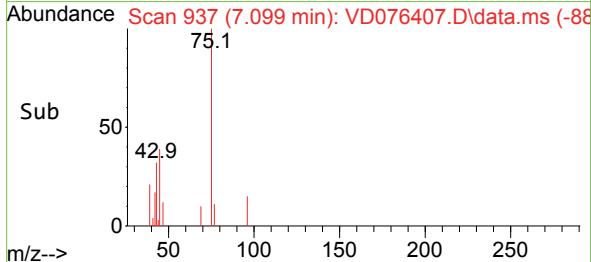
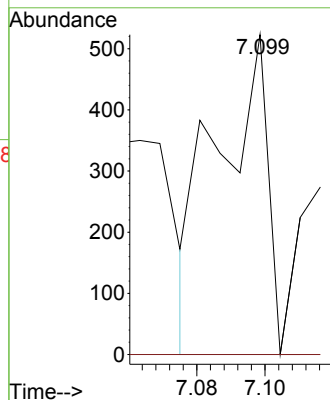
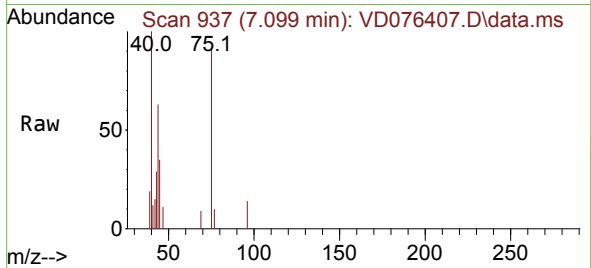




#25
2-Butanone
Concen: 14.580 ug/l
RT: 7.099 min Scan# 91
Delta R.T. 0.018 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

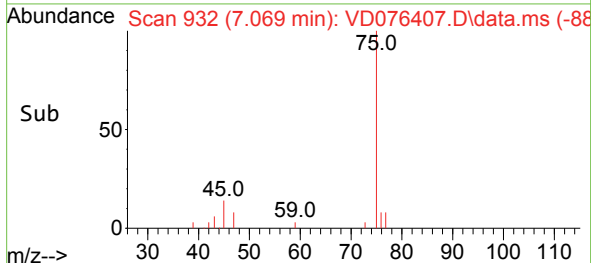
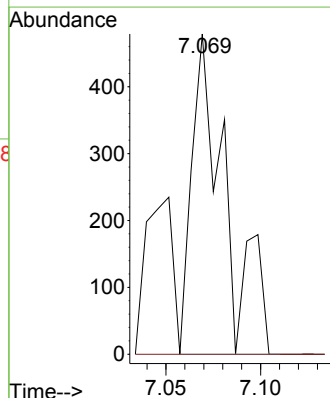
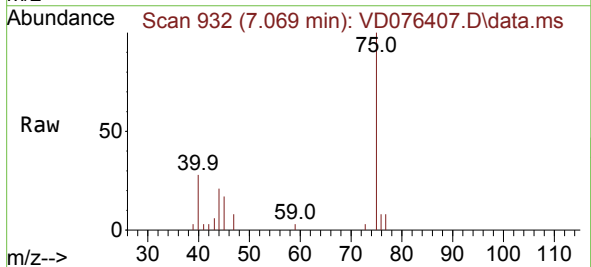
Instrument :
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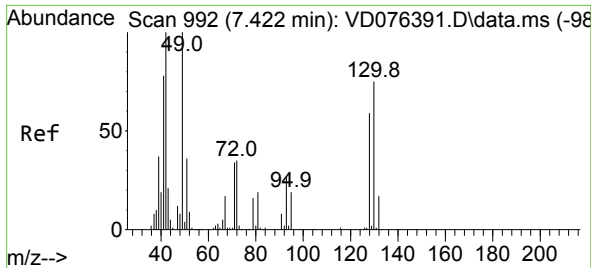
Tgt Ion: 43 Resp: 540
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#26
2,2-Dichloropropane
Concen: 3.223 ug/l
RT: 7.069 min Scan# 932
Delta R.T. 0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 77 Resp: 598
Ion Ratio Lower Upper
77 100
97 0.0 13.2 39.6#

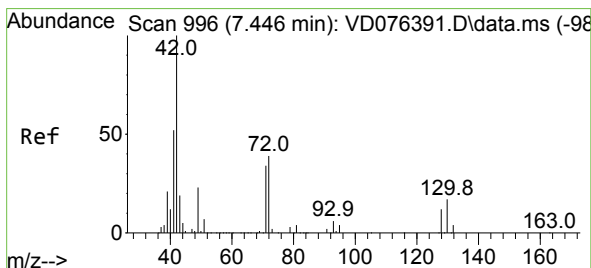
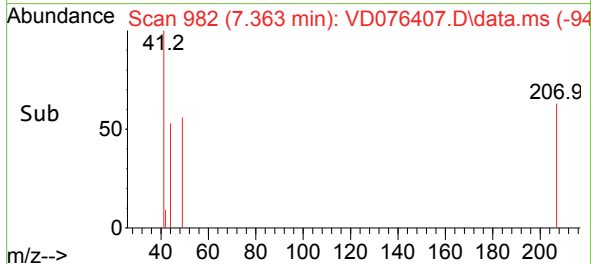
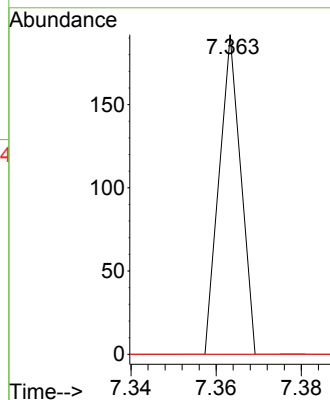
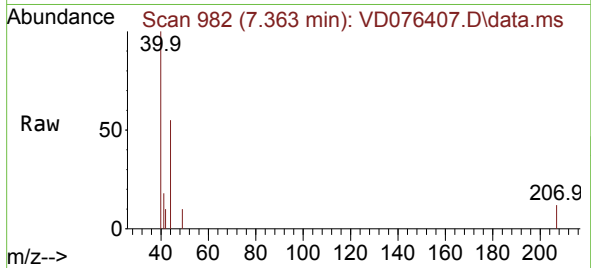




#28
Bromochloromethane
Concen: Below Cal
RT: 7.363 min Scan# 91
Delta R.T. -0.059 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

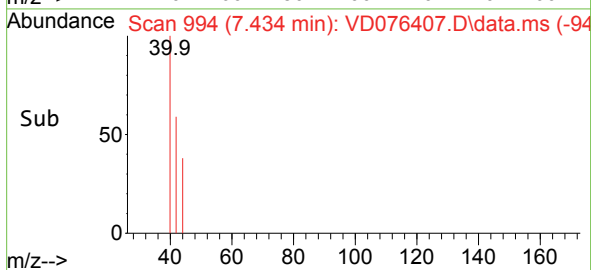
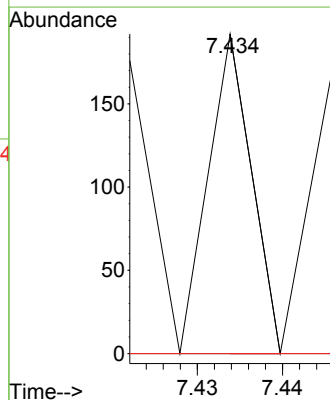
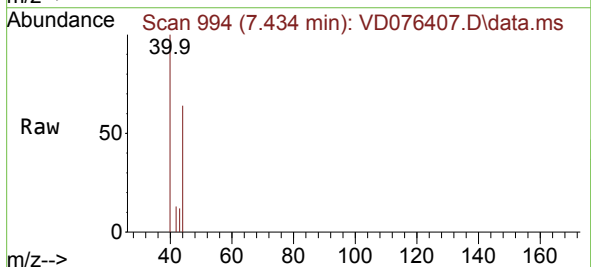
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

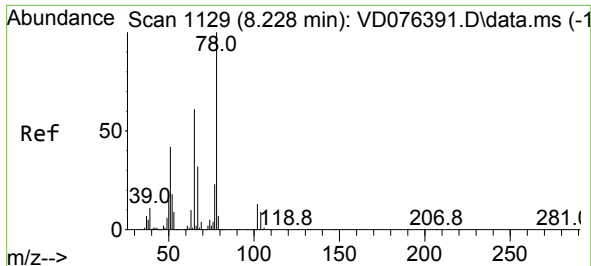
Tgt Ion: 49 Resp: 68
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 0.0 83.2 124.8#



#29
Tetrahydrofuran
Concen: 2.878 ug/l
RT: 7.434 min Scan# 994
Delta R.T. -0.012 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 42 Resp: 68
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#





#33

1,2-Dichloroethane-d4

Concen: 98.850 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

Instrument :

MSVOA_D

ClientSampleId :

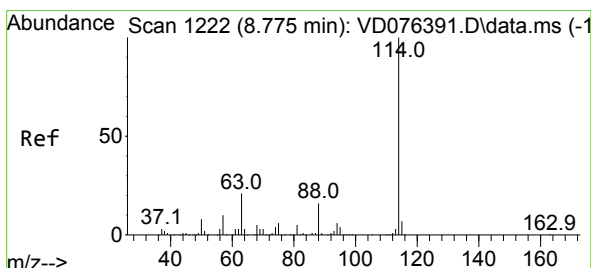
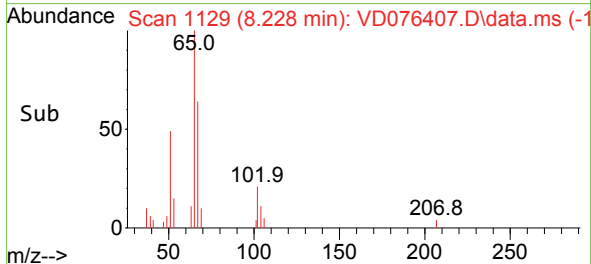
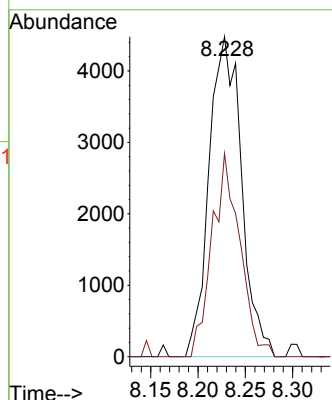
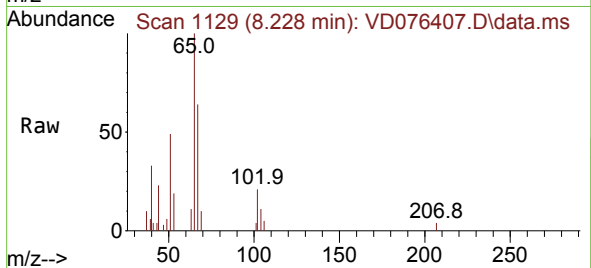
WC-1RE

Tgt Ion: 65 Resp: 10648

Ion Ratio Lower Upper

65 100

67 54.7 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

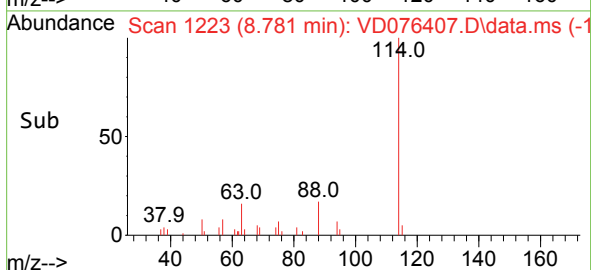
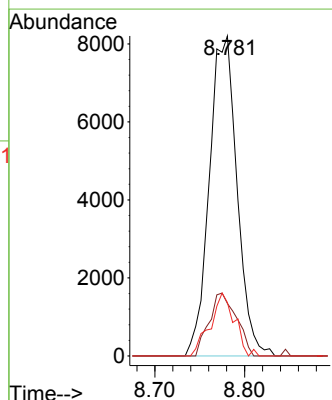
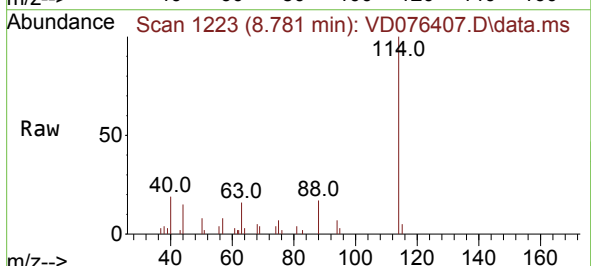
Tgt Ion: 114 Resp: 17579

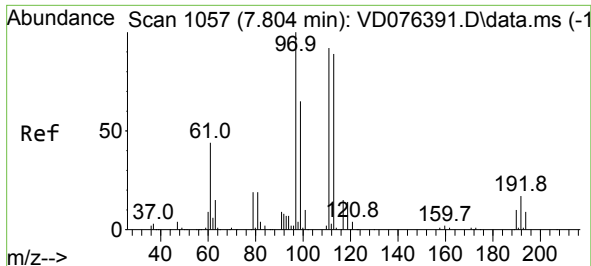
Ion Ratio Lower Upper

114 100

63 16.4 0.0 33.4

88 16.7 0.0 26.2

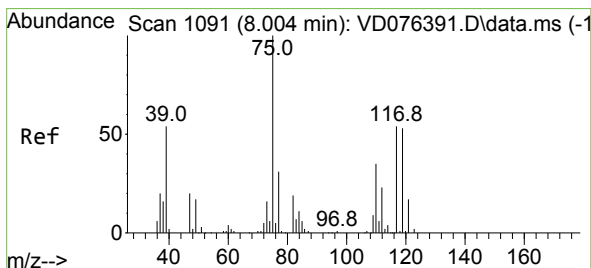
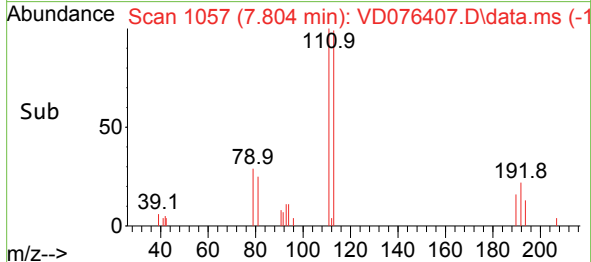
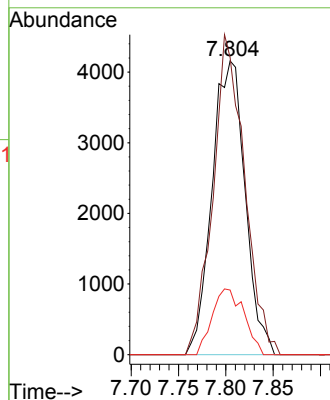
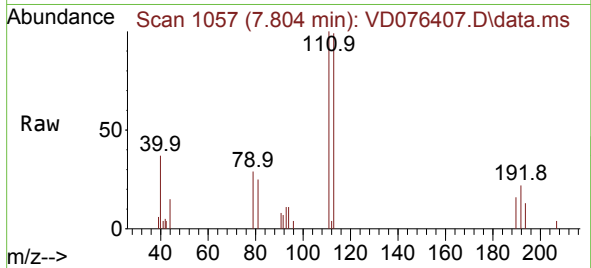




#35
Dibromofluoromethane
Concen: 89.090 ug/l
RT: 7.804 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

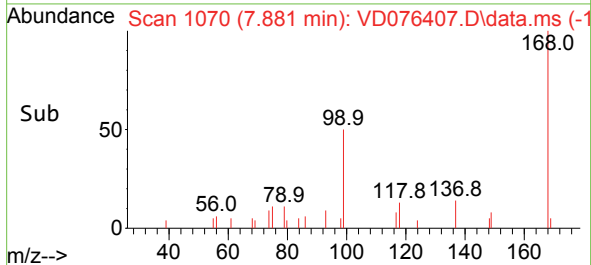
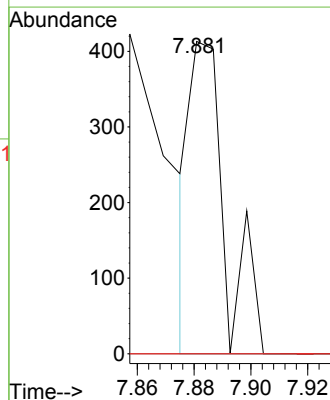
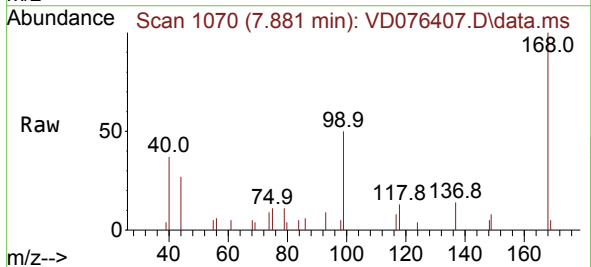
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

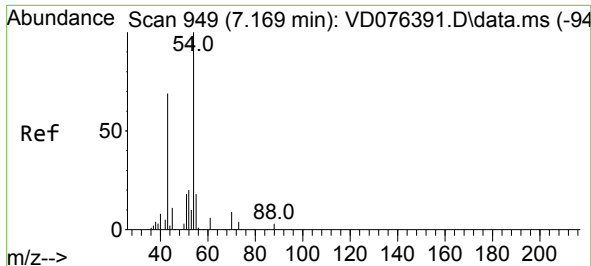
Tgt Ion:113 Resp: 10122
Ion Ratio Lower Upper
113 100
111 103.8 84.7 127.1
192 21.4 16.8 25.2



#36
1,1-Dichloropropene
Concen: 2.141 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. -0.123 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 75 Resp: 355
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 2.144 ug/l

RT: 7.187 min Scan# 91

Delta R.T. 0.018 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

Instrument :

MSVOA_D

ClientSampleId :

WC-1RE

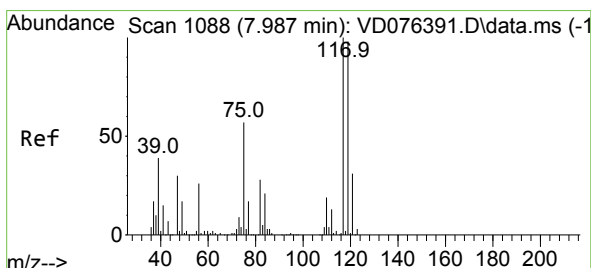
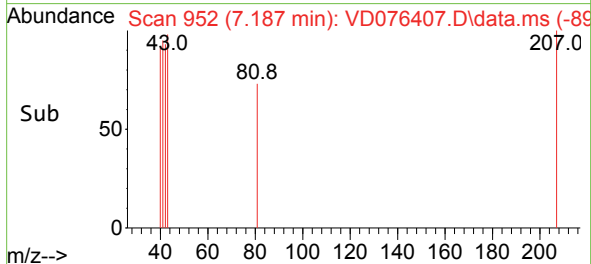
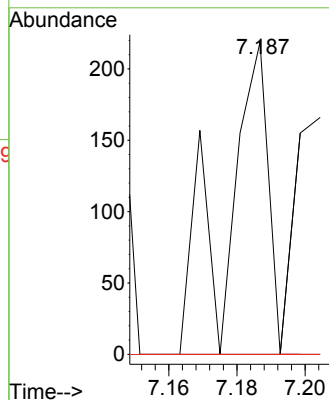
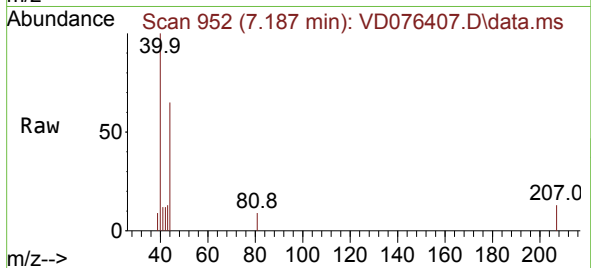
Tgt Ion: 43 Resp: 187

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

70 0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 5.904 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.112 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

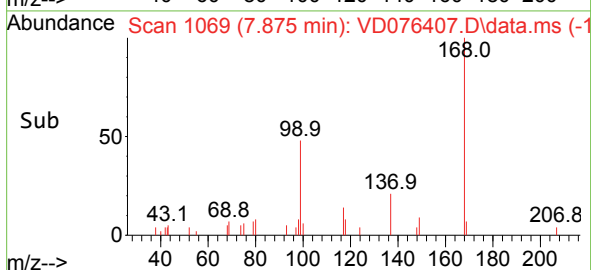
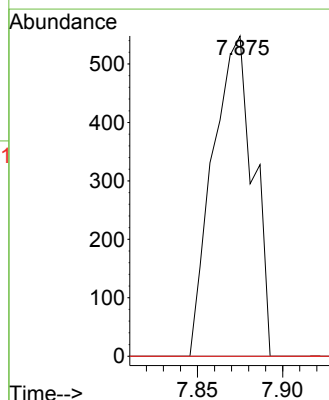
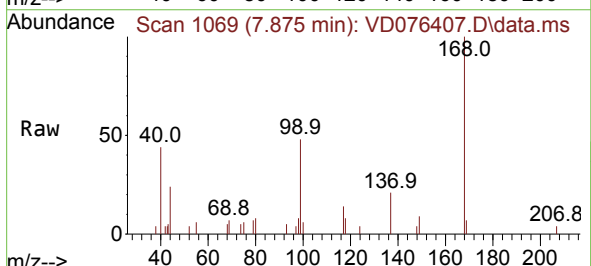
Tgt Ion: 117 Resp: 909

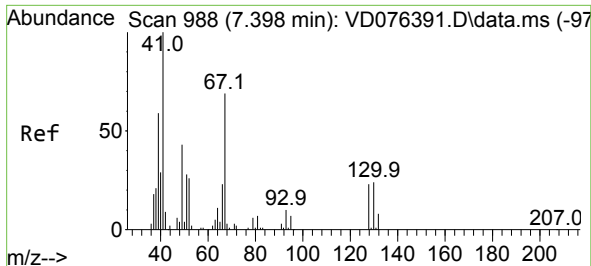
Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

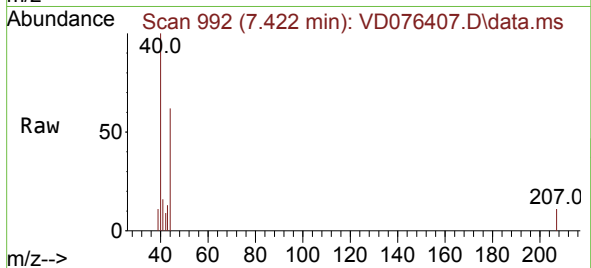
121 0.0 24.2 36.2#



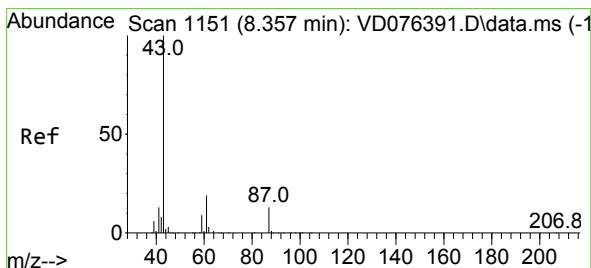
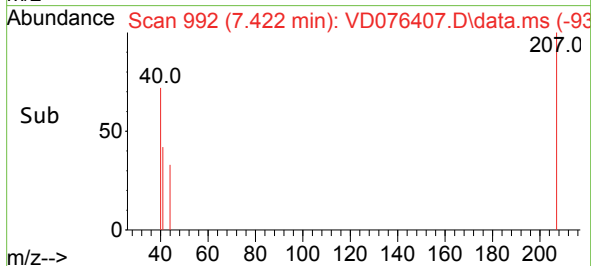
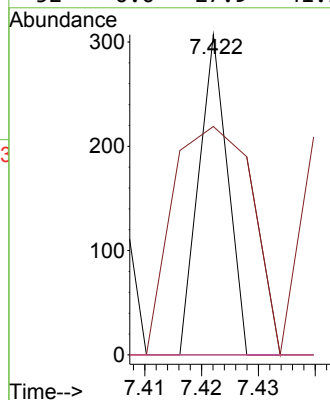


#41
Methacrylonitrile
Concen: 1.935 ug/l
RT: 7.422 min Scan# 91
Delta R.T. 0.024 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

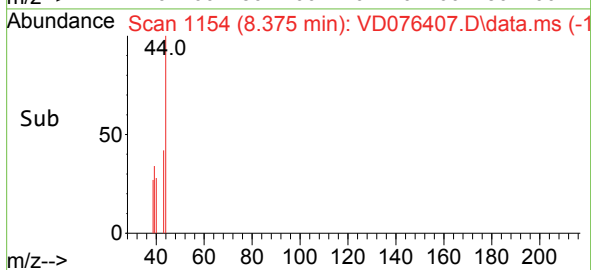
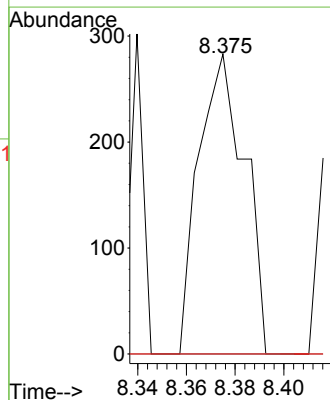
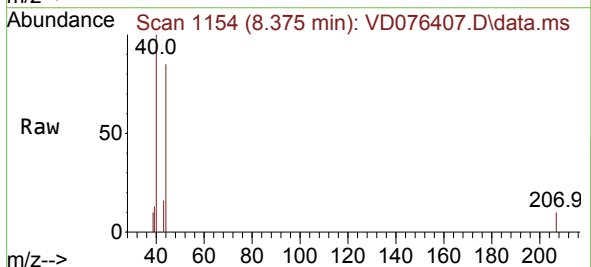


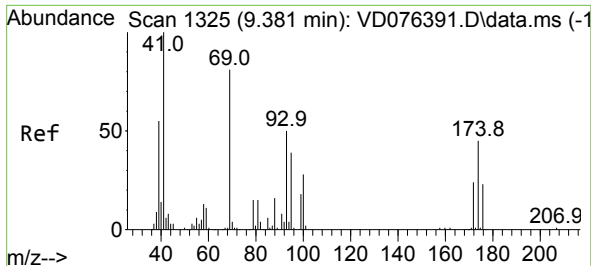
Tgt Ion: 41	Resp: 108
Ion Ratio	Lower Upper
41 100	
39 198.1	34.0 51.0#
67 0.0	77.0 115.4#
52 0.0	27.9 41.9#



#43
Isopropyl Acetate
Concen: 2.029 ug/l
RT: 8.375 min Scan# 1154
Delta R.T. 0.018 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 43	Resp: 371
Ion Ratio	Lower Upper
43 100	
61 0.0	31.4 47.0#
87 0.0	14.9 22.3#





#48

Methyl methacrylate

Concen: 2.989 ug/l

RT: 9.381 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD076407.D

Acq: 13 Jun 2023 16:18

Instrument :

MSVOA_D

ClientSampleId :

WC-1RE

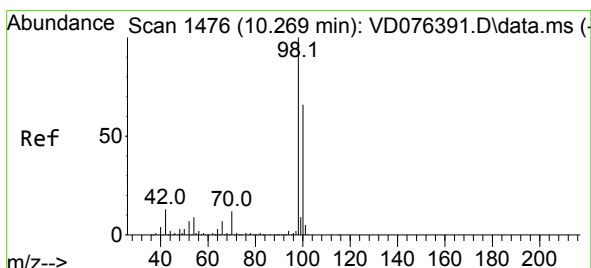
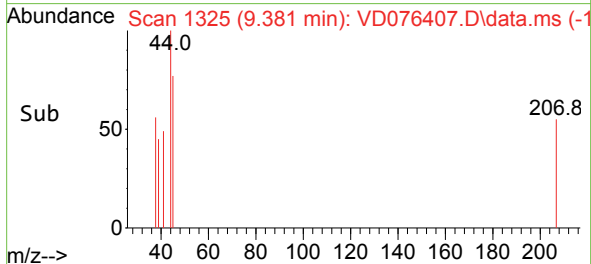
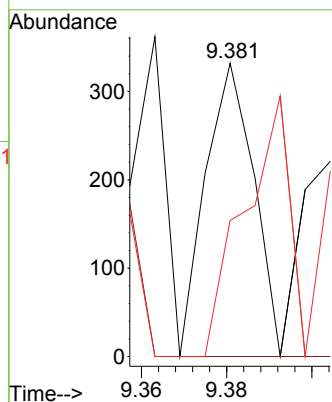
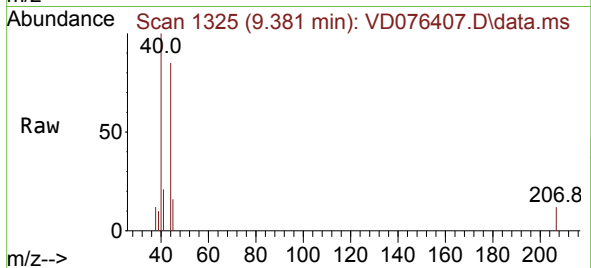
Tgt Ion: 41 Resp: 262

Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 0.0 41.4 62.2#



#50

Toluene-d8

Concen: 48.064 ug/l

RT: 10.263 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VD076407.D

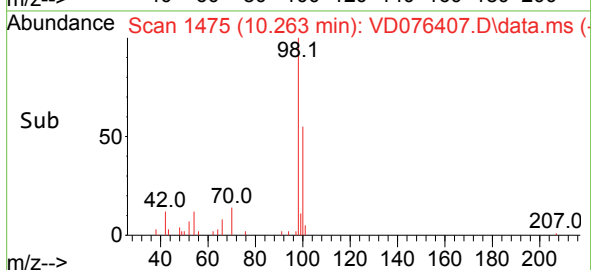
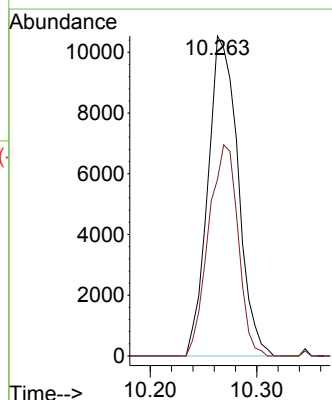
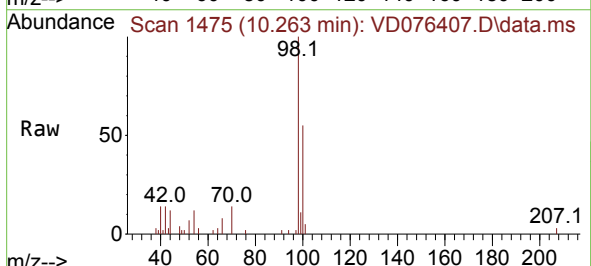
Acq: 13 Jun 2023 16:18

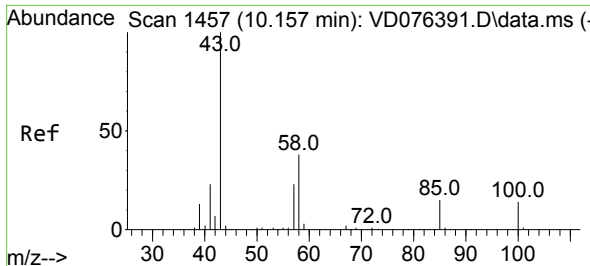
Tgt Ion: 98 Resp: 20694

Ion Ratio Lower Upper

98 100

100 64.6 50.3 75.5

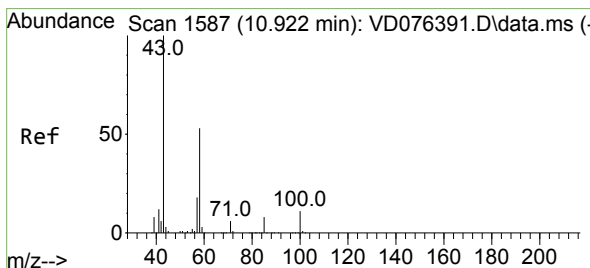
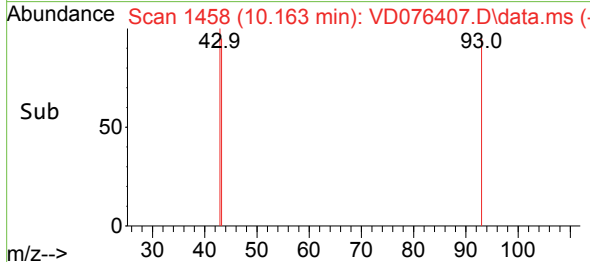
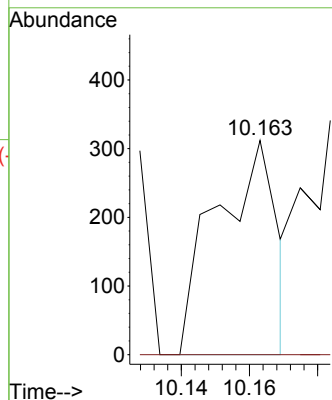
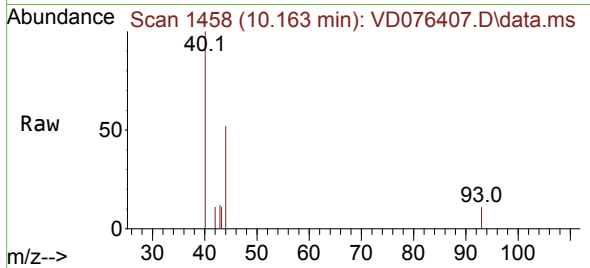




#51
4-Methyl-2-Pentanone
Concen: 4.261 ug/l
RT: 10.163 min Scan# 1457
Delta R.T. 0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

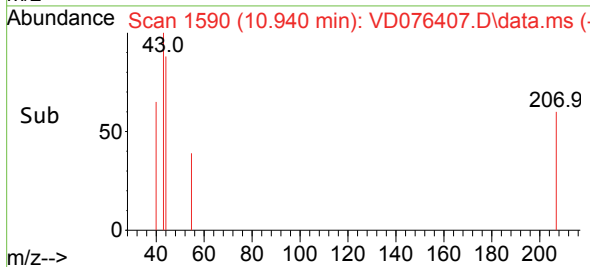
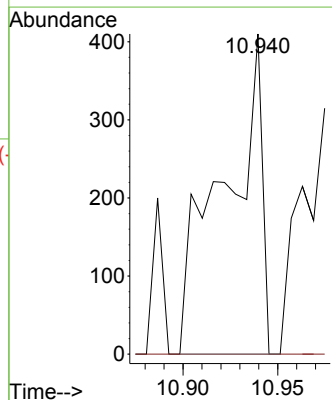
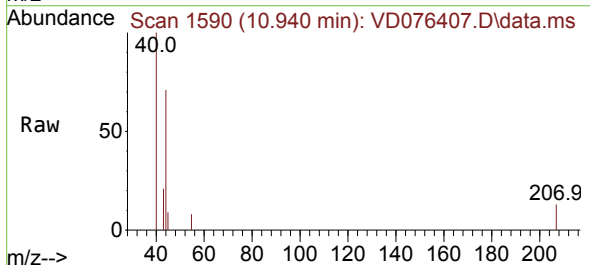
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

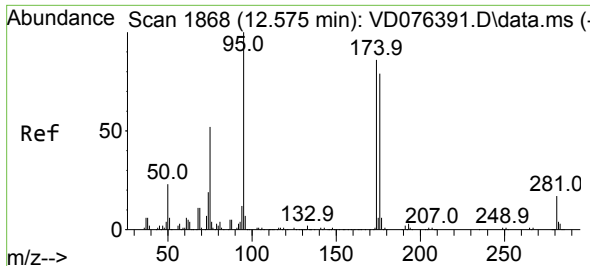
Tgt Ion: 43 Resp: 387
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#59
2-Hexanone
Concen: 9.047 ug/l
RT: 10.940 min Scan# 1590
Delta R.T. 0.018 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 43 Resp: 576
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#

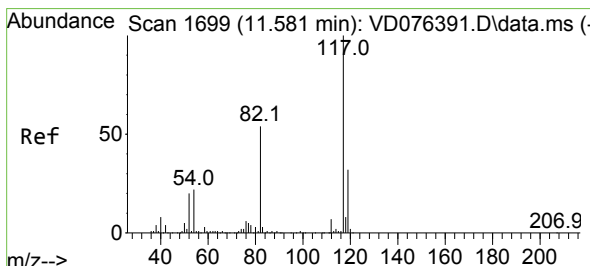
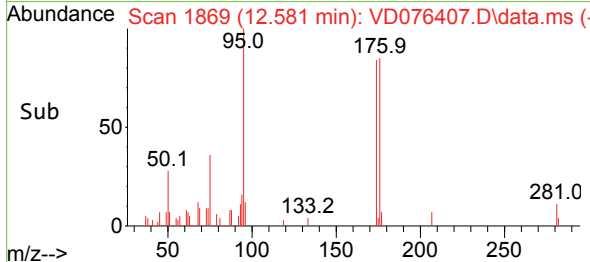
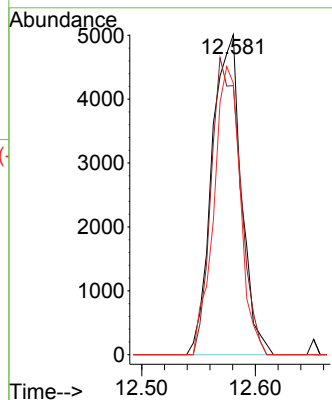
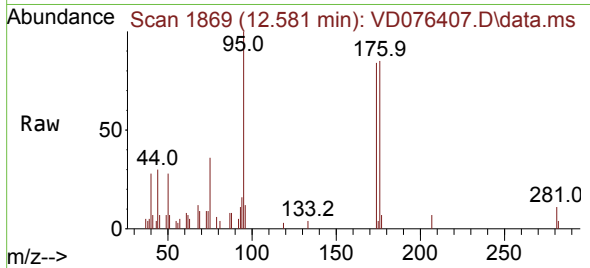




#62
4-Bromofluorobenzene
Concen: 60.708 ug/l
RT: 12.581 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

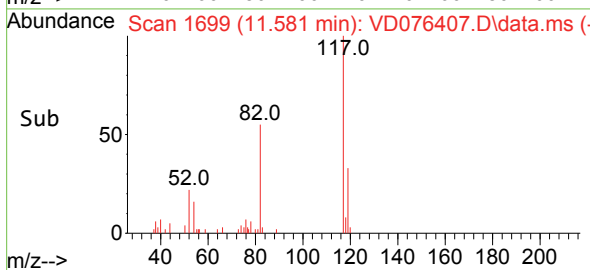
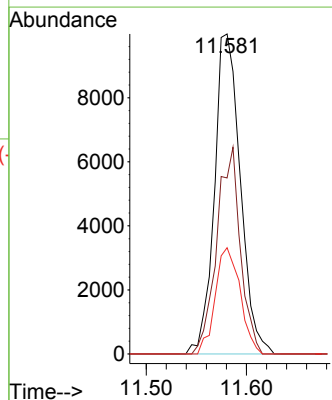
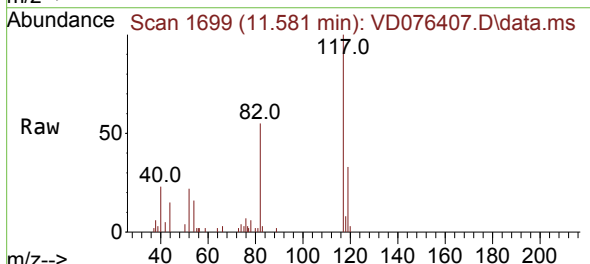
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

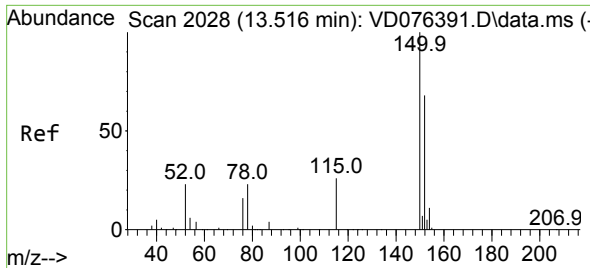
Tgt Ion:	95	Resp:	8967
Ion Ratio	Lower	Upper	
95	100		
174	91.8	0.0	201.8
176	82.0	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion:	117	Resp:	17920
Ion Ratio	Lower	Upper	
117	100		
82	55.0	38.3	57.5
119	33.2	25.0	37.4

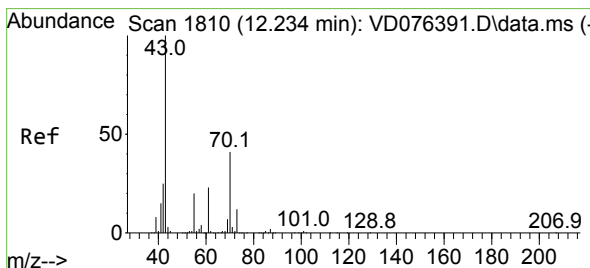
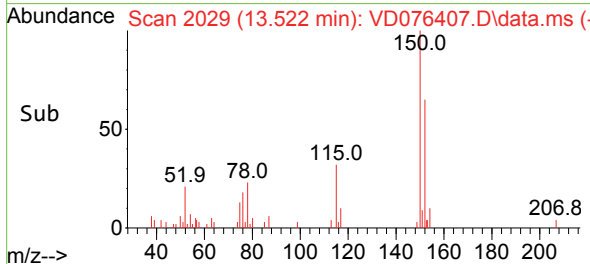
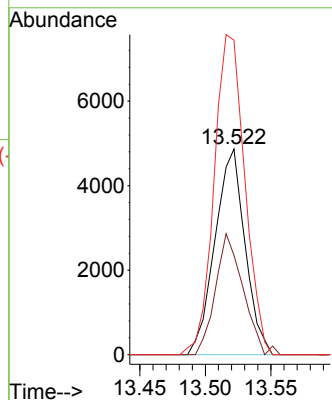
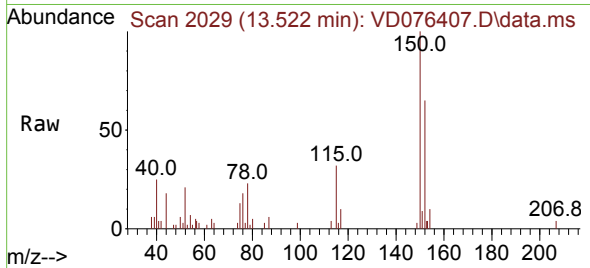




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2028
Delta R.T. 0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

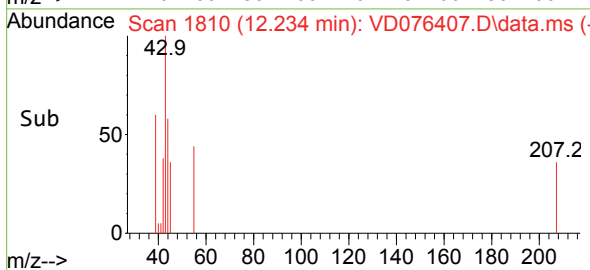
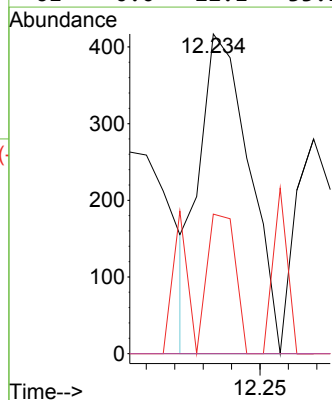
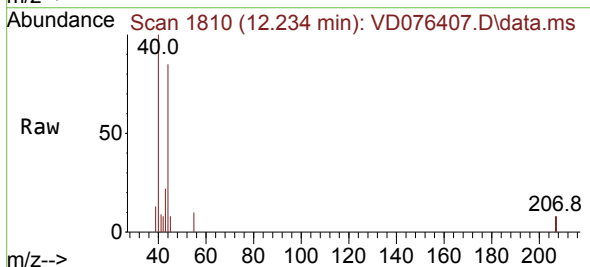
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

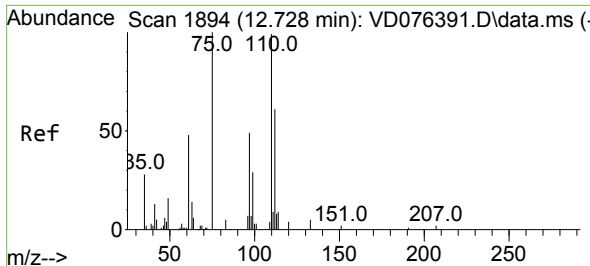
Tgt Ion:152 Resp: 7760
Ion Ratio Lower Upper
152 100
115 54.1 27.1 81.3
150 159.0 0.0 353.6



#74
N-ethyl acetate
Concen: 2.822 ug/l
RT: 12.234 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 43 Resp: 505
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 38.0 23.8 35.6#
61 0.0 22.1 33.1#

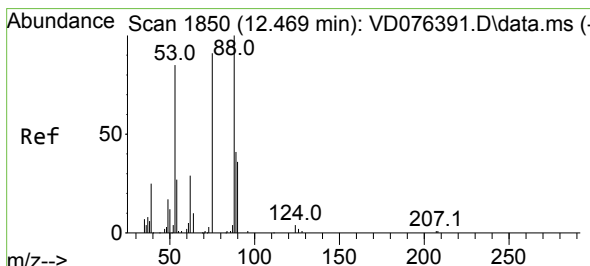
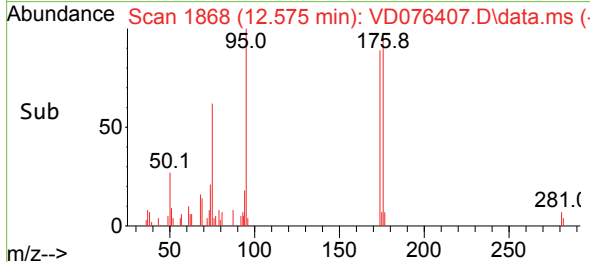
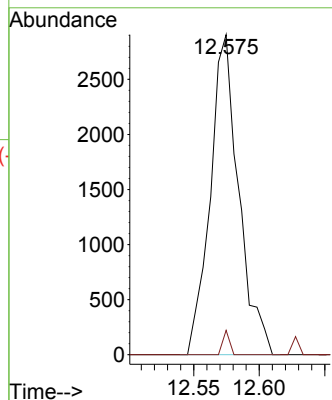
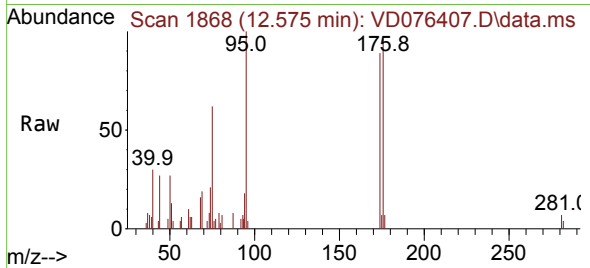




#76
1,2,3-Trichloropropane
Concen: 60.472 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.153 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

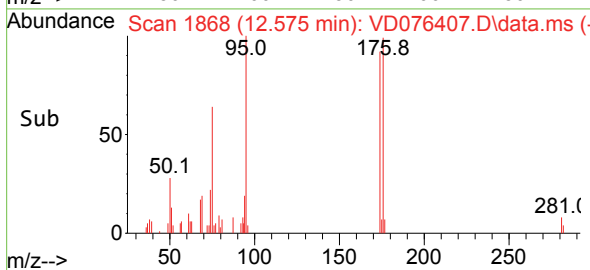
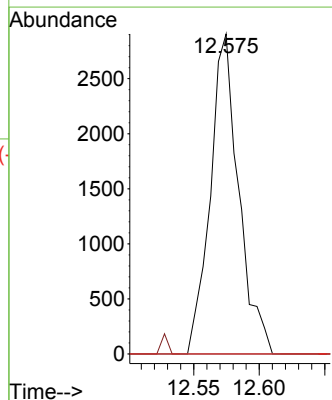
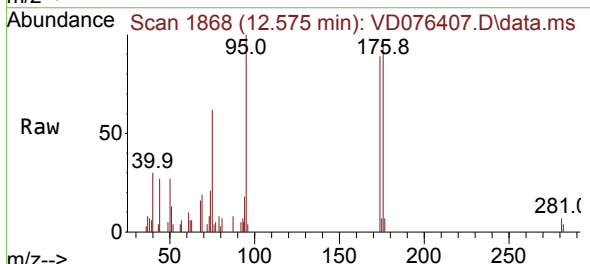
Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

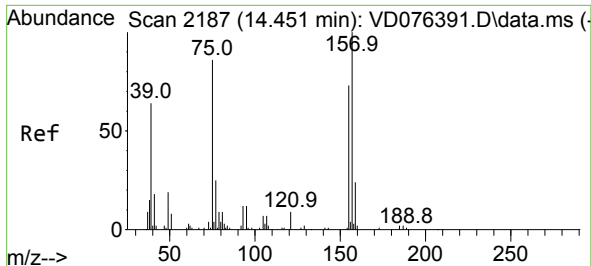
Tgt Ion: 75 Resp: 4387
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 108.270 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 75 Resp: 4387
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#

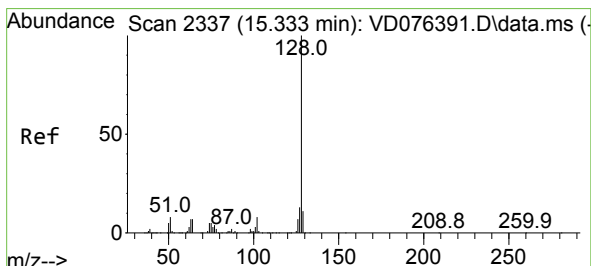
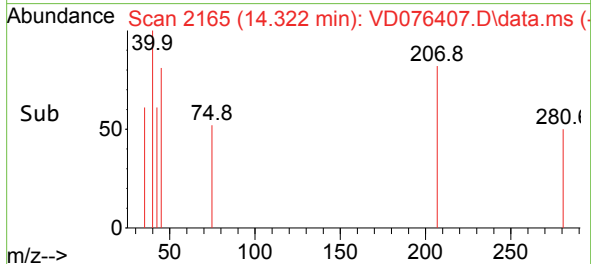
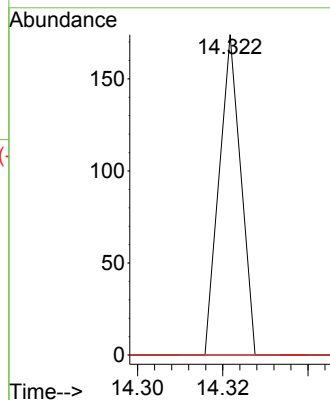
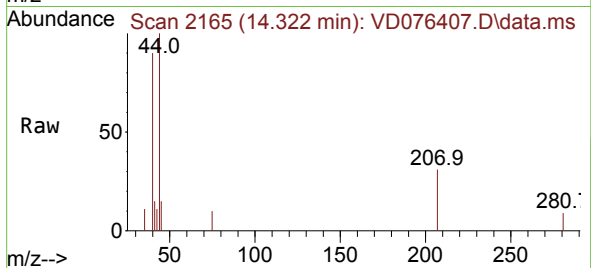




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.204 ug/l
RT: 14.322 min Scan# 2187
Delta R.T. -0.129 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Instrument :
MSVOA_D
ClientSampleId :
WC-1RE

Tgt Ion: 75 Resp: 61
Ion Ratio Lower Upper
75 100
155 0.0 47.9 143.8#
157 0.0 59.9 179.7#



#95
Naphthalene
Concen: 2.090 ug/l
RT: 15.339 min Scan# 2338
Delta R.T. 0.006 min
Lab File: VD076407.D
Acq: 13 Jun 2023 16:18

Tgt Ion: 128 Resp: 662
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

