

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061423\
 Data File : VD076419.D
 Acq On : 14 Jun 2023 15:34
 Operator : KP/SY
 Sample : 03221-01
 Misc : 5.06G/5.04ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-4194

Quant Time: Jun 15 05:33:27 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)

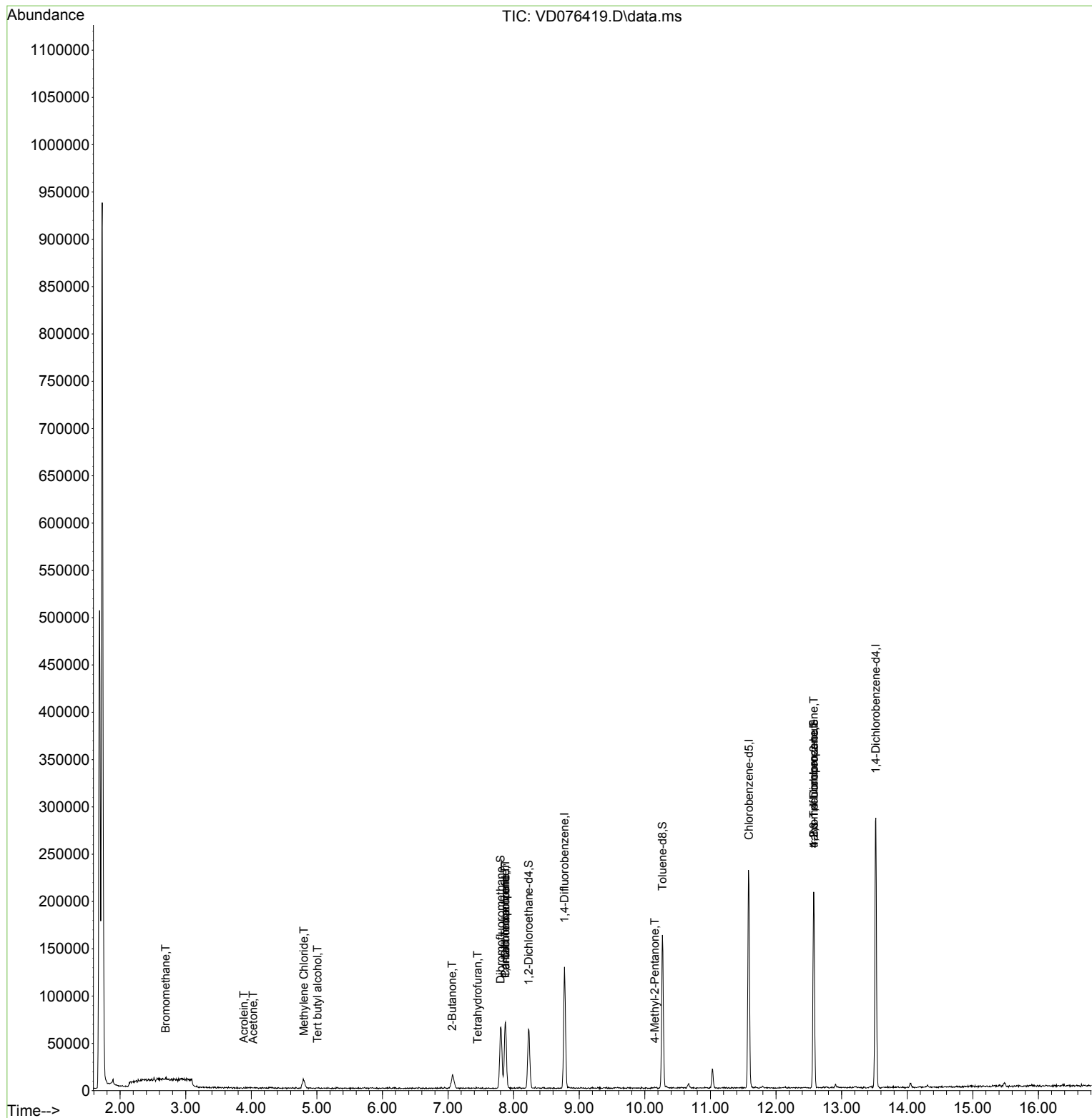
Internal Standards						
1) Pentafluorobenzene	7.875	168	55127	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	109138	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.587	117	127802	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	76858	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	47063	73.913	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 147.820%	
35) Dibromofluoromethane	7.799	113	47486	67.320	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 134.640%	
50) Toluene-d8	10.269	98	106724	39.926	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 79.860%	
62) 4-Bromofluorobenzene	12.575	95	62891	68.582	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 137.160%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.693	94	1062	2.272	ug/l #	75
11) Tert butyl alcohol	5.010	59	185	3.476	ug/l #	73
13) Acrolein	3.887	56	87	1.425	ug/l #	15
16) Acetone	4.028	43	632	4.515	ug/l #	86
20) Methylene Chloride	4.805	84	5993	2.534	ug/l #	90
25) 2-Butanone	7.063	43	1231	5.623	ug/l #	37
28) Bromochloromethane	7.434	49	223	Below Cal	#	1
29) Tetrahydrofuran	7.452	42	264	1.890	ug/l #	23
36) 1,1-Dichloropropene	7.875	75	4533	4.403	ug/l #	41
38) Carbon Tetrachloride	7.875	117	5641	5.901	ug/l #	16
51) 4-Methyl-2-Pentanone	10.151	43	960	1.702	ug/l #	28
76) 1,2,3-Trichloropropane	12.575	75	32334	45.000	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	32334	80.570	ug/l #	17

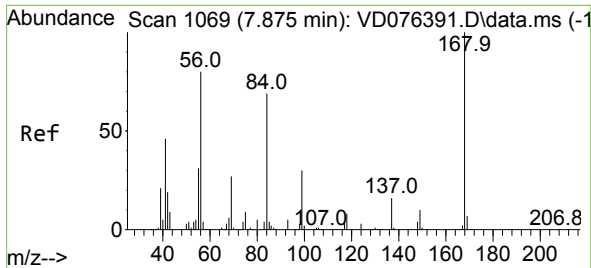
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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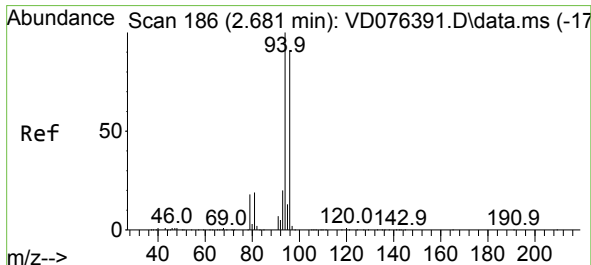
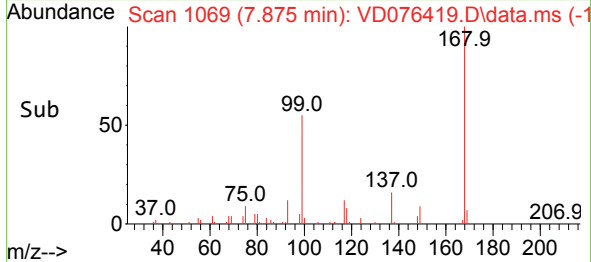
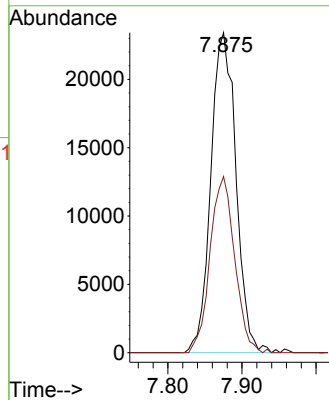
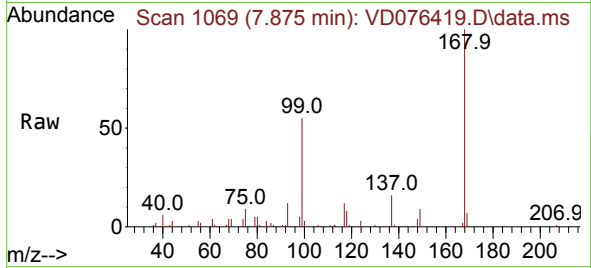




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

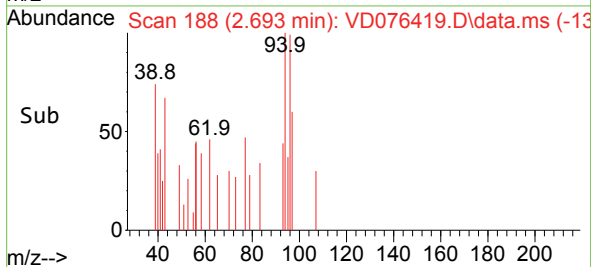
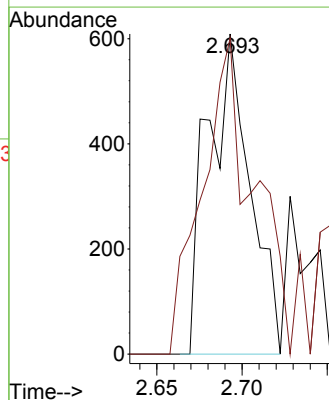
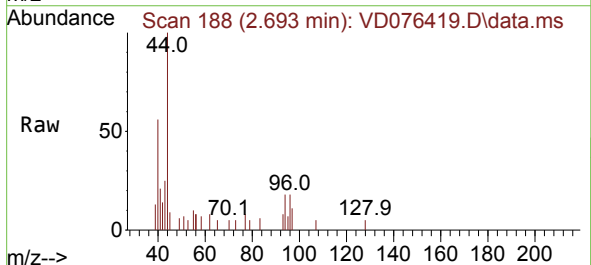
Instrument :
MSVOA_D
ClientSampleId :
RT-4194

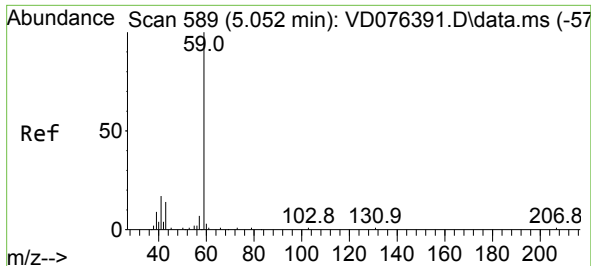
Tgt Ion:168 Resp: 55127
Ion Ratio Lower Upper
168 100
99 55.1 36.7 55.1



#5
Bromomethane
Concen: 2.272 ug/l
RT: 2.693 min Scan# 188
Delta R.T. 0.012 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

Tgt Ion: 94 Resp: 1062
Ion Ratio Lower Upper
94 100
96 119.2 75.8 113.8#





#11

Tert butyl alcohol

Concen: 3.476 ug/l

RT: 5.010 min Scan# 50

Delta R.T. -0.041 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

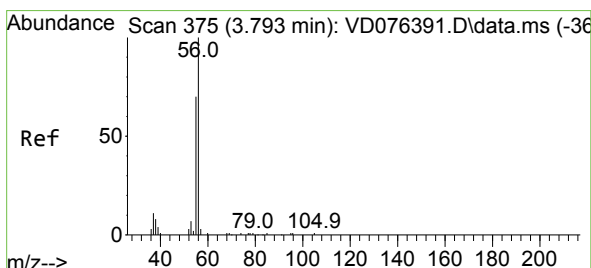
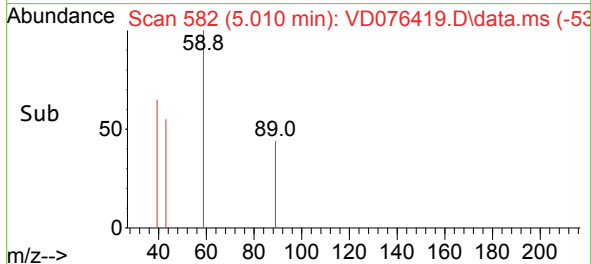
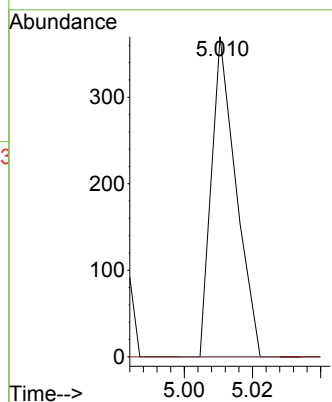
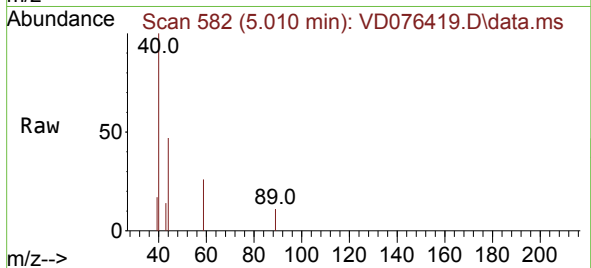
RT-4194

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 1.425 ug/l

RT: 3.887 min Scan# 391

Delta R.T. 0.094 min

Lab File: VD076419.D

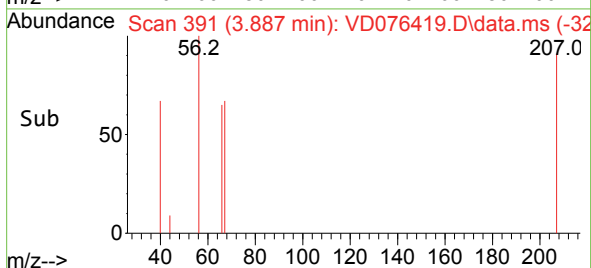
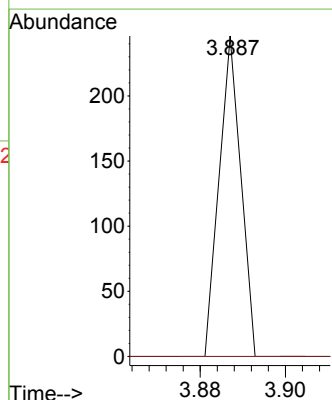
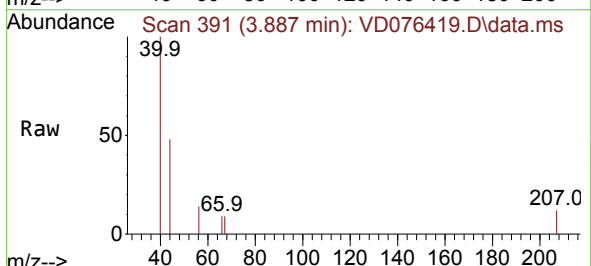
Acq: 14 Jun 2023 15:34

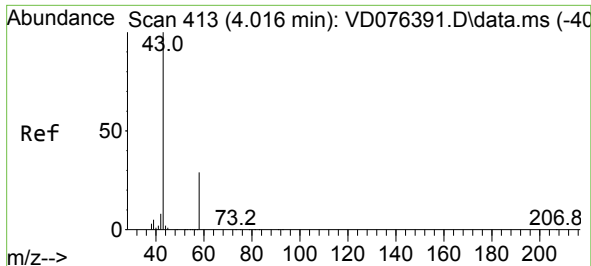
Tgt Ion: 56 Resp: 87

Ion Ratio Lower Upper

56 100

55 0.0 55.1 82.7#





#16

Acetone

Concen: 4.515 ug/l

RT: 4.028 min Scan# 41

Delta R.T. 0.012 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

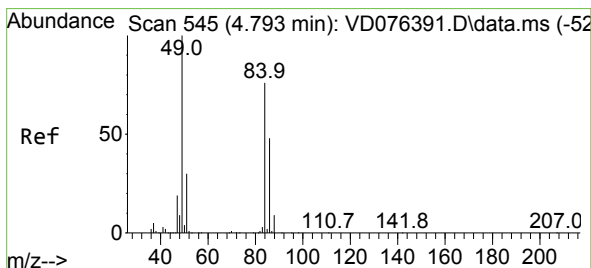
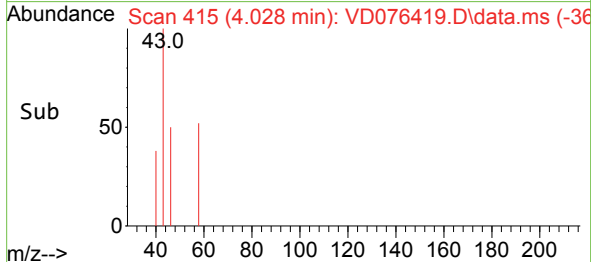
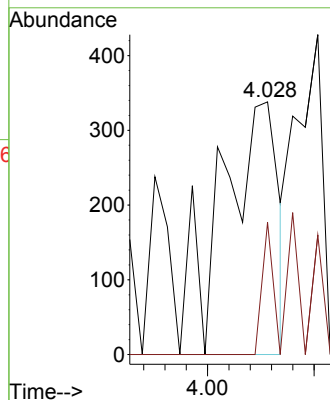
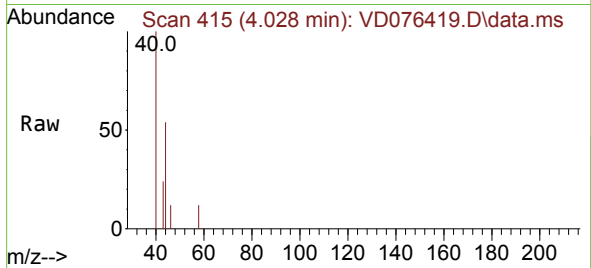
RT-4194

Tgt Ion: 43 Resp: 632

Ion Ratio Lower Upper

43 100

58 52.4 34.7 52.1#



#20

Methylene Chloride

Concen: 2.534 ug/l

RT: 4.805 min Scan# 547

Delta R.T. 0.012 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Tgt Ion: 84 Resp: 5993

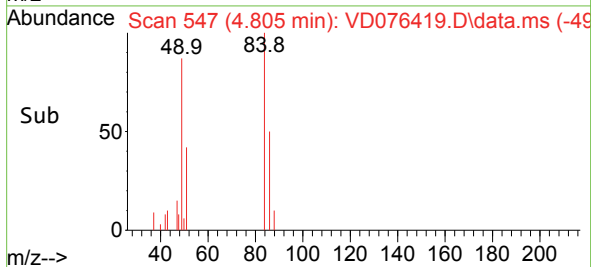
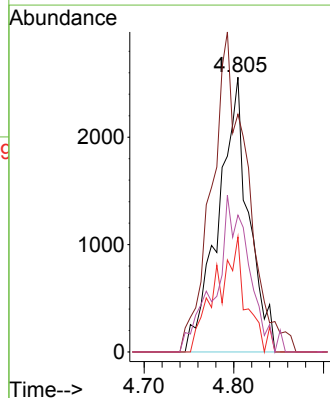
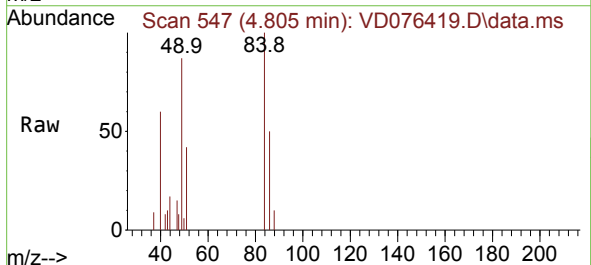
Ion Ratio Lower Upper

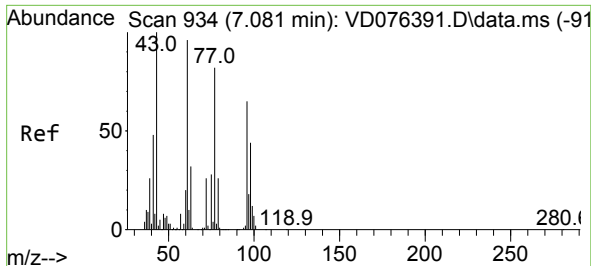
84 100

49 86.6 71.4 107.2

51 41.9 24.5 36.7#

86 49.8 48.7 73.1





#25

2-Butanone

Concen: 5.623 ug/l

RT: 7.063 min Scan# 91

Delta R.T. -0.018 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

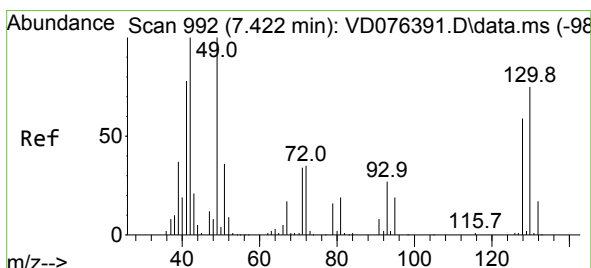
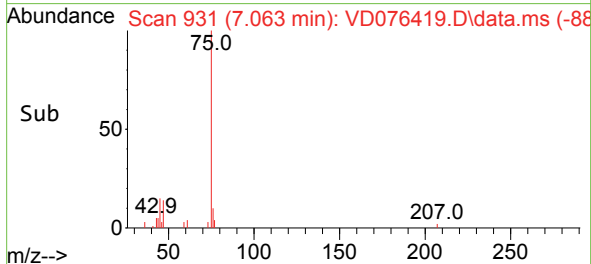
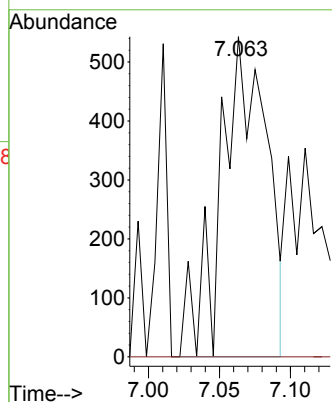
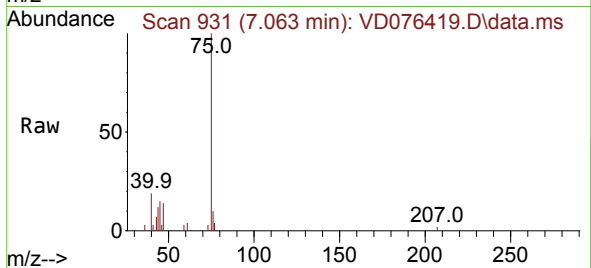
RT-4194

Tgt Ion: 43 Resp: 1231

Ion Ratio Lower Upper

43 100

72 0.0 30.7 46.1#



#28

Bromochloromethane

Concen: Below Cal

RT: 7.434 min Scan# 994

Delta R.T. 0.012 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

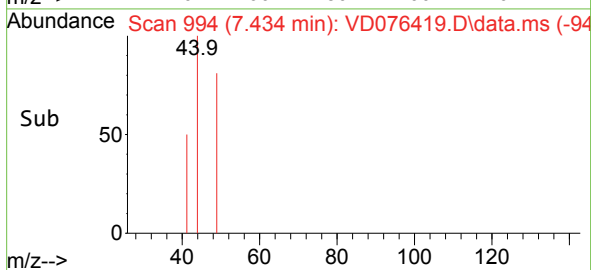
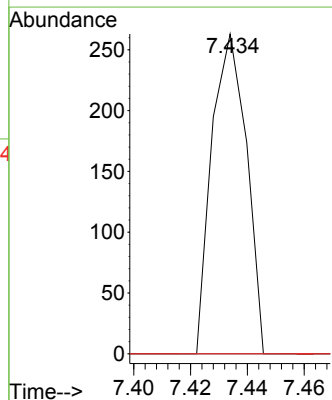
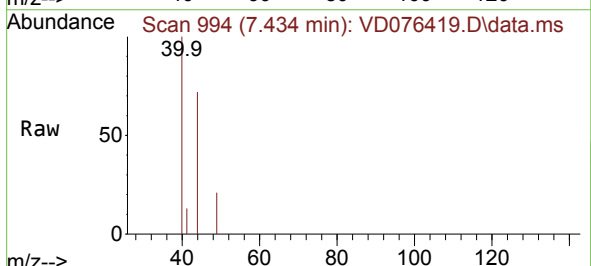
Tgt Ion: 49 Resp: 223

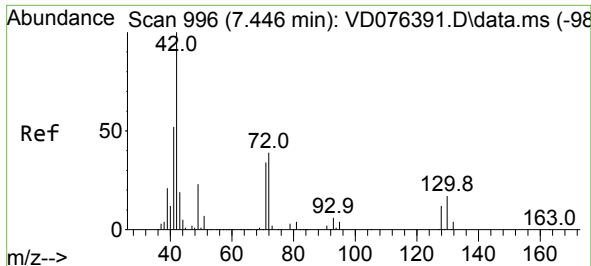
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.0

130 0.0 83.2 124.8#

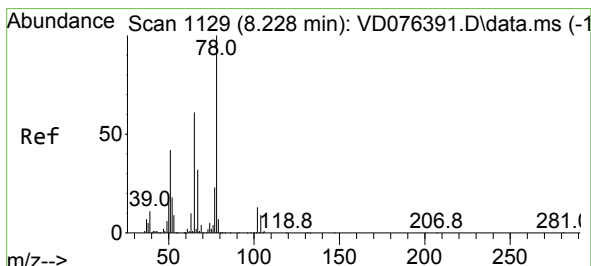
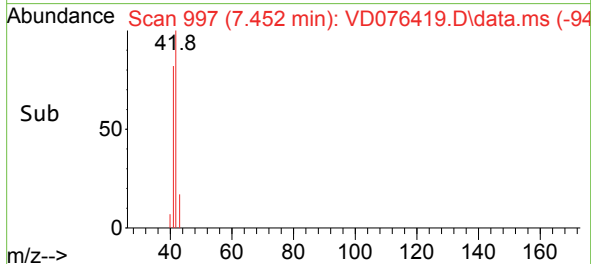
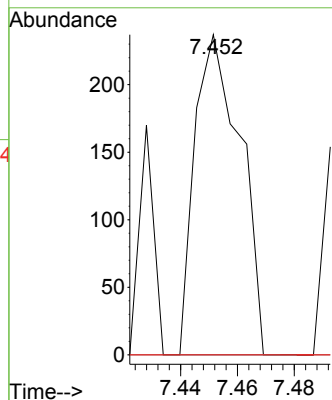
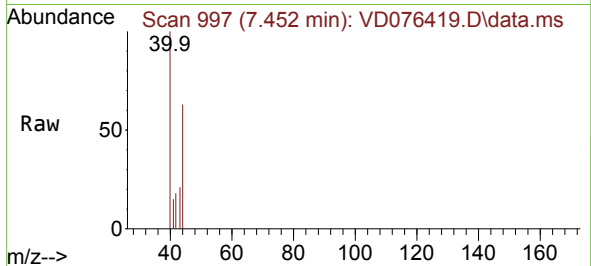




#29
Tetrahydrofuran
Concen: 1.890 ug/l
RT: 7.452 min Scan# 996
Delta R.T. 0.006 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

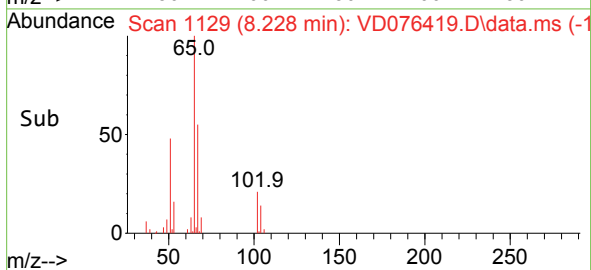
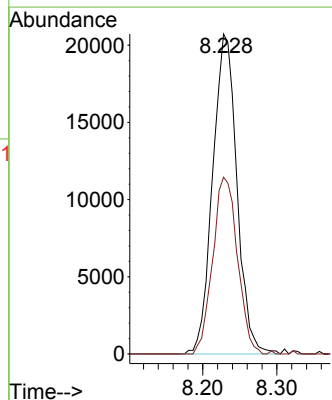
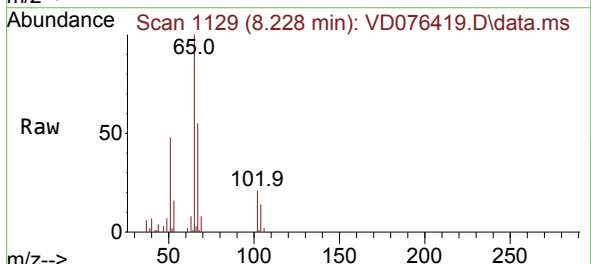
Instrument :
MSVOA_D
ClientSampleId :
RT-4194

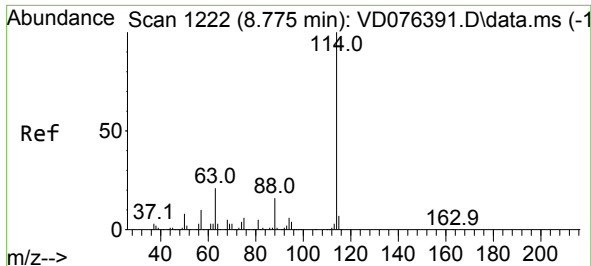
Tgt Ion: 42 Resp: 264
Ion Ratio Lower Upper
42 100
72 0.0 46.5 69.7#
71 0.0 44.5 66.7#



#33
1,2-Dichloroethane-d4
Concen: 73.913 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

Tgt Ion: 65 Resp: 47063
Ion Ratio Lower Upper
65 100
67 56.3 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

RT-4194

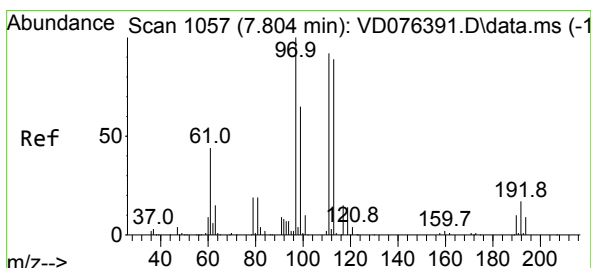
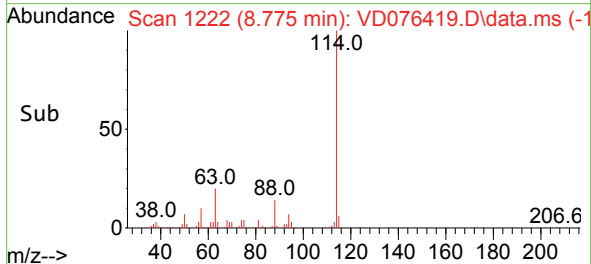
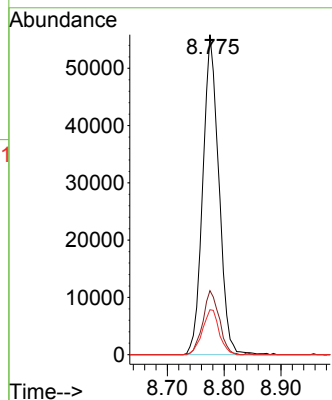
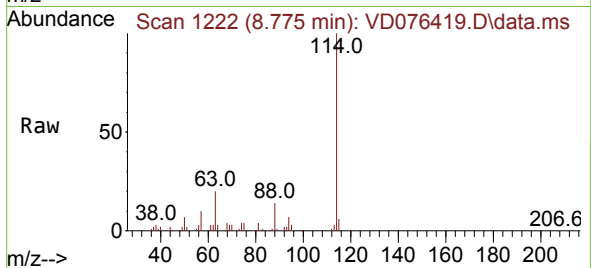
Tgt Ion:114 Resp: 109138

Ion Ratio Lower Upper

114 100

63 20.0 0.0 33.4

88 14.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 67.320 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

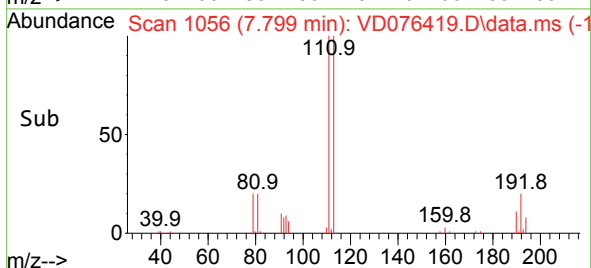
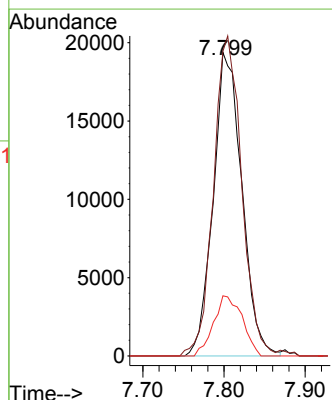
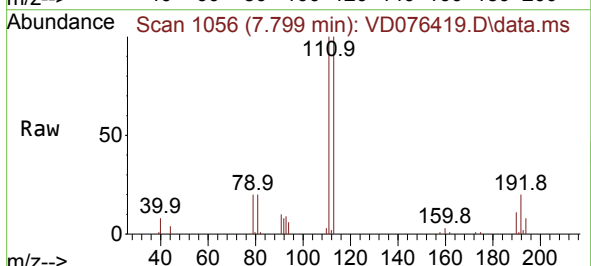
Tgt Ion:113 Resp: 47486

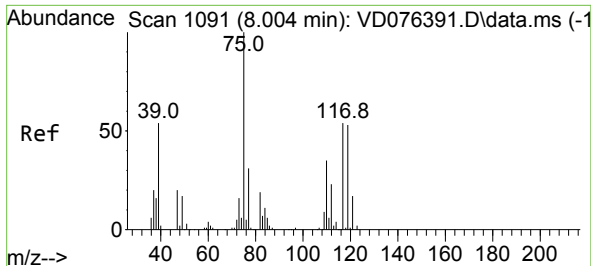
Ion Ratio Lower Upper

113 100

111 103.7 84.7 127.1

192 19.8 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.403 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

RT-4194

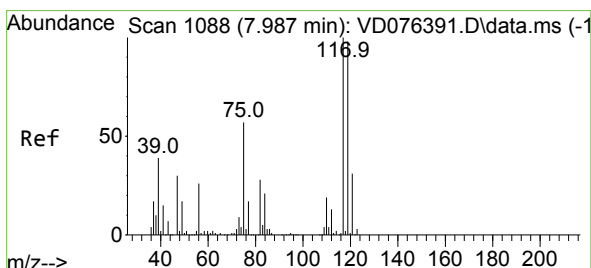
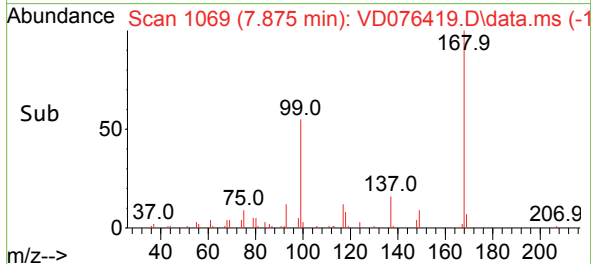
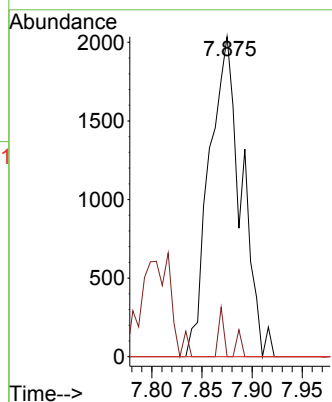
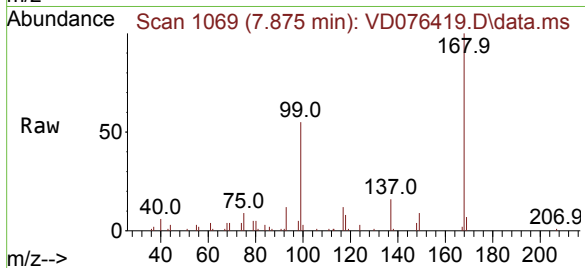
Tgt Ion: 75 Resp: 4533

Ion Ratio Lower Upper

75 100

110 2.4 19.9 59.6#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 5.901 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.112 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

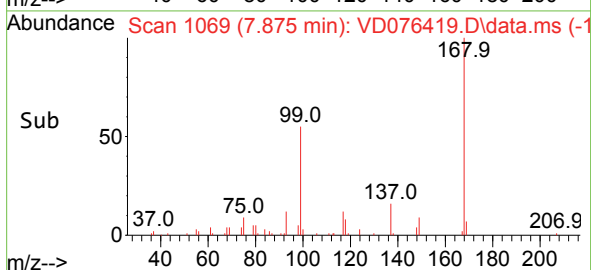
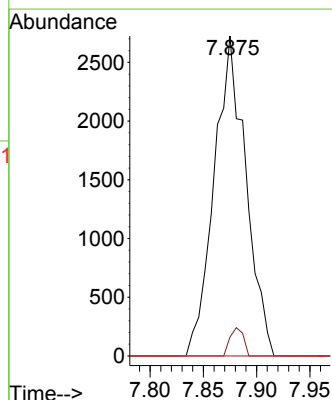
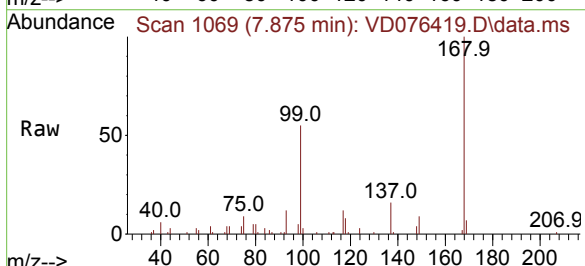
Tgt Ion: 117 Resp: 5641

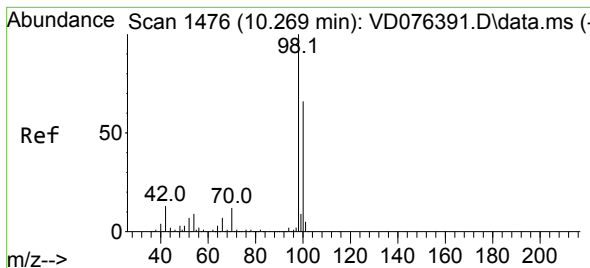
Ion Ratio Lower Upper

117 100

119 5.9 78.0 117.0#

121 0.0 24.2 36.2#





#50

Toluene-d8

Concen: 39.926 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

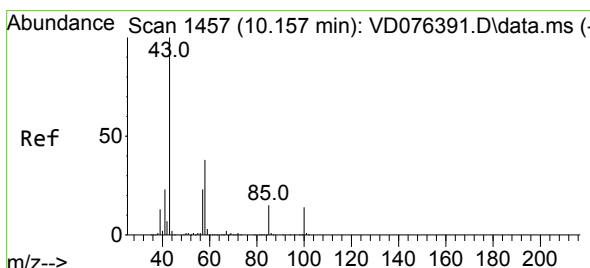
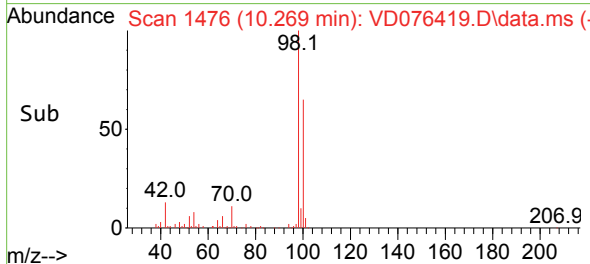
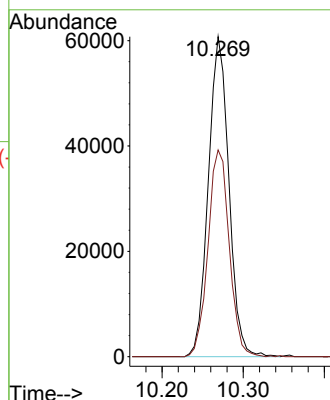
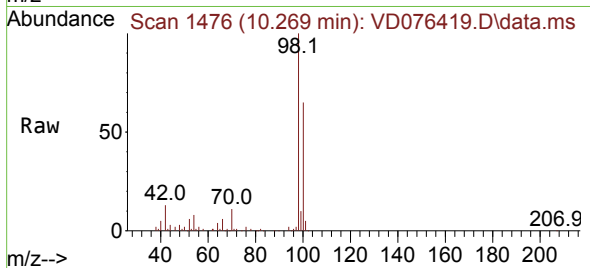
RT-4194

Tgt Ion: 98 Resp: 106724

Ion Ratio Lower Upper

98 100

100 66.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.702 ug/l

RT: 10.151 min Scan# 1456

Delta R.T. -0.006 min

Lab File: VD076419.D

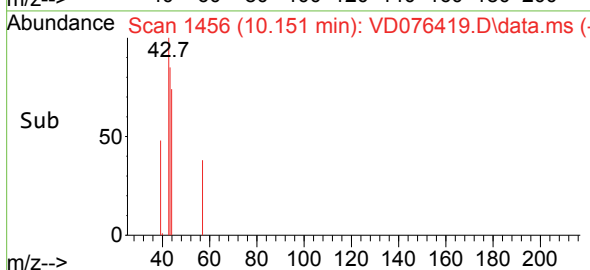
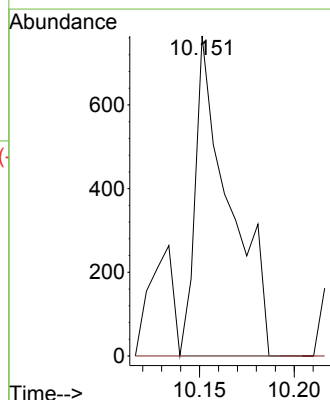
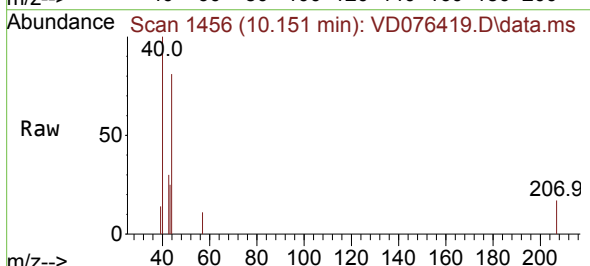
Acq: 14 Jun 2023 15:34

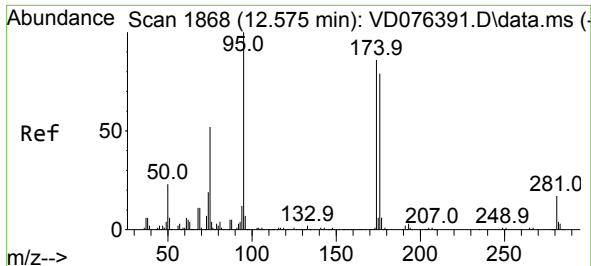
Tgt Ion: 43 Resp: 960

Ion Ratio Lower Upper

43 100

58 0.0 38.9 58.3#

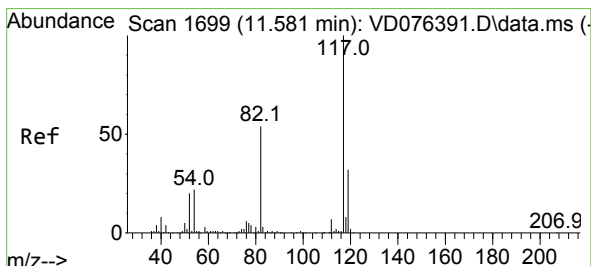
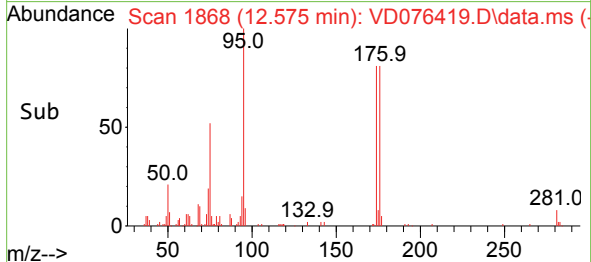
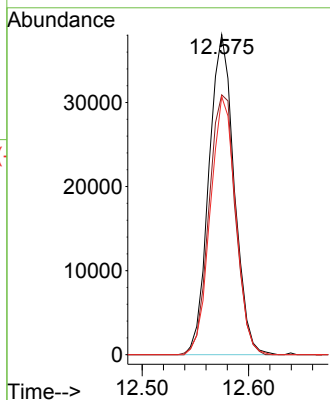
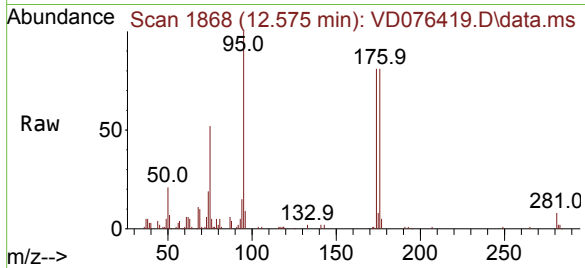




#62
4-Bromofluorobenzene
Concen: 68.582 ug/l
RT: 12.575 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

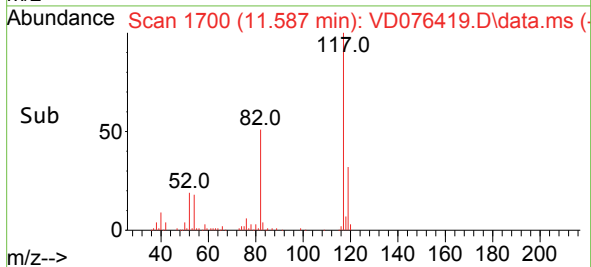
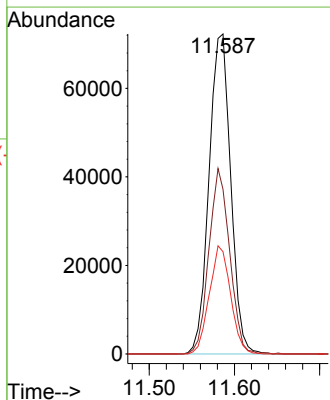
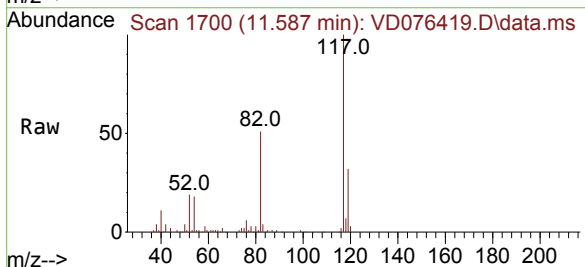
Instrument :
MSVOA_D
ClientSampleId :
RT-4194

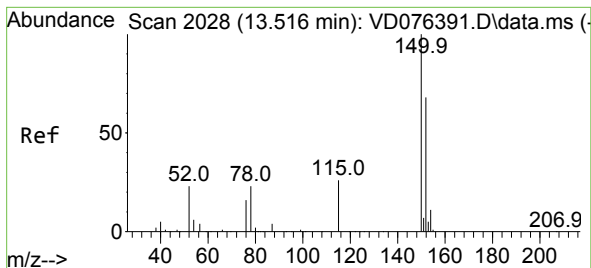
Tgt Ion: 95 Resp: 62891
Ion Ratio Lower Upper
95 100
174 84.7 0.0 201.8
176 80.6 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.587 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VD076419.D
Acq: 14 Jun 2023 15:34

Tgt Ion: 117 Resp: 127802
Ion Ratio Lower Upper
117 100
82 51.4 38.3 57.5
119 32.0 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.522 min Scan# 20

Delta R.T. 0.006 min

Lab File: VD076419.D

Acq: 14 Jun 2023 15:34

Instrument :

MSVOA_D

ClientSampleId :

RT-4194

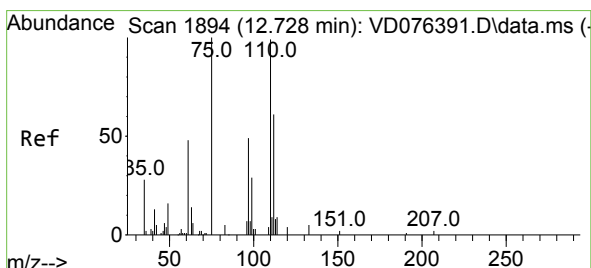
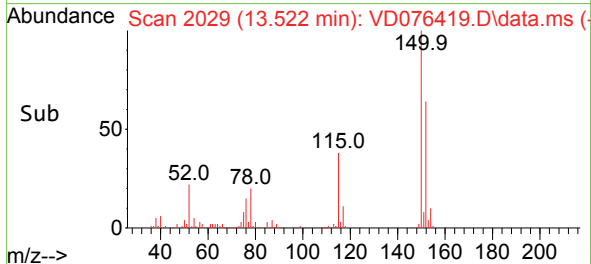
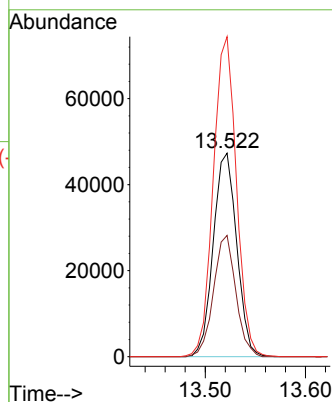
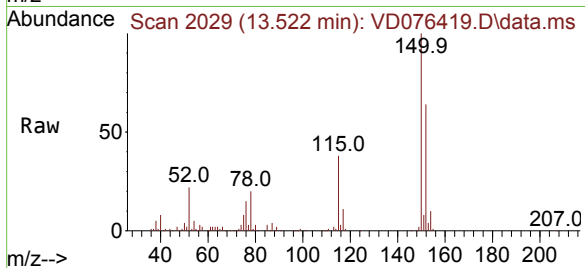
Tgt Ion:152 Resp: 76858

Ion Ratio Lower Upper

152 100

115 56.8 27.1 81.3

150 154.7 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 45.000 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD076419.D

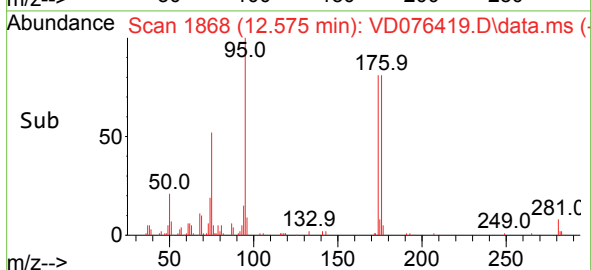
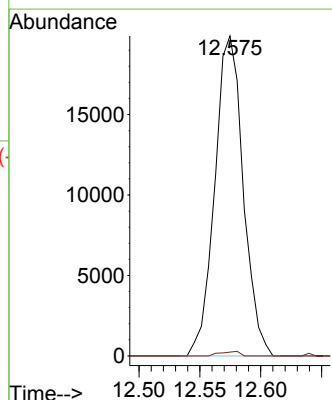
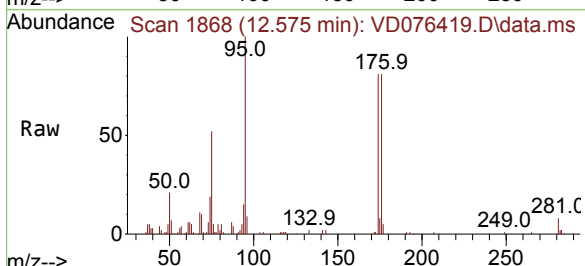
Acq: 14 Jun 2023 15:34

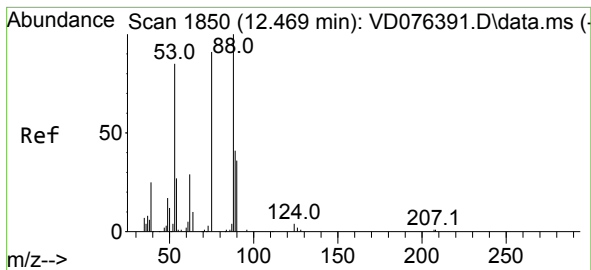
Tgt Ion: 75 Resp: 32334

Ion Ratio Lower Upper

75 100

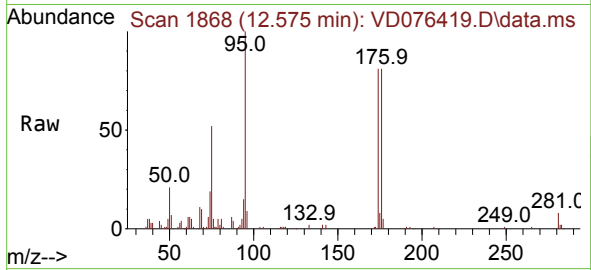
77 1.0 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.570 ug/l
 RT: 12.575 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VD076419.D
 Acq: 14 Jun 2023 15:34

Instrument :
 MSVOA_D
 ClientSampleId :
 RT-4194



Tgt Ion:	75	Resp:	32334
Ion	Ratio	Lower	Upper
75	100		
53	0.0	63.0	94.4#
89	0.0	37.9	56.9#

