

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041824\
 Data File : VY017984.D
 Acq On : 18 Apr 2024 18:25
 Operator : SY/MD
 Sample : P2178-05
 Misc : 3.76g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOPSOIL-LKWD-DENALI-6

Quant Time: Apr 19 02:04:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041624S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:24:42 2024
 Response via : Initial Calibration

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

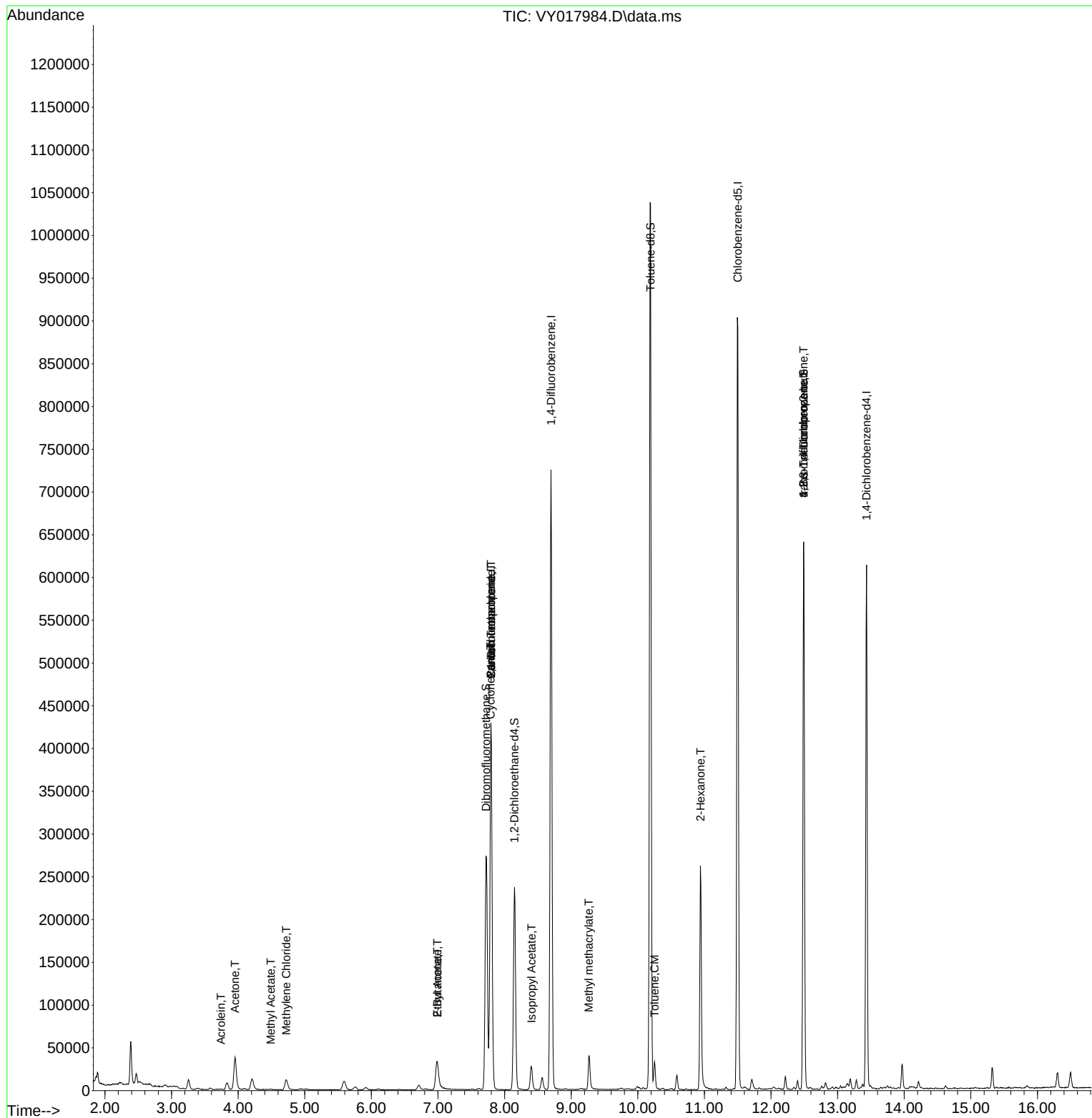
Internal Standards						
1) Pentafluorobenzene	7.795	168	357786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	643837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	541001	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.434	152	165289	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	178578	57.68	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.36%			
35) Dibromofluoromethane	7.722	113	203919	51.34	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.68%			
50) Toluene-d8	10.191	98	725688	48.15	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.30%			
62) 4-Bromofluorobenzene	12.489	95	182790	39.16	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 78.32%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.930	59	1129	Below Cal	#	88
13) Acrolein	3.741	56	702	2.91 ug/l	#	77
16) Acetone	3.954	43	65095	106.40 ug/l		91
18) Methyl Acetate	4.491	43	1654	1.03 ug/l	#	78
20) Methylene Chloride	4.722	84	9416	2.27 ug/l		91
25) 2-Butanone	6.990	43	9049	10.06 ug/l	#	86
31) Cyclohexane	7.789	56	6062	1.02 ug/l	#	7
36) 1,1-Dichloropropene	7.795	75	24675	4.27 ug/l	#	48
37) Ethyl Acetate	6.990	43	9049	3.81 ug/l	#	88
38) Carbon Tetrachloride	7.795	117	31813	5.45 ug/l	#	18
43) Isopropyl Acetate	8.405	43	8705	1.96 ug/l	#	47
48) Methyl methacrylate	9.264	41	10160	5.00 ug/l	#	32
52) Toluene	10.252	92	13101	1.18 ug/l		99
59) 2-Hexanone	10.941	43	37779	23.56 ug/l	#	44
76) 1,2,3-Trichloropropane	12.489	75	88930	57.34 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.489	75	88930	118.22 ug/l	#	16

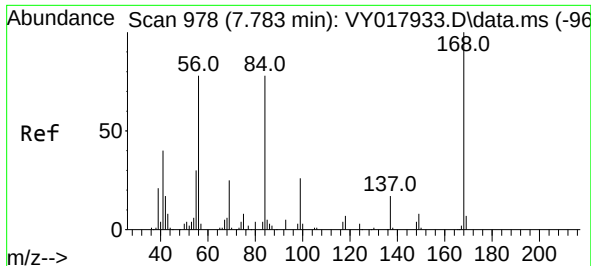
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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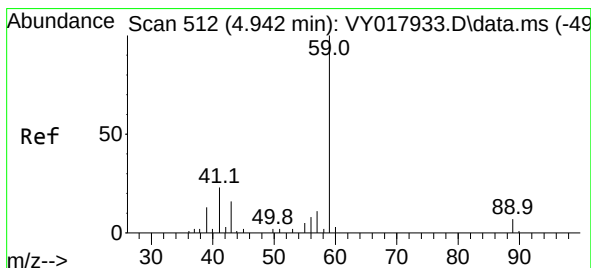
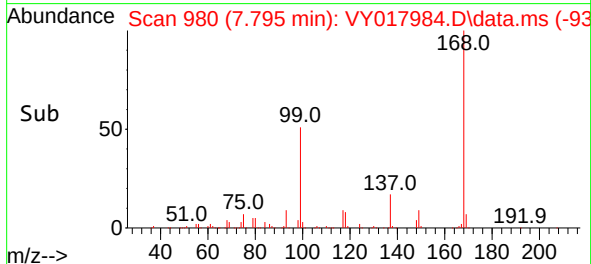
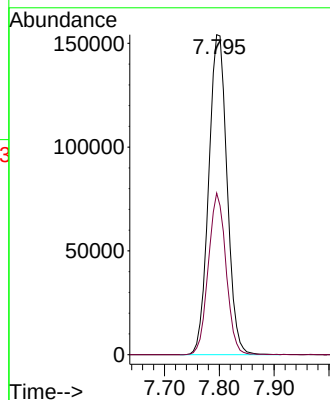
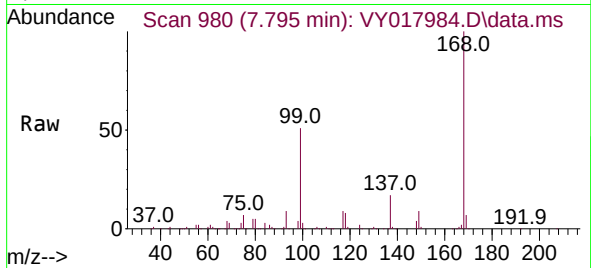




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

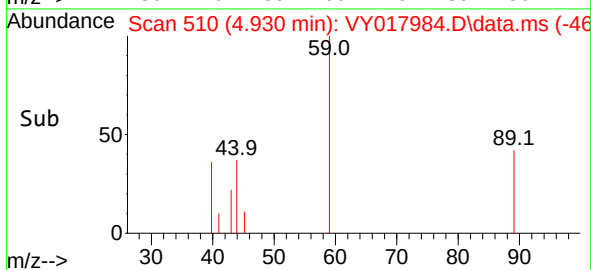
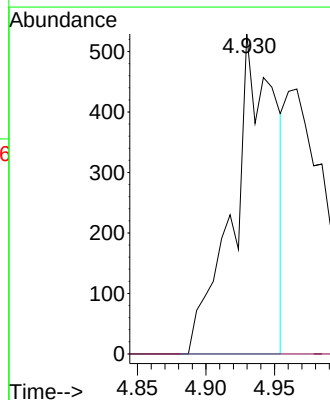
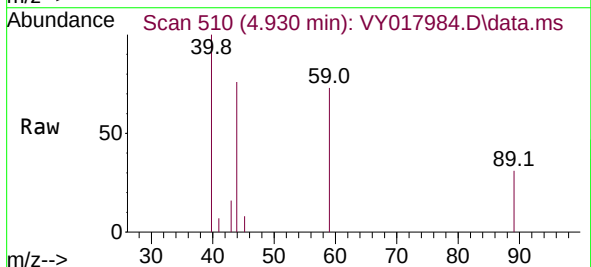
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

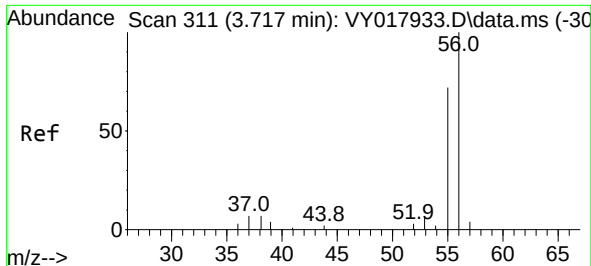
Tgt Ion:168 Resp: 357786
Ion Ratio Lower Upper
168 100
99 50.5 39.1 58.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.930 min Scan# 510
Delta R.T. -0.024 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 59 Resp: 1129
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#





#13

Acrolein

Concen: 2.91 ug/l

RT: 3.741 min Scan# 311

Delta R.T. 0.012 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

Instrument :

MSVOA_Y

ClientSampleId :

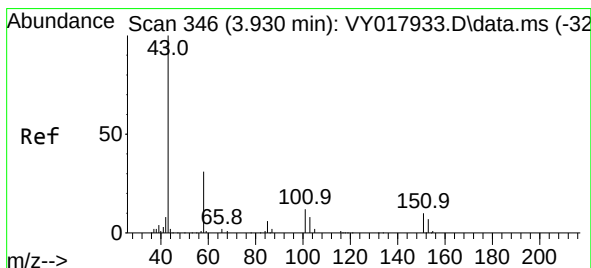
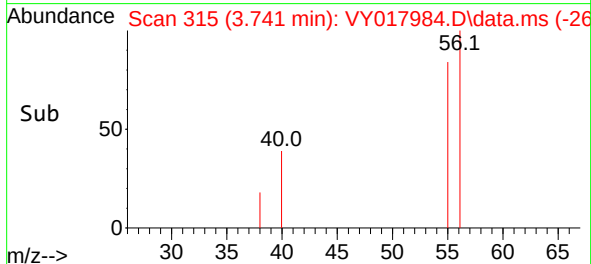
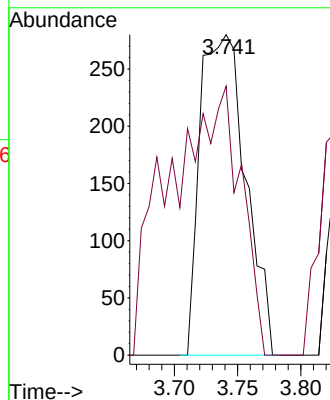
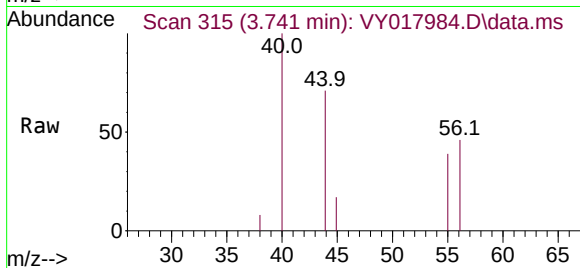
TOPSOIL-LKWD-DENALI-6

Tgt Ion: 56 Resp: 702

Ion Ratio Lower Upper

56 100

55 88.0 55.7 83.5#



#16

Acetone

Concen: 106.40 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.006 min

Lab File: VY017984.D

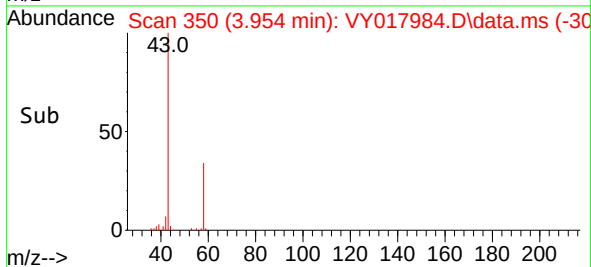
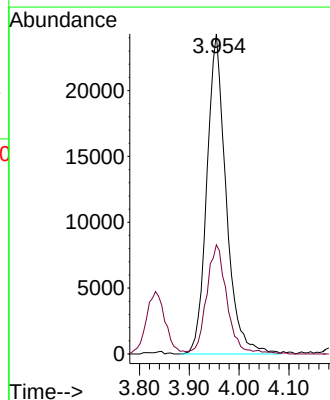
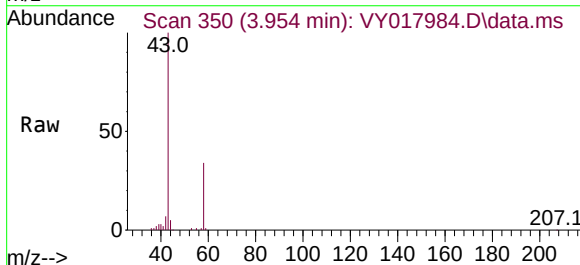
Acq: 18 Apr 2024 18:25

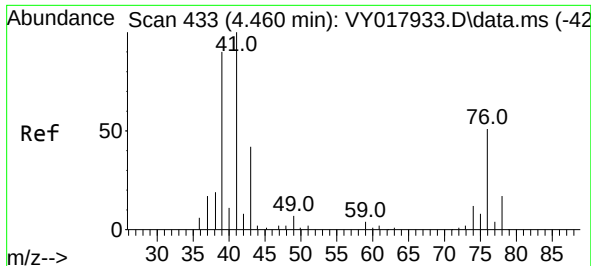
Tgt Ion: 43 Resp: 65095

Ion Ratio Lower Upper

43 100

58 33.9 31.7 47.5

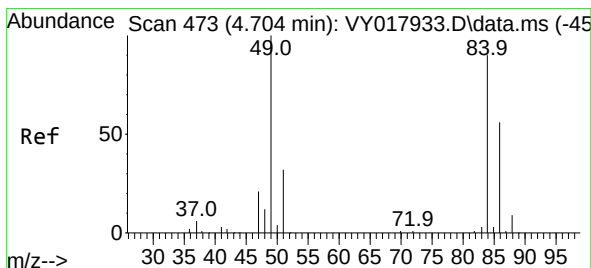
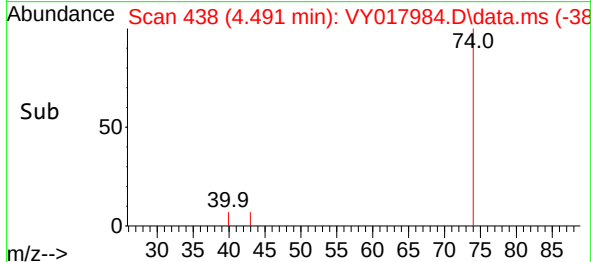
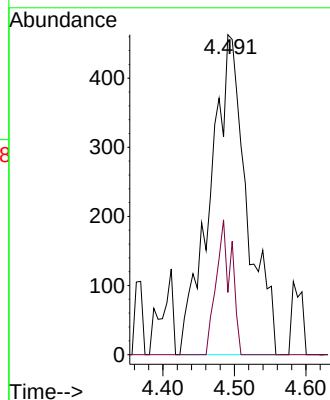
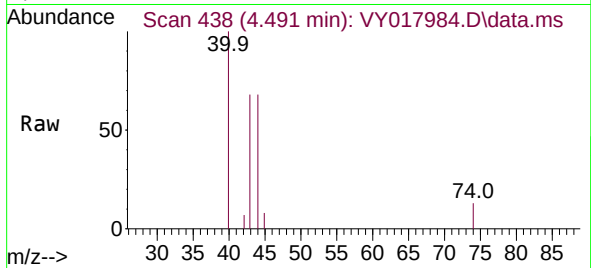




#18
Methyl Acetate
Concen: 1.03 ug/l
RT: 4.491 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

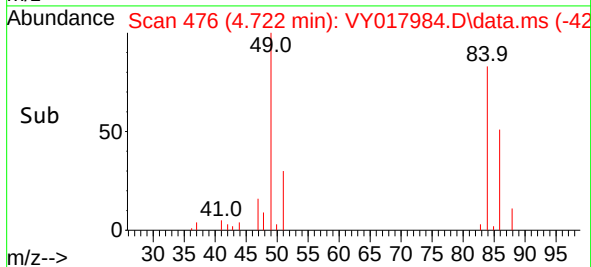
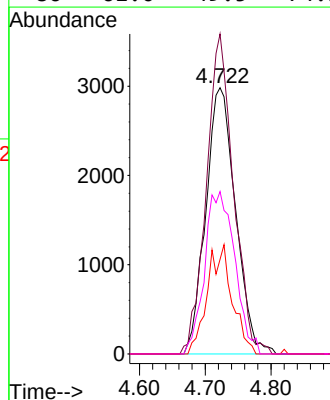
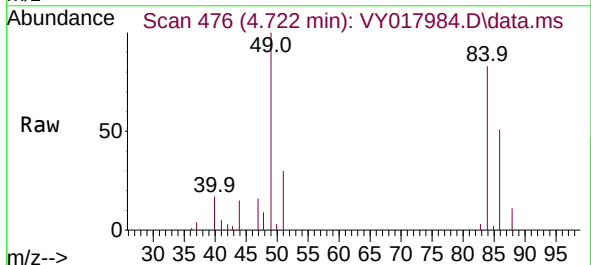
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

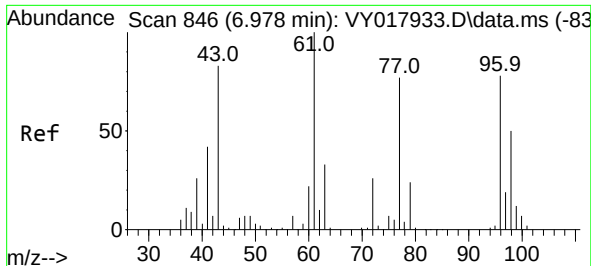
Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
74 17.5 23.3 34.9#



#20
Methylene Chloride
Concen: 2.27 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 84 Resp: 9416
Ion Ratio Lower Upper
84 100
49 120.2 84.4 126.6
51 35.5 26.0 39.0
86 61.0 49.5 74.3

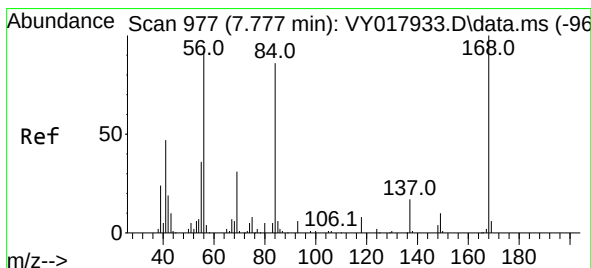
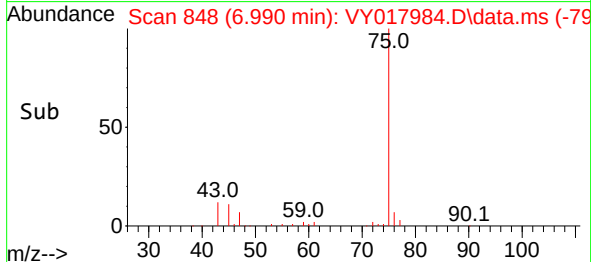
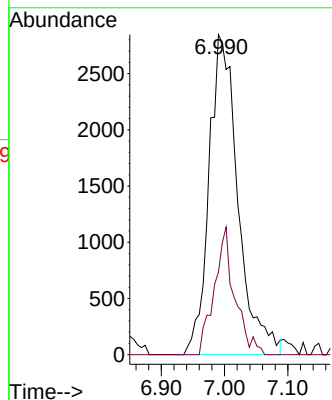
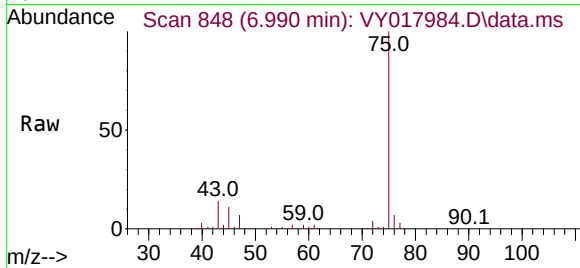




#25
2-Butanone
Concen: 10.06 ug/l
RT: 6.990 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

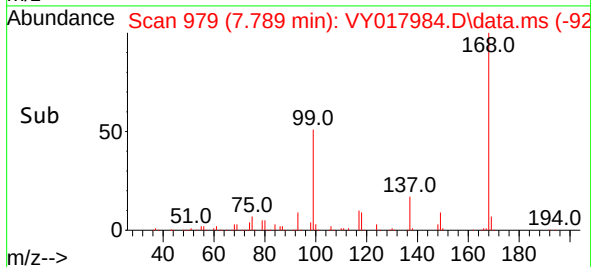
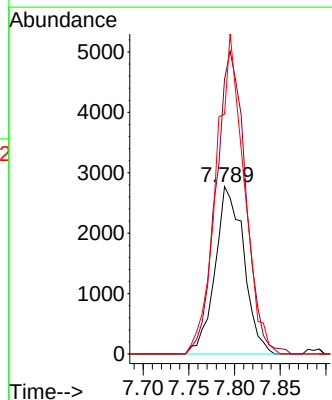
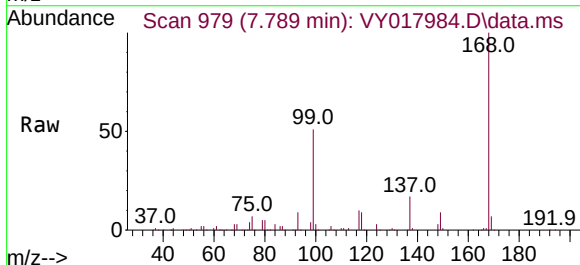
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

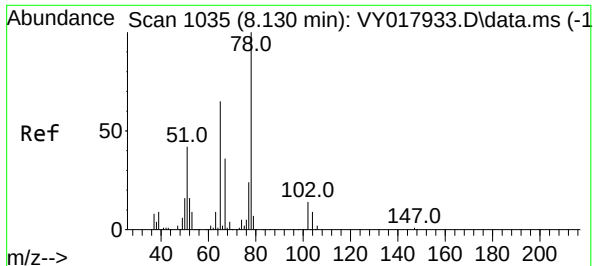
Tgt Ion: 43 Resp: 9049
Ion Ratio Lower Upper
43 100
72 25.8 27.3 40.9#



#31
Cyclohexane
Concen: 1.02 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.006 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 56 Resp: 6062
Ion Ratio Lower Upper
56 100
69 164.2 28.7 43.1#
84 143.3 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 57.68 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

Instrument :

MSVOA_Y

ClientSampleId :

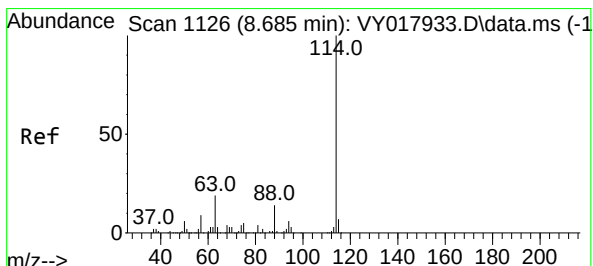
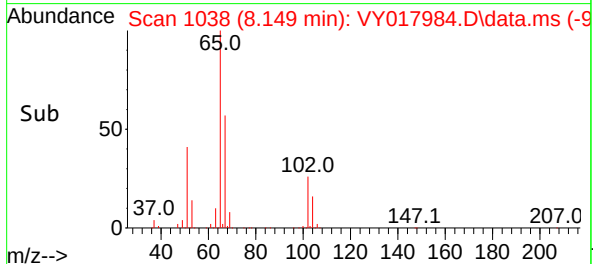
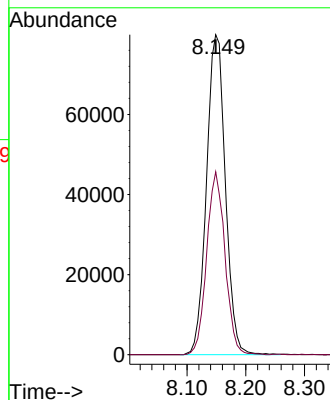
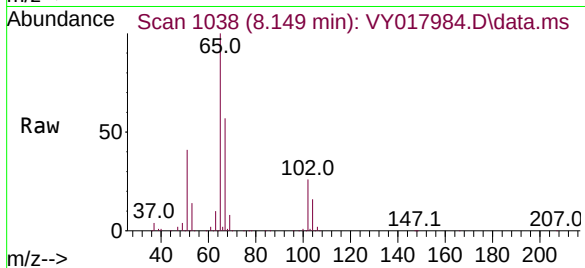
TOPSOIL-LKWD-DENALI-6

Tgt Ion: 65 Resp: 178578

Ion Ratio Lower Upper

65 100

67 55.4 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

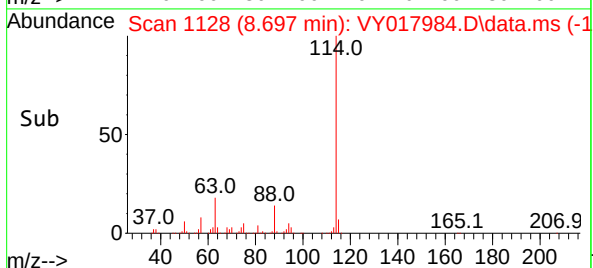
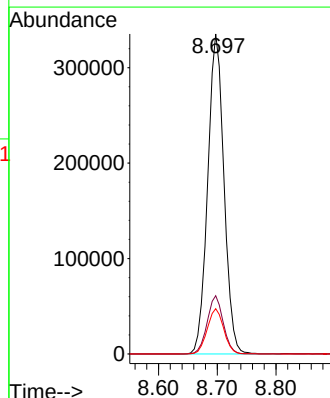
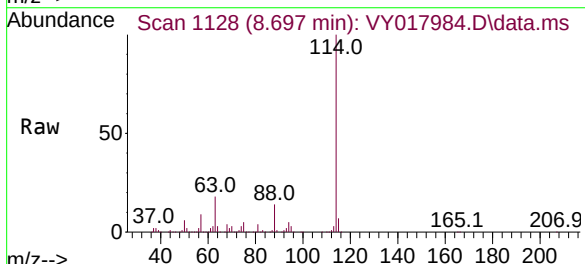
Tgt Ion: 114 Resp: 643837

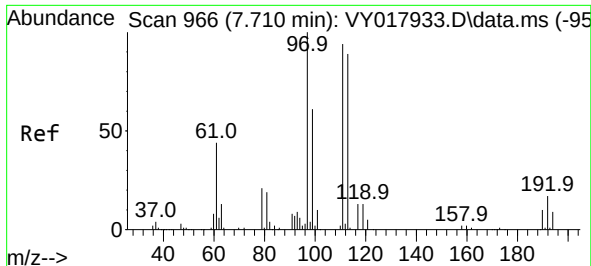
Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.0

88 14.1 0.0 27.2

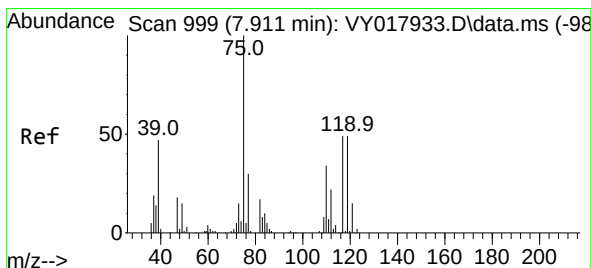
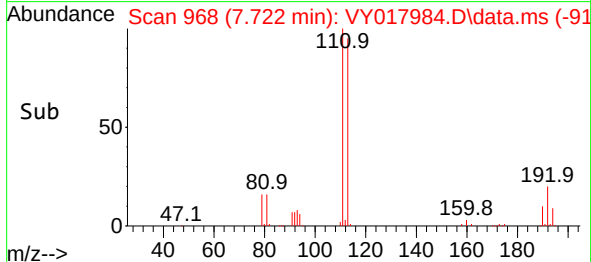
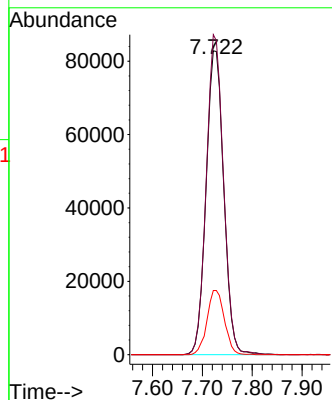
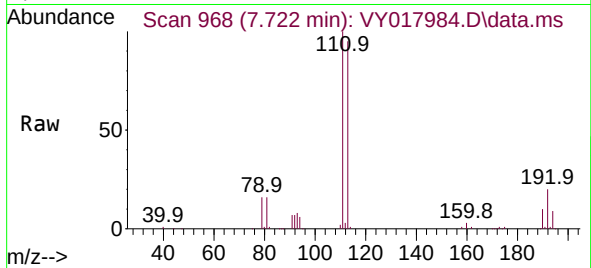




#35
Dibromofluoromethane
Concen: 51.34 ug/l
RT: 7.722 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

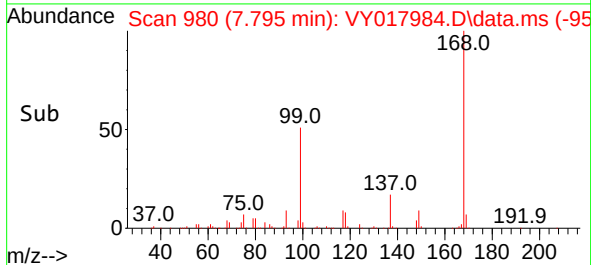
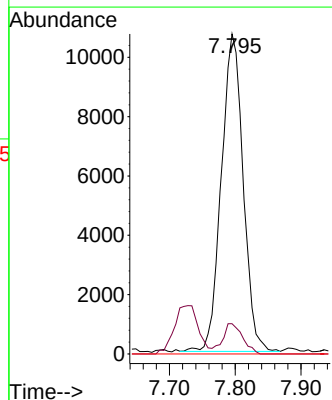
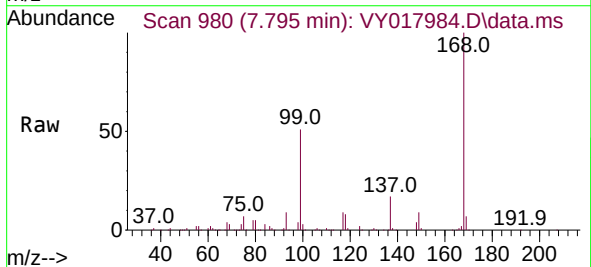
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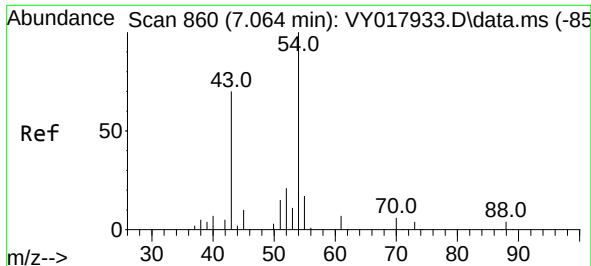
Tgt Ion:113 Resp: 203919
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.4
192 20.8 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.27 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.122 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 75 Resp: 24675
Ion Ratio Lower Upper
75 100
110 8.6 19.0 57.0#
77 0.0 25.3 37.9#

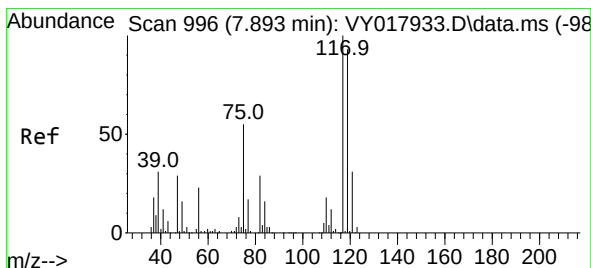
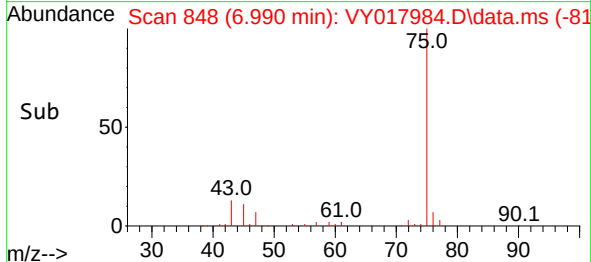
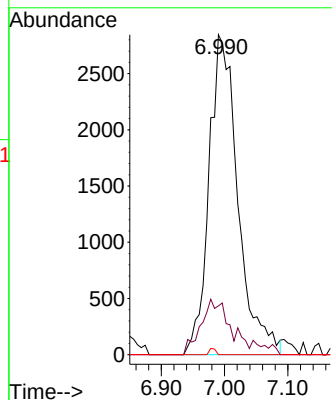
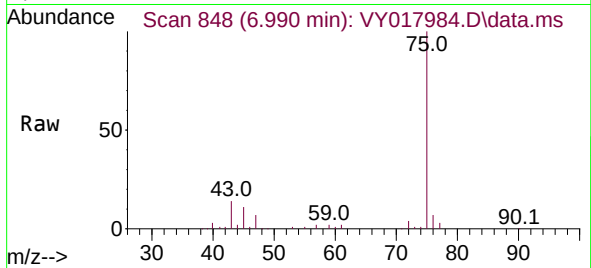




#37
Ethyl Acetate
Concen: 3.81 ug/l
RT: 6.990 min Scan# 84
Delta R.T. -0.085 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

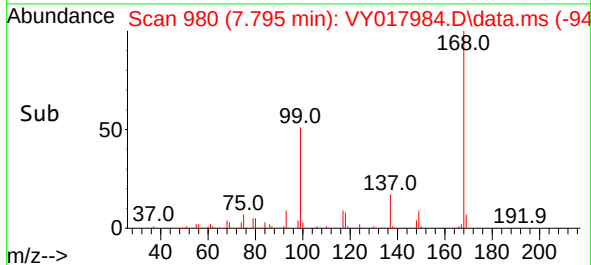
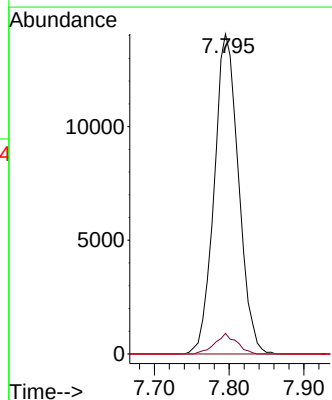
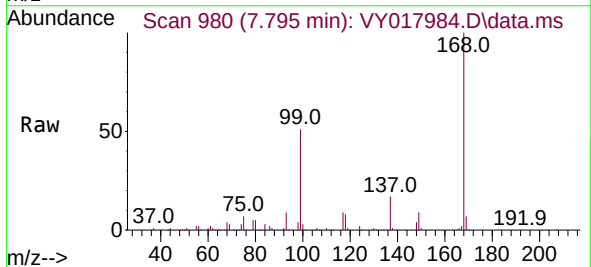
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

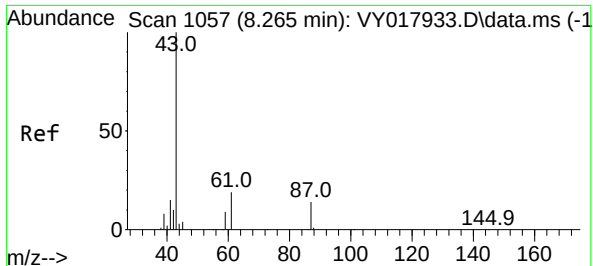
Tgt Ion: 43 Resp: 9049
Ion Ratio Lower Upper
43 100
61 17.5 12.6 19.0
70 0.4 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.45 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.110 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion:117 Resp: 31813
Ion Ratio Lower Upper
117 100
119 6.5 75.8 113.6#
121 0.0 24.0 36.0#

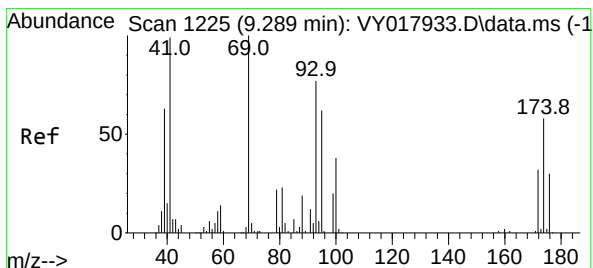
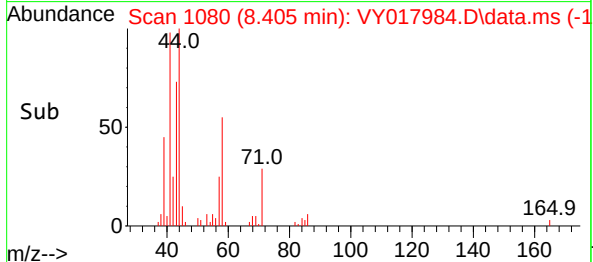
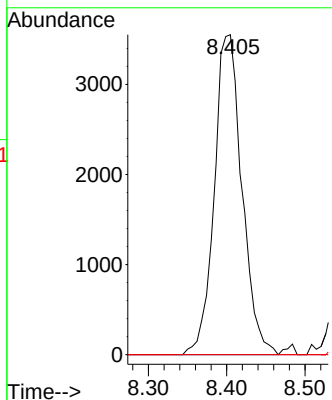
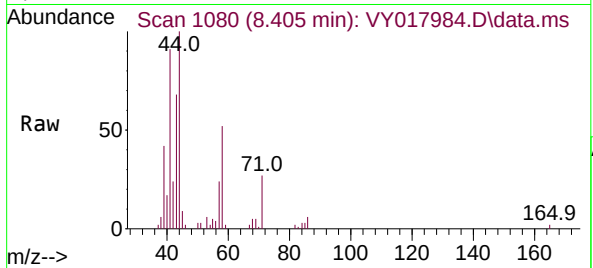




#43
Isopropyl Acetate
Concen: 1.96 ug/l
RT: 8.405 min Scan# 1080
Delta R.T. 0.134 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

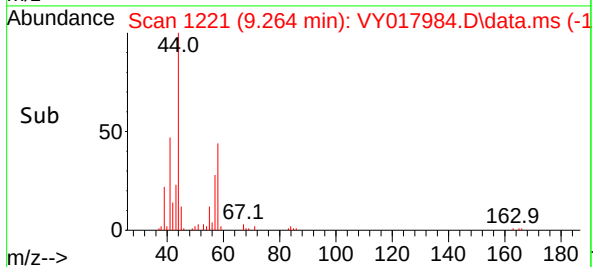
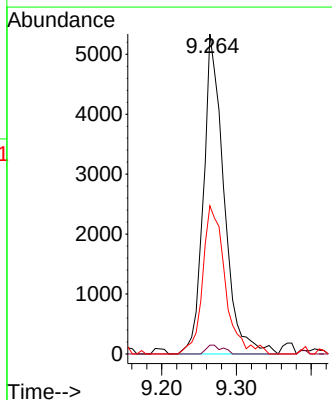
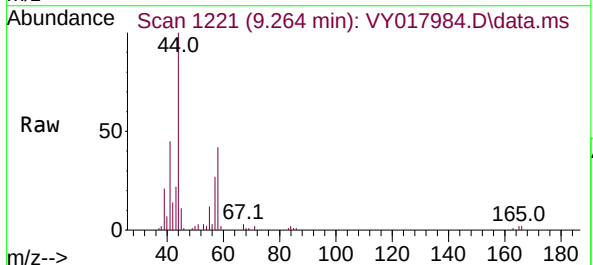
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

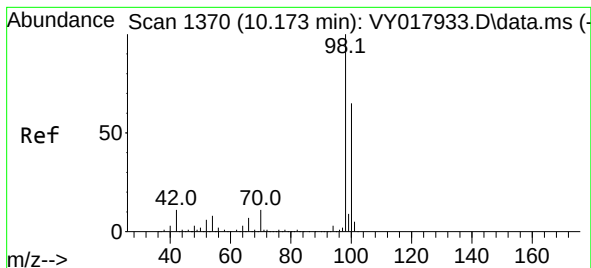
Tgt Ion: 43 Resp: 8705
Ion Ratio Lower Upper
43 100
61 0.0 27.9 41.9#
87 0.0 13.1 19.7#



#48
Methyl methacrylate
Concen: 5.00 ug/l
RT: 9.264 min Scan# 1221
Delta R.T. -0.030 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 41 Resp: 10160
Ion Ratio Lower Upper
41 100
69 2.2 84.1 126.1#
39 51.0 43.6 65.4





#50

Toluene-d8

Concen: 48.15 ug/l

RT: 10.191 min Scan# 1373

Delta R.T. 0.012 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

Instrument :

MSVOA_Y

ClientSampleId :

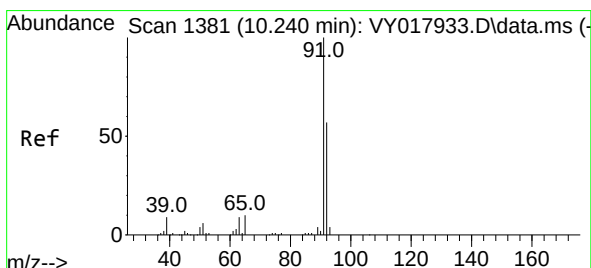
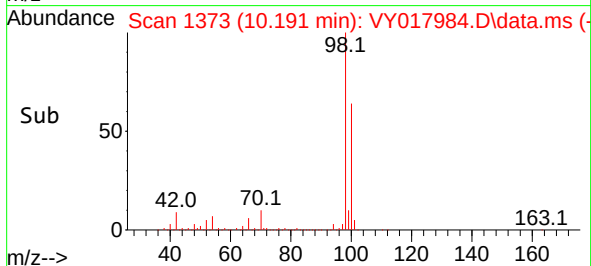
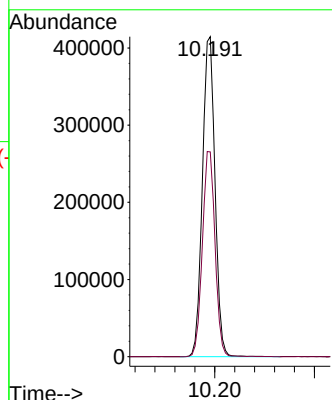
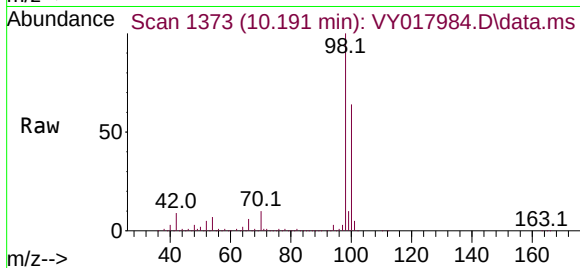
TOPSOIL-LKWD-DENALI-6

Tgt Ion: 98 Resp: 725688

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0



#52

Toluene

Concen: 1.18 ug/l

RT: 10.252 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VY017984.D

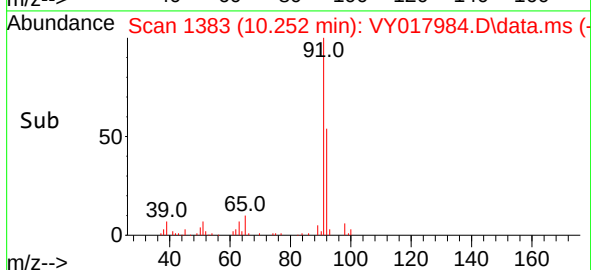
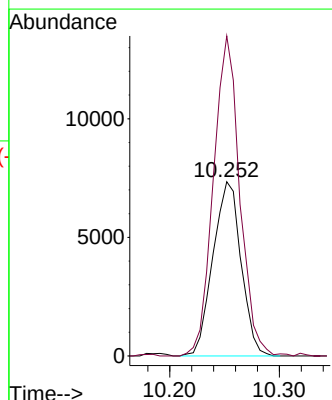
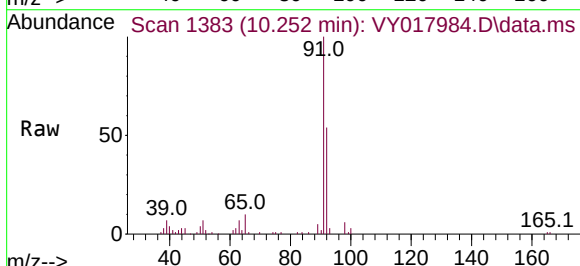
Acq: 18 Apr 2024 18:25

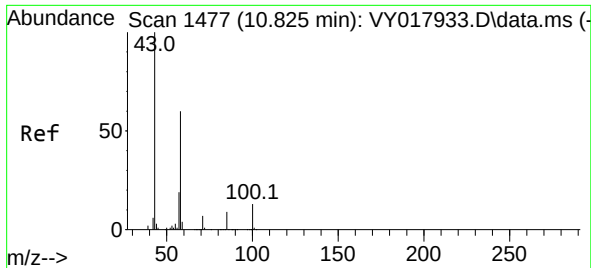
Tgt Ion: 92 Resp: 13101

Ion Ratio Lower Upper

92 100

91 172.2 139.0 208.6

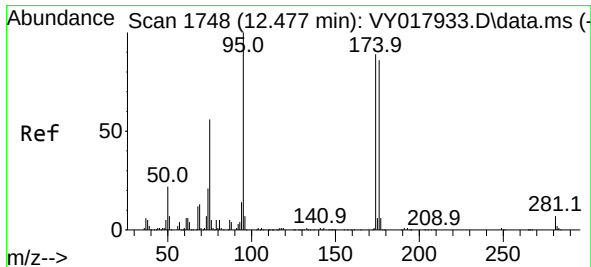
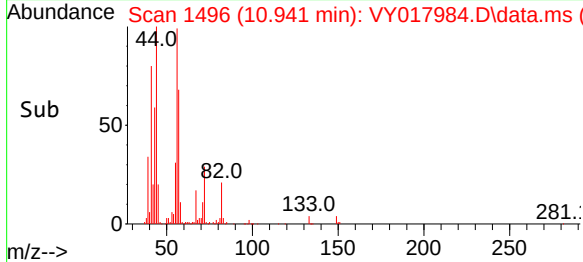
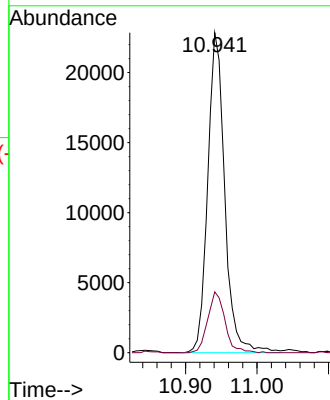
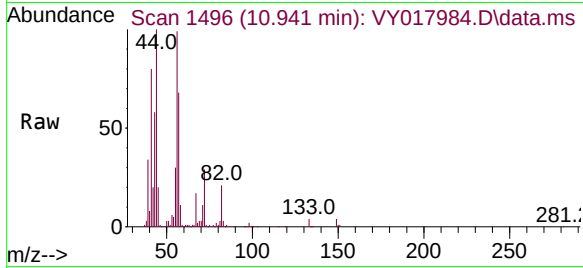




#59
2-Hexanone
Concen: 23.56 ug/l
RT: 10.941 min Scan# 1477
Delta R.T. 0.110 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

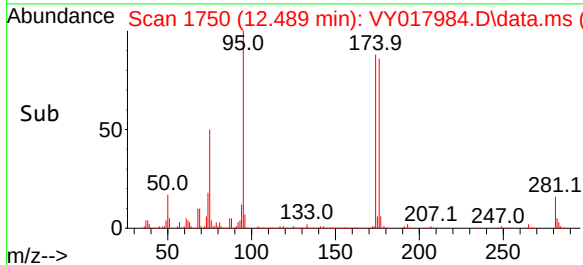
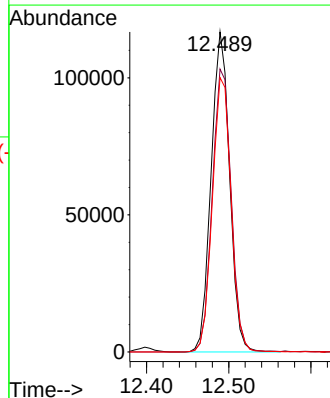
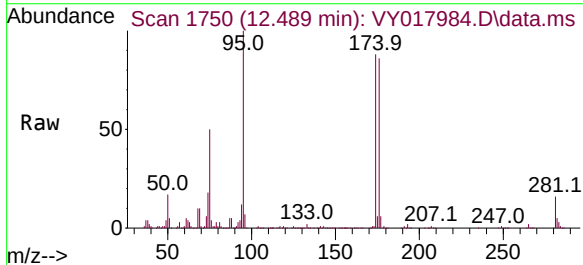
Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

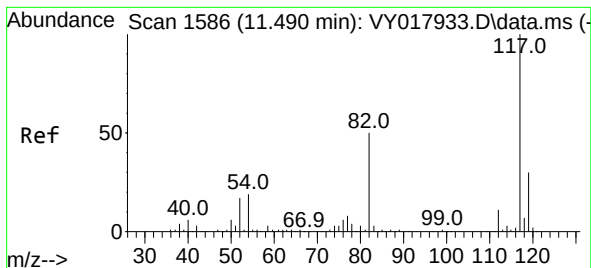
Tgt Ion: 43 Resp: 37779
Ion Ratio Lower Upper
43 100
58 19.3 31.4 94.0#



#62
4-Bromofluorobenzene
Concen: 39.16 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 95 Resp: 182790
Ion Ratio Lower Upper
95 100
174 90.2 0.0 175.6
176 86.9 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.502 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

Instrument :

MSVOA_Y

ClientSampleId :

TOPSOIL-LKWD-DENALI-6

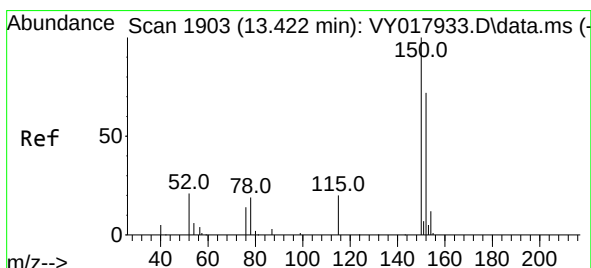
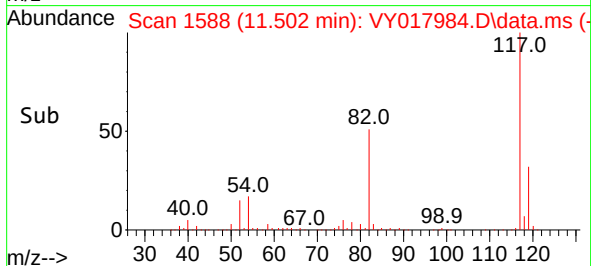
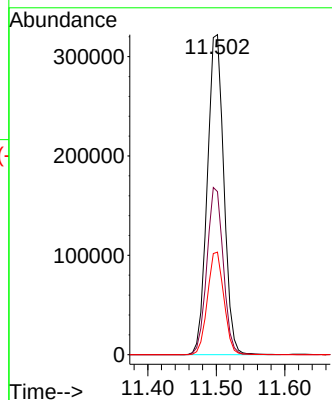
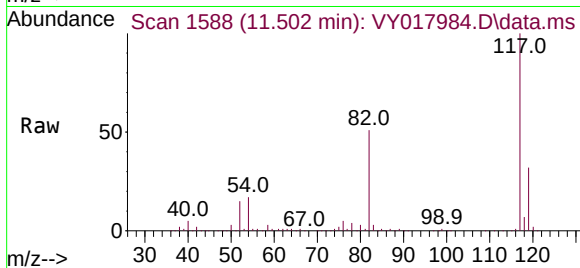
Tgt Ion:117 Resp: 541001

Ion Ratio Lower Upper

117 100

82 51.0 42.4 63.6

119 32.0 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017984.D

Acq: 18 Apr 2024 18:25

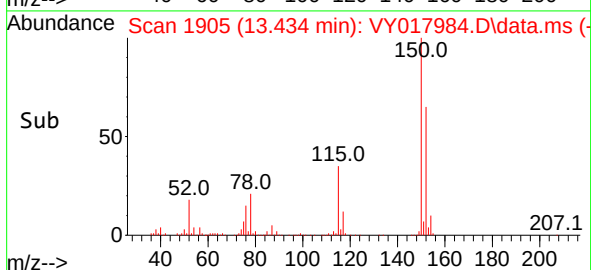
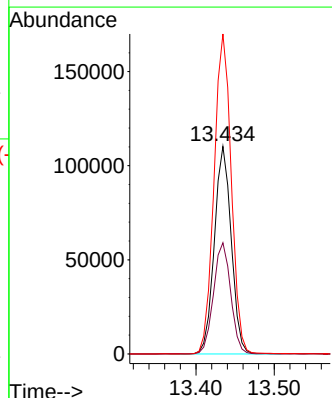
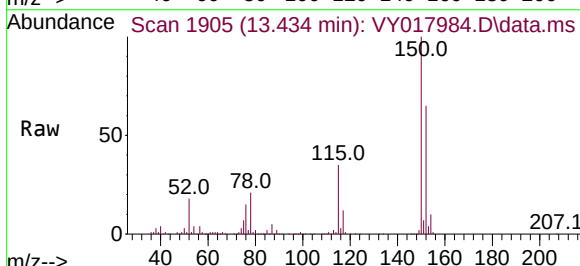
Tgt Ion:152 Resp: 165289

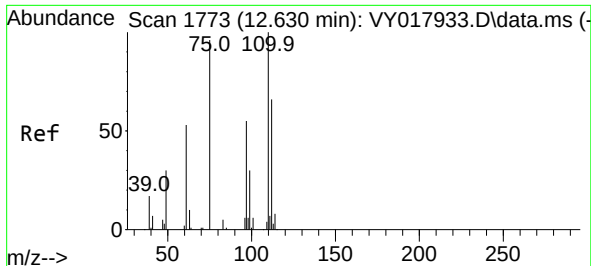
Ion Ratio Lower Upper

152 100

115 54.2 28.2 84.7

150 157.1 0.0 345.6

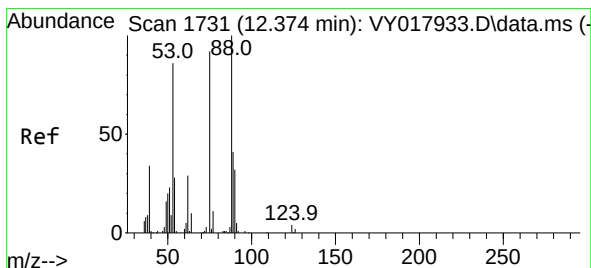
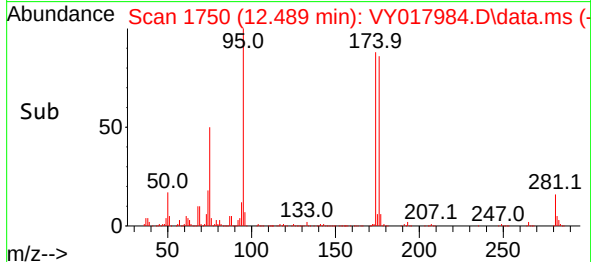
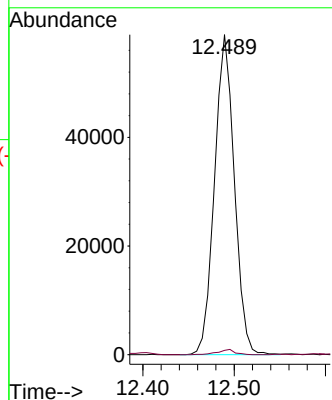
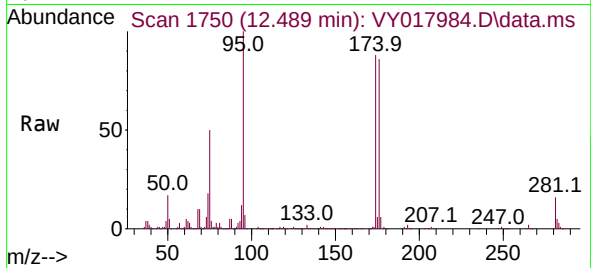




#76
1,2,3-Trichloropropane
Concen: 57.34 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.146 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Instrument :
MSVOA_Y
ClientSampleId :
TOPSOIL-LKWD-DENALI-6

Tgt Ion: 75 Resp: 88930
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 118.22 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY017984.D
Acq: 18 Apr 2024 18:25

Tgt Ion: 75 Resp: 88930
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.2 35.8 53.6#

