

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021425\
 Data File : VX044963.D
 Acq On : 14 Feb 2025 15:52
 Operator : JC/MD
 Sample : Q1356-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-PILE

Quant Time: Feb 14 22:15:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 11 03:41:08 2025
 Response via : Initial Calibration

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

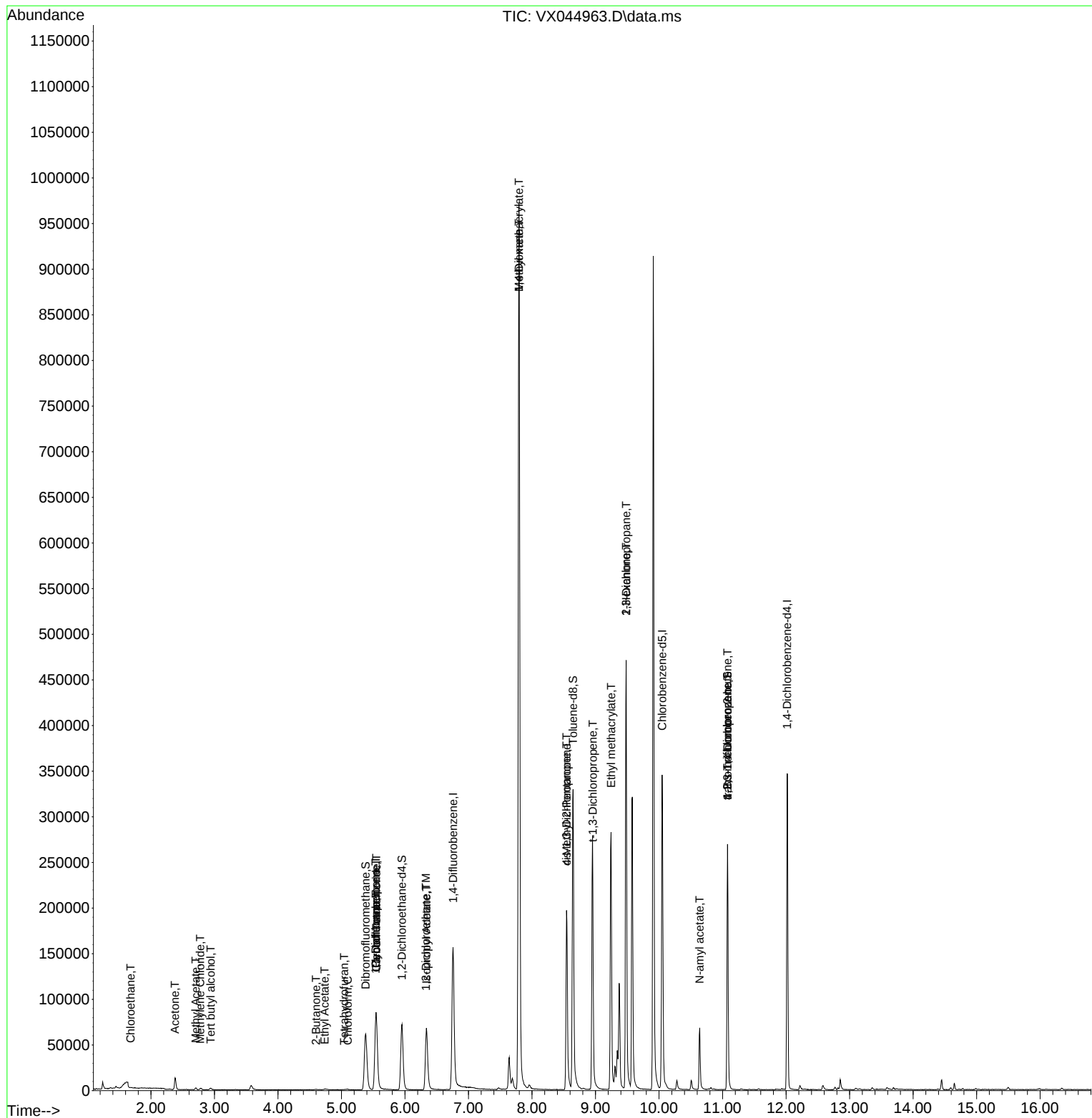
Internal Standards						
1) Pentafluorobenzene	5.544	168	80113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	164255	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150904	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67224	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66539	56.740	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 113.480%	
35) Dibromofluoromethane	5.379	113	55269	51.753	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.500%	
50) Toluene-d8	8.647	98	204924	50.745	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.500%	
62) 4-Bromofluorobenzene	11.079	95	72007	52.892	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 105.780%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.679	64	79	1.464	ug/l #	42
11) Tert butyl alcohol	2.941	59	1093	5.024	ug/l #	73
16) Acetone	2.380	43	13834	29.344	ug/l	98
18) Methyl Acetate	2.703	43	2515	1.691	ug/l	91
20) Methylene Chloride	2.776	84	876	0.759	ug/l #	71
25) 2-Butanone	4.599	43	647	0.845	ug/l #	88
29) Tetrahydrofuran	5.044	42	427	0.840	ug/l #	41
30) Chloroform	5.099	83	836	0.436	ug/l #	81
31) Cyclohexane	5.544	56	1946	1.069	ug/l #	6
36) 1,1-Dichloropropene	5.538	75	7304	4.741	ug/l #	48
37) Ethyl Acetate	4.733	43	2565	1.497	ug/l #	79
38) Carbon Tetrachloride	5.550	117	8304	5.500	ug/l #	14
42) 1,2-Dichloroethane	6.330	62	359	0.234	ug/l #	74
43) Isopropyl Acetate	6.336	43	96164	34.749	ug/l	99
48) Methyl methacrylate	7.793	41	85622	65.617	ug/l #	44
49) 1,4-Dioxane	7.793	88	150	5.358	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	75149	44.667	ug/l #	49
53) t-1,3-Dichloropropene	8.958	75	655	0.403	ug/l #	42
54) cis-1,3-Dichloropropene	8.543	75	33989	18.743	ug/l #	62
56) Ethyl methacrylate	9.244	69	639	0.359	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	4093	2.124	ug/l #	42
59) 2-Hexanone	9.482	43	59651	49.208	ug/l #	51
74) N-amyl acetate	10.640	43	18038	7.364	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	38684	25.955	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	38684	66.765	ug/l #	11

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

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Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

Quant Time: Feb 14 22:15:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021025W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 11 03:41:08 2025
Response via : Initial Calibration

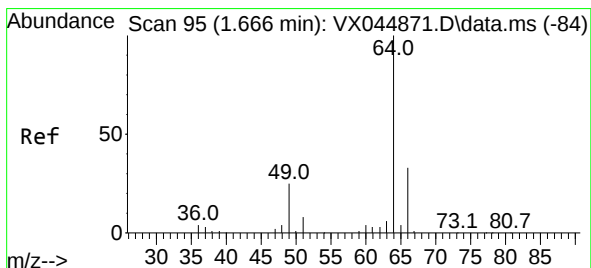
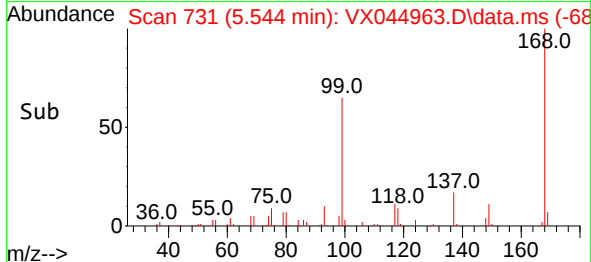
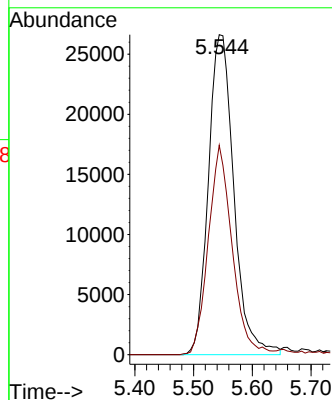
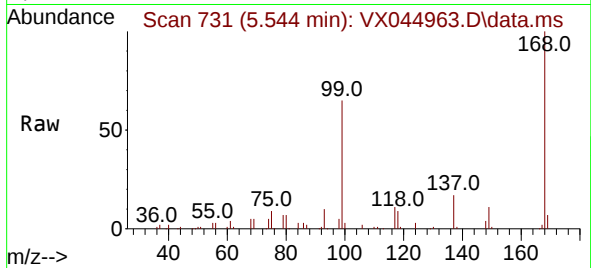




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

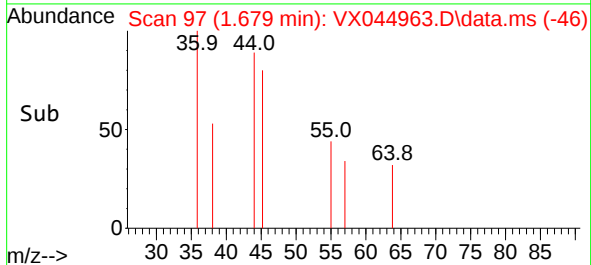
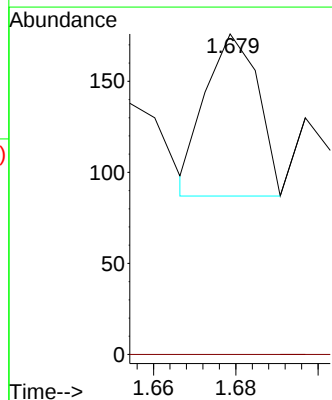
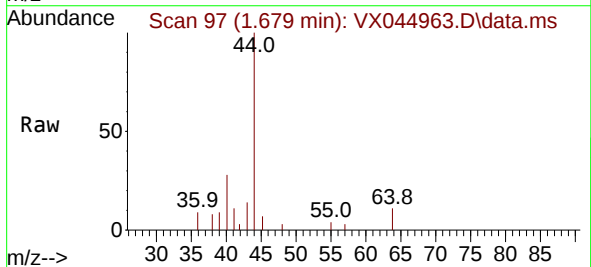
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

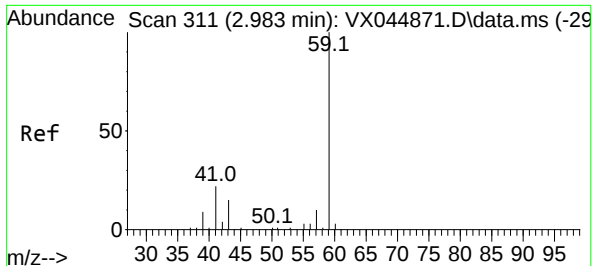
Tgt Ion:168 Resp: 80113
Ion Ratio Lower Upper
168 100
99 65.5 51.2 76.8



#6
Chloroethane
Concen: 1.464 ug/l
RT: 1.679 min Scan# 97
Delta R.T. 0.013 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 64 Resp: 79
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#





#11

Tert butyl alcohol

Concen: 5.024 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.042 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

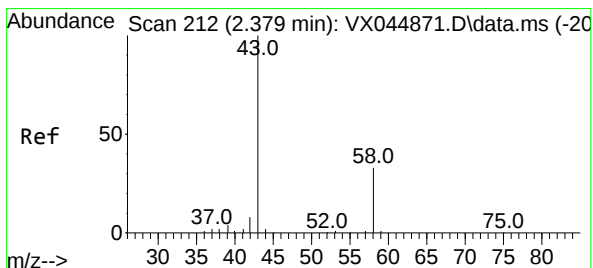
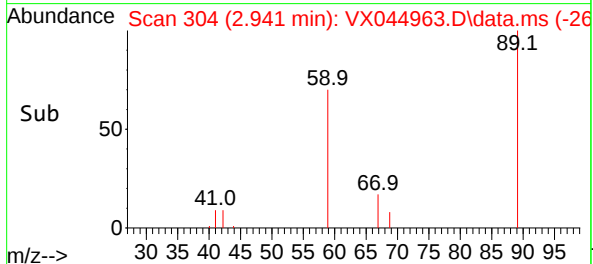
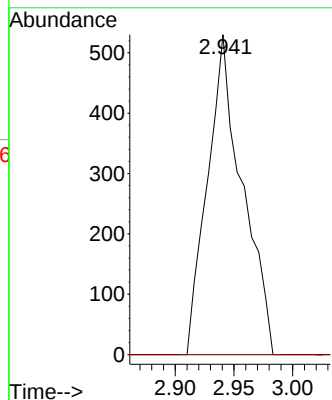
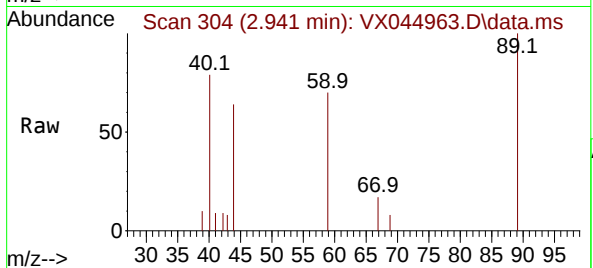
SOIL-PILE

Tgt Ion: 59 Resp: 1093

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#16

Acetone

Concen: 29.344 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX044963.D

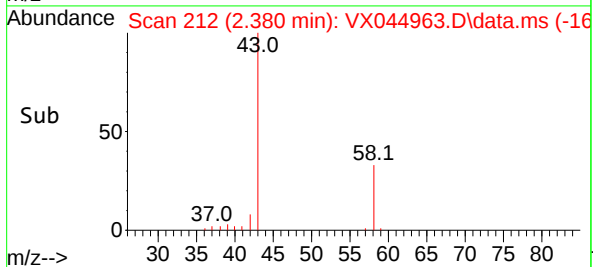
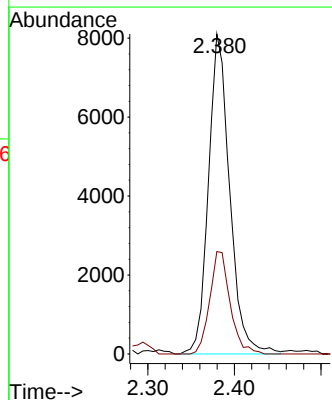
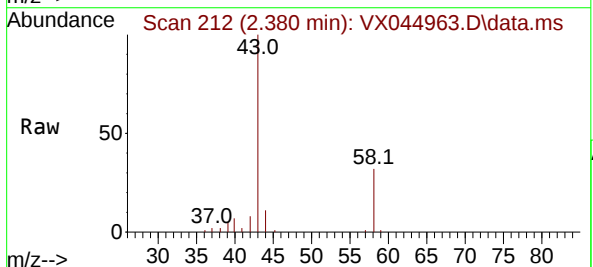
Acq: 14 Feb 2025 15:52

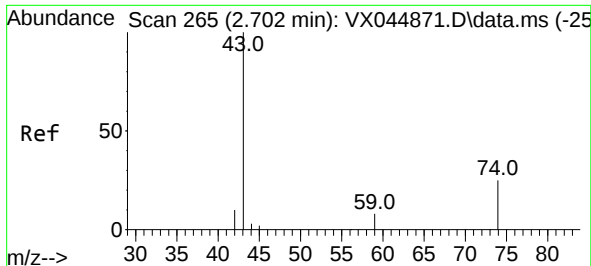
Tgt Ion: 43 Resp: 13834

Ion Ratio Lower Upper

43 100

58 32.0 26.5 39.7

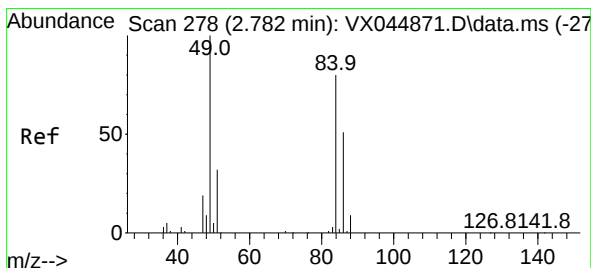
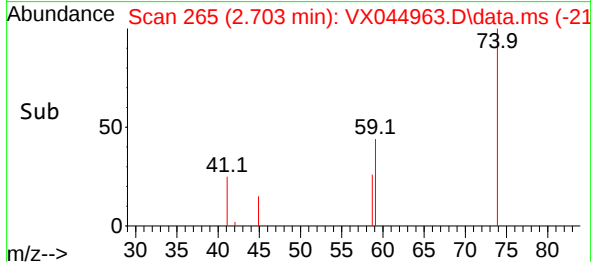
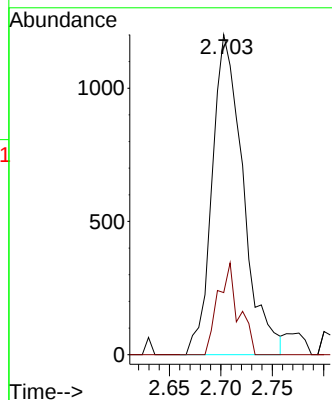
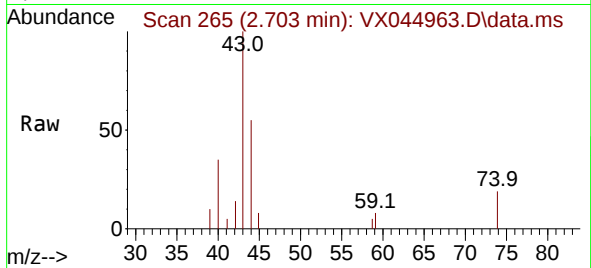




#18
Methyl Acetate
Concen: 1.691 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

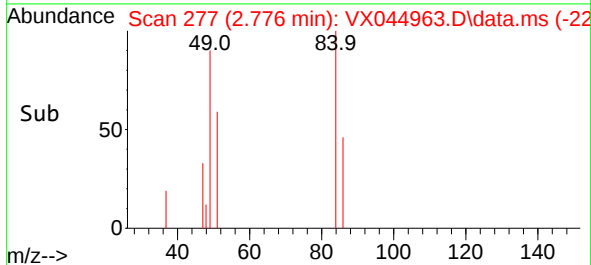
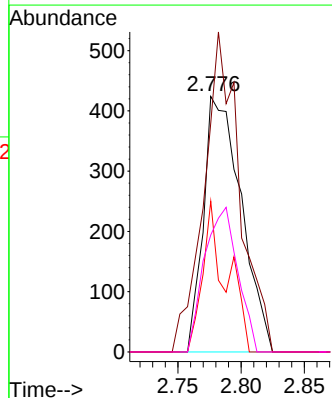
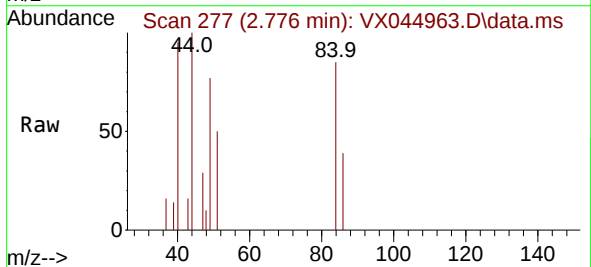
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

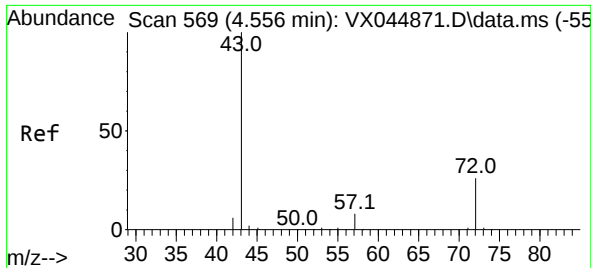
Tgt Ion: 43 Resp: 2515
Ion Ratio Lower Upper
43 100
74 19.1 18.9 28.3



#20
Methylene Chloride
Concen: 0.759 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 84 Resp: 876
Ion Ratio Lower Upper
84 100
49 89.6 100.1 150.1#
51 59.0 31.7 47.5#
86 45.8 50.8 76.2#

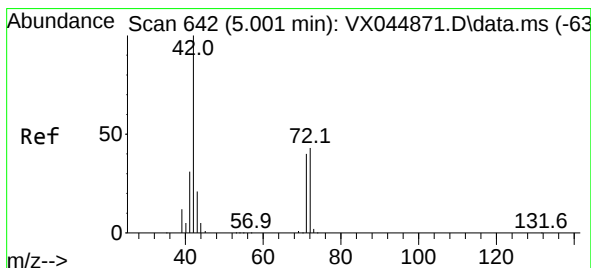
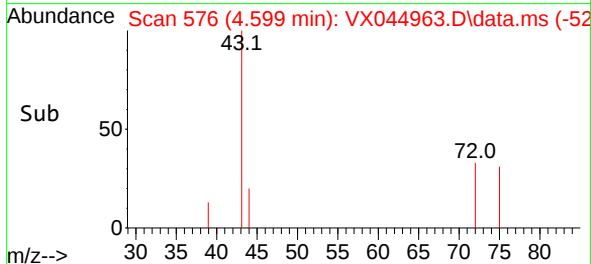
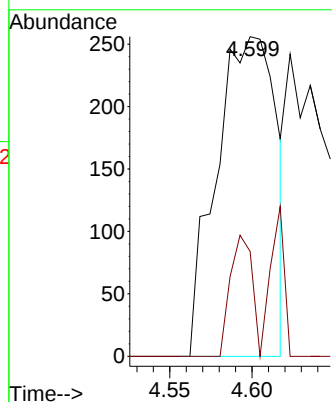
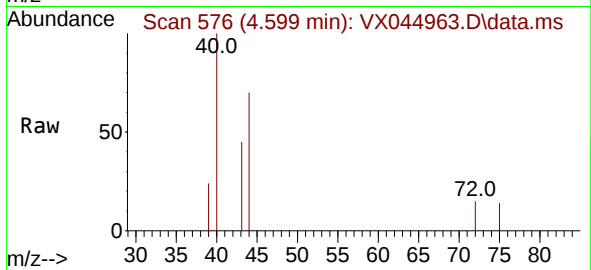




#25
2-Butanone
Concen: 0.845 ug/l
RT: 4.599 min Scan# 51
Delta R.T. 0.043 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

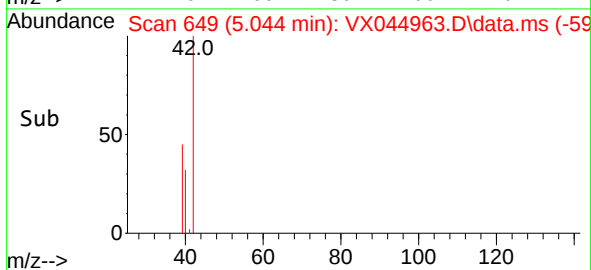
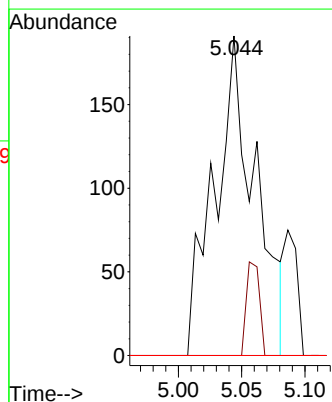
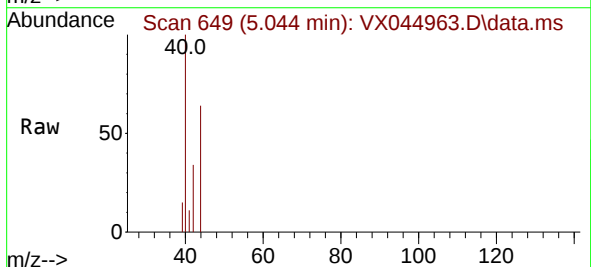
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

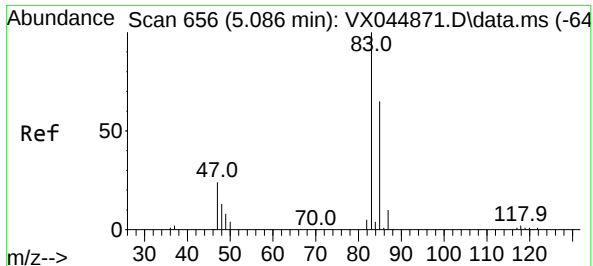
Tgt Ion: 43 Resp: 647
Ion Ratio Lower Upper
43 100
72 32.8 21.2 31.8#



#29
Tetrahydrofuran
Concen: 0.840 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.043 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 42 Resp: 427
Ion Ratio Lower Upper
42 100
72 9.4 35.0 52.4#
71 0.0 32.6 48.8#





#30

Chloroform

Concen: 0.436 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.013 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

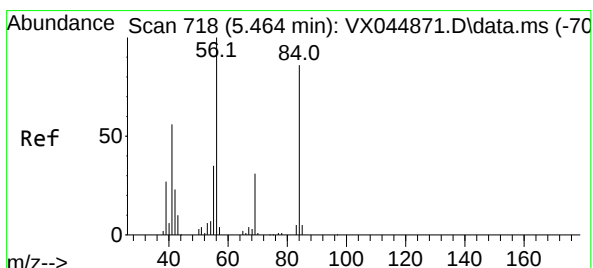
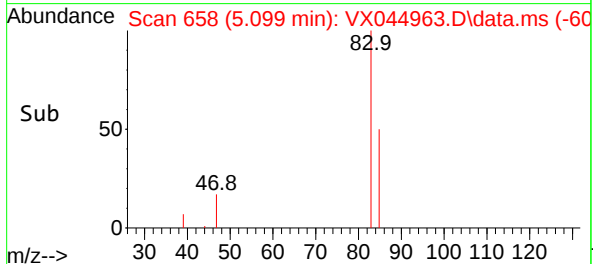
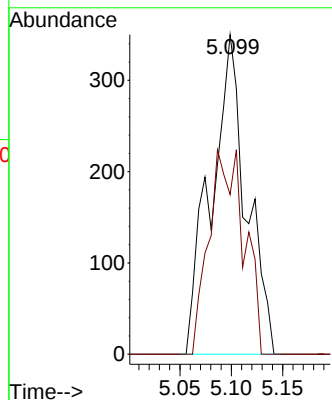
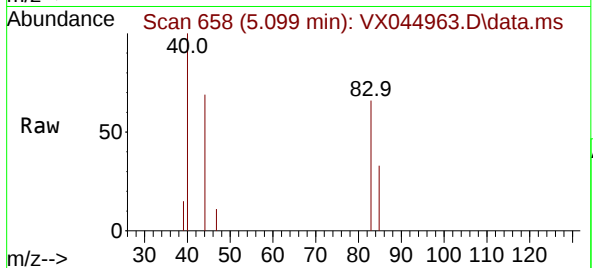
SOIL-PILE

Tgt Ion: 83 Resp: 836

Ion Ratio Lower Upper

83 100

85 50.0 52.1 78.1#



#31

Cyclohexane

Concen: 1.069 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.080 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

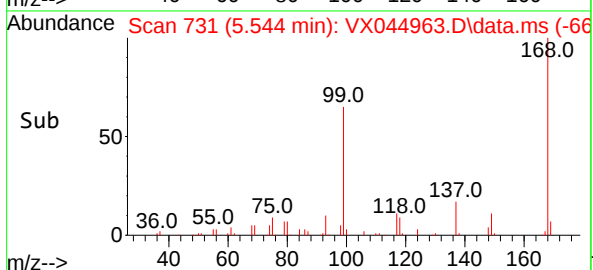
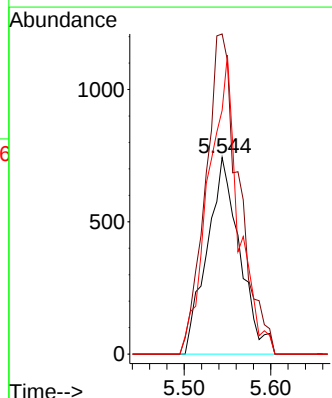
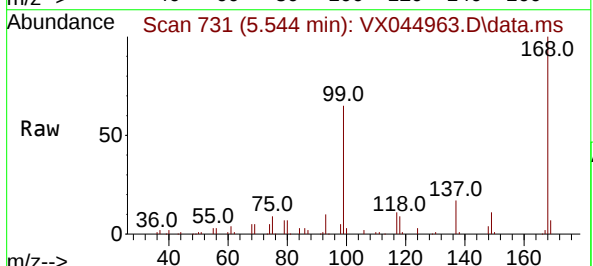
Tgt Ion: 56 Resp: 1946

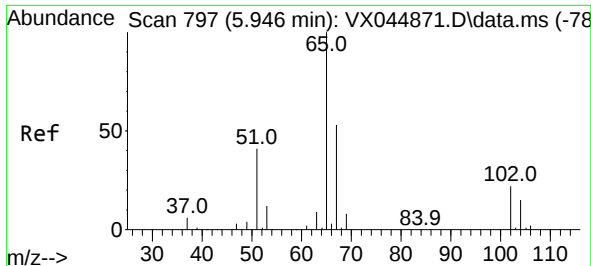
Ion Ratio Lower Upper

56 100

69 162.9 24.4 36.6#

84 124.0 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 56.740 ug/l

RT: 5.952 min Scan# 79

Delta R.T. 0.006 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

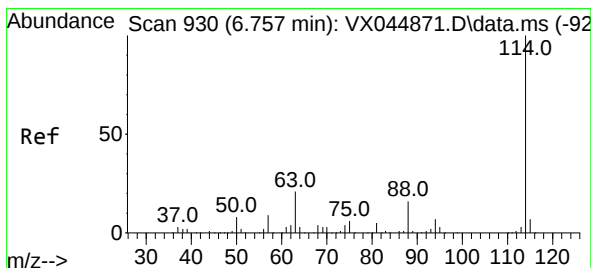
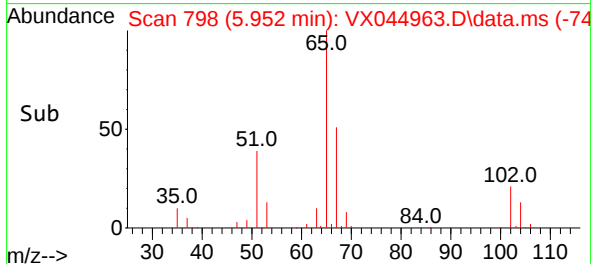
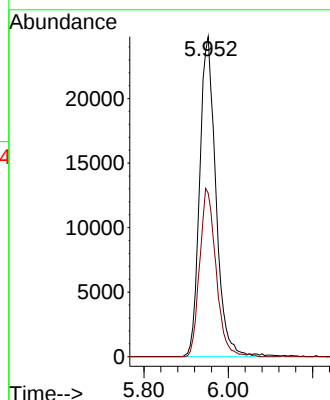
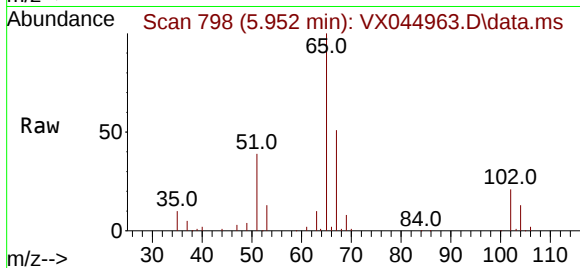
SOIL-PILE

Tgt Ion: 65 Resp: 66539

Ion Ratio Lower Upper

65 100

67 52.7 0.0 108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

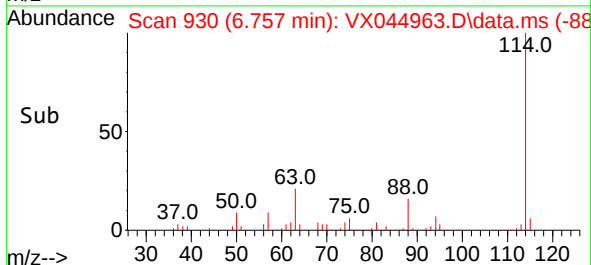
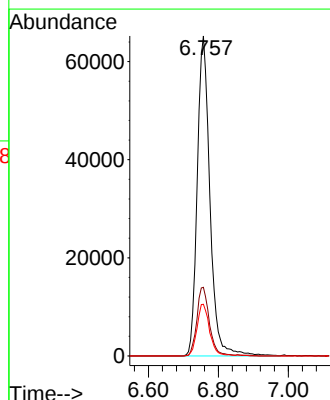
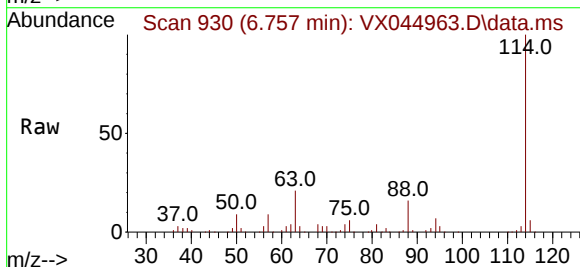
Tgt Ion: 114 Resp: 164255

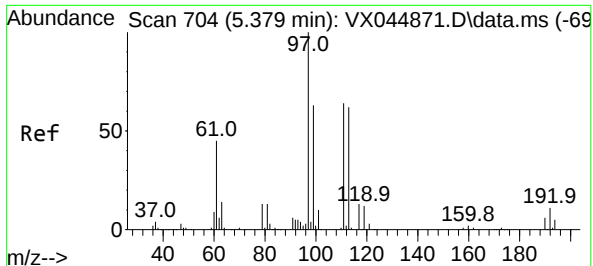
Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 16.2 0.0 31.4

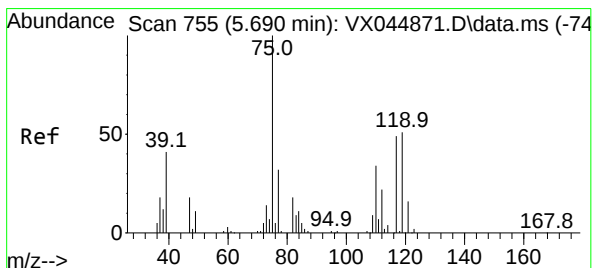
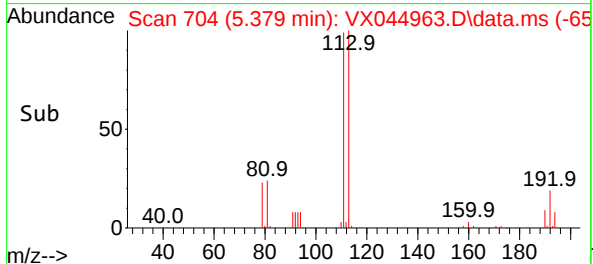
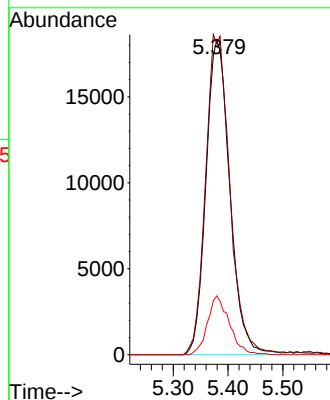
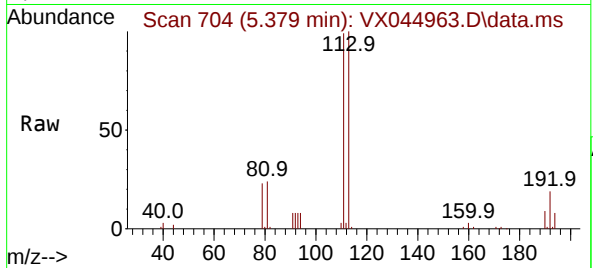




#35
Dibromofluoromethane
Concen: 51.753 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

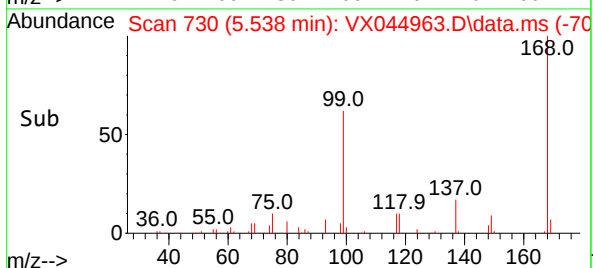
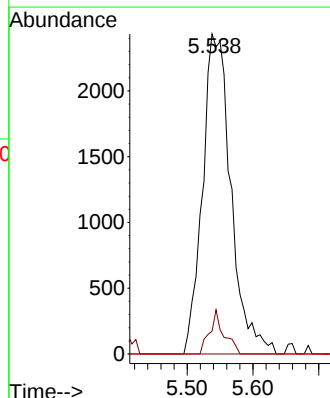
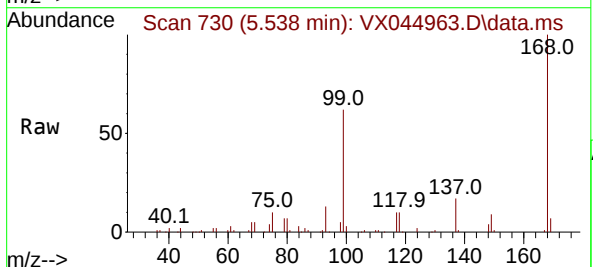
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

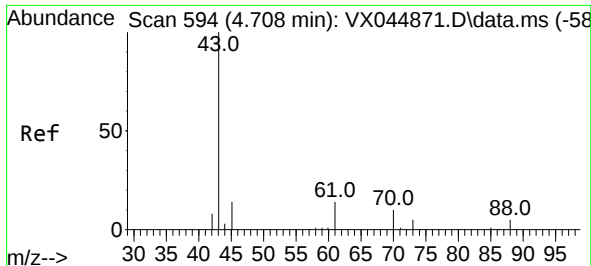
Tgt Ion:113 Resp: 55269
Ion Ratio Lower Upper
113 100
111 103.5 83.5 125.3
192 17.1 14.4 21.6



#36
1,1-Dichloropropene
Concen: 4.741 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.152 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 75 Resp: 7304
Ion Ratio Lower Upper
75 100
110 6.9 17.2 51.6#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.497 ug/l

RT: 4.733 min Scan# 594

Delta R.T. 0.025 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

SOIL-PILE

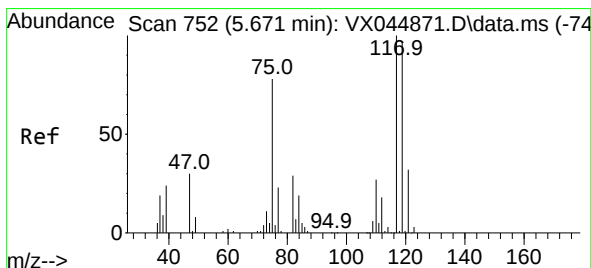
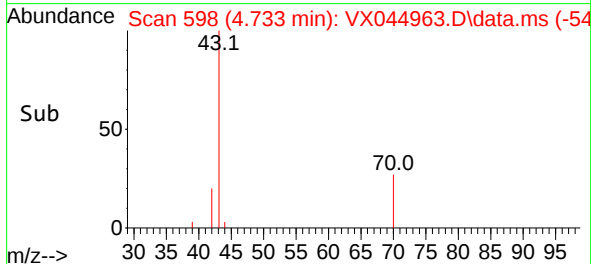
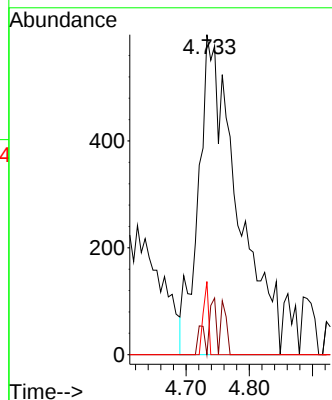
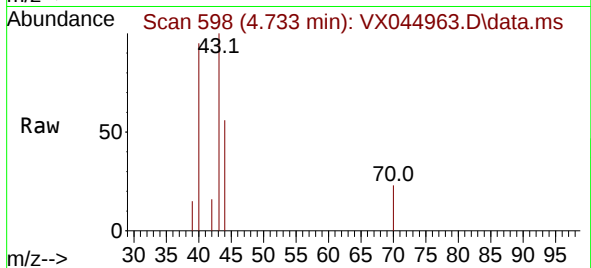
Tgt Ion: 43 Resp: 2565

Ion Ratio Lower Upper

43 100

61 4.4 11.0 16.4#

70 3.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 5.500 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.122 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

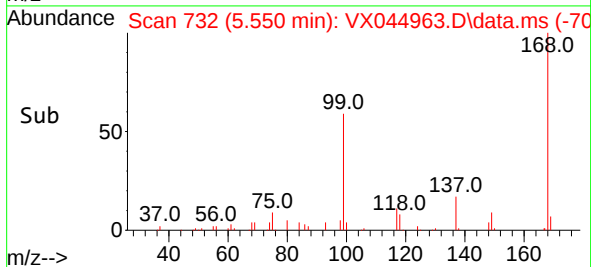
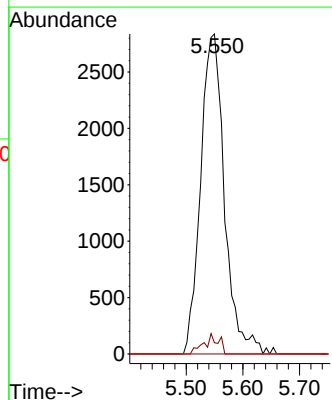
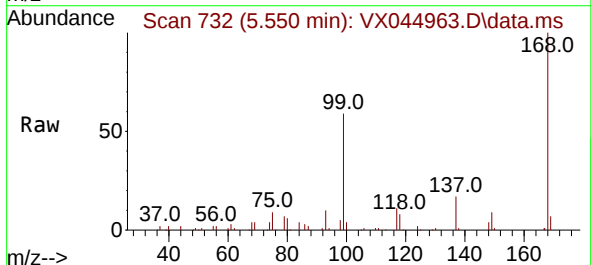
Tgt Ion: 117 Resp: 8304

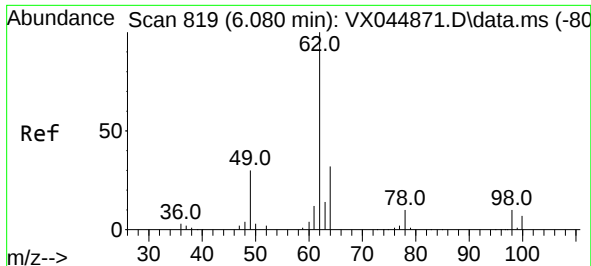
Ion Ratio Lower Upper

117 100

119 3.5 77.5 116.3#

121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.234 ug/l

RT: 6.330 min Scan# 819

Delta R.T. 0.250 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

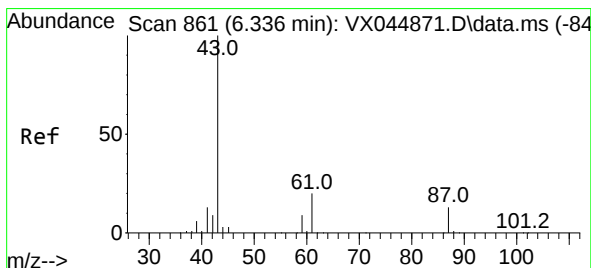
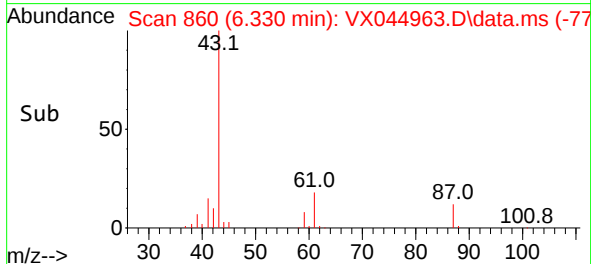
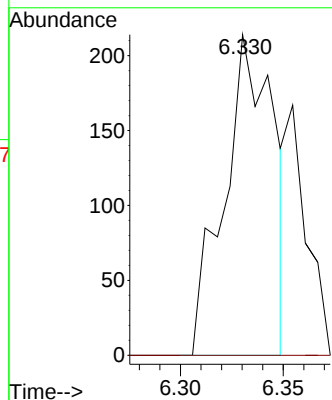
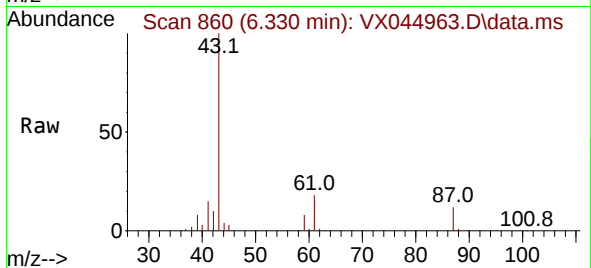
SOIL-PILE

Tgt Ion: 62 Resp: 359

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.4



#43

Isopropyl Acetate

Concen: 34.749 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

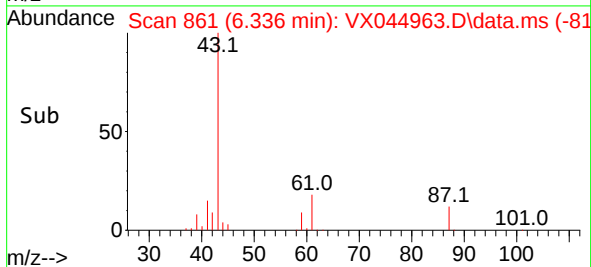
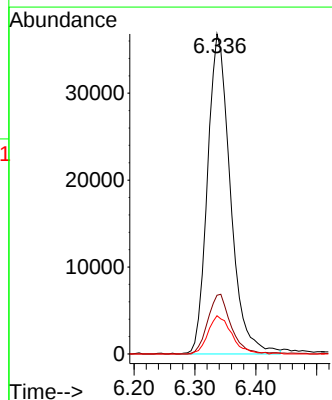
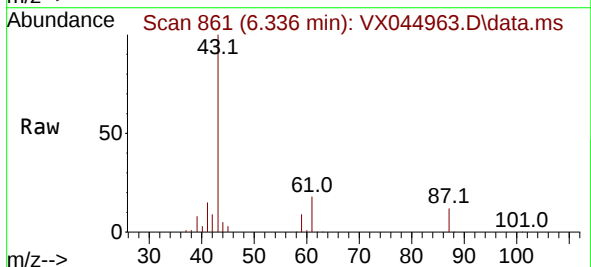
Tgt Ion: 43 Resp: 96164

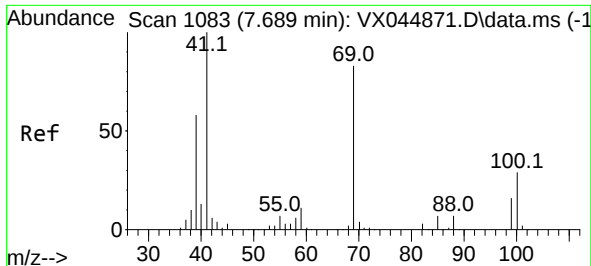
Ion Ratio Lower Upper

43 100

61 18.9 15.8 23.8

87 12.3 10.0 15.0

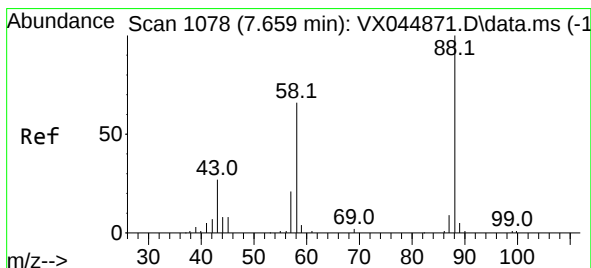
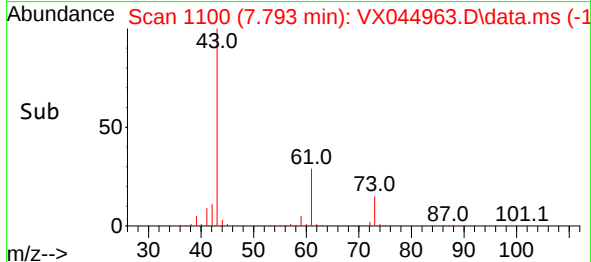
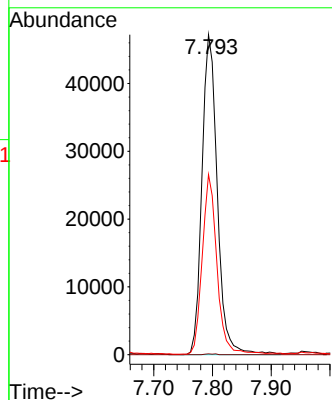
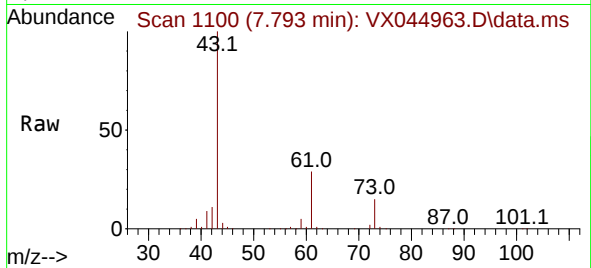




#48
Methyl methacrylate
Concen: 65.617 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

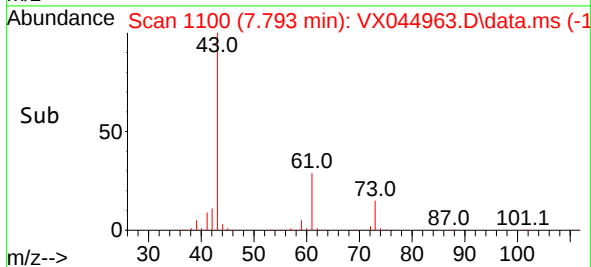
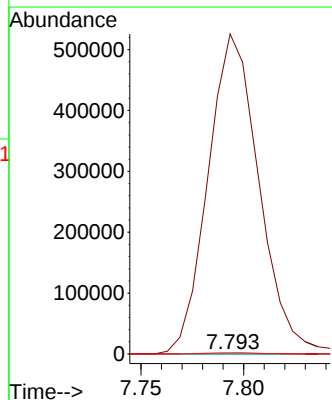
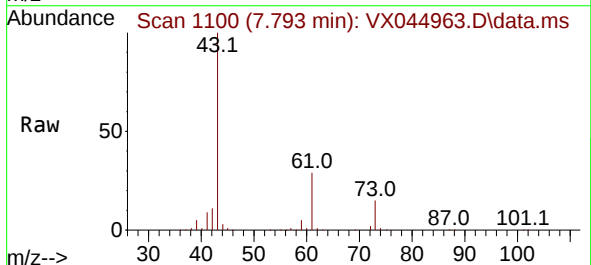
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

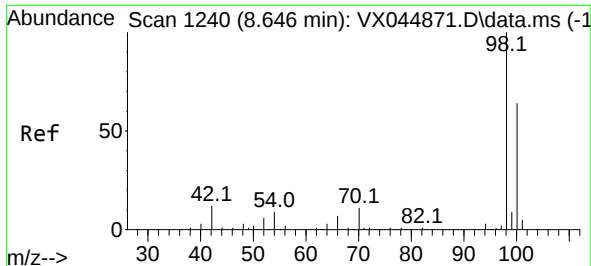
Tgt Ion: 41 Resp: 85622
Ion Ratio Lower Upper
41 100
69 0.2 65.8 98.8#
39 53.5 46.4 69.6



#49
1,4-Dioxane
Concen: 5.358 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.135 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 88 Resp: 150
Ion Ratio Lower Upper
88 100
43 617362.7 26.6 39.8#
58 2471.3 55.9 83.9#





#50

Toluene-d8

Concen: 50.745 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

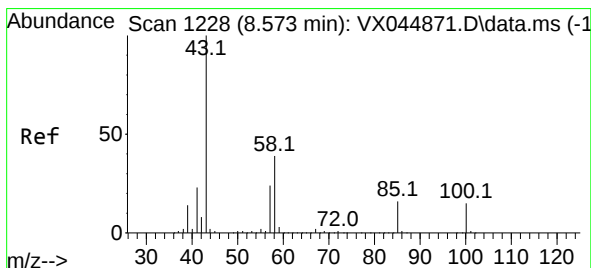
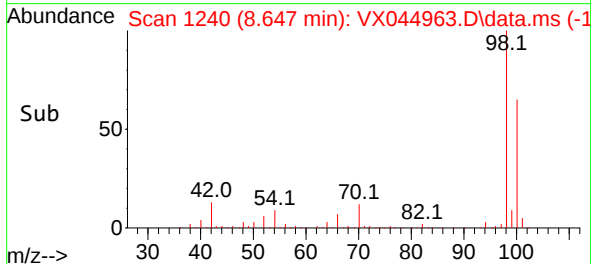
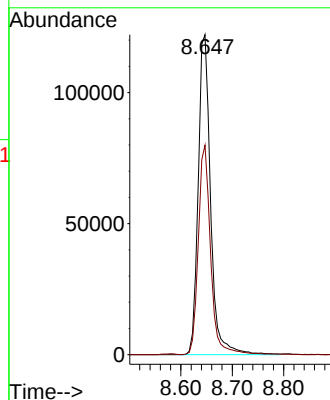
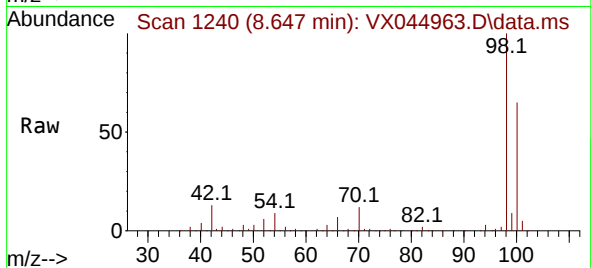
SOIL-PILE

Tgt Ion: 98 Resp: 204924

Ion Ratio Lower Upper

98 100

100 64.9 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 44.667 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. -0.030 min

Lab File: VX044963.D

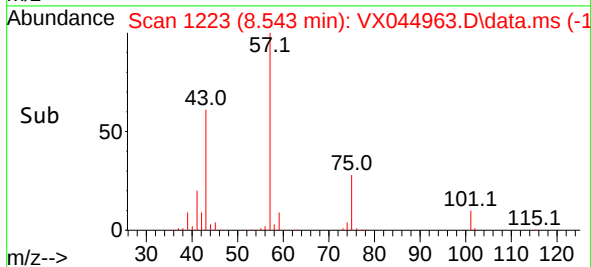
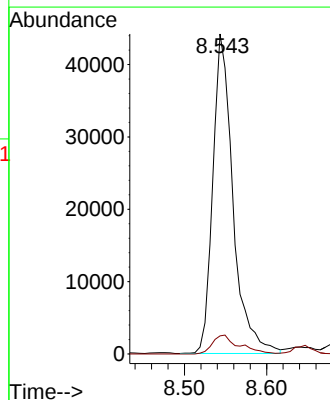
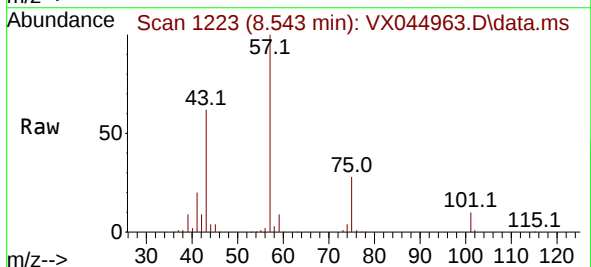
Acq: 14 Feb 2025 15:52

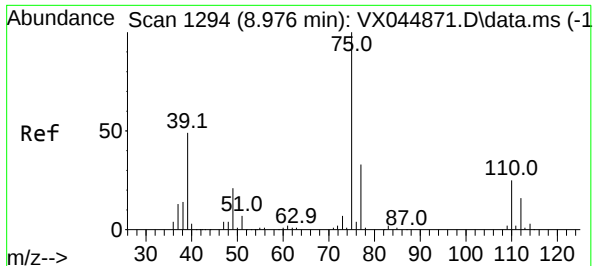
Tgt Ion: 43 Resp: 75149

Ion Ratio Lower Upper

43 100

58 7.8 30.8 46.2#





#53

t-1,3-Dichloropropene

Concen: 0.403 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

Instrument :

MSVOA_X

ClientSampleId :

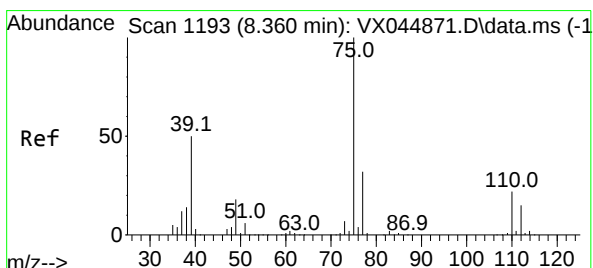
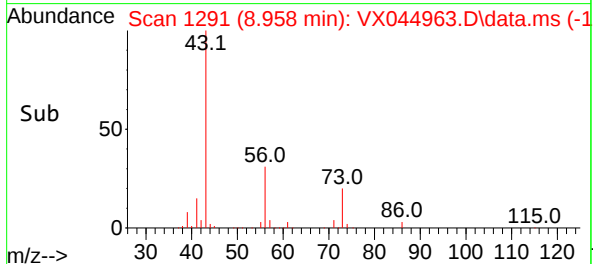
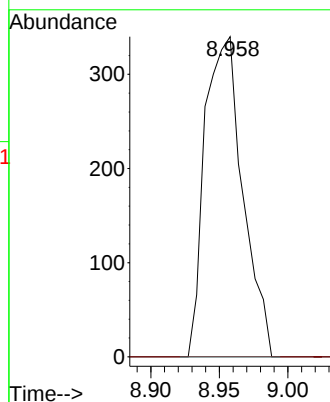
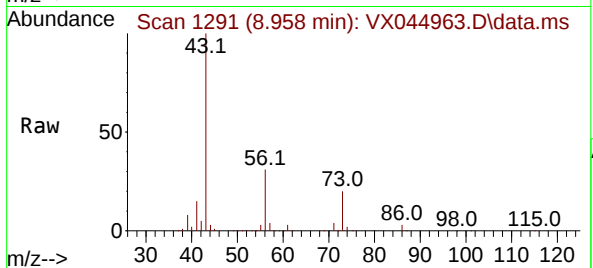
SOIL-PILE

Tgt Ion: 75 Resp: 655

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#



#54

cis-1,3-Dichloropropene

Concen: 18.743 ug/l

RT: 8.543 min Scan# 1223

Delta R.T. 0.183 min

Lab File: VX044963.D

Acq: 14 Feb 2025 15:52

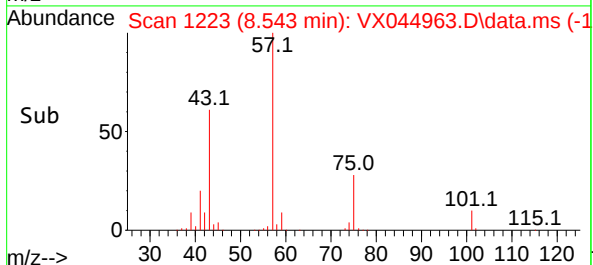
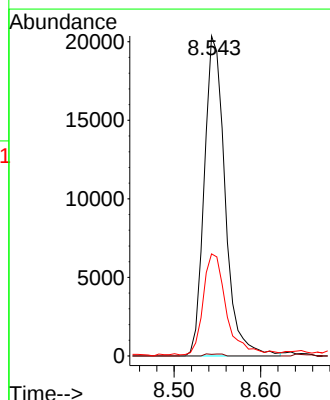
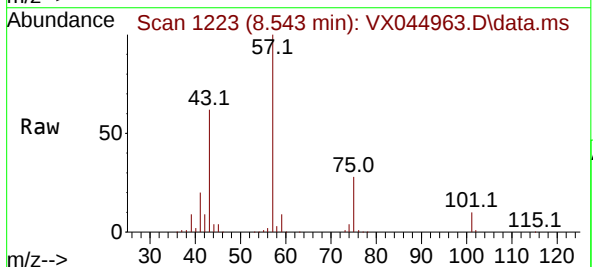
Tgt Ion: 75 Resp: 33989

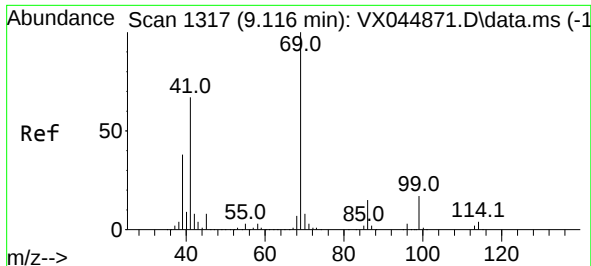
Ion Ratio Lower Upper

75 100

77 0.5 25.3 37.9#

39 31.5 40.0 60.0#

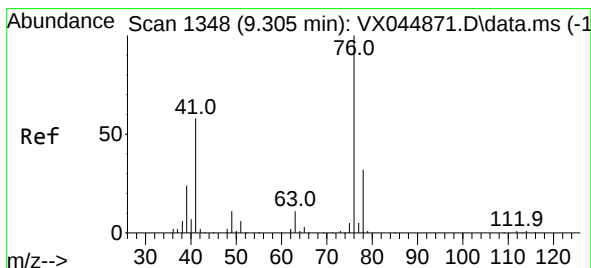
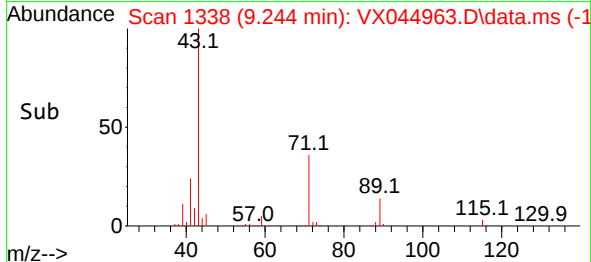
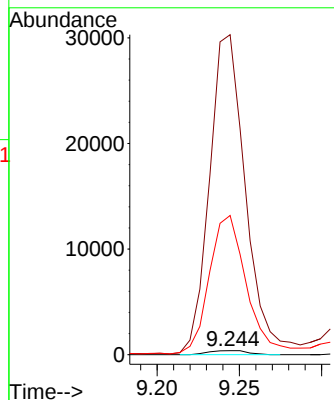
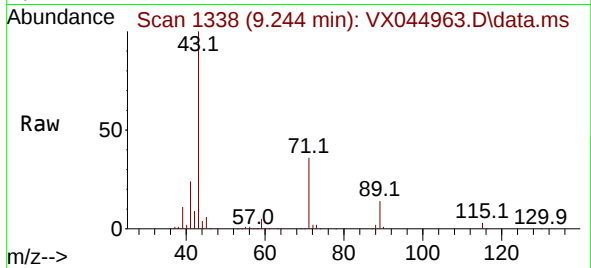




#56
Ethyl methacrylate
Concen: 0.359 ug/l
RT: 9.244 min Scan# 11
Delta R.T. 0.128 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

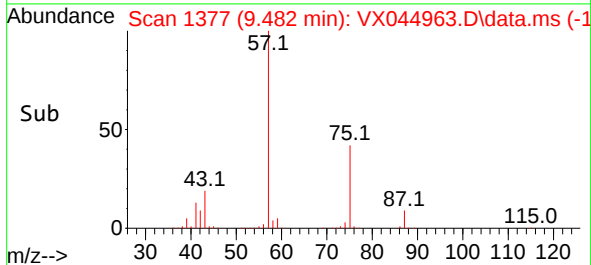
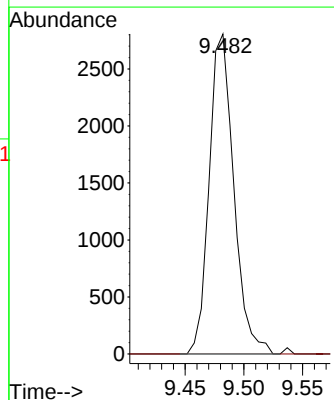
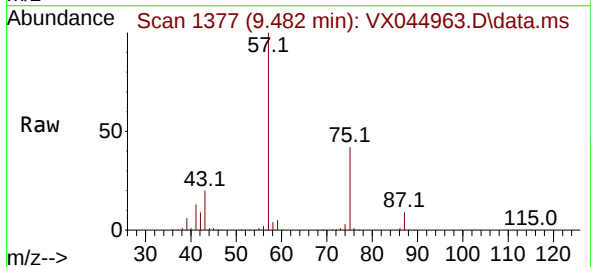
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

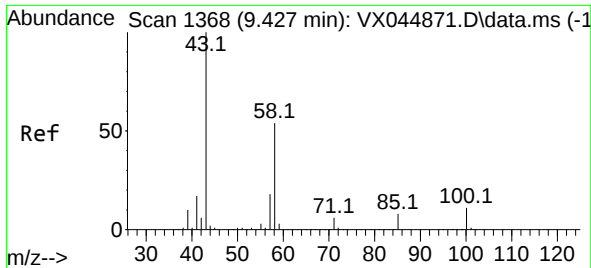
Tgt Ion: 69 Resp: 639
Ion Ratio Lower Upper
69 100
41 7307.0 55.2 82.8#
39 3234.9 30.8 46.2#



#57
1,3-Dichloropropane
Concen: 2.124 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 76 Resp: 4093
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

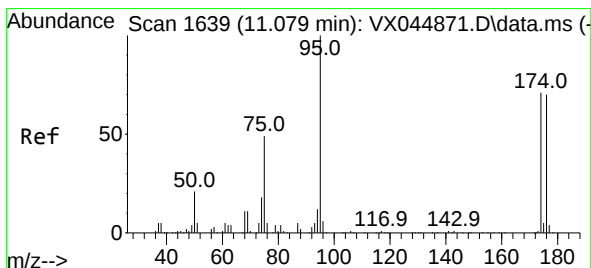
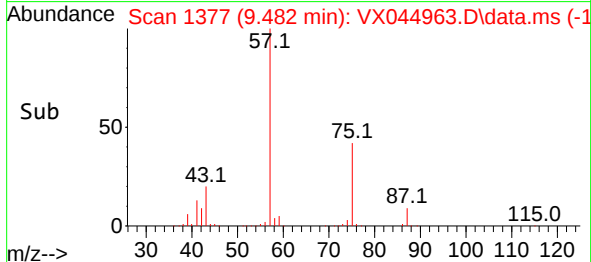
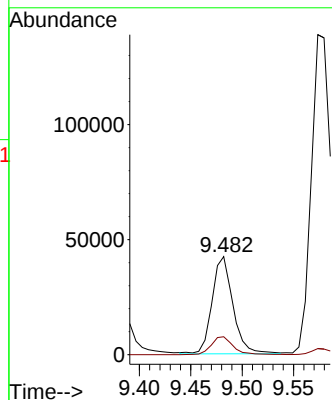
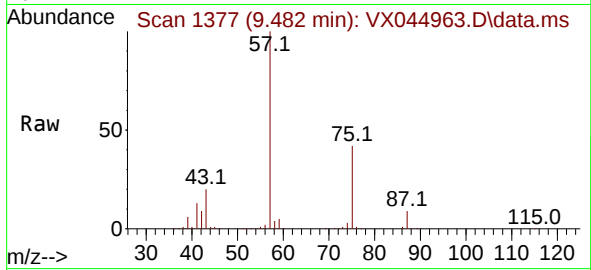




#59
2-Hexanone
Concen: 49.208 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

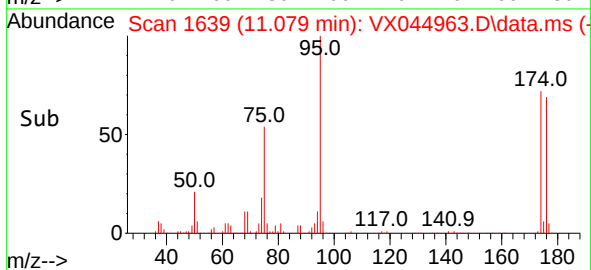
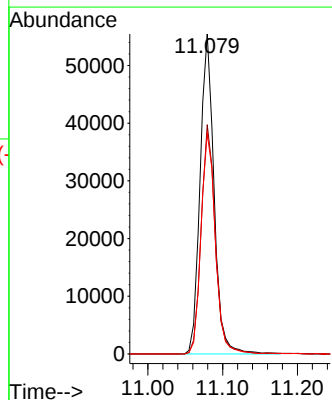
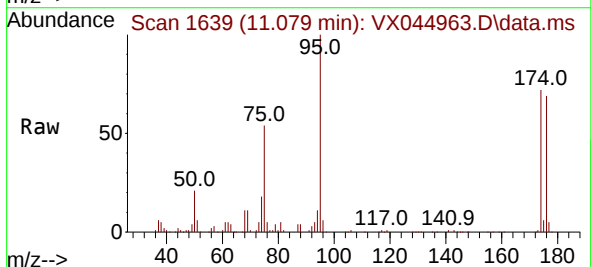
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

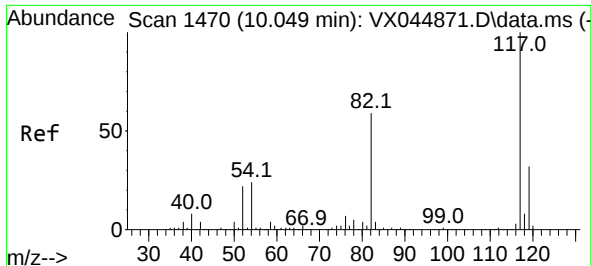
Tgt Ion: 43 Resp: 59651
Ion Ratio Lower Upper
43 100
58 19.5 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 52.892 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion: 95 Resp: 72007
Ion Ratio Lower Upper
95 100
174 72.0 0.0 142.6
176 70.8 0.0 141.6

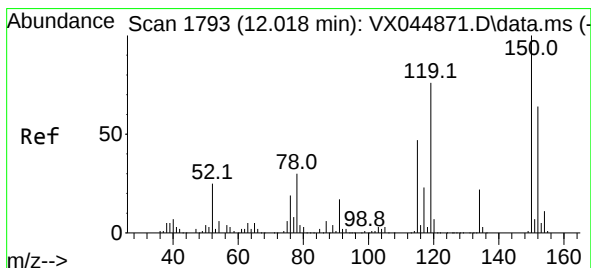
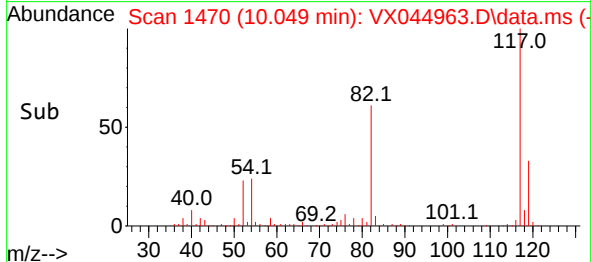
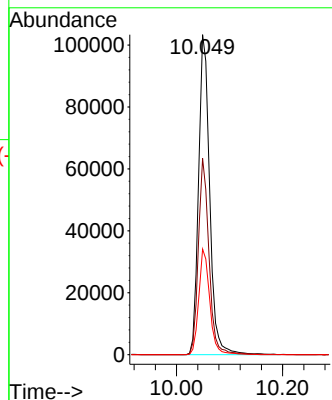
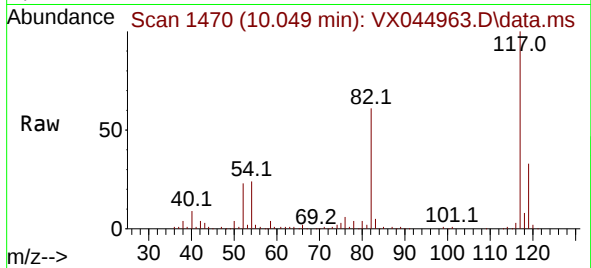




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

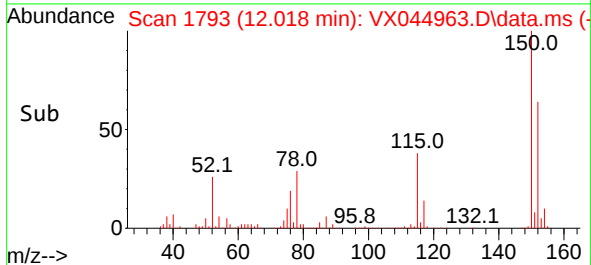
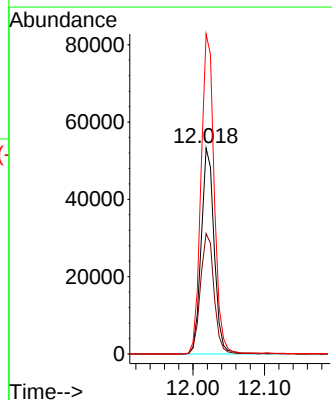
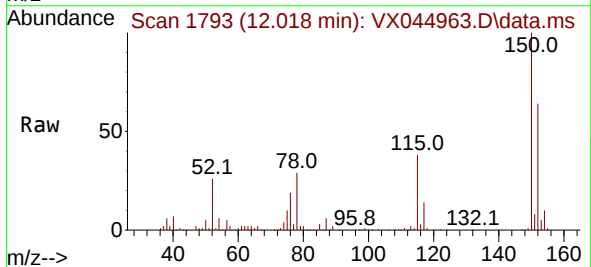
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

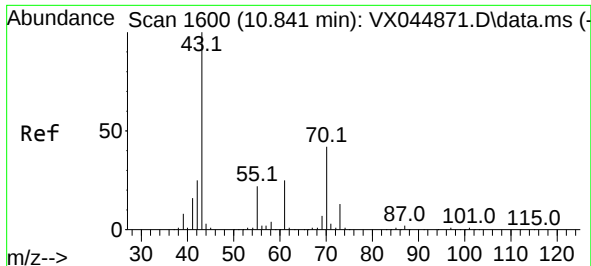
Tgt Ion:117 Resp: 150904
Ion Ratio Lower Upper
117 100
82 61.4 47.5 71.3
119 33.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion:152 Resp: 67224
Ion Ratio Lower Upper
152 100
115 61.0 43.4 130.1
150 157.6 0.0 350.4

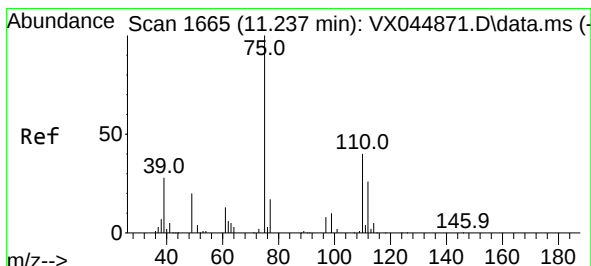
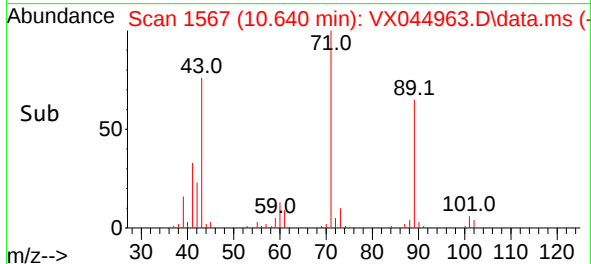
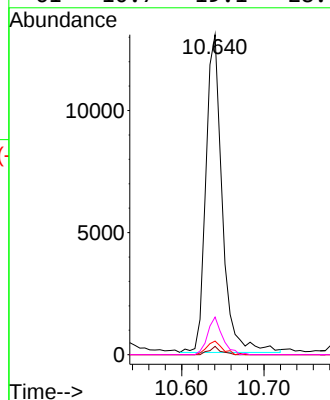
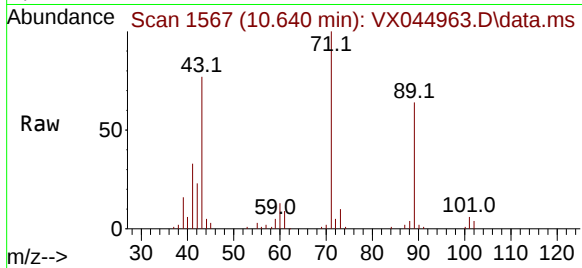




#74
N-amy1 acetate
Concen: 7.364 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.201 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

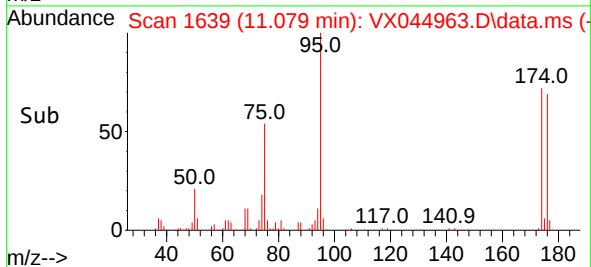
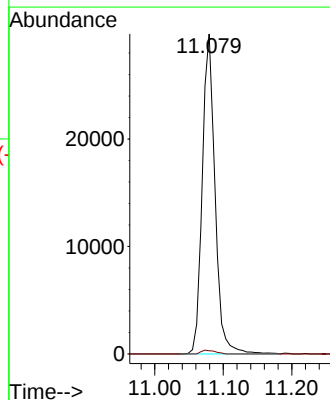
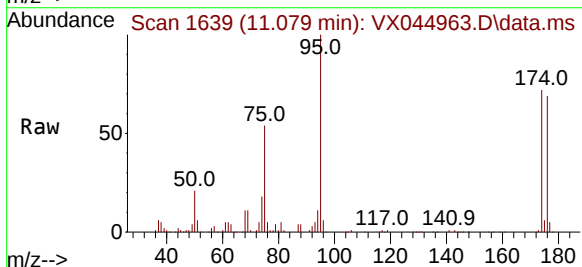
Instrument :
MSVOA_X
ClientSampleId :
SOIL-PILE

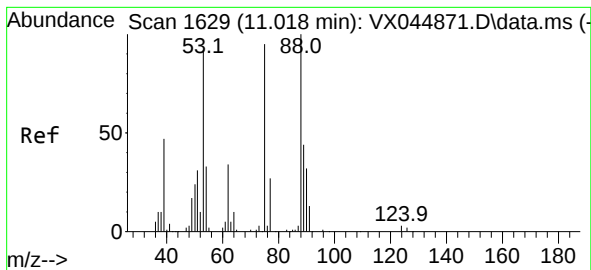
Tgt Ion:	43	Resp:	18038
Ion	Ratio	Lower	Upper
43	100		
70	1.9	33.7	50.5#
55	4.1	18.6	27.8#
61	10.7	19.1	28.7#



#76
1,2,3-Trichloropropane
Concen: 25.955 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX044963.D
Acq: 14 Feb 2025 15:52

Tgt Ion:	75	Resp:	38684
Ion	Ratio	Lower	Upper
75	100		
77	1.3	21.9	65.7#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.765 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX044963.D
 Acq: 14 Feb 2025 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-PILE

Tgt Ion: 75 Resp: 38684
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 36.6 54.8#

