

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102022\
 Data File : VX032273.D
 Acq On : 20 Oct 2022 19:10
 Operator : JC/MD
 Sample : N5183-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PIT-14-EXCAVATION-SOIL

Quant Time: Oct 21 02:16:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101922W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 19 16:51:09 2022
 Response via : Initial Calibration

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

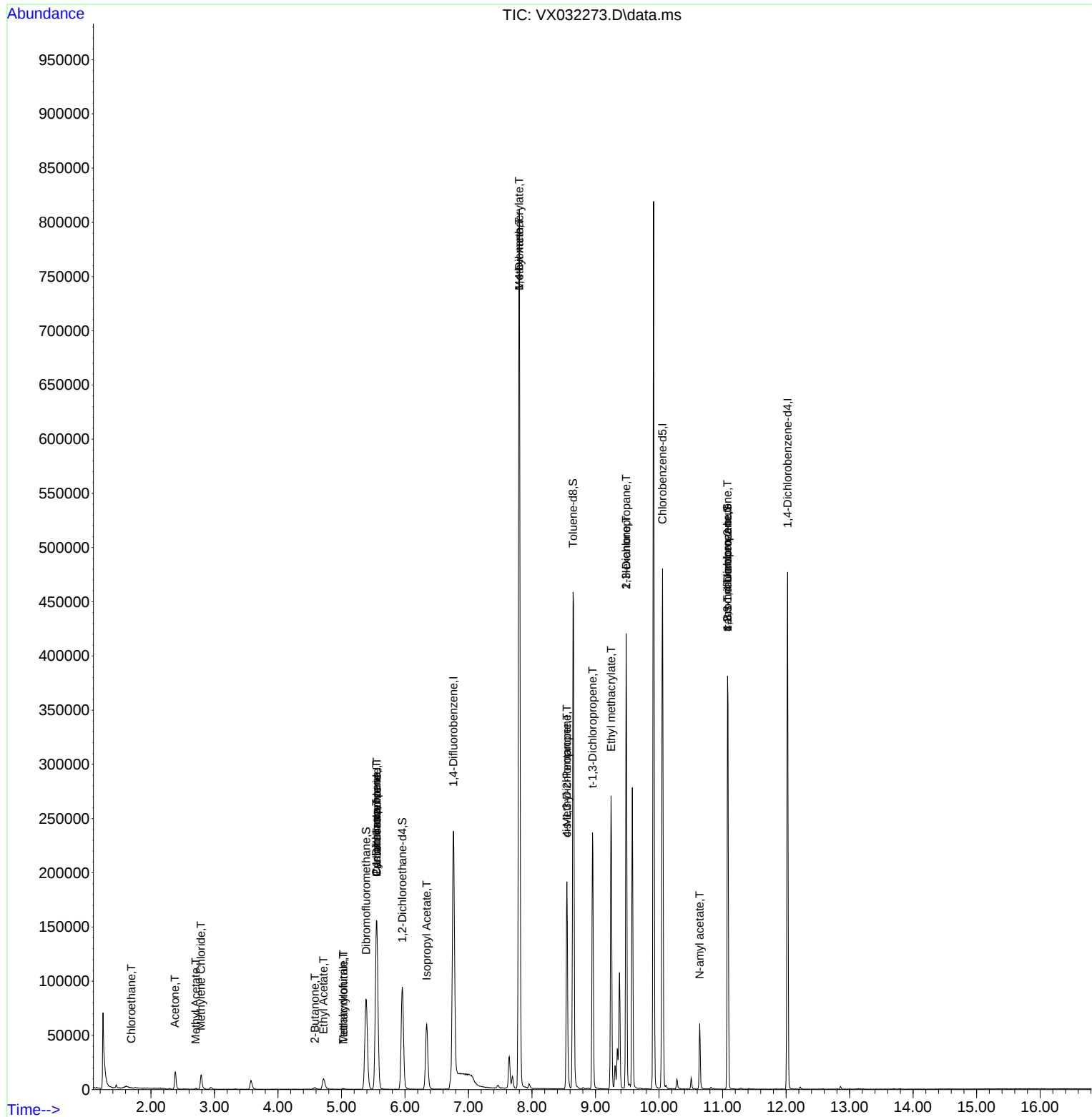
Internal Standards						
1) Pentafluorobenzene	5.556	168	147486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	229190	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	202840	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	94062	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	94375	49.188	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	98.380%		
35) Dibromofluoromethane	5.385	113	71824	45.035	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.060%		
50) Toluene-d8	8.647	98	273227	47.592	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	95.180%		
62) 4-Bromofluorobenzene	11.079	95	97925	46.581	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.160%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.246	50	2122	Below Cal	#	44
6) Chloroethane	1.691	64	71	2.000	ug/l #	41
11) Tert butyl alcohol	2.941	59	1366	Below Cal	#	74
16) Acetone	2.380	43	18562	29.812	ug/l	95
18) Methyl Acetate	2.703	43	1139	0.539	ug/l	99
20) Methylene Chloride	2.788	84	6800	4.253	ug/l	96
25) 2-Butanone	4.580	43	2419	2.488	ug/l	93
29) Tetrahydrofuran	5.026	42	445	0.709	ug/l #	51
31) Cyclohexane	5.550	56	3425	1.562	ug/l #	20
36) 1,1-Dichloropropene	5.550	75	12208	5.951	ug/l #	49
37) Ethyl Acetate	4.715	43	18457	9.189	ug/l	99
38) Carbon Tetrachloride	5.556	117	15496	7.155	ug/l #	17
41) Methacrylonitrile	5.032	41	375	0.354	ug/l #	37
43) Isopropyl Acetate	6.342	43	81274	25.779	ug/l	99
48) Methyl methacrylate	7.799	41	74587	47.438	ug/l #	42
49) 1,4-Dioxane	7.799	88	82	2.599	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	65719	33.254	ug/l #	48
53) t-1,3-Dichloropropene	8.952	75	510	2.030	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	29037	12.609	ug/l #	65
56) Ethyl methacrylate	9.244	69	544	0.241	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	3466	1.368	ug/l #	42
59) 2-Hexanone	9.482	43	49714	33.713	ug/l #	51
74) N-amyl acetate	10.640	43	15144	6.107	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	53146	28.515	ug/l #	45
81) trans-1,4-Dichloro-2-b...	11.079	75	53146	87.400	ug/l #	6

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

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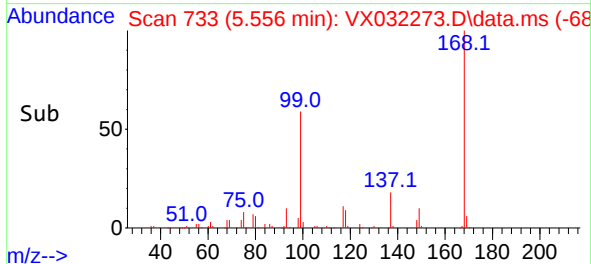
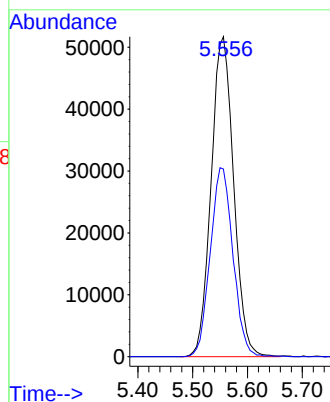
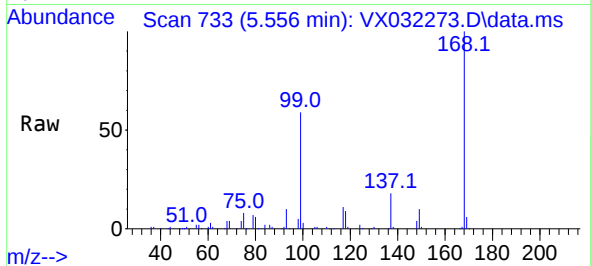




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

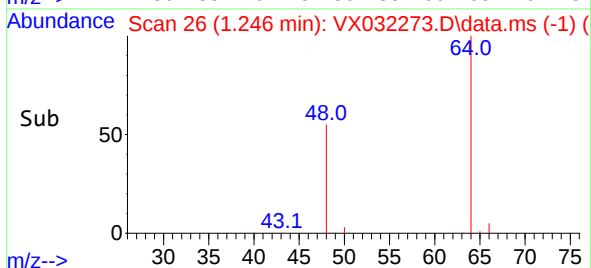
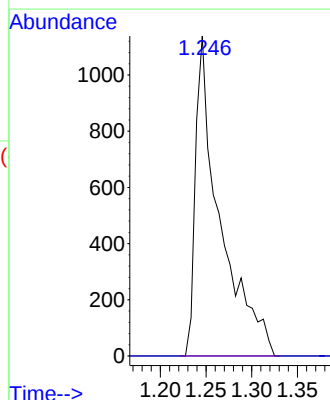
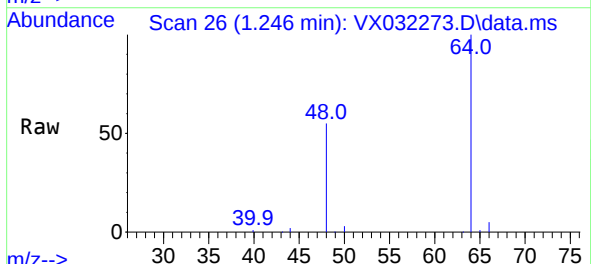
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

Tgt Ion:168 Resp: 147486
Ion Ratio Lower Upper
168 100
99 58.6 44.8 67.2

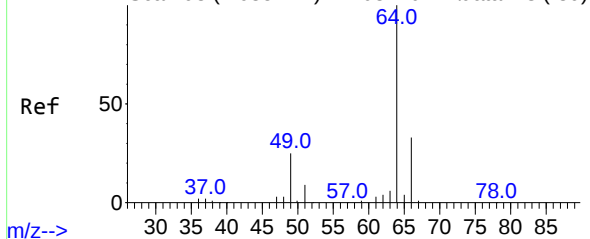


#3
Chloromethane
Concen: Below Cal
RT: 1.246 min Scan# 26
Delta R.T. -0.049 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 50 Resp: 2122
Ion Ratio Lower Upper
50 100
52 0.0 24.7 37.1#



Abundance Scan 98 (1.685 min): VX032201.D\data.ms (-89)



#6

Chloroethane

Concen: 2.000 ug/l

RT: 1.691 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Instrument :

MSVOA_X

ClientSampleId :

PIT-14-EXCAVATION-SOIL

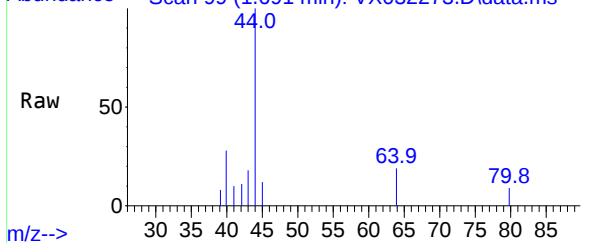
Tgt Ion: 64 Resp: 71

Ion Ratio Lower Upper

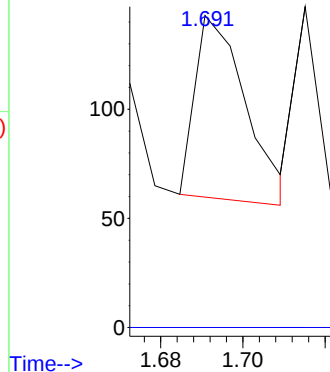
64 100

66 0.0 26.6 39.8#

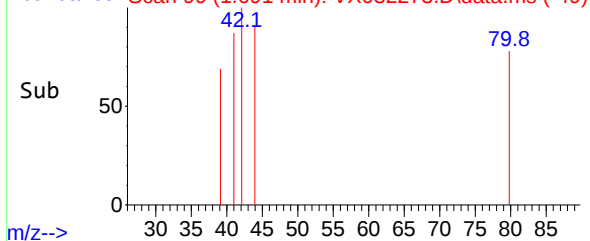
Abundance Scan 99 (1.691 min): VX032273.D\data.ms



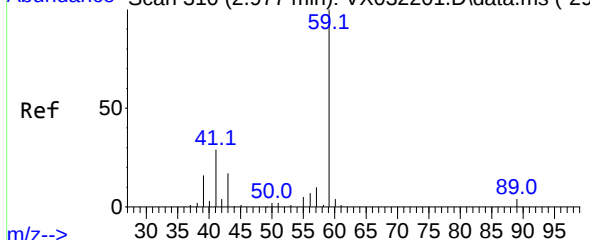
Abundance



Abundance Scan 99 (1.691 min): VX032273.D\data.ms (-49)



Abundance Scan 310 (2.977 min): VX032201.D\data.ms (-29)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.941 min Scan# 304

Delta R.T. -0.036 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

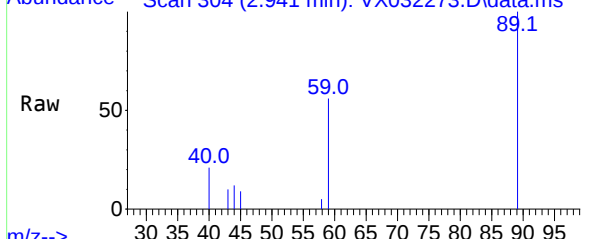
Tgt Ion: 59 Resp: 1366

Ion Ratio Lower Upper

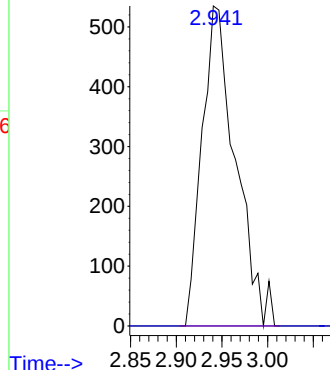
59 100

57 0.0 7.5 11.3#

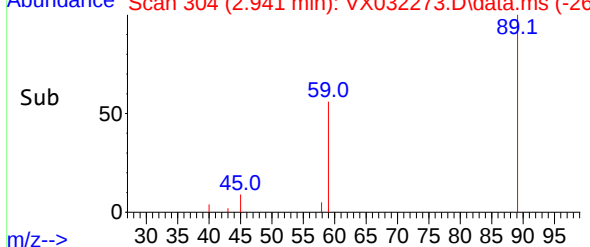
Abundance Scan 304 (2.941 min): VX032273.D\data.ms

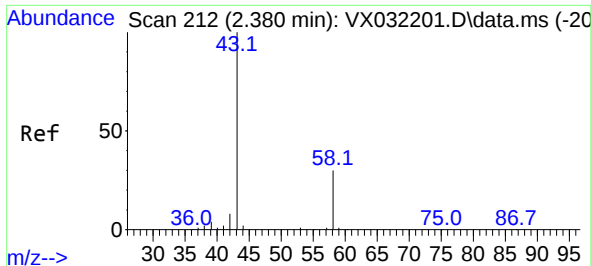


Abundance



Abundance Scan 304 (2.941 min): VX032273.D\data.ms (-26)

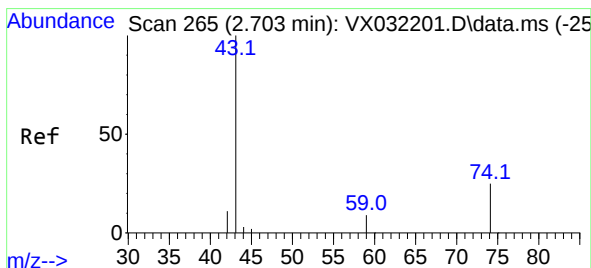
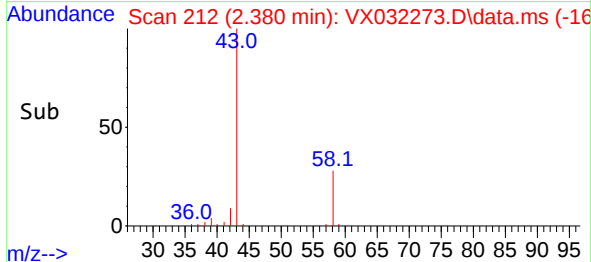
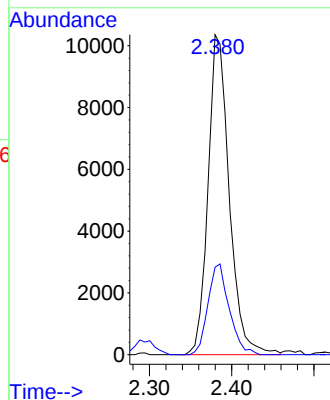
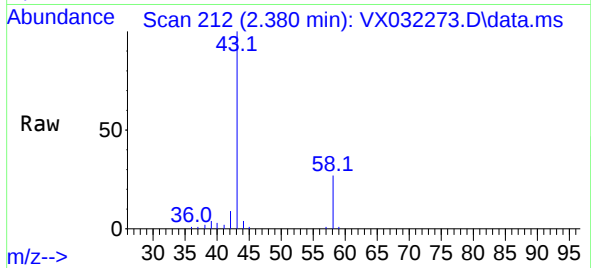




#16
Acetone
Concen: 29.812 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

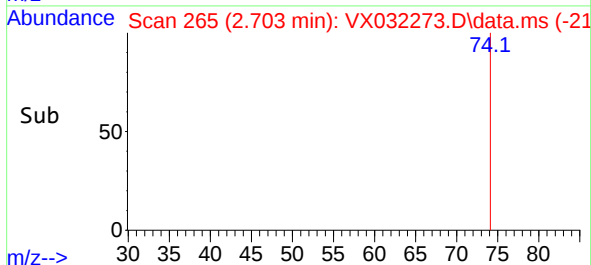
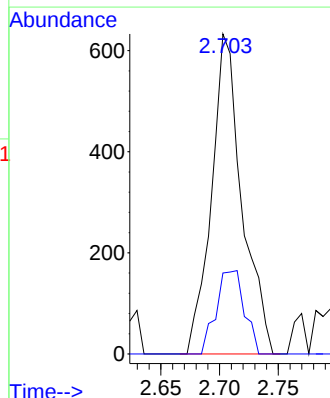
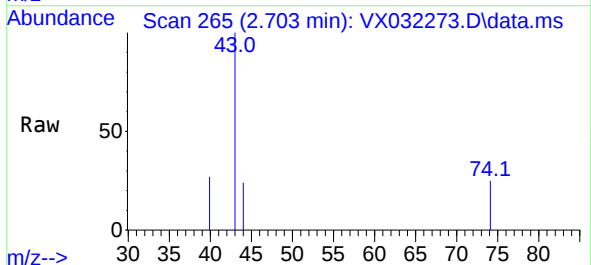
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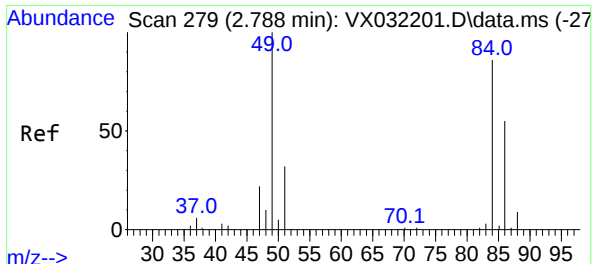
Tgt Ion: 43 Resp: 18562
Ion Ratio Lower Upper
43 100
58 27.3 24.2 36.2



#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 43 Resp: 1139
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8

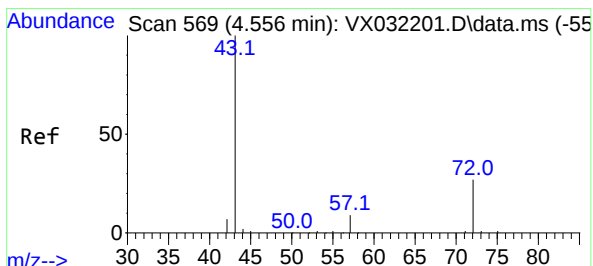
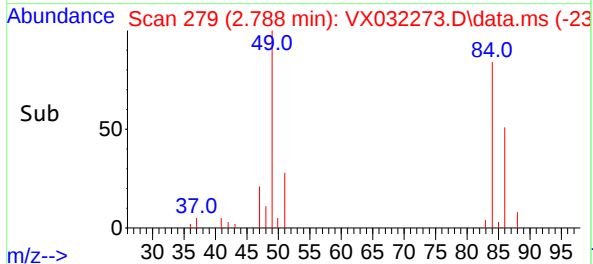
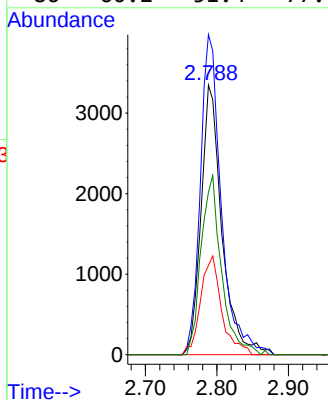
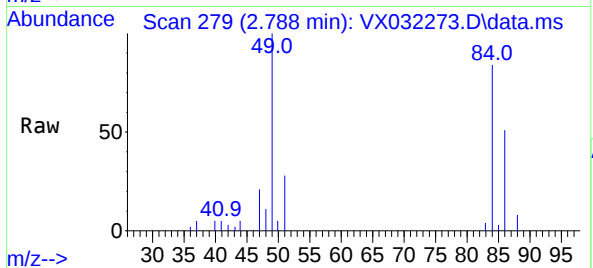




#20
Methylene Chloride
Concen: 4.253 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

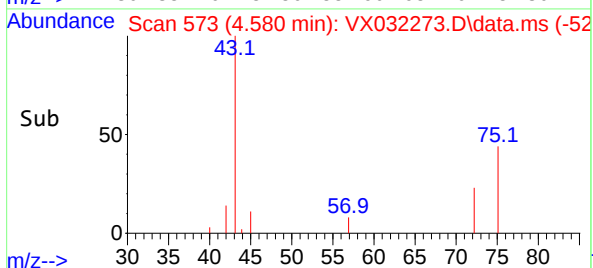
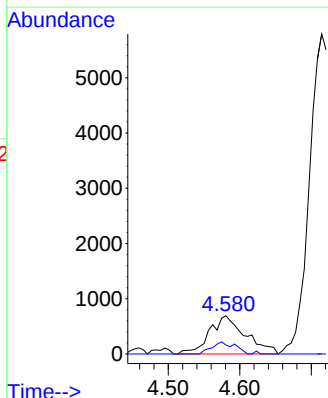
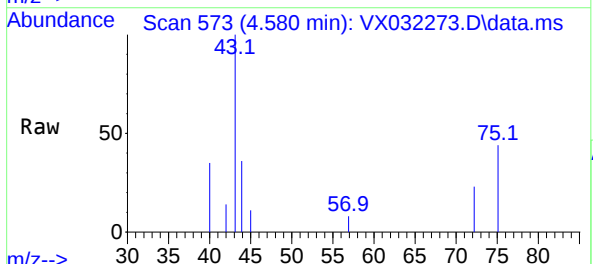
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

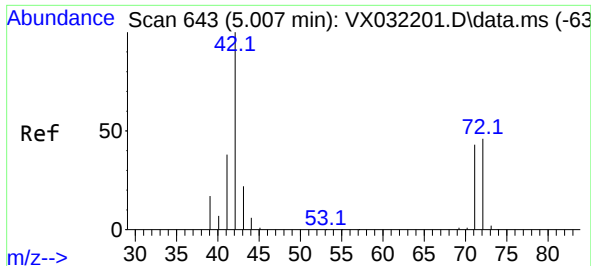
Tgt Ion:	84	Resp:	6800
Ion	Ratio	Lower	Upper
84	100		
49	118.7	92.6	139.0
51	33.0	29.2	43.8
86	60.2	51.4	77.0



#25
2-Butanone
Concen: 2.488 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.024 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion:	43	Resp:	2419
Ion	Ratio	Lower	Upper
43	100		
72	23.2	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.709 ug/l

RT: 5.026 min Scan# 64

Delta R.T. 0.019 min

Lab File: VX032273.D

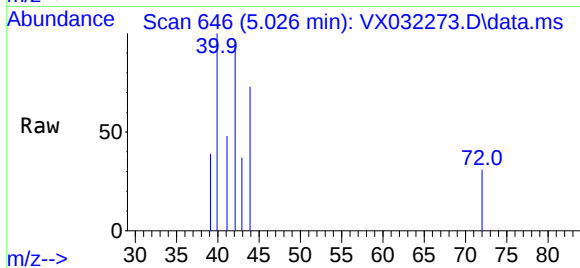
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Instrument :

MSVOA_X

ClientSampleId :

PIT-14-EXCAVATION-SOIL



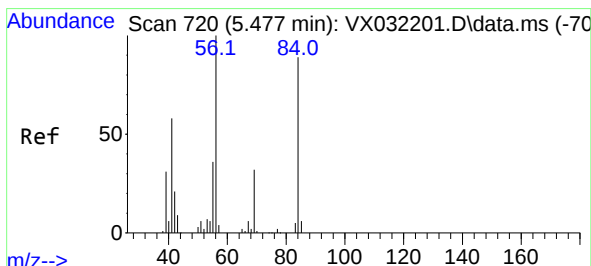
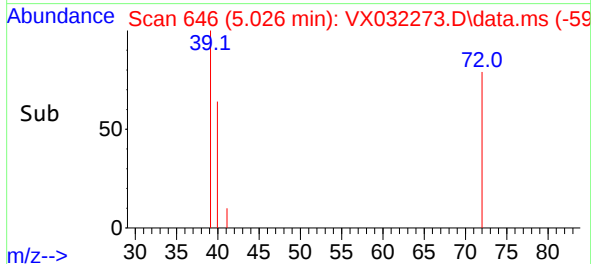
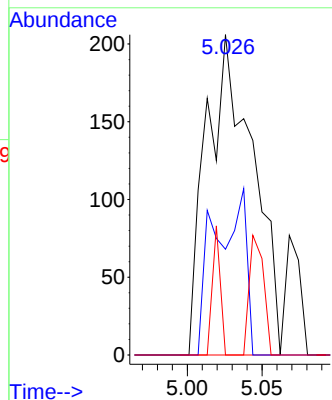
Tgt Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 19.3 37.5 56.3#

71 6.7 34.7 52.1#



#31

Cyclohexane

Concen: 1.562 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.073 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

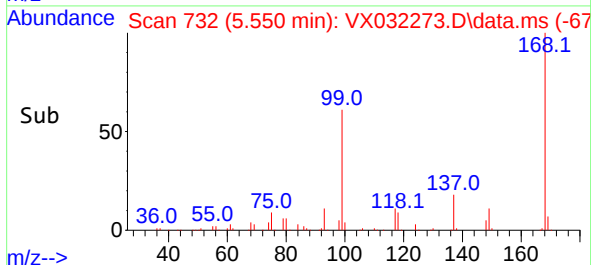
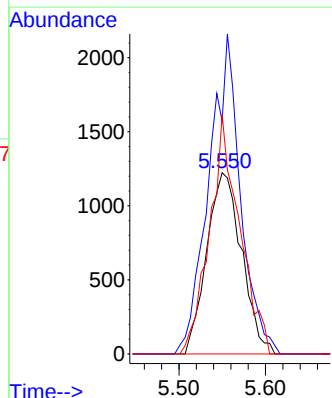
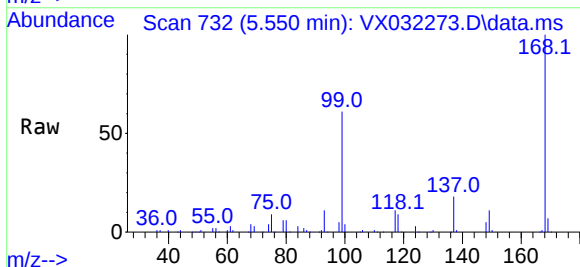
Tgt Ion: 56 Resp: 3425

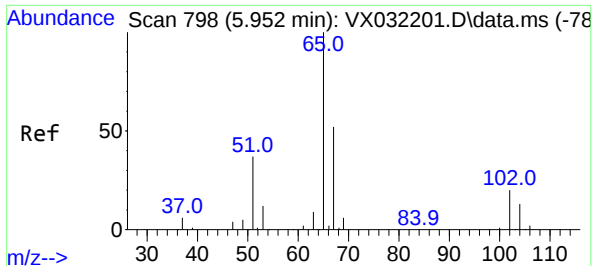
Ion Ratio Lower Upper

56 100

69 128.3 25.4 38.0#

84 132.1 71.2 106.8#

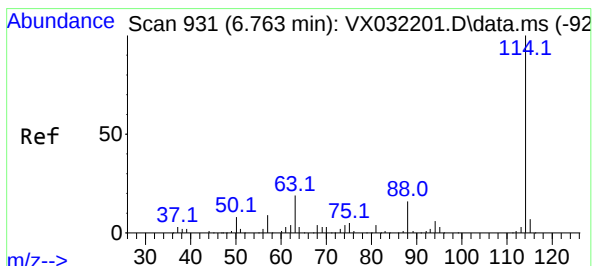
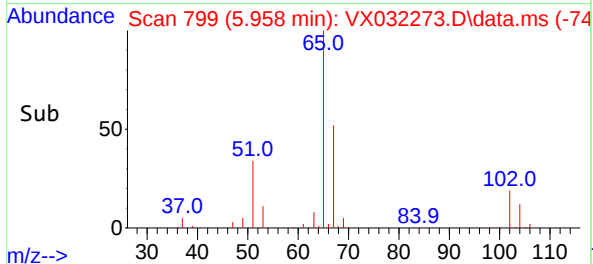
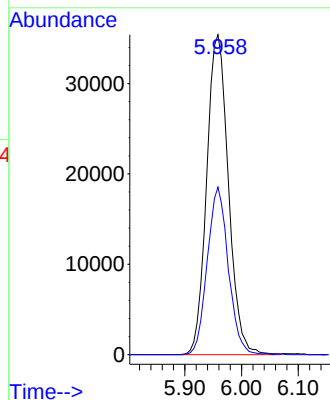
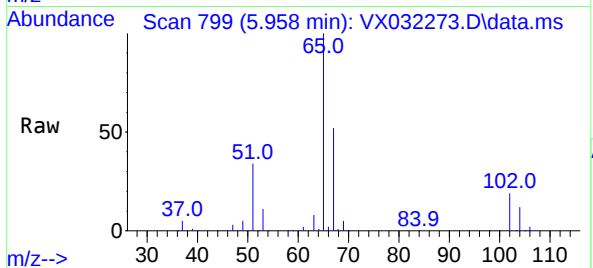




#33
1,2-Dichloroethane-d4
Concen: 49.188 ug/l
RT: 5.958 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

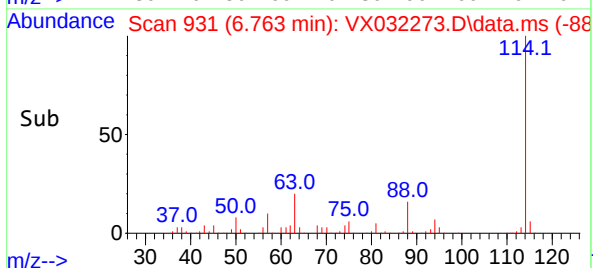
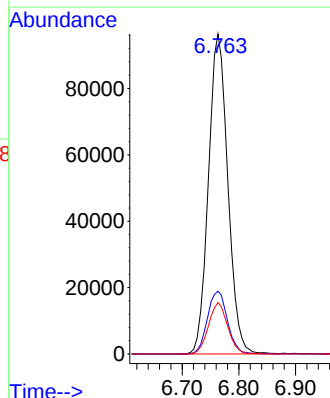
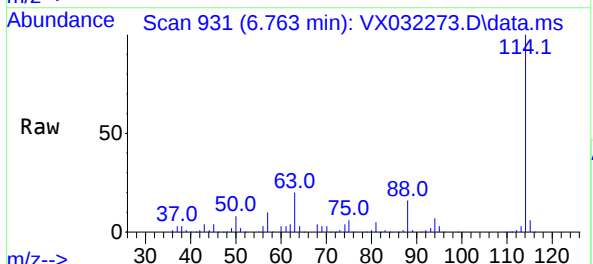
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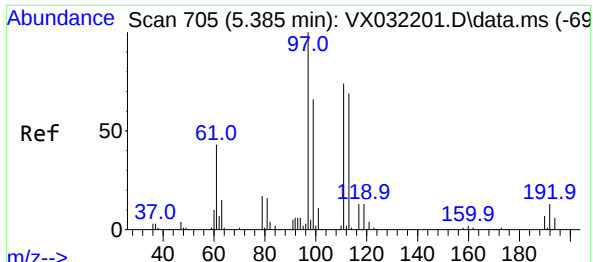
Tgt Ion: 65 Resp: 94375
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 114 Resp: 229190
Ion Ratio Lower Upper
114 100
63 19.6 0.0 38.6
88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 45.035 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Instrument :

MSVOA_X

ClientSampleId :

PIT-14-EXCAVATION-SOIL

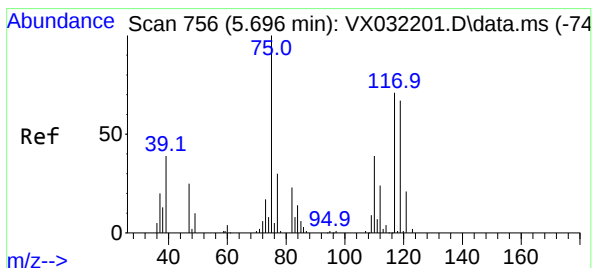
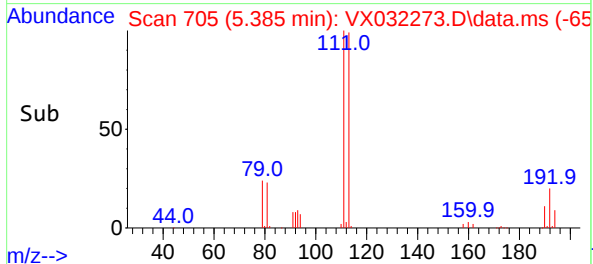
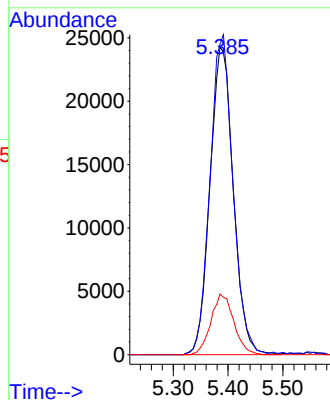
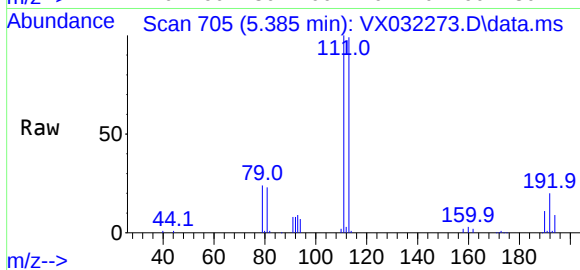
Tgt Ion:113 Resp: 71824

Ion Ratio Lower Upper

113 100

111 101.8 82.8 124.2

192 19.3 15.5 23.3



#36

1,1-Dichloropropene

Concen: 5.951 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

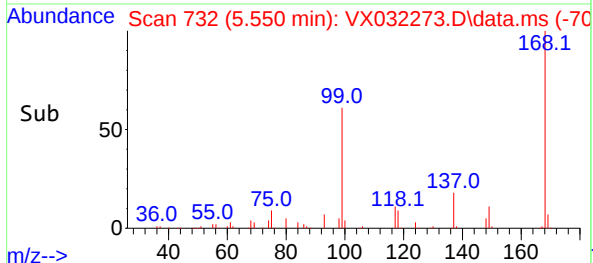
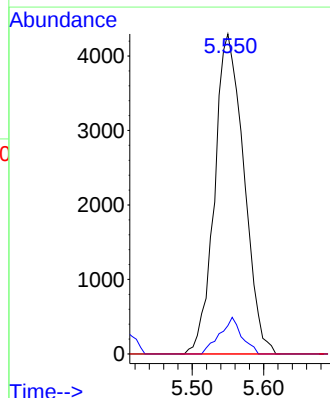
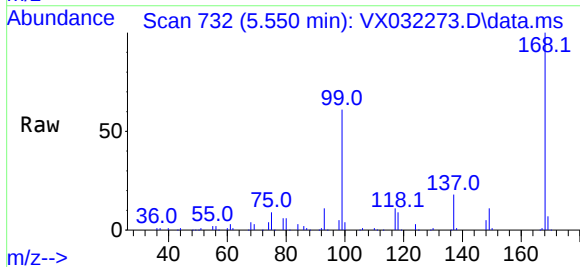
Tgt Ion: 75 Resp: 12208

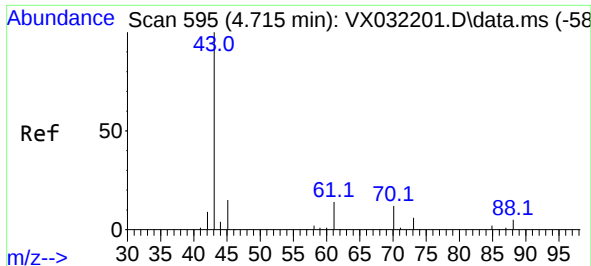
Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 9.189 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Instrument :

MSVOA_X

ClientSampleId :

PIT-14-EXCAVATION-SOIL

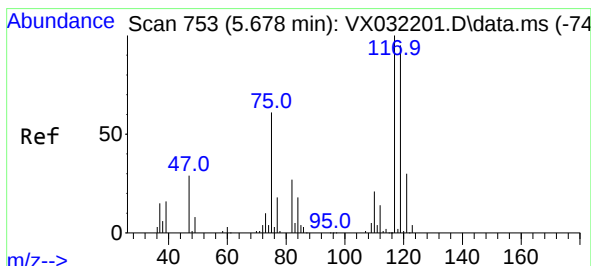
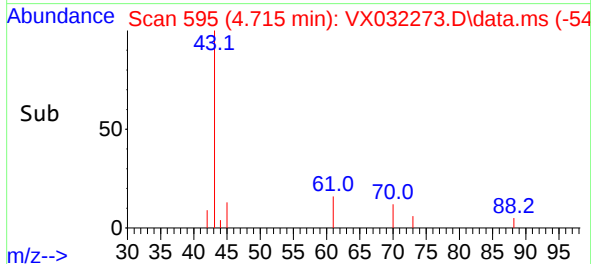
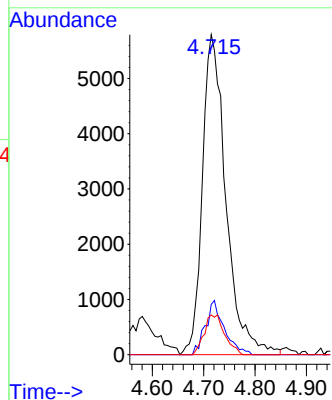
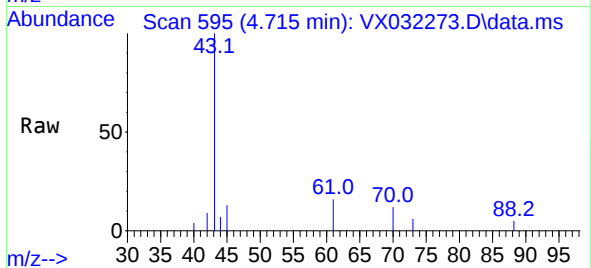
Tgt Ion: 43 Resp: 18457

Ion Ratio Lower Upper

43 100

61 13.6 11.4 17.2

70 10.8 8.8 13.2



#38

Carbon Tetrachloride

Concen: 7.155 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.122 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

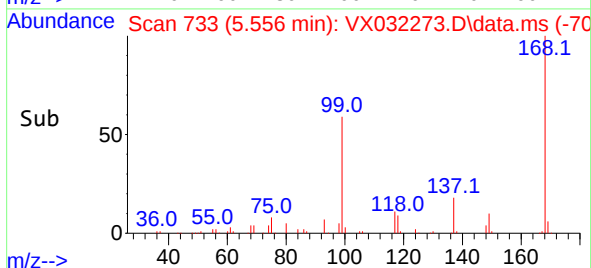
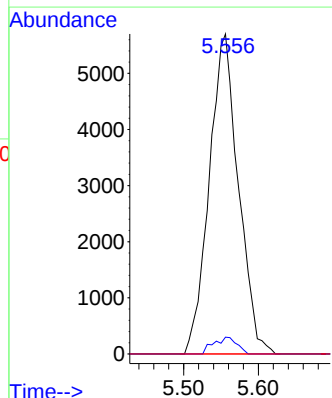
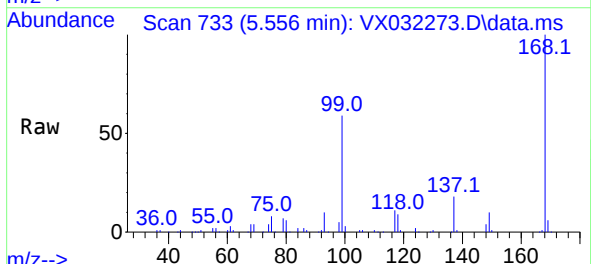
Tgt Ion: 117 Resp: 15496

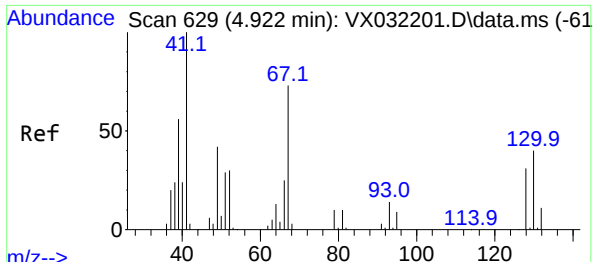
Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.0#

121 0.0 23.9 35.9#

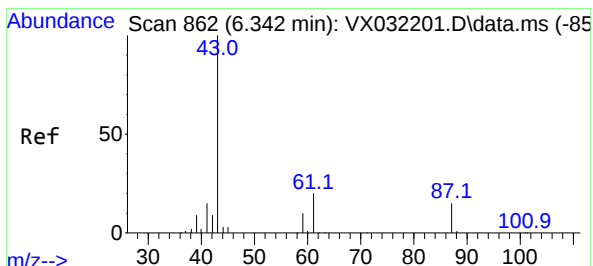
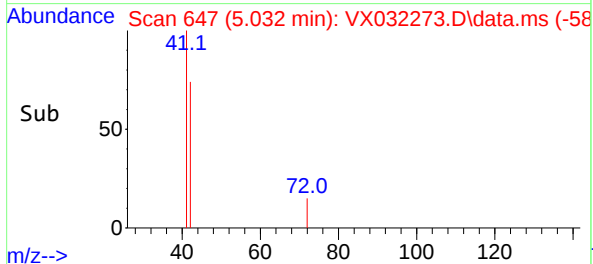
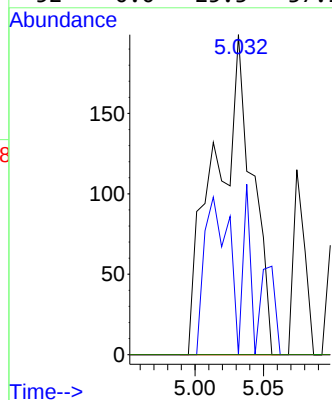
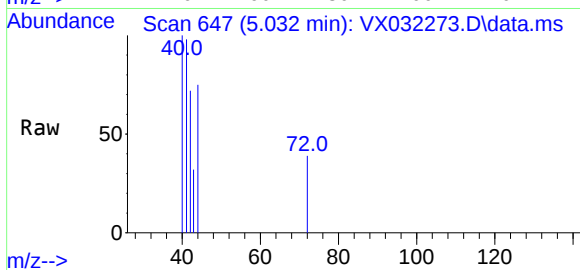




#41
Methacrylonitrile
Concen: 0.354 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.110 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

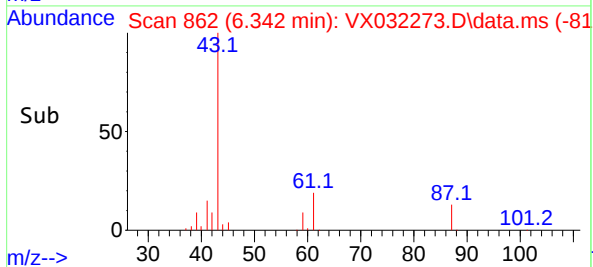
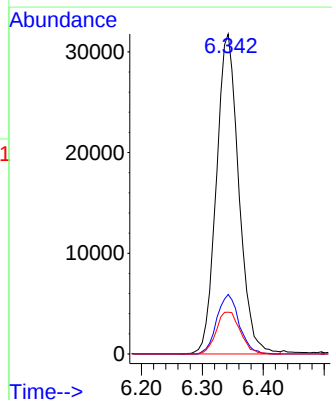
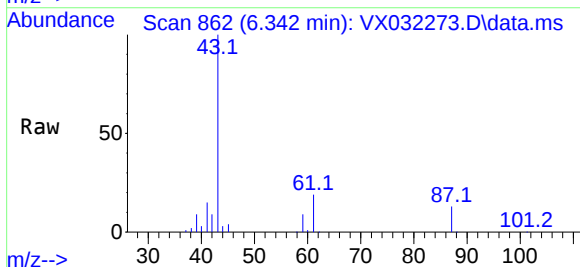
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

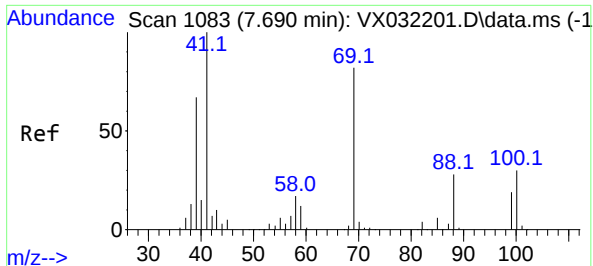
Tgt Ion: 41 Resp: 375
Ion Ratio Lower Upper
41 100
39 32.0 45.5 68.3#
67 0.0 59.4 89.2#
52 0.0 25.3 37.9#



#43
Isopropyl Acetate
Concen: 25.779 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 43 Resp: 81274
Ion Ratio Lower Upper
43 100
61 18.5 15.5 23.3
87 14.0 11.0 16.6

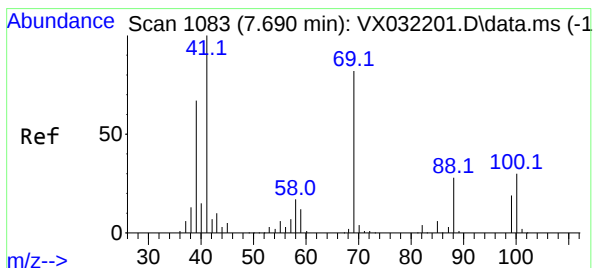
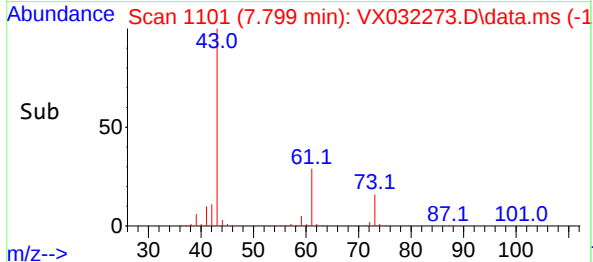
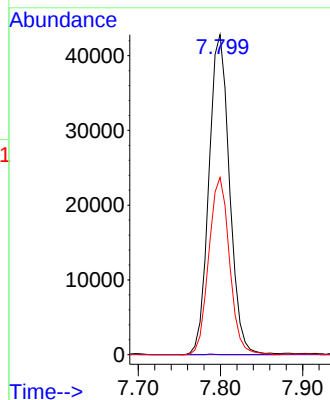
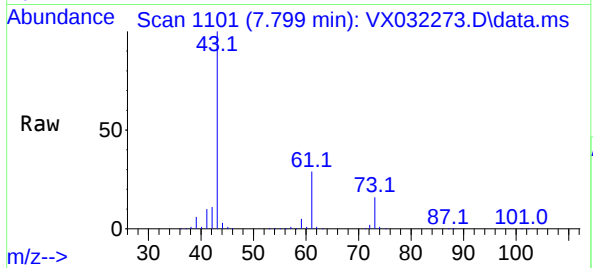




#48
Methyl methacrylate
Concen: 47.438 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.109 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

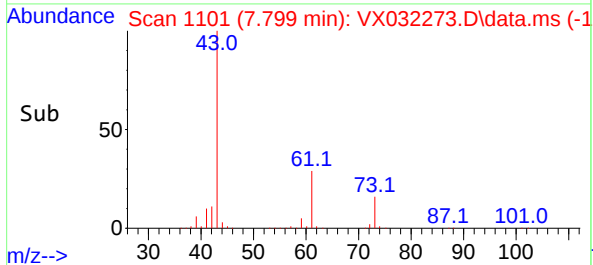
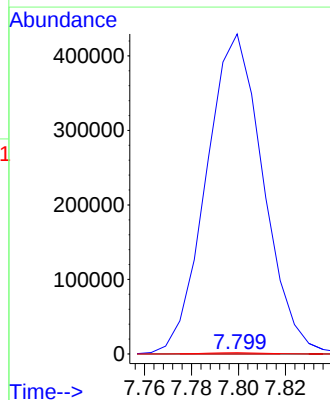
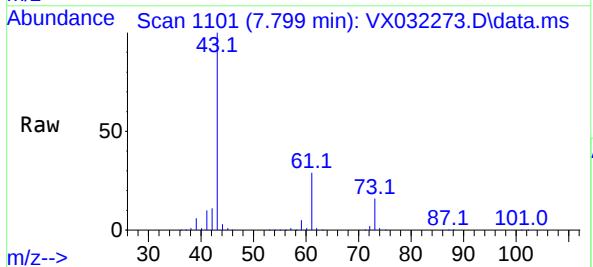
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

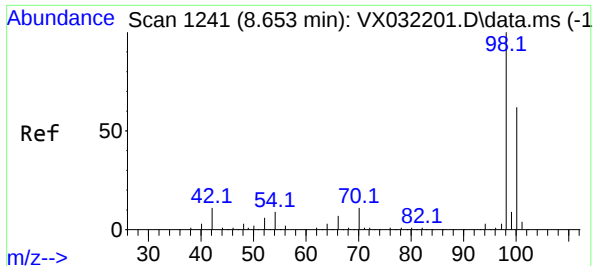
Tgt Ion: 41 Resp: 74587
Ion Ratio Lower Upper
41 100
69 0.1 67.3 100.9#
39 55.5 53.8 80.8



#49
1,4-Dioxane
Concen: 2.599 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.109 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 88 Resp: 82
Ion Ratio Lower Upper
88 100
43 889542.7 26.9 40.3#
58 3684.1 50.7 76.1#

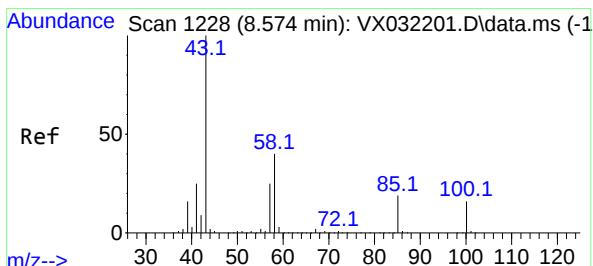
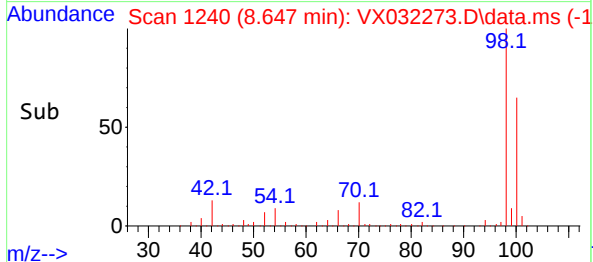
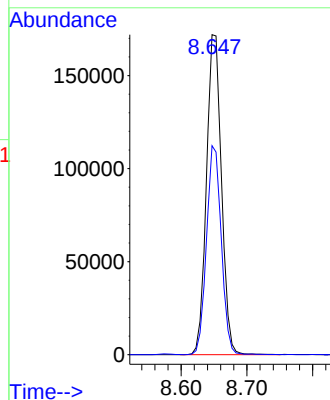
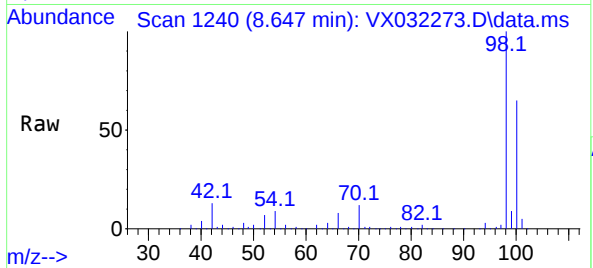




#50
Toluene-d8
Concen: 47.592 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

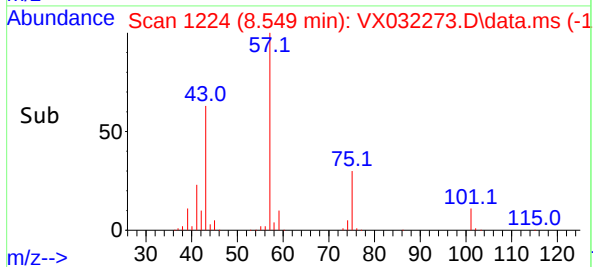
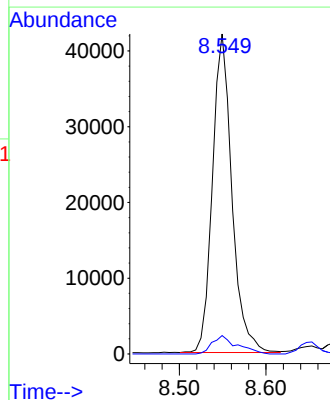
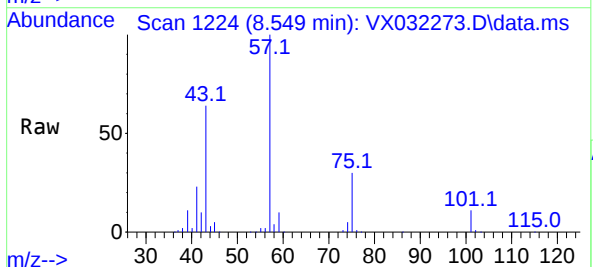
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

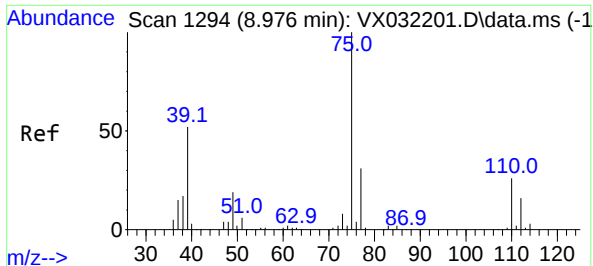
Tgt Ion: 98 Resp: 273227
Ion Ratio Lower Upper
98 100
100 64.3 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 33.254 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.025 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion: 43 Resp: 65719
Ion Ratio Lower Upper
43 100
58 7.4 31.0 46.4#





#53

t-1,3-Dichloropropene

Concen: 2.030 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Instrument :

MSVOA_X

ClientSampleId :

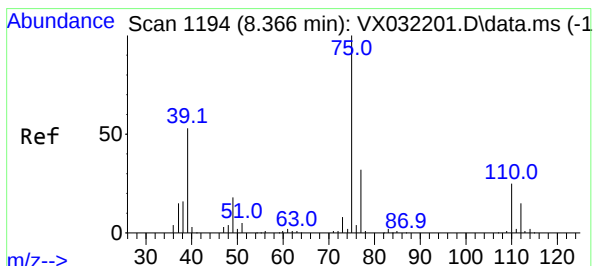
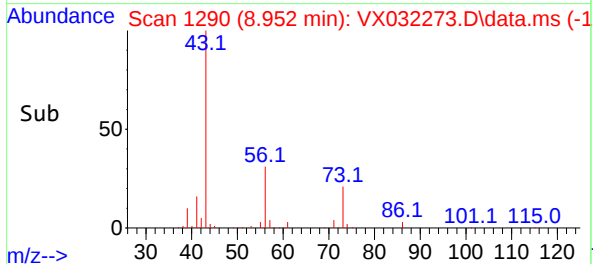
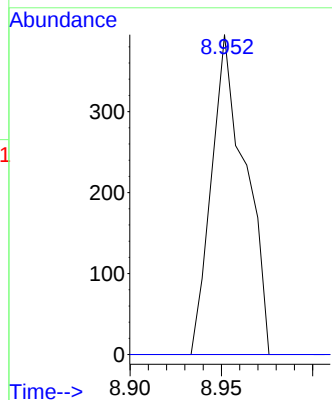
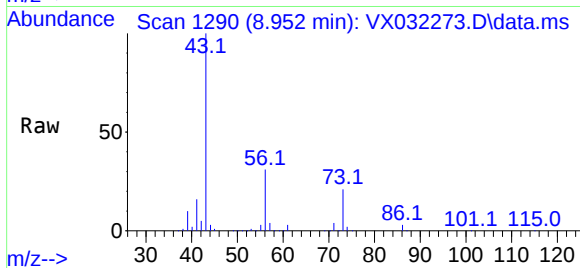
PIT-14-EXCAVATION-SOIL

Tgt Ion: 75 Resp: 510

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#



#54

cis-1,3-Dichloropropene

Concen: 12.609 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

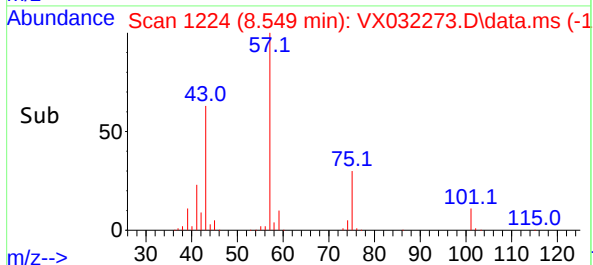
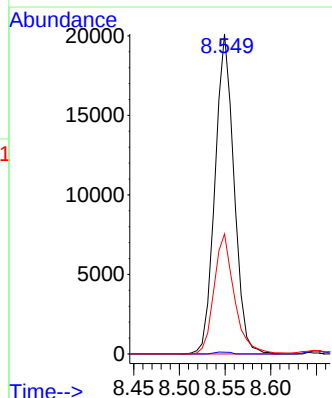
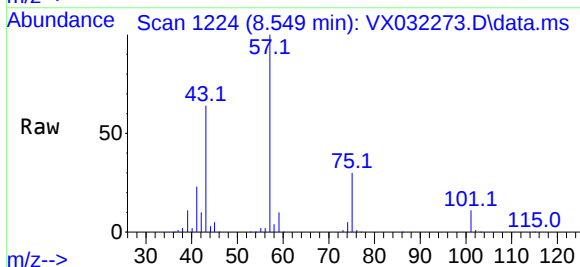
Tgt Ion: 75 Resp: 29037

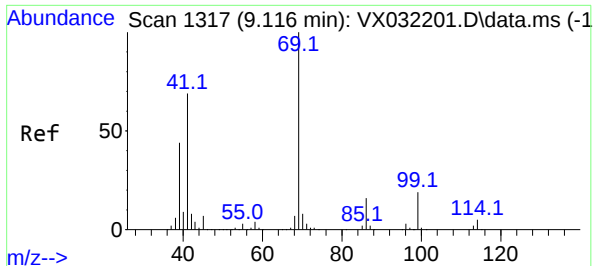
Ion Ratio Lower Upper

75 100

77 0.6 25.3 37.9#

39 37.5 42.4 63.6#





#56

Ethyl methacrylate

Concen: 0.241 ug/l

RT: 9.244 min Scan# 11

Delta R.T. 0.128 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

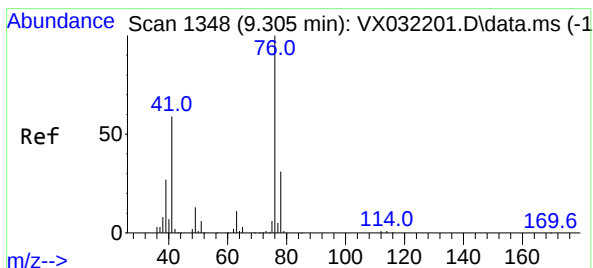
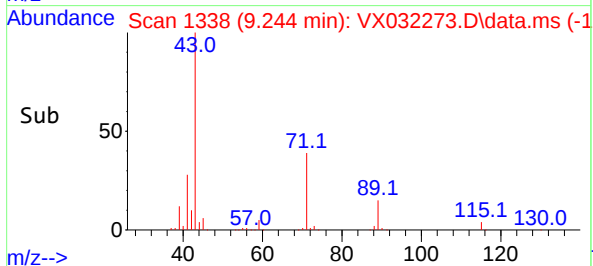
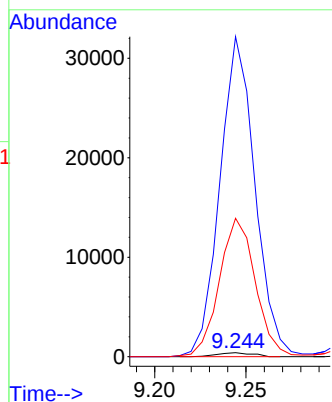
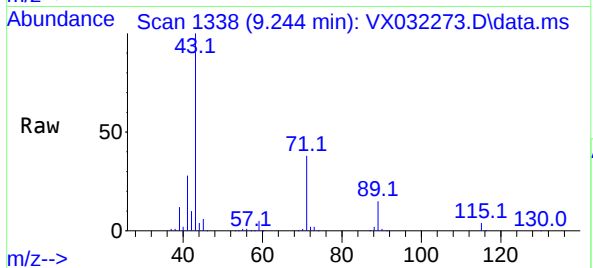
Instrument :

MSVOA_X

ClientSampleId :

PIT-14-EXCAVATION-SOIL

Tgt Ion:	69	Resp:	544
Ion	Ratio	Lower	Upper
69	100		
41	7934.7	54.5	81.7#
39	3518.2	35.7	53.5#



#57

1,3-Dichloropropane

Concen: 1.368 ug/l

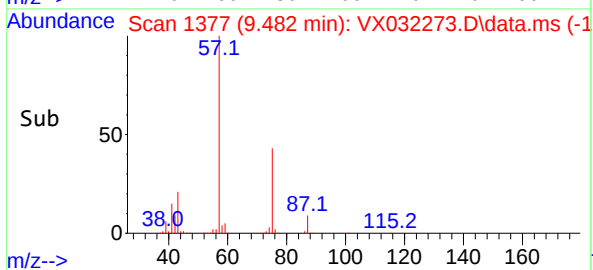
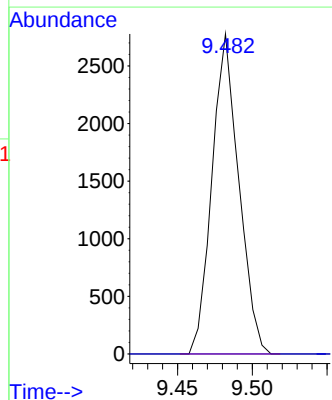
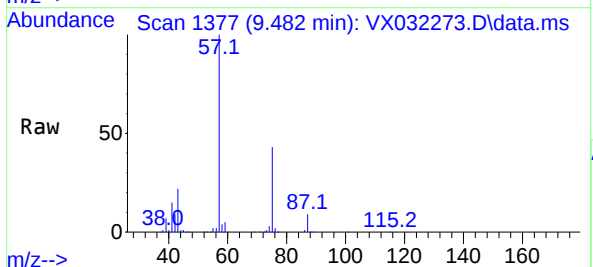
RT: 9.482 min Scan# 1377

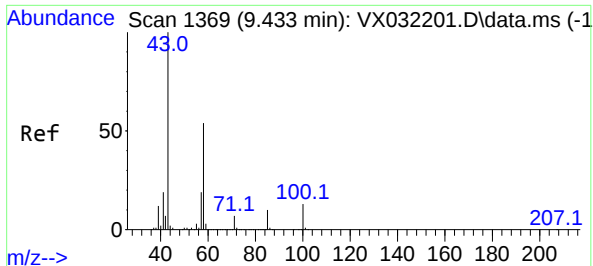
Delta R.T. 0.177 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Tgt Ion:	76	Resp:	3466
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.0	39.0#





#59

2-Hexanone

Concen: 33.713 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.049 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

Instrument :

MSVOA_X

ClientSampleId :

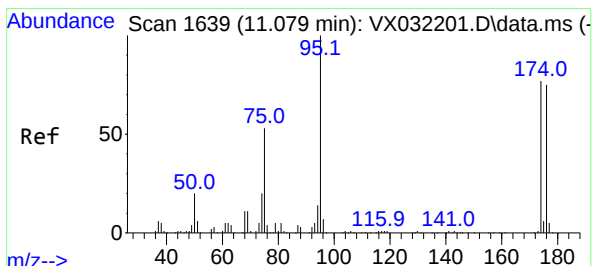
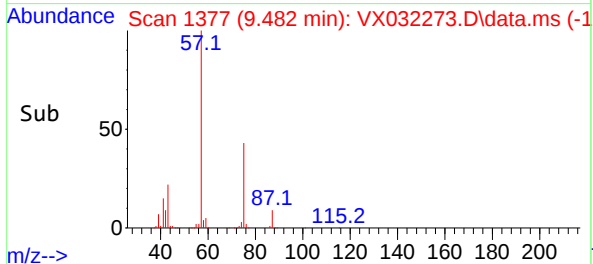
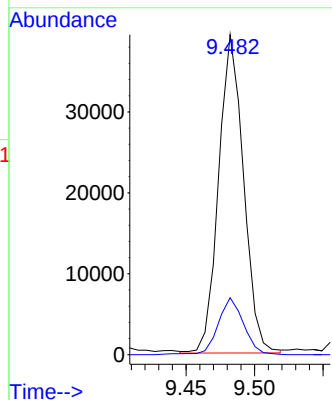
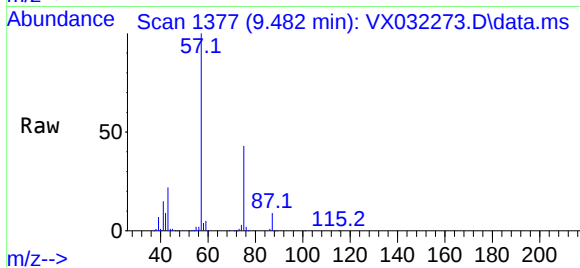
PIT-14-EXCAVATION-SOIL

Tgt Ion: 43 Resp: 49714

Ion Ratio Lower Upper

43 100

58 18.4 26.7 80.1#



#62

4-Bromofluorobenzene

Concen: 46.581 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX032273.D

Acq: 20 Oct 2022 19:10

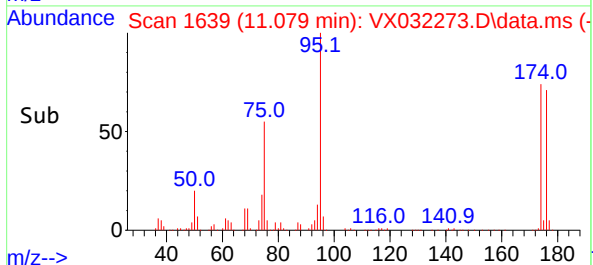
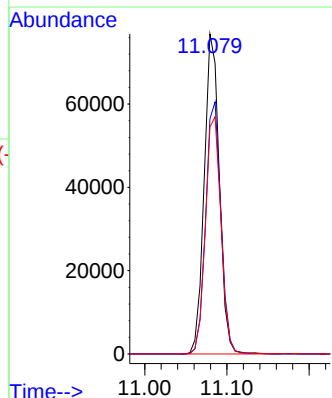
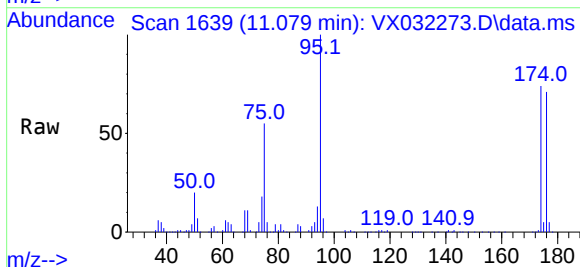
Tgt Ion: 95 Resp: 97925

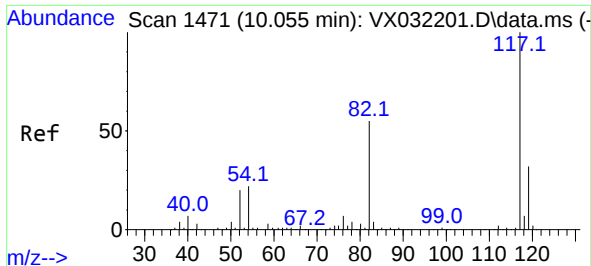
Ion Ratio Lower Upper

95 100

174 80.0 0.0 166.8

176 76.4 0.0 161.4

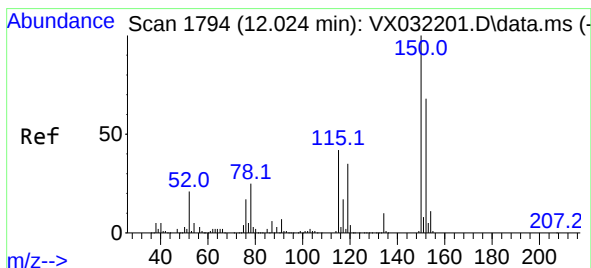
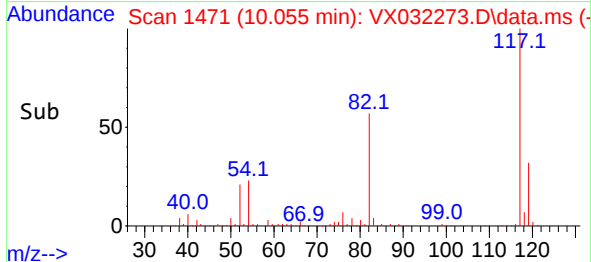
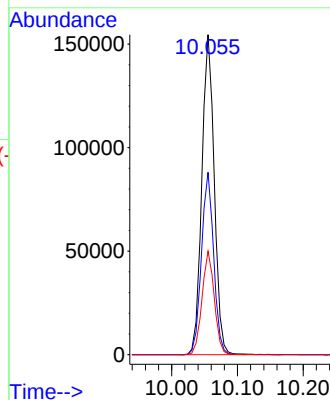
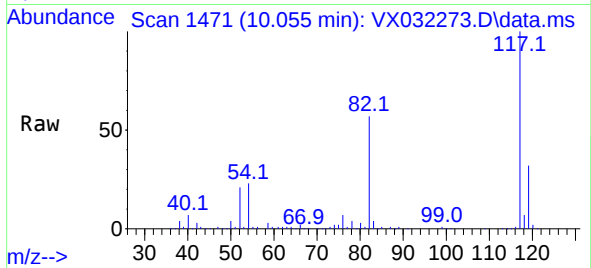




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

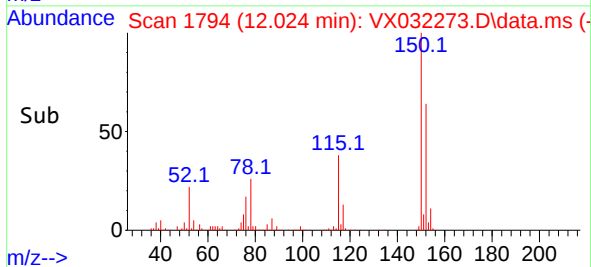
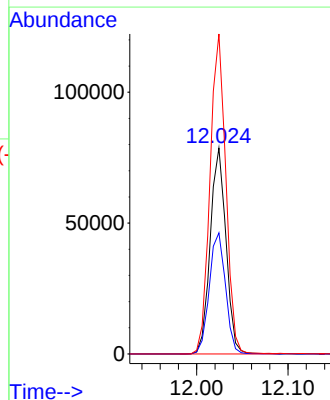
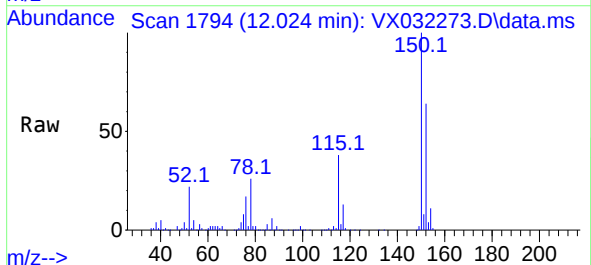
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

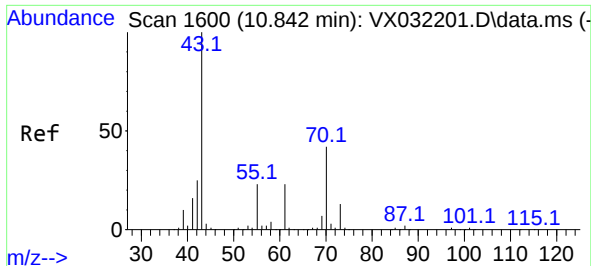
Tgt Ion:117 Resp: 202840
Ion Ratio Lower Upper
117 100
82 57.0 44.2 66.4
119 32.4 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

Tgt Ion:152 Resp: 94062
Ion Ratio Lower Upper
152 100
115 60.6 43.1 129.4
150 155.9 0.0 348.6

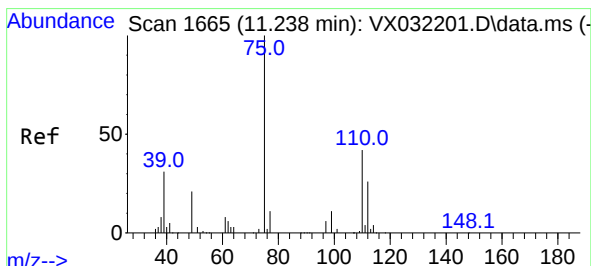
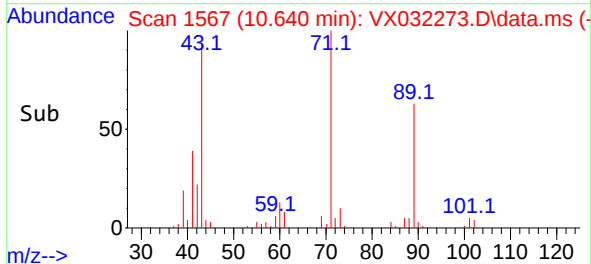
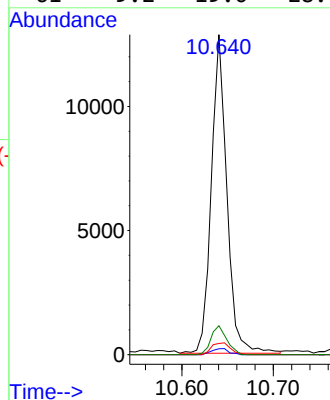
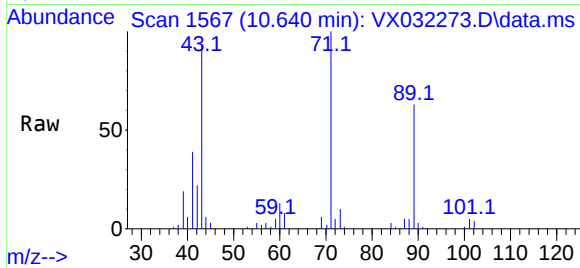




#74
N-amy1 acetate
Concen: 6.107 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.202 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

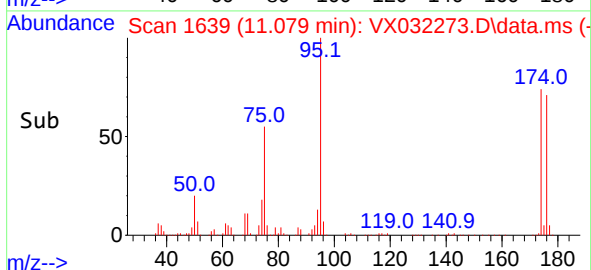
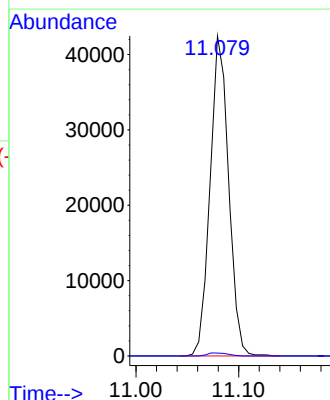
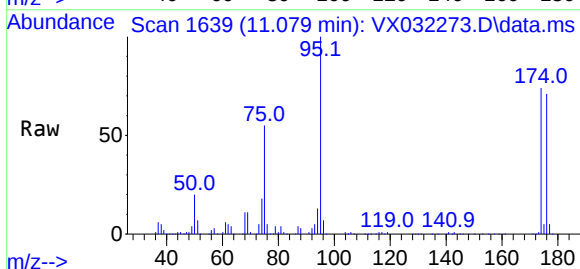
Instrument :
MSVOA_X
ClientSampleId :
PIT-14-EXCAVATION-SOIL

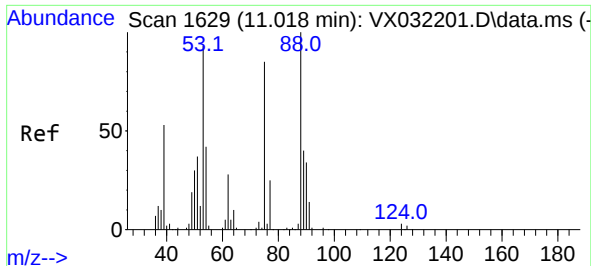
Tgt Ion:	43	Resp:	15144
Ion	Ratio	Lower	Upper
43	100		
70	2.1	33.9	50.9#
55	4.5	19.1	28.7#
61	9.2	19.0	28.4#



#76
1,2,3-Trichloropropane
Concen: 28.515 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX032273.D
Acq: 20 Oct 2022 19:10

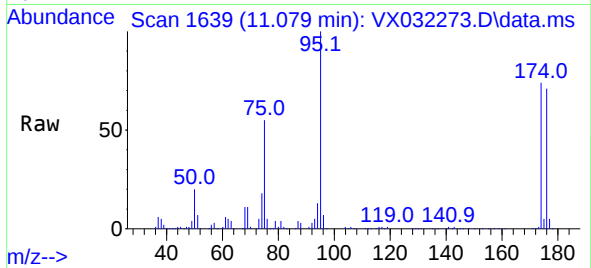
Tgt Ion:	75	Resp:	53146
Ion	Ratio	Lower	Upper
75	100		
77	1.0	16.0	47.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.400 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX032273.D
 Acq: 20 Oct 2022 19:10

Instrument :
 MSVOA_X
 ClientSampleId :
 PIT-14-EXCAVATION-SOIL



Tgt Ion: 75 Resp: 53146
 Ion Ratio Lower Upper
 75 100
 53 0.0 87.8 131.8#
 89 0.0 37.8 56.8#

