

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110422\
 Data File : VN075179.D
 Acq On : 04 Nov 2022 16:57
 Operator : JC\MD
 Sample : N5452-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

Quant Time: Nov 05 07:01:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

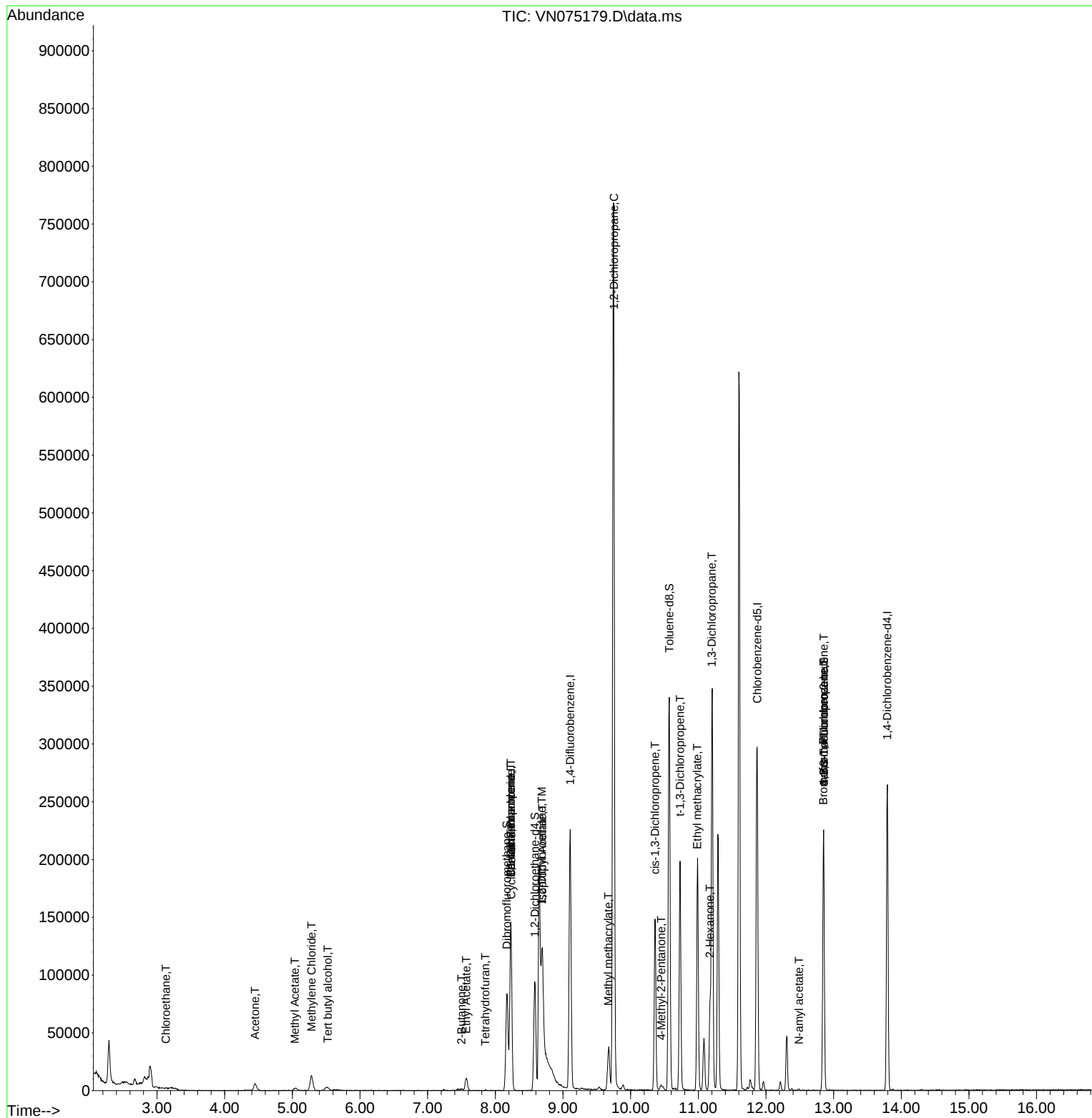
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	99205	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	194707	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	178798	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	68583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	77145	57.714	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.420%	
35) Dibromofluoromethane	8.171	113	60216	52.681	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.360%	
50) Toluene-d8	10.571	98	239074	53.911	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.820%	
62) 4-Bromofluorobenzene	12.853	95	76968	49.408	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.820%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.912	94	67	Below Cal	#	5
6) Chloroethane	3.130	64	328	0.234	ug/l #	45
11) Tert butyl alcohol	5.524	59	1195	3.834	ug/l #	72
16) Acetone	4.447	43	11733	20.730	ug/l	94
18) Methyl Acetate	5.036	43	4655	2.518	ug/l #	79
20) Methylene Chloride	5.283	84	10548	8.359	ug/l	87
25) 2-Butanone	7.500	43	2487	2.794	ug/l	99
29) Tetrahydrofuran	7.853	42	122	0.212	ug/l #	59
31) Cyclohexane	8.235	56	2471	1.243	ug/l #	57
36) 1,1-Dichloropropene	8.230	75	8397	4.745	ug/l #	49
37) Ethyl Acetate	7.571	43	16365	8.433	ug/l	98
38) Carbon Tetrachloride	8.230	117	11396	5.854	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	496	0.252	ug/l #	75
43) Isopropyl Acetate	8.694	43	142252	47.255	ug/l #	77
45) 1,2-Dichloropropane	9.753	63	875	0.679	ug/l #	42
48) Methyl methacrylate	9.671	41	2380	1.724	ug/l #	36
51) 4-Methyl-2-Pentanone	10.453	43	2989	1.539	ug/l	91
53) t-1,3-Dichloropropene	10.729	75	547	0.266	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	28354	13.019	ug/l #	67
56) Ethyl methacrylate	10.982	69	801	0.366	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3565	1.491	ug/l #	42
59) 2-Hexanone	11.171	43	65268	44.270	ug/l #	21
71) Bromoform	12.847	173	516	0.487	ug/l #	1
74) N-amyl acetate	12.488	43	716	0.352	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	41133	28.247	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	41133	72.509	ug/l #	10

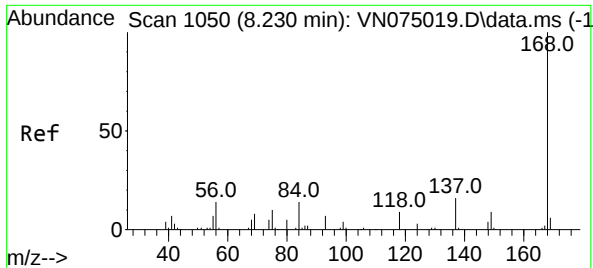
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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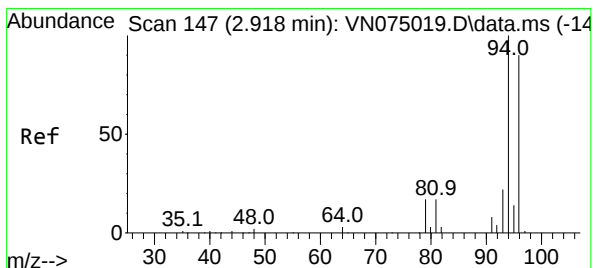
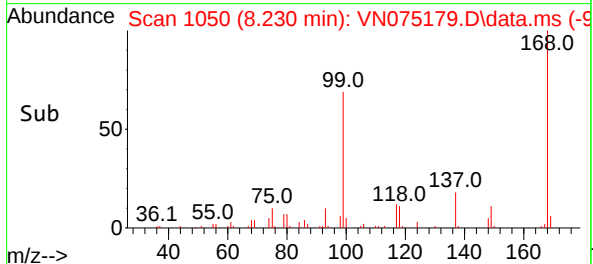
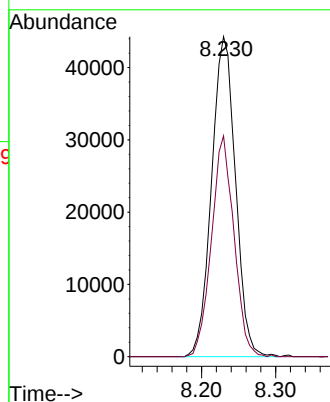
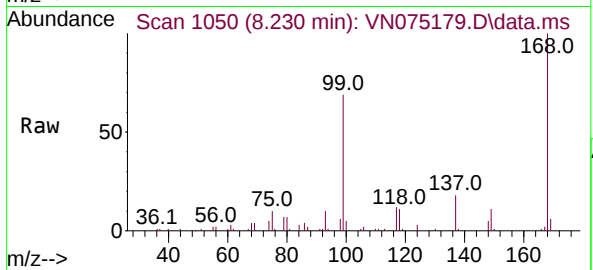




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

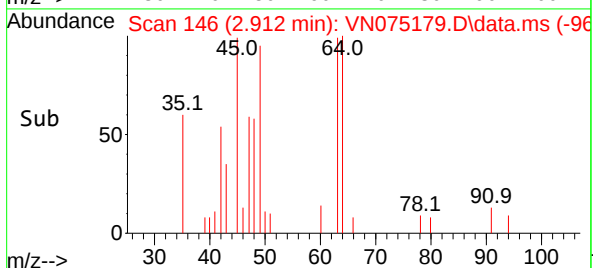
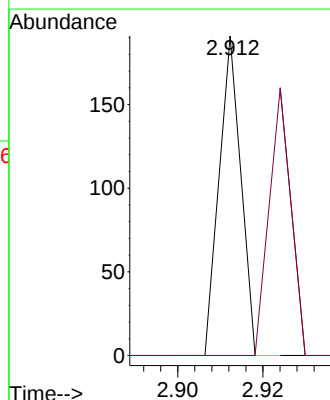
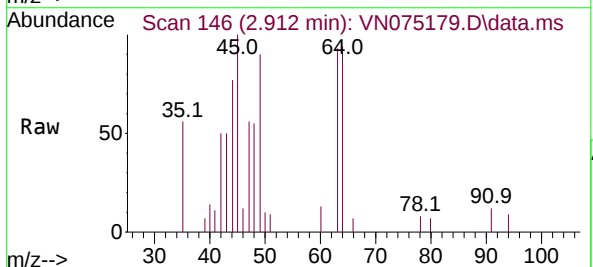
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

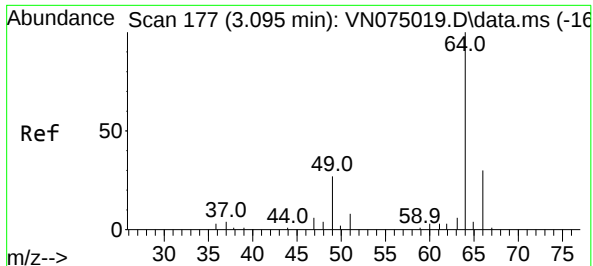
Tgt Ion:168 Resp: 99205
Ion Ratio Lower Upper
168 100
99 69.0 51.6 77.4



#5
Bromomethane
Concen: Below Cal
RT: 2.912 min Scan# 146
Delta R.T. -0.006 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 94 Resp: 67
Ion Ratio Lower Upper
94 100
96 0.0 71.8 107.6#

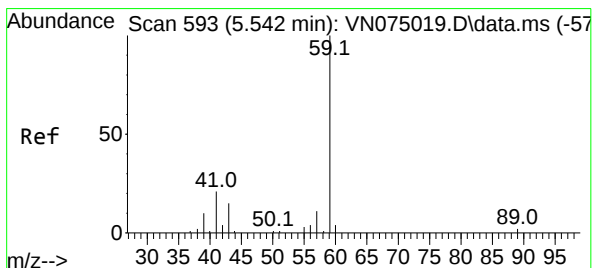
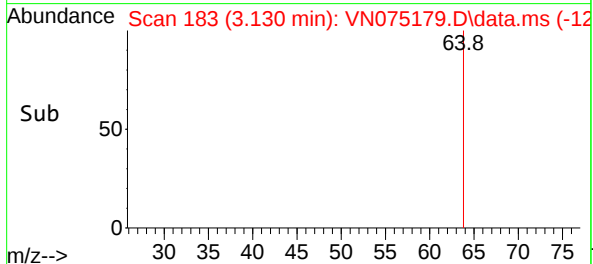
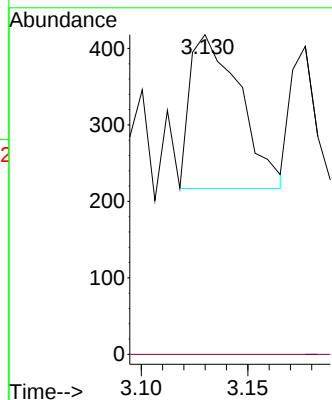
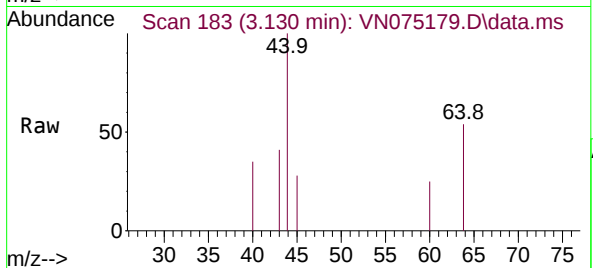




#6
Chloroethane
Concen: 0.234 ug/l
RT: 3.130 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

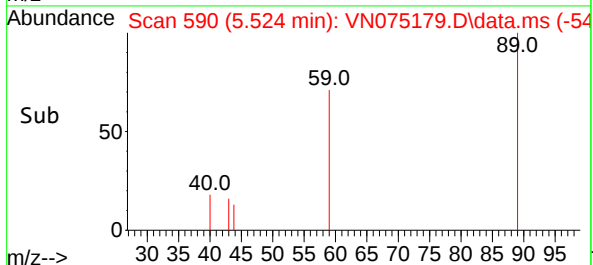
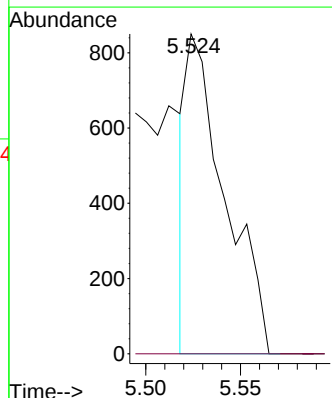
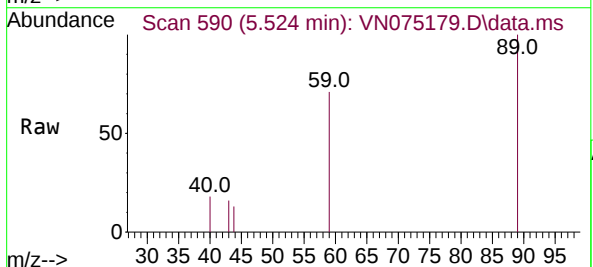
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

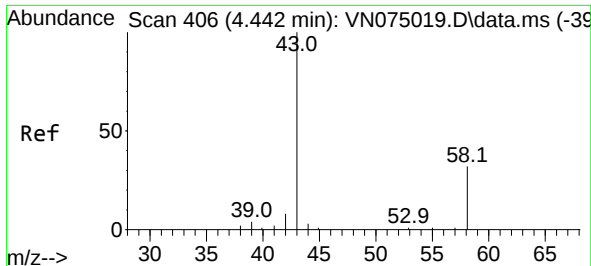
Tgt Ion: 64 Resp: 328
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#11
Tert butyl alcohol
Concen: 3.834 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.018 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 59 Resp: 1195
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

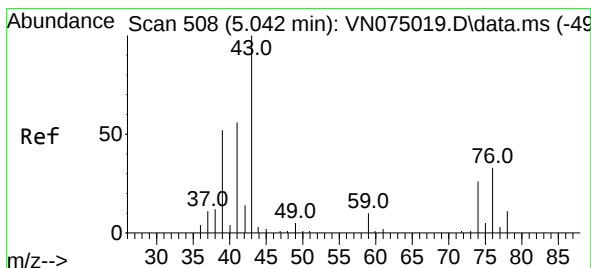
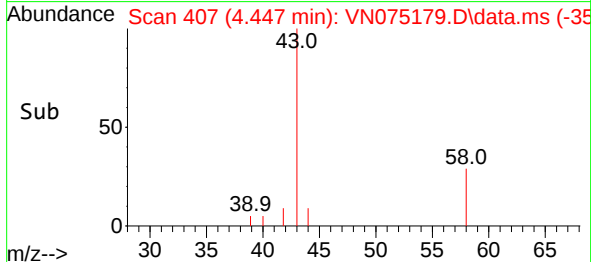
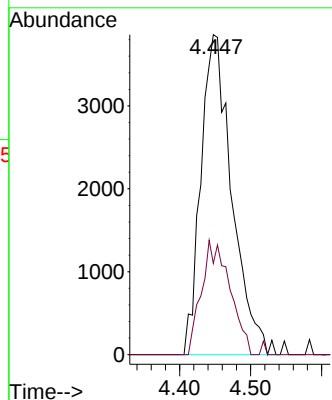
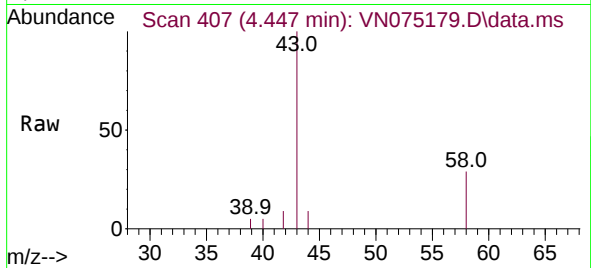




#16
Acetone
Concen: 20.730 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.005 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

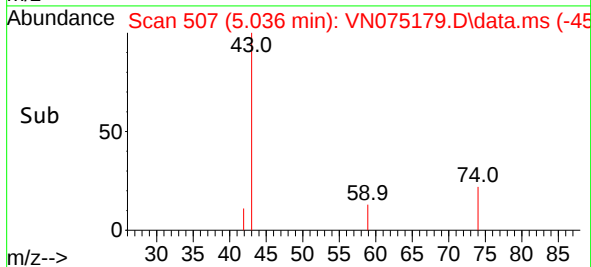
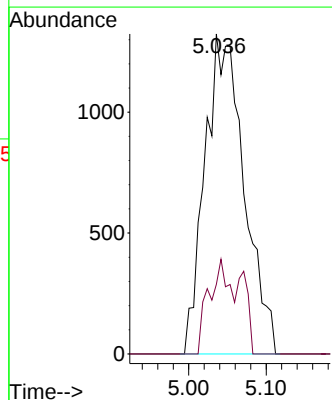
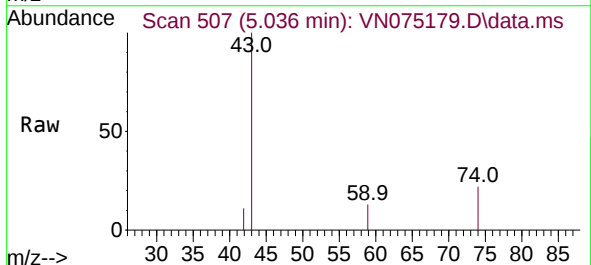
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

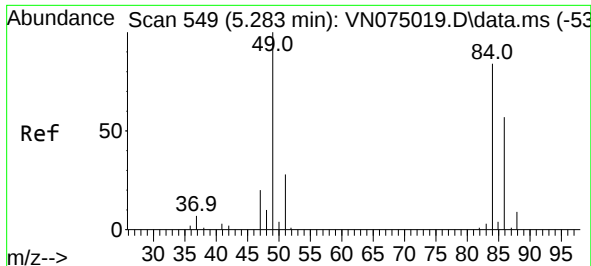
Tgt Ion: 43 Resp: 11733
Ion Ratio Lower Upper
43 100
58 28.5 25.5 38.3



#18
Methyl Acetate
Concen: 2.518 ug/l
RT: 5.036 min Scan# 507
Delta R.T. -0.006 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 43 Resp: 4655
Ion Ratio Lower Upper
43 100
74 16.4 22.0 33.0#

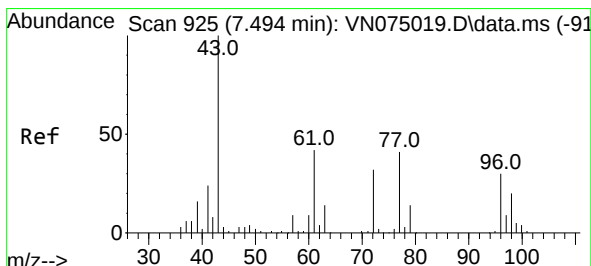
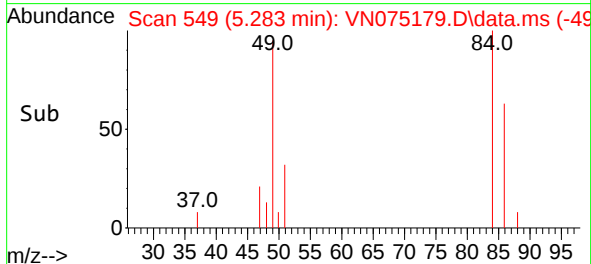
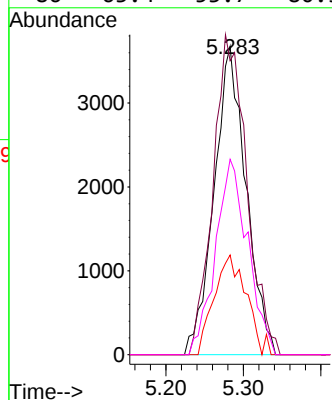
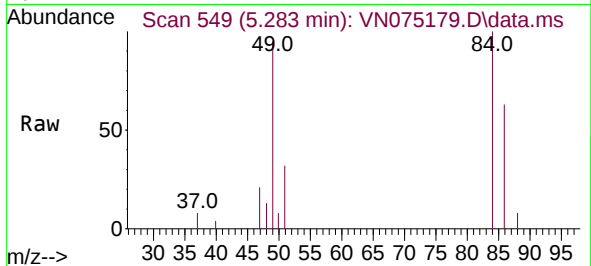




#20
Methylene Chloride
Concen: 8.359 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

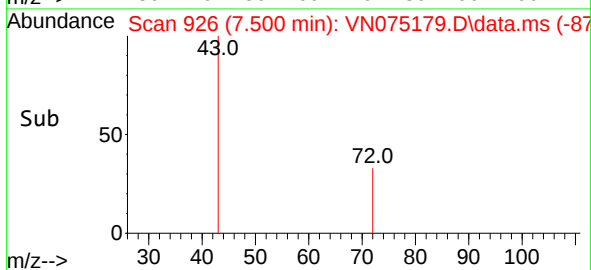
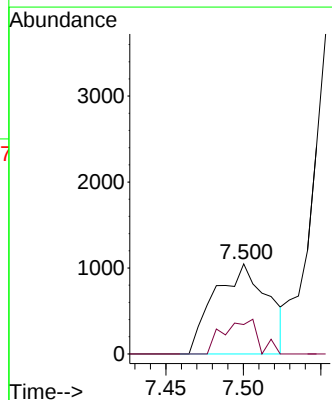
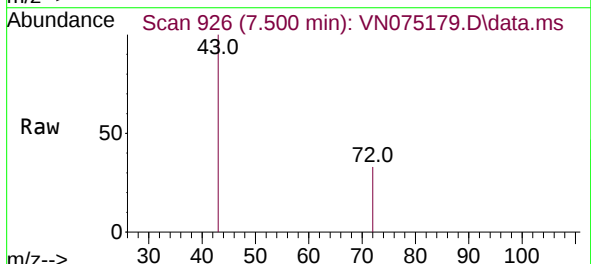
Instrument :
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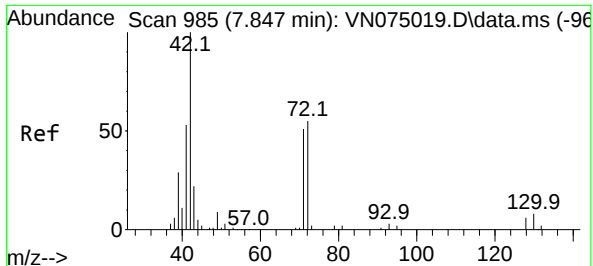
Tgt Ion: 84	Resp: 10548
Ion Ratio	Lower Upper
84 100	
49 95.3	94.9 142.3
51 32.3	26.8 40.2
86 63.4	53.7 80.5



#25
2-Butanone
Concen: 2.794 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.006 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 43	Resp: 2487		
Ion Ratio	Lower	Upper	
43 100			
72 32.6	25.5	38.3	





#29

Tetrahydrofuran

Concen: 0.212 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

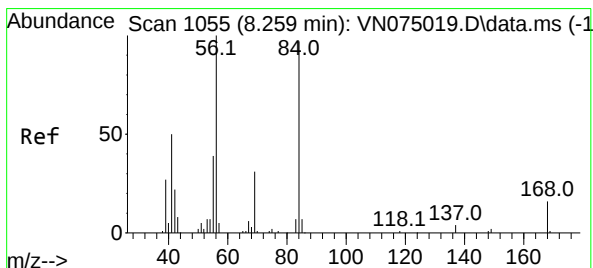
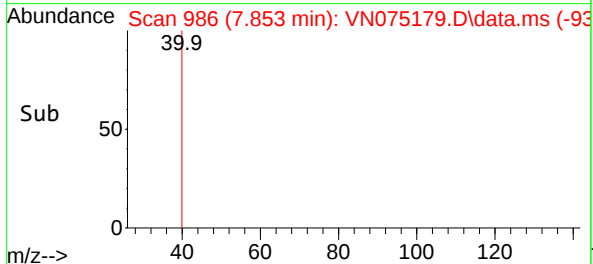
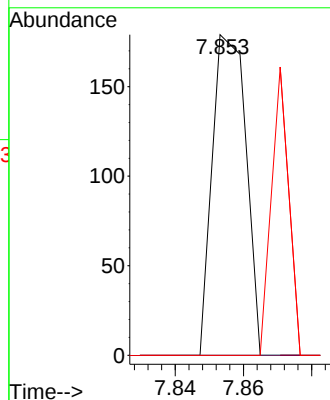
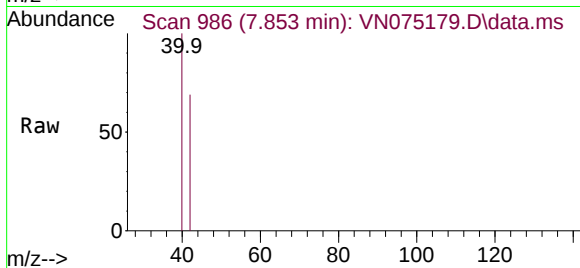
MSVOA_N

ClientSampleId :

SOIL-PILE

Tgt Ion: 42 Resp: 122

Ion	Ratio	Lower	Upper
42	100		
72	0.0	43.0	64.6#
71	46.7	39.9	59.9



#31

Cyclohexane

Concen: 1.243 ug/l

RT: 8.235 min Scan# 1051

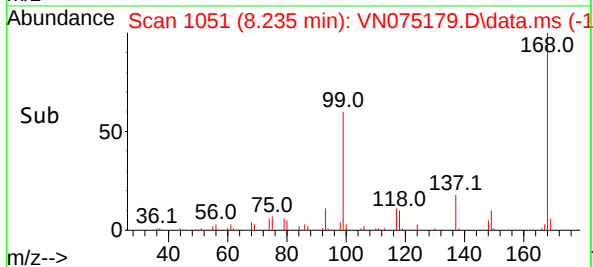
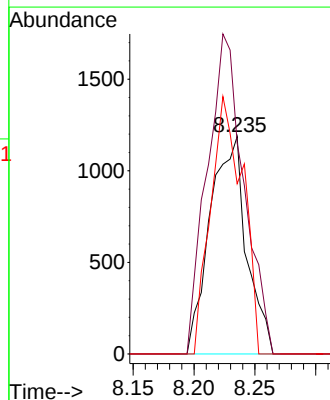
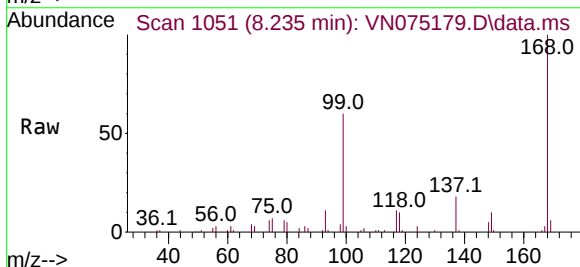
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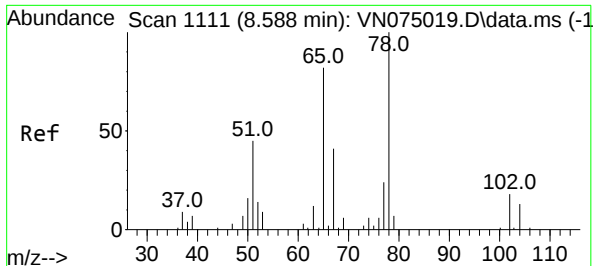
Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Tgt Ion: 56 Resp: 2471

Ion	Ratio	Lower	Upper
56	100		
69	97.0	25.2	37.8#
84	78.3	77.8	116.8





#33

1,2-Dichloroethane-d4

Concen: 57.714 ug/l

RT: 8.582 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

MSVOA_N

ClientSampleId :

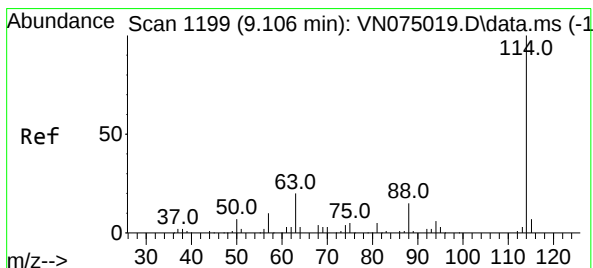
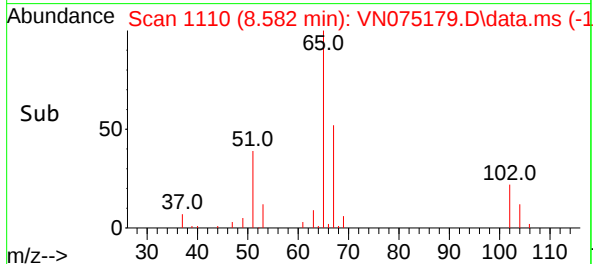
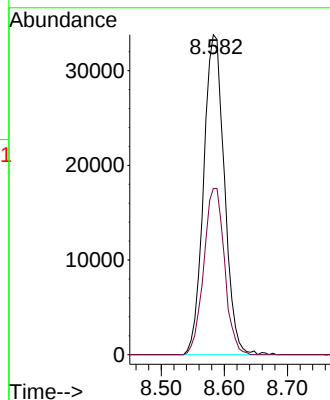
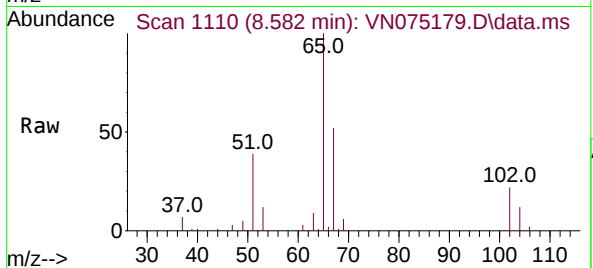
SOIL-PILE

Tgt Ion: 65 Resp: 77145

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

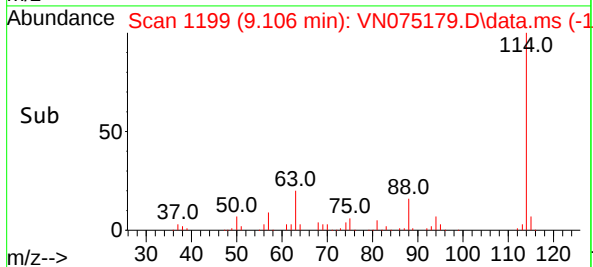
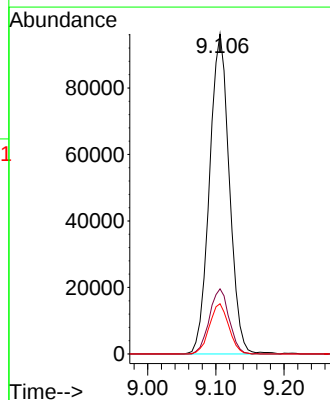
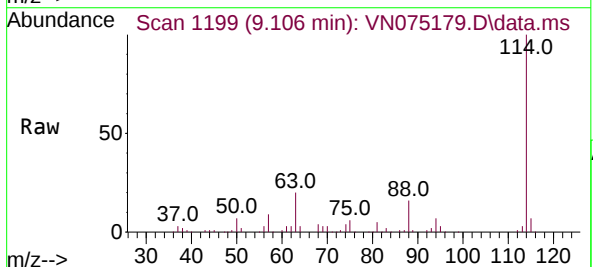
Tgt Ion: 114 Resp: 194707

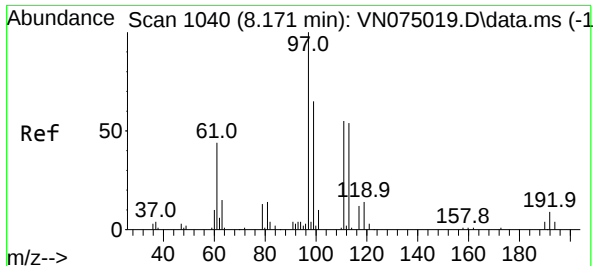
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.7 0.0 29.0





#35

Dibromofluoromethane

Concen: 52.681 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

MSVOA_N

ClientSampleId :

SOIL-PILE

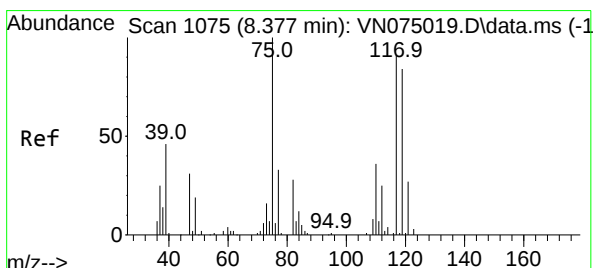
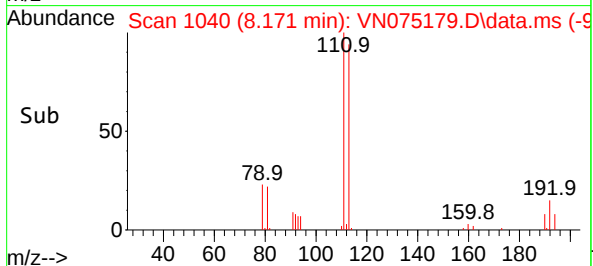
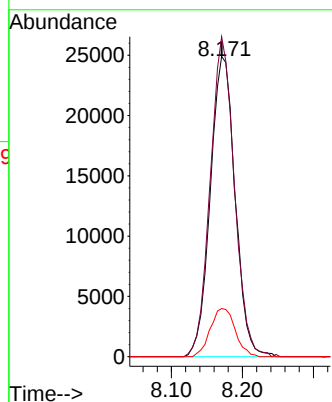
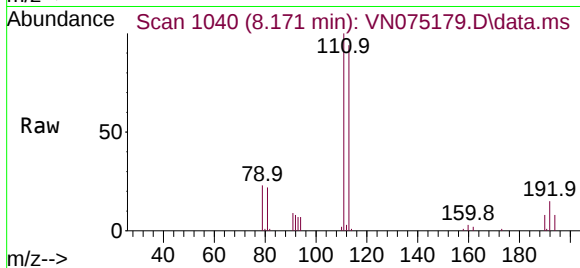
Tgt Ion:113 Resp: 60216

Ion Ratio Lower Upper

113 100

111 103.9 80.5 120.7

192 16.2 13.2 19.8



#36

1,1-Dichloropropene

Concen: 4.745 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

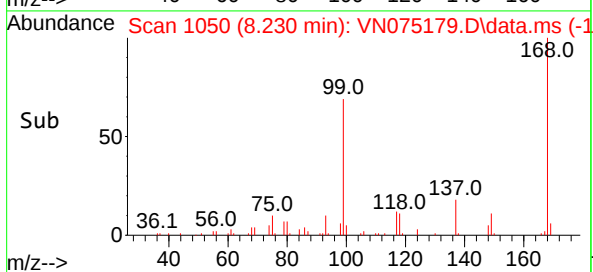
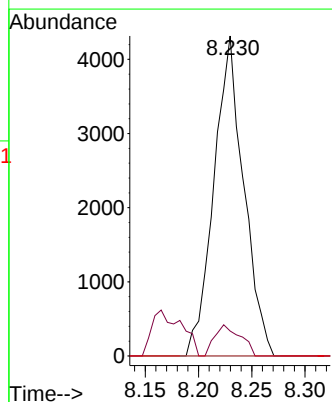
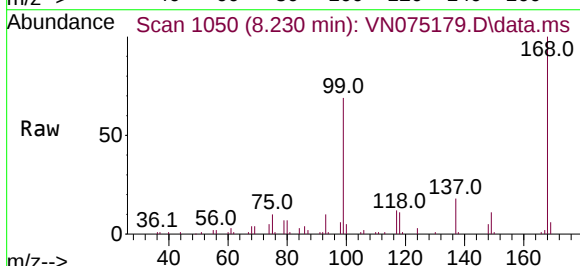
Tgt Ion: 75 Resp: 8397

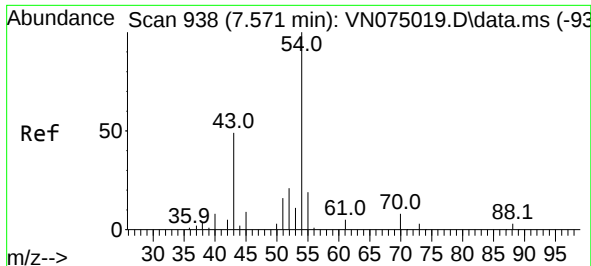
Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.3#

77 0.0 24.6 37.0#

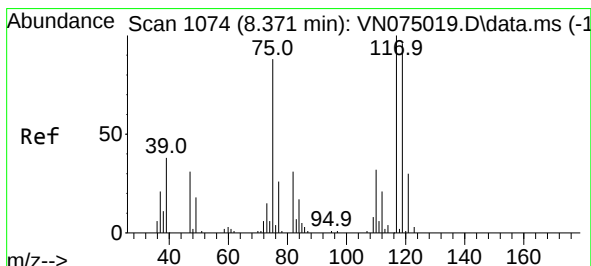
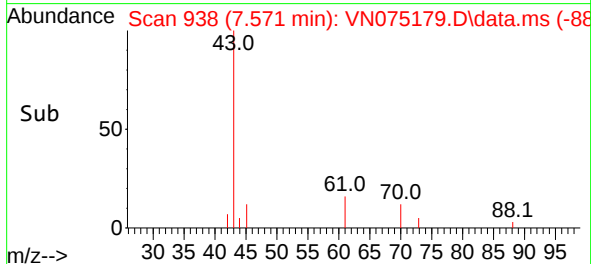
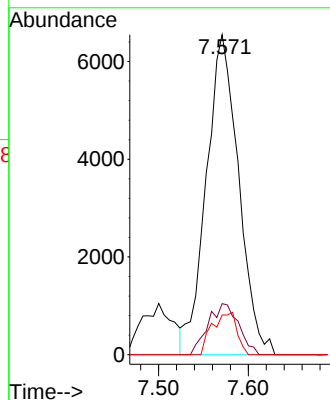
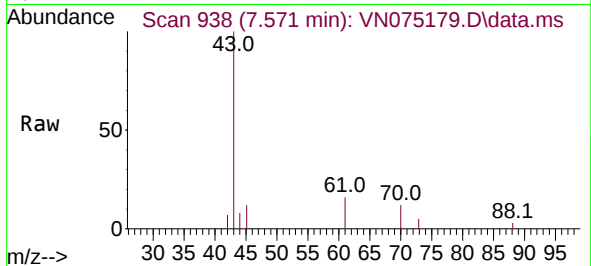




#37
Ethyl Acetate
Concen: 8.433 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

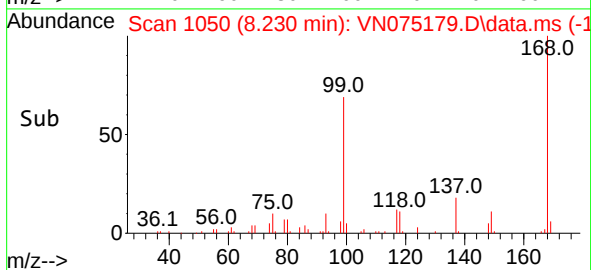
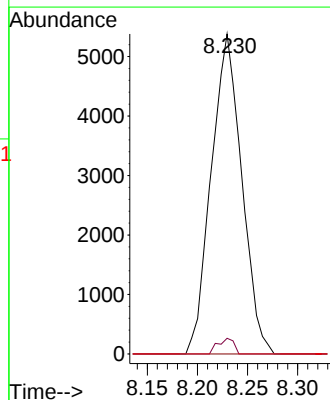
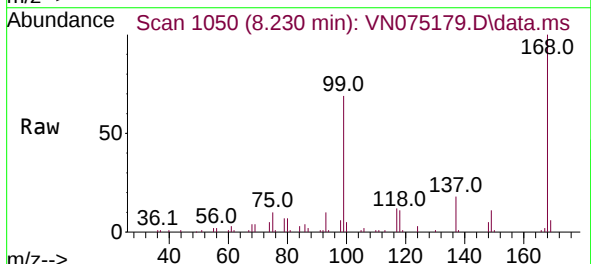
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

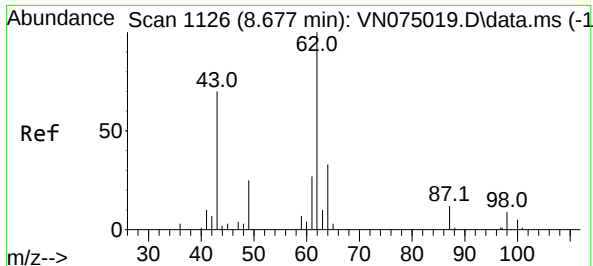
Tgt Ion:	43	Resp:	16365
Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.2	18.4
70	10.1	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.854 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion:	117	Resp:	11396
Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.7	115.1#
121	0.0	23.9	35.9#





#42

1,2-Dichloroethane

Concen: 0.252 ug/l

RT: 8.688 min Scan# 1128

Delta R.T. 0.011 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

MSVOA_N

ClientSampleId :

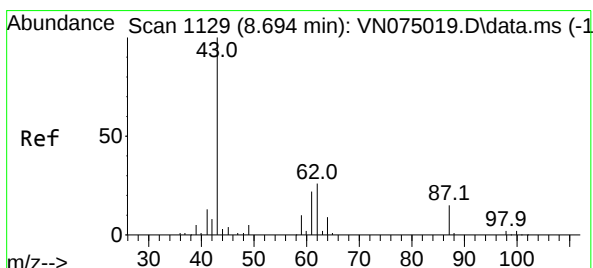
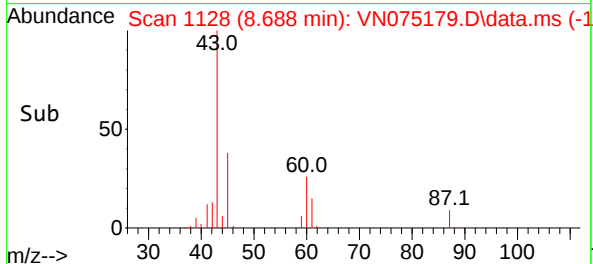
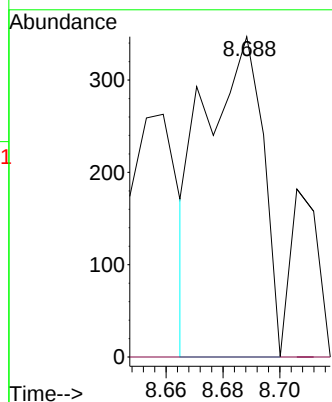
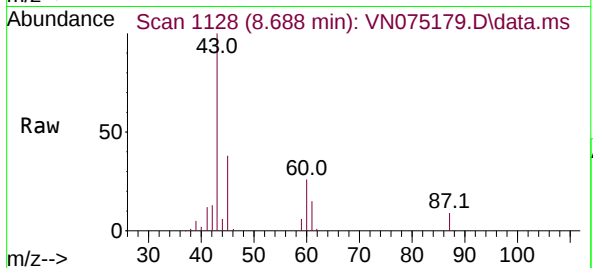
SOIL-PILE

Tgt Ion: 62 Resp: 496

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 47.255 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

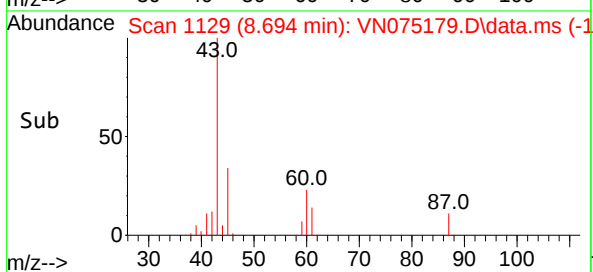
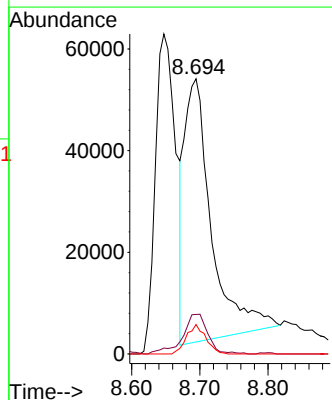
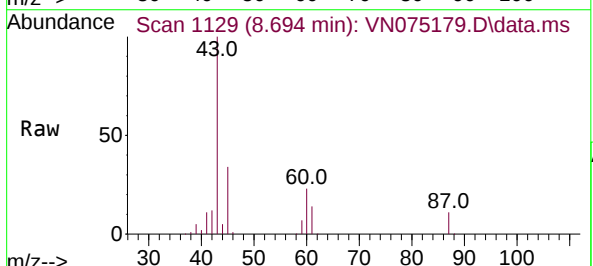
Tgt Ion: 43 Resp: 142252

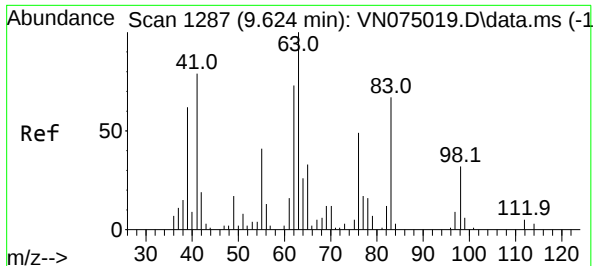
Ion Ratio Lower Upper

43 100

61 14.2 22.4 33.6#

87 8.0 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.679 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

MSVOA_N

ClientSampleId :

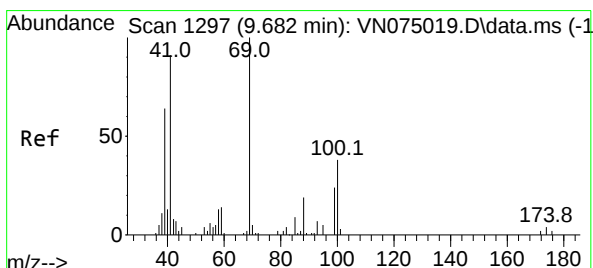
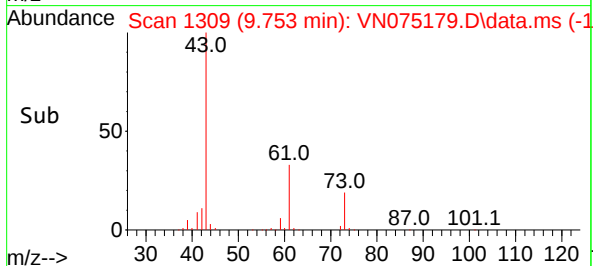
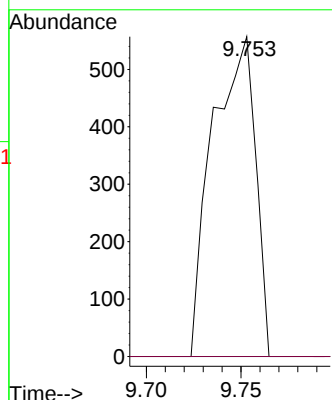
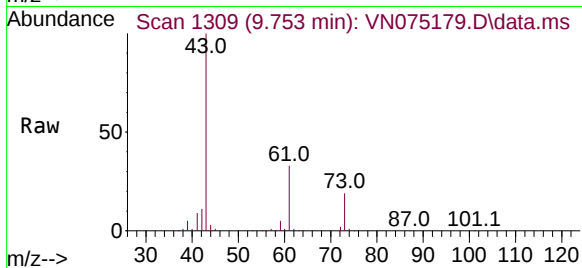
SOIL-PILE

Tgt Ion: 63 Resp: 875

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 1.724 ug/l

RT: 9.671 min Scan# 1295

Delta R.T. -0.011 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

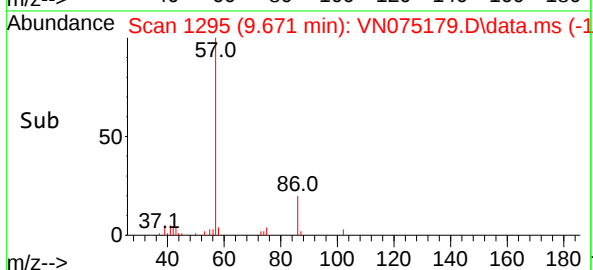
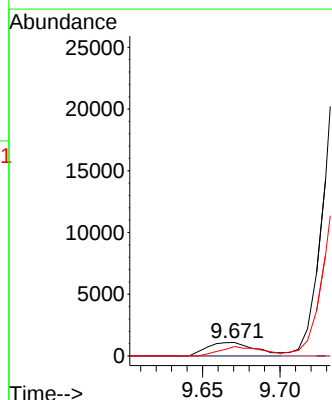
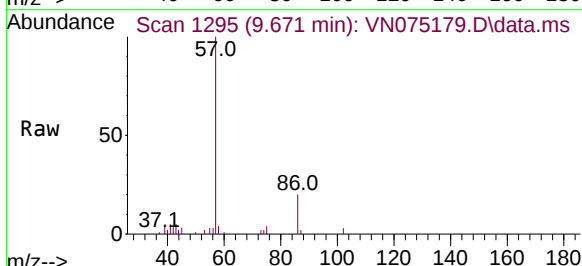
Tgt Ion: 41 Resp: 2380

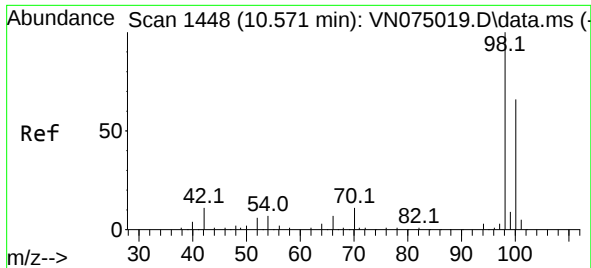
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 60.5 56.2 84.2

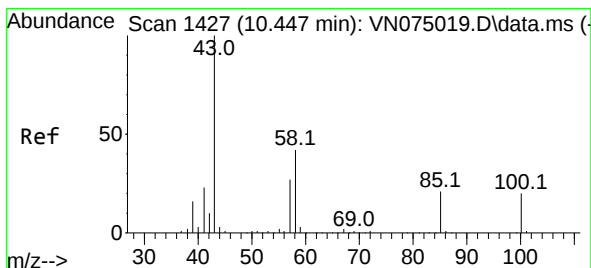
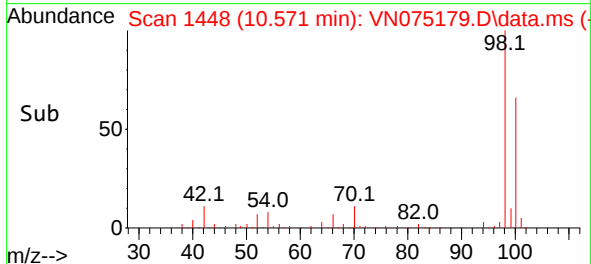
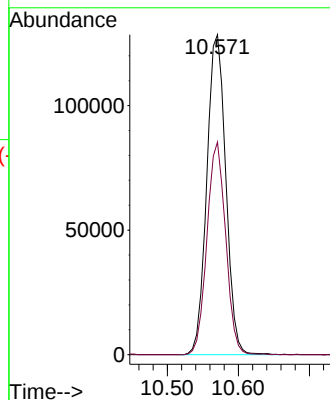
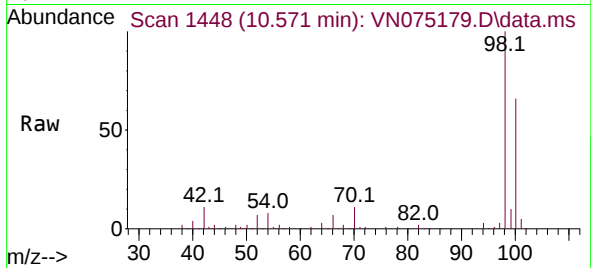




#50
Toluene-d8
Concen: 53.911 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

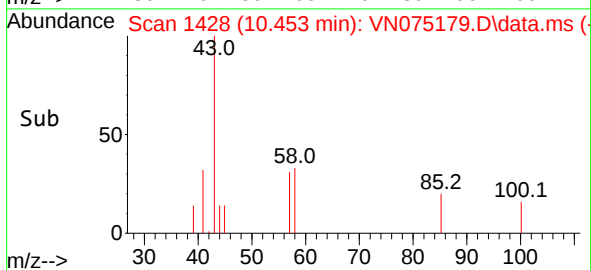
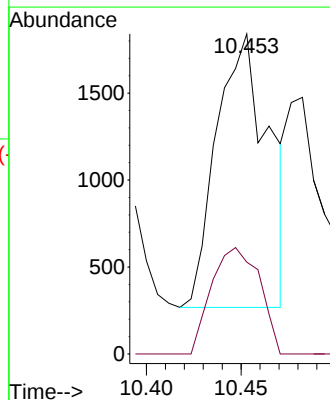
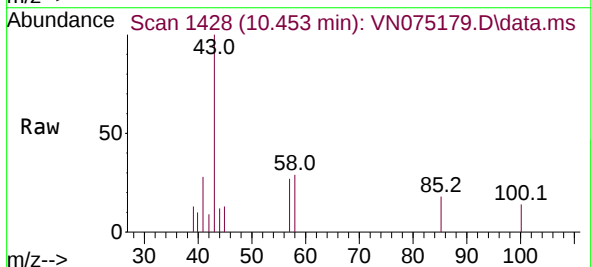
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

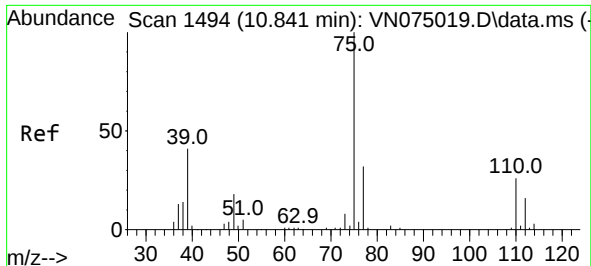
Tgt Ion: 98 Resp: 239074
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 1.539 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 43 Resp: 2989
Ion Ratio Lower Upper
43 100
58 36.2 33.6 50.4

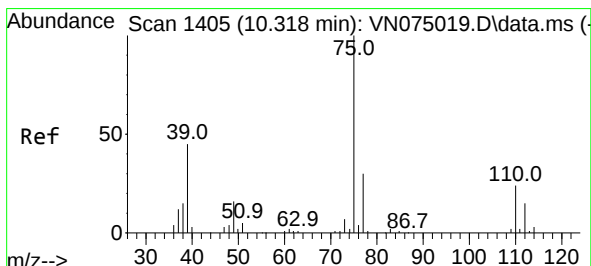
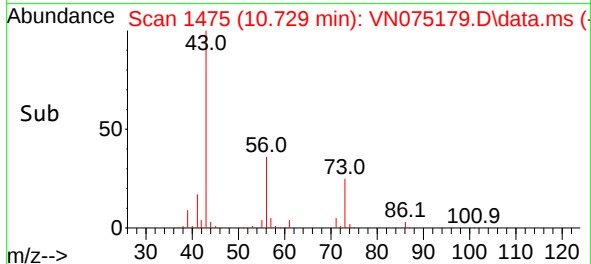
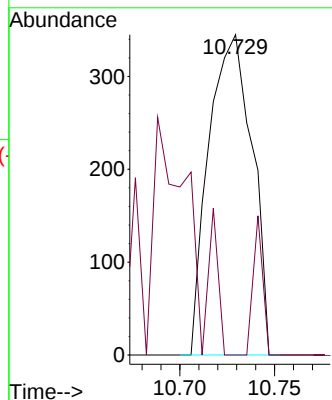
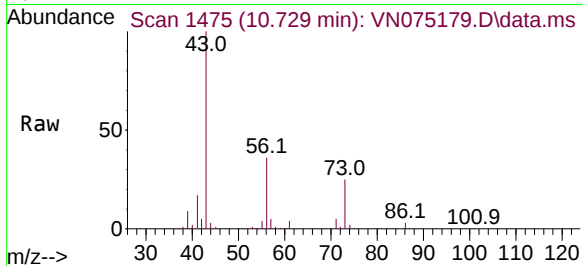




#53
 t-1,3-Dichloropropene
 Concen: 0.266 ug/l
 RT: 10.729 min Scan# 1412
 Delta R.T. -0.112 min
 Lab File: VN075179.D
 Acq: 04 Nov 2022 16:57

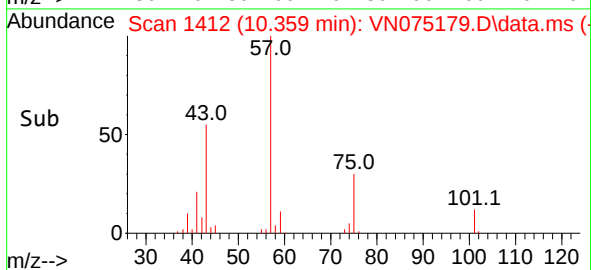
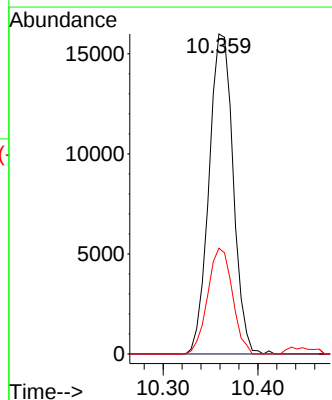
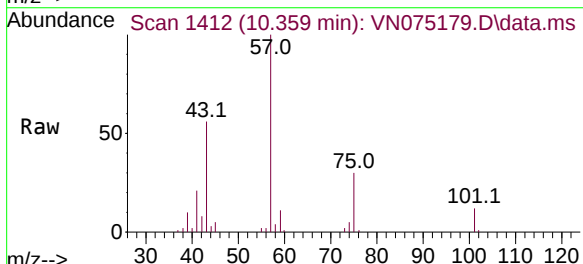
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-PILE

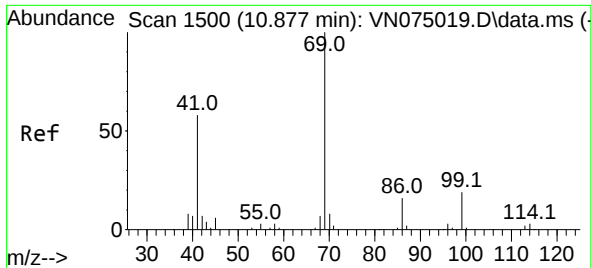
Tgt Ion: 75 Resp: 547
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 13.019 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.041 min
 Lab File: VN075179.D
 Acq: 04 Nov 2022 16:57

Tgt Ion: 75 Resp: 28354
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 33.1 35.8 53.6#

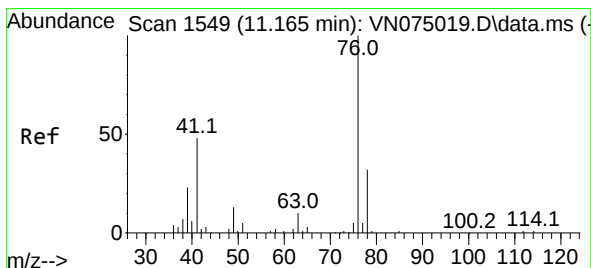
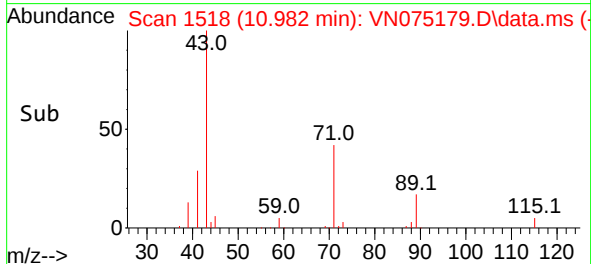
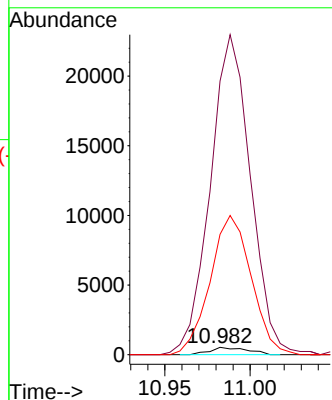
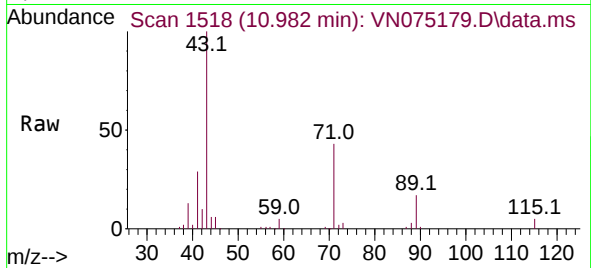




#56
Ethyl methacrylate
Concen: 0.366 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.105 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

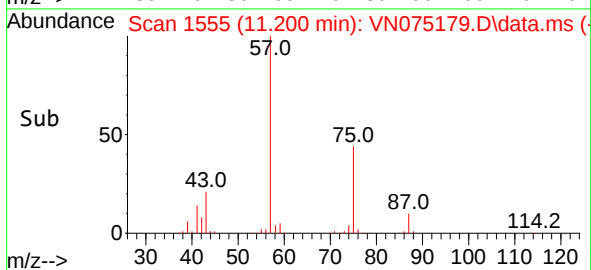
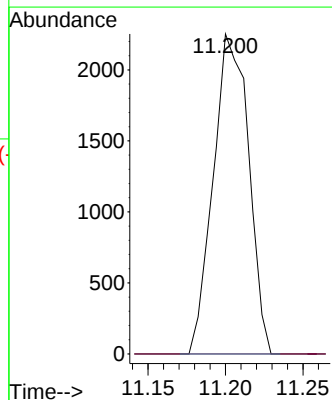
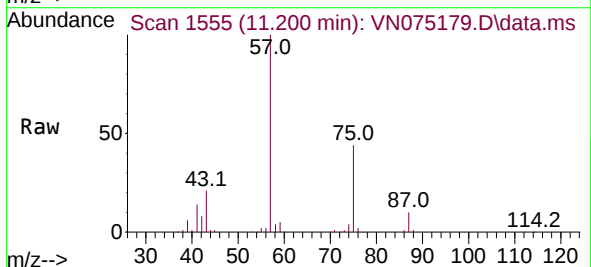
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

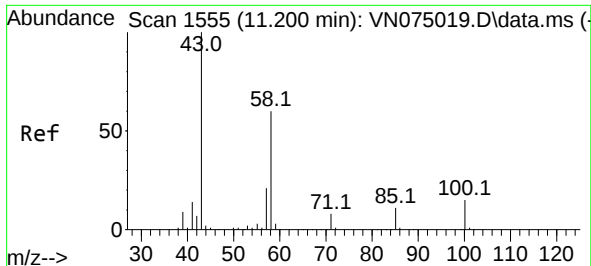
Tgt Ion: 69 Resp: 801
Ion Ratio Lower Upper
69 100
41 4732.5 45.6 68.4#
39 2094.9 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.491 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.035 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 76 Resp: 3565
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

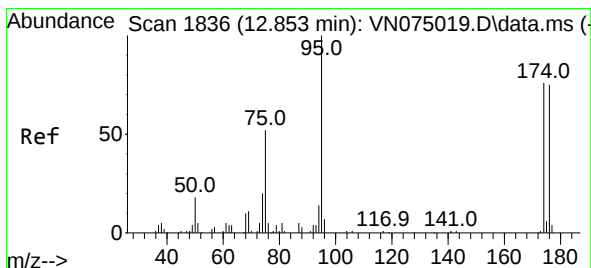
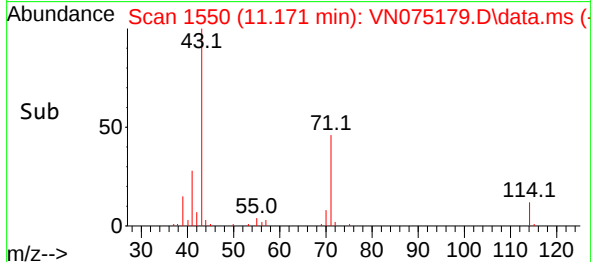
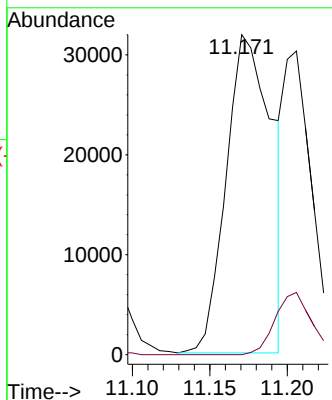
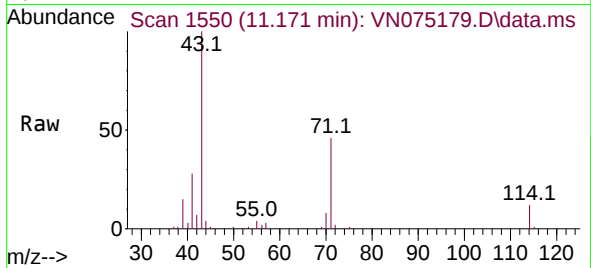




#59
2-Hexanone
Concen: 44.270 ug/l
RT: 11.171 min Scan# 11550
Delta R.T. -0.029 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

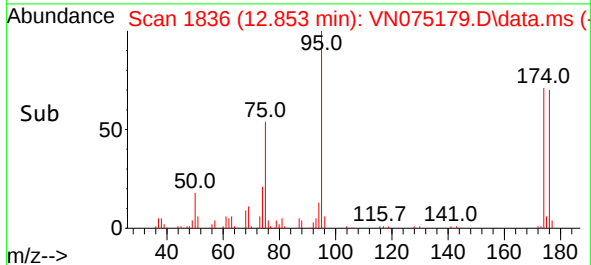
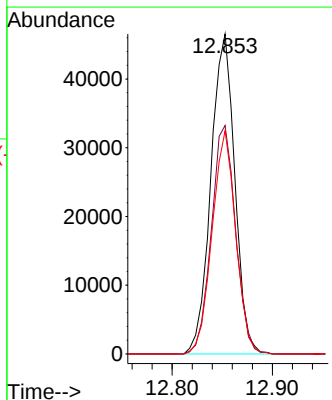
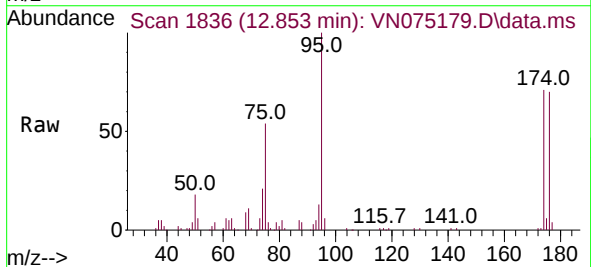
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

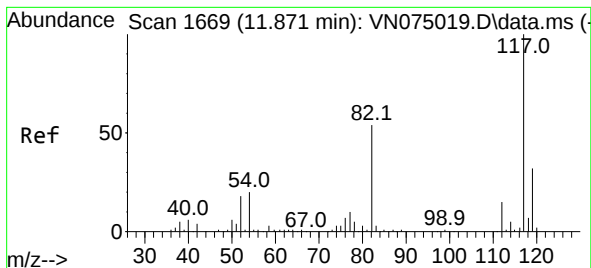
Tgt Ion: 43 Resp: 65268
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 49.408 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 95 Resp: 76968
Ion Ratio Lower Upper
95 100
174 72.6 0.0 147.4
176 68.7 0.0 142.2

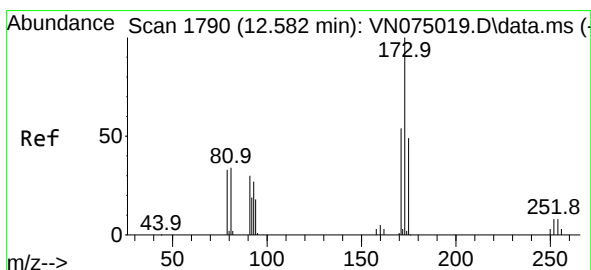
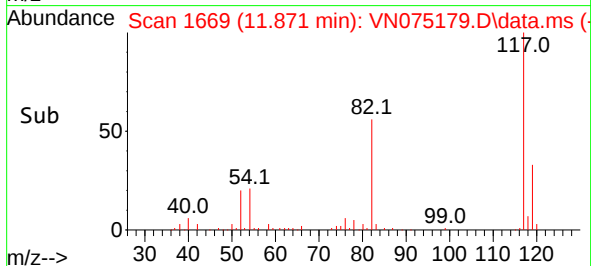
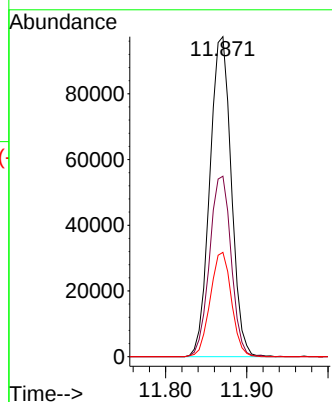
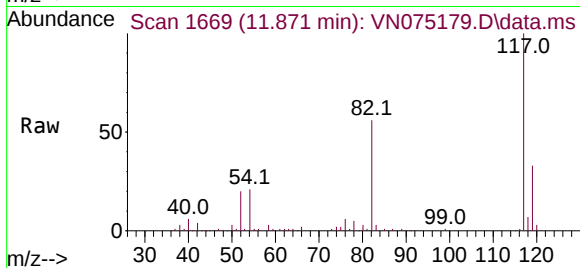




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

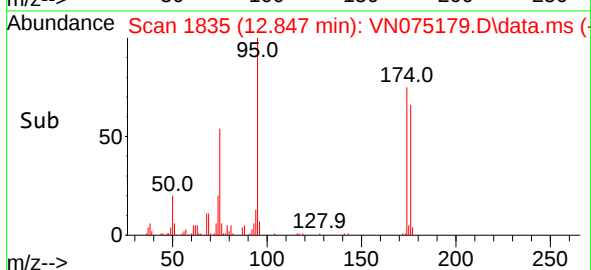
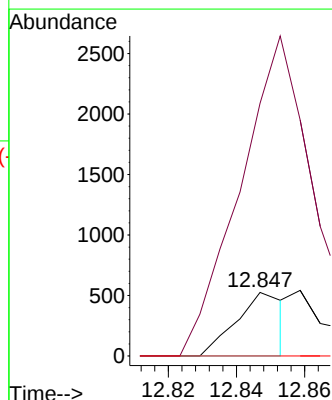
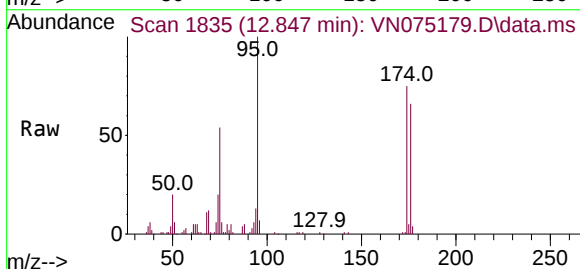
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

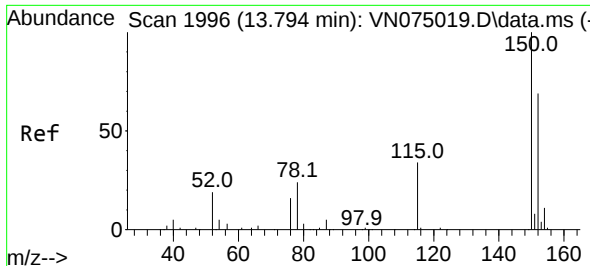
Tgt Ion:117 Resp: 178798
Ion Ratio Lower Upper
117 100
82 56.4 43.1 64.7
119 32.6 25.5 38.3



#71
Bromoform
Concen: 0.487 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.265 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion:173 Resp: 516
Ion Ratio Lower Upper
173 100
175 634.3 24.6 74.0#
254 0.0 0.0 0.0

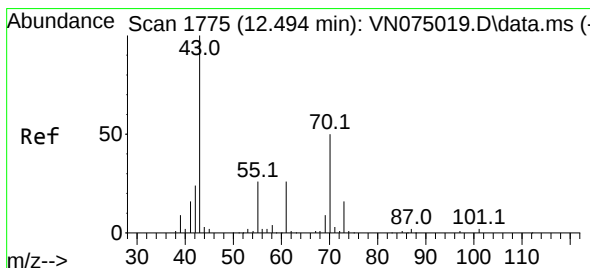
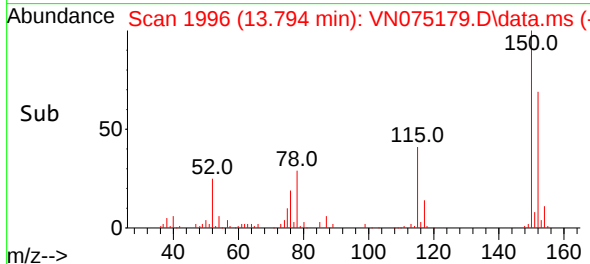
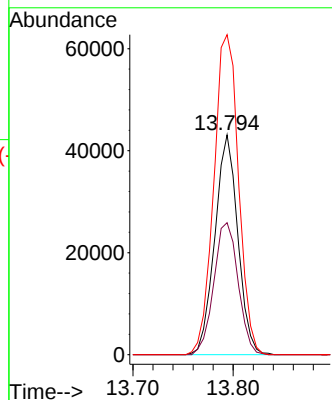
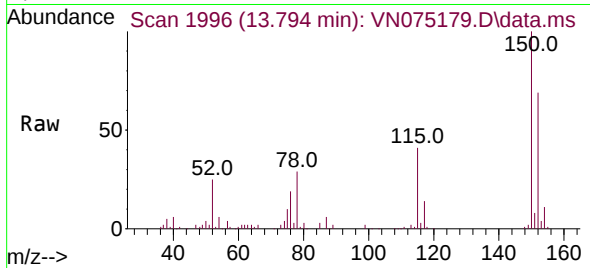




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

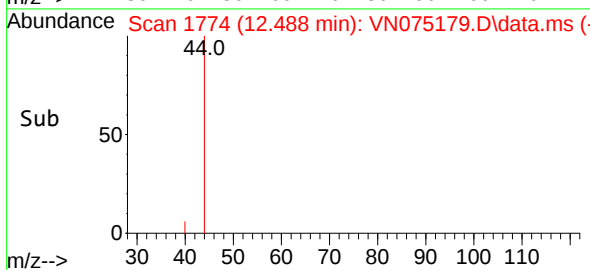
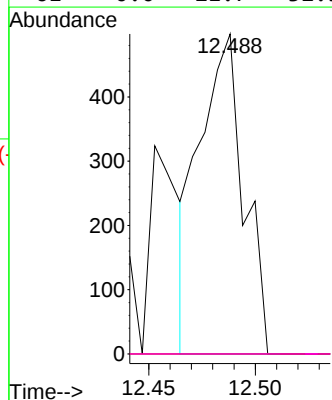
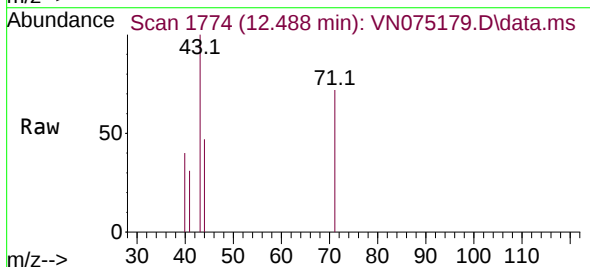
Instrument :
MSVOA_N
ClientSampleId :
SOIL-PILE

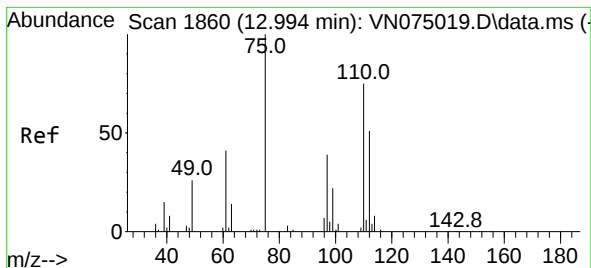
Tgt Ion:152 Resp: 68583
Ion Ratio Lower Upper
152 100
115 63.6 30.2 90.6
150 156.5 0.0 348.4



#74
N-ethyl acetate
Concen: 0.352 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN075179.D
Acq: 04 Nov 2022 16:57

Tgt Ion: 43 Resp: 716
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#





#76

1,2,3-Trichloropropane

Concen: 28.247 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Instrument :

MSVOA_N

ClientSampleId :

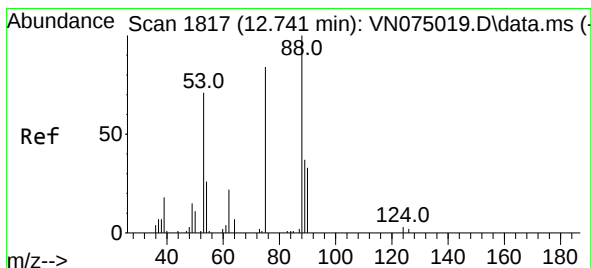
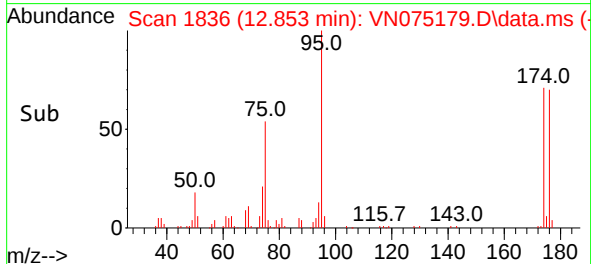
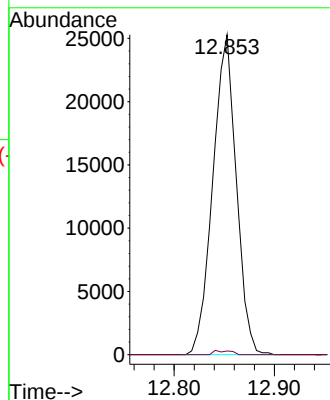
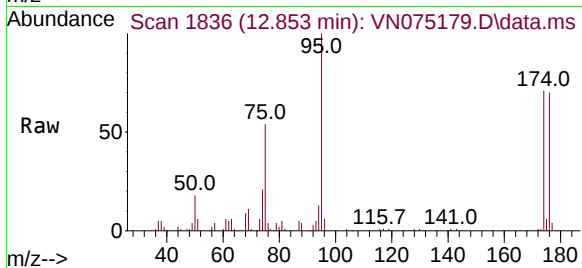
SOIL-PILE

Tgt Ion: 75 Resp: 41133

Ion Ratio Lower Upper

75 100

77 1.0 75.6 226.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.509 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN075179.D

Acq: 04 Nov 2022 16:57

Tgt Ion: 75 Resp: 41133

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.7 56.5#

