

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022422\
 Data File : VN071064.D
 Acq On : 24 Feb 2022 18:44
 Operator : JC\MD
 Sample : N1650-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 NW-SURFICIAL-SOIL-(NW-SS)

Quant Time: Feb 25 02:45:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 21 07:57:15 2022
 Response via : Initial Calibration

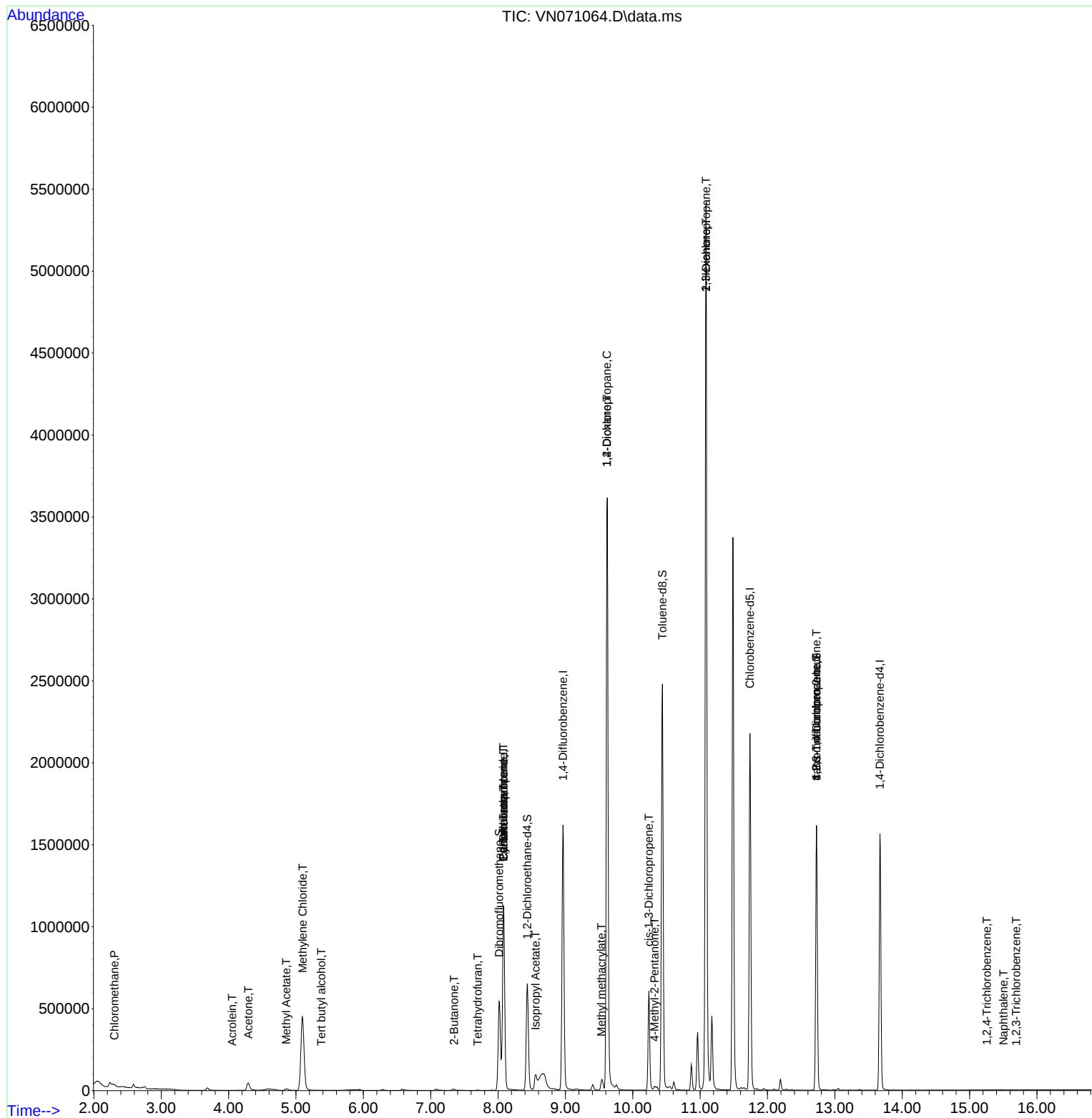
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.081	168	879033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1398351	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1257020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	435219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	532989	53.079	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 106.160%	
35) Dibromofluoromethane	8.016	113	411348	49.456	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 98.920%	
50) Toluene-d8	10.439	98	1724081	51.616	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 103.240%	
62) 4-Bromofluorobenzene	12.727	95	570260	47.763	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 95.520%	
Target Compounds						Qvalue
3) Chloromethane	2.304	50	2944	0.257	ug/l	100
11) Tert butyl alcohol	5.375	59	699	0.382	ug/l #	71
13) Acrolein	4.051	56	695	0.425	ug/l #	57
16) Acetone	4.293	43	87368	15.799	ug/l	94
18) Methyl Acetate	4.857	43	22553	1.275	ug/l	97
20) Methylene Chloride	5.098	84	358561	35.677	ug/l	91
25) 2-Butanone	7.345	43	15519	2.110	ug/l #	78
29) Tetrahydrofuran	7.698	42	1375	0.289	ug/l #	69
31) Cyclohexane	8.081	56	17430	1.004	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	64944	4.766	ug/l #	49
38) Carbon Tetrachloride	8.081	117	83882	6.248	ug/l #	17
43) Isopropyl Acetate	8.557	43	114930	4.989	ug/l #	79
45) 1,2-Dichloropropane	9.616	63	4602	0.446	ug/l #	44
48) Methyl methacrylate	9.533	41	19644	1.802	ug/l #	8
49) 1,4-Dioxane	9.616	88	418	2.158	ug/l #	1
51) 4-Methyl-2-Pentanone	10.322	43	16483	1.176	ug/l	97
54) cis-1,3-Dichloropropene	10.239	75	106392	6.488	ug/l #	59
57) 1,3-Dichloropropane	11.086	76	57075	3.328	ug/l #	43
59) 2-Hexanone	11.086	43	882562	91.562	ug/l #	50
76) 1,2,3-Trichloropropane	12.727	75	286954	28.003	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	286954	90.742	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.257	180	178	2.020	ug/l #	12
95) Naphthalene	15.504	128	1033	5.037	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.692	180	65	2.524	ug/l #	80

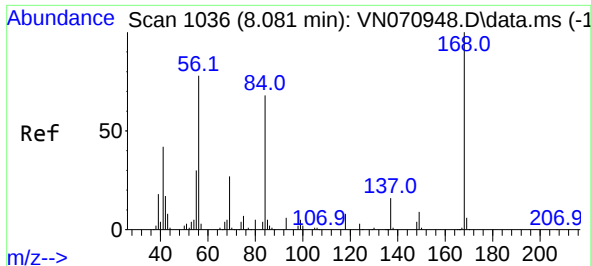
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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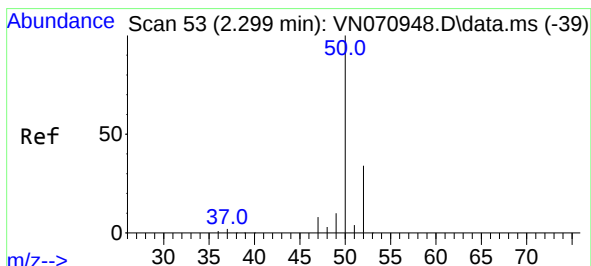
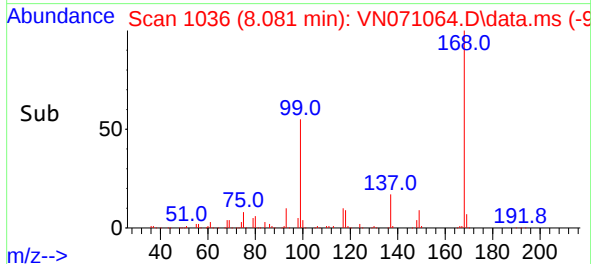
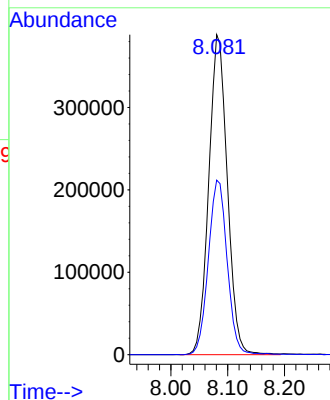
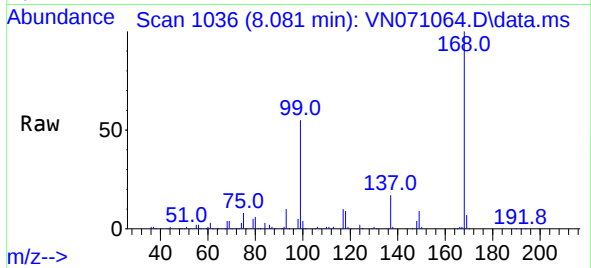




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

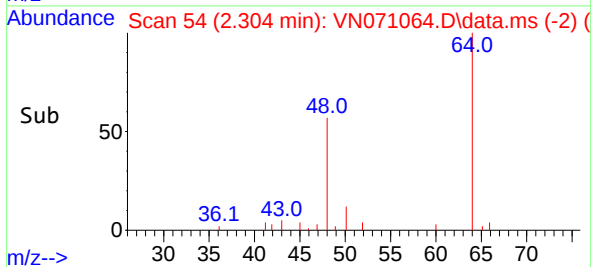
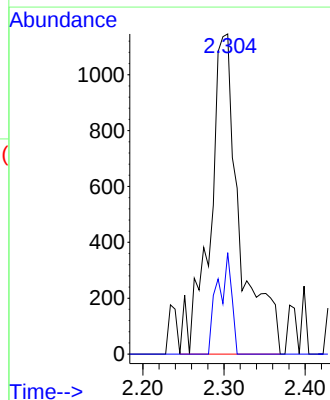
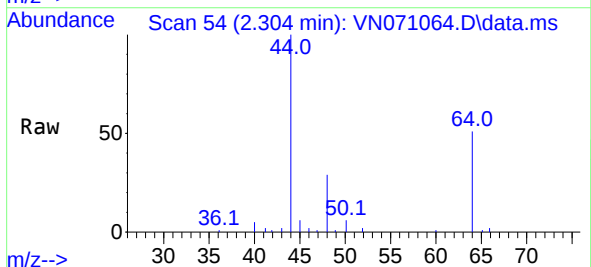
Instrument :
MSVOA_N
ClientSampleId :
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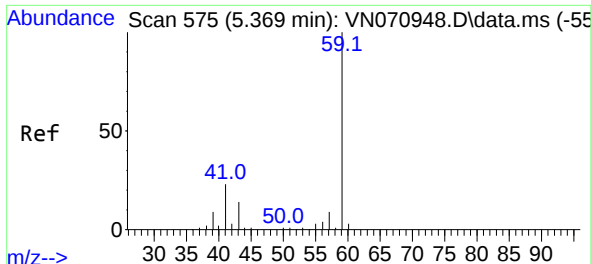
Tgt Ion:168 Resp: 879033
Ion Ratio Lower Upper
168 100
99 54.5 41.3 61.9



#3
Chloromethane
Concen: 0.257 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 50 Resp: 2944
Ion Ratio Lower Upper
50 100
52 31.7 25.4 38.0

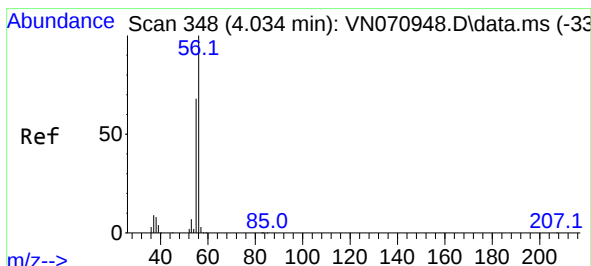
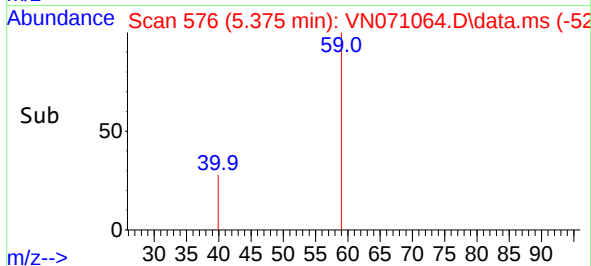
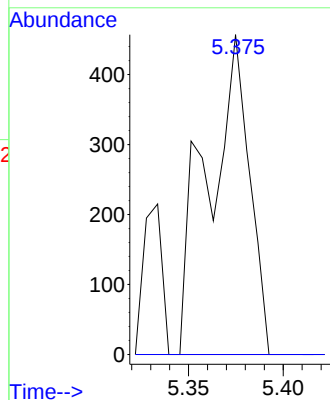
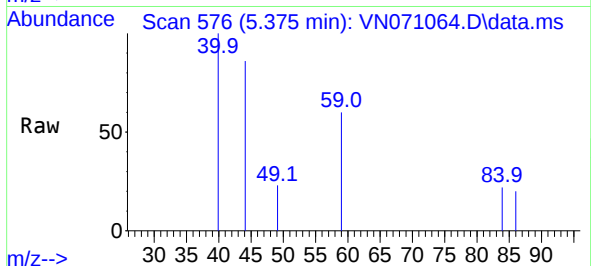




#11
Tert butyl alcohol
Concen: 0.382 ug/l
RT: 5.375 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

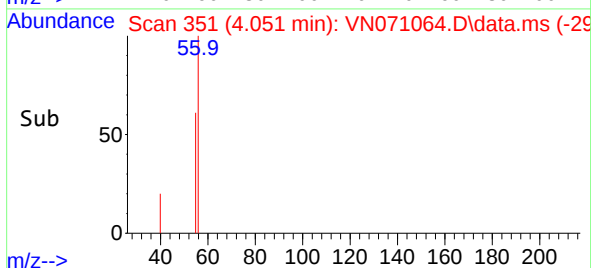
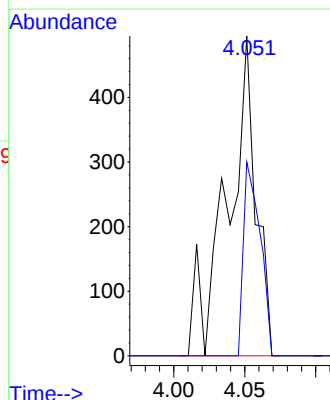
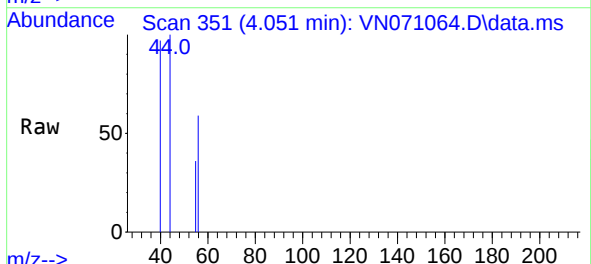
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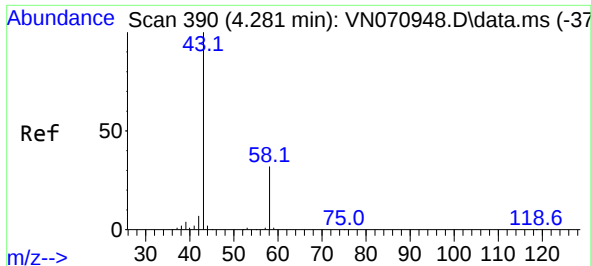
Tgt Ion: 59 Resp: 699
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.425 ug/l
RT: 4.051 min Scan# 351
Delta R.T. 0.017 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 56 Resp: 695
Ion Ratio Lower Upper
56 100
55 35.3 56.6 85.0#

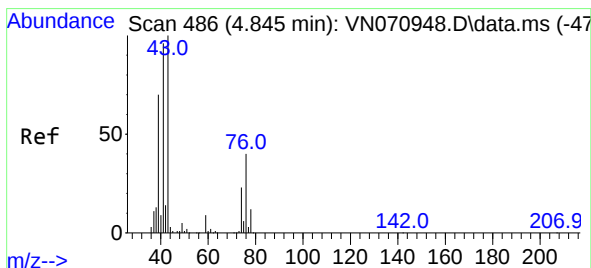
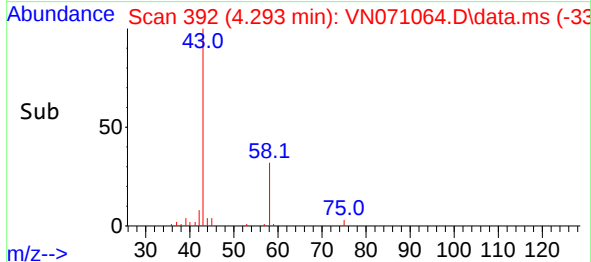
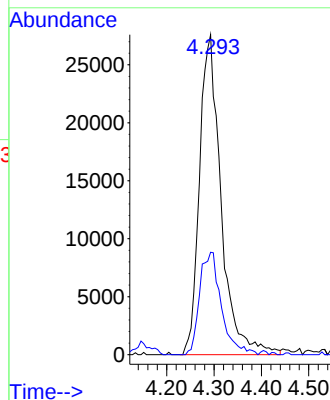
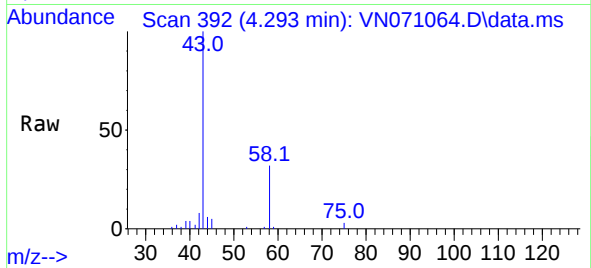




#16
Acetone
Concen: 15.799 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

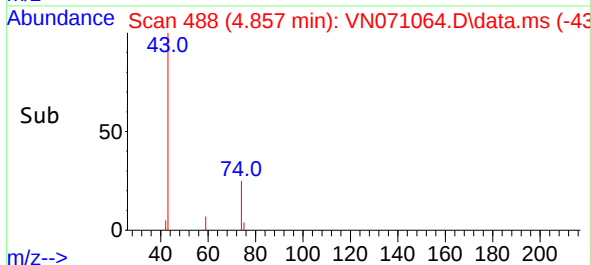
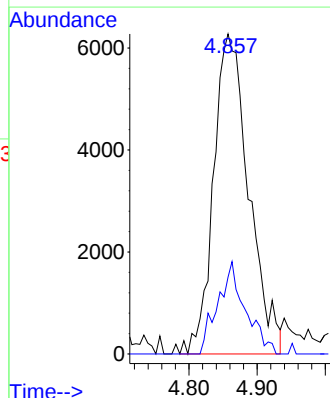
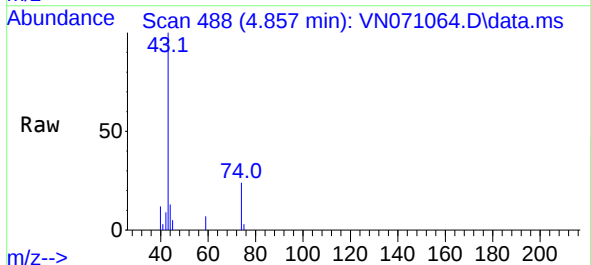
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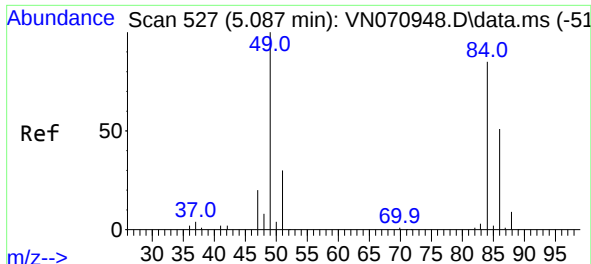
Tgt Ion: 43 Resp: 87368
Ion Ratio Lower Upper
43 100
58 32.0 23.1 34.7



#18
Methyl Acetate
Concen: 1.275 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.012 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 43 Resp: 22553
Ion Ratio Lower Upper
43 100
74 22.7 19.4 29.2

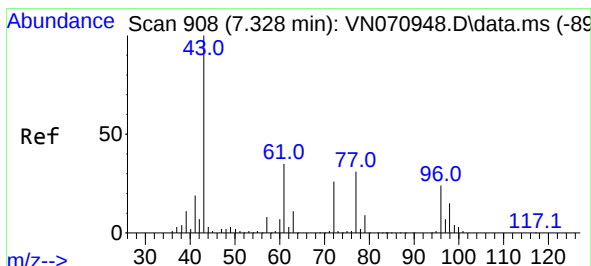
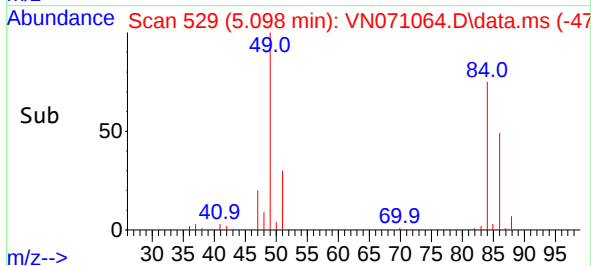
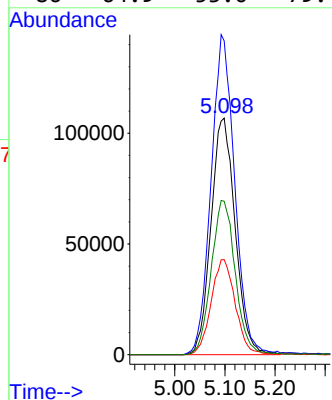
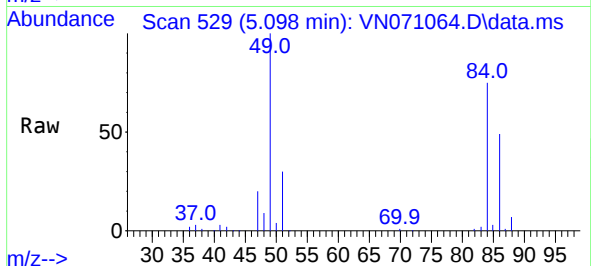




#20
Methylene Chloride
Concen: 35.677 ug/l
RT: 5.098 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

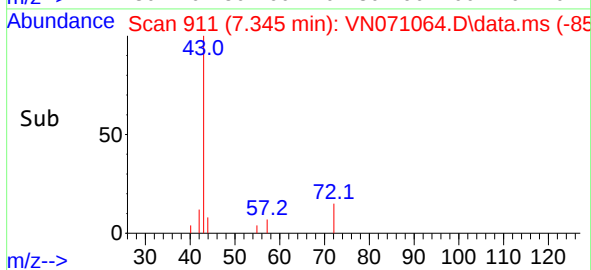
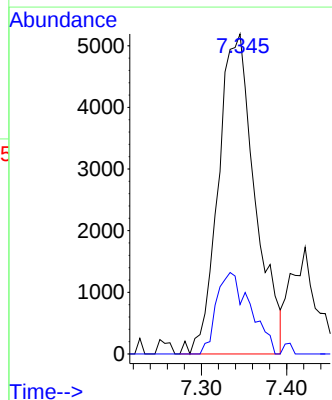
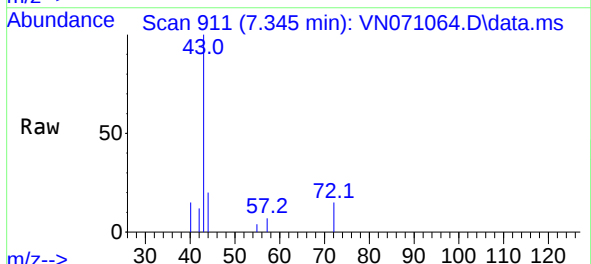
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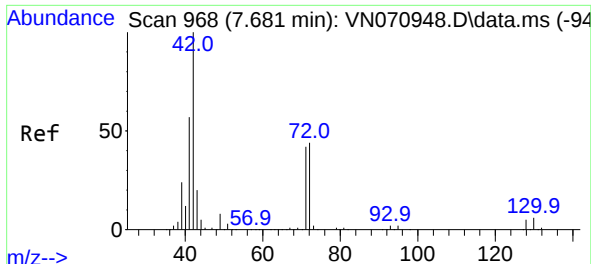
Tgt Ion:	84	Resp:	358561
Ion	Ratio	Lower	Upper
84	100		
49	132.7	93.5	140.3
51	40.2	29.4	44.2
86	64.9	53.0	79.4



#25
2-Butanone
Concen: 2.110 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.018 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion:	43	Resp:	15519
Ion	Ratio	Lower	Upper
43	100		
72	15.4	21.7	32.5#

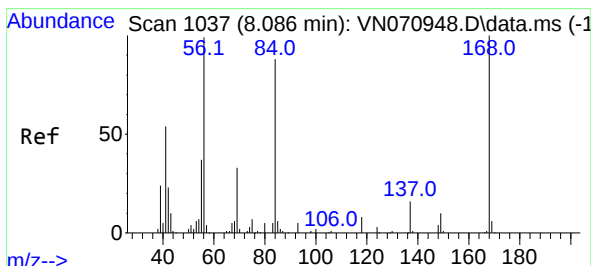
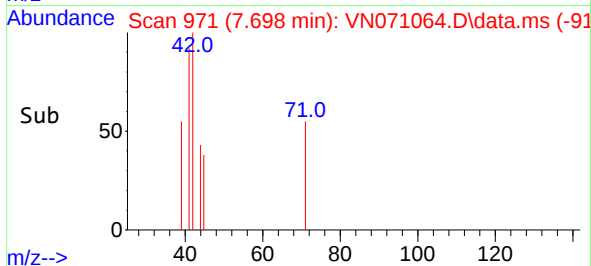
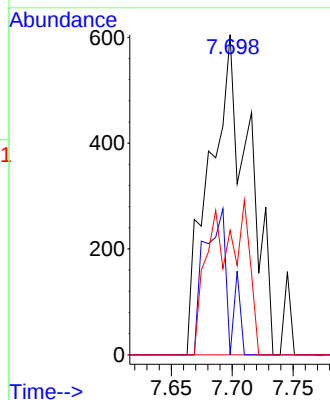
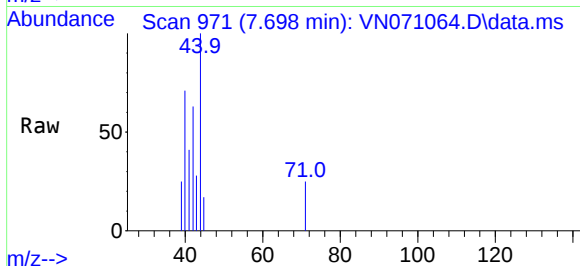




#29
Tetrahydrofuran
Concen: 0.289 ug/l
RT: 7.698 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

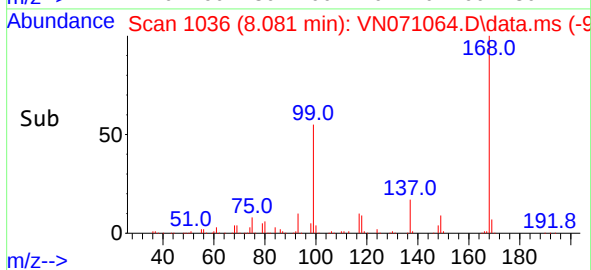
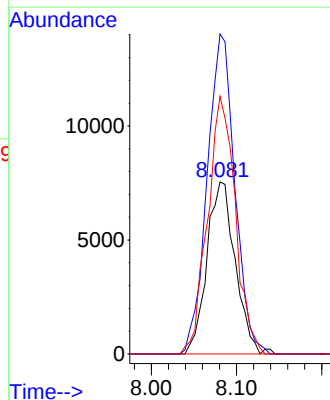
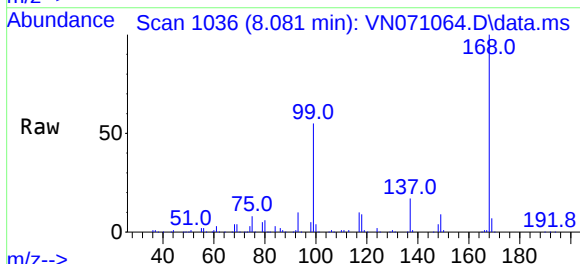
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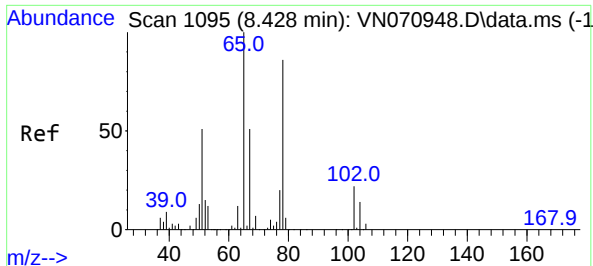
Tgt Ion:	42	Resp:	1375
Ion	Ratio	Lower	Upper
42	100		
72	27.7	36.3	54.5#
71	20.3	34.7	52.1#



#31
Cyclohexane
Concen: 1.004 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion:	56	Resp:	17430
Ion	Ratio	Lower	Upper
56	100		
69	186.0	27.1	40.7#
84	149.6	73.4	110.0#

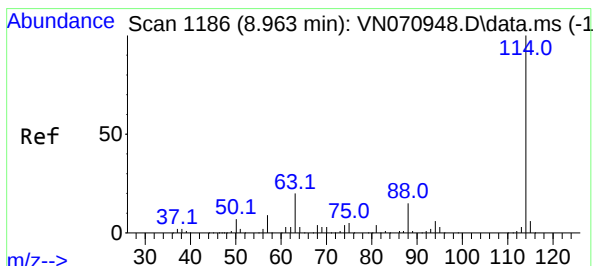
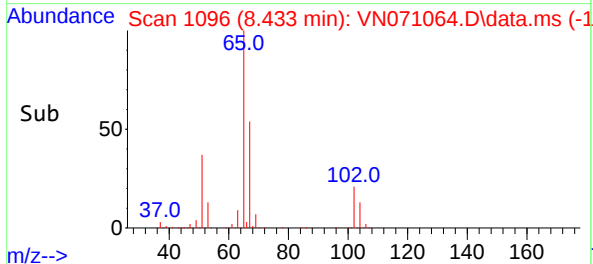
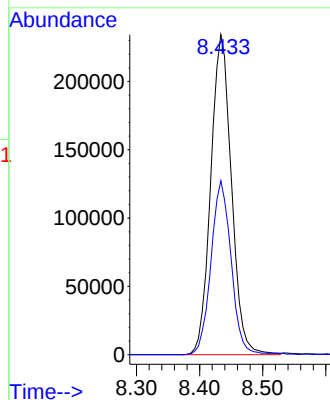
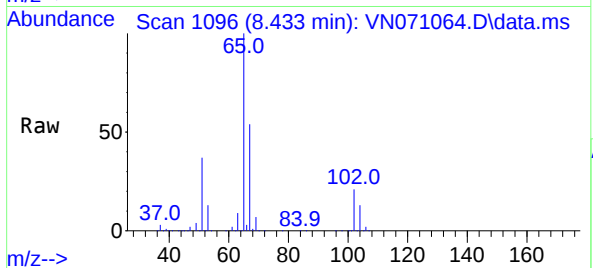




#33
1,2-Dichloroethane-d4
Concen: 53.079 ug/l
RT: 8.433 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN071064.D
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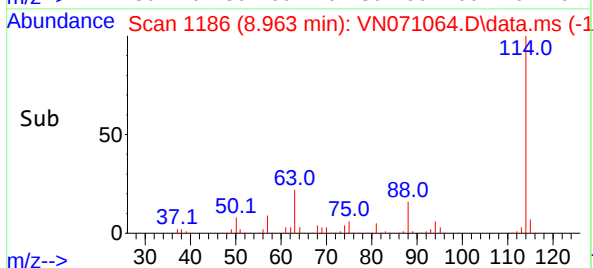
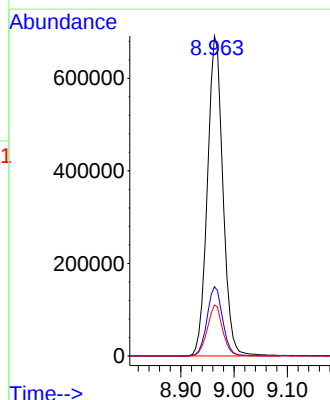
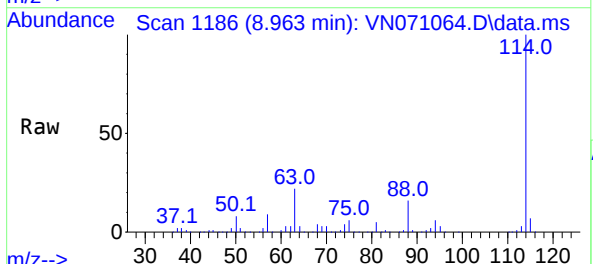
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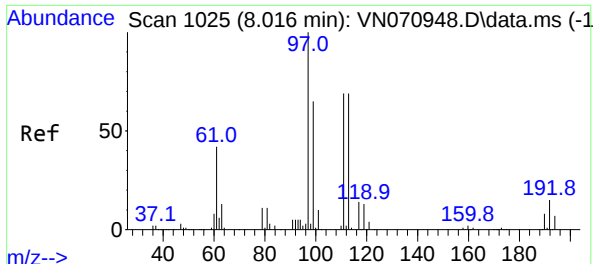
Tgt Ion: 65 Resp: 532989
Ion Ratio Lower Upper
65 100
67 52.8 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 114 Resp: 1398351
Ion Ratio Lower Upper
114 100
63 21.6 0.0 37.8
88 15.9 0.0 27.4

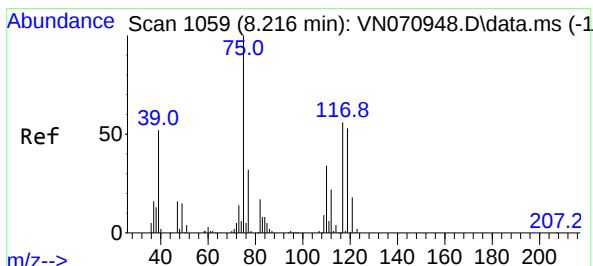
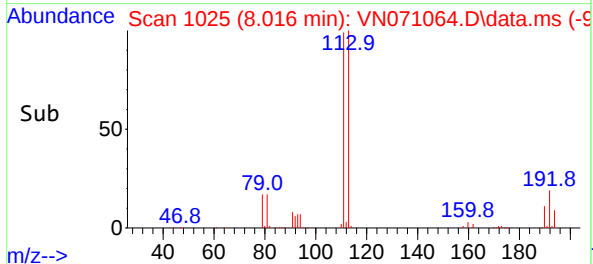
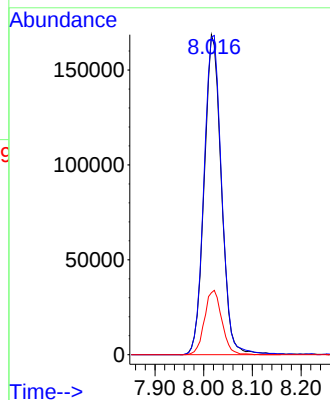
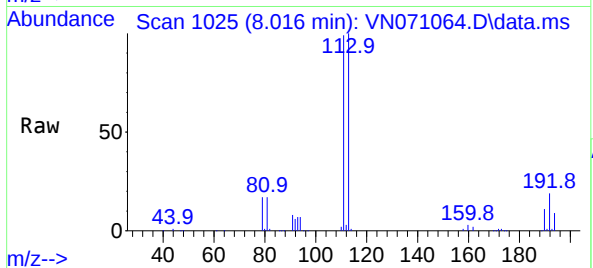




#35
Dibromofluoromethane
Concen: 49.456 ug/l
RT: 8.016 min Scan# 1035
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

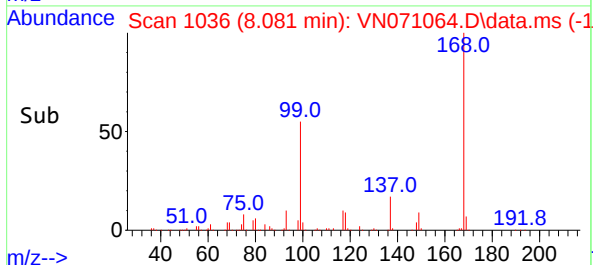
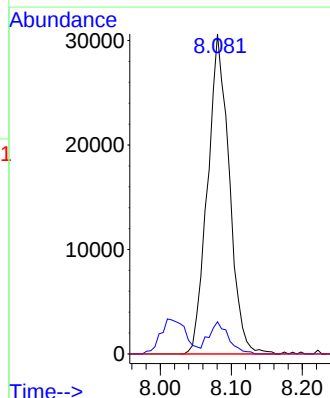
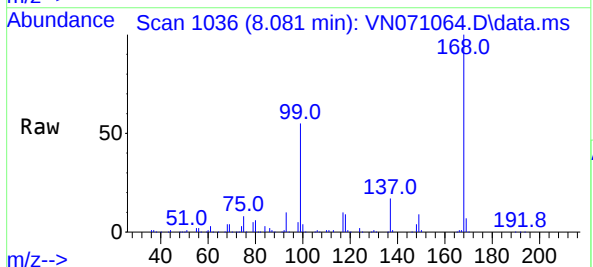
Instrument :
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ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

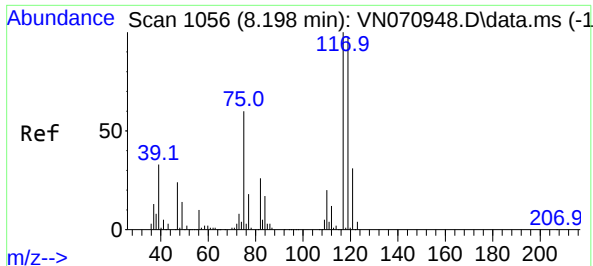
Tgt Ion:113 Resp: 411348
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.2
192 20.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.766 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

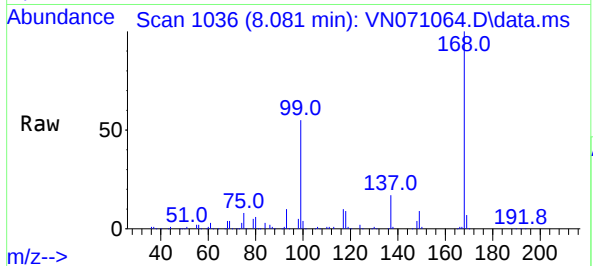
Tgt Ion: 75 Resp: 64944
Ion Ratio Lower Upper
75 100
110 9.1 18.4 55.2#
77 0.0 24.4 36.6#



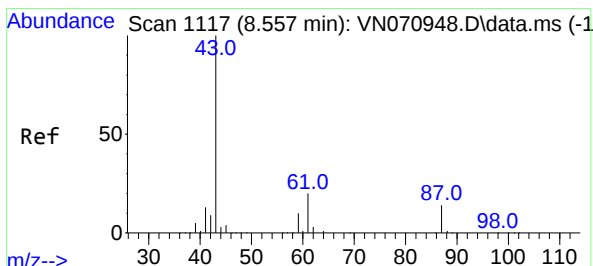
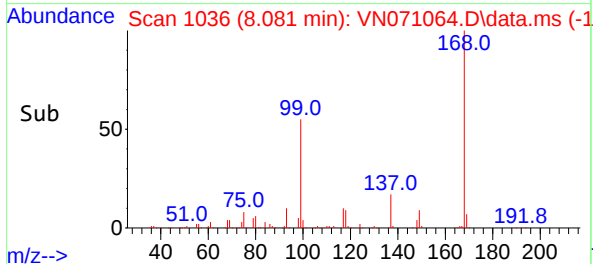
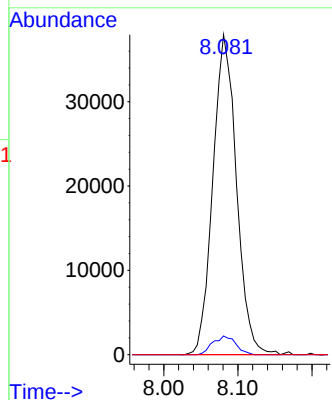


#38
Carbon Tetrachloride
Concen: 6.248 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.118 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

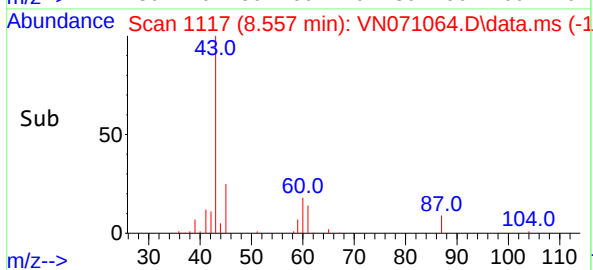
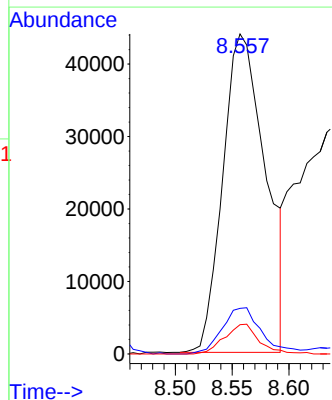
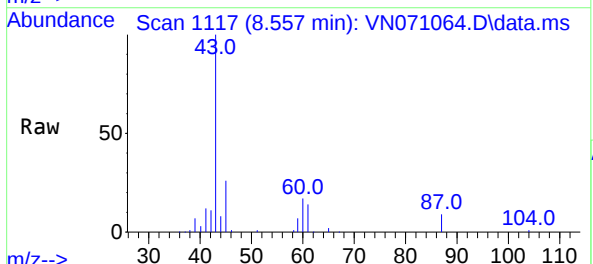


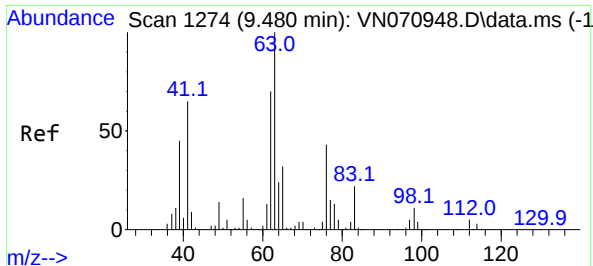
Tgt Ion:117 Resp: 83882
Ion Ratio Lower Upper
117 100
119 5.9 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 4.989 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 43 Resp: 114930
Ion Ratio Lower Upper
43 100
61 13.4 20.4 30.6#
87 7.5 11.2 16.8#

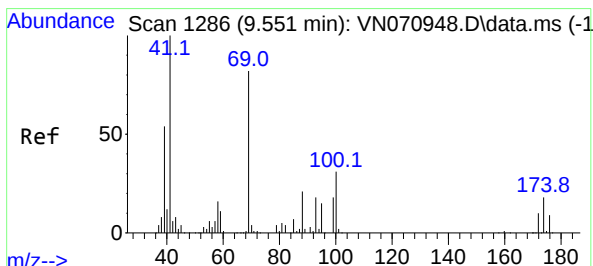
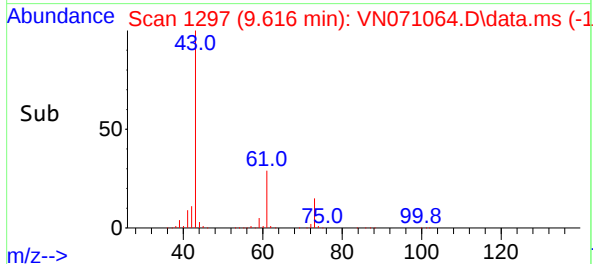
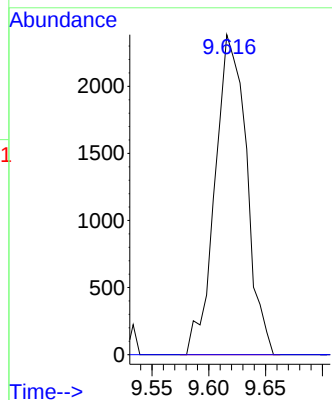
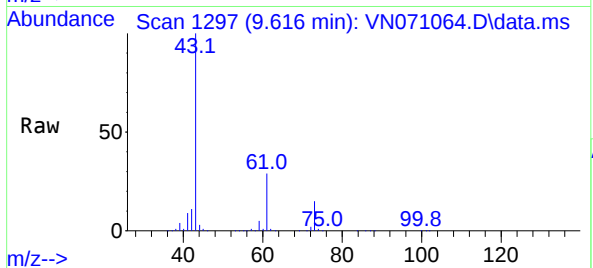




#45
1,2-Dichloropropane
Concen: 0.446 ug/l
RT: 9.616 min Scan# 11
Delta R.T. 0.135 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

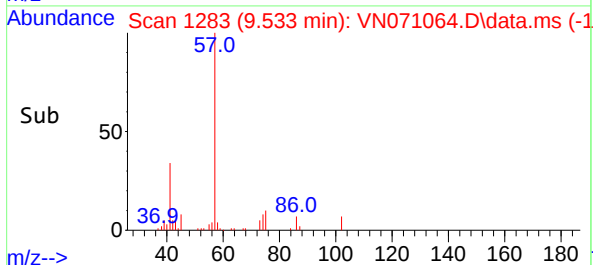
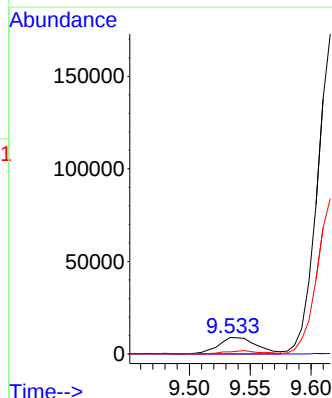
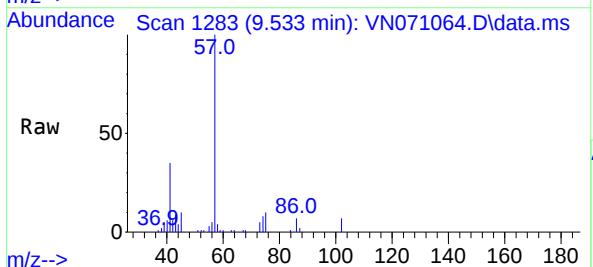
Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

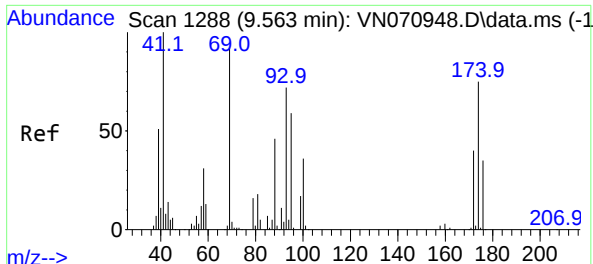
Tgt Ion: 63 Resp: 4602
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#



#48
Methyl methacrylate
Concen: 1.802 ug/l
RT: 9.533 min Scan# 1283
Delta R.T. -0.018 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 41 Resp: 19644
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#

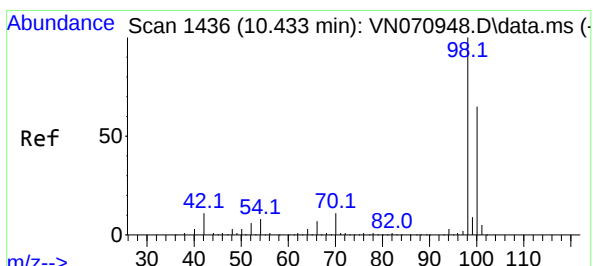
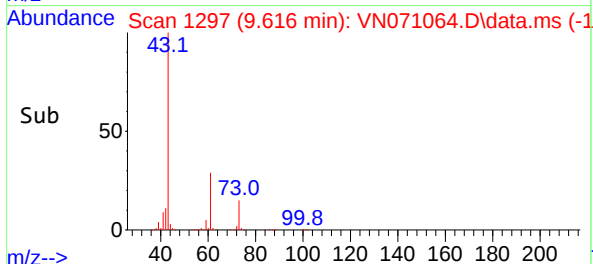
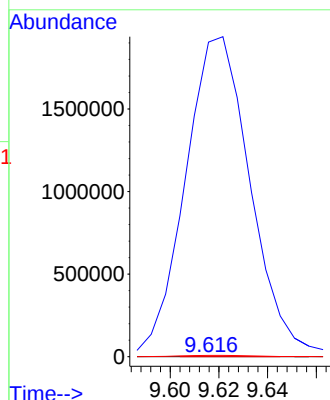
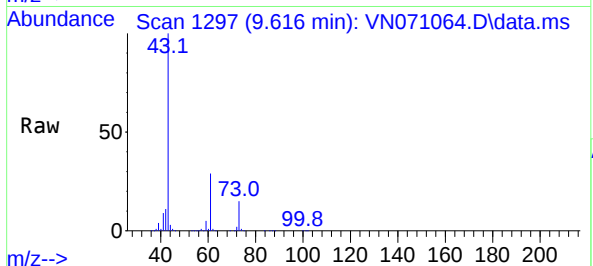




#49
1,4-Dioxane
Concen: 2.158 ug/l
RT: 9.616 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

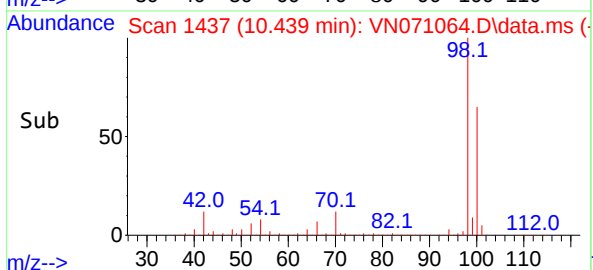
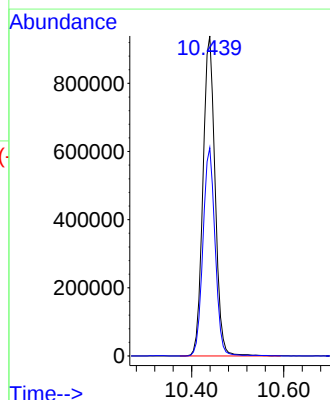
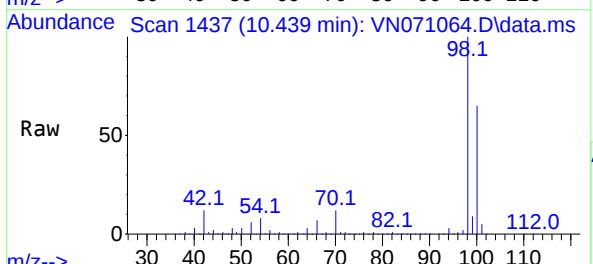
Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

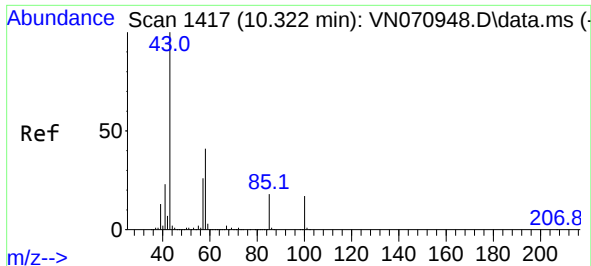
Tgt Ion: 88 Resp: 418
Ion Ratio Lower Upper
88 100
43 882855.5 23.4 35.2#
58 4034.2 50.6 75.8#



#50
Toluene-d8
Concen: 51.616 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 98 Resp: 1724081
Ion Ratio Lower Upper
98 100
100 65.3 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 1.176 ug/l

RT: 10.322 min Scan# 1417

Delta R.T. -0.000 min

Lab File: VN071064.D

Acq: 24 Feb 2022 18:44

Instrument :

MSVOA_N

ClientSampleId :

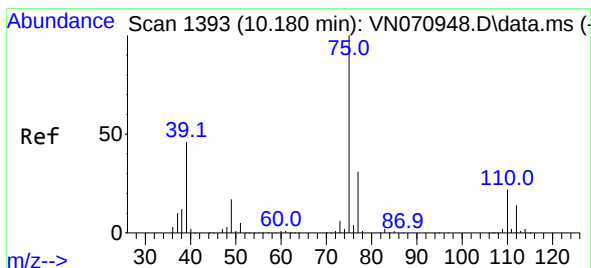
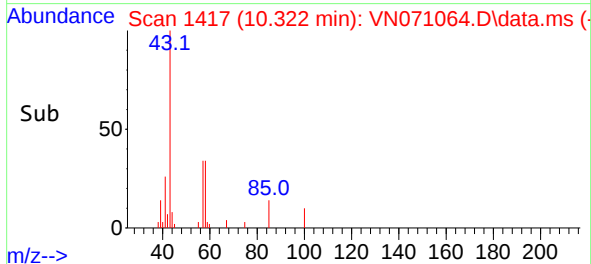
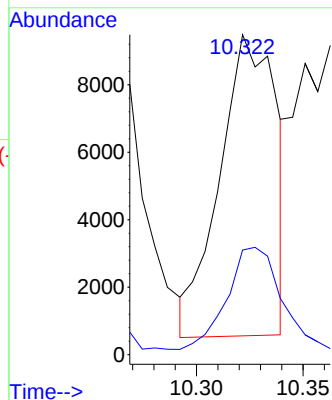
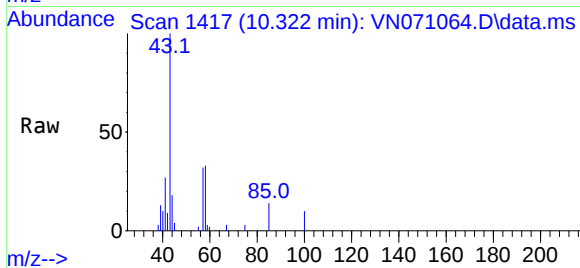
NW-SURFICIAL-SOIL-(NW-SS)

Tgt Ion: 43 Resp: 16483

Ion Ratio Lower Upper

43 100

58 36.4 30.4 45.6



#54

cis-1,3-Dichloropropene

Concen: 6.488 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.059 min

Lab File: VN071064.D

Acq: 24 Feb 2022 18:44

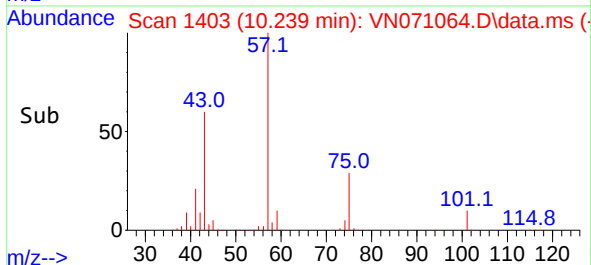
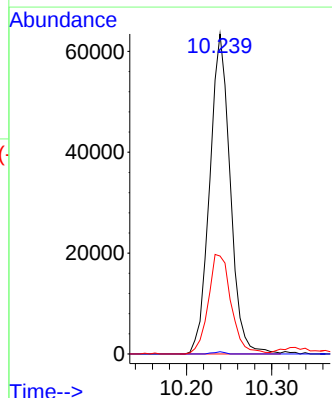
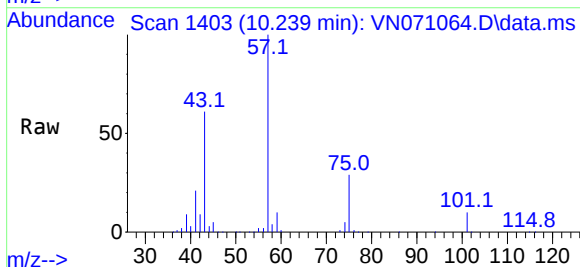
Tgt Ion: 75 Resp: 106392

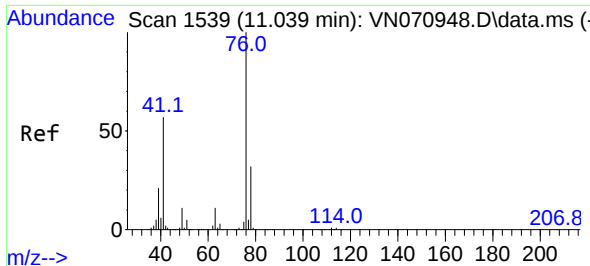
Ion Ratio Lower Upper

75 100

77 0.7 26.4 39.6#

39 30.6 42.5 63.7#

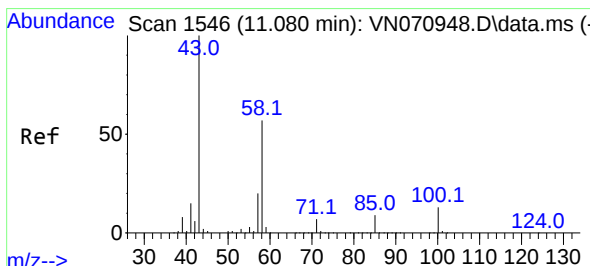
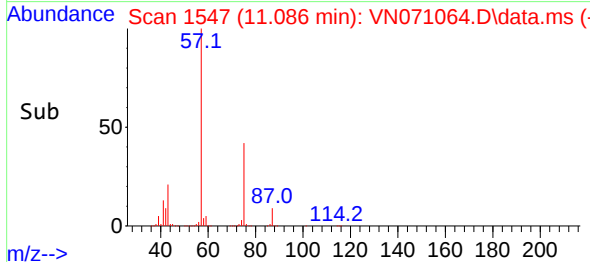
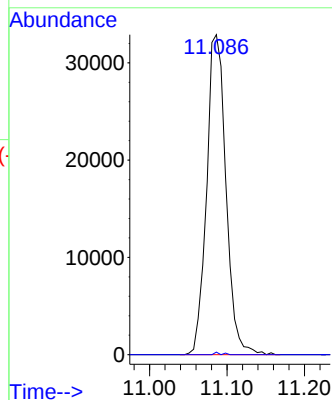
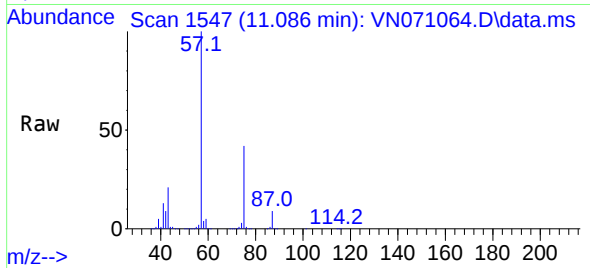




#57
1,3-Dichloropropane
Concen: 3.328 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

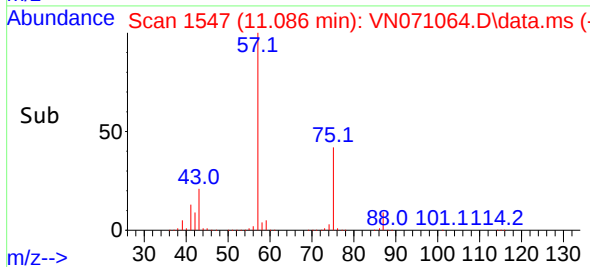
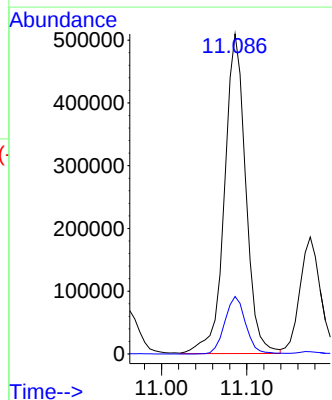
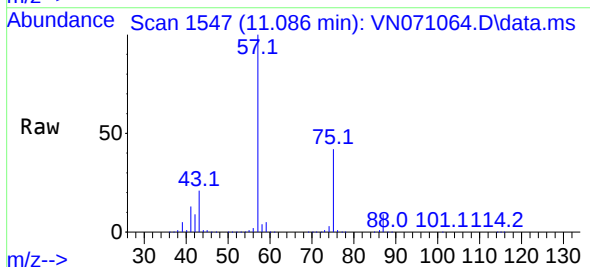
Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

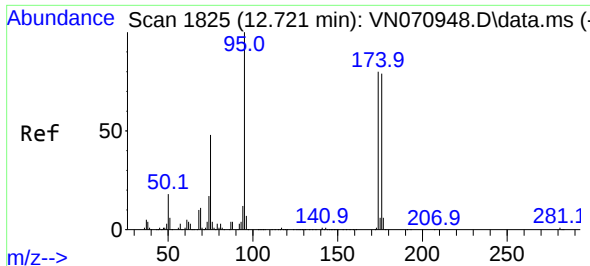
Tgt Ion: 76 Resp: 57075
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#



#59
2-Hexanone
Concen: 91.562 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 43 Resp: 882562
Ion Ratio Lower Upper
43 100
58 17.7 26.9 80.7#

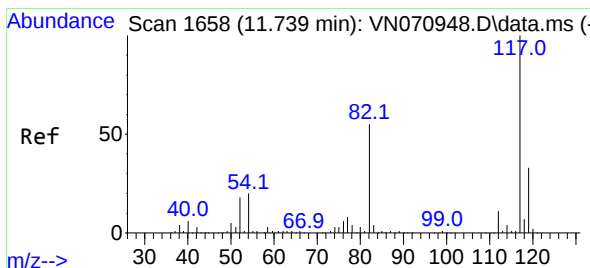
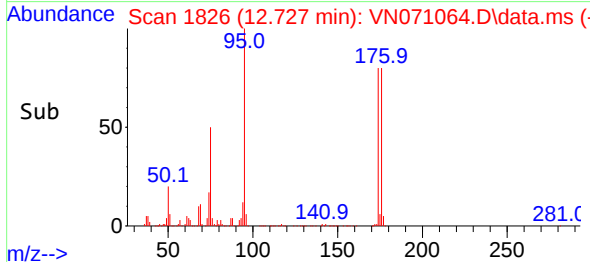
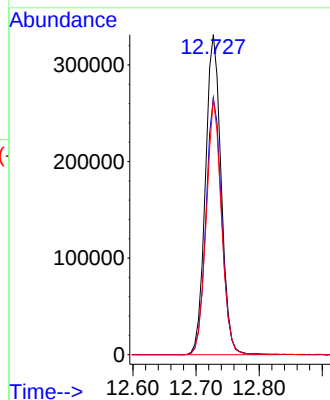
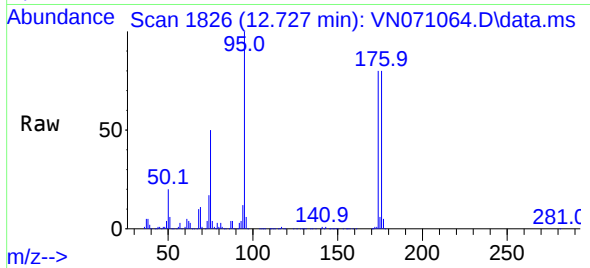




#62
4-Bromofluorobenzene
Concen: 47.763 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

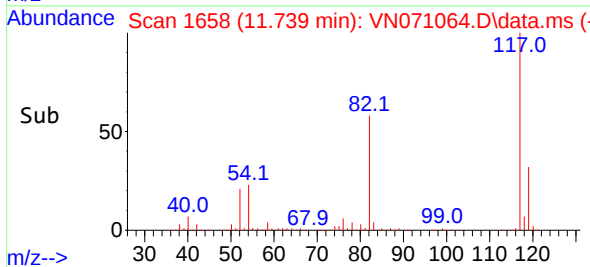
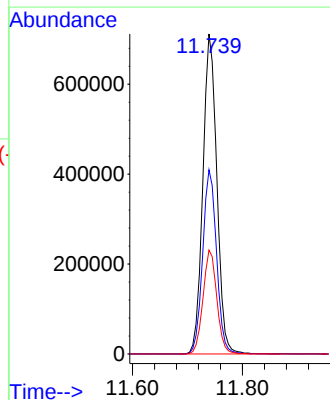
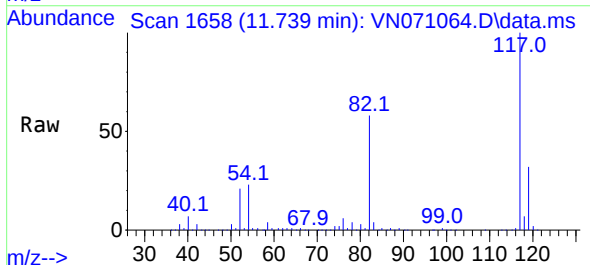
Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

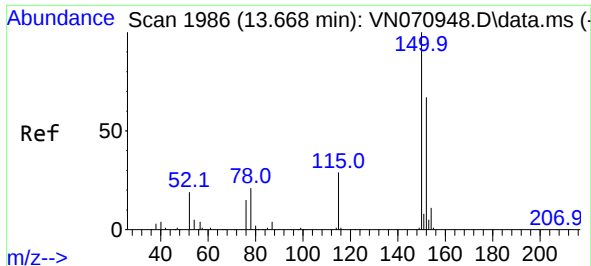
Tgt Ion: 95 Resp: 570260
Ion Ratio Lower Upper
95 100
174 80.5 0.0 187.2
176 77.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion: 117 Resp: 1257020
Ion Ratio Lower Upper
117 100
82 57.5 42.4 63.6
119 32.5 25.4 38.2

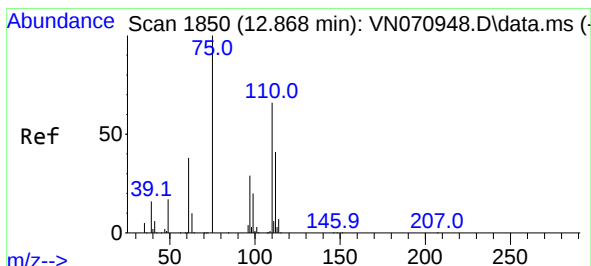
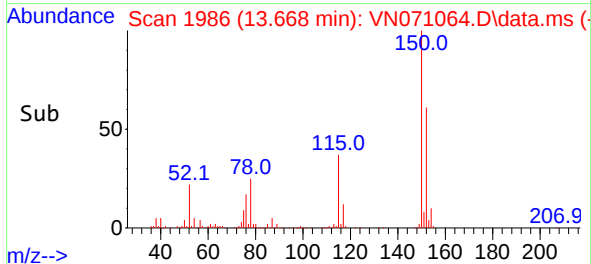
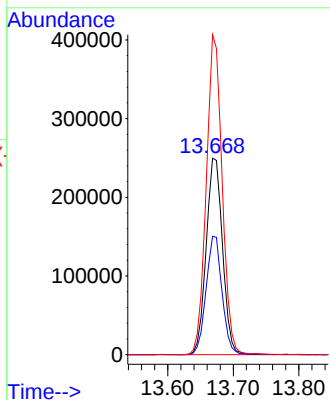
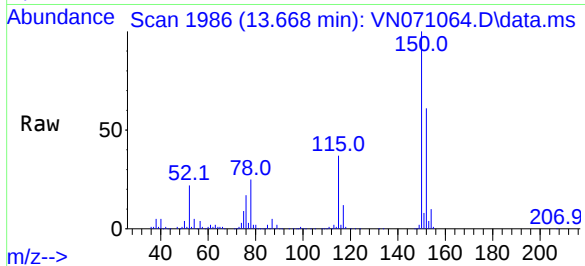




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN071064.D
 Acq: 24 Feb 2022 18:44

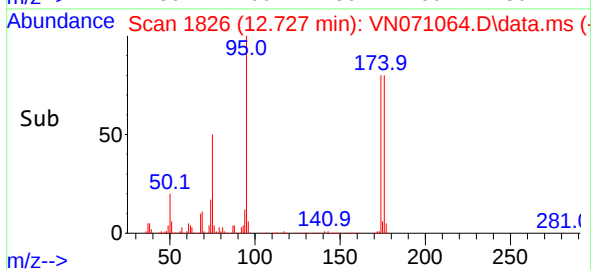
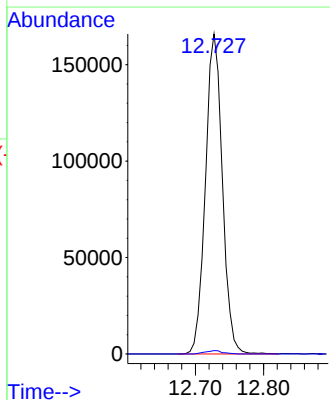
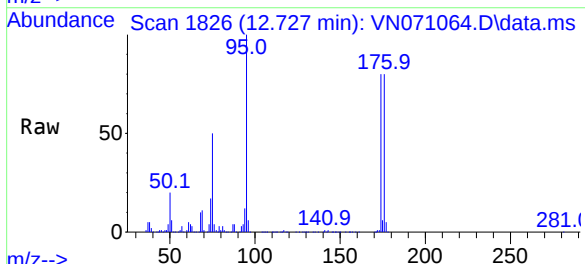
Instrument :
 MSVOA_N
 ClientSampleId :
 NW-SURFICIAL-SOIL-(NW-SS)

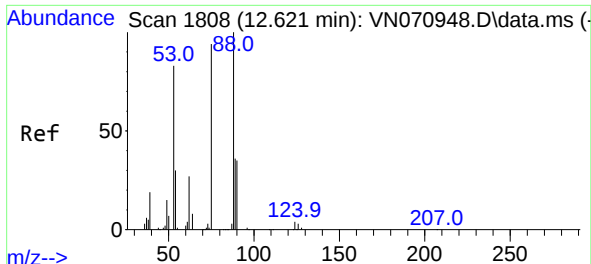
Tgt Ion:152 Resp: 435219
 Ion Ratio Lower Upper
 152 100
 115 59.0 27.5 82.5
 150 157.1 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 28.003 ug/l
 RT: 12.727 min Scan# 1826
 Delta R.T. -0.141 min
 Lab File: VN071064.D
 Acq: 24 Feb 2022 18:44

Tgt Ion: 75 Resp: 286954
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#

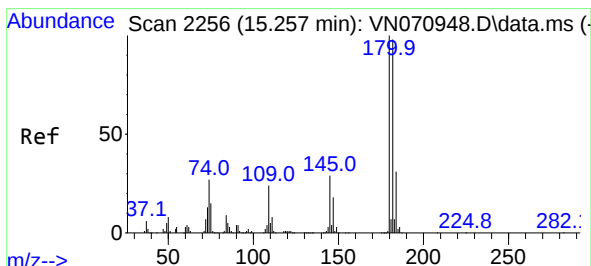
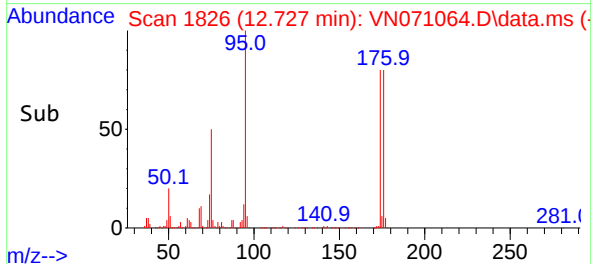
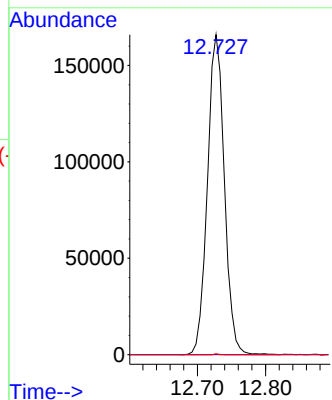
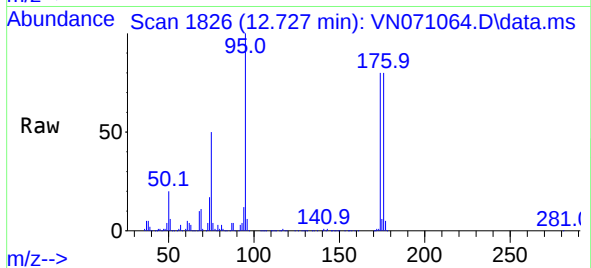




#81
trans-1,4-Dichloro-2-butene
Concen: 90.742 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

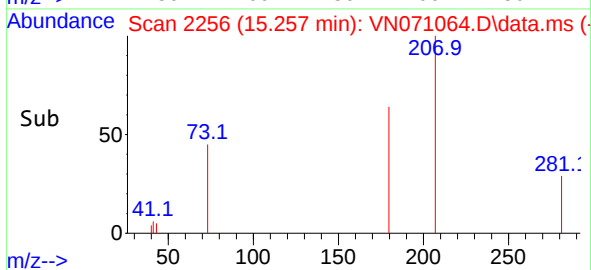
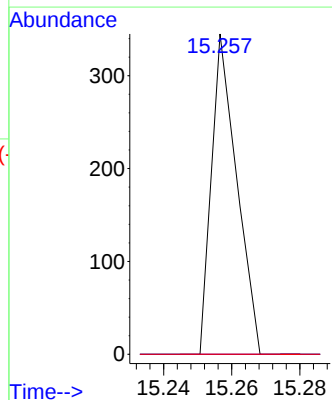
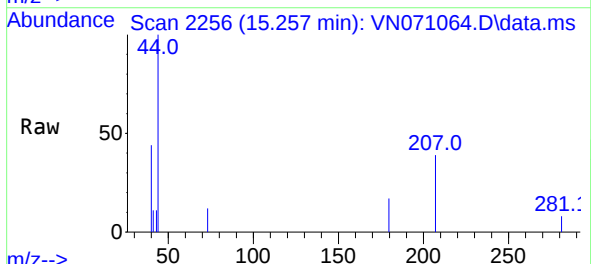
Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

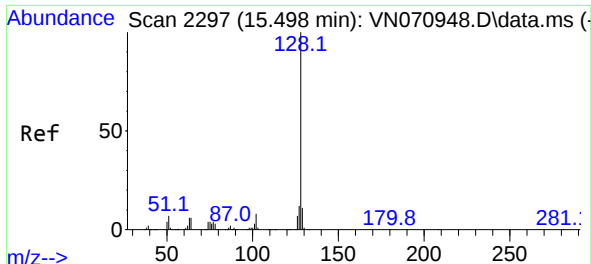
Tgt Ion: 75 Resp: 286954
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.1 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 2.020 ug/l
RT: 15.257 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion:180 Resp: 178
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.9#
145 0.0 14.5 43.5#

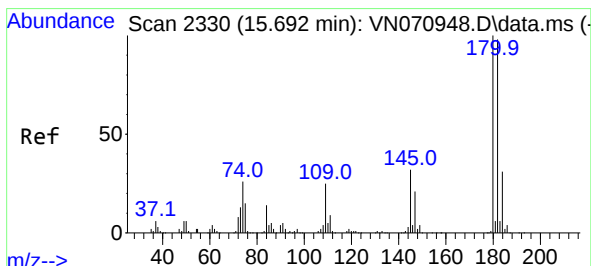
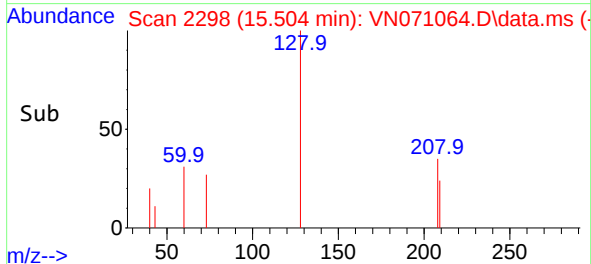
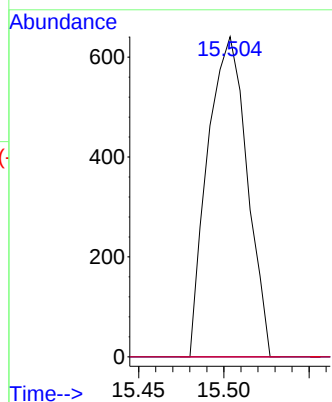
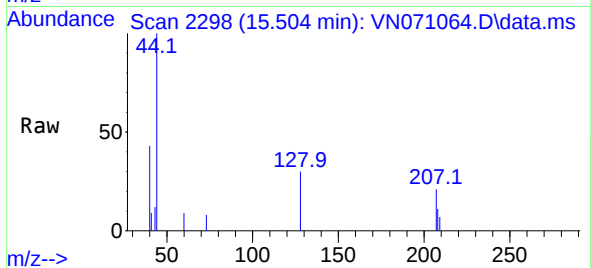




#95
Naphthalene
Concen: 5.037 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Instrument :
MSVOA_N
ClientSampleId :
NW-SURFICIAL-SOIL-(NW-SS)

Tgt Ion:128 Resp: 1033
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.524 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN071064.D
Acq: 24 Feb 2022 18:44

Tgt Ion:180 Resp: 65
Ion Ratio Lower Upper
180 100
182 86.2 47.4 142.2
145 0.0 15.0 45.1#

