

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD040522\
 Data File : VD072541.D
 Acq On : 05 Apr 2022 18:07
 Operator : VA/SY
 Sample : N2267-01
 Misc : 4.82G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LINDEN-SOUTH

Quant Time: Apr 06 01:15:08 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 02:44:36 2022
 Response via : Initial Calibration

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

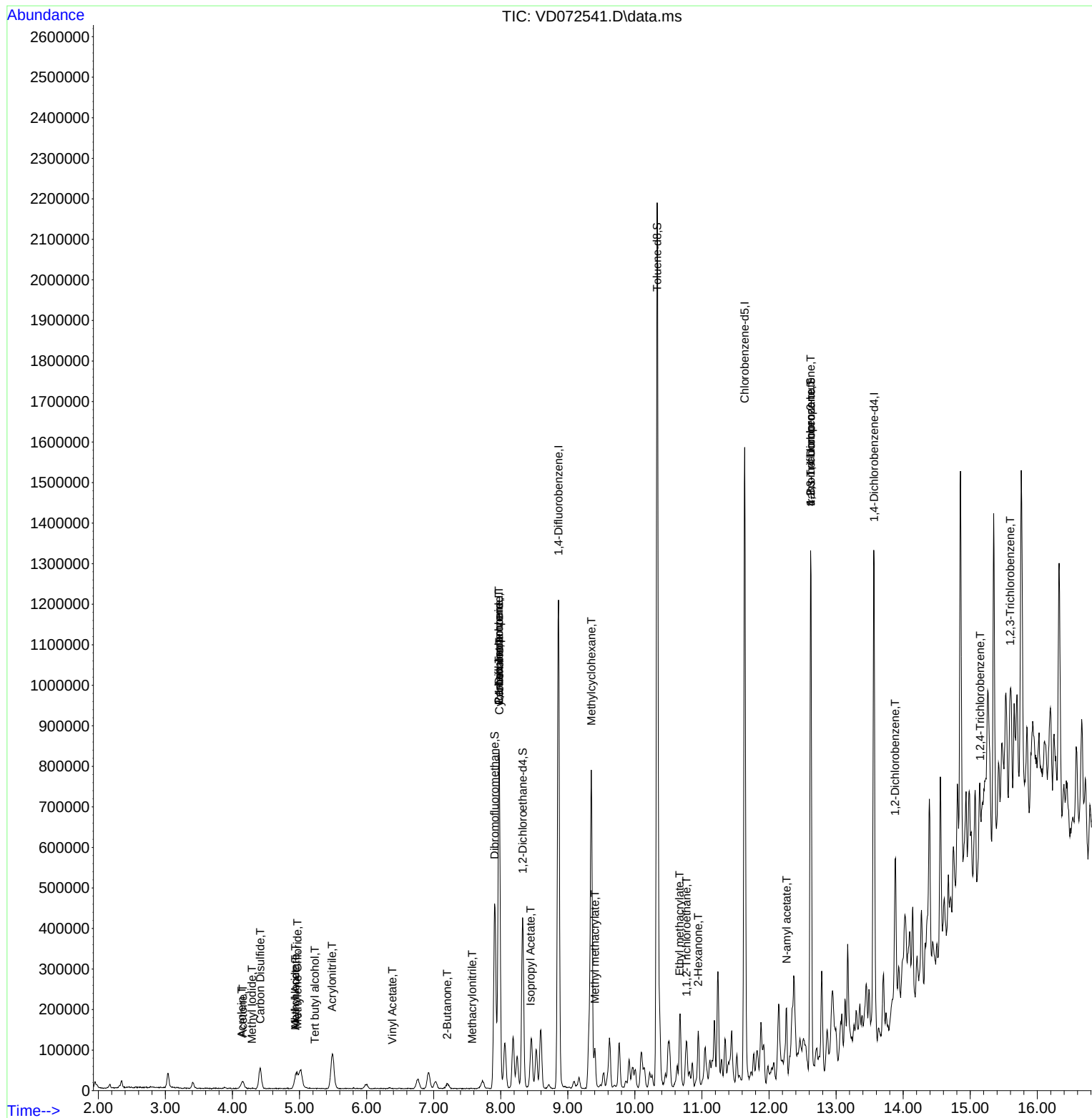
Internal Standards						
1) Pentafluorobenzene	7.973	168	564985	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1049027	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	915745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	337043	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	340809	49.865	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.740%		
35) Dibromofluoromethane	7.909	113	335872	41.199	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	82.400%		
50) Toluene-d8	10.332	98	1274117	44.961	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	89.920%		
62) 4-Bromofluorobenzene	12.620	95	400903	36.224	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	72.440%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.291	142	593	3.822	ug/l #	38
11) Tert butyl alcohol	5.226	59	835	2.313	ug/l #	74
13) Acrolein	4.138	56	2465	15.390	ug/l #	51
14) Allyl chloride	4.938	41	9844	2.207	ug/l #	73
15) Acrylonitrile	5.485	53	4320	2.987	ug/l #	33
16) Acetone	4.156	43	24108	18.917	ug/l #	85
17) Carbon Disulfide	4.415	76	108233	12.760	ug/l	99
18) Methyl Acetate	4.938	43	20515	5.714	ug/l #	55
20) Methylene Chloride	4.968	84	11045	1.456	ug/l #	75
23) Vinyl Acetate	6.385	43	65	6.295	ug/l #	75
25) 2-Butanone	7.203	43	8590	4.874	ug/l #	88
31) Cyclohexane	7.979	56	43714	4.892	ug/l #	55
36) 1,1-Dichloropropene	7.973	75	44658	5.314	ug/l #	55
38) Carbon Tetrachloride	7.973	117	59247	5.275	ug/l #	18
39) Methylcyclohexane	9.350	83	322894	27.959	ug/l	96
41) Methacrylonitrile	7.573	41	475	1.840	ug/l #	53
43) Isopropyl Acetate	8.444	43	25127	3.032	ug/l #	54
48) Methyl methacrylate	9.403	41	14692	3.652	ug/l #	19
55) 1,1,2-Trichloroethane	10.767	97	41098	6.524	ug/l #	20
56) Ethyl methacrylate	10.667	69	19128	3.601	ug/l #	47
59) 2-Hexanone	10.944	43	47517	15.716	ug/l #	33
74) N-amyl acetate	12.261	43	38819	6.797	ug/l #	56
76) 1,2,3-Trichloropropane	12.620	75	200356	54.504	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	200356	133.742	ug/l #	8
91) 1,2-Dichlorobenzene	13.879	146	18478	1.657	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.149	180	18785	2.718	ug/l #	50
96) 1,2,3-Trichlorobenzene	15.596	180	7996	1.326	ug/l #	68

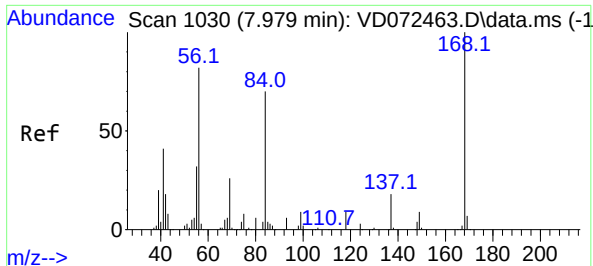
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 06 01:15:08 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 30 02:44:36 2022
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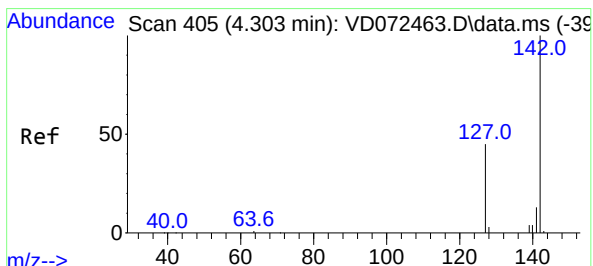
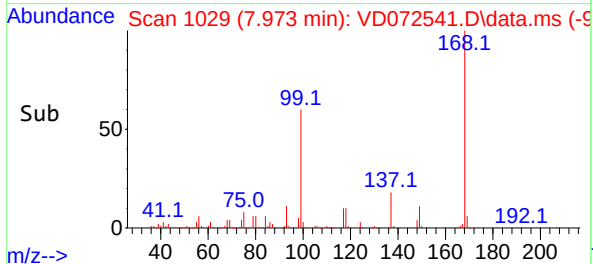
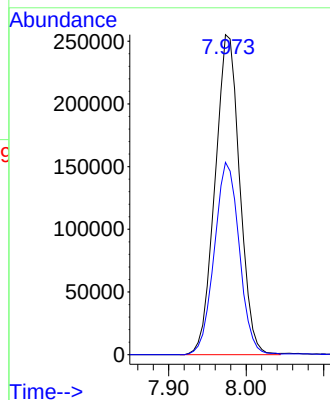
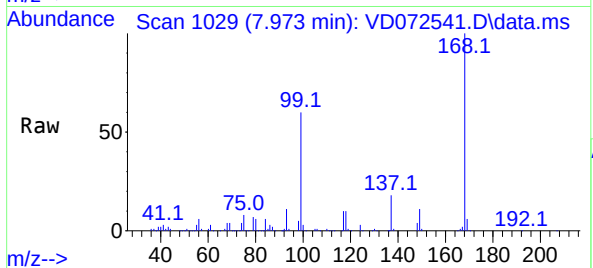




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

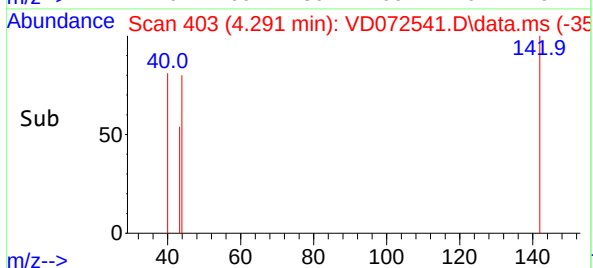
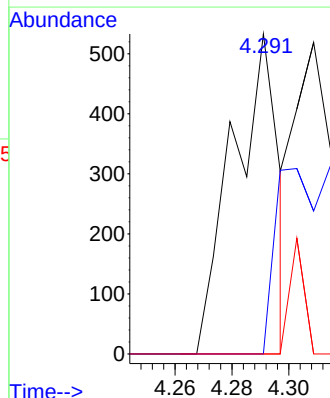
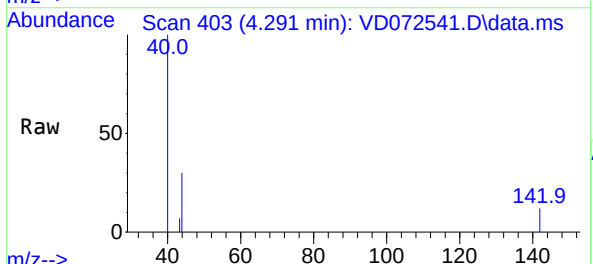
Instrument :
MSVOA_D
ClientSampleId :
LINDEN-SOUTH

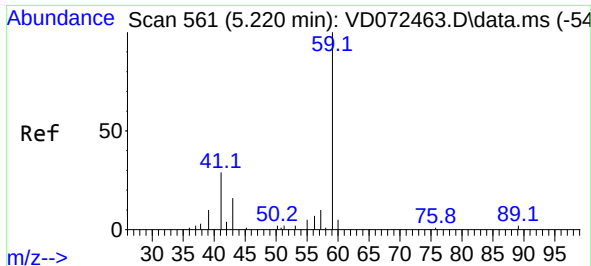
Tgt Ion:168 Resp: 564985
Ion Ratio Lower Upper
168 100
99 60.0 49.8 74.6



#10
Methyl Iodide
Concen: 3.822 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion:142 Resp: 593
Ion Ratio Lower Upper
142 100
127 0.0 37.3 55.9#
141 0.0 11.7 17.5#

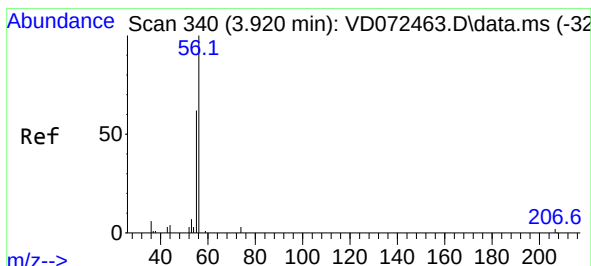
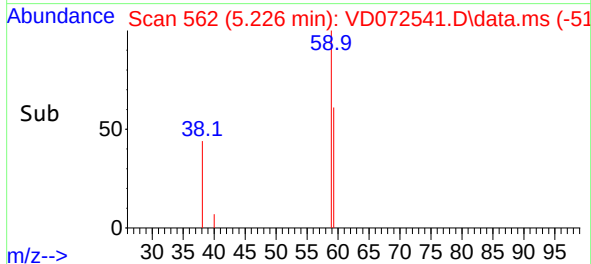
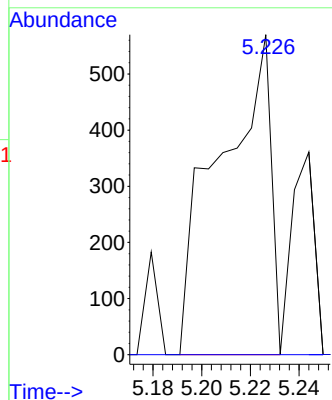
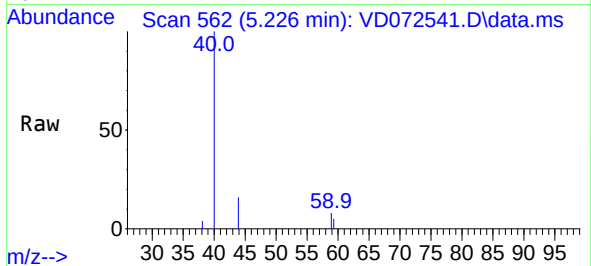




#11
Tert butyl alcohol
Concen: 2.313 ug/l
RT: 5.226 min Scan# 50
Delta R.T. 0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

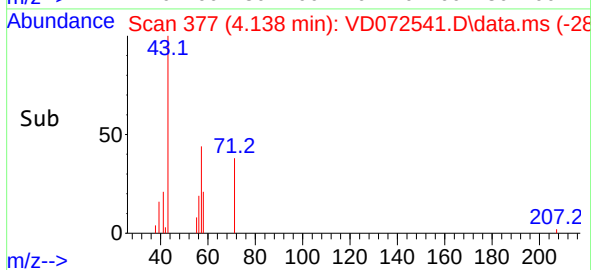
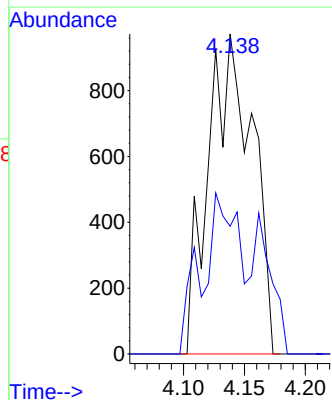
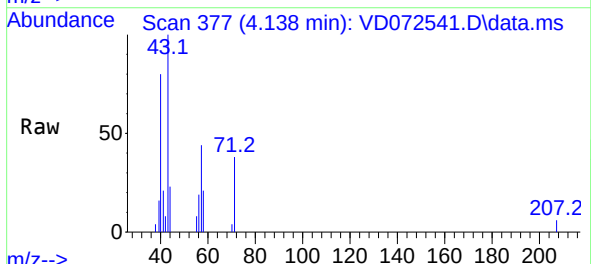
Instrument :
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ClientSampleId :
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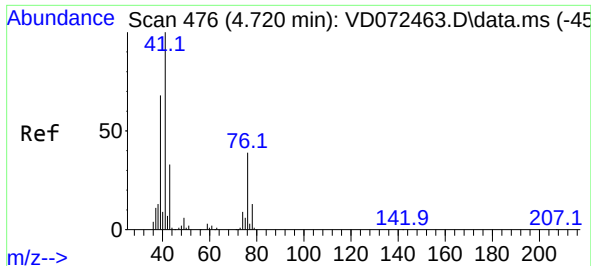
Tgt Ion: 59 Resp: 835
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#13
Acrolein
Concen: 15.390 ug/l
RT: 4.138 min Scan# 377
Delta R.T. 0.218 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 56 Resp: 2465
Ion Ratio Lower Upper
56 100
55 30.9 57.1 85.7#

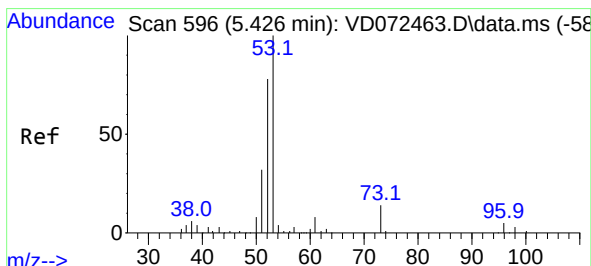
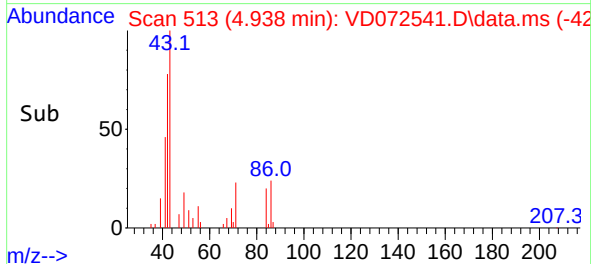
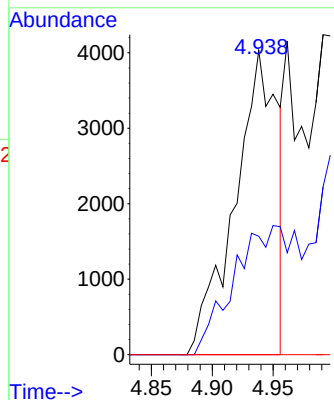
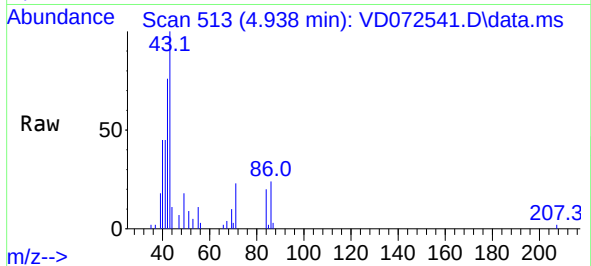




#14
 Allyl chloride
 Concen: 2.207 ug/l
 RT: 4.938 min Scan# 51
 Delta R.T. 0.218 min
 Lab File: VD072541.D
 Acq: 05 Apr 2022 18:07

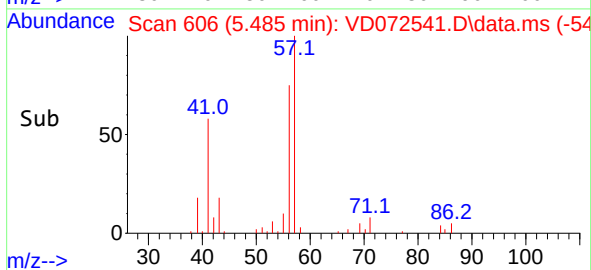
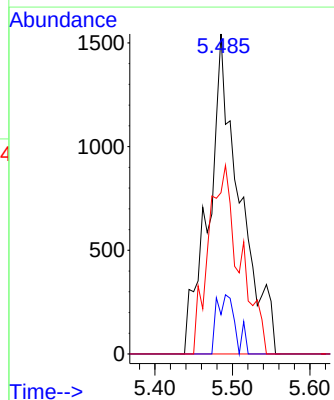
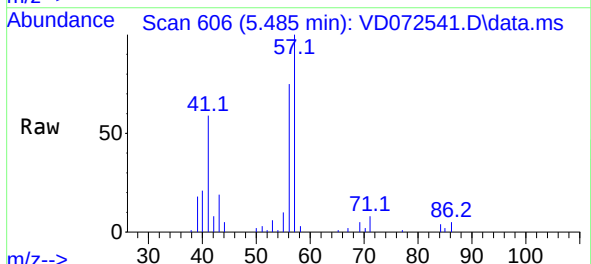
Instrument :
 MSVOA_D
 ClientSampleId :
 LINDEN-SOUTH

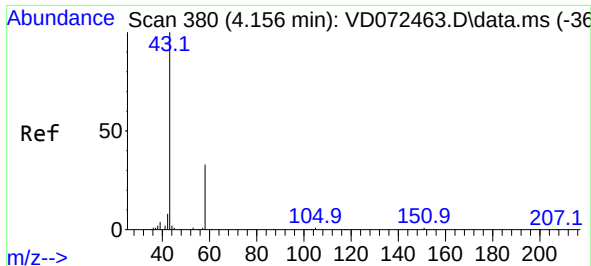
Tgt Ion: 41 Resp: 9844
 Ion Ratio Lower Upper
 41 100
 39 62.2 59.3 88.9
 76 0.0 25.7 38.5#



#15
 Acrylonitrile
 Concen: 2.987 ug/l
 RT: 5.485 min Scan# 606
 Delta R.T. 0.059 min
 Lab File: VD072541.D
 Acq: 05 Apr 2022 18:07

Tgt Ion: 53 Resp: 4320
 Ion Ratio Lower Upper
 53 100
 52 10.9 67.2 100.8#
 51 59.1 30.3 45.5#

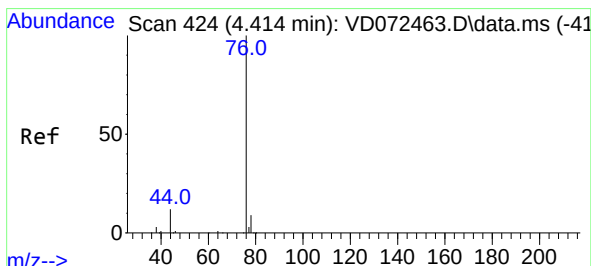
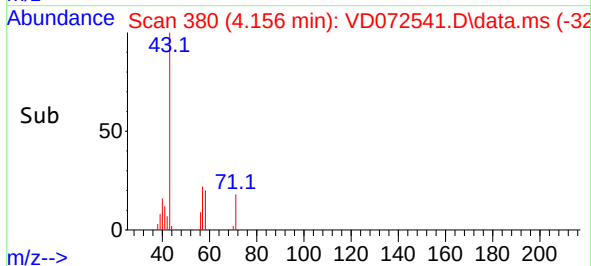
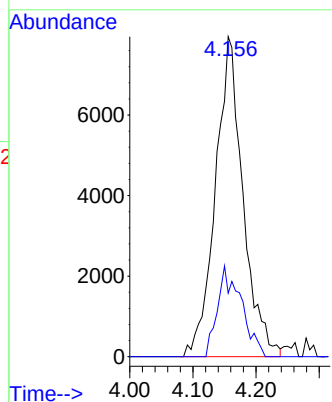
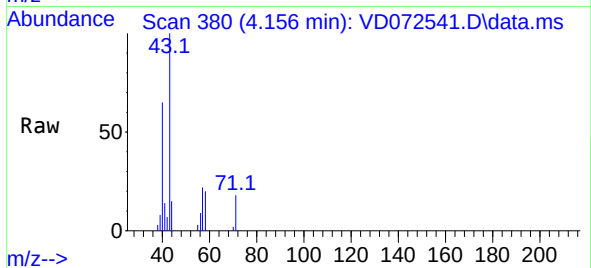




#16
Acetone
Concen: 18.917 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

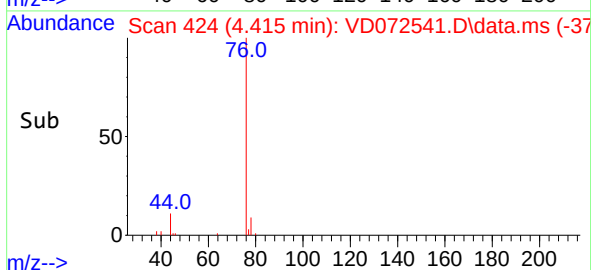
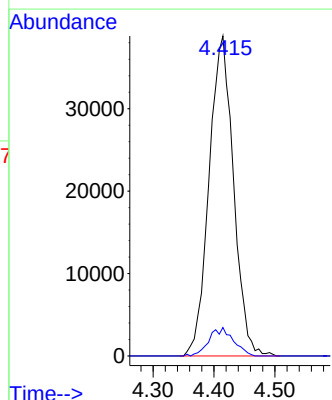
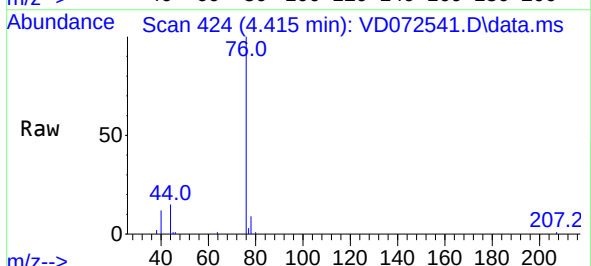
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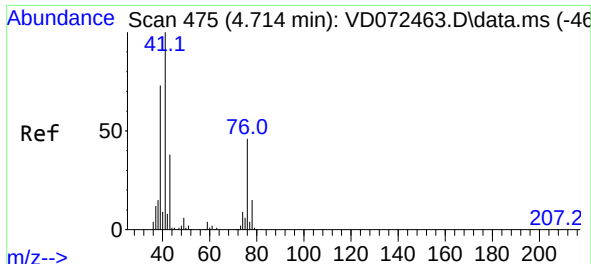
Tgt Ion: 43 Resp: 24108
Ion Ratio Lower Upper
43 100
58 19.8 22.1 33.1#



#17
Carbon Disulfide
Concen: 12.760 ug/l
RT: 4.415 min Scan# 424
Delta R.T. 0.001 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 76 Resp: 108233
Ion Ratio Lower Upper
76 100
78 8.9 7.5 11.3





#18

Methyl Acetate

Concen: 5.714 ug/l

RT: 4.938 min Scan# 513

Delta R.T. 0.224 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

Instrument :

MSVOA_D

ClientSampleId :

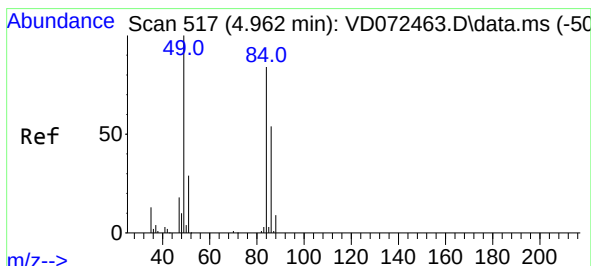
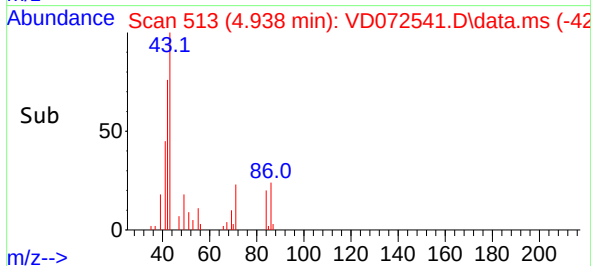
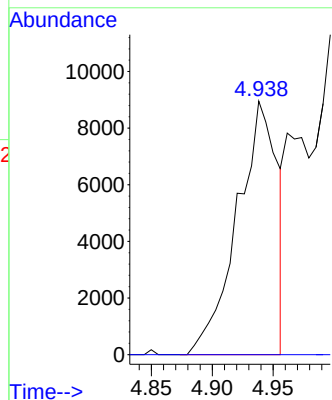
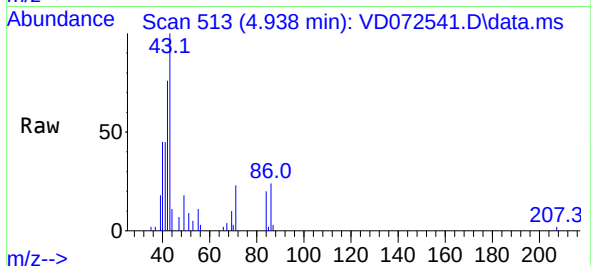
LINDEN-SOUTH

Tgt Ion: 43 Resp: 20515

Ion Ratio Lower Upper

43 100

74 0.0 16.7 25.1#



#20

Methylene Chloride

Concen: 1.456 ug/l

RT: 4.968 min Scan# 518

Delta R.T. 0.006 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

Tgt Ion: 84 Resp: 11045

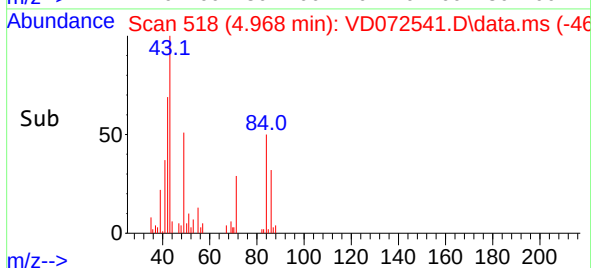
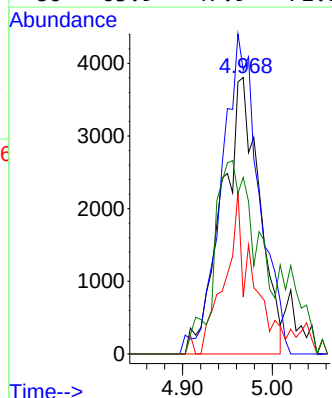
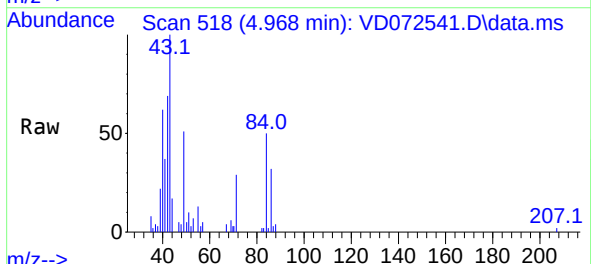
Ion Ratio Lower Upper

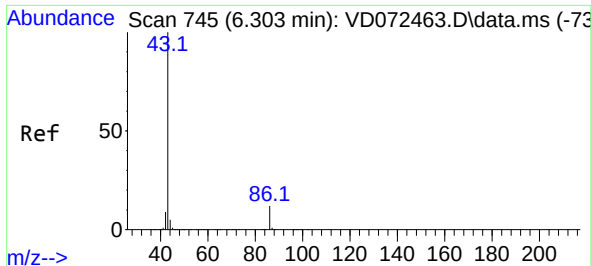
84 100

49 102.6 112.8 169.2#

51 20.6 32.6 48.8#

86 63.9 47.9 71.9

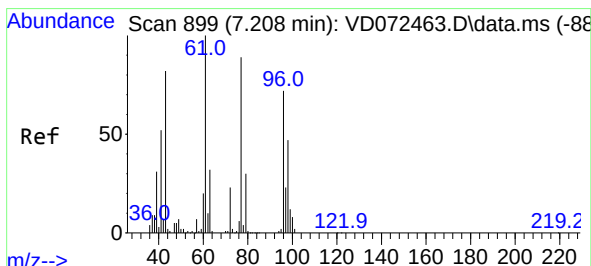
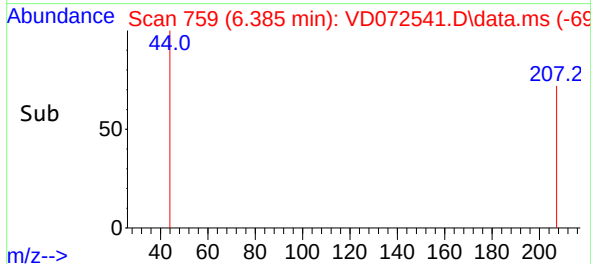
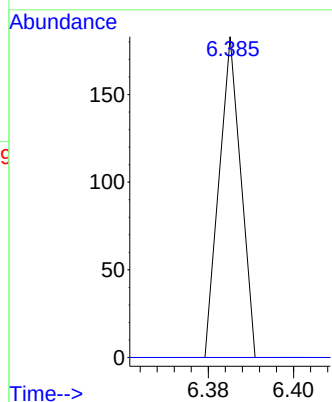
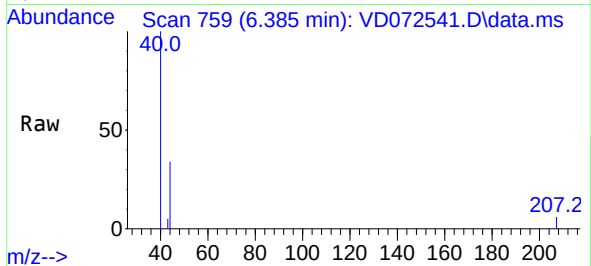




#23
 Vinyl Acetate
 Concen: 6.295 ug/l
 RT: 6.385 min Scan# 71
 Delta R.T. 0.082 min
 Lab File: VD072541.D
 Acq: 05 Apr 2022 18:07

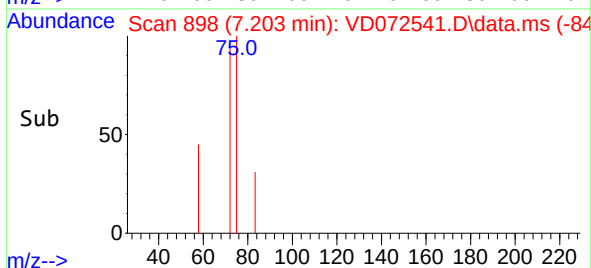
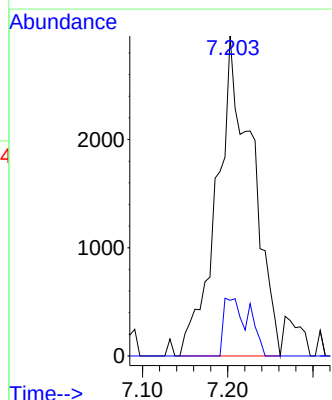
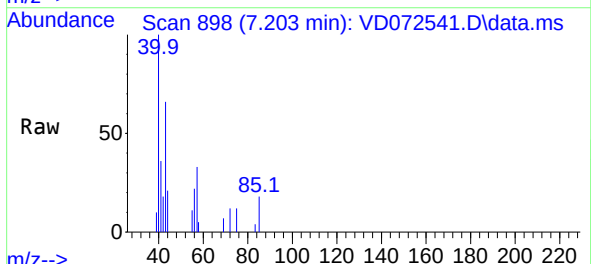
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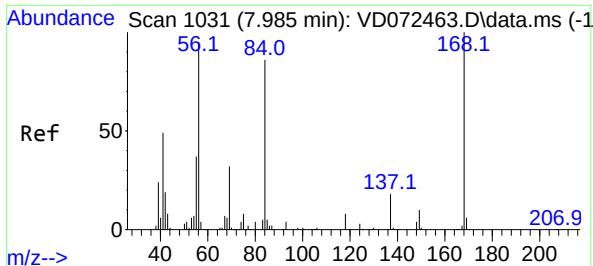
Tgt Ion: 43 Resp: 65
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 4.874 ug/l
 RT: 7.203 min Scan# 898
 Delta R.T. -0.006 min
 Lab File: VD072541.D
 Acq: 05 Apr 2022 18:07

Tgt Ion: 43 Resp: 8590
 Ion Ratio Lower Upper
 43 100
 72 17.4 18.6 27.8#

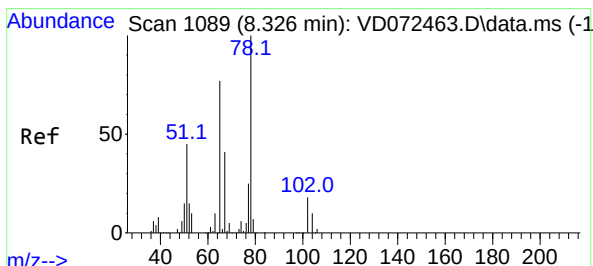
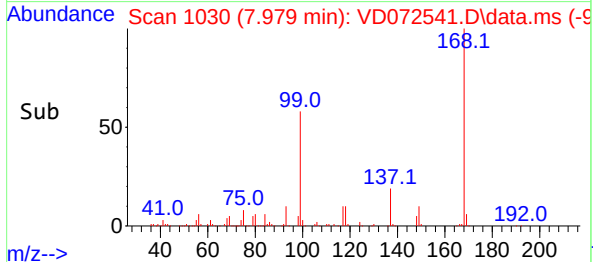
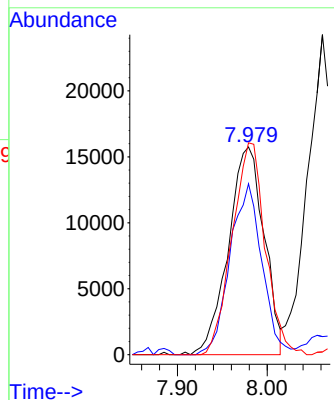
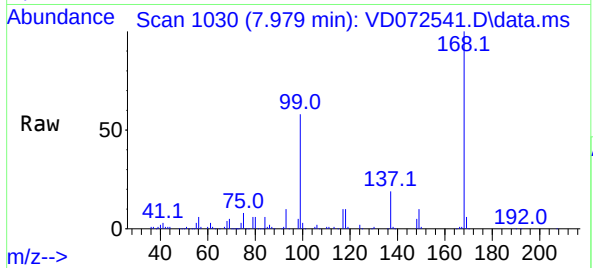




#31
Cyclohexane
Concen: 4.892 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

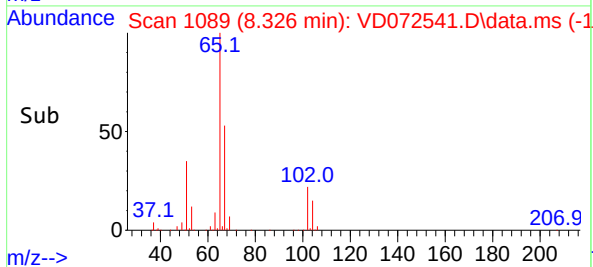
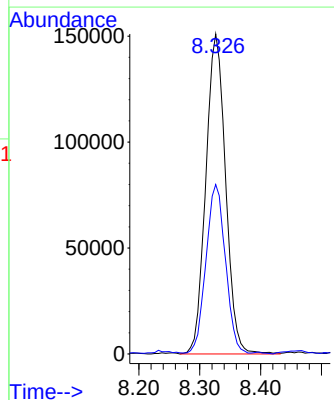
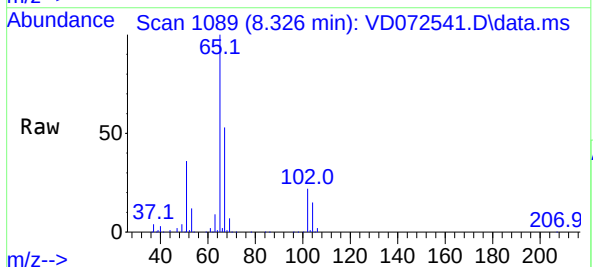
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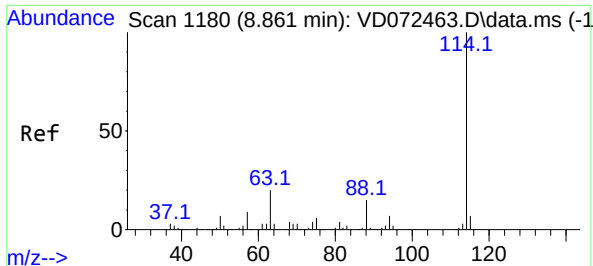
Tgt Ion: 56 Resp: 43714
Ion Ratio Lower Upper
56 100
69 82.3 25.4 38.2#
84 102.0 63.0 94.4#



#33
1,2-Dichloroethane-d4
Concen: 49.865 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 65 Resp: 340809
Ion Ratio Lower Upper
65 100
67 51.4 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

Instrument :

MSVOA_D

ClientSampleId :

LINDEN-SOUTH

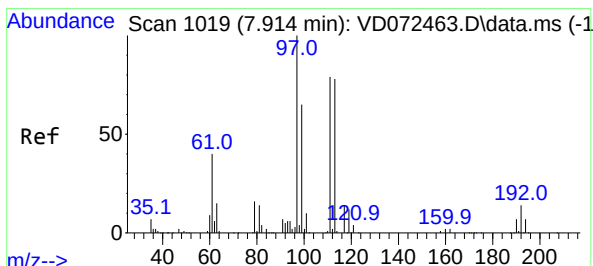
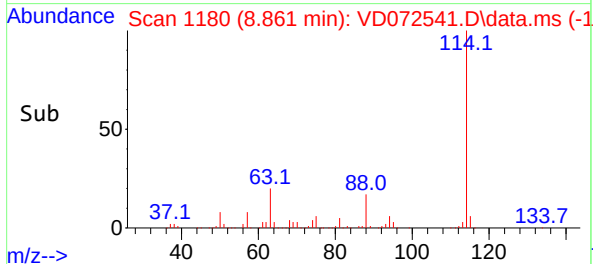
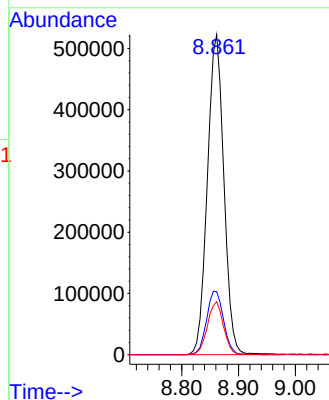
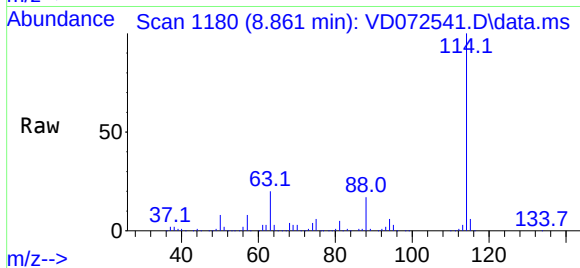
Tgt Ion:114 Resp: 1049027

Ion Ratio Lower Upper

114 100

63 19.7 0.0 46.6

88 16.6 0.0 33.2



#35

Dibromofluoromethane

Concen: 41.199 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

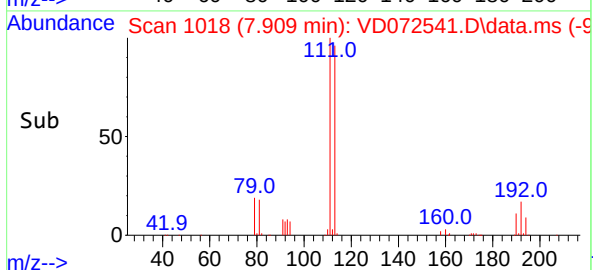
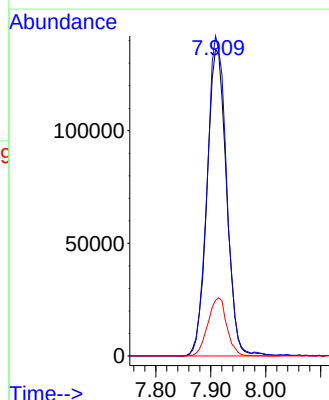
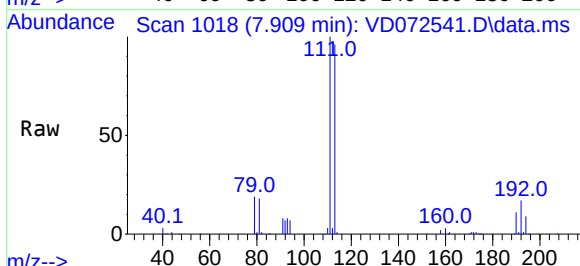
Tgt Ion:113 Resp: 335872

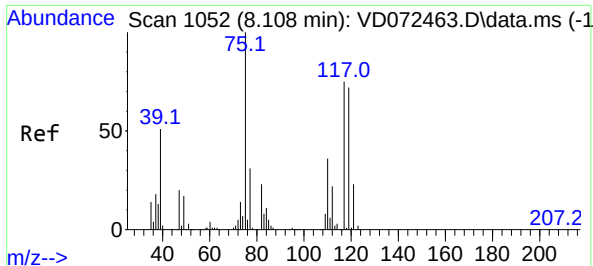
Ion Ratio Lower Upper

113 100

111 103.9 83.8 125.6

192 18.4 14.6 21.8





#36

1,1-Dichloropropene

Concen: 5.314 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

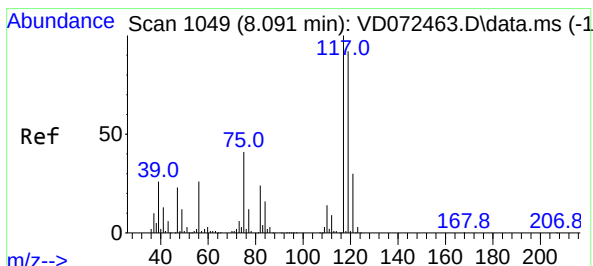
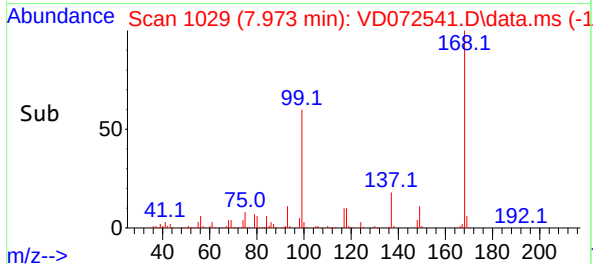
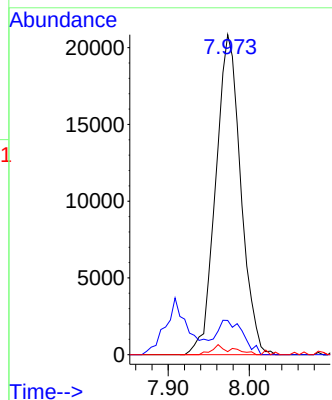
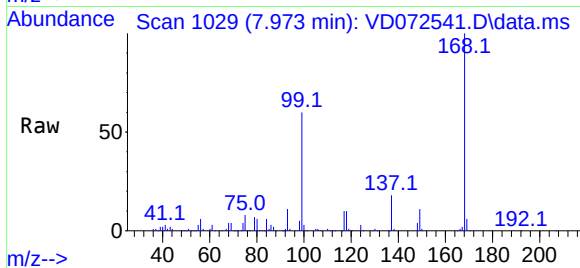
Instrument :

MSVOA_D

ClientSampleId :

LINDEN-SOUTH

Tgt Ion:	75	Resp:	44658
Ion	Ratio	Lower	Upper
75	100		
110	11.3	16.4	49.1#
77	1.5	24.2	36.2#



#38

Carbon Tetrachloride

Concen: 5.275 ug/l

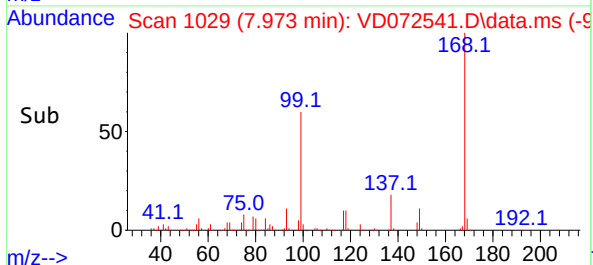
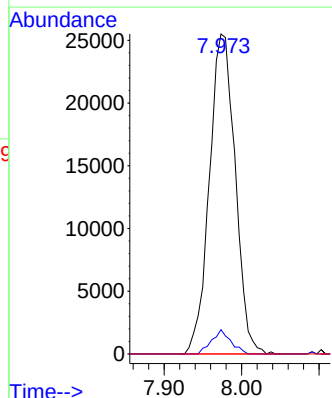
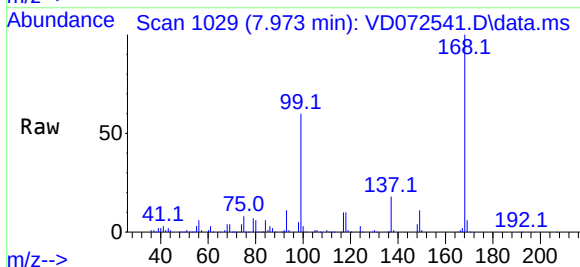
RT: 7.973 min Scan# 1029

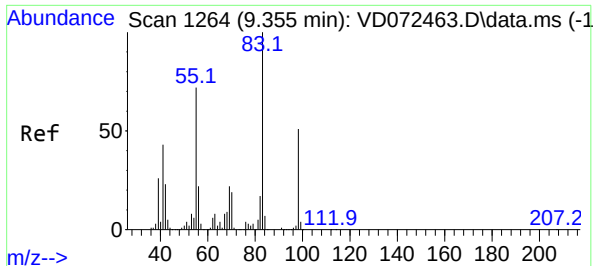
Delta R.T. -0.117 min

Lab File: VD072541.D

Acq: 05 Apr 2022 18:07

Tgt Ion:	117	Resp:	59247
Ion	Ratio	Lower	Upper
117	100		
119	7.6	75.8	113.6#
121	0.0	24.5	36.7#

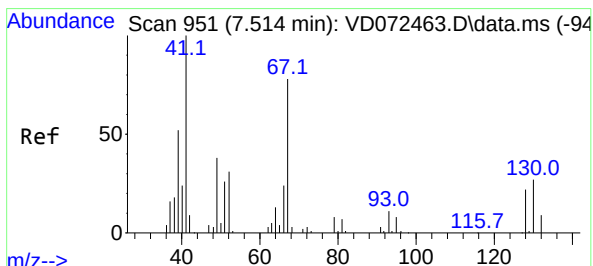
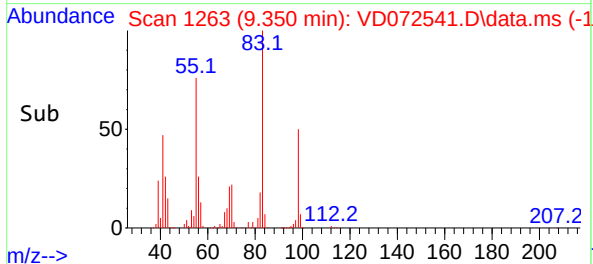
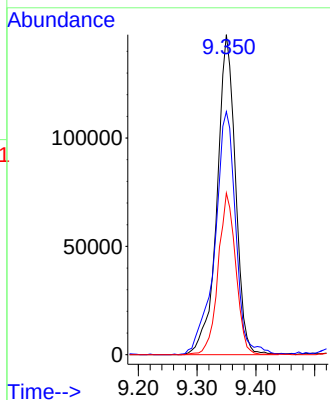
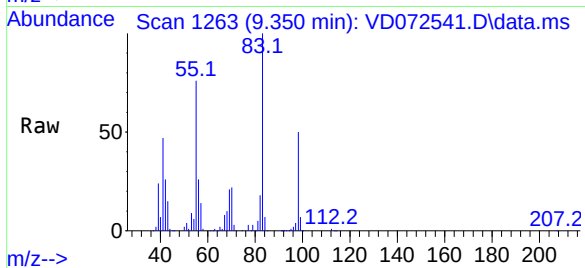




#39
Methylcyclohexane
Concen: 27.959 ug/l
RT: 9.350 min Scan# 11
Delta R.T. -0.005 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

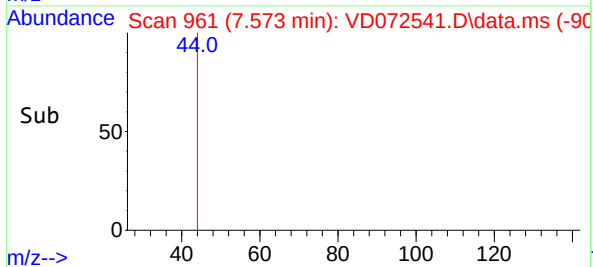
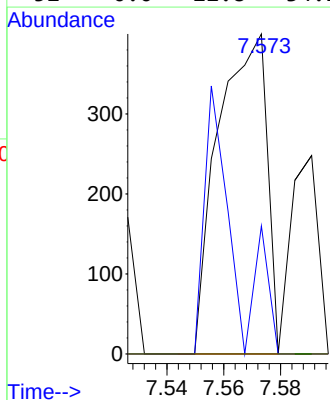
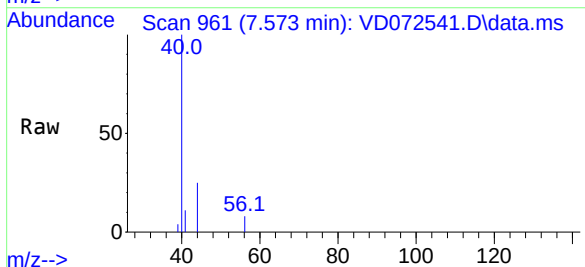
Instrument :
MSVOA_D
ClientSampleId :
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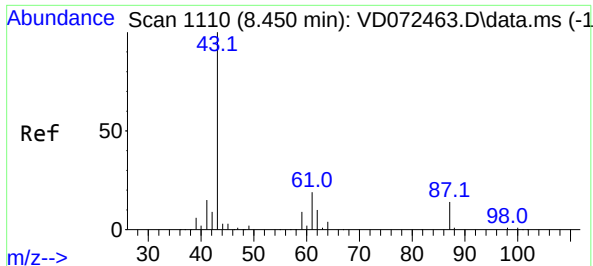
Tgt Ion: 83 Resp: 322894
Ion Ratio Lower Upper
83 100
55 75.9 63.2 94.8
98 50.5 38.2 57.4



#41
Methacrylonitrile
Concen: 1.840 ug/l
RT: 7.573 min Scan# 961
Delta R.T. 0.059 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 41 Resp: 475
Ion Ratio Lower Upper
41 100
39 50.1 44.6 67.0
67 0.0 48.2 72.4#
52 0.0 22.8 34.2#

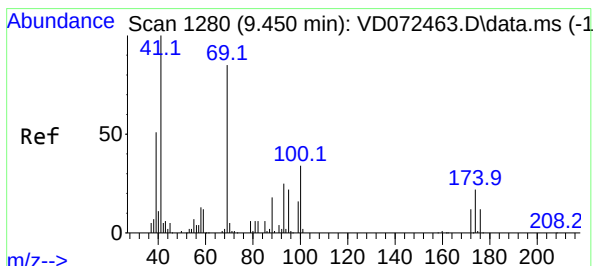
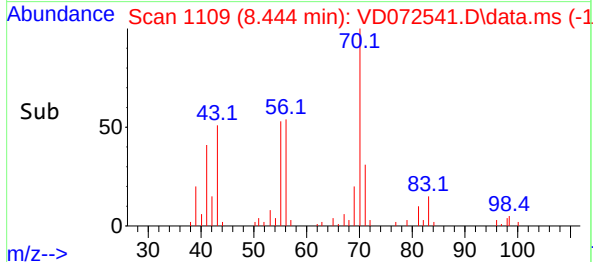
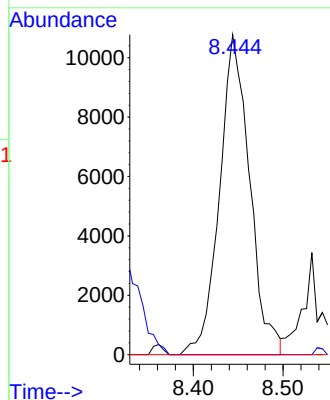
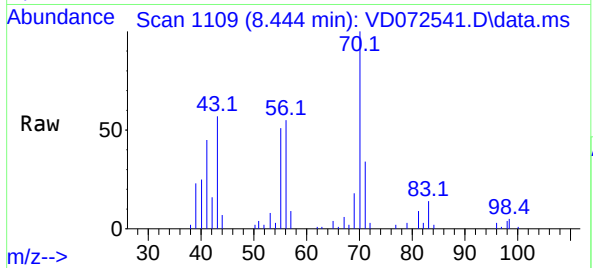




#43
Isopropyl Acetate
Concen: 3.032 ug/l
RT: 8.444 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

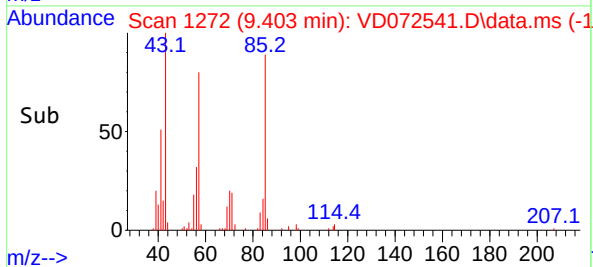
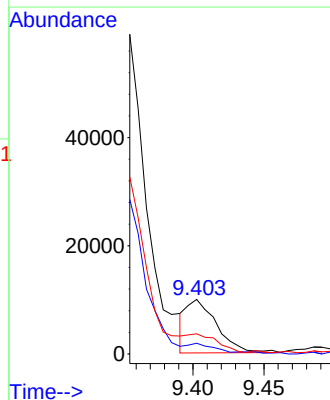
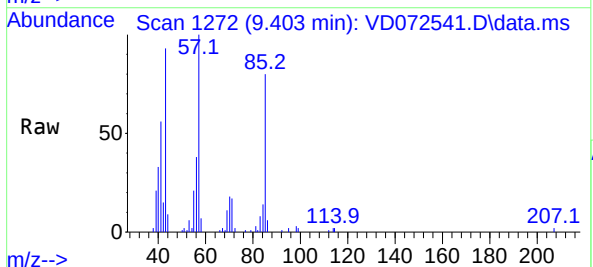
Instrument :
MSVOA_D
ClientSampleId :
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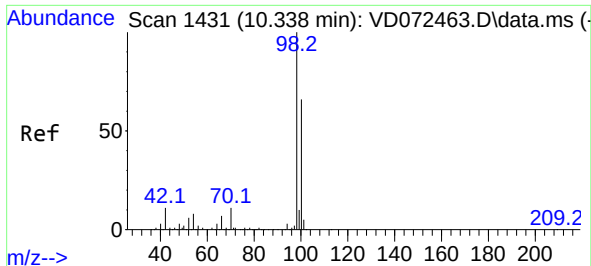
Tgt Ion: 43 Resp: 25127
Ion Ratio Lower Upper
43 100
61 0.0 22.4 33.6#
87 0.0 8.7 13.1#



#48
Methyl methacrylate
Concen: 3.652 ug/l
RT: 9.403 min Scan# 1272
Delta R.T. -0.047 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 41 Resp: 14692
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 0.0 42.7 64.1#

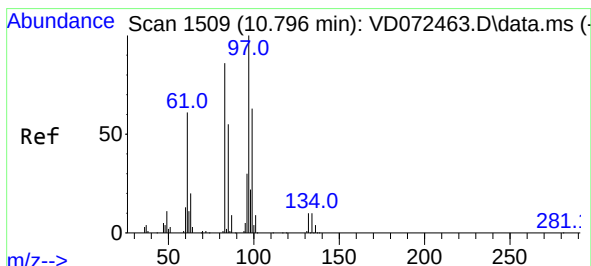
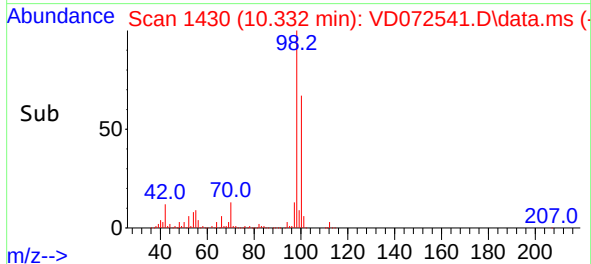
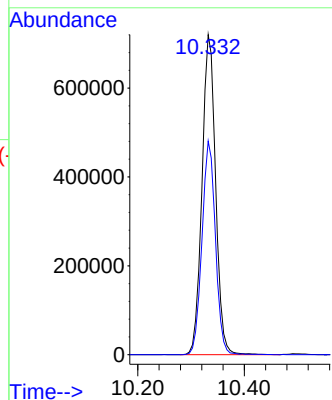
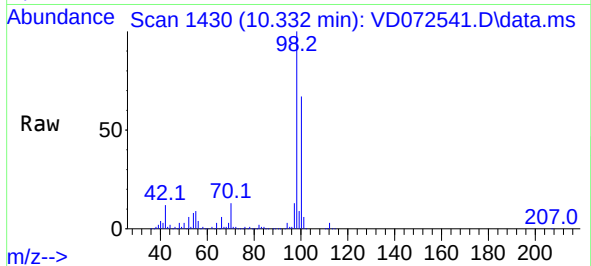




#50
Toluene-d8
Concen: 44.961 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

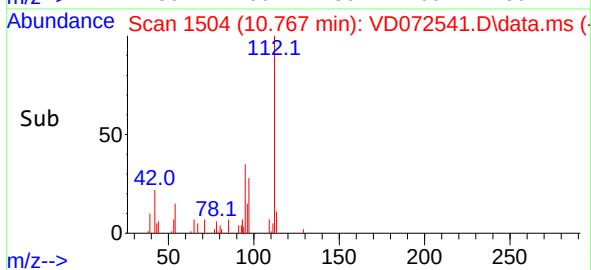
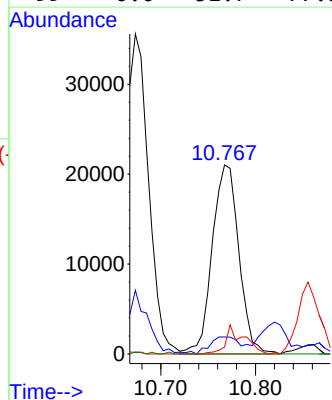
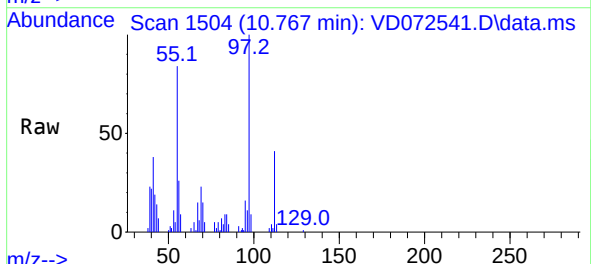
Instrument :
MSVOA_D
ClientSampleId :
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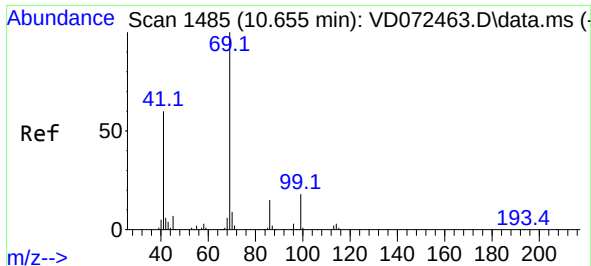
Tgt Ion: 98 Resp: 1274117
Ion Ratio Lower Upper
98 100
100 66.1 52.4 78.6



#55
1,1,2-Trichloroethane
Concen: 6.524 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.029 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 97 Resp: 41098
Ion Ratio Lower Upper
97 100
83 8.1 69.0 103.4#
85 3.6 42.6 63.8#
99 0.0 51.7 77.5#

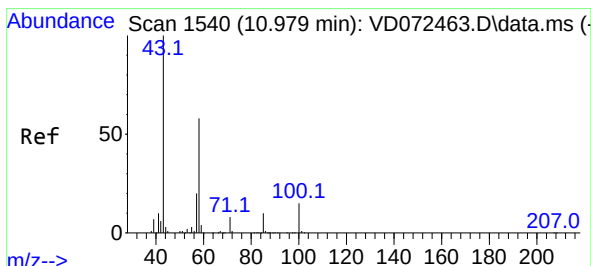
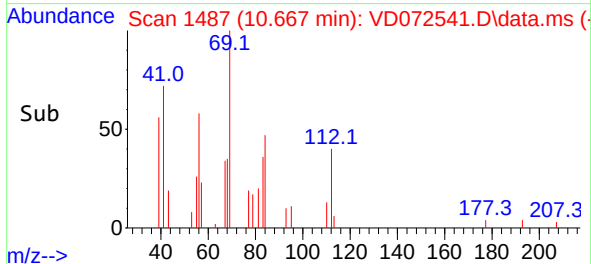
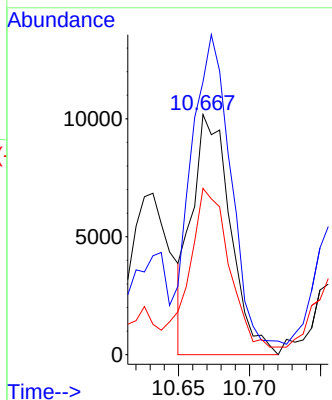
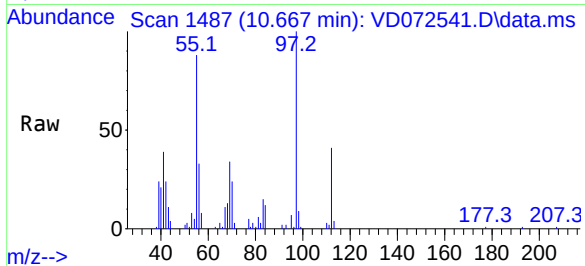




#56
Ethyl methacrylate
Concen: 3.601 ug/l
RT: 10.667 min Scan# 1487
Delta R.T. 0.012 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

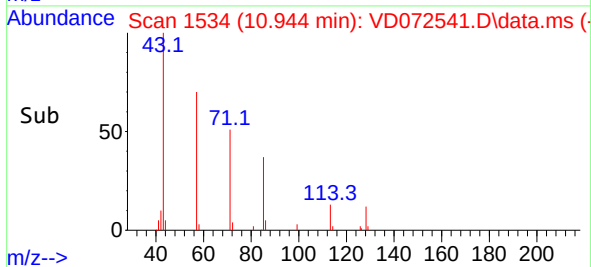
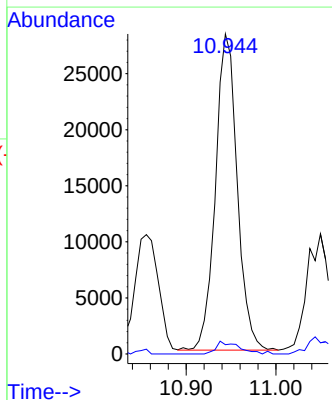
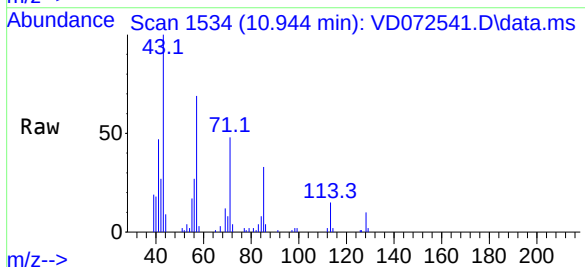
Instrument :
MSVOA_D
ClientSampleId :
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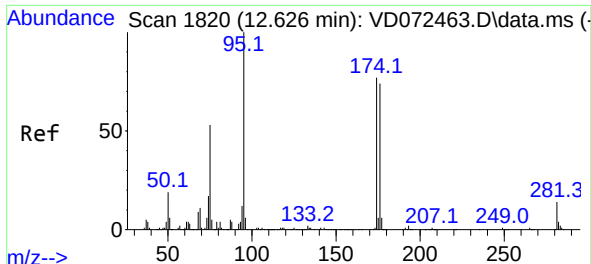
Tgt Ion: 69 Resp: 19128
Ion Ratio Lower Upper
69 100
41 127.2 63.0 94.6#
39 72.7 33.8 50.8#



#59
2-Hexanone
Concen: 15.716 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 43 Resp: 47517
Ion Ratio Lower Upper
43 100
58 4.0 25.3 75.9#

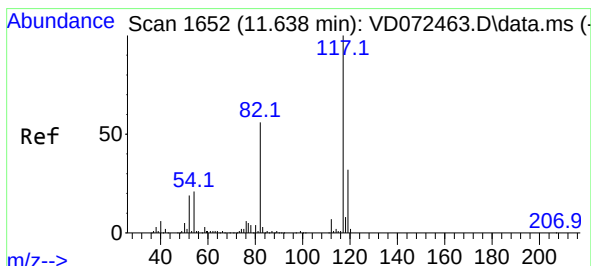
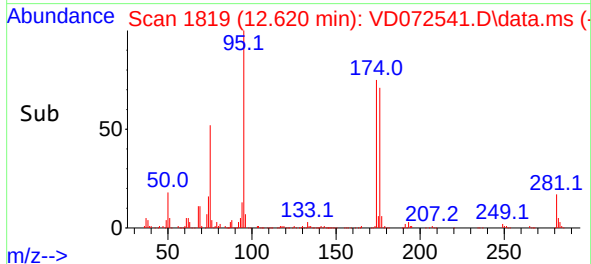
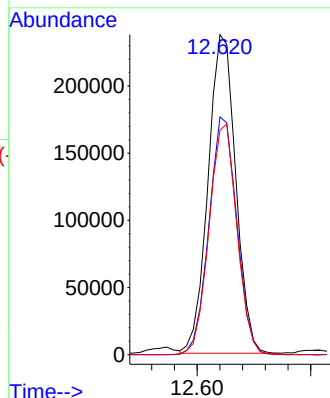
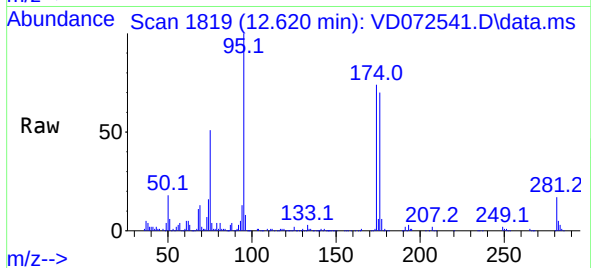




#62
4-Bromofluorobenzene
Concen: 36.224 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

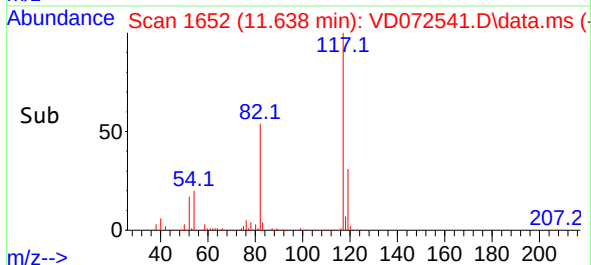
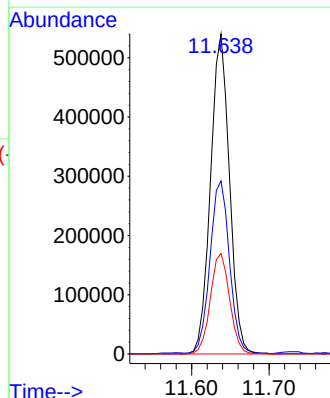
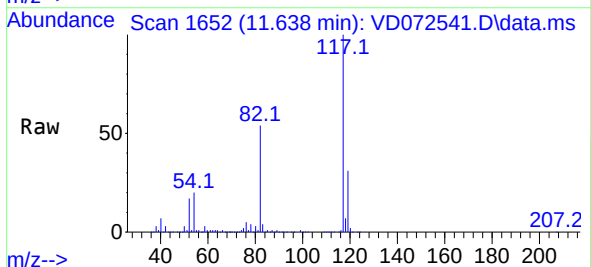
Instrument :
MSVOA_D
ClientSampleId :
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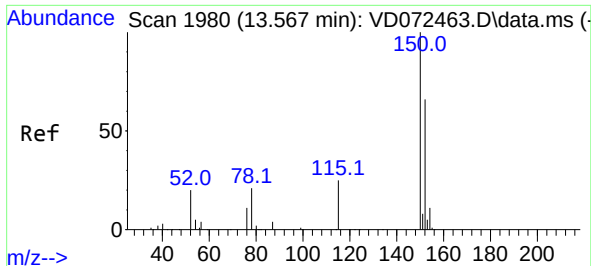
Tgt Ion: 95 Resp: 400903
Ion Ratio Lower Upper
95 100
174 75.3 0.0 152.8
176 72.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 117 Resp: 915745
Ion Ratio Lower Upper
117 100
82 53.7 45.3 67.9
119 31.4 26.6 40.0

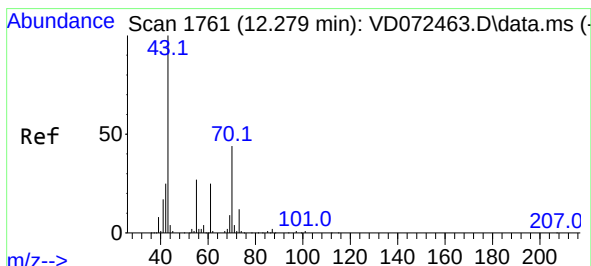
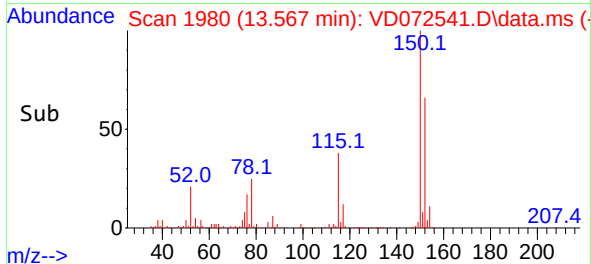
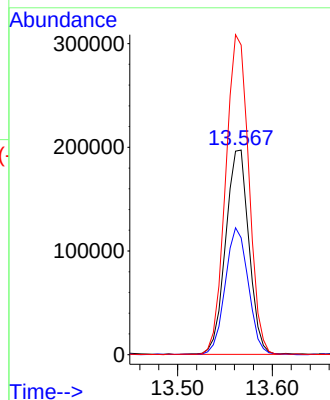
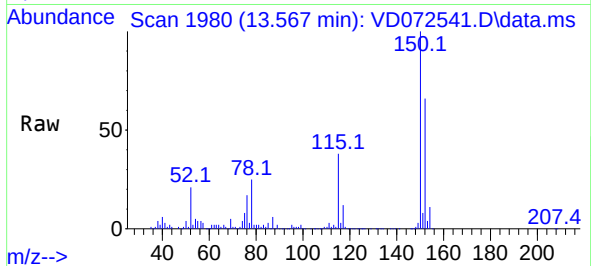




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

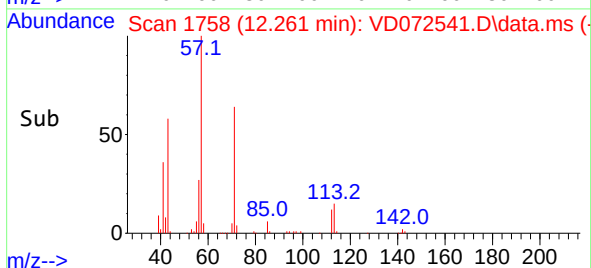
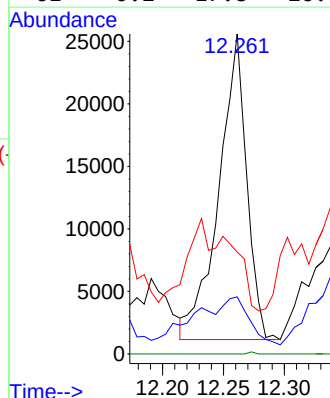
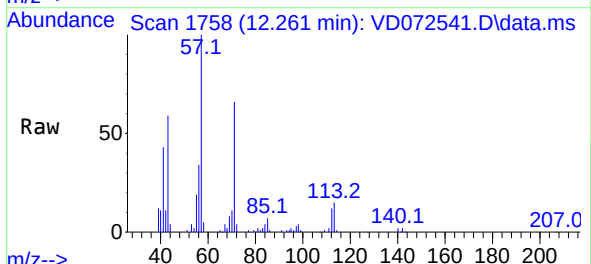
Instrument :
MSVOA_D
ClientSampleId :
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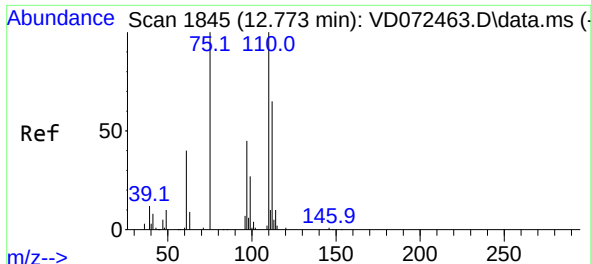
Tgt Ion:152 Resp: 337043
Ion Ratio Lower Upper
152 100
115 61.7 31.3 93.8
150 155.5 0.0 348.6



#74
N-ethyl acetate
Concen: 6.797 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 43 Resp: 38819
Ion Ratio Lower Upper
43 100
70 15.2 31.3 46.9#
55 0.0 20.0 30.0#
61 0.2 17.8 26.8#

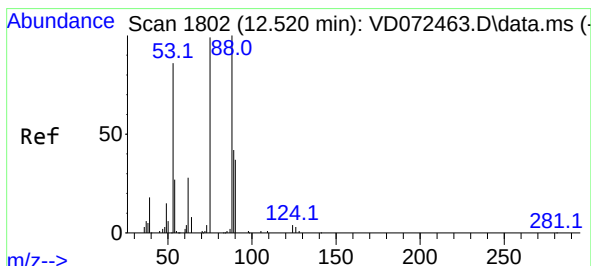
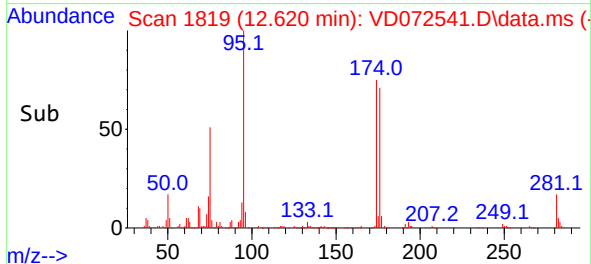
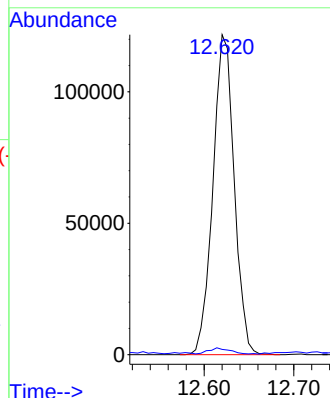
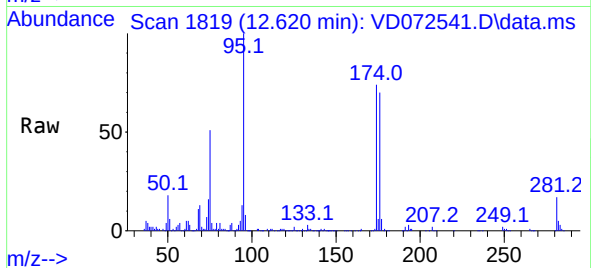




#76
1,2,3-Trichloropropane
Concen: 54.504 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

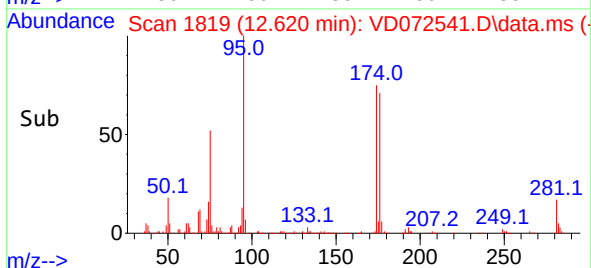
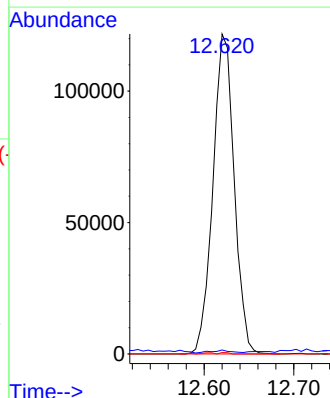
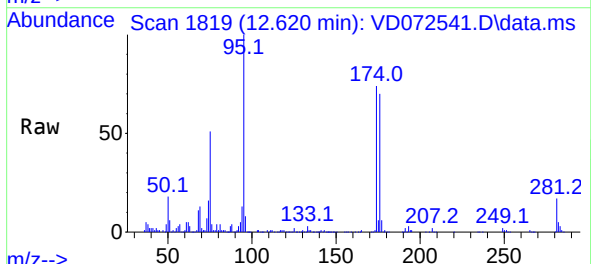
Instrument :
MSVOA_D
ClientSampleId :
LINDEN-SOUTH

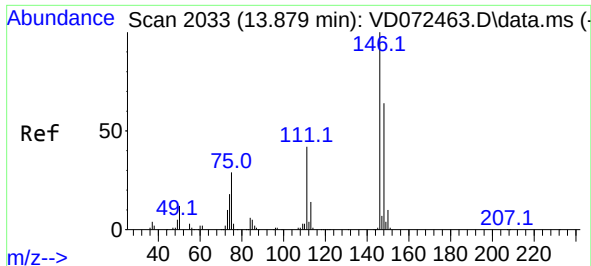
Tgt Ion: 75 Resp: 200356
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 133.742 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

Tgt Ion: 75 Resp: 200356
Ion Ratio Lower Upper
75 100
53 0.8 86.5 129.7#
89 0.2 33.9 50.9#

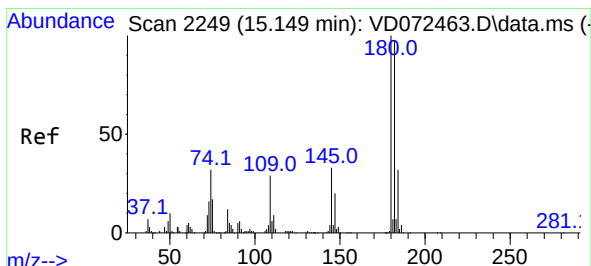
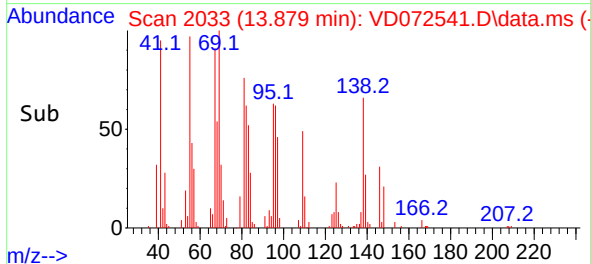
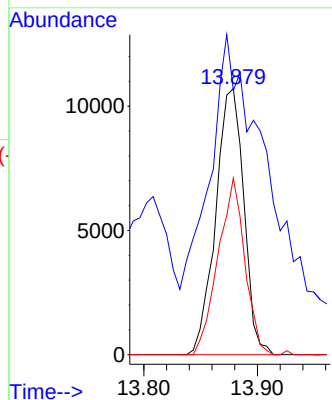
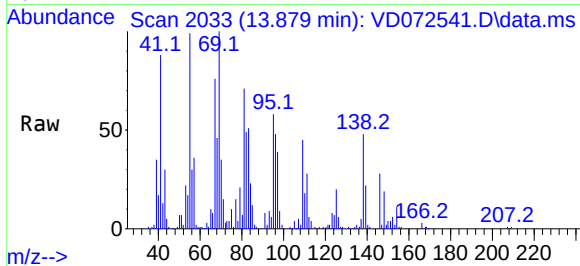




#91
1,2-Dichlorobenzene
Concen: 1.657 ug/l
RT: 13.879 min Scan# 2033
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

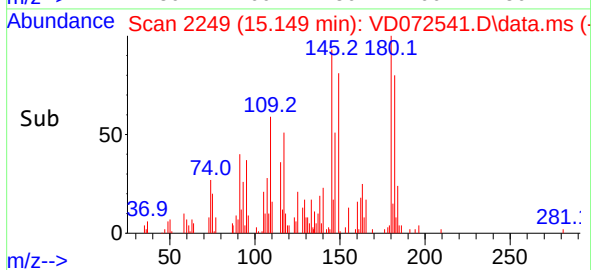
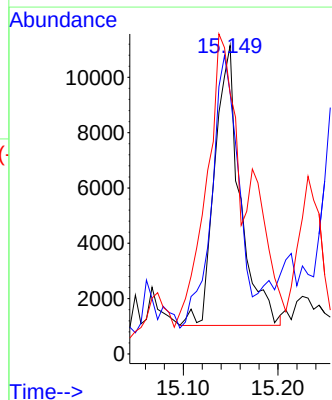
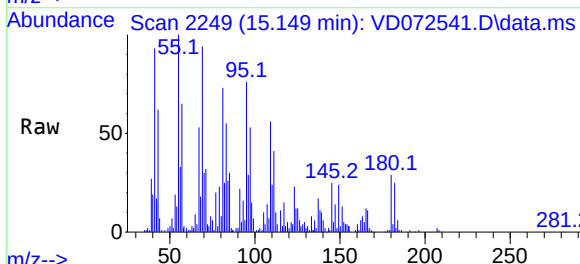
Instrument :
MSVOA_D
ClientSampleId :
LINDEN-SOUTH

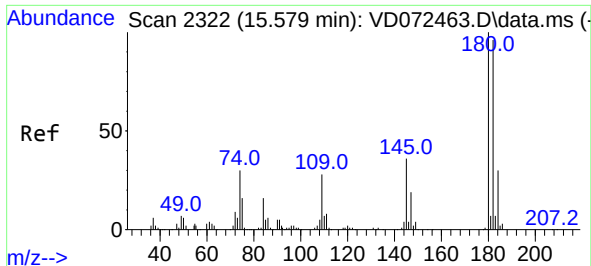
Tgt Ion:146 Resp: 18478
Ion Ratio Lower Upper
146 100
111 187.1 21.1 63.3#
148 62.9 31.7 95.1



#93
1,2,4-Trichlorobenzene
Concen: 2.718 ug/l
RT: 15.149 min Scan# 2249
Delta R.T. 0.000 min
Lab File: VD072541.D
Acq: 05 Apr 2022 18:07

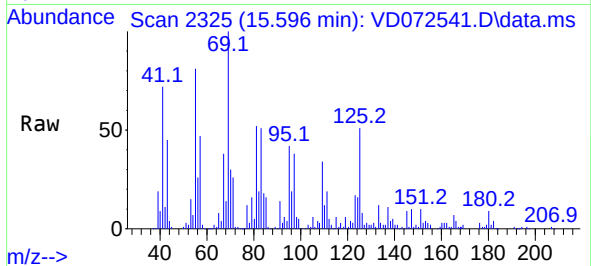
Tgt Ion:180 Resp: 18785
Ion Ratio Lower Upper
180 100
182 104.1 47.3 142.0
145 126.5 16.2 48.5#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.326 ug/l
 RT: 15.596 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VD072541.D
 Acq: 05 Apr 2022 18:07

Instrument :
 MSVOA_D
 ClientSampleId :
 LINDEN-SOUTH



Tgt Ion:180 Resp: 7996
 Ion Ratio Lower Upper
 180 100
 182 73.3 47.6 142.9
 145 0.0 17.1 51.3#

