

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082522\
 Data File : VN074117.D
 Acq On : 25 Aug 2022 16:23
 Operator : JC\MD
 Sample : P1314211ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P1314211ZHE#02

Quant Time: Aug 26 02:03:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 16 00:45:21 2022
 Response via : Initial Calibration

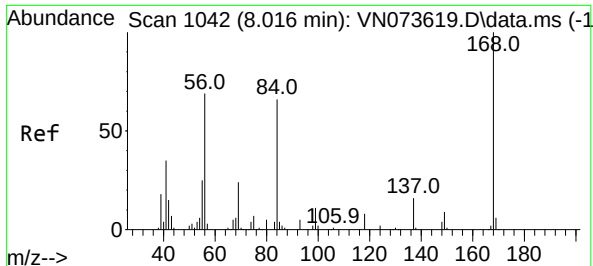
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	587444	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	920846	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	793764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	307552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	309082	54.019	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.040%			
35) Dibromofluoromethane	7.951	113	276117	50.703	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.380	98	1049775	49.773	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.540%			
62) 4-Bromofluorobenzene	12.668	95	314264	44.897	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.800%			
Target Compounds						Qvalue
5) Bromomethane	2.822	94	1776	0.428	ug/l #	78
6) Chloroethane	3.081	64	11156	2.375	ug/l #	59
11) Tert butyl alcohol	5.292	59	1029	0.804	ug/l #	72
16) Acetone	4.234	43	46954	17.394	ug/l	92
18) Methyl Acetate	4.792	43	7915	Below Cal		100
20) Methylene Chloride	5.016	84	32119	5.639	ug/l	95
25) 2-Butanone	7.269	43	11209	2.619	ug/l #	88
29) Tetrahydrofuran	7.622	42	1313	0.478	ug/l #	74
31) Cyclohexane	8.022	56	9726	1.219	ug/l #	21
36) 1,1-Dichloropropene	8.022	75	39958	5.283	ug/l #	49
37) Ethyl Acetate	7.339	43	67287	7.343	ug/l	97
38) Carbon Tetrachloride	8.016	117	54092	6.256	ug/l #	16
41) Methacrylonitrile	7.622	41	836	0.202	ug/l #	23
42) 1,2-Dichloroethane	8.498	62	2070	0.252	ug/l #	74
43) Isopropyl Acetate	8.498	43	267901	20.522	ug/l	93
45) 1,2-Dichloropropane	9.563	63	4009	0.701	ug/l #	44
48) Methyl methacrylate	9.486	41	9477	1.697	ug/l #	37
49) 1,4-Dioxane	9.563	88	415	2.498	ug/l #	1
51) 4-Methyl-2-Pentanone	10.274	43	21298	2.413	ug/l #	72
54) cis-1,3-Dichloropropene	10.186	75	102587	10.746	ug/l #	61
56) Ethyl methacrylate	10.816	69	3344	0.368	ug/l #	1
57) 1,3-Dichloropropane	11.033	76	14712	1.421	ug/l #	42
59) 2-Hexanone	11.033	43	182016	26.796	ug/l #	50
74) N-amyl acetate	12.139	43	52369	6.186	ug/l #	49
76) 1,2,3-Trichloropropane	12.668	75	154438	24.159	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	154438	68.714	ug/l #	11

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

Quant Time: Aug 26 02:03:03 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081522W.M
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Response via : Initial Calibration

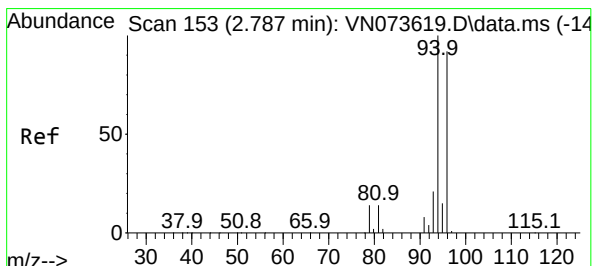
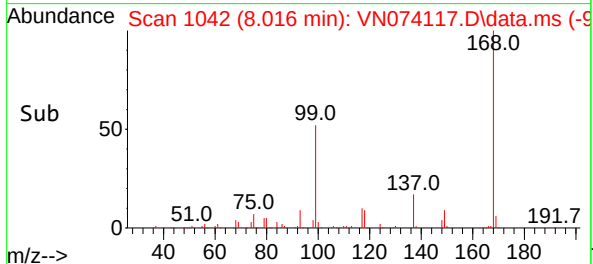
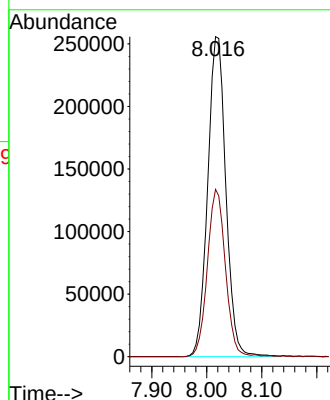
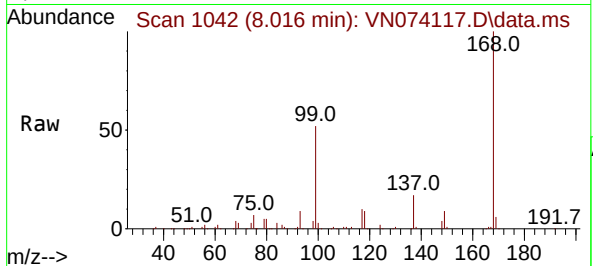




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

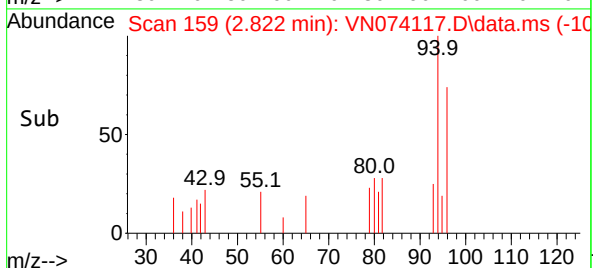
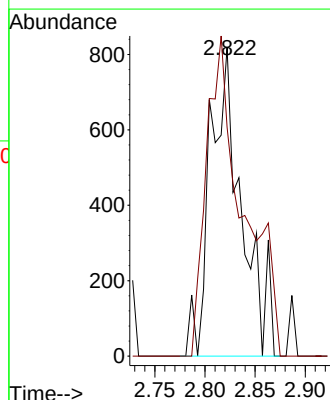
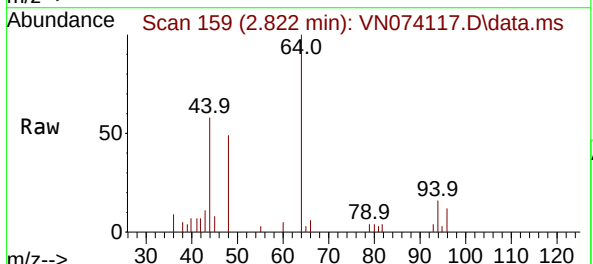
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

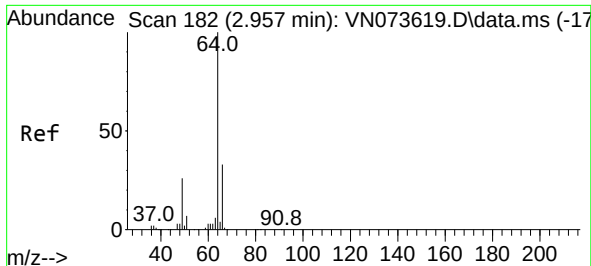
Tgt Ion:168 Resp: 587444
Ion Ratio Lower Upper
168 100
99 52.3 42.3 63.5



#5
Bromomethane
Concen: 0.428 ug/l
RT: 2.822 min Scan# 159
Delta R.T. 0.035 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 94 Resp: 1776
Ion Ratio Lower Upper
94 100
96 74.1 76.0 114.0#

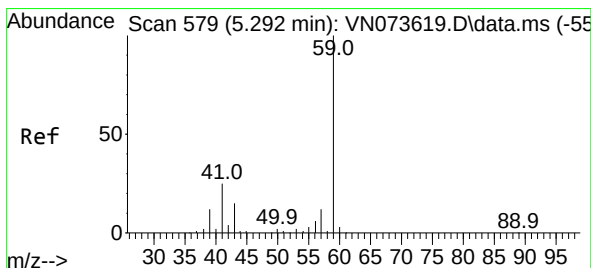
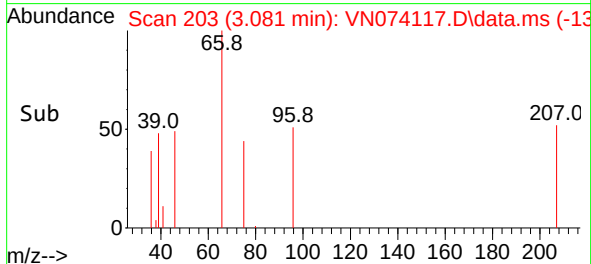
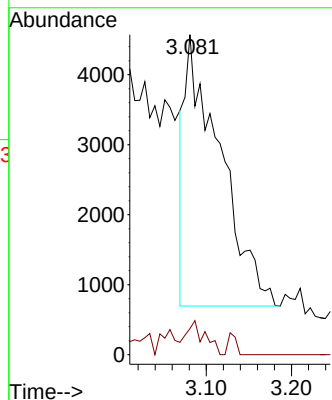
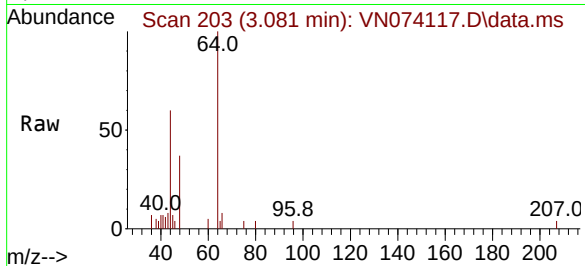




#6
Chloroethane
Concen: 2.375 ug/l
RT: 3.081 min Scan# 20
Delta R.T. 0.124 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

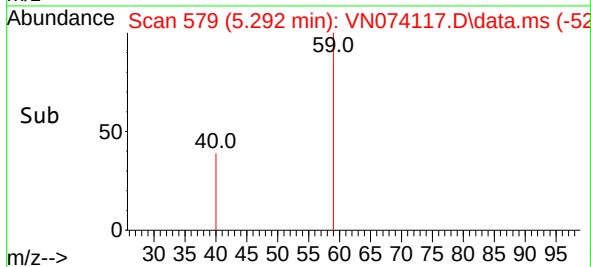
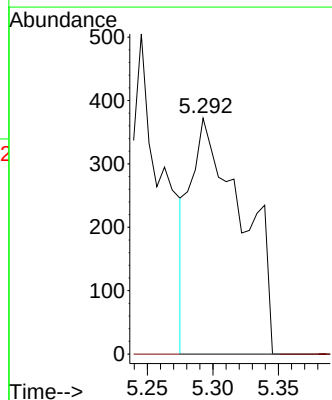
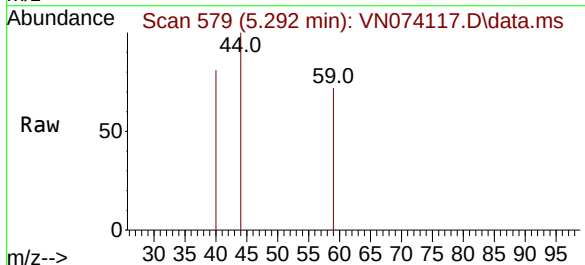
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

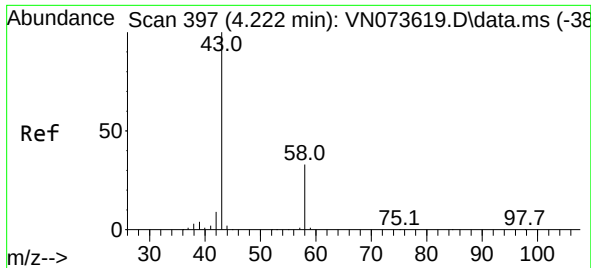
Tgt Ion: 64 Resp: 11156
Ion Ratio Lower Upper
64 100
66 9.6 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.804 ug/l
RT: 5.292 min Scan# 579
Delta R.T. 0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 59 Resp: 1029
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

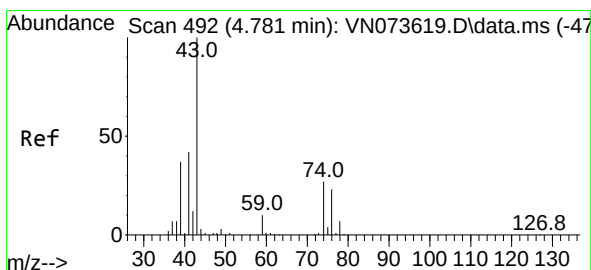
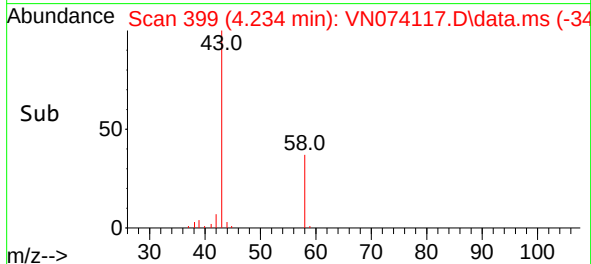
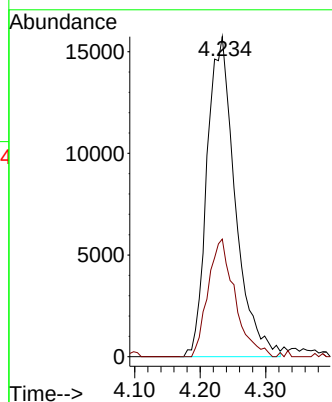
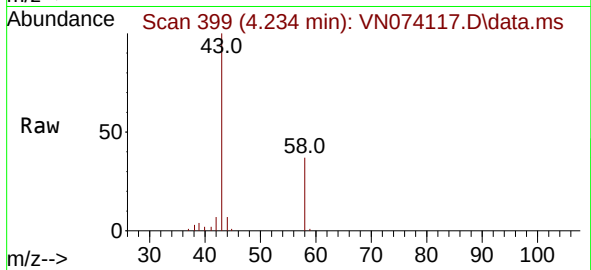




#16
Acetone
Concen: 17.394 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

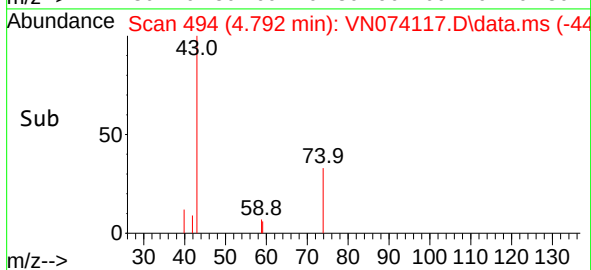
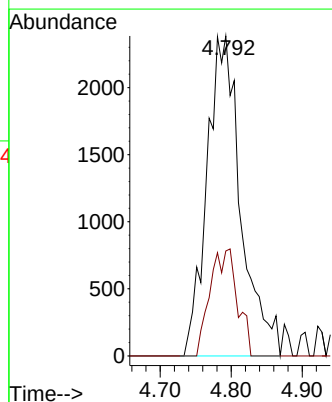
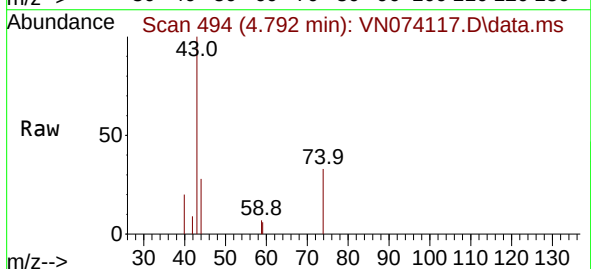
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

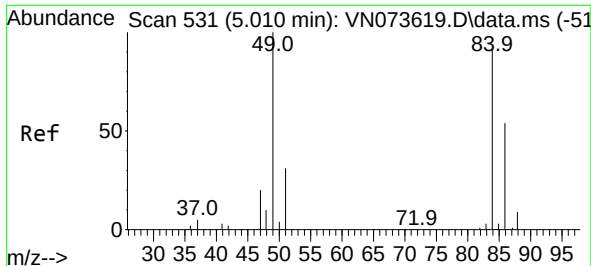
Tgt Ion: 43 Resp: 46954
Ion Ratio Lower Upper
43 100
58 36.7 26.0 39.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.792 min Scan# 494
Delta R.T. 0.011 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 43 Resp: 7915
Ion Ratio Lower Upper
43 100
74 26.8 21.6 32.4

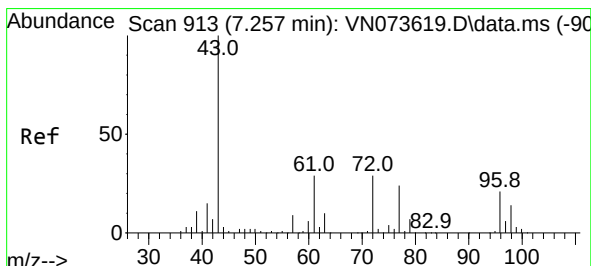
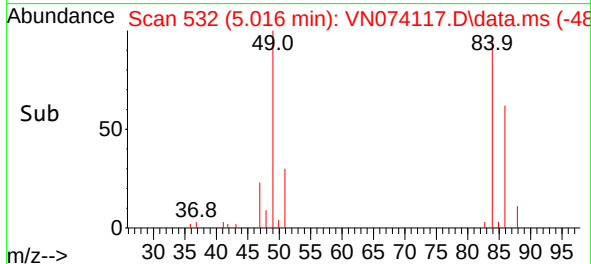
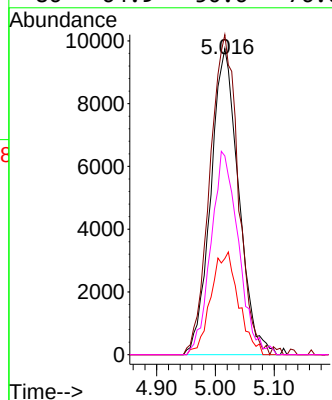
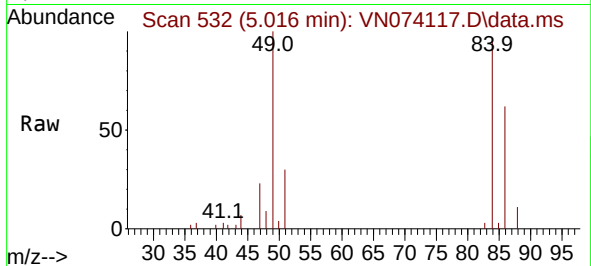




#20
Methylene Chloride
Concen: 5.639 ug/l
RT: 5.016 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

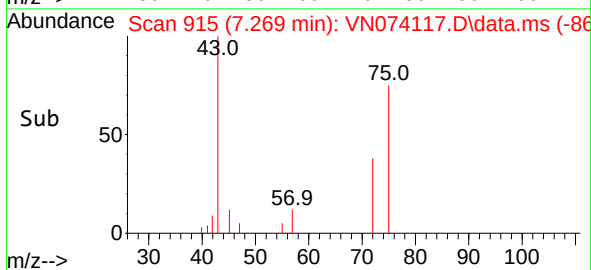
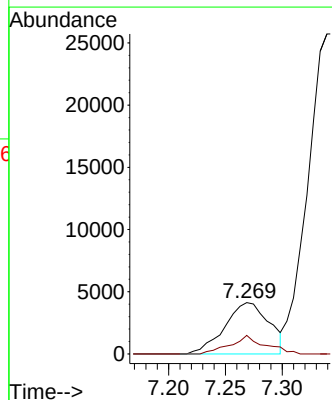
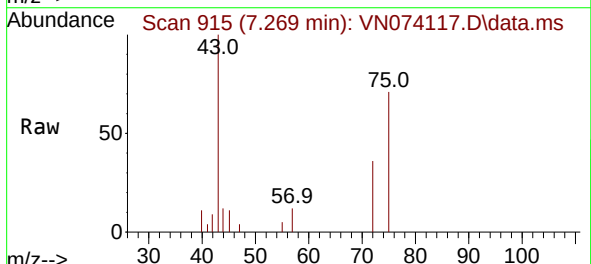
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

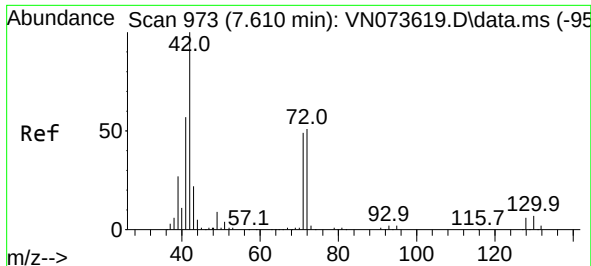
Tgt Ion:	84	Resp:	32119
Ion	Ratio	Lower	Upper
84	100		
49	104.6	88.3	132.5
51	31.4	28.2	42.2
86	64.9	50.6	76.0



#25
2-Butanone
Concen: 2.619 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion:	43	Resp:	11209
Ion	Ratio	Lower	Upper
43	100		
72	36.2	23.7	35.5#

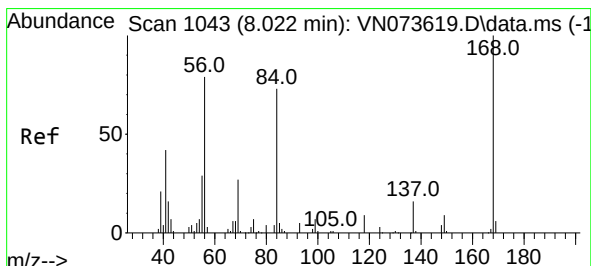
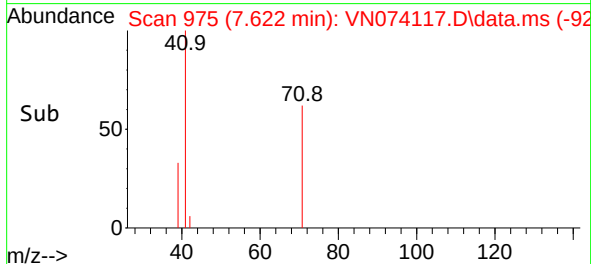
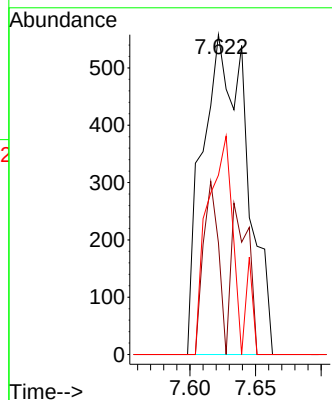
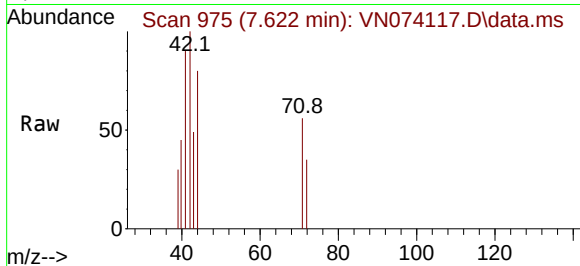




#29
Tetrahydrofuran
Concen: 0.478 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

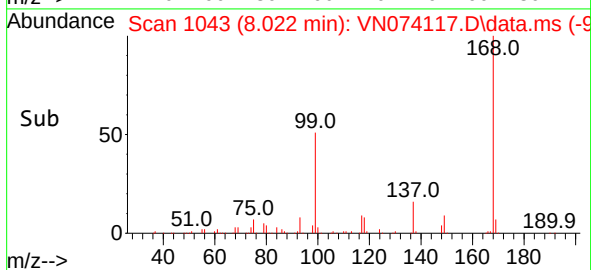
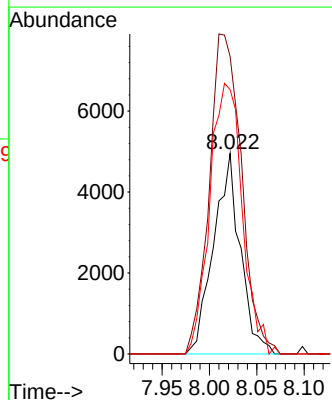
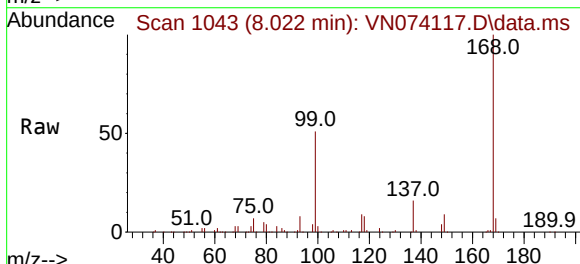
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ClientSampleId :
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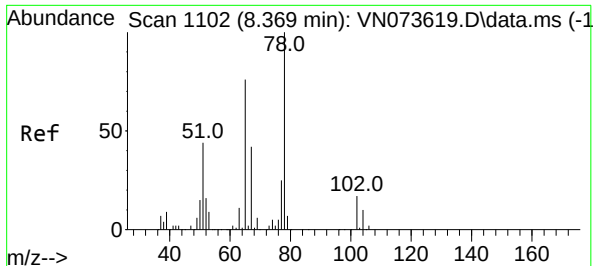
Tgt Ion: 42 Resp: 1313
Ion Ratio Lower Upper
42 100
72 18.4 39.7 59.5#
71 42.4 36.6 55.0



#31
Cyclohexane
Concen: 1.219 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 56 Resp: 9726
Ion Ratio Lower Upper
56 100
69 148.3 27.8 41.8#
84 131.8 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 54.019 ug/l

RT: 8.375 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VN074117.D

Acq: 25 Aug 2022 16:23

Instrument :

MSVOA_N

ClientSampleId :

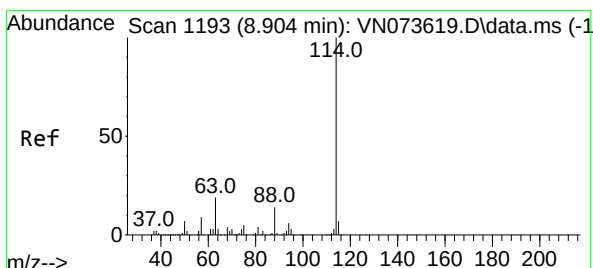
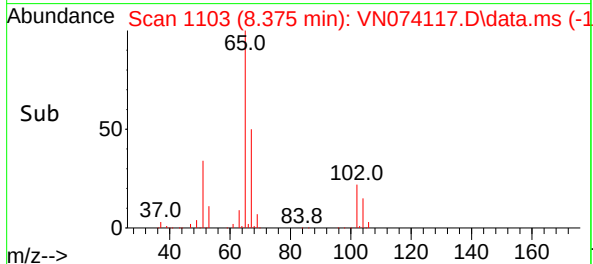
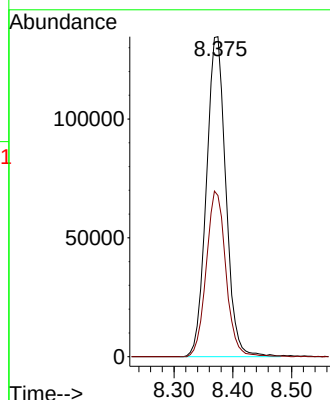
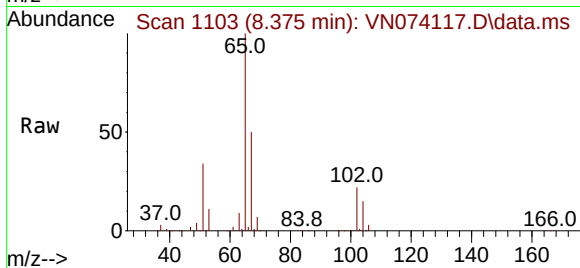
P1314211ZHE#02

Tgt Ion: 65 Resp: 309082

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074117.D

Acq: 25 Aug 2022 16:23

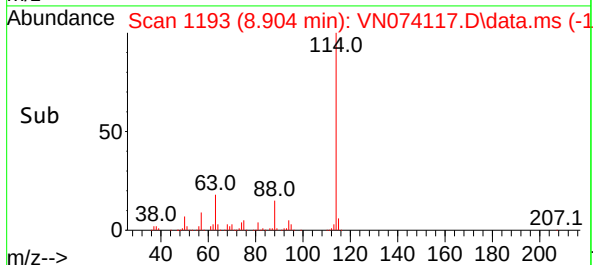
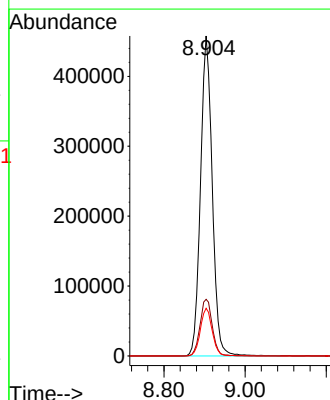
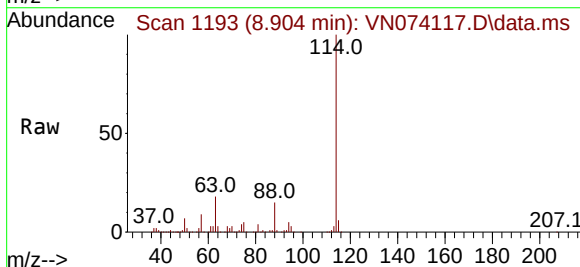
Tgt Ion: 114 Resp: 920846

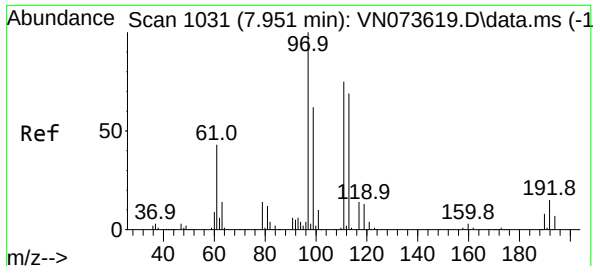
Ion Ratio Lower Upper

114 100

63 17.7 0.0 40.0

88 14.9 0.0 32.6

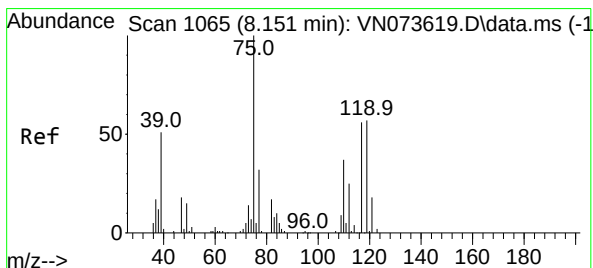
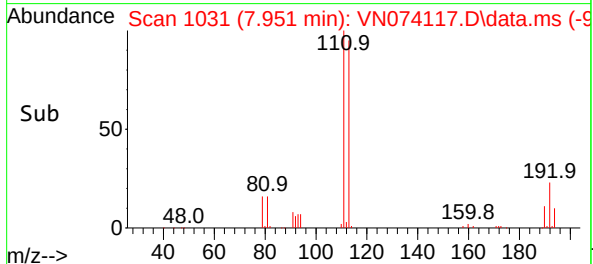
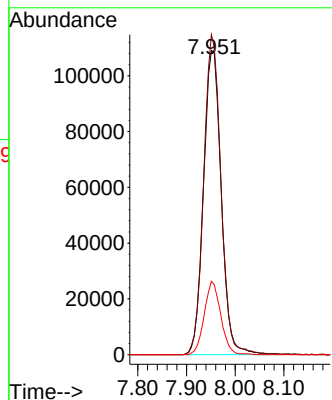
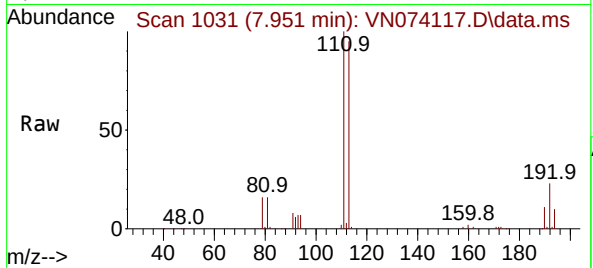




#35
Dibromofluoromethane
Concen: 50.703 ug/l
RT: 7.951 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

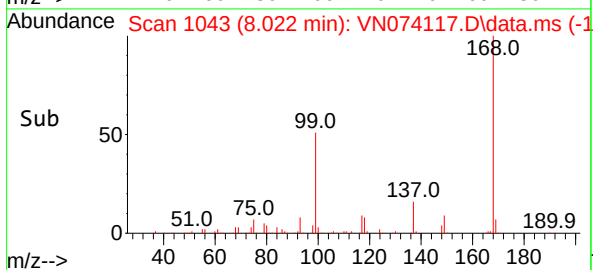
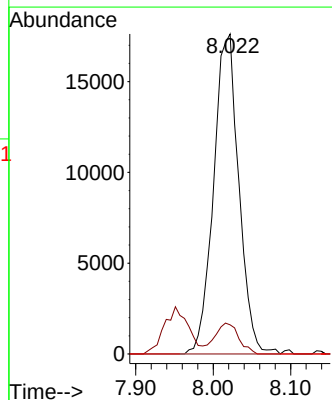
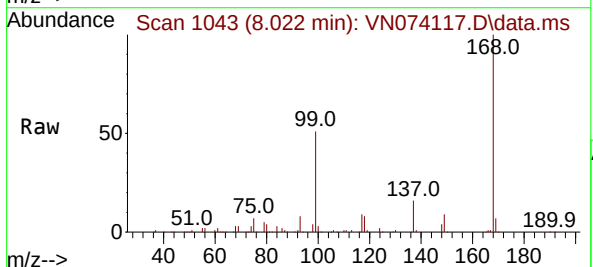
Instrument :
MSVOA_N
ClientSampleId :
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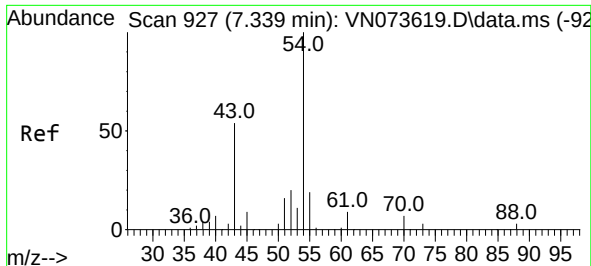
Tgt Ion:113 Resp: 276117
Ion Ratio Lower Upper
113 100
111 102.2 81.4 122.0
192 22.5 17.0 25.6



#36
1,1-Dichloropropene
Concen: 5.283 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.129 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 75 Resp: 39958
Ion Ratio Lower Upper
75 100
110 9.1 18.3 54.8#
77 0.0 25.1 37.7#

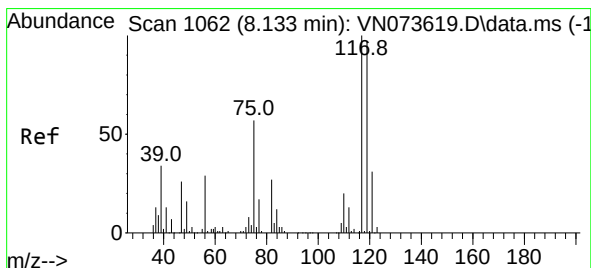
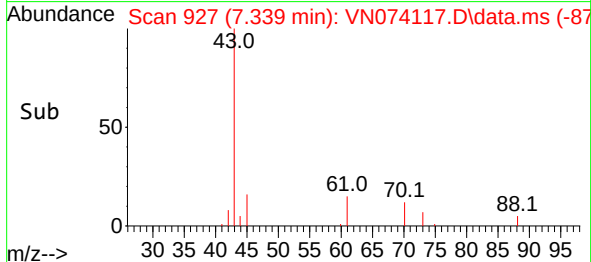
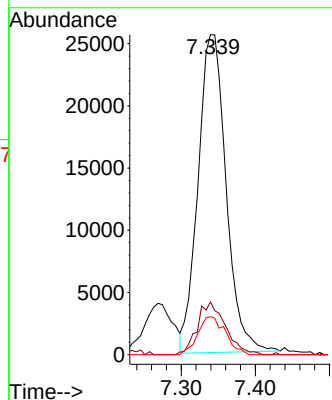
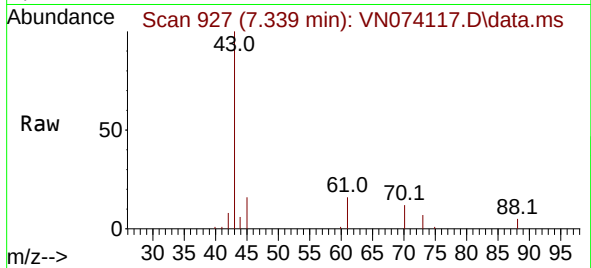




#37
Ethyl Acetate
Concen: 7.343 ug/l
RT: 7.339 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

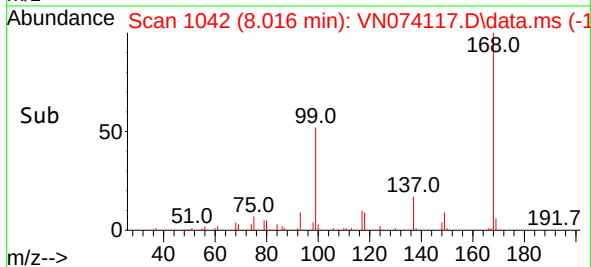
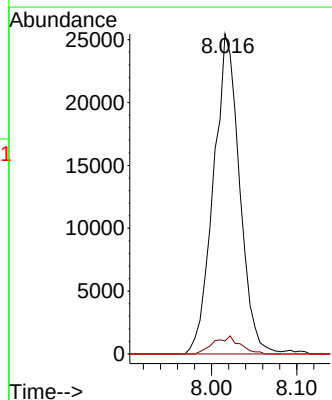
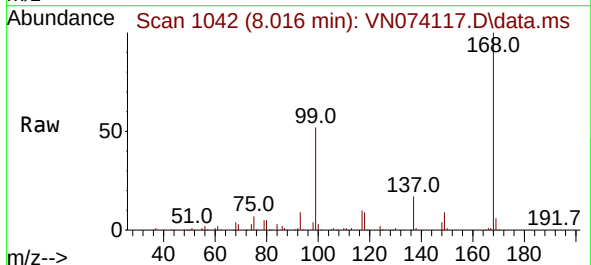
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

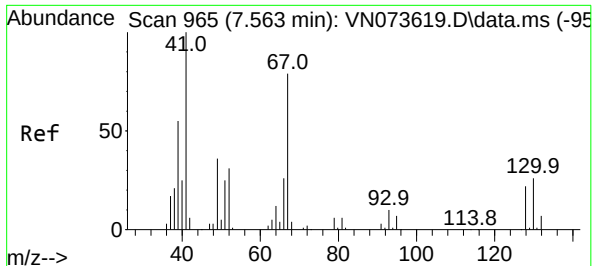
Tgt Ion:	43	Resp:	67287
Ion	Ratio	Lower	Upper
43	100		
61	16.6	11.8	17.6
70	11.7	9.3	13.9



#38
Carbon Tetrachloride
Concen: 6.256 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion:	117	Resp:	54092
Ion	Ratio	Lower	Upper
117	100		
119	4.1	75.8	113.8#
121	0.0	24.6	37.0#

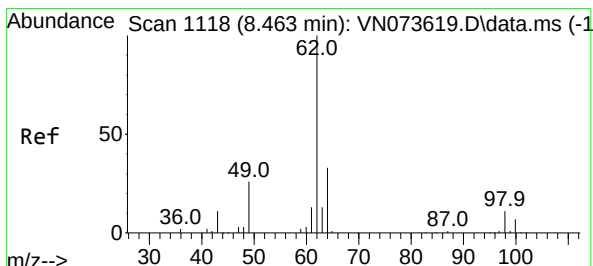
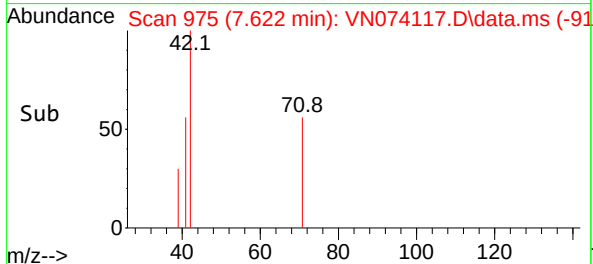
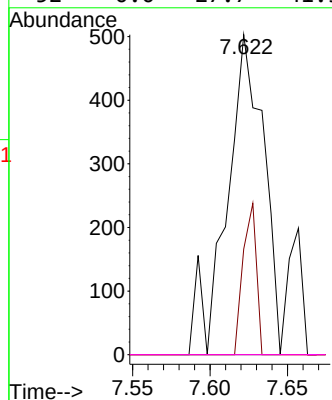
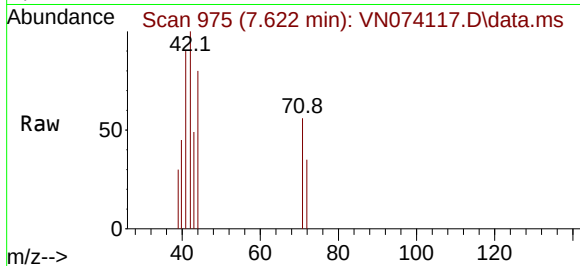




#41
Methacrylonitrile
Concen: 0.202 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.059 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

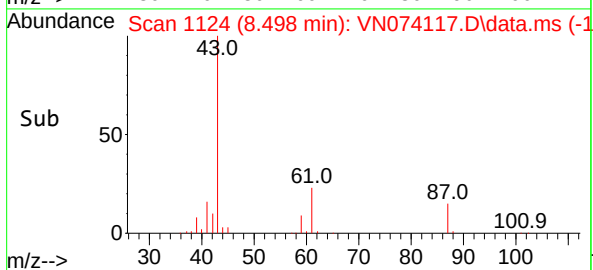
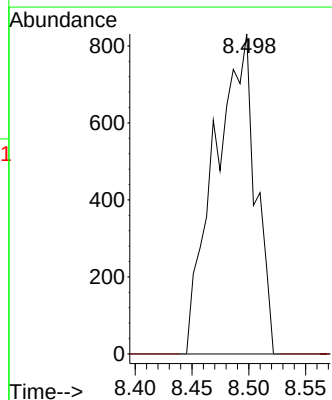
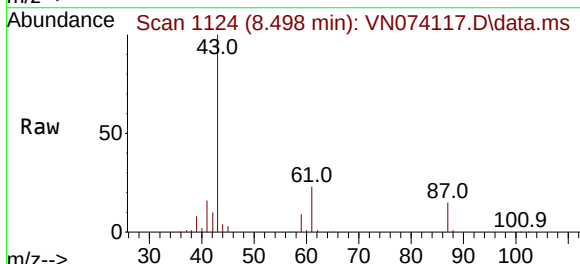
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

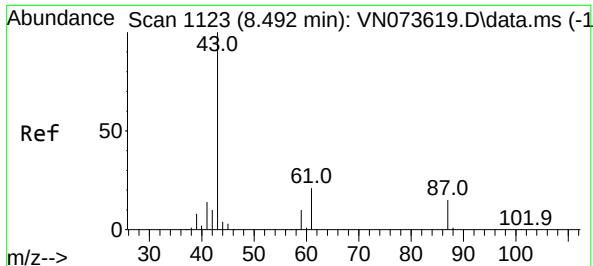
Tgt Ion: 41	Resp: 836
Ion Ratio	Lower Upper
41	100
39	17.1 48.6 73.0#
67	0.0 73.4 110.2#
52	0.0 27.7 41.5#



#42
1,2-Dichloroethane
Concen: 0.252 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.035 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 62	Resp: 2070
Ion Ratio	Lower Upper
62	100
98	0.0 0.0 19.4





#43

Isopropyl Acetate

Concen: 20.522 ug/l

RT: 8.498 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN074117.D

Acq: 25 Aug 2022 16:23

Instrument :

MSVOA_N

ClientSampleId :

P1314211ZHE#02

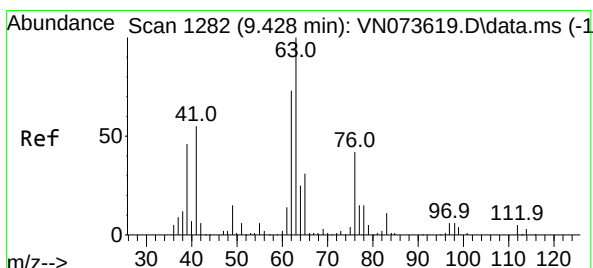
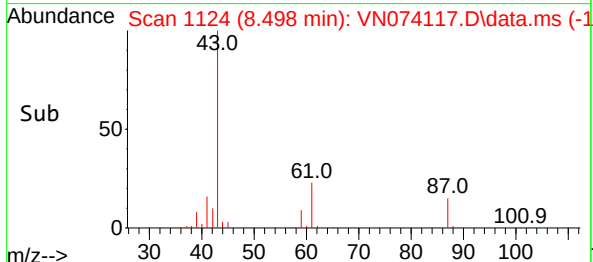
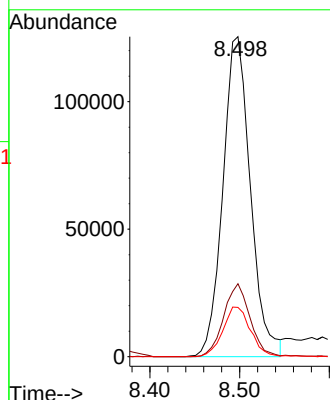
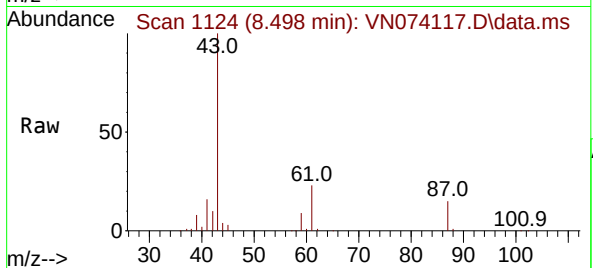
Tgt Ion: 43 Resp: 267901

Ion Ratio Lower Upper

43 100

61 22.0 21.9 32.9

87 15.7 12.0 18.0



#45

1,2-Dichloropropane

Concen: 0.701 ug/l

RT: 9.563 min Scan# 1305

Delta R.T. 0.135 min

Lab File: VN074117.D

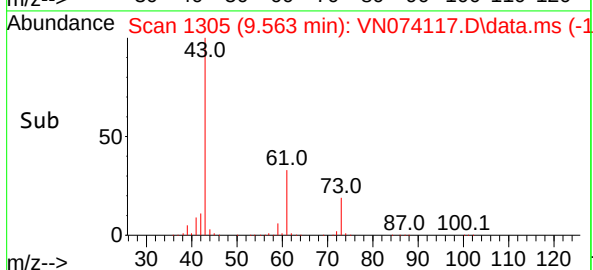
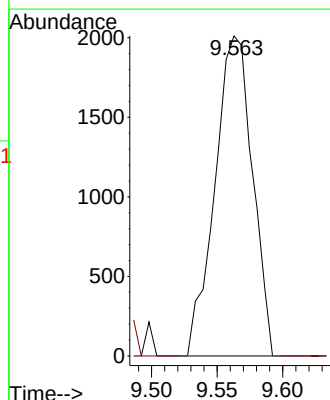
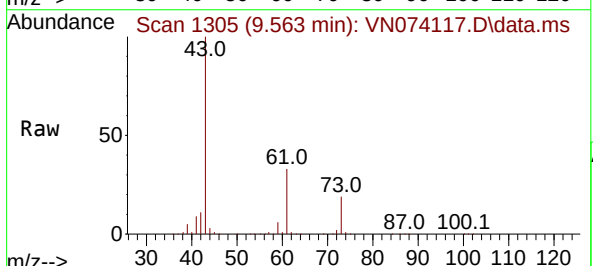
Acq: 25 Aug 2022 16:23

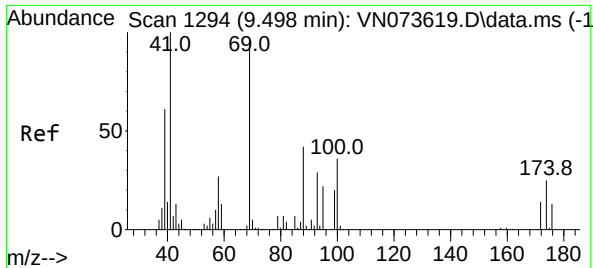
Tgt Ion: 63 Resp: 4009

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

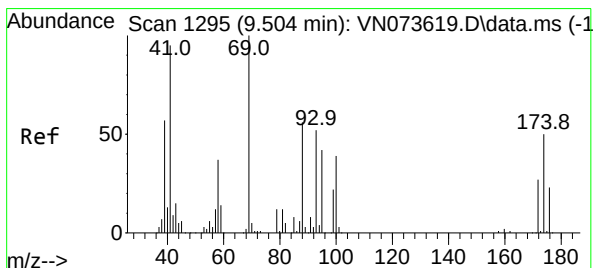
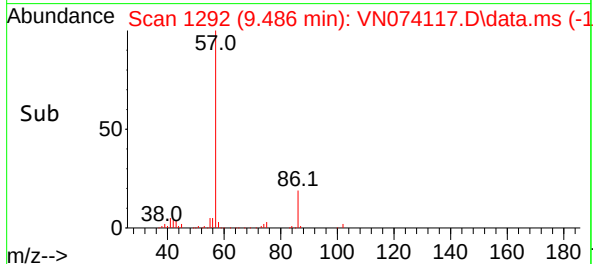
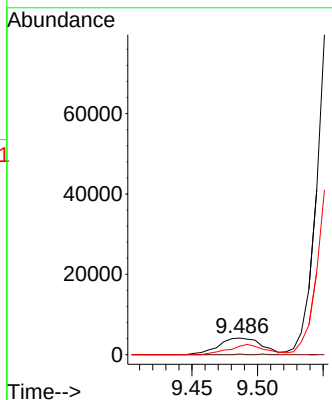
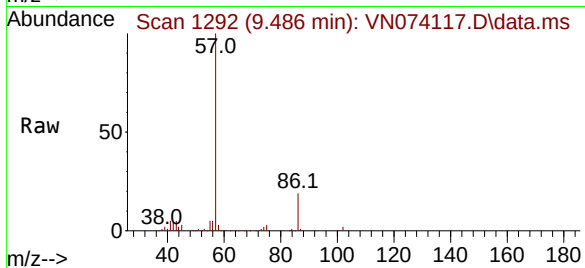




#48
Methyl methacrylate
Concen: 1.697 ug/l
RT: 9.486 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

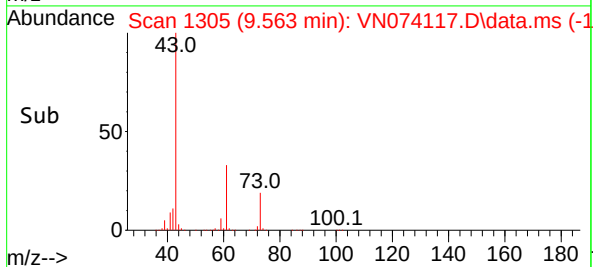
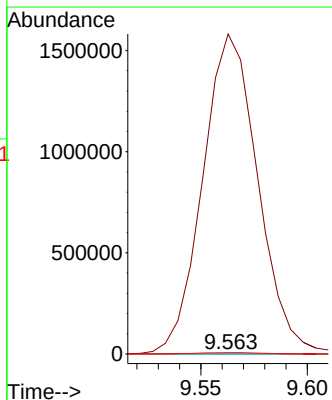
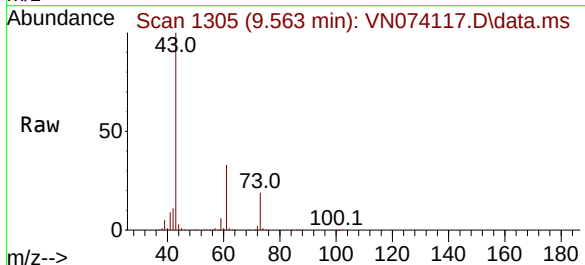
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

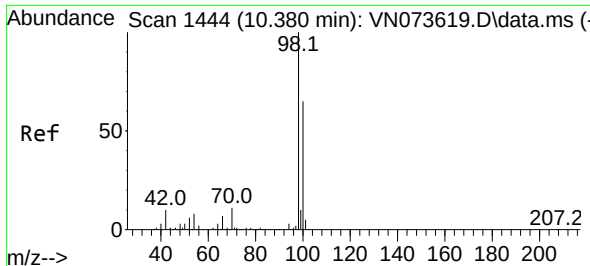
Tgt Ion: 41 Resp: 9477
Ion Ratio Lower Upper
41 100
69 0.6 74.7 112.1#
39 51.1 45.6 68.4



#49
1,4-Dioxane
Concen: 2.498 ug/l
RT: 9.563 min Scan# 1305
Delta R.T. 0.059 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 88 Resp: 415
Ion Ratio Lower Upper
88 100
43 692122.2 20.2 30.4#
58 3342.9 54.2 81.4#

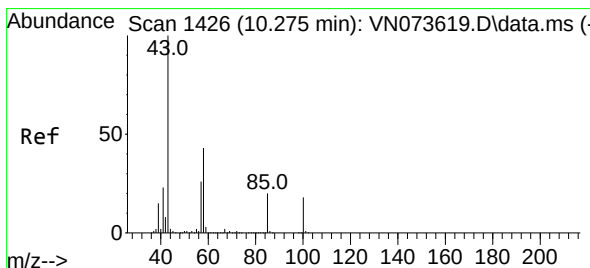
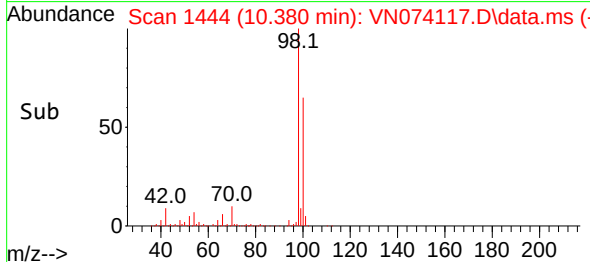
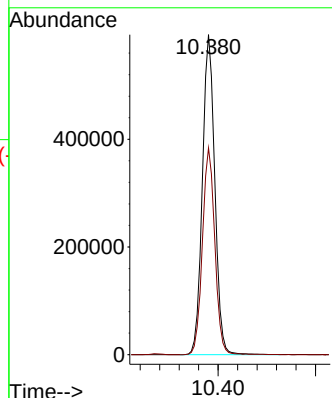
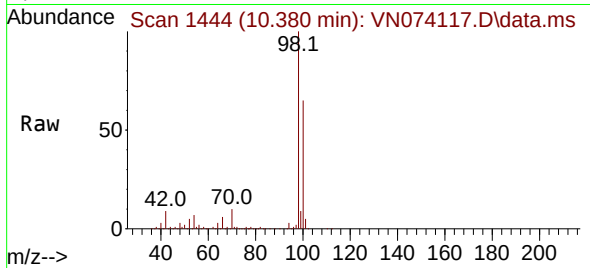




#50
Toluene-d8
Concen: 49.773 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

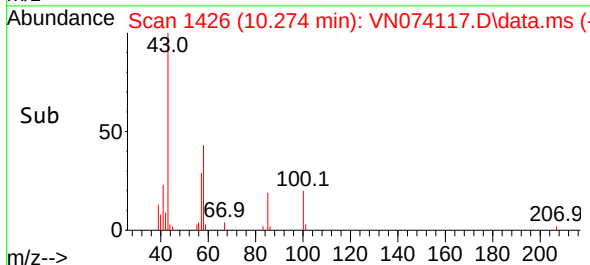
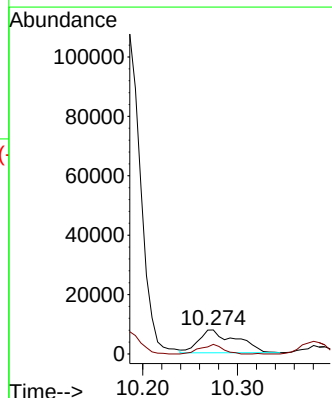
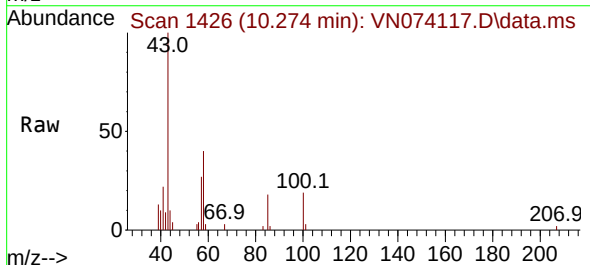
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

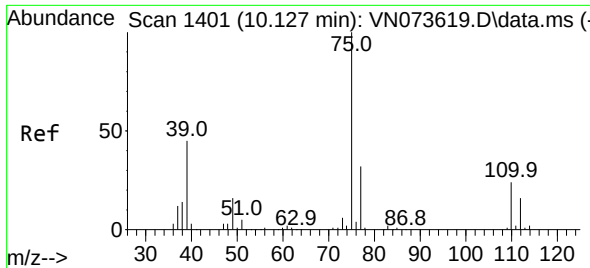
Tgt Ion: 98 Resp: 1049775
Ion Ratio Lower Upper
98 100
100 64.6 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 2.413 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 43 Resp: 21298
Ion Ratio Lower Upper
43 100
58 24.8 34.1 51.1#

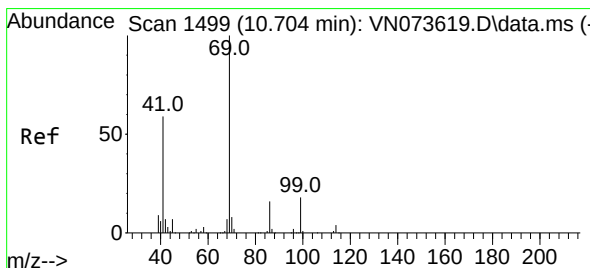
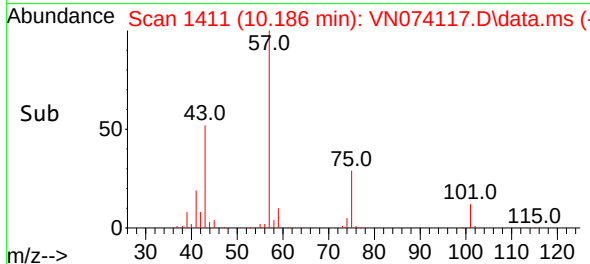
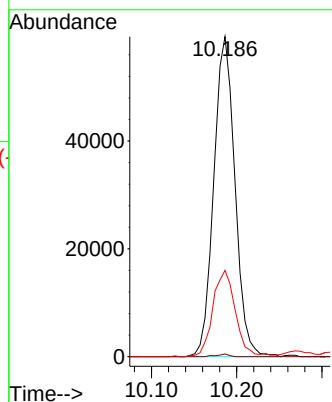
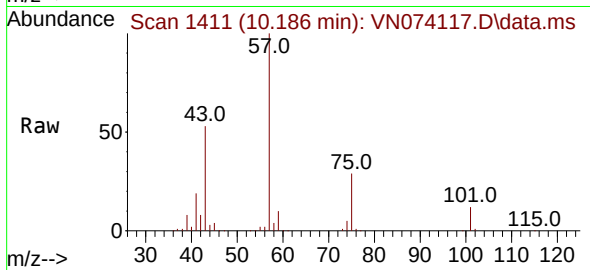




#54
 cis-1,3-Dichloropropene
 Concen: 10.746 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

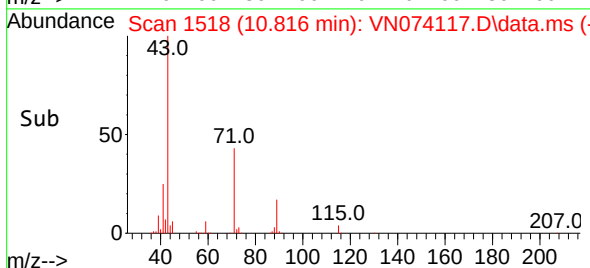
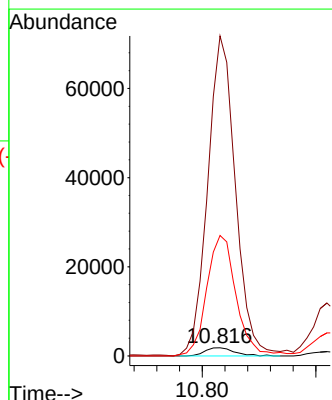
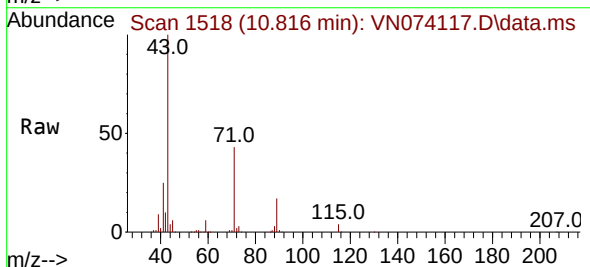
Instrument :
 MSVOA_N
 ClientSampleId :
 P1314211ZHE#02

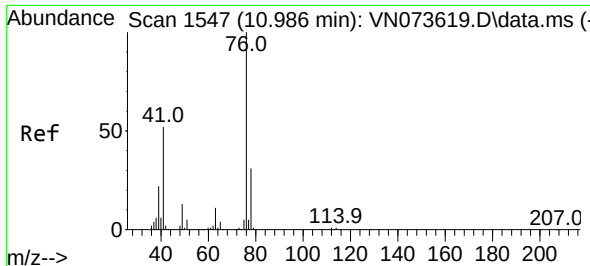
Tgt Ion: 75 Resp: 102587
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.2 37.8#
 39 26.9 35.7 53.5#



#56
 Ethyl methacrylate
 Concen: 0.368 ug/l
 RT: 10.816 min Scan# 1518
 Delta R.T. 0.112 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

Tgt Ion: 69 Resp: 3344
 Ion Ratio Lower Upper
 69 100
 41 3643.5 47.8 71.6#
 39 1451.3 27.3 40.9#

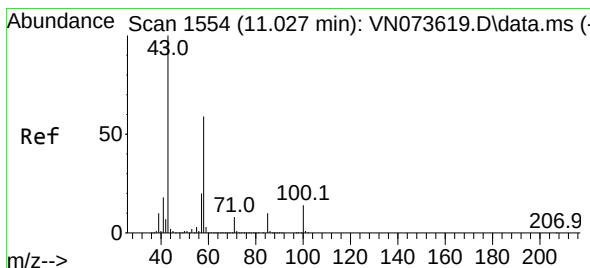
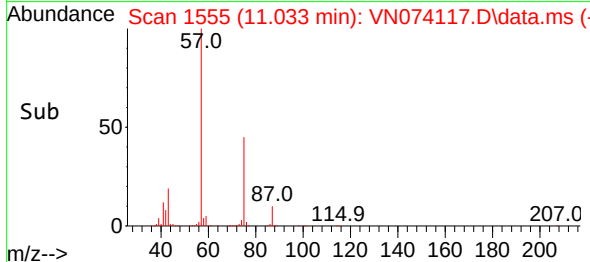
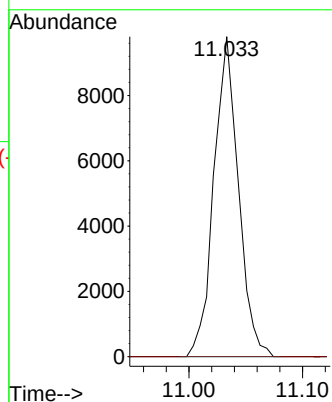
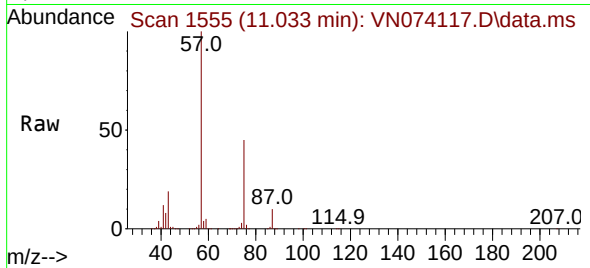




#57
1,3-Dichloropropane
Concen: 1.421 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.047 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

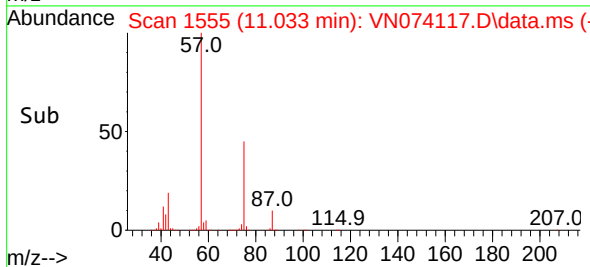
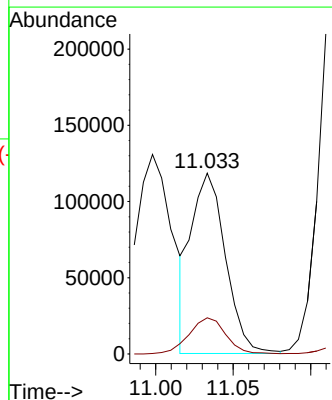
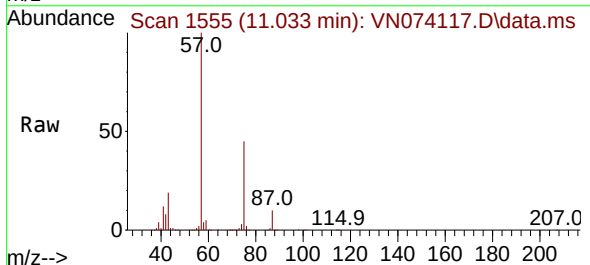
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

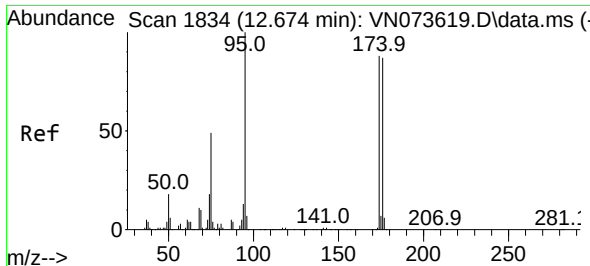
Tgt Ion: 76 Resp: 14712
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#



#59
2-Hexanone
Concen: 26.796 ug/l
RT: 11.033 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 43 Resp: 182016
Ion Ratio Lower Upper
43 100
58 21.7 29.7 89.1#

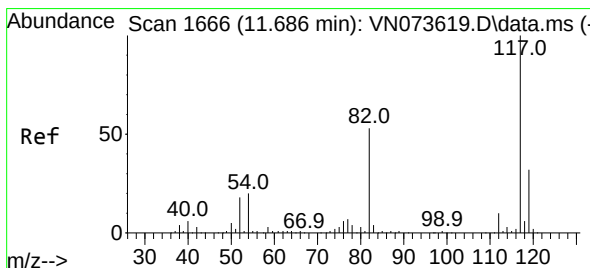
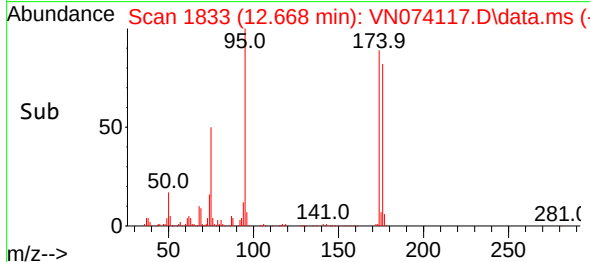
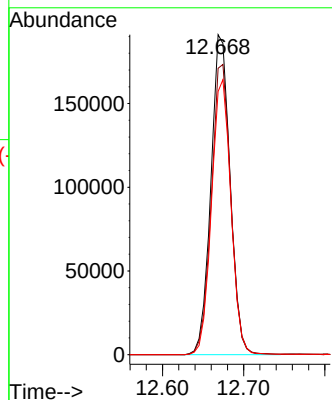
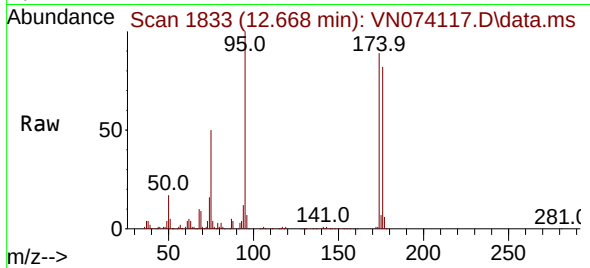




#62
4-Bromofluorobenzene
Concen: 44.897 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

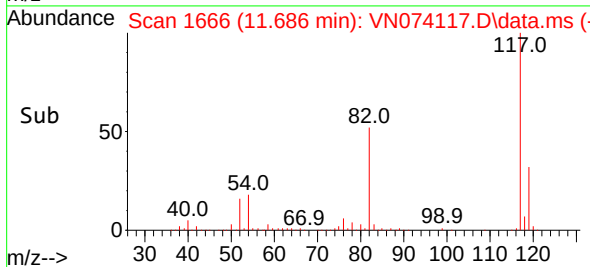
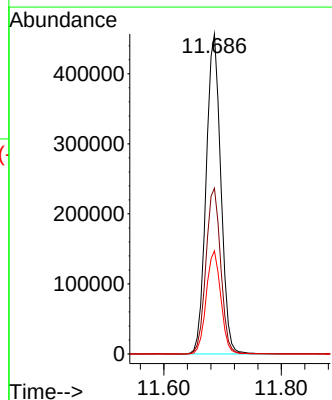
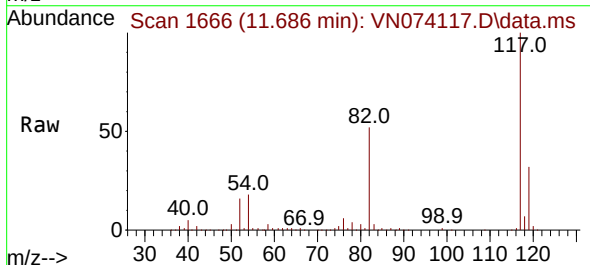
Instrument :
MSVOA_N
ClientSampleId :
P1314211ZHE#02

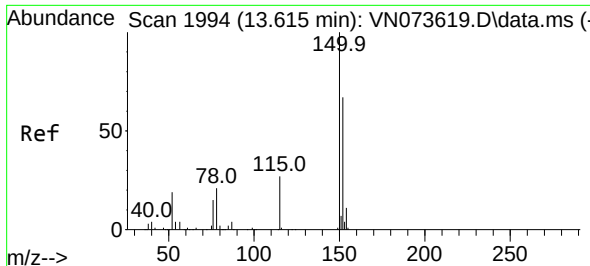
Tgt Ion: 95 Resp: 314264
Ion Ratio Lower Upper
95 100
174 92.2 0.0 167.6
176 86.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074117.D
Acq: 25 Aug 2022 16:23

Tgt Ion: 117 Resp: 793764
Ion Ratio Lower Upper
117 100
82 51.8 44.2 66.2
119 32.2 25.4 38.0

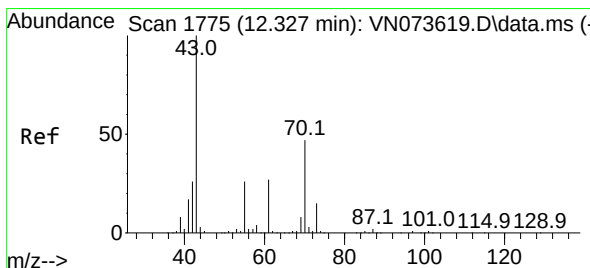
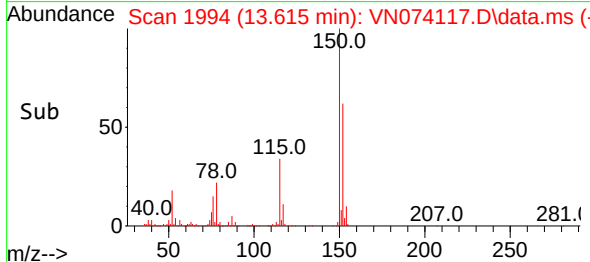
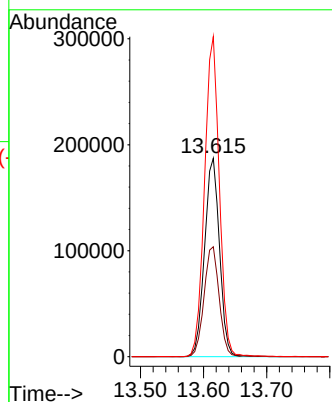
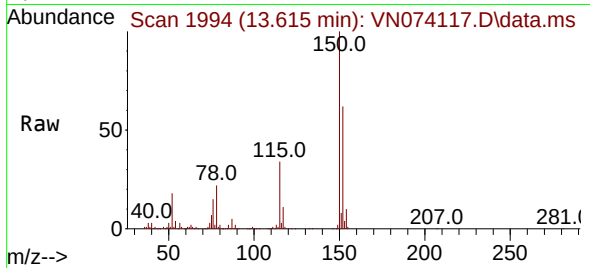




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.615 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

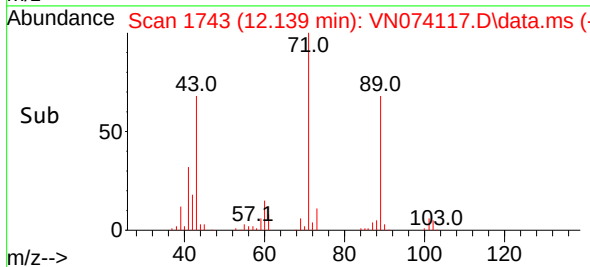
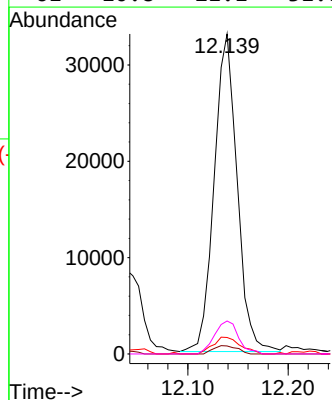
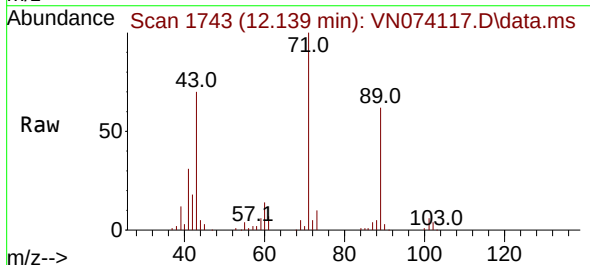
Instrument :
 MSVOA_N
 ClientSampleId :
 P1314211ZHE#02

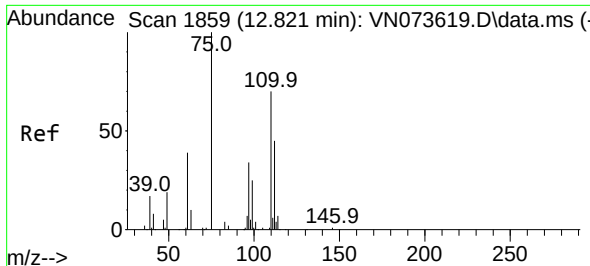
Tgt Ion:152 Resp: 307552
 Ion Ratio Lower Upper
 152 100
 115 56.1 28.9 86.7
 150 159.4 0.0 356.2



#74
 N-ethyl acetate
 Concen: 6.186 ug/l
 RT: 12.139 min Scan# 1743
 Delta R.T. -0.188 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

Tgt Ion: 43 Resp: 52369
 Ion Ratio Lower Upper
 43 100
 70 2.7 39.0 58.4#
 55 6.3 21.1 31.7#
 61 10.8 21.1 31.7#

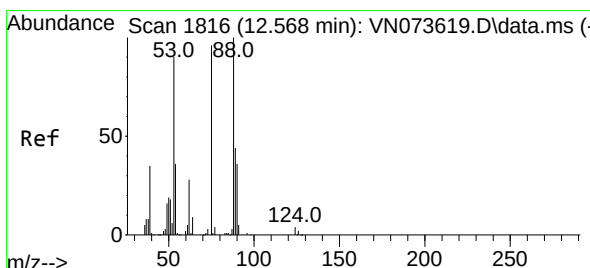
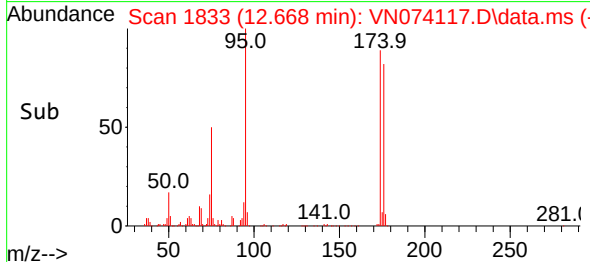
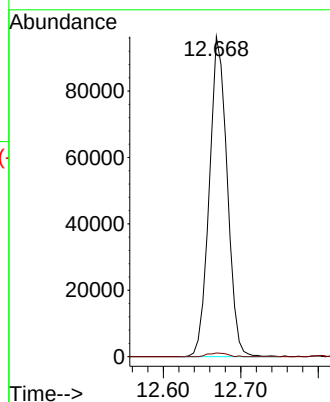
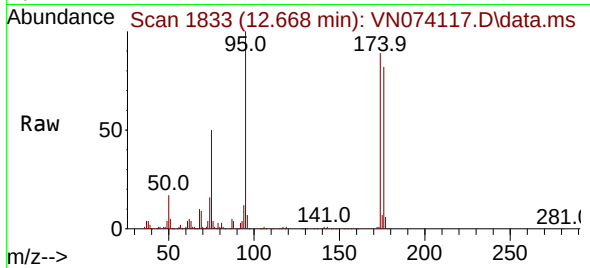




#76
 1,2,3-Trichloropropane
 Concen: 24.159 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. -0.153 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

Instrument :
 MSVOA_N
 ClientSampleId :
 P1314211ZHE#02

Tgt Ion: 75 Resp: 154438
 Ion Ratio Lower Upper
 75 100
 77 1.3 98.5 295.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.714 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. 0.100 min
 Lab File: VN074117.D
 Acq: 25 Aug 2022 16:23

Tgt Ion: 75 Resp: 154438
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.0 117.0#
 89 0.0 37.2 55.8#

