

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061924\
 Data File : VN082639.D
 Acq On : 19 Jun 2024 14:22
 Operator : JC\MD
 Sample : PB161542ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 03:01:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

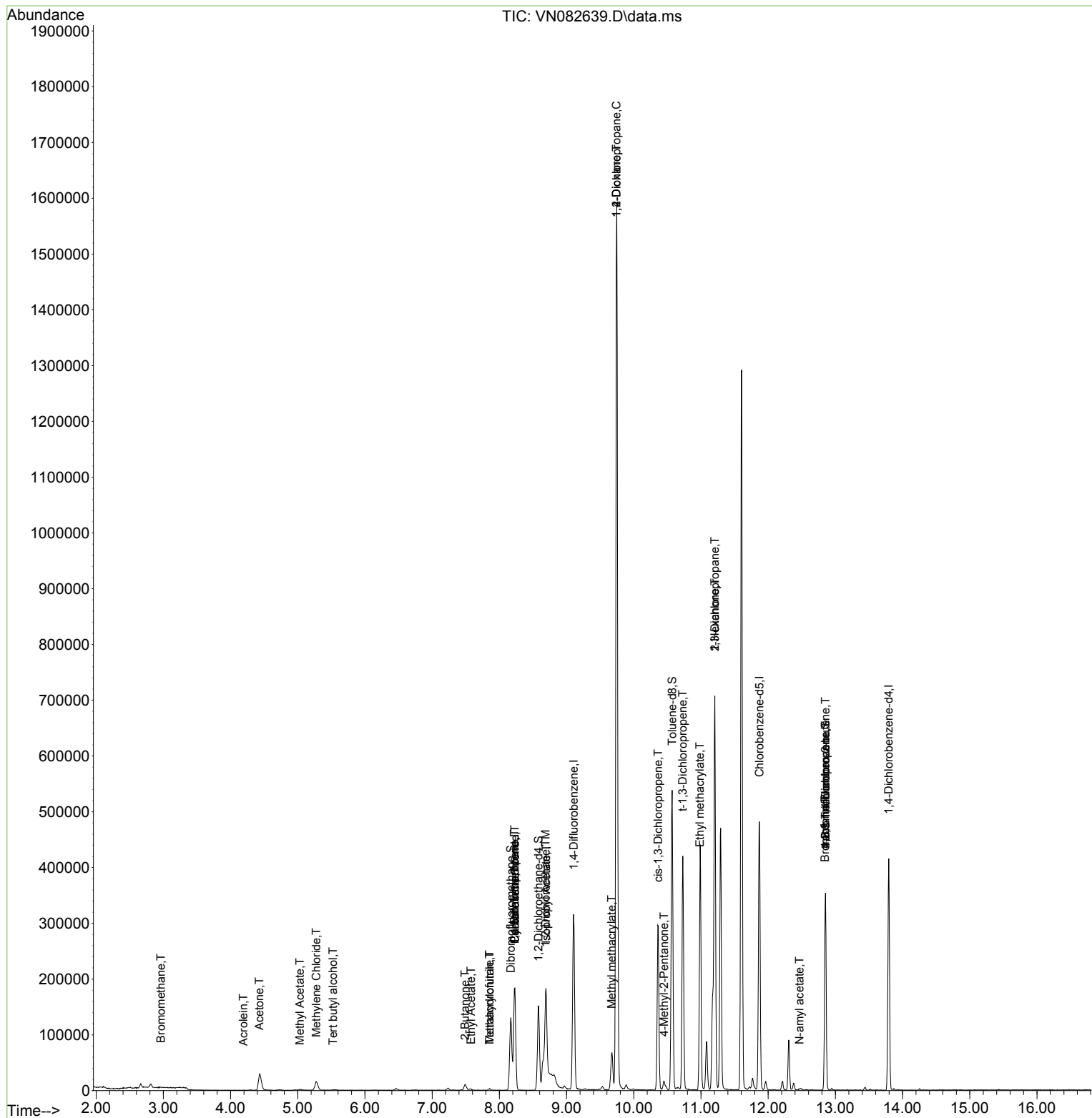
Internal Standards						
1) Pentafluorobenzene	8.230	168	130512	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	252268	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	258429	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	103172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	120428	57.540	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.080%			
35) Dibromofluoromethane	8.171	113	90235	52.727	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.460%			
50) Toluene-d8	10.571	98	340485	52.611	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.220%			
62) 4-Bromofluorobenzene	12.853	95	109133	48.912	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 97.820%			
Target Compounds						Qvalue
5) Bromomethane	2.965	94	562	0.420	ug/l #	59
11) Tert butyl alcohol	5.524	59	642	1.874	ug/l #	71
13) Acrolein	4.189	56	71	0.203	ug/l #	1
16) Acetone	4.430	43	60184	63.229	ug/l	95
18) Methyl Acetate	5.030	43	3413	1.466	ug/l #	70
20) Methylene Chloride	5.277	84	11363	6.790	ug/l	88
25) 2-Butanone	7.488	43	17607	13.014	ug/l	94
29) Tetrahydrofuran	7.853	42	2292	2.767	ug/l #	65
31) Cyclohexane	8.230	56	3931	1.301	ug/l #	40
36) 1,1-Dichloropropene	8.224	75	12038	4.705	ug/l #	52
37) Ethyl Acetate	7.577	43	4527	1.389	ug/l #	91
38) Carbon Tetrachloride	8.230	117	14275	4.951	ug/l #	17
41) Methacrylonitrile	7.853	41	1311	0.787	ug/l #	52
42) 1,2-Dichloroethane	8.688	62	907	0.302	ug/l #	78
43) Isopropyl Acetate	8.694	43	293462	48.186	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1747	0.859	ug/l #	44
48) Methyl methacrylate	9.671	41	5215	2.077	ug/l #	51
49) 1,4-Dioxane	9.741	88	142	3.616	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	15478	4.955	ug/l #	83
53) t-1,3-Dichloropropene	10.729	75	775	0.258	ug/l	93
54) cis-1,3-Dichloropropene	10.365	75	45453	14.622	ug/l #	67
56) Ethyl methacrylate	10.982	69	2204	0.767	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6966	2.173	ug/l #	43
59) 2-Hexanone	11.206	43	110656	46.608	ug/l #	55
71) Bromoform	12.847	173	844	0.505	ug/l #	1
74) N-amyl acetate	12.465	43	1740	0.416	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	64764	25.665	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	64764	61.402	ug/l #	6

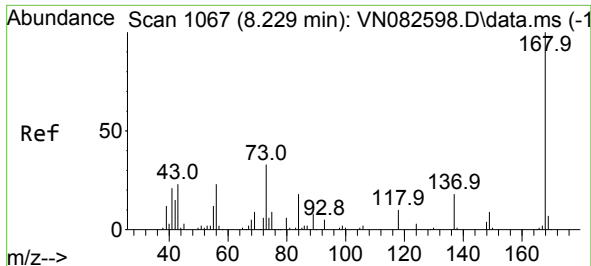
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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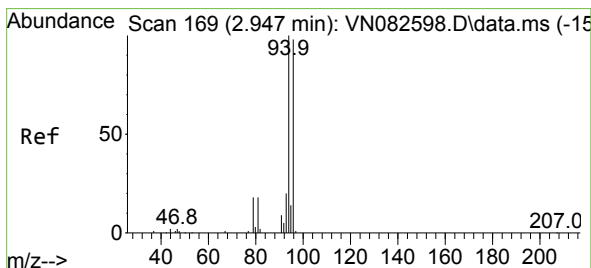
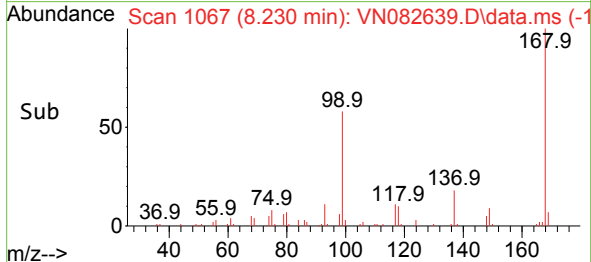
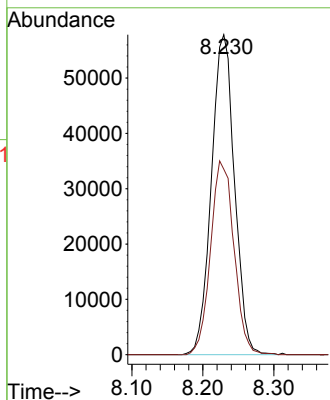
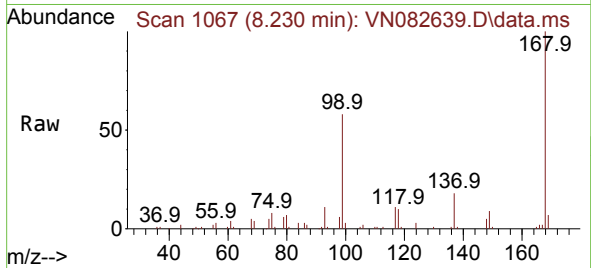




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

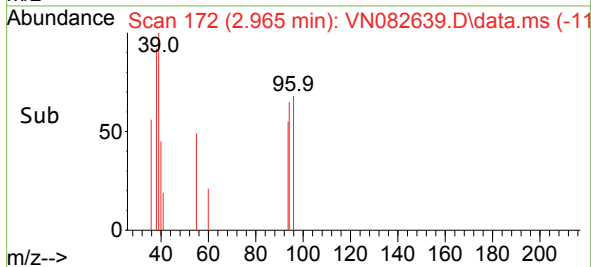
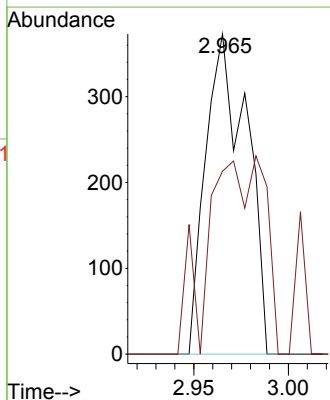
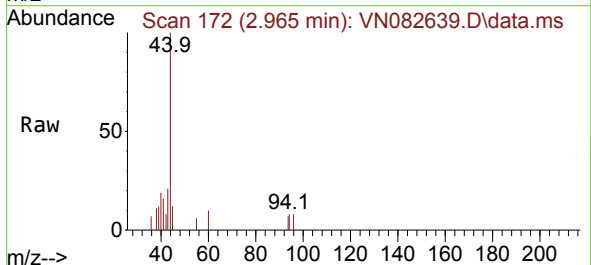
Instrument :
MSVOA_N
ClientSampleId :

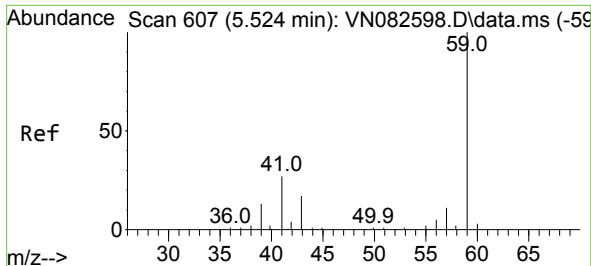
Tgt Ion:168 Resp: 130512
Ion Ratio Lower Upper
168 100
99 58.0 48.2 72.4



#5
Bromomethane
Concen: 0.420 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.018 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

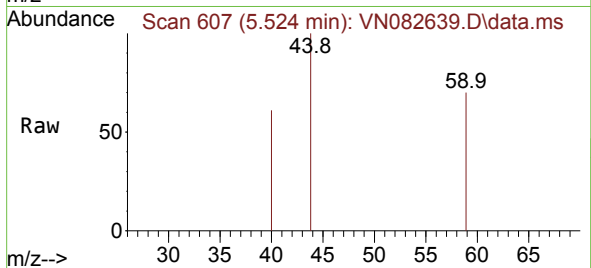
Tgt Ion: 94 Resp: 562
Ion Ratio Lower Upper
94 100
96 57.1 78.0 117.0#



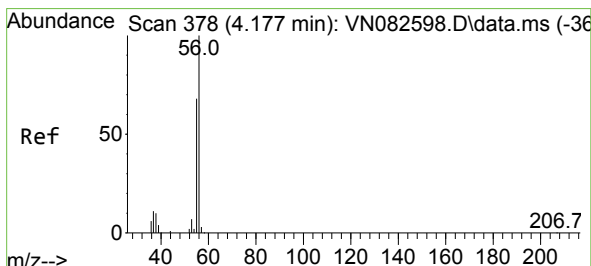
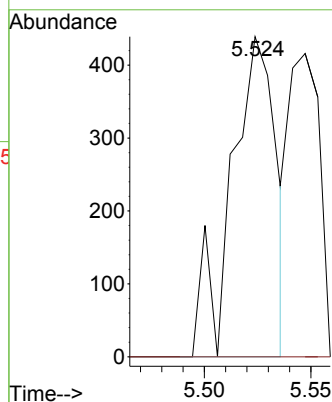
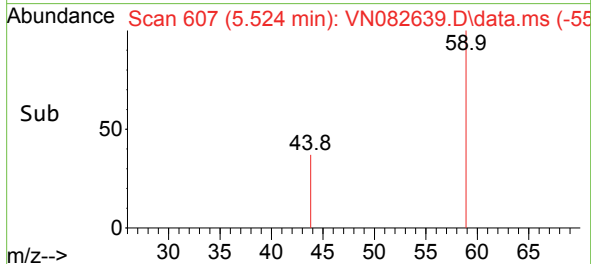


#11
Tert butyl alcohol
Concen: 1.874 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Instrument :
MSVOA_N
ClientSampleId :

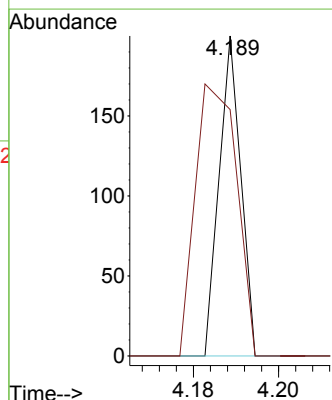
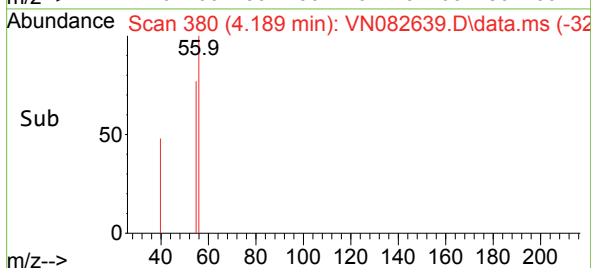
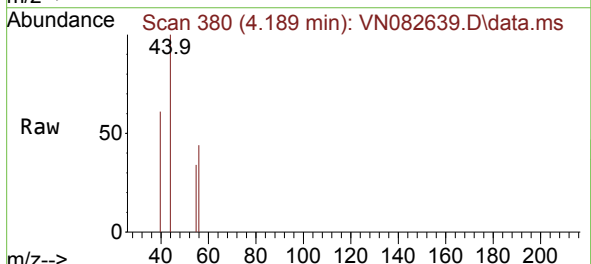


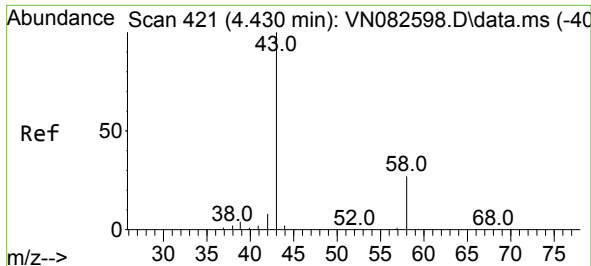
Tgt Ion: 59 Resp: 642
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



#13
Acrolein
Concen: 0.203 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion: 56 Resp: 71
Ion Ratio Lower Upper
56 100
55 160.6 56.4 84.6#

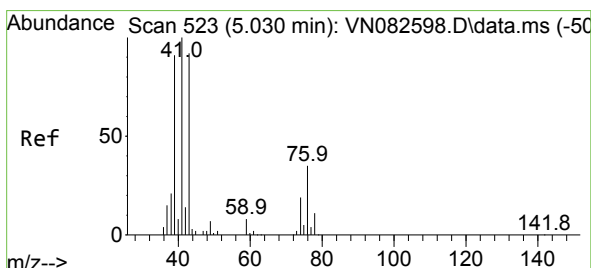
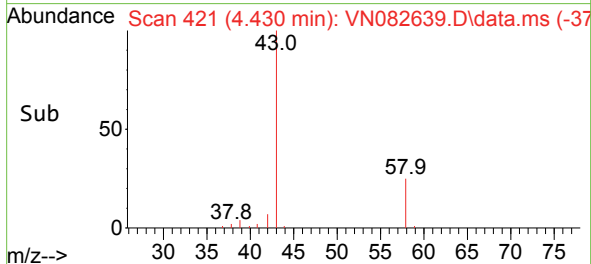
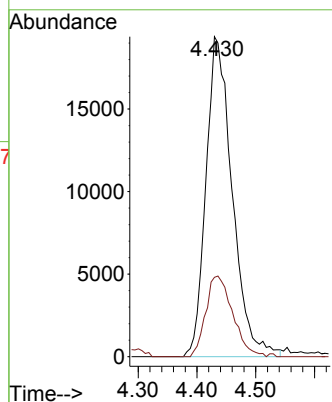
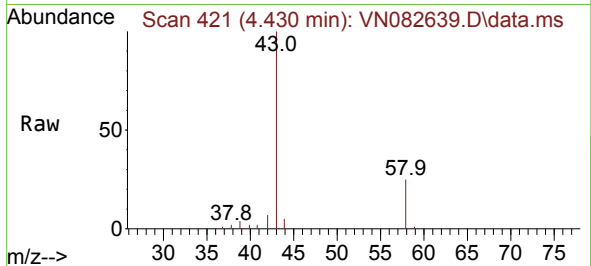




#16
Acetone
Concen: 63.229 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

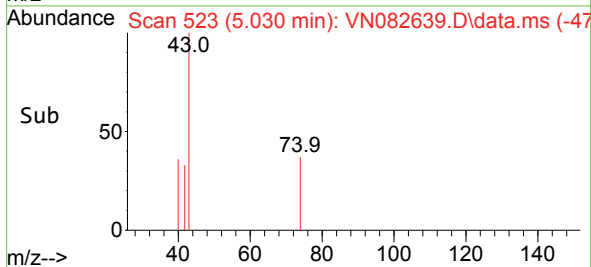
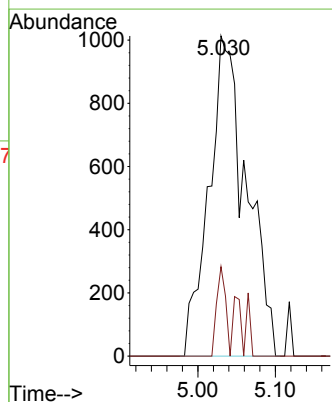
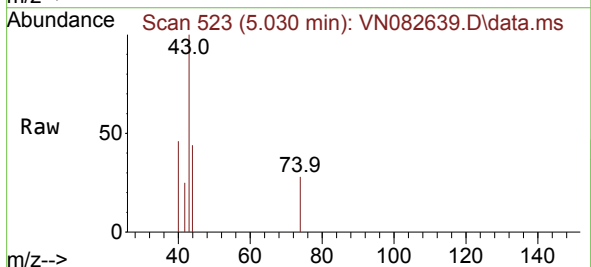
Instrument :
MSVOA_N
ClientSampleId :

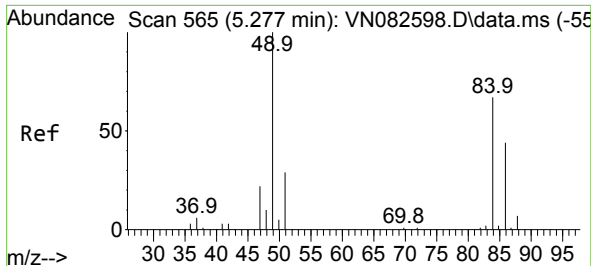
Tgt Ion: 43 Resp: 60184
Ion Ratio Lower Upper
43 100
58 24.8 21.8 32.6



#18
Methyl Acetate
Concen: 1.466 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

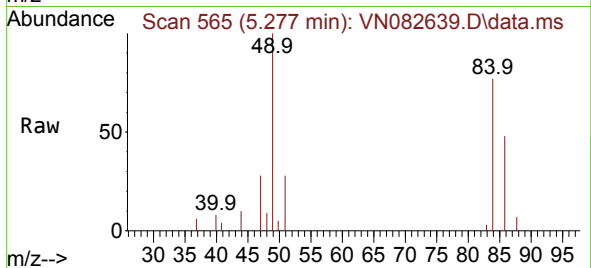
Tgt Ion: 43 Resp: 3413
Ion Ratio Lower Upper
43 100
74 6.6 16.3 24.5#



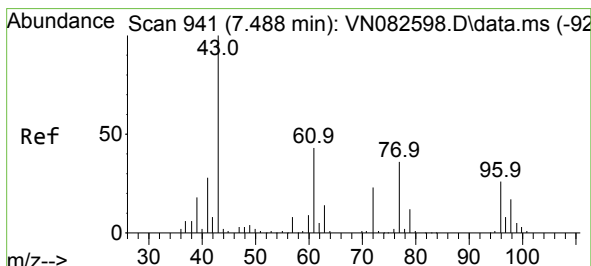
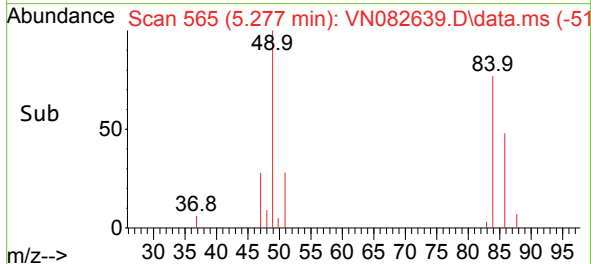
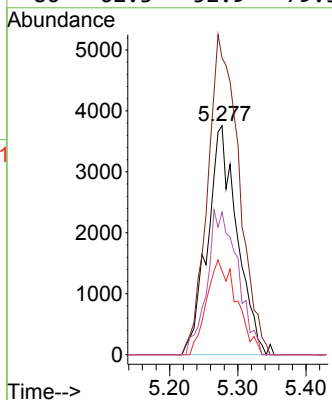


#20
Methylene Chloride
Concen: 6.790 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Instrument :
MSVOA_N
ClientSampleId :

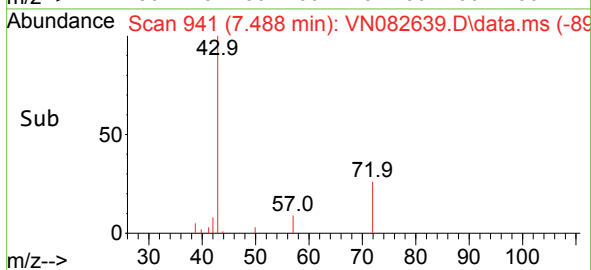
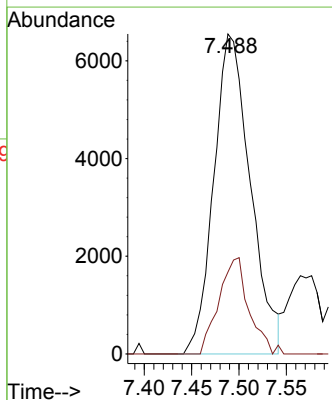
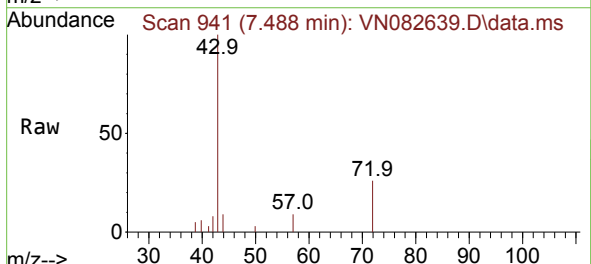


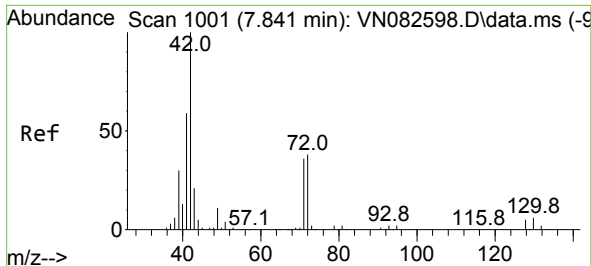
Tgt Ion:	84	Resp:	11363
Ion	Ratio	Lower	Upper
84	100		
49	129.7	119.6	179.4
51	36.5	34.8	52.2
86	62.3	52.9	79.3



#25
2-Butanone
Concen: 13.014 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion:	43	Resp:	17607
Ion	Ratio	Lower	Upper
43	100		
72	25.6	18.2	27.2

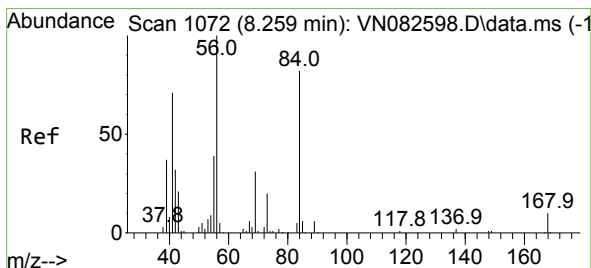
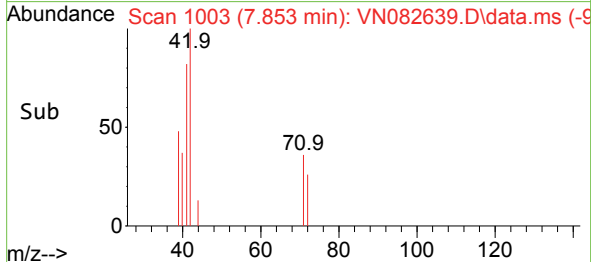
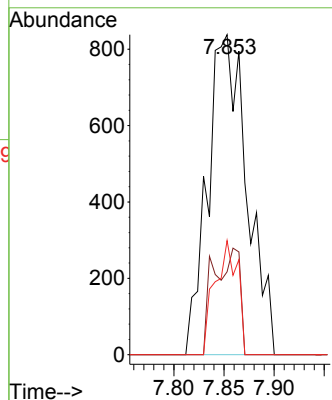
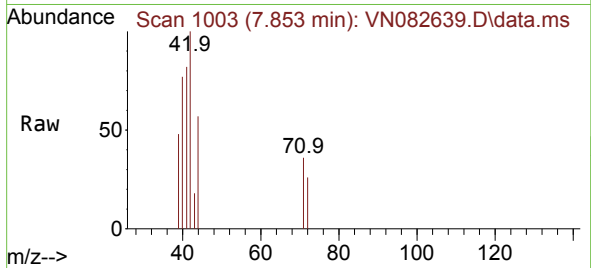




#29
Tetrahydrofuran
Concen: 2.767 ug/l
RT: 7.853 min Scan# 10
Delta R.T. 0.012 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

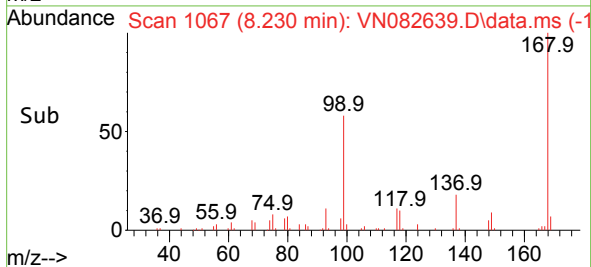
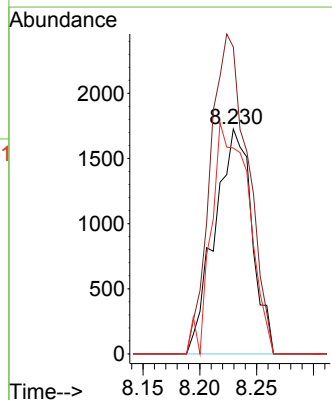
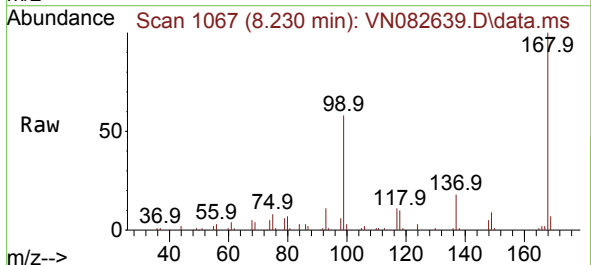
Instrument :
MSVOA_N
ClientSampleId :

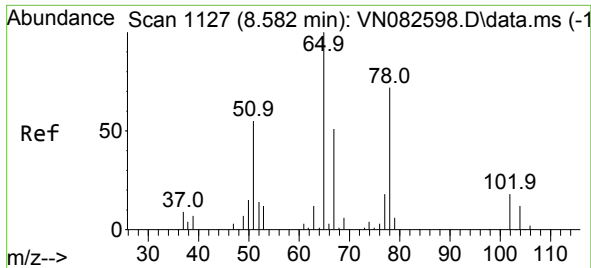
Tgt Ion: 42 Resp: 2292
Ion Ratio Lower Upper
42 100
72 11.8 30.0 45.0#
71 20.3 28.3 42.5#



#31
Cyclohexane
Concen: 1.301 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion: 56 Resp: 3931
Ion Ratio Lower Upper
56 100
69 136.4 24.5 36.7#
84 91.5 66.0 99.0





#33

1,2-Dichloroethane-d4

Concen: 57.540 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

Instrument :

MSVOA_N

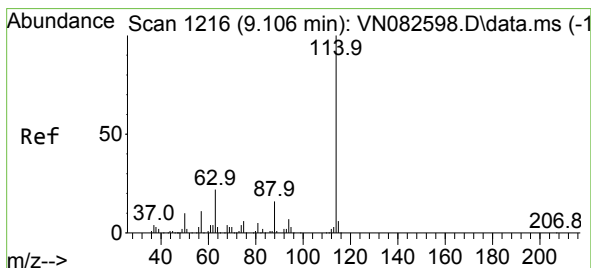
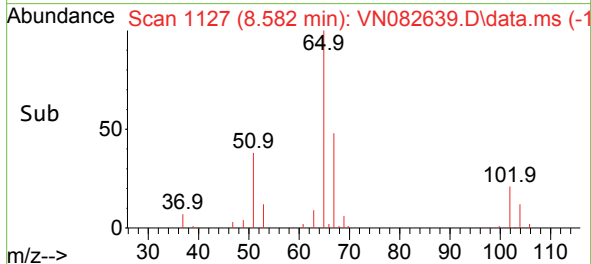
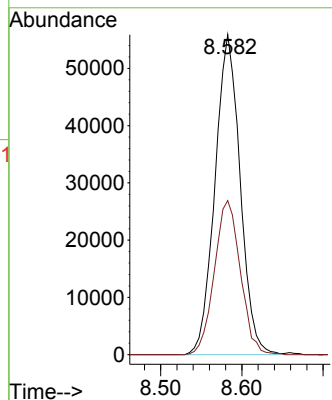
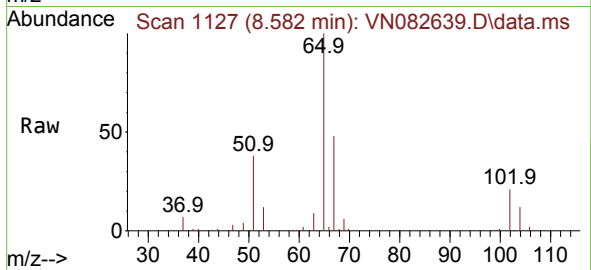
ClientSampleId :

Tgt Ion: 65 Resp: 120428

Ion Ratio Lower Upper

65 100

67 49.7 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

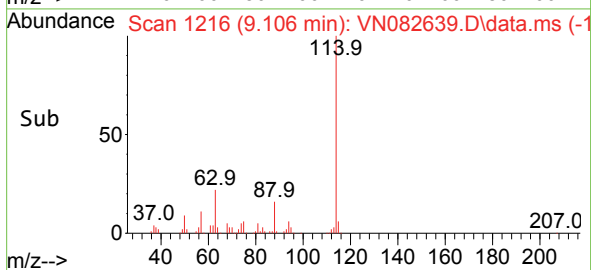
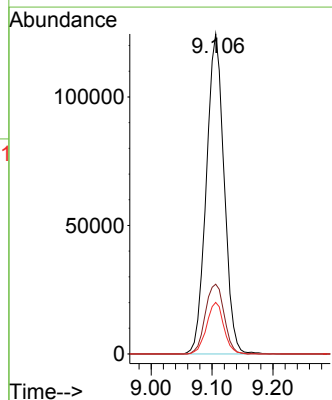
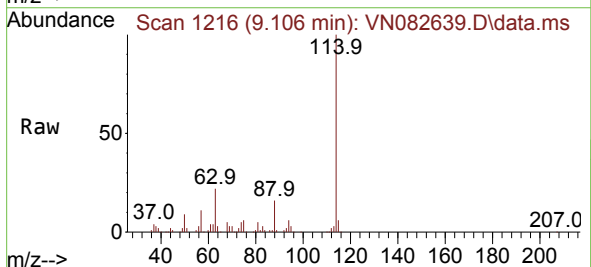
Tgt Ion: 114 Resp: 252268

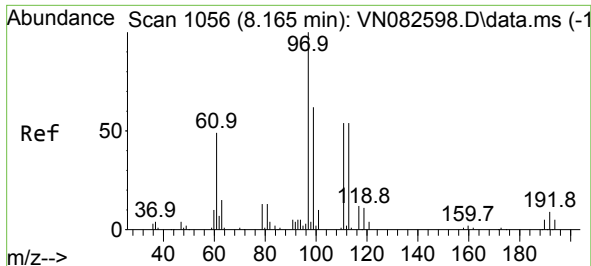
Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.6

88 16.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.727 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

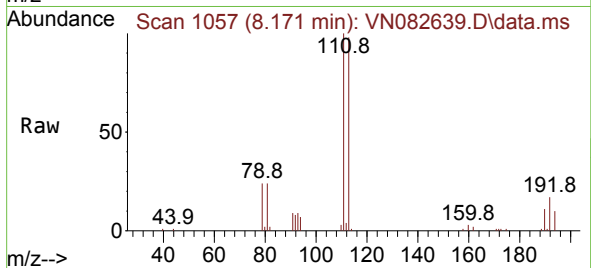
Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

Instrument :

MSVOA_N

ClientSampleId :



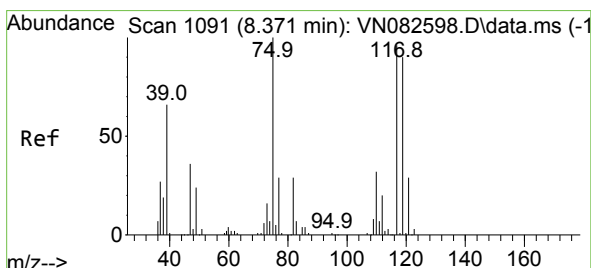
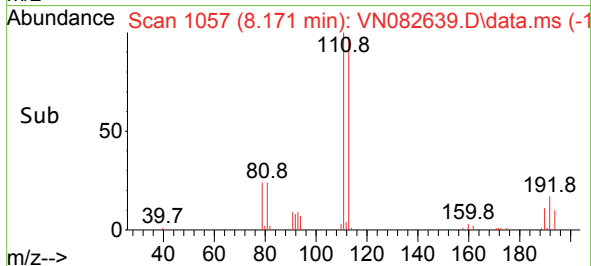
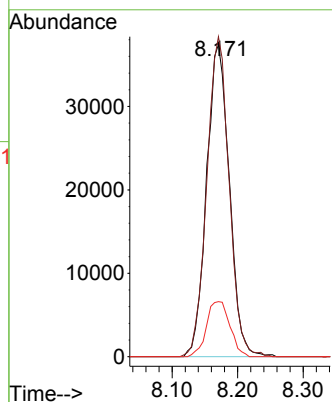
Tgt Ion:113 Resp: 90235

Ion Ratio Lower Upper

113 100

111 100.5 82.4 123.6

192 18.2 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.705 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

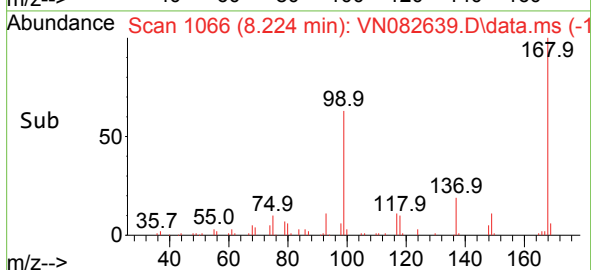
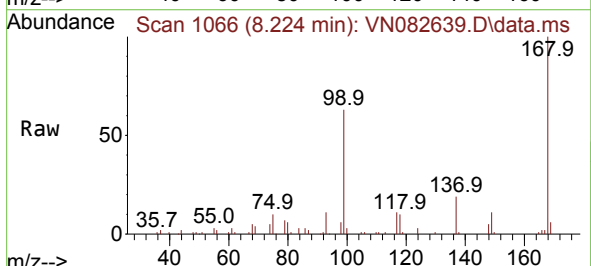
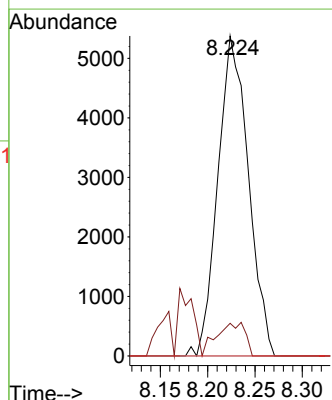
Tgt Ion: 75 Resp: 12038

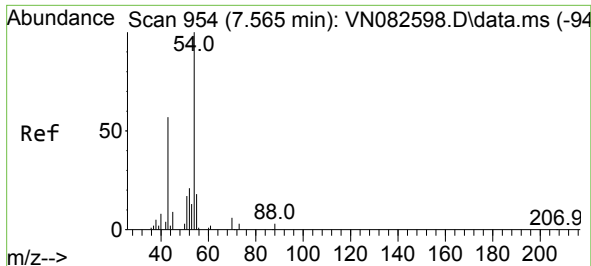
Ion Ratio Lower Upper

75 100

110 9.7 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.389 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.012 min

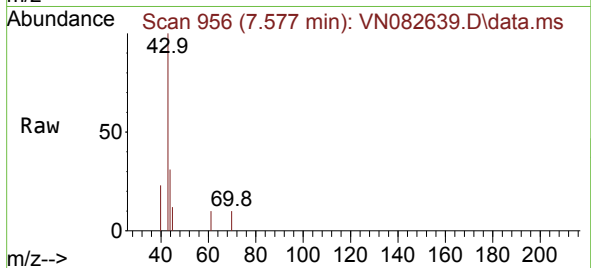
Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

Instrument :

MSVOA_N

ClientSampleId :



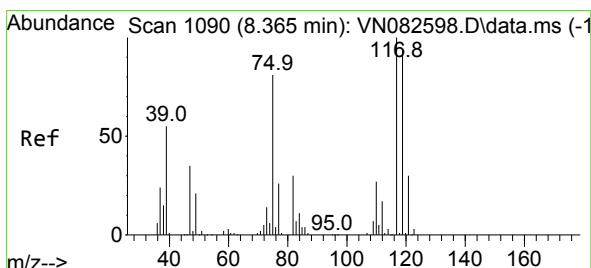
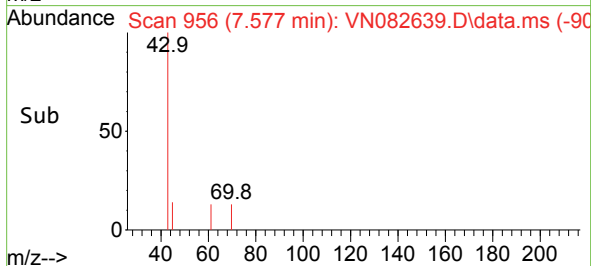
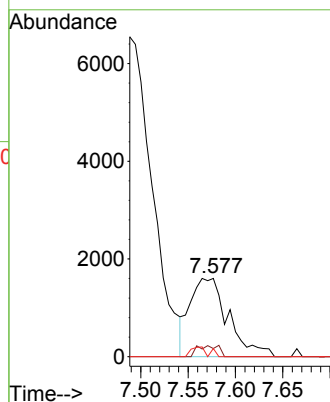
Tgt Ion: 43 Resp: 4527

Ion Ratio Lower Upper

43 100

61 7.8 9.3 13.9#

70 5.6 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.951 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

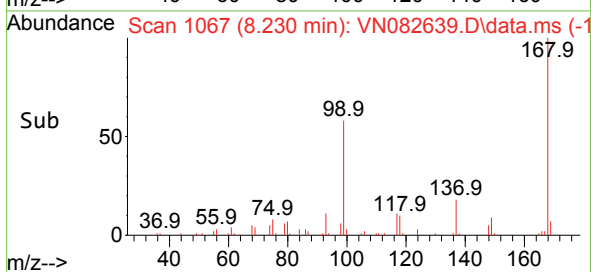
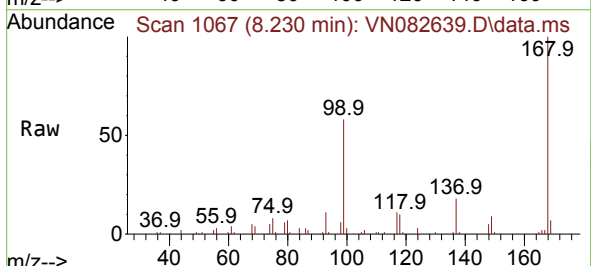
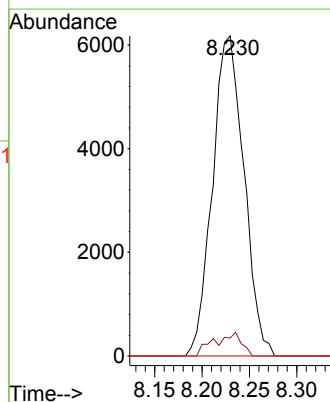
Tgt Ion: 117 Resp: 14275

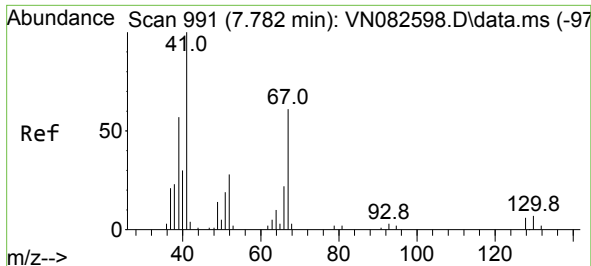
Ion Ratio Lower Upper

117 100

119 5.6 74.9 112.3#

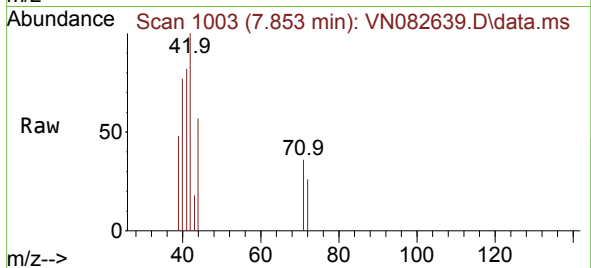
121 0.0 24.3 36.5#



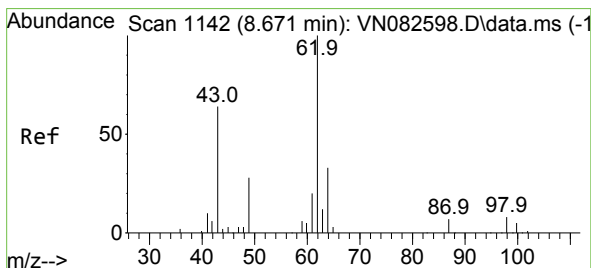
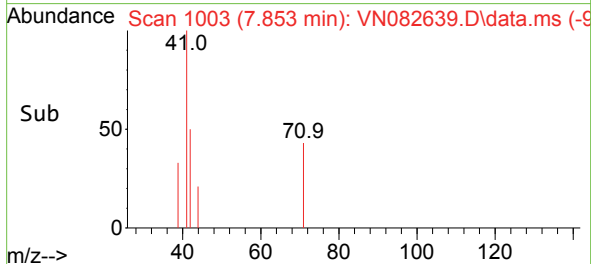
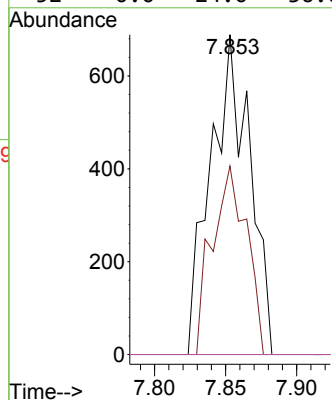


#41
Methacrylonitrile
Concen: 0.787 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.071 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Instrument :
MSVOA_N
ClientSampleId :

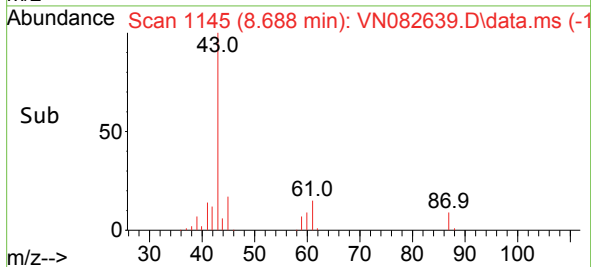
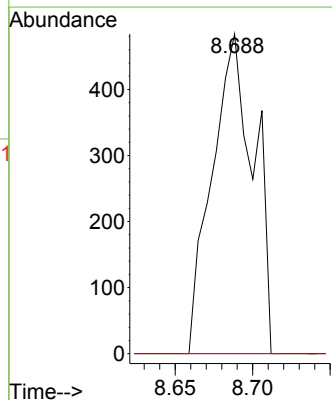
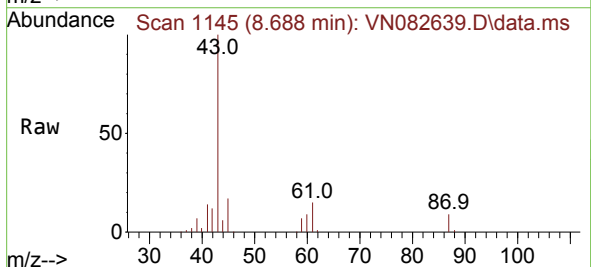


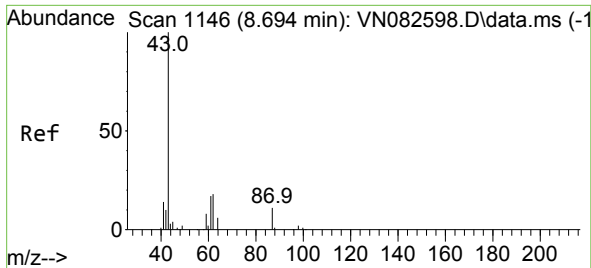
Tgt Ion: 41 Resp: 1311
Ion Ratio Lower Upper
41 100
39 52.3 45.5 68.3
67 0.0 50.5 75.7#
52 0.0 24.0 36.0#



#42
1,2-Dichloroethane
Concen: 0.302 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion: 62 Resp: 907
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.8

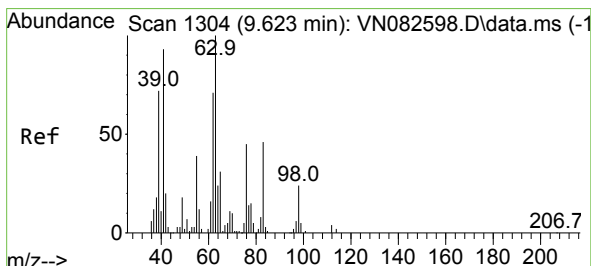
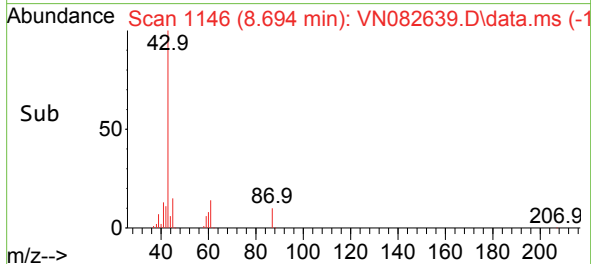
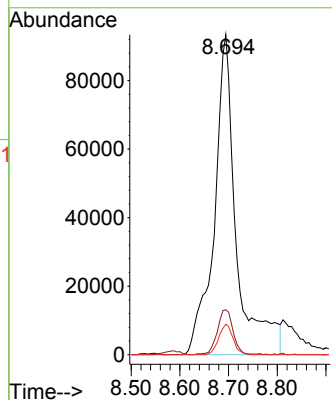
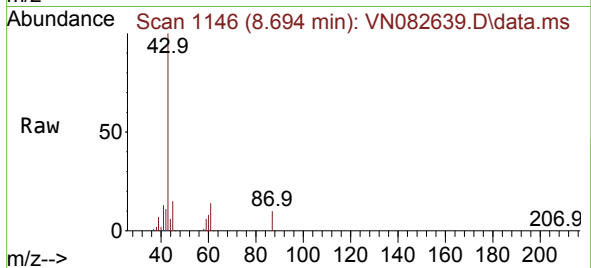




#43
Isopropyl Acetate
Concen: 48.186 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

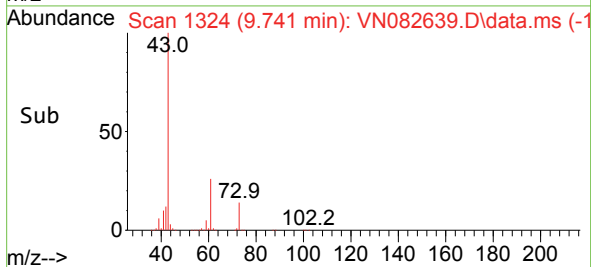
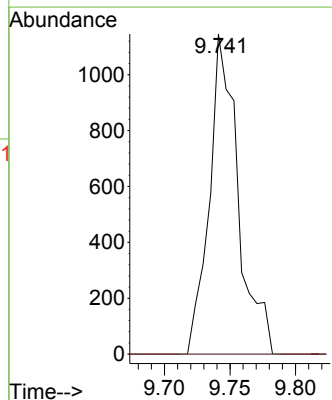
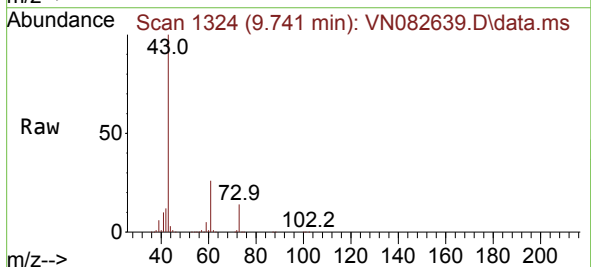
Instrument :
MSVOA_N
ClientSampleId :

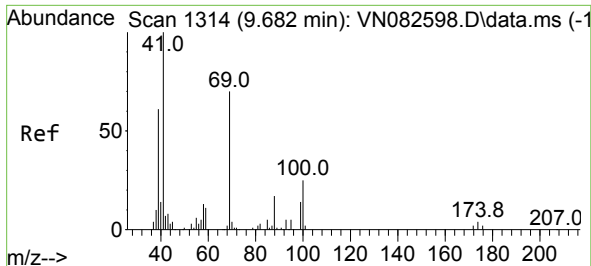
Tgt Ion: 43 Resp: 293462
Ion Ratio Lower Upper
43 100
61 10.0 17.8 26.6#
87 6.1 8.2 12.2#



#45
1,2-Dichloropropane
Concen: 0.859 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

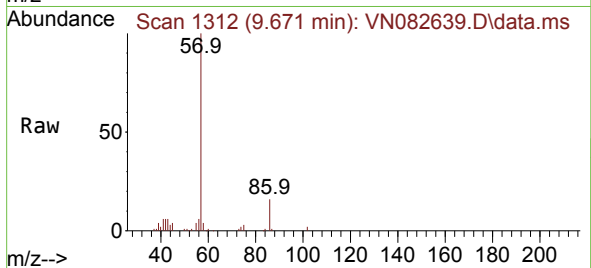
Tgt Ion: 63 Resp: 1747
Ion Ratio Lower Upper
63 100
65 0.0 24.4 36.6#



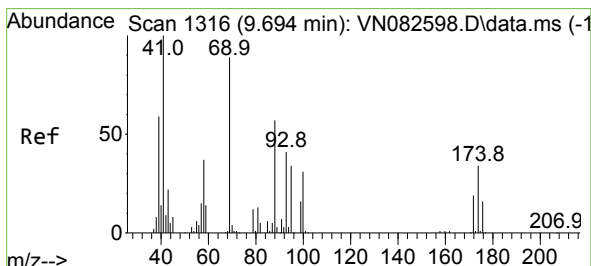
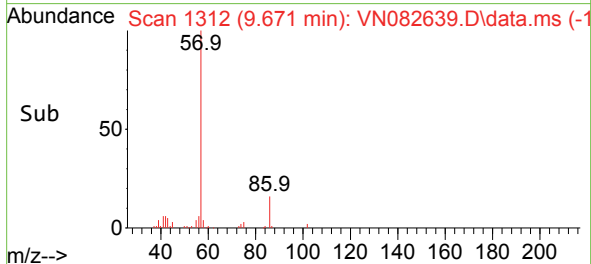
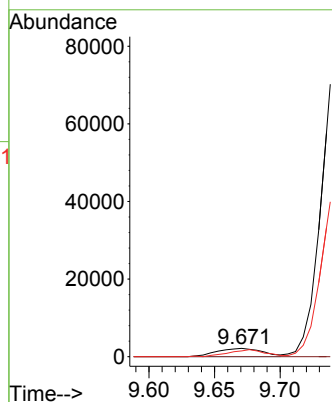


#48
Methyl methacrylate
Concen: 2.077 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Instrument :
MSVOA_N
ClientSampleId :

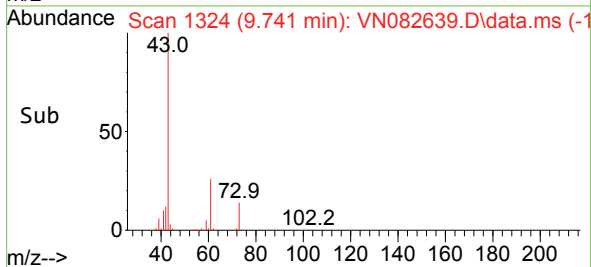
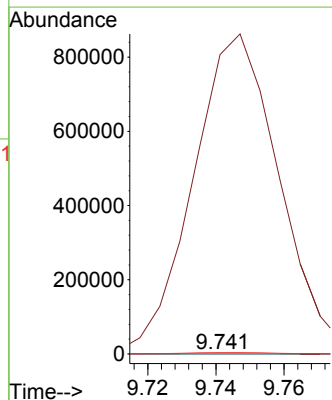
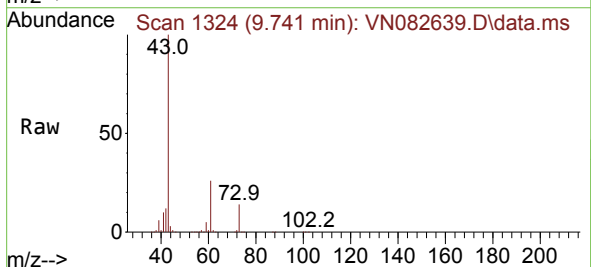


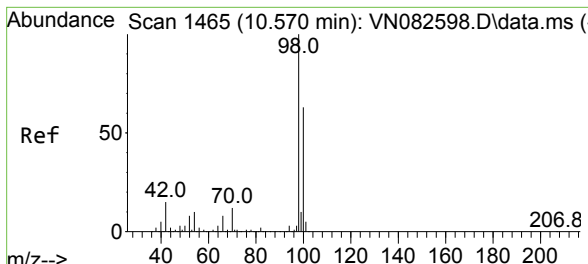
Tgt Ion: 41 Resp: 5215
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 69.1 50.3 75.5



#49
1,4-Dioxane
Concen: 3.616 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 1069916.9 27.8 41.8#
58 4960.6 59.4 89.0#

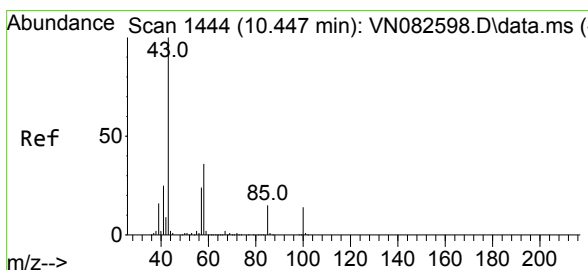
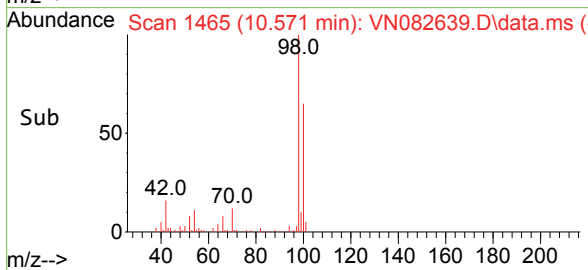
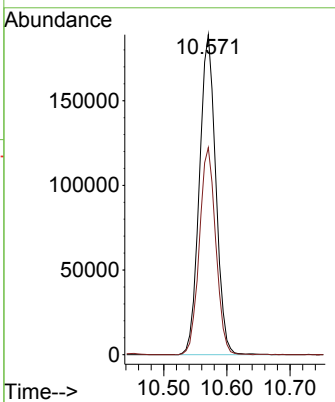
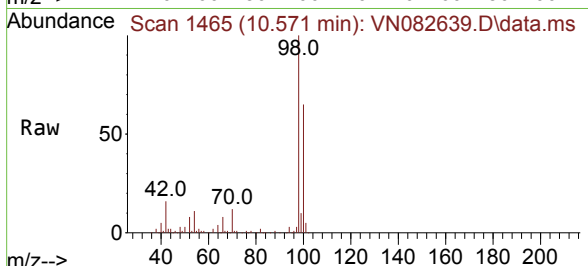




#50
Toluene-d8
Concen: 52.611 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

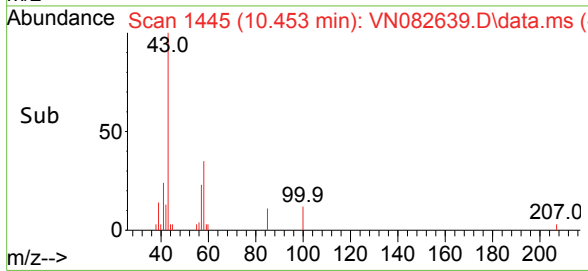
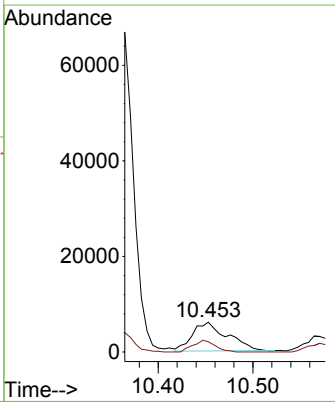
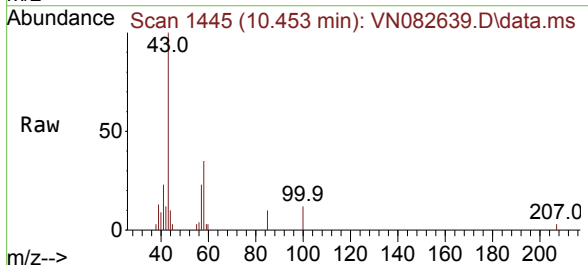
Instrument :
MSVOA_N
ClientSampleId :

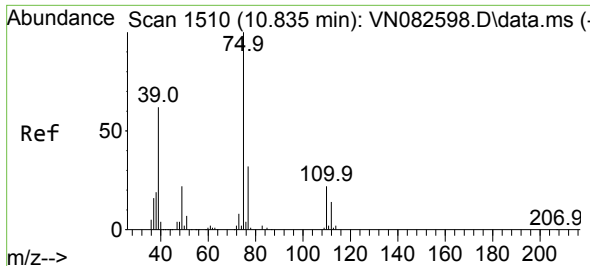
Tgt Ion: 98 Resp: 340485
Ion Ratio Lower Upper
98 100
100 64.8 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 4.955 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

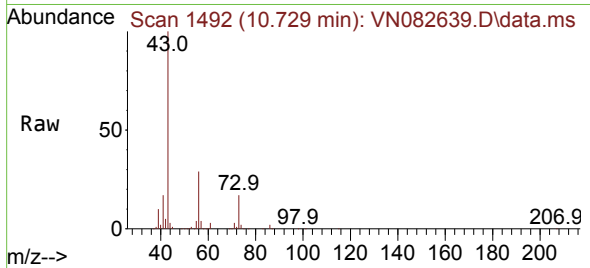
Tgt Ion: 43 Resp: 15478
Ion Ratio Lower Upper
43 100
58 25.6 28.2 42.4#



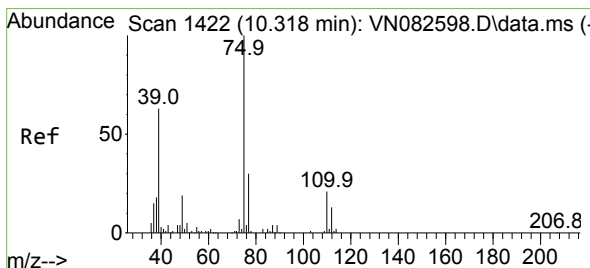
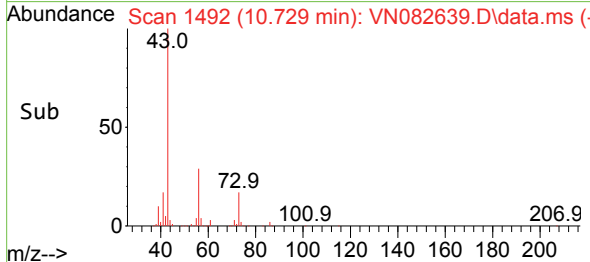
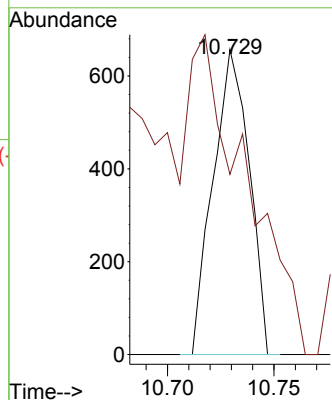


#53
 t-1,3-Dichloropropene
 Concen: 0.258 ug/l
 RT: 10.729 min Scan# 14
 Delta R.T. -0.106 min
 Lab File: VN082639.D
 Acq: 19 Jun 2024 14:22

Instrument :
 MSVOA_N
 ClientSampleId :

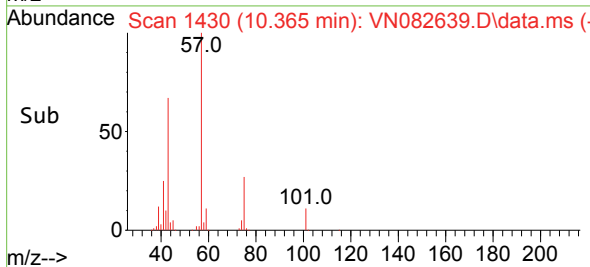
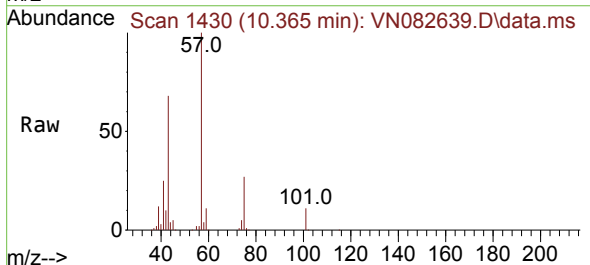
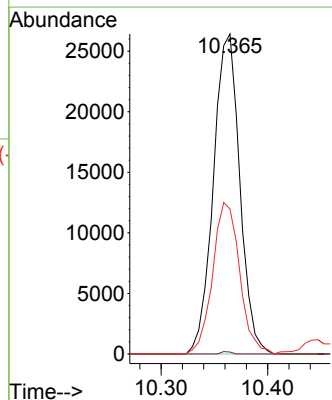


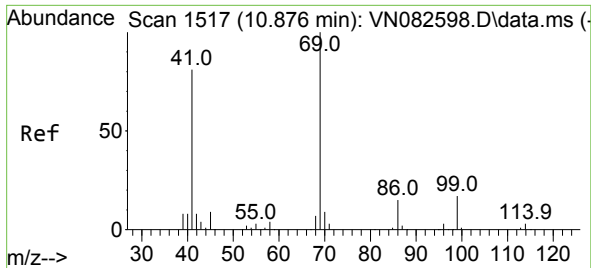
Tgt Ion: 75 Resp: 775
 Ion Ratio Lower Upper
 75 100
 77 28.2 25.7 38.5



#54
 cis-1,3-Dichloropropene
 Concen: 14.622 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN082639.D
 Acq: 19 Jun 2024 14:22

Tgt Ion: 75 Resp: 45453
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.3 36.5#
 39 45.3 50.5 75.7#

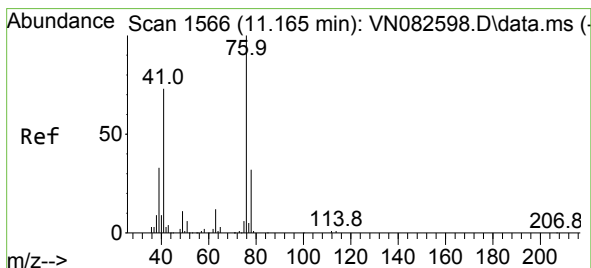
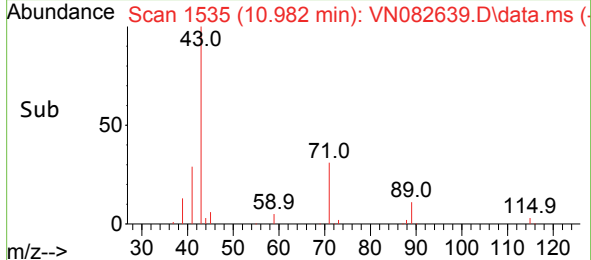
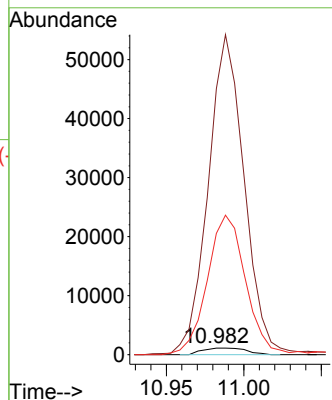
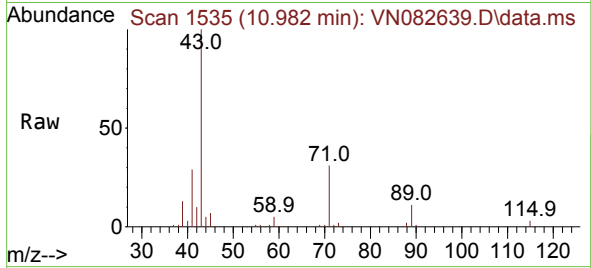




#56
Ethyl methacrylate
Concen: 0.767 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

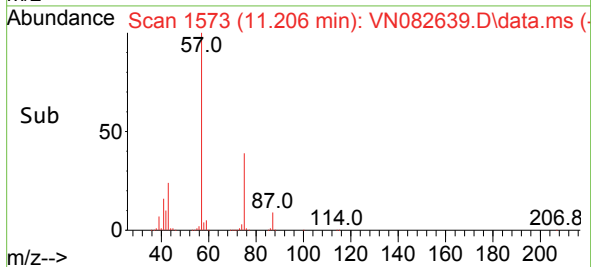
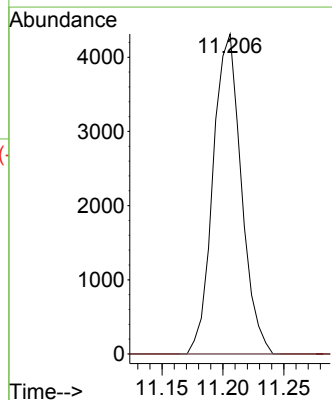
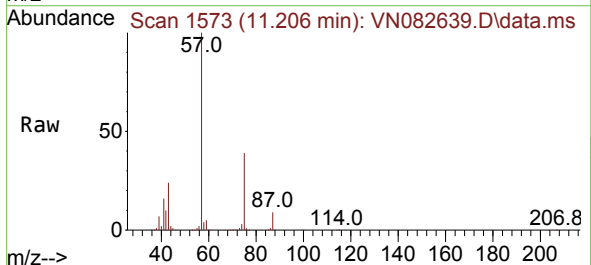
Instrument :
MSVOA_N
ClientSampleId :

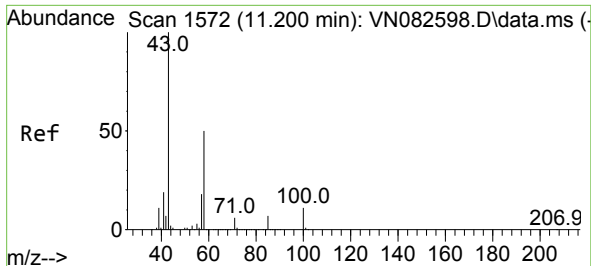
Tgt Ion: 69 Resp: 2204
Ion Ratio Lower Upper
69 100
41 3995.2 63.4 95.2#
39 1847.0 37.4 56.0#



#57
1,3-Dichloropropane
Concen: 2.173 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion: 76 Resp: 6966
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

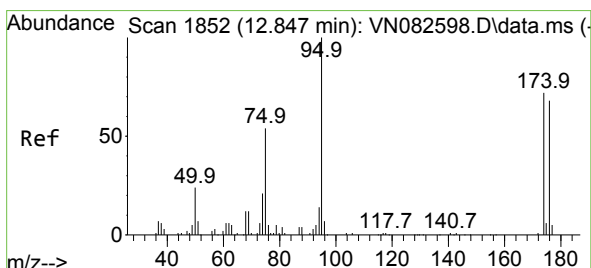
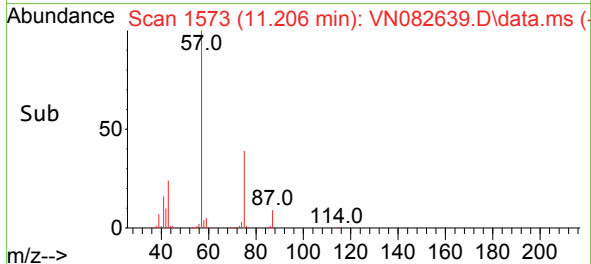
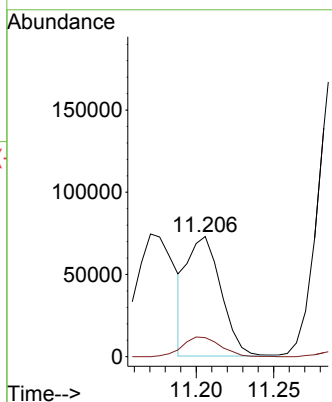
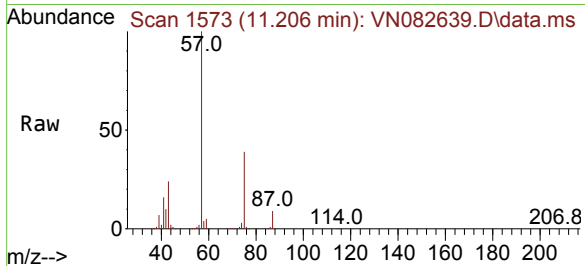




#59
2-Hexanone
Concen: 46.608 ug/l
RT: 11.206 min Scan# 110656
Delta R.T. 0.006 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

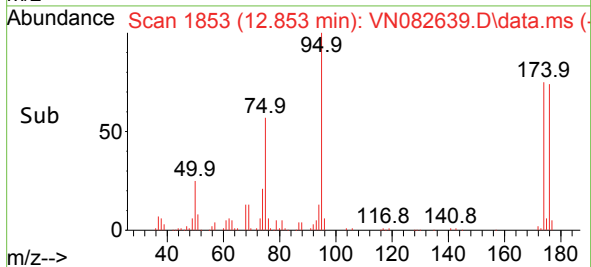
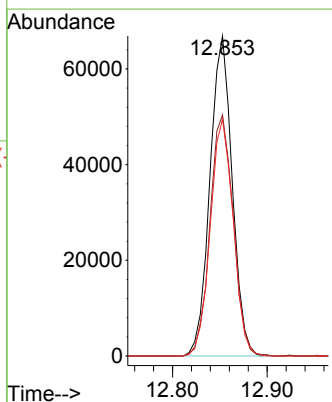
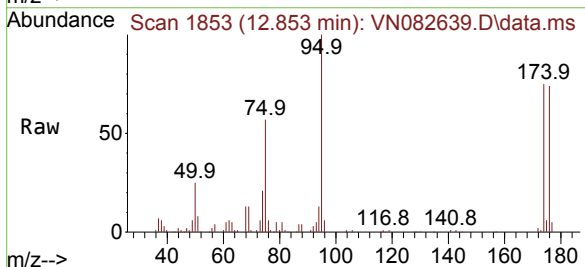
Instrument :
MSVOA_N
ClientSampleId :

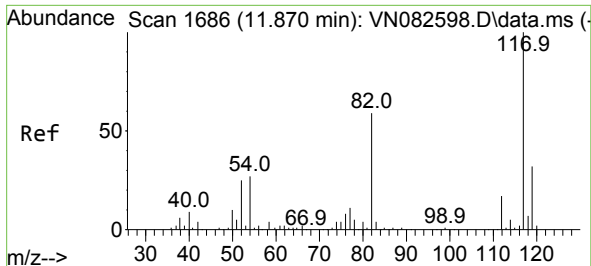
Tgt Ion: 43 Resp: 110656
Ion Ratio Lower Upper
43 100
58 18.5 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 48.912 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

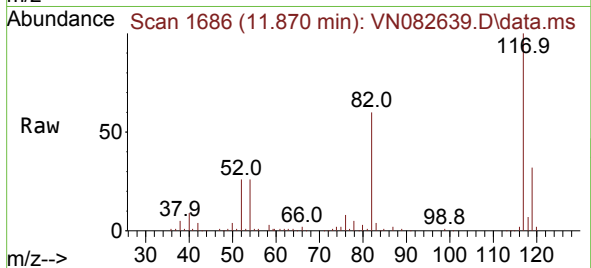
Tgt Ion: 95 Resp: 109133
Ion Ratio Lower Upper
95 100
174 79.0 0.0 159.2
176 76.0 0.0 147.6



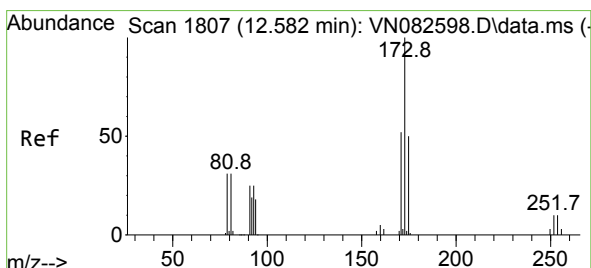
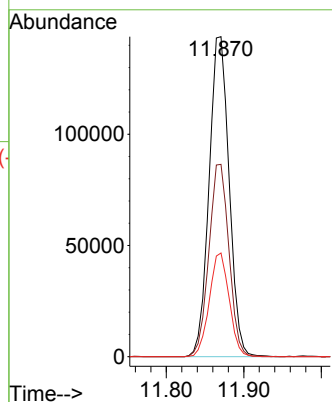
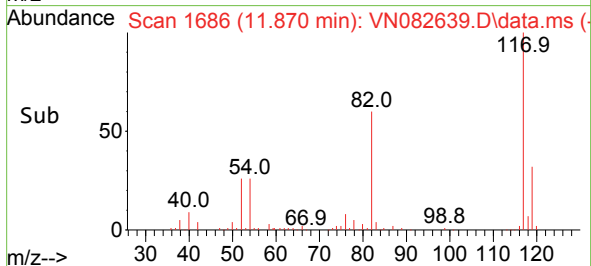


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Instrument :
MSVOA_N
ClientSampleId :

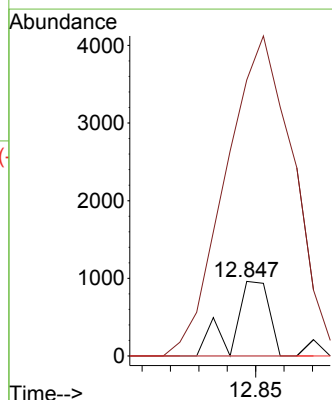
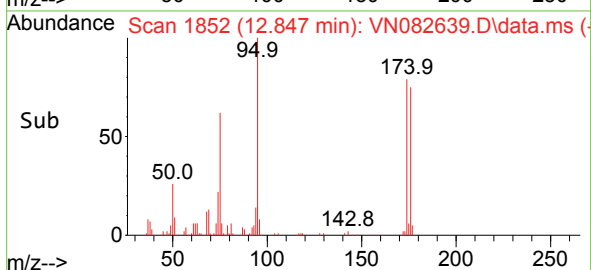
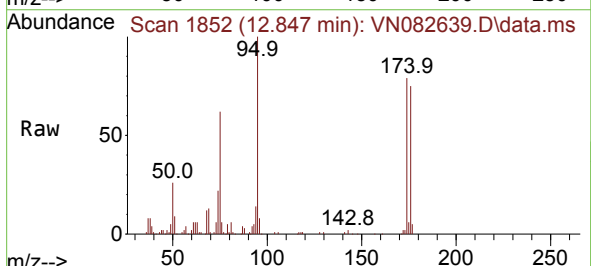


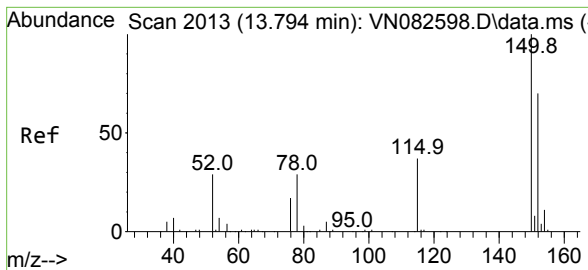
Tgt Ion:117 Resp: 258429
Ion Ratio Lower Upper
117 100
82 60.1 47.5 71.3
119 32.4 25.6 38.4



#71
Bromoform
Concen: 0.505 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN082639.D
Acq: 19 Jun 2024 14:22

Tgt Ion:173 Resp: 844
Ion Ratio Lower Upper
173 100
175 663.5 24.0 72.0#
254 0.0 0.0 0.0

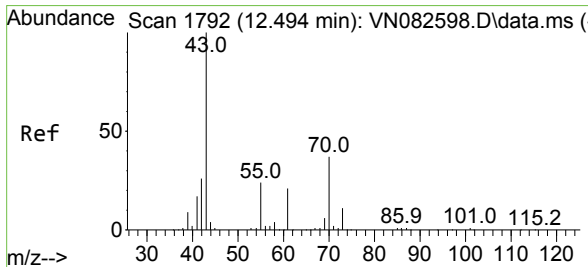
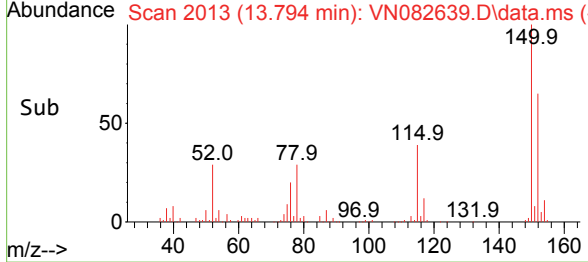
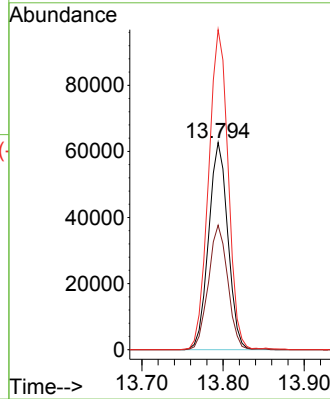
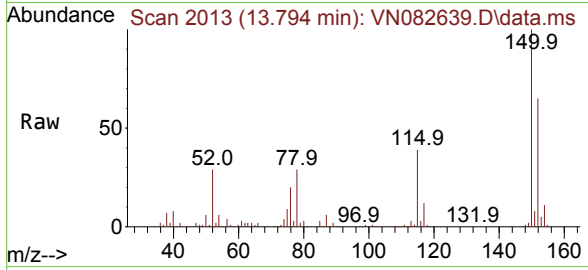




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN082639.D
 Acq: 19 Jun 2024 14:22

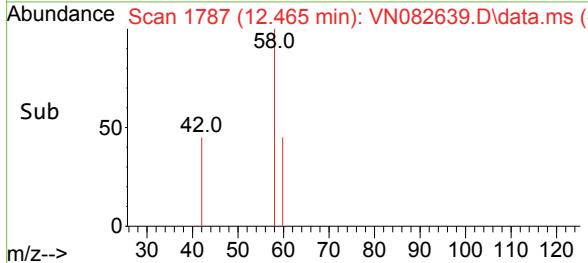
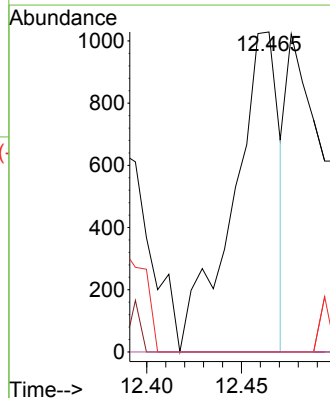
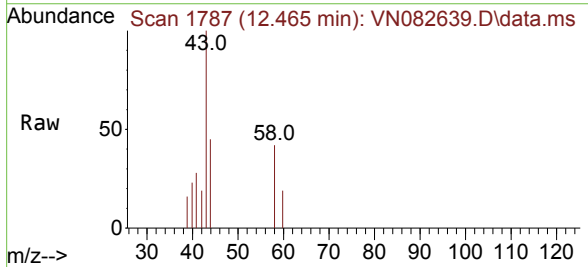
Instrument :
 MSVOA_N
 ClientSampleId :

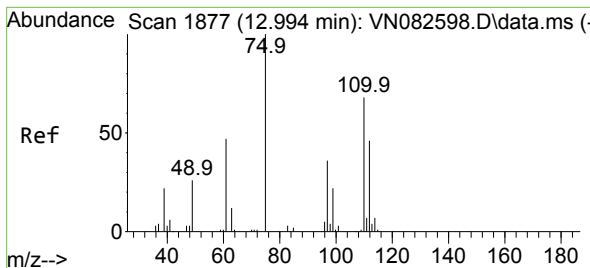
Tgt Ion:152 Resp: 103172
 Ion Ratio Lower Upper
 152 100
 115 60.6 30.6 91.6
 150 156.9 0.0 348.6



#74
 N-ethyl acetate
 Concen: 0.416 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.029 min
 Lab File: VN082639.D
 Acq: 19 Jun 2024 14:22

Tgt Ion: 43 Resp: 1740
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.8 44.6#
 55 0.0 18.7 28.1#
 61 0.0 17.4 26.0#





#76

1,2,3-Trichloropropane

Concen: 25.665 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

Instrument :

MSVOA_N

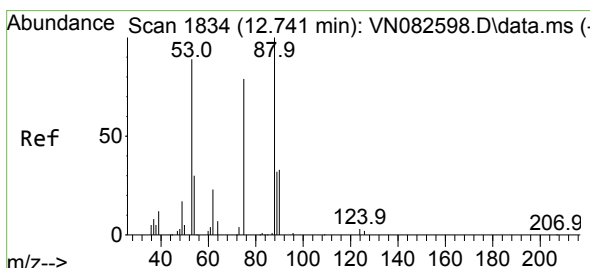
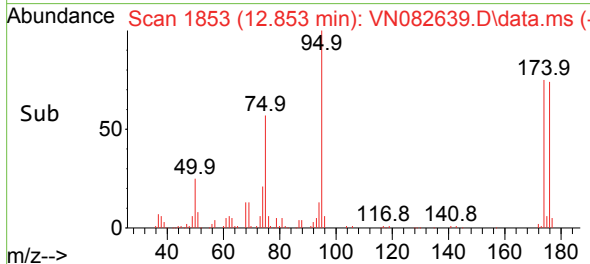
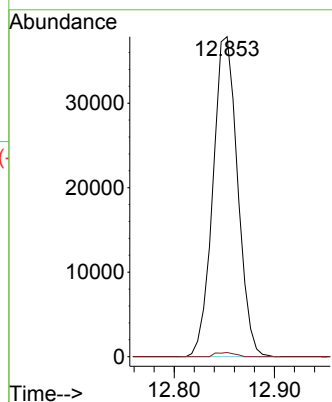
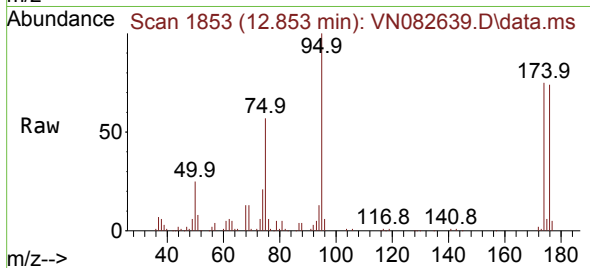
ClientSampleId :

Tgt Ion: 75 Resp: 64764

Ion Ratio Lower Upper

75 100

77 1.0 110.9 332.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.402 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN082639.D

Acq: 19 Jun 2024 14:22

Tgt Ion: 75 Resp: 64764

Ion Ratio Lower Upper

75 100

53 0.2 88.4 132.6#

89 0.0 36.3 54.5#

