

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061924\
 Data File : VN082637.D
 Acq On : 19 Jun 2024 13:33
 Operator : JC\MD
 Sample : PB161542ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 03:00:11 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)

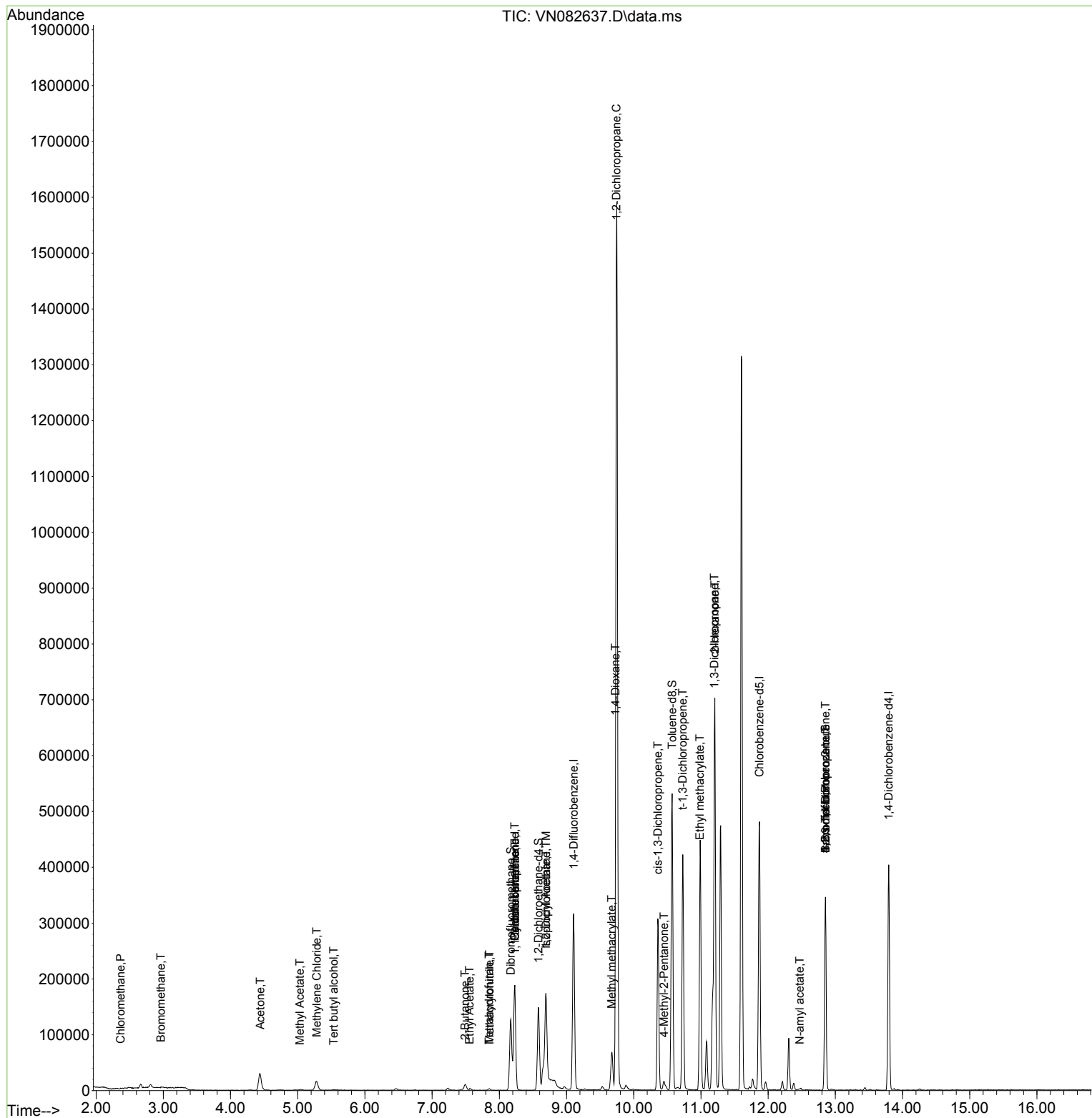
Internal Standards						
1) Pentafluorobenzene	8.230	168	129565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	247496	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	259494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	118489	57.028	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.060%			
35) Dibromofluoromethane	8.171	113	89555	53.339	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.680%			
50) Toluene-d8	10.571	98	334811	52.732	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.460%			
62) 4-Bromofluorobenzene	12.853	95	109220	49.894	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 99.780%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	561	0.259	ug/l #	63
5) Bromomethane	2.965	94	647	0.487	ug/l	91
11) Tert butyl alcohol	5.536	59	1152	3.388	ug/l #	71
16) Acetone	4.442	43	59182	62.631	ug/l	98
18) Methyl Acetate	5.030	43	2239	0.969	ug/l #	78
20) Methylene Chloride	5.283	84	11740	7.067	ug/l	95
25) 2-Butanone	7.489	43	17122	12.748	ug/l	98
29) Tetrahydrofuran	7.847	42	1983	2.412	ug/l #	86
31) Cyclohexane	8.230	56	3628	1.210	ug/l #	13
36) 1,1-Dichloropropene	8.236	75	11753	4.683	ug/l #	49
37) Ethyl Acetate	7.559	43	4741	1.483	ug/l #	75
38) Carbon Tetrachloride	8.230	117	14285	5.050	ug/l #	18
41) Methacrylonitrile	7.853	41	1393	0.852	ug/l #	53
42) 1,2-Dichloroethane	8.694	62	954	0.323	ug/l #	78
43) Isopropyl Acetate	8.694	43	251739	42.132	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	1870	0.937	ug/l #	44
48) Methyl methacrylate	9.671	41	5240	2.127	ug/l #	52
49) 1,4-Dioxane	9.730	88	113	2.933	ug/l #	21
51) 4-Methyl-2-Pentanone	10.453	43	15996	5.220	ug/l #	79
53) t-1,3-Dichloropropene	10.730	75	709	0.240	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	46593	15.278	ug/l #	69
56) Ethyl methacrylate	10.982	69	2082	0.739	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6597	2.098	ug/l #	43
59) 2-Hexanone	11.206	43	109293	46.922	ug/l #	56
71) Bromoform	12.853	173	1065	0.635	ug/l #	1
74) N-amyl acetate	12.471	43	3413	0.830	ug/l #	47
76) 1,2,3-Trichloropropane	12.853	75	63649	25.649	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63649	61.363	ug/l #	6

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

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 20 03:00:11 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

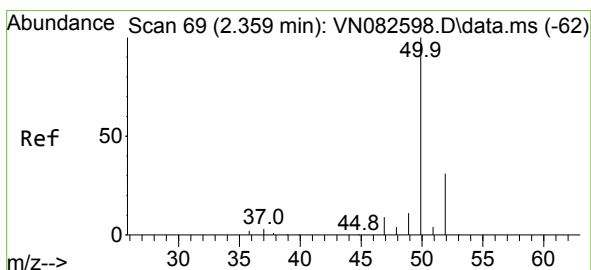
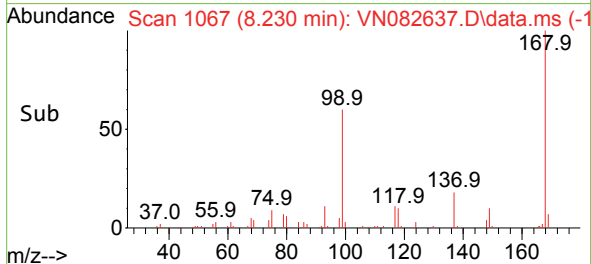
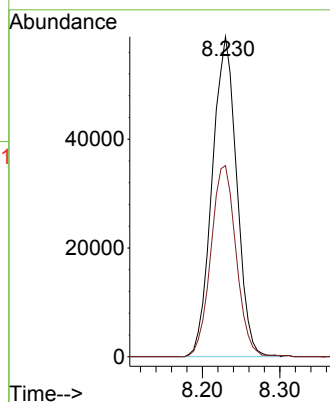
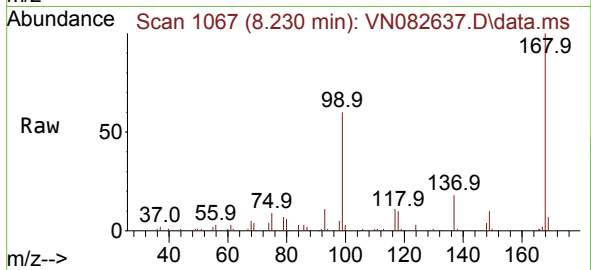




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

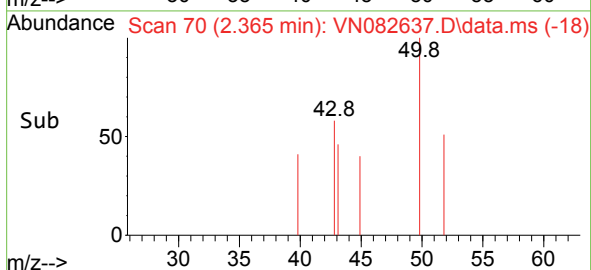
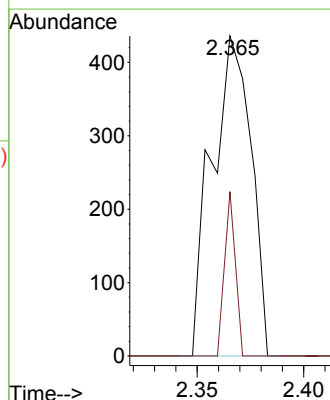
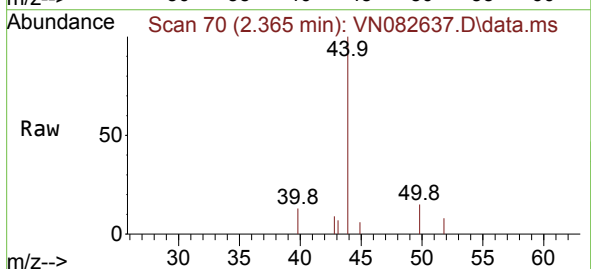
Instrument :
MSVOA_N
ClientSampleId :

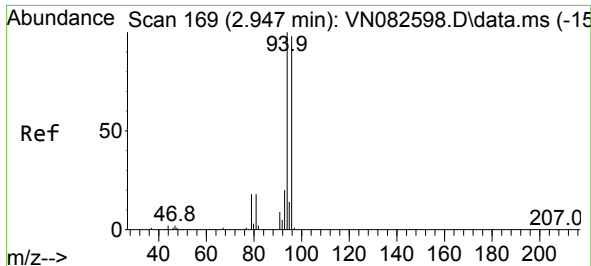
Tgt Ion:168 Resp: 129565
Ion Ratio Lower Upper
168 100
99 59.7 48.2 72.4



#3
Chloromethane
Concen: 0.259 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

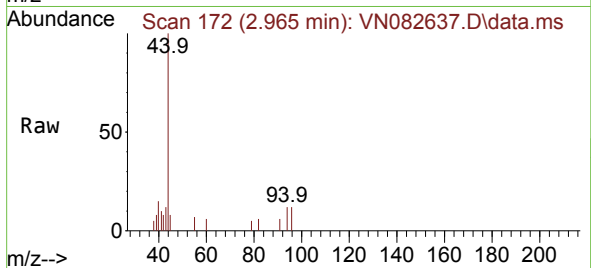
Tgt Ion: 50 Resp: 561
Ion Ratio Lower Upper
50 100
52 51.4 25.0 37.4#



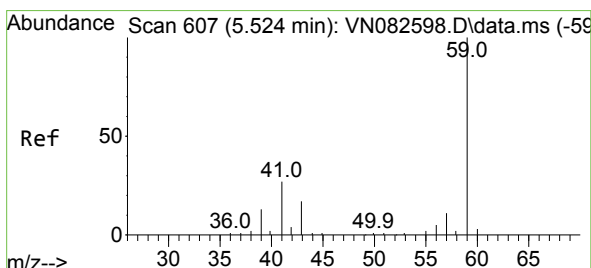
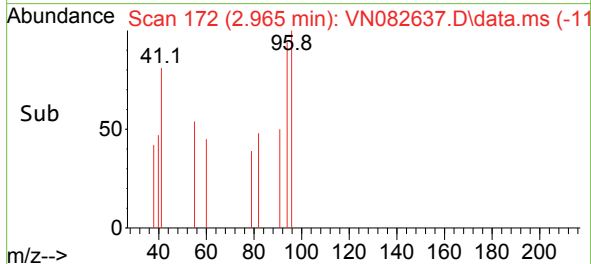
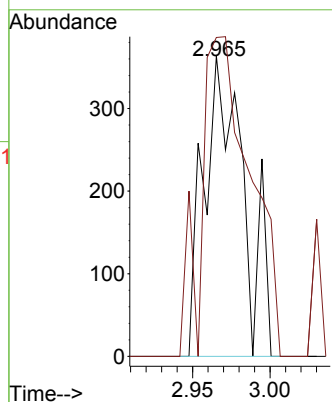


#5
Bromomethane
Concen: 0.487 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

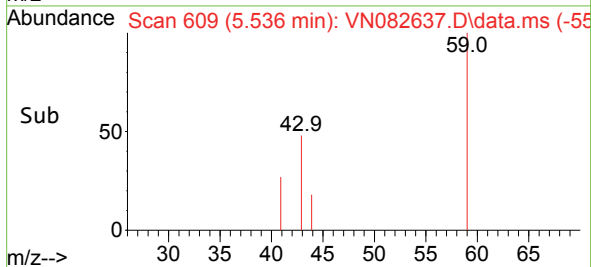
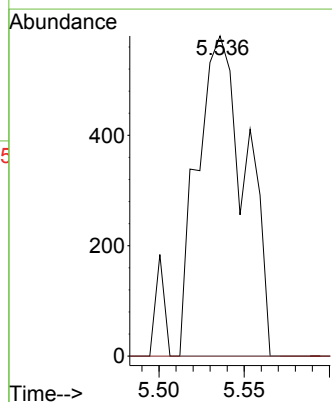
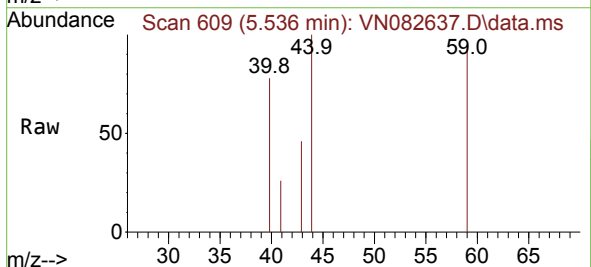


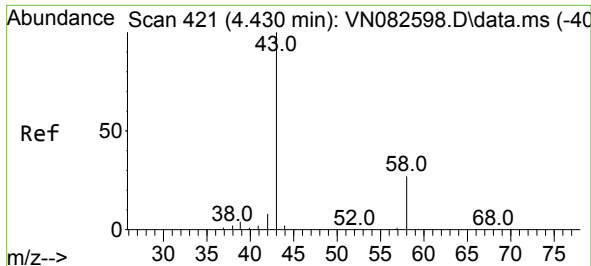
Tgt Ion: 94 Resp: 647
Ion Ratio Lower Upper
94 100
96 106.0 78.0 117.0



#11
Tert butyl alcohol
Concen: 3.388 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 59 Resp: 1152
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

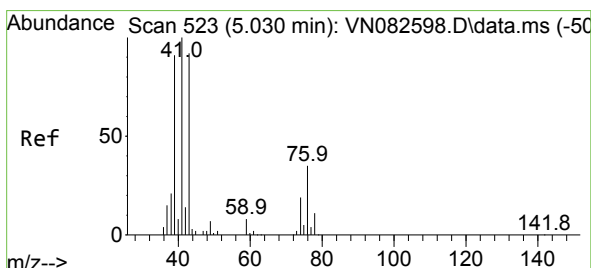
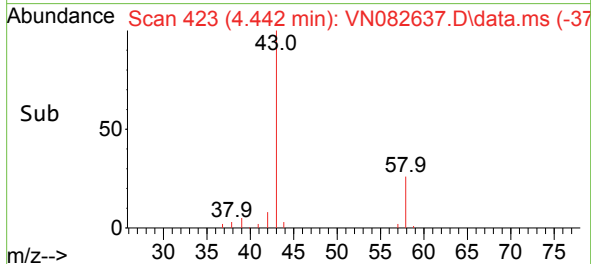
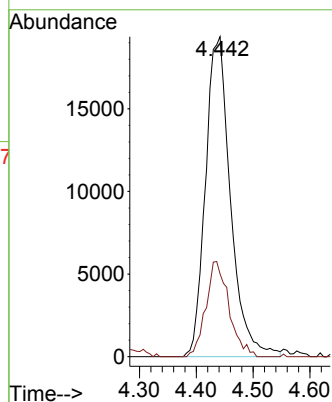
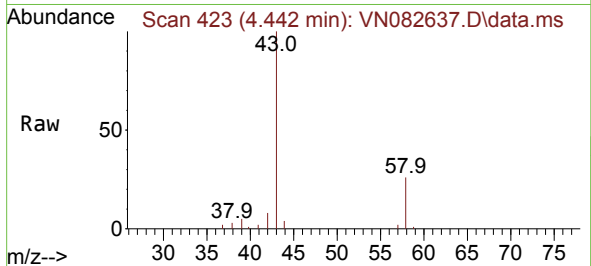




#16
Acetone
Concen: 62.631 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

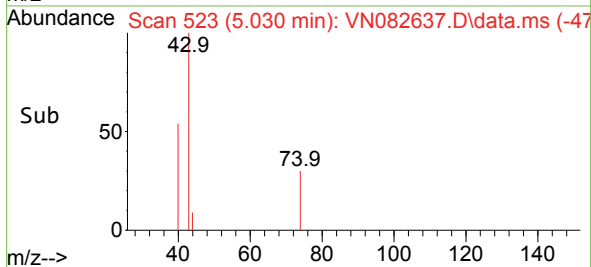
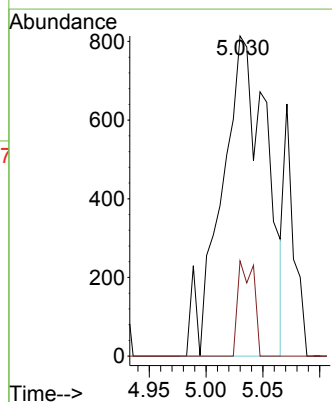
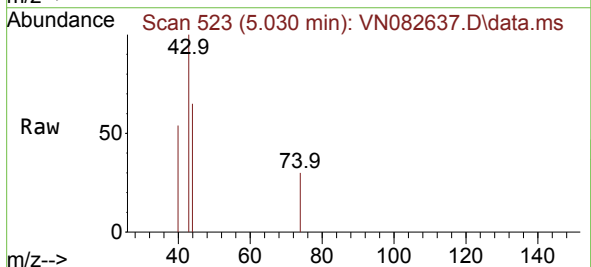
Instrument :
MSVOA_N
ClientSampleId :

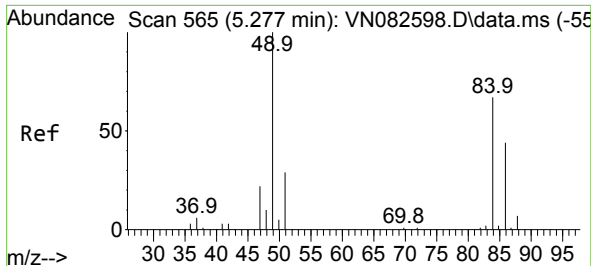
Tgt Ion: 43 Resp: 59182
Ion Ratio Lower Upper
43 100
58 25.9 21.8 32.6



#18
Methyl Acetate
Concen: 0.969 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.000 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

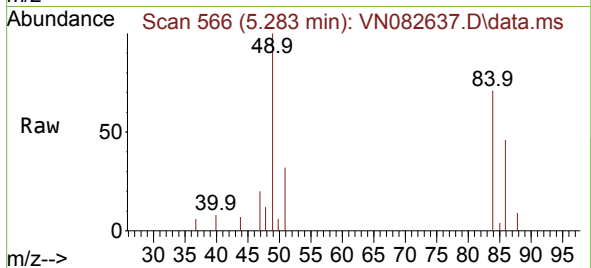
Tgt Ion: 43 Resp: 2239
Ion Ratio Lower Upper
43 100
74 10.4 16.3 24.5#



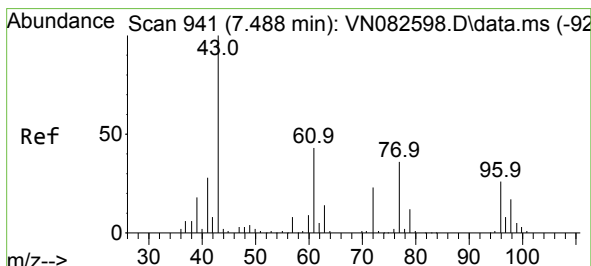
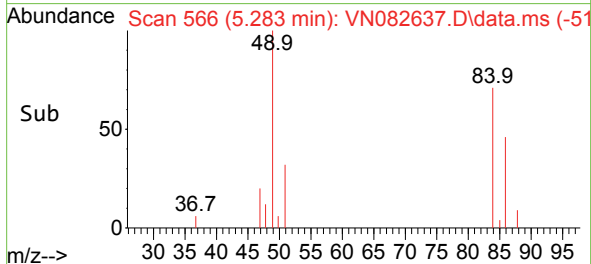
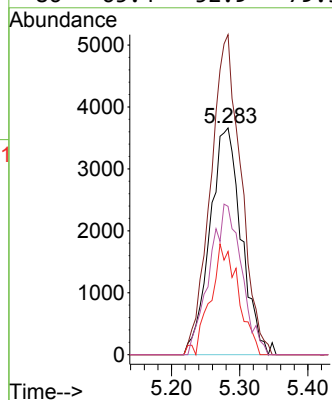


#20
Methylene Chloride
Concen: 7.067 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

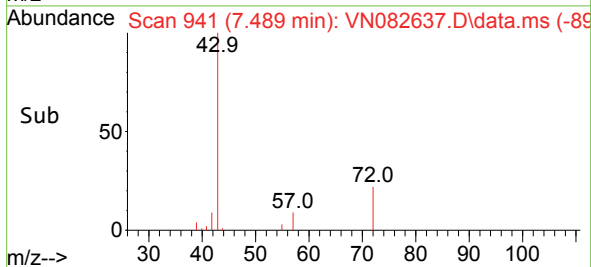
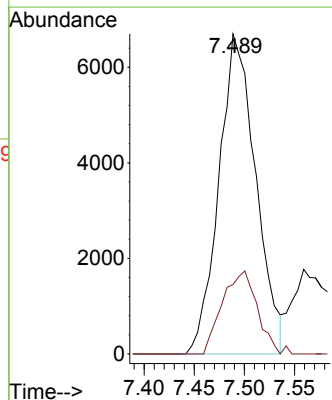
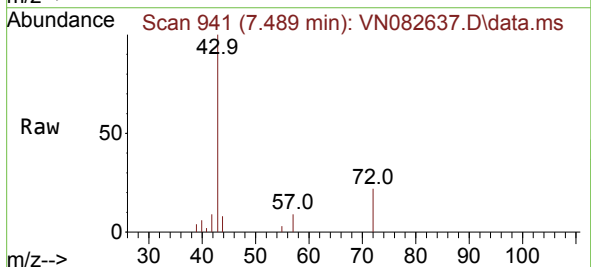


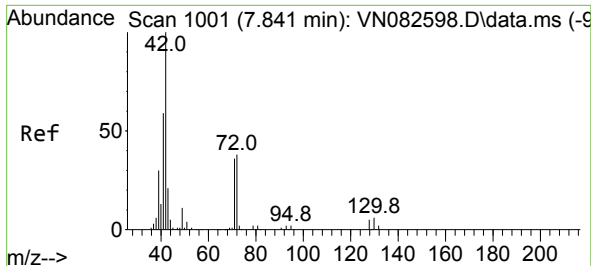
Tgt Ion:	84	Resp:	11740
Ion	Ratio	Lower	Upper
84	100		
49	141.1	119.6	179.4
51	45.5	34.8	52.2
86	65.4	52.9	79.3



#25
2-Butanone
Concen: 12.748 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion:	43	Resp:	17122
Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.2	27.2





#29

Tetrahydrofuran

Concen: 2.412 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.006 min

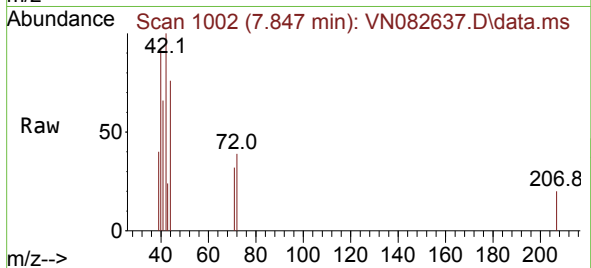
Lab File: VN082637.D

Acq: 19 Jun 2024 13:33

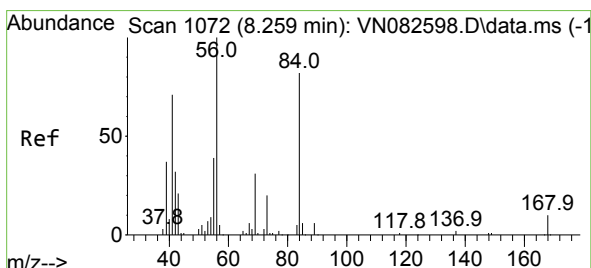
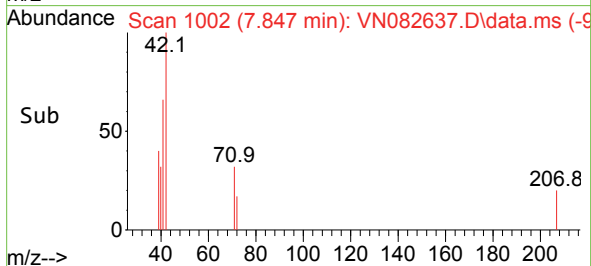
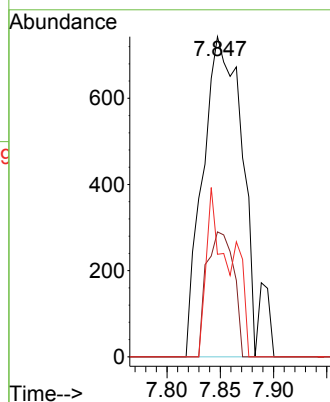
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1983
Ion	Ratio	Lower	Upper
42	100		
72	25.7	30.0	45.0#
71	30.9	28.3	42.5



#31

Cyclohexane

Concen: 1.210 ug/l

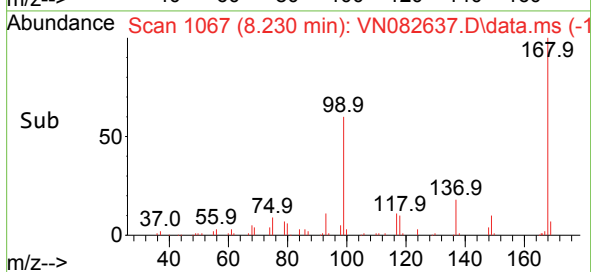
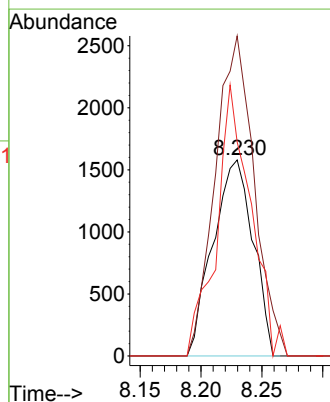
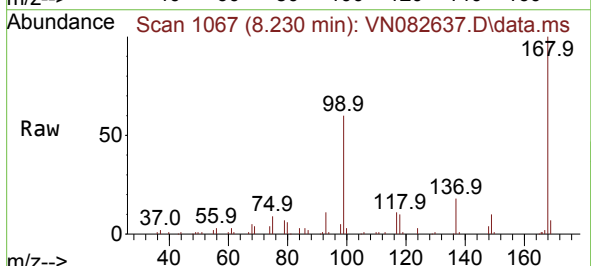
RT: 8.230 min Scan# 1067

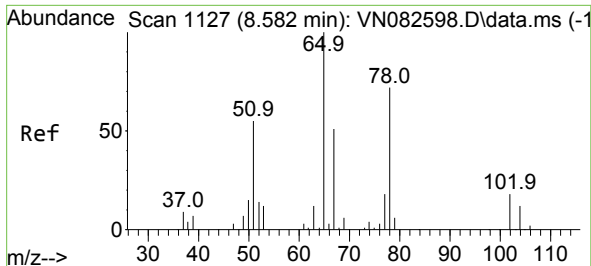
Delta R.T. -0.029 min

Lab File: VN082637.D

Acq: 19 Jun 2024 13:33

Tgt Ion:	56	Resp:	3628
Ion	Ratio	Lower	Upper
56	100		
69	163.2	24.5	36.7#
84	109.1	66.0	99.0#





#33

1,2-Dichloroethane-d4

Concen: 57.028 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN082637.D

Acq: 19 Jun 2024 13:33

Instrument :

MSVOA_N

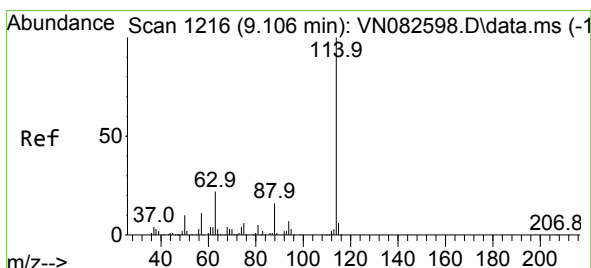
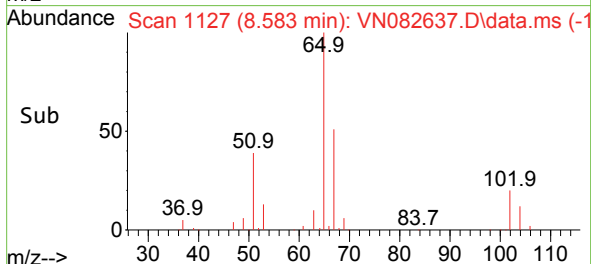
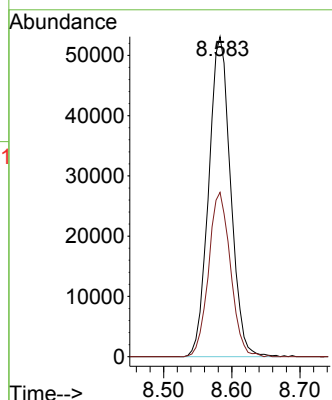
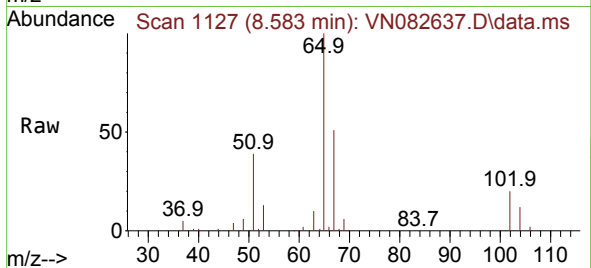
ClientSampleId :

Tgt Ion: 65 Resp: 118489

Ion Ratio Lower Upper

65 100

67 51.4 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: VN082637.D

Acq: 19 Jun 2024 13:33

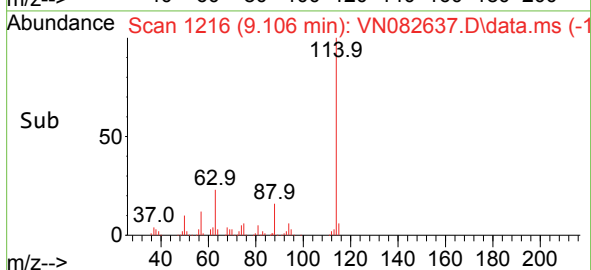
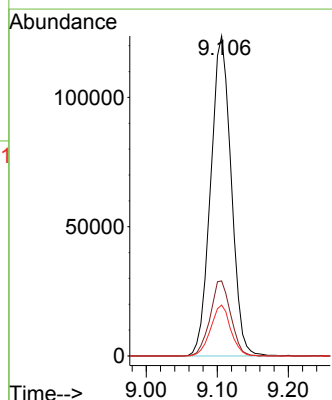
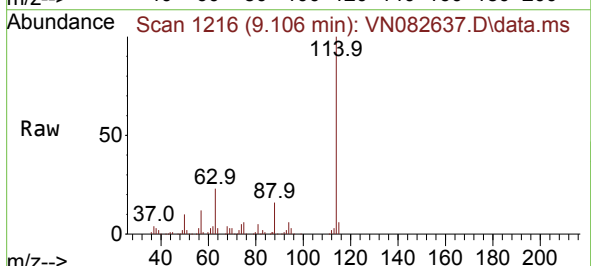
Tgt Ion: 114 Resp: 247496

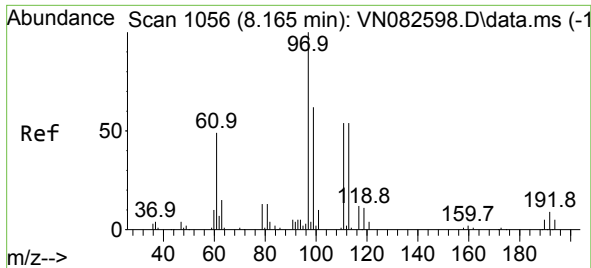
Ion Ratio Lower Upper

114 100

63 23.5 0.0 44.6

88 15.9 0.0 31.4

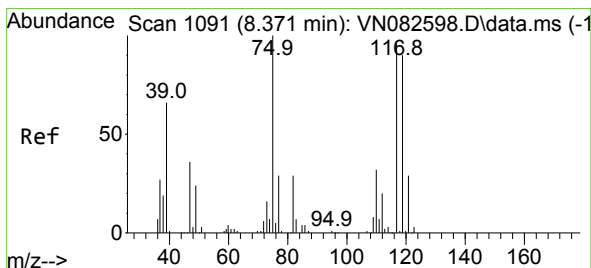
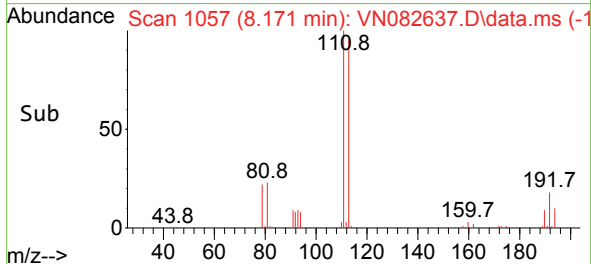
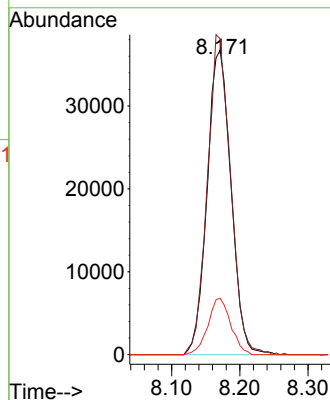
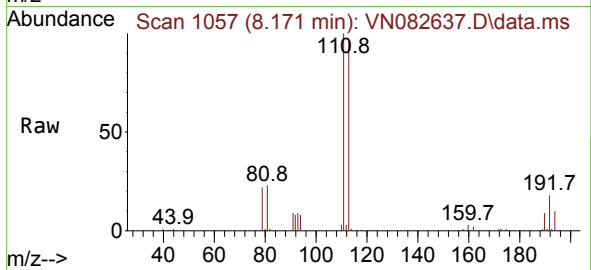




#35
 Dibromofluoromethane
 Concen: 53.339 ug/l
 RT: 8.171 min Scan# 1056
 Delta R.T. 0.006 min
 Lab File: VN082637.D
 Acq: 19 Jun 2024 13:33

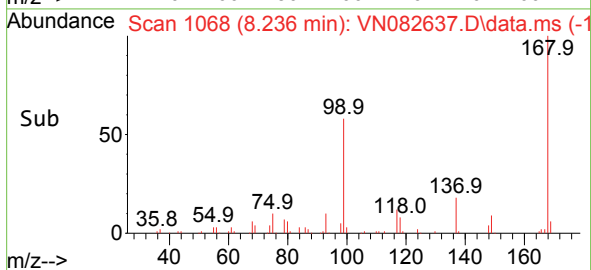
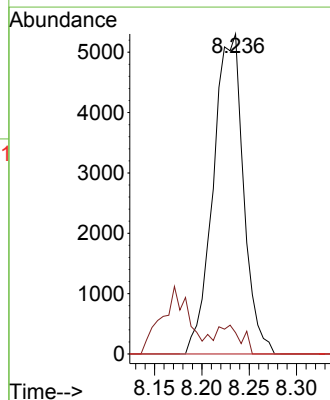
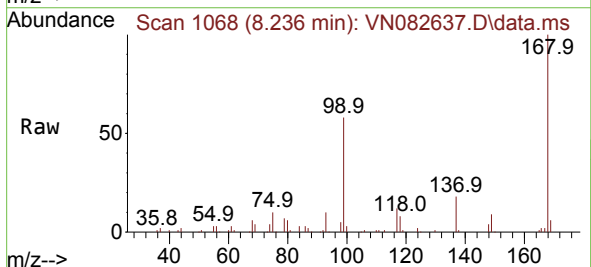
Instrument :
 MSVOA_N
 ClientSampleId :

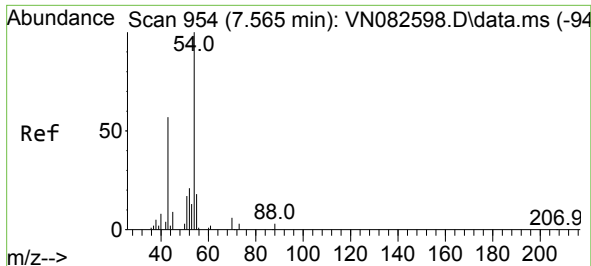
Tgt Ion:113 Resp: 89555
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.4 123.6
 192 17.7 14.9 22.3



#36
 1,1-Dichloropropene
 Concen: 4.683 ug/l
 RT: 8.236 min Scan# 1068
 Delta R.T. -0.135 min
 Lab File: VN082637.D
 Acq: 19 Jun 2024 13:33

Tgt Ion: 75 Resp: 11753
 Ion Ratio Lower Upper
 75 100
 110 6.7 16.3 48.9#
 77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 1.483 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.006 min

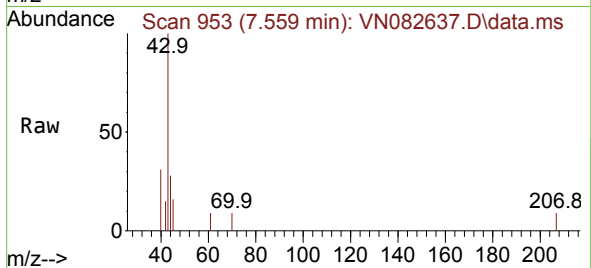
Lab File: VN082637.D

Acq: 19 Jun 2024 13:33

Instrument :

MSVOA_N

ClientSampleId :



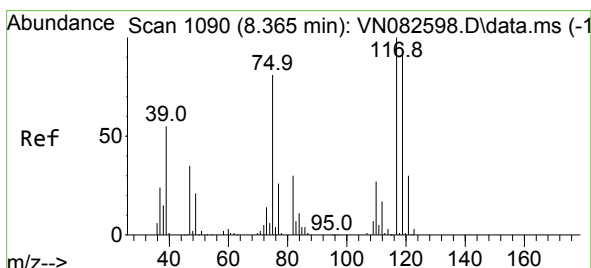
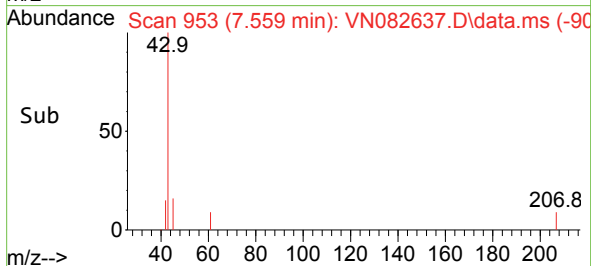
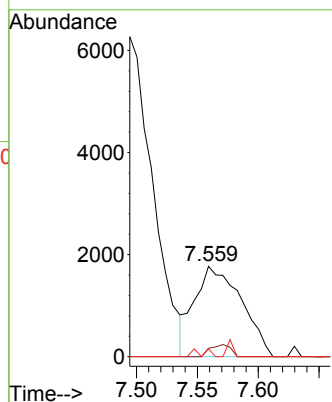
Tgt Ion: 43 Resp: 4741

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 2.3 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.050 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN082637.D

Acq: 19 Jun 2024 13:33

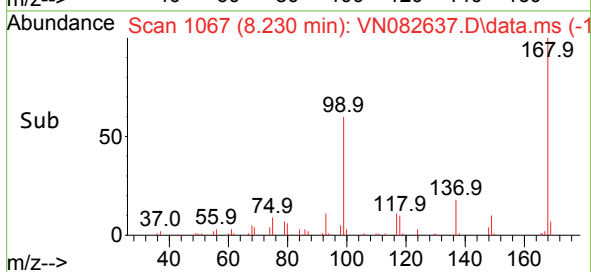
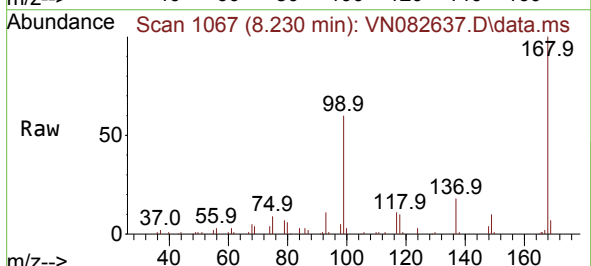
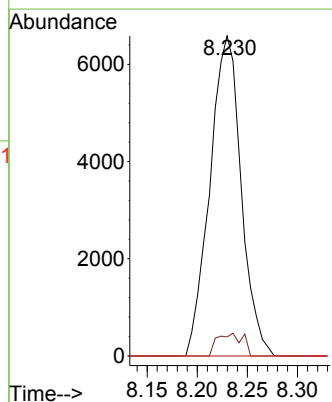
Tgt Ion: 117 Resp: 14285

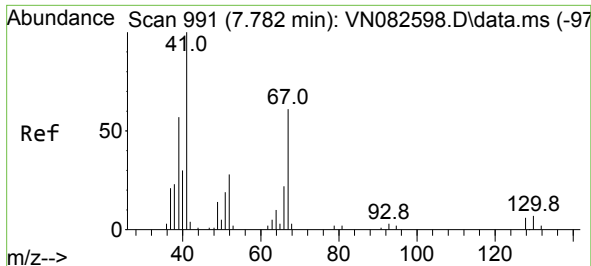
Ion Ratio Lower Upper

117 100

119 5.9 74.9 112.3#

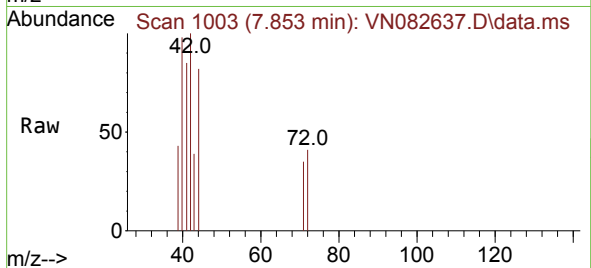
121 0.0 24.3 36.5#



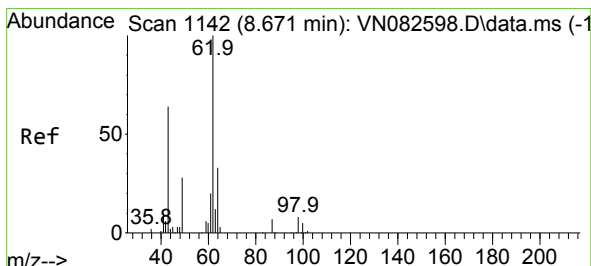
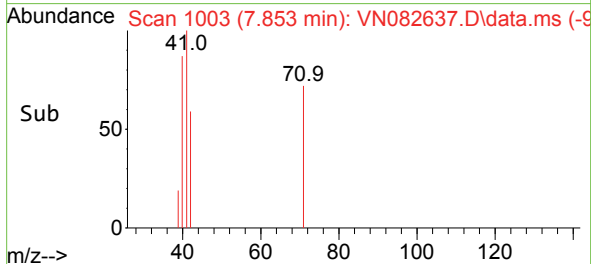
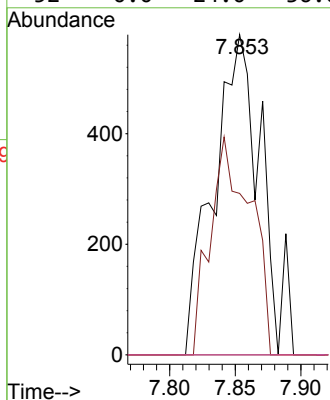


#41
Methacrylonitrile
Concen: 0.852 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.071 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

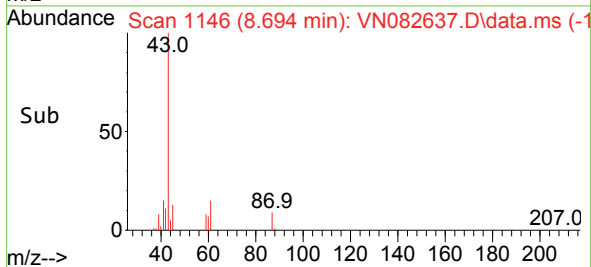
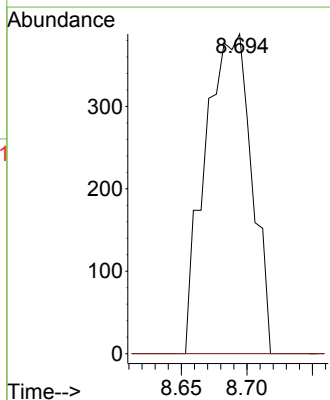
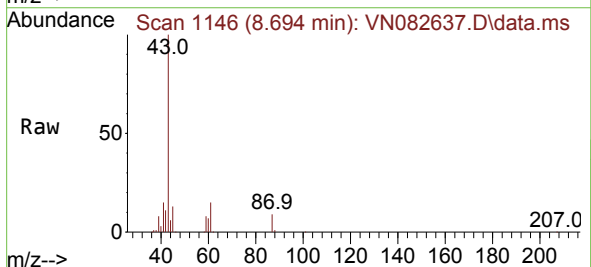


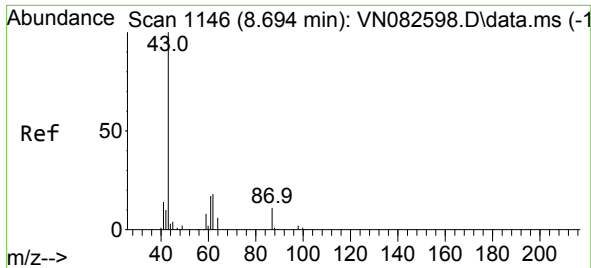
Tgt Ion: 41 Resp: 1393
Ion Ratio Lower Upper
41 100
39 60.7 45.5 68.3
67 0.0 50.5 75.7#
52 0.0 24.0 36.0#



#42
1,2-Dichloroethane
Concen: 0.323 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.024 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

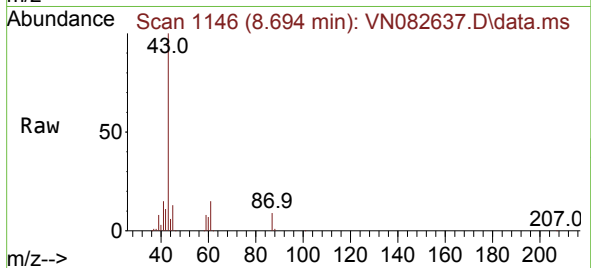
Tgt Ion: 62 Resp: 954
Ion Ratio Lower Upper
62 100
98 0.0 0.0 15.8



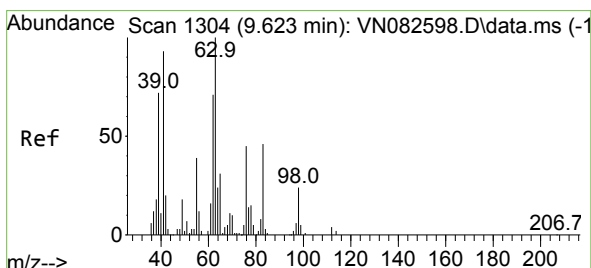
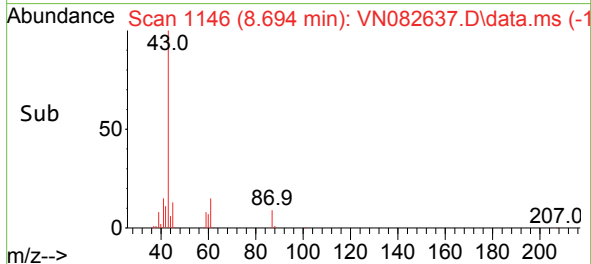
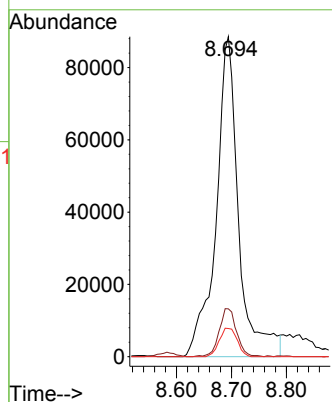


#43
Isopropyl Acetate
Concen: 42.132 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

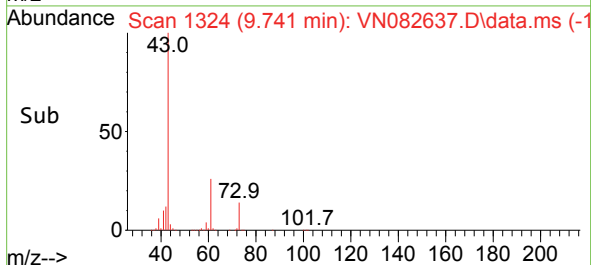
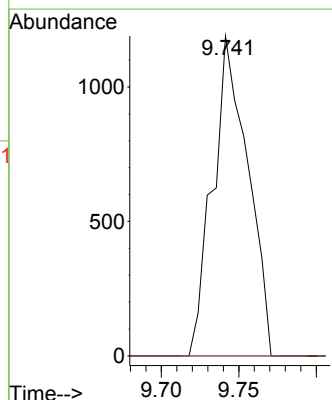
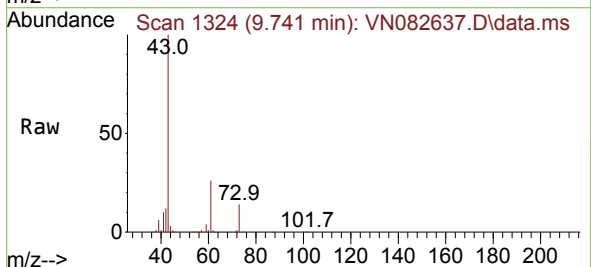


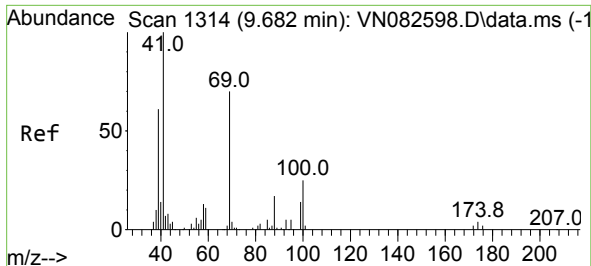
Tgt Ion: 43 Resp: 251739
Ion Ratio Lower Upper
43 100
61 11.6 17.8 26.6#
87 7.1 8.2 12.2#



#45
1,2-Dichloropropane
Concen: 0.937 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 63 Resp: 1870
Ion Ratio Lower Upper
63 100
65 0.0 24.4 36.6#

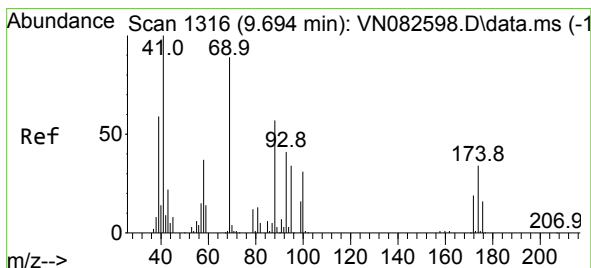
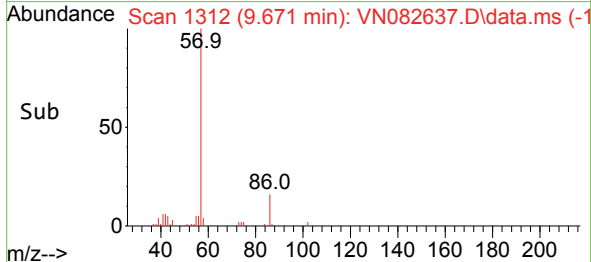
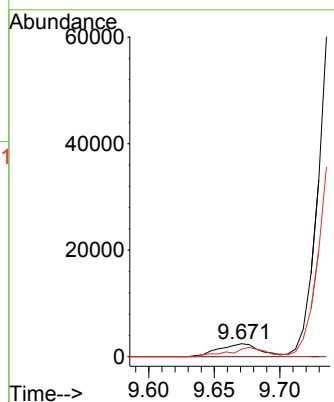
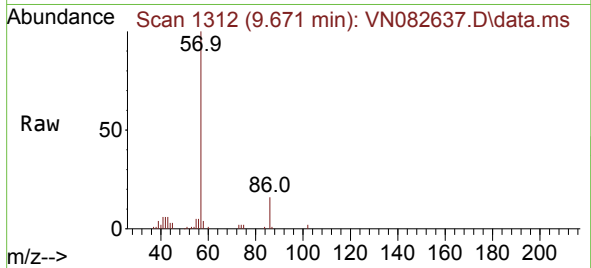




#48
Methyl methacrylate
Concen: 2.127 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

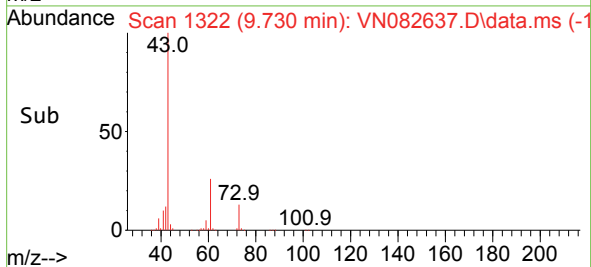
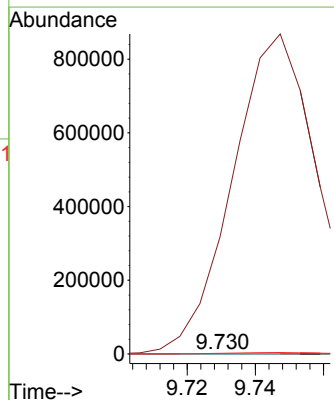
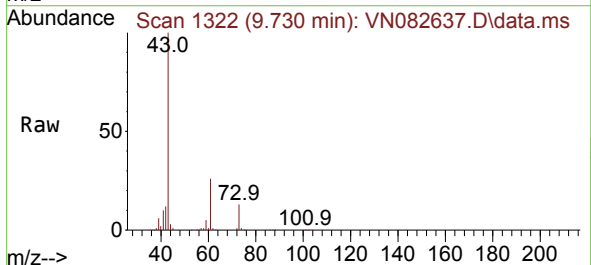
Instrument :
MSVOA_N
ClientSampleId :

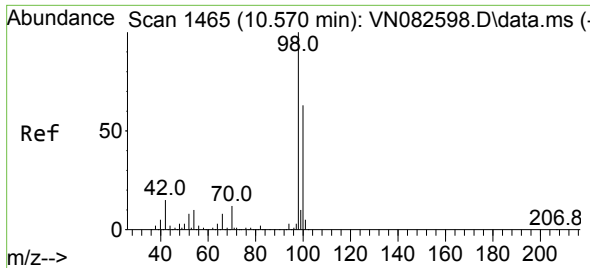
Tgt Ion: 41 Resp: 5240
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 67.0 50.3 75.5



#49
1,4-Dioxane
Concen: 2.933 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.036 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.8#
58 0.0 59.4 89.0#

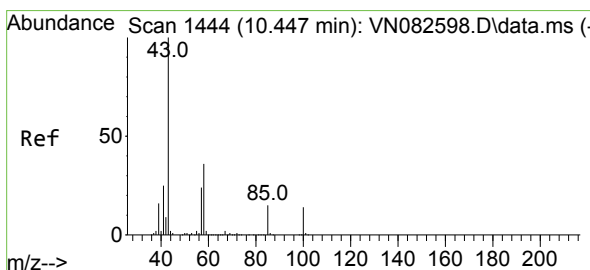
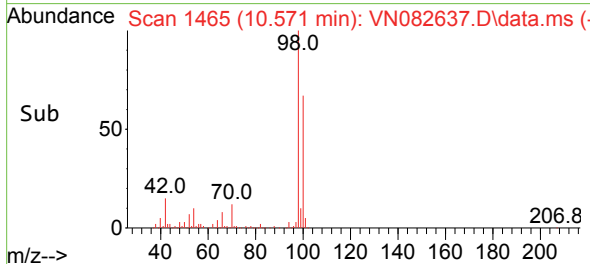
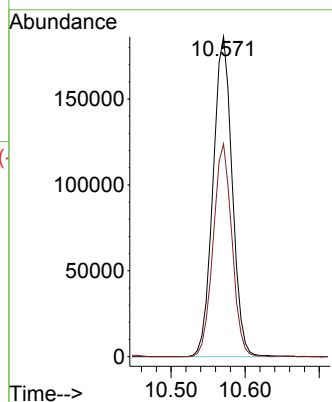
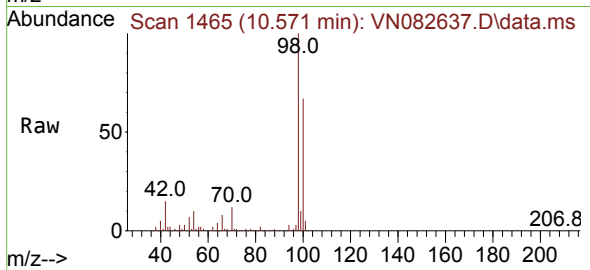




#50
Toluene-d8
Concen: 52.732 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

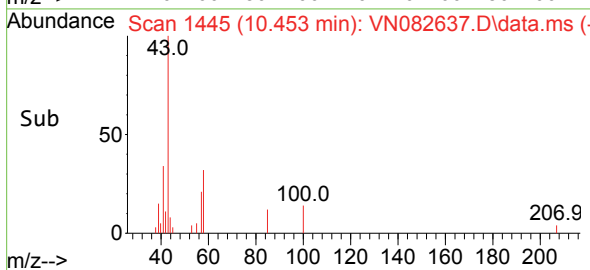
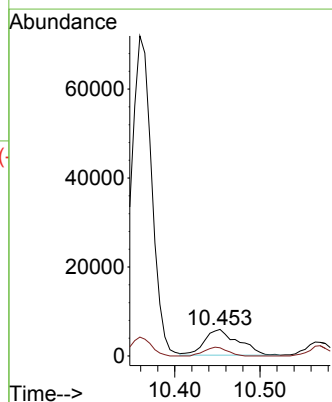
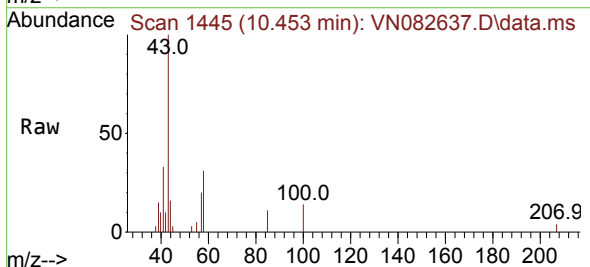
Instrument :
MSVOA_N
ClientSampleId :

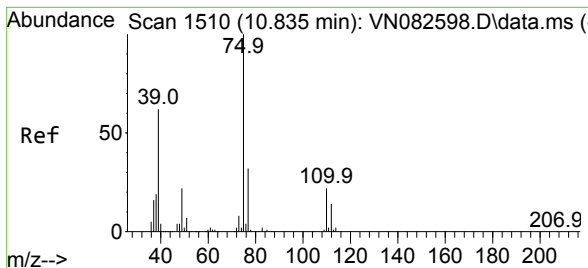
Tgt Ion: 98 Resp: 334811
Ion Ratio Lower Upper
98 100
100 64.9 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 5.220 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

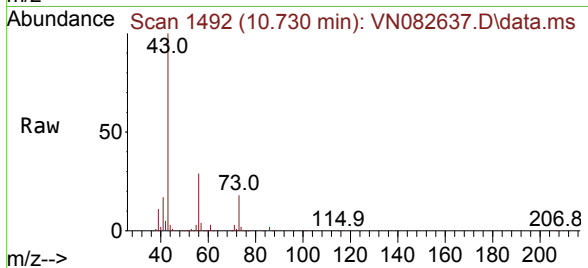
Tgt Ion: 43 Resp: 15996
Ion Ratio Lower Upper
43 100
58 23.0 28.2 42.4#



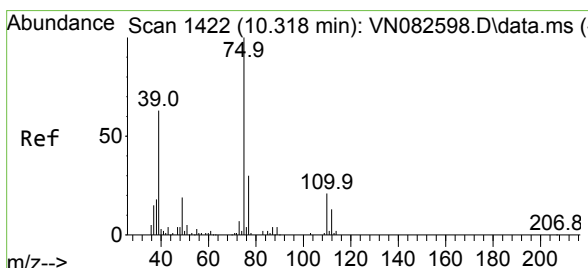
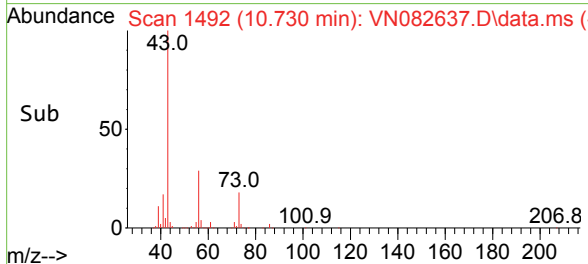
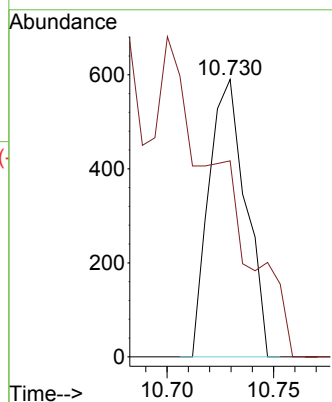


#53
t-1,3-Dichloropropene
Concen: 0.240 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

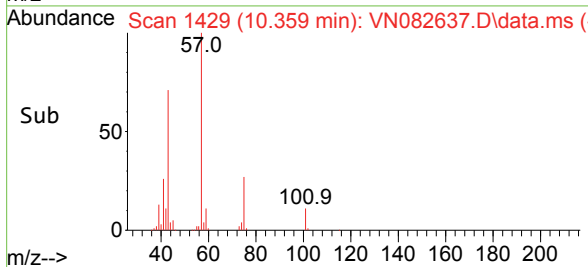
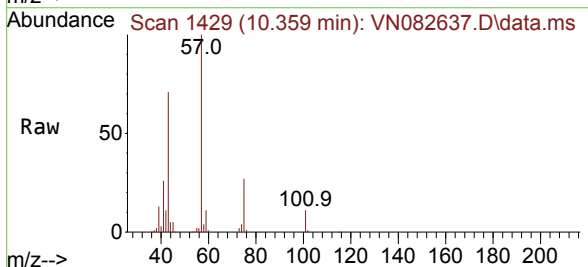
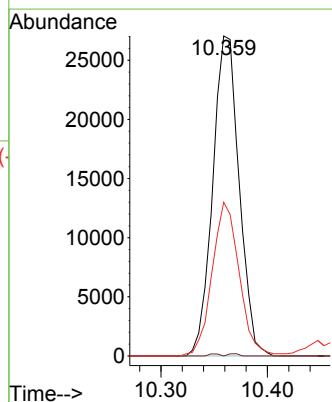


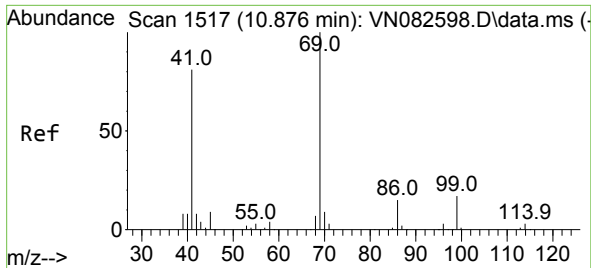
Tgt Ion: 75 Resp: 709
Ion Ratio Lower Upper
75 100
77 44.4 25.7 38.5#



#54
cis-1,3-Dichloropropene
Concen: 15.278 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 75 Resp: 46593
Ion Ratio Lower Upper
75 100
77 0.0 24.3 36.5#
39 48.0 50.5 75.7#

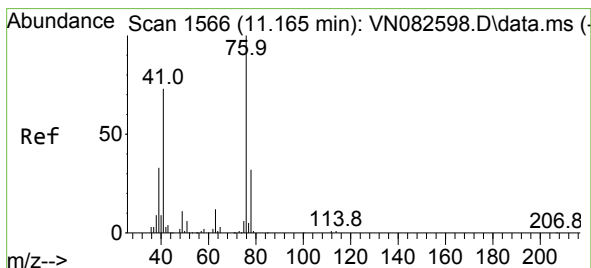
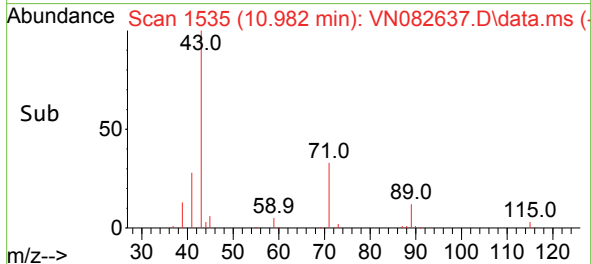
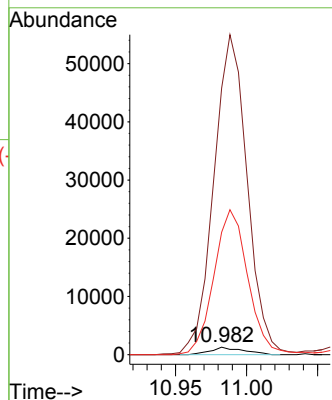
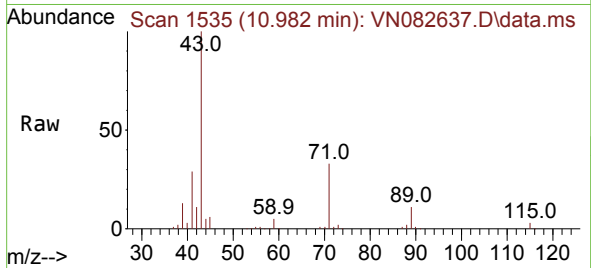




#56
Ethyl methacrylate
Concen: 0.739 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

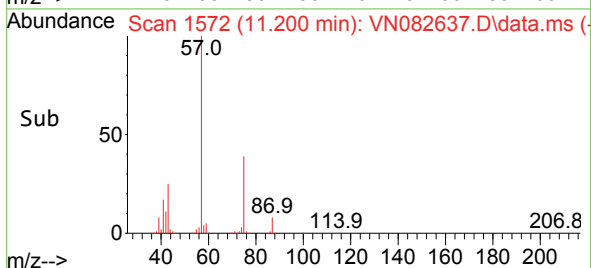
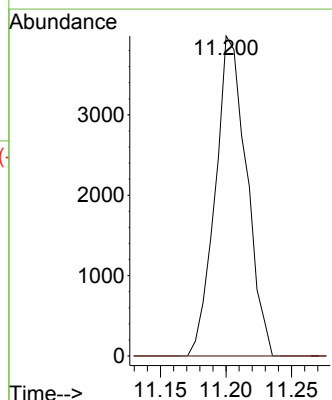
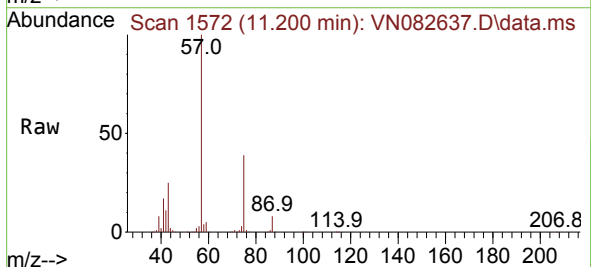
Instrument :
MSVOA_N
ClientSampleId :

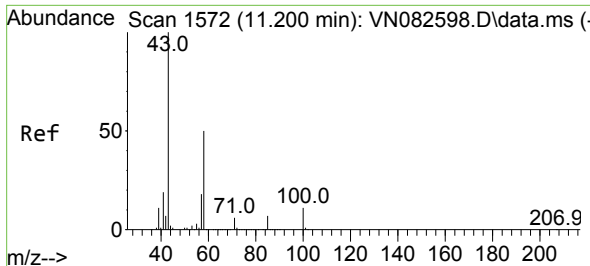
Tgt Ion: 69 Resp: 2082
Ion Ratio Lower Upper
69 100
41 4323.0 63.4 95.2#
39 2002.4 37.4 56.0#



#57
1,3-Dichloropropane
Concen: 2.098 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.036 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 76 Resp: 6597
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

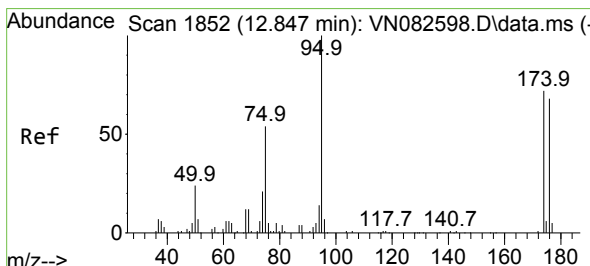
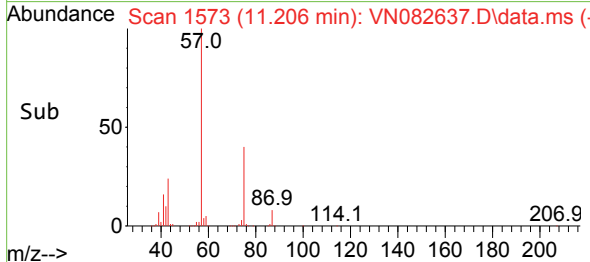
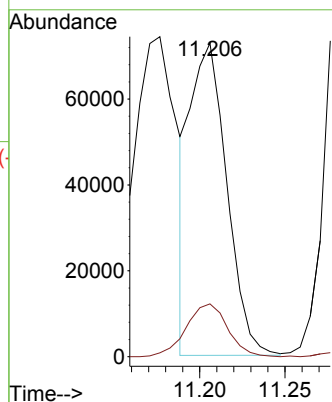
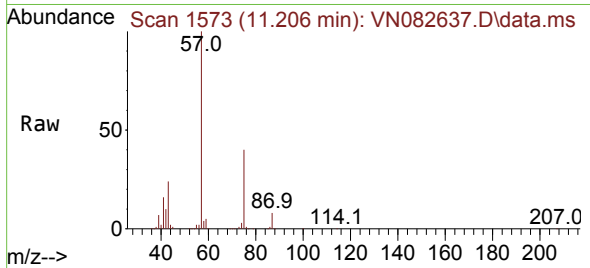




#59
2-Hexanone
Concen: 46.922 ug/l
RT: 11.206 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

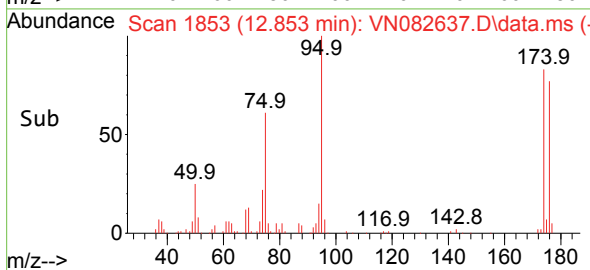
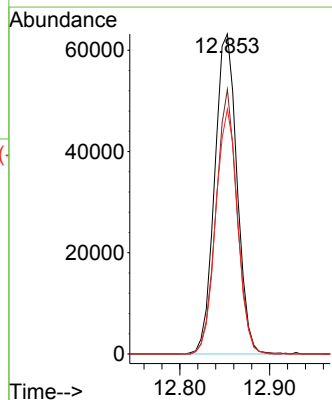
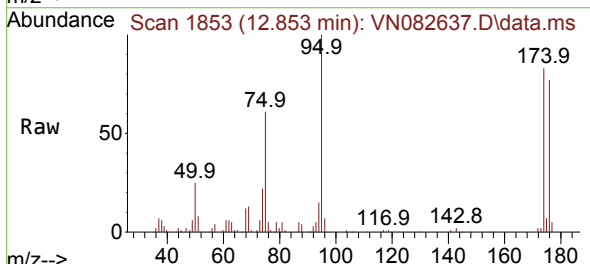
Instrument :
MSVOA_N
ClientSampleId :

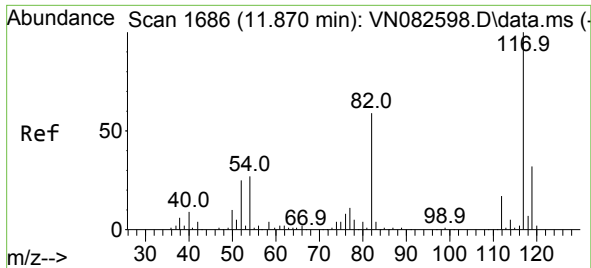
Tgt Ion: 43 Resp: 109293
Ion Ratio Lower Upper
43 100
58 19.1 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.894 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

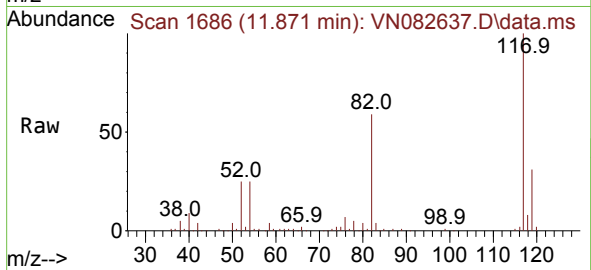
Tgt Ion: 95 Resp: 109220
Ion Ratio Lower Upper
95 100
174 78.0 0.0 159.2
176 75.3 0.0 147.6



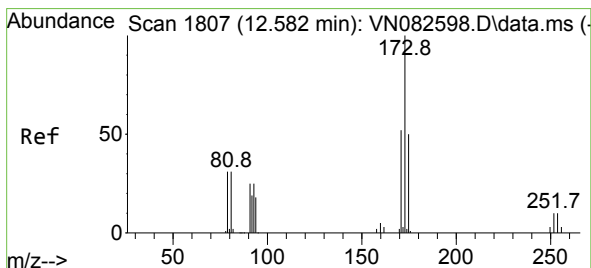
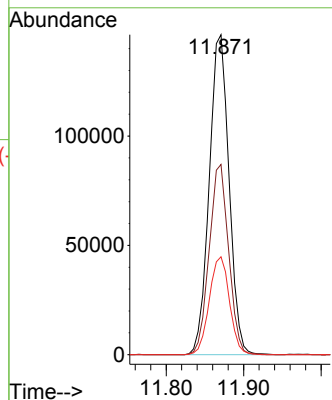
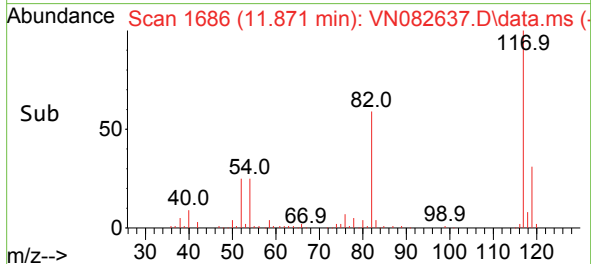


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

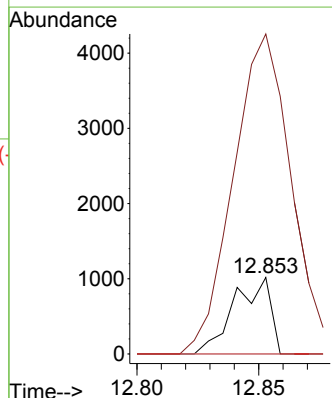
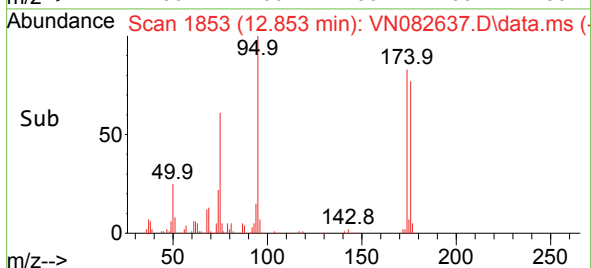
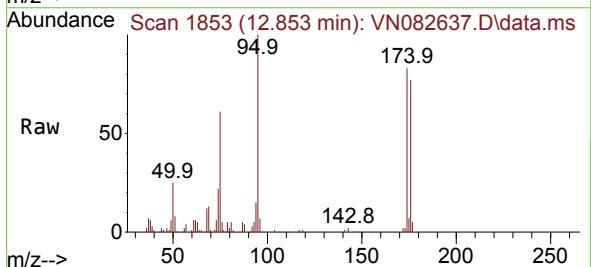


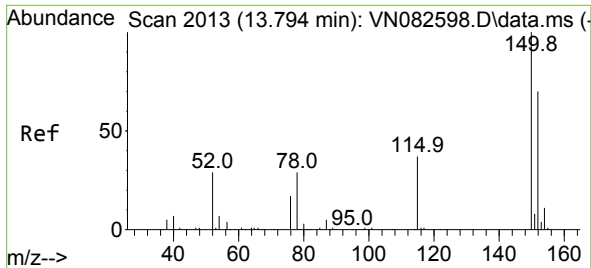
Tgt Ion:117 Resp: 259494
Ion Ratio Lower Upper
117 100
82 59.5 47.5 71.3
119 30.6 25.6 38.4



#71
Bromoform
Concen: 0.635 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion:173 Resp: 1065
Ion Ratio Lower Upper
173 100
175 545.8 24.0 72.0#
254 0.0 0.0 0.0

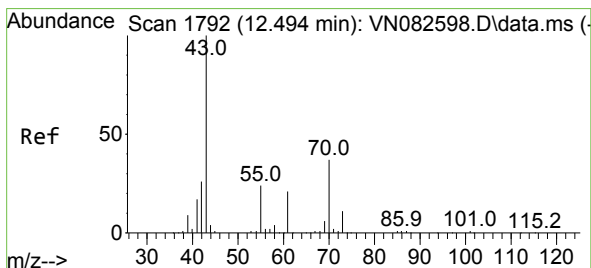
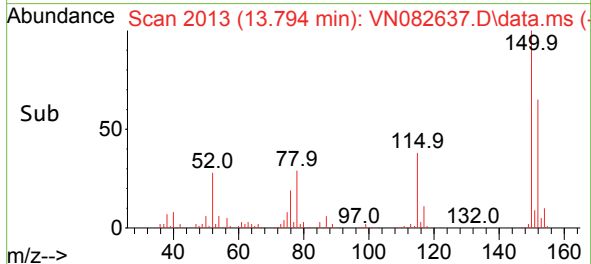
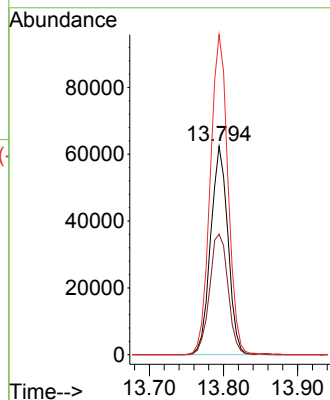
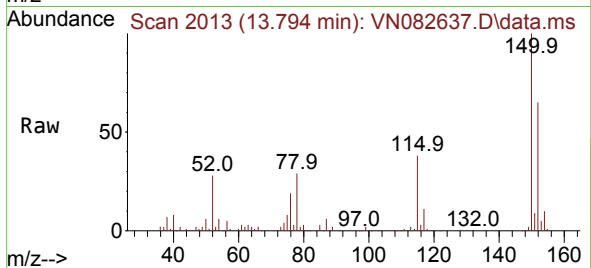




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN082637.D
 Acq: 19 Jun 2024 13:33

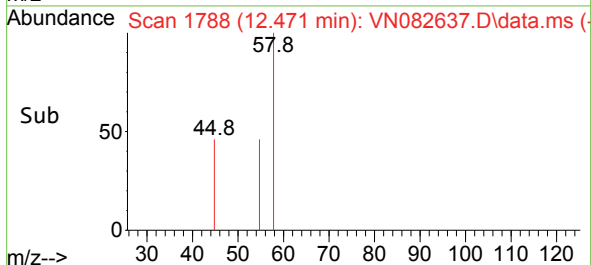
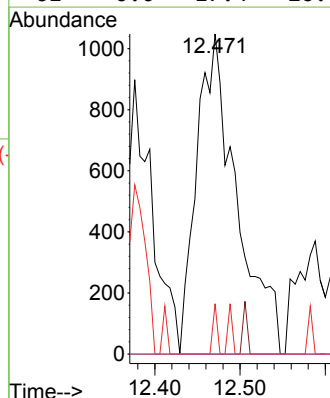
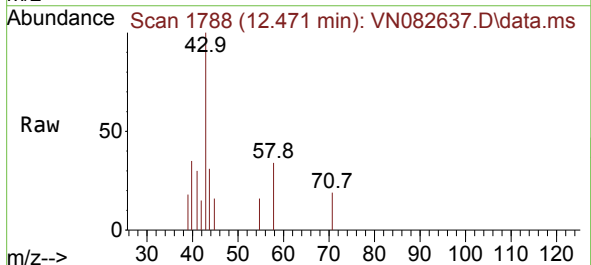
Instrument :
 MSVOA_N
 ClientSampleId :

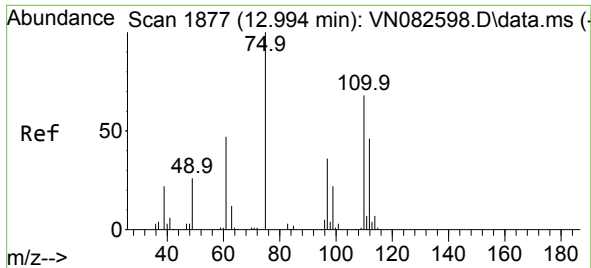
Tgt Ion:152 Resp: 101460
 Ion Ratio Lower Upper
 152 100
 115 61.6 30.6 91.6
 150 156.9 0.0 348.6



#74
 N-ethyl acetate
 Concen: 0.830 ug/l
 RT: 12.471 min Scan# 1788
 Delta R.T. -0.023 min
 Lab File: VN082637.D
 Acq: 19 Jun 2024 13:33

Tgt Ion: 43 Resp: 3413
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.8 44.6#
 55 1.7 18.7 28.1#
 61 0.0 17.4 26.0#

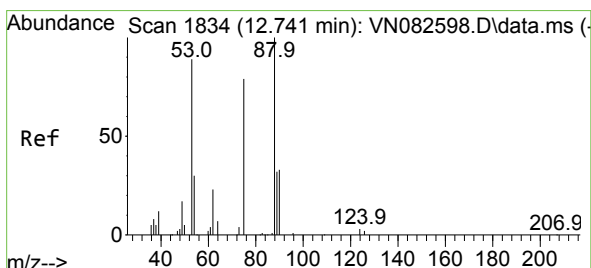
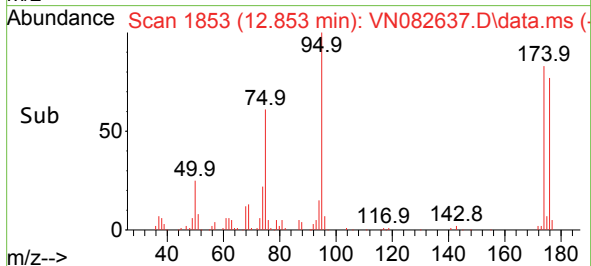
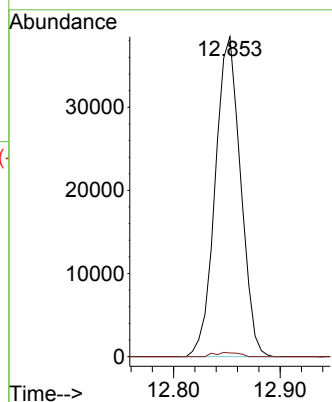
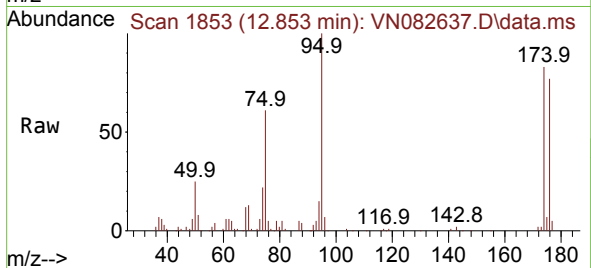




#76
1,2,3-Trichloropropane
Concen: 25.649 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 63649
Ion Ratio Lower Upper
75 100
77 1.3 110.9 332.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.363 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN082637.D
Acq: 19 Jun 2024 13:33

Tgt Ion: 75 Resp: 63649
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 36.3 54.5#

