

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101923\
 Data File : VN079614.D
 Acq On : 19 Oct 2023 13:14
 Operator : JC\MD
 Sample : 04919-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 20 01:28:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

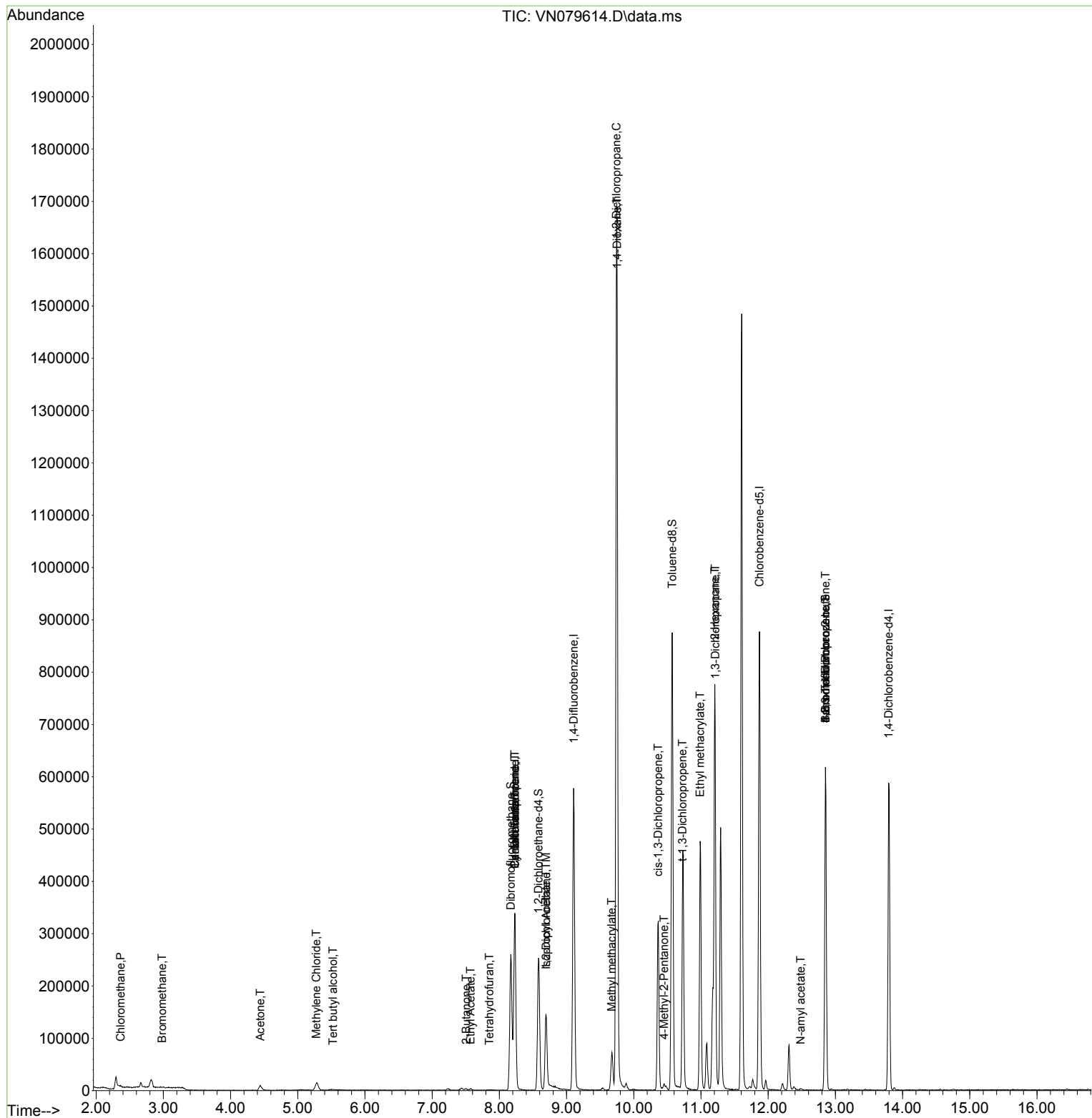
Internal Standards						
1) Pentafluorobenzene	8.229	168	230628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	473234	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	493041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	155524	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	205167	54.866	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.740%	
35) Dibromofluoromethane	8.171	113	180531	53.084	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.160%	
50) Toluene-d8	10.570	98	590419	47.981	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.960%	
62) 4-Bromofluorobenzene	12.853	95	202711	51.332	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.660%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1114	0.270	ug/l	93
5) Bromomethane	2.983	94	708	0.276	ug/l	93
11) Tert butyl alcohol	5.524	59	683	1.214	ug/l #	72
16) Acetone	4.441	43	16383	11.046	ug/l #	85
20) Methylene Chloride	5.277	84	10475	2.655	ug/l #	84
25) 2-Butanone	7.506	43	4984	2.264	ug/l #	68
29) Tetrahydrofuran	7.853	42	748	0.525	ug/l #	20
31) Cyclohexane	8.229	56	6592	1.243	ug/l #	30
36) 1,1-Dichloropropene	8.229	75	21077	4.129	ug/l #	48
37) Ethyl Acetate	7.571	43	5003	0.985	ug/l #	69
38) Carbon Tetrachloride	8.229	117	25839	5.057	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1180	0.214	ug/l #	73
43) Isopropyl Acetate	8.694	43	165029	18.547	ug/l #	80
45) 1,2-Dichloropropane	9.741	63	2268	0.568	ug/l #	45
48) Methyl methacrylate	9.671	41	4833	1.268	ug/l #	31
49) 1,4-Dioxane	9.753	88	130	1.851	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	6770	1.348	ug/l	96
53) t-1,3-Dichloropropene	10.723	75	1344	0.251	ug/l #	55
54) cis-1,3-Dichloropropene	10.365	75	55436	9.444	ug/l #	73
56) Ethyl methacrylate	10.988	69	2564	0.521	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	8076	1.306	ug/l #	42
59) 2-Hexanone	11.206	43	99974	27.583	ug/l #	49
71) Bromoform	12.853	173	1989	0.676	ug/l #	1
74) N-amyl acetate	12.482	43	1853	0.312	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.853	83	408	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	114943	25.633	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114943	74.375	ug/l #	15

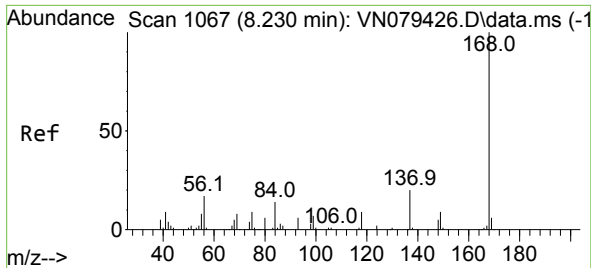
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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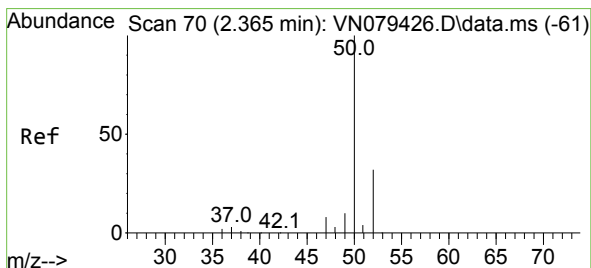
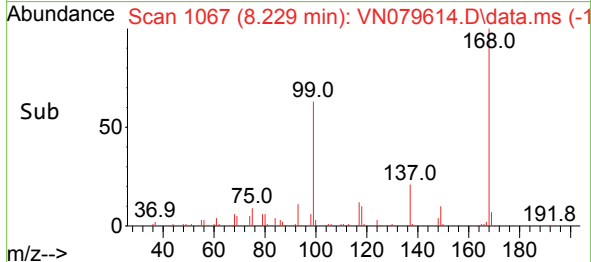
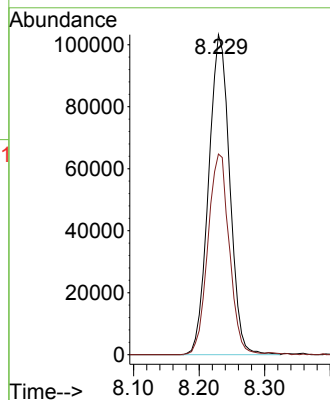
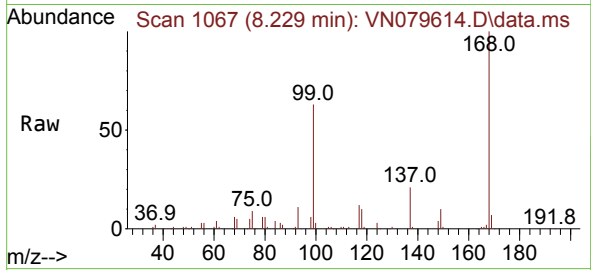




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

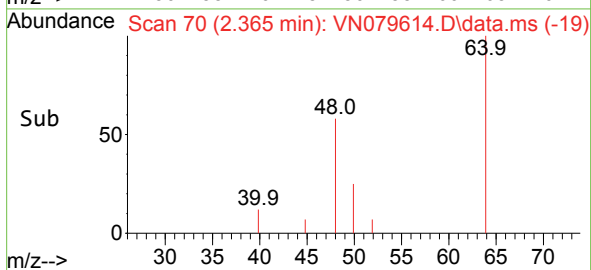
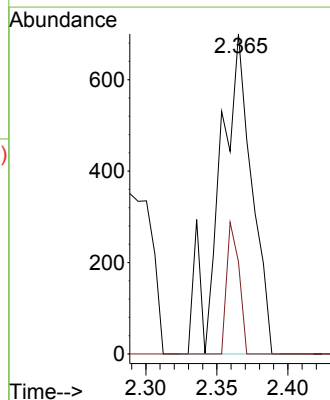
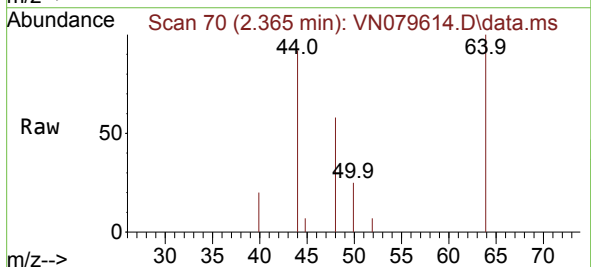
Instrument :
MSVOA_N
ClientSampleId :

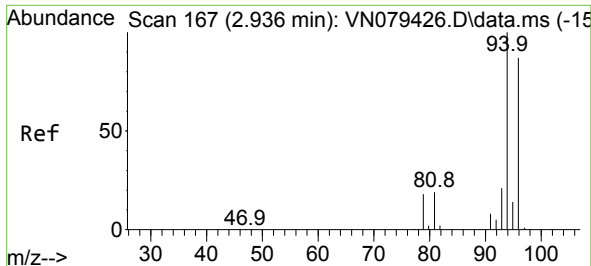
Tgt Ion:168 Resp: 230628
Ion Ratio Lower Upper
168 100
99 62.7 53.0 79.6



#3
Chloromethane
Concen: 0.270 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 50 Resp: 1114
Ion Ratio Lower Upper
50 100
52 28.9 26.5 39.7





#5

Bromomethane

Concen: 0.276 ug/l

RT: 2.983 min Scan# 11

Delta R.T. 0.047 min

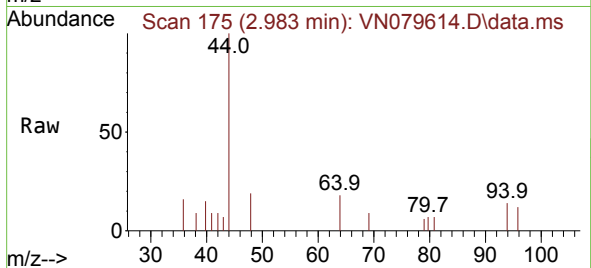
Lab File: VN079614.D

Acq: 19 Oct 2023 13:14

Instrument :

MSVOA_N

ClientSampleId :

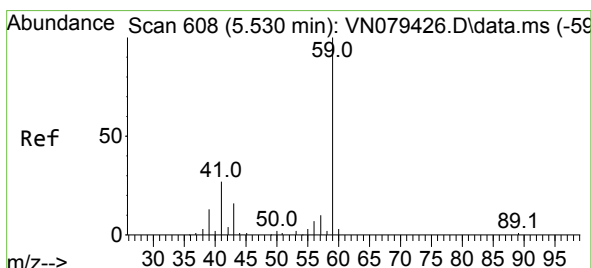
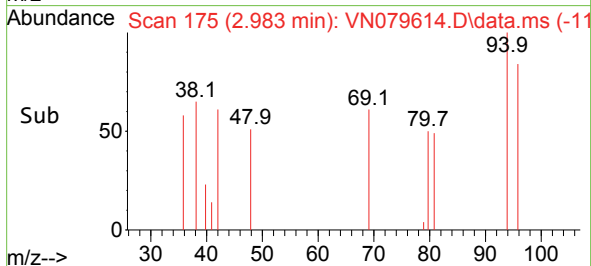
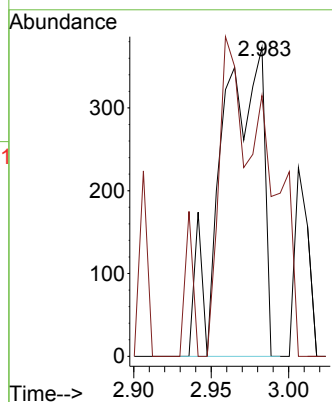


Tgt Ion: 94 Resp: 708

Ion Ratio Lower Upper

94 100

96 84.5 73.1 109.7



#11

Tert butyl alcohol

Concen: 1.214 ug/l

RT: 5.524 min Scan# 607

Delta R.T. -0.006 min

Lab File: VN079614.D

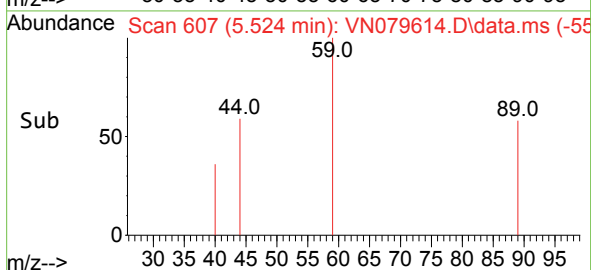
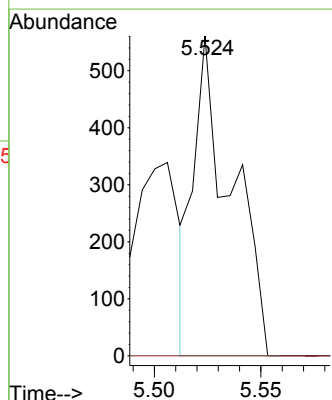
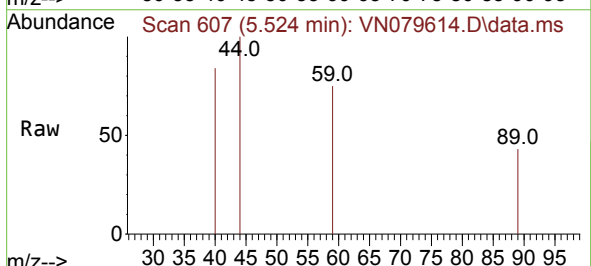
Acq: 19 Oct 2023 13:14

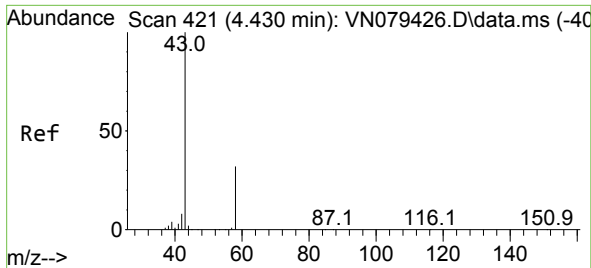
Tgt Ion: 59 Resp: 683

Ion Ratio Lower Upper

59 100

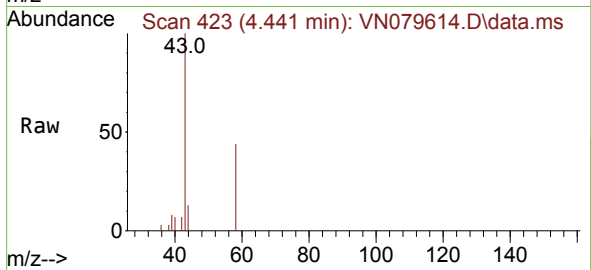
57 0.0 8.2 12.4#



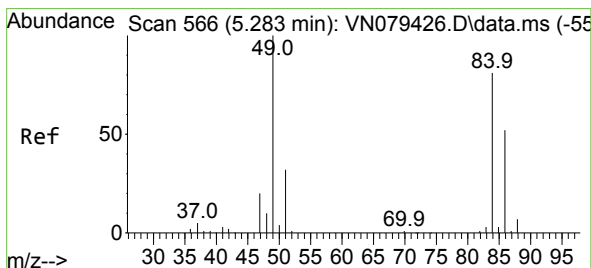
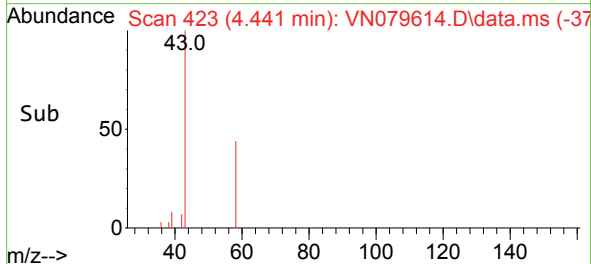
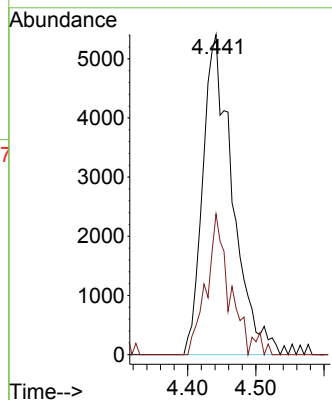


#16
Acetone
Concen: 11.046 ug/l
RT: 4.441 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Instrument :
MSVOA_N
ClientSampleId :

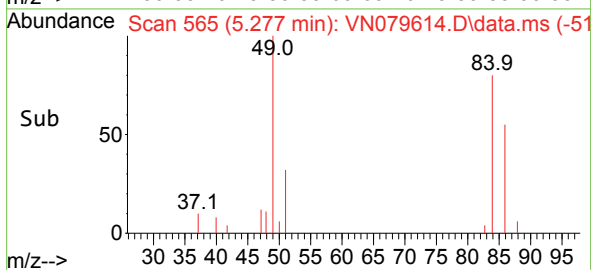
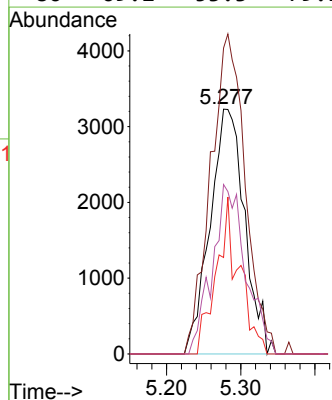
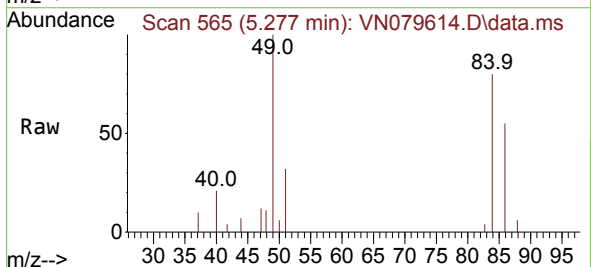


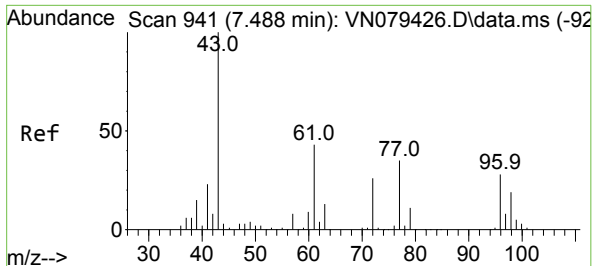
Tgt Ion: 43 Resp: 16383
Ion Ratio Lower Upper
43 100
58 43.9 28.0 42.0#



#20
Methylene Chloride
Concen: 2.655 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 84 Resp: 10475
Ion Ratio Lower Upper
84 100
49 125.0 79.7 119.5#
51 39.4 25.2 37.8#
86 69.2 53.3 79.9

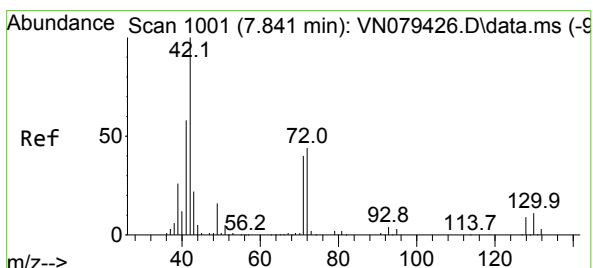
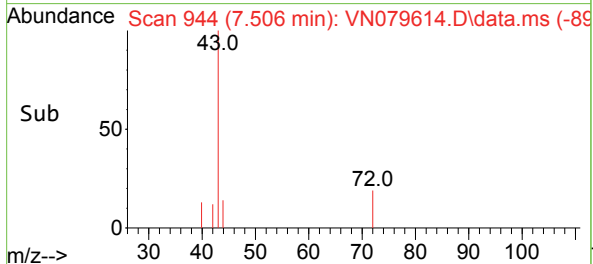
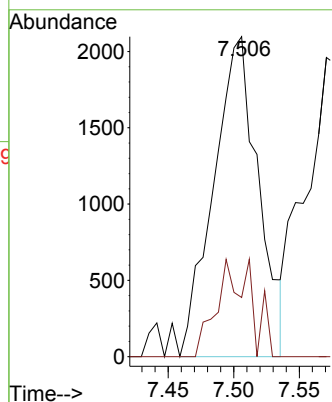
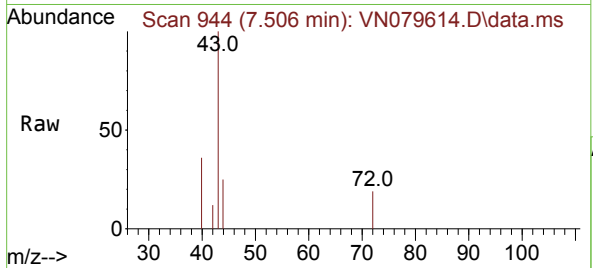




#25
2-Butanone
Concen: 2.264 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

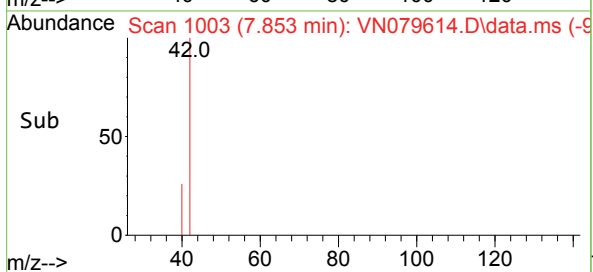
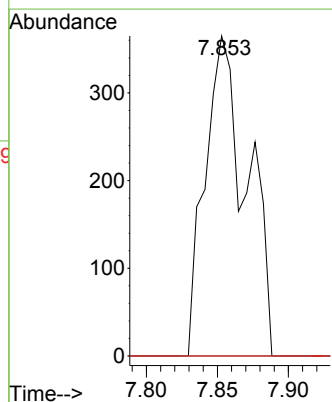
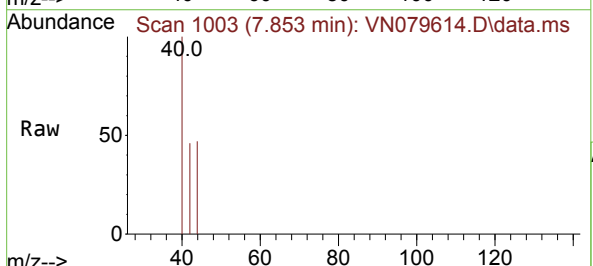
Instrument :
MSVOA_N
ClientSampleId :

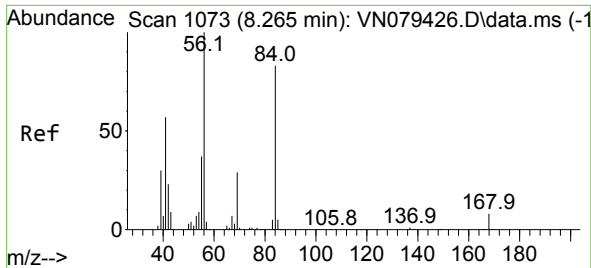
Tgt Ion: 43 Resp: 4984
Ion Ratio Lower Upper
43 100
72 18.5 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.525 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

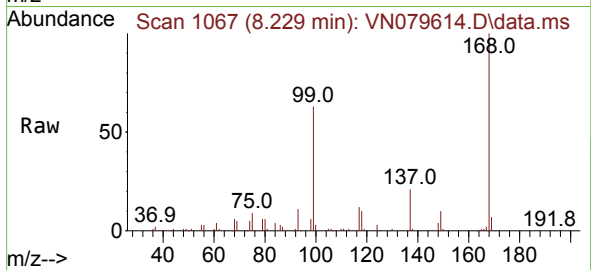
Tgt Ion: 42 Resp: 748
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



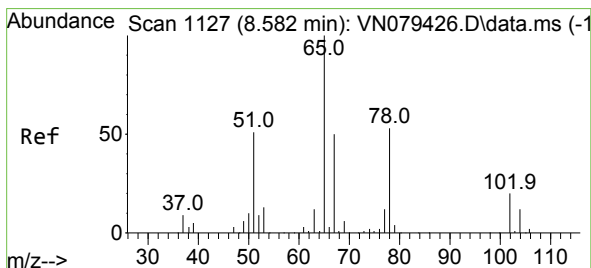
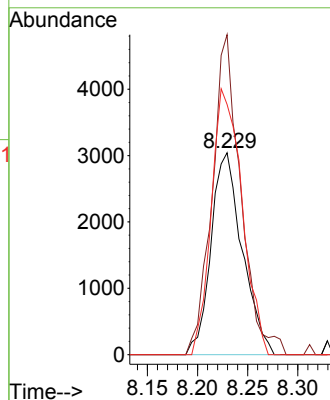
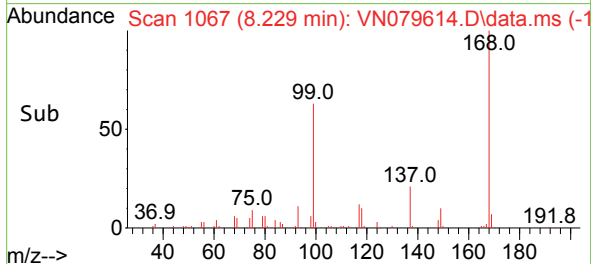


#31
Cyclohexane
Concen: 1.243 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Instrument :
MSVOA_N
ClientSampleId :

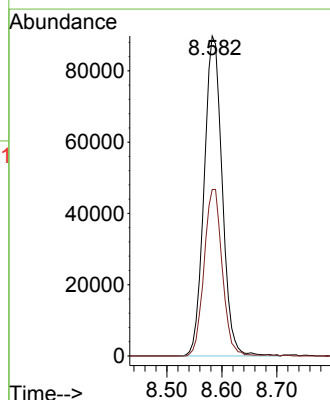
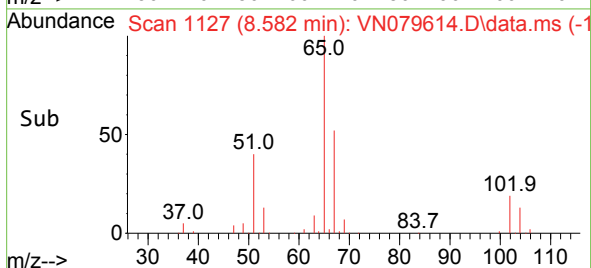
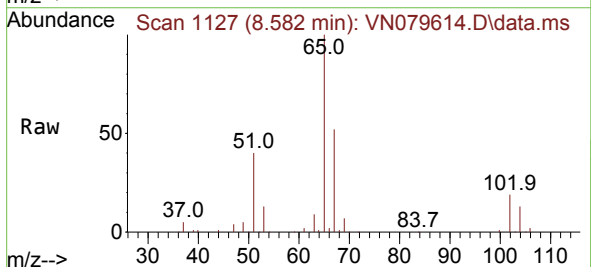


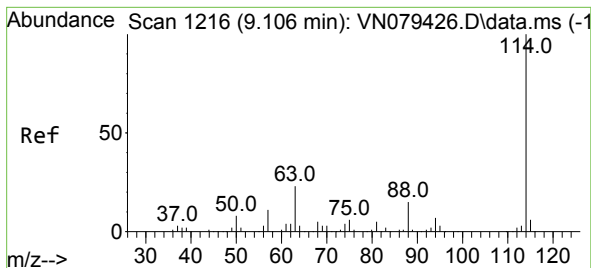
Tgt Ion: 56 Resp: 6592
Ion Ratio Lower Upper
56 100
69 158.5 26.8 40.2#
84 123.9 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.866 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 65 Resp: 205167
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079614.D

Acq: 19 Oct 2023 13:14

Instrument :

MSVOA_N

ClientSampleId :

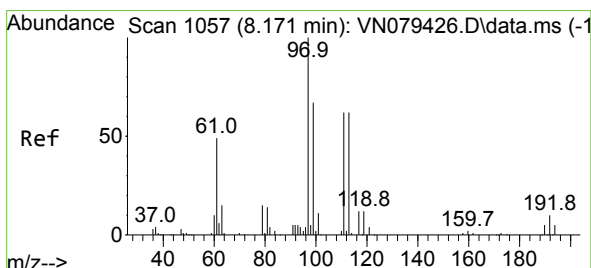
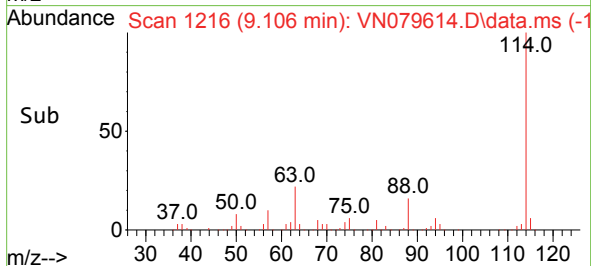
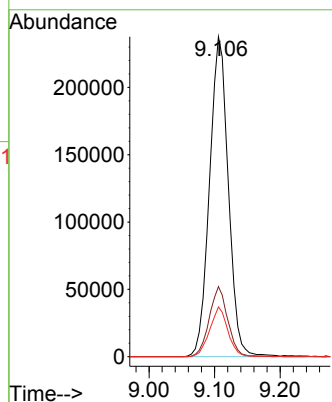
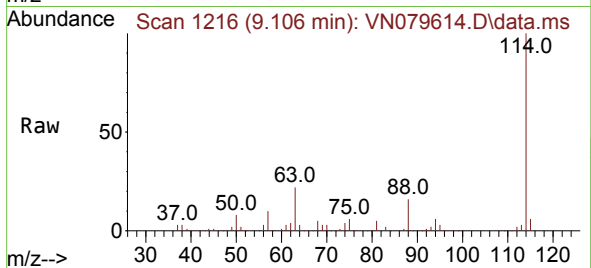
Tgt Ion:114 Resp: 473234

Ion Ratio Lower Upper

114 100

63 21.9 0.0 36.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.084 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079614.D

Acq: 19 Oct 2023 13:14

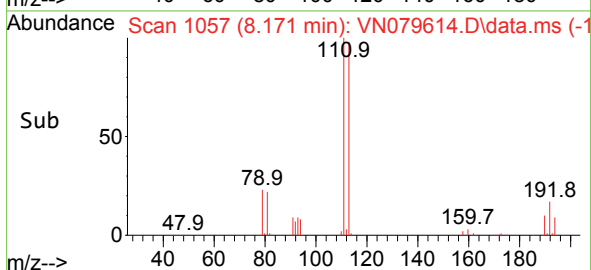
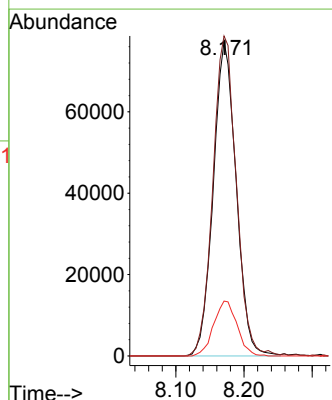
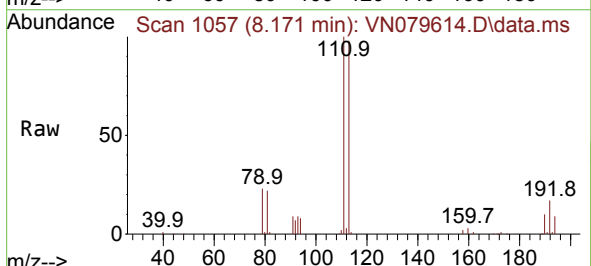
Tgt Ion:113 Resp: 180531

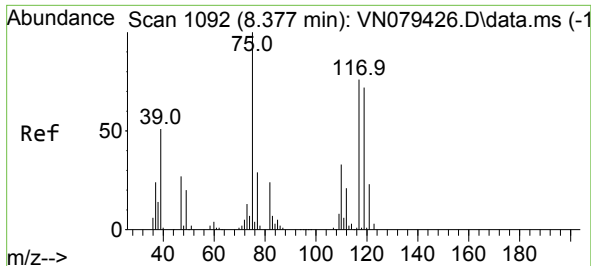
Ion Ratio Lower Upper

113 100

111 104.2 82.6 123.8

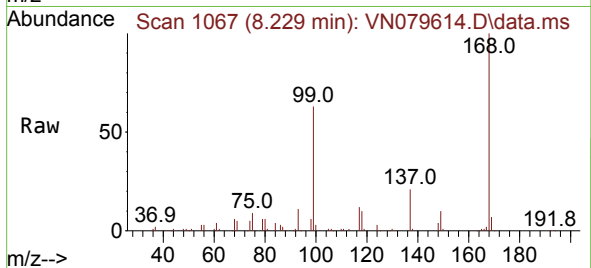
192 17.9 12.7 19.1



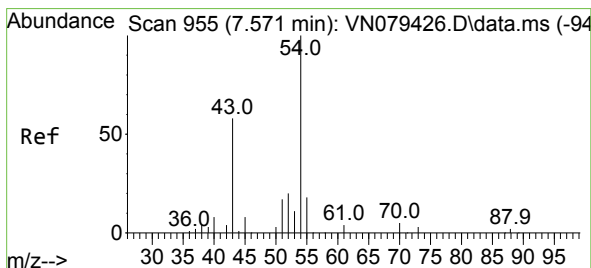
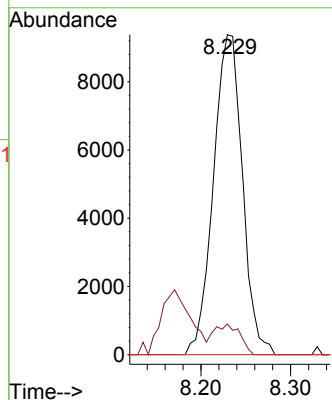
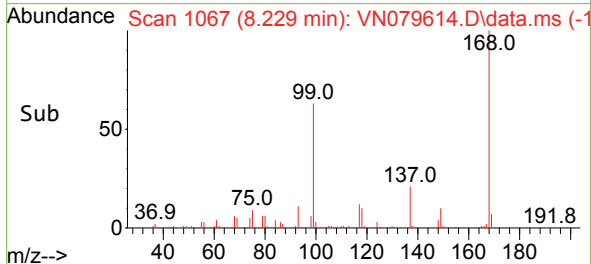


#36
1,1-Dichloropropene
Concen: 4.129 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Instrument :
MSVOA_N
ClientSampleId :

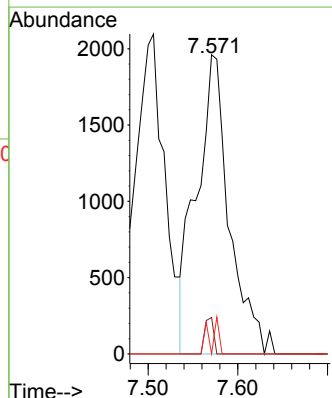
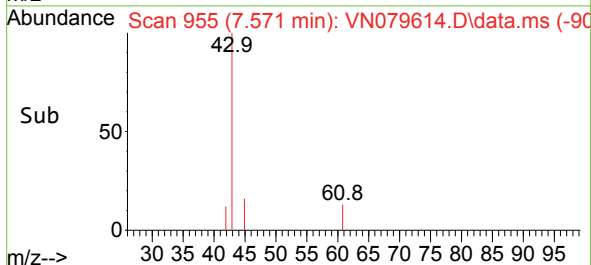
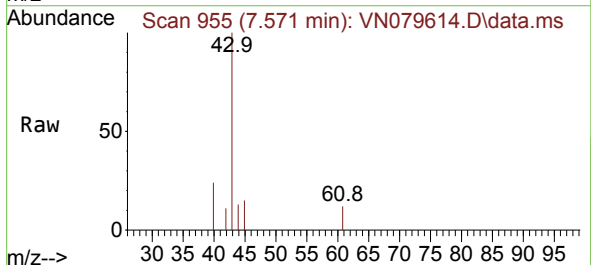


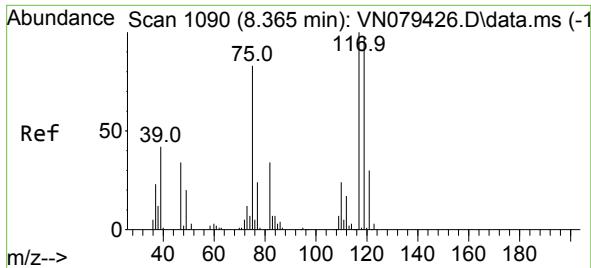
Tgt Ion: 75 Resp: 21077
Ion Ratio Lower Upper
75 100
110 8.6 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.985 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

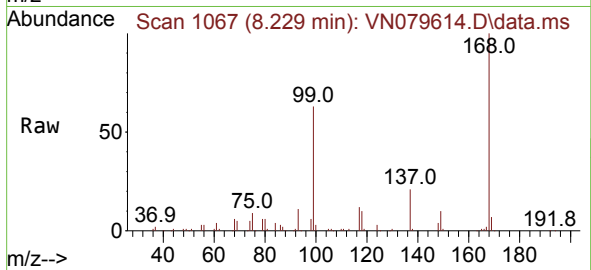
Tgt Ion: 43 Resp: 5003
Ion Ratio Lower Upper
43 100
61 3.2 13.2 19.8#
70 1.5 11.3 16.9#



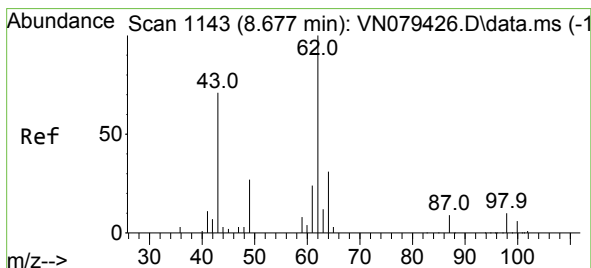
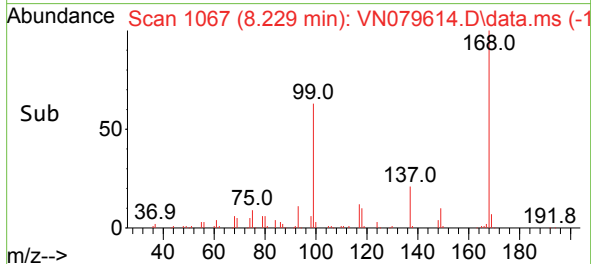
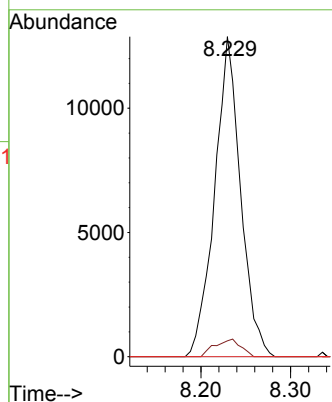


#38
Carbon Tetrachloride
Concen: 5.057 ug/l
RT: 8.229 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Instrument :
MSVOA_N
ClientSampleId :

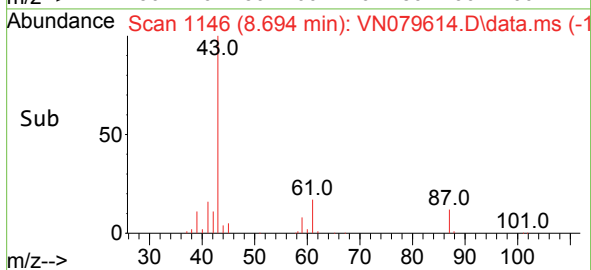
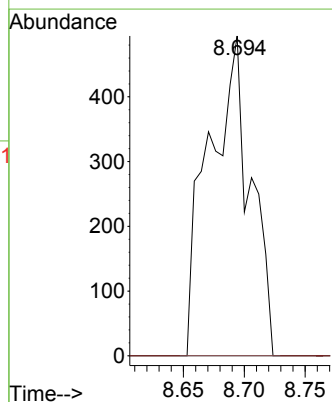
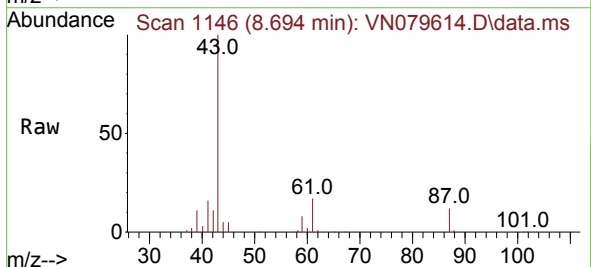


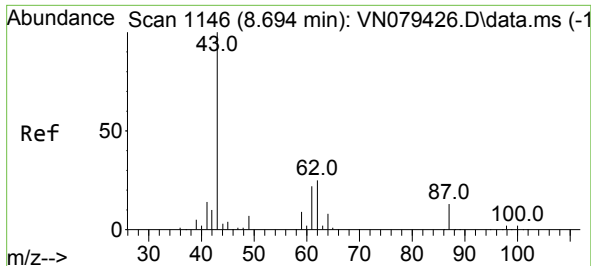
Tgt Ion:117 Resp: 25839
Ion Ratio Lower Upper
117 100
119 4.9 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.214 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.018 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 62 Resp: 1180
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

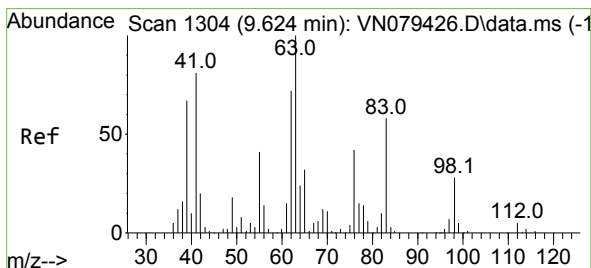
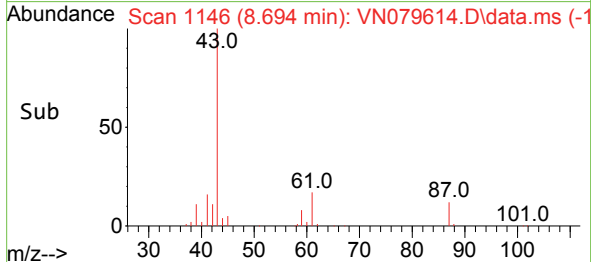
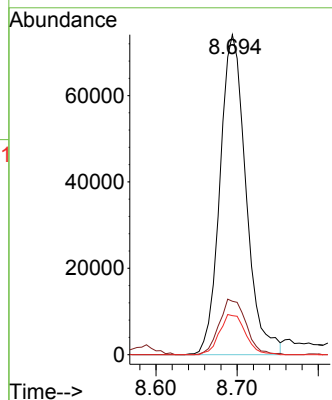
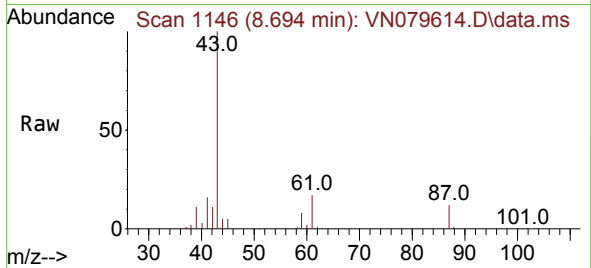




#43
Isopropyl Acetate
Concen: 18.547 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

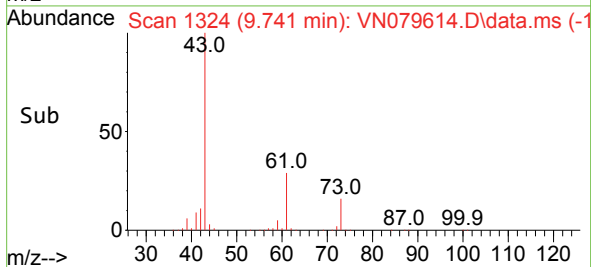
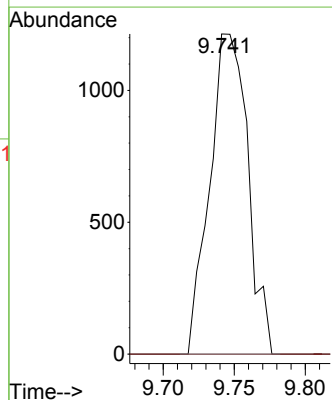
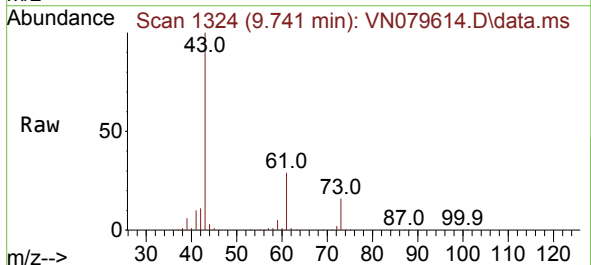
Instrument :
MSVOA_N
ClientSampleId :

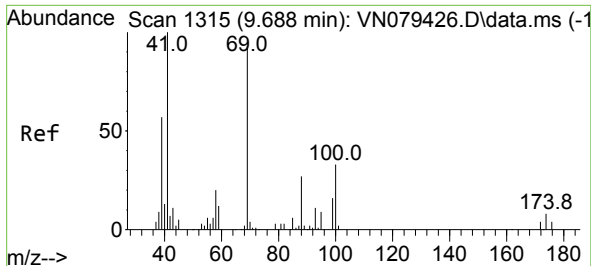
Tgt Ion: 43 Resp: 165029
Ion Ratio Lower Upper
43 100
61 17.9 24.7 37.1#
87 12.5 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.568 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

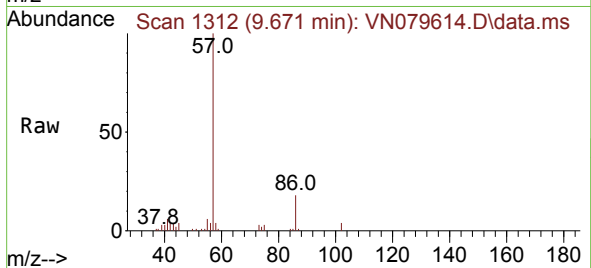
Tgt Ion: 63 Resp: 2268
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



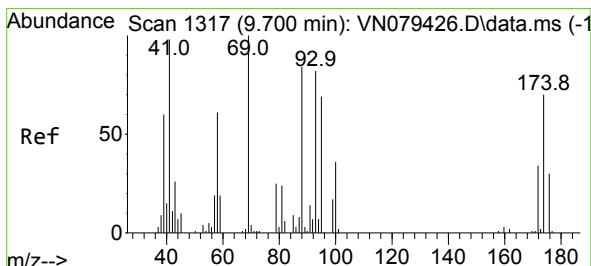
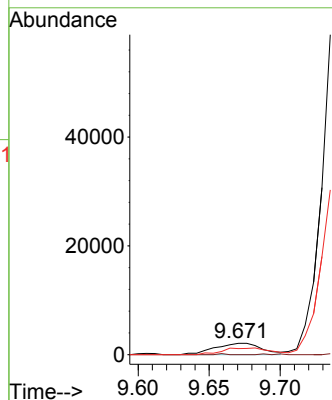
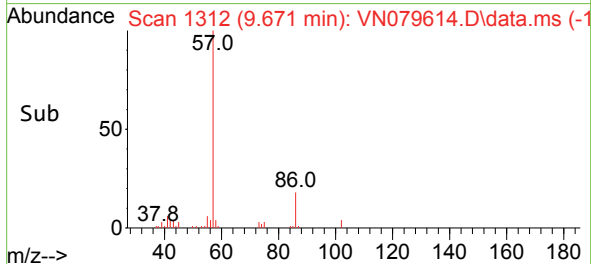


#48
Methyl methacrylate
Concen: 1.268 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

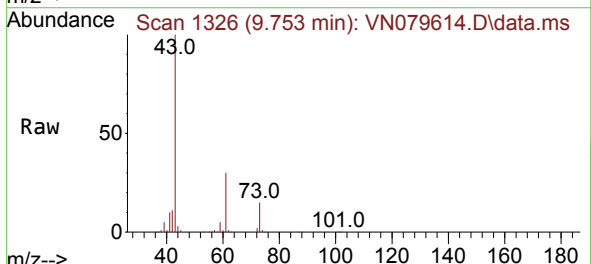
Instrument :
MSVOA_N
ClientSampleId :



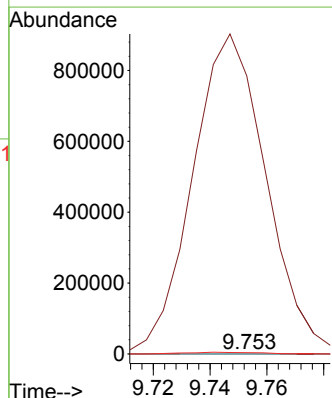
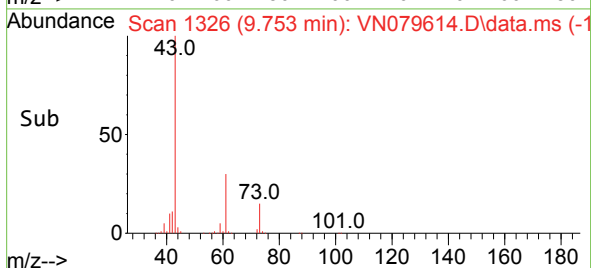
Tgt Ion: 41 Resp: 4833
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 60.4 54.6 81.8

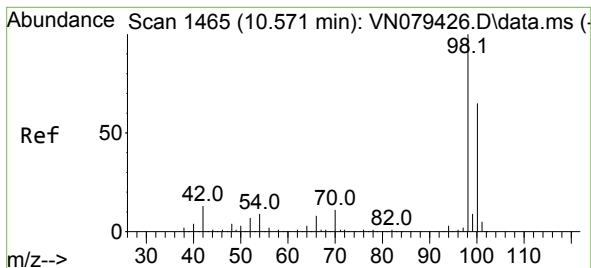


#49
1,4-Dioxane
Concen: 1.851 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.053 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14



Tgt Ion: 88 Resp: 130
Ion Ratio Lower Upper
88 100
43 1266248.5 17.0 25.6#
58 7192.3 47.0 70.4#

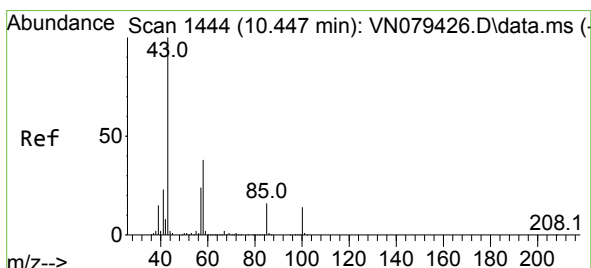
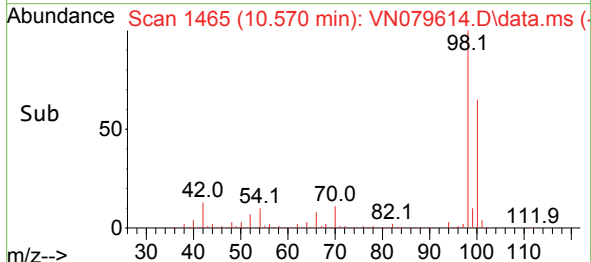
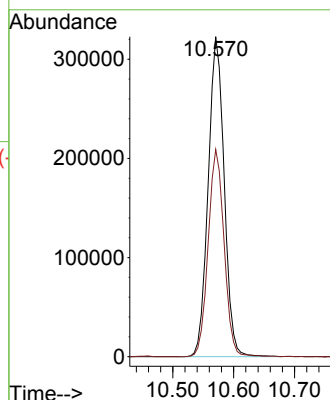
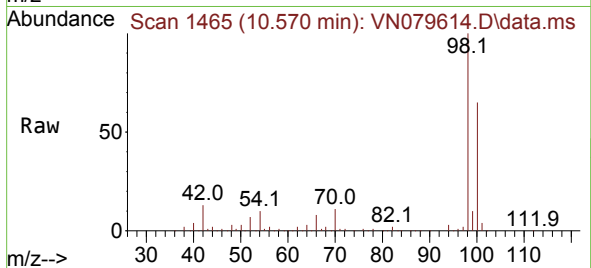




#50
Toluene-d8
Concen: 47.981 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

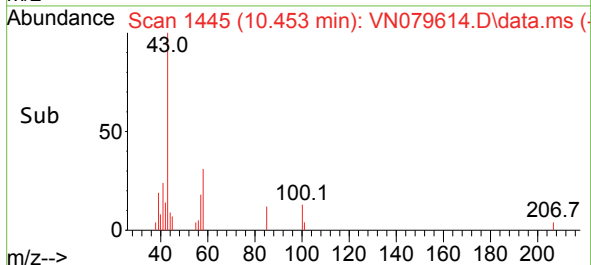
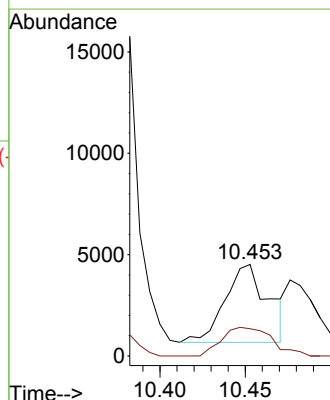
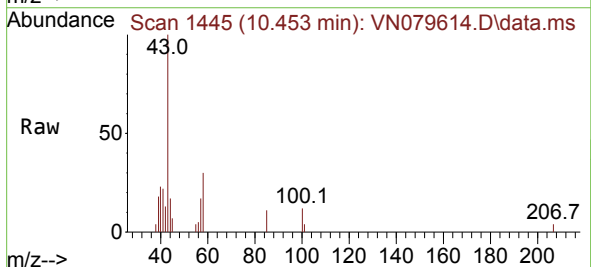
Instrument :
MSVOA_N
ClientSampleId :

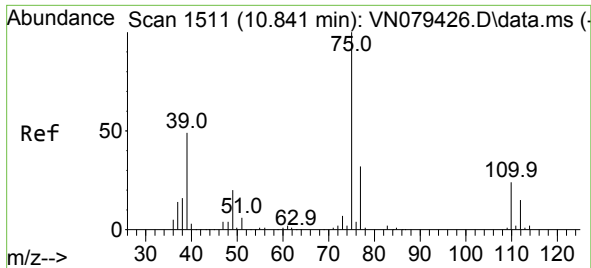
Tgt Ion: 98 Resp: 590419
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.348 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 43 Resp: 6770
Ion Ratio Lower Upper
43 100
58 42.8 36.6 54.8

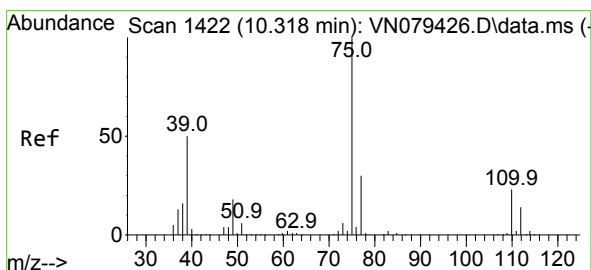
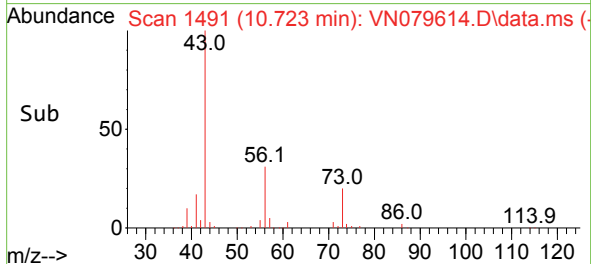
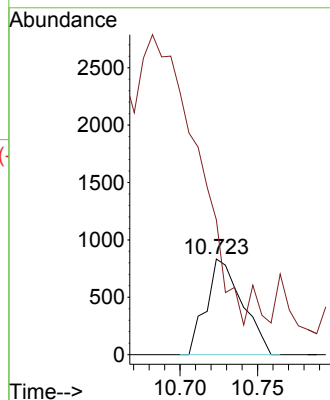
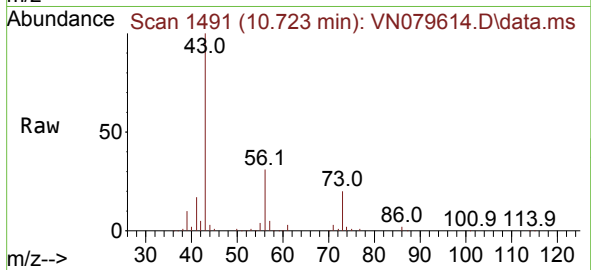




#53
 t-1,3-Dichloropropene
 Concen: 0.251 ug/l
 RT: 10.723 min Scan# 1491
 Delta R.T. -0.118 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

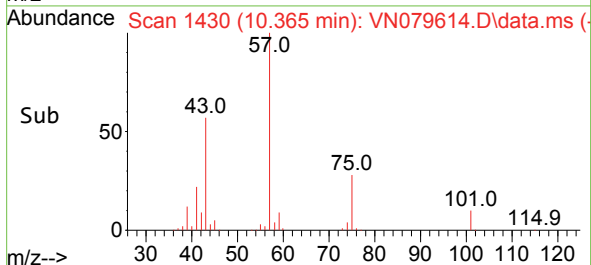
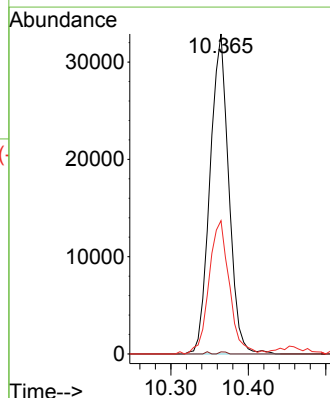
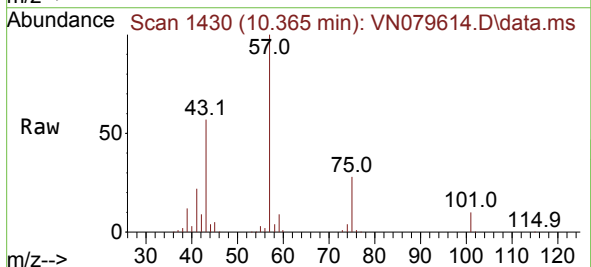
Instrument :
 MSVOA_N
 ClientSampleId :

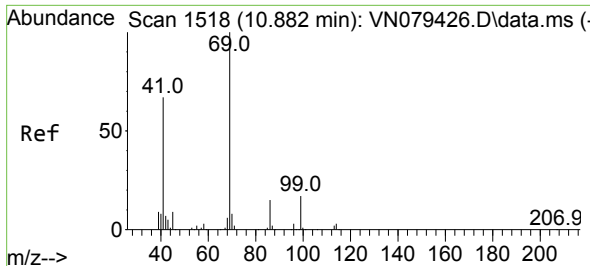
Tgt Ion: 75 Resp: 1344
 Ion Ratio Lower Upper
 75 100
 77 56.8 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 9.444 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

Tgt Ion: 75 Resp: 55436
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 40.9 31.6 47.4

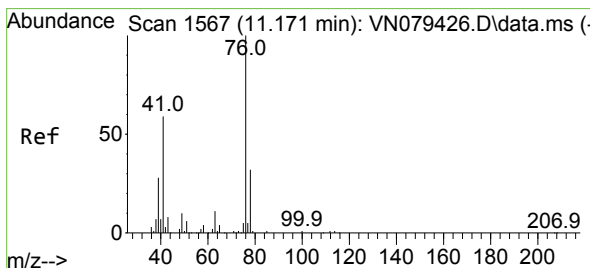
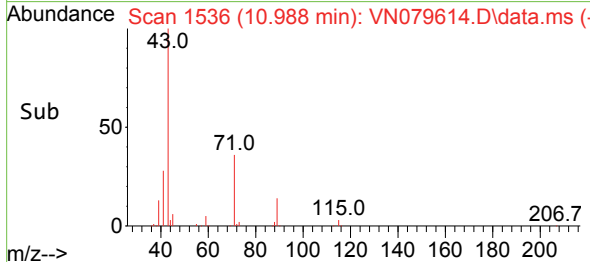
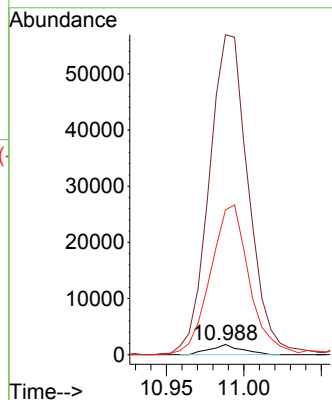
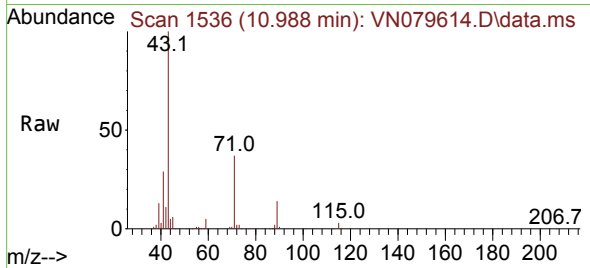




#56
Ethyl methacrylate
Concen: 0.521 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

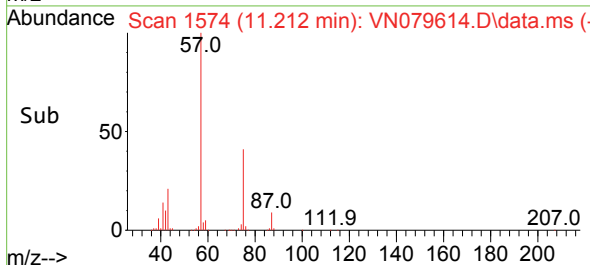
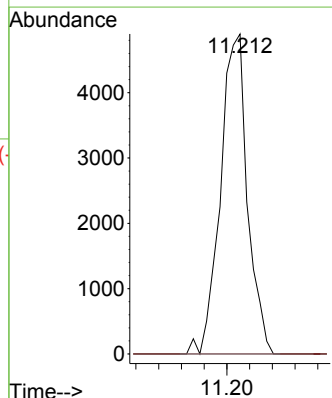
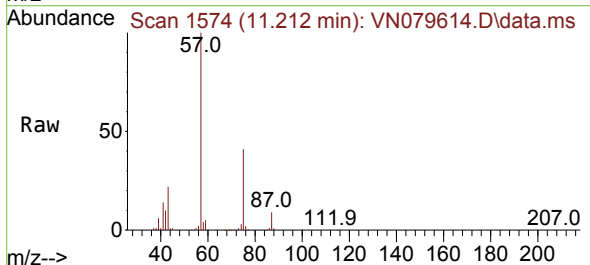
Instrument :
MSVOA_N
ClientSampleId :

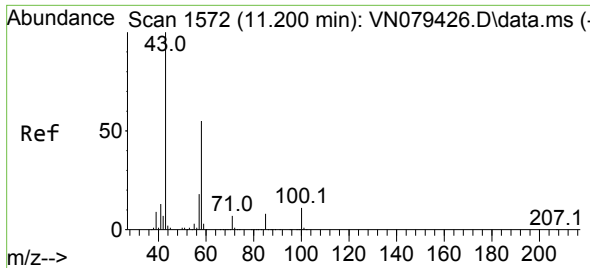
Tgt Ion: 69 Resp: 2564
Ion Ratio Lower Upper
69 100
41 3933.4 39.6 59.4#
39 1810.8 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.306 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.041 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 76 Resp: 8076
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

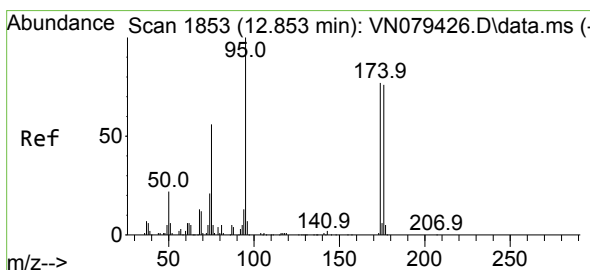
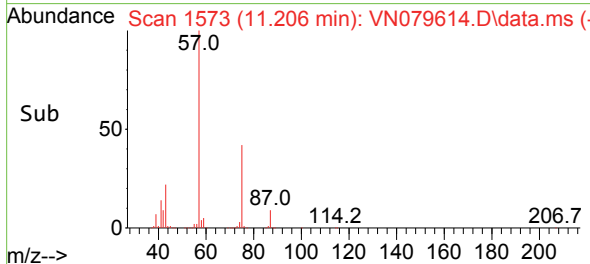
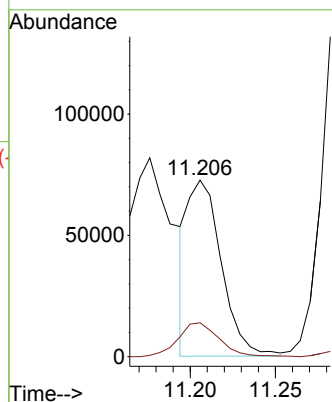
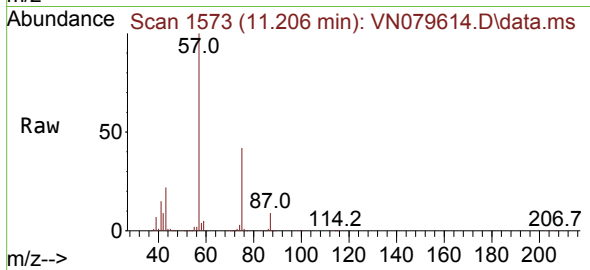




#59
2-Hexanone
Concen: 27.583 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

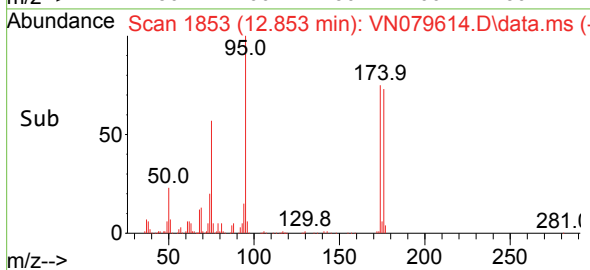
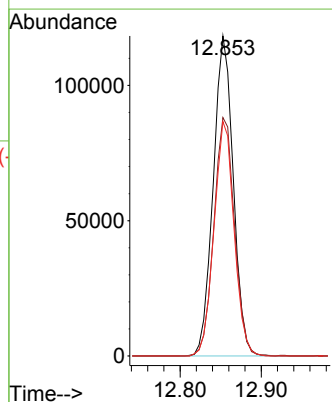
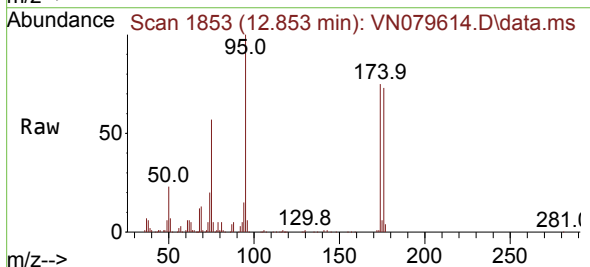
Instrument :
MSVOA_N
ClientSampleId :

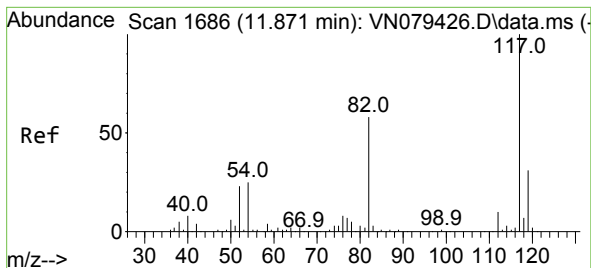
Tgt Ion: 43 Resp: 99974
Ion Ratio Lower Upper
43 100
58 23.5 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.332 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion: 95 Resp: 202711
Ion Ratio Lower Upper
95 100
174 76.9 0.0 143.8
176 73.5 0.0 135.8

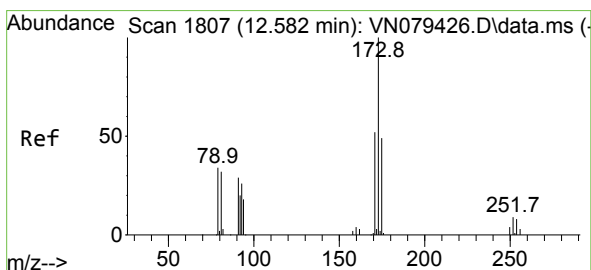
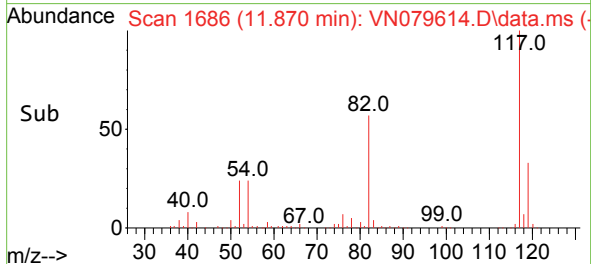
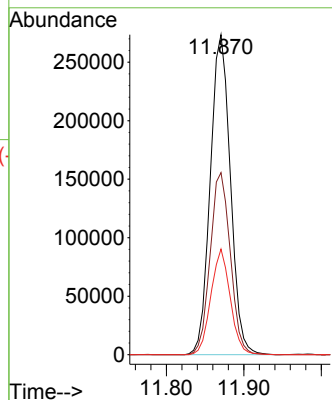
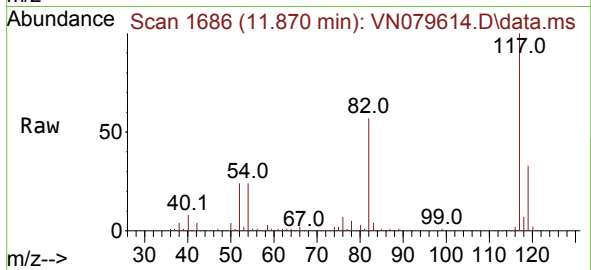




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

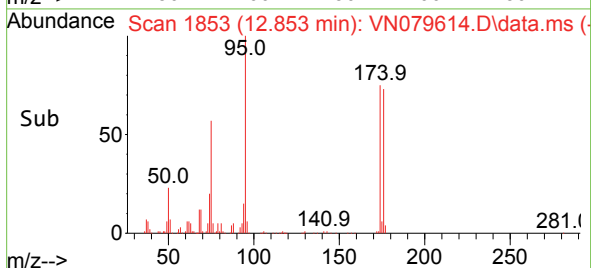
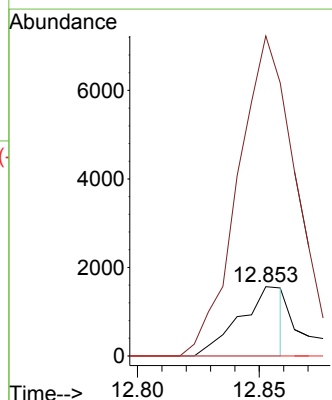
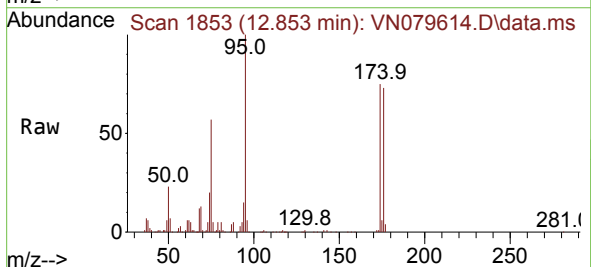
Instrument :
MSVOA_N
ClientSampleId :

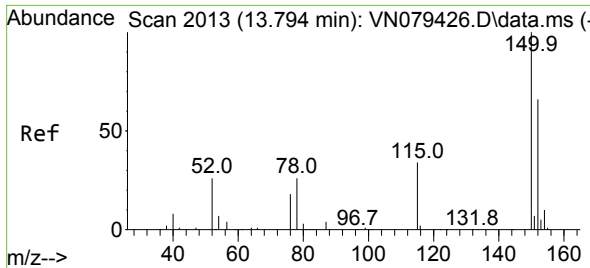
Tgt Ion:117 Resp: 493041
Ion Ratio Lower Upper
117 100
82 56.9 44.0 66.0
119 33.0 25.6 38.4



#71
Bromoform
Concen: 0.676 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN079614.D
Acq: 19 Oct 2023 13:14

Tgt Ion:173 Resp: 1989
Ion Ratio Lower Upper
173 100
175 462.3 24.3 73.0#
254 0.0 0.0 0.0

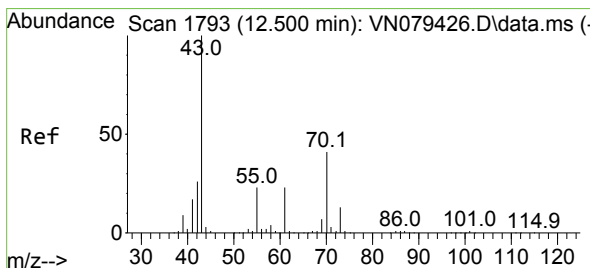
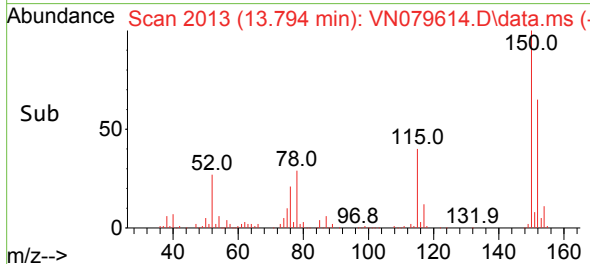
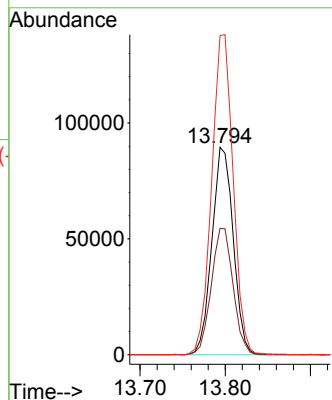
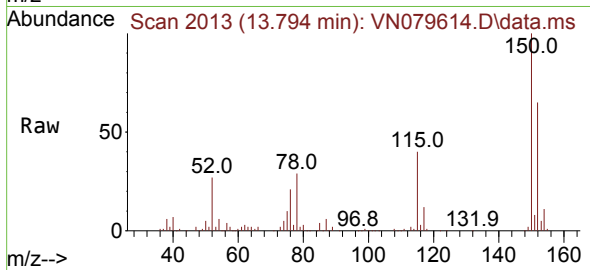




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

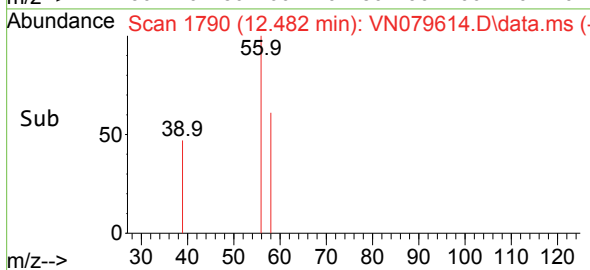
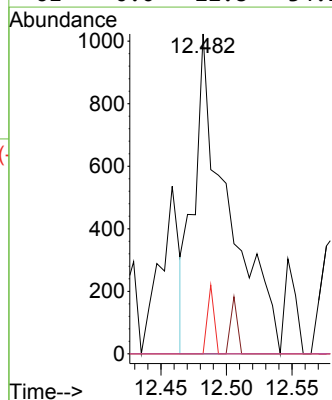
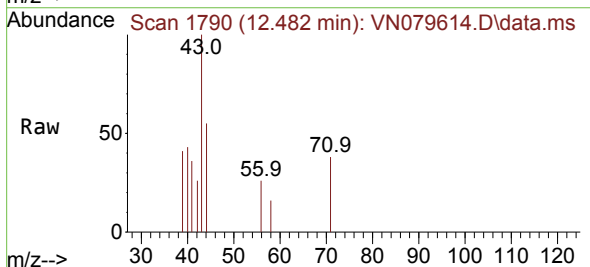
Instrument :
 MSVOA_N
 ClientSampleId :

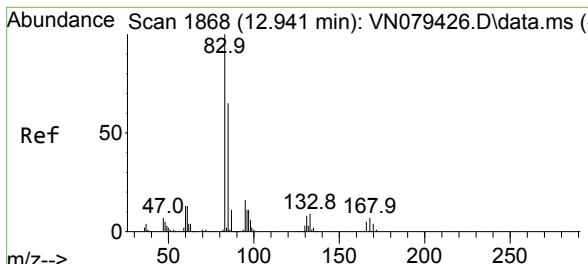
Tgt Ion:152 Resp: 155524
 Ion Ratio Lower Upper
 152 100
 115 62.1 32.3 96.8
 150 155.3 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.312 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.018 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

Tgt Ion: 43 Resp: 1853
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 4.2 21.4 32.0#
 61 0.0 22.8 34.2#

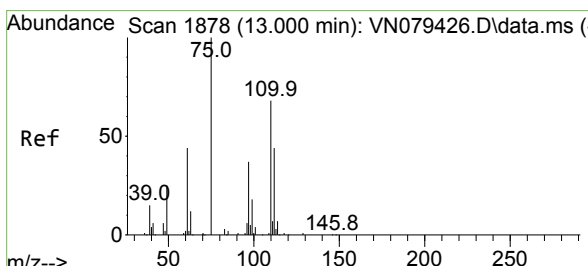
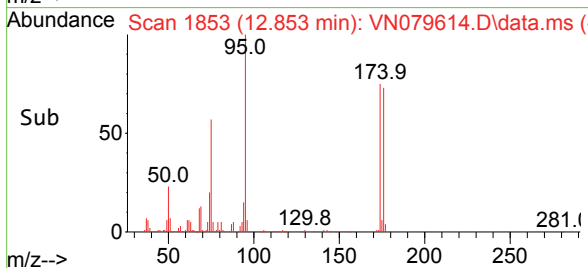
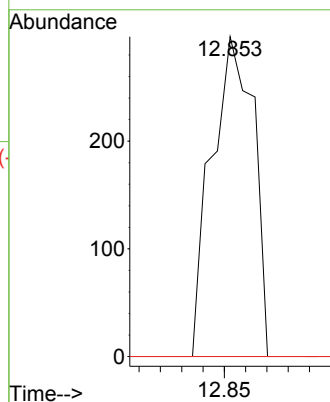
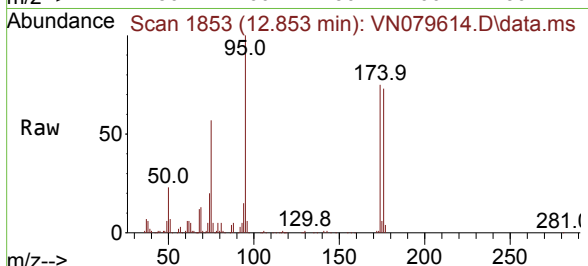




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.088 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

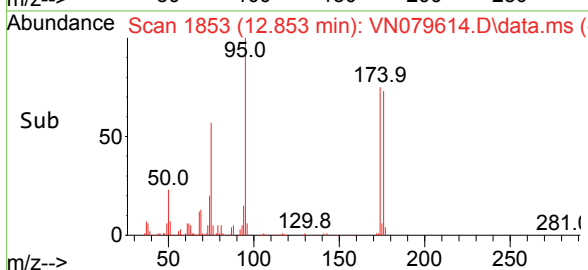
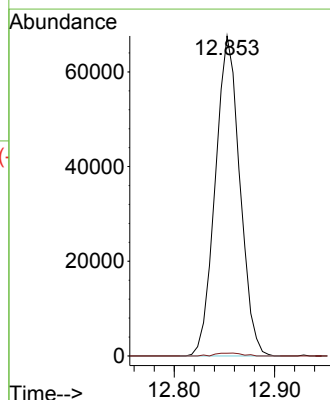
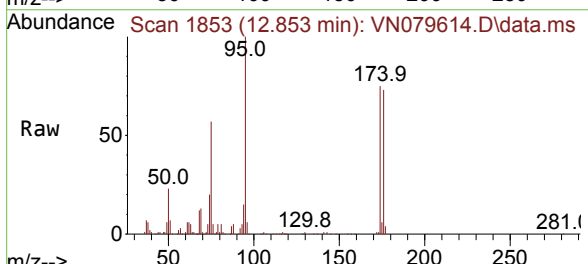
Instrument :
 MSVOA_N
 ClientSampleId :

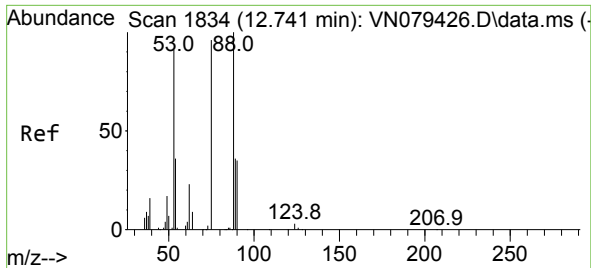
Tgt Ion: 83 Resp: 408
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.0 15.0#
 85 0.0 31.9 95.7#



#76
 1,2,3-Trichloropropane
 Concen: 25.633 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

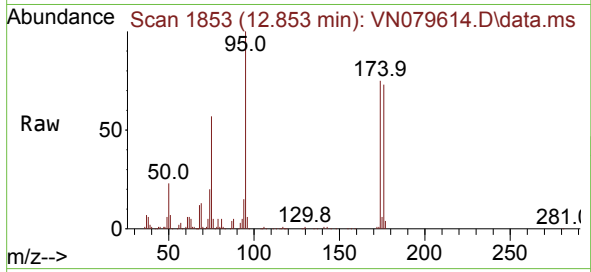
Tgt Ion: 75 Resp: 114943
 Ion Ratio Lower Upper
 75 100
 77 1.0 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.375 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079614.D
 Acq: 19 Oct 2023 13:14

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 114943
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

