

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101923\
 Data File : VN079613.D
 Acq On : 19 Oct 2023 12:50
 Operator : JC\MD
 Sample : 04919-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 20 01:28:30 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)

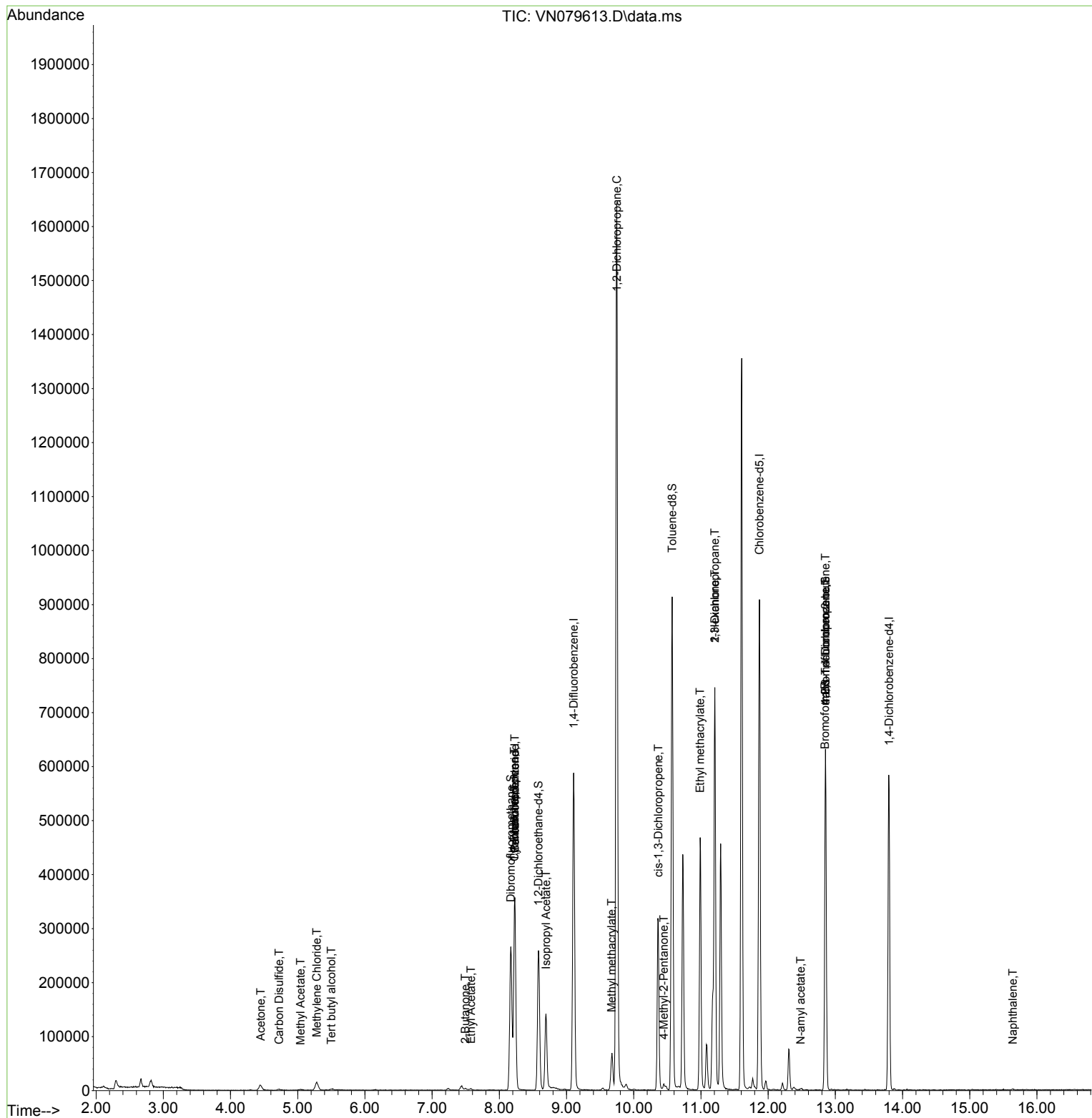
Internal Standards						
1) Pentafluorobenzene	8.230	168	247108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	494528	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	503260	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	152241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	209386	52.259	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.520%	
35) Dibromofluoromethane	8.171	113	188639	53.080	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.160%	
50) Toluene-d8	10.571	98	616014	47.906	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.820%	
62) 4-Bromofluorobenzene	12.853	95	203804	49.387	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.780%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.500	59	1659	2.751	ug/l #	72
16) Acetone	4.448	43	19721	12.410	ug/l	92
17) Carbon Disulfide	4.724	76	3966	0.435	ug/l #	75
18) Methyl Acetate	5.042	43	2619	0.337	ug/l #	70
20) Methylene Chloride	5.283	84	11118	2.624	ug/l #	88
25) 2-Butanone	7.494	43	5513	2.337	ug/l #	57
31) Cyclohexane	8.224	56	7270	1.279	ug/l #	56
36) 1,1-Dichloropropene	8.224	75	22643	4.245	ug/l #	48
37) Ethyl Acetate	7.577	43	4770	0.899	ug/l #	77
38) Carbon Tetrachloride	8.230	117	26937	5.045	ug/l #	17
43) Isopropyl Acetate	8.694	43	161501	17.369	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	1965	0.471	ug/l #	45
48) Methyl methacrylate	9.671	41	4665	1.171	ug/l #	34
51) 4-Methyl-2-Pentanone	10.447	43	12739	2.427	ug/l #	63
54) cis-1,3-Dichloropropene	10.365	75	53336	8.695	ug/l #	73
56) Ethyl methacrylate	10.988	69	2435	0.473	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7626	1.180	ug/l #	42
59) 2-Hexanone	11.206	43	91793	24.235	ug/l #	50
71) Bromoform	12.847	173	1673	0.557	ug/l #	1
74) N-amyl acetate	12.482	43	1968	0.339	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.947	83	53	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	115729	26.365	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	115729	76.499	ug/l #	15
95) Naphthalene	15.641	128	1938	0.381	ug/l #	85

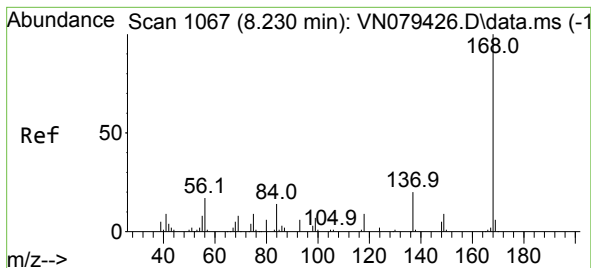
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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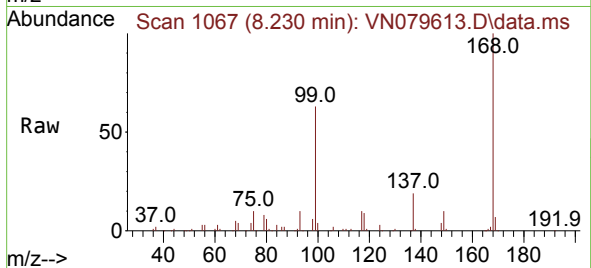
Quant Time: Oct 20 01:28:30 2023
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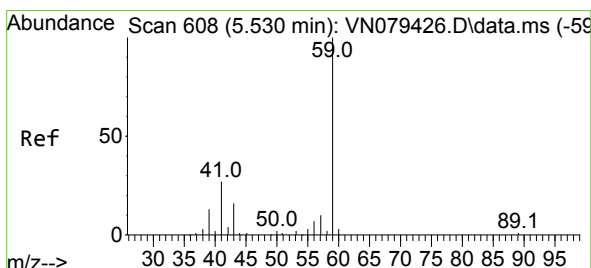
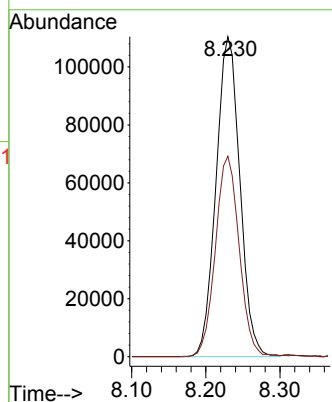
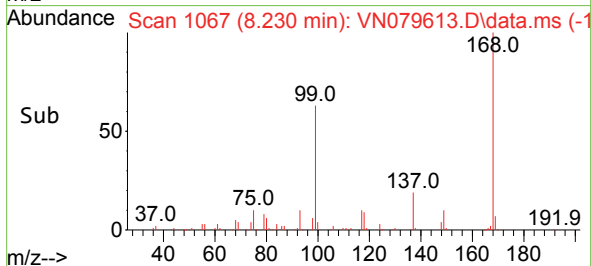


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Instrument :
MSVOA_N
ClientSampleId :

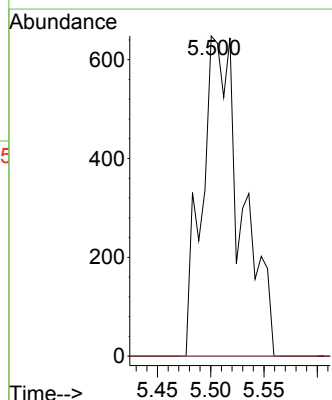
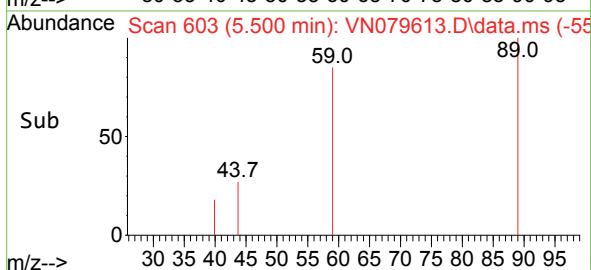
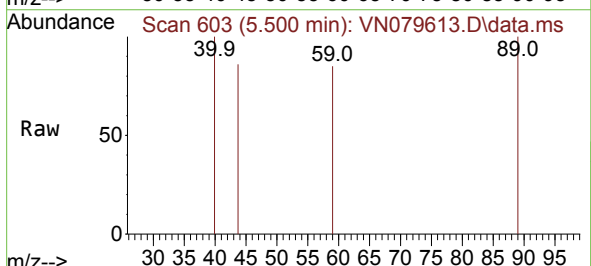


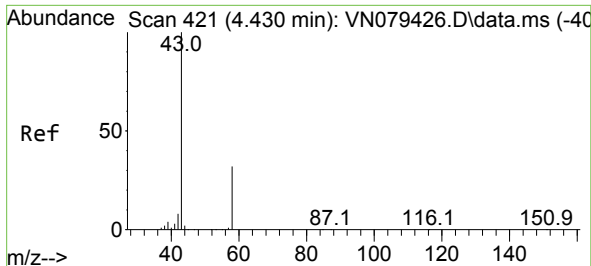
Tgt Ion:168 Resp: 247108
Ion Ratio Lower Upper
168 100
99 62.6 53.0 79.6



#11
Tert butyl alcohol
Concen: 2.751 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.030 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 59 Resp: 1659
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

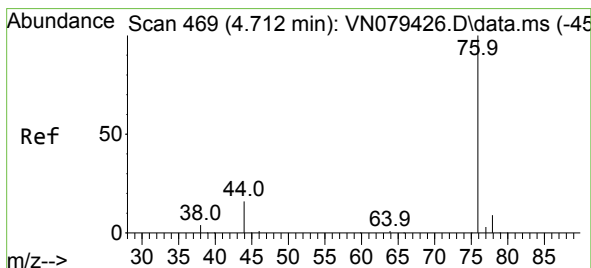
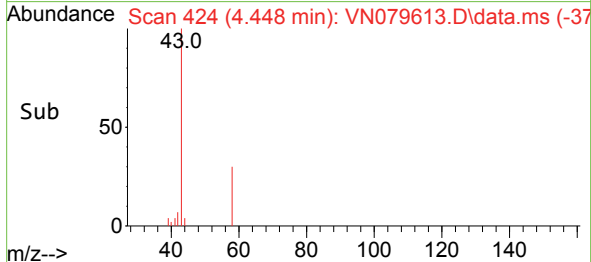
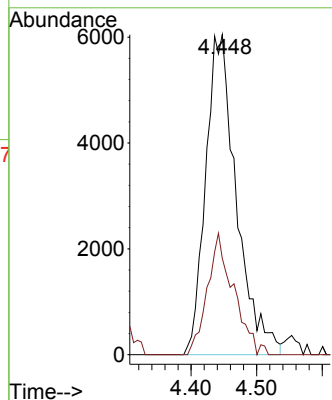
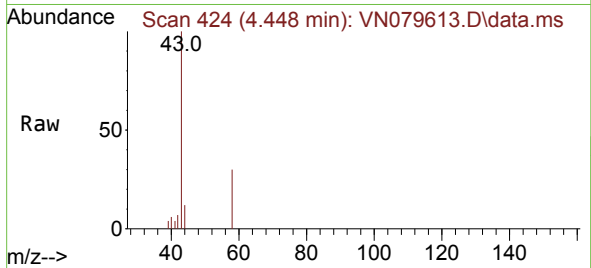




#16
Acetone
Concen: 12.410 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

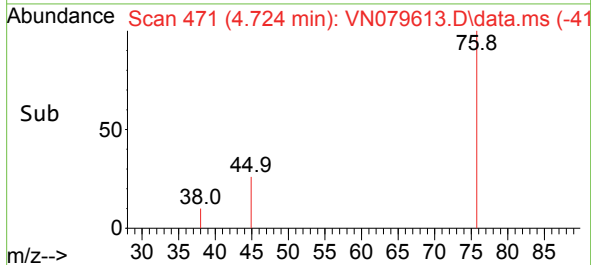
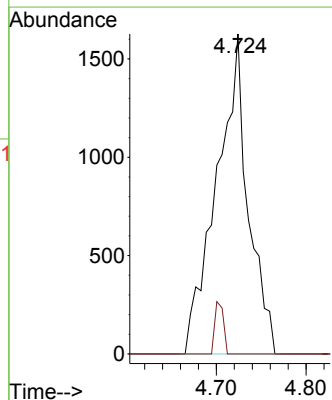
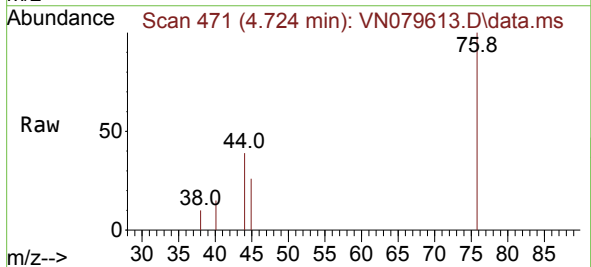
Instrument :
MSVOA_N
ClientSampleId :

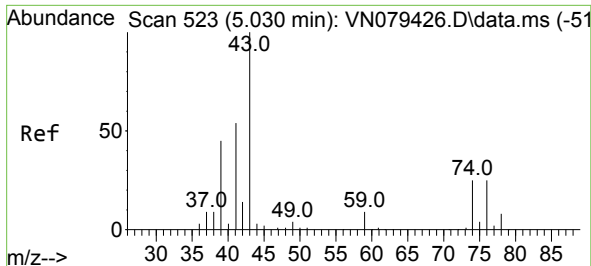
Tgt Ion: 43 Resp: 19721
Ion Ratio Lower Upper
43 100
58 30.1 28.0 42.0



#17
Carbon Disulfide
Concen: 0.435 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 76 Resp: 3966
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

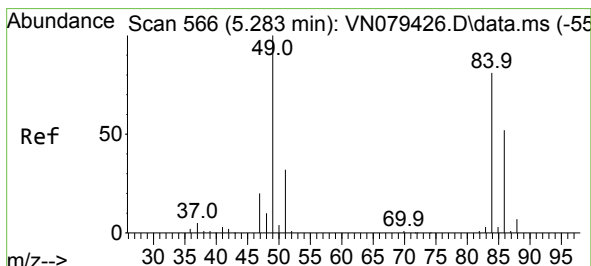
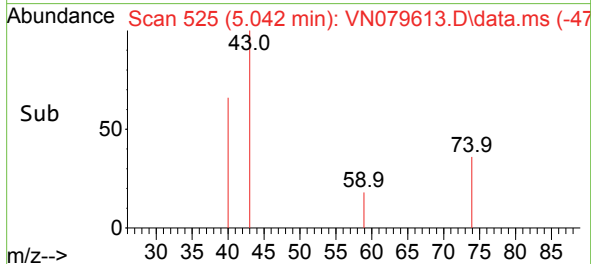
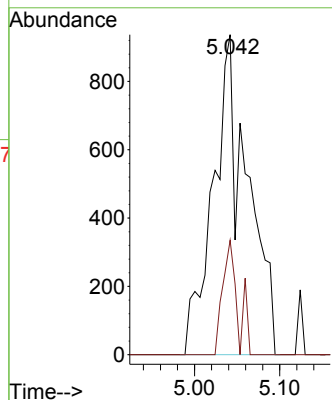
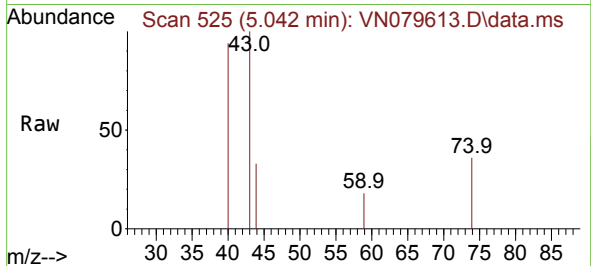




#18
Methyl Acetate
Concen: 0.337 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

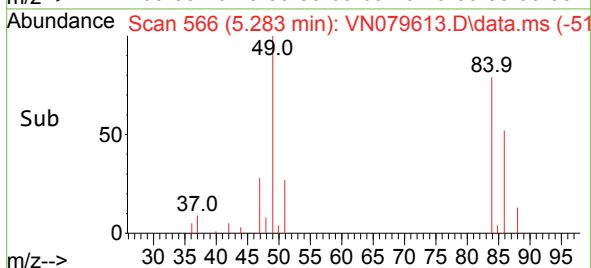
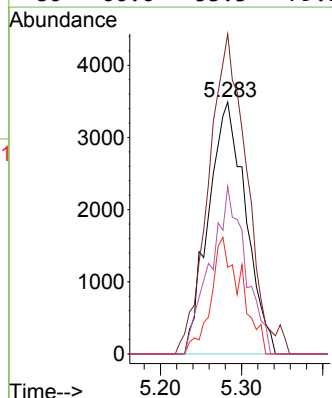
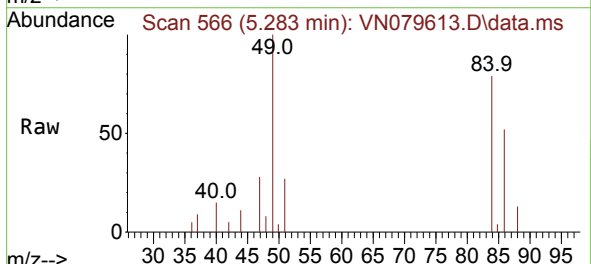
Instrument :
MSVOA_N
ClientSampleId :

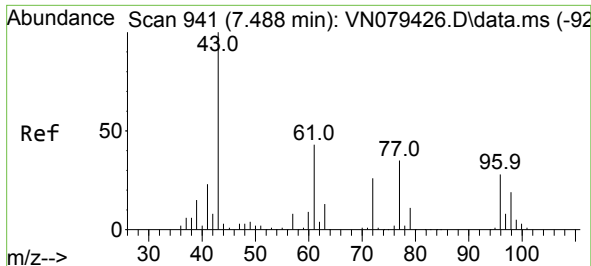
Tgt Ion: 43 Resp: 2619
Ion Ratio Lower Upper
43 100
74 15.6 26.2 39.4#



#20
Methylene Chloride
Concen: 2.624 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 84 Resp: 11118
Ion Ratio Lower Upper
84 100
49 122.6 79.7 119.5#
51 34.4 25.2 37.8
86 66.6 53.3 79.9

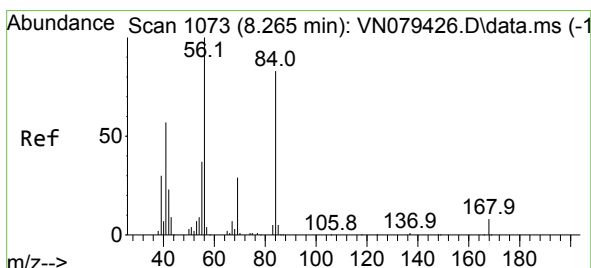
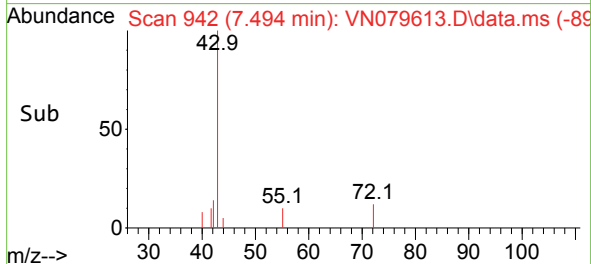
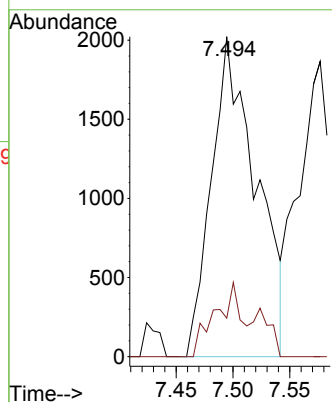
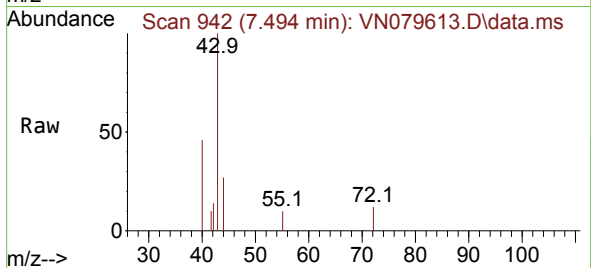




#25
2-Butanone
Concen: 2.337 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

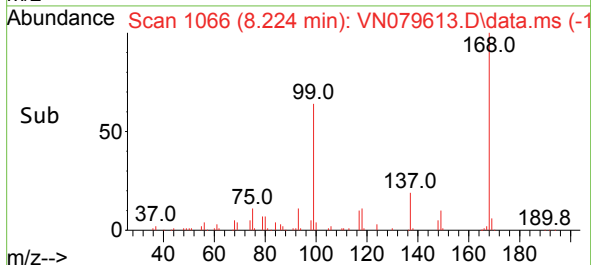
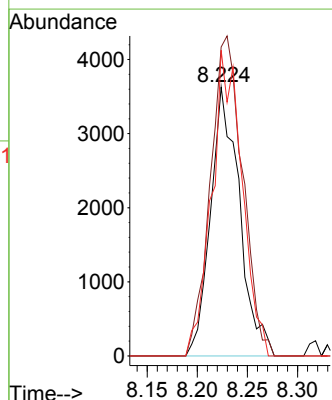
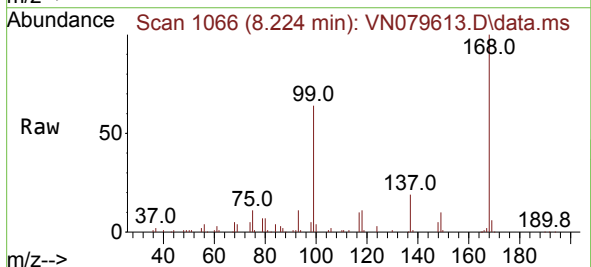
Instrument :
MSVOA_N
ClientSampleId :

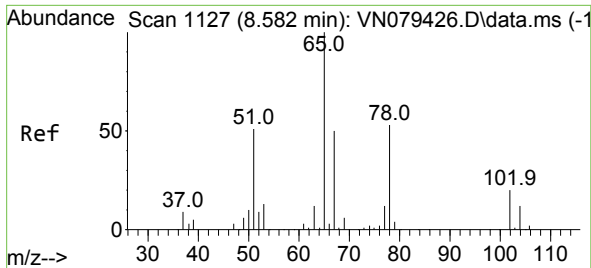
Tgt Ion: 43 Resp: 5513
Ion Ratio Lower Upper
43 100
72 12.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.279 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 56 Resp: 7270
Ion Ratio Lower Upper
56 100
69 114.9 26.8 40.2#
84 113.7 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 52.259 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

Instrument :

MSVOA_N

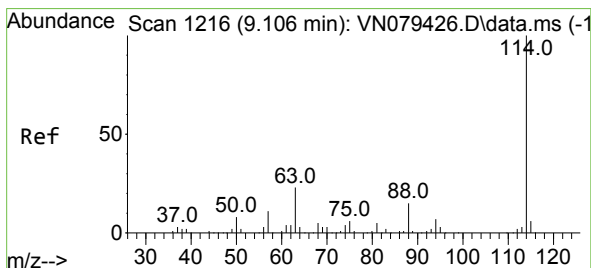
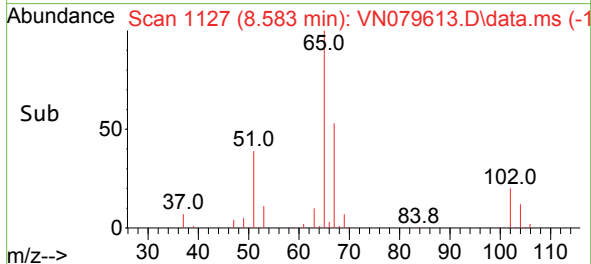
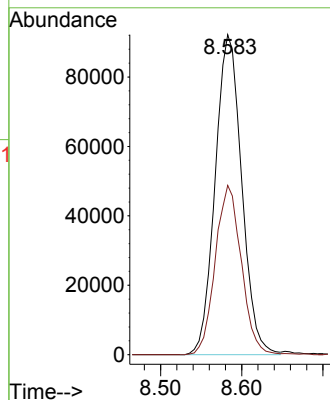
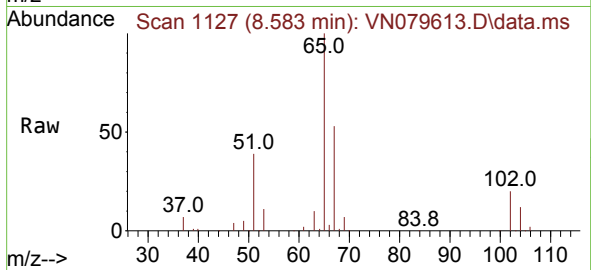
ClientSampleId :

Tgt Ion: 65 Resp: 209386

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

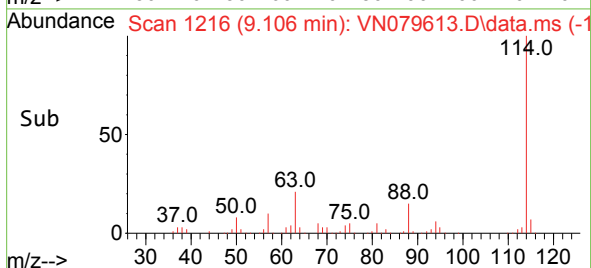
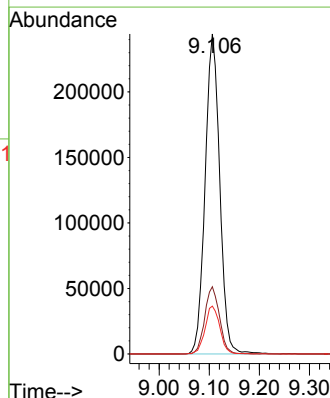
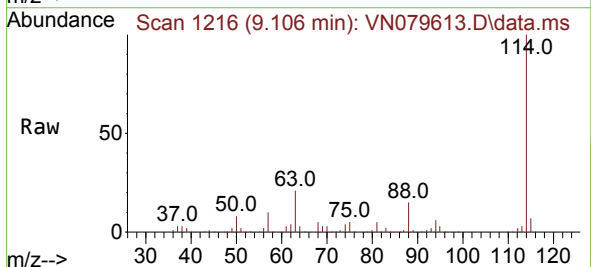
Tgt Ion: 114 Resp: 494528

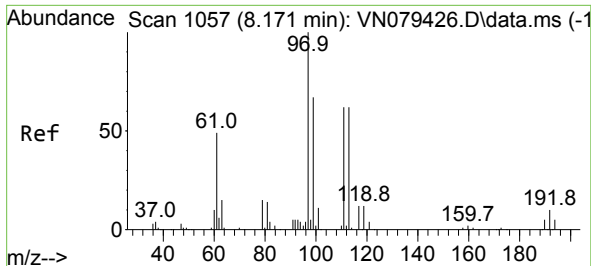
Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.4

88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.080 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

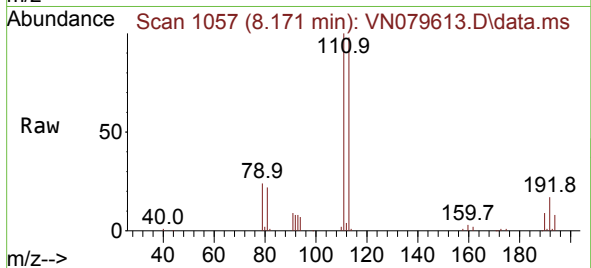
Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

Instrument :

MSVOA_N

ClientSampleId :



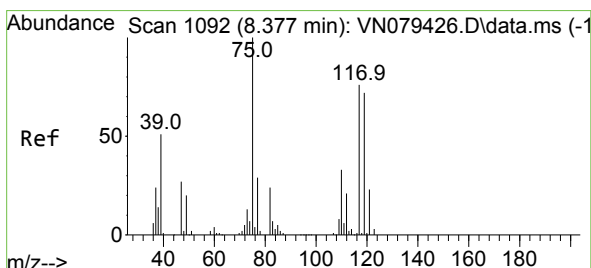
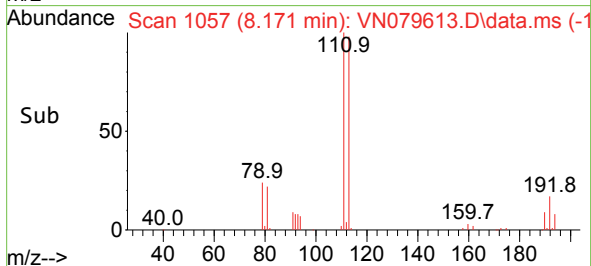
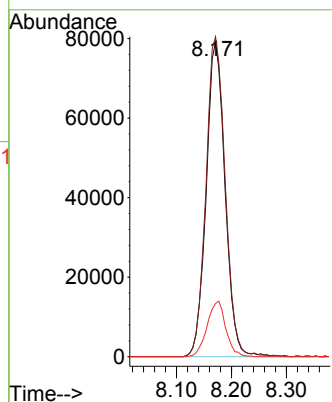
Tgt Ion:113 Resp: 188639

Ion Ratio Lower Upper

113 100

111 103.8 82.6 123.8

192 17.5 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.245 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

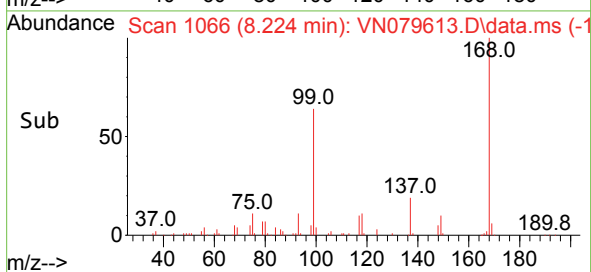
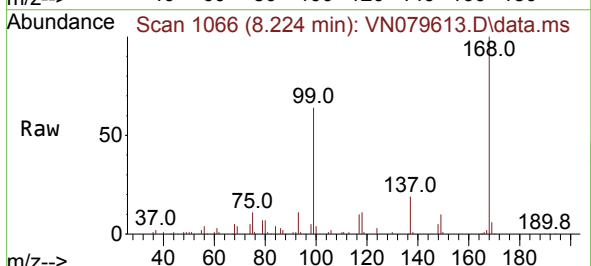
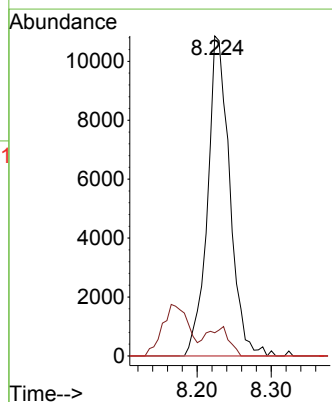
Tgt Ion: 75 Resp: 22643

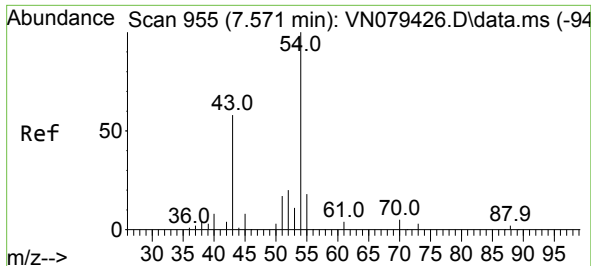
Ion Ratio Lower Upper

75 100

110 9.3 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.899 ug/l

RT: 7.577 min Scan# 91

Delta R.T. 0.006 min

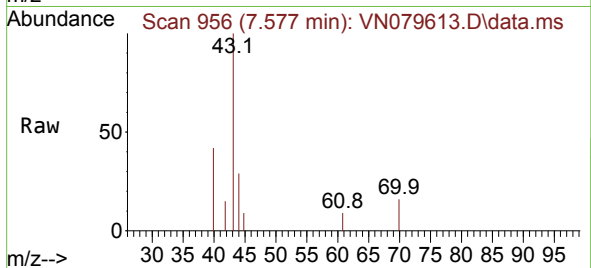
Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

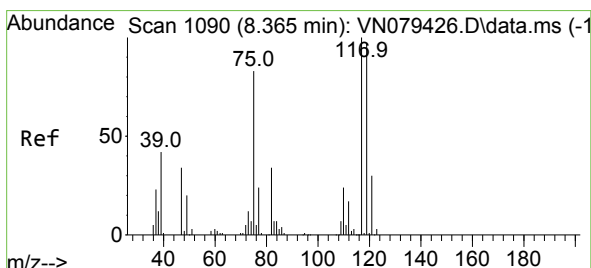
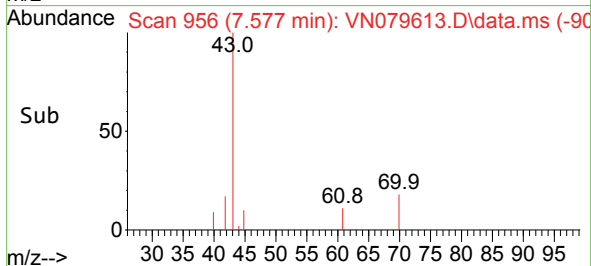
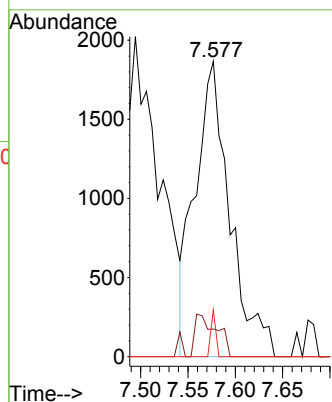
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4770
Ion	Ratio	Lower	Upper
43	100		
61	9.0	13.2	19.8#
70	2.2	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 5.045 ug/l

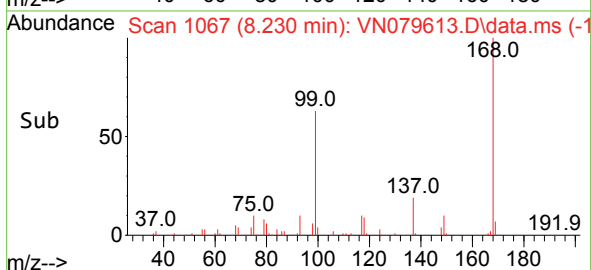
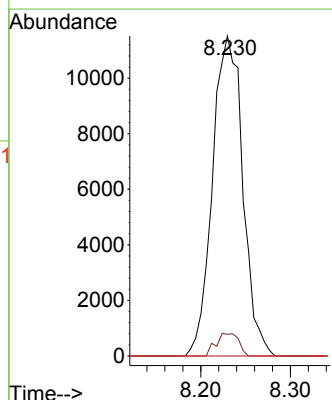
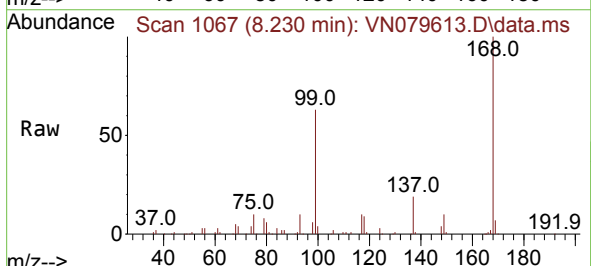
RT: 8.230 min Scan# 1067

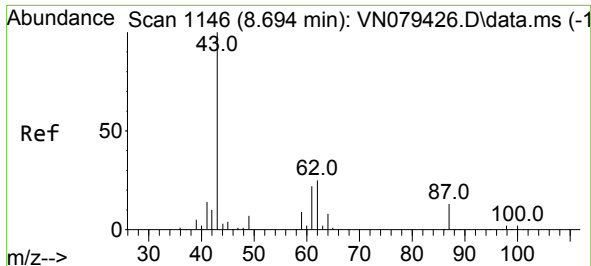
Delta R.T. -0.135 min

Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

Tgt Ion:	117	Resp:	26937
Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.3	115.9#
121	0.0	23.3	34.9#

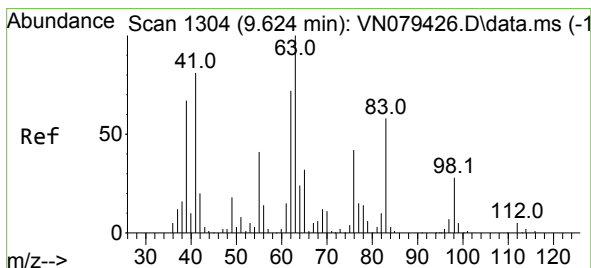
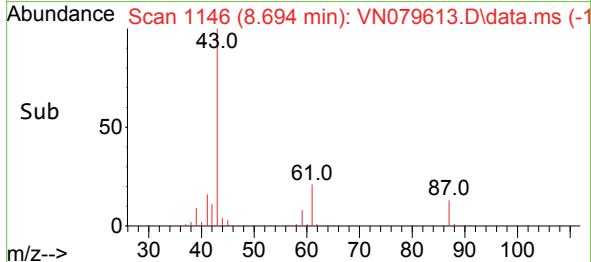
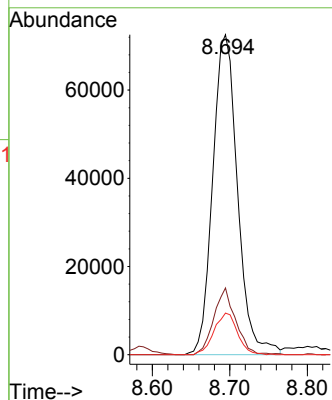
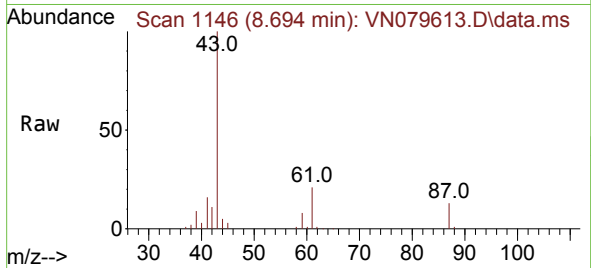




#43
Isopropyl Acetate
Concen: 17.369 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

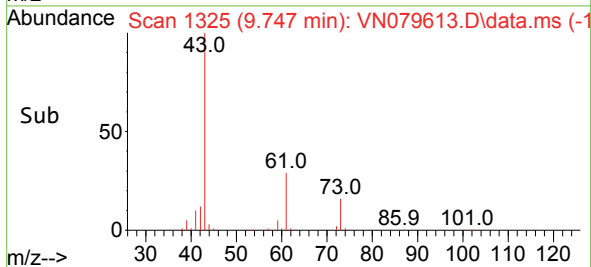
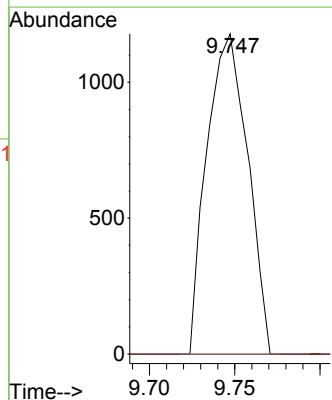
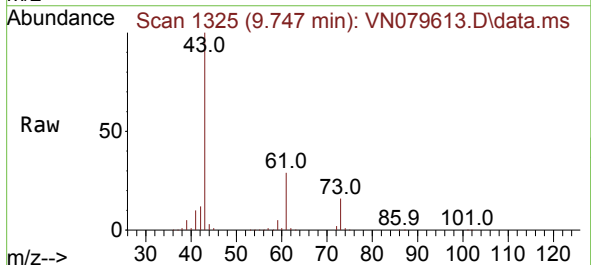
Instrument :
MSVOA_N
ClientSampleId :

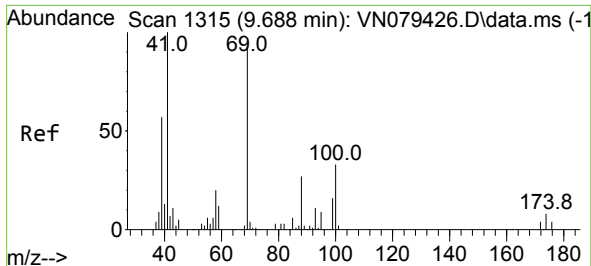
Tgt Ion: 43 Resp: 161501
Ion Ratio Lower Upper
43 100
61 18.4 24.7 37.1#
87 12.3 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.471 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 63 Resp: 1965
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

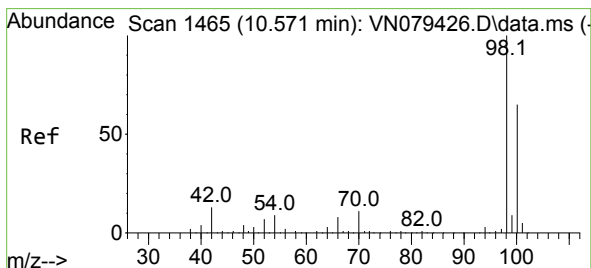
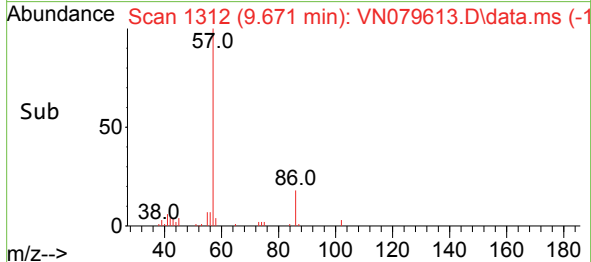
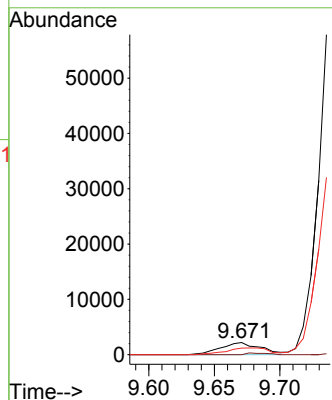
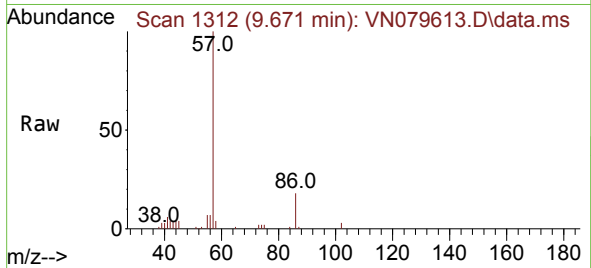




#48
Methyl methacrylate
Concen: 1.171 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

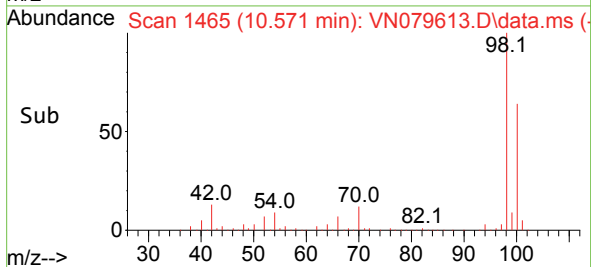
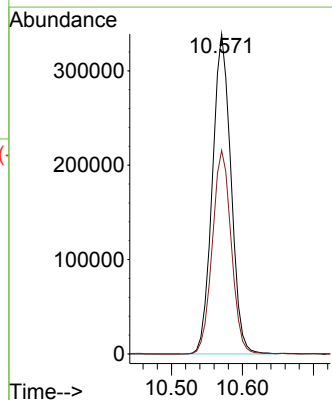
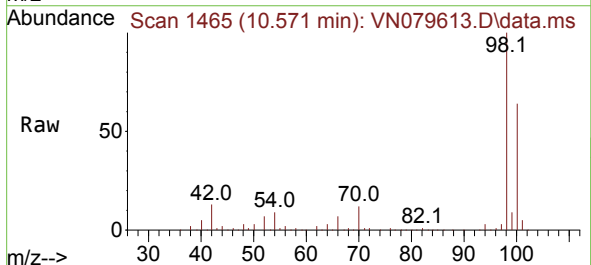
Instrument :
MSVOA_N
ClientSampleId :

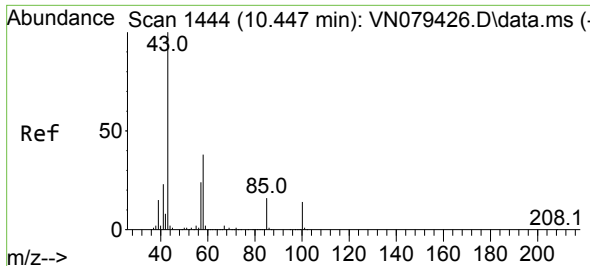
Tgt Ion: 41 Resp: 4665
Ion Ratio Lower Upper
41 100
69 7.2 90.4 135.6#
39 59.2 54.6 81.8



#50
Toluene-d8
Concen: 47.906 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 98 Resp: 616014
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0

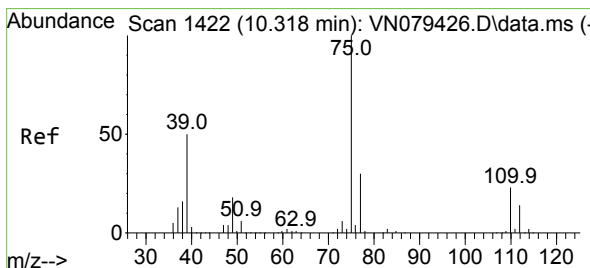
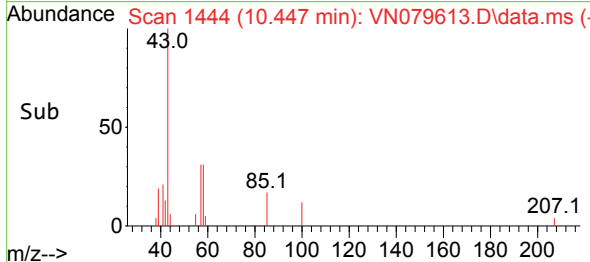
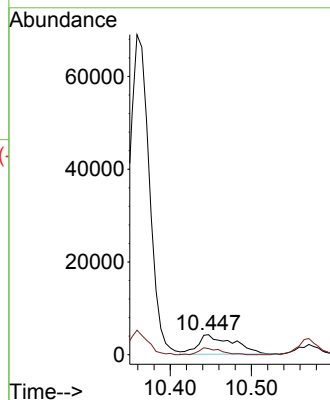
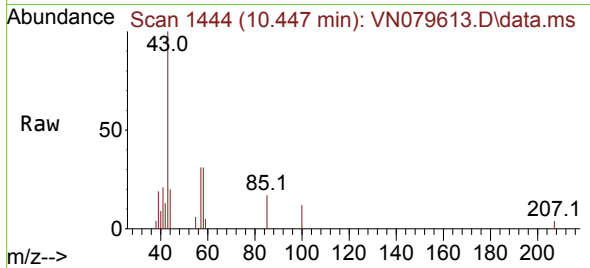




#51
4-Methyl-2-Pentanone
Concen: 2.427 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

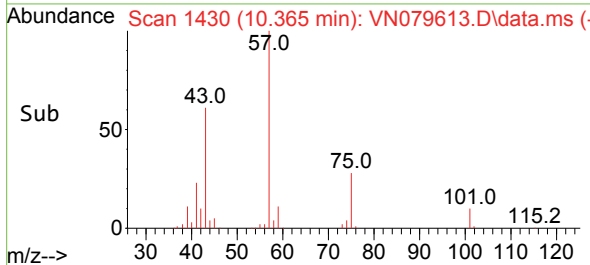
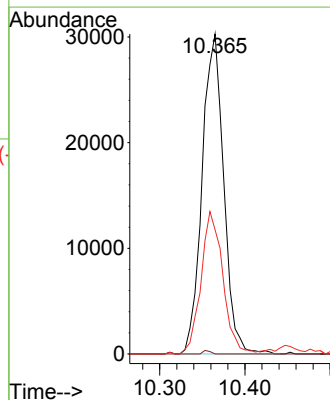
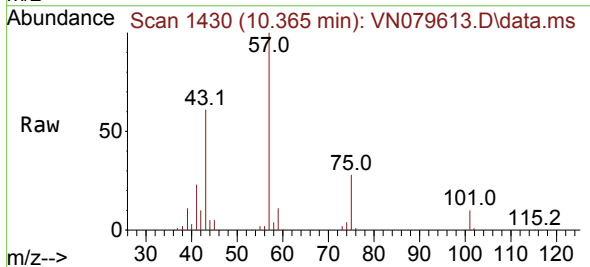
Instrument :
MSVOA_N
ClientSampleId :

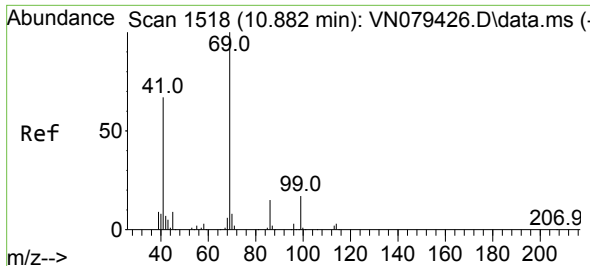
Tgt Ion: 43 Resp: 12739
Ion Ratio Lower Upper
43 100
58 21.6 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 8.695 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

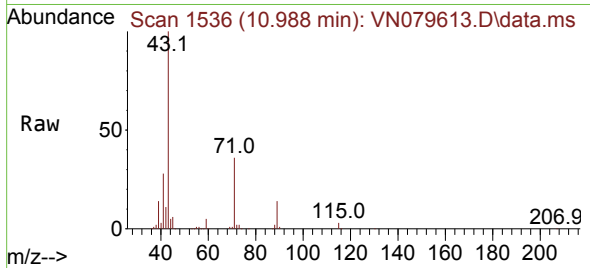
Tgt Ion: 75 Resp: 53336
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 38.8 31.6 47.4



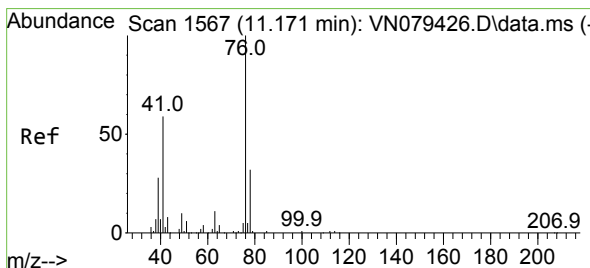
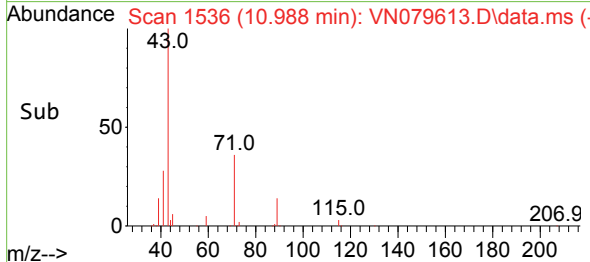
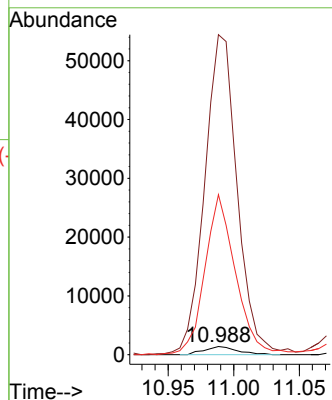


#56
Ethyl methacrylate
Concen: 0.473 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Instrument :
MSVOA_N
ClientSampleId :

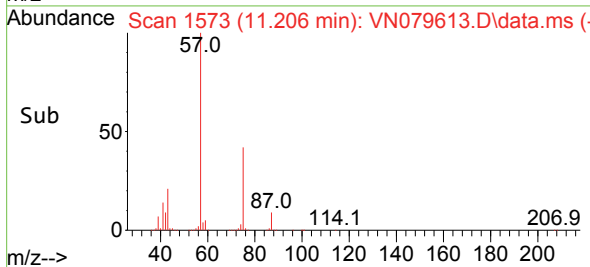
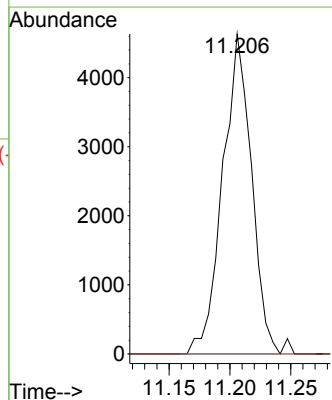
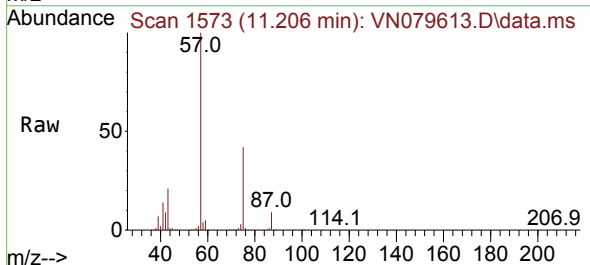


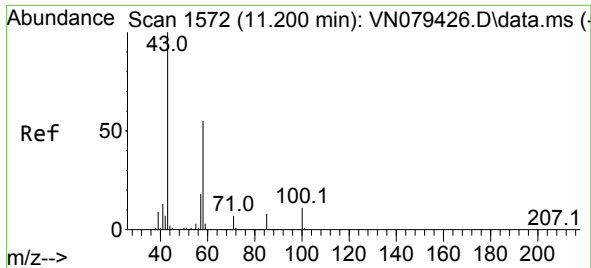
Tgt Ion: 69 Resp: 2435
Ion Ratio Lower Upper
69 100
41 3869.8 39.6 59.4#
39 1828.3 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.180 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 76 Resp: 7626
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

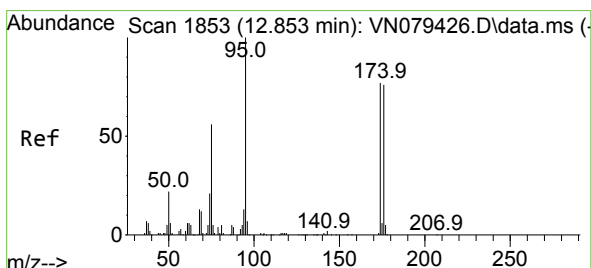
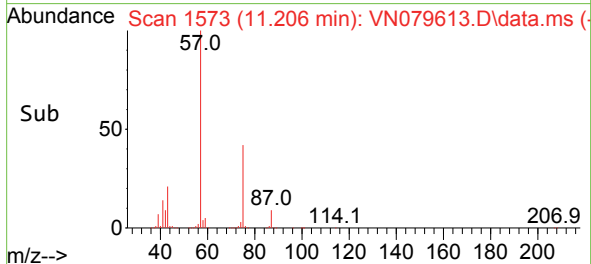
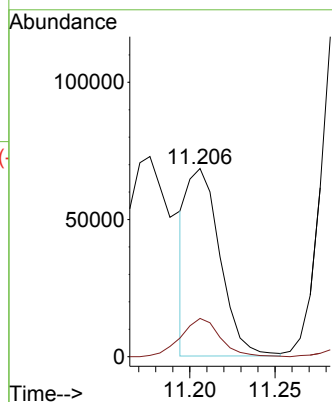
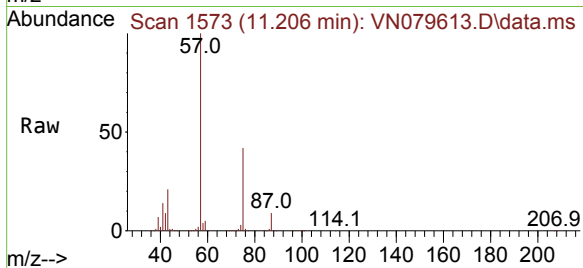




#59
2-Hexanone
Concen: 24.235 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

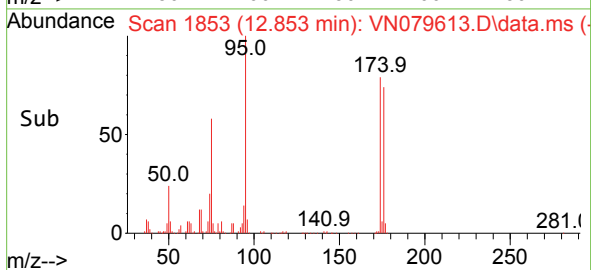
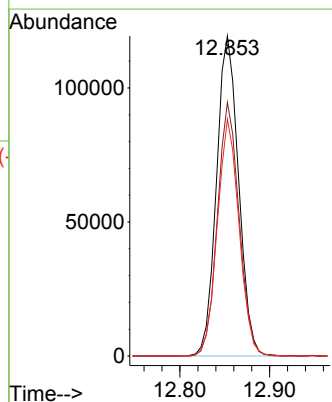
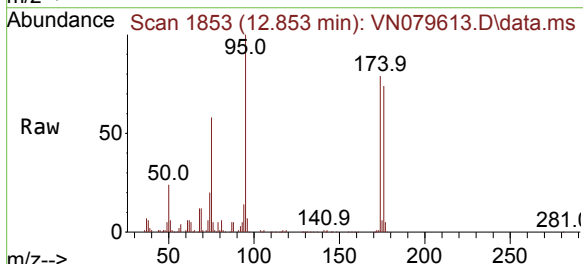
Instrument :
MSVOA_N
ClientSampleId :

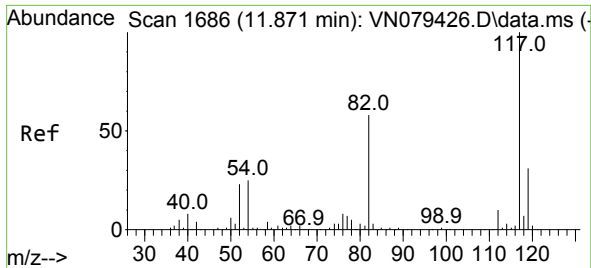
Tgt Ion: 43 Resp: 91793
Ion Ratio Lower Upper
43 100
58 24.4 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 49.387 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion: 95 Resp: 203804
Ion Ratio Lower Upper
95 100
174 78.0 0.0 143.8
176 72.7 0.0 135.8

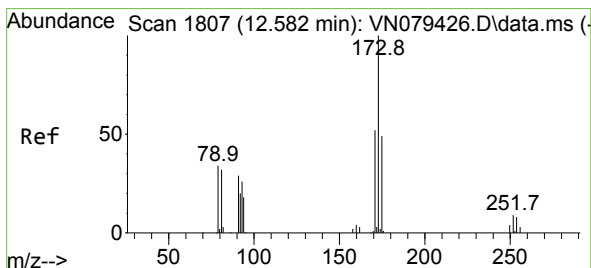
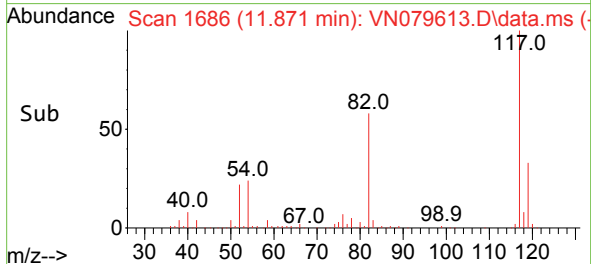
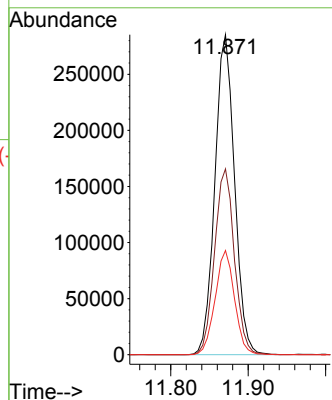
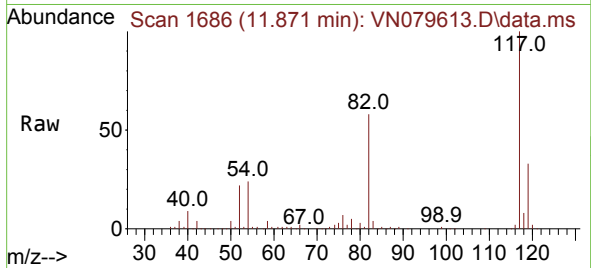




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

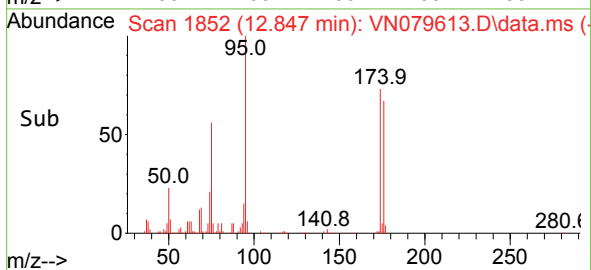
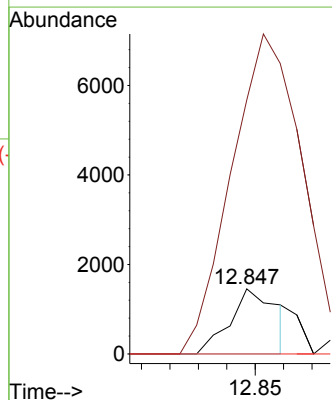
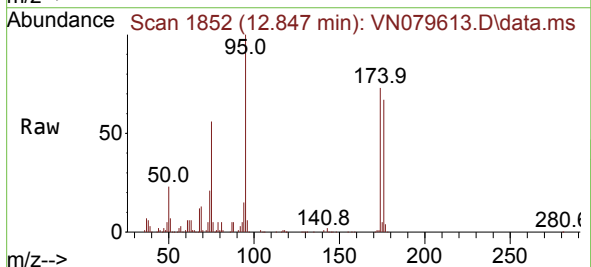
Instrument :
MSVOA_N
ClientSampleId :

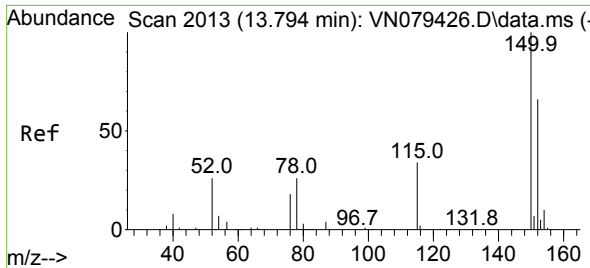
Tgt Ion:117 Resp: 503260
Ion Ratio Lower Upper
117 100
82 58.1 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.557 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

Tgt Ion:173 Resp: 1673
Ion Ratio Lower Upper
173 100
175 548.0 24.3 73.0#
254 0.0 0.0 0.0

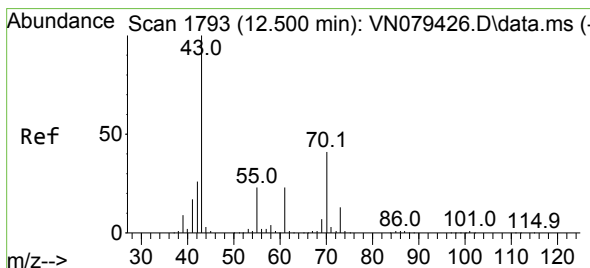
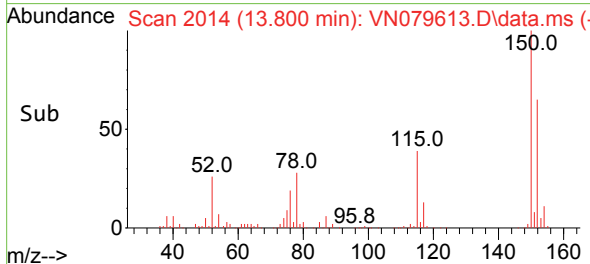
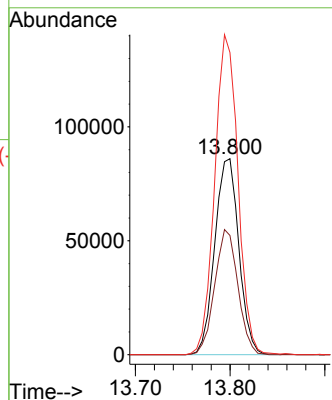
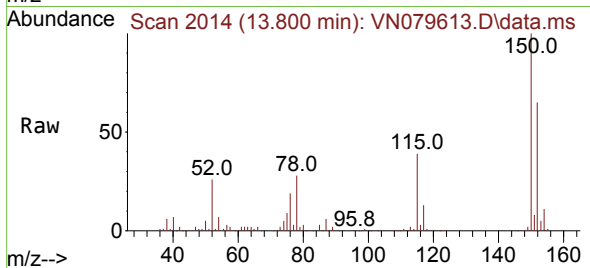




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN079613.D
 Acq: 19 Oct 2023 12:50

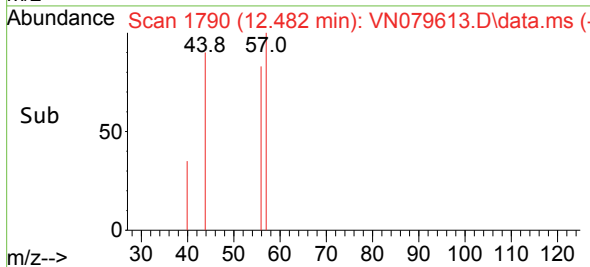
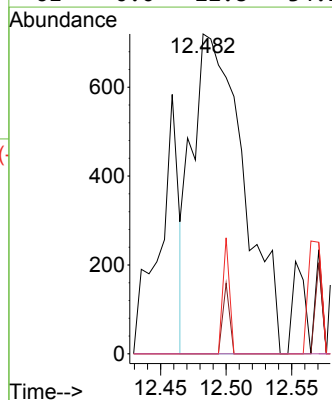
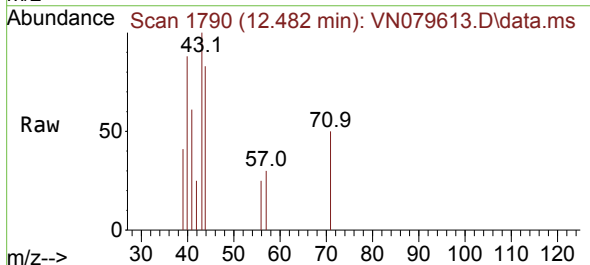
Instrument :
 MSVOA_N
 ClientSampleId :

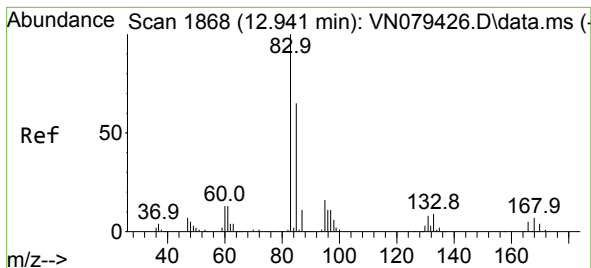
Tgt Ion:152 Resp: 152241
 Ion Ratio Lower Upper
 152 100
 115 61.5 32.3 96.8
 150 157.8 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.339 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.018 min
 Lab File: VN079613.D
 Acq: 19 Oct 2023 12:50

Tgt Ion: 43 Resp: 1968
 Ion Ratio Lower Upper
 43 100
 70 2.8 43.4 65.2#
 55 4.7 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN079613.D

Acq: 19 Oct 2023 12:50

Instrument :

MSVOA_N

ClientSampleId :

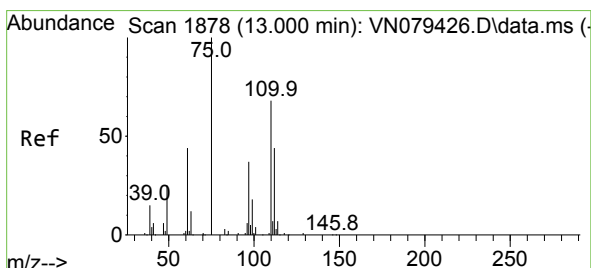
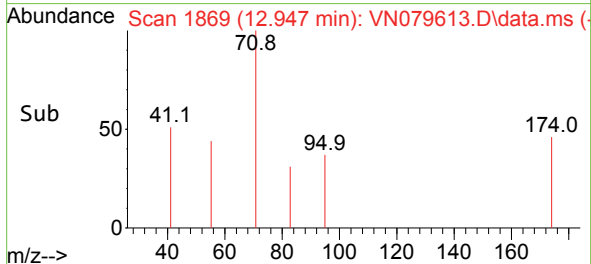
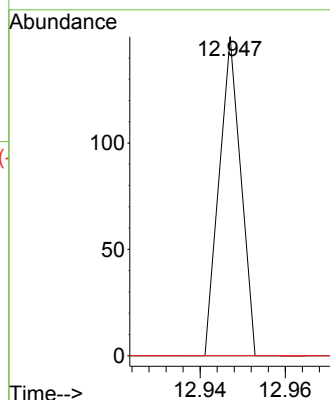
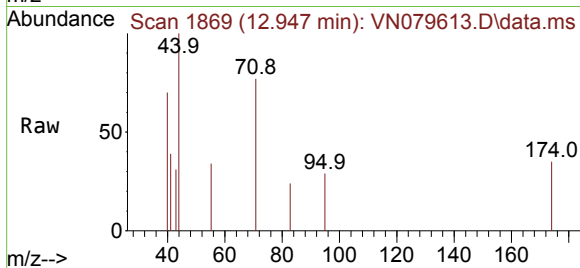
Tgt Ion: 83 Resp: 53

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: 26.365 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079613.D

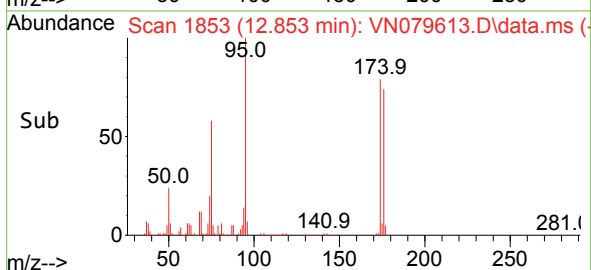
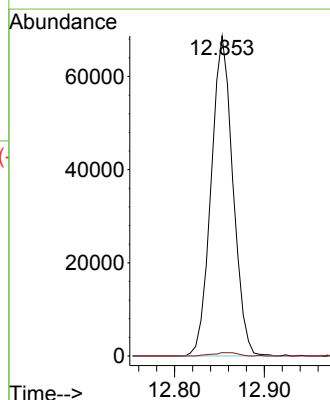
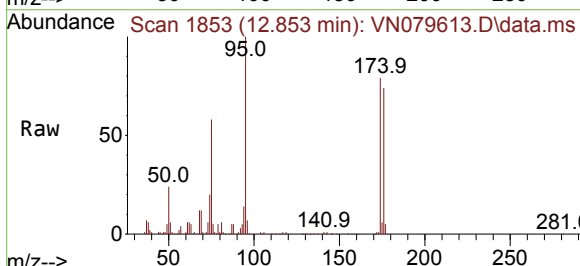
Acq: 19 Oct 2023 12:50

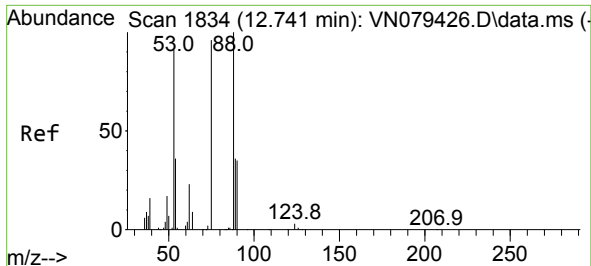
Tgt Ion: 75 Resp: 115729

Ion Ratio Lower Upper

75 100

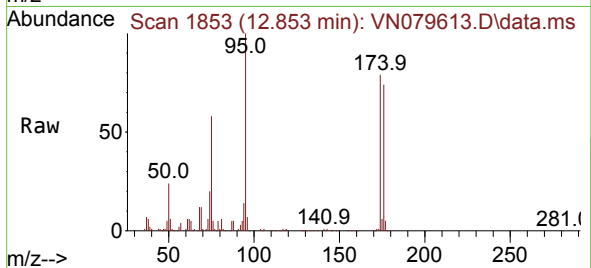
77 1.2 84.5 253.5#



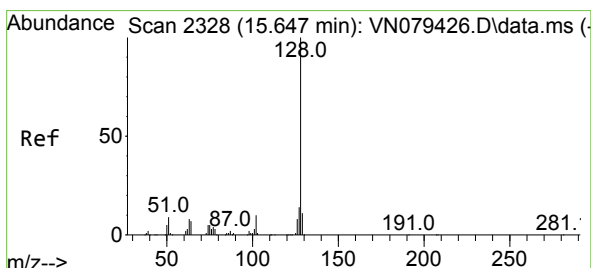
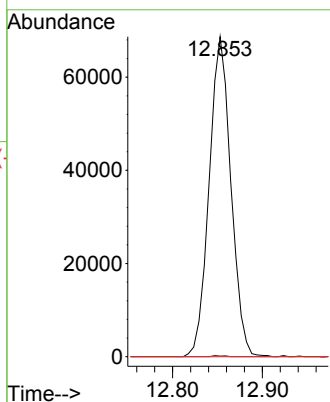
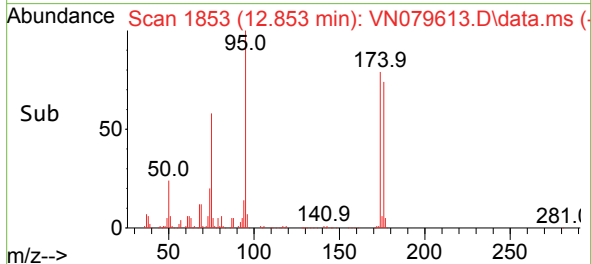


#81
trans-1,4-Dichloro-2-butene
Concen: 76.499 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50

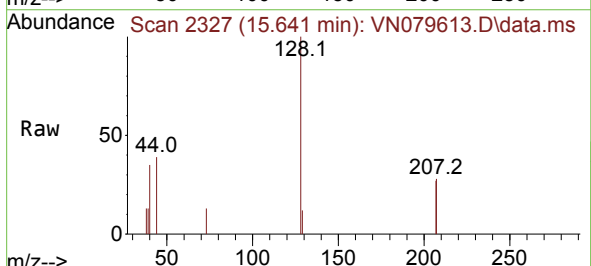
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 115729
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#95
Naphthalene
Concen: 0.381 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN079613.D
Acq: 19 Oct 2023 12:50



Tgt Ion: 128 Resp: 1938
Ion Ratio Lower Upper
128 100
127 4.5 10.0 15.0#
129 7.3 8.7 13.1#

