

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032223\
 Data File : VN077125.D
 Acq On : 23 Mar 2023 04:10
 Operator : JC\MD
 Sample : PB151586ZHE001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 23 09:29:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

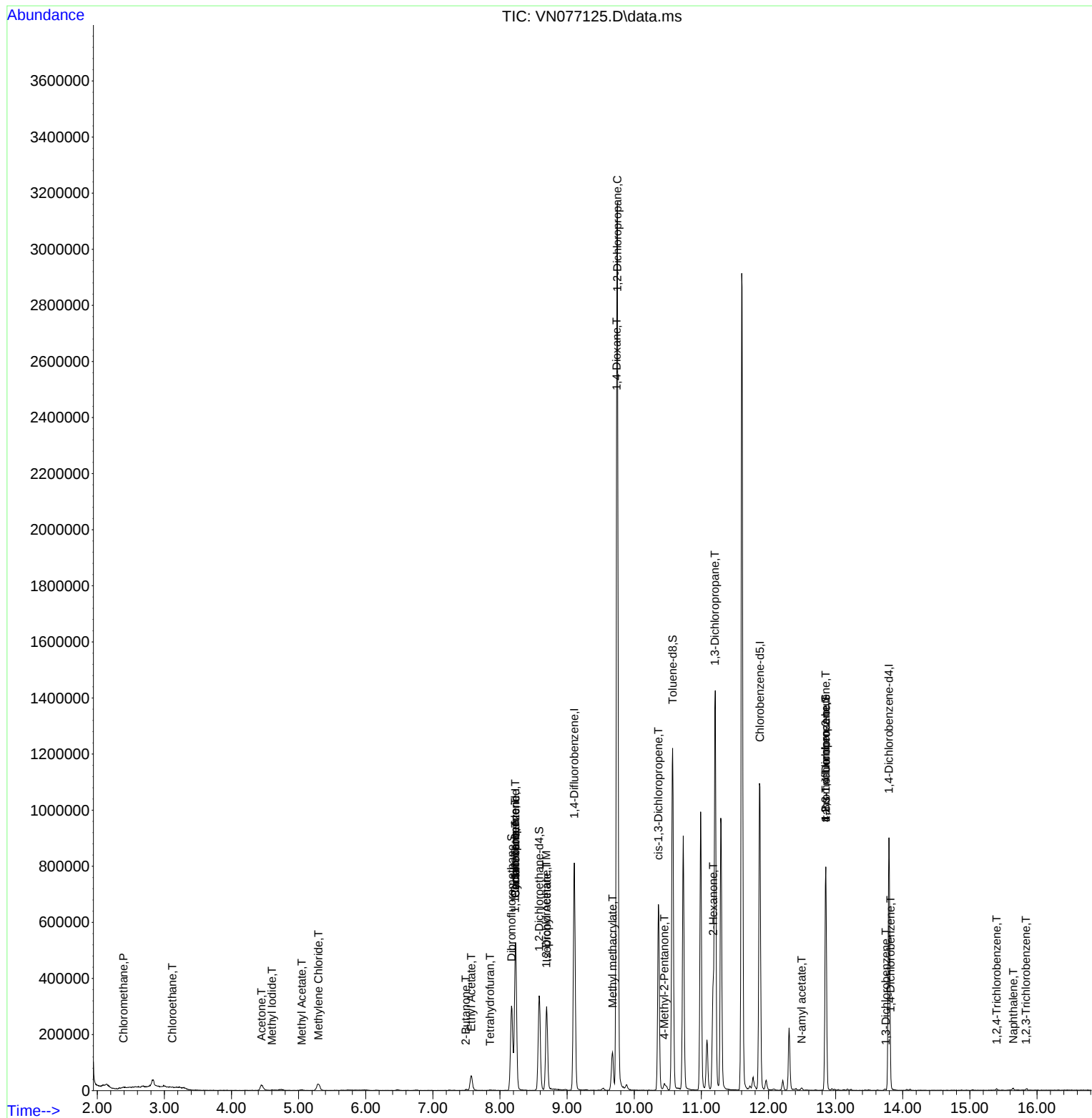
Internal Standards						
1) Pentafluorobenzene	8.231	168	373427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	657332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	611464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	231823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	280711	47.061	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.120%		
35) Dibromofluoromethane	8.172	113	214947	46.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.380%		
50) Toluene-d8	10.572	98	822848	50.040	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.080%		
62) 4-Bromofluorobenzene	12.854	95	256089	44.072	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.140%		
Target Compounds						Qvalue
3) Chloromethane	2.390	50	1026	0.273	ug/l	99
6) Chloroethane	3.119	64	1038	0.404	ug/l #	42
10) Methyl Iodide	4.601	142	2385	0.427	ug/l #	77
16) Acetone	4.449	43	38709	14.564	ug/l	96
18) Methyl Acetate	5.048	43	3663	0.365	ug/l #	71
20) Methylene Chloride	5.296	84	18864	3.270	ug/l	87
25) 2-Butanone	7.489	43	2491	0.641	ug/l #	85
29) Tetrahydrofuran	7.854	42	1163	0.462	ug/l #	70
31) Cyclohexane	8.231	56	10498	1.076	ug/l #	2
36) 1,1-Dichloropropene	8.225	75	35285	4.907	ug/l #	52
37) Ethyl Acetate	7.572	43	81216	10.557	ug/l	97
38) Carbon Tetrachloride	8.231	117	41084	5.866	ug/l #	15
42) 1,2-Dichloroethane	8.689	62	2208	0.280	ug/l #	76
43) Isopropyl Acetate	8.695	43	338018	28.127	ug/l #	90
45) 1,2-Dichloropropane	9.748	63	3876	0.669	ug/l #	43
48) Methyl methacrylate	9.678	41	9301	1.619	ug/l #	43
49) 1,4-Dioxane	9.736	88	553	5.636	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	26428	3.531	ug/l #	72
54) cis-1,3-Dichloropropene	10.360	75	107193	12.654	ug/l #	74
57) 1,3-Dichloropropane	11.201	76	14086	1.499	ug/l #	43
59) 2-Hexanone	11.178	43	300905	55.436	ug/l #	24
74) N-amyl acetate	12.495	43	5049	0.561	ug/l #	57
76) 1,2,3-Trichloropropane	12.854	75	145230	24.219	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	145230	66.666	ug/l #	10
87) 1,3-Dichlorobenzene	13.748	146	1850	0.210	ug/l #	84
88) 1,4-Dichlorobenzene	13.819	146	2747	0.314	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.401	180	2066	0.521	ug/l	71
95) Naphthalene	15.648	128	6442	2.314	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.836	180	1849	0.465	ug/l	77

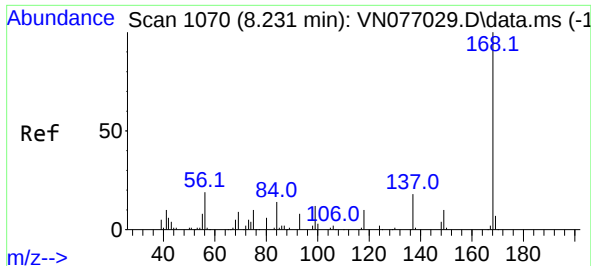
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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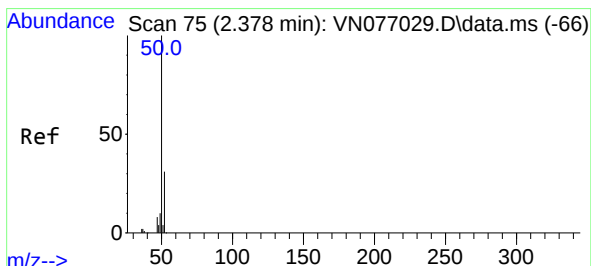
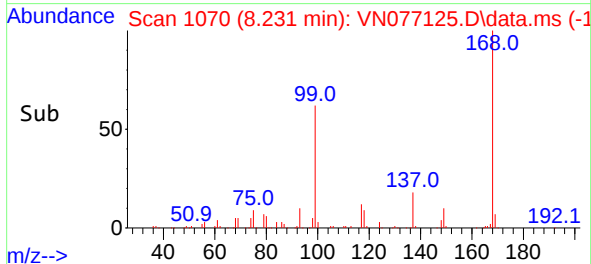
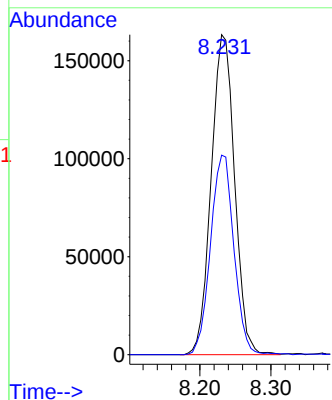
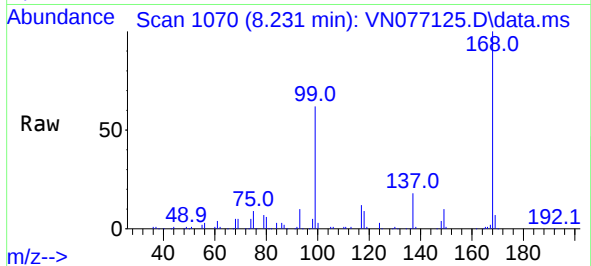




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

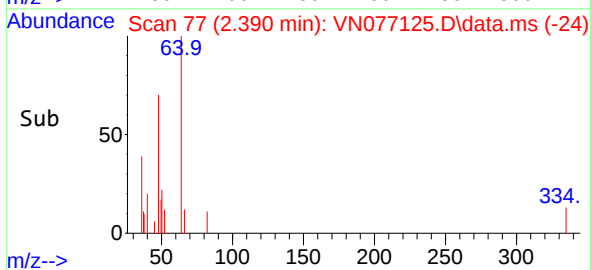
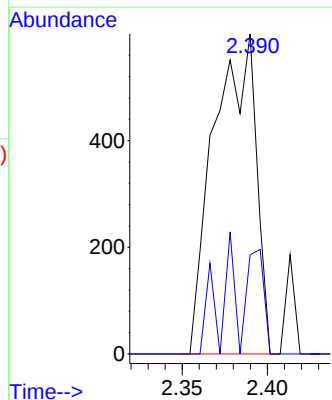
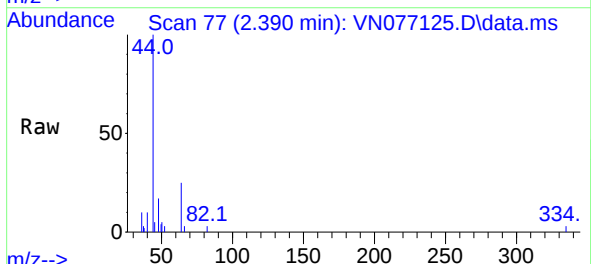
Instrument :
MSVOA_N
ClientSampleId :

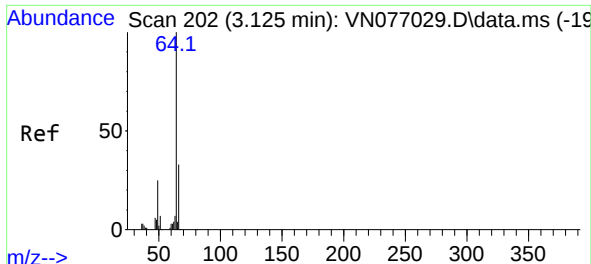
Tgt Ion:168 Resp: 373427
Ion Ratio Lower Upper
168 100
99 62.4 53.9 80.9



#3
Chloromethane
Concen: 0.273 ug/l
RT: 2.390 min Scan# 77
Delta R.T. 0.012 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 50 Resp: 1026
Ion Ratio Lower Upper
50 100
52 31.0 25.1 37.7

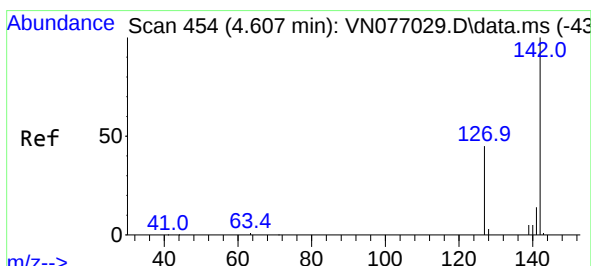
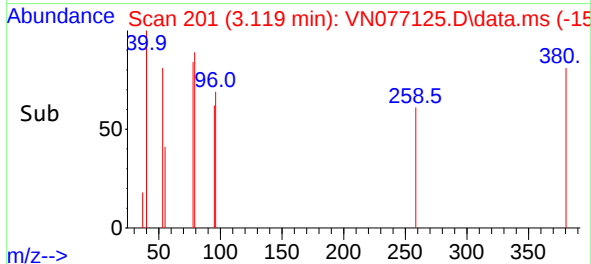
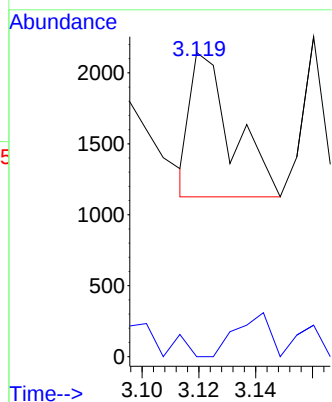
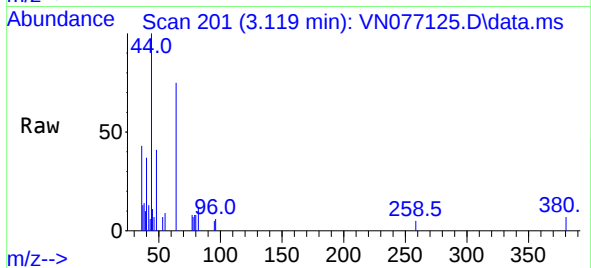




#6
Chloroethane
Concen: 0.404 ug/l
RT: 3.119 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

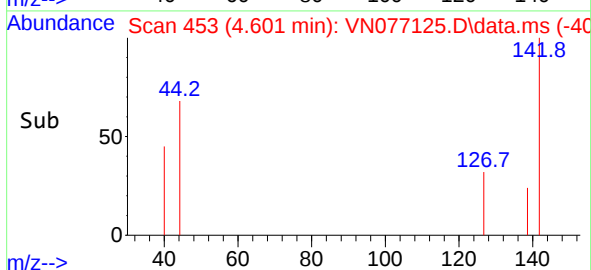
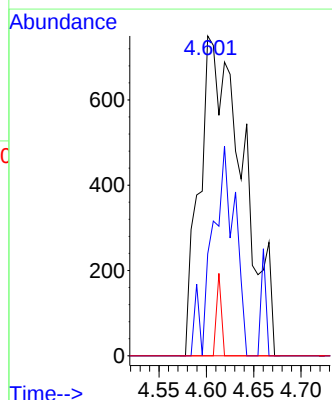
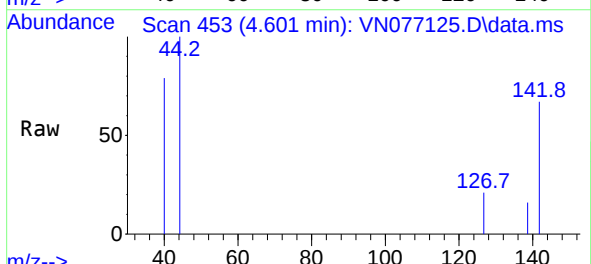
Instrument :
MSVOA_N
ClientSampleId :

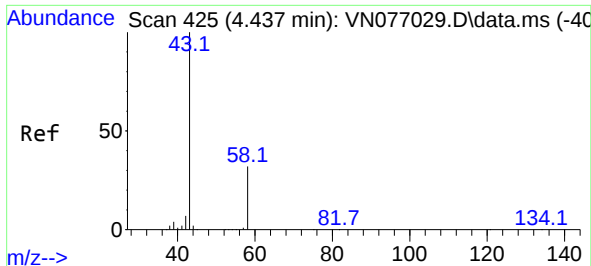
Tgt Ion: 64 Resp: 1038
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#



#10
Methyl Iodide
Concen: 0.427 ug/l
RT: 4.601 min Scan# 453
Delta R.T. -0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion:142 Resp: 2385
Ion Ratio Lower Upper
142 100
127 31.9 36.1 54.1#
141 0.0 10.8 16.2#

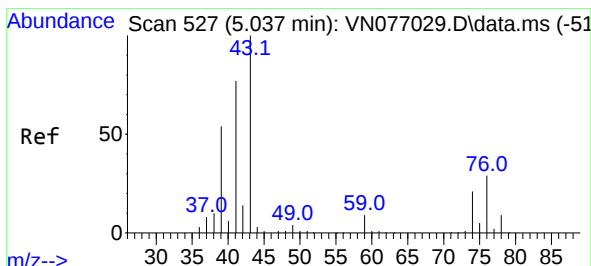
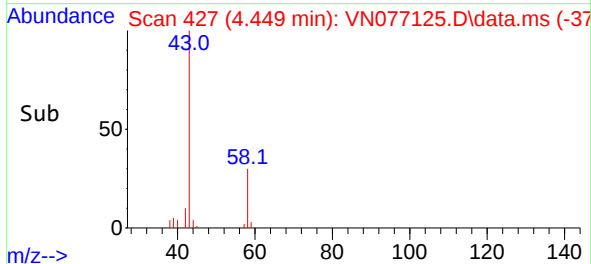
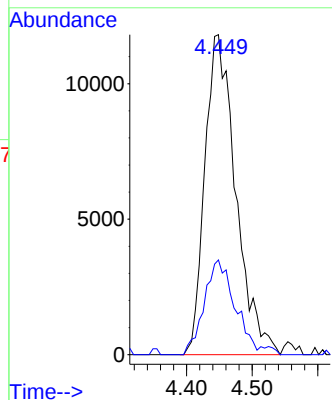
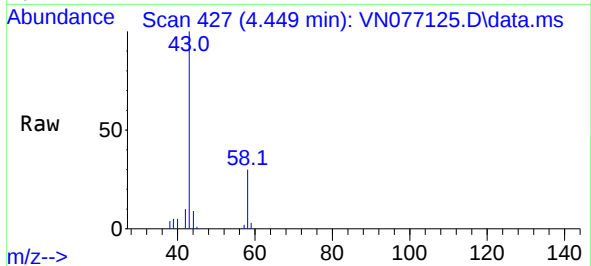




#16
Acetone
Concen: 14.564 ug/l
RT: 4.449 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

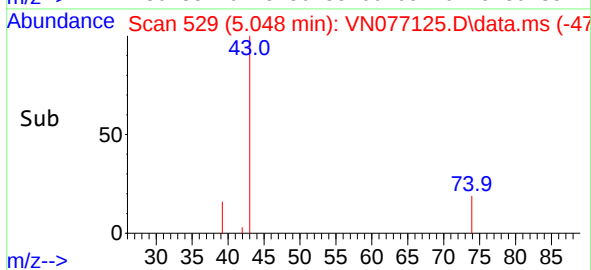
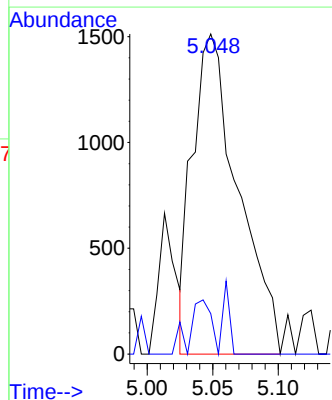
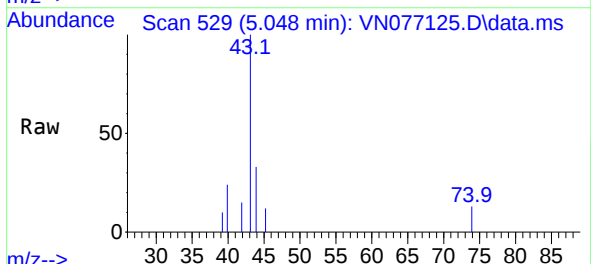
Instrument :
MSVOA_N
ClientSampleId :

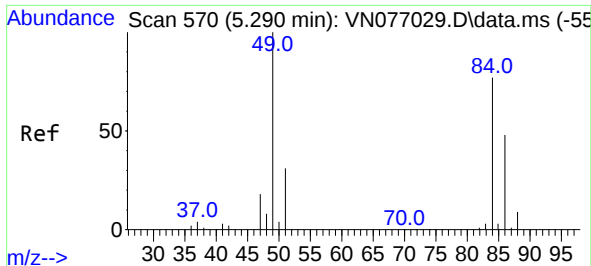
Tgt Ion: 43 Resp: 38709
Ion Ratio Lower Upper
43 100
58 29.6 25.4 38.0



#18
Methyl Acetate
Concen: 0.365 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.011 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

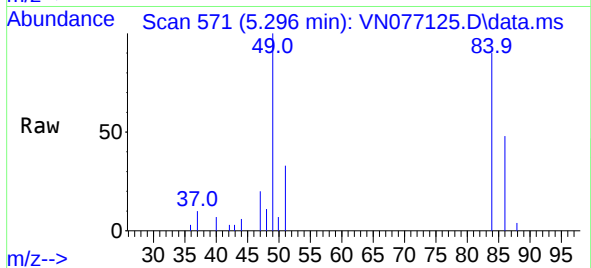
Tgt Ion: 43 Resp: 3663
Ion Ratio Lower Upper
43 100
74 8.1 17.7 26.5#





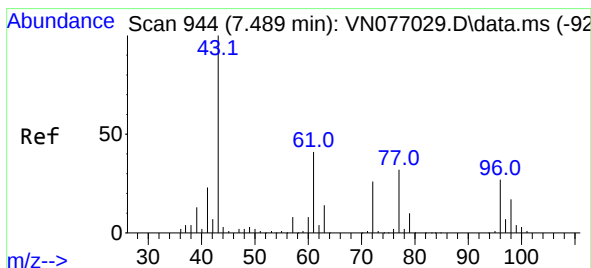
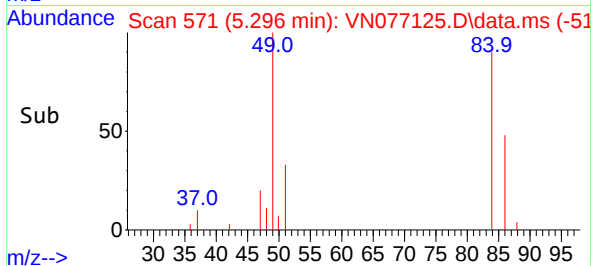
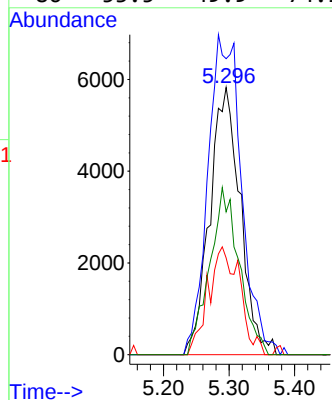
#20
Methylene Chloride
Concen: 3.270 ug/l
RT: 5.296 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 18864

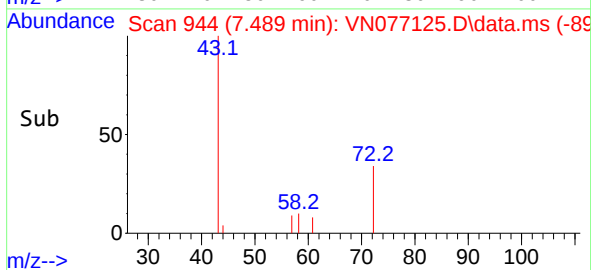
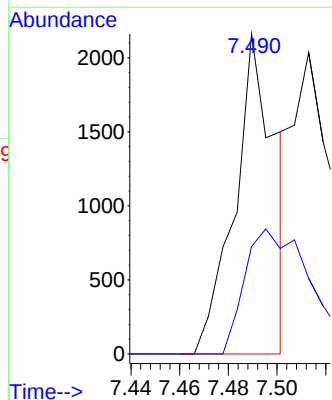
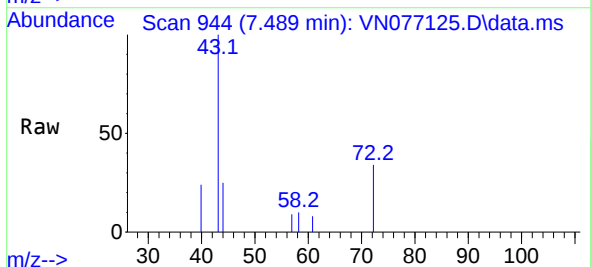
Ion	Ratio	Lower	Upper
84	100		
49	110.8	103.8	155.6
51	36.2	32.3	48.5
86	53.5	49.9	74.9

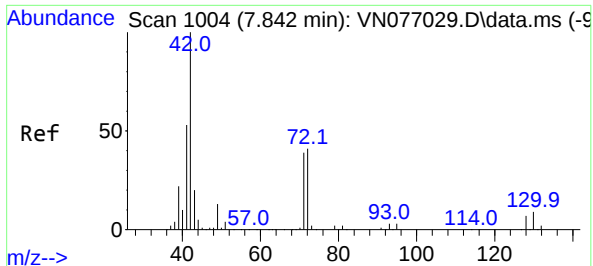


#25
2-Butanone
Concen: 0.641 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 43 Resp: 2491

Ion	Ratio	Lower	Upper
43	100		
72	33.5	20.7	31.1#

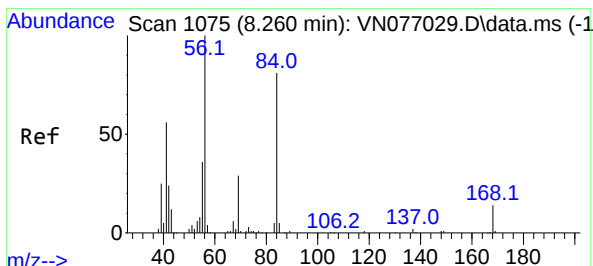
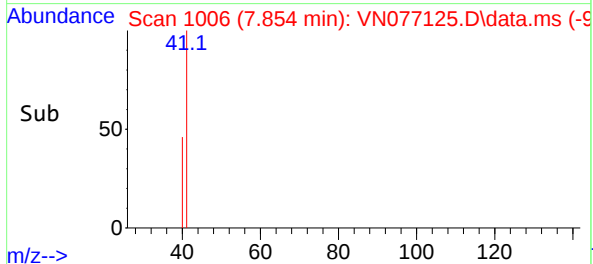
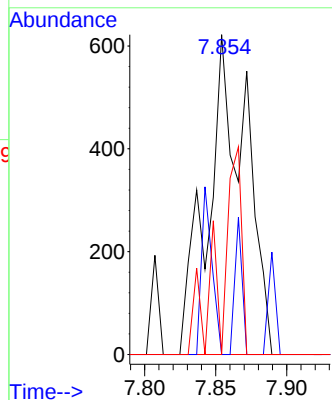
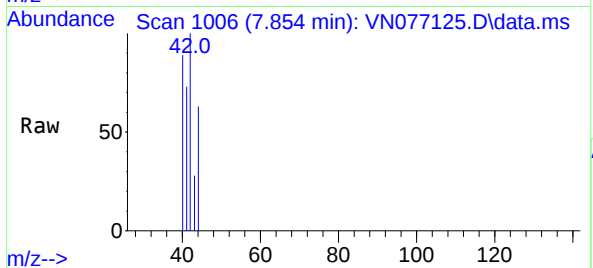




#29
Tetrahydrofuran
Concen: 0.462 ug/l
RT: 7.854 min Scan# 10
Delta R.T. 0.012 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

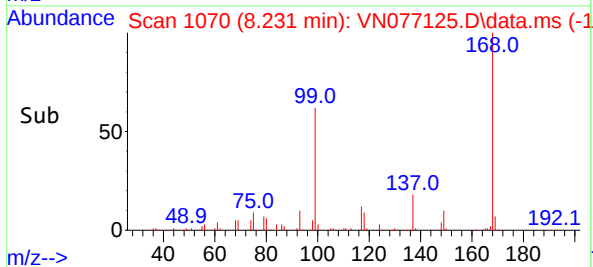
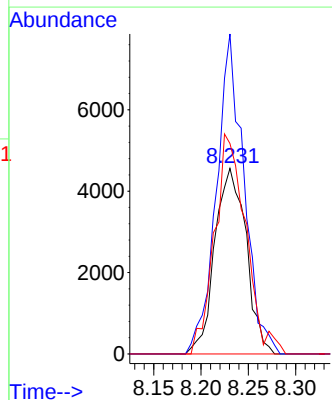
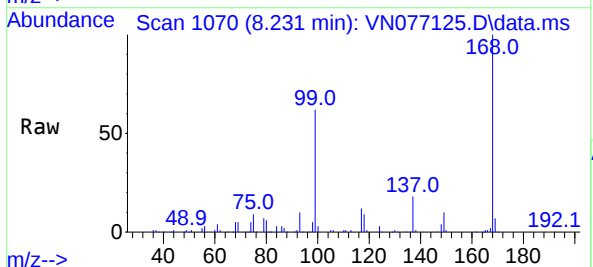
Instrument :
MSVOA_N
ClientSampleId :

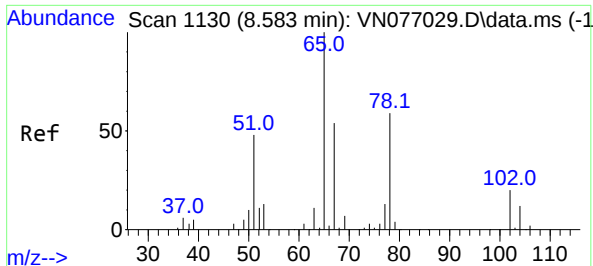
Tgt Ion: 42 Resp: 1163
Ion Ratio Lower Upper
42 100
72 8.1 33.2 49.8#
71 35.7 31.0 46.4



#31
Cyclohexane
Concen: 1.076 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 56 Resp: 10498
Ion Ratio Lower Upper
56 100
69 172.4 22.8 34.2#
84 113.4 64.7 97.1#

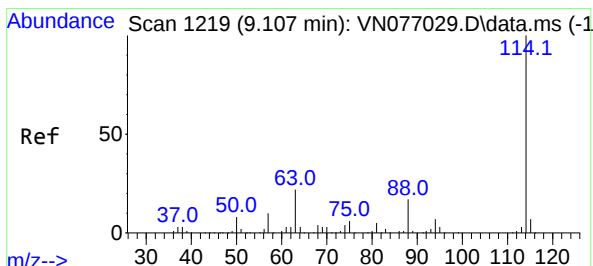
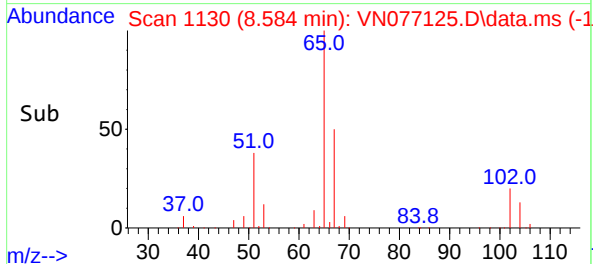
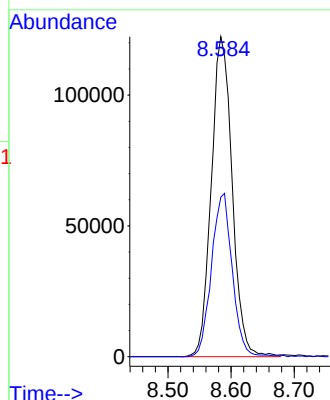
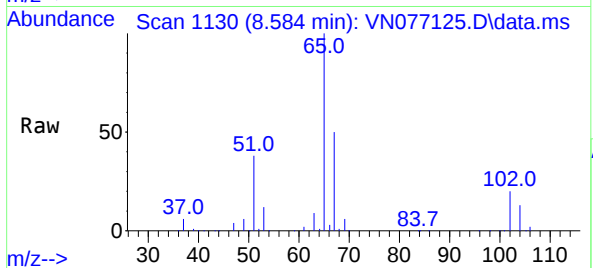




#33
1,2-Dichloroethane-d4
Concen: 47.061 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

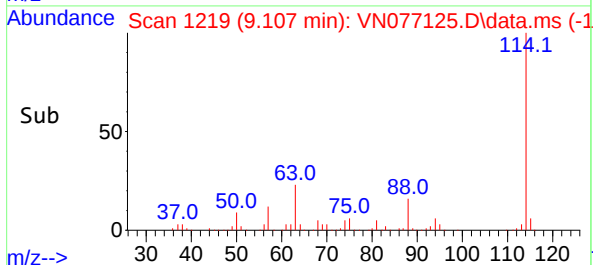
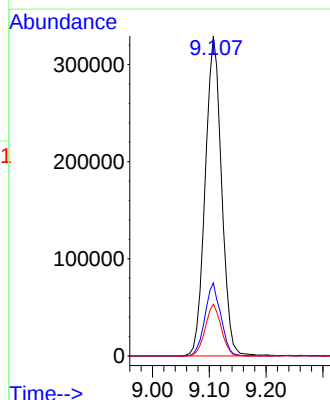
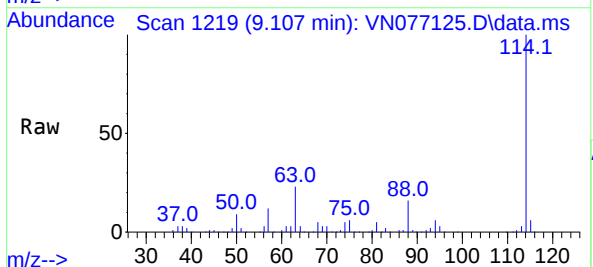
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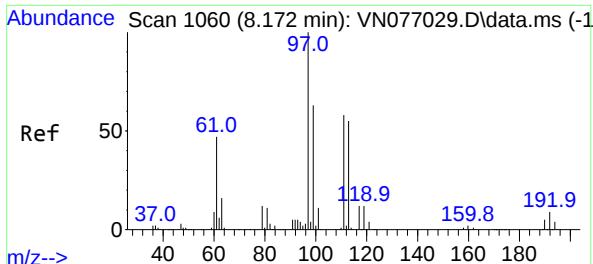
Tgt Ion: 65 Resp: 280711
Ion Ratio Lower Upper
65 100
67 50.9 0.0 105.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 114 Resp: 657332
Ion Ratio Lower Upper
114 100
63 22.8 0.0 44.6
88 16.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 46.693 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Instrument :

MSVOA_N

ClientSampleId :

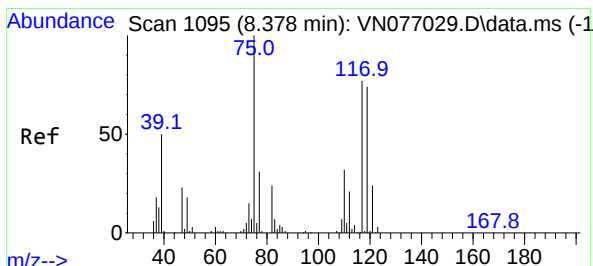
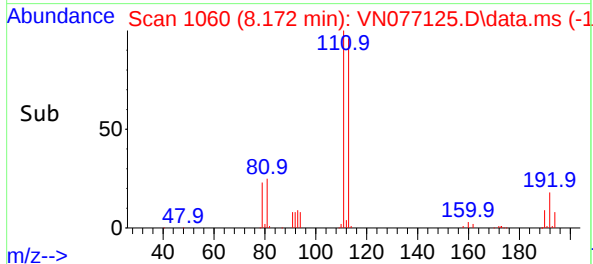
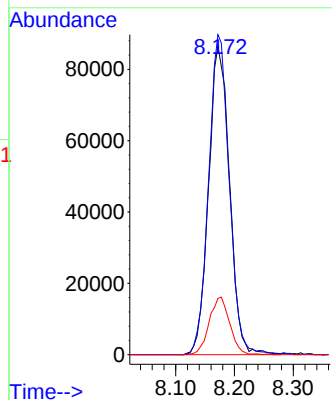
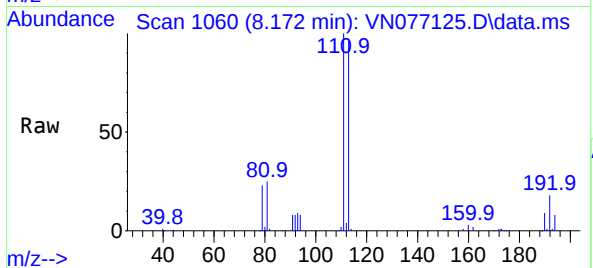
Tgt Ion:113 Resp: 214947

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.2

192 18.2 13.0 19.6



#36

1,1-Dichloropropene

Concen: 4.907 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

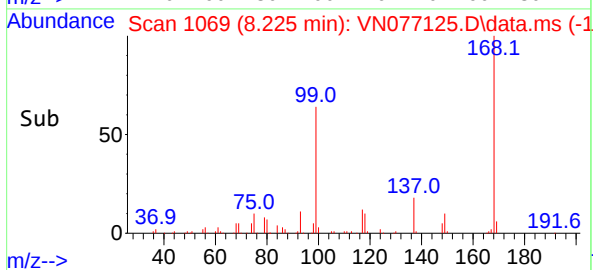
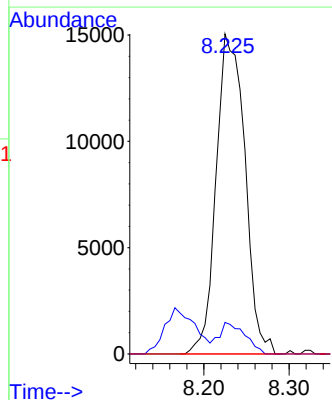
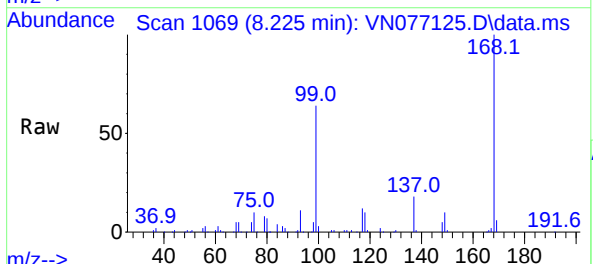
Tgt Ion: 75 Resp: 35285

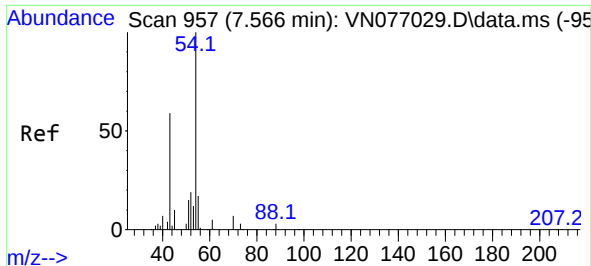
Ion Ratio Lower Upper

75 100

110 9.0 15.9 47.7#

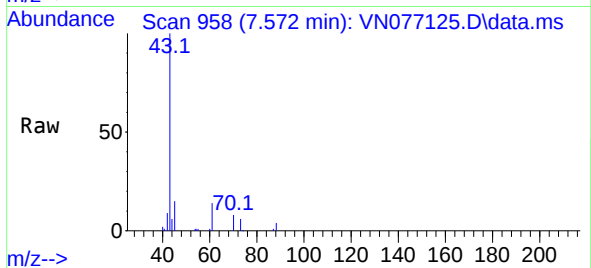
77 0.0 24.3 36.5#



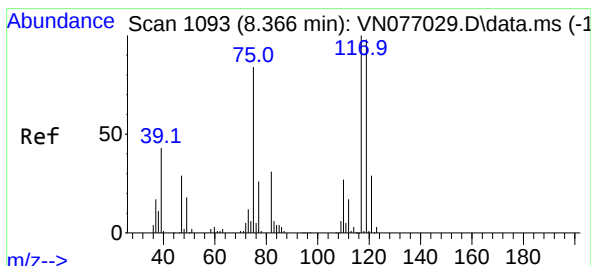
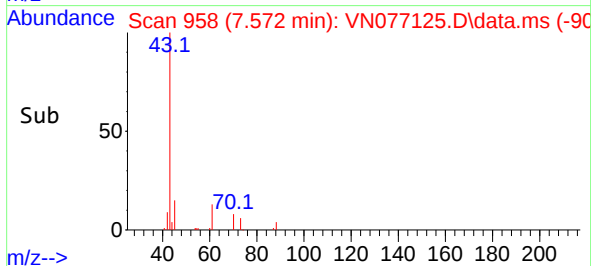
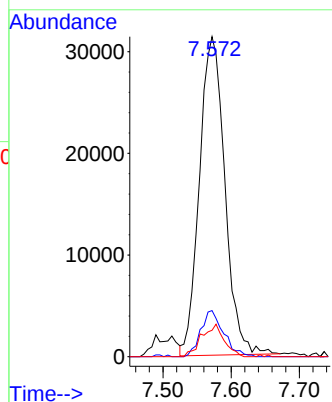


#37
Ethyl Acetate
Concen: 10.557 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Instrument :
MSVOA_N
ClientSampleId :

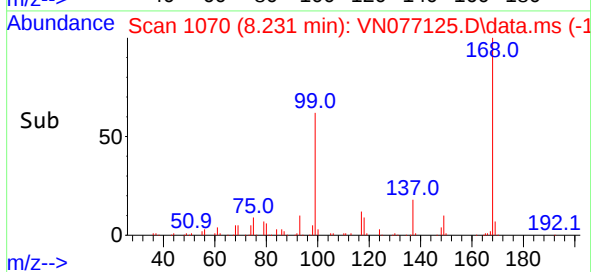
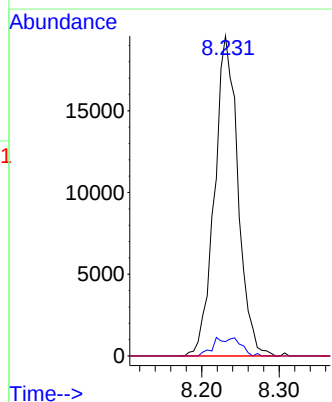
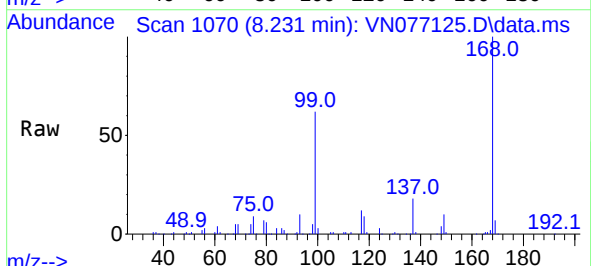


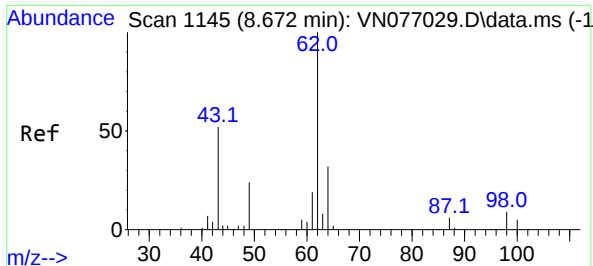
Tgt Ion: 43 Resp: 81216
Ion Ratio Lower Upper
43 100
61 13.1 11.0 16.6
70 9.0 8.4 12.6



#38
Carbon Tetrachloride
Concen: 5.866 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 117 Resp: 41084
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 23.2 34.8#

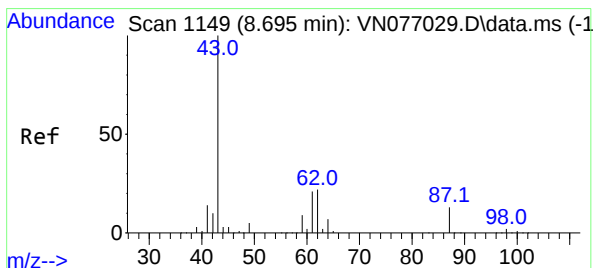
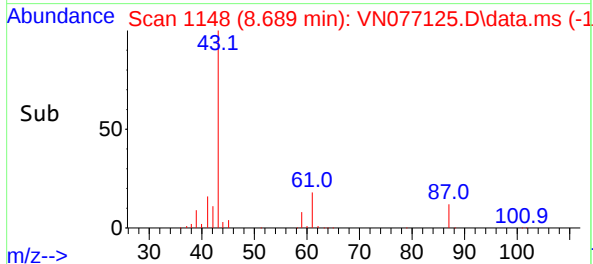
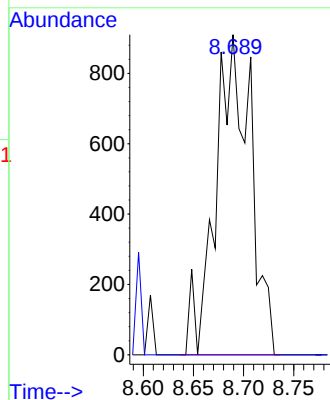
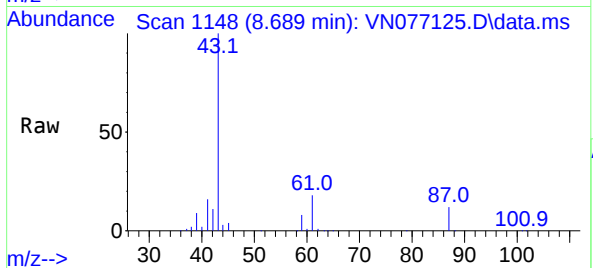




#42
1,2-Dichloroethane
Concen: 0.280 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. 0.018 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

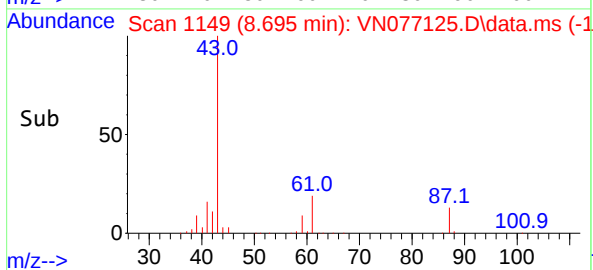
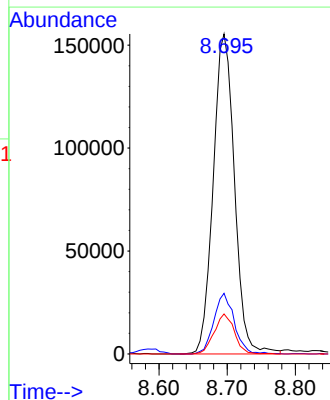
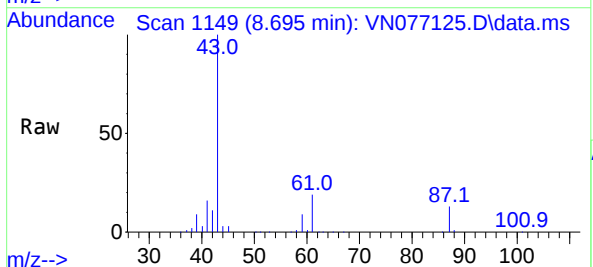
Instrument :
MSVOA_N
ClientSampleId :

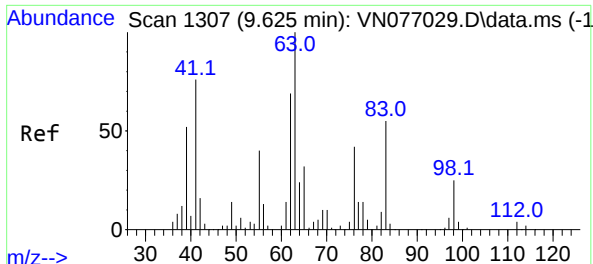
Tgt Ion: 62 Resp: 2208
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.4



#43
Isopropyl Acetate
Concen: 28.127 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 43 Resp: 338018
Ion Ratio Lower Upper
43 100
61 18.2 20.6 30.8#
87 11.8 10.0 15.0





#45

1,2-Dichloropropane

Concen: 0.669 ug/l

RT: 9.748 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Instrument :

MSVOA_N

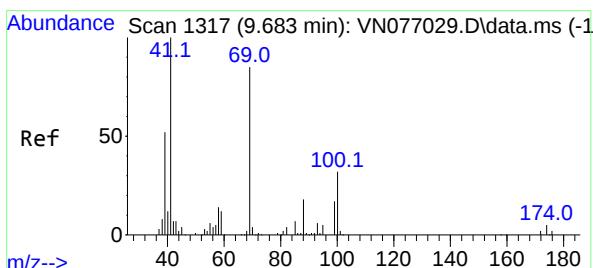
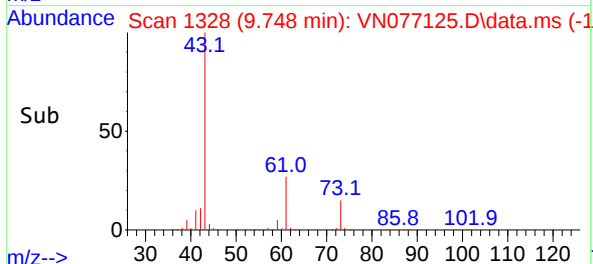
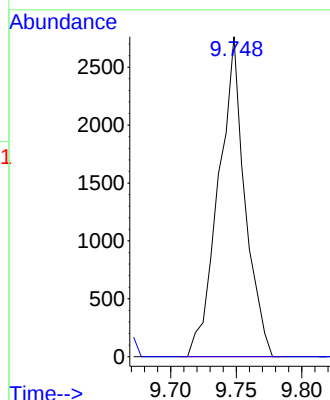
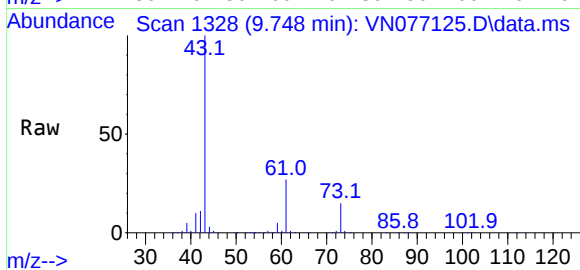
ClientSampleId :

Tgt Ion: 63 Resp: 3876

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 1.619 ug/l

RT: 9.678 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

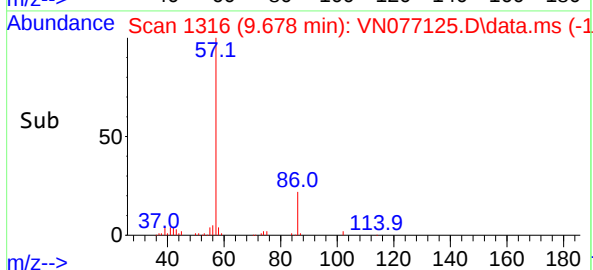
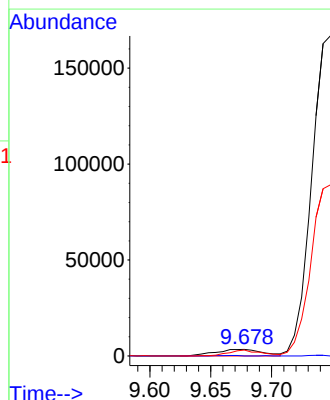
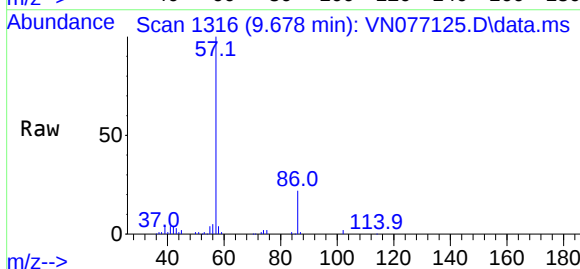
Tgt Ion: 41 Resp: 9301

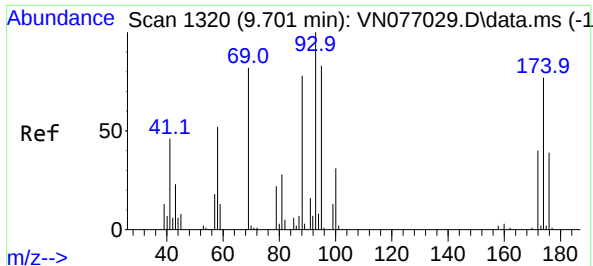
Ion Ratio Lower Upper

41 100

69 3.1 64.3 96.5#

39 62.7 43.2 64.8

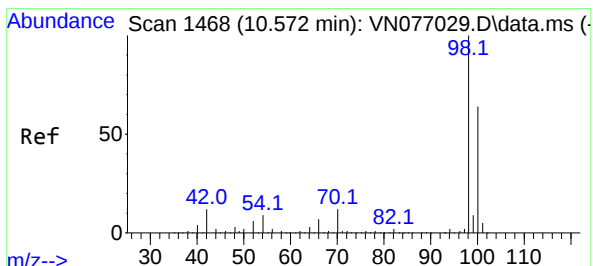
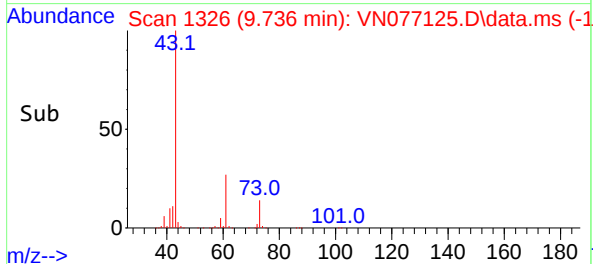
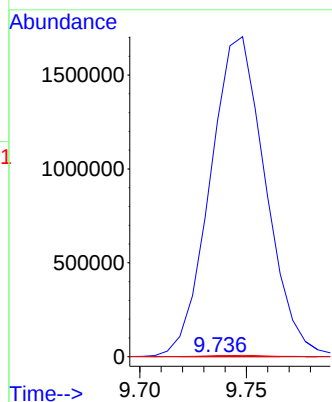
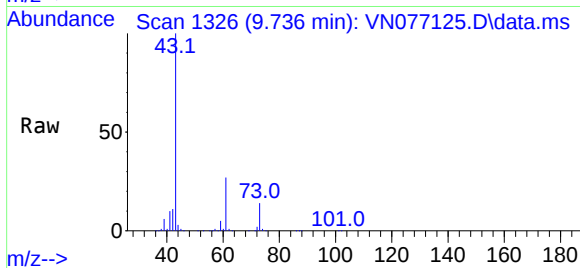




#49
1,4-Dioxane
Concen: 5.636 ug/l
RT: 9.736 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

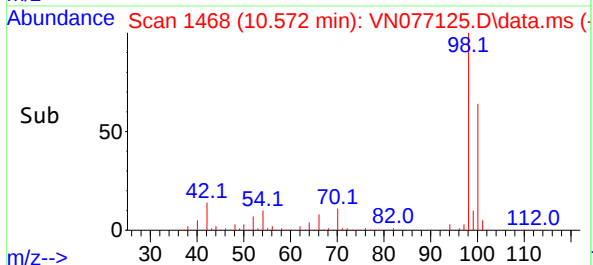
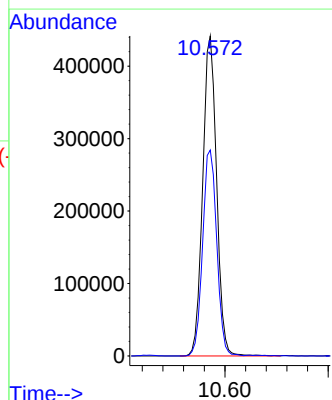
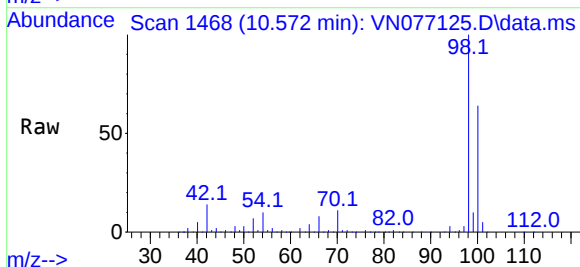
Instrument :
MSVOA_N
ClientSampleId :

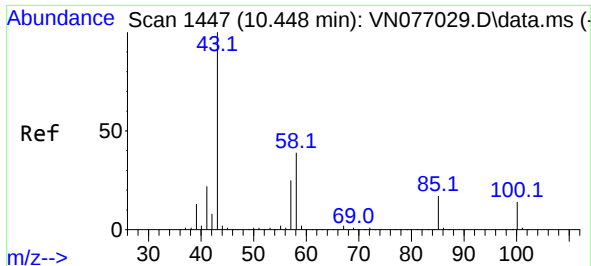
Tgt Ion: 88 Resp: 553
Ion Ratio Lower Upper
88 100
43 562948.6 22.2 33.2#
58 2618.3 60.8 91.2#



#50
Toluene-d8
Concen: 50.040 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 98 Resp: 822848
Ion Ratio Lower Upper
98 100
100 65.4 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 3.531 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. 0.000 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Instrument :

MSVOA_N

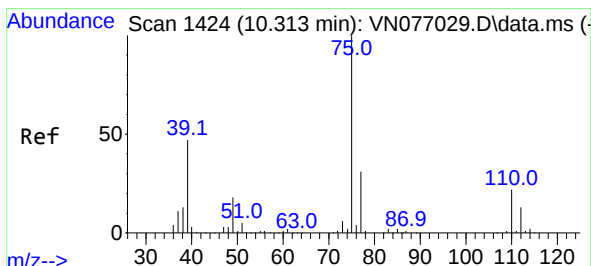
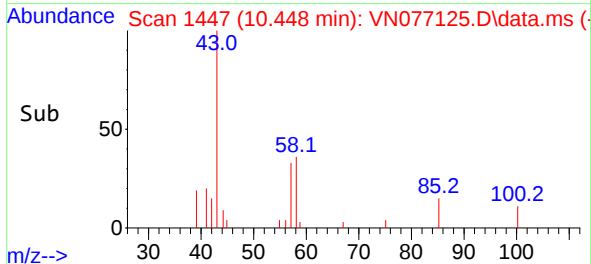
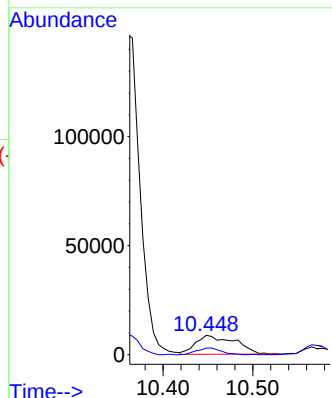
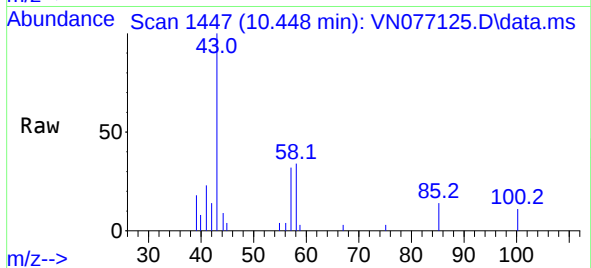
ClientSampleId :

Tgt Ion: 43 Resp: 26428

Ion Ratio Lower Upper

43 100

58 21.9 31.1 46.7#



#54

cis-1,3-Dichloropropene

Concen: 12.654 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

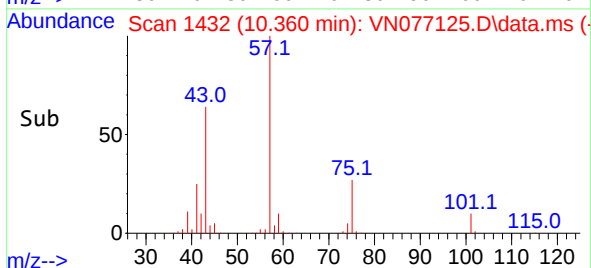
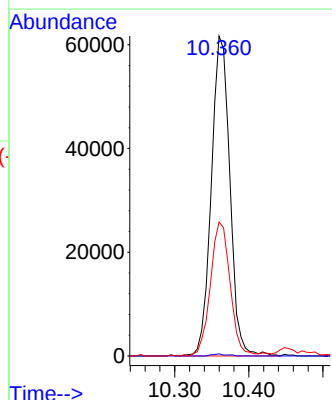
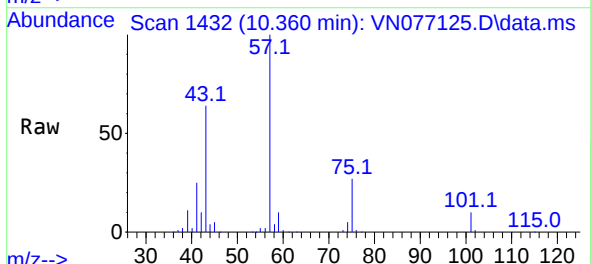
Tgt Ion: 75 Resp: 107193

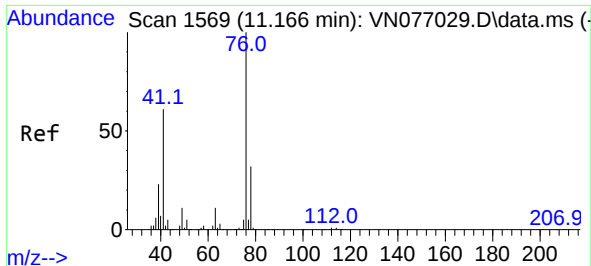
Ion Ratio Lower Upper

75 100

77 0.7 24.5 36.7#

39 41.9 37.8 56.6





#57

1,3-Dichloropropane

Concen: 1.499 ug/l

RT: 11.201 min Scan# 1575

Delta R.T. 0.035 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Instrument :

MSVOA_N

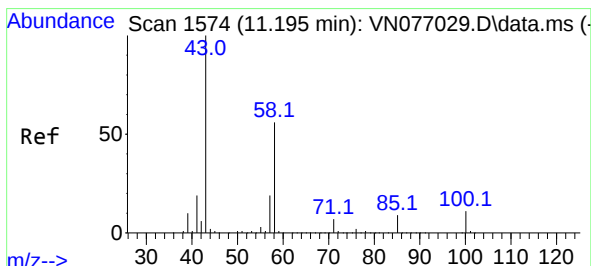
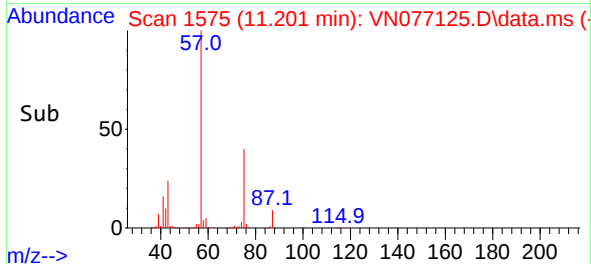
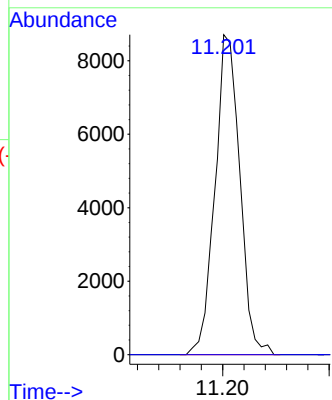
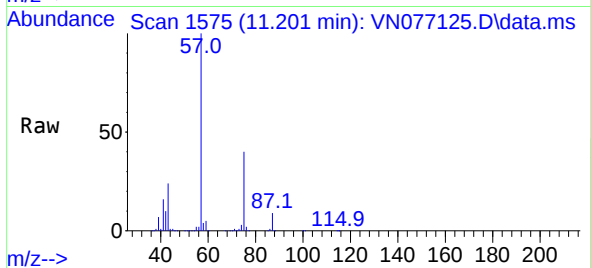
ClientSampleId :

Tgt Ion: 76 Resp: 14086

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 55.436 ug/l

RT: 11.178 min Scan# 1571

Delta R.T. -0.018 min

Lab File: VN077125.D

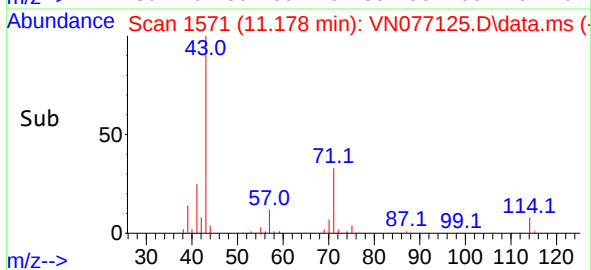
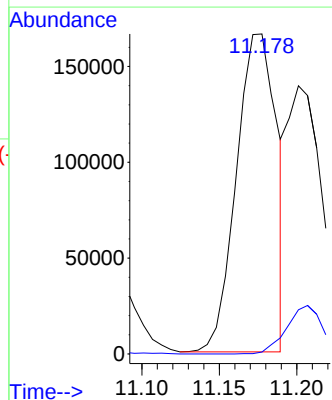
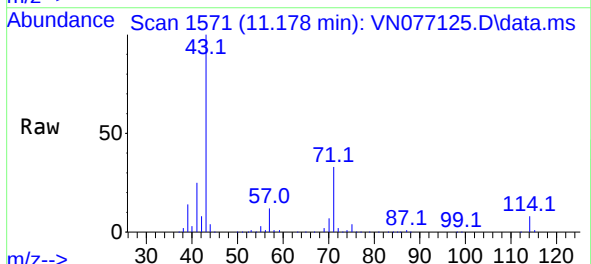
Acq: 23 Mar 2023 04:10

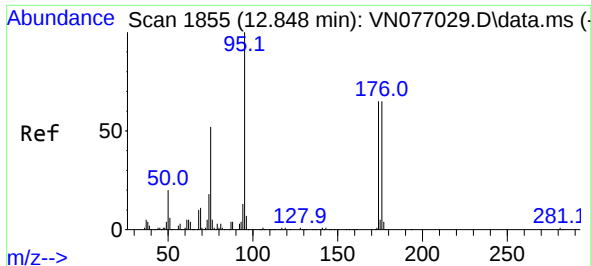
Tgt Ion: 43 Resp: 300905

Ion Ratio Lower Upper

43 100

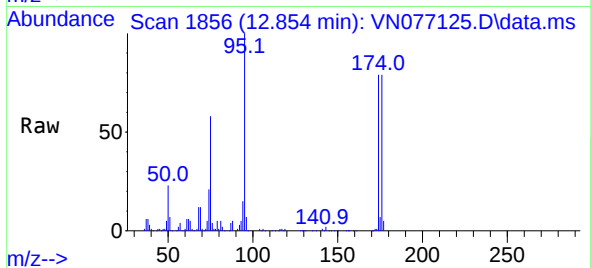
58 0.0 27.7 83.1#



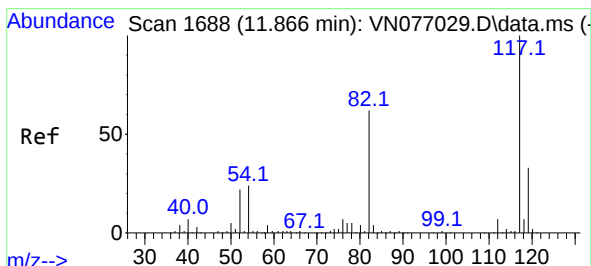
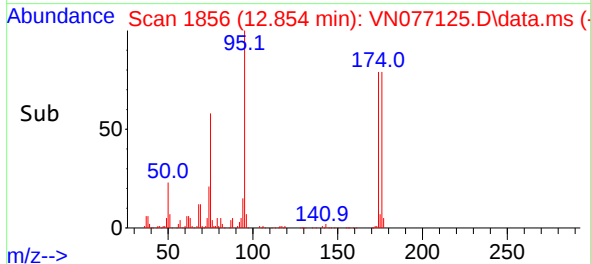
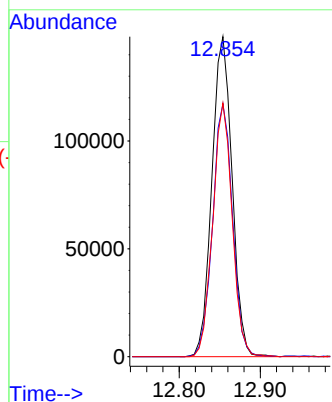


#62
4-Bromofluorobenzene
Concen: 44.072 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Instrument :
MSVOA_N
ClientSampleId :

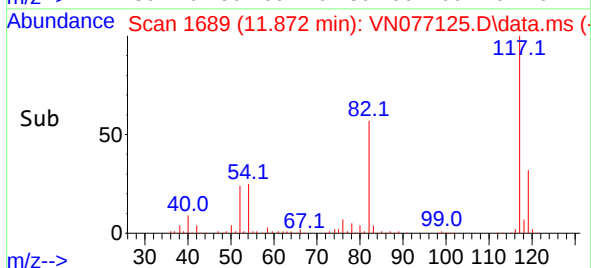
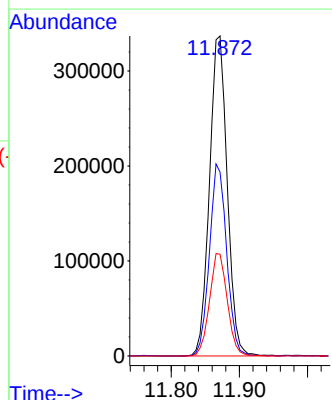
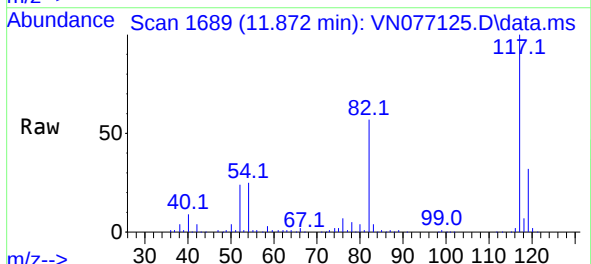


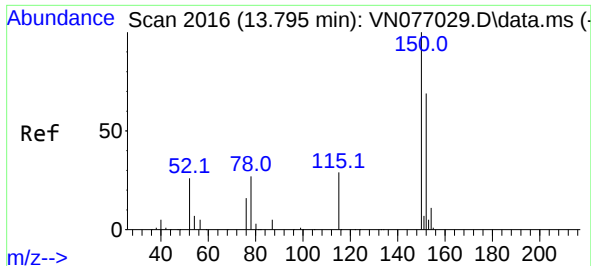
Tgt Ion: 95 Resp: 256089
Ion Ratio Lower Upper
95 100
174 78.2 0.0 136.6
176 76.4 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

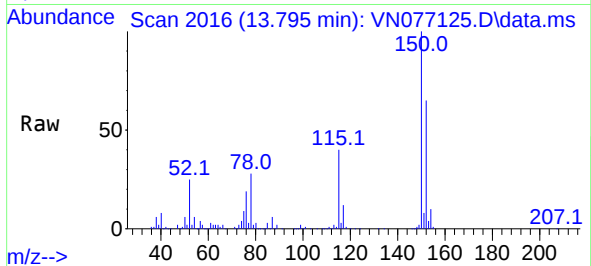
Tgt Ion: 117 Resp: 611464
Ion Ratio Lower Upper
117 100
82 57.4 49.4 74.0
119 31.8 26.5 39.7



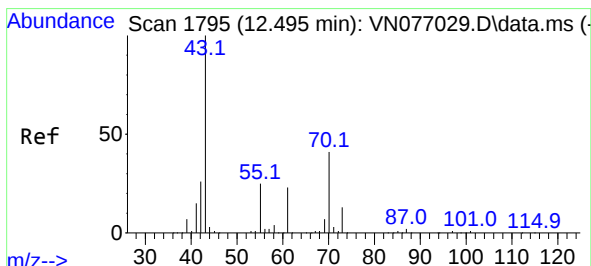
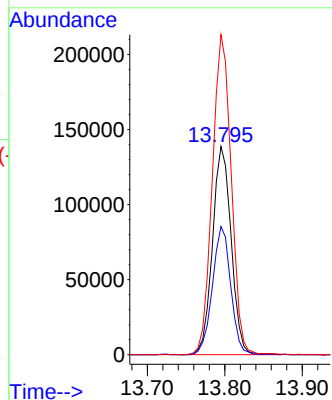
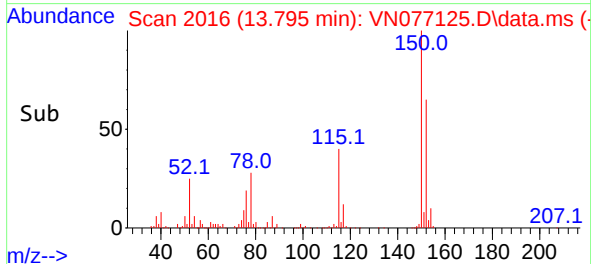


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Instrument :
MSVOA_N
ClientSampleId :

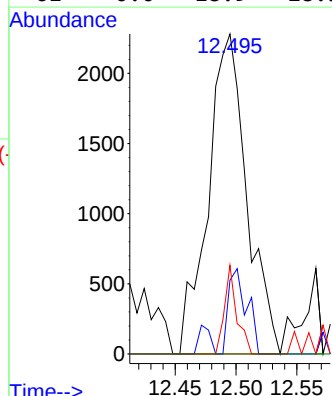
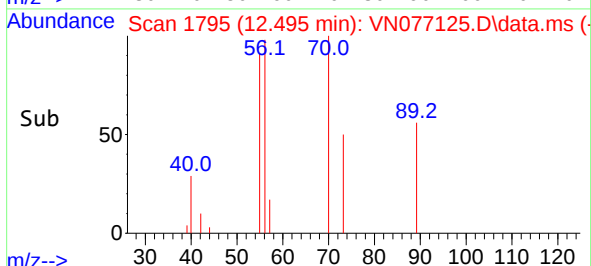
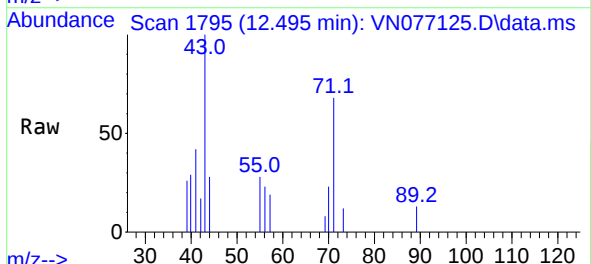


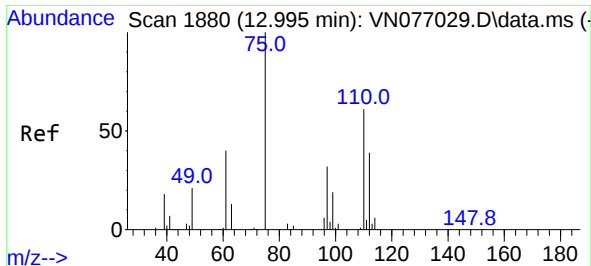
Tgt Ion:152 Resp: 231823
Ion Ratio Lower Upper
152 100
115 60.3 31.9 95.7
150 156.1 0.0 348.0



#74
N-ethyl acetate
Concen: 0.561 ug/l
RT: 12.495 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 43 Resp: 5049
Ion Ratio Lower Upper
43 100
70 12.7 33.6 50.4#
55 8.8 20.3 30.5#
61 0.0 18.9 28.3#

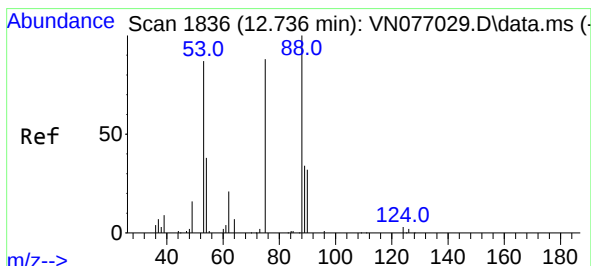
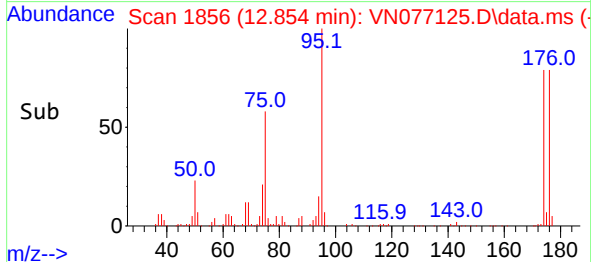
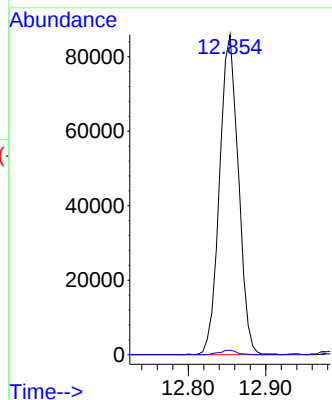
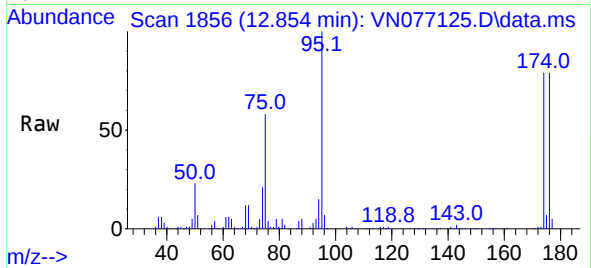




#76
1,2,3-Trichloropropane
Concen: 24.219 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

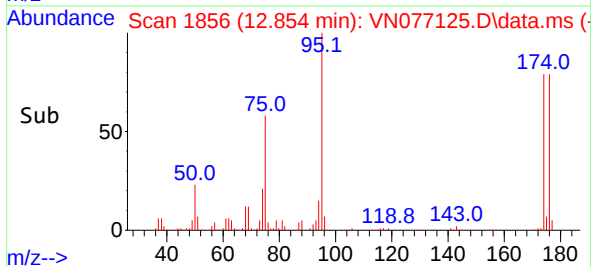
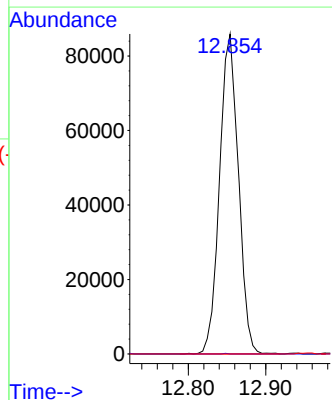
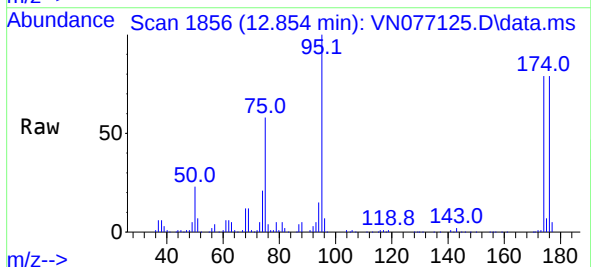
Instrument :
MSVOA_N
ClientSampleId :

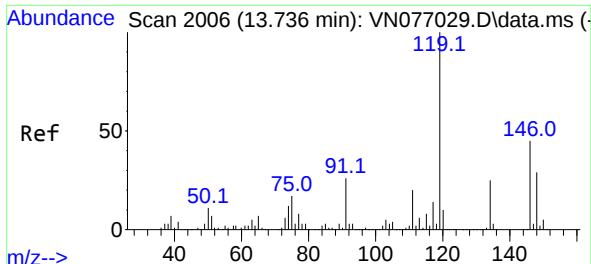
Tgt Ion: 75 Resp: 145230
Ion Ratio Lower Upper
75 100
77 1.3 107.3 322.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.666 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077125.D
Acq: 23 Mar 2023 04:10

Tgt Ion: 75 Resp: 145230
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#





#87

1,3-Dichlorobenzene

Concen: 0.210 ug/l

RT: 13.748 min Scan# 2008

Delta R.T. 0.012 min

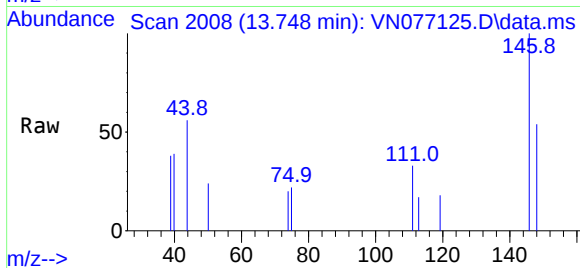
Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

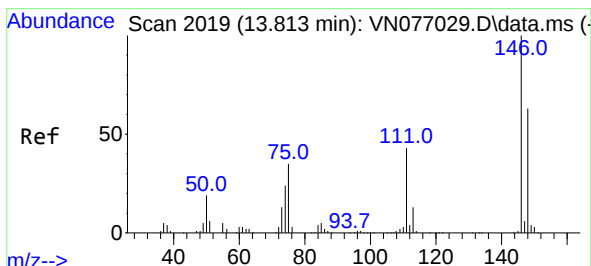
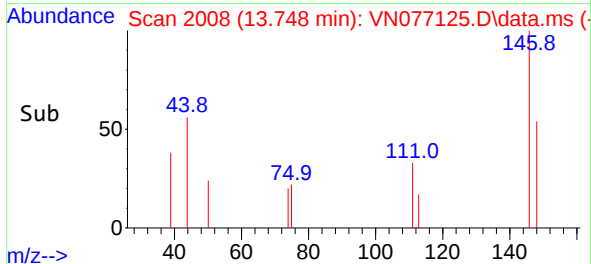
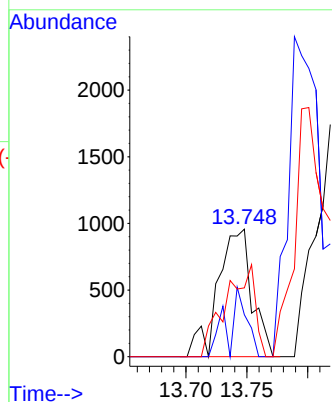
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	146	Resp:	1850
Ion	Ratio	Lower	Upper
146	100		
111	20.1	21.9	65.5#
148	63.0	32.1	96.5



#88

1,4-Dichlorobenzene

Concen: 0.314 ug/l

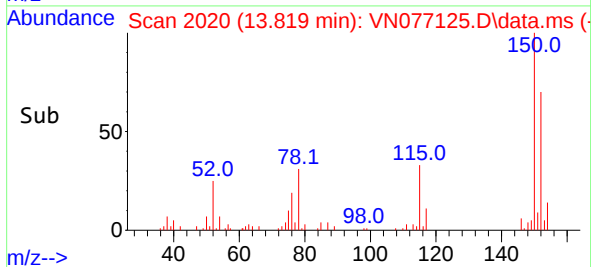
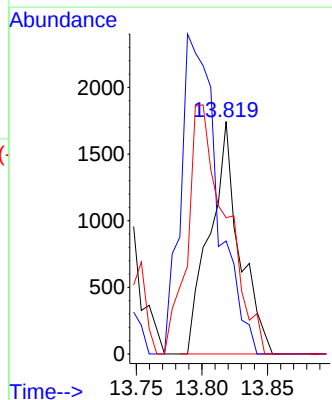
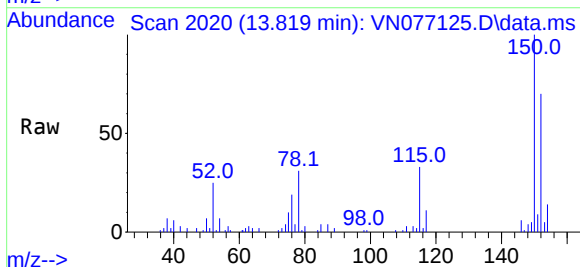
RT: 13.819 min Scan# 2020

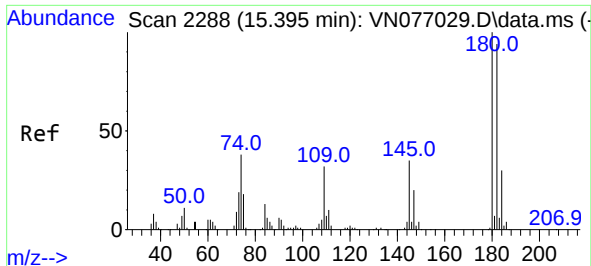
Delta R.T. 0.005 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Tgt Ion:	146	Resp:	2747
Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.5	64.5#
148	0.0	31.9	95.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.521 ug/l

RT: 15.401 min Scan# 21

Delta R.T. 0.006 min

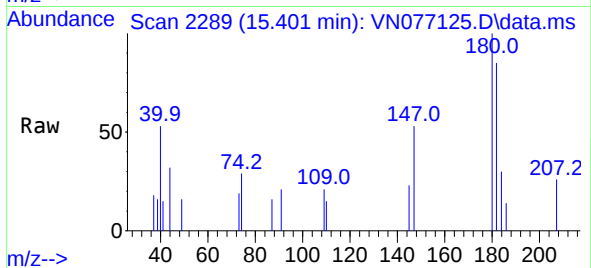
Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

Instrument :

MSVOA_N

ClientSampleId :



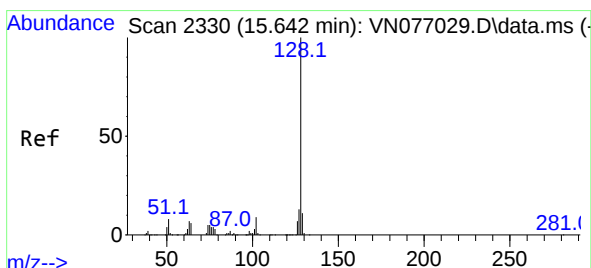
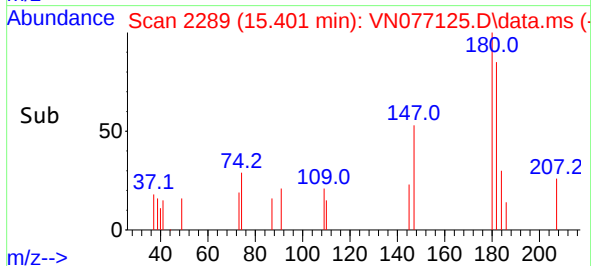
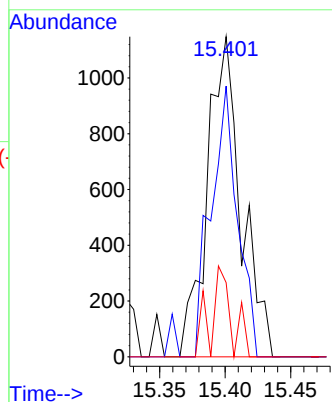
Tgt Ion:180 Resp: 2066

Ion Ratio Lower Upper

180 100

182 66.6 47.3 141.9

145 17.5 16.9 50.7



#95

Naphthalene

Concen: 2.314 ug/l

RT: 15.648 min Scan# 2331

Delta R.T. 0.006 min

Lab File: VN077125.D

Acq: 23 Mar 2023 04:10

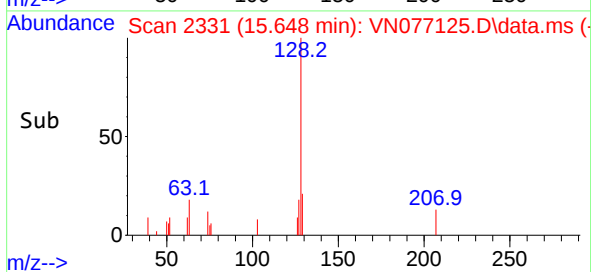
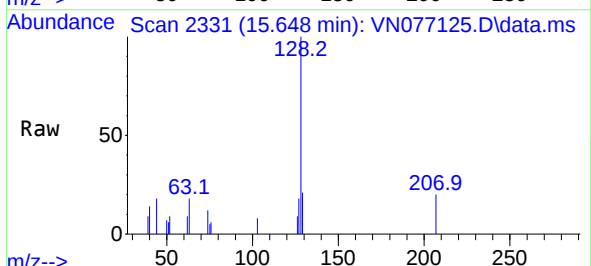
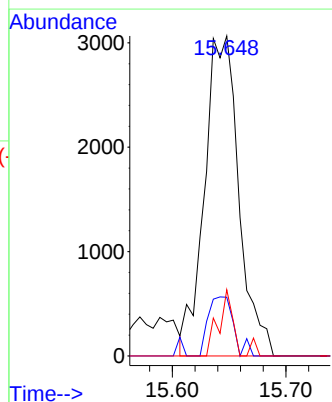
Tgt Ion:128 Resp: 6442

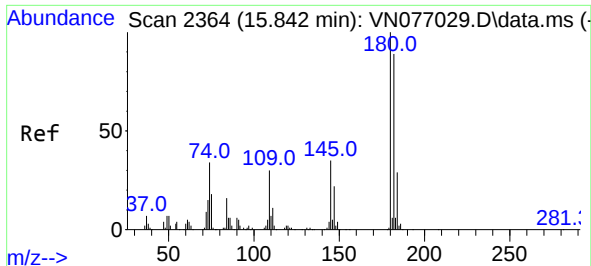
Ion Ratio Lower Upper

128 100

127 13.6 10.0 15.0

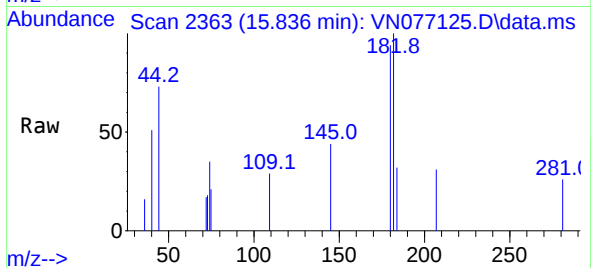
129 8.5 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.465 ug/l
 RT: 15.836 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN077125.D
 Acq: 23 Mar 2023 04:10

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1849
Ion	Ratio	Lower	Upper
180	100		
182	66.0	47.4	142.2
145	38.1	17.9	53.8

