

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041323\
 Data File : VN077323.D
 Acq On : 13 Apr 2023 12:58
 Operator : JC\MD
 Sample : 02292-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SO-VB3-041123

Quant Time: Apr 14 07:23:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

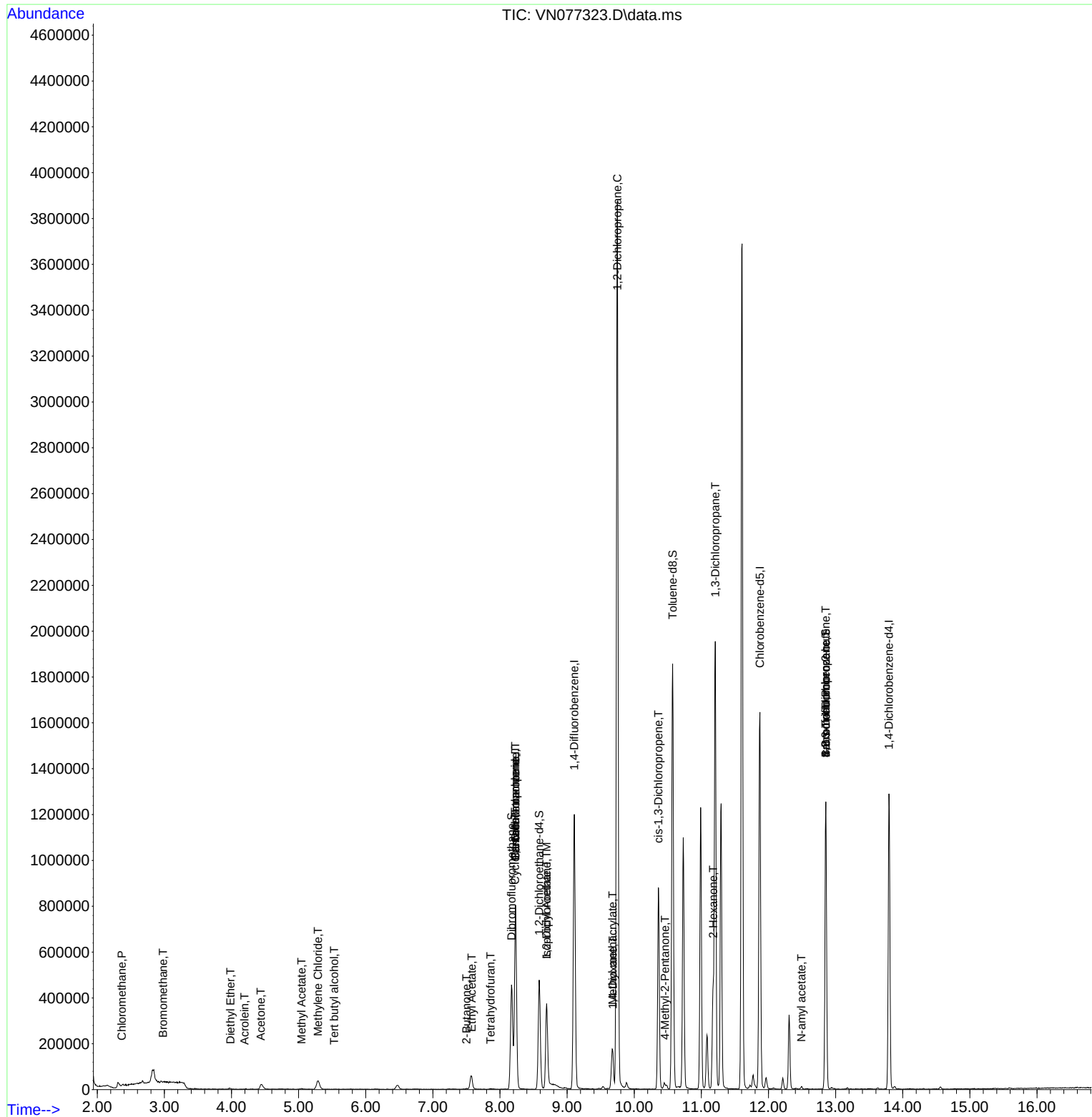
Internal Standards						
1) Pentafluorobenzene	8.231	168	556864	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1077698	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	990952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	346215	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	360438	47.358	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.720%		
35) Dibromofluoromethane	8.172	113	327915	47.530	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.060%		
50) Toluene-d8	10.572	98	1359585	48.953	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.900%		
62) 4-Bromofluorobenzene	12.854	95	434979	47.091	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.180%		
Target Compounds						Qvalue
3) Chloromethane	2.366	50	1790	0.203	ug/l #	70
5) Bromomethane	2.978	94	2387	0.276	ug/l #	43
8) Diethyl Ether	3.984	74	2185	0.504	ug/l	75
11) Tert butyl alcohol	5.531	59	361	0.232	ug/l #	72
13) Acrolein	4.195	56	411	0.279	ug/l #	1
16) Acetone	4.437	43	41463	14.776	ug/l	97
18) Methyl Acetate	5.043	43	2381	0.223	ug/l #	11
20) Methylene Chloride	5.290	84	32405	4.089	ug/l	89
25) 2-Butanone	7.501	43	3883	0.853	ug/l	97
29) Tetrahydrofuran	7.860	42	1569	0.536	ug/l #	51
31) Cyclohexane	8.225	56	13768	1.164	ug/l #	45
36) 1,1-Dichloropropene	8.231	75	47351	4.641	ug/l #	50
37) Ethyl Acetate	7.578	43	88031	9.643	ug/l	99
38) Carbon Tetrachloride	8.231	117	60144	5.753	ug/l #	14
42) 1,2-Dichloroethane	8.695	62	2581	0.263	ug/l #	73
43) Isopropyl Acetate	8.695	43	416719	24.737	ug/l #	90
45) 1,2-Dichloropropane	9.748	63	5991	0.793	ug/l #	41
48) Methyl methacrylate	9.677	41	9662	1.345	ug/l #	37
49) 1,4-Dioxane	9.683	88	379	2.175	ug/l #	1
51) 4-Methyl-2-Pentanone	10.460	43	14309	1.469	ug/l	96
54) cis-1,3-Dichloropropene	10.360	75	177708	13.497	ug/l #	59
57) 1,3-Dichloropropane	11.207	76	24157	1.788	ug/l #	42
59) 2-Hexanone	11.177	43	314337	43.331	ug/l #	20
71) Bromoform	12.854	173	2467	0.425	ug/l #	1
74) N-amyl acetate	12.489	43	4519	0.355	ug/l #	55
76) 1,2,3-Trichloropropane	12.854	75	237493	28.807	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	237493	64.825	ug/l #	13

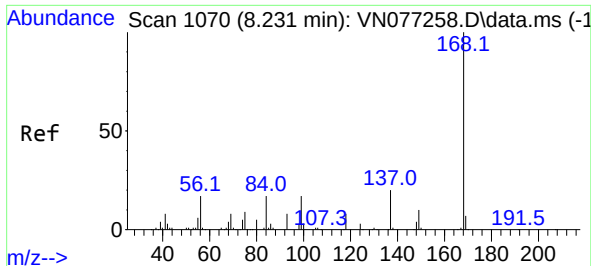
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

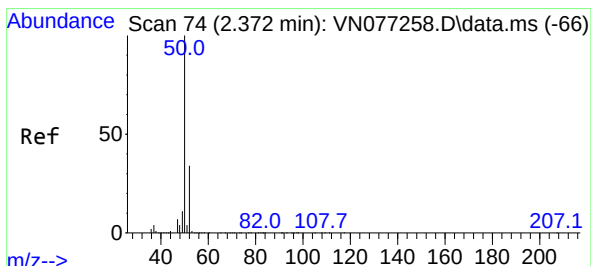
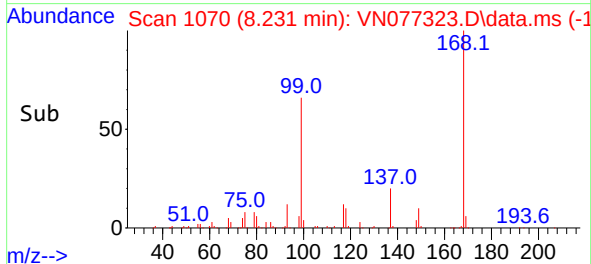
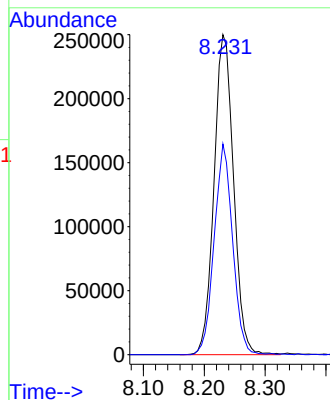
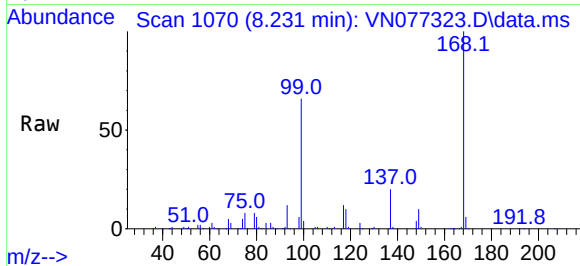




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

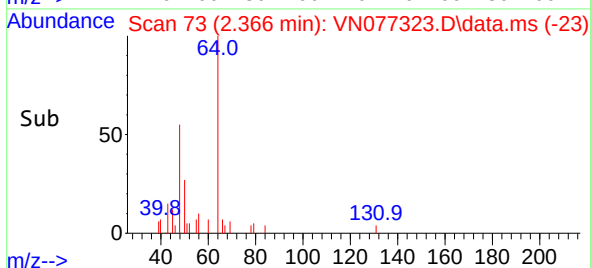
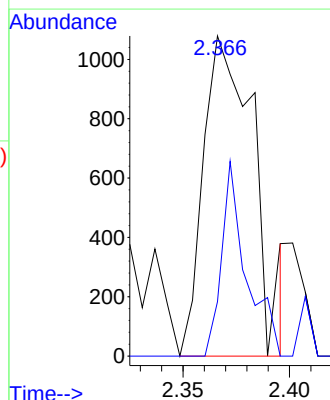
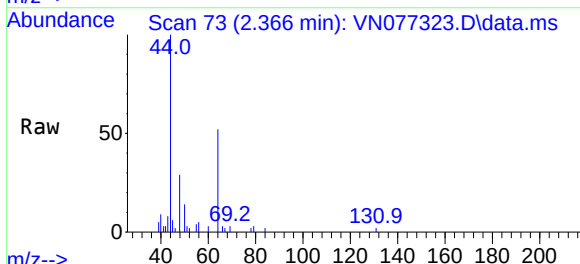
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

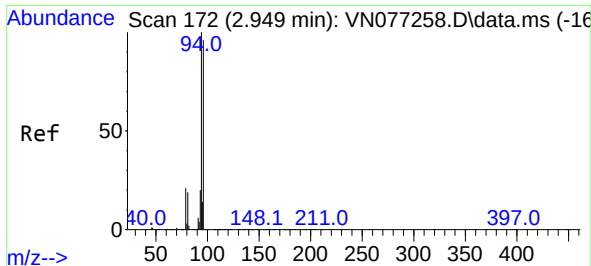
Tgt Ion:168 Resp: 556864
Ion Ratio Lower Upper
168 100
99 65.9 50.6 75.8



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.366 min Scan# 73
Delta R.T. -0.006 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 50 Resp: 1790
Ion Ratio Lower Upper
50 100
52 17.0 27.3 40.9#

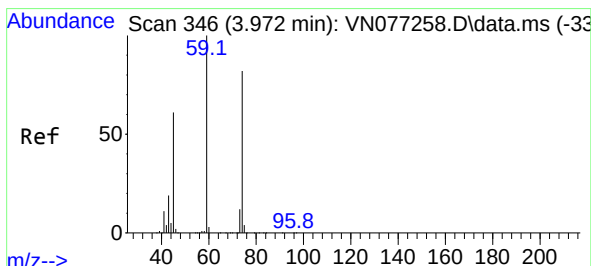
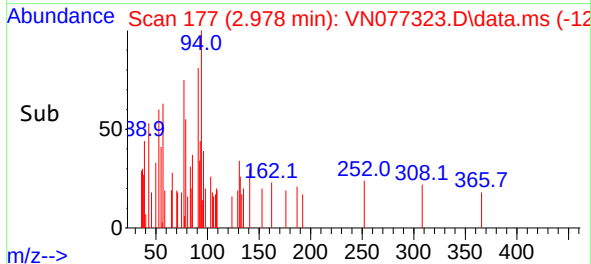
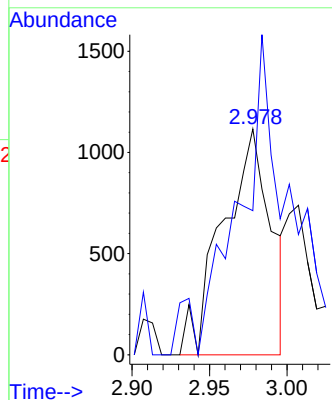
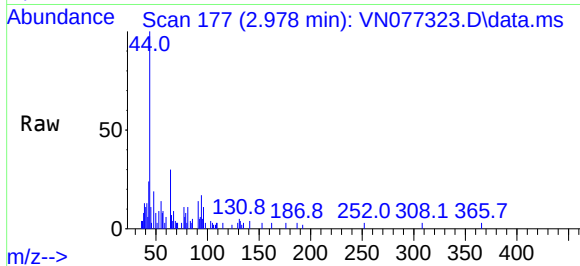




#5
Bromomethane
Concen: 0.276 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

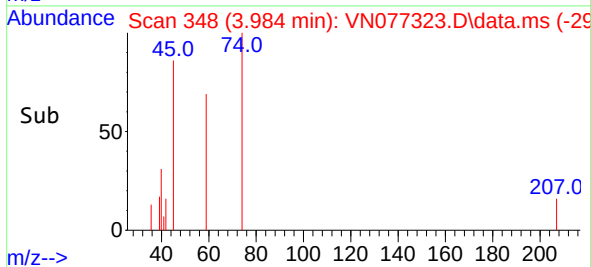
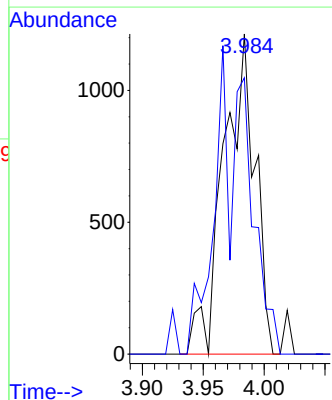
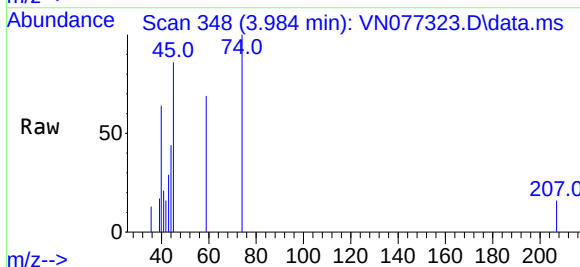
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

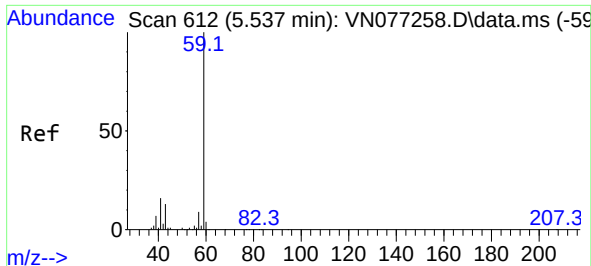
Tgt Ion: 94 Resp: 2387
Ion Ratio Lower Upper
94 100
96 40.8 77.0 115.4#



#8
Diethyl Ether
Concen: 0.504 ug/l
RT: 3.984 min Scan# 348
Delta R.T. 0.012 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 74 Resp: 2185
Ion Ratio Lower Upper
74 100
45 54.1 37.8 113.4

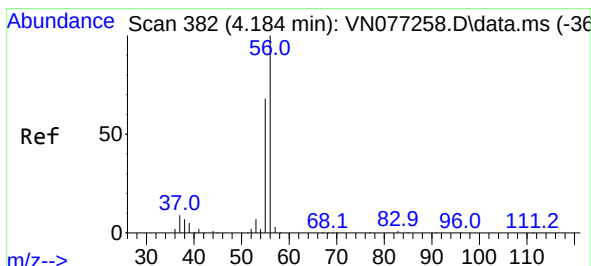
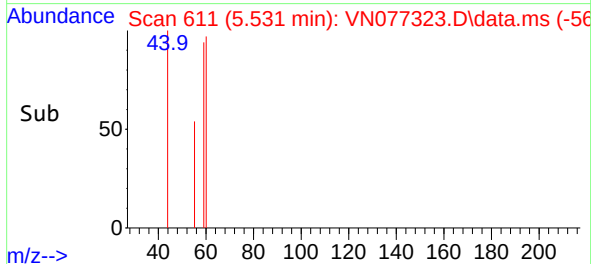
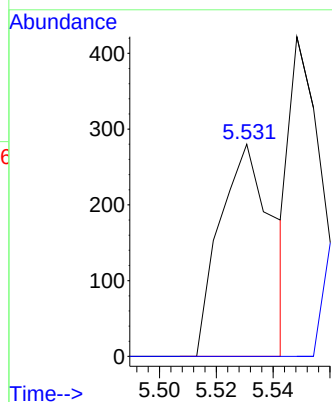
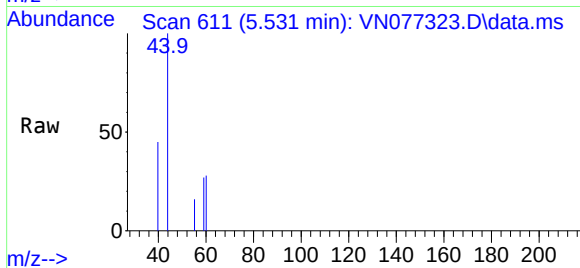




#11
Tert butyl alcohol
Concen: 0.232 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

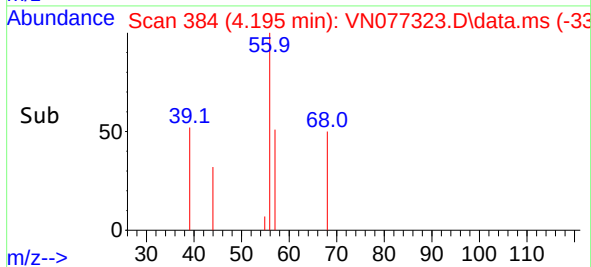
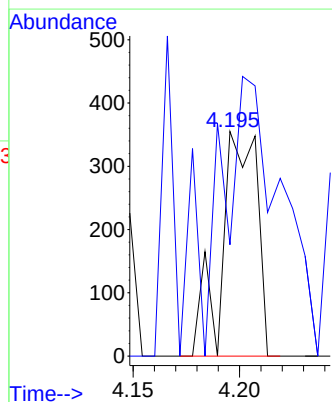
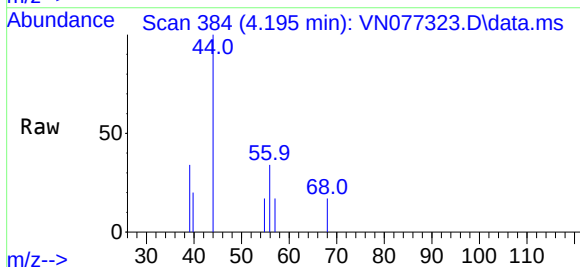
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

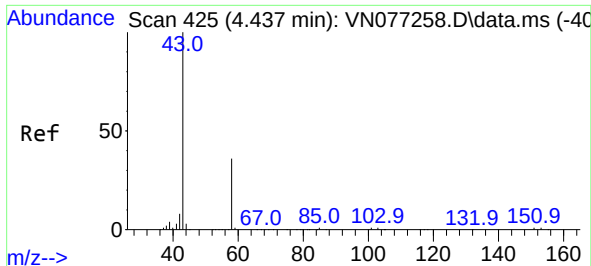
Tgt Ion: 59 Resp: 361
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.279 ug/l
RT: 4.195 min Scan# 384
Delta R.T. 0.011 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 56 Resp: 411
Ion Ratio Lower Upper
56 100
55 198.5 54.2 81.2#

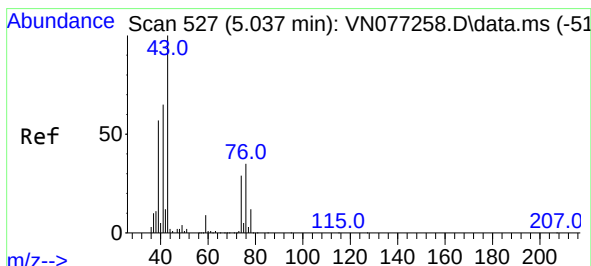
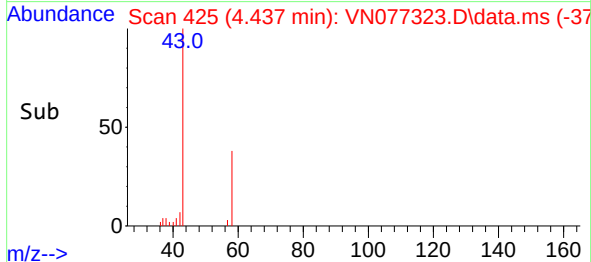
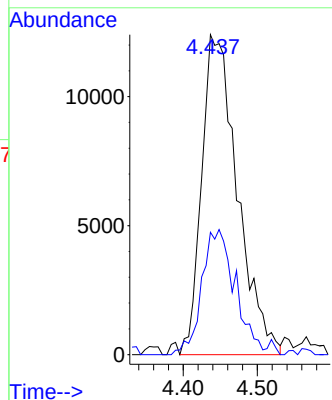
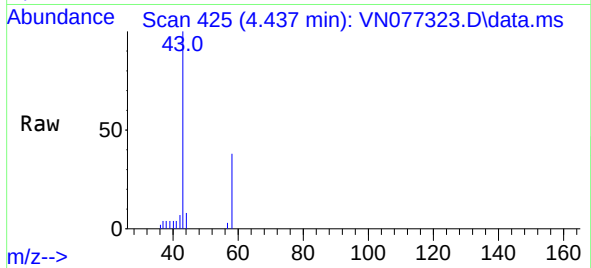




#16
Acetone
Concen: 14.776 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

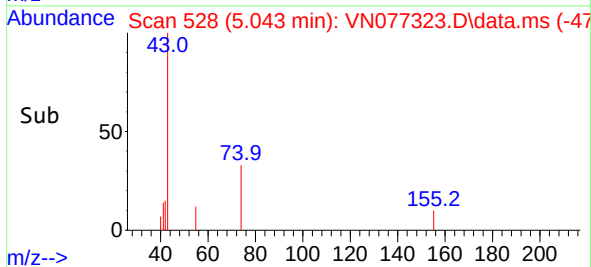
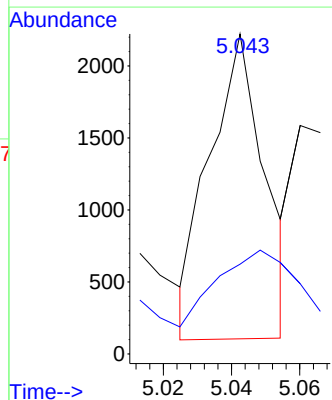
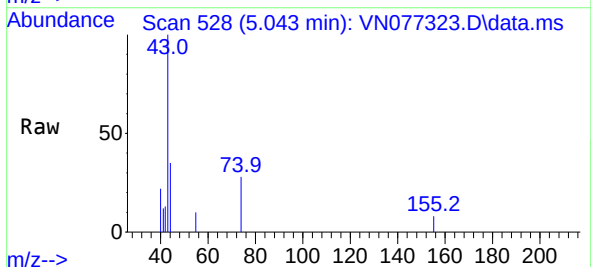
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

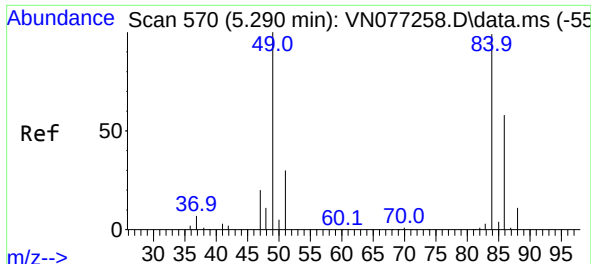
Tgt Ion: 43 Resp: 41463
Ion Ratio Lower Upper
43 100
58 38.2 29.0 43.6



#18
Methyl Acetate
Concen: 0.223 ug/l
RT: 5.043 min Scan# 528
Delta R.T. 0.006 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

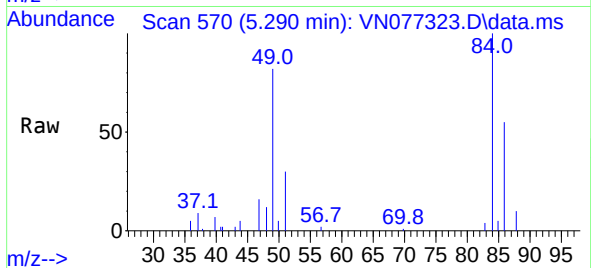
Tgt Ion: 43 Resp: 2381
Ion Ratio Lower Upper
43 100
74 77.0 23.4 35.2#





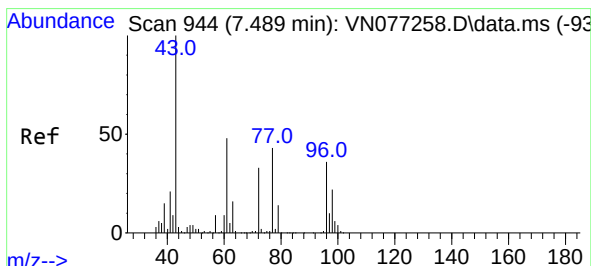
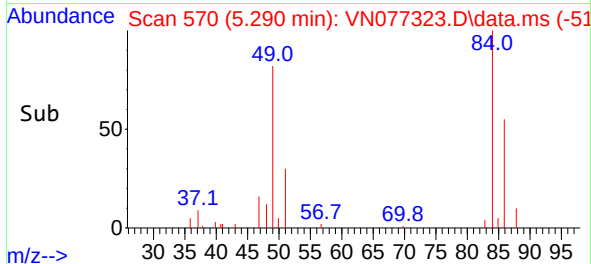
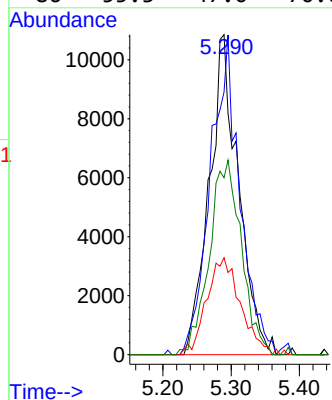
#20
Methylene Chloride
Concen: 4.089 ug/l
RT: 5.290 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123



Tgt Ion: 84 Resp: 32405

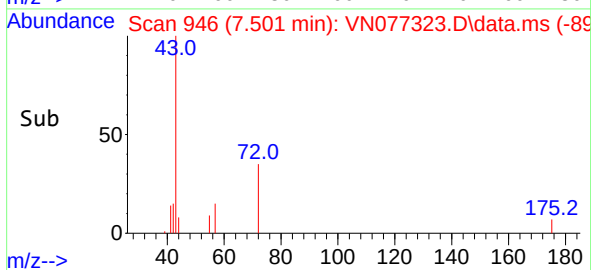
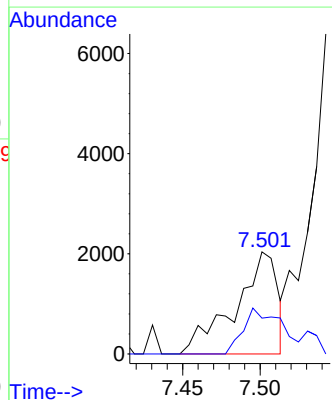
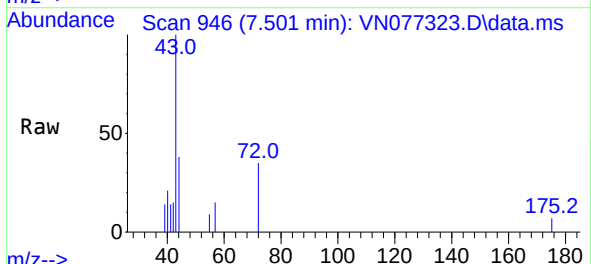
Ion	Ratio	Lower	Upper
84	100		
49	82.1	80.6	121.0
51	30.3	24.4	36.6
86	55.3	47.0	70.6

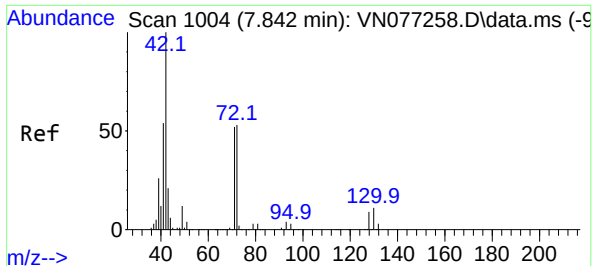


#25
2-Butanone
Concen: 0.853 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 43 Resp: 3883

Ion	Ratio	Lower	Upper
43	100		
72	35.2	26.6	39.8





#29

Tetrahydrofuran

Concen: 0.536 ug/l

RT: 7.860 min Scan# 1069

Delta R.T. 0.018 min

Lab File: VN077323.D

Acq: 13 Apr 2023 12:58

Instrument :

MSVOA_N

ClientSampleId :

IDW-SO-VB3-041123

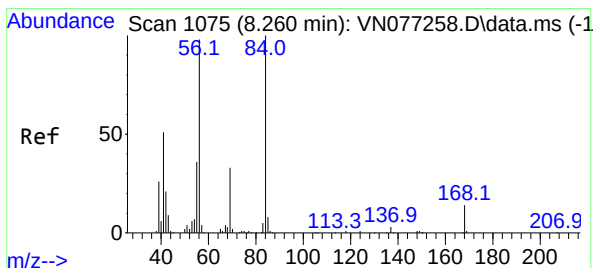
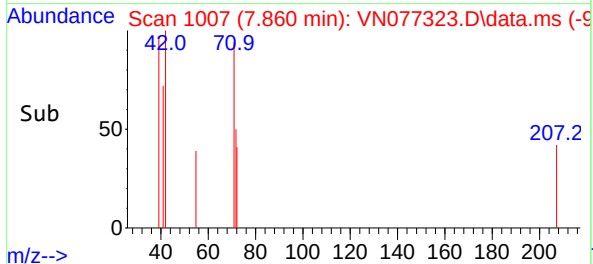
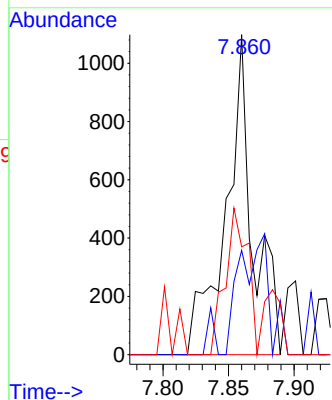
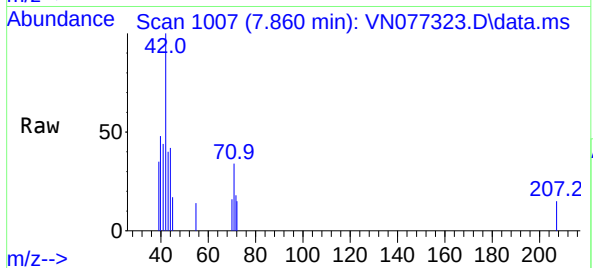
Tgt Ion: 42 Resp: 1569

Ion Ratio Lower Upper

42 100

72 0.0 44.6 66.8#

71 38.2 41.3 61.9#



#31

Cyclohexane

Concen: 1.164 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077323.D

Acq: 13 Apr 2023 12:58

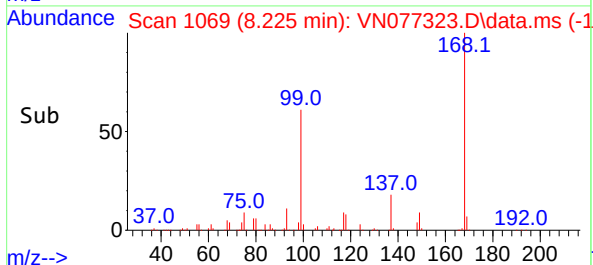
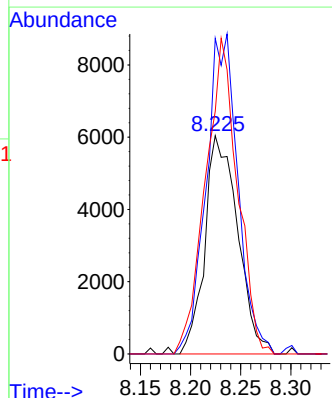
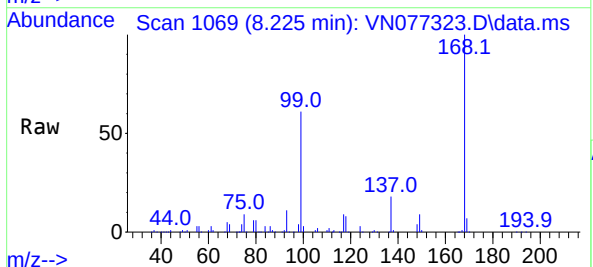
Tgt Ion: 56 Resp: 13768

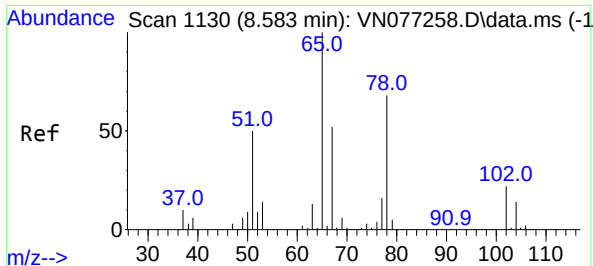
Ion Ratio Lower Upper

56 100

69 144.6 26.6 40.0#

84 111.2 81.8 122.8

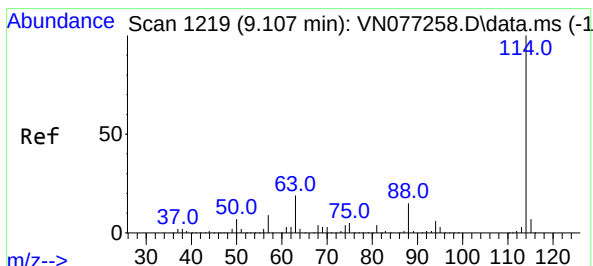
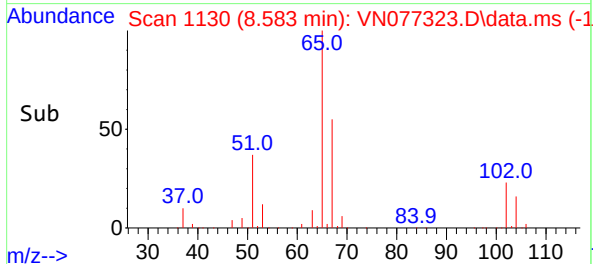
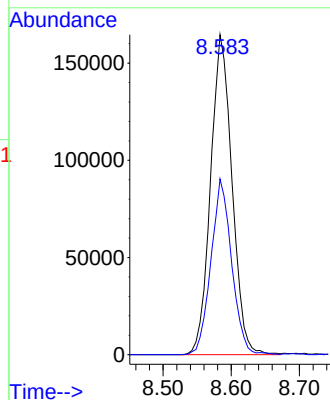
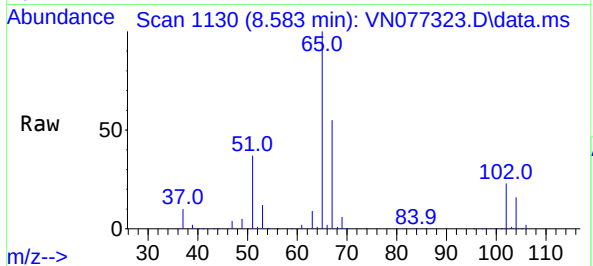




#33
1,2-Dichloroethane-d4
Concen: 47.358 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

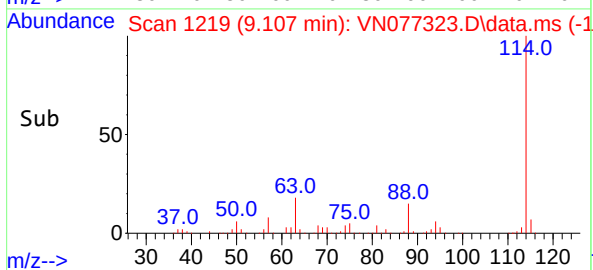
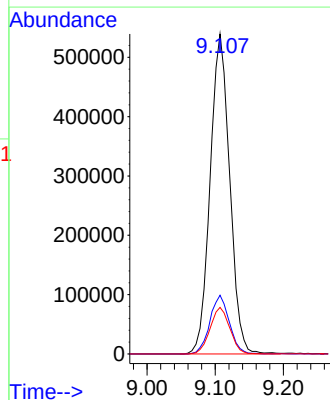
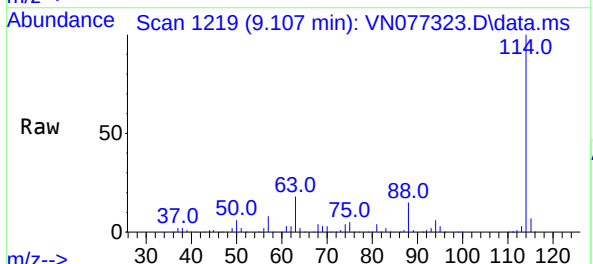
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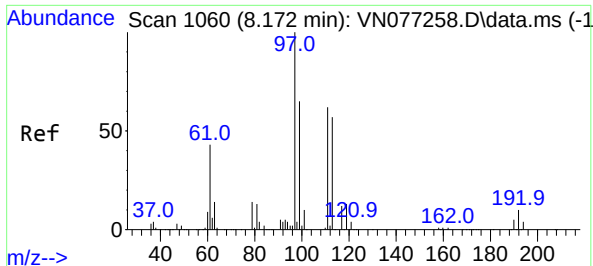
Tgt Ion: 65 Resp: 360438
Ion Ratio Lower Upper
65 100
67 53.0 0.0 108.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 114 Resp: 1077698
Ion Ratio Lower Upper
114 100
63 18.4 0.0 37.8
88 14.5 0.0 29.4



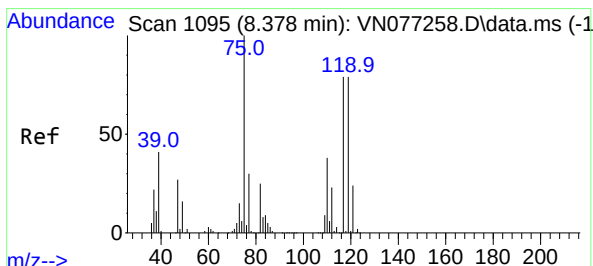
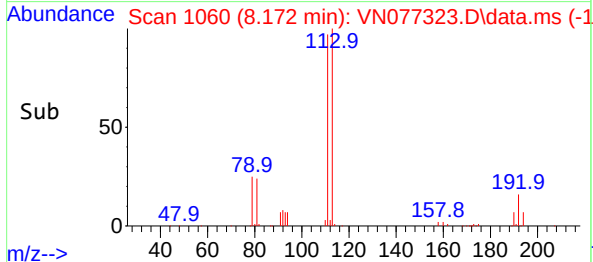
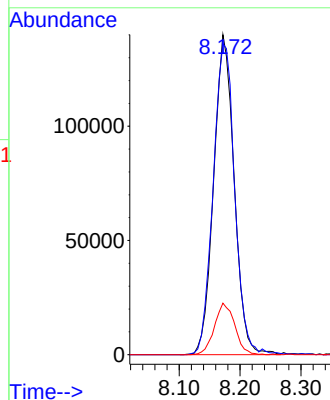
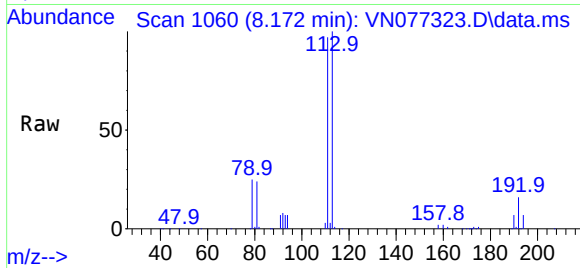


#35
Dibromofluoromethane
Concen: 47.530 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

Tgt Ion: 113 Resp: 327915

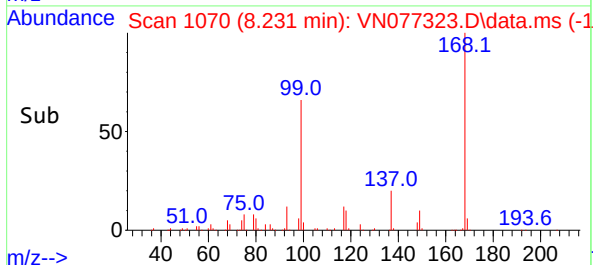
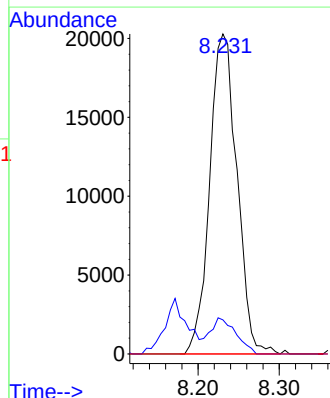
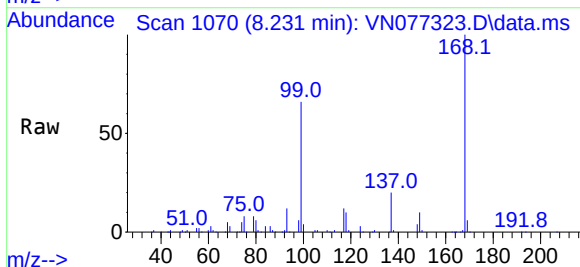
Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.4	125.0
192	16.0	13.5	20.3

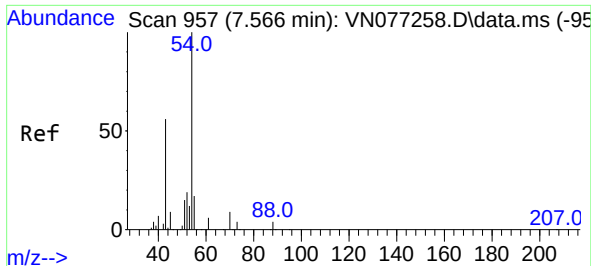


#36
1,1-Dichloropropene
Concen: 4.641 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 75 Resp: 47351

Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.8	53.5#
77	0.0	25.0	37.4#

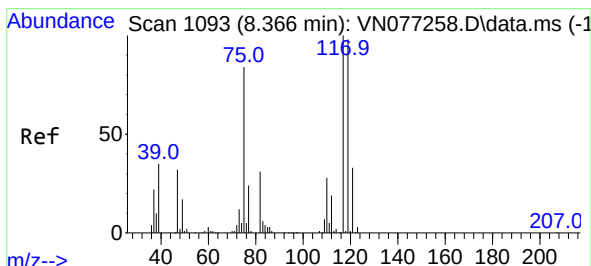
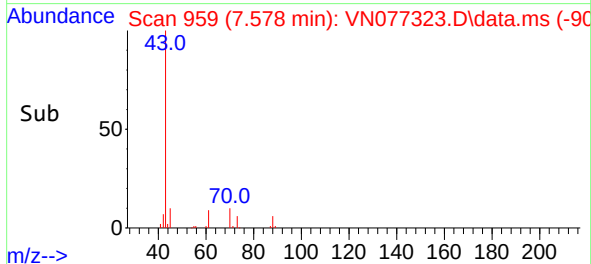
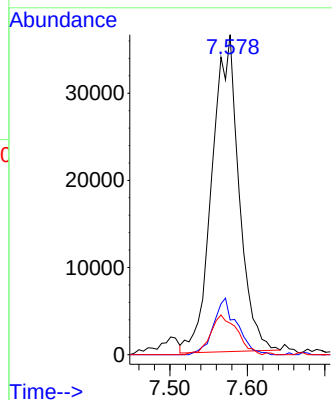
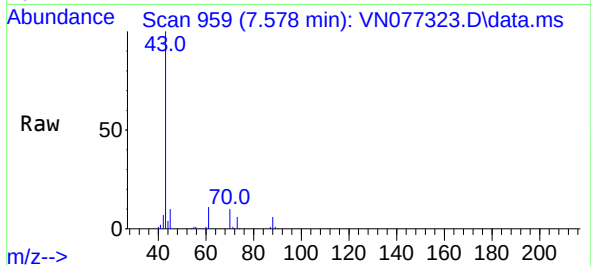




#37
Ethyl Acetate
Concen: 9.643 ug/l
RT: 7.578 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

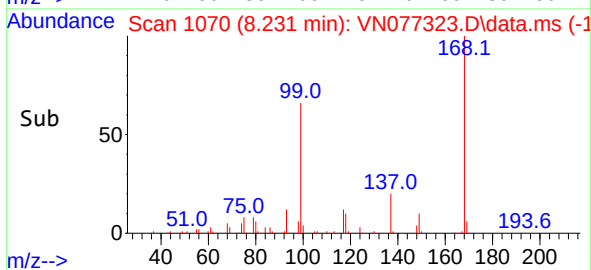
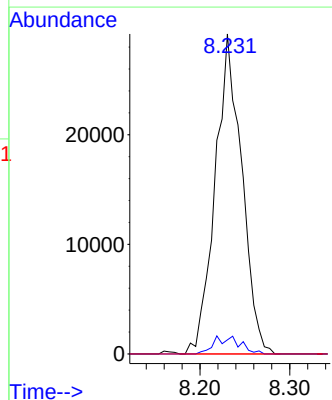
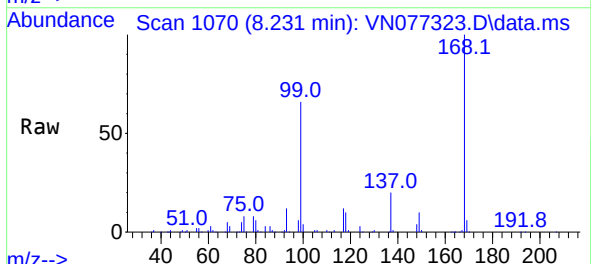
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

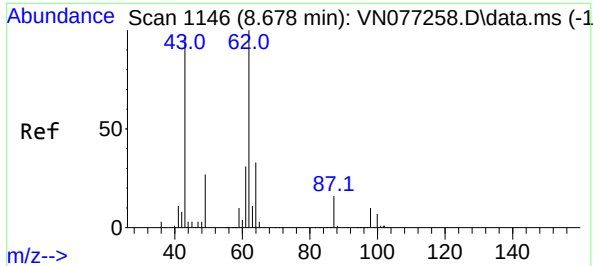
Tgt Ion: 43 Resp: 88031
Ion Ratio Lower Upper
43 100
61 15.5 12.2 18.2
70 12.4 10.0 15.0



#38
Carbon Tetrachloride
Concen: 5.753 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.135 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 117 Resp: 60144
Ion Ratio Lower Upper
117 100
119 4.4 78.5 117.7#
121 0.0 26.6 40.0#

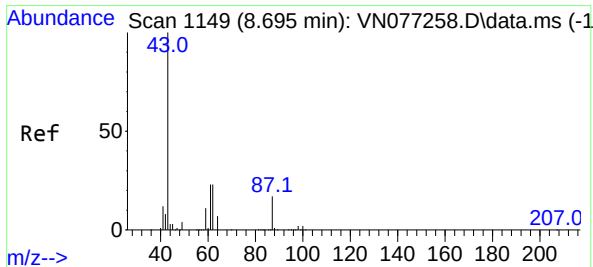
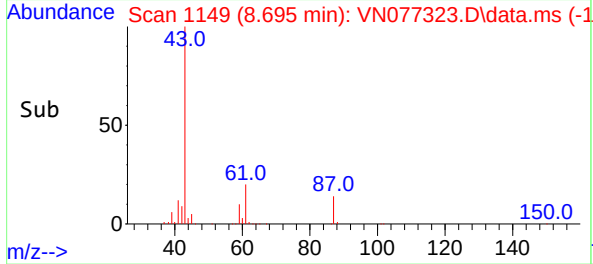
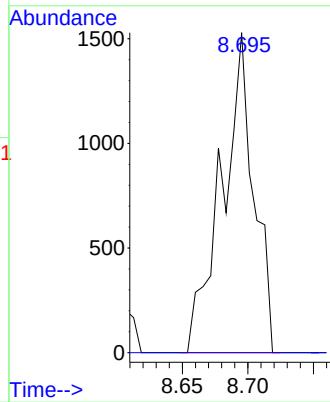
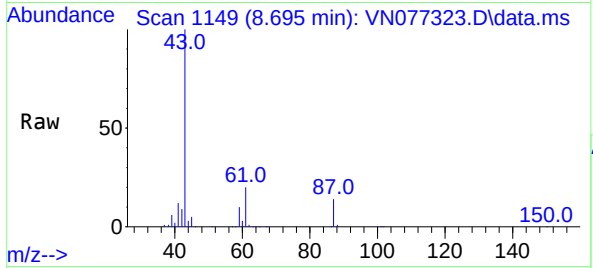




#42
 1,2-Dichloroethane
 Concen: 0.263 ug/l
 RT: 8.695 min Scan# 1149
 Delta R.T. 0.017 min
 Lab File: VN077323.D
 Acq: 13 Apr 2023 12:58

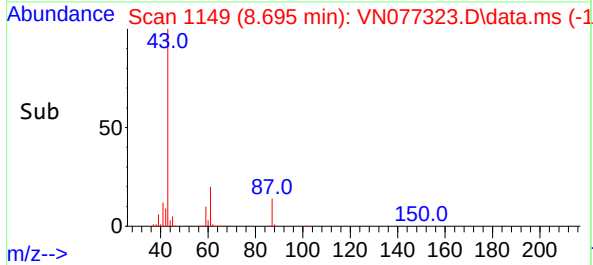
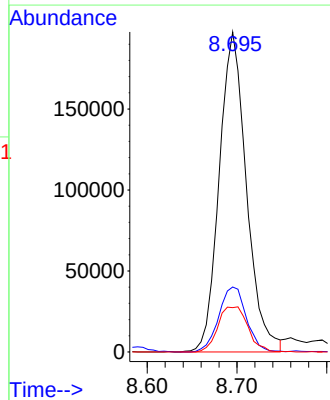
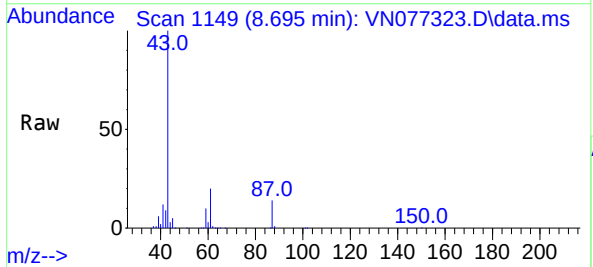
Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SO-VB3-041123

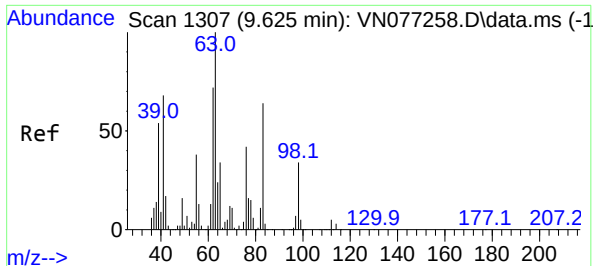
Tgt Ion:	62	Resp:	2581
Ion Ratio	Lower	Upper	
62	100		
98	0.0	0.0	20.2



#43
 Isopropyl Acetate
 Concen: 24.737 ug/l
 RT: 8.695 min Scan# 1149
 Delta R.T. 0.000 min
 Lab File: VN077323.D
 Acq: 13 Apr 2023 12:58

Tgt Ion:	43	Resp:	416719
Ion Ratio	Lower	Upper	
43	100		
61	20.6	22.7	34.1
87	15.6	13.6	20.4





#45

1,2-Dichloropropane

Concen: 0.793 ug/l

RT: 9.748 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN077323.D

Acq: 13 Apr 2023 12:58

Instrument :

MSVOA_N

ClientSampleId :

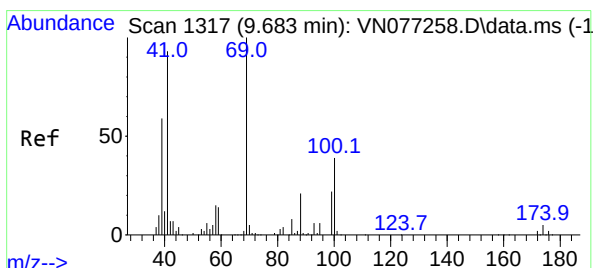
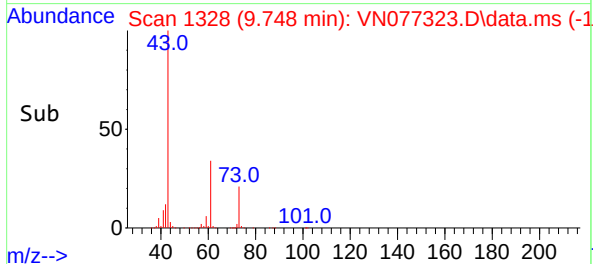
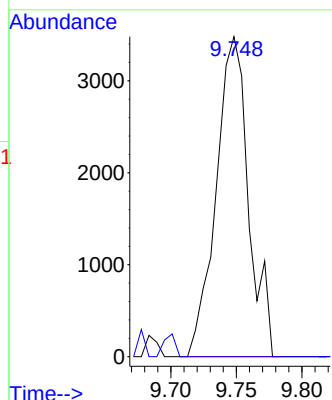
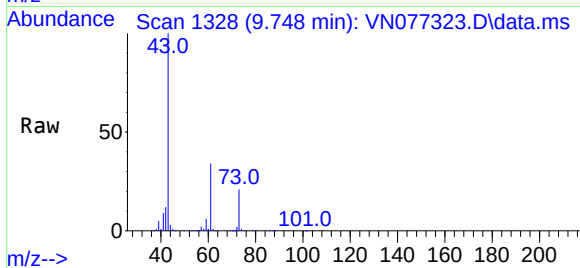
IDW-SO-VB3-041123

Tgt Ion: 63 Resp: 5991

Ion Ratio Lower Upper

63 100

65 0.0 27.1 40.7#



#48

Methyl methacrylate

Concen: 1.345 ug/l

RT: 9.677 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VN077323.D

Acq: 13 Apr 2023 12:58

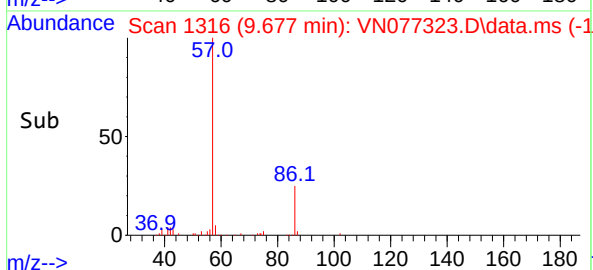
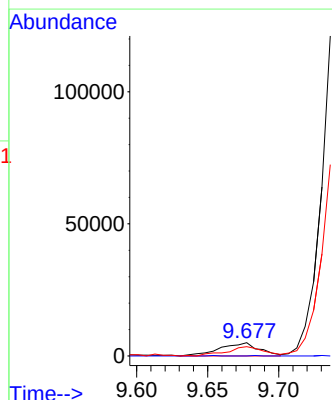
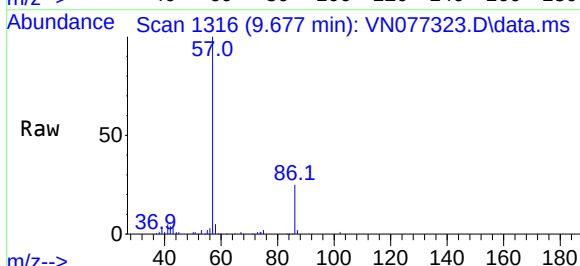
Tgt Ion: 41 Resp: 9662

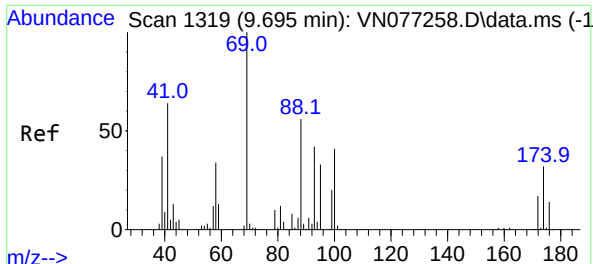
Ion Ratio Lower Upper

41 100

69 0.7 85.0 127.6#

39 65.6 53.5 80.3

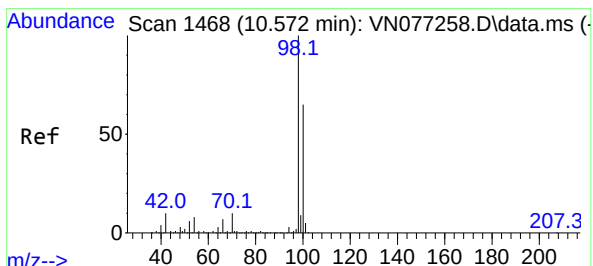
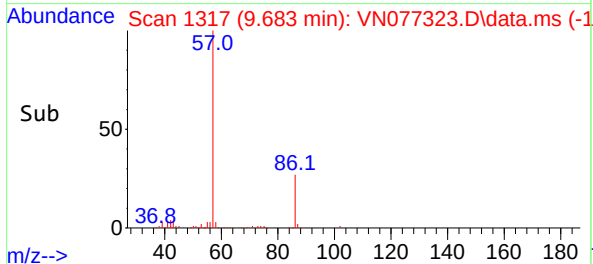
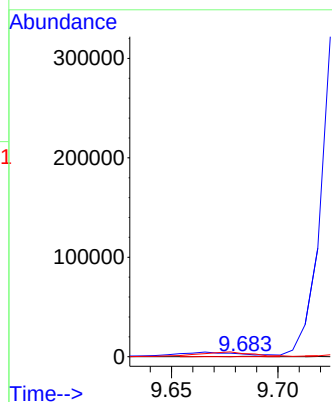
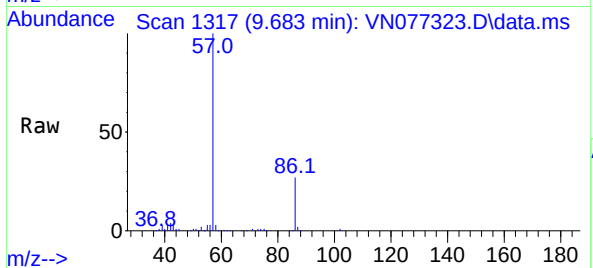




#49
1,4-Dioxane
Concen: 2.175 ug/l
RT: 9.683 min Scan# 1317
Delta R.T. -0.012 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

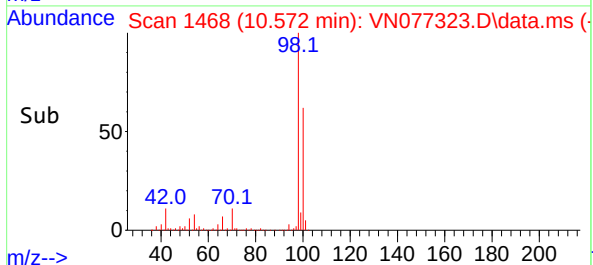
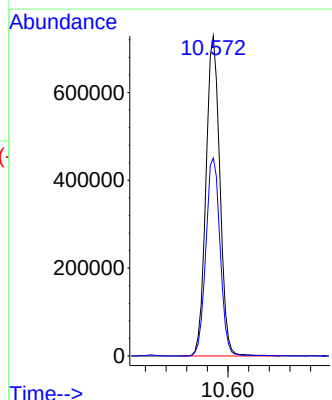
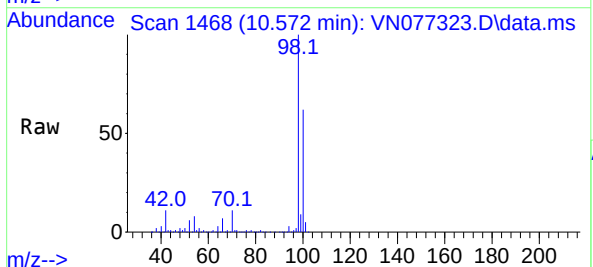
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

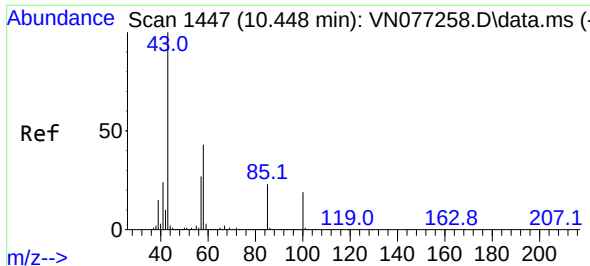
Tgt Ion: 88 Resp: 379
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 2291.8 49.8 74.6#



#50
Toluene-d8
Concen: 48.953 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 98 Resp: 1359585
Ion Ratio Lower Upper
98 100
100 63.4 51.3 76.9

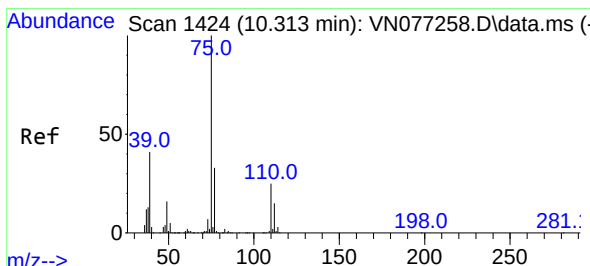
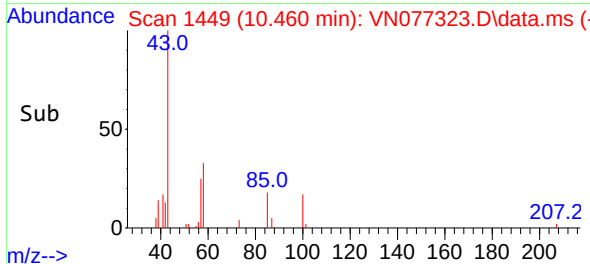
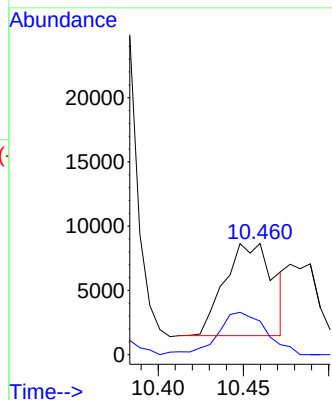
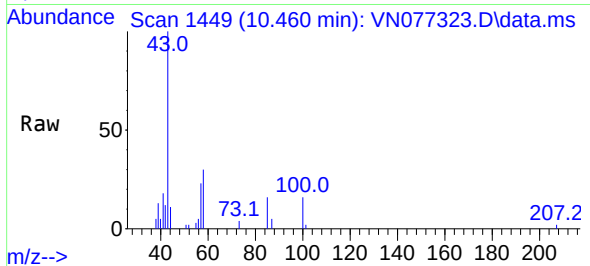




#51
4-Methyl-2-Pentanone
Concen: 1.469 ug/l
RT: 10.460 min Scan# 1449
Delta R.T. 0.012 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

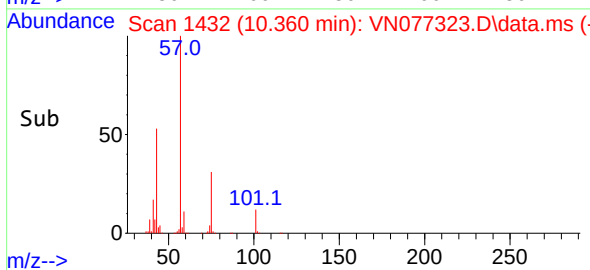
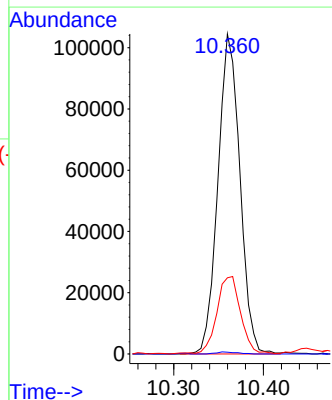
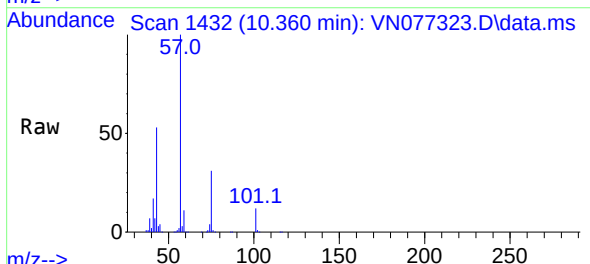
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

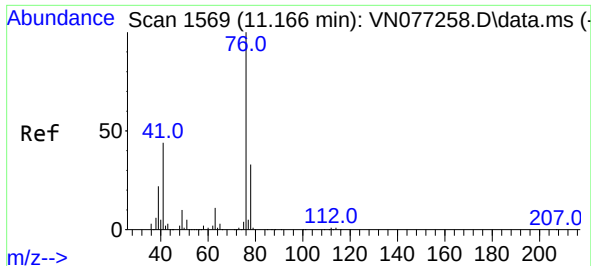
Tgt Ion: 43 Resp: 14309
Ion Ratio Lower Upper
43 100
58 45.7 34.6 52.0



#54
cis-1,3-Dichloropropene
Concen: 13.497 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 75 Resp: 177708
Ion Ratio Lower Upper
75 100
77 0.5 26.7 40.1#
39 23.6 32.8 49.2#

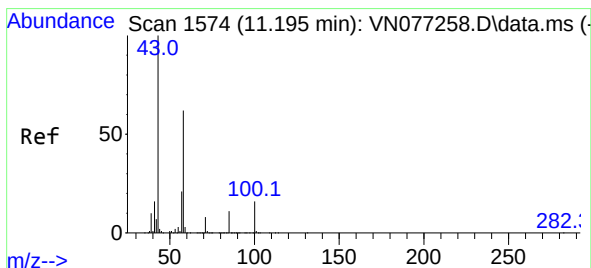
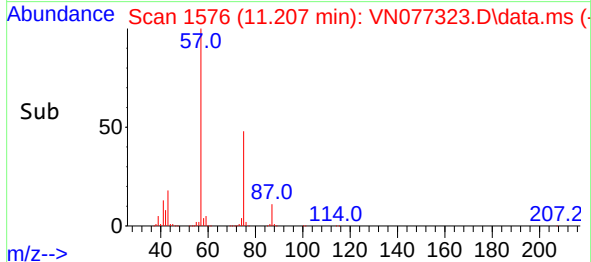
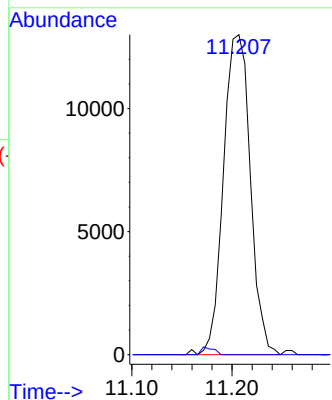
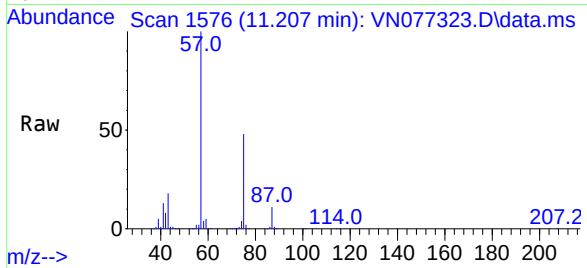




#57
1,3-Dichloropropane
Concen: 1.788 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

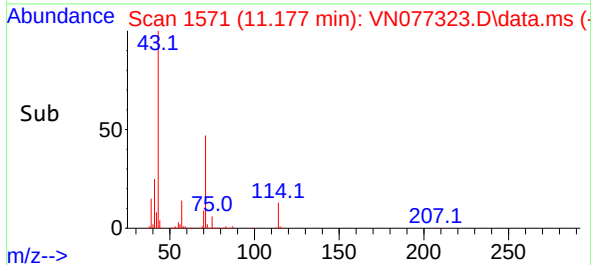
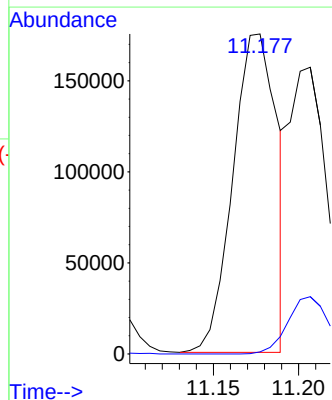
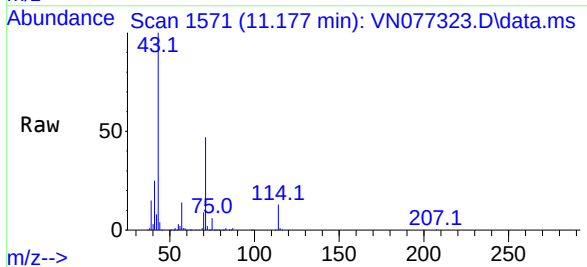
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

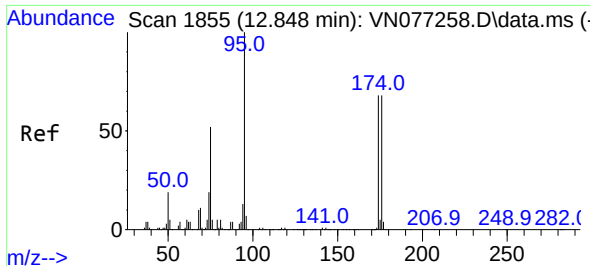
Tgt Ion: 76 Resp: 24157
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 43.331 ug/l
RT: 11.177 min Scan# 1571
Delta R.T. -0.018 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 43 Resp: 314337
Ion Ratio Lower Upper
43 100
58 0.0 30.9 92.5#



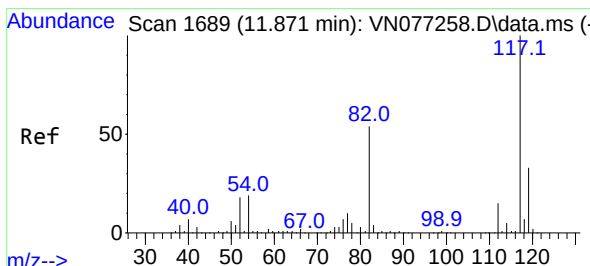
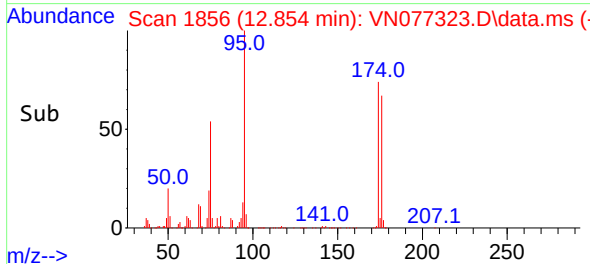
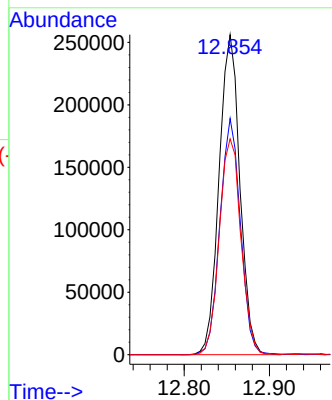
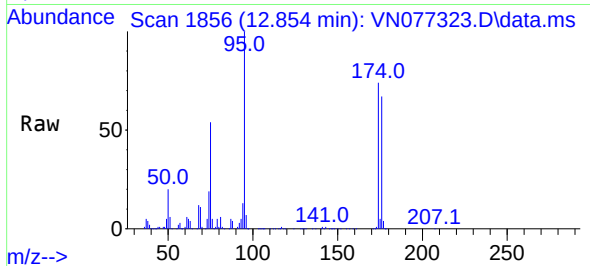


#62
4-Bromofluorobenzene
Concen: 47.091 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

Tgt Ion: 95 Resp: 434979

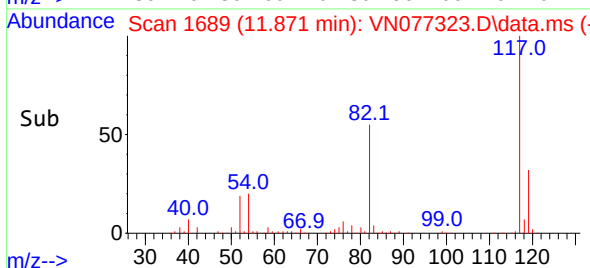
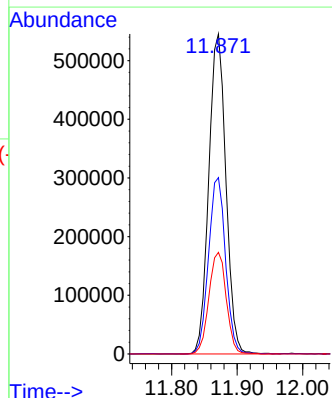
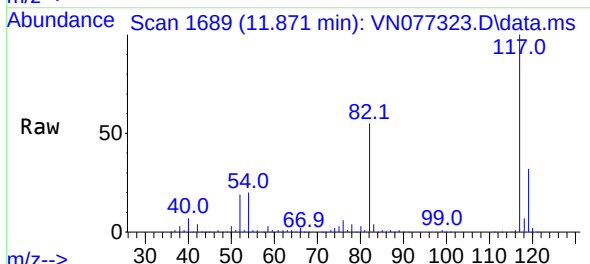
Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	146.8
176	69.8	0.0	139.6

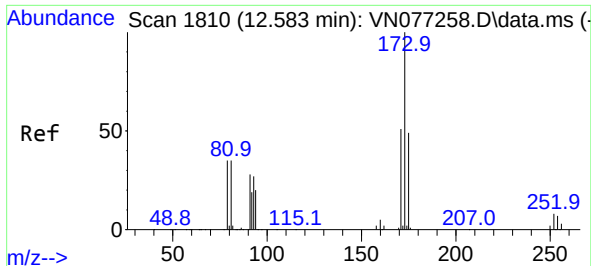


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion: 117 Resp: 990952

Ion	Ratio	Lower	Upper
117	100		
82	55.1	42.9	64.3
119	31.8	26.2	39.4

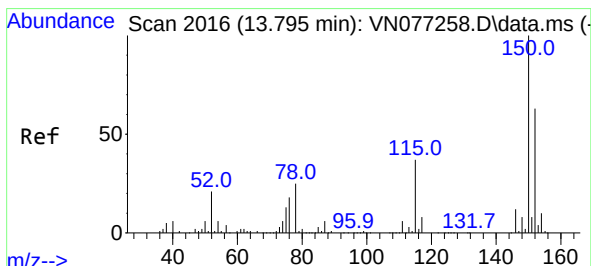
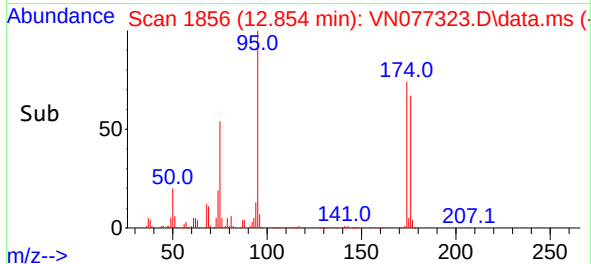
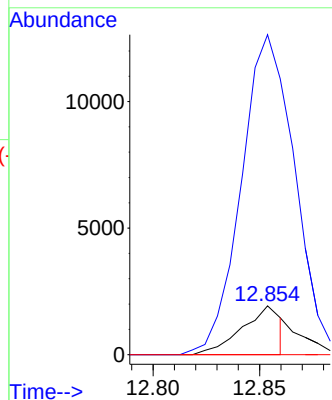
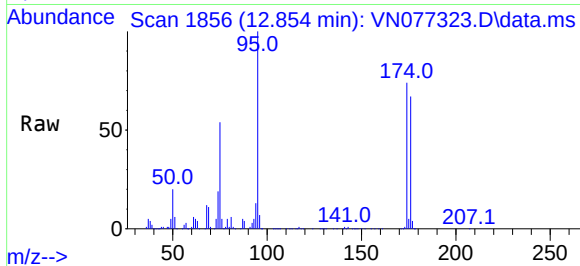




#71
Bromoform
Concen: 0.425 ug/l
RT: 12.854 min Scan# 1810
Delta R.T. 0.271 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

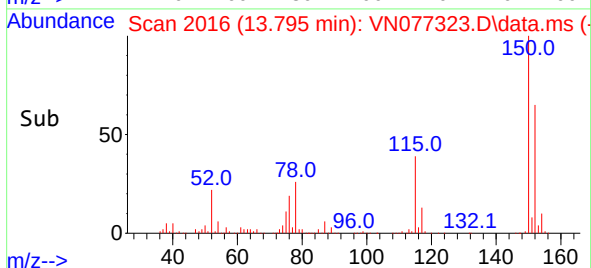
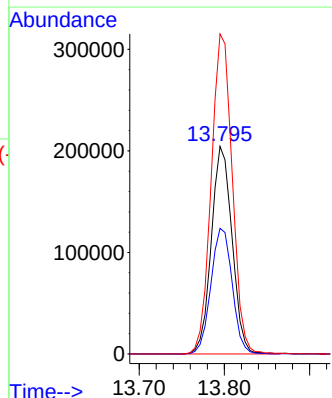
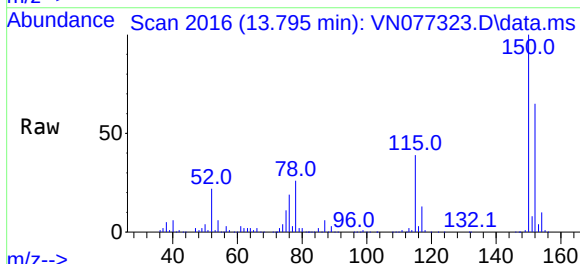
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

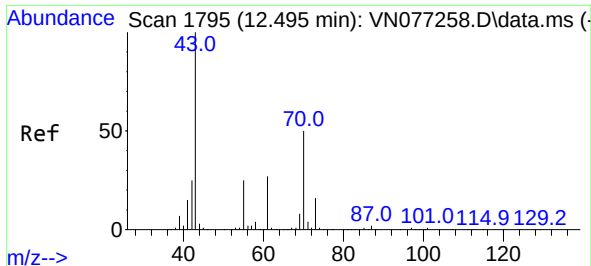
Tgt Ion:173 Resp: 2467
Ion Ratio Lower Upper
173 100
175 682.5 24.1 72.4#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

Tgt Ion:152 Resp: 346215
Ion Ratio Lower Upper
152 100
115 62.0 32.1 96.3
150 156.1 0.0 354.8

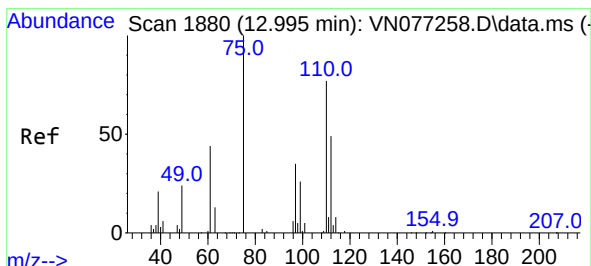
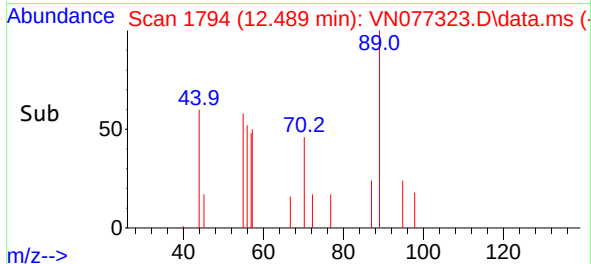
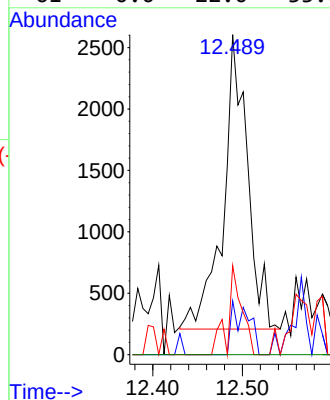
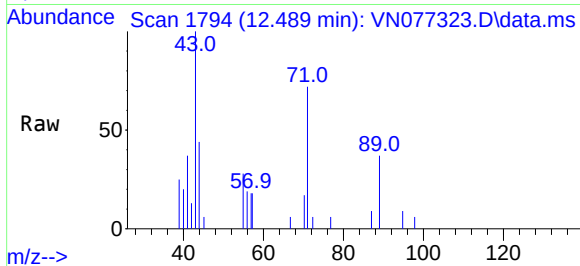




#74
N-amy1 acetate
Concen: 0.355 ug/l
RT: 12.489 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

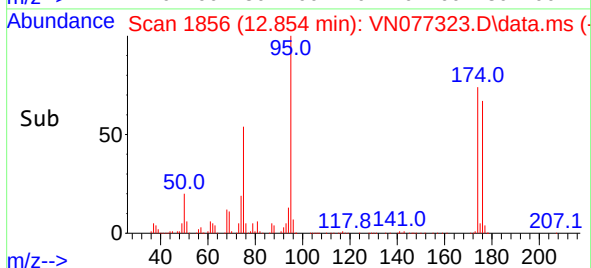
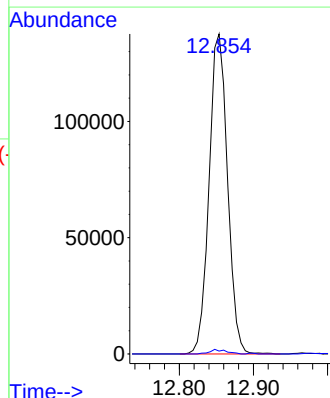
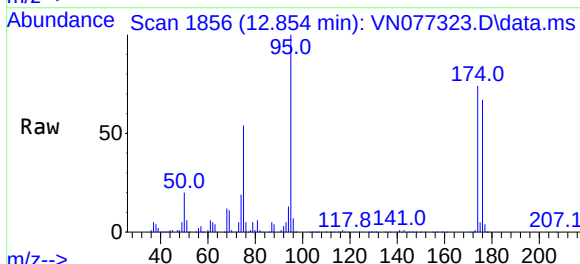
Instrument :
MSVOA_N
ClientSampleId :
IDW-SO-VB3-041123

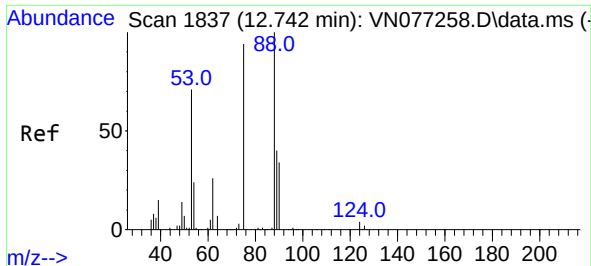
Tgt Ion:	43	Resp:	4519
Ion	Ratio	Lower	Upper
43	100		
70	12.4	41.0	61.6#
55	17.6	19.3	28.9#
61	0.0	22.0	33.0#



#76
1,2,3-Trichloropropane
Concen: 28.807 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077323.D
Acq: 13 Apr 2023 12:58

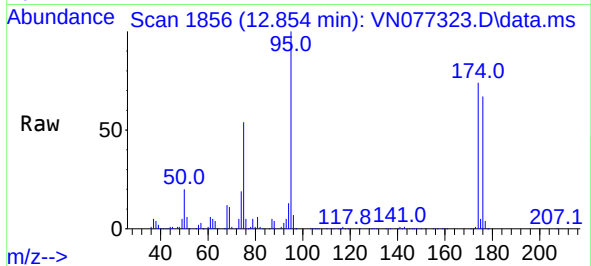
Tgt Ion:	75	Resp:	237493
Ion	Ratio	Lower	Upper
75	100		
77	1.3	88.3	264.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.825 ug/l
 RT: 12.854 min Scan# 1837
 Delta R.T. 0.112 min
 Lab File: VN077323.D
 Acq: 13 Apr 2023 12:58

Instrument :
 MSVOA_N
 ClientSampleId :
 IDW-SO-VB3-041123



Tgt Ion: 75 Resp: 237493
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.8 109.2#
 89 0.0 37.4 56.2#

