

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122322\
 Data File : VN075964.D
 Acq On : 23 Dec 2022 14:21
 Operator : JC\MD
 Sample : N6196-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-3049

Quant Time: Dec 26 04:33:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

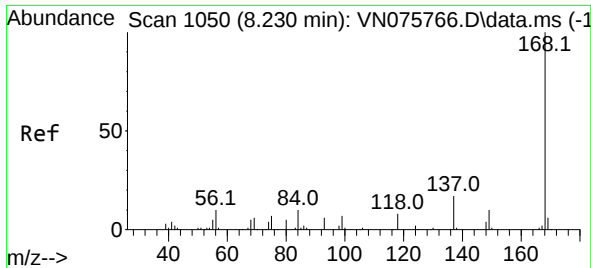
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	315862	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	512746	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	462004	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	198168	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	168998	49.180	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.360%		
35) Dibromofluoromethane	8.177	113	150328	47.342	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.680%		
50) Toluene-d8	10.571	98	605686	51.017	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.040%		
62) 4-Bromofluorobenzene	12.853	95	191493	48.698	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.400%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	994	2.044	ug/l #	72
16) Acetone	4.448	43	65388	55.201	ug/l	96
18) Methyl Acetate	5.048	43	2447	0.699	ug/l #	62
20) Methylene Chloride	5.295	84	15047	4.161	ug/l	93
25) 2-Butanone	7.494	43	21583	13.013	ug/l	96
29) Tetrahydrofuran	7.859	42	2115	2.035	ug/l #	89
31) Cyclohexane	8.230	56	6319	1.284	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	22676	5.376	ug/l #	42
37) Ethyl Acetate	7.571	43	33003	9.741	ug/l	99
38) Carbon Tetrachloride	8.236	117	30854	6.535	ug/l #	16
41) Methacrylonitrile	7.853	41	1284	0.729	ug/l #	30
42) 1,2-Dichloroethane	8.694	62	1230	0.284	ug/l #	72
43) Isopropyl Acetate	8.694	43	299662	53.615	ug/l #	73
45) 1,2-Dichloropropane	9.741	63	2457	0.776	ug/l #	43
48) Methyl methacrylate	9.671	41	4947	1.965	ug/l #	34
49) 1,4-Dioxane	9.747	88	85	1.373	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	18920	5.598	ug/l #	81
52) Toluene	10.641	92	4051	0.478	ug/l	94
53) t-1,3-Dichloropropene	10.730	75	1229	0.273	ug/l #	80
54) cis-1,3-Dichloropropene	10.365	75	68186	13.773	ug/l #	63
56) Ethyl methacrylate	10.994	69	1829	0.414	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8425	1.544	ug/l #	42
59) 2-Hexanone	11.177	43	151728	61.554	ug/l #	20
71) Bromoform	12.853	173	1475	0.577	ug/l #	1
74) N-amyl acetate	12.476	43	3065	0.730	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	100003	25.035	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	100003	90.112	ug/l #	12
90) Hexachloroethane	14.459	117	527	0.243	ug/l #	11
95) Naphthalene	15.647	128	2809	2.427	ug/l #	82

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

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QLast Update : Wed Dec 14 13:03:41 2022
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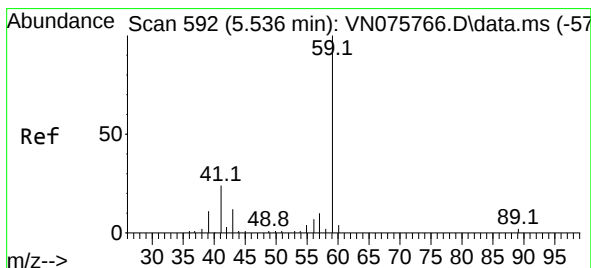
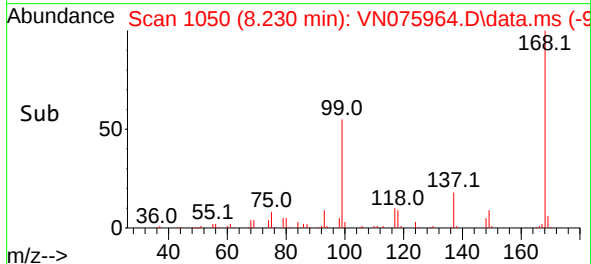
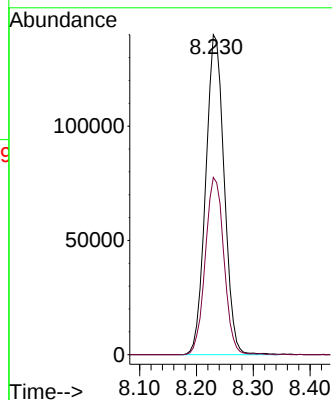
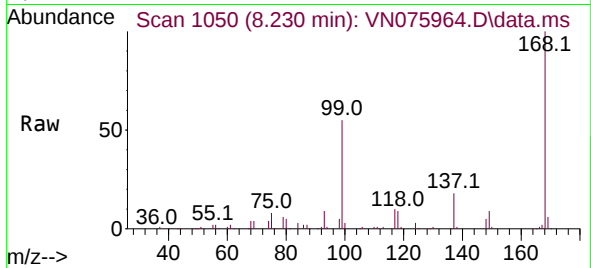




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

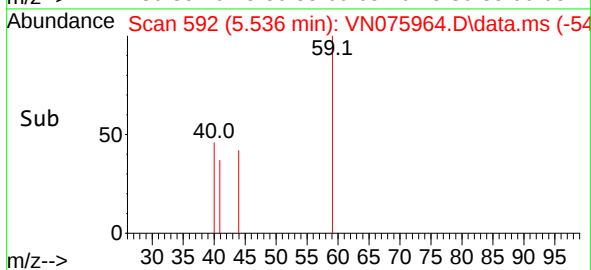
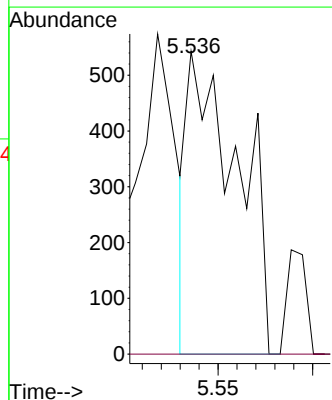
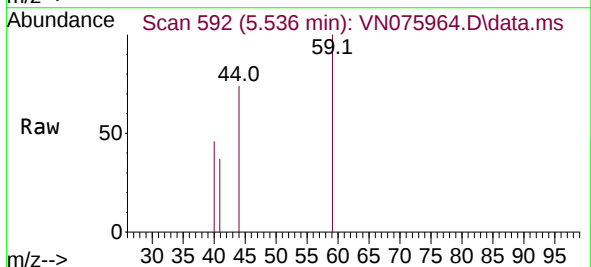
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

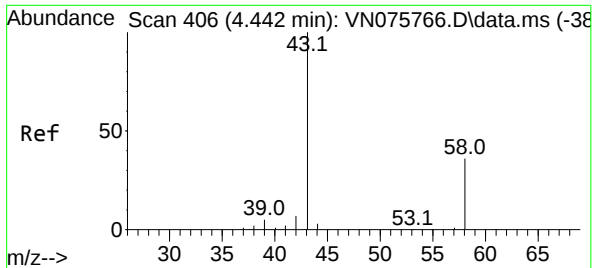
Tgt Ion:168 Resp: 315862
Ion Ratio Lower Upper
168 100
99 55.4 44.2 66.4



#11
Tert butyl alcohol
Concen: 2.044 ug/l
RT: 5.536 min Scan# 592
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 59 Resp: 994
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

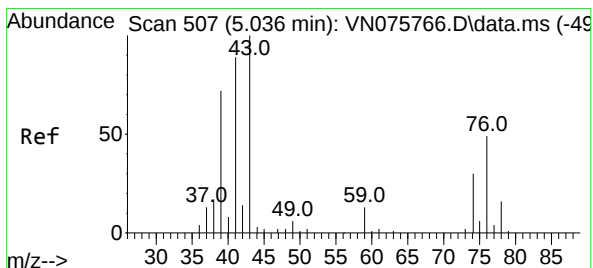
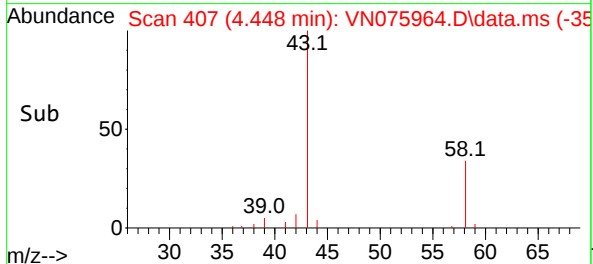
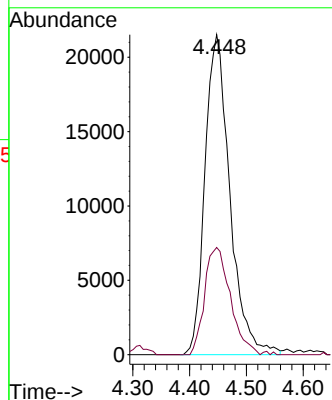
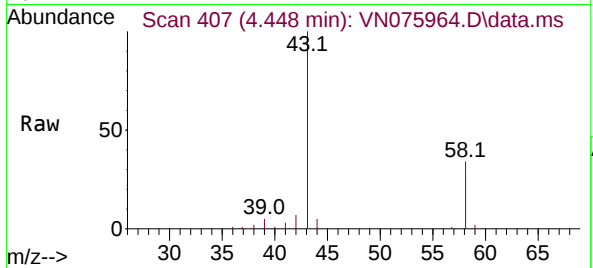




#16
Acetone
Concen: 55.201 ug/l
RT: 4.448 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

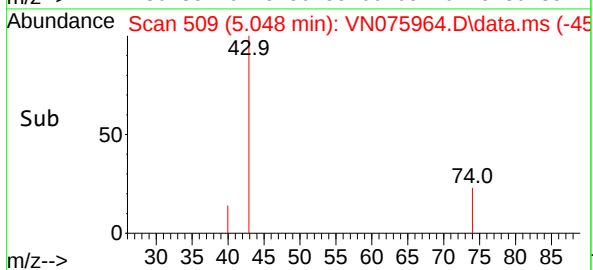
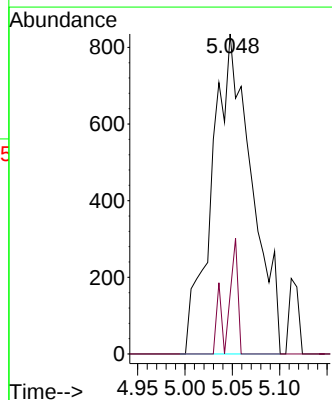
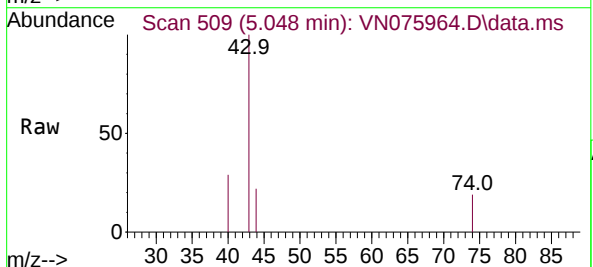
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

Tgt Ion: 43 Resp: 65388
Ion Ratio Lower Upper
43 100
58 33.5 28.6 43.0



#18
Methyl Acetate
Concen: 0.699 ug/l
RT: 5.048 min Scan# 509
Delta R.T. 0.012 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 43 Resp: 2447
Ion Ratio Lower Upper
43 100
74 9.3 23.6 35.4#

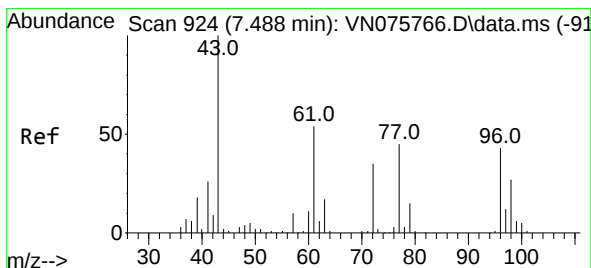
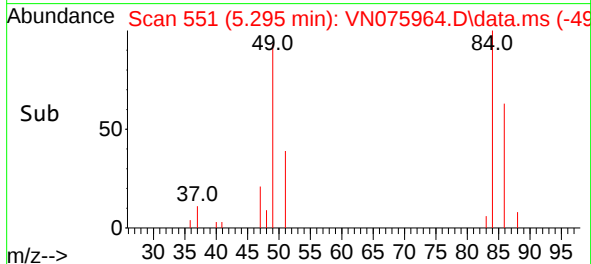
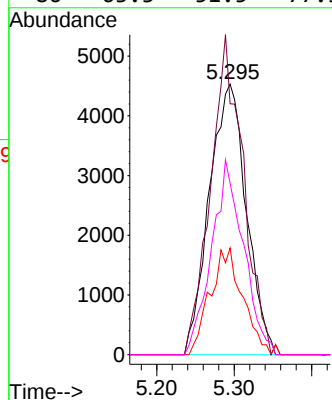
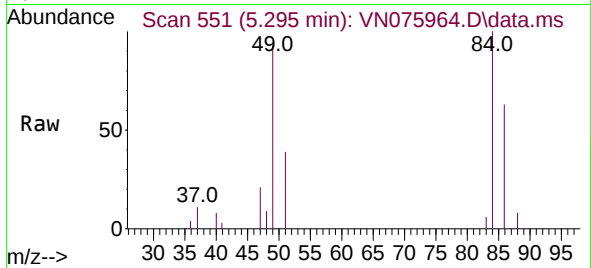




#20
Methylene Chloride
Concen: 4.161 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

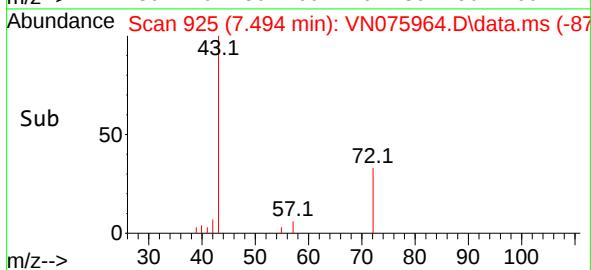
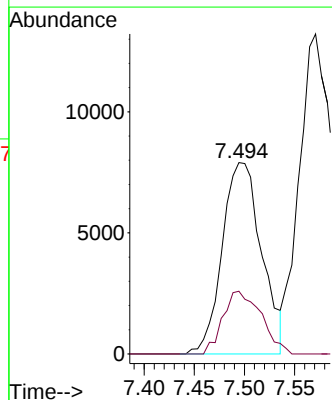
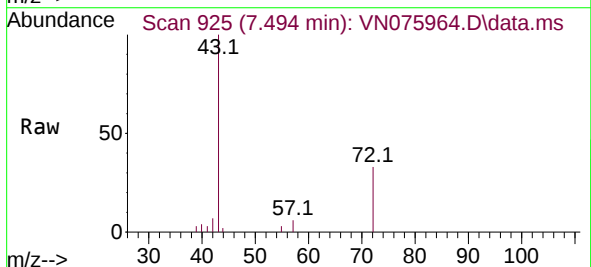
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

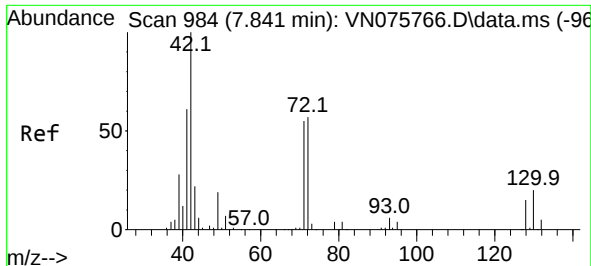
Tgt Ion: 84	Resp: 15047
Ion Ratio	Lower Upper
84 100	
49 92.7	81.8 122.6
51 39.4	26.7 40.1
86 63.3	51.5 77.3



#25
2-Butanone
Concen: 13.013 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 43	Resp: 21583
Ion Ratio	Lower Upper
43 100	
72 32.8	28.0 42.0





#29

Tetrahydrofuran

Concen: 2.035 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

Instrument :

MSVOA_N

ClientSampleId :

COMP-3049

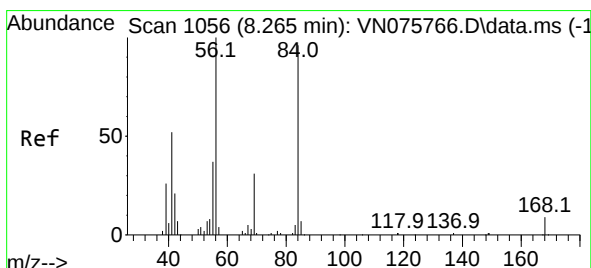
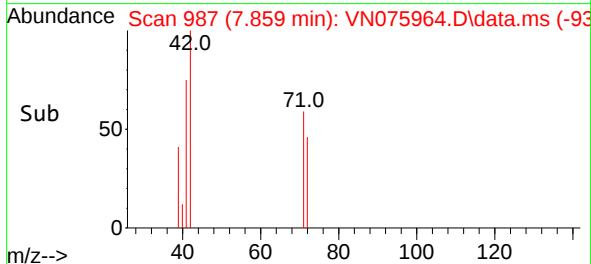
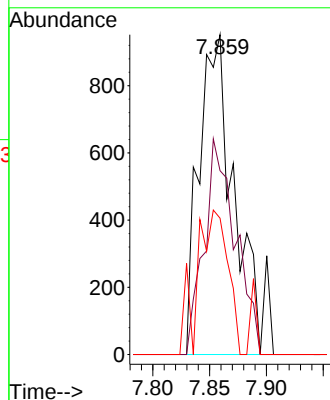
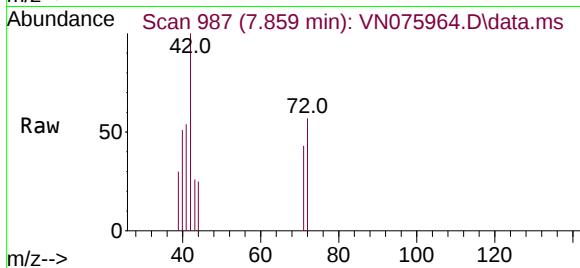
Tgt Ion: 42 Resp: 2115

Ion Ratio Lower Upper

42 100

72 58.0 44.5 66.7

71 38.3 41.0 61.6#



#31

Cyclohexane

Concen: 1.284 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

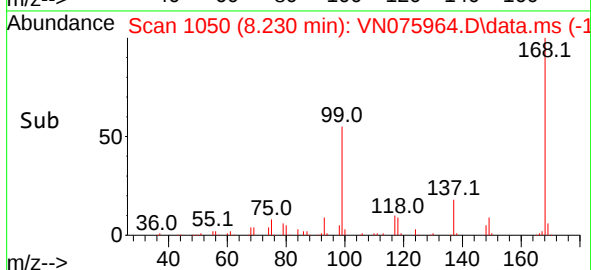
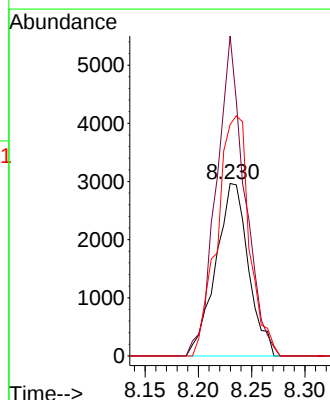
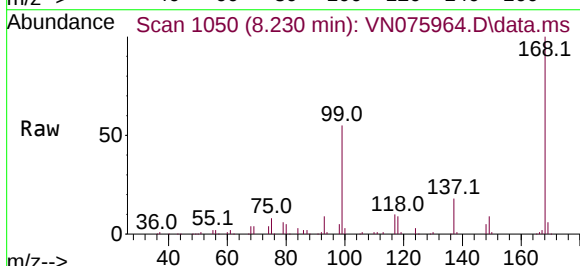
Tgt Ion: 56 Resp: 6319

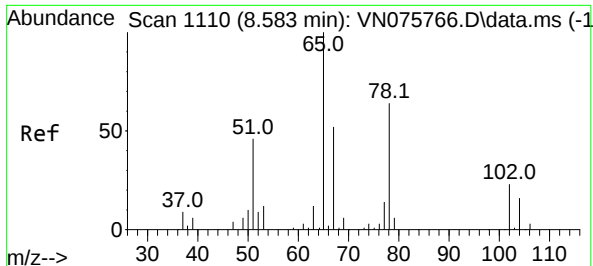
Ion Ratio Lower Upper

56 100

69 185.6 24.7 37.1#

84 134.2 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 49.180 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

Instrument :

MSVOA_N

ClientSampleId :

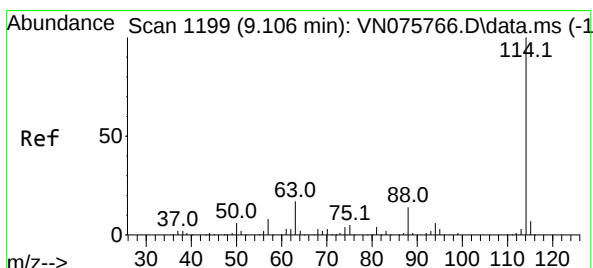
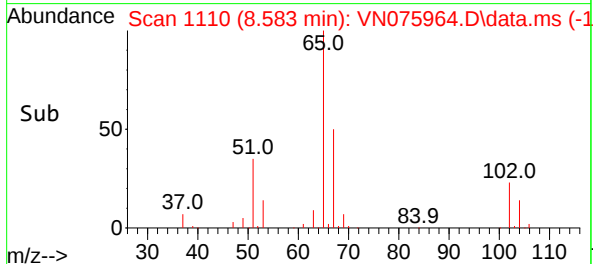
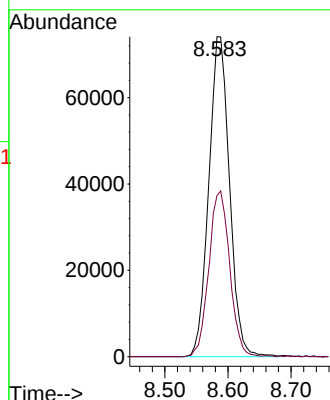
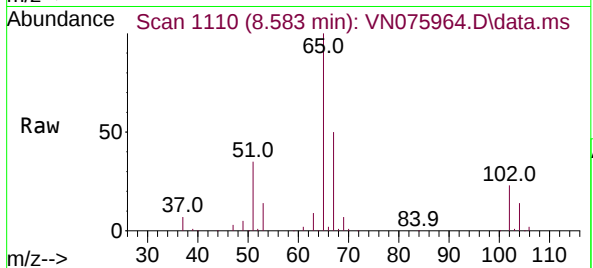
COMP-3049

Tgt Ion: 65 Resp: 168998

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

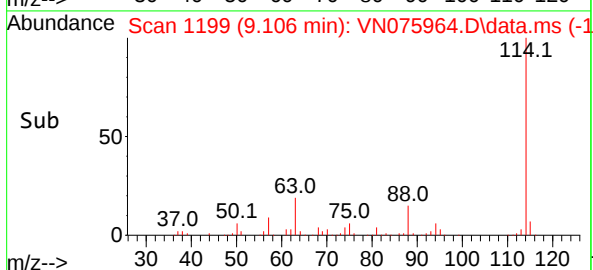
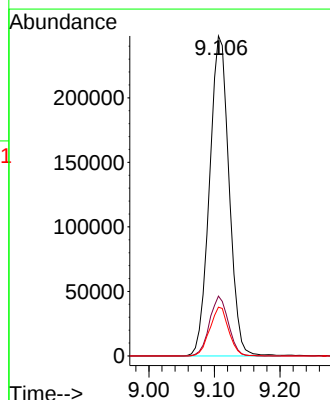
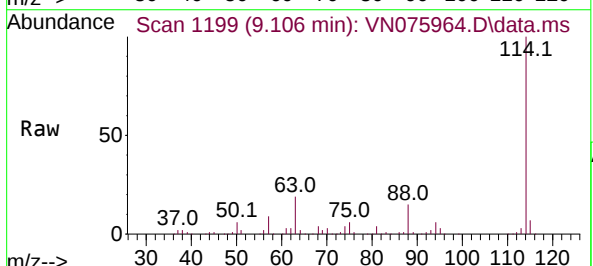
Tgt Ion: 114 Resp: 512746

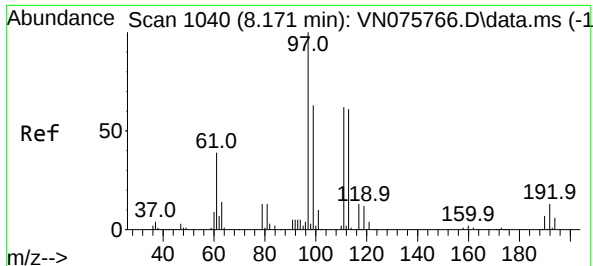
Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.4

88 15.2 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.342 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

Instrument :

MSVOA_N

ClientSampleId :

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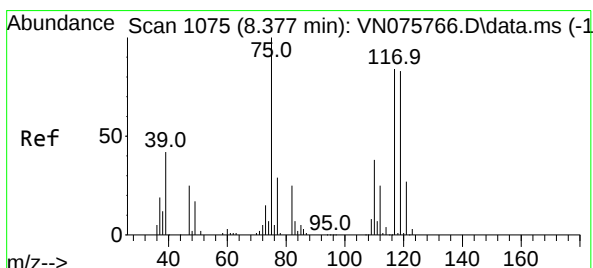
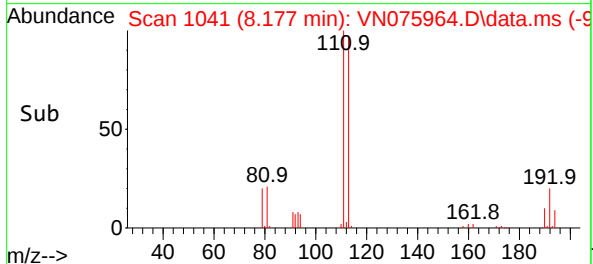
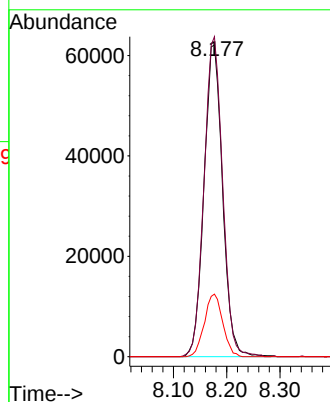
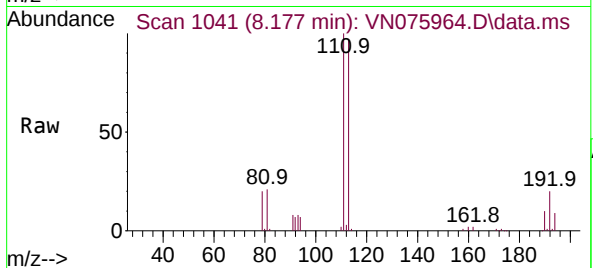
Tgt Ion:113 Resp: 150328

Ion Ratio Lower Upper

113 100

111 102.5 83.4 125.2

192 19.8 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.376 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

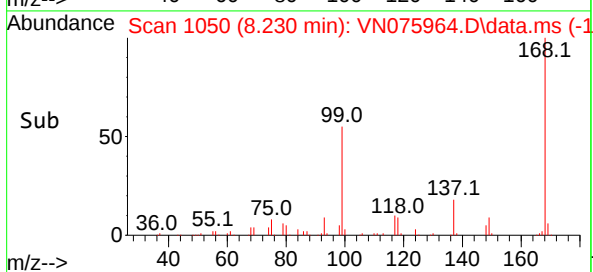
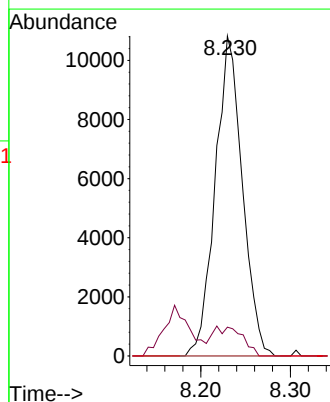
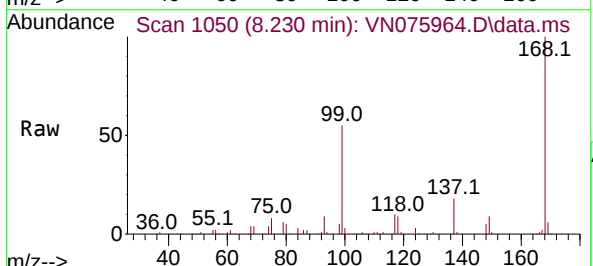
Tgt Ion: 75 Resp: 22676

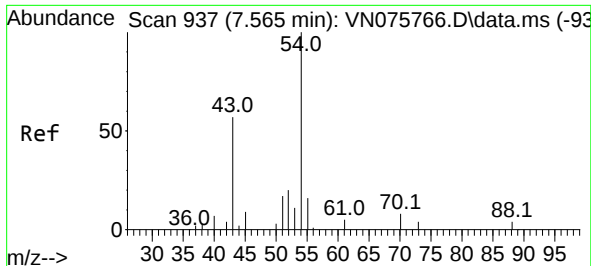
Ion Ratio Lower Upper

75 100

110 1.9 18.8 56.4#

77 0.0 24.1 36.1#

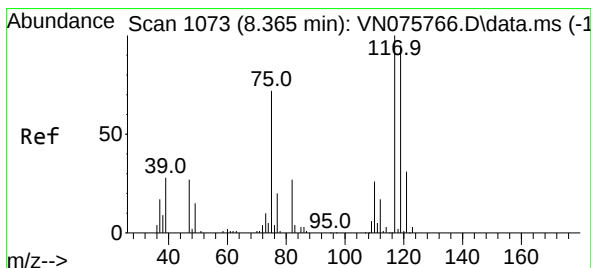
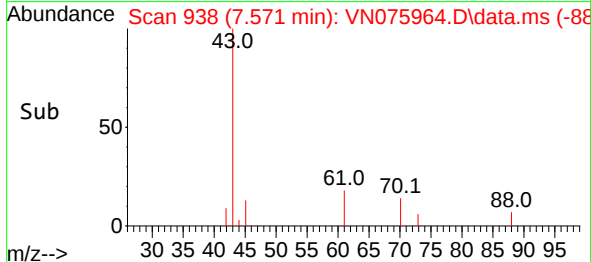
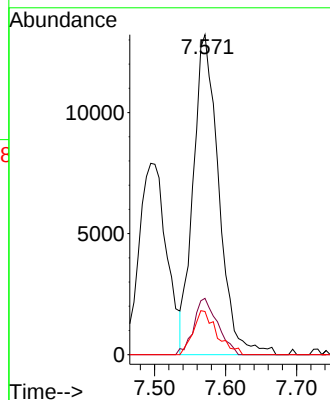
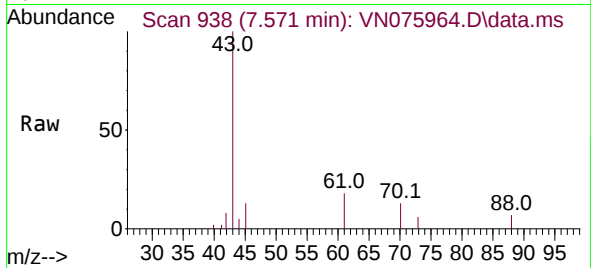




#37
Ethyl Acetate
Concen: 9.741 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

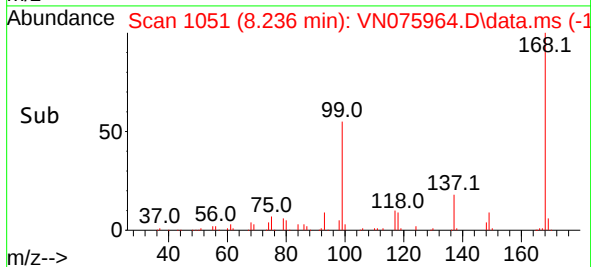
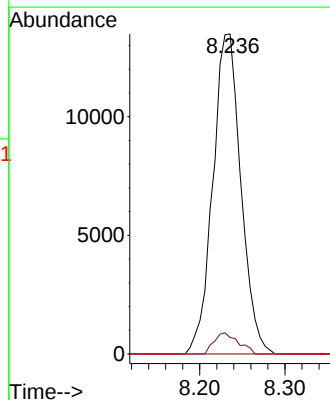
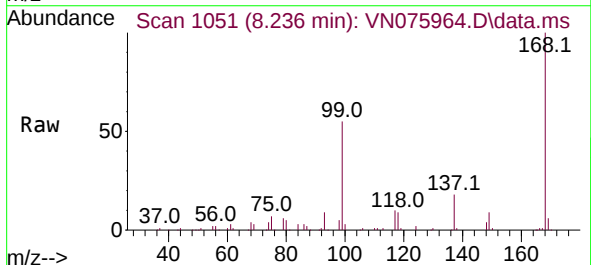
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

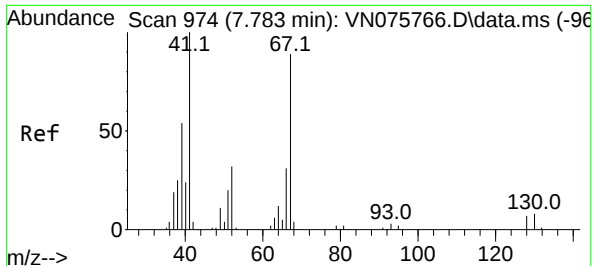
Tgt Ion: 43 Resp: 33003
Ion Ratio Lower Upper
43 100
61 16.4 13.0 19.4
70 12.7 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.535 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 117 Resp: 30854
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.5 36.7#

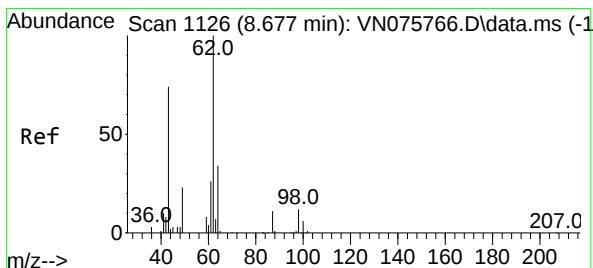
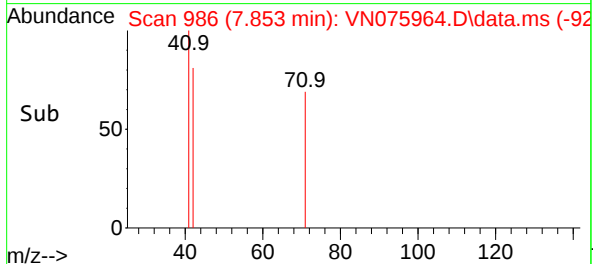
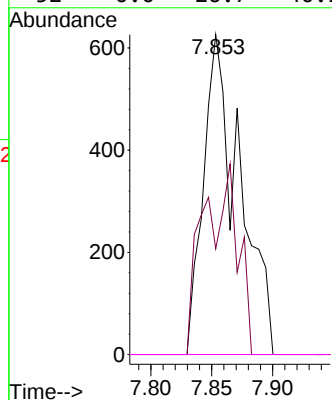
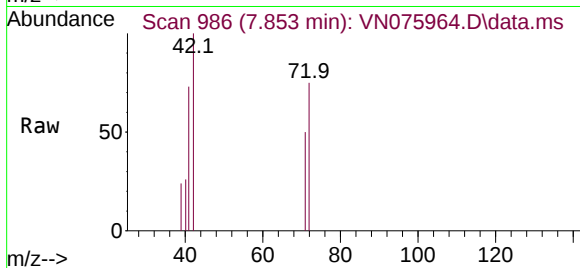




#41
Methacrylonitrile
Concen: 0.729 ug/l
RT: 7.853 min Scan# 91
Delta R.T. 0.071 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

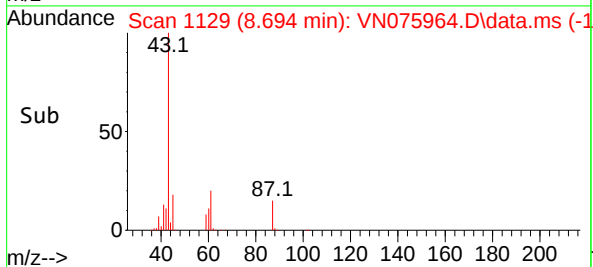
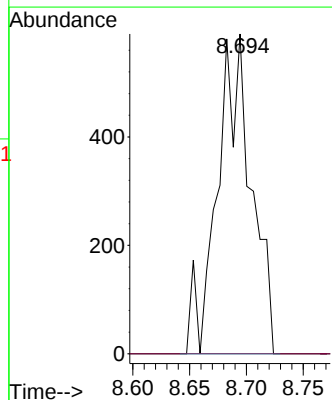
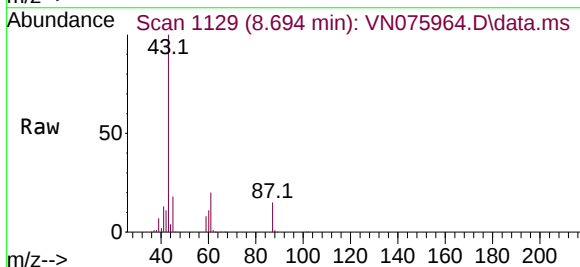
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

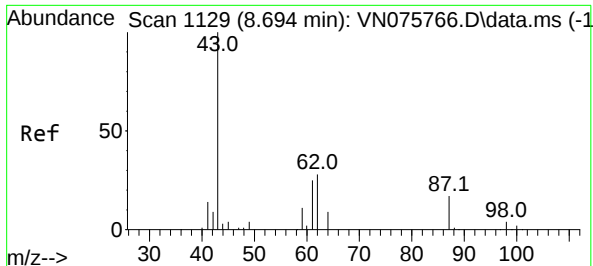
Tgt Ion: 41 Resp: 1284
Ion Ratio Lower Upper
41 100
39 28.1 43.1 64.7#
67 0.0 70.7 106.1#
52 0.0 26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.284 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.018 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 62 Resp: 1230
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8

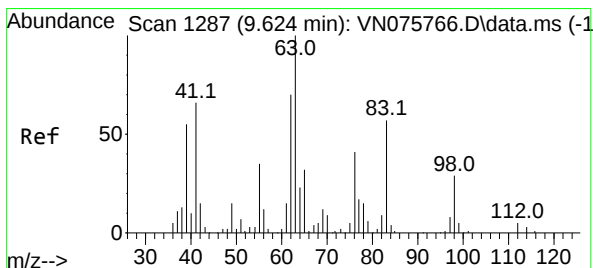
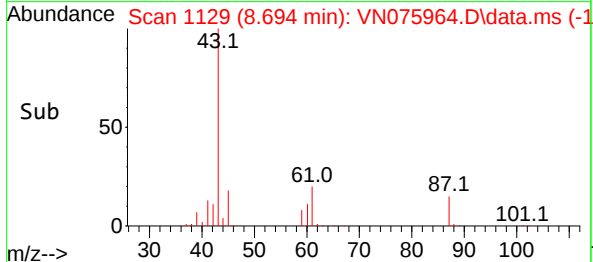
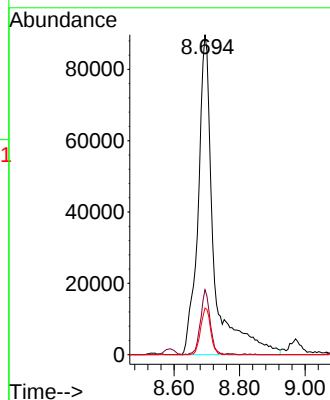
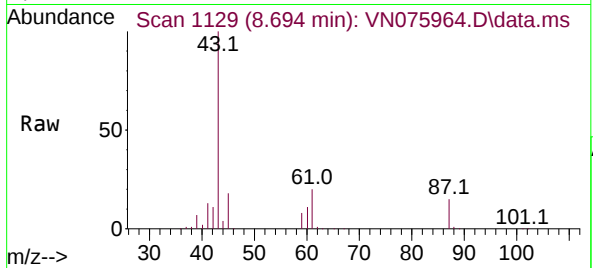




#43
Isopropyl Acetate
Concen: 53.615 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

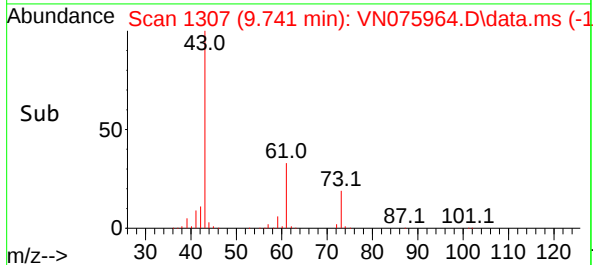
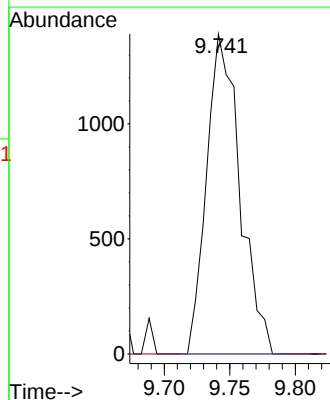
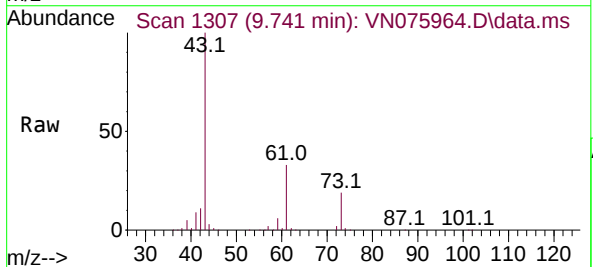
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

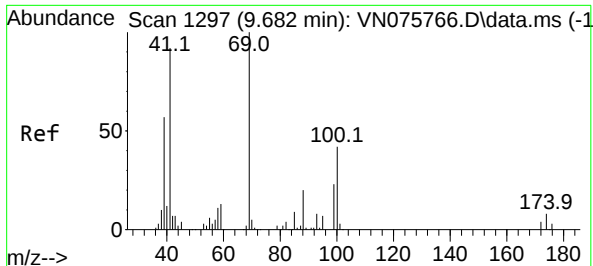
Tgt Ion: 43 Resp: 299662
Ion Ratio Lower Upper
43 100
61 12.4 24.2 36.4#
87 9.2 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.776 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 63 Resp: 2457
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

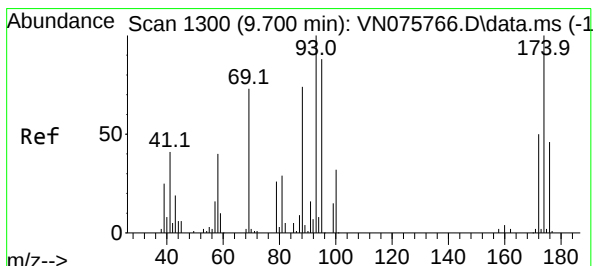
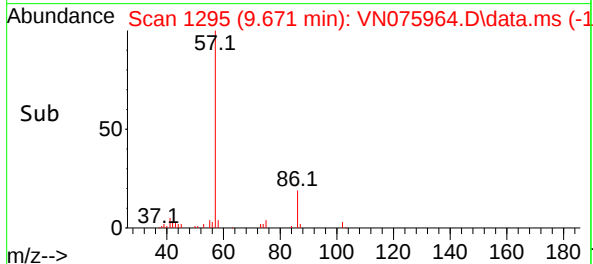
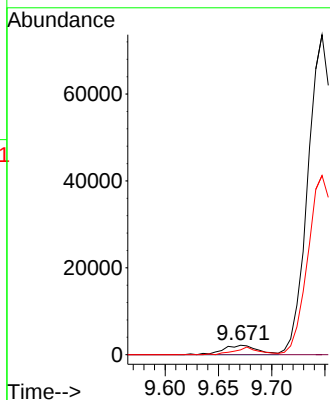
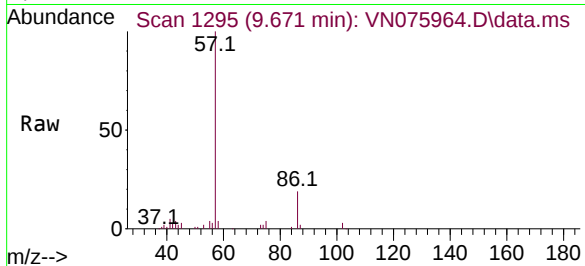




#48
Methyl methacrylate
Concen: 1.965 ug/l
RT: 9.671 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

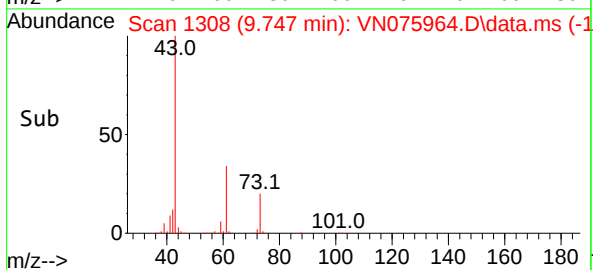
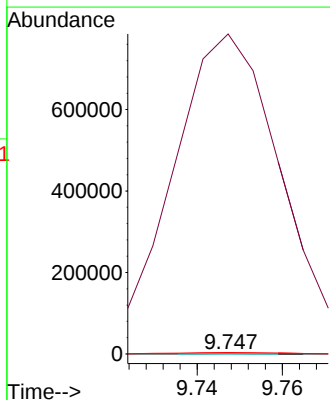
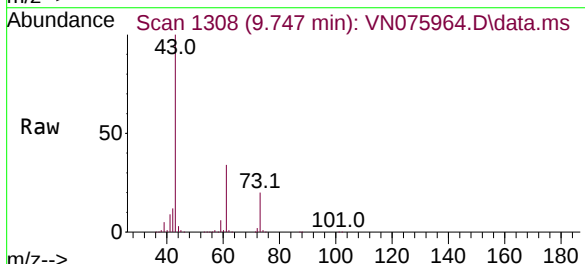
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

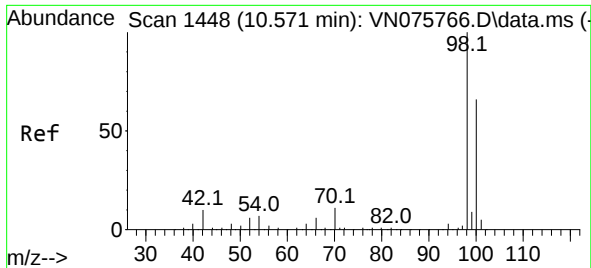
Tgt Ion: 41 Resp: 4947
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 57.1 51.6 77.4



#49
1,4-Dioxane
Concen: 1.373 ug/l
RT: 9.747 min Scan# 1308
Delta R.T. 0.047 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 88 Resp: 85
Ion Ratio Lower Upper
88 100
43 1682767.1 17.1 25.7#
58 7908.2 47.8 71.8#

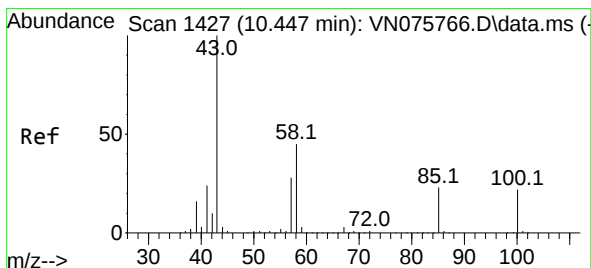
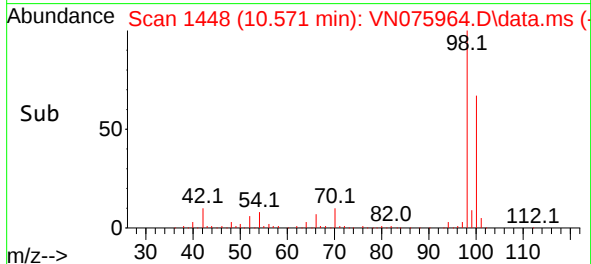
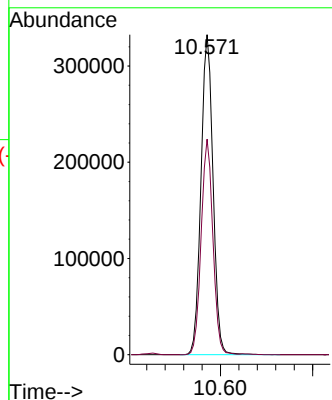
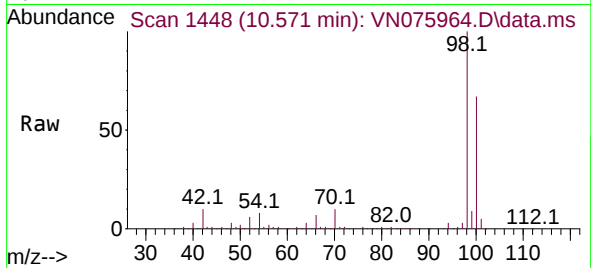




#50
Toluene-d8
Concen: 51.017 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

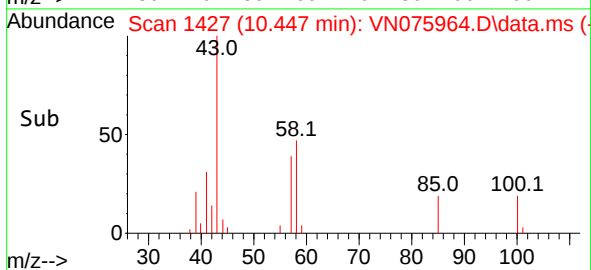
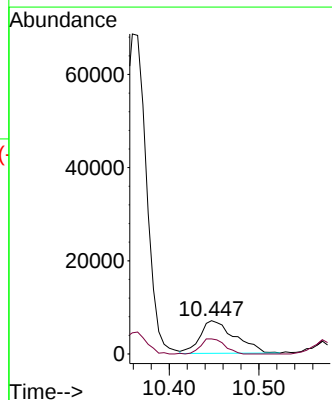
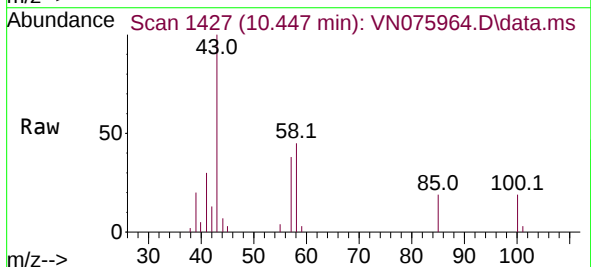
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

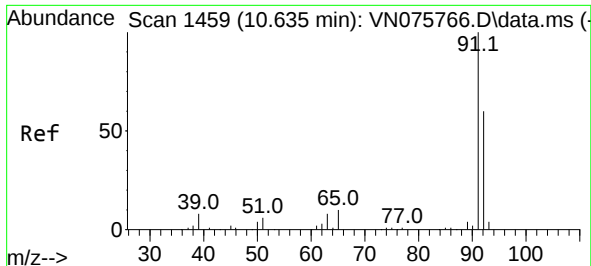
Tgt Ion: 98 Resp: 605686
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 5.598 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 43 Resp: 18920
Ion Ratio Lower Upper
43 100
58 31.8 35.5 53.3#

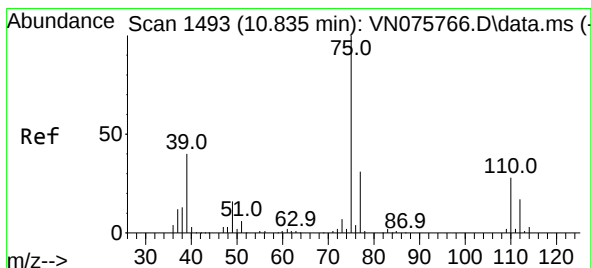
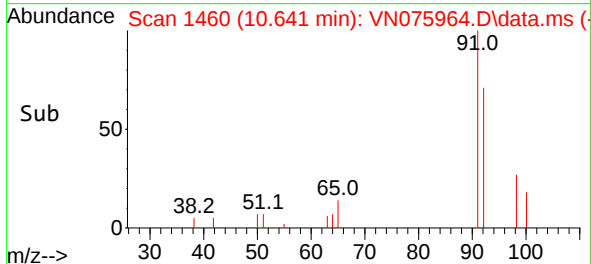
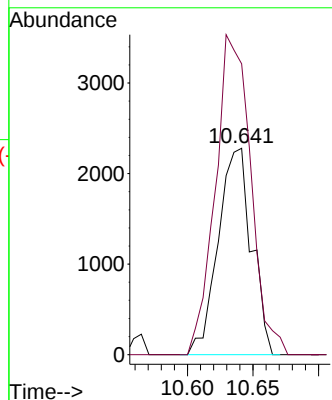
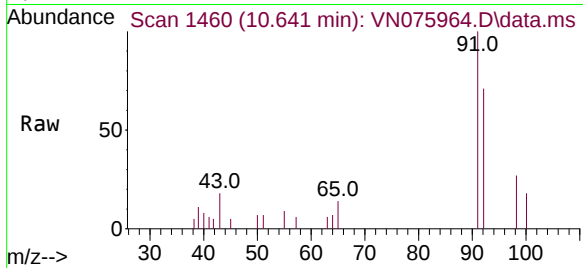




#52
Toluene
Concen: 0.478 ug/l
RT: 10.641 min Scan# 1459
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

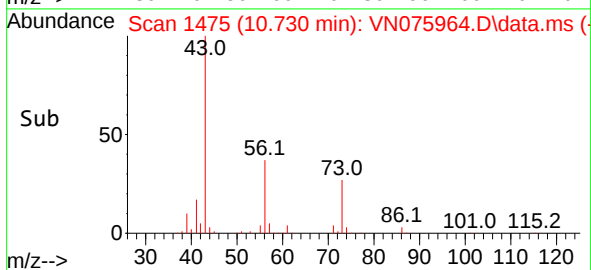
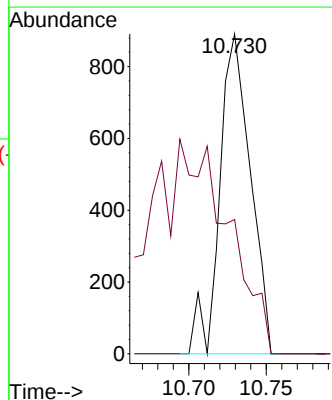
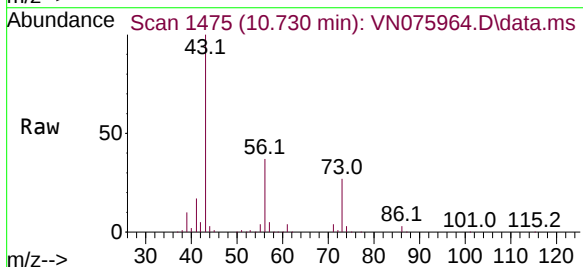
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

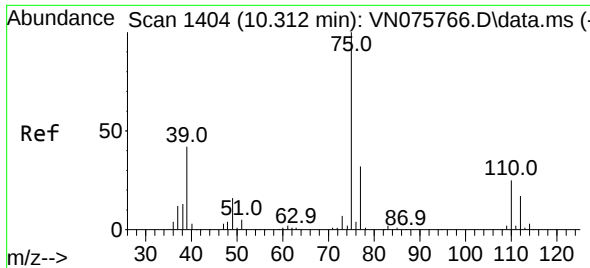
Tgt Ion: 92 Resp: 4051
Ion Ratio Lower Upper
92 100
91 163.7 137.3 205.9



#53
t-1,3-Dichloropropene
Concen: 0.273 ug/l
RT: 10.730 min Scan# 1475
Delta R.T. -0.106 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 75 Resp: 1229
Ion Ratio Lower Upper
75 100
77 42.0 24.9 37.3#

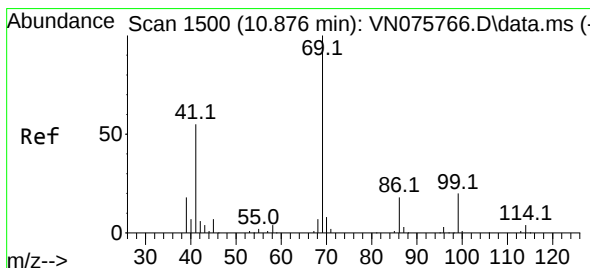
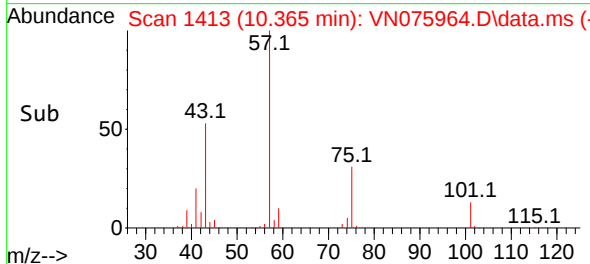
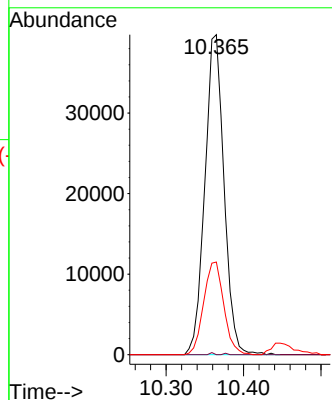
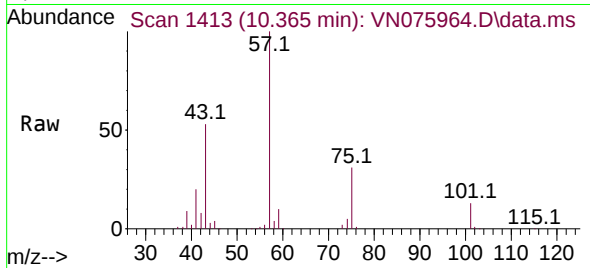




#54
 cis-1,3-Dichloropropene
 Concen: 13.773 ug/l
 RT: 10.365 min Scan# 1404
 Delta R.T. 0.053 min
 Lab File: VN075964.D
 Acq: 23 Dec 2022 14:21

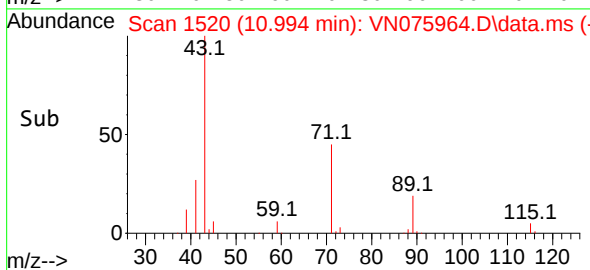
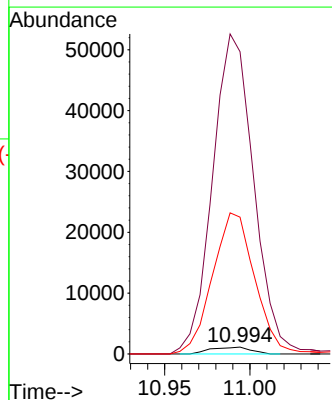
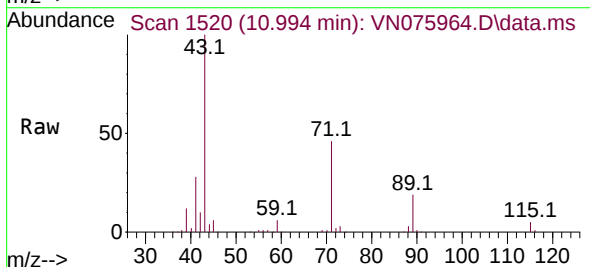
Instrument :
 MSVOA_N
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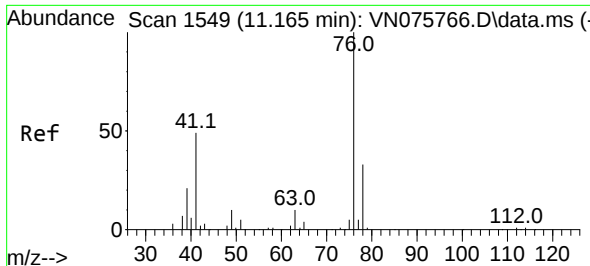
Tgt Ion: 75 Resp: 68186
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#
 39 29.0 33.4 50.2#



#56
 Ethyl methacrylate
 Concen: 0.414 ug/l
 RT: 10.994 min Scan# 1520
 Delta R.T. 0.118 min
 Lab File: VN075964.D
 Acq: 23 Dec 2022 14:21

Tgt Ion: 69 Resp: 1829
 Ion Ratio Lower Upper
 69 100
 41 4865.3 44.2 66.4#
 39 2190.7 26.4 39.6#





#57

1,3-Dichloropropane

Concen: 1.544 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN075964.D

Acq: 23 Dec 2022 14:21

Instrument :

MSVOA_N

ClientSampleId :

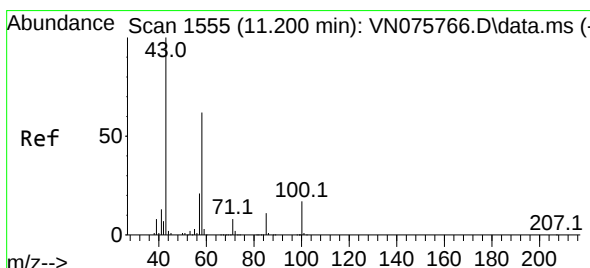
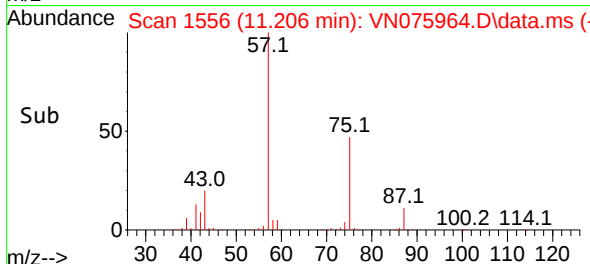
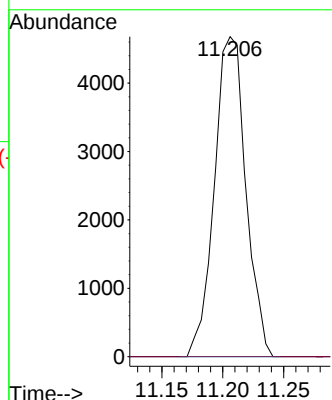
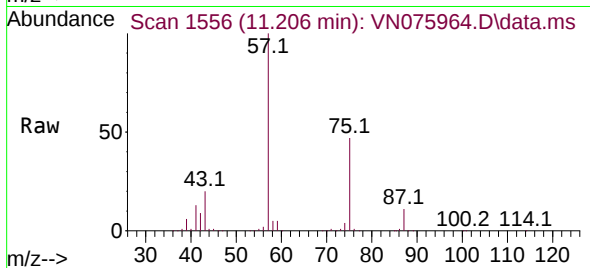
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Tgt Ion: 76 Resp: 8425

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 61.554 ug/l

RT: 11.177 min Scan# 1551

Delta R.T. -0.023 min

Lab File: VN075964.D

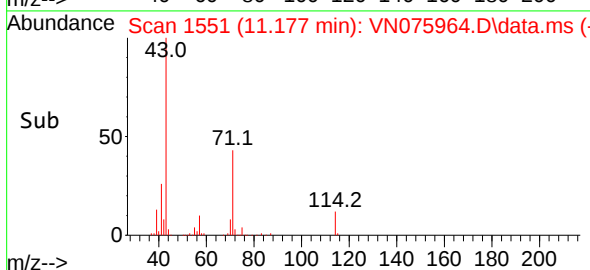
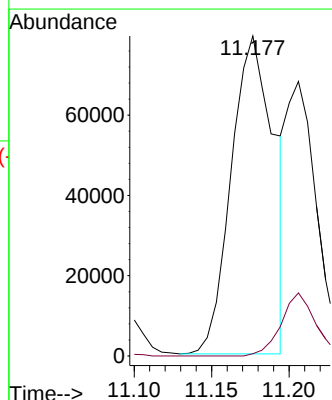
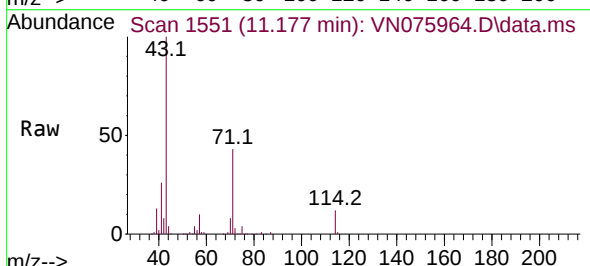
Acq: 23 Dec 2022 14:21

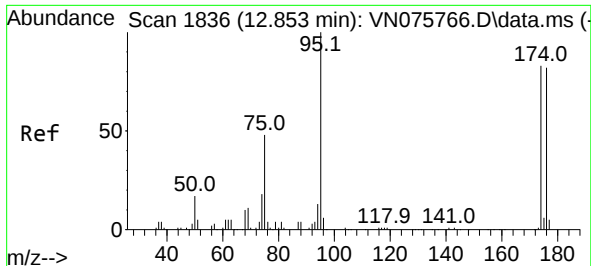
Tgt Ion: 43 Resp: 151728

Ion Ratio Lower Upper

43 100

58 0.0 30.6 92.0#

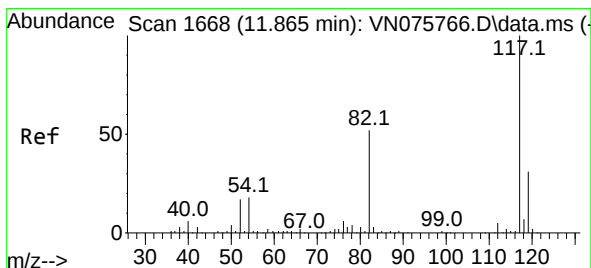
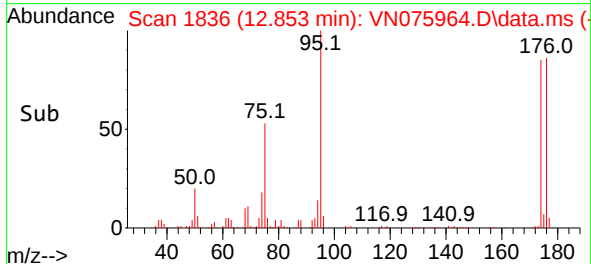
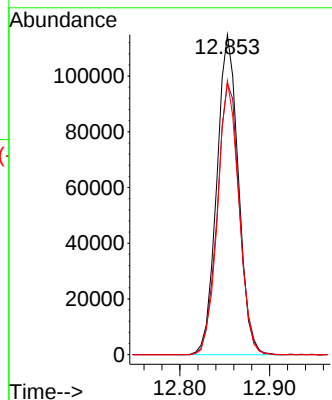
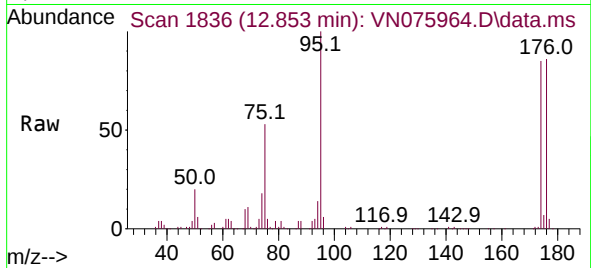




#62
4-Bromofluorobenzene
Concen: 48.698 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

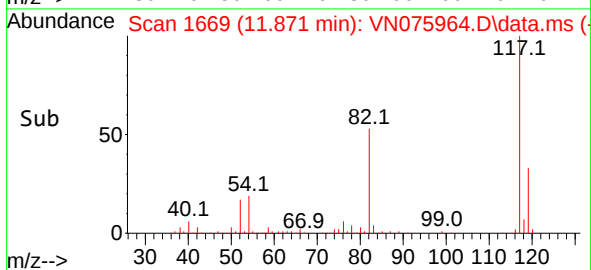
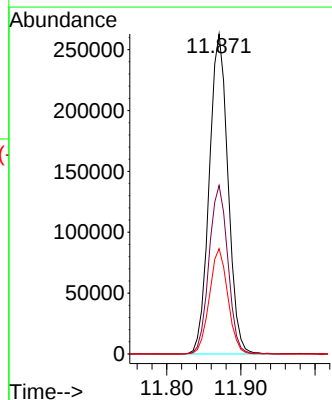
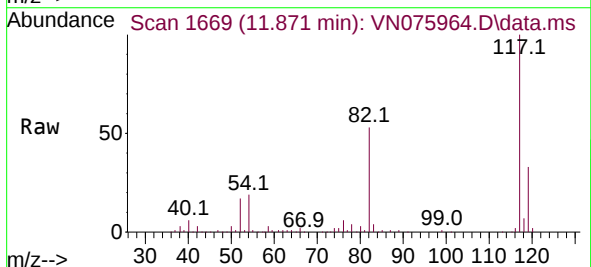
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

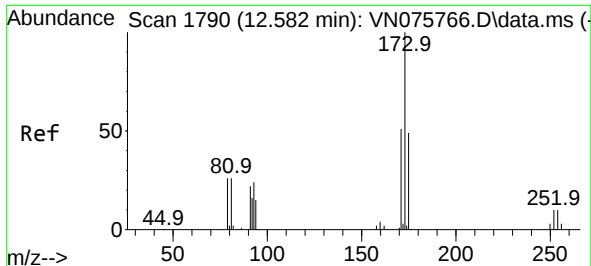
Tgt Ion: 95 Resp: 191493
Ion Ratio Lower Upper
95 100
174 87.0 0.0 171.6
176 84.3 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 117 Resp: 462004
Ion Ratio Lower Upper
117 100
82 52.7 41.3 61.9
119 32.9 24.6 37.0

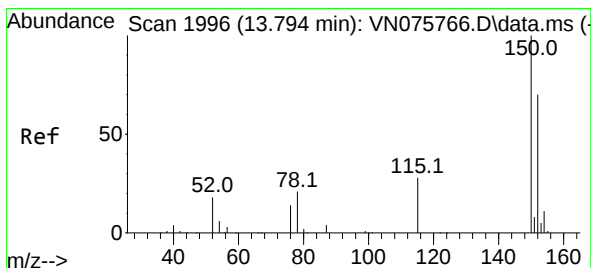
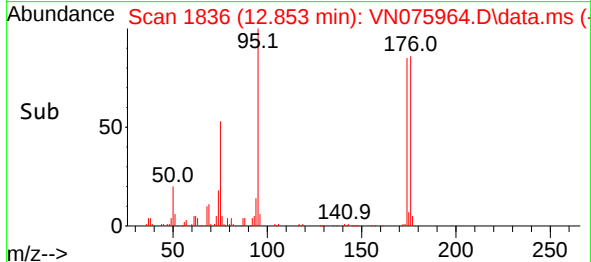
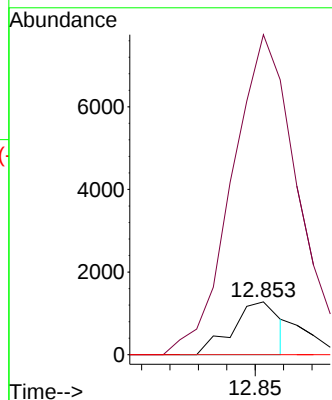
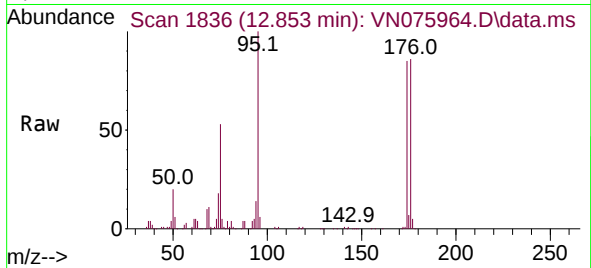




#71
Bromoform
Concen: 0.577 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

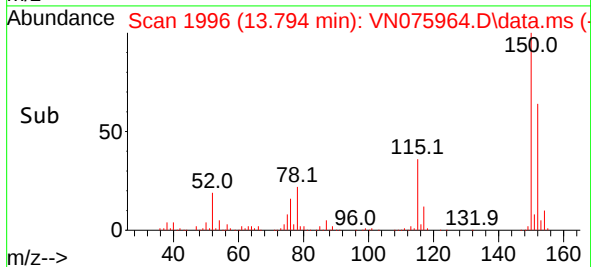
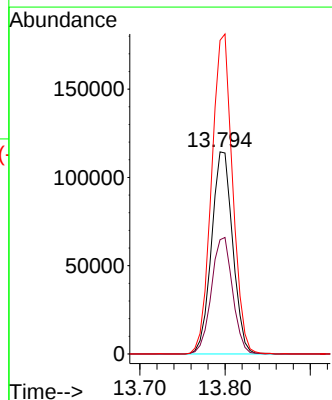
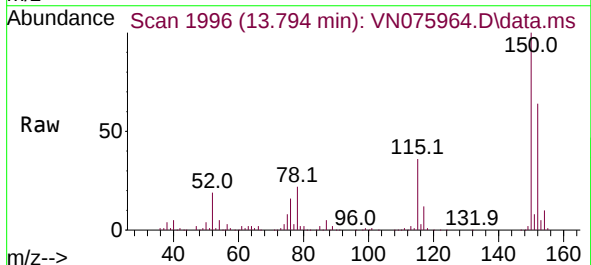
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

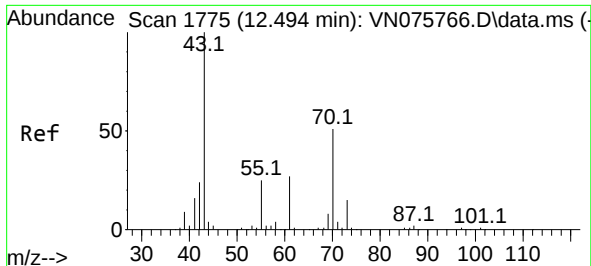
Tgt Ion:173 Resp: 1475
Ion Ratio Lower Upper
173 100
175 653.9 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion:152 Resp: 198168
Ion Ratio Lower Upper
152 100
115 57.6 29.1 87.4
150 156.5 0.0 347.0

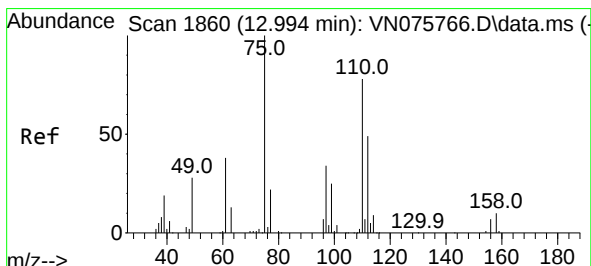
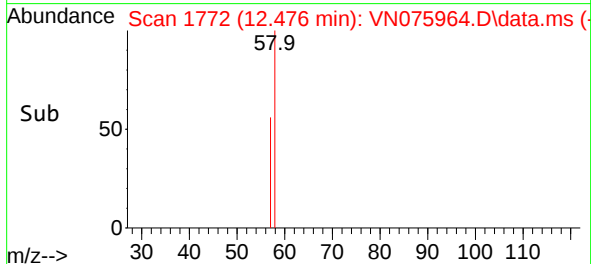
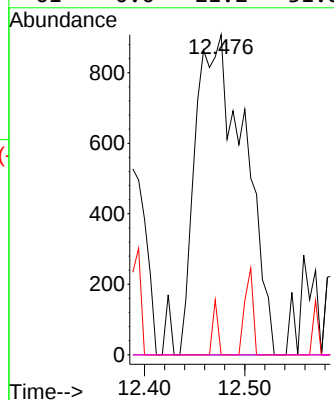
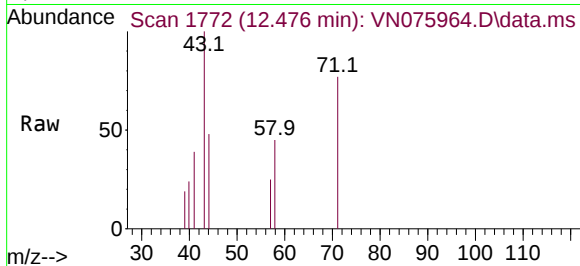




#74
N-amy1 acetate
Concen: 0.730 ug/l
RT: 12.476 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

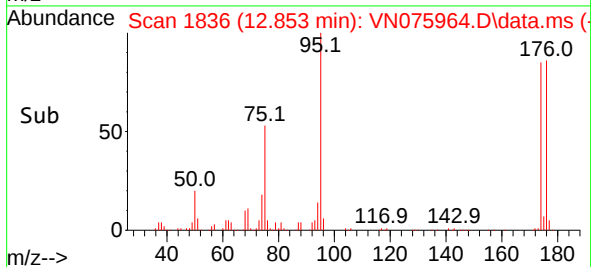
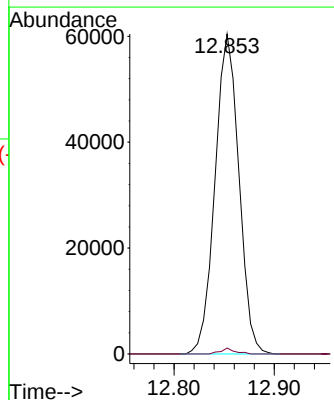
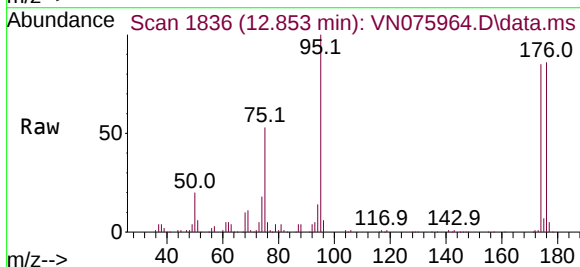
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

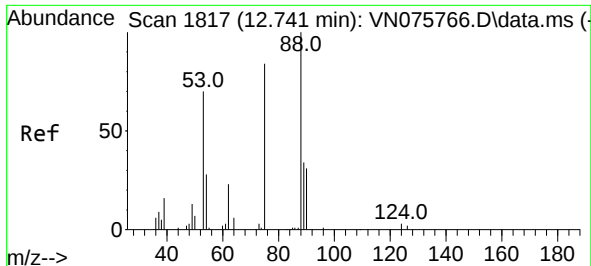
Tgt Ion: 43	Resp:	3065
Ion	Ratio	Lower Upper
43	100	
70	0.0	41.4 62.0#
55	0.0	21.3 31.9#
61	0.0	21.2 31.8#



#76
1,2,3-Trichloropropane
Concen: 25.035 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Tgt Ion: 75	Resp:	100003
Ion	Ratio	Lower Upper
75	100	
77	1.1	82.6 247.8#

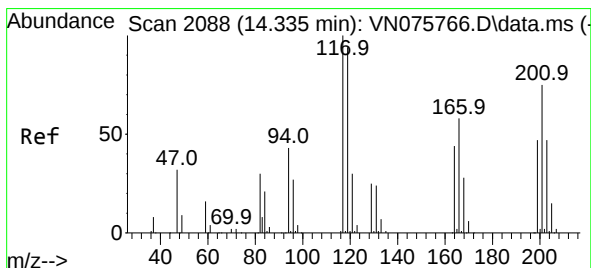
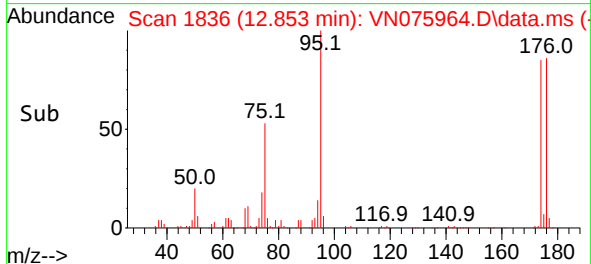
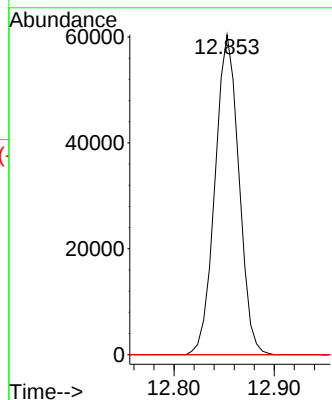
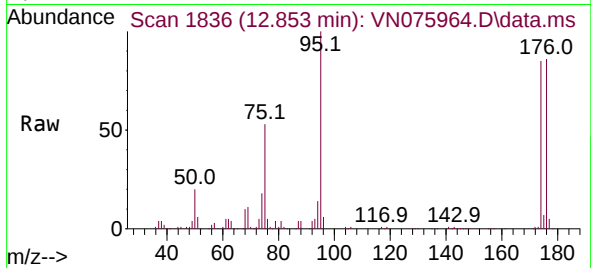




#81
trans-1,4-Dichloro-2-butene
Concen: 90.112 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

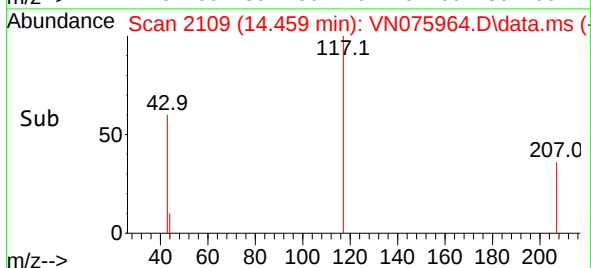
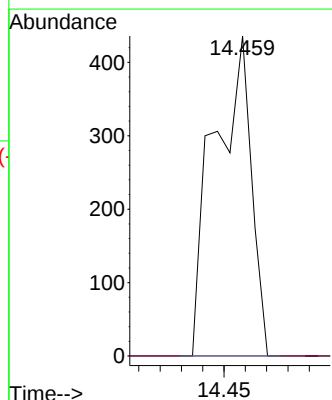
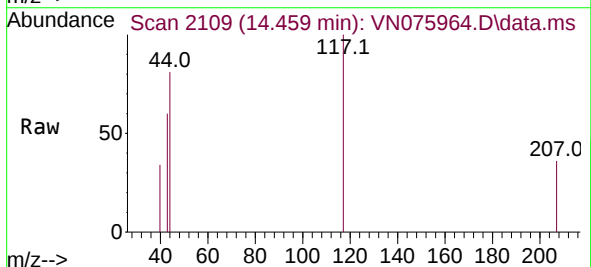
Instrument :
MSVOA_N
ClientSampleId :
COMP-3049

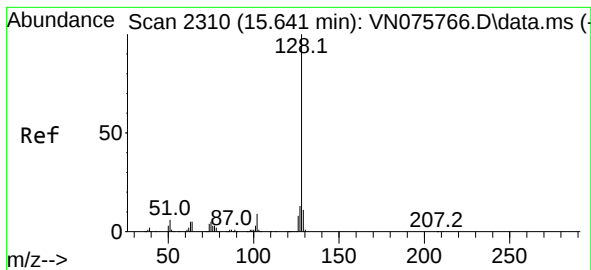
Tgt Ion: 75 Resp: 100003
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#90
Hexachloroethane
Concen: 0.243 ug/l
RT: 14.459 min Scan# 2109
Delta R.T. 0.124 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

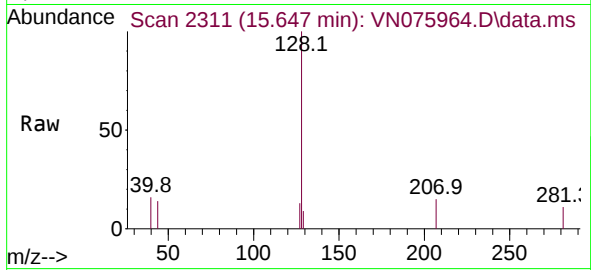
Tgt Ion: 117 Resp: 527
Ion Ratio Lower Upper
117 100
201 0.0 38.0 114.1#





#95
Naphthalene
Concen: 2.427 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN075964.D
Acq: 23 Dec 2022 14:21

Instrument :
MSVOA_N
ClientSampleId :
COMP-3049



Tgt Ion:128 Resp: 2809
Ion Ratio Lower Upper
128 100
127 5.3 10.4 15.6#
129 4.3 8.7 13.1#

