

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090922\
 Data File : VN074396.D
 Acq On : 10 Sep 2022 00:38
 Operator : JC\MD
 Sample : N4509-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_116D-20220902

Quant Time: Sep 10 07:30:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

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

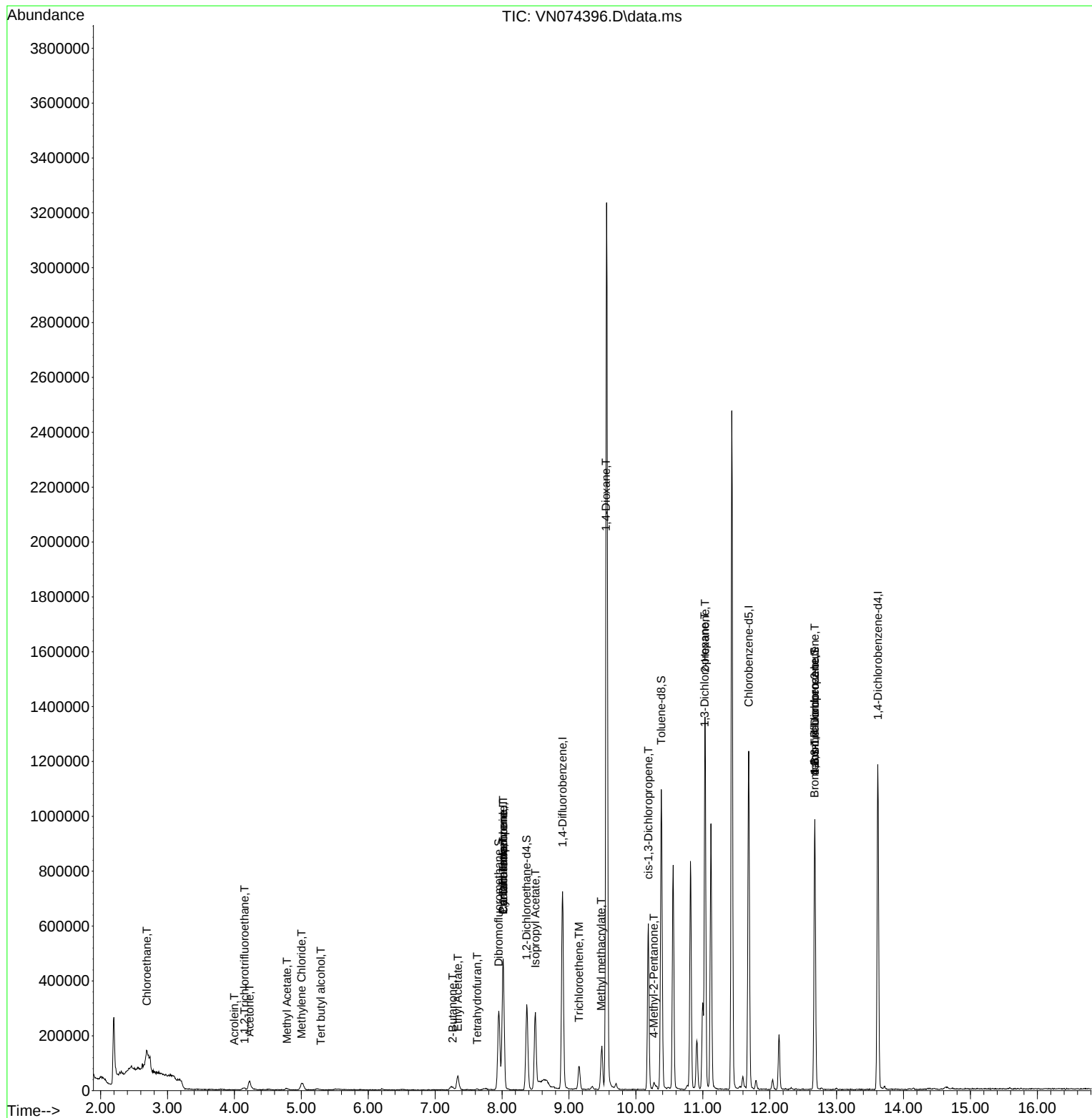
Internal Standards						
1) Pentafluorobenzene	8.016	168	333370	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	589895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	626562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	282332	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	238602	41.368	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	82.740%		
35) Dibromofluoromethane	7.951	113	195317	49.045	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.100%		
50) Toluene-d8	10.380	98	690201	44.480	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	88.960%		
62) 4-Bromofluorobenzene	12.674	95	292680	51.951	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.900%		
Target Compounds						Qvalue
3) Chloromethane	2.257	50	856	Below Cal	#	45
6) Chloroethane	2.693	64	35354	3.925	ug/l #	57
9) 1,1,2-Trichlorotrifluo...	4.151	101	4751	1.112	ug/l	89
11) Tert butyl alcohol	5.293	59	624	0.414	ug/l #	71
13) Acrolein	3.998	56	205	0.205	ug/l #	56
16) Acetone	4.228	43	54258	17.425	ug/l #	88
18) Methyl Acetate	4.787	43	12398	1.351	ug/l #	76
20) Methylene Chloride	5.004	84	18590	2.644	ug/l	92
25) 2-Butanone	7.263	43	9668	1.850	ug/l	91
29) Tetrahydrofuran	7.628	42	2261	0.654	ug/l #	77
31) Cyclohexane	8.016	56	9939	1.083	ug/l #	28
36) 1,1-Dichloropropene	8.016	75	32205	4.909	ug/l #	51
37) Ethyl Acetate	7.339	43	80461	8.454	ug/l	98
38) Carbon Tetrachloride	8.016	117	36792	5.432	ug/l #	15
43) Isopropyl Acetate	8.498	43	335635	21.565	ug/l #	90
44) Trichloroethene	9.151	130	27581	6.125	ug/l	96
48) Methyl methacrylate	9.480	41	10999	1.604	ug/l #	42
49) 1,4-Dioxane	9.551	88	137	0.948	ug/l #	25
51) 4-Methyl-2-Pentanone	10.269	43	15884	1.561	ug/l	99
54) cis-1,3-Dichloropropene	10.186	75	96205	11.241	ug/l #	65
57) 1,3-Dichloropropane	11.027	76	12659	1.414	ug/l #	45
59) 2-Hexanone	11.033	43	196350	24.998	ug/l #	52
71) Bromoform	12.669	173	1657	0.375	ug/l #	29
74) N-amyl acetate	12.321	43	2607	Below Cal	#	45
76) 1,2,3-Trichloropropane	12.674	75	181291	24.563	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	181291	54.750	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.545	75	82	Below Cal	#	8

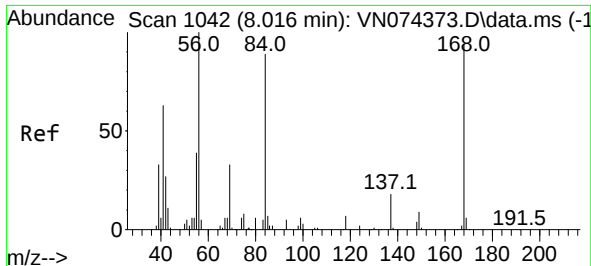
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090922\
Data File : VN074396.D
Acq On : 10 Sep 2022 00:38
Operator : JC\MD
Sample : N4509-13
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

Quant Time: Sep 10 07:30:13 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
Quant Title : SW846 8260
QLast Update : Sat Sep 10 06:10:29 2022
Response via : Initial Calibration

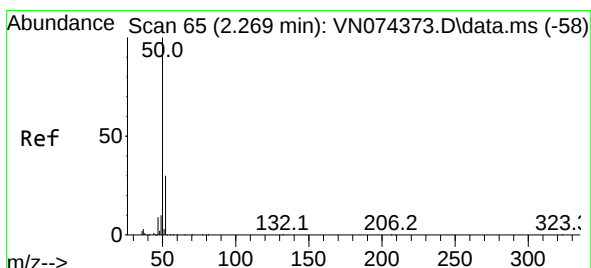
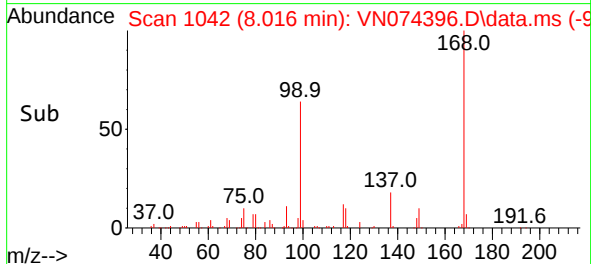
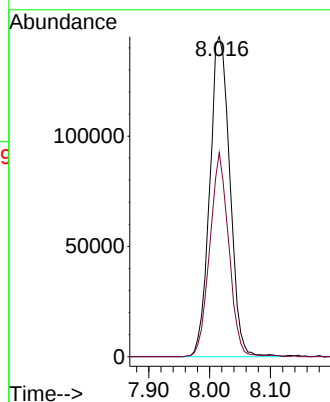
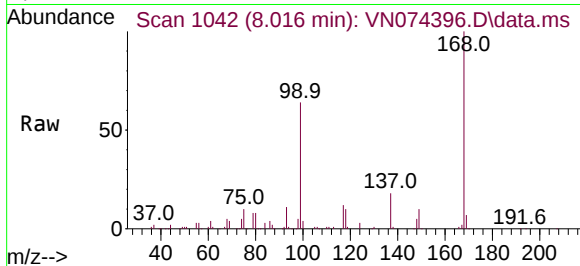




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

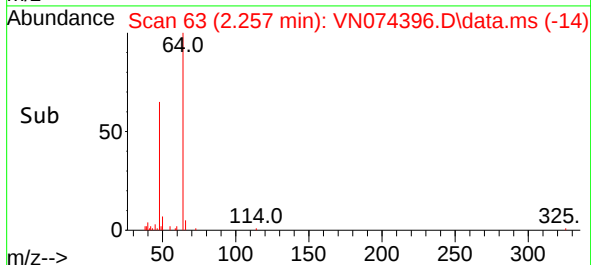
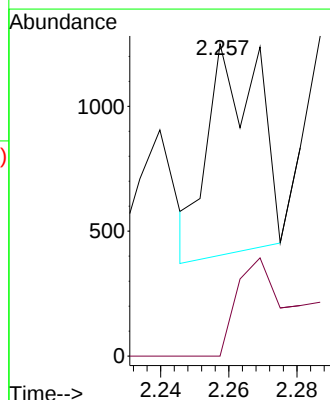
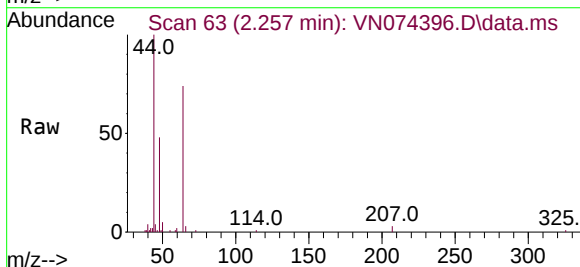
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

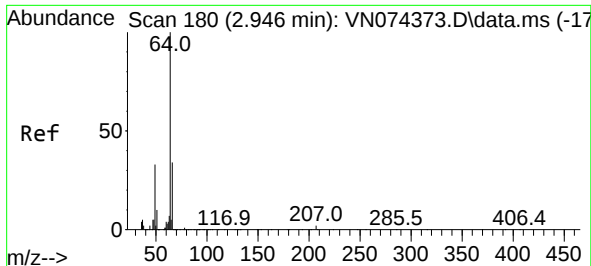
Tgt Ion:168 Resp: 333370
Ion Ratio Lower Upper
168 100
99 63.8 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.257 min Scan# 63
Delta R.T. -0.012 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 50 Resp: 856
Ion Ratio Lower Upper
50 100
52 0.0 24.1 36.1#

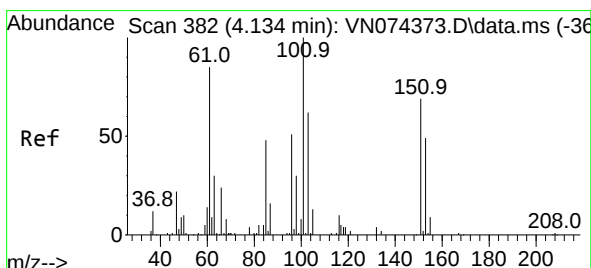
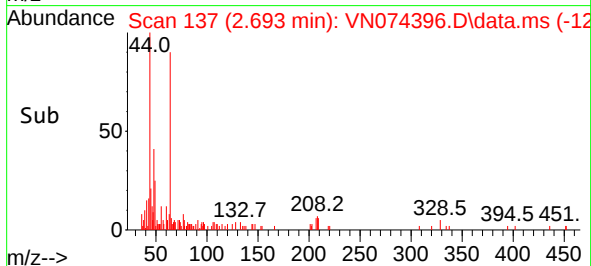
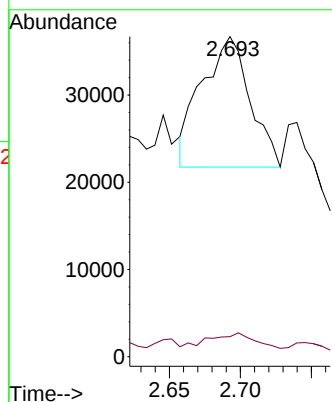
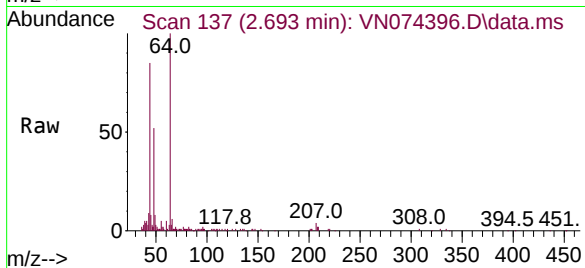




#6
Chloroethane
Concen: 3.925 ug/l
RT: 2.693 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

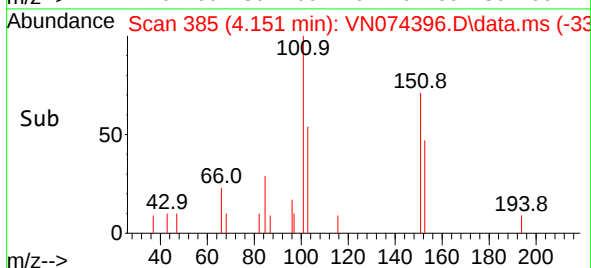
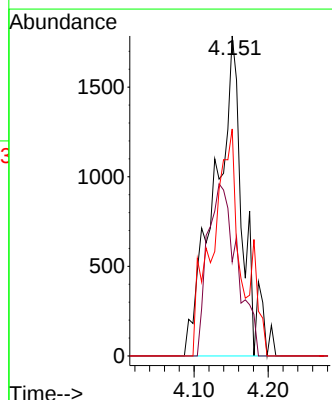
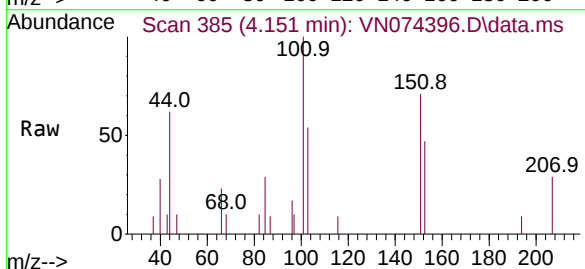
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

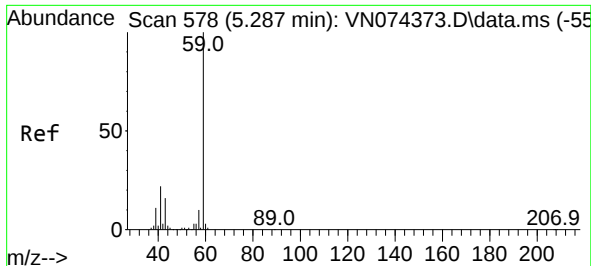
Tgt Ion: 64 Resp: 35354
Ion Ratio Lower Upper
64 100
66 8.9 26.5 39.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.112 ug/l
RT: 4.151 min Scan# 385
Delta R.T. 0.018 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 101 Resp: 4751
Ion Ratio Lower Upper
101 100
85 55.6 39.5 59.3
151 62.5 57.8 86.6

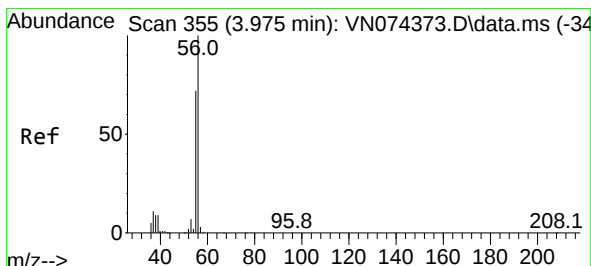
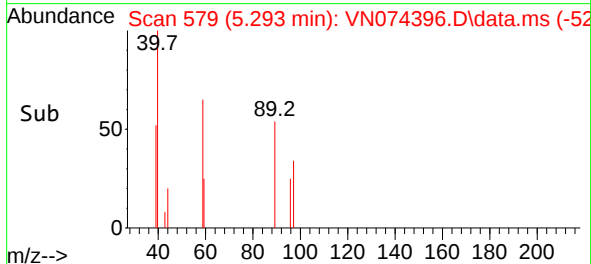
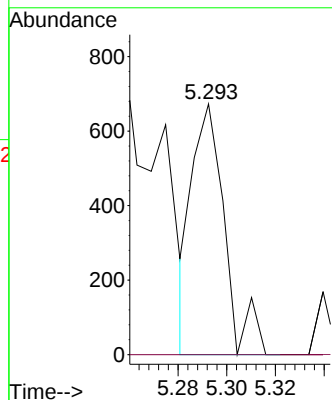
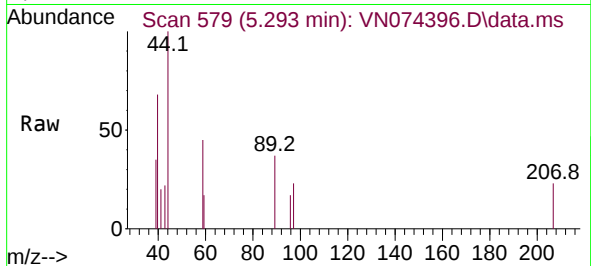




#11
Tert butyl alcohol
Concen: 0.414 ug/l
RT: 5.293 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

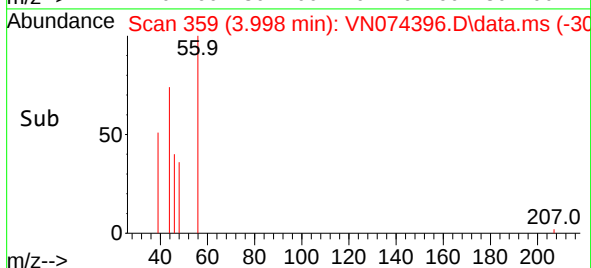
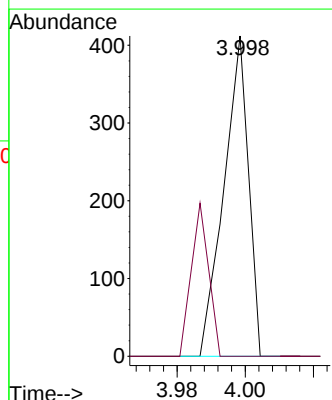
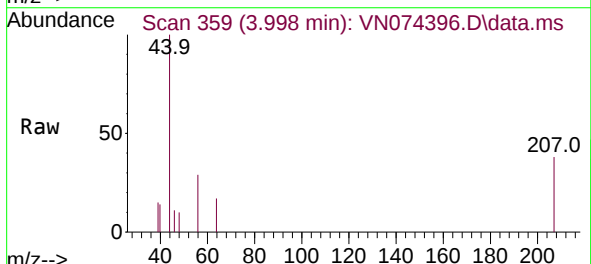
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

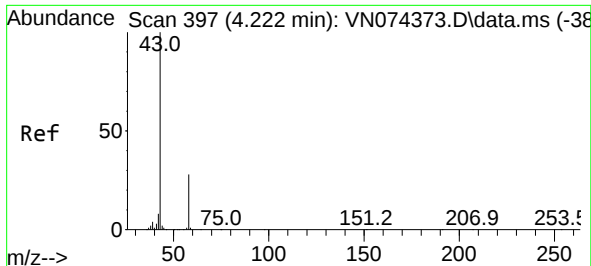
Tgt Ion: 59 Resp: 624
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#13
Acrolein
Concen: 0.205 ug/l
RT: 3.998 min Scan# 359
Delta R.T. 0.024 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 56 Resp: 205
Ion Ratio Lower Upper
56 100
55 34.1 56.2 84.4#

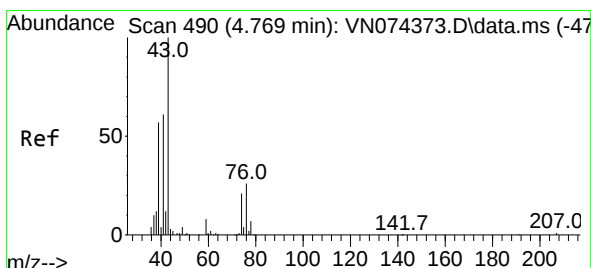
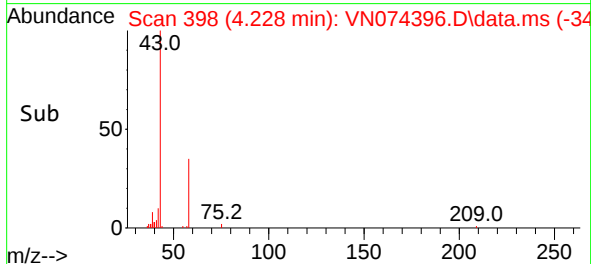
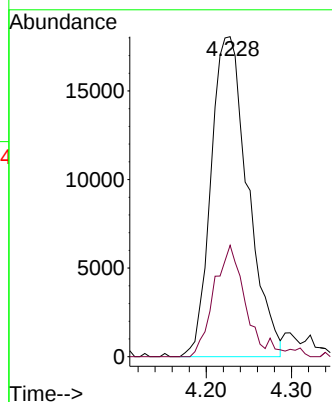
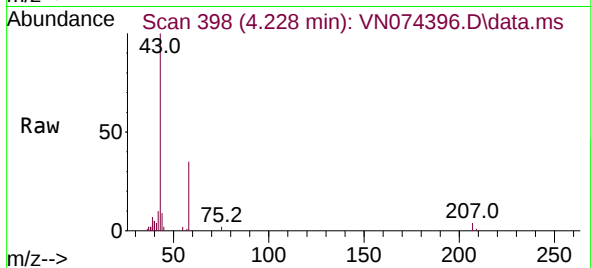




#16
Acetone
Concen: 17.425 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

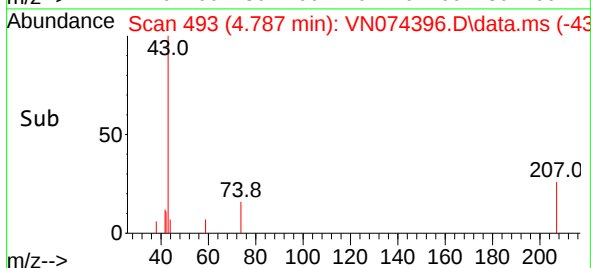
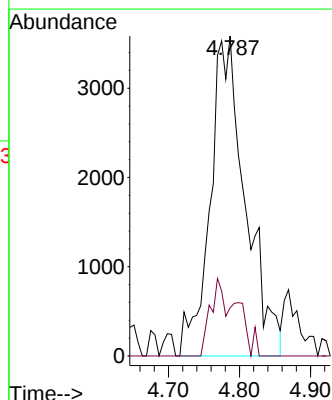
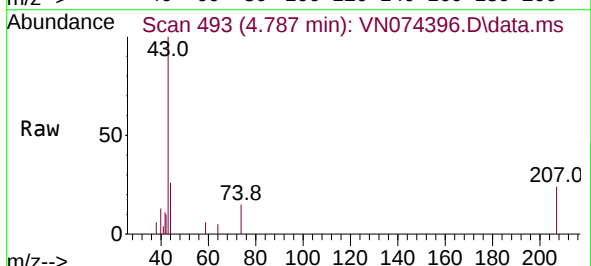
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

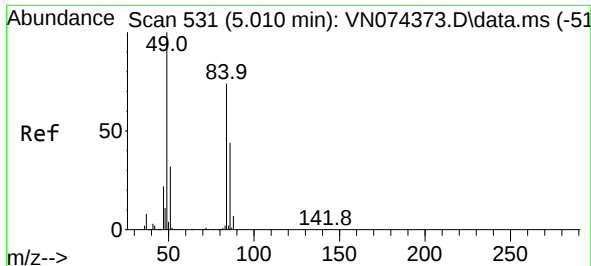
Tgt Ion: 43 Resp: 54258
Ion Ratio Lower Upper
43 100
58 34.8 22.7 34.1#



#18
Methyl Acetate
Concen: 1.351 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.018 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 43 Resp: 12398
Ion Ratio Lower Upper
43 100
74 9.6 16.7 25.1#

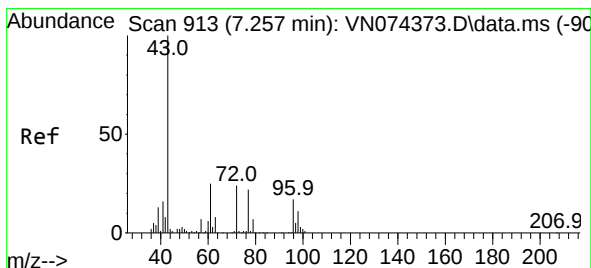
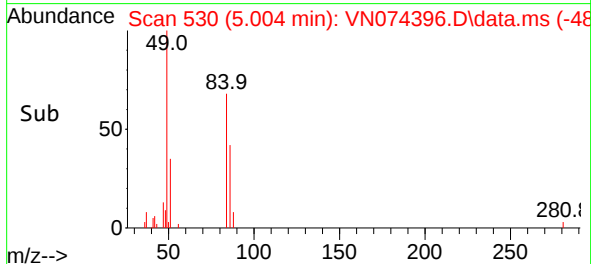
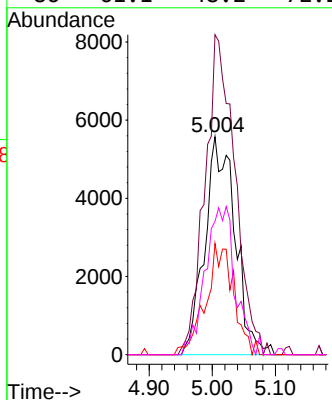
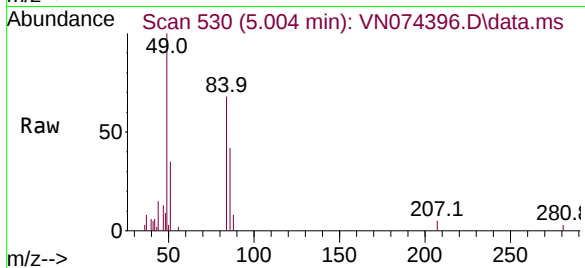




#20
Methylene Chloride
Concen: 2.644 ug/l
RT: 5.004 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

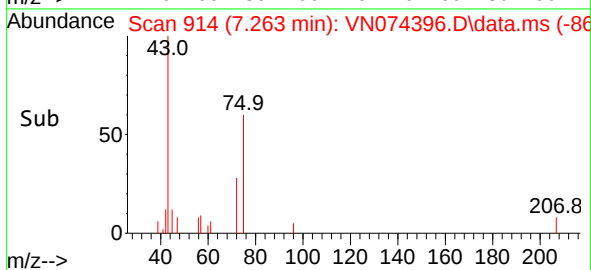
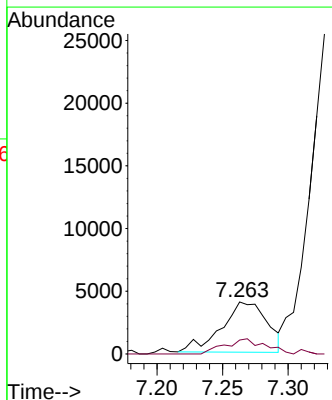
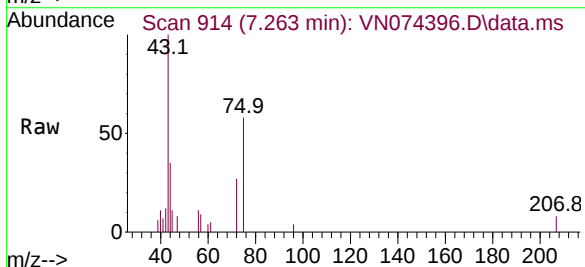
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

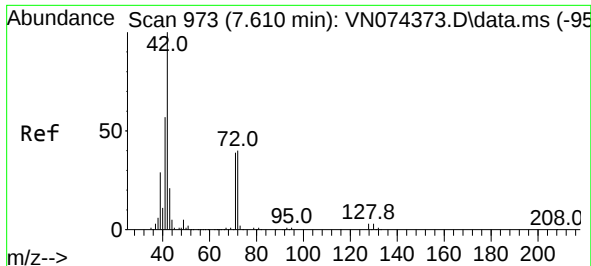
Tgt Ion:	84	Resp:	18590
Ion	Ratio	Lower	Upper
84	100		
49	146.8	108.2	162.4
51	51.0	34.3	51.5
86	61.1	48.2	72.2



#25
2-Butanone
Concen: 1.850 ug/l
RT: 7.263 min Scan# 914
Delta R.T. 0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion:	43	Resp:	9668
Ion	Ratio	Lower	Upper
43	100		
72	27.9	18.9	28.3





#29

Tetrahydrofuran

Concen: 0.654 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN074396.D

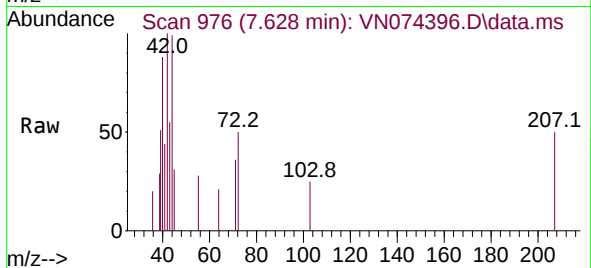
Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_116D-20220902



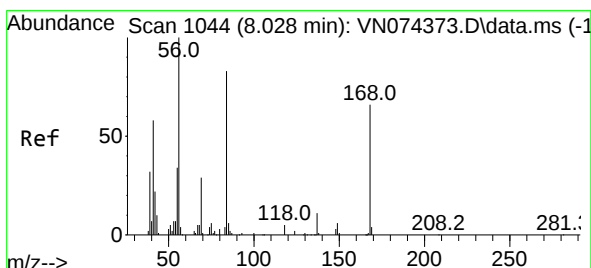
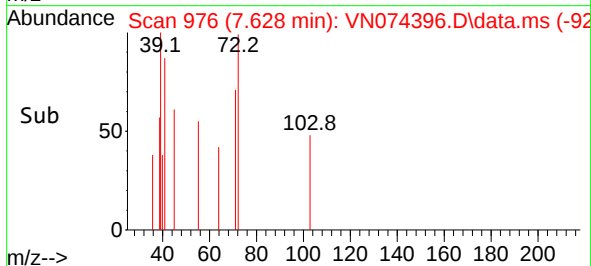
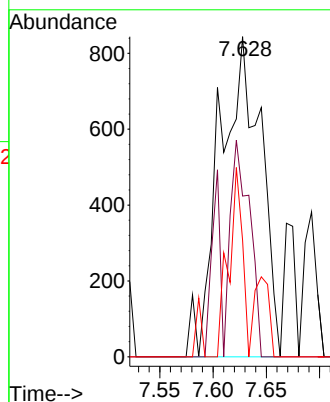
Tgt Ion: 42 Resp: 2261

Ion Ratio Lower Upper

42 100

72 31.9 32.7 49.1#

71 19.9 31.0 46.6#



#31

Cyclohexane

Concen: 1.083 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.012 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

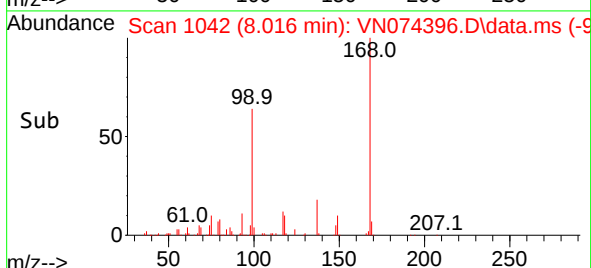
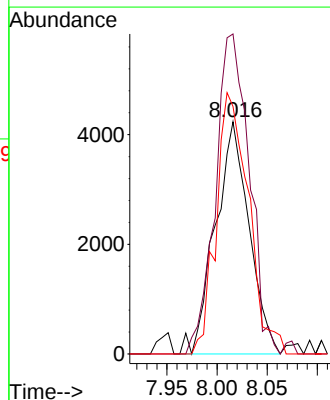
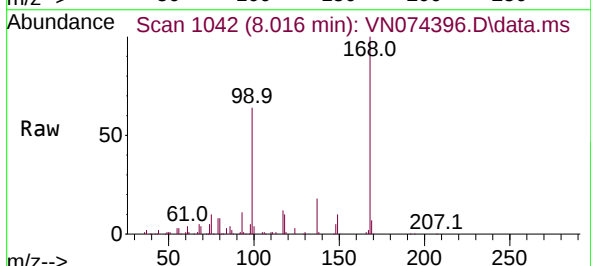
Tgt Ion: 56 Resp: 9939

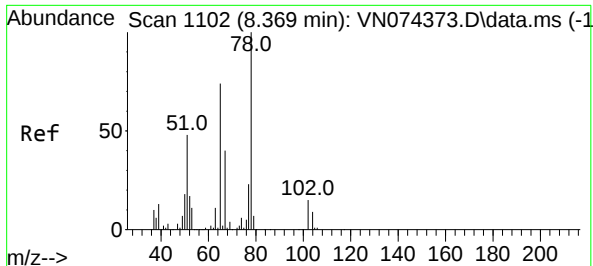
Ion Ratio Lower Upper

56 100

69 137.8 23.0 34.4#

84 106.6 66.3 99.5#





#33

1,2-Dichloroethane-d4

Concen: 41.368 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

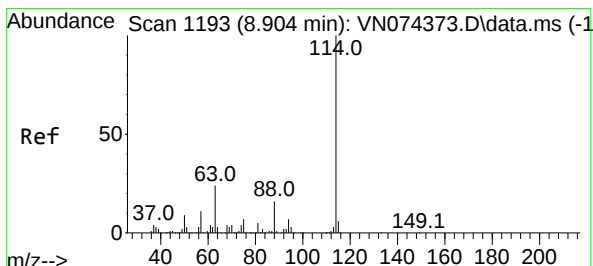
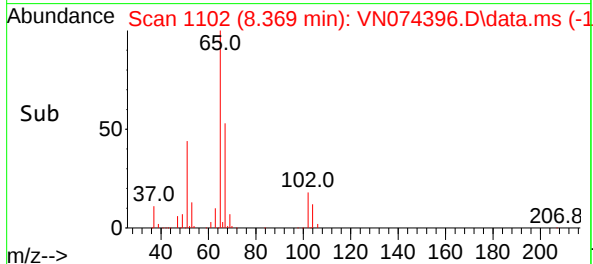
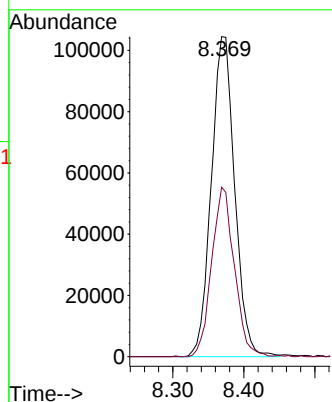
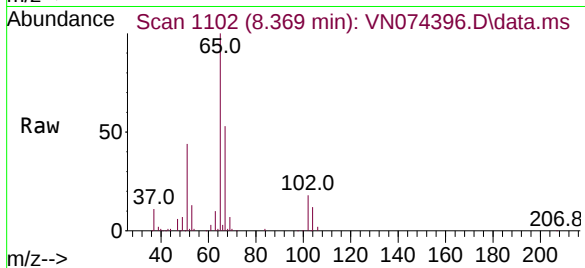
S1-SO_116D-20220902

Tgt Ion: 65 Resp: 238602

Ion Ratio Lower Upper

65 100

67 51.3 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

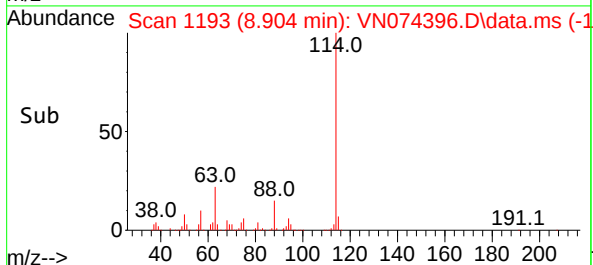
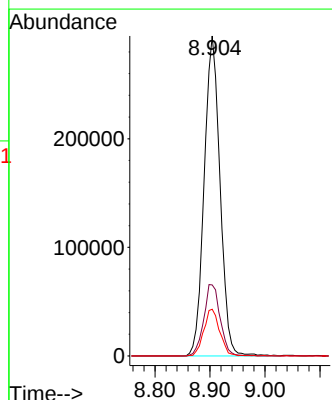
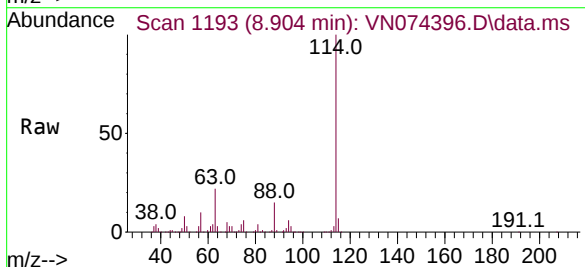
Tgt Ion: 114 Resp: 589895

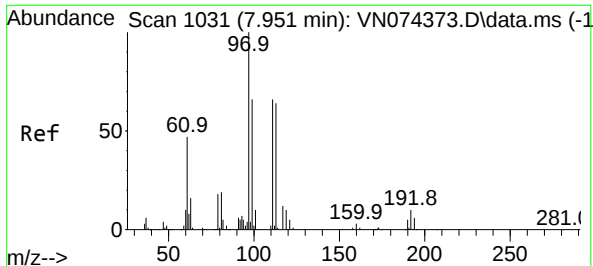
Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.6

88 14.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.045 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_116D-20220902

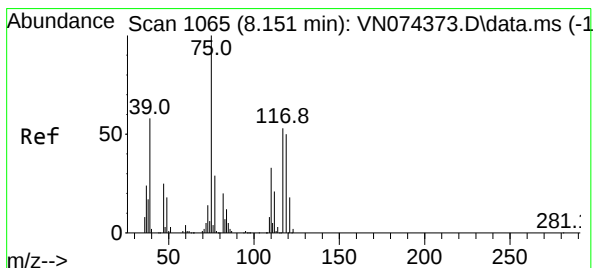
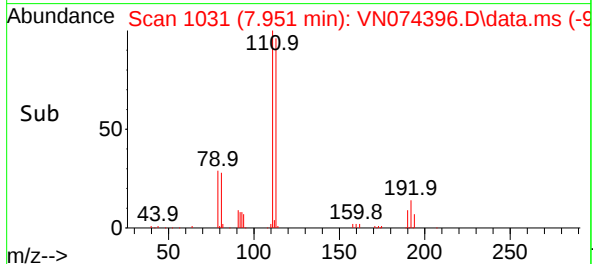
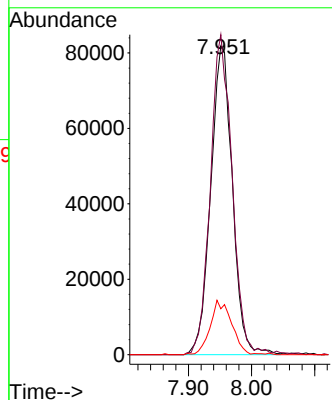
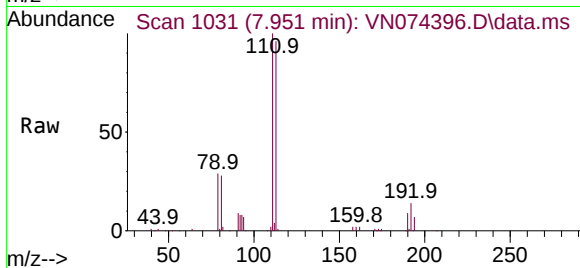
Tgt Ion:113 Resp: 195317

Ion Ratio Lower Upper

113 100

111 103.8 83.0 124.4

192 17.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.909 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

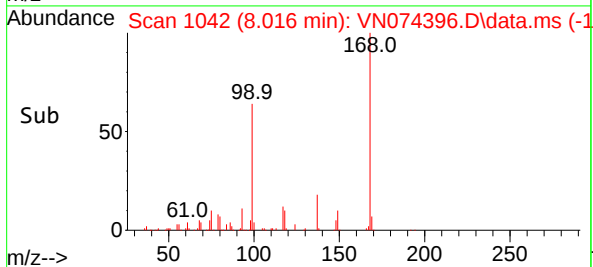
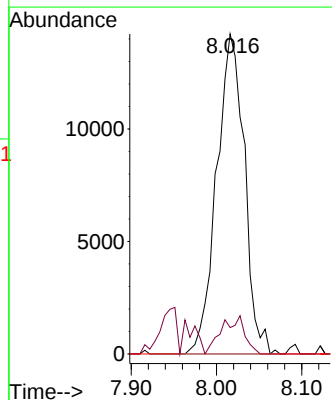
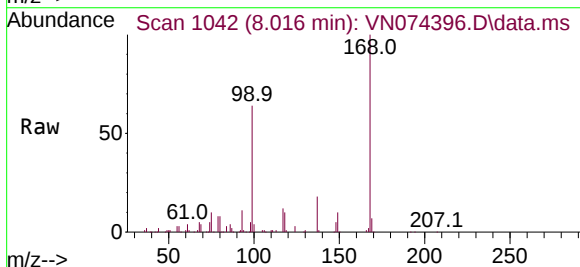
Tgt Ion: 75 Resp: 32205

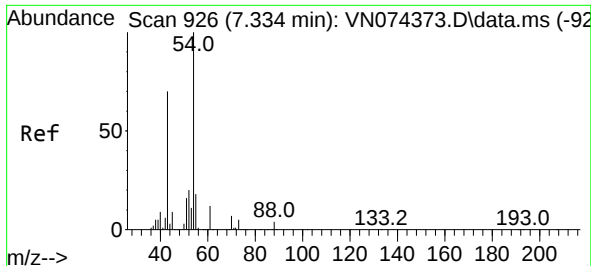
Ion Ratio Lower Upper

75 100

110 9.9 16.4 49.1#

77 0.0 25.4 38.2#

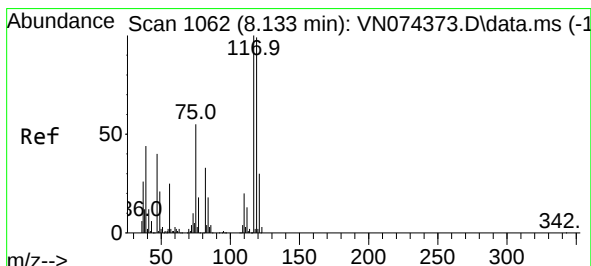
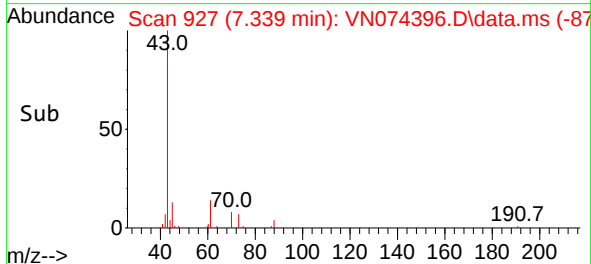
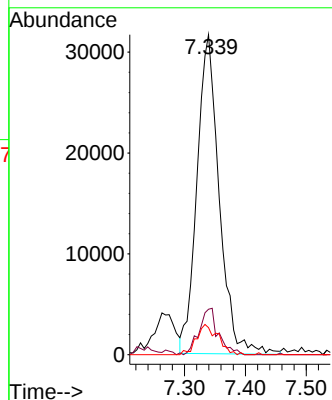
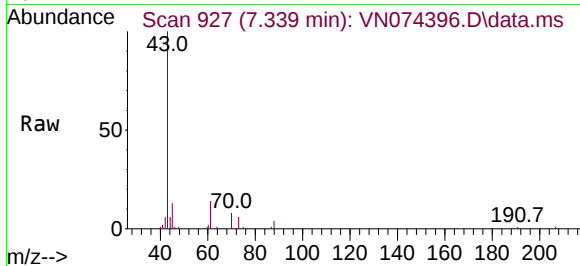




#37
Ethyl Acetate
Concen: 8.454 ug/l
RT: 7.339 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

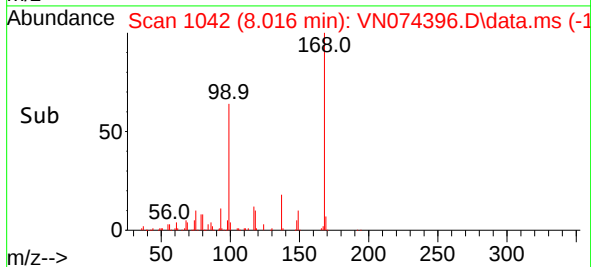
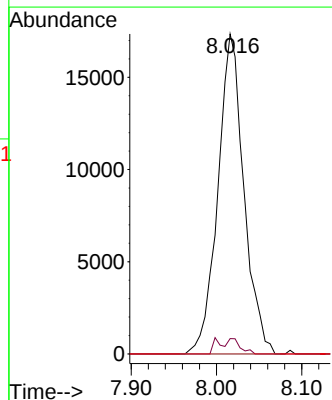
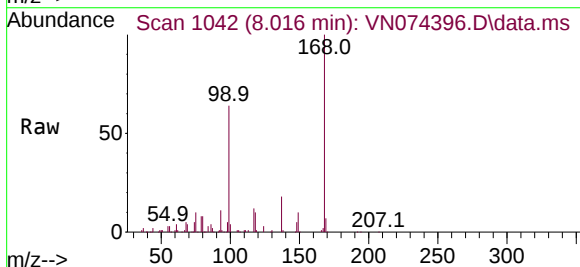
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

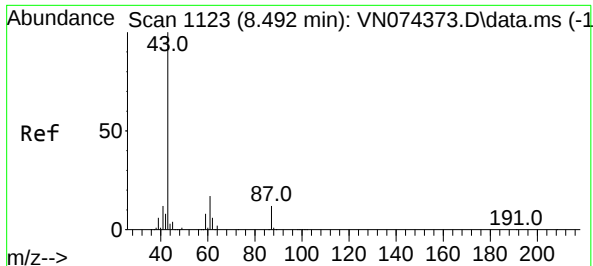
Tgt Ion: 43 Resp: 80461
Ion Ratio Lower Upper
43 100
61 12.5 11.1 16.7
70 9.1 7.2 10.8



#38
Carbon Tetrachloride
Concen: 5.432 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 117 Resp: 36792
Ion Ratio Lower Upper
117 100
119 4.8 78.8 118.2#
121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 21.565 ug/l

RT: 8.498 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_116D-20220902

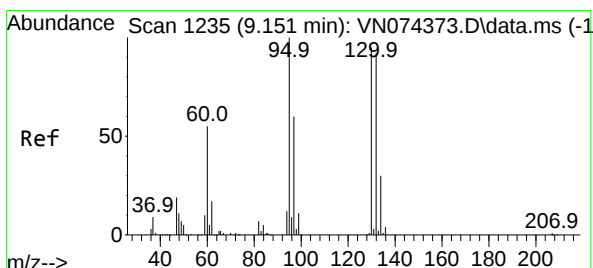
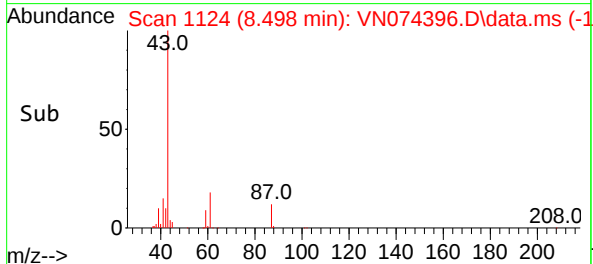
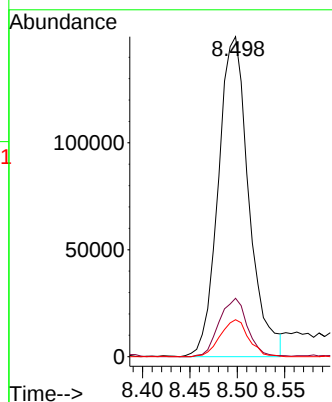
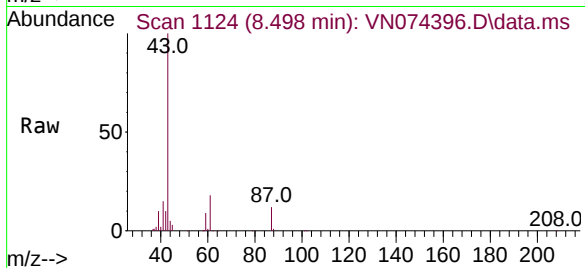
Tgt Ion: 43 Resp: 335635

Ion Ratio Lower Upper

43 100

61 16.9 18.6 27.8#

87 10.7 9.4 14.2



#44

Trichloroethene

Concen: 6.125 ug/l

RT: 9.151 min Scan# 1235

Delta R.T. 0.000 min

Lab File: VN074396.D

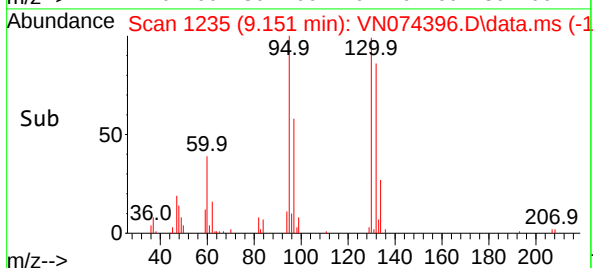
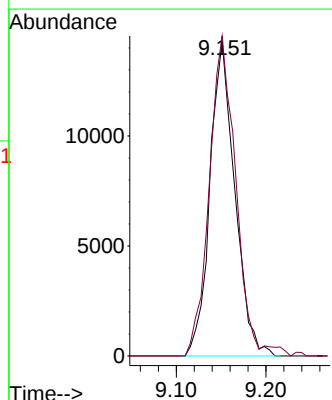
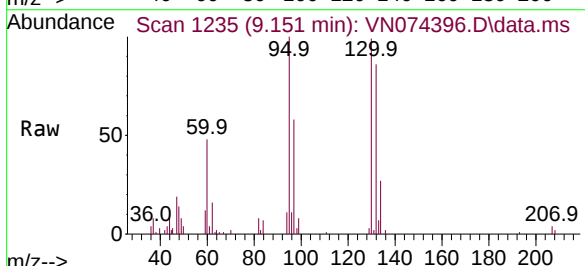
Acq: 10 Sep 2022 00:38

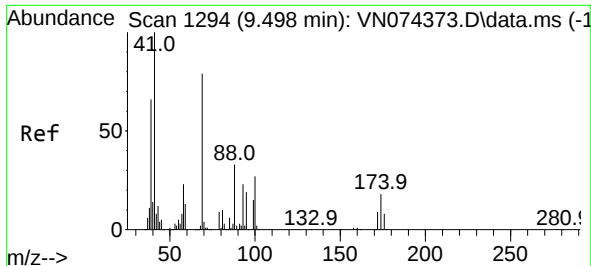
Tgt Ion:130 Resp: 27581

Ion Ratio Lower Upper

130 100

95 101.4 0.0 210.0

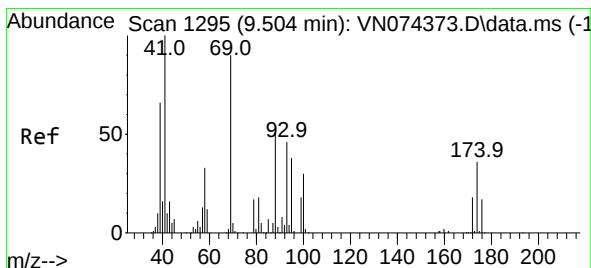
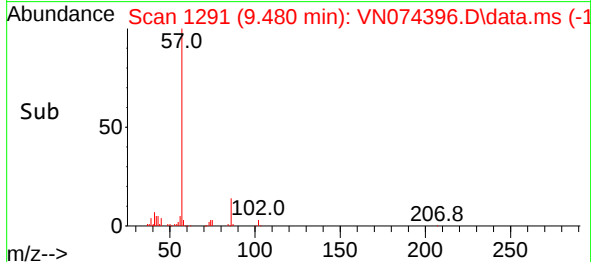
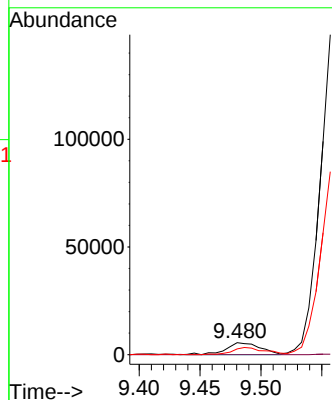
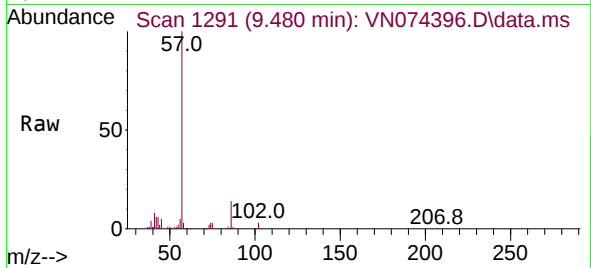




#48
Methyl methacrylate
Concen: 1.604 ug/l
RT: 9.480 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

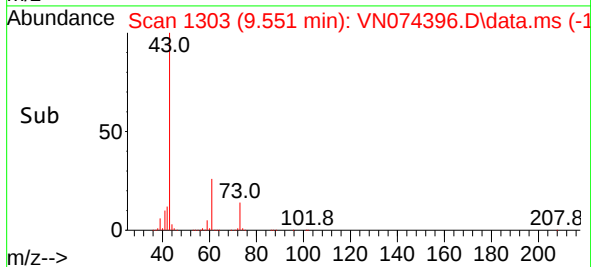
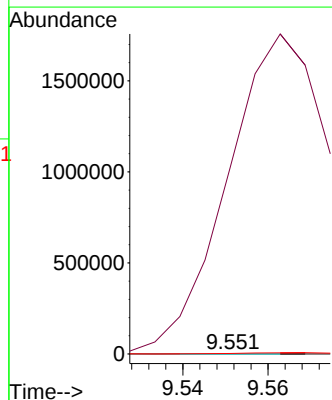
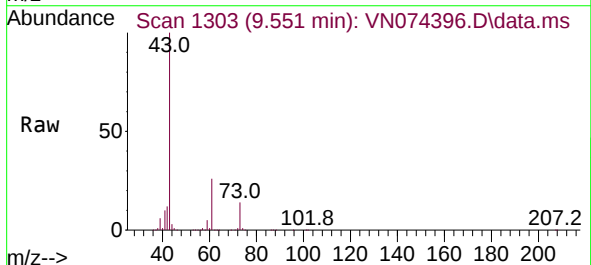
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

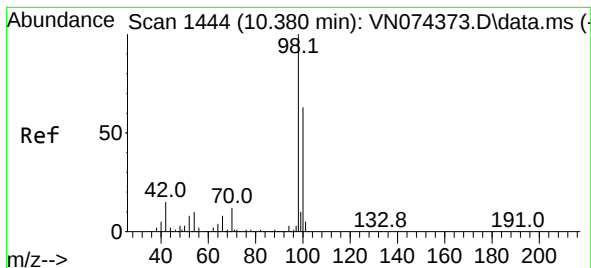
Tgt Ion: 41 Resp: 10999
Ion Ratio Lower Upper
41 100
69 0.0 67.6 101.4#
39 57.9 58.2 87.4#



#49
1,4-Dioxane
Concen: 0.948 ug/l
RT: 9.551 min Scan# 1303
Delta R.T. 0.047 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 0.0 26.9 40.3#
58 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 44.480 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074396.D

Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

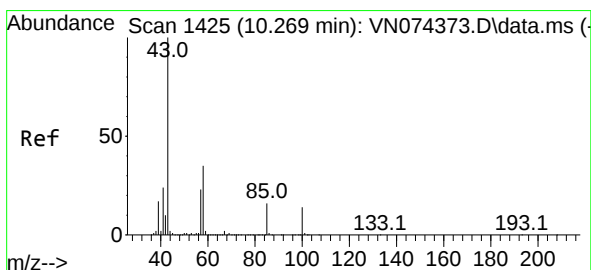
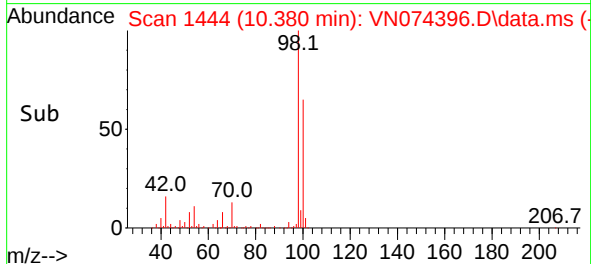
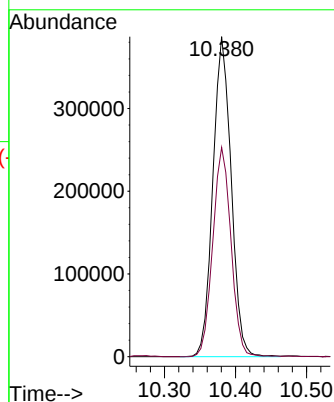
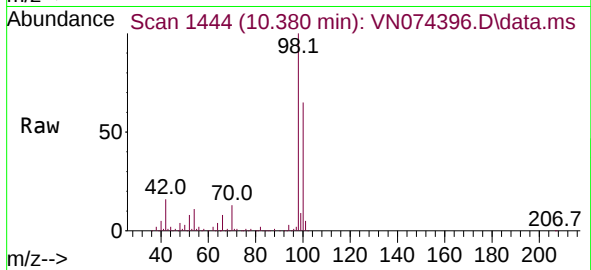
S1-SO_116D-20220902

Tgt Ion: 98 Resp: 690201

Ion Ratio Lower Upper

98 100

100 65.2 50.6 76.0



#51

4-Methyl-2-Pentanone

Concen: 1.561 ug/l

RT: 10.269 min Scan# 1425

Delta R.T. 0.000 min

Lab File: VN074396.D

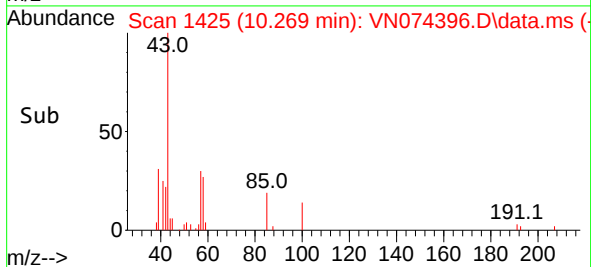
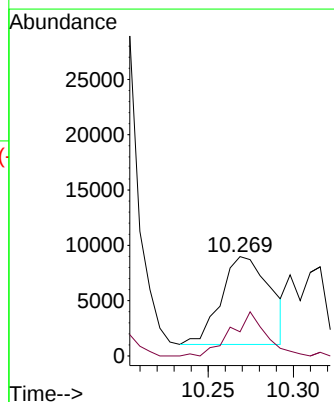
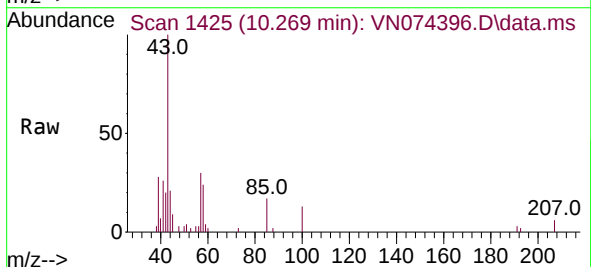
Acq: 10 Sep 2022 00:38

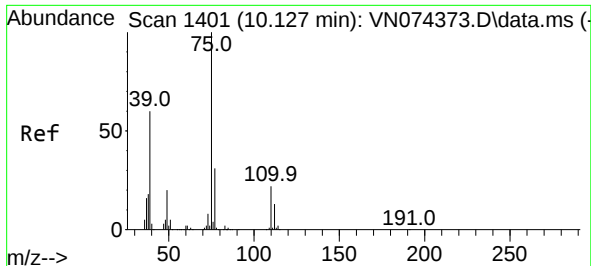
Tgt Ion: 43 Resp: 15884

Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6

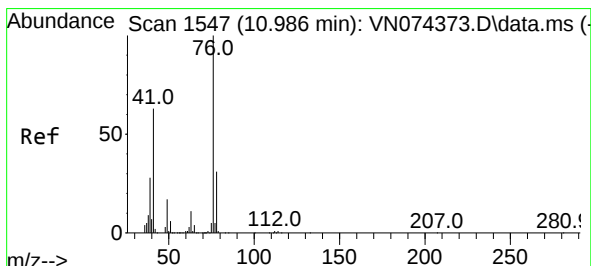
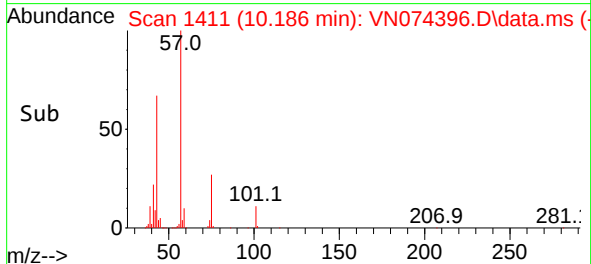
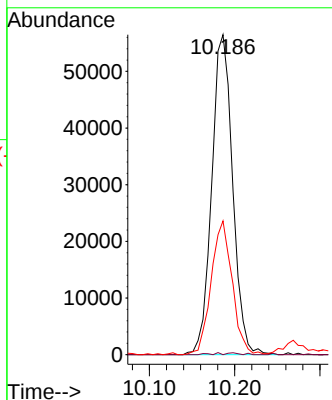
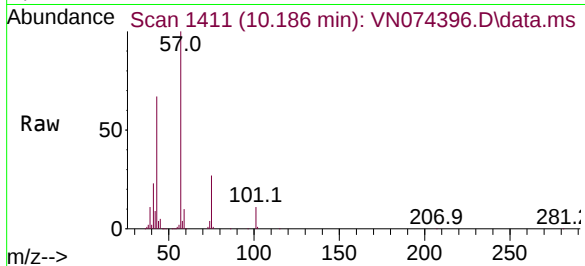




#54
 cis-1,3-Dichloropropene
 Concen: 11.241 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074396.D
 Acq: 10 Sep 2022 00:38

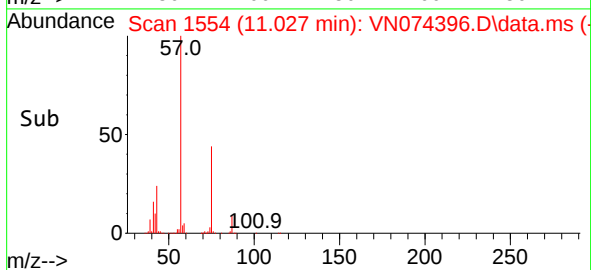
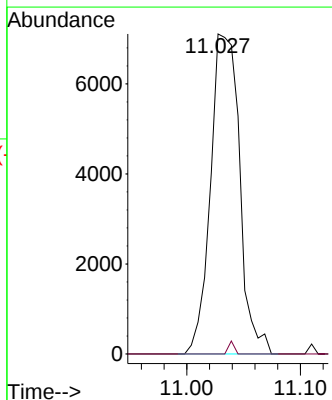
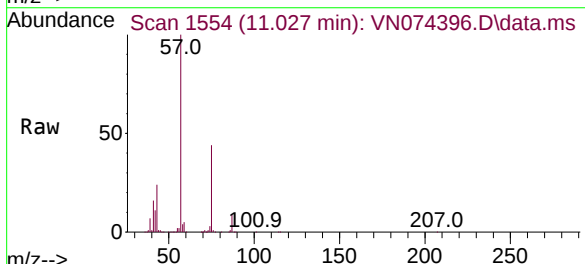
Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_116D-20220902

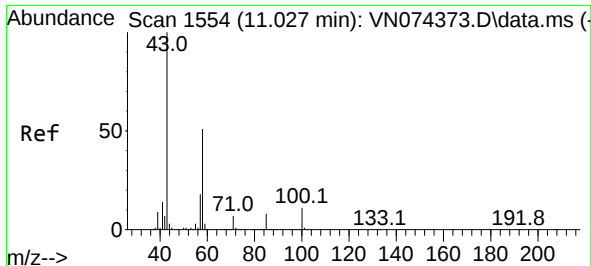
Tgt Ion: 75 Resp: 96205
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 41.8 48.0 72.0#



#57
 1,3-Dichloropropane
 Concen: 1.414 ug/l
 RT: 11.027 min Scan# 1554
 Delta R.T. 0.041 min
 Lab File: VN074396.D
 Acq: 10 Sep 2022 00:38

Tgt Ion: 76 Resp: 12659
 Ion Ratio Lower Upper
 76 100
 78 0.8 25.0 37.4#

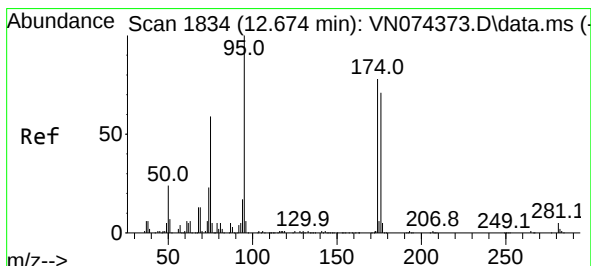
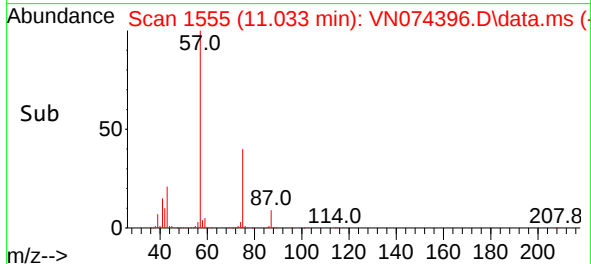
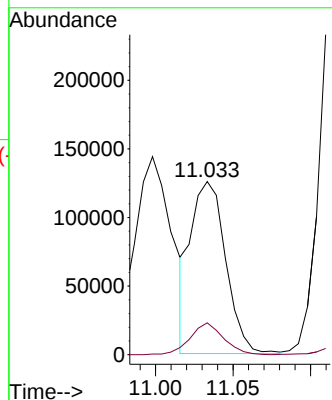
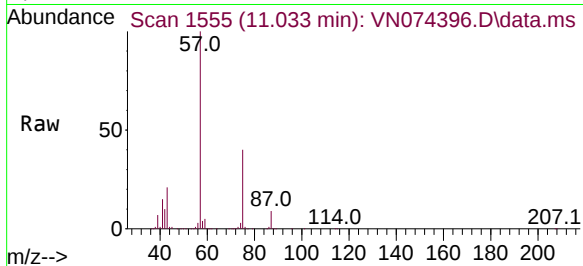




#59
2-Hexanone
Concen: 24.998 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

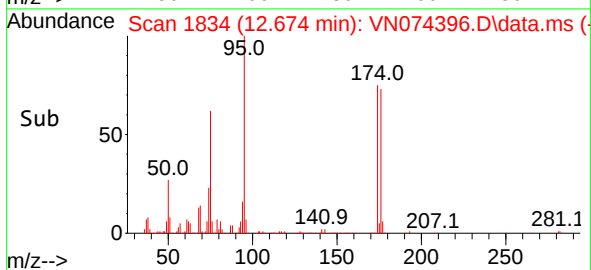
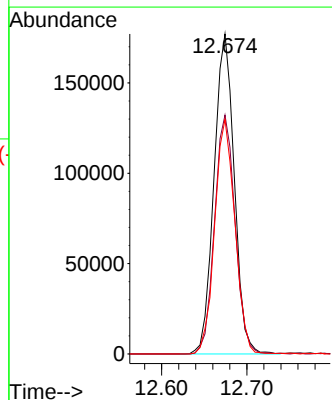
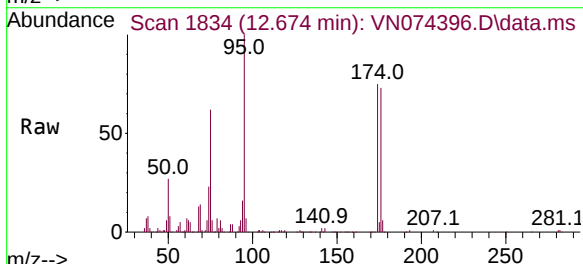
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

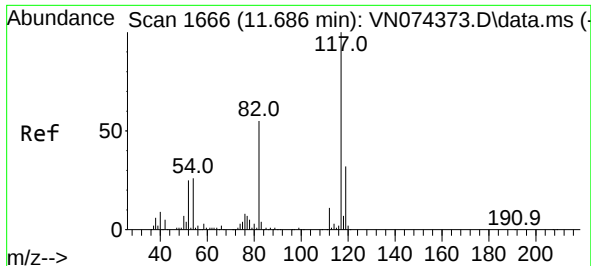
Tgt Ion: 43 Resp: 196350
Ion Ratio Lower Upper
43 100
58 17.7 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 51.951 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 95 Resp: 292680
Ion Ratio Lower Upper
95 100
174 75.7 0.0 150.6
176 73.2 0.0 143.4

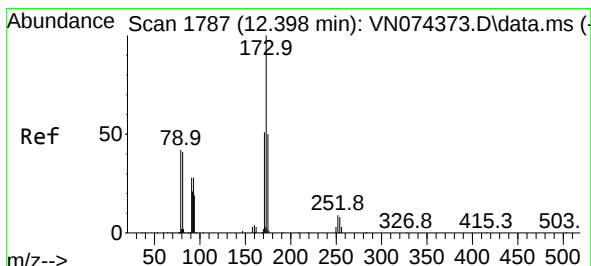
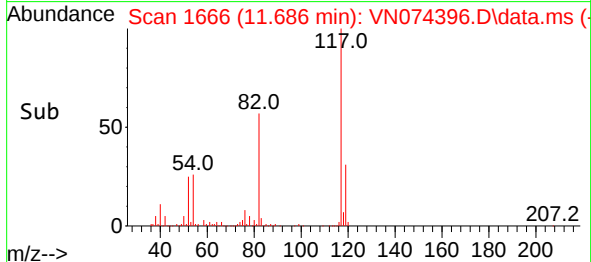
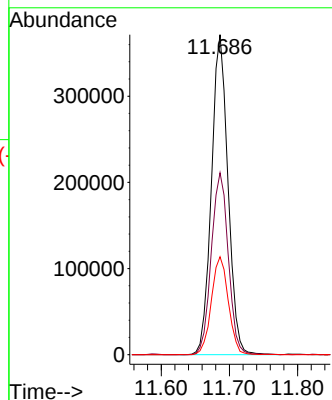
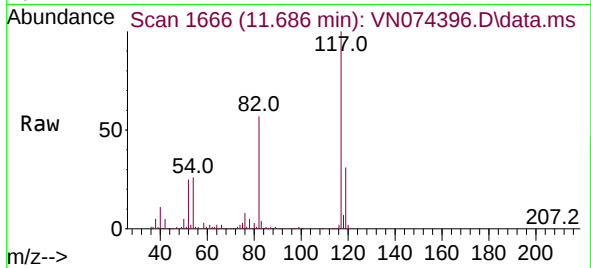




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

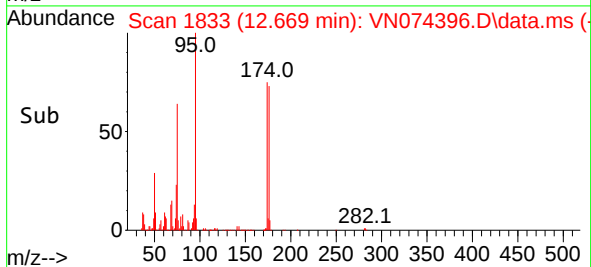
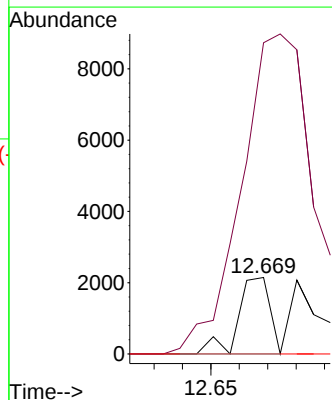
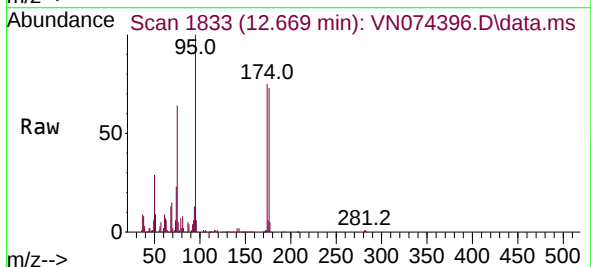
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

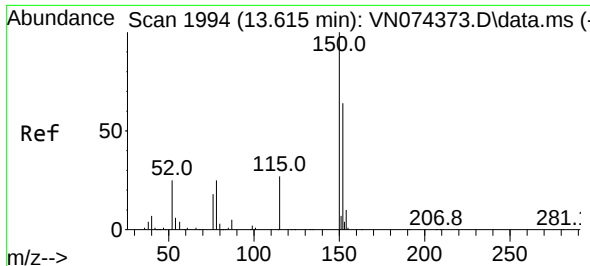
Tgt Ion:117 Resp: 626562
Ion Ratio Lower Upper
117 100
82 56.9 44.3 66.5
119 30.6 25.5 38.3



#71
Bromoform
Concen: 0.375 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion:173 Resp: 1657
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0

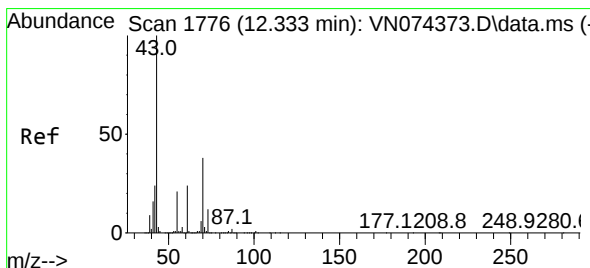
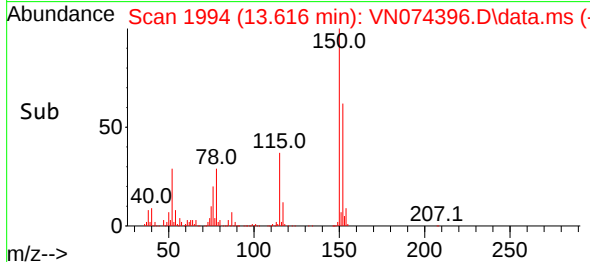
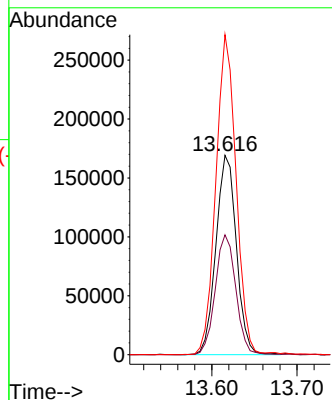
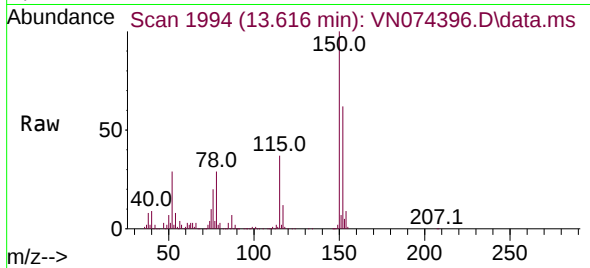




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

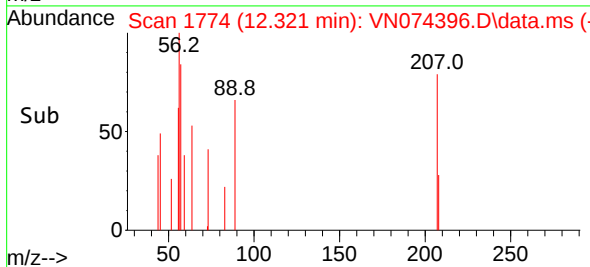
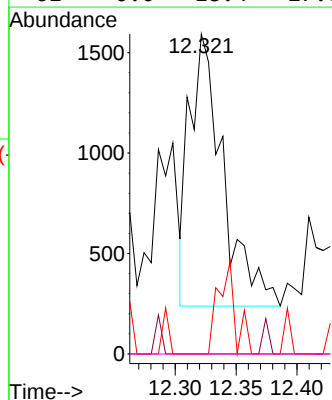
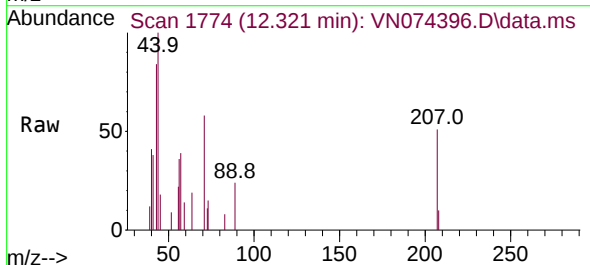
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

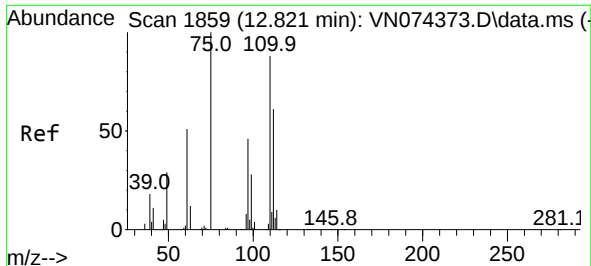
Tgt Ion:152 Resp: 282332
Ion Ratio Lower Upper
152 100
115 60.4 32.0 96.0
150 158.1 0.0 359.6



#74
N-ethyl acetate
Concen: Below Cal
RT: 12.321 min Scan# 1774
Delta R.T. -0.012 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.0#
55 0.0 17.0 25.6#
61 0.0 18.4 27.6#

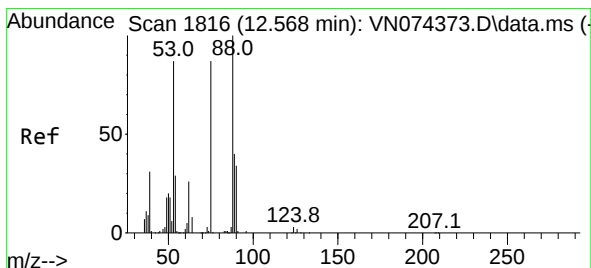
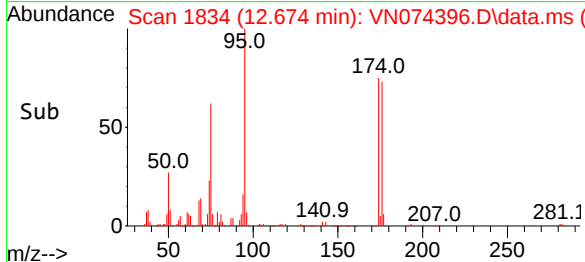
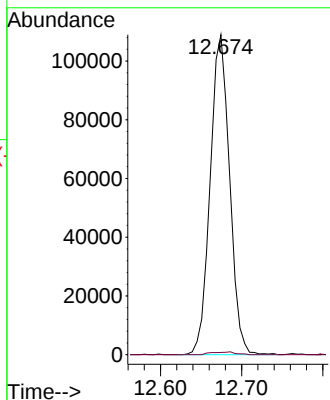
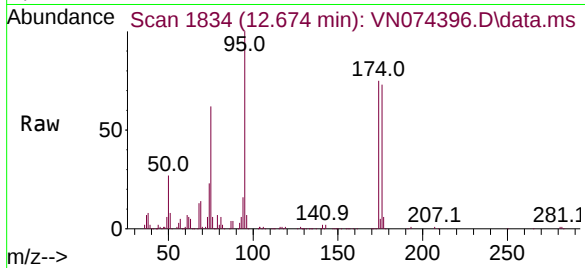




#76
1,2,3-Trichloropropane
Concen: 24.563 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

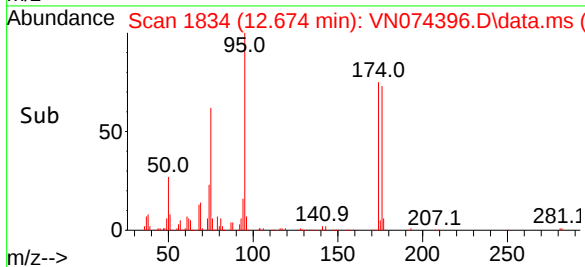
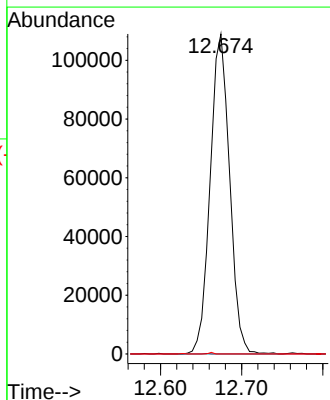
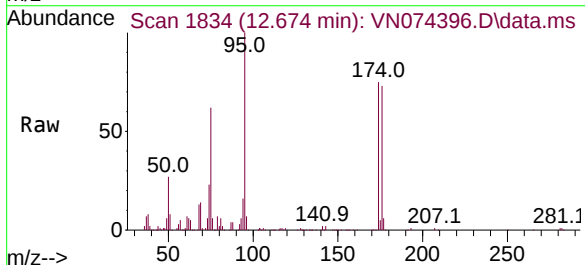
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_116D-20220902

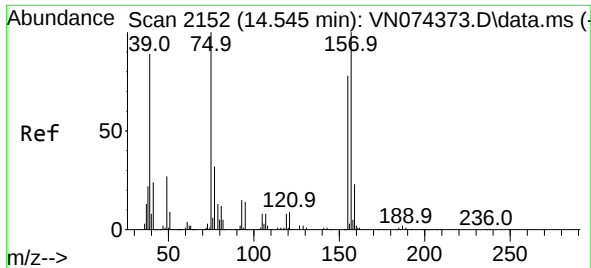
Tgt Ion: 75 Resp: 181291
Ion Ratio Lower Upper
75 100
77 1.1 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.750 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074396.D
Acq: 10 Sep 2022 00:38

Tgt Ion: 75 Resp: 181291
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.1 37.7 56.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.545 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN074396.D

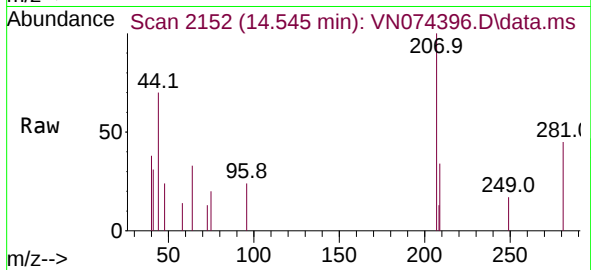
Acq: 10 Sep 2022 00:38

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_116D-20220902



Tgt Ion: 75 Resp: 82

Ion Ratio Lower Upper

75 100

155 0.0 36.6 109.9#

157 0.0 46.2 138.5#

