

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
 Data File : VL040198.D
 Acq On : 21 Feb 2023 17:10
 Operator : SY/MD
 Sample : 01626-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-22DL

Quant Time: Feb 22 03:24:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 22 03:17:31 2023
 Response via : Initial Calibration

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

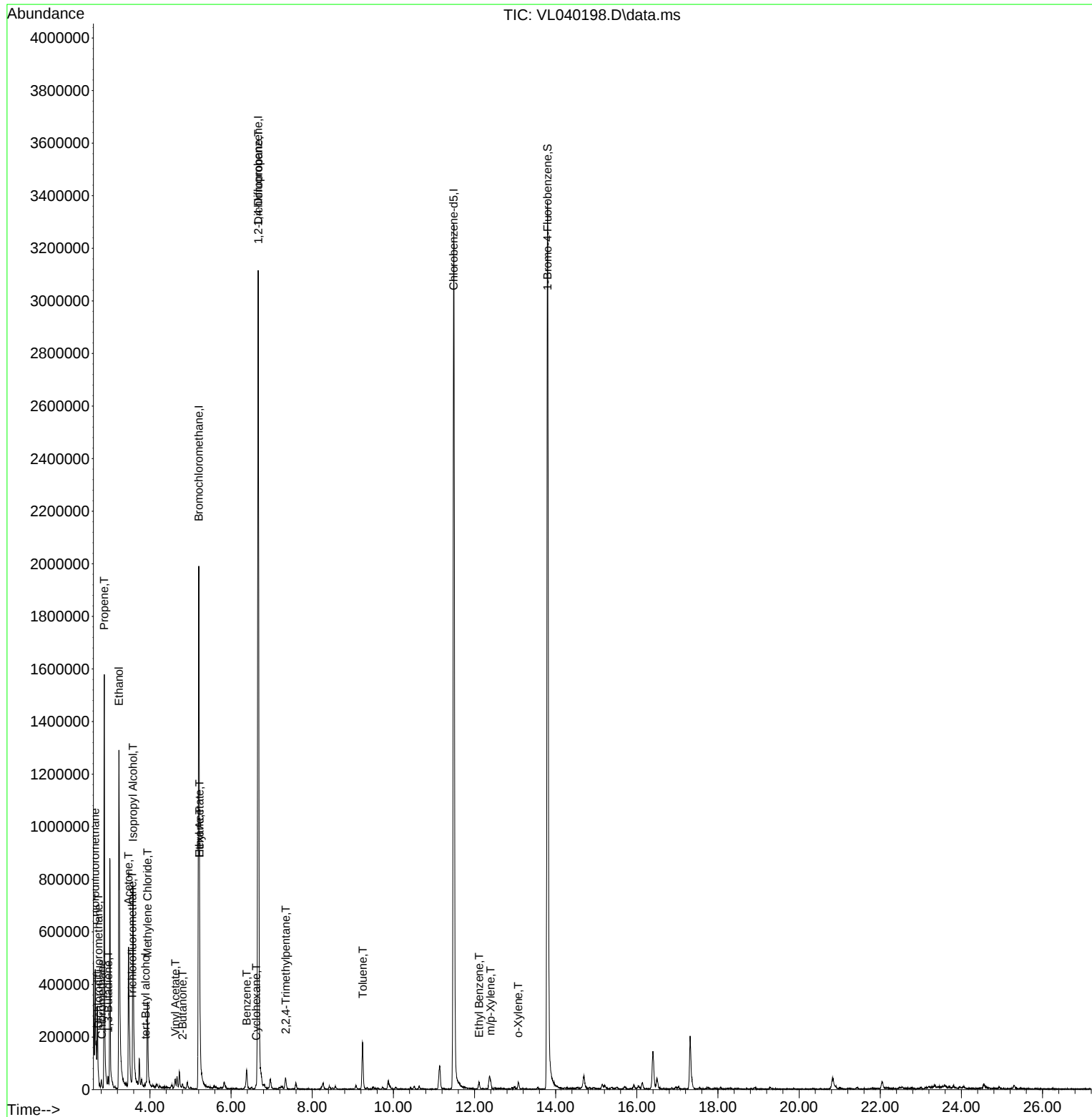
Internal Standards						
1) Bromochloromethane	5.205	49	925471	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2391269	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2138815	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1737355	9.878	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	19112	0.111	ppbv	93
3) Chlorodifluoromethane	2.652	51	346182	3.131	ppbv #	70
4) Chloromethane	2.812	50	8901	0.128	ppbv	95
9) Propene	2.874	41	432333	9.594	ppbv	93
11) Trichlorofluoromethane	3.565	101	7050	0.046	ppbv	89
13) Ethanol	3.237	45	1411820	340.303	ppbv	97
15) Acetone	3.472	43	555605	4.987	ppbv	97
16) 1,3-Butadiene	2.970	39	6886	0.135	ppbv #	8
17) tert-Butyl alcohol	3.896	59	4029	0.040	ppbv #	72
19) Isopropyl Alcohol	3.581	45	845207	15.958	ppbv #	96
20) Methylene Chloride	3.941	84	112599	1.941	ppbv #	96
23) Vinyl Acetate	4.629	43	8257	0.244	ppbv #	38
25) Ethyl Acetate	5.224	43	73484	0.355	ppbv #	92
26) Hexane	5.224	57	66752	0.751	ppbv #	53
30) Cyclohexane	6.619	84	3206	0.046	ppbv #	1
34) 2-Butanone	4.806	43	14294	0.121	ppbv #	63
36) Benzene	6.385	78	52423	0.282	ppbv	96
39) 1,2-Dichloropropane	6.671	63	593134	8.193	ppbv #	25
44) 2,2,4-Trimethylpentane	7.346	57	18077	0.058	ppbv #	19
53) Toluene	9.243	91	124246	0.623	ppbv	100
58) Ethyl Benzene	12.114	91	20408	0.079	ppbv	96
59) m/p-Xylene	12.394	91	8086	0.035	ppbv #	33
60) o-Xylene	13.079	91	20686	0.093	ppbv	98

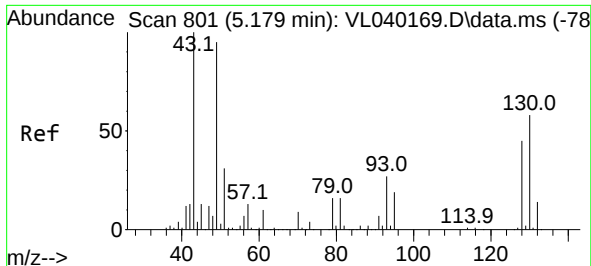
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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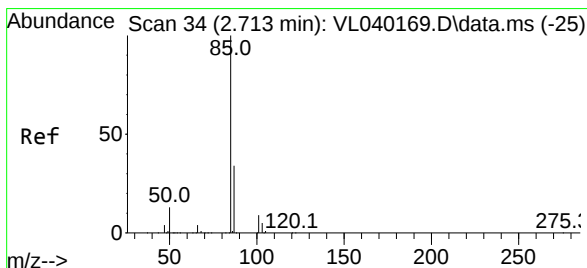
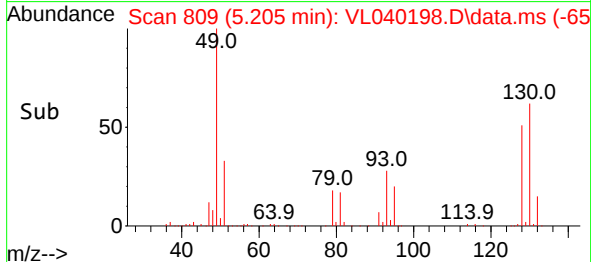
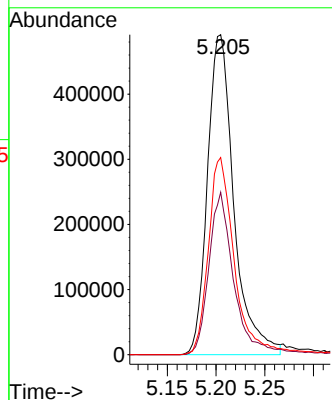
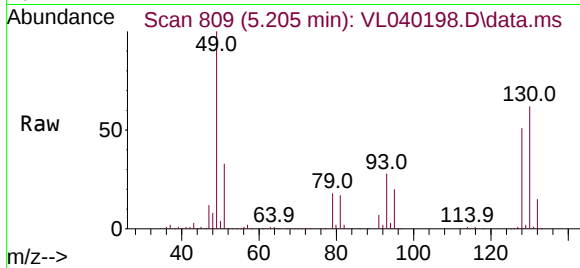




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL040198.D
 Acq: 21 Feb 2023 17:10

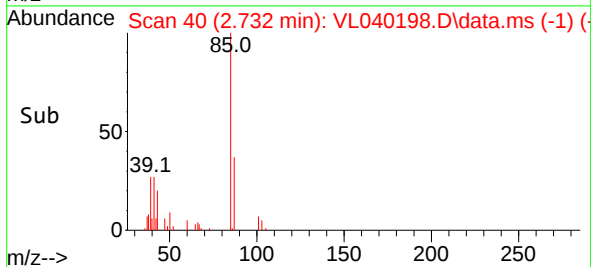
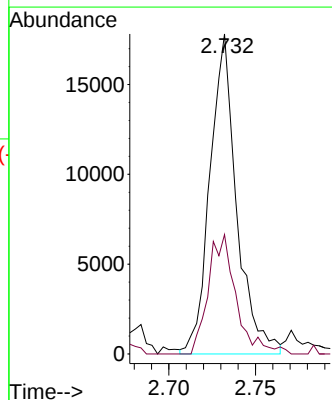
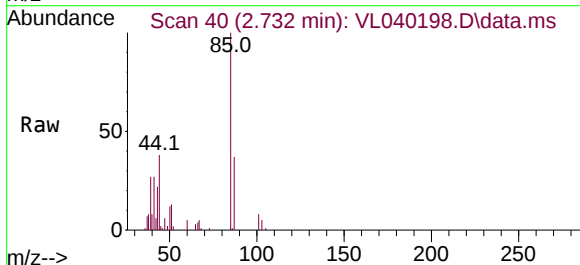
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-22DL

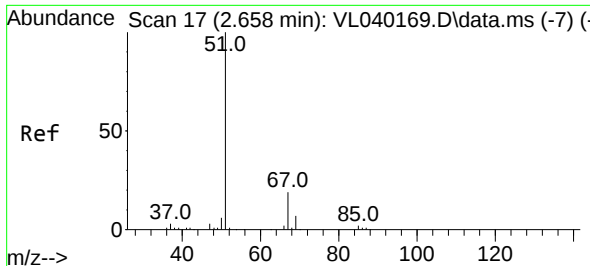
Tgt Ion: 49 Resp: 925471
 Ion Ratio Lower Upper
 49 100
 128 49.4 24.1 72.3
 130 62.8 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.111 ppbv
 RT: 2.732 min Scan# 40
 Delta R.T. 0.003 min
 Lab File: VL040198.D
 Acq: 21 Feb 2023 17:10

Tgt Ion: 85 Resp: 19112
 Ion Ratio Lower Upper
 85 100
 87 37.8 27.0 40.6

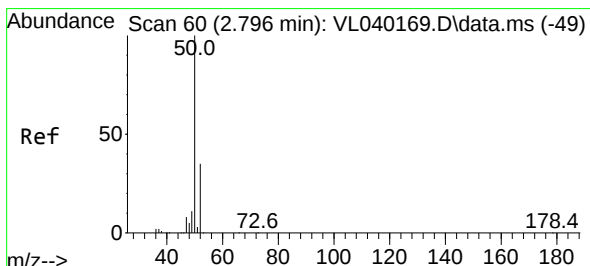
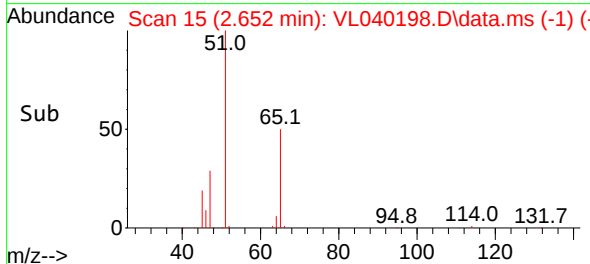
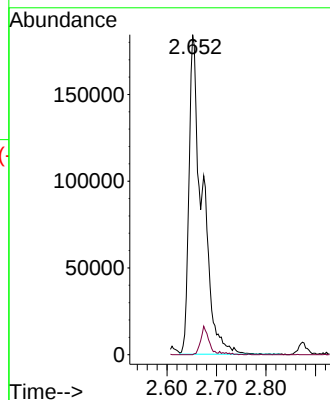
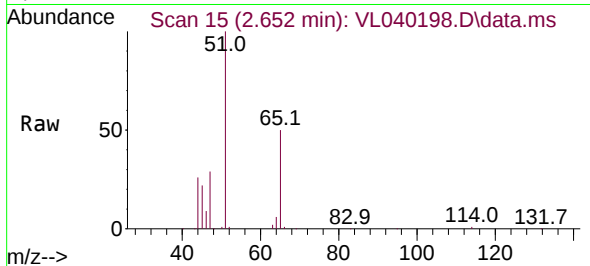




#3
Chlorodifluoromethane
Concen: 3.131 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

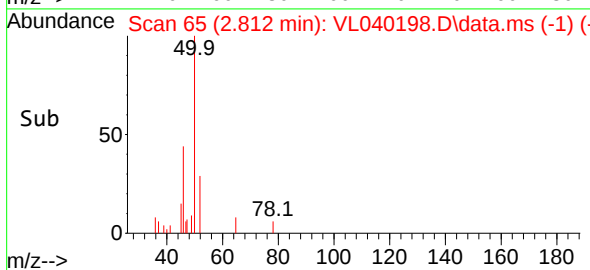
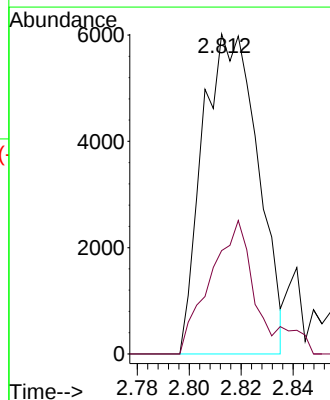
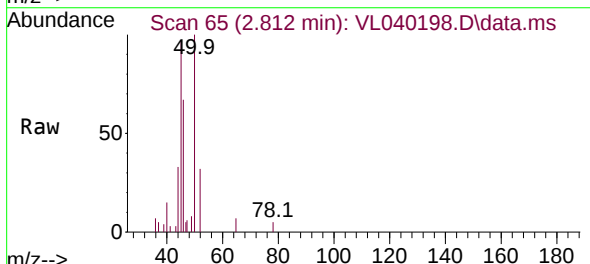
Instrument :
MSVOA_L
ClientSampleId :
IA-22DL

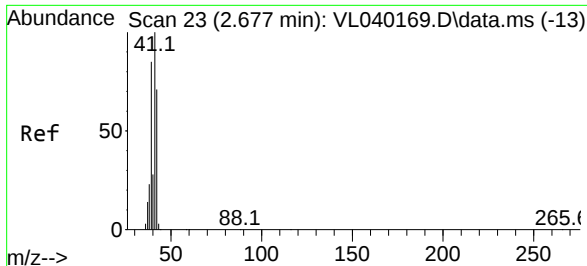
Tgt Ion: 51 Resp: 346182
Ion Ratio Lower Upper
51 100
67 5.9 15.4 23.2#



#4
Chloromethane
Concen: 0.128 ppbv
RT: 2.812 min Scan# 65
Delta R.T. -0.000 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

Tgt Ion: 50 Resp: 8901
Ion Ratio Lower Upper
50 100
52 32.3 28.3 42.5





#9

Propene

Concen: 9.594 ppbv

RT: 2.874 min Scan# 84

Delta R.T. 0.180 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

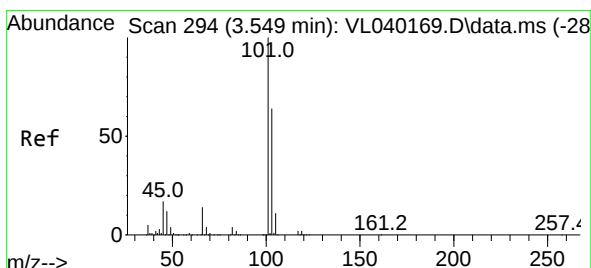
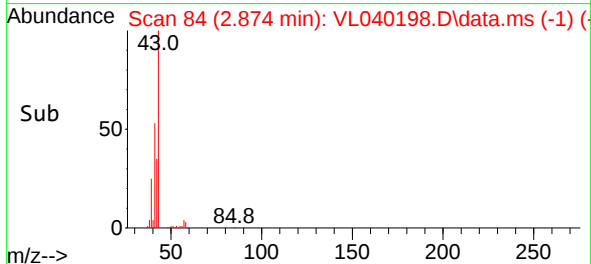
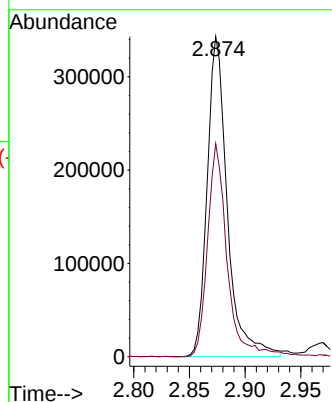
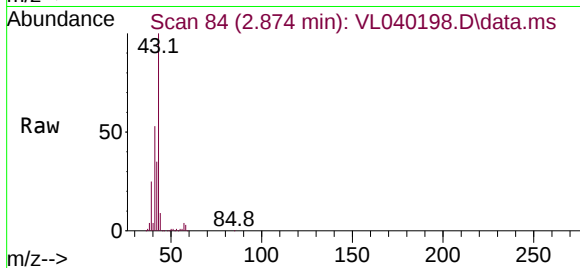
IA-22DL

Tgt Ion: 41 Resp: 432333

Ion Ratio Lower Upper

41 100

42 65.4 56.9 85.3



#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 3.565 min Scan# 299

Delta R.T. -0.003 min

Lab File: VL040198.D

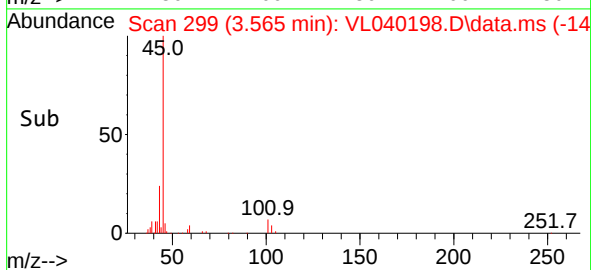
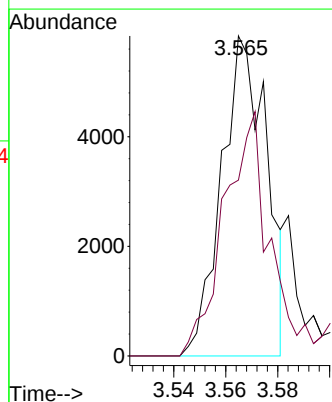
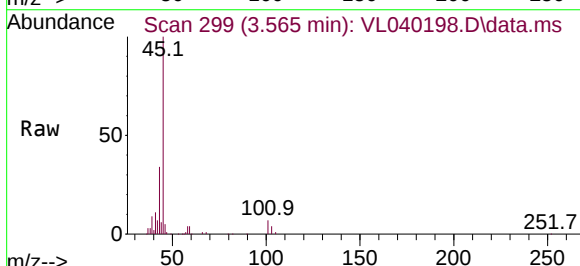
Acq: 21 Feb 2023 17:10

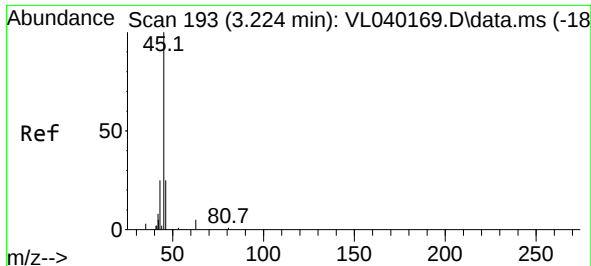
Tgt Ion:101 Resp: 7050

Ion Ratio Lower Upper

101 100

103 54.9 51.0 76.6

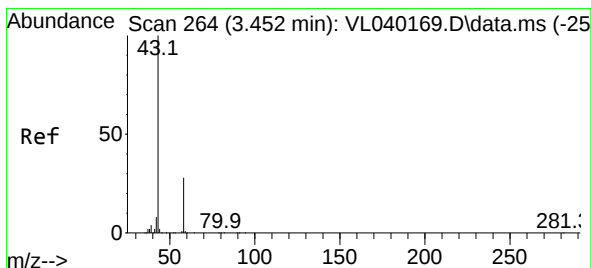
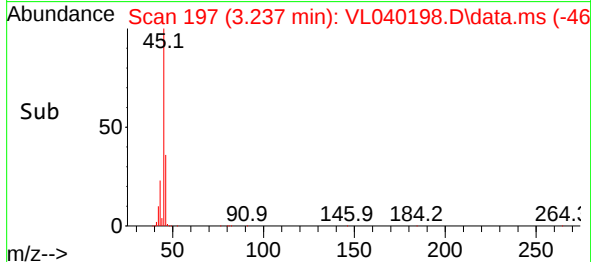
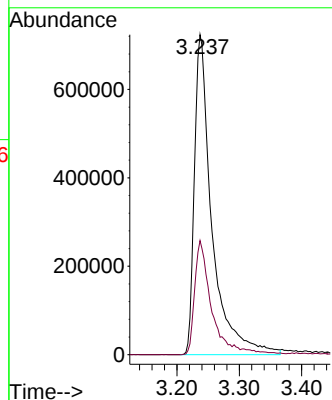
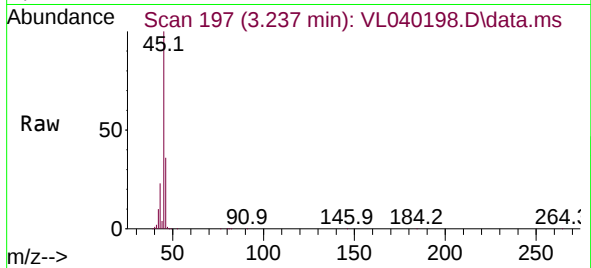




#13
Ethanol
Concen: 340.303 ppbv
RT: 3.237 min Scan# 19
Delta R.T. -0.013 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

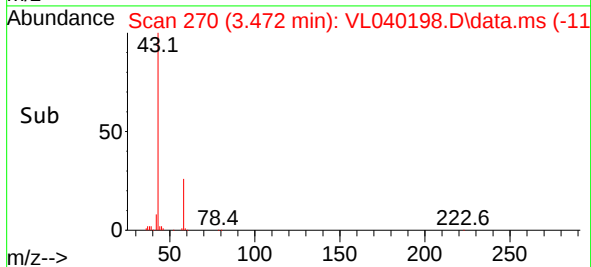
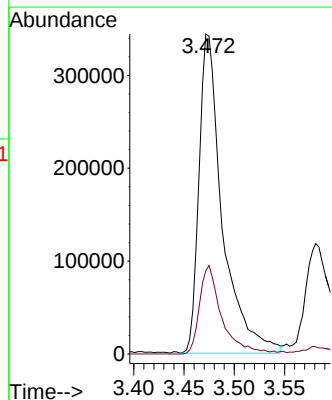
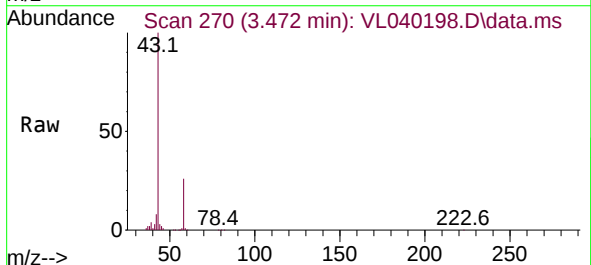
Instrument :
MSVOA_L
ClientSampleId :
IA-22DL

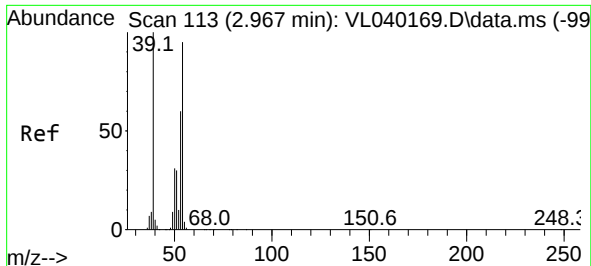
Tgt Ion: 45 Resp: 1411820
Ion Ratio Lower Upper
45 100
46 35.0 13.3 53.1



#15
Acetone
Concen: 4.987 ppbv
RT: 3.472 min Scan# 270
Delta R.T. -0.000 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

Tgt Ion: 43 Resp: 555605
Ion Ratio Lower Upper
43 100
58 26.5 22.4 33.6

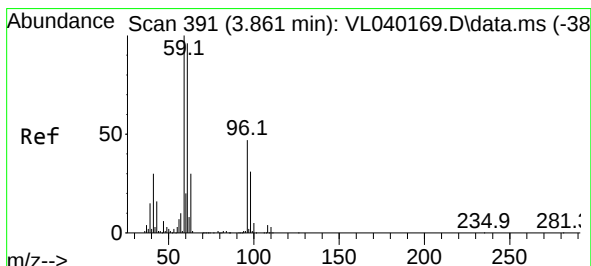
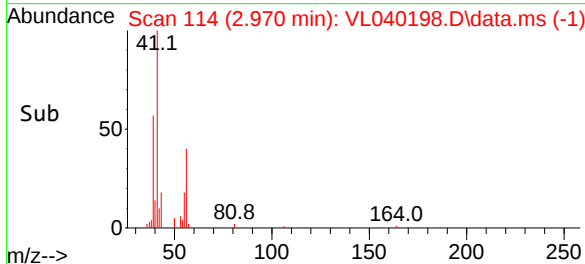
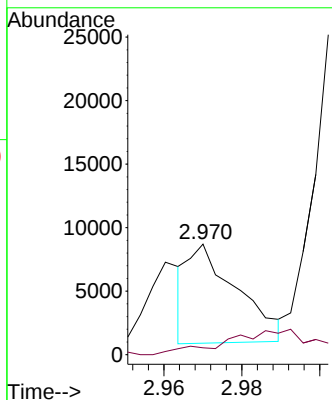
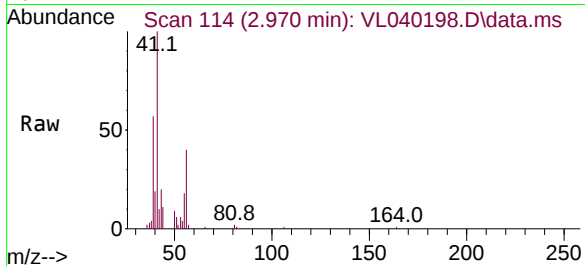




#16
1,3-Butadiene
Concen: 0.135 ppbv
RT: 2.970 min Scan# 113
Delta R.T. -0.016 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

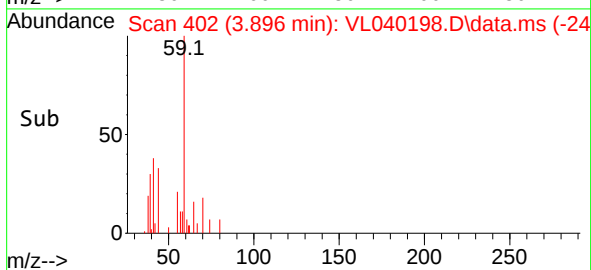
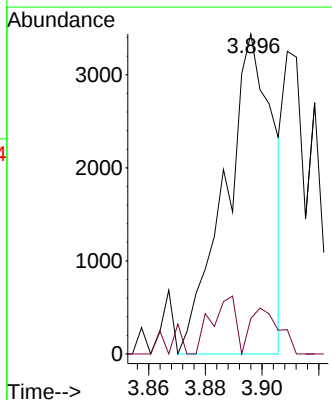
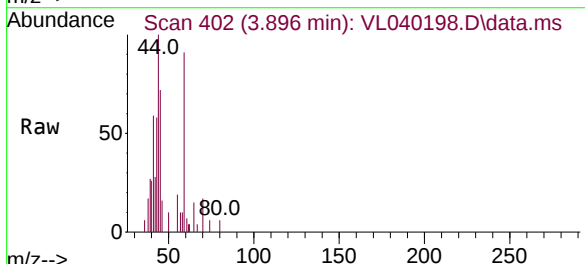
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MSVOA_L
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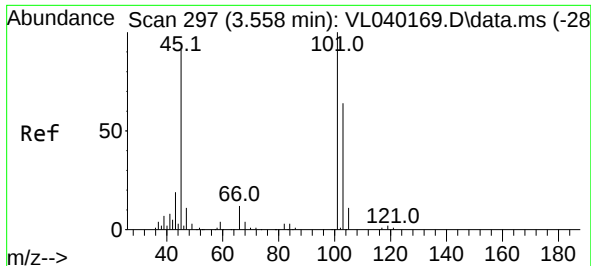
Tgt Ion: 39 Resp: 6886
Ion Ratio Lower Upper
39 100
54 0.0 66.7 100.1#



#17
tert-Butyl alcohol
Concen: 0.040 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.010 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

Tgt Ion: 59 Resp: 4029
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 15.958 ppbv

RT: 3.581 min Scan# 304

Delta R.T. -0.000 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

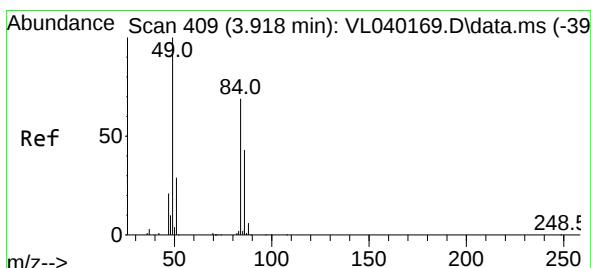
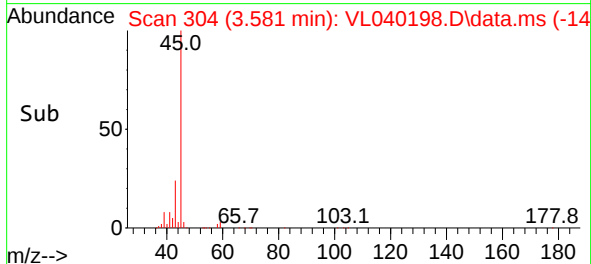
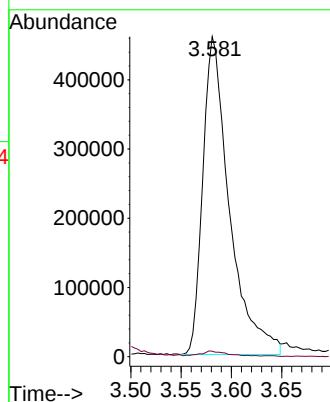
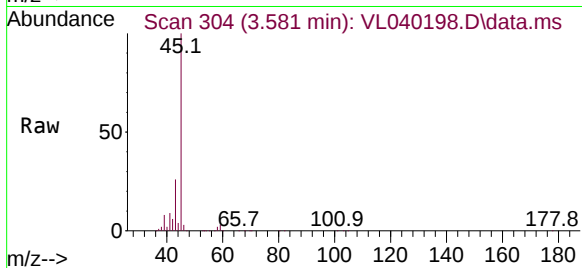
IA-22DL

Tgt Ion: 45 Resp: 845207

Ion Ratio Lower Upper

45 100

58 1.9 2.6 3.8#



#20

Methylene Chloride

Concen: 1.941 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.003 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Tgt Ion: 84 Resp: 112599

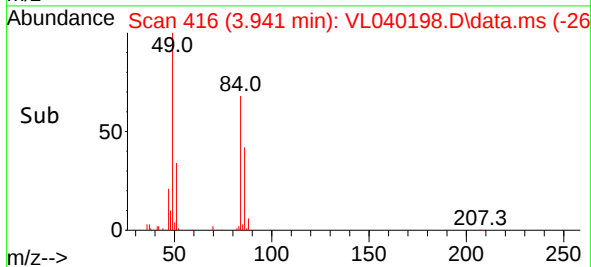
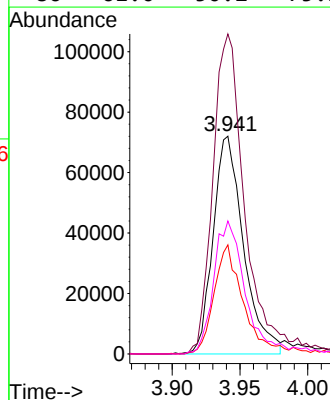
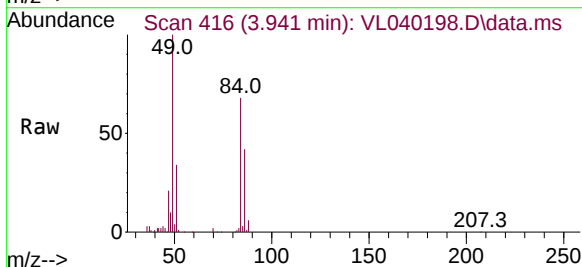
Ion Ratio Lower Upper

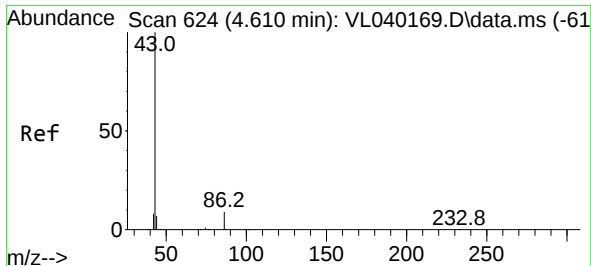
84 100

49 146.7 115.5 173.3

51 50.1 33.1 49.7#

86 61.0 50.2 75.2



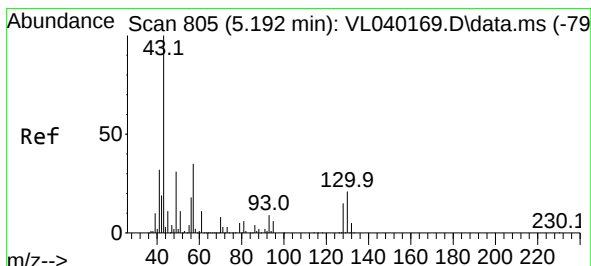
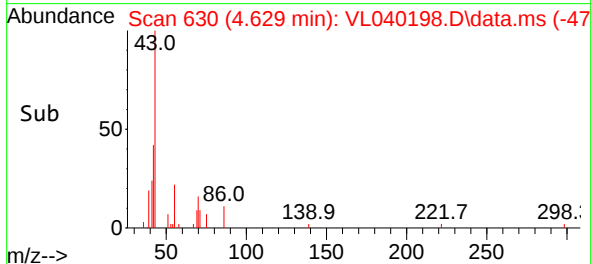
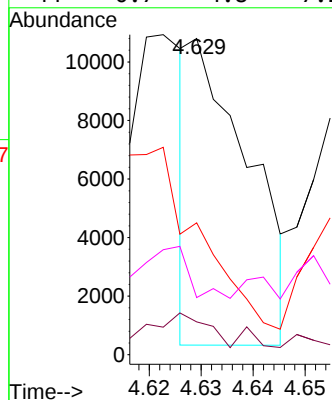
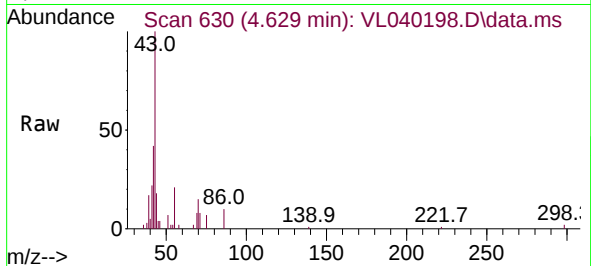


#23
 Vinyl Acetate
 Concen: 0.244 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040198.D
 Acq: 21 Feb 2023 17:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-22DL

Tgt Ion: 43 Resp: 8257

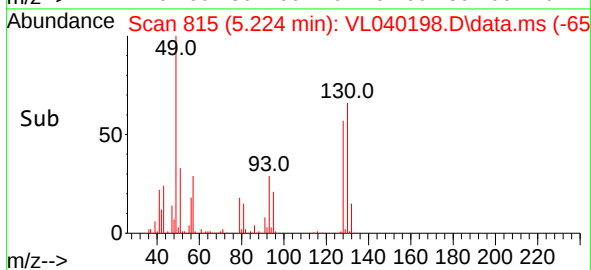
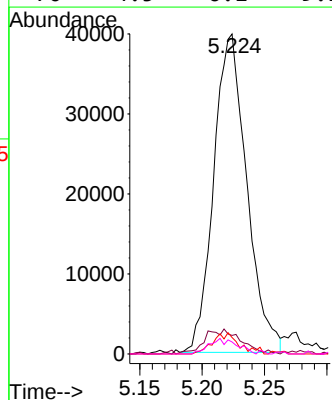
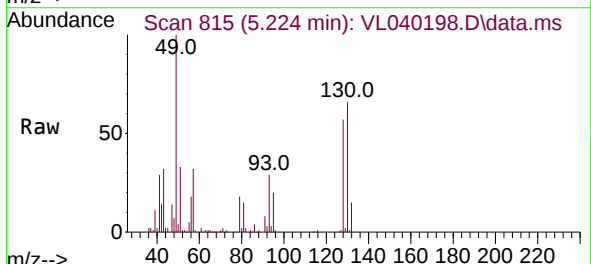
Ion	Ratio	Lower	Upper
43	100		
86	13.1	5.6	8.4#
42	54.4	7.6	11.4#
44	0.7	4.8	7.2#

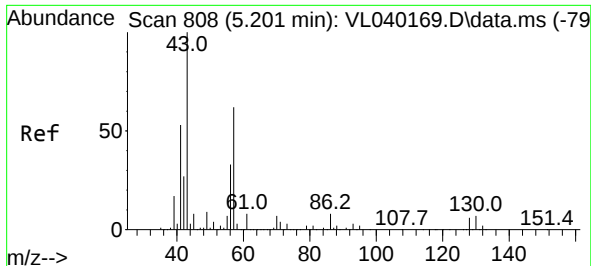


#25
 Ethyl Acetate
 Concen: 0.355 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.006 min
 Lab File: VL040198.D
 Acq: 21 Feb 2023 17:10

Tgt Ion: 43 Resp: 73484

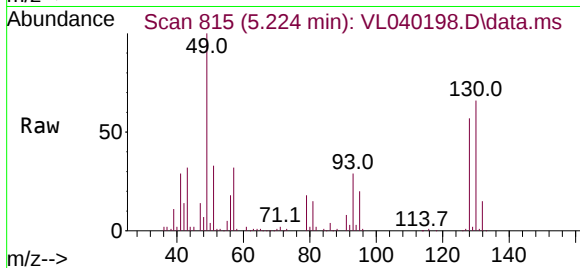
Ion	Ratio	Lower	Upper
43	100		
45	9.4	8.3	12.5
61	5.7	8.4	12.6#
70	4.5	6.1	9.1#



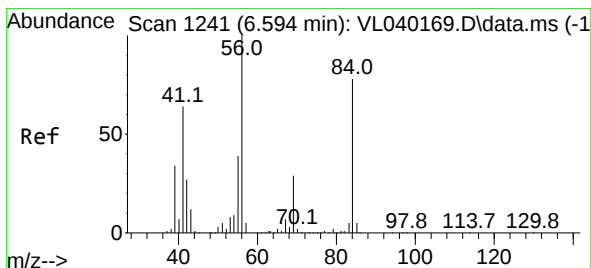
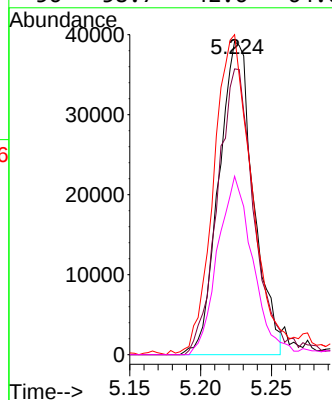
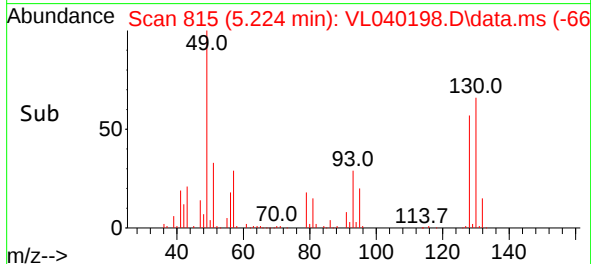


#26
Hexane
Concen: 0.751 ppbv
RT: 5.224 min Scan# 815
Delta R.T. -0.000 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

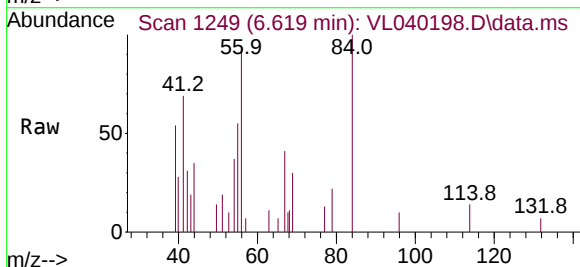
Instrument :
MSVOA_L
ClientSampleId :
IA-22DL



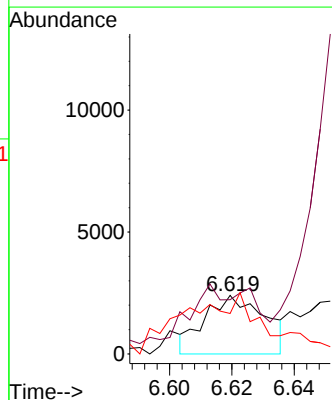
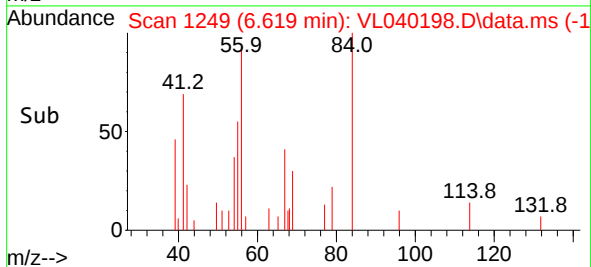
Tgt Ion: 57 Resp: 66752
Ion Ratio Lower Upper
57 100
41 98.4 74.3 111.5
43 119.4 193.0 289.4#
56 58.7 42.6 64.0

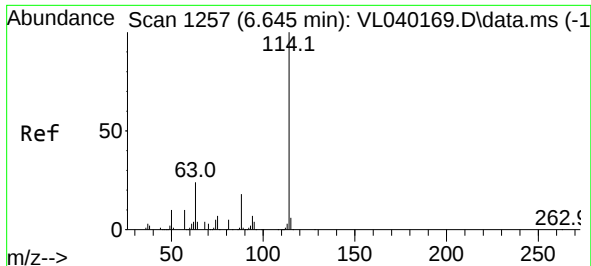


#30
Cyclohexane
Concen: 0.046 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. -0.003 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10



Tgt Ion: 84 Resp: 3206
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9#
41 162.1 67.8 101.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

IA-22DL

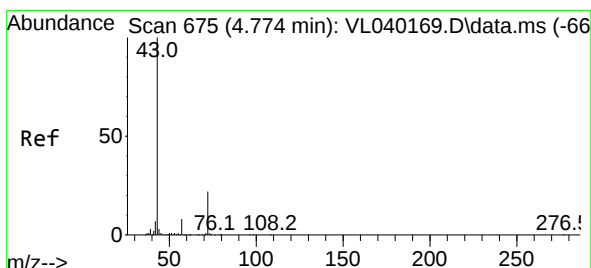
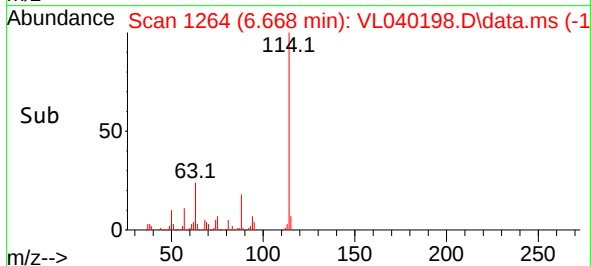
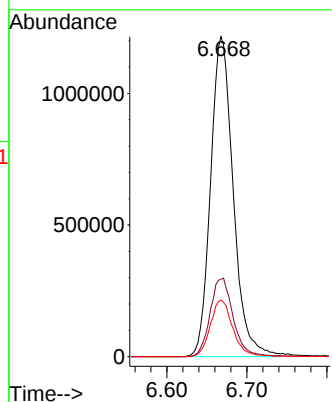
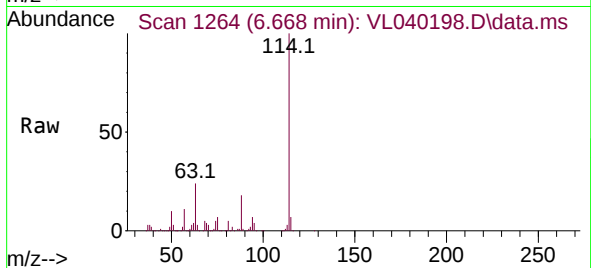
Tgt Ion:114 Resp: 2391269

Ion Ratio Lower Upper

114 100

63 25.2 20.4 30.6

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 0.121 ppbv

RT: 4.806 min Scan# 685

Delta R.T. 0.010 min

Lab File: VL040198.D

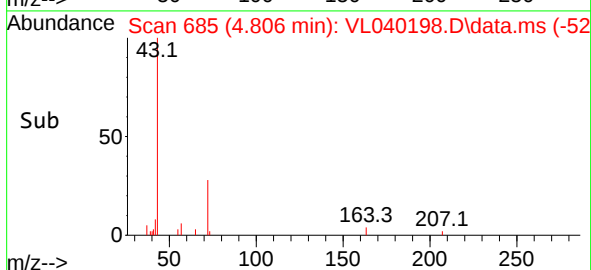
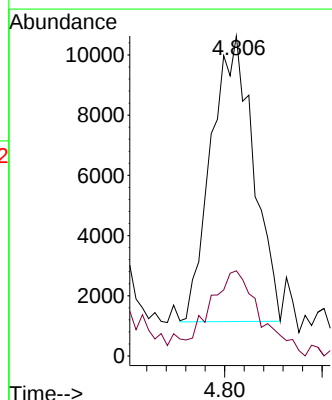
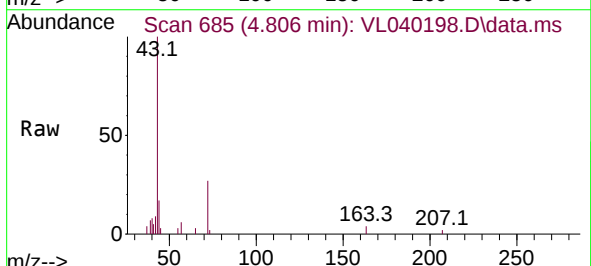
Acq: 21 Feb 2023 17:10

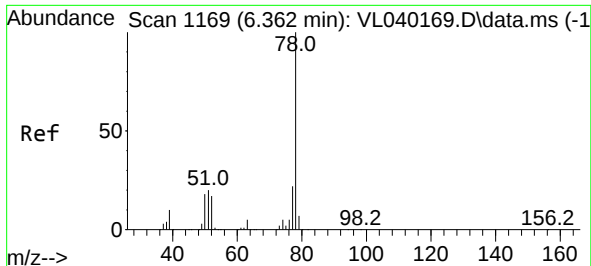
Tgt Ion: 43 Resp: 14294

Ion Ratio Lower Upper

43 100

72 40.2 17.8 26.8#





#36

Benzene

Concen: 0.282 ppbv

RT: 6.385 min Scan# 1169

Delta R.T. -0.003 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

IA-22DL

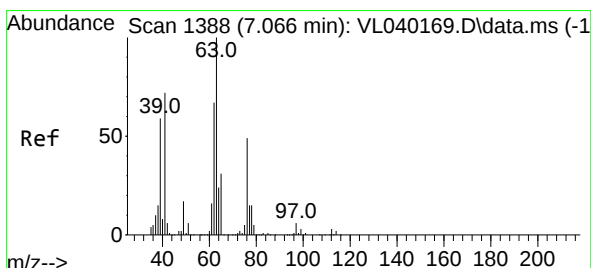
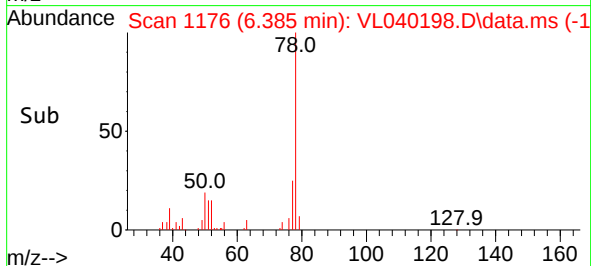
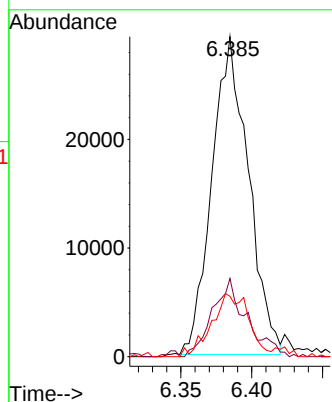
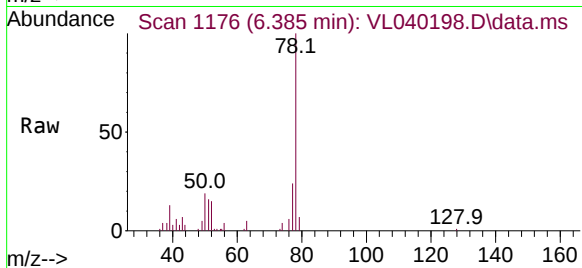
Tgt Ion: 78 Resp: 52423

Ion Ratio Lower Upper

78 100

77 24.6 17.5 26.3

50 19.0 14.6 22.0



#39

1,2-Dichloropropane

Concen: 8.193 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.424 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

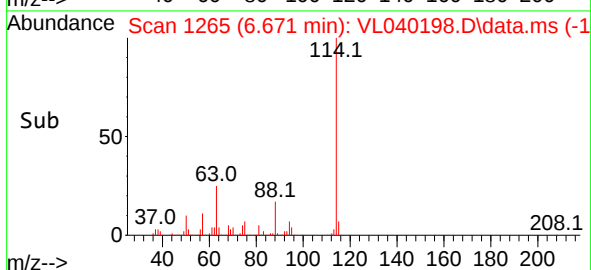
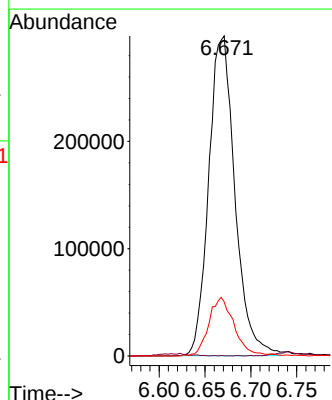
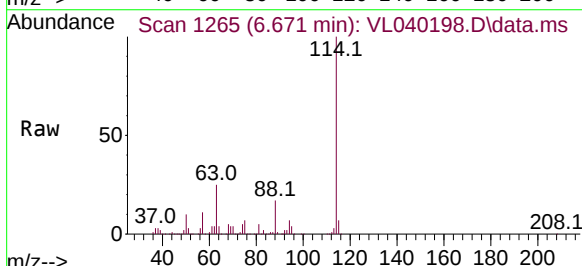
Tgt Ion: 63 Resp: 593134

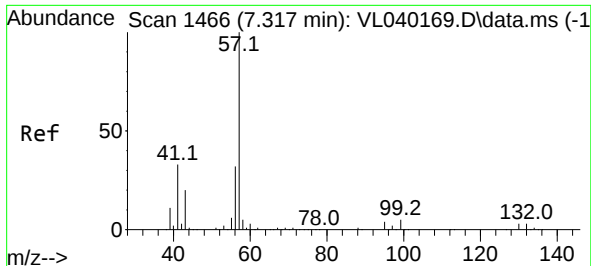
Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 16.9 54.0 81.0#





#44

2,2,4-Trimethylpentane

Concen: 0.058 ppbv

RT: 7.346 min Scan# 1466

Delta R.T. -0.000 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

IA-22DL

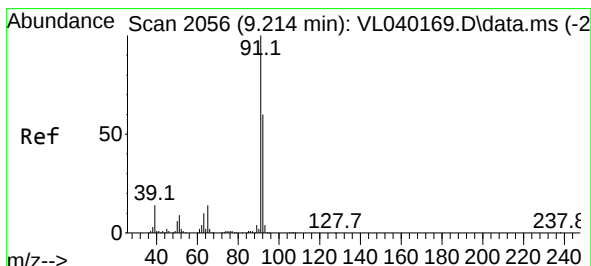
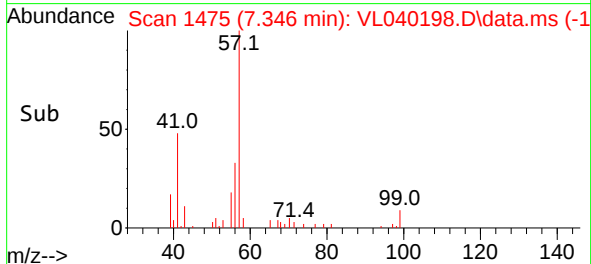
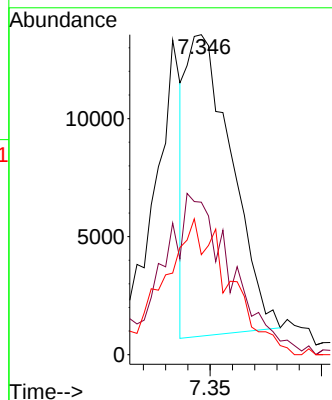
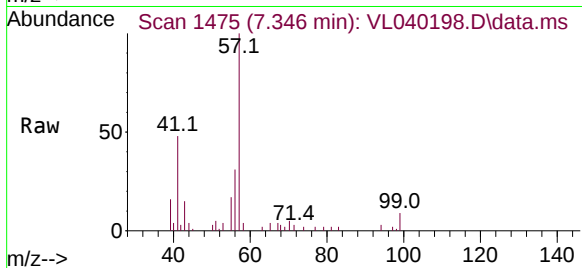
Tgt Ion: 57 Resp: 18077

Ion Ratio Lower Upper

57 100

41 85.0 26.2 39.4#

56 68.7 24.9 37.3#



#53

Toluene

Concen: 0.623 ppbv

RT: 9.243 min Scan# 2065

Delta R.T. -0.003 min

Lab File: VL040198.D

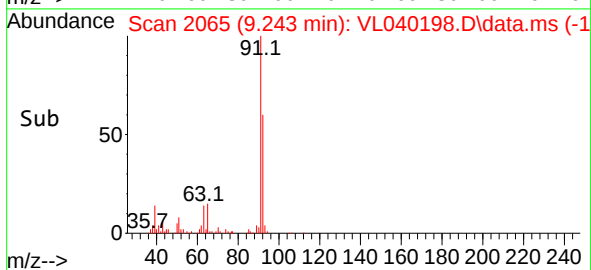
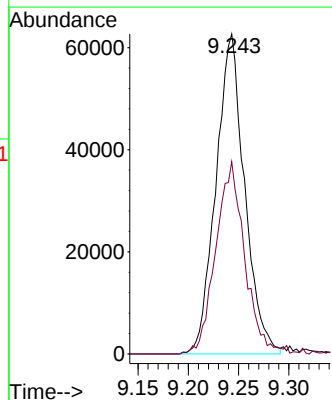
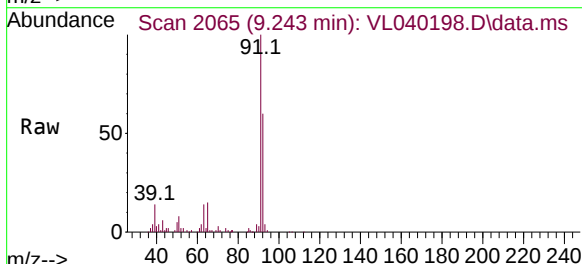
Acq: 21 Feb 2023 17:10

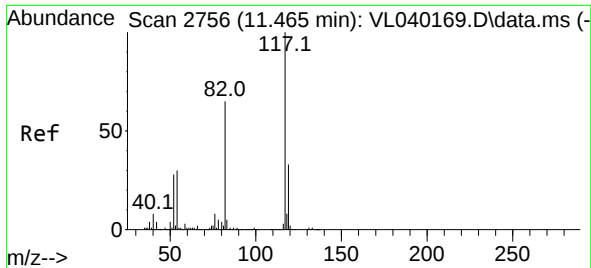
Tgt Ion: 91 Resp: 124246

Ion Ratio Lower Upper

91 100

92 61.0 48.9 73.3

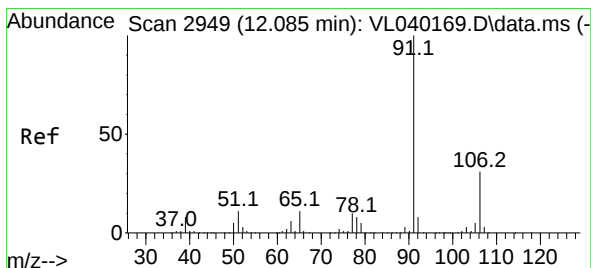
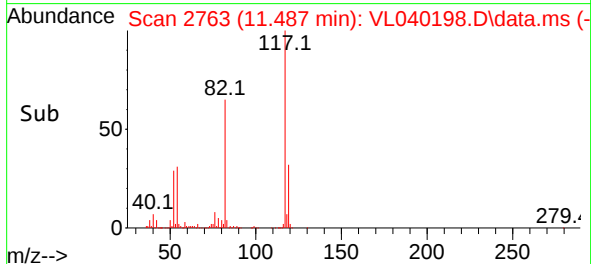
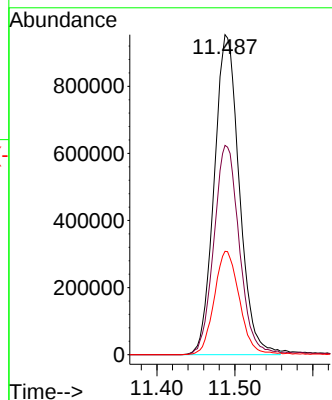
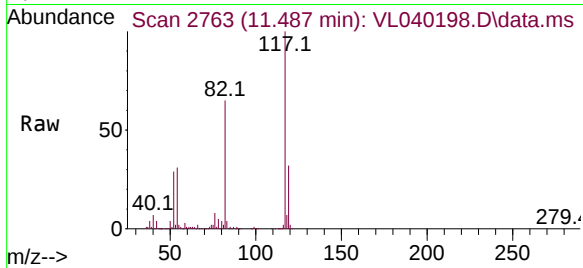




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

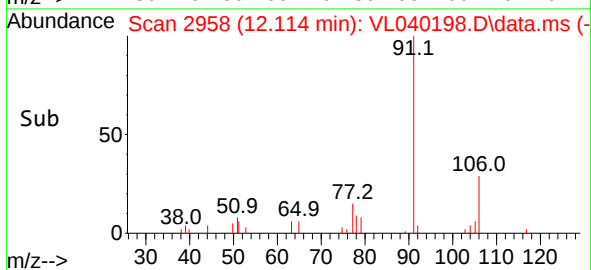
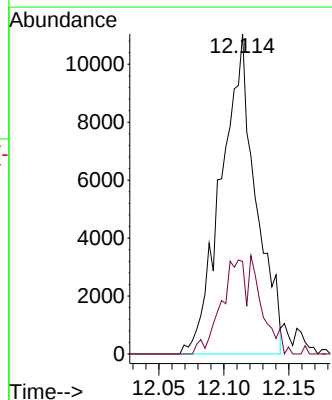
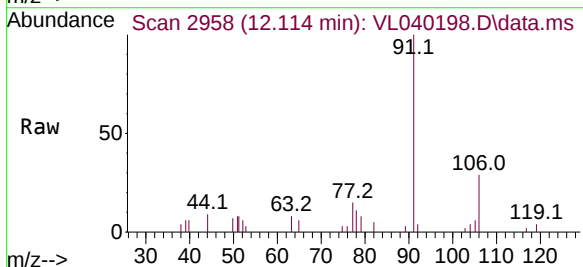
Instrument :
MSVOA_L
ClientSampleId :
IA-22DL

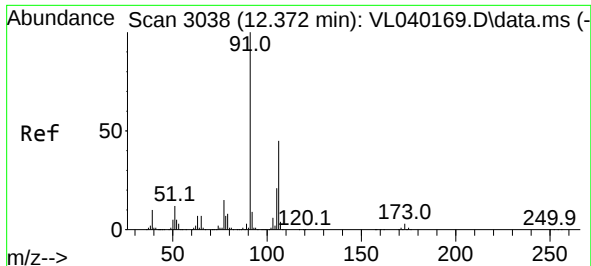
Tgt Ion:117 Resp: 2138815
Ion Ratio Lower Upper
117 100
82 67.6 53.3 79.9
119 32.8 24.6 37.0



#58
Ethyl Benzene
Concen: 0.079 ppbv
RT: 12.114 min Scan# 2958
Delta R.T. -0.003 min
Lab File: VL040198.D
Acq: 21 Feb 2023 17:10

Tgt Ion: 91 Resp: 20408
Ion Ratio Lower Upper
91 100
106 28.9 24.9 37.3





#59

m/p-Xylene

Concen: 0.035 ppbv

RT: 12.394 min Scan# 3038

Delta R.T. -0.003 min

Lab File: VL040198.D

Acq: 21 Feb 2023 17:10

Instrument :

MSVOA_L

ClientSampleId :

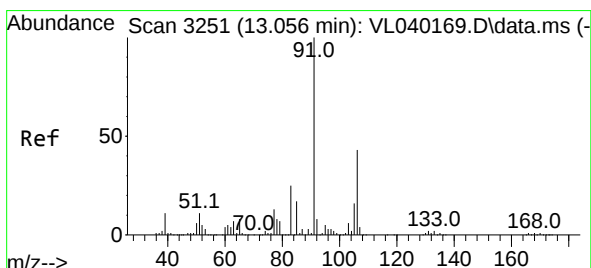
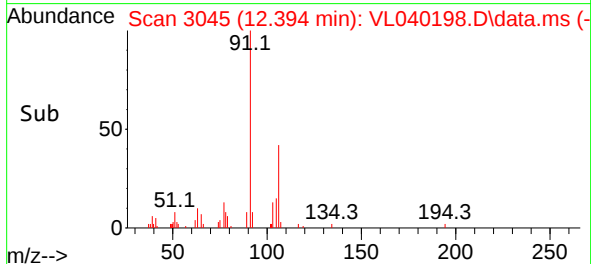
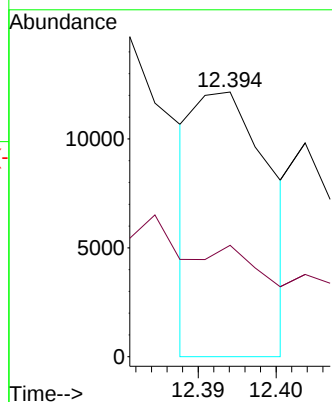
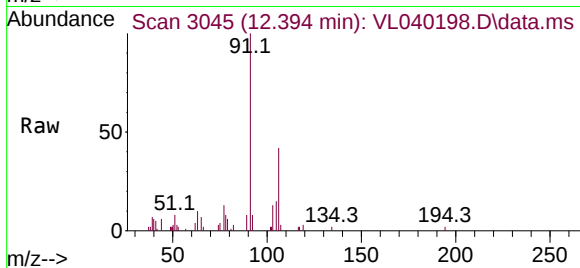
IA-22DL

Tgt Ion: 91 Resp: 8086

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



#60

o-Xylene

Concen: 0.093 ppbv

RT: 13.079 min Scan# 3258

Delta R.T. -0.006 min

Lab File: VL040198.D

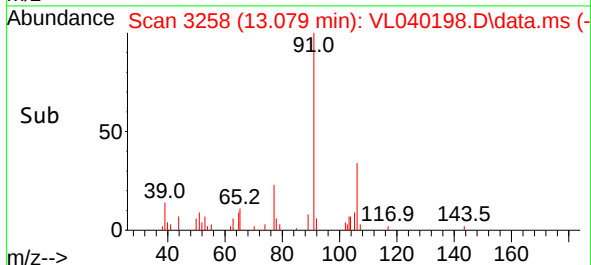
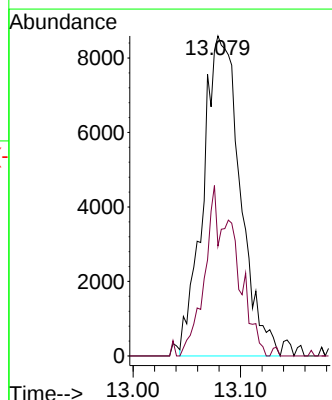
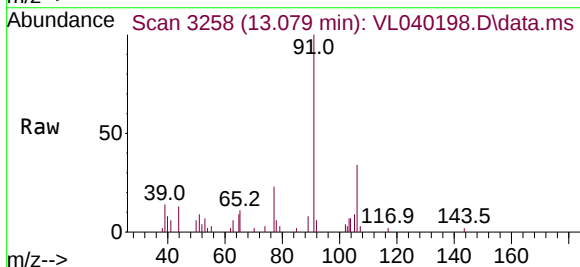
Acq: 21 Feb 2023 17:10

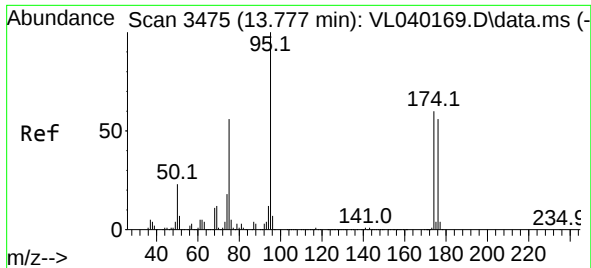
Tgt Ion: 91 Resp: 20686

Ion Ratio Lower Upper

91 100

106 44.3 21.6 65.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.878 ppbv
 RT: 13.799 min Scan# 34
 Delta R.T. -0.006 min
 Lab File: VL040198.D
 Acq: 21 Feb 2023 17:10

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-22DL

Tgt Ion: 95 Resp: 1737355
 Ion Ratio Lower Upper
 95 100
 174 60.0 48.2 72.2
 175 4.4 3.4 5.2

