

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041797.D
 Acq On : 18 Dec 2024 17:10
 Operator : SY/MD
 Sample : P5293-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB9

Quant Time: Dec 19 07:56:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

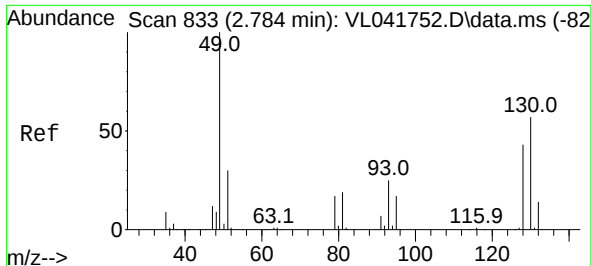
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	71328	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	174211	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	152989	10.000	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	130229	10.215	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	5246	0.413	ppbv	94
4) Chloromethane	1.534	50	1923	0.387	ppbv	98
6) Bromomethane	1.670	94	78	0.033	ppbv #	3
9) Propene	1.563	41	7701	1.527	ppbv	88
11) Trichlorofluoromethane	1.884	101	2866	0.213	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.146	101	492	0.048	ppbv #	14
13) Ethanol	1.725	45	205824	493.023	ppbv	94
15) Acetone	1.842	43	44740	3.224	ppbv #	85
16) 1,3-Butadiene	1.605	39	1122	0.205	ppbv #	69
17) tert-Butyl alcohol	2.046	59	469	0.034	ppbv #	71
19) Isopropyl Alcohol	1.894	45	5535	0.665	ppbv #	1
20) Methylene Chloride	2.068	84	50434	12.744	ppbv	99
21) Allyl Chloride	2.068	41	1923	0.255	ppbv #	62
23) Vinyl Acetate	2.479	43	6118	0.949	ppbv #	38
25) Ethyl Acetate	2.835	43	16724	0.648	ppbv #	84
26) Hexane	2.839	57	20909	2.134	ppbv #	31
29) Chloroform	2.858	83	44135	2.956	ppbv	99
30) Cyclohexane	3.874	84	328	0.039	ppbv #	1
34) 2-Butanone	2.570	43	2830	0.202	ppbv	99
35) Carbon Tetrachloride	3.781	117	389	0.031	ppbv #	14
36) Benzene	3.670	78	3686	0.205	ppbv	97
39) 1,2-Dichloropropane	3.971	63	50466	7.743	ppbv #	17
44) 2,2,4-Trimethylpentane	4.661	57	2181	0.071	ppbv #	25
53) Toluene	6.962	91	1859	0.091	ppbv #	21
60) o-Xylene	9.979	91	1023	0.046	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	1361	0.058	ppbv #	62

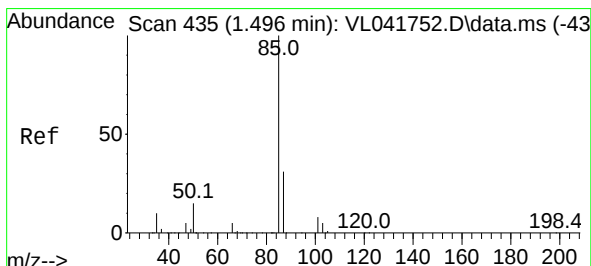
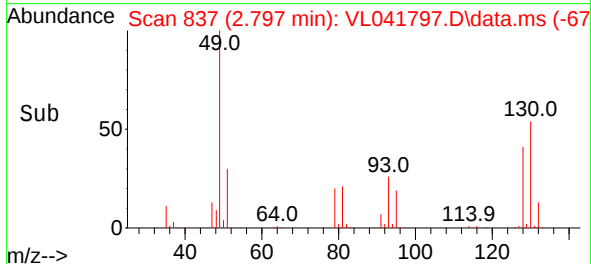
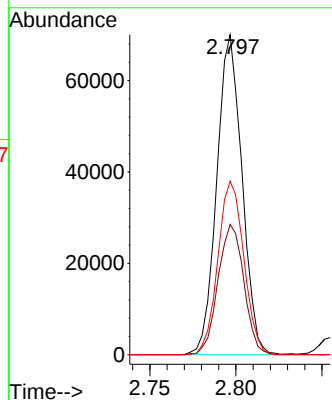
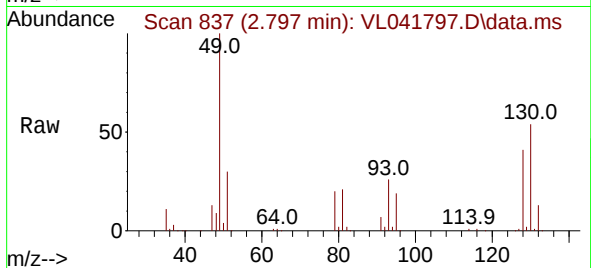
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 841
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

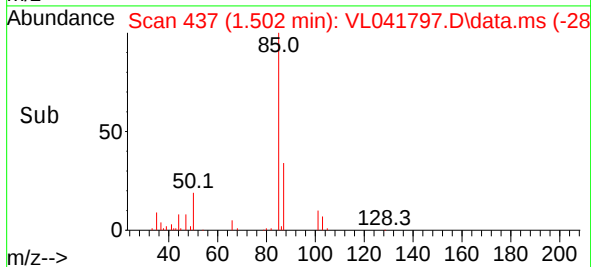
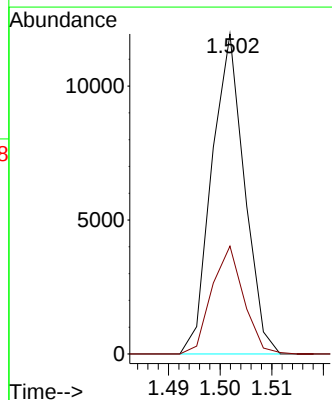
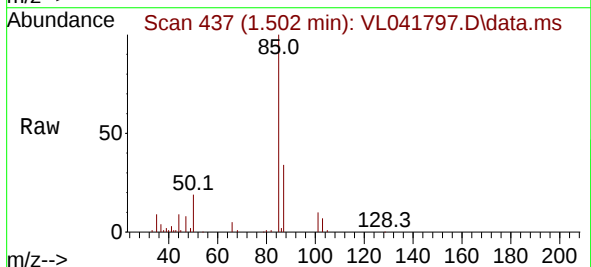
Instrument :
MSVOA_L
ClientSampleId :
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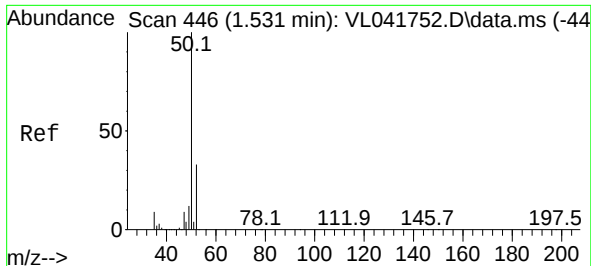
Tgt Ion: 49 Resp: 71328
Ion Ratio Lower Upper
49 100
128 41.6 21.6 64.6
130 55.8 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.413 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 85 Resp: 5246
Ion Ratio Lower Upper
85 100
87 33.7 24.5 36.7

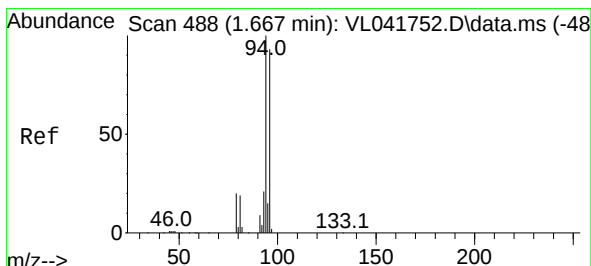
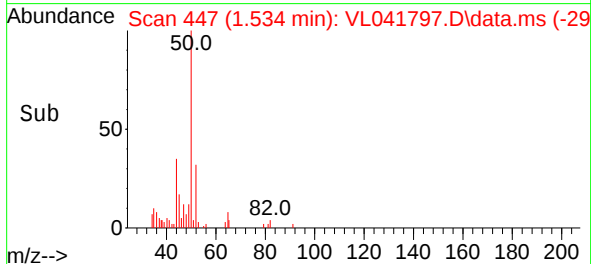
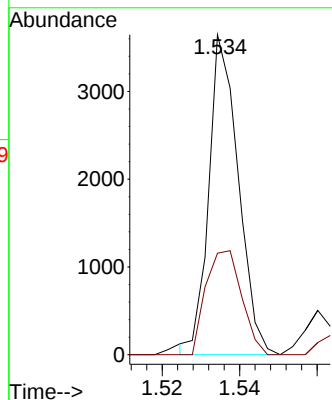
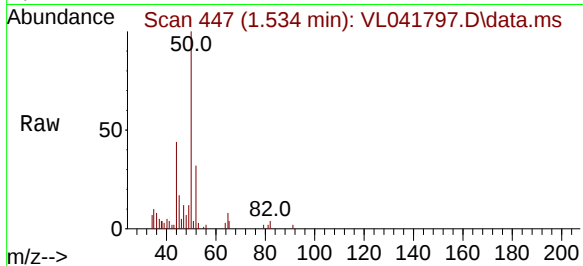




#4
Chloromethane
Concen: 0.387 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

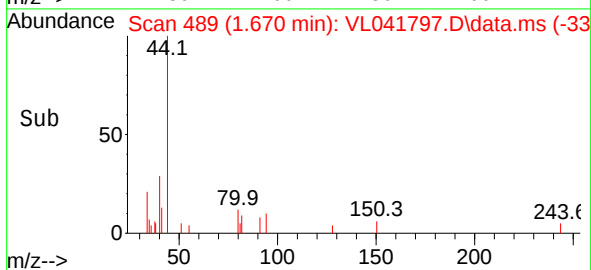
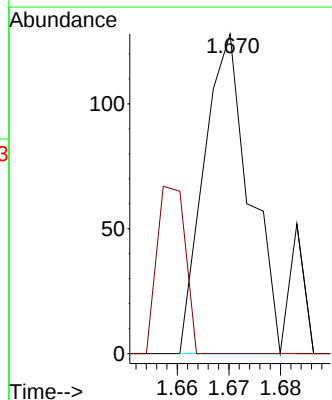
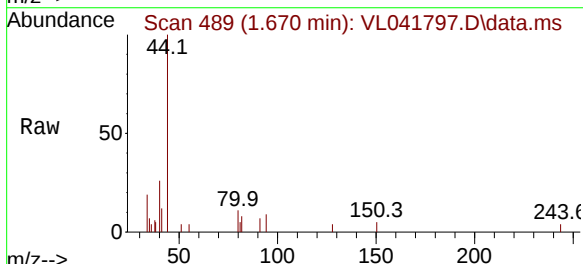
Instrument :
MSVOA_L
ClientSampleId :
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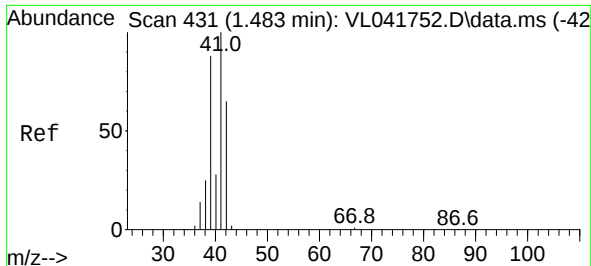
Tgt Ion: 50 Resp: 1923
Ion Ratio Lower Upper
50 100
52 31.7 26.2 39.2



#6
Bromomethane
Concen: 0.033 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 94 Resp: 78
Ion Ratio Lower Upper
94 100
96 0.0 74.7 112.1#





#9

Propene

Concen: 1.527 ppbv

RT: 1.563 min Scan# 41

Delta R.T. 0.080 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

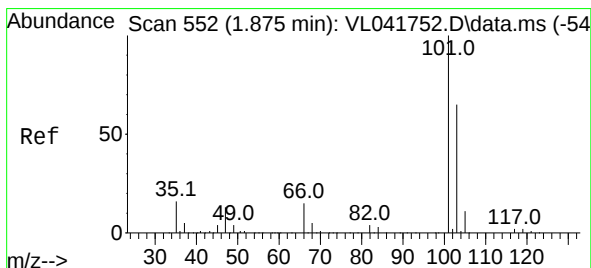
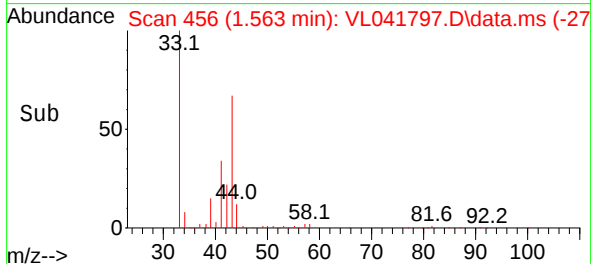
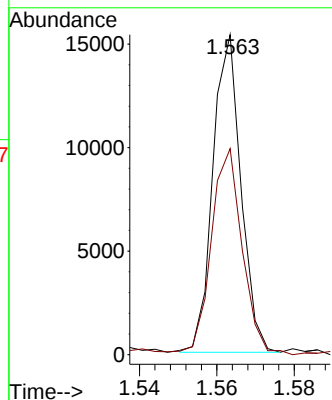
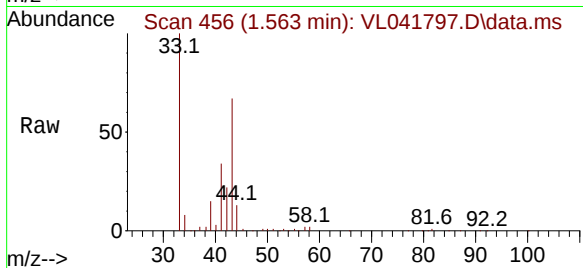
C0AB9

Tgt Ion: 41 Resp: 7701

Ion Ratio Lower Upper

41 100

42 75.3 52.4 78.6



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.009 min

Lab File: VL041797.D

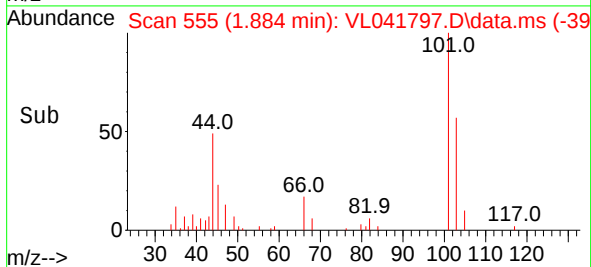
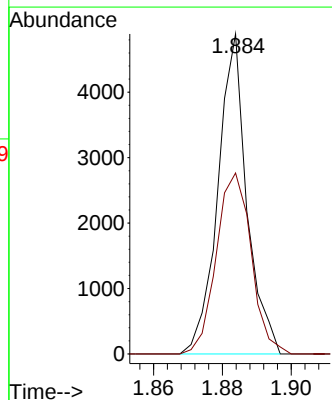
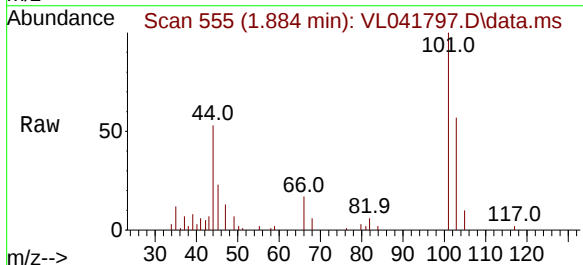
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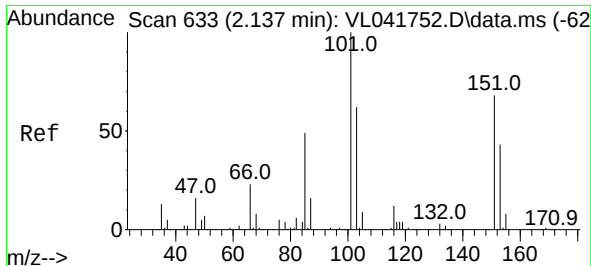
Tgt Ion: 101 Resp: 2866

Ion Ratio Lower Upper

101 100

103 56.6 51.8 77.8

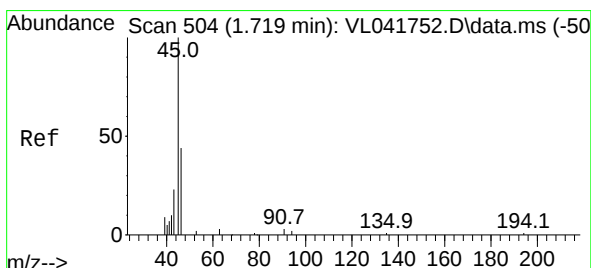
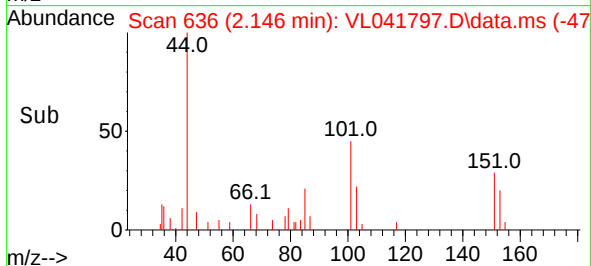
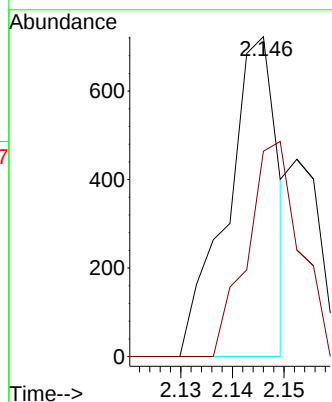
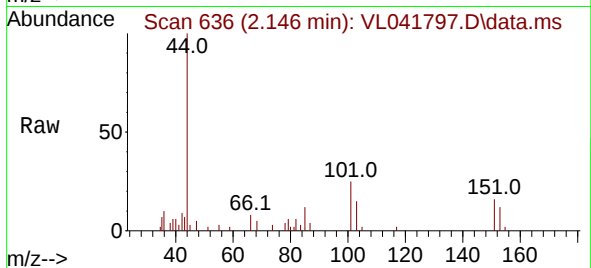




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.048 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

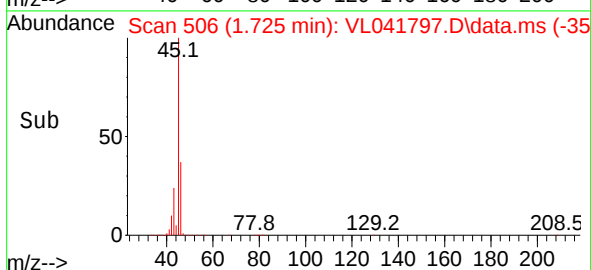
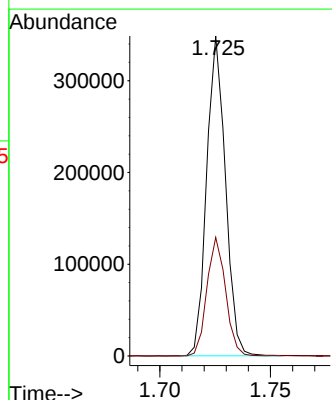
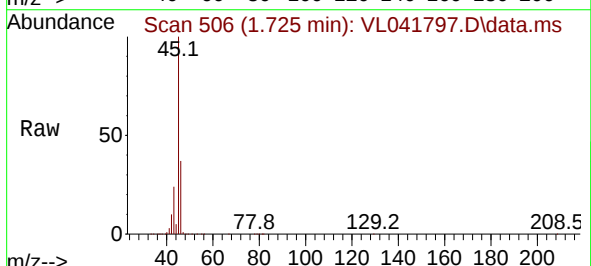
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

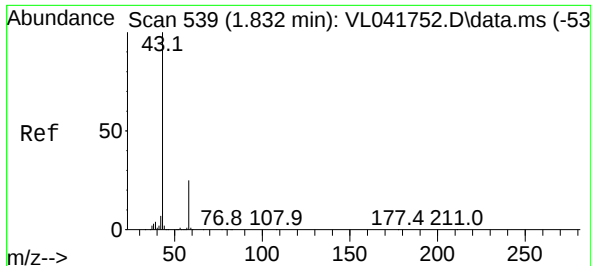
Tgt Ion:101 Resp: 492
Ion Ratio Lower Upper
101 100
151 0.0 56.8 85.2#



#13
Ethanol
Concen: 493.023 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 45 Resp: 205824
Ion Ratio Lower Upper
45 100
46 37.1 16.4 65.8





#15

Acetone

Concen: 3.224 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

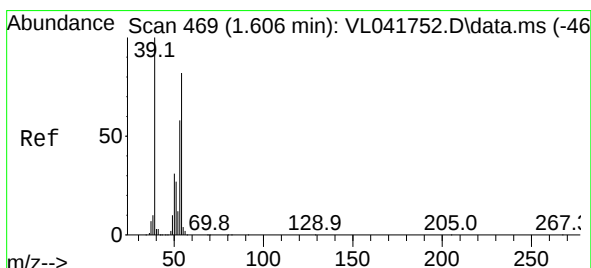
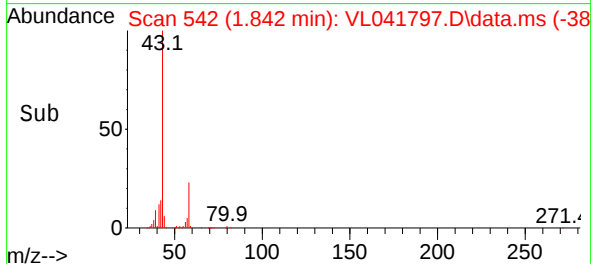
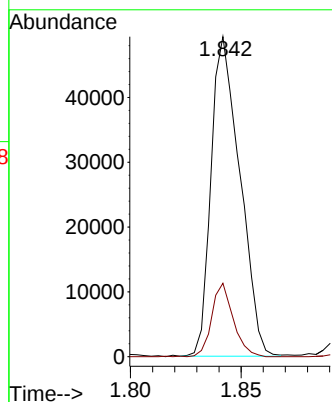
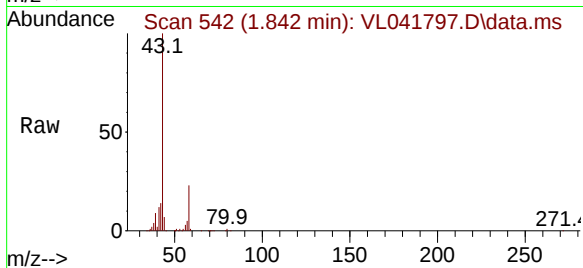
C0AB9

Tgt Ion: 43 Resp: 44740

Ion Ratio Lower Upper

43 100

58 17.2 19.7 29.5#



#16

1,3-Butadiene

Concen: 0.205 ppbv

RT: 1.605 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL041797.D

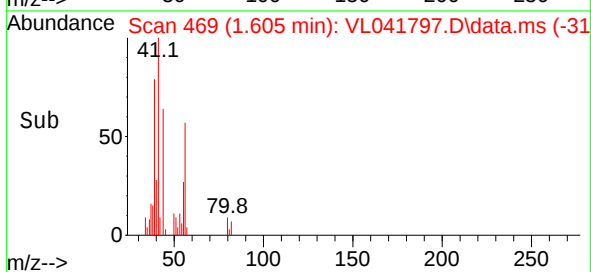
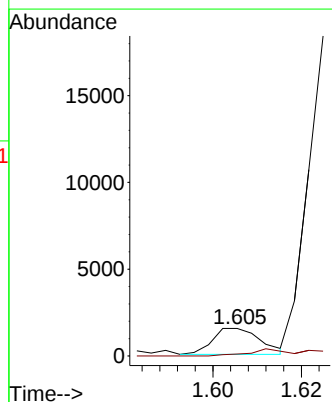
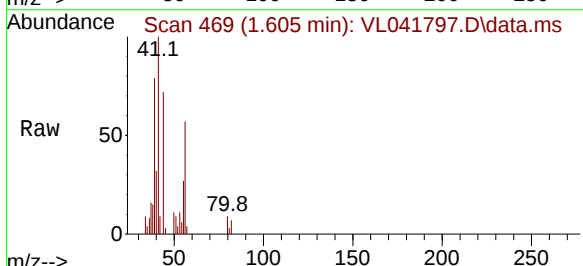
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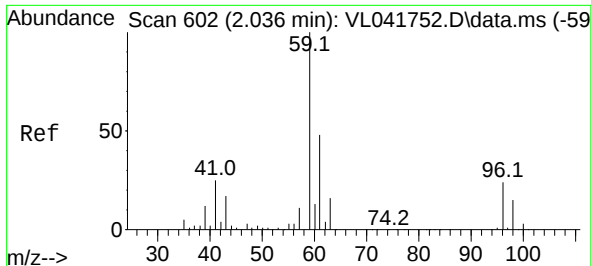
Tgt Ion: 39 Resp: 1122

Ion Ratio Lower Upper

39 100

54 46.9 58.4 87.6#

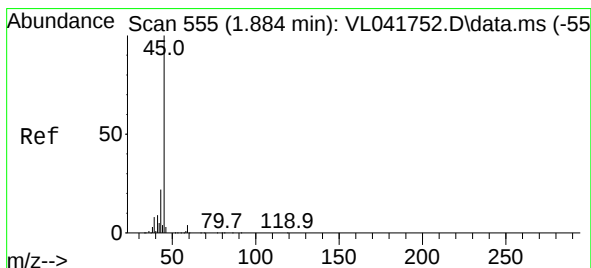
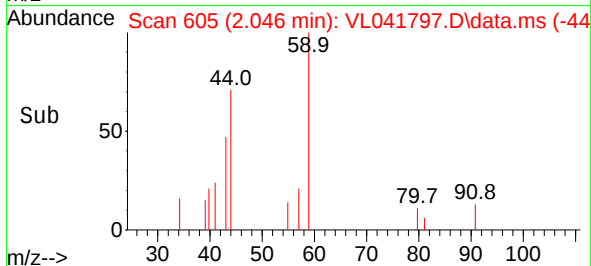
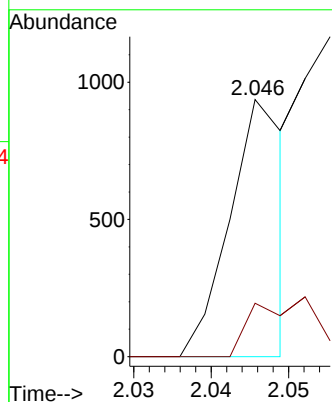
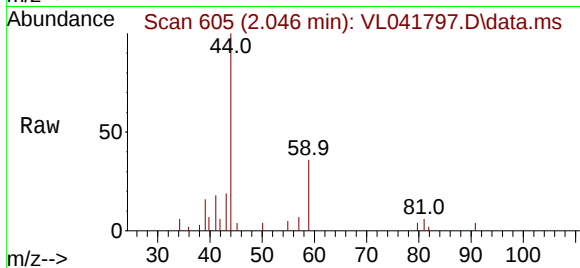




#17
tert-Butyl alcohol
Concen: 0.034 ppbv
RT: 2.046 min Scan# 602
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

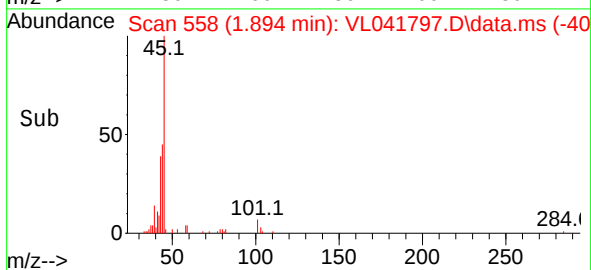
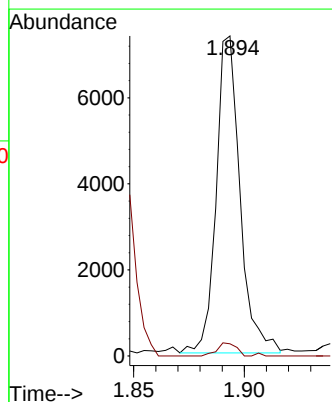
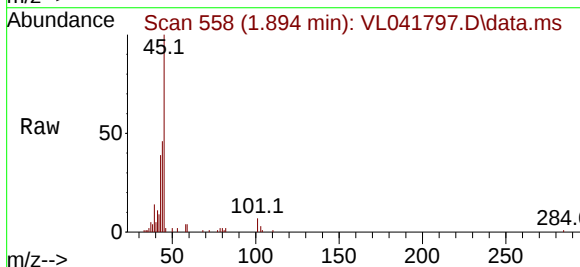
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MSVOA_L
ClientSampleId :
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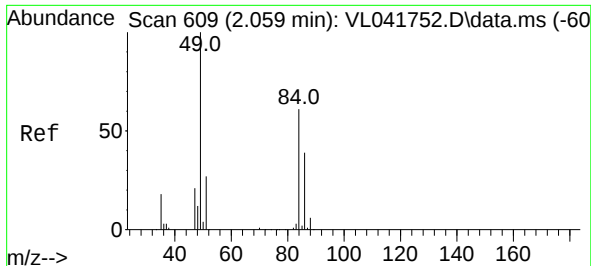
Tgt Ion: 59 Resp: 469
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 0.665 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 45 Resp: 5535
Ion Ratio Lower Upper
45 100
58 138.8 33.3 49.9#





#20

Methylene Chloride

Concen: 12.744 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

Tgt Ion: 84 Resp: 50434

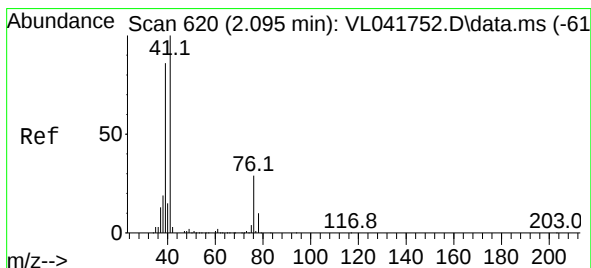
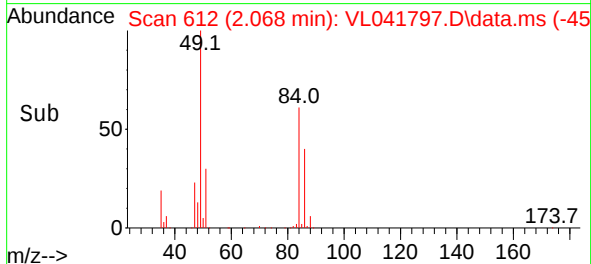
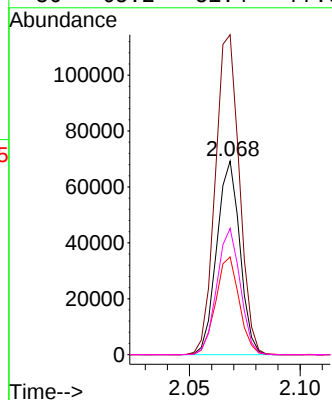
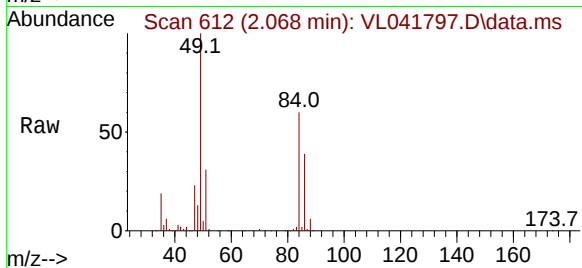
Ion Ratio Lower Upper

84 100

49 165.3 132.6 198.8

51 50.5 37.6 56.4

86 65.2 51.4 77.0



#21

Allyl Chloride

Concen: 0.255 ppbv

RT: 2.068 min Scan# 612

Delta R.T. -0.026 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

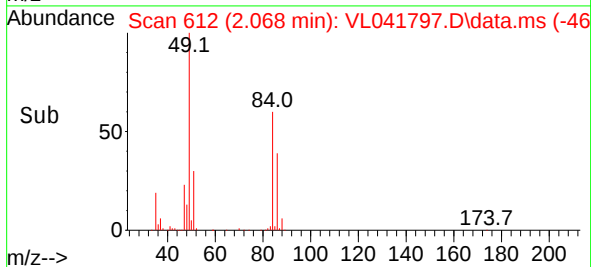
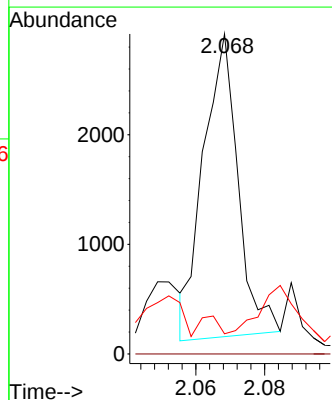
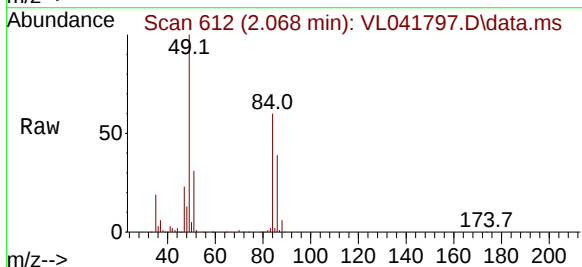
Tgt Ion: 41 Resp: 1923

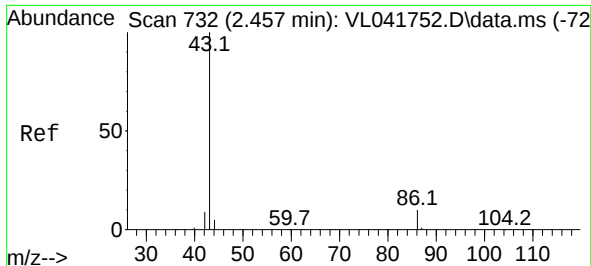
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 56.0 69.2 103.8#

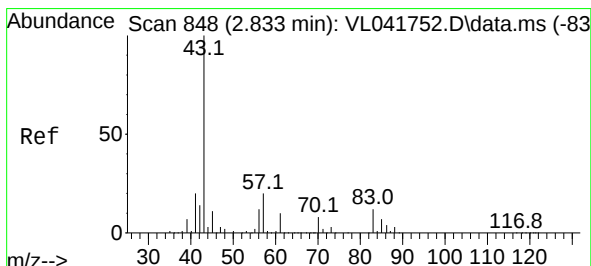
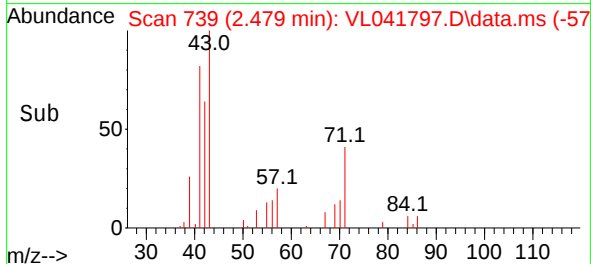
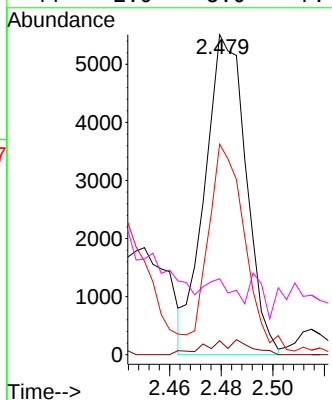
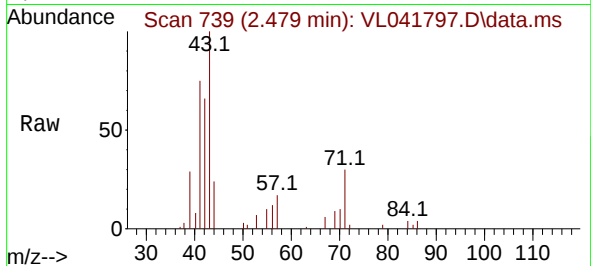




#23
 Vinyl Acetate
 Concen: 0.949 ppbv
 RT: 2.479 min Scan# 741
 Delta R.T. 0.022 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10

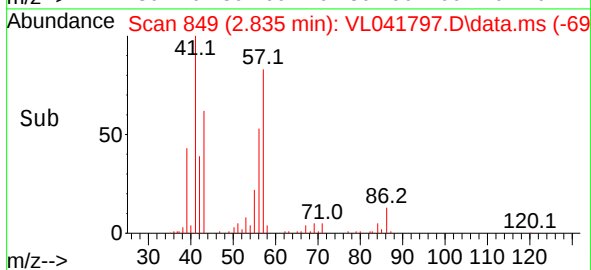
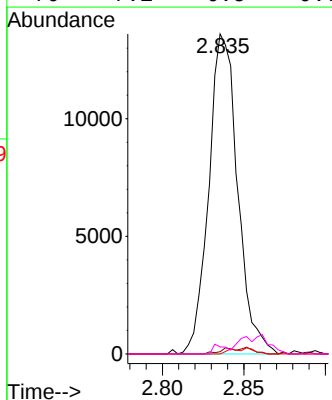
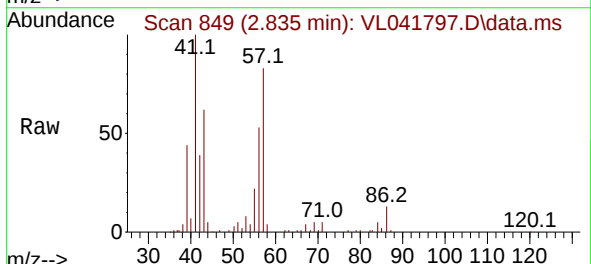
Instrument :
 MSVOA_1
 ClientSampleId :
 C0AB9

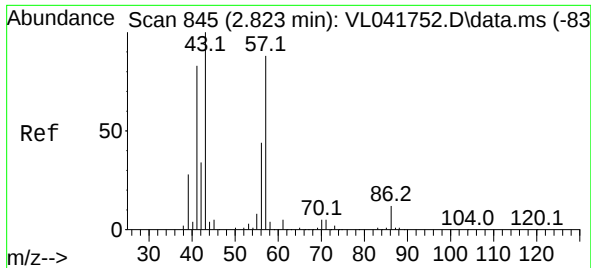
Tgt Ion:	43	Resp:	6118
Ion	Ratio	Lower	Upper
43	100		
86	4.4	6.6	10.0#
42	60.4	8.2	12.2#
44	2.9	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.648 ppbv
 RT: 2.835 min Scan# 849
 Delta R.T. 0.003 min
 Lab File: VL041797.D
 Acq: 18 Dec 2024 17:10

Tgt Ion:	43	Resp:	16724
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.1	12.1#
61	1.4	7.0	10.6#
70	7.1	6.5	9.7

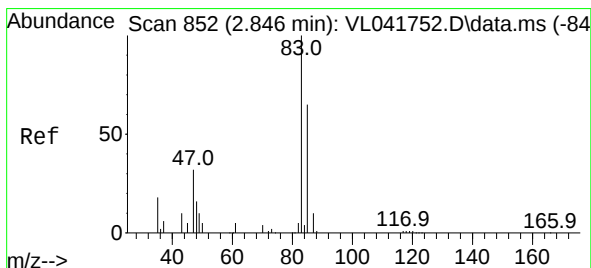
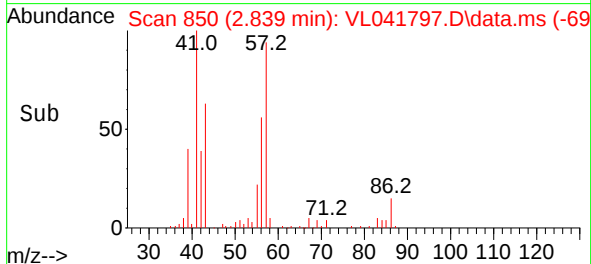
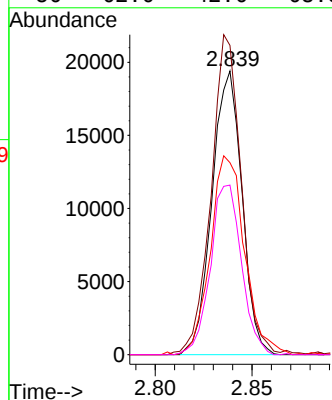
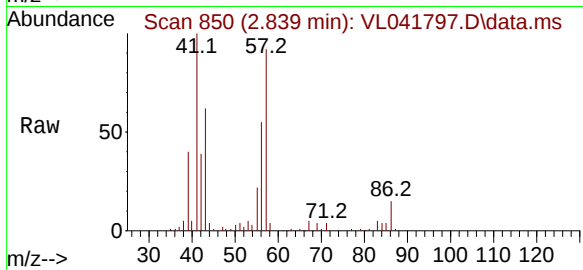




#26
Hexane
Concen: 2.134 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

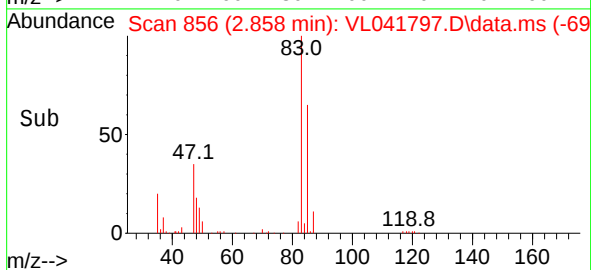
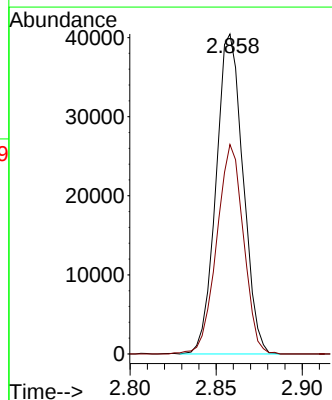
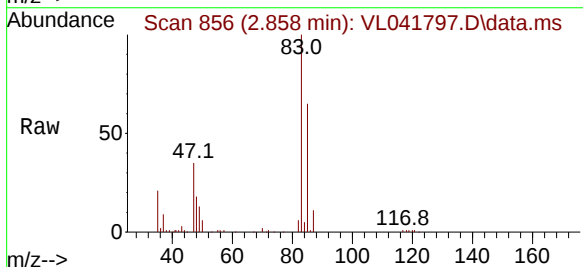
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

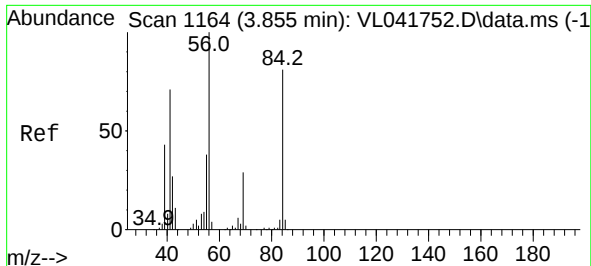
Tgt Ion: 57 Resp: 20909
Ion Ratio Lower Upper
57 100
41 113.7 79.6 119.4
43 80.4 211.0 316.6#
56 62.0 42.6 63.8



#29
Chloroform
Concen: 2.956 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 83 Resp: 44135
Ion Ratio Lower Upper
83 100
85 65.5 51.8 77.6





#30

Cyclohexane

Concen: 0.039 ppbv

RT: 3.874 min Scan# 1164

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

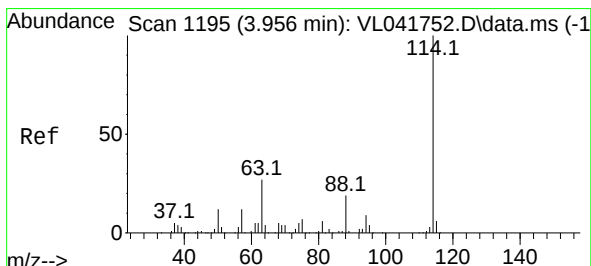
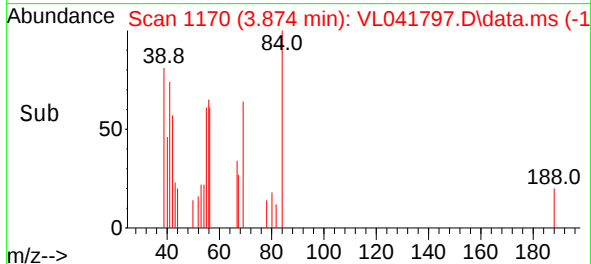
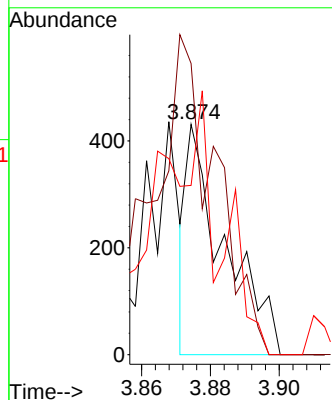
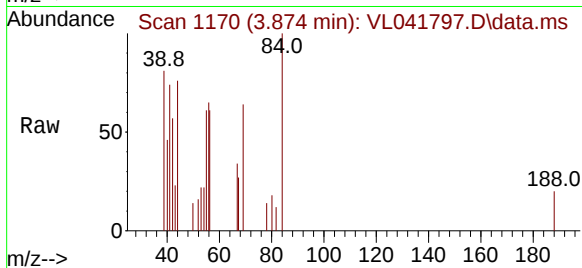
Tgt Ion: 84 Resp: 328

Ion Ratio Lower Upper

84 100

56 0.0 102.3 153.5#

41 217.1 74.0 111.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

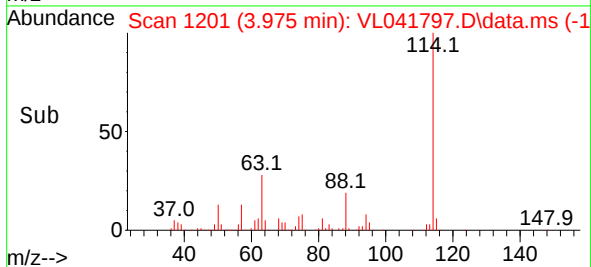
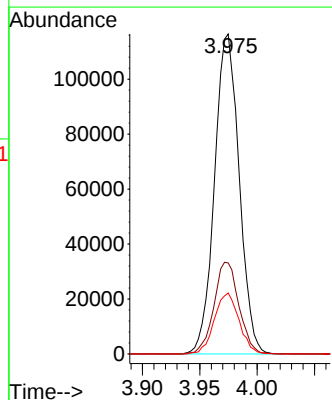
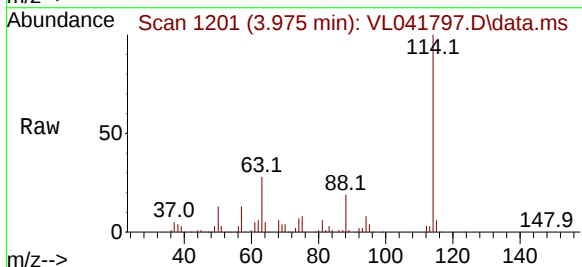
Tgt Ion: 114 Resp: 174211

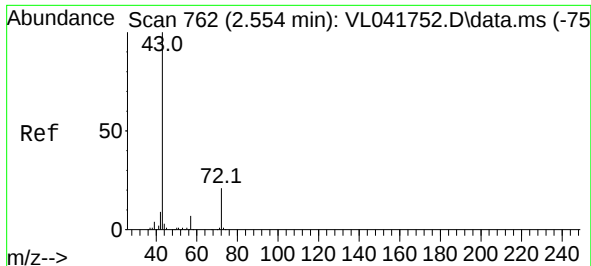
Ion Ratio Lower Upper

114 100

63 29.1 21.8 32.8

88 19.1 14.8 22.2





#34

2-Butanone

Concen: 0.202 ppbv

RT: 2.570 min Scan# 7

Delta R.T. 0.016 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

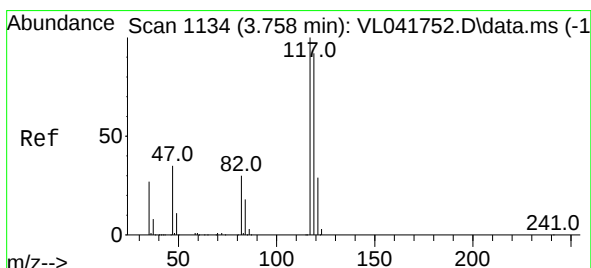
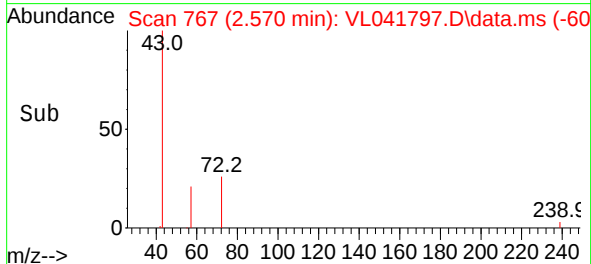
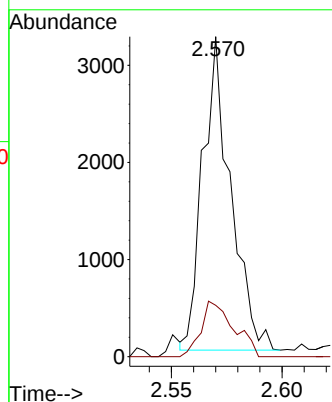
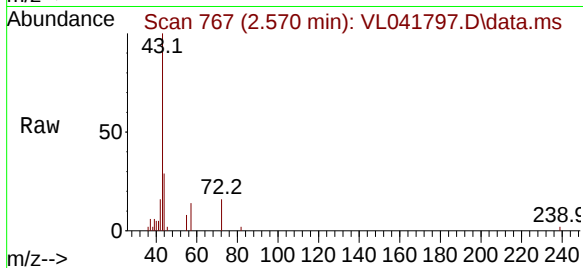
C0AB9

Tgt Ion: 43 Resp: 2830

Ion Ratio Lower Upper

43 100

72 20.6 16.8 25.2



#35

Carbon Tetrachloride

Concen: 0.031 ppbv

RT: 3.781 min Scan# 1141

Delta R.T. 0.022 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

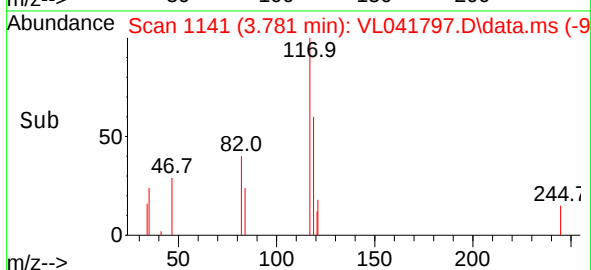
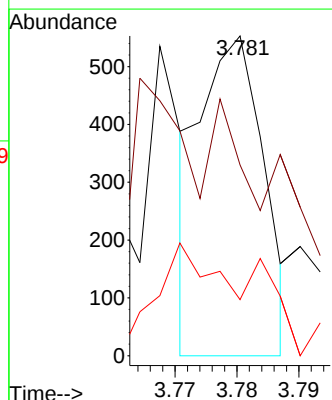
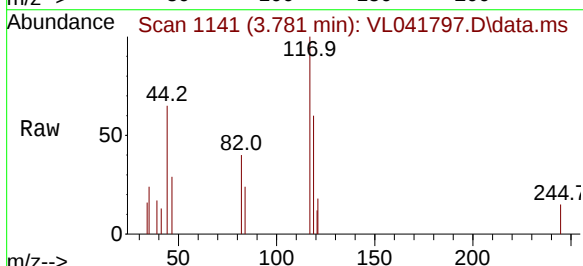
Tgt Ion: 117 Resp: 389

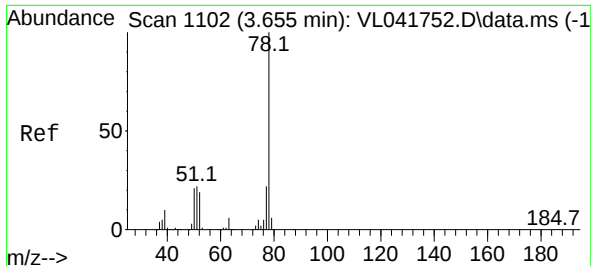
Ion Ratio Lower Upper

117 100

119 0.0 73.7 110.5#

121 0.0 23.0 34.4#

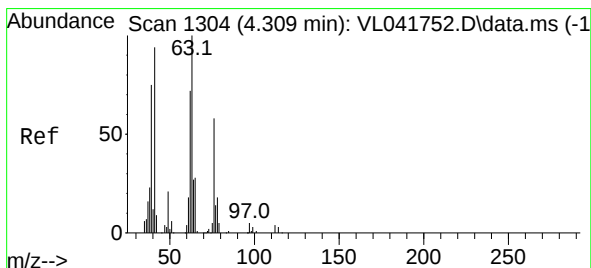
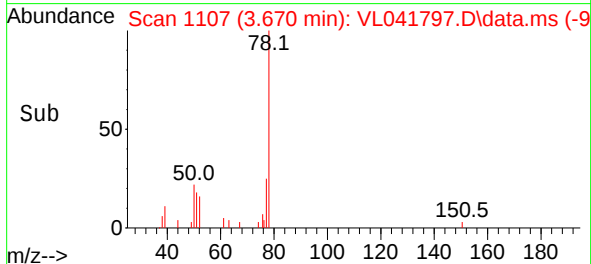
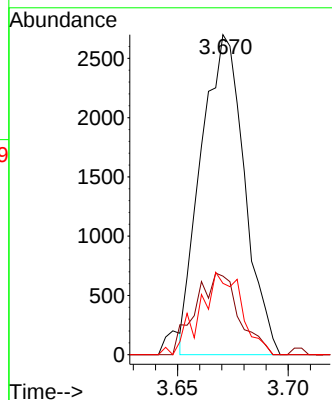
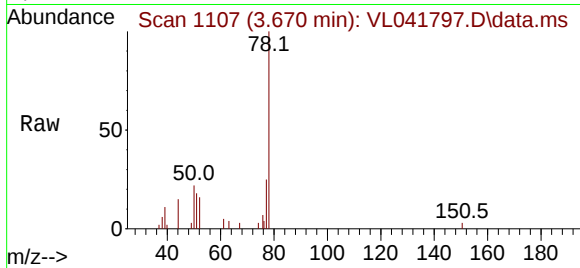




#36
Benzene
Concen: 0.205 ppbv
RT: 3.670 min Scan# 1107
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

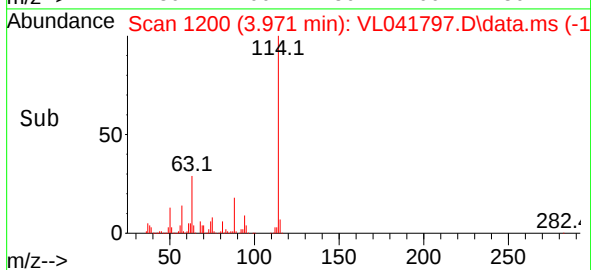
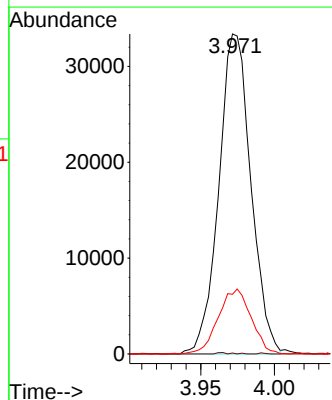
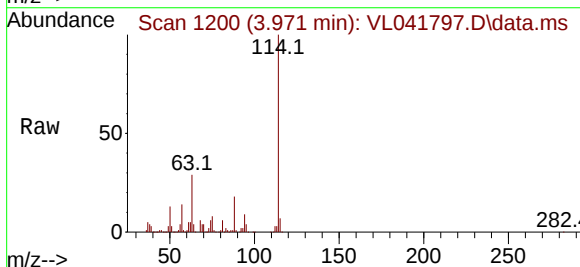
Instrument :
MSVOA_L
ClientSampleId :
C0AB9

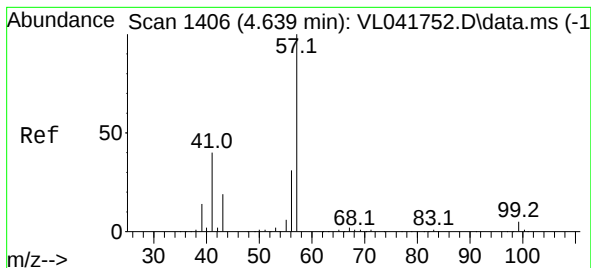
Tgt Ion: 78 Resp: 3686
Ion Ratio Lower Upper
78 100
77 24.6 17.8 26.6
50 22.3 17.2 25.8



#39
1,2-Dichloropropane
Concen: 7.743 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. -0.337 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 63 Resp: 50466
Ion Ratio Lower Upper
63 100
41 0.3 75.3 112.9#
62 18.7 57.3 85.9#





#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 4.661 min Scan# 1406

Delta R.T. 0.022 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

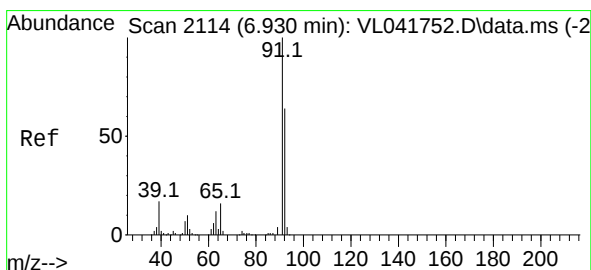
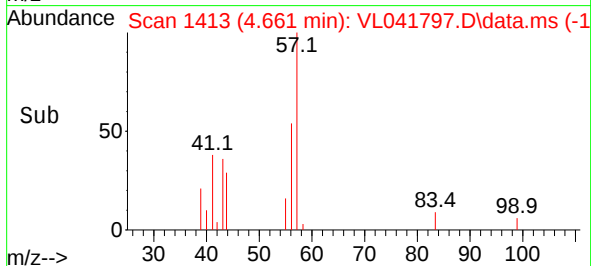
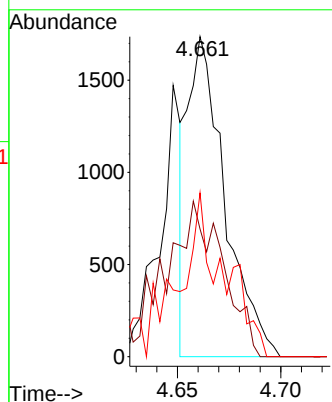
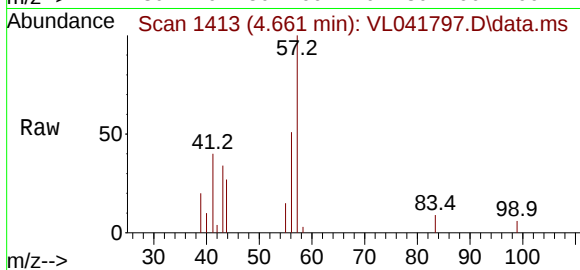
Tgt Ion: 57 Resp: 2181

Ion Ratio Lower Upper

57 100

41 86.1 30.7 46.1#

56 71.0 25.4 38.0#



#53

Toluene

Concen: 0.091 ppbv

RT: 6.962 min Scan# 2124

Delta R.T. 0.032 min

Lab File: VL041797.D

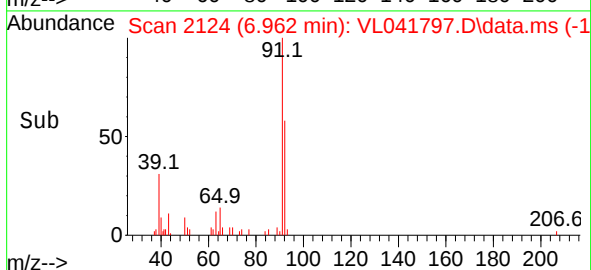
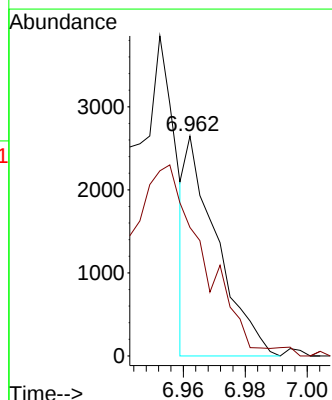
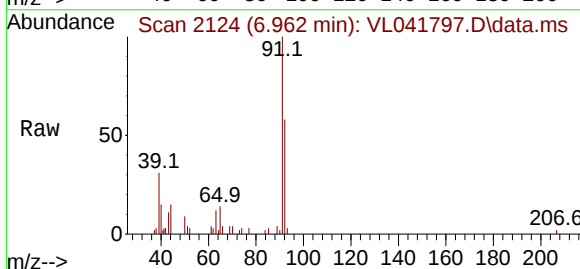
Acq: 18 Dec 2024 17:10

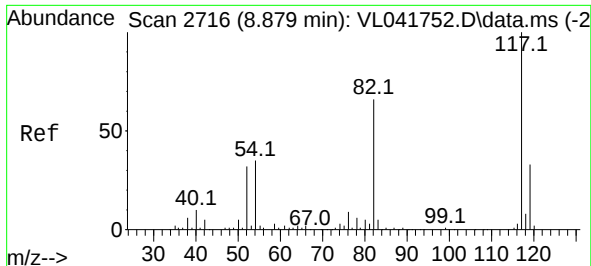
Tgt Ion: 91 Resp: 1859

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041797.D

Acq: 18 Dec 2024 17:10

Instrument :

MSVOA_L

ClientSampleId :

C0AB9

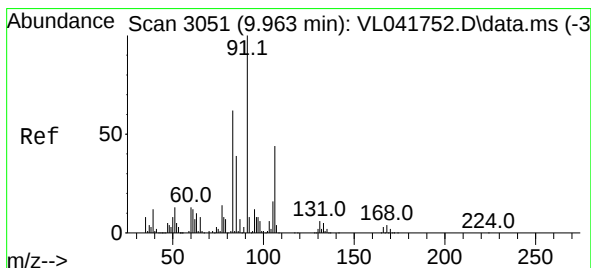
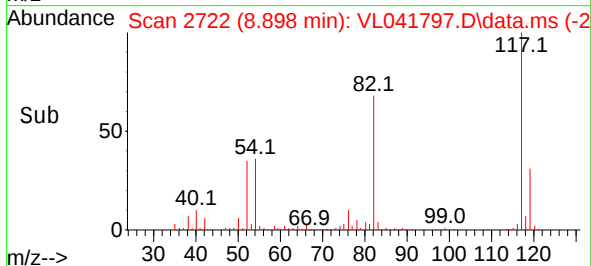
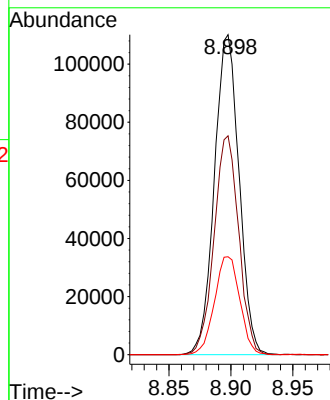
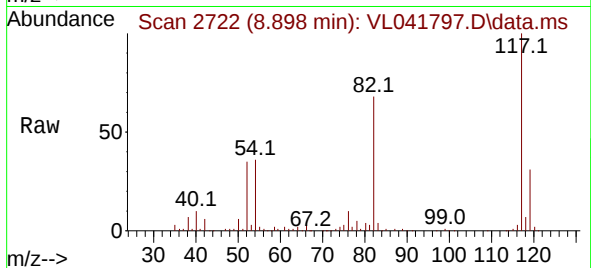
Tgt Ion:117 Resp: 152989

Ion Ratio Lower Upper

117 100

82 68.3 53.8 80.8

119 31.4 26.7 40.1



#60

o-Xylene

Concen: 0.046 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.016 min

Lab File: VL041797.D

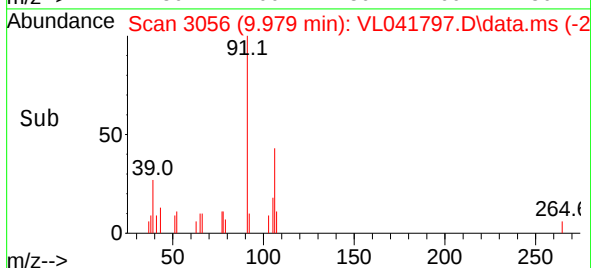
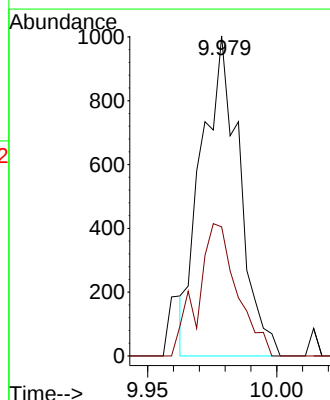
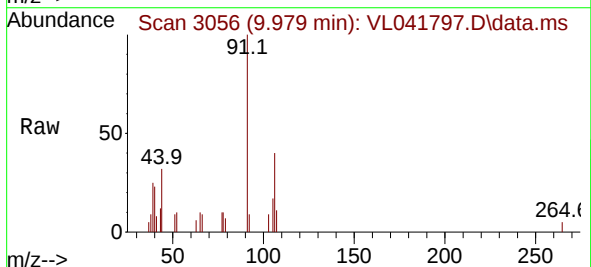
Acq: 18 Dec 2024 17:10

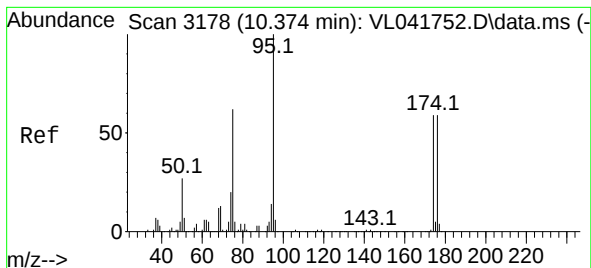
Tgt Ion: 91 Resp: 1023

Ion Ratio Lower Upper

91 100

106 42.8 21.1 63.4

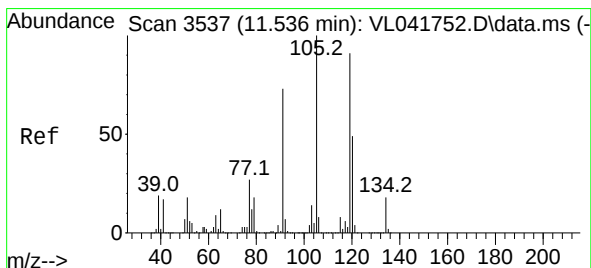
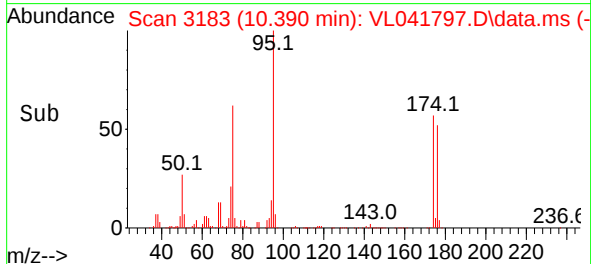
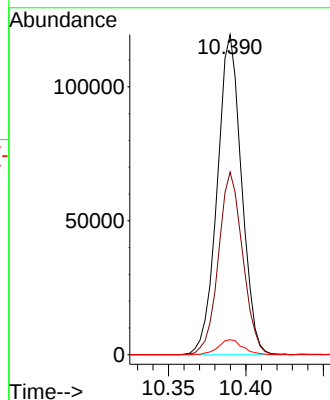
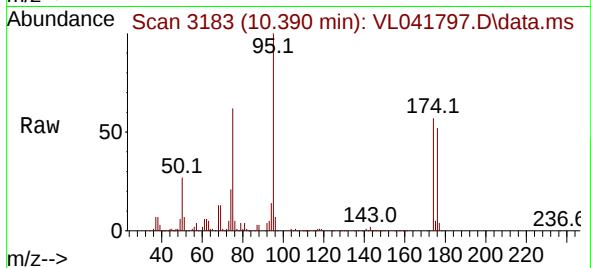




#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 10.390 min Scan# 3178
Delta R.T. 0.016 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Instrument :
MSVOA_1
ClientSampleId :
C0AB9

Tgt Ion: 95 Resp: 130229
Ion Ratio Lower Upper
95 100
174 57.1 47.6 71.4
175 4.7 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 0.058 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.009 min
Lab File: VL041797.D
Acq: 18 Dec 2024 17:10

Tgt Ion: 105 Resp: 1361
Ion Ratio Lower Upper
105 100
120 46.1 39.0 58.4
91 12.2 58.1 87.1#
77 24.0 21.8 32.8

