

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042386.D
 Acq On : 18 Apr 2025 12:09
 Operator : SY/MD
 Sample : Q1726-07DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

Quant Time: Apr 18 22:57:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

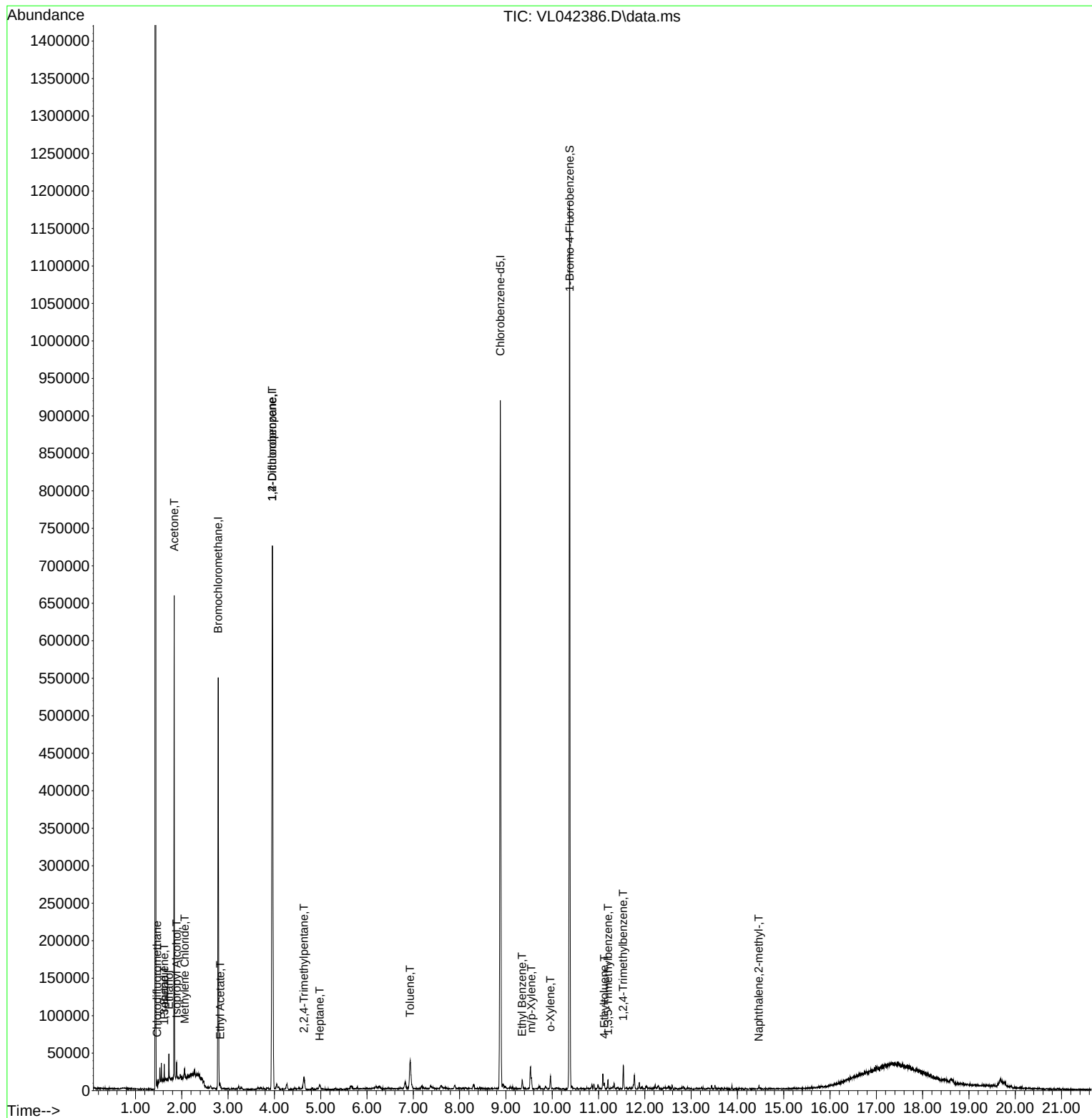
Internal Standards						
1) Bromochloromethane	2.787	49	137576	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424572	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	368674	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298684	9.859	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	1868	0.081	ppbv #	80
9) Propene	1.622	41	2578	0.245	ppbv	99
10) Heptane	4.975	43	1295	0.044	ppbv #	50
13) Ethanol	1.722	45	11275	6.730	ppbv	79
15) Acetone	1.835	43	264945	11.764	ppbv	100
16) 1,3-Butadiene	1.619	39	1405	0.130	ppbv #	9
19) Isopropyl Alcohol	1.887	45	9262	0.740	ppbv #	1
20) Methylene Chloride	2.062	84	1558	0.177	ppbv #	68
25) Ethyl Acetate	2.829	43	1871	0.034	ppbv #	70
39) 1,2-Dichloropropane	3.955	63	107583	6.304	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	14250	0.180	ppbv #	88
53) Toluene	6.930	91	17493	0.318	ppbv #	59
58) Ethyl Benzene	9.348	91	4601	0.063	ppbv	99
59) m/p-Xylene	9.548	91	3739	0.064	ppbv #	32
60) o-Xylene	9.963	91	6838	0.115	ppbv	94
72) 4-Ethyltoluene	11.125	105	3430	0.047	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.206	105	4008	0.063	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.532	105	11571	0.155	ppbv #	61
80) Naphthalene,2-methyl-	14.462	142	1553	0.031	ppbv #	71

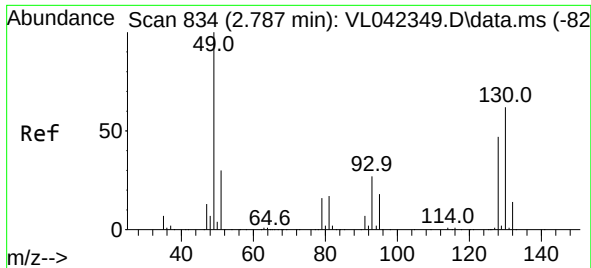
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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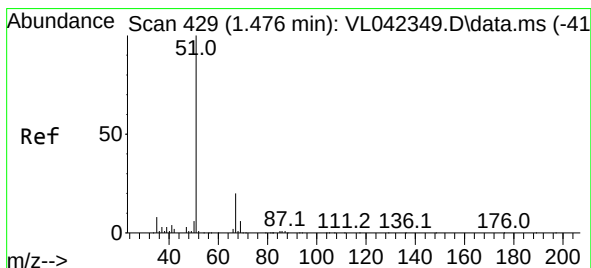
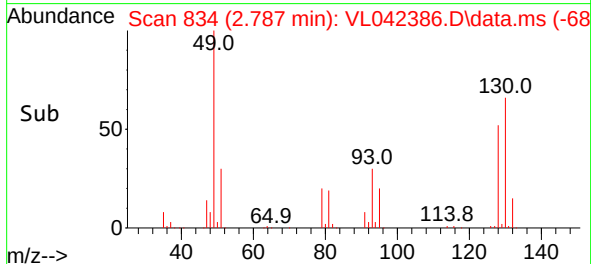
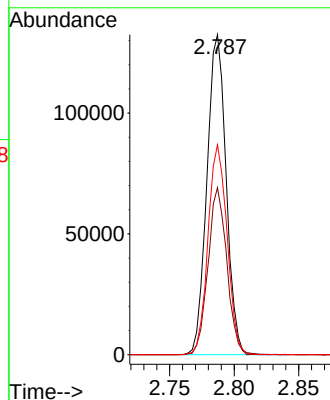
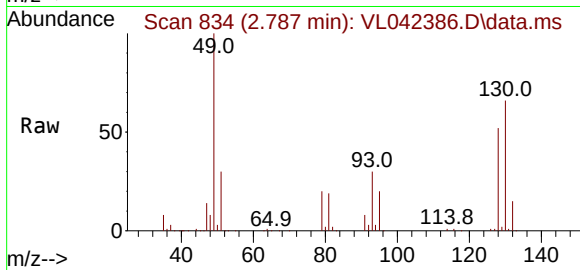




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

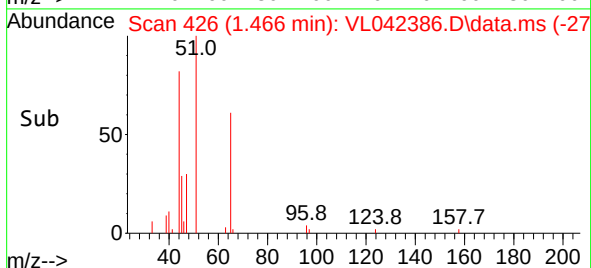
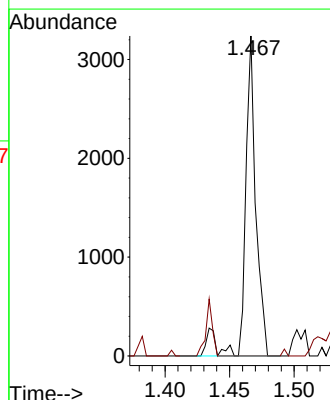
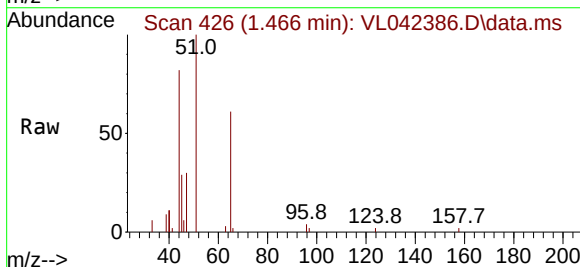
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

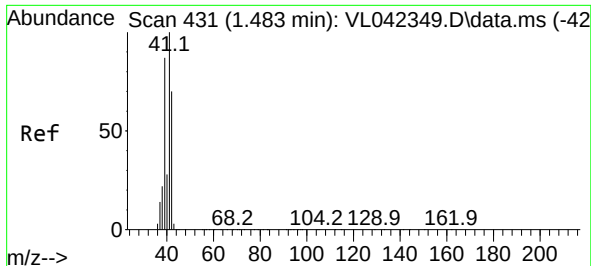
Tgt Ion: 49 Resp: 137576
Ion Ratio Lower Upper
49 100
128 50.8 22.8 68.4
130 65.1 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.081 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 51 Resp: 1868
Ion Ratio Lower Upper
51 100
67 11.0 16.2 24.4#





#9

Propene

Concen: 0.245 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

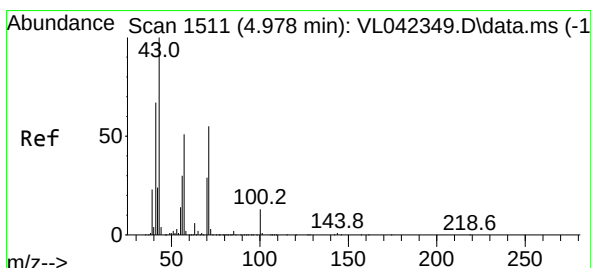
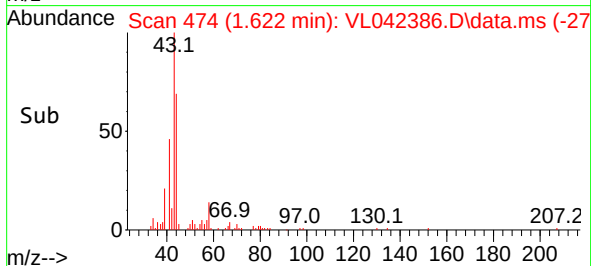
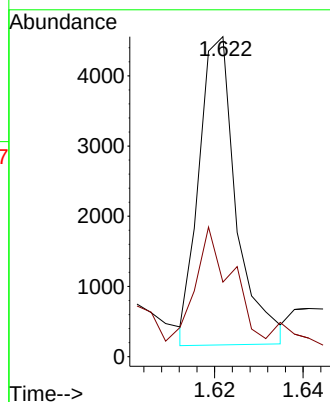
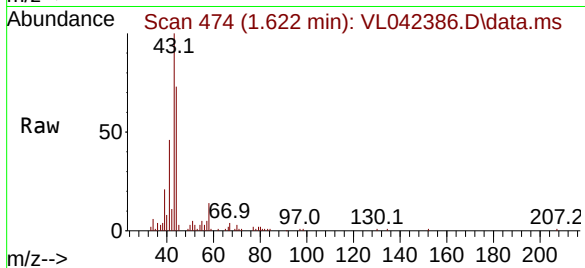
IA-B2-4-03312025DL2

Tgt Ion: 41 Resp: 2578

Ion Ratio Lower Upper

41 100

42 71.3 56.2 84.4



#10

Heptane

Concen: 0.044 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.003 min

Lab File: VL042386.D

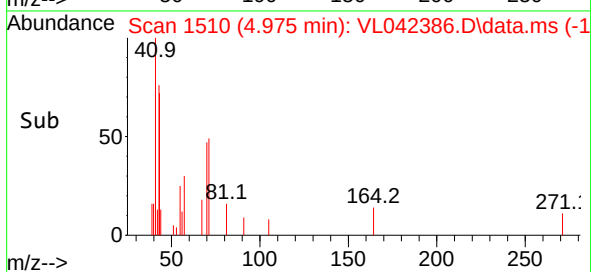
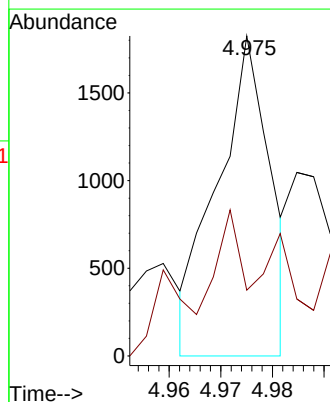
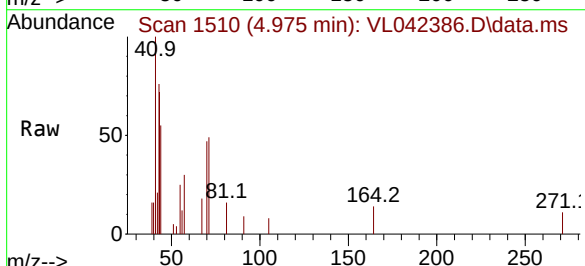
Acq: 18 Apr 2025 12:09

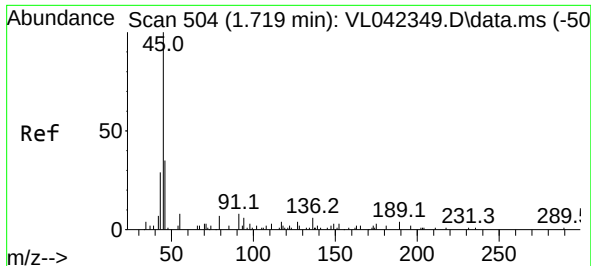
Tgt Ion: 43 Resp: 1295

Ion Ratio Lower Upper

43 100

57 84.1 39.9 59.9#

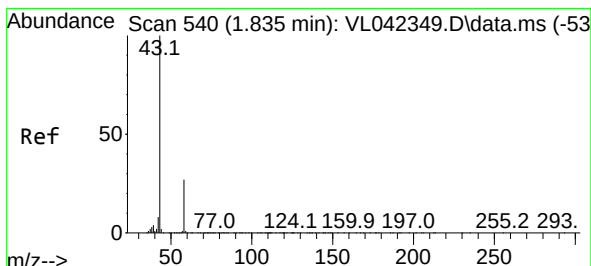
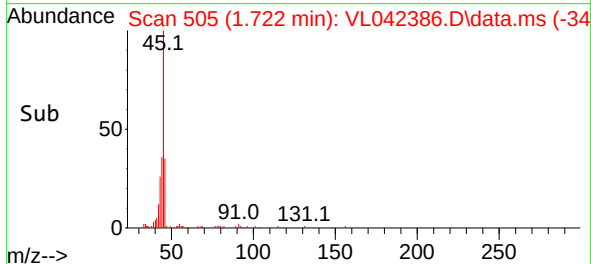
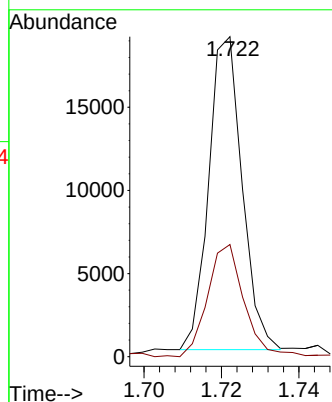
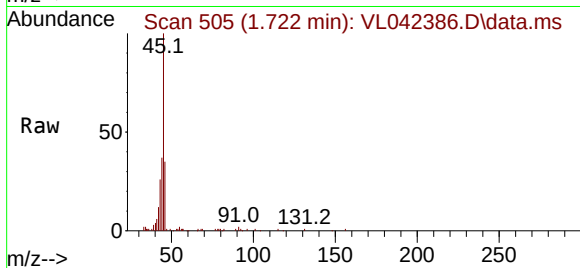




#13
 Ethanol
 Concen: 6.730 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

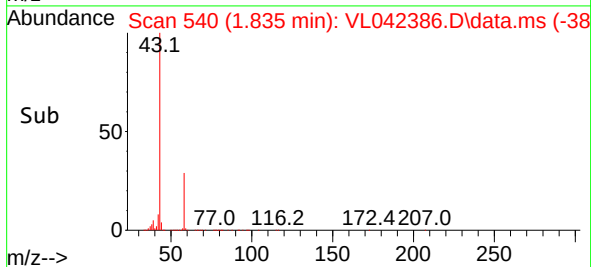
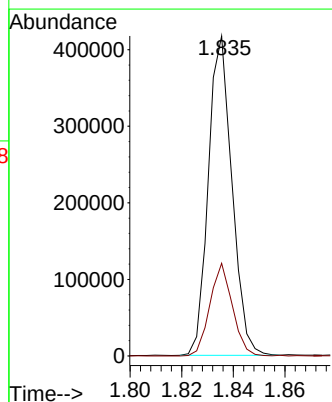
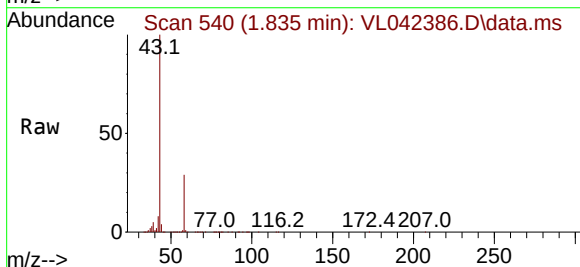
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

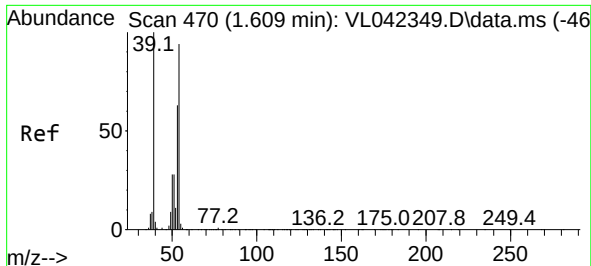
Tgt Ion: 45 Resp: 11275
 Ion Ratio Lower Upper
 45 100
 46 39.6 21.9 87.7



#15
 Acetone
 Concen: 11.764 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 264945
 Ion Ratio Lower Upper
 43 100
 58 27.9 22.4 33.6

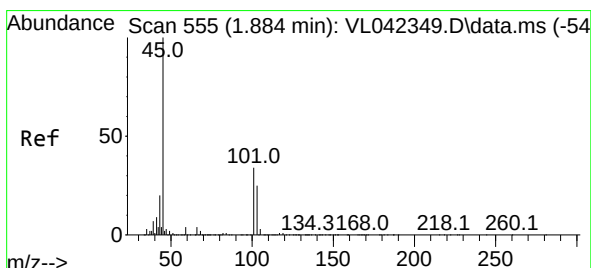
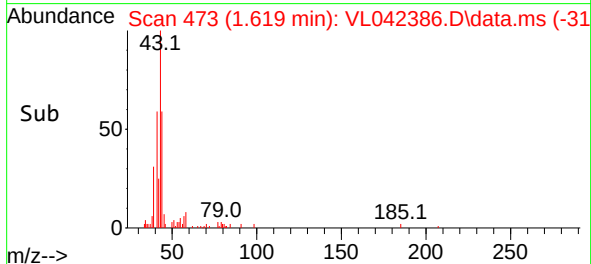
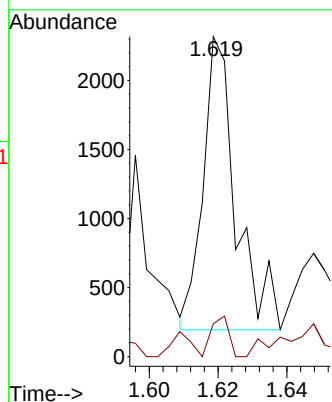
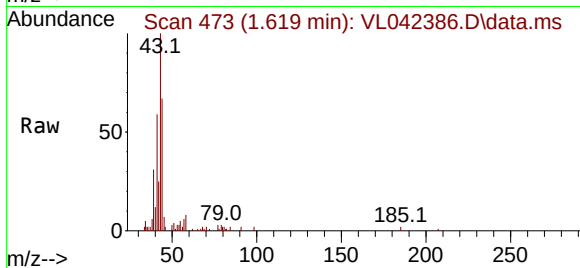




#16
1,3-Butadiene
Concen: 0.130 ppbv
RT: 1.619 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

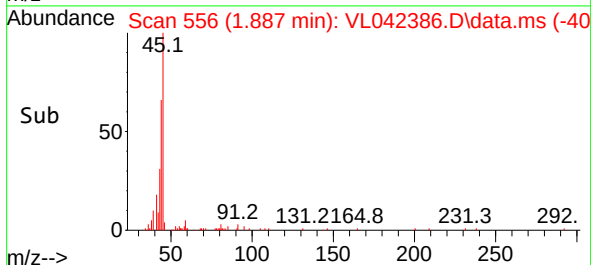
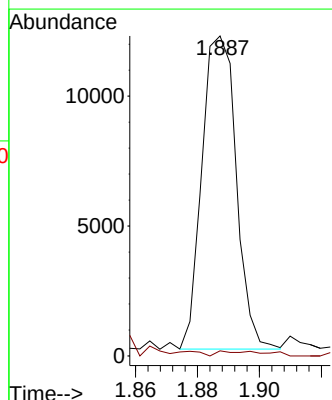
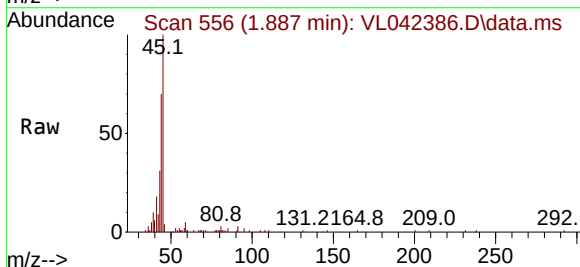
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

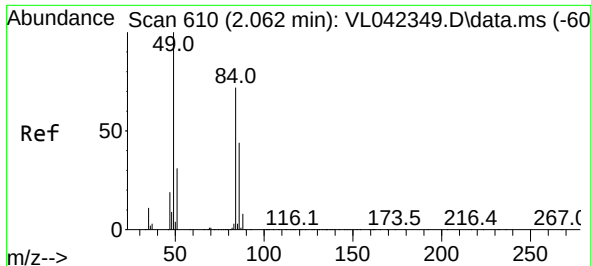
Tgt Ion: 39 Resp: 1405
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 0.740 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 45 Resp: 9262
Ion Ratio Lower Upper
45 100
58 797.3 34.5 51.7#





#20

Methylene Chloride

Concen: 0.177 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042386.D

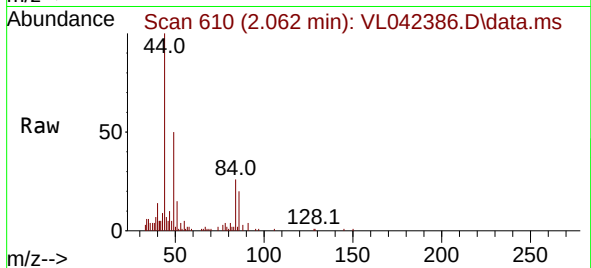
Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL2



Tgt Ion: 84 Resp: 1558

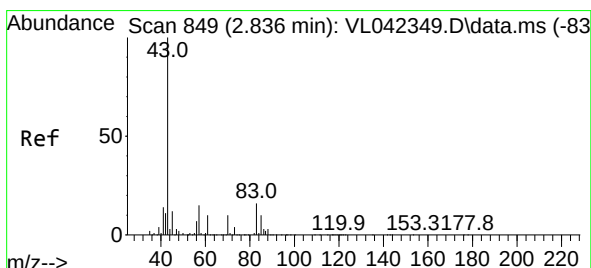
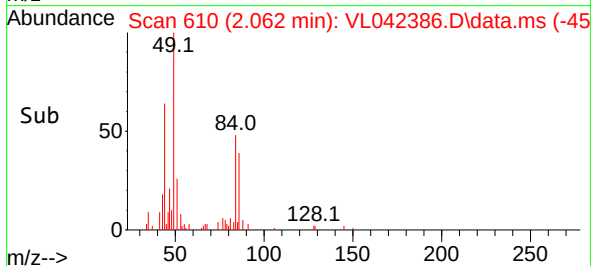
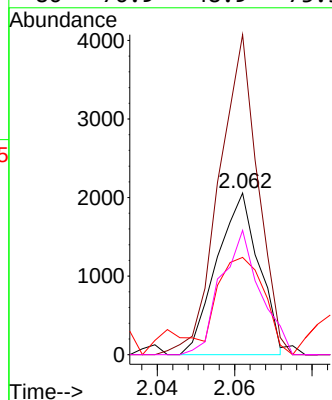
Ion Ratio Lower Upper

84 100

49 191.6 111.6 167.4#

51 54.1 35.1 52.7#

86 76.9 48.9 73.3#



#25

Ethyl Acetate

Concen: 0.034 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.006 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 1871

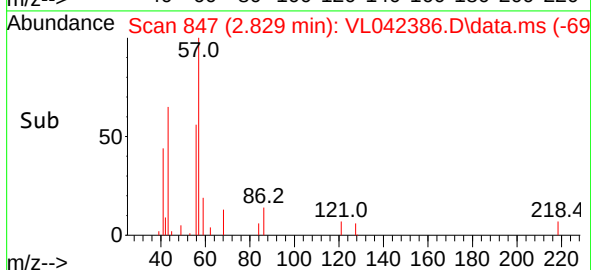
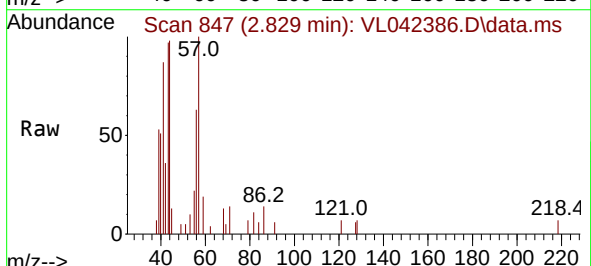
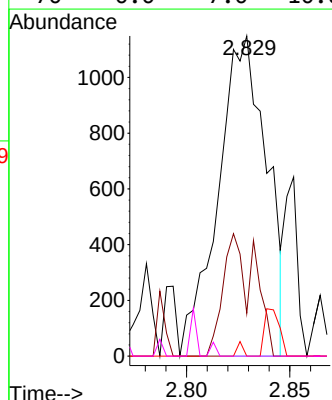
Ion Ratio Lower Upper

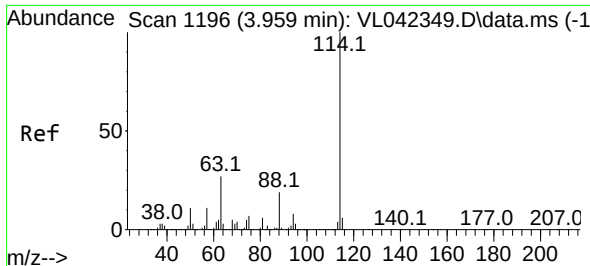
43 100

45 24.5 8.3 12.5#

61 0.0 7.3 10.9#

70 0.0 7.0 10.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.003 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL2

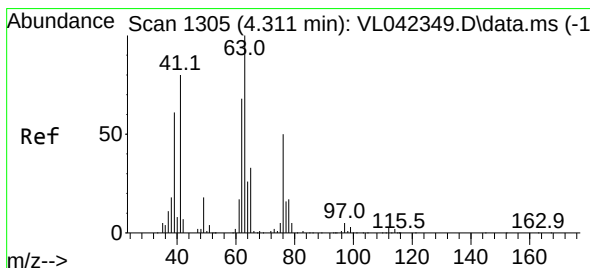
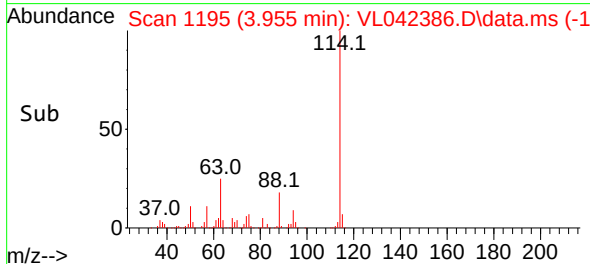
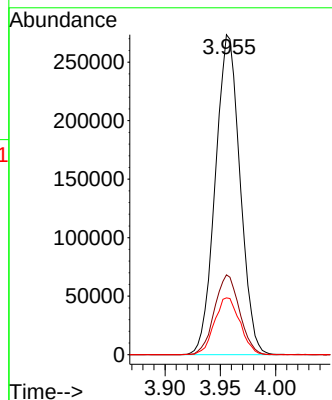
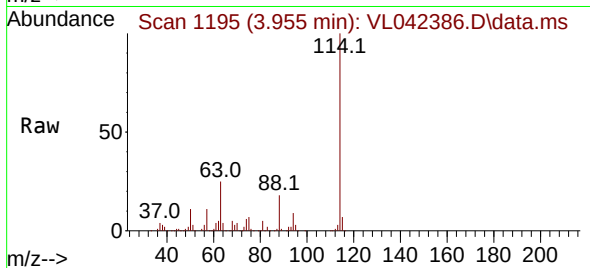
Tgt Ion:114 Resp: 424572

Ion Ratio Lower Upper

114 100

63 25.4 21.8 32.6

88 18.4 15.5 23.3



#39

1,2-Dichloropropane

Concen: 6.304 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

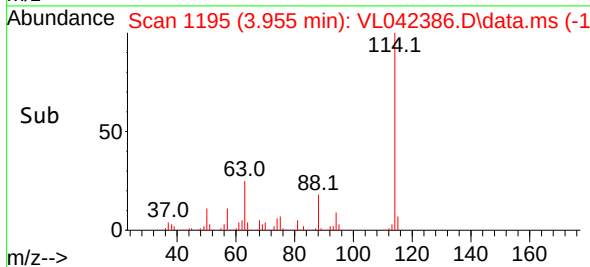
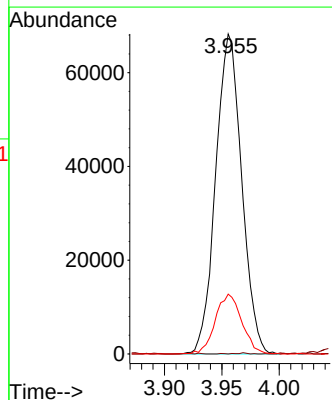
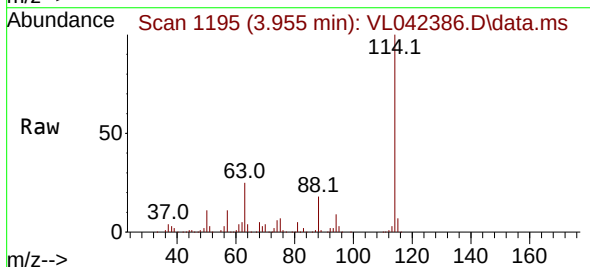
Tgt Ion: 63 Resp: 107583

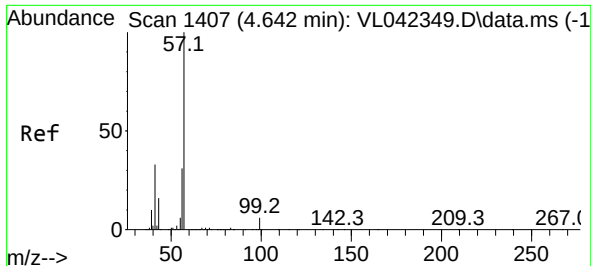
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 18.7 54.3 81.5#

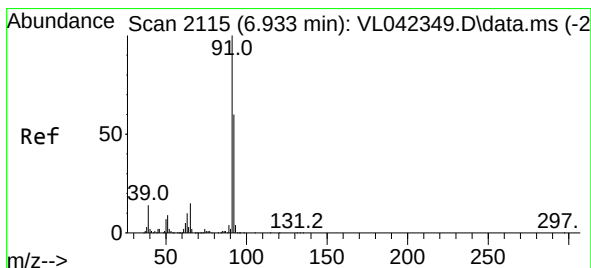
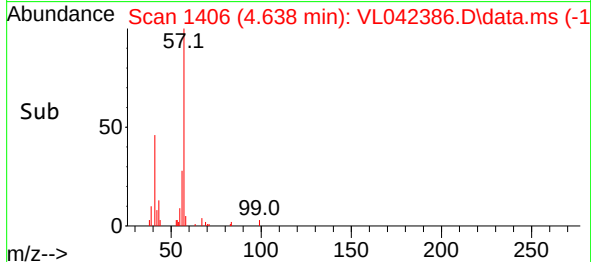
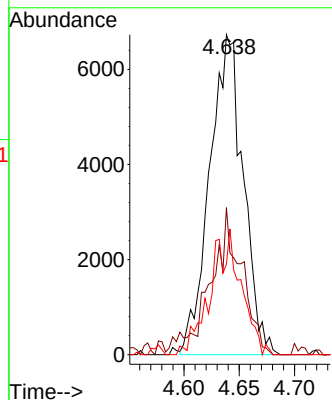
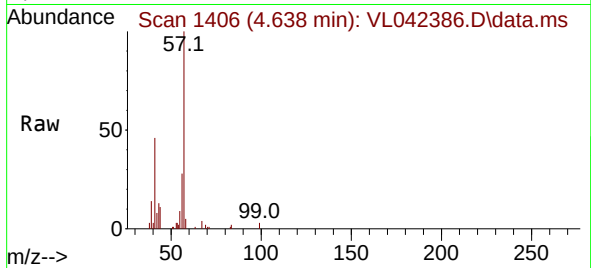




#44
 2,2,4-Trimethylpentane
 Concen: 0.180 ppbv
 RT: 4.638 min Scan# 1406
 Delta R.T. -0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

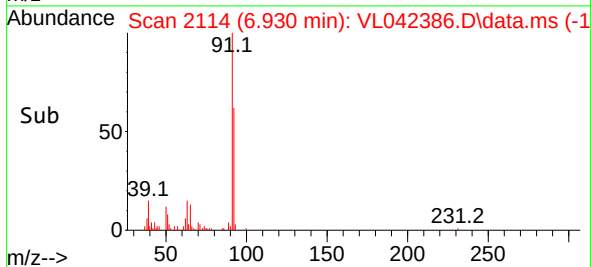
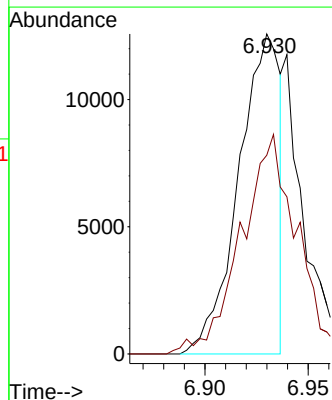
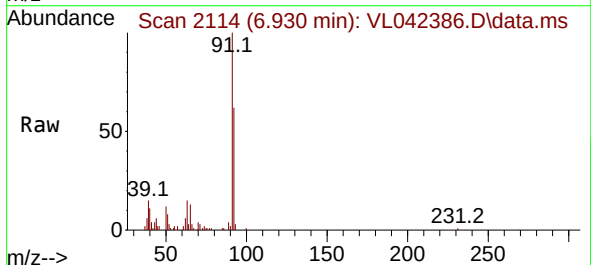
Instrument : MSVOA_1
 ClientSampleId : IA-B2-4-03312025DL2

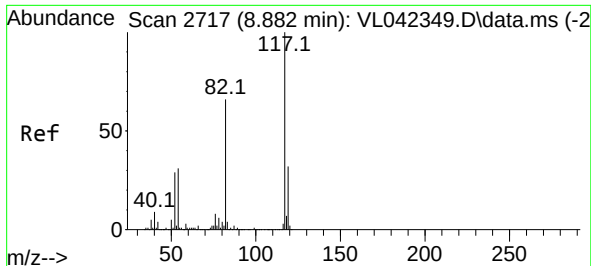
Tgt Ion: 57 Resp: 14250
 Ion Ratio Lower Upper
 57 100
 41 43.5 27.2 40.8#
 56 36.0 25.7 38.5



#53
 Toluene
 Concen: 0.318 ppbv
 RT: 6.930 min Scan# 2114
 Delta R.T. -0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 17493
 Ion Ratio Lower Upper
 91 100
 92 91.6 48.2 72.4#

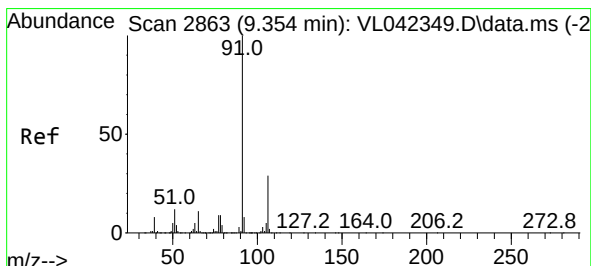
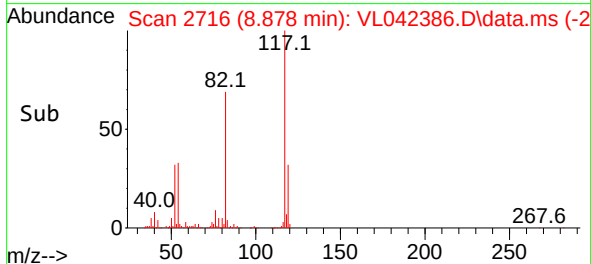
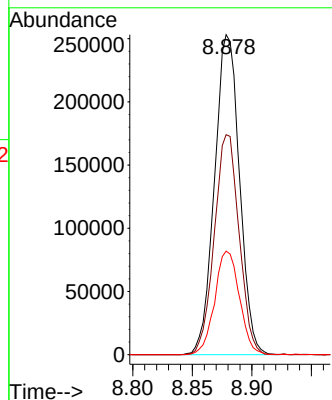
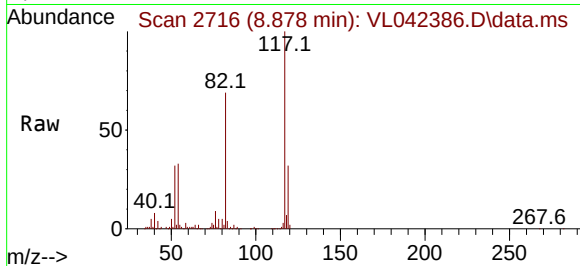




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

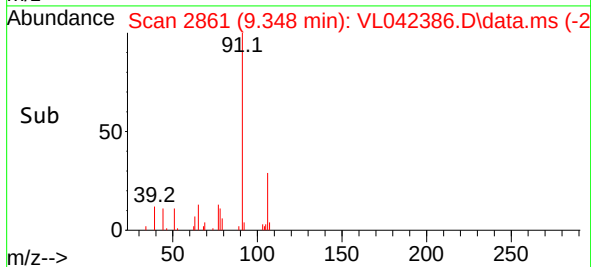
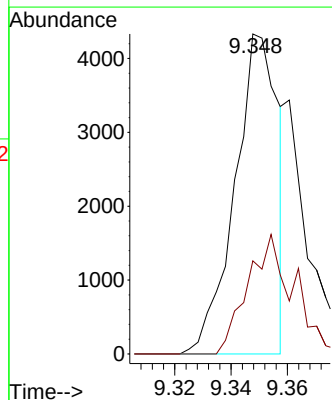
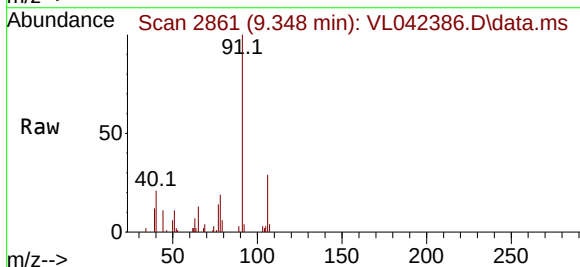
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

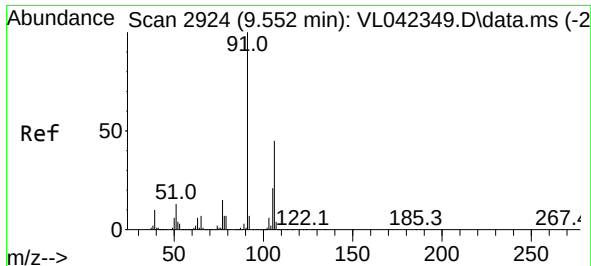
Tgt Ion:117 Resp: 368674
Ion Ratio Lower Upper
117 100
82 68.2 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.063 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 4601
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.4





#59

m/p-Xylene

Concen: 0.064 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

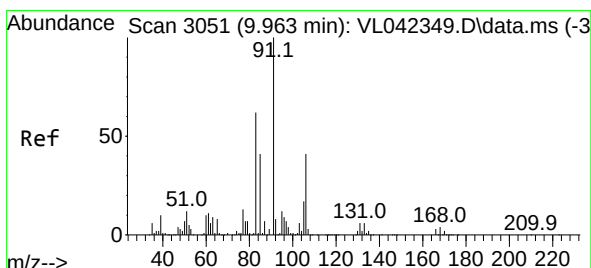
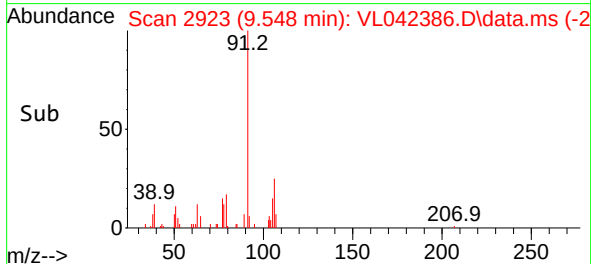
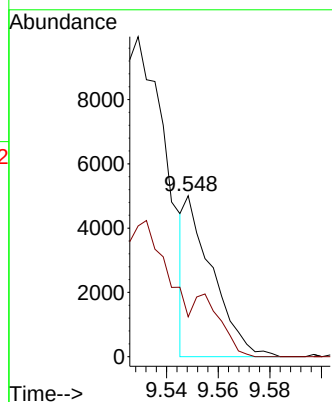
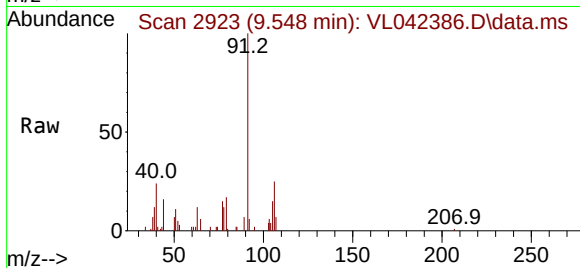
IA-B2-4-03312025DL2

Tgt Ion: 91 Resp: 3739

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.115 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042386.D

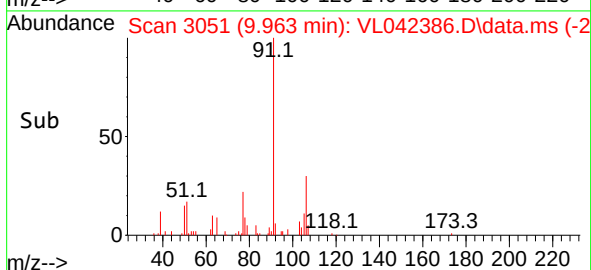
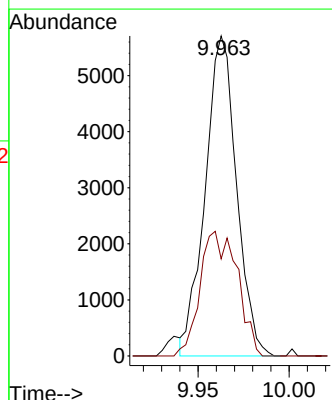
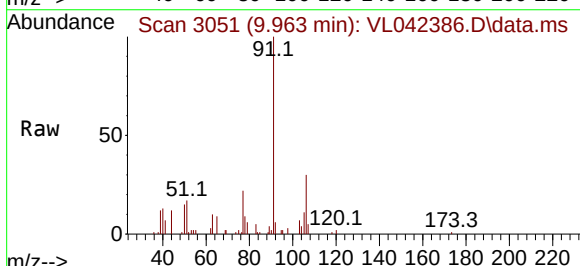
Acq: 18 Apr 2025 12:09

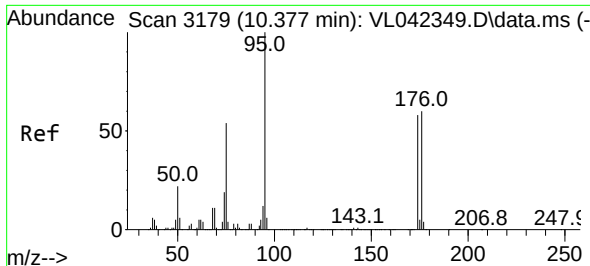
Tgt Ion: 91 Resp: 6838

Ion Ratio Lower Upper

91 100

106 46.2 21.1 63.4

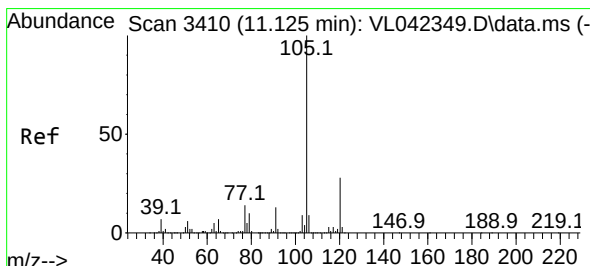
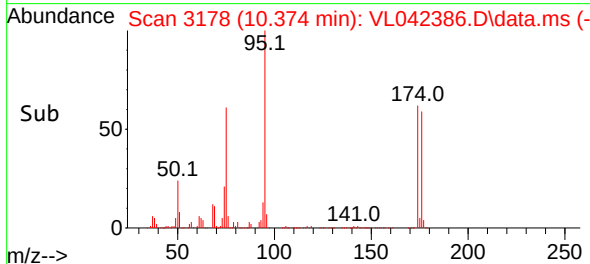
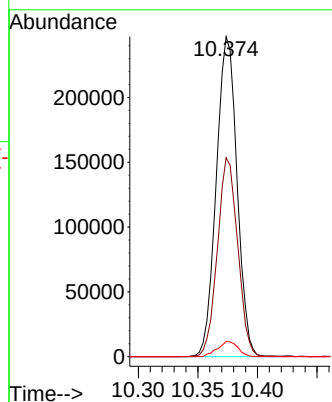
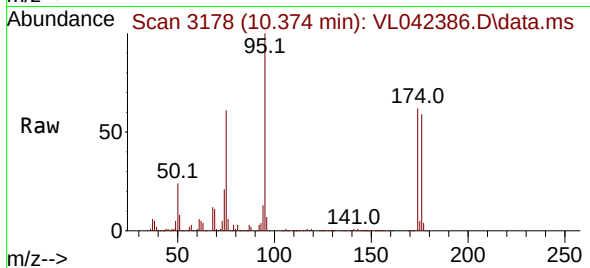




#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

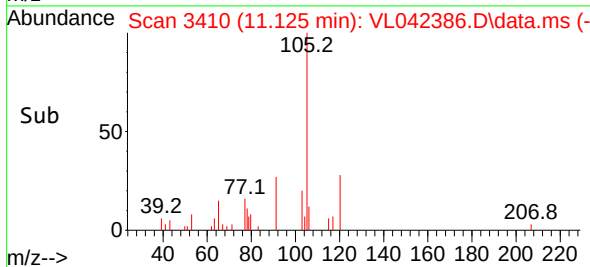
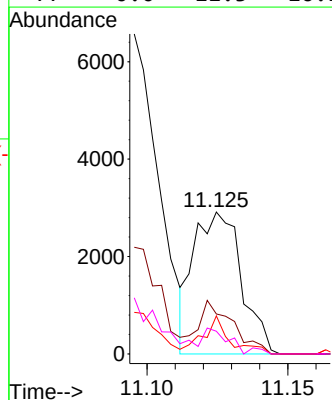
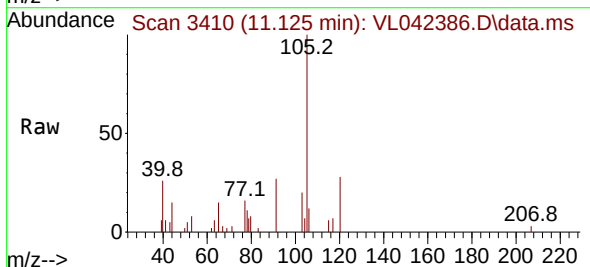
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

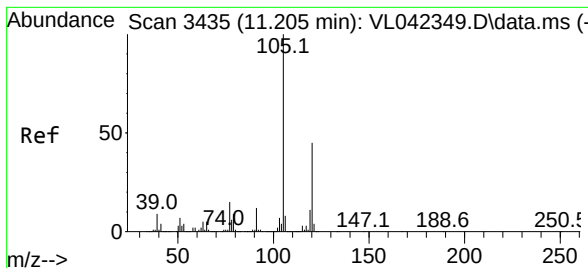
Tgt Ion: 95 Resp: 298684
Ion Ratio Lower Upper
95 100
174 61.0 48.5 72.7
175 4.7 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 105 Resp: 3430
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 13.9 10.4 15.6
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.063 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_1

ClientSampleId :

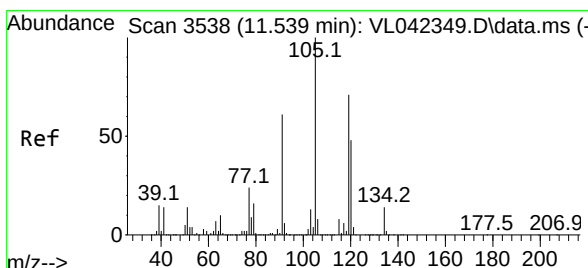
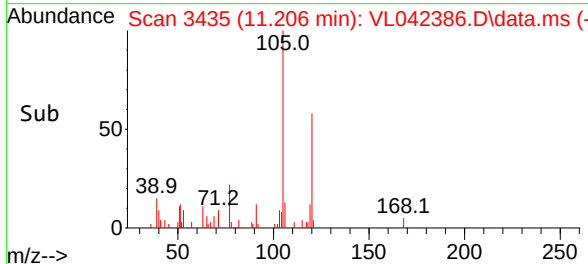
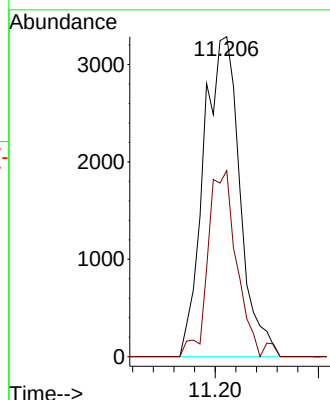
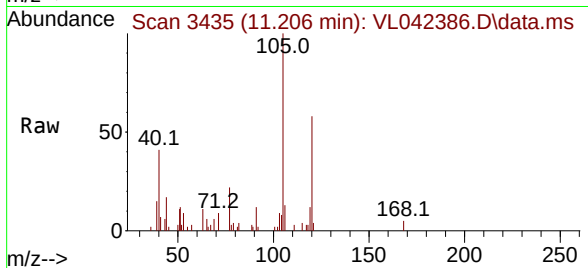
IA-B2-4-03312025DL2

Tgt Ion:105 Resp: 4008

Ion Ratio Lower Upper

105 100

120 62.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.155 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.006 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Tgt Ion:105 Resp: 11571

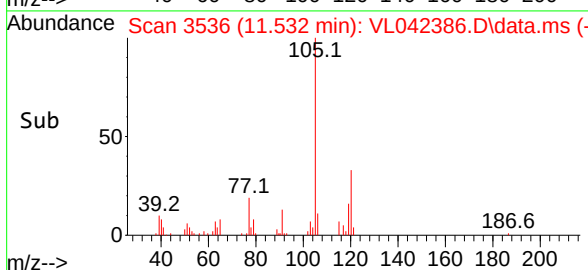
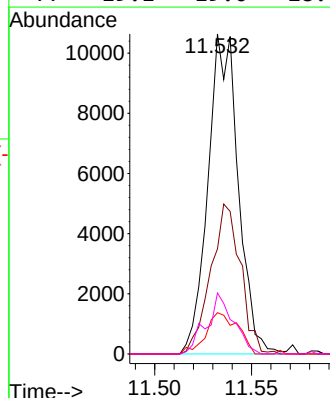
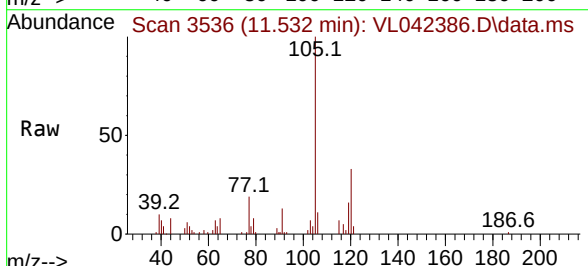
Ion Ratio Lower Upper

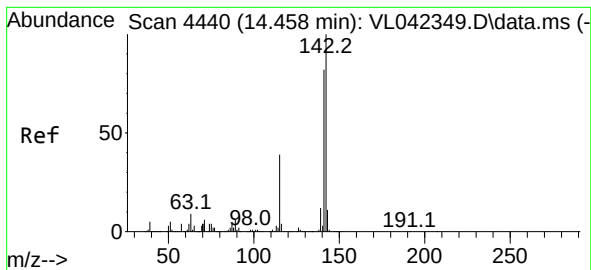
105 100

120 32.9 38.1 57.1#

91 12.9 48.8 73.2#

77 19.1 19.0 28.4





#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv

RT: 14.462 min Scan# 44

Delta R.T. 0.003 min

Lab File: VL042386.D

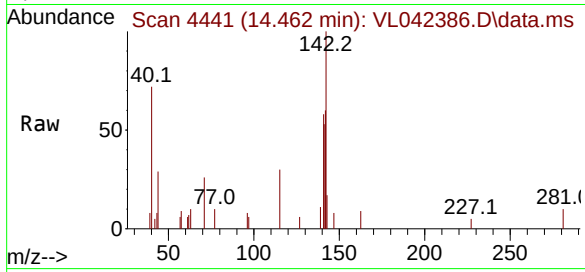
Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL2



Tgt Ion:142 Resp: 1553

Ion Ratio Lower Upper

142 100

141 115.5 66.8 100.2#

115 51.8 33.4 50.2#

