

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042380.D
 Acq On : 18 Apr 2025 03:34
 Operator : SY/MD
 Sample : Q1726-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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.	T.Q	Ion	Response	Conc	Units	Dev(Min)

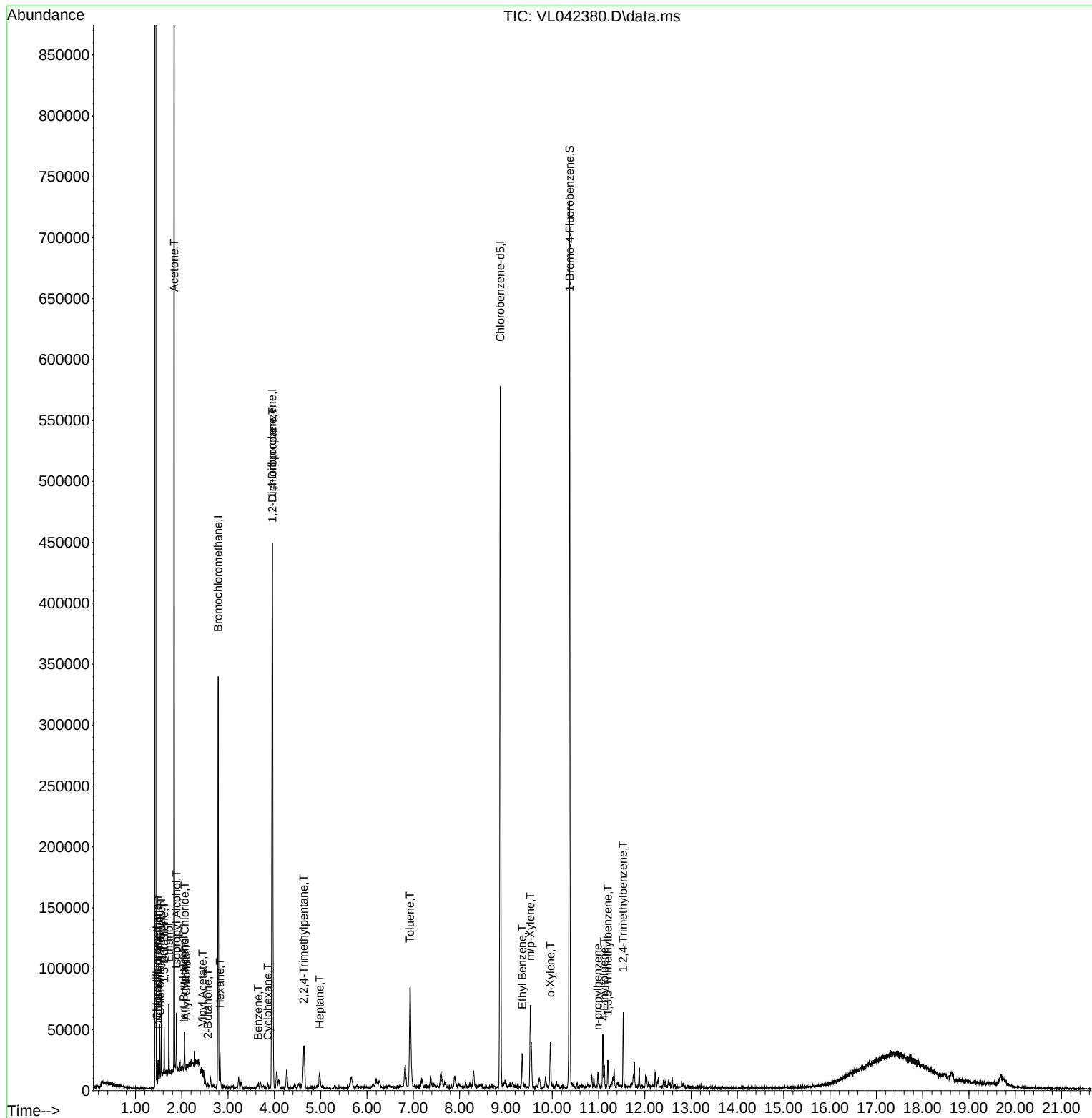
Internal Standards							
1) Bromochloromethane	2.787	49		90034	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114		252514	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117		219443	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95		187830	10.416	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.200%	
Target Compounds							
						Qvalue	
2) Dichlorodifluoromethane	1.499	85		960	0.060	ppbv #	76
3) Chlorodifluoromethane	1.466	51		4487	0.296	ppbv #	61
4) Chloromethane	1.531	50		424	0.067	ppbv #	57
9) Propene	1.557	41		6843	0.992	ppbv	89
10) Heptane	4.978	43		2751	0.142	ppbv #	22
13) Ethanol	1.722	45		19984	18.226	ppbv	76
15) Acetone	1.835	43		563713	38.247	ppbv	98
16) 1,3-Butadiene	1.622	39		2227	0.316	ppbv #	40
17) tert-Butyl alcohol	2.043	59		1182	0.065	ppbv #	1
19) Isopropyl Alcohol	1.887	45		19270	2.354	ppbv #	1
20) Methylene Chloride	2.062	84		4260	0.738	ppbv	96
21) Allyl Chloride	2.094	41		364	0.036	ppbv #	34
23) Vinyl Acetate	2.450	43		1426	0.239	ppbv #	1
26) Hexane	2.823	57		6487	0.441	ppbv #	37
30) Cyclohexane	3.858	84		614	0.052	ppbv #	1
34) 2-Butanone	2.564	43		1119	0.056	ppbv #	81
36) Benzene	3.651	78		1309	0.048	ppbv #	87
39) 1,2-Dichloropropane	3.959	63		68357	6.735	ppbv #	22
44) 2,2,4-Trimethylpentane	4.635	57		29451	0.626	ppbv #	90
53) Toluene	6.927	91		57048	1.745	ppbv	97
58) Ethyl Benzene	9.351	91		14493	0.333	ppbv	92
59) m/p-Xylene	9.529	91		41899	1.196	ppbv	98
60) o-Xylene	9.959	91		16128	0.457	ppbv	99
64) n-propylbenzene	10.982	120		462	0.035	ppbv	68
72) 4-Ethyltoluene	11.125	105		7252	0.168	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105		7522	0.198	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105		21924	0.493	ppbv #	63

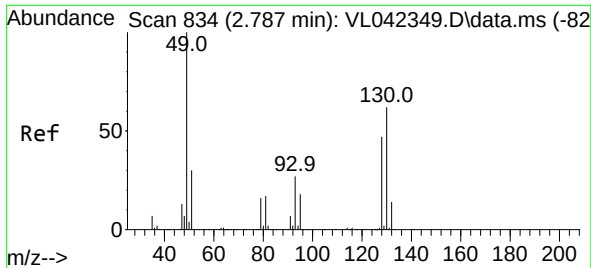
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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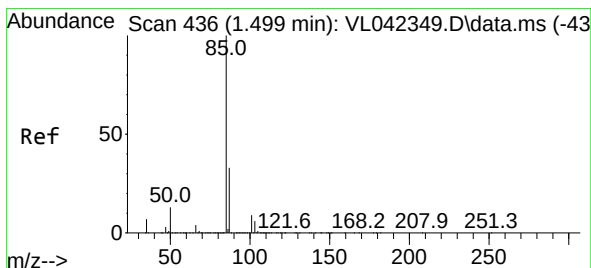
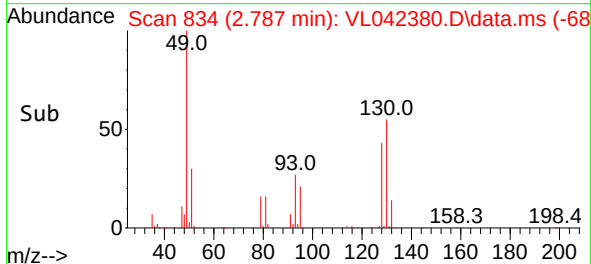
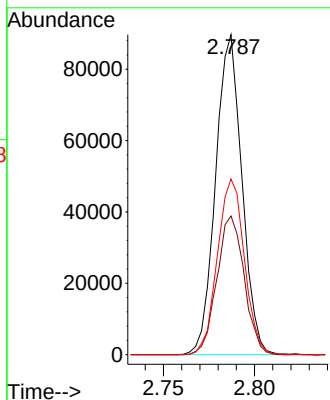
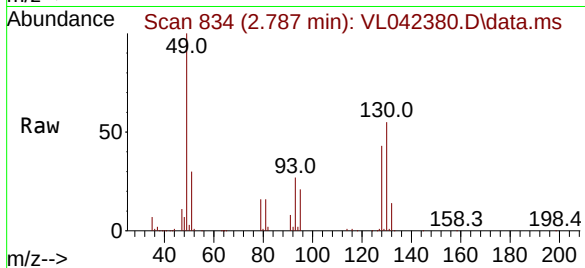




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

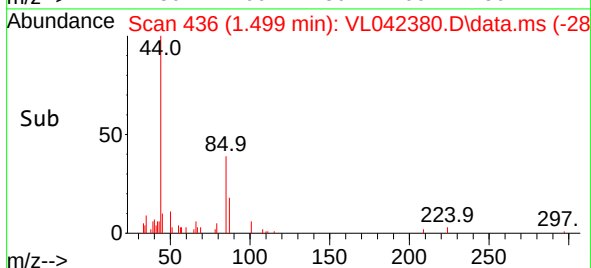
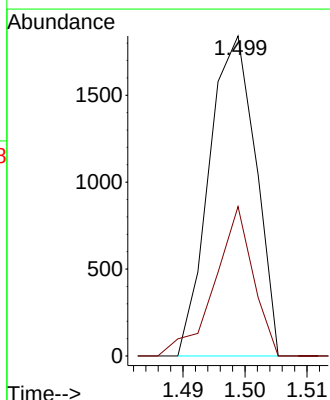
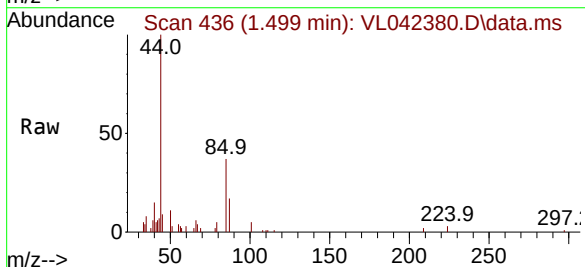
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

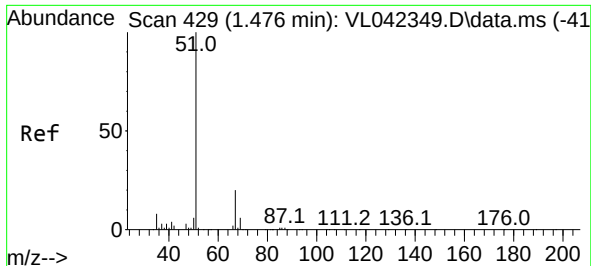
Tgt Ion: 49 Resp: 90034
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.8 68.4
 130 56.3 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.060 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

Tgt Ion: 85 Resp: 960
 Ion Ratio Lower Upper
 85 100
 87 46.7 26.6 39.8#

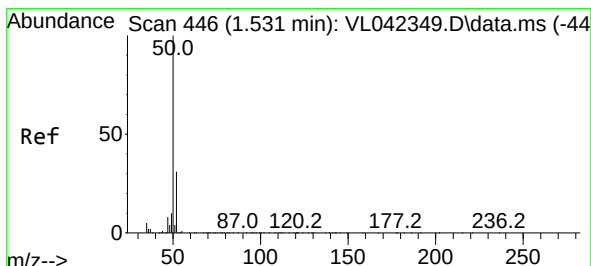
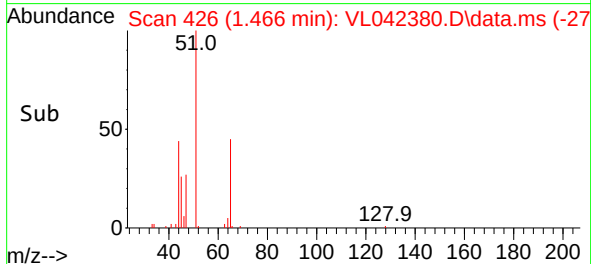
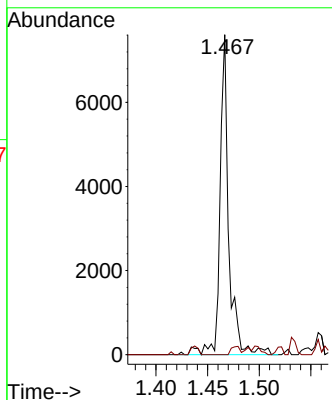
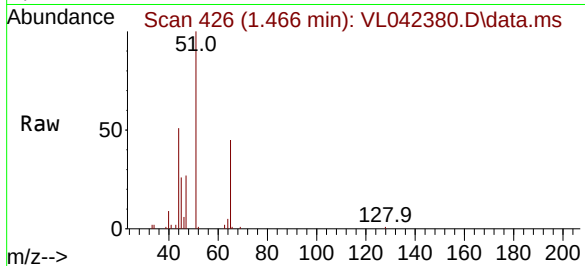




#3
Chlorodifluoromethane
Concen: 0.296 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

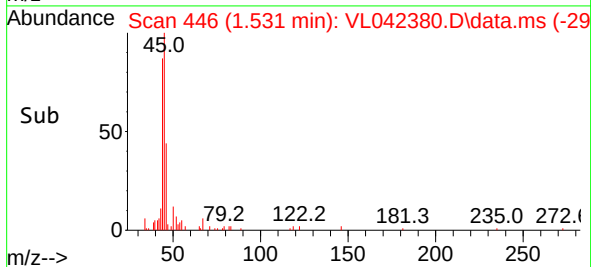
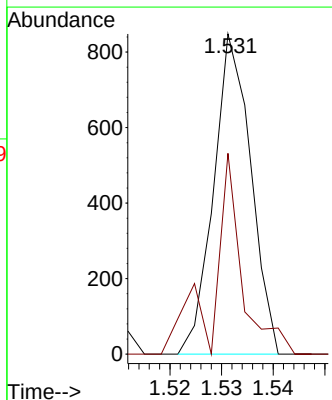
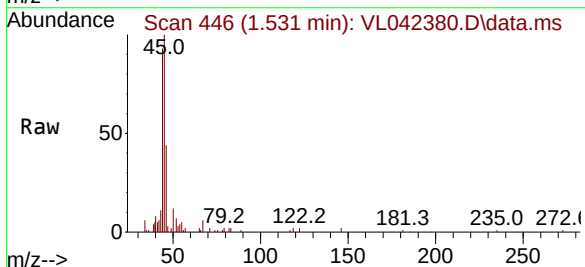
Instrument :
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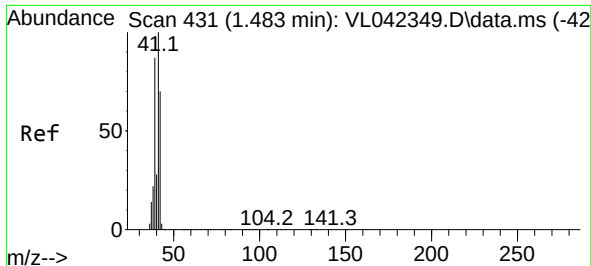
Tgt Ion: 51 Resp: 4487
Ion Ratio Lower Upper
51 100
67 2.3 16.2 24.4#



#4
Chloromethane
Concen: 0.067 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 50 Resp: 424
Ion Ratio Lower Upper
50 100
52 54.6 24.7 37.1#





#9

Propene

Concen: 0.992 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

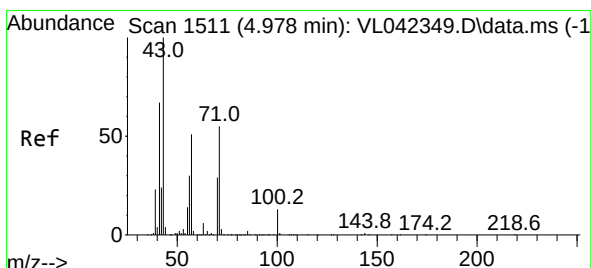
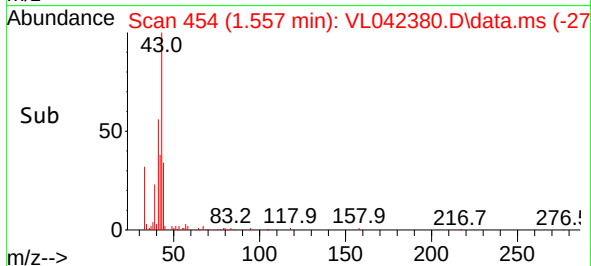
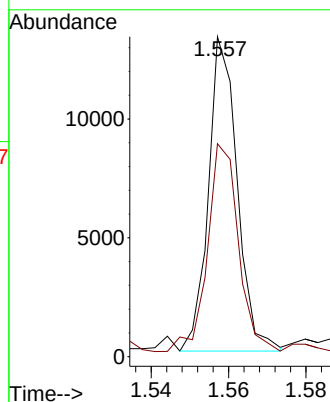
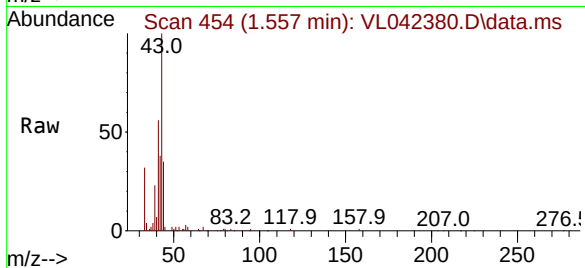
IA-B2-1-03312025DL

Tgt Ion: 41 Resp: 6843

Ion Ratio Lower Upper

41 100

42 79.1 56.2 84.4



#10

Heptane

Concen: 0.142 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042380.D

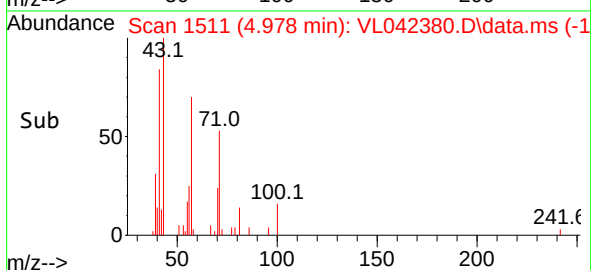
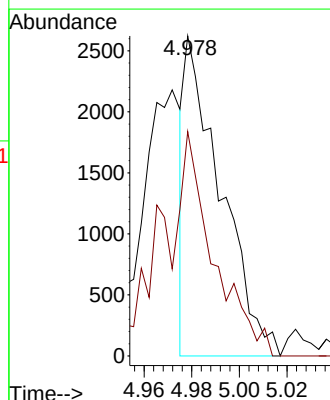
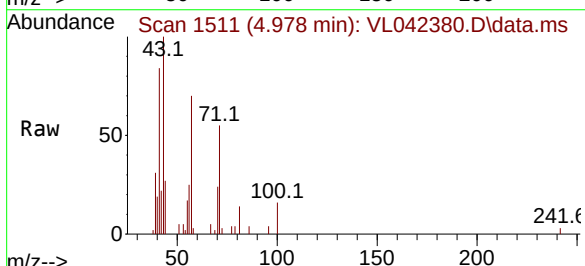
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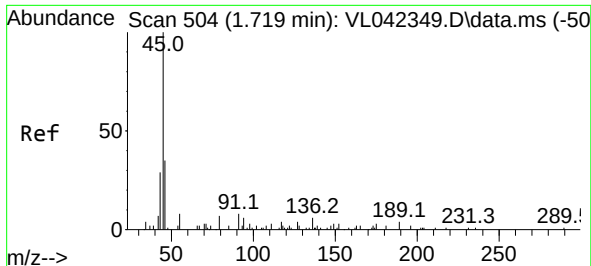
Tgt Ion: 43 Resp: 2751

Ion Ratio Lower Upper

43 100

57 103.3 39.9 59.9#

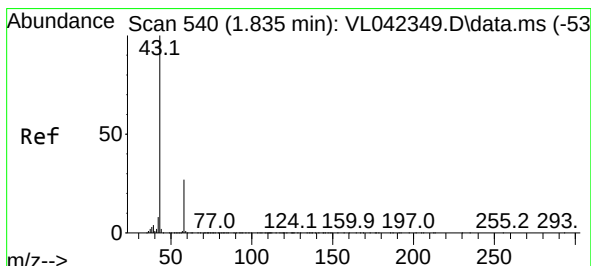
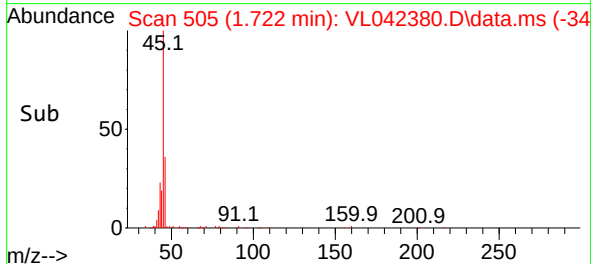
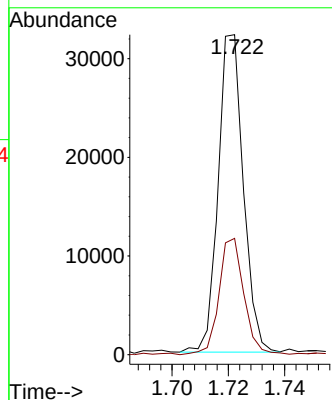
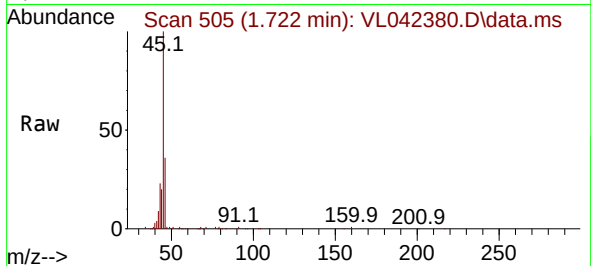




#13
Ethanol
Concen: 18.226 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

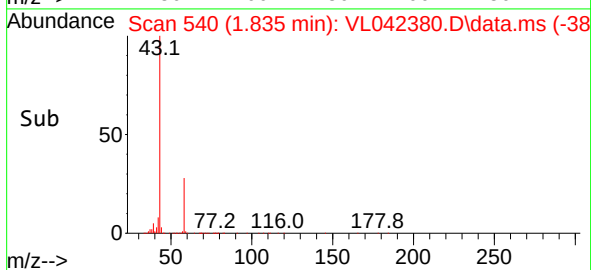
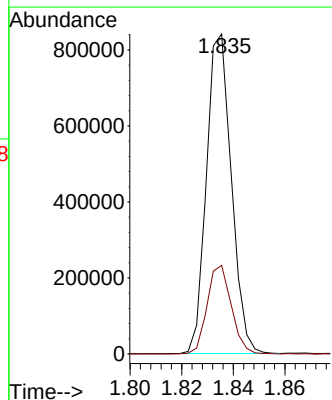
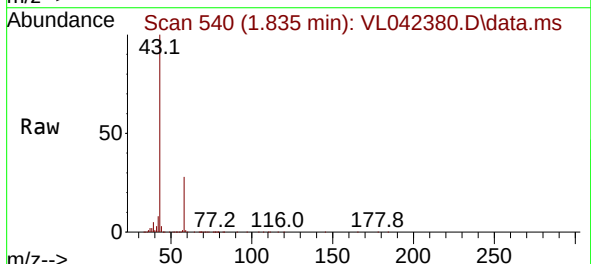
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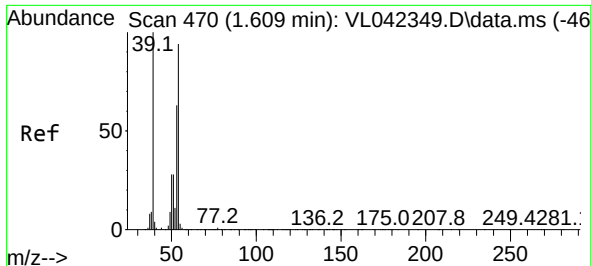
Tgt Ion: 45 Resp: 19984
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7



#15
Acetone
Concen: 38.247 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 563713
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

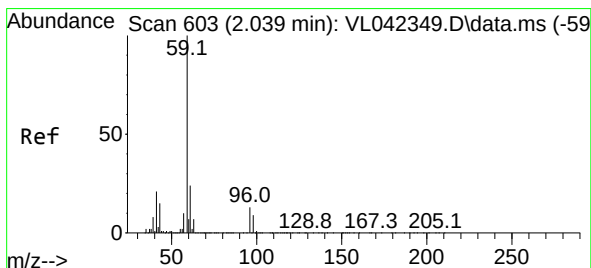
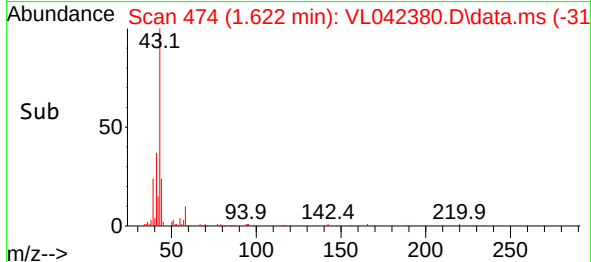
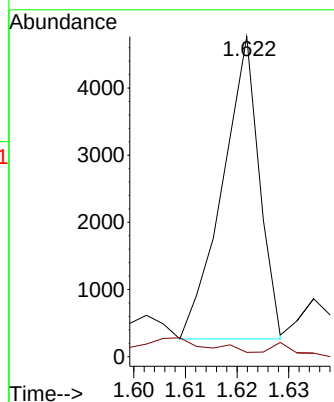
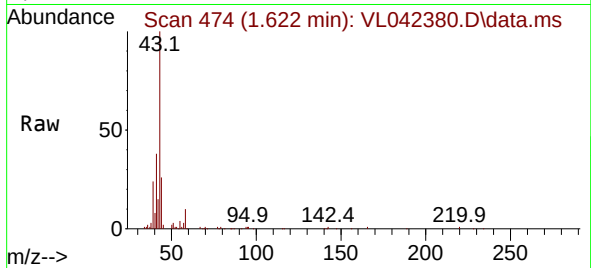




#16
1,3-Butadiene
Concen: 0.316 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

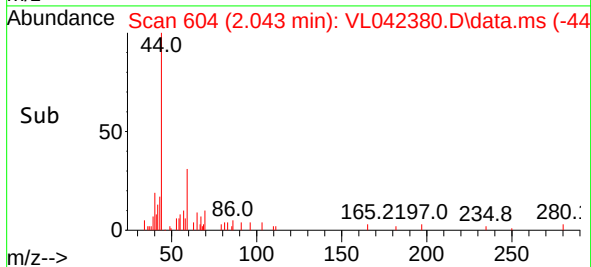
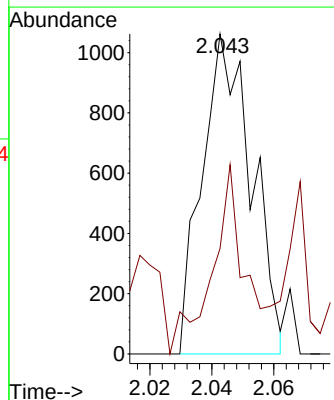
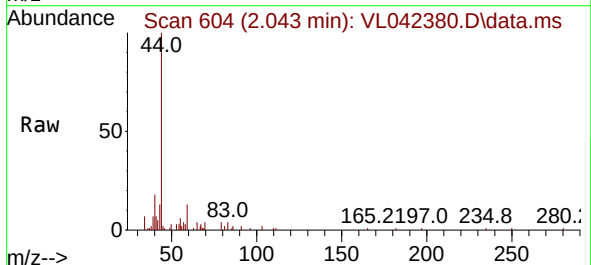
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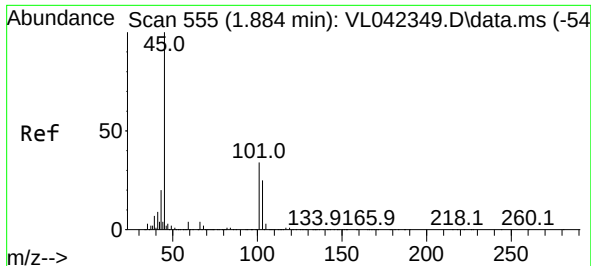
Tgt Ion: 39 Resp: 2227
Ion Ratio Lower Upper
39 100
54 27.4 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.065 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 59 Resp: 1182
Ion Ratio Lower Upper
59 100
57 59.3 8.7 13.1#

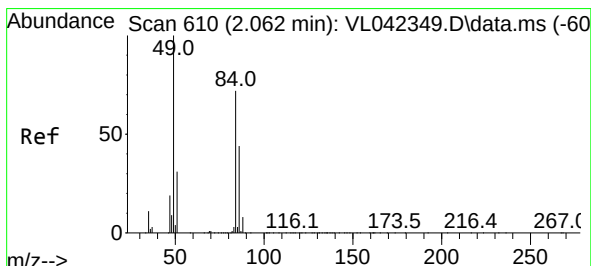
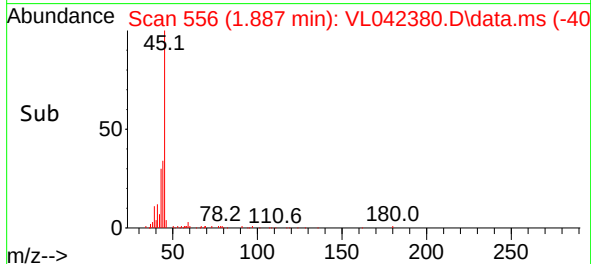
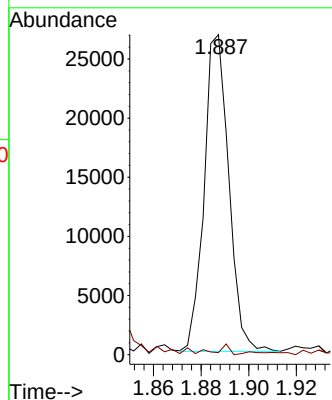
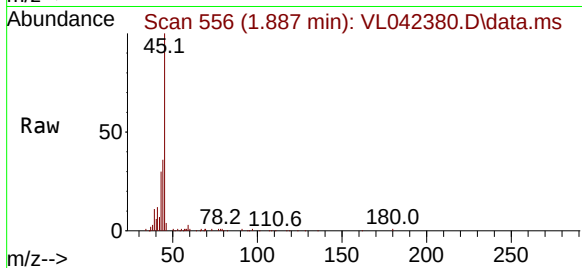




#19
Isopropyl Alcohol
Concen: 2.354 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

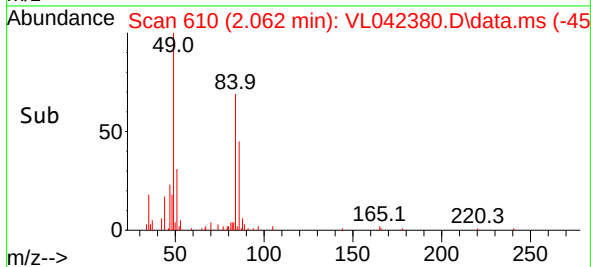
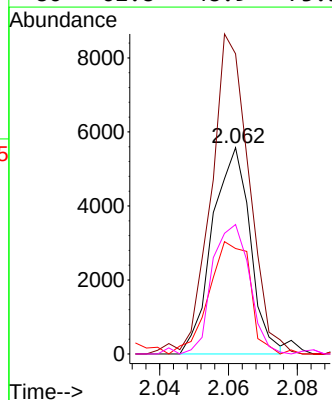
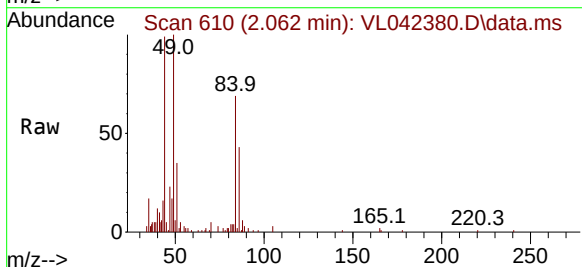
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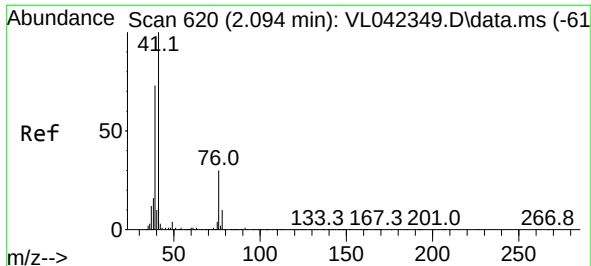
Tgt Ion: 45 Resp: 19270
Ion Ratio Lower Upper
45 100
58 790.9 34.5 51.7#



#20
Methylene Chloride
Concen: 0.738 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 84 Resp: 4260
Ion Ratio Lower Upper
84 100
49 143.5 111.6 167.4
51 51.2 35.1 52.7
86 62.8 48.9 73.3

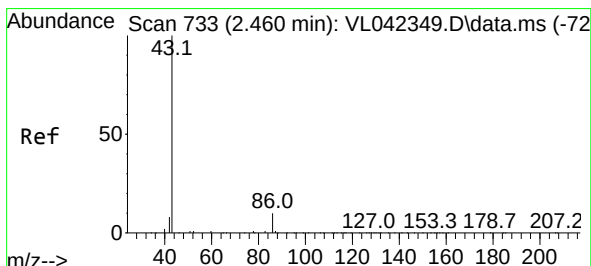
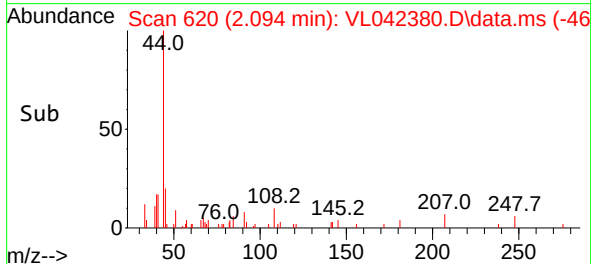
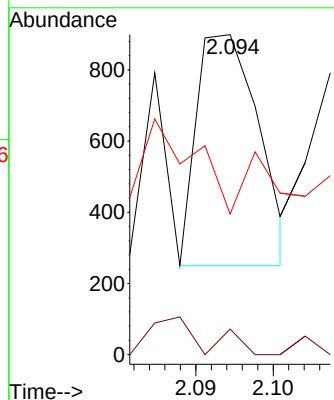
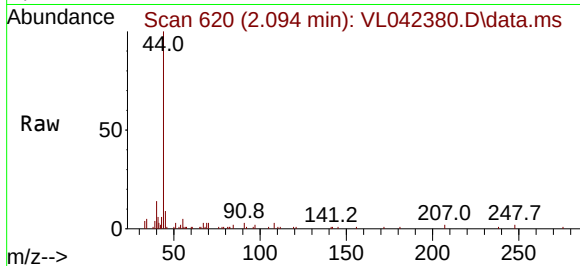




#21
 Allyl Chloride
 Concen: 0.036 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

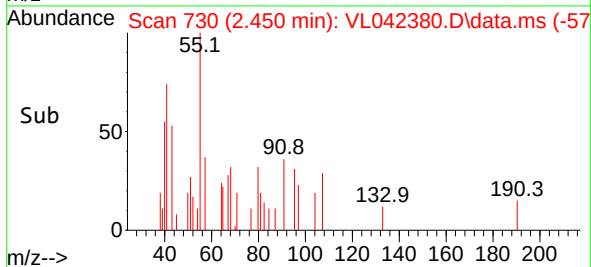
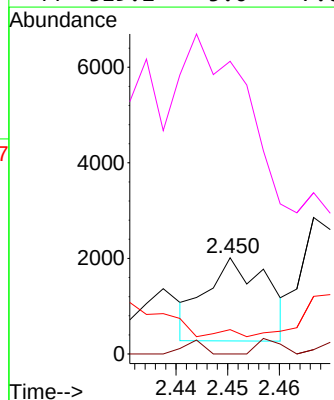
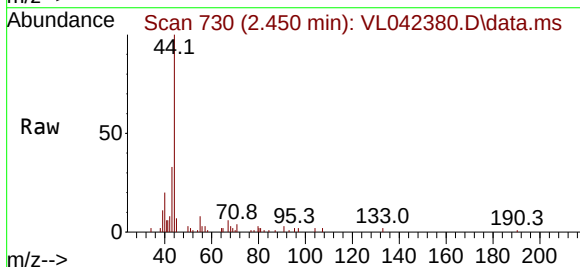
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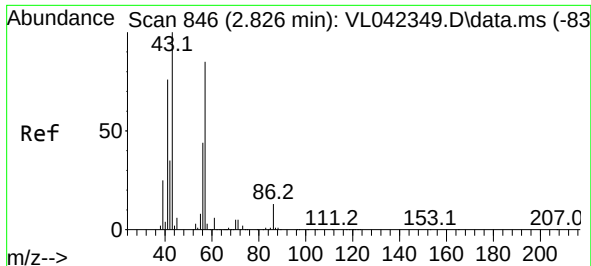
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 Ion Ratio Lower Upper
 41 100
 76 24.7 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 0.239 ppbv
 RT: 2.450 min Scan# 730
 Delta R.T. -0.010 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 1426
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.5 9.7#
 42 3.6 7.8 11.8#
 44 319.2 5.0 7.6#

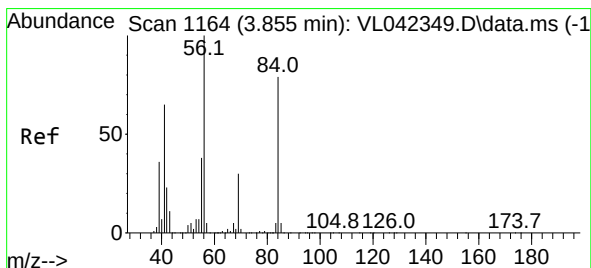
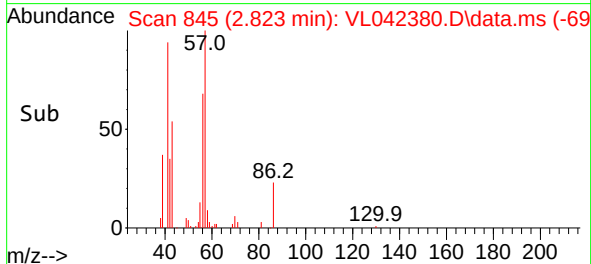
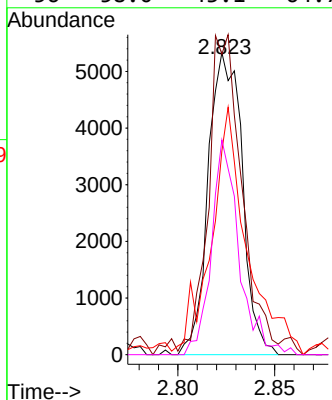
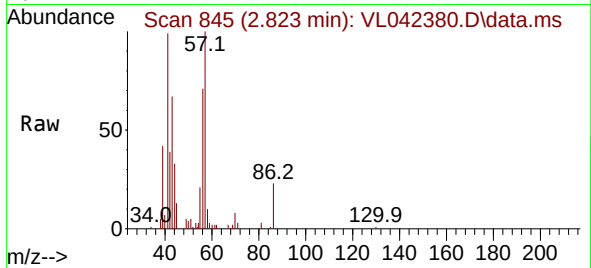




#26
Hexane
Concen: 0.441 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

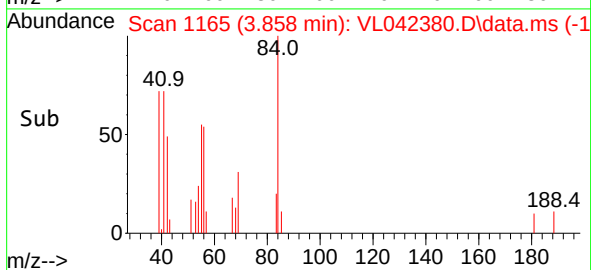
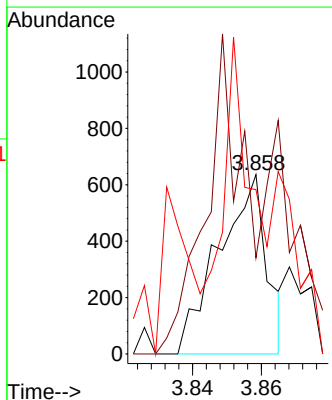
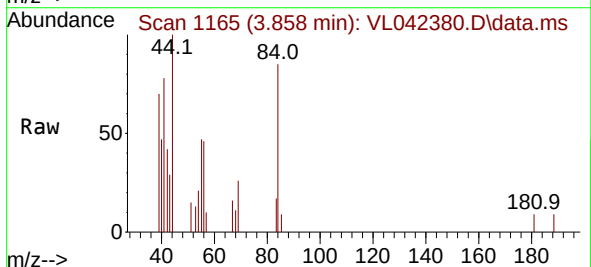
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

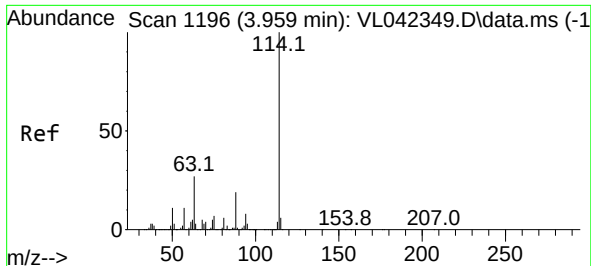
Tgt Ion: 57 Resp: 6487
Ion Ratio Lower Upper
57 100
41 103.5 77.9 116.9
43 88.6 208.4 312.6#
56 58.0 43.1 64.7



#30
Cyclohexane
Concen: 0.052 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 84 Resp: 614
Ion Ratio Lower Upper
84 100
56 230.9 101.0 151.4#
41 232.4 67.4 101.0#

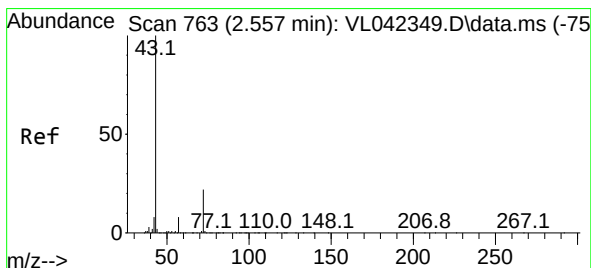
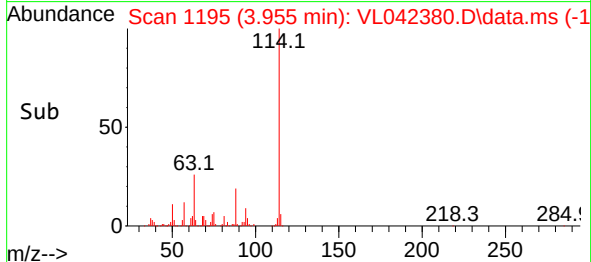
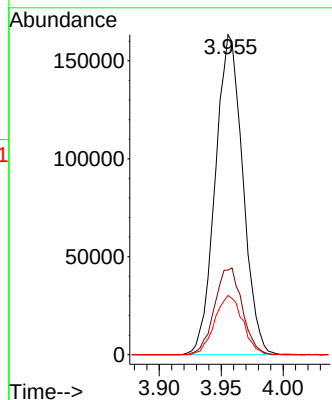
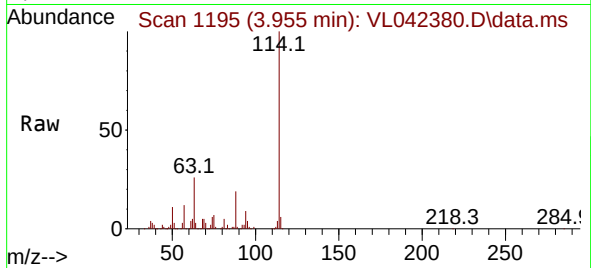




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

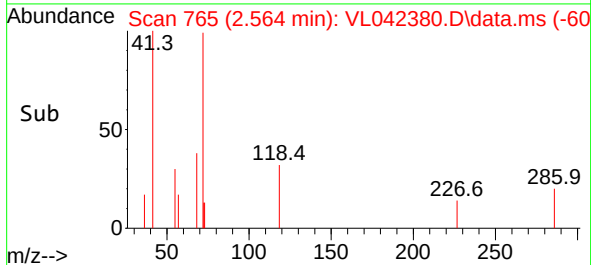
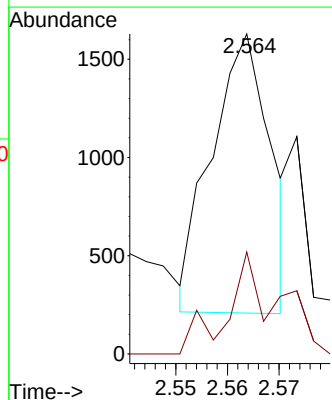
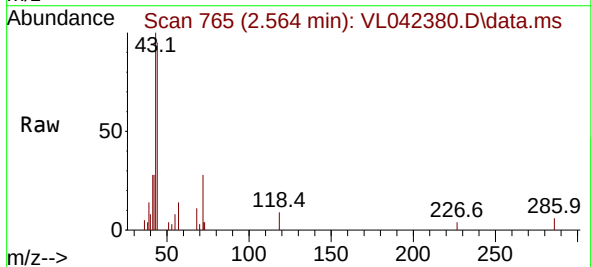
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

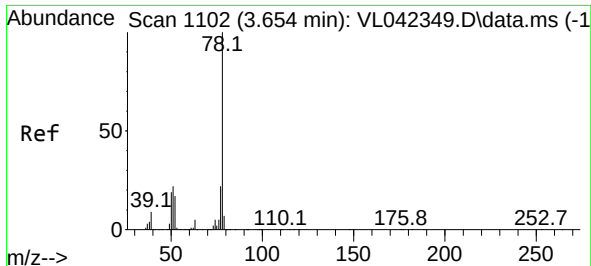
Tgt Ion:114 Resp: 252514
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 18.8 15.5 23.3



#34
2-Butanone
Concen: 0.056 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 1119
Ion Ratio Lower Upper
43 100
72 31.9 18.2 27.2#

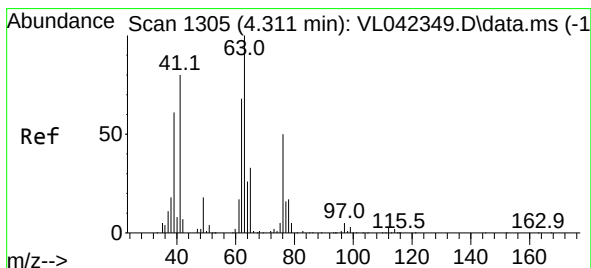
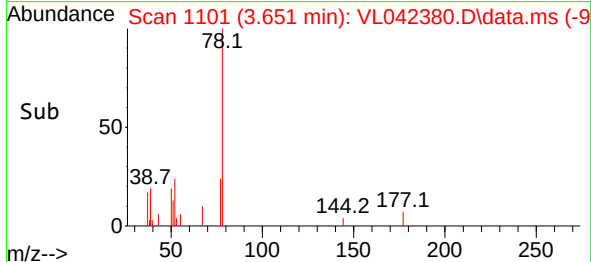
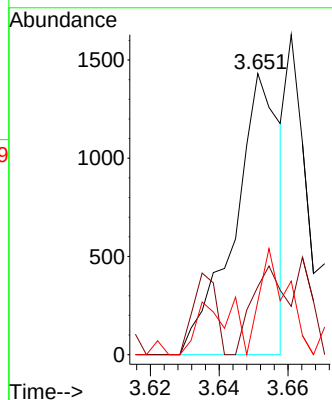
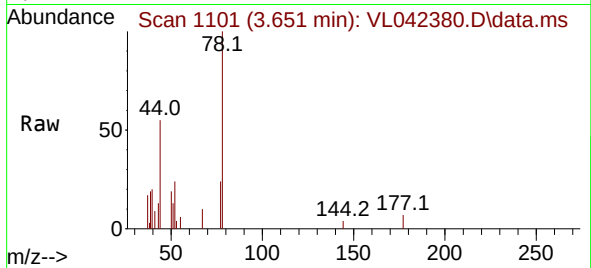




#36
Benzene
Concen: 0.048 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

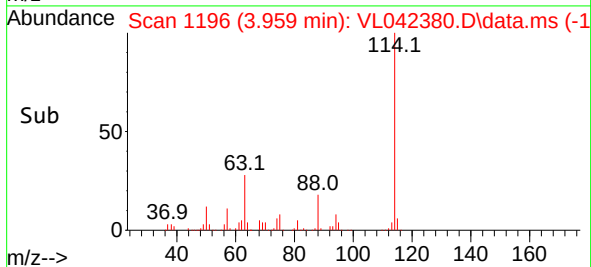
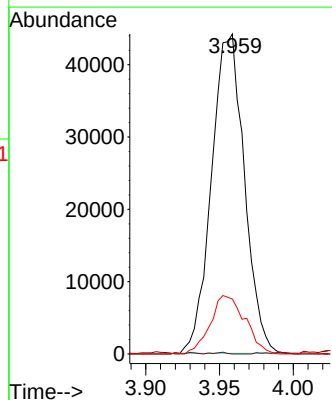
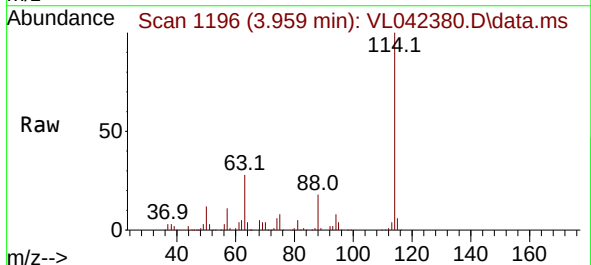
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

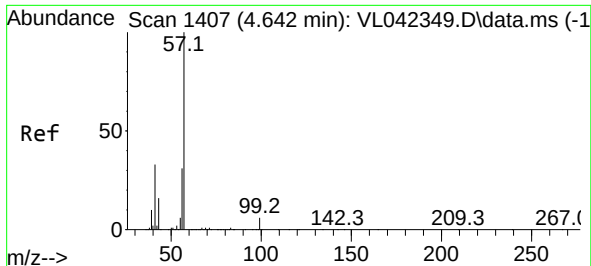
Tgt Ion: 78 Resp: 1309
Ion Ratio Lower Upper
78 100
77 24.2 17.4 26.0
50 9.5 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.735 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 63 Resp: 68357
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 17.2 54.3 81.5#

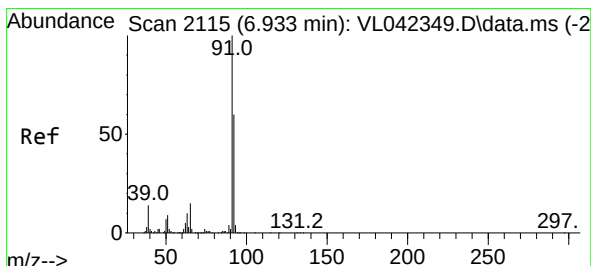
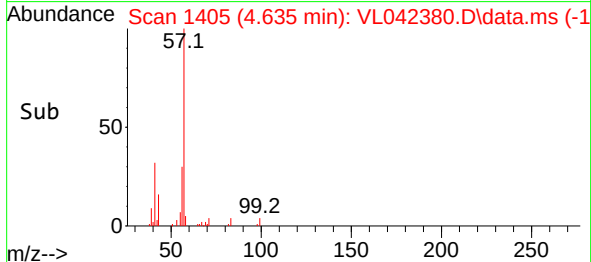
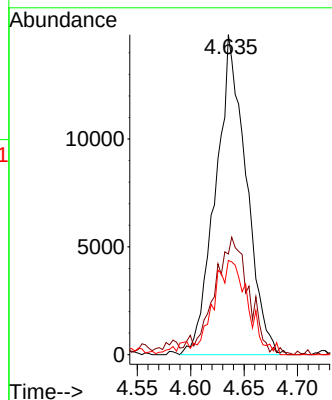
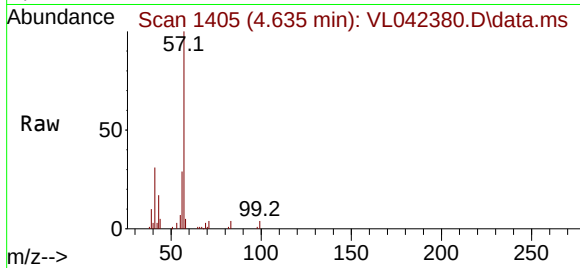




#44
 2,2,4-Trimethylpentane
 Concen: 0.626 ppbv
 RT: 4.635 min Scan# 1405
 Delta R.T. -0.006 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

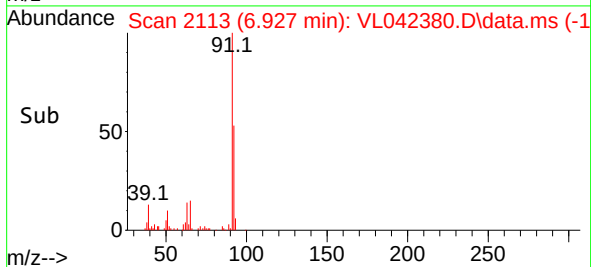
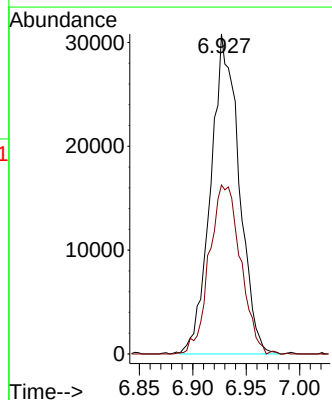
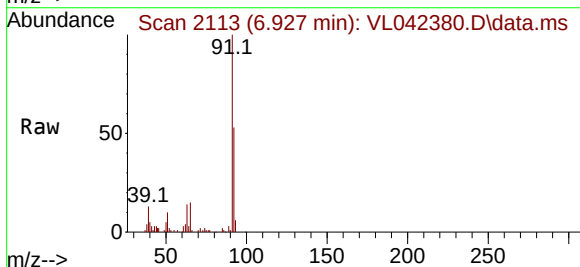
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

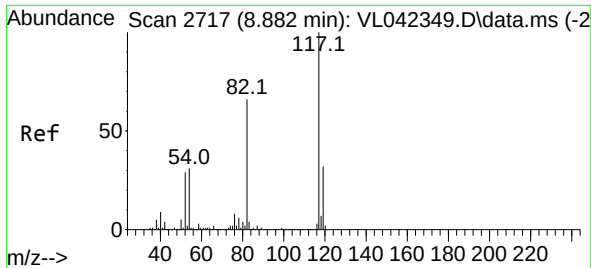
Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.2	27.2	40.8
56	35.5	25.7	38.5



#53
 Toluene
 Concen: 1.745 ppbv
 RT: 6.927 min Scan# 2113
 Delta R.T. -0.006 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.2	72.4

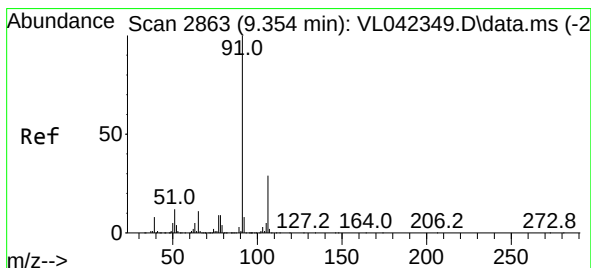
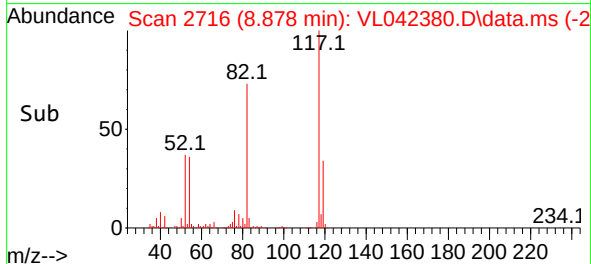
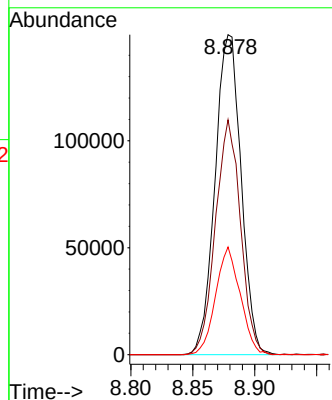
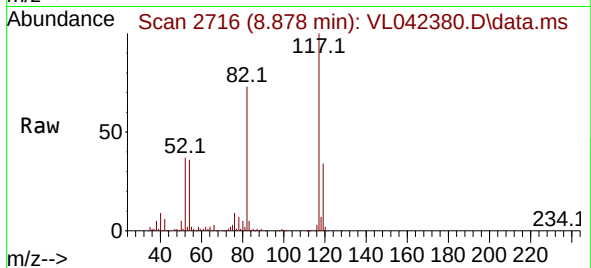




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

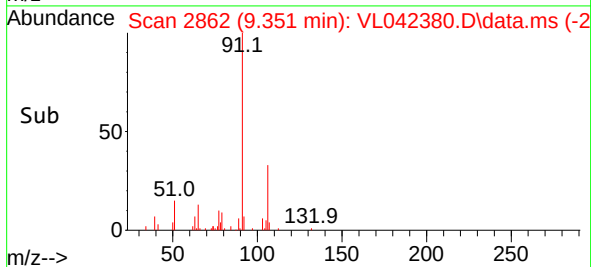
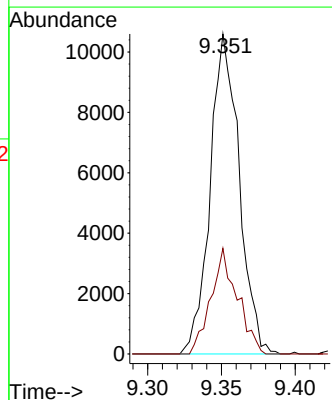
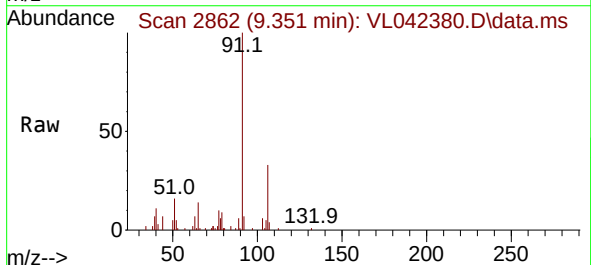
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

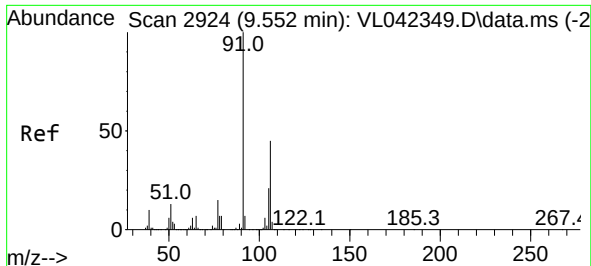
Tgt Ion:117 Resp: 219443
Ion Ratio Lower Upper
117 100
82 70.4 57.8 86.6
119 31.8 25.2 37.8



#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 14493
Ion Ratio Lower Upper
91 100
106 33.0 23.0 34.4





#59

m/p-Xylene

Concen: 1.196 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

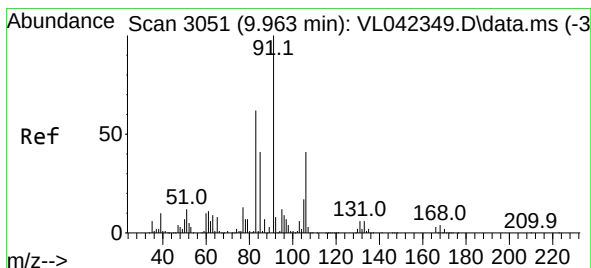
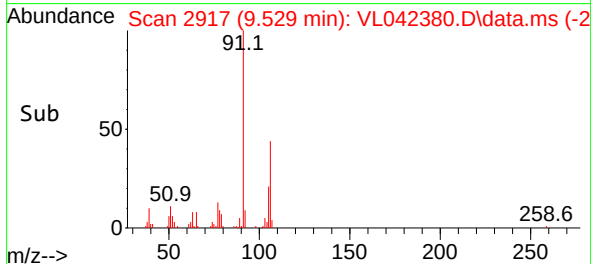
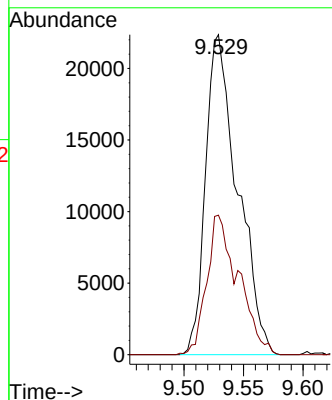
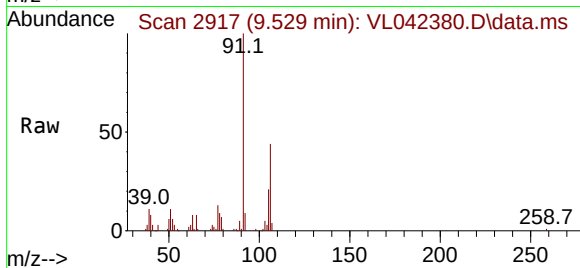
IA-B2-1-03312025DL

Tgt Ion: 91 Resp: 41899

Ion Ratio Lower Upper

91 100

106 43.0 35.4 53.2



#60

o-Xylene

Concen: 0.457 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042380.D

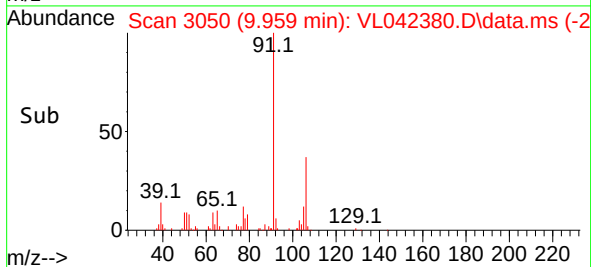
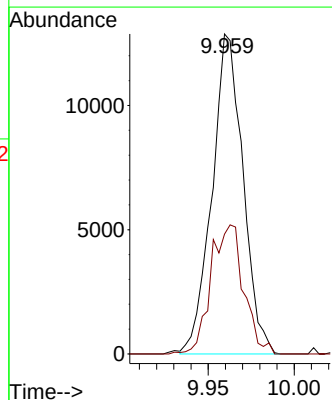
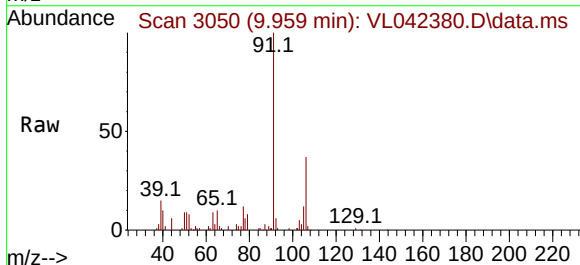
Acq: 18 Apr 2025 03:34

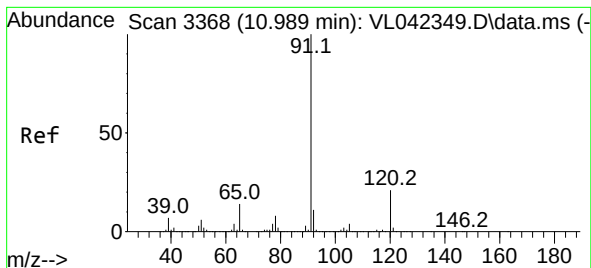
Tgt Ion: 91 Resp: 16128

Ion Ratio Lower Upper

91 100

106 42.8 21.1 63.4





#64

n-propylbenzene

Concen: 0.035 ppbv

RT: 10.982 min Scan# 3178

Delta R.T. -0.006 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_1

ClientSampleId :

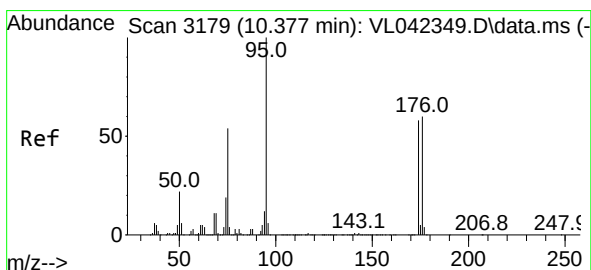
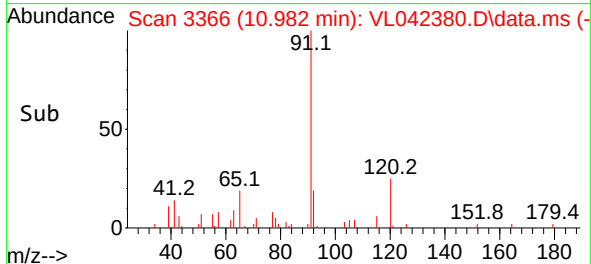
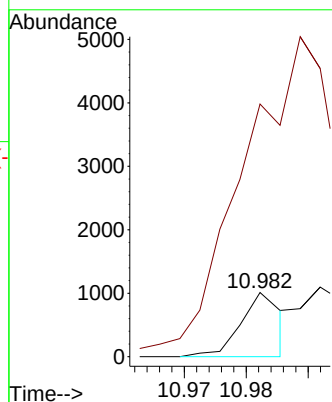
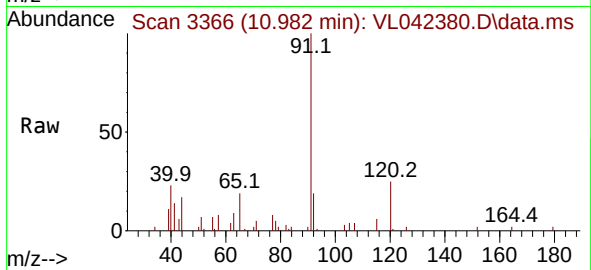
IA-B2-1-03312025DL

Tgt Ion:120 Resp: 462

Ion Ratio Lower Upper

120 100

91 404.5 392.4 588.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.416 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

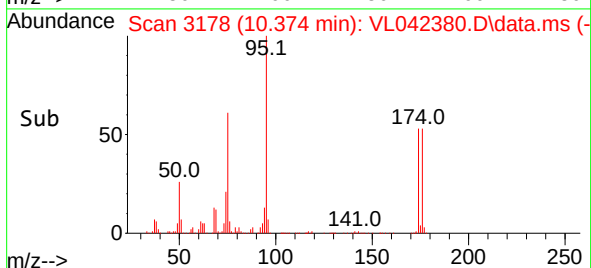
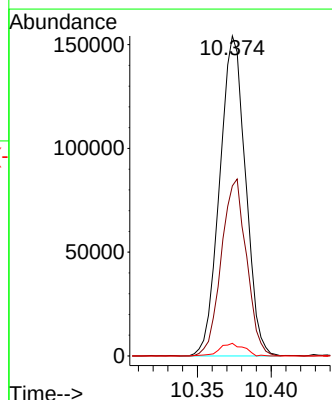
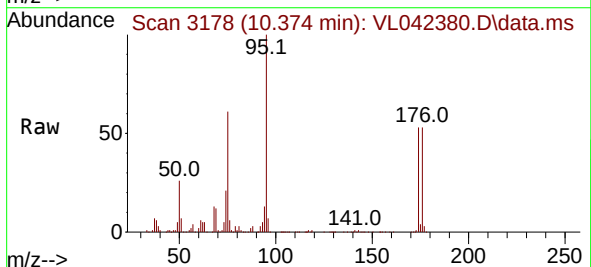
Tgt Ion: 95 Resp: 187830

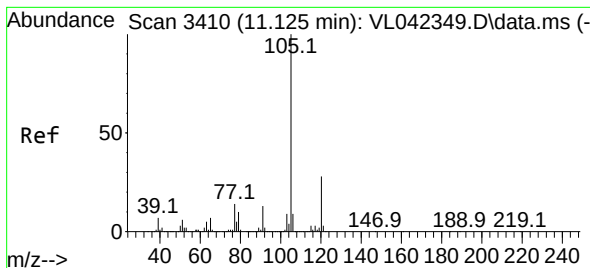
Ion Ratio Lower Upper

95 100

174 53.9 48.5 72.7

175 3.8 3.7 5.5

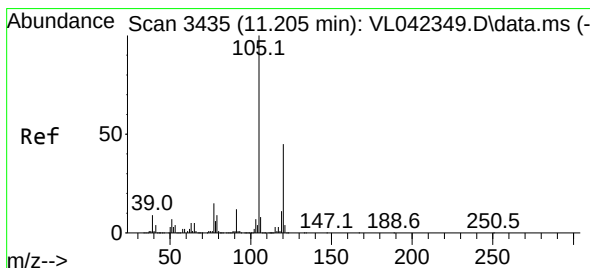
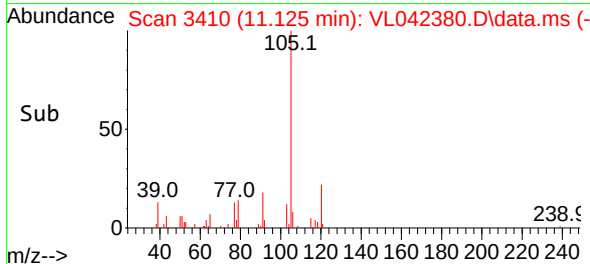
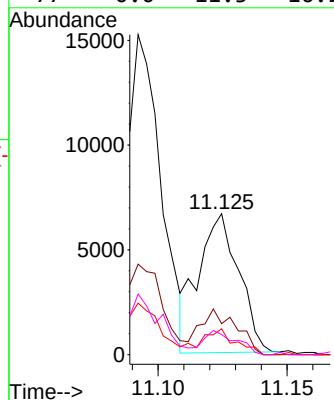
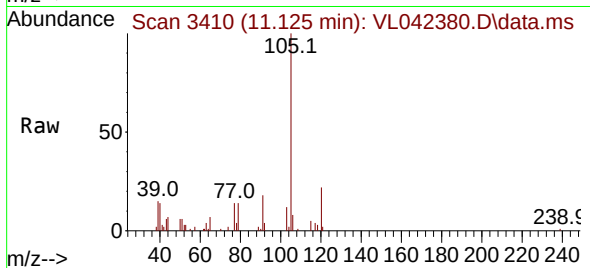




#72
4-Ethyltoluene
Concen: 0.168 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

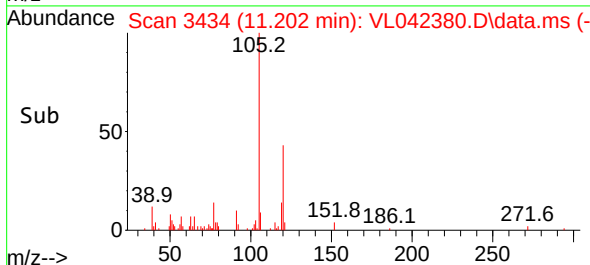
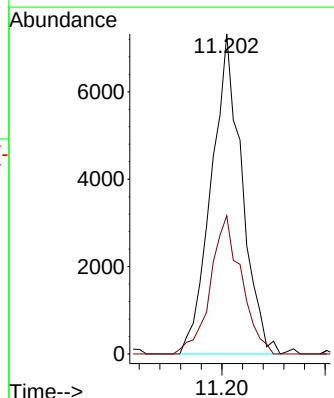
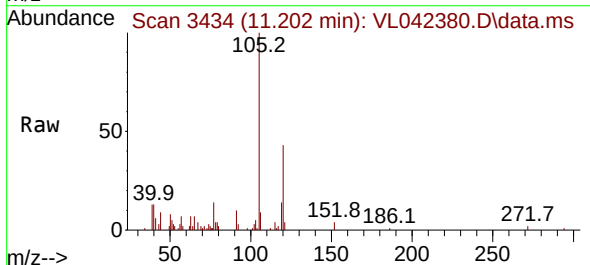
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

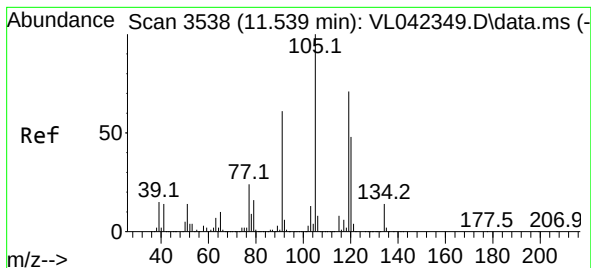
Tgt Ion:105 Resp: 7252
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 13.8 10.4 15.6
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:105 Resp: 7522
Ion Ratio Lower Upper
105 100
120 43.2 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 0.493 ppbv

RT: 11.532 min Scan# 3

Delta R.T. -0.006 min

Lab File: VL042380.D

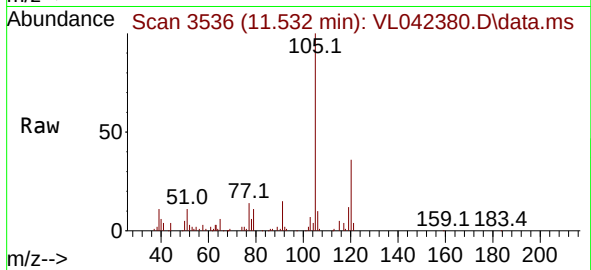
Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL



Tgt Ion:105 Resp: 21924

Ion Ratio Lower Upper

105 100

120 35.8 38.1 57.1#

91 15.0 48.8 73.2#

77 14.5 19.0 28.4#

