

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042276.D
 Acq On : 08 Apr 2025 23:13
 Operator : SY/MD
 Sample : Q1728-09DUP 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP

Quant Time: Apr 09 02:01:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

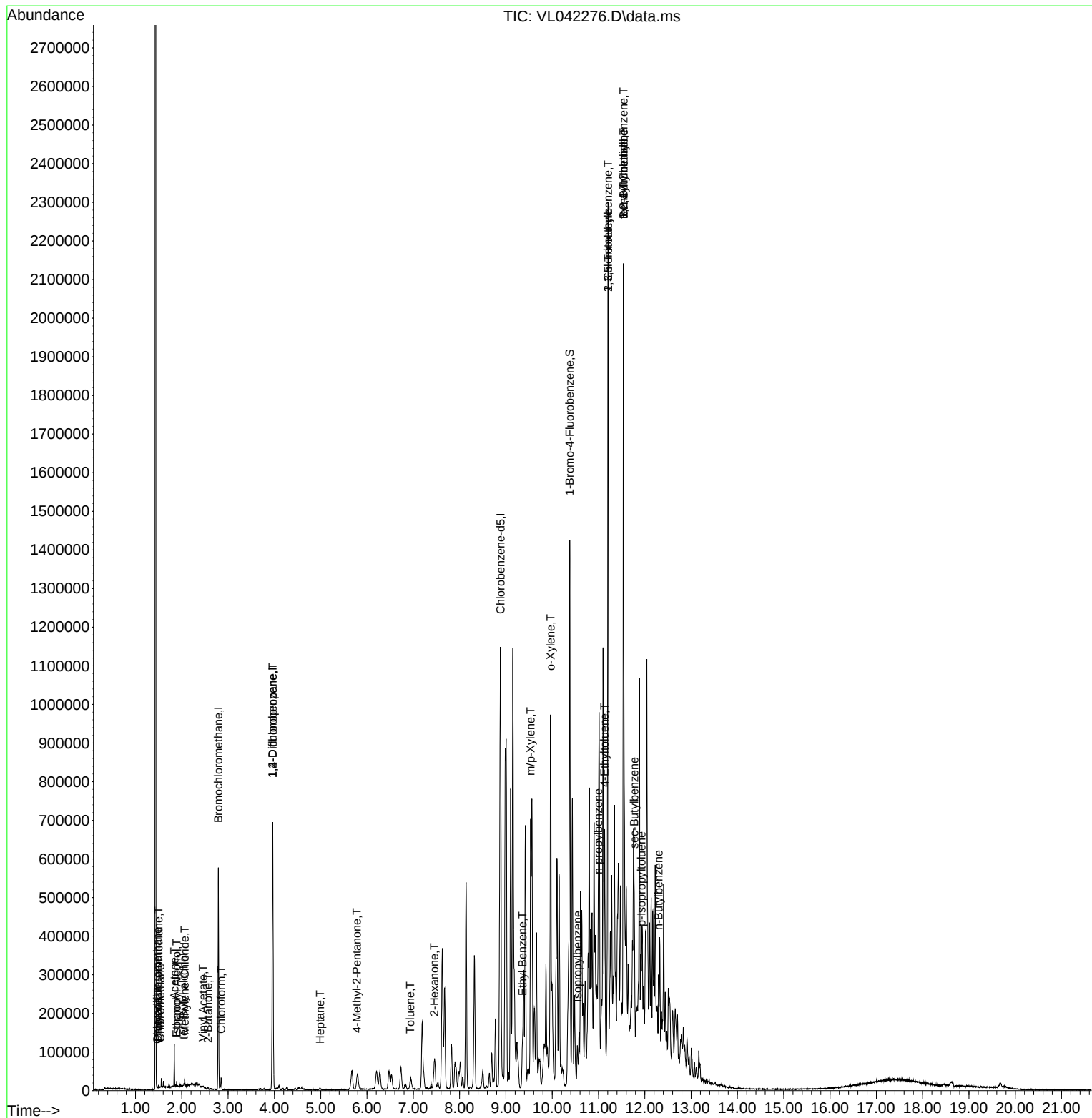
Internal Standards						
1) Bromochloromethane	2.790	49	158259	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390082	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	405082	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	316771	9.522	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	996	0.043	ppbv #	46
3) Chlorodifluoromethane	1.476	51	761	0.032	ppbv #	91
4) Chloromethane	1.534	50	313	0.033	ppbv #	65
9) Propene	1.489	41	659	0.060	ppbv	98
10) Heptane	4.985	43	906	0.031	ppbv #	28
13) Ethanol	1.887	45	5302	5.126	ppbv #	27
15) Acetone	1.839	43	47636	2.152	ppbv	94
17) tert-Butyl alcohol	2.042	59	2517	0.091	ppbv #	80
19) Isopropyl Alcohol	1.887	45	5302	0.425	ppbv #	1
20) Methylene Chloride	2.062	84	2303	0.279	ppbv	93
23) Vinyl Acetate	2.460	43	1777	0.186	ppbv #	42
29) Chloroform	2.852	83	11762	0.362	ppbv	88
34) 2-Butanone	2.567	43	3544	0.125	ppbv	91
39) 1,2-Dichloropropane	3.962	63	99889	7.093	ppbv #	21
50) 4-Methyl-2-Pentanone	5.781	43	2600	0.058	ppbv	93
51) 2-Hexanone	7.454	43	10393	0.282	ppbv #	47
53) Toluene	6.936	91	18286	0.399	ppbv	95
58) Ethyl Benzene	9.357	91	36098	0.502	ppbv	100
59) m/p-Xylene	9.532	91	497808	8.664	ppbv	100
60) o-Xylene	9.966	91	414511	7.197	ppbv	96
62) Isopropylbenzene	10.545	105	32420	0.376	ppbv	99
64) n-propylbenzene	10.992	120	11198	0.505	ppbv	73
65) tert-Butylbenzene	11.539	119	89265	1.121	ppbv #	76
66) Benzyl Chloride	11.539	91	89753	10.619	ppbv #	68
67) sec-Butylbenzene	11.772	105	32418	0.293	ppbv #	66
69) p-Isopropyltoluene	11.927	119	36608	0.384	ppbv	99
70) n-Butylbenzene	12.296	91	23950	0.246	ppbv #	10
71) 2-Chlorotoluene	11.205	91	54171	0.810	ppbv	76
72) 4-Ethyltoluene	11.128	105	179822	2.507	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.205	105	436966	6.977	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	732665	10.154	ppbv #	66

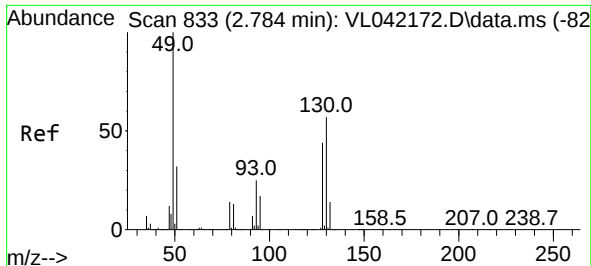
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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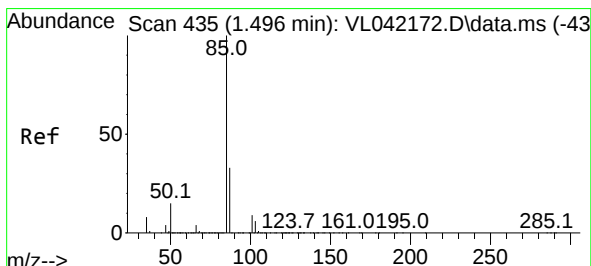
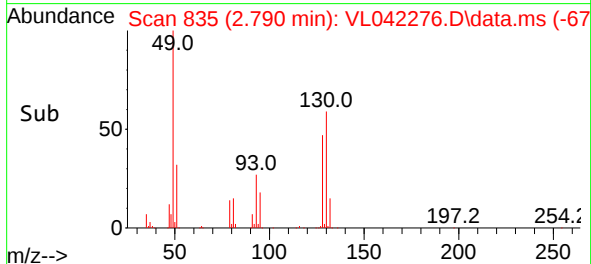
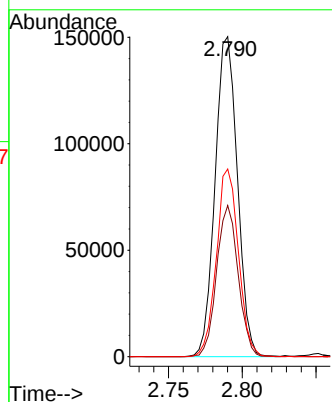
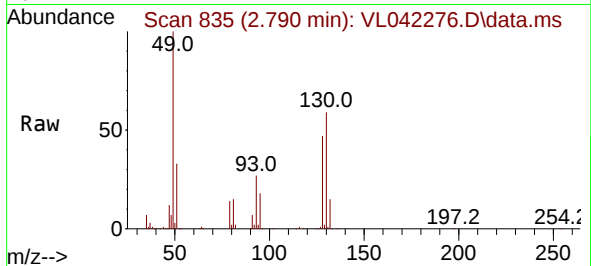




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

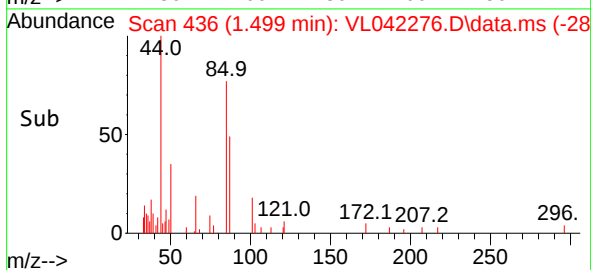
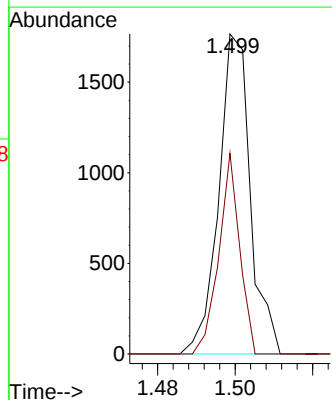
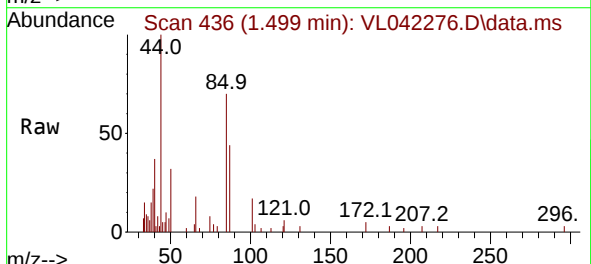
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP

Tgt Ion: 49 Resp: 158259
 Ion Ratio Lower Upper
 49 100
 128 45.7 22.9 68.5
 130 57.9 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.043 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.003 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

Tgt Ion: 85 Resp: 996
 Ion Ratio Lower Upper
 85 100
 87 62.7 26.1 39.1#

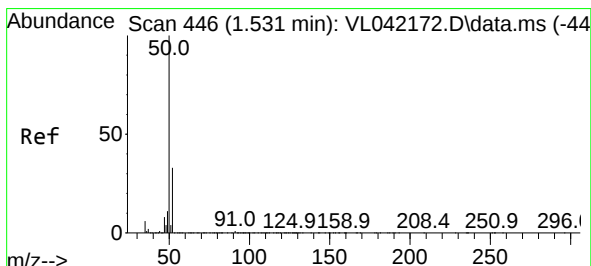
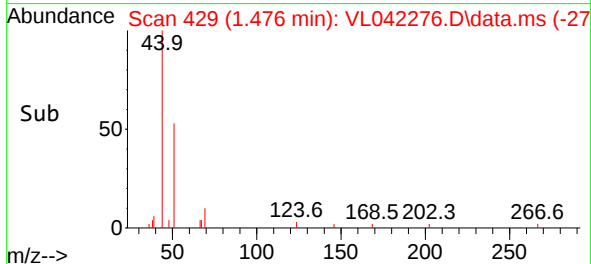
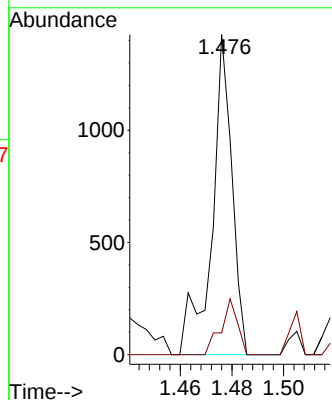
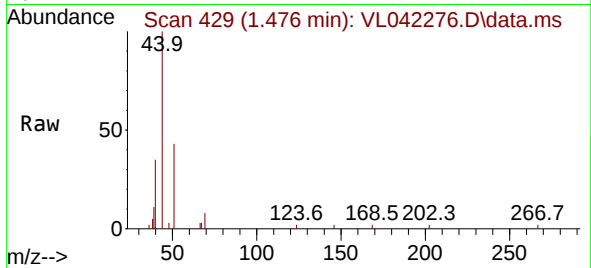




#3
Chlorodifluoromethane
Concen: 0.032 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

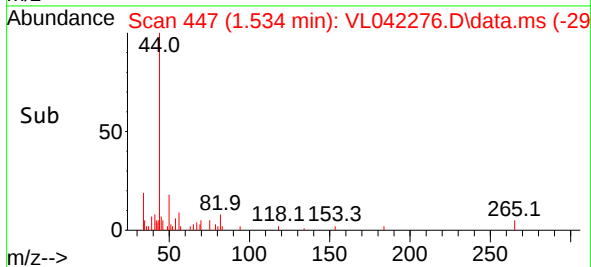
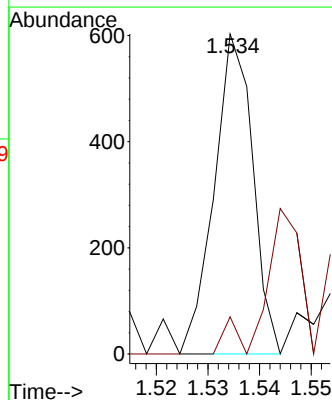
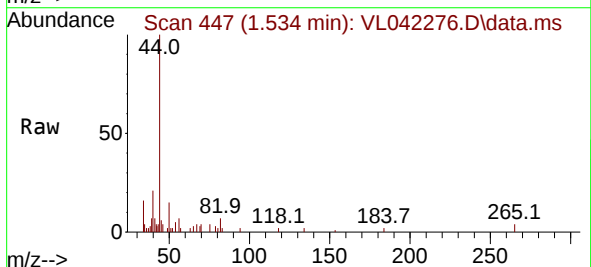
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

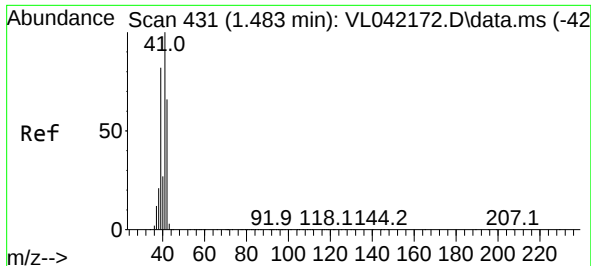
Tgt Ion: 51 Resp: 761
Ion Ratio Lower Upper
51 100
67 14.6 15.0 22.6#



#4
Chloromethane
Concen: 0.033 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 50 Resp: 313
Ion Ratio Lower Upper
50 100
52 12.9 26.1 39.1#





#9

Propene

Concen: 0.060 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

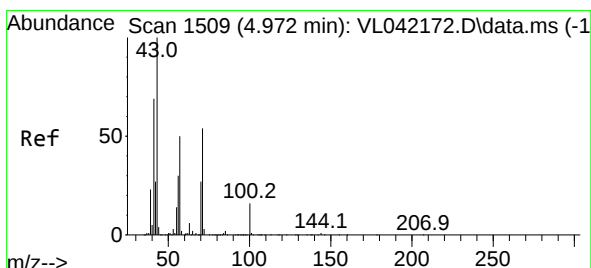
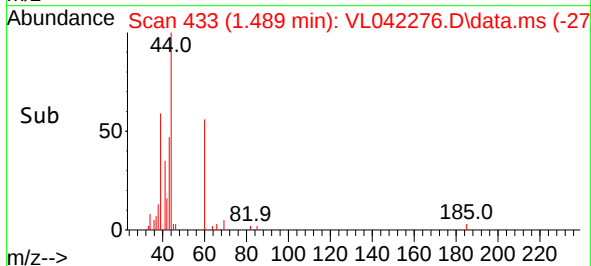
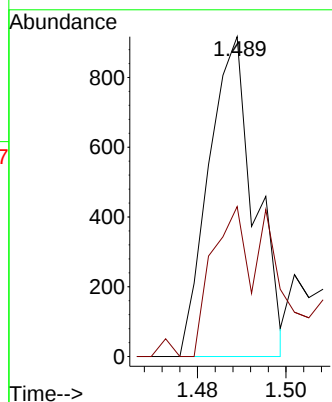
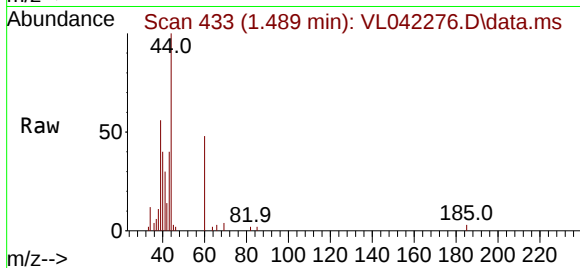
SSSG-B2-1-04022025DUP

Tgt Ion: 41 Resp: 659

Ion Ratio Lower Upper

41 100

42 68.0 55.4 83.2



#10

Heptane

Concen: 0.031 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.013 min

Lab File: VL042276.D

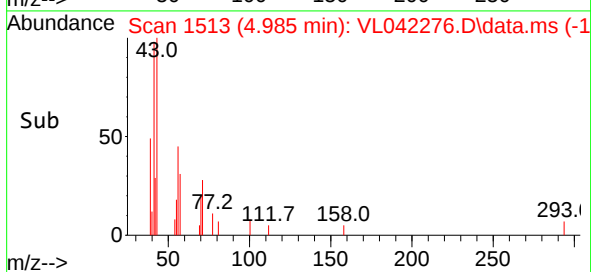
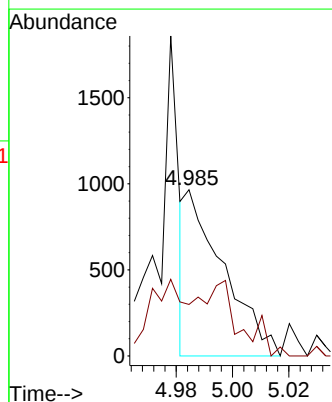
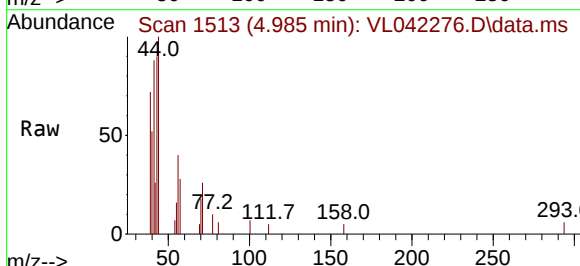
Acq: 08 Apr 2025 23:13

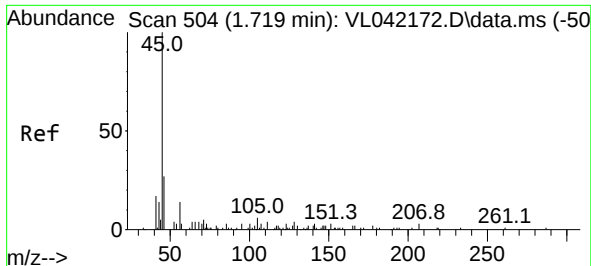
Tgt Ion: 43 Resp: 906

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.2#

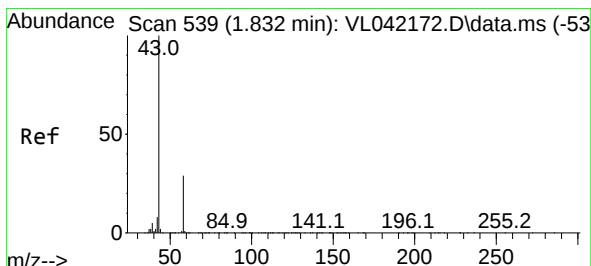
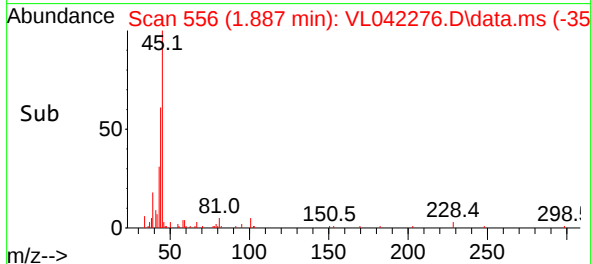
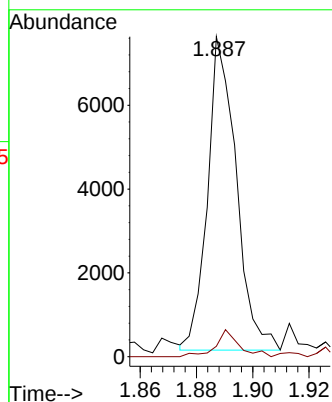
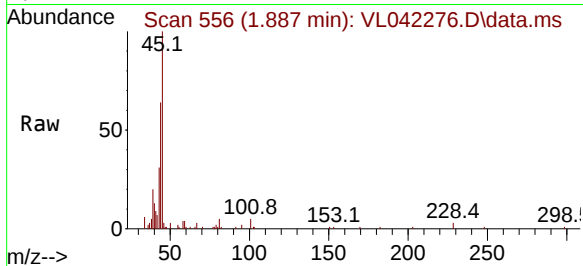




#13
Ethanol
Concen: 5.126 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.168 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

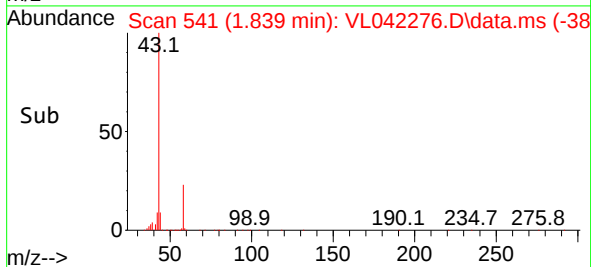
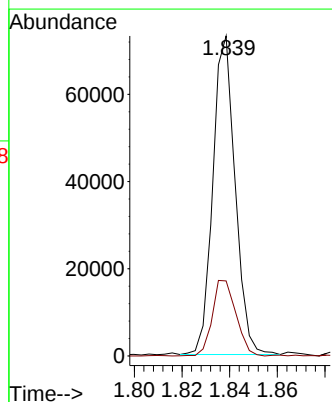
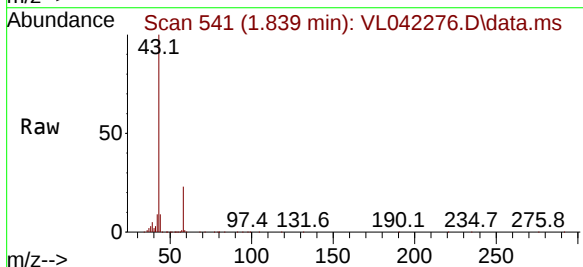
Instrument :
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ClientSampleId :
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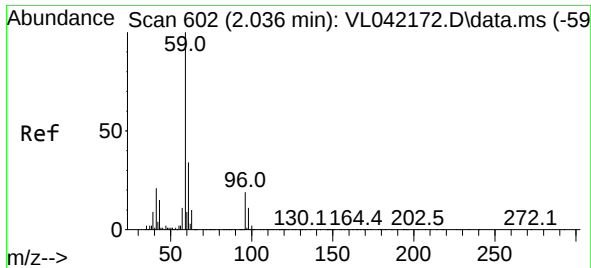
Tgt Ion: 45 Resp: 5302
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#



#15
Acetone
Concen: 2.152 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 43 Resp: 47636
Ion Ratio Lower Upper
43 100
58 25.6 23.2 34.8

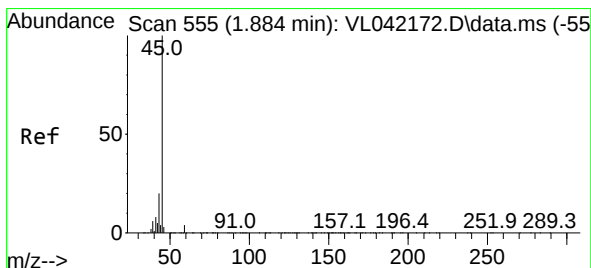
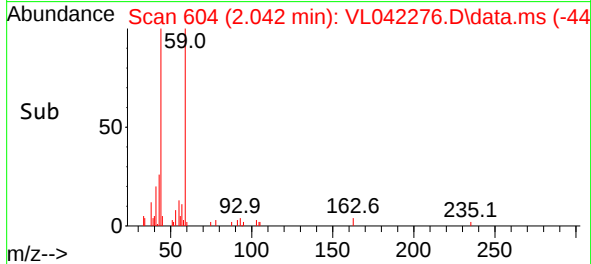
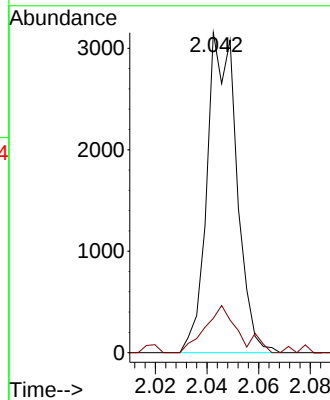
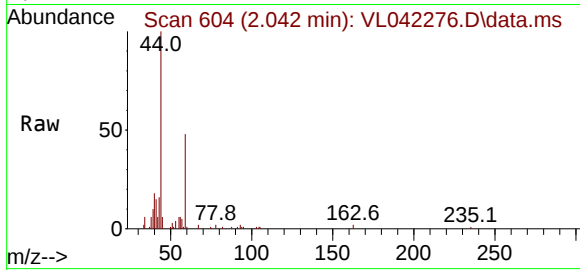




#17
tert-Butyl alcohol
Concen: 0.091 ppbv
RT: 2.042 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

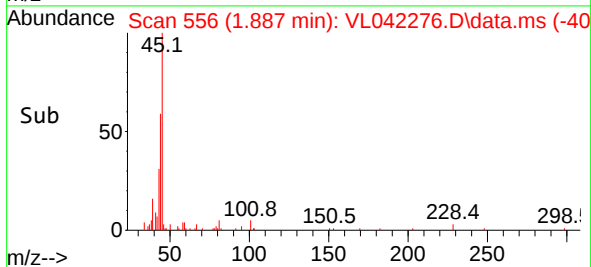
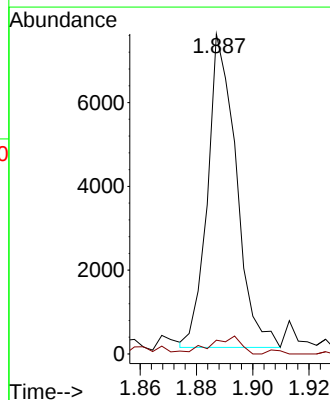
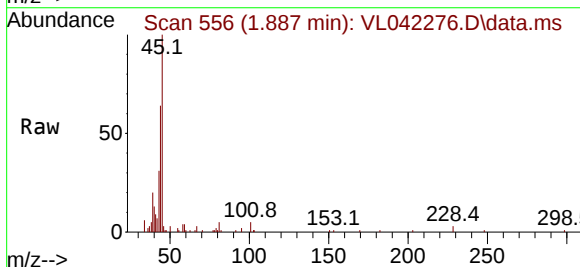
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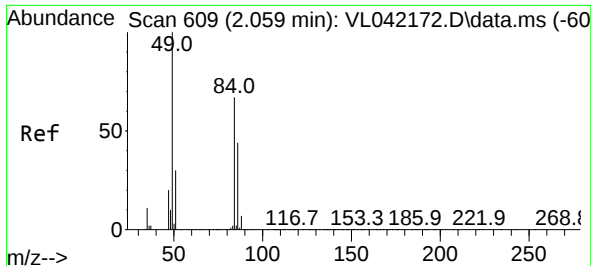
Tgt Ion: 59 Resp: 2517
Ion Ratio Lower Upper
59 100
57 18.6 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 0.425 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

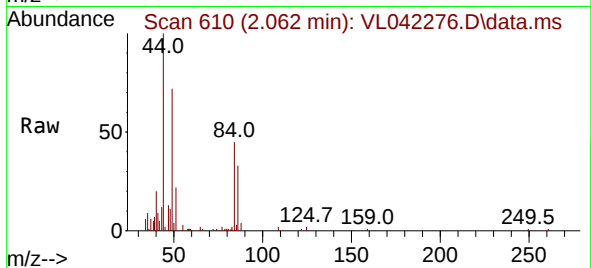
Tgt Ion: 45 Resp: 5302
Ion Ratio Lower Upper
45 100
58 228.8 36.9 55.3#



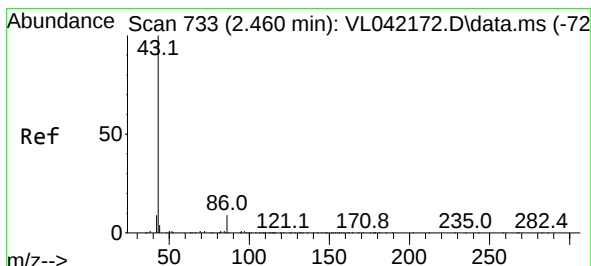
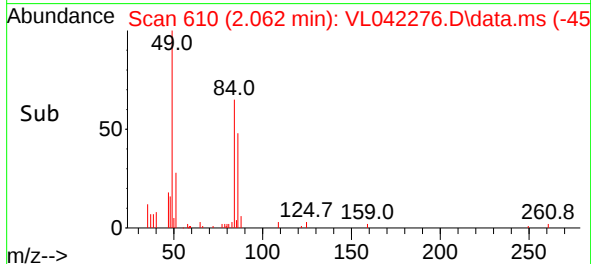
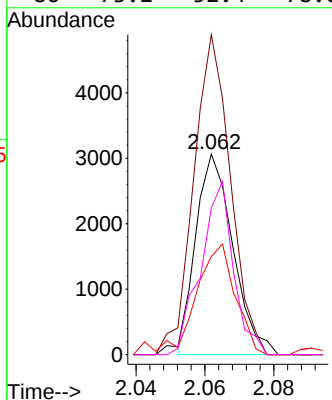


#20
Methylene Chloride
Concen: 0.279 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Instrument :
MSVOA_L
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SSSG-B2-1-04022025DUP

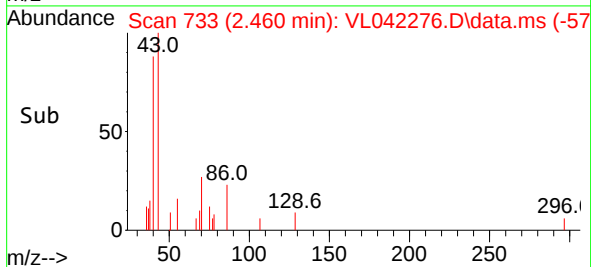
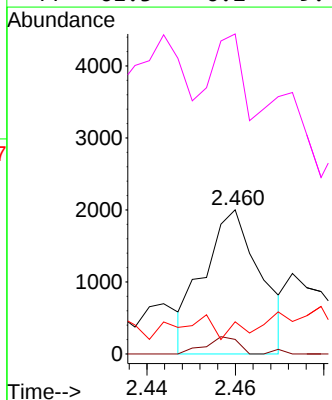
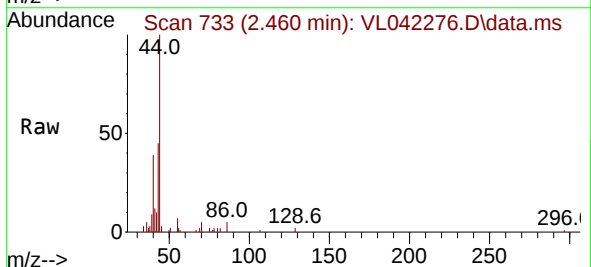


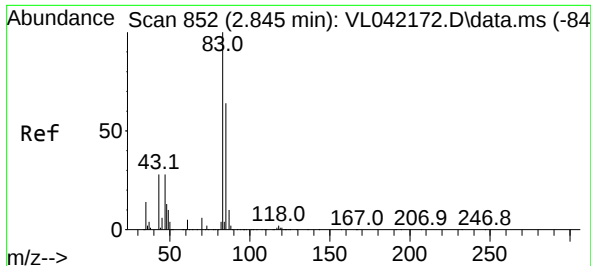
Tgt Ion: 84	Resp: 2303
Ion Ratio	Lower Upper
84 100	
49 159.5	120.2 180.4
51 48.9	37.4 56.0
86 73.2	52.4 78.6



#23
Vinyl Acetate
Concen: 0.186 ppbv
RT: 2.460 min Scan# 733
Delta R.T. -0.000 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 43	Resp: 1777
Ion Ratio	Lower Upper
43 100	
86 14.2	5.5 8.3#
42 5.4	8.6 13.0#
44 61.3	6.2 9.4#





#29

Chloroform

Concen: 0.362 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

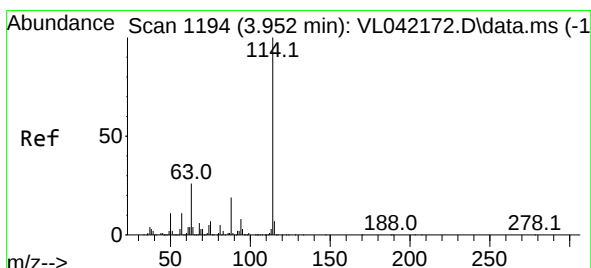
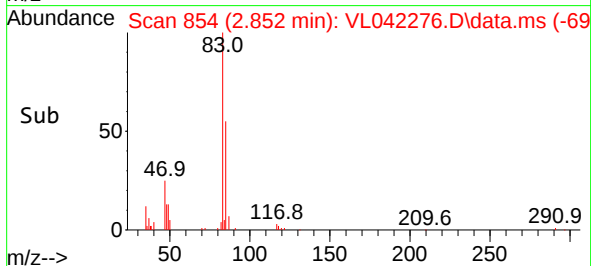
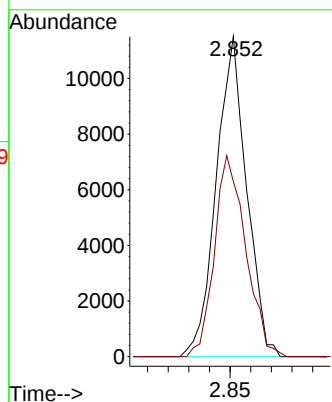
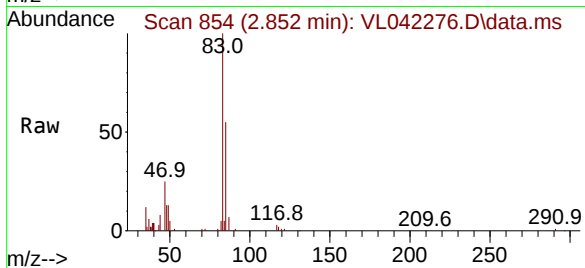
SSSG-B2-1-04022025DUP

Tgt Ion: 83 Resp: 11762

Ion Ratio Lower Upper

83 100

85 54.8 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

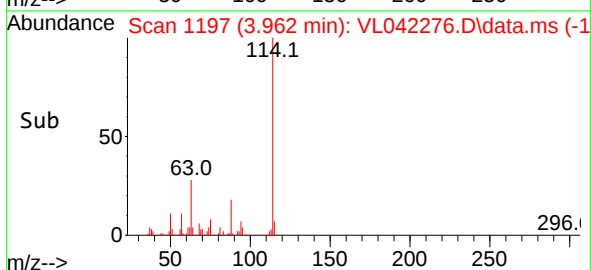
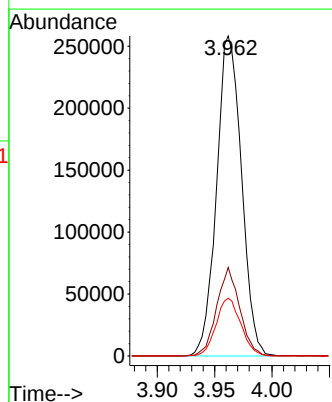
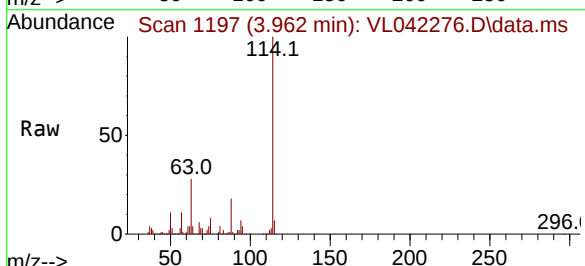
Tgt Ion: 114 Resp: 390082

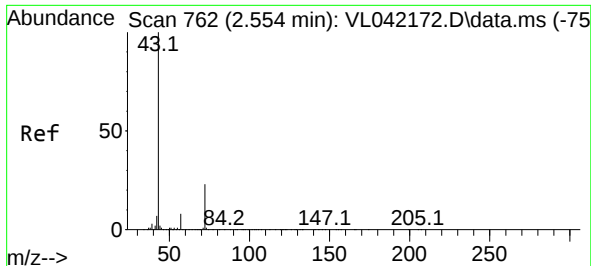
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 17.9 15.0 22.4

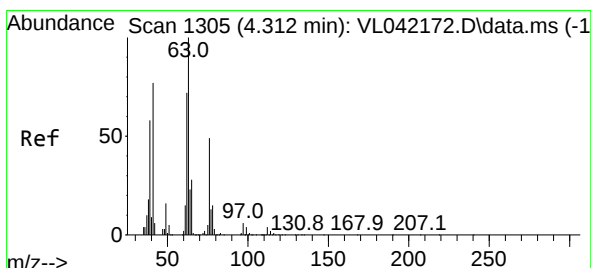
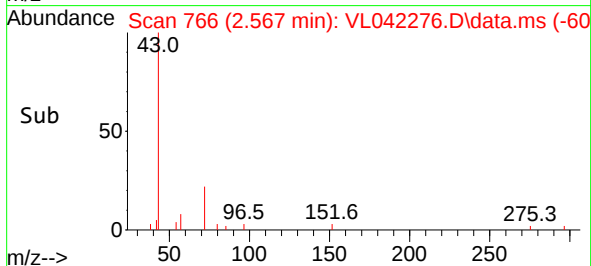
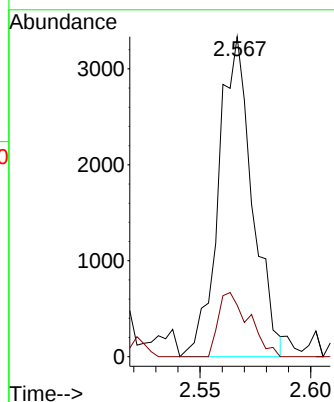
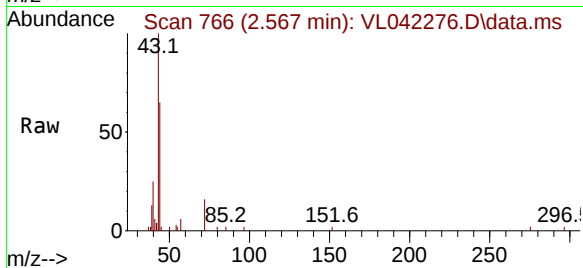




#34
2-Butanone
Concen: 0.125 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

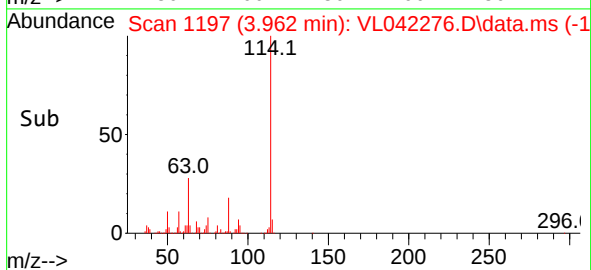
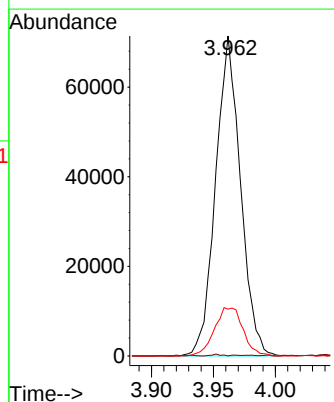
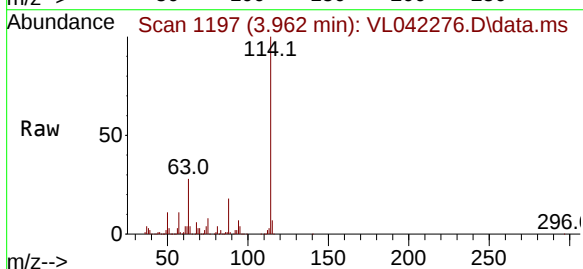
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

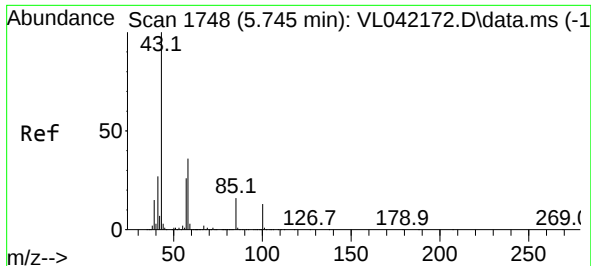
Tgt Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
72 18.3 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.093 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.350 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 63 Resp: 99889
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 14.6 57.6 86.4#

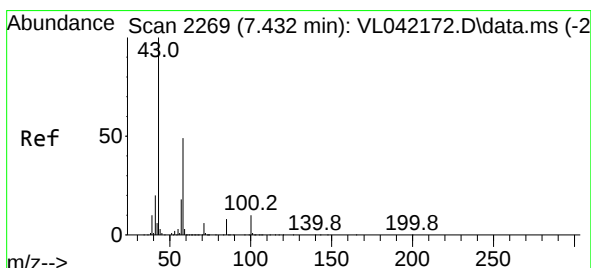
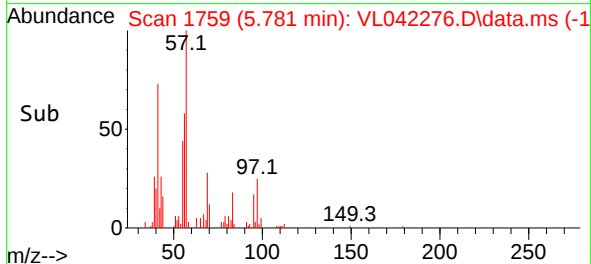
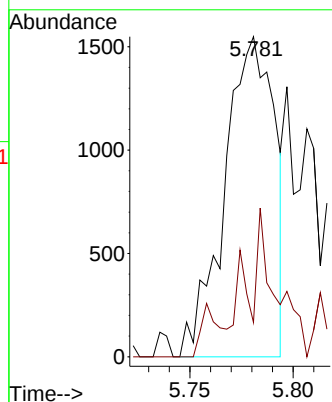
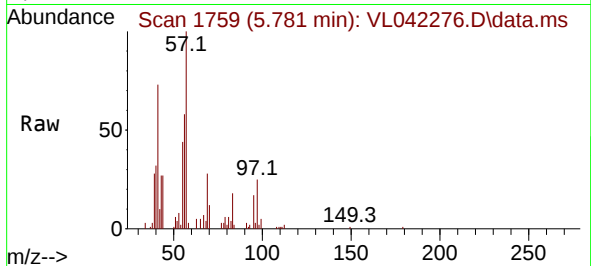




#50
4-Methyl-2-Pentanone
Concen: 0.058 ppbv
RT: 5.781 min Scan# 1759
Delta R.T. 0.035 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

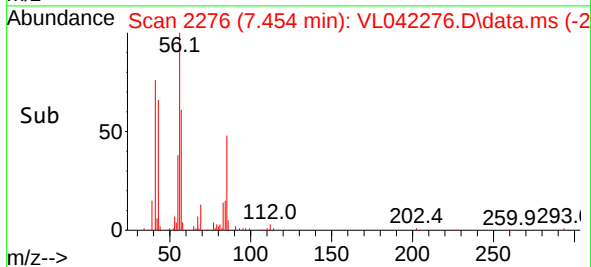
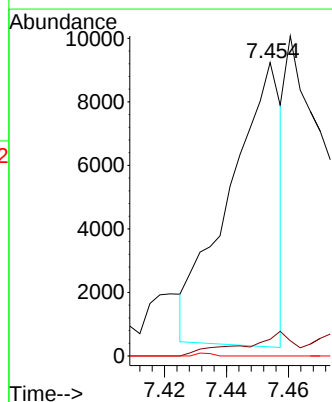
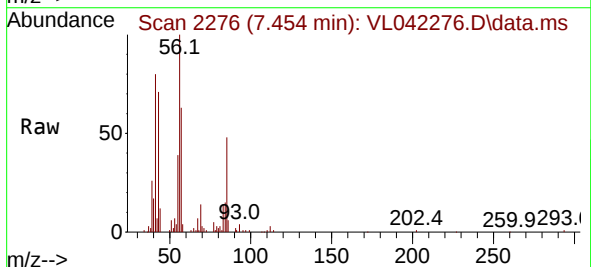
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-1-04022025DUP

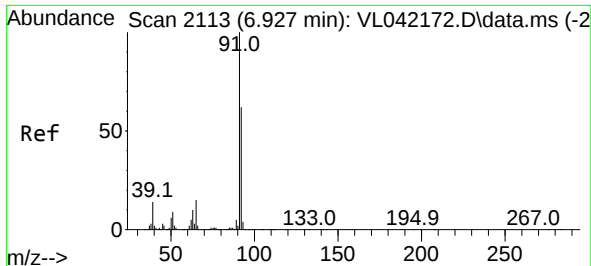
Tgt Ion: 43 Resp: 2600
Ion Ratio Lower Upper
43 100
58 40.7 29.0 43.6



#51
2-Hexanone
Concen: 0.282 ppbv
RT: 7.454 min Scan# 2276
Delta R.T. 0.022 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 43 Resp: 10393
Ion Ratio Lower Upper
43 100
58 13.3 39.7 59.5#
98 0.0 0.1 0.1#





#53

Toluene

Concen: 0.399 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

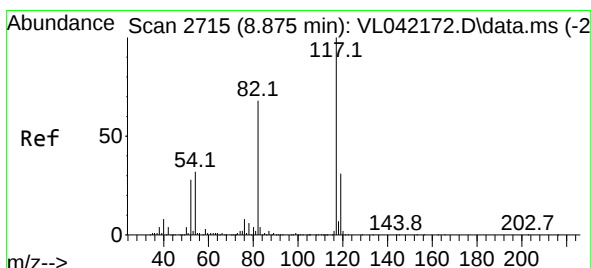
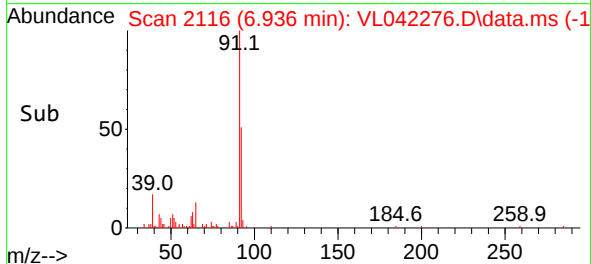
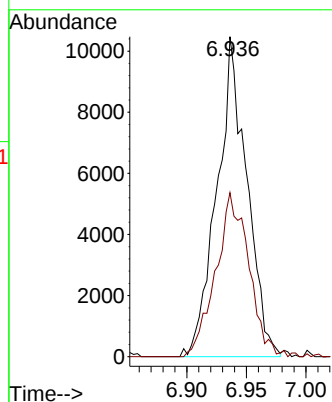
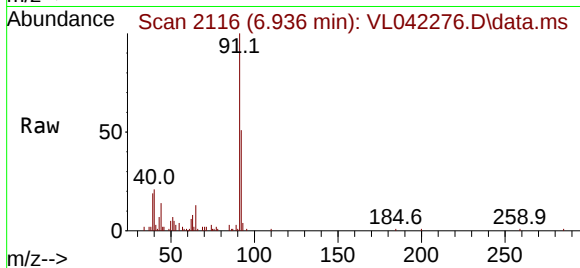
SSSG-B2-1-04022025DUP

Tgt Ion: 91 Resp: 18286

Ion Ratio Lower Upper

91 100

92 56.6 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. 0.009 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

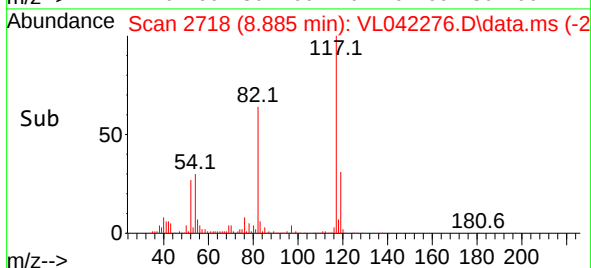
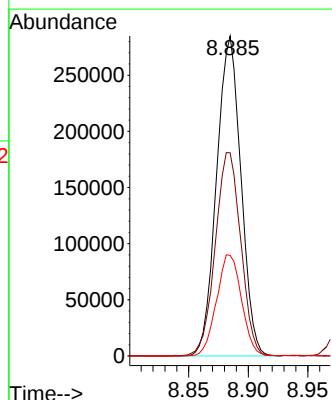
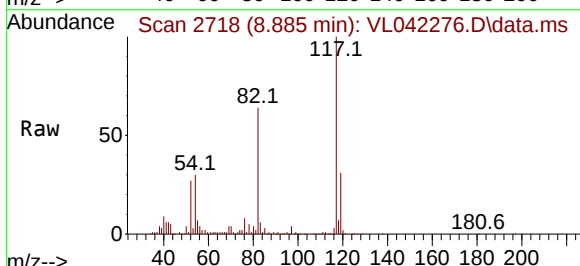
Tgt Ion: 117 Resp: 405082

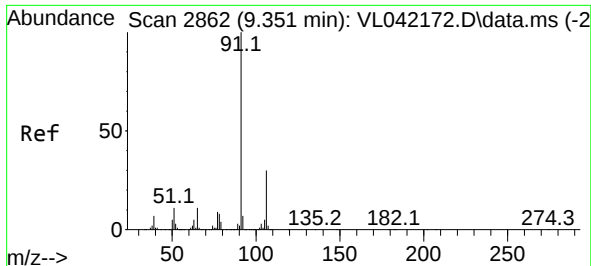
Ion Ratio Lower Upper

117 100

82 66.7 55.8 83.6

119 32.7 25.5 38.3

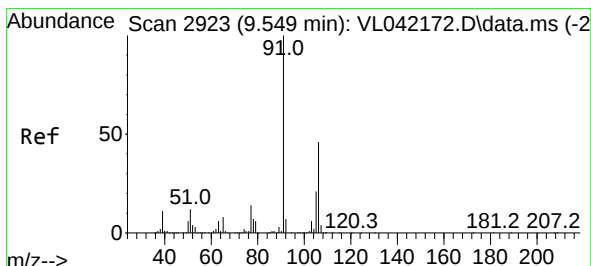
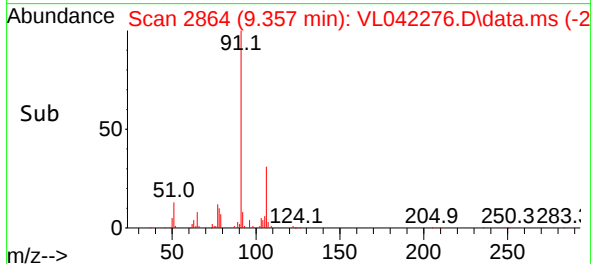
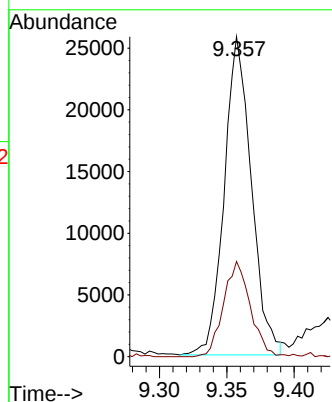
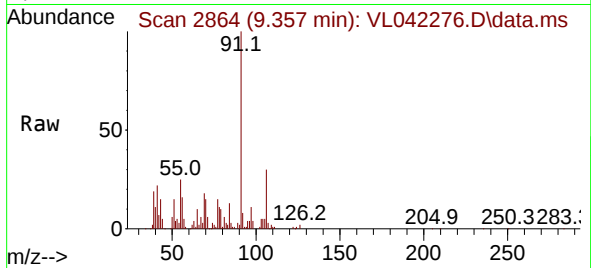




#58
Ethyl Benzene
Concen: 0.502 ppbv
RT: 9.357 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

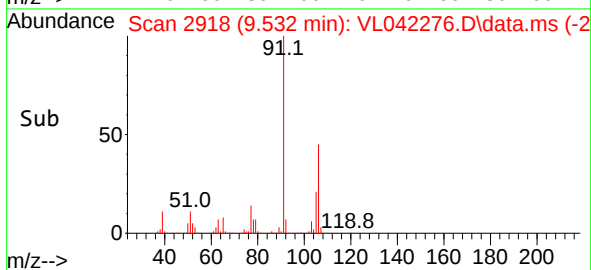
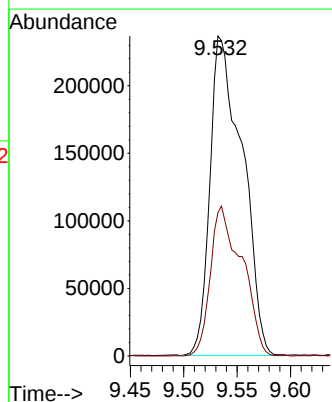
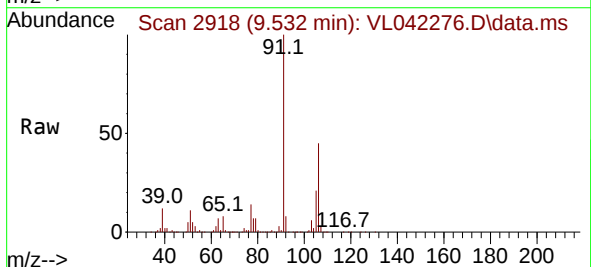
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

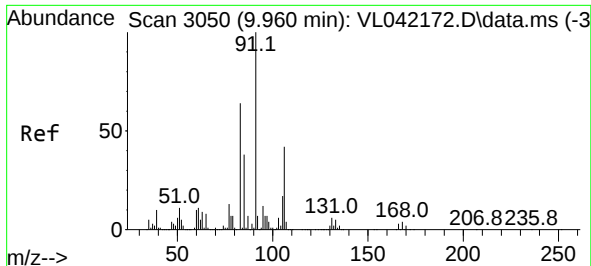
Tgt Ion: 91 Resp: 36098
Ion Ratio Lower Upper
91 100
106 29.9 24.2 36.2



#59
m/p-Xylene
Concen: 8.664 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.016 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 91 Resp: 497808
Ion Ratio Lower Upper
91 100
106 45.8 36.4 54.6

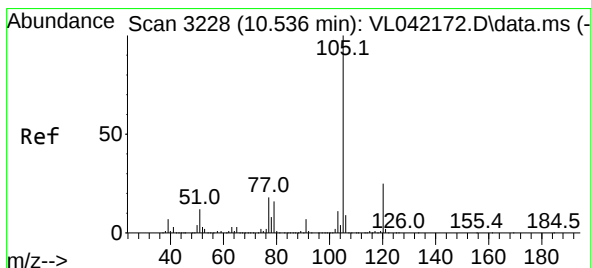
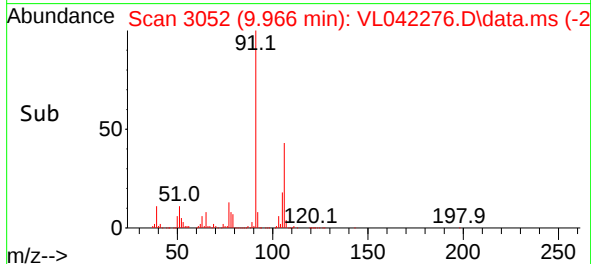
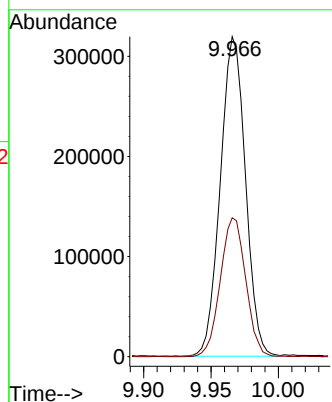
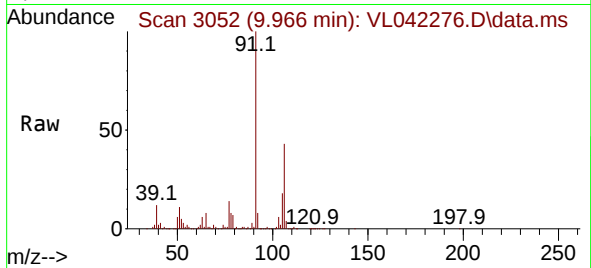




#60
o-Xylene
Concen: 7.197 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

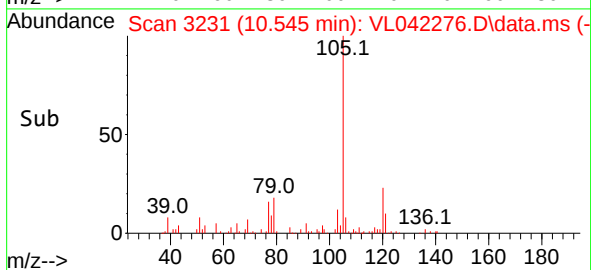
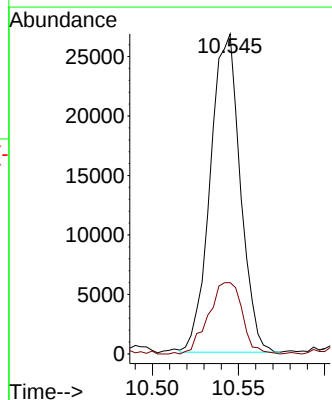
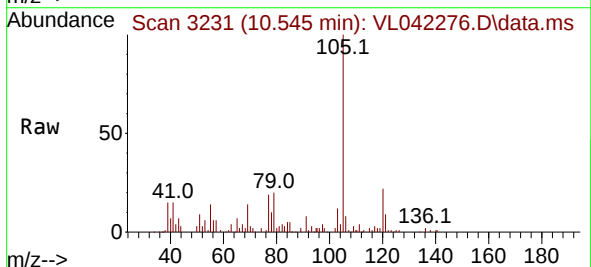
Instrument : MSVOA_1
ClientSampleId : SSSG-B2-1-04022025DUP

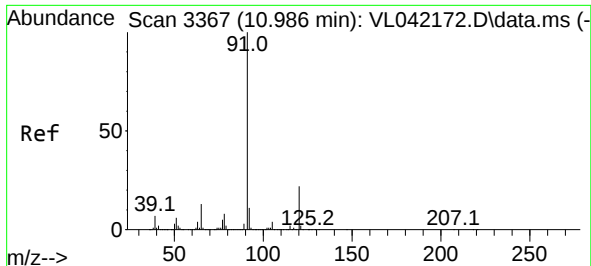
Tgt Ion: 91 Resp: 414511
Ion Ratio Lower Upper
91 100
106 44.0 20.8 62.5



#62
Isopropylbenzene
Concen: 0.376 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion: 105 Resp: 32420
Ion Ratio Lower Upper
105 100
120 25.5 19.9 29.9

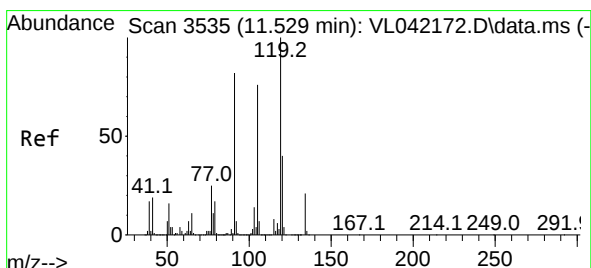
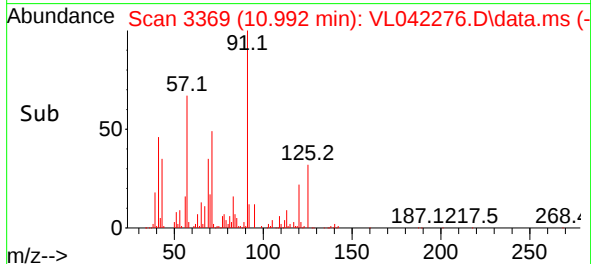
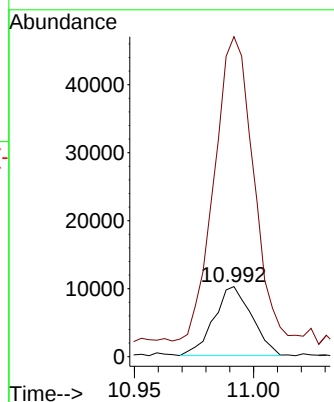
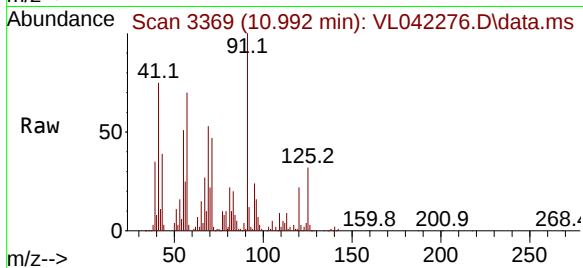




#64
n-propylbenzene
Concen: 0.505 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

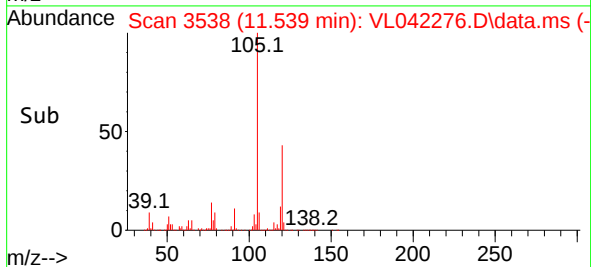
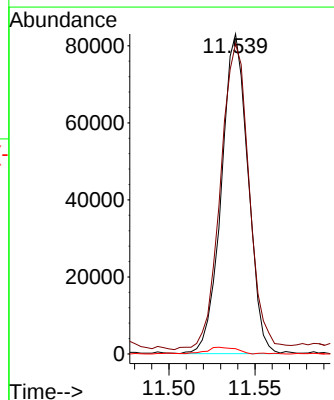
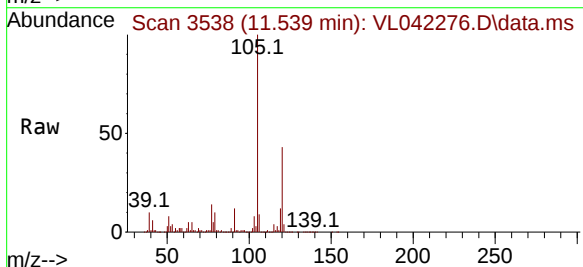
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-1-04022025DUP

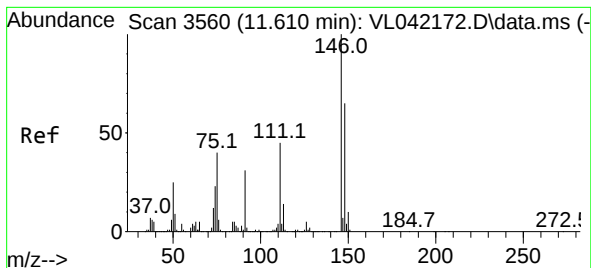
Tgt Ion:120 Resp: 11198
Ion Ratio Lower Upper
120 100
91 543.0 376.9 565.3



#65
tert-Butylbenzene
Concen: 1.121 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.009 min
Lab File: VL042276.D
Acq: 08 Apr 2025 23:13

Tgt Ion:119 Resp: 89265
Ion Ratio Lower Upper
119 100
91 100.8 66.0 99.0#
134 2.8 16.7 25.1#





#66

Benzyl Chloride

Concen: 10.619 ppbv

RT: 11.539 min Scan# 31

Delta R.T. -0.072 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

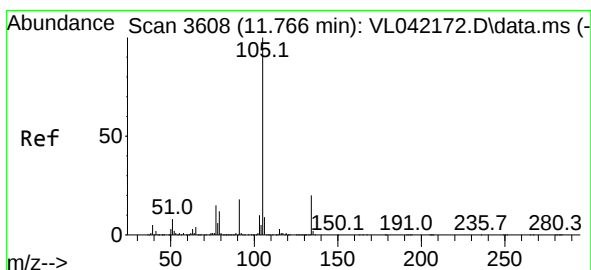
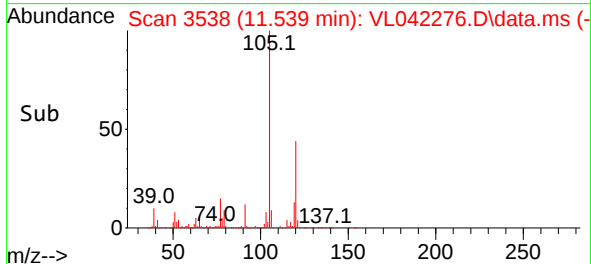
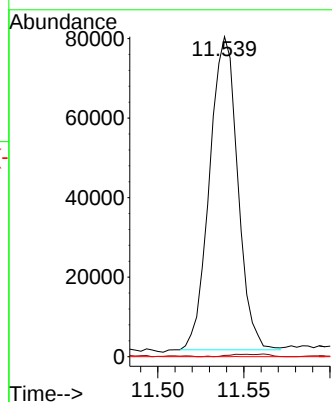
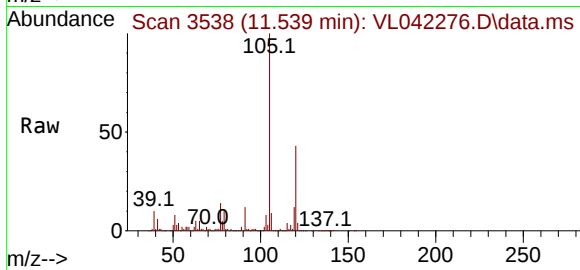
Tgt Ion: 91 Resp: 89753

Ion Ratio Lower Upper

91 100

126 1.1 13.8 20.6#

128 0.1 4.5 6.7#



#67

sec-Butylbenzene

Concen: 0.293 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. 0.006 min

Lab File: VL042276.D

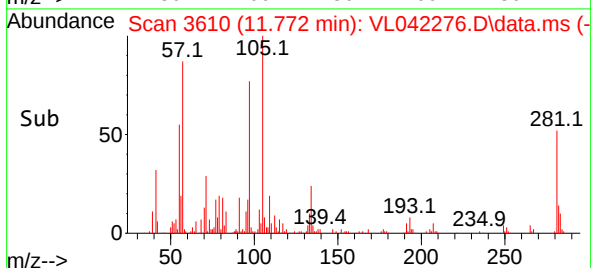
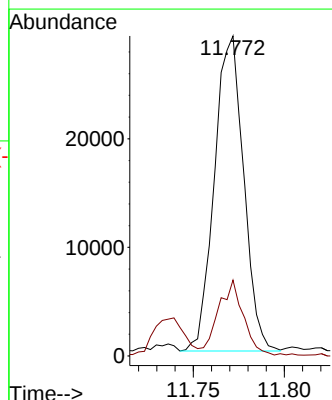
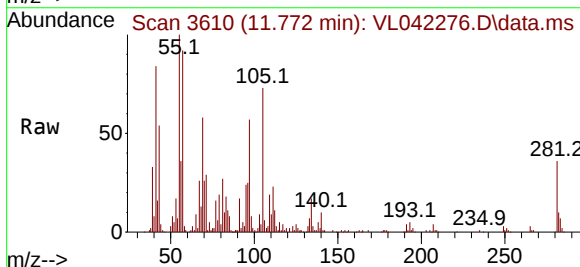
Acq: 08 Apr 2025 23:13

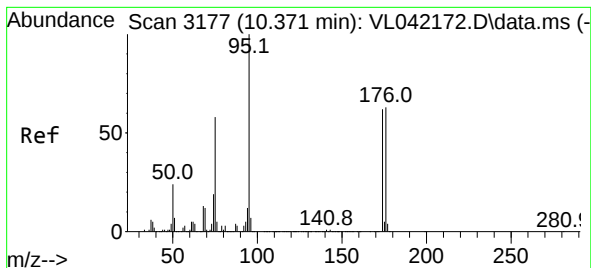
Tgt Ion: 105 Resp: 32418

Ion Ratio Lower Upper

105 100

134 34.7 15.5 23.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.522 ppbv

RT: 10.377 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

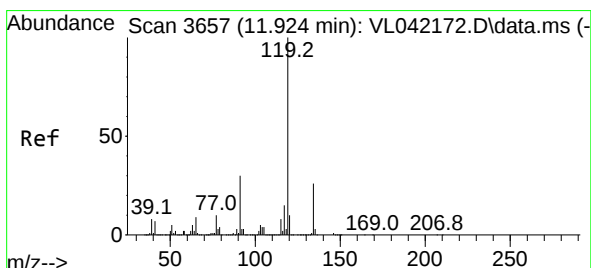
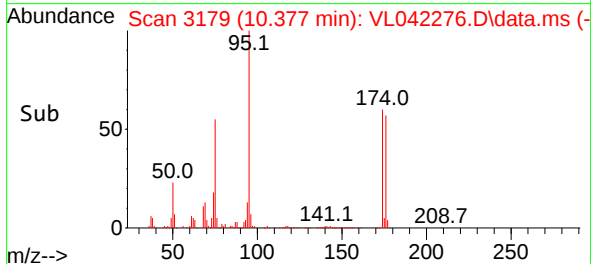
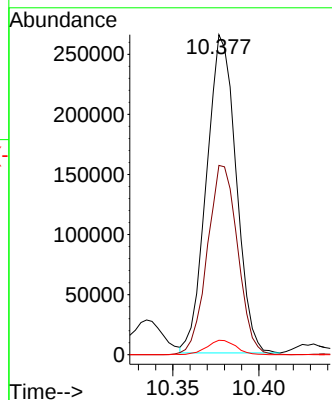
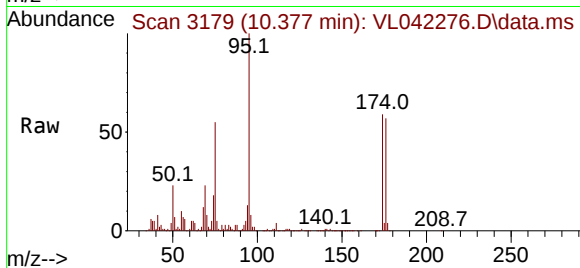
Tgt Ion: 95 Resp: 316771

Ion Ratio Lower Upper

95 100

174 61.0 50.6 76.0

175 4.5 3.8 5.6



#69

p-Isopropyltoluene

Concen: 0.384 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.003 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

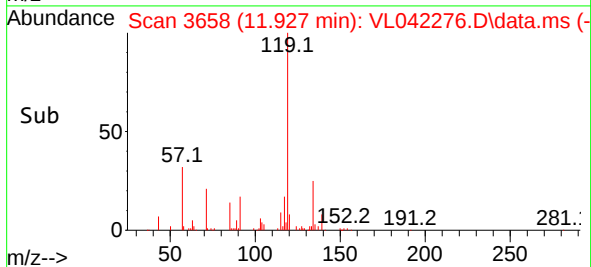
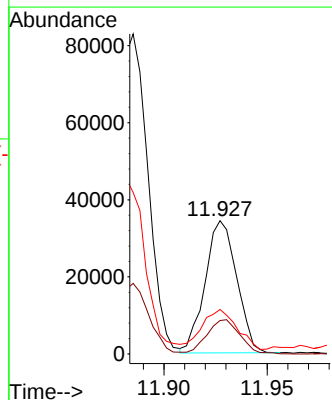
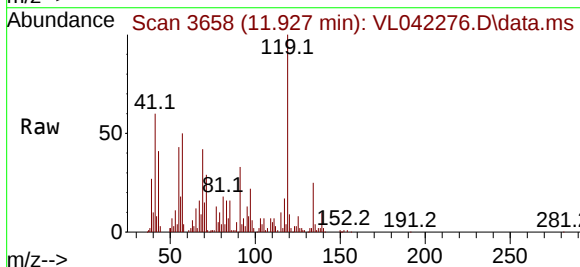
Tgt Ion: 119 Resp: 36608

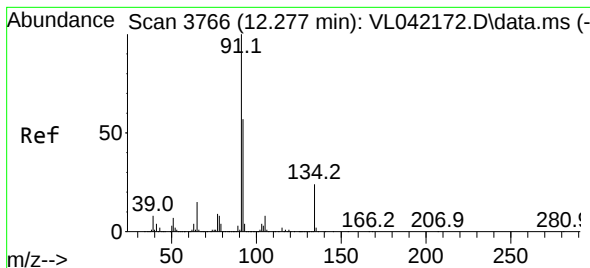
Ion Ratio Lower Upper

119 100

134 27.0 20.4 30.6

91 29.5 23.7 35.5





#70

n-Butylbenzene

Concen: 0.246 ppbv

RT: 12.296 min Scan# 31

Delta R.T. 0.019 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

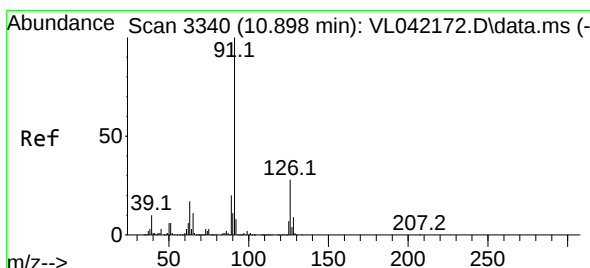
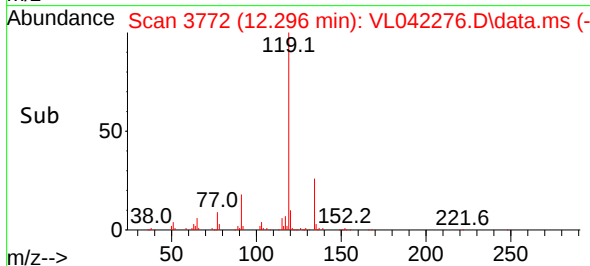
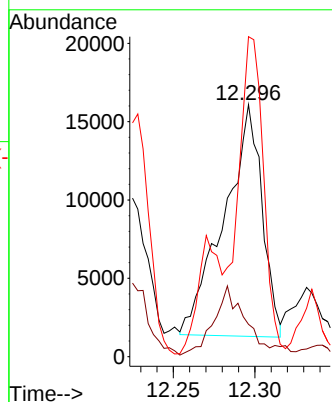
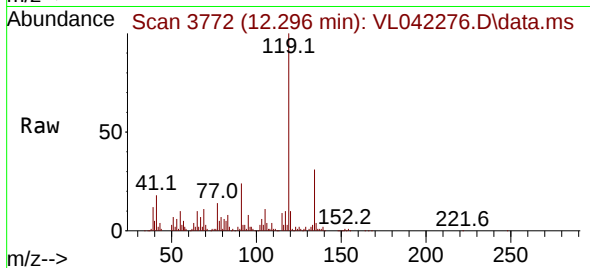
Tgt Ion: 91 Resp: 23950

Ion Ratio Lower Upper

91 100

92 25.5 44.9 67.3#

134 123.7 19.2 28.8#



#71

2-Chlorotoluene

Concen: 0.810 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.307 min

Lab File: VL042276.D

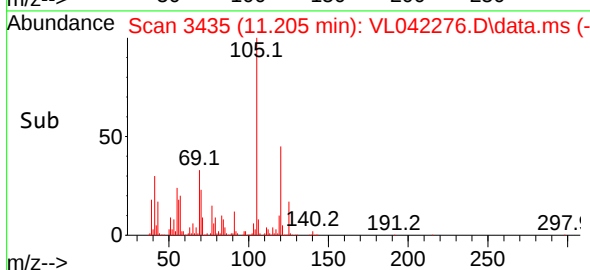
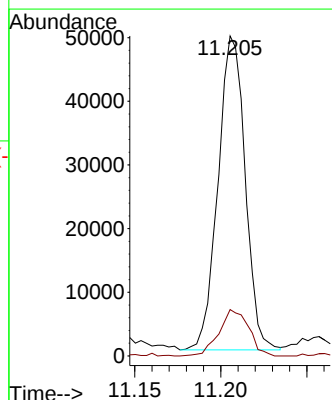
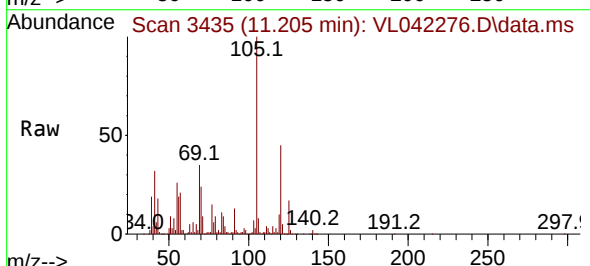
Acq: 08 Apr 2025 23:13

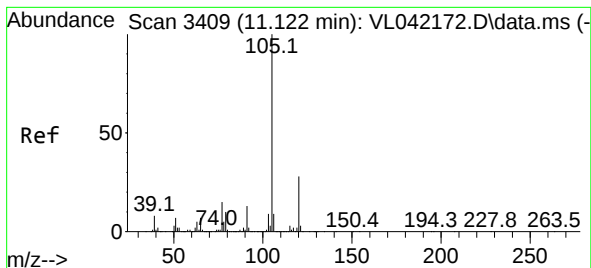
Tgt Ion: 91 Resp: 54171

Ion Ratio Lower Upper

91 100

126 16.2 11.6 46.4





#72

4-Ethyltoluene

Concen: 2.507 ppbv

RT: 11.128 min Scan# 3409

Delta R.T. 0.006 min

Lab File: VL042276.D

Acq: 08 Apr 2025 23:13

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-1-04022025DUP

Tgt Ion:105 Resp: 179822

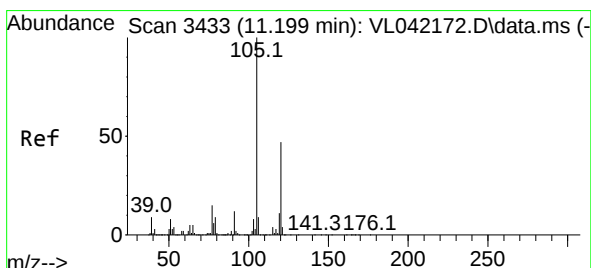
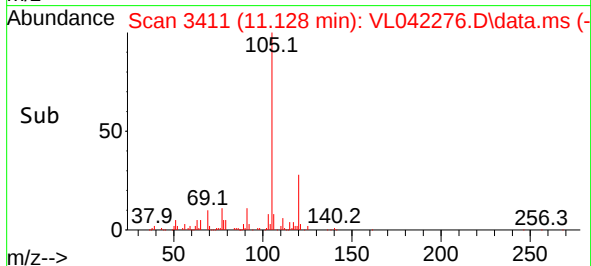
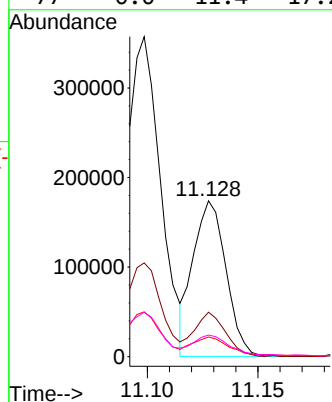
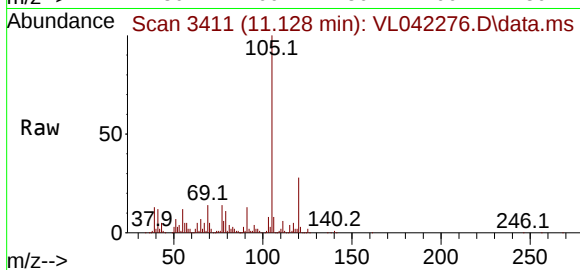
Ion Ratio Lower Upper

105 100

120 0.0 23.4 35.0#

91 0.0 10.3 15.5#

77 0.0 11.4 17.2#



#73

1,3,5-Trimethylbenzene

Concen: 6.977 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. 0.006 min

Lab File: VL042276.D

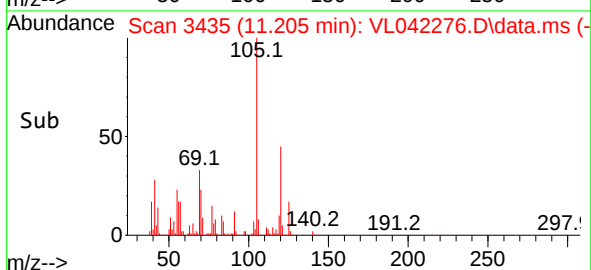
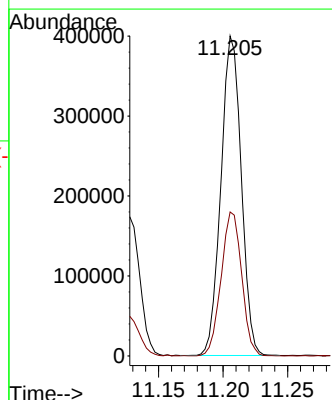
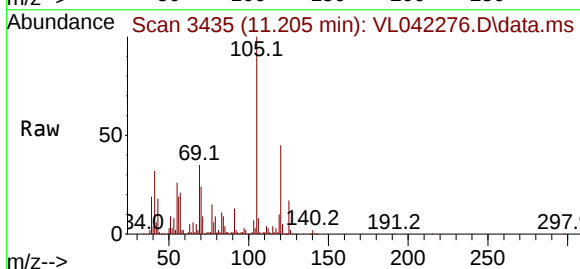
Acq: 08 Apr 2025 23:13

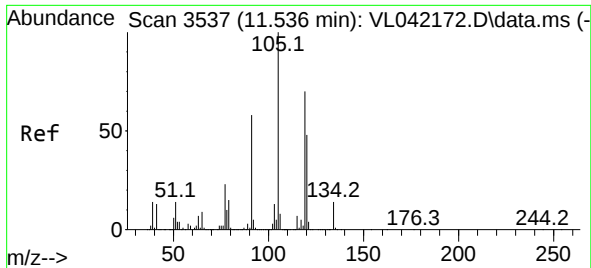
Tgt Ion:105 Resp: 436966

Ion Ratio Lower Upper

105 100

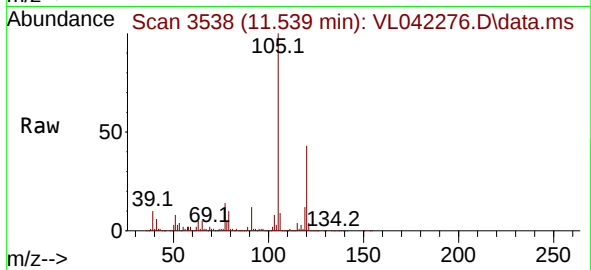
120 45.0 37.4 56.0





#74
 1,2,4-Trimethylbenzene
 Concen: 10.154 ppbv
 RT: 11.539 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VL042276.D
 Acq: 08 Apr 2025 23:13

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-1-04022025DUP



Tgt Ion:	105	Resp:	732665
Ion	Ratio	Lower	Upper
105	100		
120	42.6	38.6	58.0
91	11.7	46.2	69.2#
77	14.1	18.6	27.8#

