

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042277.D
 Acq On : 08 Apr 2025 23:44
 Operator : SY/MD
 Sample : Q1728-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

Quant Time: Apr 09 02:02:31 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)

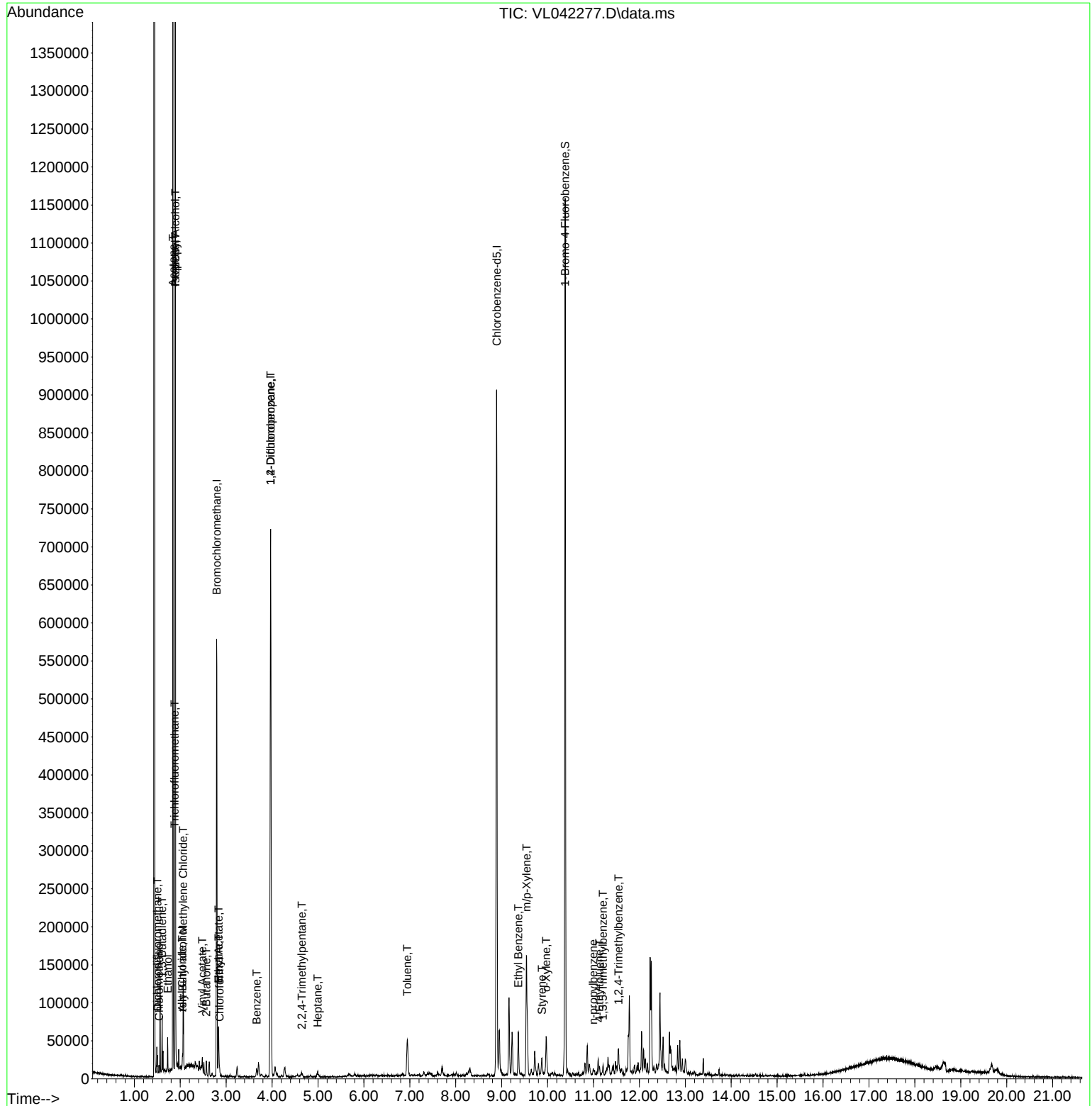
Internal Standards						
1) Bromochloromethane	2.793	49	164142	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	421001	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	366383	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	289703	9.629	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5920	0.244	ppbv	89
4) Chloromethane	1.534	50	2769	0.280	ppbv	95
9) Propene	1.890	41	101033	8.903	ppbv	90
10) Heptane	4.991	43	980	0.032	ppbv #	28
11) Trichlorofluoromethane	1.881	101	2451	0.104	ppbv	86
13) Ethanol	1.725	45	15149	14.122	ppbv	79
15) Acetone	1.839	43	611384	26.633	ppbv	96
16) 1,3-Butadiene	1.602	39	7569	0.675	ppbv #	22
17) tert-Butyl alcohol	2.049	59	6361	0.222	ppbv #	90
19) Isopropyl Alcohol	1.890	45	1073145	82.853	ppbv #	31
20) Methylene Chloride	2.065	84	17035	1.992	ppbv	93
21) Allyl Chloride	2.046	41	2171	0.134	ppbv #	23
23) Vinyl Acetate	2.479	43	5468	0.550	ppbv #	66
25) Ethyl Acetate	2.835	43	12361	0.207	ppbv #	89
26) Hexane	2.832	57	14226	0.618	ppbv #	38
29) Chloroform	2.855	83	3922	0.116	ppbv	84
34) 2-Butanone	2.567	43	12029	0.394	ppbv	100
36) Benzene	3.664	78	6732	0.161	ppbv #	89
39) 1,2-Dichloropropane	3.968	63	106225	6.989	ppbv #	22
44) 2,2,4-Trimethylpentane	4.648	57	2225	0.032	ppbv #	1
53) Toluene	6.943	91	35716	0.722	ppbv	97
58) Ethyl Benzene	9.364	91	30797	0.473	ppbv	92
59) m/p-Xylene	9.542	91	95378	1.835	ppbv	99
60) o-Xylene	9.969	91	22277	0.428	ppbv	96
61) Styrene	9.875	104	6538	0.254	ppbv	92
64) n-propylbenzene	10.995	120	690	0.034	ppbv	66
72) 4-Ethyltoluene	11.131	105	3486	0.054	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	2919	0.052	ppbv	95
74) 1,2,4-Trimethylbenzene	11.545	105	10923	0.167	ppbv #	66

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

```
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Operator  : SY/MD  
Sample    : Q1728-01 2X  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 1      Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

Quant Time: Apr 09 02:02:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

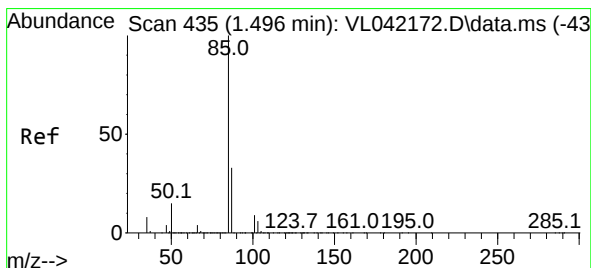
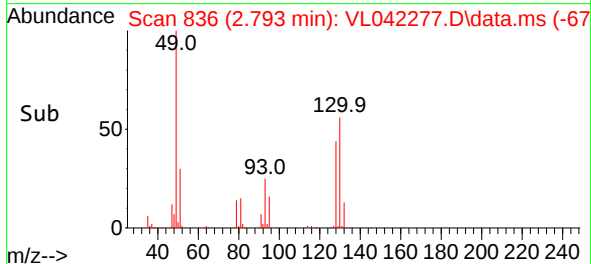
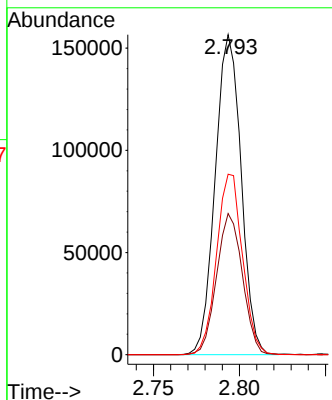
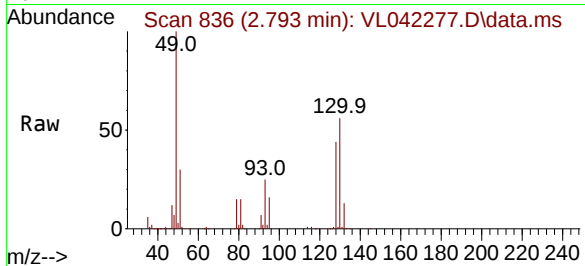




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 81
 Delta R.T. 0.009 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

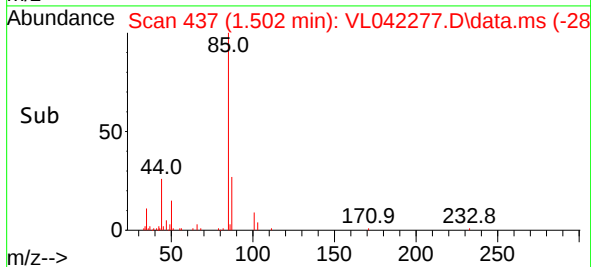
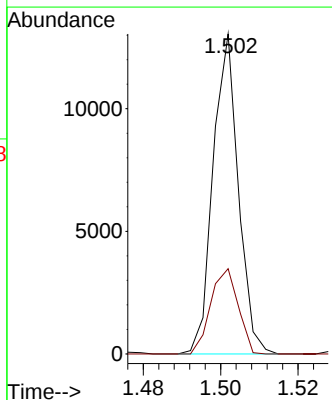
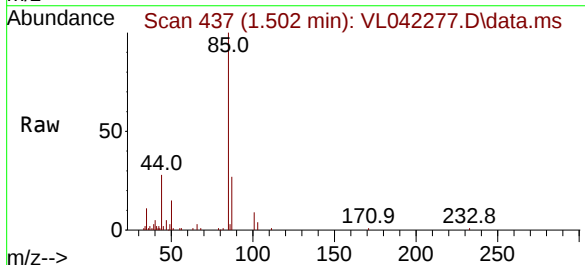
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-2-04012025

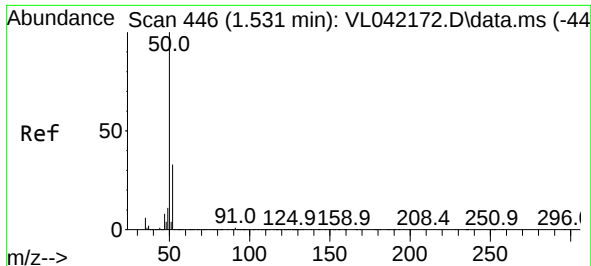
Tgt Ion: 49 Resp: 164142
 Ion Ratio Lower Upper
 49 100
 128 44.0 22.9 68.5
 130 56.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.244 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

Tgt Ion: 85 Resp: 5920
 Ion Ratio Lower Upper
 85 100
 87 26.7 26.1 39.1

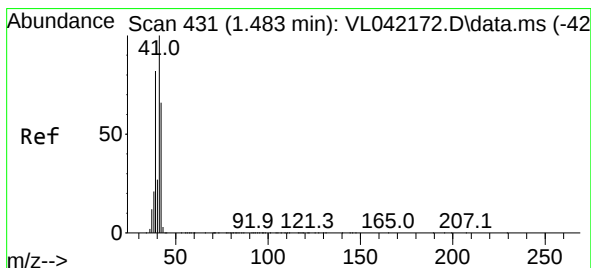
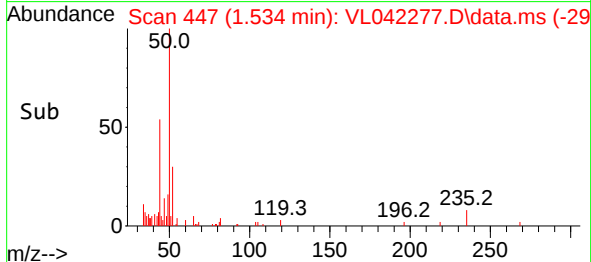
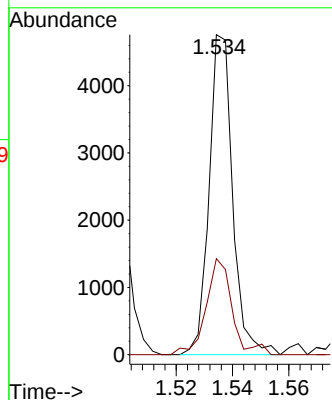
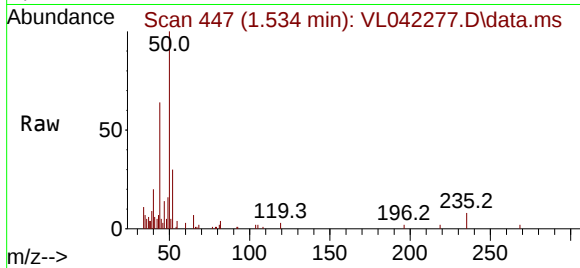




#4
Chloromethane
Concen: 0.280 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

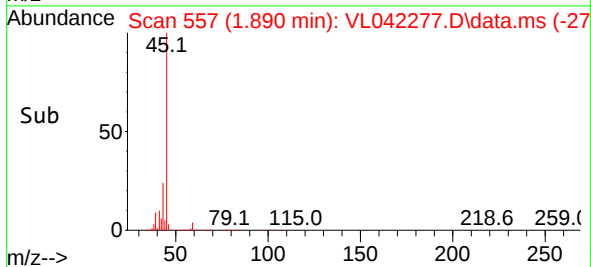
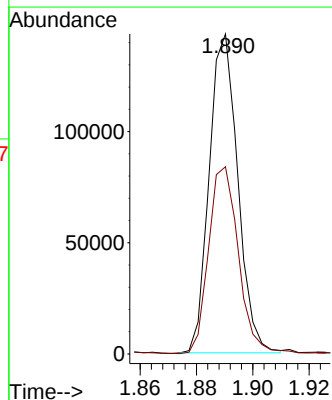
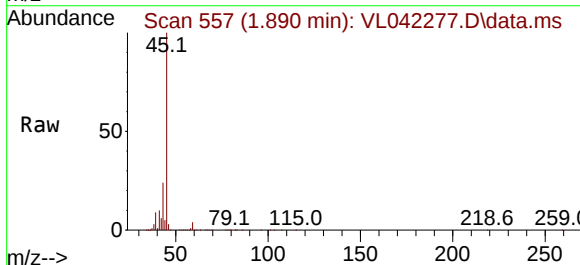
Instrument :
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ClientSampleId :
SSSG-B14-2-04012025

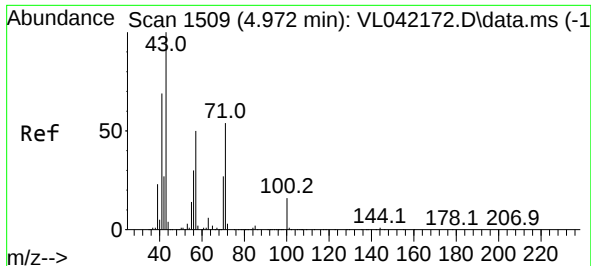
Tgt Ion: 50 Resp: 2769
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1



#9
Propene
Concen: 8.903 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.407 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 41 Resp: 101033
Ion Ratio Lower Upper
41 100
42 61.0 55.4 83.2

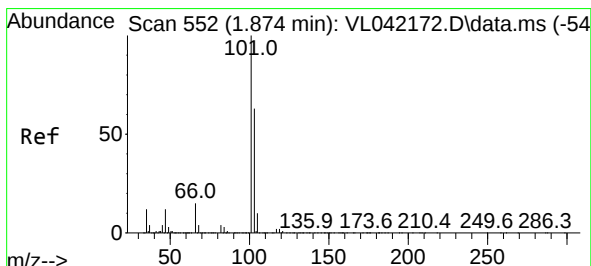
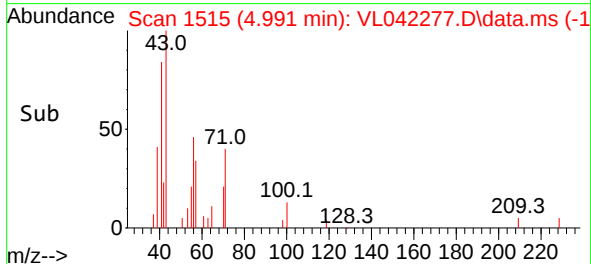
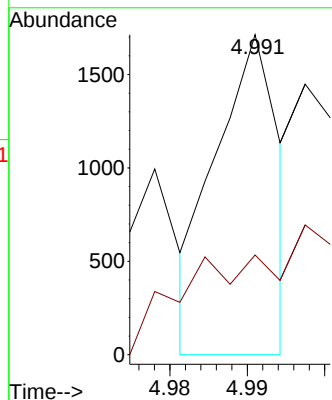
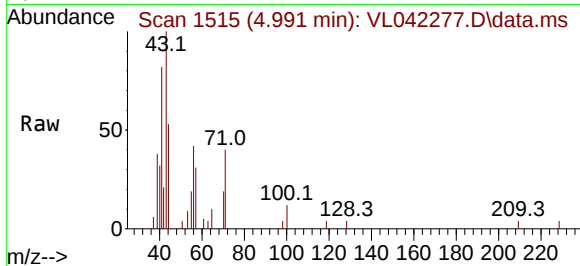




#10
Heptane
Concen: 0.032 ppbv
RT: 4.991 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

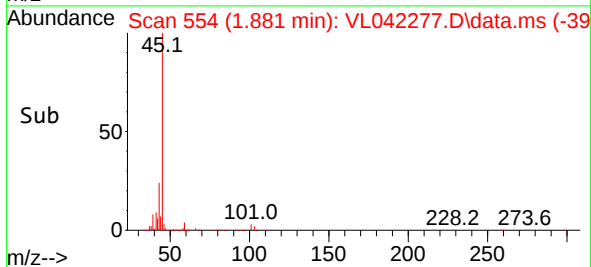
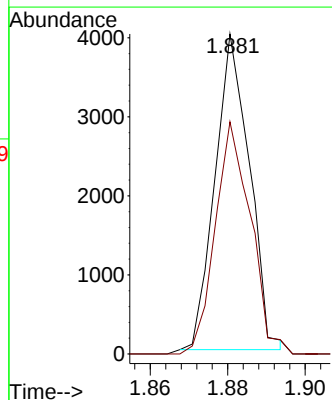
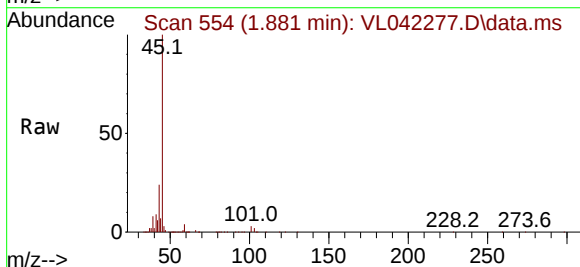
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

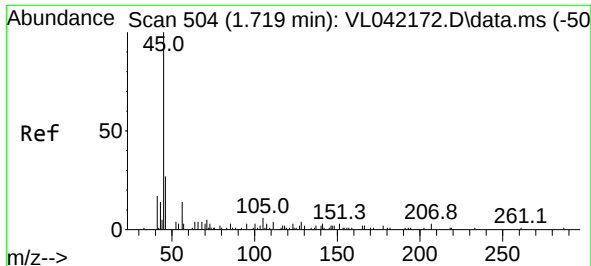
Tgt Ion: 43 Resp: 980
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.104 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion:101 Resp: 2451
Ion Ratio Lower Upper
101 100
103 73.5 50.2 75.2

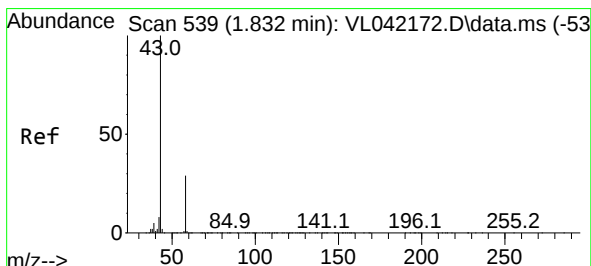
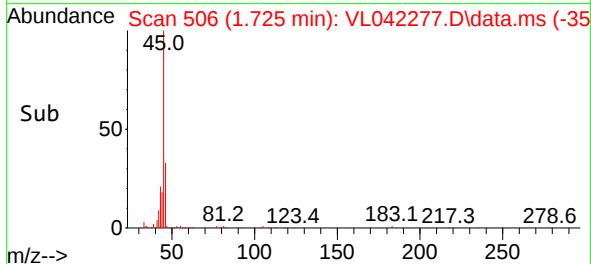
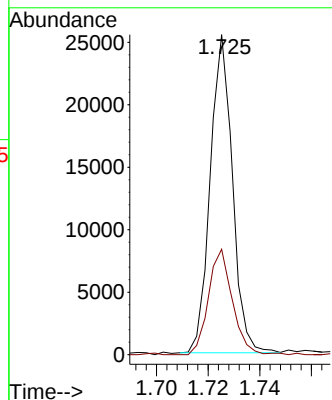
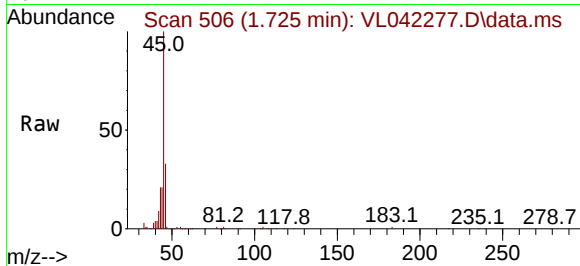




#13
 Ethanol
 Concen: 14.122 ppbv
 RT: 1.725 min Scan# 504
 Delta R.T. 0.006 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

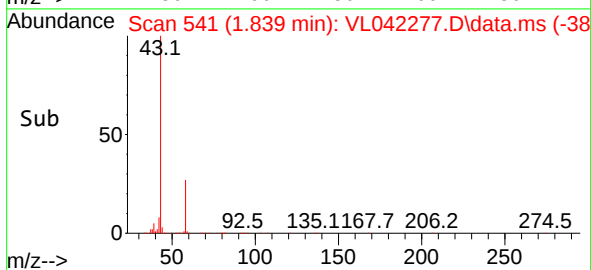
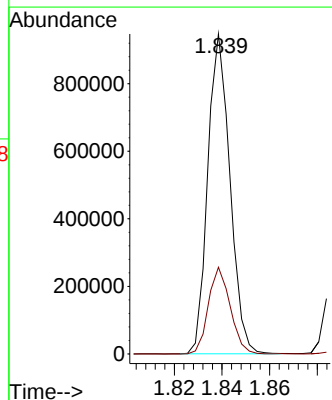
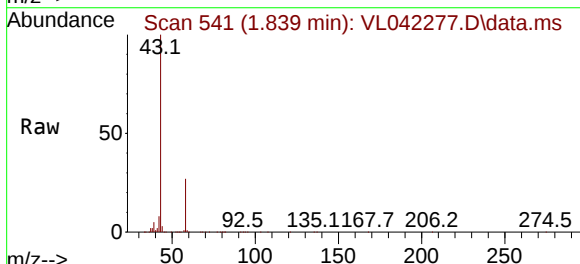
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B14-2-04012025

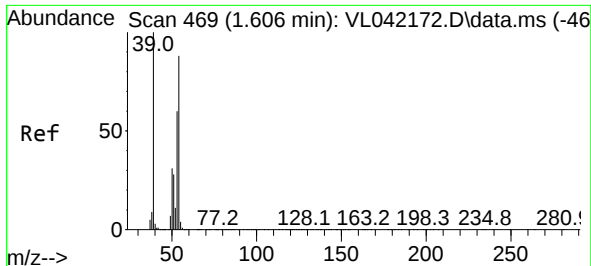
Tgt Ion: 45 Resp: 15149
 Ion Ratio Lower Upper
 45 100
 46 36.3 20.2 80.8



#15
 Acetone
 Concen: 26.633 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.006 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

Tgt Ion: 43 Resp: 611384
 Ion Ratio Lower Upper
 43 100
 58 26.8 23.2 34.8





#16

1,3-Butadiene

Concen: 0.675 ppbv

RT: 1.602 min Scan# 41

Delta R.T. -0.004 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

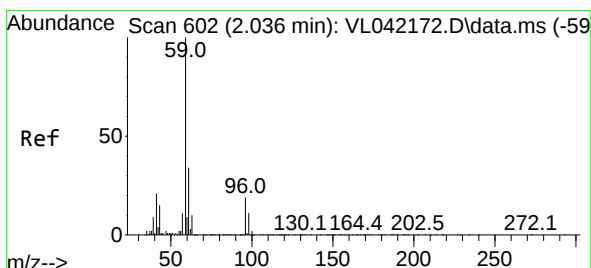
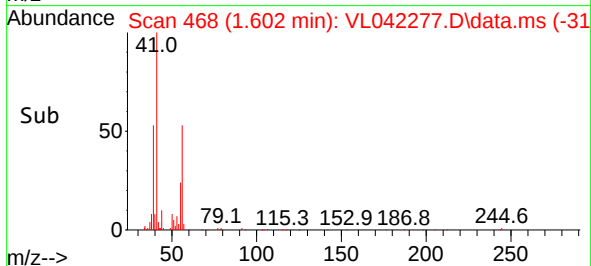
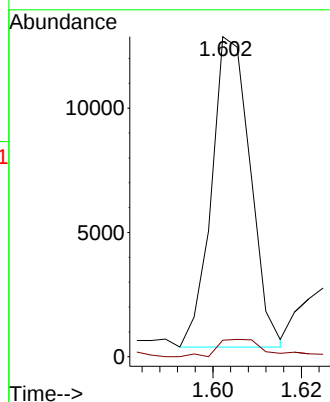
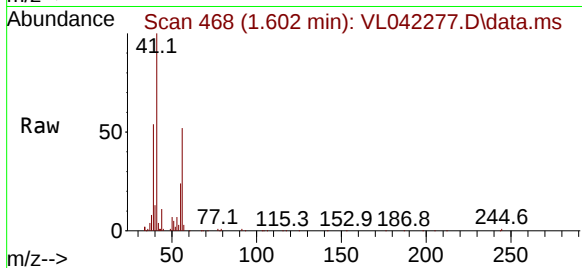
SSSG-B14-2-04012025

Tgt Ion: 39 Resp: 7569

Ion Ratio Lower Upper

39 100

54 8.7 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.222 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.013 min

Lab File: VL042277.D

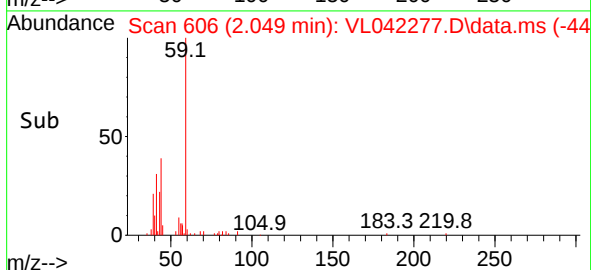
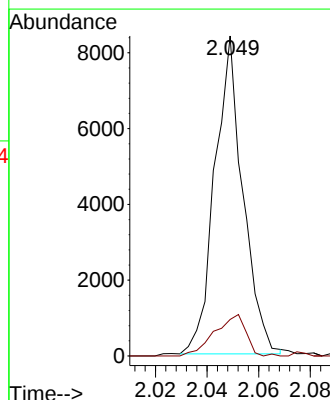
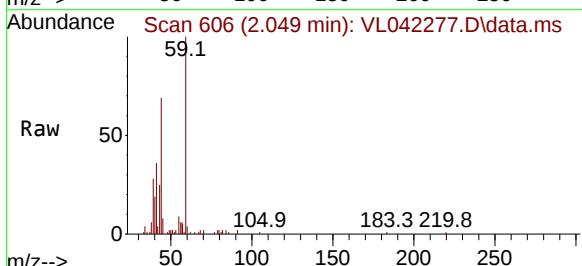
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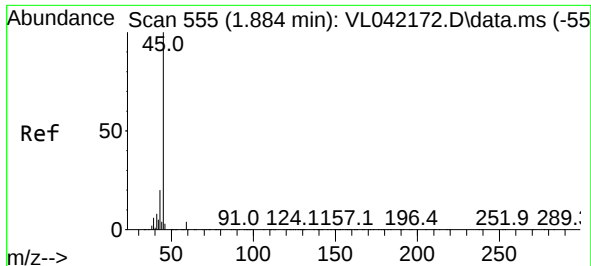
Tgt Ion: 59 Resp: 6361

Ion Ratio Lower Upper

59 100

57 15.1 8.9 13.3#





#19

Isopropyl Alcohol

Concen: 82.853 ppbv

RT: 1.890 min Scan# 51

Delta R.T. 0.006 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

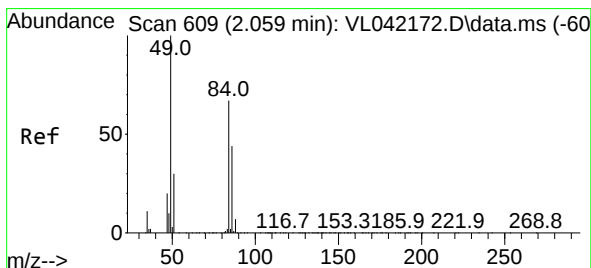
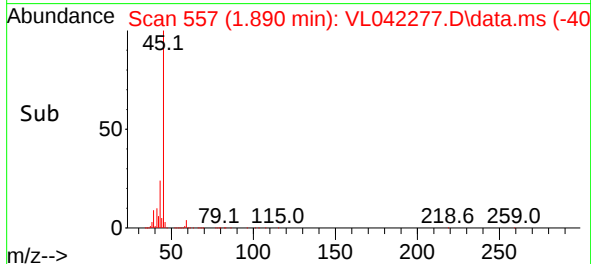
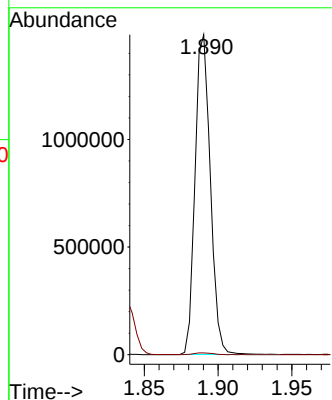
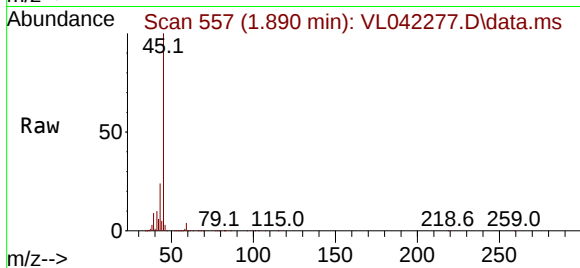
SSSG-B14-2-04012025

Tgt Ion: 45 Resp: 1073145

Ion Ratio Lower Upper

45 100

58 0.7 36.9 55.3#



#20

Methylene Chloride

Concen: 1.992 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion: 84 Resp: 17035

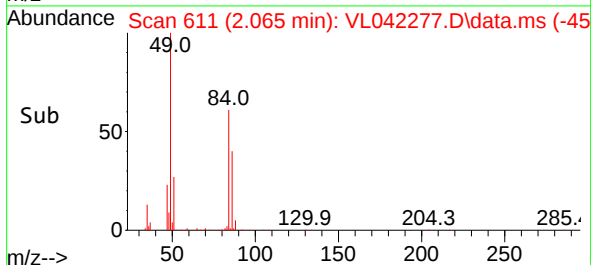
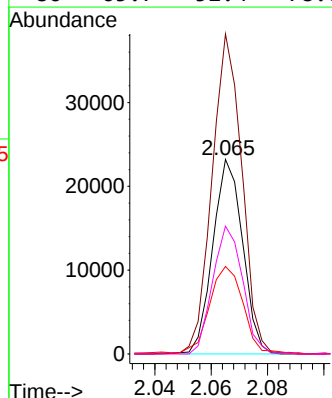
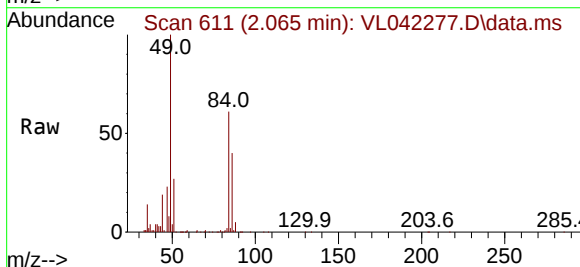
Ion Ratio Lower Upper

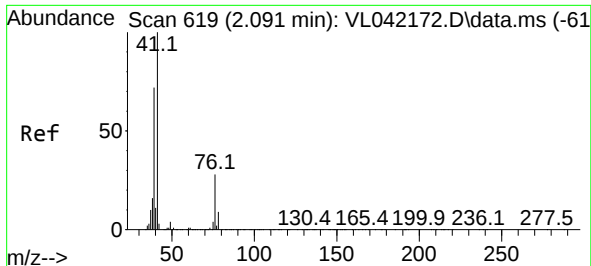
84 100

49 163.9 120.2 180.4

51 44.4 37.4 56.0

86 65.7 52.4 78.6

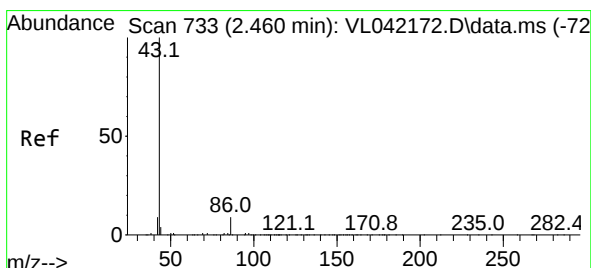
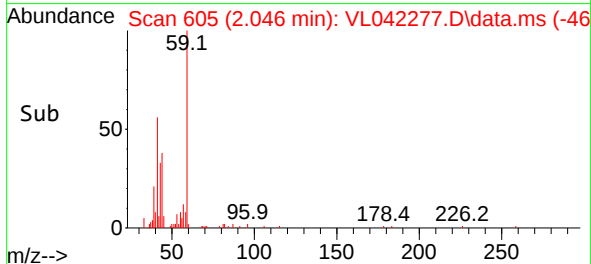
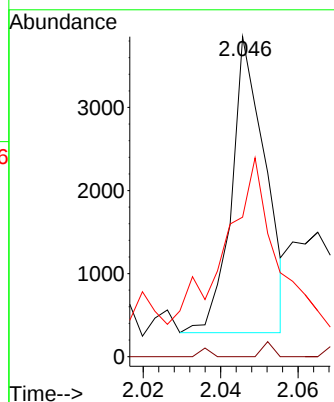
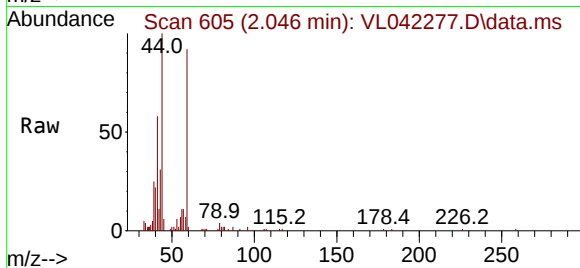




#21
 Allyl Chloride
 Concen: 0.134 ppbv
 RT: 2.046 min Scan# 619
 Delta R.T. -0.046 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

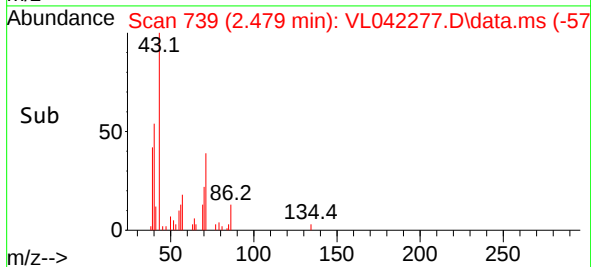
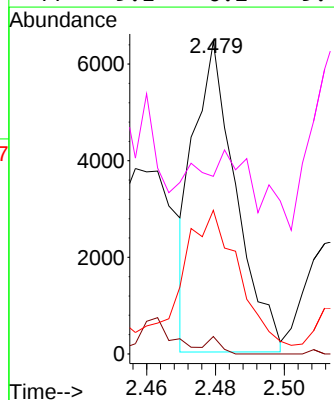
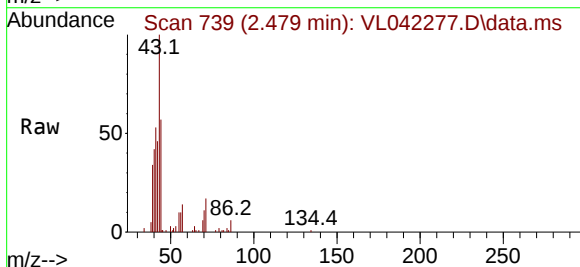
Instrument :
 MSVOA_1
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 SSSG-B14-2-04012025

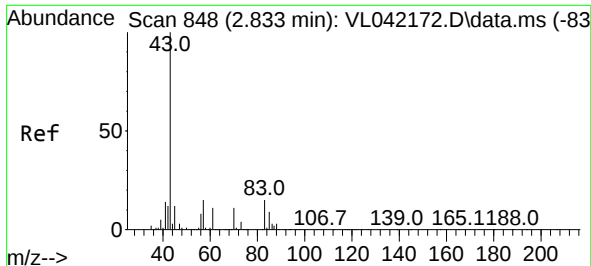
Tgt Ion: 41 Resp: 2171
 Ion Ratio Lower Upper
 41 100
 76 3.6 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.550 ppbv
 RT: 2.479 min Scan# 739
 Delta R.T. 0.019 min
 Lab File: VL042277.D
 Acq: 08 Apr 2025 23:44

Tgt Ion: 43 Resp: 5468
 Ion Ratio Lower Upper
 43 100
 86 5.8 5.5 8.3
 42 39.6 8.6 13.0#
 44 9.1 6.2 9.4





#25

Ethyl Acetate

Concen: 0.207 ppbv

RT: 2.835 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

Tgt Ion: 43 Resp: 12361

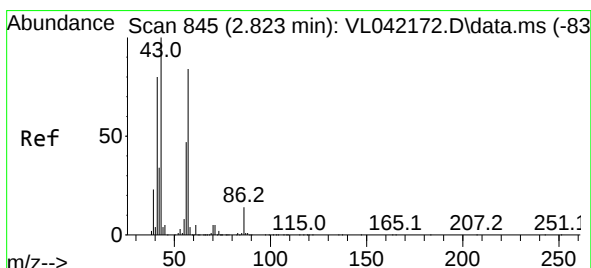
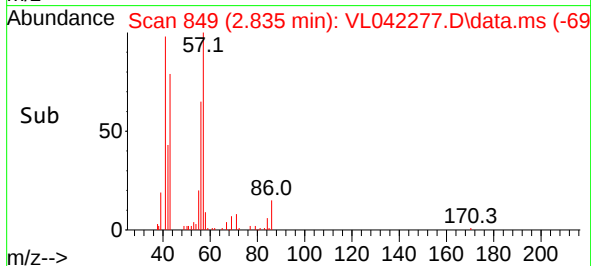
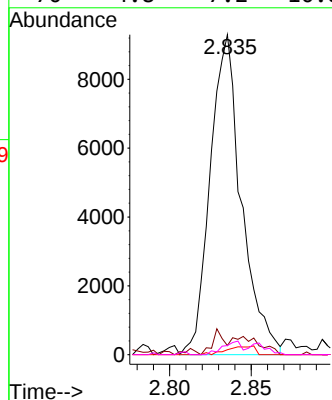
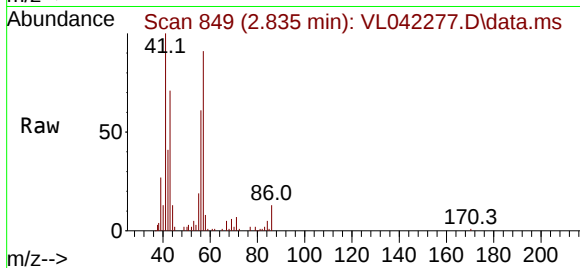
Ion Ratio Lower Upper

43 100

45 8.6 8.2 12.2

61 2.3 7.3 10.9#

70 4.8 7.2 10.8#



#26

Hexane

Concen: 0.618 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.009 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Tgt Ion: 57 Resp: 14226

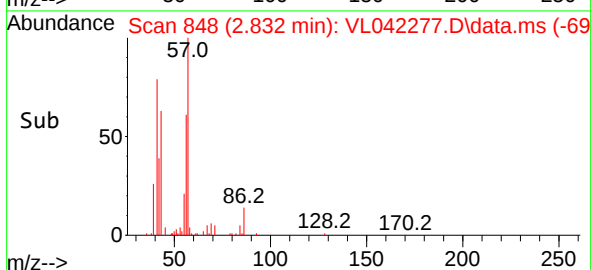
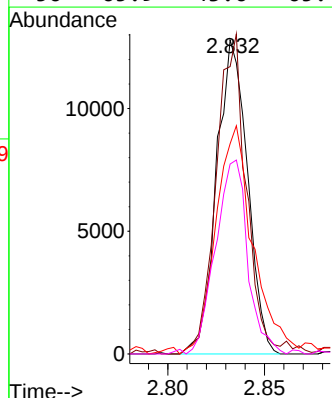
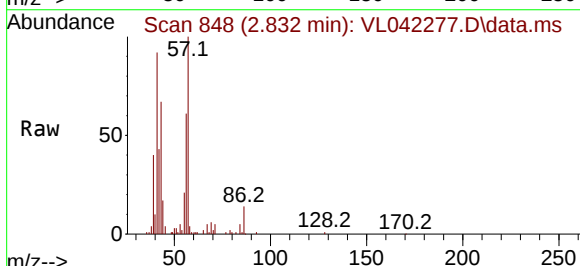
Ion Ratio Lower Upper

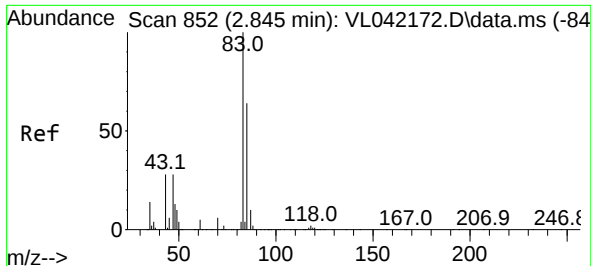
57 100

41 100.1 76.6 114.8

43 92.9 207.8 311.8#

56 65.9 43.6 65.4#





#29

Chloroform

Concen: 0.116 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.009 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

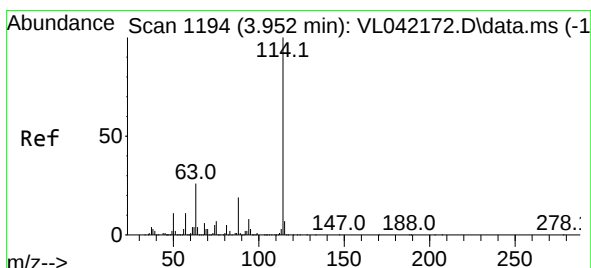
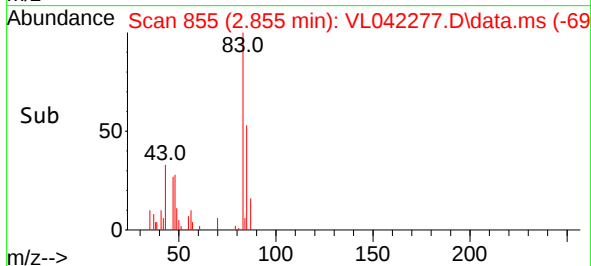
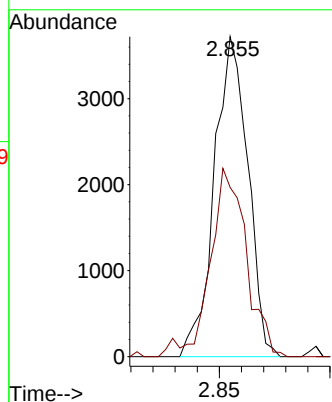
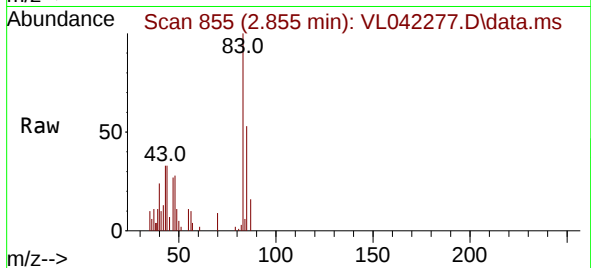
SSSG-B14-2-04012025

Tgt Ion: 83 Resp: 3922

Ion Ratio Lower Upper

83 100

85 51.5 51.4 77.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

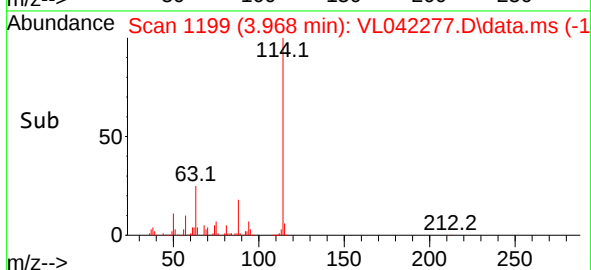
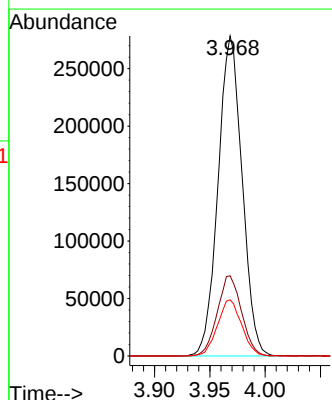
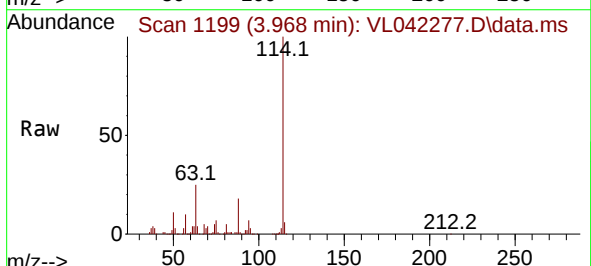
Tgt Ion: 114 Resp: 421001

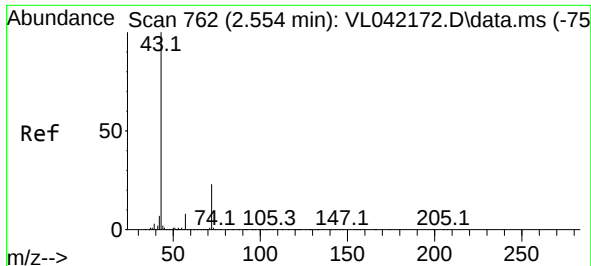
Ion Ratio Lower Upper

114 100

63 25.3 20.7 31.1

88 17.6 15.0 22.4

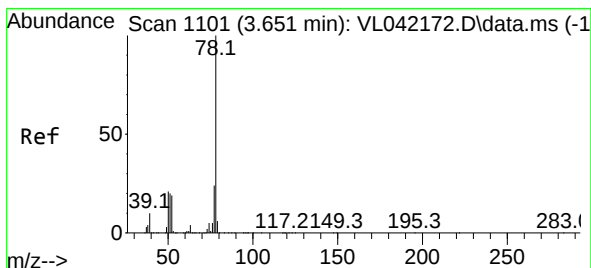
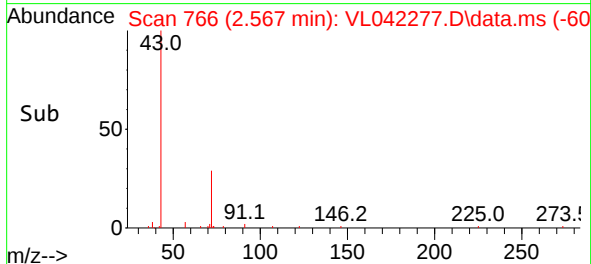
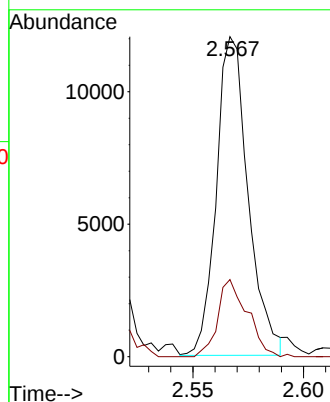
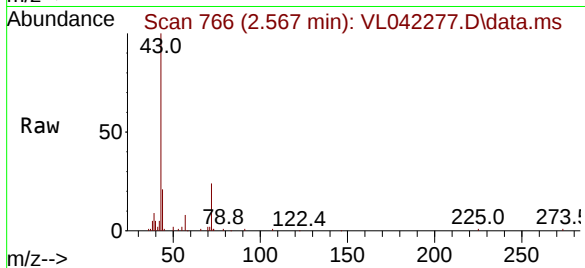




#34
2-Butanone
Concen: 0.394 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

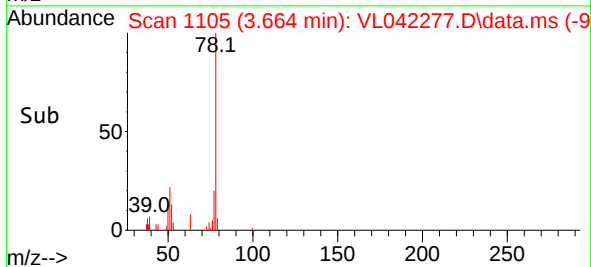
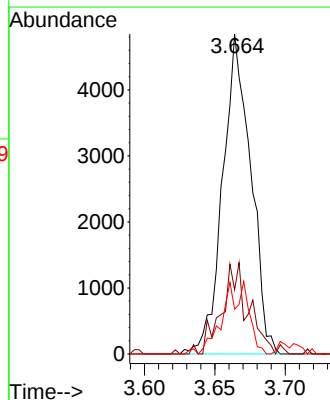
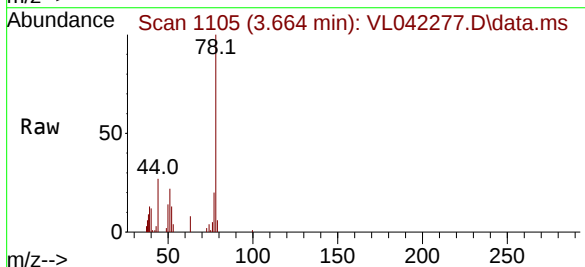
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

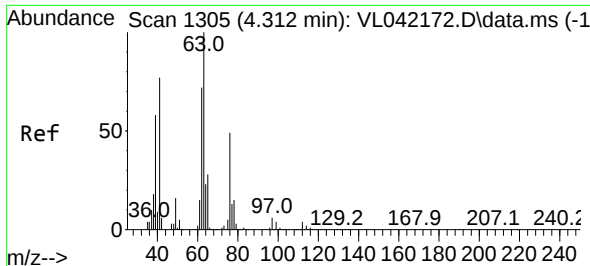
Tgt Ion: 43 Resp: 12029
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2



#36
Benzene
Concen: 0.161 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 78 Resp: 6732
Ion Ratio Lower Upper
78 100
77 20.1 19.1 28.7
50 14.0 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 6.989 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

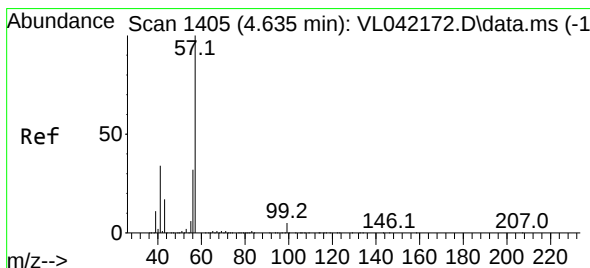
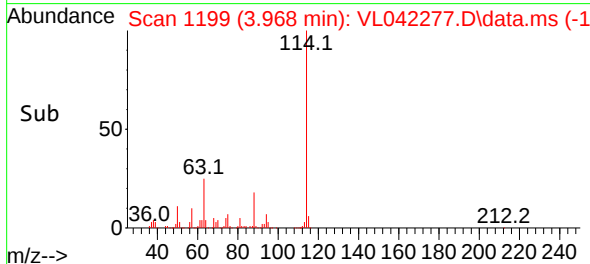
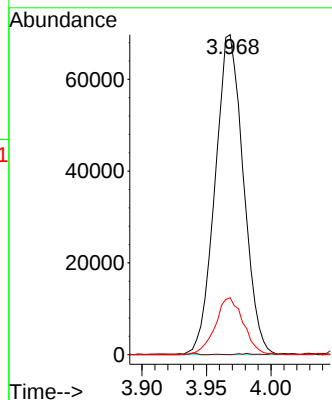
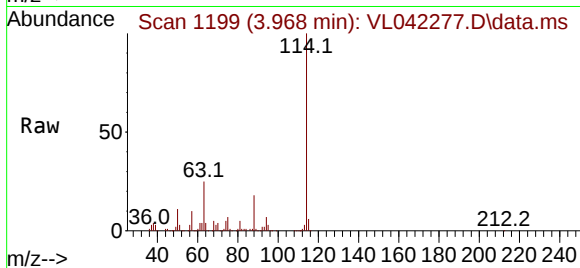
Tgt Ion: 63 Resp: 106225

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.8 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.013 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

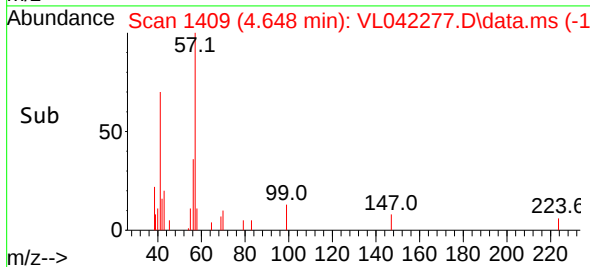
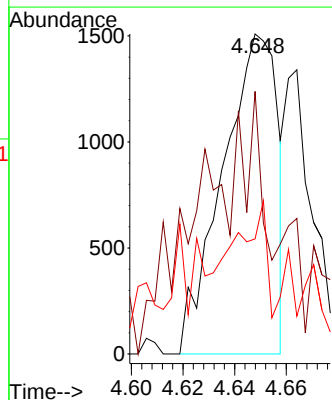
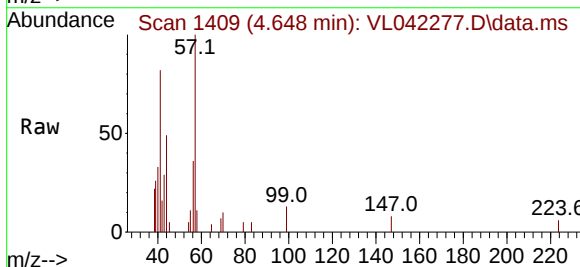
Tgt Ion: 57 Resp: 2225

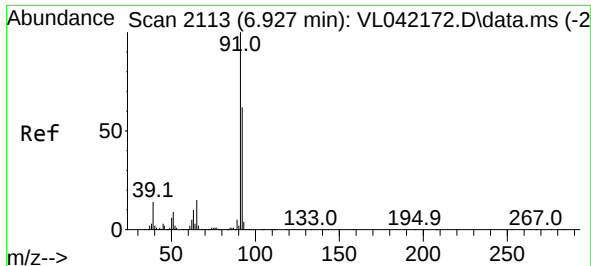
Ion Ratio Lower Upper

57 100

41 118.2 26.8 40.2#

56 84.4 25.6 38.4#

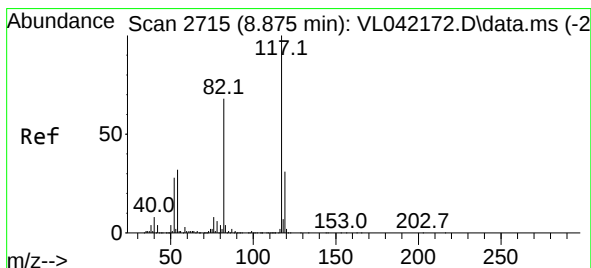
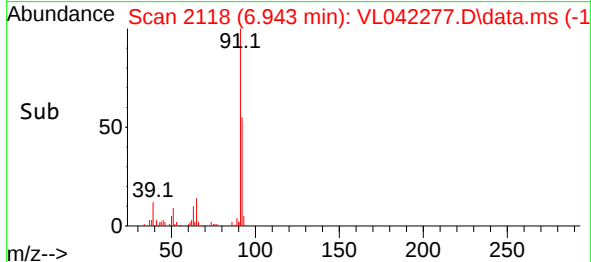
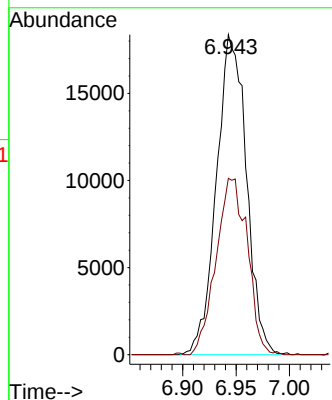
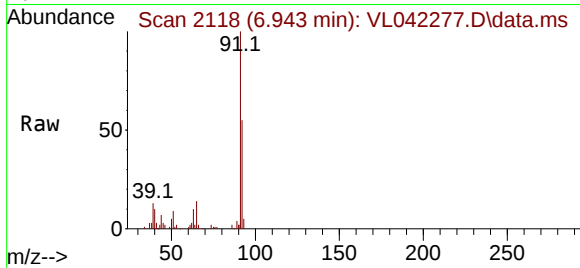




#53
Toluene
Concen: 0.722 ppbv
RT: 6.943 min Scan# 2113
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

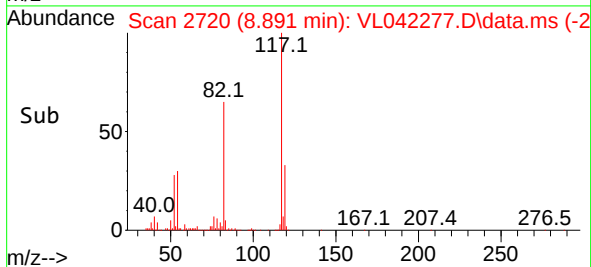
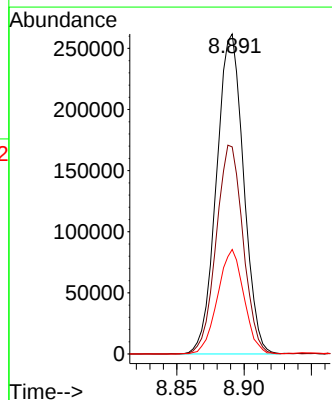
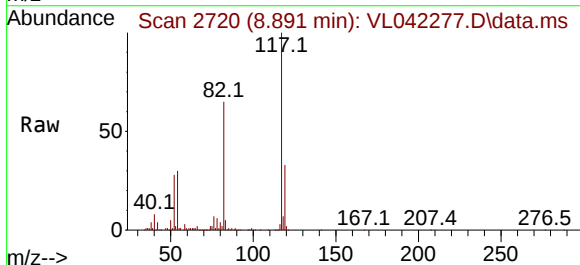
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

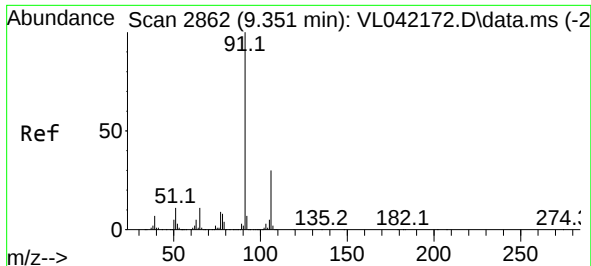
Tgt Ion: 91 Resp: 35716
Ion Ratio Lower Upper
91 100
92 57.9 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 117 Resp: 366383
Ion Ratio Lower Upper
117 100
82 64.9 55.8 83.6
119 31.8 25.5 38.3

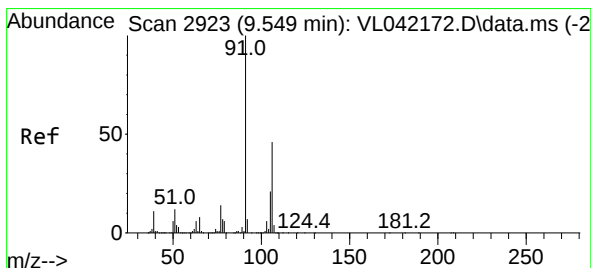
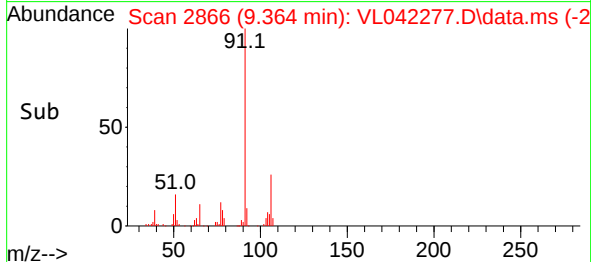
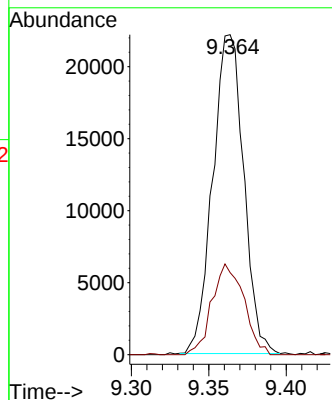
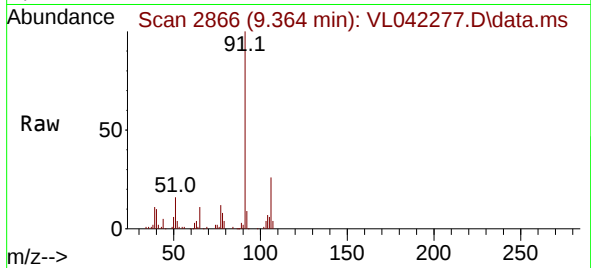




#58
Ethyl Benzene
Concen: 0.473 ppbv
RT: 9.364 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

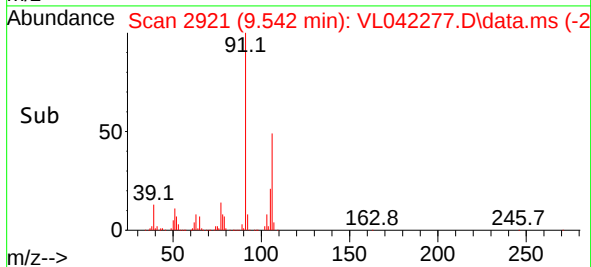
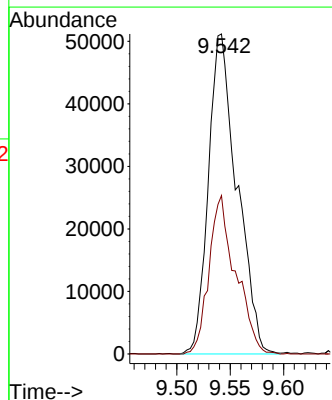
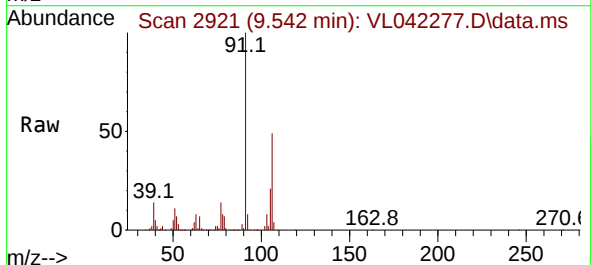
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

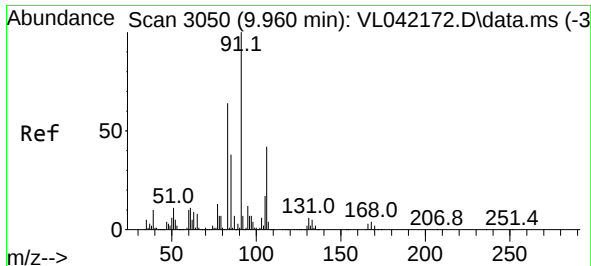
Tgt Ion: 91 Resp: 30797
Ion Ratio Lower Upper
91 100
106 25.7 24.2 36.2



#59
m/p-Xylene
Concen: 1.835 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.007 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 91 Resp: 95378
Ion Ratio Lower Upper
91 100
106 46.1 36.4 54.6

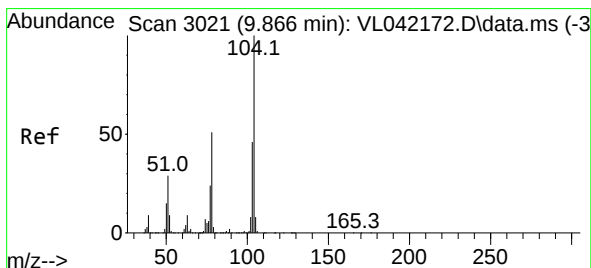
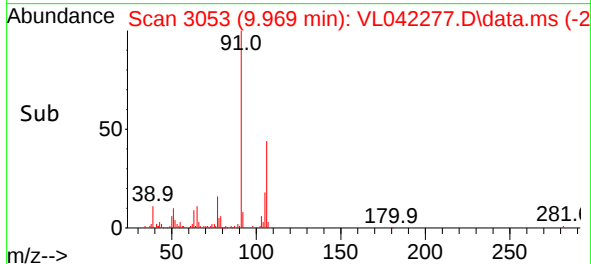
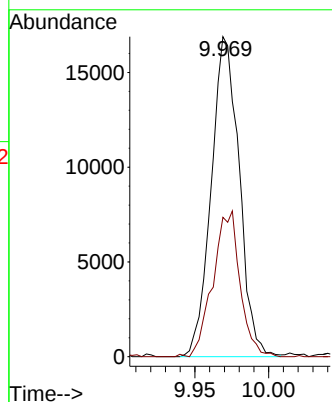
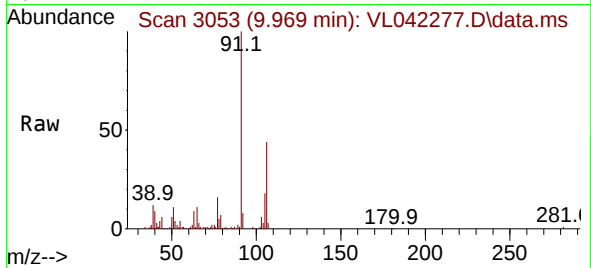




#60
o-Xylene
Concen: 0.428 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

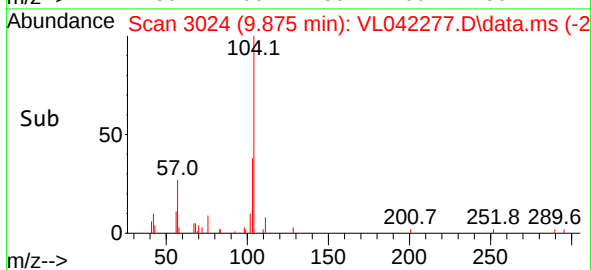
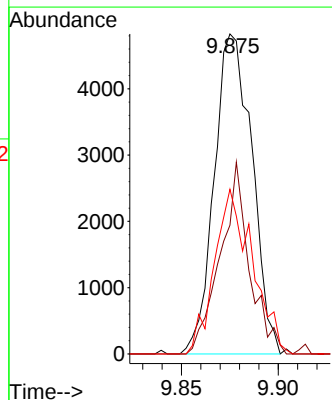
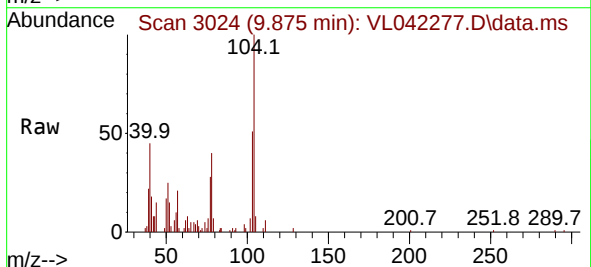
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

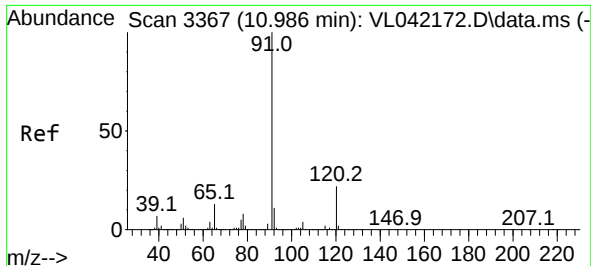
Tgt Ion: 91 Resp: 22277
Ion Ratio Lower Upper
91 100
106 44.2 20.8 62.5



#61
Styrene
Concen: 0.254 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 104 Resp: 6538
Ion Ratio Lower Upper
104 100
78 46.9 41.8 62.6
103 51.9 37.0 55.4

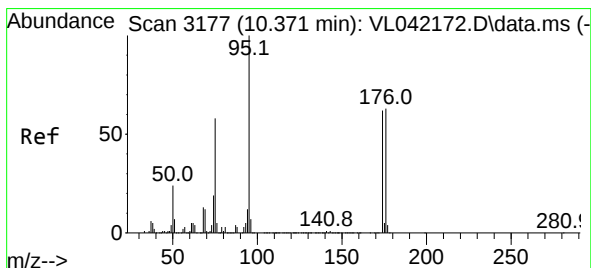
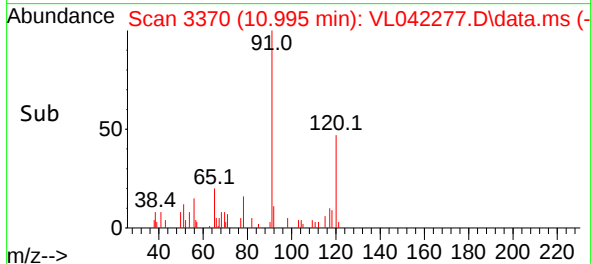
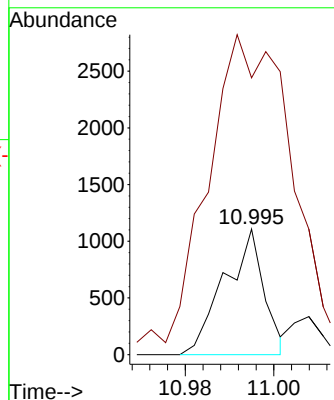
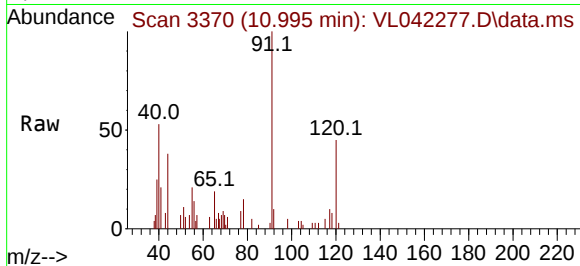




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 10.995 min Scan# 3180
Delta R.T. 0.009 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

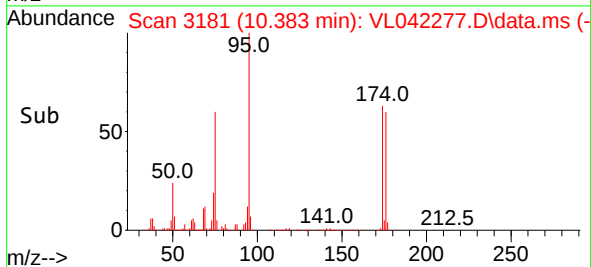
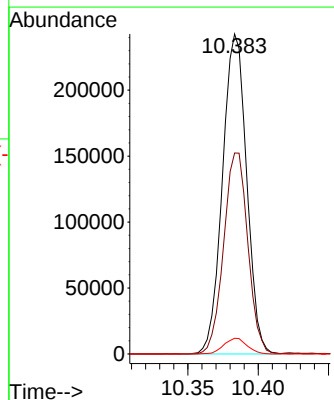
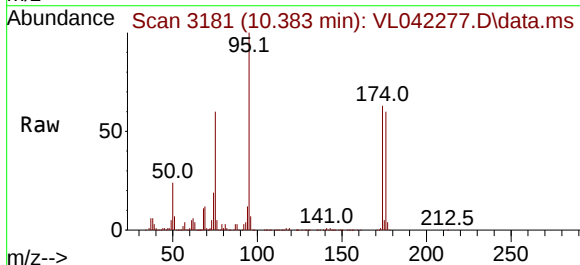
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025

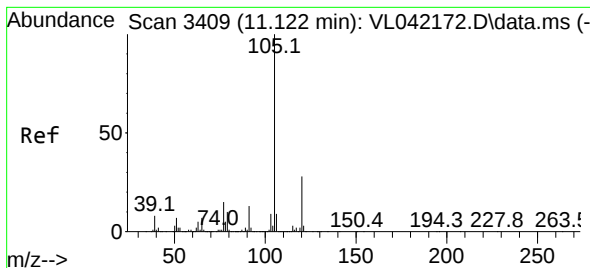
Tgt Ion:120 Resp: 690
Ion Ratio Lower Upper
120 100
91 560.3 376.9 565.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.629 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042277.D
Acq: 08 Apr 2025 23:44

Tgt Ion: 95 Resp: 289703
Ion Ratio Lower Upper
95 100
174 63.0 50.6 76.0
175 4.7 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.054 ppbv

RT: 11.131 min Scan# 3409

Delta R.T. 0.009 min

Lab File: VL042277.D

Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025

Tgt Ion:105 Resp: 3486

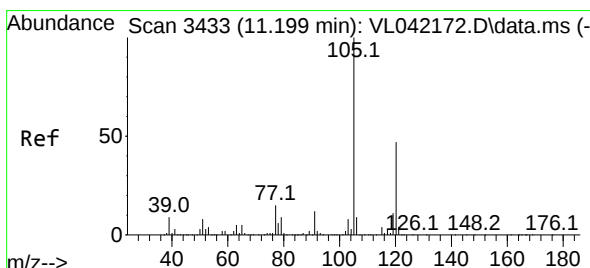
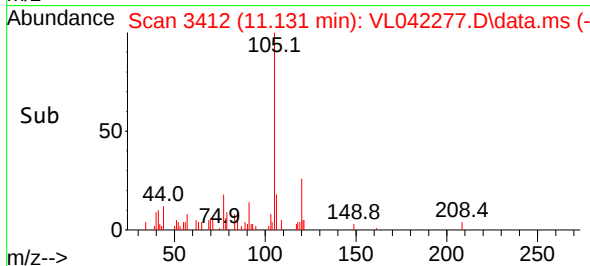
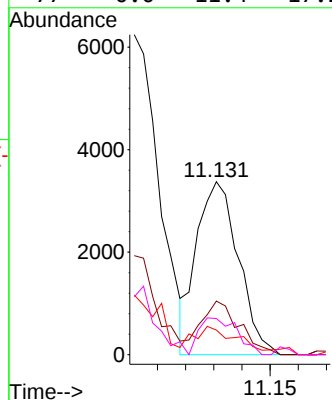
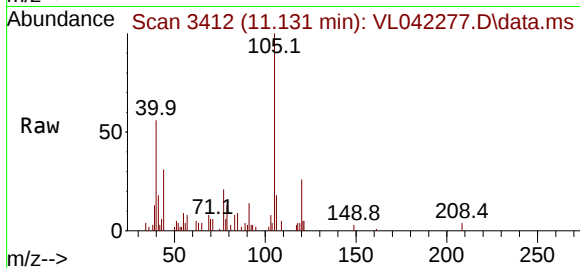
Ion Ratio Lower Upper

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: 0.052 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.009 min

Lab File: VL042277.D

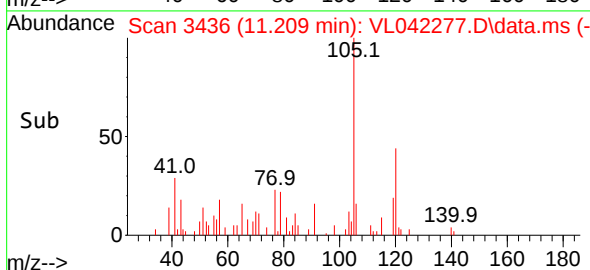
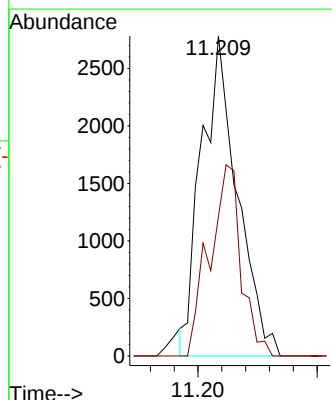
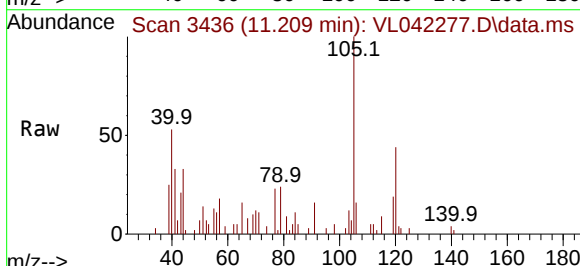
Acq: 08 Apr 2025 23:44

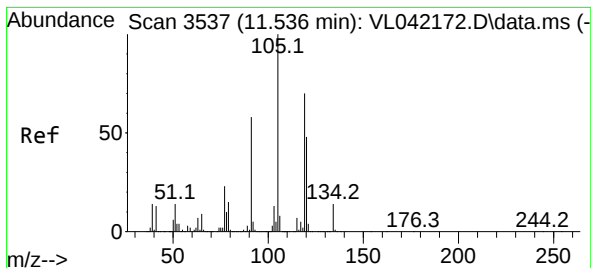
Tgt Ion:105 Resp: 2919

Ion Ratio Lower Upper

105 100

120 43.6 37.4 56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.167 ppbv

RT: 11.545 min Scan# 31

Delta R.T. 0.009 min

Lab File: VL042277.D

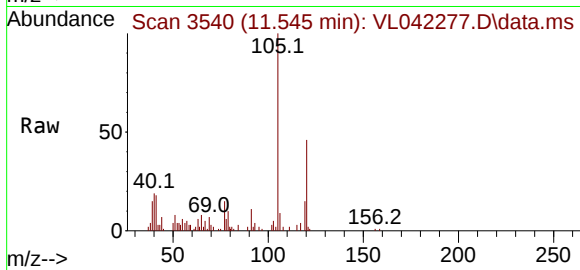
Acq: 08 Apr 2025 23:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025



Tgt Ion:105 Resp: 10923

Ion Ratio Lower Upper

105 100

120 45.9 38.6 58.0

91 9.9 46.2 69.2#

77 14.0 18.6 27.8#

