

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042271.D
 Acq On : 08 Apr 2025 19:03
 Operator : SY/MD
 Sample : Q1728-10 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025

Quant Time: Apr 09 01:59:38 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

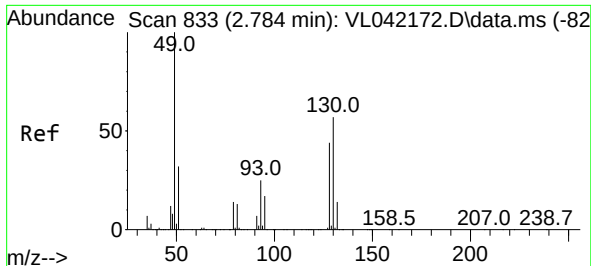
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.793	49	156461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	398650	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	347563	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	280057	9.812	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1255	0.054	ppbv #	80
4) Chloromethane	1.538	50	639	0.068	ppbv	95
8) Dichlorotetrafluoroethane	1.502	85	1255	0.064	ppbv #	23
9) Propene	1.489	41	1392	0.129	ppbv	89
13) Ethanol	1.890	45	61799	60.435	ppbv #	27
15) Acetone	1.839	43	67031	3.063	ppbv	94
16) 1,3-Butadiene	1.605	39	598	0.056	ppbv #	11
19) Isopropyl Alcohol	1.890	45	61799	5.005	ppbv #	34
20) Methylene Chloride	2.065	84	7654	0.939	ppbv	90
23) Vinyl Acetate	2.463	43	752	0.079	ppbv #	65
25) Ethyl Acetate	2.835	43	2846	0.050	ppbv #	77
26) Hexane	2.832	57	3697	0.169	ppbv #	34
30) Cyclohexane	3.959	84	2988	0.157	ppbv #	1
34) 2-Butanone	2.570	43	2219	0.077	ppbv	91
39) 1,2-Dichloropropane	3.968	63	101870	7.078	ppbv #	23
44) 2,2,4-Trimethylpentane	4.920	57	21746	0.326	ppbv #	51
53) Toluene	6.952	91	2764	0.059	ppbv	88
58) Ethyl Benzene	9.360	91	3146	0.051	ppbv #	69
59) m/p-Xylene	9.551	91	2941	0.060	ppbv #	31
60) o-Xylene	9.972	91	1821	0.037	ppbv	92

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

Quant Time: Apr 09 01:59:38 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

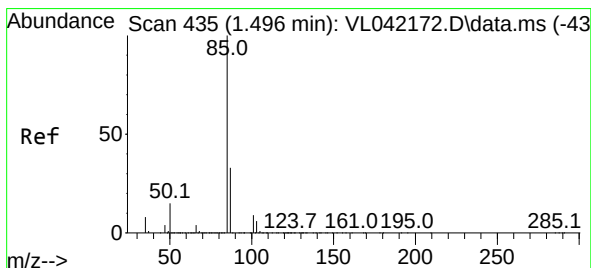
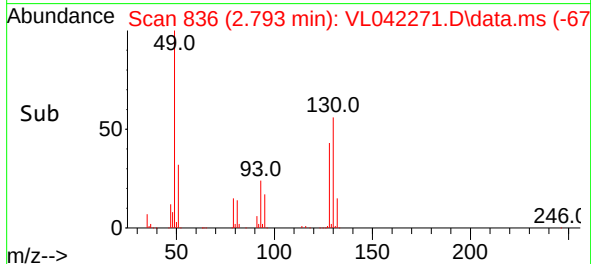
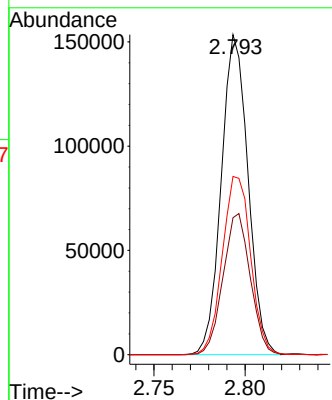
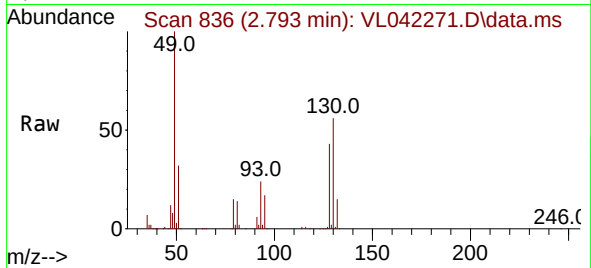




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 81
 Delta R.T. 0.009 min
 Lab File: VL042271.D
 Acq: 08 Apr 2025 19:03

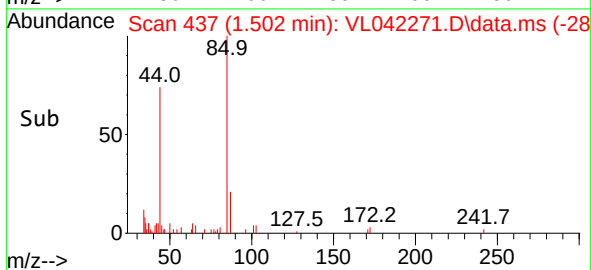
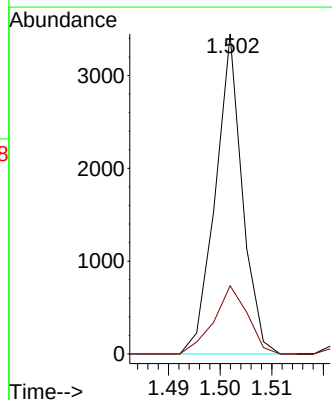
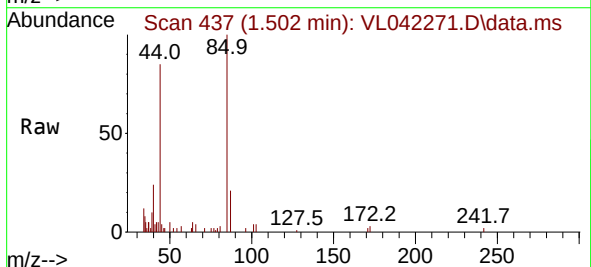
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-4-04012025

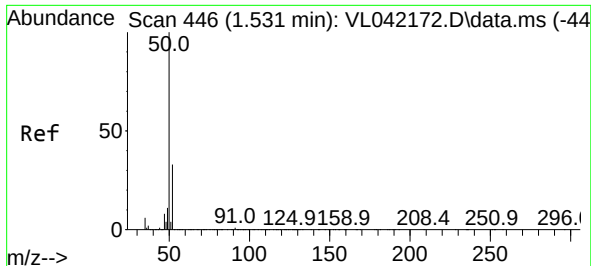
Tgt Ion: 49 Resp: 156461
 Ion Ratio Lower Upper
 49 100
 128 45.1 22.9 68.5
 130 59.1 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.054 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL042271.D
 Acq: 08 Apr 2025 19:03

Tgt Ion: 85 Resp: 1255
 Ion Ratio Lower Upper
 85 100
 87 21.3 26.1 39.1#





#4

Chloromethane

Concen: 0.068 ppbv

RT: 1.538 min Scan# 446

Delta R.T. 0.006 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

Instrument :

MSVOA_L

ClientSampleId :

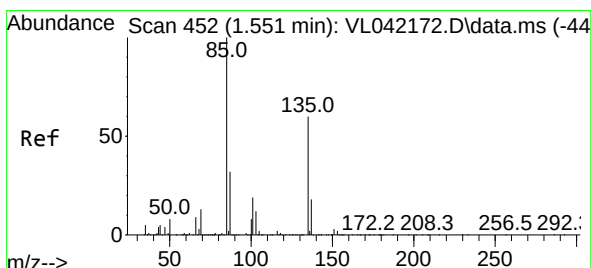
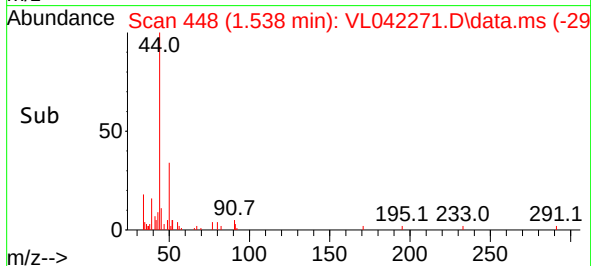
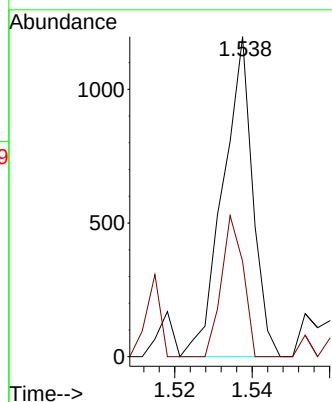
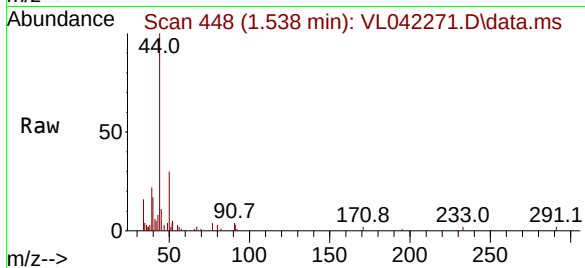
SSSG-B14-4-04012025

Tgt Ion: 50 Resp: 639

Ion Ratio Lower Upper

50 100

52 29.7 26.1 39.1



#8

Dichlorotetrafluoroethane

Concen: 0.064 ppbv

RT: 1.502 min Scan# 437

Delta R.T. -0.049 min

Lab File: VL042271.D

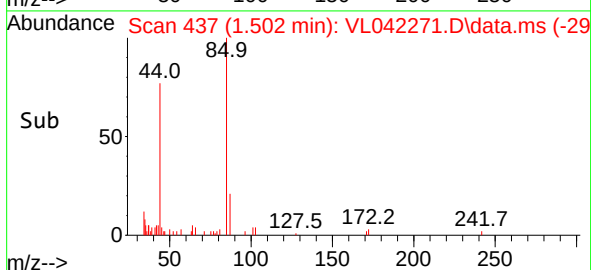
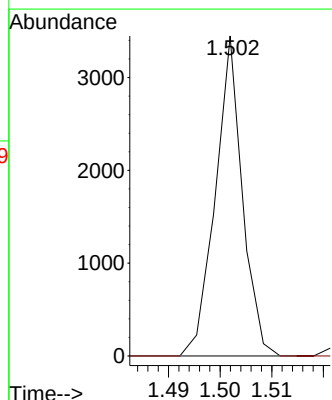
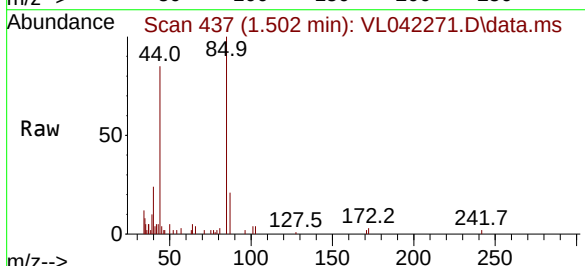
Acq: 08 Apr 2025 19:03

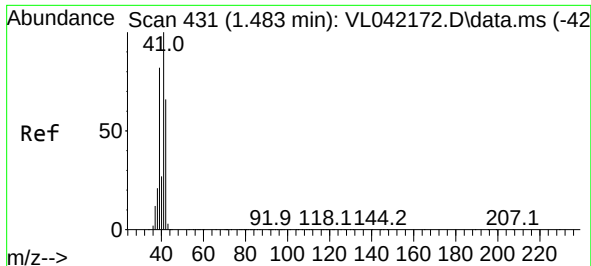
Tgt Ion: 85 Resp: 1255

Ion Ratio Lower Upper

85 100

135 4.6 52.4 78.6#





#9

Propene

Concen: 0.129 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

Instrument :

MSVOA_1

ClientSampleId :

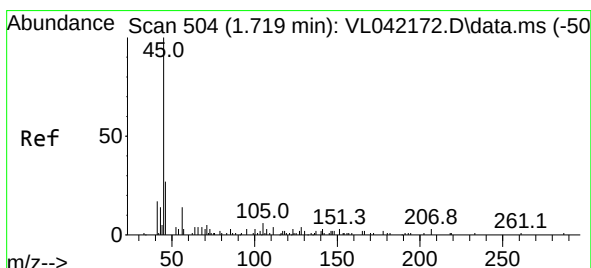
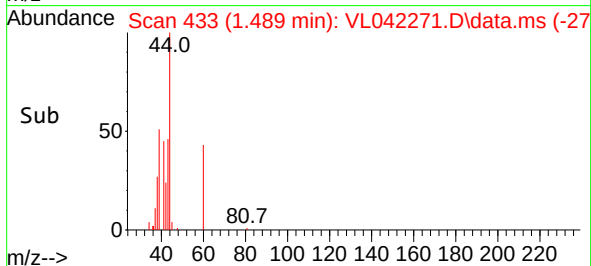
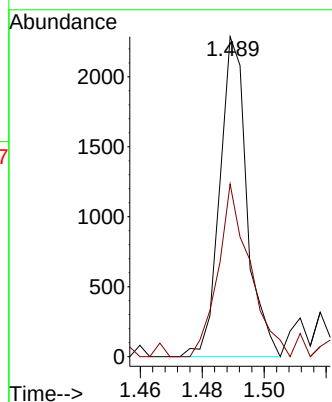
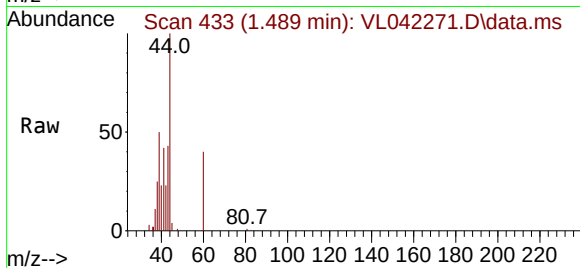
SSSG-B14-4-04012025

Tgt Ion: 41 Resp: 1392

Ion Ratio Lower Upper

41 100

42 78.6 55.4 83.2



#13

Ethanol

Concen: 60.435 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.171 min

Lab File: VL042271.D

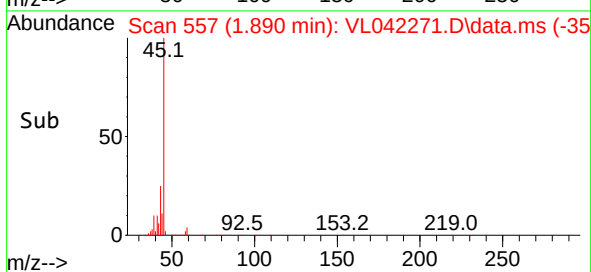
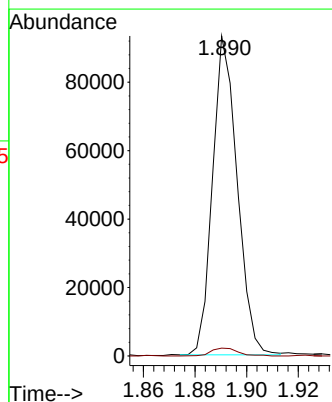
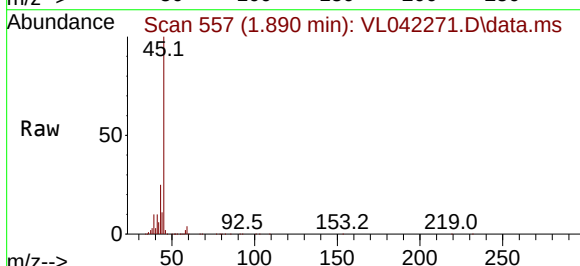
Acq: 08 Apr 2025 19:03

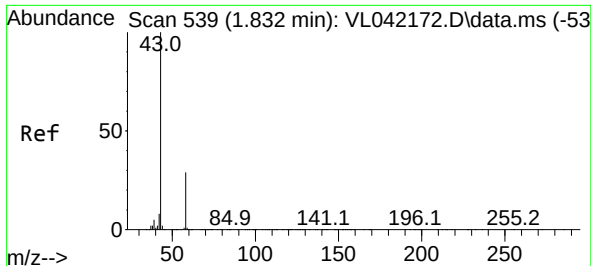
Tgt Ion: 45 Resp: 61799

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 3.063 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

Instrument :

MSVOA_L

ClientSampleId :

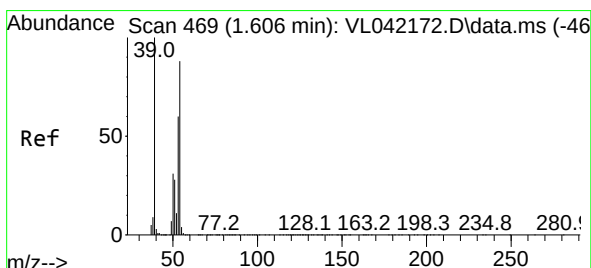
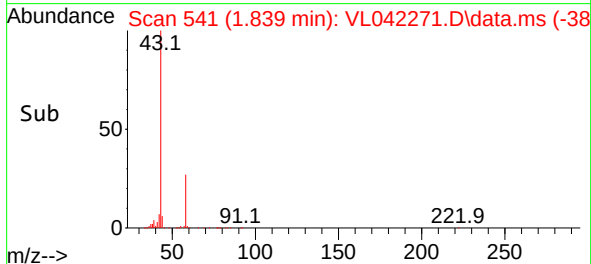
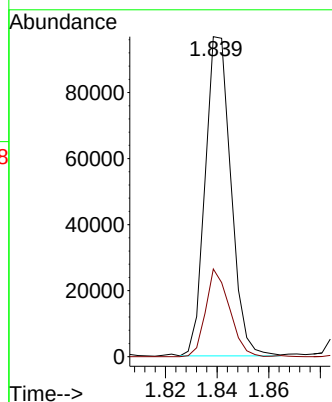
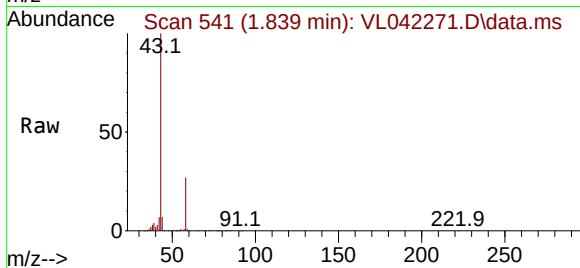
SSSG-B14-4-04012025

Tgt Ion: 43 Resp: 67031

Ion Ratio Lower Upper

43 100

58 25.6 23.2 34.8



#16

1,3-Butadiene

Concen: 0.056 ppbv

RT: 1.605 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL042271.D

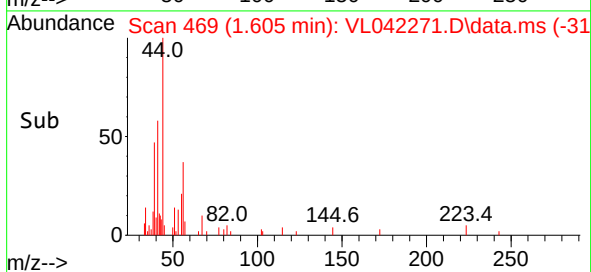
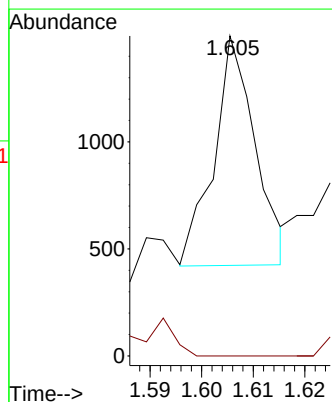
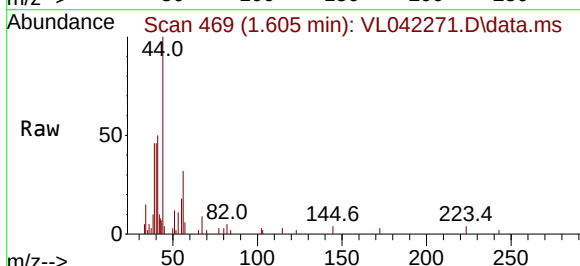
Acq: 08 Apr 2025 19:03

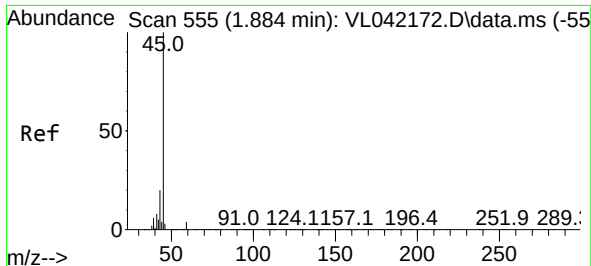
Tgt Ion: 39 Resp: 598

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#

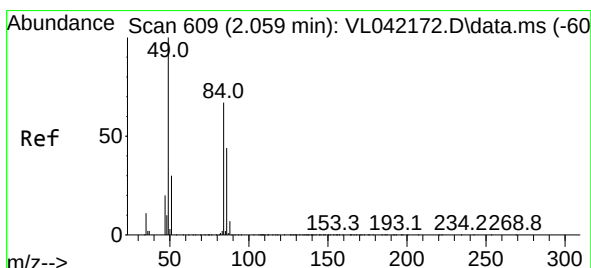
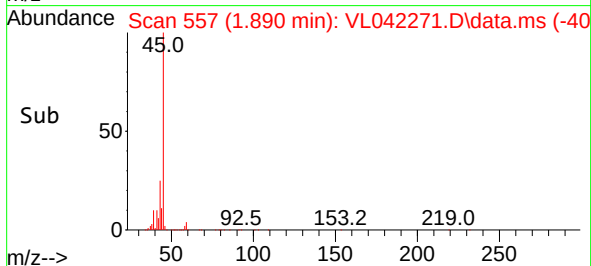
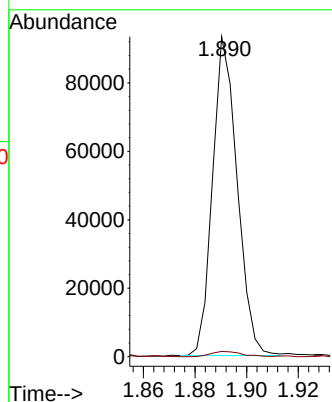
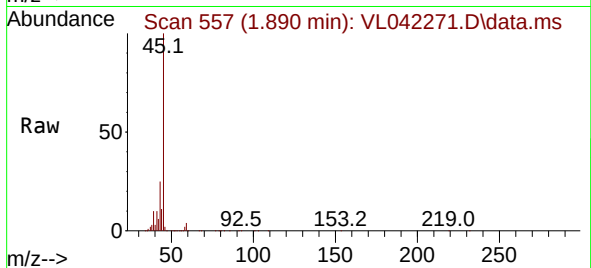




#19
Isopropyl Alcohol
Concen: 5.005 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

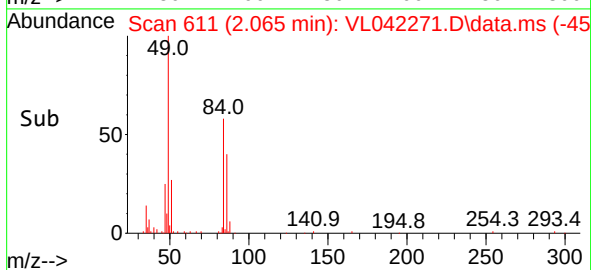
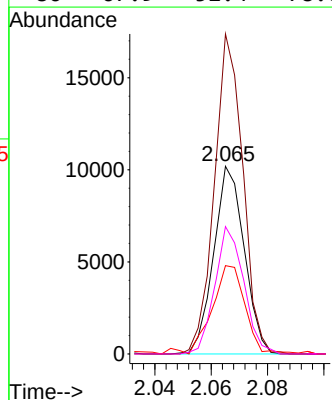
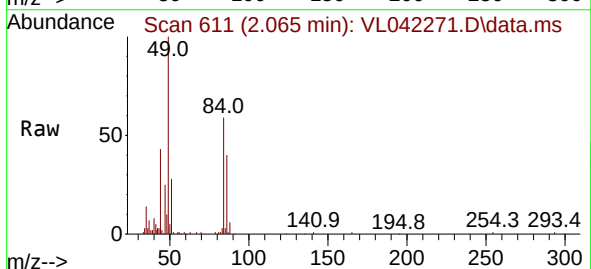
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

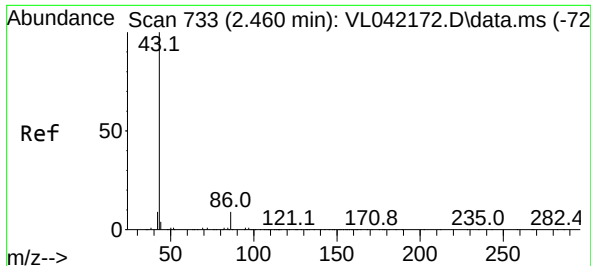
Tgt Ion: 45 Resp: 61799
Ion Ratio Lower Upper
45 100
58 2.3 36.9 55.3#



#20
Methylene Chloride
Concen: 0.939 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Tgt Ion: 84 Resp: 7654
Ion Ratio Lower Upper
84 100
49 170.5 120.2 180.4
51 46.1 37.4 56.0
86 67.9 52.4 78.6

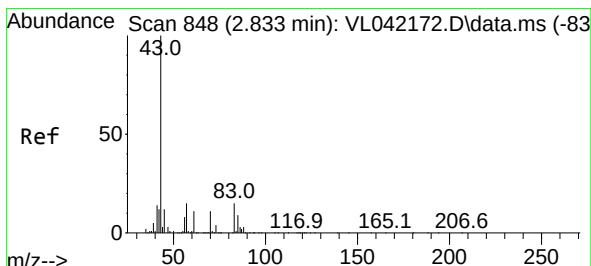
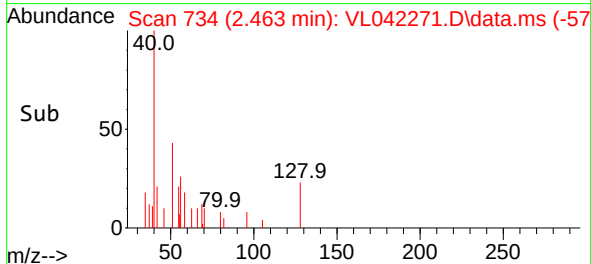
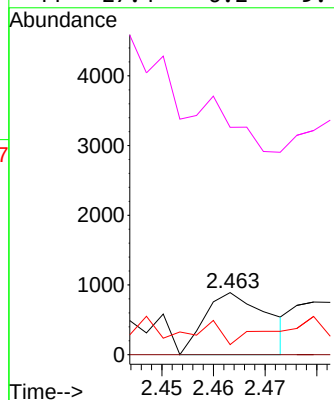
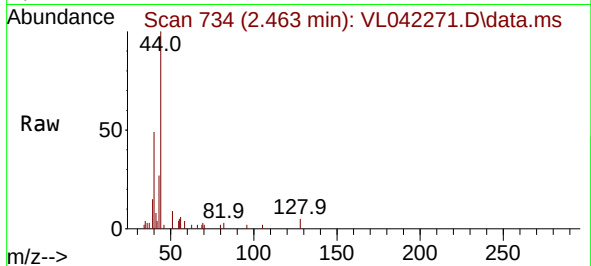




#23
Vinyl Acetate
Concen: 0.079 ppbv
RT: 2.463 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

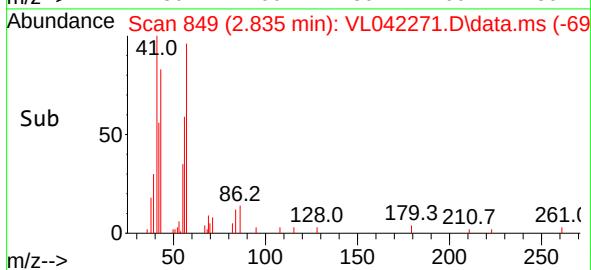
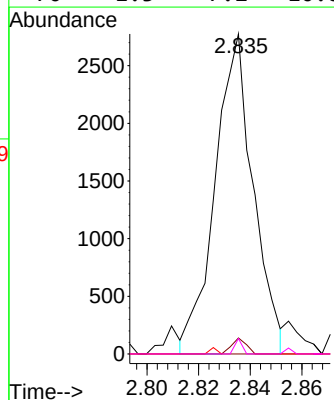
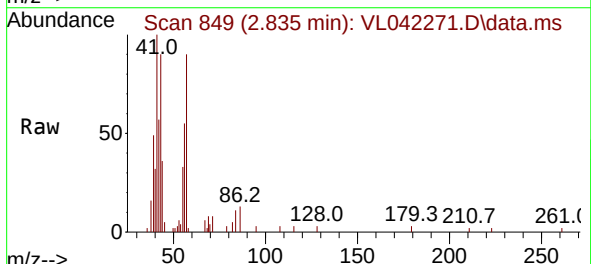
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

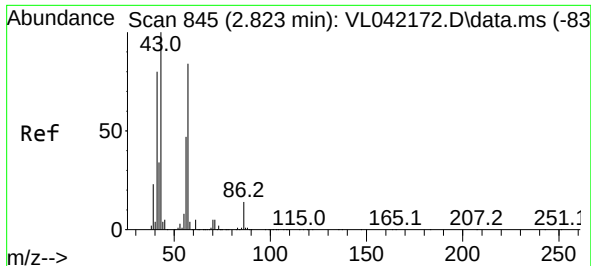
Tgt Ion: 43	Resp: 752
Ion Ratio	Lower Upper
43 100	
86 0.0	5.5 8.3#
42 0.0	8.6 13.0#
44 27.4	6.2 9.4#



#25
Ethyl Acetate
Concen: 0.050 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

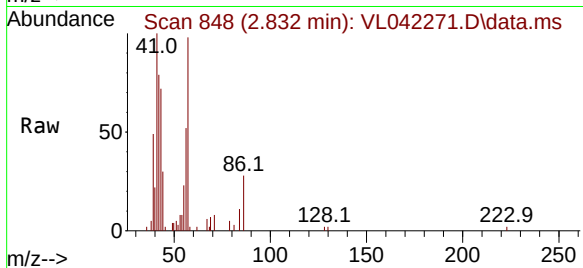
Tgt Ion: 43	Resp: 2846
Ion Ratio	Lower Upper
43 100	
45 1.9	8.2 12.2#
61 0.4	7.3 10.9#
70 1.3	7.2 10.8#



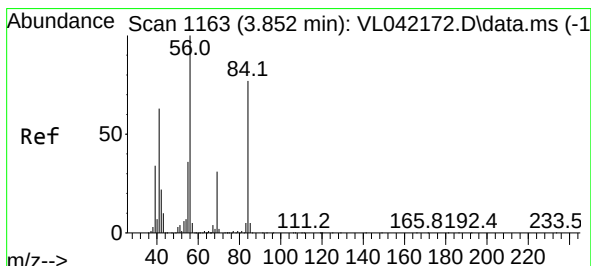
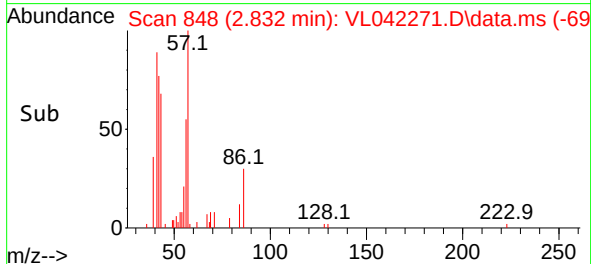
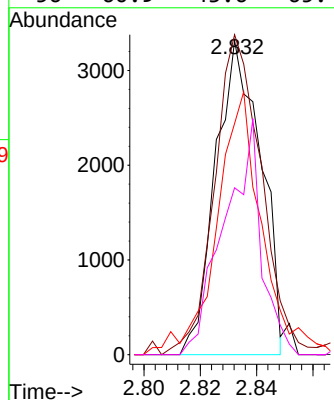


#26
Hexane
Concen: 0.169 ppbv
RT: 2.832 min Scan# 845
Delta R.T. 0.009 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Instrument :
MSVOA_1
ClientSampleId :
SSSG-B14-4-04012025

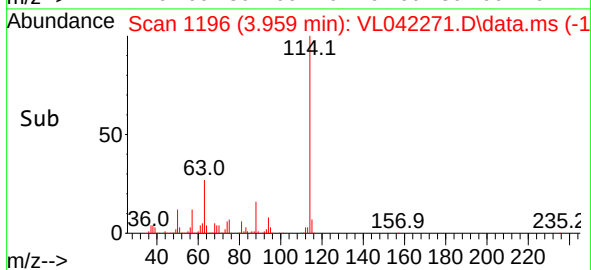
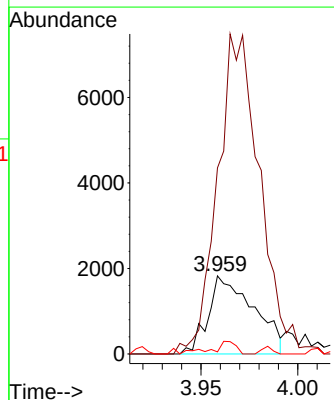
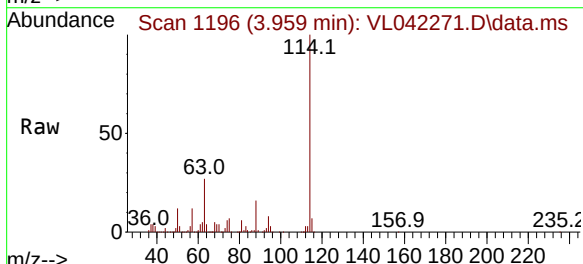


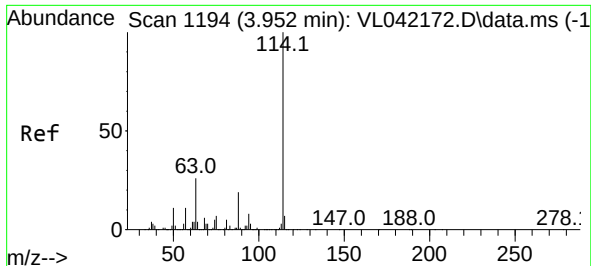
Tgt Ion:	57	Resp:	3697
Ion	Ratio	Lower	Upper
57	100		
41	108.1	76.6	114.8
43	84.8	207.8	311.8#
56	60.9	43.6	65.4



#30
Cyclohexane
Concen: 0.157 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.106 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Tgt Ion:	84	Resp:	2988
Ion	Ratio	Lower	Upper
84	100		
56	379.4	102.8	154.2#
41	11.2	66.5	99.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

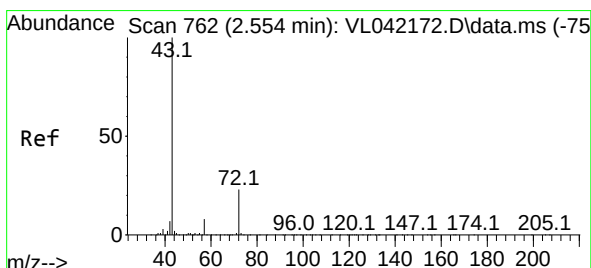
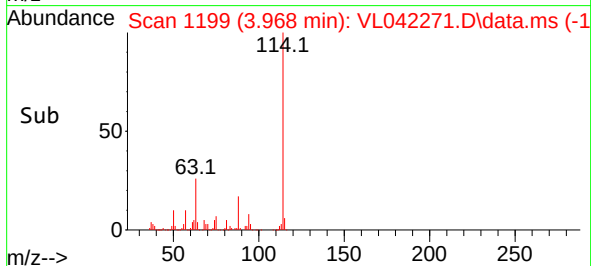
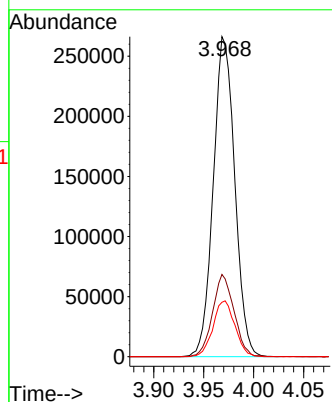
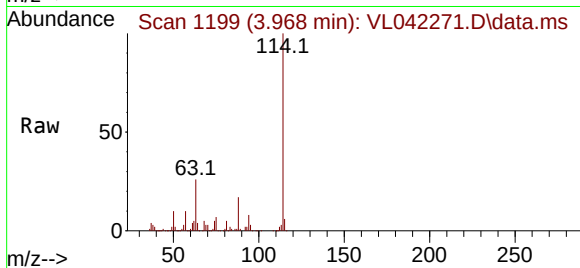
Tgt Ion:114 Resp: 398650

Ion Ratio Lower Upper

114 100

63 25.6 20.7 31.1

88 17.8 15.0 22.4



#34

2-Butanone

Concen: 0.077 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042271.D

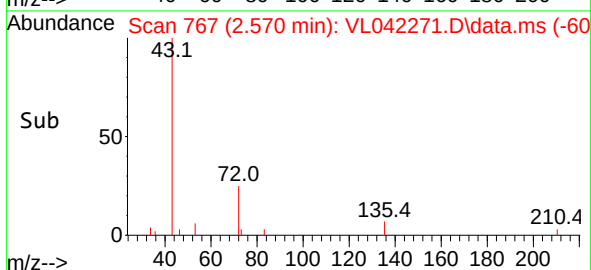
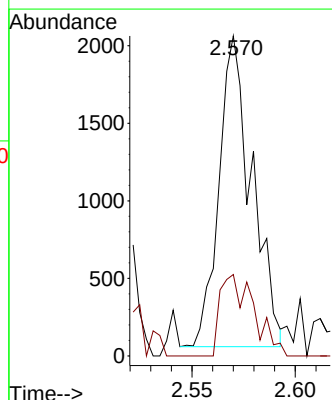
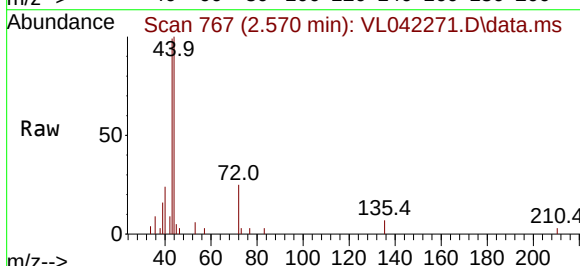
Acq: 08 Apr 2025 19:03

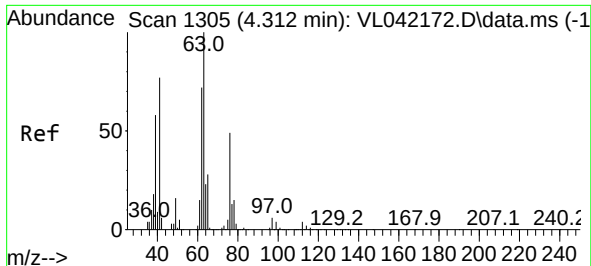
Tgt Ion: 43 Resp: 2219

Ion Ratio Lower Upper

43 100

72 26.9 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.078 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-4-04012025

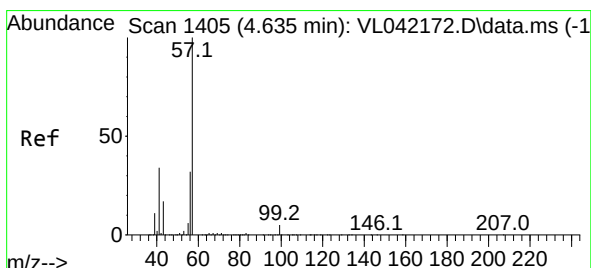
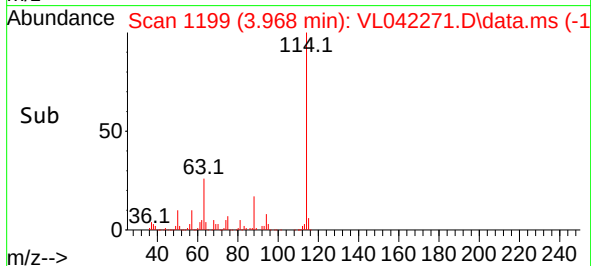
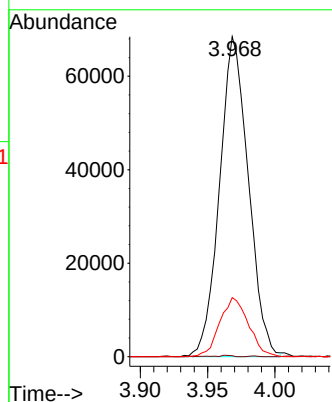
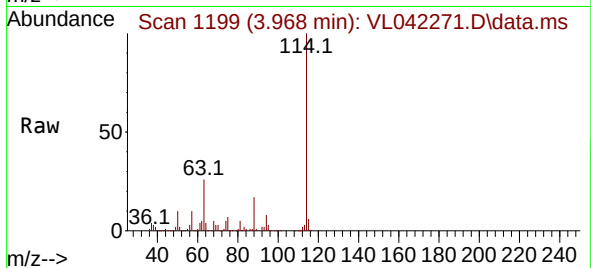
Tgt Ion: 63 Resp: 101870

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 18.5 57.6 86.4#



#44

2,2,4-Trimethylpentane

Concen: 0.326 ppbv

RT: 4.920 min Scan# 1493

Delta R.T. 0.285 min

Lab File: VL042271.D

Acq: 08 Apr 2025 19:03

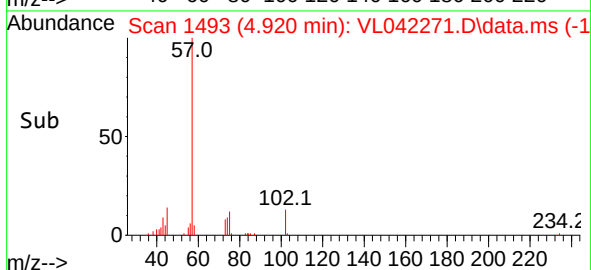
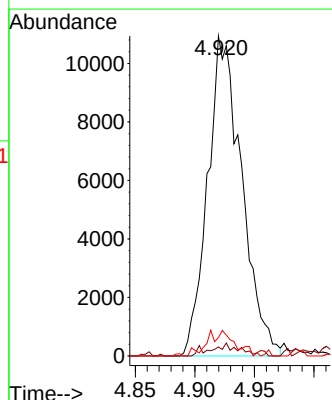
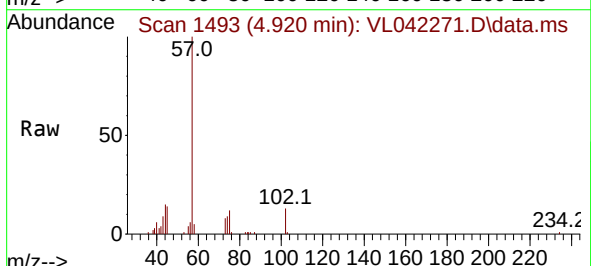
Tgt Ion: 57 Resp: 21746

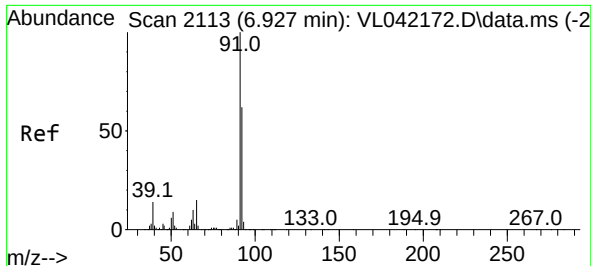
Ion Ratio Lower Upper

57 100

41 3.5 26.8 40.2#

56 6.7 25.6 38.4#

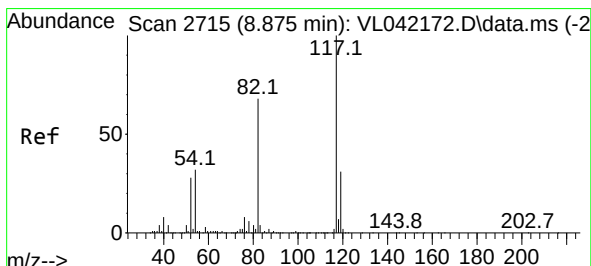
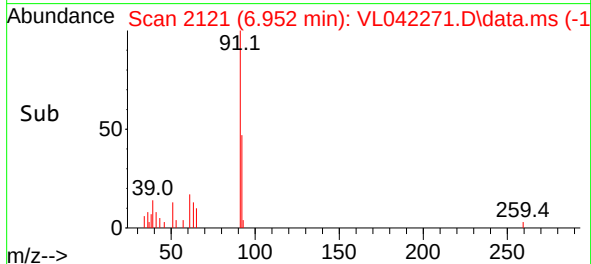
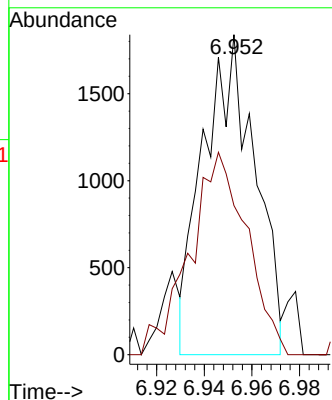
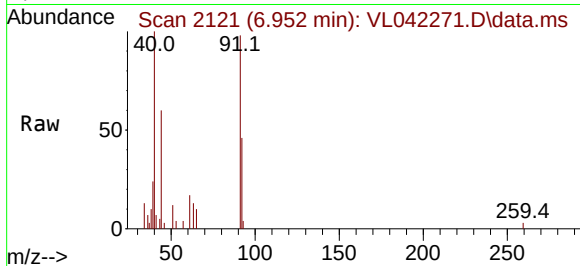




#53
Toluene
Concen: 0.059 ppbv
RT: 6.952 min Scan# 2113
Delta R.T. 0.026 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

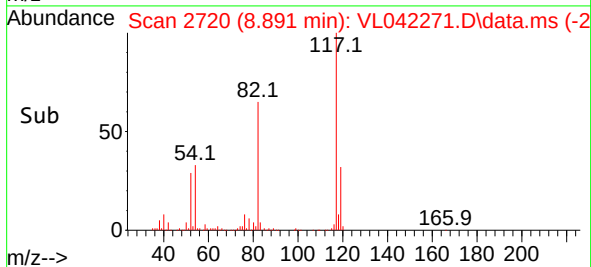
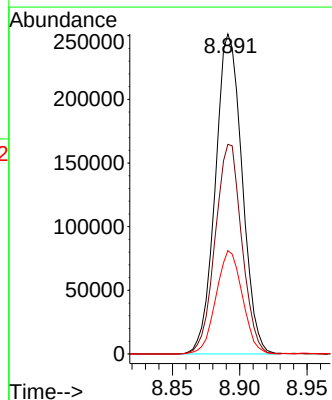
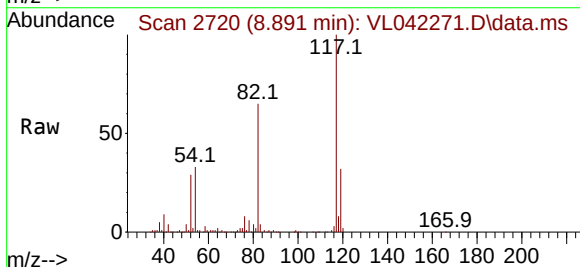
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

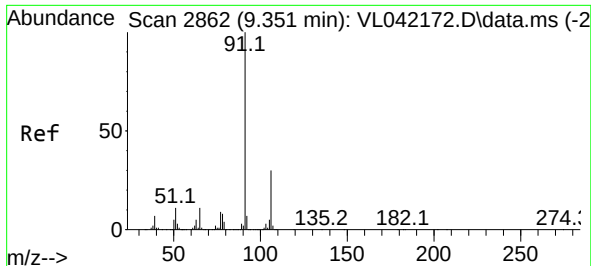
Tgt Ion: 91 Resp: 2764
Ion Ratio Lower Upper
91 100
92 69.9 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Tgt Ion: 117 Resp: 347563
Ion Ratio Lower Upper
117 100
82 65.4 55.8 83.6
119 32.1 25.5 38.3

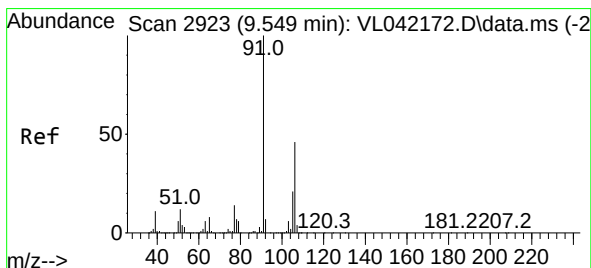
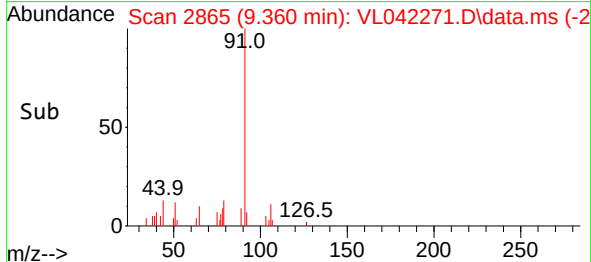
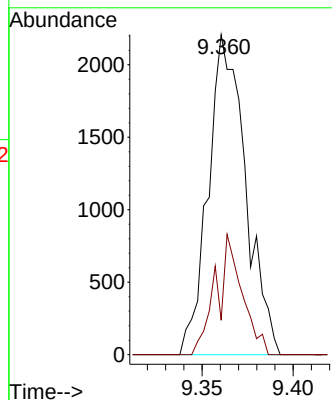
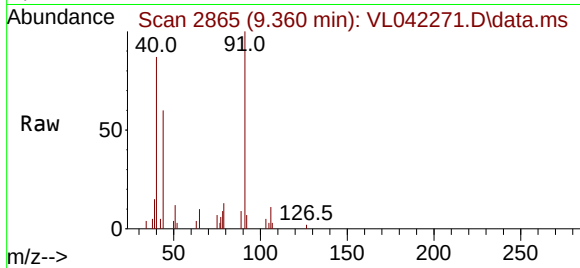




#58
Ethyl Benzene
Concen: 0.051 ppbv
RT: 9.360 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

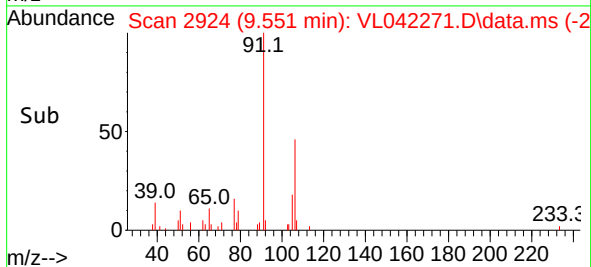
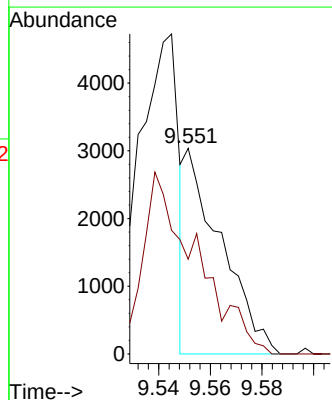
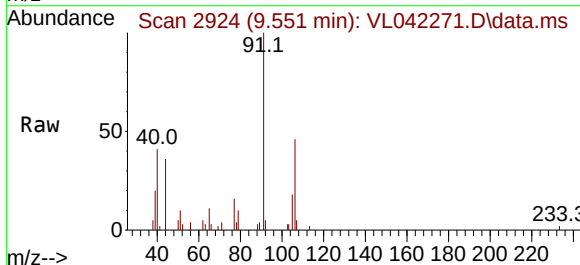
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

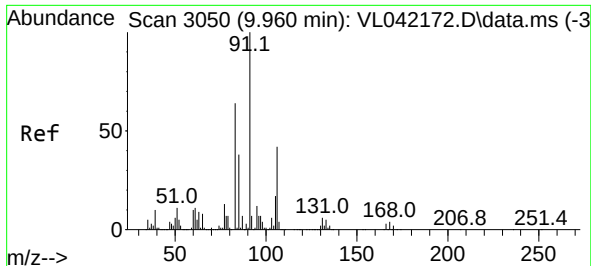
Tgt Ion: 91 Resp: 3146
Ion Ratio Lower Upper
91 100
106 13.5 24.2 36.2#



#59
m/p-Xylene
Concen: 0.060 ppbv
RT: 9.551 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Tgt Ion: 91 Resp: 2941
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

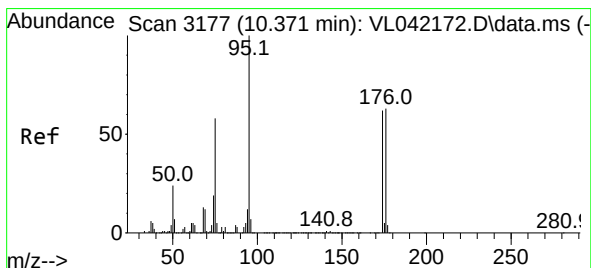
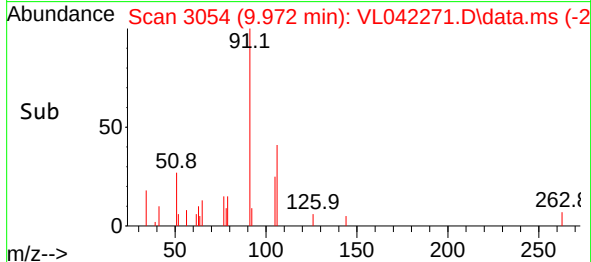
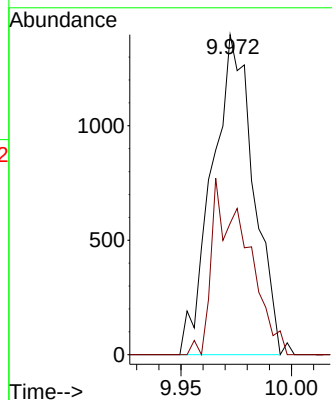
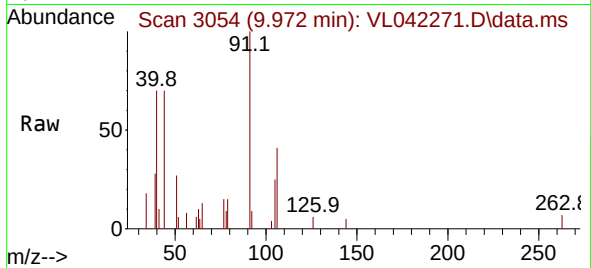




#60
o-Xylene
Concen: 0.037 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.013 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-4-04012025

Tgt Ion: 91 Resp: 1821
Ion Ratio Lower Upper
91 100
106 46.8 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.812 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.013 min
Lab File: VL042271.D
Acq: 08 Apr 2025 19:03

Tgt Ion: 95 Resp: 280057
Ion Ratio Lower Upper
95 100
174 60.5 50.6 76.0
175 4.7 3.8 5.6

