

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042245.D
 Acq On : 07 Apr 2025 22:40
 Operator : SY/MD
 Sample : Q1725-05 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

Quant Time: Apr 08 01:37:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

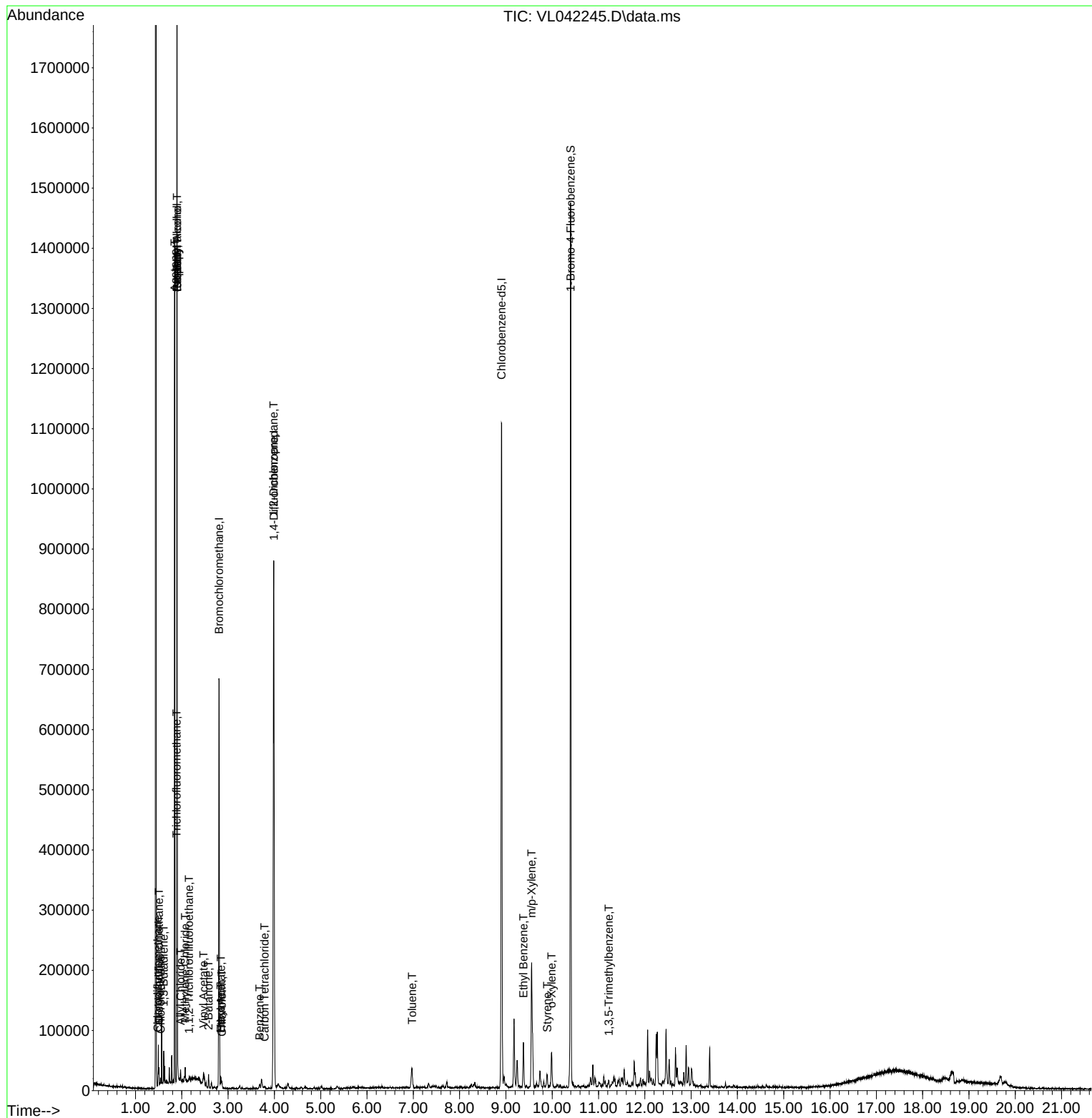
Internal Standards						
1) Bromochloromethane	2.803	49	191155	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	493918	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.908	117	441320	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	357099	9.853	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.506	85	6425	0.228	ppbv	93
3) Chlorodifluoromethane	1.483	51	6551	0.227	ppbv	100
4) Chloromethane	1.541	50	2684	0.233	ppbv	100
9) Propene	1.897	41	113954	8.623	ppbv	88
11) Trichlorofluoromethane	1.887	101	2858	0.104	ppbv #	75
12) 1,1,2-Trichlorotrifluo...	2.156	101	802	0.036	ppbv	94
13) Ethanol	1.897	45	1101017	881.302	ppbv #	31
15) Acetone	1.845	43	590313	22.081	ppbv	96
16) 1,3-Butadiene	1.609	39	5554	0.425	ppbv #	25
17) tert-Butyl alcohol	1.897	59	42857	1.287	ppbv	96
19) Isopropyl Alcohol	1.897	45	1101017	72.993	ppbv #	32
20) Methylene Chloride	2.072	84	3195	0.321	ppbv #	94
21) Allyl Chloride	1.975	41	2742	0.145	ppbv #	21
23) Vinyl Acetate	2.470	43	12740	1.101	ppbv #	91
25) Ethyl Acetate	2.845	43	2924	0.042	ppbv #	65
26) Hexane	2.842	57	3476	0.130	ppbv #	33
29) Chloroform	2.865	83	4102	0.105	ppbv	91
34) 2-Butanone	2.577	43	12837	0.358	ppbv	97
35) Carbon Tetrachloride	3.791	117	1273	0.033	ppbv #	66
36) Benzene	3.681	78	2854	0.058	ppbv #	90
39) 1,2-Dichloropropane	3.985	63	129244	7.248	ppbv #	22
53) Toluene	6.972	91	22311	0.384	ppbv	97
58) Ethyl Benzene	9.377	91	35929	0.458	ppbv	96
59) m/p-Xylene	9.555	91	125540	2.006	ppbv	99
60) o-Xylene	9.986	91	25937	0.413	ppbv	100
61) Styrene	9.895	104	6211	0.200	ppbv	92
73) 1,3,5-Trimethylbenzene	11.219	105	2628	0.039	ppbv	98

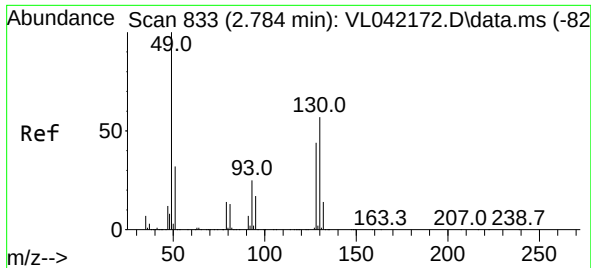
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On    : 07 Apr 2025   22:40  
Operator  : SY/MD  
Sample    : Q1725-05 2X  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 12   Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

Quant Time: Apr 08 01:37:28 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

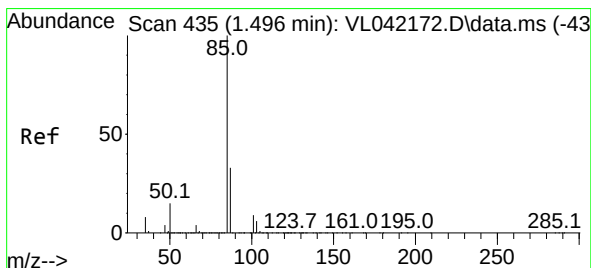
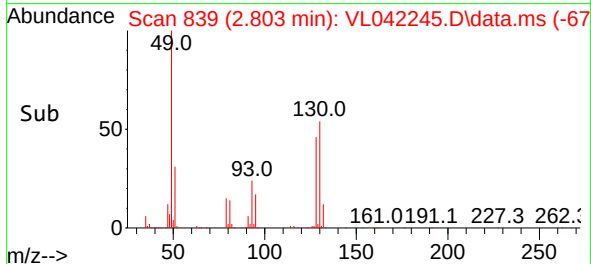
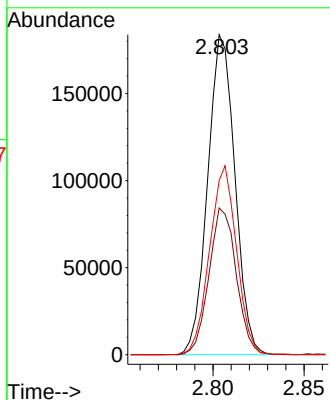
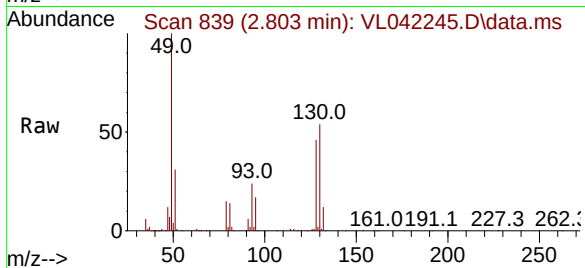




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

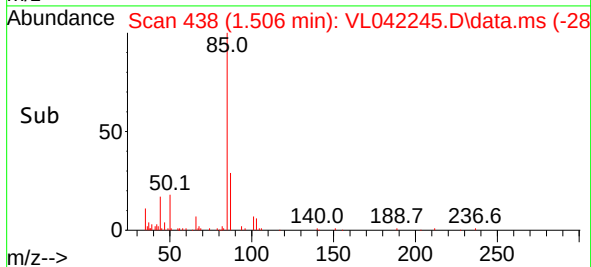
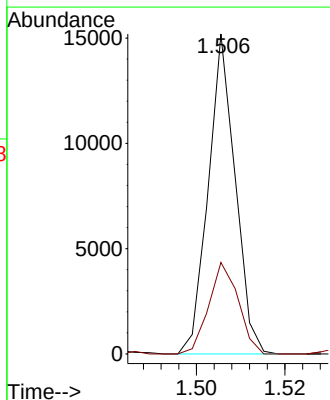
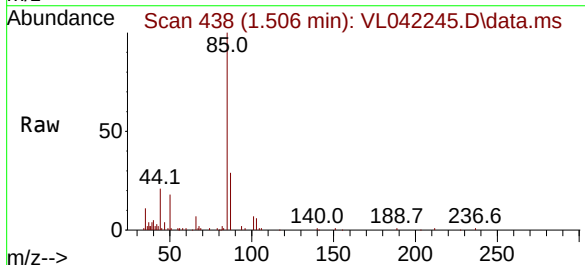
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B14-3-04012025

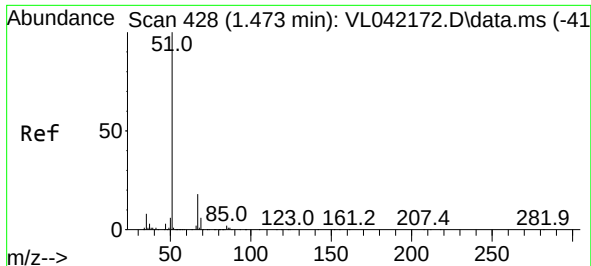
Tgt Ion: 49 Resp: 191155
 Ion Ratio Lower Upper
 49 100
 128 46.0 22.9 68.5
 130 58.6 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.228 ppbv
 RT: 1.506 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

Tgt Ion: 85 Resp: 6425
 Ion Ratio Lower Upper
 85 100
 87 28.6 26.1 39.1

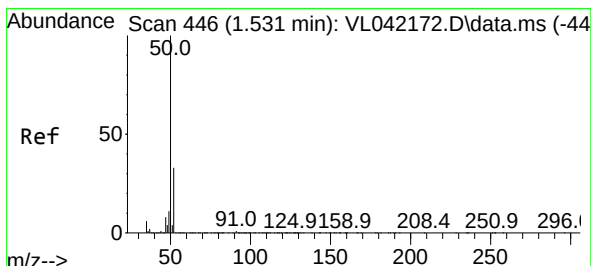
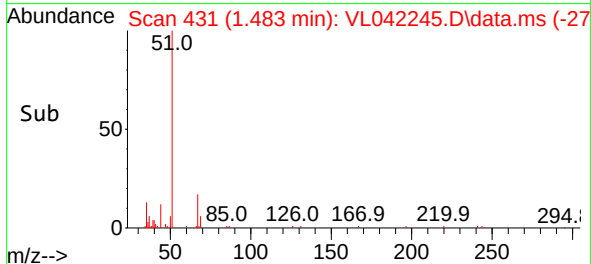
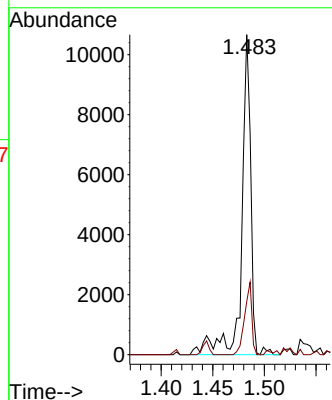
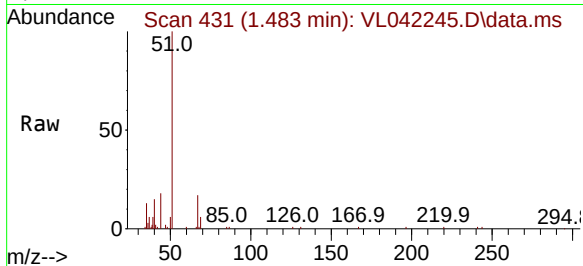




#3
Chlorodifluoromethane
Concen: 0.227 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

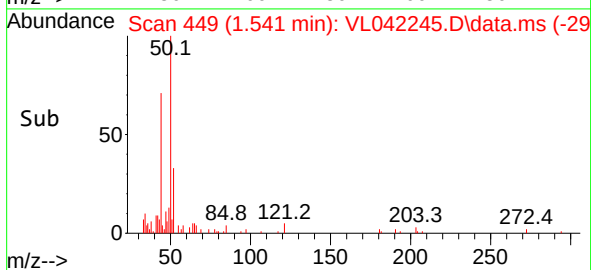
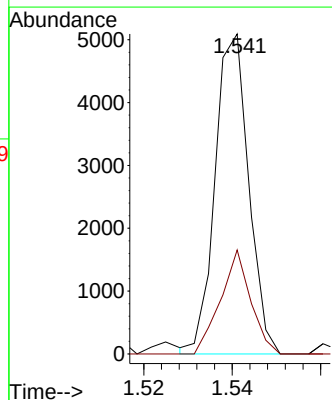
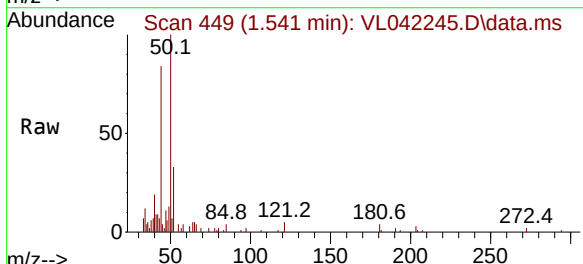
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

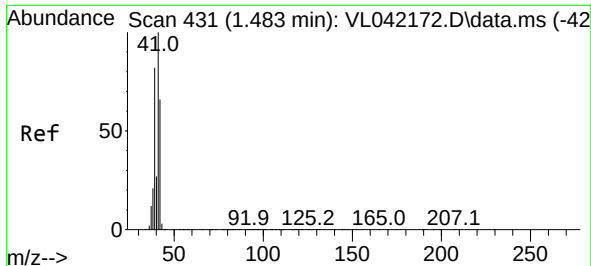
Tgt Ion: 51 Resp: 6551
Ion Ratio Lower Upper
51 100
67 18.8 15.0 22.6



#4
Chloromethane
Concen: 0.233 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 50 Resp: 2684
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1





#9

Propene

Concen: 8.623 ppbv

RT: 1.897 min Scan# 51

Delta R.T. 0.414 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_1

ClientSampleId :

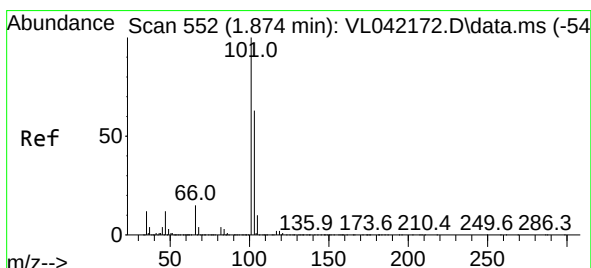
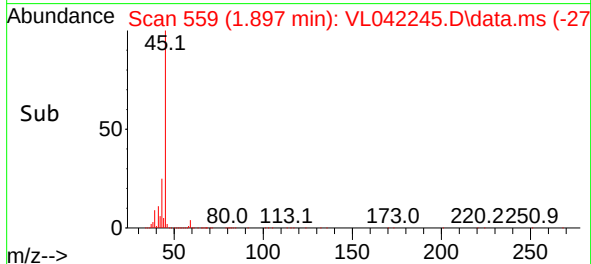
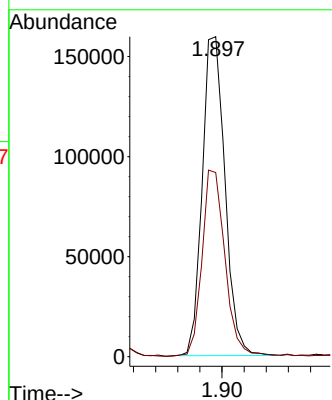
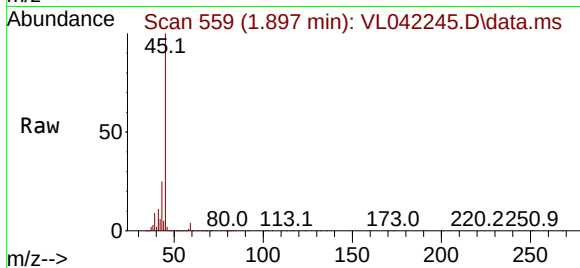
SSSG-B14-3-04012025

Tgt Ion: 41 Resp: 113954

Ion Ratio Lower Upper

41 100

42 59.1 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.104 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL042245.D

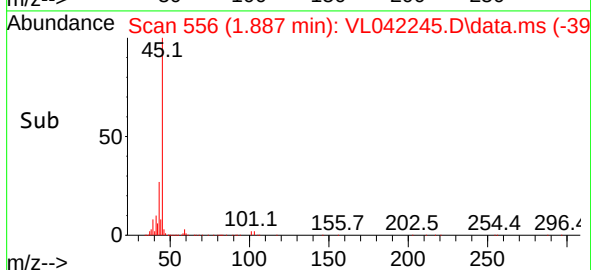
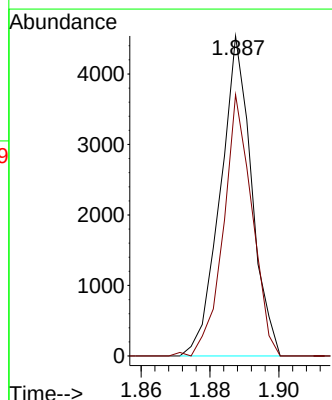
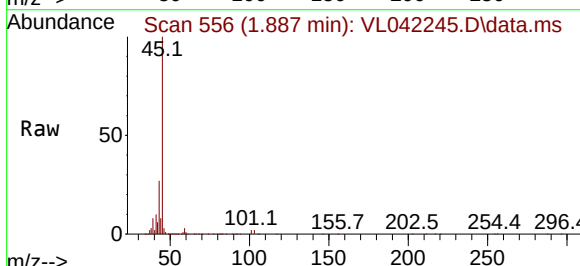
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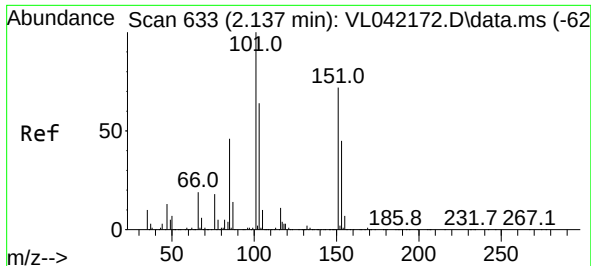
Tgt Ion:101 Resp: 2858

Ion Ratio Lower Upper

101 100

103 81.7 50.2 75.2#

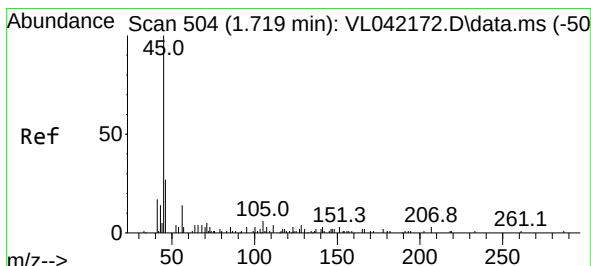
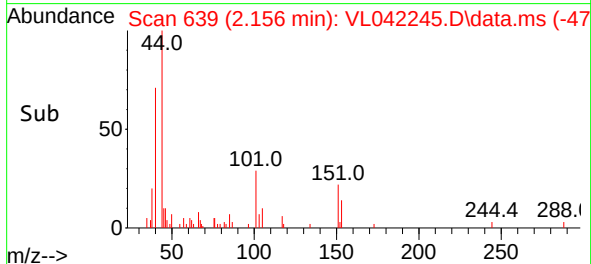
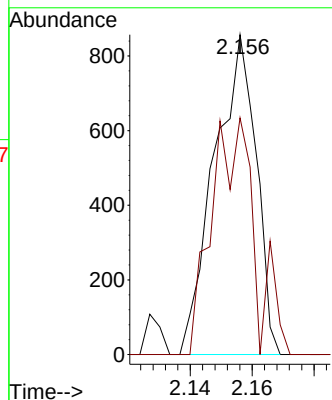
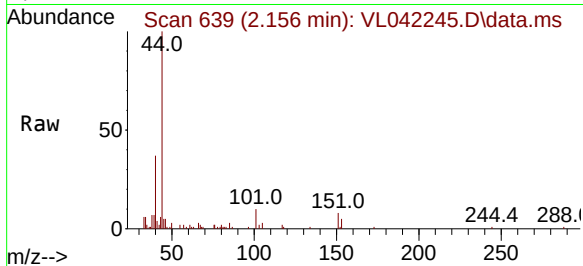




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.036 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

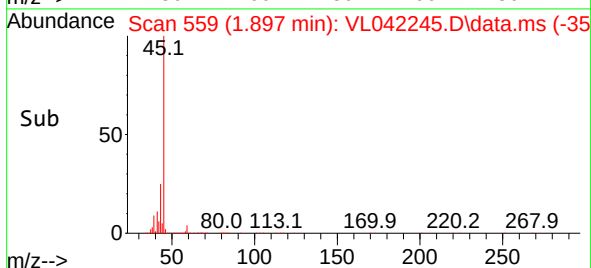
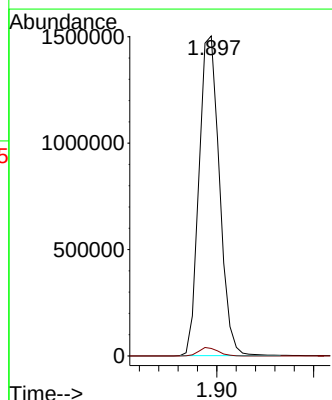
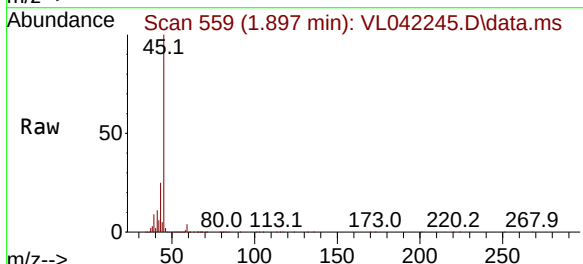
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

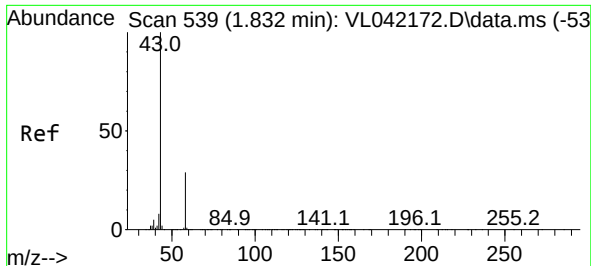
Tgt Ion:101 Resp: 802
Ion Ratio Lower Upper
101 100
151 76.3 57.1 85.7



#13
Ethanol
Concen: 881.302 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.178 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 45 Resp: 1101017
Ion Ratio Lower Upper
45 100
46 2.5 20.2 80.8#





#15

Acetone

Concen: 22.081 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

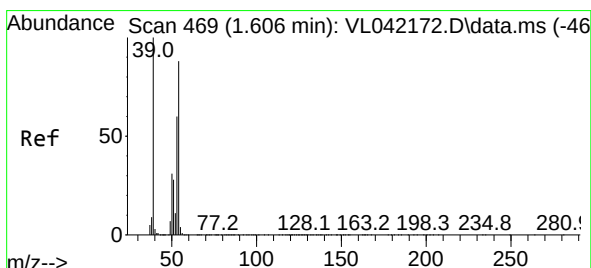
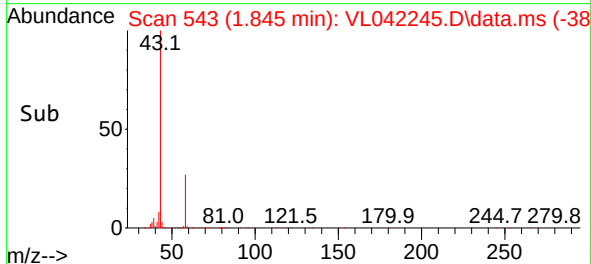
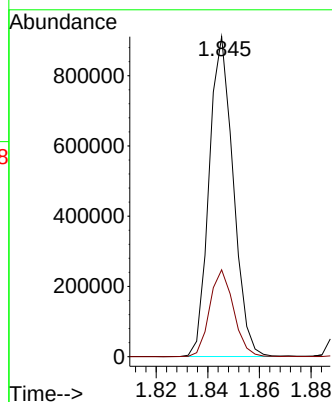
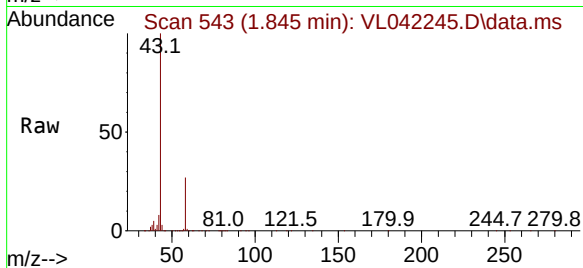
SSSG-B14-3-04012025

Tgt Ion: 43 Resp: 590313

Ion Ratio Lower Upper

43 100

58 27.0 23.2 34.8



#16

1,3-Butadiene

Concen: 0.425 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042245.D

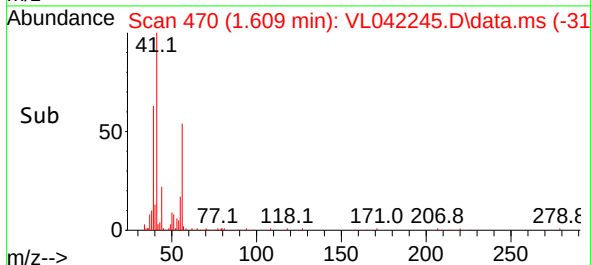
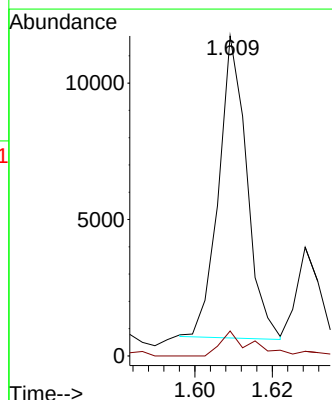
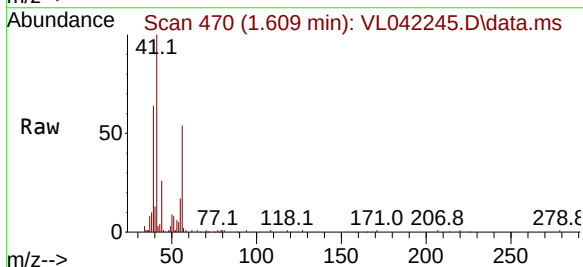
Acq: 07 Apr 2025 22:40

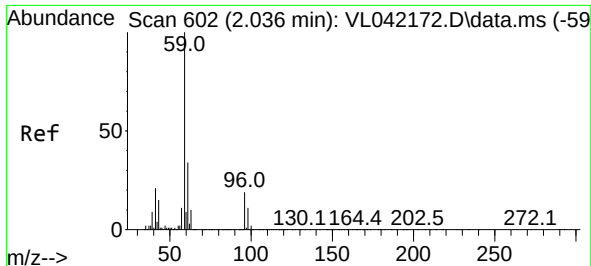
Tgt Ion: 39 Resp: 5554

Ion Ratio Lower Upper

39 100

54 11.8 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 1.287 ppbv

RT: 1.897 min Scan# 51

Delta R.T. -0.139 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

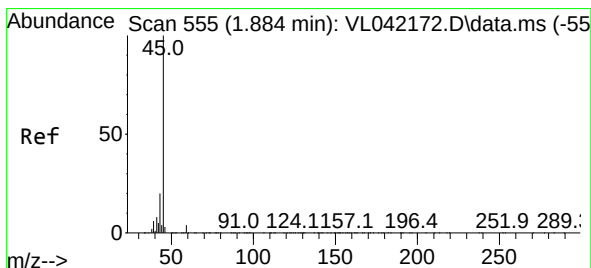
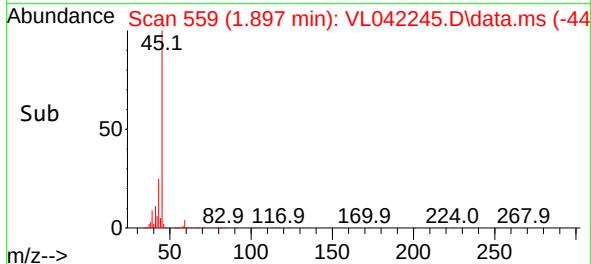
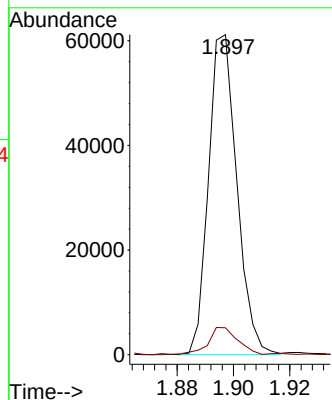
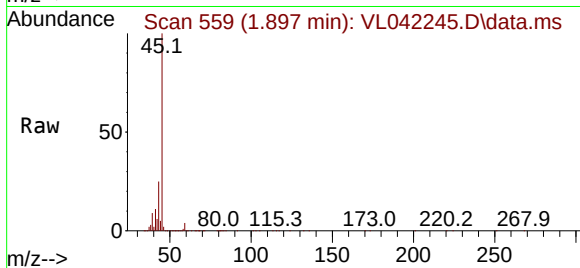
SSSG-B14-3-04012025

Tgt Ion: 59 Resp: 42857

Ion Ratio Lower Upper

59 100

57 9.4 8.9 13.3



#19

Isopropyl Alcohol

Concen: 72.993 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042245.D

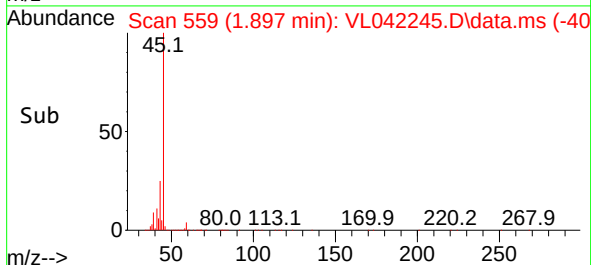
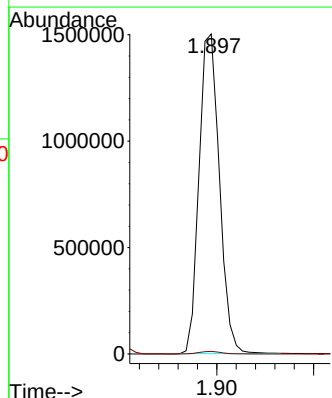
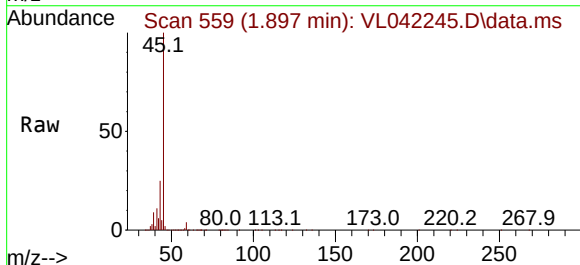
Acq: 07 Apr 2025 22:40

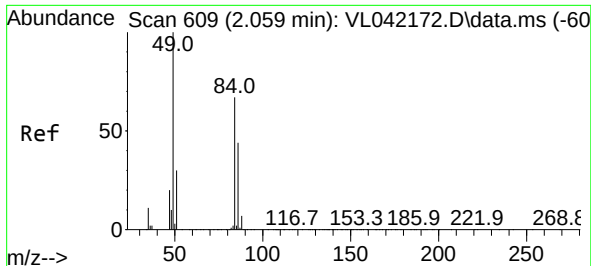
Tgt Ion: 45 Resp: 1101017

Ion Ratio Lower Upper

45 100

58 0.9 36.9 55.3#

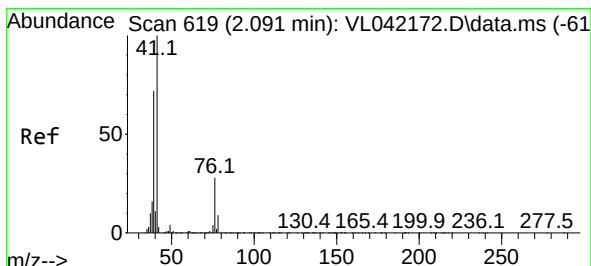
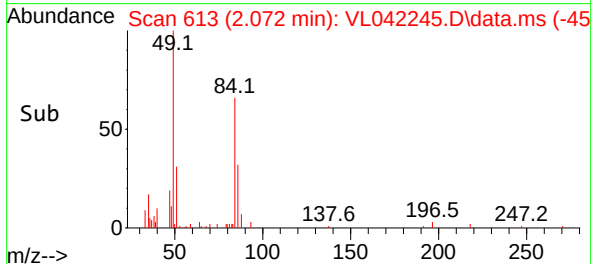
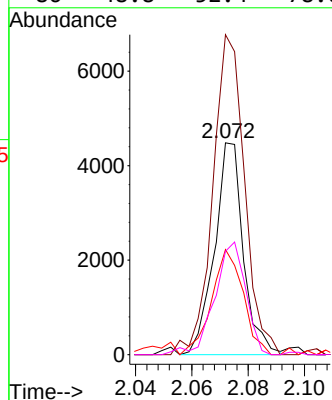
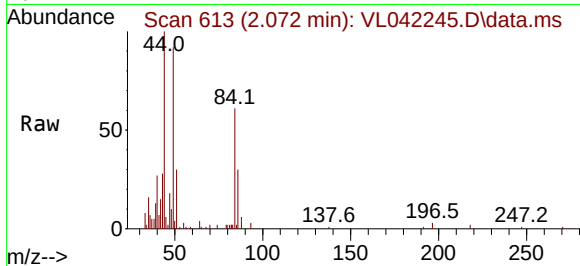




#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

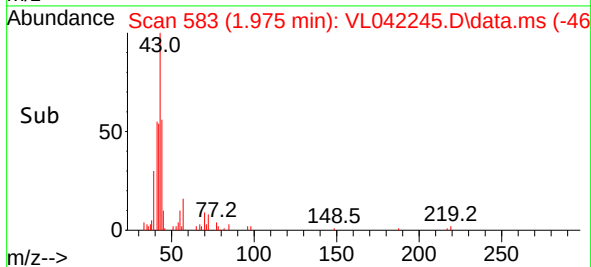
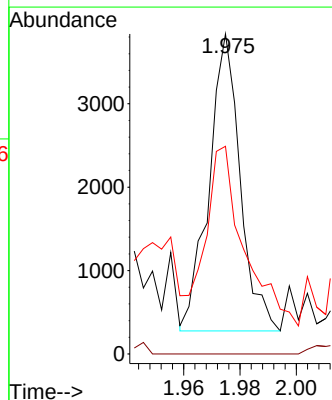
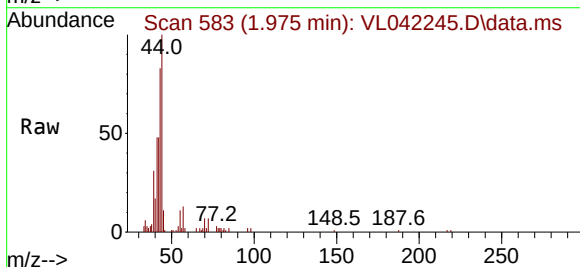
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

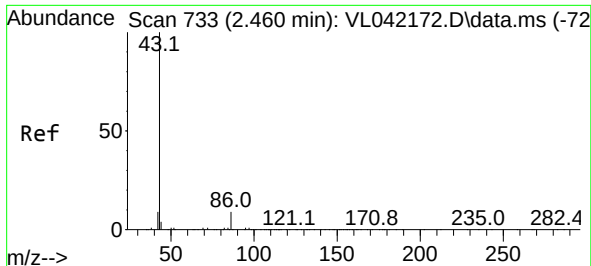
Tgt Ion:	84	Resp:	3195
Ion	Ratio	Lower	Upper
84	100		
49	151.1	120.2	180.4
51	49.6	37.4	56.0
86	48.8	52.4	78.6



#21
Allyl Chloride
Concen: 0.145 ppbv
RT: 1.975 min Scan# 583
Delta R.T. -0.116 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion:	41	Resp:	2742
Ion	Ratio	Lower	Upper
41	100		
76	1.5	24.1	36.1
39	0.0	61.1	91.7

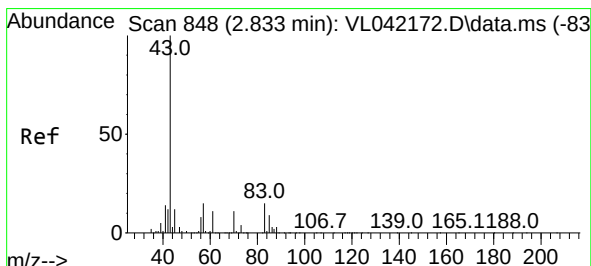
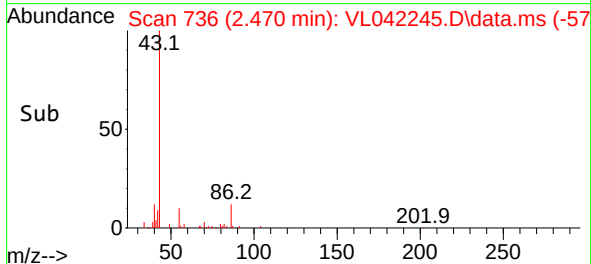
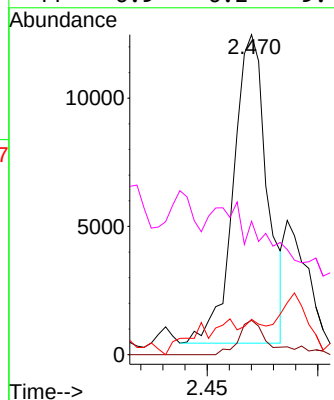
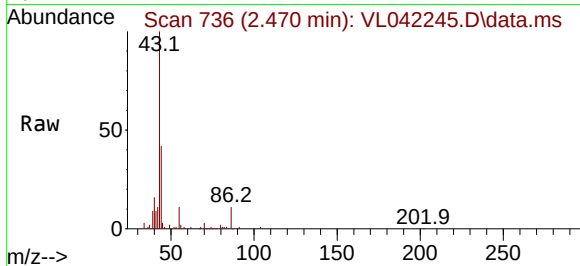




#23
 Vinyl Acetate
 Concen: 1.101 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

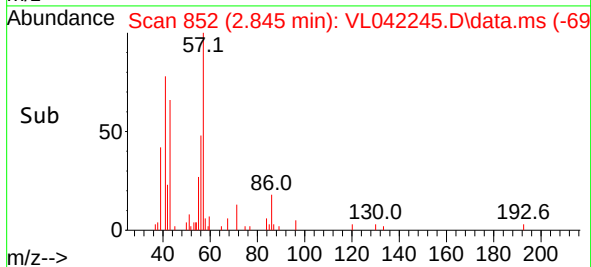
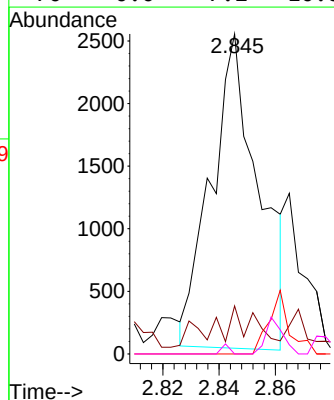
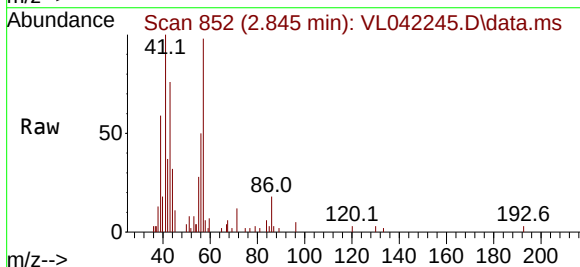
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-B14-3-04012025

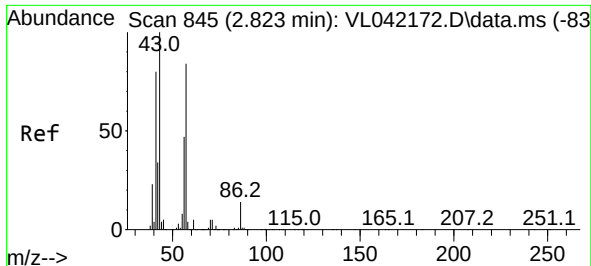
Tgt Ion:	43	Resp:	12740
Ion	Ratio	Lower	Upper
43	100		
86	11.2	5.5	8.3#
42	6.2	8.6	13.0#
44	6.9	6.2	9.4



#25
 Ethyl Acetate
 Concen: 0.042 ppbv
 RT: 2.845 min Scan# 852
 Delta R.T. 0.013 min
 Lab File: VL042245.D
 Acq: 07 Apr 2025 22:40

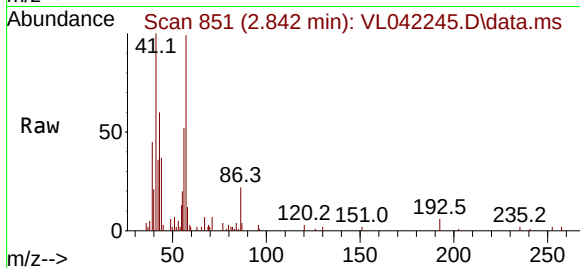
Tgt Ion:	43	Resp:	2924
Ion	Ratio	Lower	Upper
43	100		
45	29.8	8.2	12.2#
61	0.0	7.3	10.9#
70	0.0	7.2	10.8#



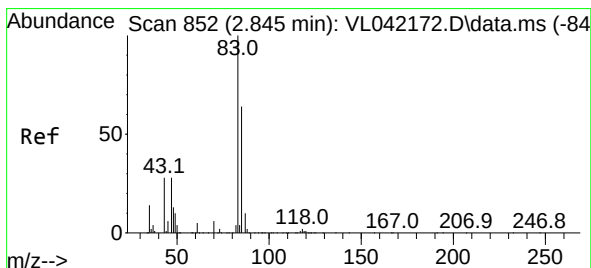
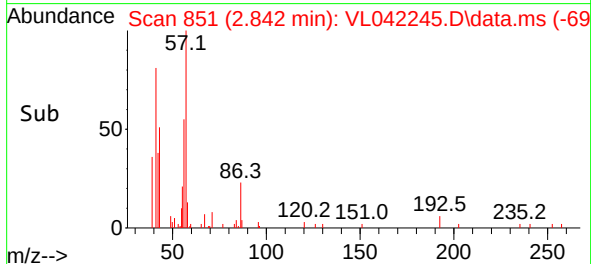
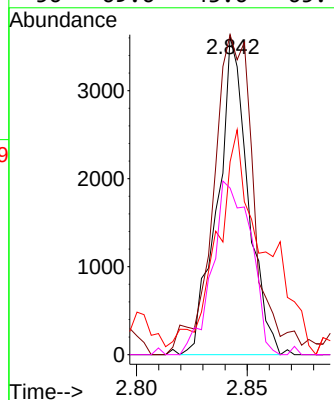


#26
Hexane
Concen: 0.130 ppbv
RT: 2.842 min Scan# 845
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

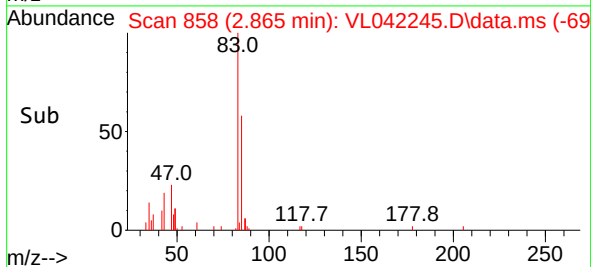
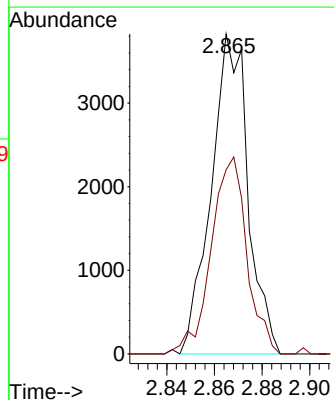
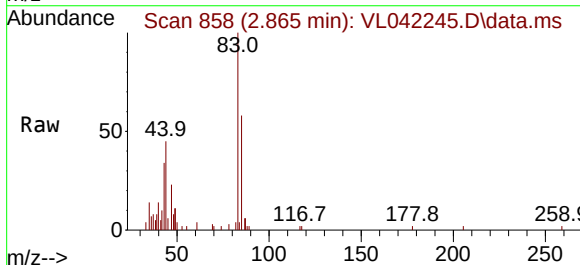


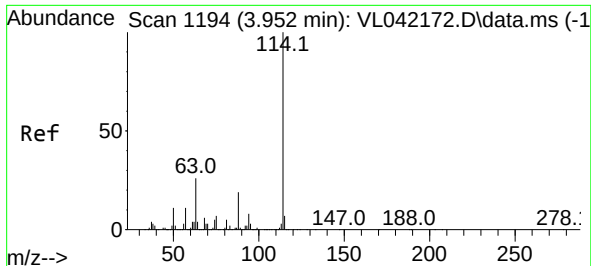
Tgt Ion: 57 Resp: 3476
Ion Ratio Lower Upper
57 100
41 138.7 76.6 114.8#
43 107.4 207.8 311.8#
56 69.6 43.6 65.4#



#29
Chloroform
Concen: 0.105 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 83 Resp: 4102
Ion Ratio Lower Upper
83 100
85 57.6 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1194

Delta R.T. 0.036 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025

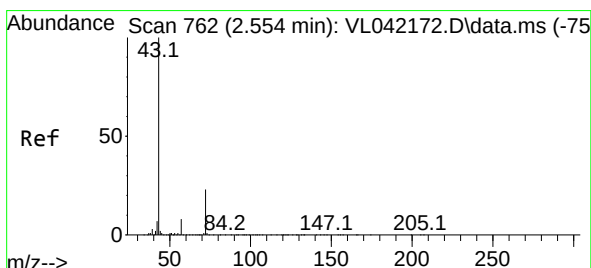
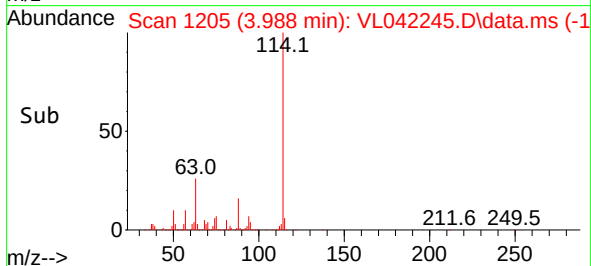
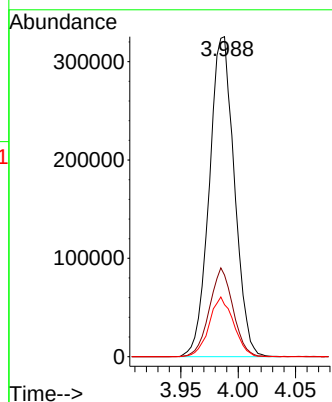
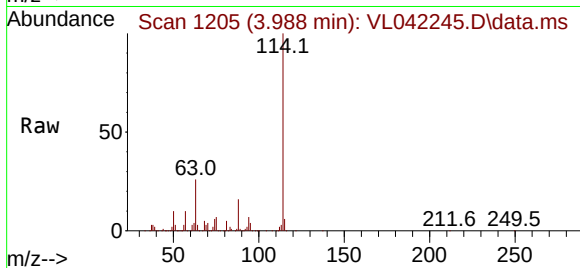
Tgt Ion:114 Resp: 493918

Ion Ratio Lower Upper

114 100

63 26.3 20.7 31.1

88 18.2 15.0 22.4



#34

2-Butanone

Concen: 0.358 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.023 min

Lab File: VL042245.D

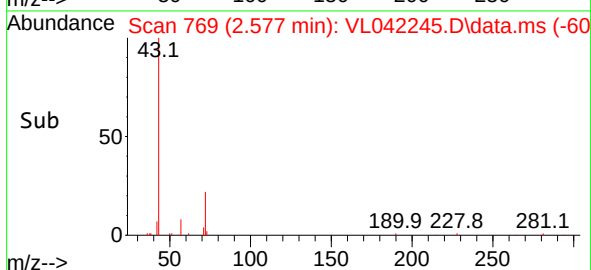
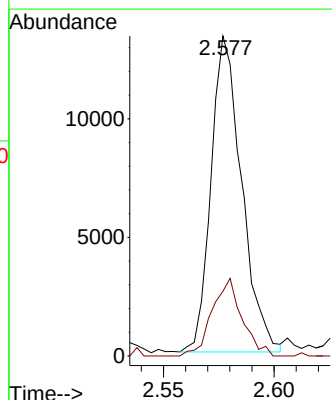
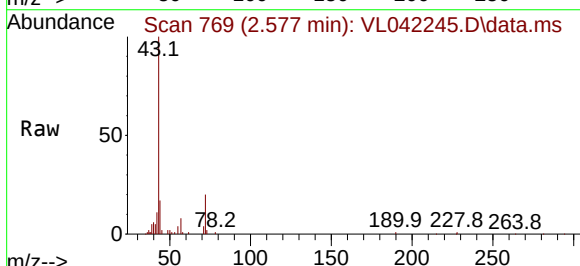
Acq: 07 Apr 2025 22:40

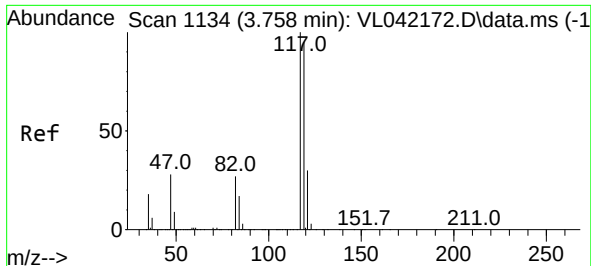
Tgt Ion: 43 Resp: 12837

Ion Ratio Lower Upper

43 100

72 24.0 18.2 27.2

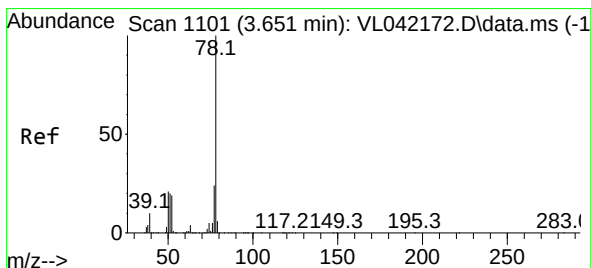
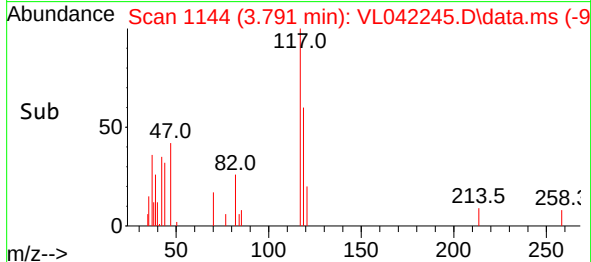
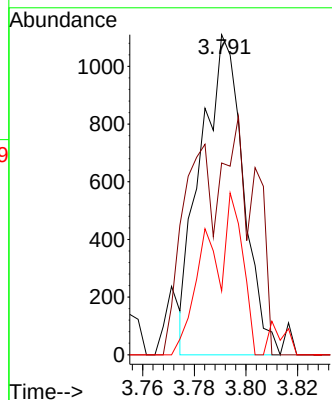
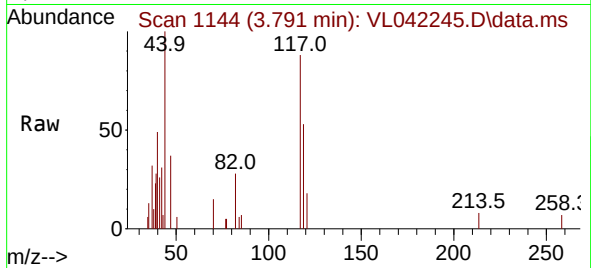




#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.791 min Scan# 1114
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

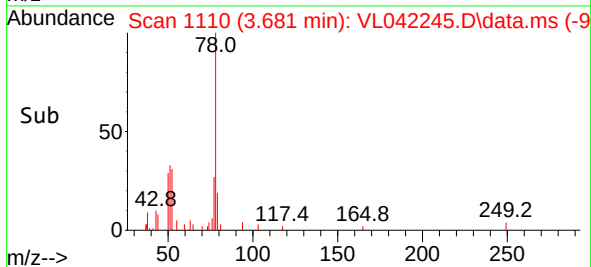
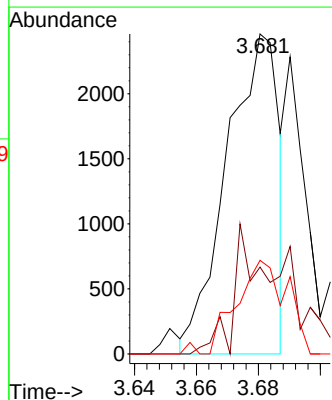
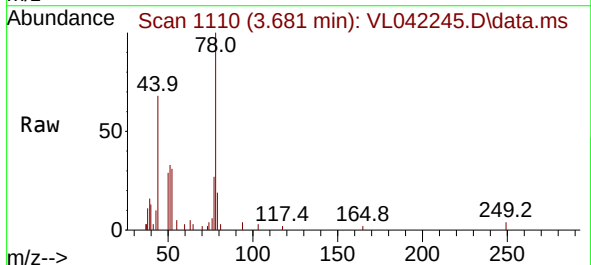
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

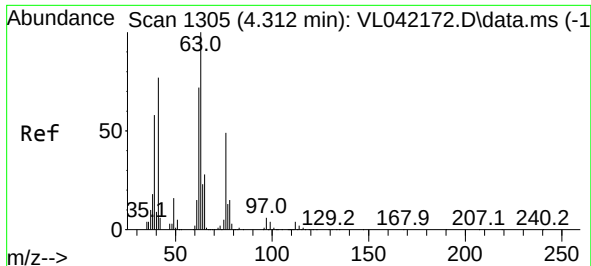
Tgt Ion:117 Resp: 1273
Ion Ratio Lower Upper
117 100
119 59.9 76.2 114.2#
121 15.4 24.2 36.4#



#36
Benzene
Concen: 0.058 ppbv
RT: 3.681 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 78 Resp: 2854
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7
50 30.7 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.248 ppbv

RT: 3.985 min Scan# 11

Delta R.T. -0.327 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025

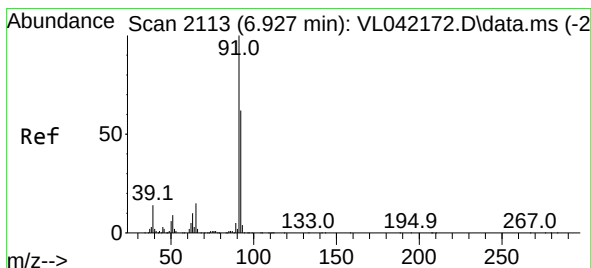
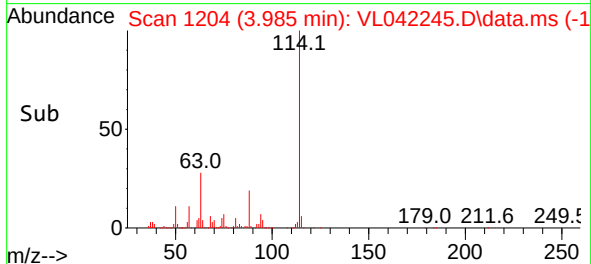
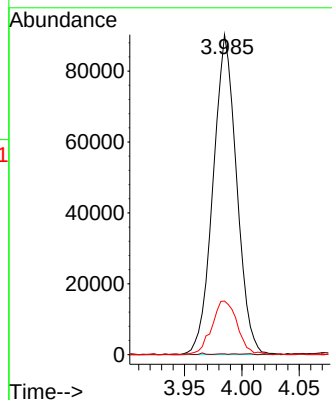
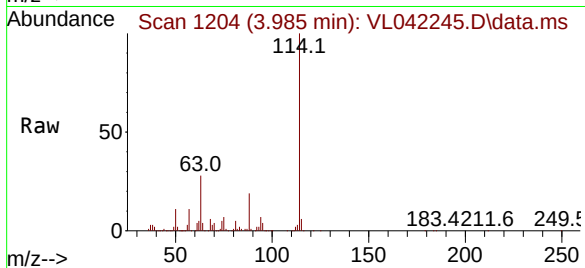
Tgt Ion: 63 Resp: 129244

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 16.8 57.6 86.4#



#53

Toluene

Concen: 0.384 ppbv

RT: 6.972 min Scan# 2127

Delta R.T. 0.045 min

Lab File: VL042245.D

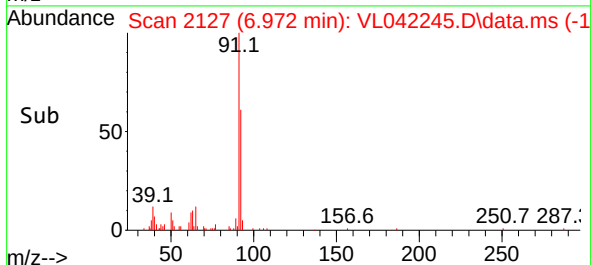
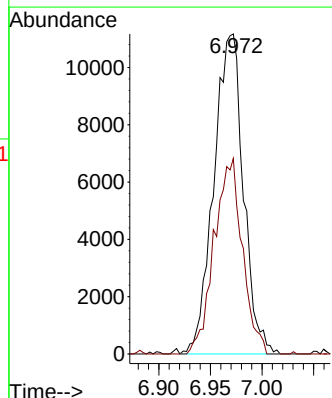
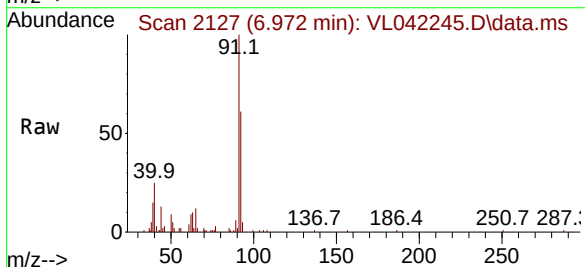
Acq: 07 Apr 2025 22:40

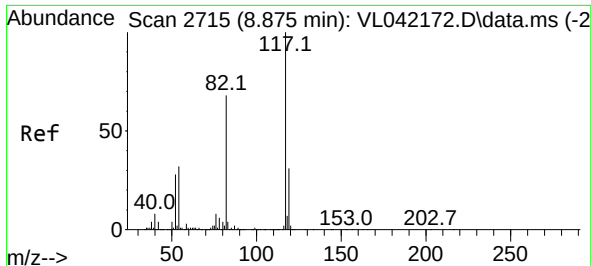
Tgt Ion: 91 Resp: 22311

Ion Ratio Lower Upper

91 100

92 57.9 48.4 72.6

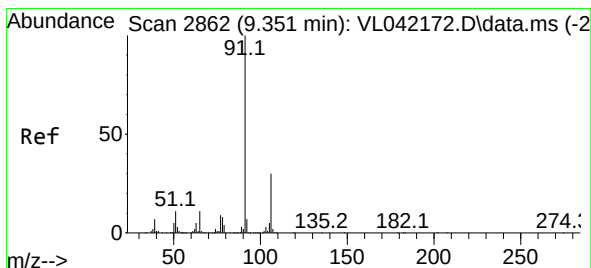
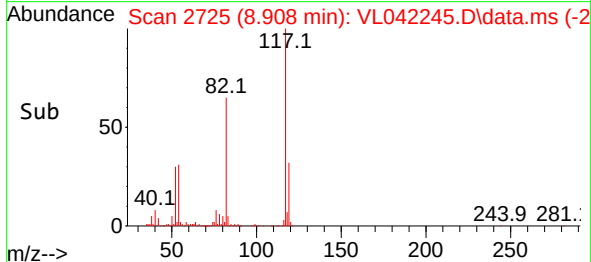
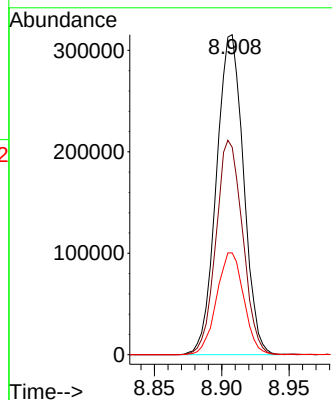
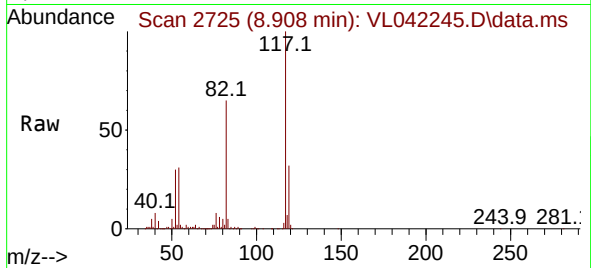




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

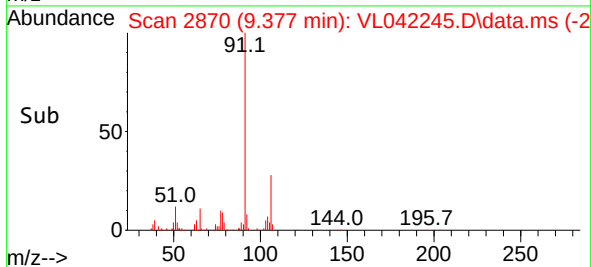
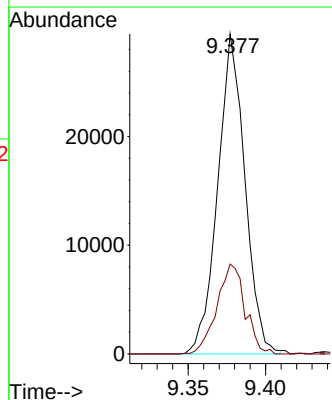
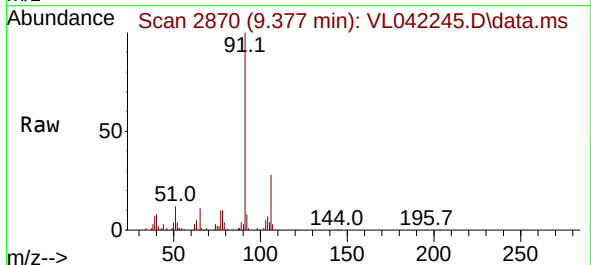
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-3-04012025

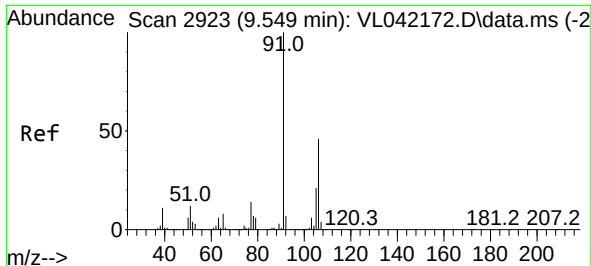
Tgt Ion:117 Resp: 441320
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 32.1 25.5 38.3



#58
Ethyl Benzene
Concen: 0.458 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.026 min
Lab File: VL042245.D
Acq: 07 Apr 2025 22:40

Tgt Ion: 91 Resp: 35929
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 2.006 ppbv

RT: 9.555 min Scan# 2925

Delta R.T. 0.007 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

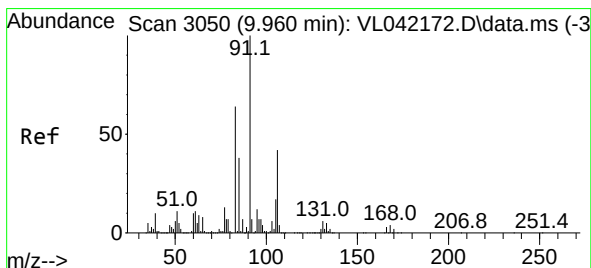
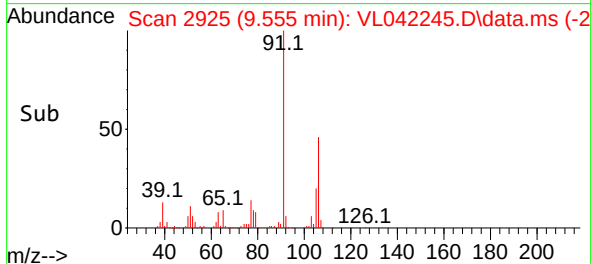
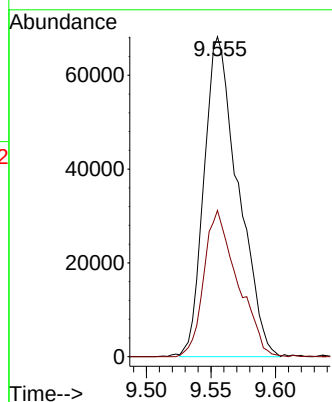
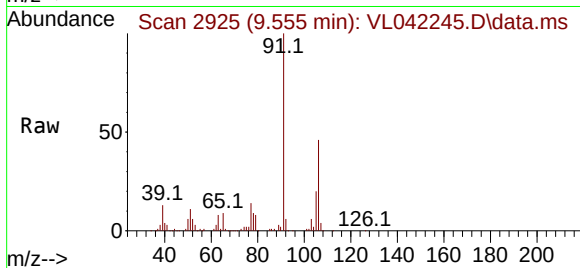
SSSG-B14-3-04012025

Tgt Ion: 91 Resp: 125540

Ion Ratio Lower Upper

91 100

106 45.2 36.4 54.6



#60

o-Xylene

Concen: 0.413 ppbv

RT: 9.986 min Scan# 3058

Delta R.T. 0.026 min

Lab File: VL042245.D

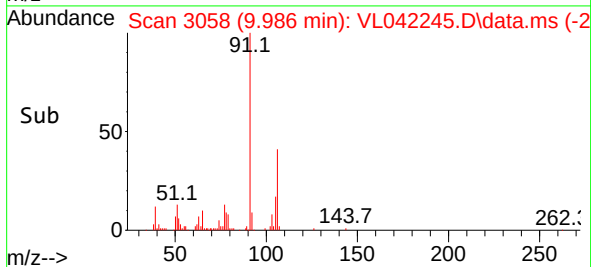
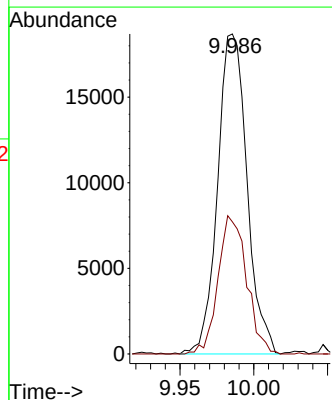
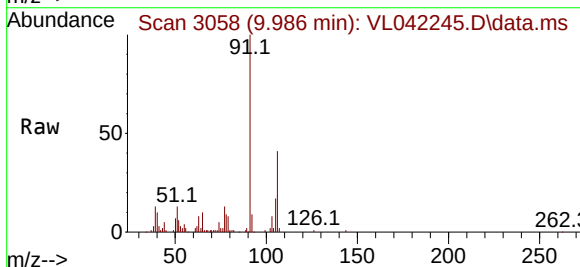
Acq: 07 Apr 2025 22:40

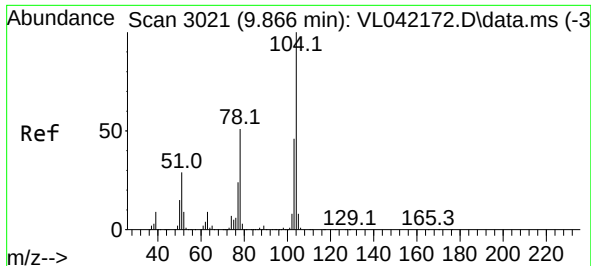
Tgt Ion: 91 Resp: 25937

Ion Ratio Lower Upper

91 100

106 41.9 20.8 62.5





#61

Styrene

Concen: 0.200 ppbv

RT: 9.895 min Scan# 3021

Delta R.T. 0.029 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B14-3-04012025

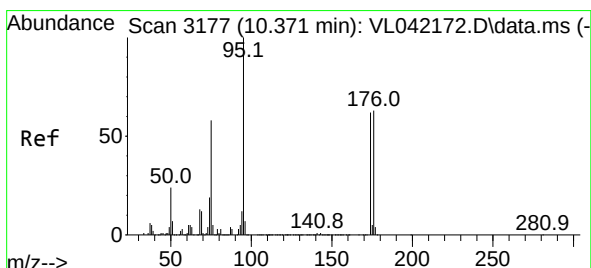
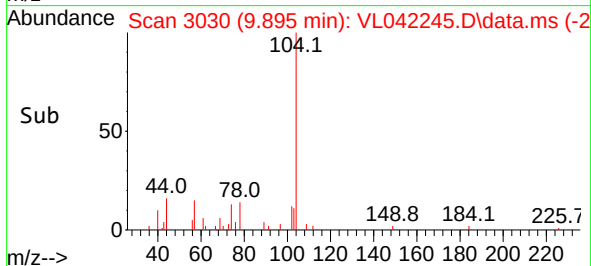
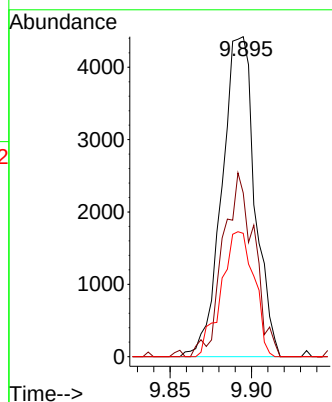
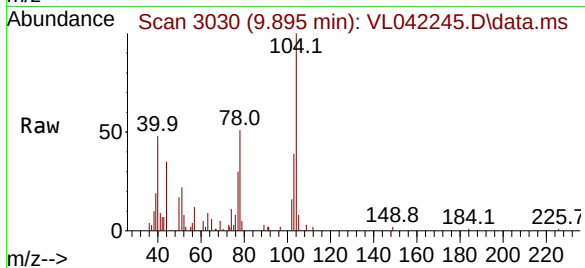
Tgt Ion:104 Resp: 6211

Ion Ratio Lower Upper

104 100

78 55.5 41.8 62.6

103 38.8 37.0 55.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.853 ppbv

RT: 10.397 min Scan# 3185

Delta R.T. 0.026 min

Lab File: VL042245.D

Acq: 07 Apr 2025 22:40

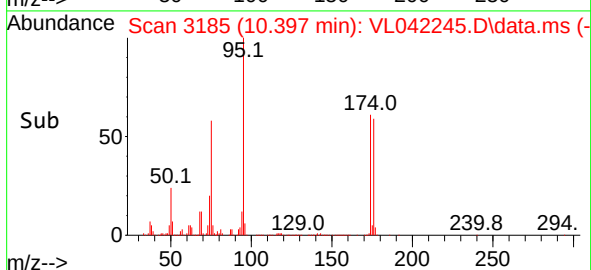
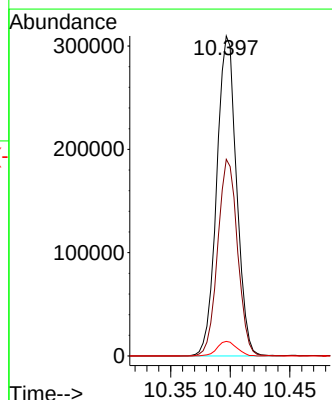
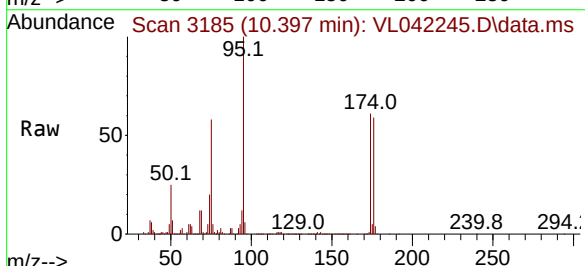
Tgt Ion: 95 Resp: 357099

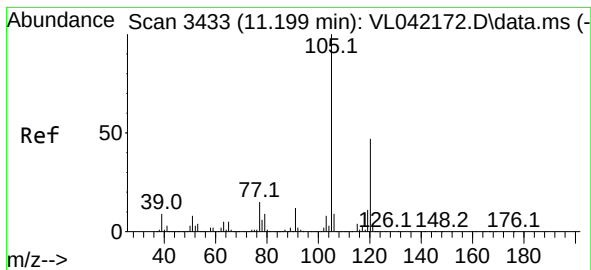
Ion Ratio Lower Upper

95 100

174 61.9 50.6 76.0

175 4.6 3.8 5.6





#73

1,3,5-Trimethylbenzene

Concen: 0.039 ppbv

RT: 11.219 min Scan# 34

Delta R.T. 0.019 min

Lab File: VL042245.D

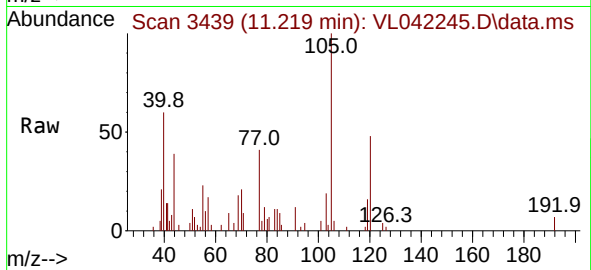
Acq: 07 Apr 2025 22:40

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-3-04012025



Tgt Ion:105 Resp: 2628

Ion Ratio Lower Upper

105 100

120 47.9 37.4 56.0

