

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042267.D
 Acq On : 08 Apr 2025 16:58
 Operator : SY/MD
 Sample : Q1728-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Apr 09 01:57:53 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)

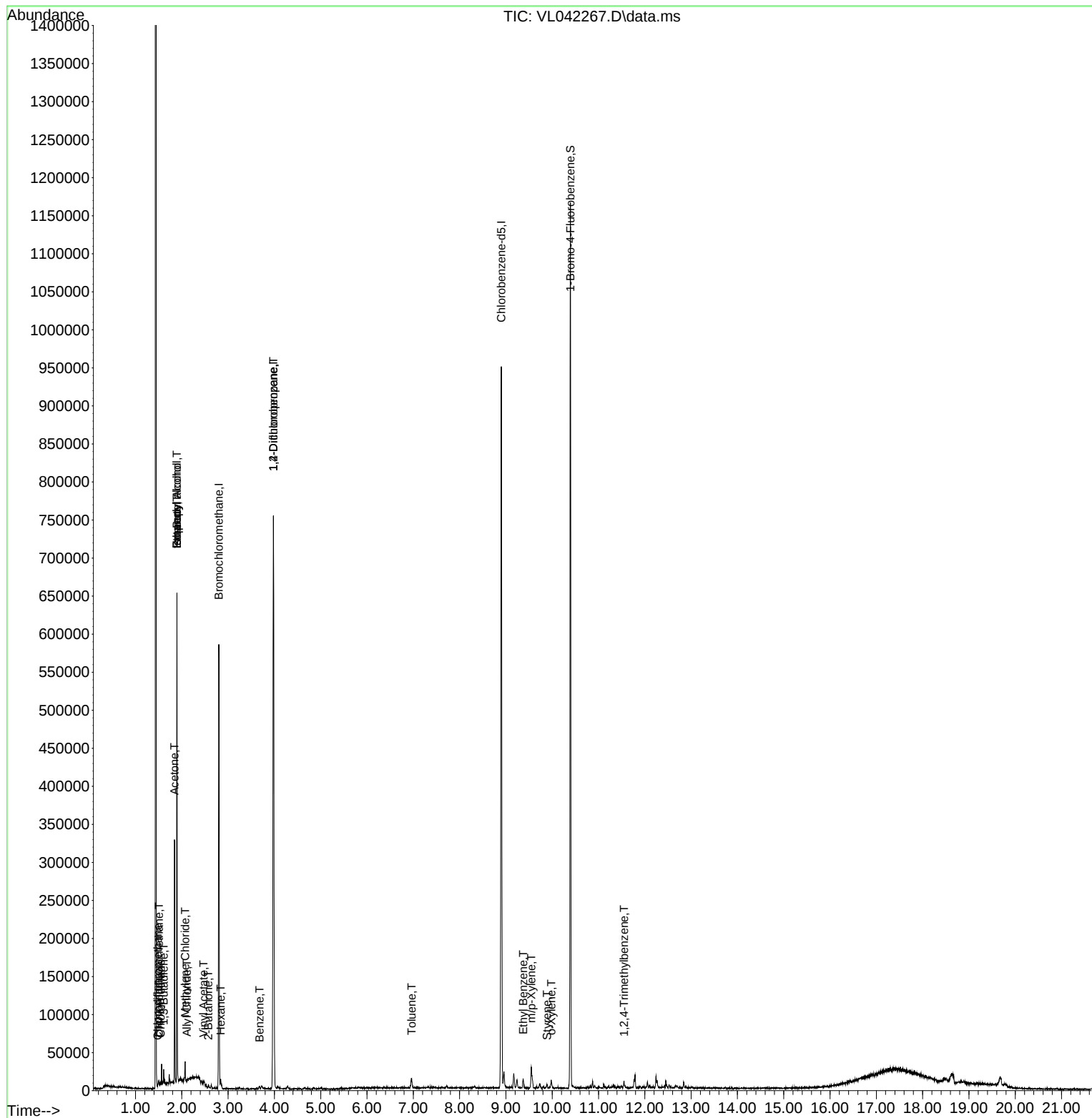
Internal Standards						
1) Bromochloromethane	2.800	49	162199	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	442538	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	374779	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	293027	9.521	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	927	0.039	ppbv #	56
3) Chlorodifluoromethane	1.483	51	894	0.037	ppbv #	71
4) Chloromethane	1.541	50	773	0.079	ppbv #	76
9) Propene	1.894	41	24148	2.153	ppbv	87
13) Ethanol	1.894	45	260805	246.028	ppbv #	31
15) Acetone	1.842	43	143227	6.314	ppbv	95
16) 1,3-Butadiene	1.609	39	1737	0.157	ppbv #	29
17) tert-Butyl alcohol	1.894	59	9905	0.351	ppbv	98
19) Isopropyl Alcohol	1.894	45	260805	20.377	ppbv #	32
20) Methylene Chloride	2.072	84	3668	0.434	ppbv #	94
21) Allyl Chloride	2.107	41	519	0.032	ppbv #	27
23) Vinyl Acetate	2.470	43	1449	0.148	ppbv #	87
26) Hexane	2.839	57	2560	0.113	ppbv #	36
34) 2-Butanone	2.573	43	3451	0.108	ppbv	99
36) Benzene	3.680	78	1725	0.039	ppbv	92
39) 1,2-Dichloropropane	3.978	63	112078	7.015	ppbv #	23
53) Toluene	6.965	91	3183	0.061	ppbv #	20
58) Ethyl Benzene	9.374	91	6254	0.094	ppbv	93
59) m/p-Xylene	9.548	91	16114	0.303	ppbv	89
60) o-Xylene	9.979	91	4532	0.085	ppbv	97
61) Styrene	9.888	104	1259	0.048	ppbv	89
74) 1,2,4-Trimethylbenzene	11.552	105	2593	0.039	ppbv #	67

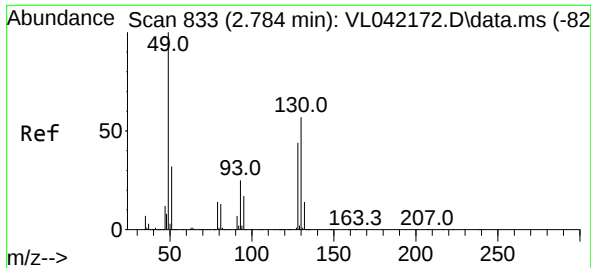
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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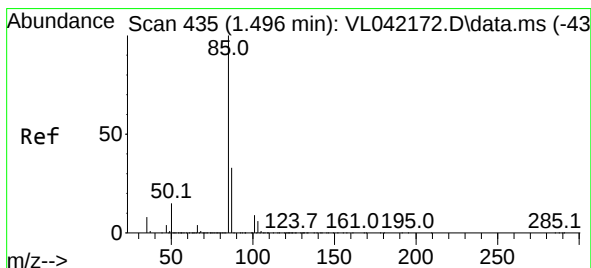
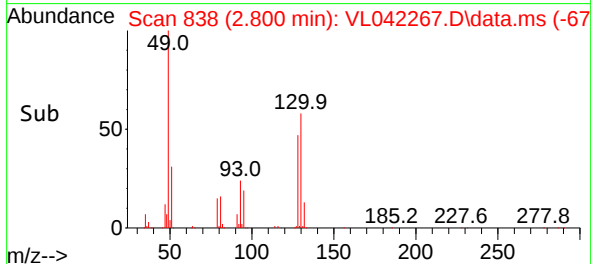
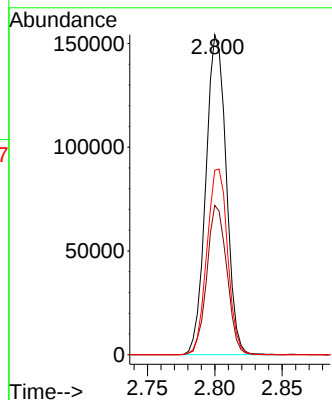
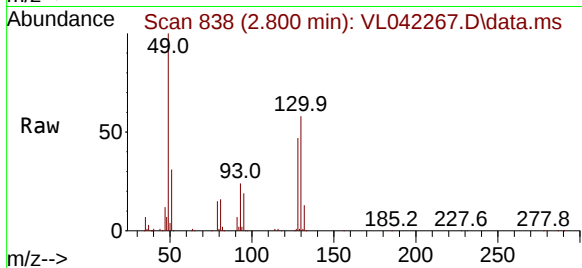




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

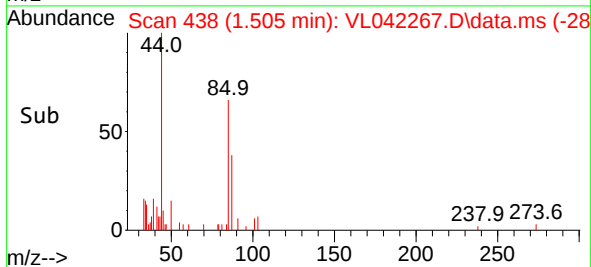
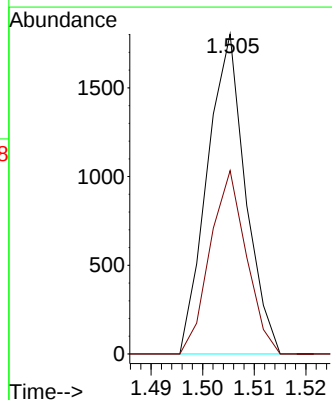
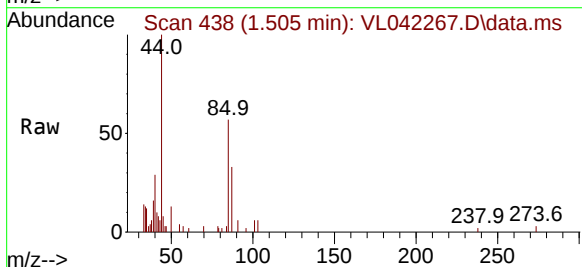
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

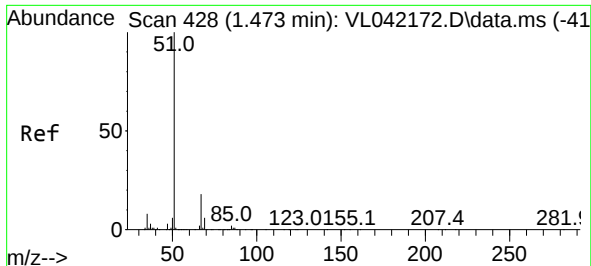
Tgt Ion: 49 Resp: 162199
Ion Ratio Lower Upper
49 100
128 45.9 22.9 68.5
130 59.1 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.039 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 85 Resp: 927
Ion Ratio Lower Upper
85 100
87 57.3 26.1 39.1#

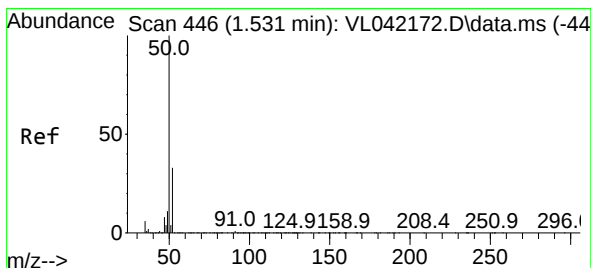
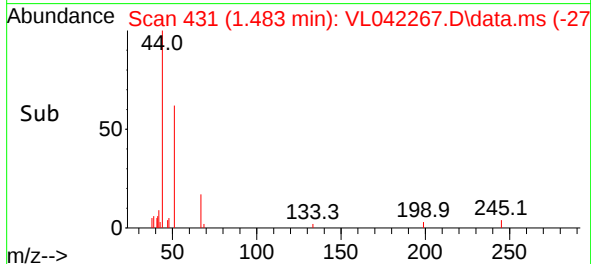
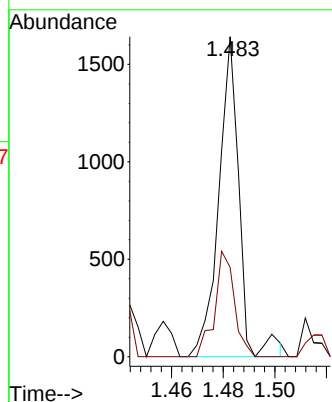
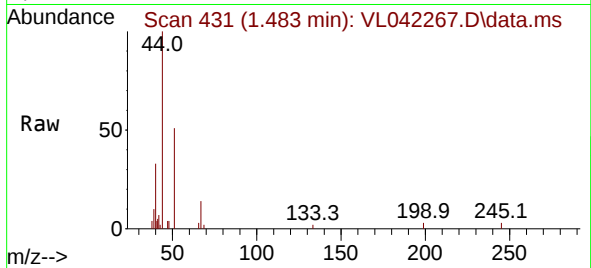




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

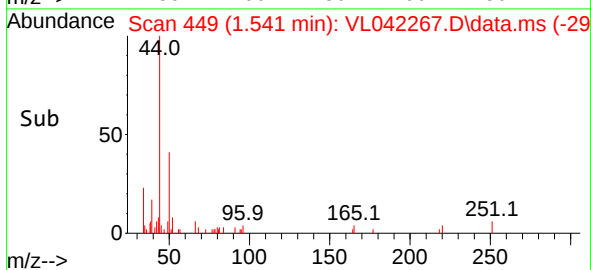
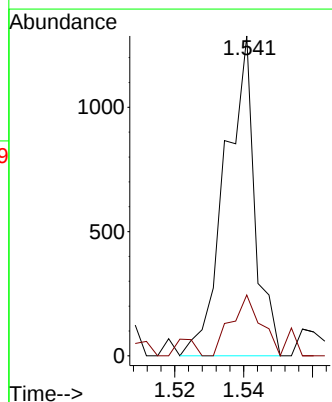
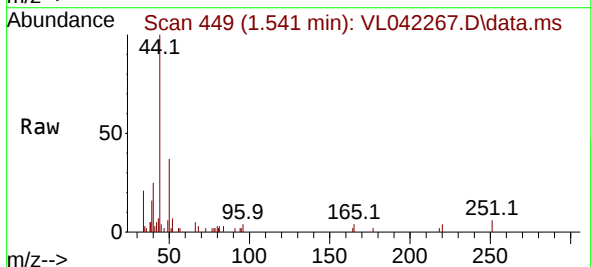
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

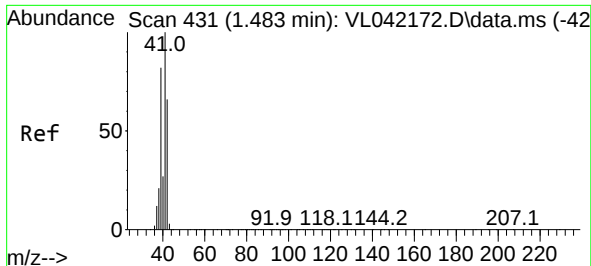
Tgt Ion: 51 Resp: 894
Ion Ratio Lower Upper
51 100
67 31.7 15.0 22.6#



#4
Chloromethane
Concen: 0.079 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 19.0 26.1 39.1#





#9

Propene

Concen: 2.153 ppbv

RT: 1.894 min Scan# 5

Delta R.T. 0.411 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

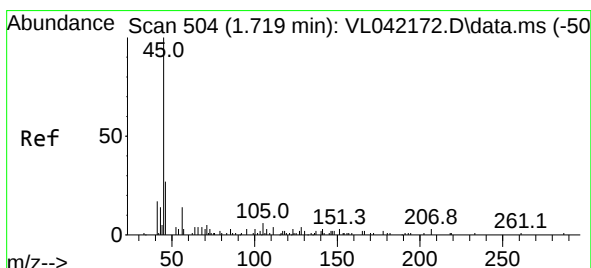
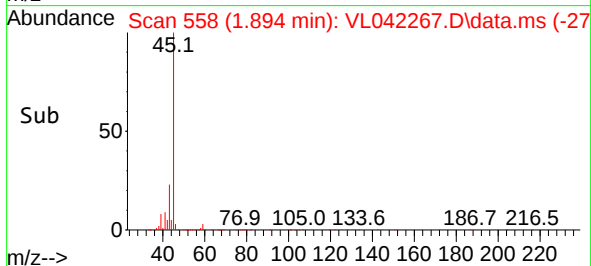
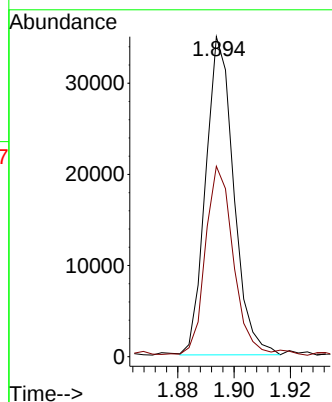
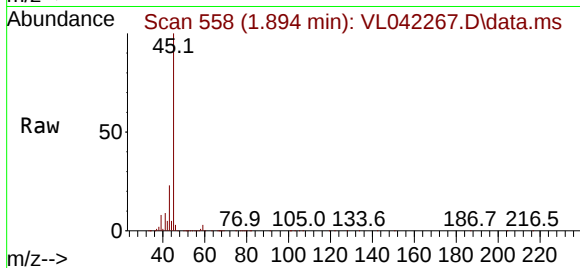
SSSG-B14-2-04012025DL

Tgt Ion: 41 Resp: 24148

Ion Ratio Lower Upper

41 100

42 58.7 55.4 83.2



#13

Ethanol

Concen: 246.028 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.175 min

Lab File: VL042267.D

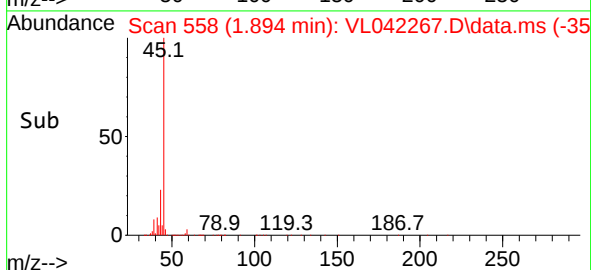
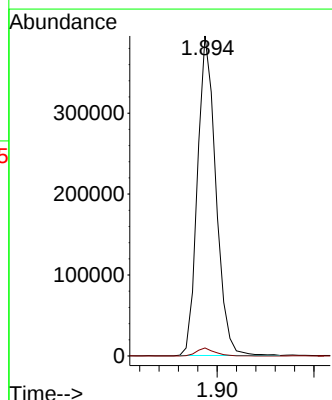
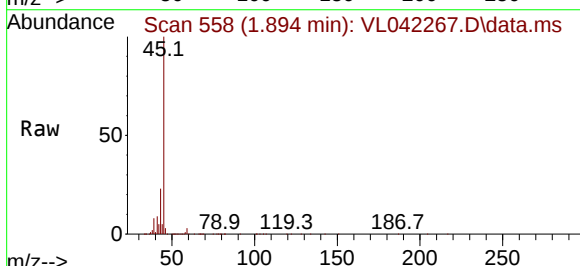
Acq: 08 Apr 2025 16:58

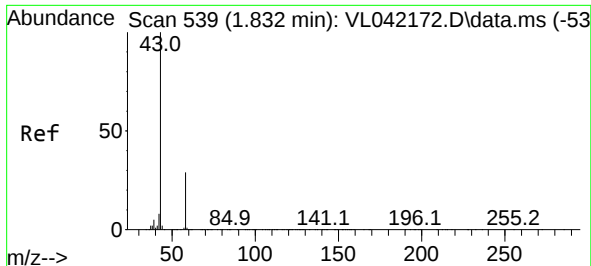
Tgt Ion: 45 Resp: 260805

Ion Ratio Lower Upper

45 100

46 2.5 20.2 80.8#





#15

Acetone

Concen: 6.314 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.010 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

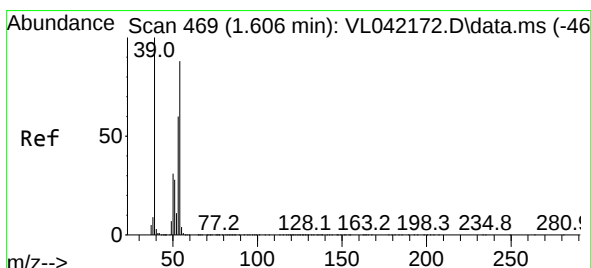
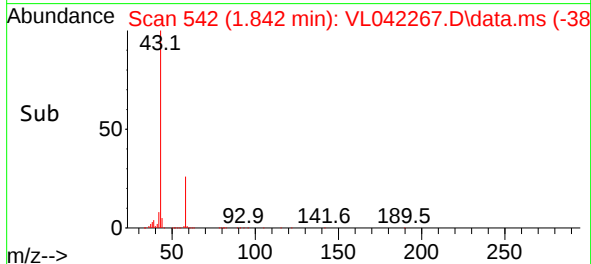
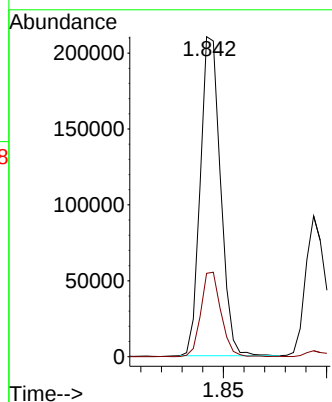
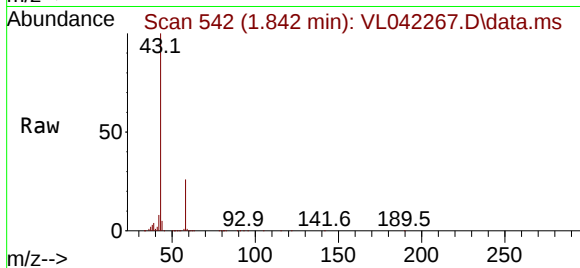
SSSG-B14-2-04012025DL

Tgt Ion: 43 Resp: 143227

Ion Ratio Lower Upper

43 100

58 26.5 23.2 34.8



#16

1,3-Butadiene

Concen: 0.157 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.003 min

Lab File: VL042267.D

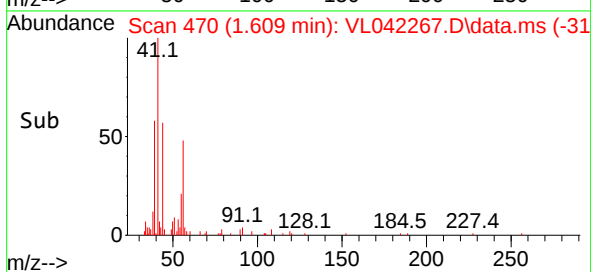
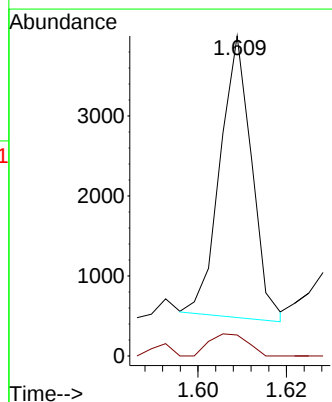
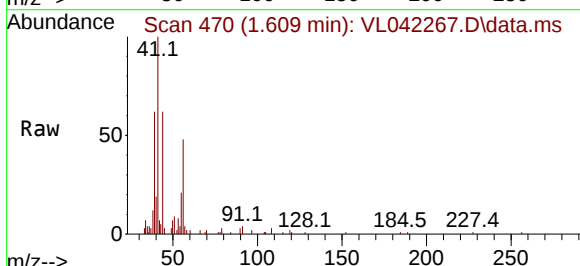
Acq: 08 Apr 2025 16:58

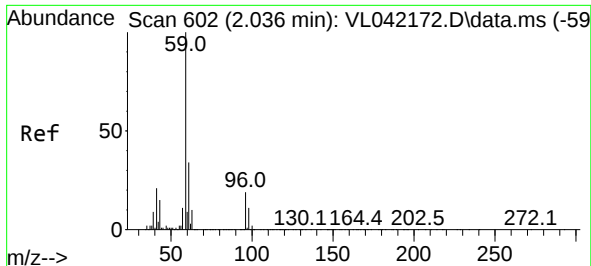
Tgt Ion: 39 Resp: 1737

Ion Ratio Lower Upper

39 100

54 15.4 60.7 91.1#

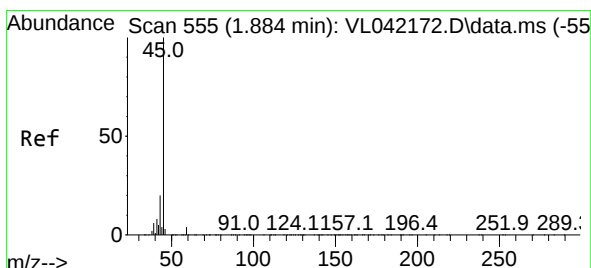
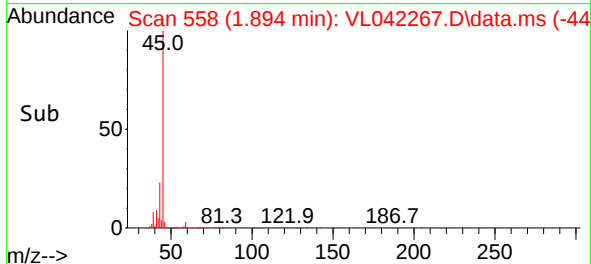
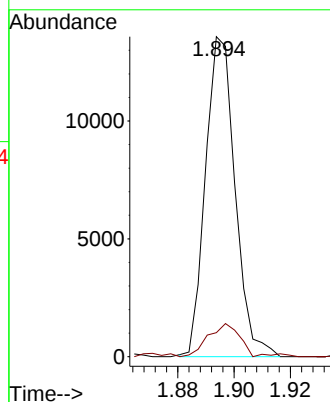
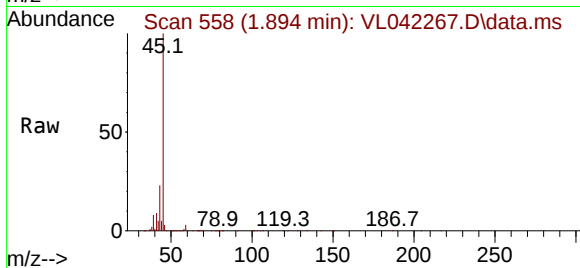




#17
tert-Butyl alcohol
Concen: 0.351 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.143 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

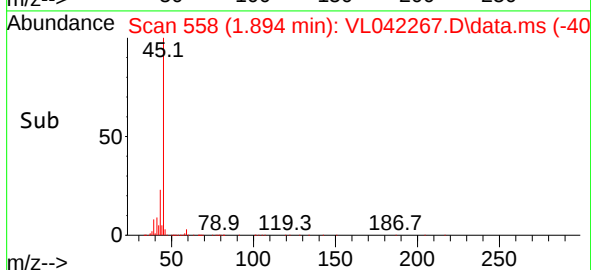
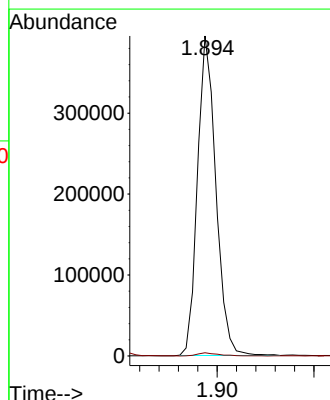
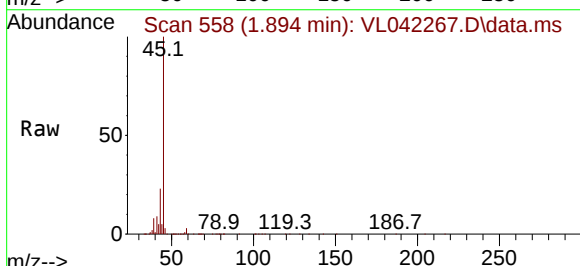
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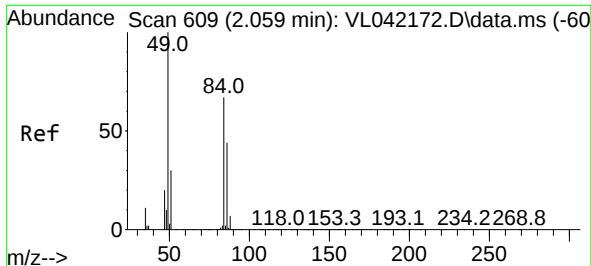
Tgt Ion: 59 Resp: 9905
Ion Ratio Lower Upper
59 100
57 11.7 8.9 13.3



#19
Isopropyl Alcohol
Concen: 20.377 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 45 Resp: 260805
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#





#20

Methylene Chloride

Concen: 0.434 ppbv

RT: 2.072 min Scan# 61

Delta R.T. 0.013 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025DL

Tgt Ion: 84 Resp: 3668

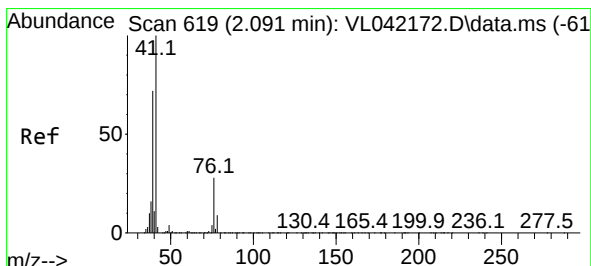
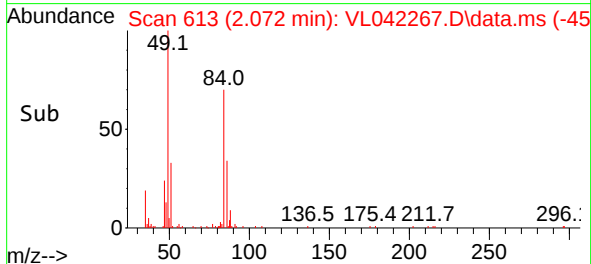
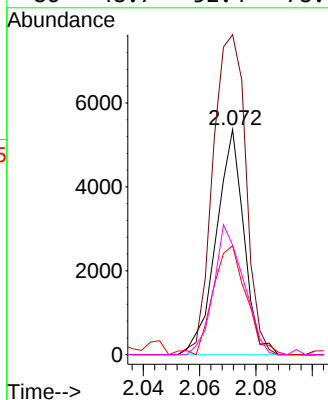
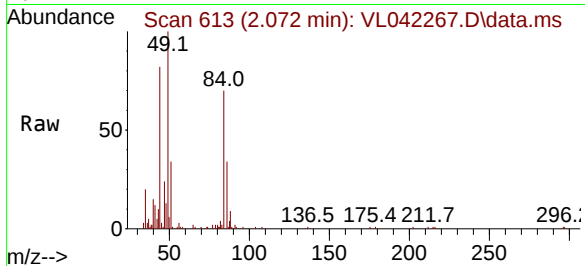
Ion Ratio Lower Upper

84 100

49 150.8 120.2 180.4

51 47.2 37.4 56.0

86 48.7 52.4 78.6#



#21

Allyl Chloride

Concen: 0.032 ppbv

RT: 2.107 min Scan# 624

Delta R.T. 0.016 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

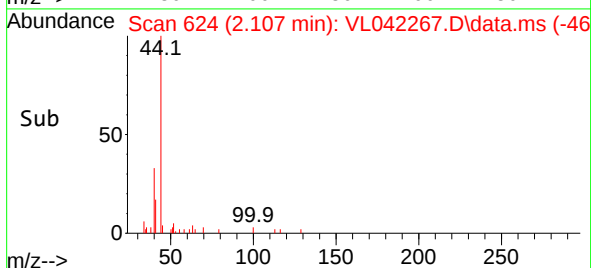
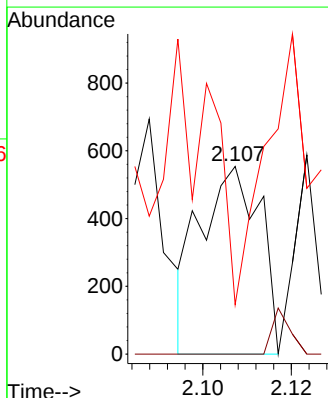
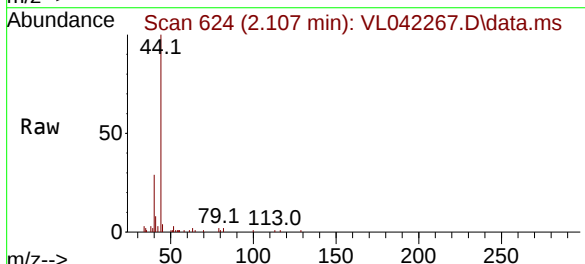
Tgt Ion: 41 Resp: 519

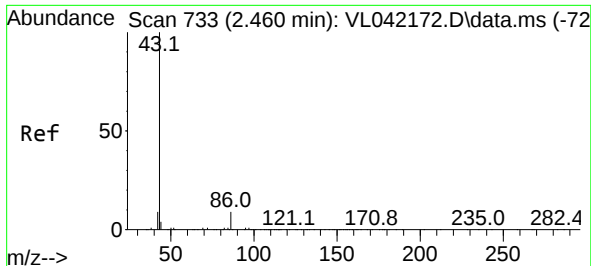
Ion Ratio Lower Upper

41 100

76 12.1 24.1 36.1#

39 0.0 61.1 91.7#

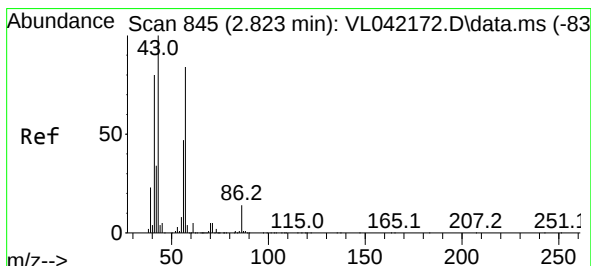
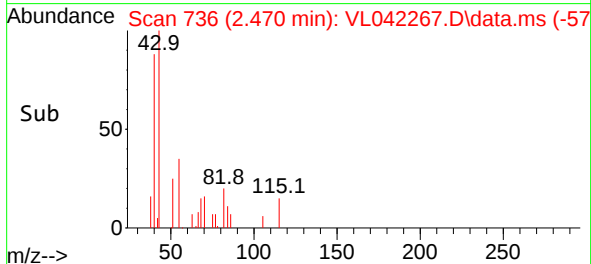
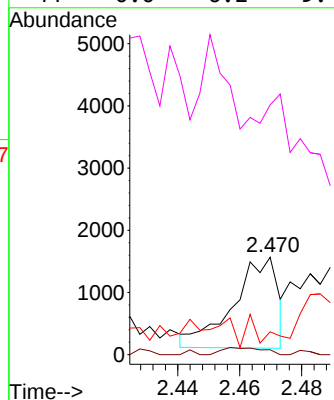
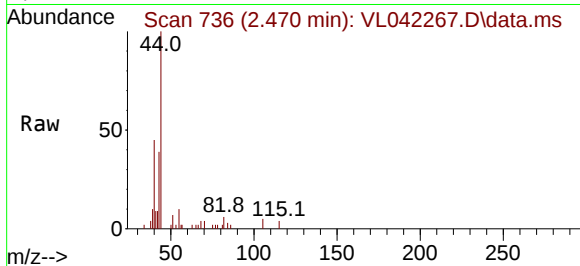




#23
 Vinyl Acetate
 Concen: 0.148 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042267.D
 Acq: 08 Apr 2025 16:58

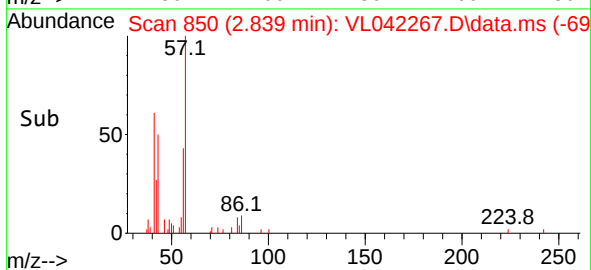
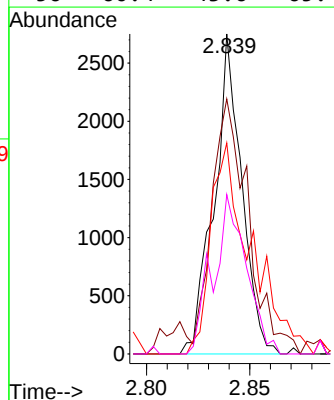
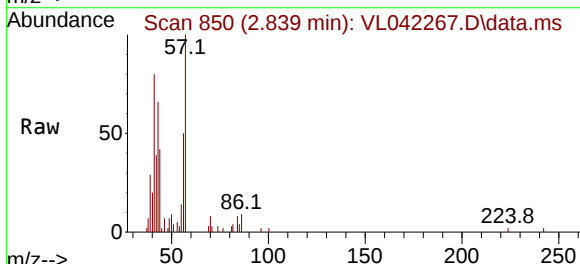
Instrument :
 MSVOA_L
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 SSSG-B14-2-04012025DL

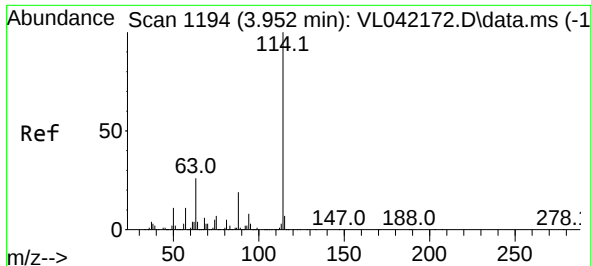
Tgt Ion: 43	Resp: 1449
Ion Ratio	Lower Upper
43 100	
86 6.5	5.5 8.3
42 5.4	8.6 13.0#
44 0.0	6.2 9.4#



#26
 Hexane
 Concen: 0.113 ppbv
 RT: 2.839 min Scan# 850
 Delta R.T. 0.016 min
 Lab File: VL042267.D
 Acq: 08 Apr 2025 16:58

Tgt Ion: 57	Resp: 2560
Ion Ratio	Lower Upper
57 100	
41 116.8	76.6 114.8#
43 97.3	207.8 311.8#
56 60.4	43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1194

Delta R.T. 0.026 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025DL

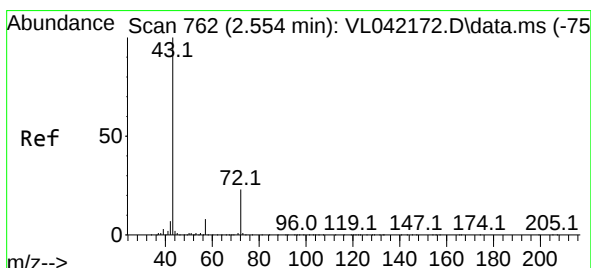
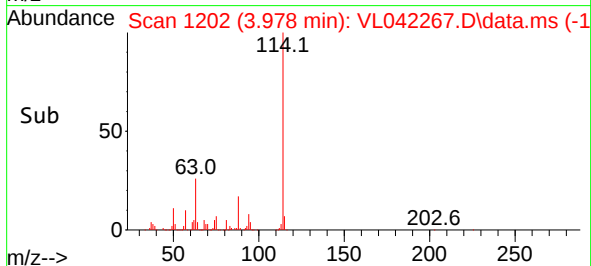
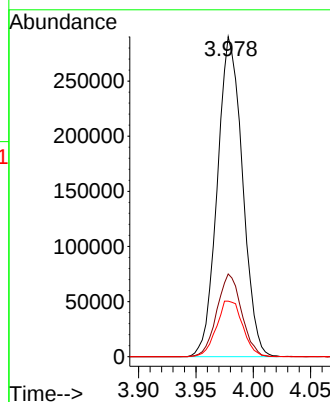
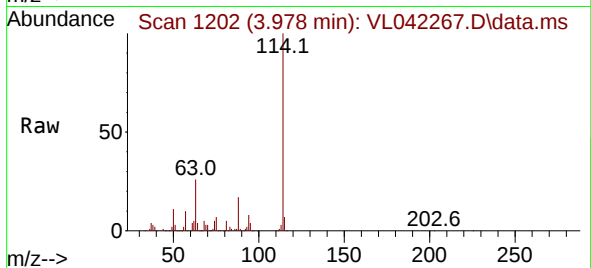
Tgt Ion:114 Resp: 442538

Ion Ratio Lower Upper

114 100

63 25.4 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.108 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.019 min

Lab File: VL042267.D

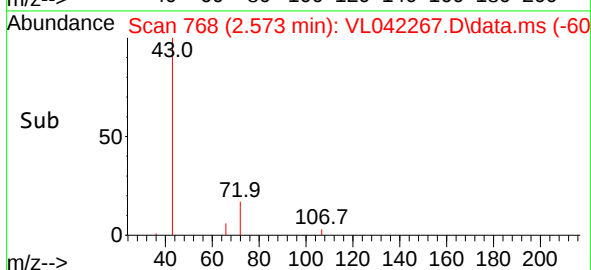
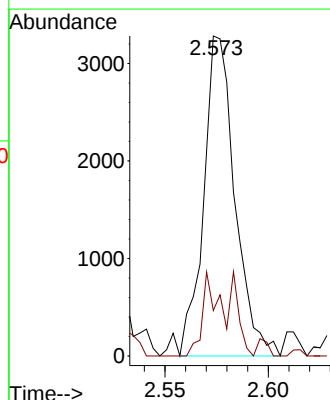
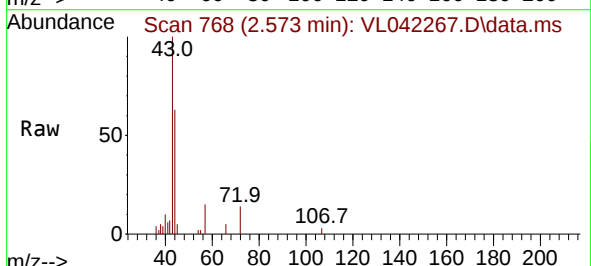
Acq: 08 Apr 2025 16:58

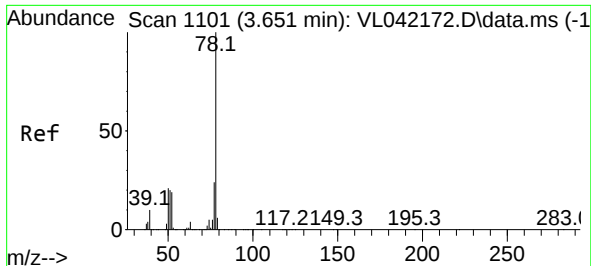
Tgt Ion: 43 Resp: 3451

Ion Ratio Lower Upper

43 100

72 23.2 18.2 27.2

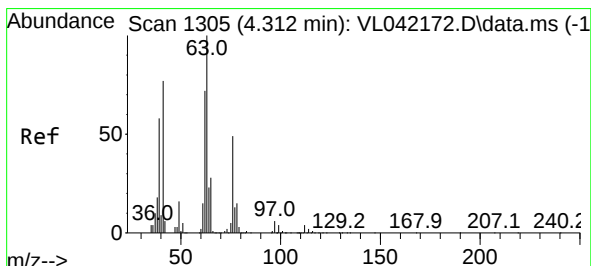
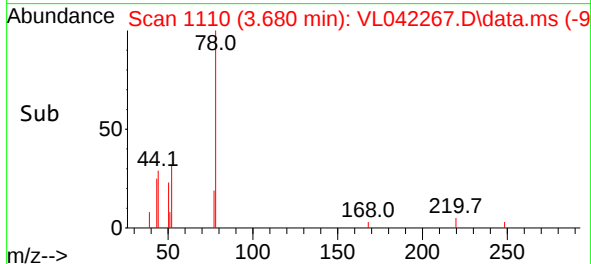
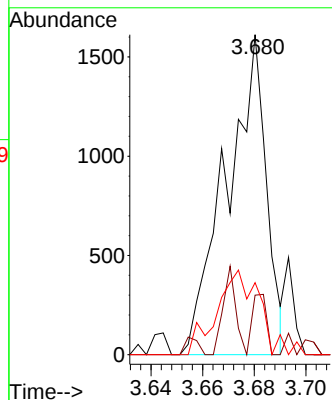
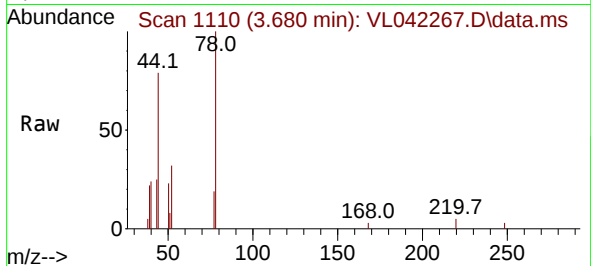




#36
Benzene
Concen: 0.039 ppbv
RT: 3.680 min Scan# 1101
Delta R.T. 0.029 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

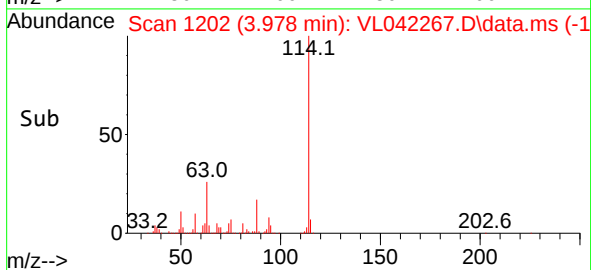
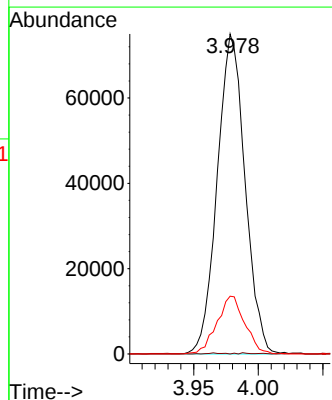
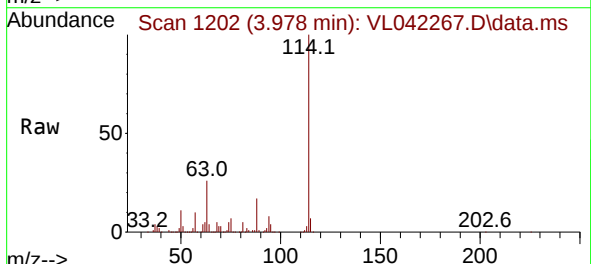
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

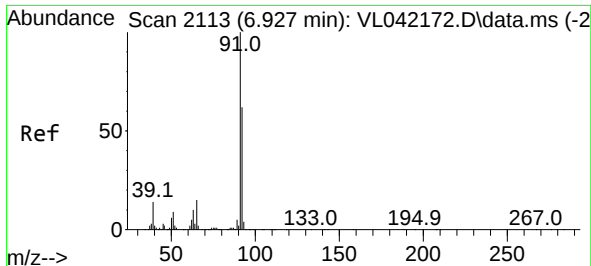
Tgt Ion: 78 Resp: 1725
Ion Ratio Lower Upper
78 100
77 20.0 19.1 28.7
50 24.2 16.6 24.8



#39
1,2-Dichloropropane
Concen: 7.015 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.334 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 63 Resp: 112078
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 18.1 57.6 86.4#

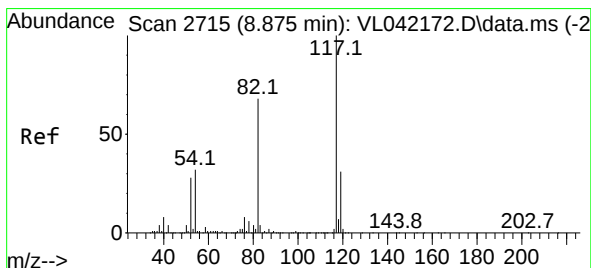
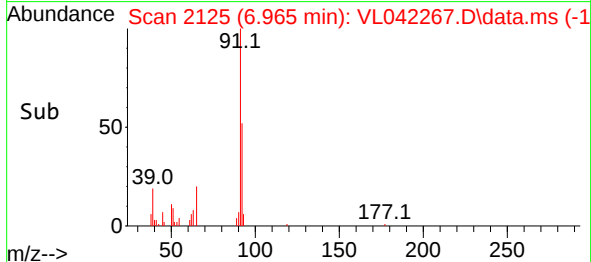
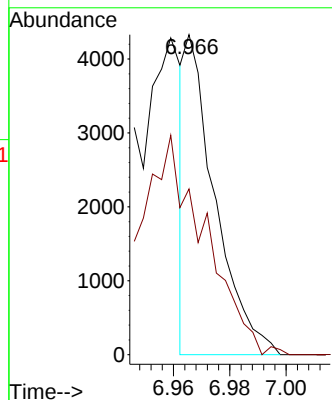
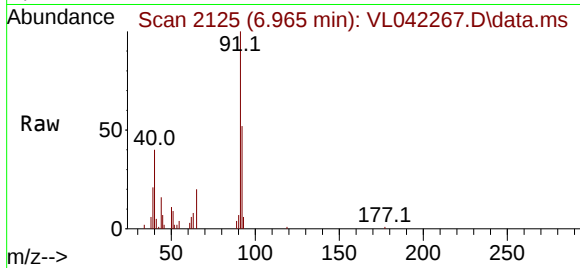




#53
Toluene
Concen: 0.061 ppbv
RT: 6.965 min Scan# 2113
Delta R.T. 0.039 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

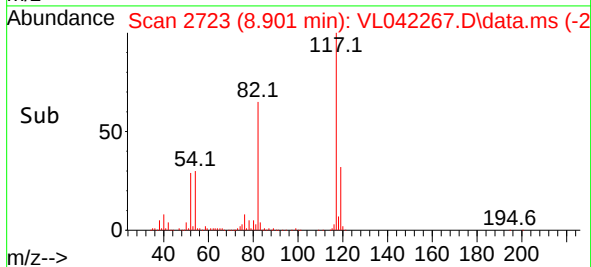
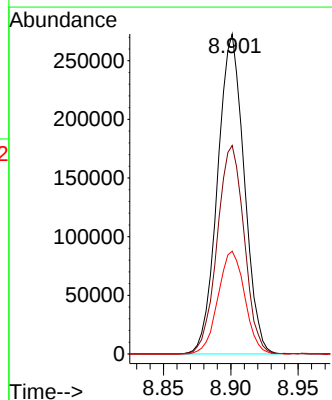
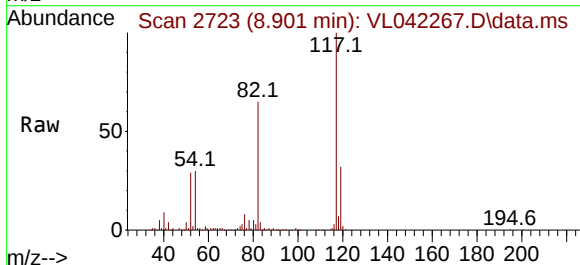
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

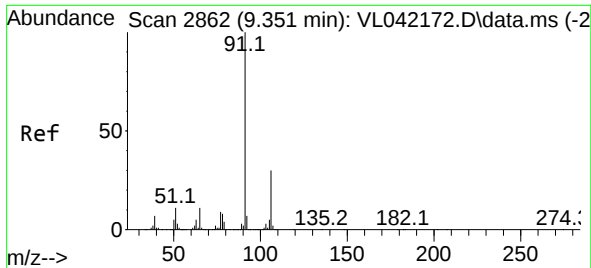
Tgt Ion: 91 Resp: 3183
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 117 Resp: 374779
Ion Ratio Lower Upper
117 100
82 66.2 55.8 83.6
119 32.3 25.5 38.3





#58

Ethyl Benzene

Concen: 0.094 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.022 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

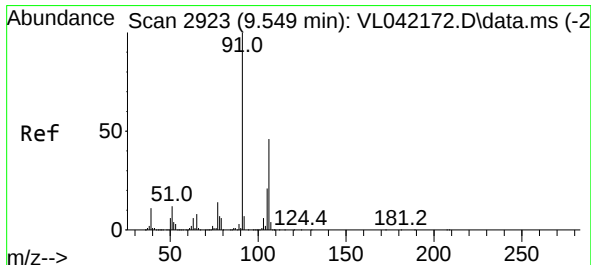
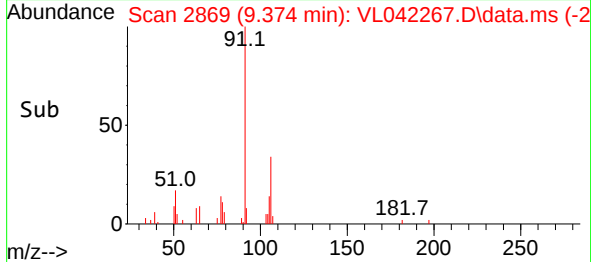
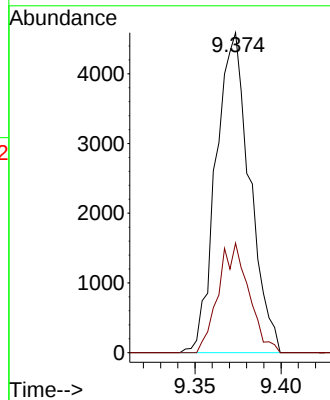
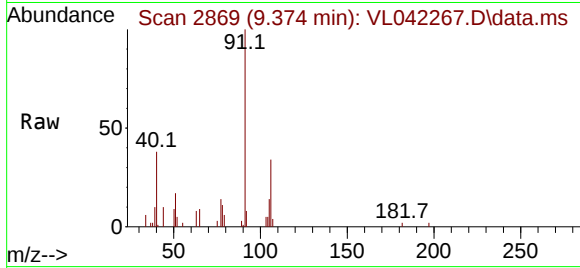
SSSG-B14-2-04012025DL

Tgt Ion: 91 Resp: 6254

Ion Ratio Lower Upper

91 100

106 34.2 24.2 36.2



#59

m/p-Xylene

Concen: 0.303 ppbv

RT: 9.548 min Scan# 2923

Delta R.T. -0.000 min

Lab File: VL042267.D

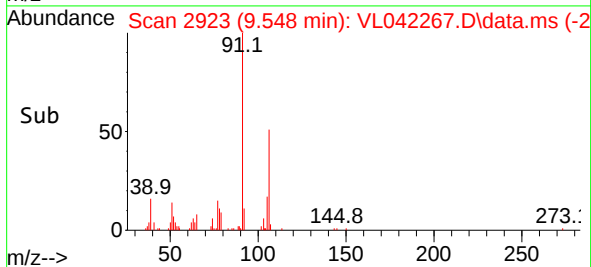
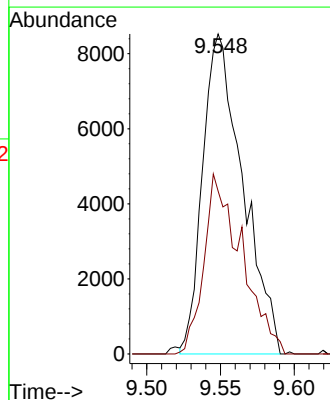
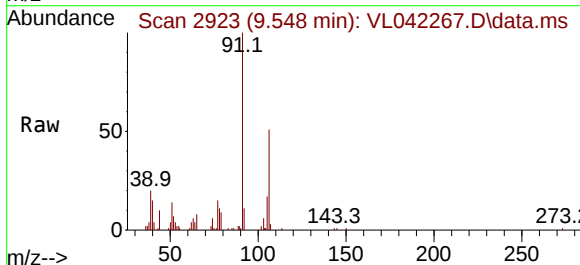
Acq: 08 Apr 2025 16:58

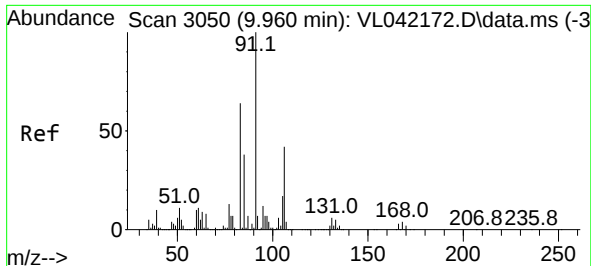
Tgt Ion: 91 Resp: 16114

Ion Ratio Lower Upper

91 100

106 52.6 36.4 54.6

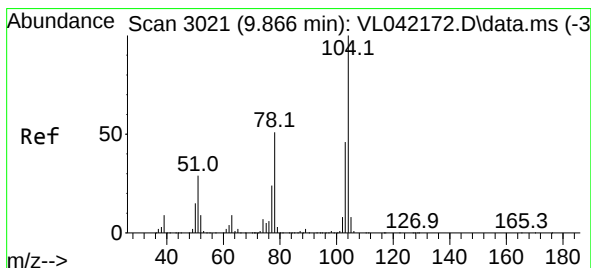
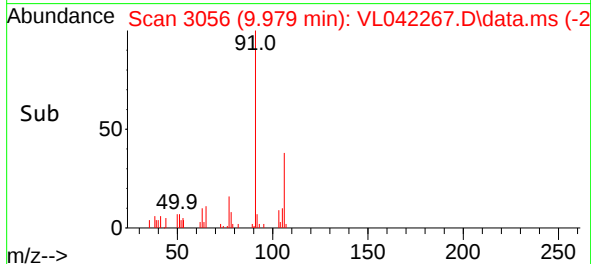
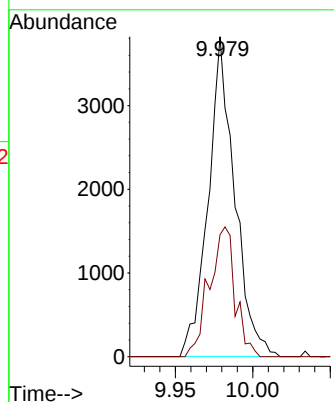
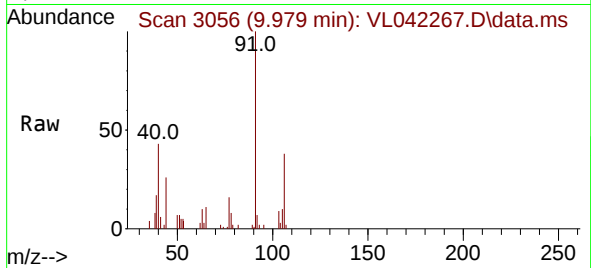




#60
o-Xylene
Concen: 0.085 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.019 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

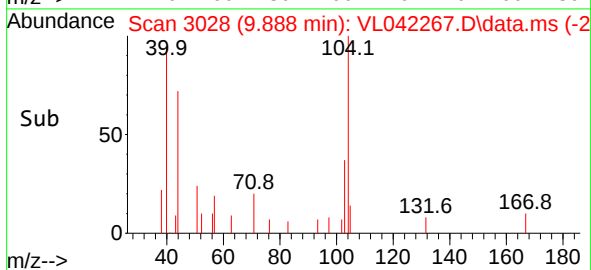
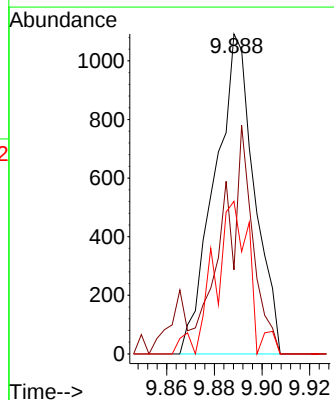
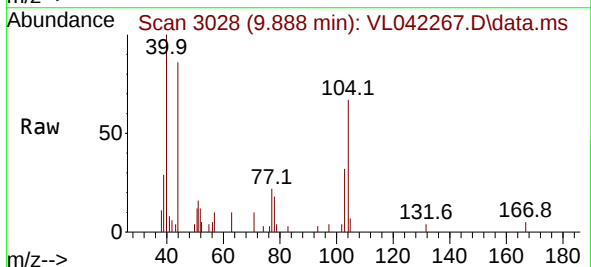
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B14-2-04012025DL

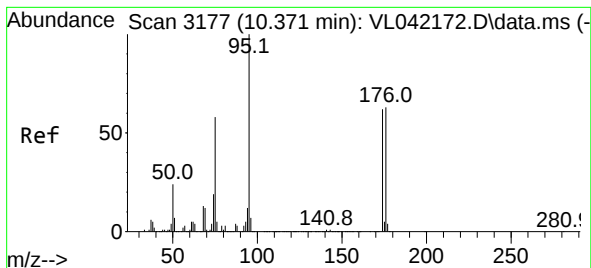
Tgt Ion: 91 Resp: 4532
Ion Ratio Lower Upper
91 100
106 39.6 20.8 62.5



#61
Styrene
Concen: 0.048 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.022 min
Lab File: VL042267.D
Acq: 08 Apr 2025 16:58

Tgt Ion: 104 Resp: 1259
Ion Ratio Lower Upper
104 100
78 62.4 41.8 62.6
103 42.2 37.0 55.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.521 ppbv

RT: 10.393 min Scan# 3177

Delta R.T. 0.022 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B14-2-04012025DL

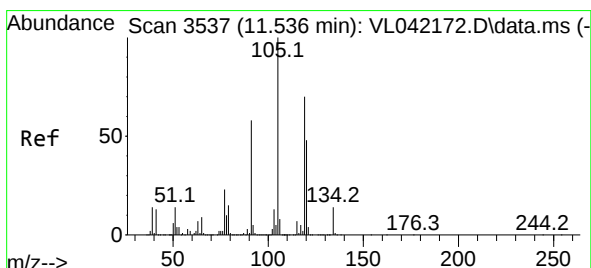
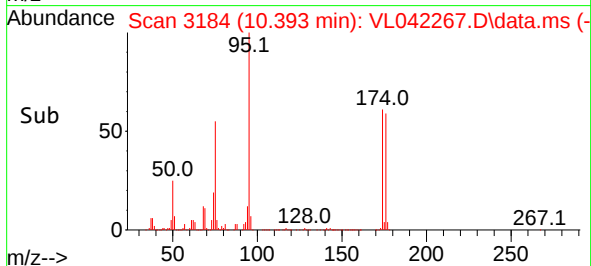
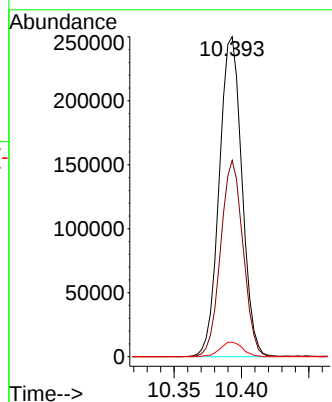
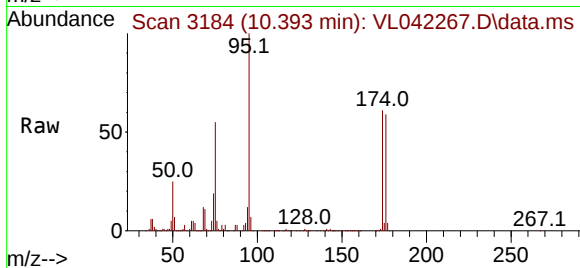
Tgt Ion: 95 Resp: 293027

Ion Ratio Lower Upper

95 100

174 60.8 50.6 76.0

175 4.6 3.8 5.6



#74

1,2,4-Trimethylbenzene

Concen: 0.039 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.016 min

Lab File: VL042267.D

Acq: 08 Apr 2025 16:58

Tgt Ion: 105 Resp: 2593

Ion Ratio Lower Upper

105 100

120 43.7 38.6 58.0

91 9.4 46.2 69.2#

77 19.6 18.6 27.8

