

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042262.D
 Acq On : 08 Apr 2025 14:22
 Operator : SY/MD
 Sample : Q1728-07 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025

Quant Time: Apr 09 01:55:36 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)

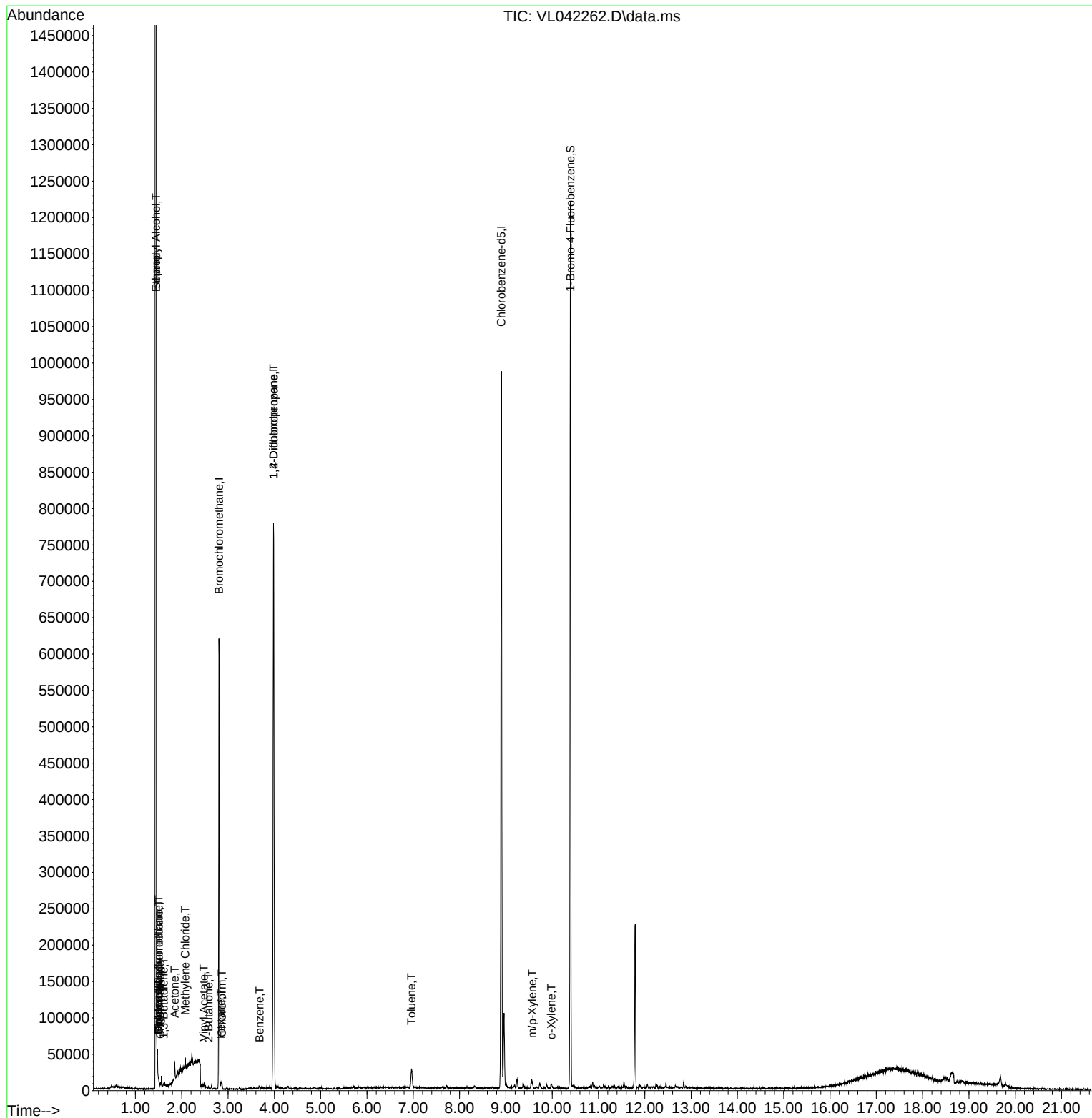
Internal Standards						
1) Bromochloromethane	2.804	49	169273	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.982	114	465061	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	397048	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	305487	9.369	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1231	0.049	ppbv	97
4) Chloromethane	1.538	50	309	0.030	ppbv #	42
7) Chloroethane	1.499	64	186	0.045	ppbv #	43
8) Dichlorotetrafluoroethane	1.502	85	1231	0.058	ppbv #	17
9) Propene	1.493	41	522	0.045	ppbv #	36
13) Ethanol	1.444	45	123969	112.058	ppbv #	1
15) Acetone	1.845	43	9971	0.421	ppbv	98
16) 1,3-Butadiene	1.609	39	605	0.052	ppbv #	35
19) Isopropyl Alcohol	1.444	45	123969	9.281	ppbv #	31
20) Methylene Chloride	2.075	84	1732	0.196	ppbv #	90
23) Vinyl Acetate	2.477	43	401	0.039	ppbv #	76
26) Hexane	2.849	57	1688	0.071	ppbv #	43
29) Chloroform	2.865	83	3374	0.097	ppbv	92
34) 2-Butanone	2.577	43	1503	0.045	ppbv	100
36) Benzene	3.677	78	1535	0.033	ppbv #	79
39) 1,2-Dichloropropane	3.982	63	115639	6.887	ppbv #	22
53) Toluene	6.959	91	18494	0.338	ppbv	96
59) m/p-Xylene	9.568	91	1960	0.035	ppbv #	31
60) o-Xylene	9.982	91	2684	0.048	ppbv	85

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

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SSSG-B1-1-04012025

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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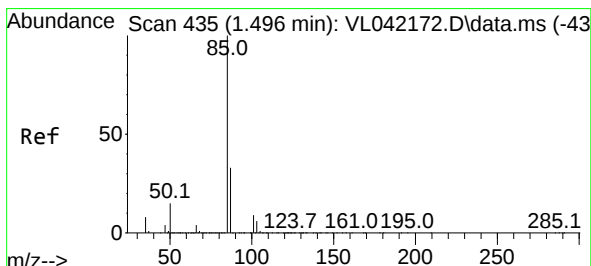
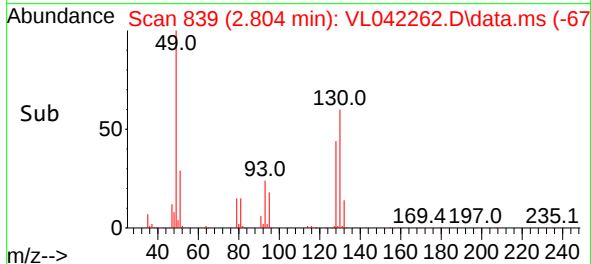
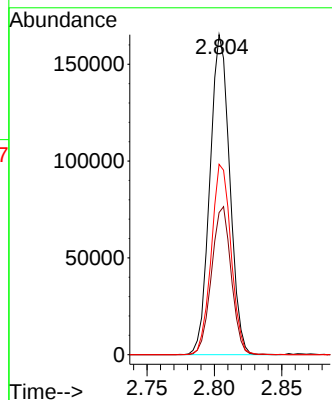
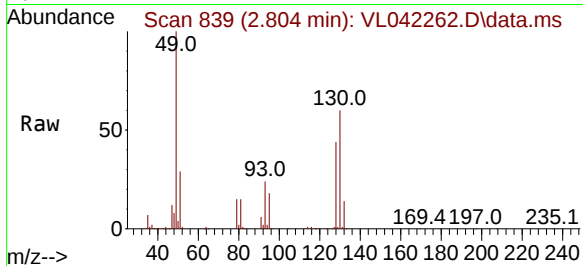




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.804 min Scan# 81
 Delta R.T. 0.020 min
 Lab File: VL042262.D
 Acq: 08 Apr 2025 14:22

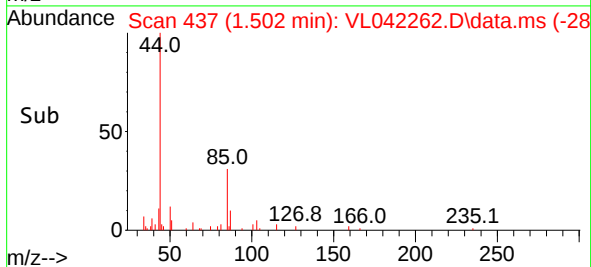
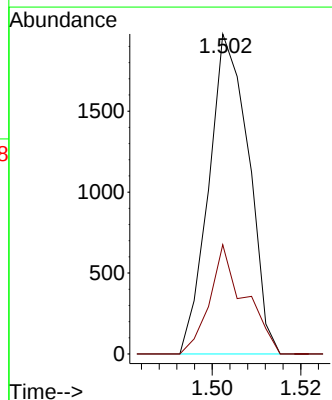
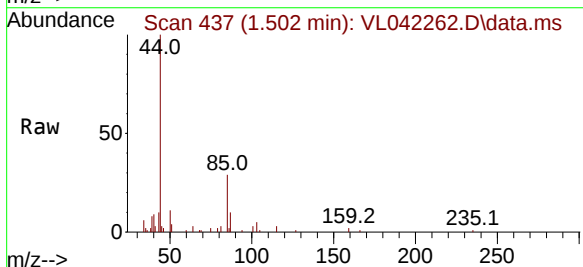
Instrument :
 MSVOA_L
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 SSSG-B1-1-04012025

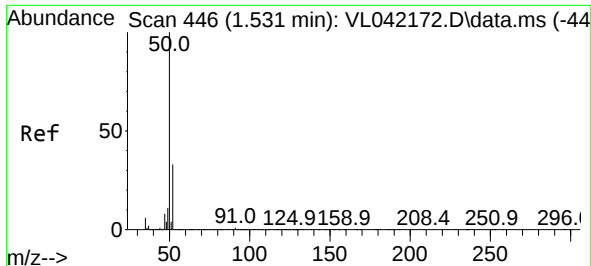
Tgt Ion: 49 Resp: 169273
 Ion Ratio Lower Upper
 49 100
 128 45.9 22.9 68.5
 130 59.3 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.049 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.007 min
 Lab File: VL042262.D
 Acq: 08 Apr 2025 14:22

Tgt Ion: 85 Resp: 1231
 Ion Ratio Lower Upper
 85 100
 87 34.1 26.1 39.1

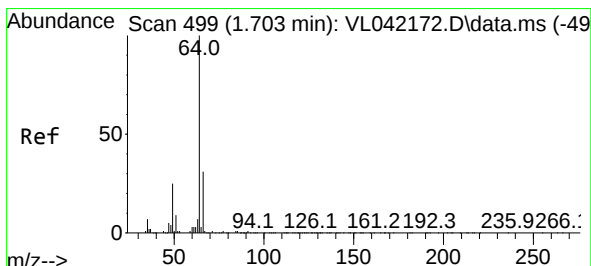
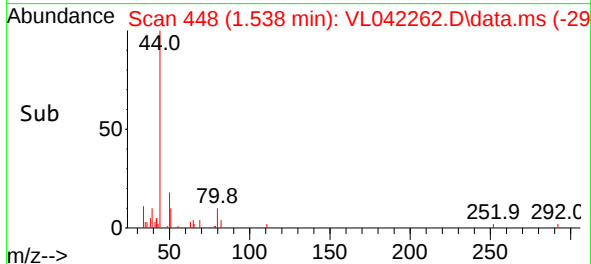
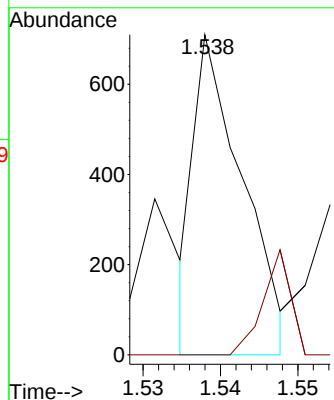
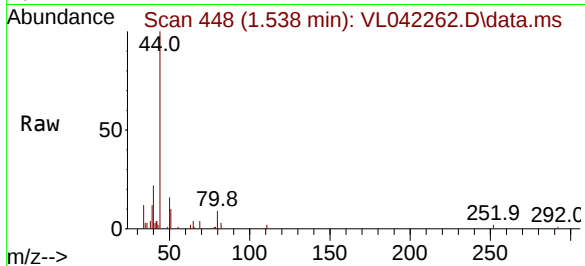




#4
Chloromethane
Concen: 0.030 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.007 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

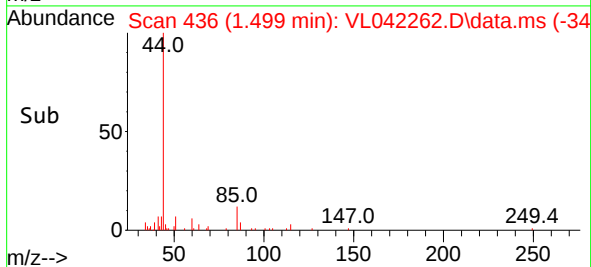
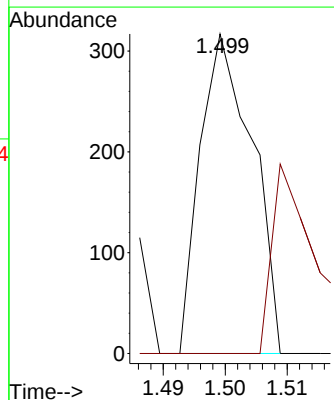
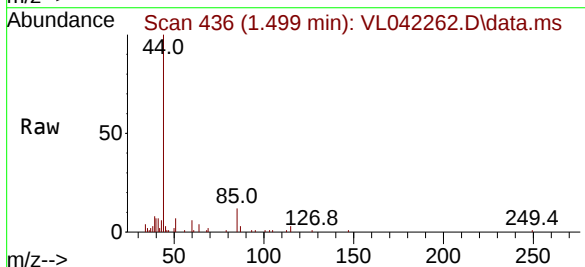
Instrument :
MSVOA_L
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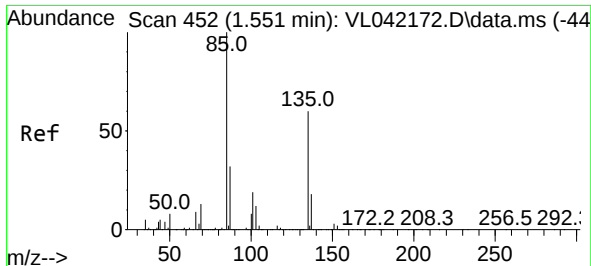
Tgt Ion: 50 Resp: 309
Ion Ratio Lower Upper
50 100
52 0.0 26.1 39.1#



#7
Chloroethane
Concen: 0.045 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.204 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 64 Resp: 186
Ion Ratio Lower Upper
64 100
66 0.0 25.2 37.8#

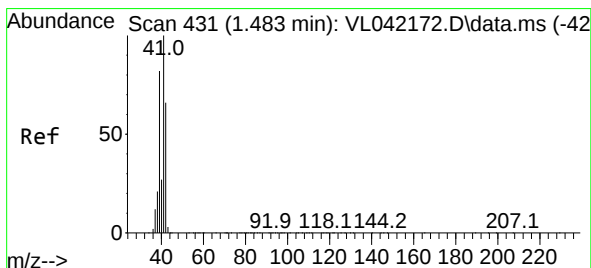
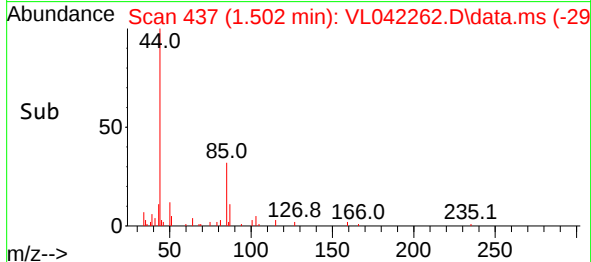
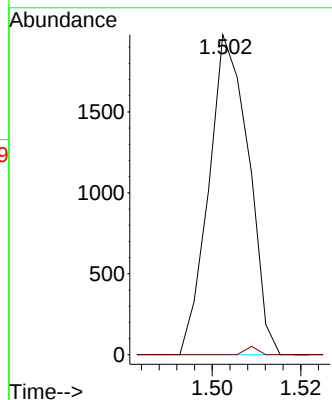
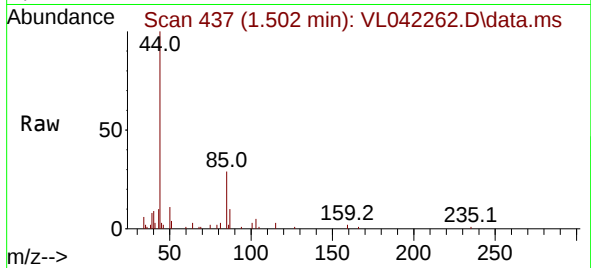




#8
Dichlorotetrafluoroethane
Concen: 0.058 ppbv
RT: 1.502 min Scan# 41
Delta R.T. -0.048 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

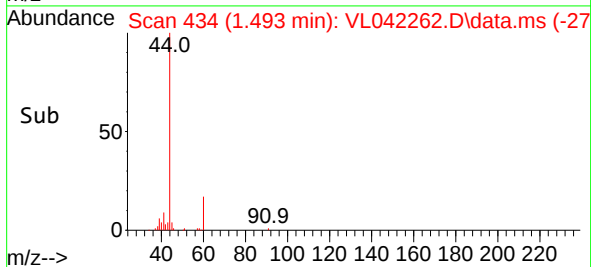
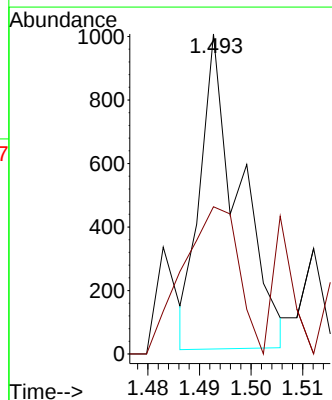
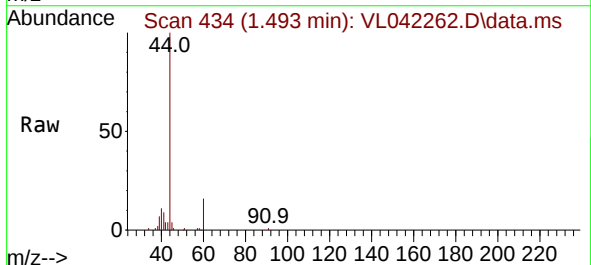
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

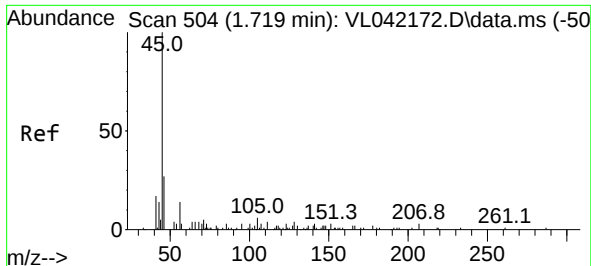
Tgt Ion: 85 Resp: 1231
Ion Ratio Lower Upper
85 100
135 0.0 52.4 78.6#



#9
Propene
Concen: 0.045 ppbv
RT: 1.493 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 41 Resp: 522
Ion Ratio Lower Upper
41 100
42 121.6 55.4 83.2#

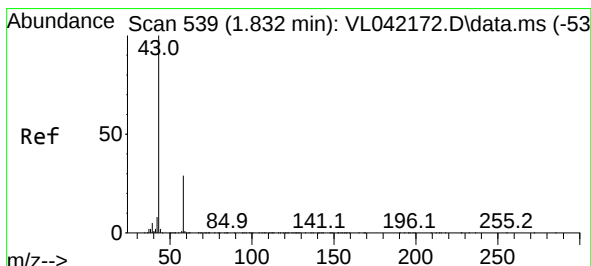
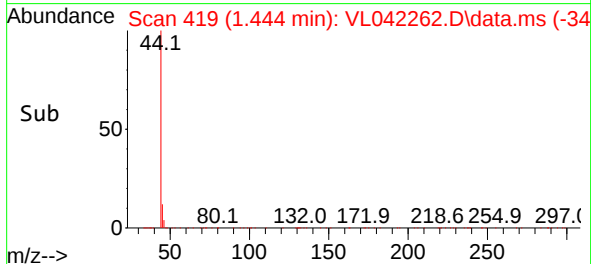
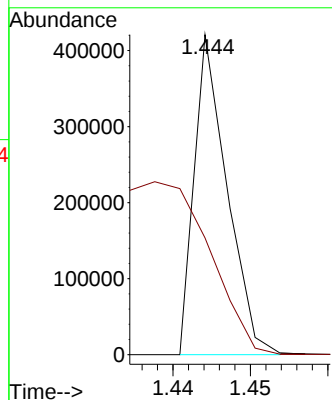
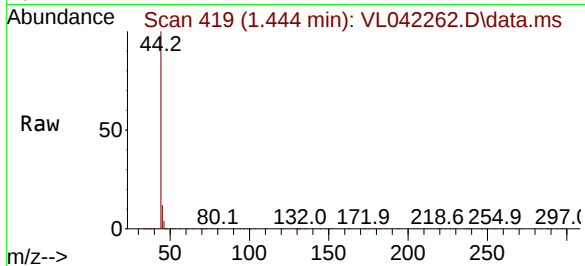




#13
Ethanol
Concen: 112.058 ppbv
RT: 1.444 min Scan# 419
Delta R.T. -0.275 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

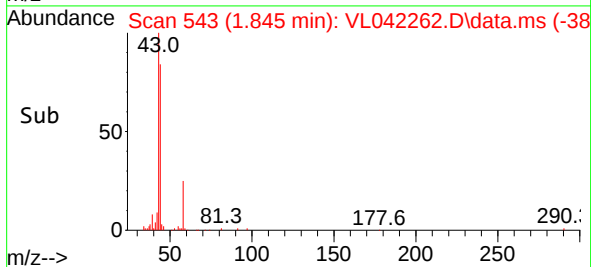
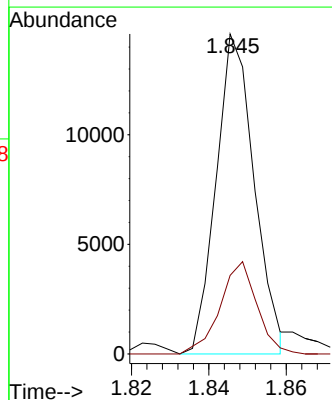
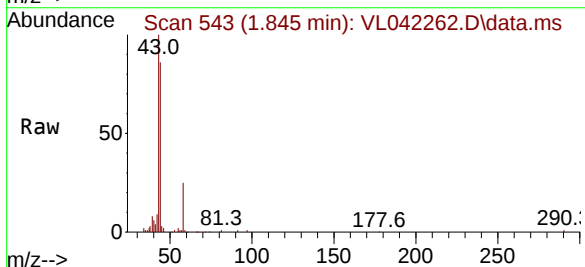
Instrument :
MSVOA_L
ClientSampleId :
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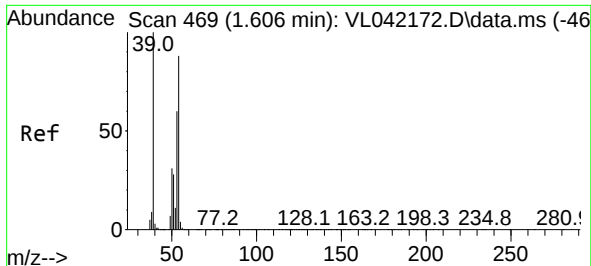
Tgt Ion: 45 Resp: 123969
Ion Ratio Lower Upper
45 100
46 211.7 20.2 80.8#



#15
Acetone
Concen: 0.421 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 43 Resp: 9971
Ion Ratio Lower Upper
43 100
58 28.0 23.2 34.8

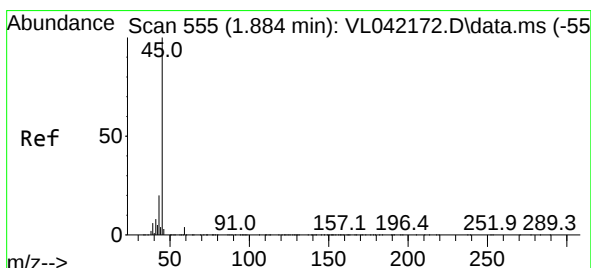
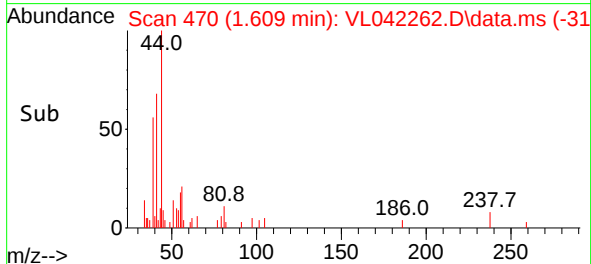
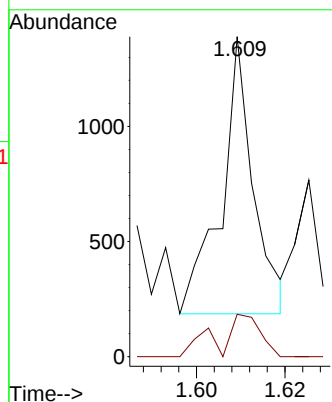
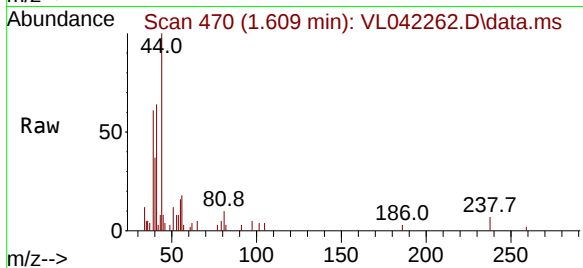




#16
1,3-Butadiene
Concen: 0.052 ppbv
RT: 1.609 min Scan# 419
Delta R.T. 0.003 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

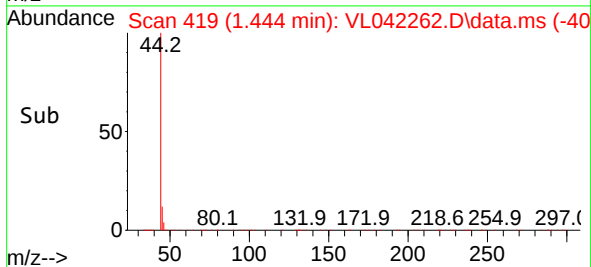
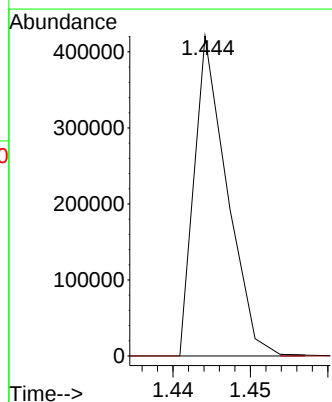
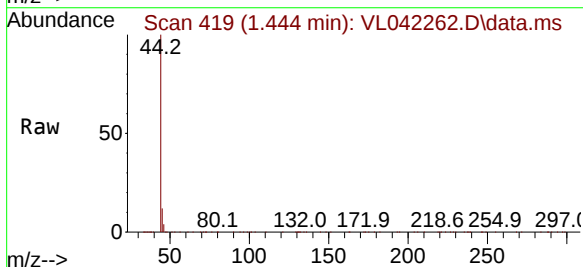
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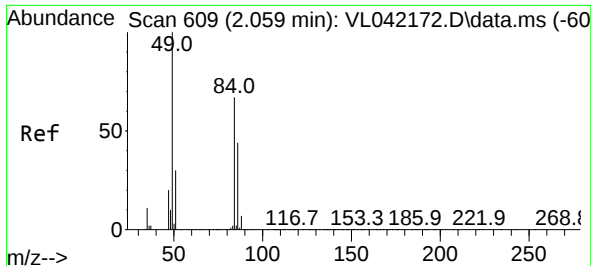
Tgt Ion: 39 Resp: 605
Ion Ratio Lower Upper
39 100
54 20.0 60.7 91.1#



#19
Isopropyl Alcohol
Concen: 9.281 ppbv
RT: 1.444 min Scan# 419
Delta R.T. -0.440 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 45 Resp: 123969
Ion Ratio Lower Upper
45 100
58 0.2 36.9 55.3#

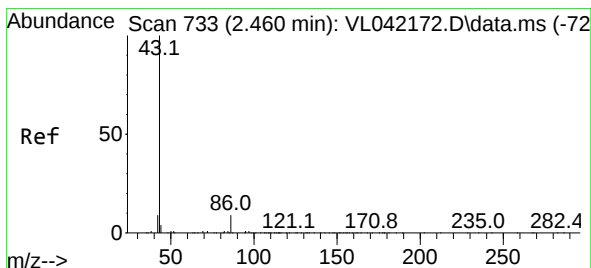
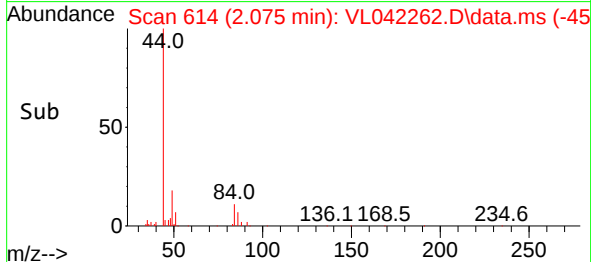
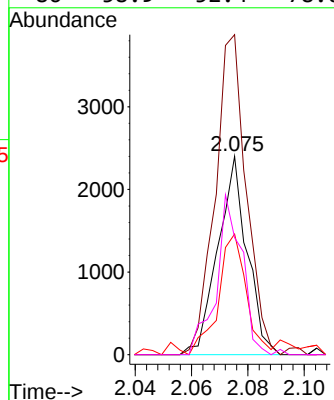
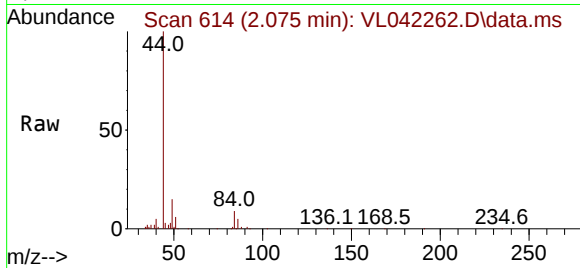




#20
Methylene Chloride
Concen: 0.196 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

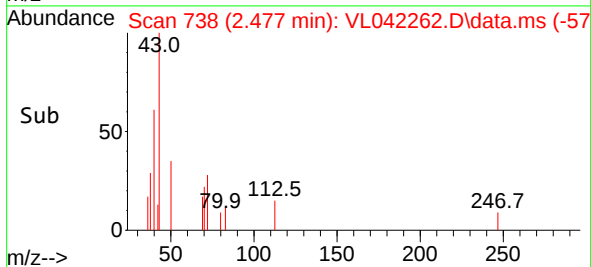
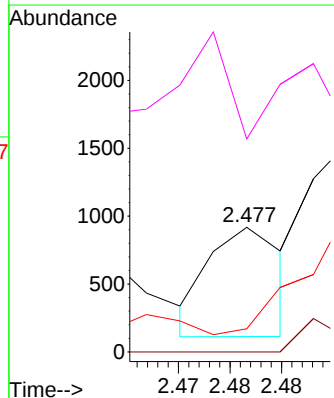
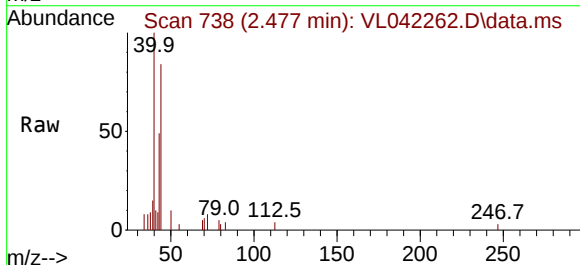
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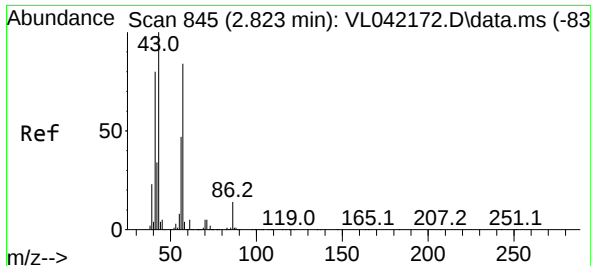
Tgt Ion:	84	Resp:	1732
Ion	Ratio	Lower	Upper
84	100		
49	161.2	120.2	180.4
51	58.5	37.4	56.0#
86	58.9	52.4	78.6



#23
Vinyl Acetate
Concen: 0.039 ppbv
RT: 2.477 min Scan# 738
Delta R.T. 0.016 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion:	43	Resp:	401
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	0.0	8.6	13.0#
44	0.0	6.2	9.4#

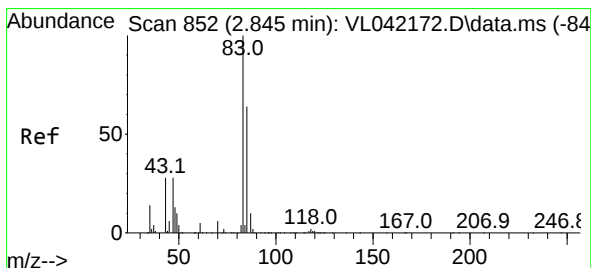
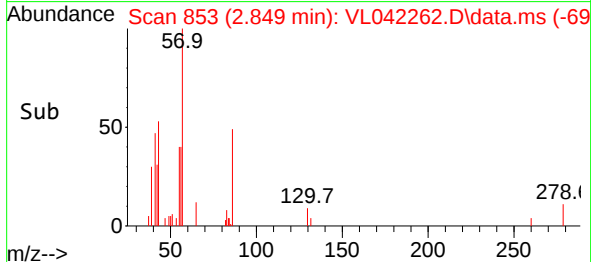
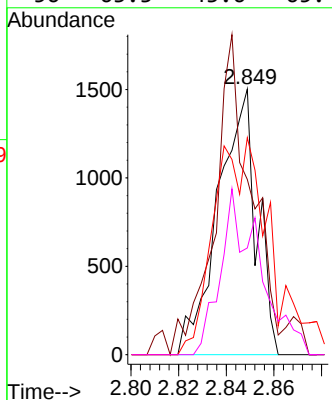
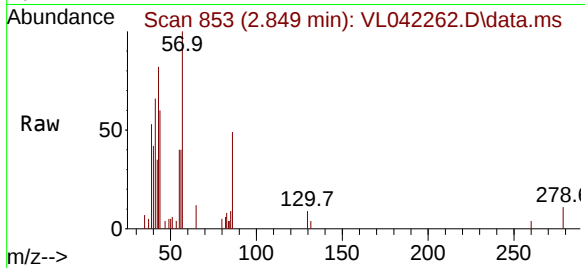




#26
Hexane
Concen: 0.071 ppbv
RT: 2.849 min Scan# 81
Delta R.T. 0.026 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

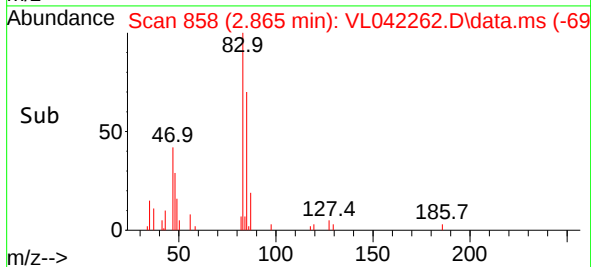
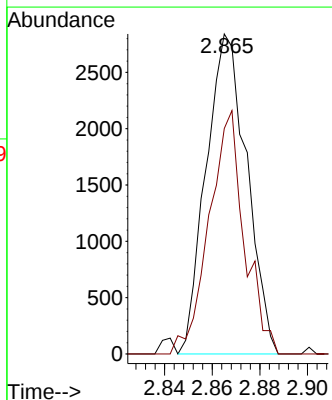
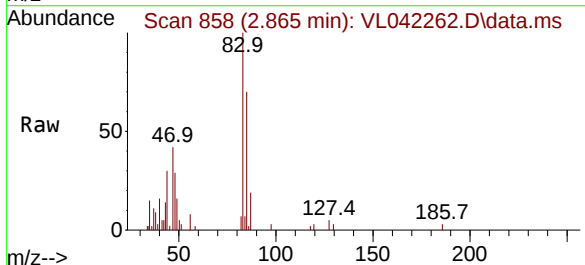
Instrument :
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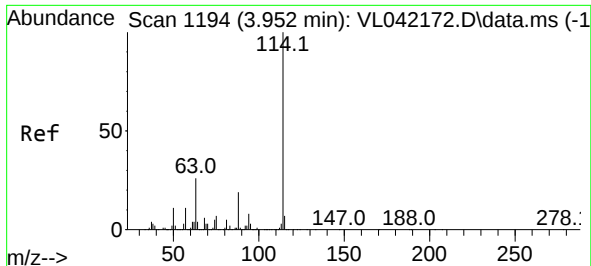
Tgt Ion: 57 Resp: 1688
Ion Ratio Lower Upper
57 100
41 122.0 76.6 114.8#
43 122.5 207.8 311.8#
56 63.3 43.6 65.4



#29
Chloroform
Concen: 0.097 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.020 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 83 Resp: 3374
Ion Ratio Lower Upper
83 100
85 70.4 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.982 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042262.D

Acq: 08 Apr 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

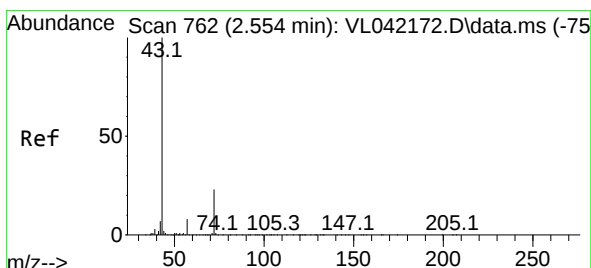
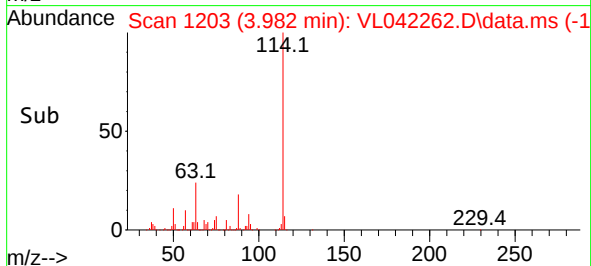
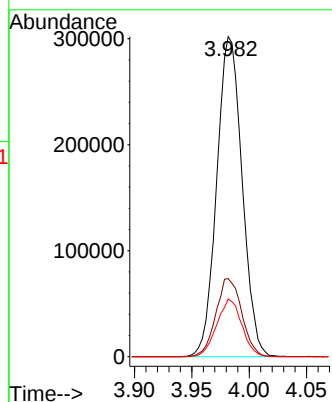
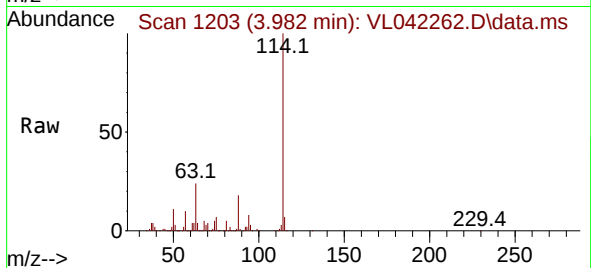
Tgt Ion:114 Resp: 465061

Ion Ratio Lower Upper

114 100

63 24.9 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 0.045 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.023 min

Lab File: VL042262.D

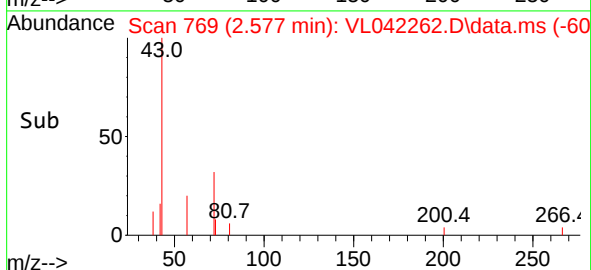
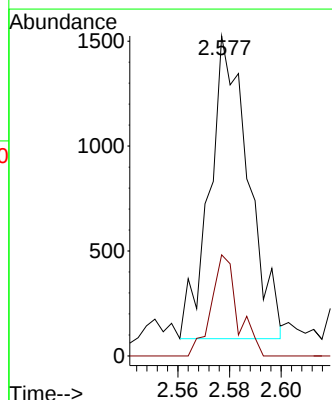
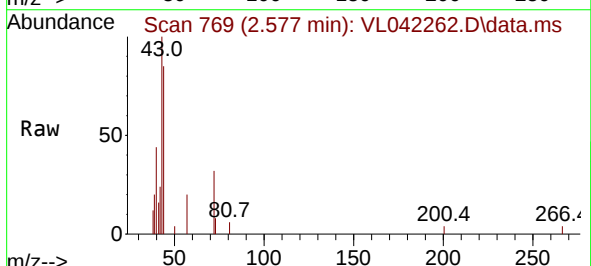
Acq: 08 Apr 2025 14:22

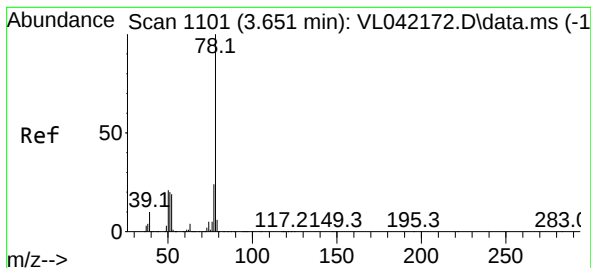
Tgt Ion: 43 Resp: 1503

Ion Ratio Lower Upper

43 100

72 22.8 18.2 27.2





#36

Benzene

Concen: 0.033 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042262.D

Acq: 08 Apr 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B1-1-04012025

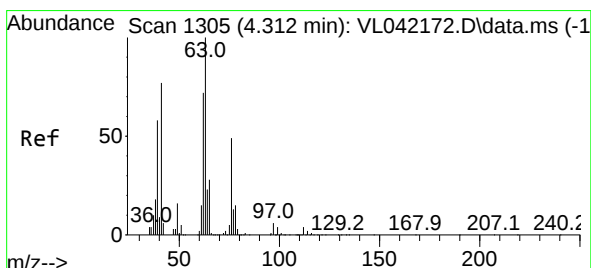
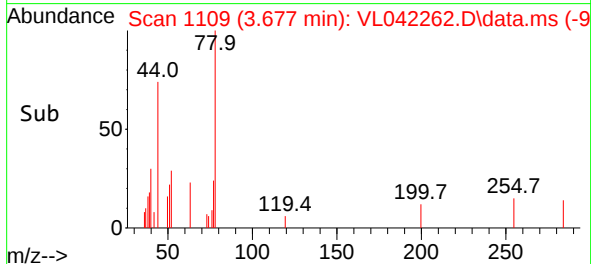
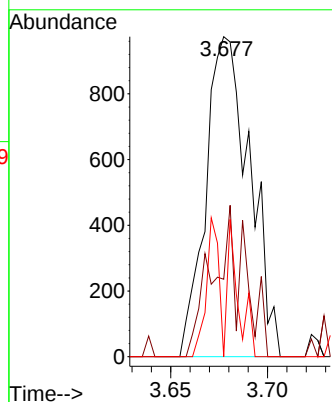
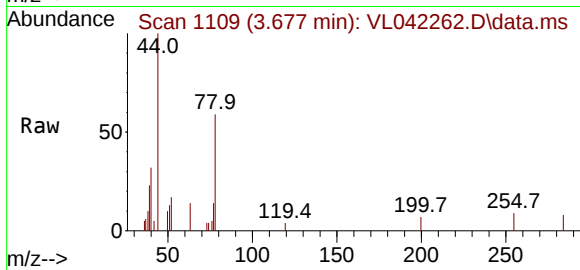
Tgt Ion: 78 Resp: 1535

Ion Ratio Lower Upper

78 100

77 24.2 19.1 28.7

50 0.0 16.6 24.8#



#39

1,2-Dichloropropane

Concen: 6.887 ppbv

RT: 3.982 min Scan# 1203

Delta R.T. -0.330 min

Lab File: VL042262.D

Acq: 08 Apr 2025 14:22

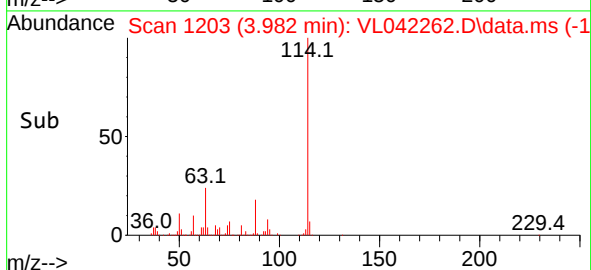
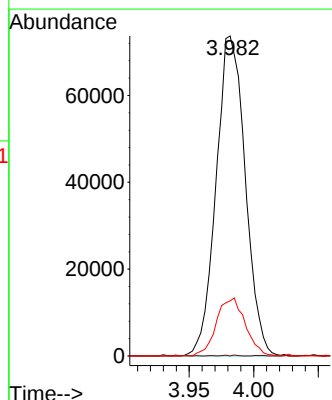
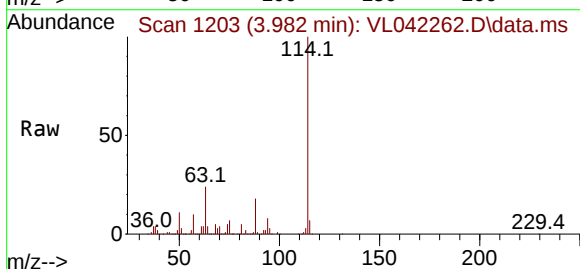
Tgt Ion: 63 Resp: 115639

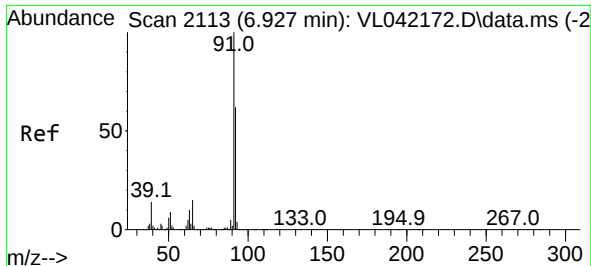
Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 17.2 57.6 86.4#

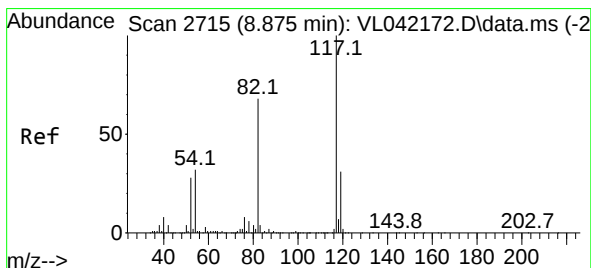
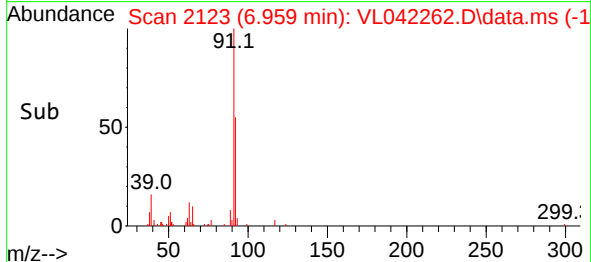
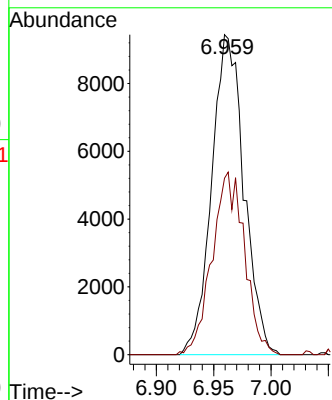
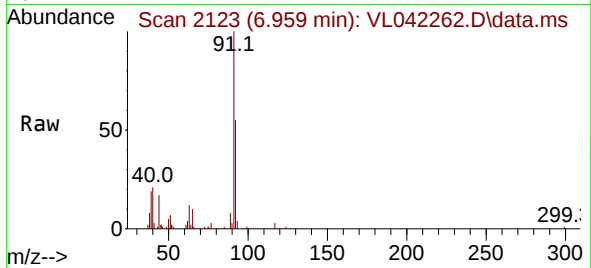




#53
Toluene
Concen: 0.338 ppbv
RT: 6.959 min Scan# 2113
Delta R.T. 0.033 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

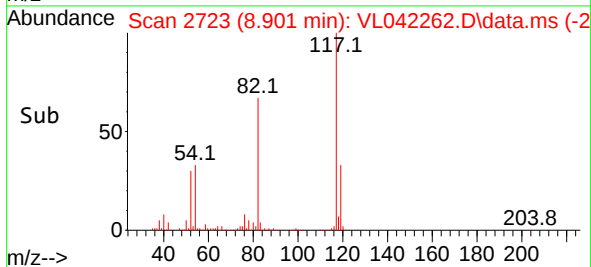
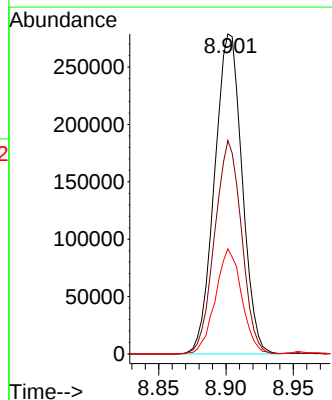
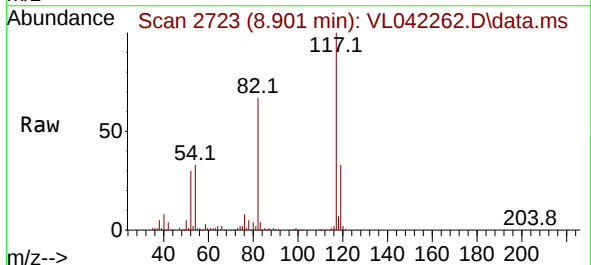
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B1-1-04012025

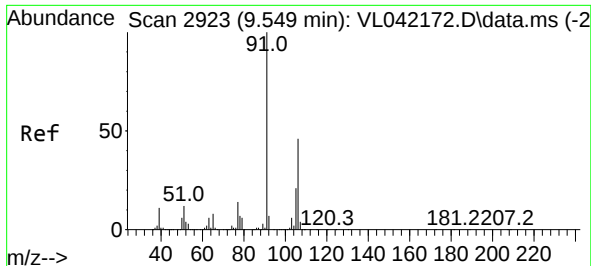
Tgt Ion: 91 Resp: 18494
Ion Ratio Lower Upper
91 100
92 57.3 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.026 min
Lab File: VL042262.D
Acq: 08 Apr 2025 14:22

Tgt Ion: 117 Resp: 397048
Ion Ratio Lower Upper
117 100
82 65.4 55.8 83.6
119 31.5 25.5 38.3





#59

m/p-Xylene

Concen: 0.035 ppbv

RT: 9.568 min Scan# 2923

Delta R.T. 0.020 min

Lab File: VL042262.D

Acq: 08 Apr 2025 14:22

Instrument :

MSVOA_L

ClientSampleId :

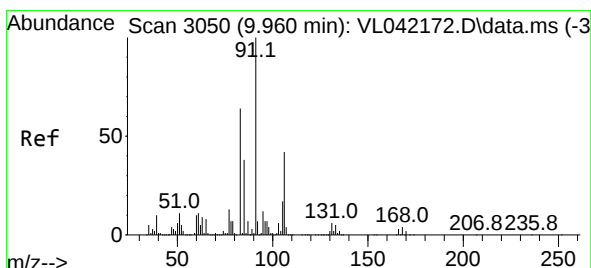
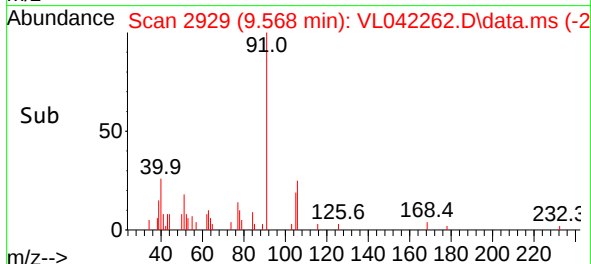
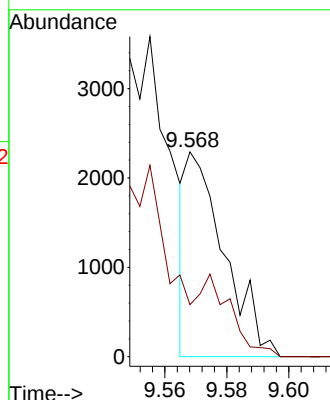
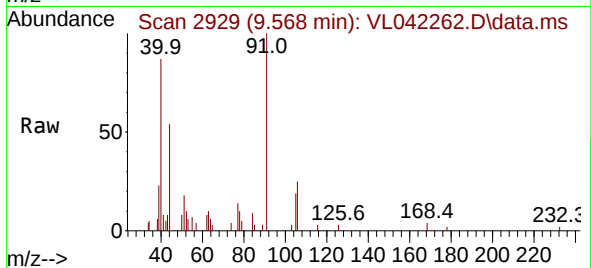
SSSG-B1-1-04012025

Tgt Ion: 91 Resp: 1960

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.023 min

Lab File: VL042262.D

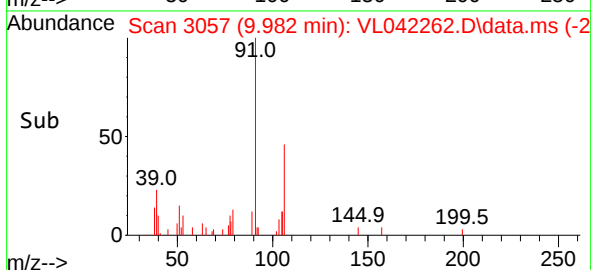
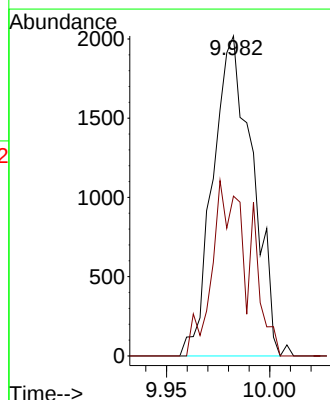
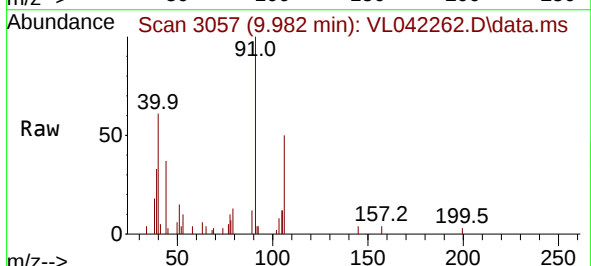
Acq: 08 Apr 2025 14:22

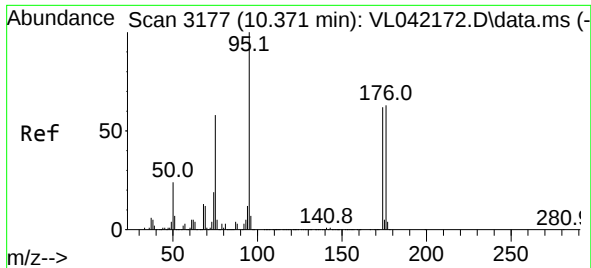
Tgt Ion: 91 Resp: 2684

Ion Ratio Lower Upper

91 100

106 51.3 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.369 ppbv
 RT: 10.393 min Scan# 31
 Delta R.T. 0.023 min
 Lab File: VL042262.D
 Acq: 08 Apr 2025 14:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B1-1-04012025

Tgt Ion: 95 Resp: 305487
 Ion Ratio Lower Upper
 95 100
 174 60.2 50.6 76.0
 175 4.6 3.8 5.6

