

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042269.D
 Acq On : 08 Apr 2025 18:00
 Operator : SY/MD
 Sample : Q1728-04 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

Quant Time: Apr 09 01:58:40 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)

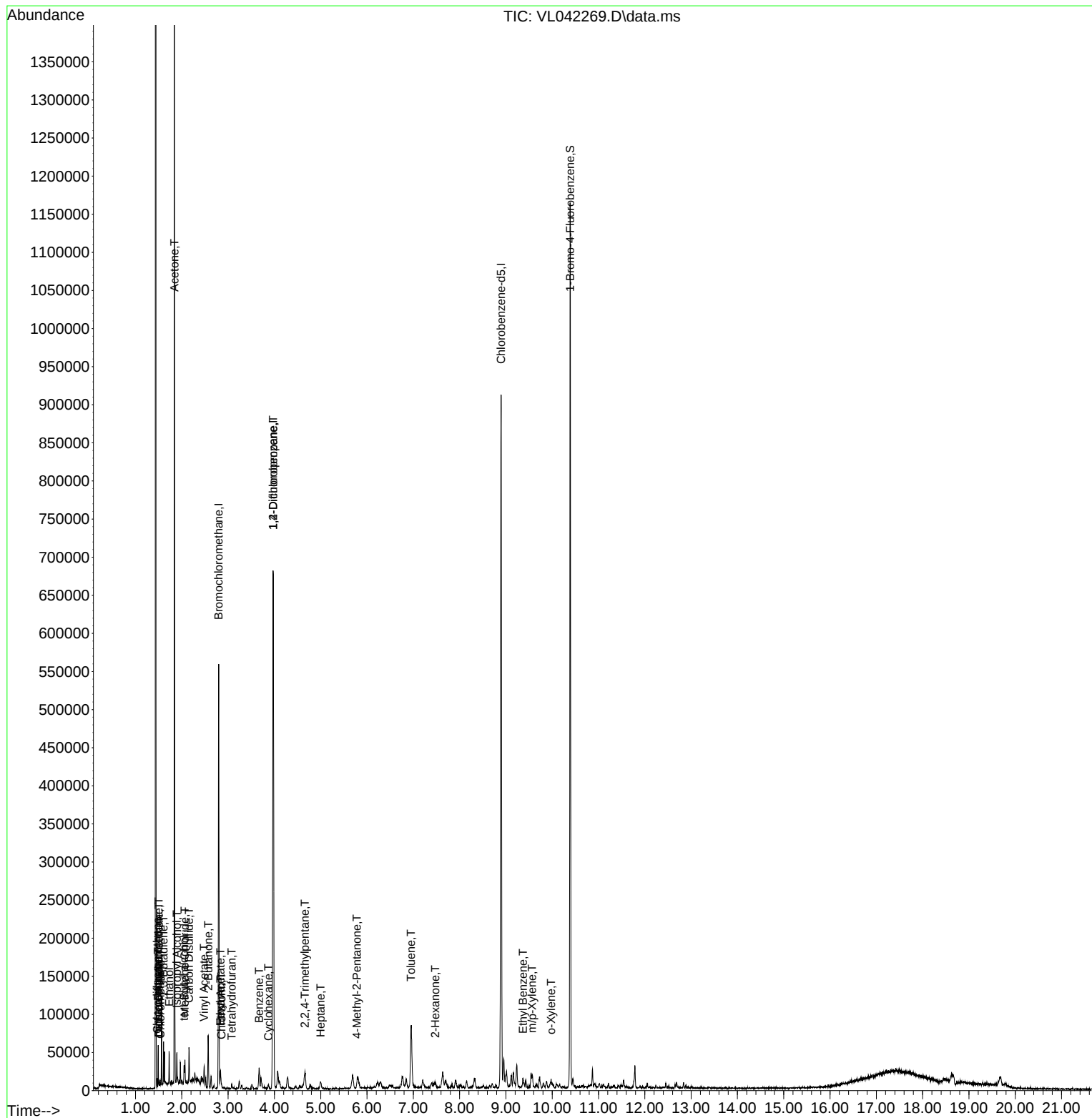
Internal Standards						
1) Bromochloromethane	2.797	49	152398	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	401198	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	362485	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	281014	9.440	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	983	0.044	ppbv #	76
3) Chlorodifluoromethane	1.470	51	4174	0.182	ppbv #	67
4) Chloromethane	1.538	50	877	0.095	ppbv	94
8) Dichlorotetrafluoroethane	1.502	85	983	0.051	ppbv #	27
9) Propene	1.489	41	7460	0.708	ppbv	92
10) Heptane	4.994	43	1768	0.063	ppbv #	1
13) Ethanol	1.725	45	14353	14.411	ppbv	80
15) Acetone	1.839	43	661383	31.031	ppbv	97
16) 1,3-Butadiene	1.606	39	5941	0.571	ppbv #	31
17) tert-Butyl alcohol	2.049	59	8394	0.316	ppbv #	87
19) Isopropyl Alcohol	1.894	45	16443	1.367	ppbv #	30
20) Methylene Chloride	2.065	84	3703	0.466	ppbv #	78
23) Vinyl Acetate	2.483	43	7514	0.815	ppbv #	52
25) Ethyl Acetate	2.835	43	4741	0.086	ppbv #	89
26) Hexane	2.835	57	4431	0.207	ppbv #	38
27) Carbon Disulfide	2.156	76	24533	1.071	ppbv #	49
29) Chloroform	2.855	83	1343	0.043	ppbv	96
30) Cyclohexane	3.868	84	671	0.036	ppbv #	1
34) 2-Butanone	2.570	43	43752	1.504	ppbv	99
36) Benzene	3.671	78	16307	0.410	ppbv #	87
39) 1,2-Dichloropropane	3.975	63	102497	7.076	ppbv #	22
41) Tetrahydrofuran	3.075	42	582	0.035	ppbv #	37
44) 2,2,4-Trimethylpentane	4.658	57	12251	0.182	ppbv #	33
50) 4-Methyl-2-Pentanone	5.778	43	1527	0.033	ppbv #	39
51) 2-Hexanone	7.474	43	1495	0.039	ppbv #	28
53) Toluene	6.949	91	57797	1.226	ppbv	100
58) Ethyl Benzene	9.367	91	5340	0.083	ppbv	94
59) m/p-Xylene	9.561	91	3891	0.076	ppbv #	31
60) o-Xylene	9.976	91	3943	0.077	ppbv	83

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

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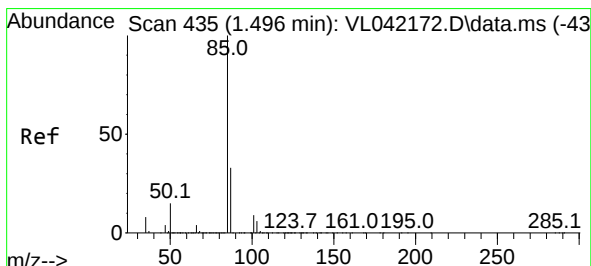
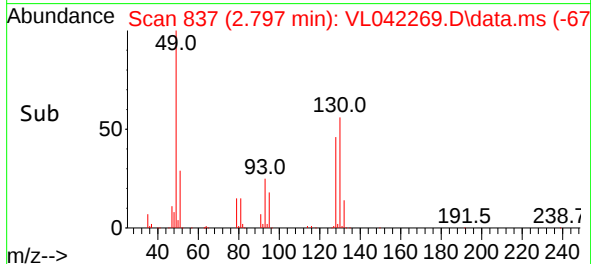
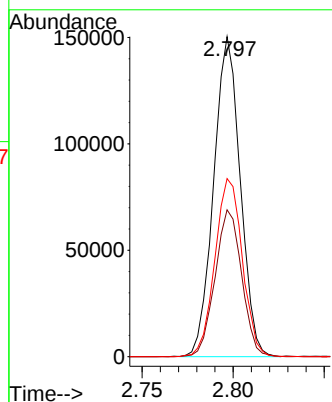
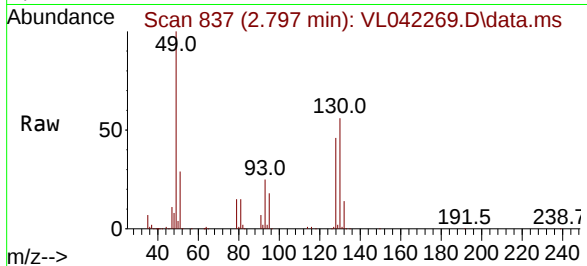




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

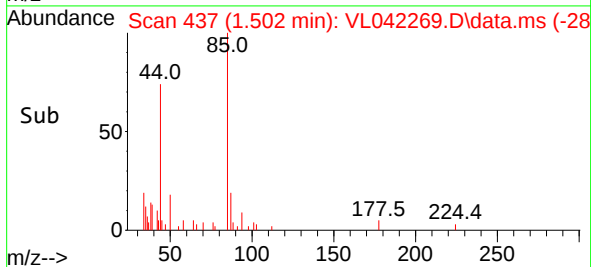
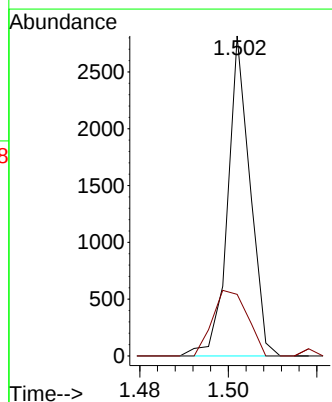
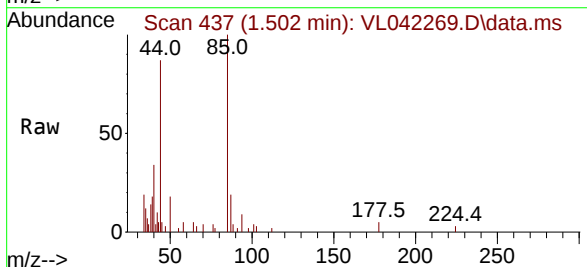
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

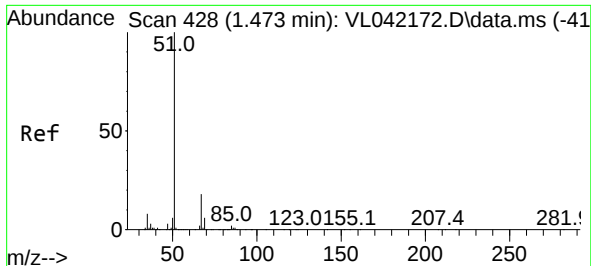
Tgt Ion: 49 Resp: 152398
 Ion Ratio Lower Upper
 49 100
 128 45.9 22.9 68.5
 130 57.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.044 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. 0.006 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

Tgt Ion: 85 Resp: 983
 Ion Ratio Lower Upper
 85 100
 87 19.2 26.1 39.1#

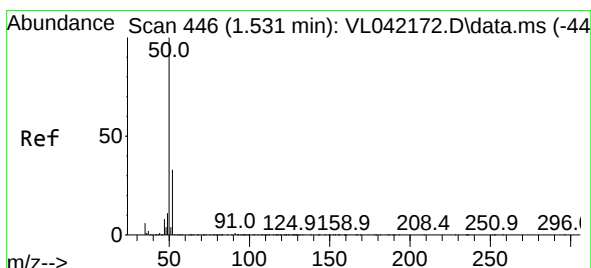
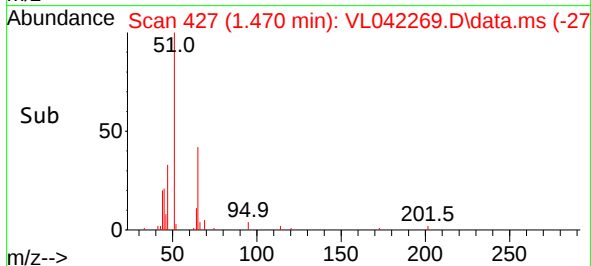
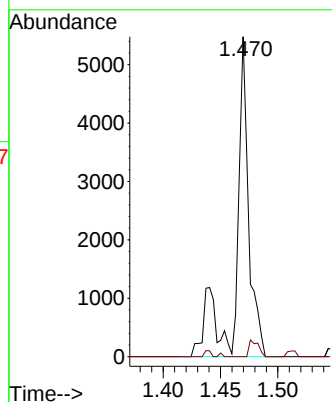
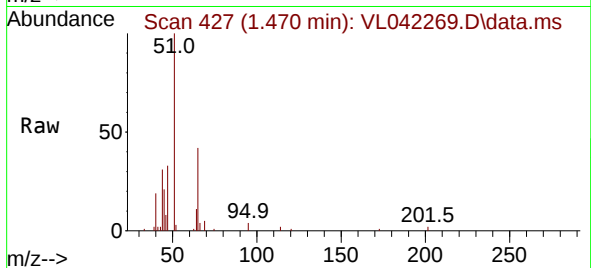




#3
Chlorodifluoromethane
Concen: 0.182 ppbv
RT: 1.470 min Scan# 417
Delta R.T. -0.003 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

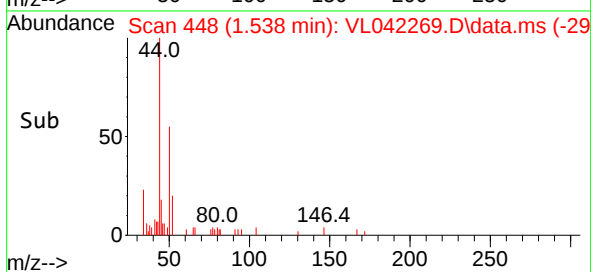
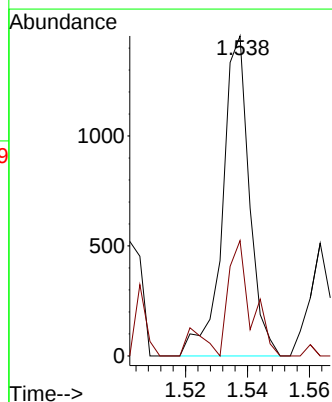
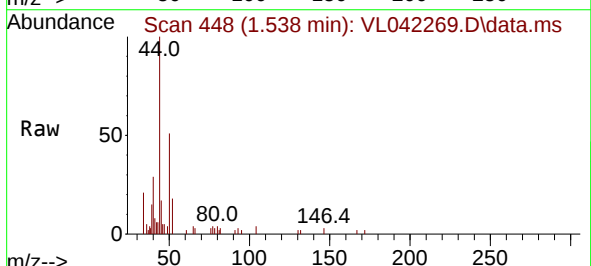
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-7-04022025

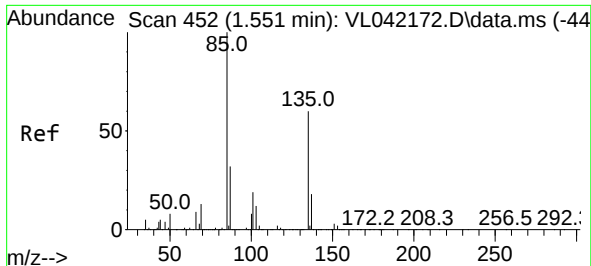
Tgt Ion: 51 Resp: 4174
Ion Ratio Lower Upper
51 100
67 3.8 15.0 22.6#



#4
Chloromethane
Concen: 0.095 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 50 Resp: 877
Ion Ratio Lower Upper
50 100
52 36.0 26.1 39.1

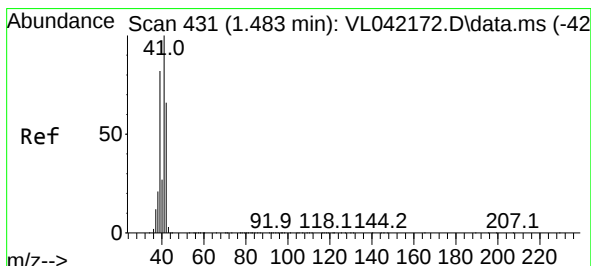
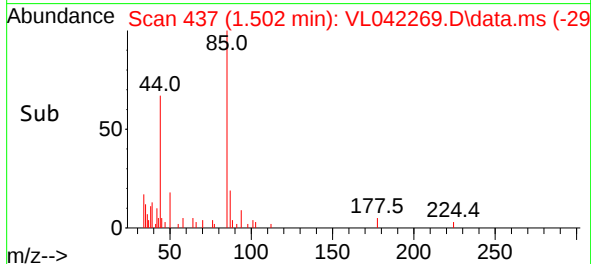
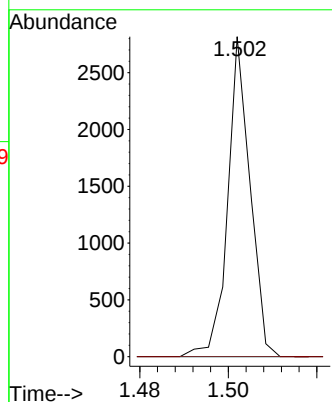
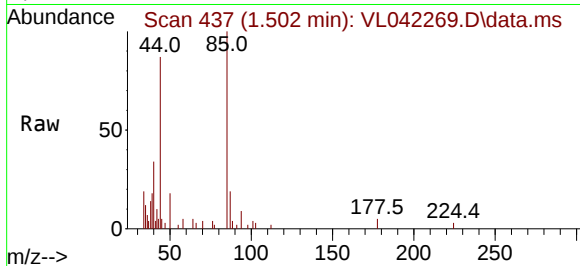




#8
 Dichlorotetrafluoroethane
 Concen: 0.051 ppbv
 RT: 1.502 min Scan# 41
 Delta R.T. -0.049 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

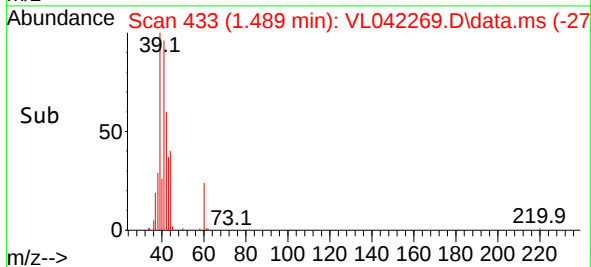
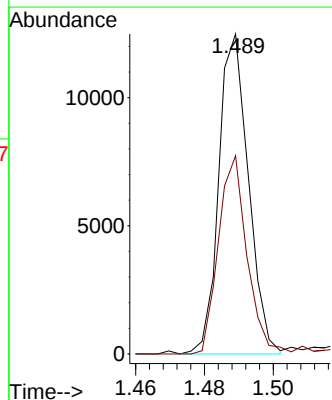
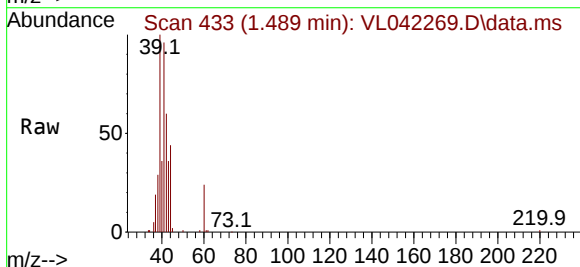
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

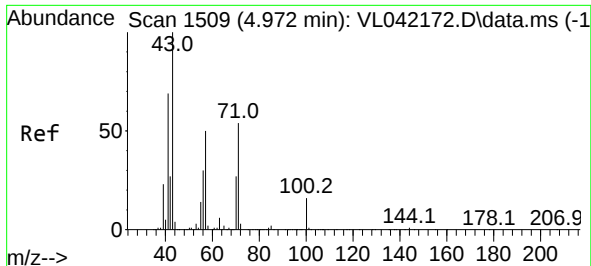
Tgt Ion: 85 Resp: 983
 Ion Ratio Lower Upper
 85 100
 135 7.5 52.4 78.6#



#9
 Propene
 Concen: 0.708 ppbv
 RT: 1.489 min Scan# 433
 Delta R.T. 0.006 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

Tgt Ion: 41 Resp: 7460
 Ion Ratio Lower Upper
 41 100
 42 63.0 55.4 83.2

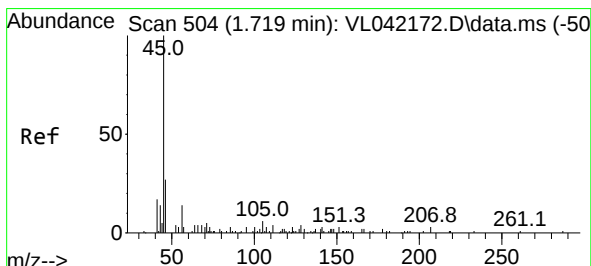
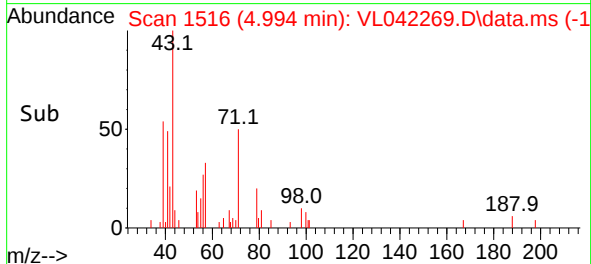
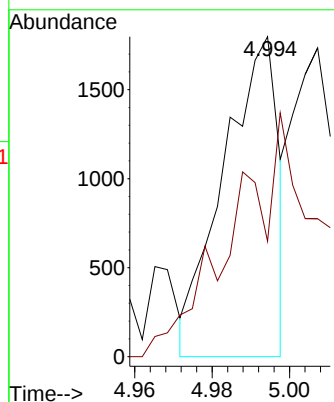
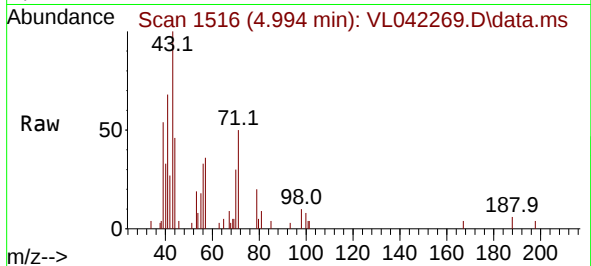




#10
Heptane
Concen: 0.063 ppbv
RT: 4.994 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

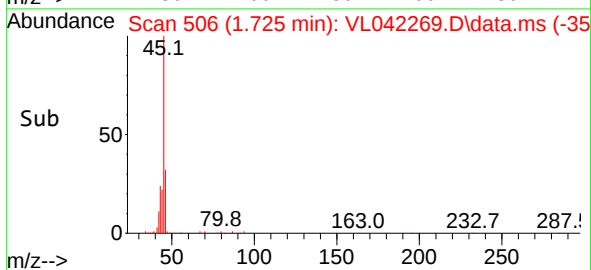
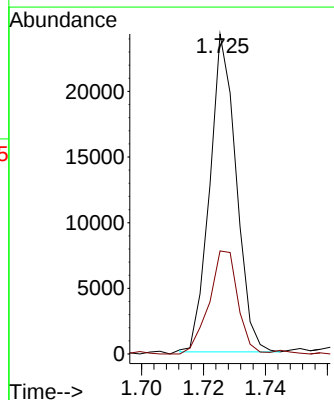
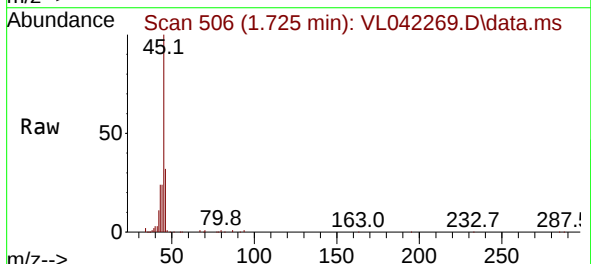
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-7-04022025

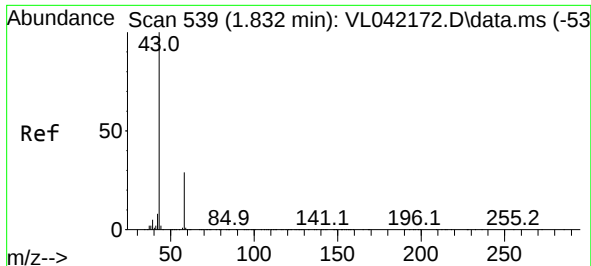
Tgt Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
57 132.0 39.4 59.2#



#13
Ethanol
Concen: 14.411 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 45 Resp: 14353
Ion Ratio Lower Upper
45 100
46 36.7 20.2 80.8

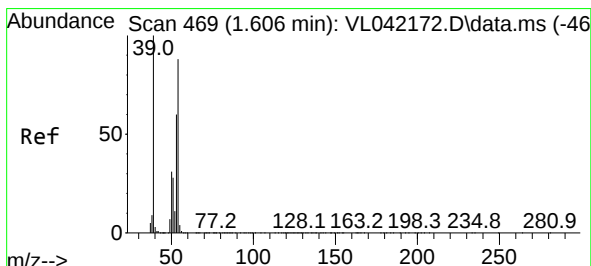
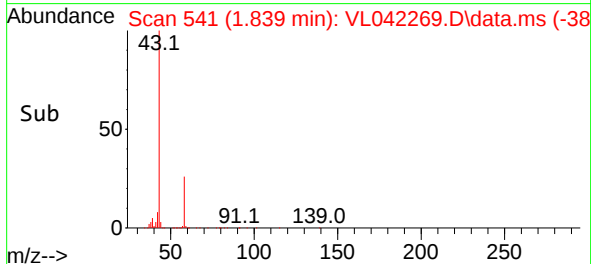
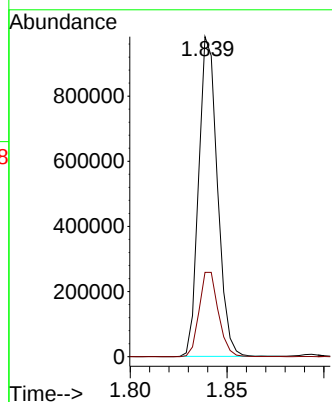
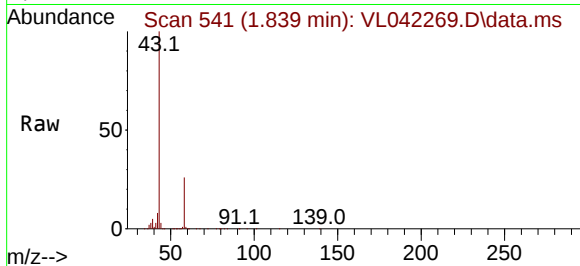




#15
Acetone
Concen: 31.031 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

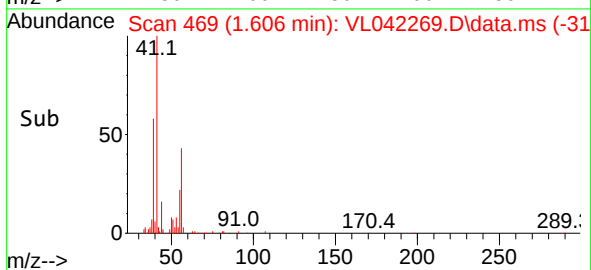
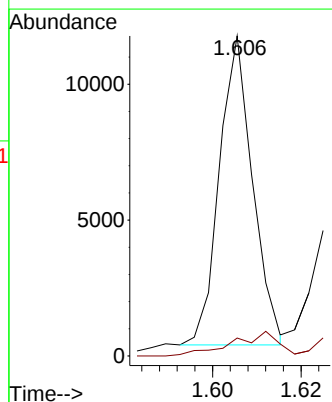
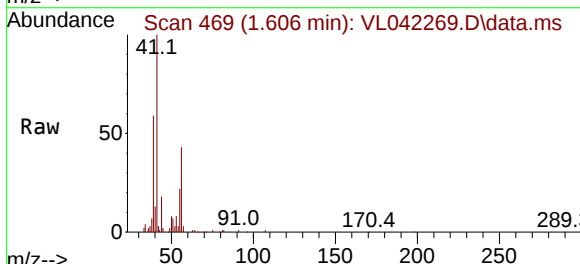
Instrument :
MSVOA_L
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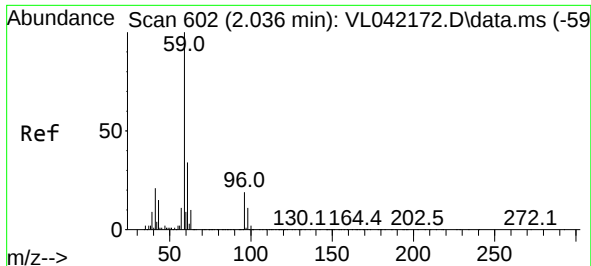
Tgt Ion: 43 Resp: 661383
Ion Ratio Lower Upper
43 100
58 27.3 23.2 34.8



#16
1,3-Butadiene
Concen: 0.571 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 39 Resp: 5941
Ion Ratio Lower Upper
39 100
54 16.8 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.316 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Instrument :

MSVOA_1

ClientSampleId :

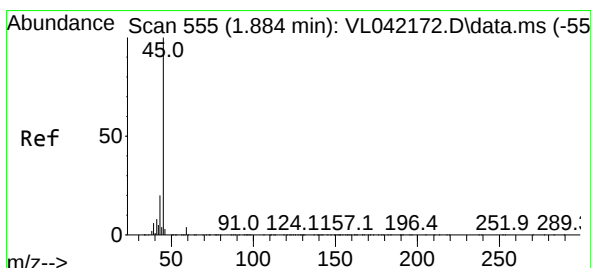
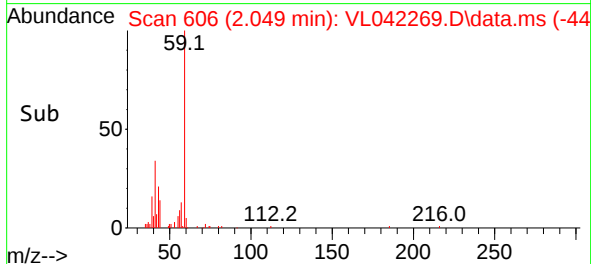
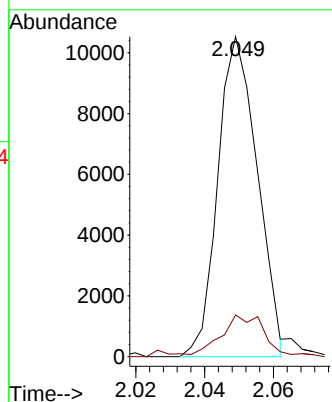
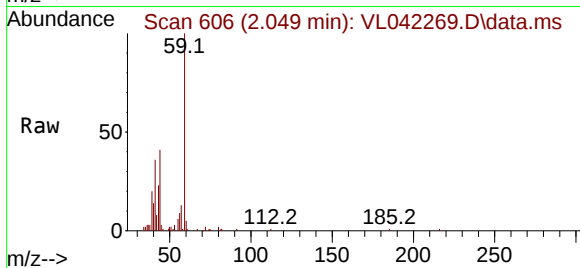
SSSG-B2-7-04022025

Tgt Ion: 59 Resp: 8394

Ion Ratio Lower Upper

59 100

57 15.9 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 1.367 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL042269.D

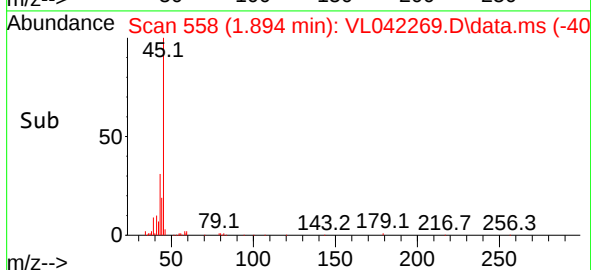
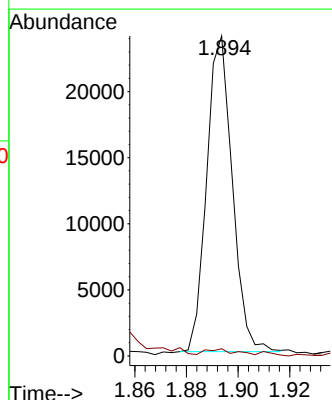
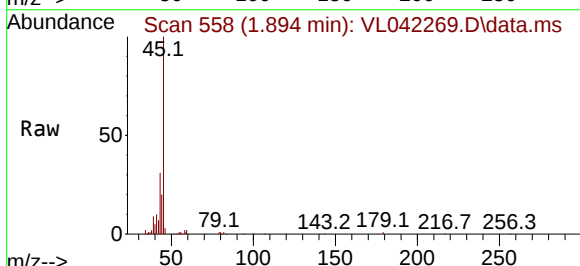
Acq: 08 Apr 2025 18:00

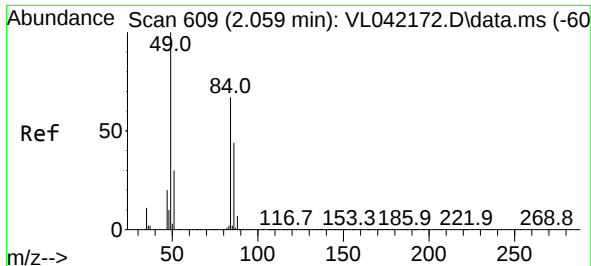
Tgt Ion: 45 Resp: 16443

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#





#20

Methylene Chloride

Concen: 0.466 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025

Tgt Ion: 84 Resp: 3703

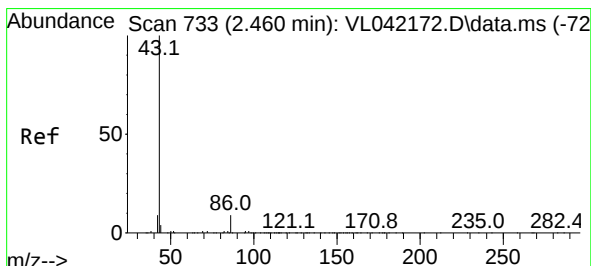
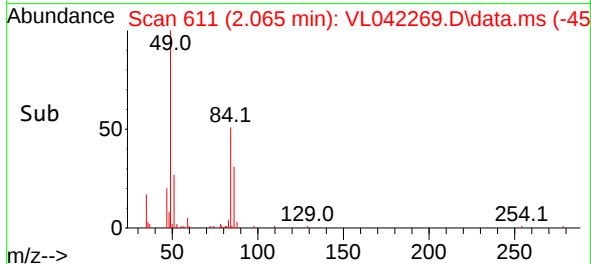
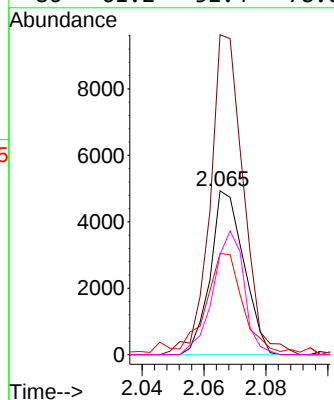
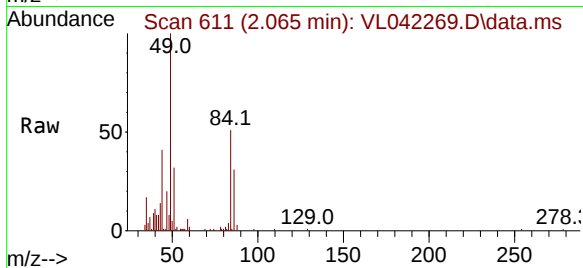
Ion Ratio Lower Upper

84 100

49 188.8 120.2 180.4#

51 58.7 37.4 56.0#

86 61.2 52.4 78.6



#23

Vinyl Acetate

Concen: 0.815 ppbv

RT: 2.483 min Scan# 740

Delta R.T. 0.022 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Tgt Ion: 43 Resp: 7514

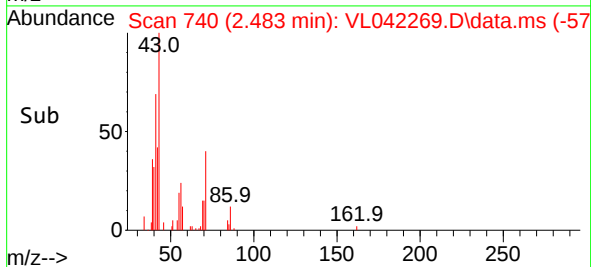
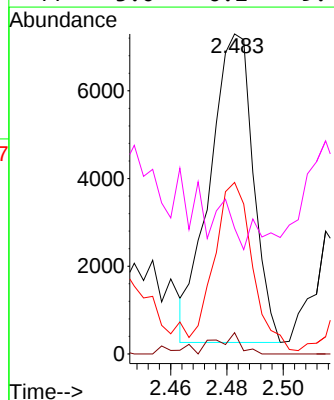
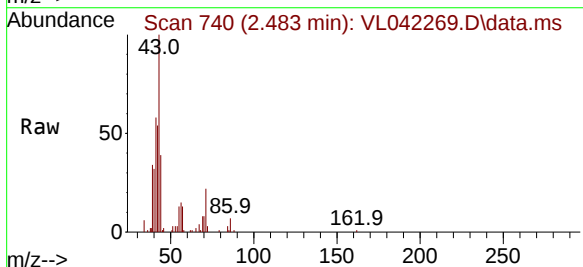
Ion Ratio Lower Upper

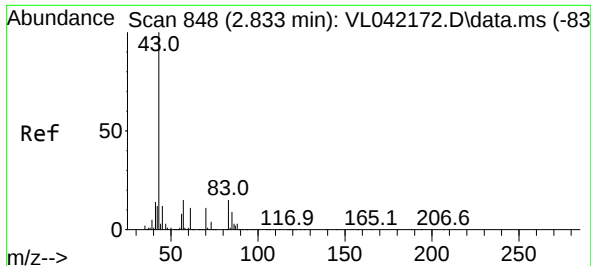
43 100

86 6.9 5.5 8.3

42 49.5 8.6 13.0#

44 3.0 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.086 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Instrument :

MSVOA_1

ClientSampleId :

SSSG-B2-7-04022025

Tgt Ion: 43 Resp: 4741

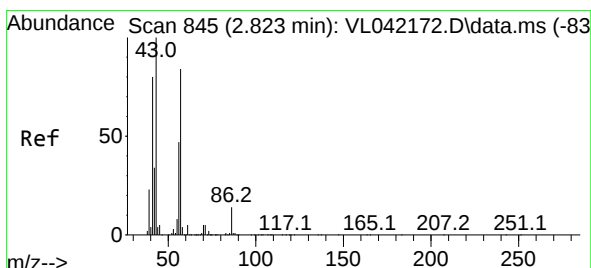
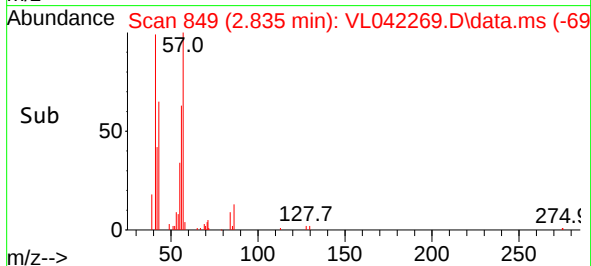
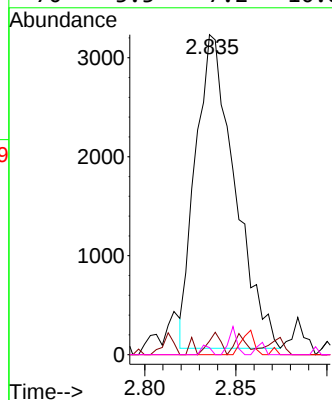
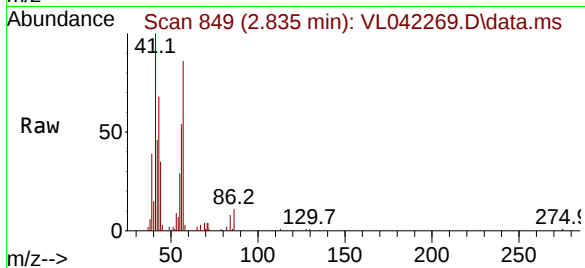
Ion Ratio Lower Upper

43 100

45 9.5 8.2 12.2

61 2.7 7.3 10.9#

70 3.3 7.2 10.8#



#26

Hexane

Concen: 0.207 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.013 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Tgt Ion: 57 Resp: 4431

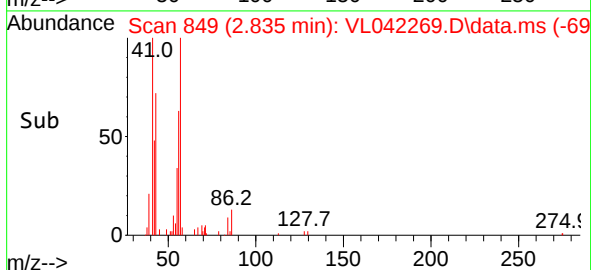
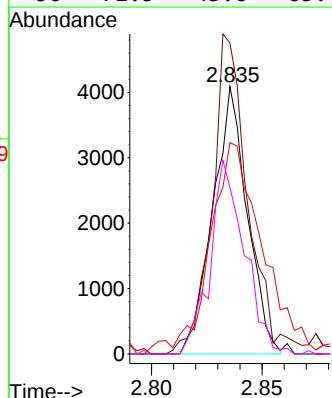
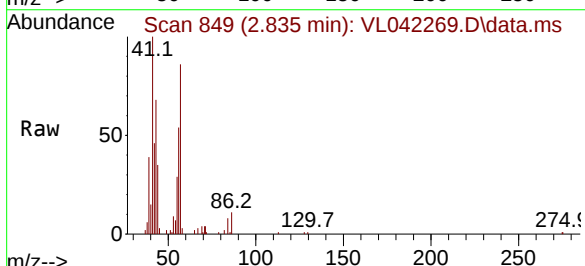
Ion Ratio Lower Upper

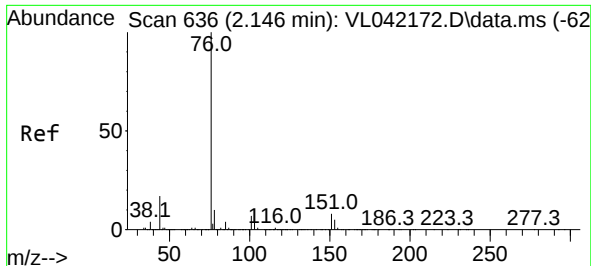
57 100

41 126.2 76.6 114.8#

43 114.5 207.8 311.8#

56 72.5 43.6 65.4#

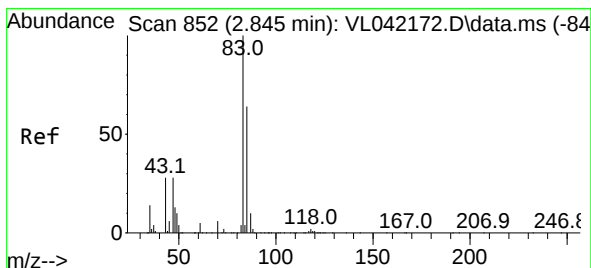
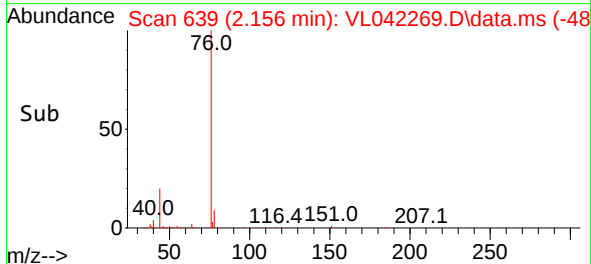
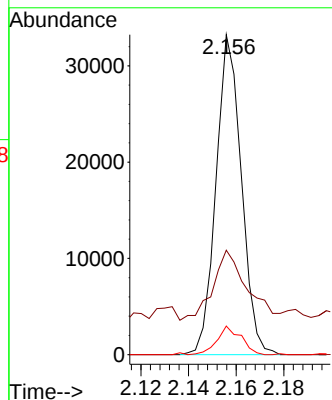
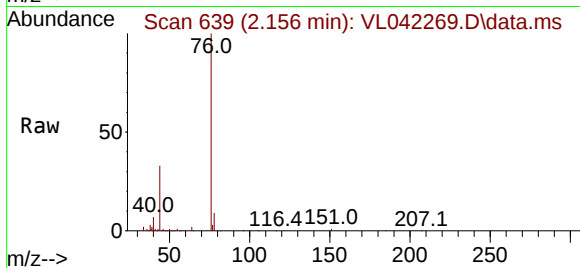




#27
Carbon Disulfide
Concen: 1.071 ppbv
RT: 2.156 min Scan# 61
Delta R.T. 0.009 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

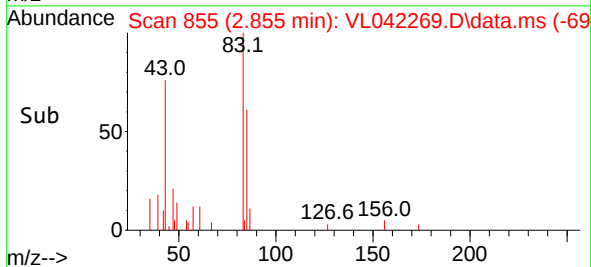
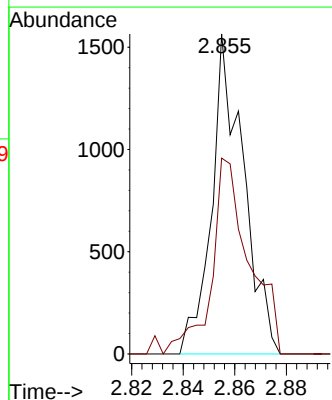
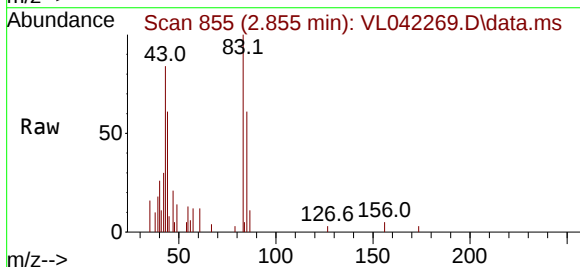
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

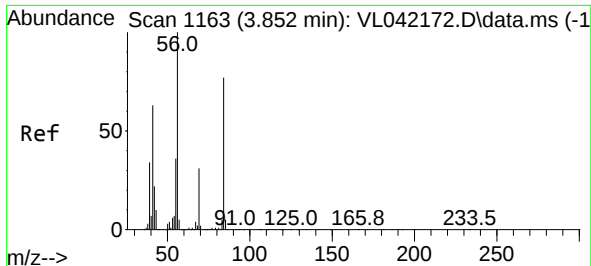
Tgt Ion: 76 Resp: 24533
Ion Ratio Lower Upper
76 100
44 53.6 14.7 22.1#
78 8.7 9.3 13.9#



#29
Chloroform
Concen: 0.043 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 83 Resp: 1343
Ion Ratio Lower Upper
83 100
85 61.2 51.4 77.2

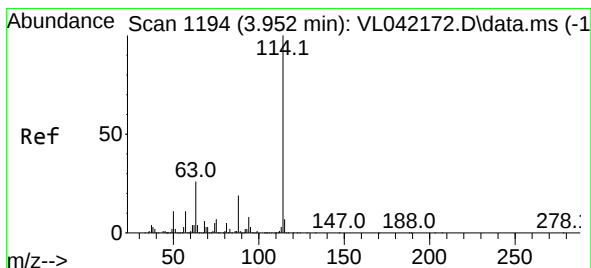
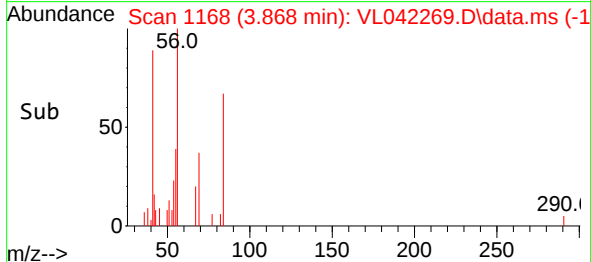
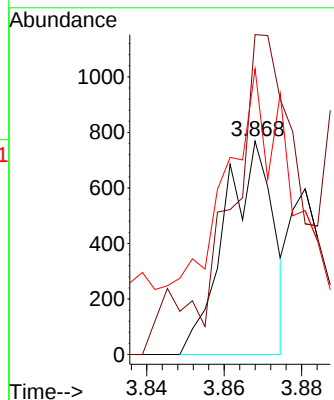
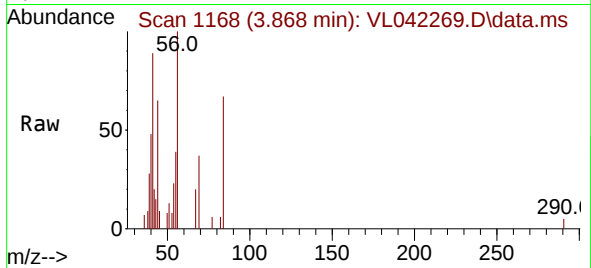




#30
Cyclohexane
Concen: 0.036 ppbv
RT: 3.868 min Scan# 1163
Delta R.T. 0.016 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

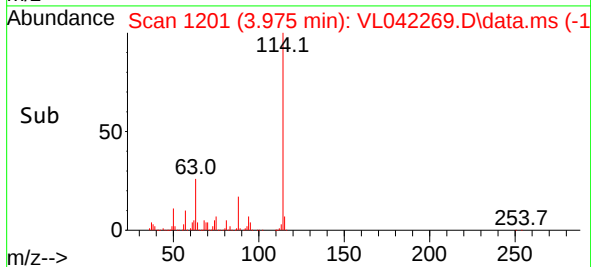
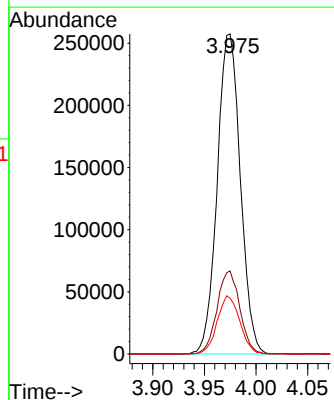
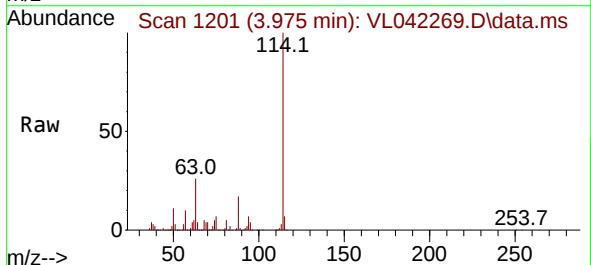
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

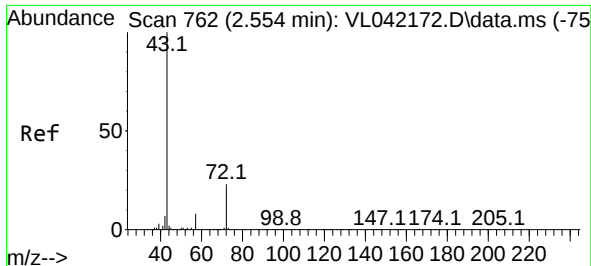
Tgt Ion: 84 Resp: 671
Ion Ratio Lower Upper
84 100
56 272.7 102.8 154.2#
41 294.5 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.022 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 114 Resp: 401198
Ion Ratio Lower Upper
114 100
63 25.6 20.7 31.1
88 17.7 15.0 22.4

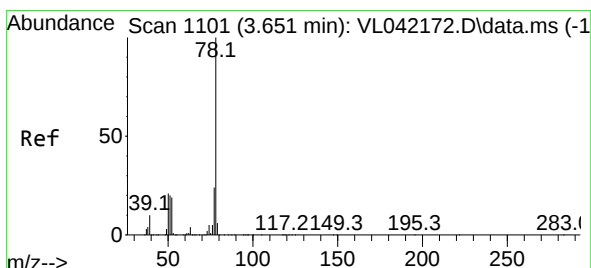
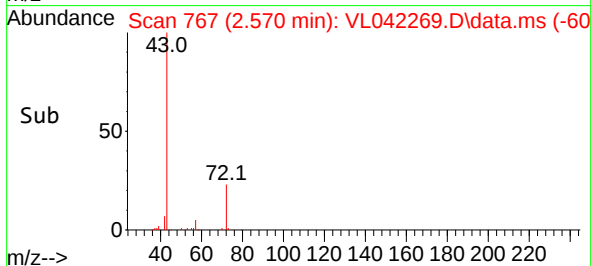
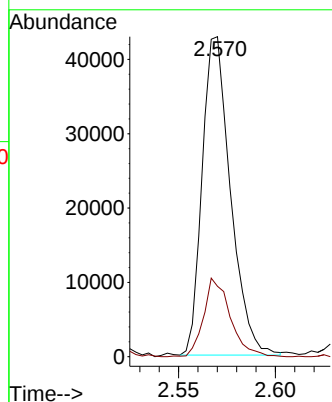
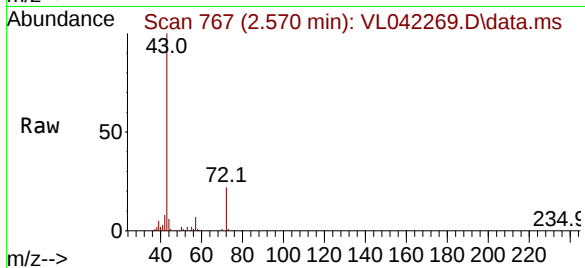




#34
2-Butanone
Concen: 1.504 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

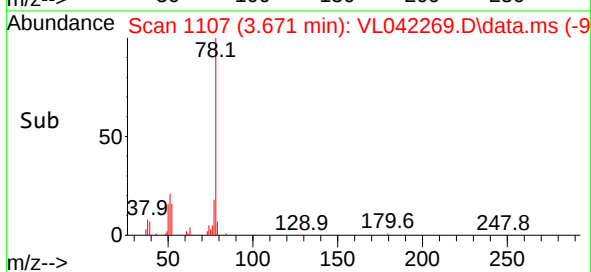
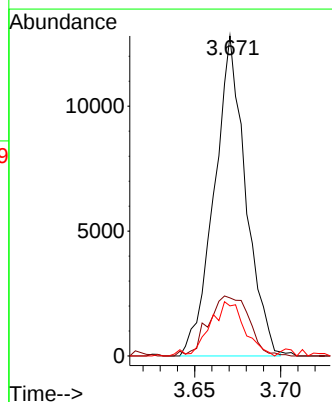
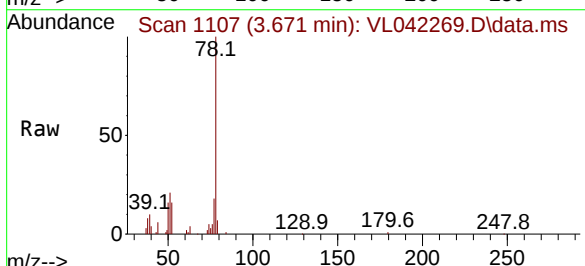
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

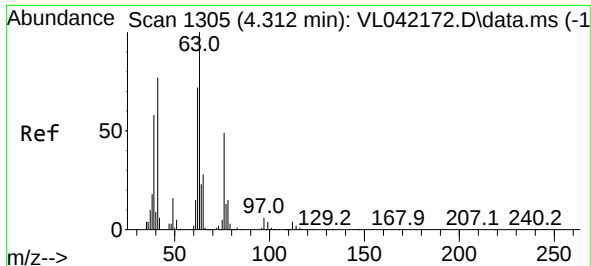
Tgt Ion: 43 Resp: 43752
Ion Ratio Lower Upper
43 100
72 23.2 18.2 27.2



#36
Benzene
Concen: 0.410 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 78 Resp: 16307
Ion Ratio Lower Upper
78 100
77 17.8 19.1 28.7#
50 14.3 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.076 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.337 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-7-04022025

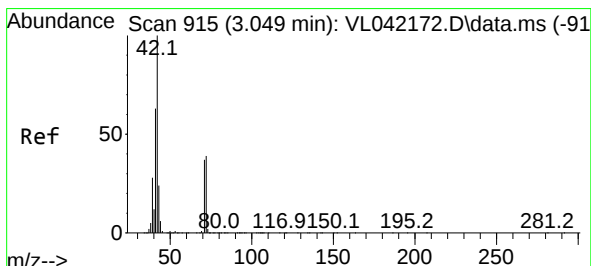
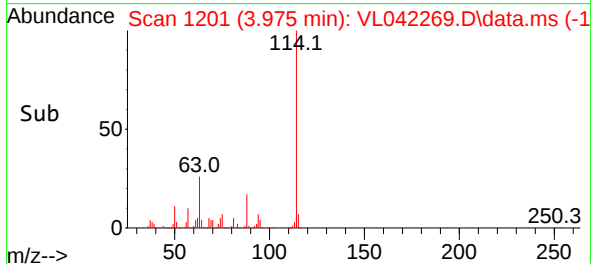
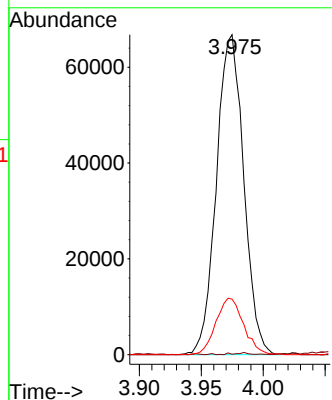
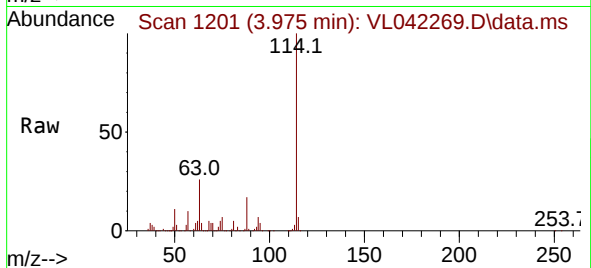
Tgt Ion: 63 Resp: 102497

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 17.4 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.035 ppbv

RT: 3.075 min Scan# 923

Delta R.T. 0.026 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

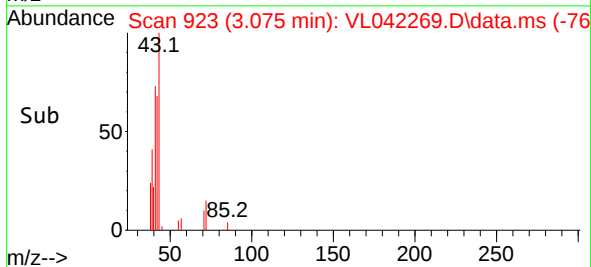
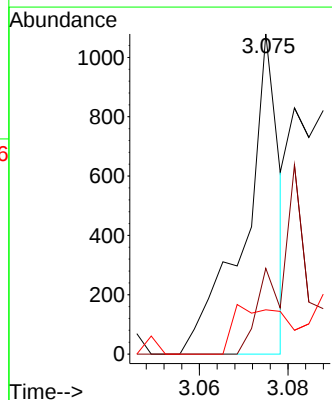
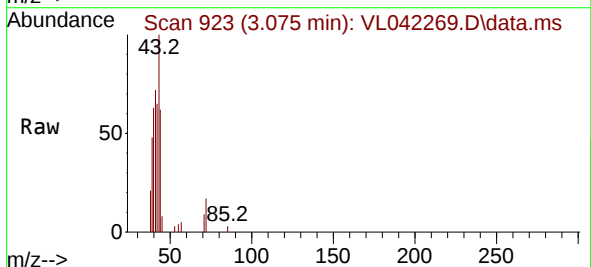
Tgt Ion: 42 Resp: 582

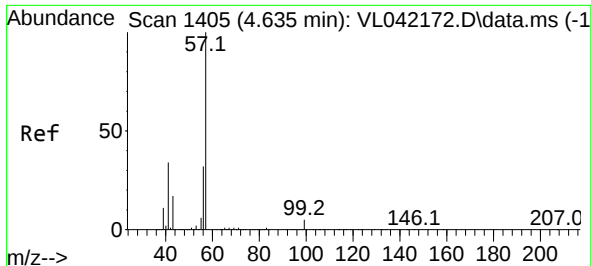
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 30.2 45.4#

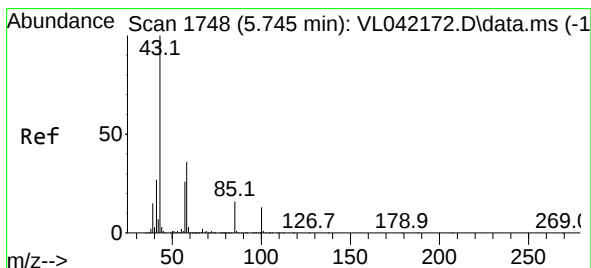
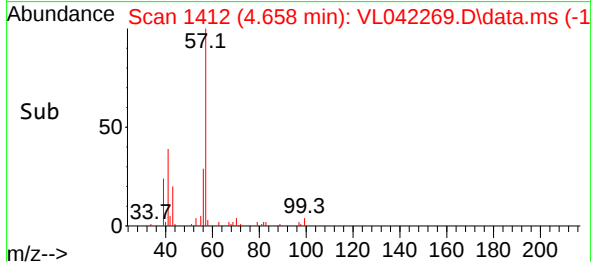
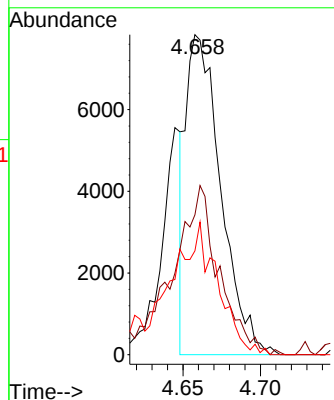
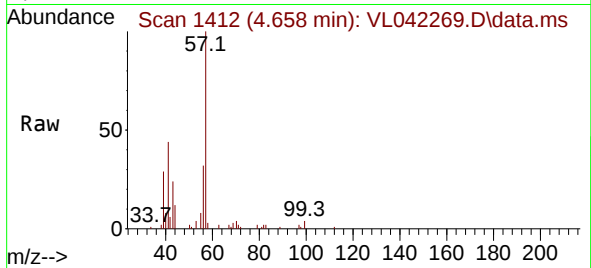




#44
 2,2,4-Trimethylpentane
 Concen: 0.182 ppbv
 RT: 4.658 min Scan# 1412
 Delta R.T. 0.022 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

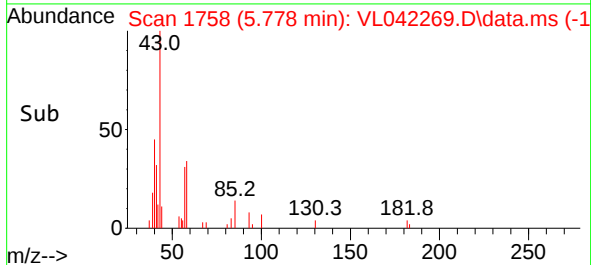
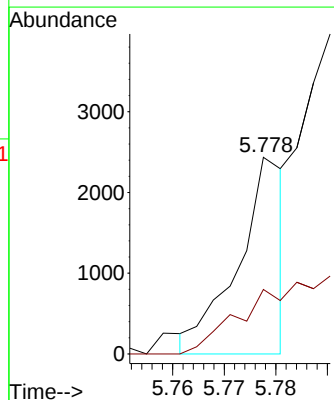
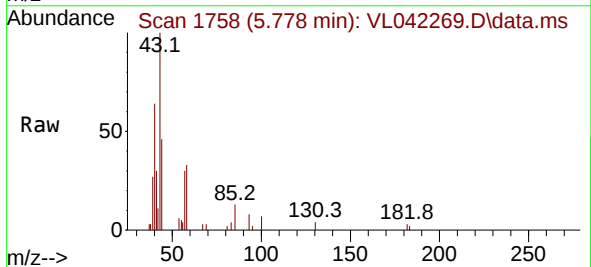
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025

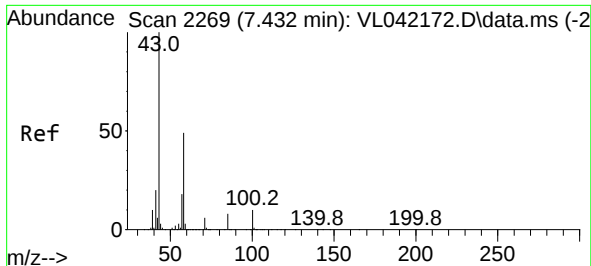
Tgt Ion: 57 Resp: 12251
 Ion Ratio Lower Upper
 57 100
 41 77.8 26.8 40.2#
 56 63.0 25.6 38.4#



#50
 4-Methyl-2-Pentanone
 Concen: 0.033 ppbv
 RT: 5.778 min Scan# 1758
 Delta R.T. 0.032 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

Tgt Ion: 43 Resp: 1527
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.0 43.6#

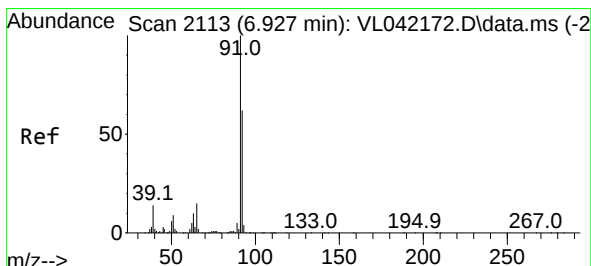
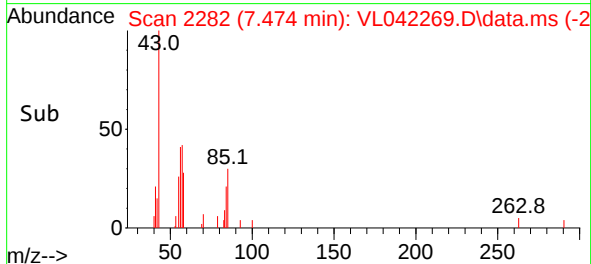
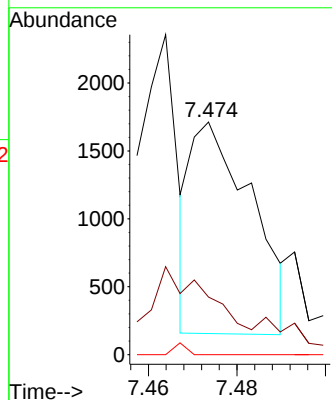
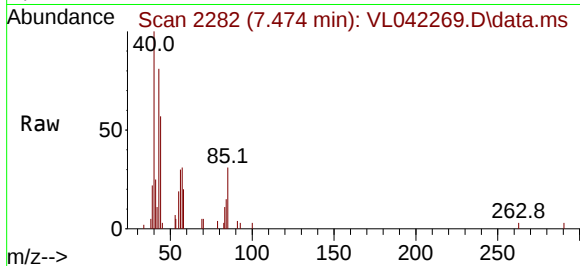




#51
2-Hexanone
Concen: 0.039 ppbv
RT: 7.474 min Scan# 2110
Delta R.T. 0.042 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

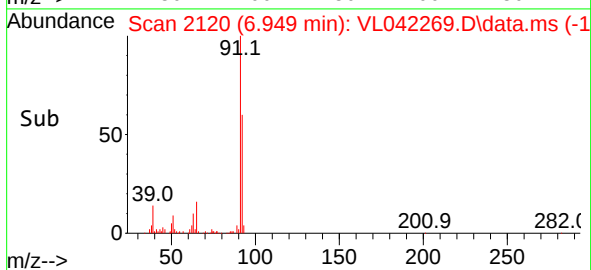
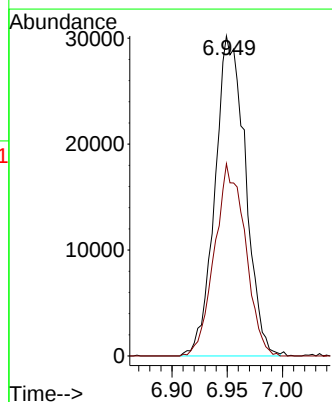
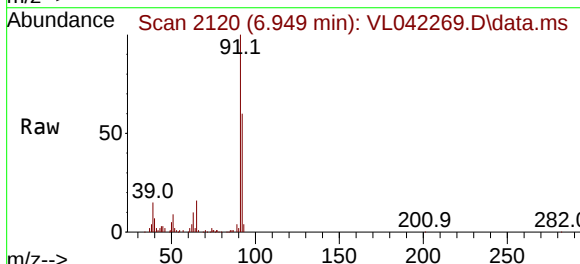
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

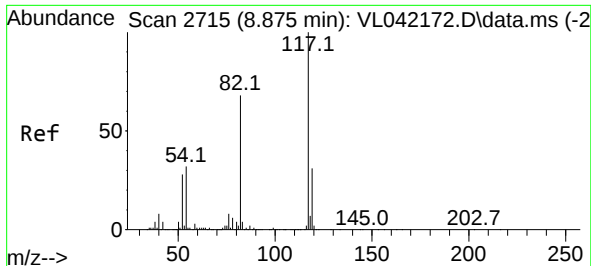
Tgt Ion: 43 Resp: 1495
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#



#53
Toluene
Concen: 1.226 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. 0.022 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 91 Resp: 57797
Ion Ratio Lower Upper
91 100
92 60.7 48.4 72.6

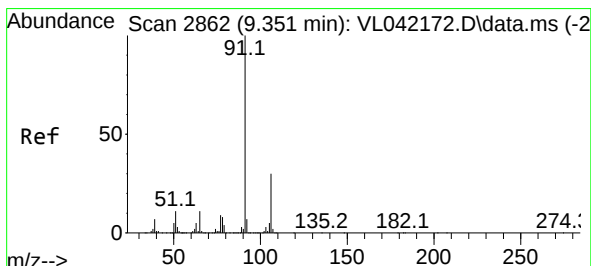
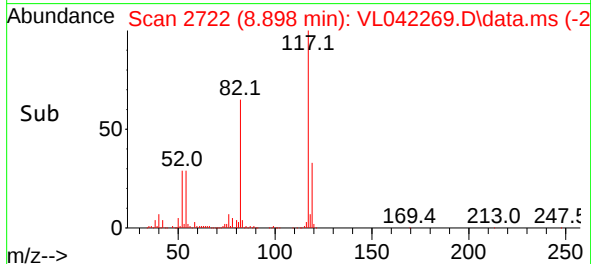
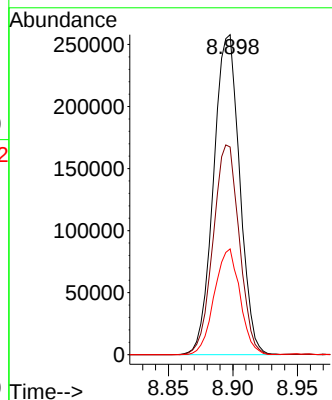
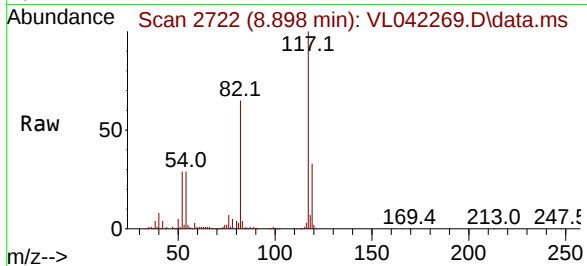




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

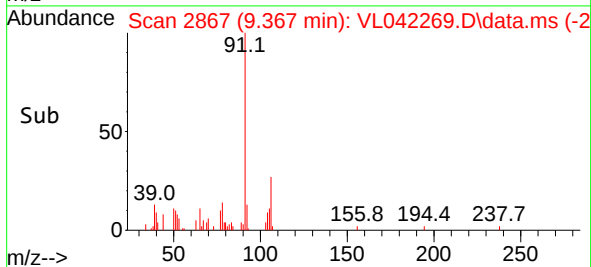
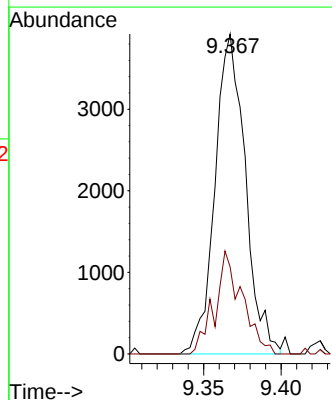
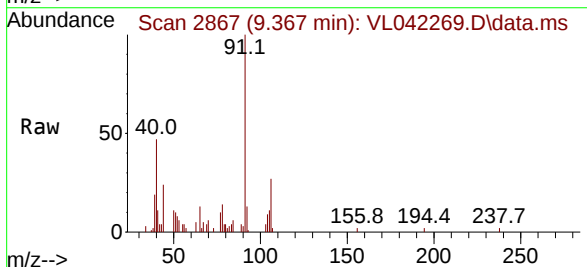
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-7-04022025

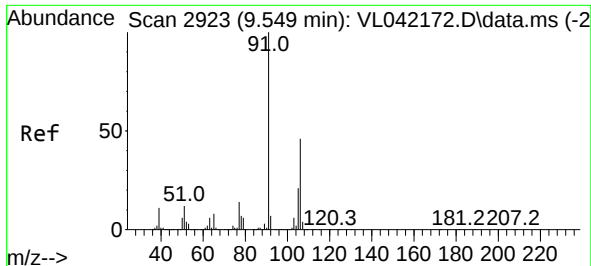
Tgt Ion:117 Resp: 362485
Ion Ratio Lower Upper
117 100
82 65.7 55.8 83.6
119 32.5 25.5 38.3



#58
Ethyl Benzene
Concen: 0.083 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.016 min
Lab File: VL042269.D
Acq: 08 Apr 2025 18:00

Tgt Ion: 91 Resp: 5340
Ion Ratio Lower Upper
91 100
106 27.2 24.2 36.2





#59

m/p-Xylene

Concen: 0.076 ppbv

RT: 9.561 min Scan# 2923

Delta R.T. 0.013 min

Lab File: VL042269.D

Acq: 08 Apr 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

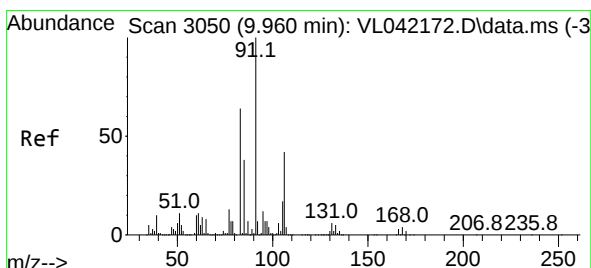
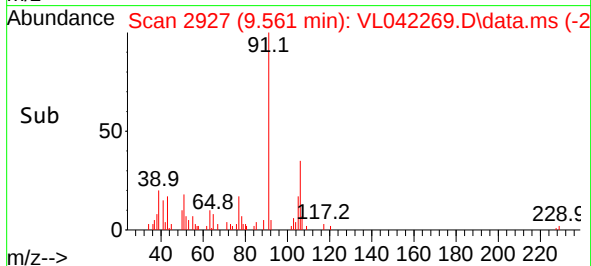
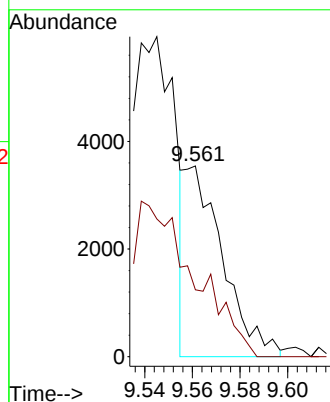
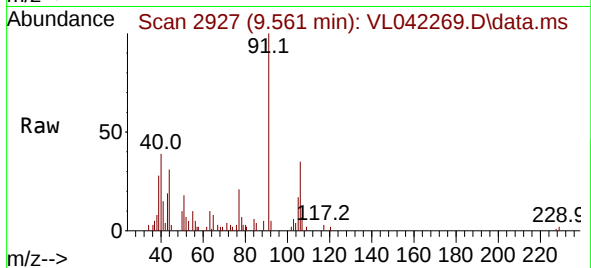
SSSG-B2-7-04022025

Tgt Ion: 91 Resp: 3891

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 0.077 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.016 min

Lab File: VL042269.D

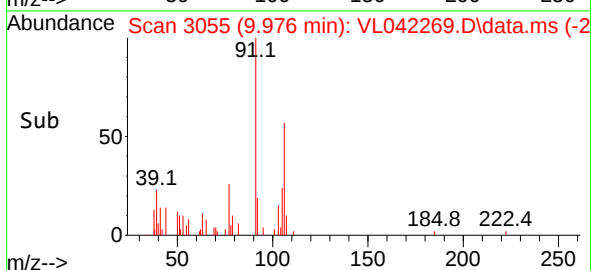
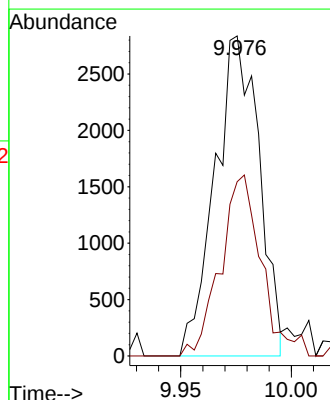
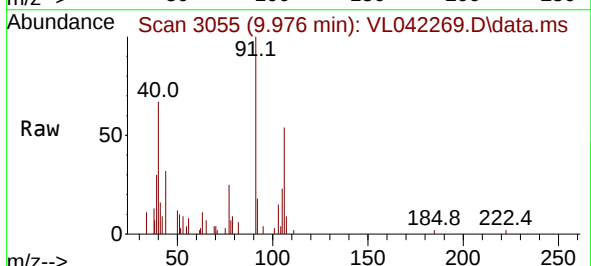
Acq: 08 Apr 2025 18:00

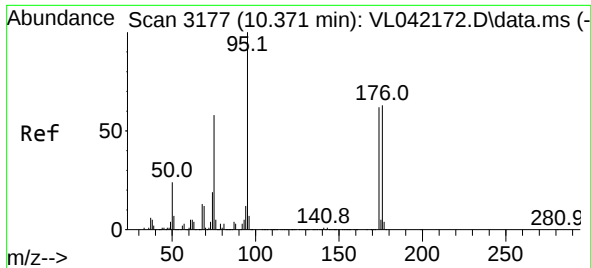
Tgt Ion: 91 Resp: 3943

Ion Ratio Lower Upper

91 100

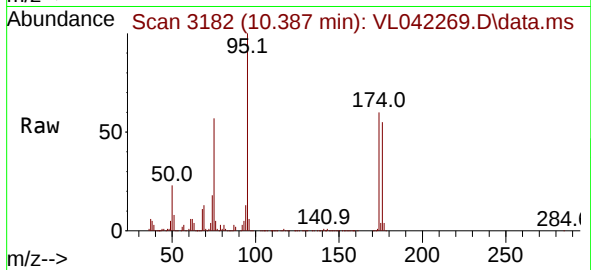
106 52.4 20.8 62.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.440 ppbv
 RT: 10.387 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: VL042269.D
 Acq: 08 Apr 2025 18:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-7-04022025



Tgt Ion: 95 Resp: 281014
 Ion Ratio Lower Upper
 95 100
 174 60.3 50.6 76.0
 175 4.6 3.8 5.6

