

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041525\
 Data File : VL042331.D
 Acq On : 15 Apr 2025 14:29
 Operator : SY/MD
 Sample : Q1665-18DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025DL

Quant Time: Apr 16 01:32:02 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)

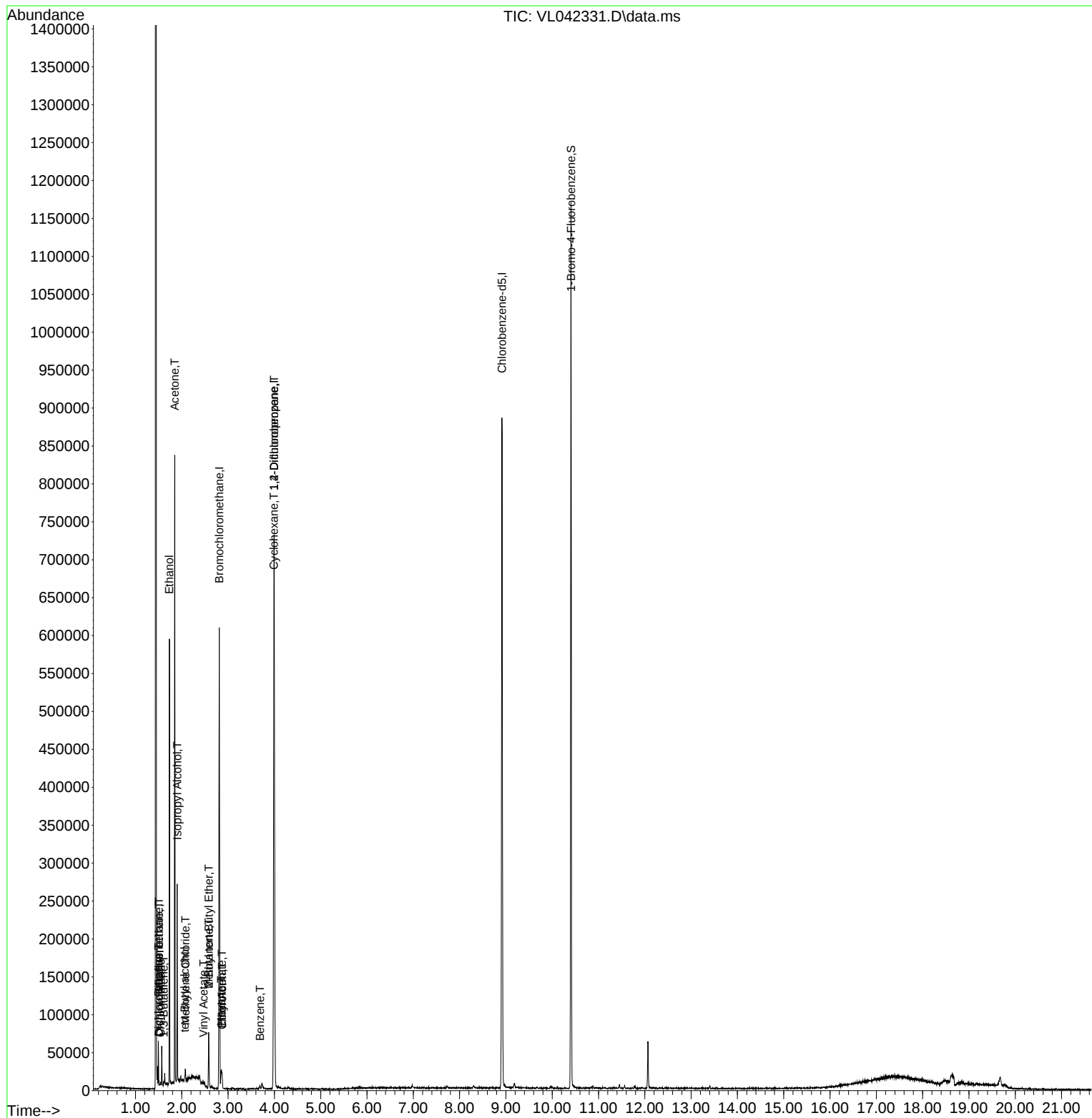
Internal Standards						
1) Bromochloromethane	2.810	49	168977	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	3.994	114	401158	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.914	117	339800	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.406	95	265292	9.507	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.508	85	1148	0.046	ppbv	91
4) Chloromethane	1.541	50	759	0.074	ppbv	96
8) Dichlorotetrafluoroethane	1.508	85	1148	0.054	ppbv #	17
9) Propene	1.495	41	4953	0.424	ppbv	90
13) Ethanol	1.732	45	197027	178.408	ppbv	81
15) Acetone	1.848	43	351816	14.887	ppbv	96
16) 1,3-Butadiene	1.612	39	585	0.051	ppbv #	67
17) tert-Butyl alcohol	2.062	59	1178	0.040	ppbv #	75
19) Isopropyl Alcohol	1.900	45	105242	7.893	ppbv #	35
20) Methylene Chloride	2.078	84	2080	0.236	ppbv	86
23) Vinyl Acetate	2.470	43	2892	0.283	ppbv #	44
25) Ethyl Acetate	2.865	43	10292	0.168	ppbv #	95
26) Hexane	2.852	57	4022	0.170	ppbv #	86
28) Methyl tert-Butyl Ether	2.583	73	473	0.032	ppbv #	1
29) Chloroform	2.871	83	4529	0.131	ppbv	89
30) Cyclohexane	3.988	84	1920	0.093	ppbv #	4
34) 2-Butanone	2.580	43	44053	1.514	ppbv	100
36) Benzene	3.687	78	2507	0.063	ppbv #	81
39) 1,2-Dichloropropane	3.994	63	104779	7.234	ppbv #	22

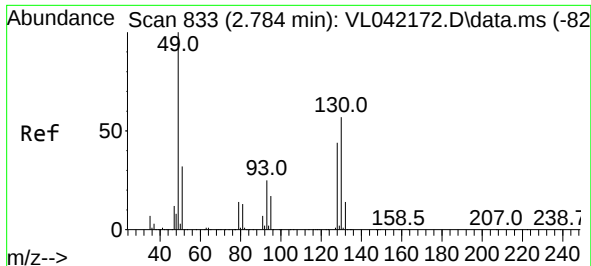
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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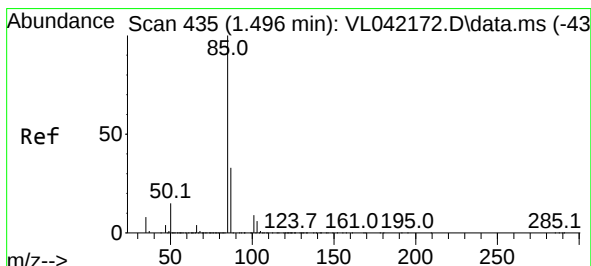
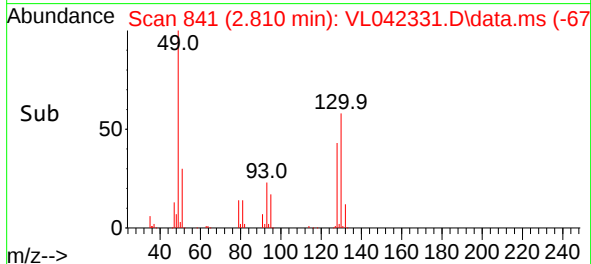
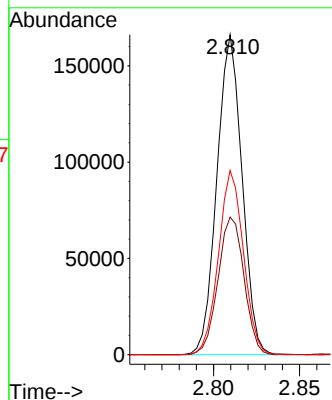
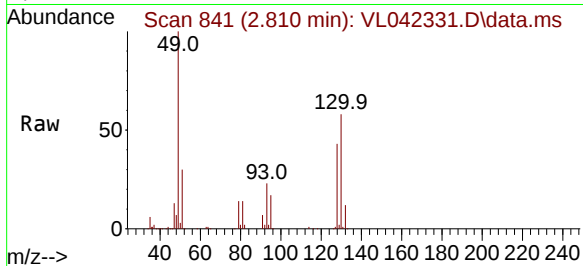




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

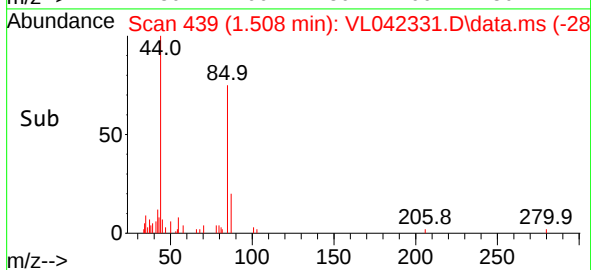
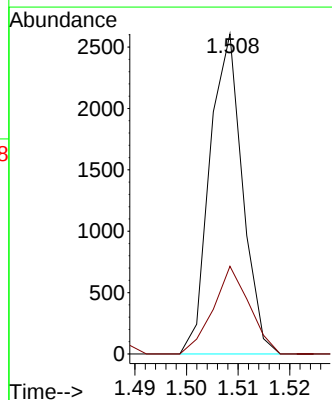
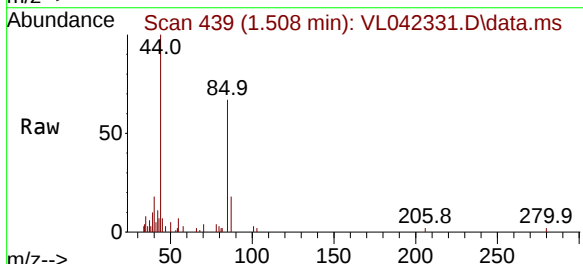
Instrument :
MSVOA_L
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IA-B10-3-3242025DL

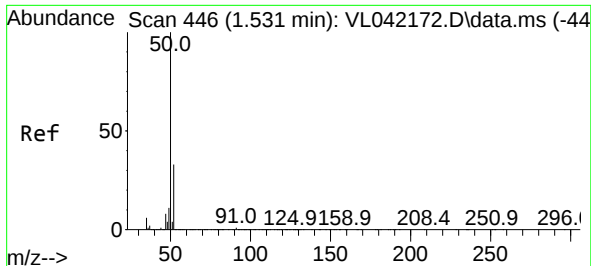
Tgt Ion: 49 Resp: 168977
Ion Ratio Lower Upper
49 100
128 44.4 22.9 68.5
130 57.3 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.508 min Scan# 439
Delta R.T. 0.013 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 85 Resp: 1148
Ion Ratio Lower Upper
85 100
87 27.4 26.1 39.1

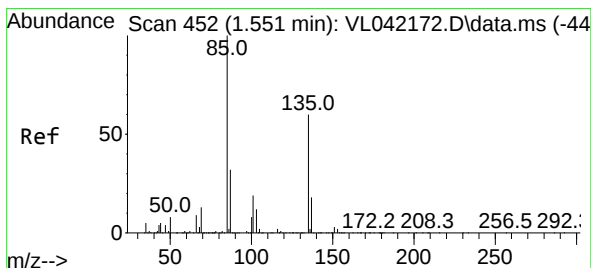
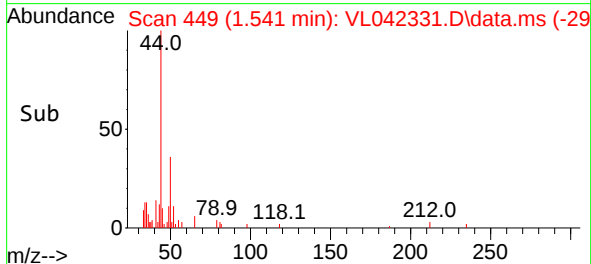
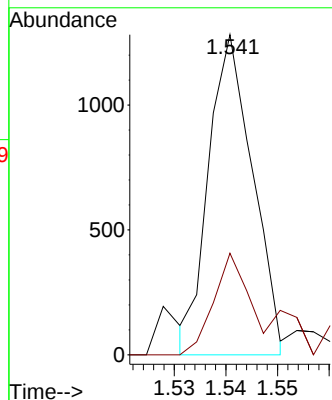
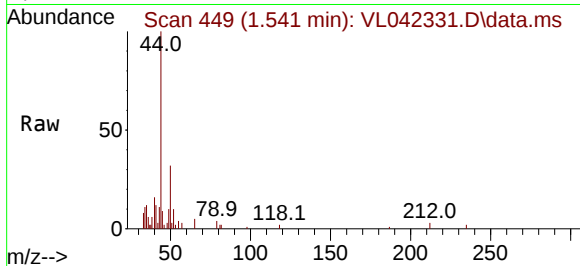




#4
Chloromethane
Concen: 0.074 ppbv
RT: 1.541 min Scan# 446
Delta R.T. 0.009 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

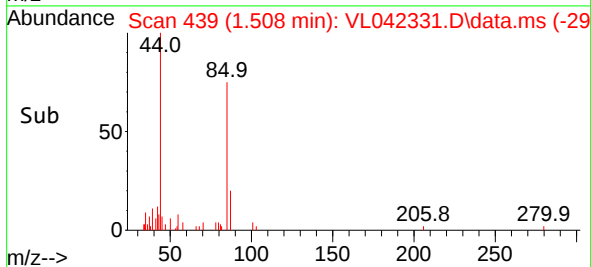
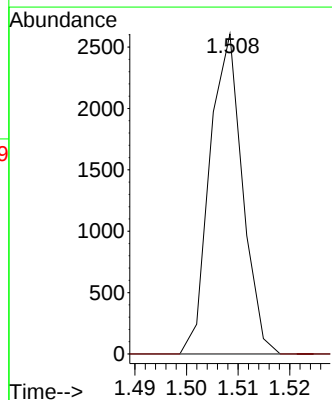
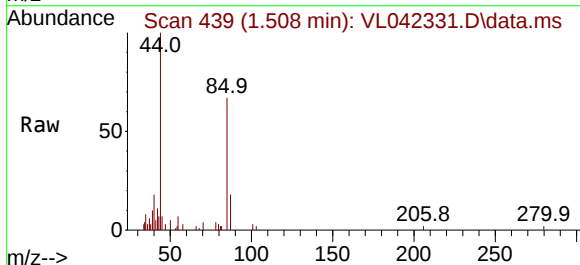
Instrument :
MSVOA_L
ClientSampleId :
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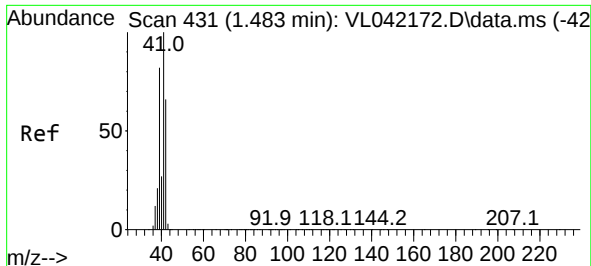
Tgt Ion: 50 Resp: 759
Ion Ratio Lower Upper
50 100
52 30.6 26.1 39.1



#8
Dichlorotetrafluoroethane
Concen: 0.054 ppbv
RT: 1.508 min Scan# 439
Delta R.T. -0.042 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 85 Resp: 1148
Ion Ratio Lower Upper
85 100
135 0.0 52.4 78.6#





#9

Propene

Concen: 0.424 ppbv

RT: 1.495 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

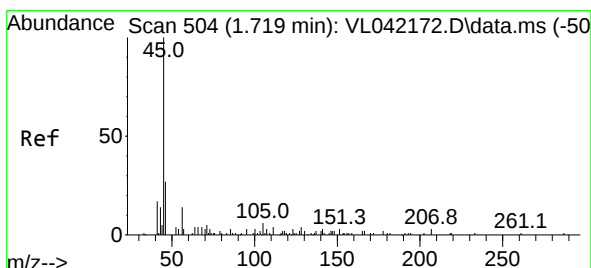
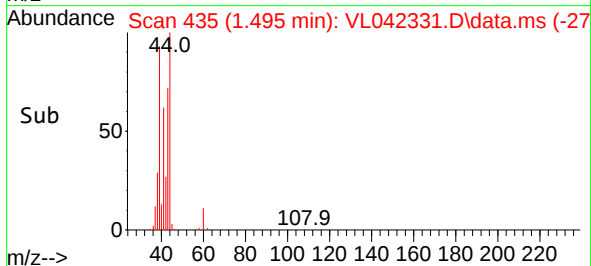
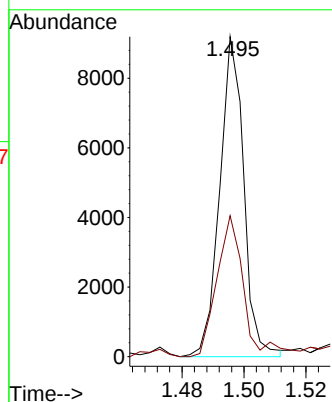
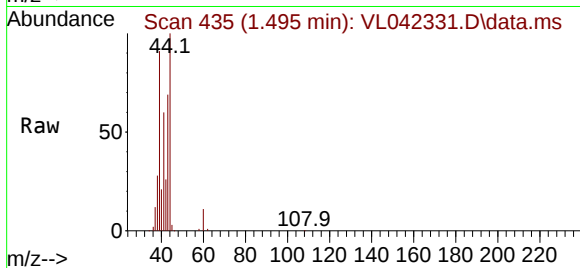
IA-B10-3-3242025DL

Tgt Ion: 41 Resp: 4953

Ion Ratio Lower Upper

41 100

42 61.5 55.4 83.2



#13

Ethanol

Concen: 178.408 ppbv

RT: 1.732 min Scan# 508

Delta R.T. 0.013 min

Lab File: VL042331.D

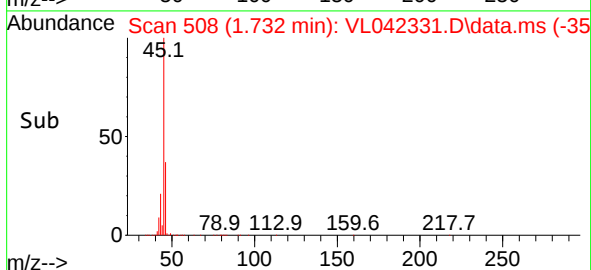
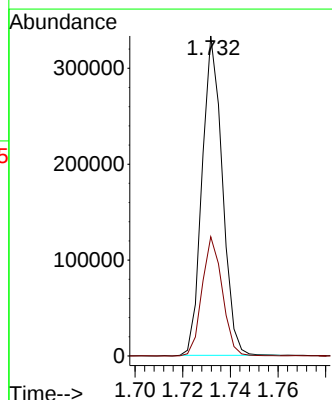
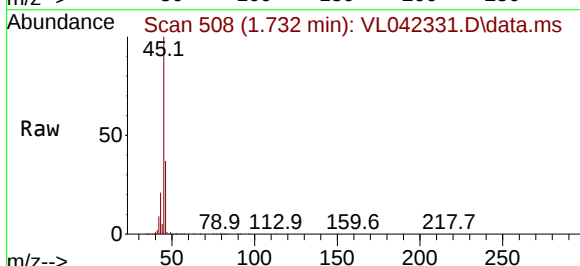
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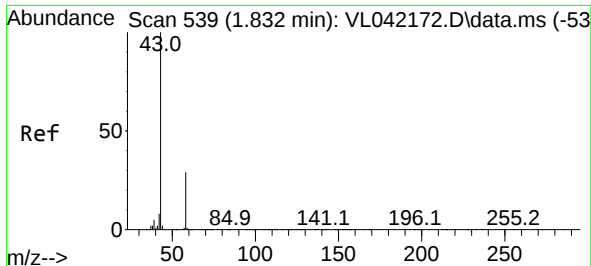
Tgt Ion: 45 Resp: 197027

Ion Ratio Lower Upper

45 100

46 37.5 20.2 80.8

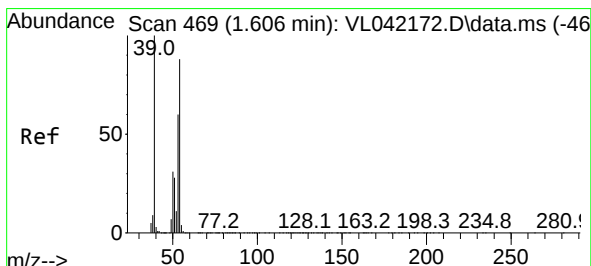
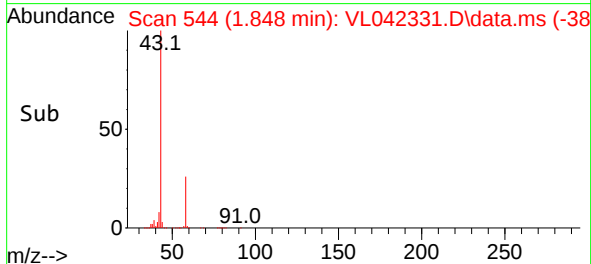
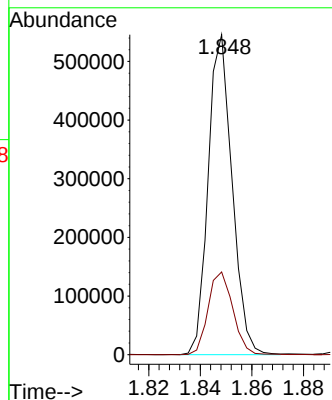
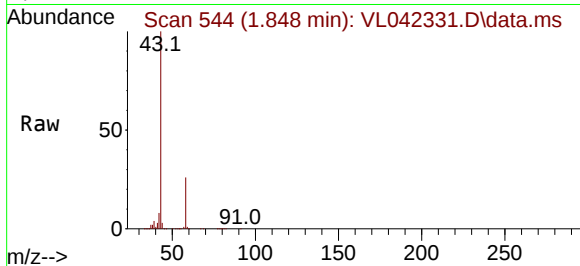




#15
Acetone
Concen: 14.887 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.016 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

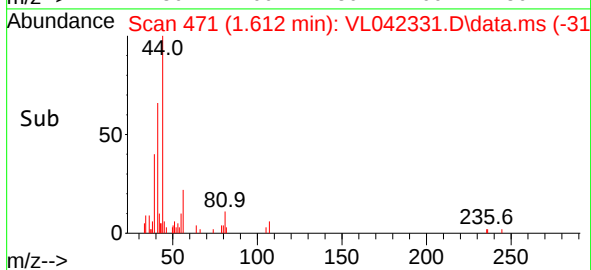
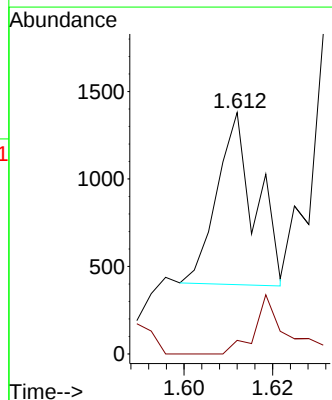
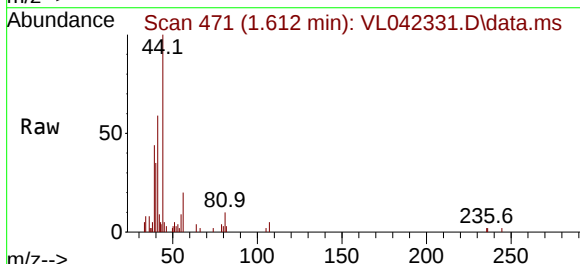
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

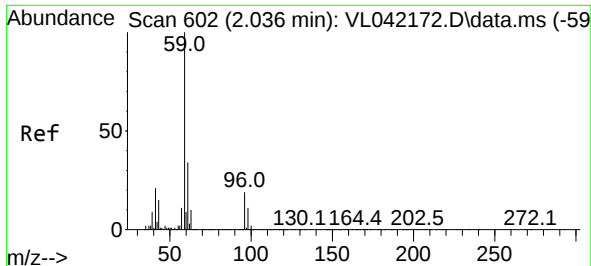
Tgt Ion: 43 Resp: 351816
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8



#16
1,3-Butadiene
Concen: 0.051 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.006 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 39 Resp: 585
Ion Ratio Lower Upper
39 100
54 47.7 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.040 ppbv

RT: 2.062 min Scan# 61

Delta R.T. 0.026 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

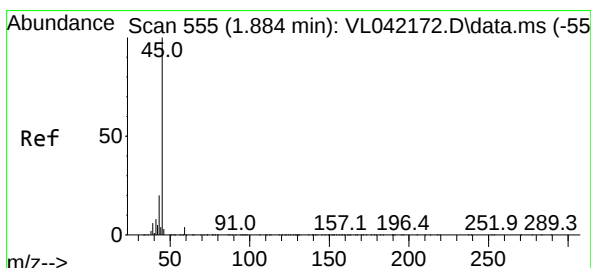
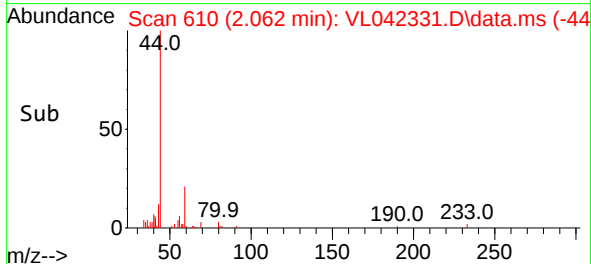
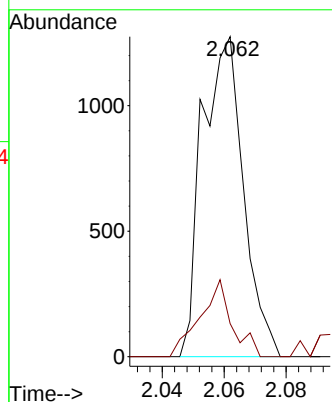
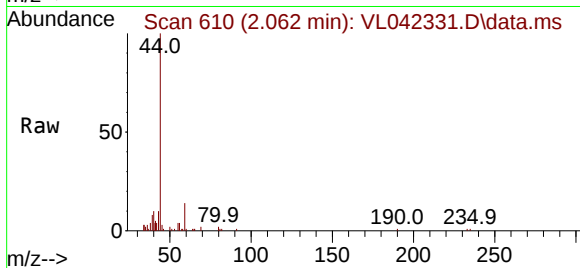
IA-B10-3-3242025DL

Tgt Ion: 59 Resp: 1178

Ion Ratio Lower Upper

59 100

57 20.8 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 7.893 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.016 min

Lab File: VL042331.D

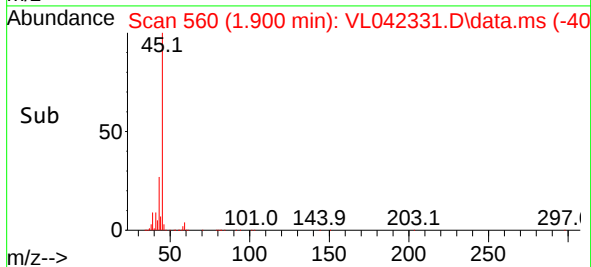
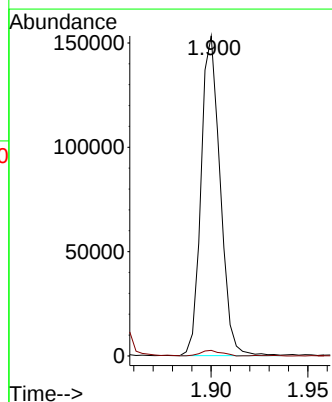
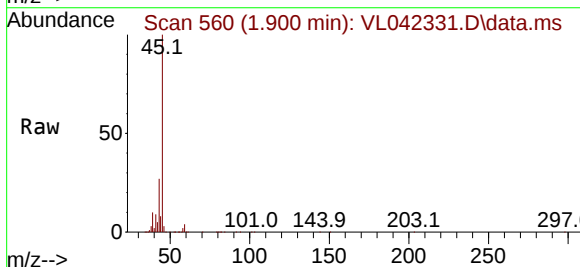
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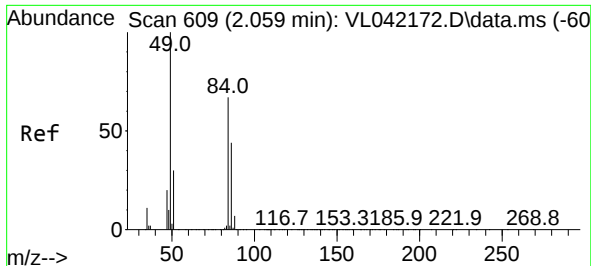
Tgt Ion: 45 Resp: 105242

Ion Ratio Lower Upper

45 100

58 89.3 36.9 55.3#

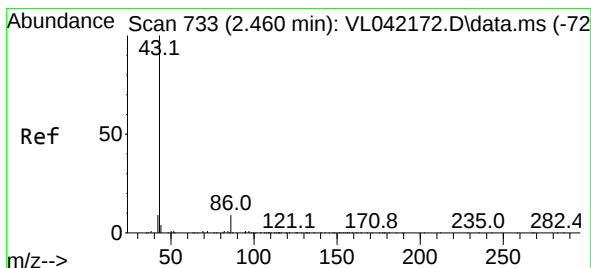
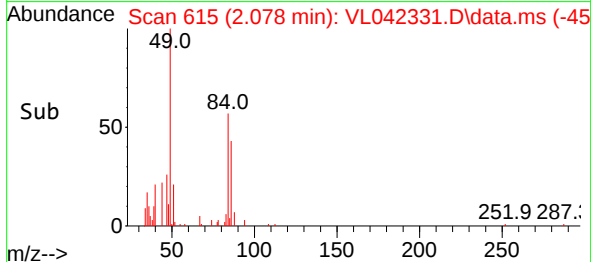
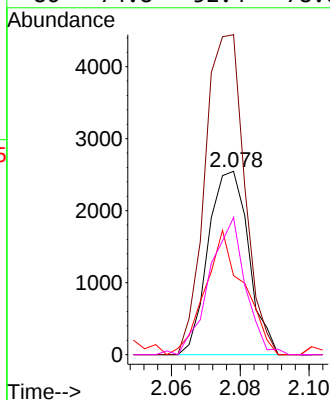
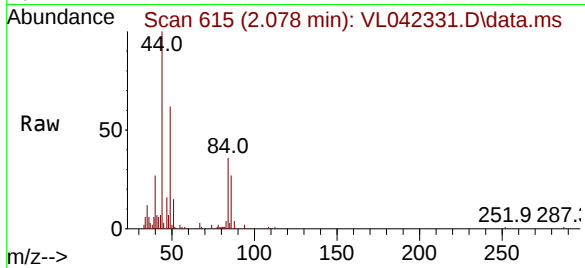




#20
Methylene Chloride
Concen: 0.236 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.019 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

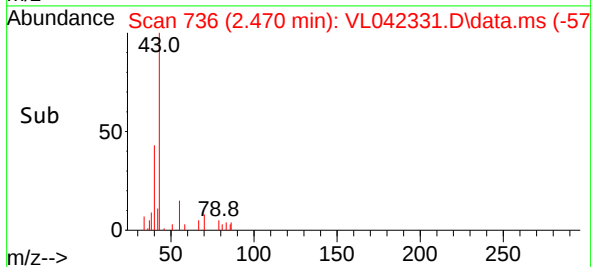
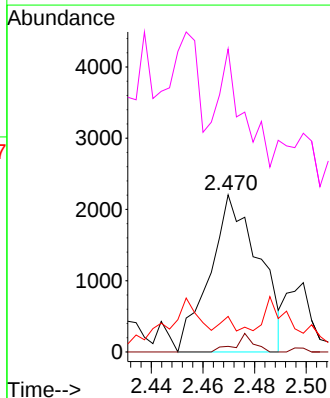
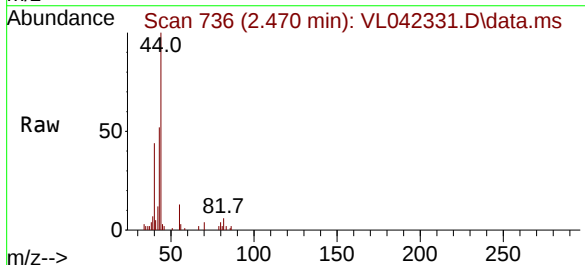
Instrument :
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IA-B10-3-3242025DL

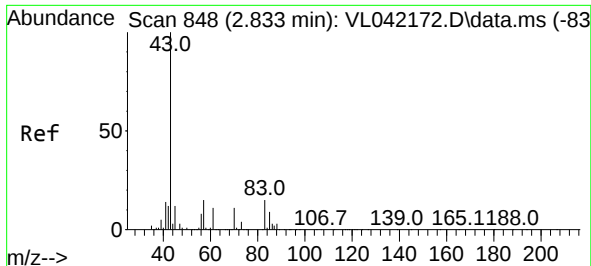
Tgt Ion: 84	Resp: 2080
Ion Ratio	Lower Upper
84 100	
49 174.5	120.2 180.4
51 46.8	37.4 56.0
86 74.8	52.4 78.6



#23
Vinyl Acetate
Concen: 0.283 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.009 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 43	Resp: 2892
Ion Ratio	Lower Upper
43 100	
86 3.5	5.5 8.3#
42 2.0	8.6 13.0#
44 58.2	6.2 9.4#

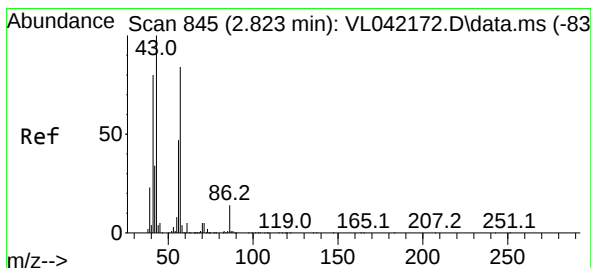
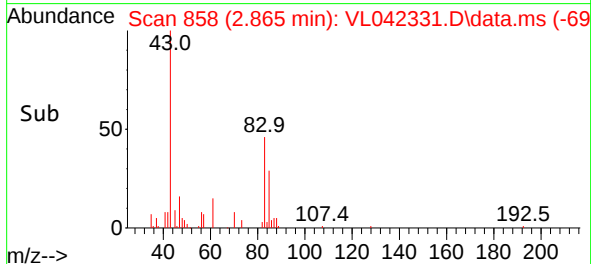
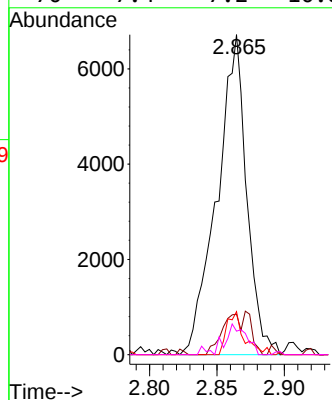
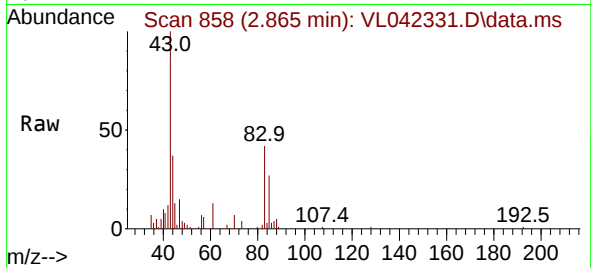




#25
Ethyl Acetate
Concen: 0.168 ppbv
RT: 2.865 min Scan# 81
Delta R.T. 0.032 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

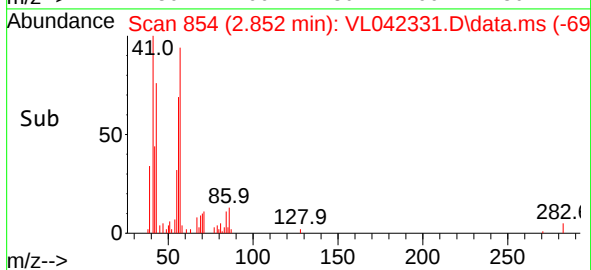
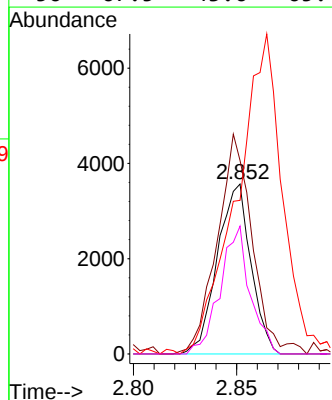
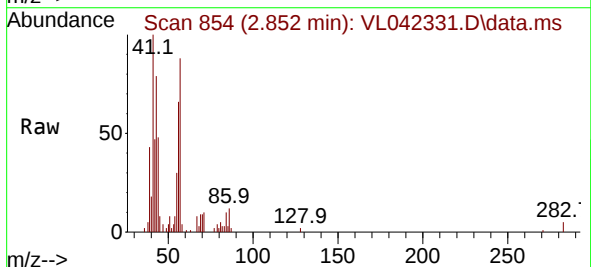
Instrument :
MSVOA_L
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IA-B10-3-3242025DL

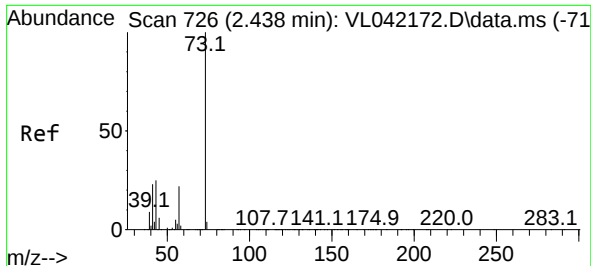
Tgt Ion: 43 Resp: 10292
Ion Ratio Lower Upper
43 100
45 12.7 8.2 12.2#
61 8.0 7.3 10.9
70 7.4 7.2 10.8



#26
Hexane
Concen: 0.170 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.029 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 57 Resp: 4022
Ion Ratio Lower Upper
57 100
41 141.6 76.6 114.8#
43 262.3 207.8 311.8
56 67.5 43.6 65.4#

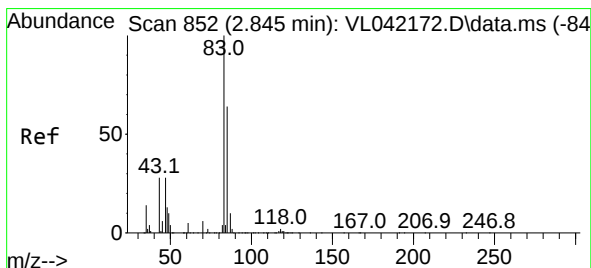
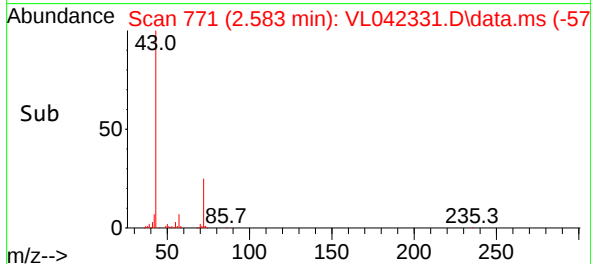
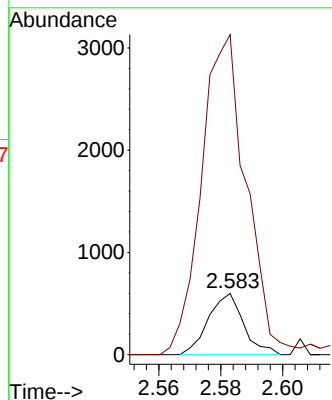
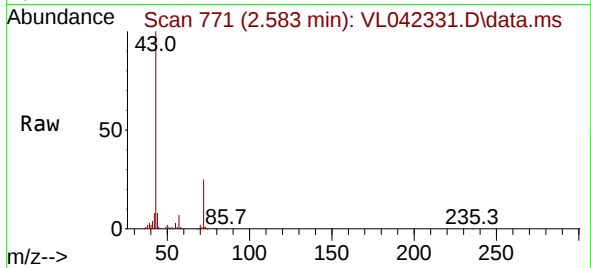




#28
Methyl tert-Butyl Ether
Concen: 0.032 ppbv
RT: 2.583 min Scan# 71
Delta R.T. 0.145 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

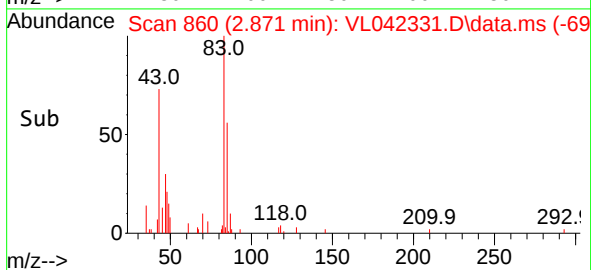
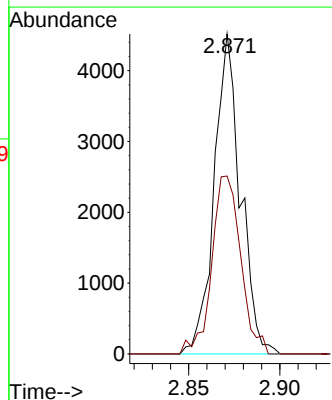
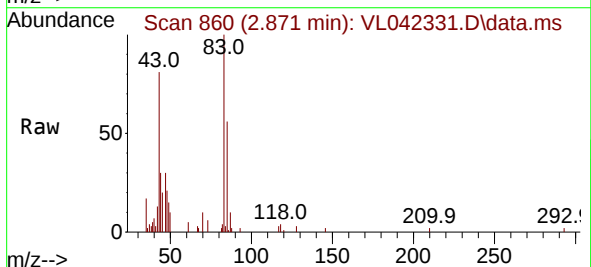
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

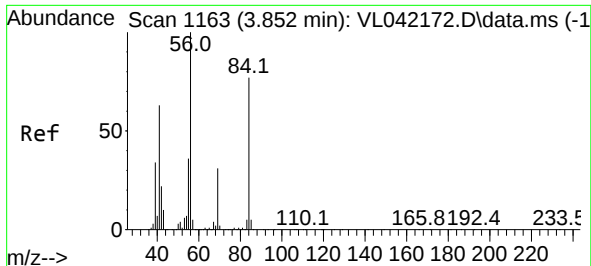
Tgt Ion: 73 Resp: 473
Ion Ratio Lower Upper
73 100
57 679.1 20.5 30.7#



#29
Chloroform
Concen: 0.131 ppbv
RT: 2.871 min Scan# 860
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 83 Resp: 4529
Ion Ratio Lower Upper
83 100
85 55.6 51.4 77.2

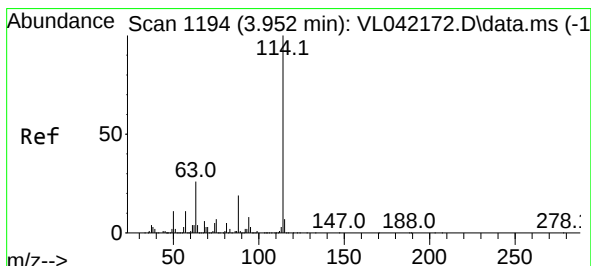
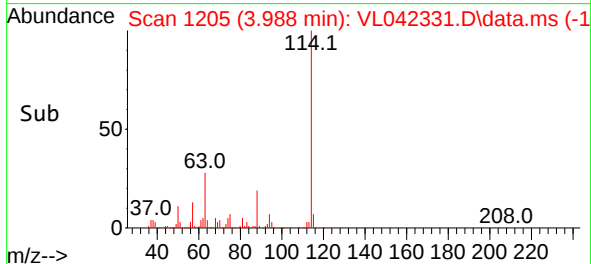
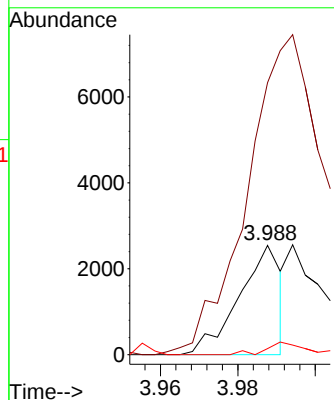
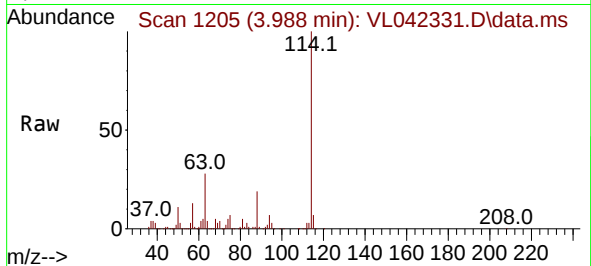




#30
Cyclohexane
Concen: 0.093 ppbv
RT: 3.988 min Scan# 1163
Delta R.T. 0.136 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

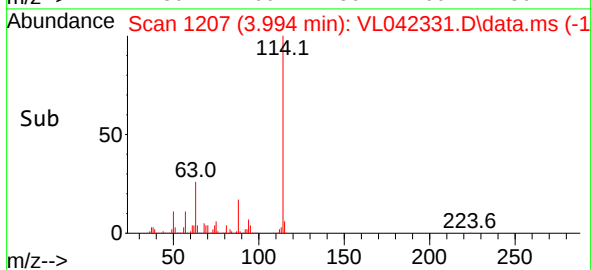
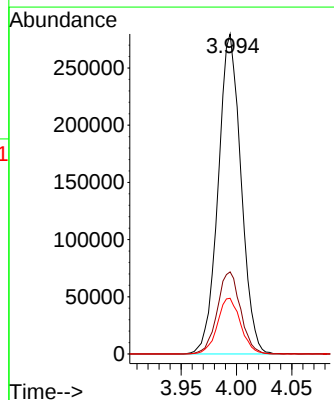
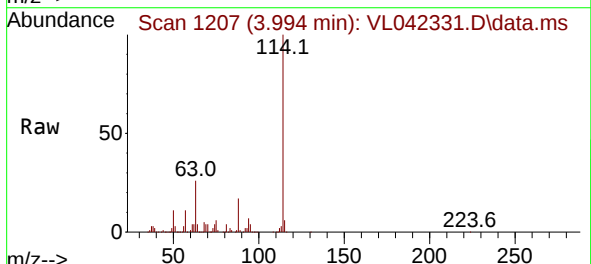
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

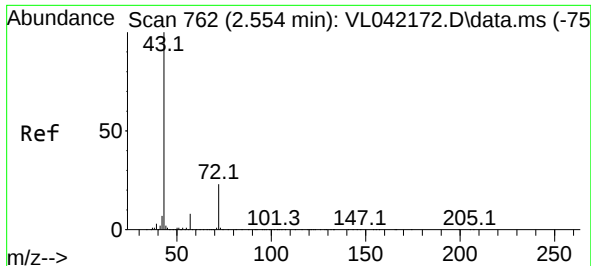
Tgt Ion: 84 Resp: 1920
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 16.9 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.042 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 114 Resp: 401158
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.7 15.0 22.4

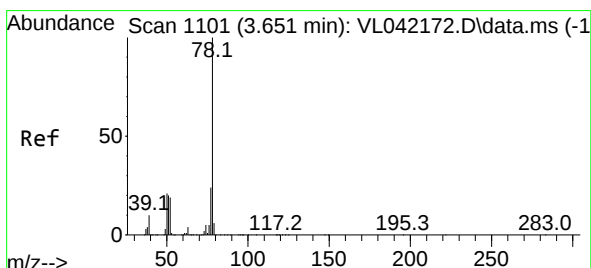
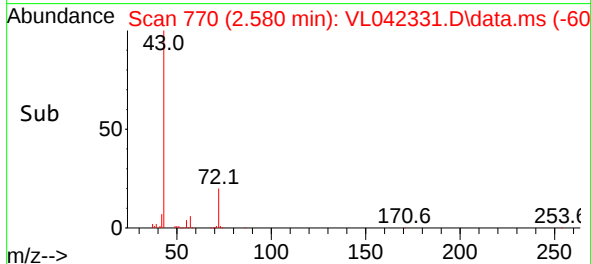
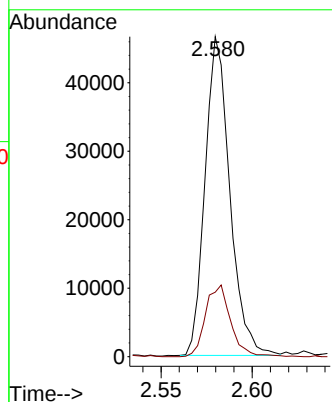
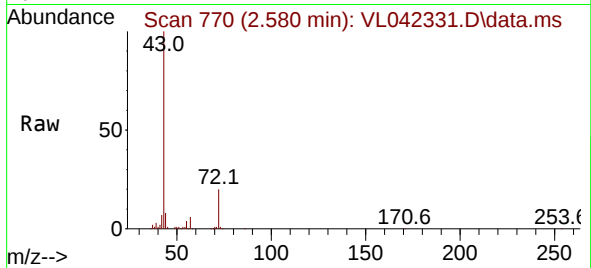




#34
2-Butanone
Concen: 1.514 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

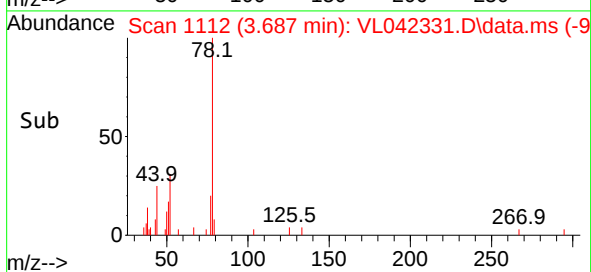
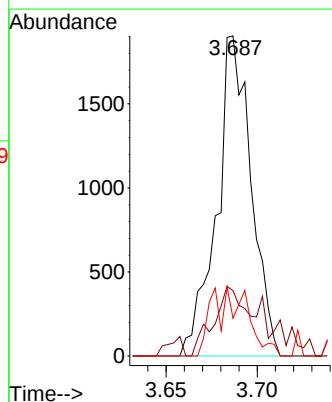
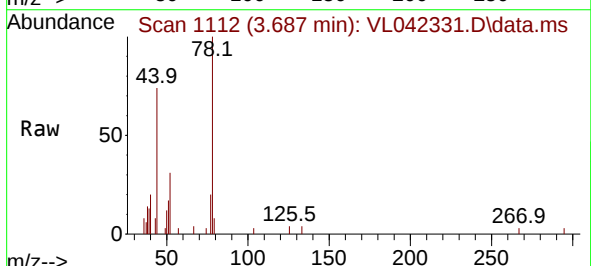
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-3-3242025DL

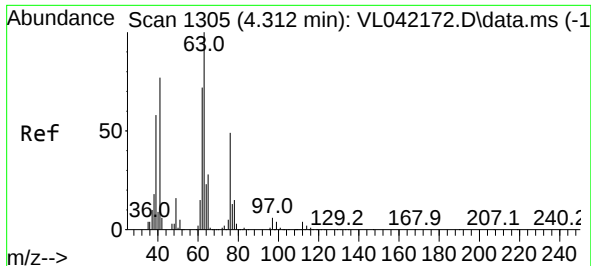
Tgt Ion: 43 Resp: 44053
Ion Ratio Lower Upper
43 100
72 22.9 18.2 27.2



#36
Benzene
Concen: 0.063 ppbv
RT: 3.687 min Scan# 1112
Delta R.T. 0.035 min
Lab File: VL042331.D
Acq: 15 Apr 2025 14:29

Tgt Ion: 78 Resp: 2507
Ion Ratio Lower Upper
78 100
77 14.3 19.1 28.7#
50 11.8 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.234 ppbv

RT: 3.994 min Scan# 11

Delta R.T. -0.317 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-3-3242025DL

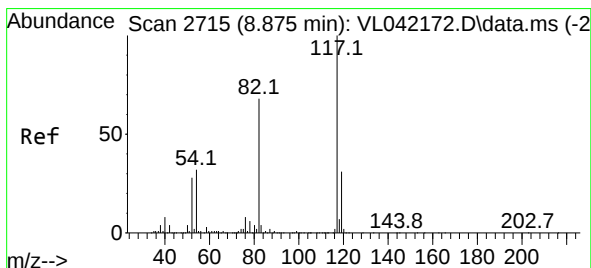
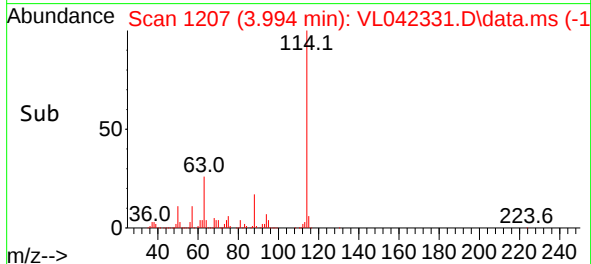
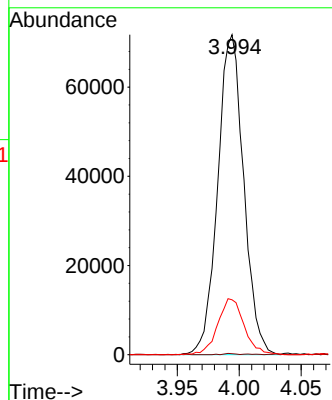
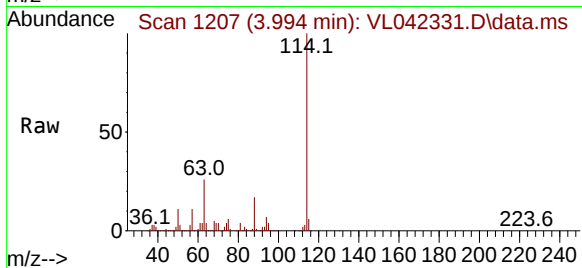
Tgt Ion: 63 Resp: 104779

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 17.1 57.6 86.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.914 min Scan# 2727

Delta R.T. 0.039 min

Lab File: VL042331.D

Acq: 15 Apr 2025 14:29

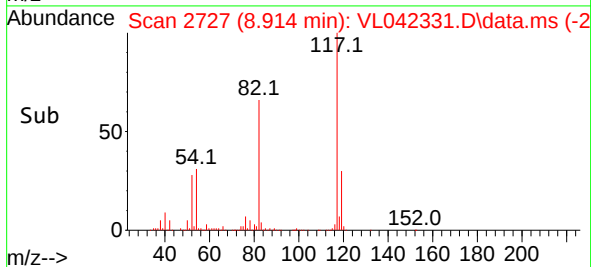
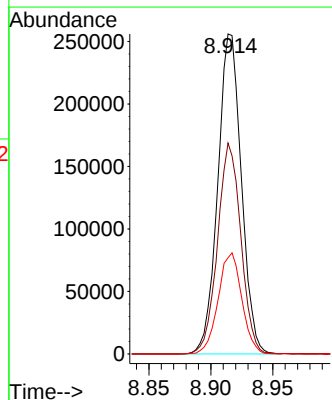
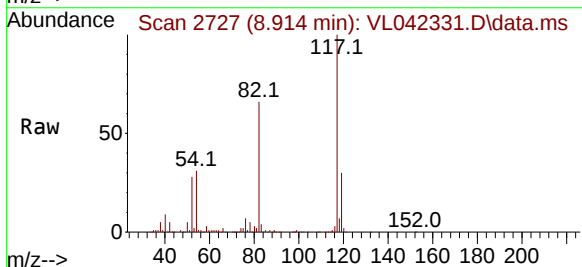
Tgt Ion: 117 Resp: 339800

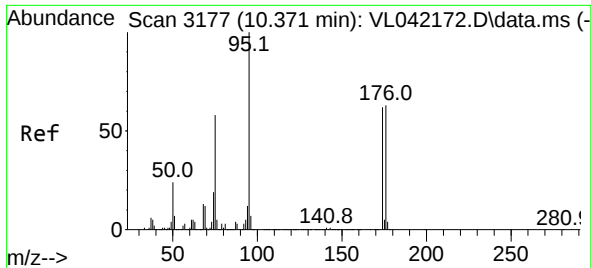
Ion Ratio Lower Upper

117 100

82 65.2 55.8 83.6

119 31.8 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.507 ppbv
 RT: 10.406 min Scan# 31
 Delta R.T. 0.035 min
 Lab File: VL042331.D
 Acq: 15 Apr 2025 14:29

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-3-3242025DL

Tgt Ion: 95 Resp: 265292
 Ion Ratio Lower Upper
 95 100
 174 64.1 50.6 76.0
 175 4.7 3.8 5.6

