

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042134.D
 Acq On : 10 Mar 2025 20:03
 Operator : SY/MD
 Sample : Q1533-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Mar 11 01:30:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	159732	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	372131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	309256	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	240649	10.115	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

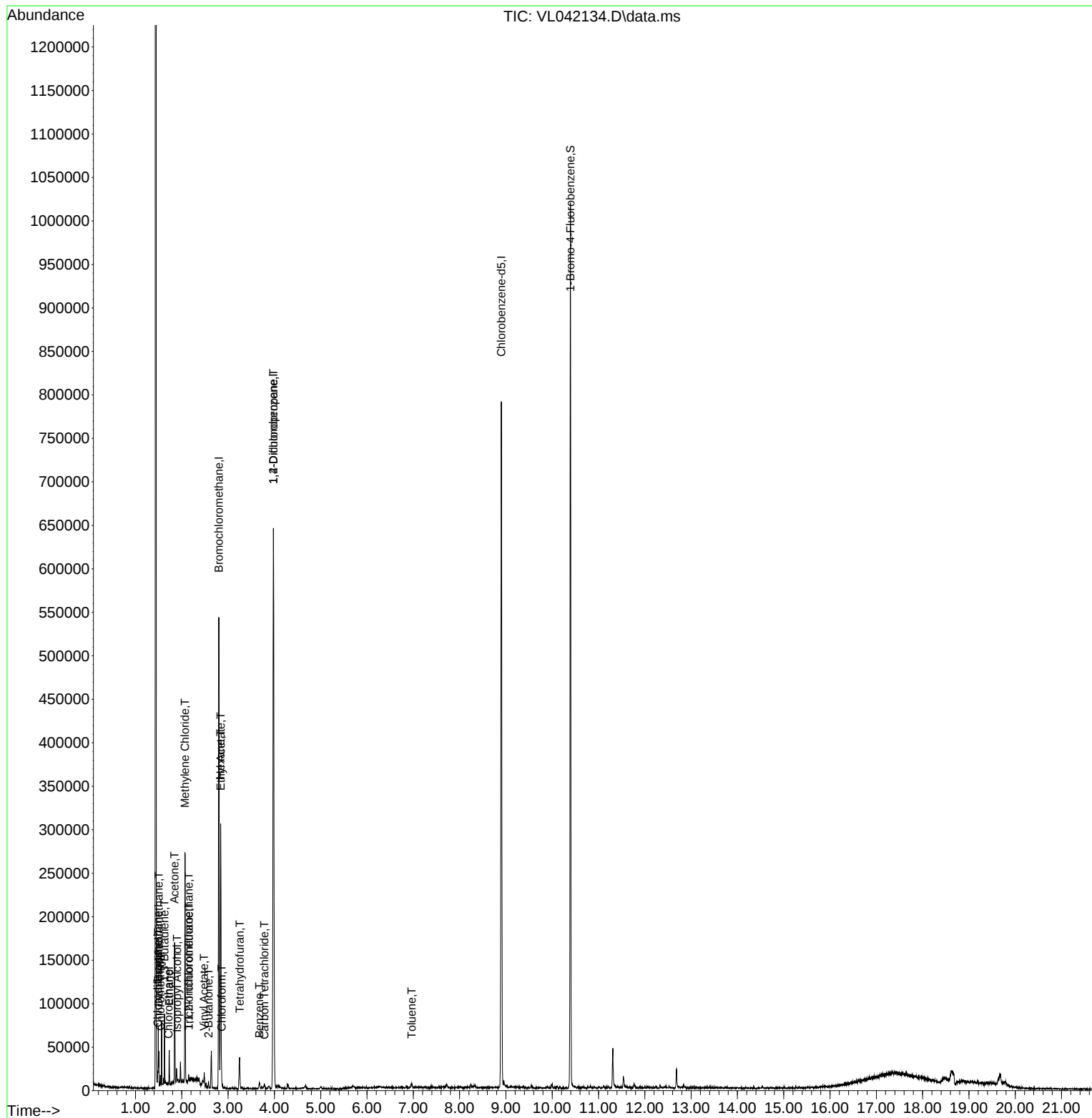
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.502	85	9840	0.592	ppbv	97
3) Chlorodifluoromethane	1.479	51	7889	0.340	ppbv	96
4) Chloromethane	1.538	50	3561	0.580	ppbv	90
7) Chloroethane	1.712	64	101	0.043	ppbv #	39
9) Propene	1.492	41	4059	0.429	ppbv	83
11) Trichlorofluoromethane	2.149	101	1232	0.074	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	1232	0.093	ppbv	98
13) Ethanol	1.729	45	14287	23.797	ppbv	93
15) Acetone	1.842	43	74138	5.256	ppbv	99
16) 1,3-Butadiene	1.625	39	3816	0.581	ppbv #	27
19) Isopropyl Alcohol	1.897	45	3229	0.399	ppbv #	1
20) Methylene Chloride	2.068	84	41194	7.720	ppbv	95
23) Vinyl Acetate	2.480	43	2284	0.230	ppbv #	21
25) Ethyl Acetate	2.842	43	48086	0.852	ppbv #	78
26) Hexane	2.839	57	64539	2.827	ppbv #	33
29) Chloroform	2.861	83	2180	0.071	ppbv #	57
34) 2-Butanone	2.577	43	4611	0.159	ppbv	99
35) Carbon Tetrachloride	3.781	117	1039	0.040	ppbv	96
36) Benzene	3.674	78	2000	0.051	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	94200	6.371	ppbv #	22
41) Tetrahydrofuran	3.250	42	2725	0.159	ppbv #	38
53) Toluene	6.962	91	1309	0.030	ppbv #	1

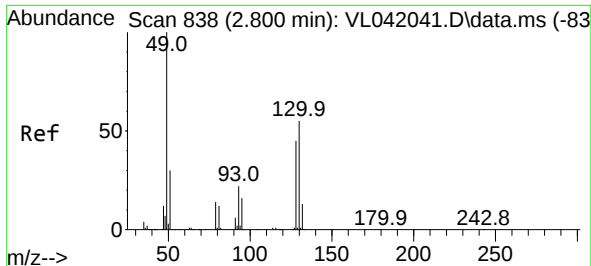
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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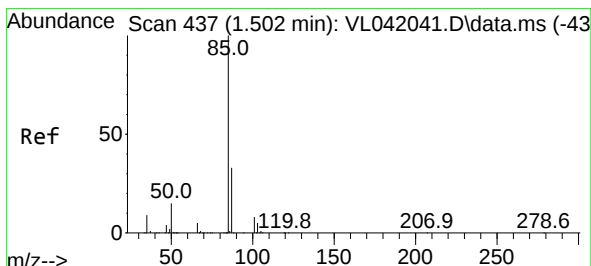
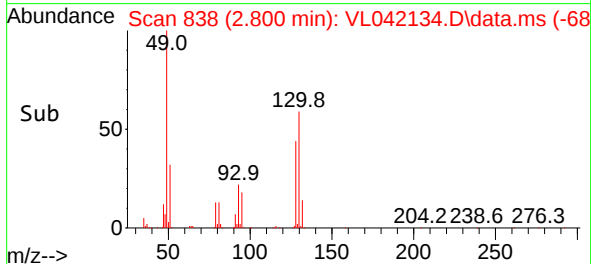
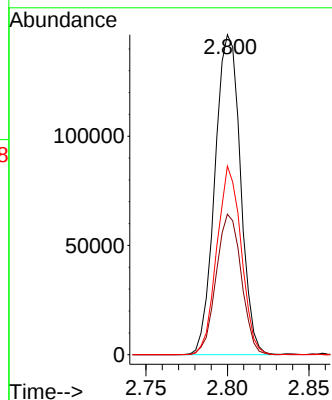
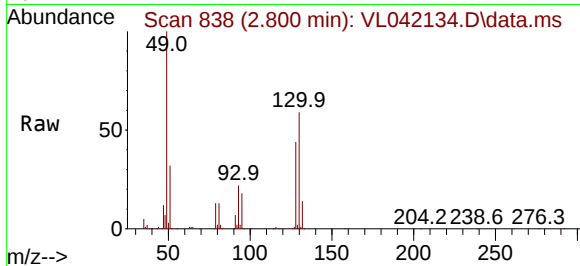




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

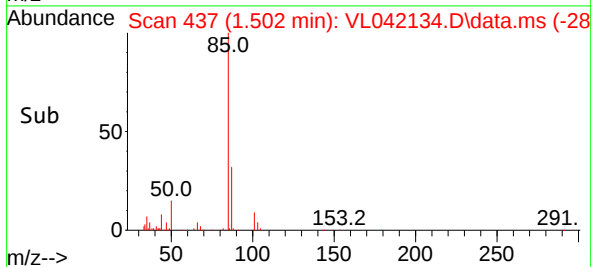
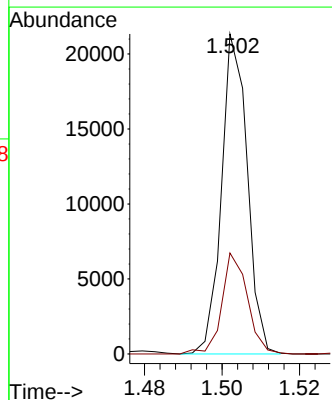
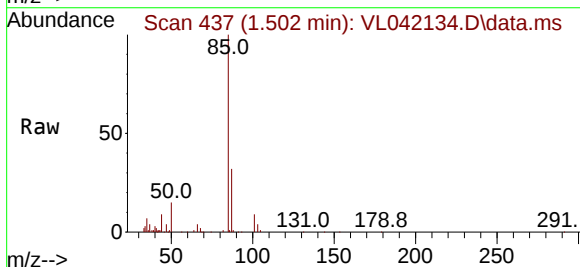
Instrument :
MSVOA_L
ClientSampleId :
OA1

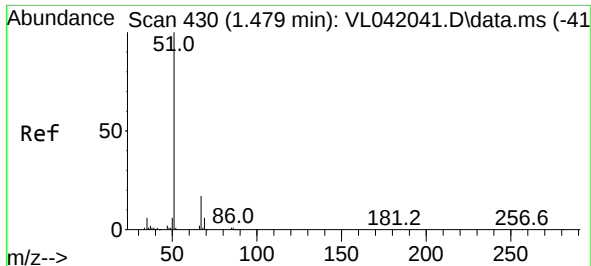
Tgt Ion: 49 Resp: 159732
Ion Ratio Lower Upper
49 100
128 43.2 21.6 64.8
130 56.2 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.592 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 85 Resp: 9840
Ion Ratio Lower Upper
85 100
87 31.6 26.4 39.6

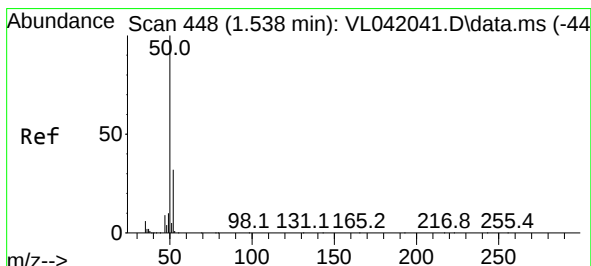
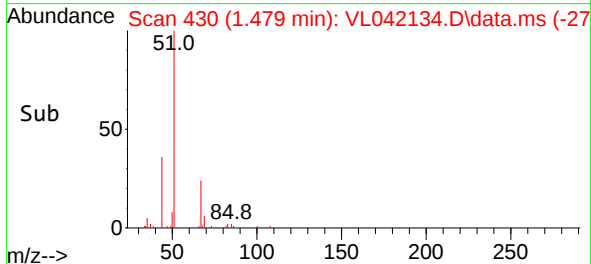
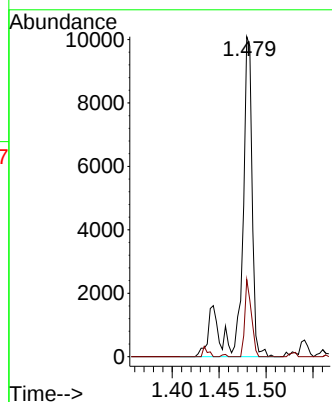
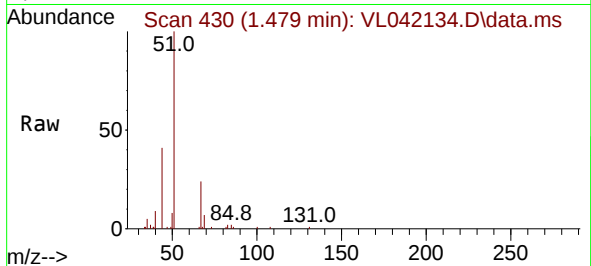




#3
Chlorodifluoromethane
Concen: 0.340 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

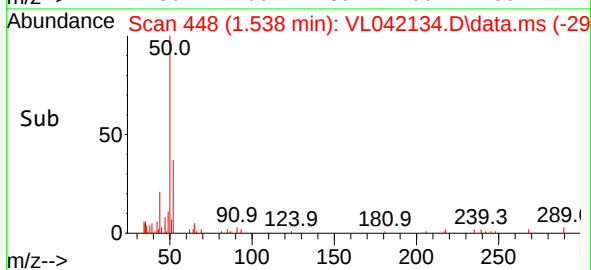
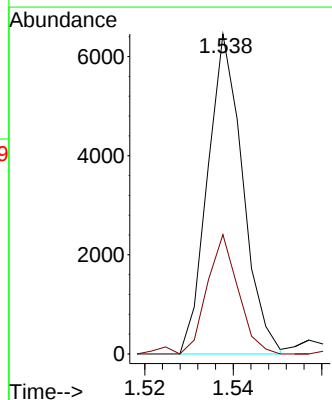
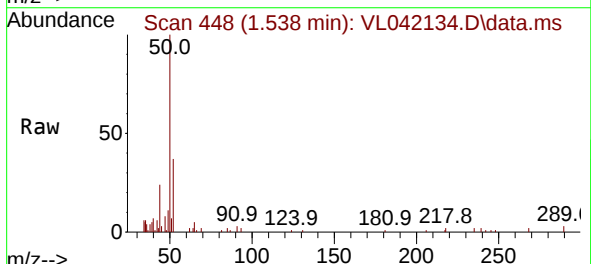
Instrument :
MSVOA_L
ClientSampleId :
OA1

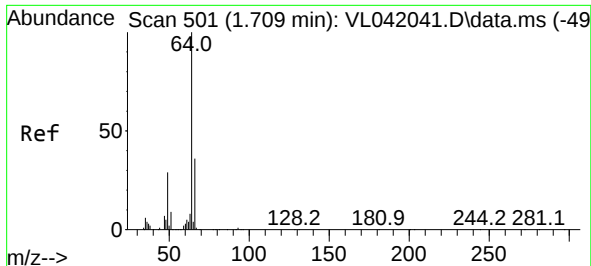
Tgt Ion: 51 Resp: 7889
Ion Ratio Lower Upper
51 100
67 15.2 13.7 20.5



#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 50 Resp: 3561
Ion Ratio Lower Upper
50 100
52 37.3 25.4 38.0

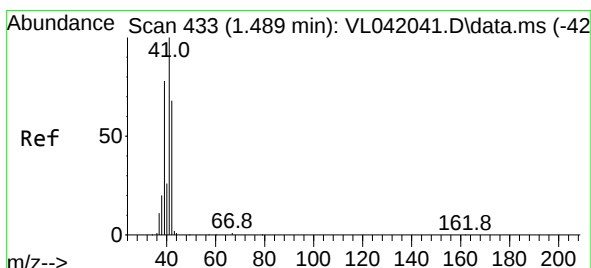
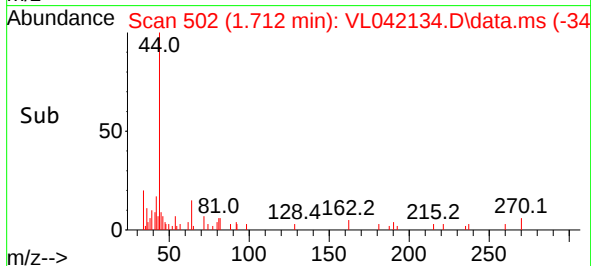
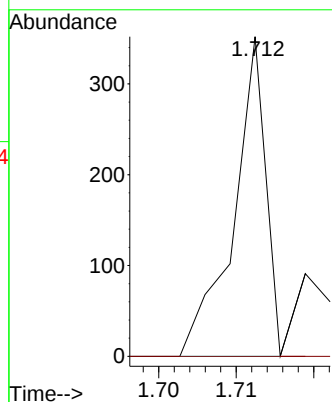
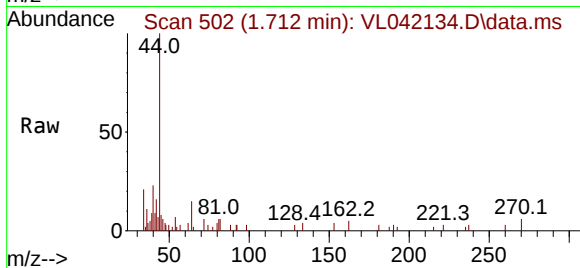




#7
Chloroethane
Concen: 0.043 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

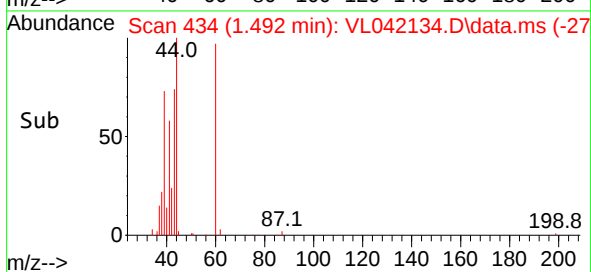
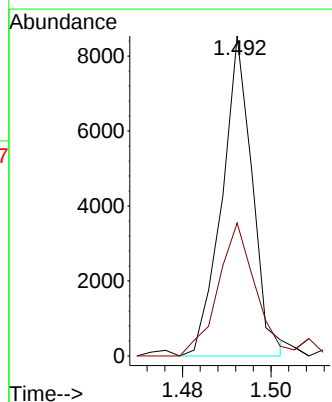
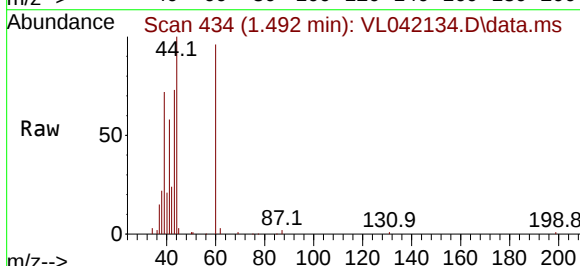
Instrument :
MSVOA_1
ClientSampleId :
OA1

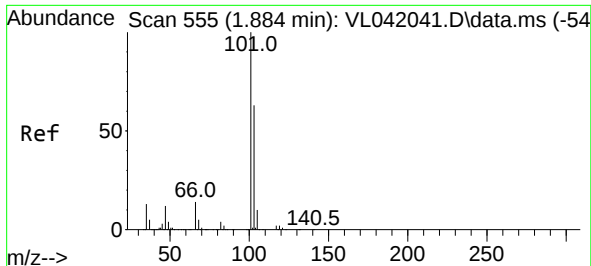
Tgt Ion: 64 Resp: 101
Ion Ratio Lower Upper
64 100
66 0.0 28.4 42.6#



#9
Propene
Concen: 0.429 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 41 Resp: 4059
Ion Ratio Lower Upper
41 100
42 56.2 55.8 83.6

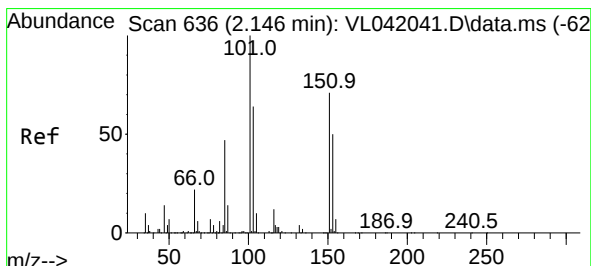
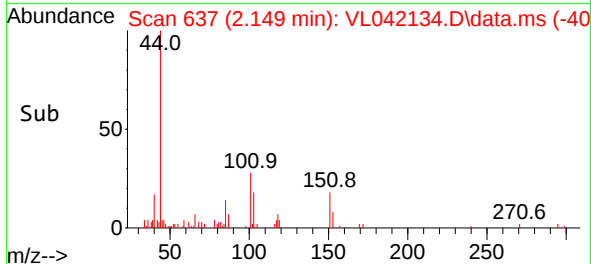
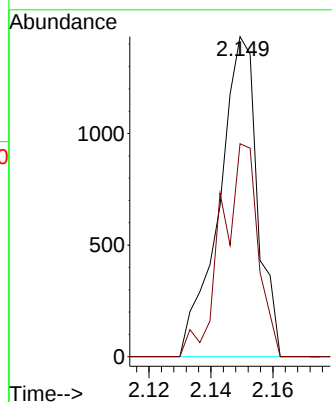
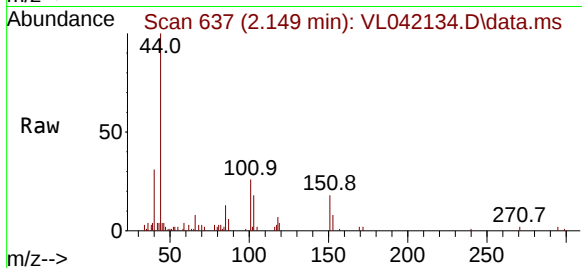




#11
Trichlorofluoromethane
Concen: 0.074 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.265 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

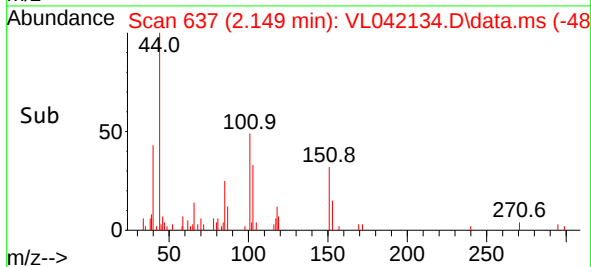
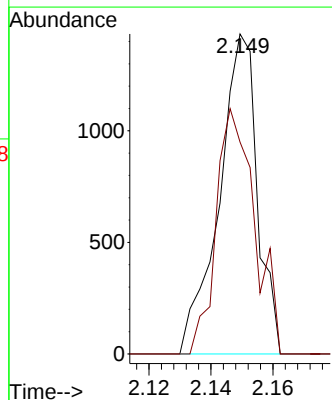
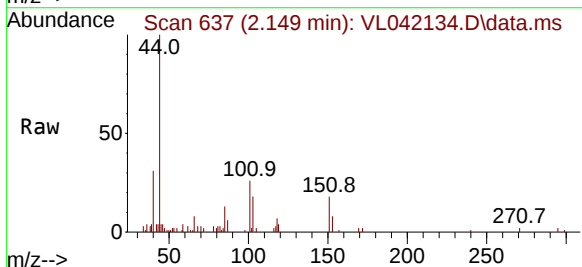
Instrument :
MSVOA_L
ClientSampleId :
OA1

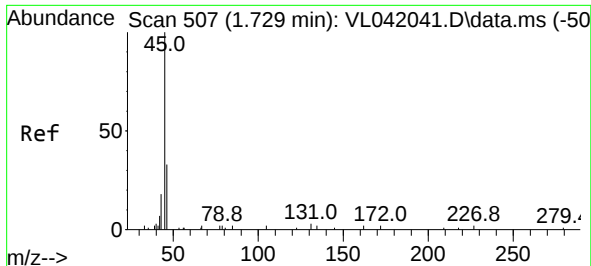
Tgt Ion:101 Resp: 1232
Ion Ratio Lower Upper
101 100
103 66.5 50.6 75.8



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.093 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion:101 Resp: 1232
Ion Ratio Lower Upper
101 100
151 76.9 62.6 94.0

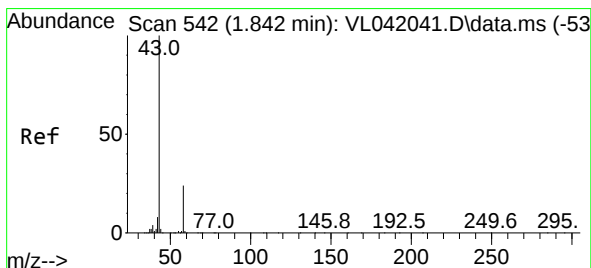
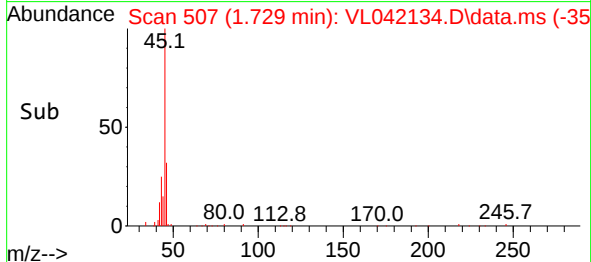
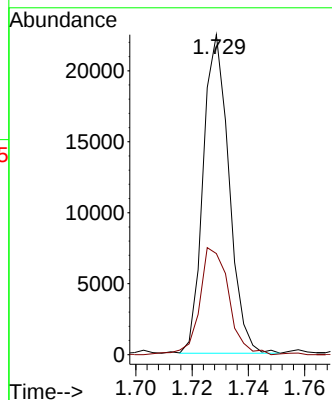
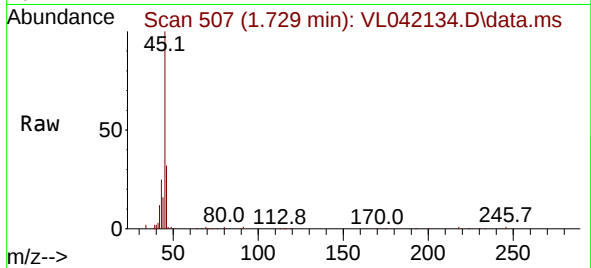




#13
Ethanol
Concen: 23.797 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

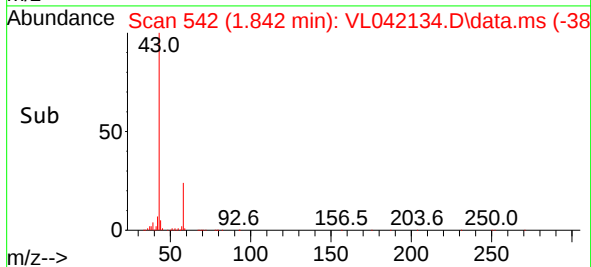
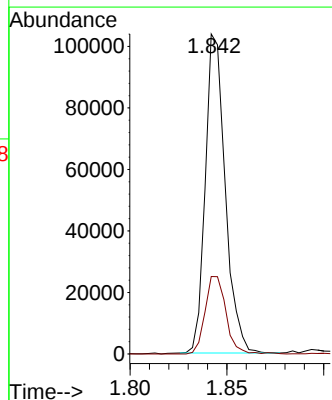
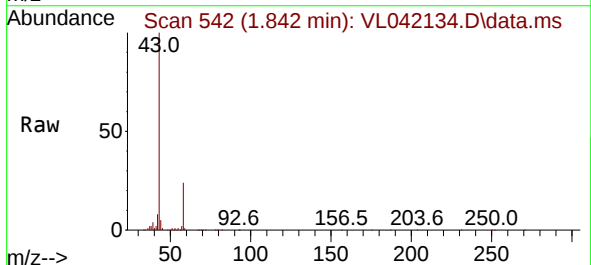
Instrument :
MSVOA_L
ClientSampleId :
OA1

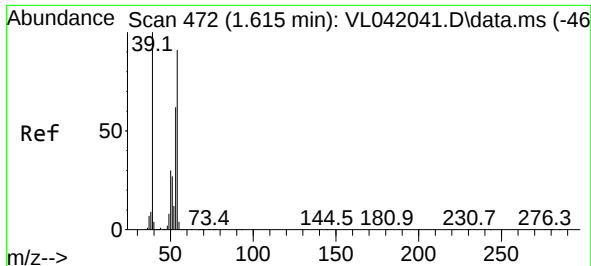
Tgt Ion: 45 Resp: 14287
Ion Ratio Lower Upper
45 100
46 38.3 17.1 68.3



#15
Acetone
Concen: 5.256 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 43 Resp: 74138
Ion Ratio Lower Upper
43 100
58 25.6 20.7 31.1

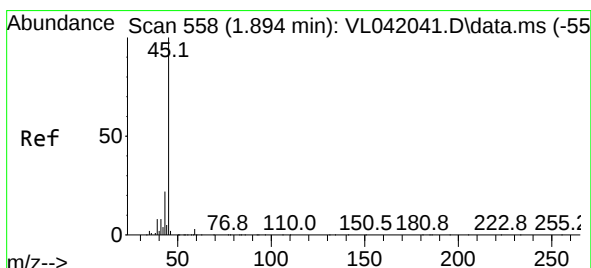
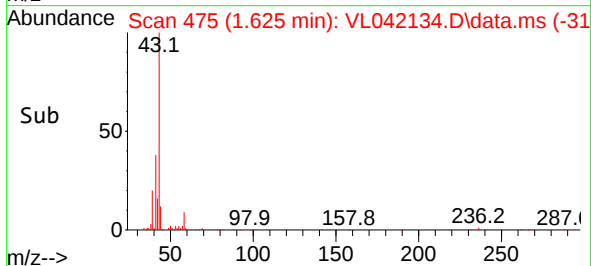
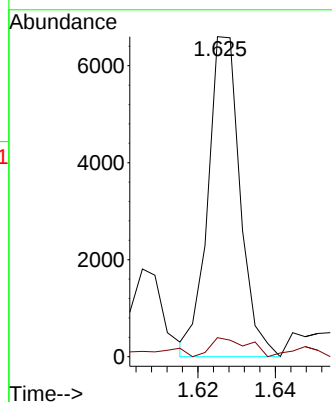
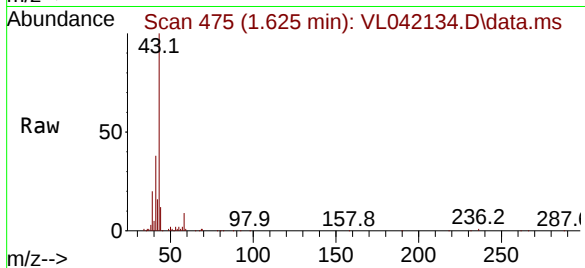




#16
1,3-Butadiene
Concen: 0.581 ppbv
RT: 1.625 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

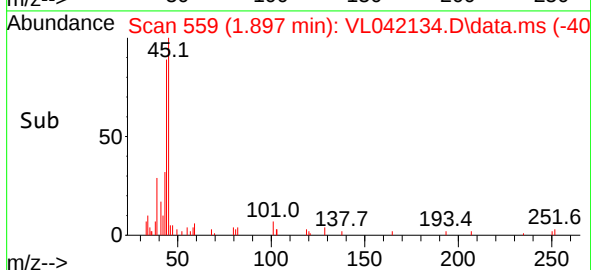
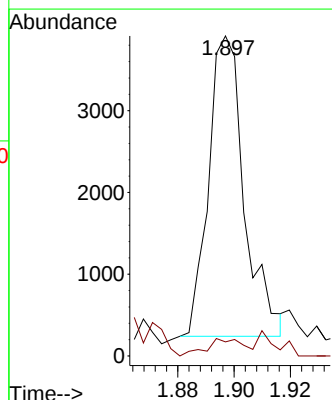
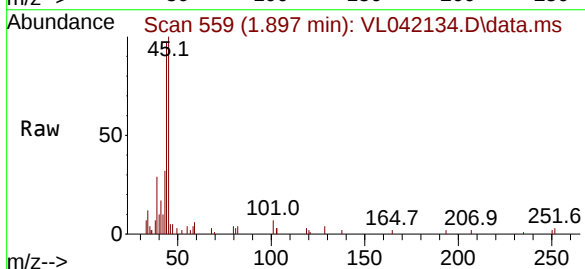
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MSVOA_L
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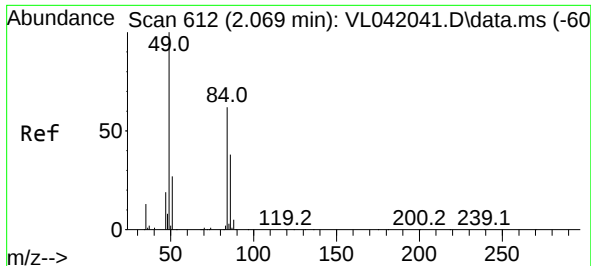
Tgt Ion: 39 Resp: 3816
Ion Ratio Lower Upper
39 100
54 12.9 59.6 89.4#



#19
Isopropyl Alcohol
Concen: 0.399 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 45 Resp: 3229
Ion Ratio Lower Upper
45 100
58 587.7 35.3 52.9#

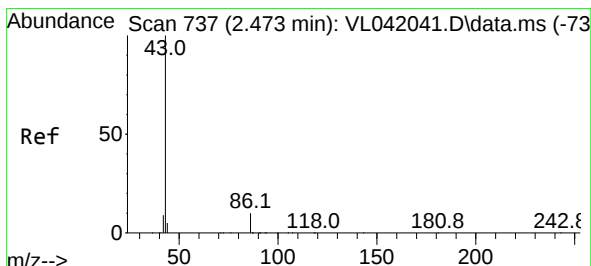
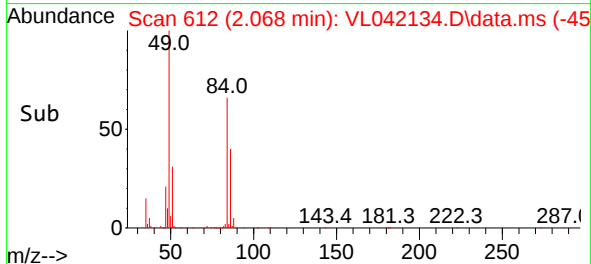
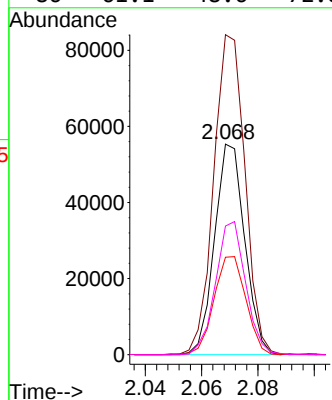
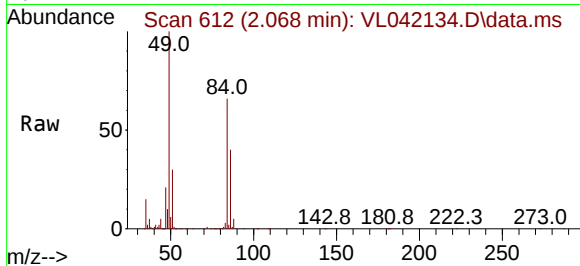




#20
Methylene Chloride
Concen: 7.720 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

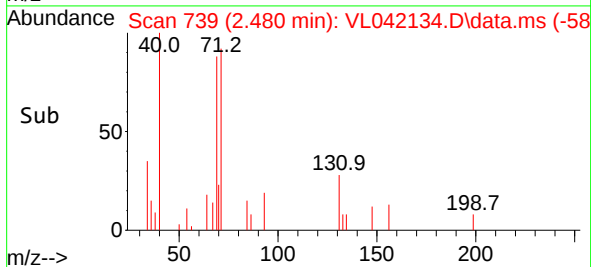
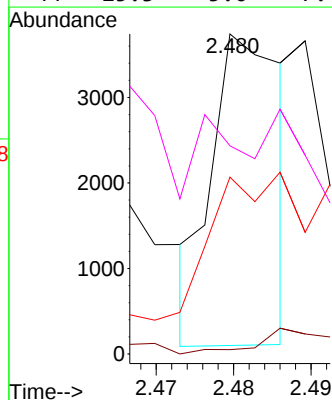
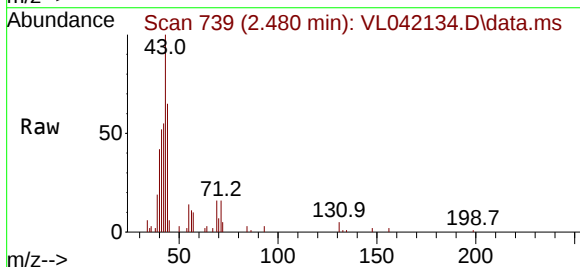
Instrument :
MSVOA_L
ClientSampleId :
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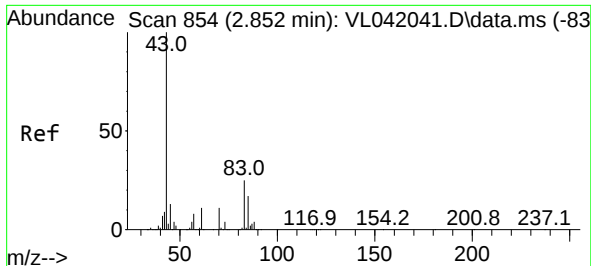
Tgt Ion: 84	Resp: 41194		
Ion	Ratio	Lower	Upper
84	100		
49	151.6	130.0	195.0
51	46.3	37.4	56.0
86	61.1	48.6	72.8



#23
Vinyl Acetate
Concen: 0.230 ppbv
RT: 2.480 min Scan# 739
Delta R.T. 0.006 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt	Ion: 43	Resp:	2284
Ion	Ratio	Lower	Upper
43	100		
86	2.1	7.0	10.4#
42	64.2	7.6	11.4#
44	25.3	5.0	7.4#

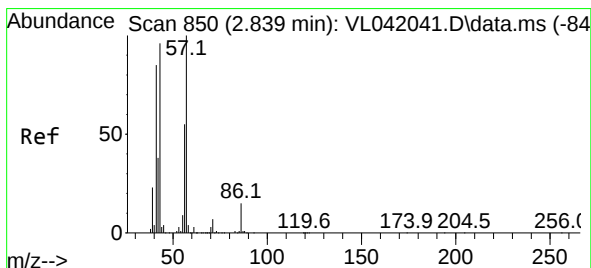
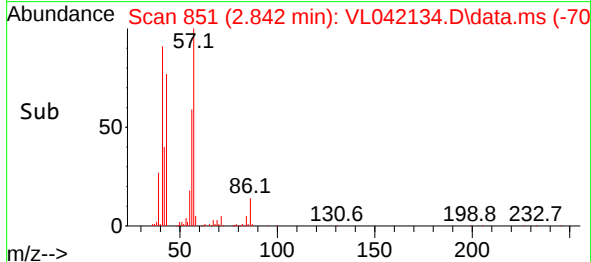
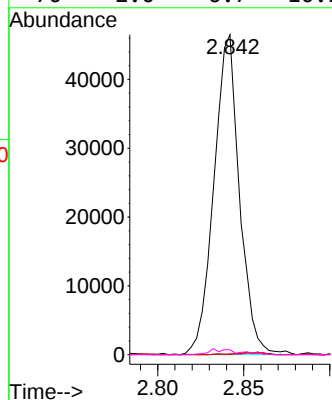
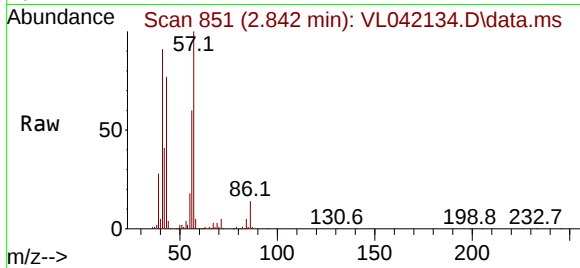




#25
Ethyl Acetate
Concen: 0.852 ppbv
RT: 2.842 min Scan# 81
Delta R.T. -0.010 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

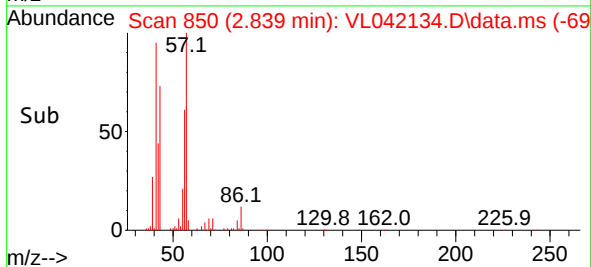
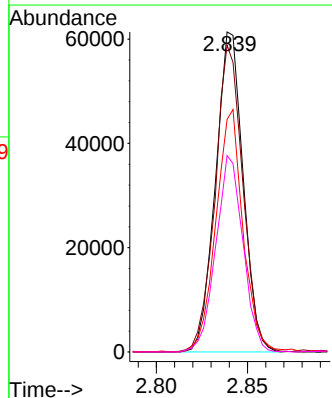
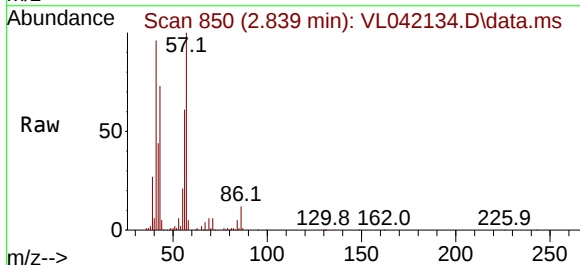
Instrument :
MSVOA_L
ClientSampleId :
OA1

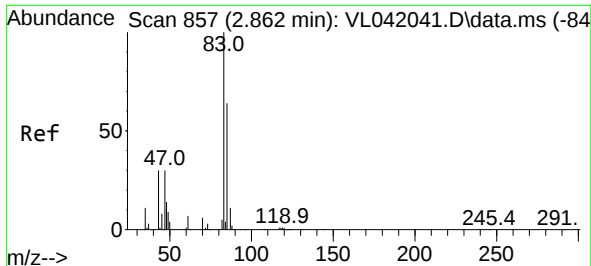
Tgt Ion: 43 Resp: 48086
Ion Ratio Lower Upper
43 100
45 0.8 8.1 12.1#
61 0.6 7.2 10.8#
70 2.0 6.7 10.1#



#26
Hexane
Concen: 2.827 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 57 Resp: 64539
Ion Ratio Lower Upper
57 100
41 97.2 70.6 106.0
43 75.1 199.4 299.0#
56 60.6 42.6 64.0





#29

Chloroform

Concen: 0.071 ppbv

RT: 2.861 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

Instrument :

MSVOA_L

ClientSampleId :

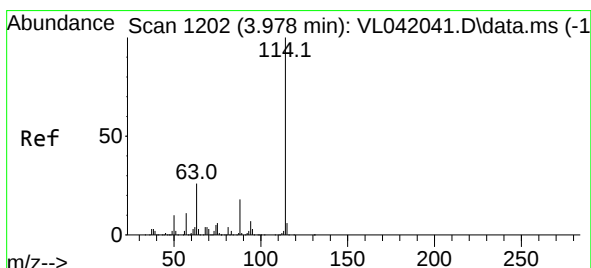
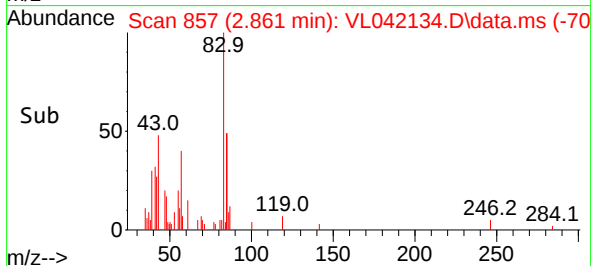
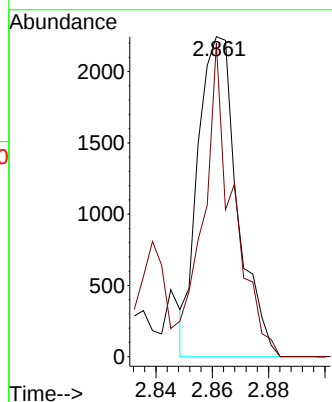
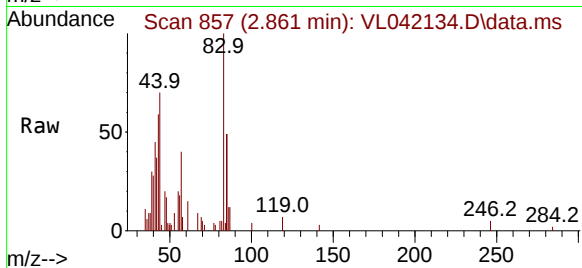
OA1

Tgt Ion: 83 Resp: 2180

Ion Ratio Lower Upper

83 100

85 97.9 51.2 76.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. -0.000 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

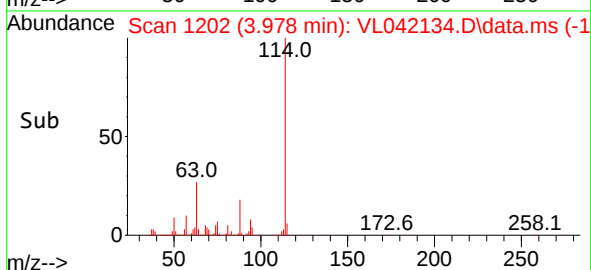
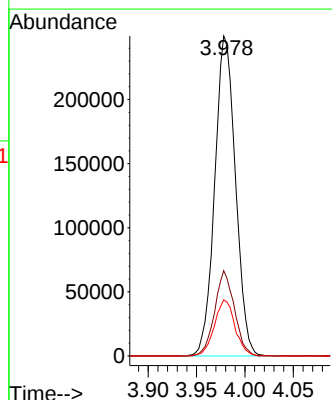
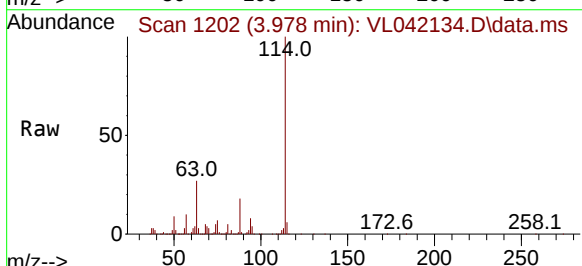
Tgt Ion: 114 Resp: 372131

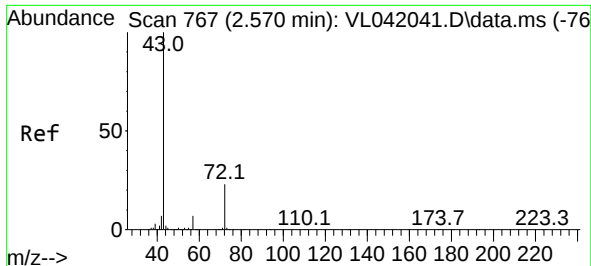
Ion Ratio Lower Upper

114 100

63 25.4 20.1 30.1

88 17.4 14.3 21.5

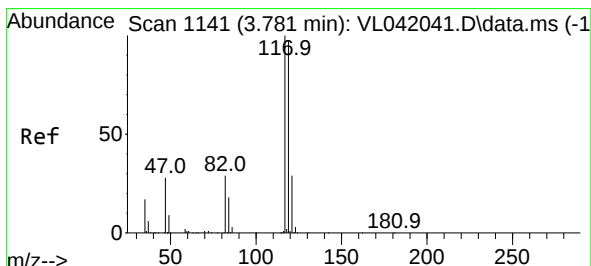
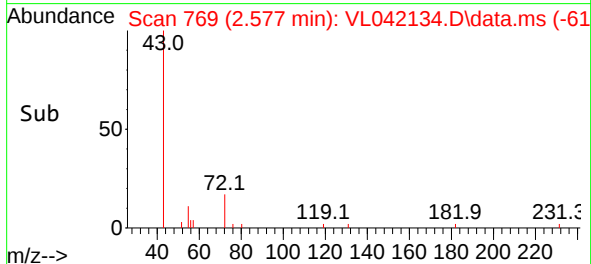
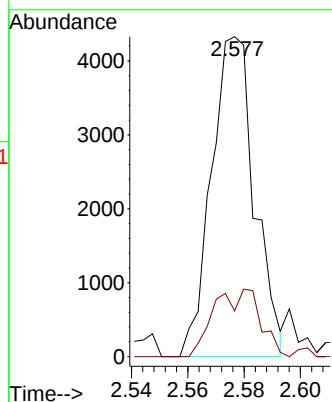
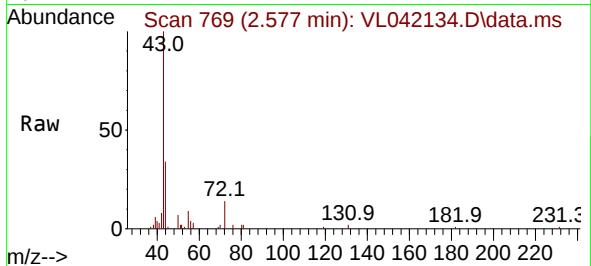




#34
2-Butanone
Concen: 0.159 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.006 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

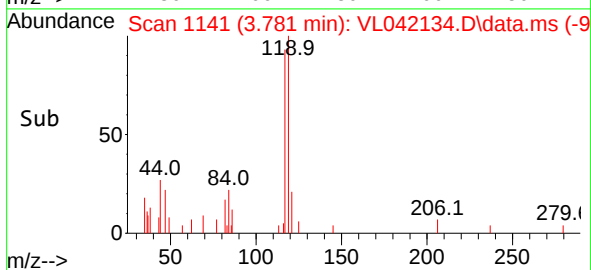
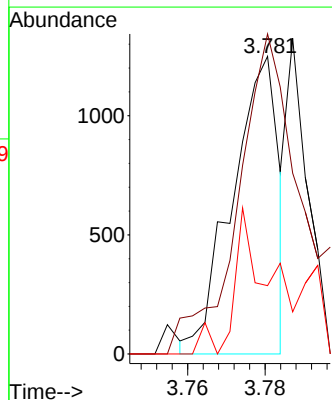
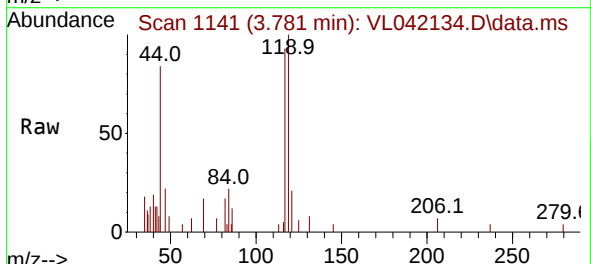
Instrument :
MSVOA_L
ClientSampleId :
OA1

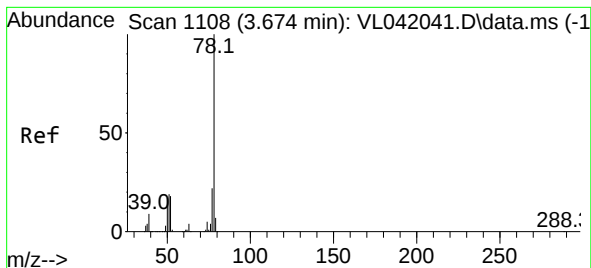
Tgt Ion: 43 Resp: 4611
Ion Ratio Lower Upper
43 100
72 23.6 18.5 27.7



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 117 Resp: 1039
Ion Ratio Lower Upper
117 100
119 99.8 77.8 116.8
121 24.0 23.4 35.0





#36

Benzene

Concen: 0.051 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

Instrument :

MSVOA_L

ClientSampleId :

OA1

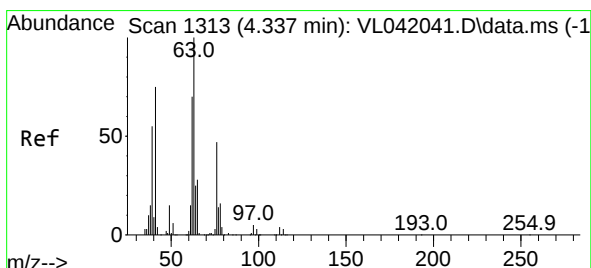
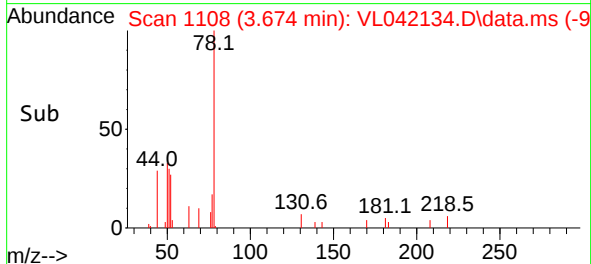
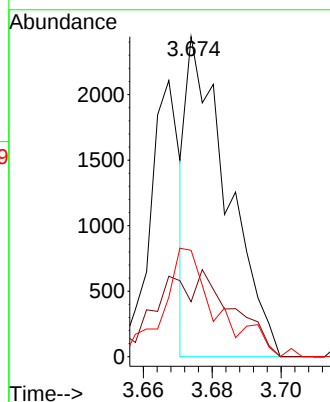
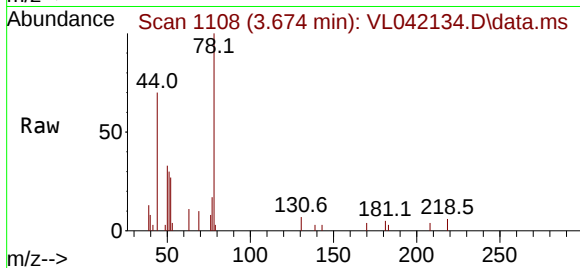
Tgt Ion: 78 Resp: 2000

Ion Ratio Lower Upper

78 100

77 17.2 17.7 26.5#

50 33.3 13.9 20.9#



#39

1,2-Dichloropropane

Concen: 6.371 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. -0.359 min

Lab File: VL042134.D

Acq: 10 Mar 2025 20:03

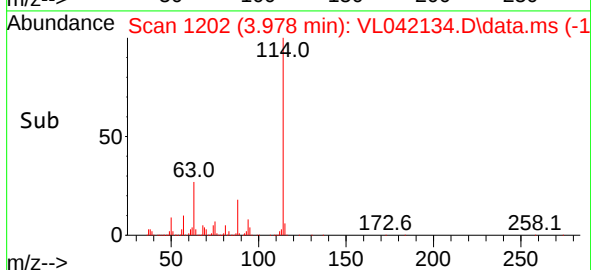
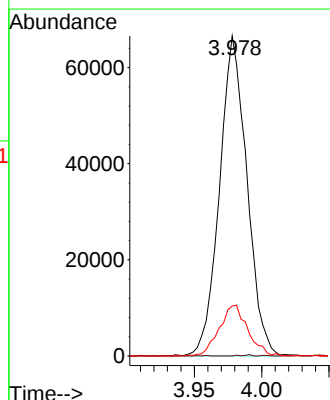
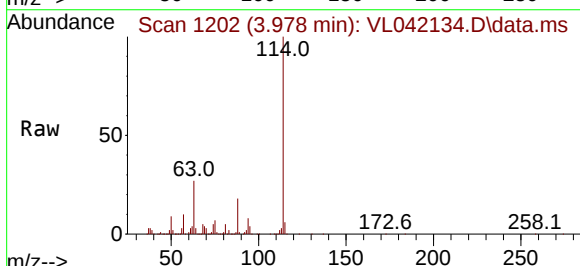
Tgt Ion: 63 Resp: 94200

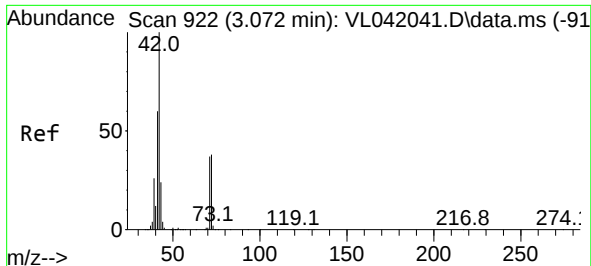
Ion Ratio Lower Upper

63 100

41 0.0 60.1 90.1#

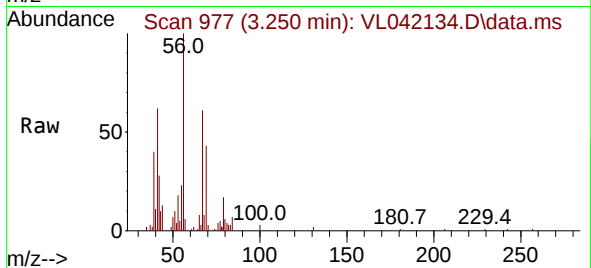
62 15.6 55.8 83.8#



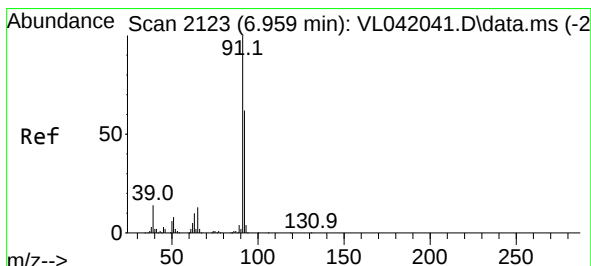
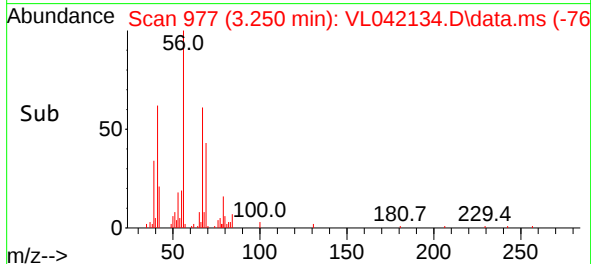
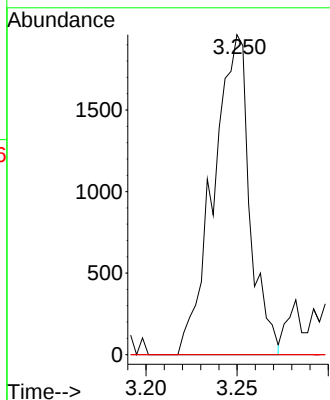


#41
Tetrahydrofuran
Concen: 0.159 ppbv
RT: 3.250 min Scan# 91
Delta R.T. 0.178 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Instrument :
MSVOA_L
ClientSampleId :
OA1

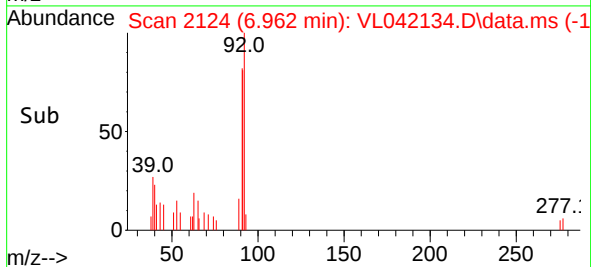
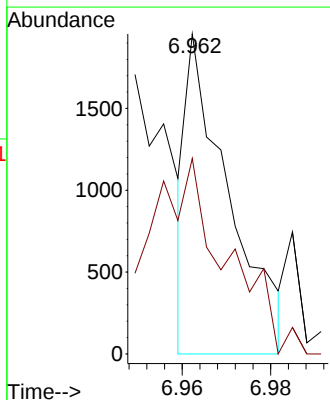
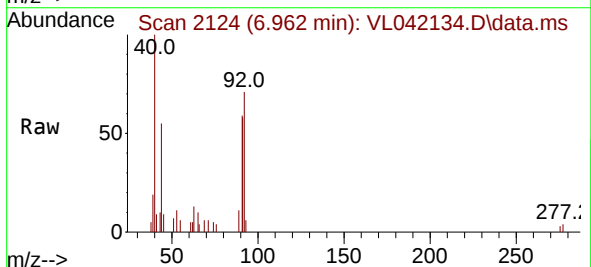


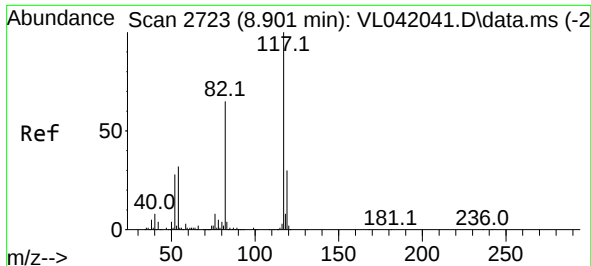
Tgt Ion: 42 Resp: 2725
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 0.0 28.2 42.4#



#53
Toluene
Concen: 0.030 ppbv
RT: 6.962 min Scan# 2124
Delta R.T. 0.003 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 91 Resp: 1309
Ion Ratio Lower Upper
91 100
92 142.3 49.0 73.6#

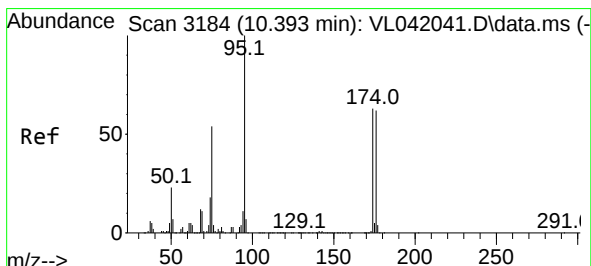
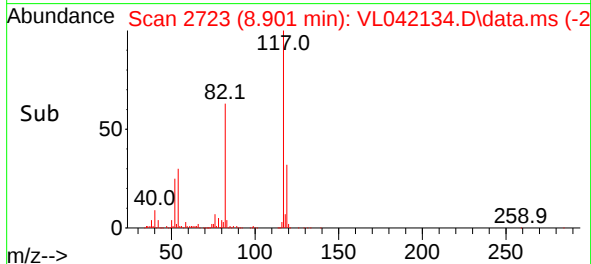
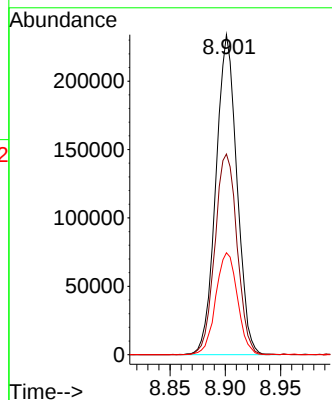
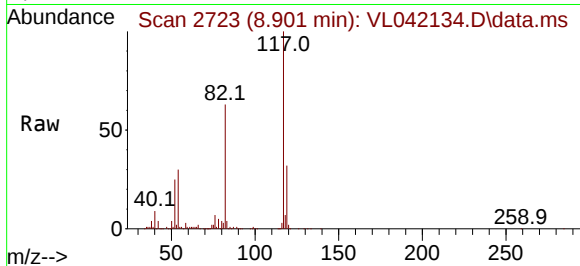




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:117 Resp: 309256
Ion Ratio Lower Upper
117 100
82 66.3 55.0 82.6
119 32.9 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.115 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042134.D
Acq: 10 Mar 2025 20:03

Tgt Ion: 95 Resp: 240649
Ion Ratio Lower Upper
95 100
174 64.6 51.8 77.6
175 4.5 3.9 5.9

