

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041924.D
 Acq On : 20 Jan 2025 17:31
 Operator : SY/MD
 Sample : Q1090-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 03:05:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

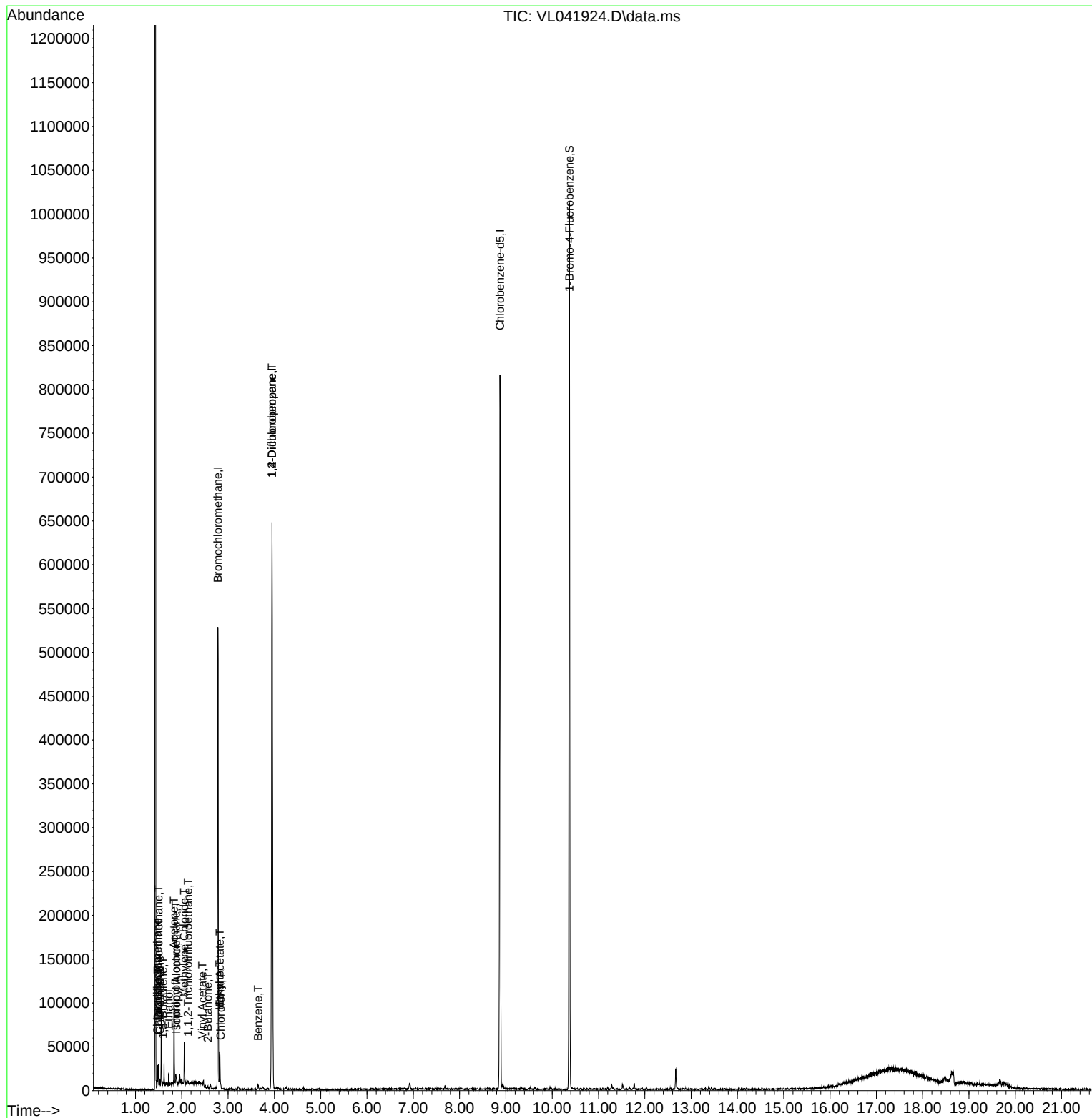
Internal Standards						
1) Bromochloromethane	2.780	49	138604	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	378424	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	331897	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	252541	9.661	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	5789	0.307	ppbv	93
3) Chlorodifluoromethane	1.473	51	3910	0.198	ppbv	95
4) Chloromethane	1.528	50	2125	0.299	ppbv	96
9) Propene	1.483	41	1747	0.214	ppbv	91
11) Trichlorofluoromethane	1.871	101	2635	0.134	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.133	101	644	0.042	ppbv #	79
13) Ethanol	1.719	45	3929	6.584	ppbv #	31
15) Acetone	1.832	43	42427	2.549	ppbv	100
16) 1,3-Butadiene	1.596	39	354	0.047	ppbv #	11
19) Isopropyl Alcohol	1.884	45	2295	0.233	ppbv #	1
20) Methylene Chloride	2.055	84	5379	0.818	ppbv #	79
23) Vinyl Acetate	2.444	43	413	0.050	ppbv #	1
25) Ethyl Acetate	2.819	43	6676	0.149	ppbv #	78
26) Hexane	2.816	57	8998	0.507	ppbv #	35
29) Chloroform	2.842	83	1410	0.050	ppbv	99
34) 2-Butanone	2.560	43	1900	0.079	ppbv	93
36) Benzene	3.648	78	1918	0.055	ppbv #	78
39) 1,2-Dichloropropane	3.949	63	96098	7.893	ppbv #	23

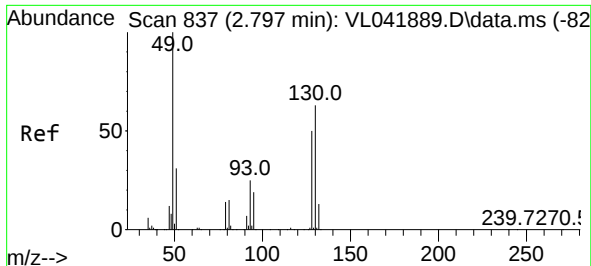
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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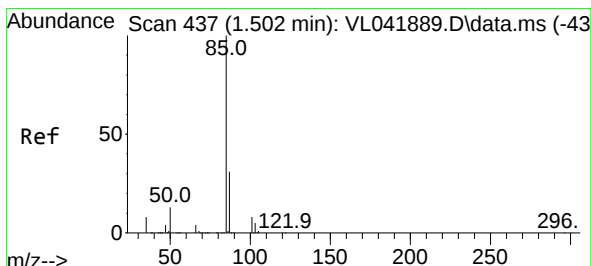
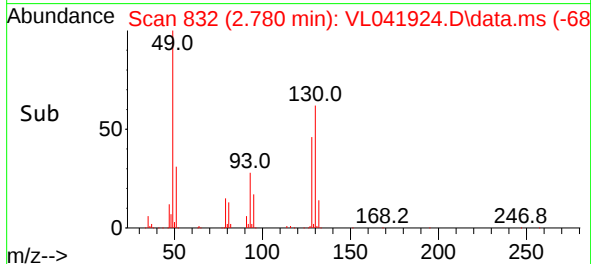
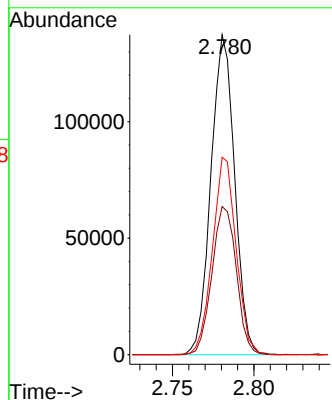
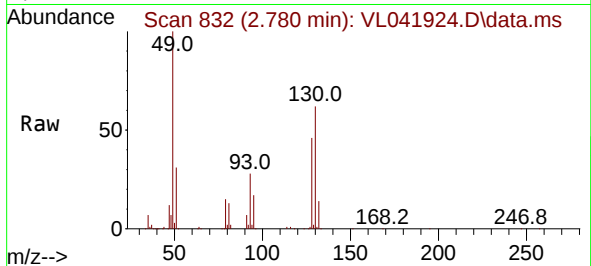




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.780 min Scan# 837
 Delta R.T. -0.017 min
 Lab File: VL041924.D
 Acq: 20 Jan 2025 17:31

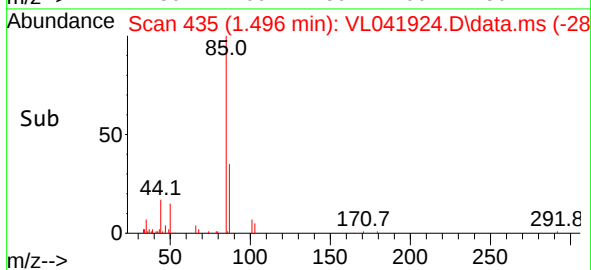
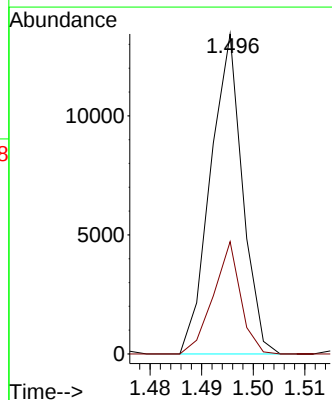
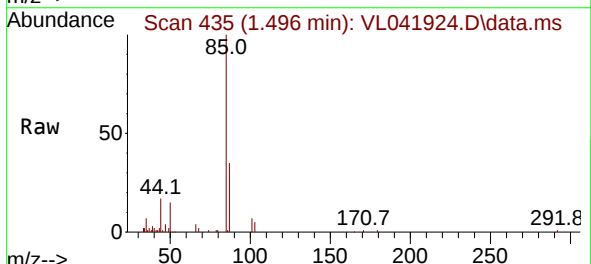
Instrument :
 MSVOA_L
 ClientSampleId :

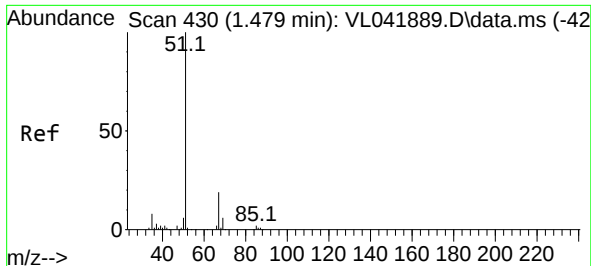
Tgt Ion: 49 Resp: 138604
 Ion Ratio Lower Upper
 49 100
 128 47.7 24.3 73.0
 130 61.7 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.307 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.006 min
 Lab File: VL041924.D
 Acq: 20 Jan 2025 17:31

Tgt Ion: 85 Resp: 5789
 Ion Ratio Lower Upper
 85 100
 87 35.1 24.9 37.3

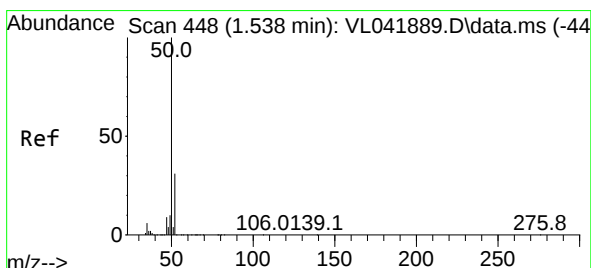
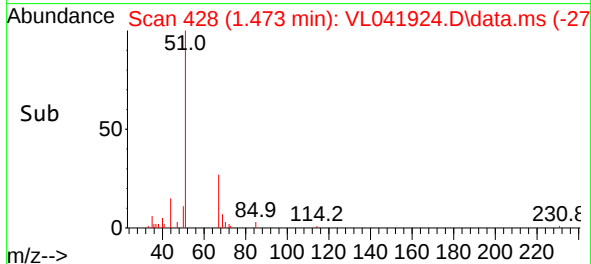
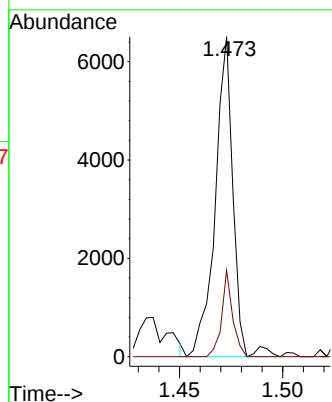
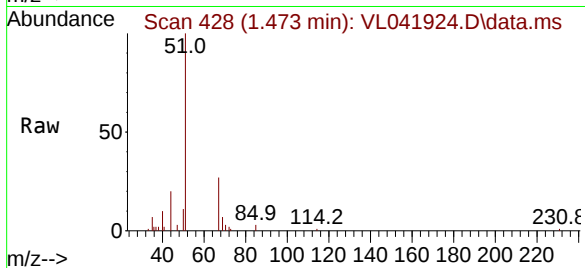




#3
Chlorodifluoromethane
Concen: 0.198 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

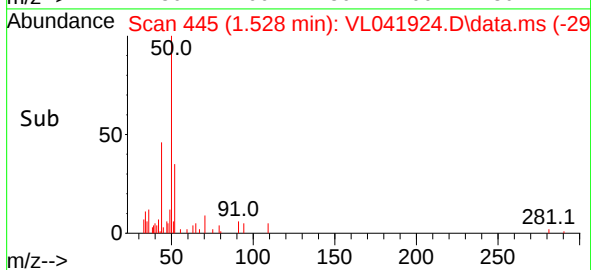
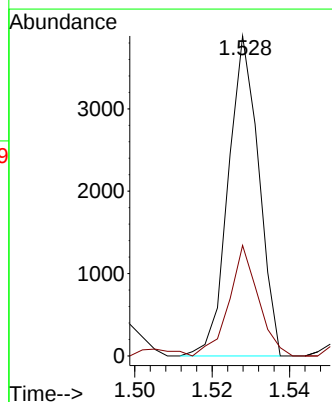
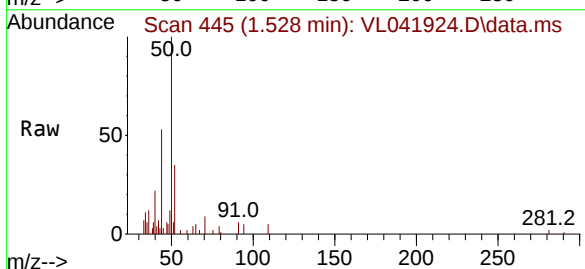
Instrument :
MSVOA_L
ClientSampleId :

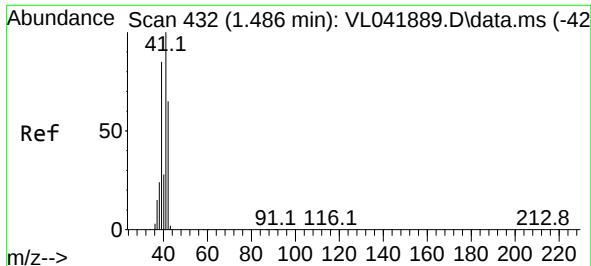
Tgt Ion: 51 Resp: 3910
Ion Ratio Lower Upper
51 100
67 16.5 15.0 22.4



#4
Chloromethane
Concen: 0.299 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 50 Resp: 2125
Ion Ratio Lower Upper
50 100
52 33.1 24.6 36.8





#9

Propene

Concen: 0.214 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041924.D

Acq: 20 Jan 2025 17:31

Instrument :

MSVOA_L

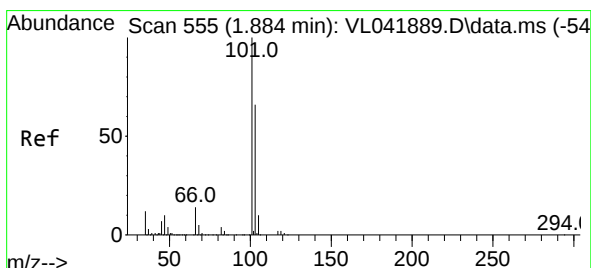
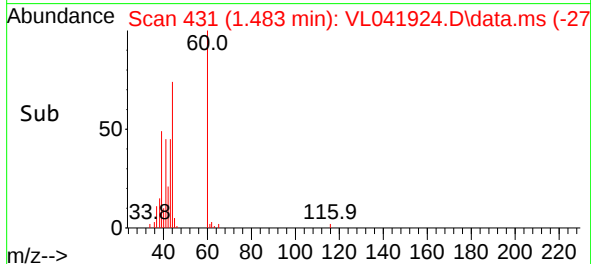
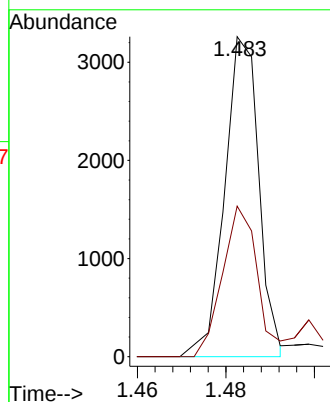
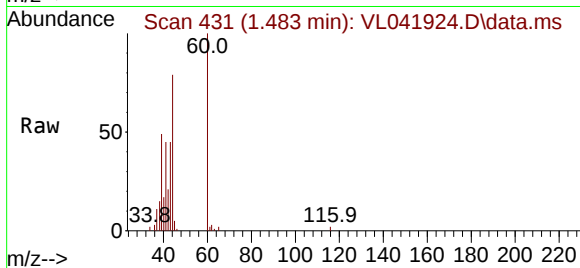
ClientSampleId :

Tgt Ion: 41 Resp: 1747

Ion Ratio Lower Upper

41 100

42 57.7 52.0 78.0



#11

Trichlorofluoromethane

Concen: 0.134 ppbv

RT: 1.871 min Scan# 551

Delta R.T. -0.013 min

Lab File: VL041924.D

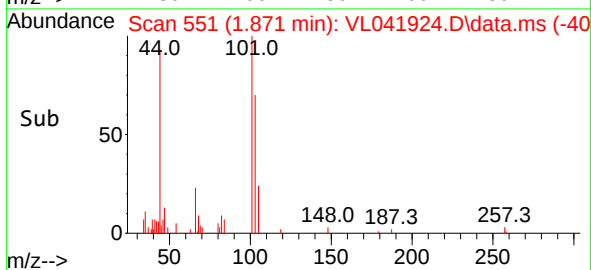
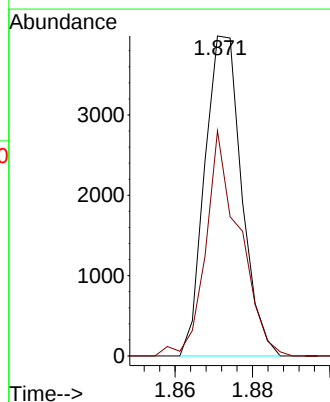
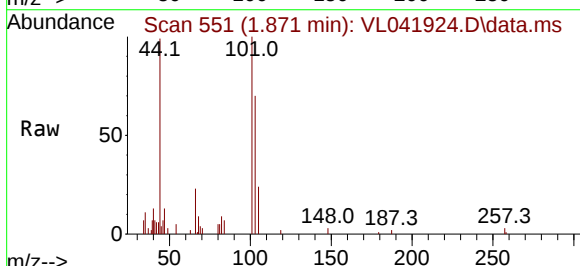
Acq: 20 Jan 2025 17:31

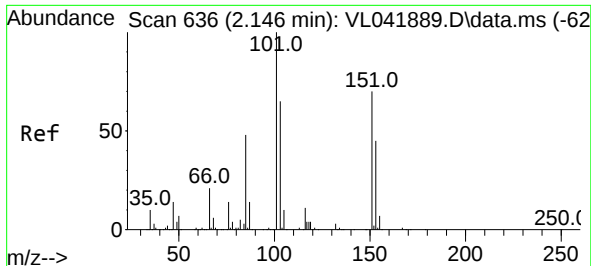
Tgt Ion: 101 Resp: 2635

Ion Ratio Lower Upper

101 100

103 69.1 53.1 79.7

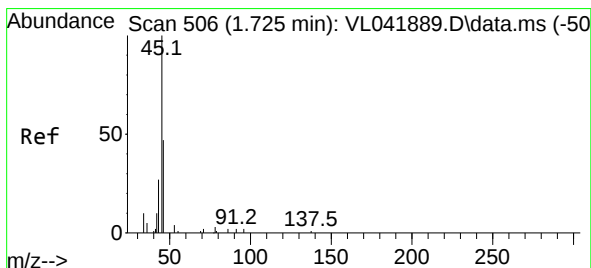
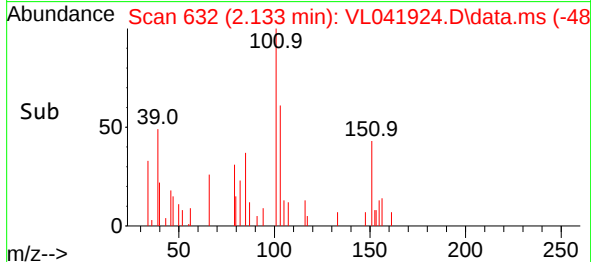
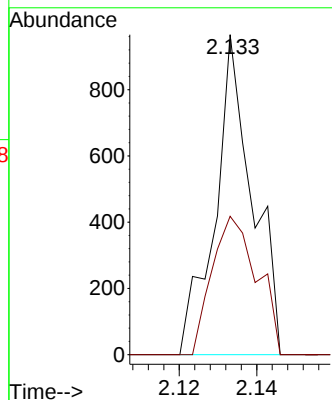
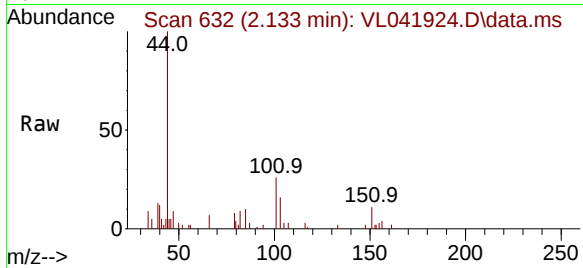




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.042 ppbv
RT: 2.133 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

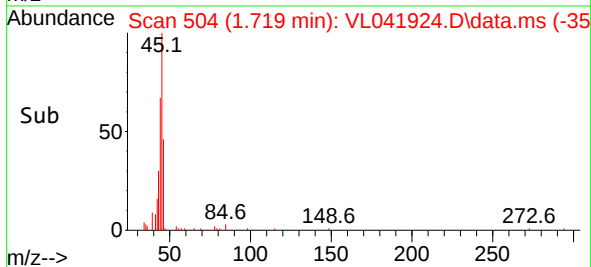
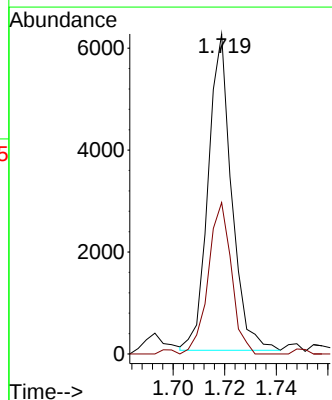
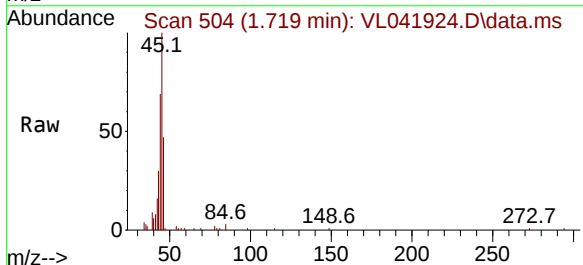
Instrument :
MSVOA_L
ClientSampleId :

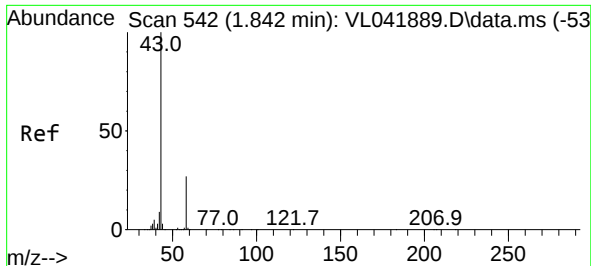
Tgt Ion:101 Resp: 644
Ion Ratio Lower Upper
101 100
151 52.5 56.1 84.1#



#13
Ethanol
Concen: 6.584 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 45 Resp: 3929
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#

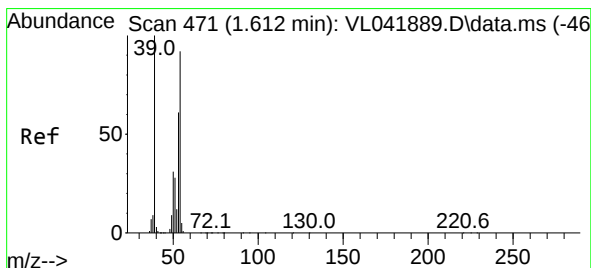
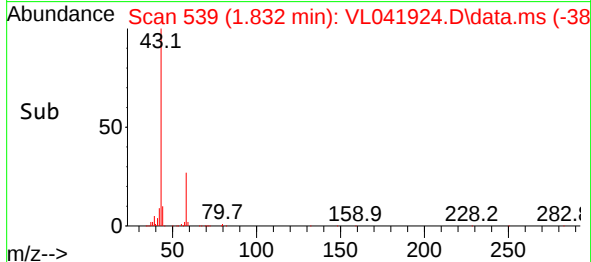
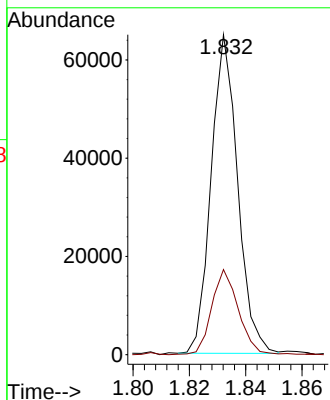
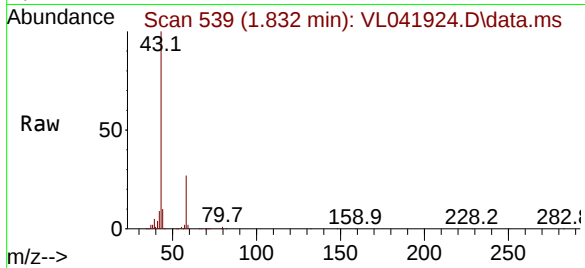




#15
Acetone
Concen: 2.549 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

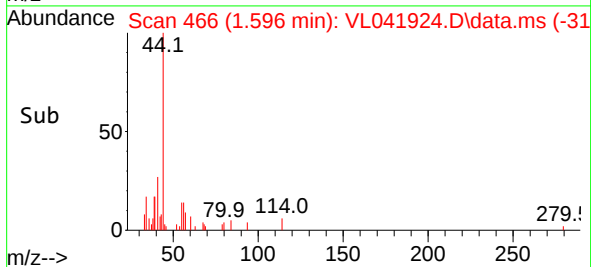
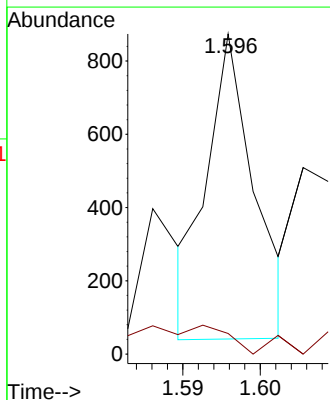
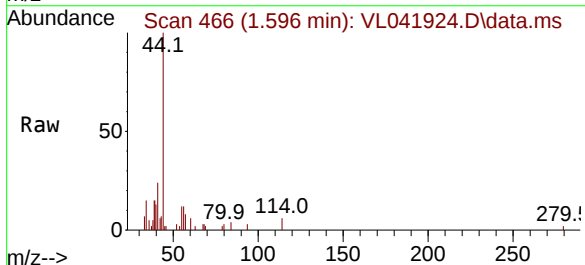
Instrument :
MSVOA_L
ClientSampleId :

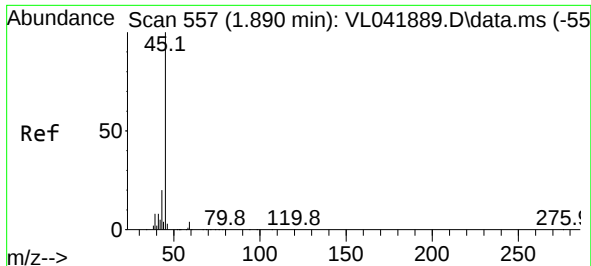
Tgt Ion: 43 Resp: 42427
Ion Ratio Lower Upper
43 100
58 27.3 21.9 32.9



#16
1,3-Butadiene
Concen: 0.047 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.016 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 39 Resp: 354
Ion Ratio Lower Upper
39 100
54 0.0 61.6 92.4#

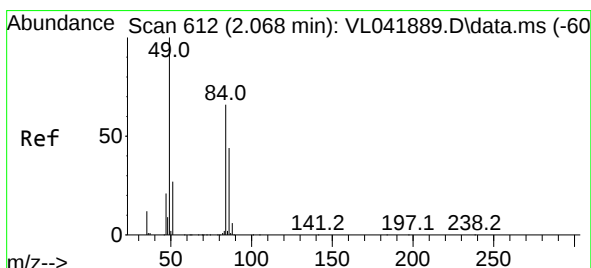
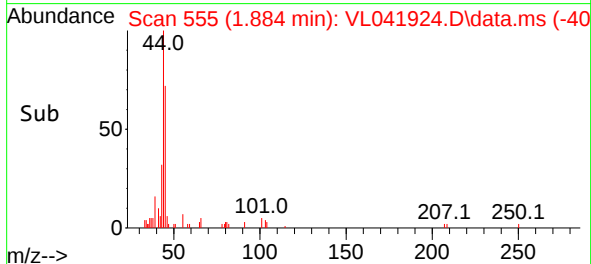
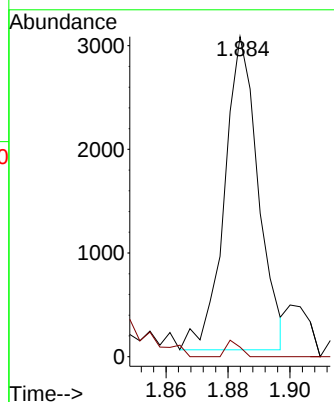
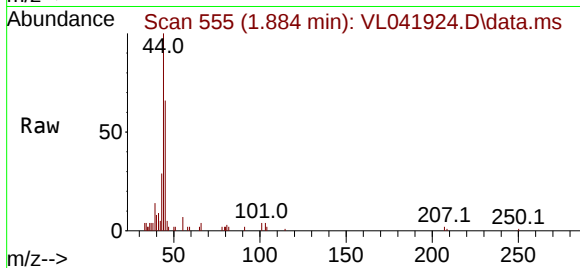




#19
Isopropyl Alcohol
Concen: 0.233 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

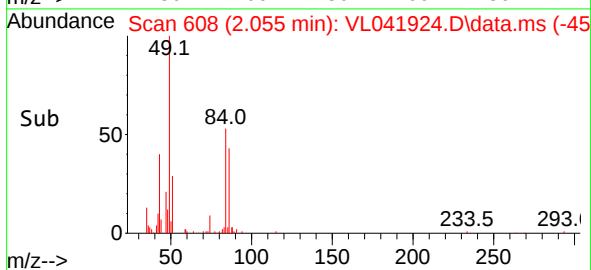
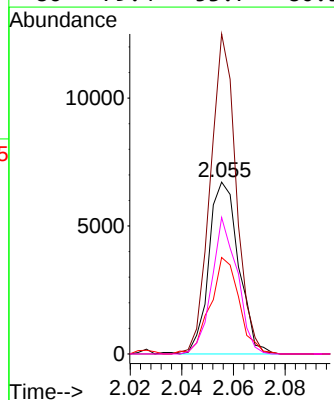
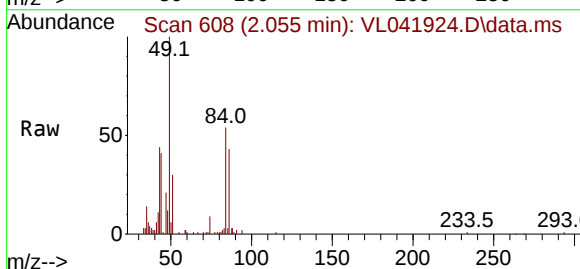
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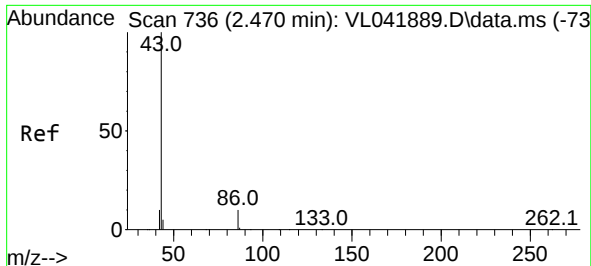
Tgt Ion: 45 Resp: 2295
Ion Ratio Lower Upper
45 100
58 504.3 35.0 52.6#



#20
Methylene Chloride
Concen: 0.818 ppbv
RT: 2.055 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

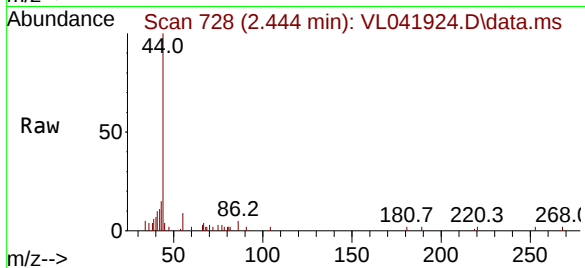
Tgt Ion: 84 Resp: 5379
Ion Ratio Lower Upper
84 100
49 186.2 123.1 184.7#
51 55.0 35.8 53.8#
86 79.4 53.7 80.5



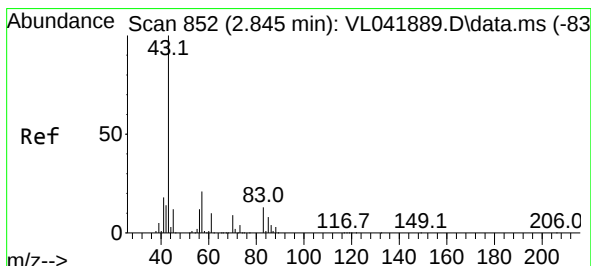
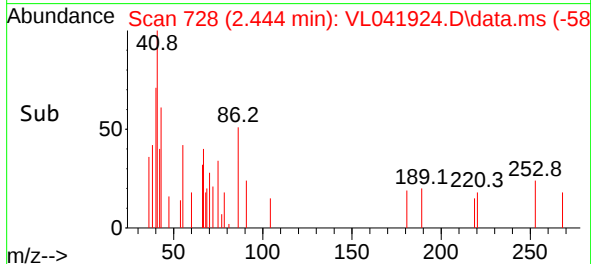
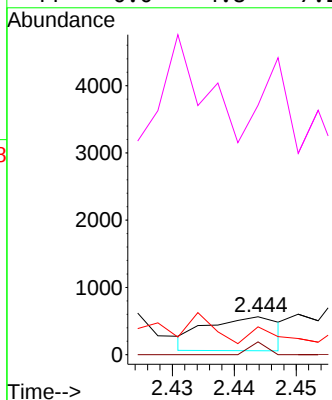


#23
 Vinyl Acetate
 Concen: 0.050 ppbv
 RT: 2.444 min Scan# 71
 Delta R.T. -0.026 min
 Lab File: VL041924.D
 Acq: 20 Jan 2025 17:31

Instrument :
 MSVOA_L
 ClientSampleId :

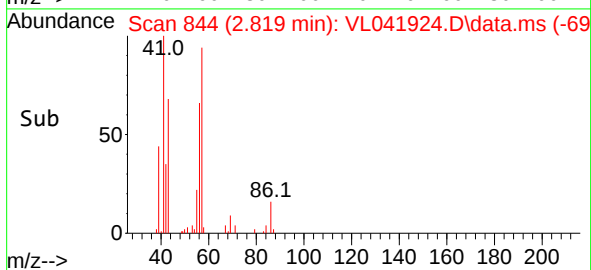
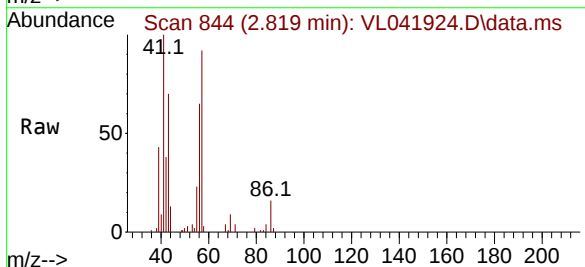
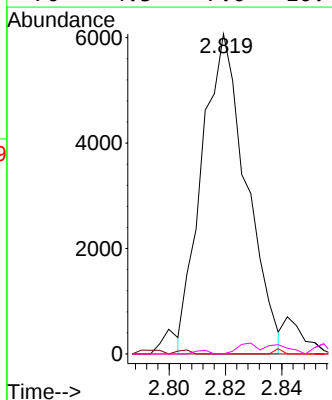


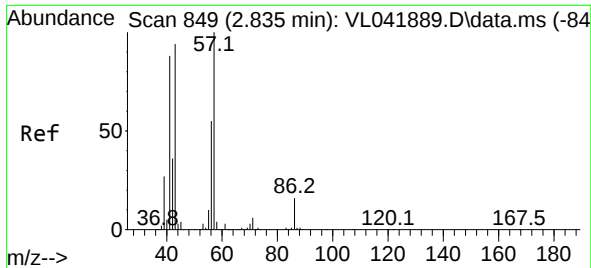
Tgt Ion: 43	Resp: 413
Ion Ratio	Lower Upper
43 100	
86 65.3	6.2 9.4#
42 52.2	8.5 12.7#
44 0.0	4.8 7.2#



#25
 Ethyl Acetate
 Concen: 0.149 ppbv
 RT: 2.819 min Scan# 844
 Delta R.T. -0.026 min
 Lab File: VL041924.D
 Acq: 20 Jan 2025 17:31

Tgt	Ion: 43	Resp:	6676
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.0	7.4	11.0#
70	4.3	7.0	10.4#

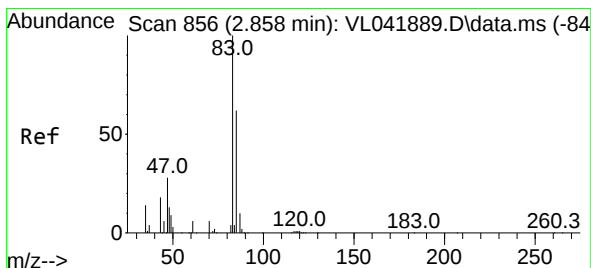
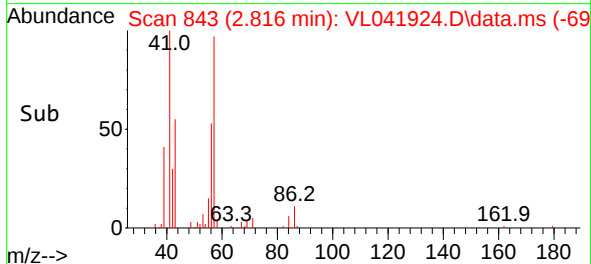
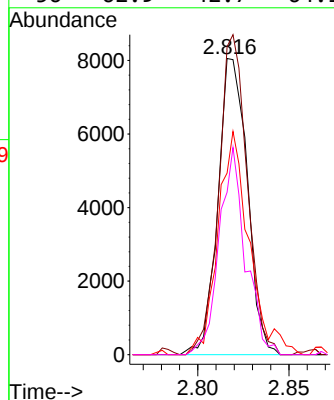
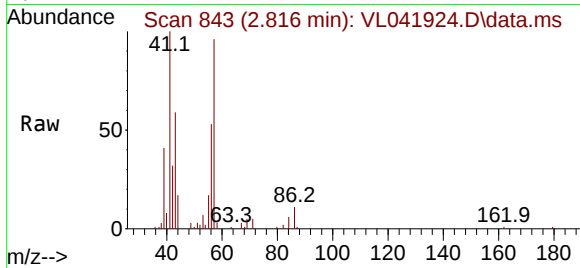




#26
Hexane
Concen: 0.507 ppbv
RT: 2.816 min Scan# 849
Delta R.T. -0.019 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

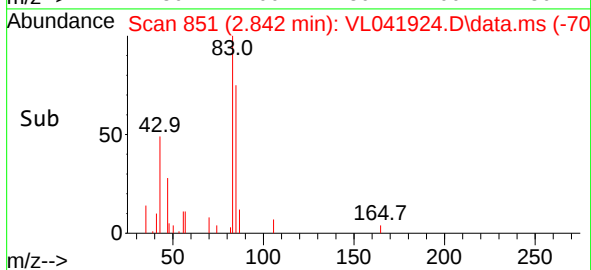
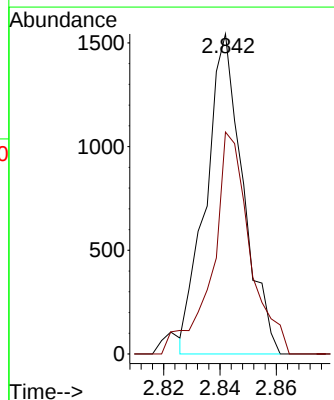
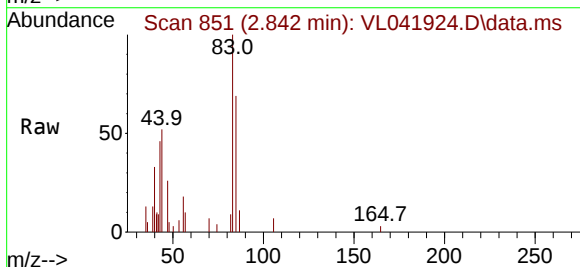
Instrument :
MSVOA_L
ClientSampleId :

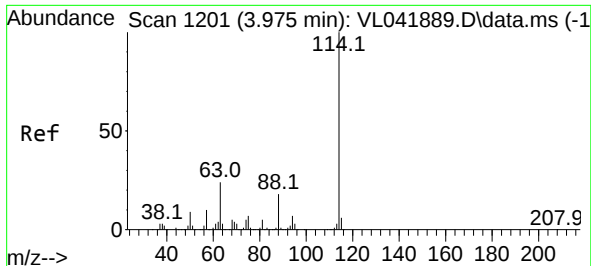
Tgt Ion: 57	Resp: 8998
Ion Ratio	Lower Upper
57 100	
41 106.3	73.8 110.8
43 81.8	197.3 295.9#
56 62.9	42.7 64.1



#29
Chloroform
Concen: 0.050 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.016 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 83	Resp: 1410
Ion Ratio	Lower Upper
83 100	
85 62.0	50.1 75.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041924.D

Acq: 20 Jan 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

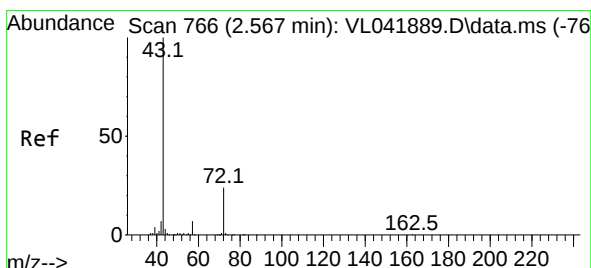
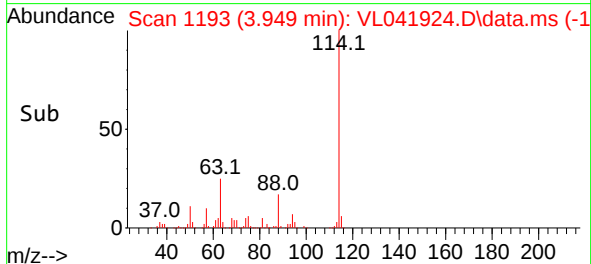
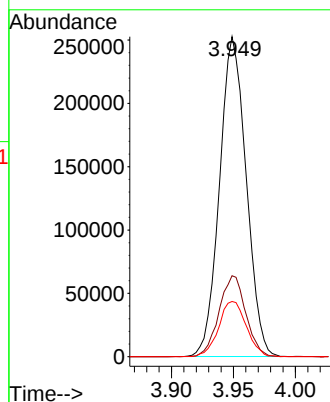
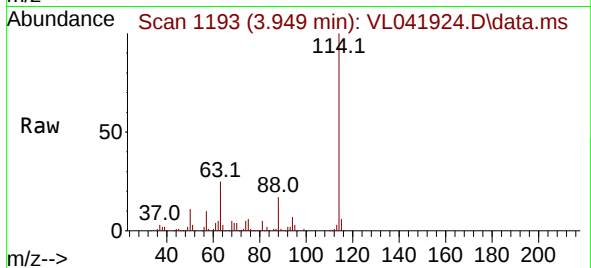
Tgt Ion:114 Resp: 378424

Ion Ratio Lower Upper

114 100

63 25.4 19.8 29.6

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 0.079 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.006 min

Lab File: VL041924.D

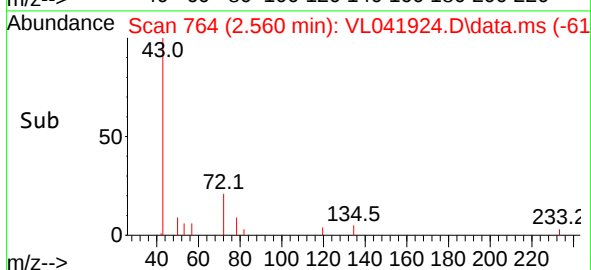
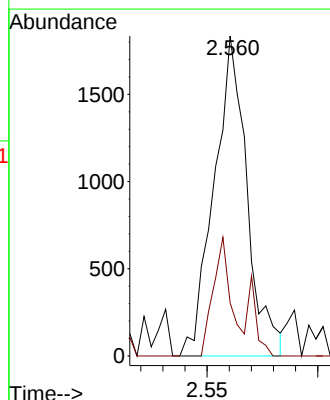
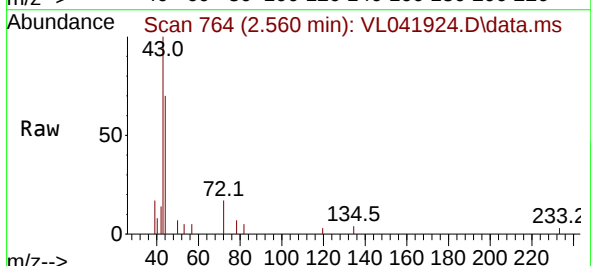
Acq: 20 Jan 2025 17:31

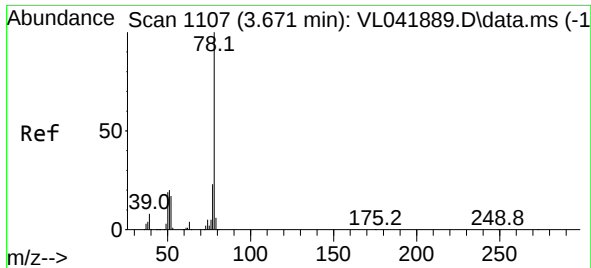
Tgt Ion: 43 Resp: 1900

Ion Ratio Lower Upper

43 100

72 26.6 18.6 28.0

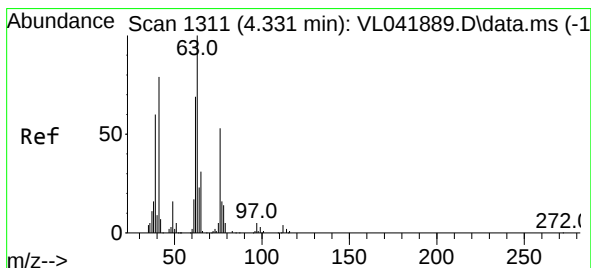
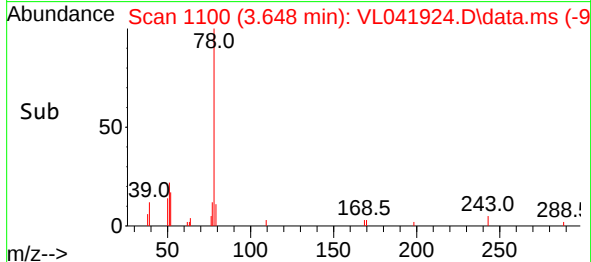
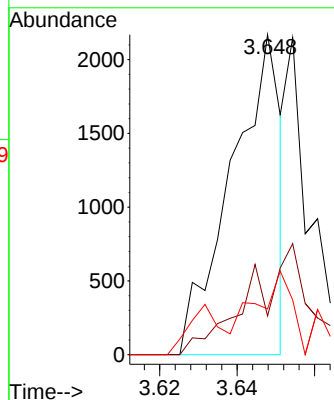
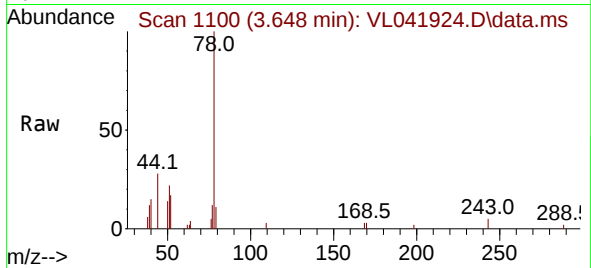




#36
Benzene
Concen: 0.055 ppbv
RT: 3.648 min Scan# 1107
Delta R.T. -0.023 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

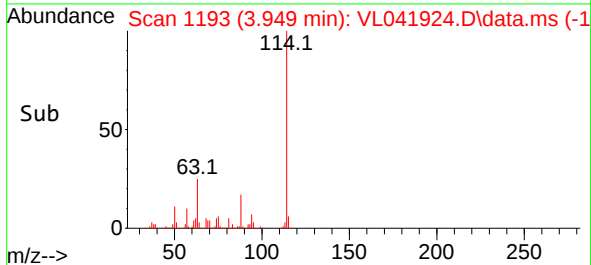
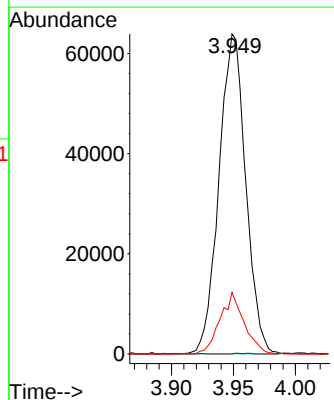
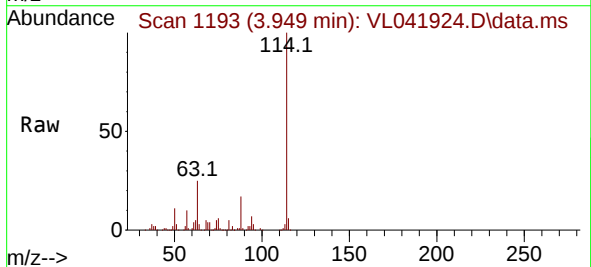
Instrument :
MSVOA_L
ClientSampleId :

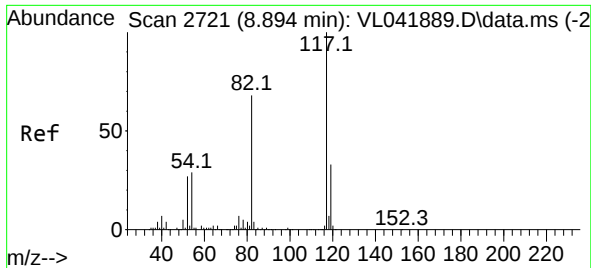
Tgt Ion: 78 Resp: 1918
Ion Ratio Lower Upper
78 100
77 12.1 18.1 27.1#
50 9.4 15.2 22.8#



#39
1,2-Dichloropropane
Concen: 7.893 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.382 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 63 Resp: 96098
Ion Ratio Lower Upper
63 100
41 0.0 63.7 95.5#
62 19.1 55.4 83.2#

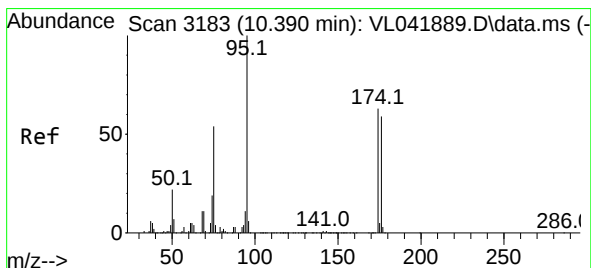
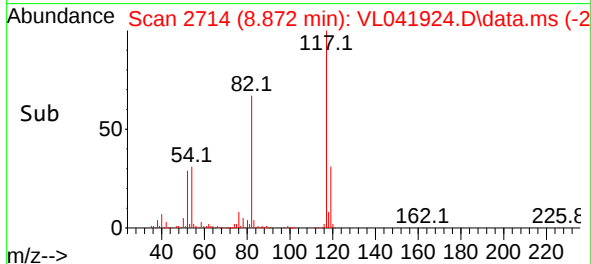
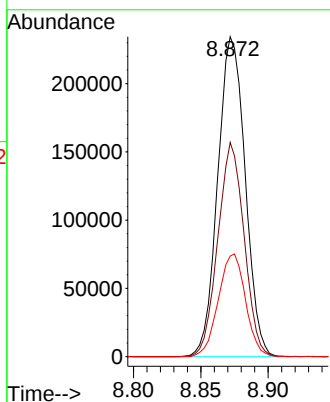
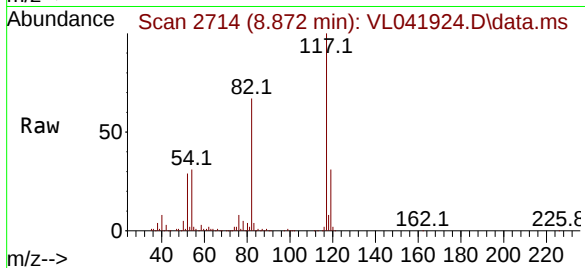




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 331897
Ion Ratio Lower Upper
117 100
82 64.1 54.2 81.4
119 31.8 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.661 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041924.D
Acq: 20 Jan 2025 17:31

Tgt Ion: 95 Resp: 252541
Ion Ratio Lower Upper
95 100
174 59.7 49.0 73.4
175 4.5 3.8 5.8

