

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042125.D
 Acq On : 10 Mar 2025 15:10
 Operator : SY/MD
 Sample : Q1532-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 3

Quant Time: Mar 11 01:25:51 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	165184	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	383076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	325600	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257724	10.288	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

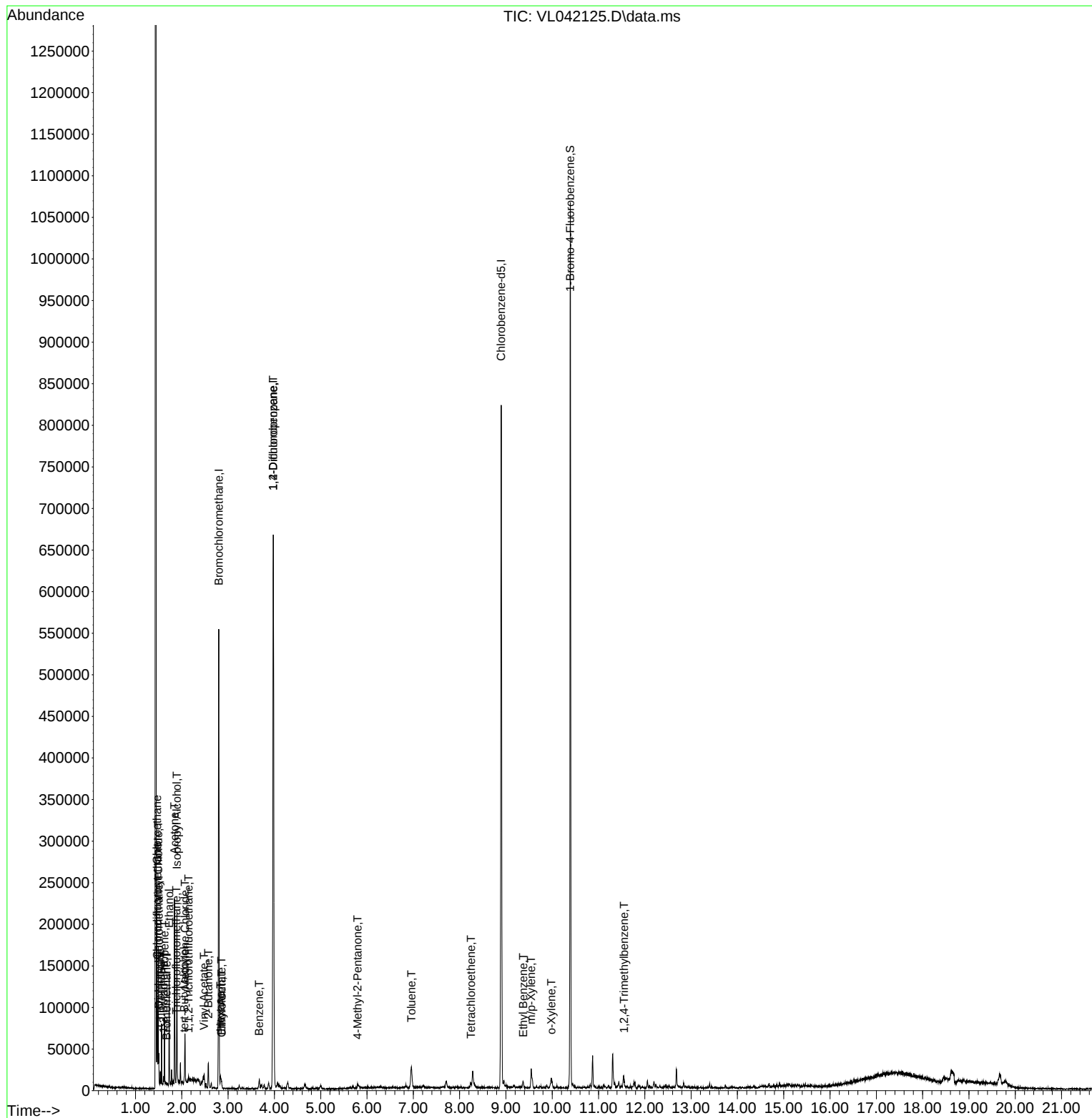
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	8811	0.513	ppbv	98
3) Chlorodifluoromethane	1.470	51	19182	0.799	ppbv #	74
4) Chloromethane	1.538	50	3667	0.577	ppbv	90
5) Vinyl Chloride	1.492	62	214	0.036	ppbv #	43
6) Bromomethane	1.674	94	98	0.034	ppbv #	16
7) Chloroethane	1.463	64	23024	9.431	ppbv #	39
9) Propene	1.625	41	7377	0.754	ppbv	86
11) Trichlorofluoromethane	1.884	101	4245	0.247	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	1225	0.089	ppbv	99
13) Ethanol	1.725	45	49066	79.029	ppbv	91
15) Acetone	1.842	43	95309	6.534	ppbv	99
16) 1,3-Butadiene	1.602	39	1740	0.256	ppbv #	38
17) tert-Butyl alcohol	2.052	59	1951	0.107	ppbv #	86
19) Isopropyl Alcohol	1.894	45	80421	9.598	ppbv #	35
20) Methylene Chloride	2.068	84	8194	1.485	ppbv	90
23) Vinyl Acetate	2.479	43	3197	0.312	ppbv #	61
25) Ethyl Acetate	2.855	43	5486	0.094	ppbv #	85
26) Hexane	2.835	57	2321	0.098	ppbv #	1
29) Chloroform	2.861	83	958	0.030	ppbv #	83
34) 2-Butanone	2.573	43	20566	0.689	ppbv	93
36) Benzene	3.671	78	5810	0.145	ppbv #	82
39) 1,2-Dichloropropane	3.975	63	97746	6.422	ppbv #	23
50) 4-Methyl-2-Pentanone	5.794	43	2599	0.067	ppbv	89
52) Tetrachloroethene	8.244	164	663	0.048	ppbv #	34
53) Toluene	6.959	91	16945	0.378	ppbv	93
58) Ethyl Benzene	9.370	91	4251	0.071	ppbv #	68
59) m/p-Xylene	9.545	91	7952	0.167	ppbv #	100
60) o-Xylene	9.979	91	3534	0.074	ppbv	94
74) 1,2,4-Trimethylbenzene	11.548	105	3079	0.054	ppbv #	63

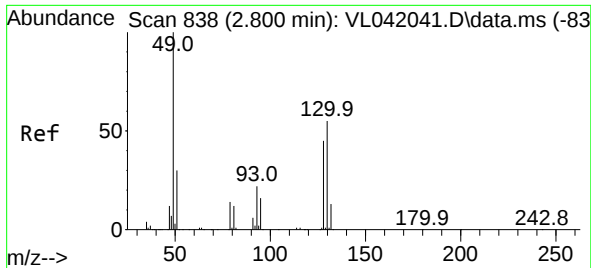
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL042125.D
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Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Mar 11 01:25:51 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

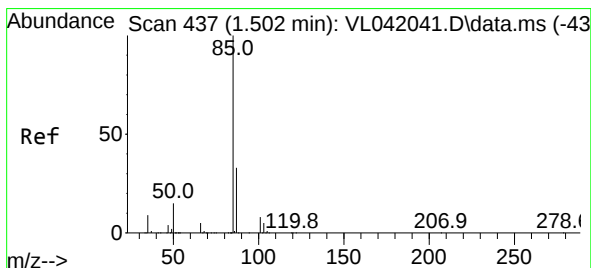
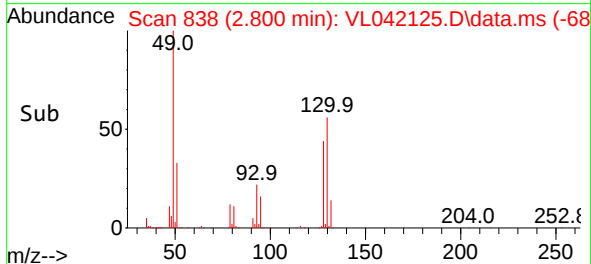
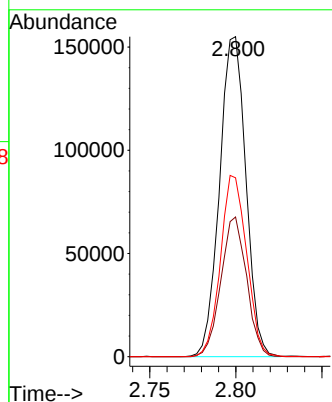
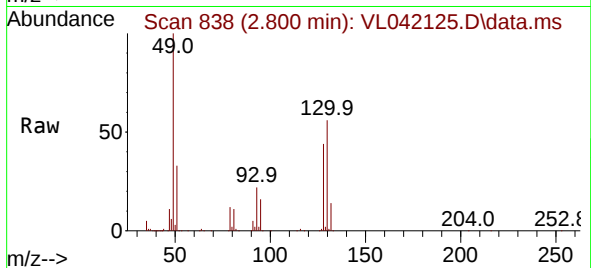




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 838
 Delta R.T. -0.000 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

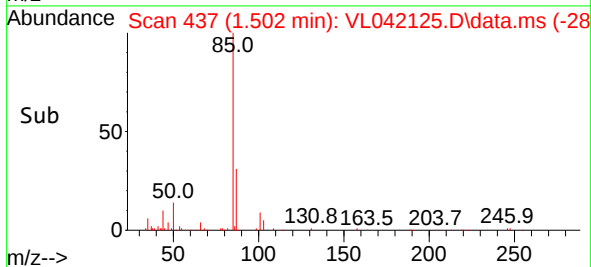
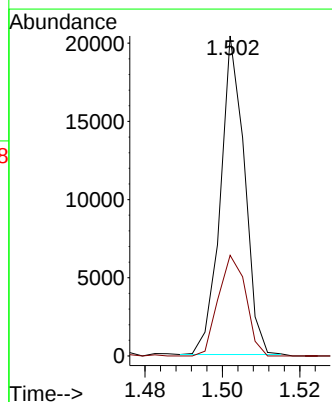
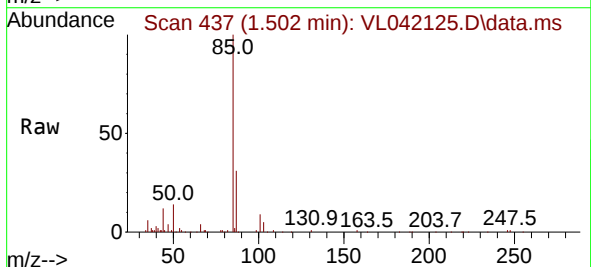
Instrument :
 MSVOA_L
 ClientSampleId :
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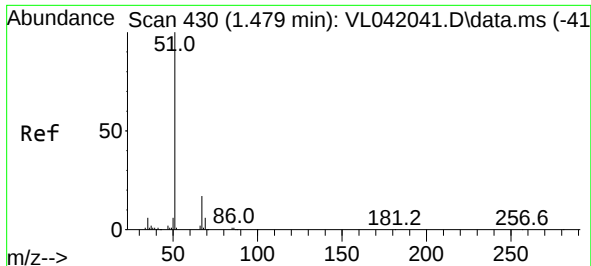
Tgt Ion: 49 Resp: 165184
 Ion Ratio Lower Upper
 49 100
 128 42.5 21.6 64.8
 130 56.3 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.513 ppbv
 RT: 1.502 min Scan# 437
 Delta R.T. -0.000 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

Tgt Ion: 85 Resp: 8811
 Ion Ratio Lower Upper
 85 100
 87 31.6 26.4 39.6

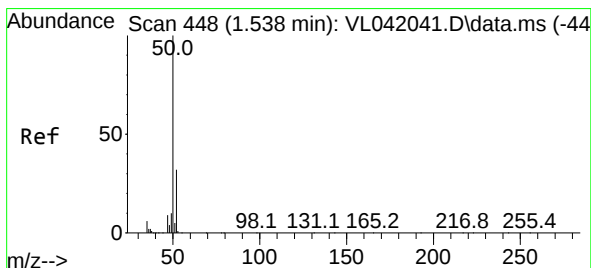
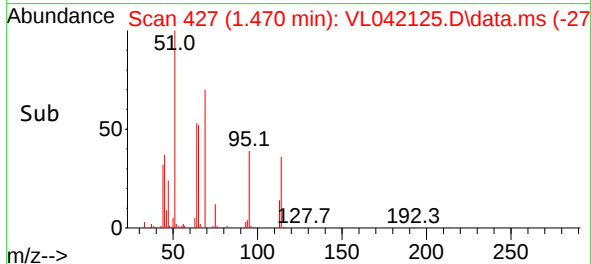
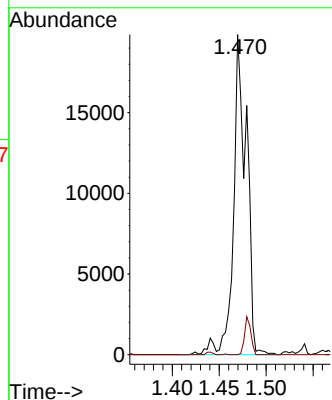
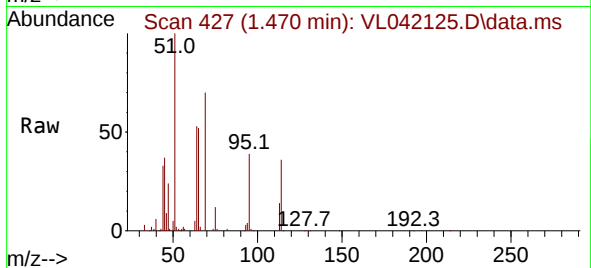




#3
Chlorodifluoromethane
Concen: 0.799 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

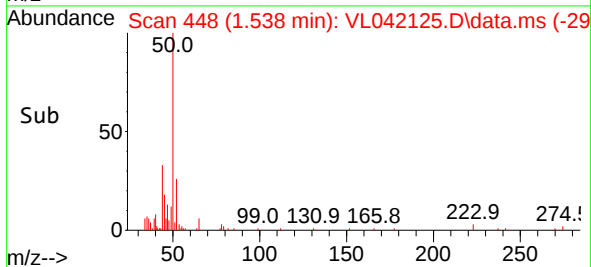
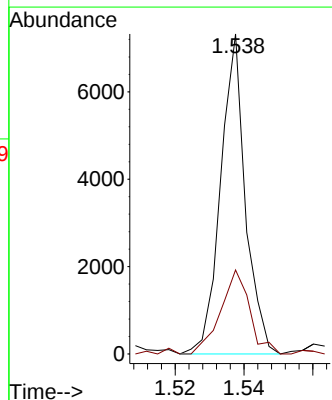
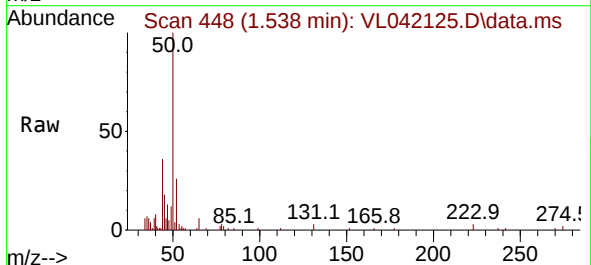
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ClientSampleId :
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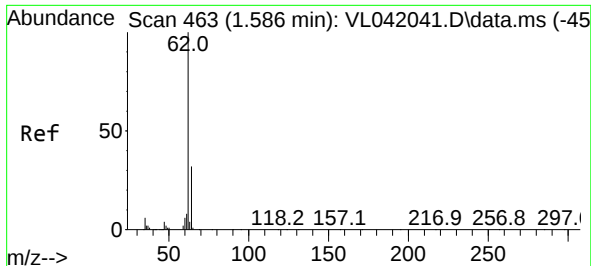
Tgt Ion: 51 Resp: 19182
Ion Ratio Lower Upper
51 100
67 5.7 13.7 20.5#



#4
Chloromethane
Concen: 0.577 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 50 Resp: 3667
Ion Ratio Lower Upper
50 100
52 26.2 25.4 38.0

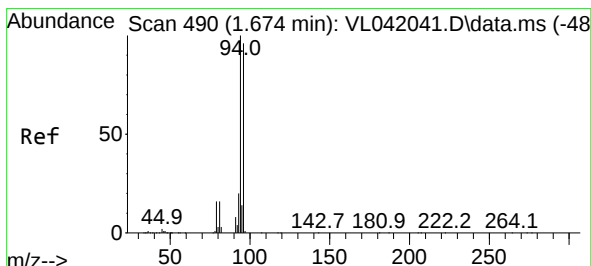
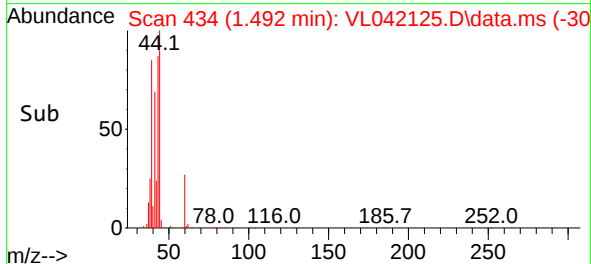
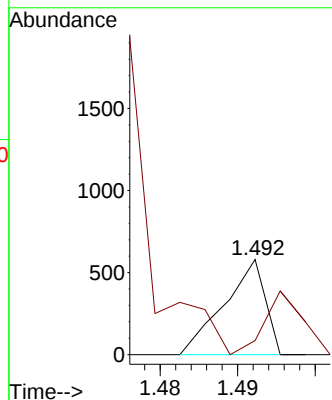
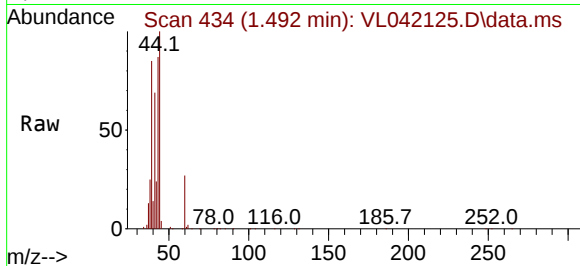




#5
 Vinyl Chloride
 Concen: 0.036 ppbv
 RT: 1.492 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

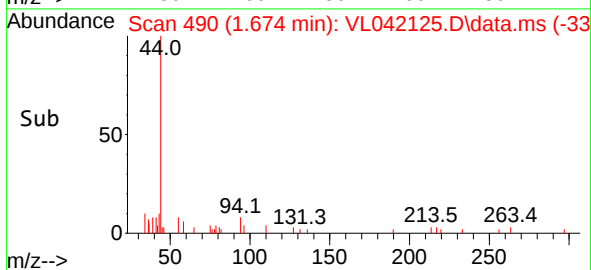
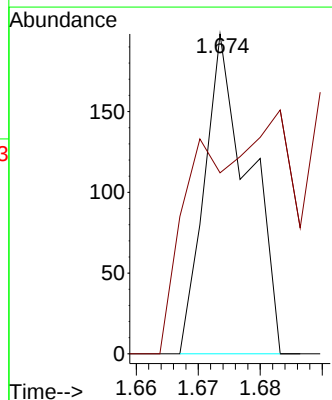
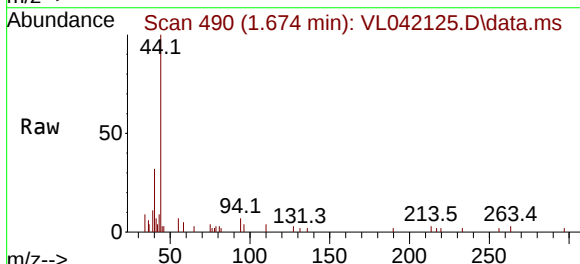
Instrument :
 MSVOA_1
 ClientSampleId :
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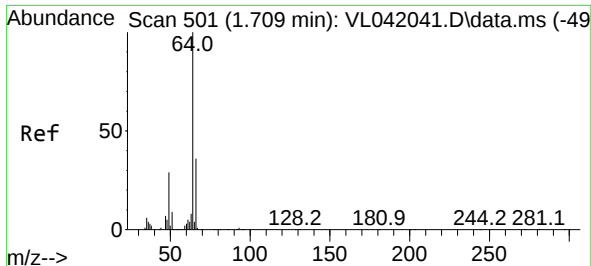
Tgt Ion: 62 Resp: 214
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.3 37.9#



#6
 Bromomethane
 Concen: 0.034 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. -0.000 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

Tgt Ion: 94 Resp: 98
 Ion Ratio Lower Upper
 94 100
 96 13.6 76.5 114.7#

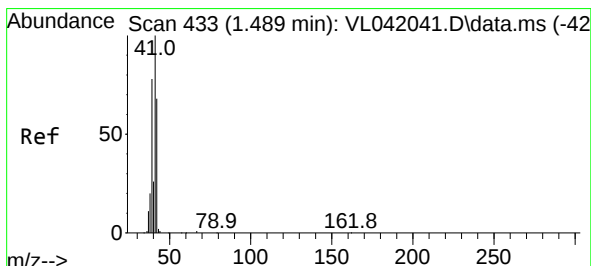
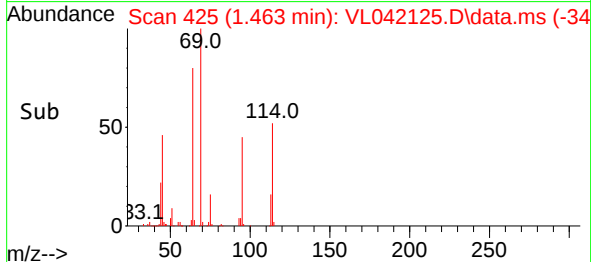
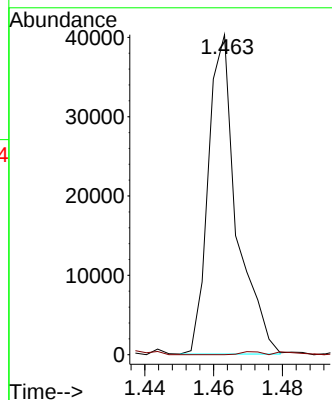
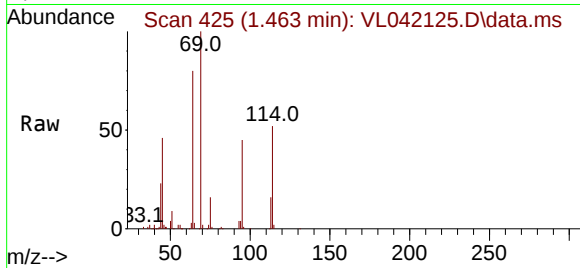




#7
Chloroethane
Concen: 9.431 ppbv
RT: 1.463 min Scan# 41
Delta R.T. -0.246 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

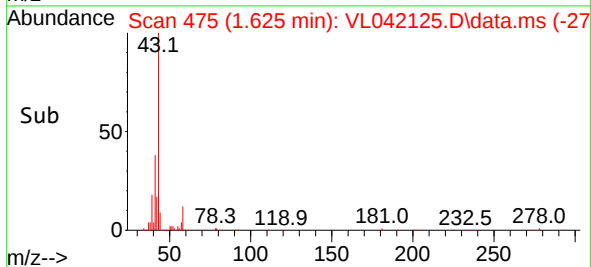
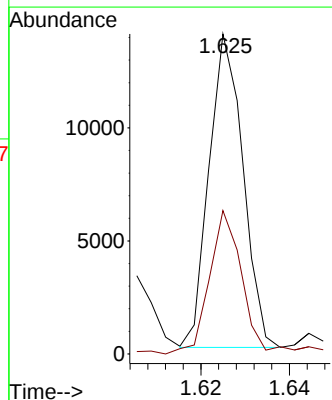
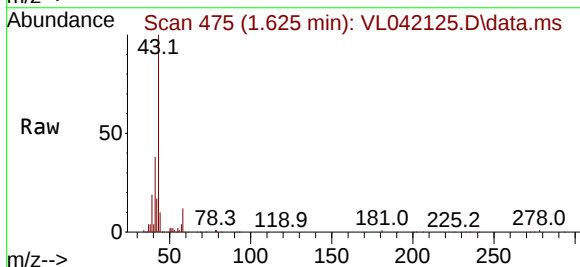
Instrument :
MSVOA_L
ClientSampleId :
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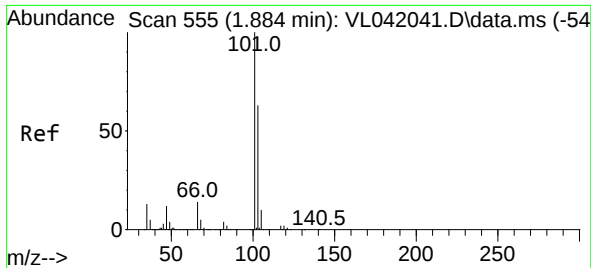
Tgt Ion: 64 Resp: 23024
Ion Ratio Lower Upper
64 100
66 0.0 28.4 42.6#



#9
Propene
Concen: 0.754 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.136 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 41 Resp: 7377
Ion Ratio Lower Upper
41 100
42 58.0 55.8 83.6

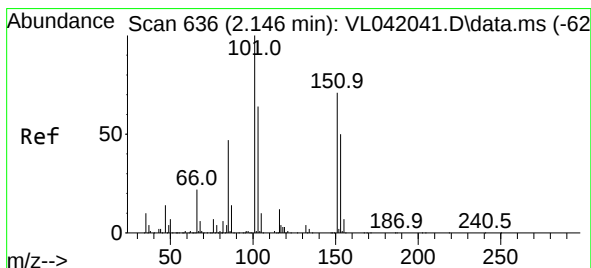
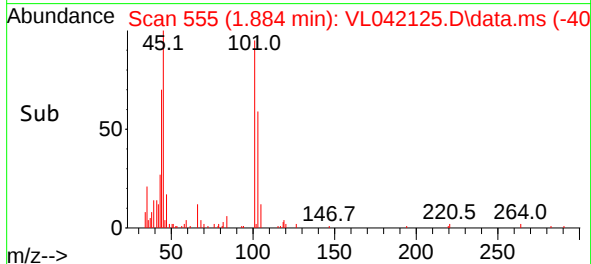
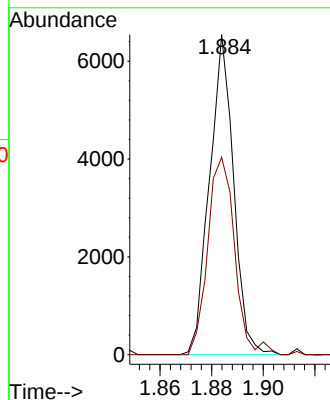
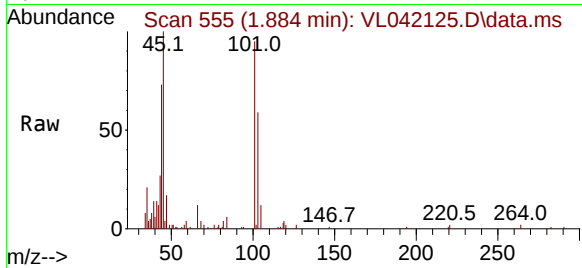




#11
 Trichlorofluoromethane
 Concen: 0.247 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

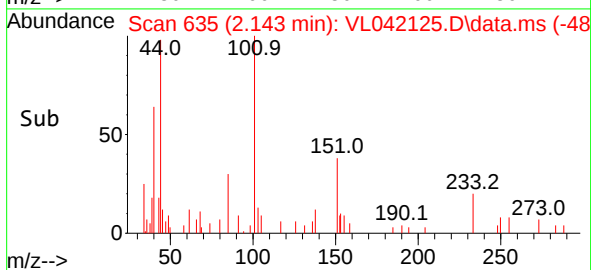
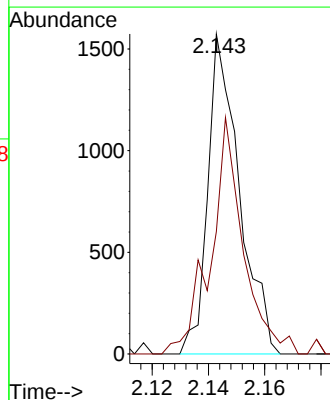
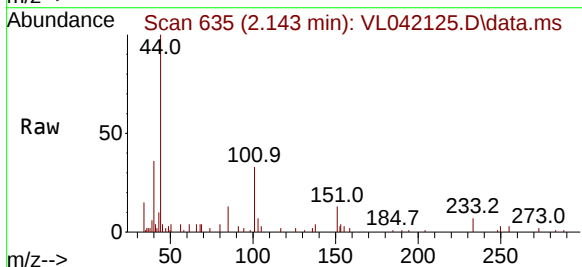
Instrument :
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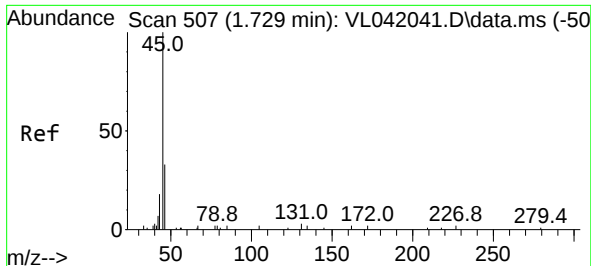
Tgt Ion:101 Resp: 4245
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.089 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.003 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

Tgt Ion:101 Resp: 1225
 Ion Ratio Lower Upper
 101 100
 151 77.4 62.6 94.0

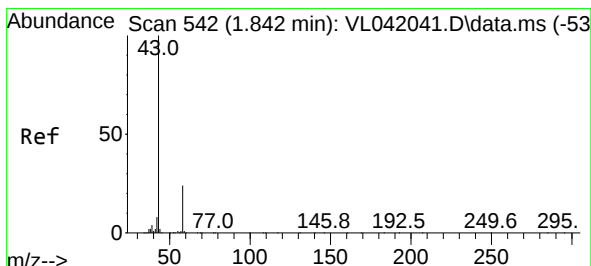
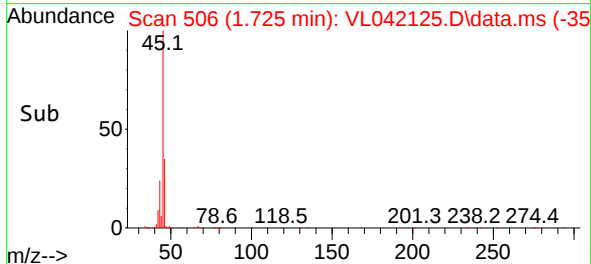
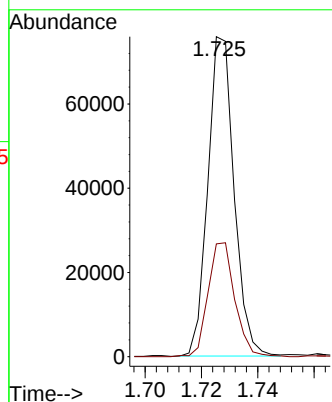
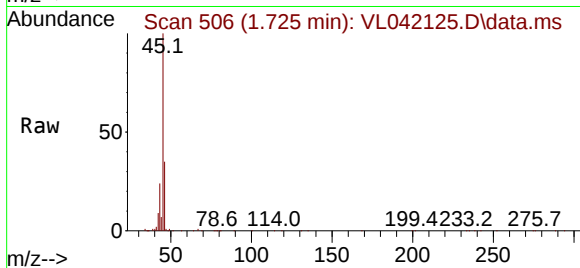




#13
Ethanol
Concen: 79.029 ppbv
RT: 1.725 min Scan# 507
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

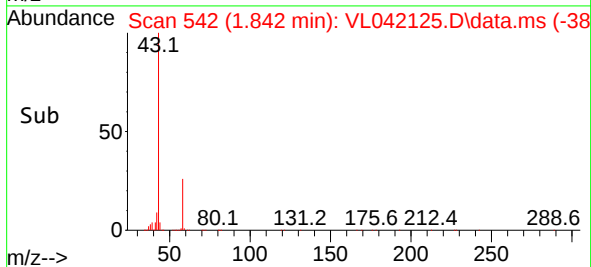
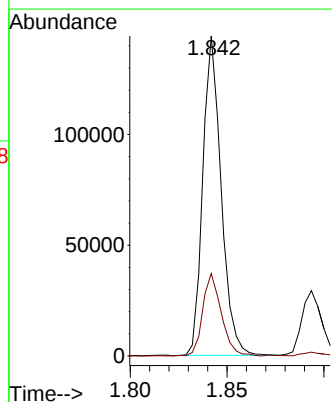
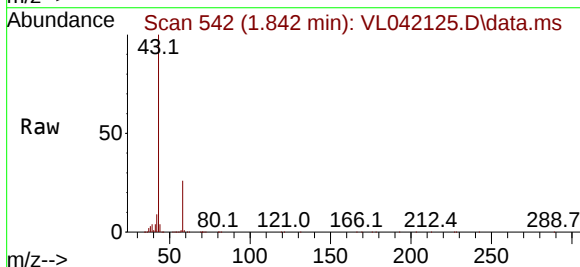
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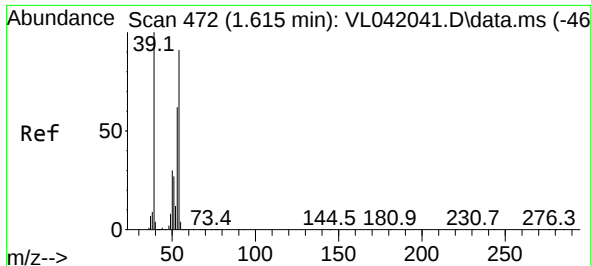
Tgt Ion: 45 Resp: 49066
Ion Ratio Lower Upper
45 100
46 36.6 17.1 68.3



#15
Acetone
Concen: 6.534 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 95309
Ion Ratio Lower Upper
43 100
58 26.2 20.7 31.1





#16

1,3-Butadiene

Concen: 0.256 ppbv

RT: 1.602 min Scan# 41

Delta R.T. -0.013 min

Lab File: VL042125.D

Acq: 10 Mar 2025 15:10

Instrument :

MSVOA_L

ClientSampleId :

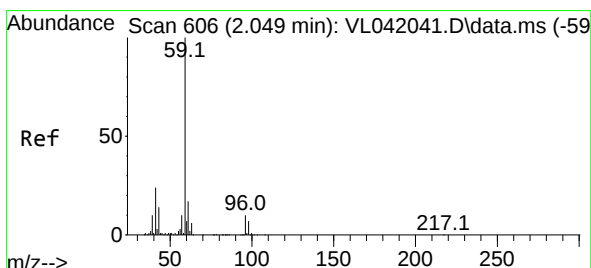
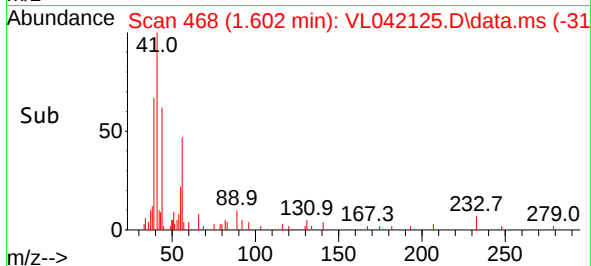
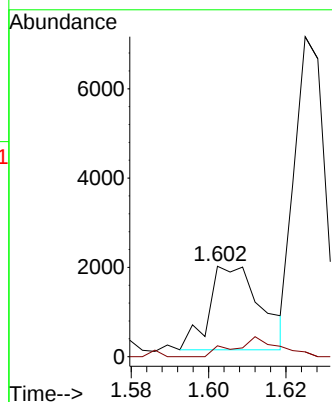
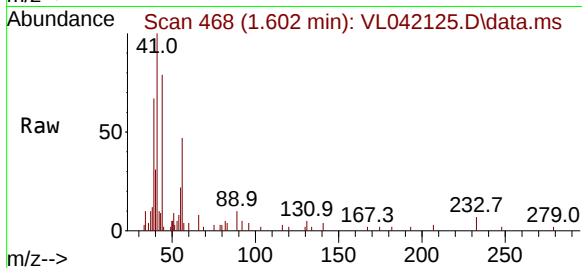
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Tgt Ion: 39 Resp: 1740

Ion Ratio Lower Upper

39 100

54 21.8 59.6 89.4#



#17

tert-Butyl alcohol

Concen: 0.107 ppbv

RT: 2.052 min Scan# 607

Delta R.T. 0.003 min

Lab File: VL042125.D

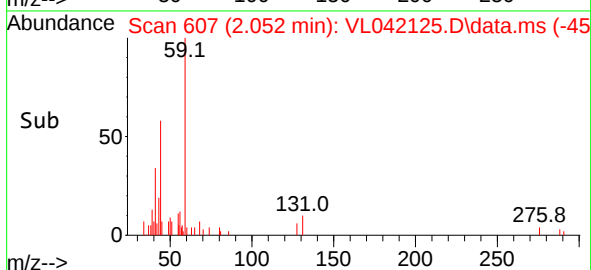
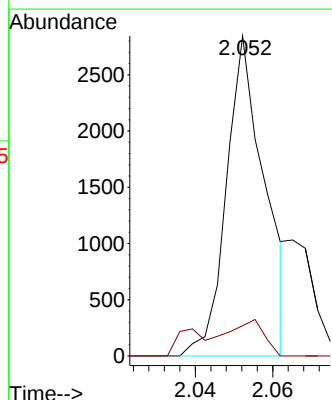
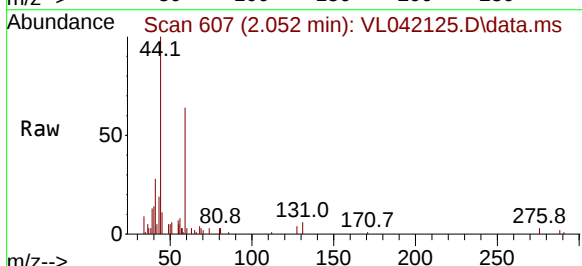
Acq: 10 Mar 2025 15:10

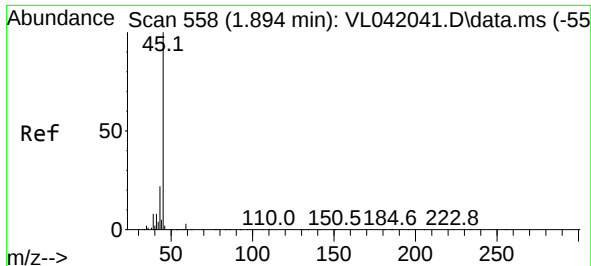
Tgt Ion: 59 Resp: 1951

Ion Ratio Lower Upper

59 100

57 17.2 9.3 13.9#

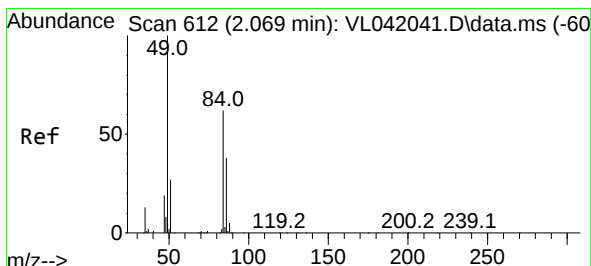
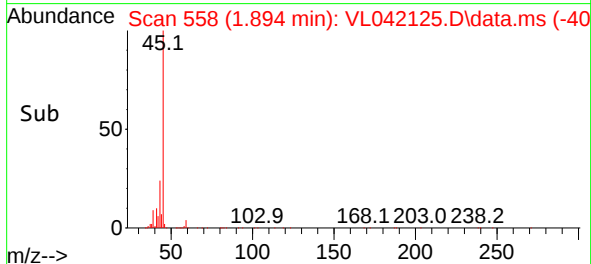
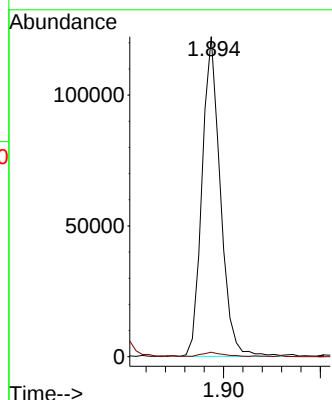
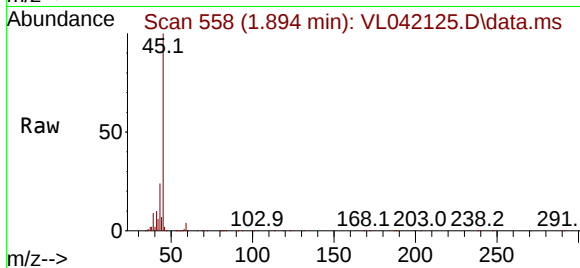




#19
Isopropyl Alcohol
Concen: 9.598 ppbv
RT: 1.894 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

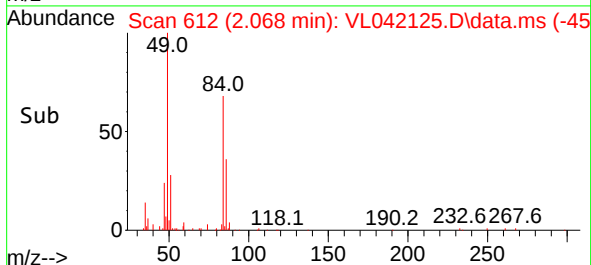
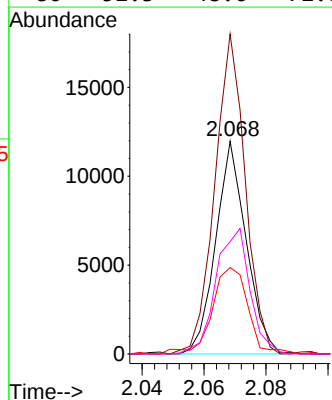
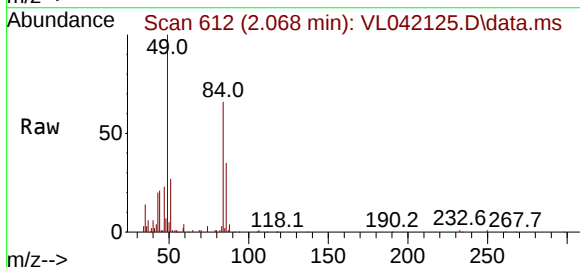
Instrument :
MSVOA_L
ClientSampleId :
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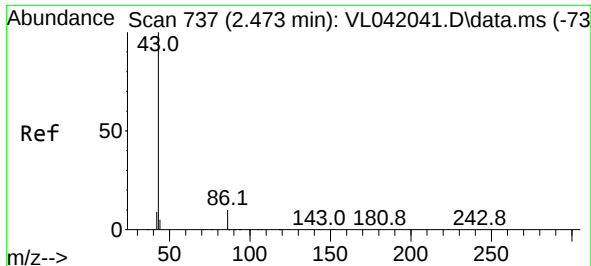
Tgt Ion: 45 Resp: 80421
Ion Ratio Lower Upper
45 100
58 2.0 35.3 52.9#



#20
Methylene Chloride
Concen: 1.485 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 84 Resp: 8194
Ion Ratio Lower Upper
84 100
49 150.4 130.0 195.0
51 38.6 37.4 56.0
86 52.3 48.6 72.8

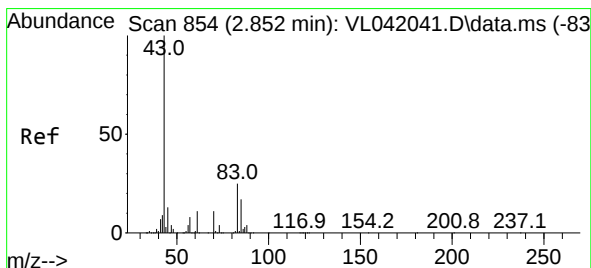
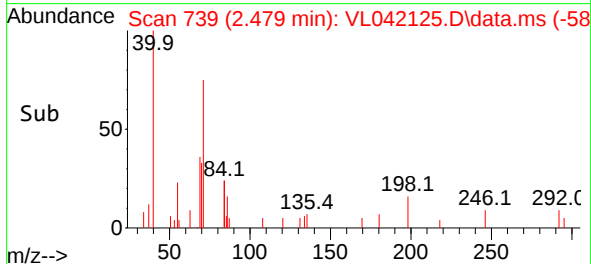
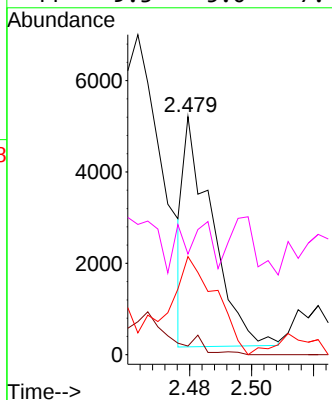
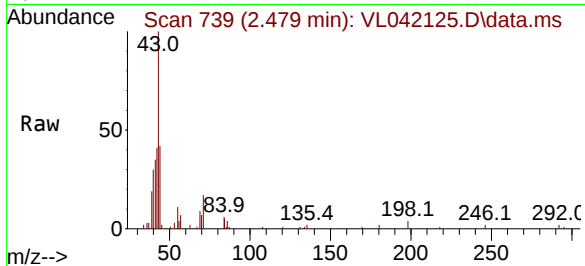




#23
Vinyl Acetate
Concen: 0.312 ppbv
RT: 2.479 min Scan# 713
Delta R.T. 0.006 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

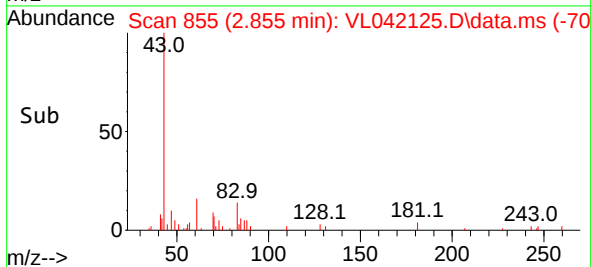
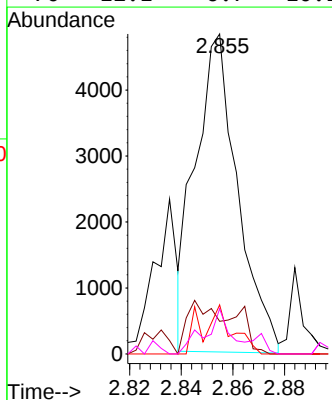
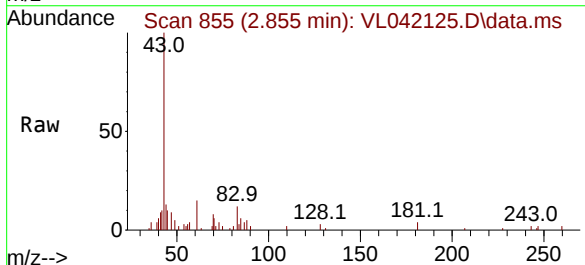
Instrument :
MSVOA_1
ClientSampleId :
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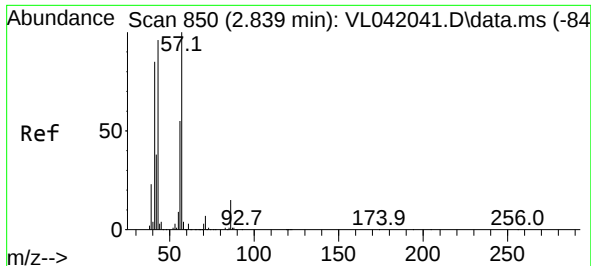
Tgt Ion:	43	Resp:	3197
Ion	Ratio	Lower	Upper
43	100		
86	3.8	7.0	10.4#
42	39.2	7.6	11.4#
44	9.3	5.0	7.4#



#25
Ethyl Acetate
Concen: 0.094 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion:	43	Resp:	5486
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	11.1	7.2	10.8#
70	12.1	6.7	10.1#

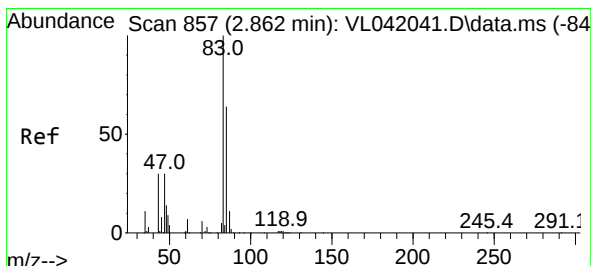
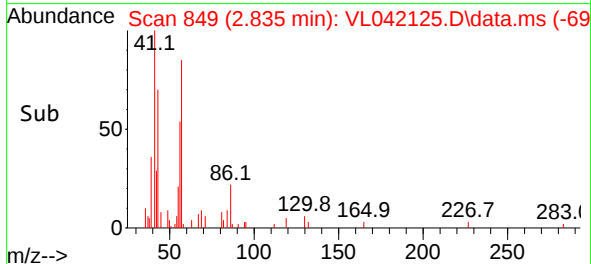
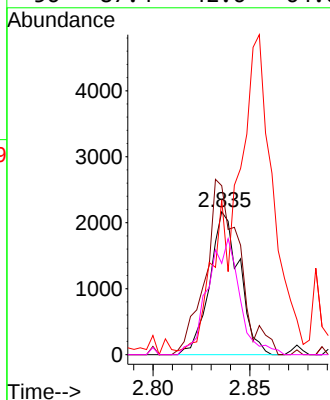
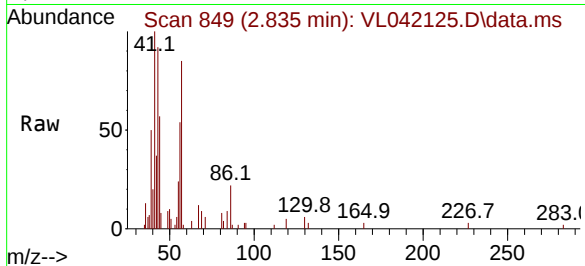




#26
Hexane
Concen: 0.098 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

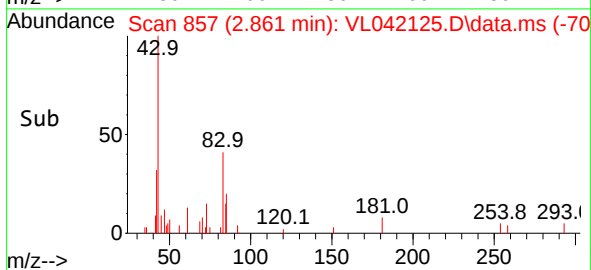
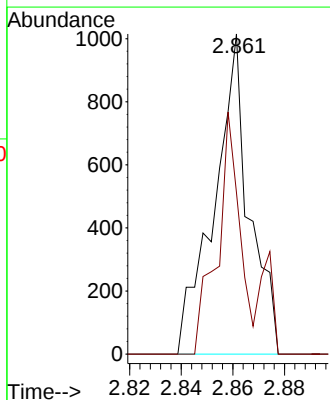
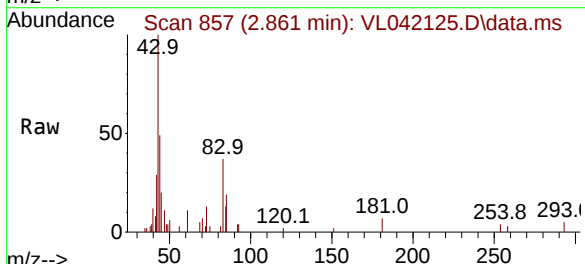
Instrument :
MSVOA_L
ClientSampleId :
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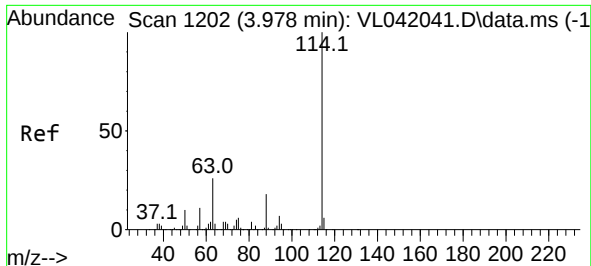
Tgt Ion: 57	Resp: 2321
Ion Ratio	Lower Upper
57 100	
41 139.7	70.6 106.0#
43 0.0	199.4 299.0#
56 87.4	42.6 64.0#



#29
Chloroform
Concen: 0.030 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 83	Resp: 958		
Ion Ratio	Lower	Upper	
83 100			
85 50.5	51.2	76.8#	

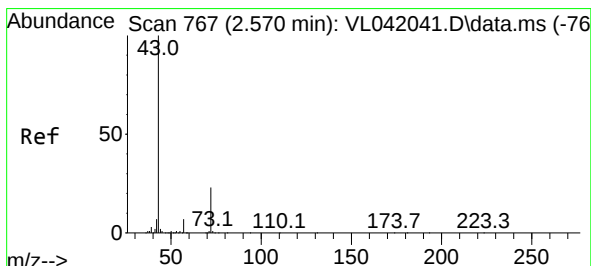
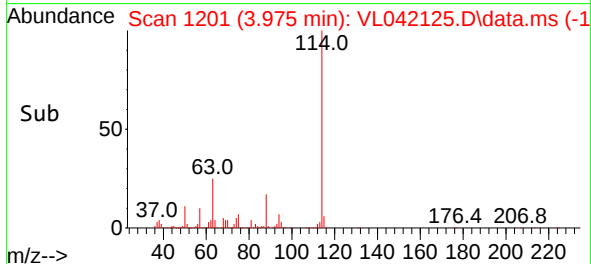
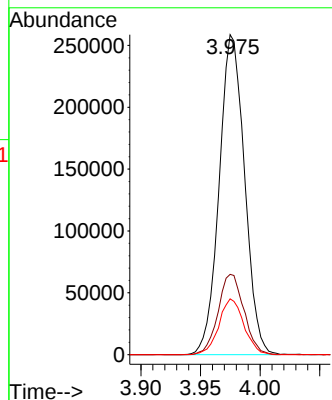
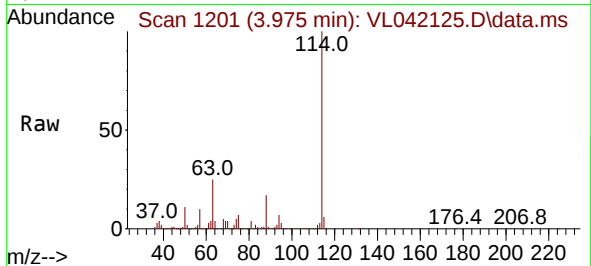




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

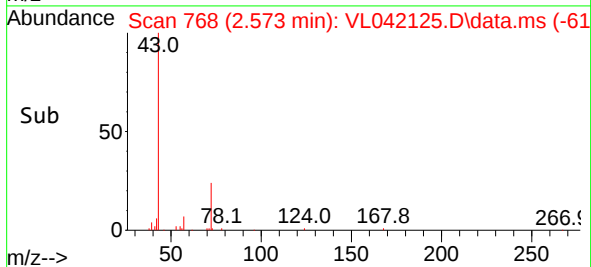
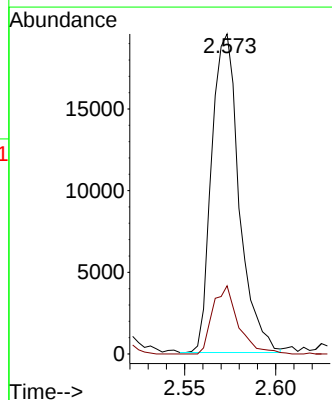
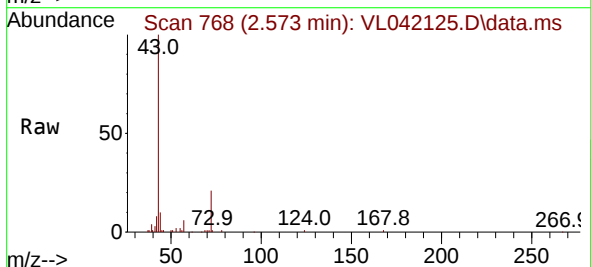
Instrument :
 MSVOA_L
 ClientSampleId :
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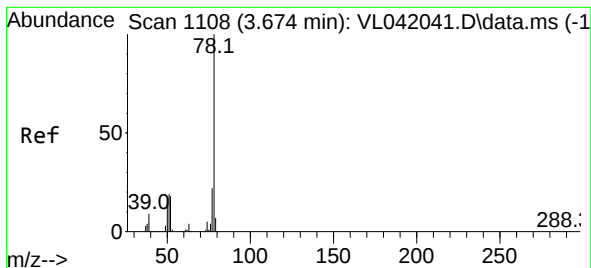
Tgt Ion:114 Resp: 383076
 Ion Ratio Lower Upper
 114 100
 63 25.5 20.1 30.1
 88 17.2 14.3 21.5



#34
 2-Butanone
 Concen: 0.689 ppbv
 RT: 2.573 min Scan# 768
 Delta R.T. 0.003 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10

Tgt Ion: 43 Resp: 20566
 Ion Ratio Lower Upper
 43 100
 72 19.9 18.5 27.7





#36

Benzene

Concen: 0.145 ppbv

RT: 3.671 min Scan# 1108

Delta R.T. -0.003 min

Lab File: VL042125.D

Acq: 10 Mar 2025 15:10

Instrument :

MSVOA_L

ClientSampleId :

3

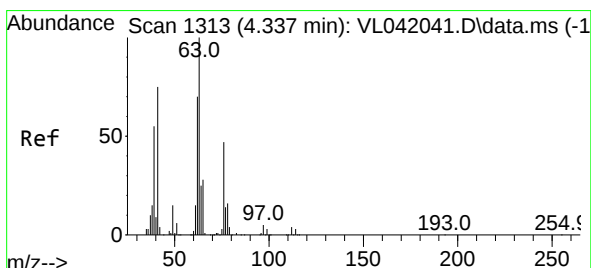
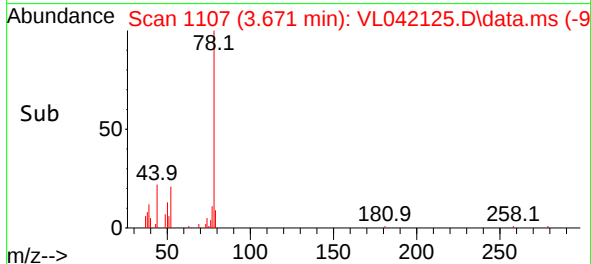
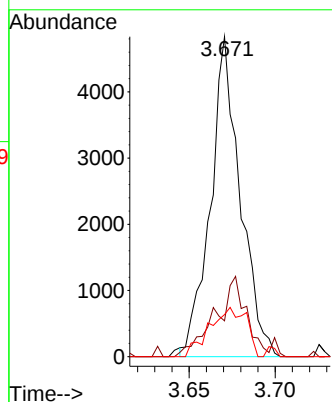
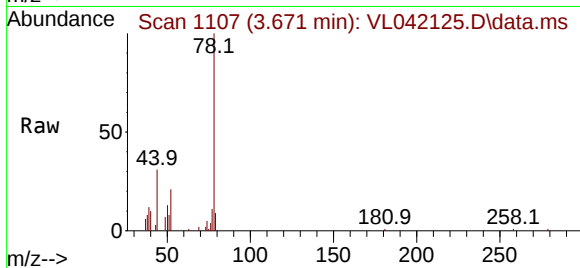
Tgt Ion: 78 Resp: 5810

Ion Ratio Lower Upper

78 100

77 10.1 17.7 26.5#

50 13.1 13.9 20.9#



#39

1,2-Dichloropropane

Concen: 6.422 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.363 min

Lab File: VL042125.D

Acq: 10 Mar 2025 15:10

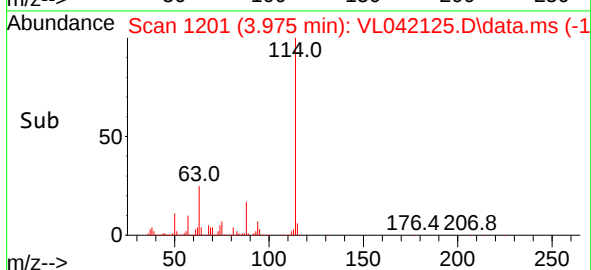
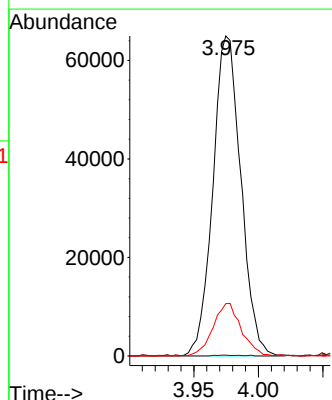
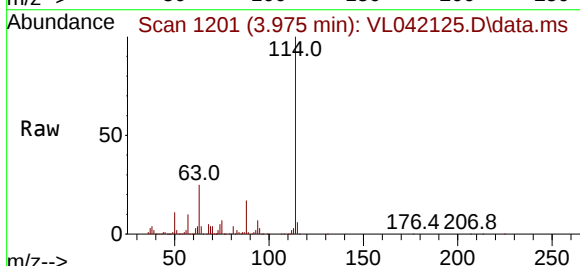
Tgt Ion: 63 Resp: 97746

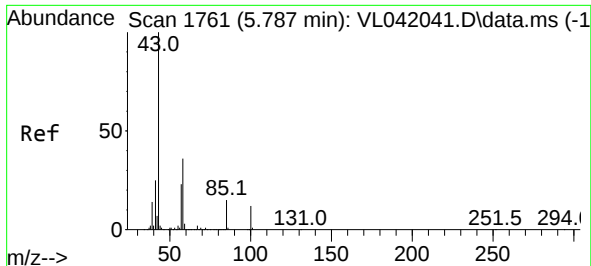
Ion Ratio Lower Upper

63 100

41 0.3 60.1 90.1#

62 16.3 55.8 83.8#

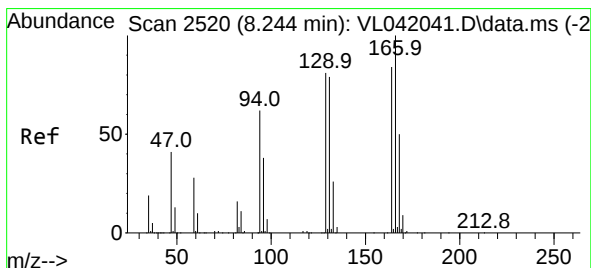
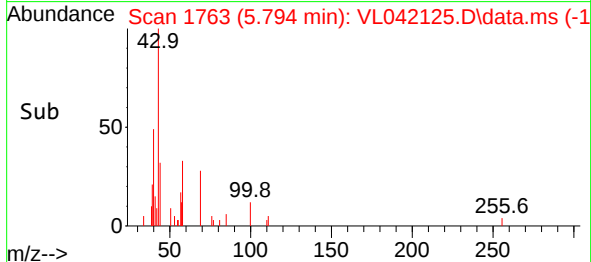
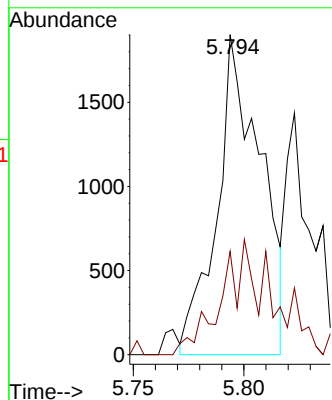
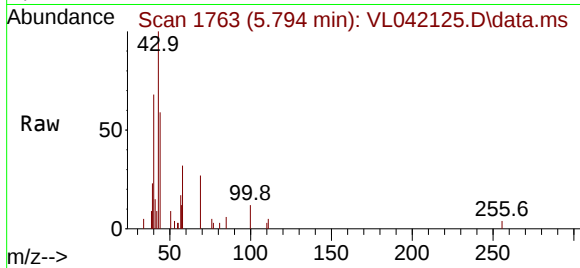




#50
4-Methyl-2-Pentanone
Concen: 0.067 ppbv
RT: 5.794 min Scan# 1763
Delta R.T. 0.006 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

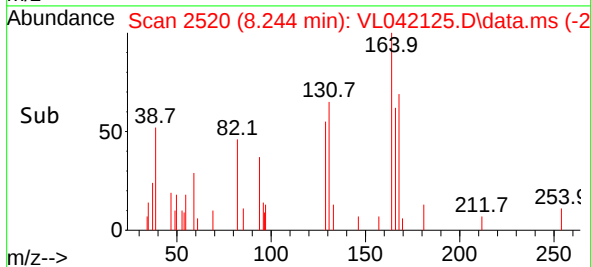
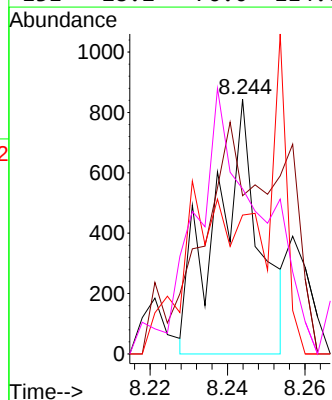
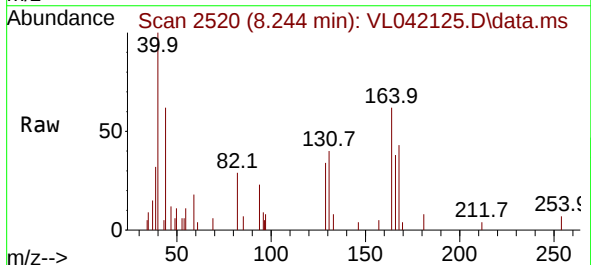
Instrument :
MSVOA_L
ClientSampleId :
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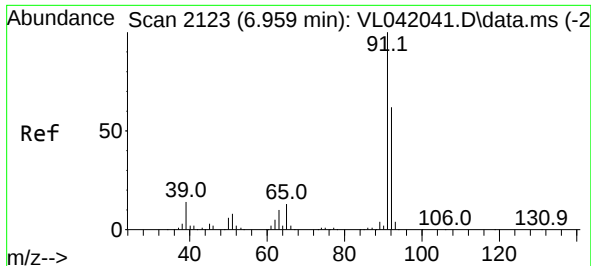
Tgt Ion: 43 Resp: 2599
Ion Ratio Lower Upper
43 100
58 43.2 29.3 43.9



#52
Tetrachloroethene
Concen: 0.048 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 164 Resp: 663
Ion Ratio Lower Upper
164 100
166 41.0 95.7 143.5#
129 40.7 77.1 115.7#
131 28.2 76.0 114.0#

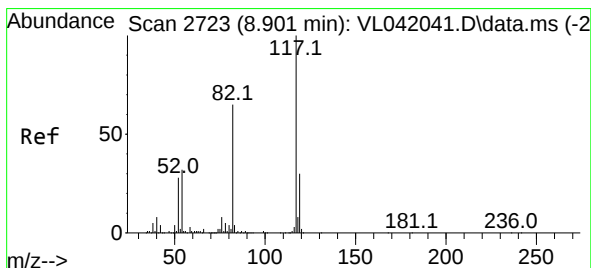
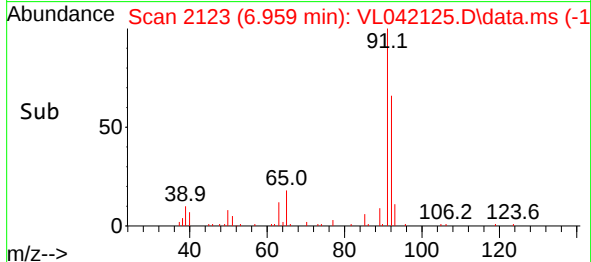
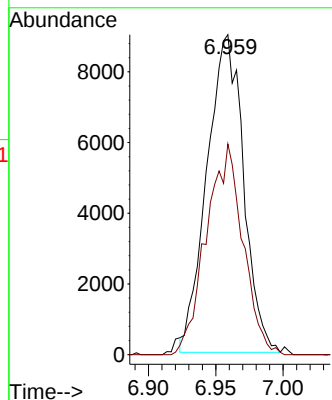
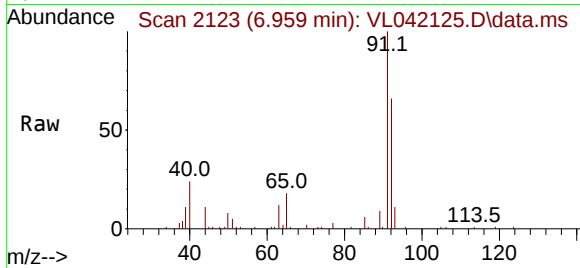




#53
Toluene
Concen: 0.378 ppbv
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

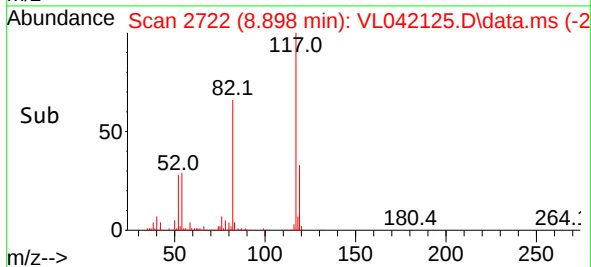
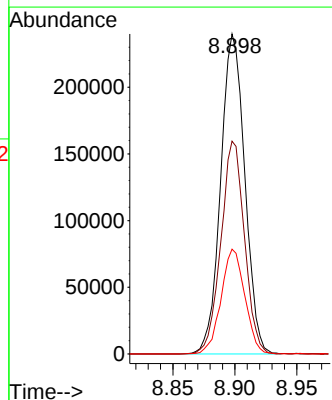
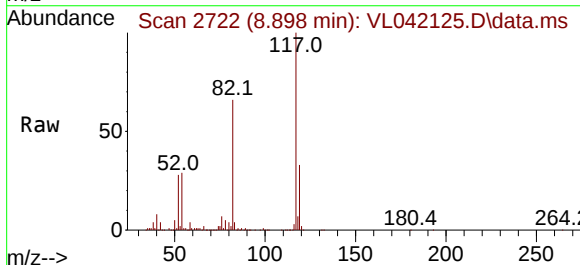
Instrument :
MSVOA_L
ClientSampleId :
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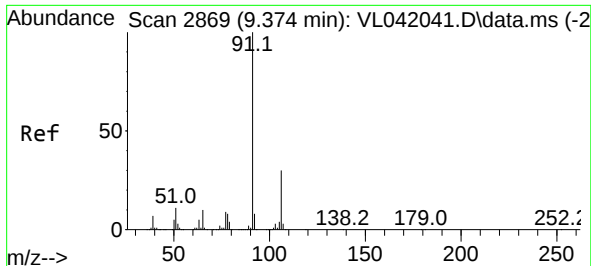
Tgt Ion: 91 Resp: 16945
Ion Ratio Lower Upper
91 100
92 66.4 49.0 73.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

Tgt Ion: 117 Resp: 325600
Ion Ratio Lower Upper
117 100
82 65.0 55.0 82.6
119 32.4 25.9 38.9





#58

Ethyl Benzene

Concen: 0.071 ppbv

RT: 9.370 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042125.D

Acq: 10 Mar 2025 15:10

Instrument :

MSVOA_L

ClientSampleId :

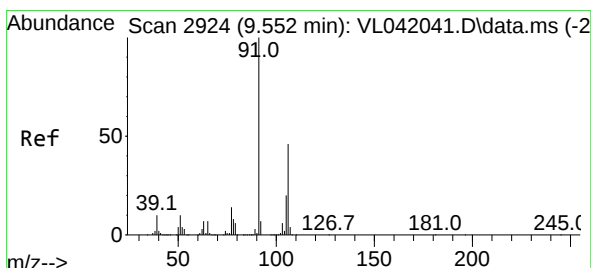
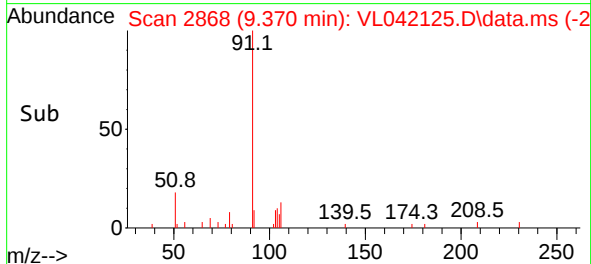
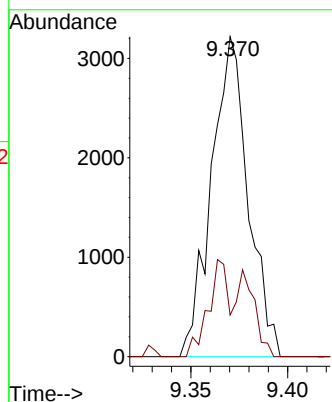
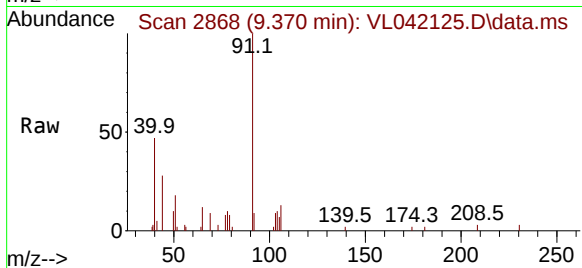
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Tgt Ion: 91 Resp: 4251

Ion Ratio Lower Upper

91 100

106 13.0 24.2 36.2#



#59

m/p-Xylene

Concen: 0.167 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. -0.007 min

Lab File: VL042125.D

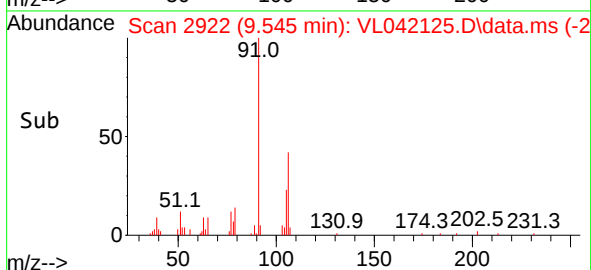
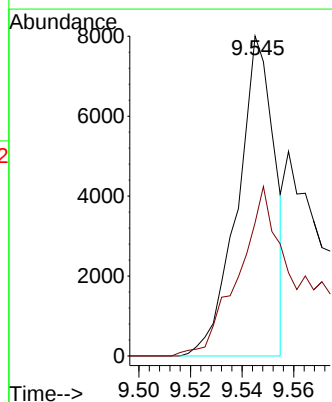
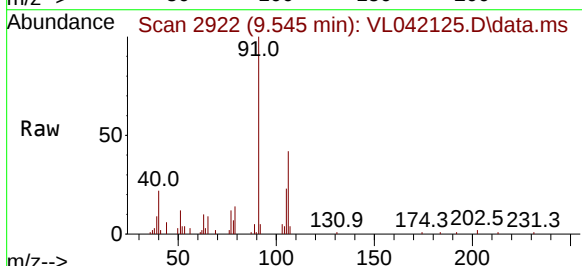
Acq: 10 Mar 2025 15:10

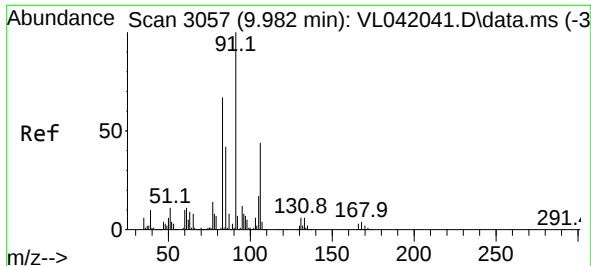
Tgt Ion: 91 Resp: 7952

Ion Ratio Lower Upper

91 100

106 87.3 0.0 0.0#

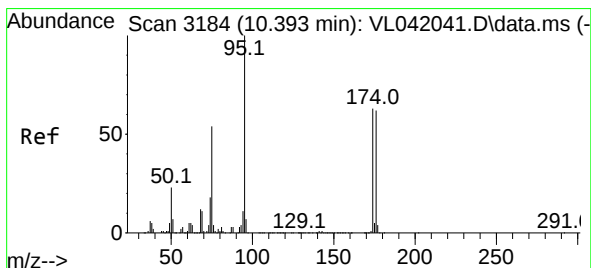
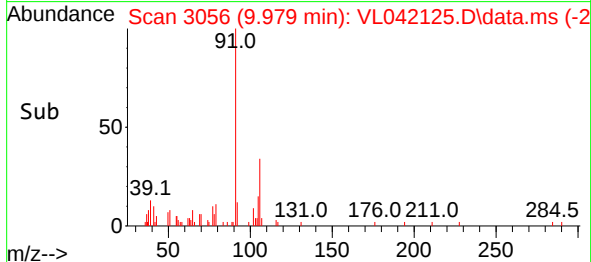
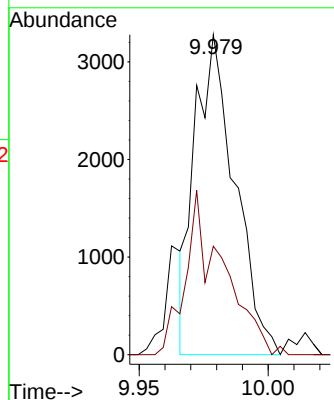
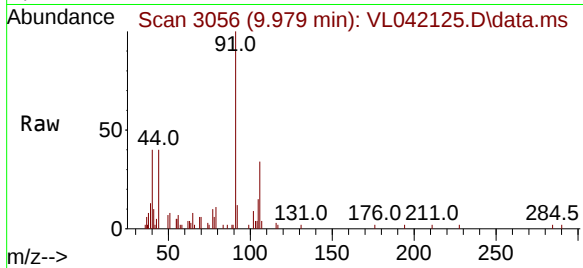




#60
o-Xylene
Concen: 0.074 ppbv
RT: 9.979 min Scan# 3057
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

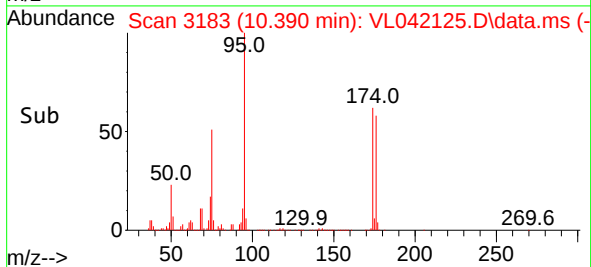
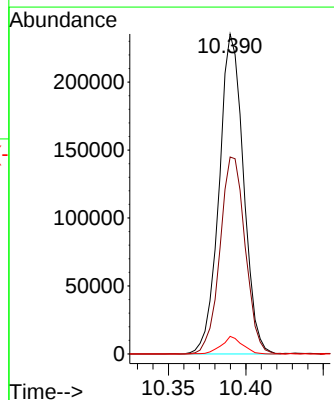
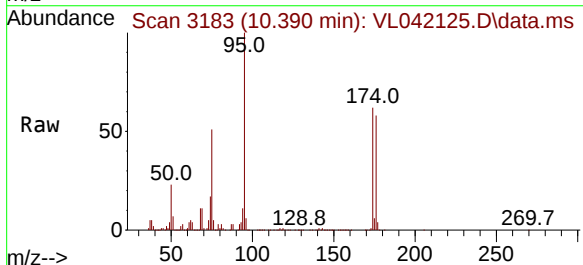
Instrument :
MSVOA_L
ClientSampleId :
3

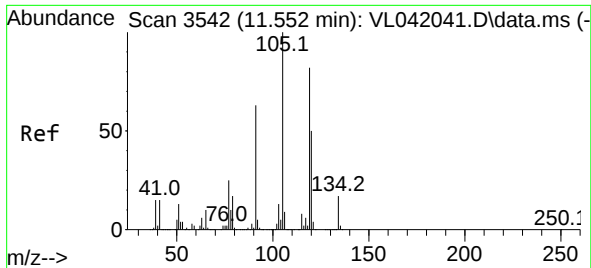
Tgt Ion: 91 Resp: 3534
Ion Ratio Lower Upper
91 100
106 48.5 22.3 66.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.288 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042125.D
Acq: 10 Mar 2025 15:10

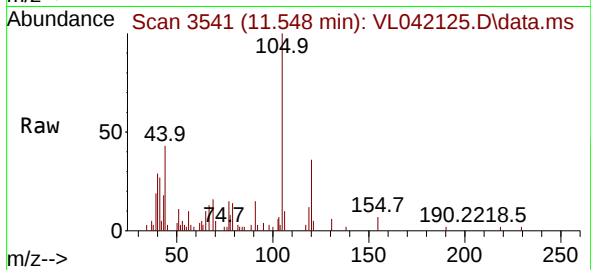
Tgt Ion: 95 Resp: 257724
Ion Ratio Lower Upper
95 100
174 63.7 51.8 77.6
175 4.7 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.054 ppbv
 RT: 11.548 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042125.D
 Acq: 10 Mar 2025 15:10 3

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	3079
Ion	Ratio	Lower	Upper
105	100		
120	36.4	40.2	60.2#
91	15.3	51.4	77.2#
77	23.2	20.1	30.1

