

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042125\
 Data File : VL042400.D
 Acq On : 21 Apr 2025 12:07
 Operator : SY/MD
 Sample : Q1801-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS2R

Quant Time: Apr 22 02:52:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

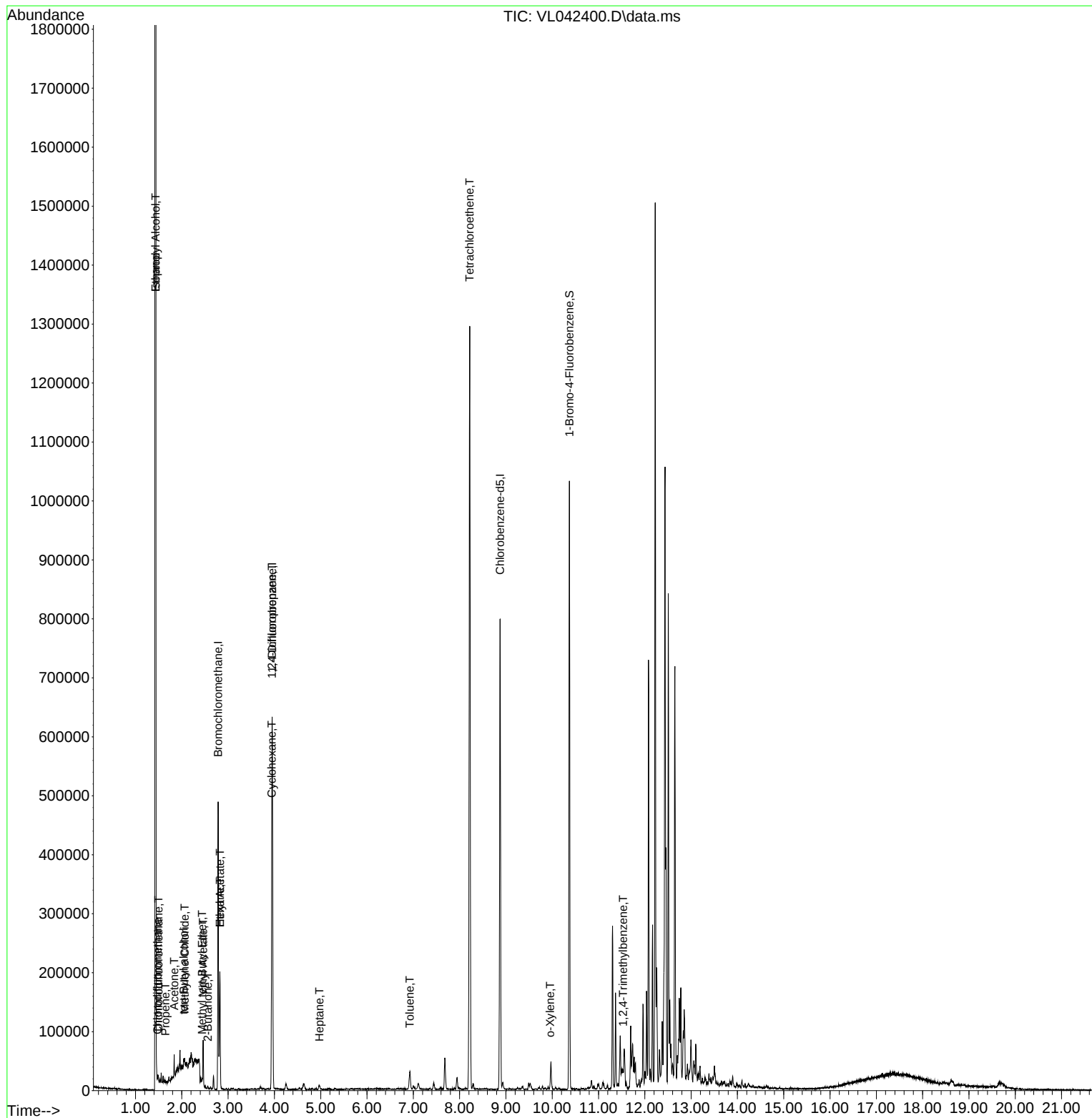
Internal Standards						
1) Bromochloromethane	2.784	49	127438	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	352813	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	303522	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	261136	10.470	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2752	0.122	ppbv	90
3) Chlorodifluoromethane	1.473	51	987	0.046	ppbv #	78
9) Propene	1.648	41	468	0.048	ppbv	88
10) Heptane	4.972	43	848	0.031	ppbv #	1
13) Ethanol	1.437	45	102001	65.724	ppbv #	1
15) Acetone	1.835	43	15004	0.719	ppbv	93
17) tert-Butyl alcohol	2.043	59	3849	0.149	ppbv #	44
19) Isopropyl Alcohol	1.437	45	102001	8.801	ppbv #	33
20) Methylene Chloride	2.062	84	1839	0.225	ppbv #	87
23) Vinyl Acetate	2.460	43	53575	6.344	ppbv #	96
25) Ethyl Acetate	2.823	43	31244	0.607	ppbv #	78
26) Hexane	2.823	57	42883	2.060	ppbv #	26
28) Methyl tert-Butyl Ether	2.441	73	1473	0.108	ppbv #	48
30) Cyclohexane	3.942	84	757	0.045	ppbv #	20
34) 2-Butanone	2.560	43	2937	0.105	ppbv	98
39) 1,2-Dichloropropane	3.949	63	98956	6.978	ppbv #	22
52) Tetrachloroethene	8.218	164	197775	13.446	ppbv #	86
53) Toluene	6.923	91	20734	0.454	ppbv	96
60) o-Xylene	9.956	91	1637	0.034	ppbv #	33
74) 1,2,4-Trimethylbenzene	11.529	105	7515	0.122	ppbv #	61

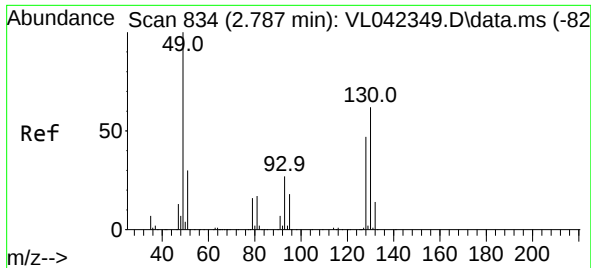
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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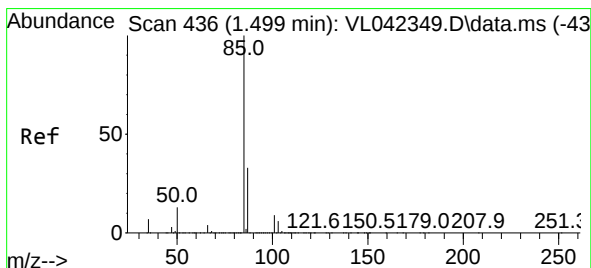
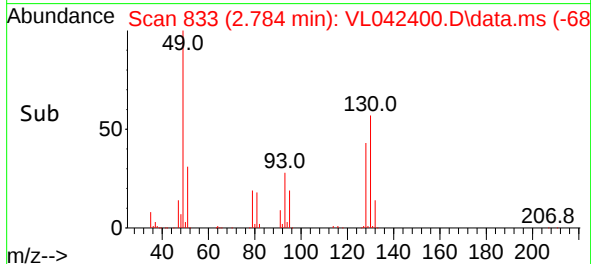
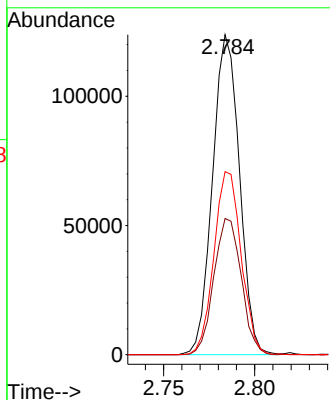
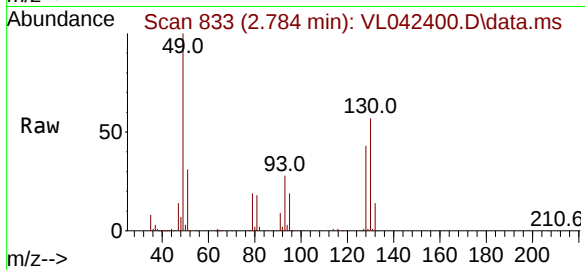




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

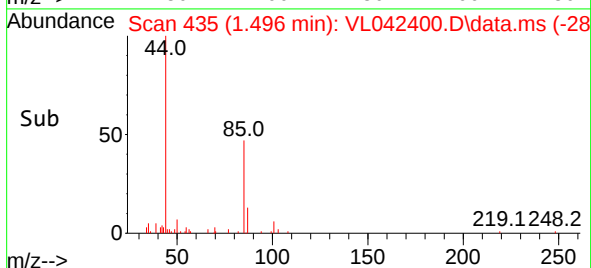
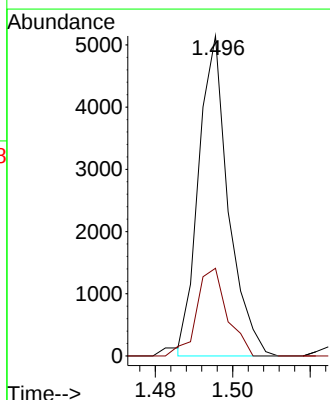
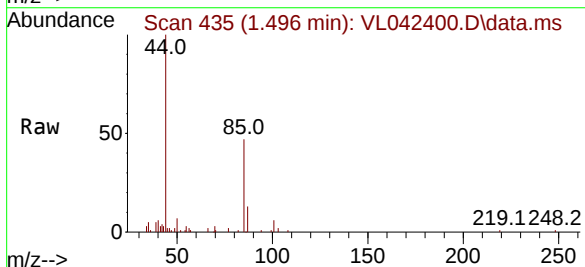
Instrument :
MSVOA_L
ClientSampleId :
SS2R

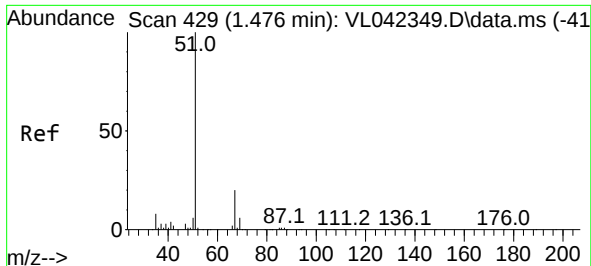
Tgt Ion: 49 Resp: 127438
Ion Ratio Lower Upper
49 100
128 43.3 22.8 68.4
130 57.8 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.122 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 85 Resp: 2752
Ion Ratio Lower Upper
85 100
87 27.4 26.6 39.8

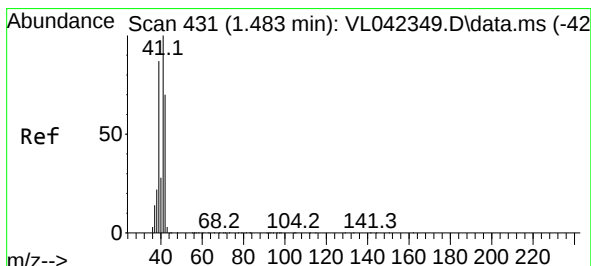
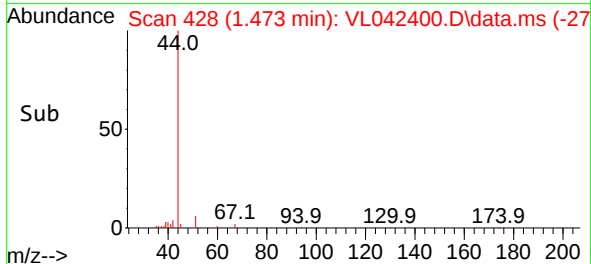
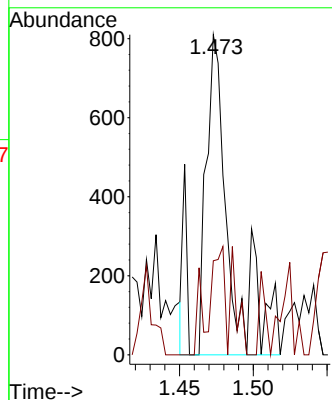
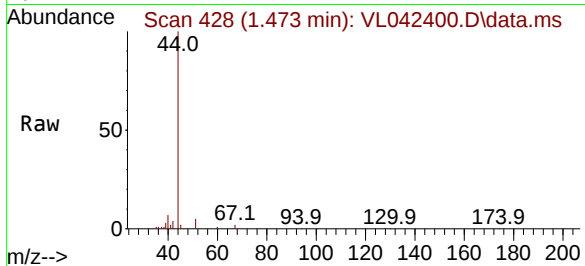




#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

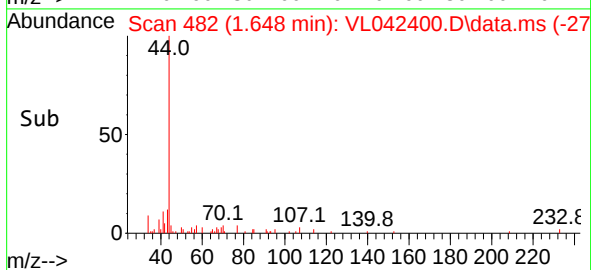
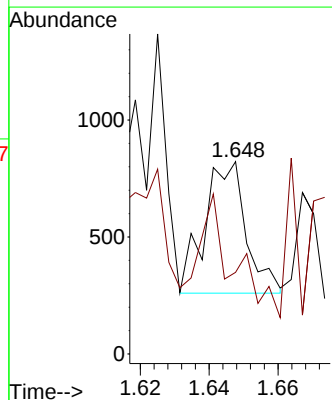
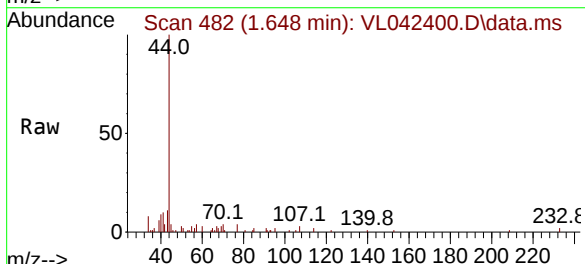
Instrument :
MSVOA_L
ClientSampleId :
SS2R

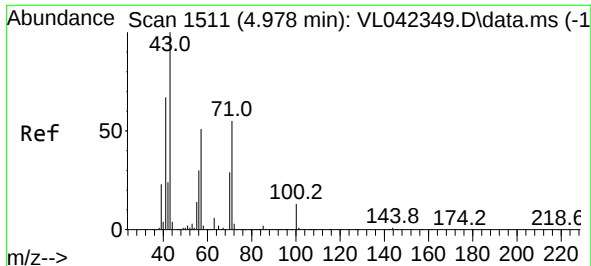
Tgt Ion: 51 Resp: 987
Ion Ratio Lower Upper
51 100
67 30.6 16.2 24.4#



#9
Propene
Concen: 0.048 ppbv
RT: 1.648 min Scan# 482
Delta R.T. 0.165 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 41 Resp: 468
Ion Ratio Lower Upper
41 100
42 80.1 56.2 84.4

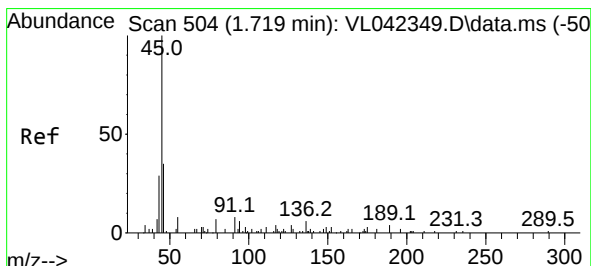
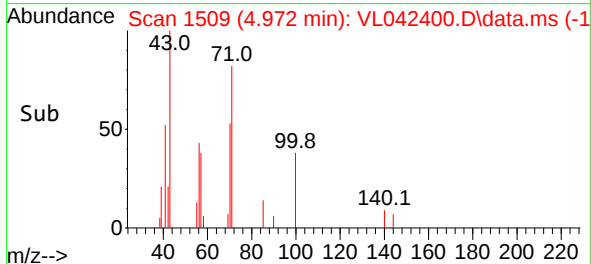
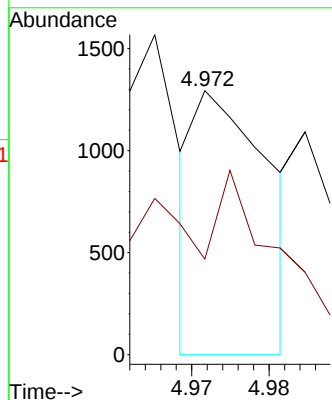
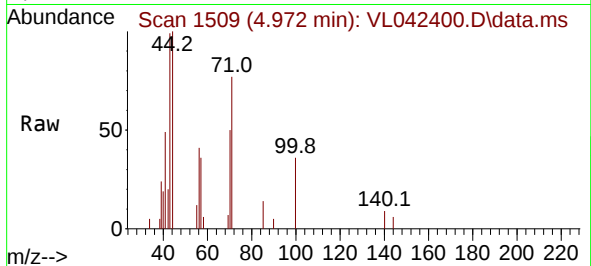




#10
Heptane
Concen: 0.031 ppbv
RT: 4.972 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

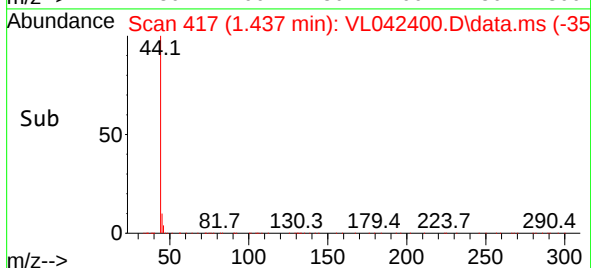
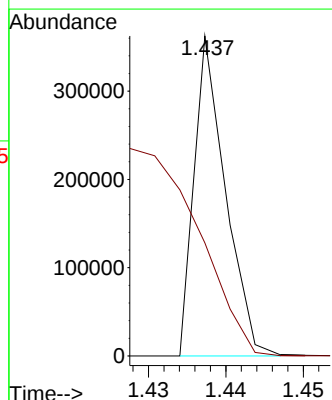
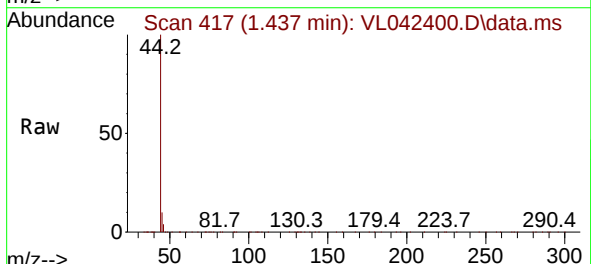
Instrument :
MSVOA_L
ClientSampleId :
SS2R

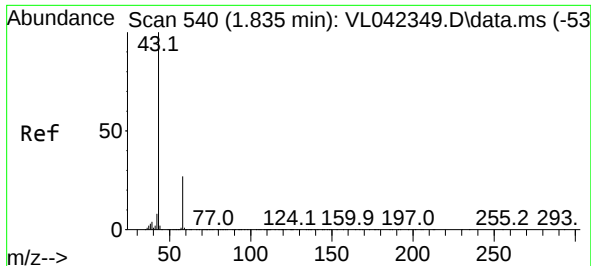
Tgt Ion: 43 Resp: 848
Ion Ratio Lower Upper
43 100
57 186.1 39.9 59.9#



#13
Ethanol
Concen: 65.724 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.282 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 45 Resp: 102001
Ion Ratio Lower Upper
45 100
46 254.7 21.9 87.7#





#15

Acetone

Concen: 0.719 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.000 min

Lab File: VL042400.D

Acq: 21 Apr 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

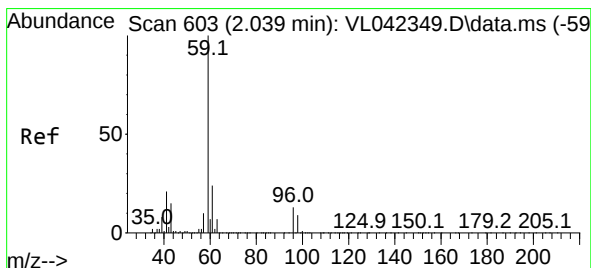
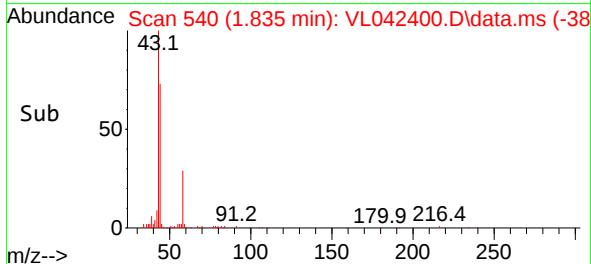
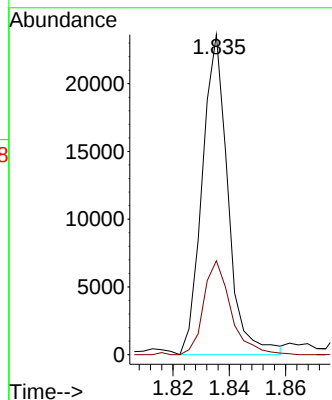
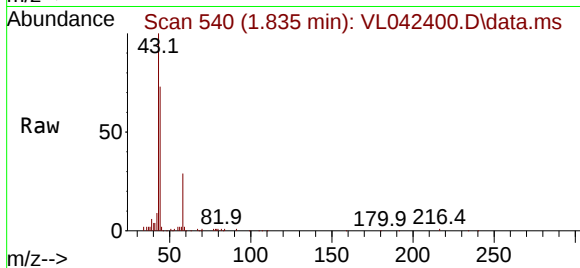
SS2R

Tgt Ion: 43 Resp: 15004

Ion Ratio Lower Upper

43 100

58 31.5 22.4 33.6



#17

tert-Butyl alcohol

Concen: 0.149 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042400.D

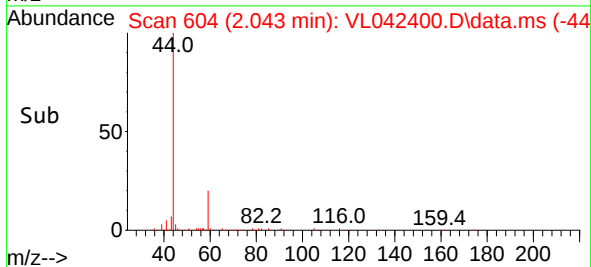
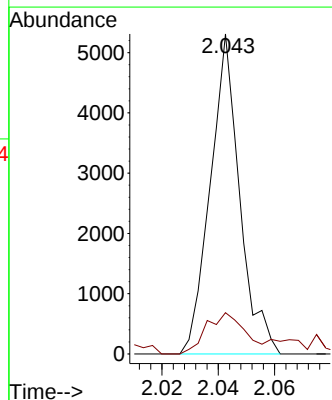
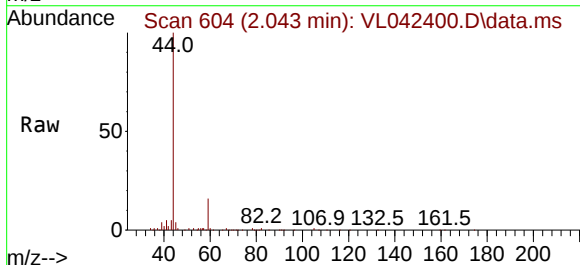
Acq: 21 Apr 2025 12:07

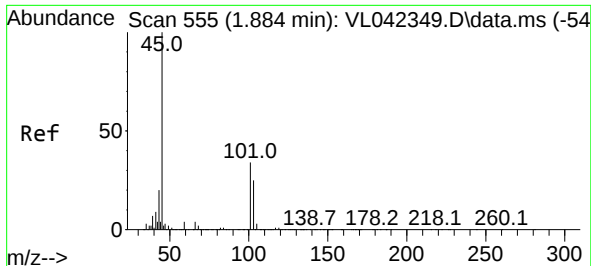
Tgt Ion: 59 Resp: 3849

Ion Ratio Lower Upper

59 100

57 32.1 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 8.801 ppbv

RT: 1.437 min Scan# 417

Delta R.T. -0.447 min

Lab File: VL042400.D

Acq: 21 Apr 2025 12:07

Instrument :

MSVOA_L

ClientSampleId :

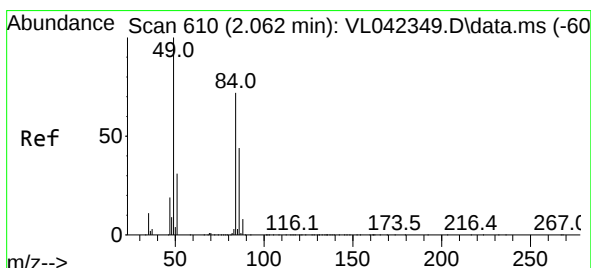
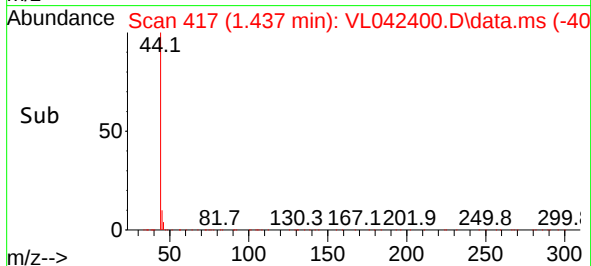
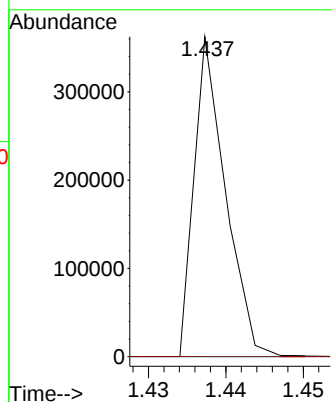
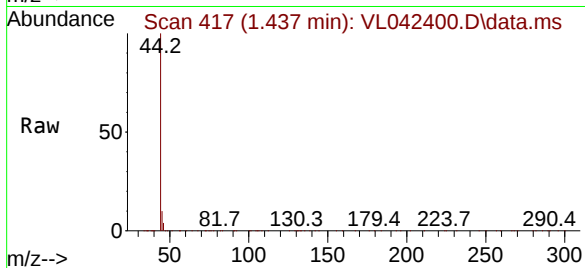
SS2R

Tgt Ion: 45 Resp: 102001

Ion Ratio Lower Upper

45 100

58 0.3 34.5 51.7#



#20

Methylene Chloride

Concen: 0.225 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042400.D

Acq: 21 Apr 2025 12:07

Tgt Ion: 84 Resp: 1839

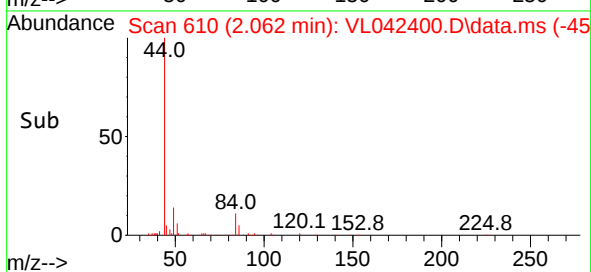
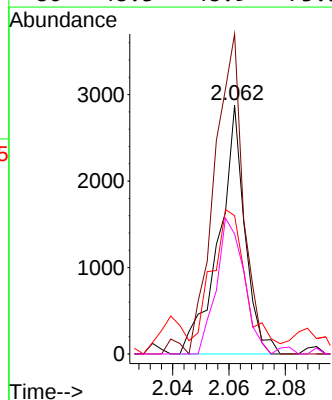
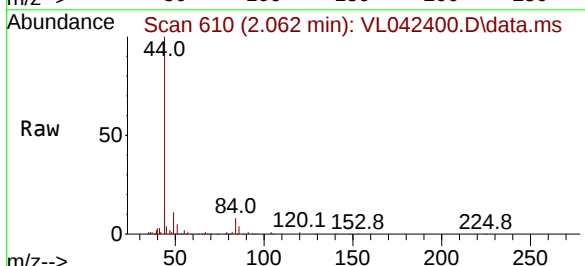
Ion Ratio Lower Upper

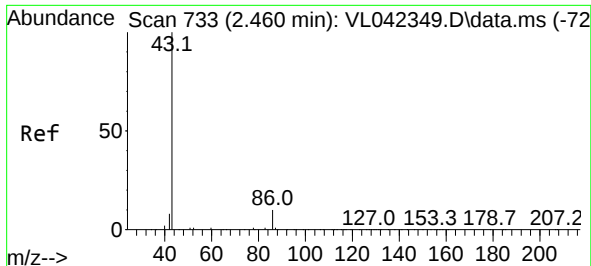
84 100

49 128.6 111.6 167.4

51 56.5 35.1 52.7#

86 48.3 48.9 73.3#

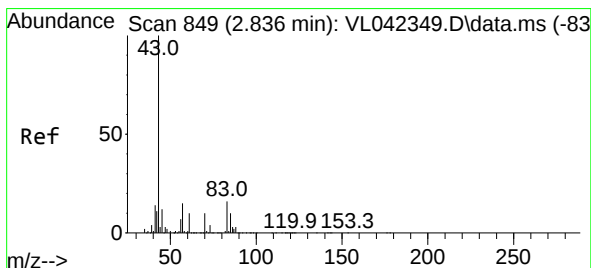
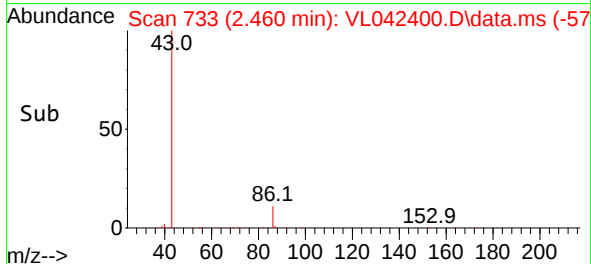
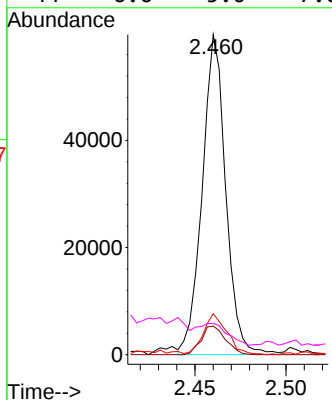
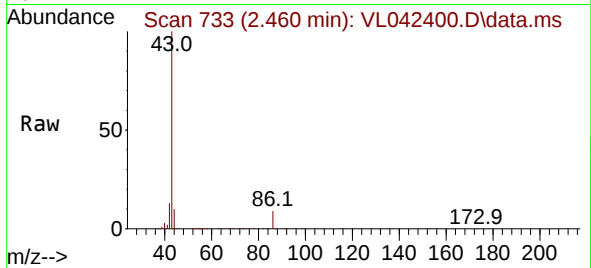




#23
 Vinyl Acetate
 Concen: 6.344 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL042400.D
 Acq: 21 Apr 2025 12:07

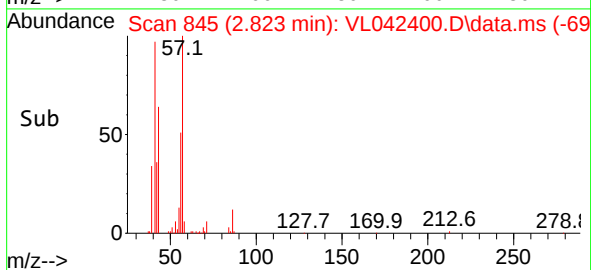
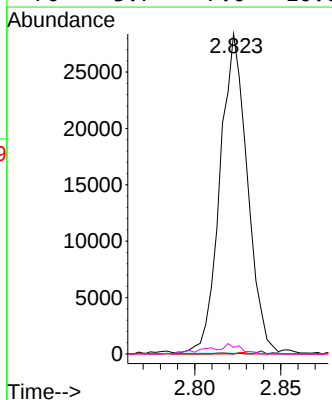
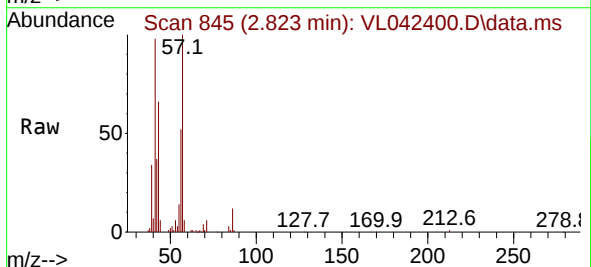
Instrument :
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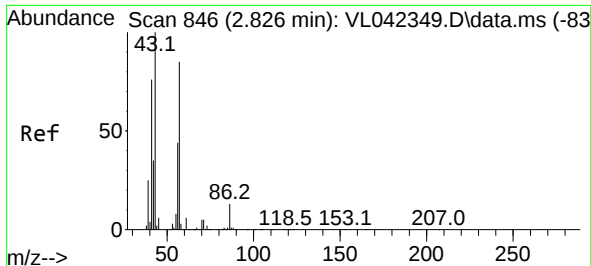
Tgt Ion: 43	Resp: 53575
Ion Ratio	Lower Upper
43 100	
86 9.0	6.5 9.7
42 12.9	7.8 11.8#
44 6.6	5.0 7.6



#25
 Ethyl Acetate
 Concen: 0.607 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042400.D
 Acq: 21 Apr 2025 12:07

Tgt	Ion: 43	Resp:	31244
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.3	12.5#
61	0.2	7.3	10.9#
70	3.7	7.0	10.6#

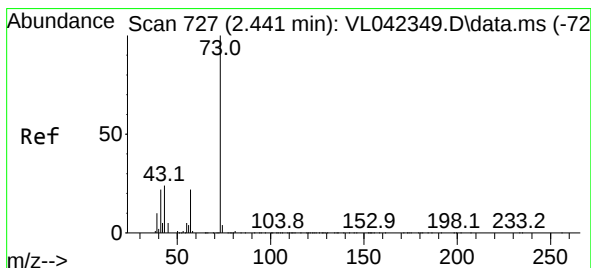
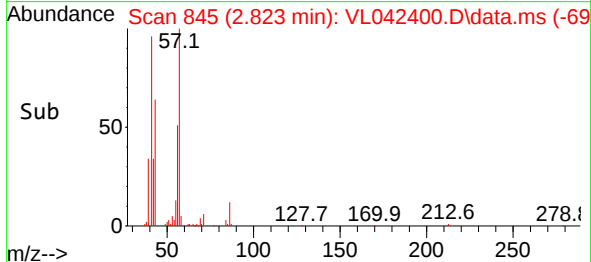
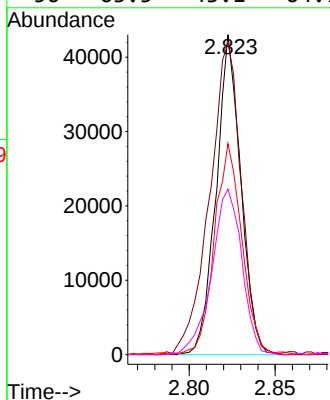
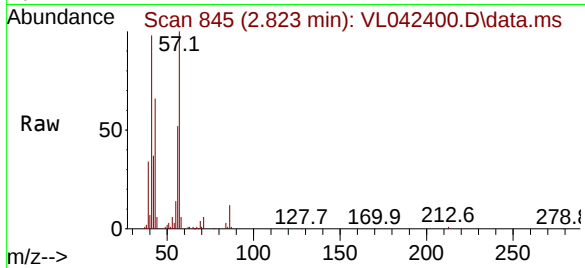




#26
Hexane
Concen: 2.060 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

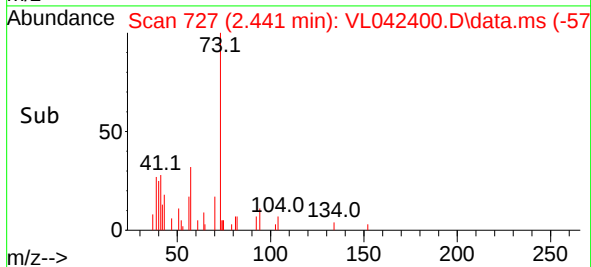
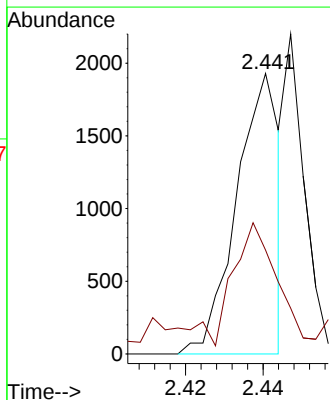
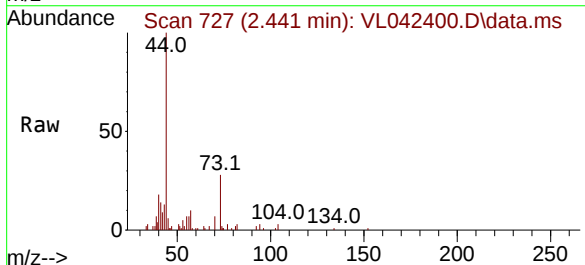
Instrument :
MSVOA_L
ClientSampleId :
SS2R

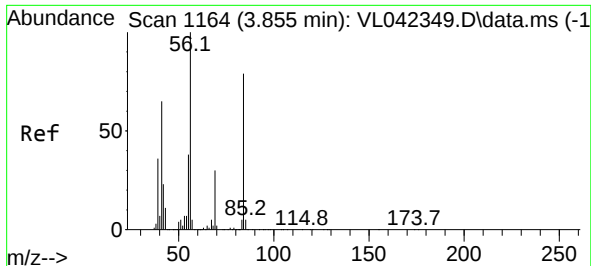
Tgt Ion: 57 Resp: 42883
Ion Ratio Lower Upper
57 100
41 126.1 77.9 116.9#
43 74.8 208.4 312.6#
56 63.5 43.1 64.7



#28
Methyl tert-Butyl Ether
Concen: 0.108 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 73 Resp: 1473
Ion Ratio Lower Upper
73 100
57 0.0 21.3 31.9#

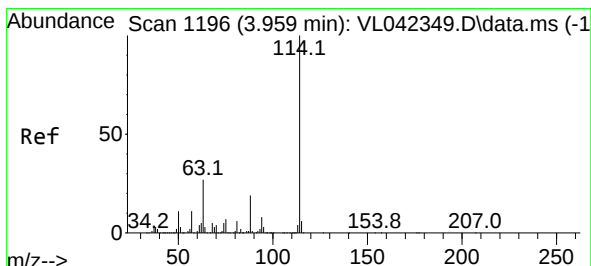
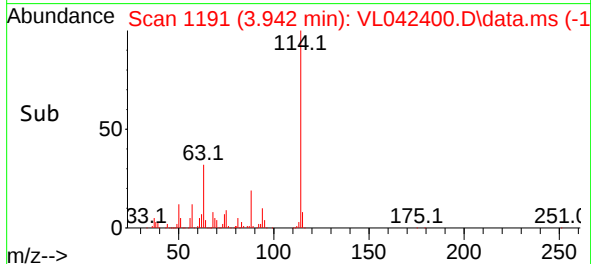
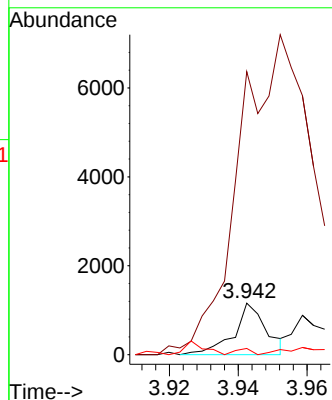
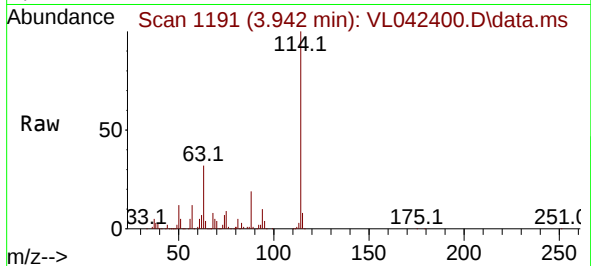




#30
Cyclohexane
Concen: 0.045 ppbv
RT: 3.942 min Scan# 1191
Delta R.T. 0.087 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

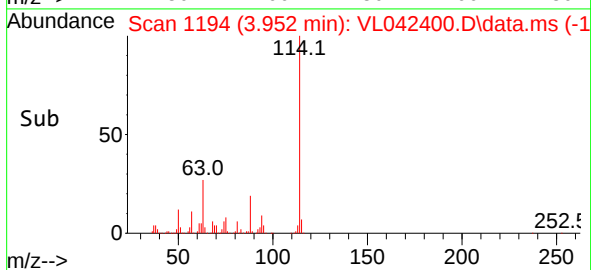
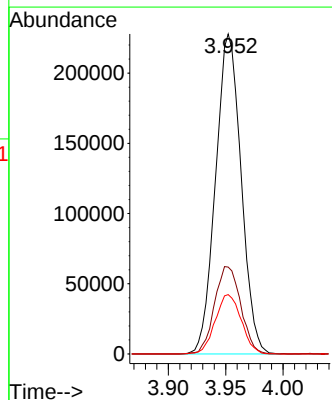
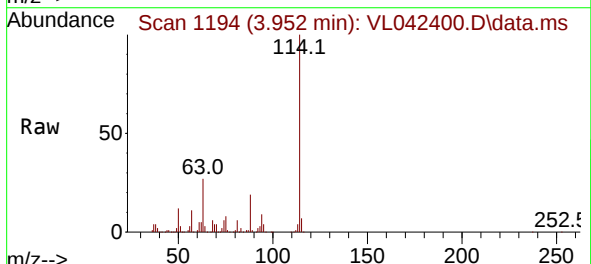
Instrument :
MSVOA_L
ClientSampleId :
SS2R

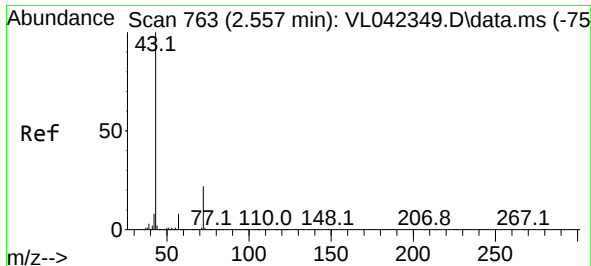
Tgt Ion: 84 Resp: 757
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 53.4 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion:114 Resp: 352813
Ion Ratio Lower Upper
114 100
63 28.1 21.8 32.6
88 18.9 15.5 23.3

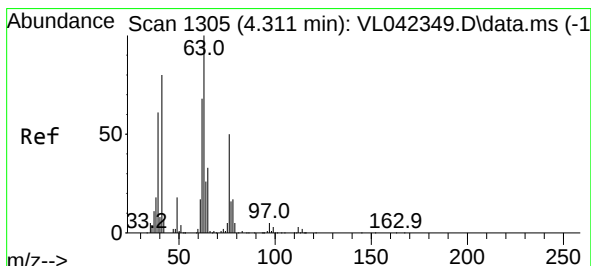
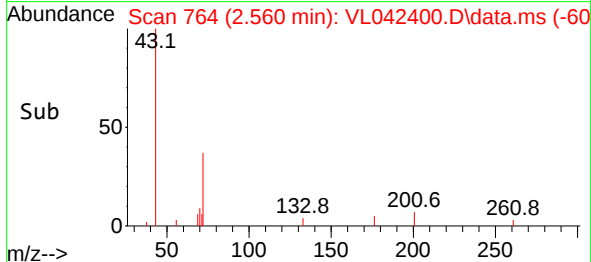
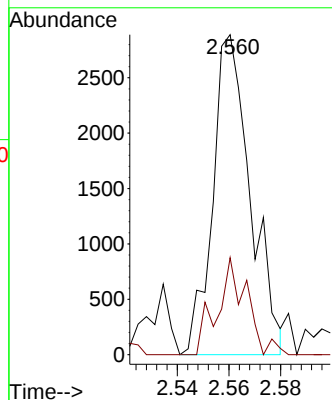
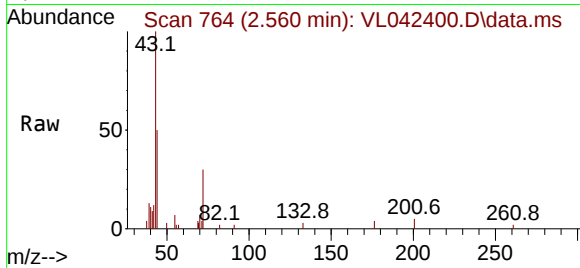




#34
2-Butanone
Concen: 0.105 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

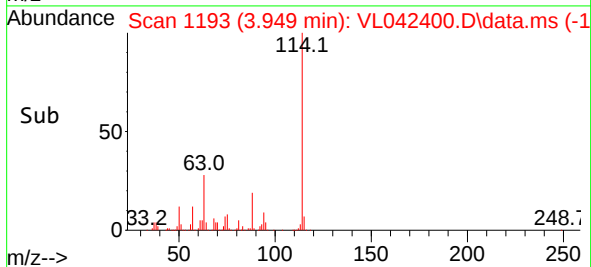
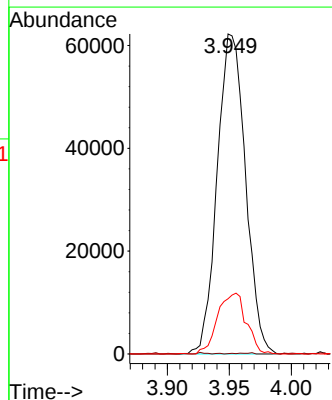
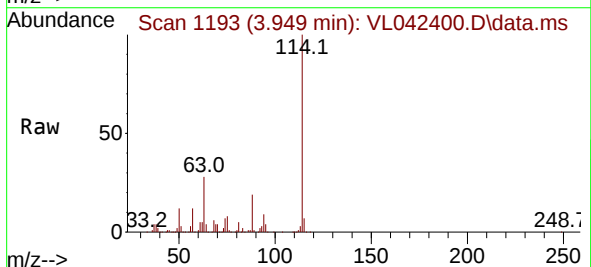
Instrument :
MSVOA_L
ClientSampleId :
SS2R

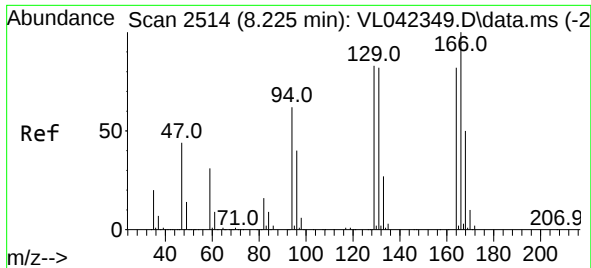
Tgt Ion: 43 Resp: 2937
Ion Ratio Lower Upper
43 100
72 23.9 18.2 27.2



#39
1,2-Dichloropropane
Concen: 6.978 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.362 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

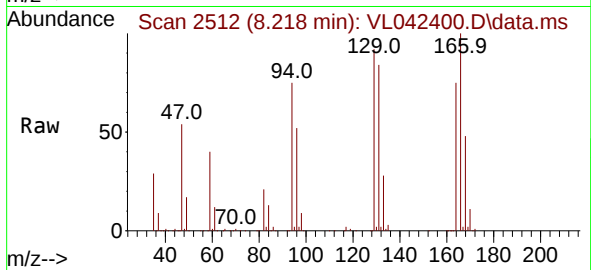
Tgt Ion: 63 Resp: 98956
Ion Ratio Lower Upper
63 100
41 0.1 64.2 96.2#
62 17.2 54.3 81.5#



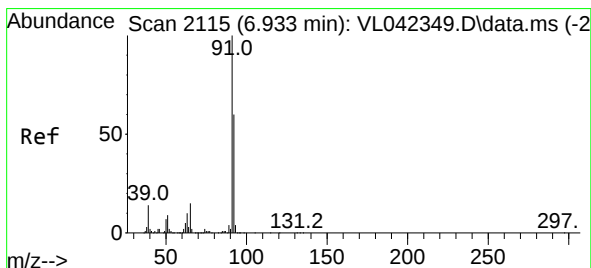
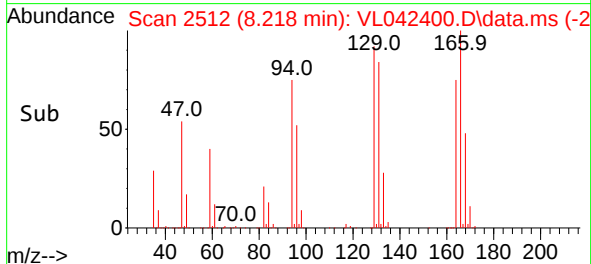
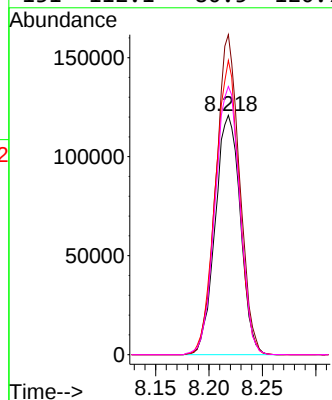


#52
Tetrachloroethene
Concen: 13.446 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. -0.006 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Instrument :
MSVOA_L
ClientSampleId :
SS2R

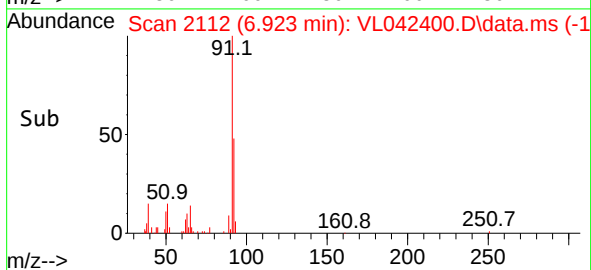
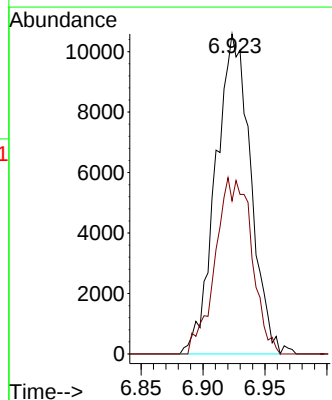
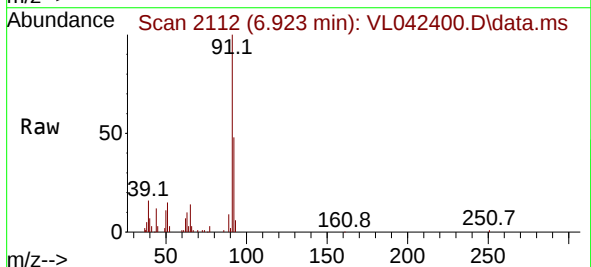


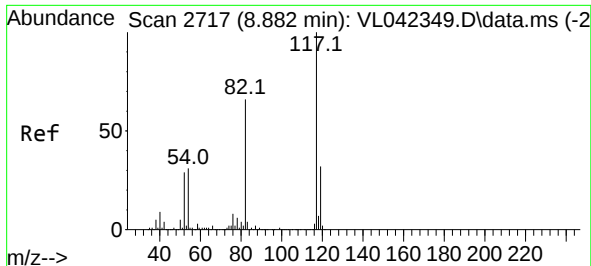
Tgt Ion:164 Resp: 197775
Ion Ratio Lower Upper
164 100
166 133.7 98.2 147.2
129 123.0 81.8 122.8#
131 112.1 80.5 120.7



#53
Toluene
Concen: 0.454 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 91 Resp: 20734
Ion Ratio Lower Upper
91 100
92 57.6 48.2 72.4

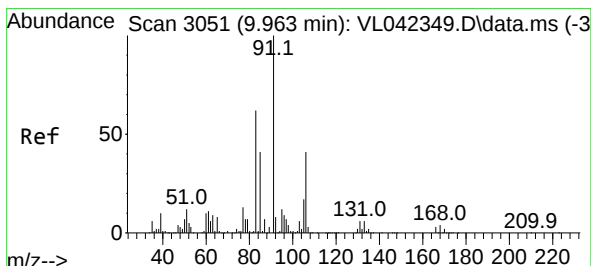
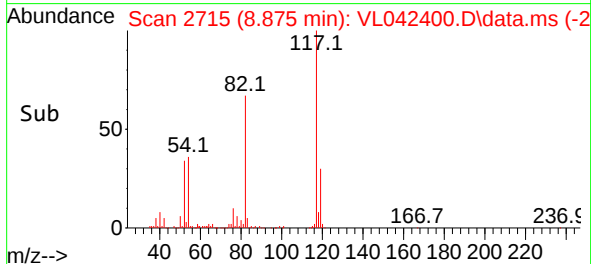
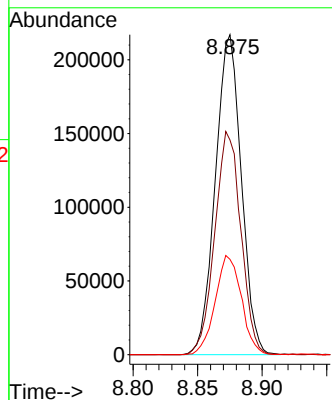
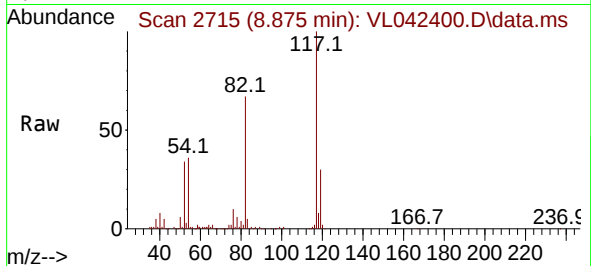




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

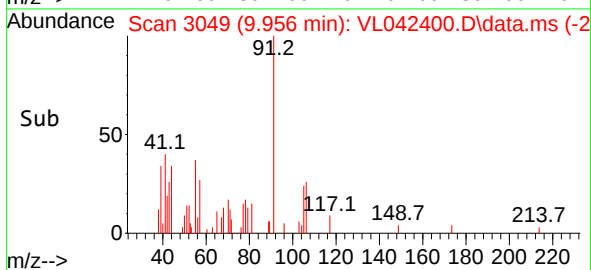
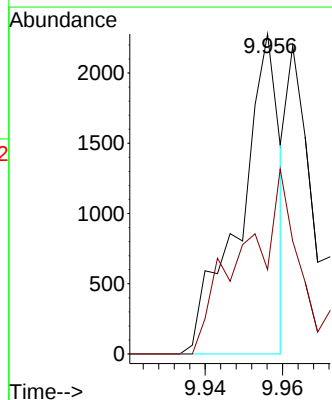
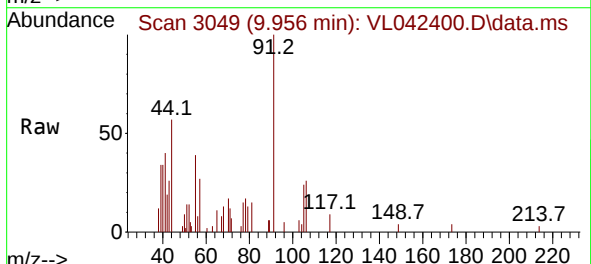
Instrument :
MSVOA_L
ClientSampleId :
SS2R

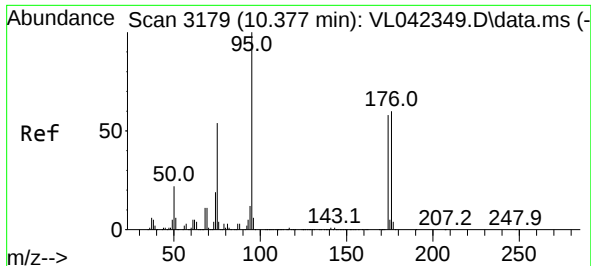
Tgt Ion:117 Resp: 303522
Ion Ratio Lower Upper
117 100
82 70.2 57.8 86.6
119 31.3 25.2 37.8



#60
o-Xylene
Concen: 0.034 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042400.D
Acq: 21 Apr 2025 12:07

Tgt Ion: 91 Resp: 1637
Ion Ratio Lower Upper
91 100
106 0.0 21.1 63.4#

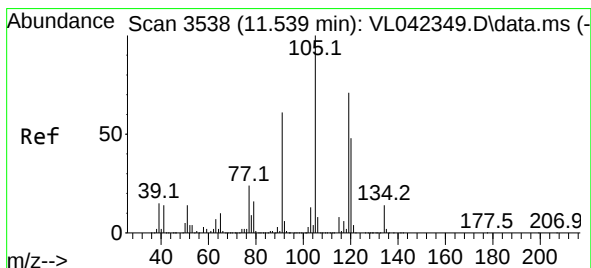
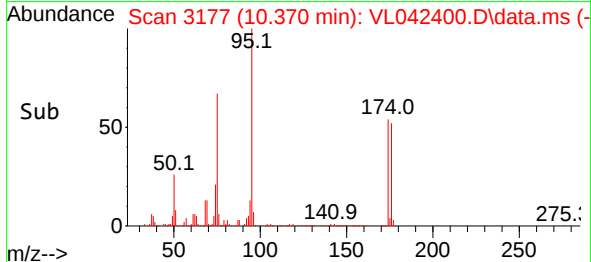
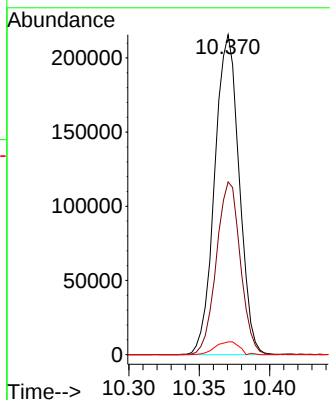
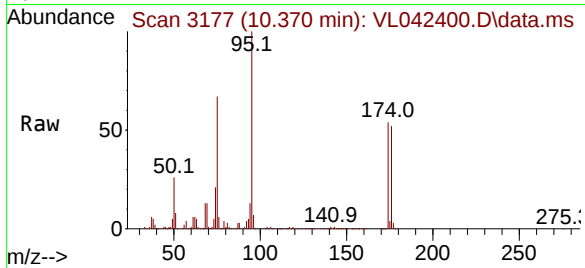




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.470 ppbv
 RT: 10.370 min Scan# 3179
 Delta R.T. -0.006 min
 Lab File: VL042400.D
 Acq: 21 Apr 2025 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SS2R

Tgt Ion: 95 Resp: 261136
 Ion Ratio Lower Upper
 95 100
 174 53.0 48.5 72.7
 175 4.0 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.122 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.010 min
 Lab File: VL042400.D
 Acq: 21 Apr 2025 12:07

Tgt Ion: 105 Resp: 7515
 Ion Ratio Lower Upper
 105 100
 120 31.3 38.1 57.1#
 91 12.9 48.8 73.2#
 77 21.0 19.0 28.4

