

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042112.D
 Acq On : 05 Mar 2025 19:37
 Operator : SY/MD
 Sample : Q1483-04 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Mar 06 01:12:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

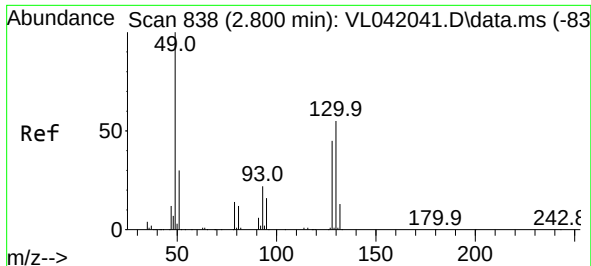
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.816	49	159533	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	4.004	114	343542	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.924	117	288034	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.413	95	204044	9.208	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.489	51	1337	0.058	ppbv	100
5) Vinyl Chloride	1.593	62	721	0.124	ppbv #	88
6) Bromomethane	1.658	94	85	0.031	ppbv #	2
9) Propene	1.496	41	902	0.095	ppbv #	76
13) Ethanol	1.441	45	137151	228.728	ppbv	90
15) Acetone	1.855	43	4852	0.344	ppbv	91
16) 1,3-Butadiene	1.635	39	290	0.044	ppbv	93
19) Isopropyl Alcohol	1.441	45	137151	16.948	ppbv #	32
20) Methylene Chloride	2.078	84	1453	0.273	ppbv #	68
22) trans-1,2-Dichloroethene	2.363	96	3442	0.493	ppbv	90
24) 1,1-Dichloroethane	2.363	63	1988	0.153	ppbv #	1
26) Hexane	2.855	57	1054	0.046	ppbv #	51
29) Chloroform	2.878	83	3452	0.113	ppbv	97
30) Cyclohexane	3.998	84	1832	0.099	ppbv #	1
31) cis-1,2-Dichloroethene	2.748	61	458160	21.229	ppbv	98
34) 2-Butanone	2.593	43	1132	0.042	ppbv #	83
38) Trichloroethene	4.600	130	255971	17.430	ppbv	93
39) 1,2-Dichloropropane	4.001	63	88449	6.480	ppbv #	24
52) Tetrachloroethene	8.299	164	4861503	394.867	ppbv	91

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

Quant Time: Mar 06 01:12:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

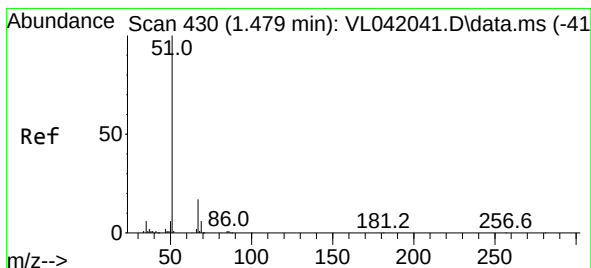
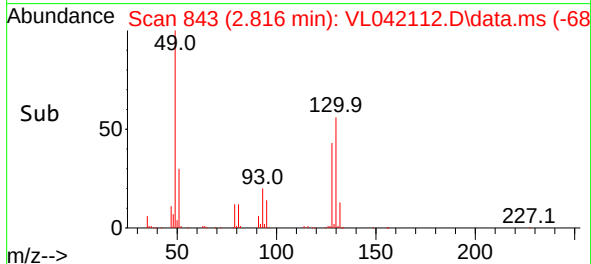
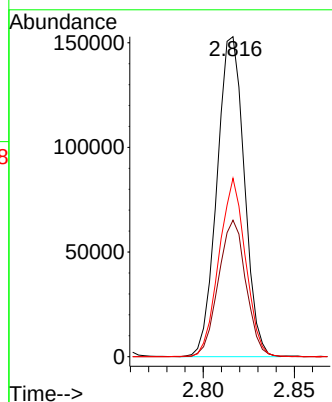
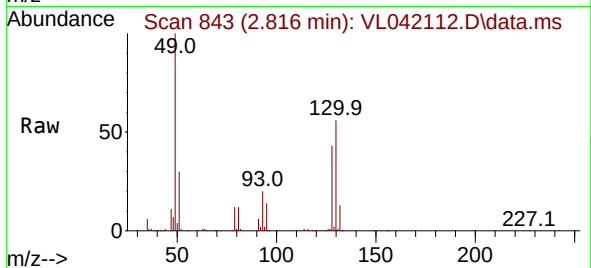




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.816 min Scan# 84
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

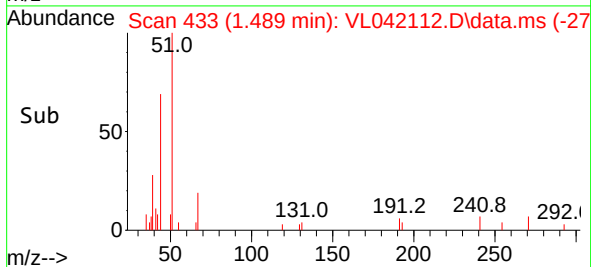
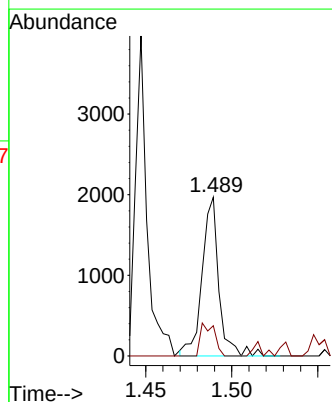
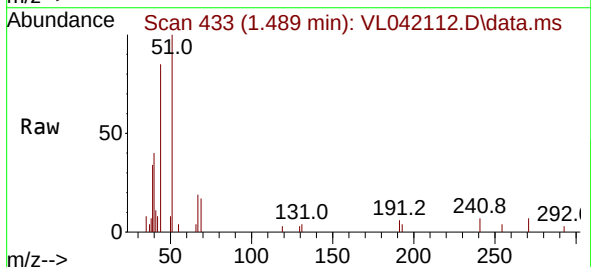
Instrument :
MSVOA_L
ClientSampleId :
SV2

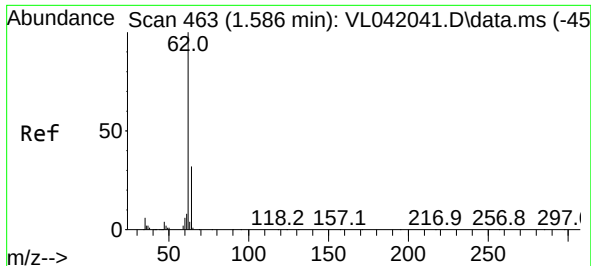
Tgt Ion: 49 Resp: 159533
Ion Ratio Lower Upper
49 100
128 42.9 21.6 64.8
130 54.2 27.8 83.4



#3
Chlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.010 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 51 Resp: 1337
Ion Ratio Lower Upper
51 100
67 17.2 13.7 20.5

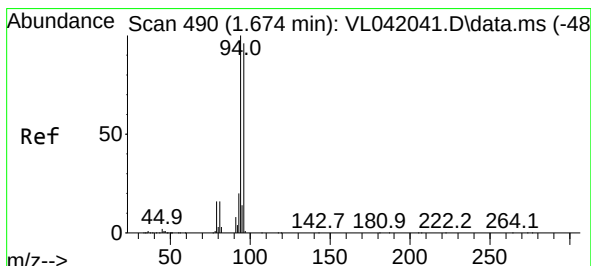
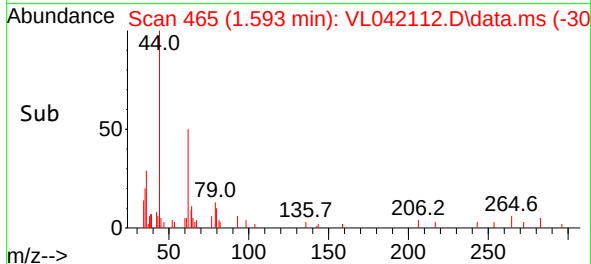
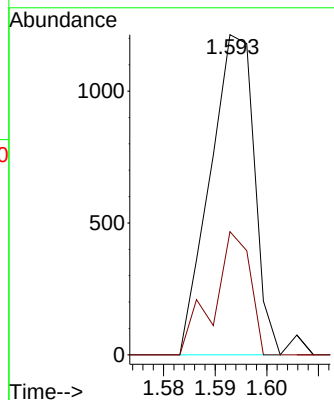
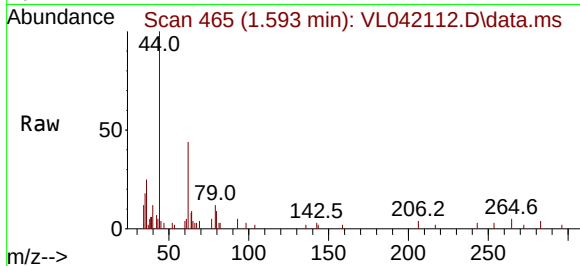




#5
 Vinyl Chloride
 Concen: 0.124 ppbv
 RT: 1.593 min Scan# 465
 Delta R.T. 0.007 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

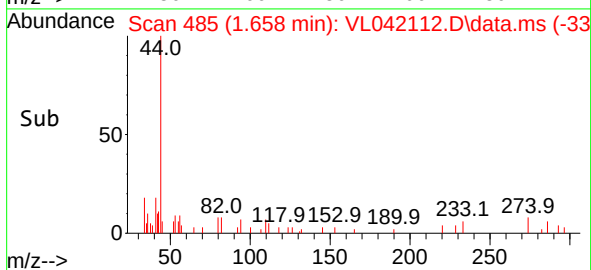
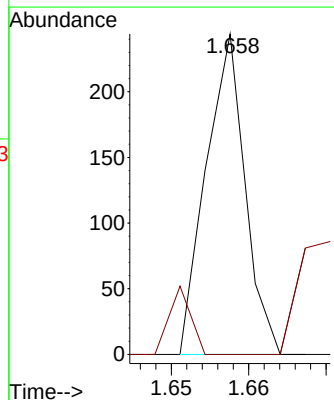
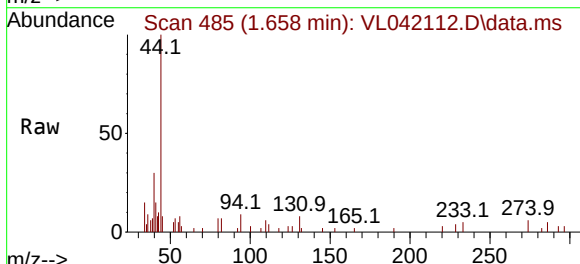
Instrument :
 MSVOA_1
 ClientSampleId :
 SV2

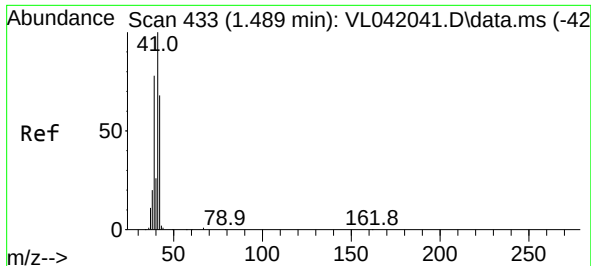
Tgt Ion: 62 Resp: 721
 Ion Ratio Lower Upper
 62 100
 64 38.5 25.3 37.9#



#6
 Bromomethane
 Concen: 0.031 ppbv
 RT: 1.658 min Scan# 485
 Delta R.T. -0.016 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

Tgt Ion: 94 Resp: 85
 Ion Ratio Lower Upper
 94 100
 96 0.0 76.5 114.7#





#9

Propene

Concen: 0.095 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042112.D

Acq: 05 Mar 2025 19:37

Instrument :

MSVOA_L

ClientSampleId :

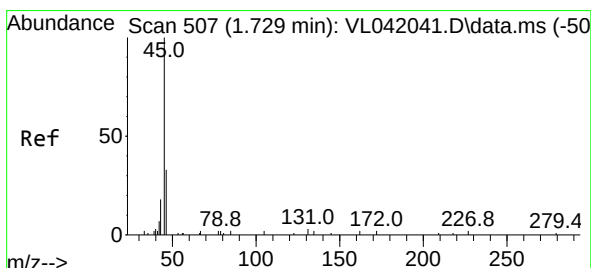
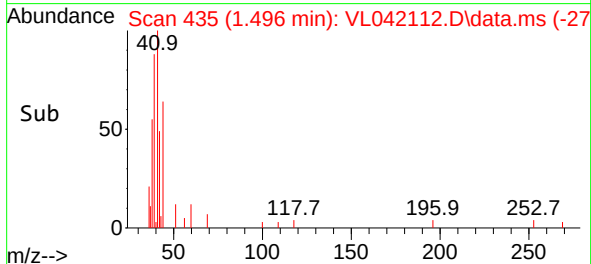
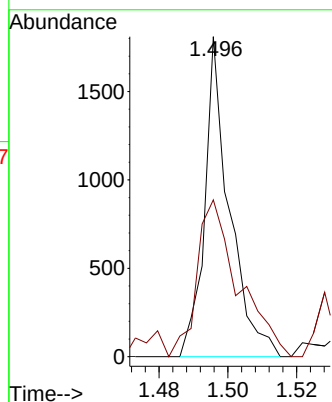
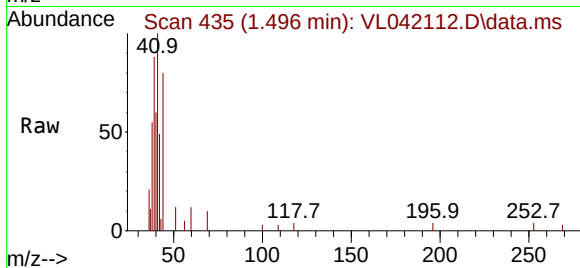
SV2

Tgt Ion: 41 Resp: 902

Ion Ratio Lower Upper

41 100

42 89.6 55.8 83.6#



#13

Ethanol

Concen: 228.728 ppbv

RT: 1.441 min Scan# 418

Delta R.T. -0.288 min

Lab File: VL042112.D

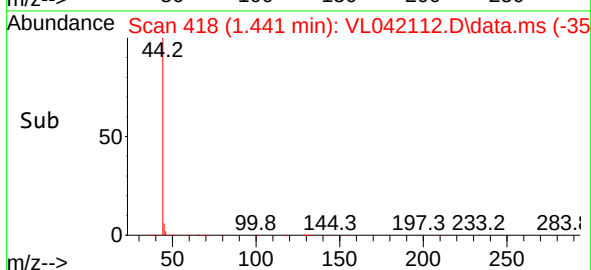
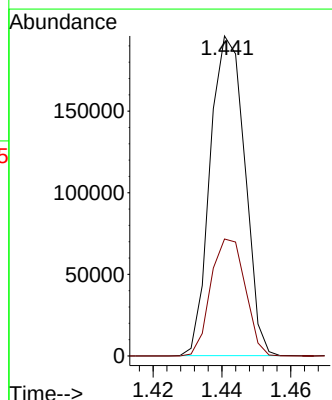
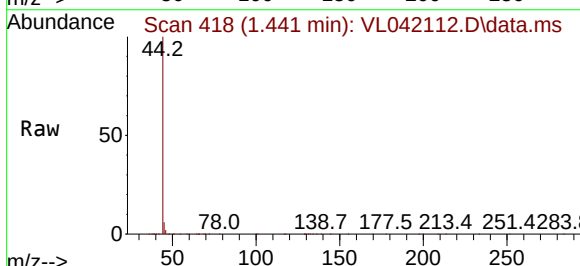
Acq: 05 Mar 2025 19:37

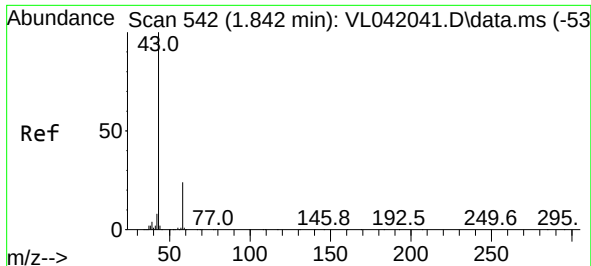
Tgt Ion: 45 Resp: 137151

Ion Ratio Lower Upper

45 100

46 36.5 17.1 68.3





#15

Acetone

Concen: 0.344 ppbv

RT: 1.855 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042112.D

Acq: 05 Mar 2025 19:37

Instrument :

MSVOA_L

ClientSampleId :

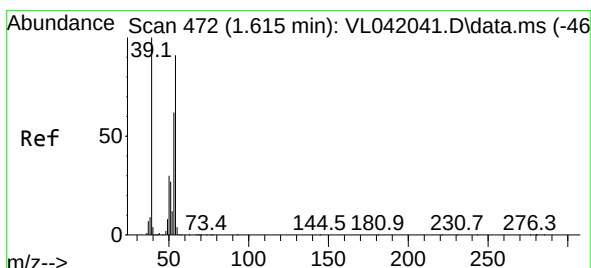
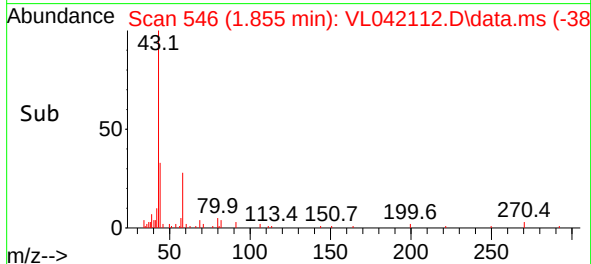
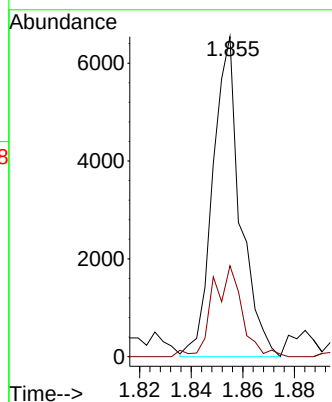
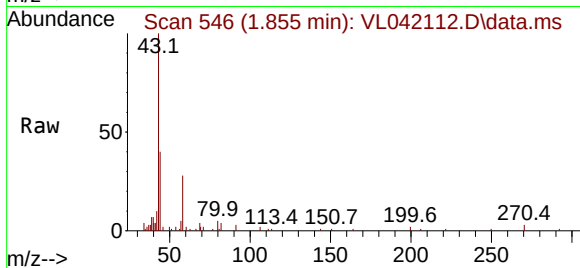
SV2

Tgt Ion: 43 Resp: 4852

Ion Ratio Lower Upper

43 100

58 30.4 20.7 31.1



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 1.635 min Scan# 478

Delta R.T. 0.020 min

Lab File: VL042112.D

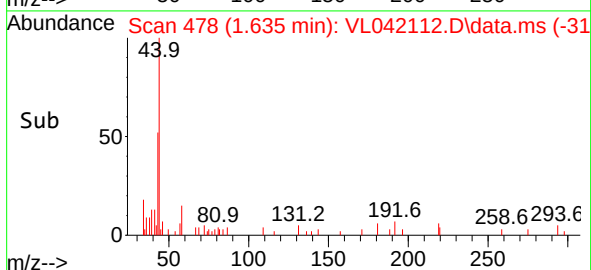
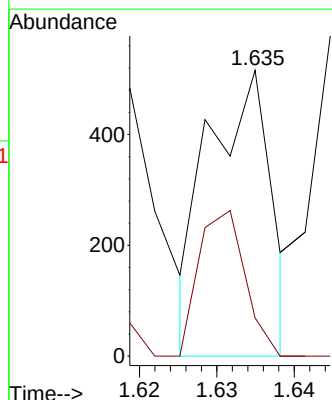
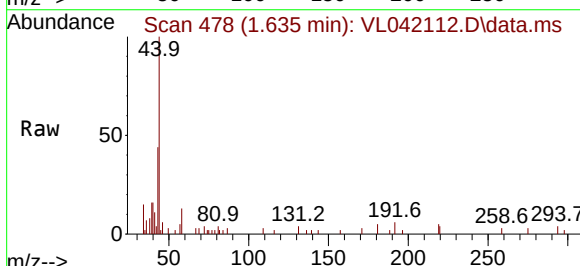
Acq: 05 Mar 2025 19:37

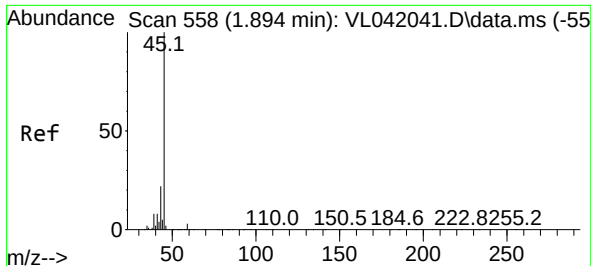
Tgt Ion: 39 Resp: 290

Ion Ratio Lower Upper

39 100

54 68.3 59.6 89.4

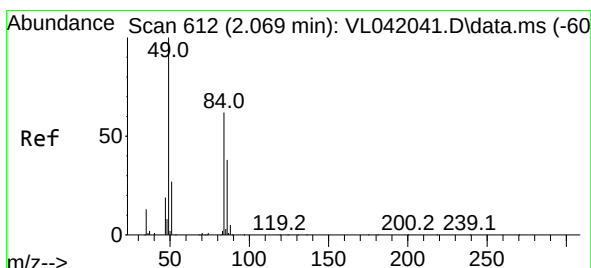
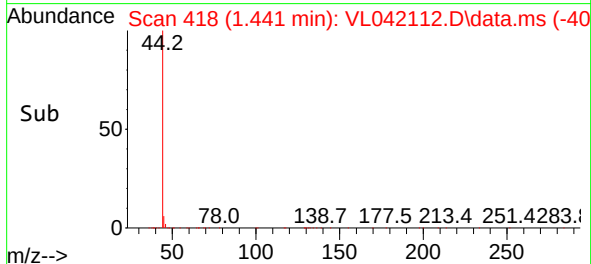
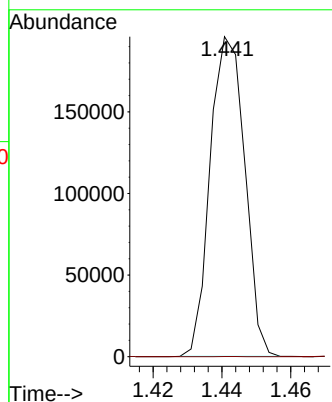
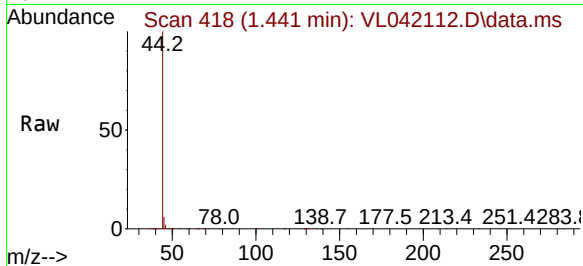




#19
Isopropyl Alcohol
Concen: 16.948 ppbv
RT: 1.441 min Scan# 418
Delta R.T. -0.453 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

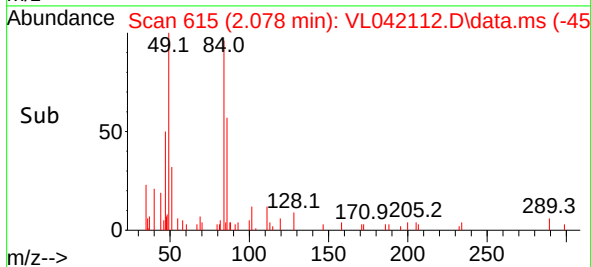
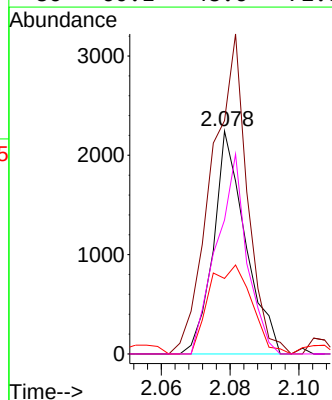
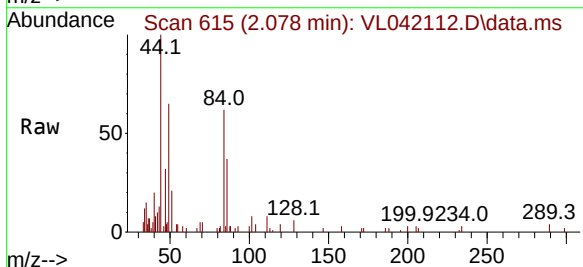
Instrument :
MSVOA_L
ClientSampleId :
SV2

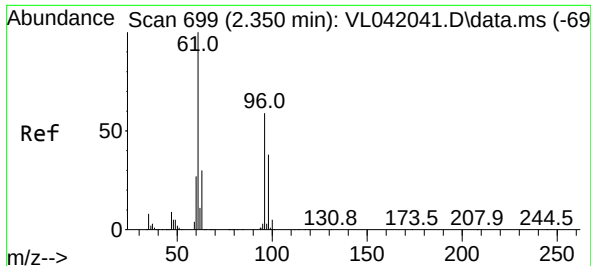
Tgt Ion: 45 Resp: 137151
Ion Ratio Lower Upper
45 100
58 0.1 35.3 52.9#



#20
Methylene Chloride
Concen: 0.273 ppbv
RT: 2.078 min Scan# 615
Delta R.T. 0.010 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 84 Resp: 1453
Ion Ratio Lower Upper
84 100
49 99.9 130.0 195.0#
51 33.9 37.4 56.0#
86 60.1 48.6 72.8

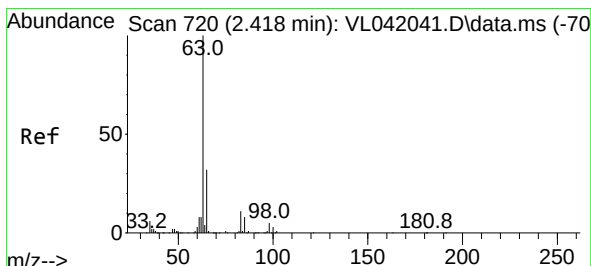
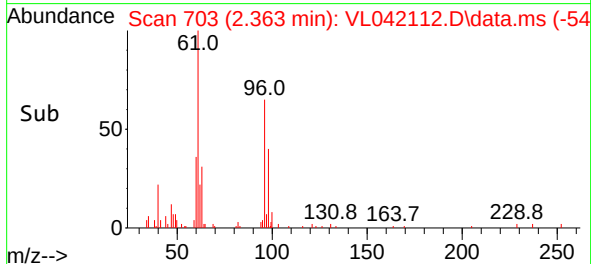
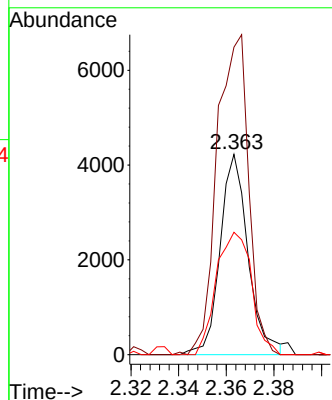
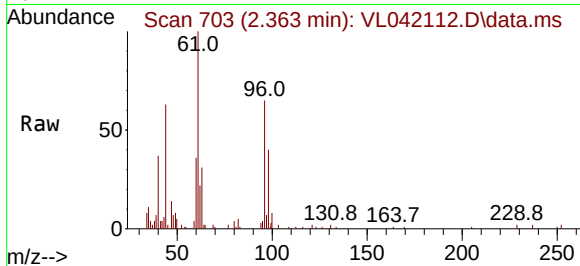




#22
trans-1,2-Dichloroethene
Concen: 0.493 ppbv
RT: 2.363 min Scan# 703
Delta R.T. 0.013 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

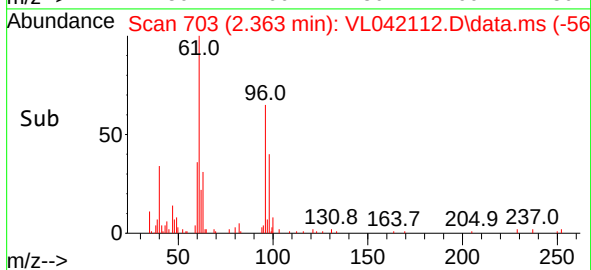
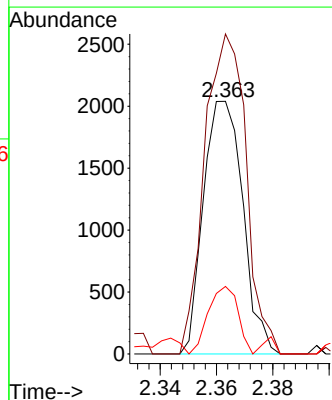
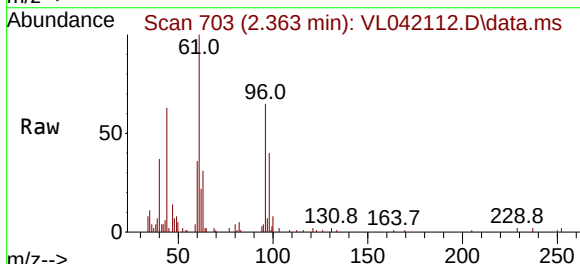
Instrument :
MSVOA_L
ClientSampleId :
SV2

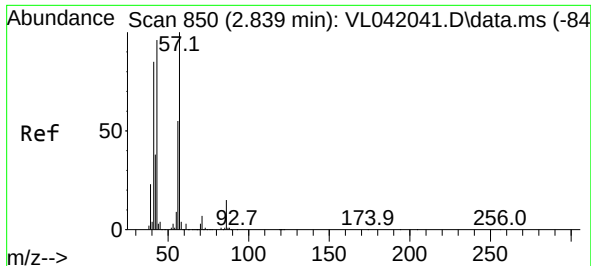
Tgt Ion: 96 Resp: 3442
Ion Ratio Lower Upper
96 100
61 153.5 136.6 205.0
98 61.1 51.8 77.6



#24
1,1-Dichloroethane
Concen: 0.153 ppbv
RT: 2.363 min Scan# 703
Delta R.T. -0.055 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 63 Resp: 1988
Ion Ratio Lower Upper
63 100
98 126.7 2.4 7.2#
100 26.7 1.7 5.0#

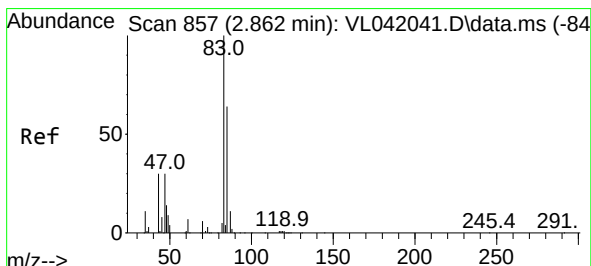
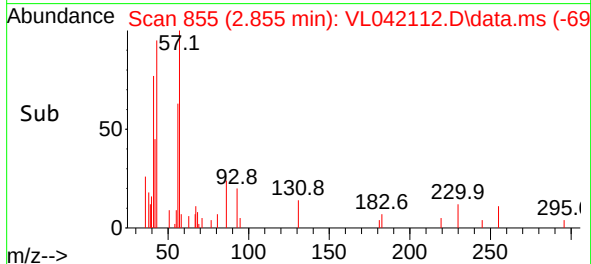
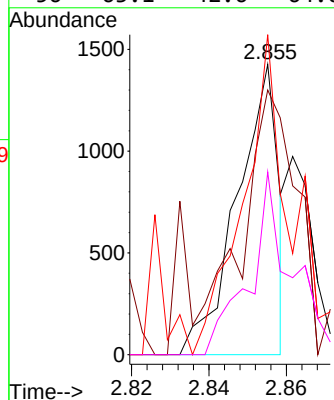
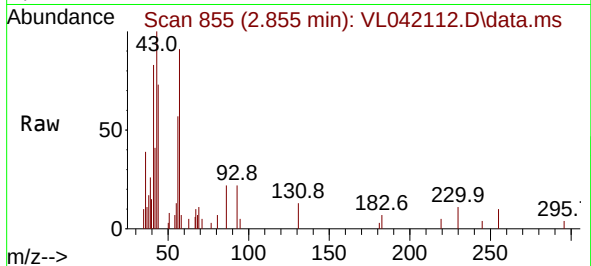




#26
Hexane
Concen: 0.046 ppbv
RT: 2.855 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

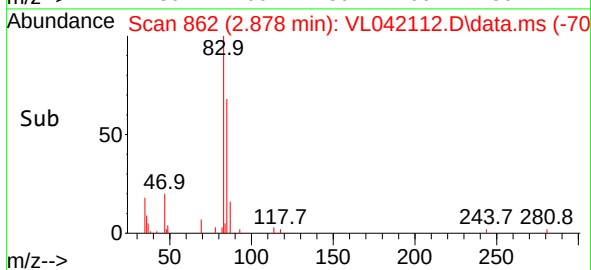
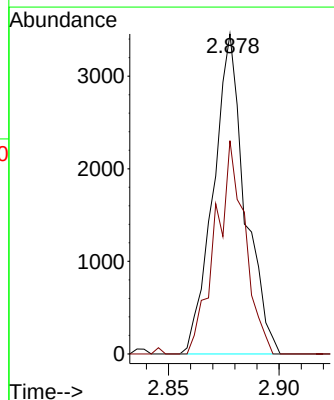
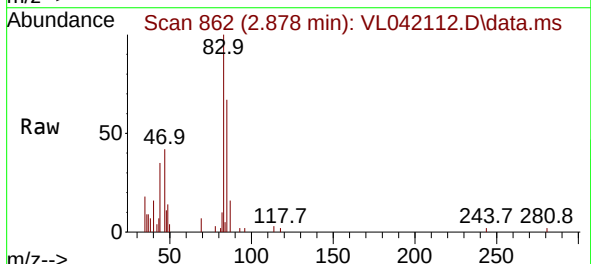
Instrument :
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ClientSampleId :
SV2

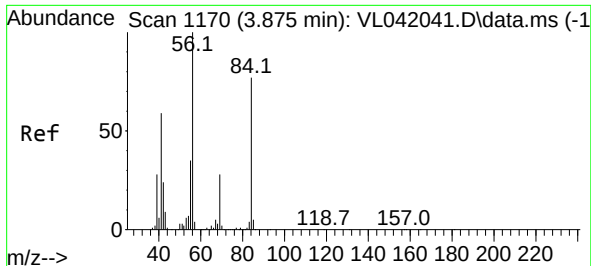
Tgt Ion: 57	Resp: 1054
Ion Ratio	Lower Upper
57 100	
41 144.3	70.6 106.0#
43 158.0	199.4 299.0#
56 63.1	42.6 64.0



#29
Chloroform
Concen: 0.113 ppbv
RT: 2.878 min Scan# 862
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 83	Resp: 3452
Ion Ratio	Lower Upper
83 100	
85 66.7	51.2 76.8

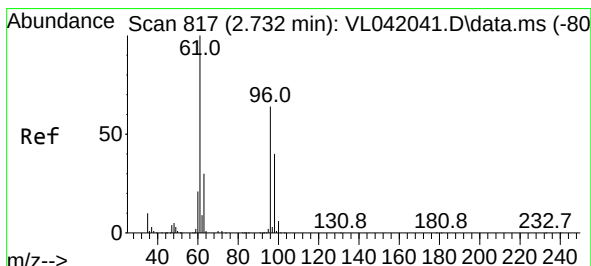
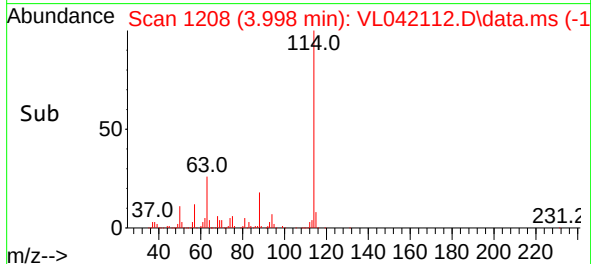
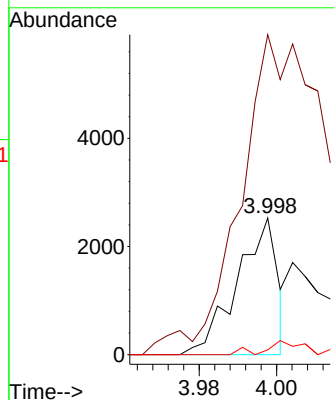
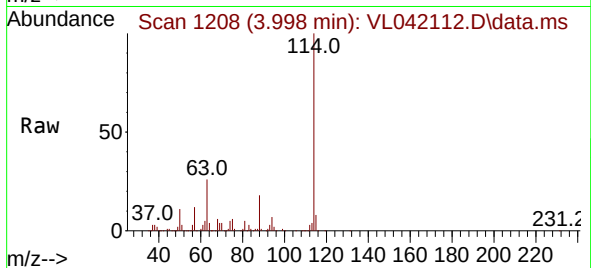




#30
Cyclohexane
Concen: 0.099 ppbv
RT: 3.998 min Scan# 1170
Delta R.T. 0.123 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

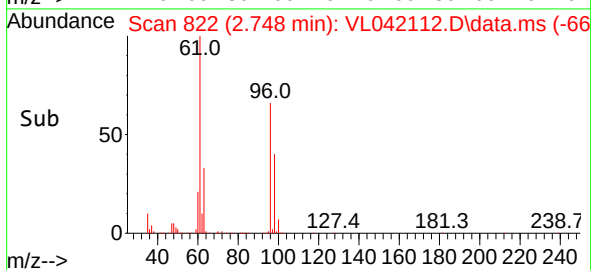
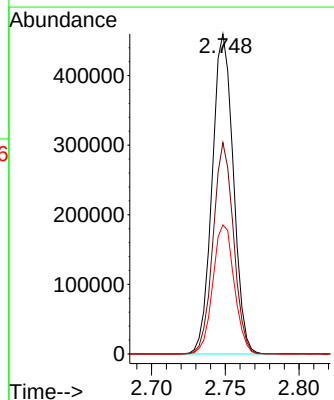
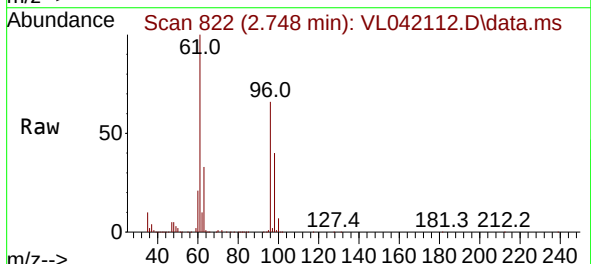
Instrument :
MSVOA_L
ClientSampleId :
SV2

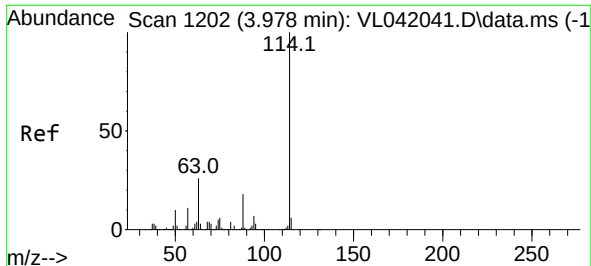
Tgt Ion: 84 Resp: 1832
Ion Ratio Lower Upper
84 100
56 509.0 101.5 152.3#
41 3.7 62.6 93.8#



#31
cis-1,2-Dichloroethene
Concen: 21.229 ppbv
RT: 2.748 min Scan# 822
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 61 Resp: 458160
Ion Ratio Lower Upper
61 100
96 66.1 51.5 77.3
98 40.4 32.0 48.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 4.004 min Scan# 11

Delta R.T. 0.026 min

Lab File: VL042112.D

Acq: 05 Mar 2025 19:37

Instrument :

MSVOA_L

ClientSampleId :

SV2

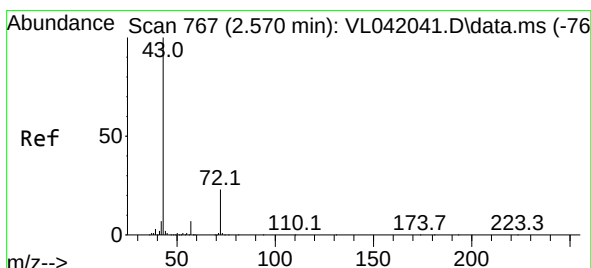
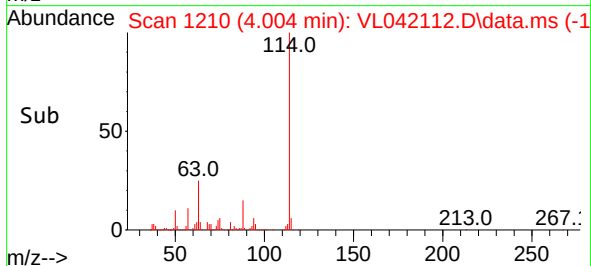
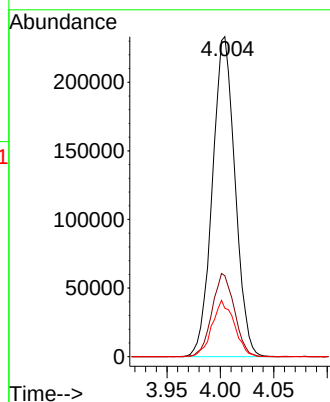
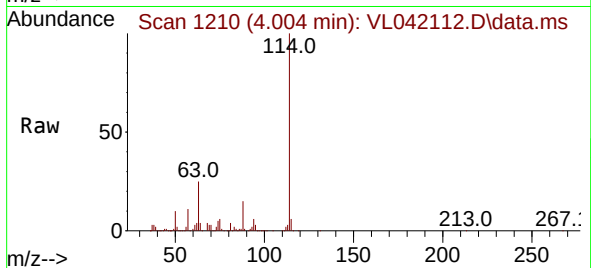
Tgt Ion:114 Resp: 343542

Ion Ratio Lower Upper

114 100

63 25.8 20.1 30.1

88 17.3 14.3 21.5



#34

2-Butanone

Concen: 0.042 ppbv

RT: 2.593 min Scan# 774

Delta R.T. 0.023 min

Lab File: VL042112.D

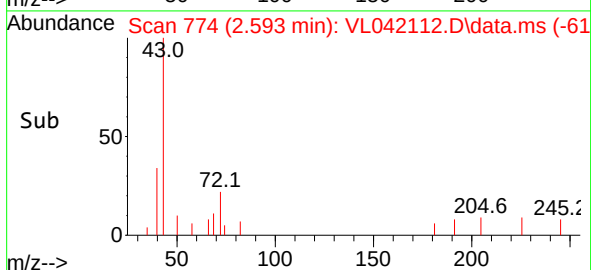
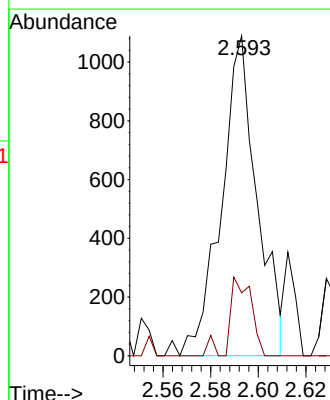
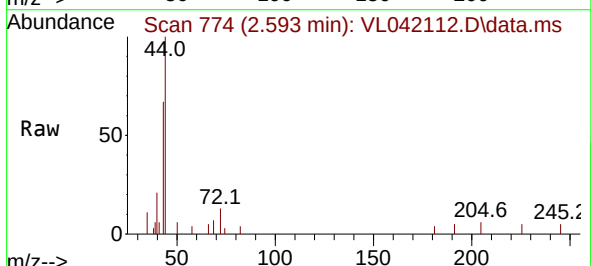
Acq: 05 Mar 2025 19:37

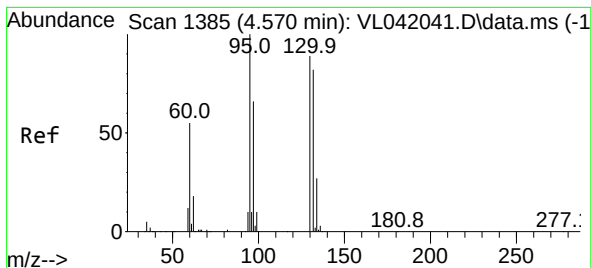
Tgt Ion: 43 Resp: 1132

Ion Ratio Lower Upper

43 100

72 14.8 18.5 27.7#





#38

Trichloroethene

Concen: 17.430 ppbv

RT: 4.600 min Scan# 11

Delta R.T. 0.029 min

Lab File: VL042112.D

Acq: 05 Mar 2025 19:37

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:130 Resp: 255971

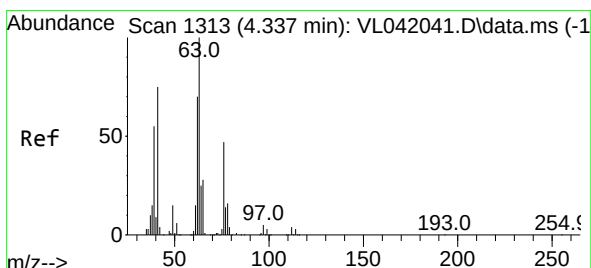
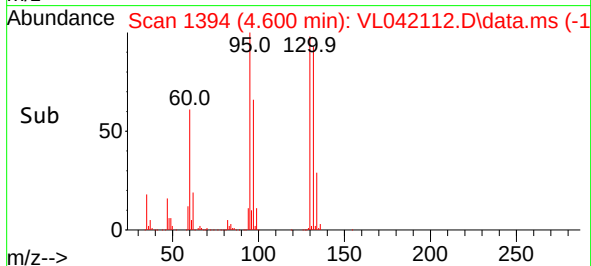
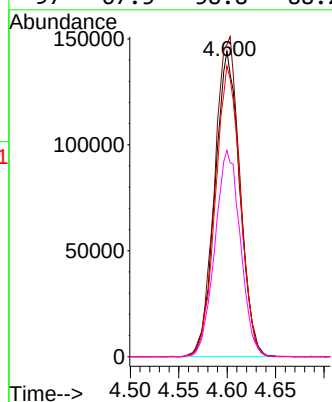
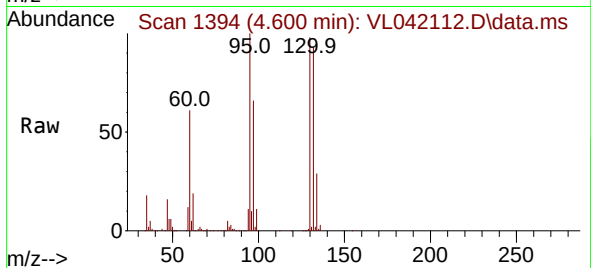
Ion Ratio Lower Upper

130 100

95 102.2 89.5 134.3

132 95.1 73.8 110.6

97 67.5 58.8 88.2



#39

1,2-Dichloropropane

Concen: 6.480 ppbv

RT: 4.001 min Scan# 1209

Delta R.T. -0.337 min

Lab File: VL042112.D

Acq: 05 Mar 2025 19:37

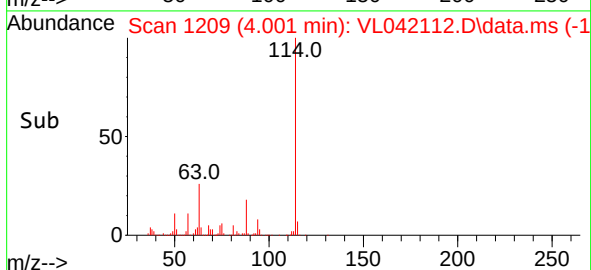
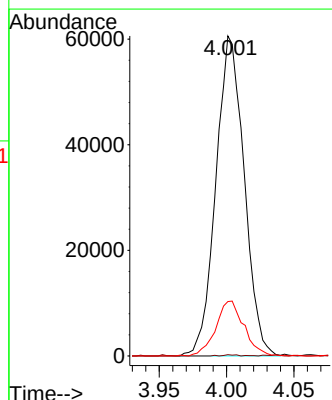
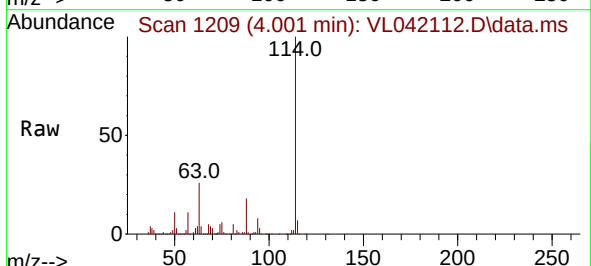
Tgt Ion: 63 Resp: 88449

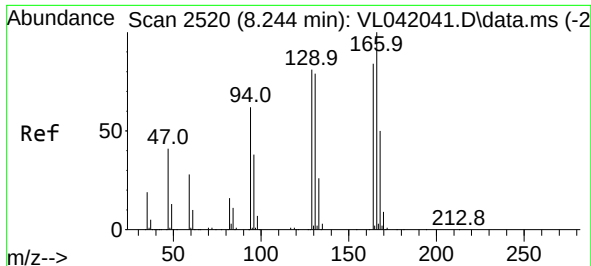
Ion Ratio Lower Upper

63 100

41 0.6 60.1 90.1#

62 16.9 55.8 83.8#

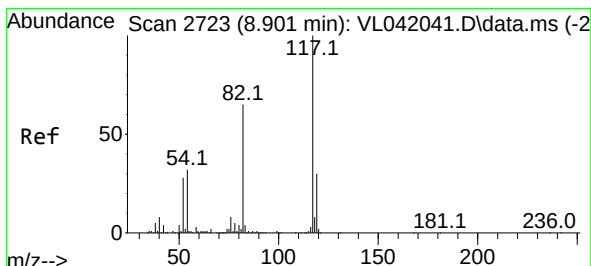
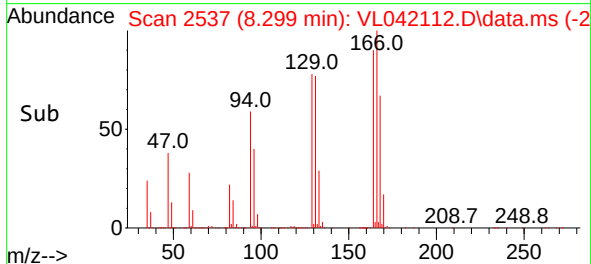
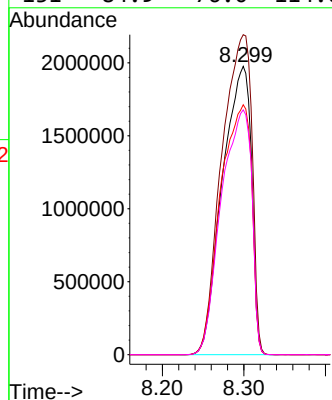
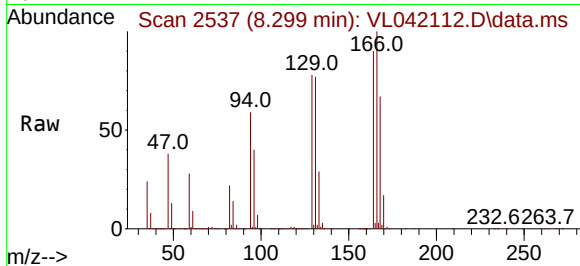




#52
Tetrachloroethene
Concen: 394.867 ppbv
RT: 8.299 min Scan# 21
Delta R.T. 0.055 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

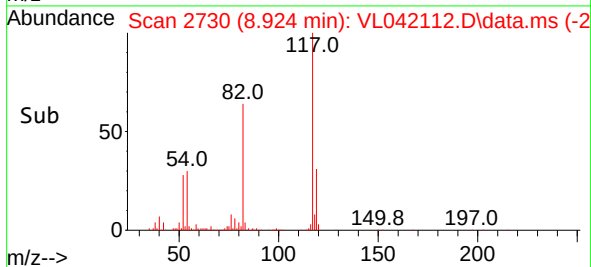
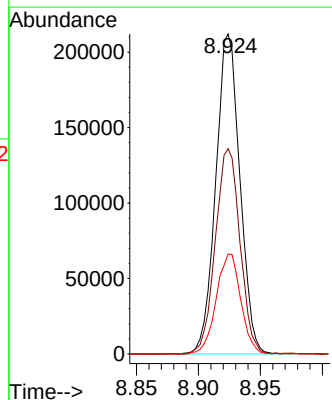
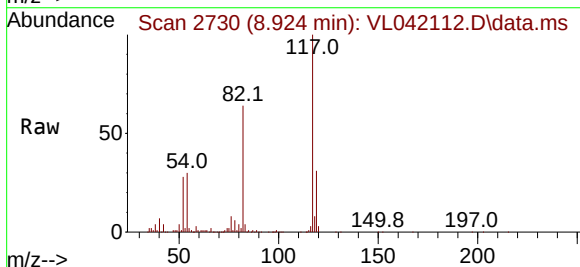
Instrument :
MSVOA_L
ClientSampleId :
SV2

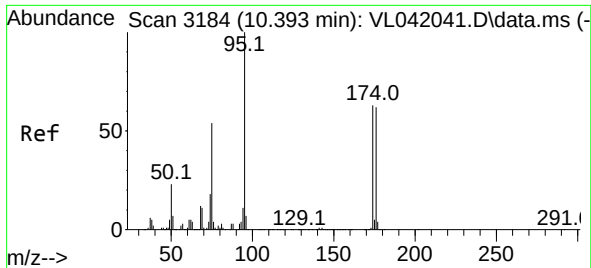
Tgt Ion:164 Resp: 4861503
Ion Ratio Lower Upper
164 100
166 111.0 95.7 143.5
129 86.7 77.1 115.7
131 84.9 76.0 114.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.023 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion:117 Resp: 288034
Ion Ratio Lower Upper
117 100
82 65.5 55.0 82.6
119 32.0 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.208 ppbv
 RT: 10.413 min Scan# 31
 Delta R.T. 0.020 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 95 Resp: 204044
 Ion Ratio Lower Upper
 95 100
 174 62.3 51.8 77.6
 175 4.5 3.9 5.9

