

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042240.D
 Acq On : 07 Apr 2025 19:48
 Operator : SY/MD
 Sample : Q1725-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

Quant Time: Apr 08 01:34:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

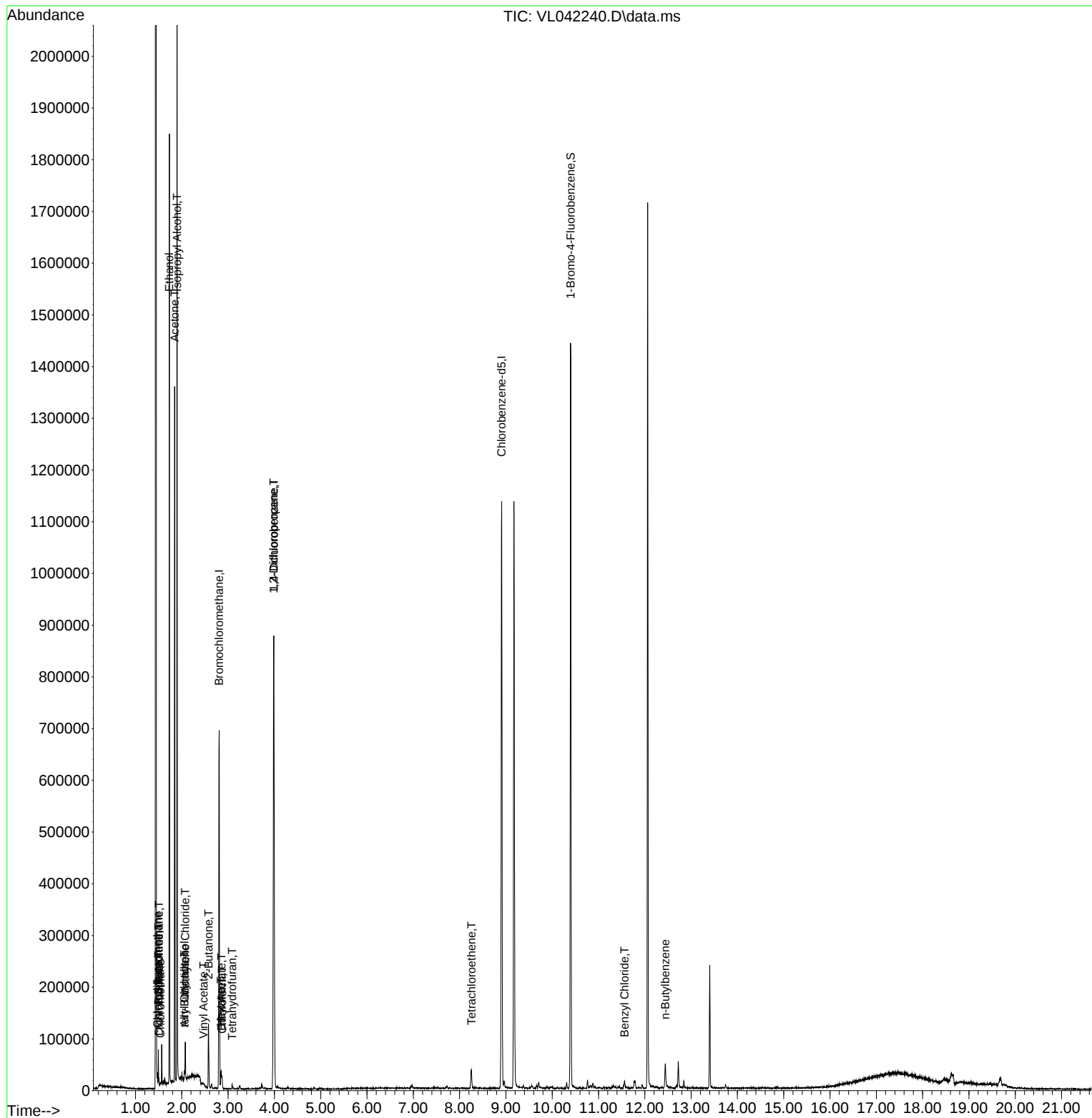
Internal Standards						
1) Bromochloromethane	2.806	49	191137	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	500724	10.000	ppbv	0.04
55) Chlorobenzene-d5	8.907	117	434892	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	351813	9.851	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	1682	0.060	ppbv #	85
3) Chlorodifluoromethane	1.473	51	6177	0.214	ppbv #	64
4) Chloromethane	1.541	50	1103	0.096	ppbv #	65
9) Propene	1.496	41	5601	0.424	ppbv	87
13) Ethanol	1.732	45	636905	509.855	ppbv	83
15) Acetone	1.845	43	552376	20.664	ppbv	95
16) 1,3-Butadiene	1.496	39	7446	0.570	ppbv #	14
17) tert-Butyl alcohol	2.059	59	5110	0.153	ppbv #	80
19) Isopropyl Alcohol	1.897	45	1082467	71.770	ppbv #	32
20) Methylene Chloride	2.075	84	10459	1.051	ppbv	93
21) Allyl Chloride	2.059	41	1575	0.084	ppbv #	28
23) Vinyl Acetate	2.470	43	1021	0.088	ppbv #	46
25) Ethyl Acetate	2.855	43	11169	0.161	ppbv #	95
26) Hexane	2.845	57	6613	0.247	ppbv #	65
29) Chloroform	2.871	83	6748	0.172	ppbv	98
34) 2-Butanone	2.577	43	79642	2.193	ppbv	97
39) 1,2-Dichloropropane	3.985	63	132100	7.307	ppbv #	23
41) Tetrahydrofuran	3.088	42	1574	0.075	ppbv #	66
52) Tetrachloroethene	8.254	164	5753	0.292	ppbv	97
66) Benzyl Chloride	11.565	91	800	0.088	ppbv #	76
70) n-Butylbenzene	12.442	91	3157	0.030	ppbv #	38

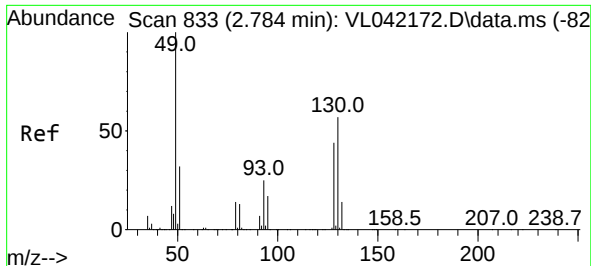
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
Data File : VL042240.D
Acq On : 07 Apr 2025 19:48
Operator : SY/MD
Sample : Q1725-06DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

Quant Time: Apr 08 01:34:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.806 min Scan# 84

Delta R.T. 0.022 min

Lab File: VL042240.D

Acq: 07 Apr 2025 19:48

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025DL

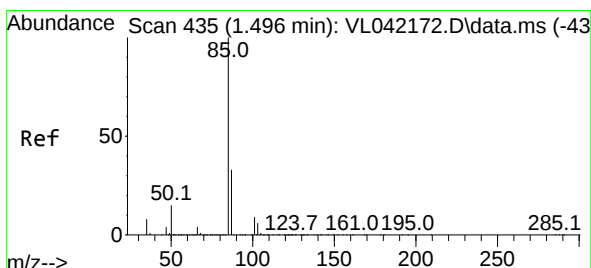
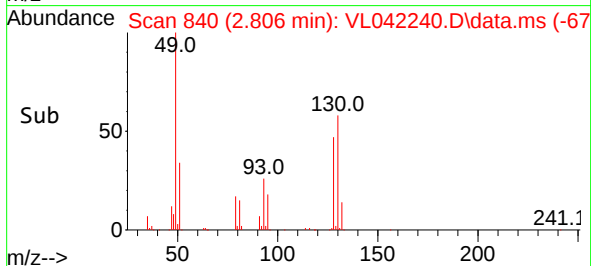
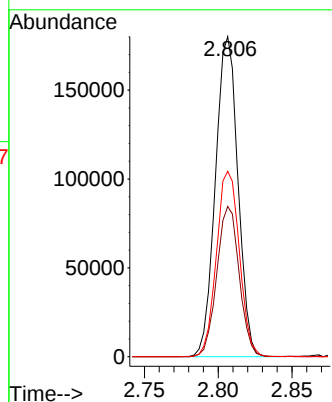
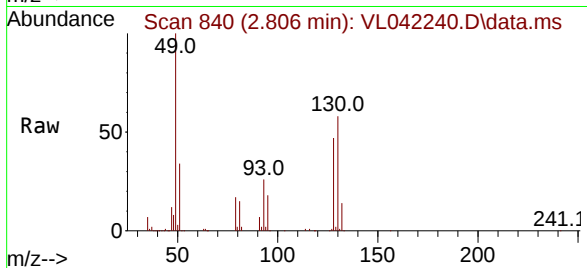
Tgt Ion: 49 Resp: 191137

Ion Ratio Lower Upper

49 100

128 46.8 22.9 68.5

130 59.1 28.8 86.4



#2

Dichlorodifluoromethane

Concen: 0.060 ppbv

RT: 1.505 min Scan# 438

Delta R.T. 0.010 min

Lab File: VL042240.D

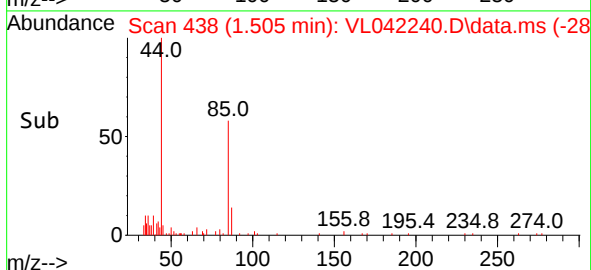
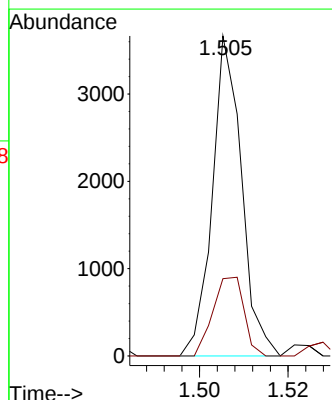
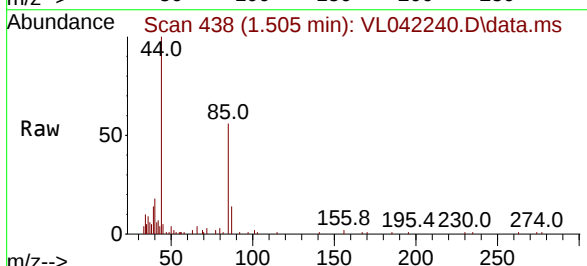
Acq: 07 Apr 2025 19:48

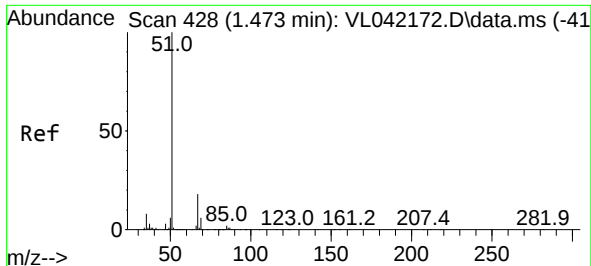
Tgt Ion: 85 Resp: 1682

Ion Ratio Lower Upper

85 100

87 24.1 26.1 39.1#

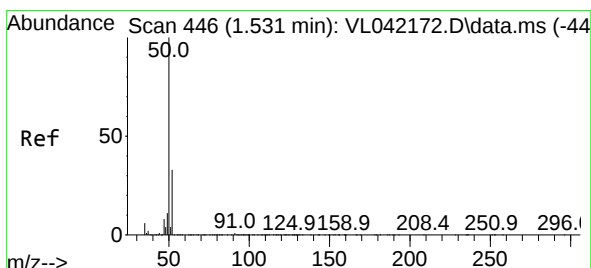
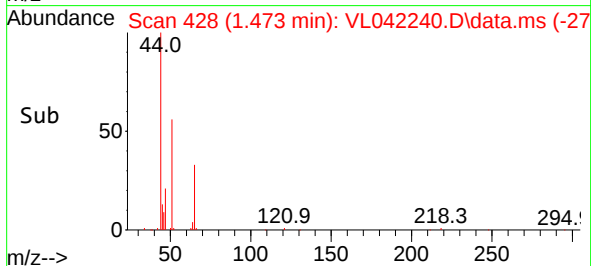
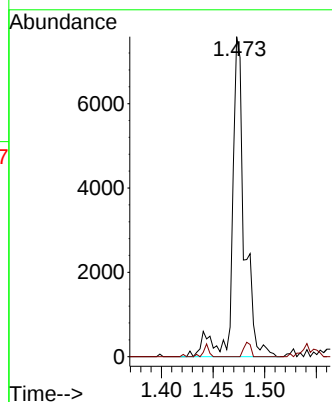
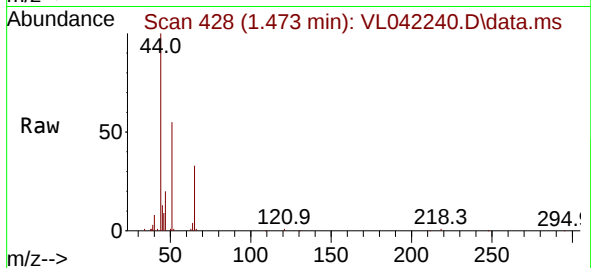




#3
Chlorodifluoromethane
Concen: 0.214 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

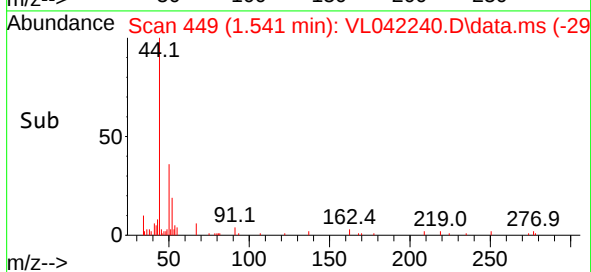
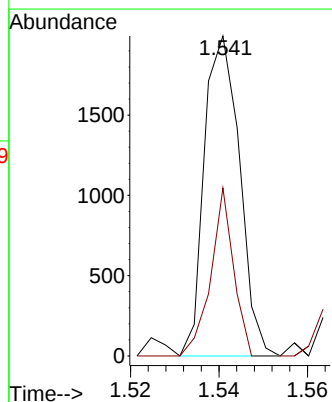
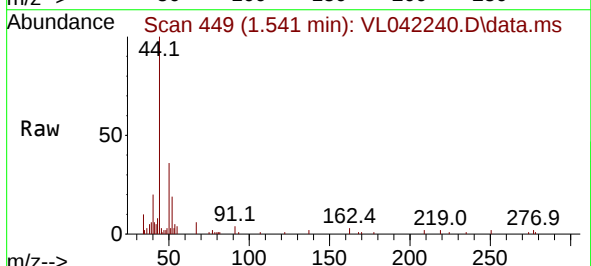
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

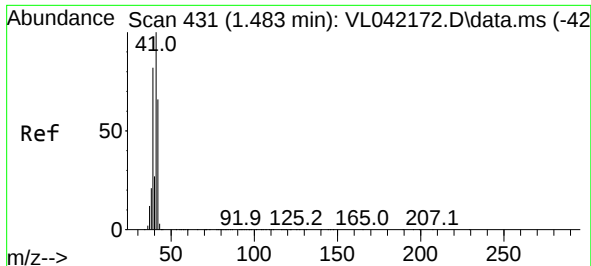
Tgt Ion: 51 Resp: 6177
Ion Ratio Lower Upper
51 100
67 2.6 15.0 22.6#



#4
Chloromethane
Concen: 0.096 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.009 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

Tgt Ion: 50 Resp: 1103
Ion Ratio Lower Upper
50 100
52 52.5 26.1 39.1#





#9

Propene

Concen: 0.424 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042240.D

Acq: 07 Apr 2025 19:48

Instrument :

MSVOA_L

ClientSampleId :

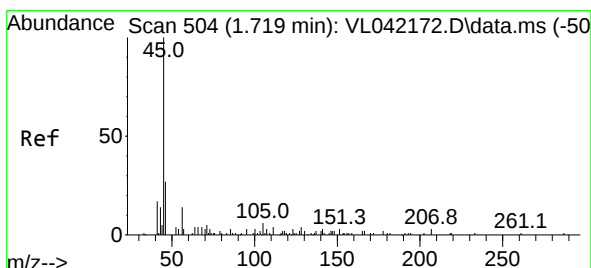
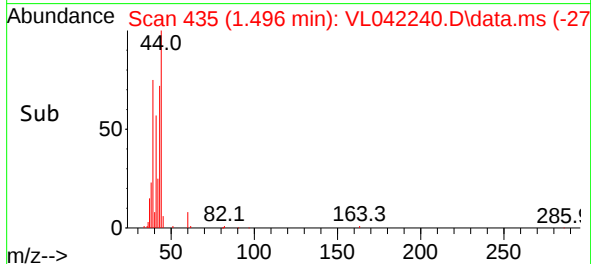
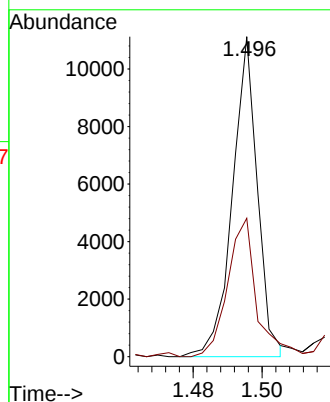
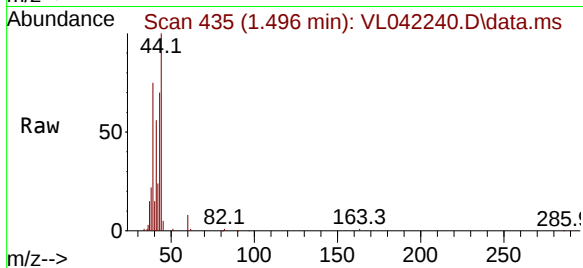
SSSG-B10-3-03312025DL

Tgt Ion: 41 Resp: 5601

Ion Ratio Lower Upper

41 100

42 58.8 55.4 83.2



#13

Ethanol

Concen: 509.855 ppbv

RT: 1.732 min Scan# 508

Delta R.T. 0.013 min

Lab File: VL042240.D

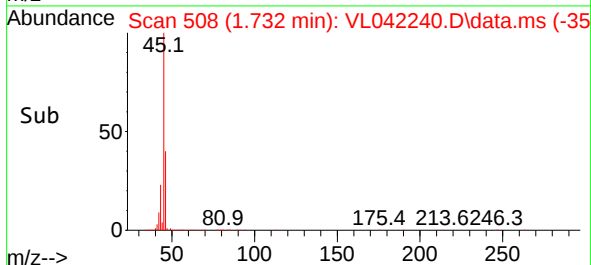
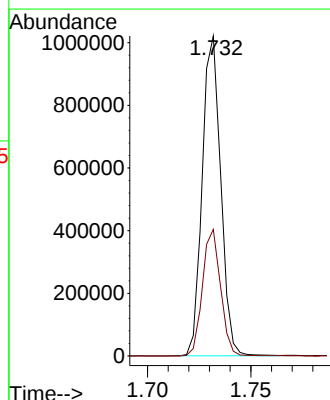
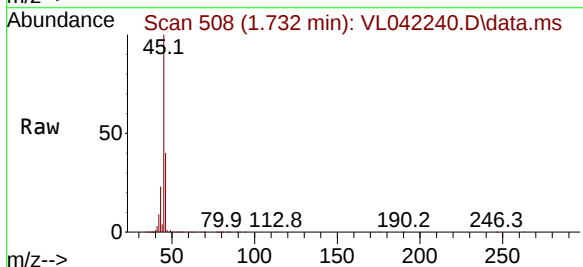
Acq: 07 Apr 2025 19:48

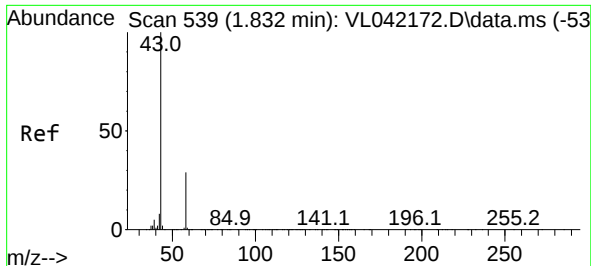
Tgt Ion: 45 Resp: 636905

Ion Ratio Lower Upper

45 100

46 38.8 20.2 80.8





#15

Acetone

Concen: 20.664 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042240.D

Acq: 07 Apr 2025 19:48

Instrument :

MSVOA_L

ClientSampleId :

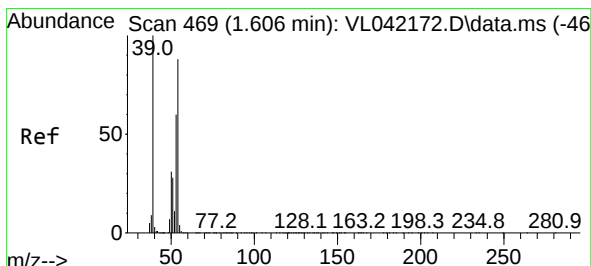
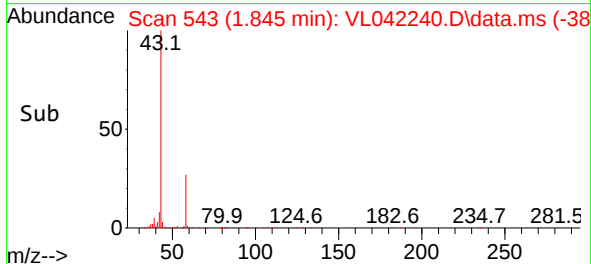
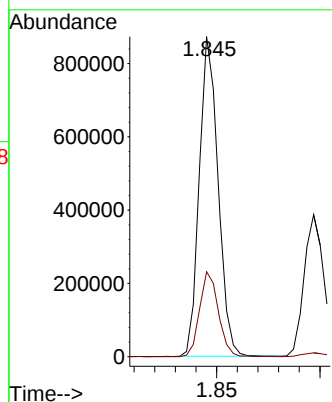
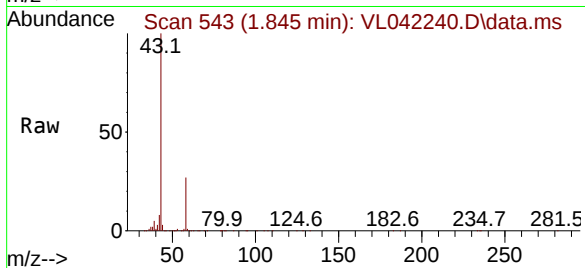
SSSG-B10-3-03312025DL

Tgt Ion: 43 Resp: 552376

Ion Ratio Lower Upper

43 100

58 26.5 23.2 34.8



#16

1,3-Butadiene

Concen: 0.570 ppbv

RT: 1.496 min Scan# 435

Delta R.T. -0.110 min

Lab File: VL042240.D

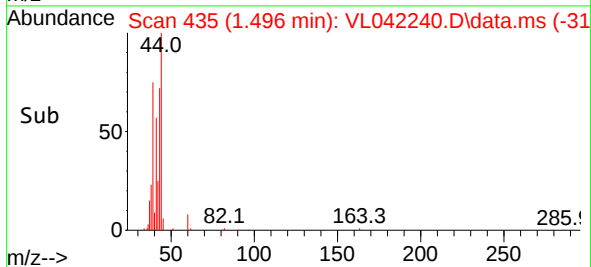
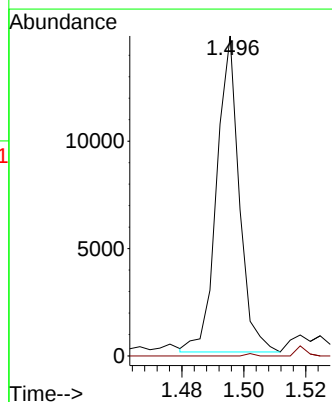
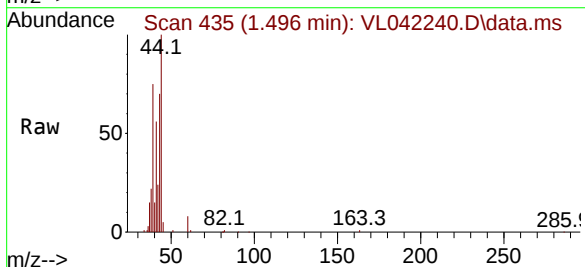
Acq: 07 Apr 2025 19:48

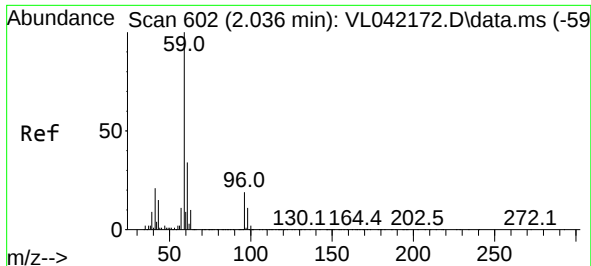
Tgt Ion: 39 Resp: 7446

Ion Ratio Lower Upper

39 100

54 1.7 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.153 ppbv

RT: 2.059 min Scan# 602

Delta R.T. 0.022 min

Lab File: VL042240.D

Acq: 07 Apr 2025 19:48

Instrument :

MSVOA_L

ClientSampleId :

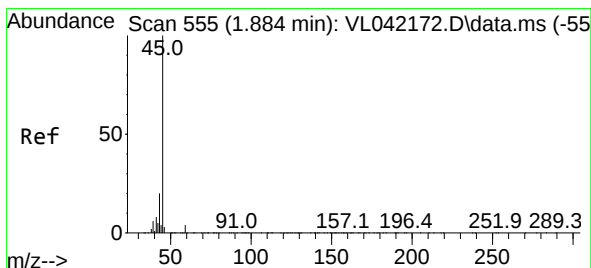
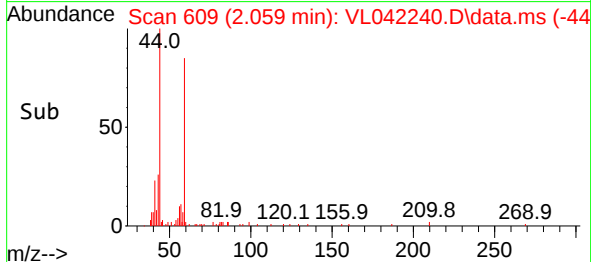
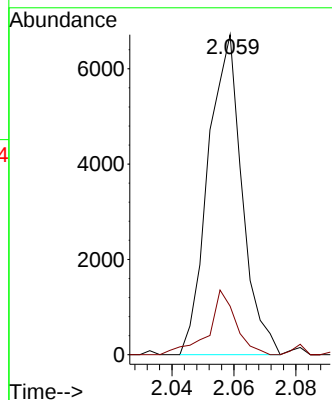
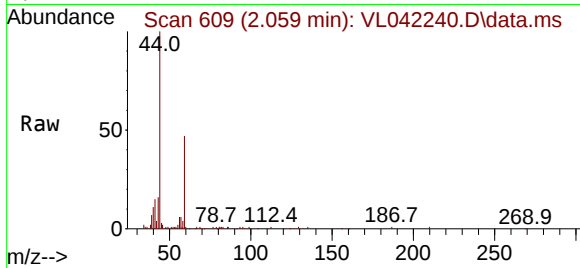
SSSG-B10-3-03312025DL

Tgt Ion: 59 Resp: 5110

Ion Ratio Lower Upper

59 100

57 18.6 8.9 13.3#



#19

Isopropyl Alcohol

Concen: 71.770 ppbv

RT: 1.897 min Scan# 559

Delta R.T. 0.013 min

Lab File: VL042240.D

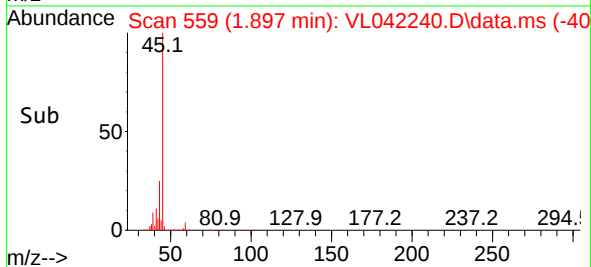
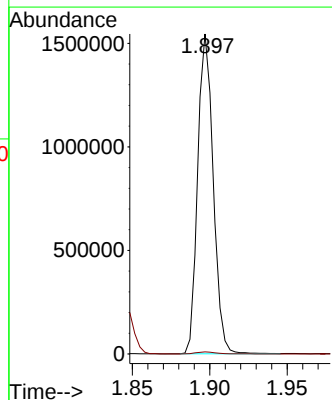
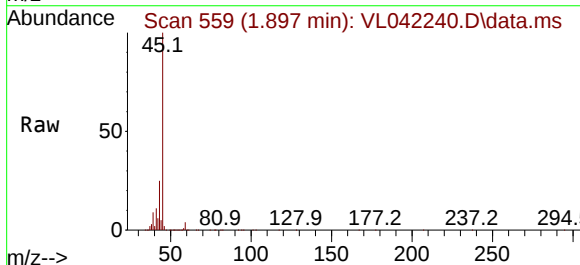
Acq: 07 Apr 2025 19:48

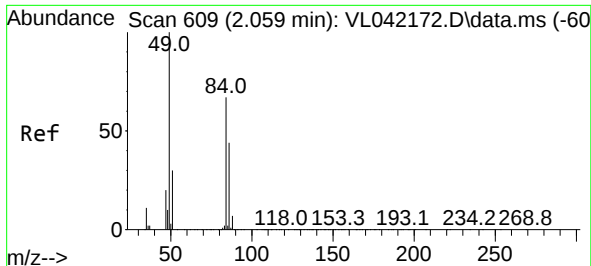
Tgt Ion: 45 Resp: 1082467

Ion Ratio Lower Upper

45 100

58 0.8 36.9 55.3#

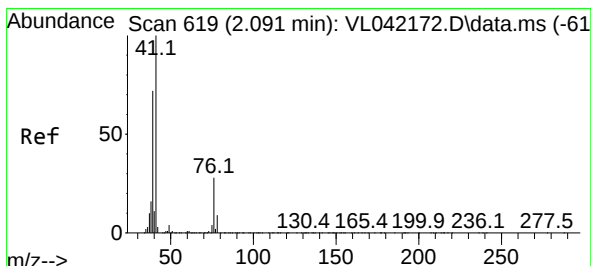
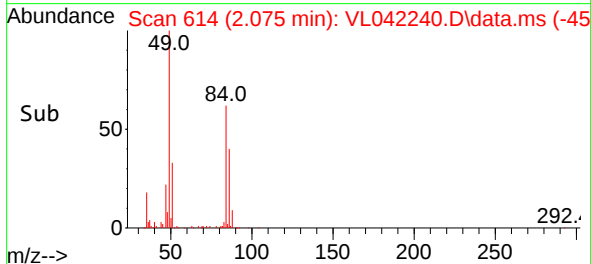
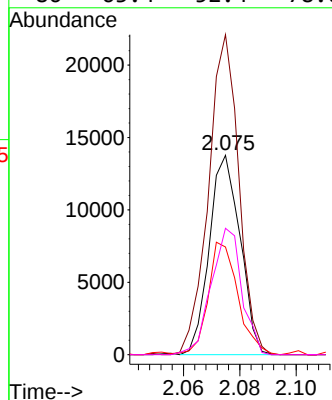
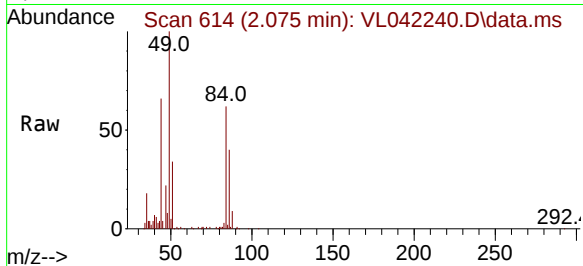




#20
Methylene Chloride
Concen: 1.051 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.016 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

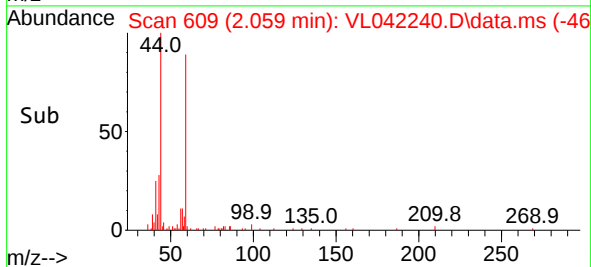
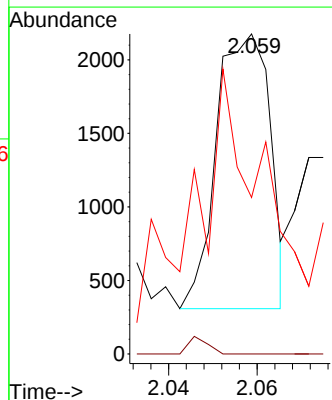
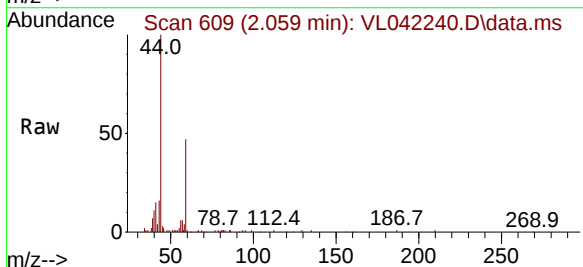
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

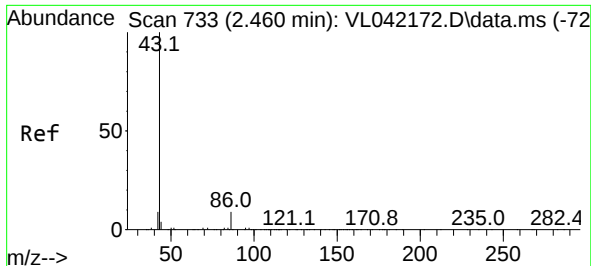
Tgt Ion:	84	Resp:	10459
Ion	Ratio	Lower	Upper
84	100		
49	160.5	120.2	180.4
51	54.0	37.4	56.0
86	63.4	52.4	78.6



#21
Allyl Chloride
Concen: 0.084 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.033 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

Tgt Ion:	41	Resp:	1575
Ion	Ratio	Lower	Upper
41	100		
76	14.3	24.1	36.1#
39	0.0	61.1	91.7#

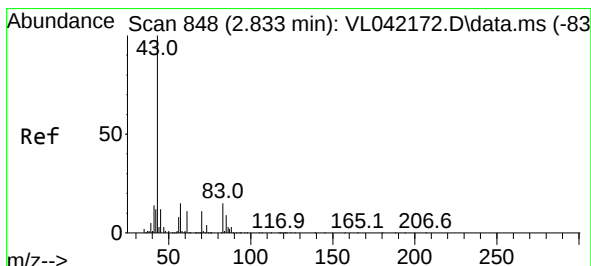
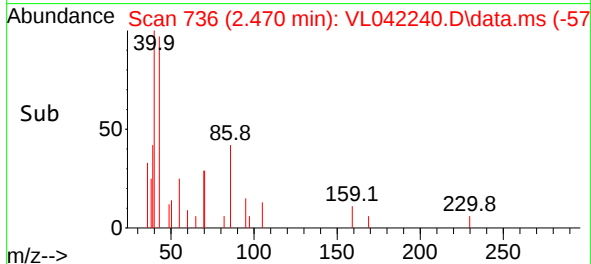
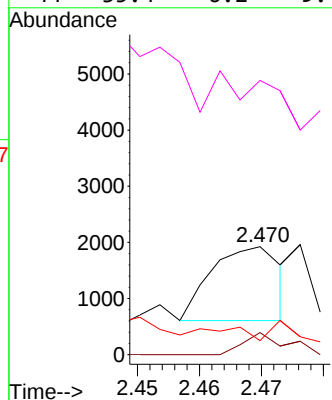
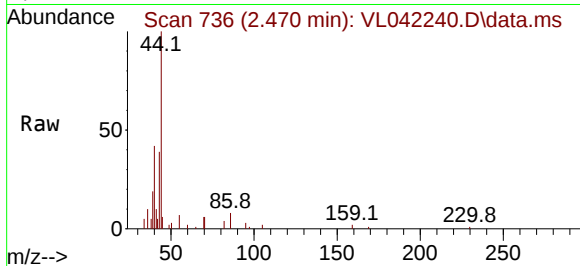




#23
 Vinyl Acetate
 Concen: 0.088 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042240.D
 Acq: 07 Apr 2025 19:48

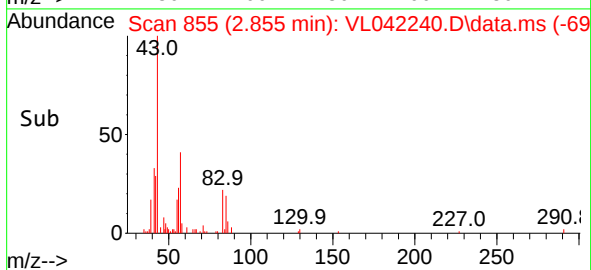
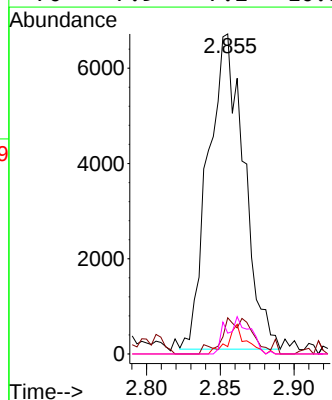
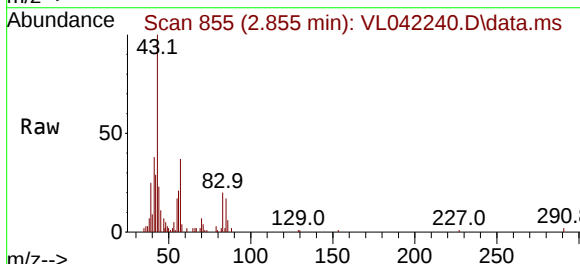
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

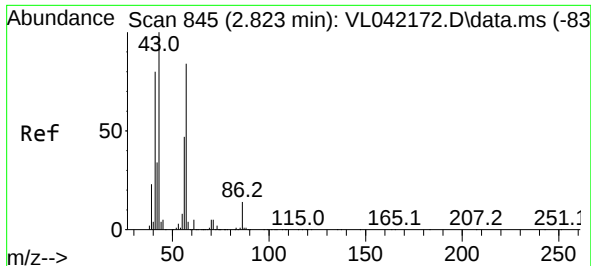
Tgt Ion: 43	Resp: 1021
Ion Ratio	Lower Upper
43 100	
86 29.7	5.5 8.3#
42 0.0	8.6 13.0#
44 35.4	6.2 9.4#



#25
 Ethyl Acetate
 Concen: 0.161 ppbv
 RT: 2.855 min Scan# 855
 Delta R.T. 0.022 min
 Lab File: VL042240.D
 Acq: 07 Apr 2025 19:48

Tgt Ion: 43	Resp: 11169
Ion Ratio	Lower Upper
43 100	
45 10.6	8.2 12.2
61 4.8	7.3 10.9#
70 7.9	7.2 10.8

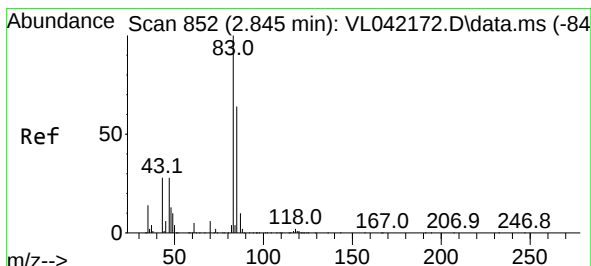
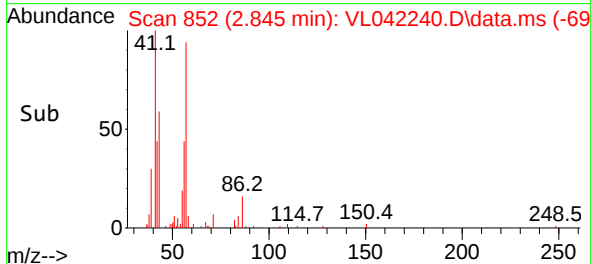
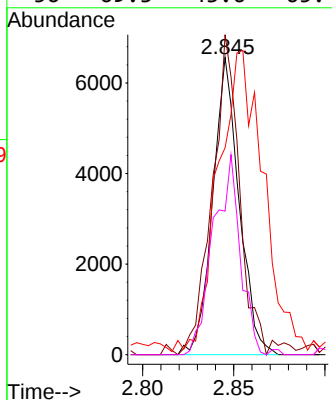
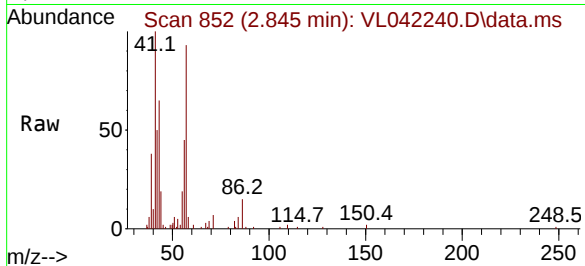




#26
Hexane
Concen: 0.247 ppbv
RT: 2.845 min Scan# 81
Delta R.T. 0.022 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

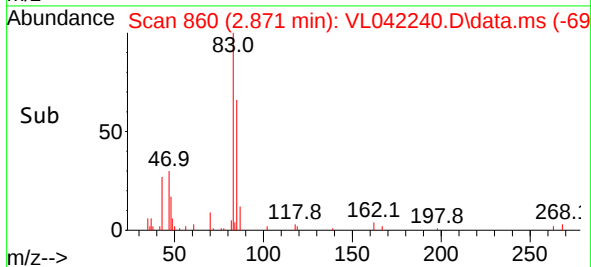
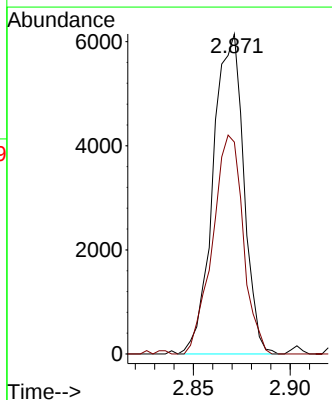
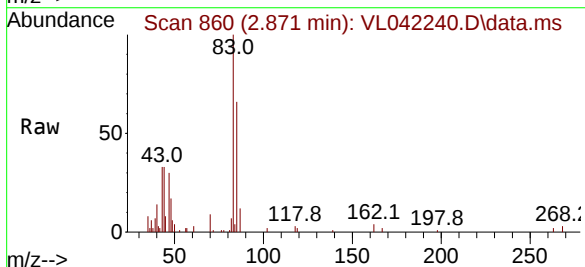
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

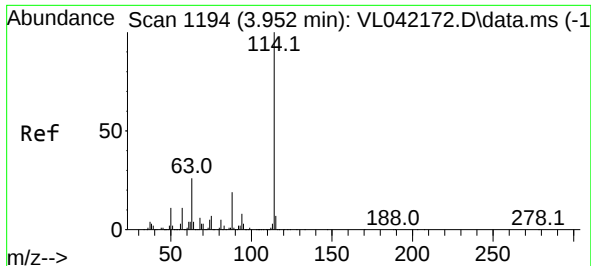
Tgt Ion: 57 Resp: 6613
Ion Ratio Lower Upper
57 100
41 114.5 76.6 114.8
43 182.8 207.8 311.8#
56 69.3 43.6 65.4#



#29
Chloroform
Concen: 0.172 ppbv
RT: 2.871 min Scan# 860
Delta R.T. 0.026 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

Tgt Ion: 83 Resp: 6748
Ion Ratio Lower Upper
83 100
85 66.2 51.4 77.2

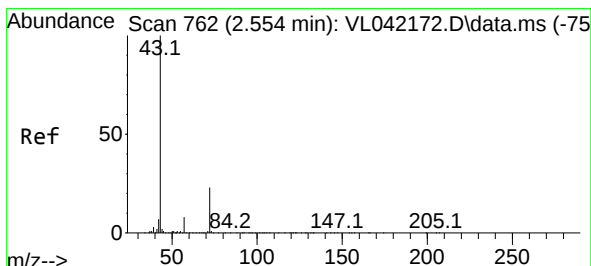
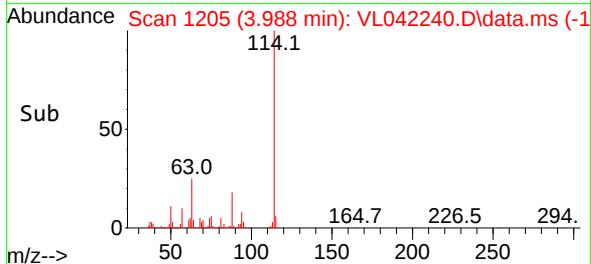
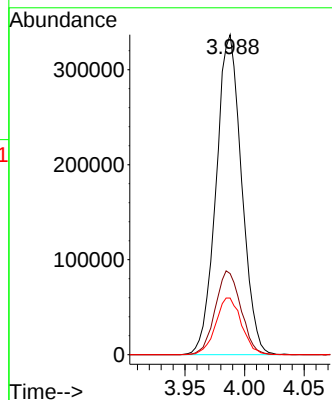
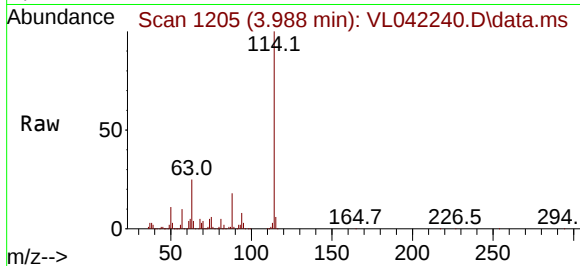




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.988 min Scan# 1194
 Delta R.T. 0.035 min
 Lab File: VL042240.D
 Acq: 07 Apr 2025 19:48

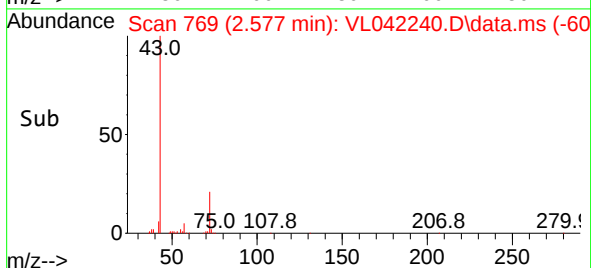
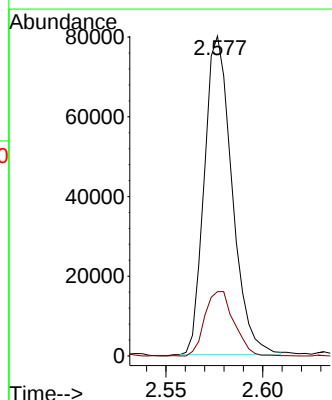
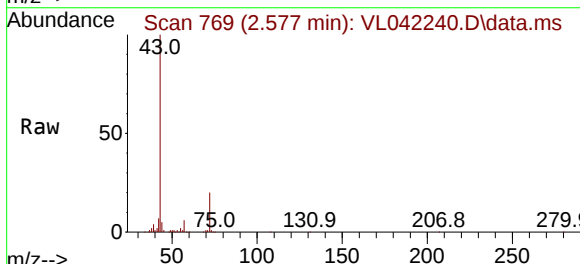
Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

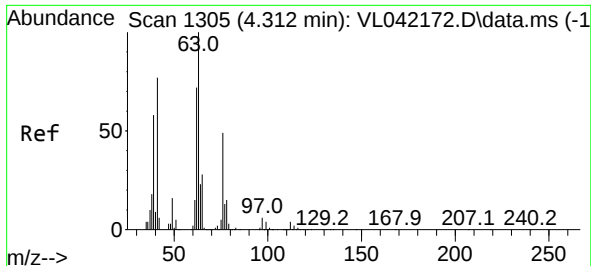
Tgt Ion:114 Resp: 500724
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.7 31.1
 88 17.9 15.0 22.4



#34
 2-Butanone
 Concen: 2.193 ppbv
 RT: 2.577 min Scan# 769
 Delta R.T. 0.022 min
 Lab File: VL042240.D
 Acq: 07 Apr 2025 19:48

Tgt Ion: 43 Resp: 79642
 Ion Ratio Lower Upper
 43 100
 72 21.4 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.307 ppbv

RT: 3.985 min Scan# 11

Delta R.T. -0.327 min

Lab File: VL042240.D

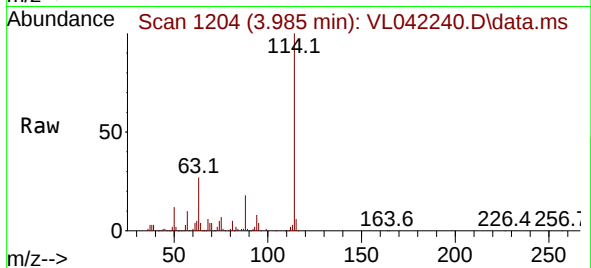
Acq: 07 Apr 2025 19:48

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-3-03312025DL



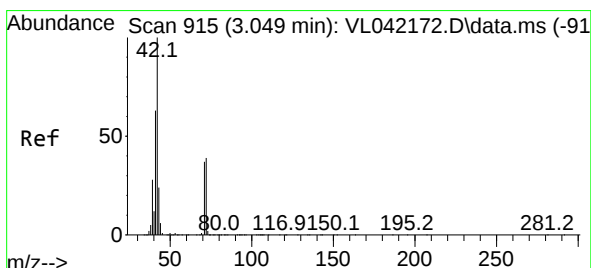
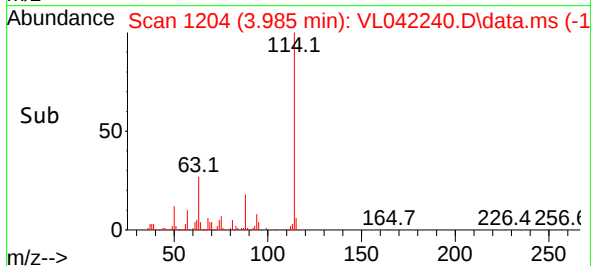
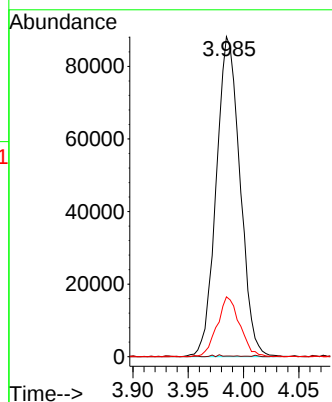
Tgt Ion: 63 Resp: 132100

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 18.7 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.075 ppbv

RT: 3.088 min Scan# 927

Delta R.T. 0.039 min

Lab File: VL042240.D

Acq: 07 Apr 2025 19:48

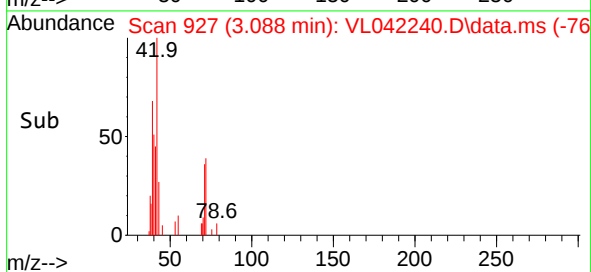
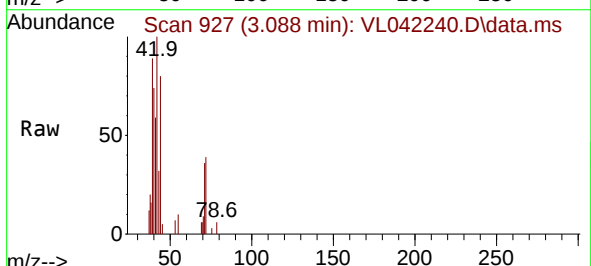
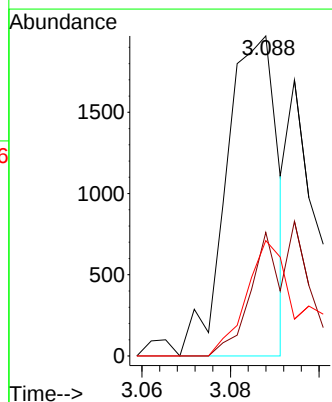
Tgt Ion: 42 Resp: 1574

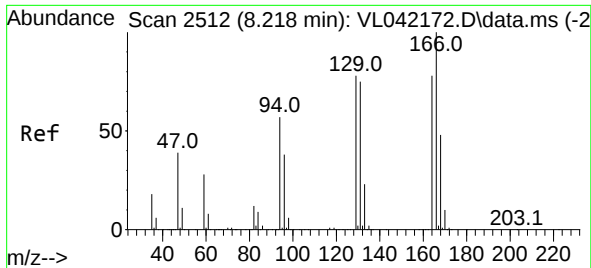
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 40.1 30.2 45.4

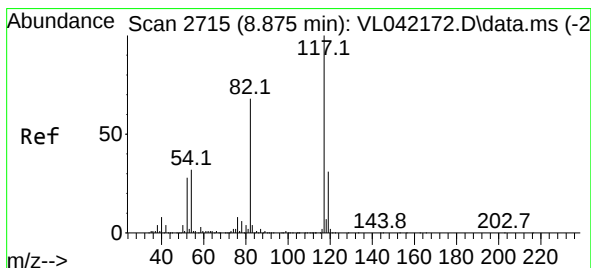
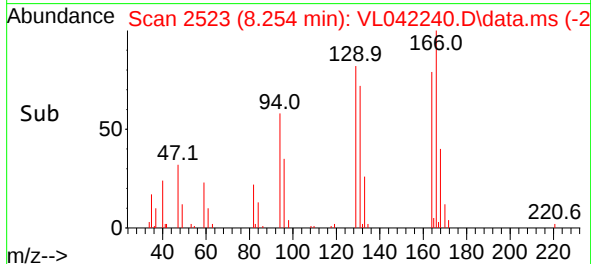
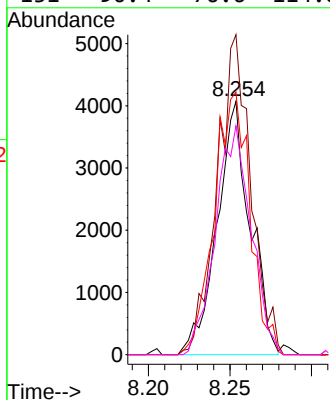
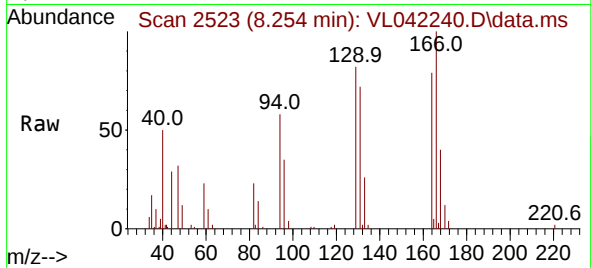




#52
Tetrachloroethene
Concen: 0.292 ppbv
RT: 8.254 min Scan# 21
Delta R.T. 0.035 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

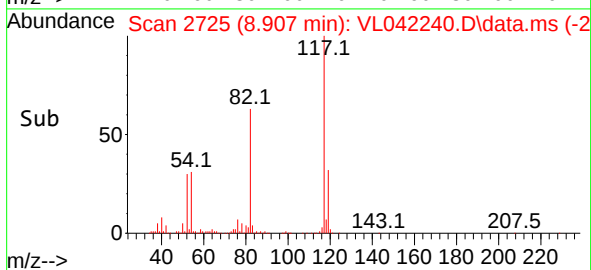
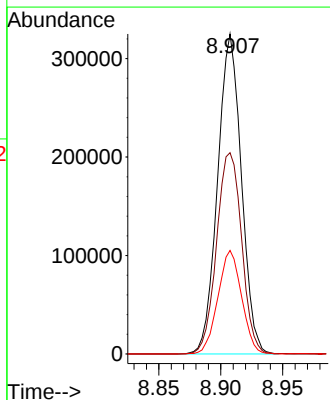
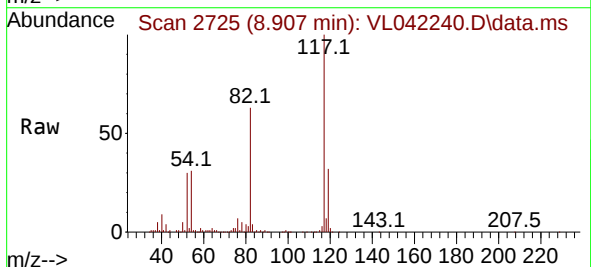
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

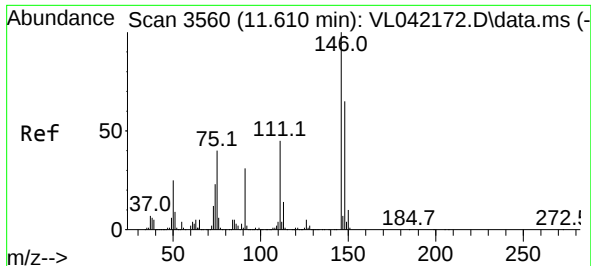
Tgt	Ion:164	Resp:	5753
Ion	Ratio	Lower	Upper
164	100		
166	126.3	102.5	153.7
129	103.6	79.8	119.8
131	90.4	76.6	114.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.907 min Scan# 2725
Delta R.T. 0.032 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

Tgt Ion:117	Resp:	434892	
Ion	Ratio	Lower	Upper
117	100		
82	66.3	55.8	83.6
119	32.4	25.5	38.3

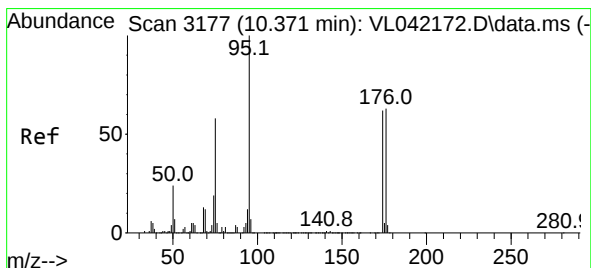
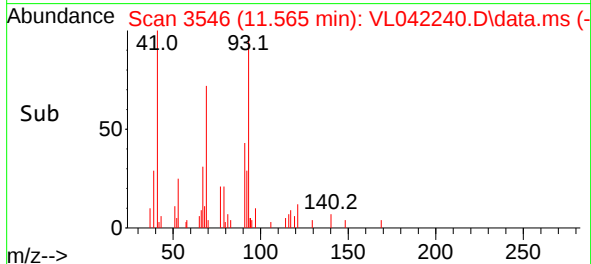
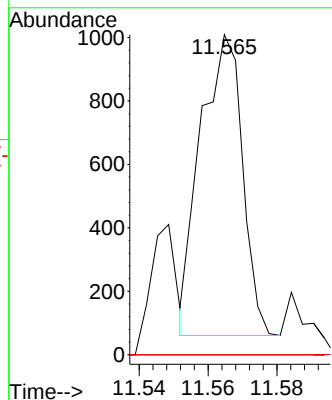
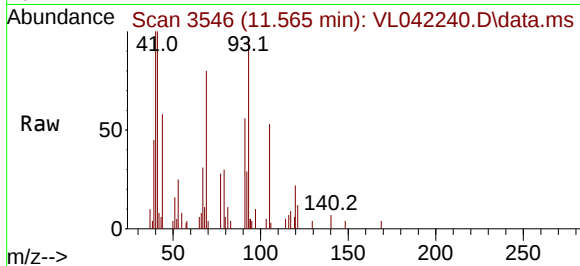




#66
Benzyl Chloride
Concen: 0.088 ppbv
RT: 11.565 min Scan# 3185
Delta R.T. -0.046 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

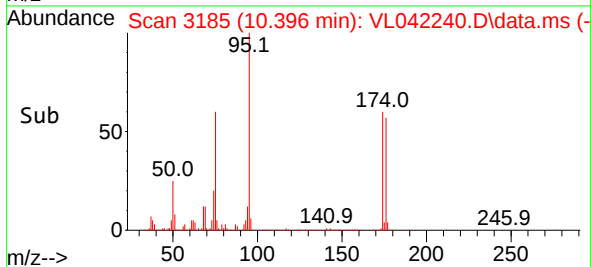
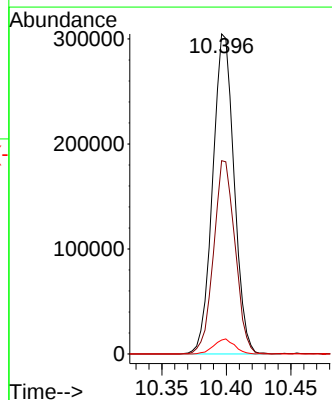
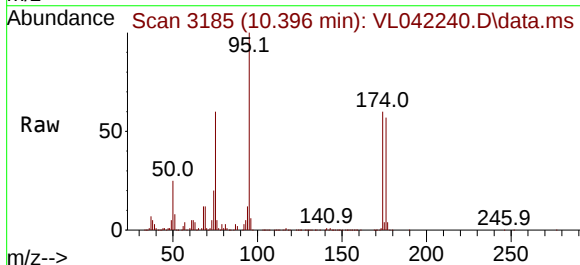
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-3-03312025DL

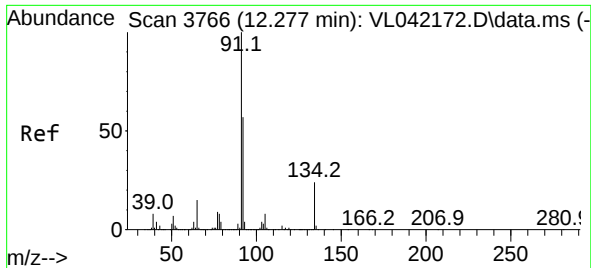
Tgt Ion: 91 Resp: 800
Ion Ratio Lower Upper
91 100
126 5.6 13.8 20.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.851 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042240.D
Acq: 07 Apr 2025 19:48

Tgt Ion: 95 Resp: 351813
Ion Ratio Lower Upper
95 100
174 60.7 50.6 76.0
175 4.6 3.8 5.6





#70
 n-Butylbenzene
 Concen: 0.030 ppbv
 RT: 12.442 min Scan# 3817
 Delta R.T. 0.165 min
 Lab File: VL042240.D
 Acq: 07 Apr 2025 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-3-03312025DL

Tgt Ion: 91 Resp: 3157
 Ion Ratio Lower Upper
 91 100
 92 0.0 44.9 67.3#
 134 10.7 19.2 28.8#

