

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051223\
 Data File : VL040426.D
 Acq On : 12 May 2023 20:11
 Operator : SY/MD
 Sample : 02785-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 15 00:48:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

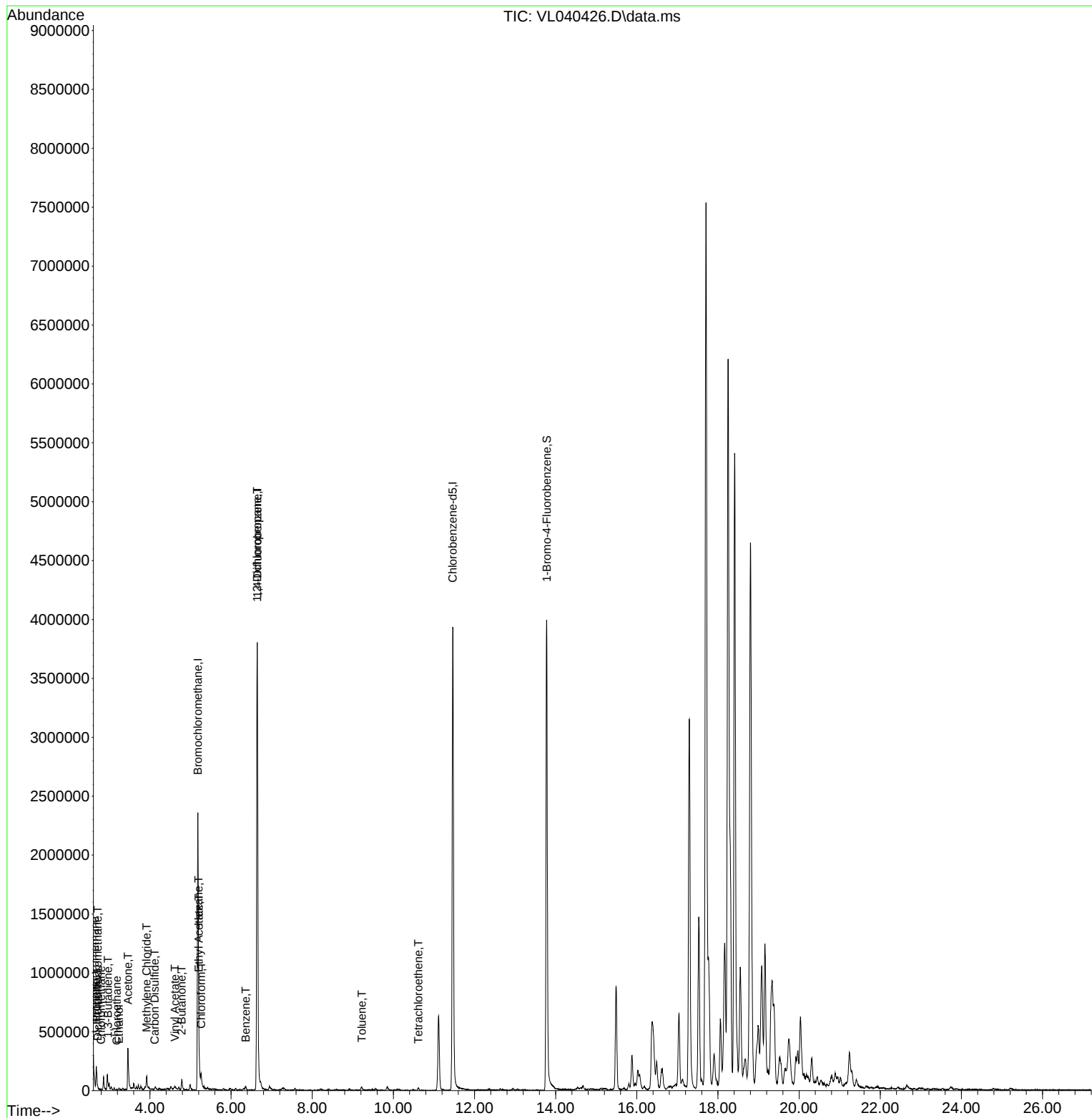
Internal Standards						
1) Bromochloromethane	5.179	49	1140082	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.645	114	3012106	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2672181	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2023308	9.156	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	11307	0.055	ppbv	93
3) Chlorodifluoromethane	2.636	51	25898	0.174	ppbv #	63
4) Chloromethane	2.796	50	4776	0.051	ppbv #	82
7) Chloroethane	3.182	64	914	0.031	ppbv #	67
9) Propene	2.677	41	75050	1.275	ppbv	100
13) Ethanol	3.237	45	9393	1.912	ppbv	69
15) Acetone	3.459	43	370294	2.293	ppbv	93
16) 1,3-Butadiene	2.967	39	12157	0.182	ppbv #	74
20) Methylene Chloride	3.919	84	33392	0.518	ppbv	95
23) Vinyl Acetate	4.613	43	17337	0.422	ppbv #	87
25) Ethyl Acetate	5.205	43	37822	0.139	ppbv #	81
26) Hexane	5.198	57	26992	0.236	ppbv #	1
27) Carbon Disulfide	4.115	76	5552	0.037	ppbv #	1
29) Chloroform	5.263	83	57834	0.283	ppbv	99
34) 2-Butanone	4.783	43	108346	0.667	ppbv	95
36) Benzene	6.362	78	14217	0.058	ppbv	97
39) 1,2-Dichloropropane	6.642	63	719761	7.444	ppbv #	25
52) Tetrachloroethene	10.616	164	3686	0.048	ppbv #	33
53) Toluene	9.221	91	21628	0.083	ppbv	94

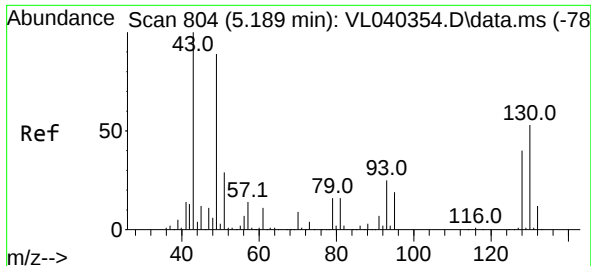
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration



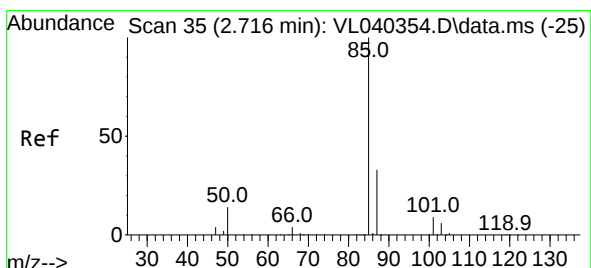
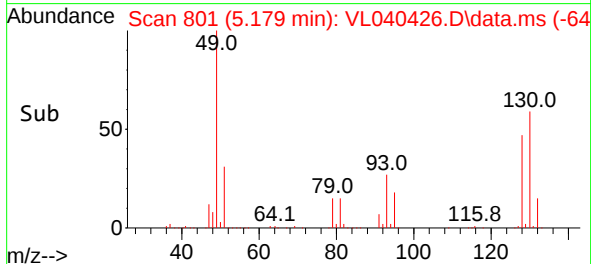
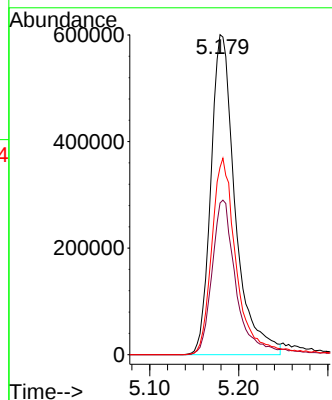
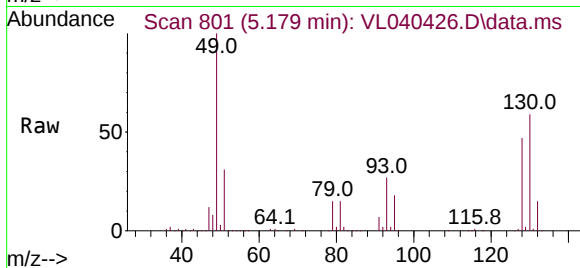


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 49 Resp: 1140082

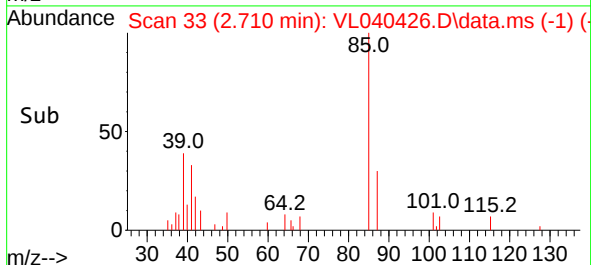
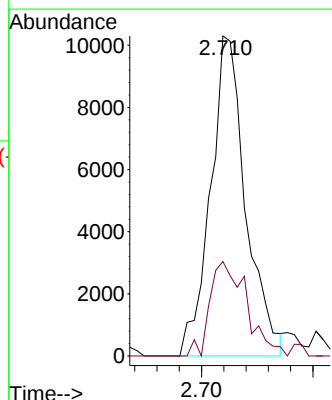
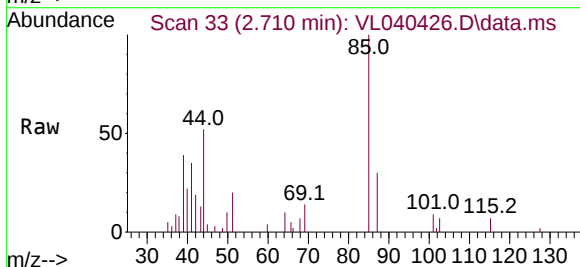
Ion	Ratio	Lower	Upper
49	100		
128	49.5	23.7	71.1
130	63.9	29.9	89.8

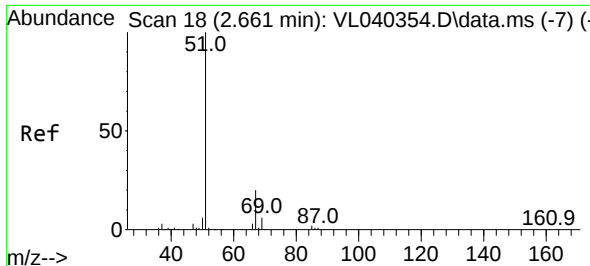


#2
Dichlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 85 Resp: 11307

Ion	Ratio	Lower	Upper
85	100		
87	29.5	26.6	40.0

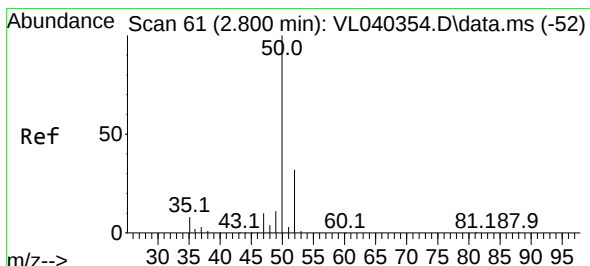
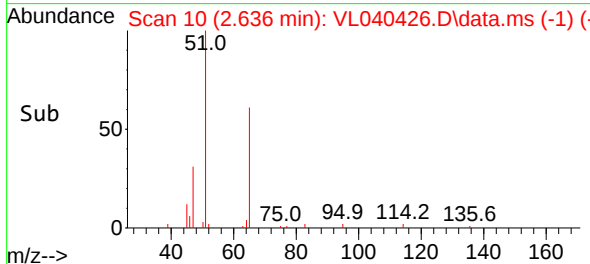
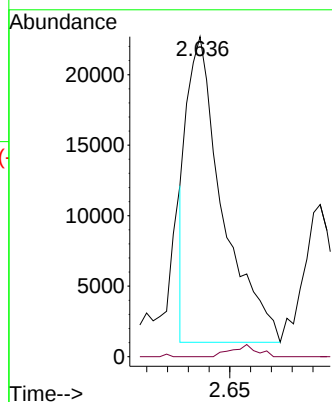
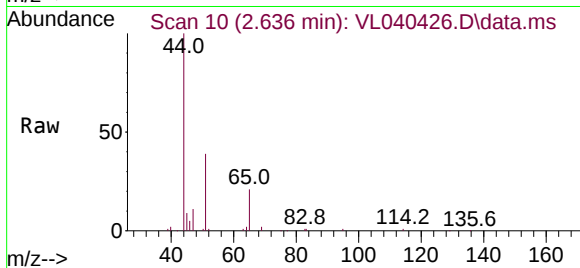




#3
Chlorodifluoromethane
Concen: 0.174 ppbv
RT: 2.636 min Scan# 10
Delta R.T. -0.025 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

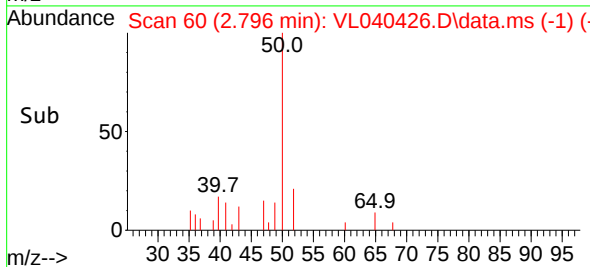
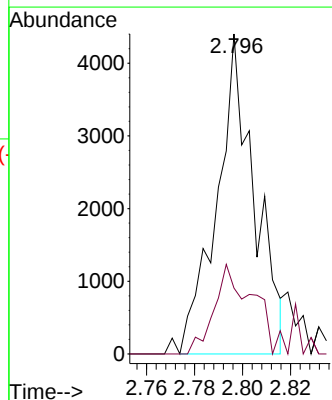
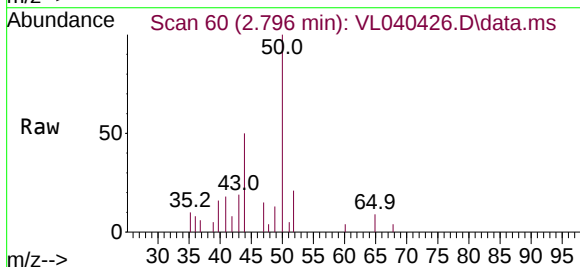
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

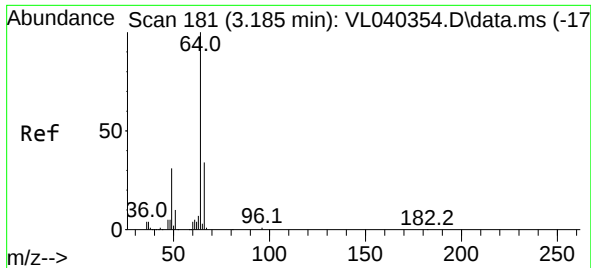
Tgt Ion: 51 Resp: 25898
Ion Ratio Lower Upper
51 100
67 2.7 15.5 23.3#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 2.796 min Scan# 60
Delta R.T. -0.004 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 50 Resp: 4776
Ion Ratio Lower Upper
50 100
52 21.5 25.3 37.9#

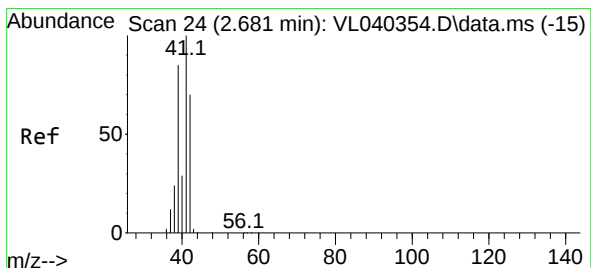
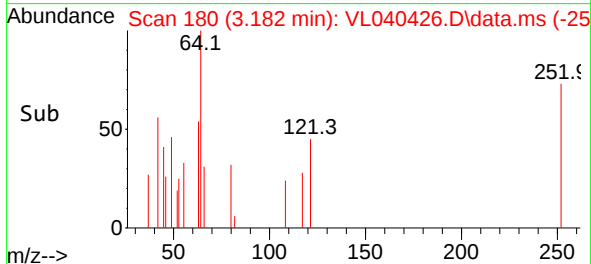
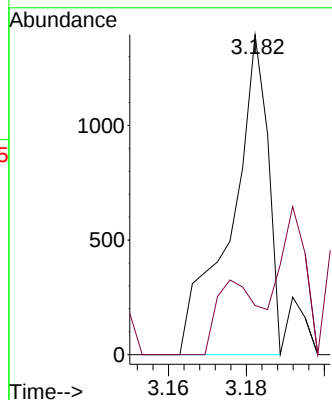
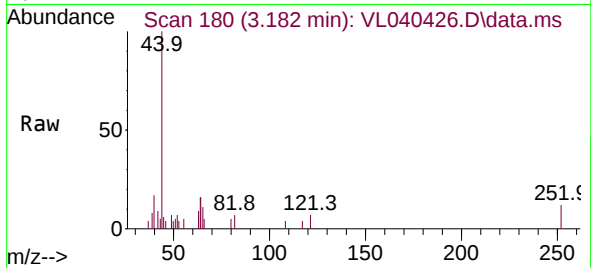




#7
Chloroethane
Concen: 0.031 ppbv
RT: 3.182 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

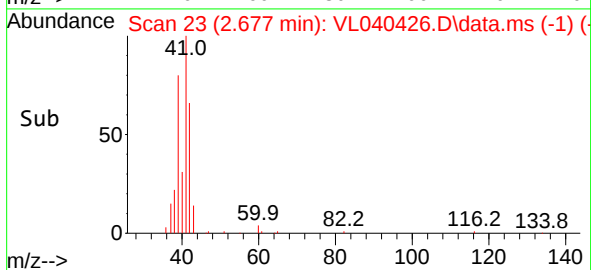
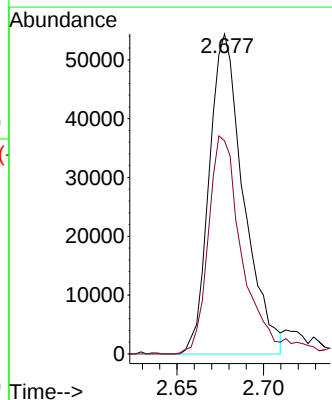
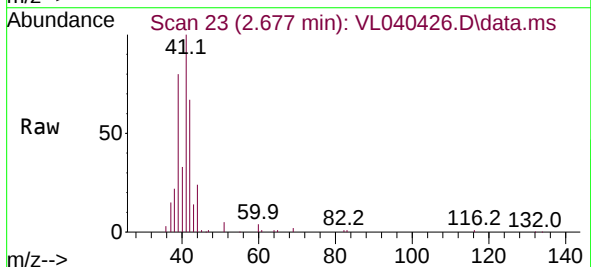
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

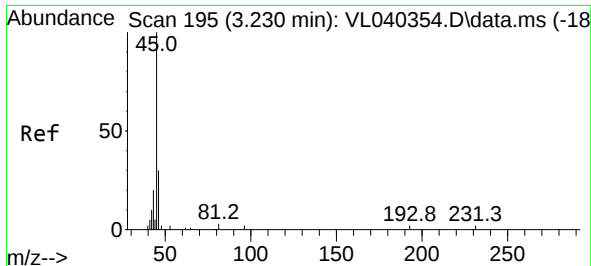
Tgt Ion: 64 Resp: 914
Ion Ratio Lower Upper
64 100
66 15.3 27.5 41.3#



#9
Propene
Concen: 1.275 ppbv
RT: 2.677 min Scan# 23
Delta R.T. -0.004 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 41 Resp: 75050
Ion Ratio Lower Upper
41 100
42 70.4 56.5 84.7

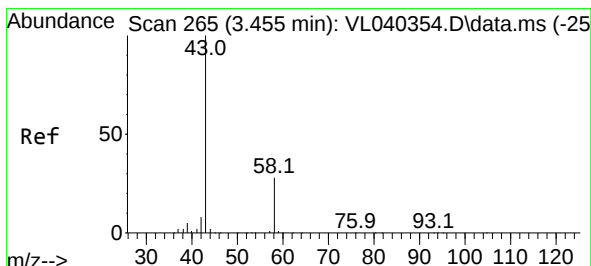
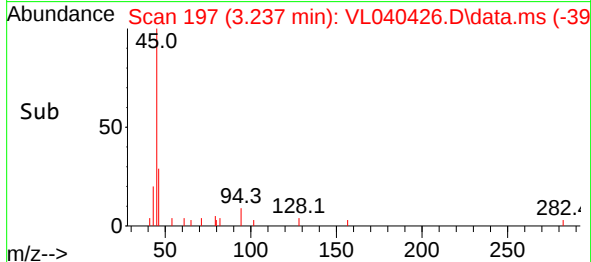
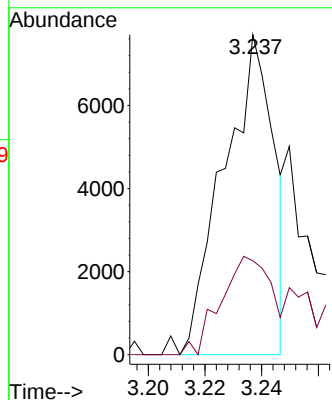
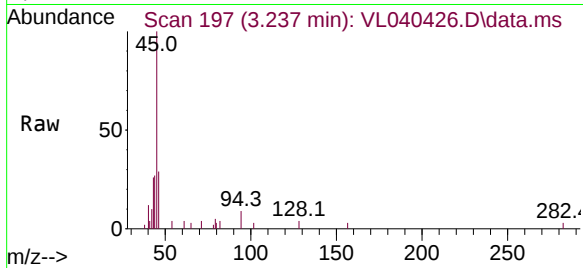




#13
Ethanol
Concen: 1.912 ppbv
RT: 3.237 min Scan# 195
Delta R.T. 0.007 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

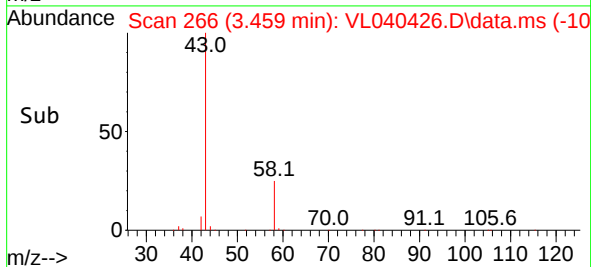
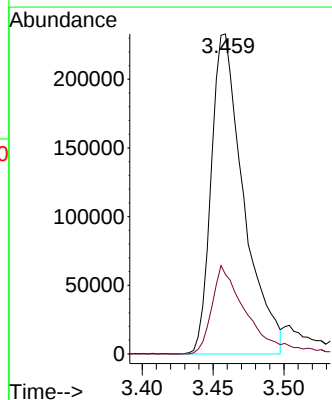
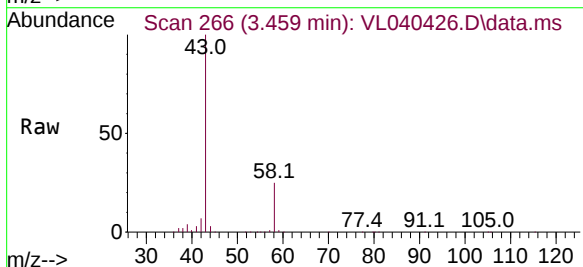
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

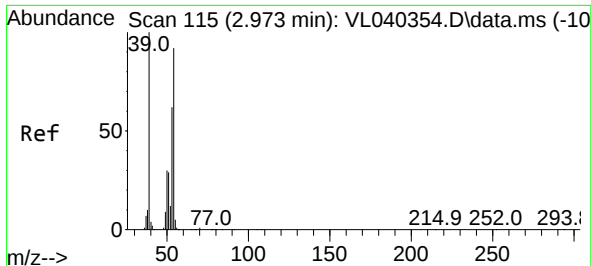
Tgt Ion: 45 Resp: 9393
Ion Ratio Lower Upper
45 100
46 57.0 15.3 61.3



#15
Acetone
Concen: 2.293 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.004 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 43 Resp: 370294
Ion Ratio Lower Upper
43 100
58 31.6 22.2 33.2





#16

1,3-Butadiene

Concen: 0.182 ppbv

RT: 2.967 min Scan# 115

Delta R.T. -0.006 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

Instrument :

MSVOA_L

ClientSampleId :

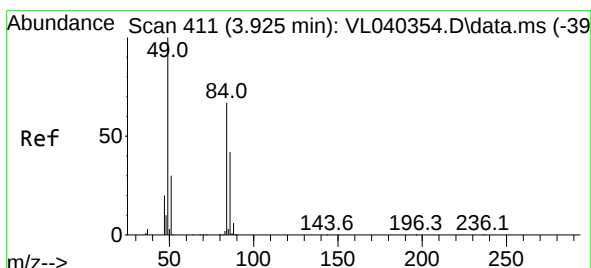
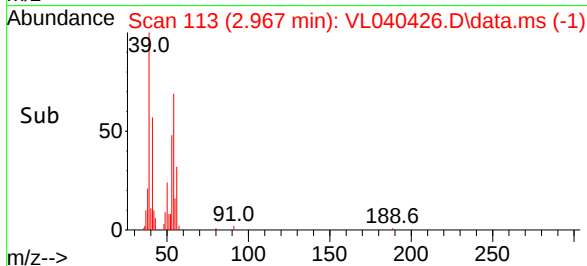
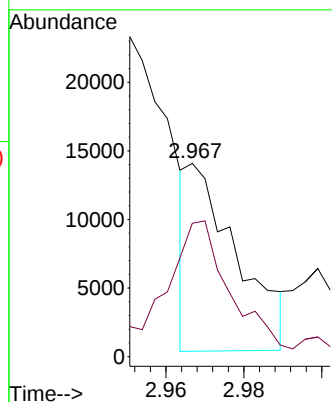
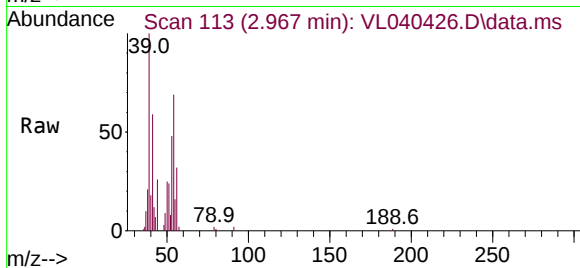
SV1DL

Tgt Ion: 39 Resp: 12157

Ion Ratio Lower Upper

39 100

54 110.1 68.8 103.2#



#20

Methylene Chloride

Concen: 0.518 ppbv

RT: 3.919 min Scan# 409

Delta R.T. -0.006 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

Tgt Ion: 84 Resp: 33392

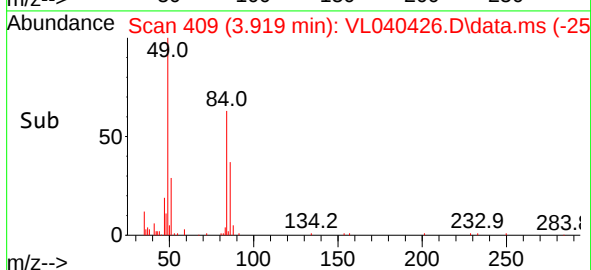
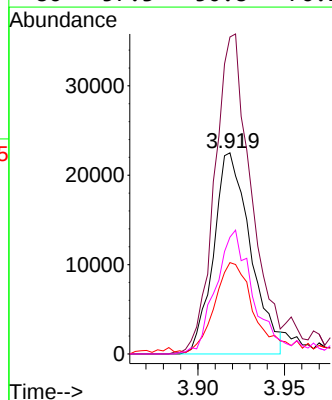
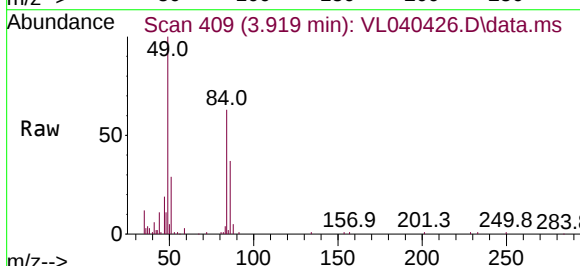
Ion Ratio Lower Upper

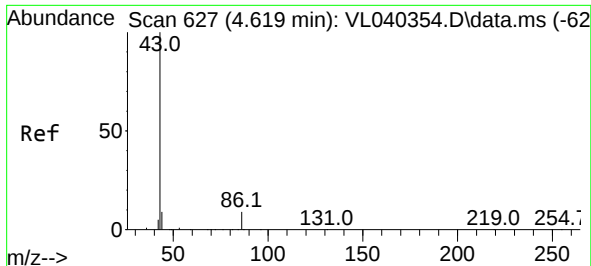
84 100

49 155.1 120.1 180.1

51 43.8 36.3 54.5

86 57.3 50.8 76.2



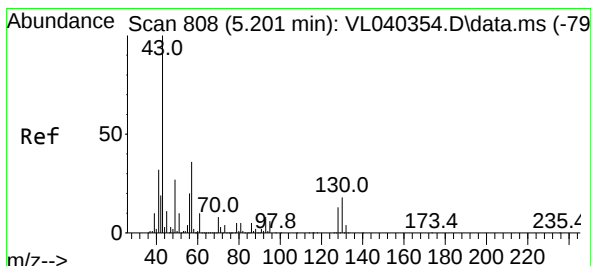
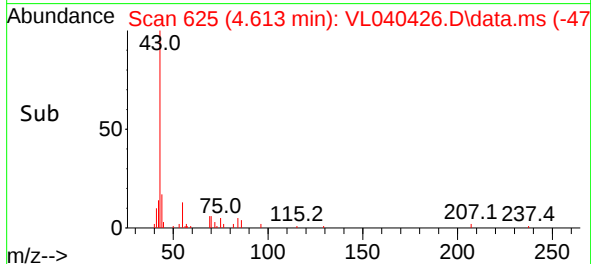
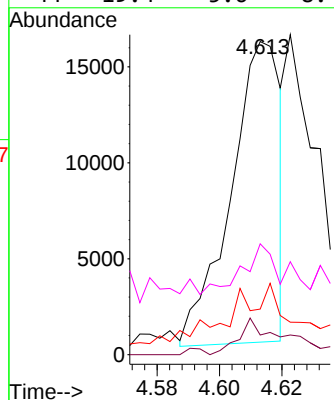
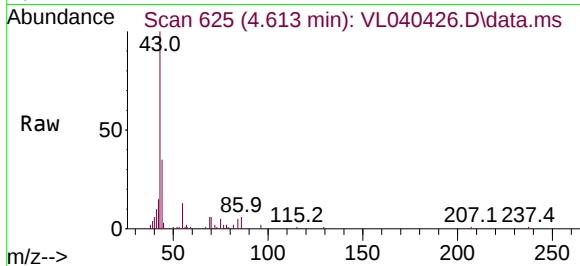


#23
 Vinyl Acetate
 Concen: 0.422 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040426.D
 Acq: 12 May 2023 20:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 43 Resp: 17337

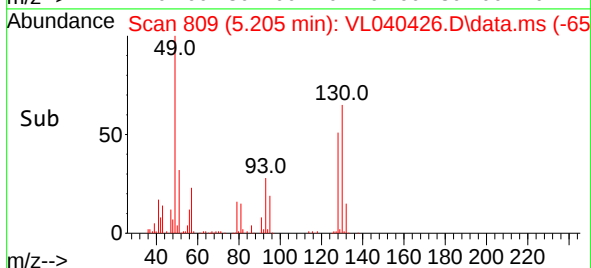
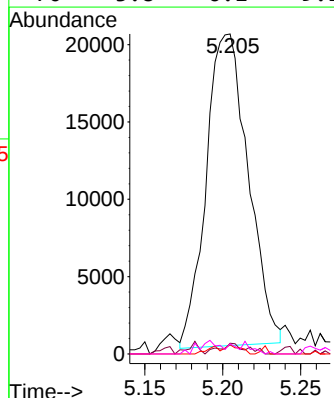
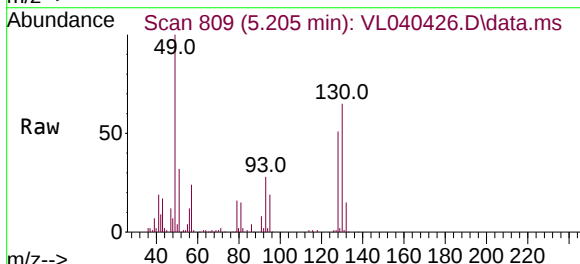
Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.0	9.0
42	7.2	6.4	9.6
44	19.4	5.6	8.4#

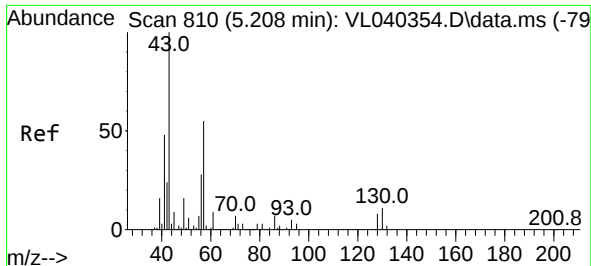


#25
 Ethyl Acetate
 Concen: 0.139 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. 0.004 min
 Lab File: VL040426.D
 Acq: 12 May 2023 20:11

Tgt Ion: 43 Resp: 37822

Ion	Ratio	Lower	Upper
43	100		
45	2.9	8.5	12.7#
61	2.1	8.5	12.7#
70	3.8	6.1	9.1#

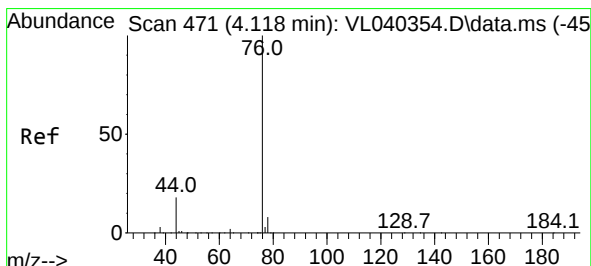
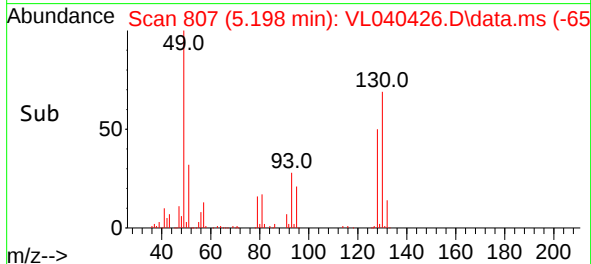
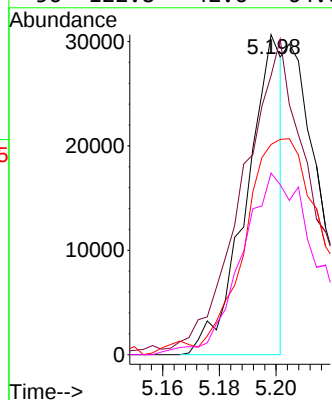
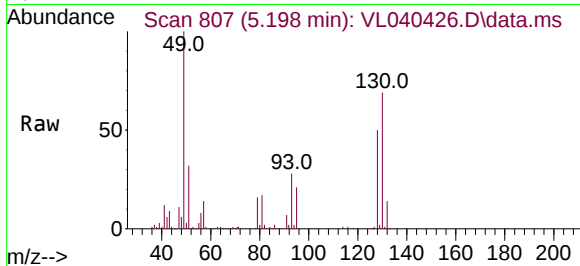




#26
Hexane
Concen: 0.236 ppbv
RT: 5.198 min Scan# 810
Delta R.T. -0.010 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

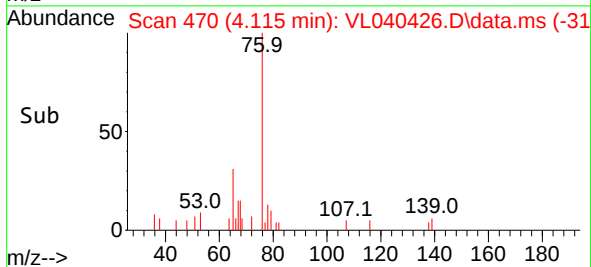
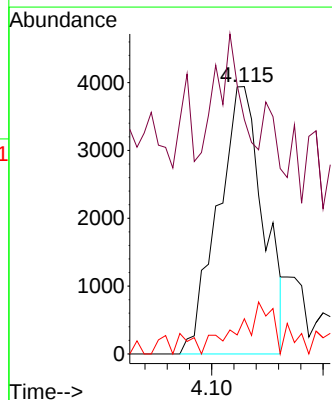
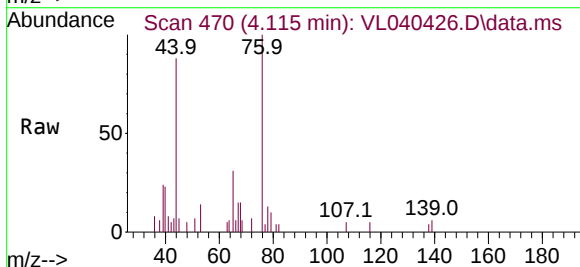
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

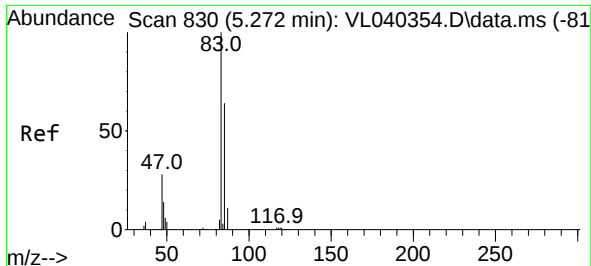
Tgt Ion: 57 Resp: 26992
Ion Ratio Lower Upper
57 100
41 0.0 74.8 112.2#
43 0.0 192.7 289.1#
56 122.8 42.6 64.0#



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 4.115 min Scan# 470
Delta R.T. -0.003 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 76 Resp: 5552
Ion Ratio Lower Upper
76 100
44 86.5 14.7 22.1#
78 25.6 7.7 11.5#





#29

Chloroform

Concen: 0.283 ppbv

RT: 5.263 min Scan# 81

Delta R.T. -0.009 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

Instrument :

MSVOA_L

ClientSampleId :

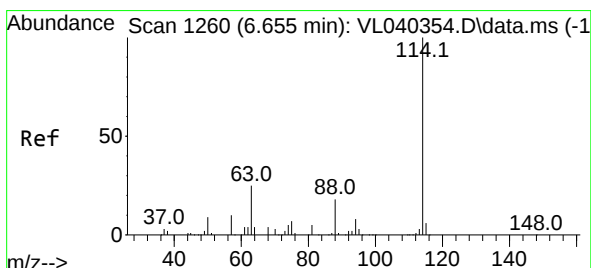
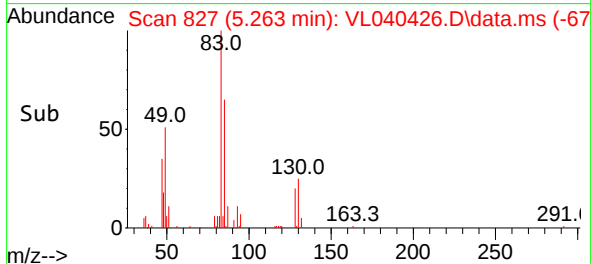
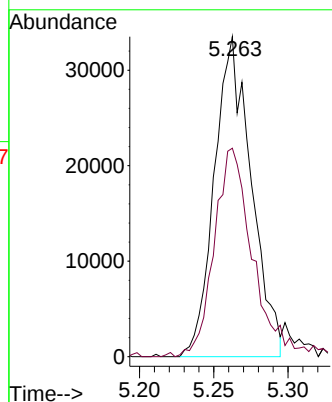
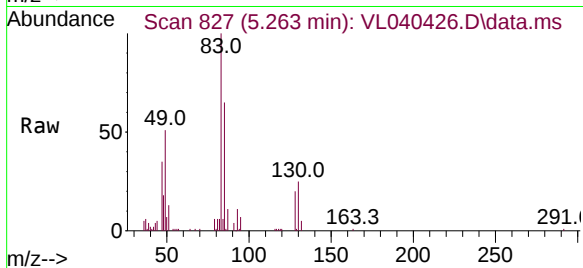
SV1DL

Tgt Ion: 83 Resp: 57834

Ion Ratio Lower Upper

83 100

85 64.6 51.0 76.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. -0.010 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

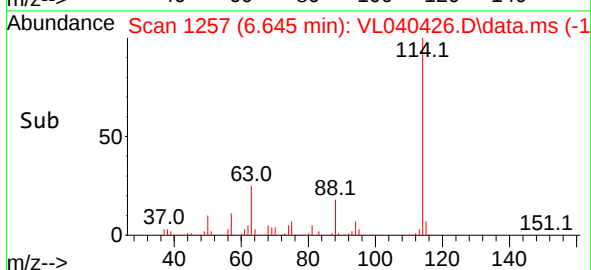
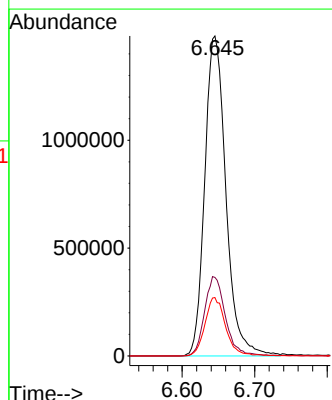
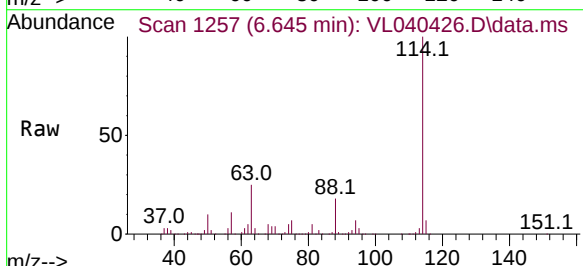
Tgt Ion: 114 Resp: 3012106

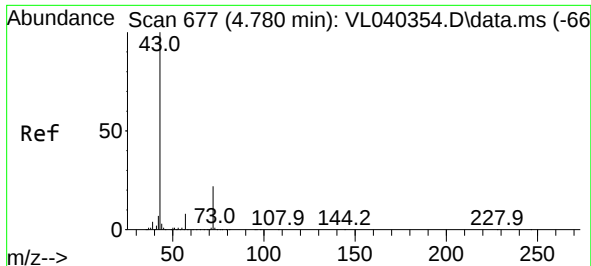
Ion Ratio Lower Upper

114 100

63 24.6 21.4 32.0

88 18.0 14.6 22.0

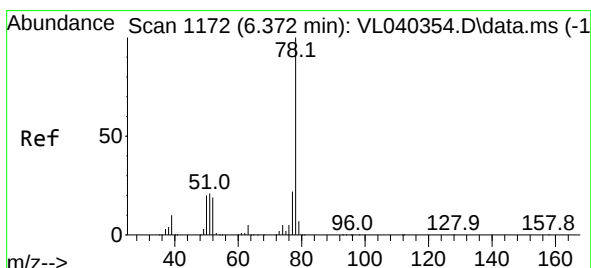
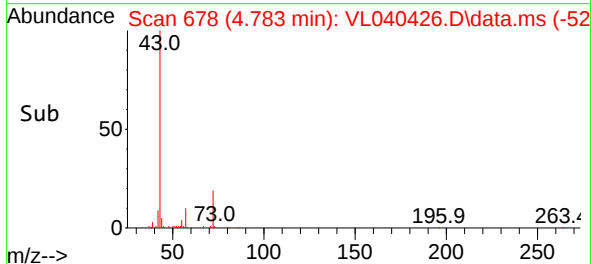
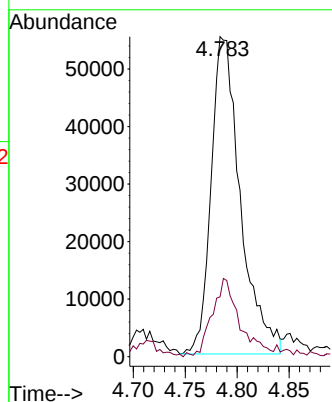
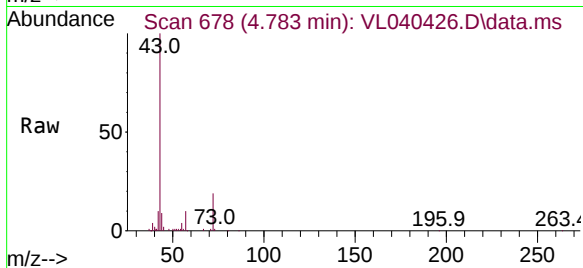




#34
2-Butanone
Concen: 0.667 ppbv
RT: 4.783 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

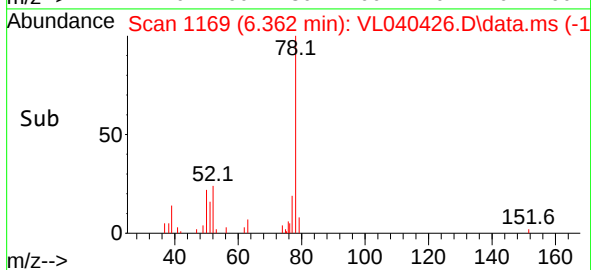
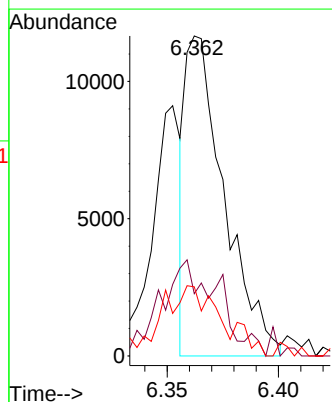
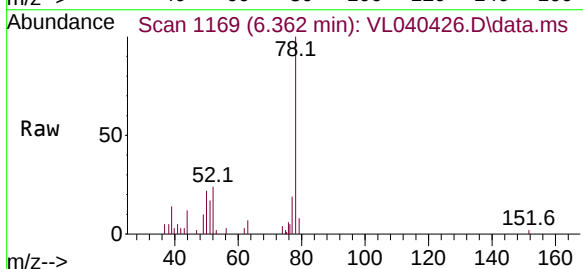
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

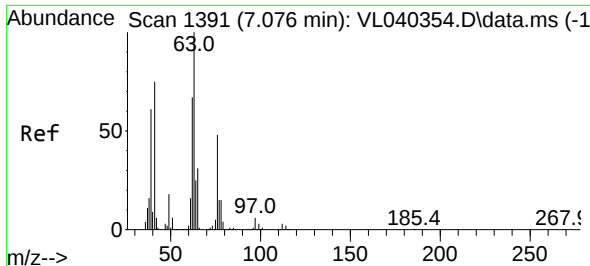
Tgt Ion: 43 Resp: 108346
Ion Ratio Lower Upper
43 100
72 25.7 18.4 27.6



#36
Benzene
Concen: 0.058 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.010 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 78 Resp: 14217
Ion Ratio Lower Upper
78 100
77 20.7 17.8 26.8
50 18.5 15.6 23.4





#39

1,2-Dichloropropane

Concen: 7.444 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.434 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

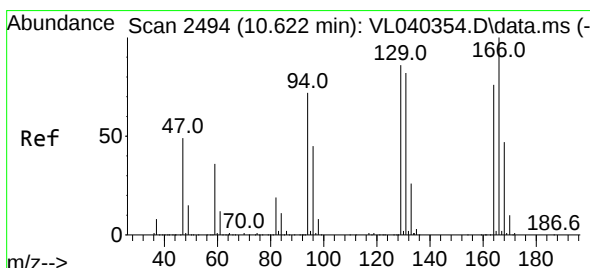
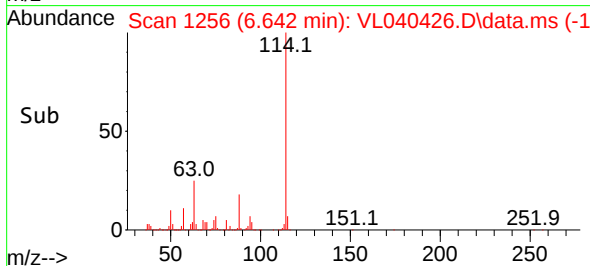
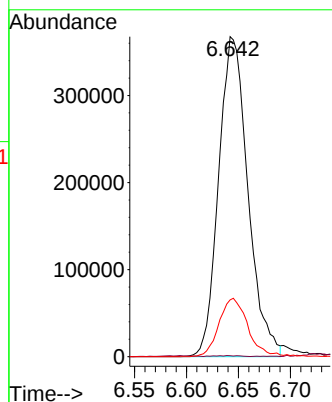
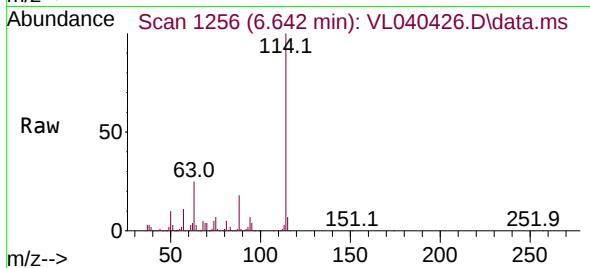
Tgt Ion: 63 Resp: 719761

Ion Ratio Lower Upper

63 100

41 0.2 59.6 89.4#

62 17.8 53.9 80.9#



#52

Tetrachloroethene

Concen: 0.048 ppbv

RT: 10.616 min Scan# 2492

Delta R.T. -0.006 min

Lab File: VL040426.D

Acq: 12 May 2023 20:11

Tgt Ion:164 Resp: 3686

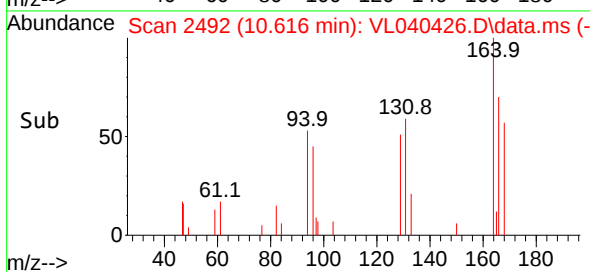
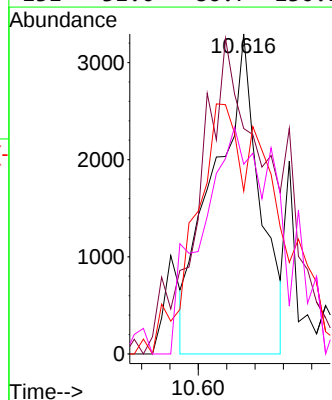
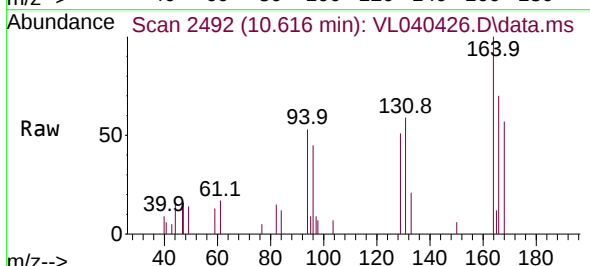
Ion Ratio Lower Upper

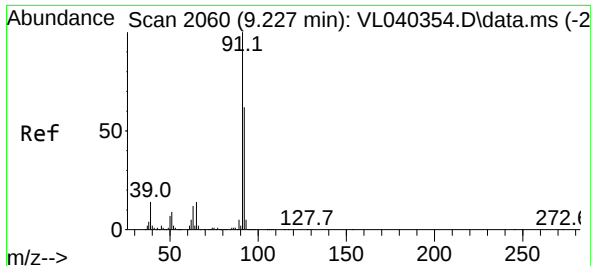
164 100

166 55.4 105.2 157.8#

129 46.3 90.3 135.5#

131 31.0 86.7 130.1#

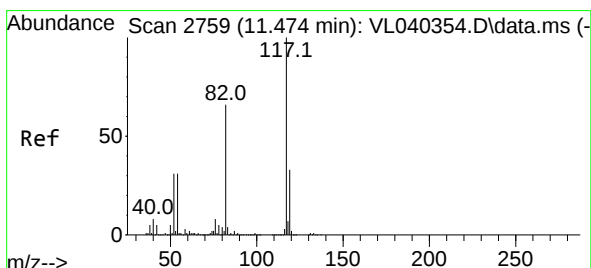
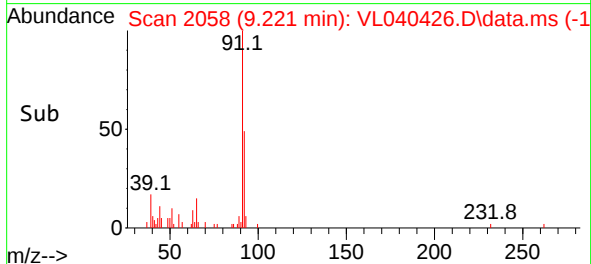
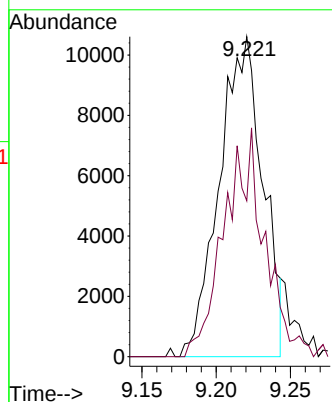
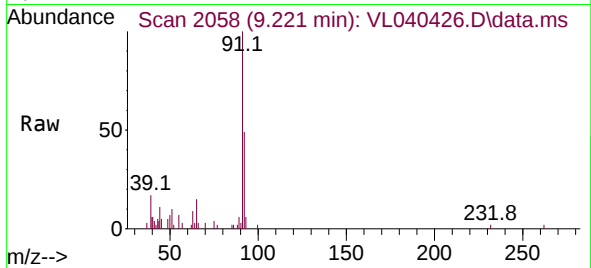




#53
Toluene
Concen: 0.083 ppbv
RT: 9.221 min Scan# 2060
Delta R.T. -0.006 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

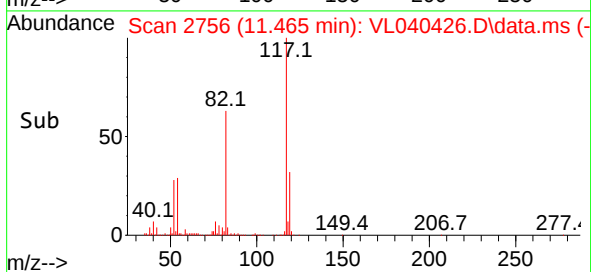
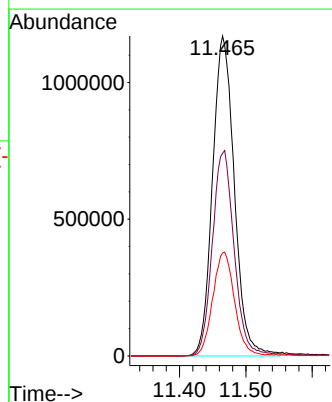
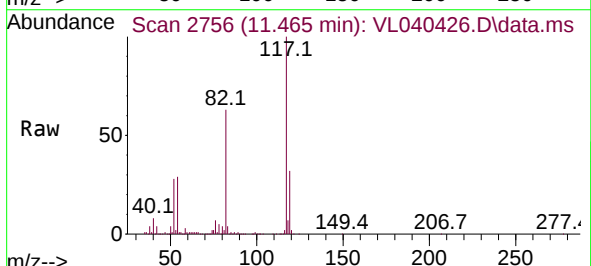
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

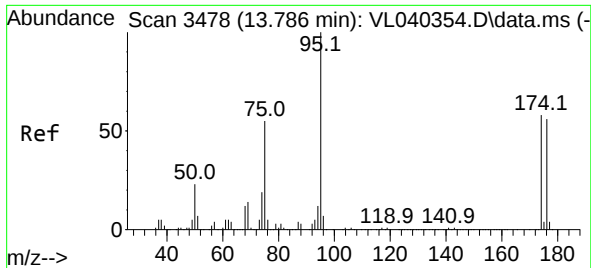
Tgt Ion: 91 Resp: 21628
Ion Ratio Lower Upper
91 100
92 65.8 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.009 min
Lab File: VL040426.D
Acq: 12 May 2023 20:11

Tgt Ion: 117 Resp: 2672181
Ion Ratio Lower Upper
117 100
82 65.0 52.5 78.7
119 32.9 24.3 36.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.156 ppbv
 RT: 13.780 min Scan# 34
 Delta R.T. -0.006 min
 Lab File: VL040426.D
 Acq: 12 May 2023 20:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 2023308
 Ion Ratio Lower Upper
 95 100
 174 63.0 47.2 70.8
 175 4.4 3.5 5.3

