

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040275.D
 Acq On : 13 Mar 2023 21:47
 Operator : SY/MD
 Sample : 01899-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 14 04:57:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Mar 14 04:52:39 2023
 Response via : Initial Calibration

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

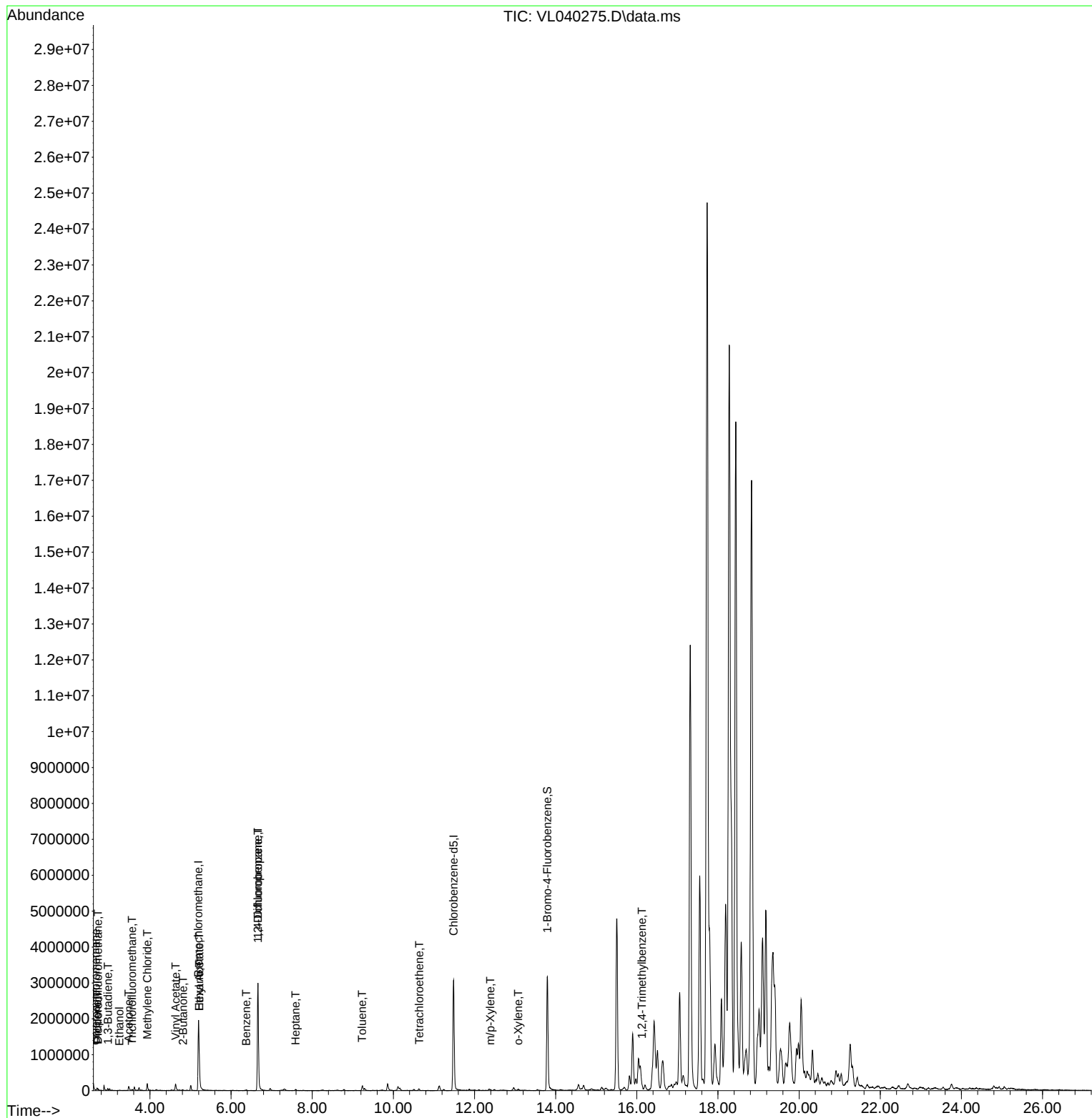
Internal Standards						
1) Bromochloromethane	5.195	49	886996	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2159286	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	1948681	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1565588	9.770	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.723	85	23674	0.143	ppbv	95
3) Chlorodifluoromethane	2.668	51	17774	0.168	ppbv #	89
9) Propene	2.700	41	19314	0.447	ppbv	88
10) Heptane	7.587	43	6025	0.059	ppbv #	13
11) Trichlorofluoromethane	3.562	101	14407	0.097	ppbv	99
13) Ethanol	3.250	45	5817	1.463	ppbv #	1
15) Acetone	3.475	43	119781	1.122	ppbv	96
16) 1,3-Butadiene	2.967	39	12990	0.266	ppbv #	26
20) Methylene Chloride	3.935	84	64478	1.160	ppbv	85
23) Vinyl Acetate	4.632	43	257505	7.946	ppbv	97
25) Ethyl Acetate	5.218	43	121777	0.613	ppbv #	78
26) Hexane	5.218	57	165239	1.939	ppbv #	34
34) 2-Butanone	4.816	43	17178	0.161	ppbv #	82
36) Benzene	6.372	78	5557	0.033	ppbv	96
39) 1,2-Dichloropropane	6.658	63	560500	8.574	ppbv #	26
52) Tetrachloroethene	10.639	164	4255	0.081	ppbv #	84
53) Toluene	9.230	91	91375	0.508	ppbv	100
59) m/p-Xylene	12.388	91	10265	0.049	ppbv #	33
60) o-Xylene	13.076	91	10679	0.053	ppbv #	50
74) 1,2,4-Trimethylbenzene	16.124	105	72313	0.317	ppbv #	61

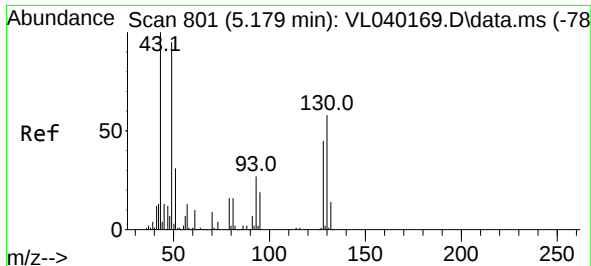
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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Response via : Initial Calibration

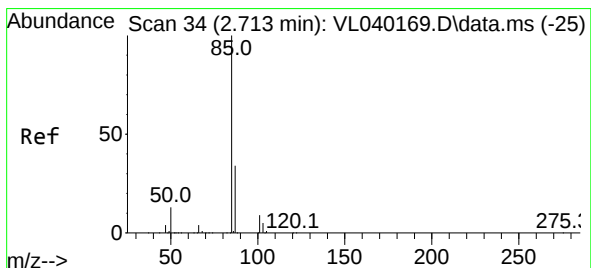
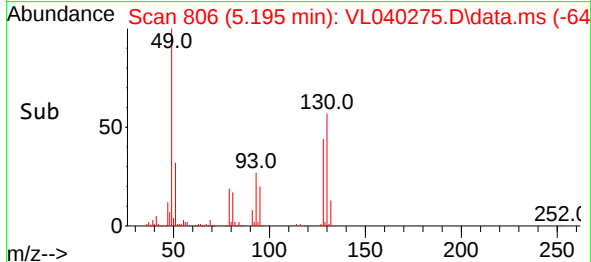
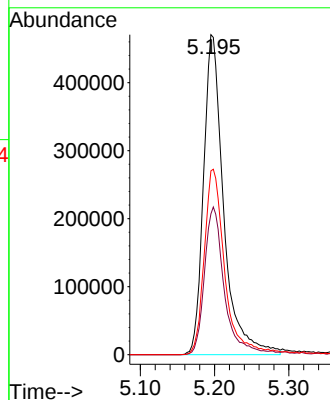
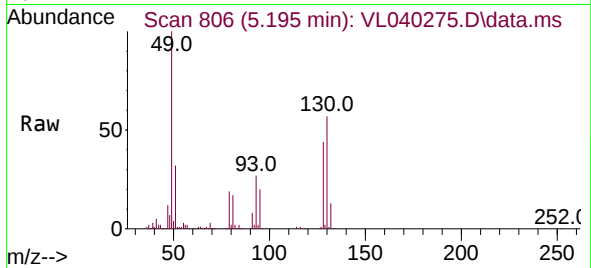




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL040275.D
 Acq: 13 Mar 2023 21:47

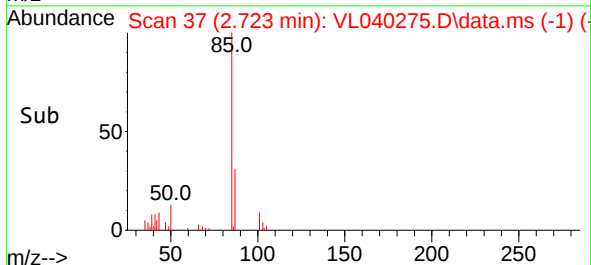
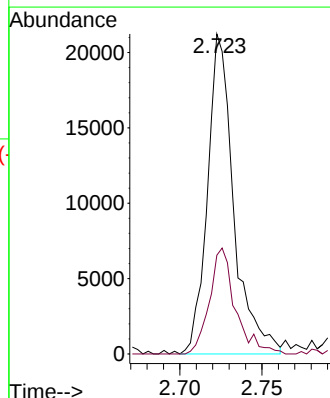
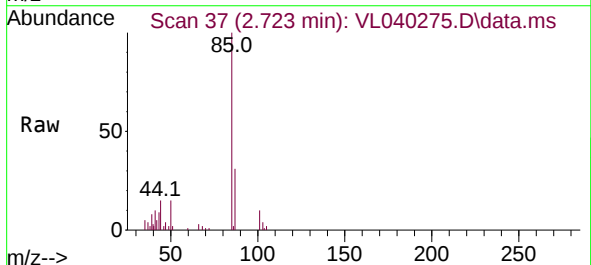
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

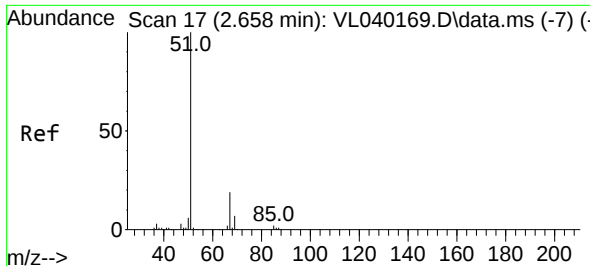
Tgt Ion: 49 Resp: 886996
 Ion Ratio Lower Upper
 49 100
 128 46.6 24.1 72.3
 130 60.6 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.143 ppbv
 RT: 2.723 min Scan# 37
 Delta R.T. 0.010 min
 Lab File: VL040275.D
 Acq: 13 Mar 2023 21:47

Tgt Ion: 85 Resp: 23674
 Ion Ratio Lower Upper
 85 100
 87 30.8 27.0 40.6

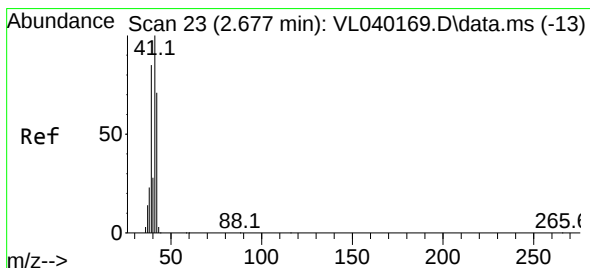
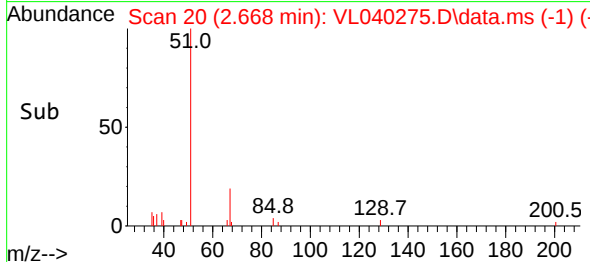
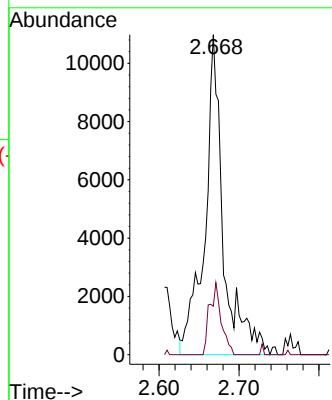
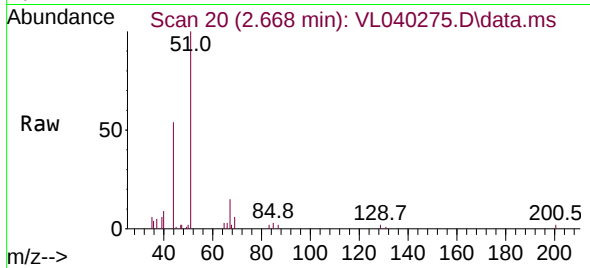




#3
Chlorodifluoromethane
Concen: 0.168 ppbv
RT: 2.668 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

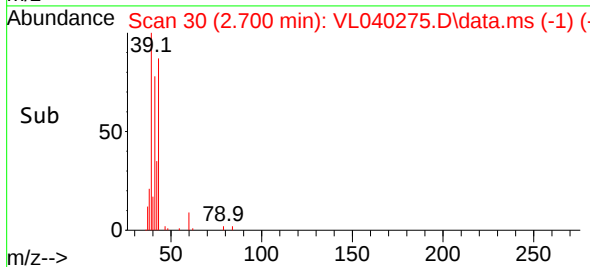
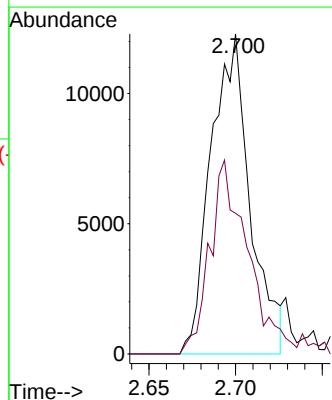
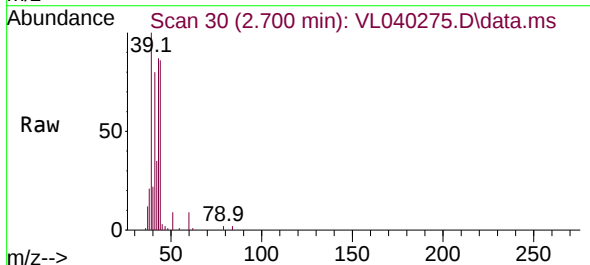
Instrument :
MSVOA_L
ClientSampleId :
SV1

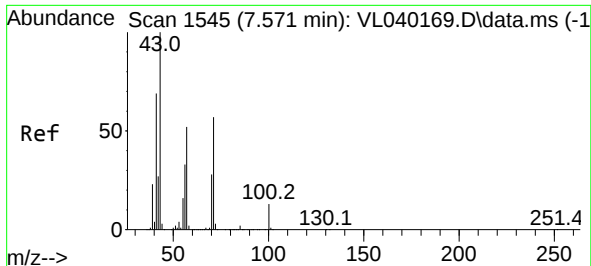
Tgt Ion: 51 Resp: 17774
Ion Ratio Lower Upper
51 100
67 14.1 15.4 23.2#



#9
Propene
Concen: 0.447 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.023 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 41 Resp: 19314
Ion Ratio Lower Upper
41 100
42 61.1 56.9 85.3

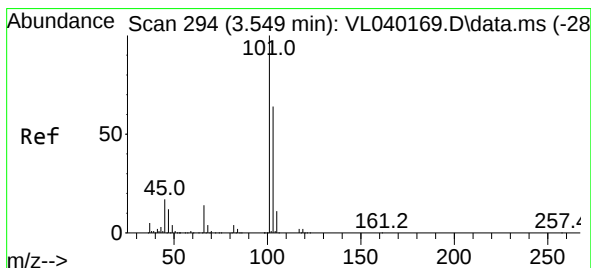
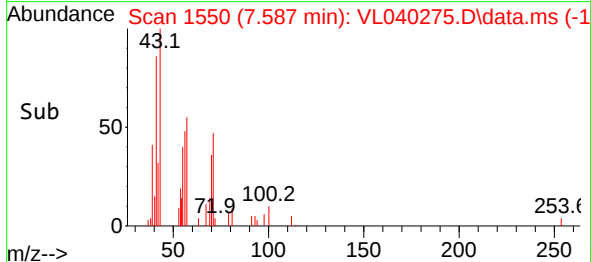
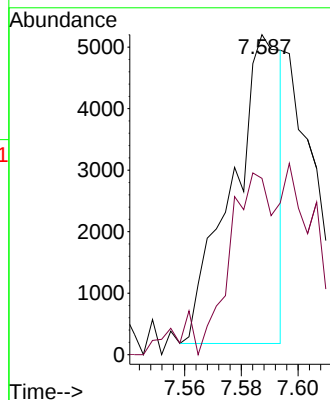
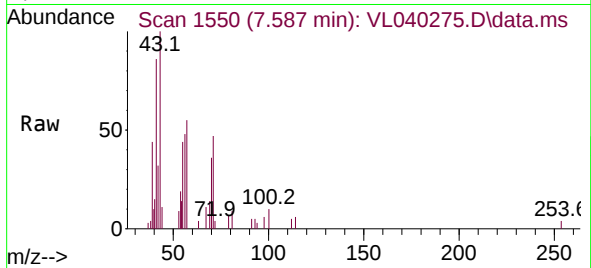




#10
Heptane
Concen: 0.059 ppbv
RT: 7.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

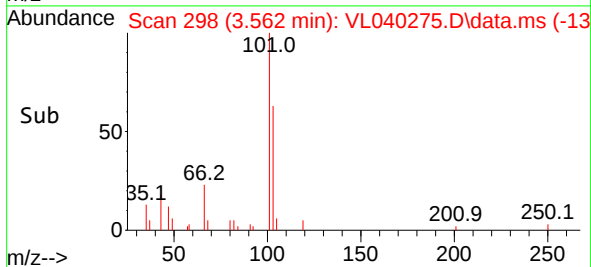
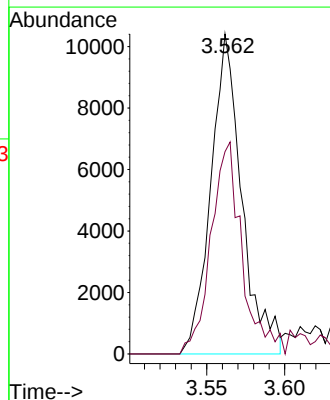
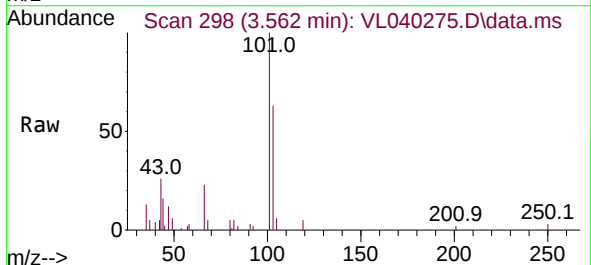
Instrument :
MSVOA_L
ClientSampleId :
SV1

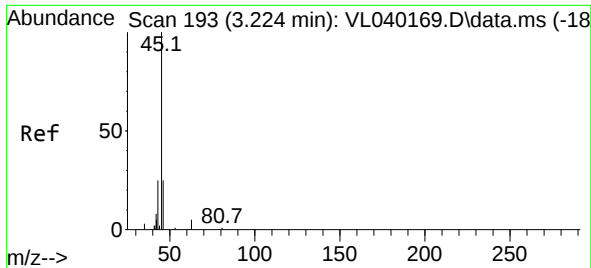
Tgt Ion: 43 Resp: 6025
Ion Ratio Lower Upper
43 100
57 112.5 41.4 62.2#



#11
Trichlorofluoromethane
Concen: 0.097 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.010 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 101 Resp: 14407
Ion Ratio Lower Upper
101 100
103 63.2 51.0 76.6

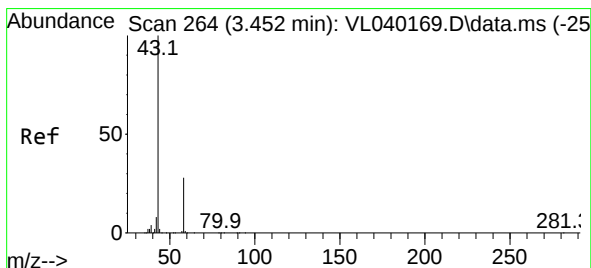
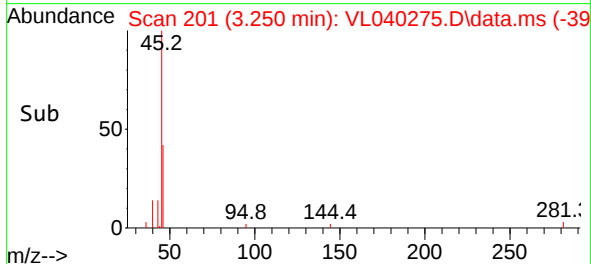
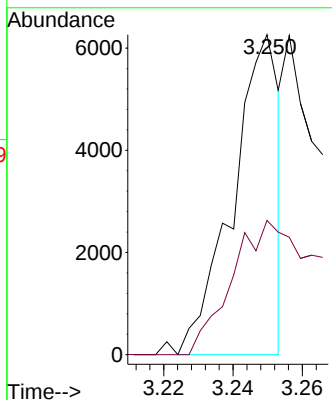
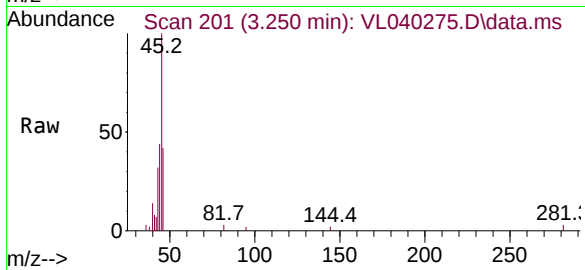




#13
Ethanol
Concen: 1.463 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

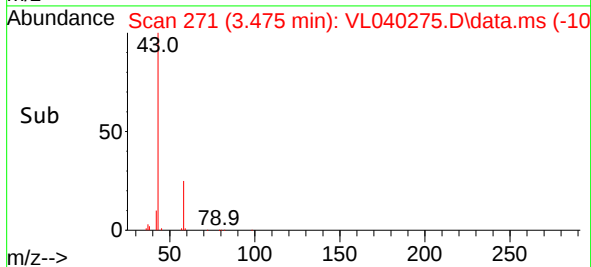
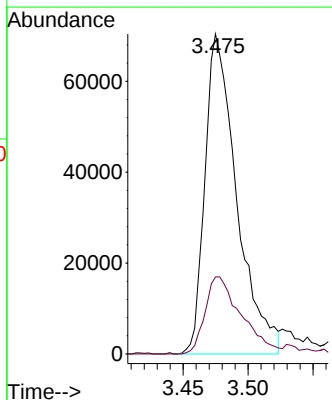
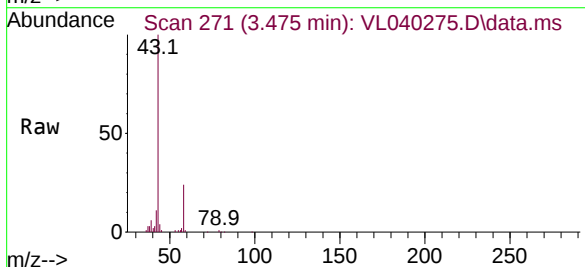
Instrument :
MSVOA_L
ClientSampleId :
SV1

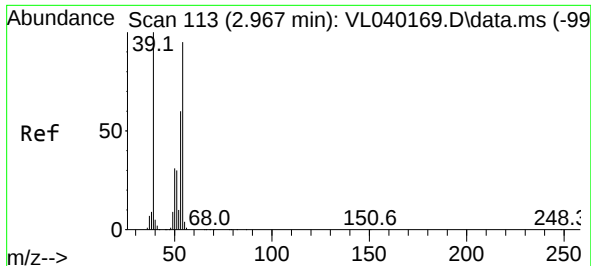
Tgt Ion: 45 Resp: 5817
Ion Ratio Lower Upper
45 100
46 106.8 13.3 53.1#



#15
Acetone
Concen: 1.122 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.019 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 43 Resp: 119781
Ion Ratio Lower Upper
43 100
58 30.1 22.4 33.6

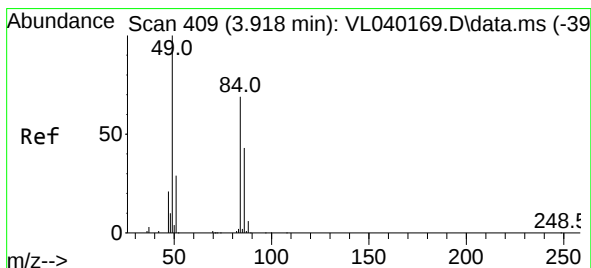
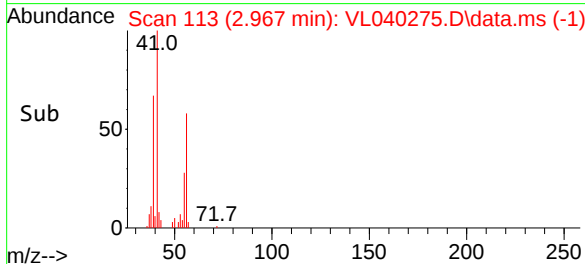
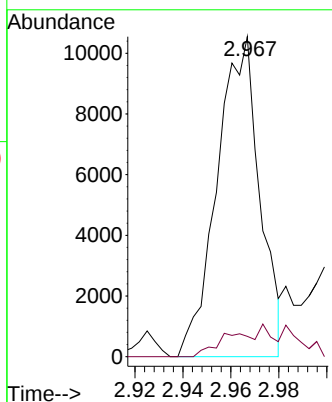
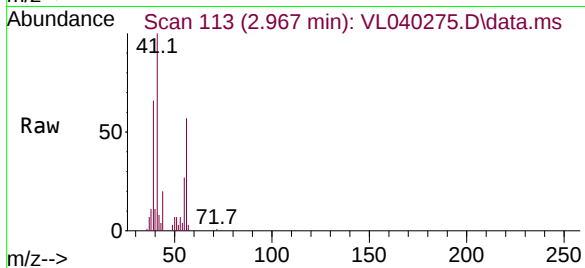




#16
1,3-Butadiene
Concen: 0.266 ppbv
RT: 2.967 min Scan# 113
Delta R.T. -0.003 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

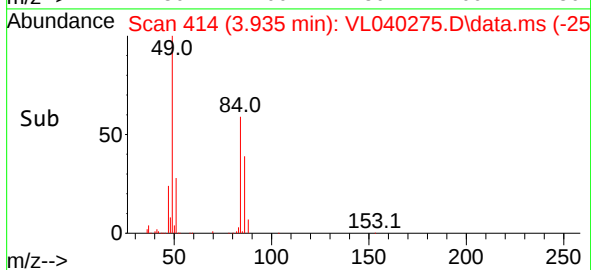
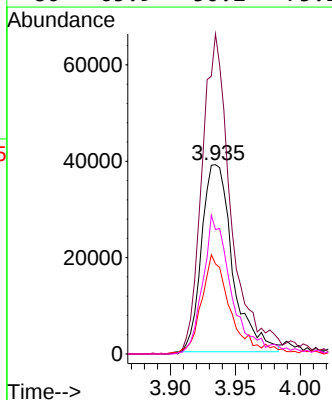
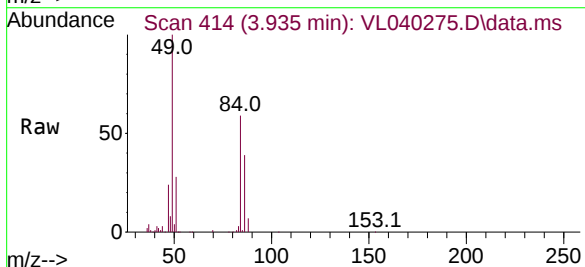
Instrument :
MSVOA_L
ClientSampleId :
SV1

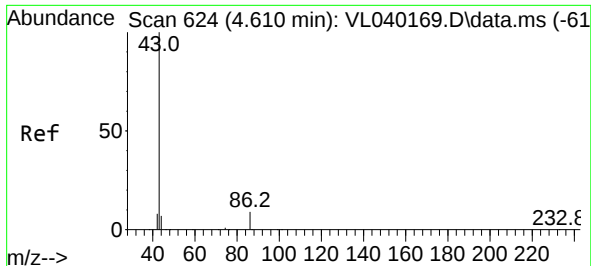
Tgt Ion: 39 Resp: 12990
Ion Ratio Lower Upper
39 100
54 16.2 66.7 100.1#



#20
Methylene Chloride
Concen: 1.160 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 84 Resp: 64478
Ion Ratio Lower Upper
84 100
49 171.2 115.5 173.3
51 47.4 33.1 49.7
86 65.9 50.2 75.2



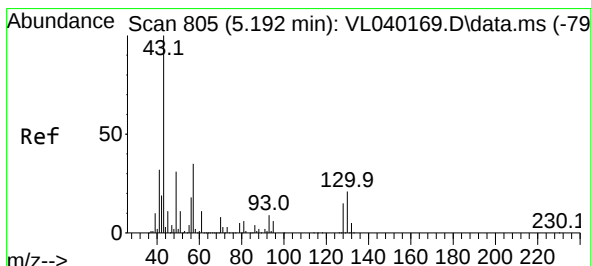
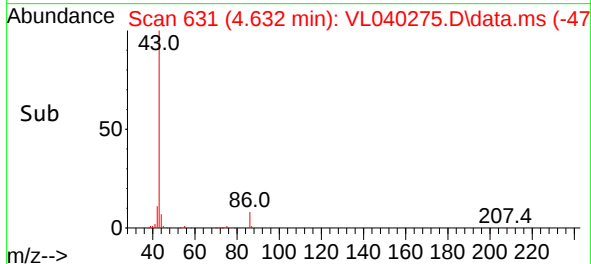
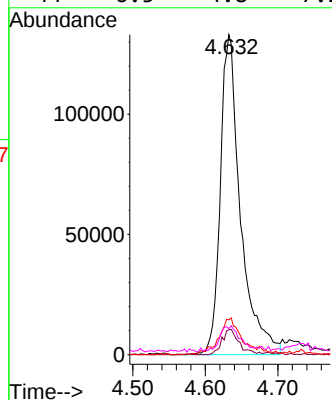
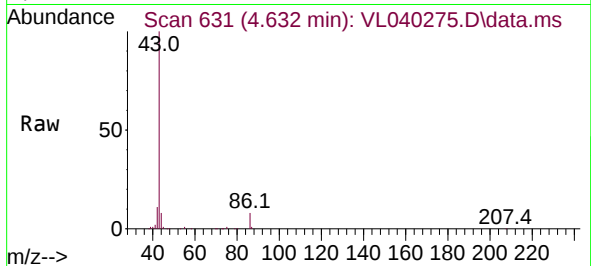


#23
 Vinyl Acetate
 Concen: 7.946 ppbv
 RT: 4.632 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL040275.D
 Acq: 13 Mar 2023 21:47

Instrument :
 MSVOA_L
 ClientSampleId :
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Tgt Ion: 43 Resp: 257505

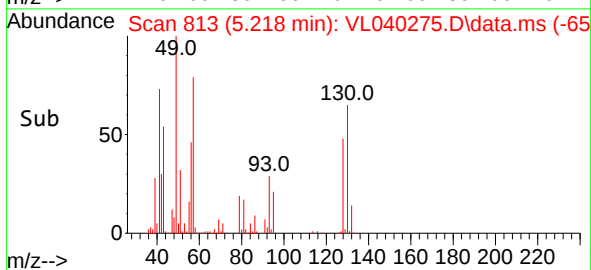
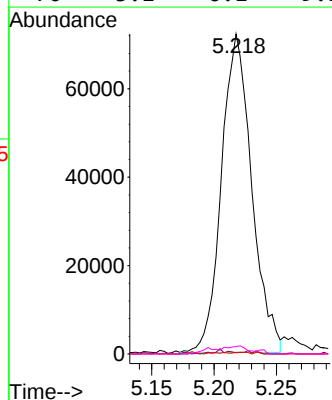
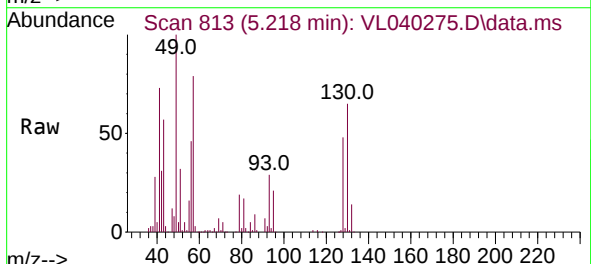
Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.6	8.4
42	10.7	7.6	11.4
44	6.5	4.8	7.2

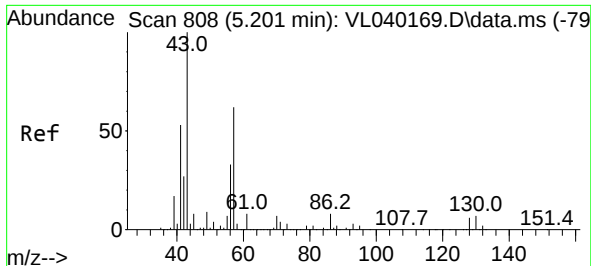


#25
 Ethyl Acetate
 Concen: 0.613 ppbv
 RT: 5.218 min Scan# 813
 Delta R.T. 0.019 min
 Lab File: VL040275.D
 Acq: 13 Mar 2023 21:47

Tgt Ion: 43 Resp: 121777

Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.3	12.5#
61	0.8	8.4	12.6#
70	3.1	6.1	9.1#

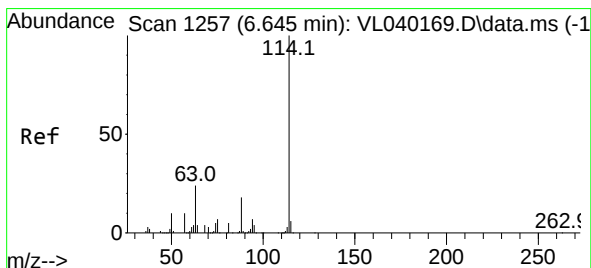
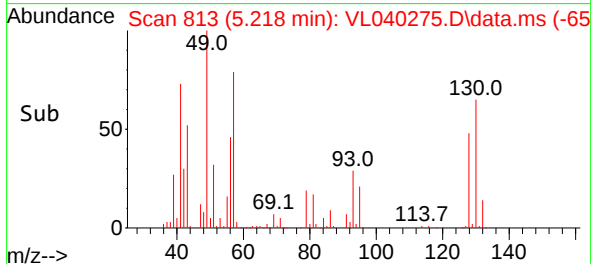
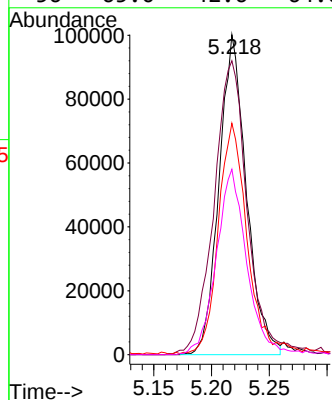
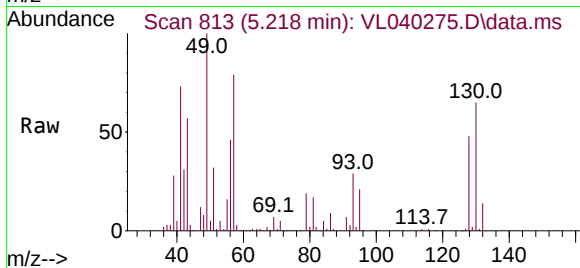




#26
Hexane
Concen: 1.939 ppbv
RT: 5.218 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

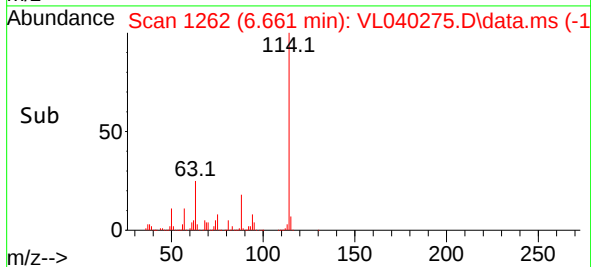
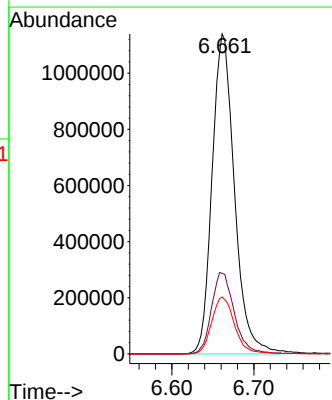
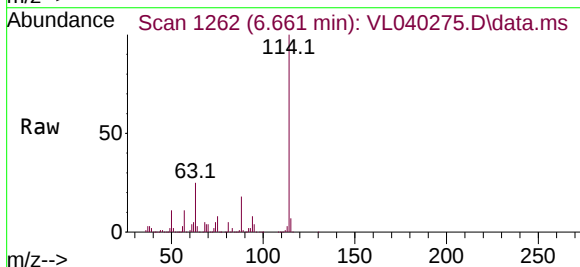
Instrument :
MSVOA_L
ClientSampleId :
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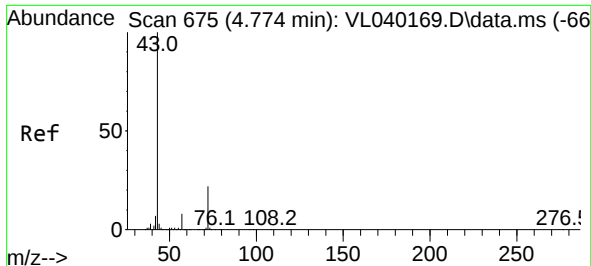
Tgt Ion: 57 Resp: 165239
Ion Ratio Lower Upper
57 100
41 113.7 74.3 111.5#
43 80.3 193.0 289.4#
56 65.0 42.6 64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. 0.007 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 114 Resp: 2159286
Ion Ratio Lower Upper
114 100
63 26.3 20.4 30.6
88 18.3 14.3 21.5

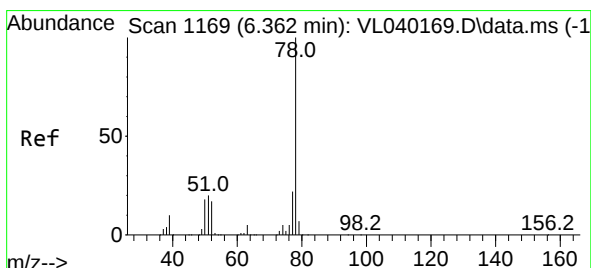
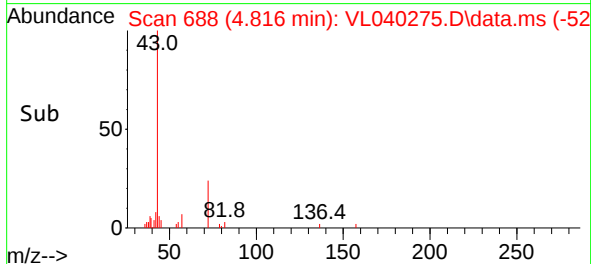
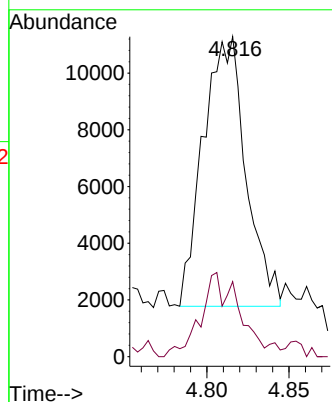
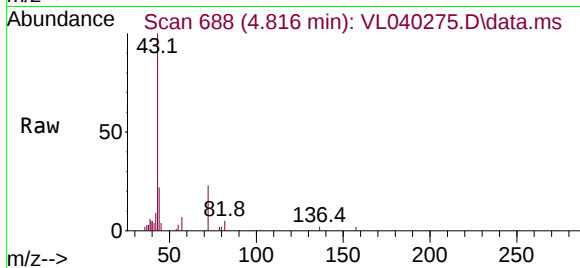




#34
2-Butanone
Concen: 0.161 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.039 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

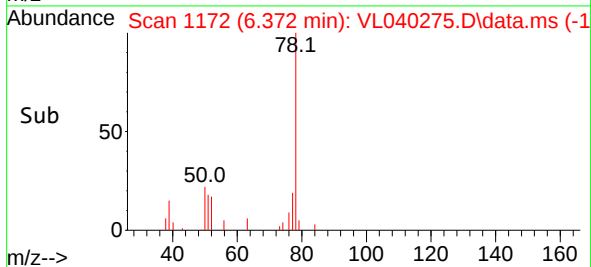
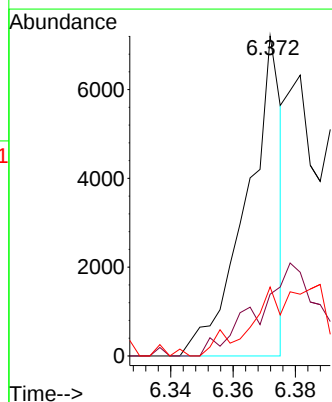
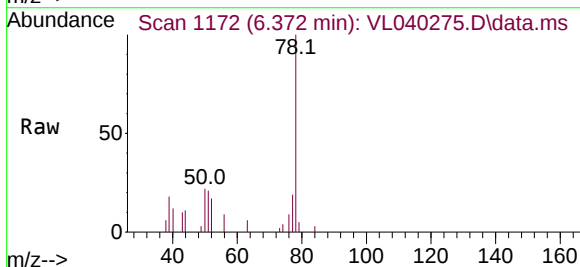
Instrument :
MSVOA_L
ClientSampleId :
SV1

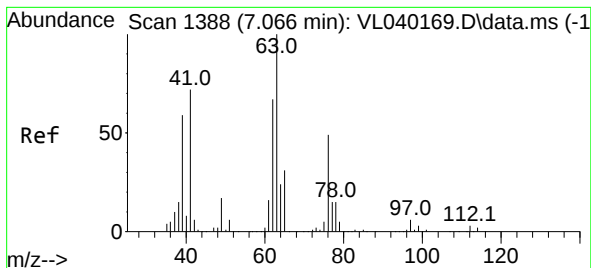
Tgt Ion: 43 Resp: 17178
Ion Ratio Lower Upper
43 100
72 31.1 17.8 26.8#



#36
Benzene
Concen: 0.033 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.003 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 78 Resp: 5557
Ion Ratio Lower Upper
78 100
77 19.3 17.5 26.3
50 19.4 14.6 22.0





#39

1,2-Dichloropropane

Concen: 8.574 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.415 min

Lab File: VL040275.D

Acq: 13 Mar 2023 21:47

Instrument :

MSVOA_L

ClientSampleId :

SV1

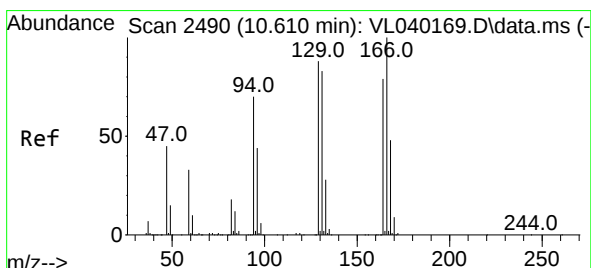
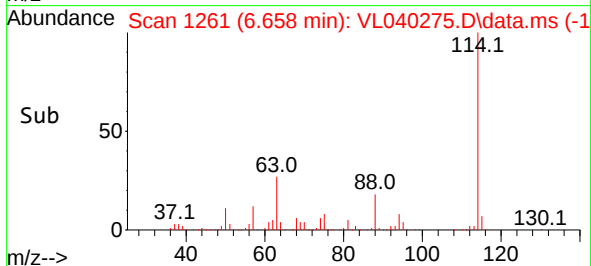
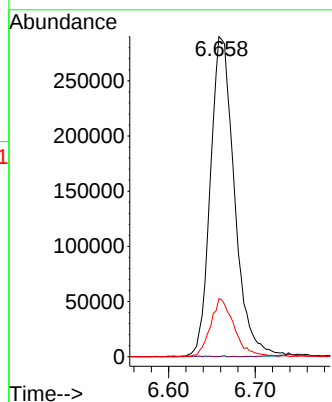
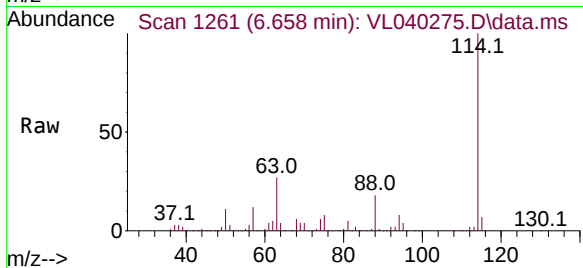
Tgt Ion: 63 Resp: 560500

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 18.1 54.0 81.0#



#52

Tetrachloroethene

Concen: 0.081 ppbv

RT: 10.639 min Scan# 2499

Delta R.T. 0.016 min

Lab File: VL040275.D

Acq: 13 Mar 2023 21:47

Tgt Ion:164 Resp: 4255

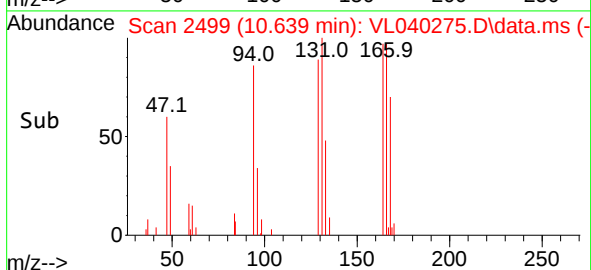
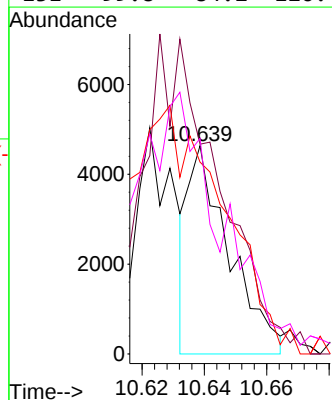
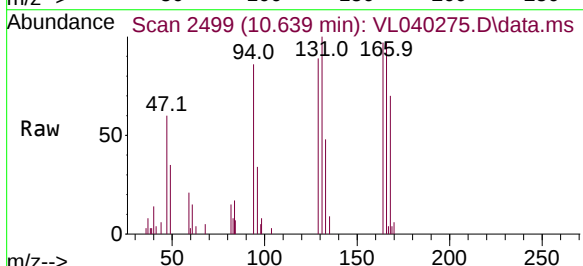
Ion Ratio Lower Upper

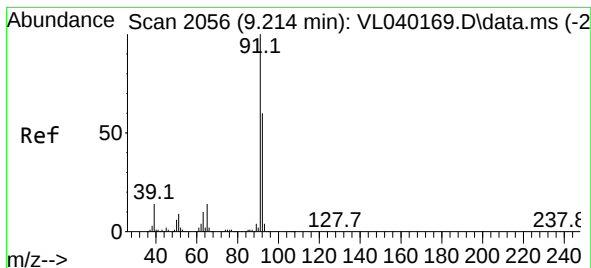
164 100

166 96.2 101.5 152.3#

129 95.8 89.0 133.4

131 99.8 84.2 126.4





#53

Toluene

Concen: 0.508 ppbv

RT: 9.230 min Scan# 2061

Delta R.T. 0.007 min

Lab File: VL040275.D

Acq: 13 Mar 2023 21:47

Instrument :

MSVOA_L

ClientSampleId :

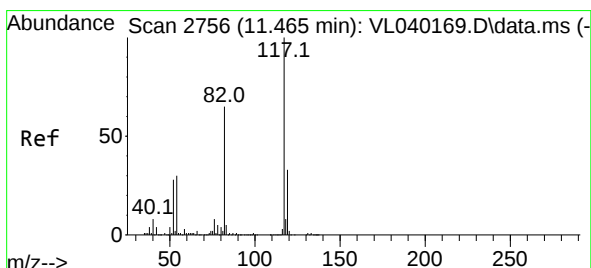
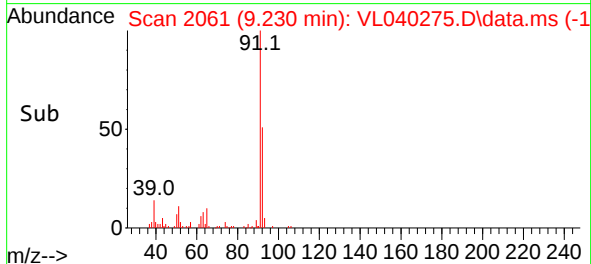
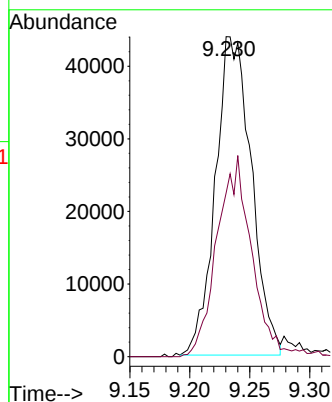
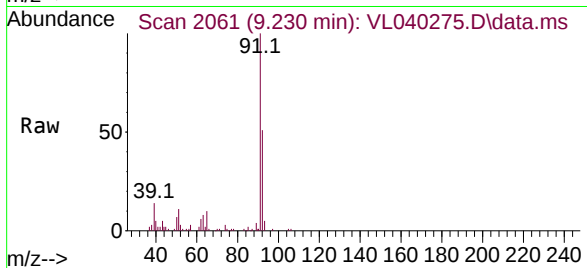
SV1

Tgt Ion: 91 Resp: 91375

Ion Ratio Lower Upper

91 100

92 61.4 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.484 min Scan# 2762

Delta R.T. 0.010 min

Lab File: VL040275.D

Acq: 13 Mar 2023 21:47

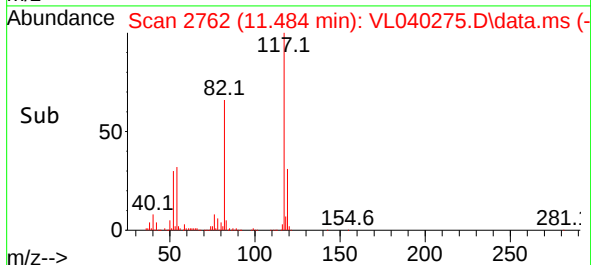
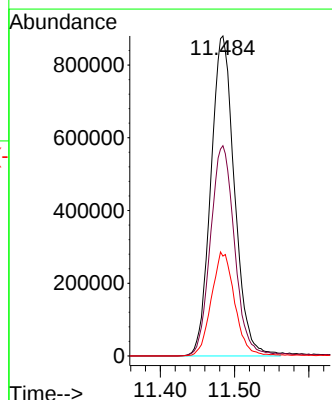
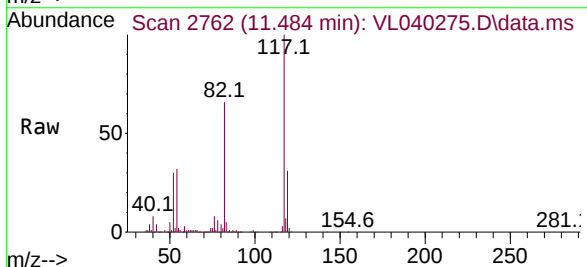
Tgt Ion: 117 Resp: 1948681

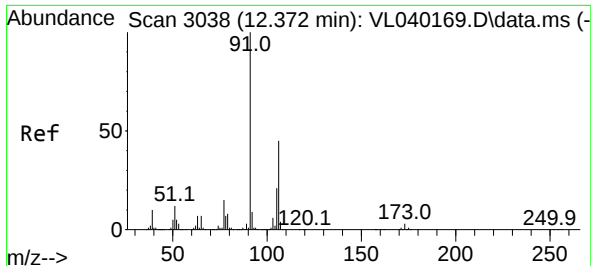
Ion Ratio Lower Upper

117 100

82 67.5 53.3 79.9

119 32.5 24.6 37.0

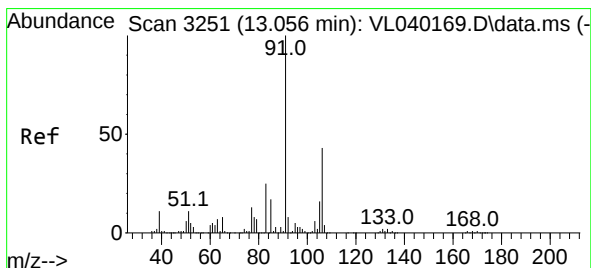
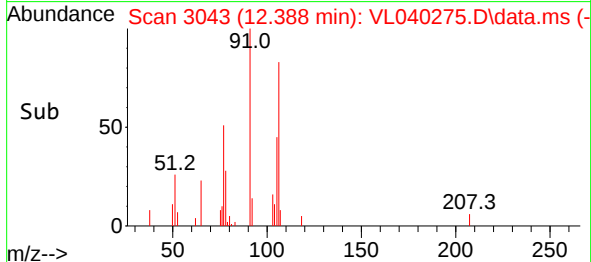
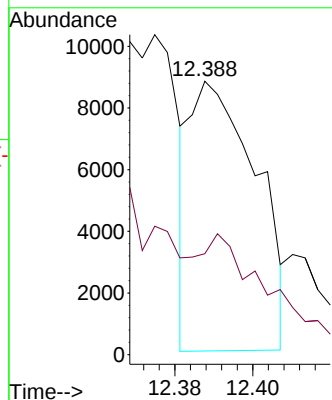
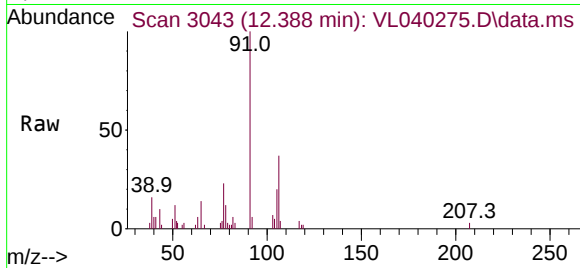




#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 12.388 min Scan# 3038
Delta R.T. 0.007 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

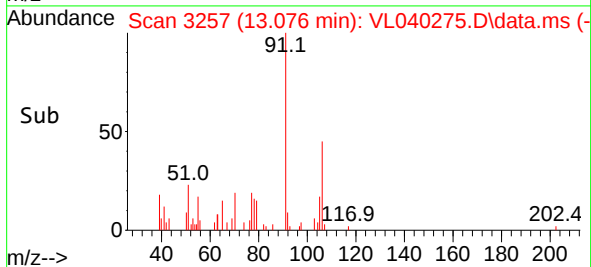
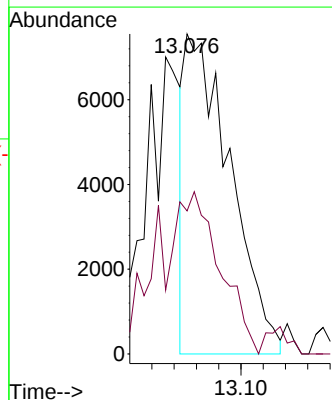
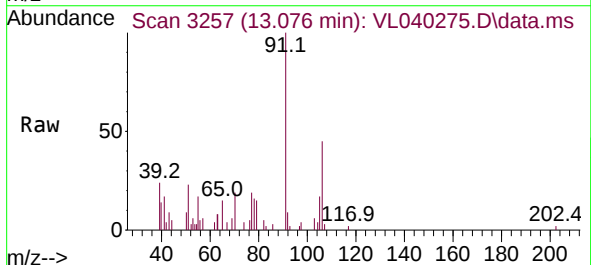
Instrument :
MSVOA_L
ClientSampleId :
SV1

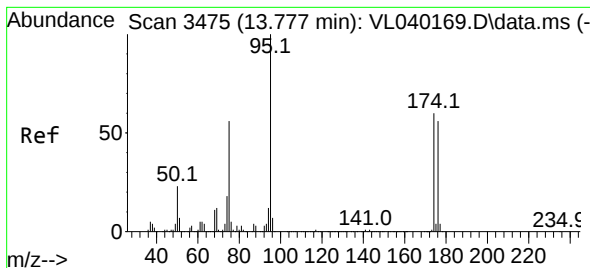
Tgt Ion: 91 Resp: 10265
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#



#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.076 min Scan# 3257
Delta R.T. 0.010 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 91 Resp: 10679
Ion Ratio Lower Upper
91 100
106 75.7 21.6 65.0#

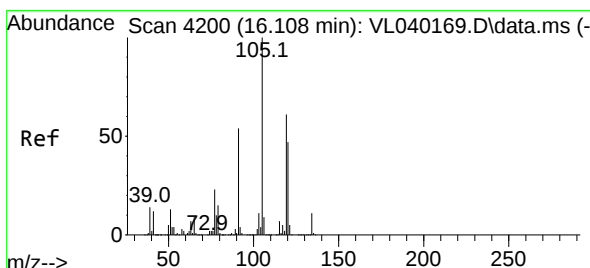
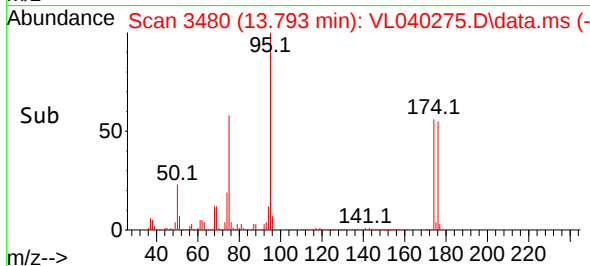
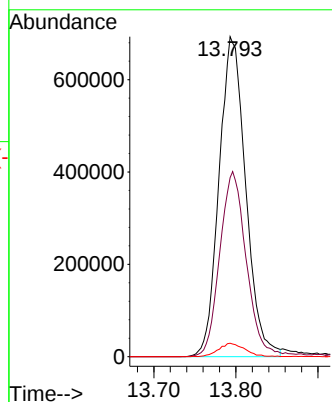
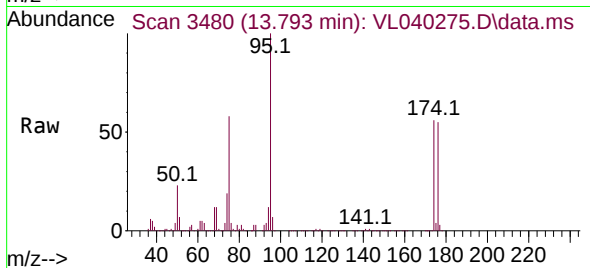




#68
1-Bromo-4-Fluorobenzene
Concen: 9.770 ppbv
RT: 13.793 min Scan# 3475
Delta R.T. 0.010 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 1565588
Ion Ratio Lower Upper
95 100
174 59.1 48.2 72.2
175 4.2 3.4 5.2



#74
1,2,4-Trimethylbenzene
Concen: 0.317 ppbv
RT: 16.124 min Scan# 4205
Delta R.T. 0.006 min
Lab File: VL040275.D
Acq: 13 Mar 2023 21:47

Tgt Ion: 105 Resp: 72313
Ion Ratio Lower Upper
105 100
120 29.4 37.9 56.9#
91 10.0 43.7 65.5#
77 19.4 18.3 27.5

