

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
 Data File : VL040324.D
 Acq On : 10 Apr 2023 14:27
 Operator : SY/MD
 Sample : 02229-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Apr 11 02:07:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

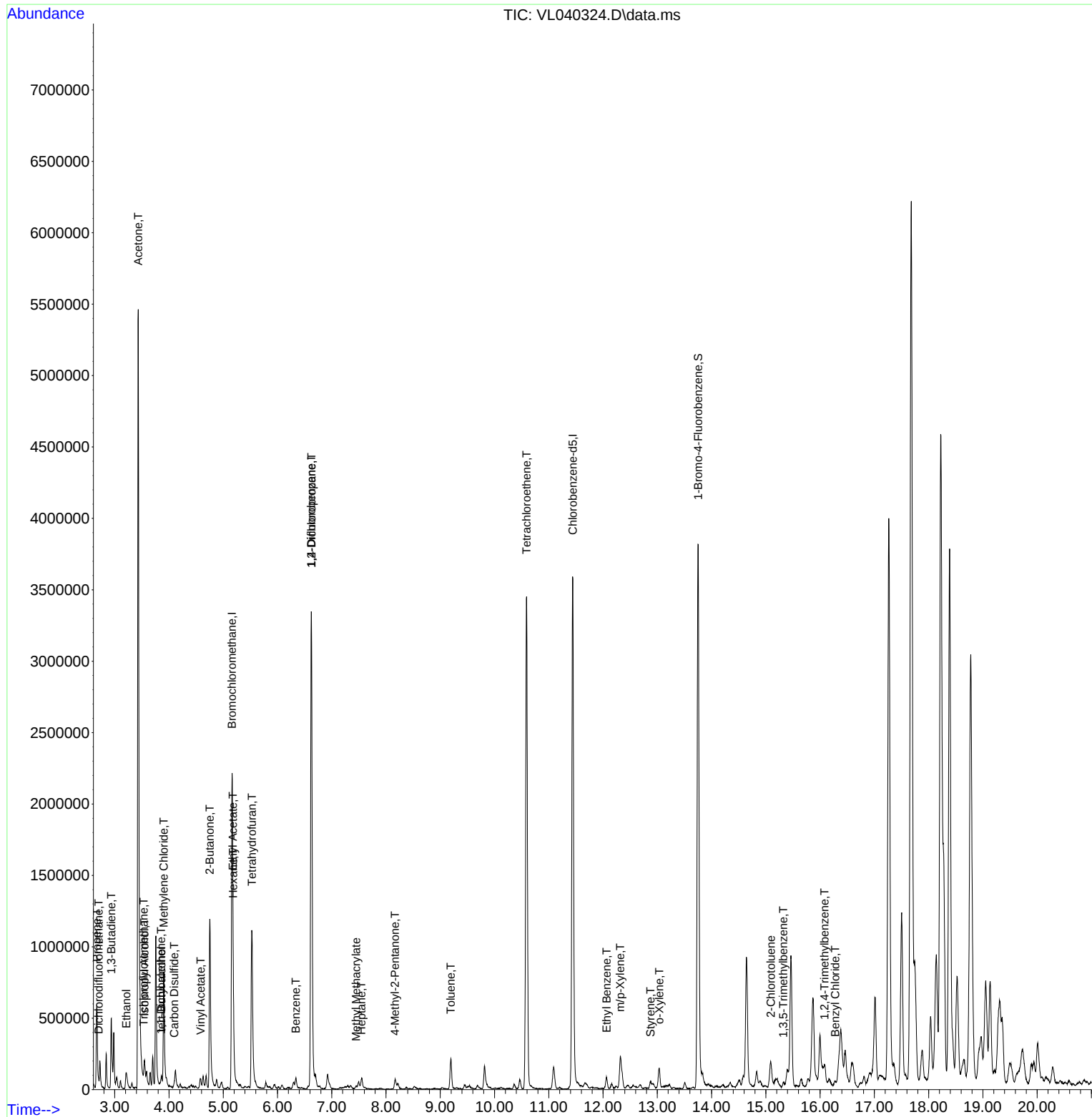
Internal Standards							
1) Bromochloromethane		5.163	49	976671	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene		6.623	114	2428816	10.000	ppbv	-0.03
55) Chlorobenzene-d5		11.442	117	2255176	10.000	ppbv	-0.04
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.754	95	1906355	10.094	ppbv	-0.03
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.900%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		2.703	85	17149	0.089	ppbv	96
9) Propene		2.668	41	227547	4.836	ppbv	88
10) Heptane		7.545	43	24208	0.214	ppbv	90
11) Trichlorofluoromethane		3.533	101	9771	0.056	ppbv #	76
13) Ethanol		3.214	45	147174	42.650	ppbv	99
15) Acetone		3.433	43	5589829	47.012	ppbv	95
16) 1,3-Butadiene		2.935	39	163549	3.026	ppbv #	36
17) tert-Butyl alcohol		3.861	59	34977	0.310	ppbv #	89
18) 1,1-Dichloroethene		3.854	96	2378	0.043	ppbv #	36
19) Isopropyl Alcohol		3.549	45	148652	2.610	ppbv #	90
20) Methylene Chloride		3.902	84	272811	5.454	ppbv	99
23) Vinyl Acetate		4.584	43	14211	0.430	ppbv #	47
25) Ethyl Acetate		5.179	43	119949	0.539	ppbv #	83
26) Hexane		5.182	57	149855	1.640	ppbv #	40
27) Carbon Disulfide		4.095	76	32123	0.252	ppbv #	90
34) 2-Butanone		4.751	43	1397193	11.656	ppbv	100
36) Benzene		6.340	78	52593	0.284	ppbv	99
39) 1,2-Dichloropropane		6.626	63	618924	8.523	ppbv #	24
41) Tetrahydrofuran		5.526	42	626607	9.057	ppbv	99
43) Methyl Methacrylate		7.449	69	4485	0.065	ppbv #	20
50) 4-Methyl-2-Pentanone		8.163	43	20915	0.113	ppbv #	26
52) Tetrachloroethene		10.587	164	803076	14.341	ppbv	93
53) Toluene		9.195	91	155601	0.802	ppbv	98
58) Ethyl Benzene		12.063	91	46871	0.183	ppbv	95
59) m/p-Xylene		12.317	91	222332	0.945	ppbv	95
60) o-Xylene		13.037	91	110776	0.493	ppbv	99
61) Styrene		12.873	104	20665	0.181	ppbv #	84
66) Benzyl Chloride		16.278	91	716	0.040	ppbv #	62
71) 2-Chlorotoluene		15.092	91	8802	0.036	ppbv	96
73) 1,3,5-Trimethylbenzene		15.323	105	12138	0.055	ppbv #	63
74) 1,2,4-Trimethylbenzene		16.082	105	53847	0.212	ppbv #	68

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

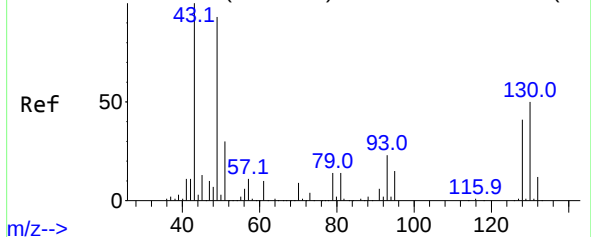
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041023\
Data File : VL040324.D
Acq On : 10 Apr 2023 14:27
Operator : SY/MD
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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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SV-1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

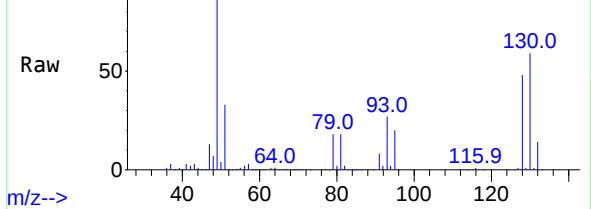


Abundance Scan 804 (5.189 min): VL040279.D\data.ms (-78)



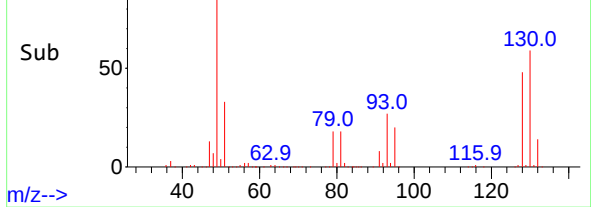
m/z-->

Abundance Scan 796 (5.163 min): VL040324.D\data.ms



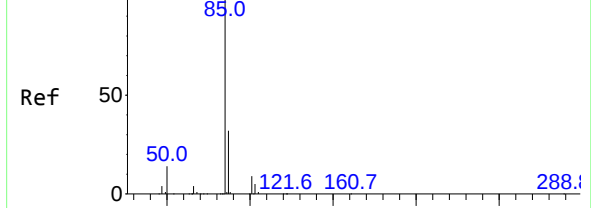
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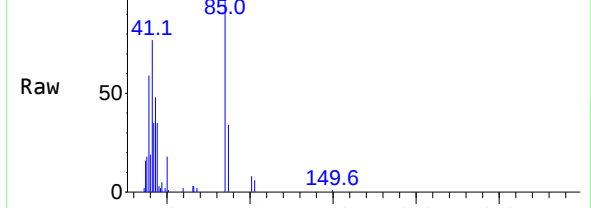
m/z-->

Abundance Scan 36 (2.719 min): VL040279.D\data.ms (-28)



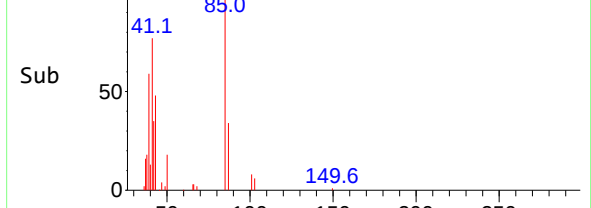
m/z-->

Abundance Scan 31 (2.703 min): VL040324.D\data.ms



m/z-->

Abundance Scan 31 (2.703 min): VL040324.D\data.ms (-1)



m/z-->

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.163 min Scan# 79

Delta R.T. -0.026 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 49 Resp: 976671

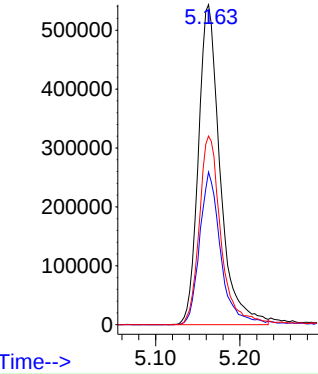
Ion Ratio Lower Upper

49 100

128 47.0 22.4 67.3

130 60.1 28.7 86.1

Abundance



Time-->

#2

Dichlorodifluoromethane

Concen: 0.089 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.016 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

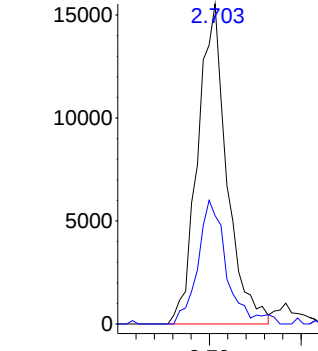
Tgt Ion: 85 Resp: 17149

Ion Ratio Lower Upper

85 100

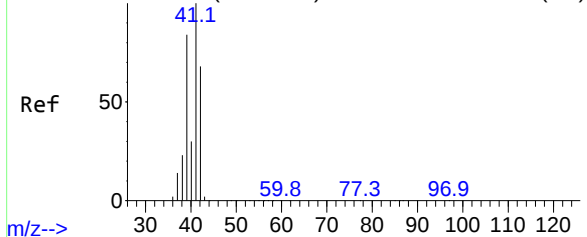
87 33.9 25.5 38.3

Abundance



Time-->

Abundance Scan 25 (2.684 min): VL040279.D\data.ms (-15)

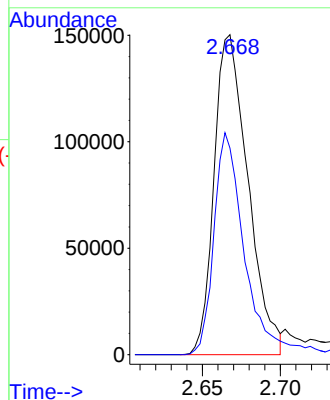
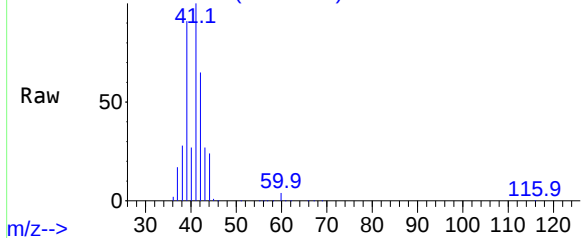


#9
Propene
Concen: 4.836 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.016 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

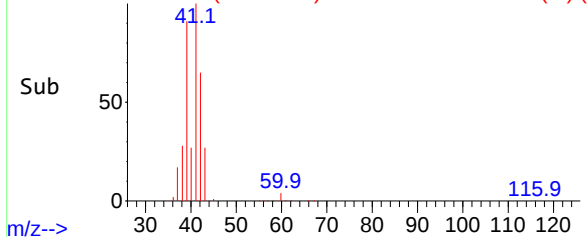
Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 41 Resp: 227547
Ion Ratio Lower Upper
41 100
42 63.9 59.0 88.4

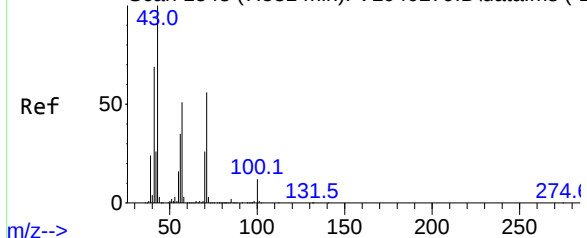
Abundance Scan 20 (2.668 min): VL040324.D\data.ms



Abundance Scan 20 (2.668 min): VL040324.D\data.ms (-1)



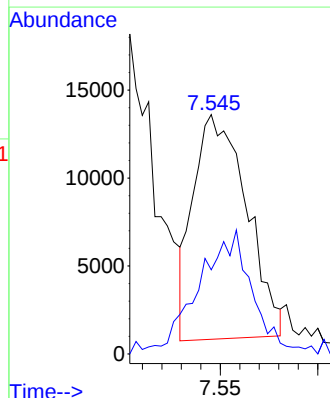
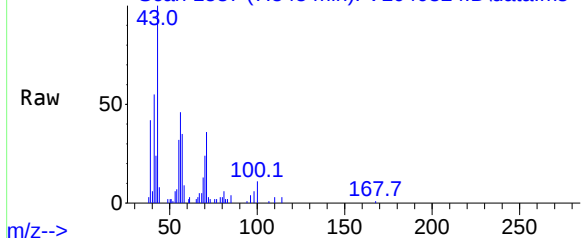
Abundance Scan 1548 (7.581 min): VL040279.D\data.ms (-1)



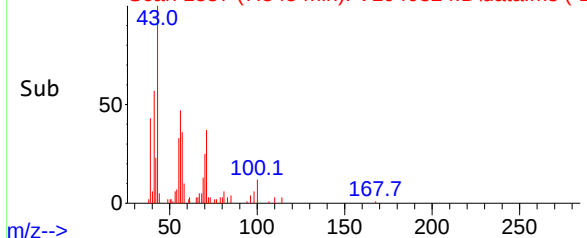
#10
Heptane
Concen: 0.214 ppbv
RT: 7.545 min Scan# 1537
Delta R.T. -0.036 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

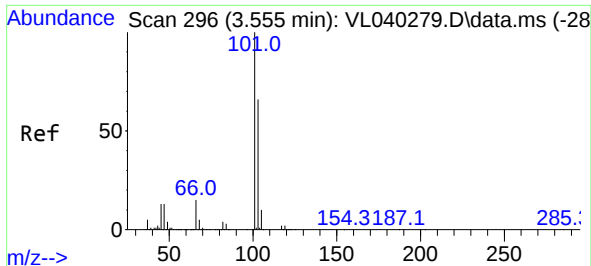
Tgt Ion: 43 Resp: 24208
Ion Ratio Lower Upper
43 100
57 59.5 41.7 62.5

Abundance Scan 1537 (7.545 min): VL040324.D\data.ms



Abundance Scan 1537 (7.545 min): VL040324.D\data.ms (-1)

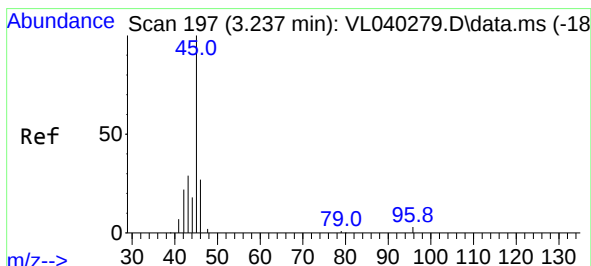
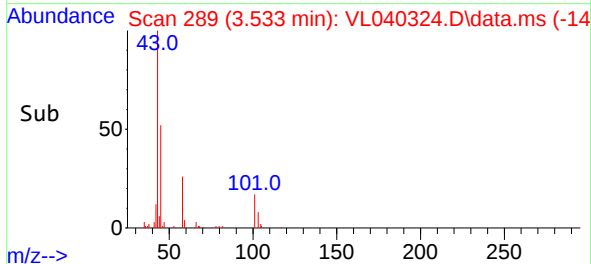
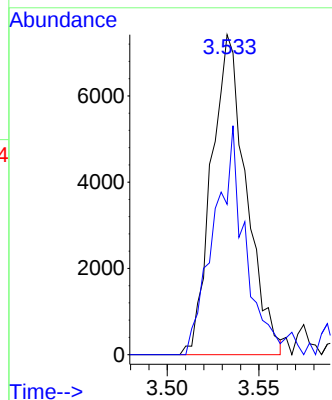
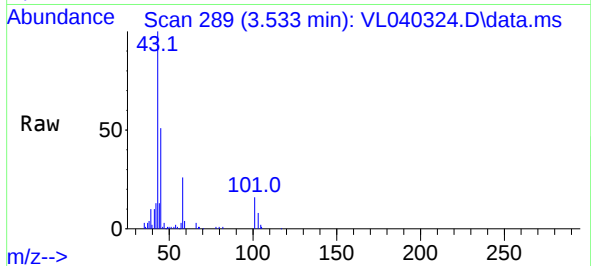




#11
Trichlorofluoromethane
Concen: 0.056 ppbv
RT: 3.533 min Scan# 21
Delta R.T. -0.022 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

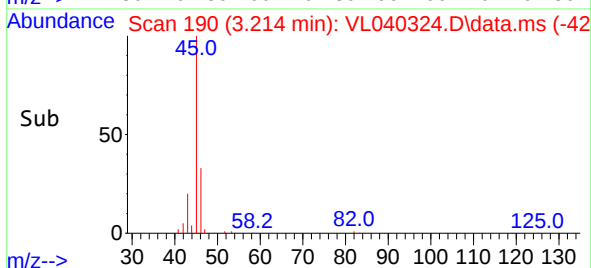
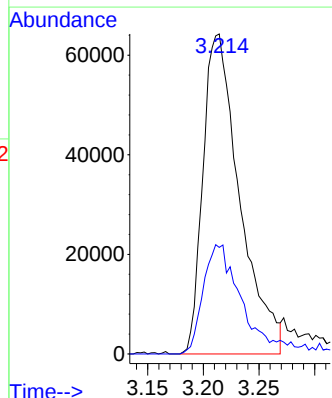
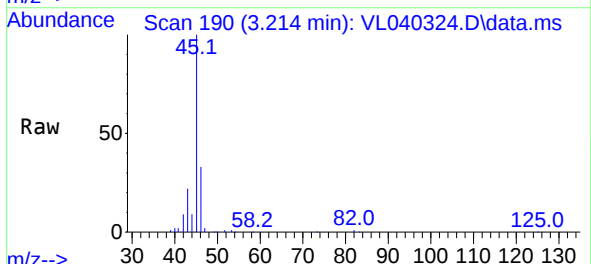
Instrument :
MSVOA_L
ClientSampleId :
SV-1

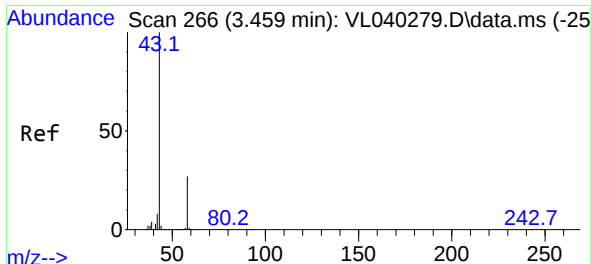
Tgt Ion:101 Resp: 9771
Ion Ratio Lower Upper
101 100
103 47.0 53.1 79.7#



#13
Ethanol
Concen: 42.650 ppbv
RT: 3.214 min Scan# 190
Delta R.T. -0.023 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 45 Resp: 147174
Ion Ratio Lower Upper
45 100
46 38.4 15.0 60.2

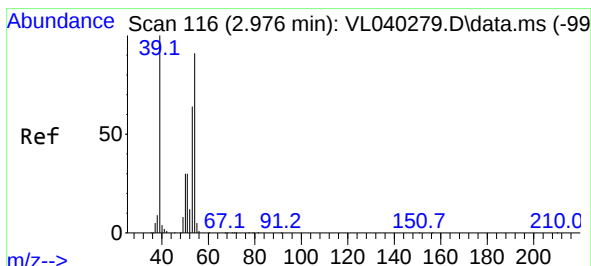
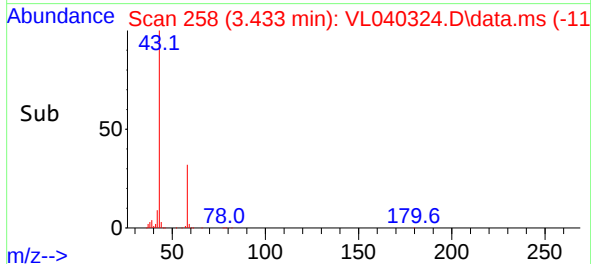
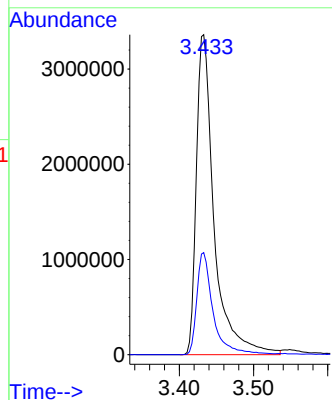
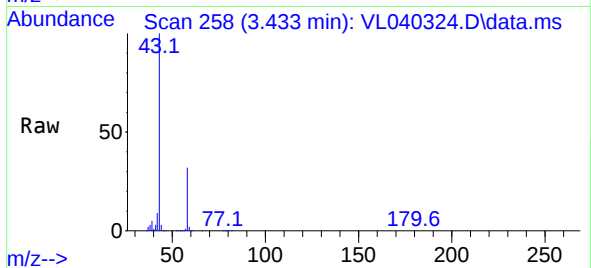




#15
Acetone
Concen: 47.012 ppbv
RT: 3.433 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

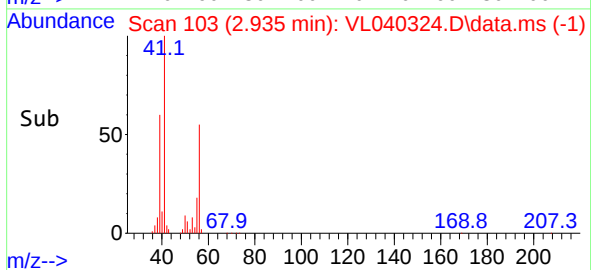
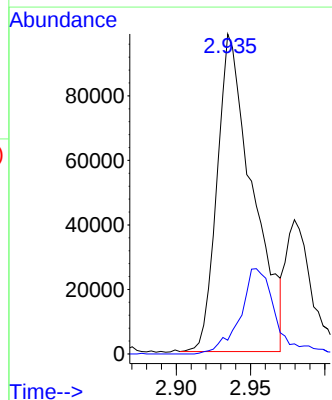
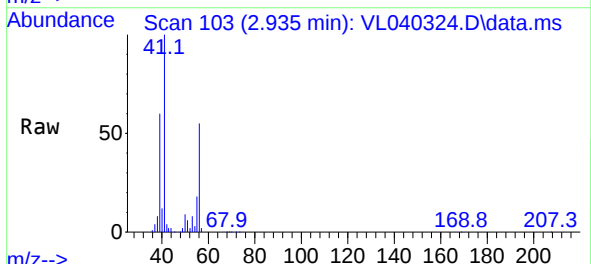
Instrument :
MSVOA_L
ClientSampleId :
SV-1

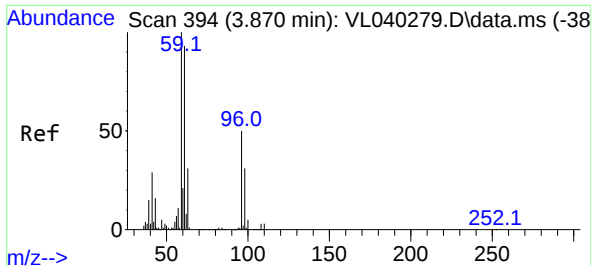
Tgt Ion: 43 Resp: 5589829
Ion Ratio Lower Upper
43 100
58 30.0 21.8 32.8



#16
1,3-Butadiene
Concen: 3.026 ppbv
RT: 2.935 min Scan# 103
Delta R.T. -0.041 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 39 Resp: 163549
Ion Ratio Lower Upper
39 100
54 26.7 68.4 102.6#

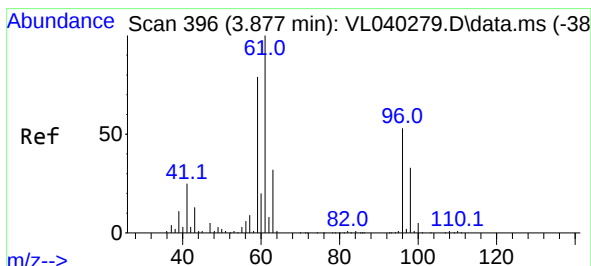
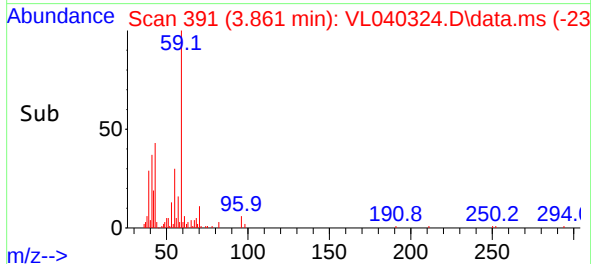
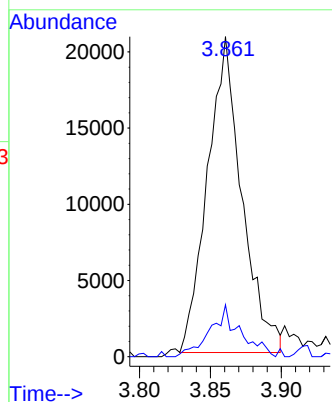
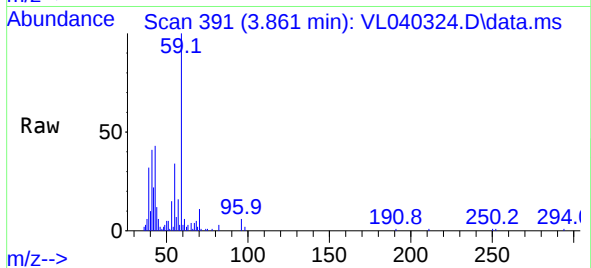




#17
tert-Butyl alcohol
Concen: 0.310 ppbv
RT: 3.861 min Scan# 391
Delta R.T. -0.009 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

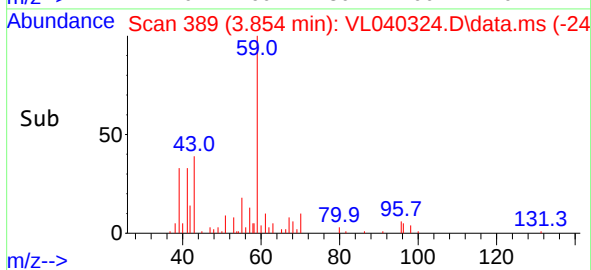
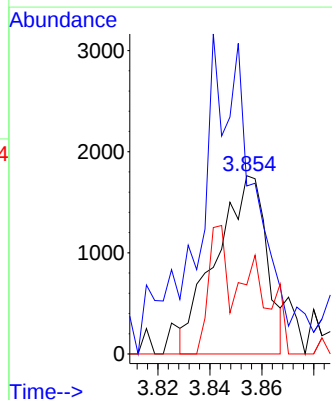
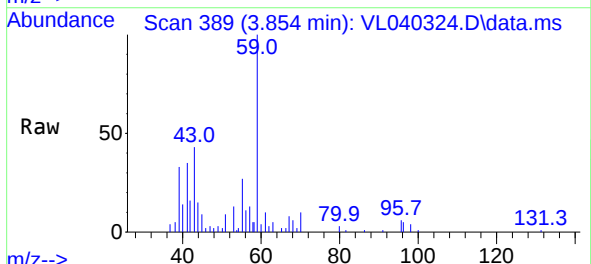
Instrument :
MSVOA_L
ClientSampleId :
SV-1

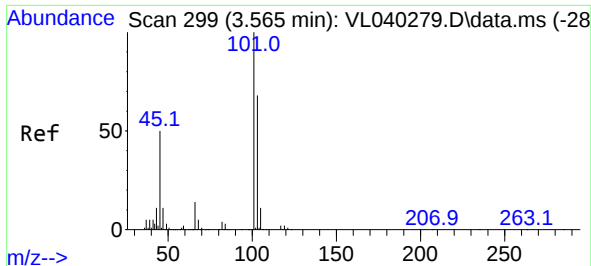
Tgt Ion: 59 Resp: 34977
Ion Ratio Lower Upper
59 100
57 14.7 8.5 12.7#



#18
1,1-Dichloroethene
Concen: 0.043 ppbv
RT: 3.854 min Scan# 389
Delta R.T. -0.023 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 96 Resp: 2378
Ion Ratio Lower Upper
96 100
61 74.3 150.6 226.0#
98 45.3 50.3 75.5#

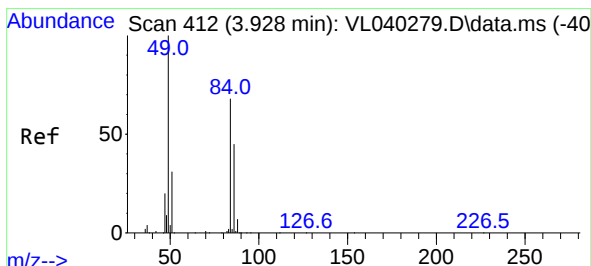
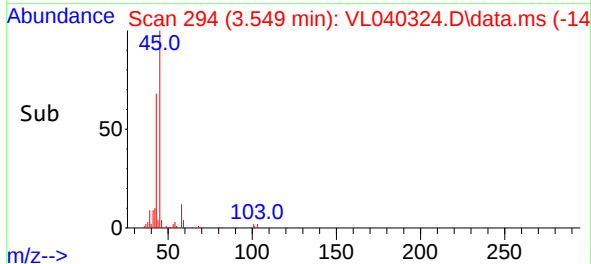
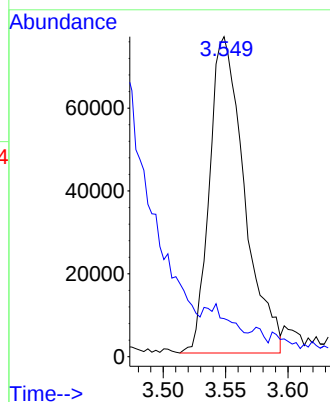
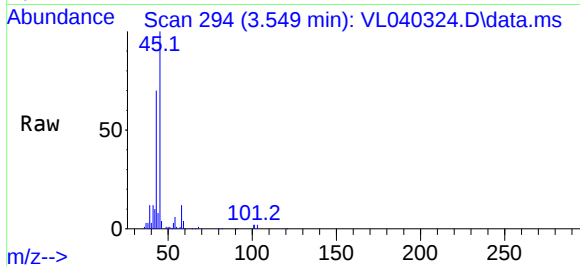




#19
Isopropyl Alcohol
Concen: 2.610 ppbv
RT: 3.549 min Scan# 299
Delta R.T. -0.016 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

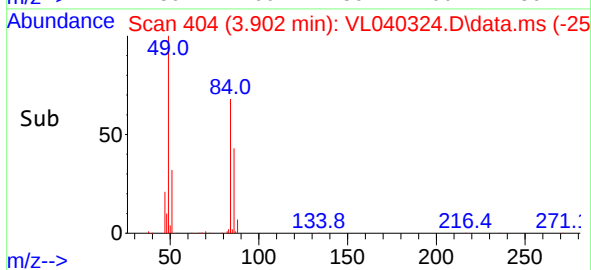
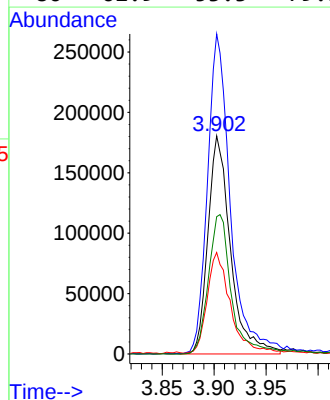
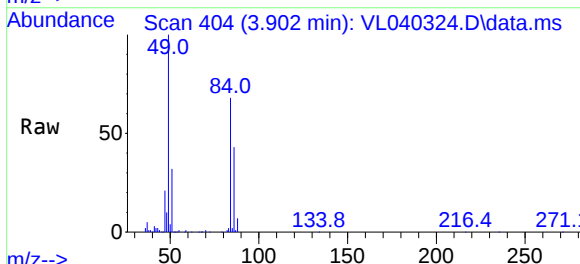
Instrument :
MSVOA_L
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SV-1

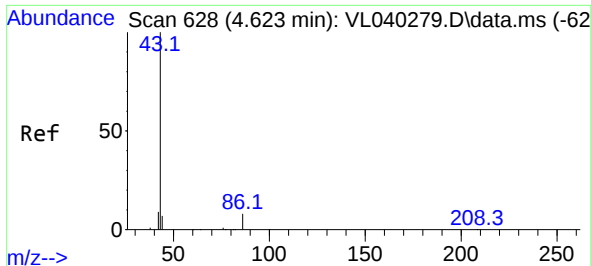
Tgt Ion: 45 Resp: 148652
Ion Ratio Lower Upper
45 100
58 0.0 2.7 4.1#



#20
Methylene Chloride
Concen: 5.454 ppbv
RT: 3.902 min Scan# 404
Delta R.T. -0.026 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 84 Resp: 272811
Ion Ratio Lower Upper
84 100
49 146.5 117.5 176.3
51 45.8 36.9 55.3
86 62.9 53.3 79.9



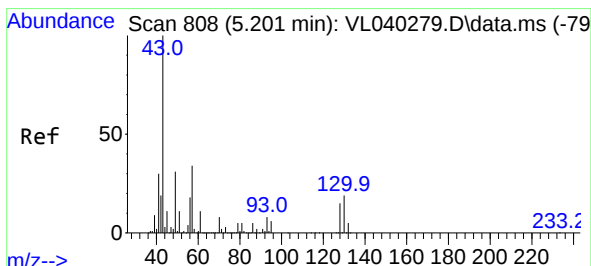
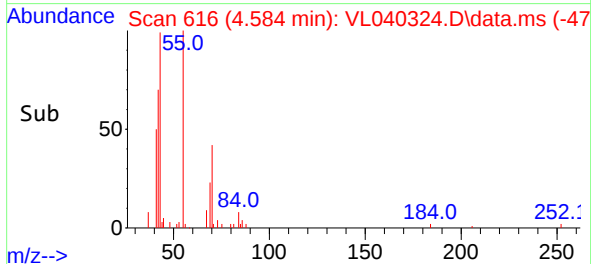
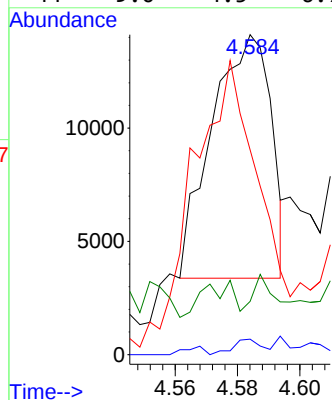
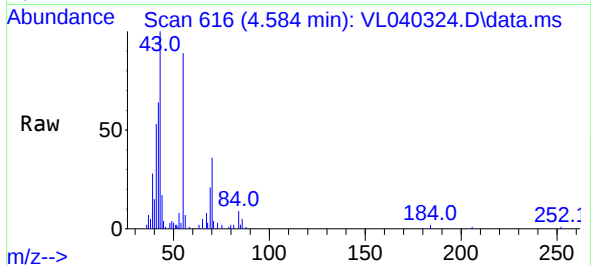


#23
 Vinyl Acetate
 Concen: 0.430 ppbv
 RT: 4.584 min Scan# 61
 Delta R.T. -0.039 min
 Lab File: VL040324.D
 Acq: 10 Apr 2023 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tgt Ion: 43 Resp: 14211

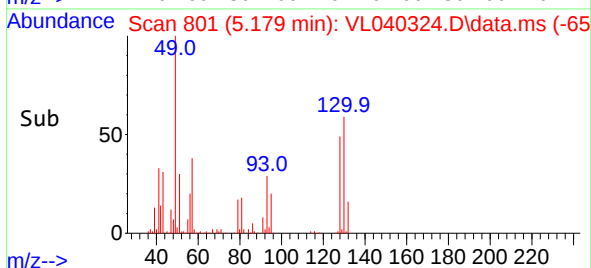
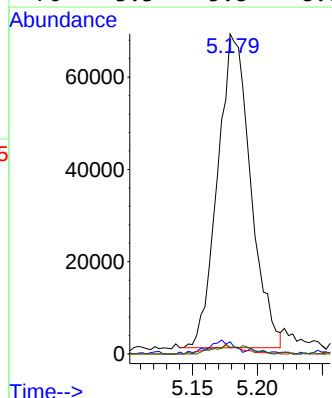
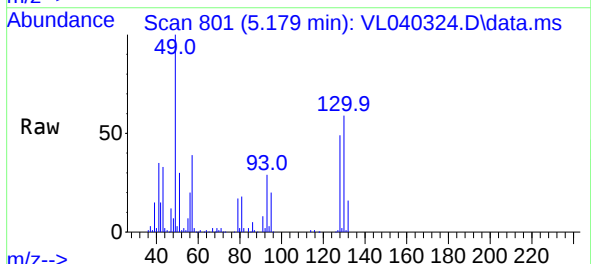
Ion	Ratio	Lower	Upper
43	100		
86	4.3	5.0	7.4#
42	49.4	9.1	13.7#
44	9.0	4.5	6.7#

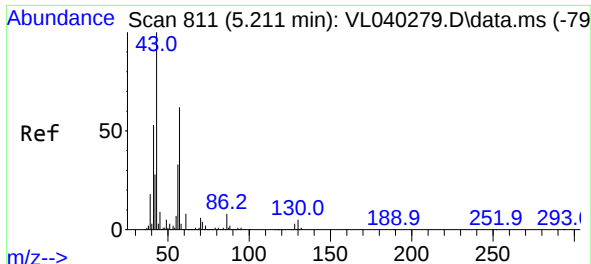


#25
 Ethyl Acetate
 Concen: 0.539 ppbv
 RT: 5.179 min Scan# 801
 Delta R.T. -0.022 min
 Lab File: VL040324.D
 Acq: 10 Apr 2023 14:27

Tgt Ion: 43 Resp: 119949

Ion	Ratio	Lower	Upper
43	100		
45	4.3	8.6	12.8#
61	2.7	8.4	12.6#
70	3.3	5.8	8.6#



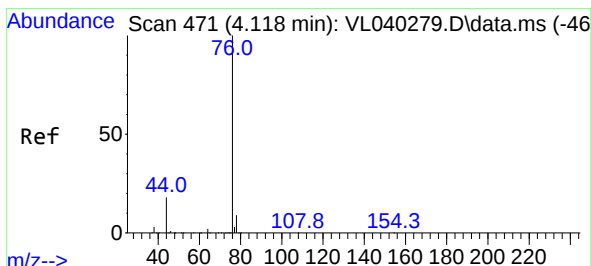
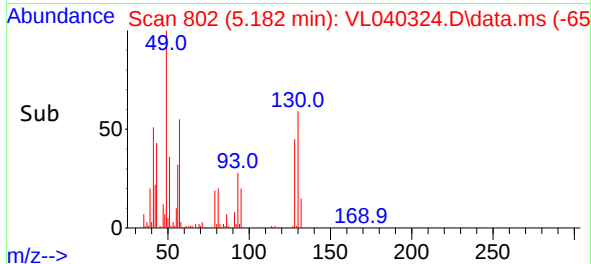
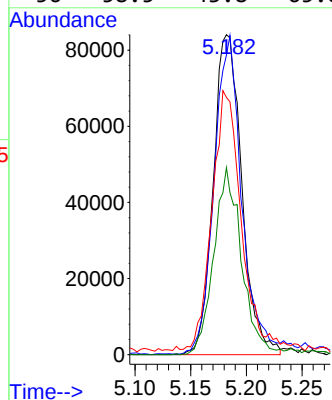
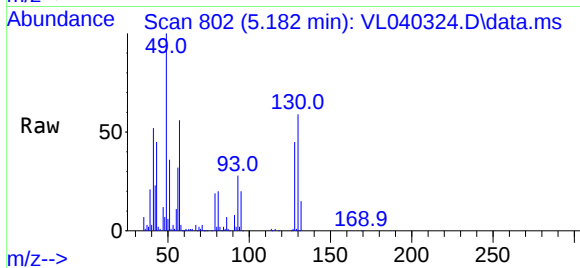


#26
Hexane
Concen: 1.640 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.029 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tgt Ion: 57 Resp: 149855

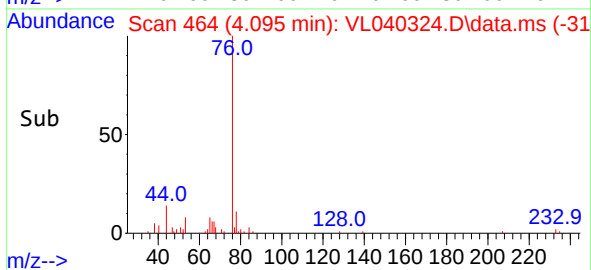
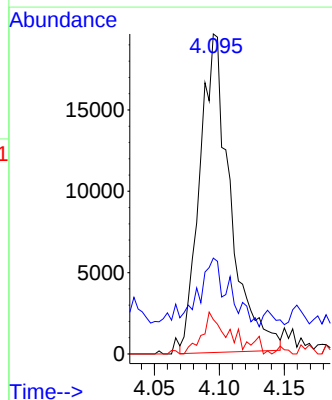
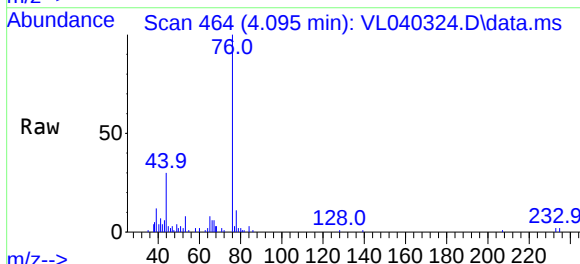
Ion	Ratio	Lower	Upper
57	100		
41	99.6	73.5	110.3
43	86.4	196.3	294.5#
56	58.5	43.8	65.8

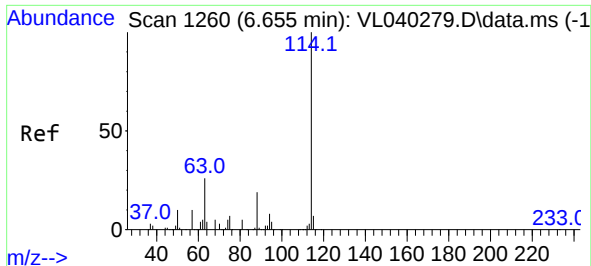


#27
Carbon Disulfide
Concen: 0.252 ppbv
RT: 4.095 min Scan# 464
Delta R.T. -0.023 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 76 Resp: 32123

Ion	Ratio	Lower	Upper
76	100		
44	23.3	15.2	22.8#
78	13.1	7.6	11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.623 min Scan# 11

Delta R.T. -0.032 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1

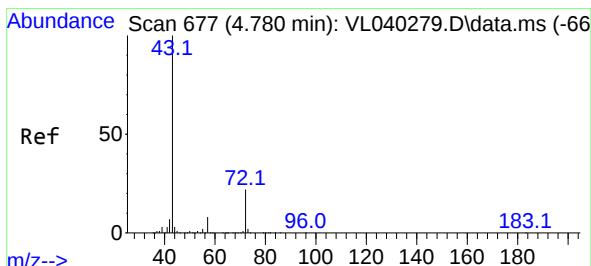
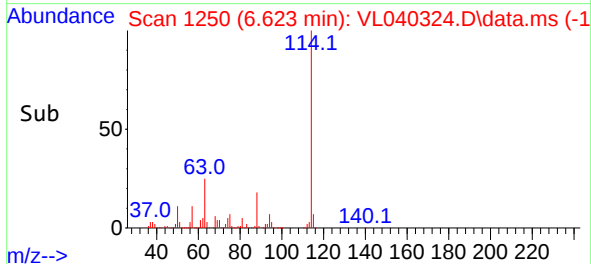
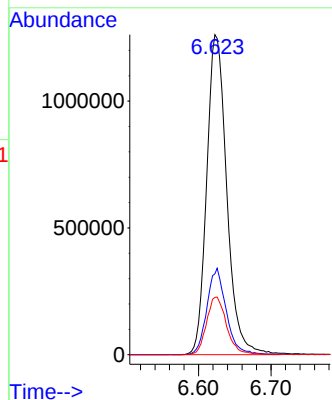
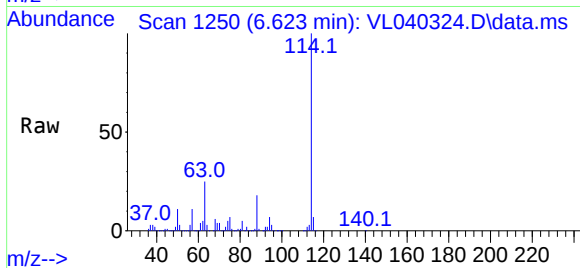
Tgt Ion:114 Resp: 2428816

Ion Ratio Lower Upper

114 100

63 26.2 21.2 31.8

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 11.656 ppbv

RT: 4.751 min Scan# 668

Delta R.T. -0.029 min

Lab File: VL040324.D

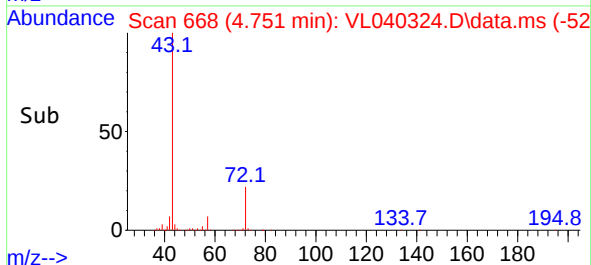
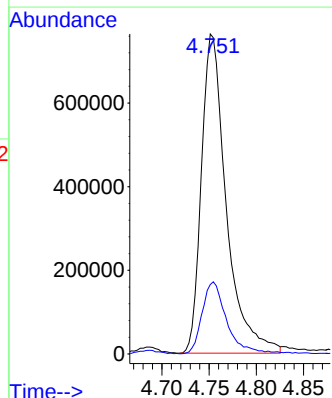
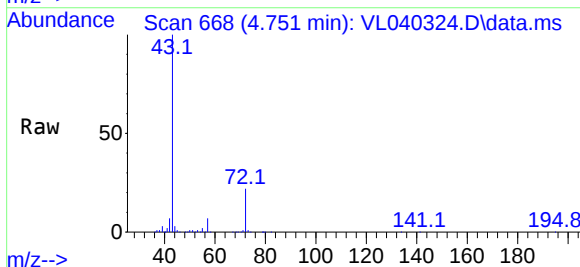
Acq: 10 Apr 2023 14:27

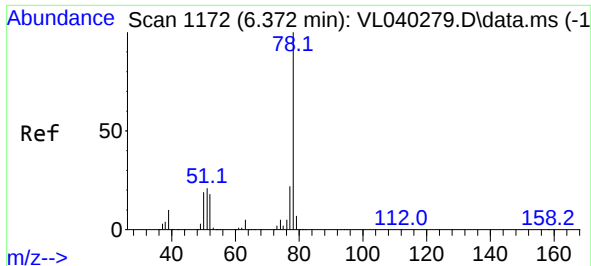
Tgt Ion: 43 Resp: 1397193

Ion Ratio Lower Upper

43 100

72 23.0 18.3 27.5

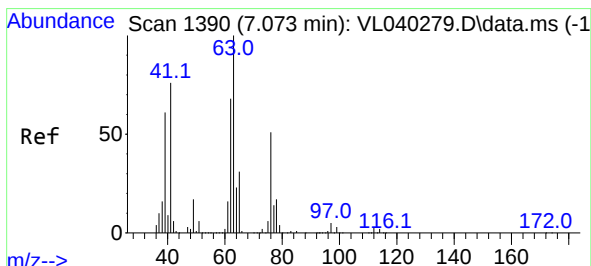
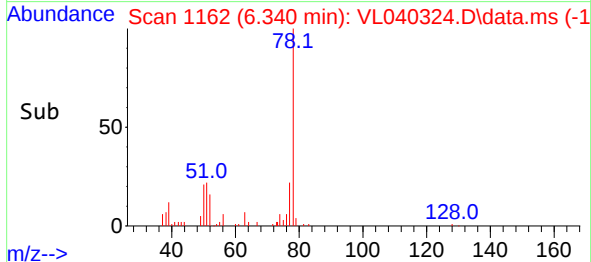
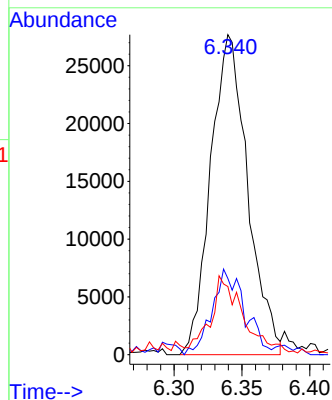
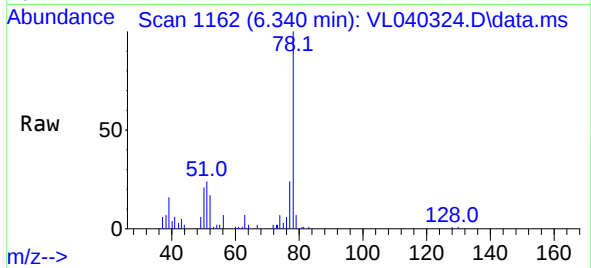




#36
Benzene
Concen: 0.284 ppbv
RT: 6.340 min Scan# 1172
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

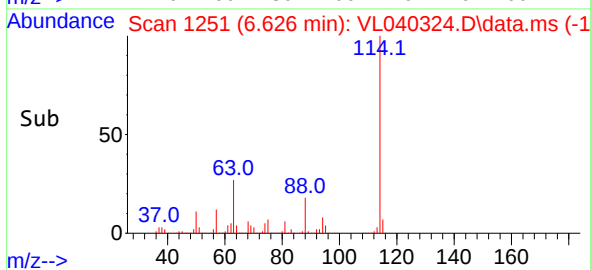
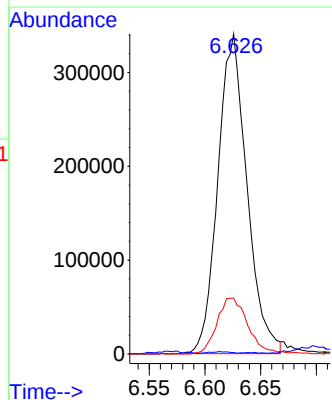
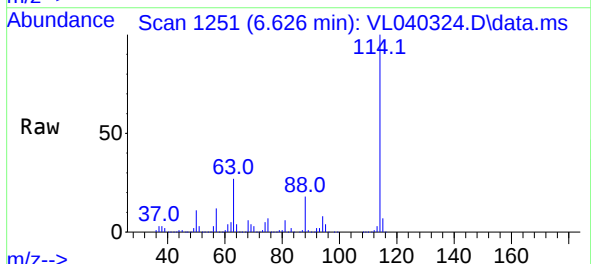
Instrument :
MSVOA_L
ClientSampleId :
SV-1

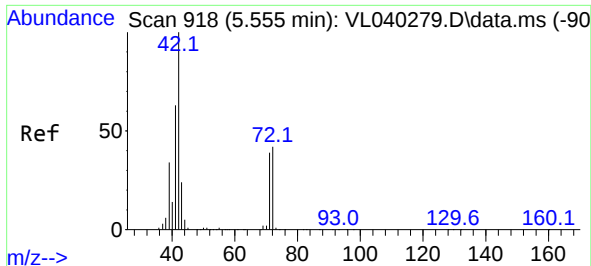
Tgt Ion: 78 Resp: 52593
Ion Ratio Lower Upper
78 100
77 22.0 17.8 26.8
50 18.4 15.4 23.2



#39
1,2-Dichloropropane
Concen: 8.523 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. -0.447 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 63 Resp: 618924
Ion Ratio Lower Upper
63 100
41 0.0 60.8 91.2#
62 17.5 54.1 81.1#





#41

Tetrahydrofuran

Concen: 9.057 ppbv

RT: 5.526 min Scan# 90

Delta R.T. -0.029 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1

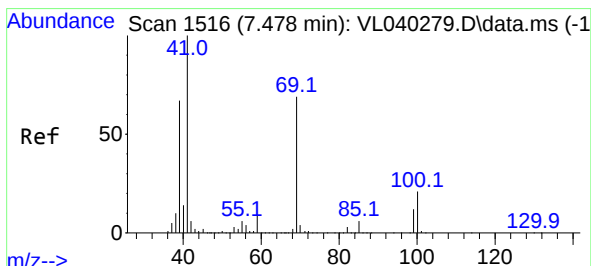
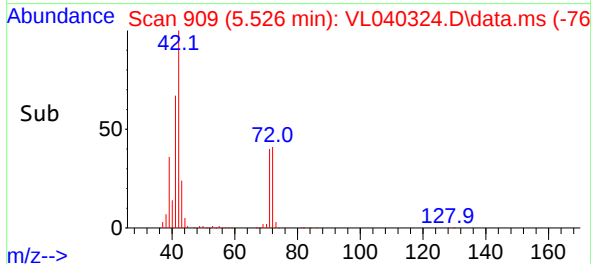
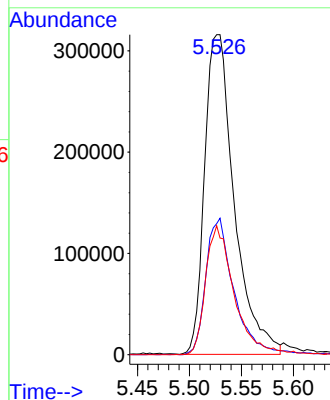
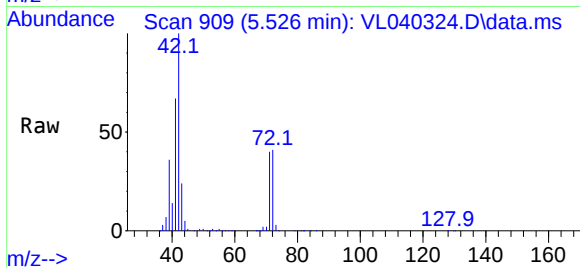
Tgt Ion: 42 Resp: 626607

Ion Ratio Lower Upper

42 100

72 41.1 32.6 49.0

71 39.0 31.0 46.4



#43

Methyl Methacrylate

Concen: 0.065 ppbv

RT: 7.449 min Scan# 1507

Delta R.T. -0.029 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

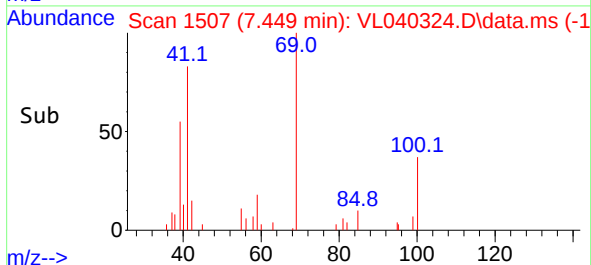
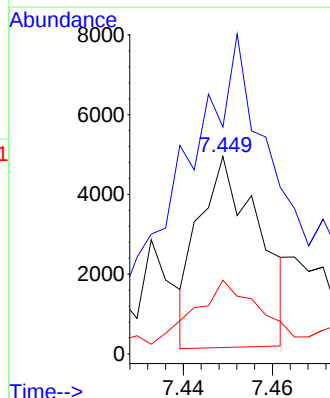
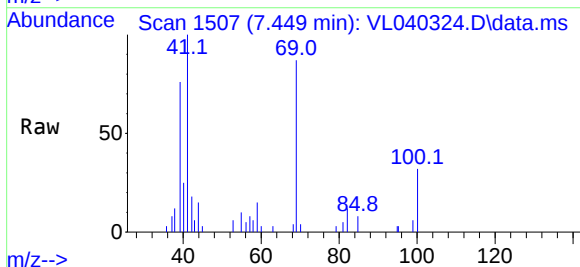
Tgt Ion: 69 Resp: 4485

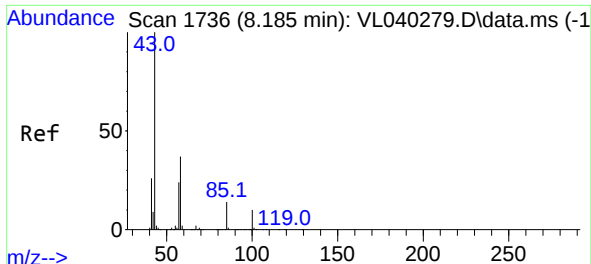
Ion Ratio Lower Upper

69 100

41 252.6 116.9 175.3#

100 60.8 24.2 36.4#





#50

4-Methyl-2-Pentanone

Concen: 0.113 ppbv

RT: 8.163 min Scan# 1

Delta R.T. -0.022 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

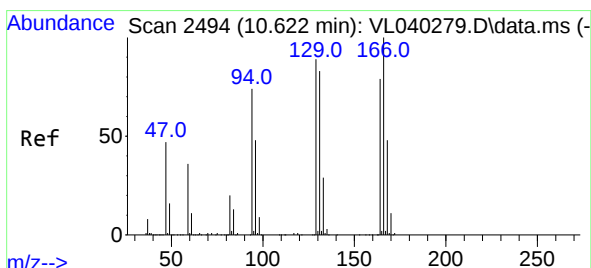
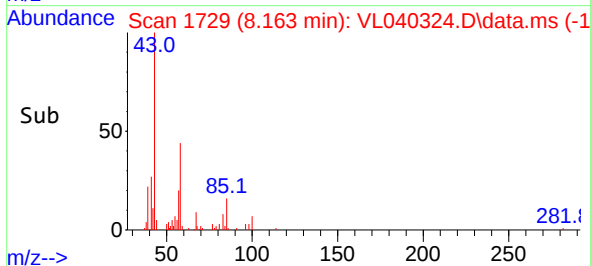
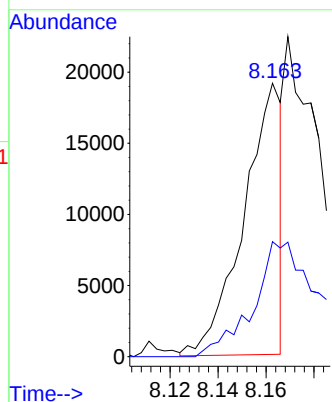
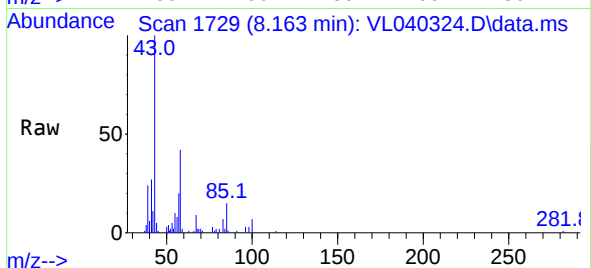
SV-1

Tgt Ion: 43 Resp: 20915

Ion Ratio Lower Upper

43 100

58 80.3 29.2 43.8#



#52

Tetrachloroethene

Concen: 14.341 ppbv

RT: 10.587 min Scan# 2483

Delta R.T. -0.035 min

Lab File: VL040324.D

Acq: 10 Apr 2023 14:27

Tgt Ion: 164 Resp: 803076

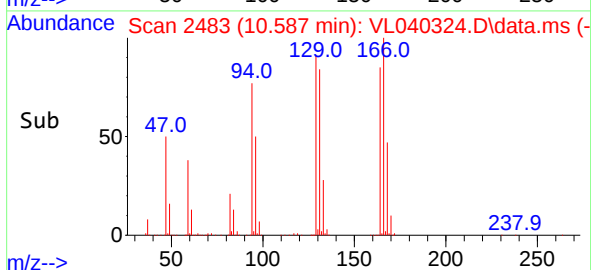
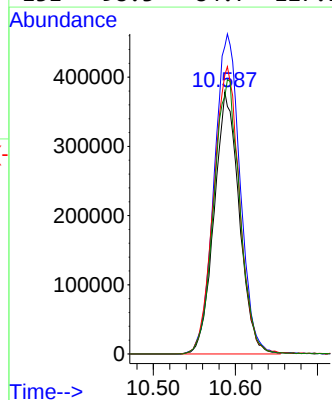
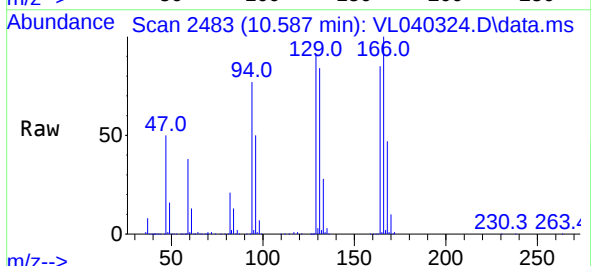
Ion Ratio Lower Upper

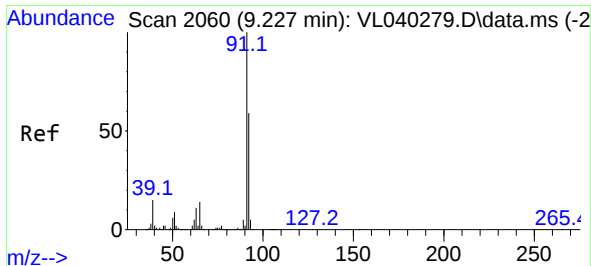
164 100

166 117.5 101.8 152.6

129 106.5 90.2 135.2

131 98.3 84.7 127.1

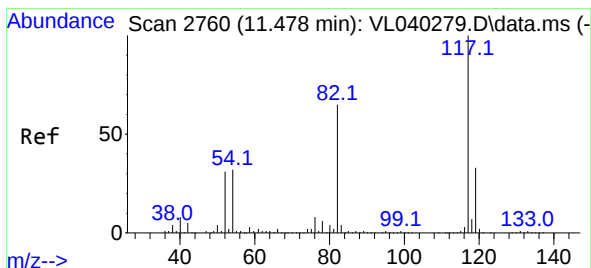
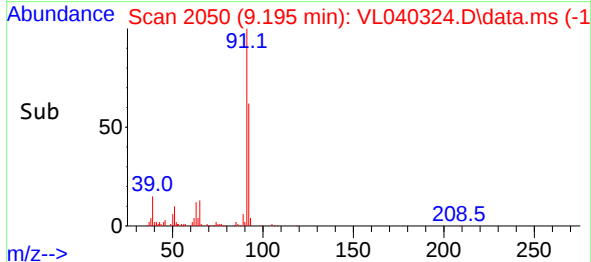
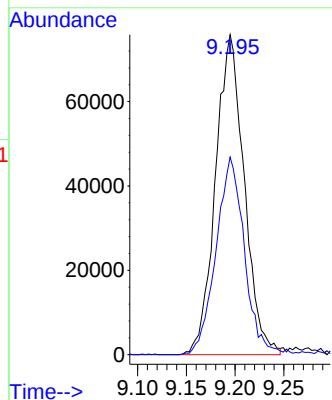
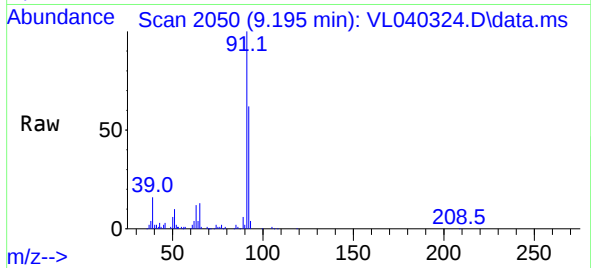




#53
Toluene
Concen: 0.802 ppbv
RT: 9.195 min Scan# 2060
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

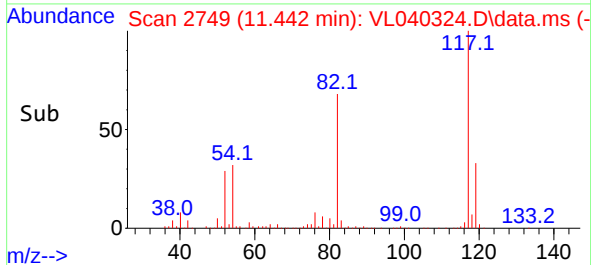
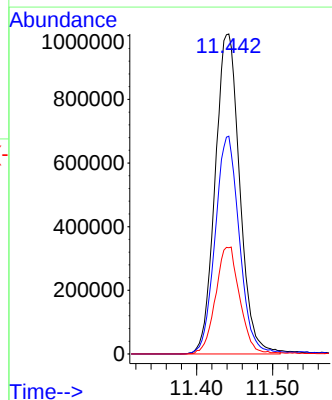
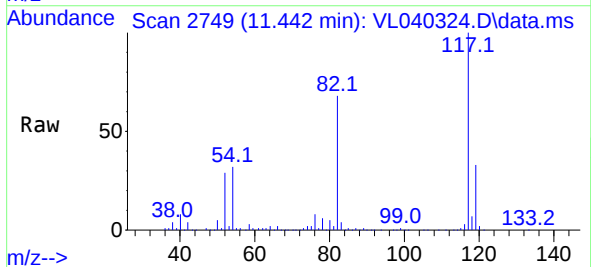
Instrument :
MSVOA_L
ClientSampleId :
SV-1

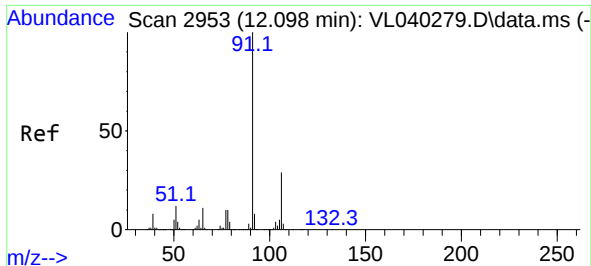
Tgt Ion: 91 Resp: 155601
Ion Ratio Lower Upper
91 100
92 61.5 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.036 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 117 Resp: 2255176
Ion Ratio Lower Upper
117 100
82 68.1 51.4 77.2
119 33.3 24.0 36.0

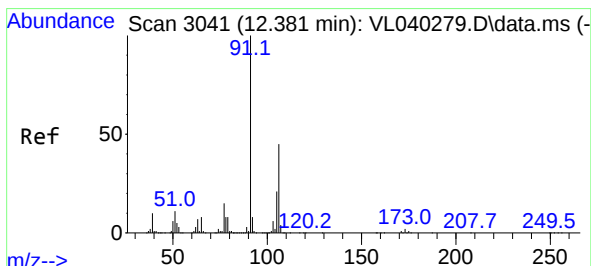
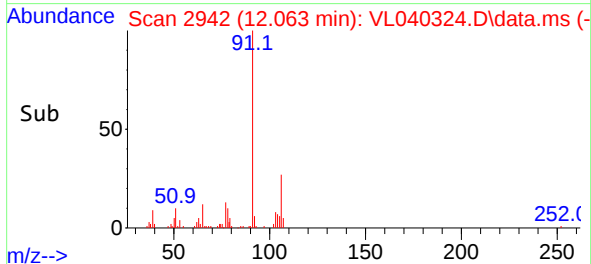
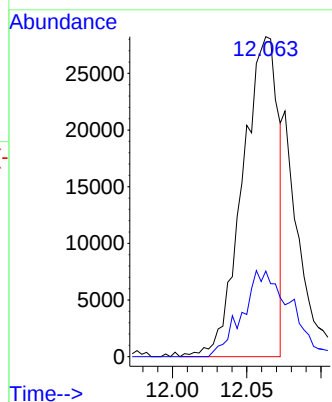
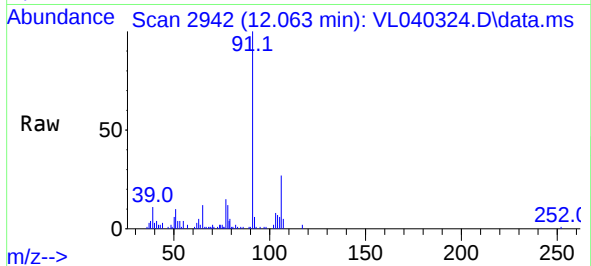




#58
Ethyl Benzene
Concen: 0.183 ppbv
RT: 12.063 min Scan# 2953
Delta R.T. -0.035 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

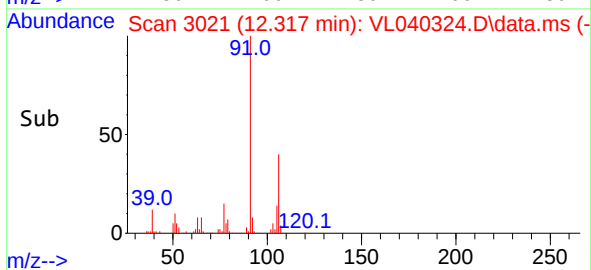
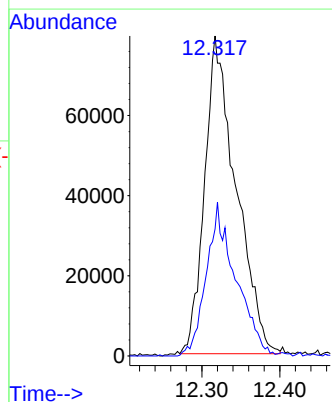
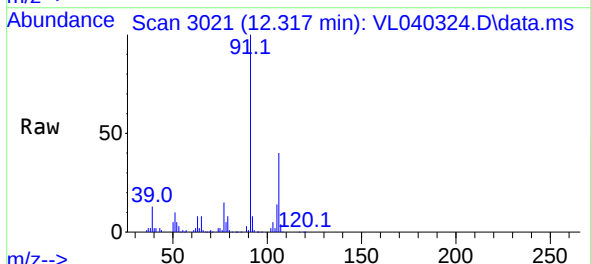
Instrument :
MSVOA_L
ClientSampleId :
SV-1

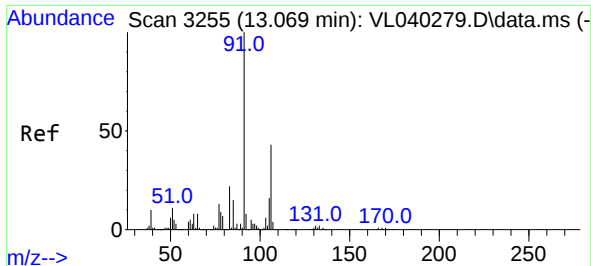
Tgt Ion: 91 Resp: 46871
Ion Ratio Lower Upper
91 100
106 26.8 23.4 35.2



#59
m/p-Xylene
Concen: 0.945 ppbv
RT: 12.317 min Scan# 3021
Delta R.T. -0.064 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 91 Resp: 222332
Ion Ratio Lower Upper
91 100
106 45.7 34.0 51.0

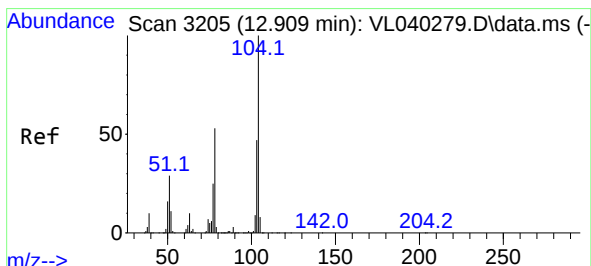
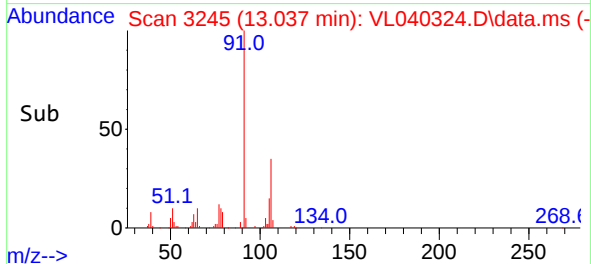
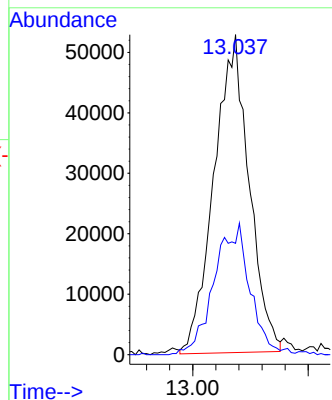
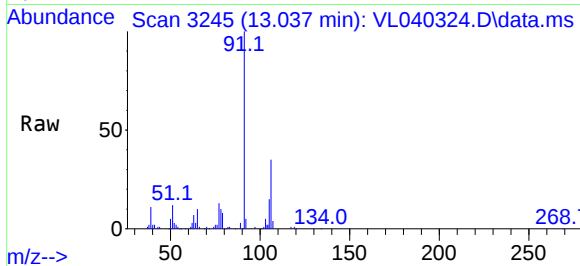




#60
o-Xylene
Concen: 0.493 ppbv
RT: 13.037 min Scan# 3194
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

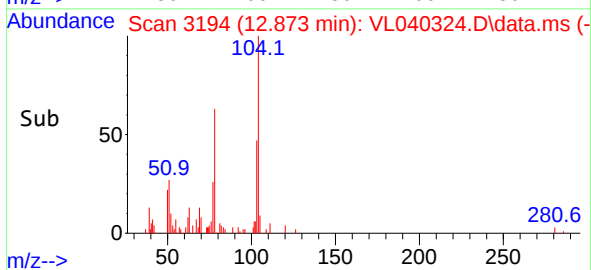
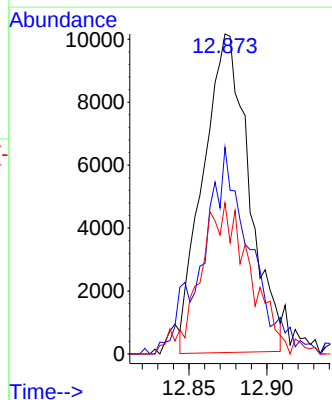
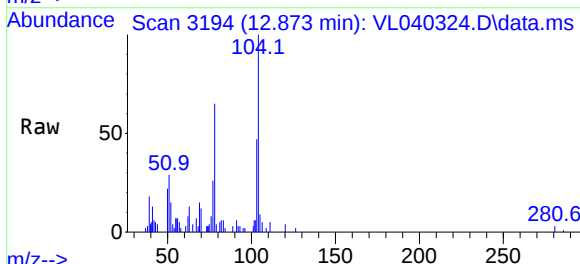
Instrument :
MSVOA_L
ClientSampleId :
SV-1

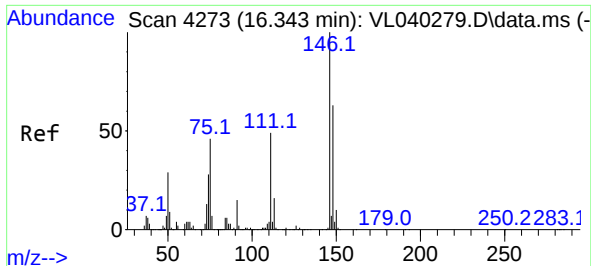
Tgt Ion: 91 Resp: 110776
Ion Ratio Lower Upper
91 100
106 42.6 21.7 65.1



#61
Styrene
Concen: 0.181 ppbv
RT: 12.873 min Scan# 3194
Delta R.T. -0.036 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 104 Resp: 20665
Ion Ratio Lower Upper
104 100
78 69.6 43.7 65.5#
103 53.2 37.4 56.2

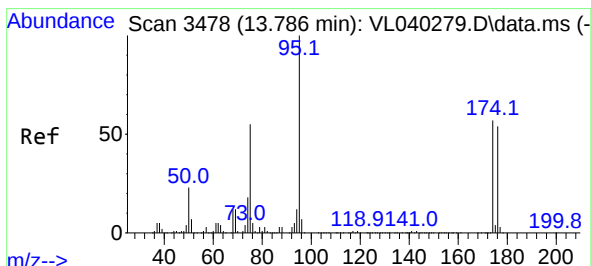
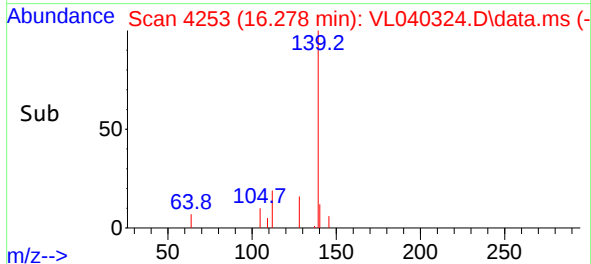
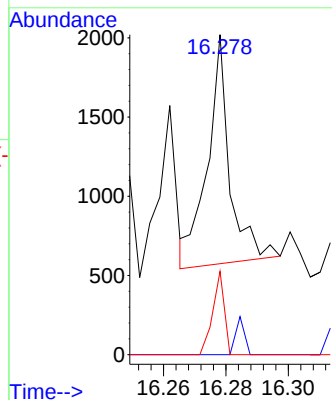
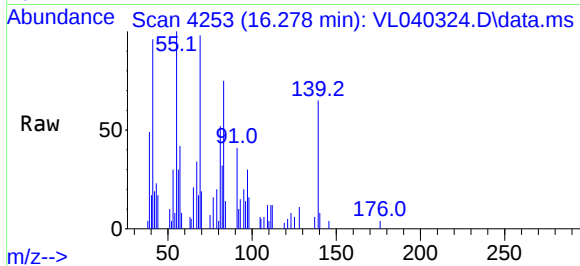




#66
Benzyl Chloride
Concen: 0.040 ppbv
RT: 16.278 min Scan# 41
Delta R.T. -0.065 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

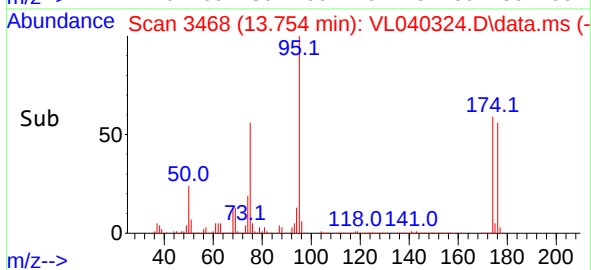
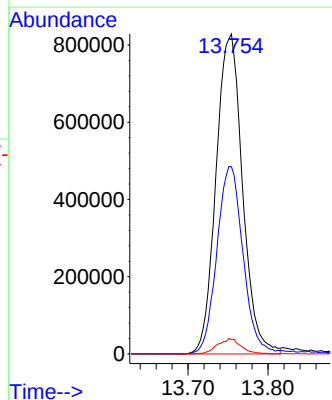
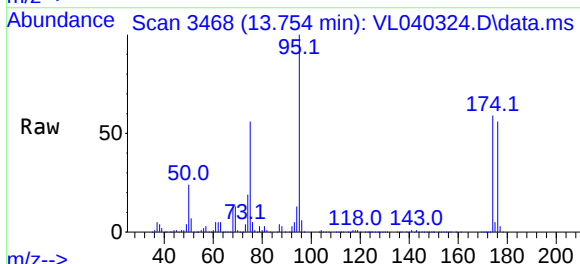
Instrument :
MSVOA_L
ClientSampleId :
SV-1

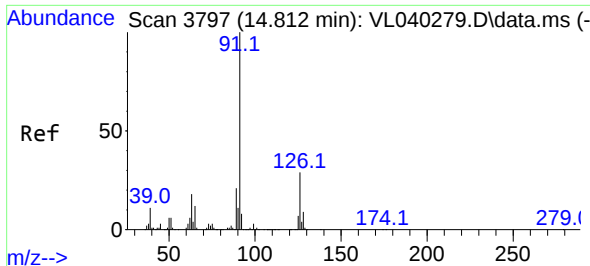
Tgt Ion:	91	Resp:	716
Ion	Ratio	Lower	Upper
91	100		
126	0.0	12.1	18.1#
128	18.9	3.8	5.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. -0.032 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion:	95	Resp:	1906355
Ion	Ratio	Lower	Upper
95	100		
174	59.2	47.0	70.6
175	4.3	3.4	5.2

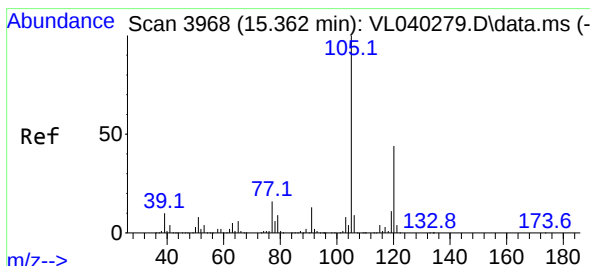
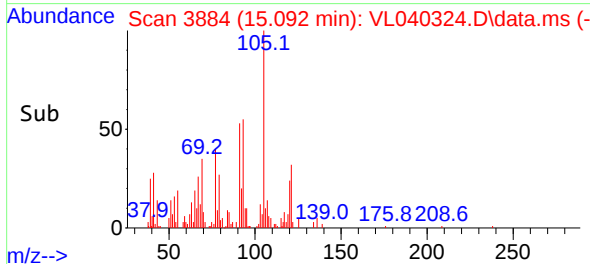
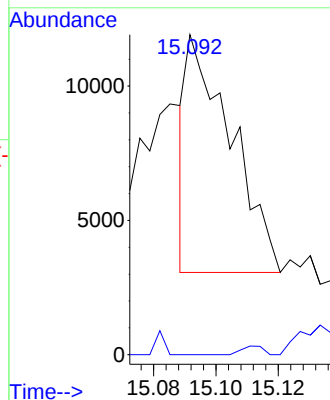
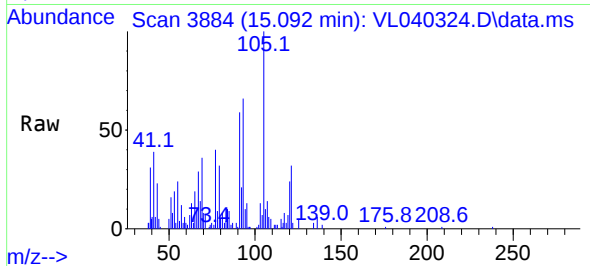




#71
2-Chlorotoluene
Concen: 0.036 ppbv
RT: 15.092 min Scan# 31
Delta R.T. 0.280 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

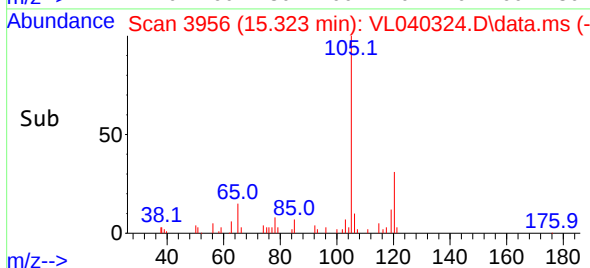
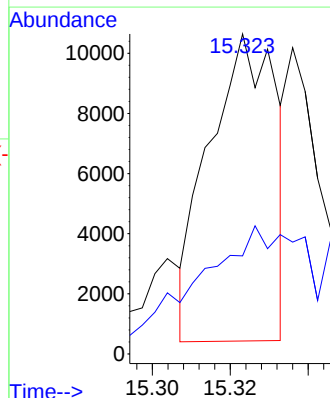
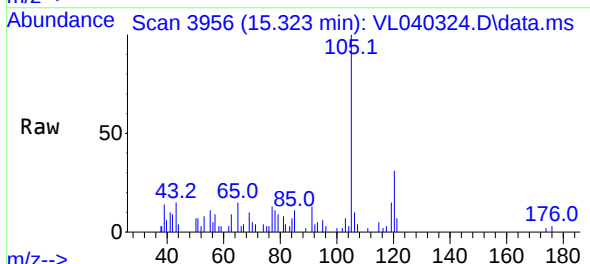
Instrument :
MSVOA_L
ClientSampleId :
SV-1

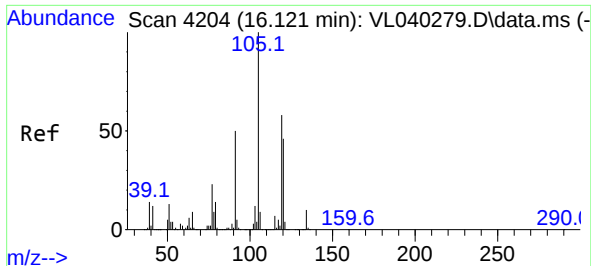
Tgt Ion: 91 Resp: 8802
Ion Ratio Lower Upper
91 100
126 27.4 11.8 47.4



#73
1,3,5-Trimethylbenzene
Concen: 0.055 ppbv
RT: 15.323 min Scan# 3956
Delta R.T. -0.039 min
Lab File: VL040324.D
Acq: 10 Apr 2023 14:27

Tgt Ion: 105 Resp: 12138
Ion Ratio Lower Upper
105 100
120 19.9 34.9 52.3#





#74

1,2,4-Trimethylbenzene

Concen: 0.212 ppbv

RT: 16.082 min Scan# 41

Delta R.T. -0.039 min

Lab File: VL040324.D

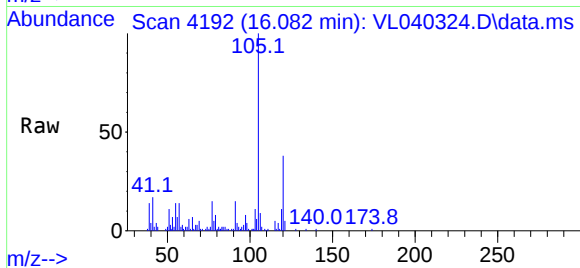
Acq: 10 Apr 2023 14:27

Instrument :

MSVOA_L

ClientSampleId :

SV-1



Tgt Ion:105 Resp: 53847

Ion Ratio Lower Upper

105 100

120 38.9 36.6 54.8

91 12.0 39.9 59.9#

77 12.1 18.6 27.8#

