

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040117.D
 Acq On : 19 Jan 2023 17:32
 Operator : SY/MD
 Sample : 01223-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

Quant Time: Jan 20 02:08:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

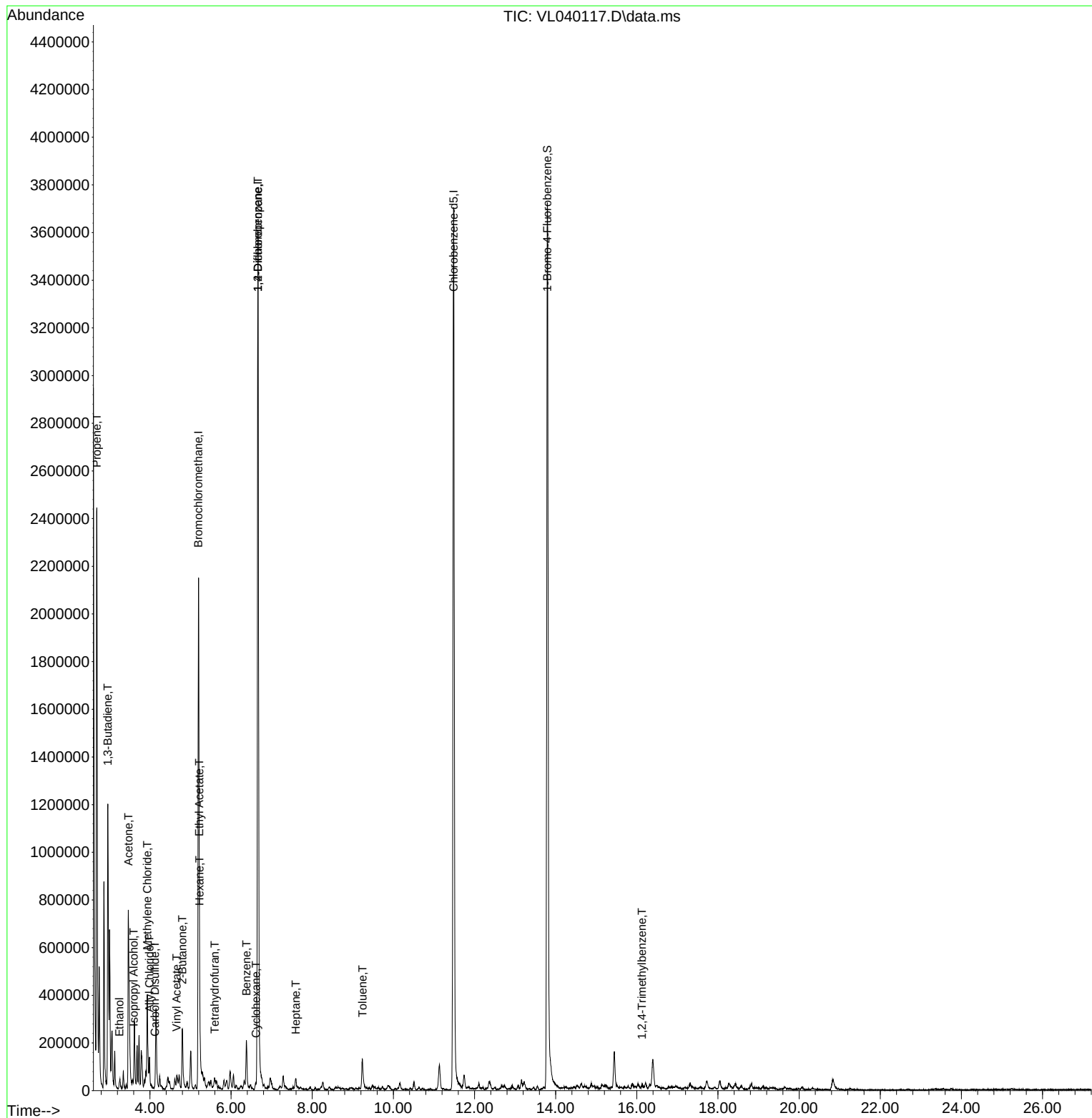
Internal Standards						
1) Bromochloromethane	5.195	49	1082661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2836881	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2526662	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1979081	9.425	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.200%
Target Compounds						
					Qvalue	
9) Propene	2.687	41	1038554	19.249	ppbv	92
10) Heptane	7.597	43	8670	0.070	ppbv #	1
13) Ethanol	3.250	45	31290	6.301	ppbv	80
15) Acetone	3.468	43	845249	6.510	ppbv #	89
16) 1,3-Butadiene	2.960	39	401908	6.639	ppbv #	45
19) Isopropyl Alcohol	3.600	45	11855	0.187	ppbv #	90
20) Methylene Chloride	3.934	84	119627	2.088	ppbv	92
21) Allyl Chloride	3.989	41	9385	0.113	ppbv #	1
23) Vinyl Acetate	4.658	43	11119	0.264	ppbv #	37
25) Ethyl Acetate	5.217	43	92698	0.405	ppbv #	86
26) Hexane	5.224	57	102742	1.026	ppbv #	46
27) Carbon Disulfide	4.124	76	9155	0.071	ppbv #	32
30) Cyclohexane	6.613	84	5965	0.075	ppbv #	1
34) 2-Butanone	4.796	43	320099	2.385	ppbv	98
36) Benzene	6.378	78	172282	0.821	ppbv	95
39) 1,2-Dichloropropane	6.661	63	709851	8.644	ppbv #	22
41) Tetrahydrofuran	5.594	42	30418	0.393	ppbv	93
53) Toluene	9.240	91	43870	0.196	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.127	105	8304	0.031	ppbv #	62

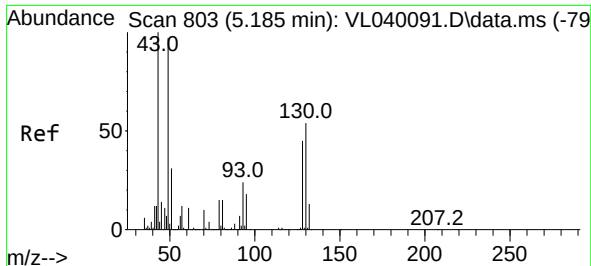
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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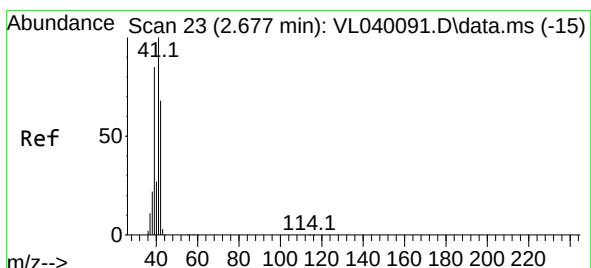
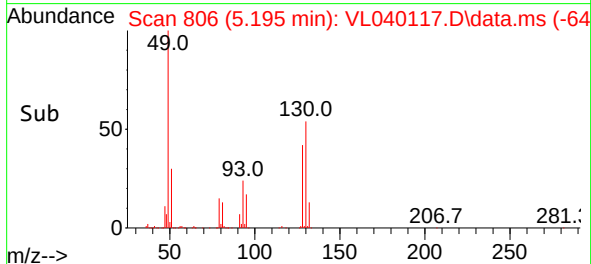
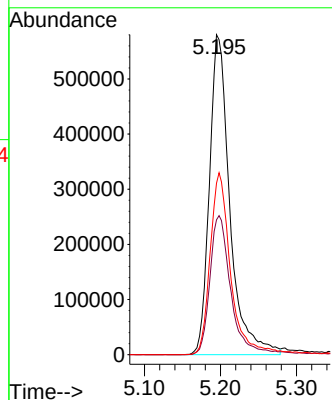
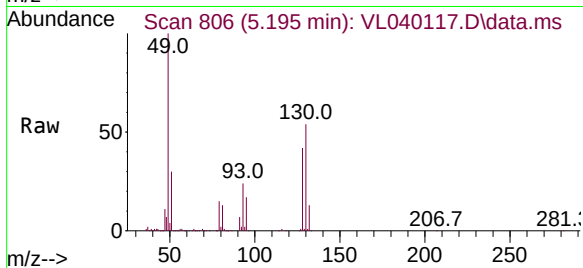




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

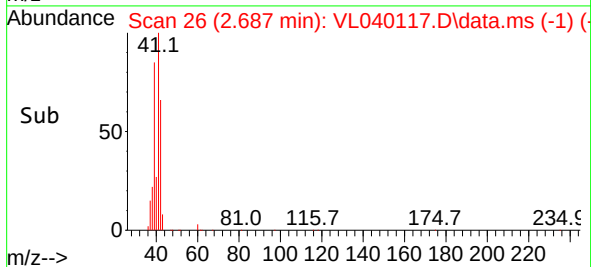
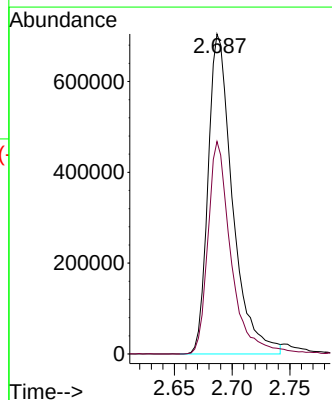
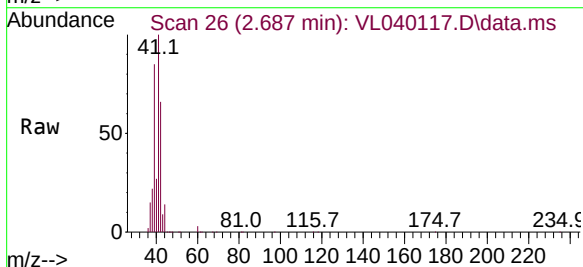
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

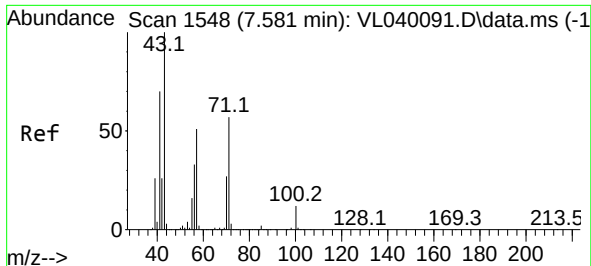
Tgt Ion: 49 Resp: 1082661
Ion Ratio Lower Upper
49 100
128 45.7 23.6 71.0
130 57.7 29.8 89.3



#9
Propene
Concen: 19.249 ppbv
RT: 2.687 min Scan# 26
Delta R.T. 0.009 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

Tgt Ion: 41 Resp: 1038554
Ion Ratio Lower Upper
41 100
42 63.1 55.6 83.4

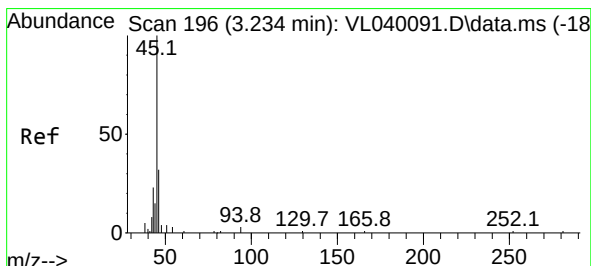
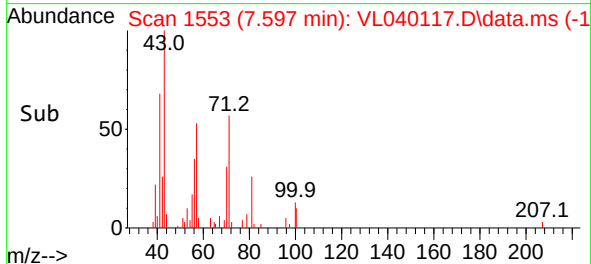
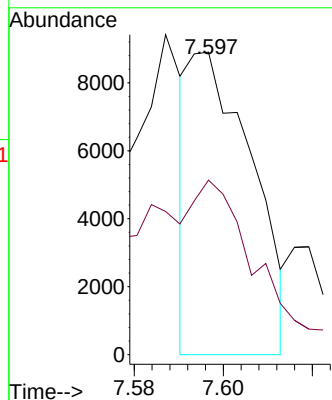
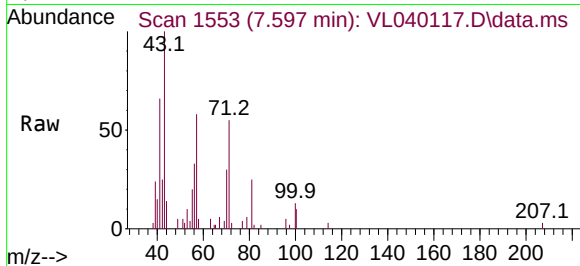




#10
Heptane
Concen: 0.070 ppbv
RT: 7.597 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

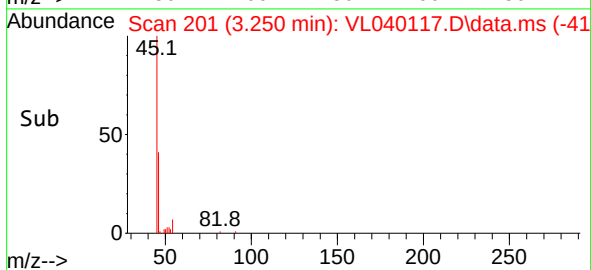
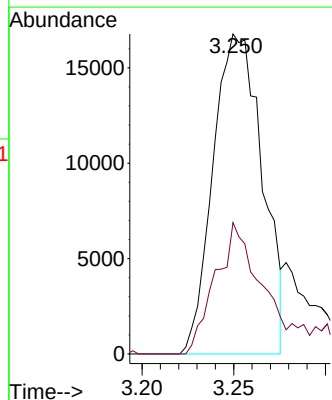
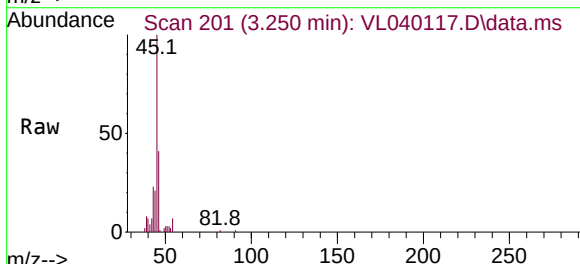
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

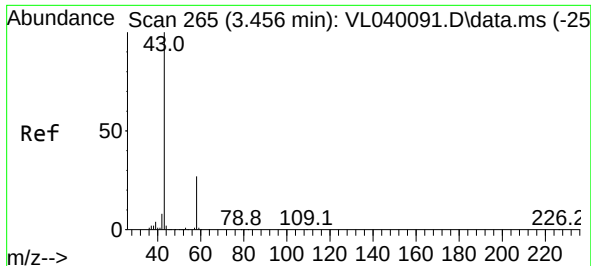
Tgt Ion: 43 Resp: 8670
Ion Ratio Lower Upper
43 100
57 126.6 40.9 61.3#



#13
Ethanol
Concen: 6.301 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.016 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

Tgt Ion: 45 Resp: 31290
Ion Ratio Lower Upper
45 100
46 49.0 14.8 59.2

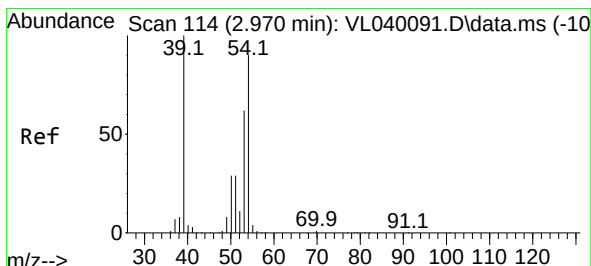
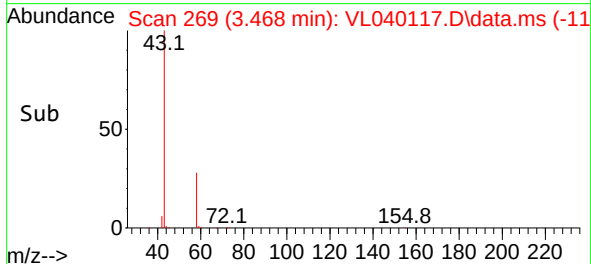
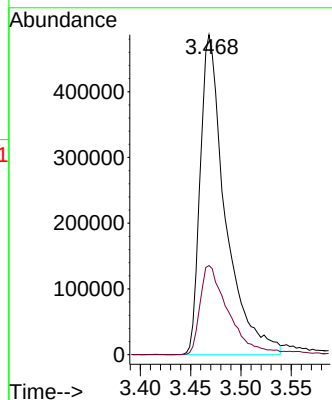
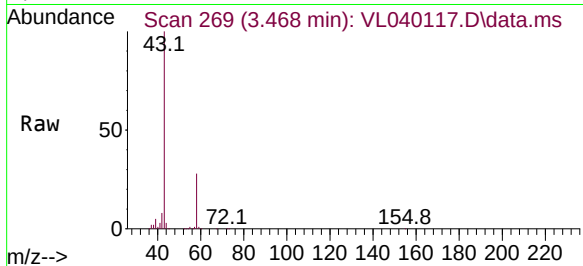




#15
Acetone
Concen: 6.510 ppbv
RT: 3.468 min Scan# 20
Delta R.T. 0.013 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

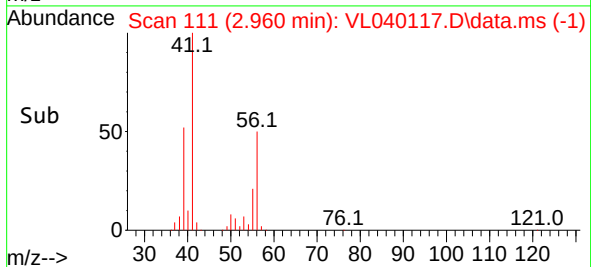
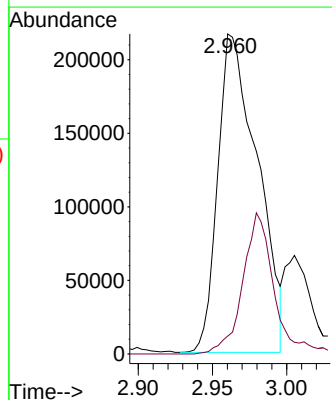
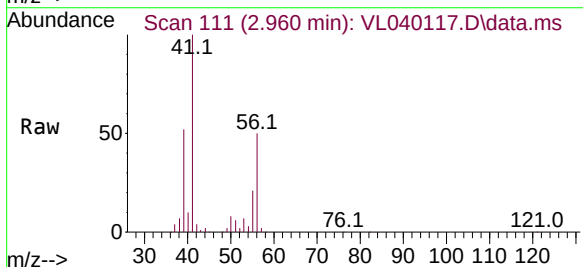
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

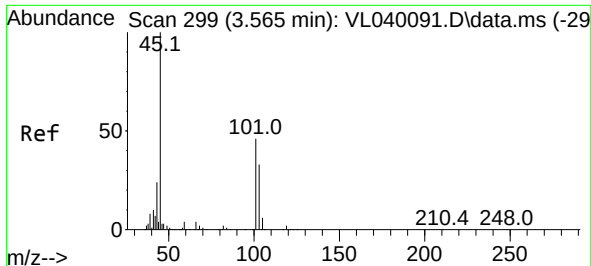
Tgt Ion: 43 Resp: 845249
Ion Ratio Lower Upper
43 100
58 32.9 21.8 32.8#



#16
1,3-Butadiene
Concen: 6.639 ppbv
RT: 2.960 min Scan# 111
Delta R.T. -0.010 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

Tgt Ion: 39 Resp: 401908
Ion Ratio Lower Upper
39 100
54 35.0 67.9 101.9#





#19

Isopropyl Alcohol

Concen: 0.187 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.035 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Instrument :

MSVOA_L

ClientSampleId :

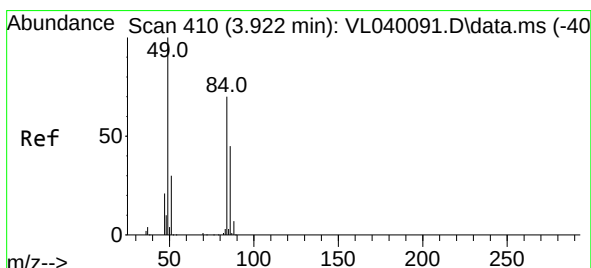
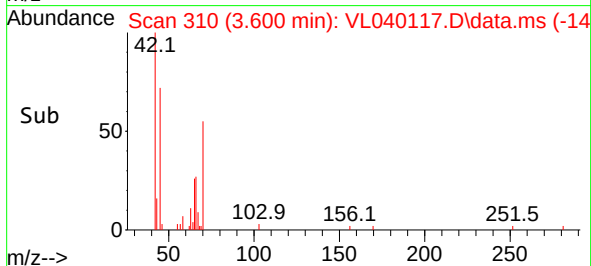
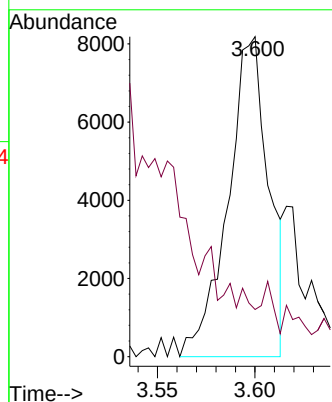
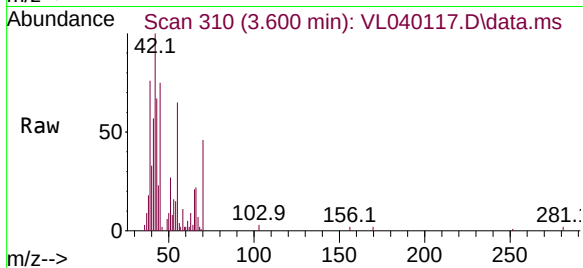
VP-3DL

Tgt Ion: 45 Resp: 11855

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 2.088 ppbv

RT: 3.934 min Scan# 414

Delta R.T. 0.013 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Tgt Ion: 84 Resp: 119627

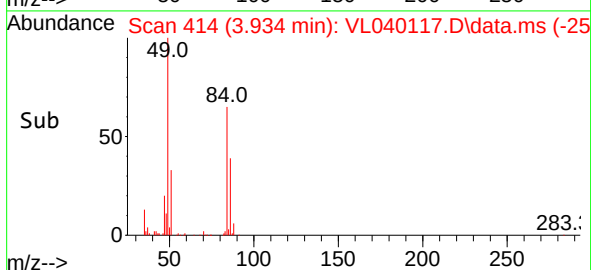
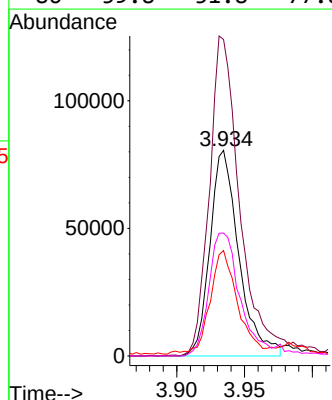
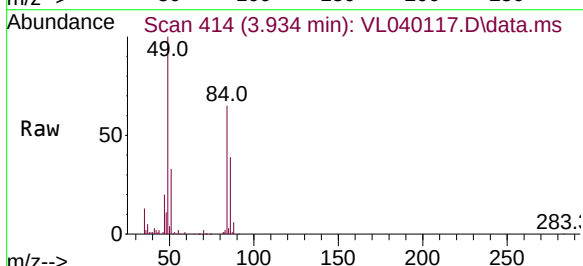
Ion Ratio Lower Upper

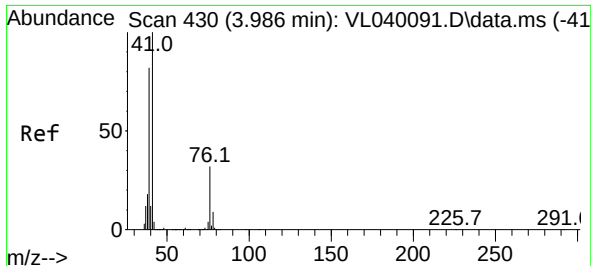
84 100

49 154.0 114.6 171.8

51 49.5 34.3 51.5

86 59.8 51.8 77.8

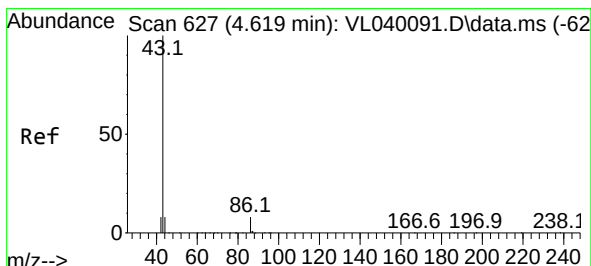
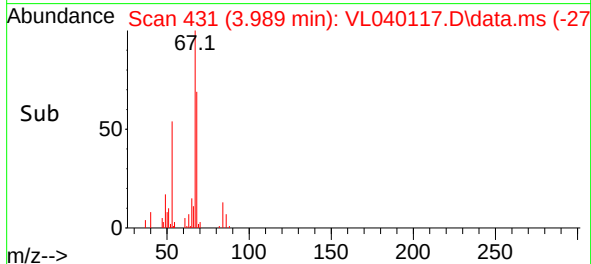
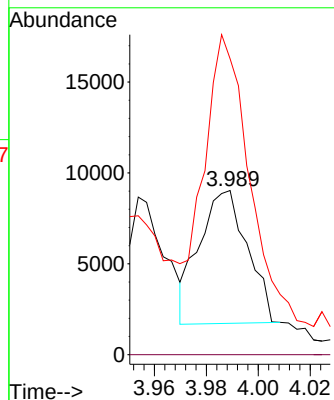
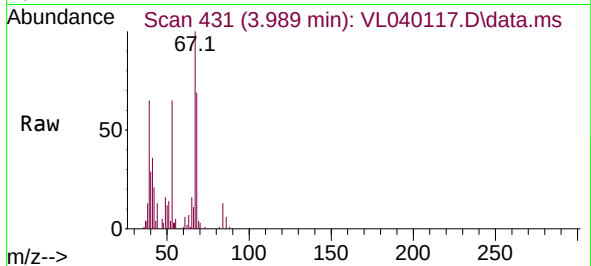




#21
 Allyl Chloride
 Concen: 0.113 ppbv
 RT: 3.989 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040117.D
 Acq: 19 Jan 2023 17:32

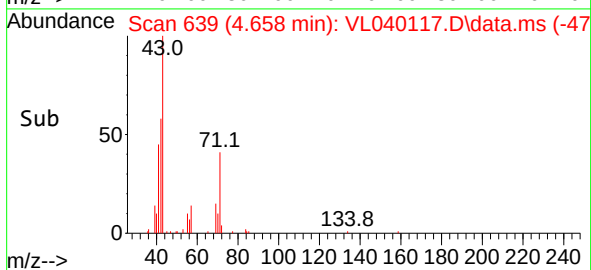
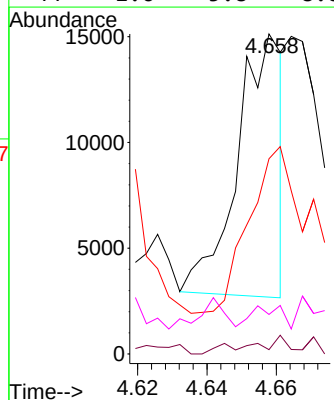
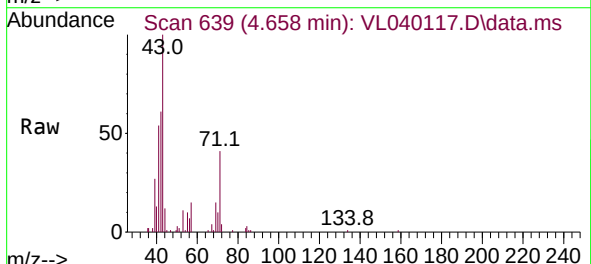
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL

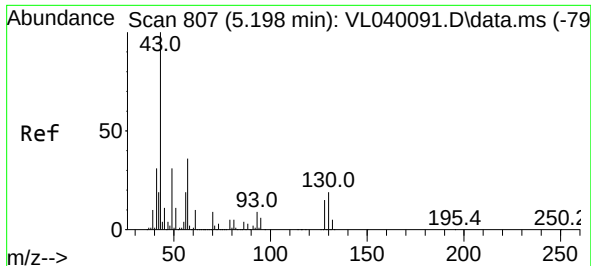
Tgt Ion: 41 Resp: 9385
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.9 38.9#
 39 380.6 66.8 100.2#



#23
 Vinyl Acetate
 Concen: 0.264 ppbv
 RT: 4.658 min Scan# 639
 Delta R.T. 0.038 min
 Lab File: VL040117.D
 Acq: 19 Jan 2023 17:32

Tgt Ion: 43 Resp: 11119
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.6 8.4#
 42 56.7 7.7 11.5#
 44 1.6 5.8 8.8#





#25

Ethyl Acetate

Concen: 0.405 ppbv

RT: 5.217 min Scan# 813

Delta R.T. 0.019 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

Tgt Ion: 43 Resp: 92698

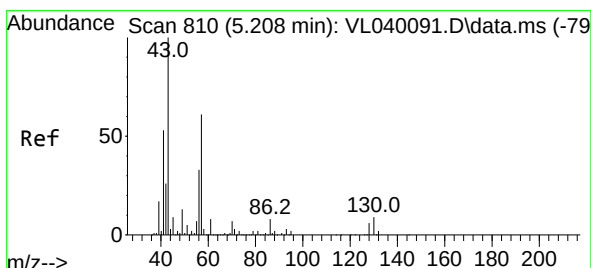
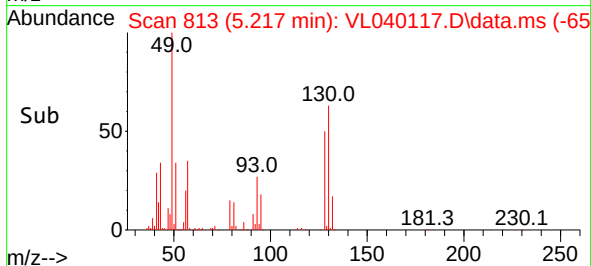
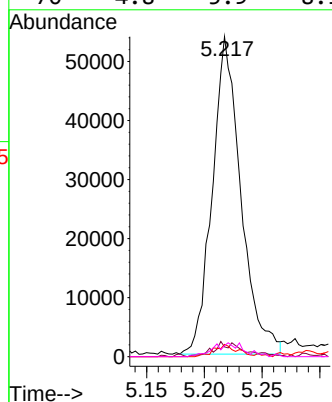
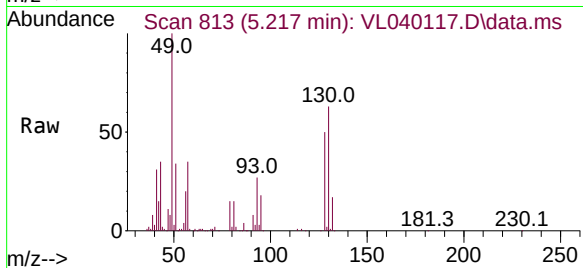
Ion Ratio Lower Upper

43 100

45 5.1 8.5 12.7#

61 3.4 8.4 12.6#

70 4.8 5.9 8.9#



#26

Hexane

Concen: 1.026 ppbv

RT: 5.224 min Scan# 815

Delta R.T. 0.016 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Tgt Ion: 57 Resp: 102742

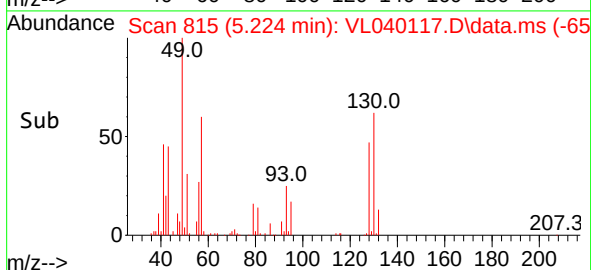
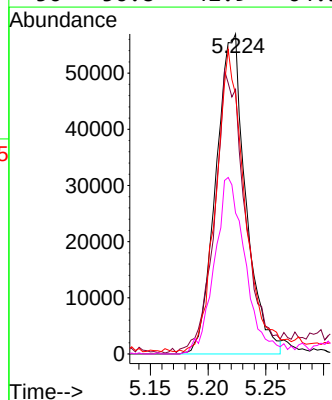
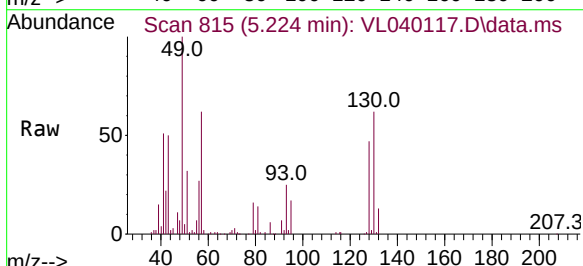
Ion Ratio Lower Upper

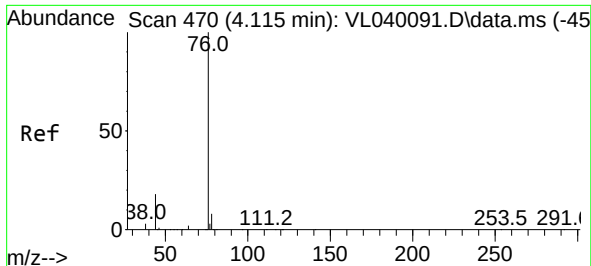
57 100

41 92.4 72.2 108.4

43 96.0 192.1 288.1#

56 56.8 42.9 64.3

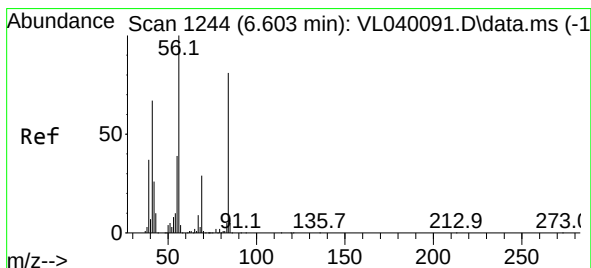
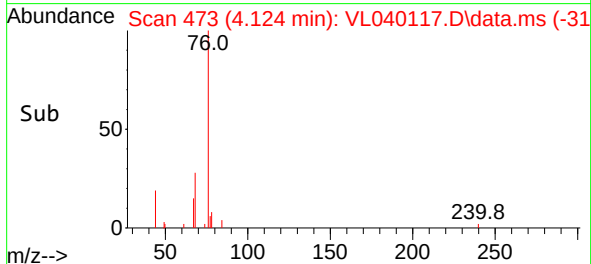
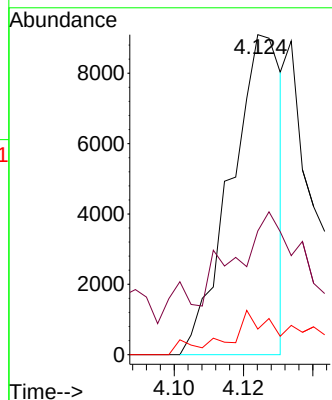
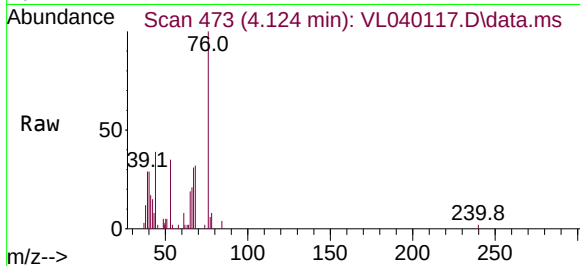




#27
Carbon Disulfide
Concen: 0.071 ppbv
RT: 4.124 min Scan# 41
Delta R.T. 0.009 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

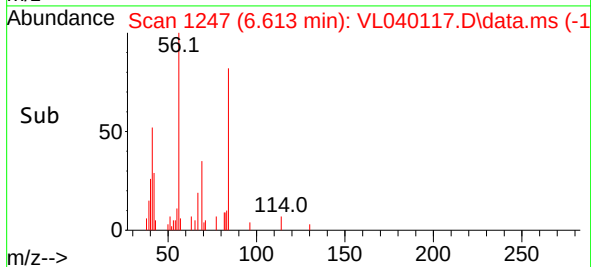
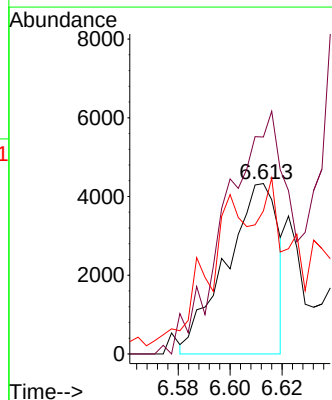
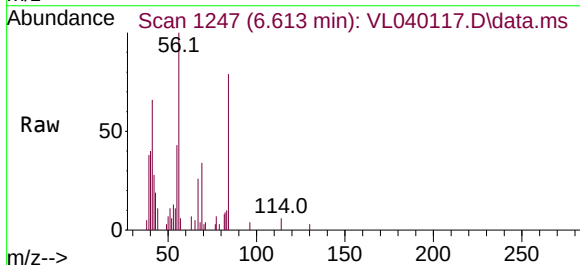
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

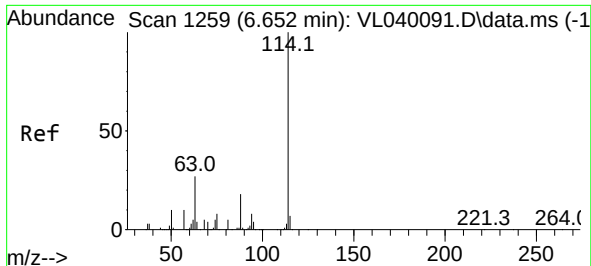
Tgt Ion: 76 Resp: 9155
Ion Ratio Lower Upper
76 100
44 56.7 14.9 22.3#
78 23.6 8.2 12.2#



#30
Cyclohexane
Concen: 0.075 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. 0.009 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

Tgt Ion: 84 Resp: 5965
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 178.1 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 11

Delta R.T. 0.009 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

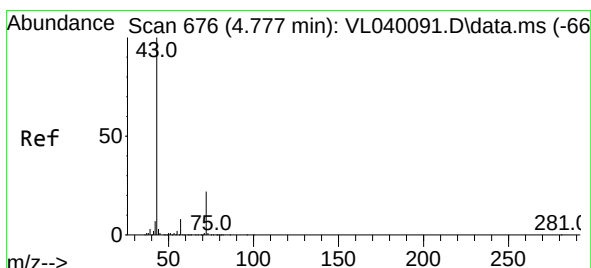
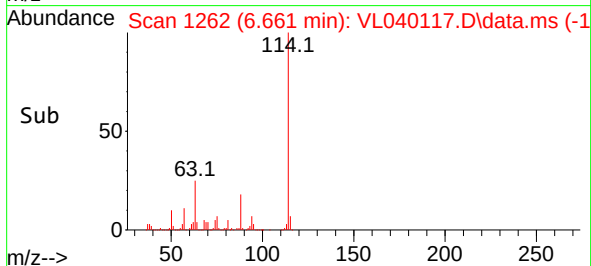
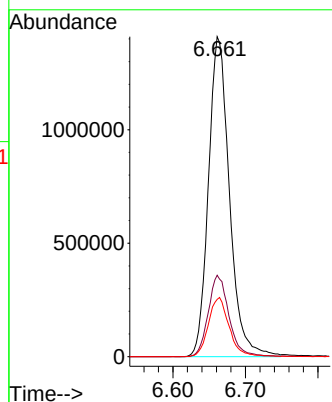
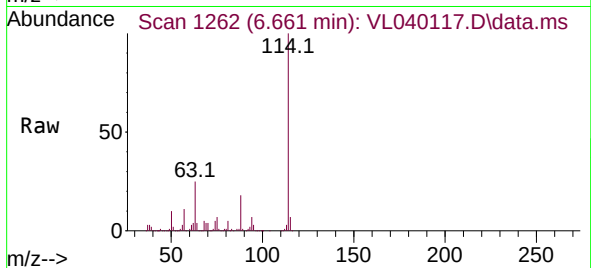
Tgt Ion:114 Resp: 2836881

Ion Ratio Lower Upper

114 100

63 25.4 21.8 32.8

88 18.5 14.8 22.2



#34

2-Butanone

Concen: 2.385 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.019 min

Lab File: VL040117.D

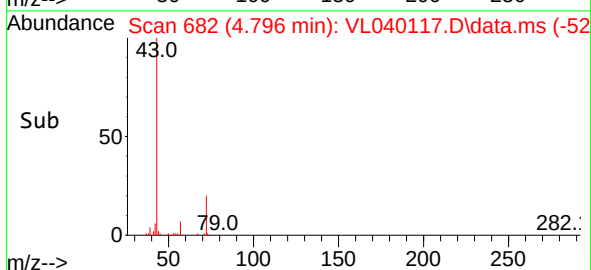
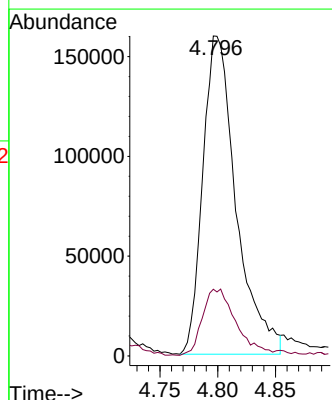
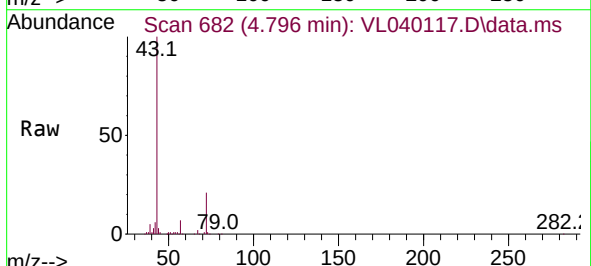
Acq: 19 Jan 2023 17:32

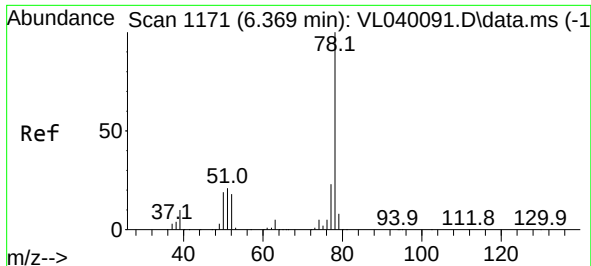
Tgt Ion: 43 Resp: 320099

Ion Ratio Lower Upper

43 100

72 22.2 18.4 27.6

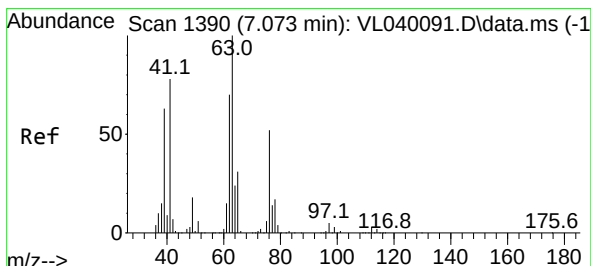
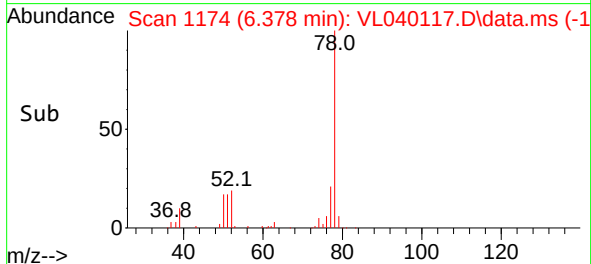
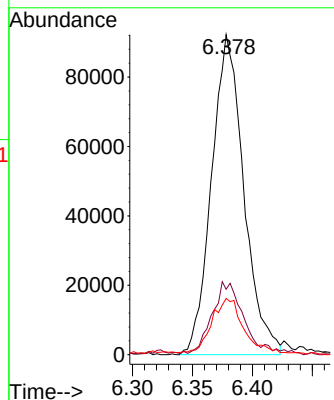
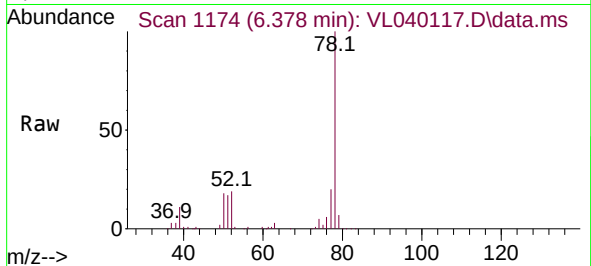




#36
Benzene
Concen: 0.821 ppbv
RT: 6.378 min Scan# 1171
Delta R.T. 0.009 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

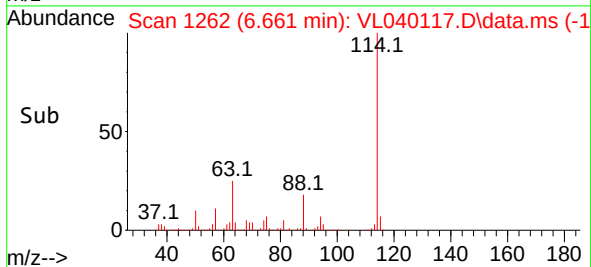
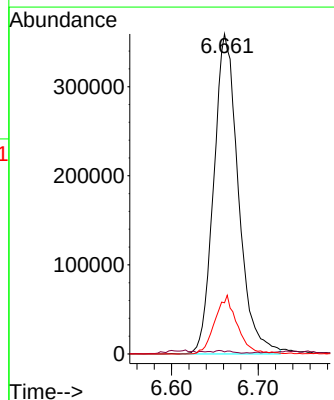
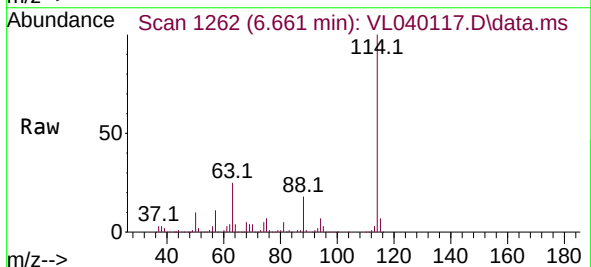
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

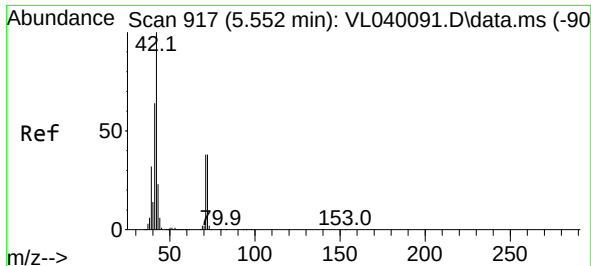
Tgt Ion: 78 Resp: 172282
Ion Ratio Lower Upper
78 100
77 20.1 18.1 27.1
50 16.9 15.6 23.4



#39
1,2-Dichloropropane
Concen: 8.644 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.412 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

Tgt Ion: 63 Resp: 709851
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.4#
62 16.0 55.8 83.8#





#41

Tetrahydrofuran

Concen: 0.393 ppbv

RT: 5.594 min Scan# 917

Delta R.T. 0.042 min

Lab File: VL040117.D

Acq: 19 Jan 2023 17:32

Instrument :

MSVOA_L

ClientSampleId :

VP-3DL

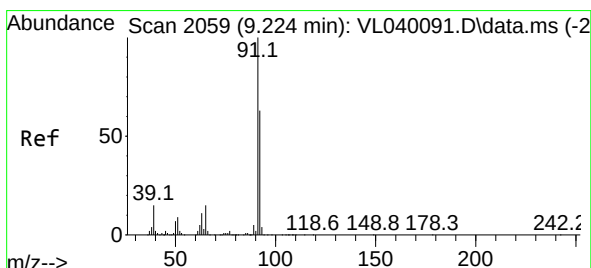
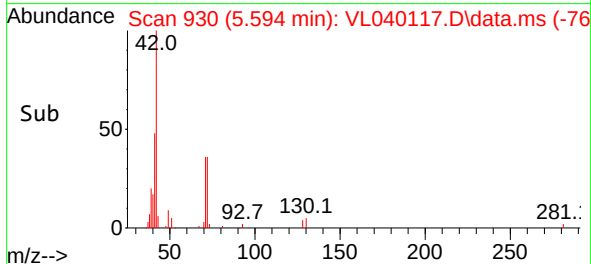
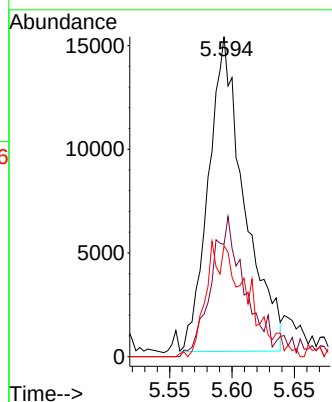
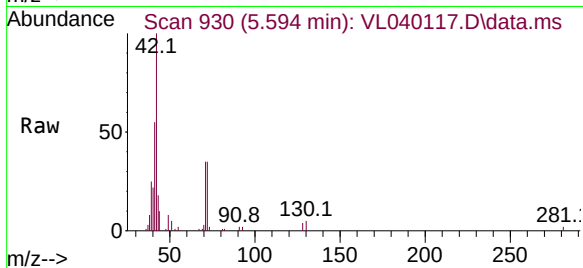
Tgt Ion: 42 Resp: 30418

Ion Ratio Lower Upper

42 100

72 47.0 31.9 47.9

71 41.2 31.4 47.2



#53

Toluene

Concen: 0.196 ppbv

RT: 9.240 min Scan# 2064

Delta R.T. 0.016 min

Lab File: VL040117.D

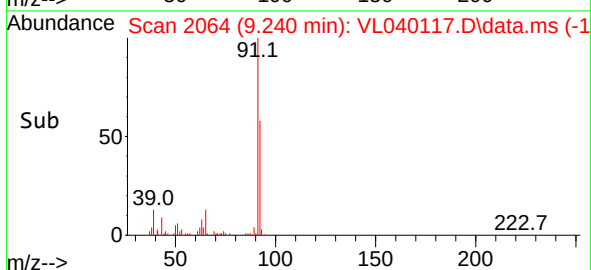
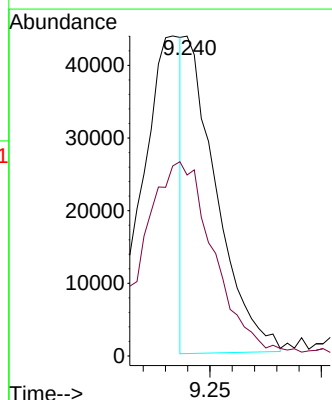
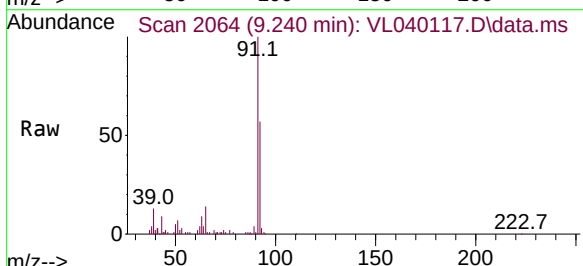
Acq: 19 Jan 2023 17:32

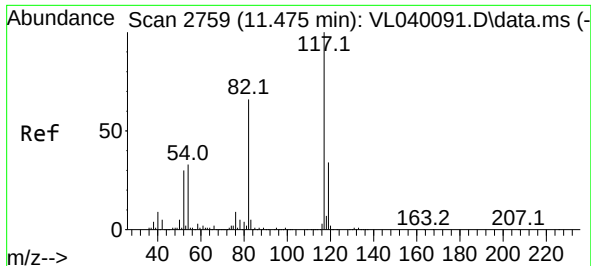
Tgt Ion: 91 Resp: 43870

Ion Ratio Lower Upper

91 100

92 137.5 48.3 72.5#

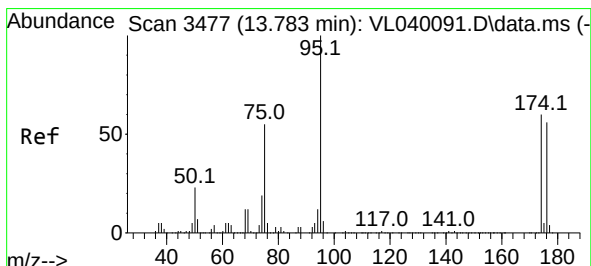
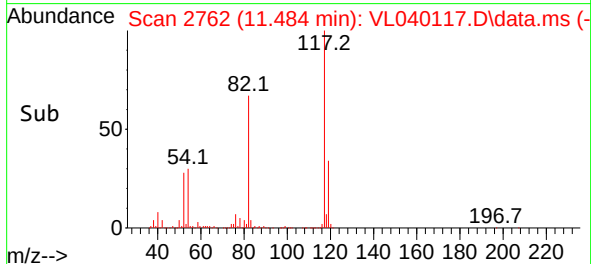
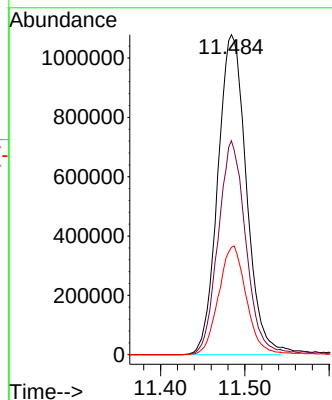
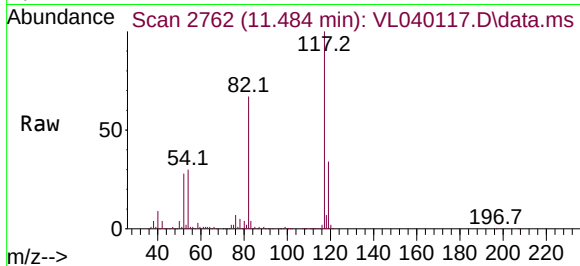




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.009 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

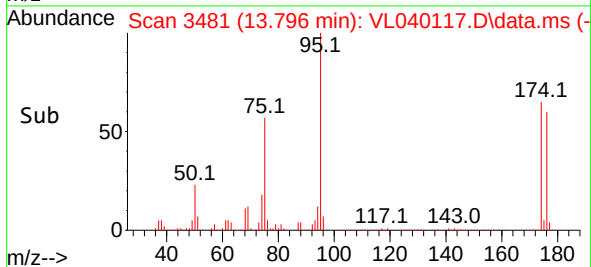
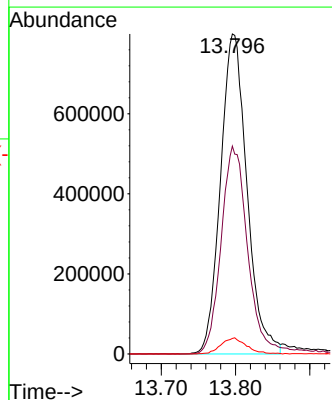
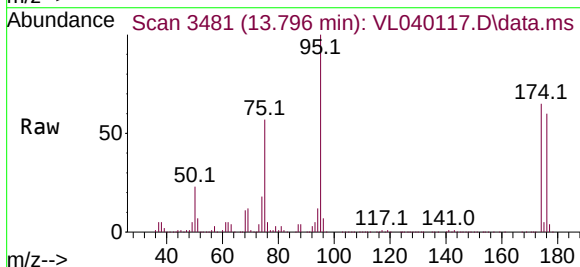
Instrument :
MSVOA_L
ClientSampleId :
VP-3DL

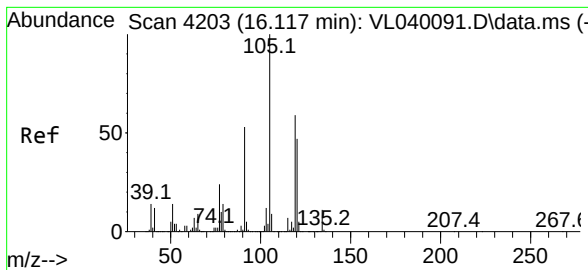
Tgt Ion:117 Resp: 2526662
Ion Ratio Lower Upper
117 100
82 66.0 54.4 81.6
119 33.5 26.8 40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.425 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.013 min
Lab File: VL040117.D
Acq: 19 Jan 2023 17:32

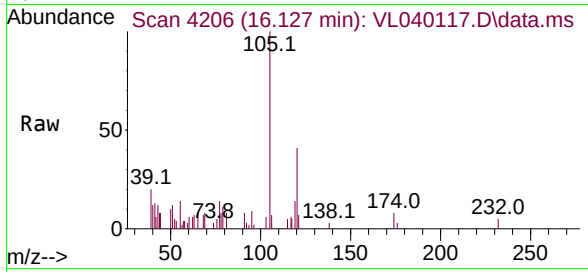
Tgt Ion: 95 Resp: 1979081
Ion Ratio Lower Upper
95 100
174 66.7 47.7 71.5
175 4.9 3.4 5.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.127 min Scan# 41
 Delta R.T. 0.009 min
 Lab File: VL040117.D
 Acq: 19 Jan 2023 17:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-3DL



Tgt Ion:	105	Resp:	8304
Ion	Ratio	Lower	Upper
105	100		
120	37.8	38.0	57.0#
91	3.5	42.1	63.1#
77	16.1	19.3	28.9#

