

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040188.D
 Acq On : 16 Feb 2023 21:41
 Operator : SY/MD
 Sample : 01550-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

Quant Time: Feb 17 03:32:44 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 : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

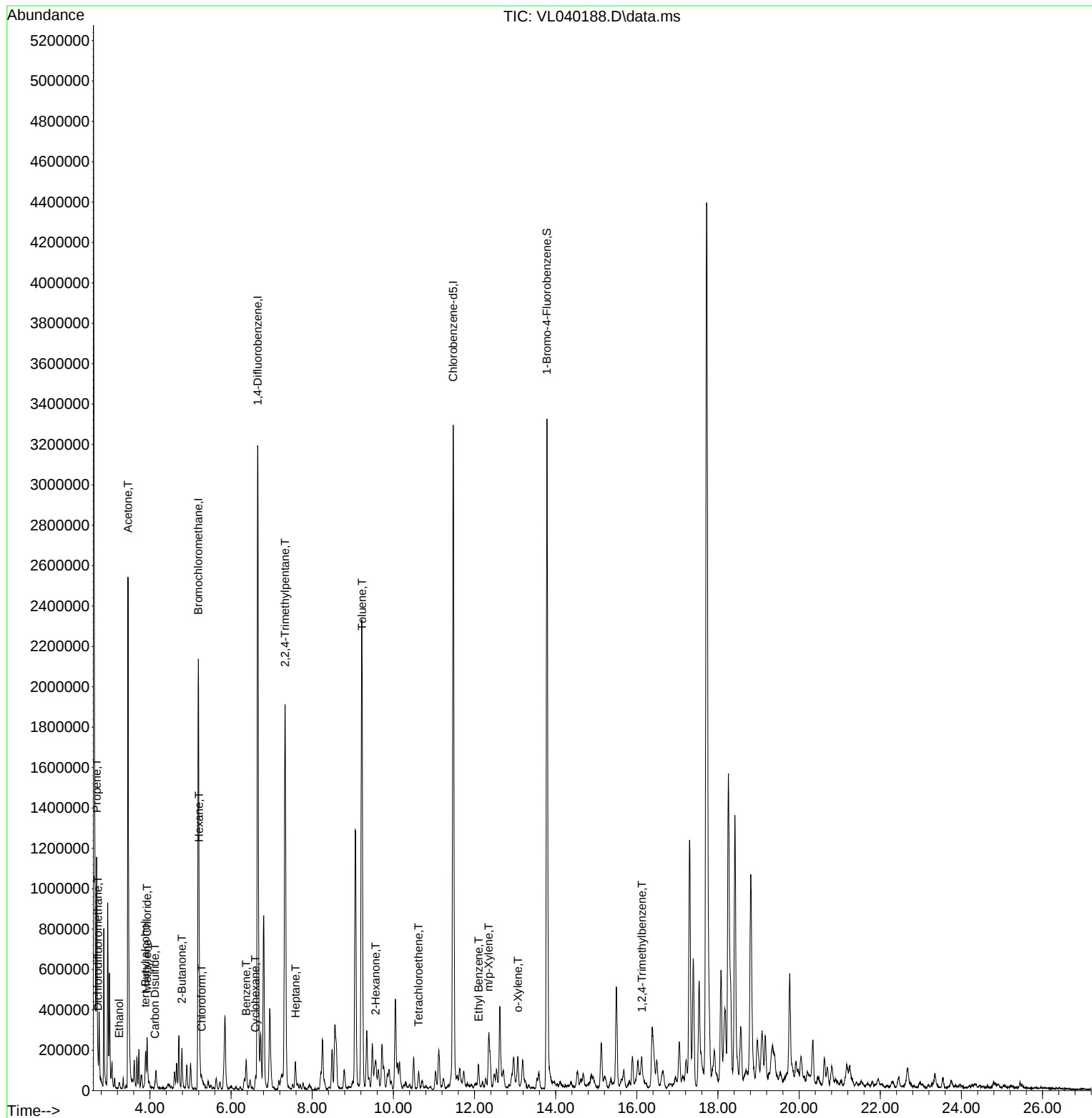
Internal Standards						
1) Bromochloromethane	5.192	49	987271	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.658	114	2531287	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.475	117	2229772	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1682579	9.177	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	21430	0.116	ppbv	97
9) Propene	2.687	41	420994	8.757	ppbv	92
10) Heptane	7.587	43	60852	0.532	ppbv #	26
13) Ethanol	3.240	45	32363	7.312	ppbv	90
15) Acetone	3.459	43	2515580	21.164	ppbv	94
17) tert-Butyl alcohol	3.890	59	131249	1.211	ppbv	98
20) Methylene Chloride	3.931	84	70331	1.137	ppbv	92
26) Hexane	5.211	57	163041	1.719	ppbv #	37
27) Carbon Disulfide	4.121	76	20271	0.168	ppbv #	63
29) Chloroform	5.275	83	17157	0.105	ppbv	84
30) Cyclohexane	6.600	84	24633	0.331	ppbv	86
34) 2-Butanone	4.787	43	227025	1.818	ppbv	97
36) Benzene	6.372	78	115224	0.585	ppbv	98
44) 2,2,4-Trimethylpentane	7.333	57	1993813	6.063	ppbv	95
51) 2-Hexanone	9.565	43	116036	0.778	ppbv #	98
52) Tetrachloroethene	10.622	164	20197m	0.328	ppbv	
53) Toluene	9.230	91	284789	1.350	ppbv	100
58) Ethyl Benzene	12.102	91	95170	0.351	ppbv #	87
59) m/p-Xylene	12.349	91	265706	1.107	ppbv	93
60) o-Xylene	13.069	91	112788	0.488	ppbv	94
74) 1,2,4-Trimethylbenzene	16.124	105	111626	0.428	ppbv #	69

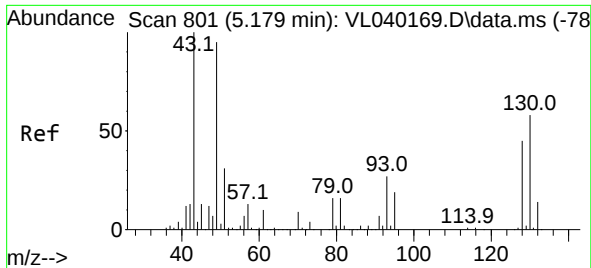
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 17 03:32:44 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 : Wed Feb 15 17:01:01 2023
Response via : Initial Calibration

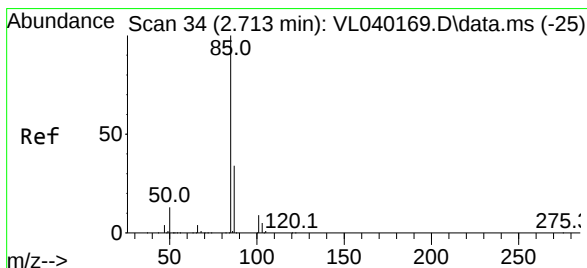
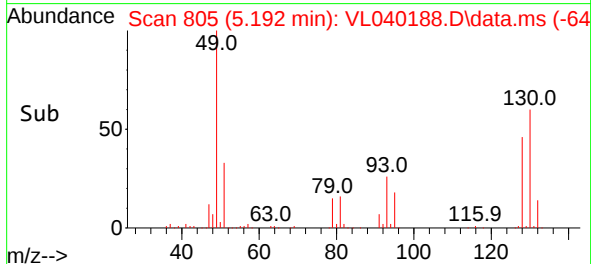
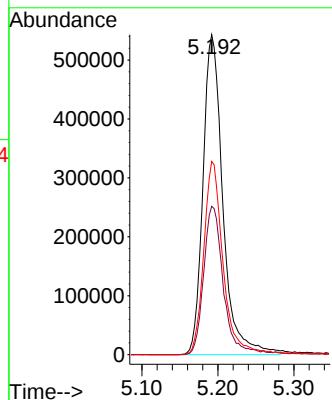
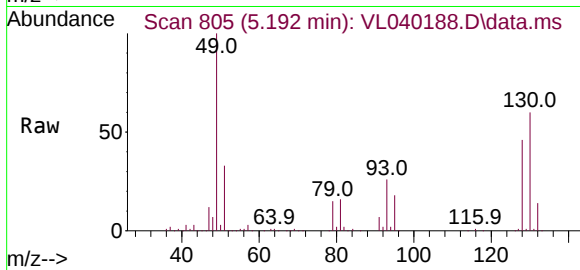




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VL040188.D
 Acq: 16 Feb 2023 21:41

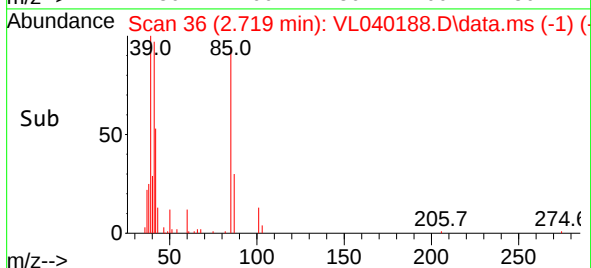
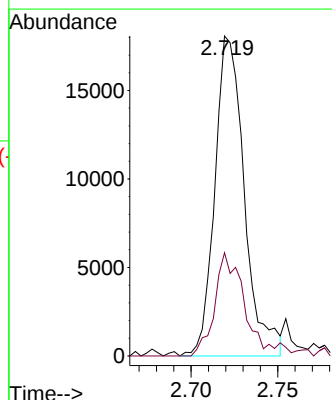
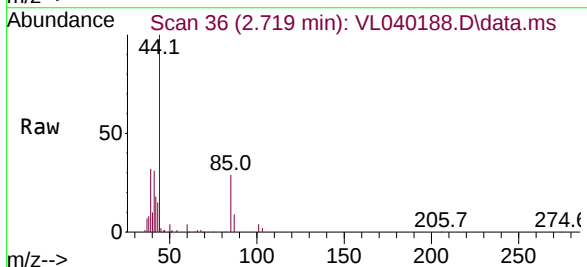
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL

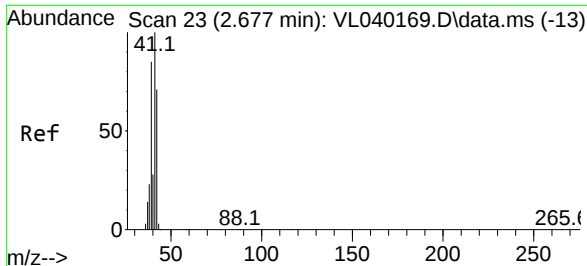
Tgt Ion: 49 Resp: 987271
 Ion Ratio Lower Upper
 49 100
 128 46.5 24.1 72.3
 130 59.5 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.116 ppbv
 RT: 2.719 min Scan# 36
 Delta R.T. 0.006 min
 Lab File: VL040188.D
 Acq: 16 Feb 2023 21:41

Tgt Ion: 85 Resp: 21430
 Ion Ratio Lower Upper
 85 100
 87 32.2 27.0 40.6

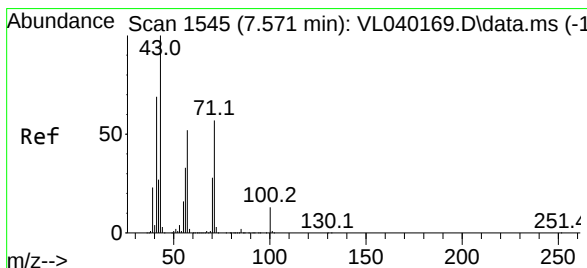
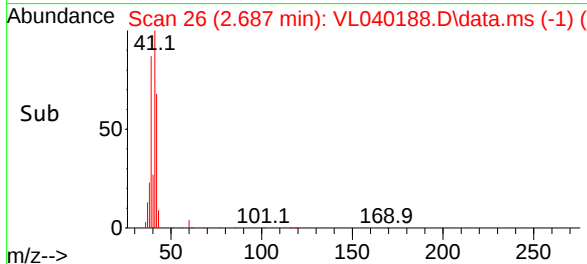
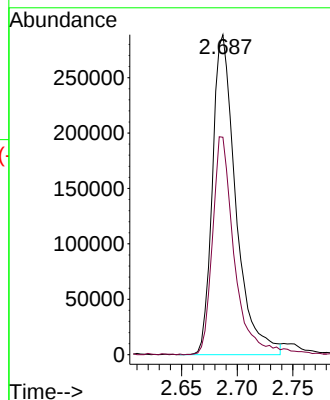
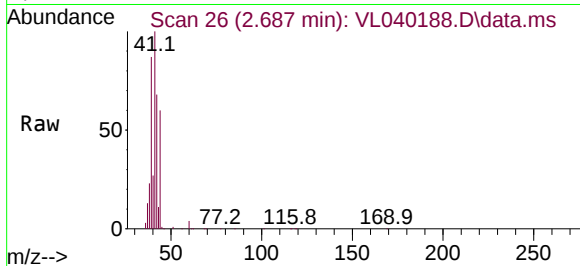




#9
Propene
Concen: 8.757 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

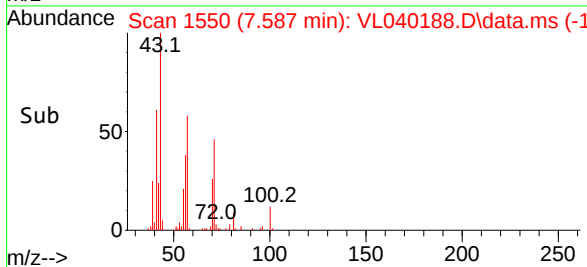
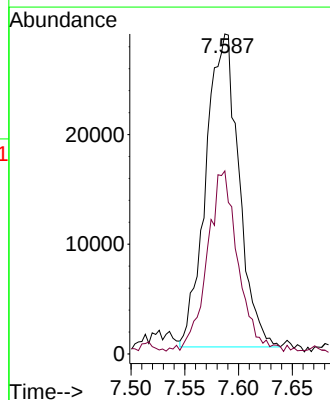
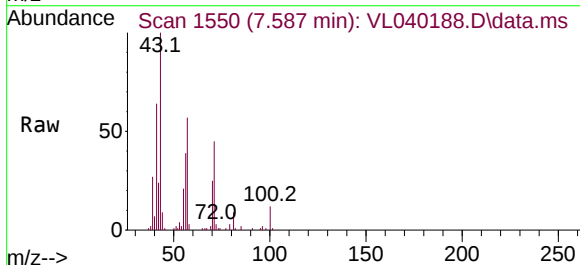
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

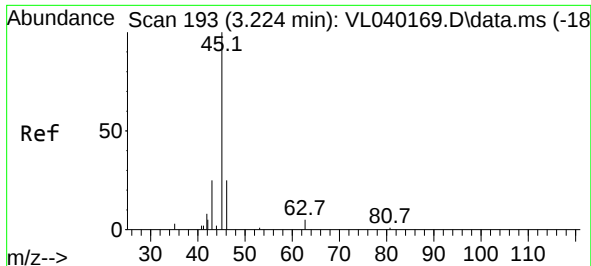
Tgt Ion: 41 Resp: 420994
Ion Ratio Lower Upper
41 100
42 64.1 56.9 85.3



#10
Heptane
Concen: 0.532 ppbv
RT: 7.587 min Scan# 1550
Delta R.T. 0.016 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 43 Resp: 60852
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.2#

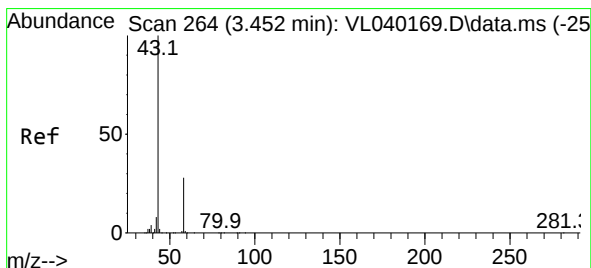
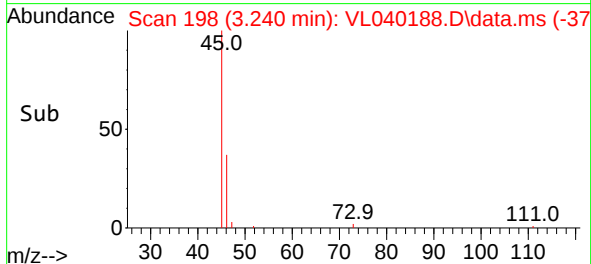
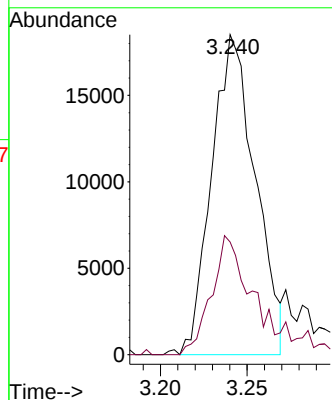
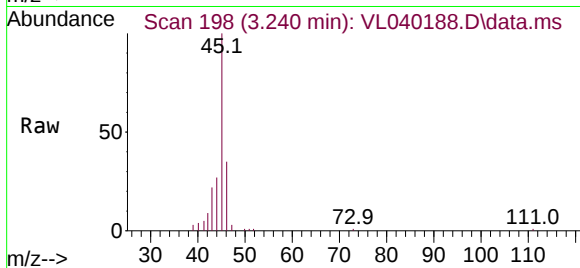




#13
Ethanol
Concen: 7.312 ppbv
RT: 3.240 min Scan# 193
Delta R.T. 0.016 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

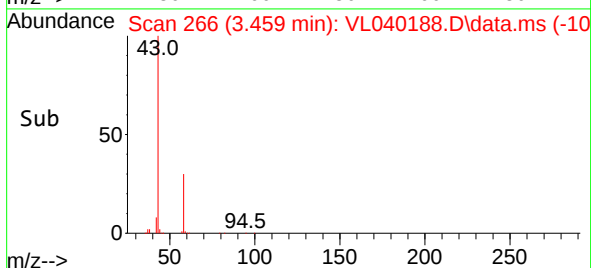
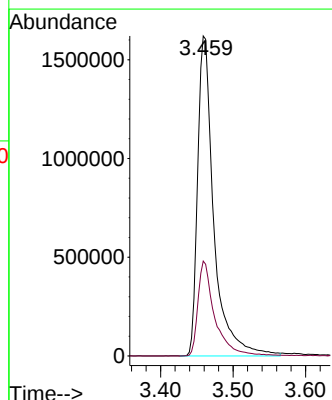
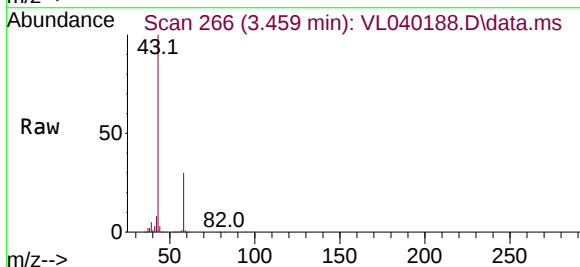
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

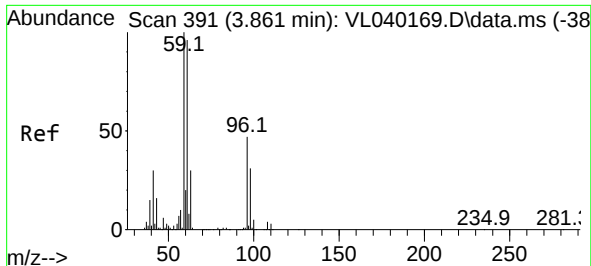
Tgt Ion: 45 Resp: 32363
Ion Ratio Lower Upper
45 100
46 38.9 13.3 53.1



#15
Acetone
Concen: 21.164 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.006 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 43 Resp: 2515580
Ion Ratio Lower Upper
43 100
58 31.3 22.4 33.6





#17

tert-Butyl alcohol

Concen: 1.211 ppbv

RT: 3.890 min Scan# 40

Delta R.T. 0.029 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Instrument :

MSVOA_L

ClientSampleId :

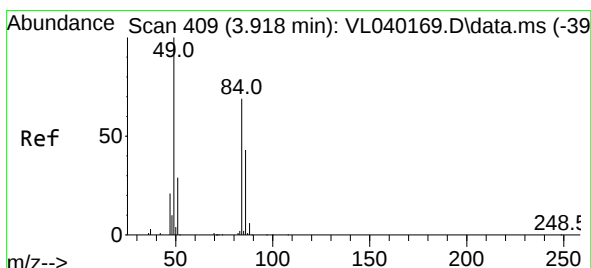
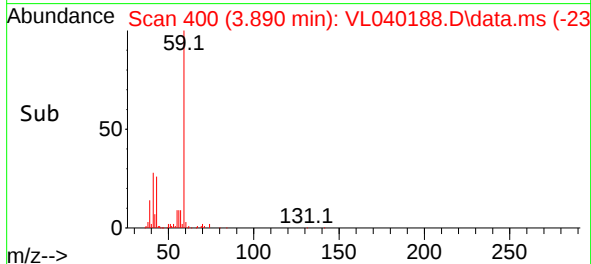
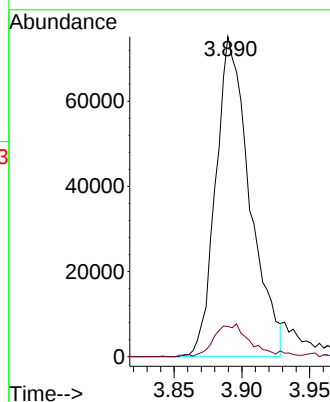
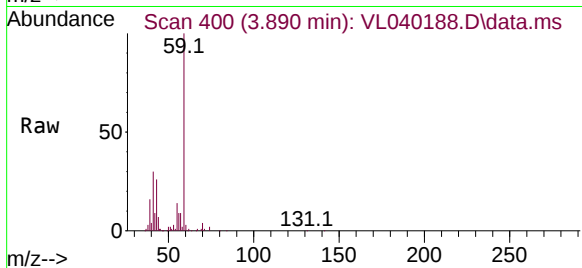
SVP-05DL

Tgt Ion: 59 Resp: 131249

Ion Ratio Lower Upper

59 100

57 11.5 8.5 12.7



#20

Methylene Chloride

Concen: 1.137 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.013 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Tgt Ion: 84 Resp: 70331

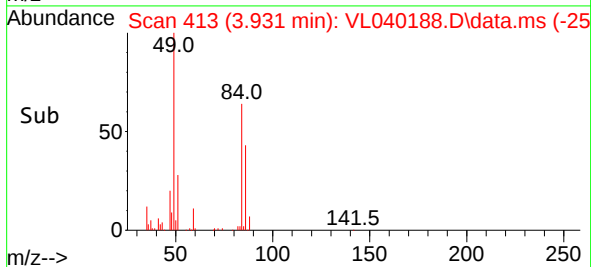
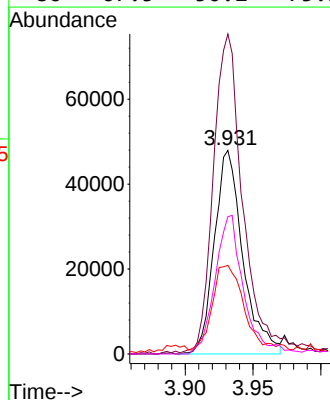
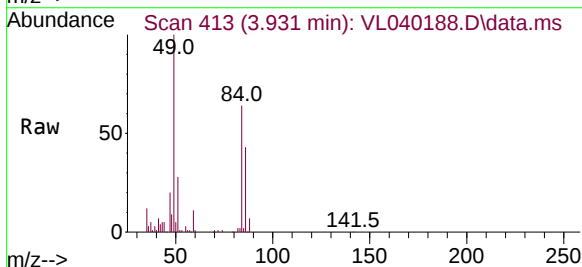
Ion Ratio Lower Upper

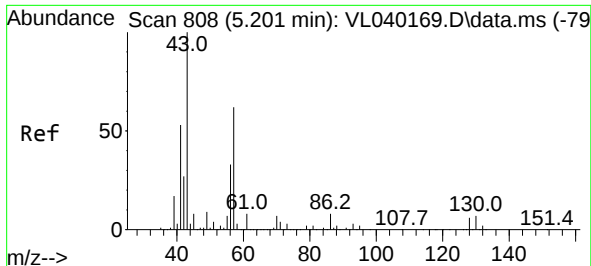
84 100

49 156.6 115.5 173.3

51 40.3 33.1 49.7

86 67.5 50.2 75.2

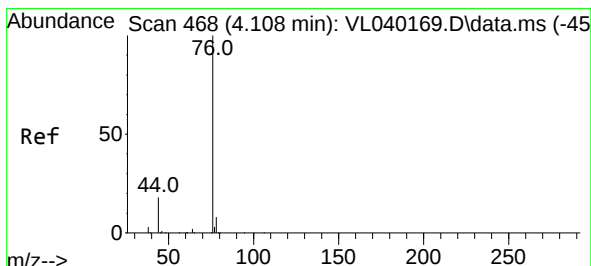
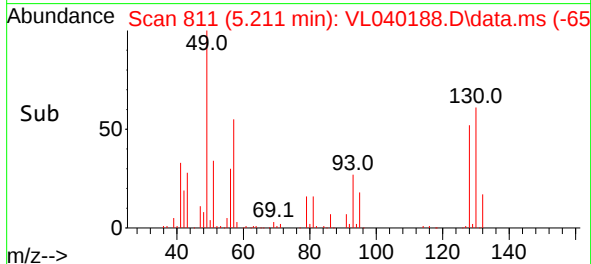
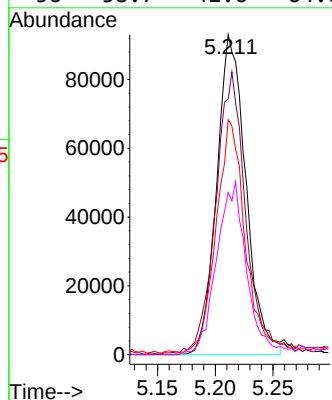
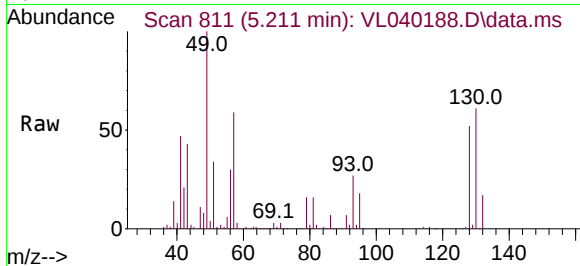




#26
Hexane
Concen: 1.719 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

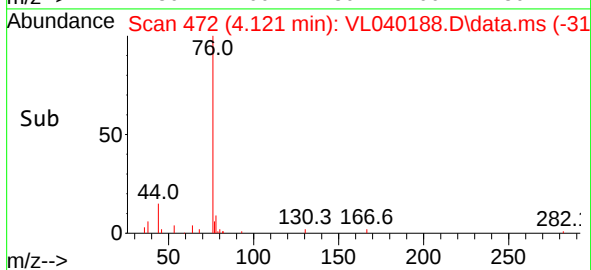
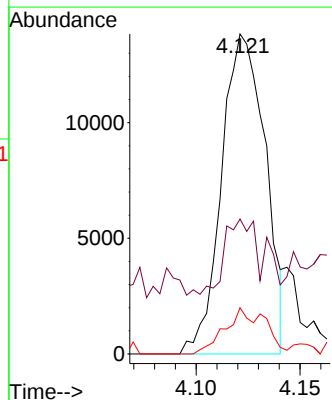
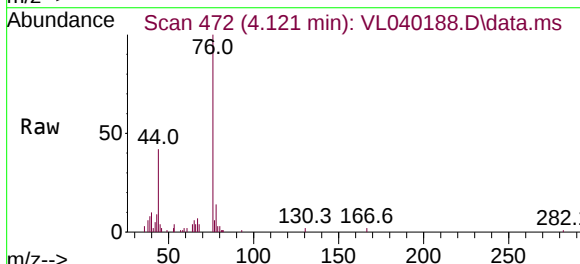
Instrument :
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SVP-05DL

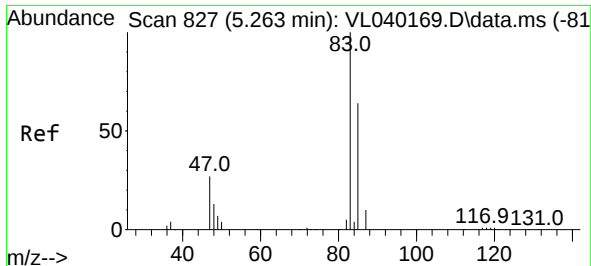
Tgt Ion: 57 Resp: 163041
Ion Ratio Lower Upper
57 100
41 91.4 74.3 111.5
43 72.3 193.0 289.4#
56 58.7 42.6 64.0



#27
Carbon Disulfide
Concen: 0.168 ppbv
RT: 4.121 min Scan# 472
Delta R.T. 0.013 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 76 Resp: 20271
Ion Ratio Lower Upper
76 100
44 40.7 15.3 22.9#
78 15.1 7.7 11.5#





#29

Chloroform

Concen: 0.105 ppbv

RT: 5.275 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Instrument :

MSVOA_L

ClientSampleId :

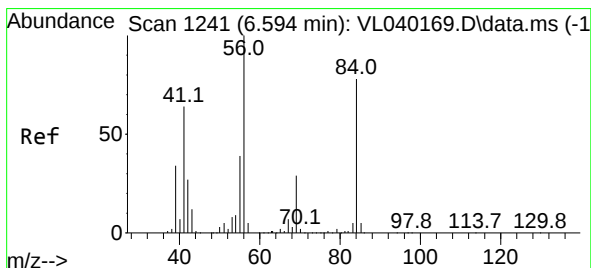
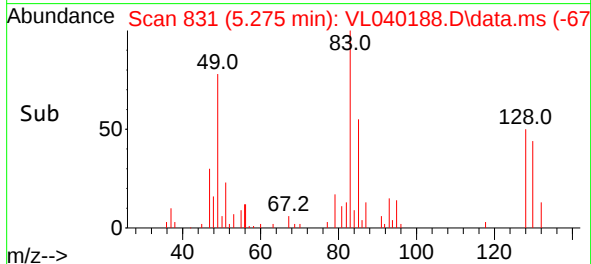
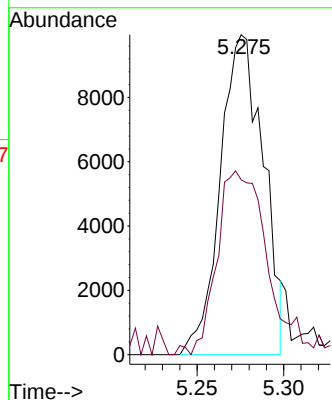
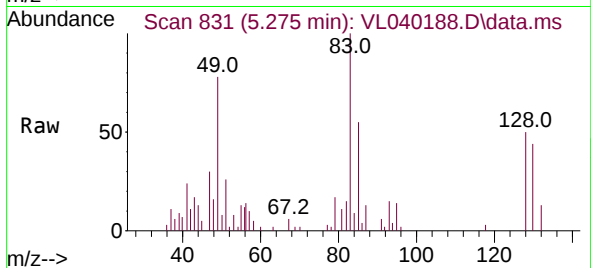
SVP-05DL

Tgt Ion: 83 Resp: 17157

Ion Ratio Lower Upper

83 100

85 51.8 51.5 77.3



#30

Cyclohexane

Concen: 0.331 ppbv

RT: 6.600 min Scan# 1243

Delta R.T. 0.006 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

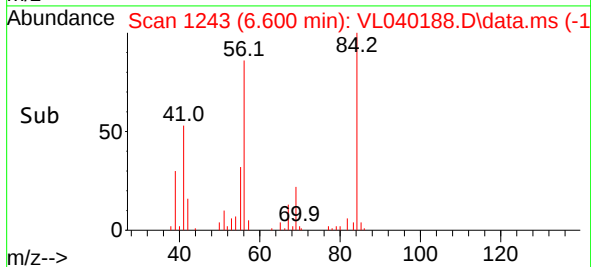
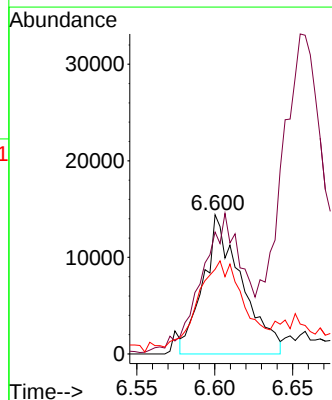
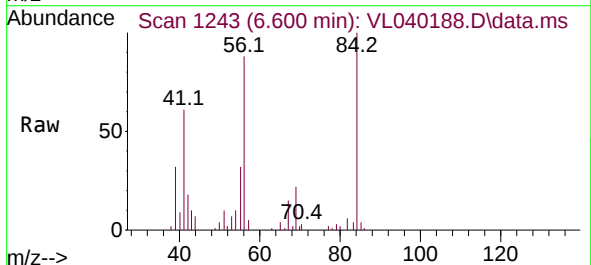
Tgt Ion: 84 Resp: 24633

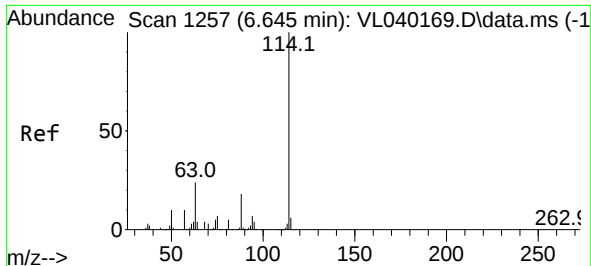
Ion Ratio Lower Upper

84 100

56 114.2 109.9 164.9

41 88.6 67.8 101.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Instrument :

MSVOA_L

ClientSampleId :

SVP-05DL

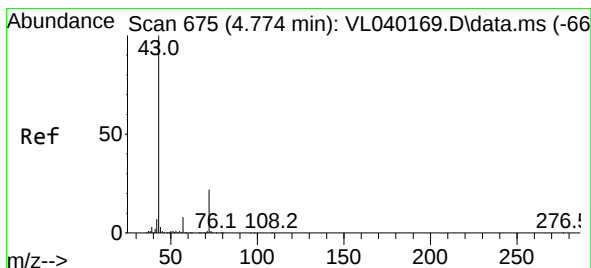
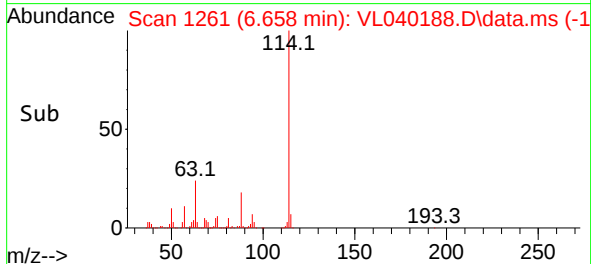
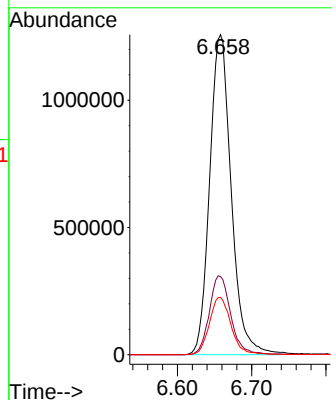
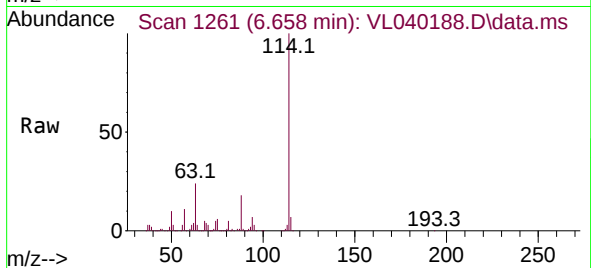
Tgt Ion:114 Resp: 2531287

Ion Ratio Lower Upper

114 100

63 24.6 20.4 30.6

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 1.818 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.013 min

Lab File: VL040188.D

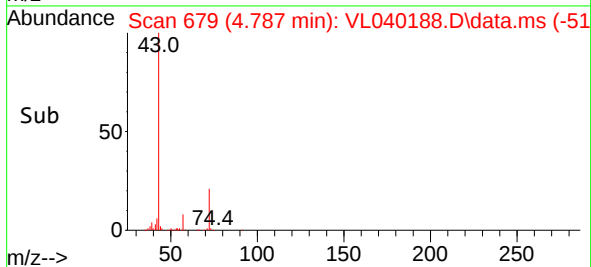
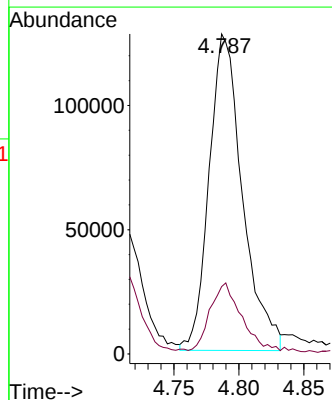
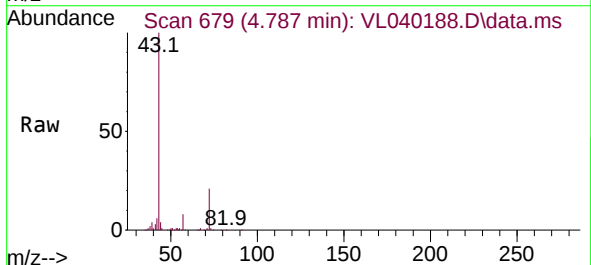
Acq: 16 Feb 2023 21:41

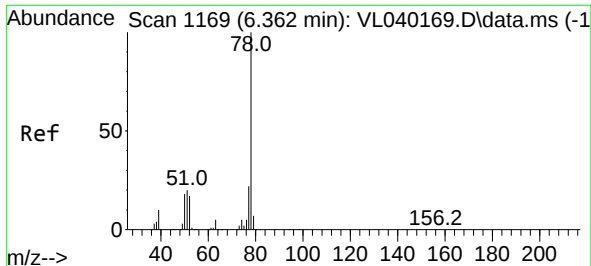
Tgt Ion: 43 Resp: 227025

Ion Ratio Lower Upper

43 100

72 23.6 17.8 26.8

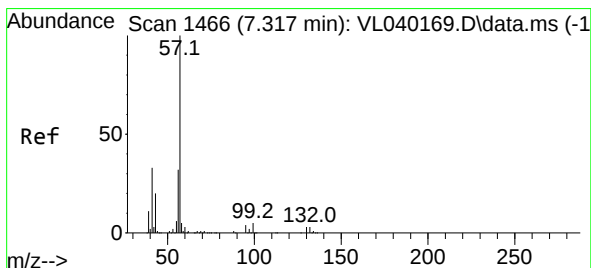
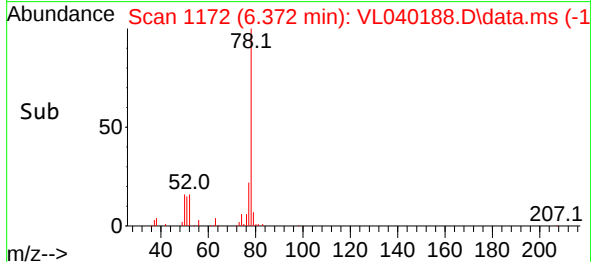
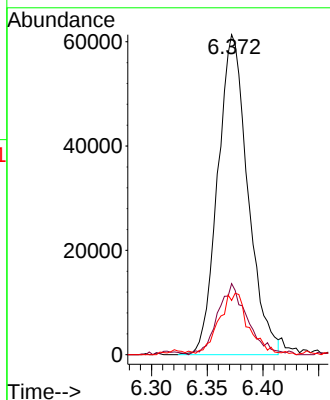
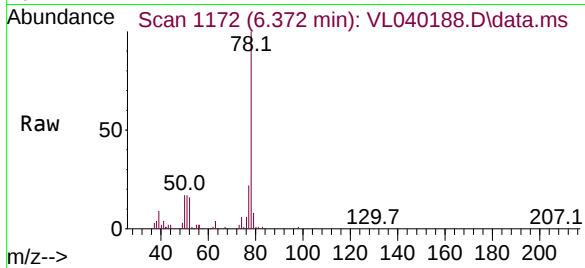




#36
Benzene
Concen: 0.585 ppbv
RT: 6.372 min Scan# 1169
Delta R.T. 0.010 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

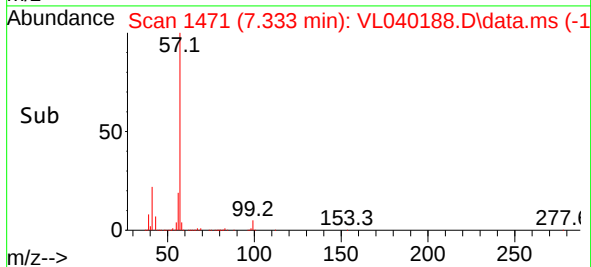
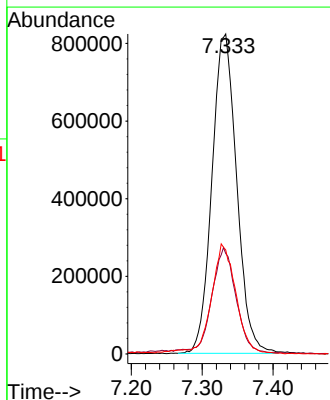
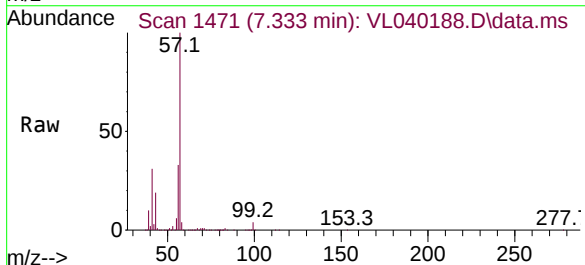
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

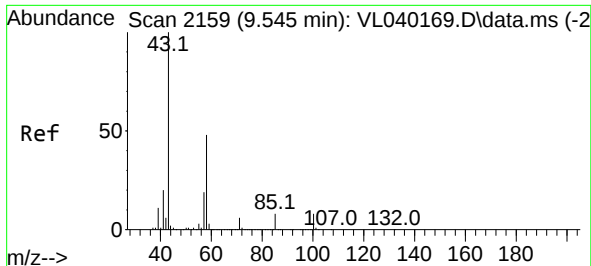
Tgt Ion: 78 Resp: 115224
Ion Ratio Lower Upper
78 100
77 21.5 17.5 26.3
50 16.3 14.6 22.0



#44
2,2,4-Trimethylpentane
Concen: 6.063 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. 0.016 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 57 Resp: 1993813
Ion Ratio Lower Upper
57 100
41 34.2 26.2 39.4
56 35.0 24.9 37.3

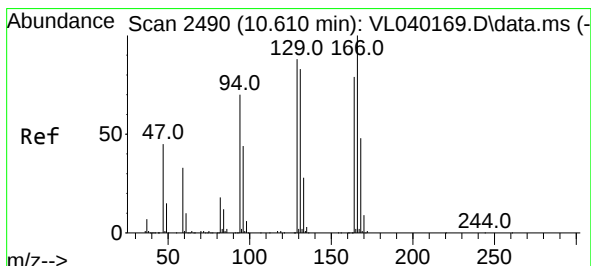
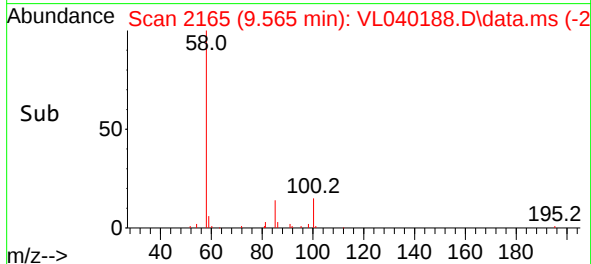
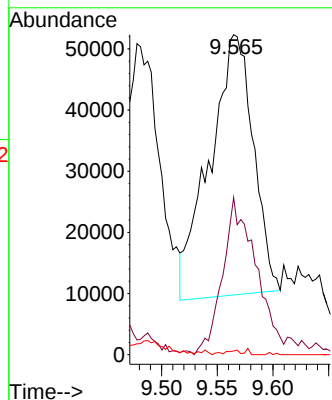
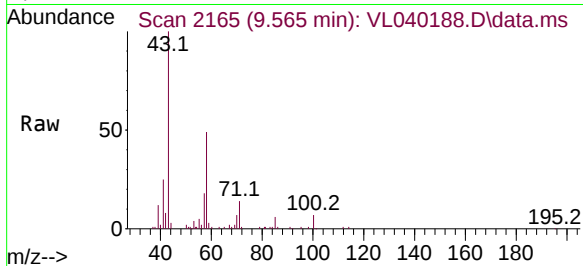




#51
2-Hexanone
Concen: 0.778 ppbv
RT: 9.565 min Scan# 2159
Delta R.T. 0.019 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

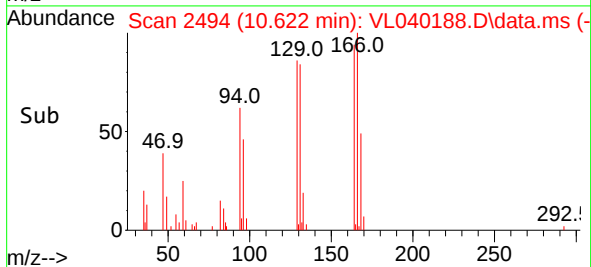
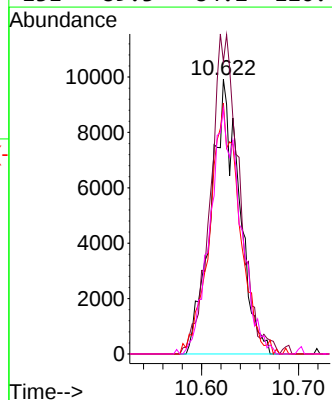
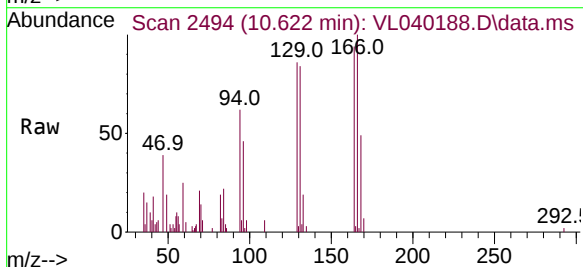
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

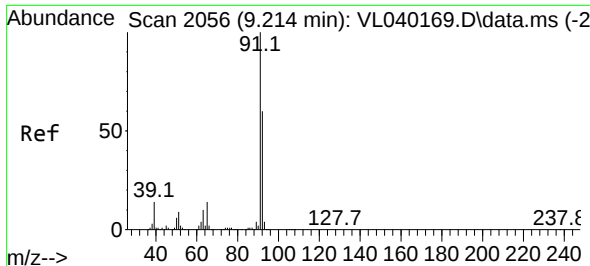
Tgt Ion: 43 Resp: 116036
Ion Ratio Lower Upper
43 100
58 50.4 39.1 58.7
98 0.8 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.328 ppbv m
RT: 10.622 min Scan# 2494
Delta R.T. 0.013 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 164 Resp: 20197
Ion Ratio Lower Upper
164 100
166 106.5 101.5 152.3
129 91.4 89.0 133.4
131 89.3 84.2 126.4

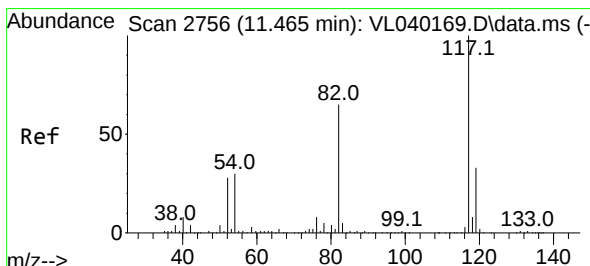
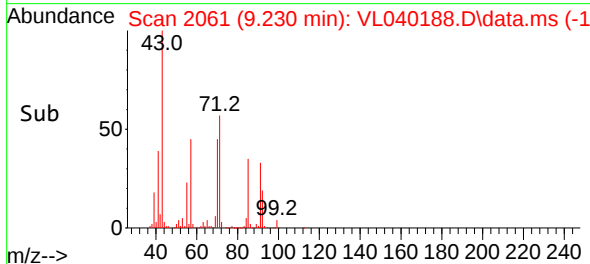
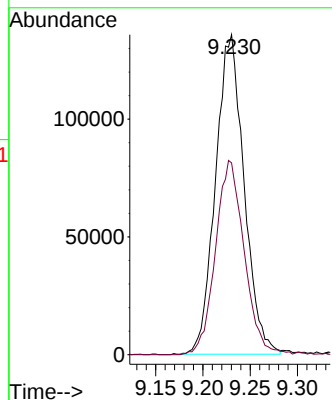
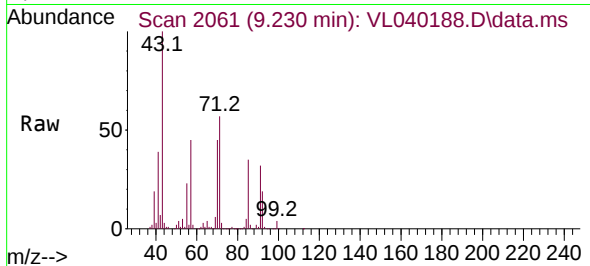




#53
Toluene
Concen: 1.350 ppbv
RT: 9.230 min Scan# 2056
Delta R.T. 0.016 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

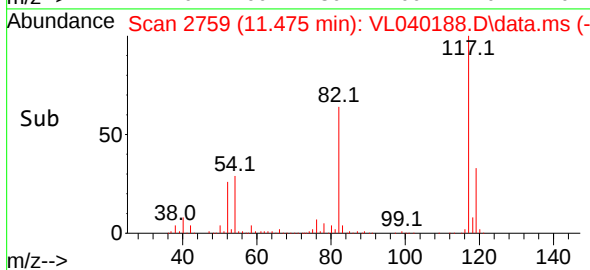
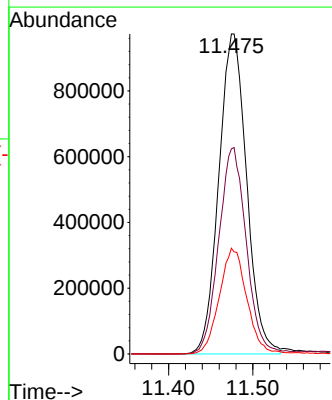
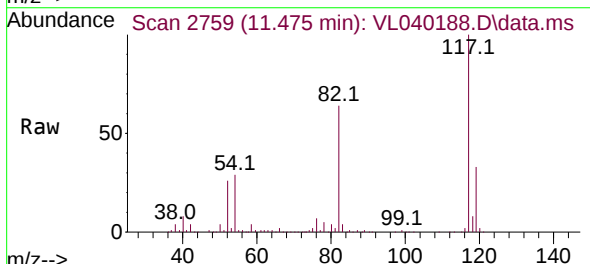
Instrument :
MSVOA_L
ClientSampleId :
SVP-05DL

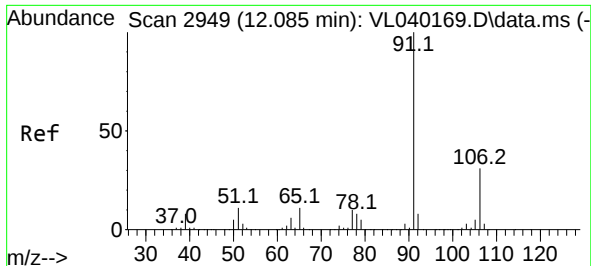
Tgt Ion: 91 Resp: 284789
Ion Ratio Lower Upper
91 100
92 61.4 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.475 min Scan# 2759
Delta R.T. 0.010 min
Lab File: VL040188.D
Acq: 16 Feb 2023 21:41

Tgt Ion: 117 Resp: 2229772
Ion Ratio Lower Upper
117 100
82 64.1 53.3 79.9
119 32.9 24.6 37.0





#58

Ethyl Benzene

Concen: 0.351 ppbv

RT: 12.102 min Scan# 2949

Delta R.T. 0.016 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Instrument :

MSVOA_L

ClientSampleId :

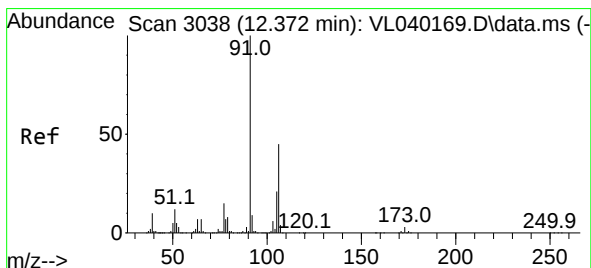
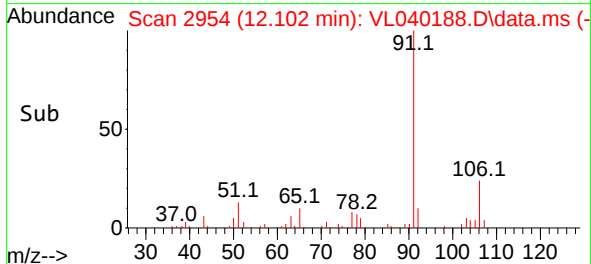
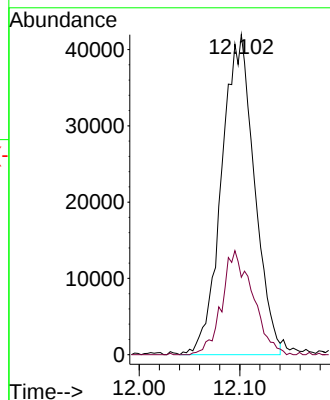
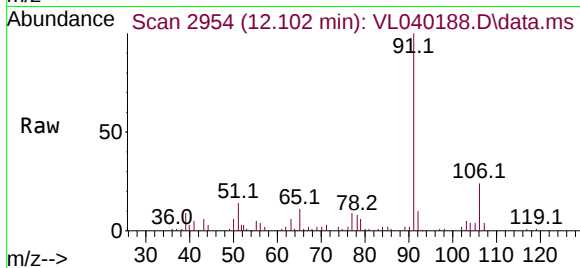
SVP-05DL

Tgt Ion: 91 Resp: 95170

Ion Ratio Lower Upper

91 100

106 24.2 24.9 37.3#



#59

m/p-Xylene

Concen: 1.107 ppbv

RT: 12.349 min Scan# 3031

Delta R.T. -0.022 min

Lab File: VL040188.D

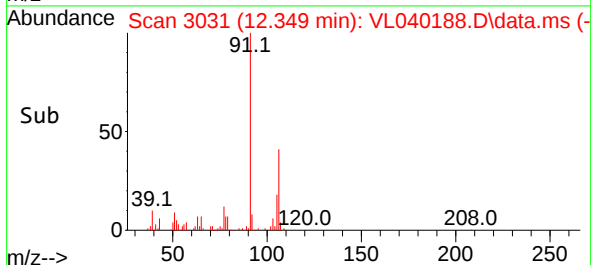
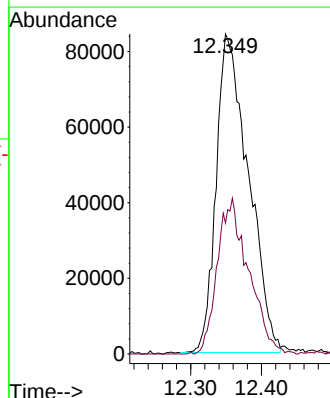
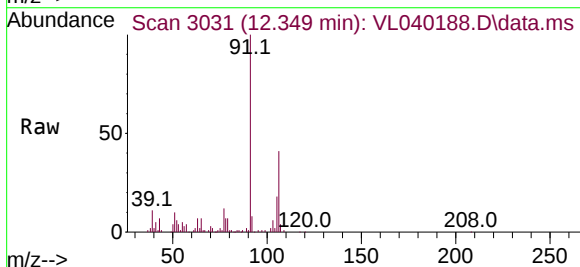
Acq: 16 Feb 2023 21:41

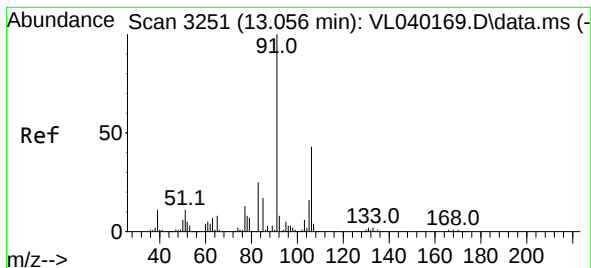
Tgt Ion: 91 Resp: 265706

Ion Ratio Lower Upper

91 100

106 47.4 34.6 51.8





#60

o-Xylene

Concen: 0.488 ppbv

RT: 13.069 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

Instrument :

MSVOA_L

ClientSampleId :

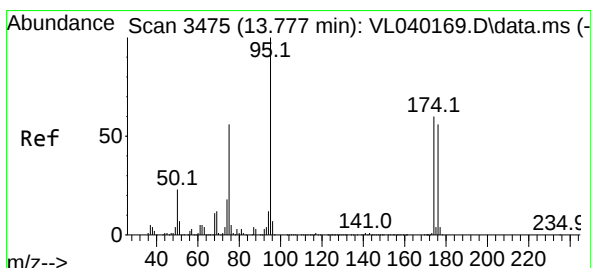
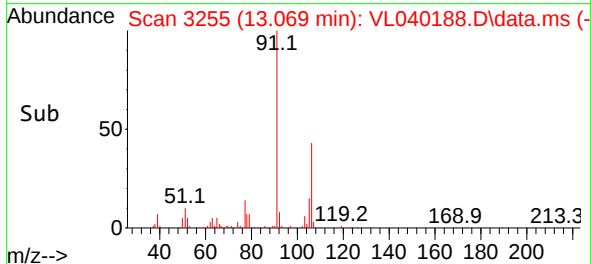
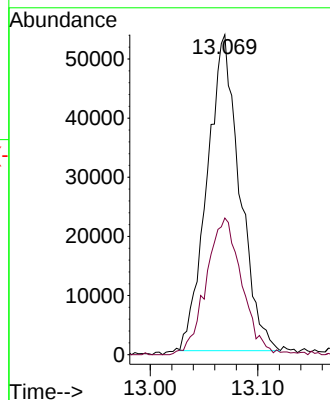
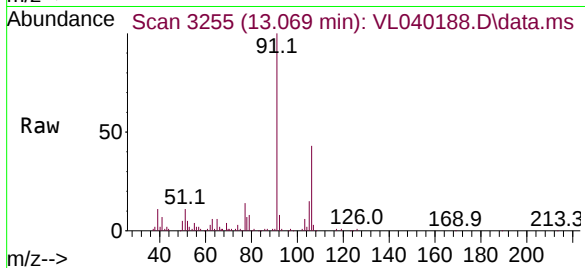
SVP-05DL

Tgt Ion: 91 Resp: 112788

Ion Ratio Lower Upper

91 100

106 47.3 21.6 65.0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.177 ppbv

RT: 13.786 min Scan# 3478

Delta R.T. 0.010 min

Lab File: VL040188.D

Acq: 16 Feb 2023 21:41

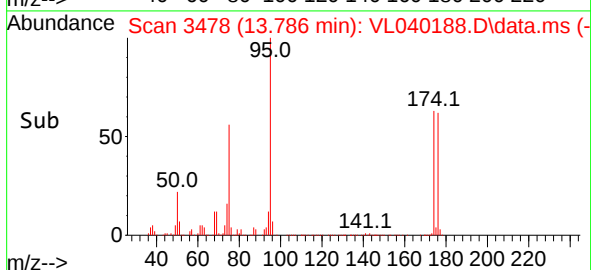
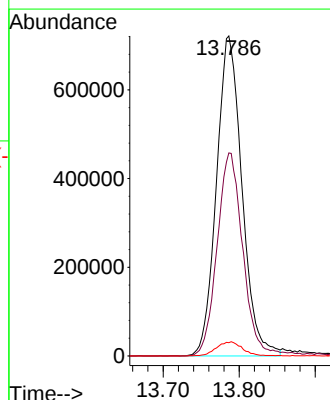
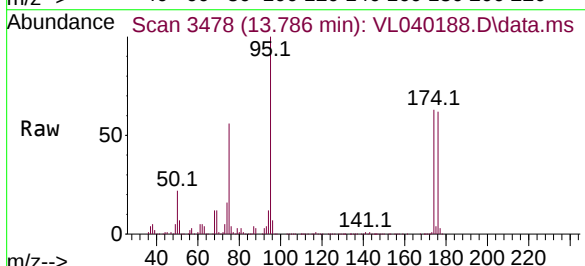
Tgt Ion: 95 Resp: 1682579

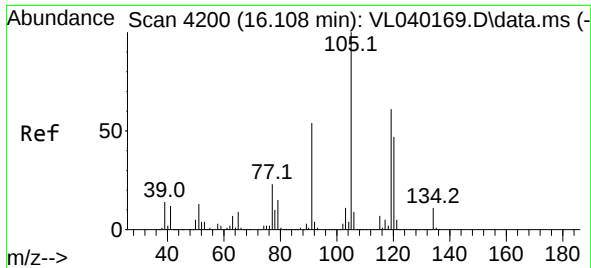
Ion Ratio Lower Upper

95 100

174 65.0 48.2 72.2

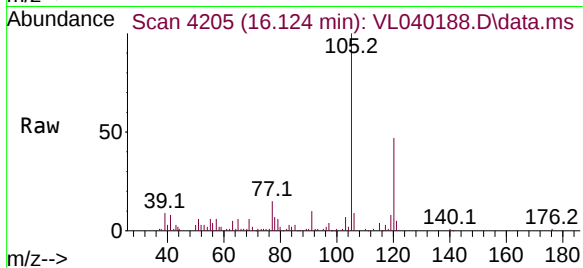
175 4.6 3.4 5.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.428 ppbv
 RT: 16.124 min Scan# 41
 Delta R.T. 0.016 min
 Lab File: VL040188.D
 Acq: 16 Feb 2023 21:41

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-05DL



Tgt Ion:	105	Resp:	111626
Ion	Ratio	Lower	Upper
105	100		
120	47.2	37.9	56.9
91	9.4	43.7	65.5#
77	14.3	18.3	27.5#

