

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040186.D
 Acq On : 16 Feb 2023 20:21
 Operator : SY/MD
 Sample : 01550-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

Quant Time: Feb 17 03:32:19 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 : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

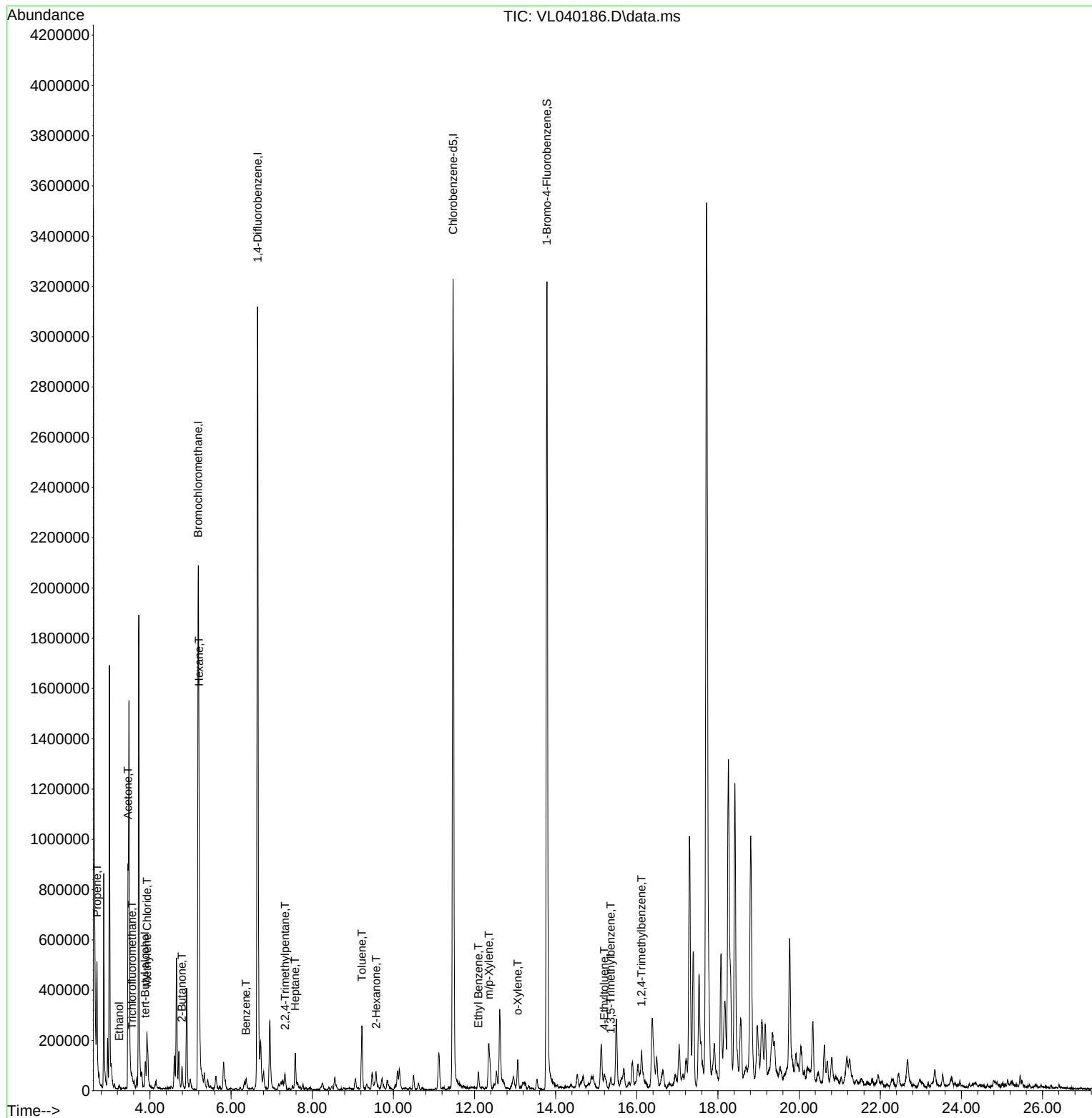
Internal Standards						
1) Bromochloromethane	5.188	49	948252	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	2492519	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2183379	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1646264	9.169	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.700%
Target Compounds						
					Qvalue	
9) Propene	2.693	41	115166m	2.494	ppbv	
10) Heptane	7.581	43	62938	0.573	ppbv	94
11) Trichlorofluoromethane	3.555	101	15662	0.099	ppbv #	81
13) Ethanol	3.240	45	10551	2.482	ppbv #	62
15) Acetone	3.462	43	776331	6.800	ppbv #	80
17) tert-Butyl alcohol	3.883	59	81113	0.779	ppbv	95
20) Methylene Chloride	3.928	84	69863	1.176	ppbv	96
26) Hexane	5.208	57	350671	3.849	ppbv #	37
34) 2-Butanone	4.790	43	94972	0.772	ppbv #	87
36) Benzene	6.368	78	28430	0.147	ppbv	96
44) 2,2,4-Trimethylpentane	7.333	57	52672	0.163	ppbv #	84
51) 2-Hexanone	9.574	43	80960m	0.551	ppbv	
53) Toluene	9.224	91	170549	0.821	ppbv	99
58) Ethyl Benzene	12.095	91	55313	0.209	ppbv	90
59) m/p-Xylene	12.355	91	195202m	0.831	ppbv	
60) o-Xylene	13.063	91	86060m	0.381	ppbv	
72) 4-Ethyltoluene	15.201	105	32685	0.131	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.358	105	28002m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.117	105	101126	0.396	ppbv #	64

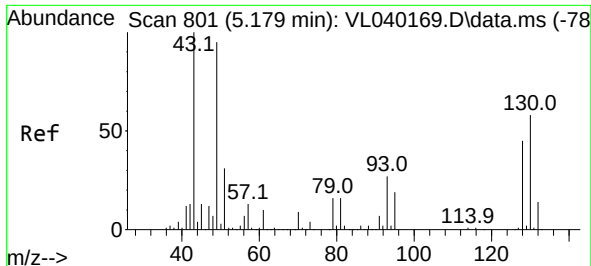
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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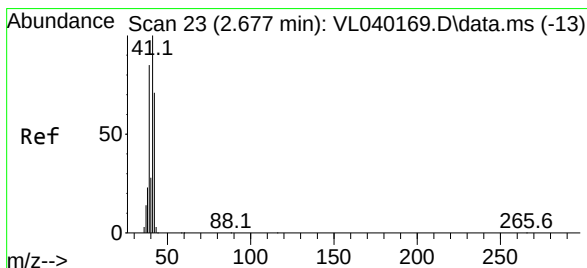
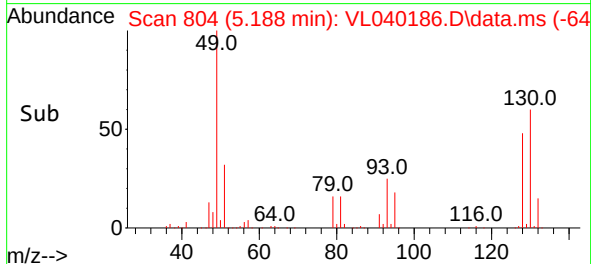
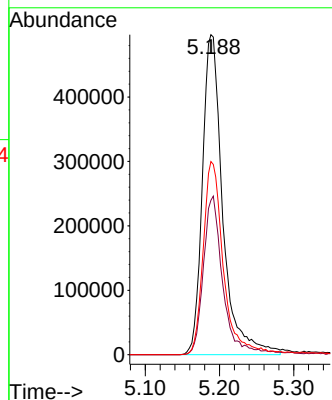
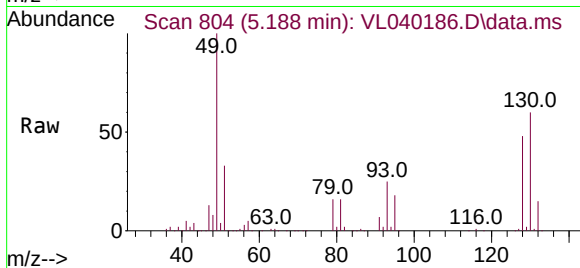




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

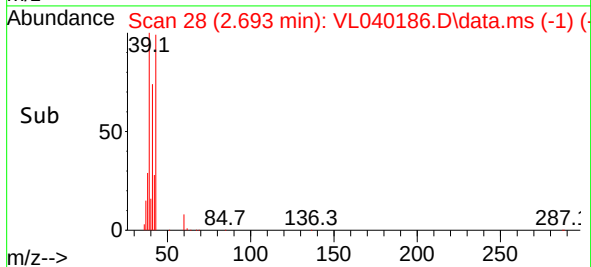
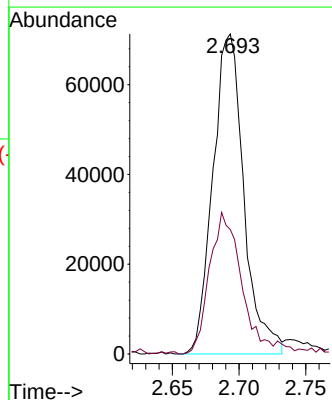
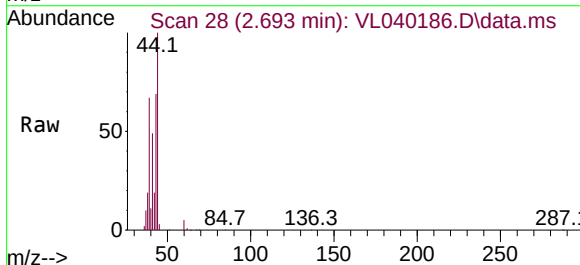
Instrument :
MSVOA_1
ClientSampleId :
SVP-03DL

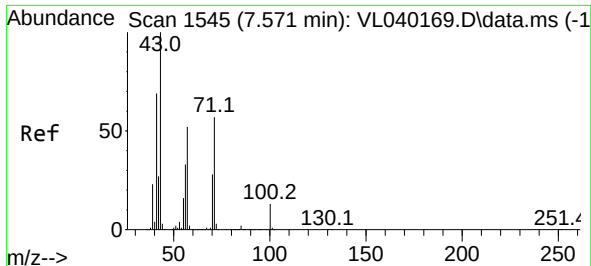
Tgt Ion: 49 Resp: 948252
Ion Ratio Lower Upper
49 100
128 48.1 24.1 72.3
130 60.7 30.9 92.8



#9
Propene
Concen: 2.494 ppbv m
RT: 2.693 min Scan# 28
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 41 Resp: 115166
Ion Ratio Lower Upper
41 100
42 132.1 56.9 85.3#





#10

Heptane

Concen: 0.573 ppbv

RT: 7.581 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_L

ClientSampleId :

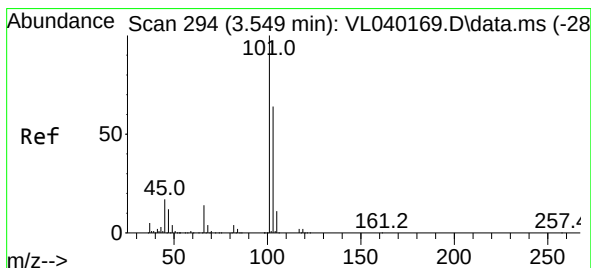
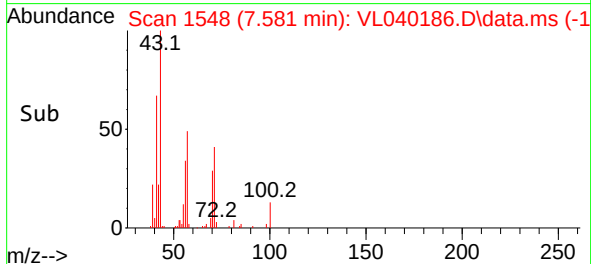
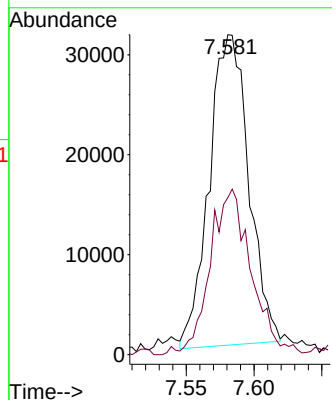
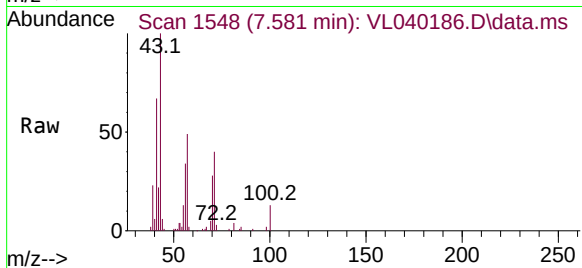
SVP-03DL

Tgt Ion: 43 Resp: 62938

Ion Ratio Lower Upper

43 100

57 56.2 41.4 62.2



#11

Trichlorofluoromethane

Concen: 0.099 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.006 min

Lab File: VL040186.D

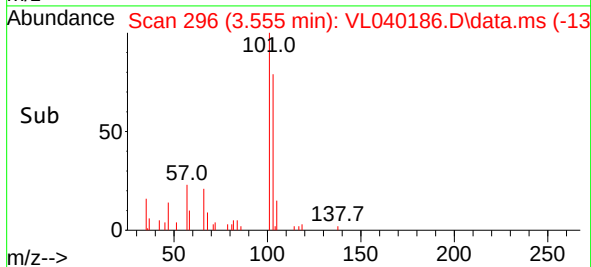
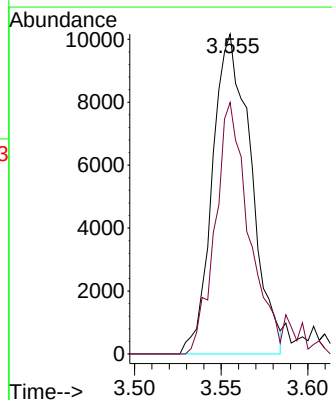
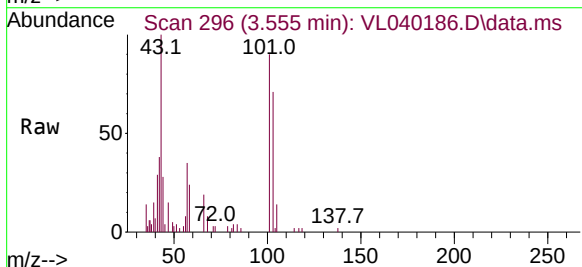
Acq: 16 Feb 2023 20:21

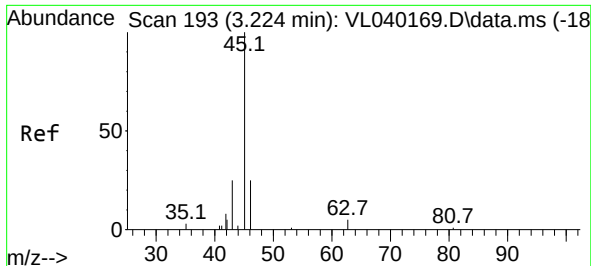
Tgt Ion: 101 Resp: 15662

Ion Ratio Lower Upper

101 100

103 78.6 51.0 76.6#

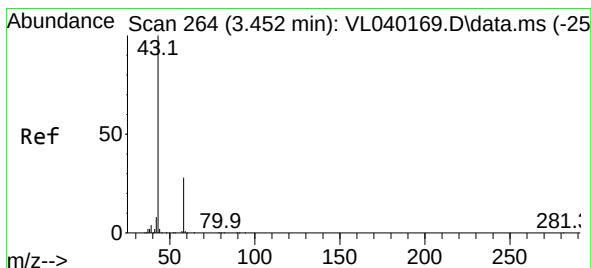
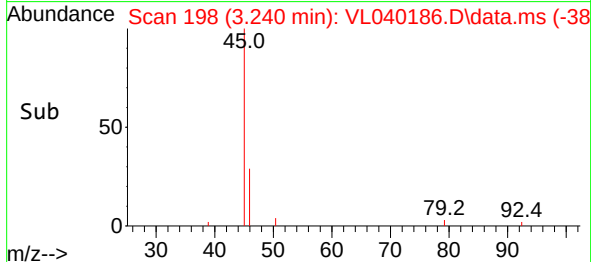
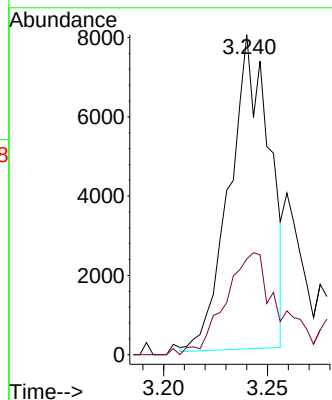
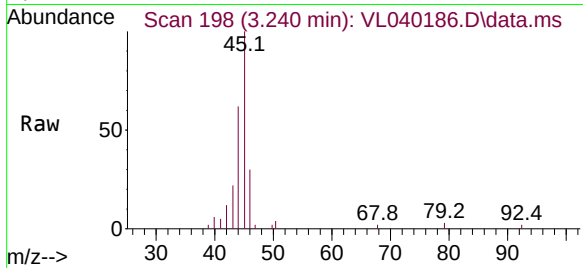




#13
 Ethanol
 Concen: 2.482 ppbv
 RT: 3.240 min Scan# 193
 Delta R.T. 0.016 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

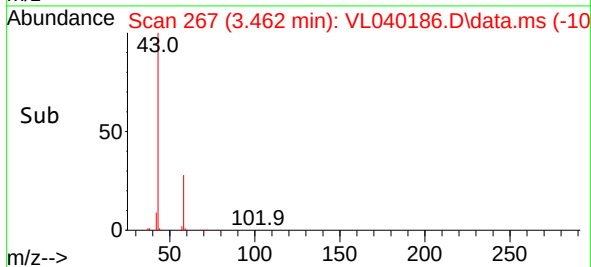
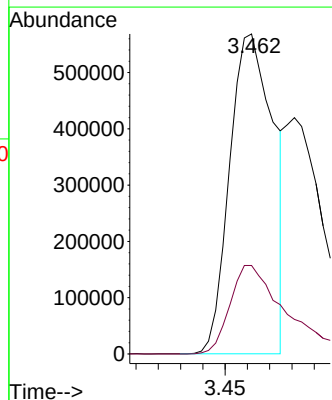
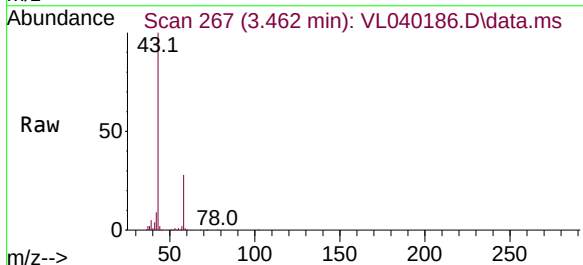
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

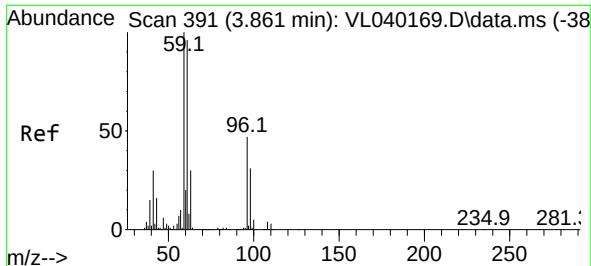
Tgt Ion: 45 Resp: 10551
 Ion Ratio Lower Upper
 45 100
 46 54.5 13.3 53.1#



#15
 Acetone
 Concen: 6.800 ppbv
 RT: 3.462 min Scan# 267
 Delta R.T. 0.010 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Tgt Ion: 43 Resp: 776331
 Ion Ratio Lower Upper
 43 100
 58 38.6 22.4 33.6#





#17

tert-Butyl alcohol

Concen: 0.779 ppbv

RT: 3.883 min Scan# 391

Delta R.T. 0.022 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_L

ClientSampleId :

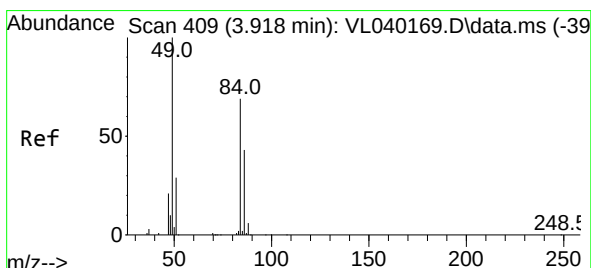
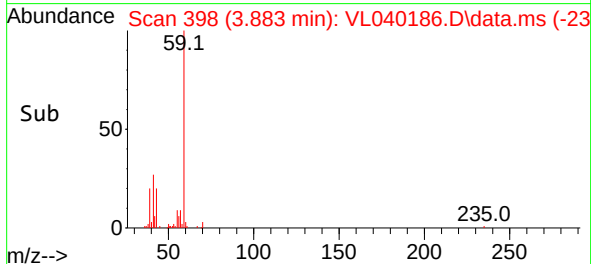
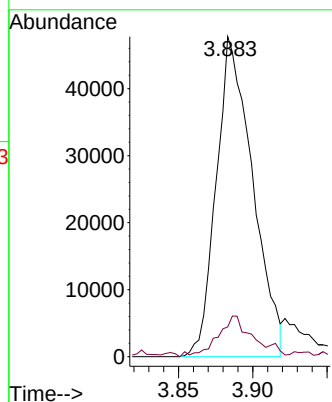
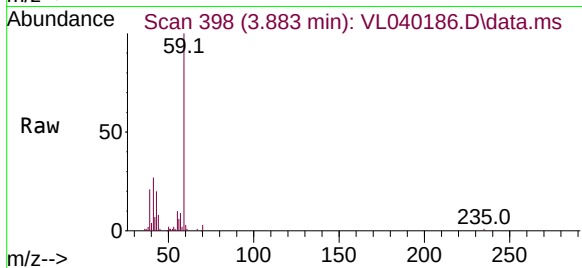
SVP-03DL

Tgt Ion: 59 Resp: 81113

Ion Ratio Lower Upper

59 100

57 12.3 8.5 12.7



#20

Methylene Chloride

Concen: 1.176 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.010 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Tgt Ion: 84 Resp: 69863

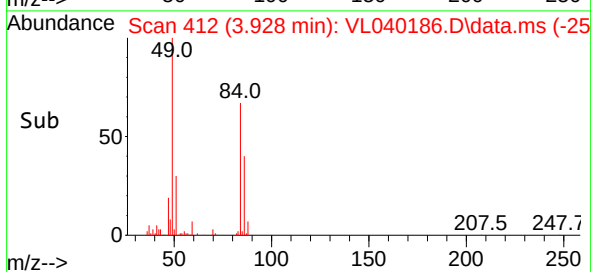
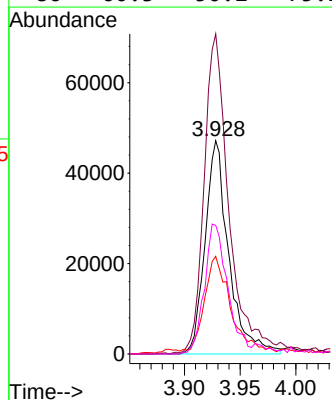
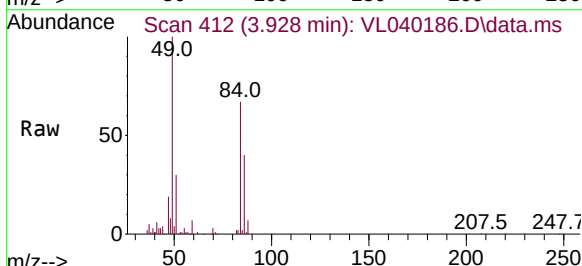
Ion Ratio Lower Upper

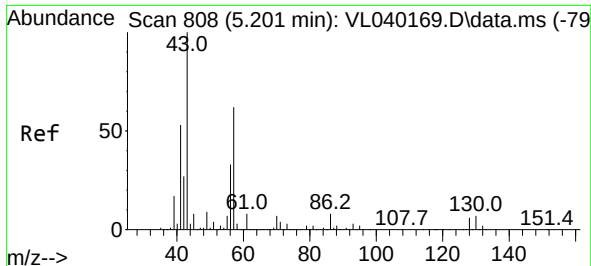
84 100

49 149.6 115.5 173.3

51 44.4 33.1 49.7

86 60.3 50.2 75.2

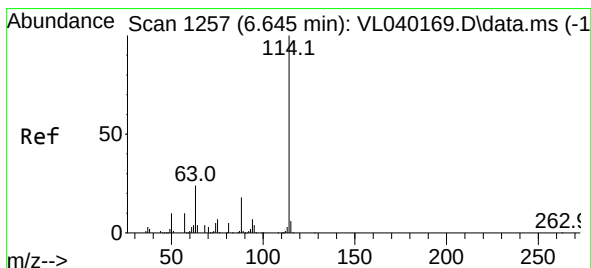
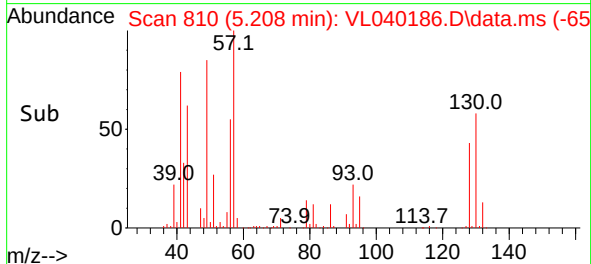
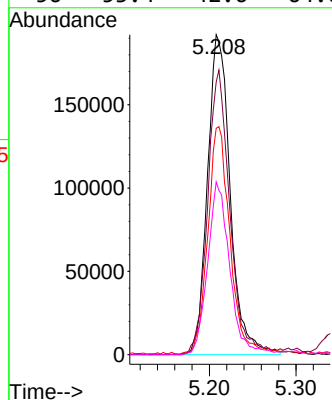
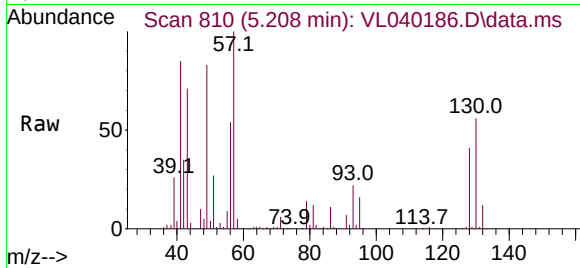




#26
Hexane
Concen: 3.849 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

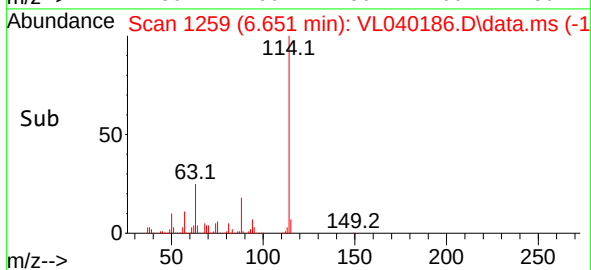
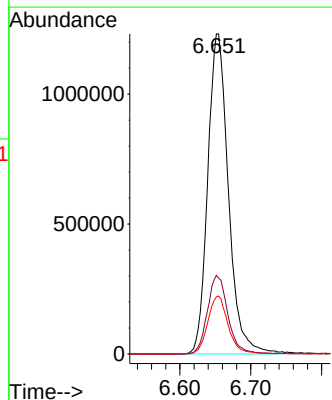
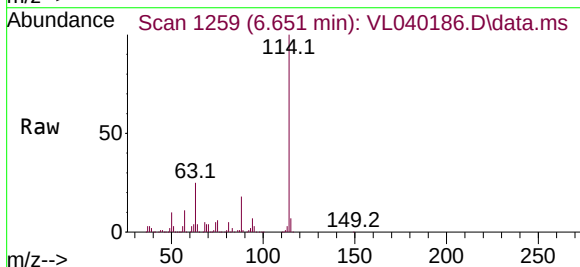
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

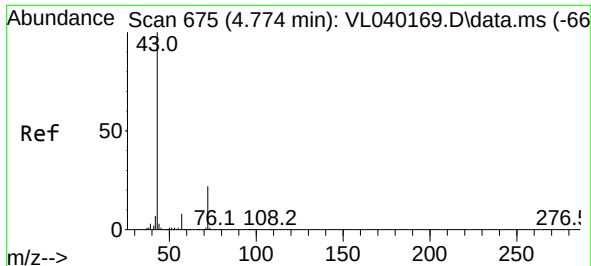
Tgt Ion: 57 Resp: 350671
Ion Ratio Lower Upper
57 100
41 89.1 74.3 111.5
43 70.2 193.0 289.4#
56 53.4 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 114 Resp: 2492519
Ion Ratio Lower Upper
114 100
63 24.5 20.4 30.6
88 17.9 14.3 21.5

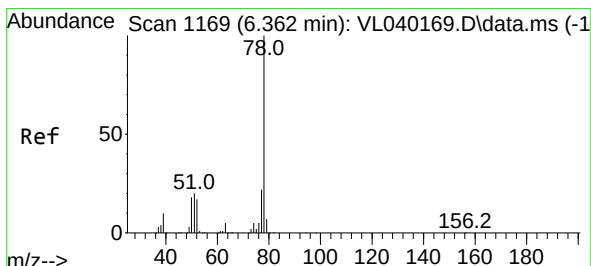
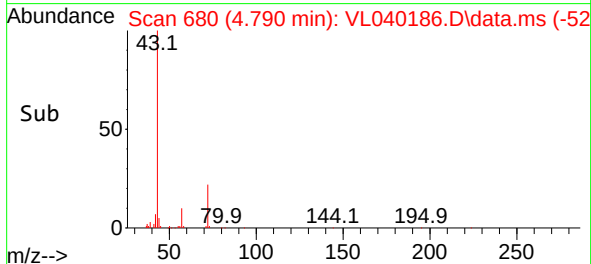
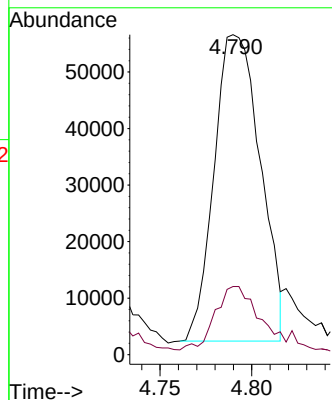
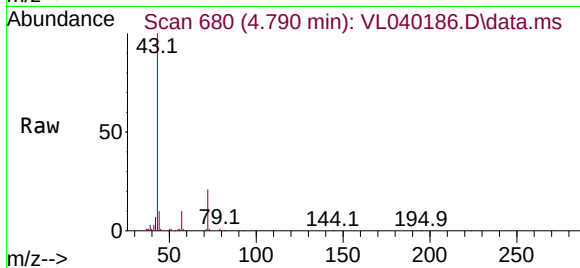




#34
2-Butanone
Concen: 0.772 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

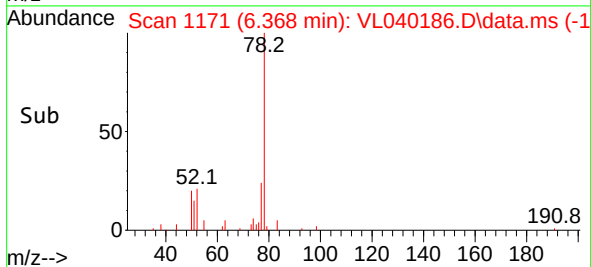
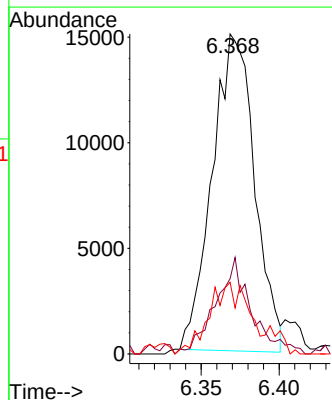
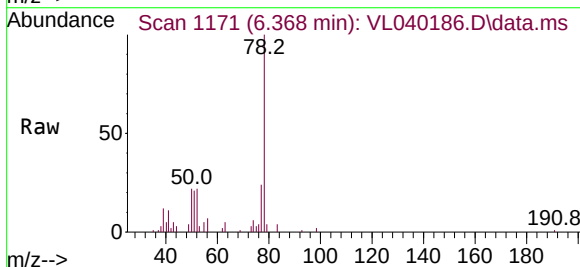
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ClientSampleId :
SVP-03DL

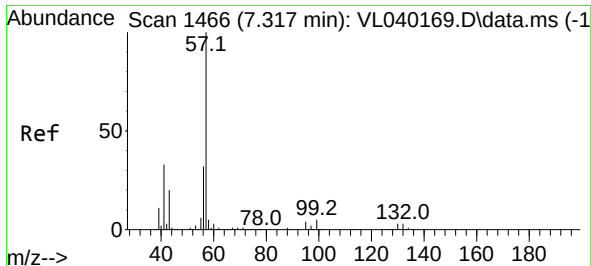
Tgt Ion: 43 Resp: 94972
Ion Ratio Lower Upper
43 100
72 28.5 17.8 26.8#



#36
Benzene
Concen: 0.147 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 78 Resp: 28430
Ion Ratio Lower Upper
78 100
77 22.4 17.5 26.3
50 21.4 14.6 22.0





#44

2,2,4-Trimethylpentane

Concen: 0.163 ppbv

RT: 7.333 min Scan# 1466

Delta R.T. 0.016 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_1

ClientSampleId :

SVP-03DL

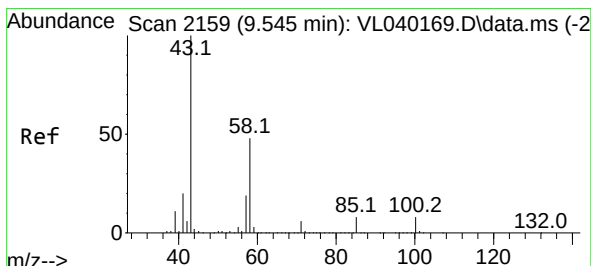
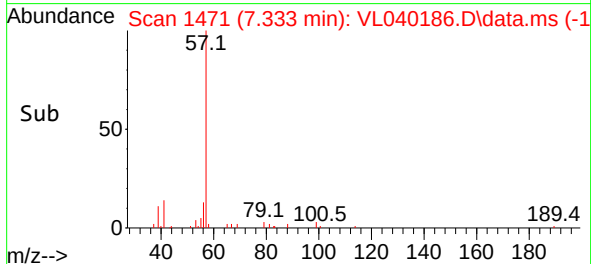
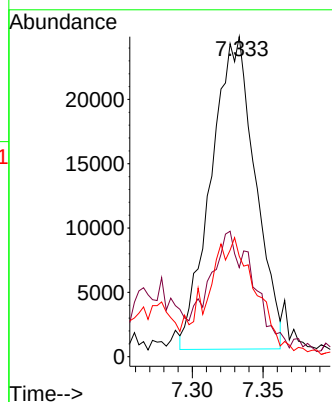
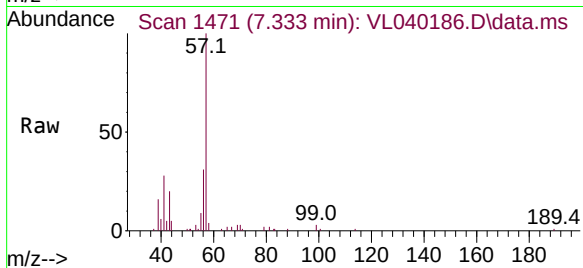
Tgt Ion: 57 Resp: 52672

Ion Ratio Lower Upper

57 100

41 41.5 26.2 39.4#

56 39.9 24.9 37.3#



#51

2-Hexanone

Concen: 0.551 ppbv m

RT: 9.574 min Scan# 2168

Delta R.T. 0.029 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

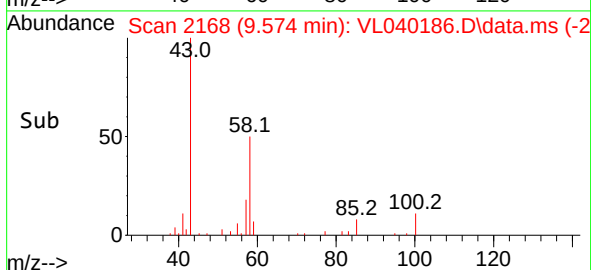
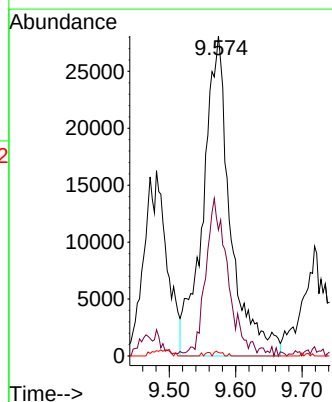
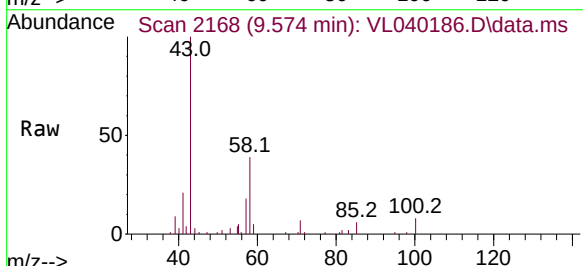
Tgt Ion: 43 Resp: 80960

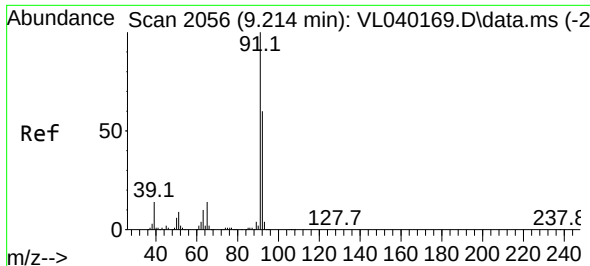
Ion Ratio Lower Upper

43 100

58 0.0 39.1 58.7#

98 0.3 0.2 0.4

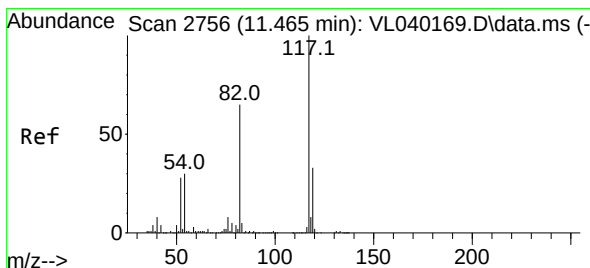
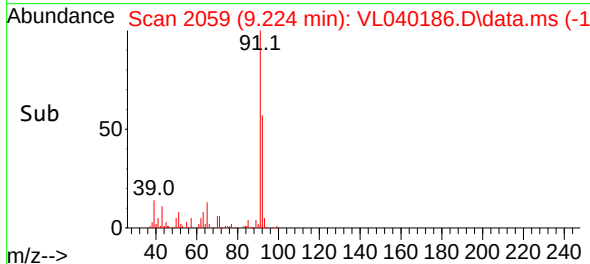
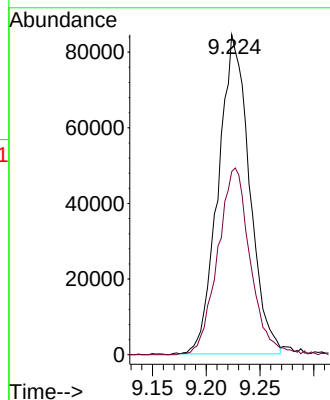
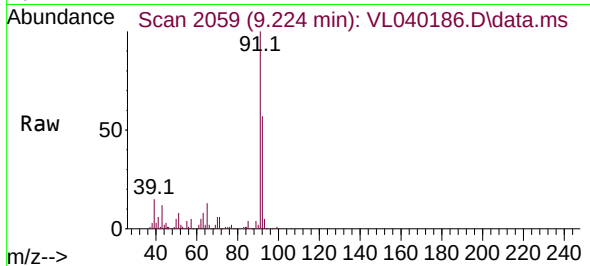




#53
Toluene
Concen: 0.821 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

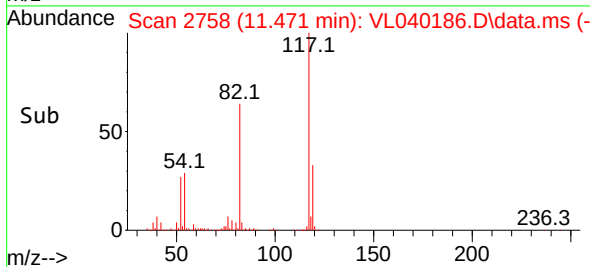
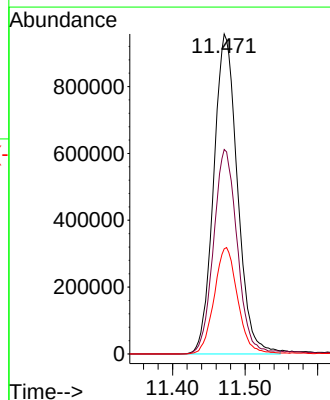
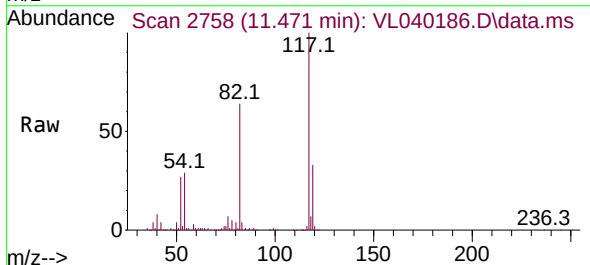
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

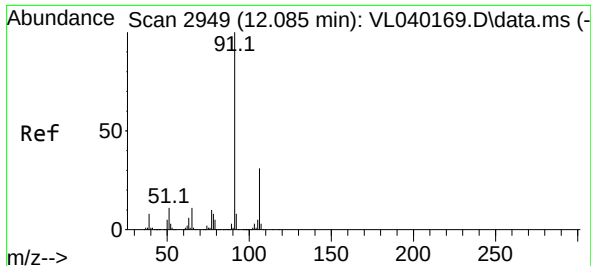
Tgt Ion: 91 Resp: 170549
Ion Ratio Lower Upper
91 100
92 61.6 48.9 73.3



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 117 Resp: 2183379
Ion Ratio Lower Upper
117 100
82 65.1 53.3 79.9
119 33.2 24.6 37.0

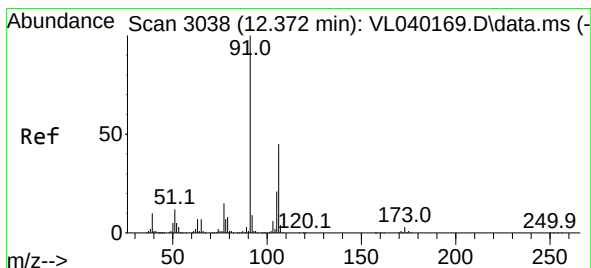
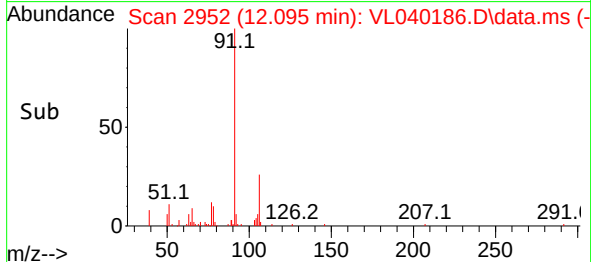
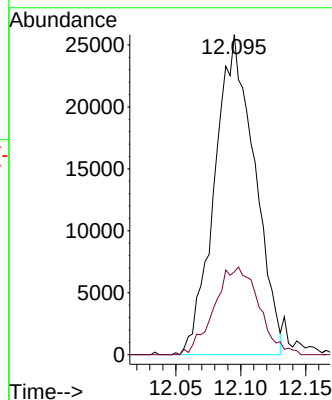
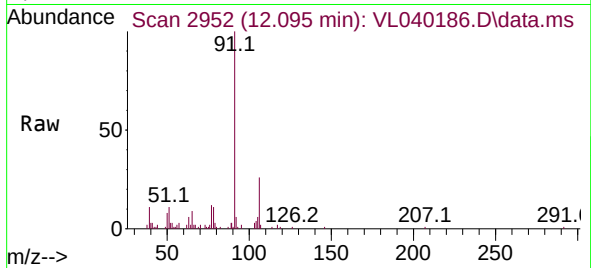




#58
Ethyl Benzene
Concen: 0.209 ppbv
RT: 12.095 min Scan# 2949
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

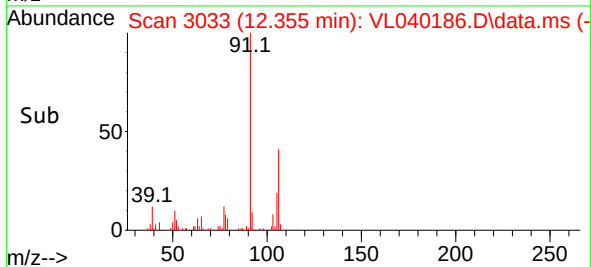
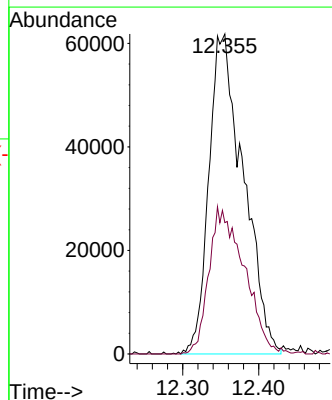
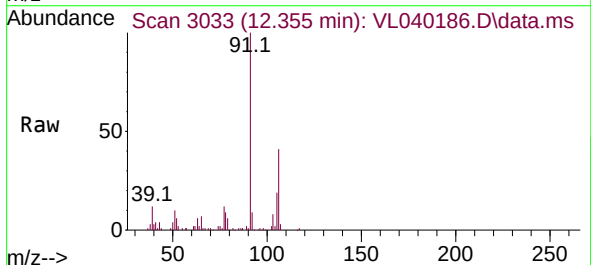
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

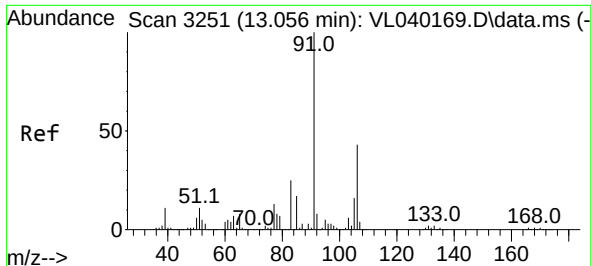
Tgt Ion: 91 Resp: 55313
Ion Ratio Lower Upper
91 100
106 25.8 24.9 37.3



#59
m/p-Xylene
Concen: 0.831 ppbv m
RT: 12.355 min Scan# 3033
Delta R.T. -0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 91 Resp: 195202
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

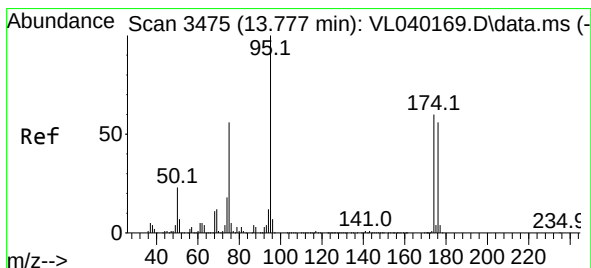
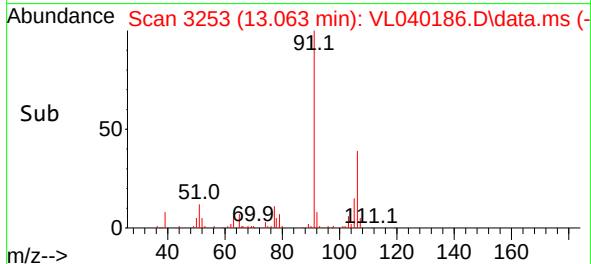
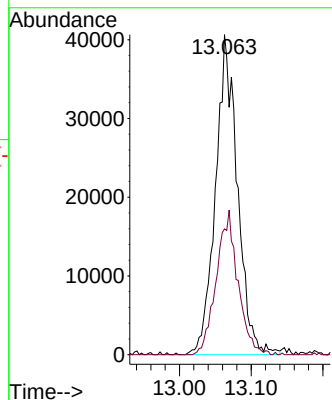
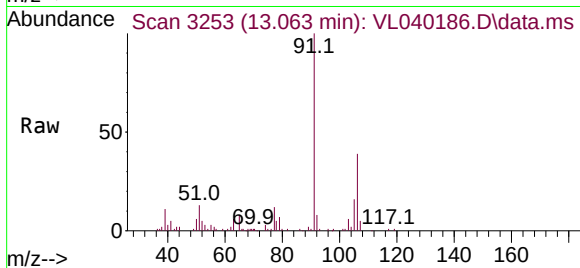




#60
o-Xylene
Concen: 0.381 ppbv m
RT: 13.063 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

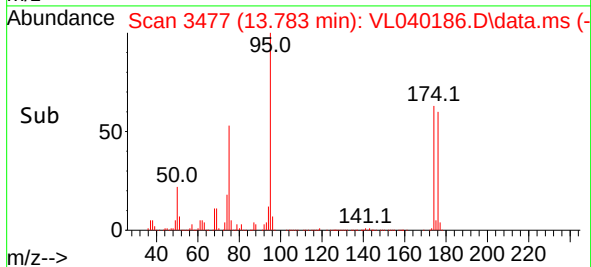
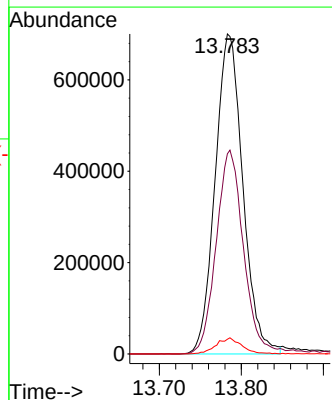
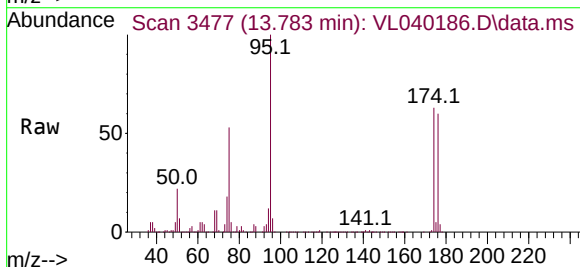
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

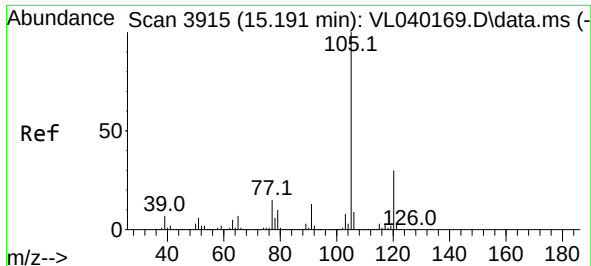
Tgt Ion: 91 Resp: 86060
Ion Ratio Lower Upper
91 100
106 0.0 21.6 65.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.169 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 95 Resp: 1646264
Ion Ratio Lower Upper
95 100
174 64.6 48.2 72.2
175 4.7 3.4 5.2

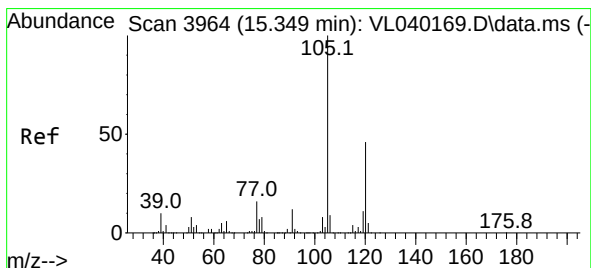
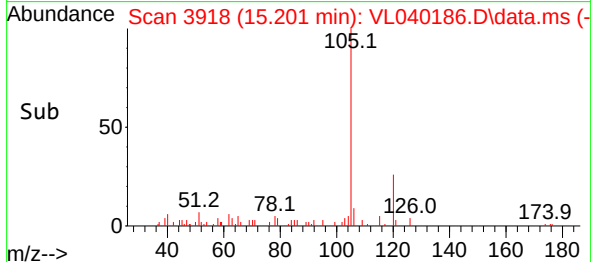
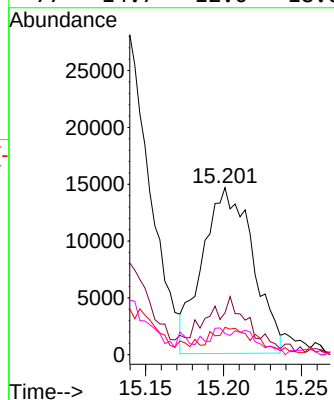
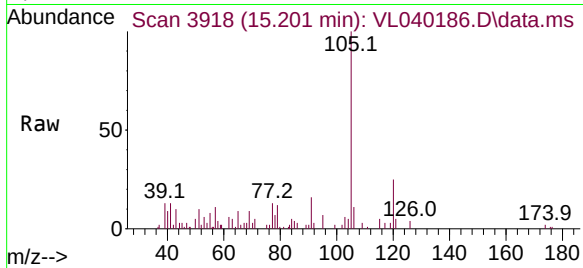




#72
4-Ethyltoluene
Concen: 0.131 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

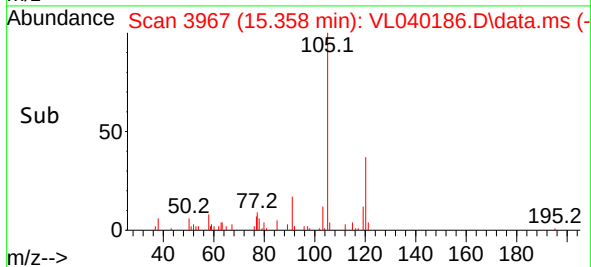
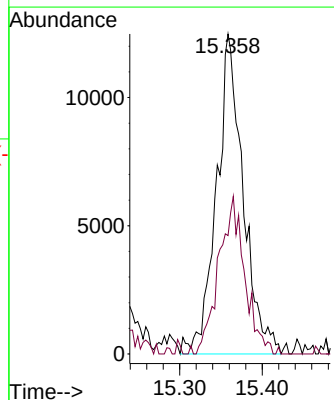
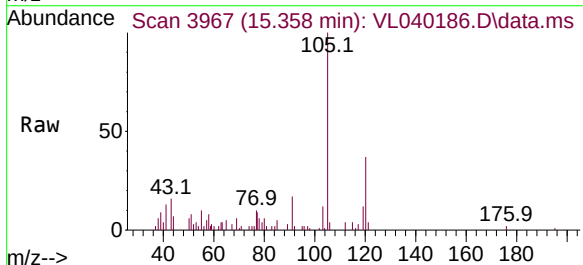
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

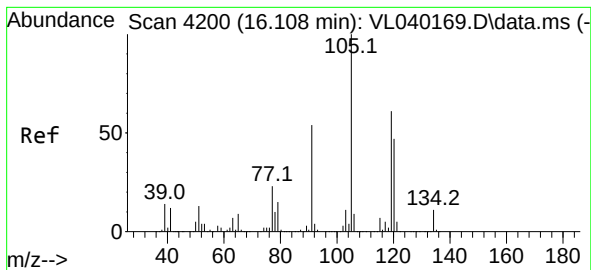
Tgt Ion:105 Resp: 32685
Ion Ratio Lower Upper
105 100
120 33.7 23.2 34.8
91 18.4 11.3 16.9#
77 14.7 12.0 18.0



#73
1,3,5-Trimethylbenzene
Concen: 0.120 ppbv m
RT: 15.358 min Scan# 3967
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

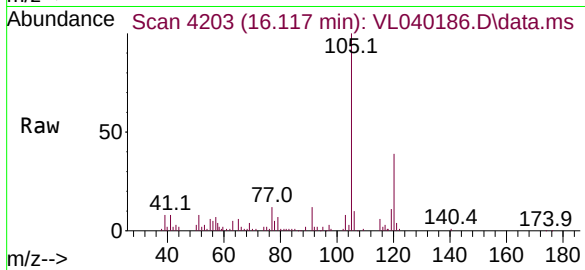
Tgt Ion:105 Resp: 28002
Ion Ratio Lower Upper
105 100
120 37.0 36.8 55.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.396 ppbv
 RT: 16.117 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL



Tgt Ion:	105	Resp:	101126
Ion	Ratio	Lower	Upper
105	100		
120	38.2	37.9	56.9
91	11.1	43.7	65.5#
77	11.7	18.3	27.5#

