

Data File : VL036003.D
Acq On : 24 Nov 2020 21:06
Operator : SY/AP
Sample : L4843-01DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SVP-01DL

Quant Time: Nov 25 00:37:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1398338	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.14	114	4983608	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.06	117	4837018	10.00	ppbv	-0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.39 95 3678877 10.71 ppbv -0.04
Spiked Amount 10.000 Range 65 - 135 Recovery = 107.10%

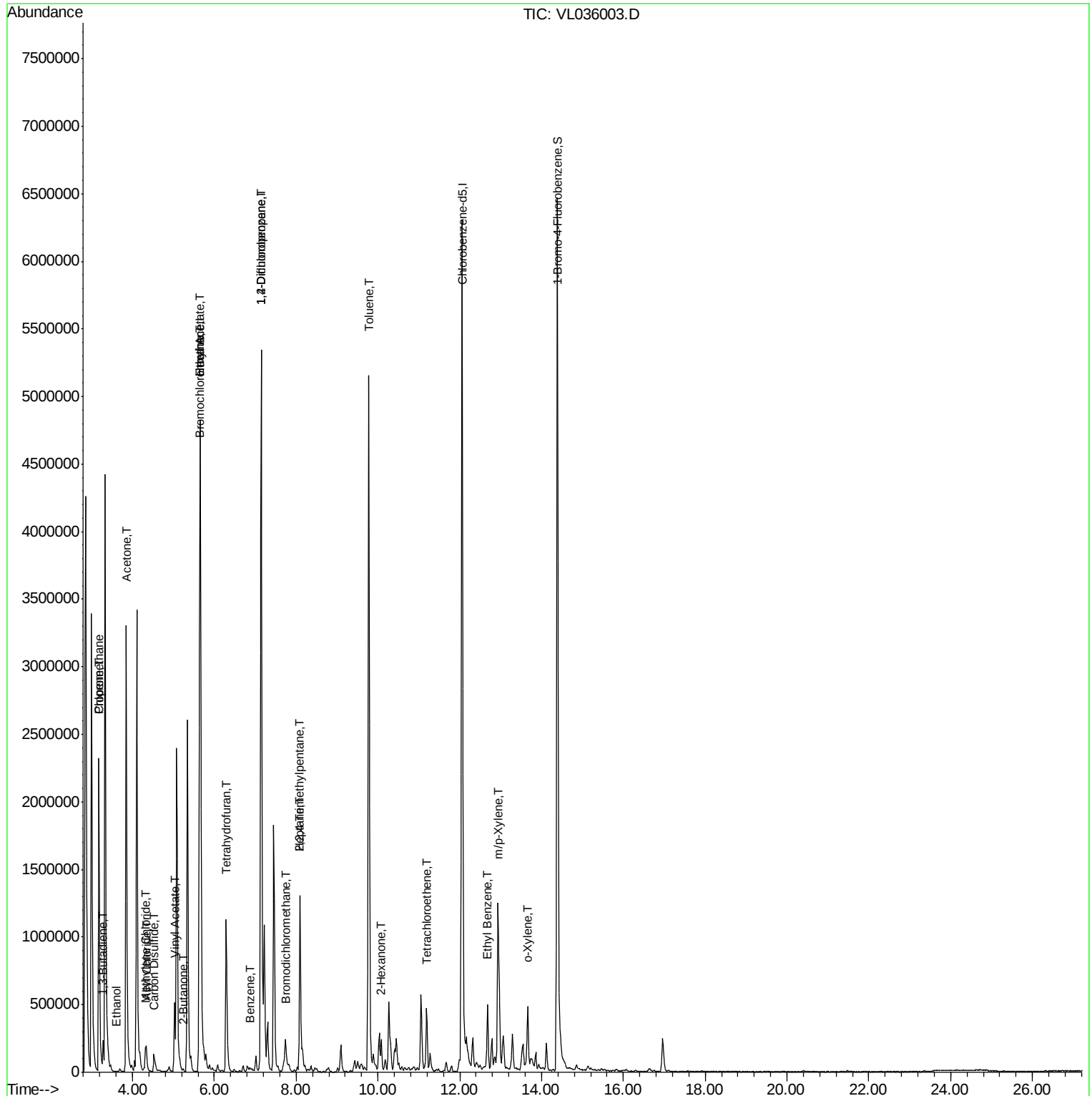
Target Compounds					Qvalue
4) Chloromethane	3.18	50	25196	0.310 ppbv #	69
9) Propene	3.18	41	870749	14.207 ppbv	92
10) Heptane	8.09	43	527543	3.116 ppbv	98
13) Ethanol	3.60	45	2012	0.151 ppbv #	1
15) Acetone	3.84	43	1338267	8.952 ppbv #	54
16) 1,3-Butadiene	3.28	39	52407	0.814 ppbv #	1
20) Methylene Chloride	4.32	84	90755	0.862 ppbv	92
21) Allyl Chloride	4.34	41	14362	0.178 ppbv #	1
23) Vinyl Acetate	5.03	43	160279	0.765 ppbv #	1
25) Ethyl Acetate	5.66	43	1045662	3.551 ppbv #	72
26) Hexane	5.66	57	1866244	11.490 ppbv #	46
27) Carbon Disulfide	4.52	76	195277	0.802 ppbv	98
34) 2-Butanone	5.23	43	14674	0.091 ppbv #	65
36) Benzene	6.86	78	12448	0.034 ppbv #	88
39) 1,2-Dichloropropane	7.14	63	1054900	8.457 ppbv #	30
41) Tetrahydrofuran	6.29	42	132982	1.447 ppbv #	24
42) Bromodichloromethane	7.76	83	17474	0.062 ppbv #	25
44) 2,2,4-Trimethylpentane	8.09	57	312384	0.637 ppbv #	1
51) 2-Hexanone	10.08	43	101069	0.509 ppbv #	23
52) Tetrachloroethene	11.20	164	122898	0.700 ppbv	98
53) Toluene	9.78	91	4849119	10.847 ppbv	99
58) Ethyl Benzene	12.68	91	414630	0.704 ppbv	92
59) m/p-Xylene	12.94	91	1273038	2.554 ppbv	99
60) o-Xylene	13.66	91	377830	0.779 ppbv	97

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

ALS Vial : 1 Sample Multiplier: 1

SVP-01DL

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 886

Delta R.T. -0.03 min

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ClientSampleID :

SVP-01DL

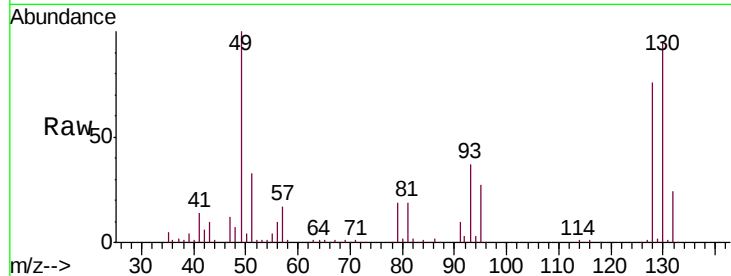
Tgt Ion: 49 Resp: 1398338

Ion Ratio Lower Upper

49 100

128 76.7 41.5 124.6

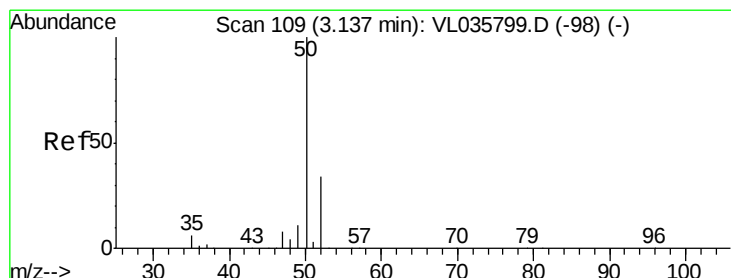
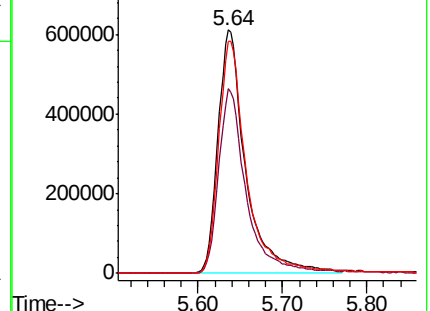
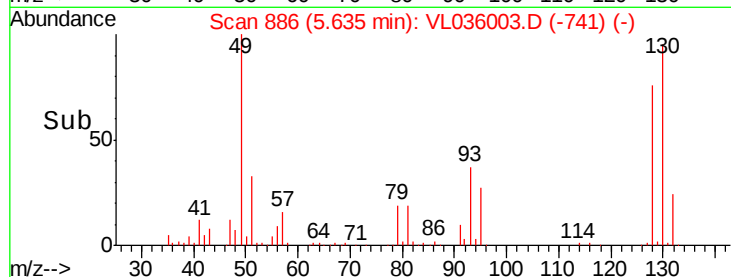
130 98.0 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.310 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.04 min

Lab File: VL036003.D

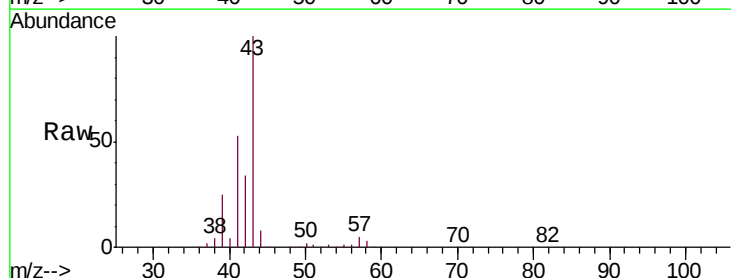
Acq: 24 Nov 2020 21:06

Tgt Ion: 50 Resp: 25196

Ion Ratio Lower Upper

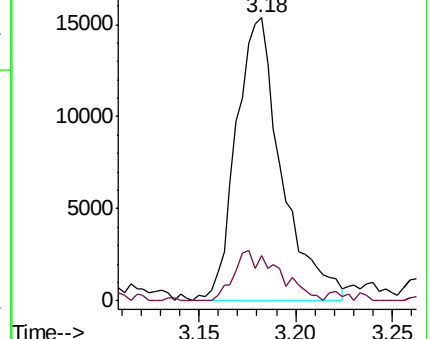
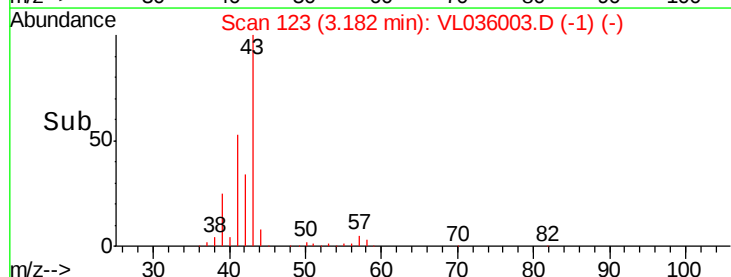
50 100

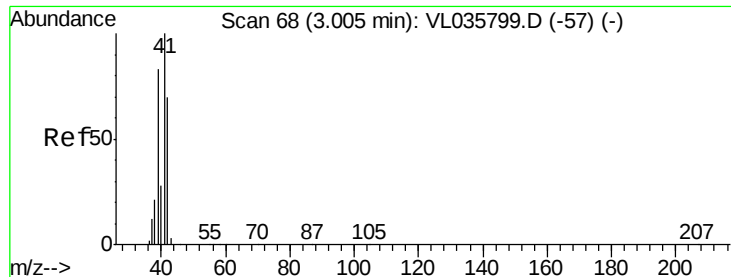
52 16.0 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 14.207 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.17 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

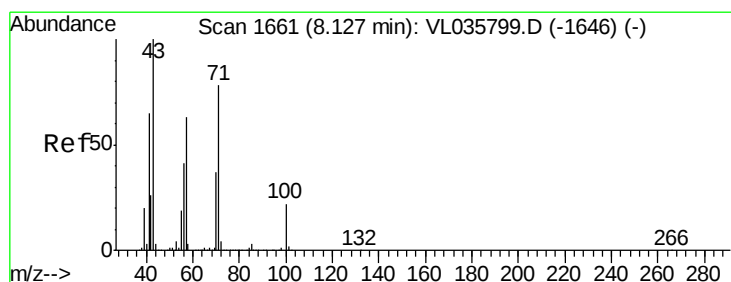
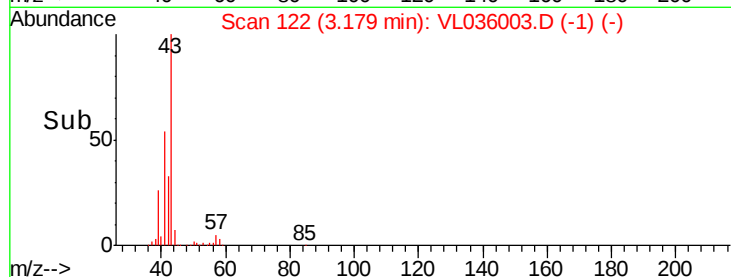
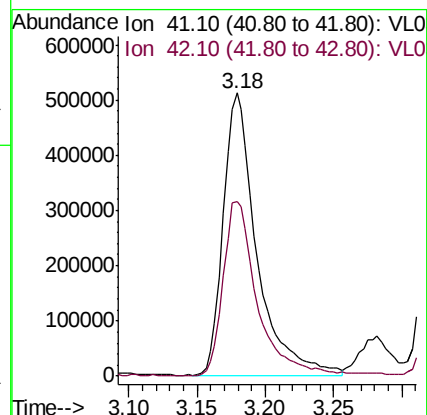
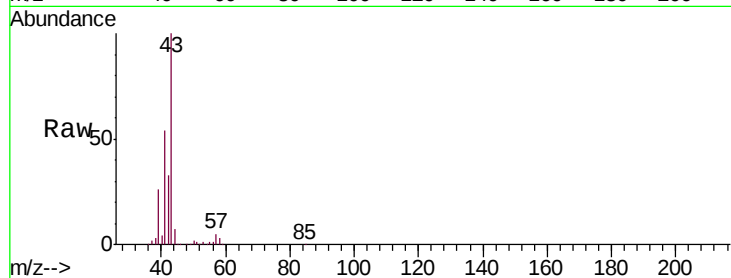
SVP-01DL

Tgt Ion: 41 Resp: 870749

Ion Ratio Lower Upper

41 100

42 63.9 56.2 84.4



#10

Heptane

Concen: 3.116 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.04 min

Lab File: VL036003.D

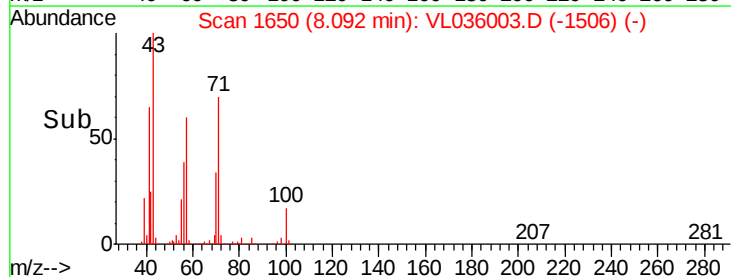
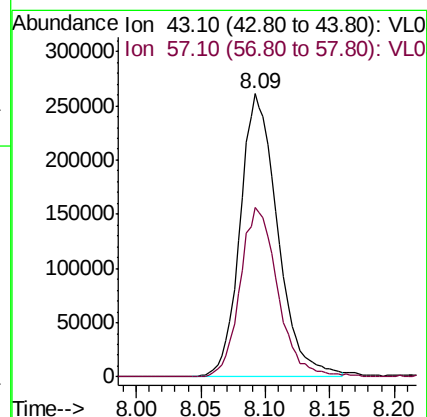
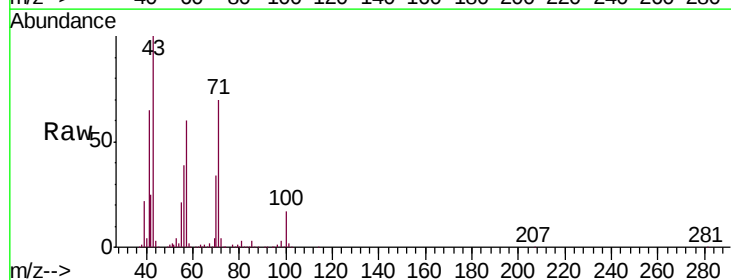
Acq: 24 Nov 2020 21:06

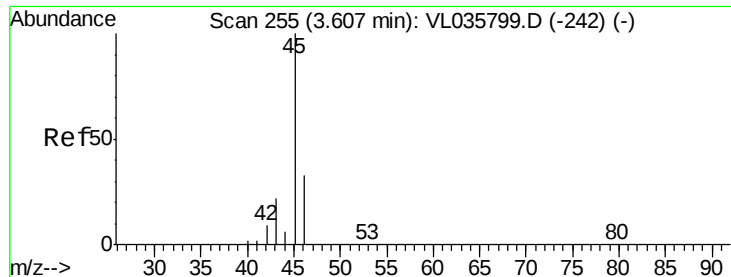
Tgt Ion: 43 Resp: 527543

Ion Ratio Lower Upper

43 100

57 60.8 50.0 75.0

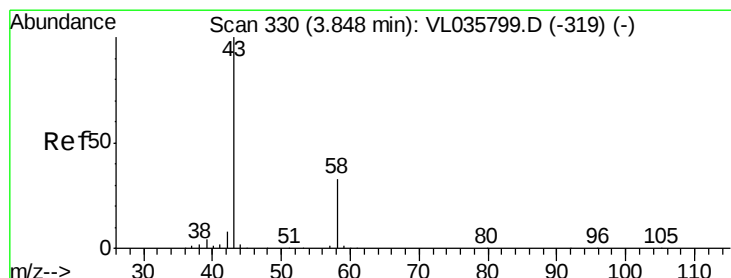
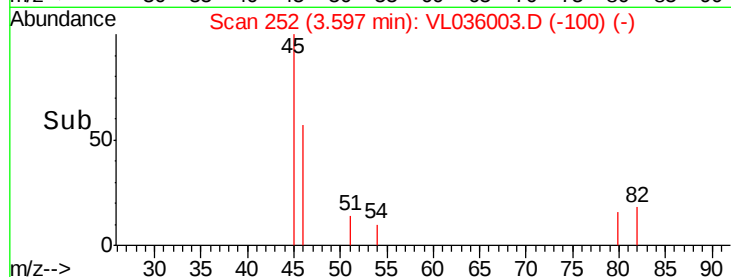
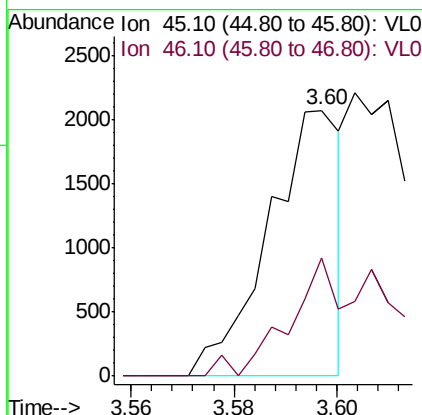
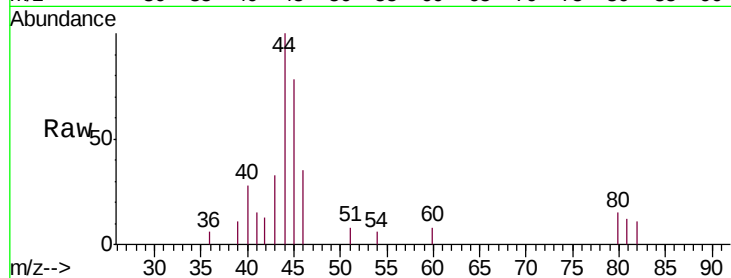




#13
Ethanol
Concen: 0.151 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

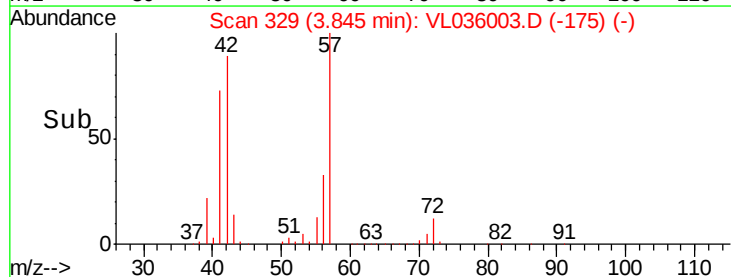
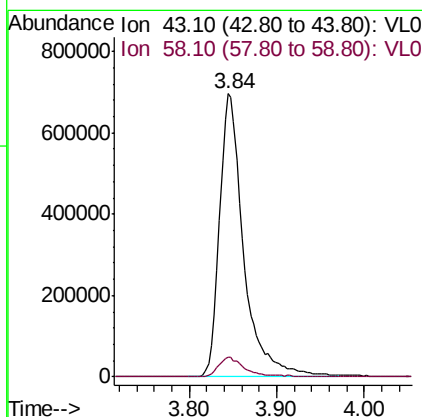
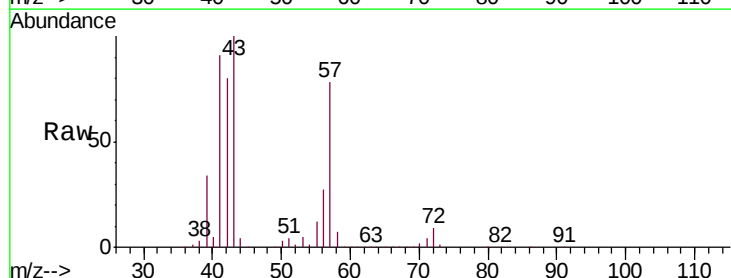
Instrument :
MSVOA_L
ClientSampleId :
SVP-01DL

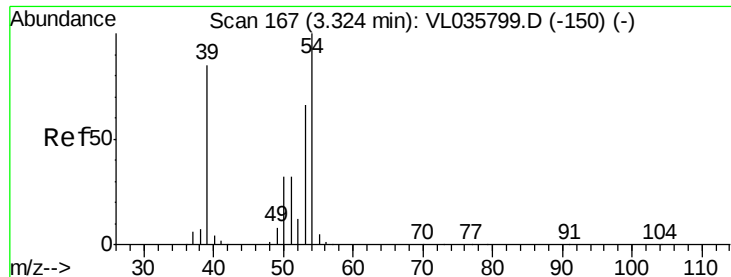
Tgt Ion: 45 Resp: 2012
Ion Ratio Lower Upper
45 100
46 112.9 16.1 64.5#



#15
Acetone
Concen: 8.952 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

Tgt Ion: 43 Resp: 1338267
Ion Ratio Lower Upper
43 100
58 8.0 27.5 41.3#

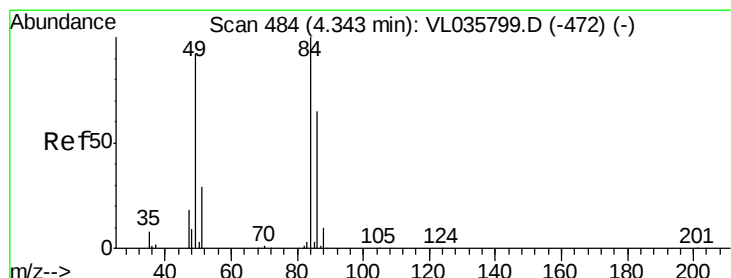
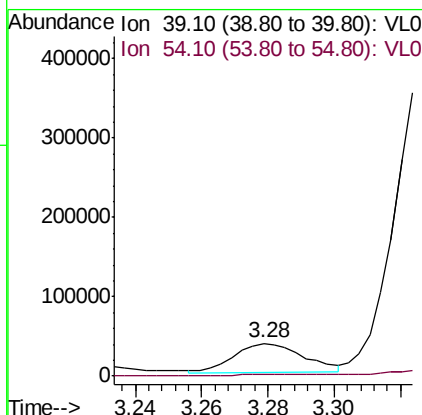
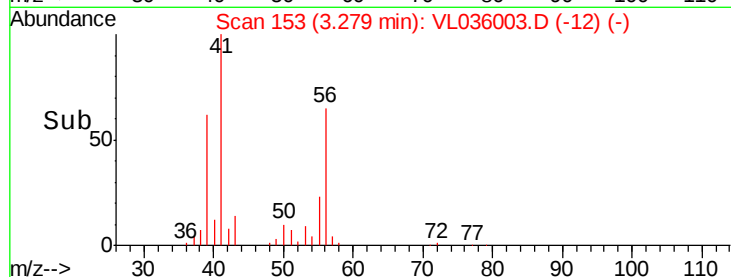
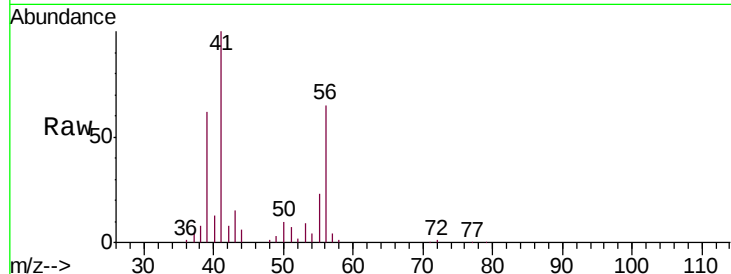




#16
 1,3-Butadiene
 Concen: 0.814 ppbv
 RT: 3.28 min Scan# 153
 Delta R.T. -0.05 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

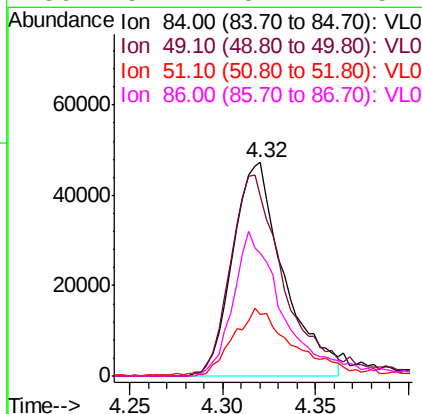
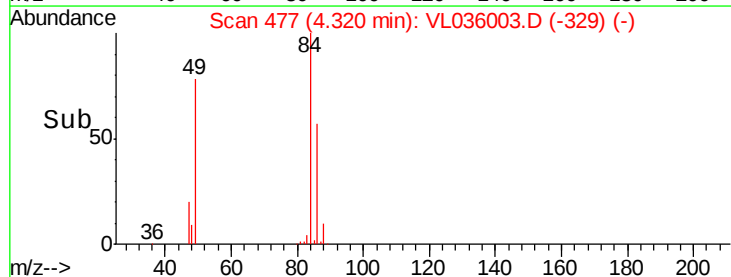
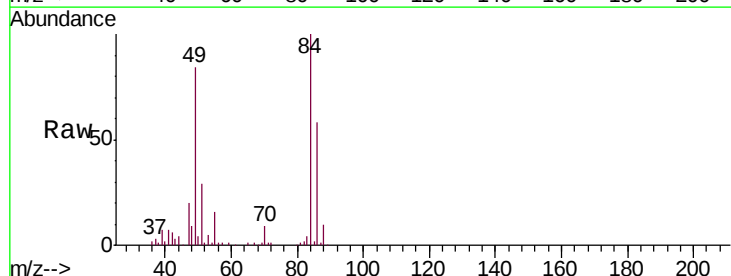
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01DL

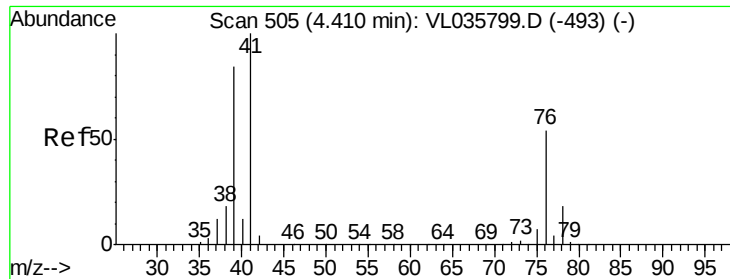
Tgt Ion: 39 Resp: 52407
 Ion Ratio Lower Upper
 39 100
 54 0.0 87.1 130.7#



#20
 Methylene Chloride
 Concen: 0.862 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

Tgt Ion: 84 Resp: 90755
 Ion Ratio Lower Upper
 84 100
 49 84.3 73.8 110.8
 51 27.6 23.0 34.4
 86 57.7 52.1 78.1

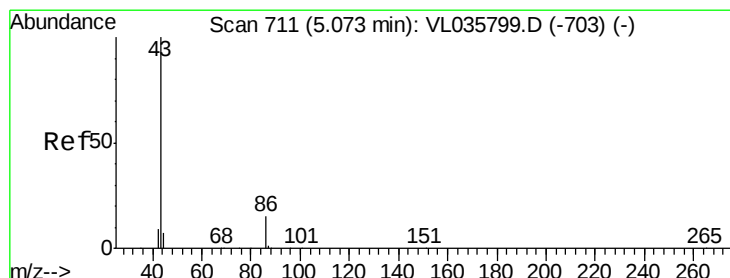
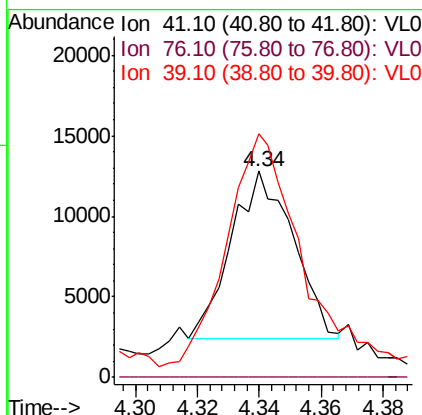
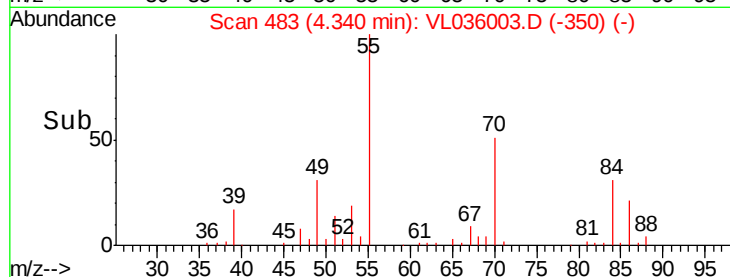
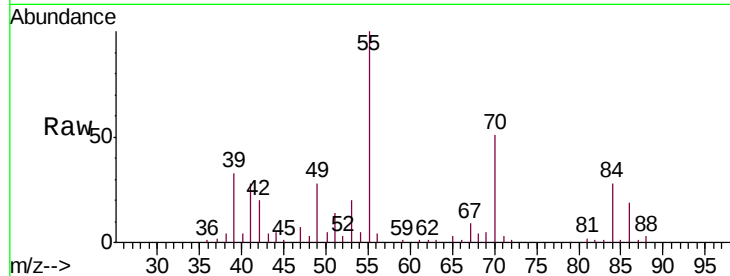




#21
 Allyl Chloride
 Concen: 0.178 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.07 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

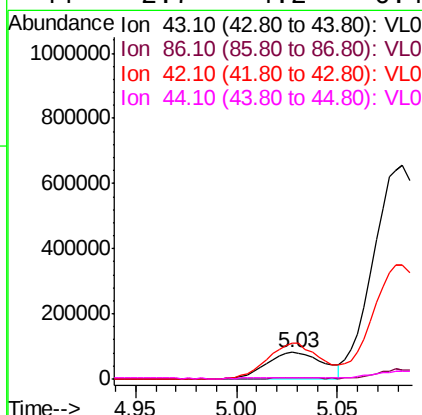
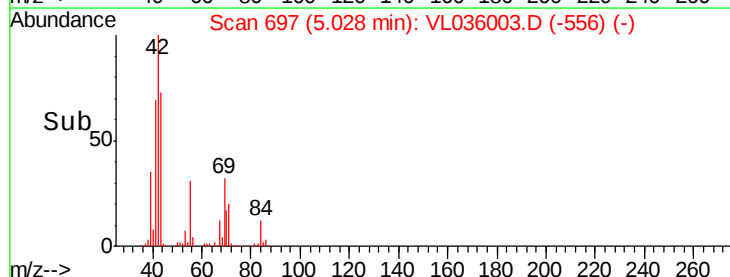
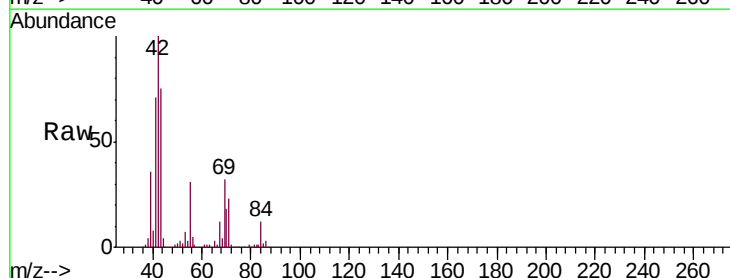
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01DL

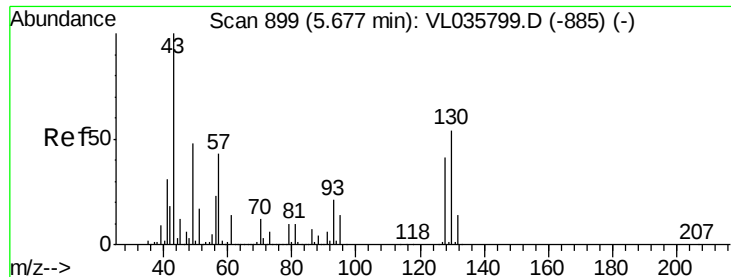
Tgt Ion: 41 Resp: 14362
 Ion Ratio Lower Upper
 41 100
 76 1419.4 42.6 63.8#
 39 187.7 67.0 100.4#



#23
 Vinyl Acetate
 Concen: 0.765 ppbv
 RT: 5.03 min Scan# 697
 Delta R.T. -0.05 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

Tgt Ion: 43 Resp: 160279
 Ion Ratio Lower Upper
 43 100
 86 4.2 9.8 14.6#
 42 132.8 8.1 12.1#
 44 2.7 4.2 6.4#





#25

Ethyl Acetate

Concen: 3.551 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-01DL

Tgt Ion: 43 Resp: 1045662

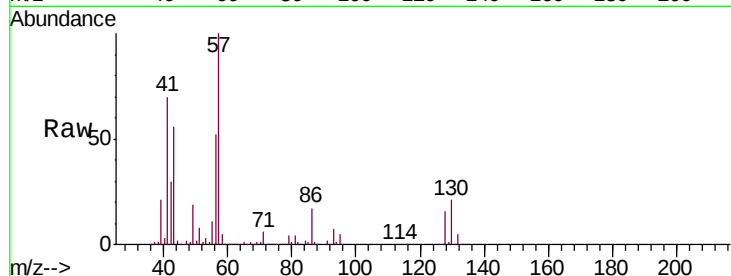
Ion Ratio Lower Upper

43 100

45 0.1 8.5 12.7#

61 0.2 10.7 16.1#

70 2.1 8.6 12.8#

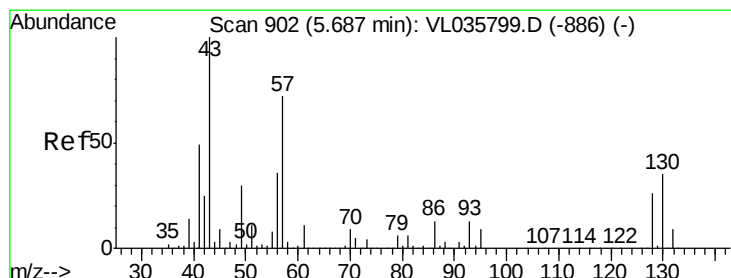
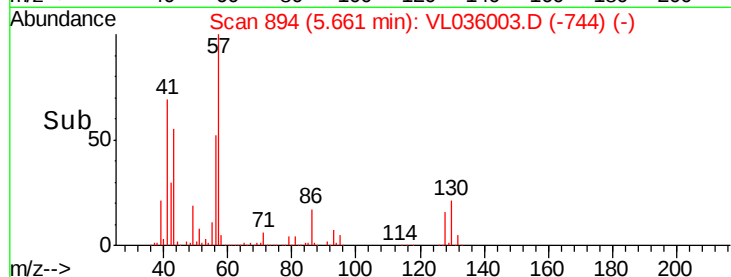
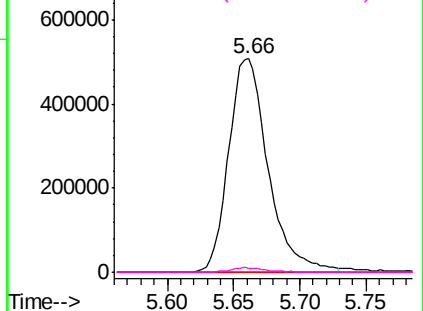


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 11.490 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.03 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Tgt Ion: 57 Resp: 1866244

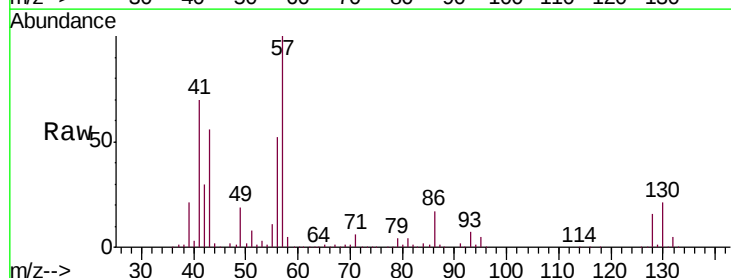
Ion Ratio Lower Upper

57 100

41 73.3 58.9 88.3

43 57.3 150.2 225.2#

56 54.6 42.4 63.6

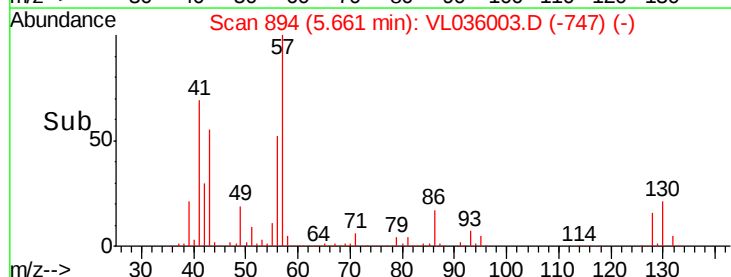
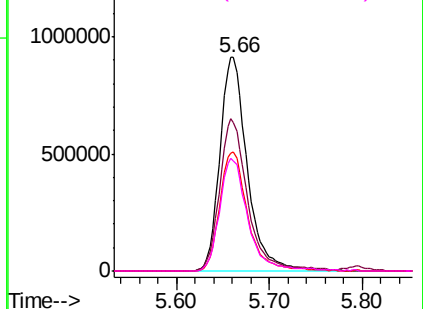


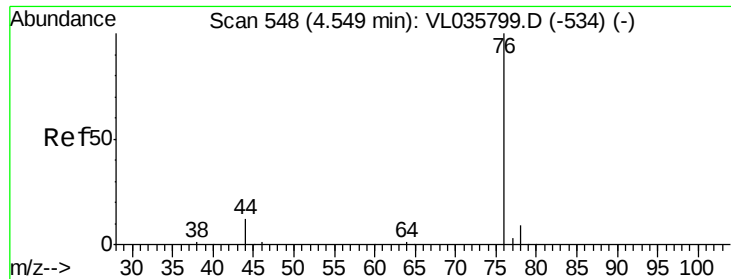
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.802 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.03 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-01DL

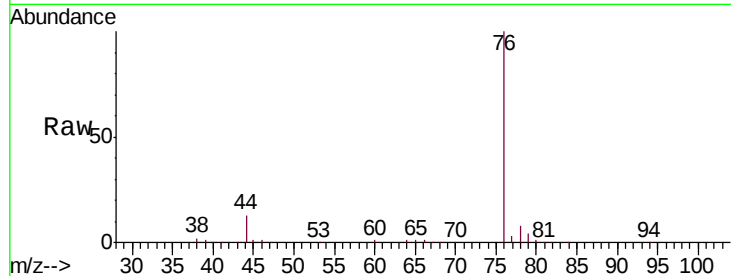
Tgt Ion: 76 Resp: 195277

Ion Ratio Lower Upper

76 100

44 13.9 9.9 14.9

78 9.9 8.1 12.1



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

120000

100000

80000

60000

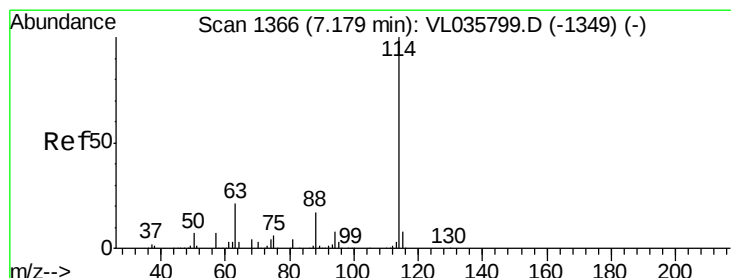
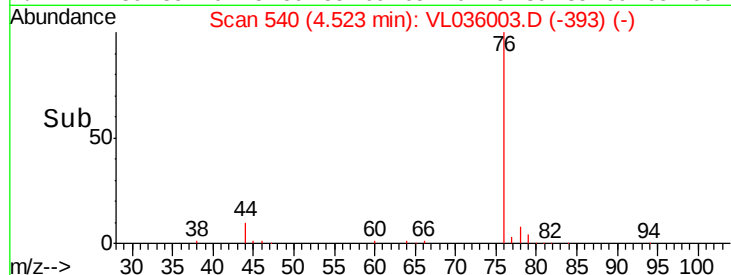
40000

20000

0

4.45 4.50 4.55 4.60

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.04 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

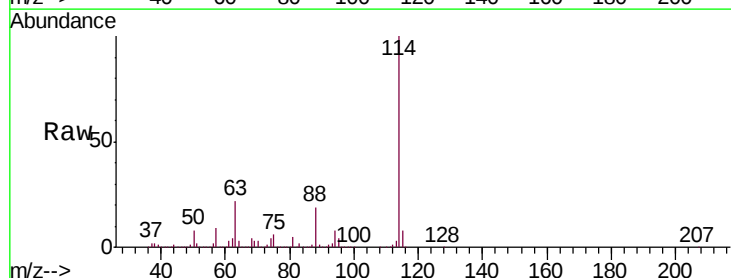
Tgt Ion: 114 Resp: 4983608

Ion Ratio Lower Upper

114 100

63 21.3 16.1 24.1

88 17.7 13.7 20.5



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

3000000

2500000

2000000

1500000

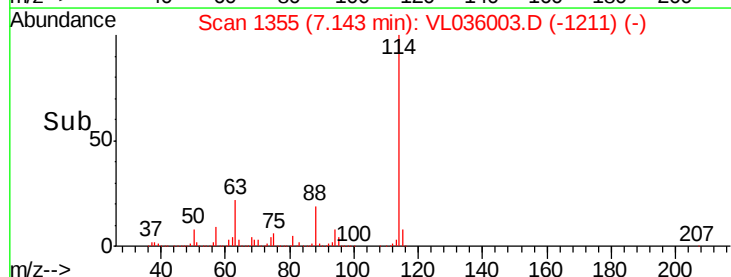
1000000

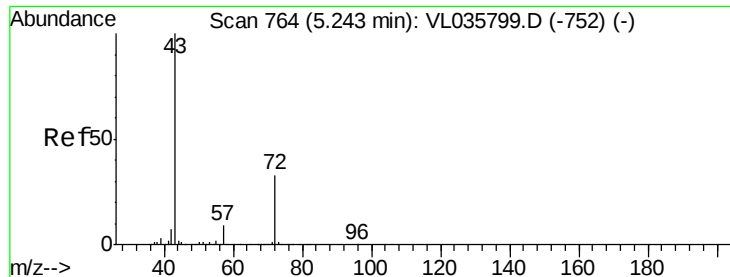
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0

7.10 7.14 7.18 7.22 7.26 7.30

Time-->

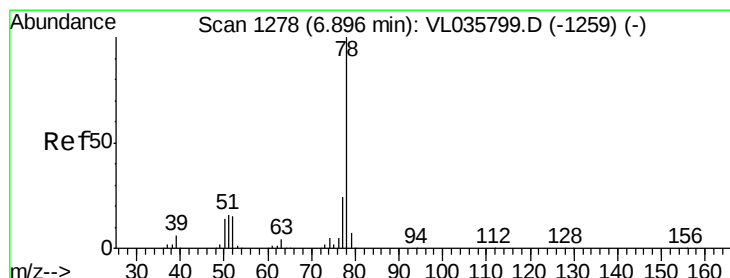
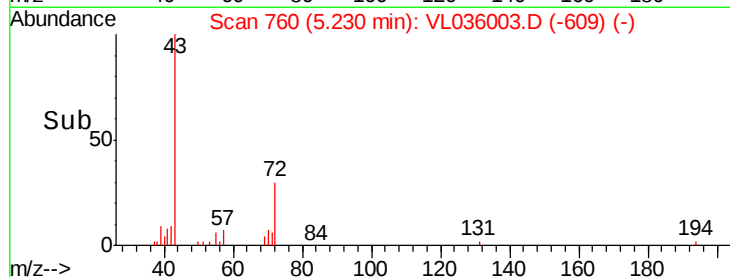
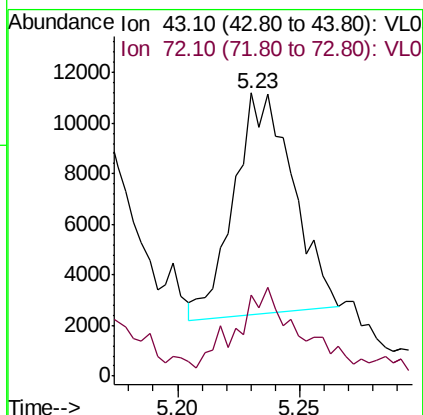
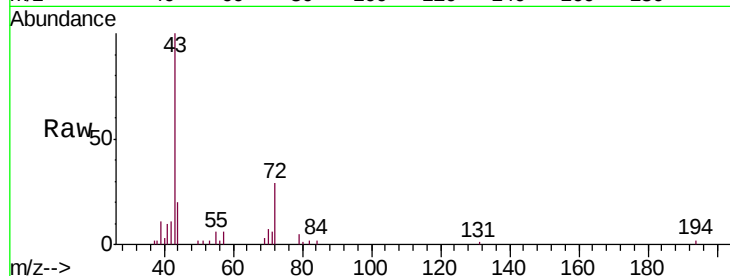




#34
 2-Butanone
 Concen: 0.091 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

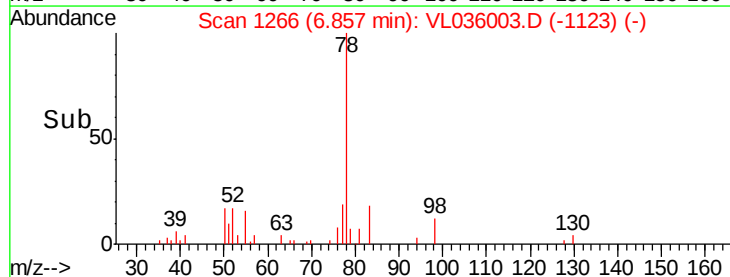
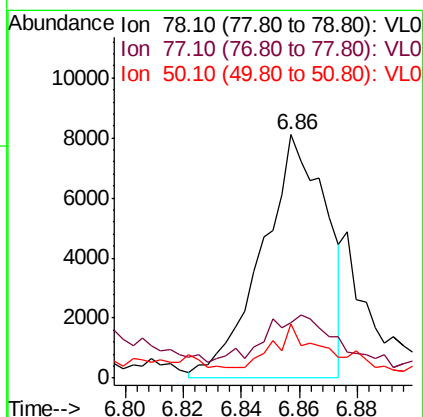
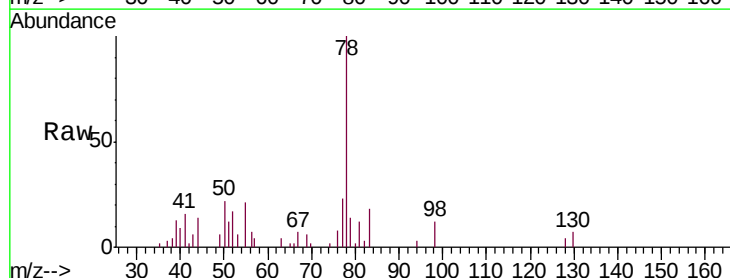
Instrument :
 MSVOA_L
 ClientSampleID :
 SVP-01DL

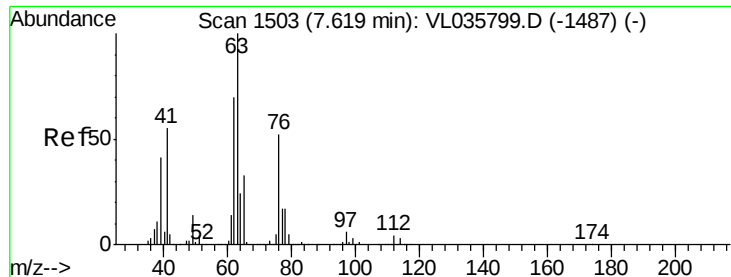
Tgt Ion: 43 Resp: 14674
 Ion Ratio Lower Upper
 43 100
 72 53.0 26.5 39.7#



#36
 Benzene
 Concen: 0.034 ppbv
 RT: 6.86 min Scan# 1266
 Delta R.T. -0.04 min
 Lab File: VL036003.D
 Acq: 24 Nov 2020 21:06

Tgt Ion: 78 Resp: 12448
 Ion Ratio Lower Upper
 78 100
 77 14.6 19.3 28.9#
 50 14.2 11.4 17.2





#39

1,2-Dichloropropane

Concen: 8.457 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.48 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-01DL

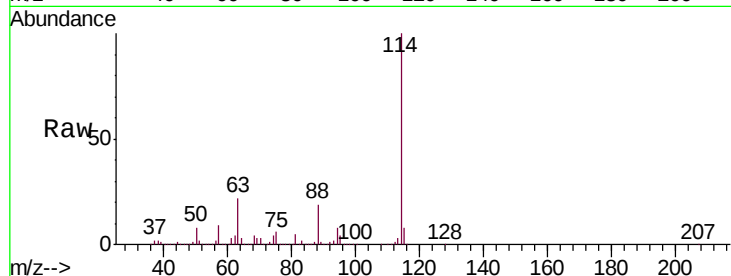
Tgt Ion: 63 Resp: 1054900

Ion Ratio Lower Upper

63 100

41 0.0 43.8 65.6#

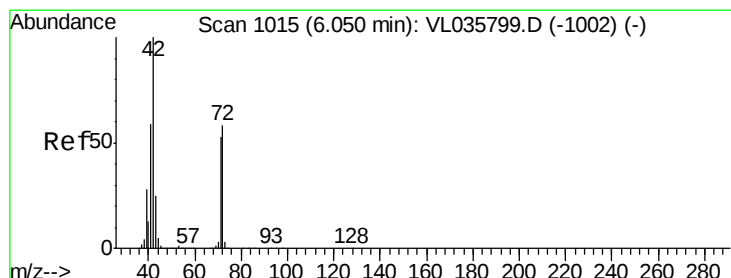
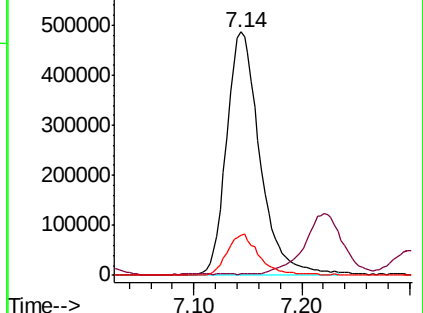
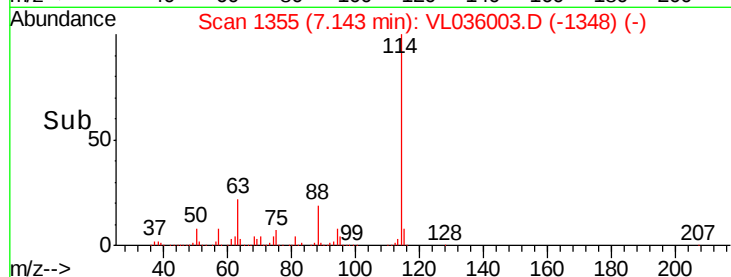
62 16.5 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 1.447 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. 0.24 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

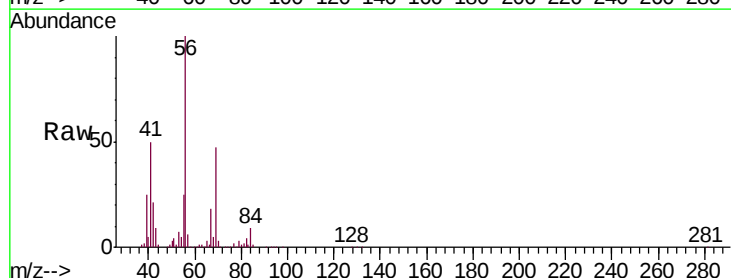
Tgt Ion: 42 Resp: 132982

Ion Ratio Lower Upper

42 100

72 0.0 45.4 68.0#

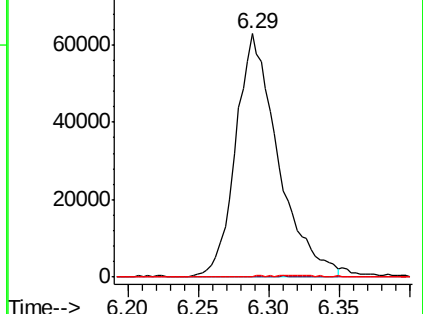
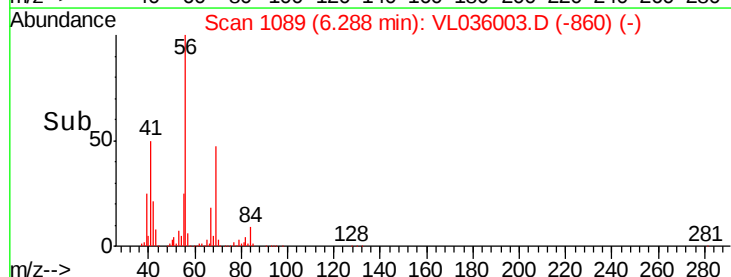
71 0.0 43.4 65.2#

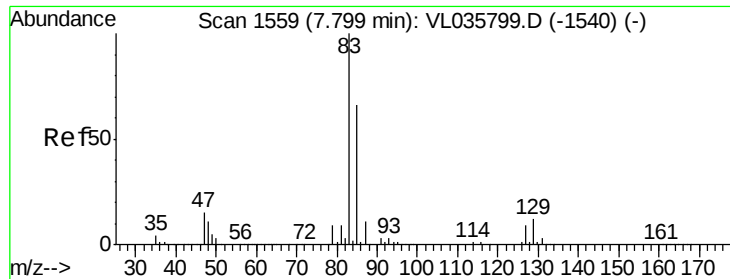


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.062 ppbv

RT: 7.76 min Scan# 1548

Delta R.T. -0.04 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

SVP-01DL

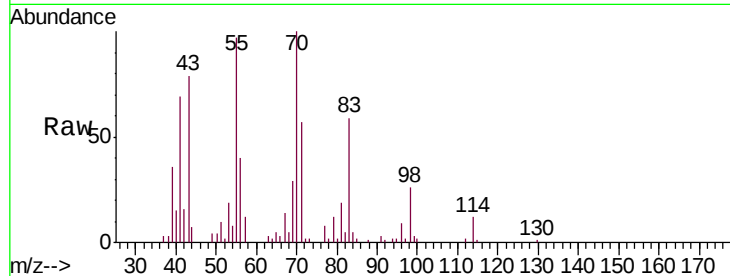
Tgt Ion: 83 Resp: 17474

Ion Ratio Lower Upper

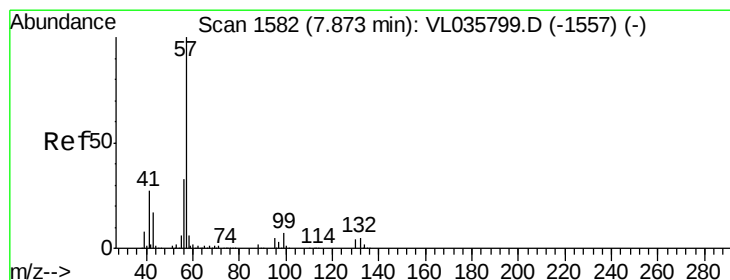
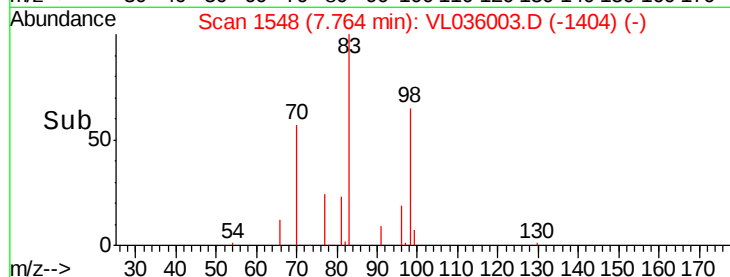
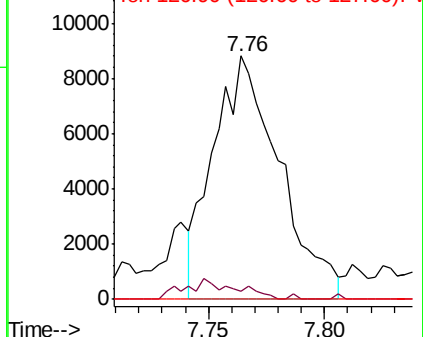
83 100

85 1.2 53.1 79.7#

127 0.0 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.637 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. 0.22 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

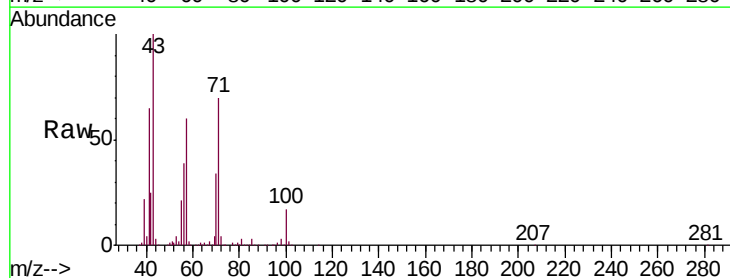
Tgt Ion: 57 Resp: 312384

Ion Ratio Lower Upper

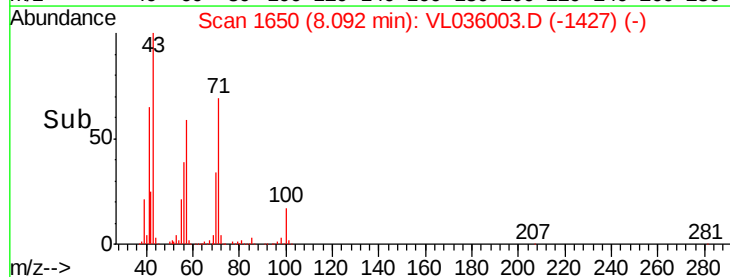
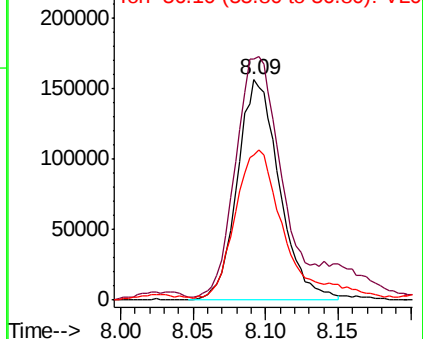
57 100

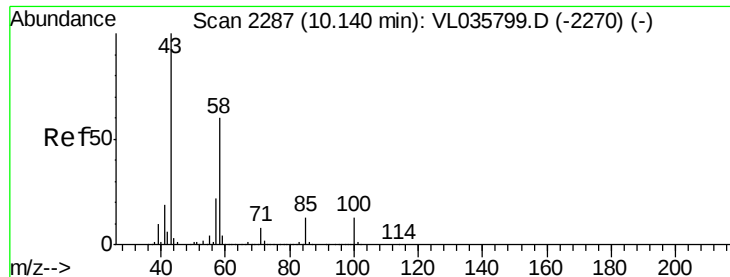
41 141.7 21.0 31.4#

56 81.8 25.4 38.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

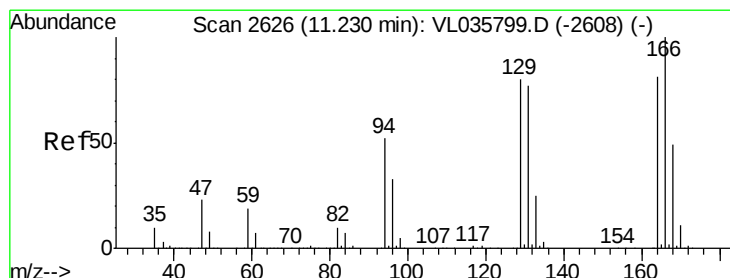
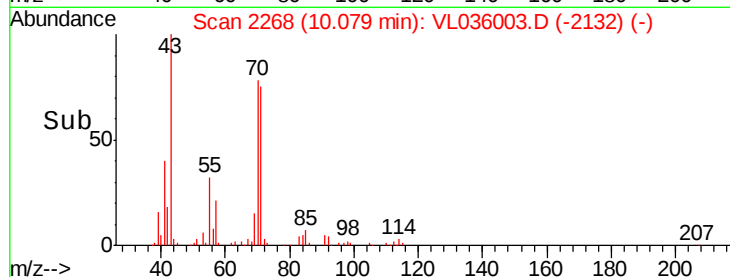
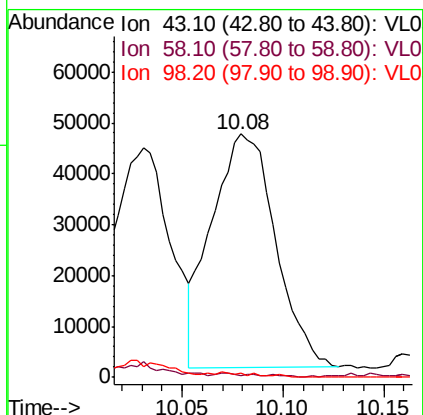
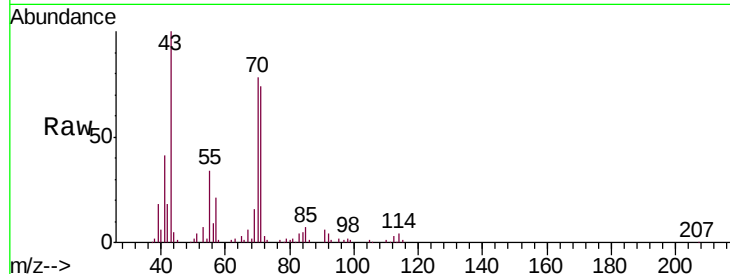




#51
2-Hexanone
Concen: 0.509 ppbv
RT: 10.08 min Scan# 2268
Delta R.T. -0.06 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

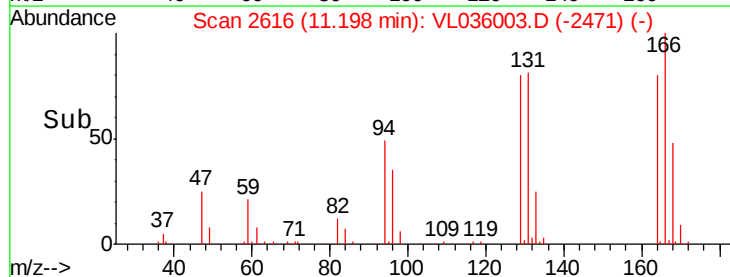
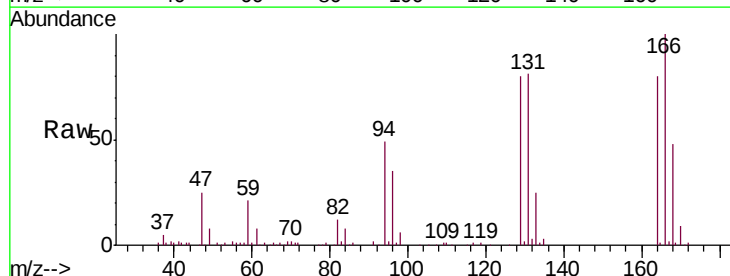
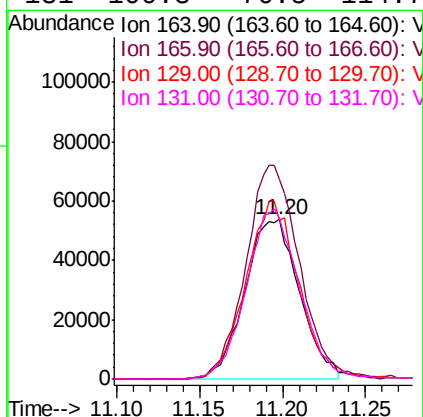
Instrument :
MSVOA_L
ClientSampleId :
SVP-01DL

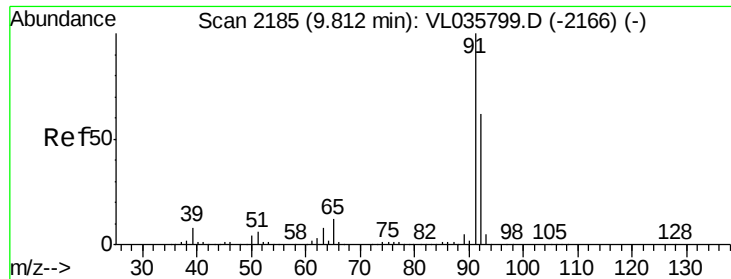
Tgt Ion: 43 Resp: 101069
Ion Ratio Lower Upper
43 100
58 1.2 48.3 72.5#
98 0.9 0.6 0.8#



#52
Tetrachloroethene
Concen: 0.700 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.03 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

Tgt Ion: 164 Resp: 122898
Ion Ratio Lower Upper
164 100
166 124.8 99.3 148.9
129 99.0 79.3 118.9
131 100.3 76.5 114.7





#53

Toluene

Concen: 10.847 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

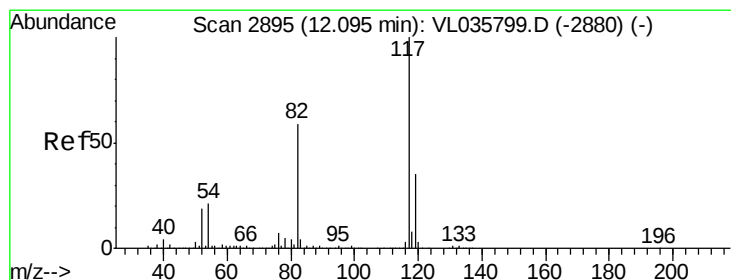
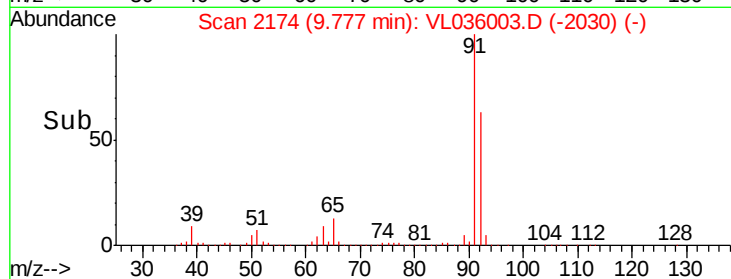
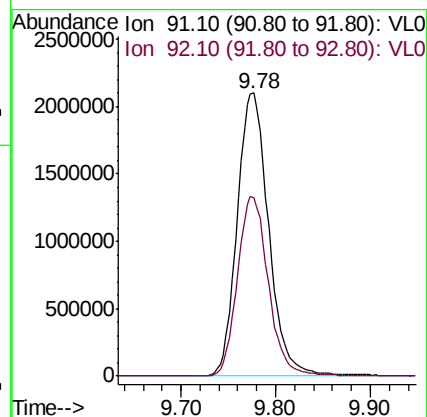
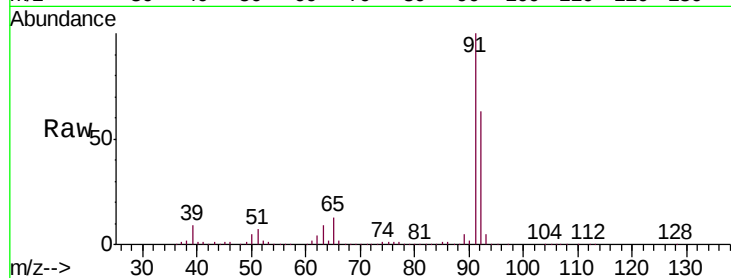
SVP-01DL

Tgt Ion: 91 Resp: 4849119

Ion Ratio Lower Upper

91 100

92 62.7 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.04 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

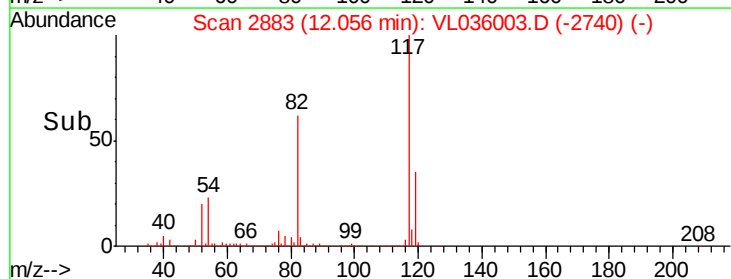
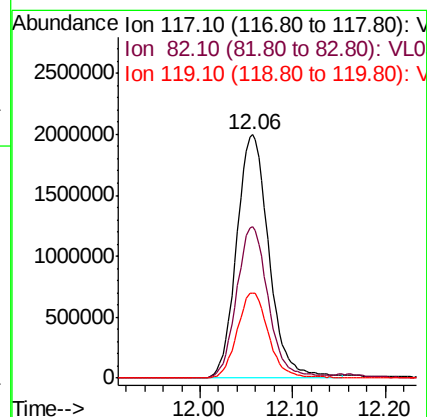
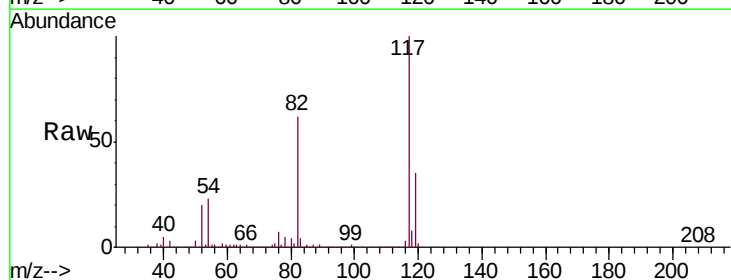
Tgt Ion: 117 Resp: 4837018

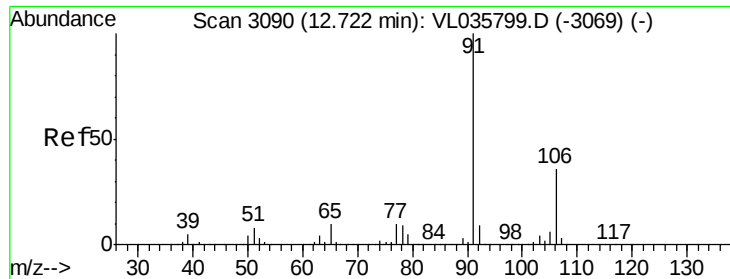
Ion Ratio Lower Upper

117 100

82 60.7 50.6 76.0

119 34.7 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.704 ppbv

RT: 12.68 min Scan# 3077

Delta R.T. -0.04 min

Lab File: VL036003.D

Acq: 24 Nov 2020 21:06

Instrument :

MSVOA_L

ClientSampleId :

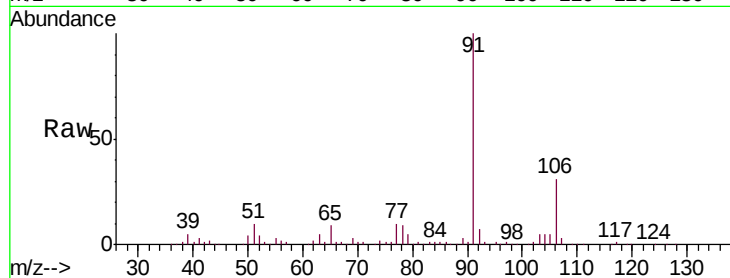
SVP-01DL

Tgt Ion: 91 Resp: 414630

Ion Ratio Lower Upper

91 100

106 31.1 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

200000

150000

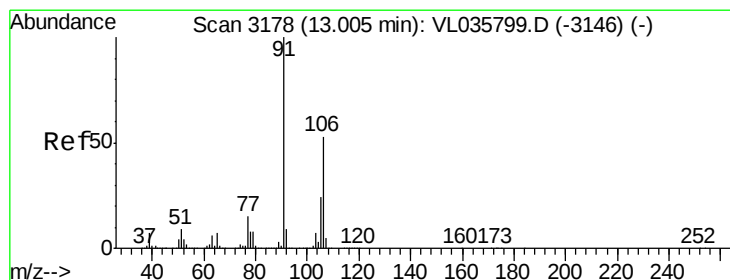
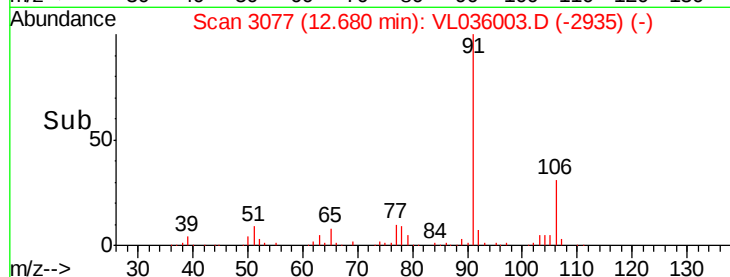
100000

50000

0

12.60 12.65 12.70 12.75

Time-->



#59

m/p-Xylene

Concen: 2.554 ppbv

RT: 12.94 min Scan# 3157

Delta R.T. -0.07 min

Lab File: VL036003.D

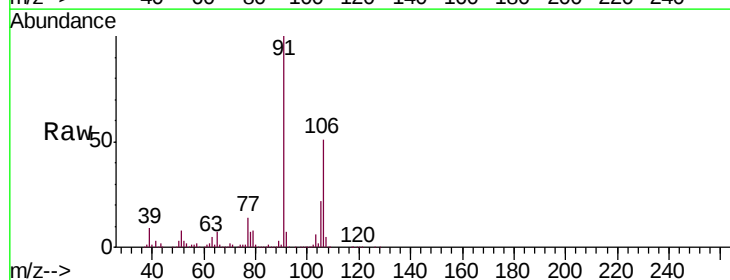
Acq: 24 Nov 2020 21:06

Tgt Ion: 91 Resp: 1273038

Ion Ratio Lower Upper

91 100

106 50.3 39.5 59.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

500000

400000

300000

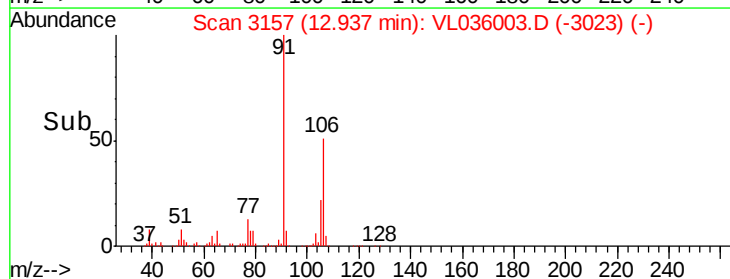
200000

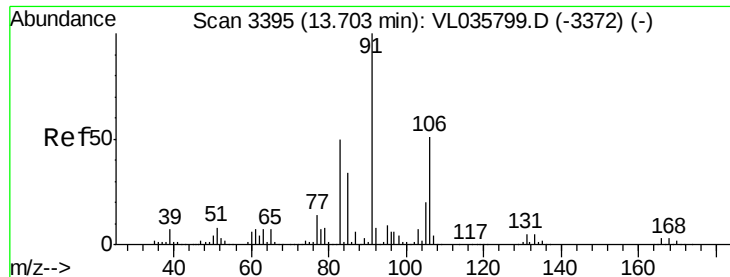
100000

0

12.90 13.00

Time-->

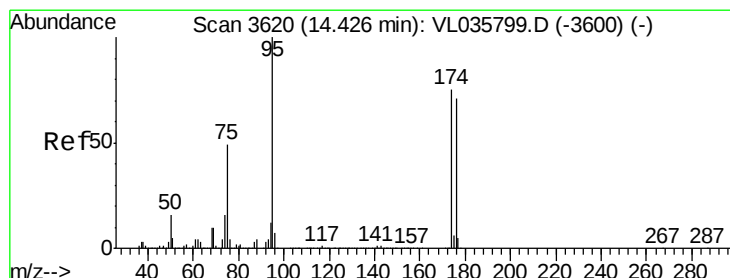
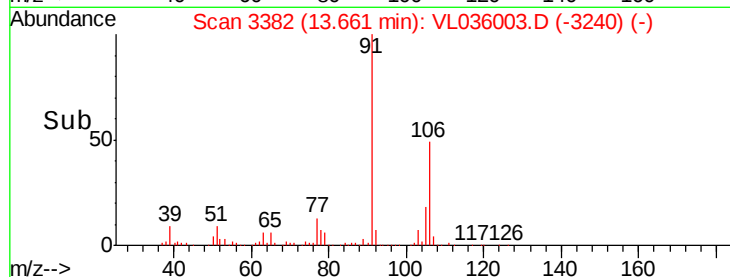
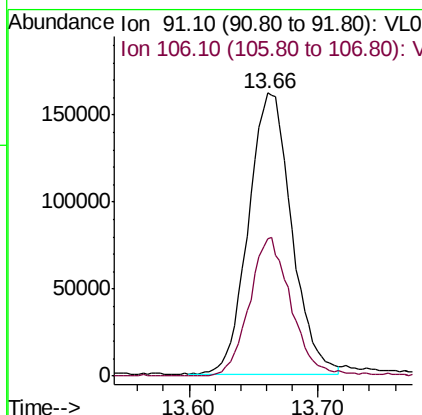
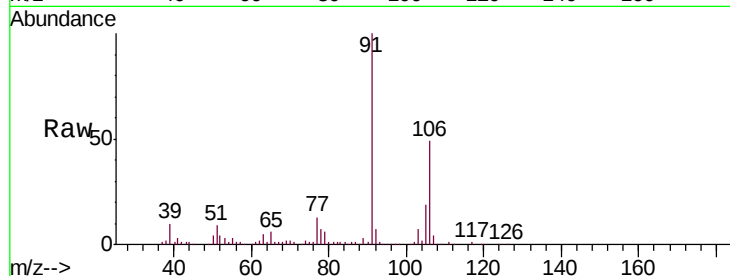




#60
o-Xylene
Concen: 0.779 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.04 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

Instrument :
MSVOA_L
ClientSampleId :
SVP-01DL

Tgt Ion: 91 Resp: 377830
Ion Ratio Lower Upper
91 100
106 47.8 24.8 74.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.705 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.04 min
Lab File: VL036003.D
Acq: 24 Nov 2020 21:06

Tgt Ion: 95 Resp: 3678877
Ion Ratio Lower Upper
95 100
174 69.2 59.8 89.6
175 4.9 4.3 6.5

