

Data File : VL034825.D
Acq On : 6 Mar 2020 21:51
Operator : SY/AP
Sample : L1698-04DL2 300X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-4-4DL

Quant Time: Mar 07 03:18:40 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	821892	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.19	114	1971169	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	1910802	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1553708	9.75	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

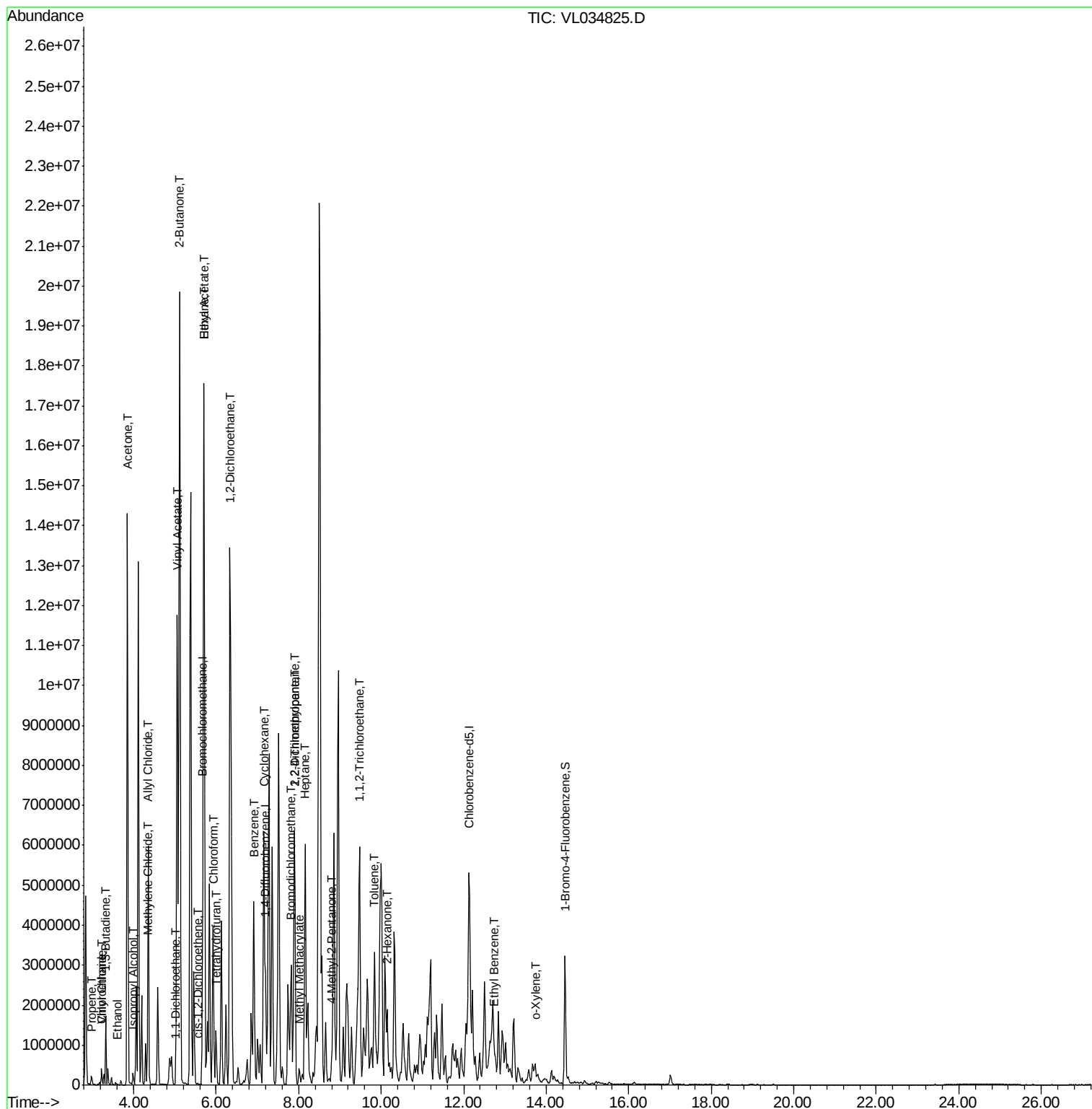
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.22	62	327160	6.140	ppbv	98
7) Chloroethane	3.22	64	101929	5.533	ppbv #	44
9) Propene	2.98	41	82751	2.245	ppbv	89
10) Heptane	8.16	43	2965144	31.656	ppbv	99
13) Ethanol	3.61	45	4178	0.331	ppbv #	45
15) Acetone	3.85	43	5264755	53.492	ppbv #	56
16) 1,3-Butadiene	3.32	39	195950	4.400	ppbv #	11
19) Isopropyl Alcohol	3.97	45	26610	0.451	ppbv #	93
20) Methylene Chloride	4.33	84	4724	0.134	ppbv #	7
21) Allyl Chloride	4.35	41	1072298	17.204	ppbv #	62
23) Vinyl Acetate	5.06	43	5376866	40.741	ppbv #	1
24) 1,1-Dichloroethane	5.00	63	7046	0.069	ppbv #	91
25) Ethyl Acetate	5.70	43	6487480	38.144	ppbv #	76
26) Hexane	5.70	57	8343549	112.295	ppbv #	42
29) Chloroform	5.93	83	14346	0.115	ppbv	91
30) Cyclohexane	7.16	84	2320363	40.821	ppbv	97
31) cis-1,2-Dichloroethene	5.56	61	5646	0.074	ppbv	88
34) 2-Butanone	5.11	43	11105265	86.598	ppbv #	61
36) Benzene	6.91	78	3306587	19.631	ppbv	98
37) 1,2-Dichloroethane	6.33	62	13250	0.115	ppbv #	84
39) 1,2-Dichloropropane	7.89	63	7468	0.110	ppbv #	1
41) Tetrahydrofuran	5.99	42	191585	2.928	ppbv #	36
42) Bromodichloromethane	7.83	83	552540	3.796	ppbv #	25
43) Methyl Methacrylate	8.01	69	191697	2.686	ppbv #	46
44) 2,2,4-Trimethylpentane	7.90	57	4409774	14.981	ppbv #	62
47) 1,1,2-Trichloroethane	9.47	97	253675	3.535	ppbv #	1
50) 4-Methyl-2-Pentanone	8.80	43	28164	0.153	ppbv #	39
51) 2-Hexanone	10.14	43	385450	2.674	ppbv #	29
53) Toluene	9.84	91	993110	5.571	ppbv	99
58) Ethyl Benzene	12.75	91	68930	0.293	ppbv	96
60) o-Xylene	13.73	91	21743	0.105	ppbv	96

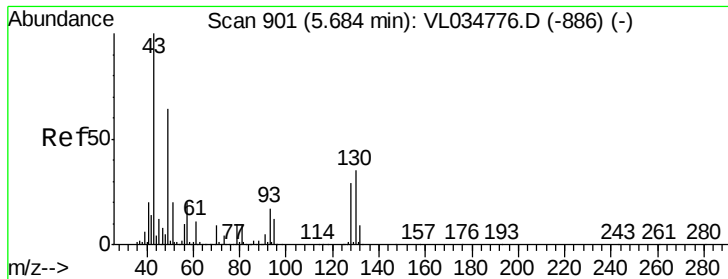
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

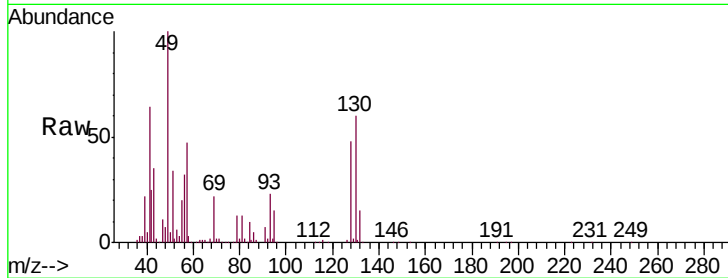
Tgt Ion: 49 Resp: 821892

Ion Ratio Lower Upper

49 100

128 46.7 21.6 64.6

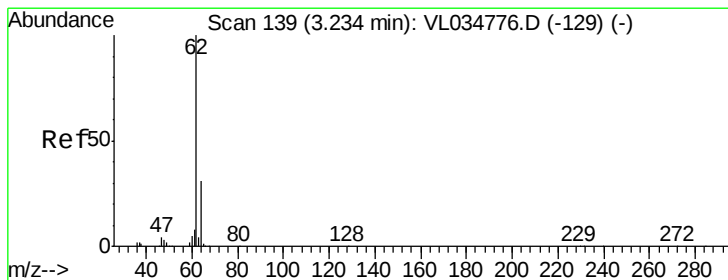
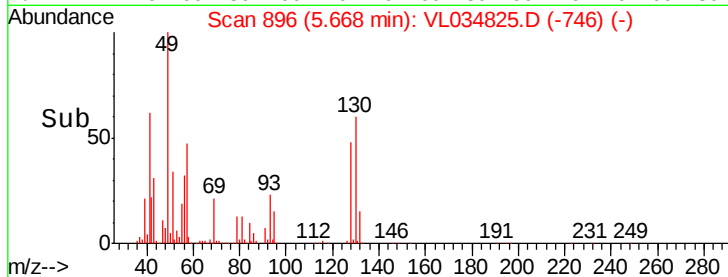
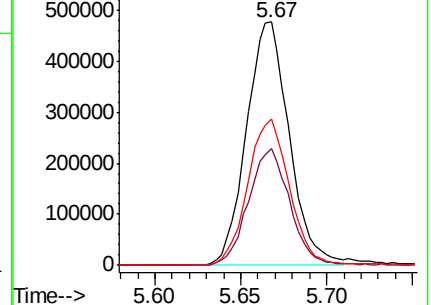
130 59.6 27.4 82.2



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



#5

Vinyl Chloride

Concen: 6.140 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.01 min

Lab File: VL034825.D

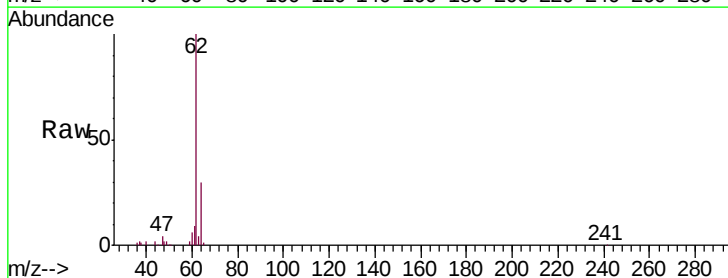
Acq: 6 Mar 2020 21:51

Tgt Ion: 62 Resp: 327160

Ion Ratio Lower Upper

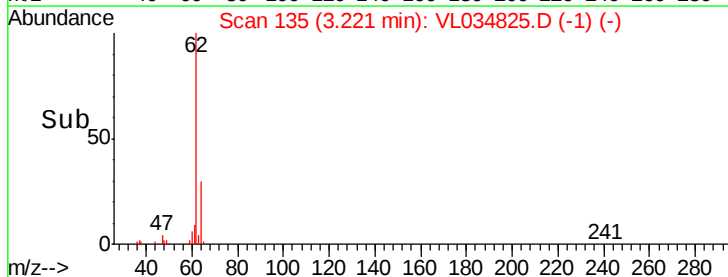
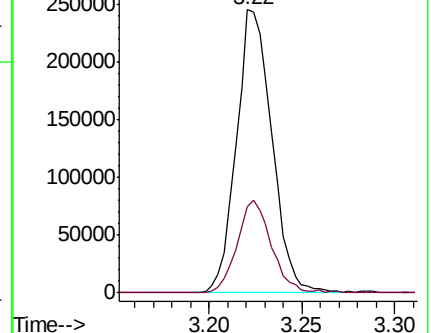
62 100

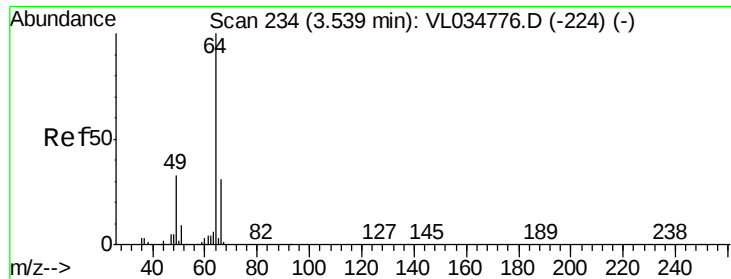
64 30.5 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#7

Chloroethane

Concen: 5.533 ppbv

RT: 3.22 min Scan# 136

Delta R.T. -0.32 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

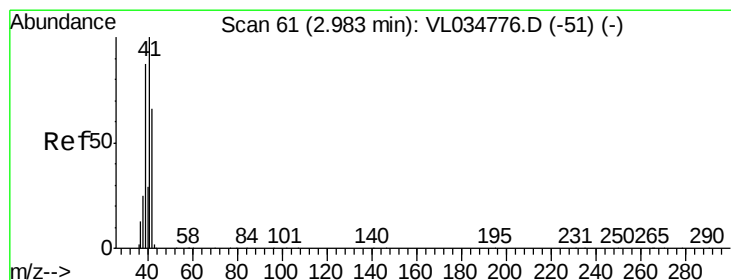
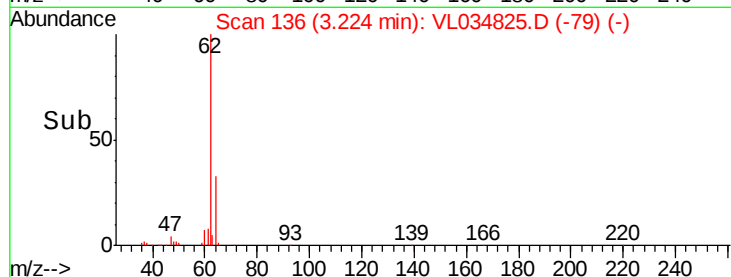
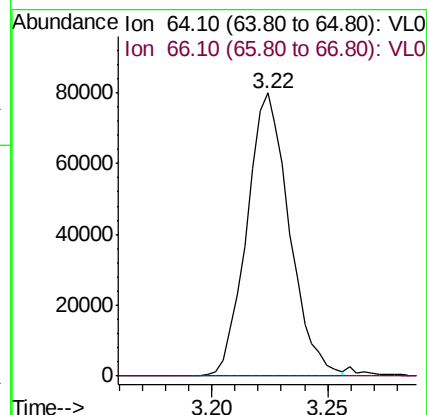
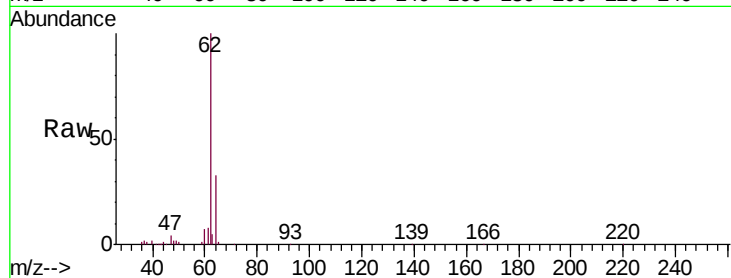
SS-4-4DL

Tgt Ion: 64 Resp: 101929

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



#9

Propene

Concen: 2.245 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL034825.D

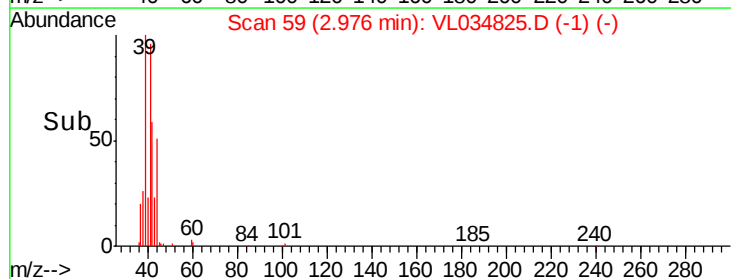
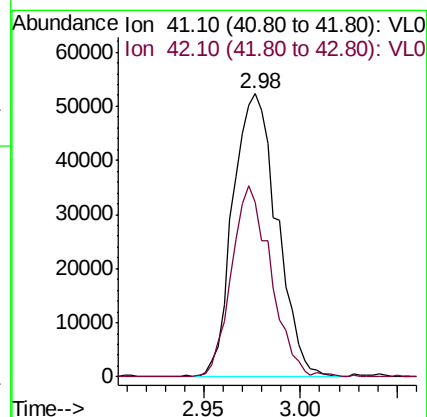
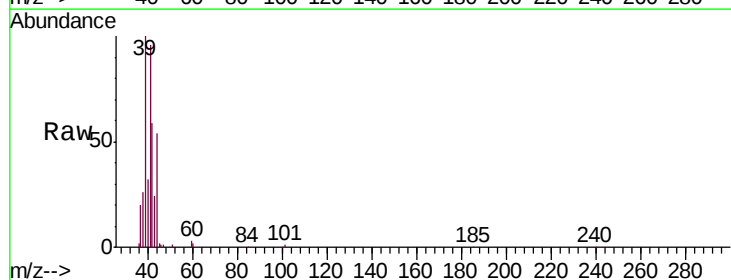
Acq: 6 Mar 2020 21:51

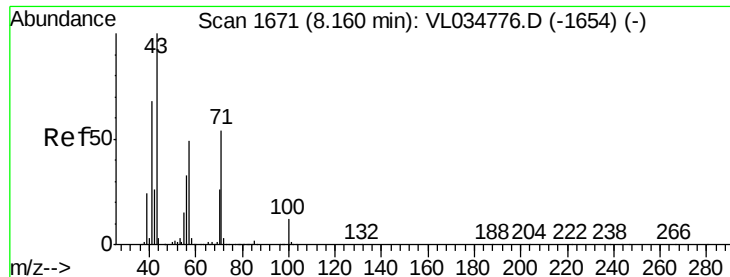
Tgt Ion: 41 Resp: 82751

Ion Ratio Lower Upper

41 100

42 60.4 55.6 83.4





#10

Heptane

Concen: 31.656 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

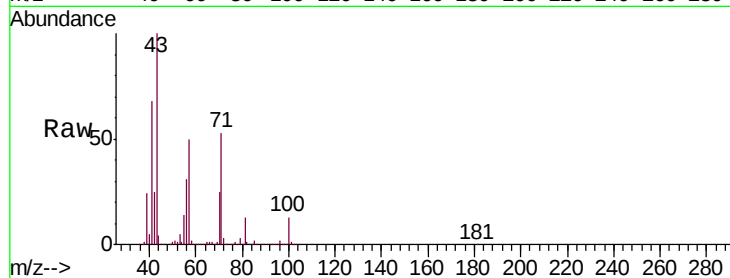
SS-4-4DL

Tgt Ion: 43 Resp: 2965144

Ion Ratio Lower Upper

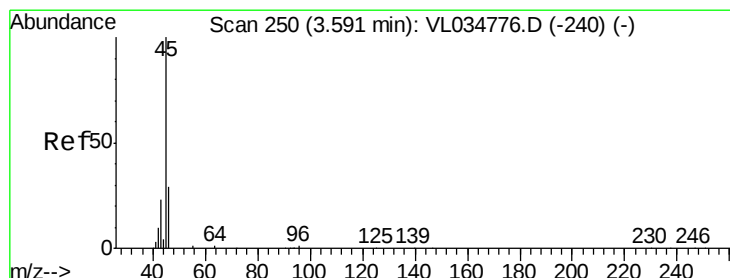
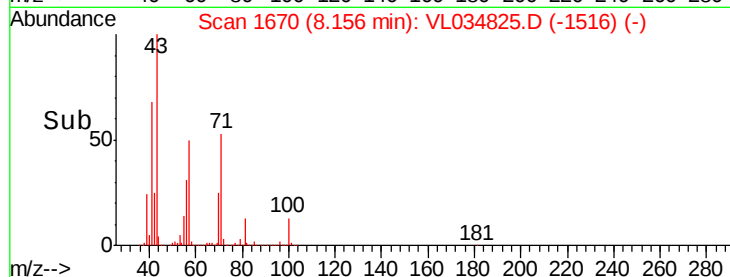
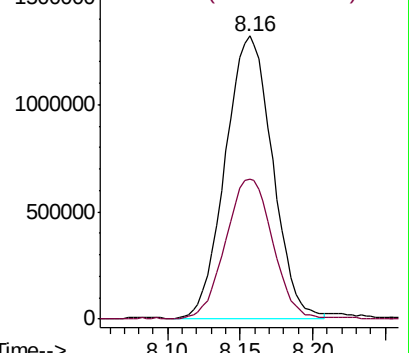
43 100

57 50.2 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.331 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.02 min

Lab File: VL034825.D

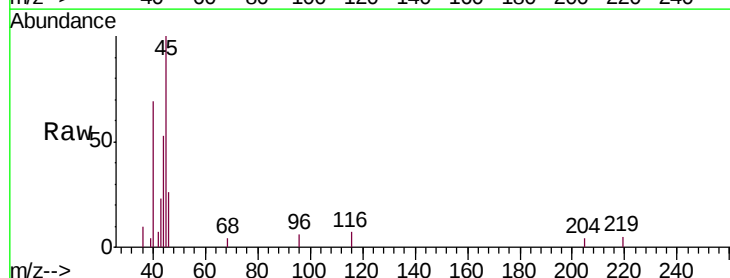
Acq: 6 Mar 2020 21:51

Tgt Ion: 45 Resp: 4178

Ion Ratio Lower Upper

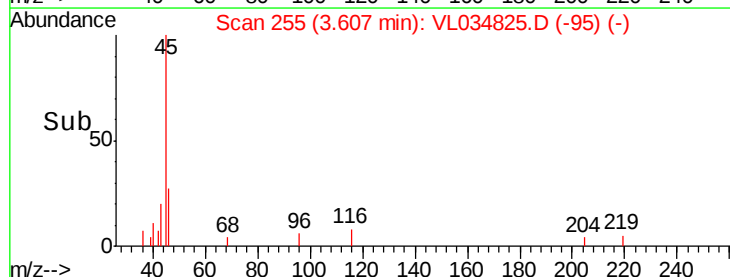
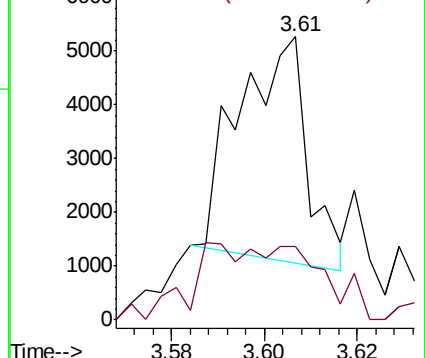
45 100

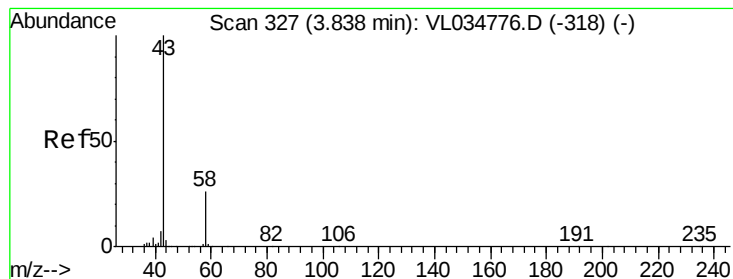
46 69.7 14.7 58.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 53.492 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

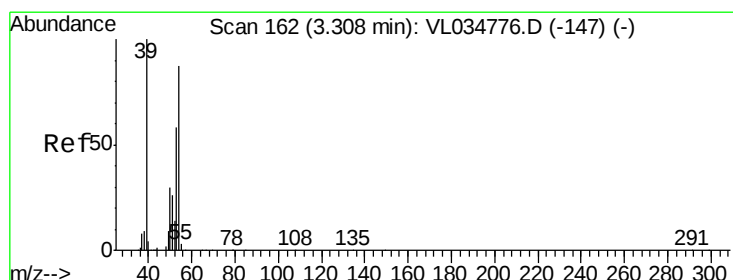
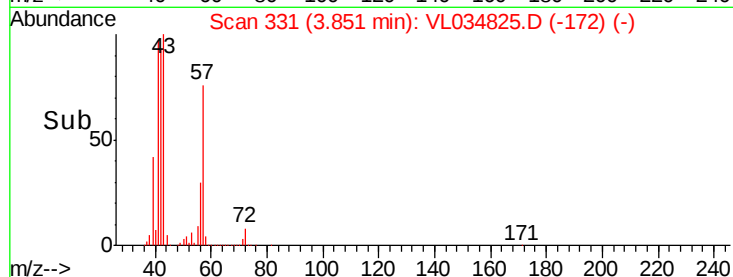
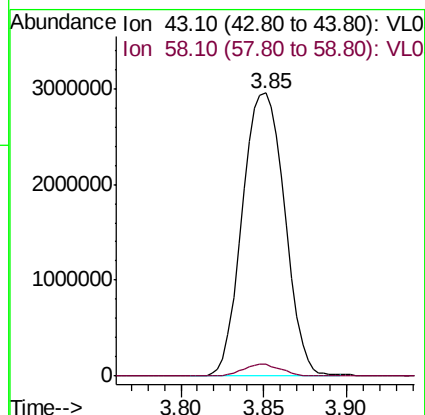
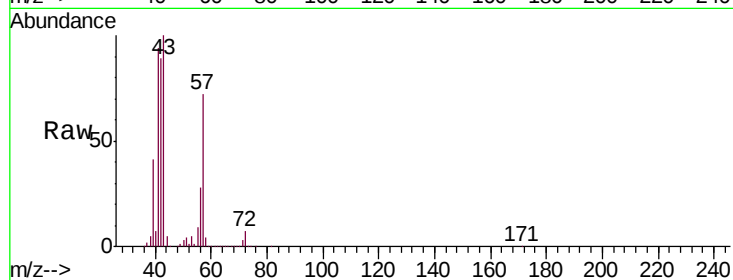
SS-4-4DL

Tgt Ion: 43 Resp: 5264755

Ion Ratio Lower Upper

43 100

58 3.8 21.0 31.6#



#16

1,3-Butadiene

Concen: 4.400 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.02 min

Lab File: VL034825.D

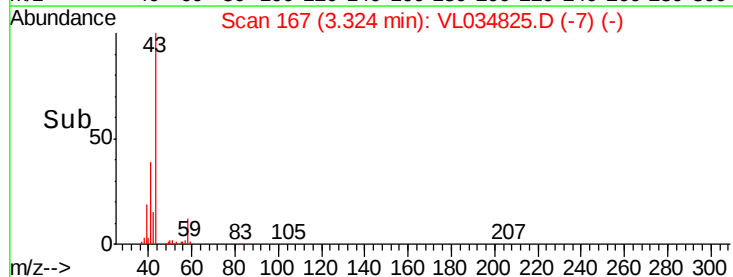
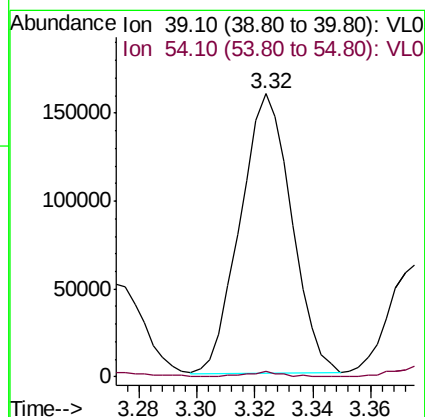
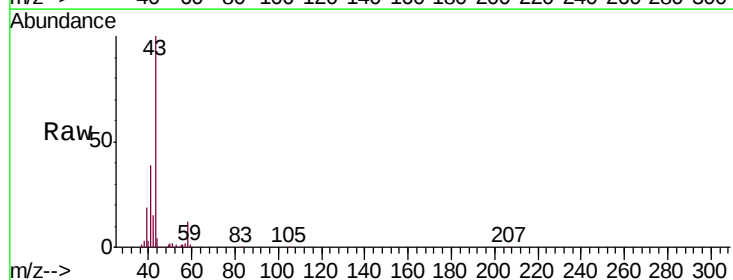
Acq: 6 Mar 2020 21:51

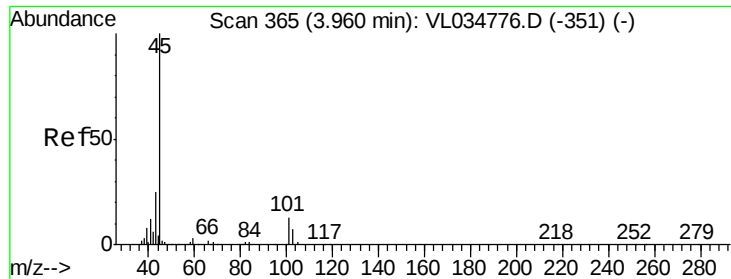
Tgt Ion: 39 Resp: 195950

Ion Ratio Lower Upper

39 100

54 1.5 64.2 96.2#





#19

Isopropyl Alcohol

Concen: 0.451 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

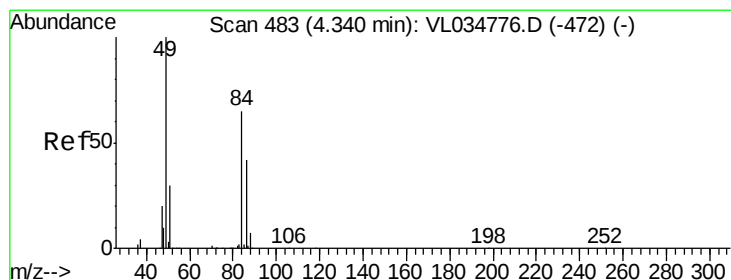
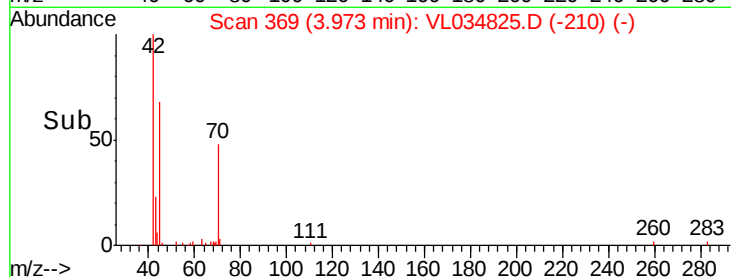
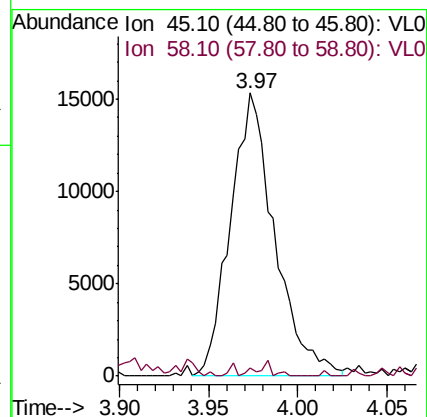
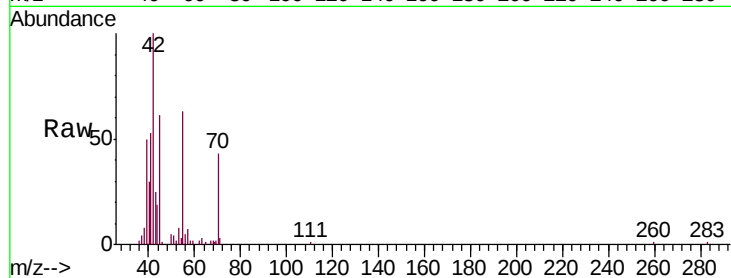
SS-4-4DL

Tgt Ion: 45 Resp: 26610

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.134 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Tgt Ion: 84 Resp: 4724

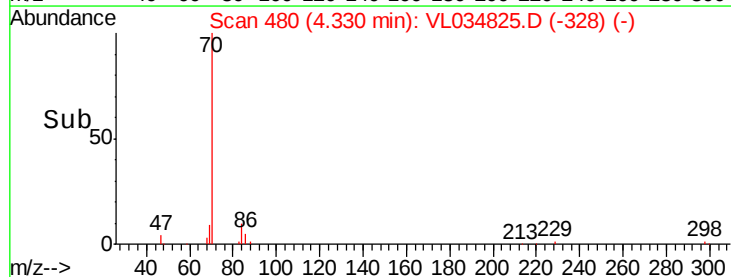
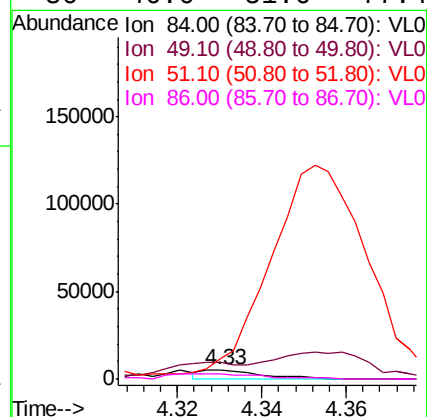
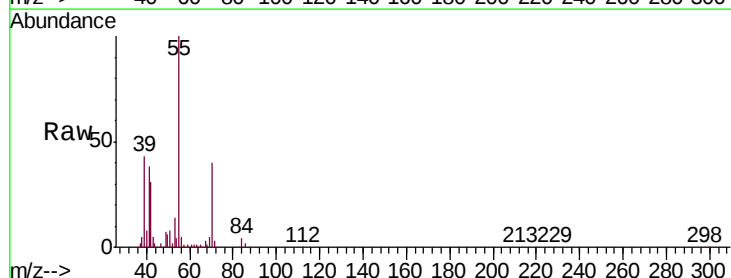
Ion Ratio Lower Upper

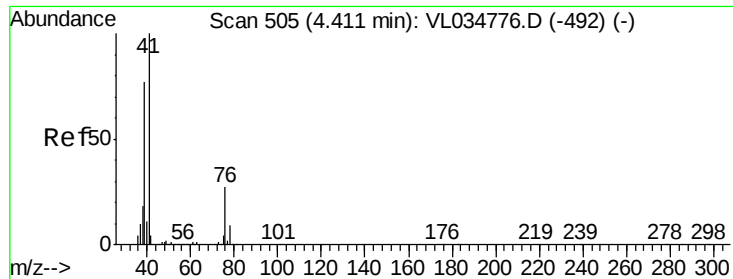
84 100

49 17.7 123.2 184.8#

51 143.5 37.4 56.2#

86 46.6 51.6 77.4#

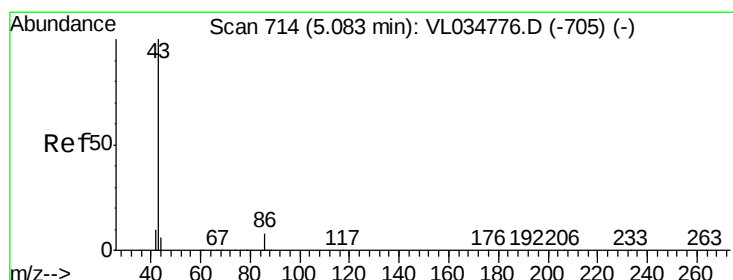
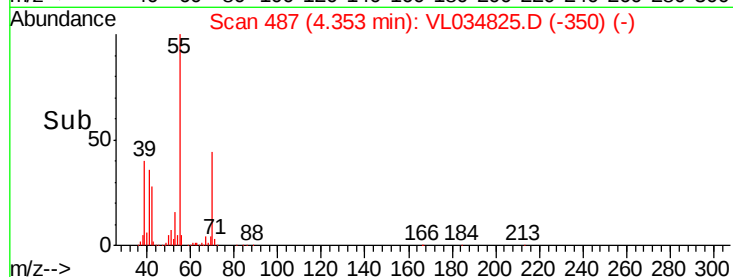
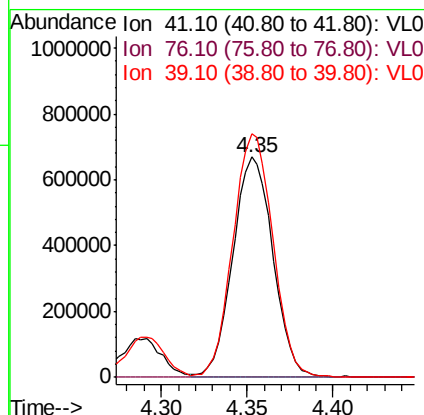
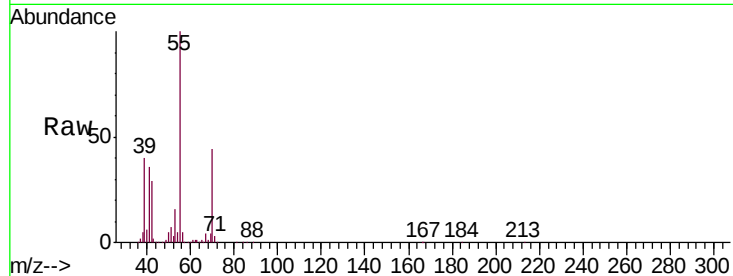




#21
 Allyl Chloride
 Concen: 17.204 ppbv
 RT: 4.35 min Scan# 487
 Delta R.T. -0.06 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

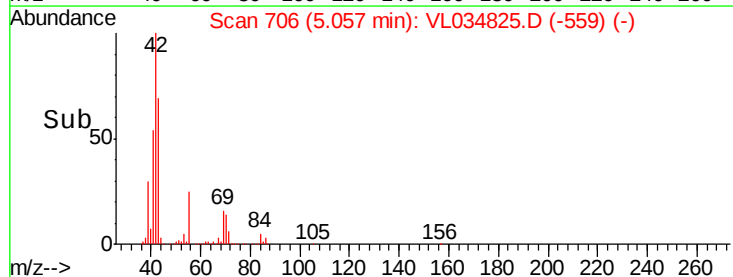
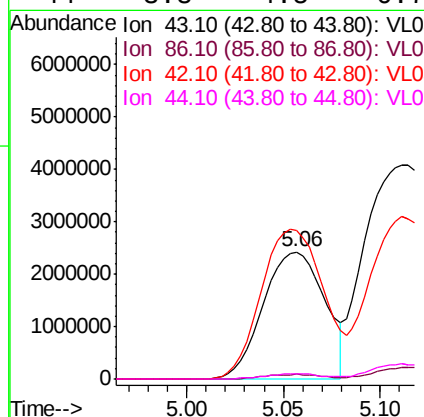
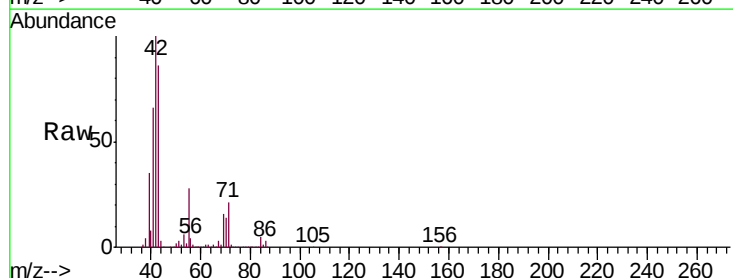
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4DL

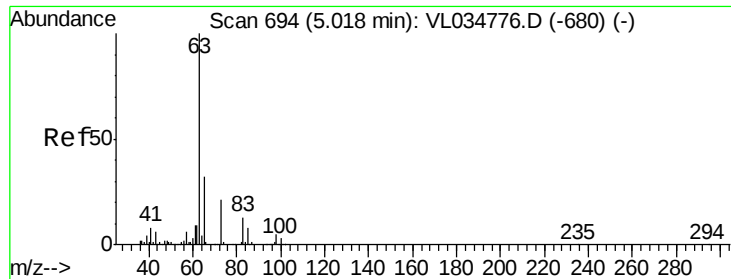
Tgt Ion: 41 Resp: 1072298
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.5 33.7#
 39 110.9 65.0 97.6#



#23
 Vinyl Acetate
 Concen: 40.741 ppbv
 RT: 5.06 min Scan# 706
 Delta R.T. -0.03 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

Tgt Ion: 43 Resp: 5376866
 Ion Ratio Lower Upper
 43 100
 86 3.7 5.9 8.9#
 42 116.6 8.2 12.2#
 44 3.8 4.5 6.7#





#24

1,1-Dichloroethane

Concen: 0.069 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

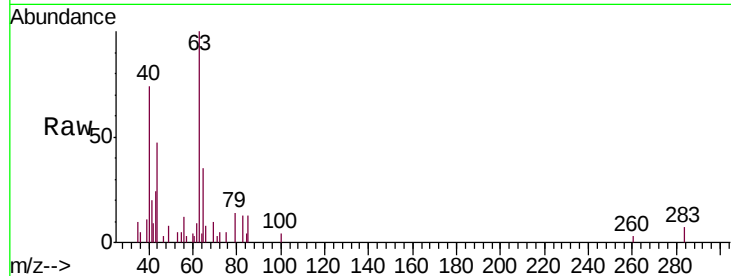
Tgt Ion: 63 Resp: 7046

Ion Ratio Lower Upper

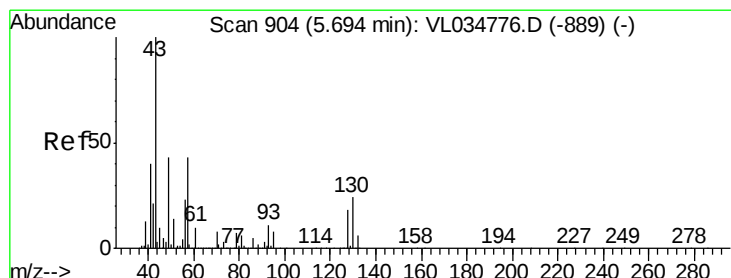
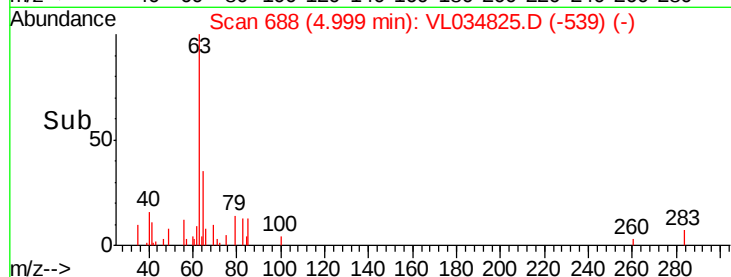
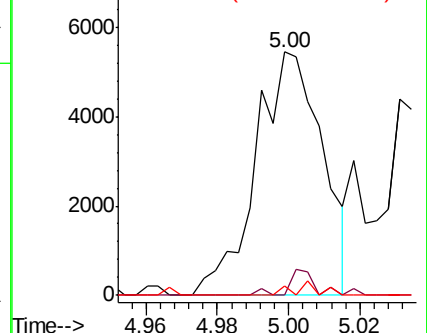
63 100

98 0.0 2.3 6.8#

100 3.7 1.5 4.4



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 38.144 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Tgt Ion: 43 Resp: 6487480

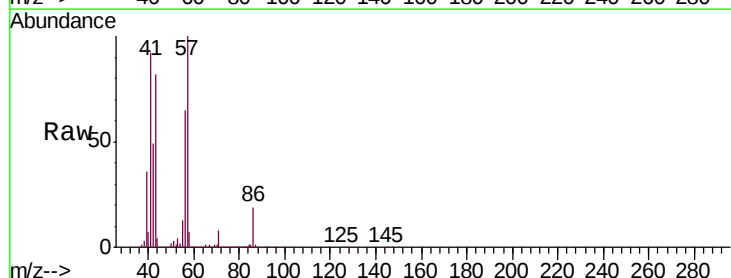
Ion Ratio Lower Upper

43 100

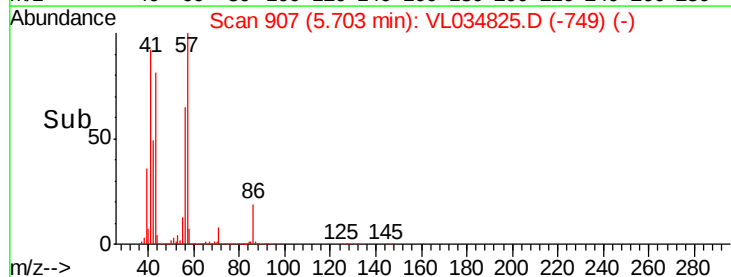
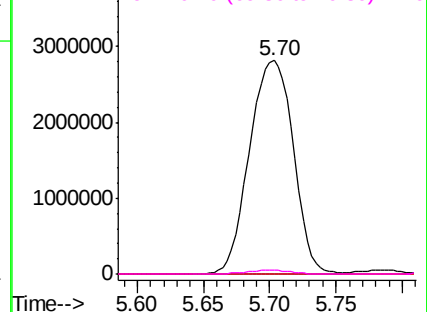
45 0.1 8.2 12.4#

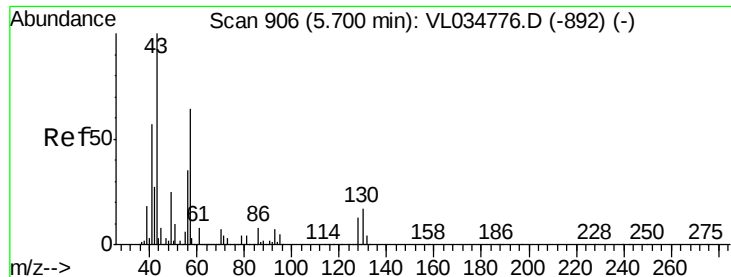
61 0.2 7.5 11.3#

70 1.8 6.0 9.0#



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

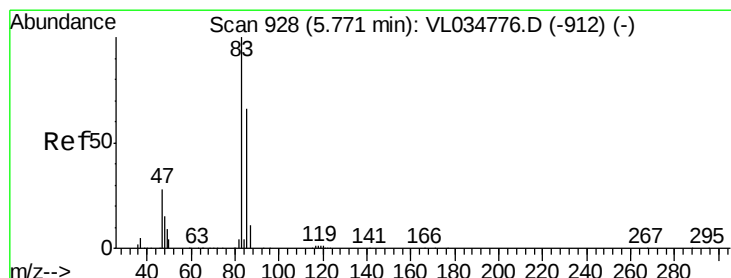
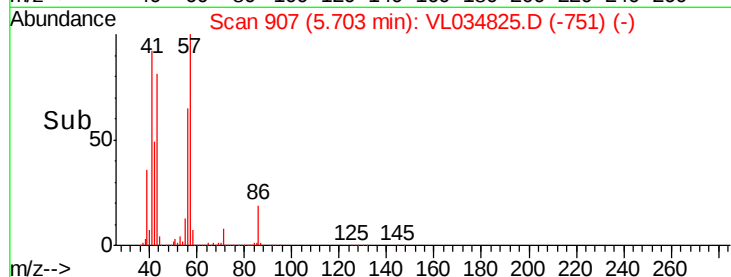
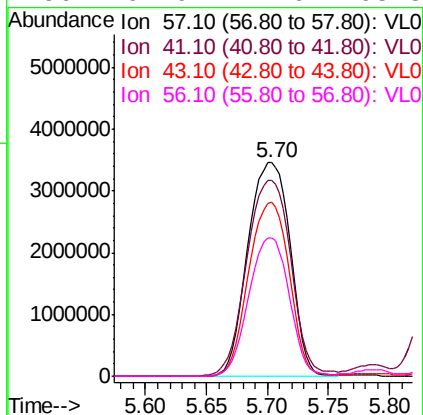
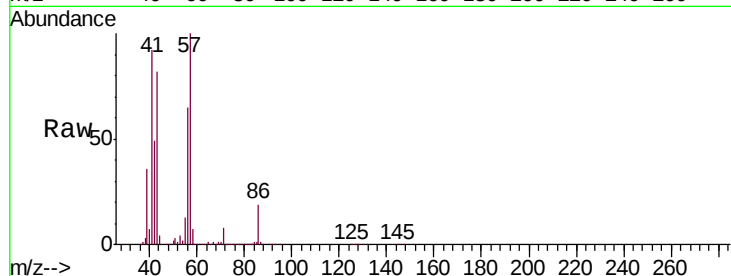




#26
Hexane
Concen: 112.295 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL034825.D
Acq: 6 Mar 2020 21:51

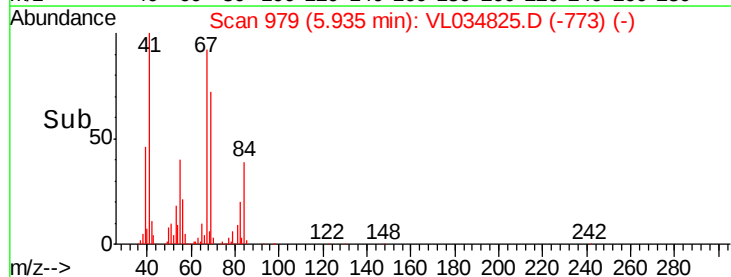
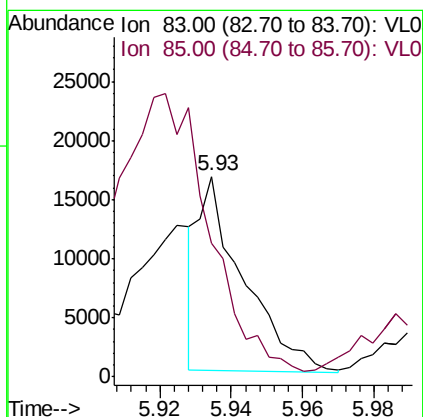
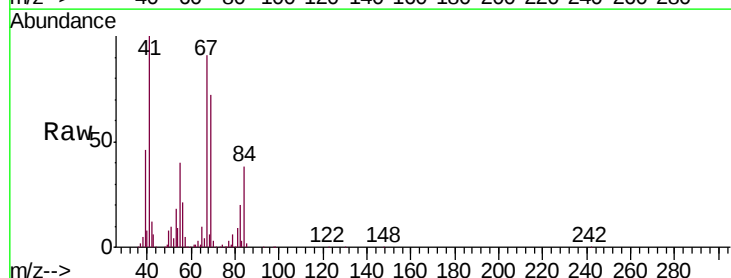
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4DL

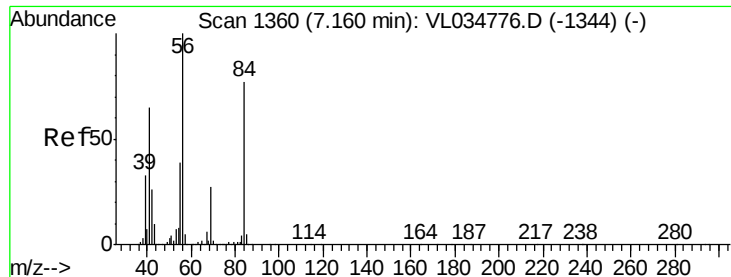
Tgt Ion: 57 Resp: 8343549
Ion Ratio Lower Upper
57 100
41 95.7 72.0 108.0
43 77.8 179.1 268.7#
56 61.9 42.6 63.8



#29
Chloroform
Concen: 0.115 ppbv
RT: 5.93 min Scan# 979
Delta R.T. 0.16 min
Lab File: VL034825.D
Acq: 6 Mar 2020 21:51

Tgt Ion: 83 Resp: 14346
Ion Ratio Lower Upper
83 100
85 58.9 53.0 79.4

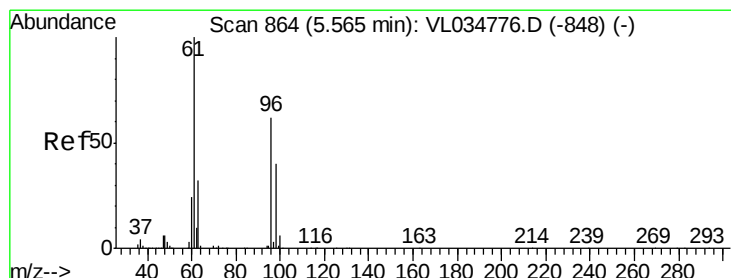
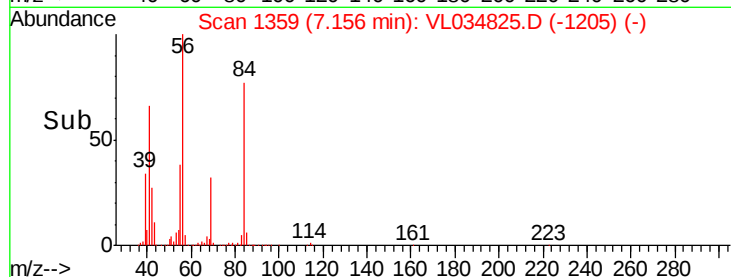
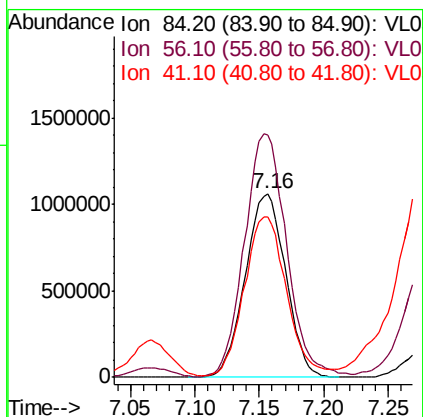
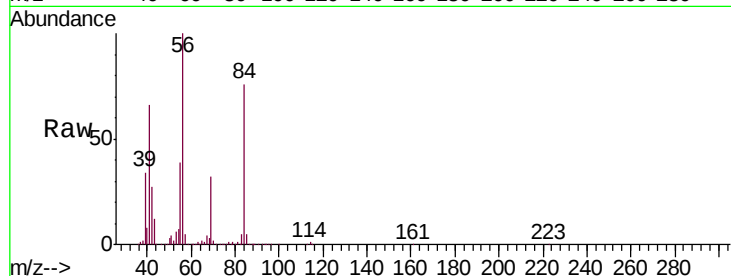




#30
Cyclohexane
Concen: 40.821 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034825.D
Acq: 6 Mar 2020 21:51

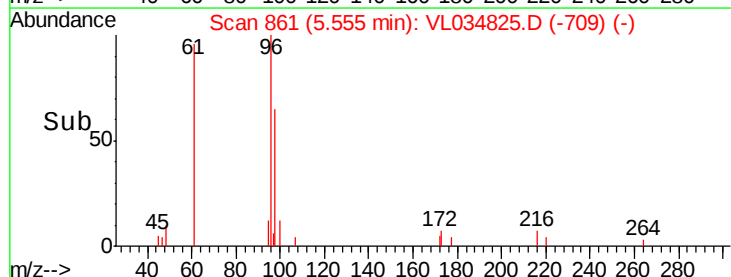
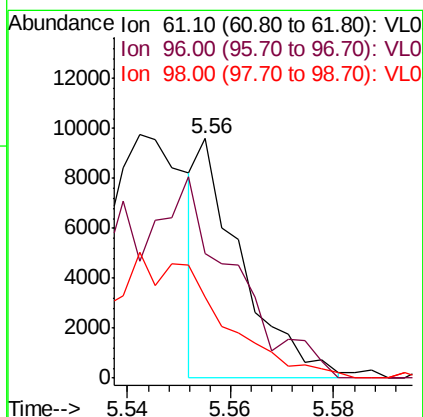
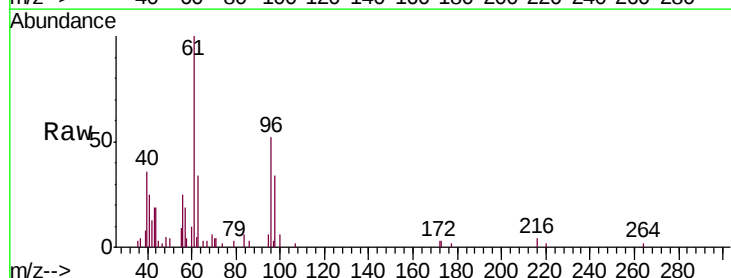
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4DL

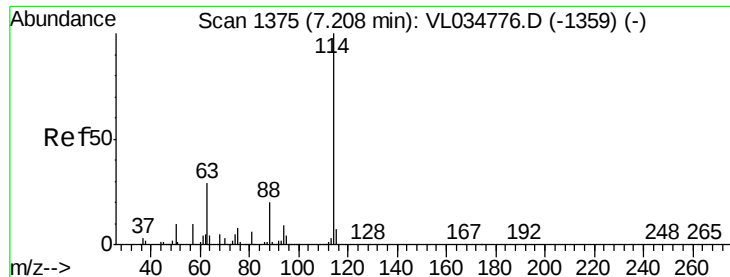
Tgt Ion: 84 Resp: 2320363
Ion Ratio Lower Upper
84 100
56 137.8 113.2 169.8
41 89.9 70.2 105.4



#31
cis-1,2-Dichloroethene
Concen: 0.074 ppbv
RT: 5.56 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL034825.D
Acq: 6 Mar 2020 21:51

Tgt Ion: 61 Resp: 5646
Ion Ratio Lower Upper
61 100
96 53.1 49.7 74.5
98 32.4 31.9 47.9

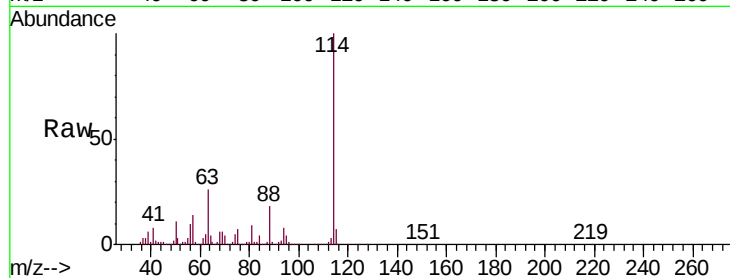




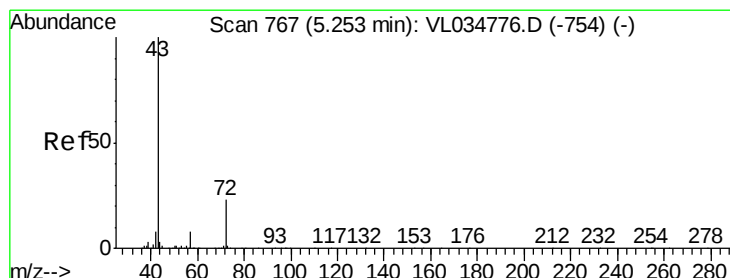
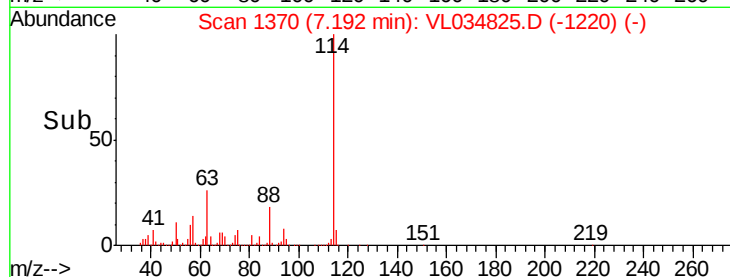
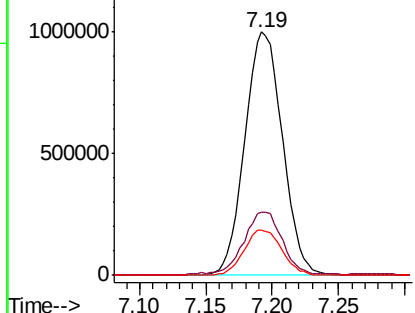
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.02 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4DL

Tgt Ion:114 Resp: 1971169
 Ion Ratio Lower Upper
 114 100
 63 27.3 23.6 35.4
 88 18.8 15.8 23.8

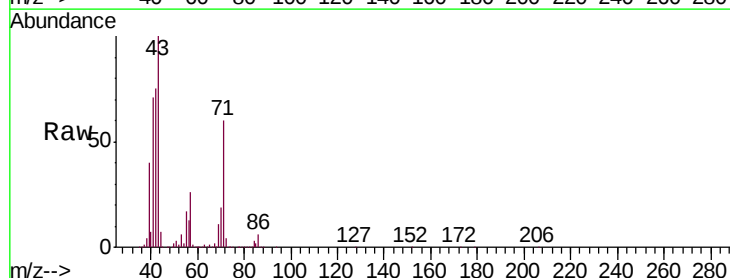


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

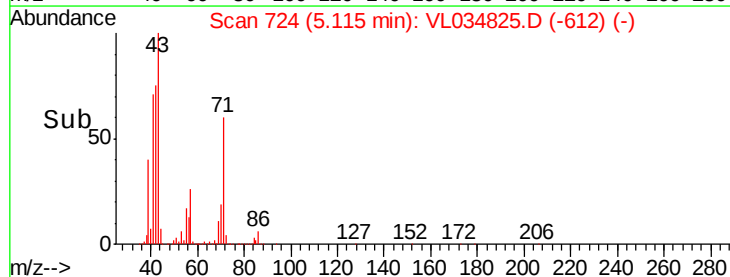
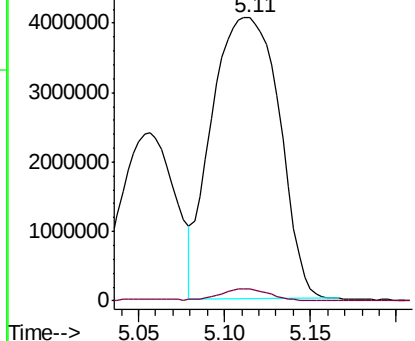


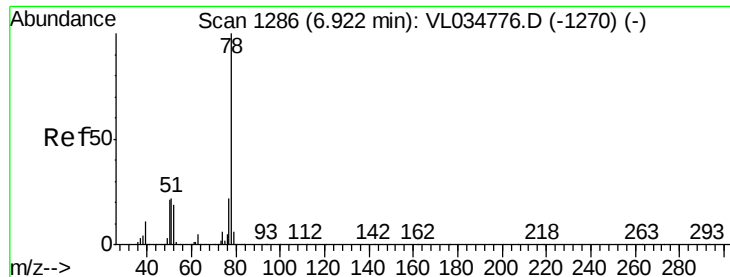
#34
 2-Butanone
 Concen: 86.598 ppbv
 RT: 5.11 min Scan# 724
 Delta R.T. -0.14 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

Tgt Ion: 43 Resp:11105265
 Ion Ratio Lower Upper
 43 100
 72 3.2 17.5 26.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 19.631 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

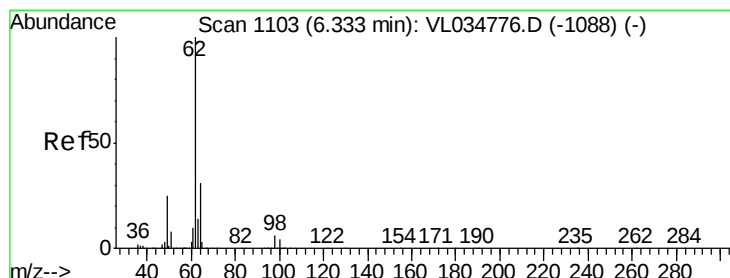
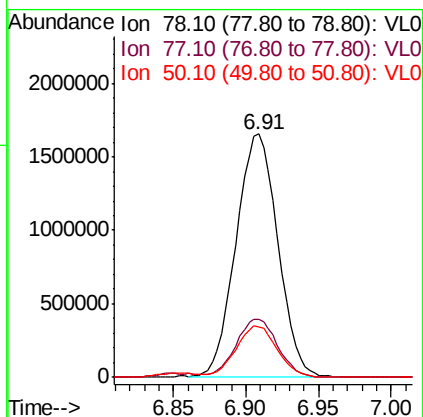
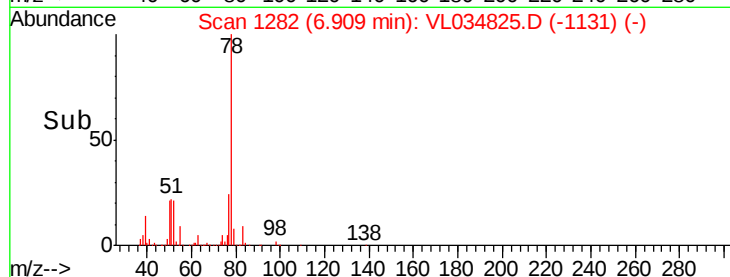
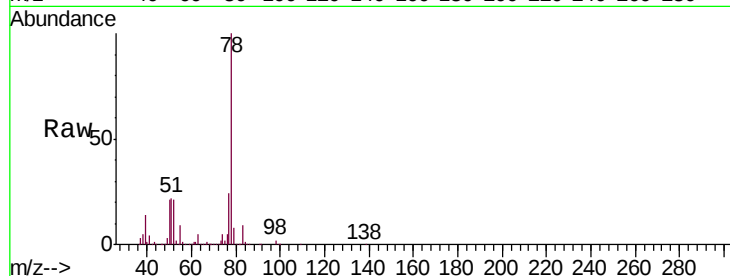
Tgt Ion: 78 Resp: 3306587

Ion Ratio Lower Upper

78 100

77 24.0 18.0 27.0

50 20.5 16.9 25.3



#37

1,2-Dichloroethane

Concen: 0.115 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL034825.D

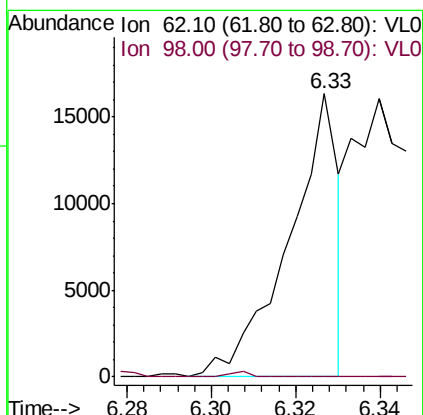
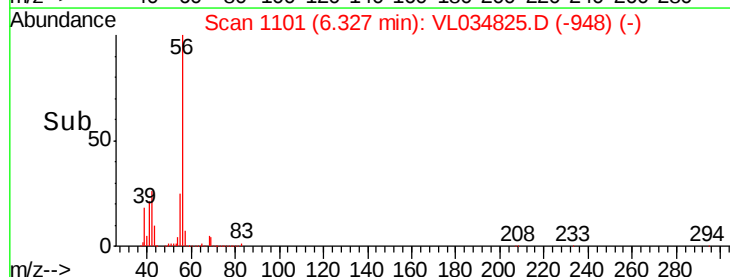
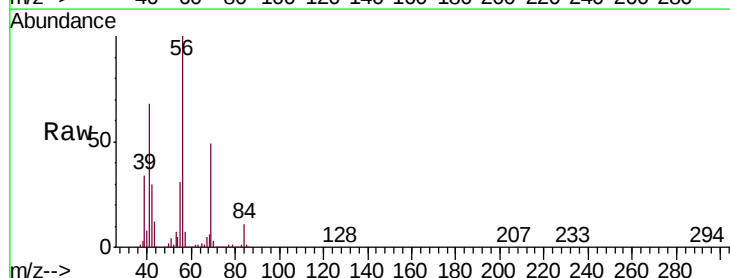
Acq: 6 Mar 2020 21:51

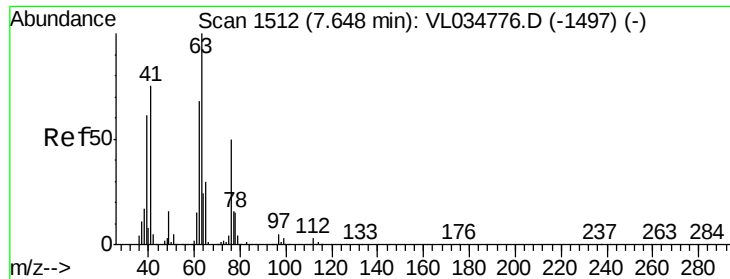
Tgt Ion: 62 Resp: 13250

Ion Ratio Lower Upper

62 100

98 0.0 4.4 6.6#





#39

1,2-Dichloropropane

Concen: 0.110 ppbv

RT: 7.89 min Scan# 1587

Delta R.T. 0.24 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

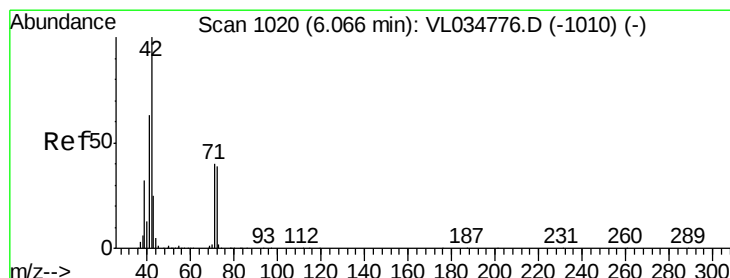
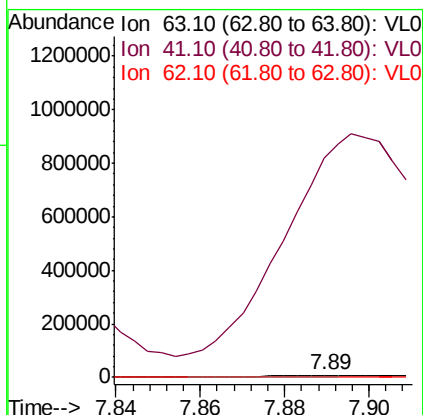
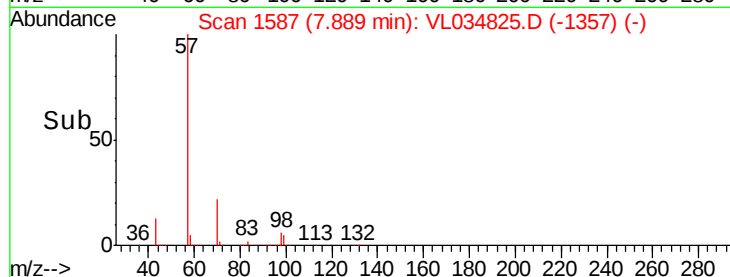
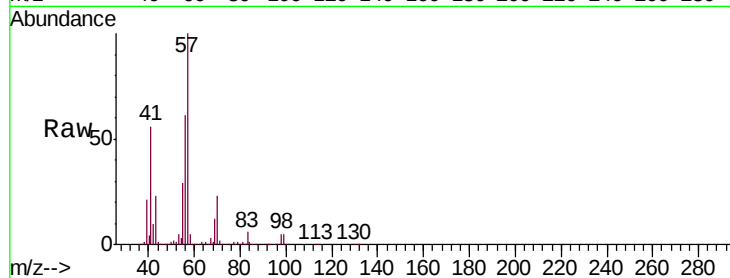
Tgt Ion: 63 Resp: 7468

Ion Ratio Lower Upper

63 100

41 10079.9 60.3 90.5#

62 29.7 54.5 81.7#



#41

Tetrahydrofuran

Concen: 2.928 ppbv

RT: 5.99 min Scan# 997

Delta R.T. -0.07 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

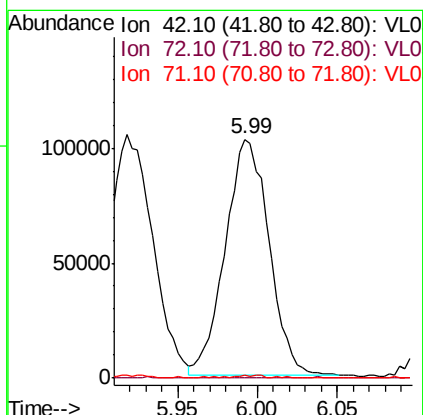
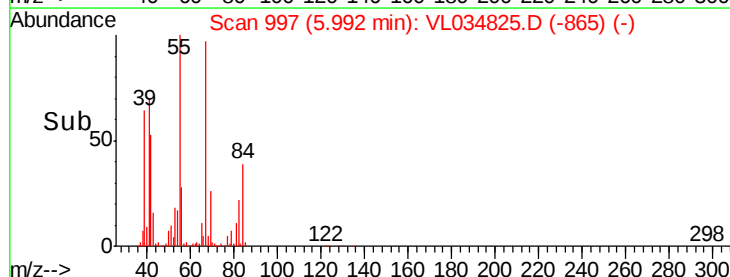
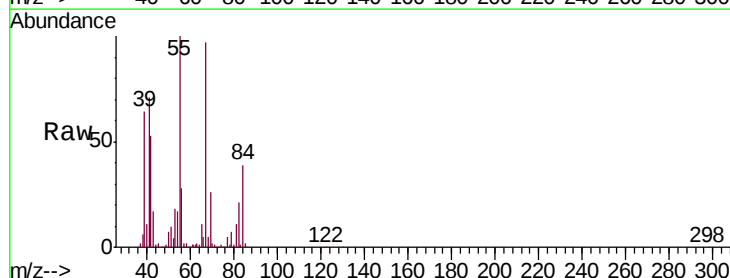
Tgt Ion: 42 Resp: 191585

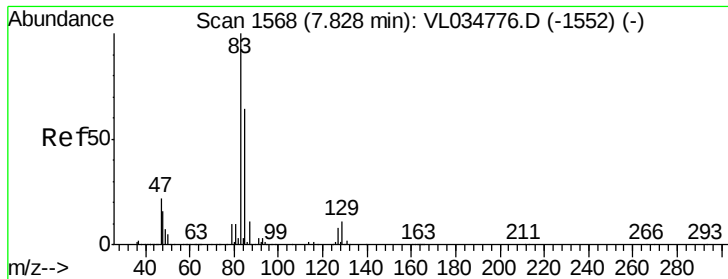
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 0.0 31.3 46.9#





#42

Bromodichloromethane

Concen: 3.796 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

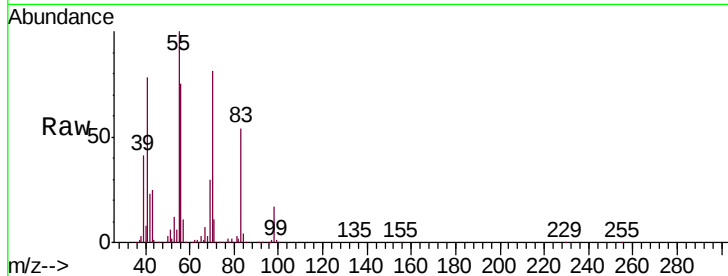
Tgt Ion: 83 Resp: 552540

Ion Ratio Lower Upper

83 100

85 0.3 50.8 76.2#

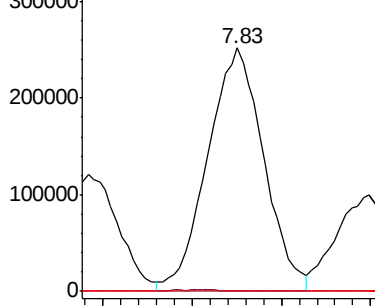
127 0.0 6.5 9.7#



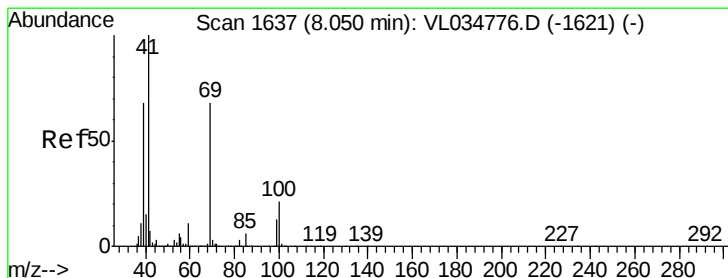
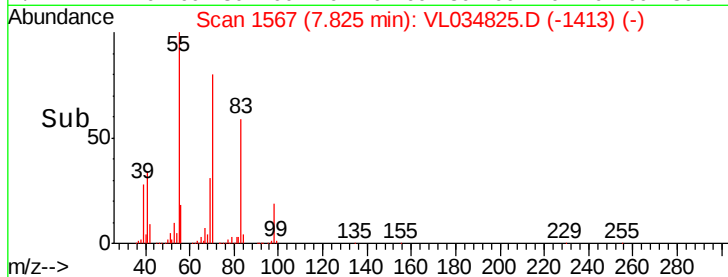
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



Time-->



#43

Methyl Methacrylate

Concen: 2.686 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. -0.04 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

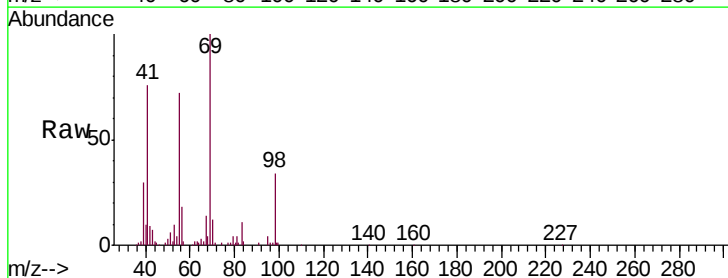
Tgt Ion: 69 Resp: 191697

Ion Ratio Lower Upper

69 100

41 82.7 121.6 182.4#

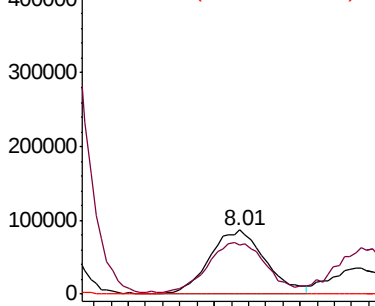
100 0.0 23.8 35.8#



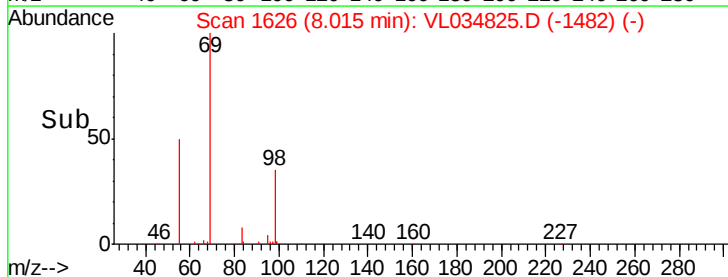
Abundance Ion 69.10 (68.80 to 69.80): VL0

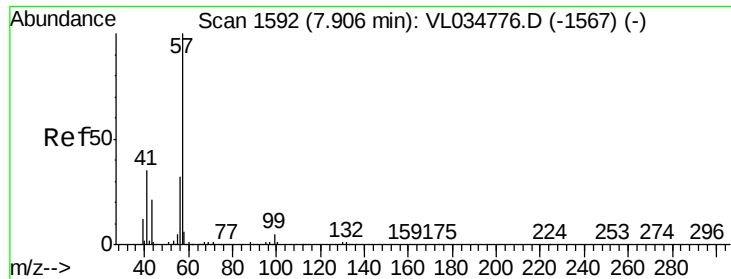
Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



Time-->

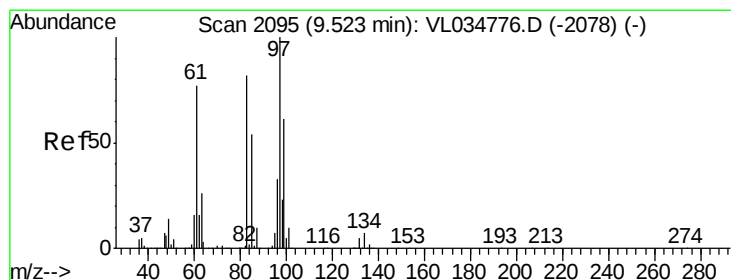
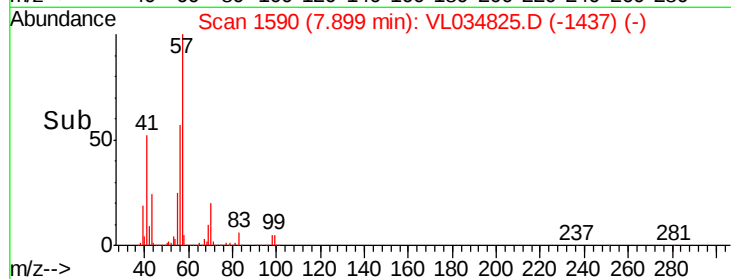
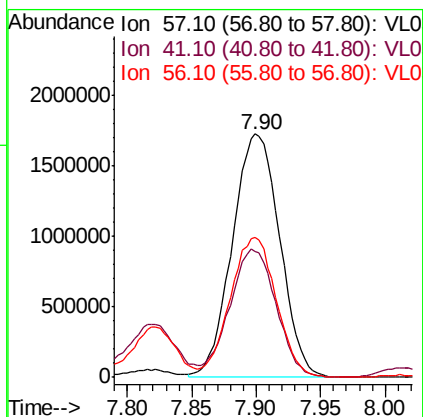
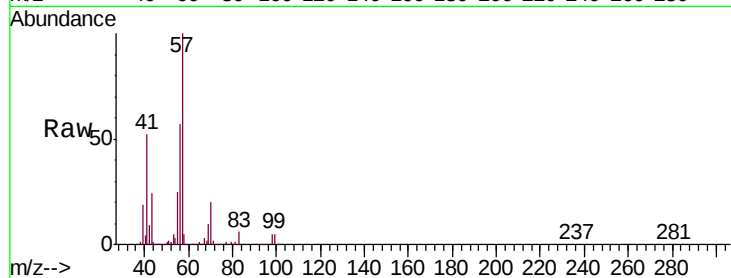




#44
 2,2,4-Trimethylpentane
 Concen: 14.981 ppbv
 RT: 7.90 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

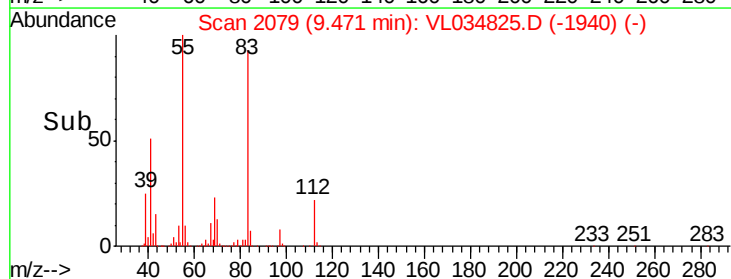
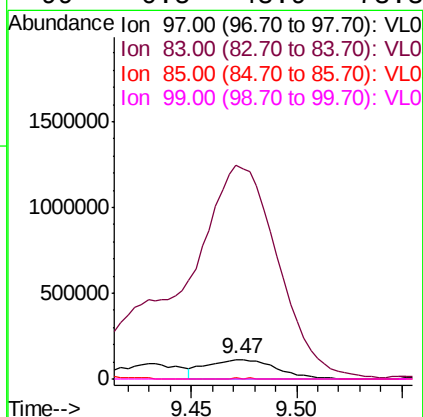
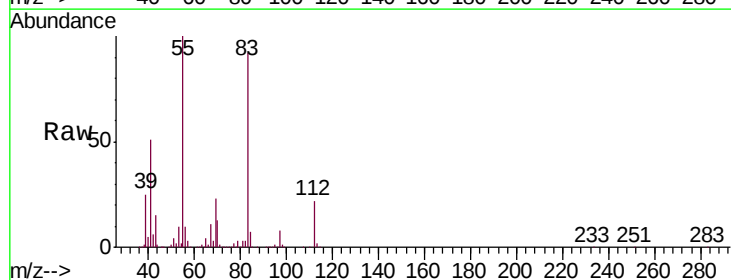
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4DL

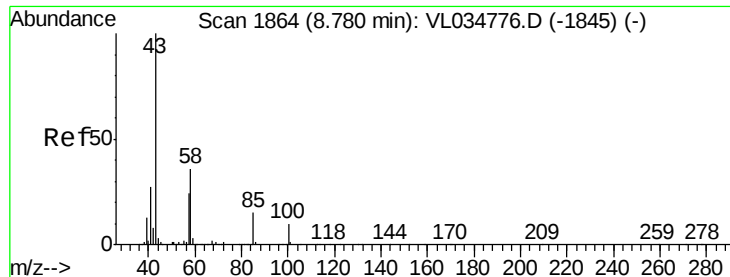
Tgt Ion: 57 Resp: 4409774
 Ion Ratio Lower Upper
 57 100
 41 52.0 27.4 41.0#
 56 56.0 25.0 37.6#



#47
 1,1,2-Trichloroethane
 Concen: 3.535 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. -0.05 min
 Lab File: VL034825.D
 Acq: 6 Mar 2020 21:51

Tgt Ion: 97 Resp: 253675
 Ion Ratio Lower Upper
 97 100
 83 1080.7 65.2 97.8#
 85 2.7 43.6 65.4#
 99 0.5 48.9 73.3#





#50

4-Methyl-2-Pentanone

Concen: 0.153 ppbv

RT: 8.80 min Scan# 1870

Delta R.T. 0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

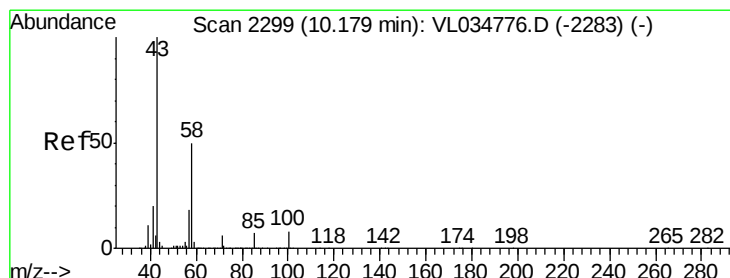
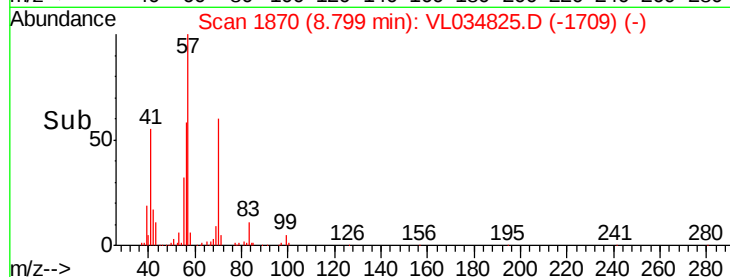
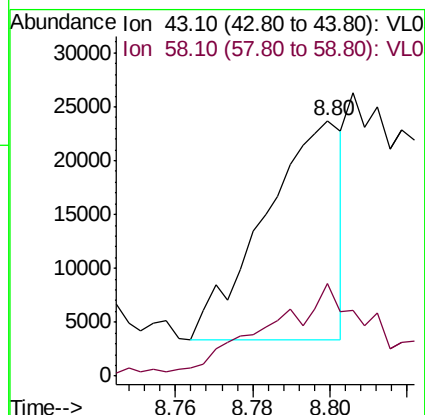
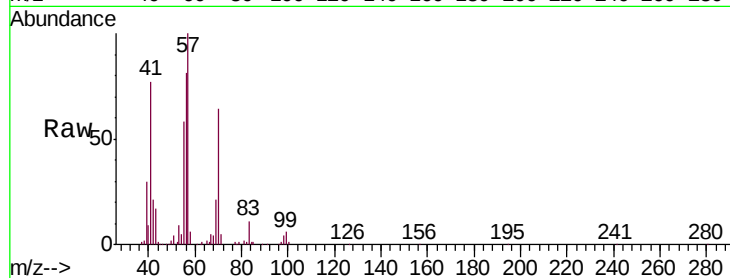
SS-4-4DL

Tgt Ion: 43 Resp: 28164

Ion Ratio Lower Upper

43 100

58 0.0 28.7 43.1#



#51

2-Hexanone

Concen: 2.674 ppbv

RT: 10.14 min Scan# 2288

Delta R.T. -0.04 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

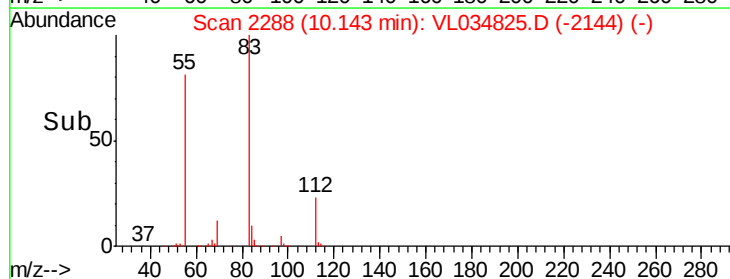
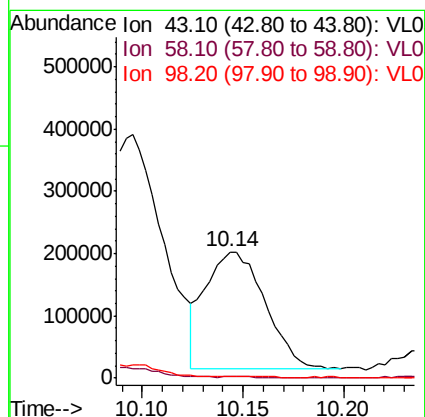
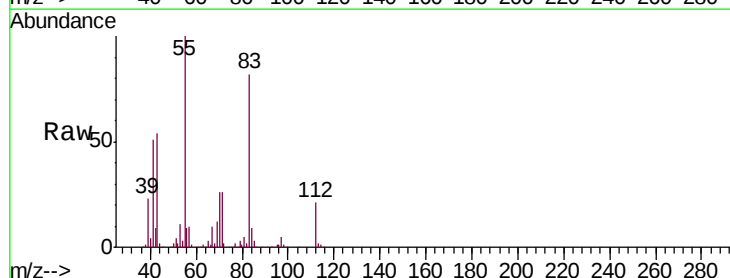
Tgt Ion: 43 Resp: 385450

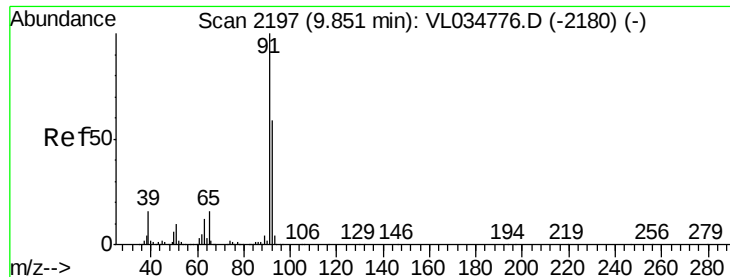
Ion Ratio Lower Upper

43 100

58 0.0 38.6 58.0#

98 0.0 0.2 0.4#





#53

Toluene

Concen: 5.571 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

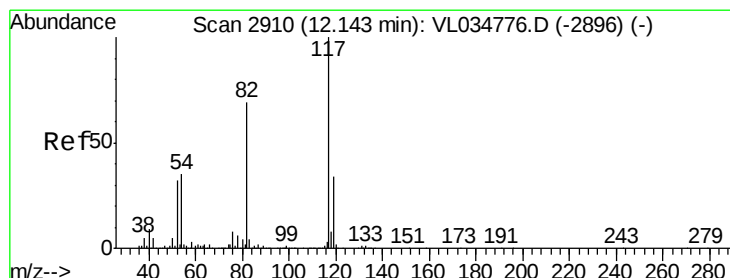
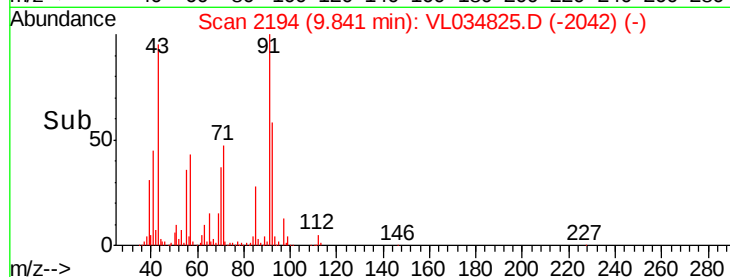
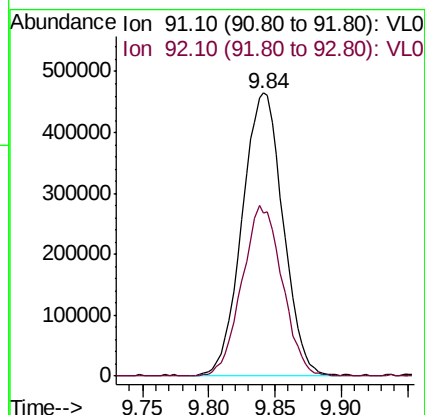
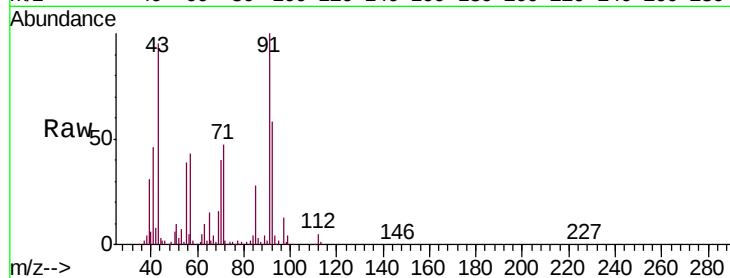
SS-4-4DL

Tgt Ion: 91 Resp: 993110

Ion Ratio Lower Upper

91 100

92 59.6 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

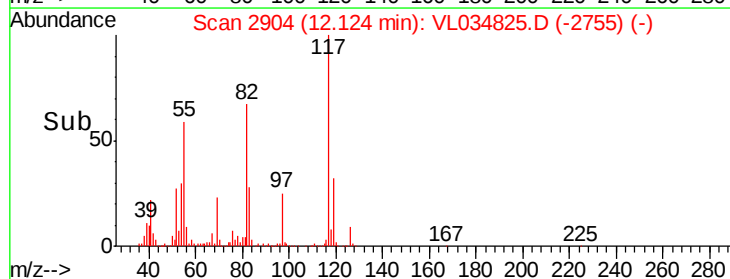
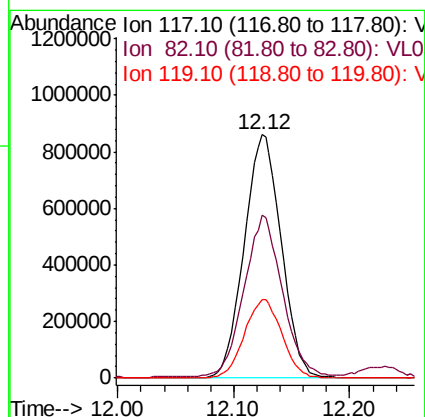
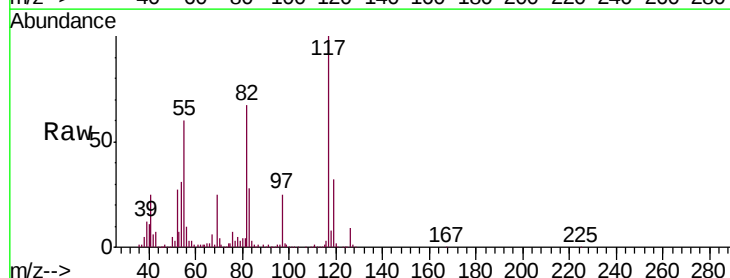
Tgt Ion: 117 Resp: 1910802

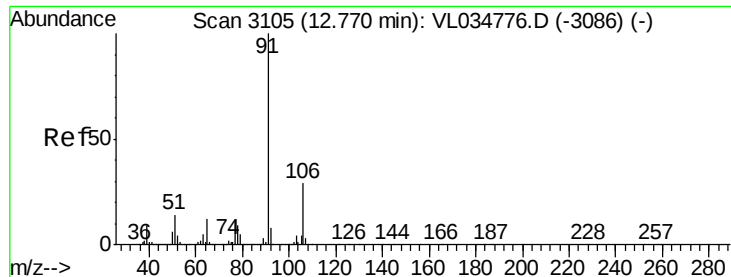
Ion Ratio Lower Upper

117 100

82 70.4 53.9 80.9

119 32.8 25.0 37.4





#58

Ethyl Benzene

Concen: 0.293 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. -0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

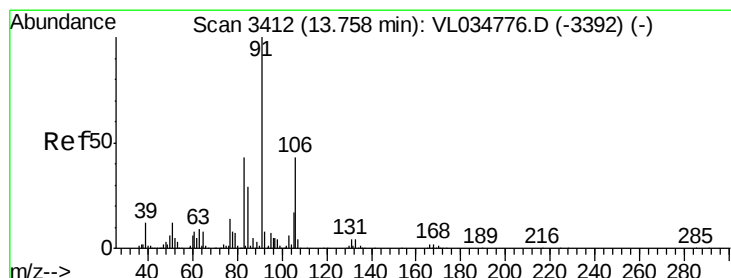
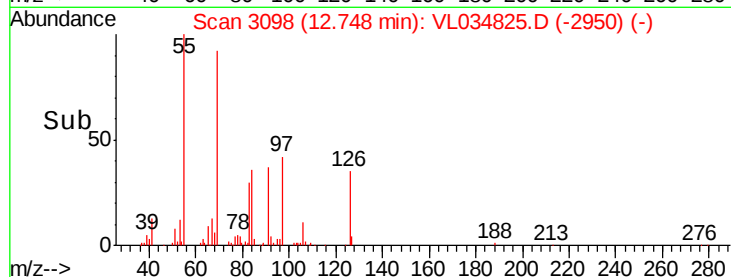
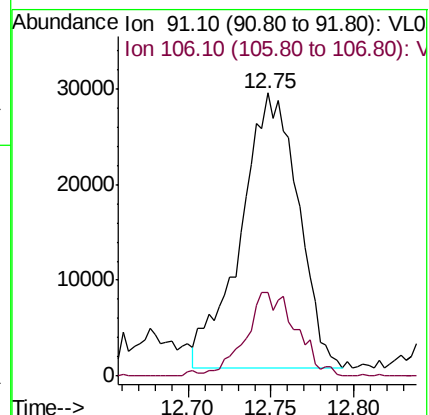
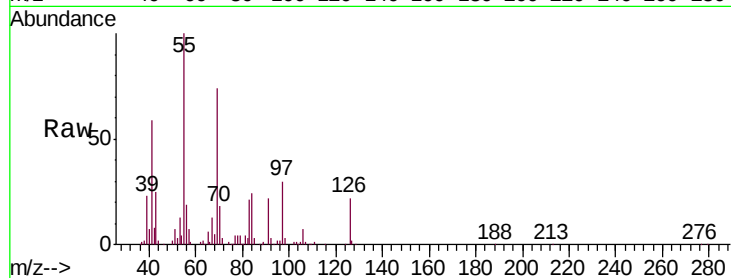
SS-4-4DL

Tgt Ion: 91 Resp: 68930

Ion Ratio Lower Upper

91 100

106 30.6 22.8 34.2



#60

o-Xylene

Concen: 0.105 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. -0.03 min

Lab File: VL034825.D

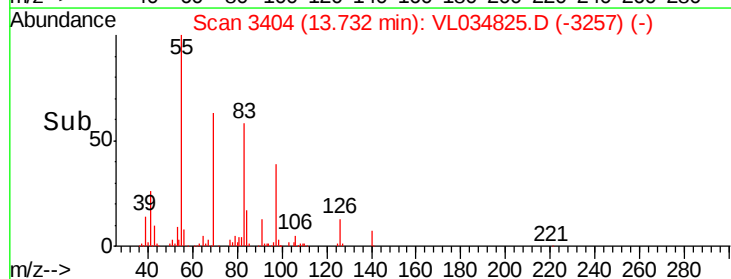
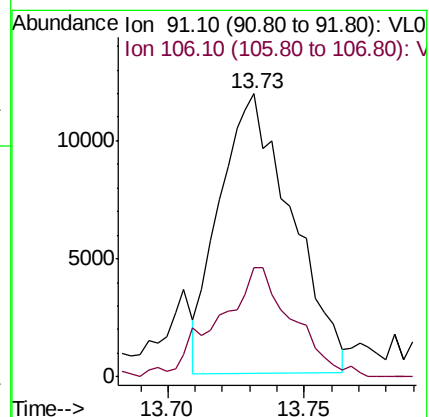
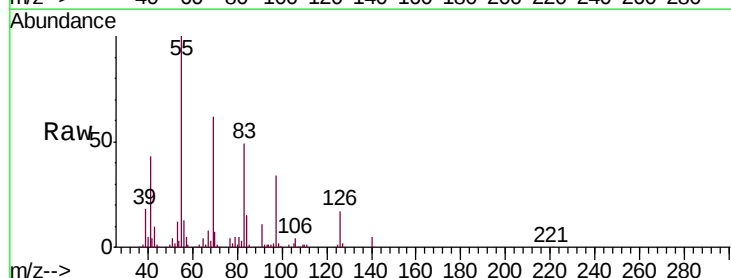
Acq: 6 Mar 2020 21:51

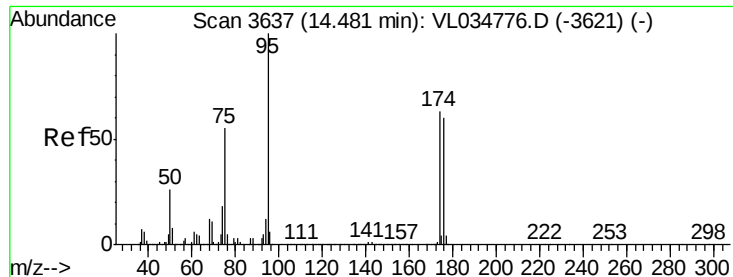
Tgt Ion: 91 Resp: 21743

Ion Ratio Lower Upper

91 100

106 40.9 21.7 65.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.751 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. -0.02 min

Lab File: VL034825.D

Acq: 6 Mar 2020 21:51

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4DL

Tgt Ion: 95 Resp: 1553708

Ion Ratio Lower Upper

95 100

174 71.7 50.6 76.0

175 5.5 3.8 5.6

