

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034773.D
 Acq On : 3 Mar 2020 21:08
 Operator : SY/AP
 Sample : L1698-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 04 05:48:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1174066	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2417351	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2427727	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	2070571	10.40	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

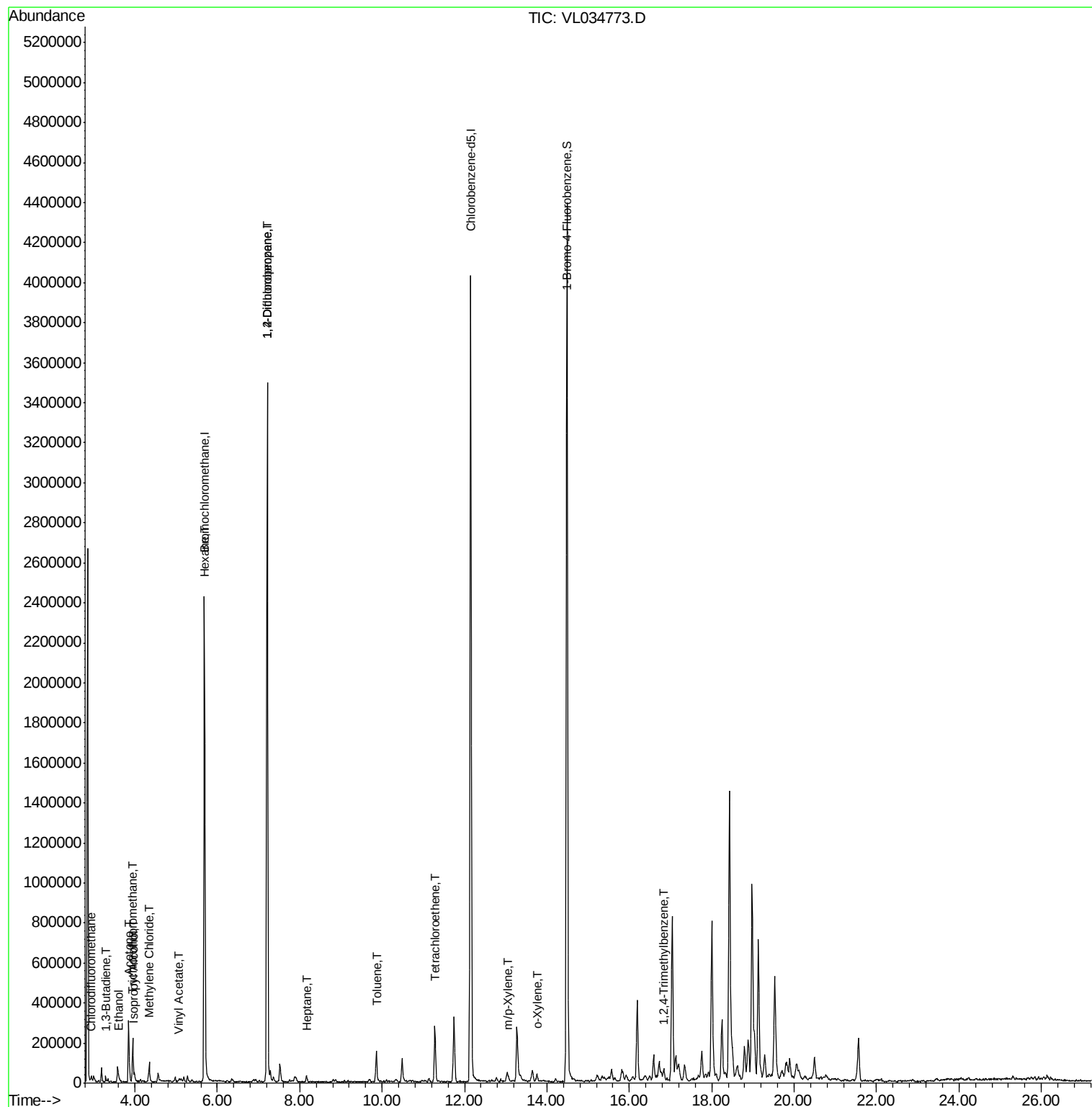
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.93	51	17818	0.141	ppbv #	73
10) Heptane	8.17	43	6592	0.048	ppbv #	33
11) Trichlorofluoromethane	3.94	101	130408	0.804	ppbv	97
13) Ethanol	3.61	45	4586	0.274	ppbv #	1
15) Acetone	3.85	43	305511	2.284	ppbv	95
16) 1,3-Butadiene	3.29	39	3054	0.049	ppbv #	7
19) Isopropyl Alcohol	3.97	45	10468	0.131	ppbv #	94
20) Methylene Chloride	4.35	84	31492	0.633	ppbv	82
23) Vinyl Acetate	5.07	43	4694	0.026	ppbv #	77
26) Hexane	5.70	57	10985	0.101	ppbv #	1
39) 1,2-Dichloropropane	7.21	63	681623	8.206	ppbv #	24
52) Tetrachloroethene	11.28	164	62935	0.822	ppbv	87
53) Toluene	9.86	91	45187	0.203	ppbv #	1
59) m/p-Xylene	13.06	91	6770	0.026	ppbv #	32
60) o-Xylene	13.76	91	8403	0.033	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.85	105	8199	0.027	ppbv #	63

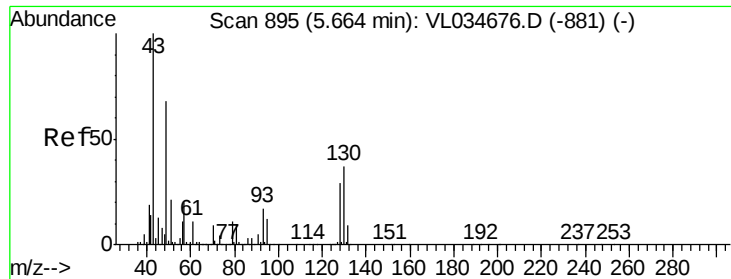
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

Instrument :
MSVOA_L
ClientSampleId :

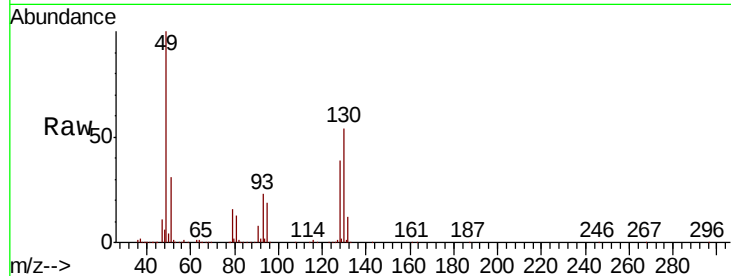
Tot Ion: 49 Resp: 1174066

Ion Ratio Lower Upper

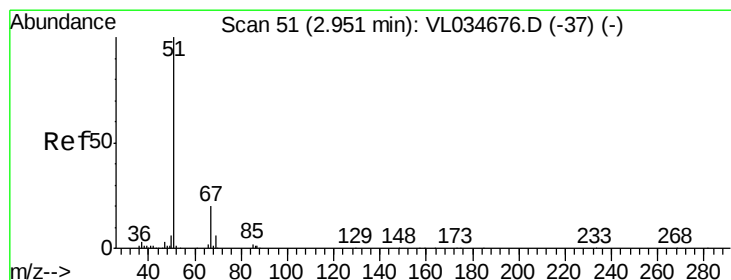
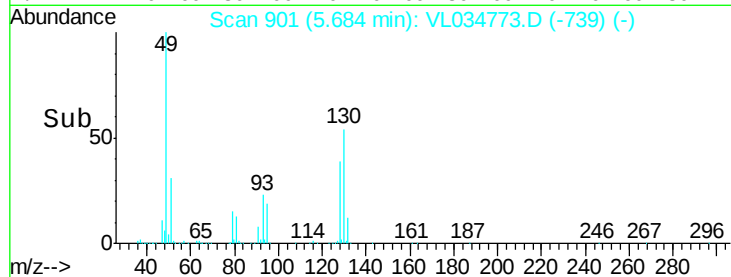
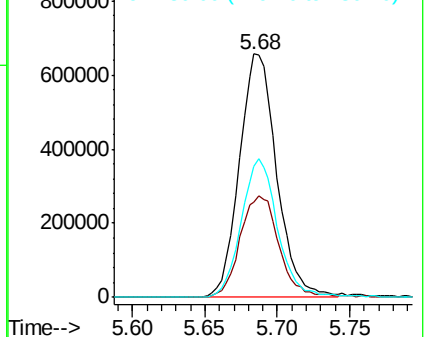
49 100

128 43.9 21.6 65.0

130 55.8 27.7 83.1



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



#3

Chlorodifluoromethane

Concen: 0.141 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL034773.D

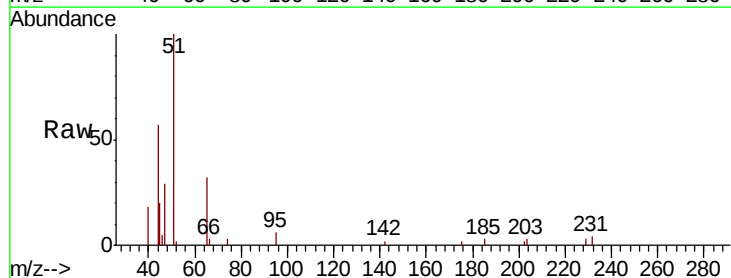
Acq: 3 Mar 2020 21:08

Tgt Ion: 51 Resp: 17818

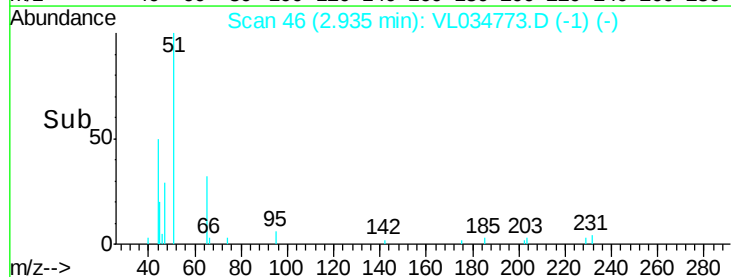
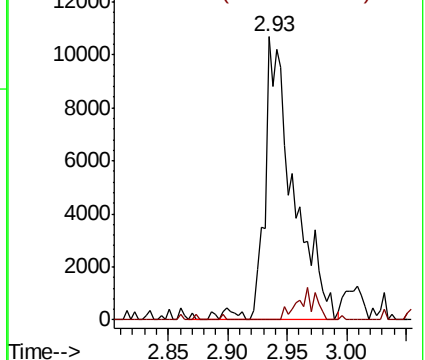
Ion Ratio Lower Upper

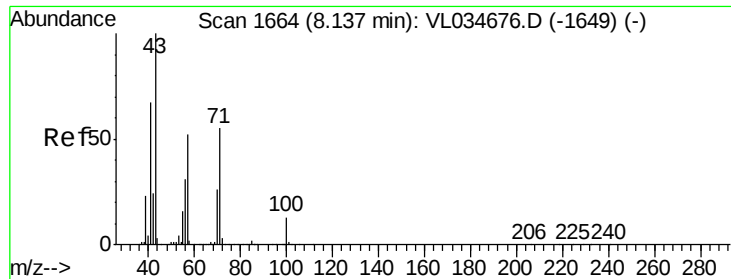
51 100

67 7.0 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0

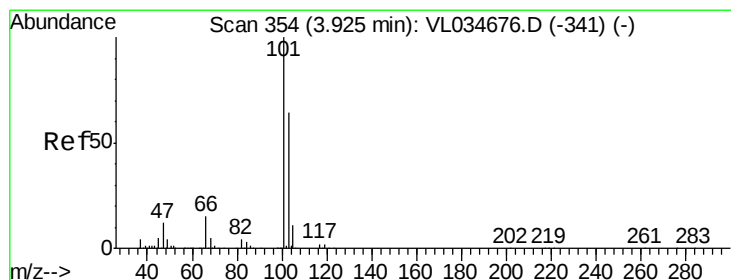
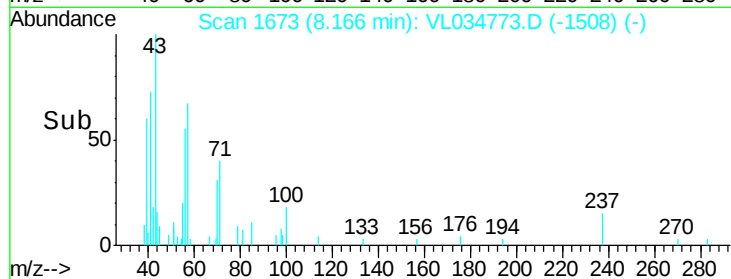
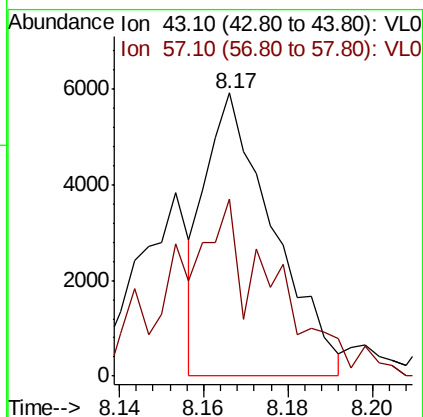
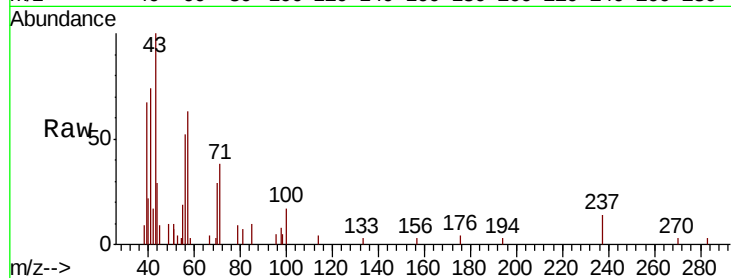




#10
 Heptane
 Concen: 0.048 ppbv
 RT: 8.17 min Scan# 1673
 Delta R.T. 0.03 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

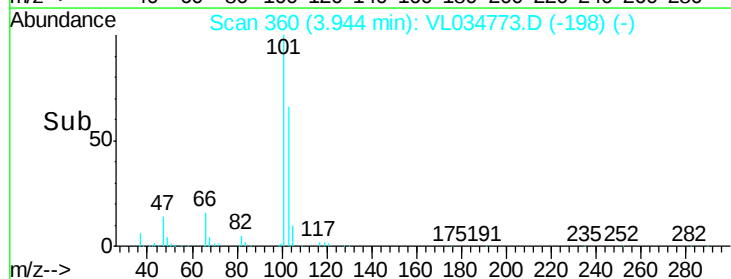
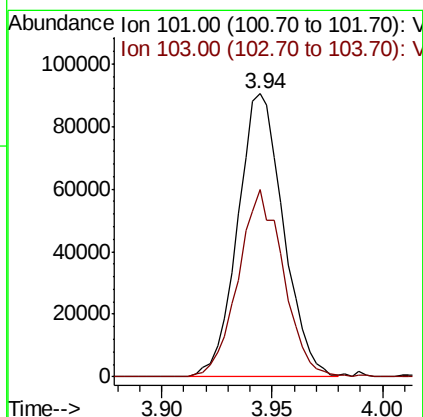
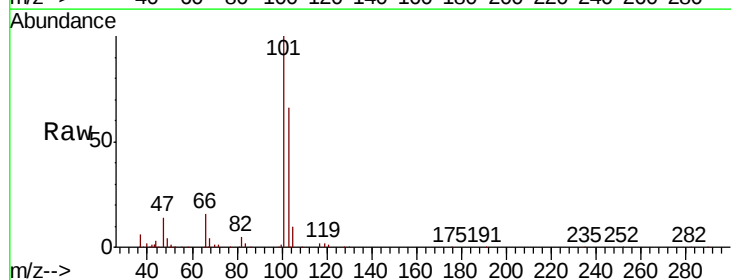
Instrument :
 MSVOA_L
 ClientSampleId :

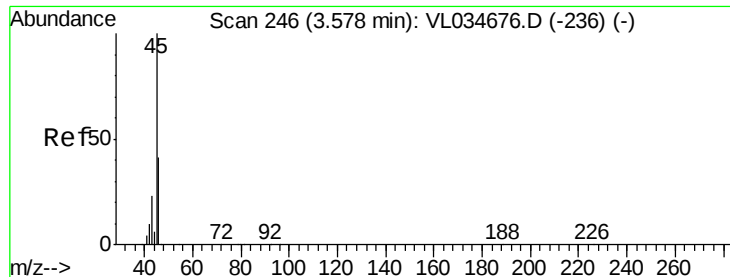
Tot Ion: 43 Resp: 6592
 Ion Ratio Lower Upper
 43 100
 57 98.1 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.804 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

Tgt Ion: 101 Resp: 130408
 Ion Ratio Lower Upper
 101 100
 103 66.2 51.2 76.8

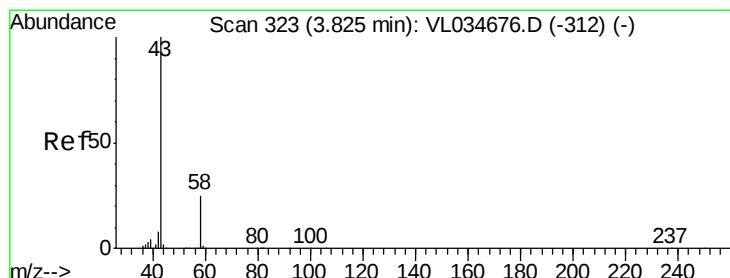
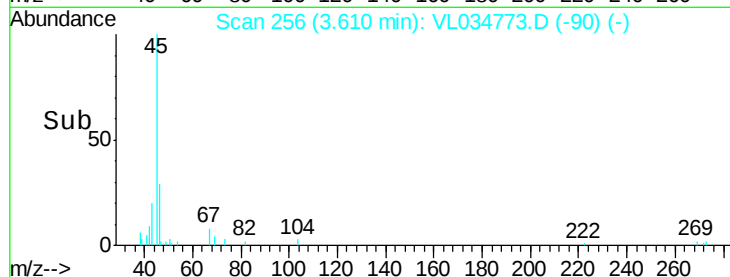
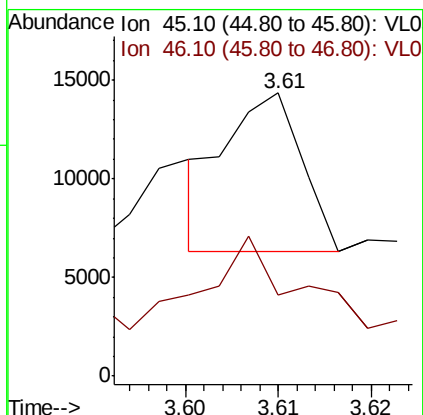
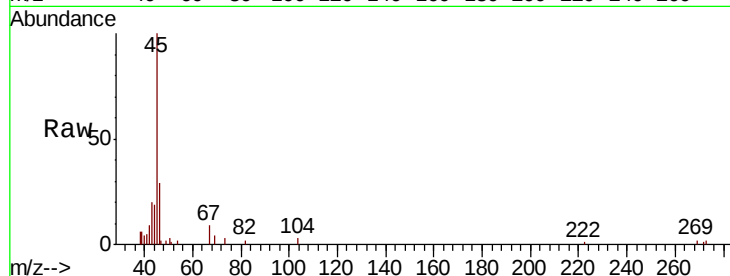




#13
Ethanol
Concen: 0.274 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.03 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

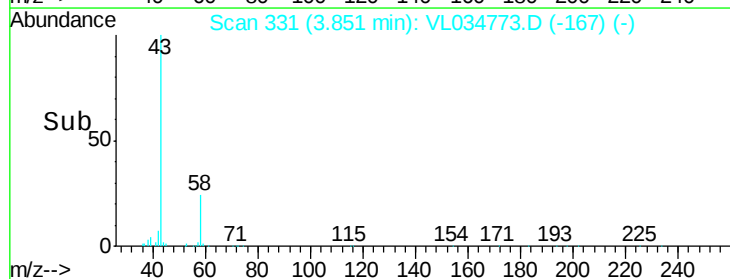
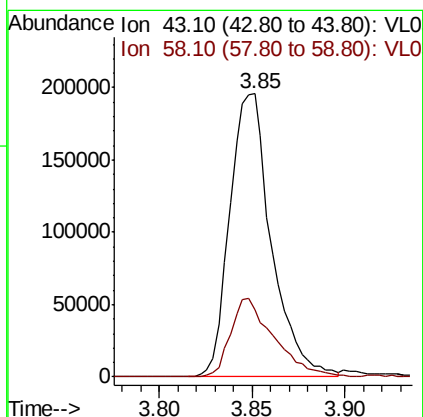
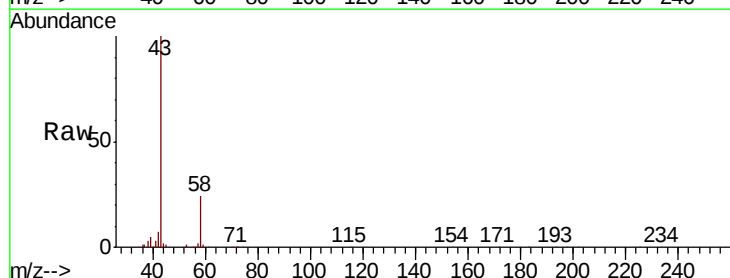
Instrument :
MSVOA_L
ClientSampleId :

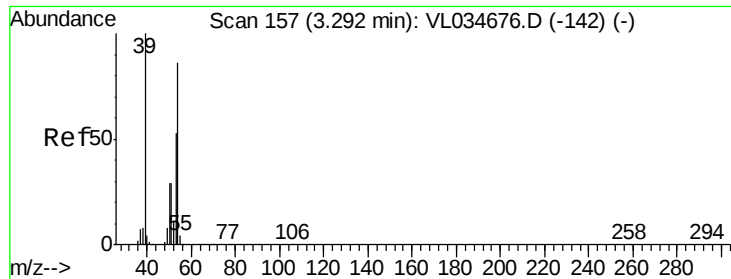
Tot Ion: 45 Resp: 4586
Ion Ratio Lower Upper
45 100
46 250.4 15.4 61.4#



#15
Acetone
Concen: 2.284 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.03 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

Tgt Ion: 43 Resp: 305511
Ion Ratio Lower Upper
43 100
58 29.5 21.4 32.0

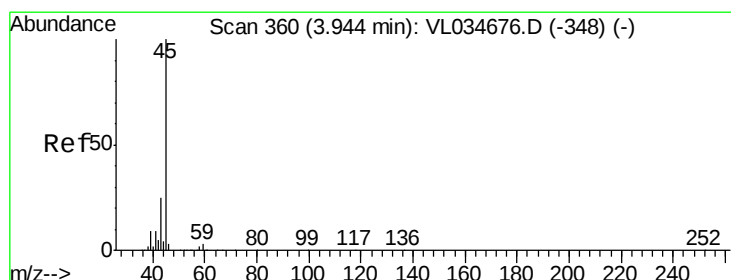
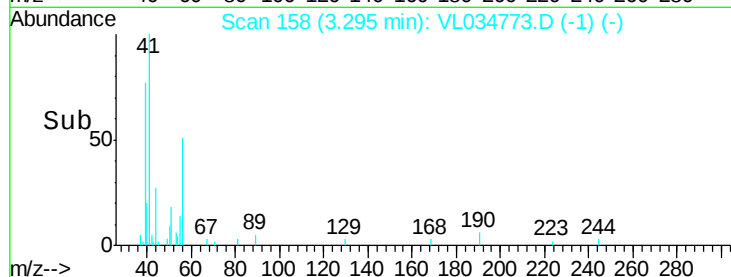
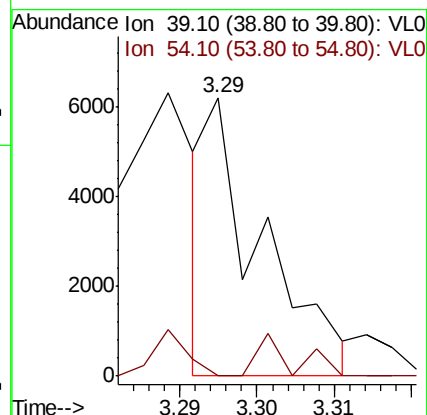
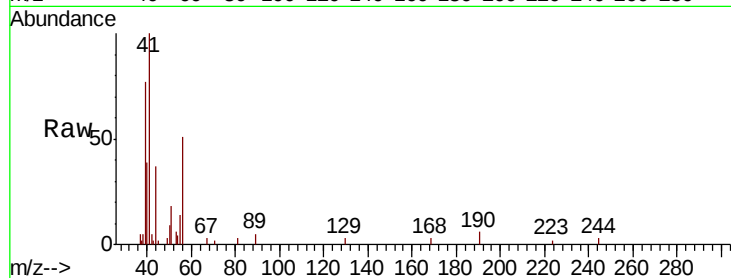




#16
 1,3-Butadiene
 Concen: 0.049 ppbv
 RT: 3.29 min Scan# 158
 Delta R.T. 0.00 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

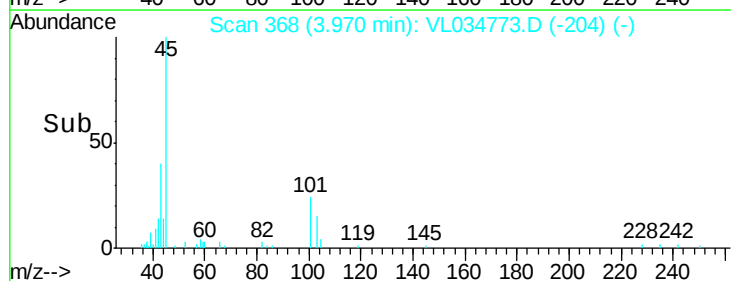
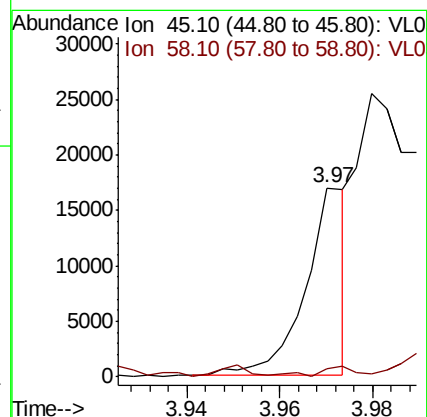
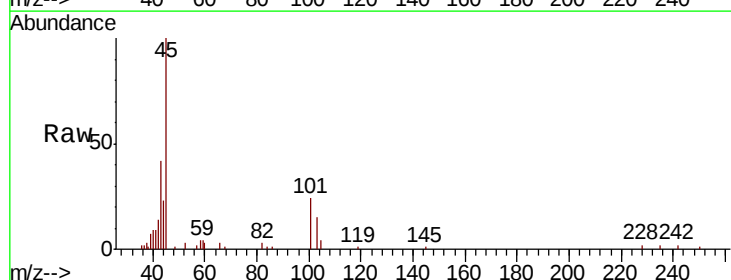
Instrument :
 MSVOA_L
 ClientSampleId :

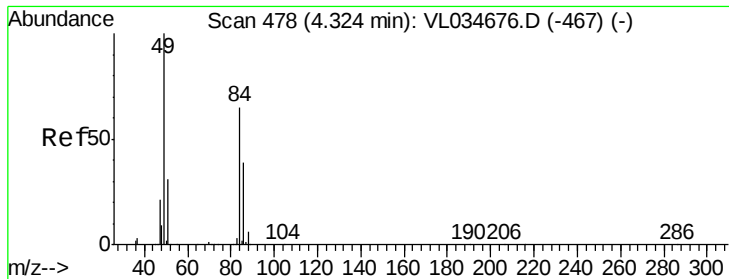
Tot Ion: 39 Resp: 3054
 Ion Ratio Lower Upper
 39 100
 54 0.0 67.0 100.6#



#19
 Isopropyl Alcohol
 Concen: 0.131 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.03 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

Tgt Ion: 45 Resp: 10468
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.6#

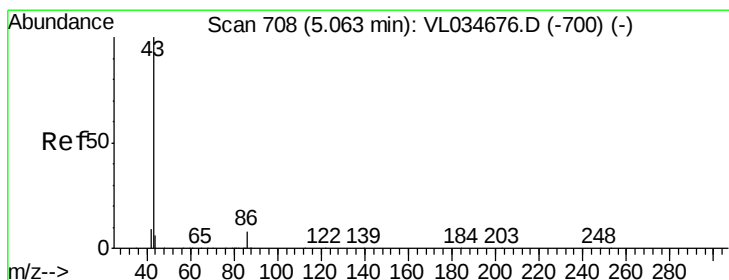
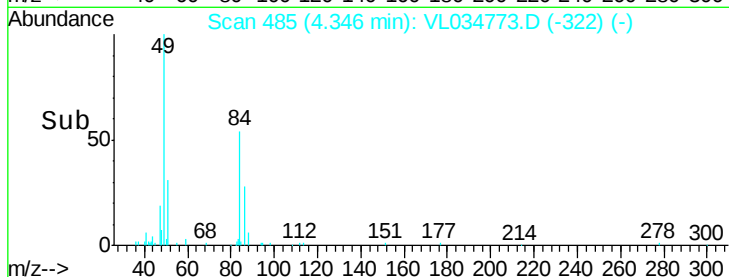
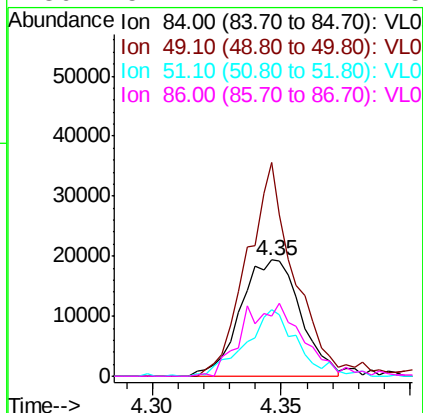
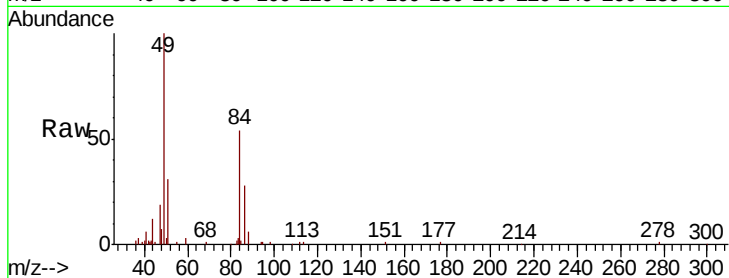




#20
Methvlene Chloride
Concen: 0.633 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.02 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

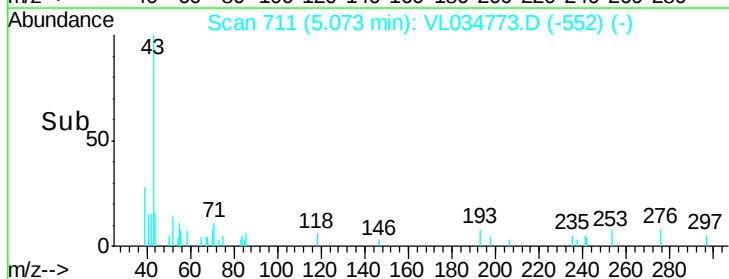
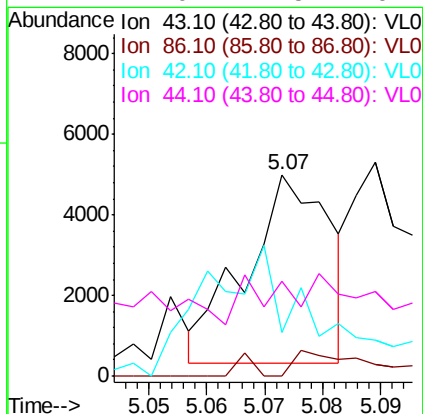
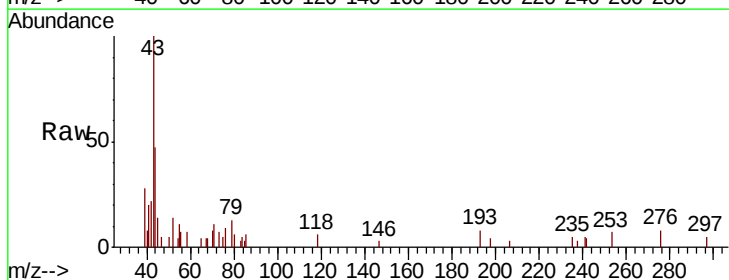
Instrument :
MSVOA_L
ClientSampleId :

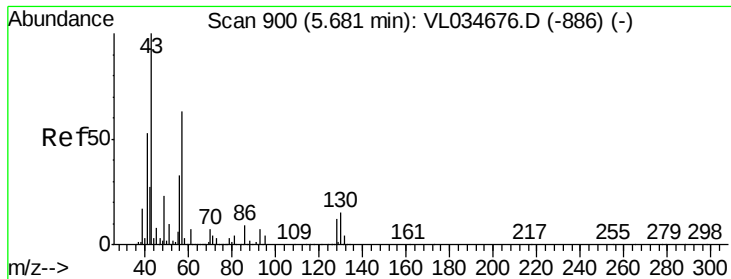
Tot Ion: 84 Resp: 31492
Ion Ratio Lower Upper
84 100
49 183.6 122.8 184.2
51 57.0 38.6 58.0
86 52.2 47.7 71.5



#23
Vinyl Acetate
Concen: 0.026 ppbv
RT: 5.07 min Scan# 711
Delta R.T. 0.01 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

Tgt Ion: 43 Resp: 4694
Ion Ratio Lower Upper
43 100
86 0.0 6.0 9.0#
42 0.0 8.0 12.0#
44 12.0 4.5 6.7#

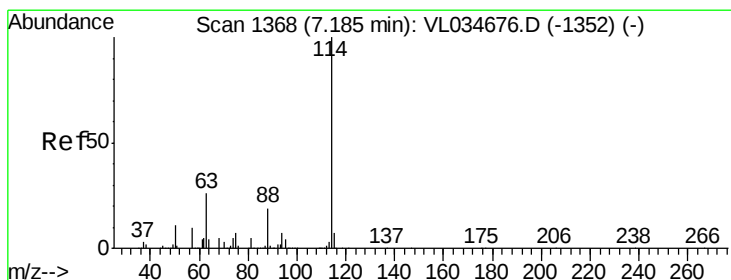
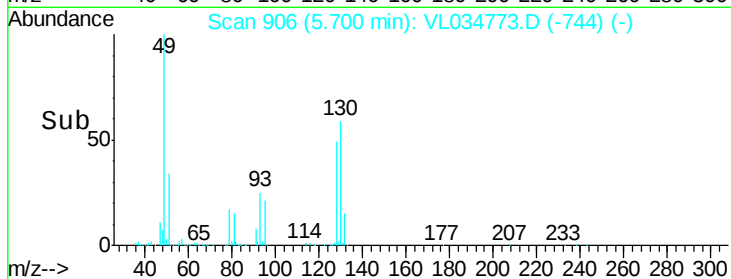
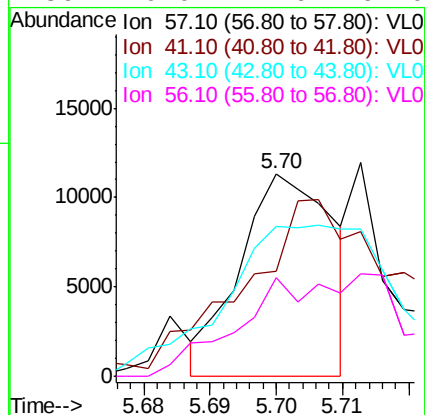
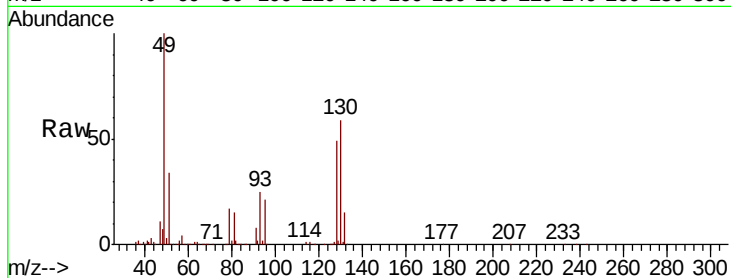




#26
Hexane
Concen: 0.101 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

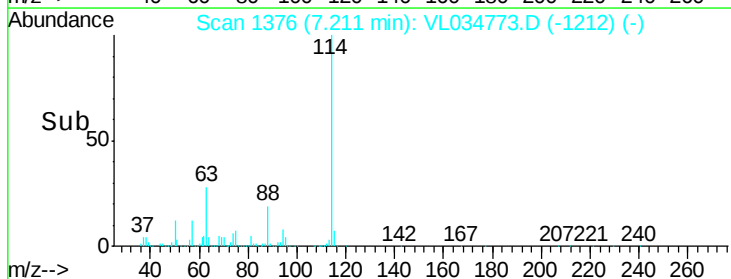
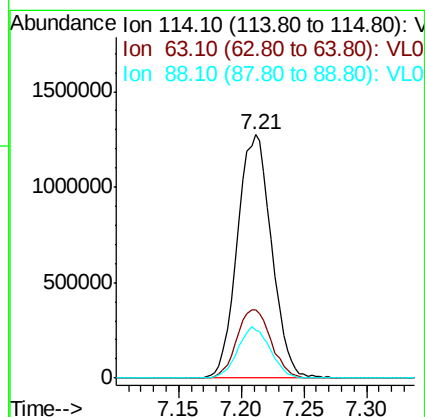
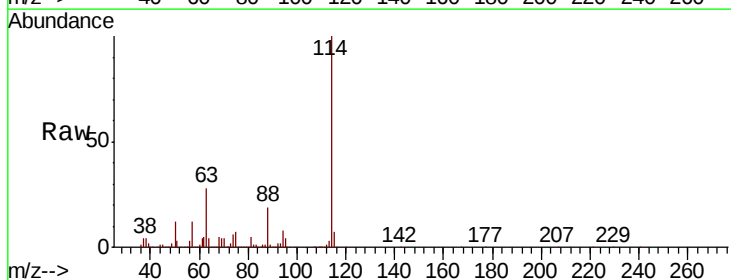
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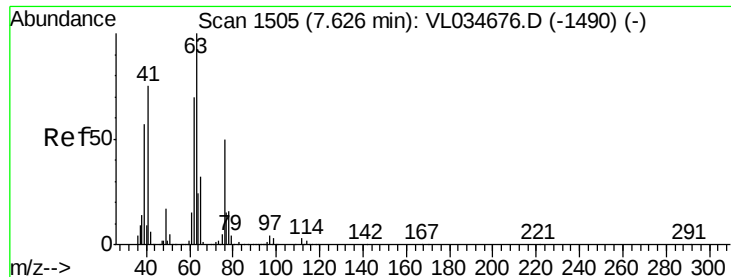
Tot Ion:	57	Resp:	10985
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.3	105.5#
43	0.0	177.0	265.4#
56	0.0	42.6	64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. 0.03 min
Lab File: VL034773.D
Acq: 3 Mar 2020 21:08

Tgt Ion:	114	Resp:	2417351
Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.9	34.3
88	20.0	15.8	23.6





#39

1,2-Dichloropropane

Concen: 8.206 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.42 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

Instrument :

MSVOA_L

ClientSampleId :

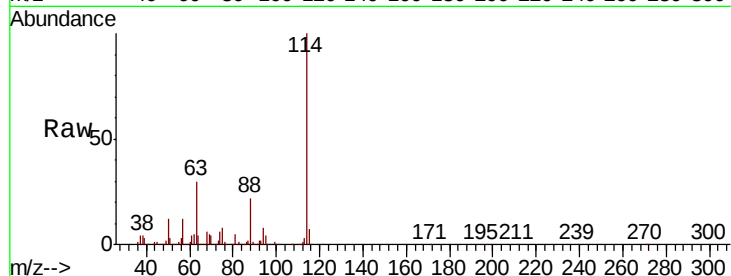
Tot Ion: 63 Resp: 681623

Ion Ratio Lower Upper

63 100

41 0.1 60.2 90.4#

62 18.2 56.3 84.5#

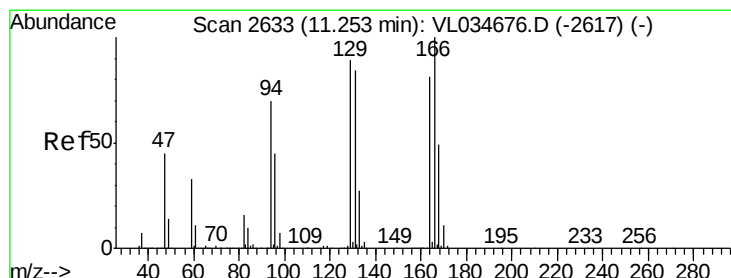
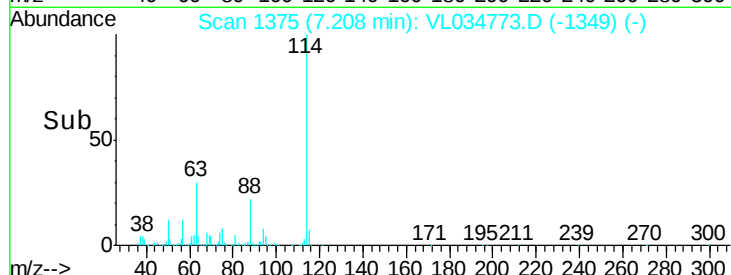
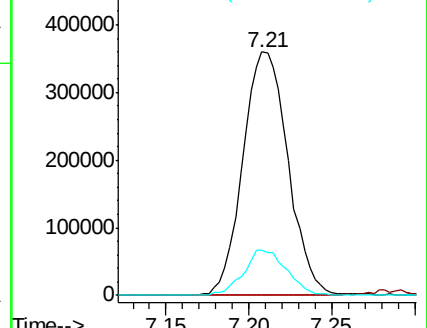


Abundance

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



#52

Tetrachloroethene

Concen: 0.822 ppbv

RT: 11.28 min Scan# 2642

Delta R.T. 0.03 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

Tgt Ion: 164 Resp: 62935

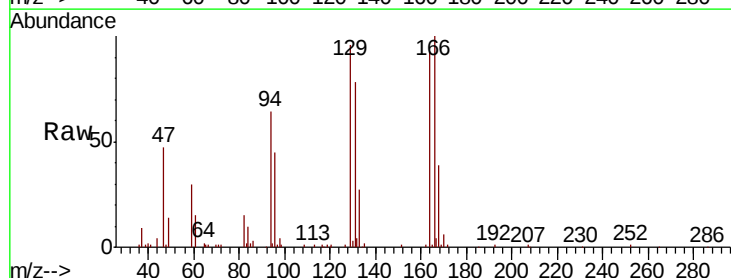
Ion Ratio Lower Upper

164 100

166 107.7 99.2 148.8

129 103.6 88.0 132.0

131 83.9 83.7 125.5



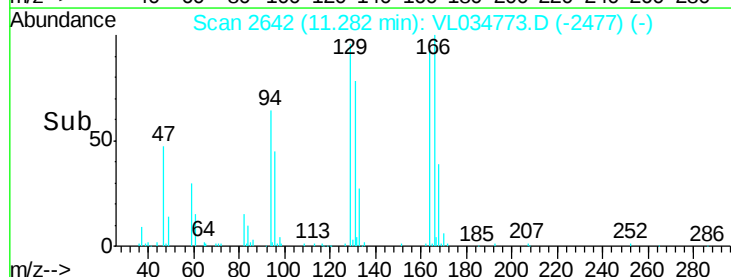
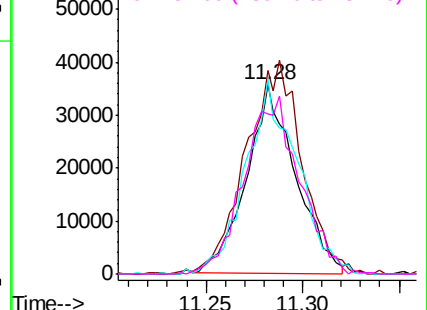
Abundance

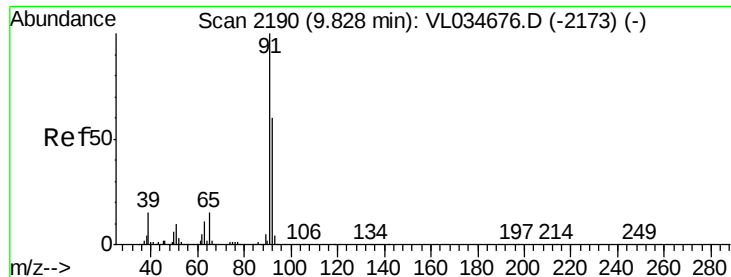
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.203 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.04 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

Instrument :

MSVOA_L

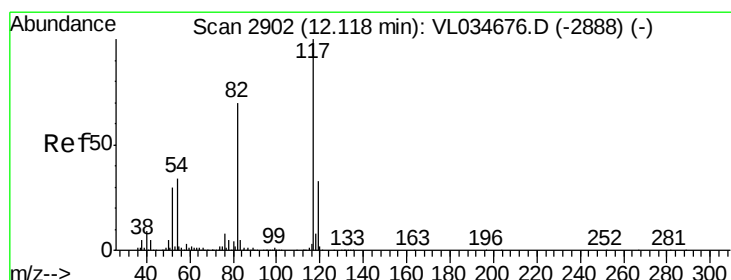
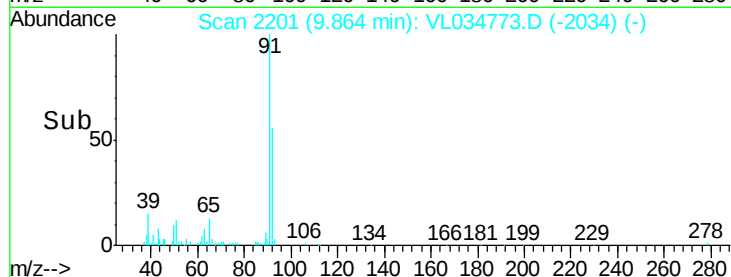
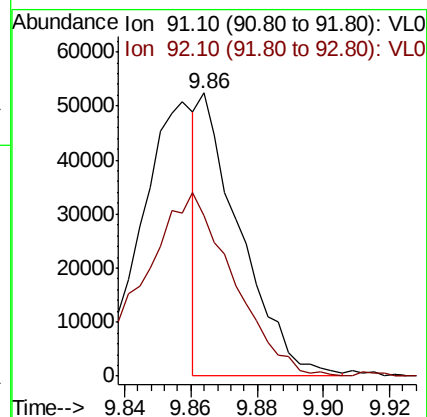
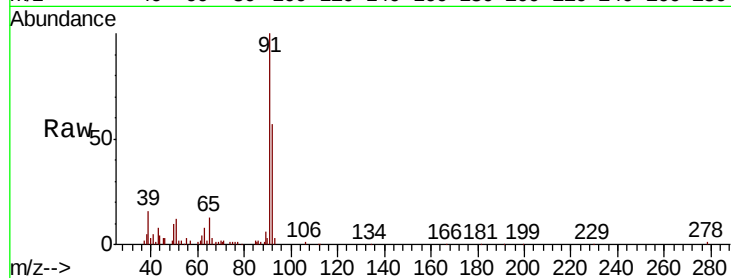
ClientSampled :

Tot Ion: 91 Resp: 45187

Ion Ratio Lower Upper

91 100

92 141.4 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. 0.03 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

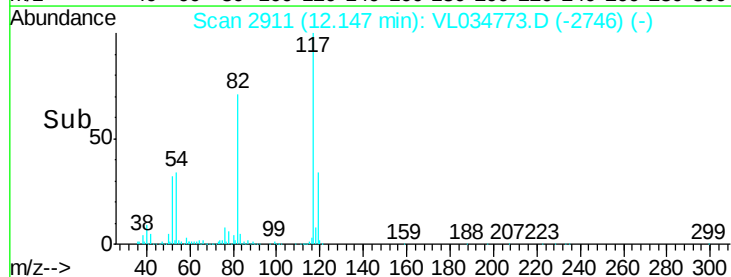
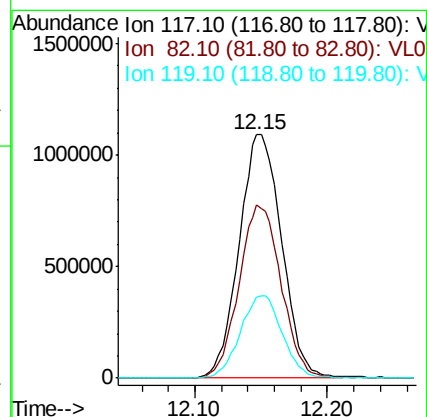
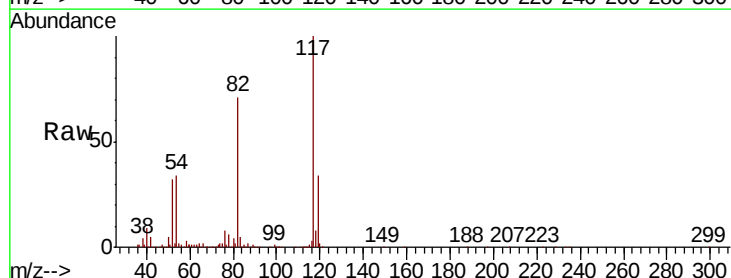
Tgt Ion: 117 Resp: 2427727

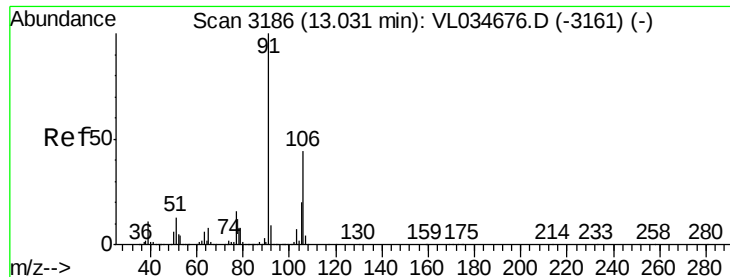
Ion Ratio Lower Upper

117 100

82 71.0 54.1 81.1

119 33.7 27.6 41.4





#59

m/p-Xylene

Concen: 0.026 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. 0.03 min

Lab File: VL034773.D

Acq: 3 Mar 2020 21:08

Instrument :

MSVOA_L

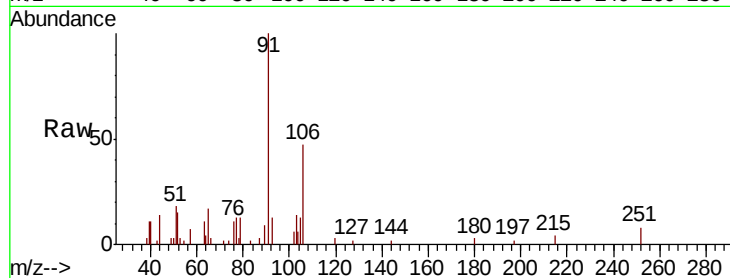
ClientSampleId :

Tot Ion: 91 Resp: 6770

Ion Ratio Lower Upper

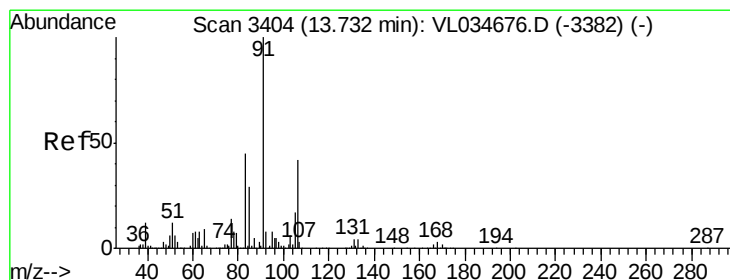
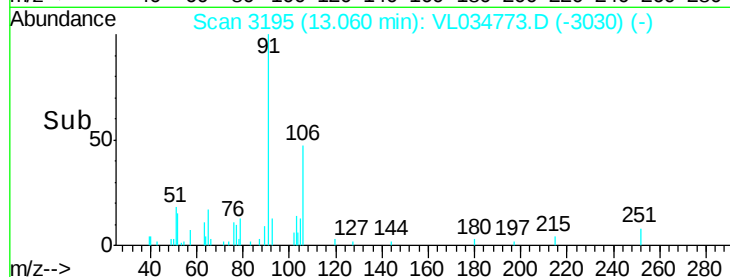
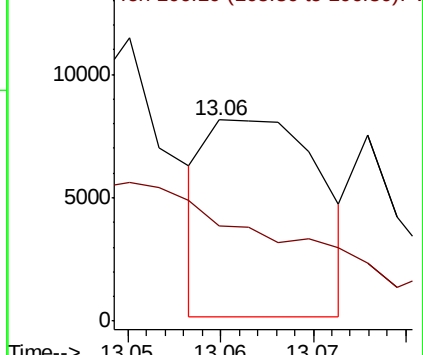
91 100

106 0.0 35.6 53.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.033 ppbv

RT: 13.76 min Scan# 3413

Delta R.T. 0.03 min

Lab File: VL034773.D

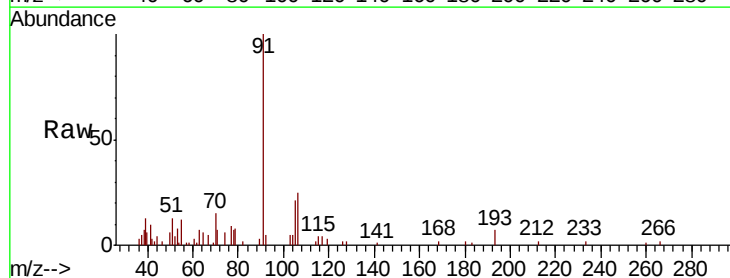
Acq: 3 Mar 2020 21:08

Tgt Ion: 91 Resp: 8403

Ion Ratio Lower Upper

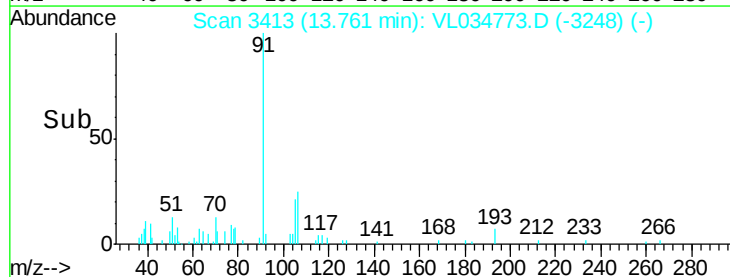
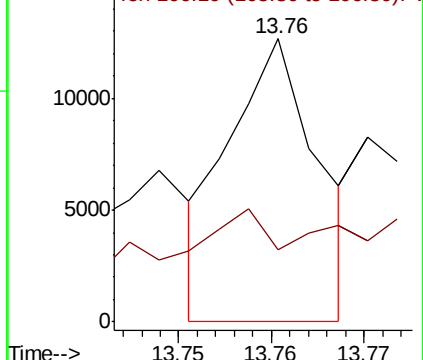
91 100

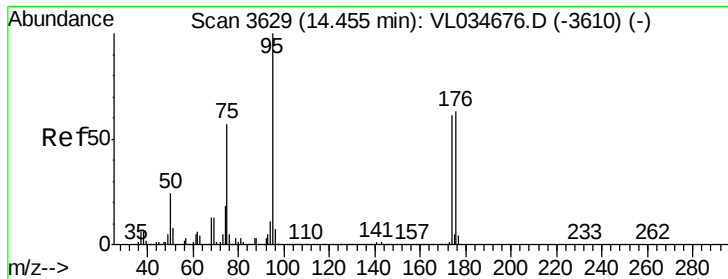
106 120.6 21.9 65.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

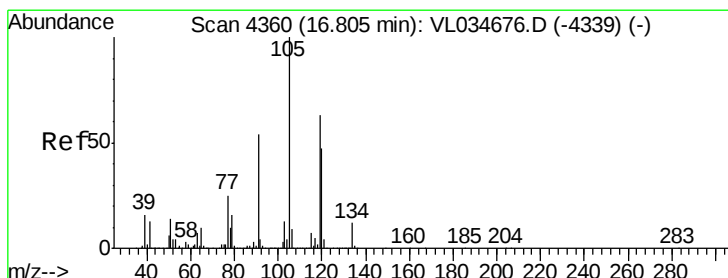
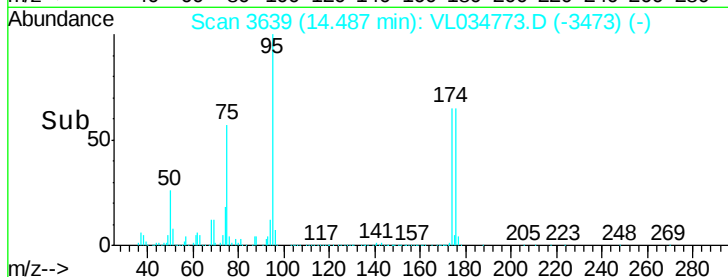
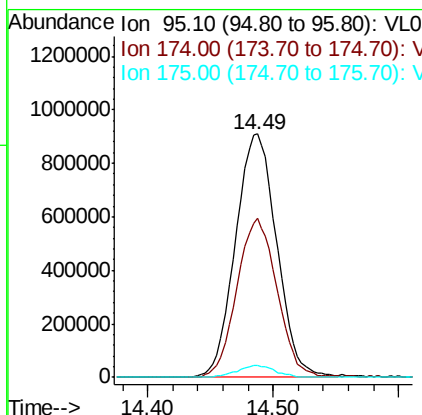
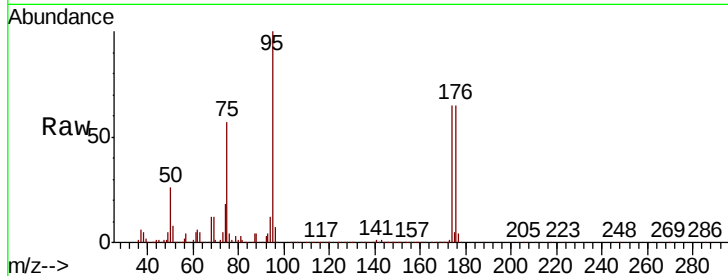




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.401 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. 0.03 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2070571
 Ion Ratio Lower Upper
 95 100
 174 64.6 50.7 76.1
 175 4.7 3.9 5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.027 ppbv
 RT: 16.85 min Scan# 4374
 Delta R.T. 0.05 min
 Lab File: VL034773.D
 Acq: 3 Mar 2020 21:08

Tgt Ion: 105 Resp: 8199
 Ion Ratio Lower Upper
 105 100
 120 38.2 37.9 56.9
 91 9.3 43.9 65.9#
 77 12.6 20.3 30.5#

