

Data File : VL034712.D
Acq On : 27 Feb 2020 17:15
Operator : SY/AP
Sample : L1662-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

Quant Time: Feb 28 01:08:52 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1083721	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2199176	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2186384	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1850600 10.32 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.20%

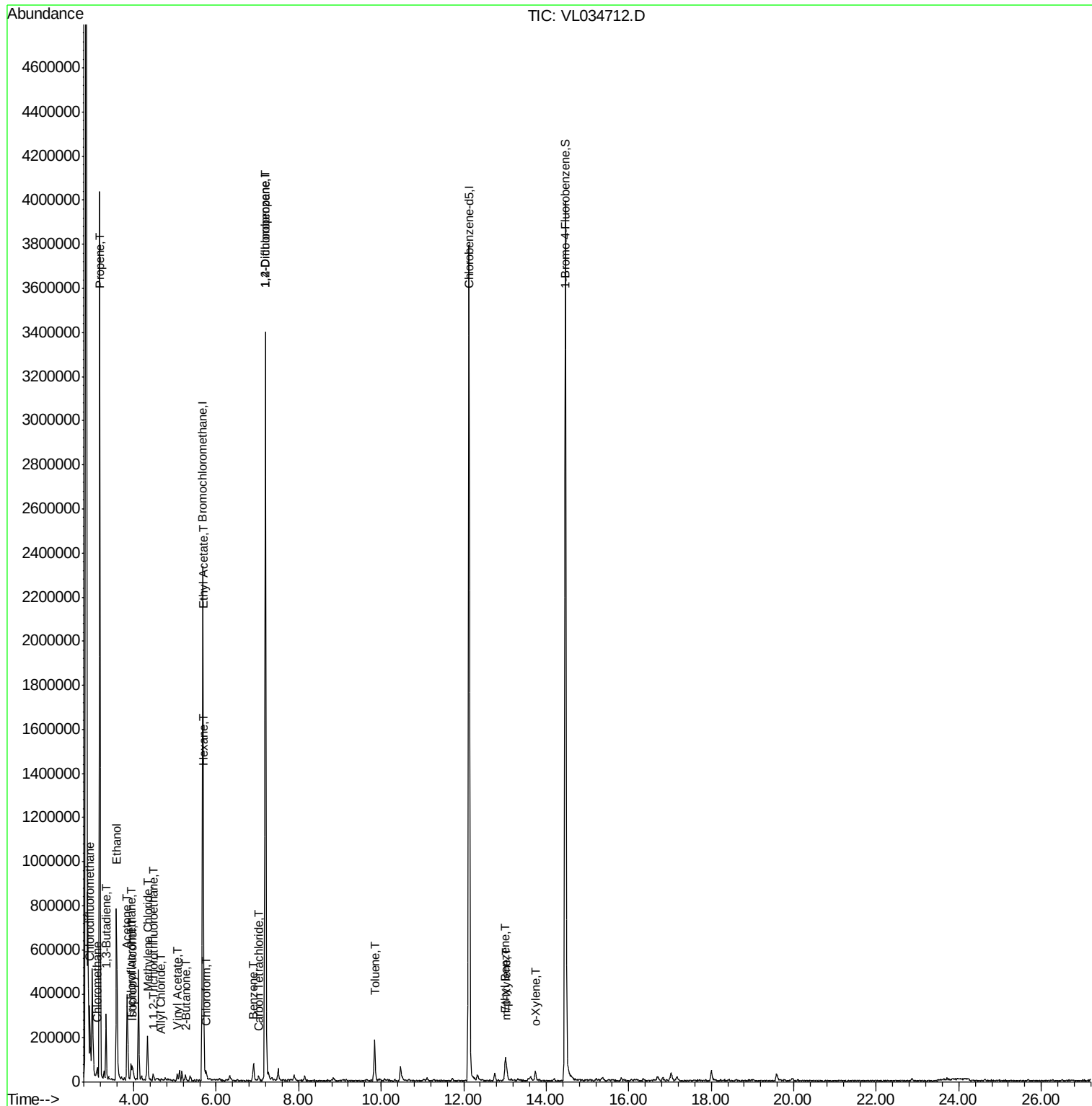
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.93	51	183788	1.571	ppbv #	68
4) Chloromethane	3.11	50	32808	0.501	ppbv	92
9) Propene	3.18	41	1142555	23.371	ppbv	92
11) Trichlorofluoromethane	3.93	101	36091	0.241	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.47	101	6697	0.063	ppbv	87
13) Ethanol	3.58	45	767607	49.702	ppbv	95
15) Acetone	3.84	43	384480	3.113	ppbv	98
16) 1,3-Butadiene	3.34	39	37929	0.663	ppbv #	11
19) Isopropyl Alcohol	3.97	45	23584	0.321	ppbv #	44
20) Methylene Chloride	4.33	84	61415	1.337	ppbv #	90
21) Allyl Chloride	4.66	41	2478	0.030	ppbv #	46
23) Vinyl Acetate	5.06	43	8112	0.048	ppbv #	57
25) Ethyl Acetate	5.69	43	53762	0.246	ppbv #	90
26) Hexane	5.70	57	51285	0.509	ppbv #	53
29) Chloroform	5.75	83	7669	0.048	ppbv	96
34) 2-Butanone	5.24	43	6620	0.048	ppbv #	53
35) Carbon Tetrachloride	7.03	117	7569	0.051	ppbv #	80
36) Benzene	6.91	78	48653	0.256	ppbv #	85
39) 1,2-Dichloropropane	7.19	63	643737	8.519	ppbv #	23
53) Toluene	9.84	91	125499	0.621	ppbv	96
58) Ethyl Benzene	13.01	91	17263	0.065	ppbv	96
59) m/p-Xylene	13.05	91	15836	0.069	ppbv #	32
60) o-Xylene	13.74	91	25025	0.109	ppbv	83

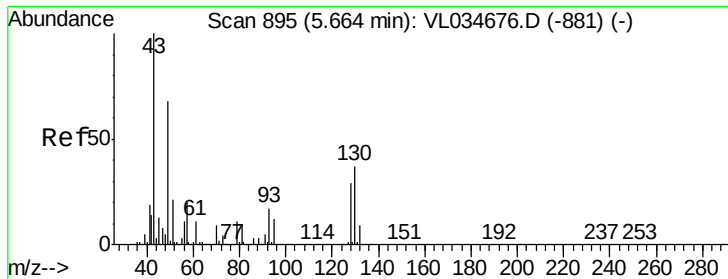
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL034712.D

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Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

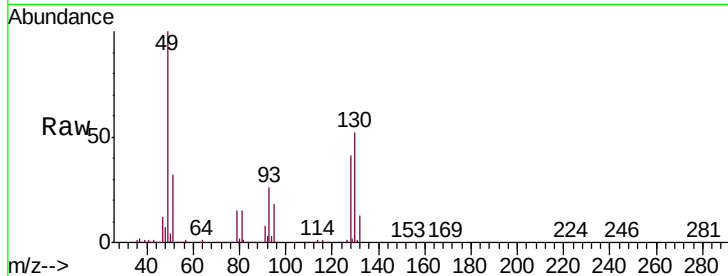
Tgt Ion: 49 Resp: 1083721

Ion Ratio Lower Upper

49 100

128 43.8 21.6 65.0

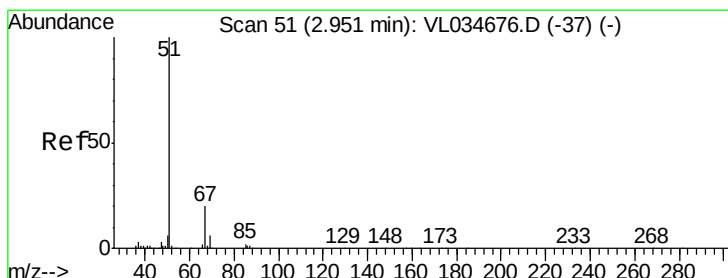
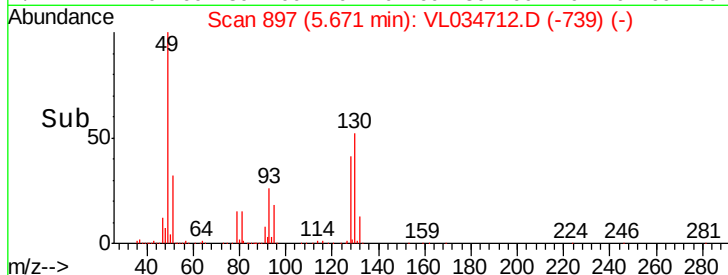
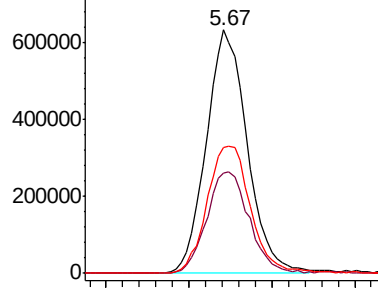
130 56.2 27.7 83.1



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: 1.571 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL034712.D

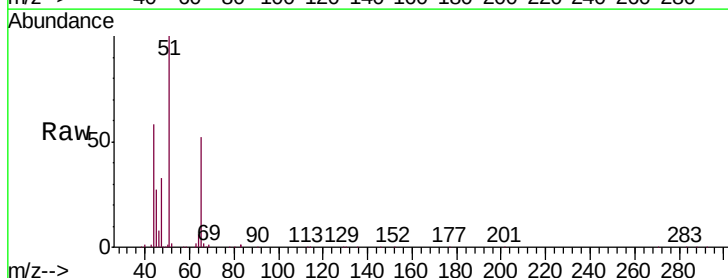
Acq: 27 Feb 2020 17:15

Tgt Ion: 51 Resp: 183788

Ion Ratio Lower Upper

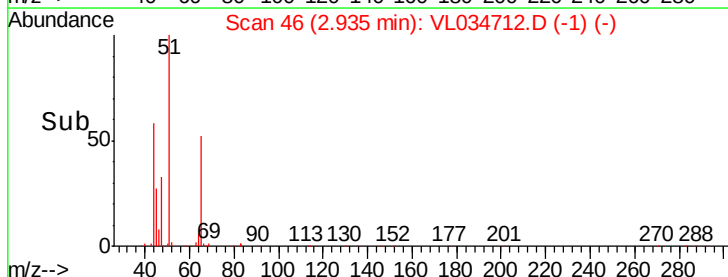
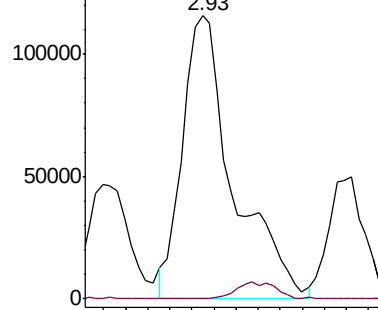
51 100

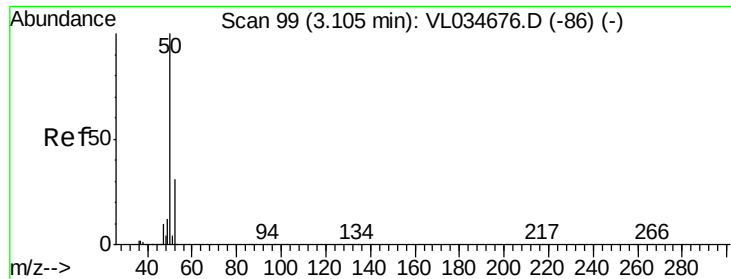
67 4.8 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.501 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

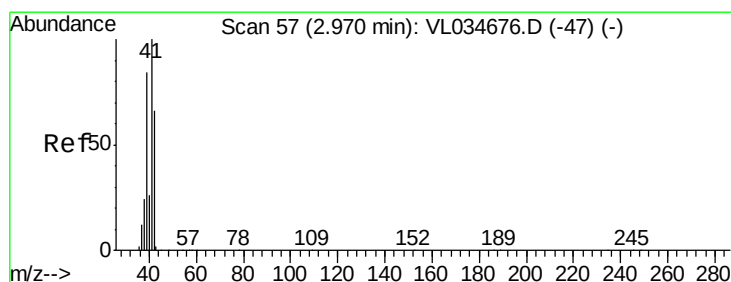
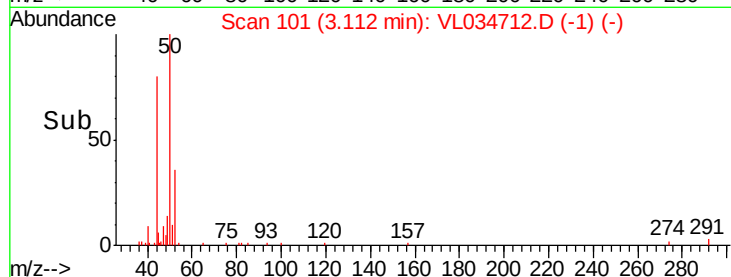
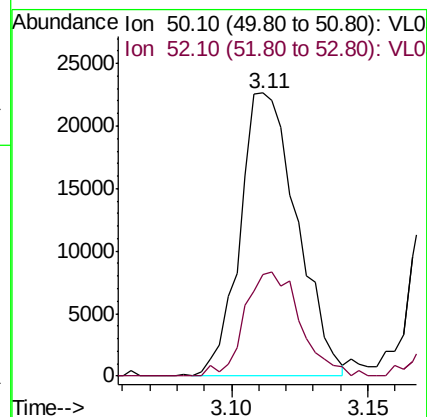
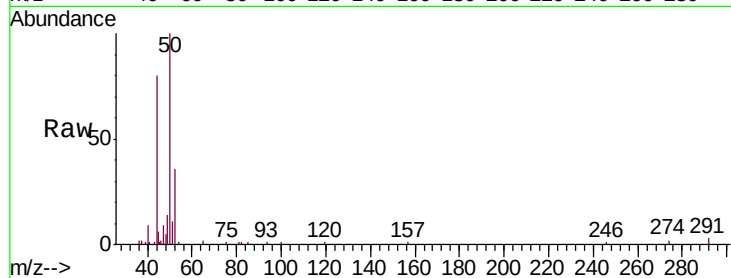
IAS-3-CAFETERIA

Tgt Ion: 50 Resp: 32808

Ion Ratio Lower Upper

50 100

52 35.8 25.0 37.4



#9

Propene

Concen: 23.371 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.21 min

Lab File: VL034712.D

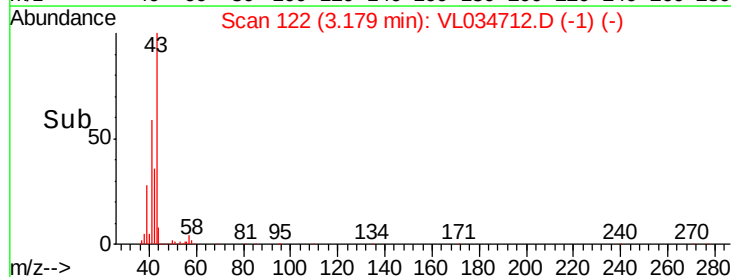
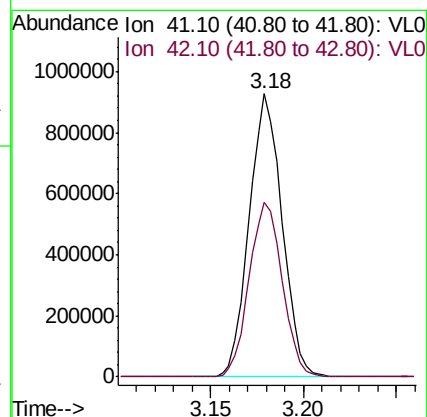
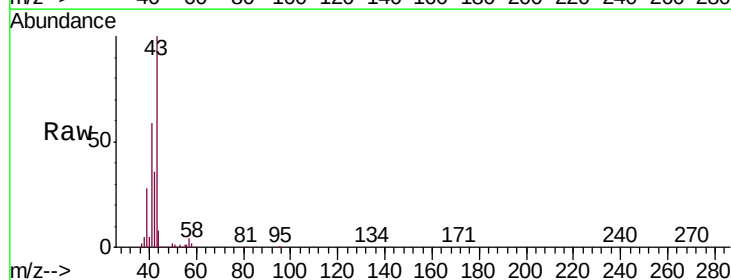
Acq: 27 Feb 2020 17:15

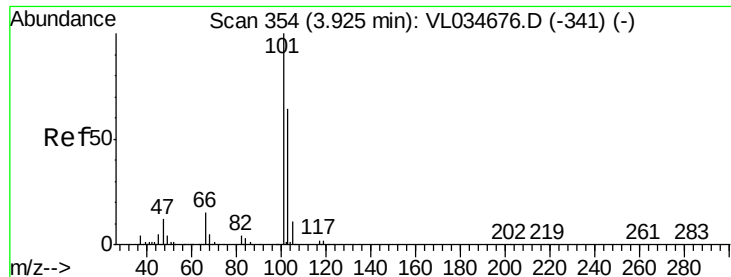
Tgt Ion: 41 Resp: 1142555

Ion Ratio Lower Upper

41 100

42 62.4 54.9 82.3





#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

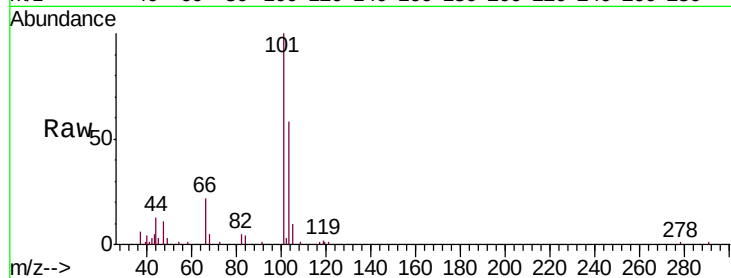
IAS-3-CAFETERIA

Tgt Ion:101 Resp: 36091

Ion Ratio Lower Upper

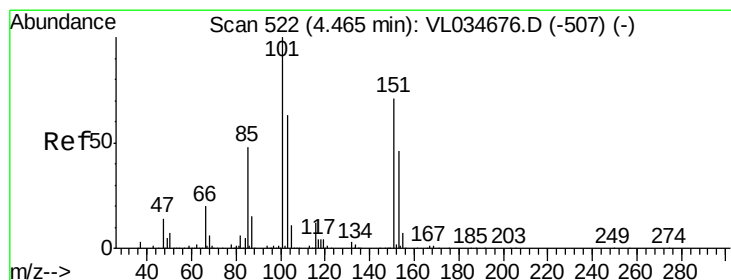
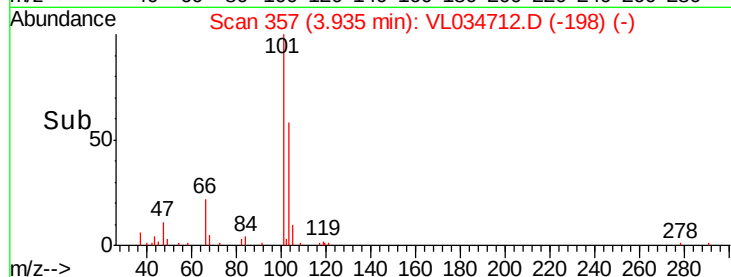
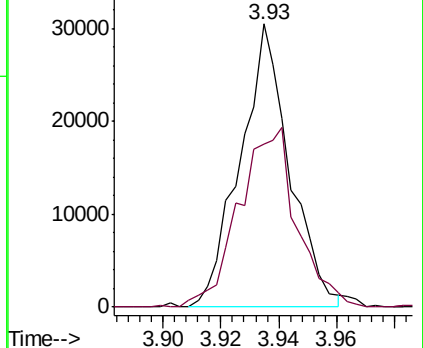
101 100

103 55.0 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.47 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL034712.D

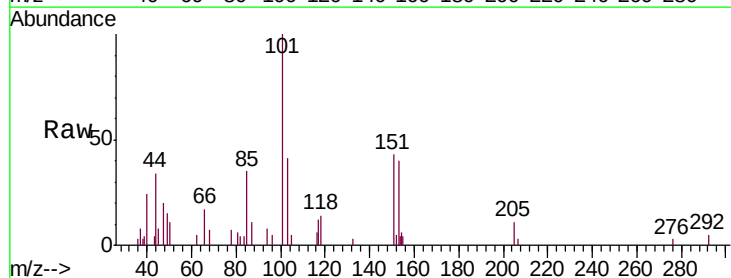
Acq: 27 Feb 2020 17:15

Tgt Ion:101 Resp: 6697

Ion Ratio Lower Upper

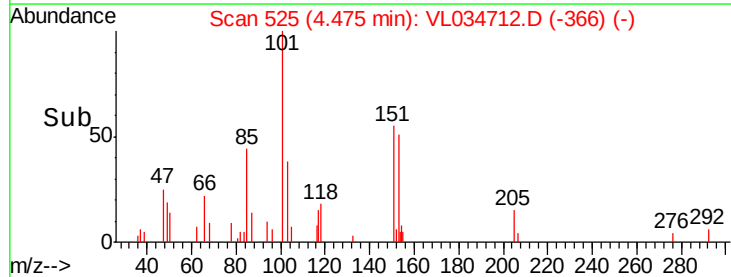
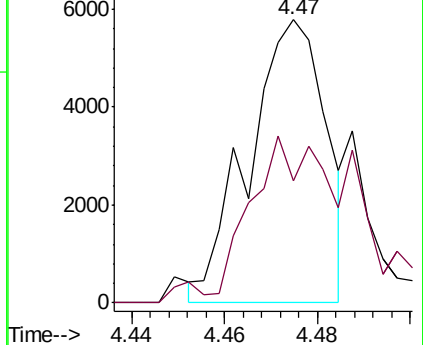
101 100

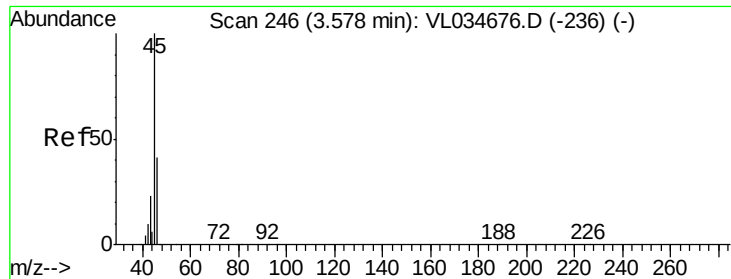
151 80.4 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 49.702 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

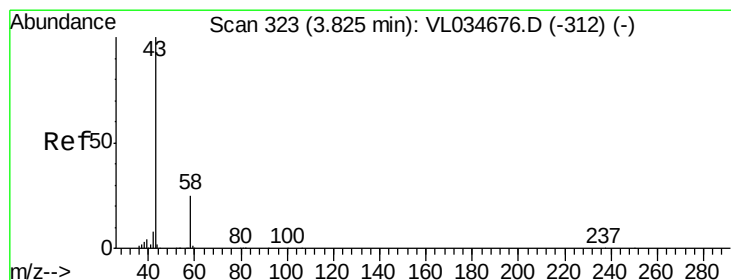
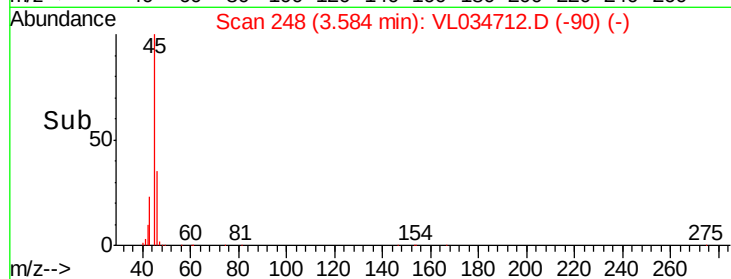
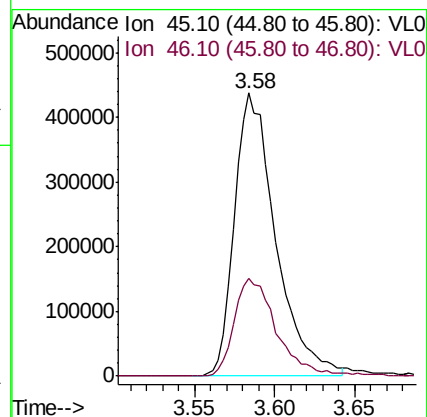
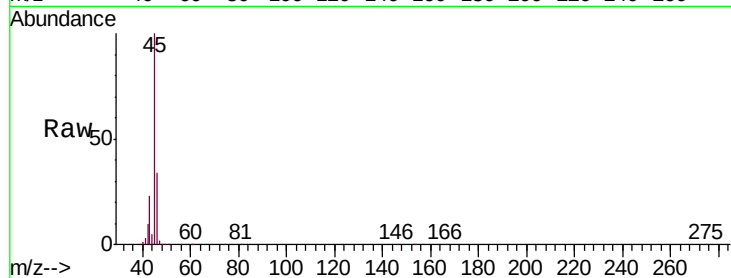
IAS-3-CAFETERIA

Tgt Ion: 45 Resp: 767607

Ion Ratio Lower Upper

45 100

46 35.6 15.4 61.4



#15

Acetone

Concen: 3.113 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034712.D

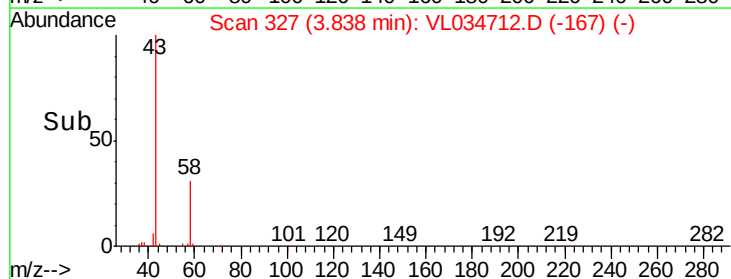
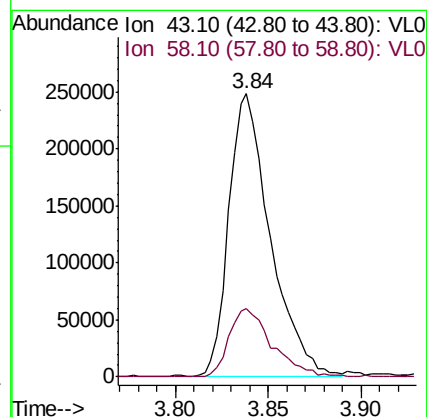
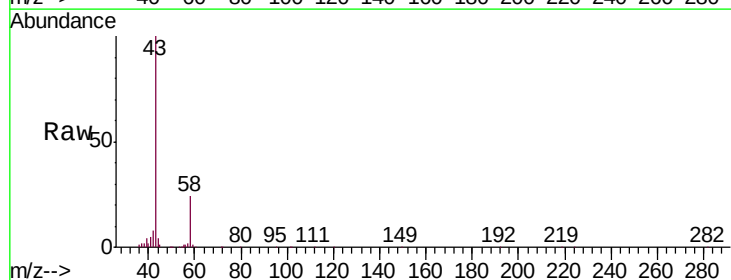
Acq: 27 Feb 2020 17:15

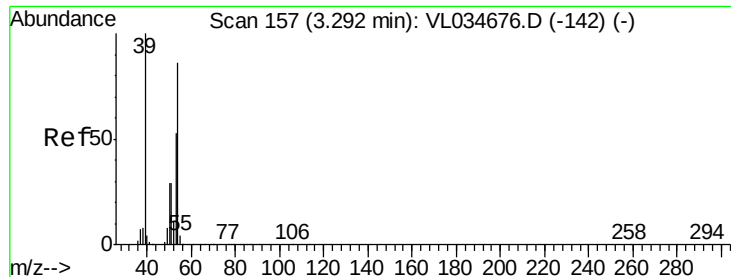
Tgt Ion: 43 Resp: 384480

Ion Ratio Lower Upper

43 100

58 25.7 21.4 32.0

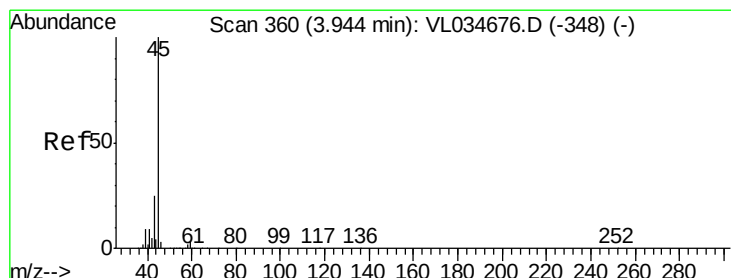
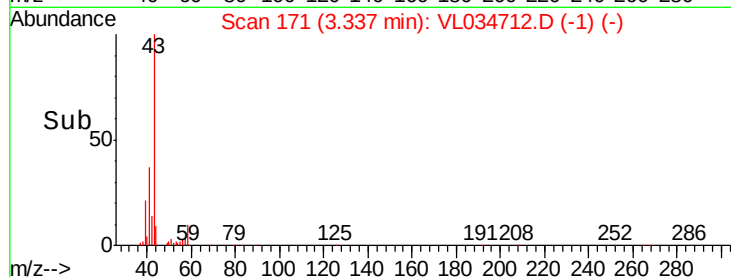
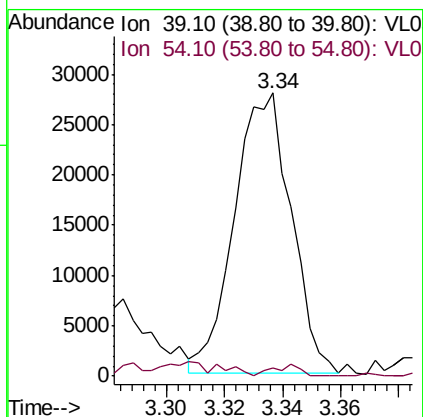
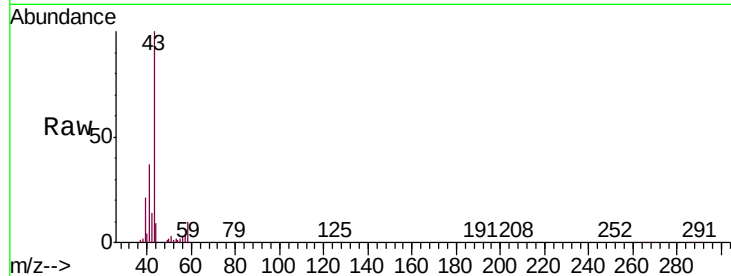




#16
 1,3-Butadiene
 Concen: 0.663 ppbv
 RT: 3.34 min Scan# 171
 Delta R.T. 0.05 min
 Lab File: VL034712.D
 Acq: 27 Feb 2020 17:15

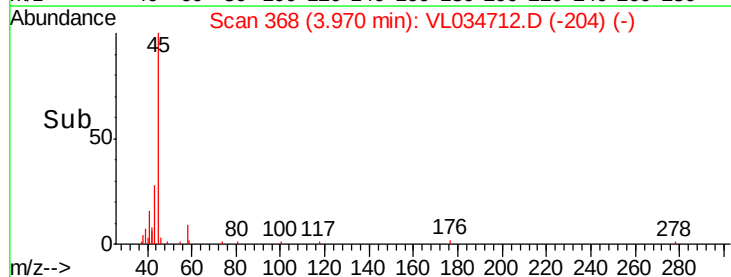
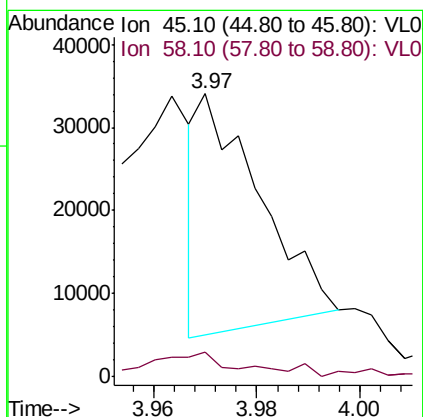
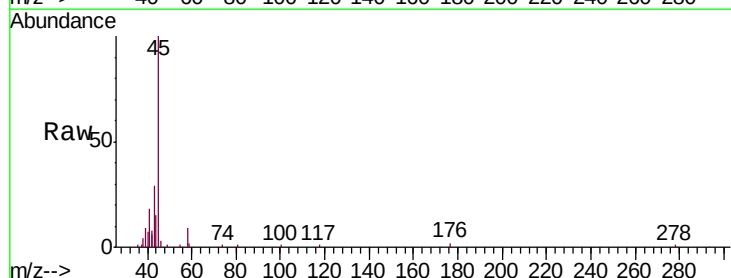
Instrument :
 MSVOA_L
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 IAS-3-CAFETERIA

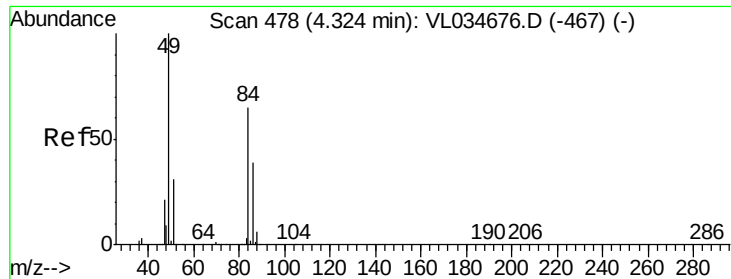
Tgt Ion: 39 Resp: 37929
 Ion Ratio Lower Upper
 39 100
 54 3.4 67.0 100.6#



#19
 Isopropyl Alcohol
 Concen: 0.321 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.03 min
 Lab File: VL034712.D
 Acq: 27 Feb 2020 17:15

Tgt Ion: 45 Resp: 23584
 Ion Ratio Lower Upper
 45 100
 58 21.5 1.8 2.6#

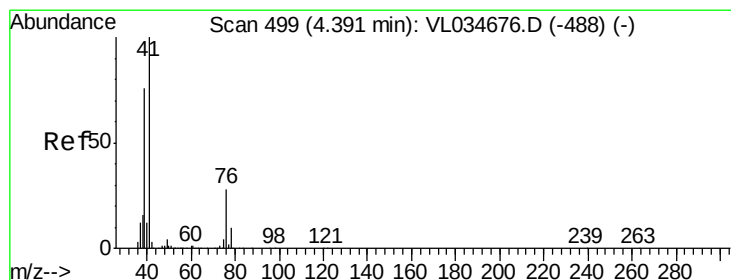
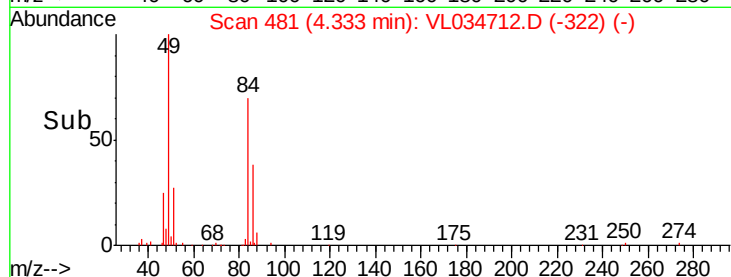
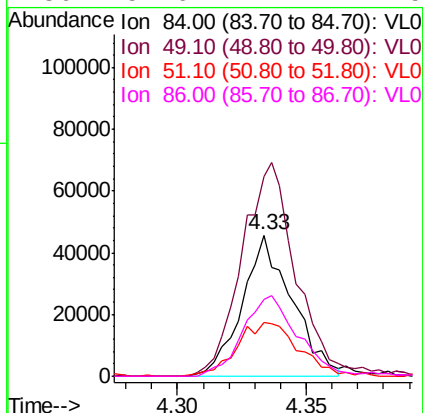
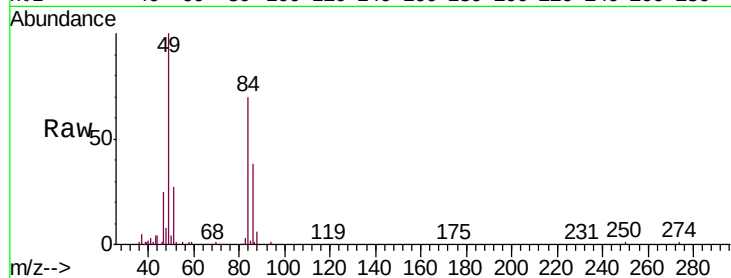




#20
Methylene Chloride
Concen: 1.337 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

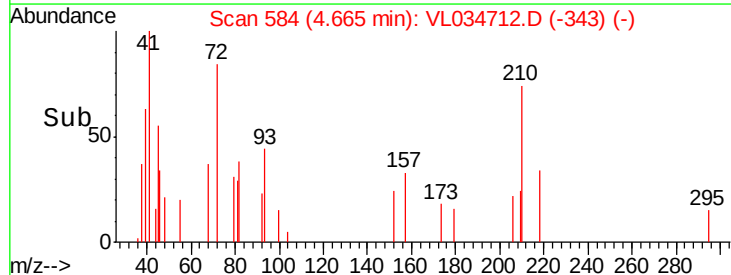
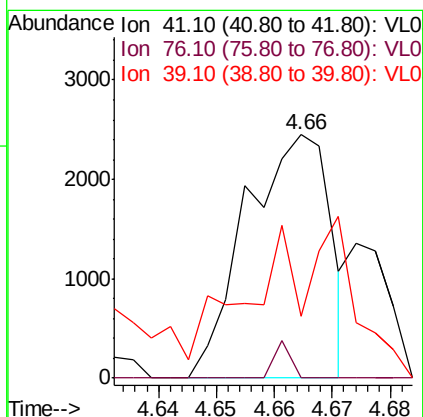
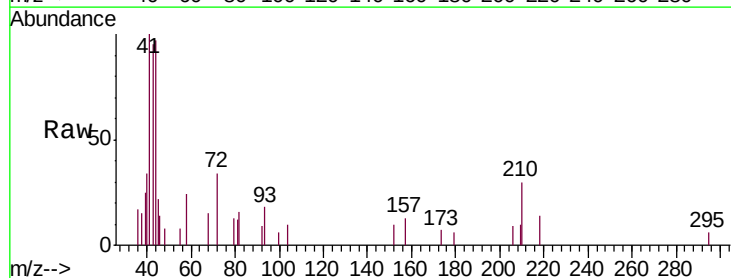
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ClientSampleId :
IAS-3-CAFETERIA

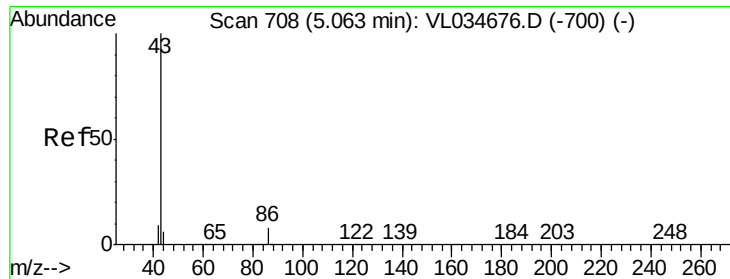
Tgt Ion: 84 Resp: 61415
Ion Ratio Lower Upper
84 100
49 141.6 122.8 184.2
51 37.0 38.6 58.0#
86 54.6 47.7 71.5



#21
Allyl Chloride
Concen: 0.030 ppbv
RT: 4.66 min Scan# 584
Delta R.T. 0.27 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

Tgt Ion: 41 Resp: 2478
Ion Ratio Lower Upper
41 100
76 46.9 22.8 34.2#
39 129.4 61.7 92.5#





#23

Vinyl Acetate

Concen: 0.048 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tgt Ion: 43 Resp: 8112

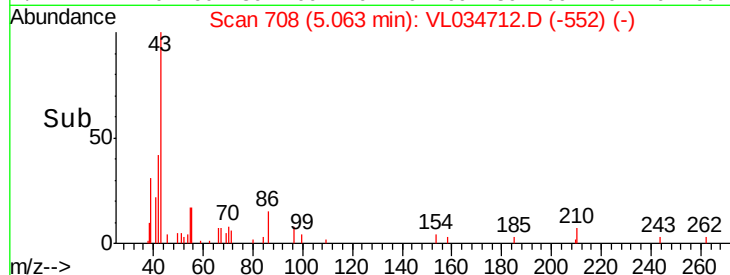
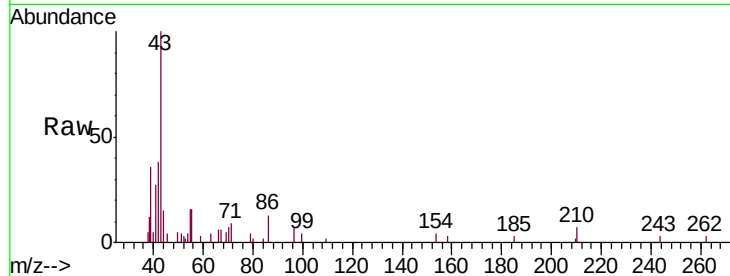
Ion Ratio Lower Upper

43 100

86 21.9 6.0 9.0#

42 31.9 8.0 12.0#

44 0.0 4.5 6.7#

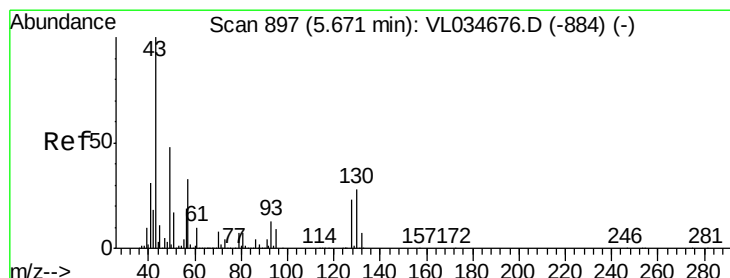
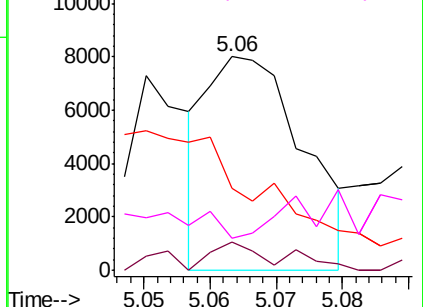


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.246 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Tgt Ion: 43 Resp: 53762

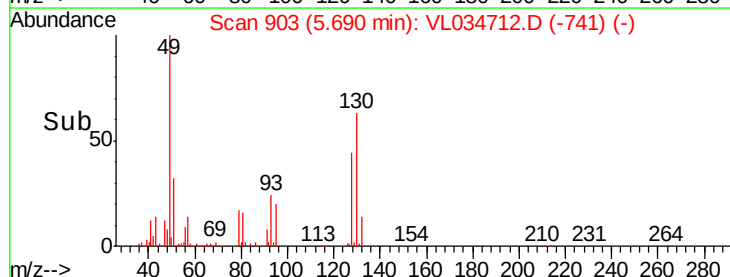
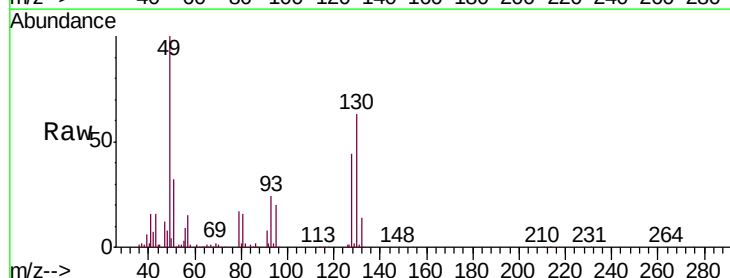
Ion Ratio Lower Upper

43 100

45 6.3 8.2 12.4#

61 5.6 7.8 11.6#

70 4.8 6.1 9.1#

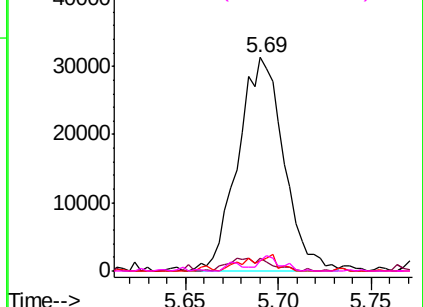


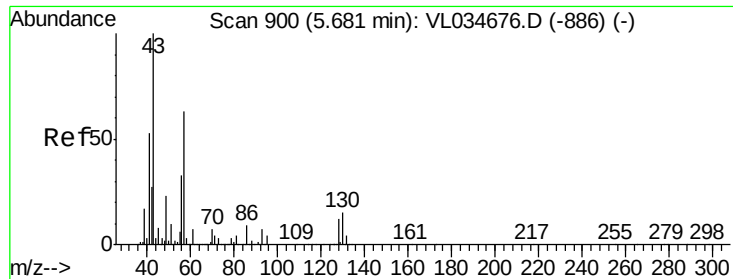
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

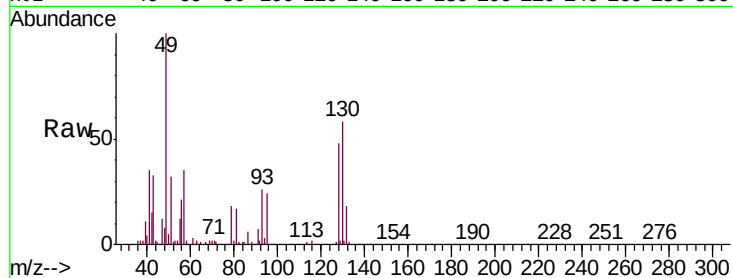




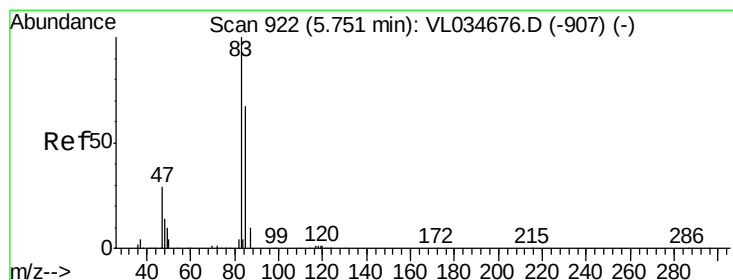
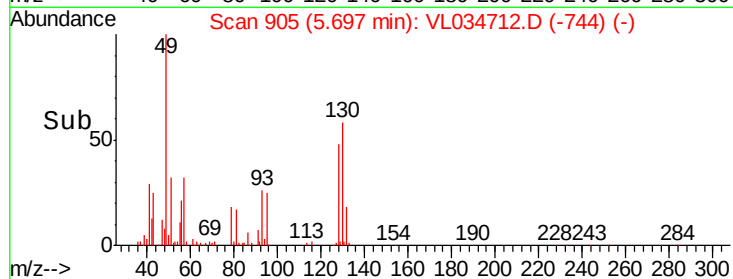
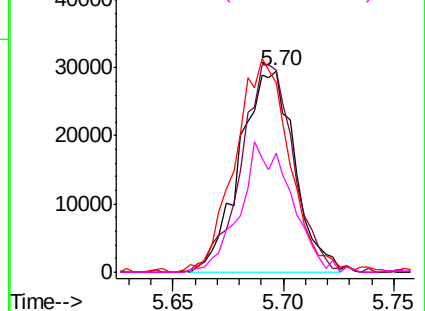
#26
Hexane
Concen: 0.509 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.02 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

Tgt Ion:	57	Resp:	51285
Ion	Ratio	Lower	Upper
57	100		
41	99.4	70.3	105.5
43	108.2	177.0	265.4#
56	60.1	42.6	64.0

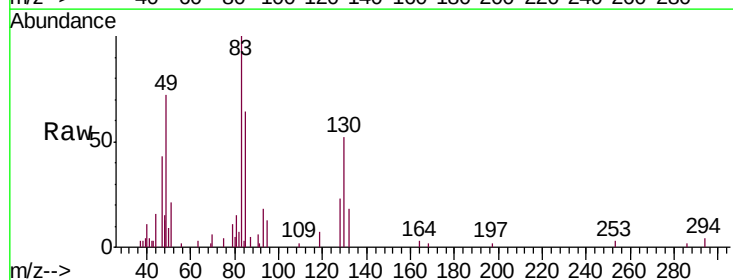


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

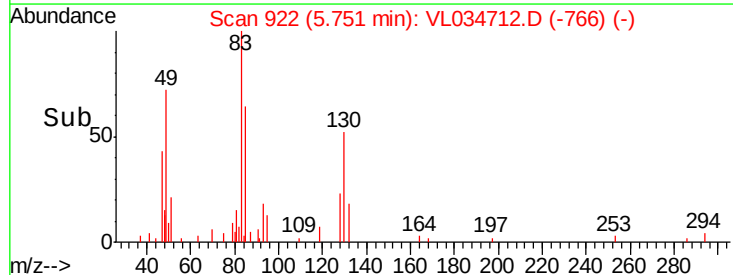
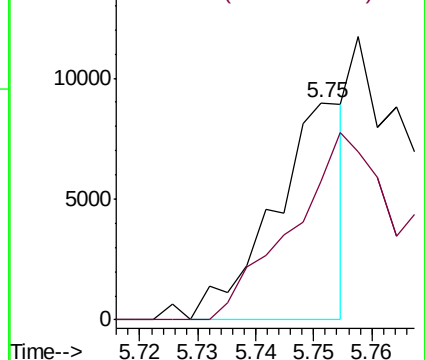


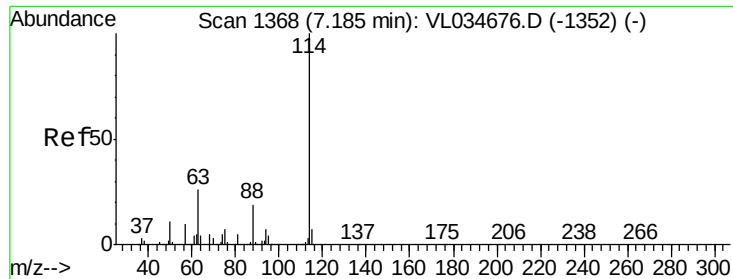
#29
Chloroform
Concen: 0.048 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

Tgt Ion:	83	Resp:	7669
Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.9	80.9



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

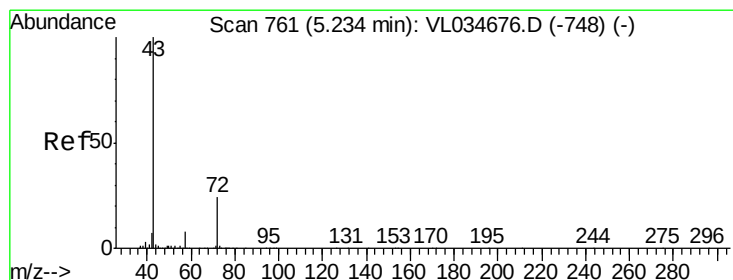
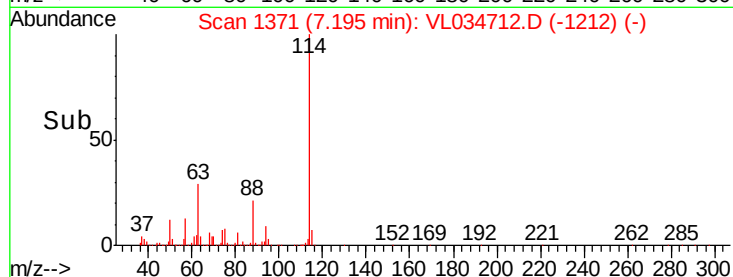
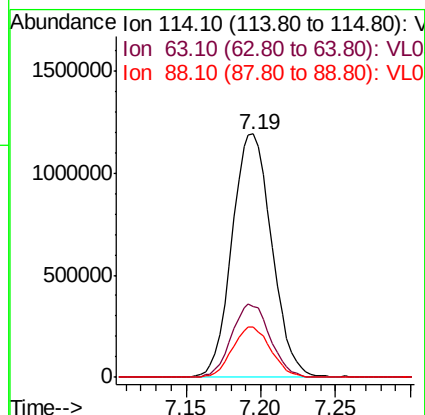
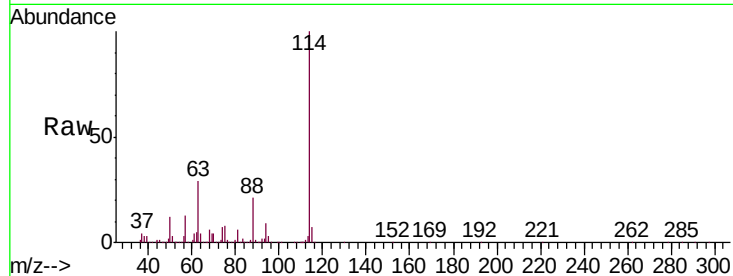




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.01 min
 Lab File: VL034712.D
 Acq: 27 Feb 2020 17:15

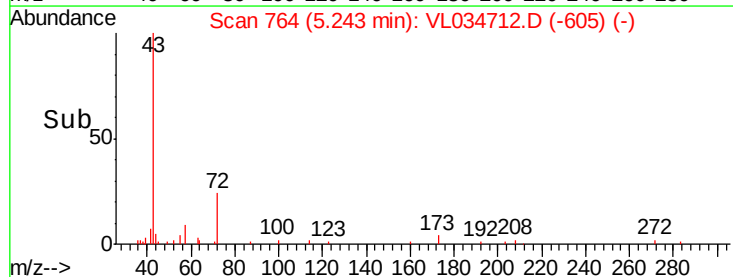
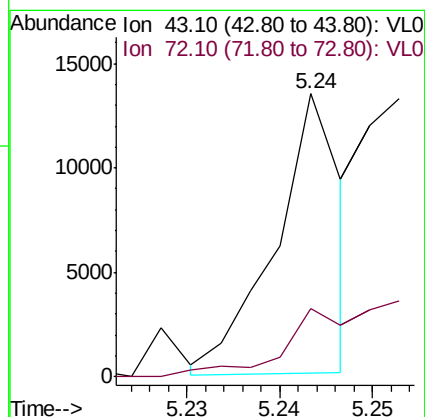
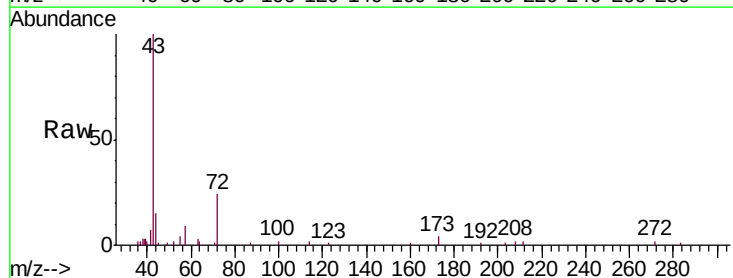
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-CAFETERIA

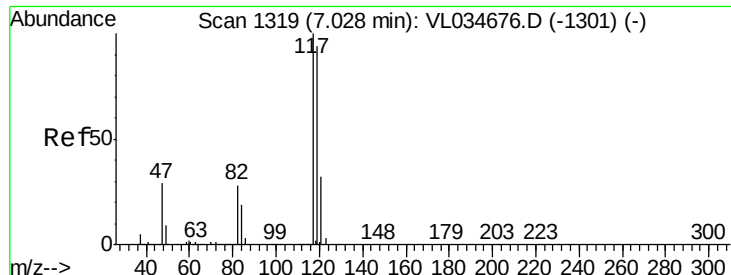
Tgt Ion:114 Resp: 2199176
 Ion Ratio Lower Upper
 114 100
 63 29.5 22.9 34.3
 88 20.1 15.8 23.6



#34
 2-Butanone
 Concen: 0.048 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034712.D
 Acq: 27 Feb 2020 17:15

Tgt Ion: 43 Resp: 6620
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





#35

Carbon Tetrachloride

Concen: 0.051 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

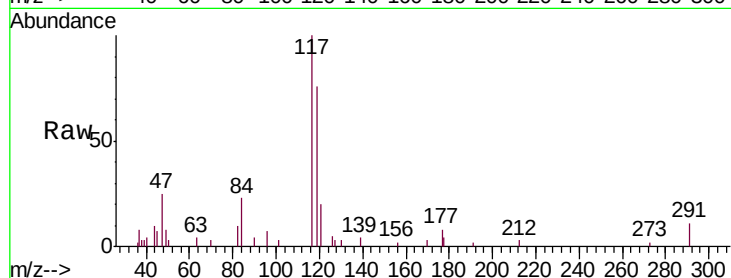
Tgt Ion:117 Resp: 7569

Ion Ratio Lower Upper

117 100

119 78.0 75.5 113.3

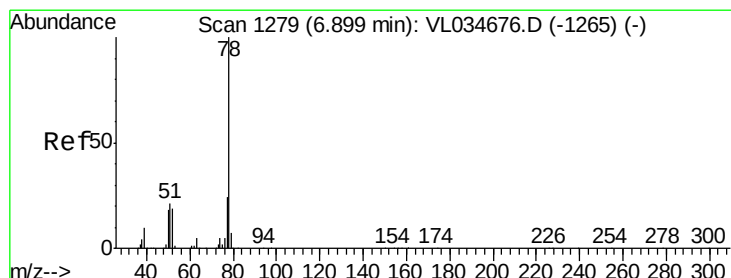
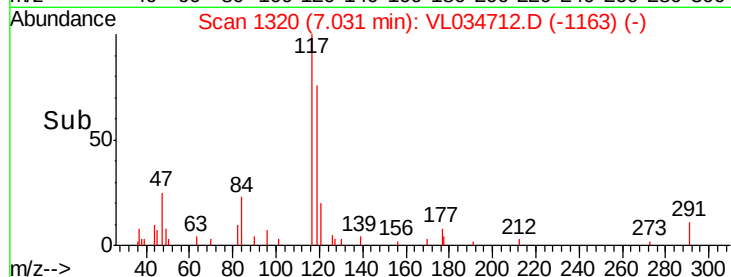
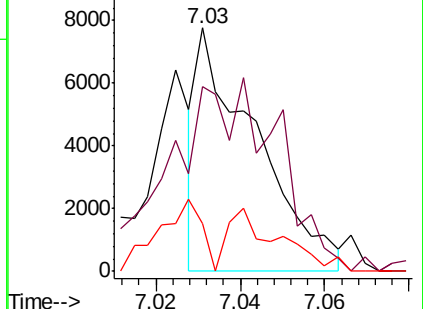
121 15.0 25.4 38.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.256 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

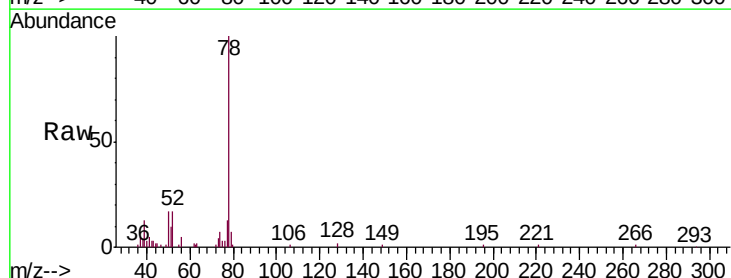
Tgt Ion: 78 Resp: 48653

Ion Ratio Lower Upper

78 100

77 12.9 19.5 29.3#

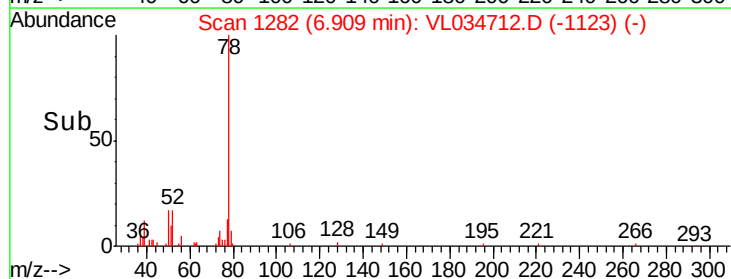
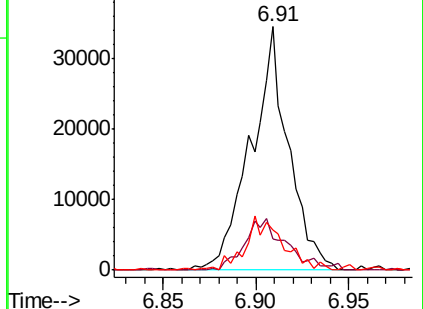
50 16.6 14.6 21.8

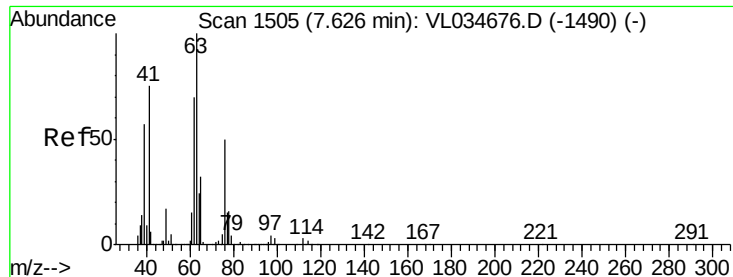


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 8.519 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.43 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

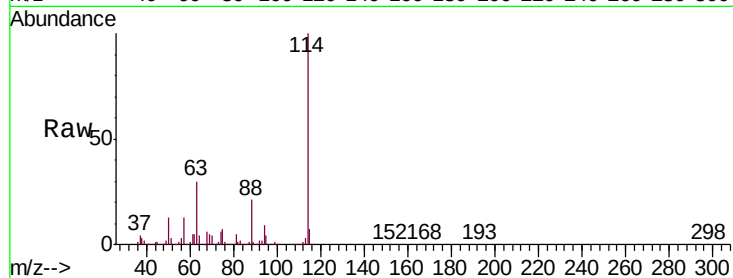
Tgt Ion: 63 Resp: 643737

Ion Ratio Lower Upper

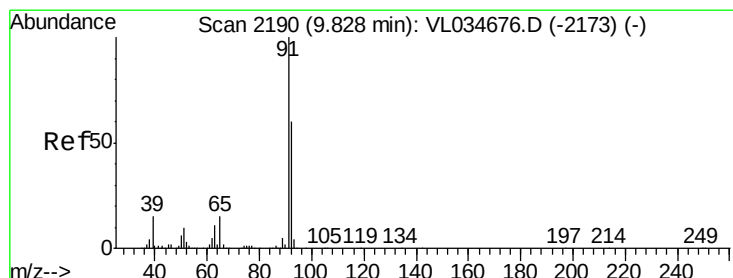
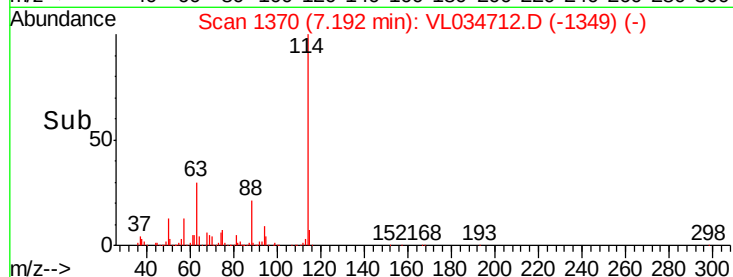
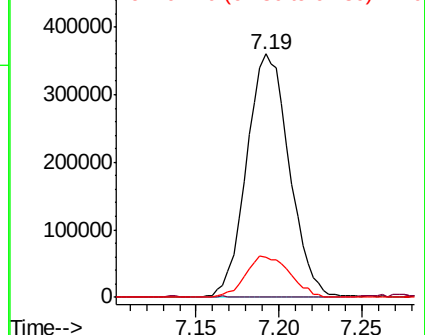
63 100

41 0.1 60.2 90.4#

62 16.7 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



#53

Toluene

Concen: 0.621 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL034712.D

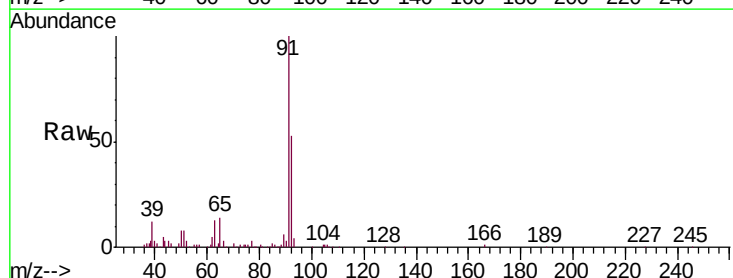
Acq: 27 Feb 2020 17:15

Tgt Ion: 91 Resp: 125499

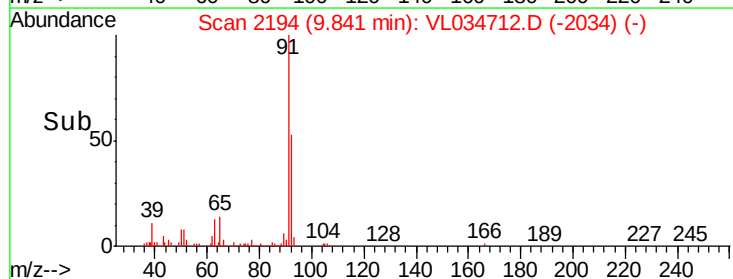
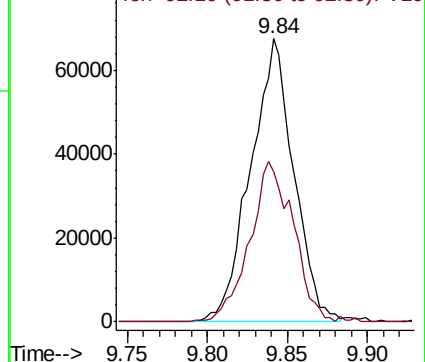
Ion Ratio Lower Upper

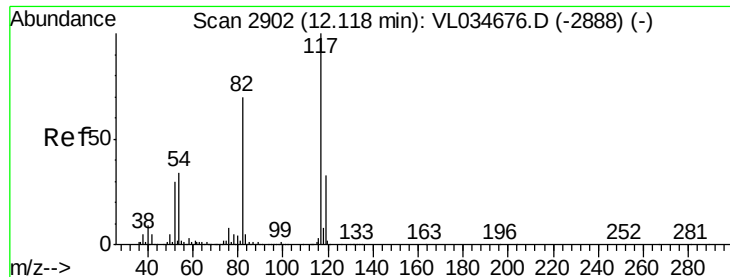
91 100

92 57.4 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

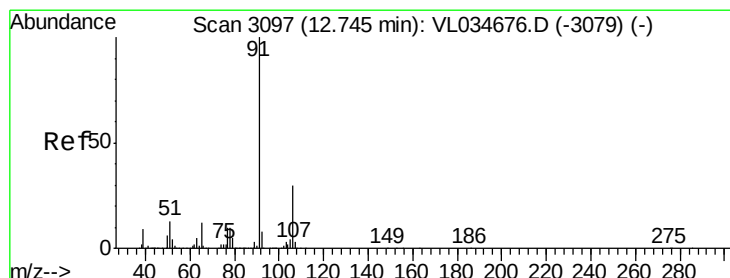
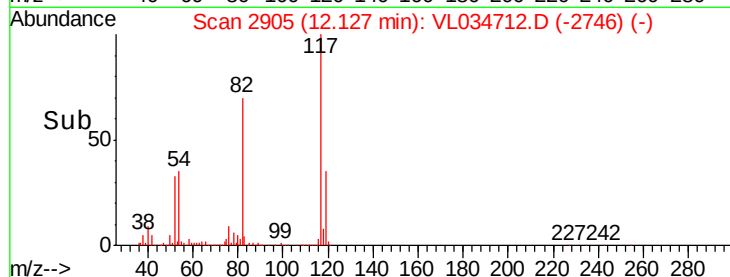
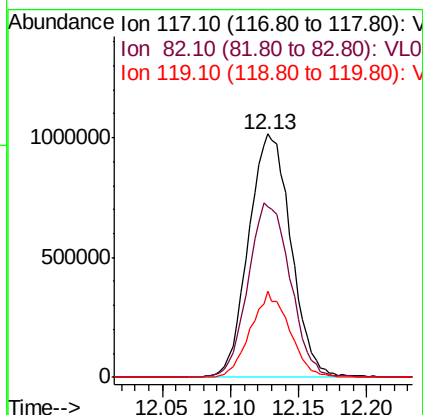
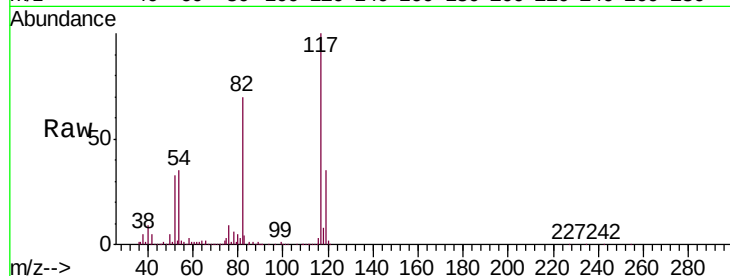




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

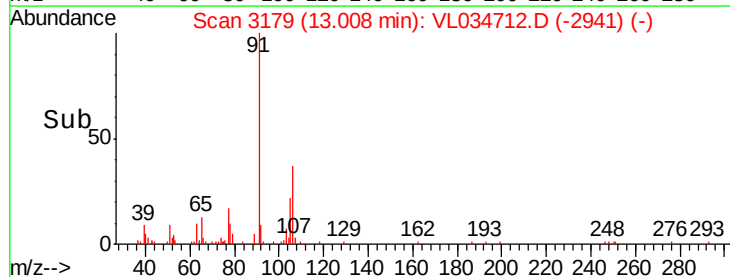
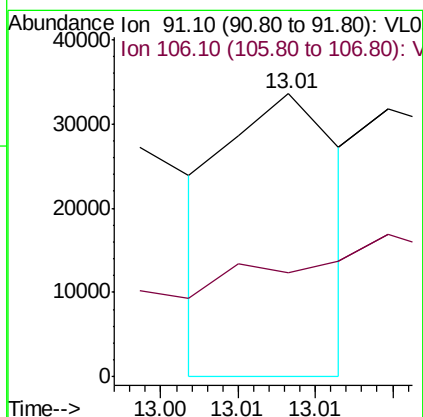
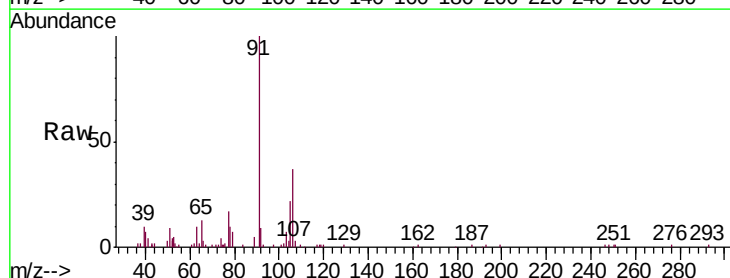
Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

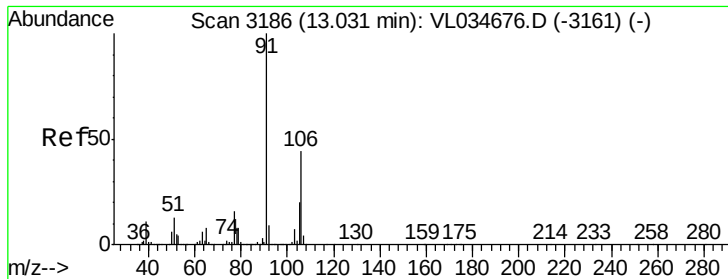
Tgt Ion:117 Resp: 2186384
Ion Ratio Lower Upper
117 100
82 72.3 54.1 81.1
119 32.5 27.6 41.4



#58
Ethyl Benzene
Concen: 0.065 ppbv
RT: 13.01 min Scan# 3179
Delta R.T. 0.26 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

Tgt Ion: 91 Resp: 17263
Ion Ratio Lower Upper
91 100
106 32.0 24.0 36.0

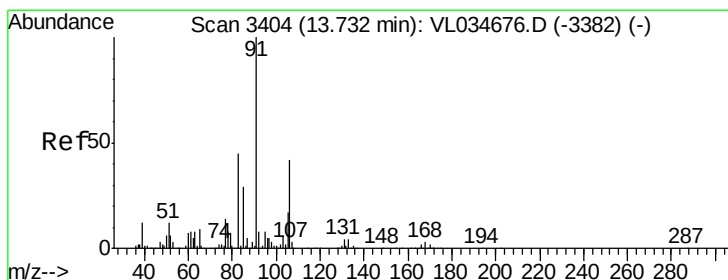
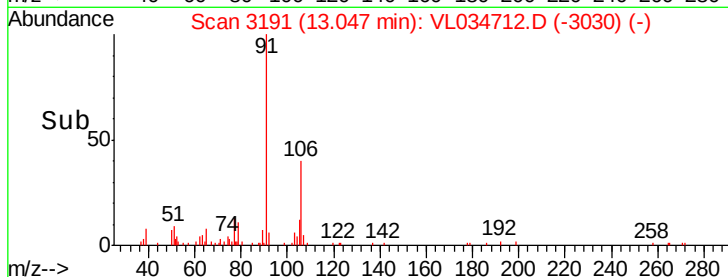
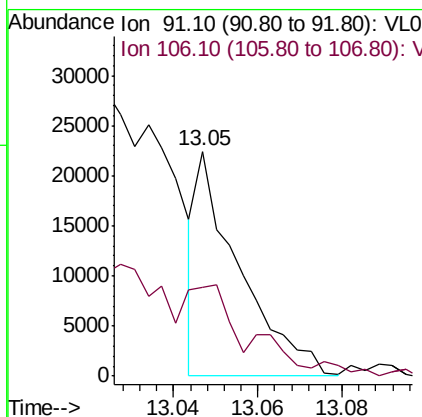
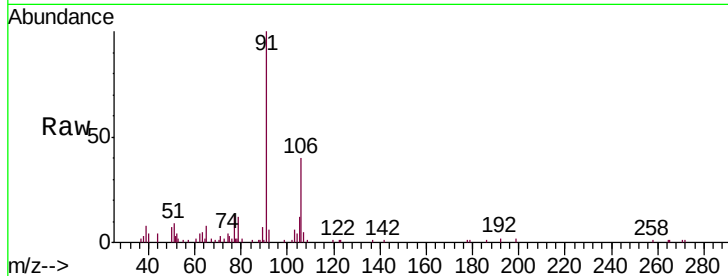




#59
m/p-Xylene
Concen: 0.069 ppbv
RT: 13.05 min Scan# 3191
Delta R.T. 0.02 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

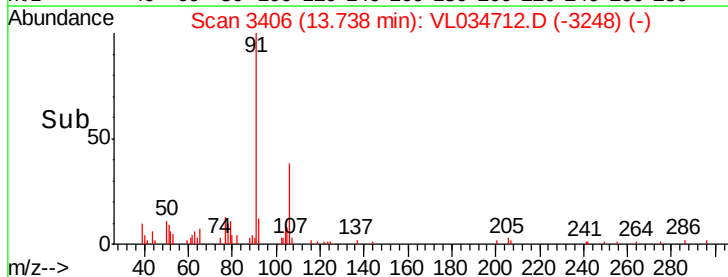
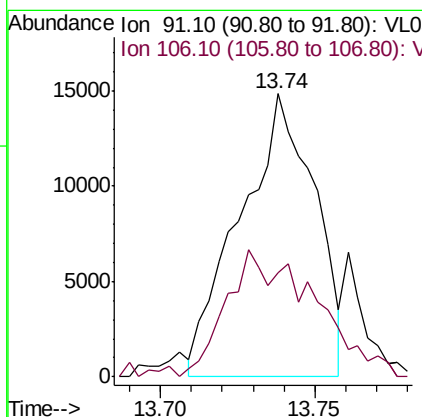
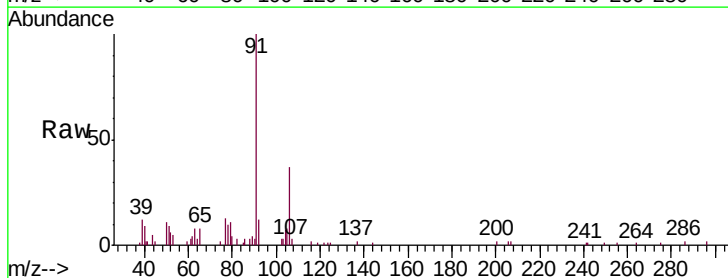
Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

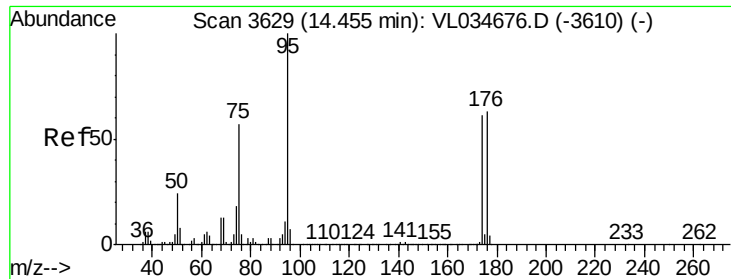
Tgt Ion: 91 Resp: 15836
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#



#60
o-Xylene
Concen: 0.109 ppbv
RT: 13.74 min Scan# 3406
Delta R.T. 0.01 min
Lab File: VL034712.D
Acq: 27 Feb 2020 17:15

Tgt Ion: 91 Resp: 25025
Ion Ratio Lower Upper
91 100
106 54.5 21.9 65.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.323 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.01 min

Lab File: VL034712.D

Acq: 27 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tgt Ion: 95 Resp: 1850600

Ion Ratio Lower Upper

95 100

174 63.2 50.7 76.1

175 4.6 3.9 5.9

