

Data File : VL034739.D
Acq On : 28 Feb 2020 16:27
Operator : SY/AP
Sample : L1662-09
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Quant Time: Mar 02 04:32:12 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	5.66	49	1027347	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2081612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2042745	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1777003 10.61 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 106.10%

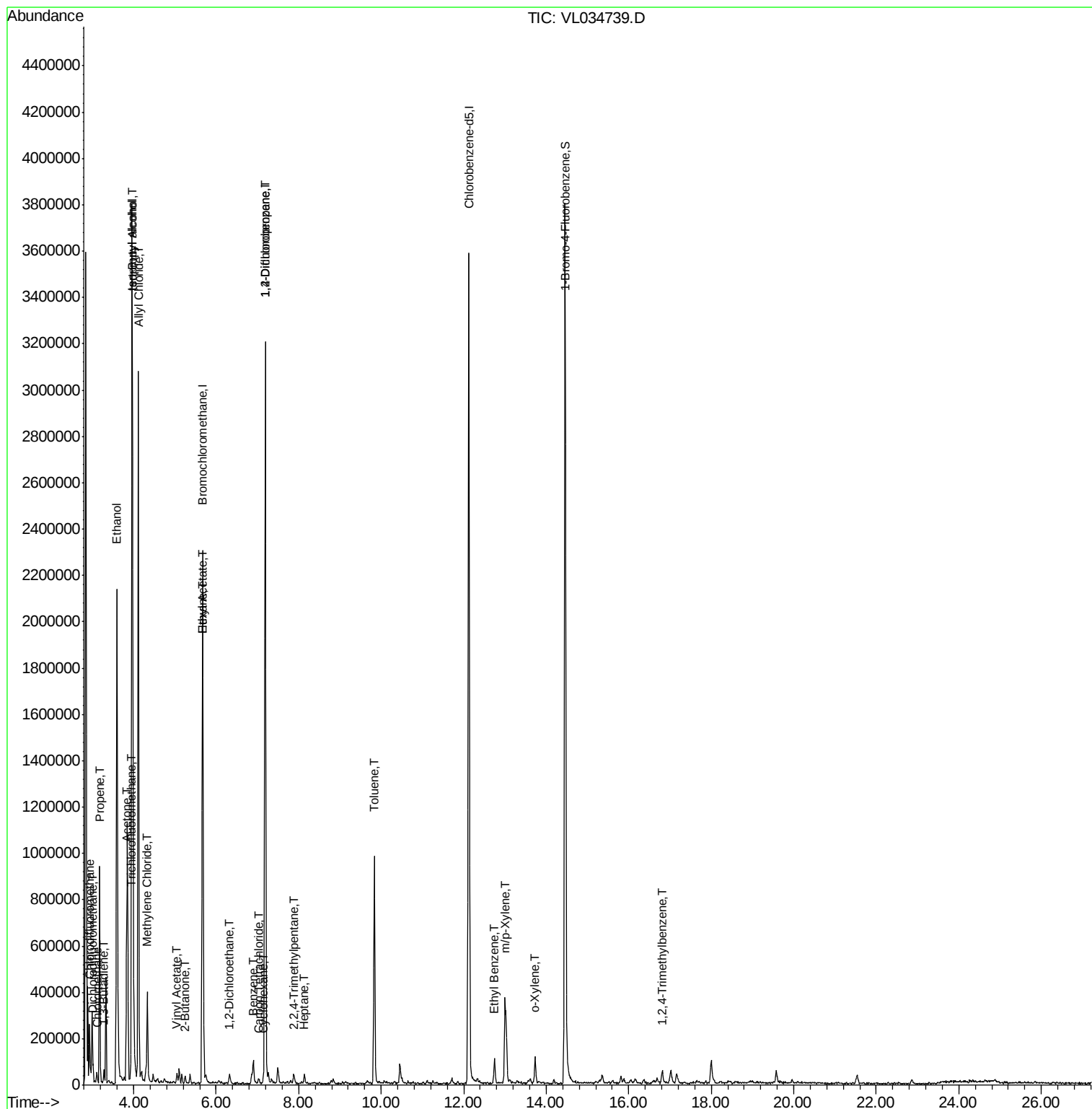
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	45778	0.282	ppbv	99
3) Chlorodifluoromethane	2.93	51	162373	1.465	ppbv #	69
4) Chloromethane	3.11	50	33709	0.543	ppbv	96
9) Propene	3.18	41	228125	4.922	ppbv	99
10) Heptane	8.14	43	3758	0.032	ppbv #	1
11) Trichlorofluoromethane	3.93	101	36670	0.258	ppbv #	78
13) Ethanol	3.59	45	2458223	167.904	ppbv	98
15) Acetone	3.83	43	1015218	8.672	ppbv #	86
16) 1,3-Butadiene	3.28	39	15206	0.281	ppbv #	33
17) tert-Butyl alcohol	3.96	59	175509	1.956	ppbv	99
19) Isopropyl Alcohol	3.96	45	4497823	64.503	ppbv #	98
20) Methylene Chloride	4.33	84	124058	2.849	ppbv	99
21) Allyl Chloride	4.11	41	874196	11.287	ppbv #	53
23) Vinyl Acetate	5.06	43	6969	0.044	ppbv #	35
25) Ethyl Acetate	5.69	43	89903	0.434	ppbv #	85
26) Hexane	5.69	57	107606	1.127	ppbv #	46
30) Cyclohexane	7.14	84	1827	0.025	ppbv #	1
34) 2-Butanone	5.25	43	34899	0.266	ppbv	96
35) Carbon Tetrachloride	7.03	117	4125	0.030	ppbv #	36
36) Benzene	6.90	78	36533	0.203	ppbv #	85
37) 1,2-Dichloroethane	6.31	62	3854	0.034	ppbv #	82
39) 1,2-Dichloropropane	7.19	63	615333	8.603	ppbv #	23
44) 2,2,4-Trimethylpentane	7.88	57	13348	0.042	ppbv #	1
53) Toluene	9.83	91	677099	3.541	ppbv	100
58) Ethyl Benzene	12.75	91	79014	0.320	ppbv #	87
59) m/p-Xylene	13.01	91	363147	1.685	ppbv	99
60) o-Xylene	13.73	91	41408	0.194	ppbv #	37
74) 1,2,4-Trimethylbenzene	16.82	105	6423	0.025	ppbv #	40

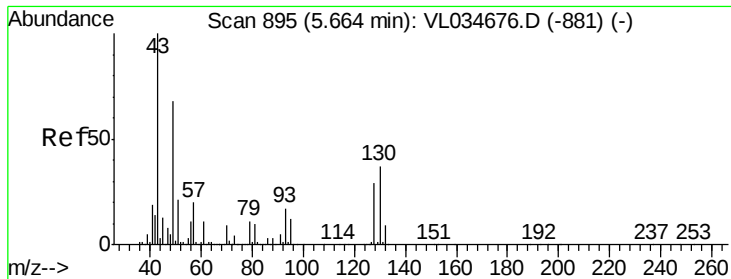
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034739.D

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Instrument :

MSVOA_L

ClientSampleId :

IAS-9-TROPHY-CASE

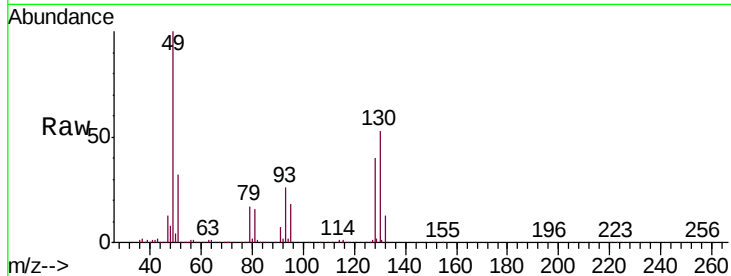
Tgt Ion: 49 Resp: 1027347

Ion Ratio Lower Upper

49 100

128 43.7 21.6 65.0

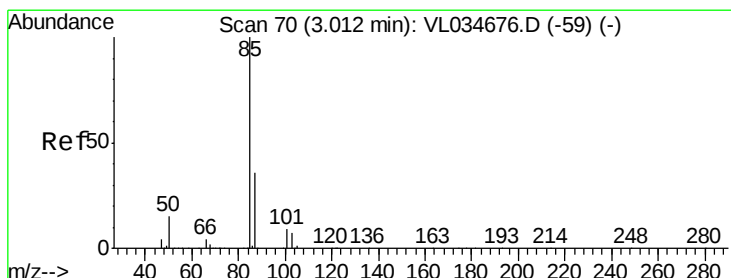
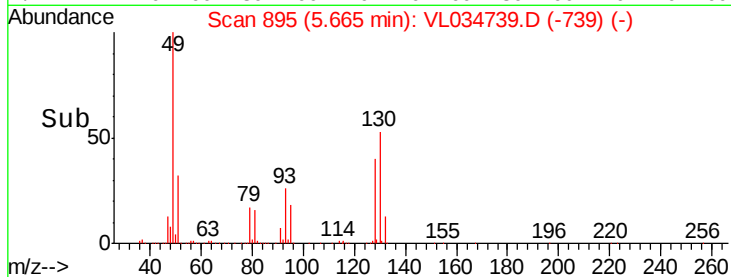
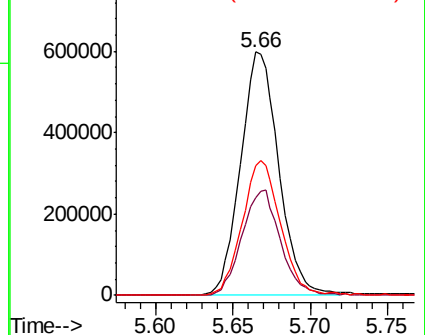
130 55.9 27.7 83.1



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



#2

Dichlorodifluoromethane

Concen: 0.282 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034739.D

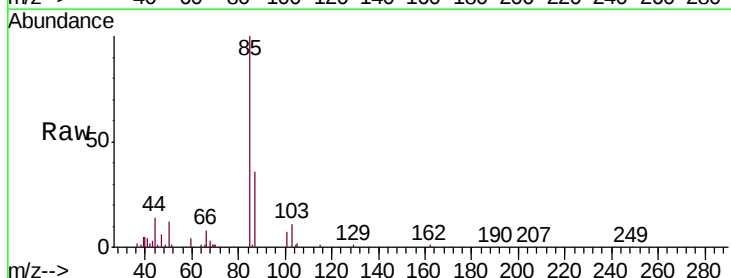
Acq: 28 Feb 2020 16:27

Tgt Ion: 85 Resp: 45778

Ion Ratio Lower Upper

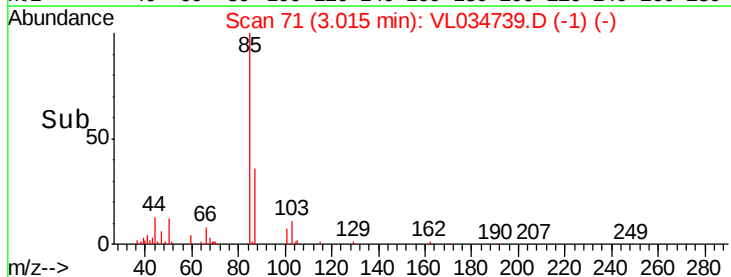
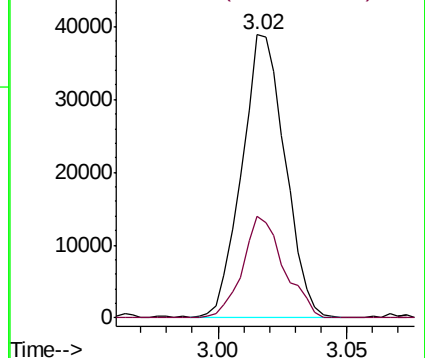
85 100

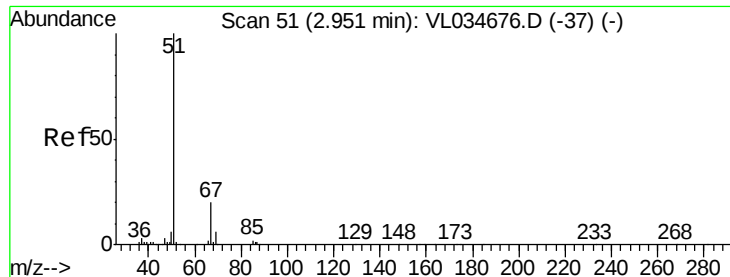
87 36.1 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

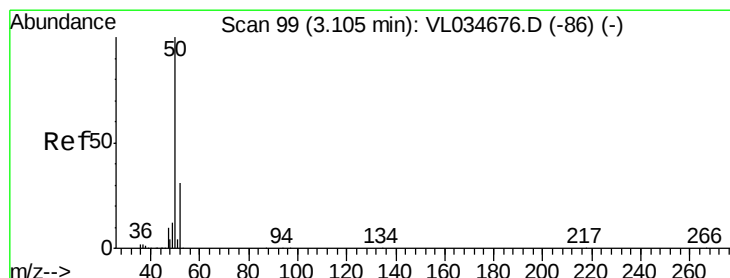
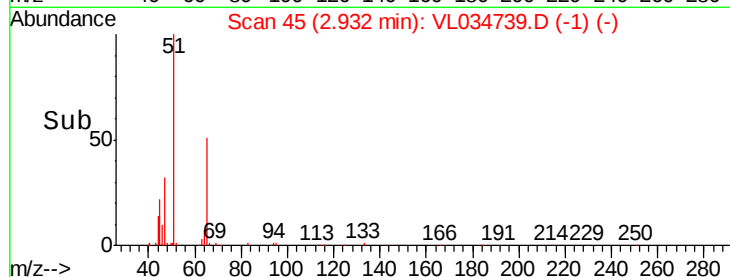
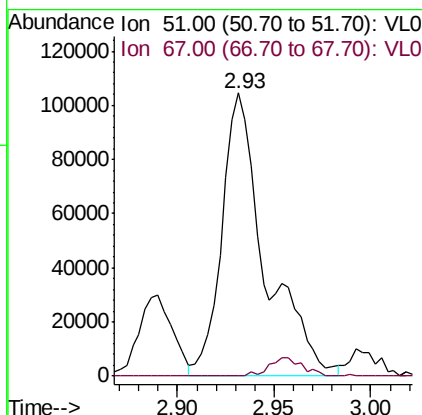
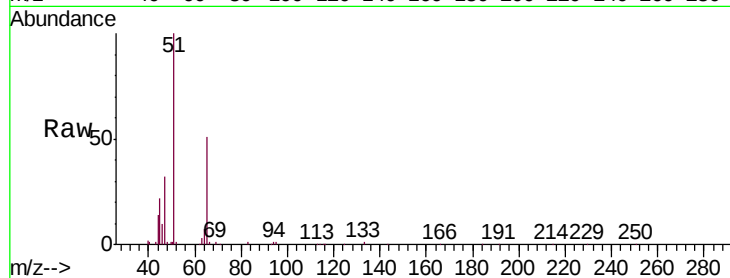




#3
Chlorodifluoromethane
Concen: 1.465 ppbv
RT: 2.93 min Scan# 45
Delta R.T. -0.02 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

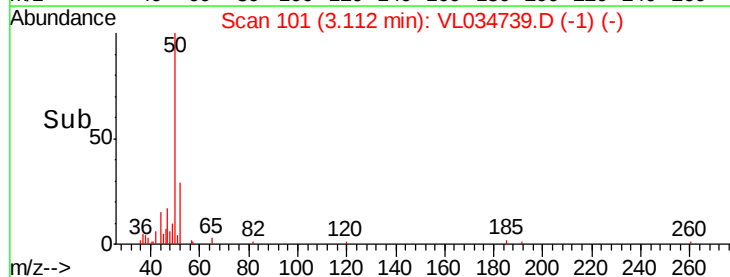
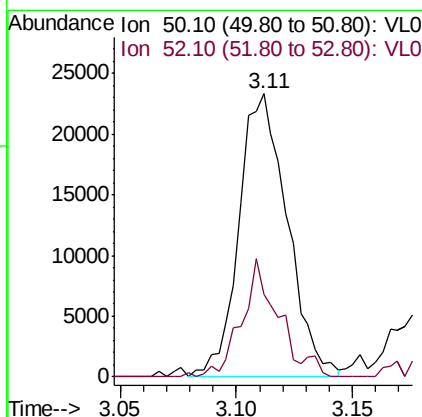
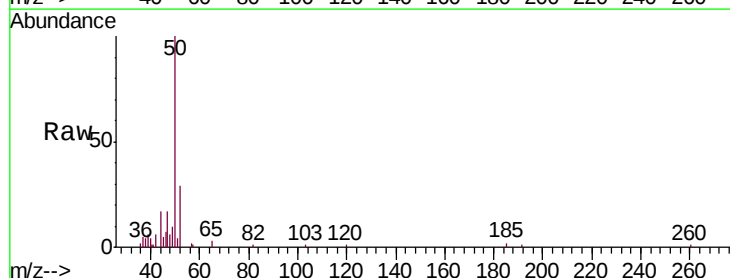
Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

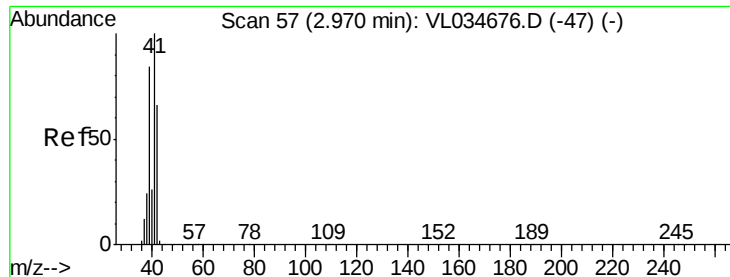
Tgt Ion: 51 Resp: 162373
Ion Ratio Lower Upper
51 100
67 5.2 15.5 23.3#



#4
Chloromethane
Concen: 0.543 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion: 50 Resp: 33709
Ion Ratio Lower Upper
50 100
52 29.1 25.0 37.4





#9

Propene

Concen: 4.922 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.21 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

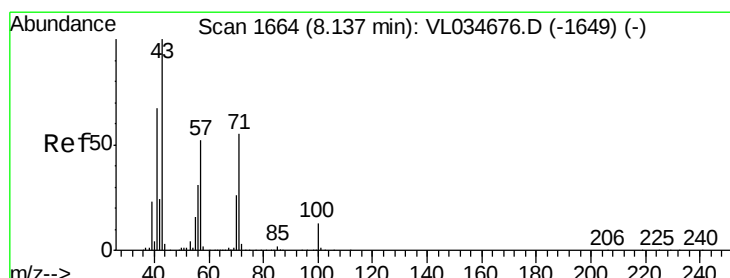
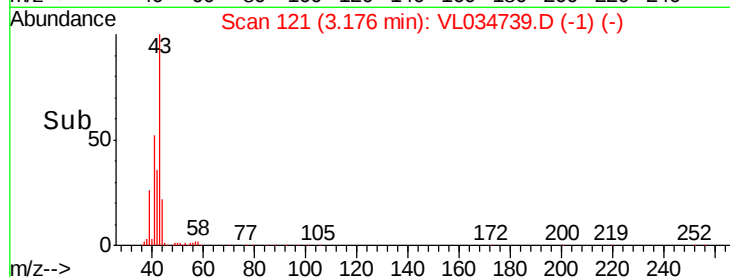
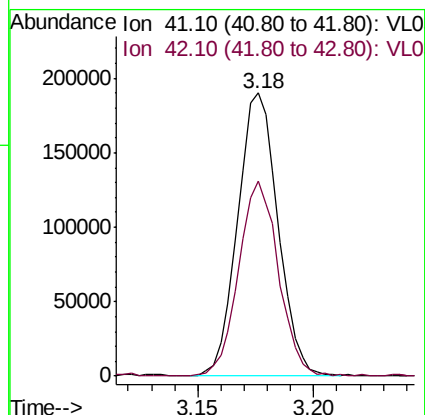
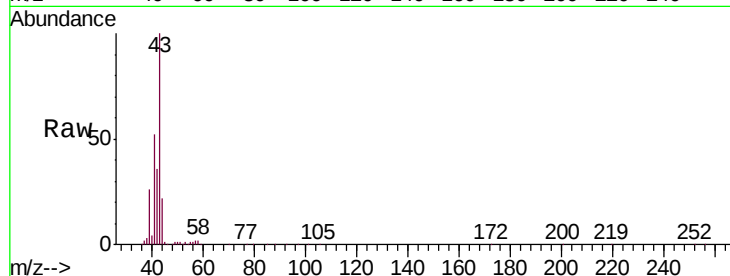
IAS-9-TROPHY-CASE

Tgt Ion: 41 Resp: 228125

Ion Ratio Lower Upper

41 100

42 68.0 54.9 82.3



#10

Heptane

Concen: 0.032 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL034739.D

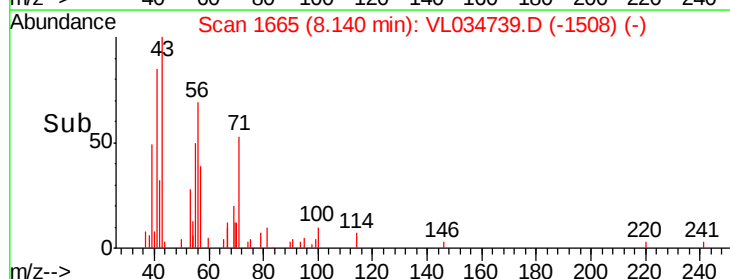
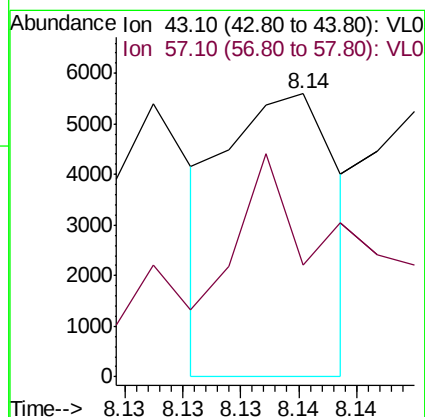
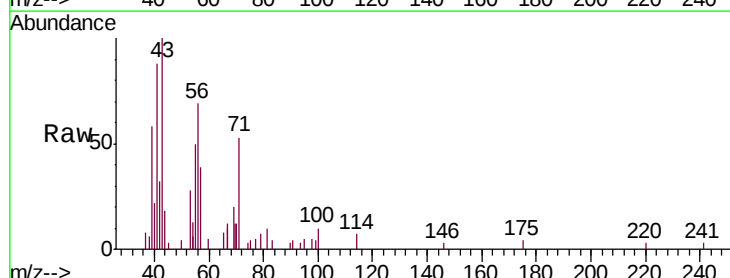
Acq: 28 Feb 2020 16:27

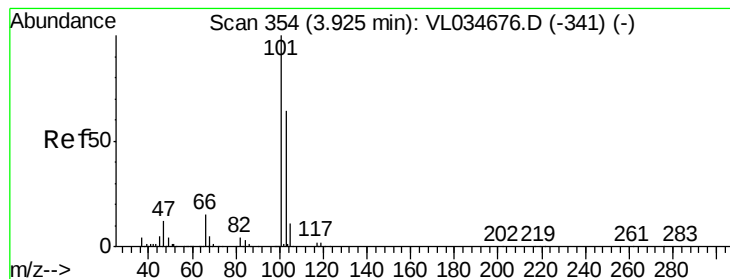
Tgt Ion: 43 Resp: 3758

Ion Ratio Lower Upper

43 100

57 143.6 41.0 61.6#





#11

Trichlorofluoromethane

Concen: 0.258 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.01 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

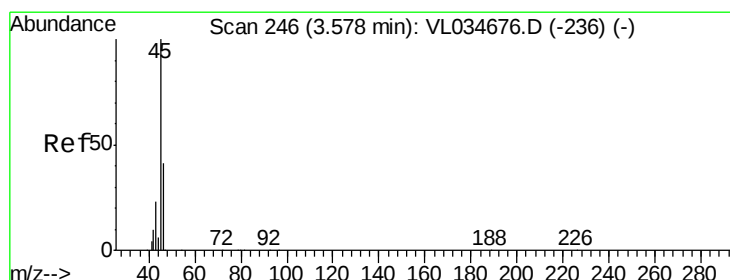
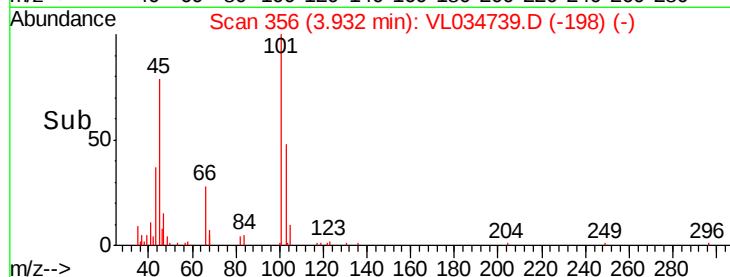
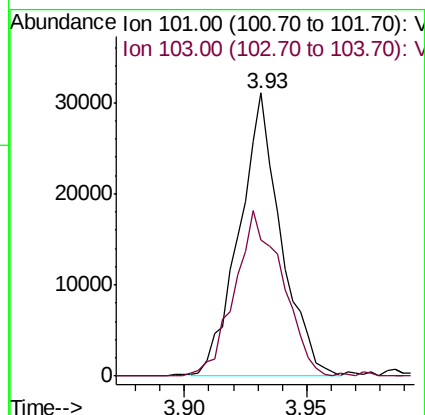
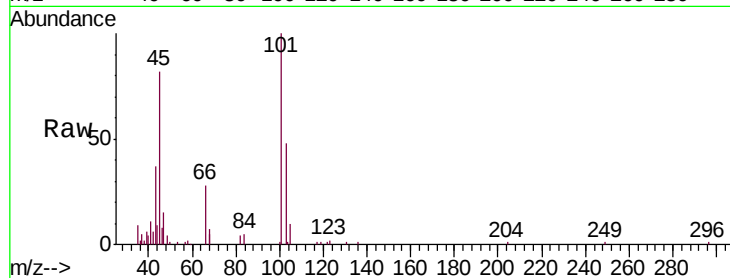
IAS-9-TROPHY-CASE

Tgt Ion:101 Resp: 36670

Ion Ratio Lower Upper

101 100

103 47.1 51.2 76.8#



#13

Ethanol

Concen: 167.904 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL034739.D

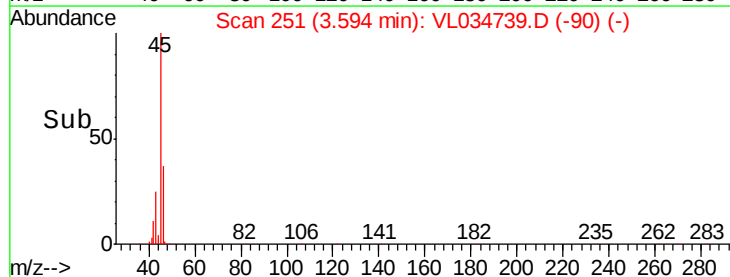
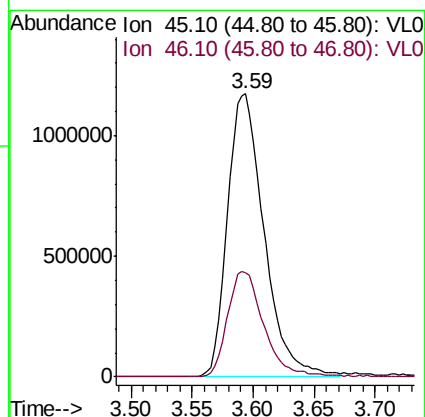
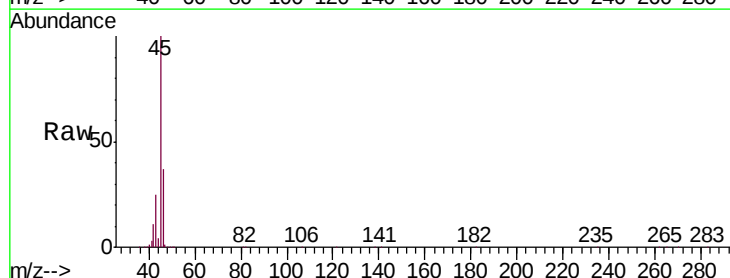
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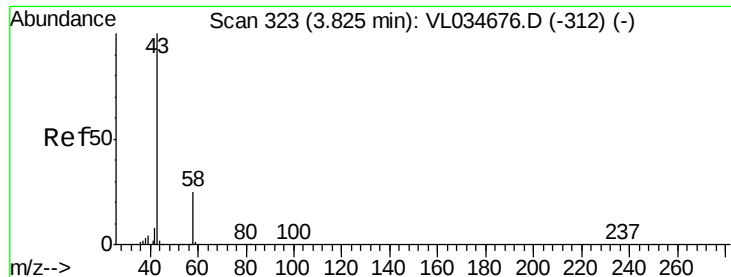
Tgt Ion: 45 Resp: 2458223

Ion Ratio Lower Upper

45 100

46 37.3 15.4 61.4





#15

Acetone

Concen: 8.672 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034739.D

Acq: 28 Feb 2020 16:27

Instrument :

MSVOA_L

ClientSampleId :

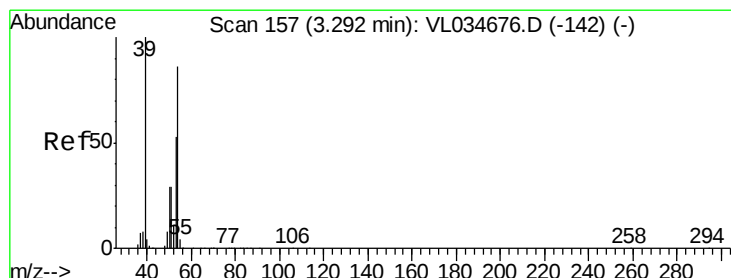
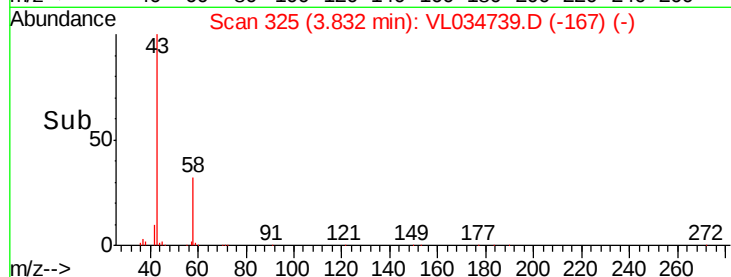
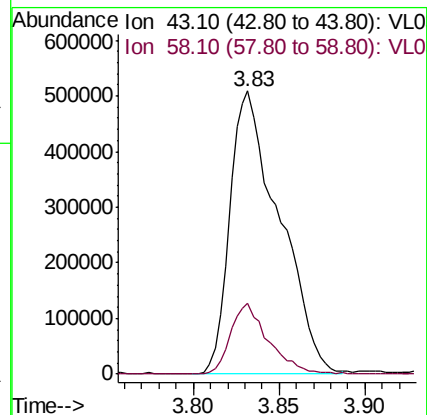
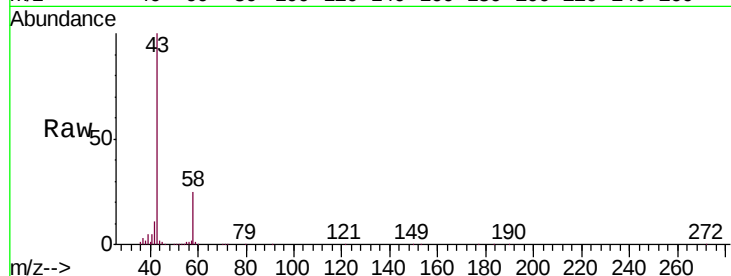
IAS-9-TROPHY-CASE

Tgt Ion: 43 Resp: 1015218

Ion Ratio Lower Upper

43 100

58 19.4 21.4 32.0#



#16

1,3-Butadiene

Concen: 0.281 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.01 min

Lab File: VL034739.D

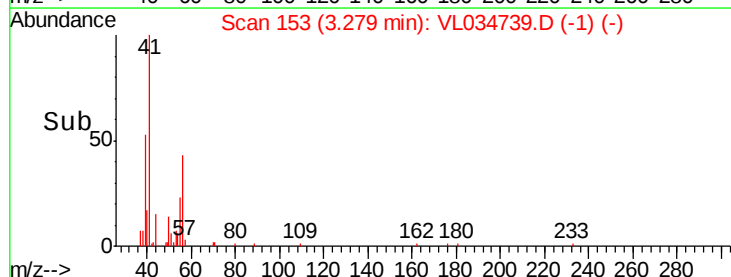
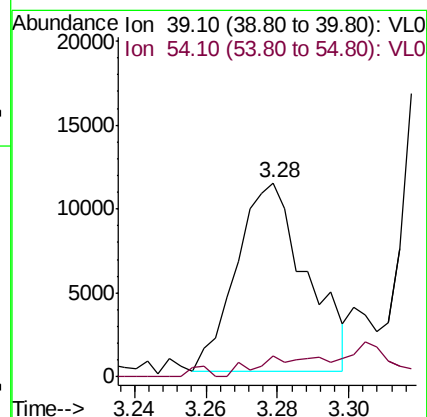
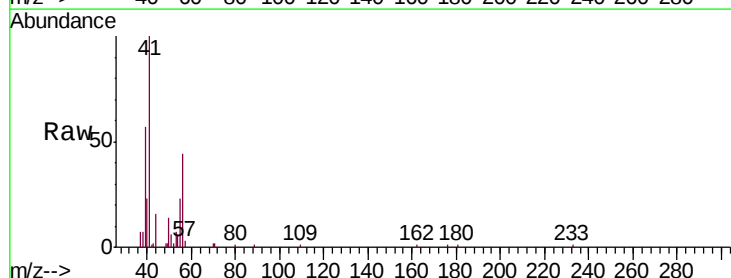
Acq: 28 Feb 2020 16:27

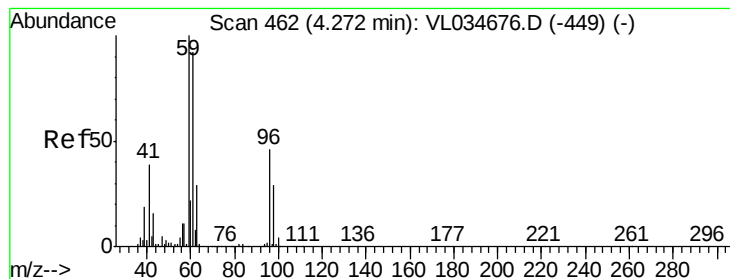
Tgt Ion: 39 Resp: 15206

Ion Ratio Lower Upper

39 100

54 23.5 67.0 100.6#



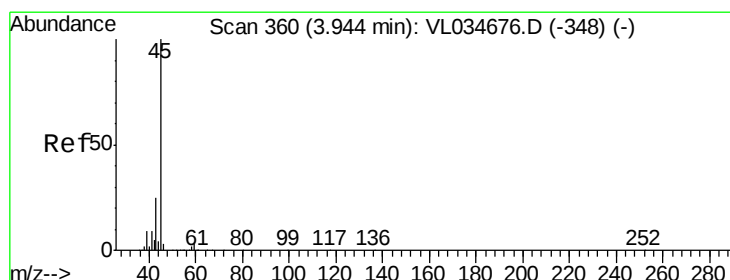
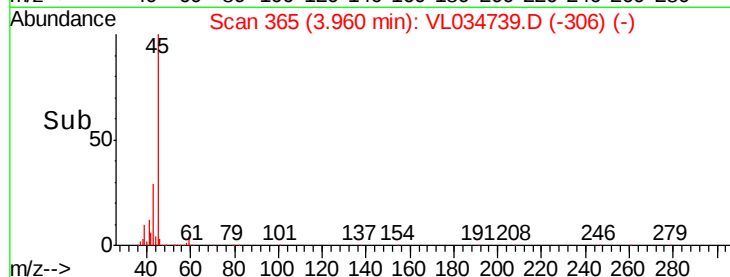
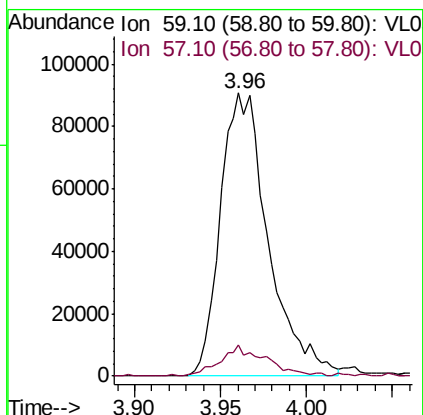
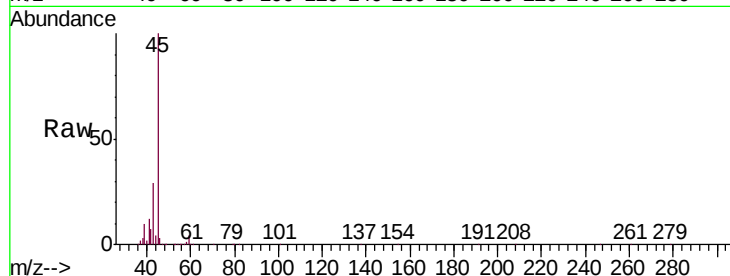


#17

tert-Butyl alcohol
 Concen: 1.956 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.31 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
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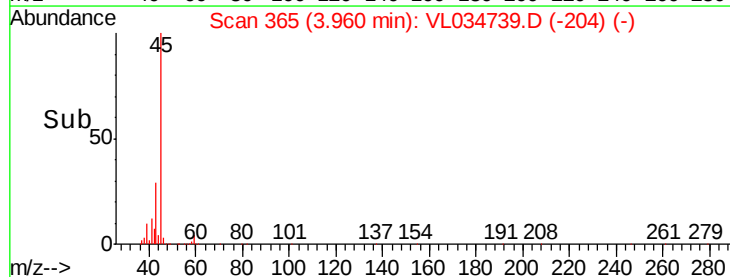
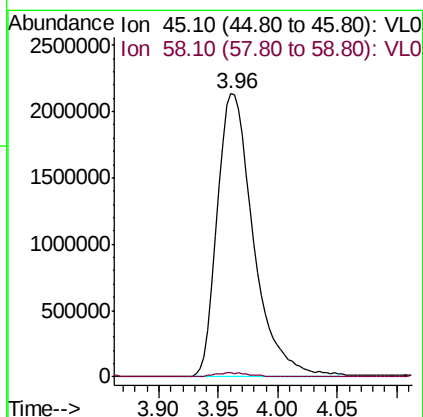
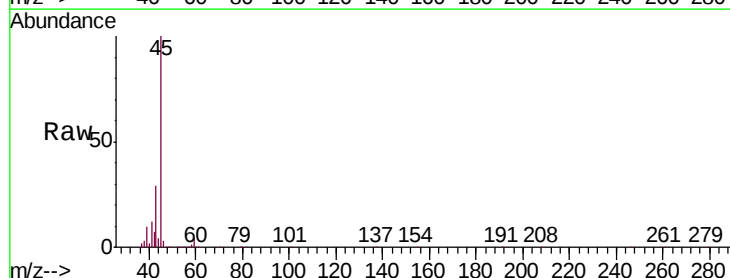
Tgt Ion: 59 Resp: 175509
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.8 13.2

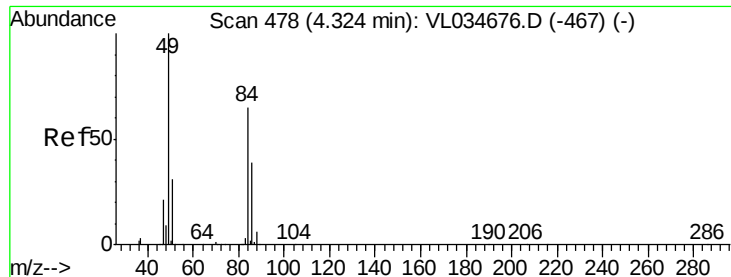


#19

Isopropyl Alcohol
 Concen: 64.503 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Tgt Ion: 45 Resp: 4497823
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.8 2.6#

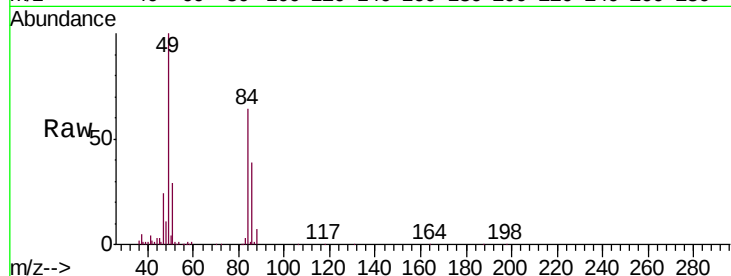




#20
Methylene Chloride
Concen: 2.849 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Instrument :
MSVOA_L
ClientSampleId :
IAS-9-TROPHY-CASE

Tgt Ion:	84	Resp:	124058
Ion	Ratio	Lower	Upper
84	100		
49	154.5	122.8	184.2
51	46.3	38.6	58.0
86	61.2	47.7	71.5



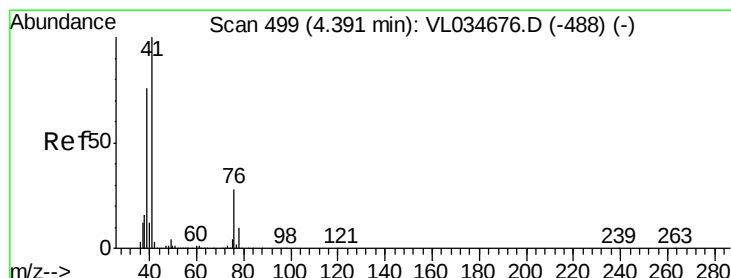
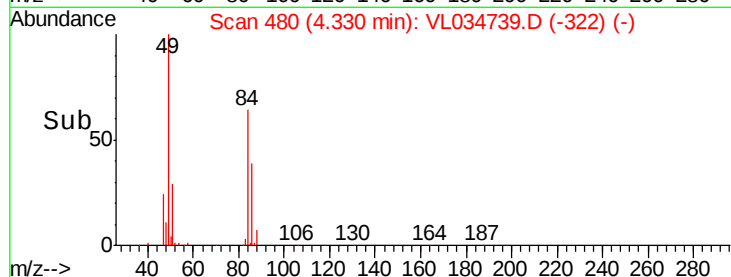
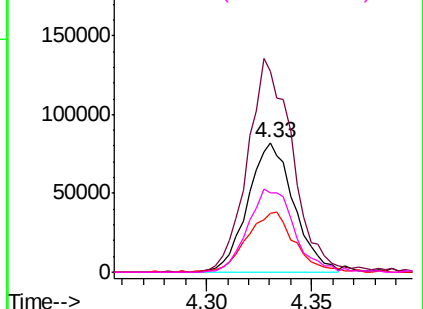
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

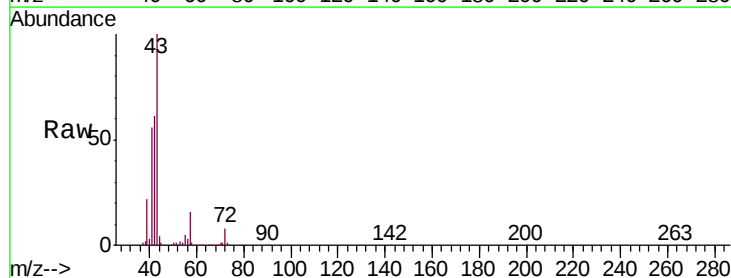
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 11.287 ppbv
RT: 4.11 min Scan# 412
Delta R.T. -0.28 min
Lab File: VL034739.D
Acq: 28 Feb 2020 16:27

Tgt Ion:	41	Resp:	874196
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.8	34.2#
39	38.3	61.7	92.5#

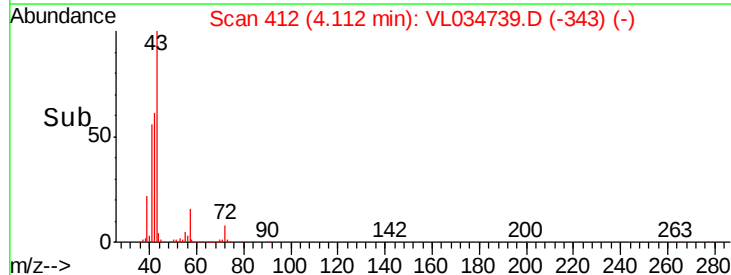
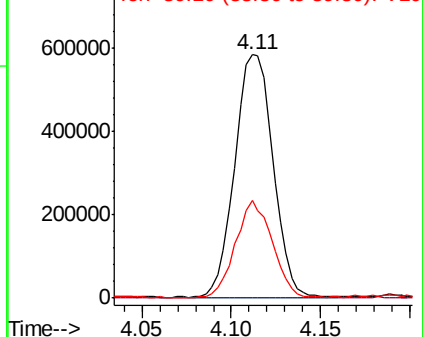


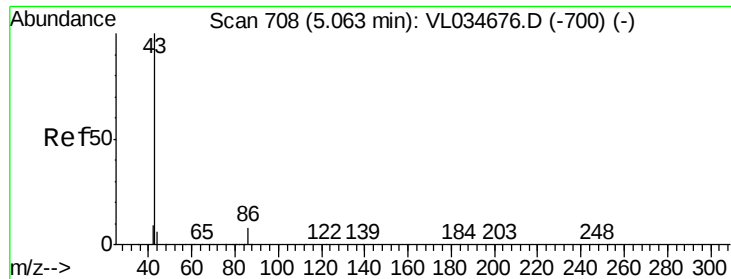
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0

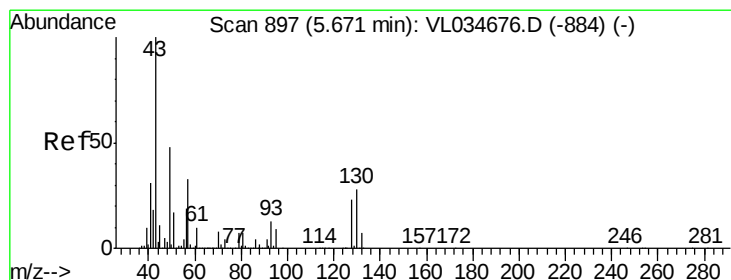
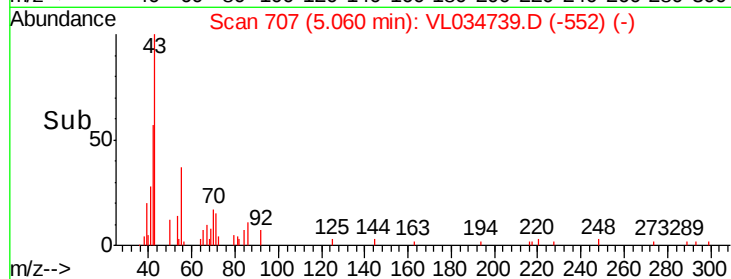
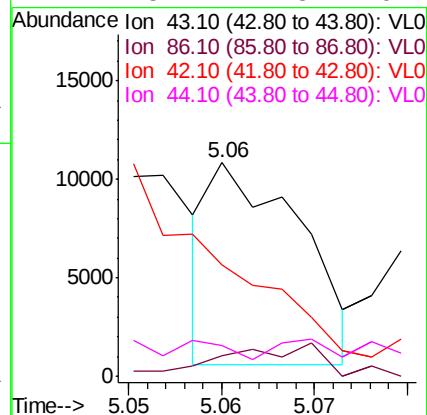
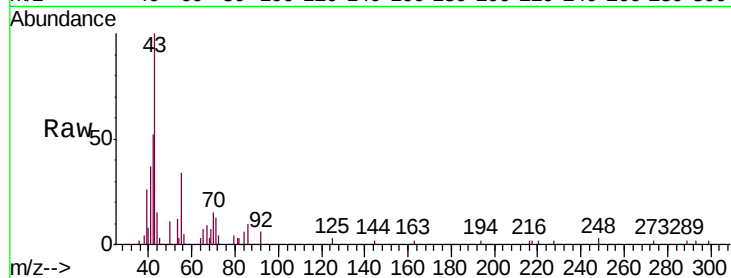




#23
 Vinyl Acetate
 Concen: 0.044 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-9-TROPHY-CASE

Tgt Ion:	43	Resp:	6969
Ion	Ratio	Lower	Upper
43	100		
86	14.0	6.0	9.0#
42	59.1	8.0	12.0#
44	8.4	4.5	6.7#



#25
 Ethyl Acetate
 Concen: 0.434 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.02 min
 Lab File: VL034739.D
 Acq: 28 Feb 2020 16:27

Tgt Ion:	43	Resp:	89903
Ion	Ratio	Lower	Upper
43	100		
45	5.3	8.2	12.4#
61	2.7	7.8	11.6#
70	3.1	6.1	9.1#

