

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036539.D
 Acq On : 29 Mar 2021 14:40
 Operator : SY/AP
 Sample : M1760-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-CAFETERIA

Manual Integrations
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MMDadoda
 3/30/2021 7:44:04 PM

Quant Time: Mar 30 11:19:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1529874	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3441916	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3015473	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2266399	9.43	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	39168	0.157	ppbv	100
3) Chlorodifluoromethane	2.98	51	103069	0.361	ppbv #	84
4) Chloromethane	3.14	50	49936	0.495	ppbv #	82
9) Propene	3.02	41	56985	0.625	ppbv	88
11) Trichlorofluoromethane	3.95	101	52761	0.207	ppbv	85
13) Ethanol	3.61	45	687493m	63.356	ppbv	
15) Acetone	3.85	43	837089	5.559	ppbv	99
19) Isopropyl Alcohol	3.98	45	340617m	4.112	ppbv	
20) Methylene Chloride	4.34	84	686353	9.736	ppbv	96
26) Hexane	5.68	57	1455868	8.764	ppbv #	47
34) 2-Butanone	5.25	43	64084m	0.381	ppbv	
35) Carbon Tetrachloride	7.01	117	17095m	0.065	ppbv	
36) Benzene	6.89	78	62549m	0.197	ppbv	
53) Toluene	9.80	91	728641	2.155	ppbv	99
59) m/p-Xylene	12.96	91	66710m	0.174	ppbv	

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

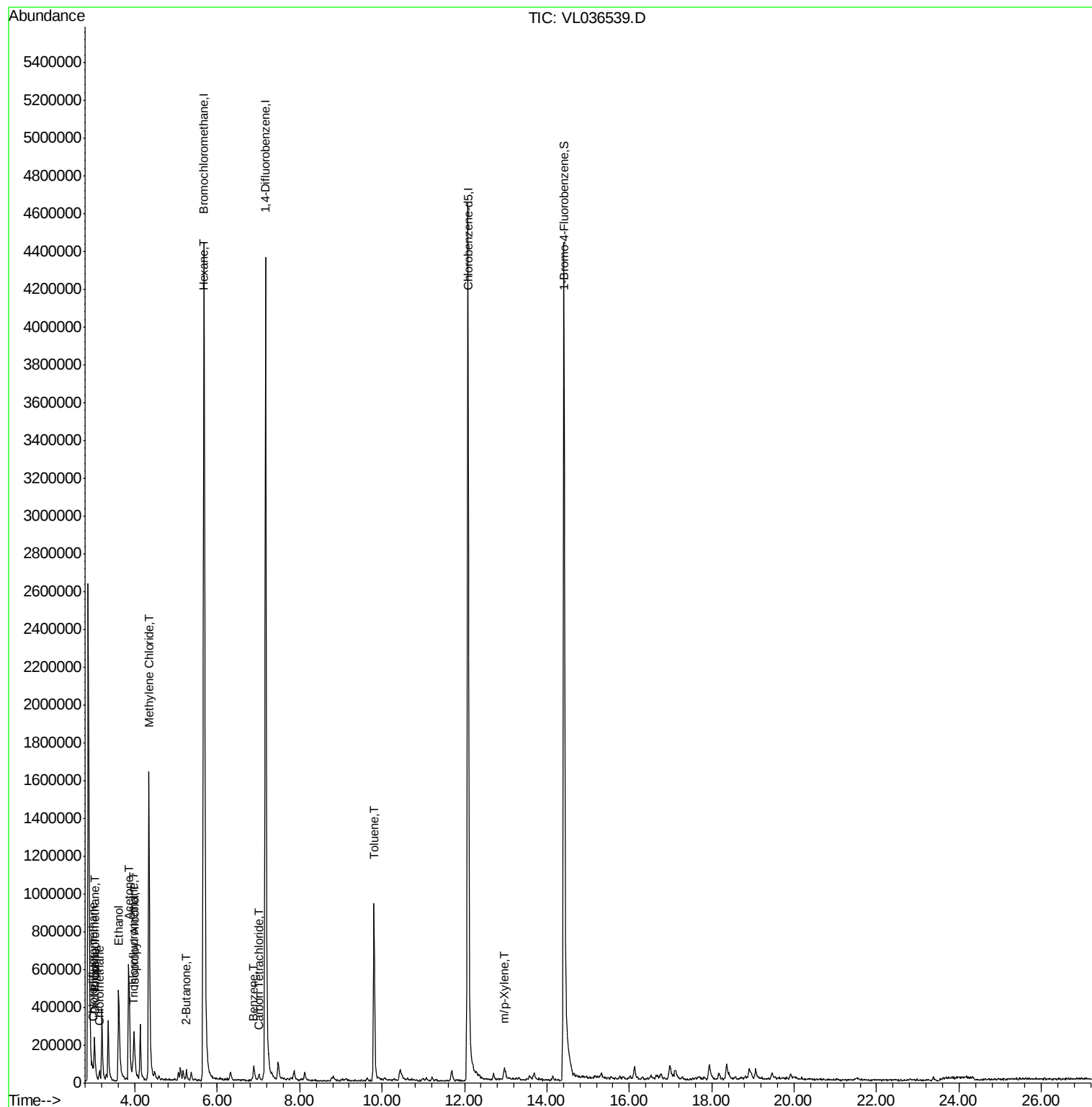
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036539.D
Acq On : 29 Mar 2021 14:40
Operator : SY/AP
Sample : M1760-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

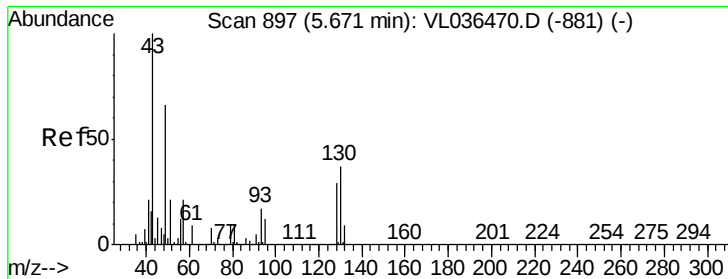
Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

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Quant Time: Mar 30 11:19:12 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tot Ion: 49 Resp: 1529874

Ion Ratio Lower Upper

49 100

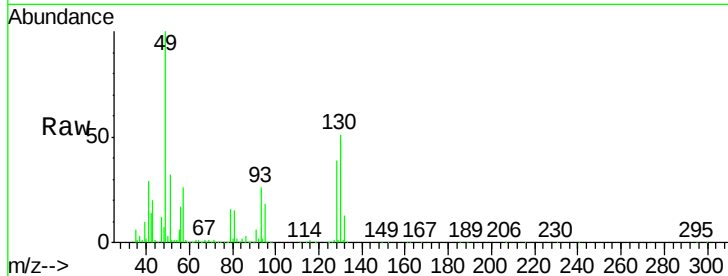
128 42.7 23.5 70.6

130 55.6 29.1 87.4

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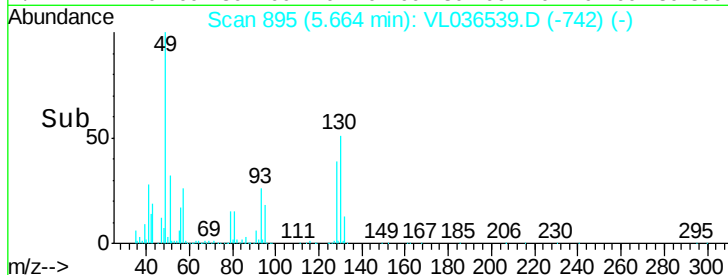
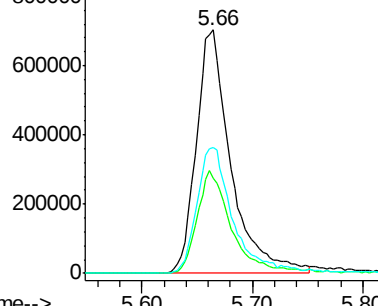
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.157 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036539.D

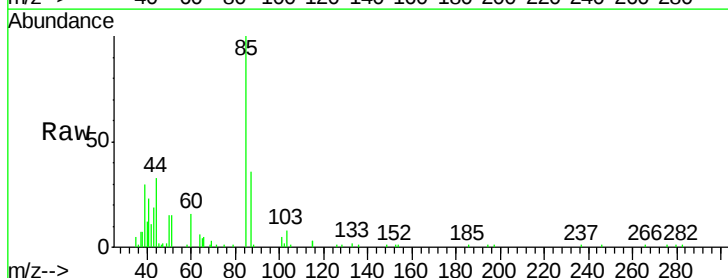
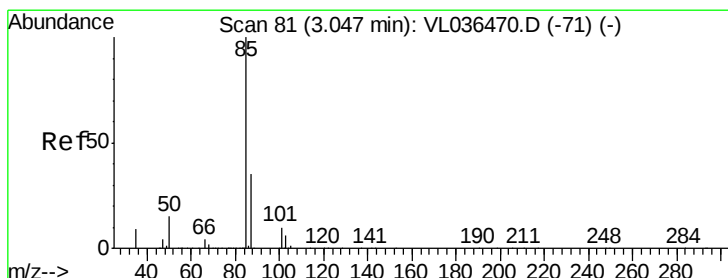
Acq: 29 Mar 2021 14:40

Tgt Ion: 85 Resp: 39168

Ion Ratio Lower Upper

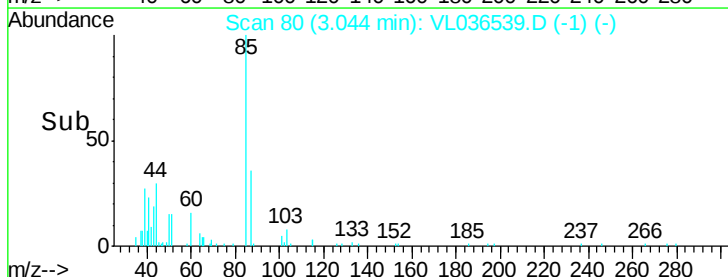
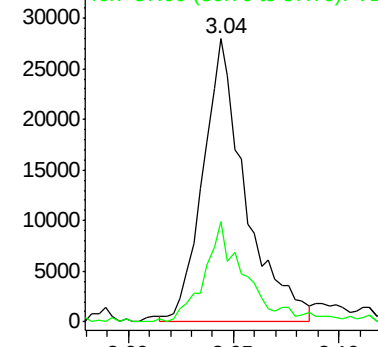
85 100

87 35.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.361 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tot Ion: 51 Resp: 103069

Ion Ratio Lower Upper

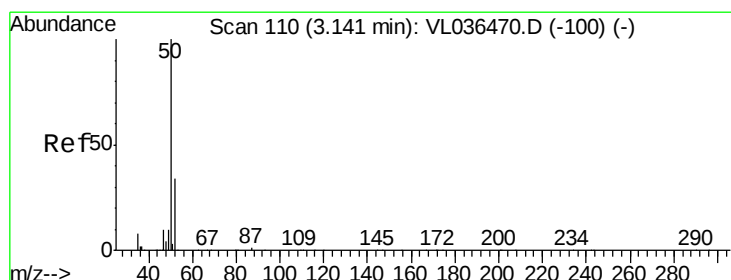
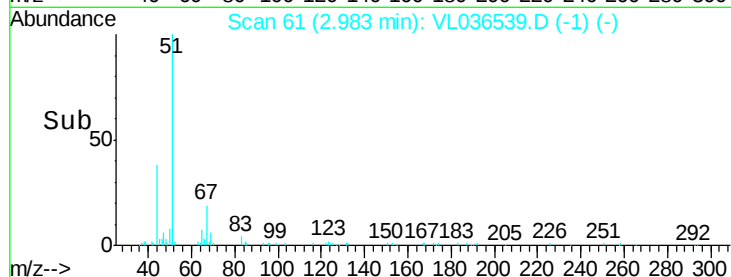
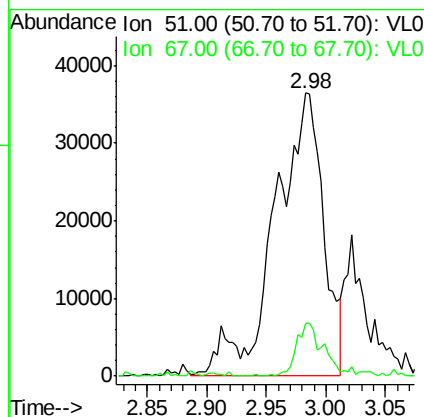
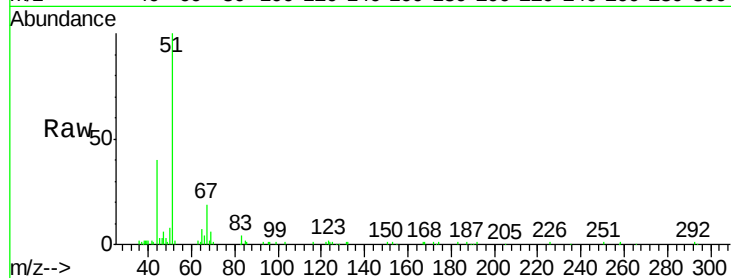
51 100

67 11.5 14.7 22.1#

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#4

Chloromethane

Concen: 0.495 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036539.D

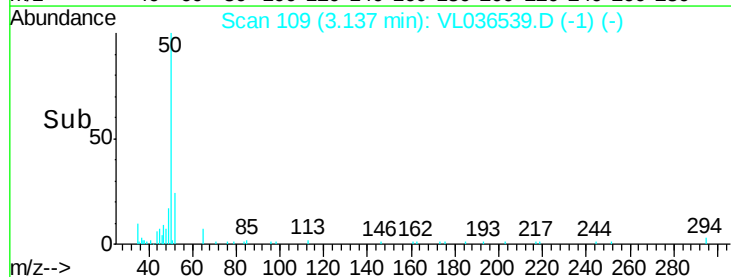
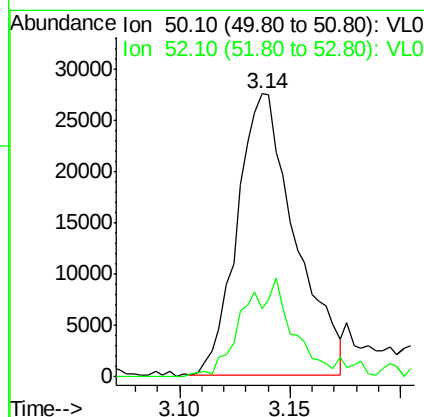
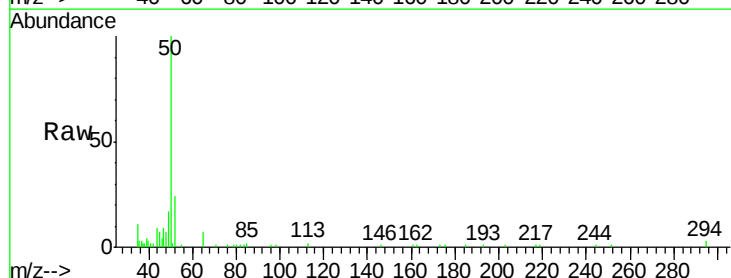
Acq: 29 Mar 2021 14:40

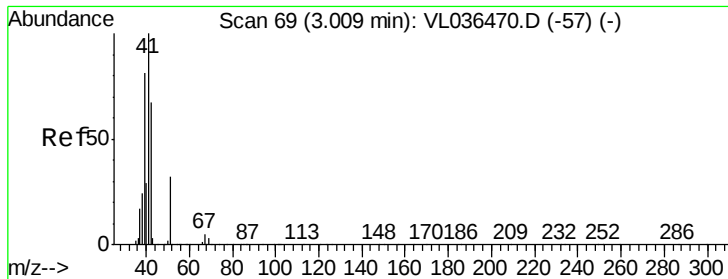
Tgt Ion: 50 Resp: 49936

Ion Ratio Lower Upper

50 100

52 23.4 27.0 40.6#





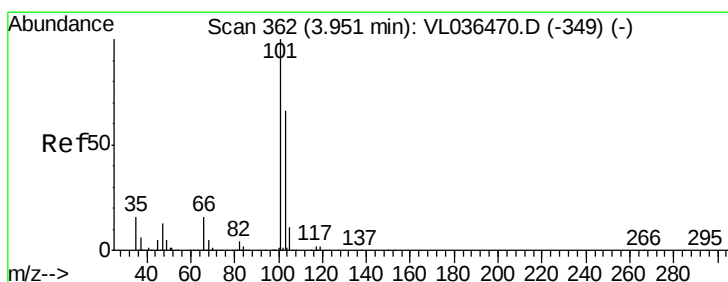
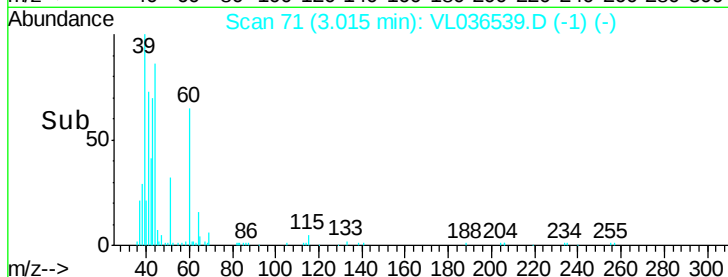
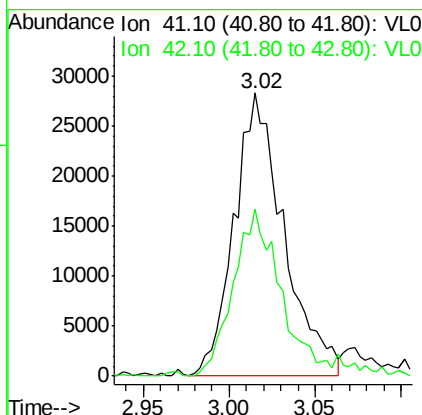
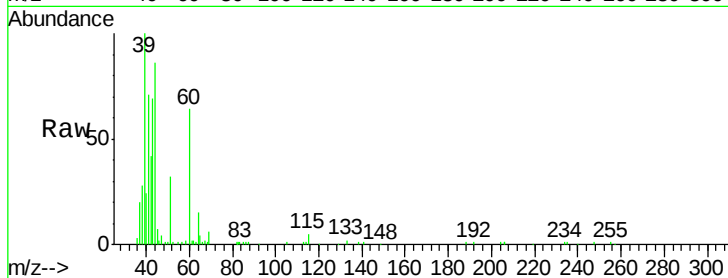
#9
 Propene
 Concen: 0.625 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-CAFETERIA

Tot Ion: 41 Resp: 56985
 Ion Ratio Lower Upper
 41 100
 42 61.1 57.0 85.4

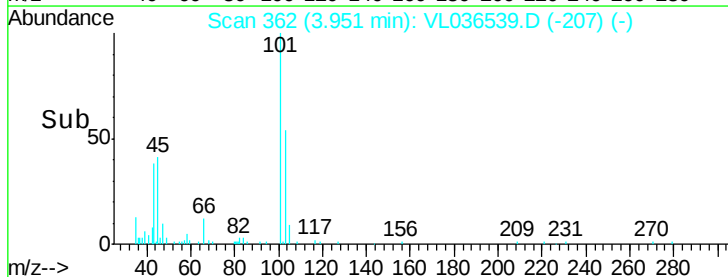
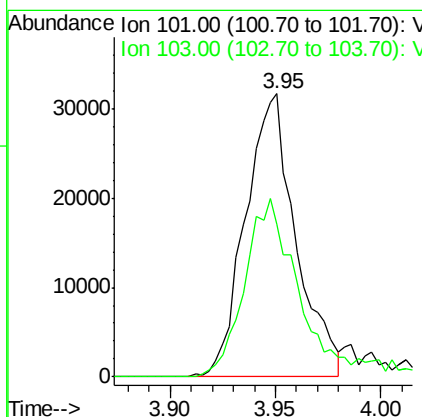
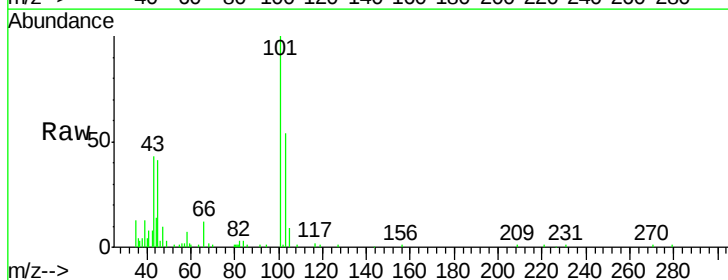
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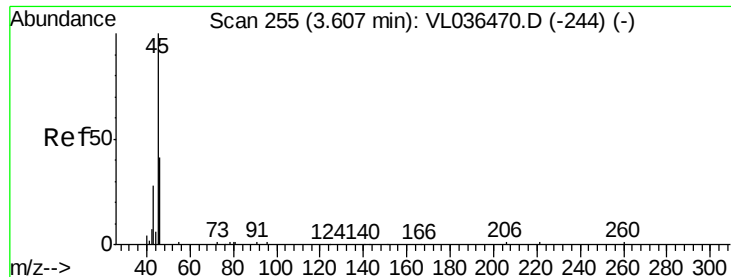
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#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

Tgt Ion: 101 Resp: 52761
 Ion Ratio Lower Upper
 101 100
 103 53.8 52.5 78.7





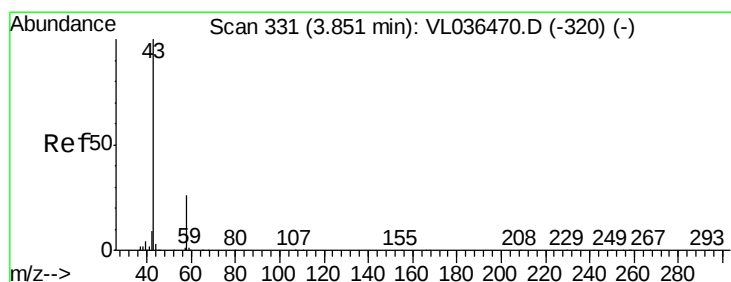
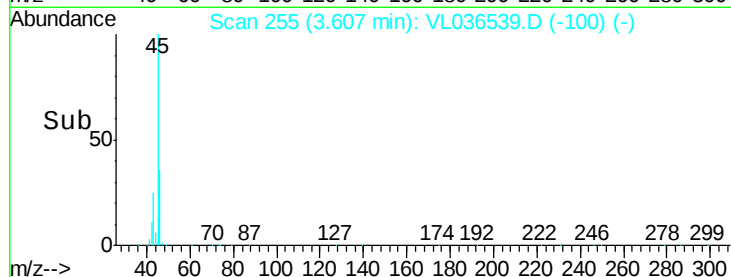
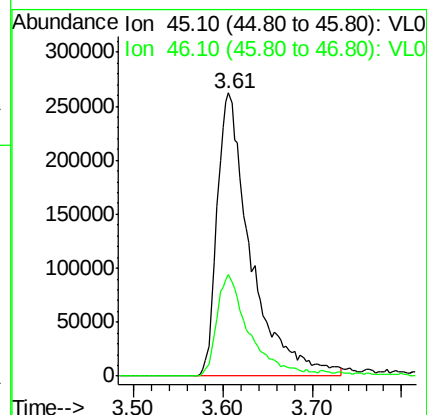
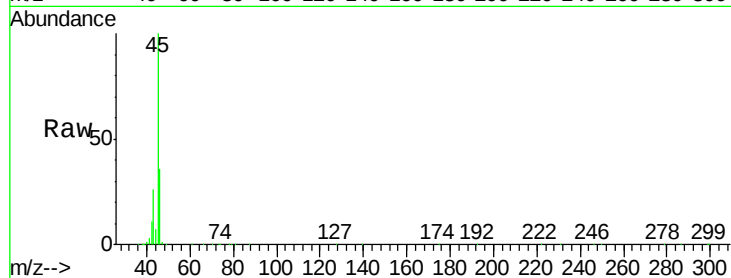
#13
Ethanol
Concen: 63.356 ppbv m
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

Tot Ion: 45 Resp: 687493
Ion Ratio Lower Upper
45 100
46 34.2 16.6 66.2

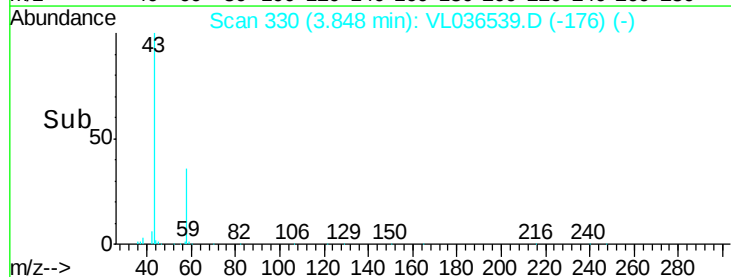
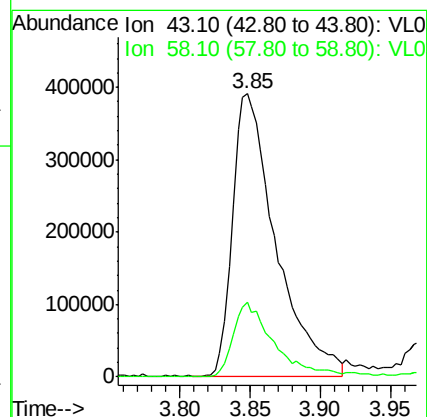
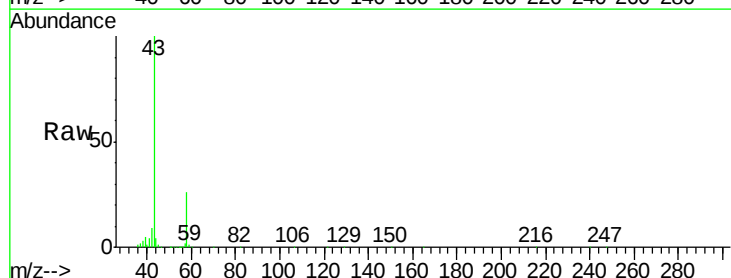
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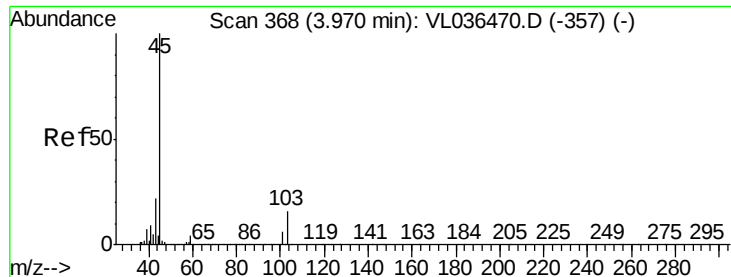
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#15
Acetone
Concen: 5.559 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 43 Resp: 837089
Ion Ratio Lower Upper
43 100
58 25.8 21.2 31.8





#19

Isopropyl Alcohol

Concen: 4.112 ppbv m

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

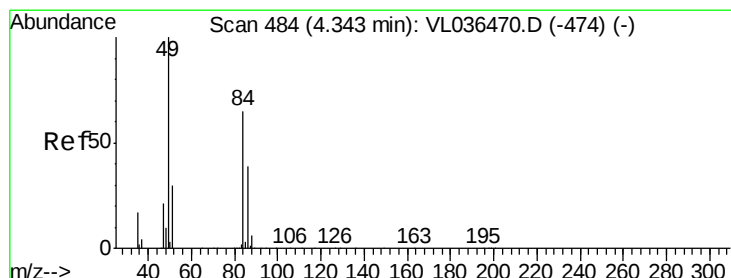
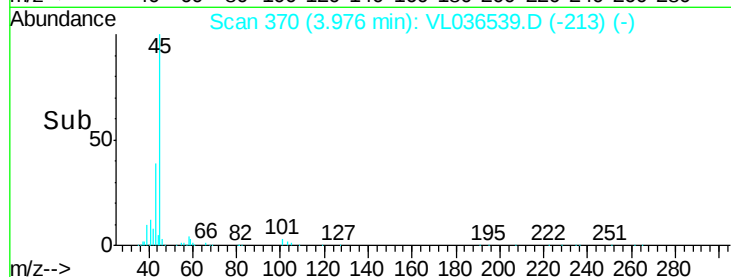
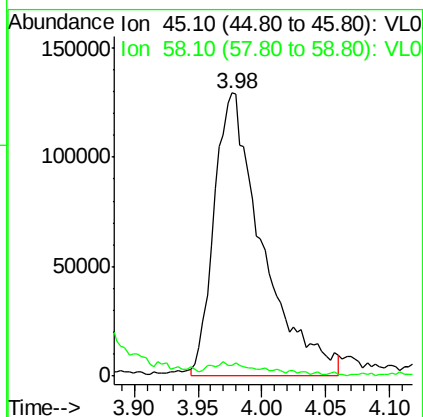
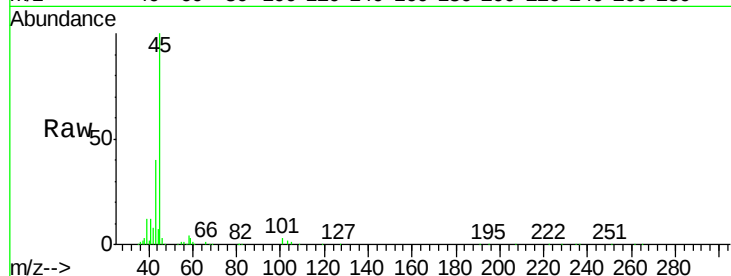
Tot Ion: 45 Resp: 340617
Ion Ratio Lower Upper

45 100

58 5.4 2.9 4.3#

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#20

Methylene Chloride

Concen: 9.736 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

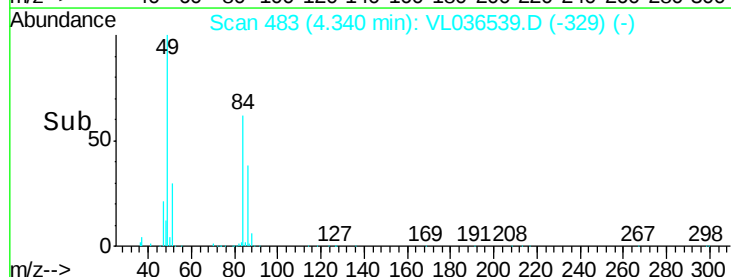
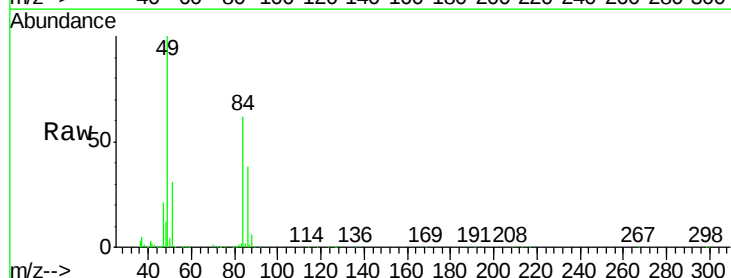
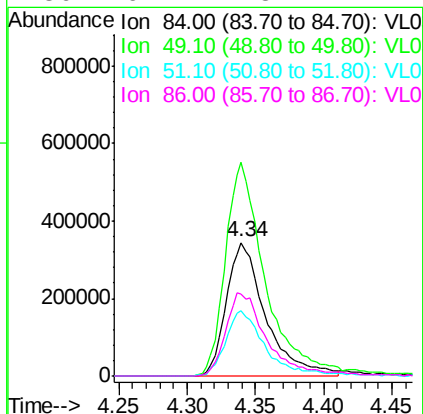
Tgt Ion: 84 Resp: 686353
Ion Ratio Lower Upper

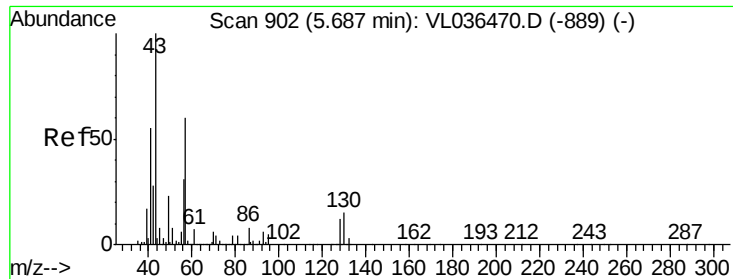
84 100

49 160.0 122.9 184.3

51 48.9 36.9 55.3

86 61.2 48.2 72.4





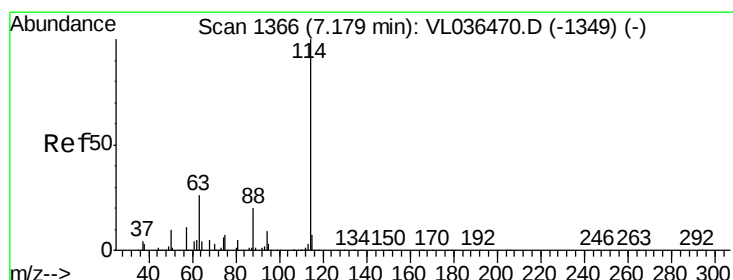
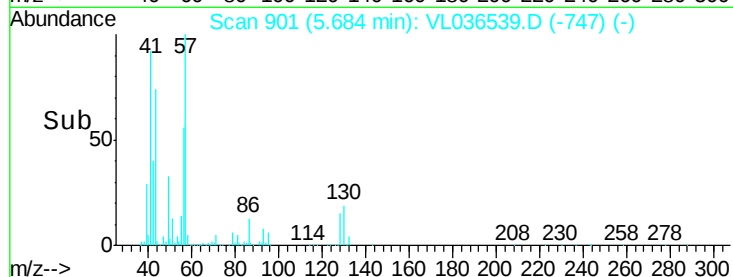
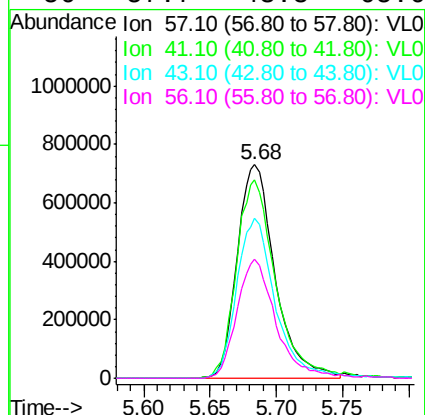
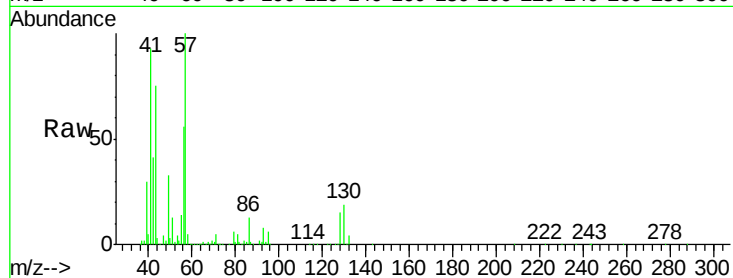
#26
Hexane
Concen: 8.764 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.6	77.2	115.8
43	77.1	173.8	260.6#
56	57.7	43.8	65.6

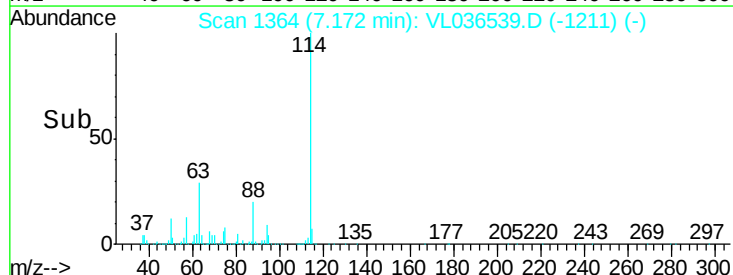
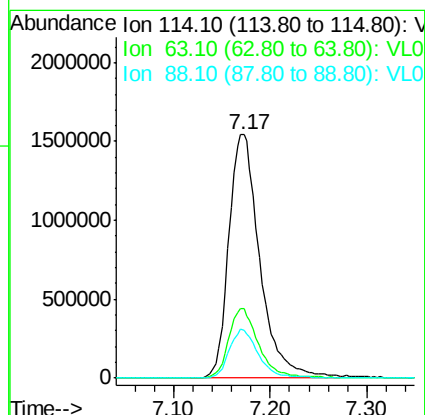
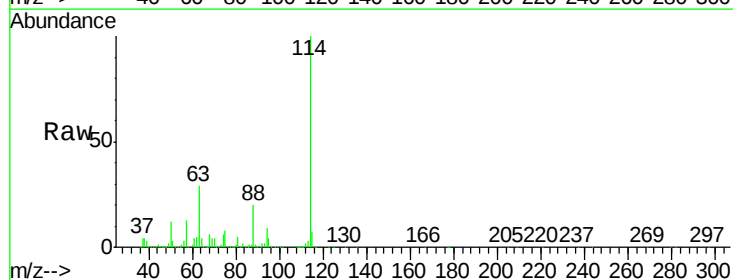
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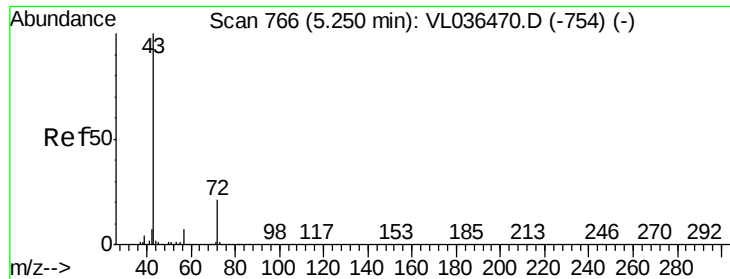
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.2	15.4	23.0





#34

2-Butanone

Concen: 0.381 ppbv m

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tot Ion: 43 Resp: 64084

Ion Ratio Lower Upper

43 100

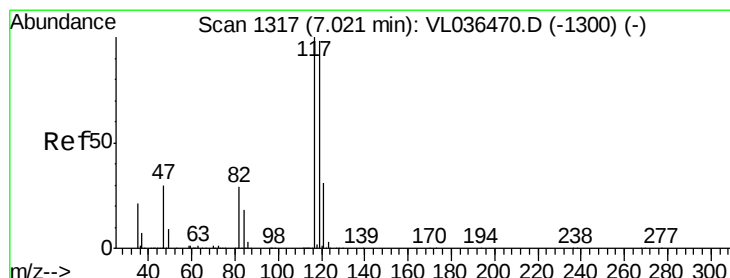
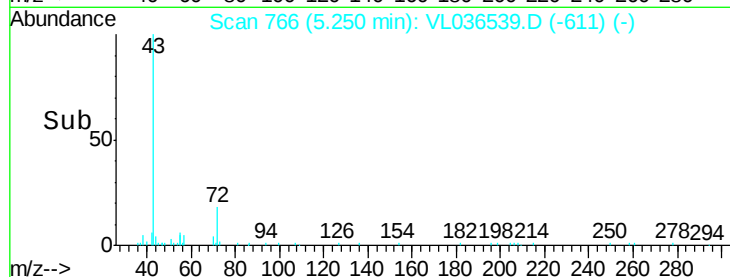
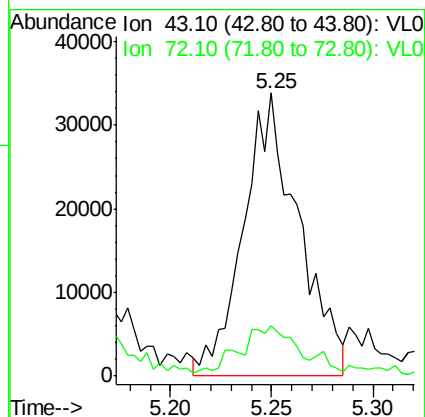
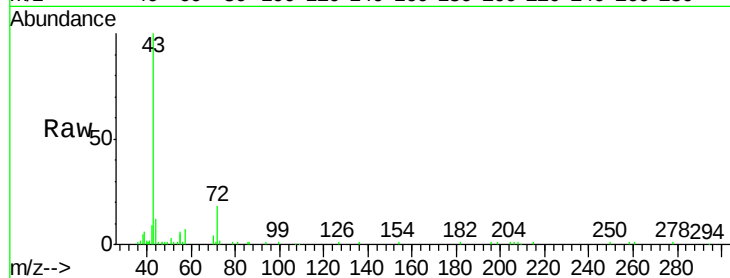
72 24.2 17.0 25.6

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

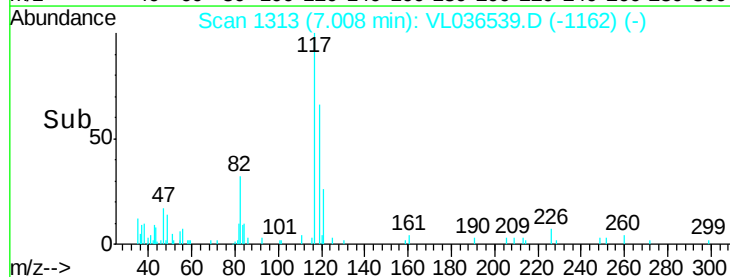
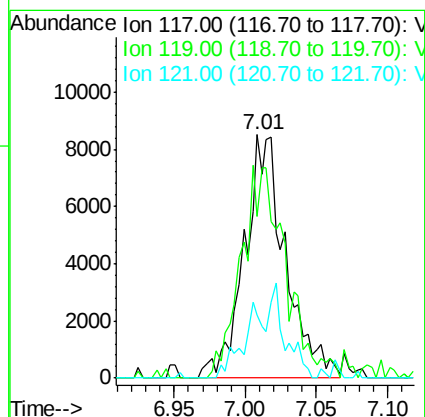
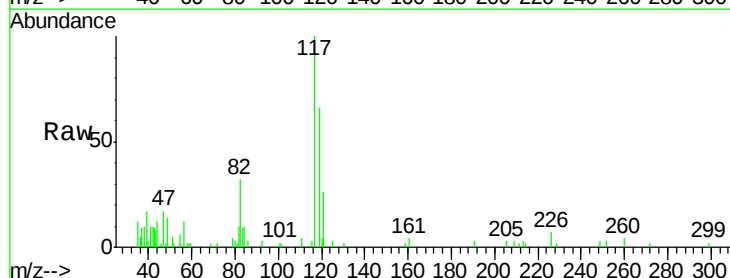
Tgt Ion: 117 Resp: 17095

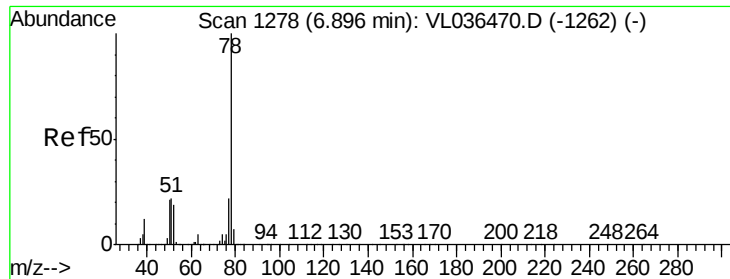
Ion Ratio Lower Upper

117 100

119 66.5 78.2 117.2#

121 26.0 24.5 36.7





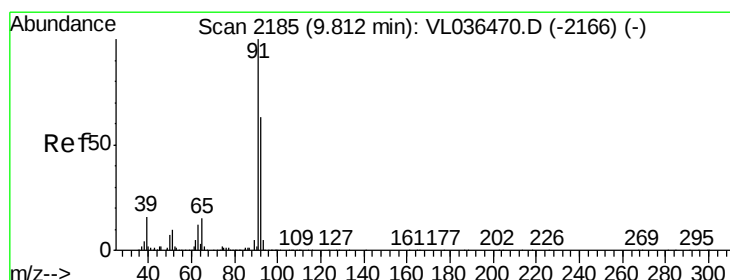
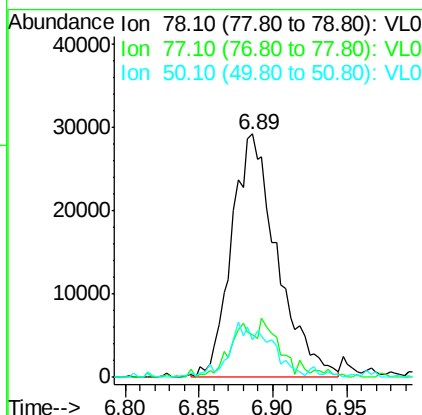
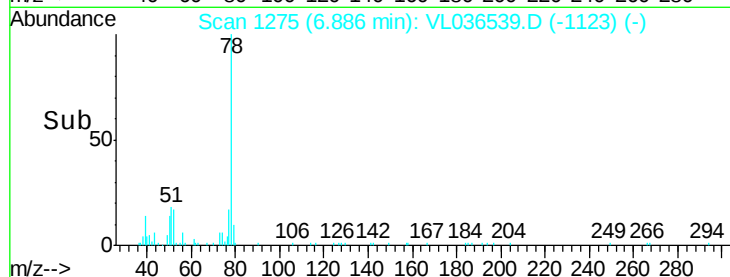
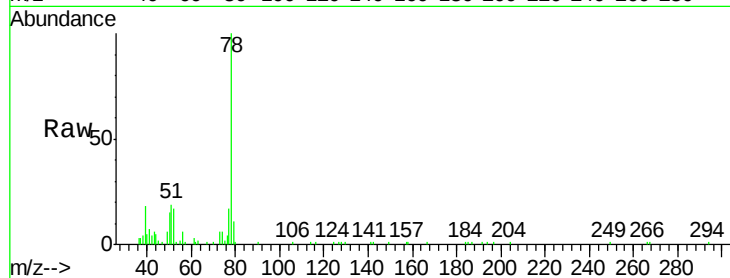
#36
Benzene
Concen: 0.197 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-CAFETERIA

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.3	18.0	27.0#
50	15.3	16.5	24.7#

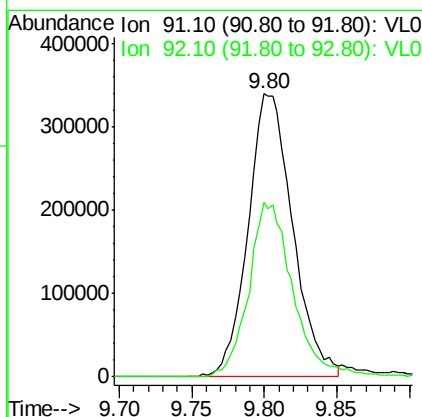
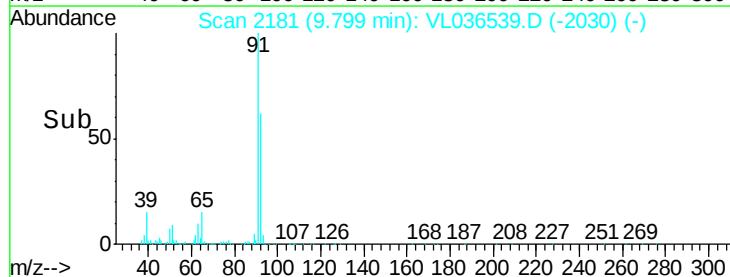
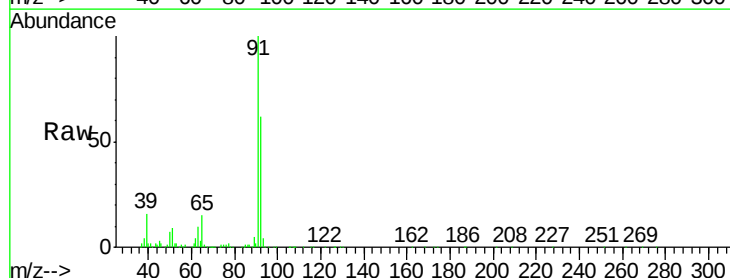
Manual Integrations
APPROVED

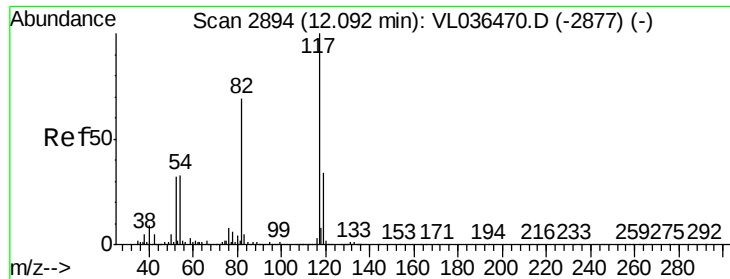
MMDadoda
3/30/2021 7:44:04 PM



#53
Toluene
Concen: 2.155 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.8	73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tot Ion:117 Resp: 3015473

Ion Ratio Lower Upper

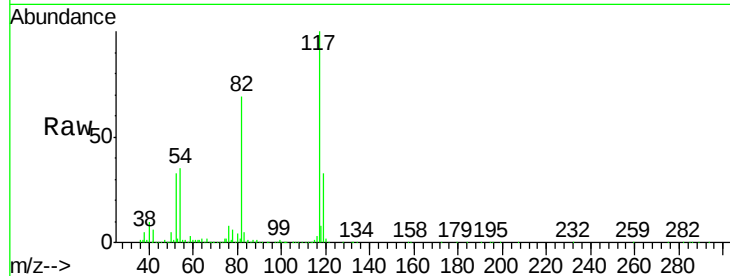
117 100

82 71.0 57.4 86.0

119 33.7 47.4 71.0#

Manual Integrations
APPROVED

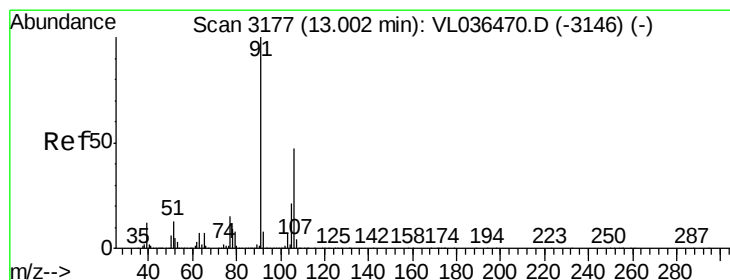
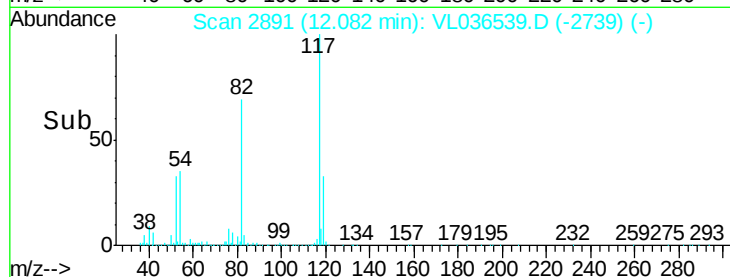
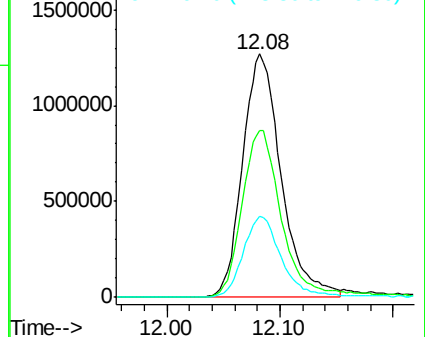
MMDadoda
3/30/2021 7:44:04 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.174 ppbv m

RT: 12.96 min Scan# 3165

Delta R.T. -0.04 min

Lab File: VL036539.D

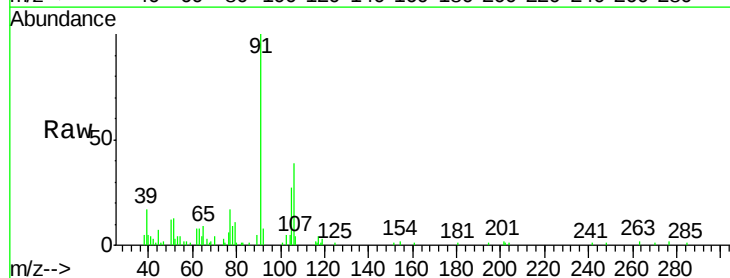
Acq: 29 Mar 2021 14:40

Tgt Ion: 91 Resp: 66710

Ion Ratio Lower Upper

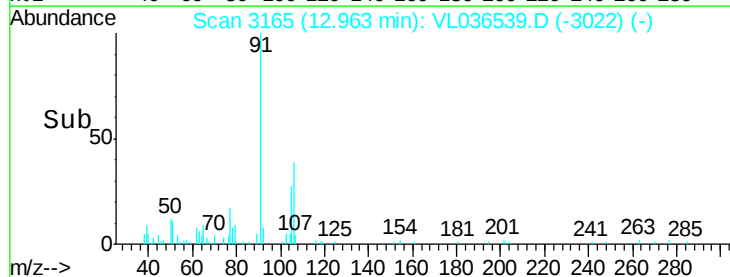
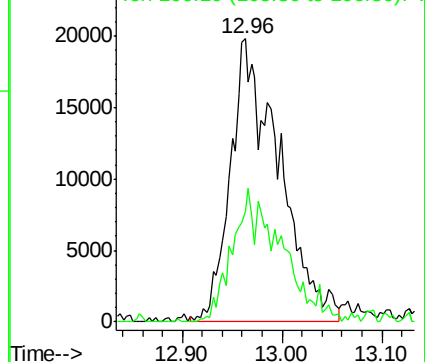
91 100

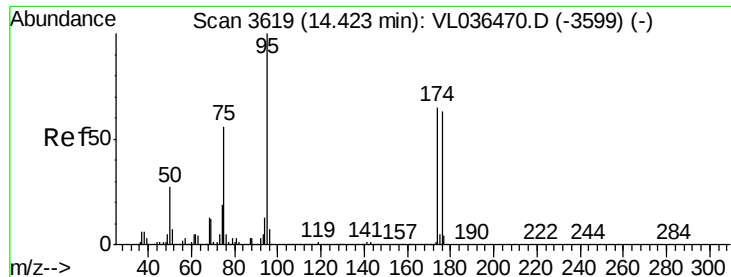
106 0.0 35.3 52.9#



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: 9.430 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-CAFETERIA

Tot Ion: 95 Resp: 2266399

Ion Ratio Lower Upper

95 100

174 69.6 51.0 76.6

175 5.3 3.9 5.9

Manual Integrations

APPROVED

MMDadoda

3/30/2021 7:44:04 PM

