

Data File : VL033538.D
Acq On : 4 Apr 2019 18:22
Operator : SY/AP
Sample : K2096-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A-2

Quant Time: Apr 05 01:58:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	966311	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1903488	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2247872	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1796973 10.20 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	127921	0.908	ppbv	98
3) Chlorodifluoromethane	2.99	51	298266	2.681	ppbv #	64
4) Chloromethane	3.17	50	29838	0.507	ppbv	100
9) Propene	3.05	41	164412	3.519	ppbv #	61
10) Heptane	8.25	43	156172	1.251	ppbv	99
11) Trichlorofluoromethane	4.00	101	42520	0.245	ppbv	98
13) Ethanol	3.65	45	2179812	180.305	ppbv	65
15) Acetone	3.90	43	1616720	13.915	ppbv	97
16) 1,3-Butadiene	3.34	39	6009	0.130	ppbv #	13
17) tert-Butyl alcohol	4.37	59	22826	1.068	ppbv #	73
19) Isopropyl Alcohol	4.04	45	530620	7.220	ppbv #	98
20) Methylene Chloride	4.41	84	54670	1.108	ppbv	93
23) Vinyl Acetate	5.14	43	26046	0.157	ppbv #	70
25) Ethyl Acetate	5.77	43	182741	0.848	ppbv #	97
26) Hexane	5.78	57	109003	1.137	ppbv #	75
30) Cyclohexane	7.24	84	4168	0.055	ppbv #	1
31) cis-1,2-Dichloroethene	5.77	61	12663	0.133	ppbv #	30
34) 2-Butanone	5.34	43	49012	0.429	ppbv	100
36) Benzene	7.00	78	13892	0.087	ppbv	95
39) 1,2-Dichloropropane	7.29	63	501986	8.023	ppbv #	24
53) Toluene	9.94	91	353293	1.904	ppbv	100
79) Naphthalene	22.41	128	24872	0.097	ppbv #	89

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

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
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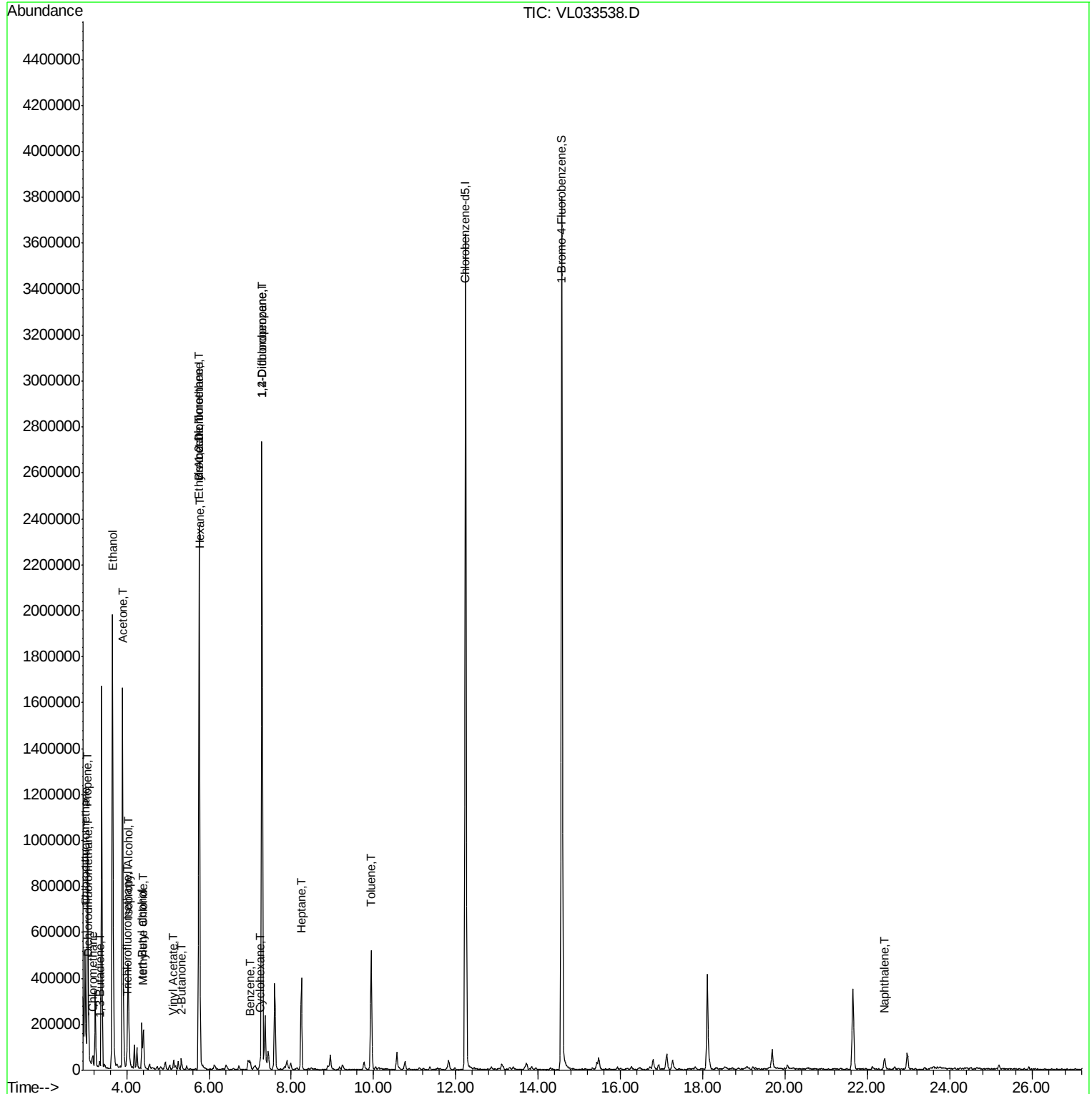
Quant Time: Apr 05 01:58:06 2019

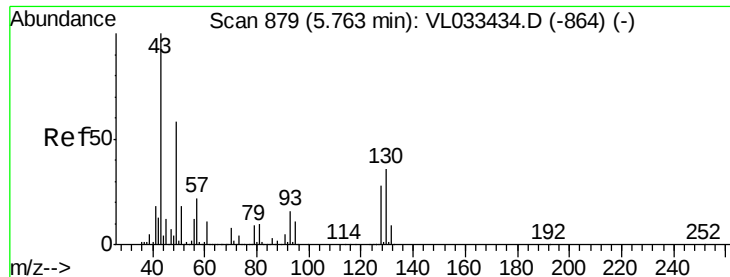
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL032519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019

QLast Update : Tue Mar 26 16:00:50 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033538.D

Acq: 4 Apr 2019 18:22

Instrument :

MSVOA_L

ClientSampled :

A-2

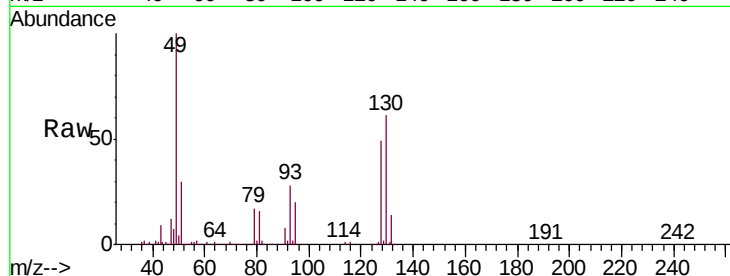
Tgt Ion: 49 Resp: 966311

Ion Ratio Lower Upper

49 100

128 48.8 24.0 72.0

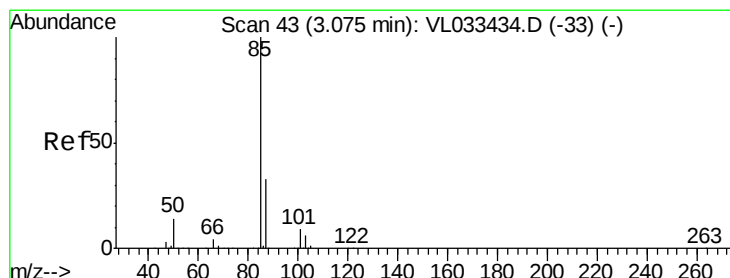
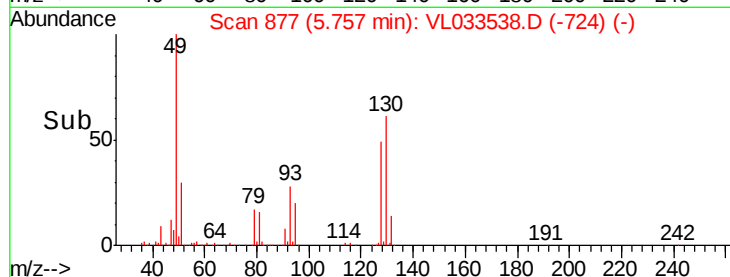
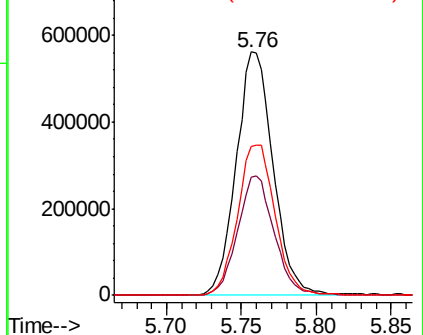
130 62.9 31.2 93.6



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: 0.908 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033538.D

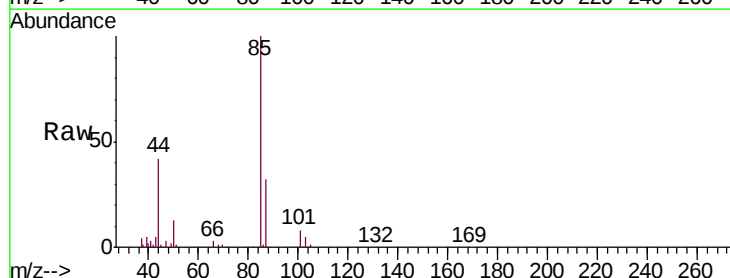
Acq: 4 Apr 2019 18:22

Tgt Ion: 85 Resp: 127921

Ion Ratio Lower Upper

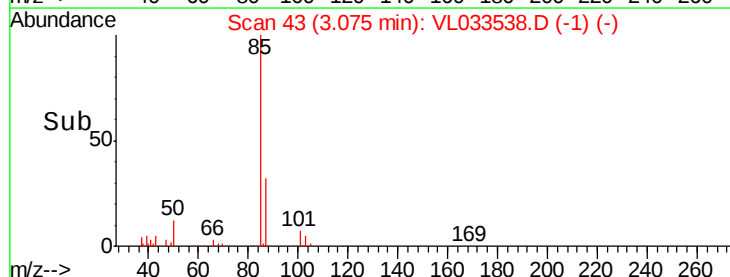
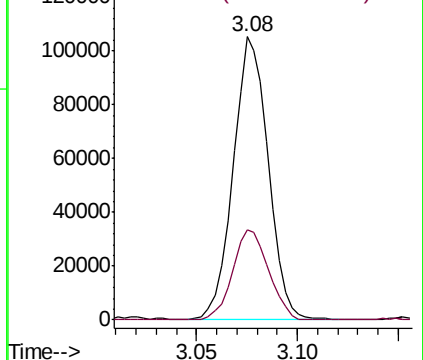
85 100

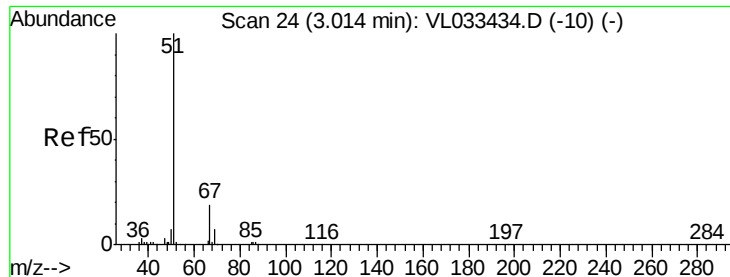
87 32.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

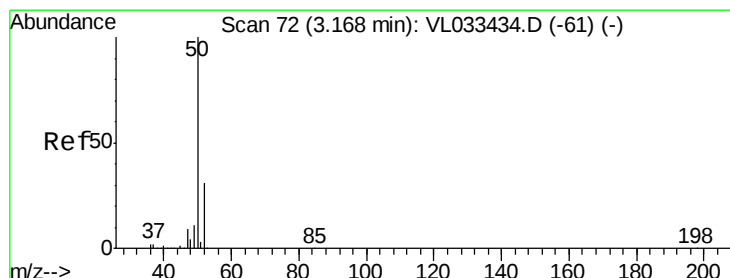
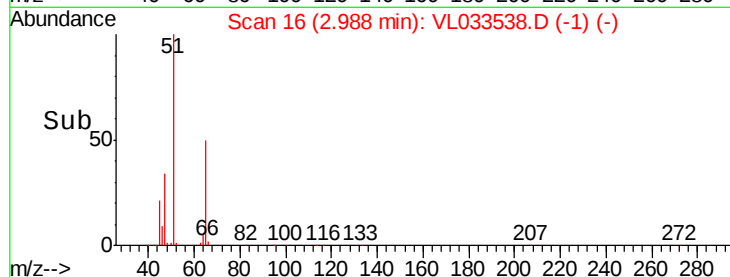
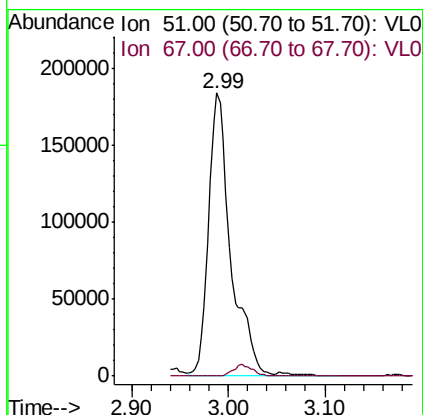
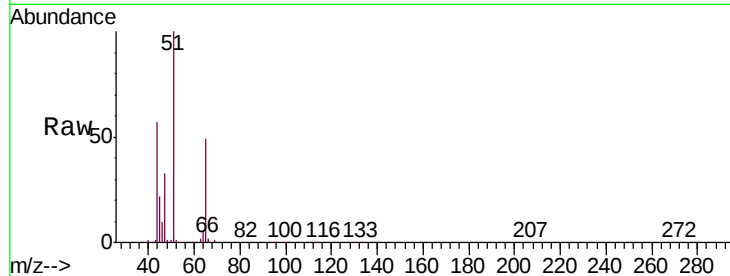




#3
 Chlorodifluoromethane
 Concen: 2.681 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.03 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

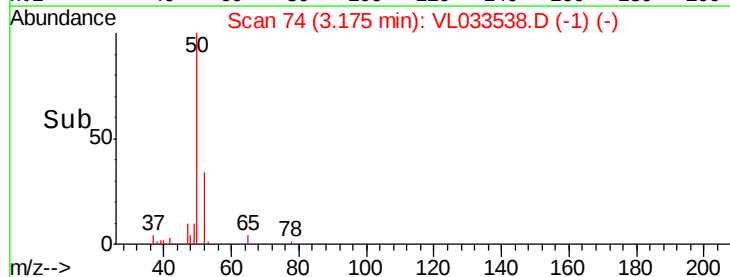
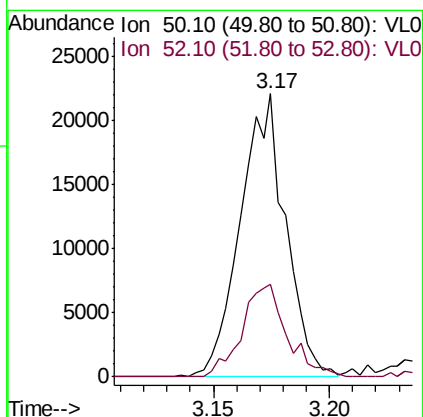
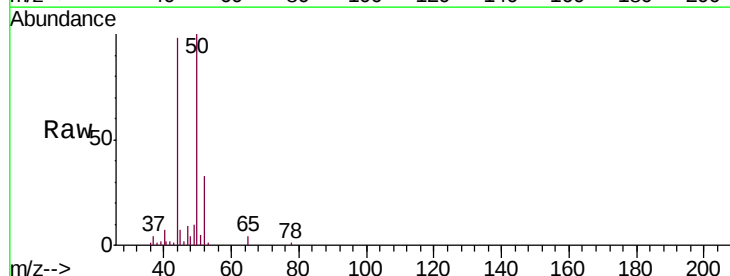
Instrument :
 MSVOA_L
 ClientSampleId :
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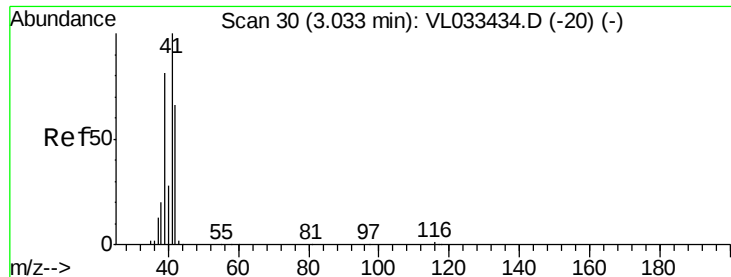
Tgt Ion: 51 Resp: 298266
 Ion Ratio Lower Upper
 51 100
 67 3.3 15.7 23.5#



#4
 Chloromethane
 Concen: 0.507 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.01 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Tgt Ion: 50 Resp: 29838
 Ion Ratio Lower Upper
 50 100
 52 31.1 25.0 37.6





#9

Propene

Concen: 3.519 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033538.D

Acq: 4 Apr 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

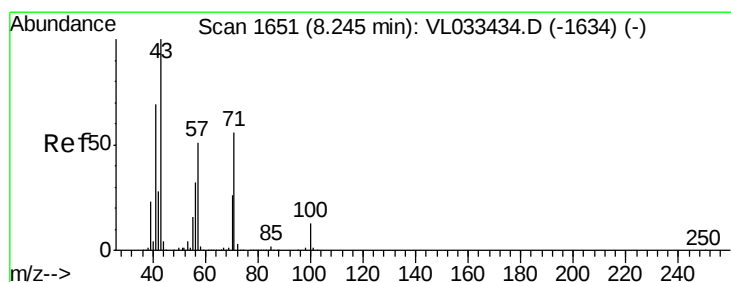
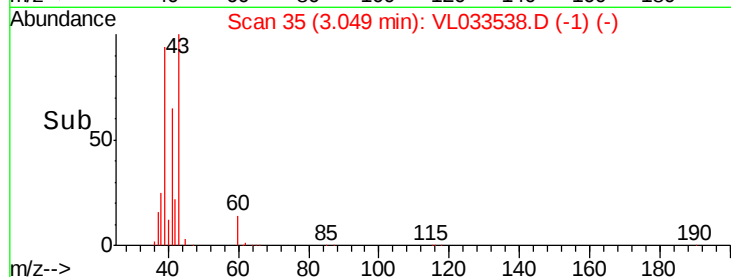
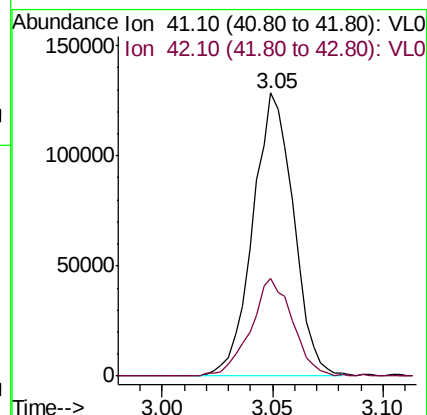
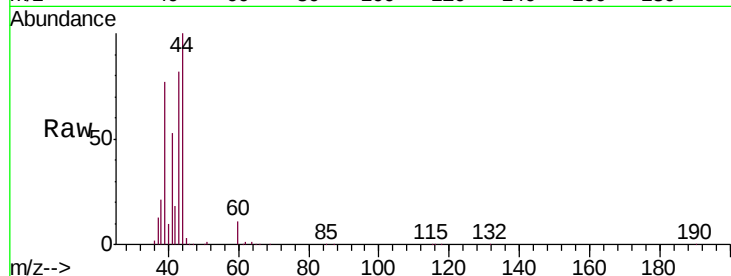
A-2

Tgt Ion: 41 Resp: 164412

Ion Ratio Lower Upper

41 100

42 35.7 53.9 80.9#



#10

Heptane

Concen: 1.251 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033538.D

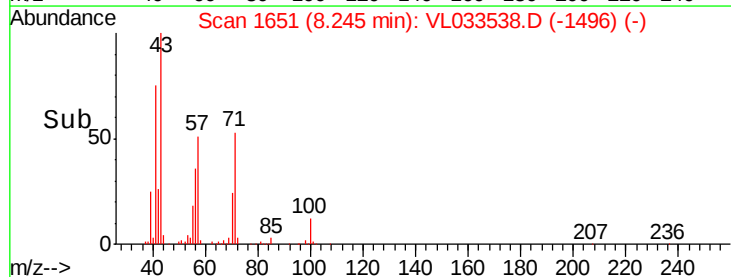
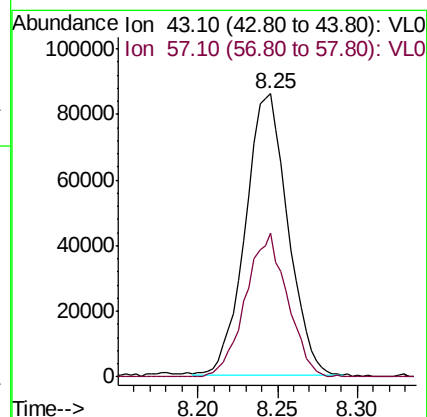
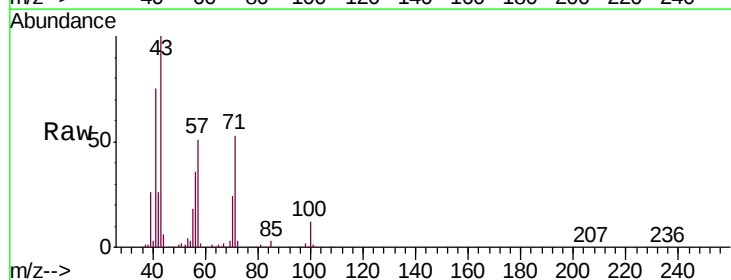
Acq: 4 Apr 2019 18:22

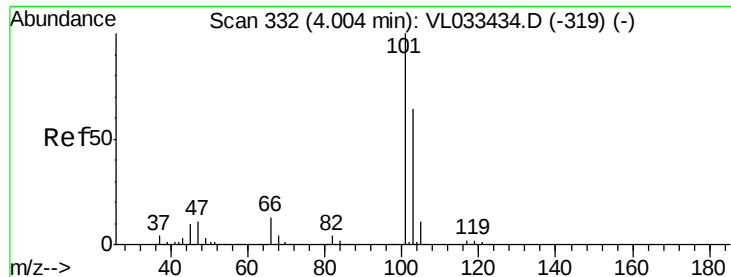
Tgt Ion: 43 Resp: 156172

Ion Ratio Lower Upper

43 100

57 49.9 40.6 60.8

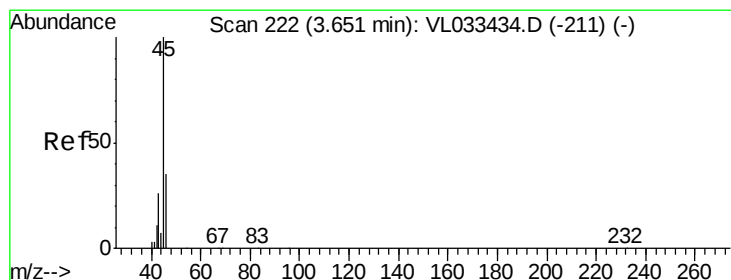
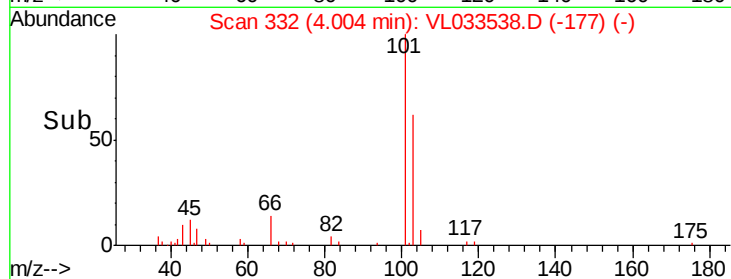
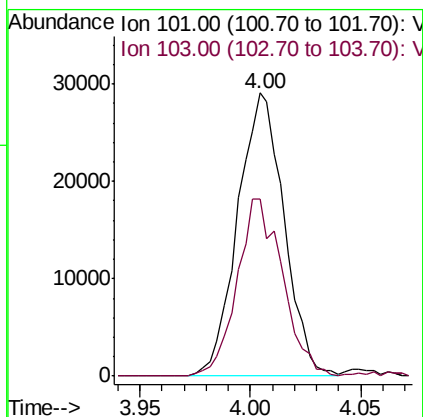
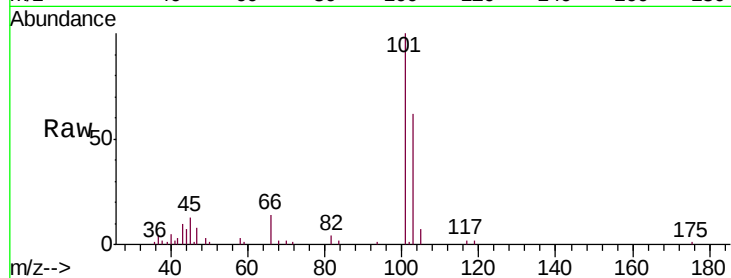




#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

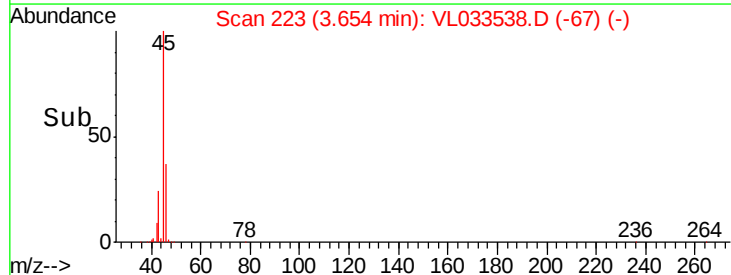
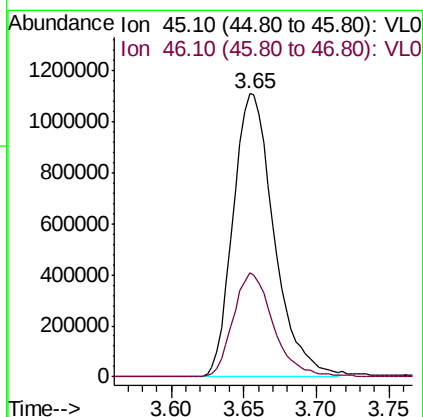
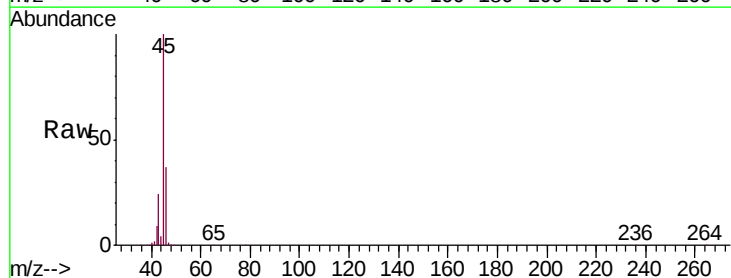
Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

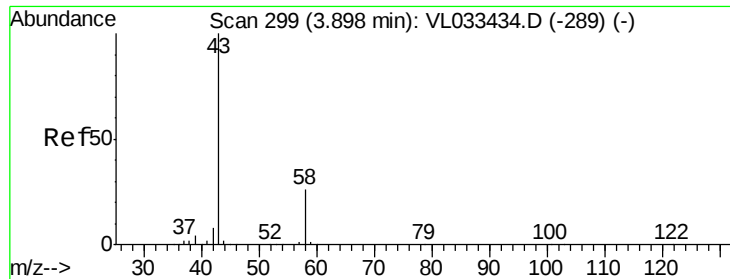
Tgt Ion: 101 Resp: 42520
 Ion Ratio Lower Upper
 101 100
 103 62.5 51.3 76.9



#13
 Ethanol
 Concen: 180.305 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Tgt Ion: 45 Resp: 2179812
 Ion Ratio Lower Upper
 45 100
 46 36.2 25.4 101.8





#15

Acetone

Concen: 13.915 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033538.D

Acq: 4 Apr 2019 18:22

Instrument :

MSVOA_L

ClientSampleId :

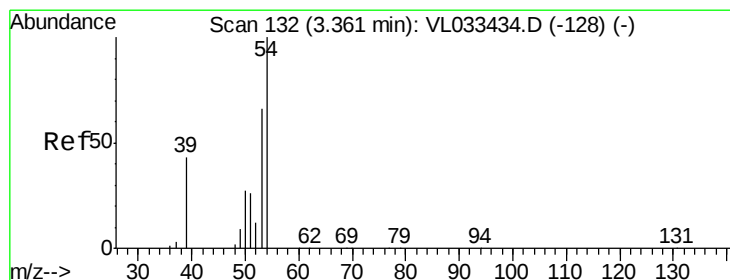
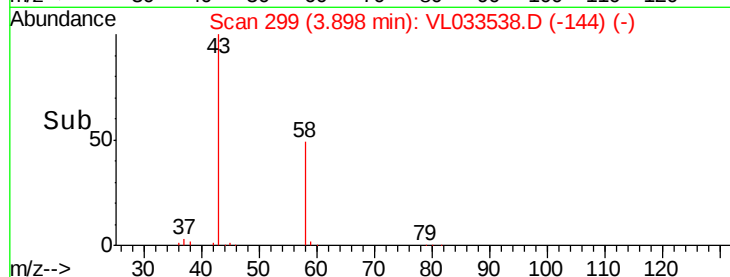
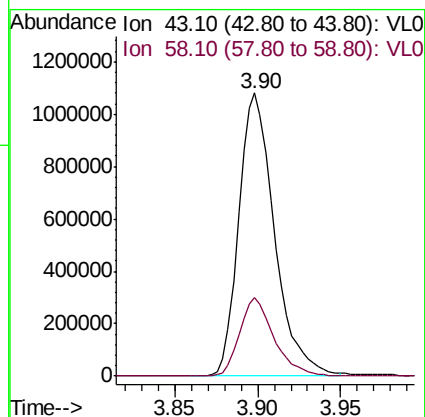
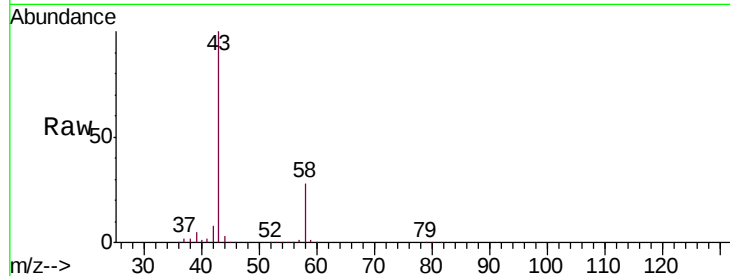
A-2

Tgt Ion: 43 Resp: 1616720

Ion Ratio Lower Upper

43 100

58 27.0 20.5 30.7



#16

1,3-Butadiene

Concen: 0.130 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033538.D

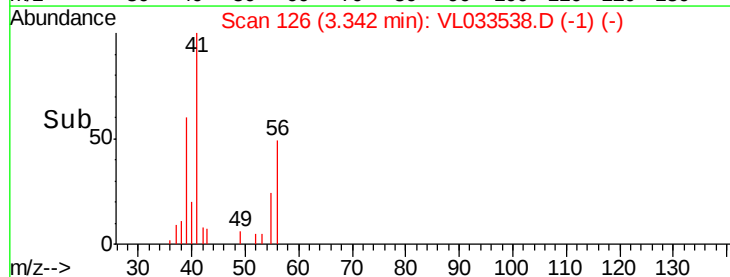
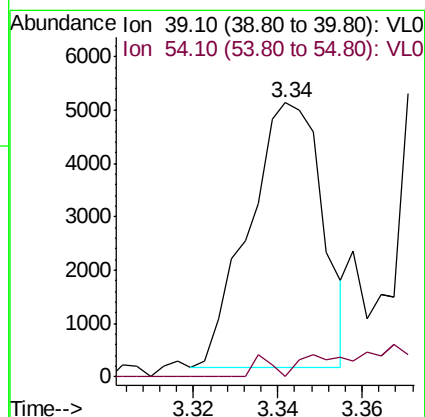
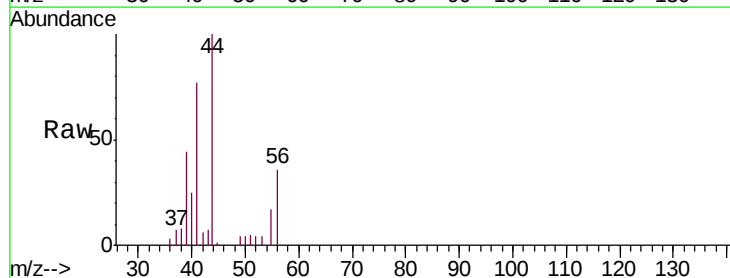
Acq: 4 Apr 2019 18:22

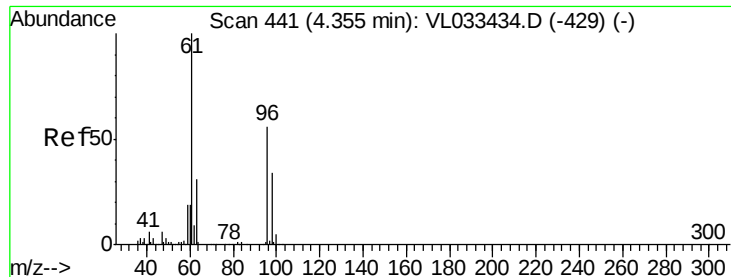
Tgt Ion: 39 Resp: 6009

Ion Ratio Lower Upper

39 100

54 6.7 69.4 104.2#



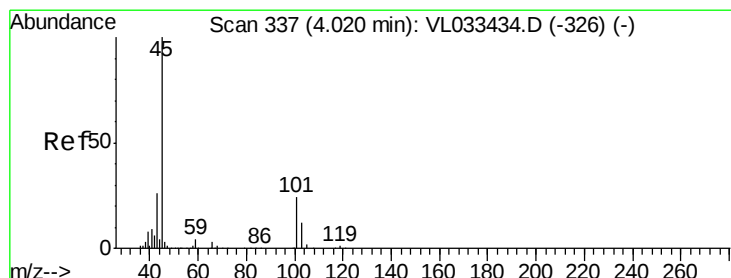
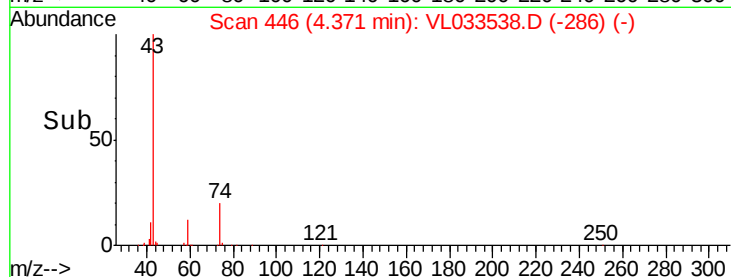
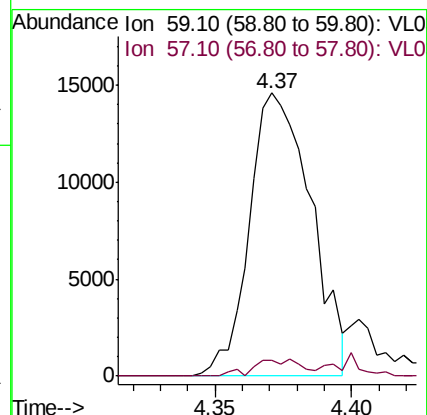
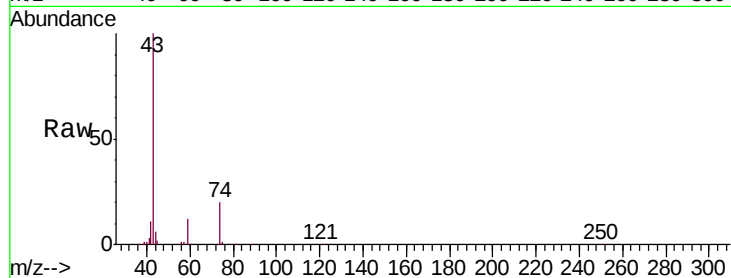


#17

tert-Butyl alcohol
Concen: 1.068 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.02 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Instrument :
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ClientSampleId :
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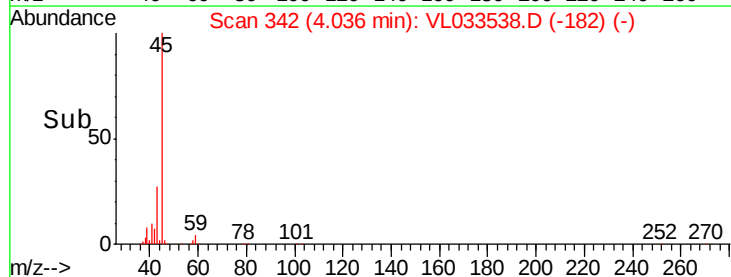
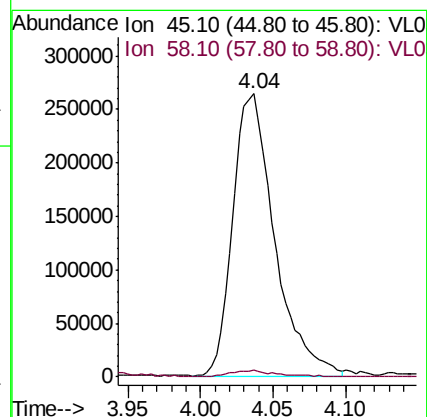
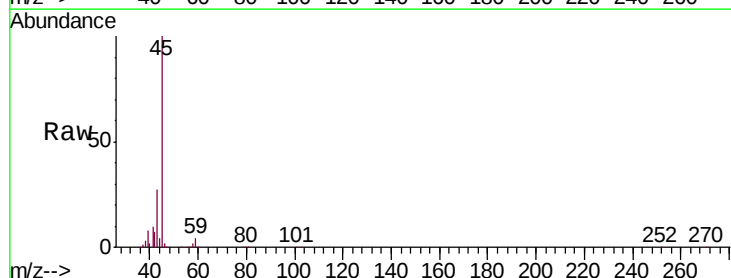
Tgt Ion: 59 Resp: 22826
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

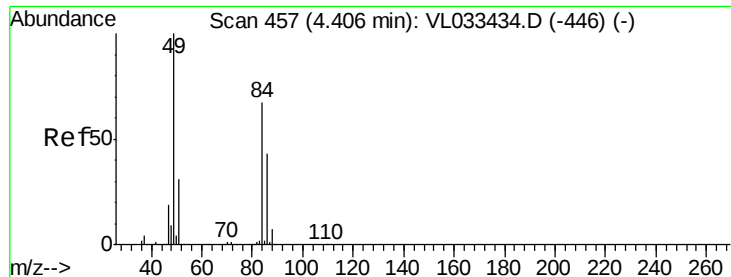


#19

Isopropyl Alcohol
Concen: 7.220 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Tgt Ion: 45 Resp: 530620
Ion Ratio Lower Upper
45 100
58 2.7 1.4 2.2#

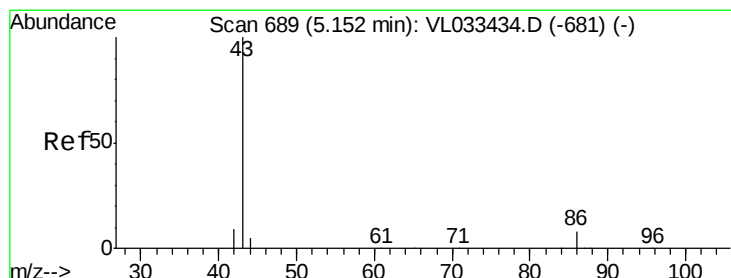
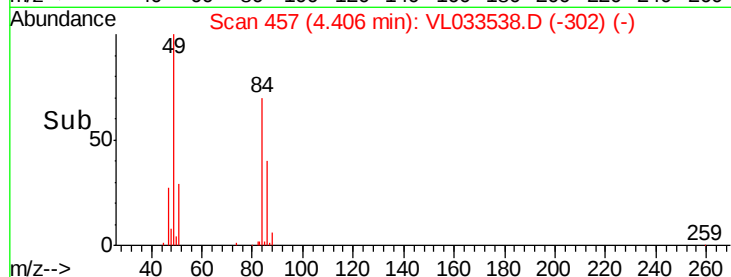
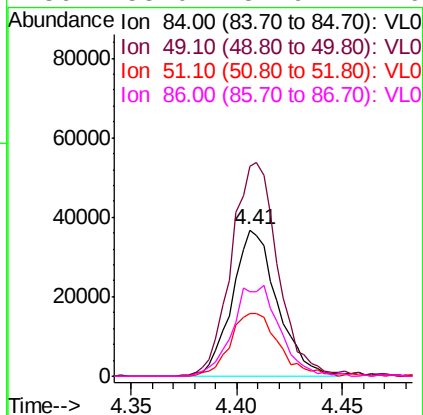
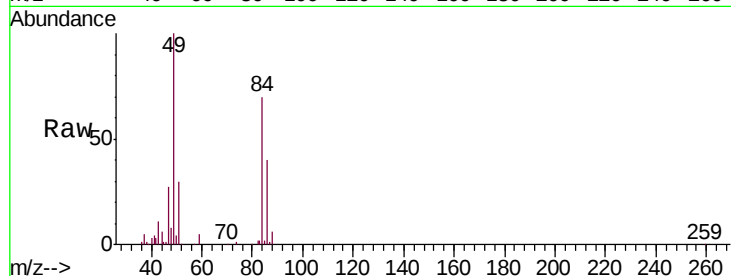




#20
Methylene Chloride
Concen: 1.108 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

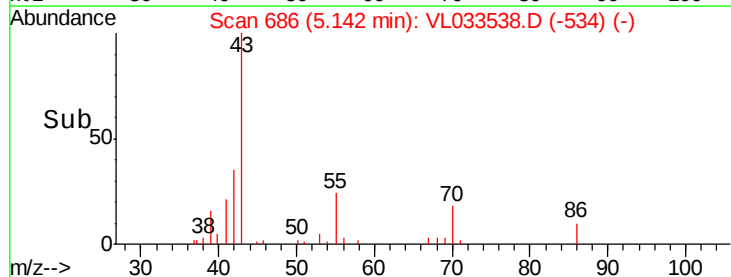
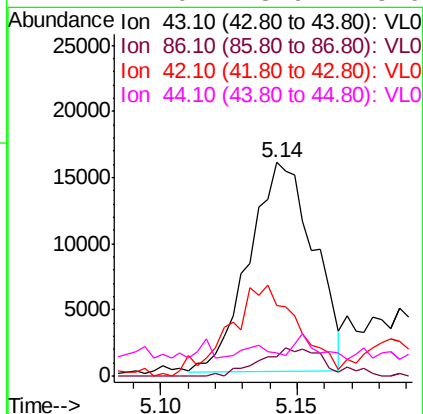
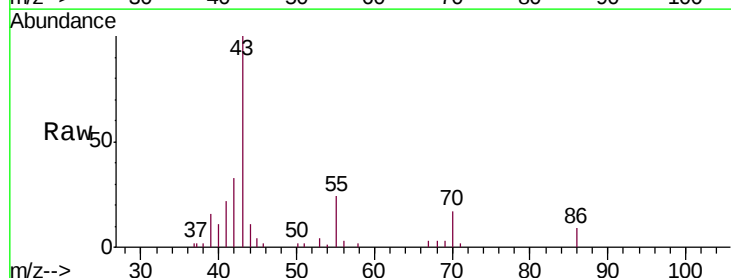
Instrument :
MSVOA_L
ClientSampleId :
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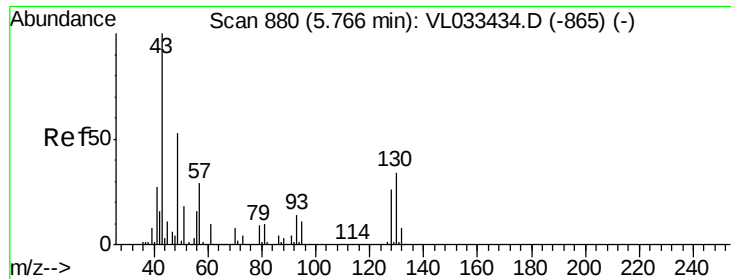
Tgt Ion:	84	Resp:	54670
Ion	Ratio	Lower	Upper
84	100		
49	142.1	120.0	180.0
51	42.7	36.7	55.1
86	58.0	51.9	77.9



#23
Vinyl Acetate
Concen: 0.157 ppbv
RT: 5.14 min Scan# 686
Delta R.T. -0.01 min
Lab File: VL033538.D
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Tgt Ion:	43	Resp:	26046
Ion	Ratio	Lower	Upper
43	100		
86	9.3	5.6	8.4#
42	31.2	8.0	12.0#
44	2.0	3.9	5.9#

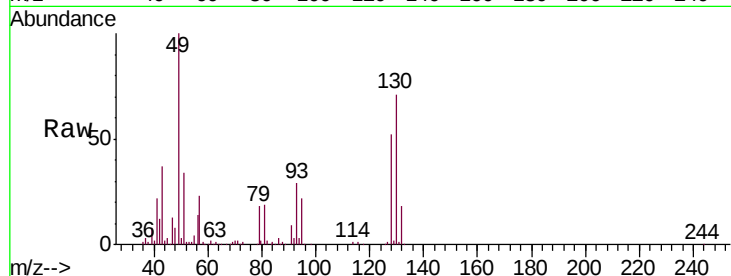




#25
Ethyl Acetate
Concen: 0.848 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Instrument :
MSVOA_L
ClientSampled :
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Tgt Ion:	43	Resp:	182741
Ion	Ratio	Lower	Upper
43	100		
45	9.3	7.8	11.6
61	7.0	7.3	10.9#
70	6.0	5.6	8.4



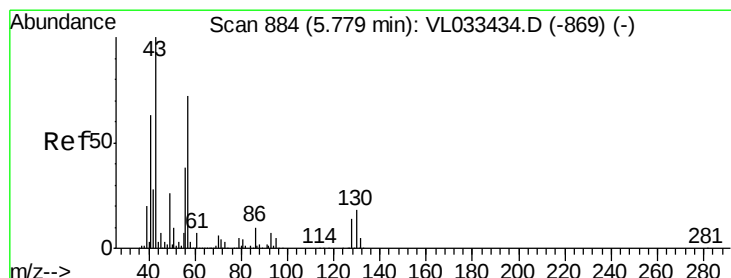
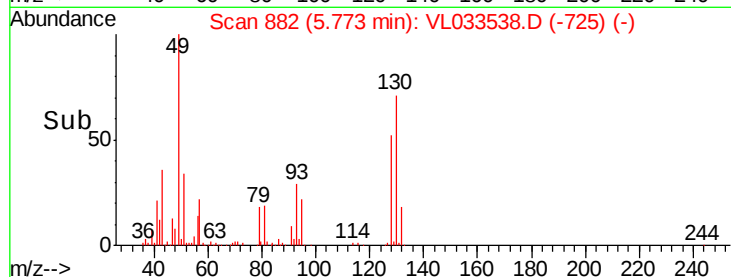
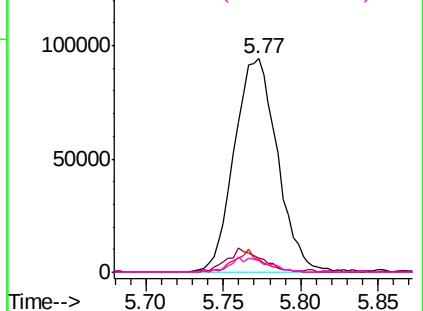
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

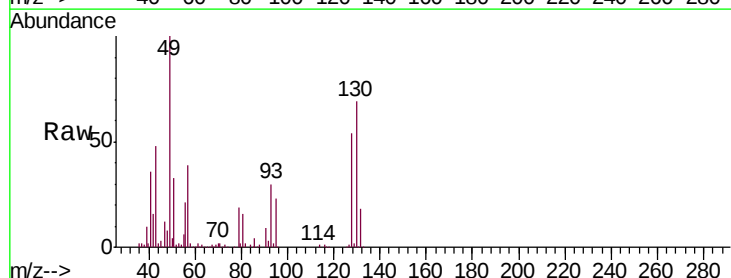
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.137 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Tgt Ion:	57	Resp:	109003
Ion	Ratio	Lower	Upper
57	100		
41	96.6	70.7	106.1
43	170.6	182.6	274.0#
56	57.1	42.0	63.0



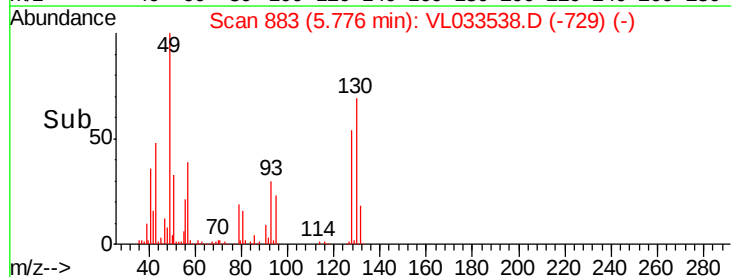
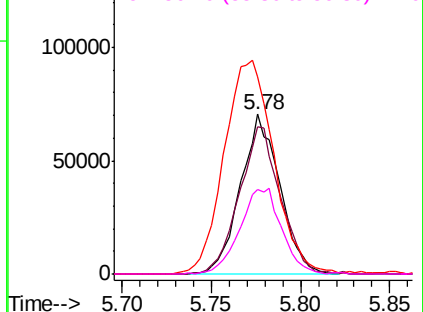
Abundance

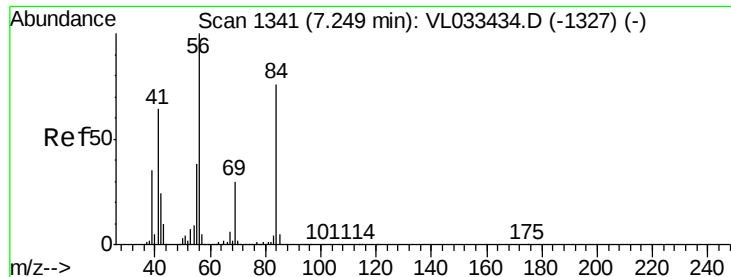
Ion 57.10 (56.80 to 57.80): VL0

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

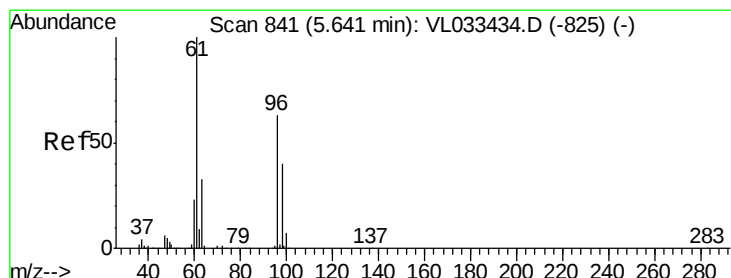
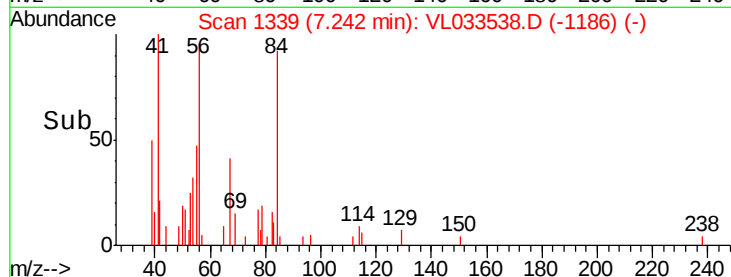
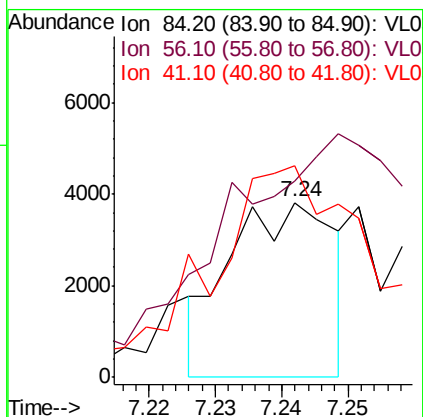
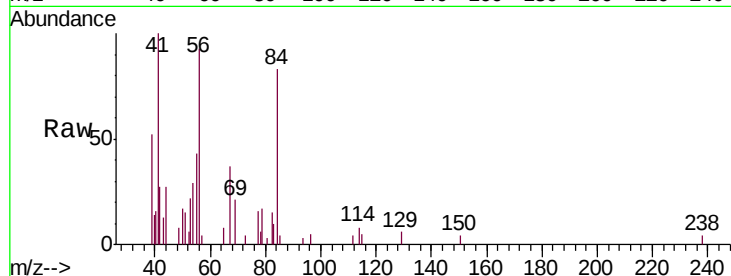




#30
Cyclohexane
Concen: 0.055 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

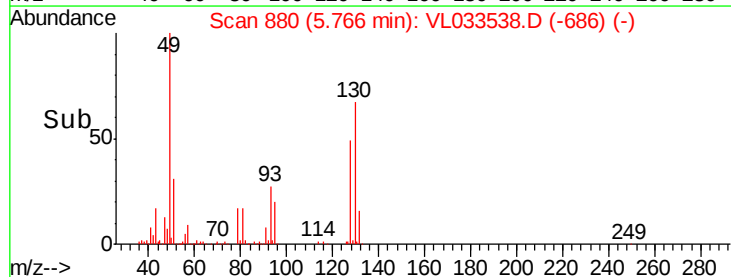
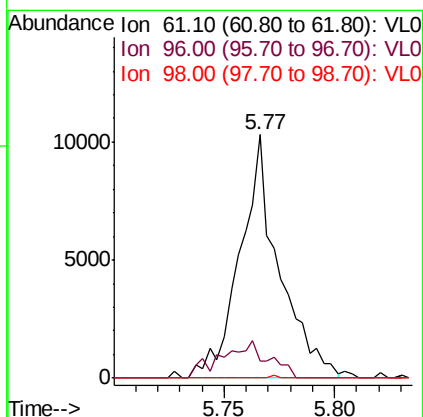
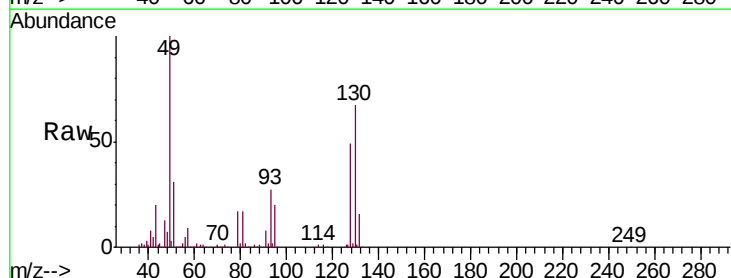
Instrument :
MSVOA_L
ClientSampleId :
A-2

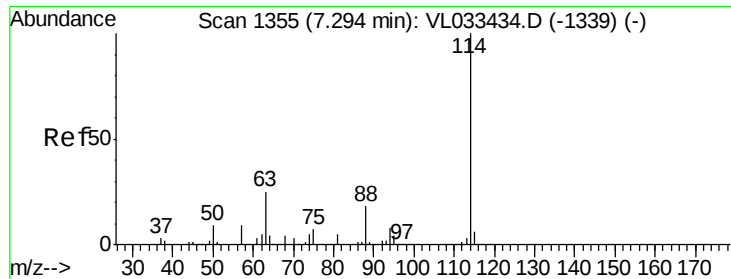
Tgt Ion: 84 Resp: 4168
Ion Ratio Lower Upper
84 100
56 0.0 109.7 164.5#
41 225.3 68.2 102.2#



#31
cis-1,2-Dichloroethene
Concen: 0.133 ppbv
RT: 5.77 min Scan# 880
Delta R.T. 0.13 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Tgt Ion: 61 Resp: 12663
Ion Ratio Lower Upper
61 100
96 6.8 50.6 76.0#
98 0.0 32.2 48.2#

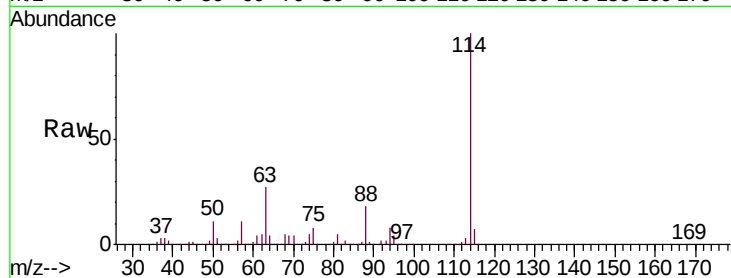




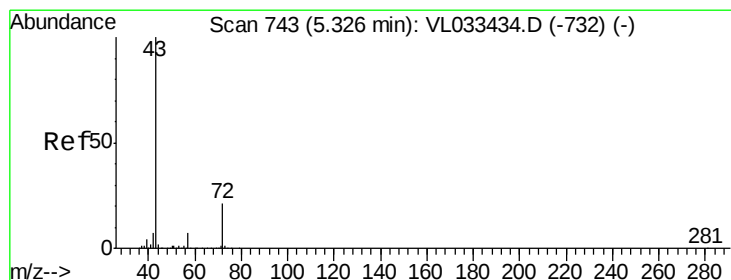
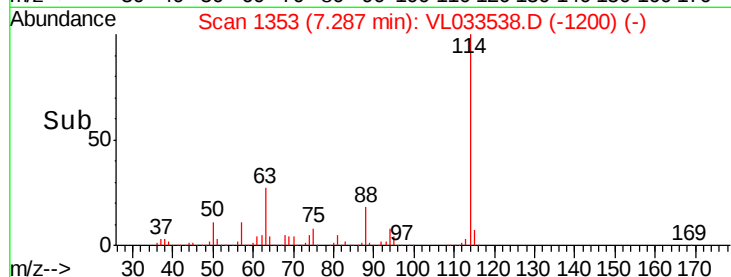
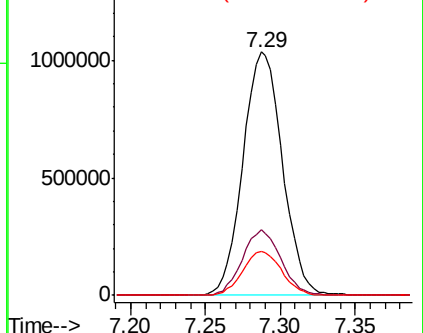
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

Tgt Ion:114 Resp: 1903488
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.5 32.3
 88 17.9 14.5 21.7

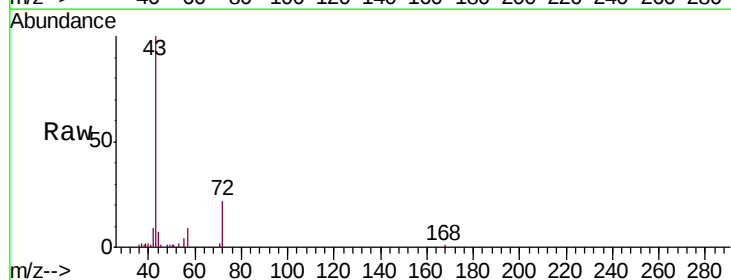


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

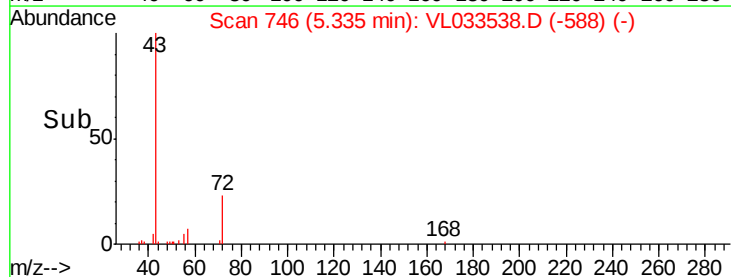
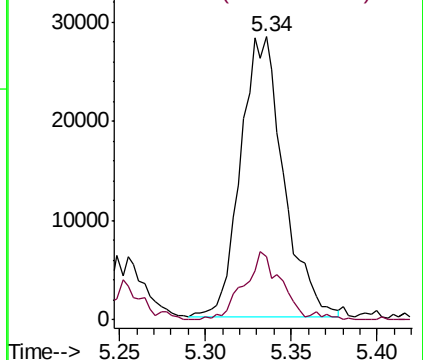


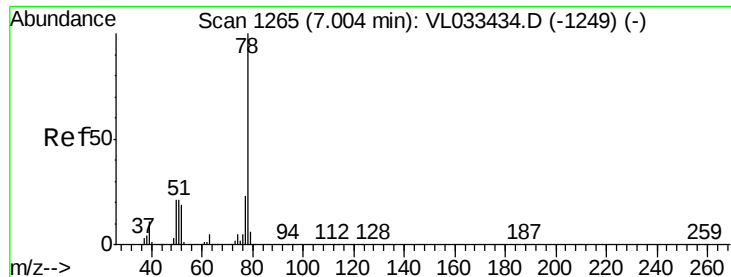
#34
 2-Butanone
 Concen: 0.429 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Tgt Ion: 43 Resp: 49012
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.4 26.2



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

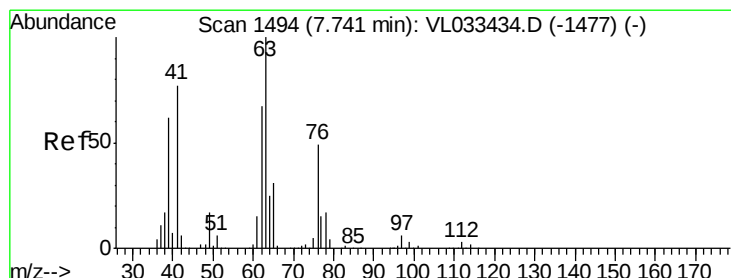
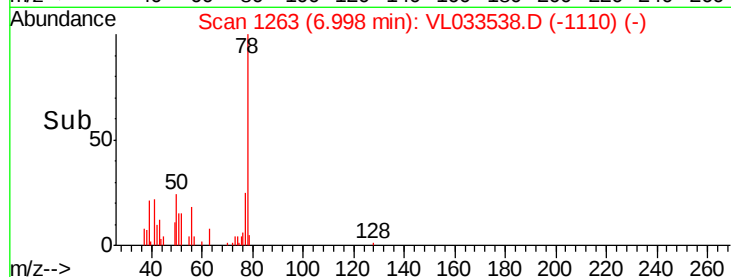
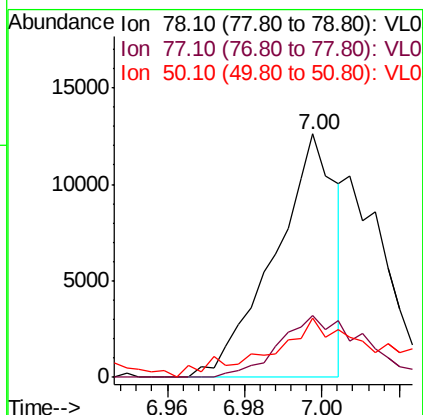
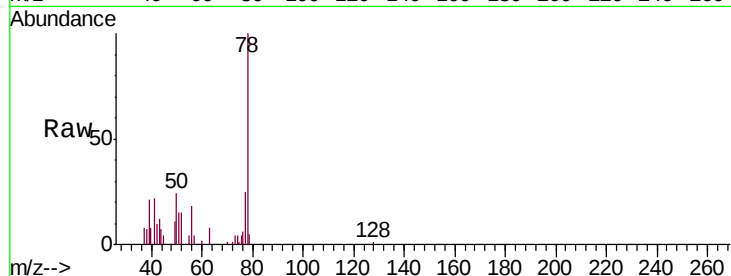




#36
Benzene
Concen: 0.087 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

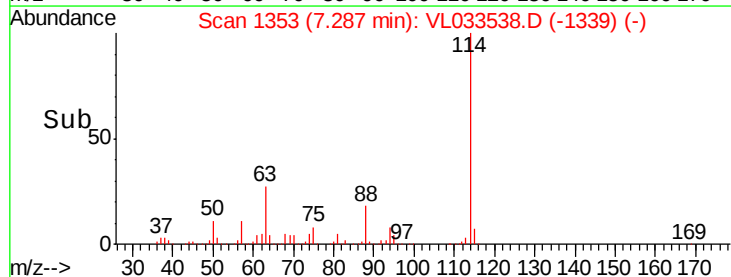
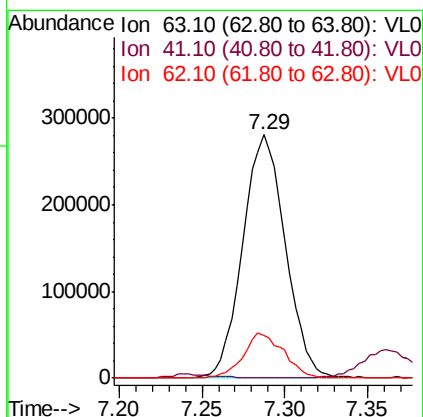
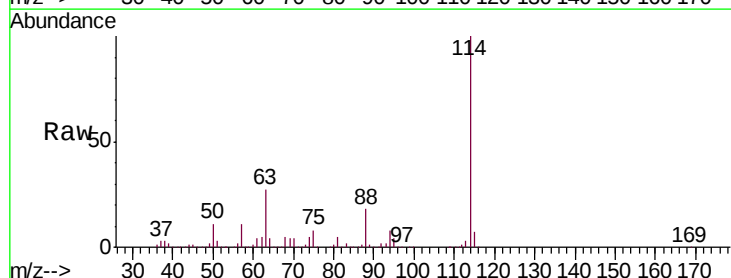
Instrument :
MSVOA_L
ClientSampleId :
A-2

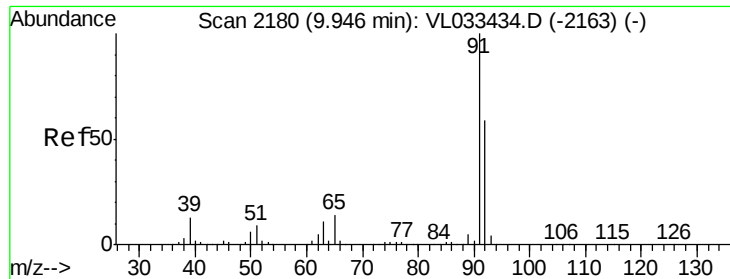
Tgt Ion: 78 Resp: 13892
Ion Ratio Lower Upper
78 100
77 25.3 18.1 27.1
50 19.2 16.7 25.1



#39
1,2-Dichloropropane
Concen: 8.023 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.45 min
Lab File: VL033538.D
Acq: 4 Apr 2019 18:22

Tgt Ion: 63 Resp: 501986
Ion Ratio Lower Upper
63 100
41 0.0 61.2 91.8#
62 17.7 54.0 81.0#





#53

Toluene

Concen: 1.904 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033538.D

Acq: 4 Apr 2019 18:22

Instrument :

MSVOA_L

ClientSampled :

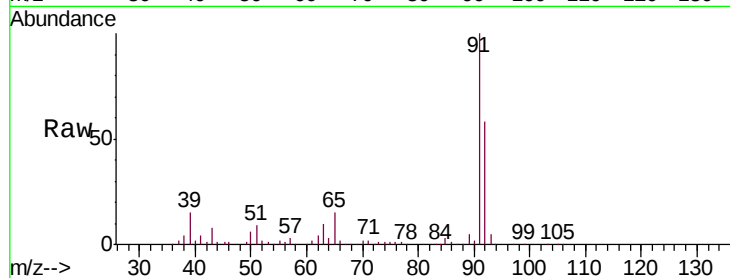
A-2

Tgt Ion: 91 Resp: 353293

Ion Ratio Lower Upper

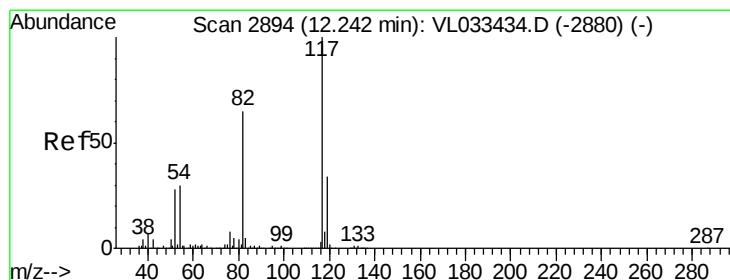
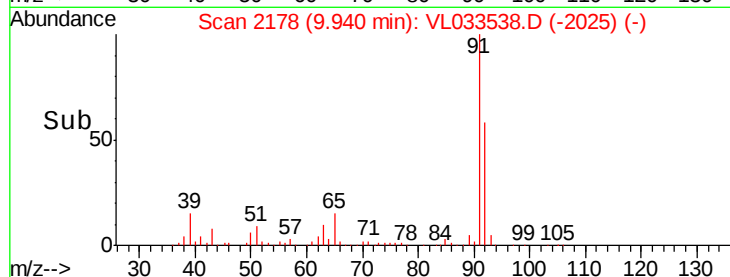
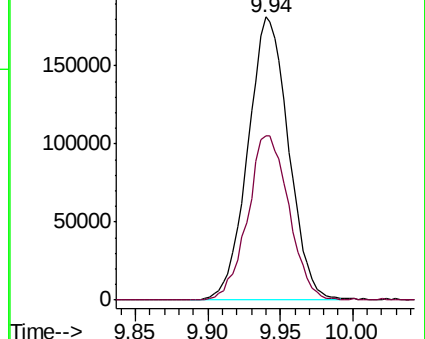
91 100

92 59.0 47.4 71.0



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: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033538.D

Acq: 4 Apr 2019 18:22

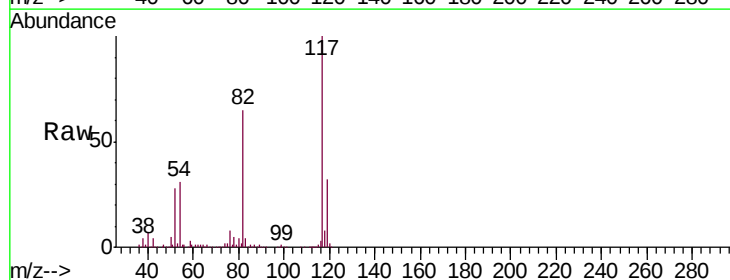
Tgt Ion: 117 Resp: 2247872

Ion Ratio Lower Upper

117 100

82 67.0 51.5 77.3

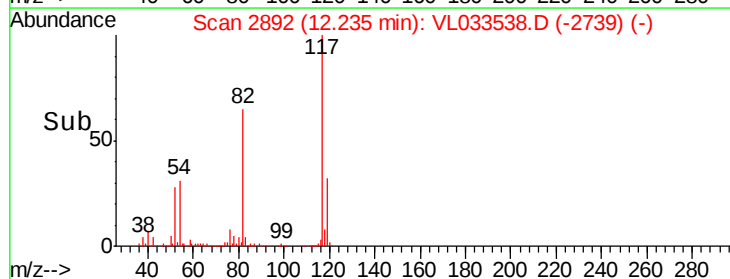
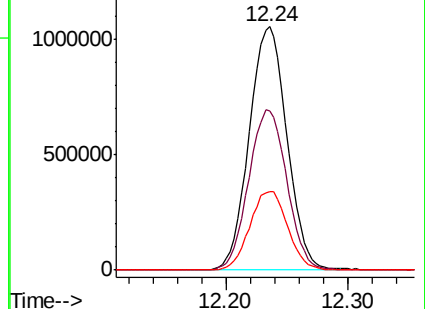
119 32.6 25.5 38.3

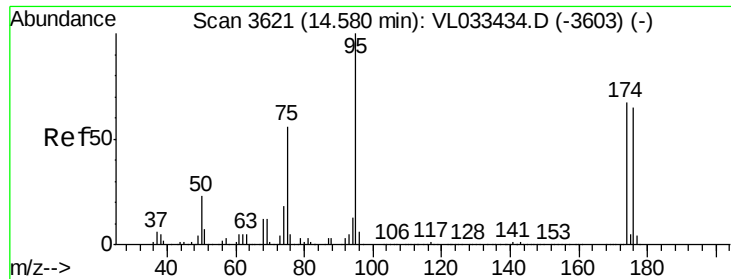


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

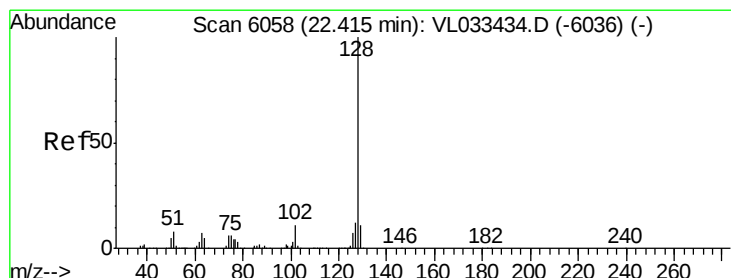
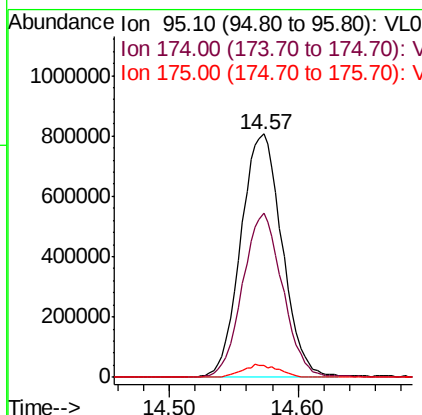
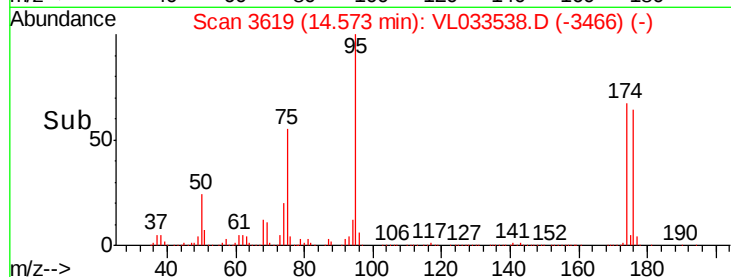
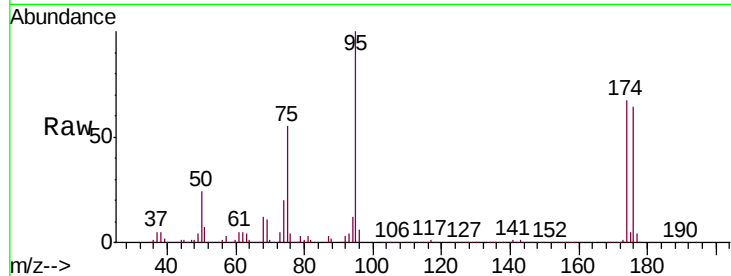




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.197 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

Tgt Ion: 95 Resp: 1796973
 Ion Ratio Lower Upper
 95 100
 174 66.2 52.9 79.3
 175 4.7 3.8 5.6



#79
 Naphthalene
 Concen: 0.097 ppbv
 RT: 22.41 min Scan# 6055
 Delta R.T. -0.01 min
 Lab File: VL033538.D
 Acq: 4 Apr 2019 18:22

Tgt Ion: 128 Resp: 24872
 Ion Ratio Lower Upper
 128 100
 127 13.7 9.8 14.8
 129 17.9 8.6 12.8#

