

Data File : VL032942.D
Acq On : 7 Dec 2018 19:51
Operator : SY/AP
Sample : J6262-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA4DL

Quant Time: Dec 08 02:02:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1385070	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3425736	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3277904	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2500265	10.32	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

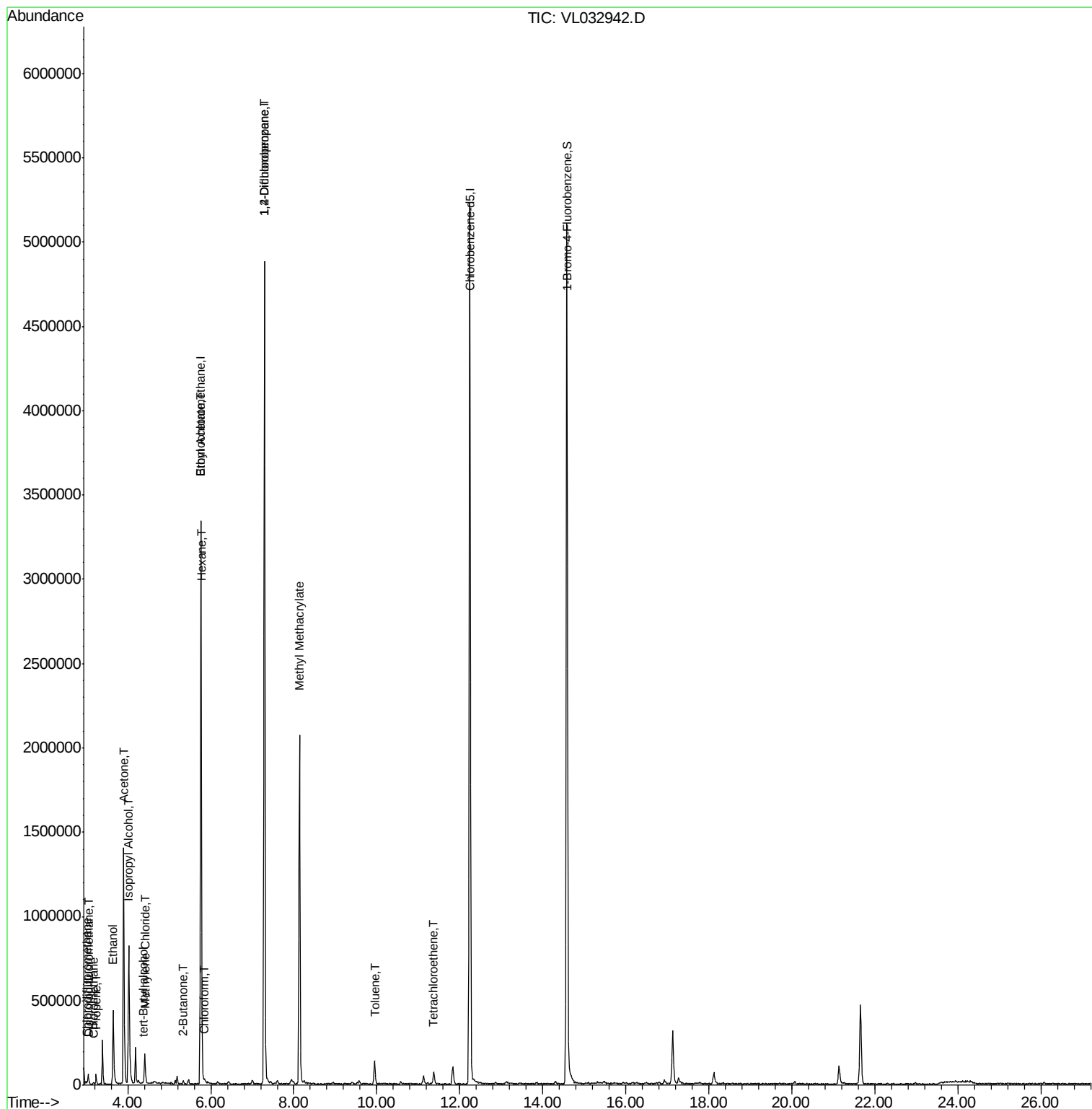
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	9052	0.049	ppbv	94
3) Chlorodifluoromethane	3.02	51	22516	0.215	ppbv #	83
4) Chloromethane	3.17	50	7172	0.117	ppbv	97
9) Propene	3.24	41	13950	0.336	ppbv	88
13) Ethanol	3.65	45	458072	32.076	ppbv	96
15) Acetone	3.90	43	1389923	11.691	ppbv	99
17) tert-Butyl alcohol	4.36	59	973	0.032	ppbv #	98
19) Isopropyl Alcohol	4.02	45	960670	12.867	ppbv	99
20) Methylene Chloride	4.41	84	58189	1.001	ppbv	93
25) Ethyl Acetate	5.77	43	216796	0.772	ppbv #	95
26) Hexane	5.78	57	64775	0.500	ppbv #	49
29) Chloroform	5.85	83	7313	0.032	ppbv	98
34) 2-Butanone	5.34	43	20185	0.135	ppbv	96
39) 1,2-Dichloropropane	7.29	63	854035	8.937	ppbv #	21
43) Methyl Methacrylate	8.14	69	734034	7.862	ppbv	99
52) Tetrachloroethene	11.37	164	8169	0.089	ppbv #	80
53) Toluene	9.95	91	98589	0.369	ppbv	99

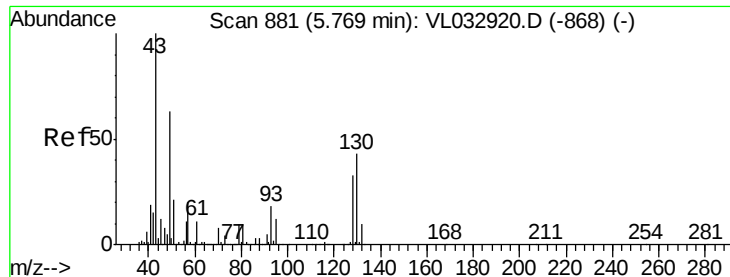
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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ClientSampleId :

IA4DL

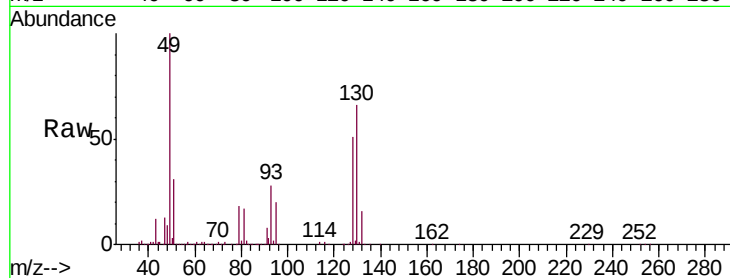
Tgt Ion: 49 Resp: 1385070

Ion Ratio Lower Upper

49 100

128 51.9 26.3 78.8

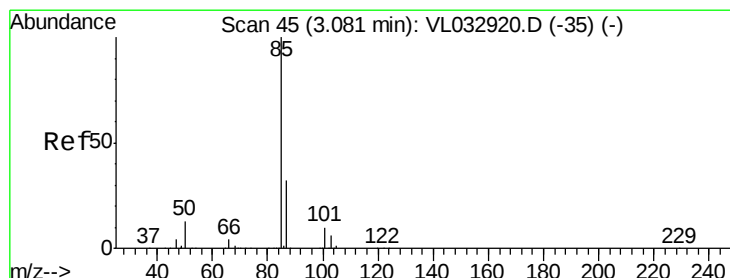
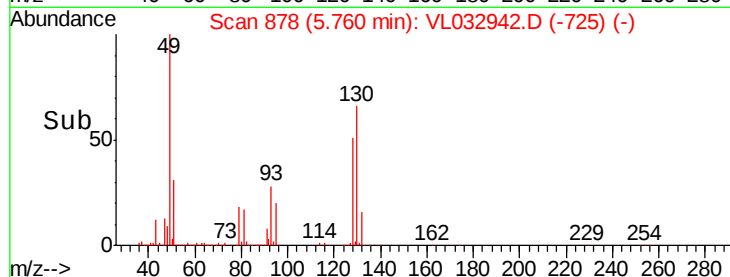
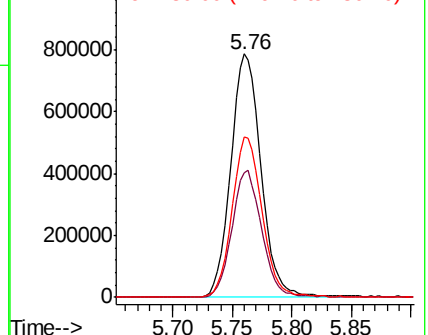
130 66.3 33.9 101.7



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: 0.049 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.01 min

Lab File: VL032942.D

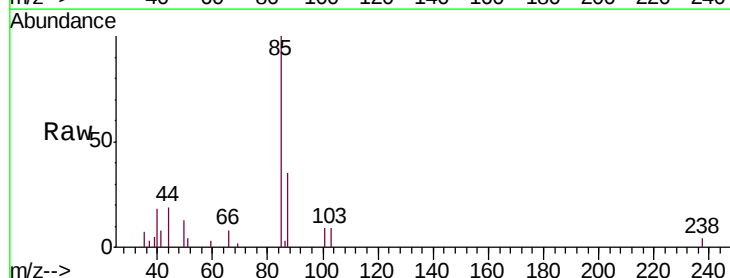
Acq: 7 Dec 2018 19:51

Tgt Ion: 85 Resp: 9052

Ion Ratio Lower Upper

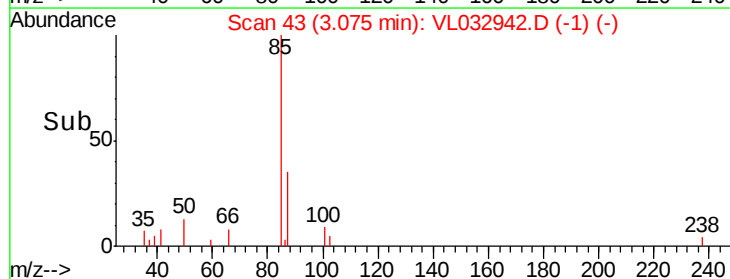
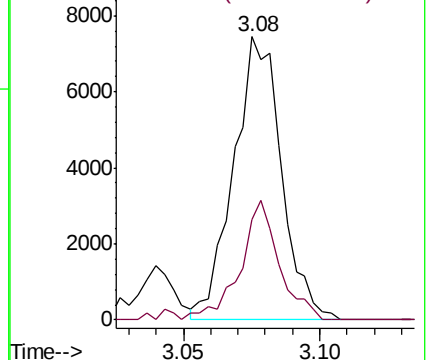
85 100

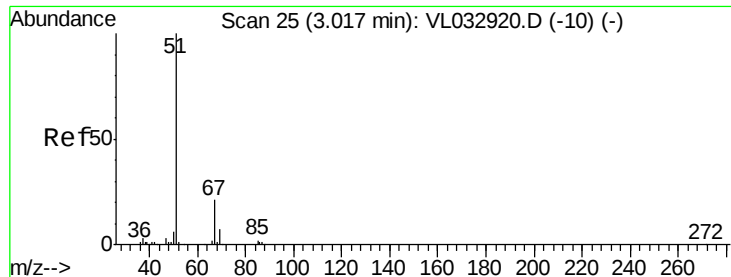
87 35.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.215 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

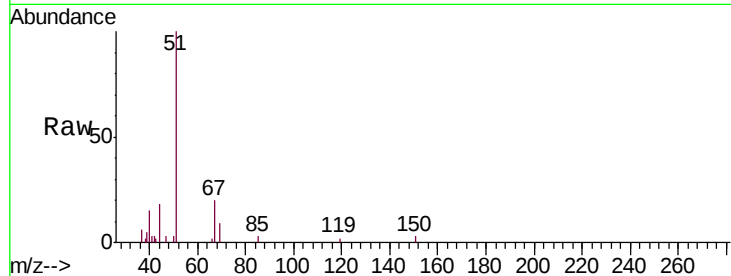
IA4DL

Tgt Ion: 51 Resp: 22516

Ion Ratio Lower Upper

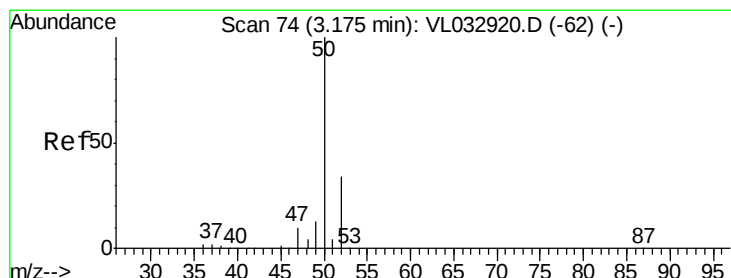
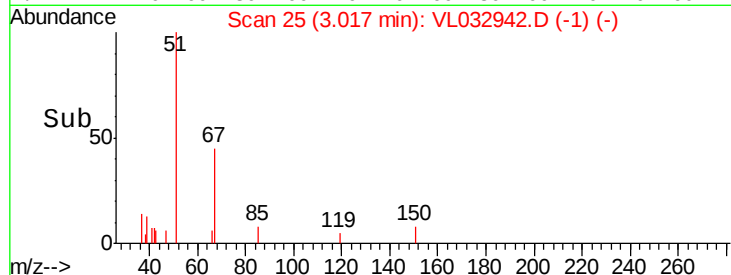
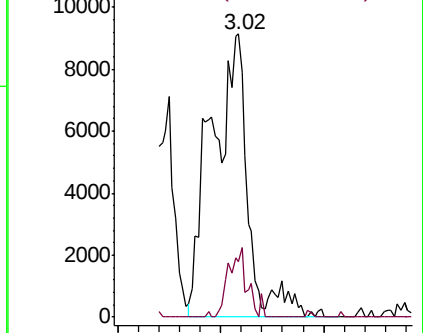
51 100

67 12.8 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.117 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032942.D

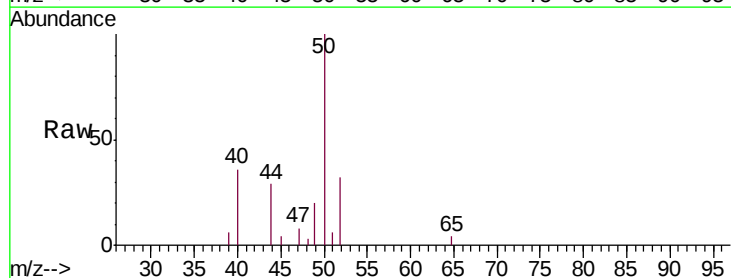
Acq: 7 Dec 2018 19:51

Tgt Ion: 50 Resp: 7172

Ion Ratio Lower Upper

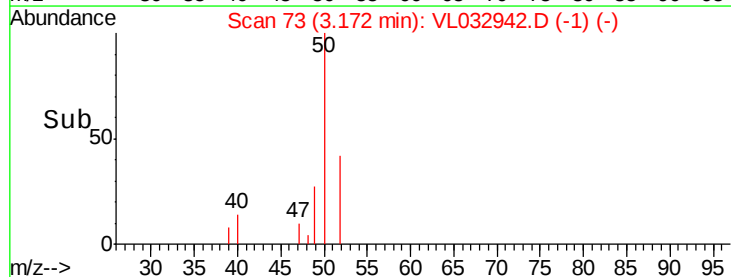
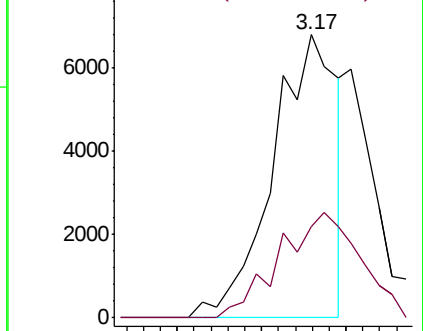
50 100

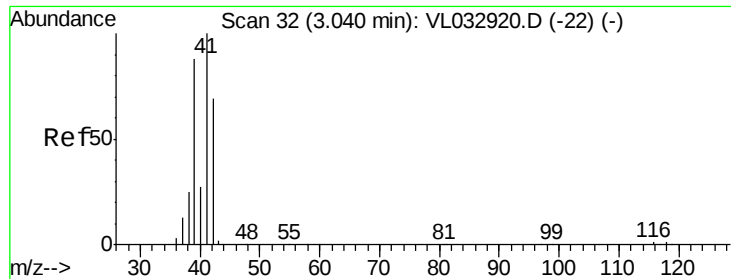
52 32.2 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.336 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

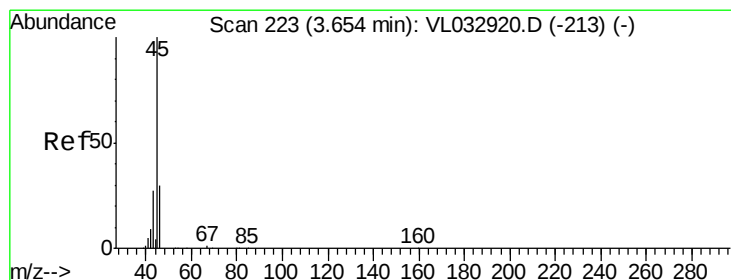
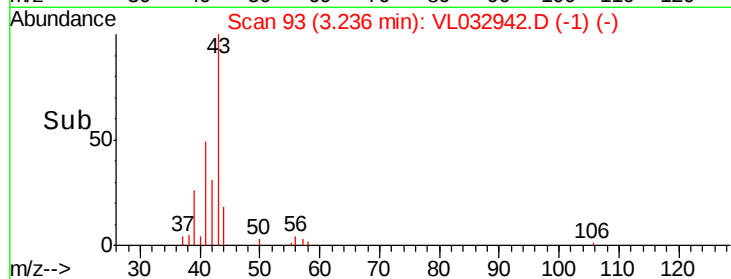
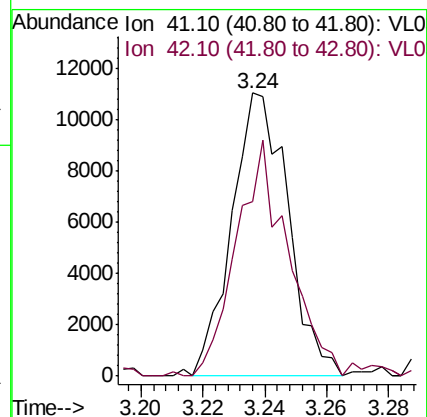
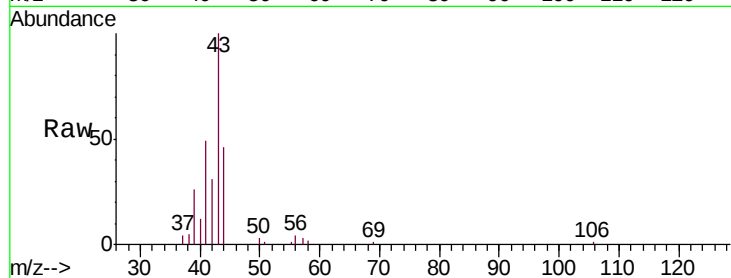
IA4DL

Tgt Ion: 41 Resp: 13950

Ion Ratio Lower Upper

41 100

42 79.9 56.2 84.2



#13

Ethanol

Concen: 32.076 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.01 min

Lab File: VL032942.D

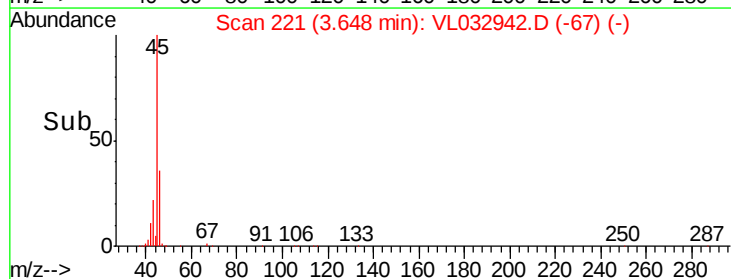
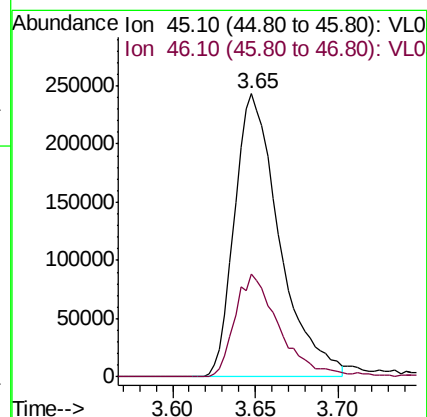
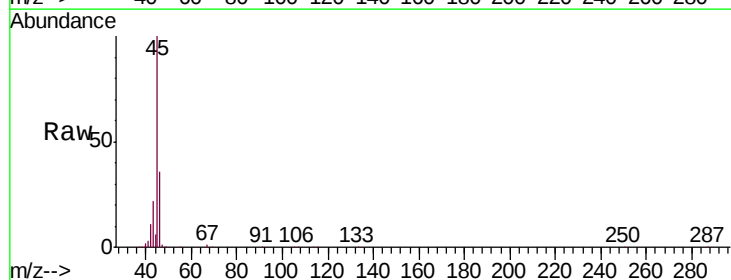
Acq: 7 Dec 2018 19:51

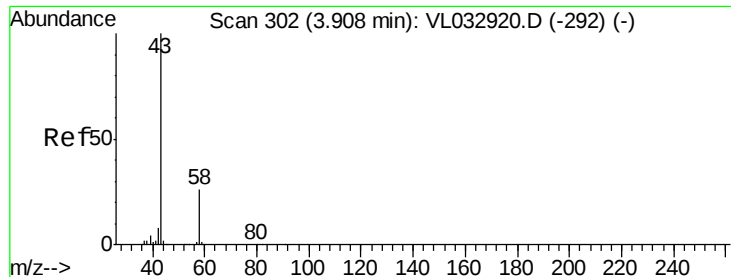
Tgt Ion: 45 Resp: 458072

Ion Ratio Lower Upper

45 100

46 37.0 13.8 55.4





#15

Acetone

Concen: 11.691 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

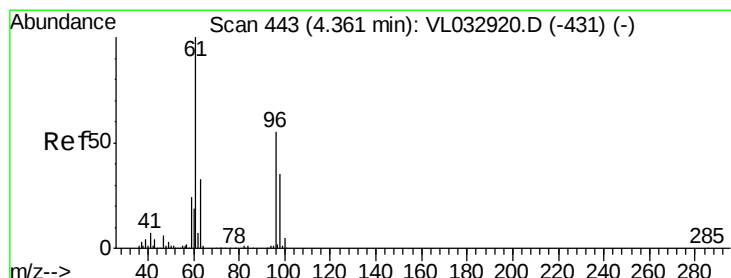
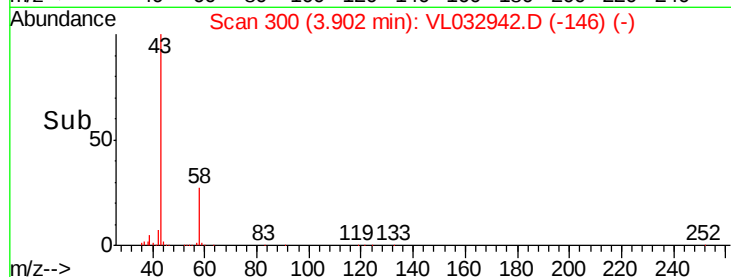
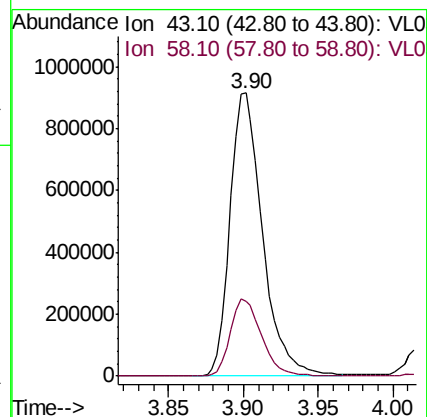
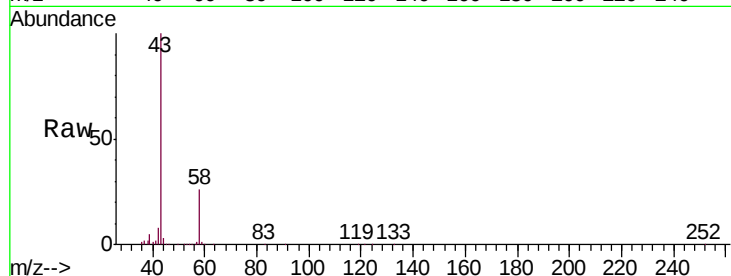
IA4DL

Tgt Ion: 43 Resp: 1389923

Ion Ratio Lower Upper

43 100

58 26.2 20.6 30.8



#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL032942.D

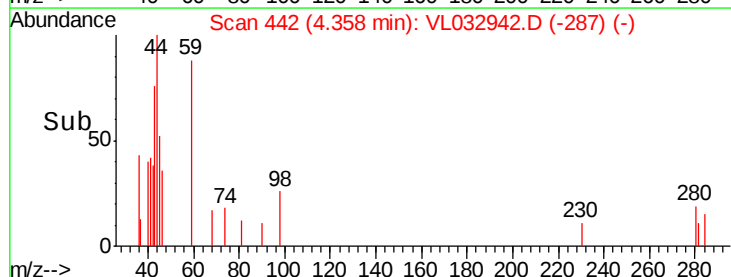
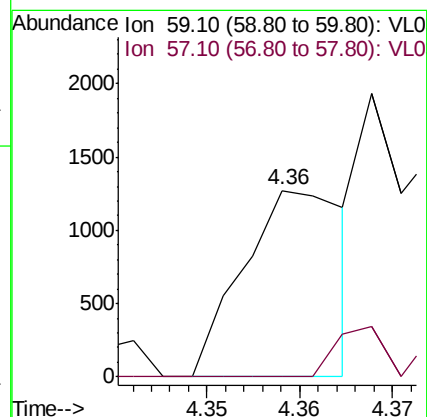
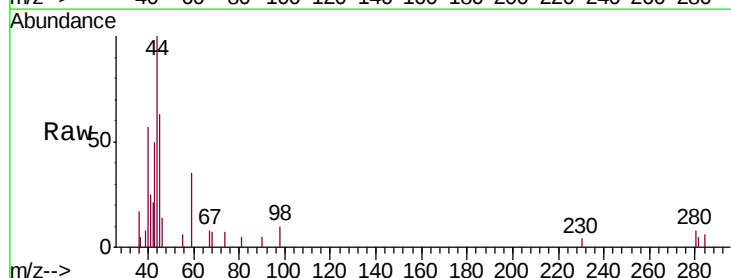
Acq: 7 Dec 2018 19:51

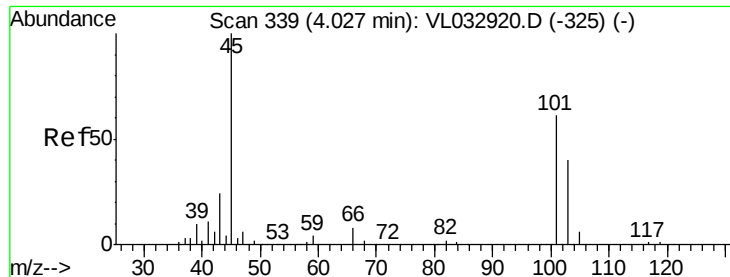
Tgt Ion: 59 Resp: 973

Ion Ratio Lower Upper

59 100

57 0.0 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 12.867 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

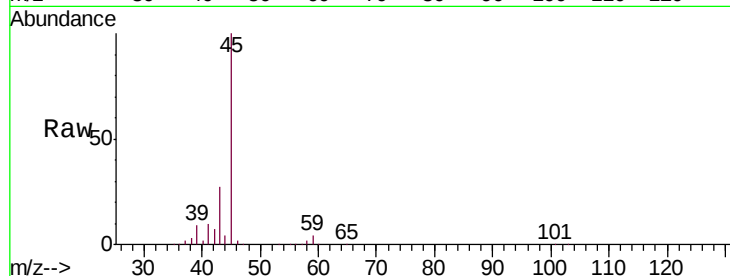
IA4DL

Tgt Ion: 45 Resp: 960670

Ion Ratio Lower Upper

45 100

58 2.0 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

300000

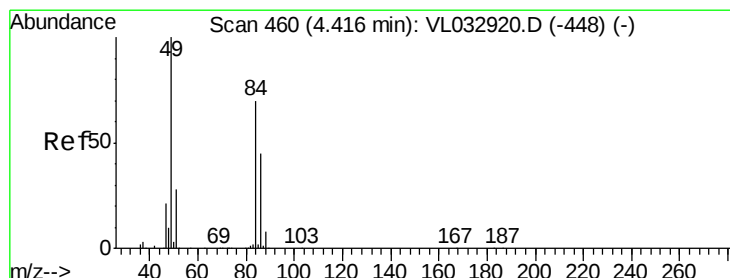
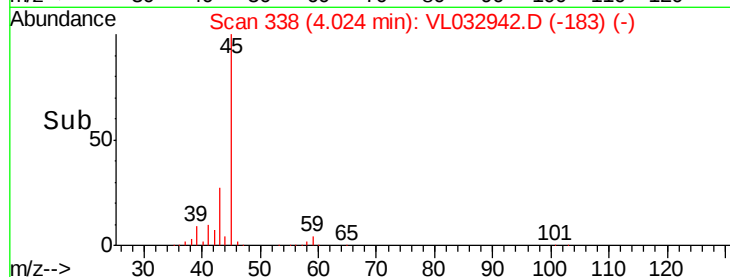
200000

100000

0

4.00 4.10

Time-->



#20

Methylene Chloride

Concen: 1.001 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.01 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Tgt Ion: 84 Resp: 58189

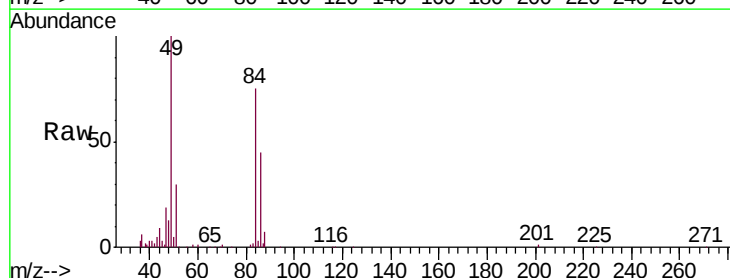
Ion Ratio Lower Upper

84 100

49 131.4 113.8 170.8

51 39.3 31.8 47.8

86 58.0 50.8 76.2



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

80000

60000

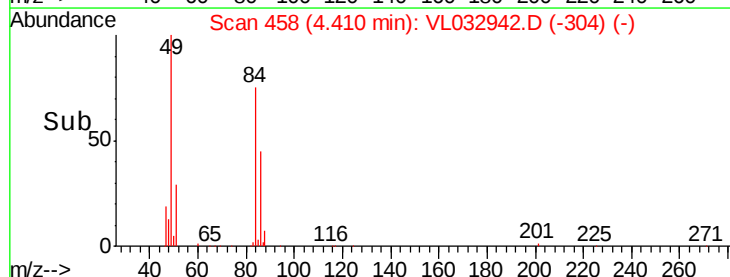
40000

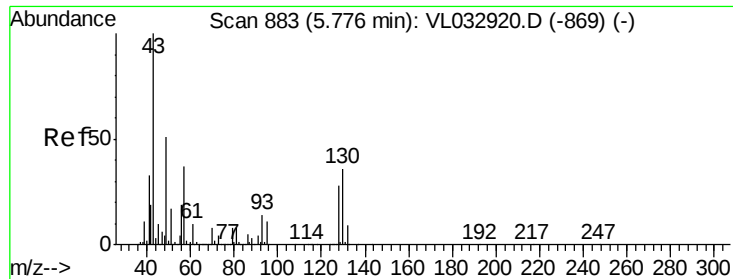
20000

0

4.40 4.45

Time-->

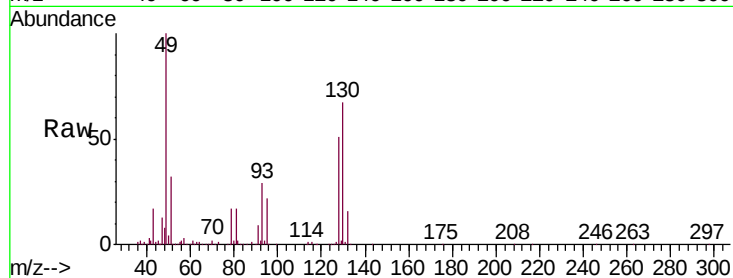




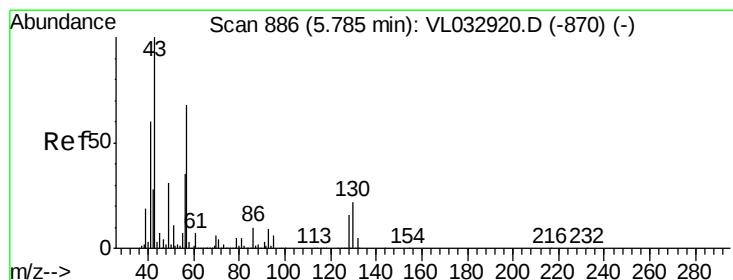
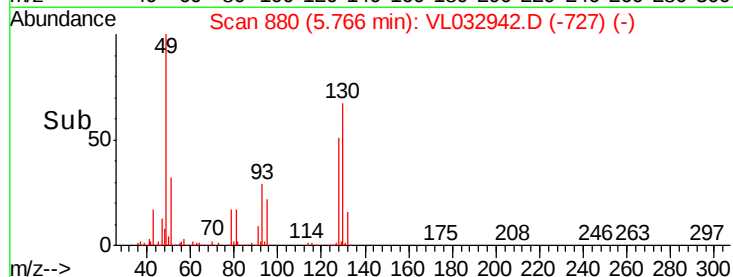
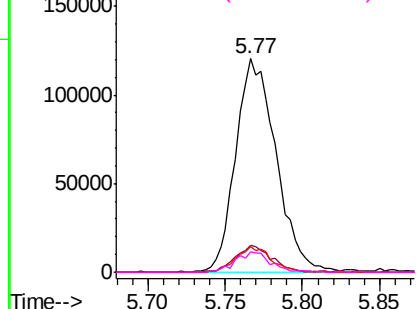
#25
Ethyl Acetate
Concen: 0.772 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.01 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

Instrument :
MSVOA_L
ClientSampled :
IA4DL

Tgt Ion:	43	Resp:	216796
Ion	Ratio	Lower	Upper
43	100		
45	11.8	7.8	11.6#
61	10.7	7.4	11.2
70	8.5	5.7	8.5

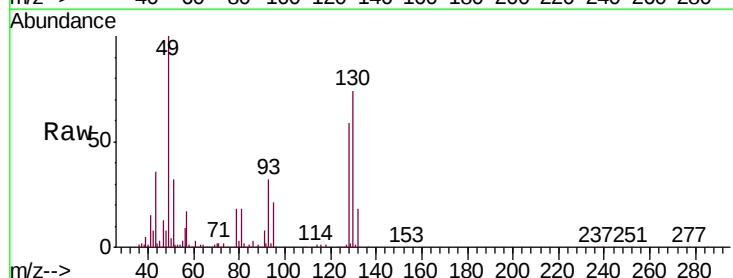


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

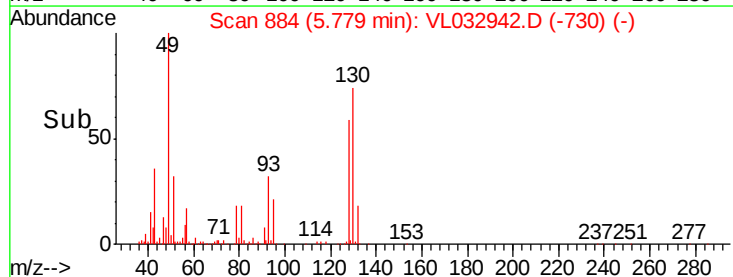
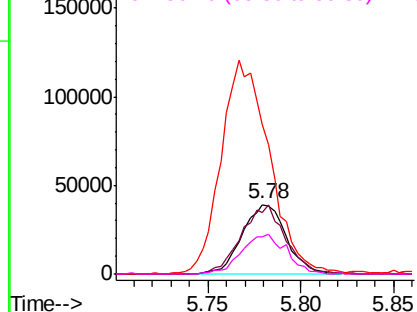


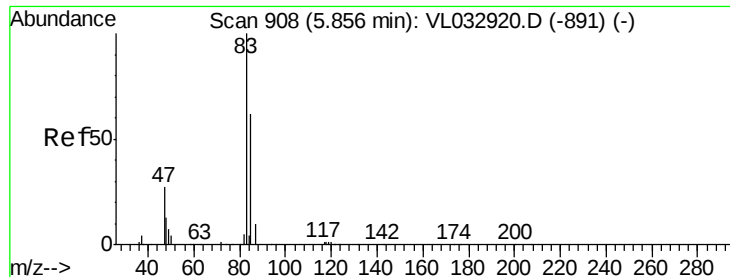
#26
Hexane
Concen: 0.500 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

Tgt Ion:	57	Resp:	64775
Ion	Ratio	Lower	Upper
57	100		
41	100.0	72.2	108.2
43	339.6	171.9	257.9#
56	58.4	42.2	63.2



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

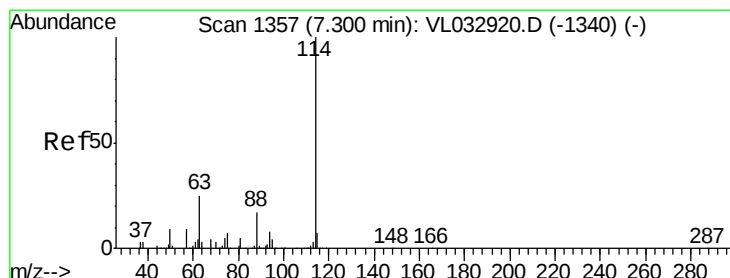
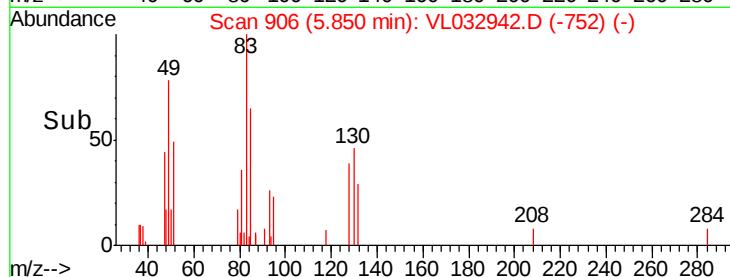
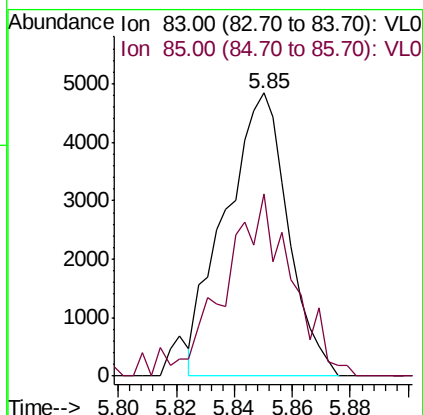
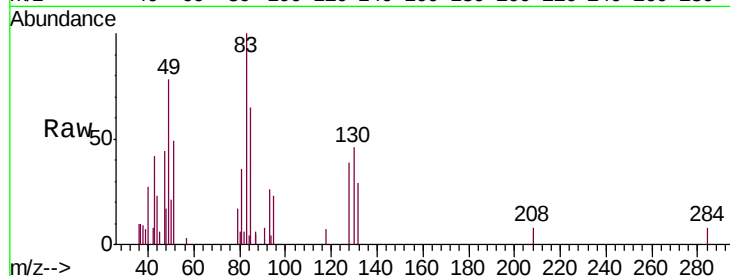




#29
Chloroform
Concen: 0.032 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

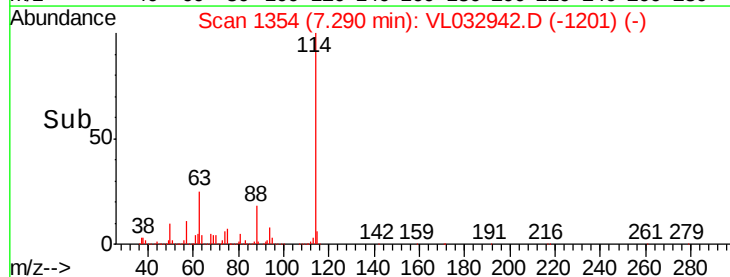
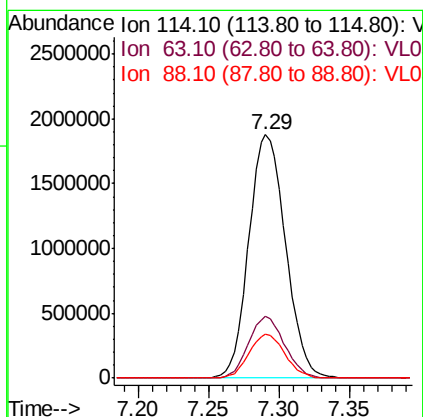
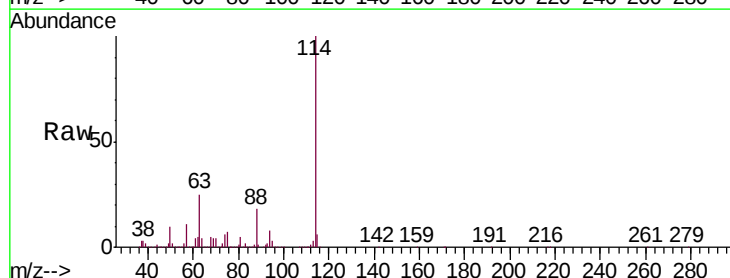
Instrument :
MSVOA_L
ClientSampleId :
IA4DL

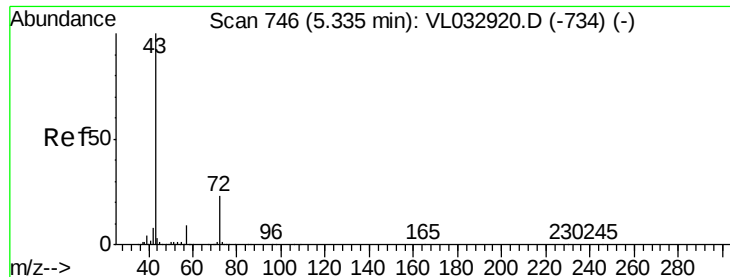
Tgt Ion: 83 Resp: 7313
Ion Ratio Lower Upper
83 100
85 60.9 49.8 74.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

Tgt Ion: 114 Resp: 3425736
Ion Ratio Lower Upper
114 100
63 25.0 20.1 30.1
88 17.7 14.2 21.4

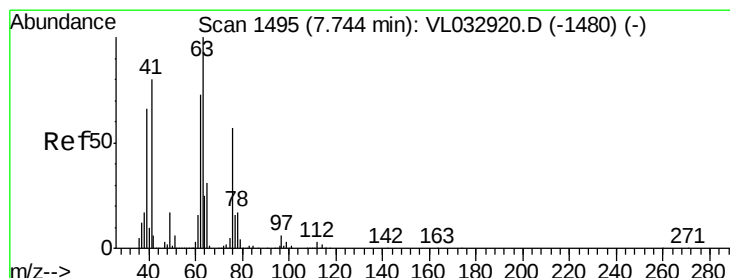
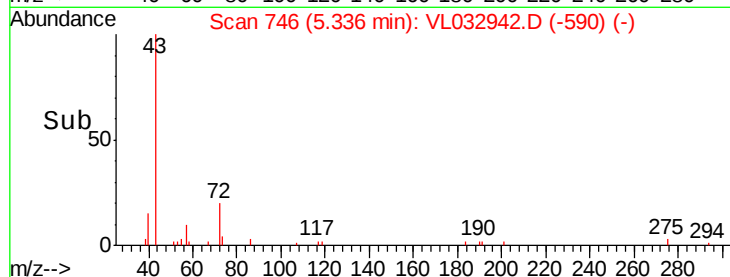
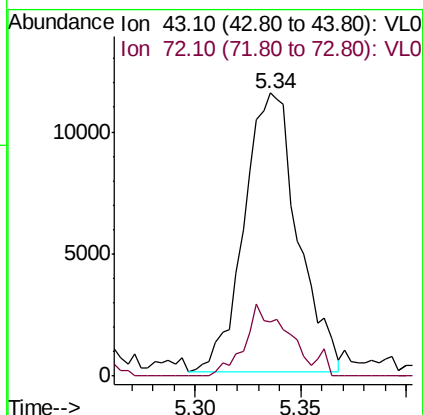
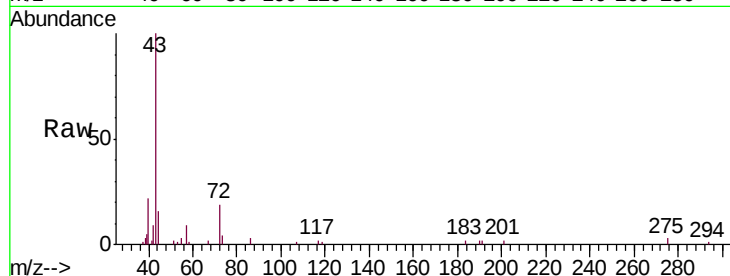




#34
2-Butanone
Concen: 0.135 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

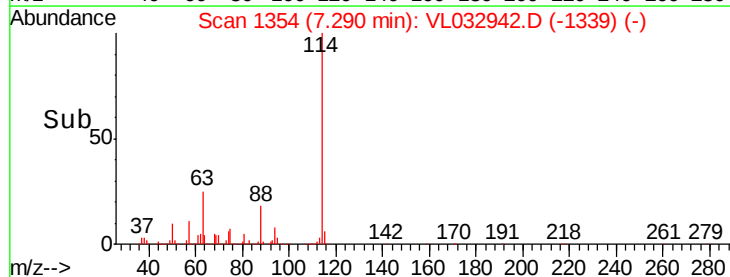
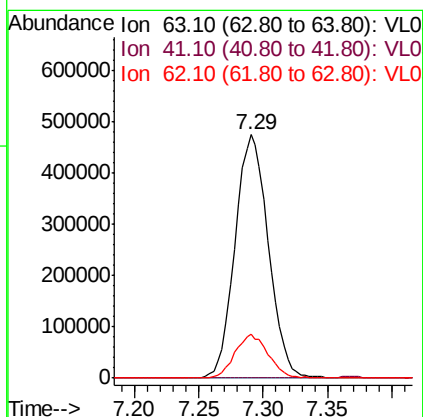
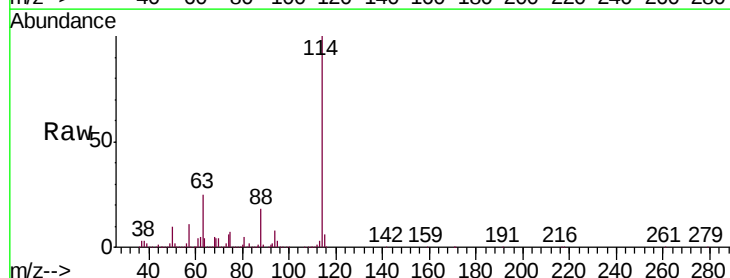
Instrument :
MSVOA_L
ClientSampleId :
IA4DL

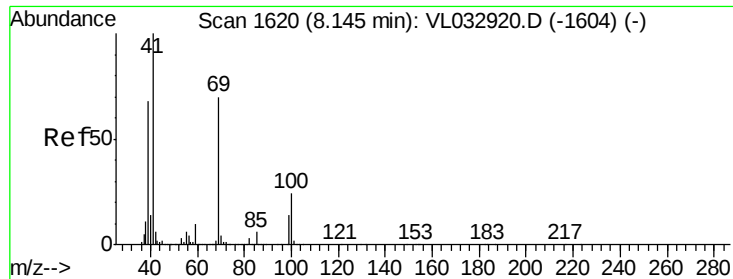
Tgt Ion: 43 Resp: 20185
Ion Ratio Lower Upper
43 100
72 21.8 18.8 28.2



#39
1,2-Dichloropropane
Concen: 8.937 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.45 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

Tgt Ion: 63 Resp: 854035
Ion Ratio Lower Upper
63 100
41 0.0 63.9 95.9#
62 18.3 58.8 88.2#

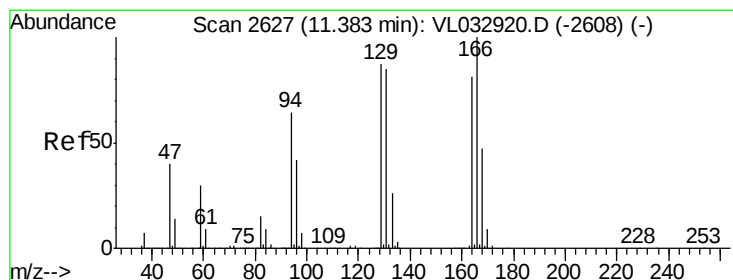
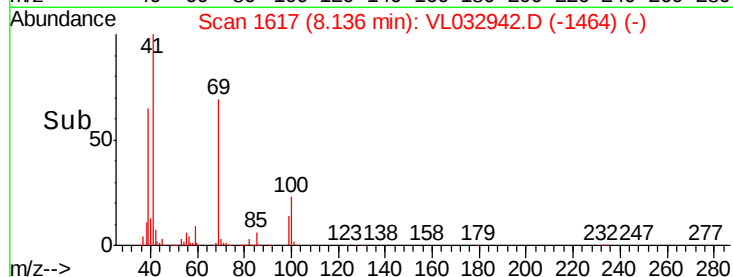
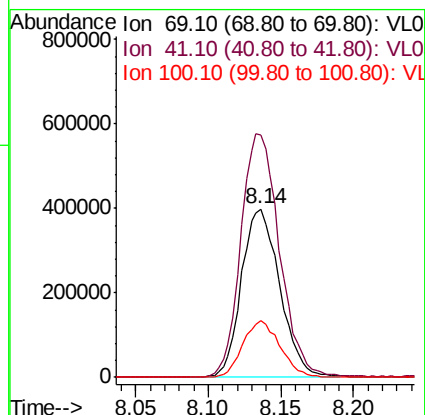
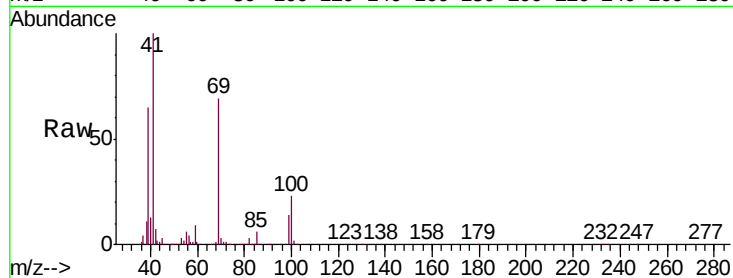




#43
Methyl Methacrylate
Concen: 7.862 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

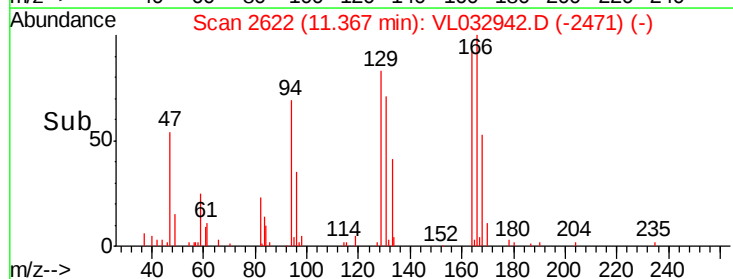
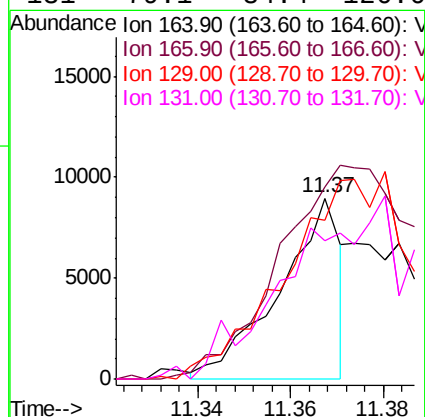
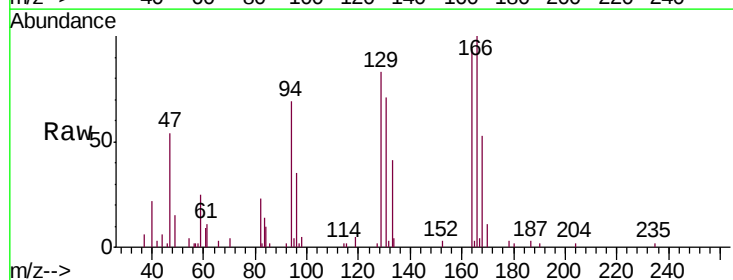
Instrument :
MSVOA_L
ClientSampleId :
IA4DL

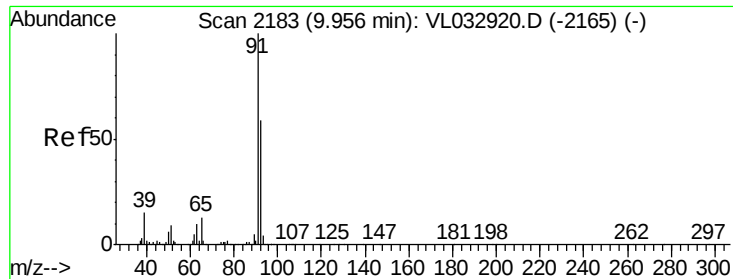
Tgt Ion: 69 Resp: 734034
Ion Ratio Lower Upper
69 100
41 146.7 116.6 175.0
100 33.0 26.5 39.7



#52
Tetrachloroethene
Concen: 0.089 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.02 min
Lab File: VL032942.D
Acq: 7 Dec 2018 19:51

Tgt Ion: 164 Resp: 8169
Ion Ratio Lower Upper
164 100
166 107.1 98.8 148.2
129 84.4 85.5 128.3#
131 79.1 84.4 126.6#





#53

Toluene

Concen: 0.369 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

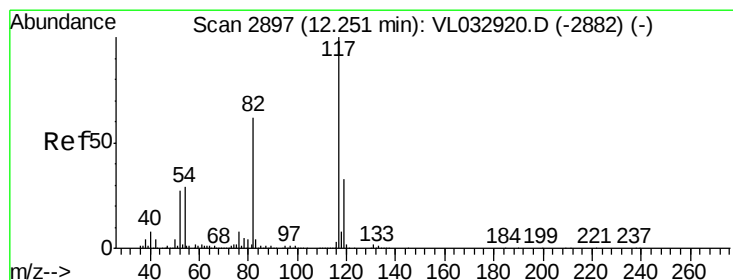
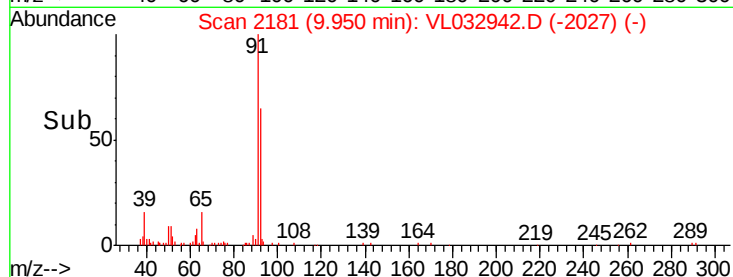
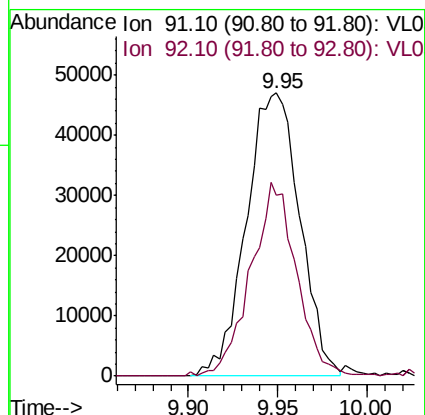
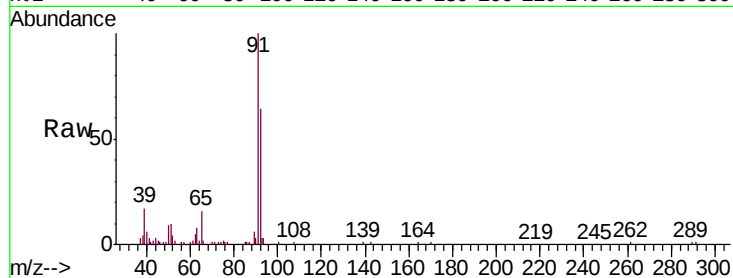
IA4DL

Tgt Ion: 91 Resp: 98589

Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

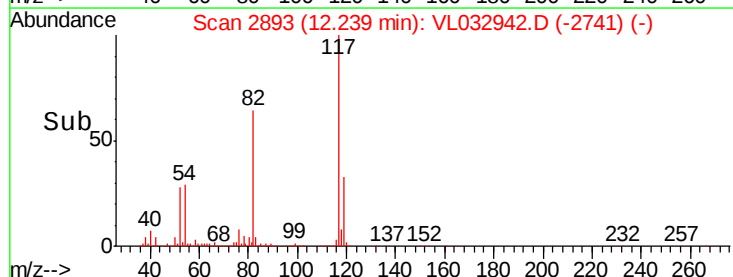
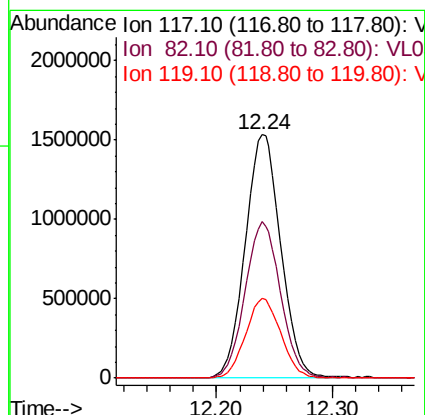
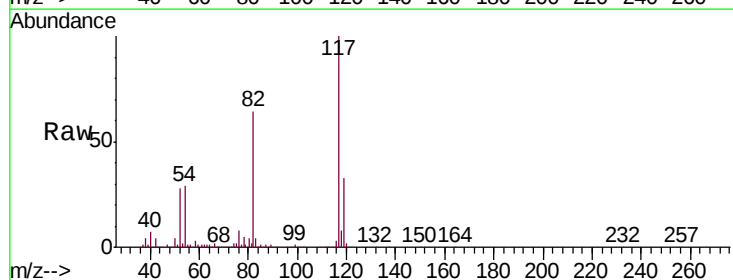
Tgt Ion: 117 Resp: 3277904

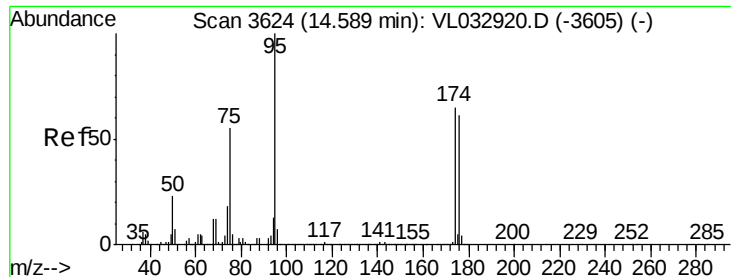
Ion Ratio Lower Upper

117 100

82 64.0 47.8 71.8

119 32.6 43.1 64.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.325 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL032942.D

Acq: 7 Dec 2018 19:51

Instrument :

MSVOA_L

ClientSampleId :

IA4DL

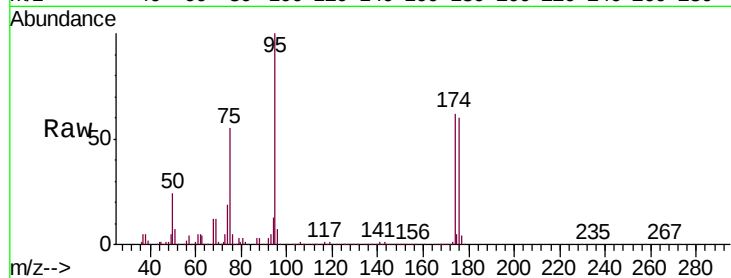
Tgt Ion: 95 Resp: 2500265

Ion Ratio Lower Upper

95 100

174 64.7 51.4 77.0

175 4.8 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

