

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033342.D
 Acq On : 15 Mar 2019 22:21
 Operator : SY/AP
 Sample : K1827-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 16 03:58:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	755171	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1761689	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1896122	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1448148	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

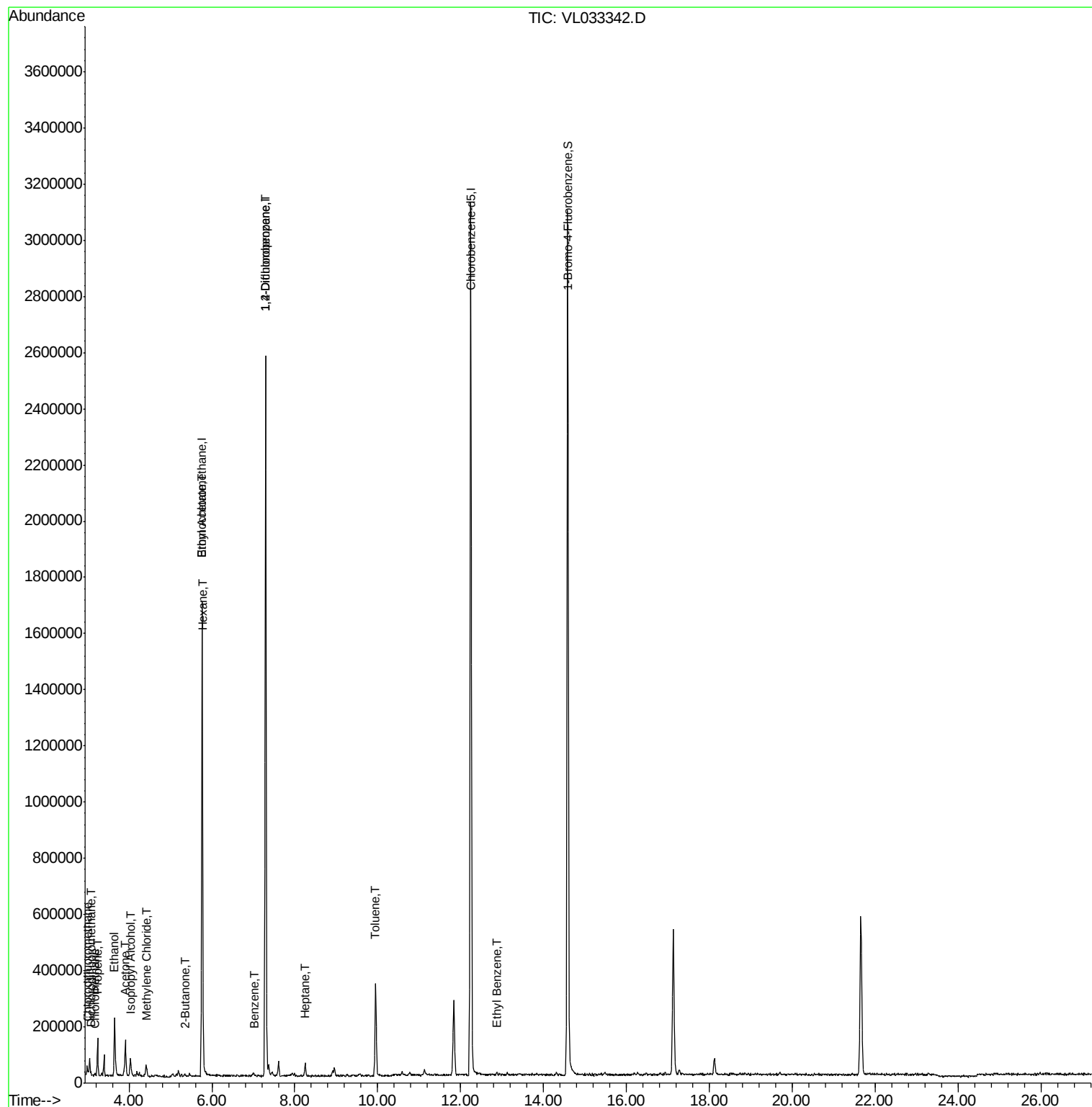
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	7345	0.055	ppbv #	76
3) Chlorodifluoromethane	2.99	51	29732	0.343	ppbv #	75
4) Chloromethane	3.17	50	2000	0.043	ppbv #	73
9) Propene	3.24	41	34425	0.890	ppbv	99
10) Heptane	8.25	43	8074	0.084	ppbv #	24
13) Ethanol	3.65	45	216667	11.746	ppbv	99
15) Acetone	3.90	43	126372	1.077	ppbv	99
19) Isopropyl Alcohol	4.03	45	37190	0.666	ppbv #	88
20) Methylene Chloride	4.42	84	14175	0.370	ppbv #	76
25) Ethyl Acetate	5.77	43	14703	0.086	ppbv #	78
26) Hexane	5.78	57	9044	0.119	ppbv #	1
34) 2-Butanone	5.34	43	5416	0.047	ppbv #	54
36) Benzene	7.01	78	4507	0.029	ppbv #	77
39) 1,2-Dichloropropane	7.29	63	473475	8.019	ppbv #	25
53) Toluene	9.95	91	244636	1.366	ppbv	98
58) Ethyl Benzene	12.86	91	5366	0.020	ppbv	90

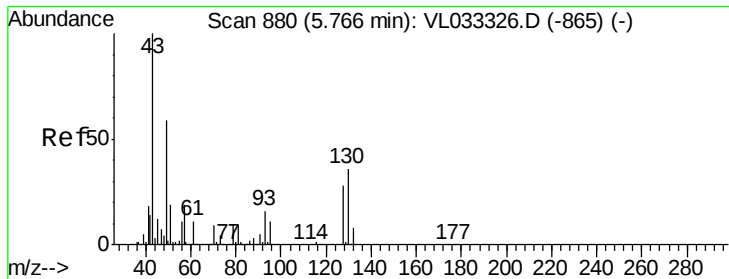
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :
MSVOA_L
ClientSampleId :

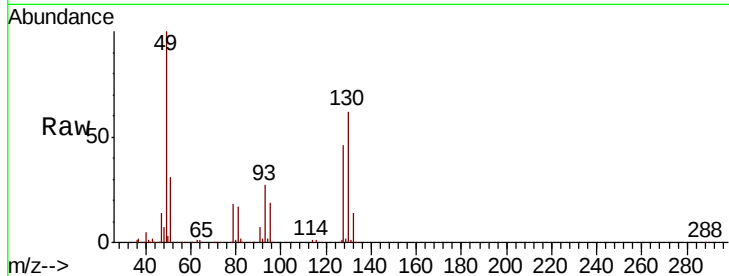
Tot Ion: 49 Resp: 755171

Ion Ratio Lower Upper

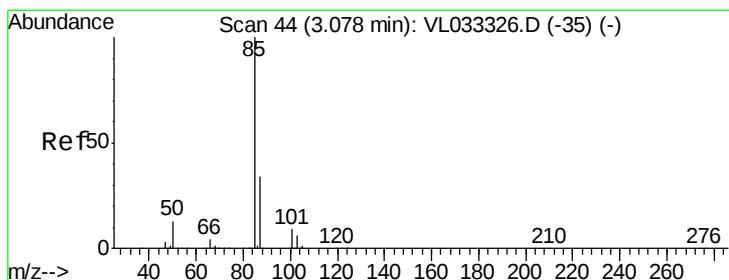
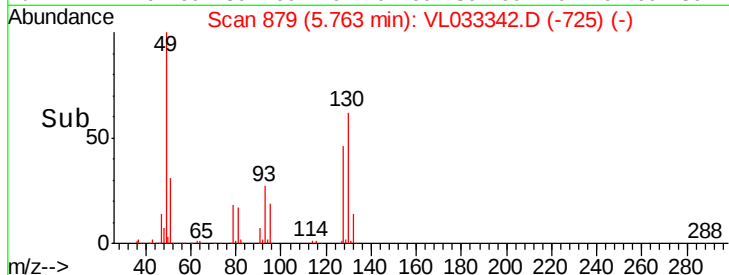
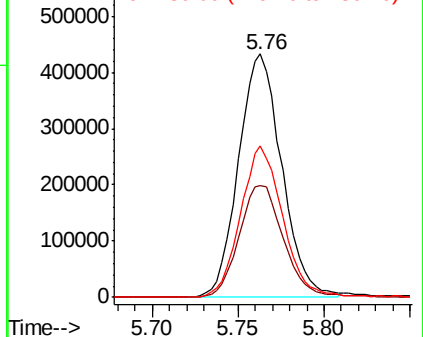
49 100

128 47.8 23.5 70.6

130 61.4 30.1 90.3



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: 0.055 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033342.D

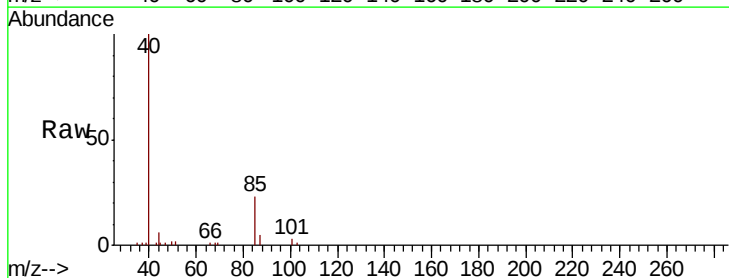
Acq: 15 Mar 2019 22:21

Tgt Ion: 85 Resp: 7345

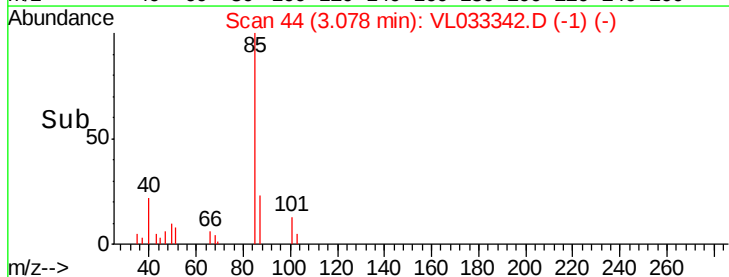
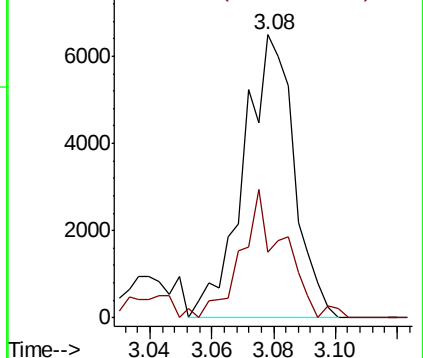
Ion Ratio Lower Upper

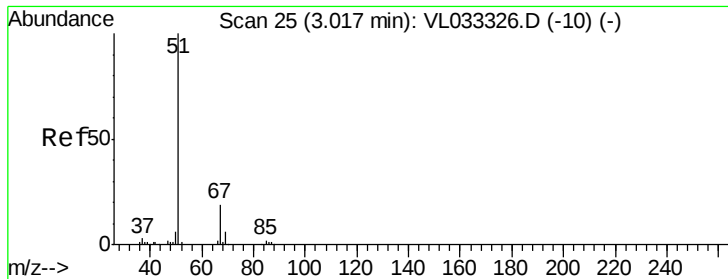
85 100

87 20.2 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

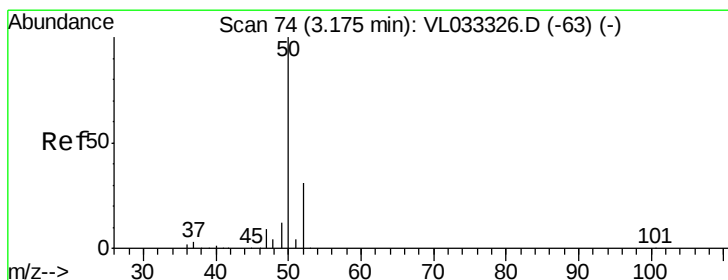
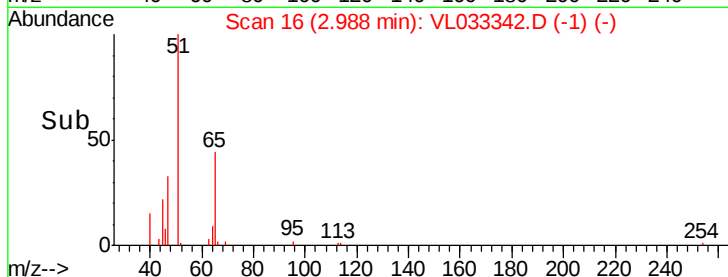
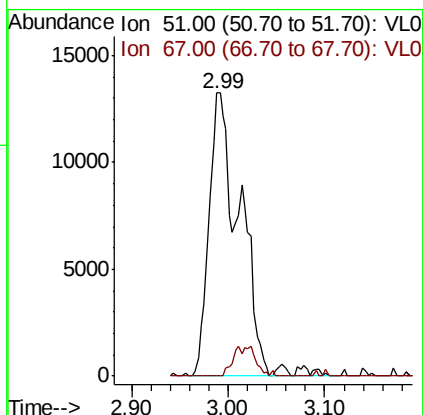
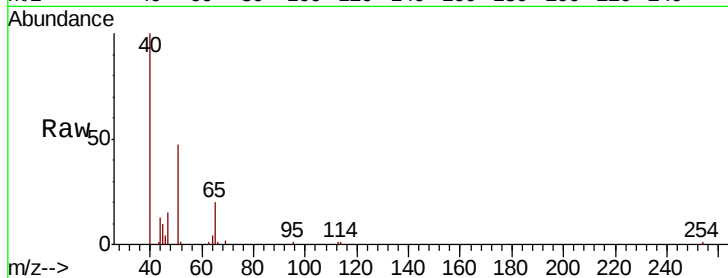




#3
Chlorodifluoromethane
Concen: 0.343 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.03 min
Lab File: VL033342.D
Acq: 15 Mar 2019 22:21

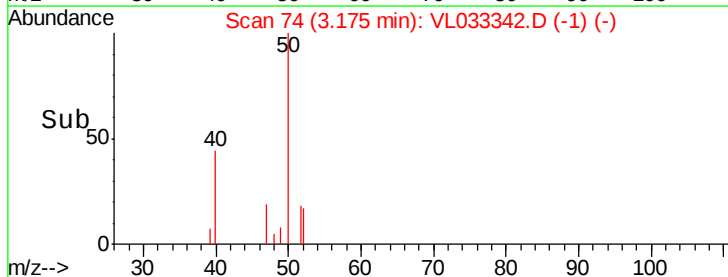
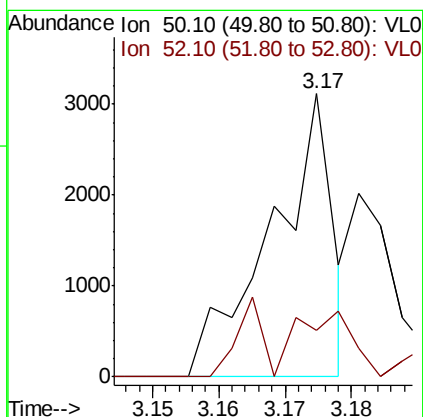
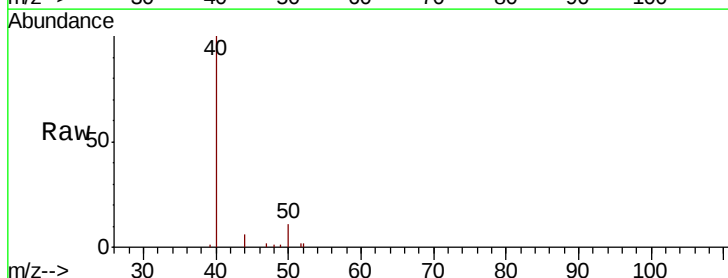
Instrument :
MSVOA_L
ClientSampled :

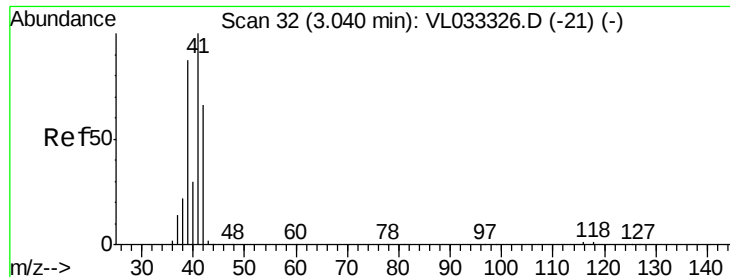
Tot Ion: 51 Resp: 29732
Ion Ratio Lower Upper
51 100
67 7.6 14.9 22.3#



#4
Chloromethane
Concen: 0.043 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL033342.D
Acq: 15 Mar 2019 22:21

Tgt Ion: 50 Resp: 2000
Ion Ratio Lower Upper
50 100
52 16.5 25.0 37.6#





#9

Propene

Concen: 0.890 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :

MSVOA_L

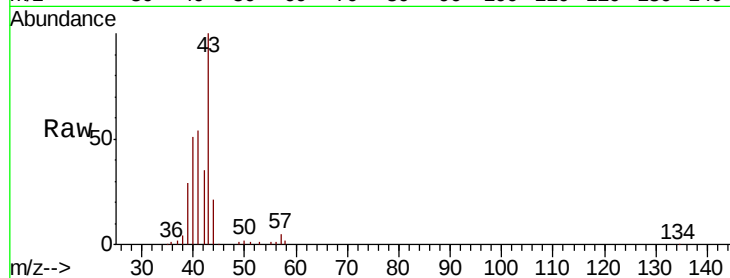
ClientSampleId :

Tot Ion: 41 Resp: 34425

Ion Ratio Lower Upper

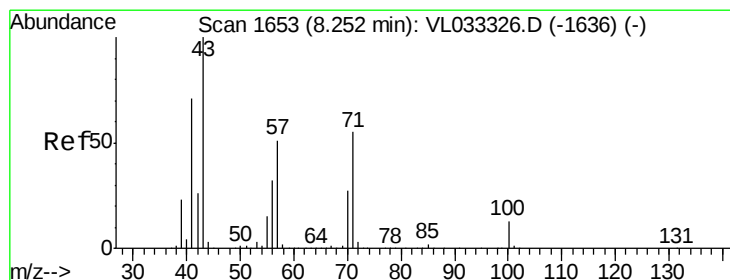
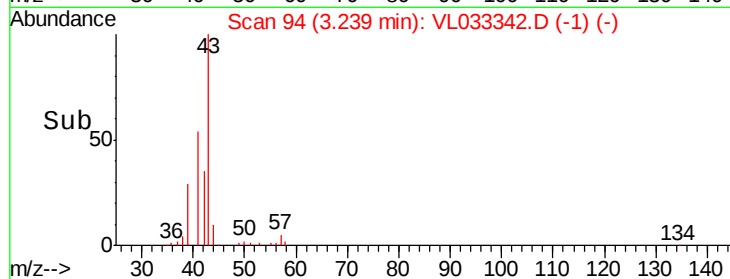
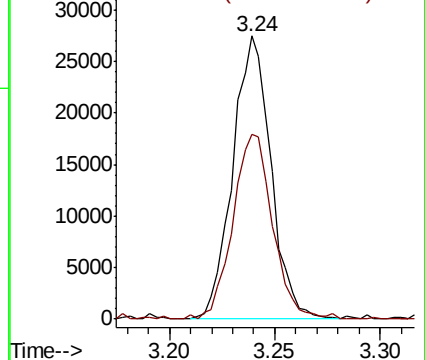
41 100

42 68.0 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.084 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033342.D

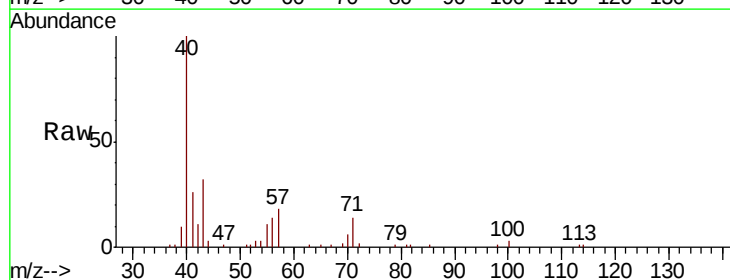
Acq: 15 Mar 2019 22:21

Tgt Ion: 43 Resp: 8074

Ion Ratio Lower Upper

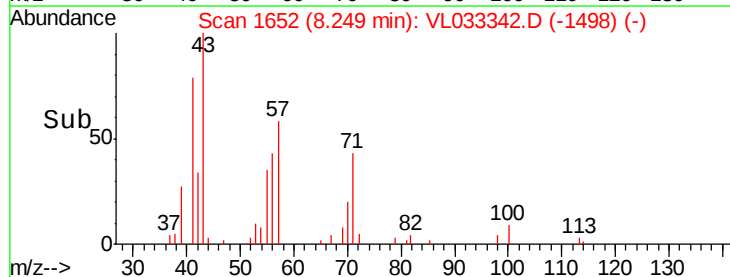
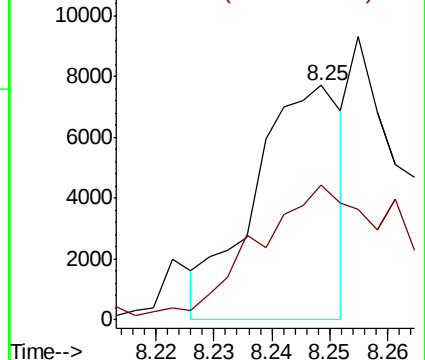
43 100

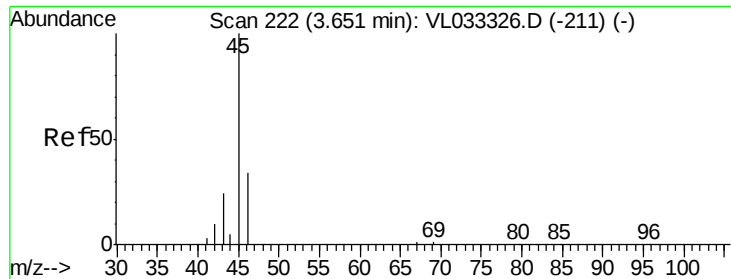
57 103.4 40.4 60.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 11.746 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :

MSVOA_L

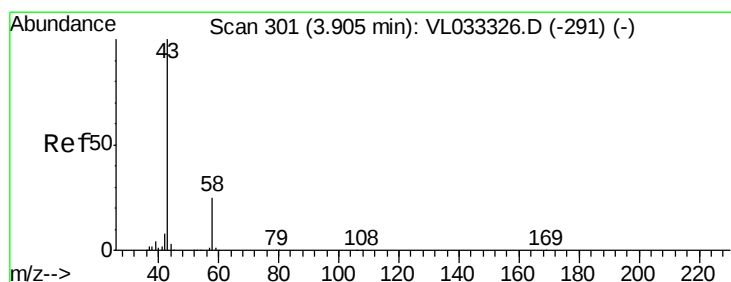
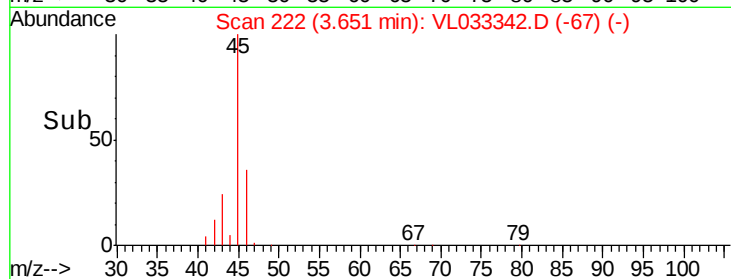
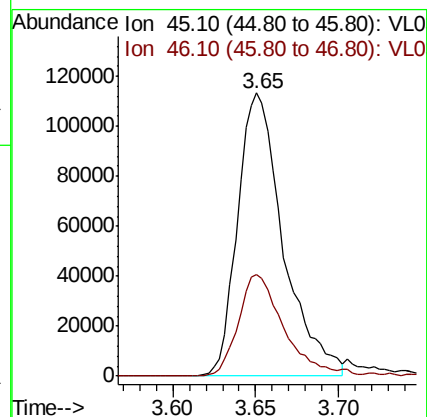
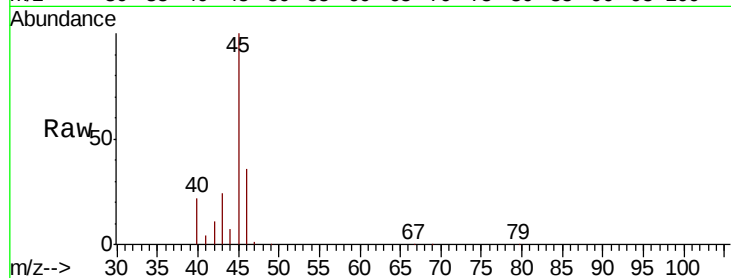
ClientSampled :

Tot Ion: 45 Resp: 216667

Ion Ratio Lower Upper

45 100

46 36.5 14.9 59.7



#15

Acetone

Concen: 1.077 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033342.D

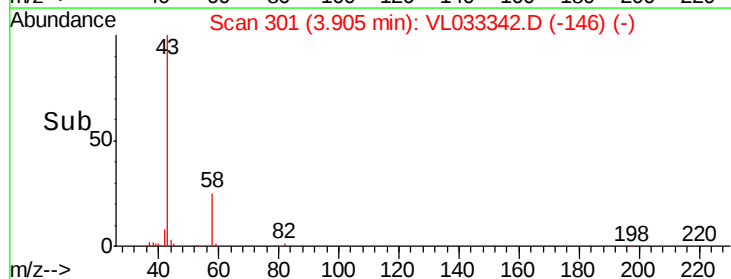
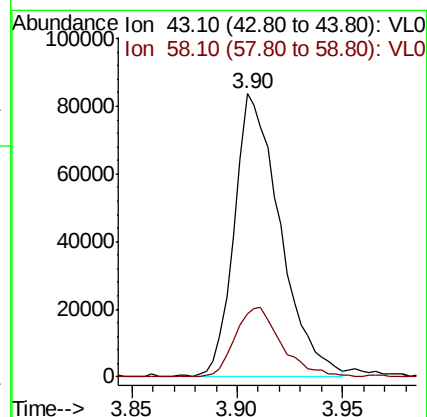
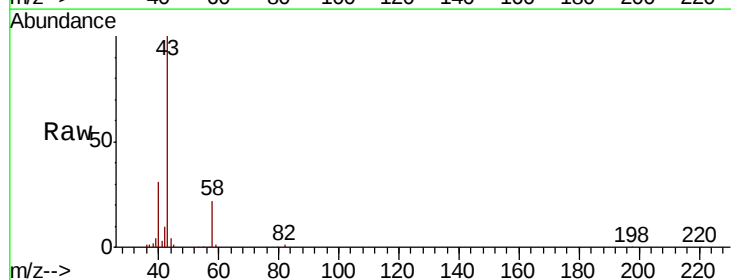
Acq: 15 Mar 2019 22:21

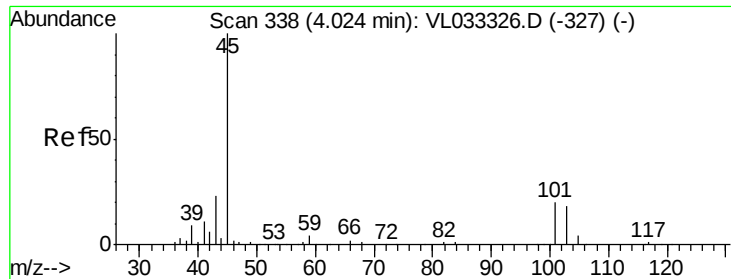
Tgt Ion: 43 Resp: 126372

Ion Ratio Lower Upper

43 100

58 25.1 20.4 30.6





#19

Isopropyl Alcohol

Concen: 0.666 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :

MSVOA_L

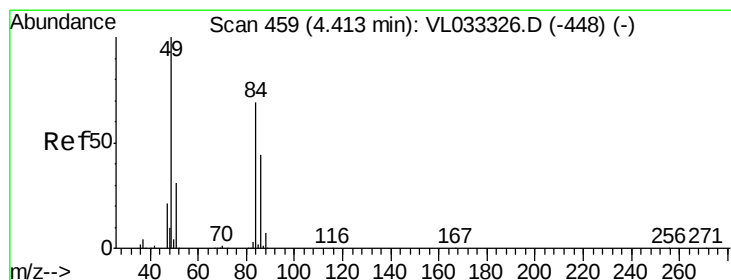
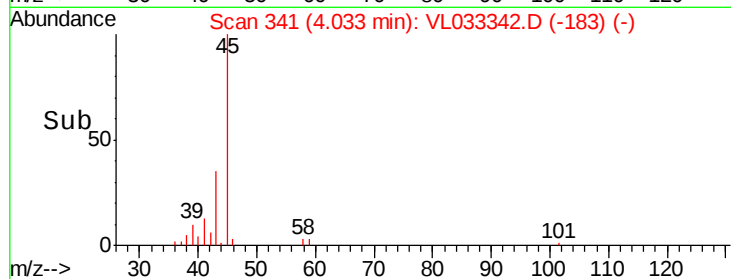
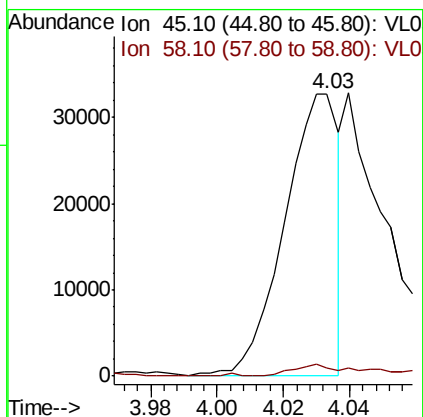
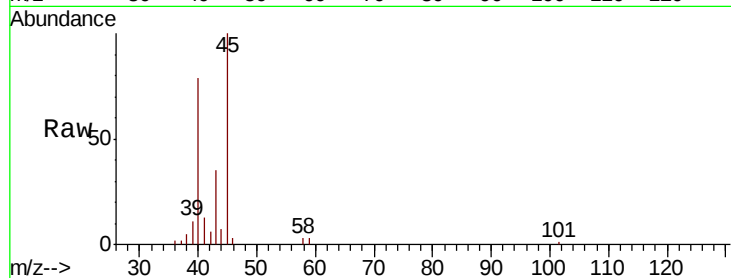
ClientSampleId :

Tot Ion: 45 Resp: 37190

Ion Ratio Lower Upper

45 100

58 6.3 1.5 2.3#



#20

Methylene Chloride

Concen: 0.370 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.01 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Tgt Ion: 84 Resp: 14175

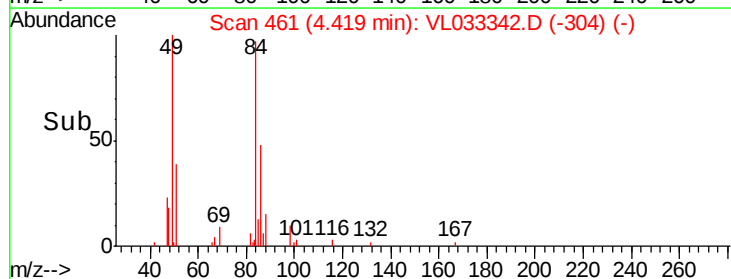
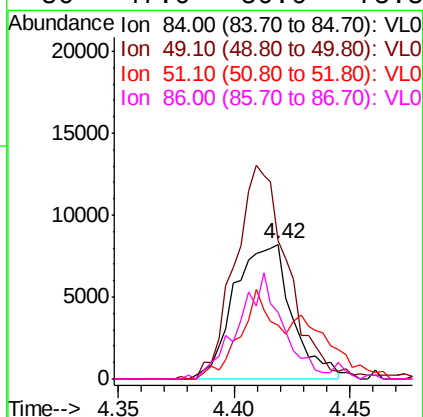
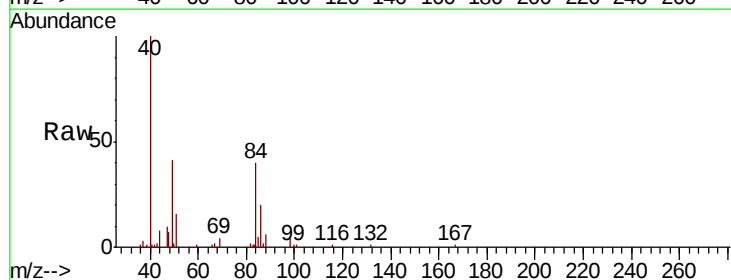
Ion Ratio Lower Upper

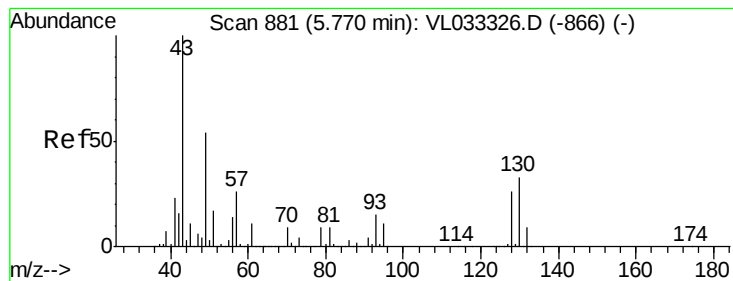
84 100

49 107.3 115.4 173.0#

51 39.8 35.8 53.6

86 47.0 50.6 75.8#





#25

Ethyl Acetate

Concen: 0.086 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 14703

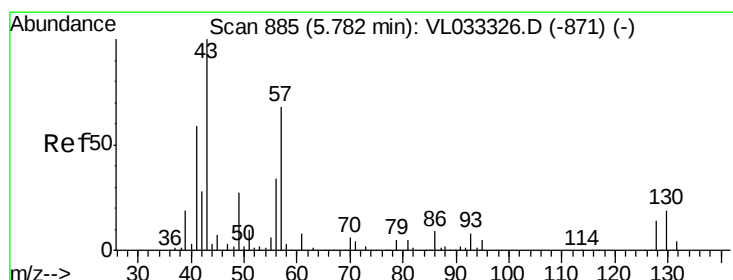
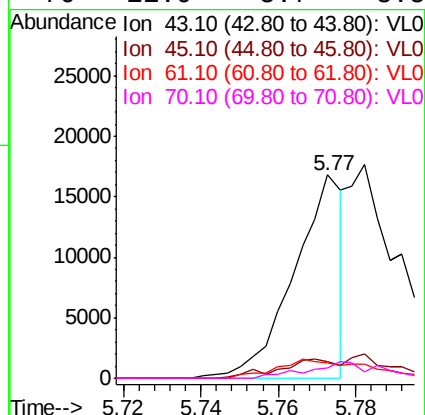
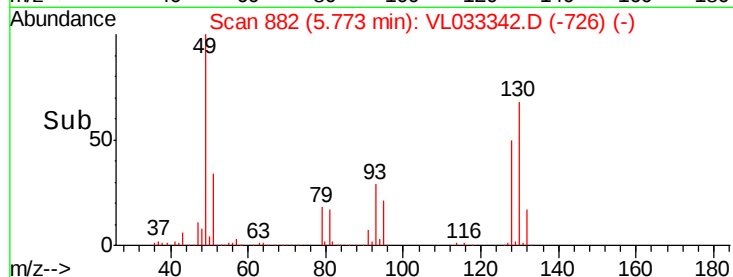
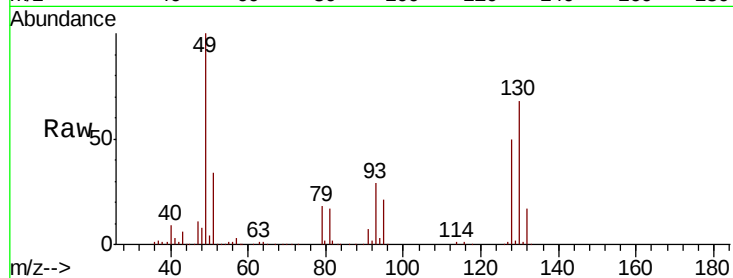
Ion Ratio Lower Upper

43 100

45 0.0 7.9 11.9#

61 17.7 7.4 11.2#

70 11.9 5.7 8.5#



#26

Hexane

Concen: 0.119 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Tgt Ion: 57 Resp: 9044

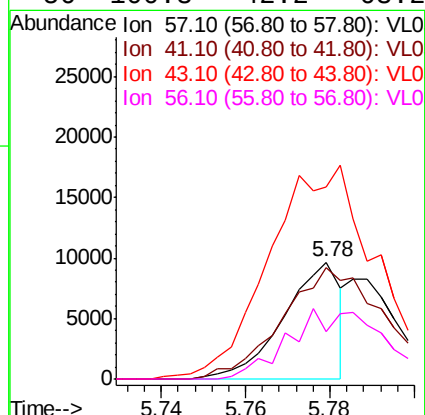
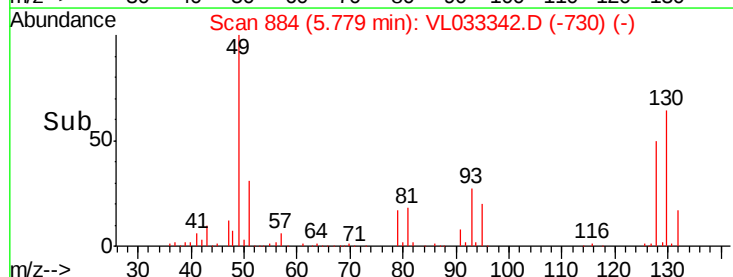
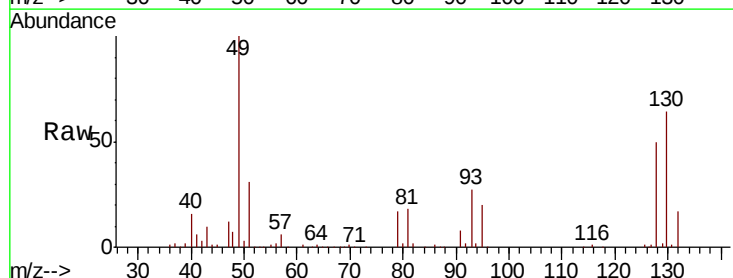
Ion Ratio Lower Upper

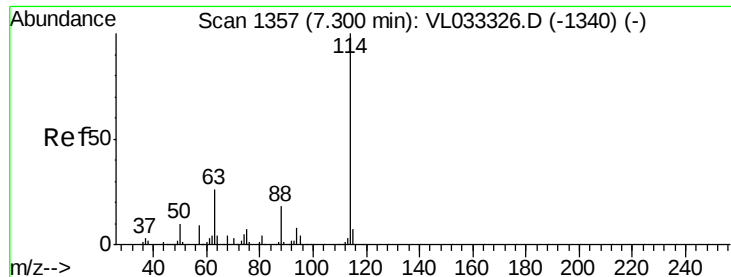
57 100

41 171.9 70.5 105.7#

43 0.0 181.8 272.8#

56 100.3 42.2 63.2#

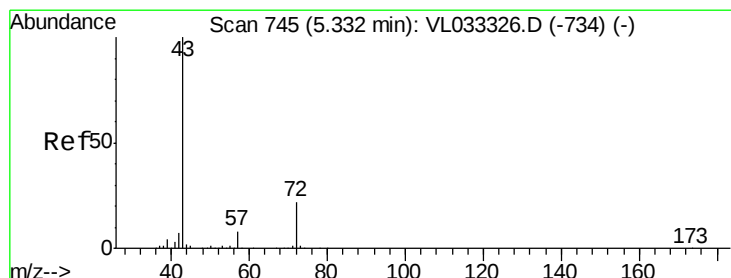
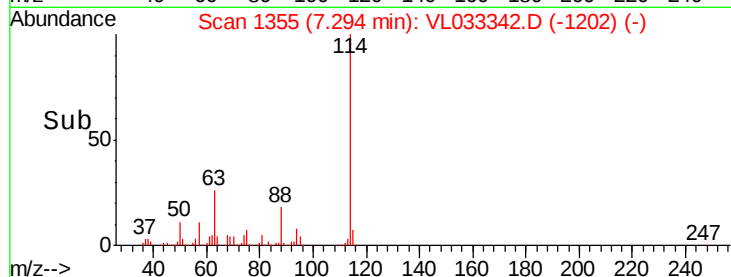
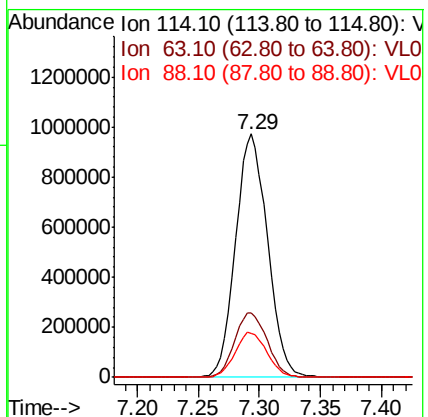
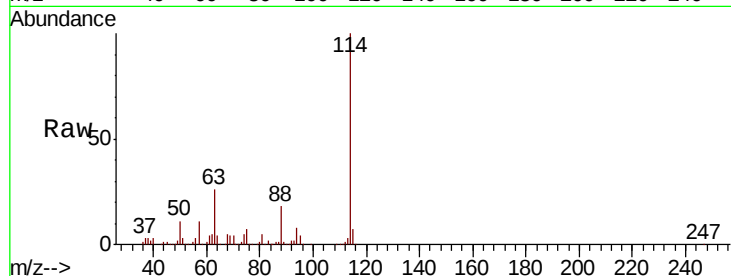




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033342.D
 Acq: 15 Mar 2019 22:21

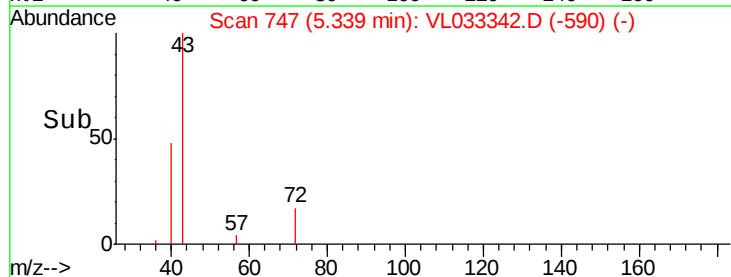
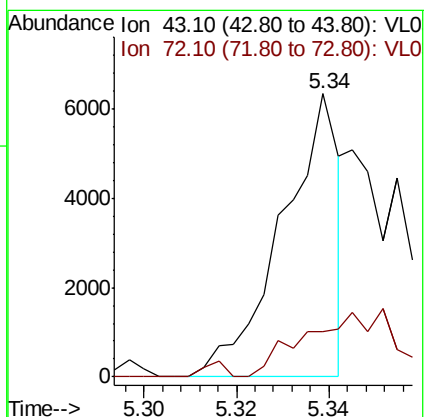
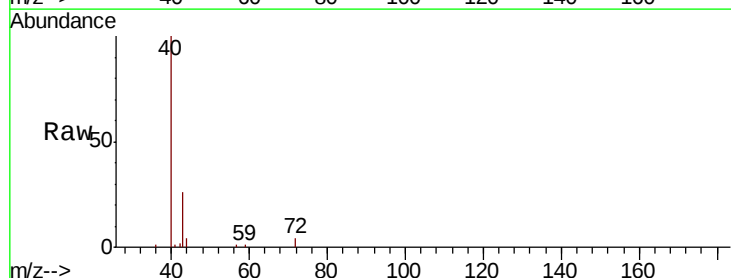
Instrument :
 MSVOA_L
 ClientSampleId :

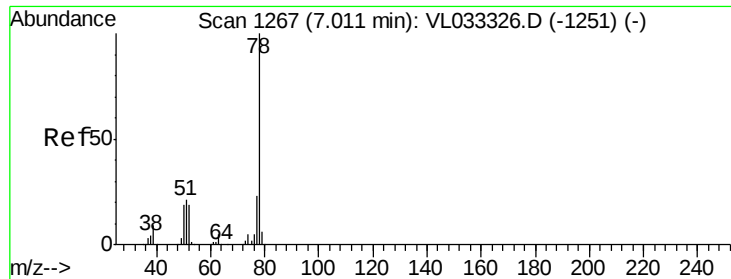
Tot Ion:114 Resp: 1761689
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.4 32.2
 88 18.5 14.5 21.7



#34
 2-Butanone
 Concen: 0.047 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033342.D
 Acq: 15 Mar 2019 22:21

Tgt Ion: 43 Resp: 5416
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.7 26.5#

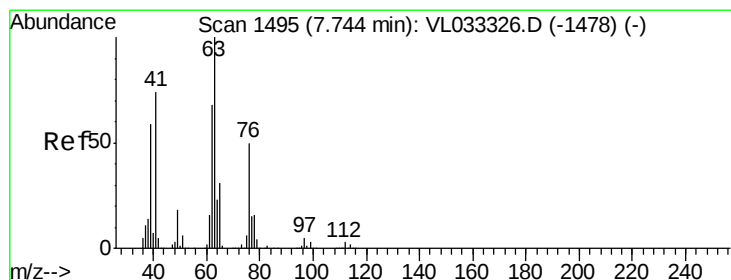
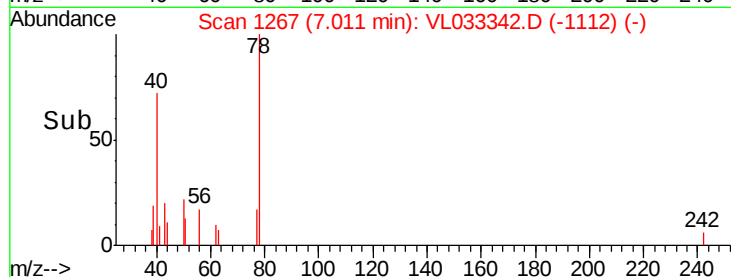
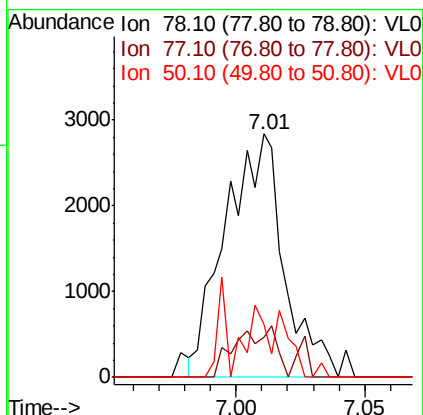
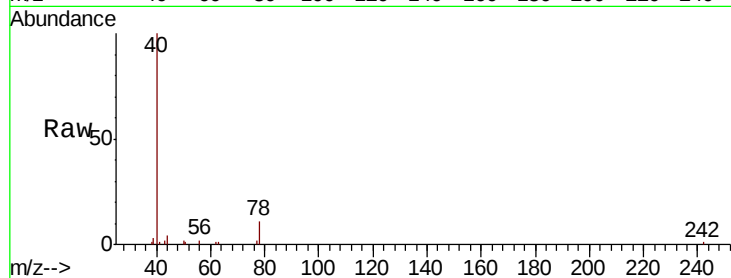




#36
Benzene
Concen: 0.029 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.00 min
Lab File: VL033342.D
Acq: 15 Mar 2019 22:21

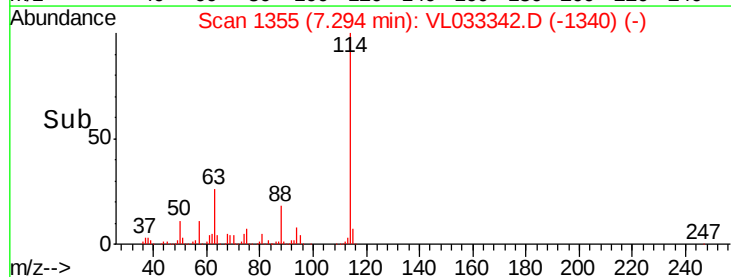
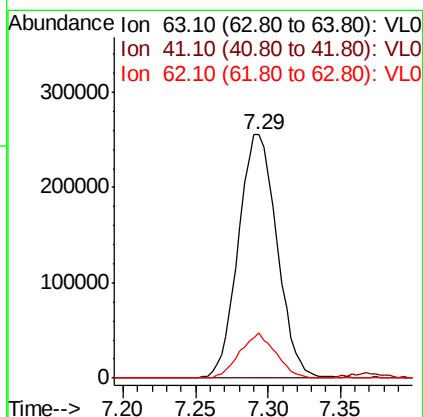
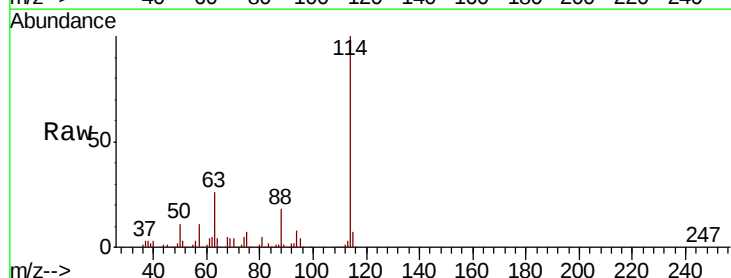
Instrument :
MSVOA_L
ClientSampleId :

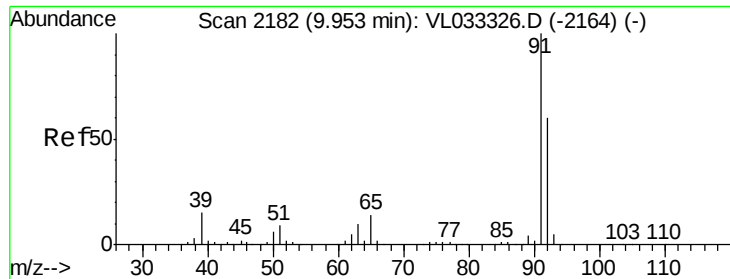
Tot Ion: 78 Resp: 4507
Ion Ratio Lower Upper
78 100
77 16.7 18.1 27.1#
50 34.8 15.2 22.8#



#39
1,2-Dichloropropane
Concen: 8.019 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.45 min
Lab File: VL033342.D
Acq: 15 Mar 2019 22:21

Tgt Ion: 63 Resp: 473475
Ion Ratio Lower Upper
63 100
41 0.0 59.5 89.3#
62 18.8 54.7 82.1#





#53

Toluene

Concen: 1.366 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :

MSVOA_L

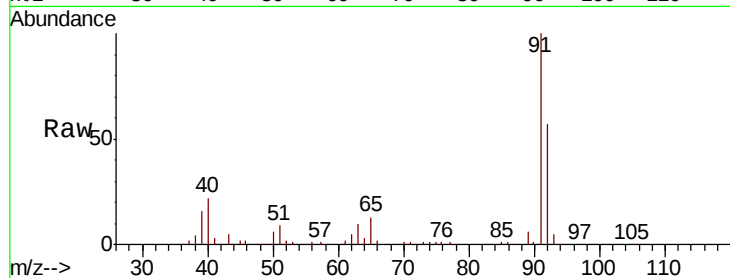
ClientSampleId :

Tot Ion: 91 Resp: 244636

Ion Ratio Lower Upper

91 100

92 57.8 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

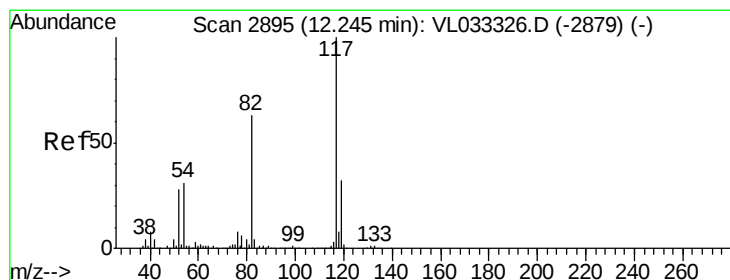
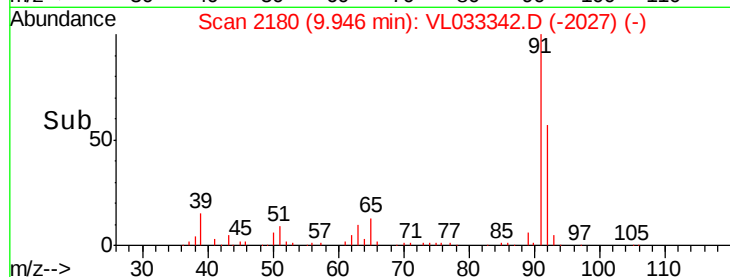
9.95

100000

50000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

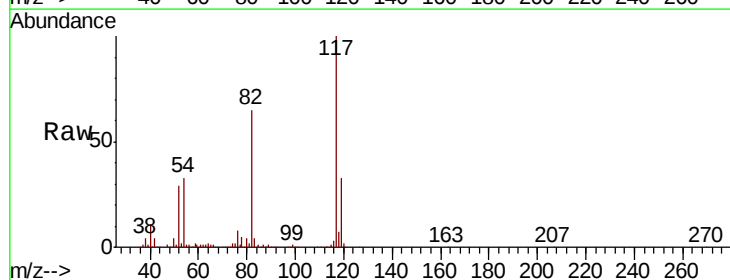
Tgt Ion: 117 Resp: 1896122

Ion Ratio Lower Upper

117 100

82 67.8 53.4 80.2

119 32.6 27.3 40.9



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

12.24

1200000

1000000

800000

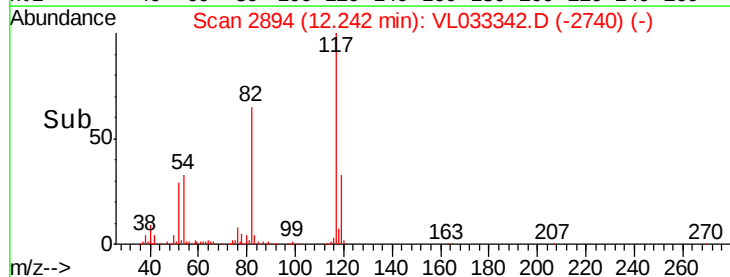
600000

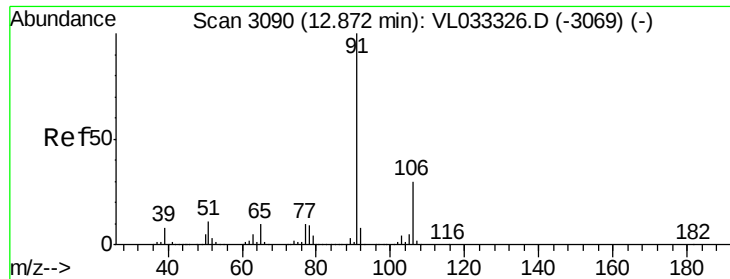
400000

200000

0

Time-->





#58

Ethyl Benzene

Concen: 0.020 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

Instrument :

MSVOA_L

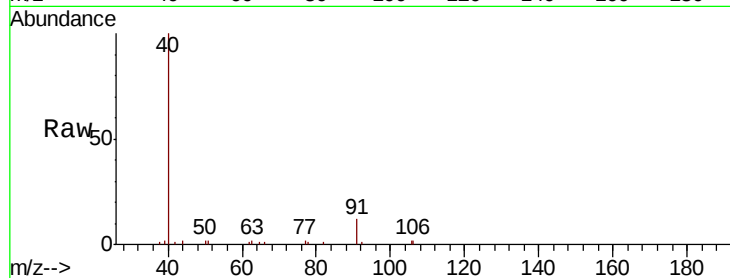
ClientSampleId :

Tot Ion: 91 Resp: 5366

Ion Ratio Lower Upper

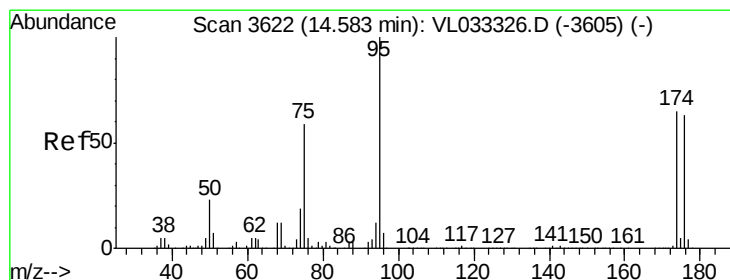
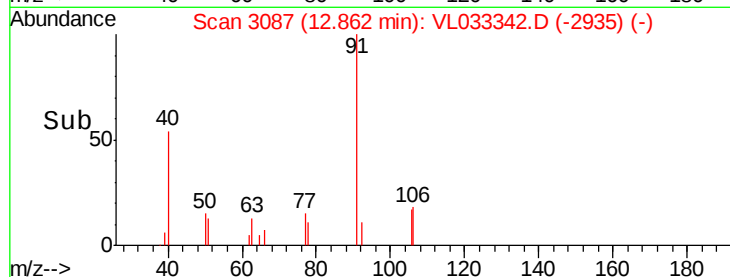
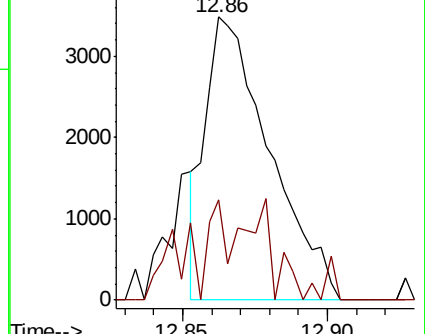
91 100

106 35.4 24.2 36.2



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: 10.307 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033342.D

Acq: 15 Mar 2019 22:21

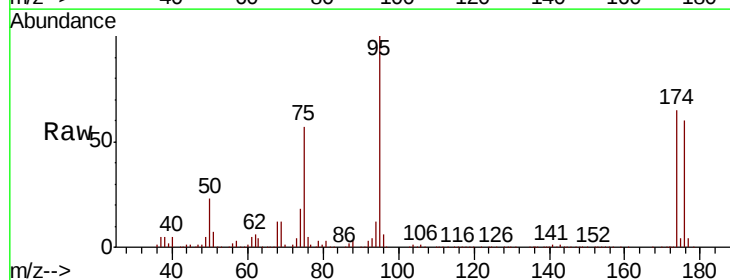
Tgt Ion: 95 Resp: 1448148

Ion Ratio Lower Upper

95 100

174 64.7 51.5 77.3

175 4.5 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

