

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033457.D
 Acq On : 26 Mar 2019 4:45
 Operator : SY/AP
 Sample : K1991-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 07:22:02 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 05:43:39 2019
 QLast Update : Tue Mar 26 05:43:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	736313	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1722961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1729160	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1335427	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

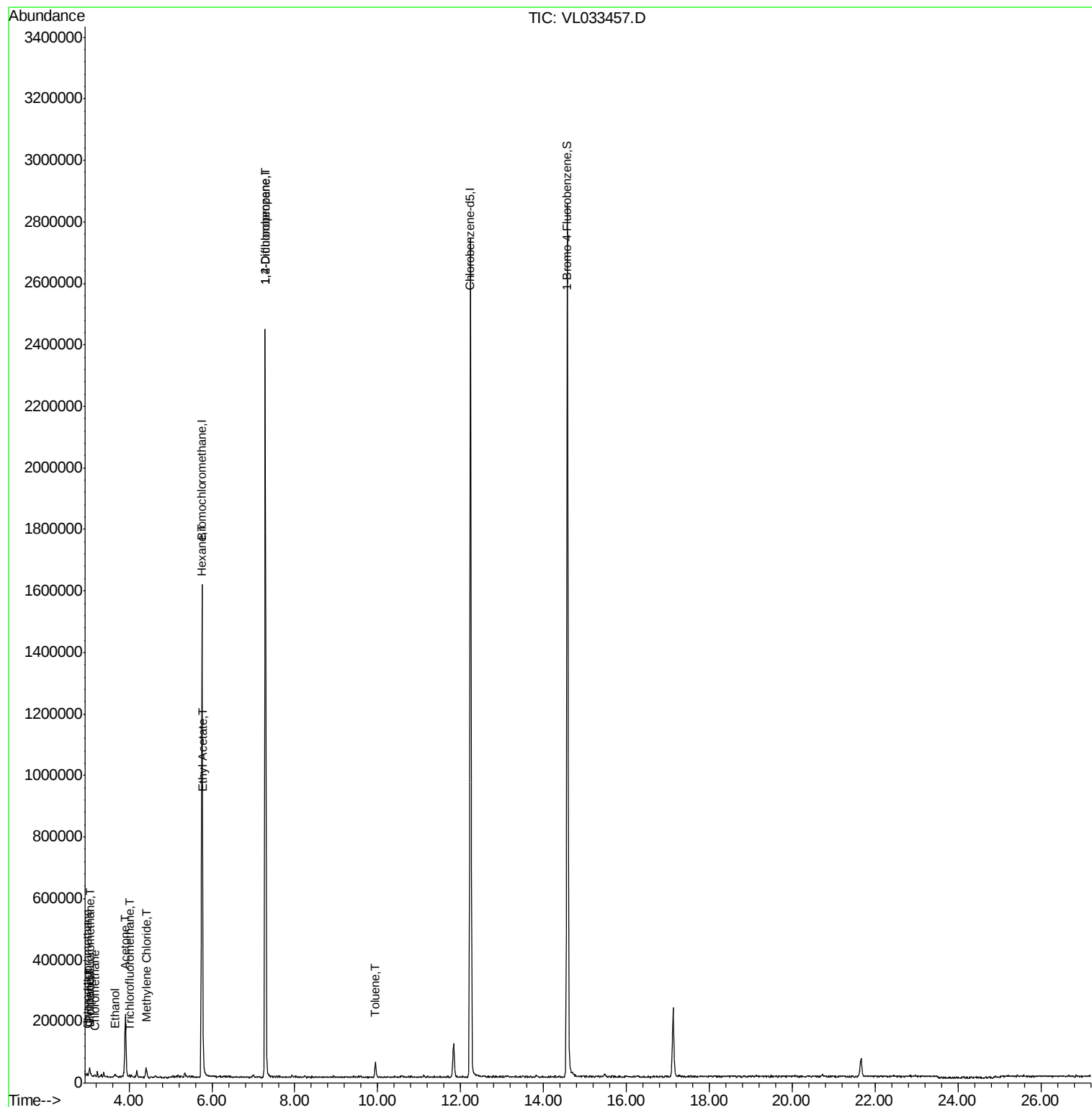
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	6565	0.061	ppbv	89
3) Chlorodifluoromethane	2.99	51	7828	0.092	ppbv #	70
4) Chloromethane	3.17	50	2493	0.056	ppbv #	53
9) Propene	3.05	41	5836	0.164	ppbv #	78
11) Trichlorofluoromethane	4.00	101	2765	0.021	ppbv	87
13) Ethanol	3.66	45	3782	0.411	ppbv #	18
15) Acetone	3.91	43	225640	2.549	ppbv	95
20) Methylene Chloride	4.41	84	9131	0.243	ppbv #	81
25) Ethyl Acetate	5.78	43	9354	0.057	ppbv #	87
26) Hexane	5.77	57	6775	0.093	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	443476	7.831	ppbv #	24
53) Toluene	9.94	91	22578	0.134	ppbv #	21

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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QLast Update : Tue Mar 26 05:43:39 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

Instrument :
MSVOA_L
ClientSampleId :

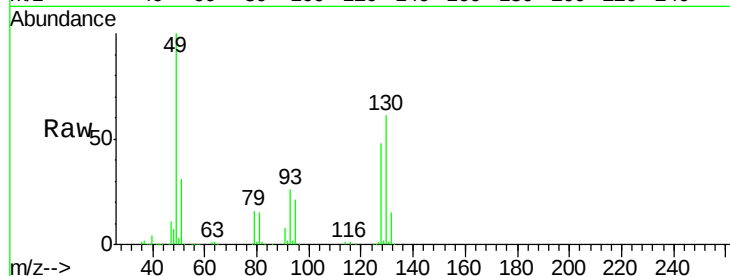
Tot Ion: 49 Resp: 736313

Ion Ratio Lower Upper

49 100

128 49.4 24.0 72.0

130 62.4 31.2 93.6



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

5.76

400000

300000

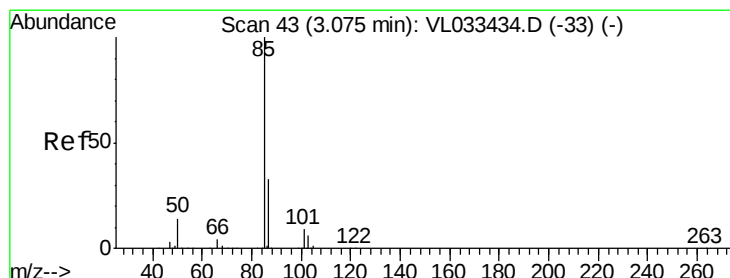
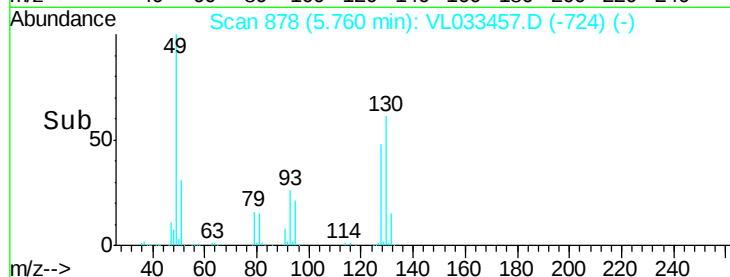
200000

100000

0

Time-->

5.70 5.75 5.80 5.85



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033457.D

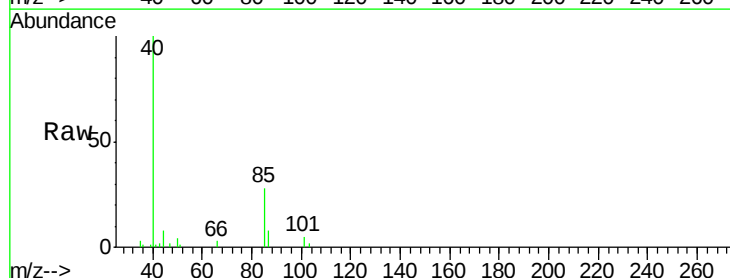
Acq: 26 Mar 2019 4:45

Tgt Ion: 85 Resp: 6565

Ion Ratio Lower Upper

85 100

87 27.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

6000

5000

4000

3000

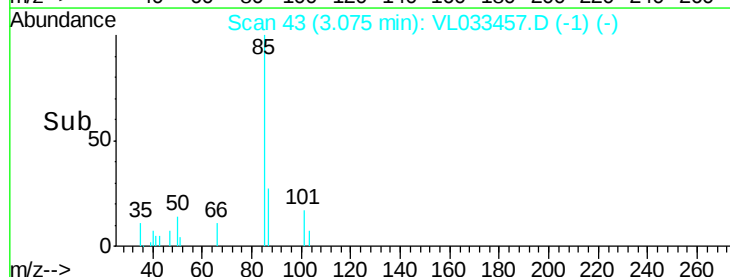
2000

1000

0

Time-->

3.04 3.06 3.08 3.10





#3

Chlorodifluoromethane

Concen: 0.092 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.02 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

Instrument :

MSVOA_L

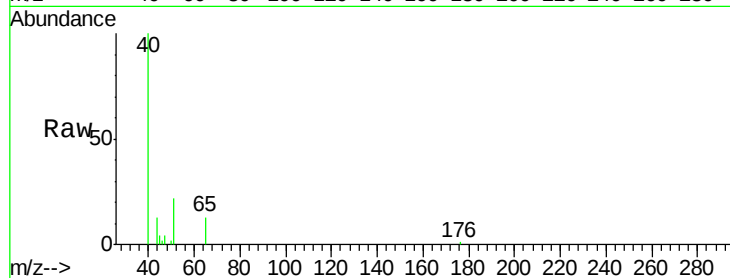
ClientSampleId :

Tot Ion: 51 Resp: 7828

Ion Ratio Lower Upper

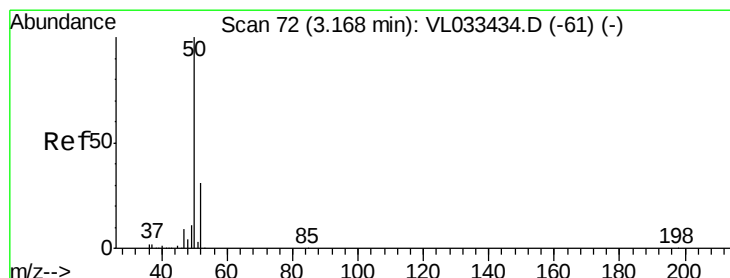
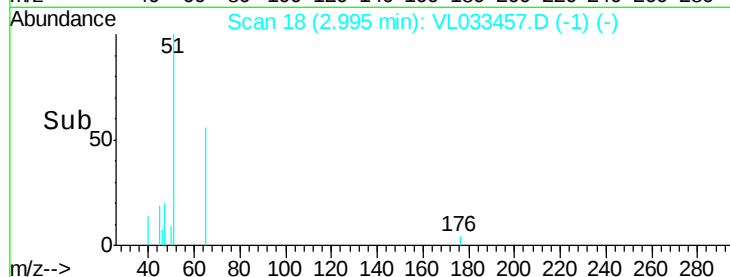
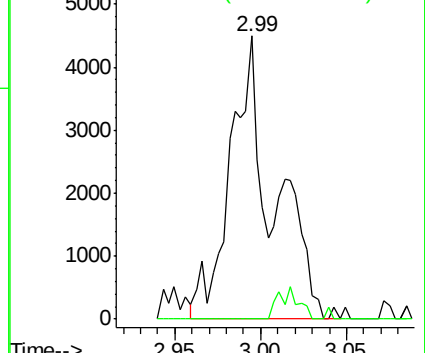
51 100

67 5.9 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033457.D

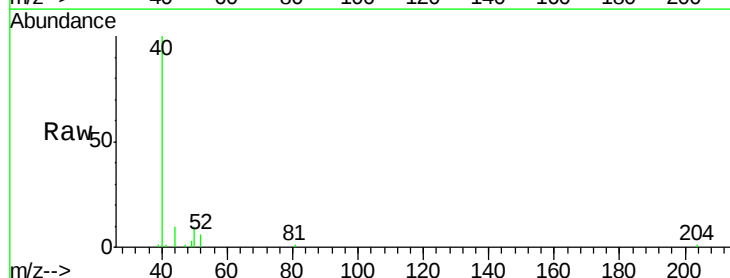
Acq: 26 Mar 2019 4:45

Tgt Ion: 50 Resp: 2493

Ion Ratio Lower Upper

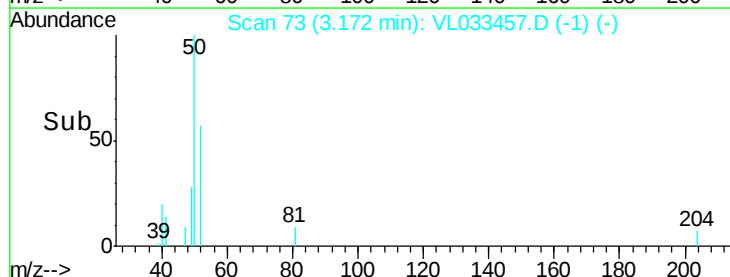
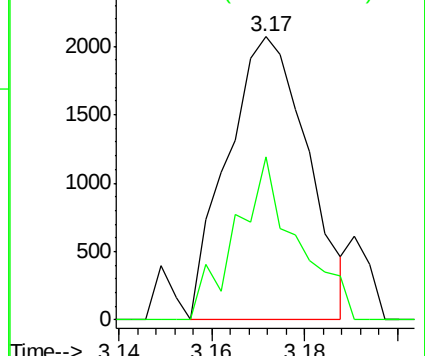
50 100

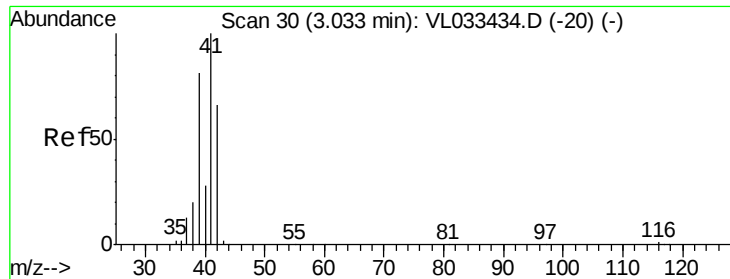
52 57.5 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.164 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

Instrument :

MSVOA_L

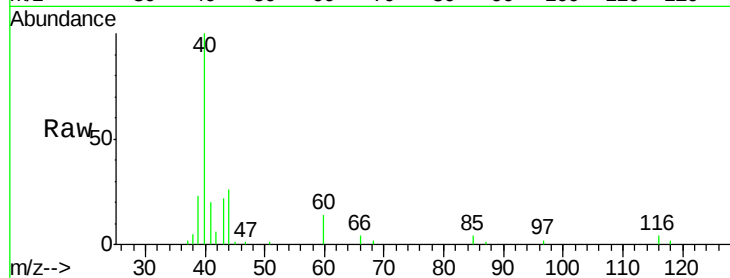
ClientSampleId :

Tot Ion: 41 Resp: 5836

Ion Ratio Lower Upper

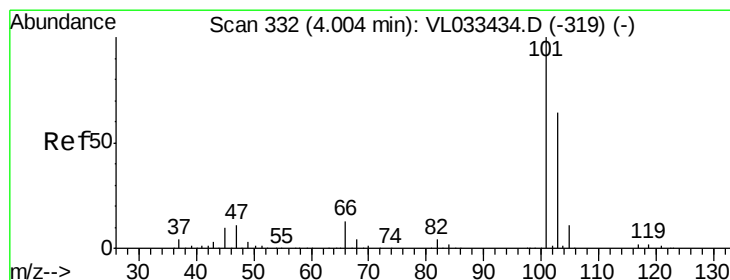
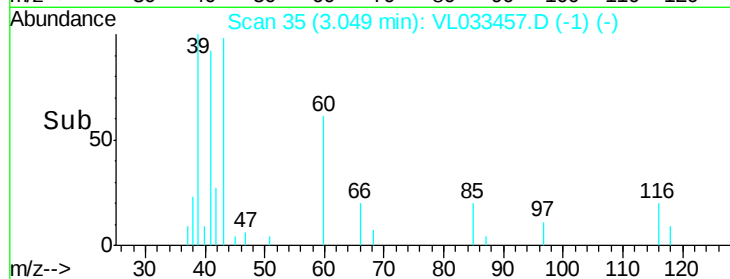
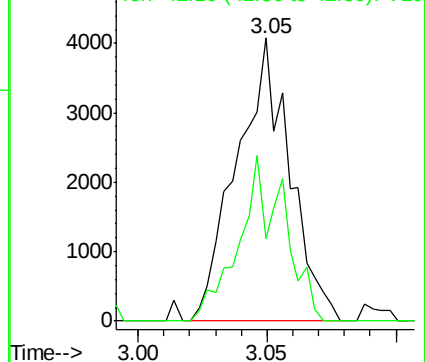
41 100

42 49.7 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033457.D

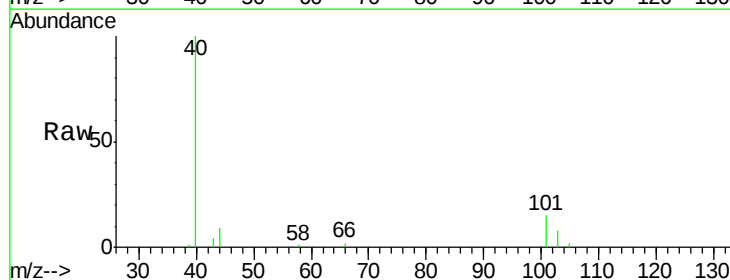
Acq: 26 Mar 2019 4:45

Tgt Ion: 101 Resp: 2765

Ion Ratio Lower Upper

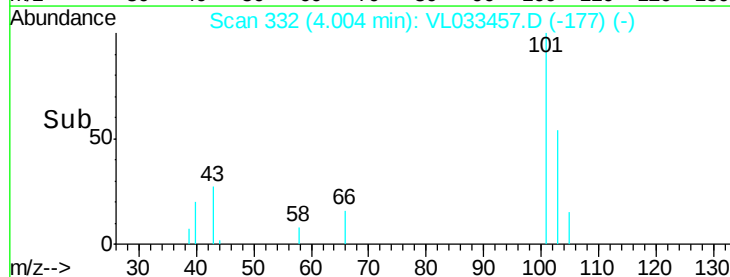
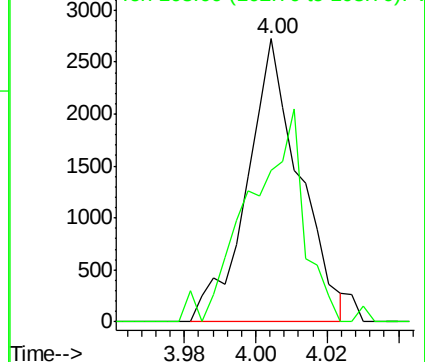
101 100

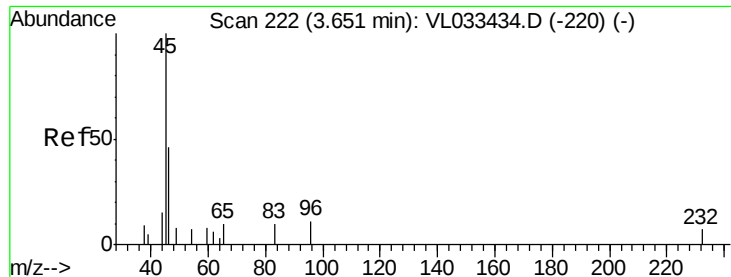
103 53.6 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

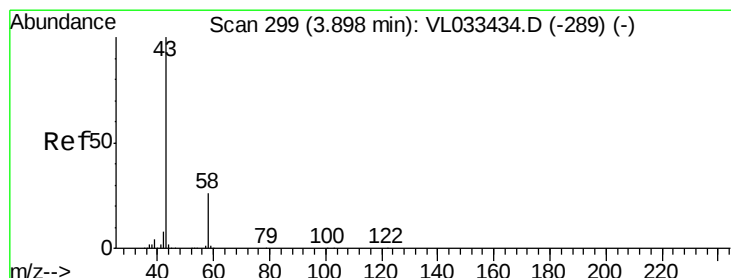
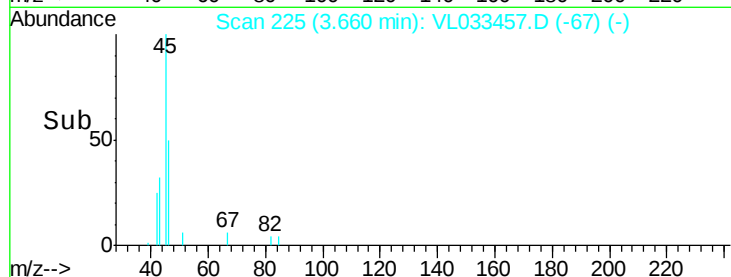
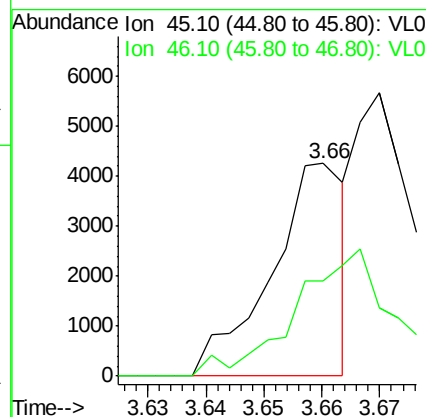
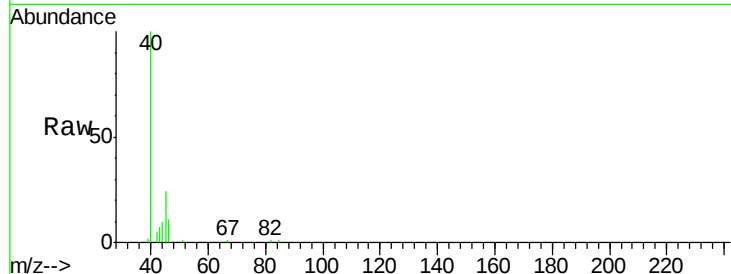




#13
Ethanol
Concen: 0.411 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

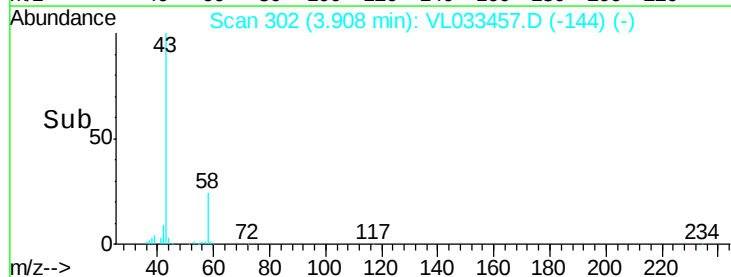
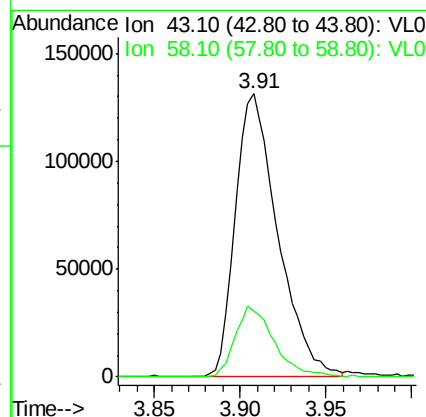
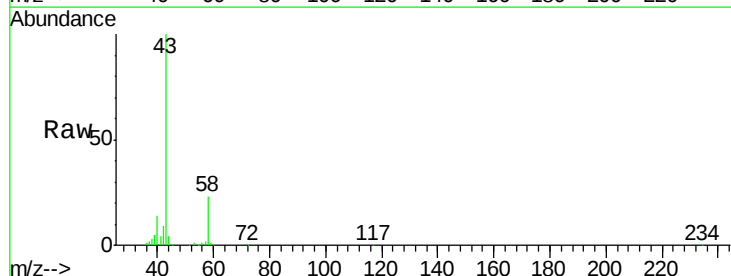
Instrument :
MSVOA_L
ClientSampled :

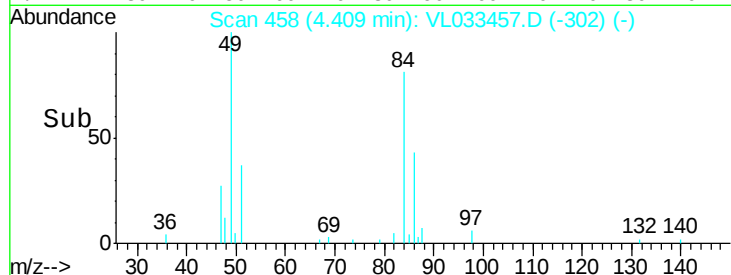
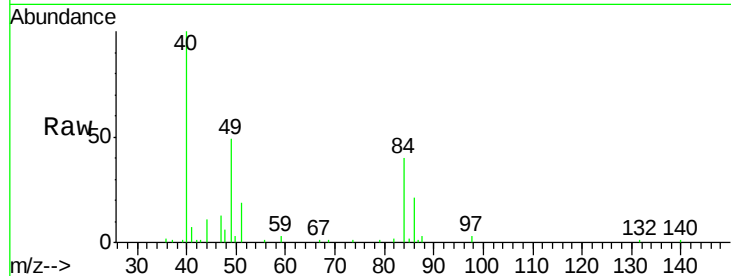
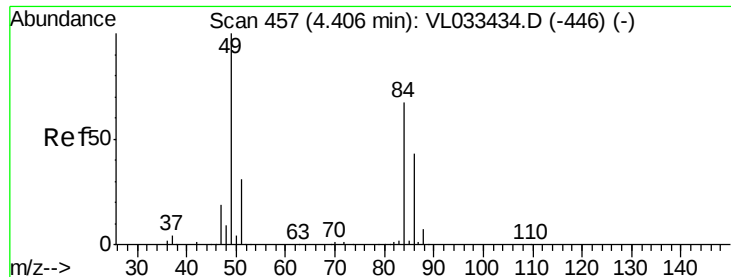
Tot Ion: 45 Resp: 3782
Ion Ratio Lower Upper
45 100
46 0.0 25.4 101.8#



#15
Acetone
Concen: 2.549 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.01 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

Tgt Ion: 43 Resp: 225640
Ion Ratio Lower Upper
43 100
58 23.2 20.5 30.7

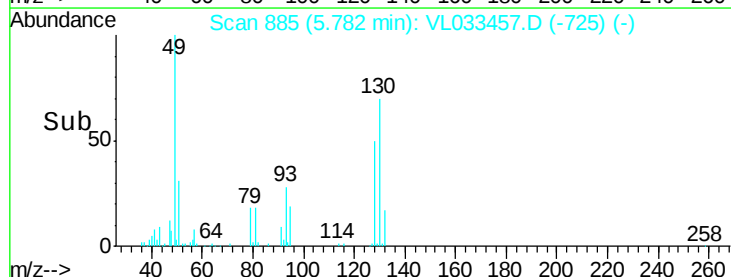
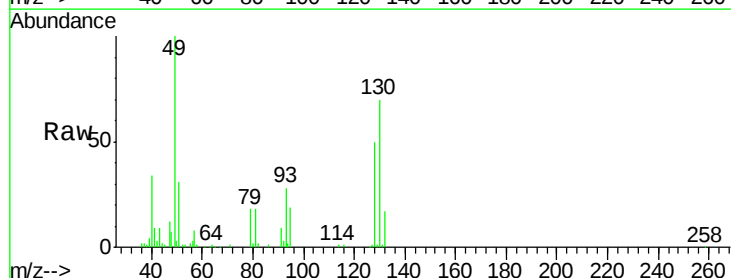
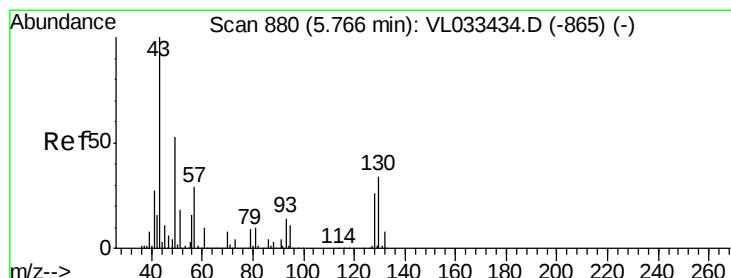
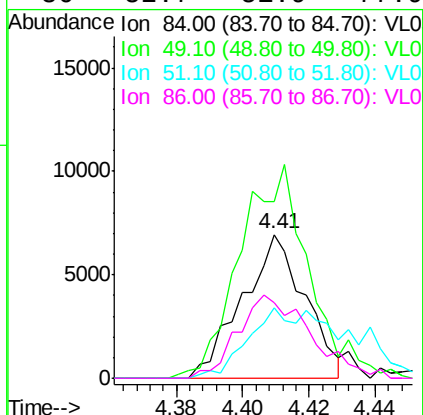




#20
Methylene Chloride
Concen: 0.243 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

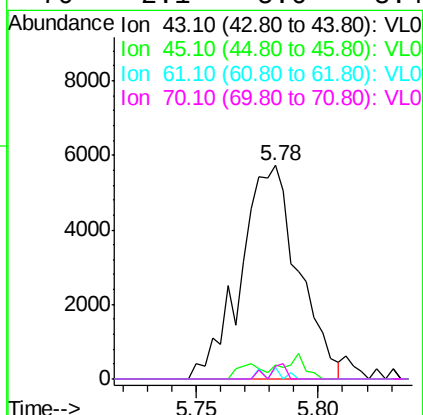
Instrument :
MSVOA_L
ClientSampleId :

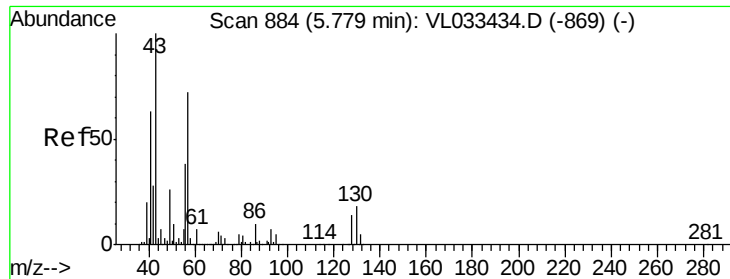
Tot Ion: 84 Resp: 9131
Ion Ratio Lower Upper
84 100
49 117.6 120.0 180.0#
51 49.0 36.7 55.1
86 52.7 51.9 77.9



#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.02 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

Tgt Ion: 43 Resp: 9354
Ion Ratio Lower Upper
43 100
45 7.5 7.8 11.6#
61 1.6 7.3 10.9#
70 2.1 5.6 8.4#





#26

Hexane

Concen: 0.093 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 6775

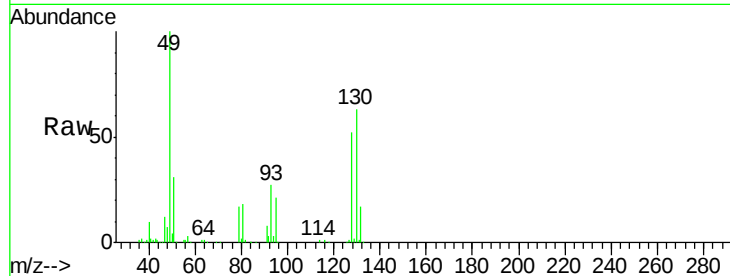
Ion Ratio Lower Upper

57 100

41 0.0 70.7 106.1#

43 0.0 182.6 274.0#

56 84.7 42.0 63.0#

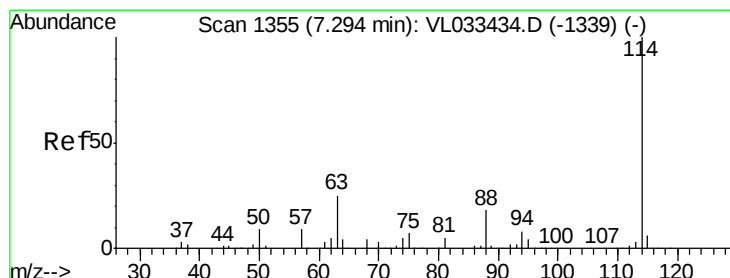
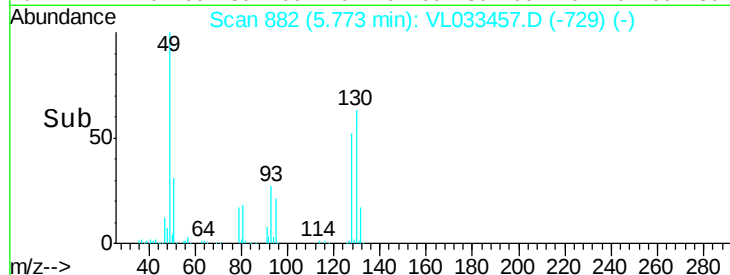
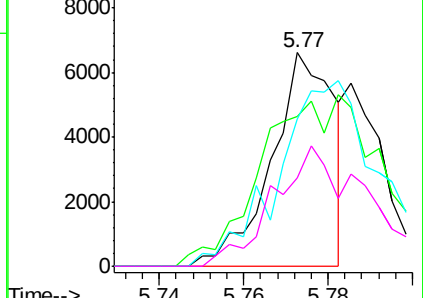


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

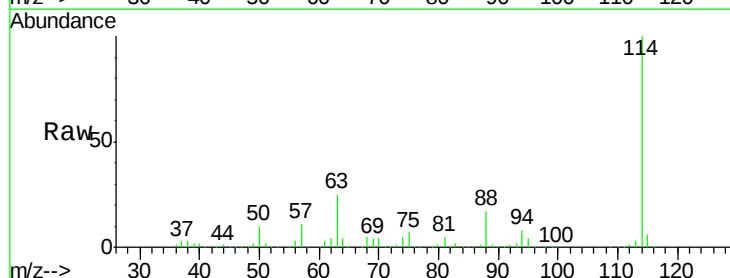
Tgt Ion: 114 Resp: 1722961

Ion Ratio Lower Upper

114 100

63 26.0 21.5 32.3

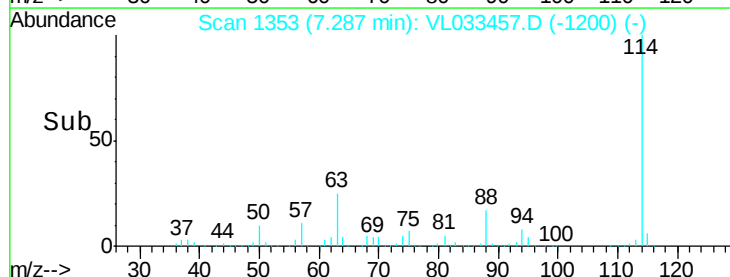
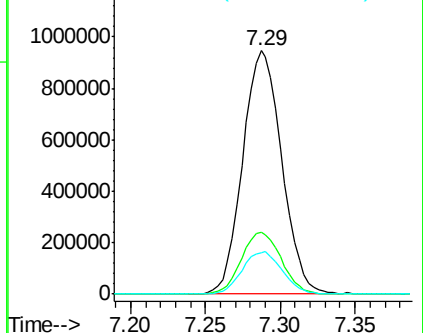
88 18.0 14.5 21.7

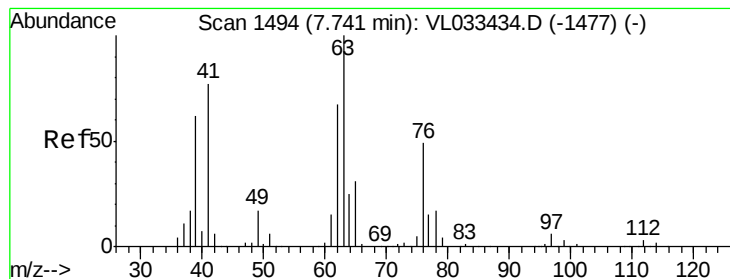


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 7.831 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.45 min

Lab File: VL033457.D

Acq: 26 Mar 2019 4:45

Instrument :

MSVOA_L

ClientSampleId :

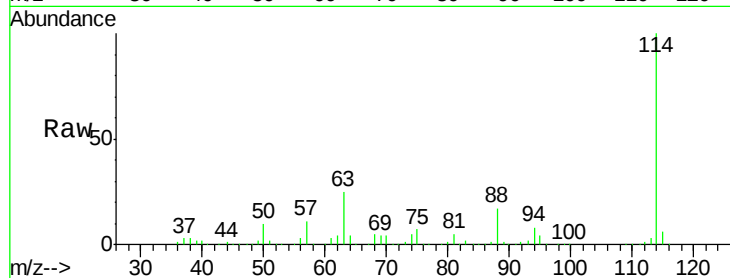
Tot Ion: 63 Resp: 443476

Ion Ratio Lower Upper

63 100

41 0.1 61.2 91.8#

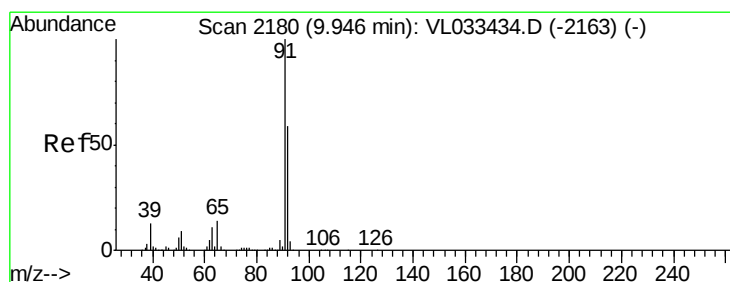
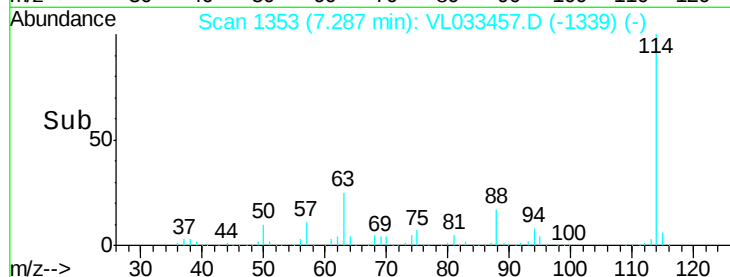
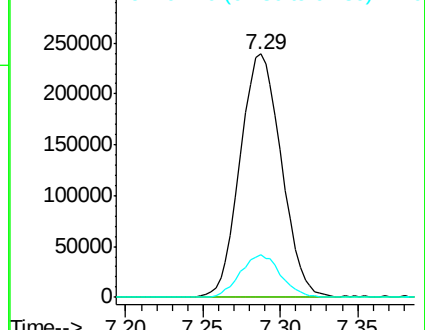
62 17.3 54.0 81.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.134 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033457.D

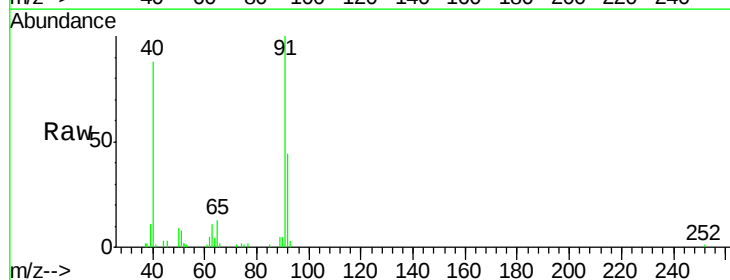
Acq: 26 Mar 2019 4:45

Tgt Ion: 91 Resp: 22578

Ion Ratio Lower Upper

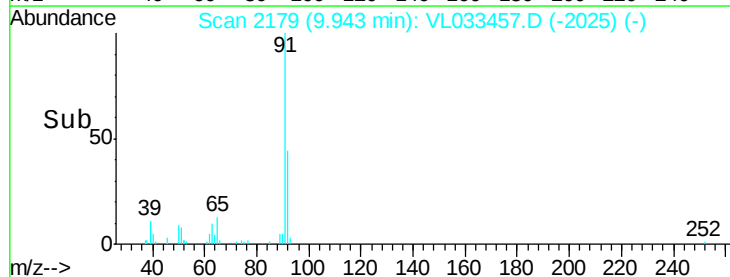
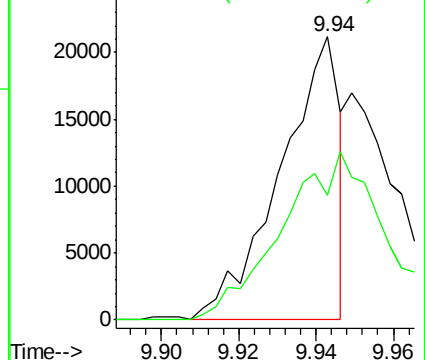
91 100

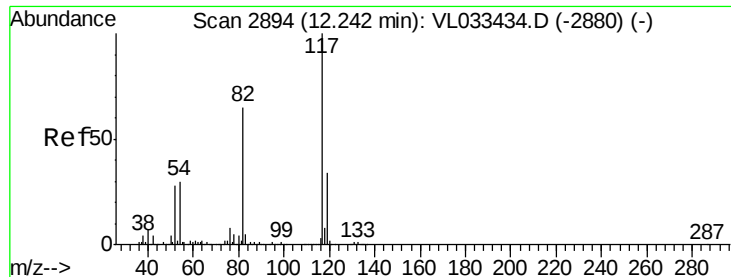
92 0.0 47.4 71.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

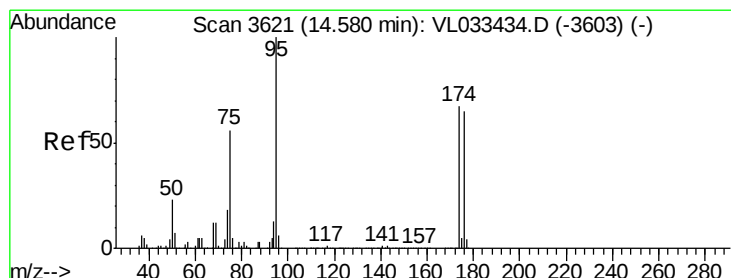
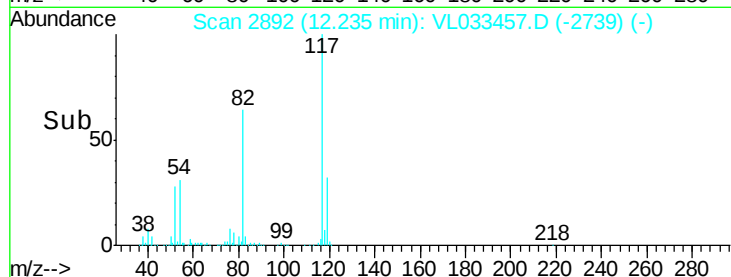
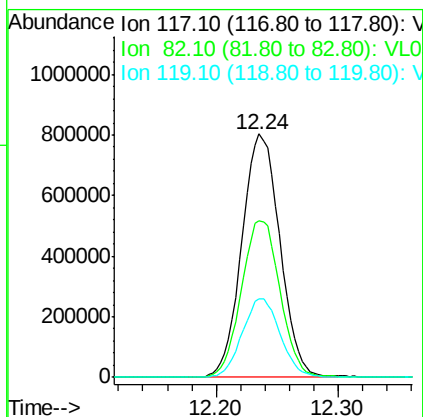
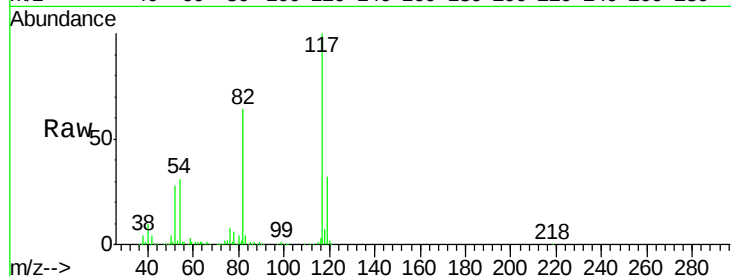




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 1729160
Ion Ratio Lower Upper
117 100
82 65.9 51.5 77.3
119 32.4 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.851 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033457.D
Acq: 26 Mar 2019 4:45

Tgt Ion: 95 Resp: 1335427
Ion Ratio Lower Upper
95 100
174 66.9 52.9 79.3
175 4.8 3.8 5.6

