

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033451.D
 Acq On : 26 Mar 2019 00:45
 Operator : SY/AP
 Sample : K1991-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Mar 26 05:22:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	754808	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1772900	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1753137	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1366809	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

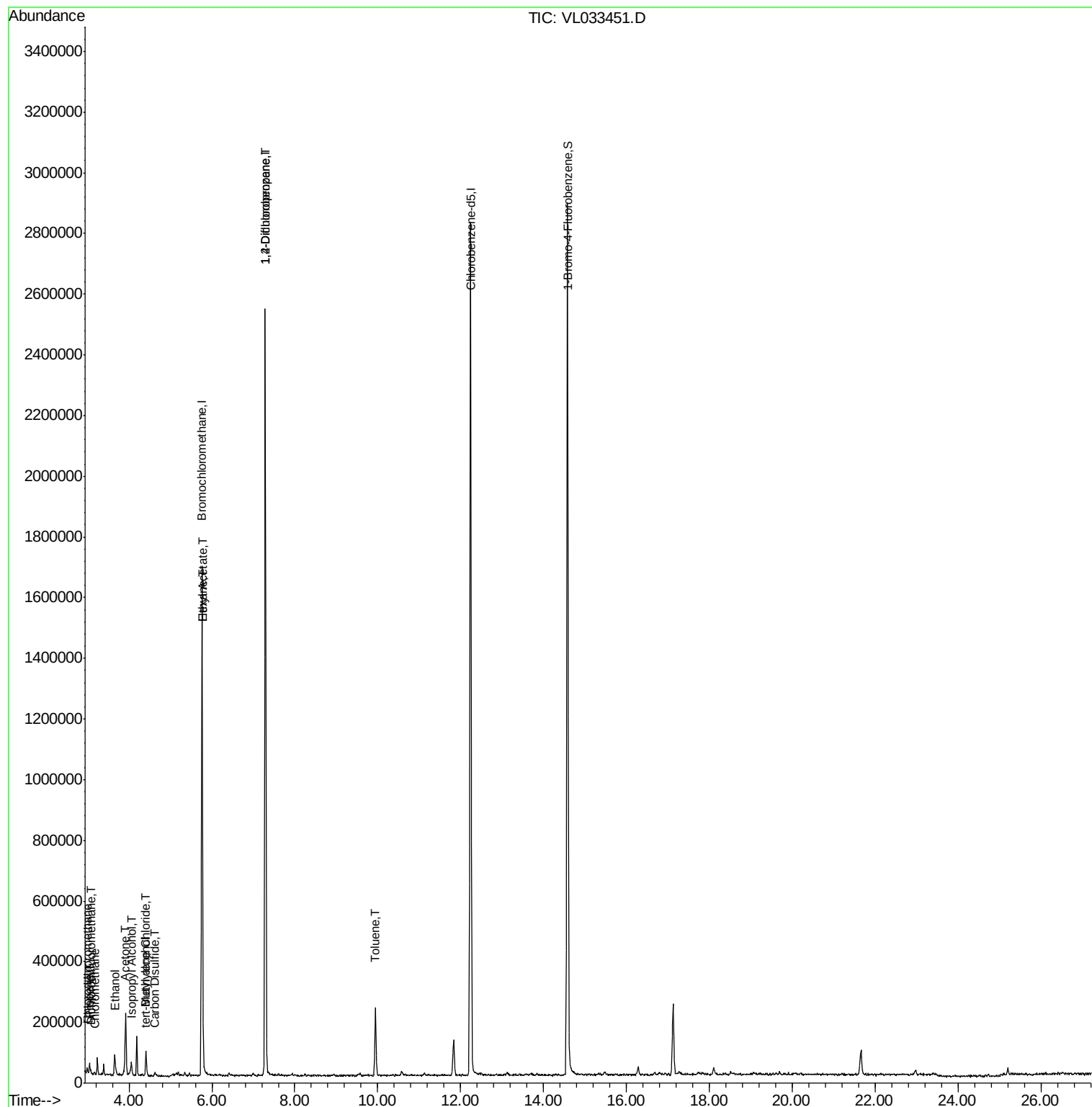
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	7434	0.068	ppbv	92
3) Chlorodifluoromethane	2.99	51	14546	0.167	ppbv #	65
4) Chloromethane	3.17	50	3396	0.074	ppbv #	88
9) Propene	3.04	41	7726	0.212	ppbv	84
13) Ethanol	3.65	45	73836	8.575	ppbv	65
15) Acetone	3.90	43	150134	1.654	ppbv #	86
17) tert-Butyl alcohol	4.38	59	882	0.053	ppbv #	73
19) Isopropyl Alcohol	4.05	45	25738	0.448	ppbv #	96
20) Methylene Chloride	4.41	84	26131	0.678	ppbv	97
25) Ethyl Acetate	5.78	43	49766	0.296	ppbv #	97
26) Hexane	5.78	57	17981	0.240	ppbv #	45
27) Carbon Disulfide	4.62	76	5113	0.057	ppbv #	15
39) 1,2-Dichloropropane	7.29	63	464683	7.974	ppbv #	24
53) Toluene	9.95	91	166363	0.962	ppbv	100

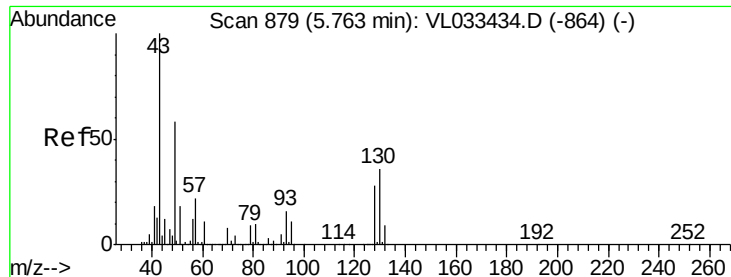
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 25 16:04:49 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: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

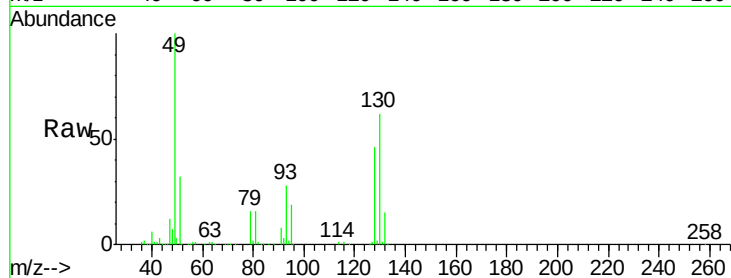
Tgt Ion: 49 Resp: 754808

Ion Ratio Lower Upper

49 100

128 48.3 24.0 72.0

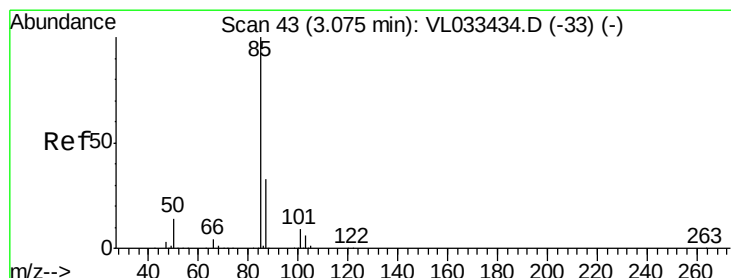
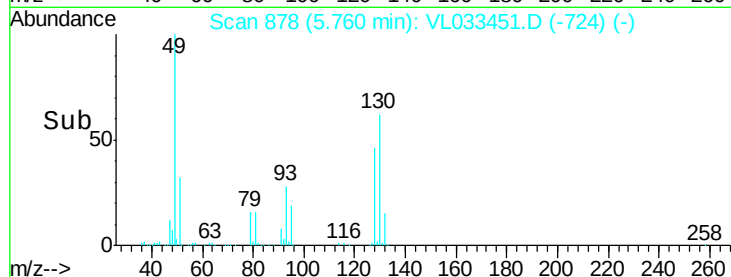
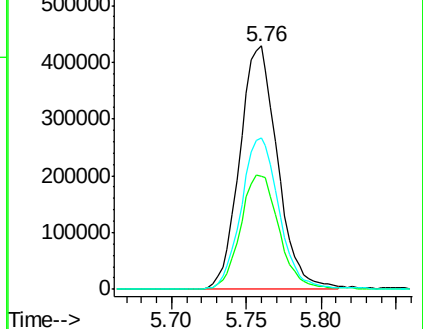
130 62.9 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.068 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033451.D

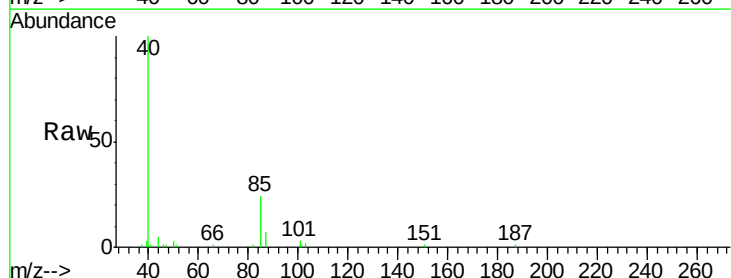
Acq: 26 Mar 2019 00:45

Tgt Ion: 85 Resp: 7434

Ion Ratio Lower Upper

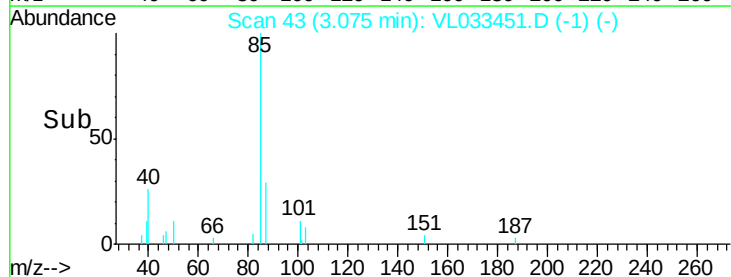
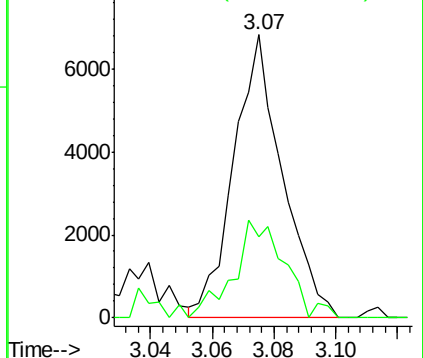
85 100

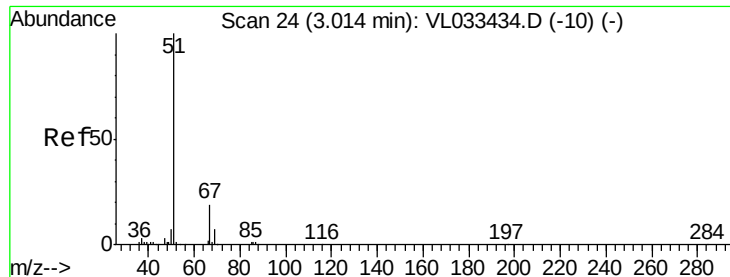
87 28.8 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.167 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

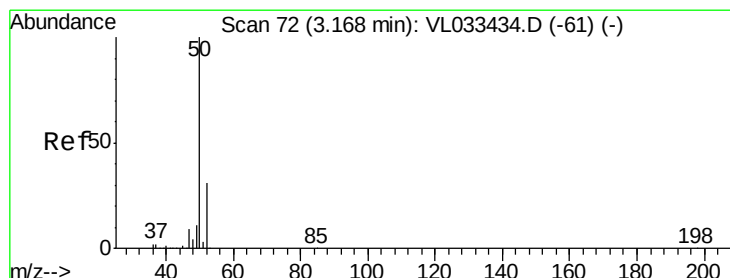
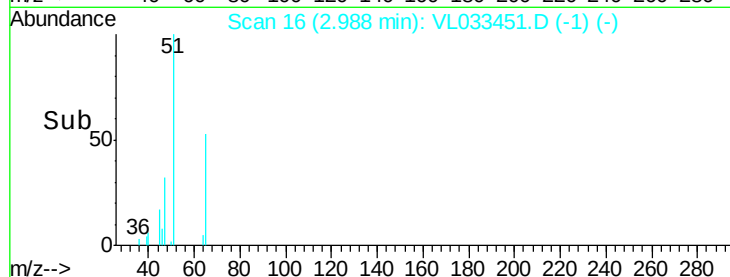
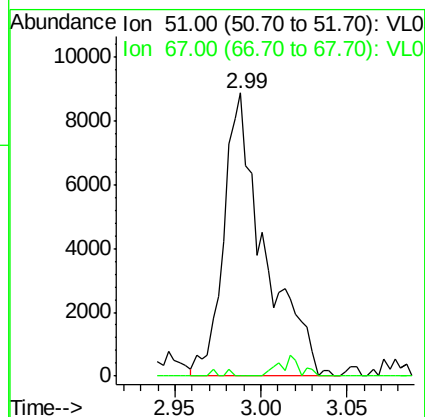
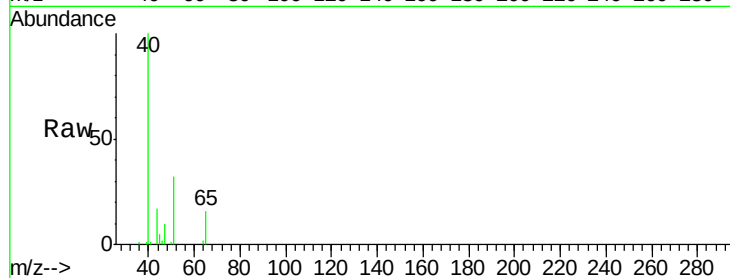
IA-1DL

Tgt Ion: 51 Resp: 14546

Ion Ratio Lower Upper

51 100

67 3.5 15.7 23.5#



#4

Chloromethane

Concen: 0.074 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033451.D

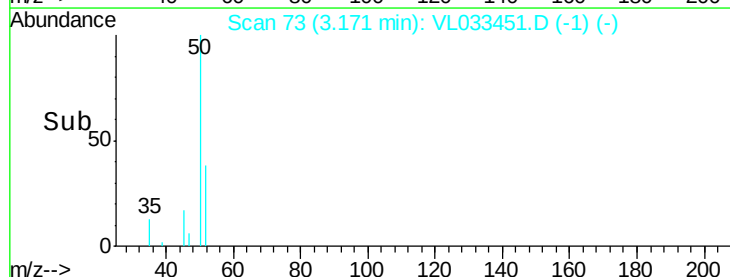
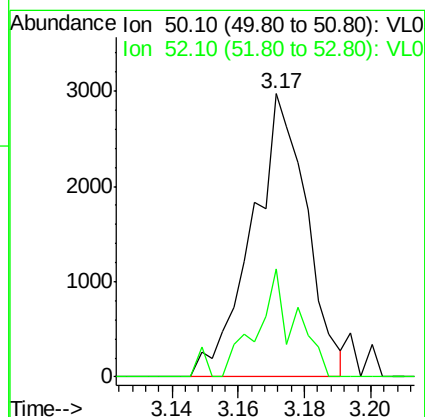
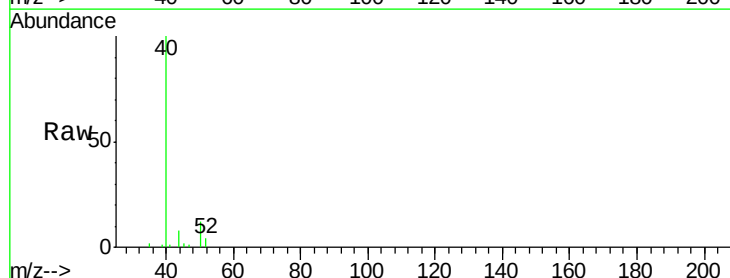
Acq: 26 Mar 2019 00:45

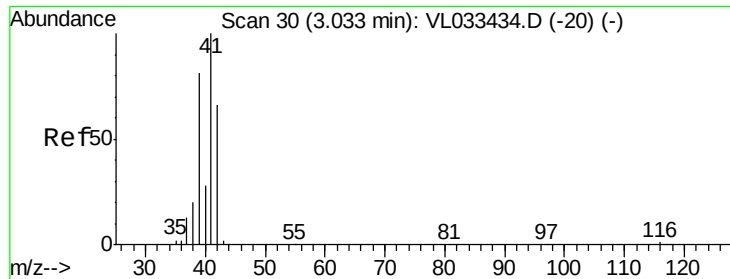
Tgt Ion: 50 Resp: 3396

Ion Ratio Lower Upper

50 100

52 38.1 25.0 37.6#





#9

Propene

Concen: 0.212 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

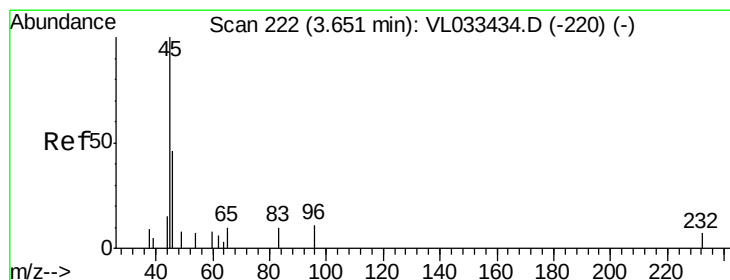
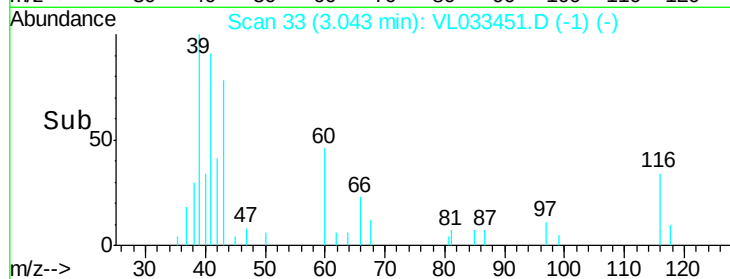
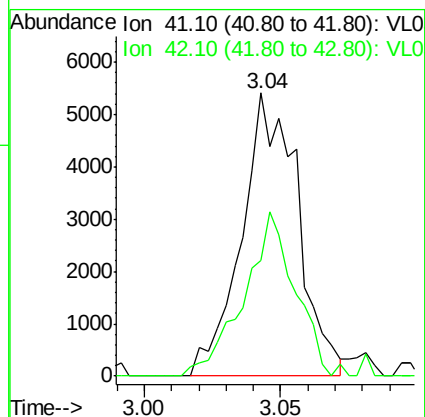
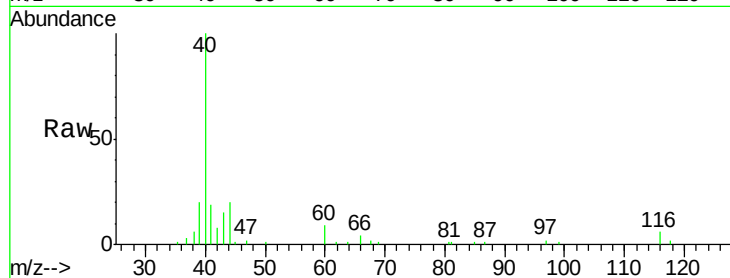
IA-1DL

Tgt Ion: 41 Resp: 7726

Ion Ratio Lower Upper

41 100

42 54.2 53.9 80.9



#13

Ethanol

Concen: 8.575 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033451.D

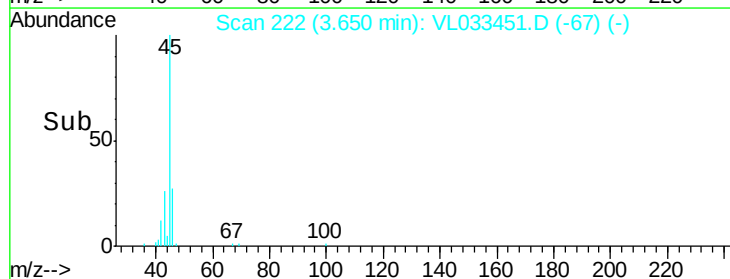
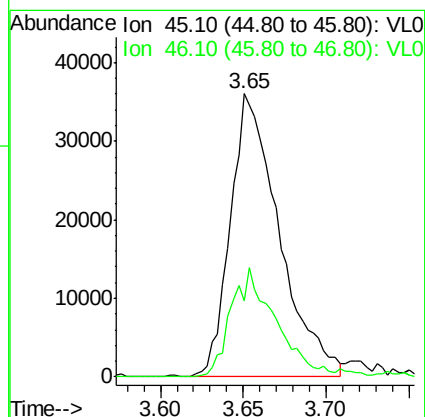
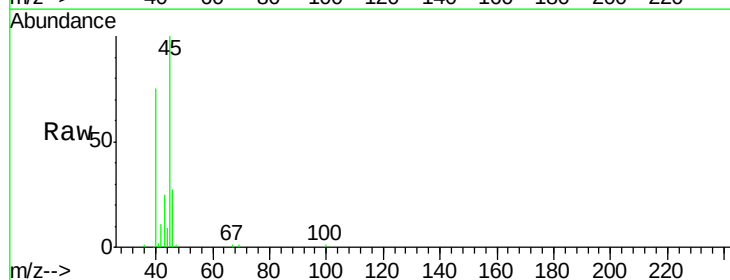
Acq: 26 Mar 2019 00:45

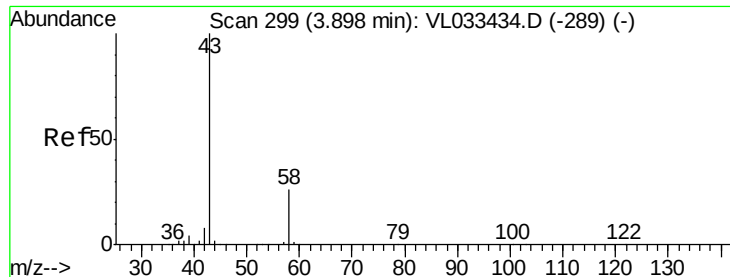
Tgt Ion: 45 Resp: 73836

Ion Ratio Lower Upper

45 100

46 36.0 25.4 101.8





#15

Acetone

Concen: 1.654 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

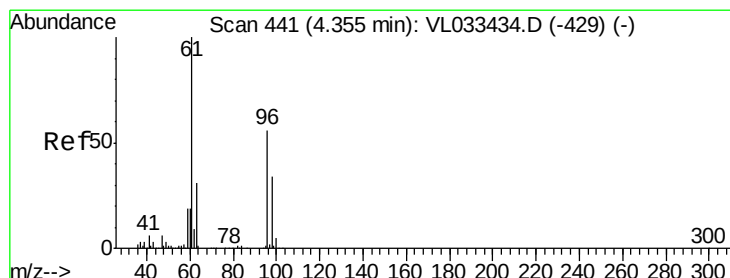
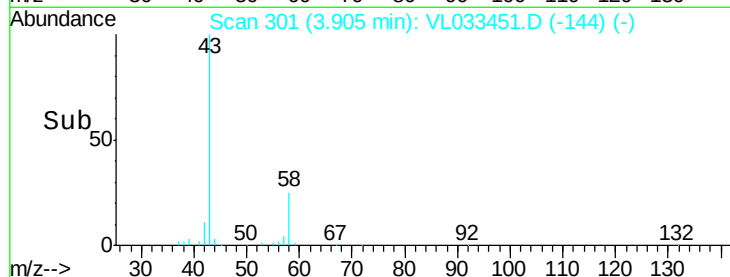
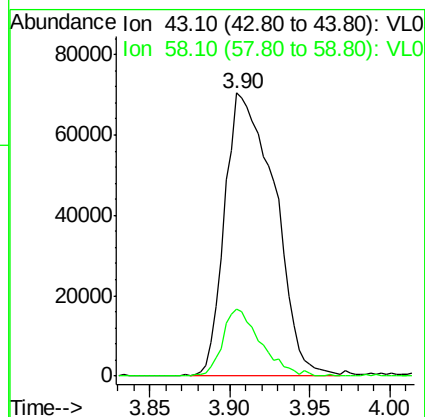
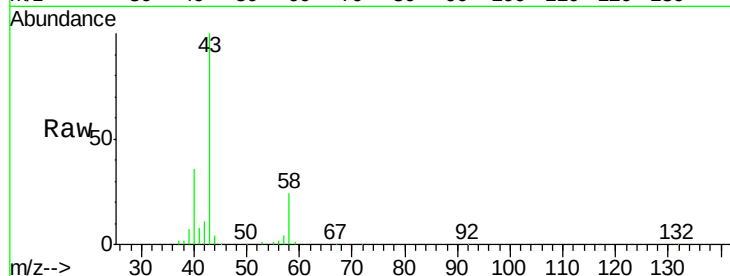
IA-1DL

Tgt Ion: 43 Resp: 150134

Ion Ratio Lower Upper

43 100

58 18.3 20.5 30.7#



#17

tert-Butyl alcohol

Concen: 0.053 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.02 min

Lab File: VL033451.D

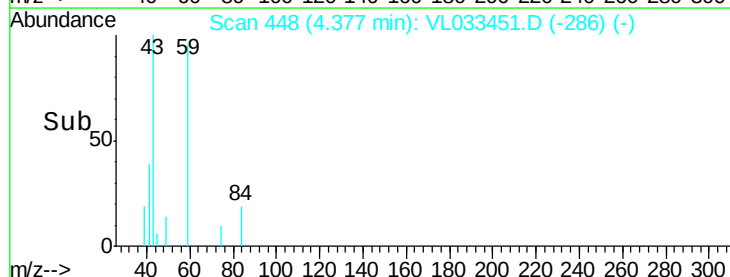
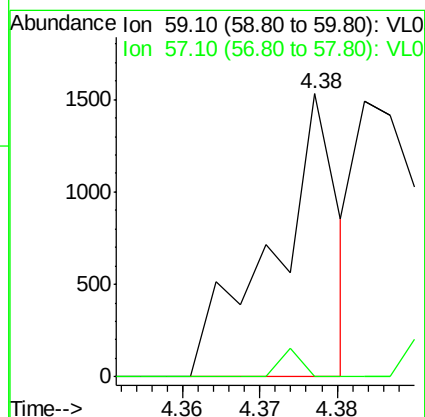
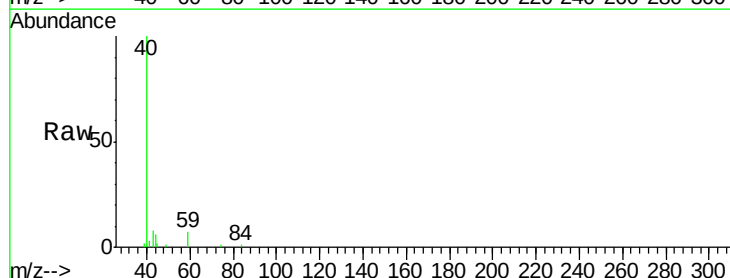
Acq: 26 Mar 2019 00:45

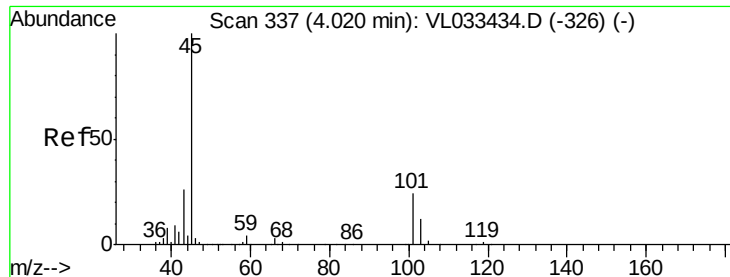
Tgt Ion: 59 Resp: 882

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 0.448 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.03 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

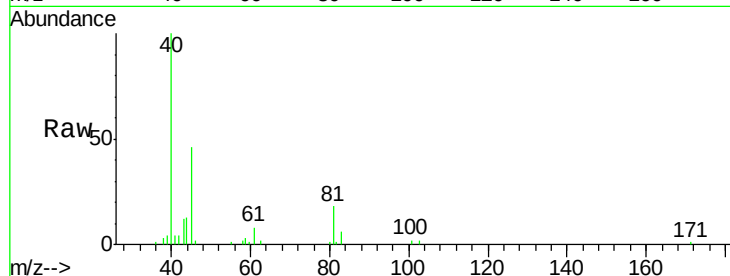
IA-1DL

Tgt Ion: 45 Resp: 25738

Ion Ratio Lower Upper

45 100

58 3.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.05

12000

10000

8000

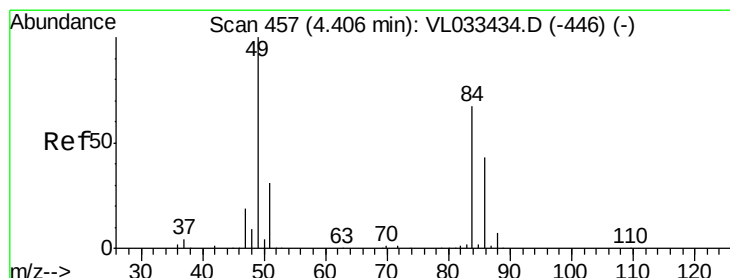
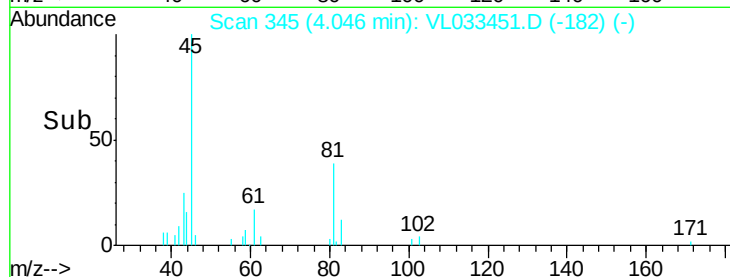
6000

4000

2000

0

Time-->



#20

Methylene Chloride

Concen: 0.678 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Tgt Ion: 84 Resp: 26131

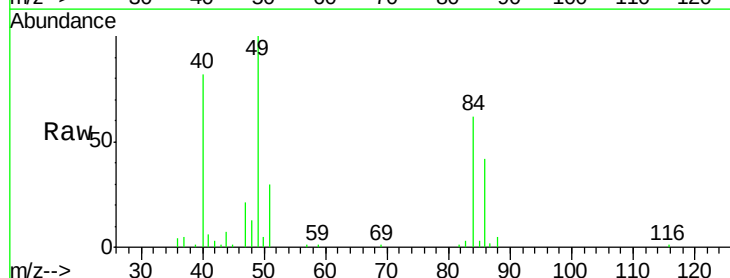
Ion Ratio Lower Upper

84 100

49 154.9 120.0 180.0

51 46.0 36.7 55.1

86 68.3 51.9 77.9



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

40000

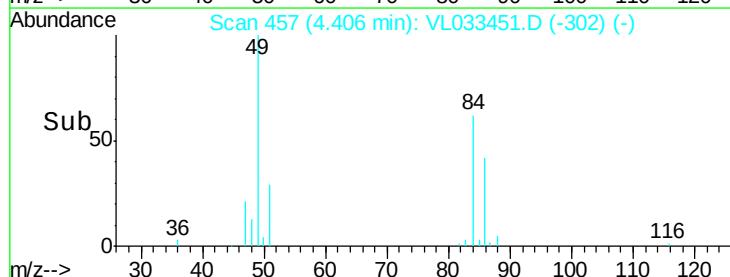
30000

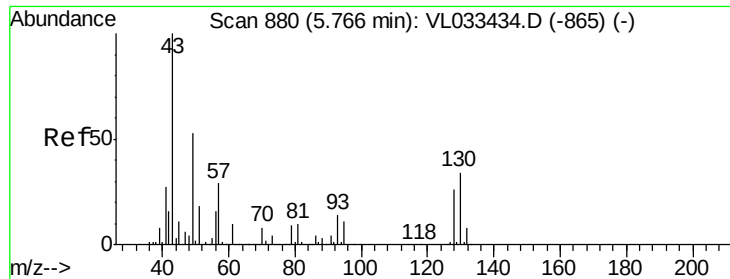
20000

10000

0

Time-->





#25

Ethyl Acetate

Concen: 0.296 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tgt Ion: 43 Resp: 49766

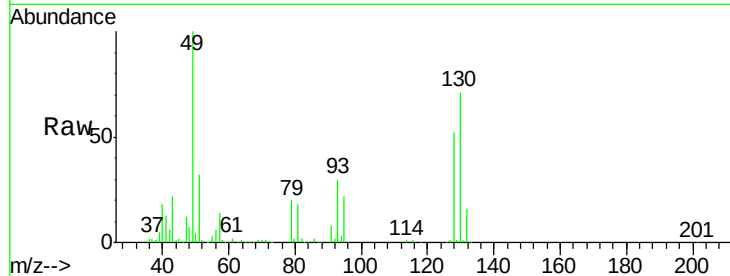
Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.6

61 7.1 7.3 10.9#

70 6.3 5.6 8.4

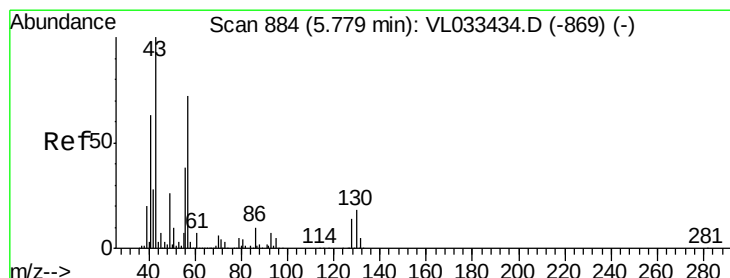
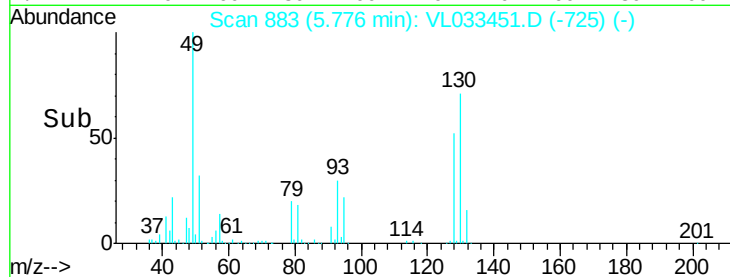
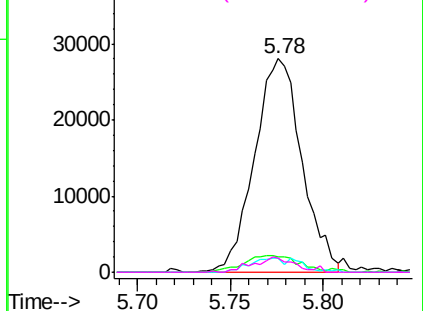


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.240 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Tgt Ion: 57 Resp: 17981

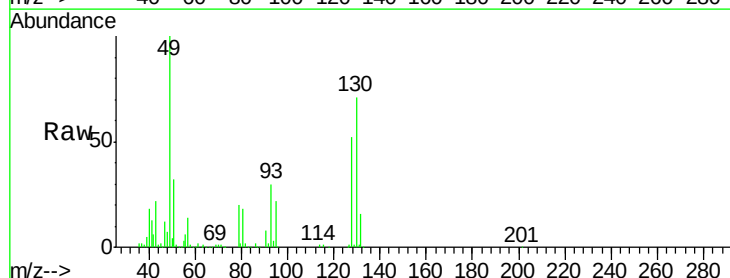
Ion Ratio Lower Upper

57 100

41 0.0 70.7 106.1#

43 286.9 182.6 274.0#

56 0.0 42.0 63.0#

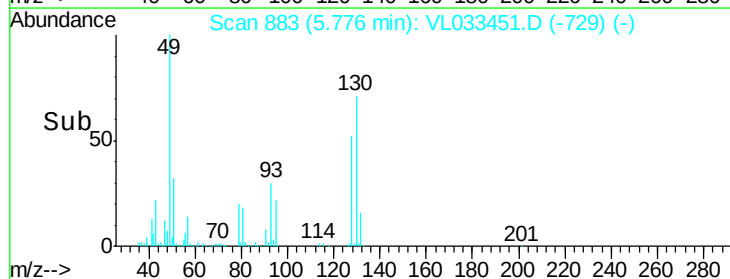
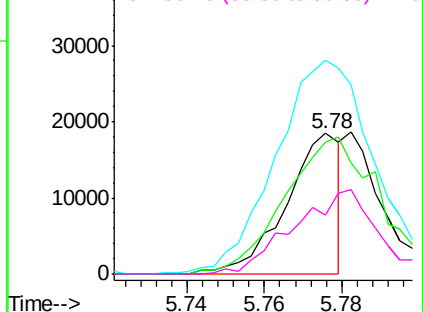


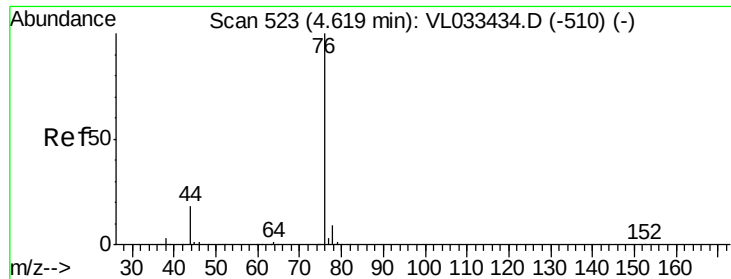
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.057 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

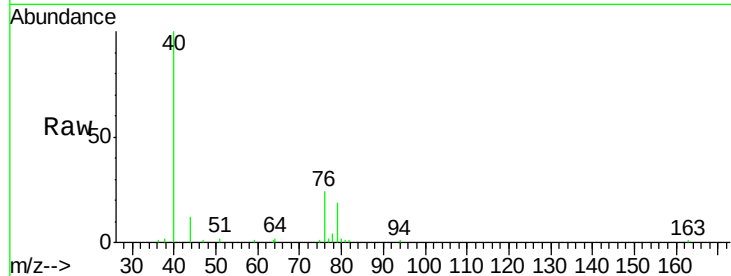
Tgt Ion: 76 Resp: 5113

Ion Ratio Lower Upper

76 100

44 72.0 14.8 22.2#

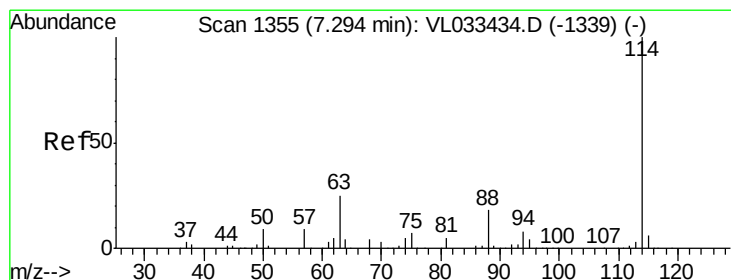
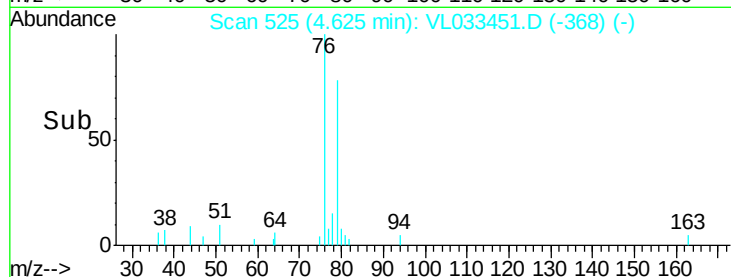
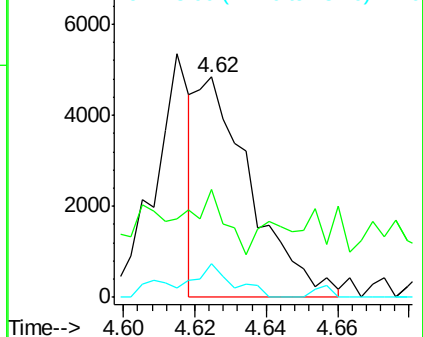
78 16.4 7.6 11.4#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033451.D

Acq: 26 Mar 2019 00:45

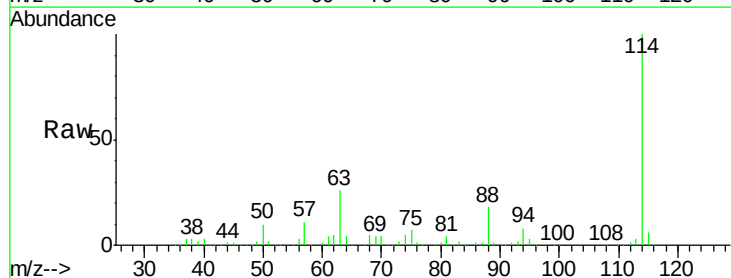
Tgt Ion: 114 Resp: 1772900

Ion Ratio Lower Upper

114 100

63 26.3 21.5 32.3

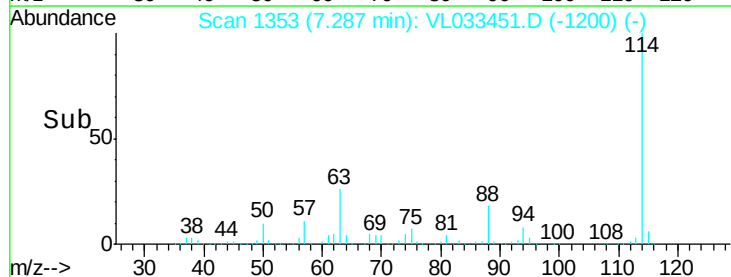
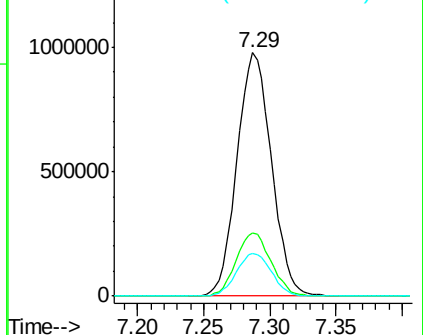
88 18.0 14.5 21.7

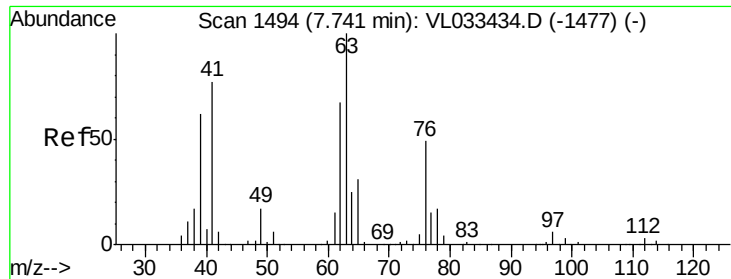


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

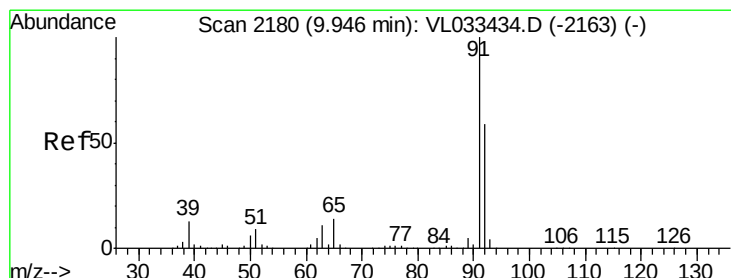
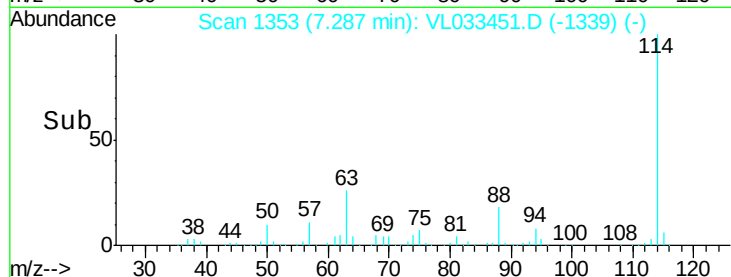
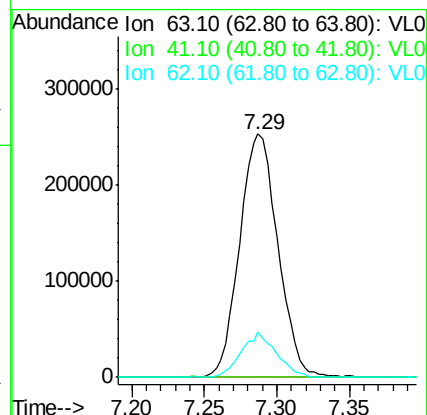
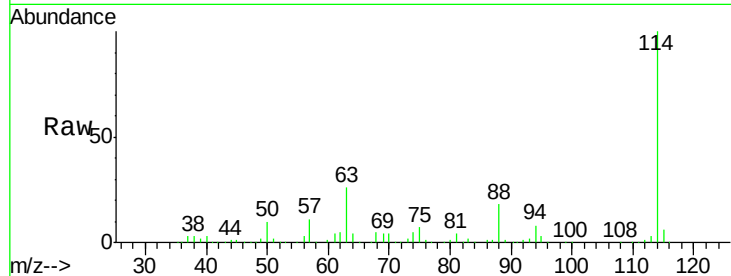




#39
 1,2-Dichloropropane
 Concen: 7.974 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033451.D
 Acq: 26 Mar 2019 00:45

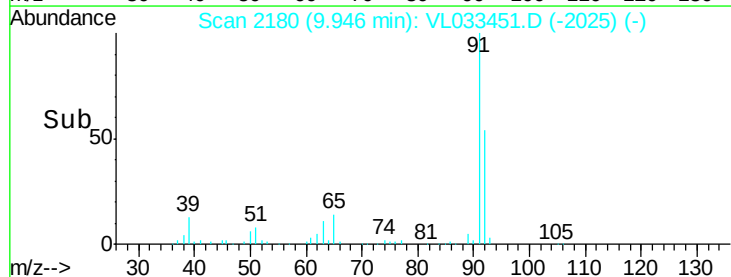
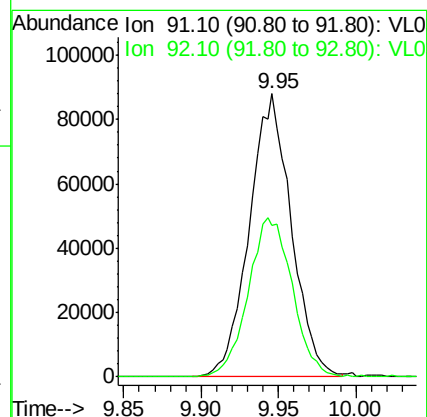
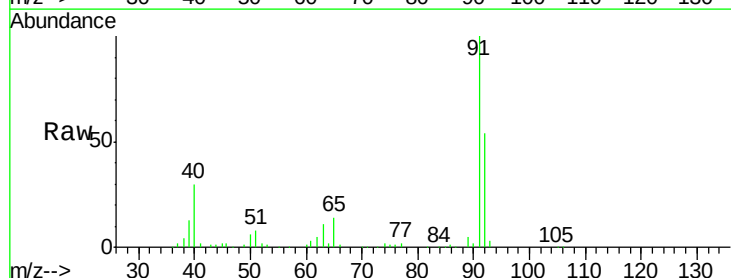
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

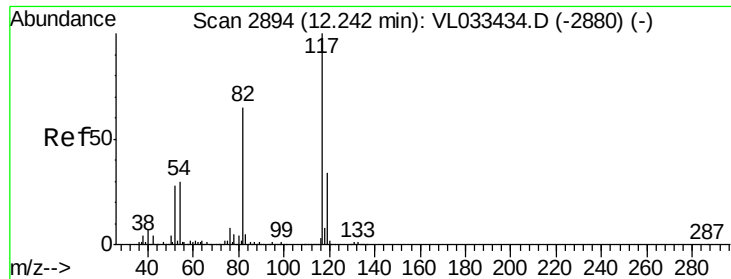
Tgt Ion: 63 Resp: 464683
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 18.4 54.0 81.0#



#53
 Toluene
 Concen: 0.962 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.00 min
 Lab File: VL033451.D
 Acq: 26 Mar 2019 00:45

Tgt Ion: 91 Resp: 166363
 Ion Ratio Lower Upper
 91 100
 92 58.9 47.4 71.0

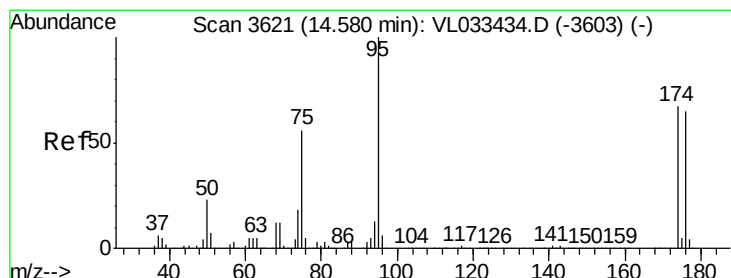
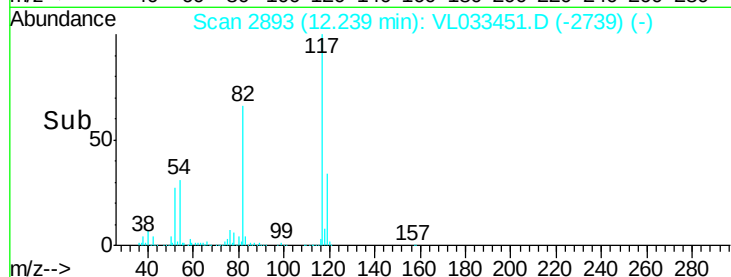
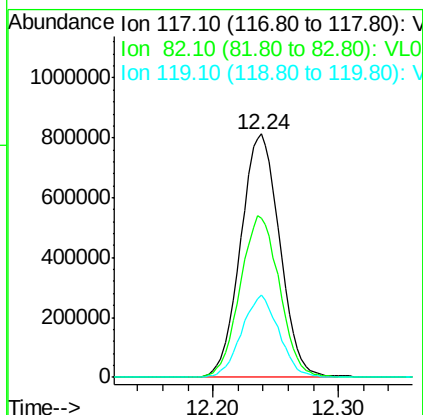
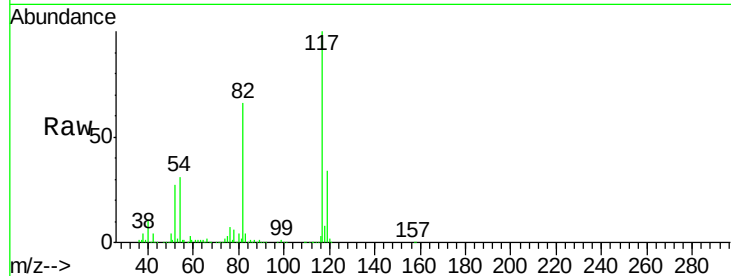




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033451.D
Acq: 26 Mar 2019 00:45

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Tgt Ion:117 Resp: 1753137
Ion Ratio Lower Upper
117 100
82 67.4 51.5 77.3
119 32.5 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.945 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033451.D
Acq: 26 Mar 2019 00:45

Tgt Ion: 95 Resp: 1366809
Ion Ratio Lower Upper
95 100
174 66.0 52.9 79.3
175 4.8 3.8 5.6

