

Data File : VL033155.D
Acq On : 4 Feb 2019 13:11
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Feb 04 14:23:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 01 22:01:04 2019
QLast Update : Fri Feb 01 22:01:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1179341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3240798	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3141539	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2462879	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

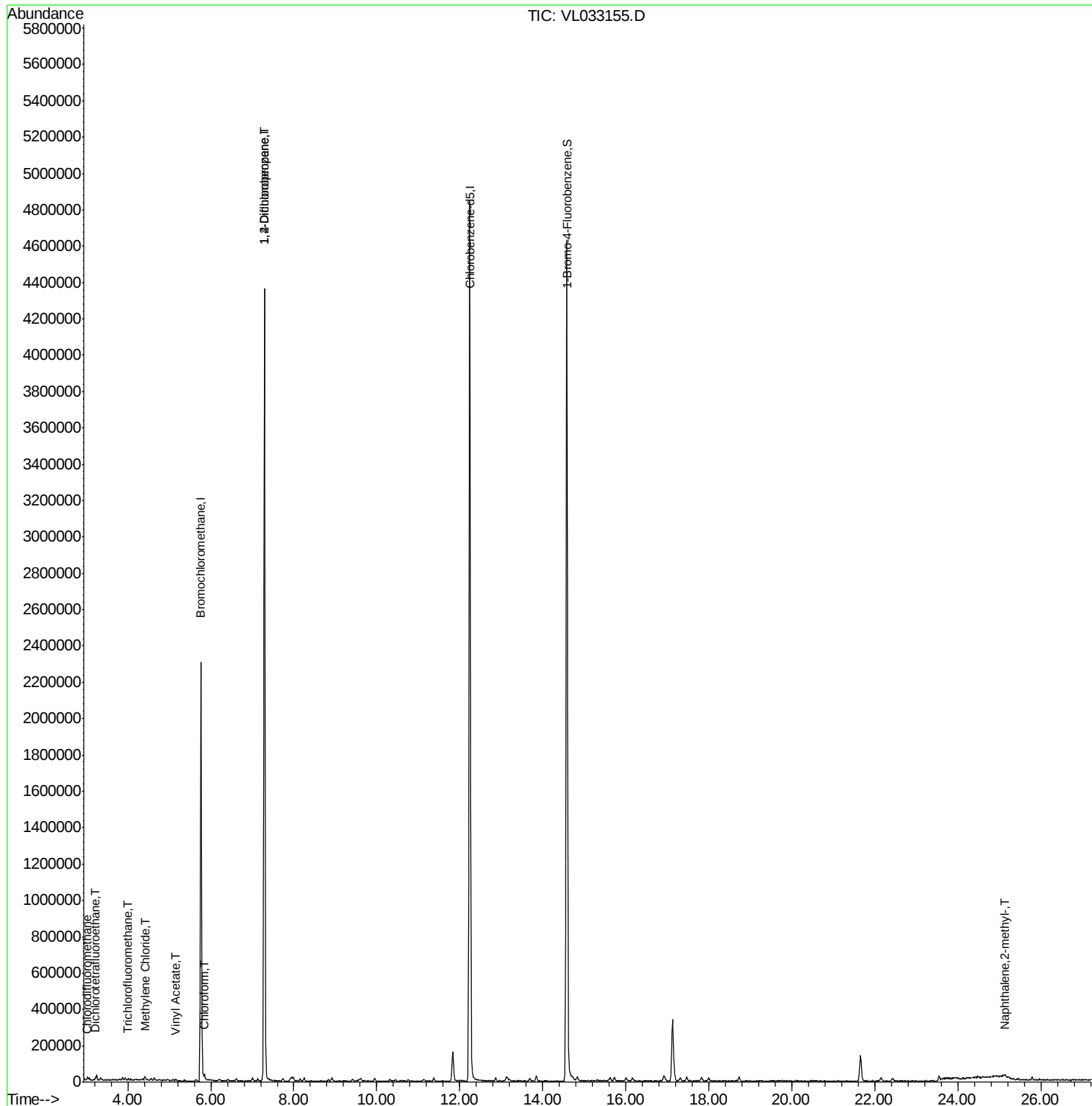
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	5778	0.030	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	6649	0.030	ppbv	86
11) Trichlorofluoromethane	4.01	101	5963	0.032	ppbv #	52
20) Methylene Chloride	4.41	84	4739	0.082	ppbv #	80
23) Vinyl Acetate	5.17	43	8503	0.033	ppbv #	93
29) Chloroform	5.85	83	7515	0.035	ppbv	90
39) 1,2-Dichloropropane	7.29	63	844491	6.340	ppbv #	27
80) Naphthalene,2-methyl-	25.13	142	4130	0.053	ppbv	95

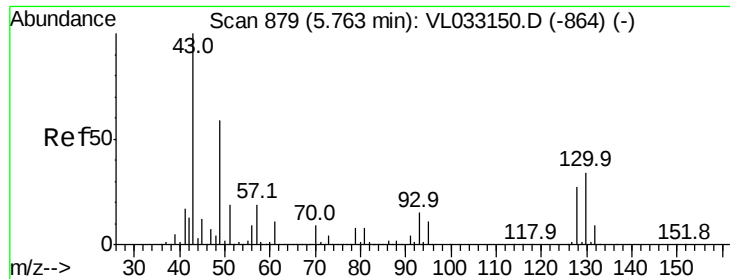
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033155.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

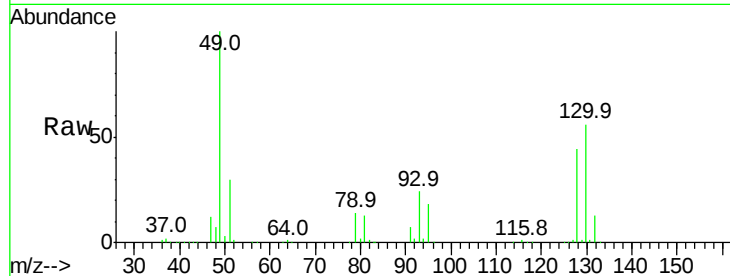
Tgt Ion: 49 Resp: 1179341

Ion Ratio Lower Upper

49 100

128 45.0 23.2 69.5

130 57.3 29.5 88.6



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

600000

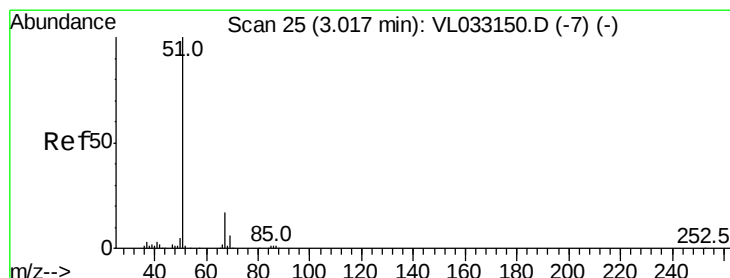
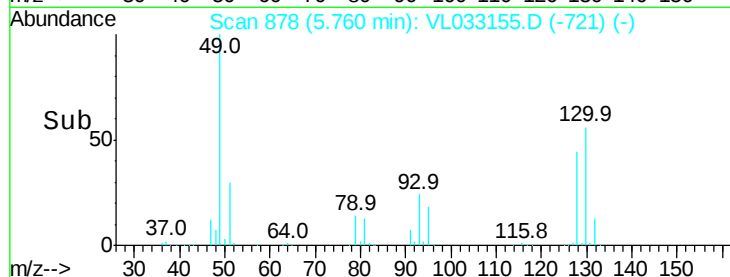
400000

200000

0

Time-->

5.70 5.75 5.80 5.85



#3

Chlorodifluoromethane

Concen: 0.030 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL033155.D

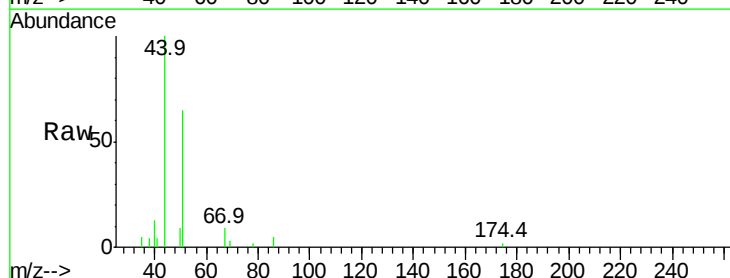
Acq: 4 Feb 2019 13:11

Tgt Ion: 51 Resp: 5778

Ion Ratio Lower Upper

51 100

67 17.2 13.4 20.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.02

6000

5000

4000

3000

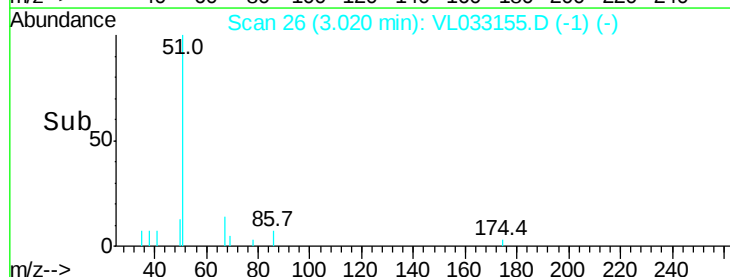
2000

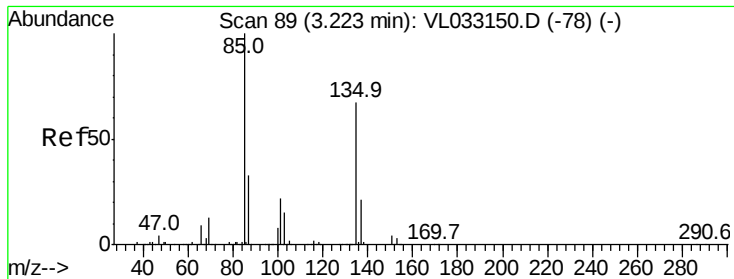
1000

0

Time-->

2.95 3.00 3.05





#8

Dichlorotetrafluoroethane

Concen: 0.030 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL033155.D

Acq: 4 Feb 2019 13:11

Instrument :

MSVOA_L

ClientSampleId :

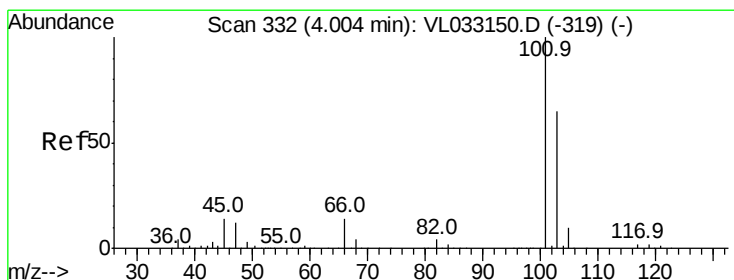
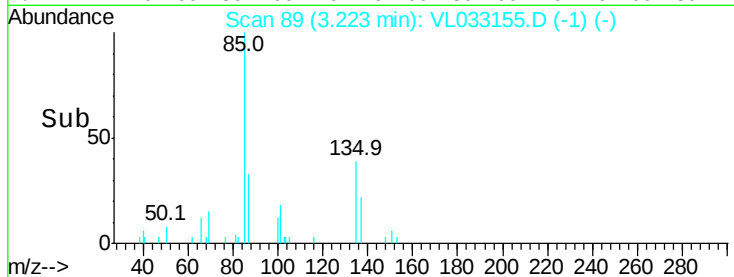
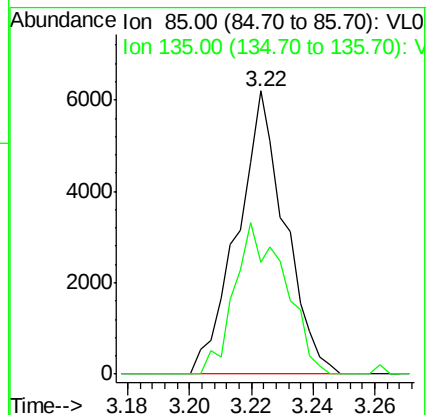
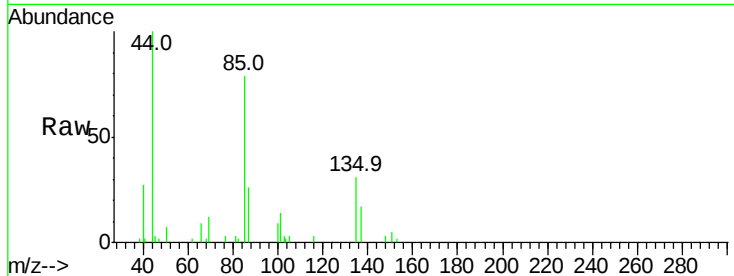
VSTDIC0.03

Tgt Ion: 85 Resp: 6649

Ion Ratio Lower Upper

85 100

135 56.4 54.0 81.0



#11

Trichlorofluoromethane

Concen: 0.032 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL033155.D

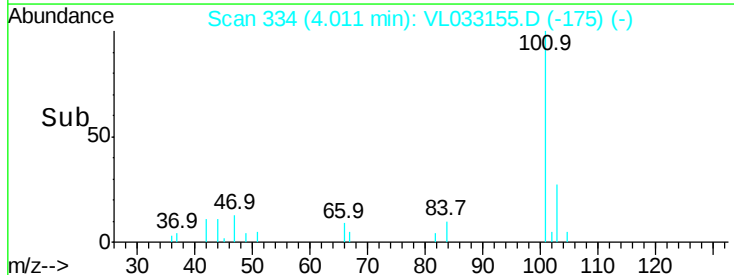
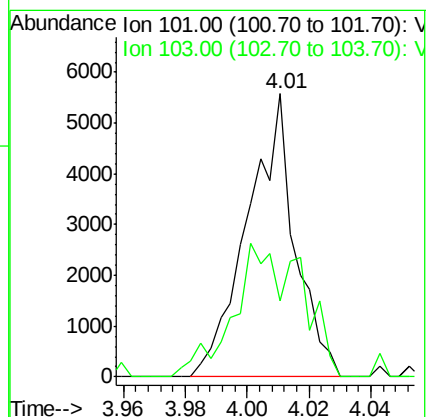
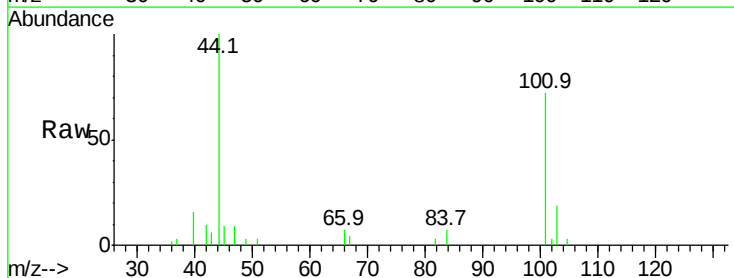
Acq: 4 Feb 2019 13:11

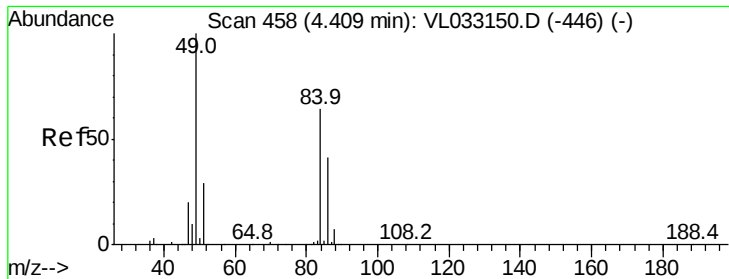
Tgt Ion: 101 Resp: 5963

Ion Ratio Lower Upper

101 100

103 26.6 51.3 76.9#

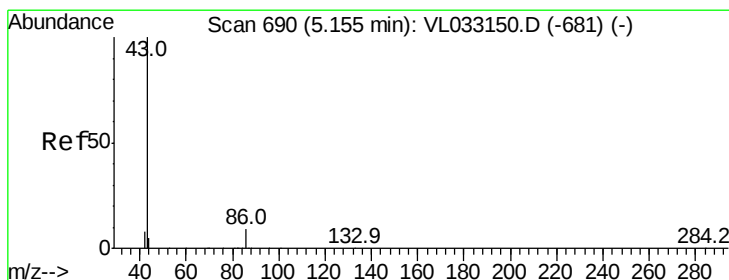
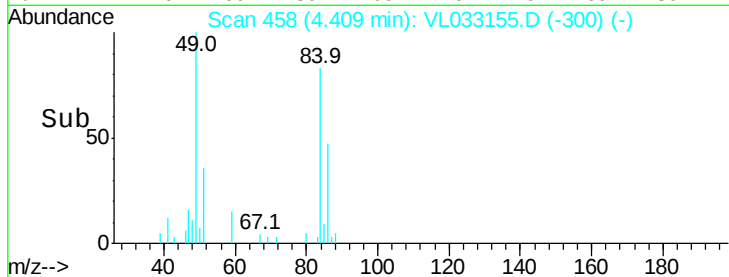
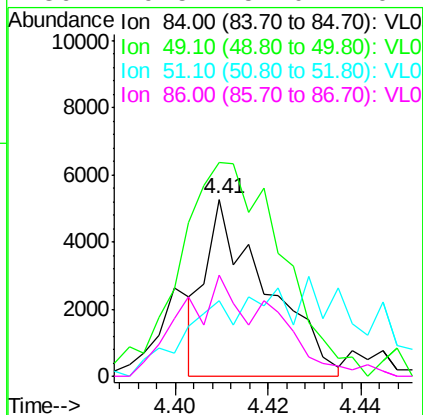
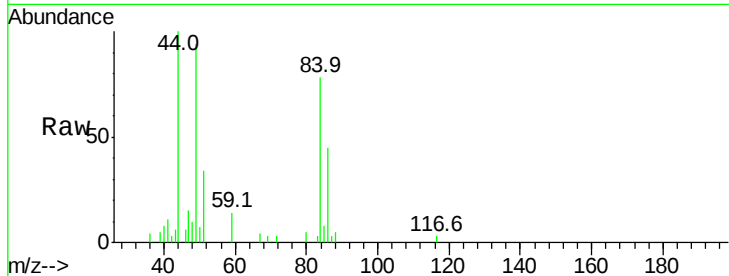




#20
Methylene Chloride
Concen: 0.082 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.01 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

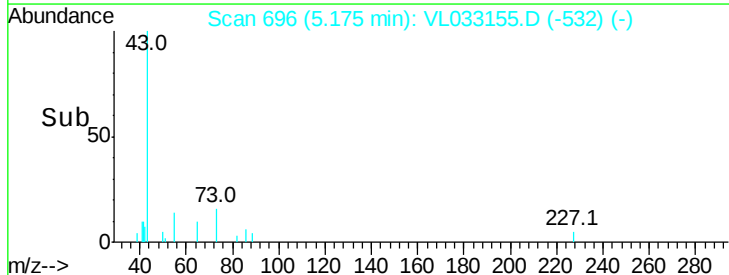
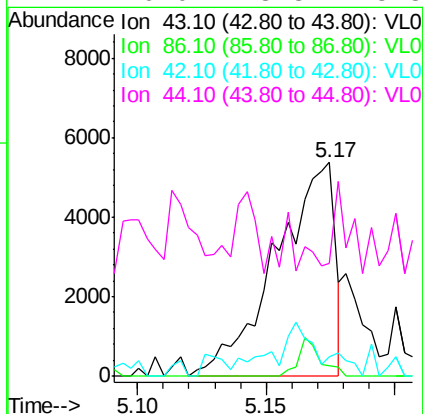
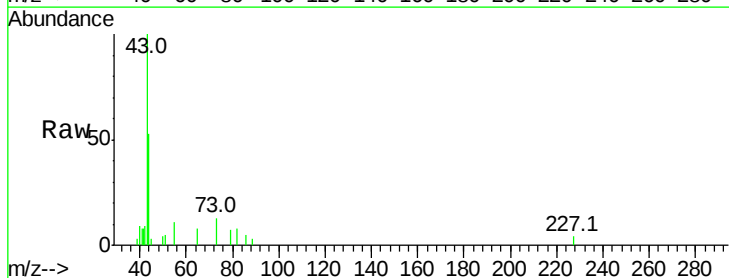
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

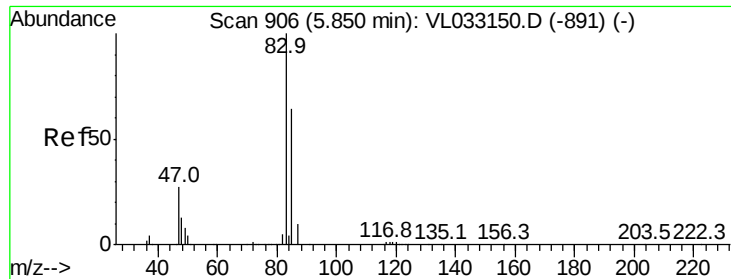
Tgt Ion: 84 Resp: 4739
Ion Ratio Lower Upper
84 100
49 171.0 121.1 181.7
51 22.7 37.5 56.3#
86 79.5 51.0 76.4#



#23
Vinyl Acetate
Concen: 0.033 ppbv
RT: 5.17 min Scan# 696
Delta R.T. 0.03 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion: 43 Resp: 8503
Ion Ratio Lower Upper
43 100
86 4.7 6.2 9.4#
42 8.9 7.7 11.5
44 0.0 3.8 5.8#





#29

Chloroform

Concen: 0.035 ppbv

RT: 5.85 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL033155.D

Acq: 4 Feb 2019 13:11

Instrument :

MSVOA_L

ClientSampleId :

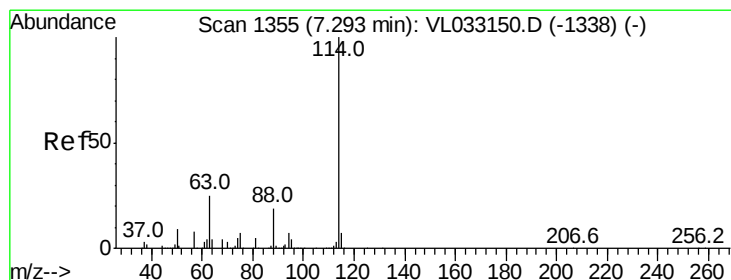
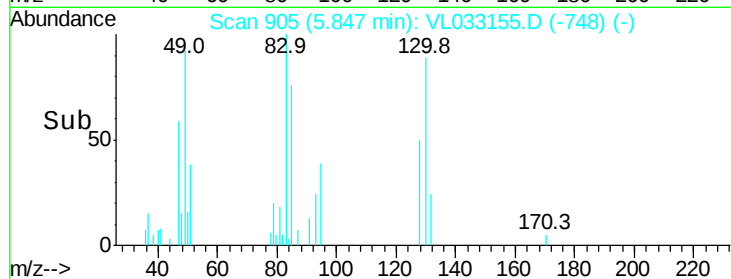
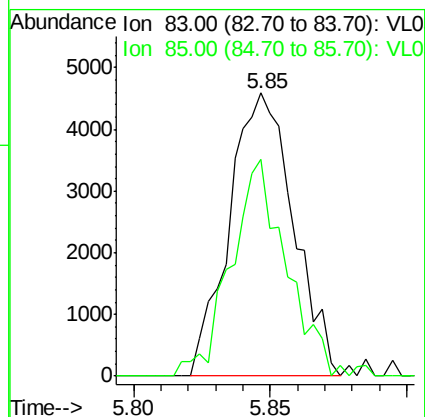
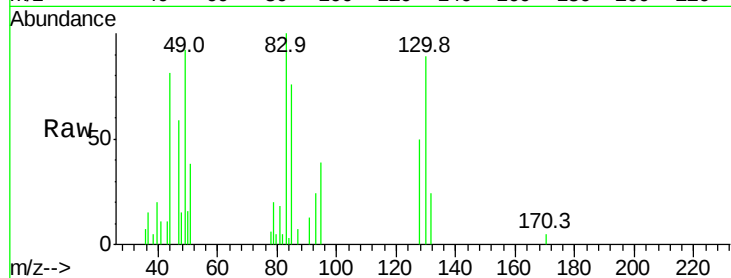
VSTDIC0.03

Tgt Ion: 83 Resp: 7515

Ion Ratio Lower Upper

83 100

85 72.6 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. 0.00 min

Lab File: VL033155.D

Acq: 4 Feb 2019 13:11

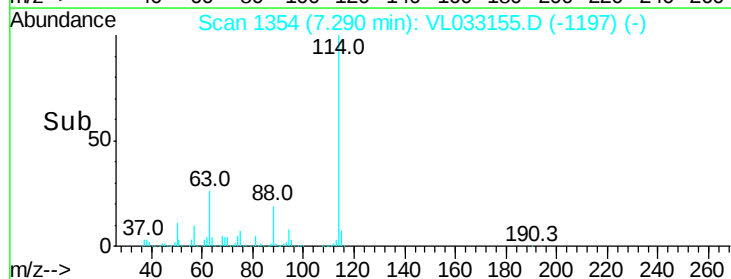
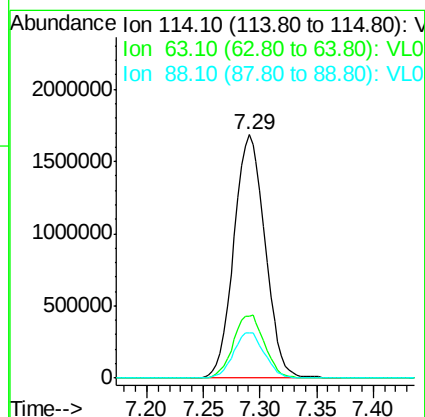
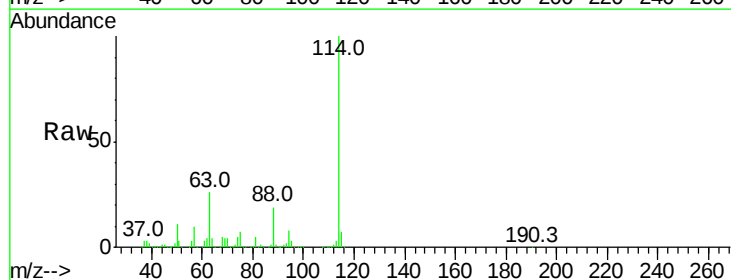
Tgt Ion: 114 Resp: 3240798

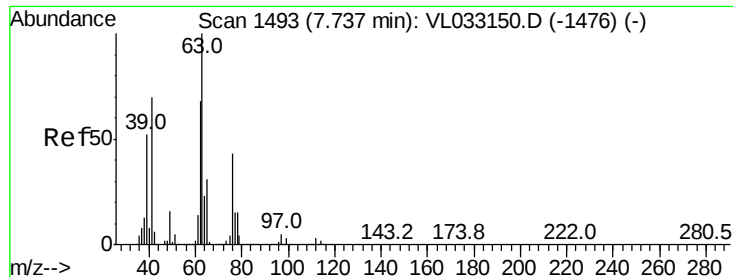
Ion Ratio Lower Upper

114 100

63 26.2 20.0 30.0

88 18.7 14.4 21.6





#39

1,2-Dichloropropane

Concen: 6.340 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.44 min

Lab File: VL033155.D

Acq: 4 Feb 2019 13:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

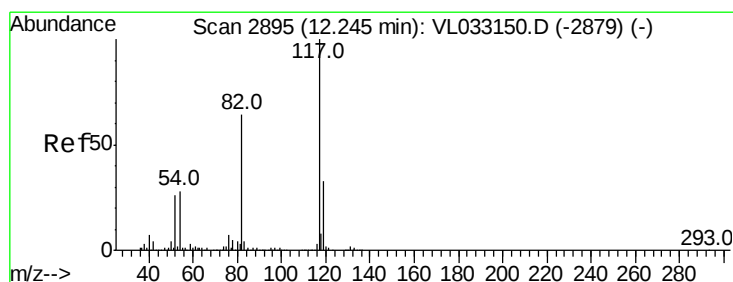
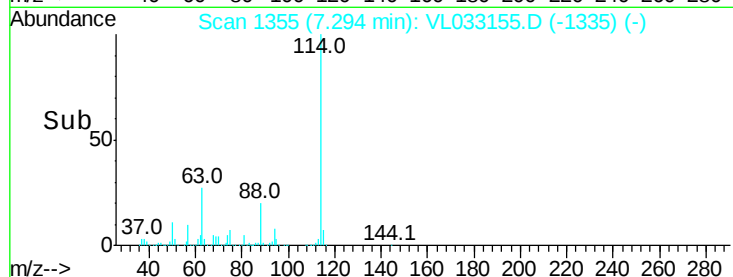
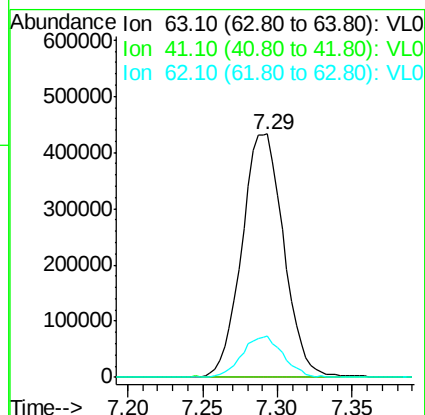
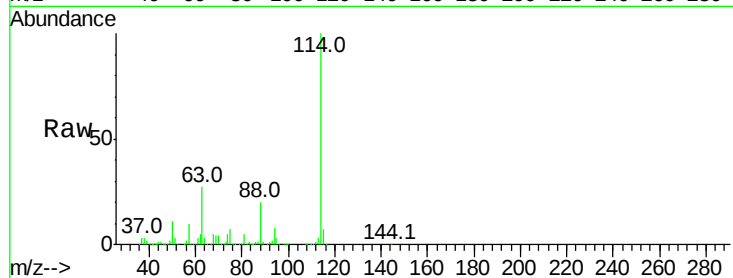
Tgt Ion: 63 Resp: 844491

Ion Ratio Lower Upper

63 100

41 0.1 53.2 79.8#

62 17.0 54.4 81.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033155.D

Acq: 4 Feb 2019 13:11

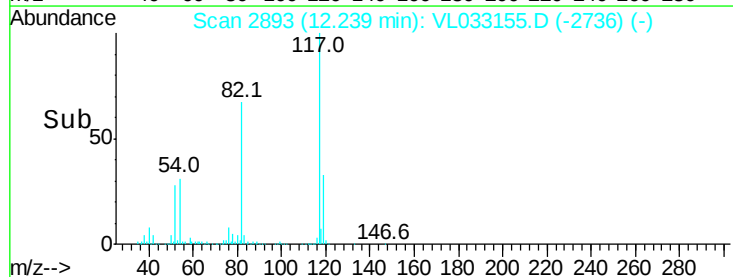
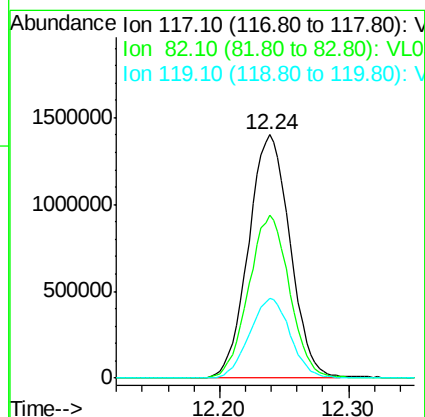
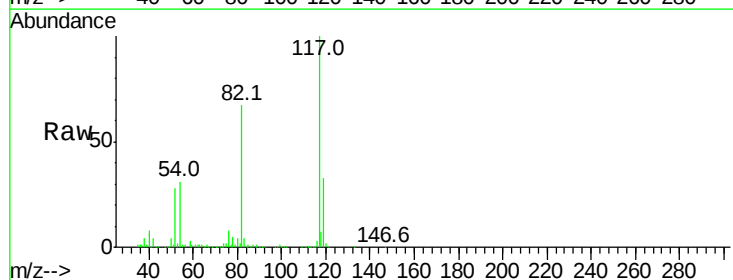
Tgt Ion: 117 Resp: 3141539

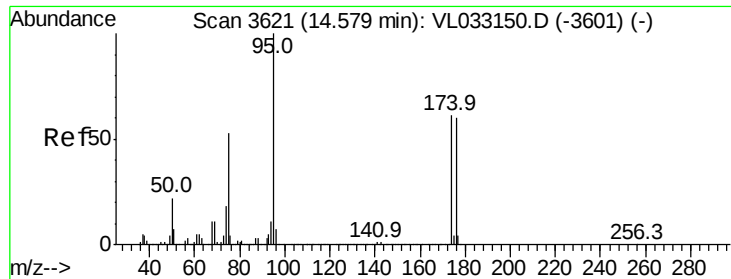
Ion Ratio Lower Upper

117 100

82 66.1 49.3 73.9

119 32.4 27.1 40.7

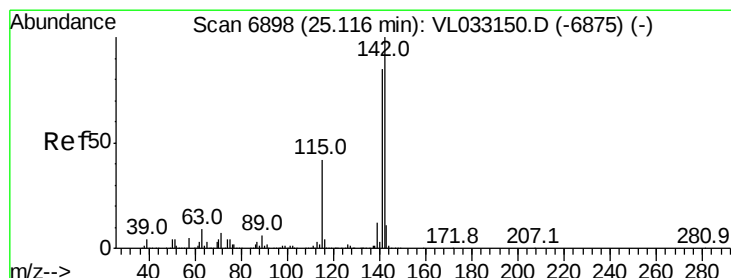
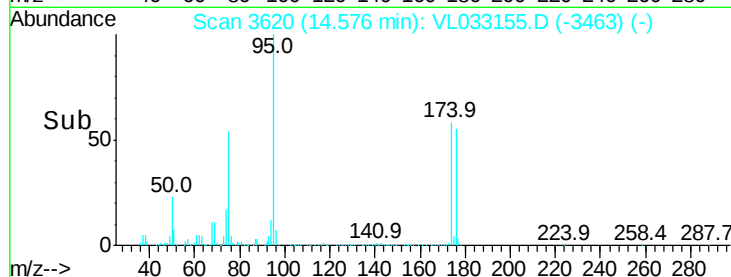
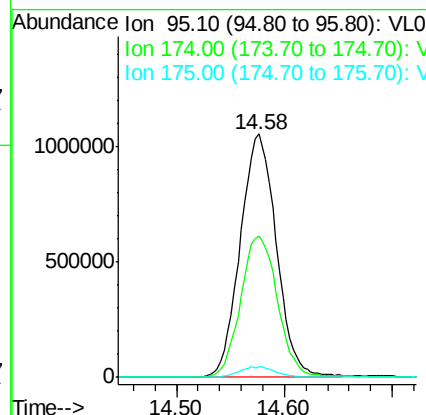
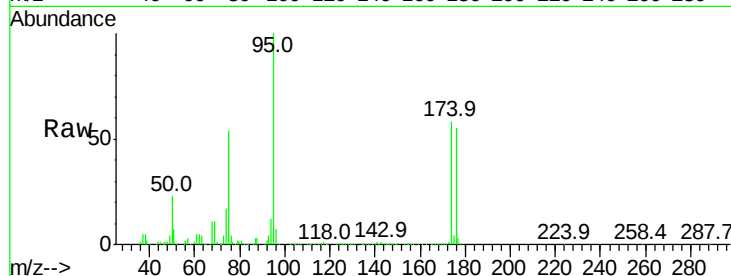




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.383 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. 0.00 min
 Lab File: VL033155.D
 Acq: 4 Feb 2019 13:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion: 95 Resp: 2462879
 Ion Ratio Lower Upper
 95 100
 174 60.0 49.2 73.8
 175 4.3 3.7 5.5



#80
 Naphthalene, 2-methyl-
 Concen: 0.053 ppbv
 RT: 25.13 min Scan# 6903
 Delta R.T. 0.03 min
 Lab File: VL033155.D
 Acq: 4 Feb 2019 13:11

Tgt Ion: 142 Resp: 4130
 Ion Ratio Lower Upper
 142 100
 141 89.3 66.5 99.7
 115 38.4 31.3 46.9

