

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071218\
 Data File : VL032233.D
 Acq On : 12 Jul 2018 21:29
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Quant Time: Jul 13 03:39:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 03:36:40 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1879900	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4057860	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4816078	10.00	ppbv	0.00

System Monitoring Compounds

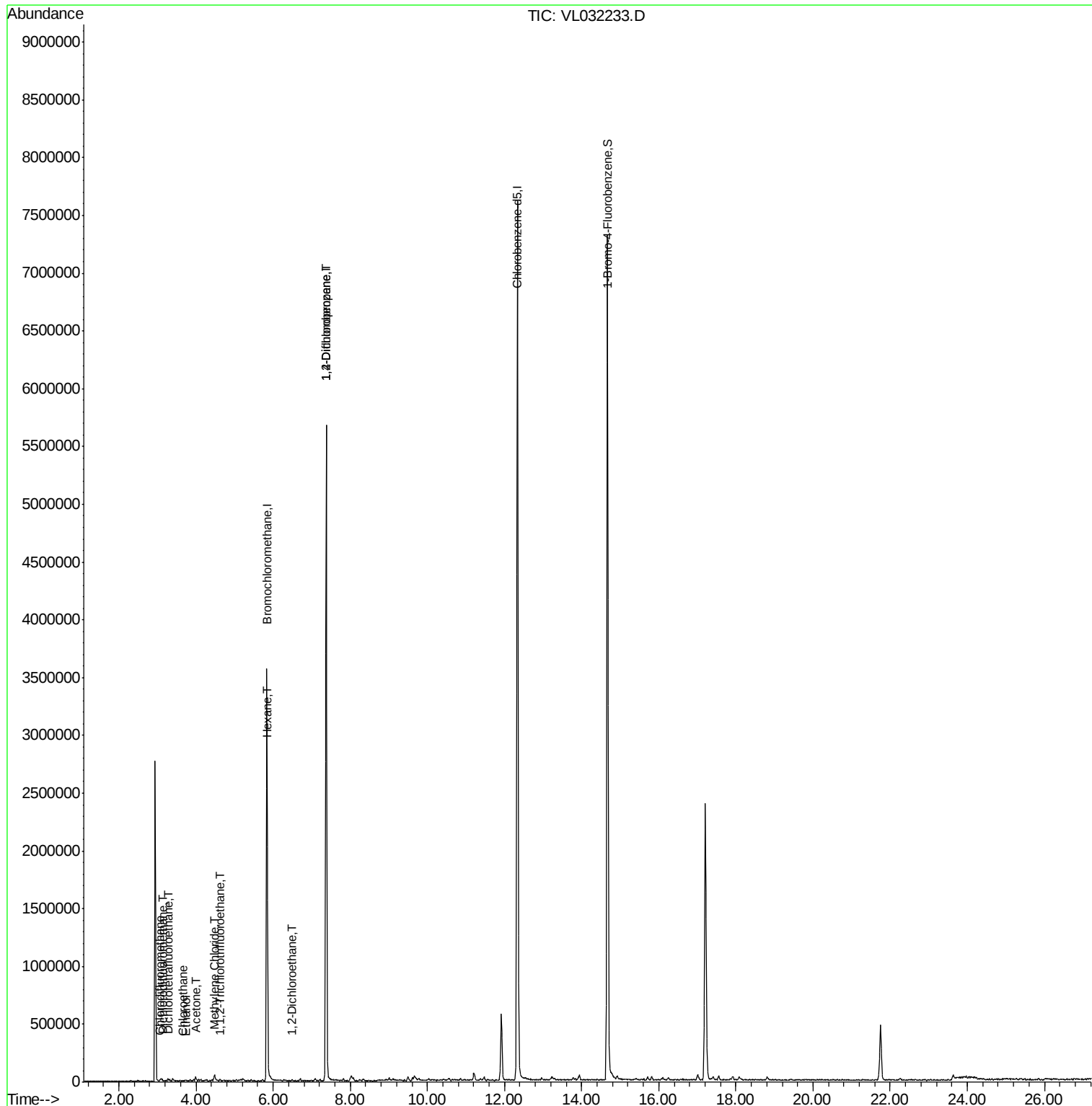
68) 1-Bromo-4-Fluorobenzene	14.67	95	3848760	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

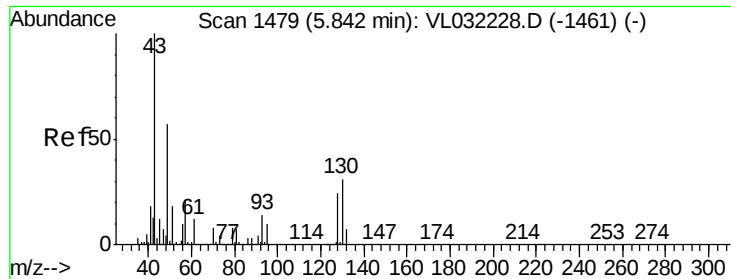
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	11012	0.043	ppbv	93
3) Chlorodifluoromethane	3.06	51	7182	0.030	ppbv #	85
7) Chloroethane	3.66	64	1103	0.024	ppbv #	89
8) Dichlorotetrafluoroethane	3.27	85	8697	0.031	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.62	101	5003	0.028	ppbv	98
13) Ethanol	3.72	45	693	0.022	ppbv #	36
15) Acetone	3.99	43	30793	0.141	ppbv	90
20) Methylene Chloride	4.48	84	17077	0.215	ppbv #	75
26) Hexane	5.86	57	6953	0.033	ppbv #	81
37) 1,2-Dichloroethane	6.49	62	6162	0.031	ppbv #	89
39) 1,2-Dichloropropane	7.38	63	1145479	7.349	ppbv #	27

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL071218\  
Data File : VL032233.D  
Acq On    : 12 Jul 2018   21:29  
Operator   : SY/AP  
Sample     : VSTDICC0.03  
Misc       : 400ml/MSV0A_L  
ALS Vial   : 1   Sample Multiplier: 1
```

Quant Time: Jul 13 03:39:49 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jul 13 03:36:40 2018
QLast Update : Fri Jul 13 03:36:40 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

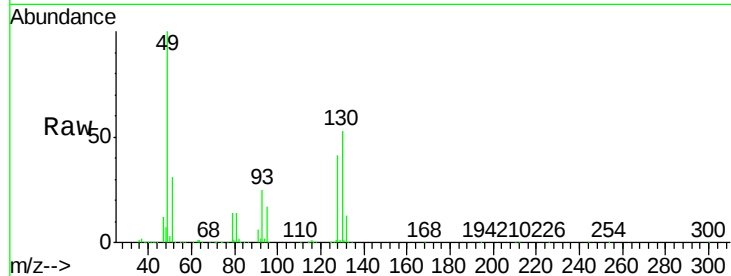
Tgt Ion: 49 Resp: 1879900

Ion Ratio Lower Upper

49 100

128 41.3 20.9 62.8

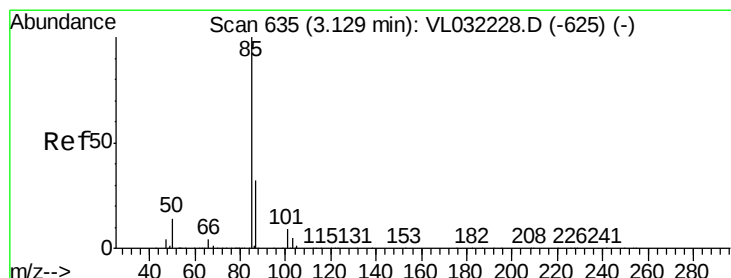
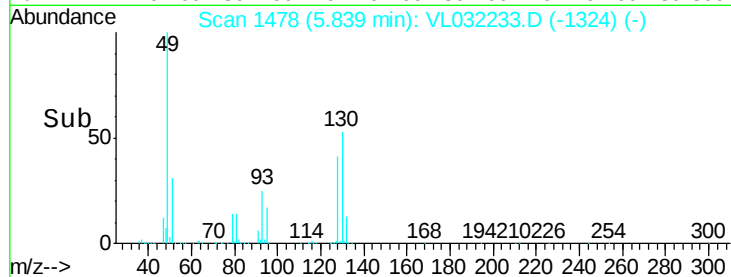
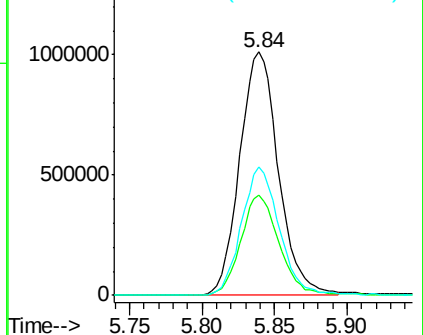
130 52.1 27.0 81.0



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: 0.043 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032233.D

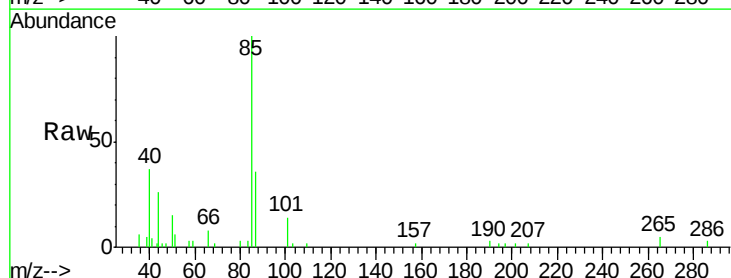
Acq: 12 Jul 2018 21:29

Tgt Ion: 85 Resp: 11012

Ion Ratio Lower Upper

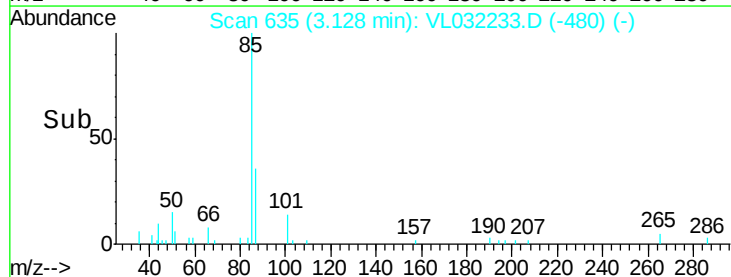
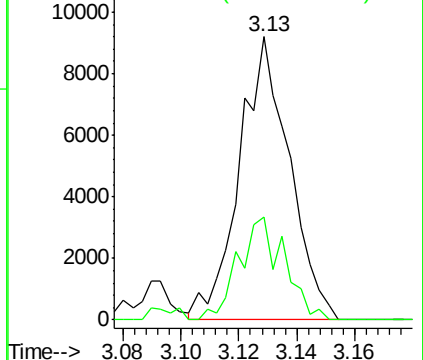
85 100

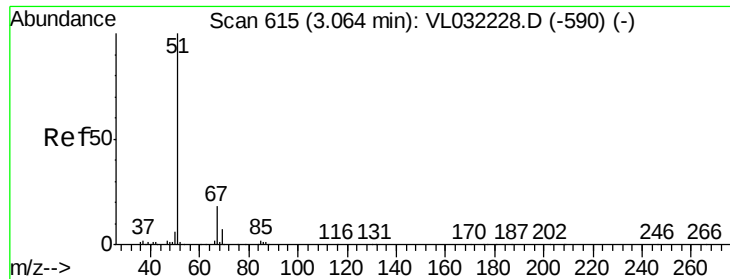
87 36.3 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.030 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

Instrument :

MSVOA_L

ClientSampleId :

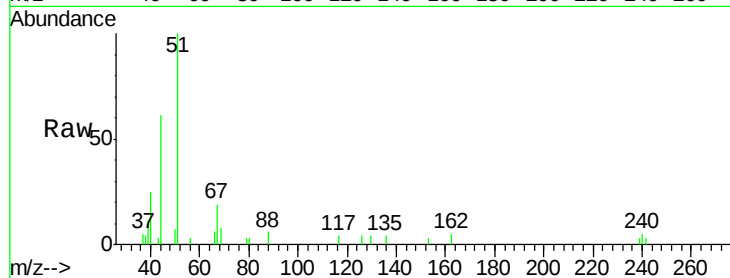
VSTDIC0.03

Tgt Ion: 51 Resp: 7182

Ion Ratio Lower Upper

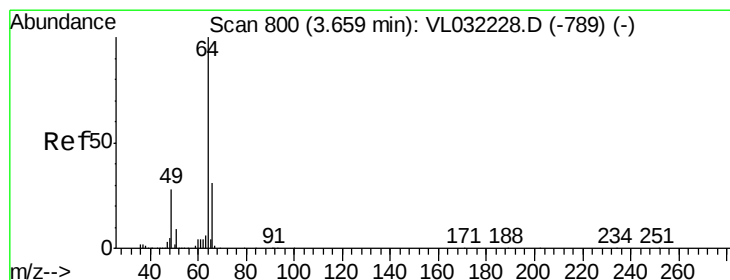
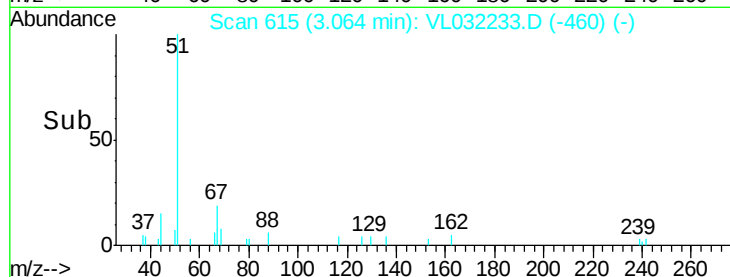
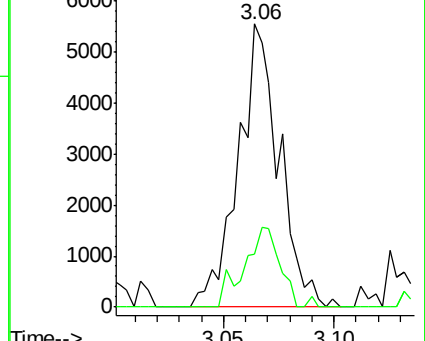
51 100

67 24.9 14.6 22.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.024 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.00 min

Lab File: VL032233.D

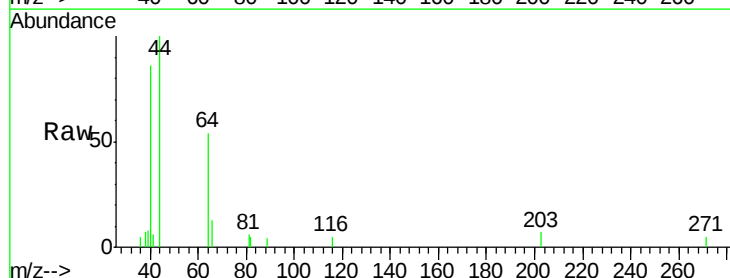
Acq: 12 Jul 2018 21:29

Tgt Ion: 64 Resp: 1103

Ion Ratio Lower Upper

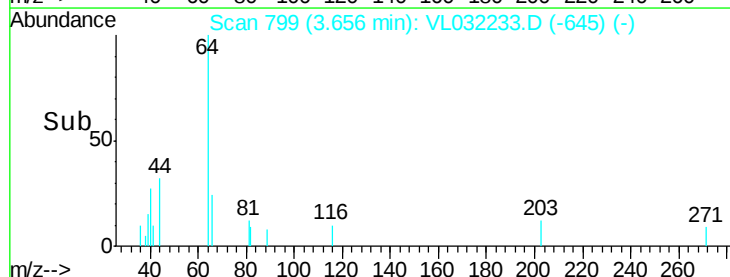
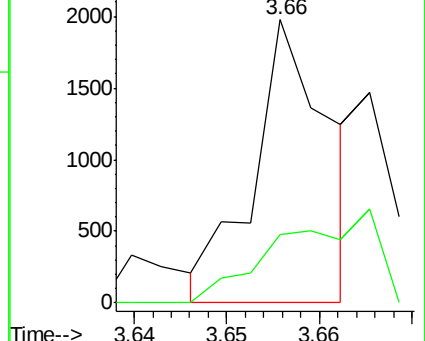
64 100

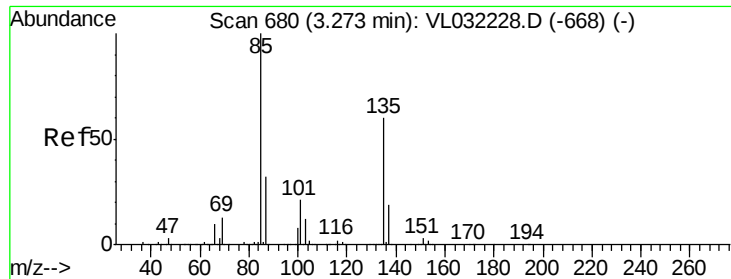
66 24.2 24.4 36.6#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.031 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

Instrument :

MSVOA_L

ClientSampleId :

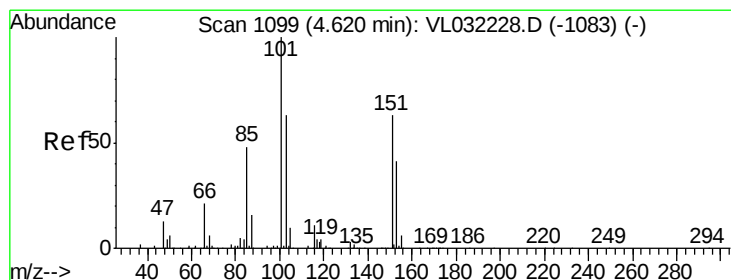
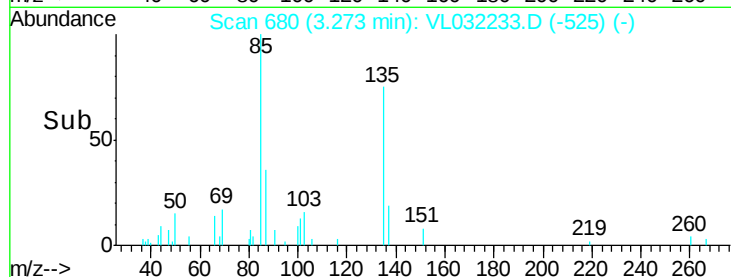
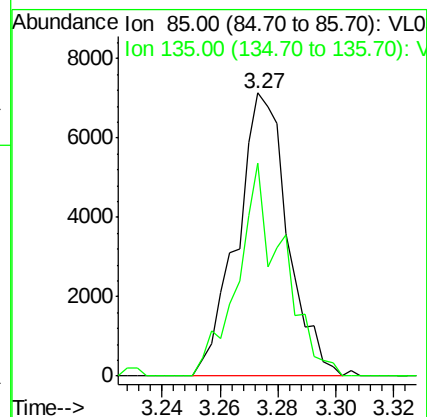
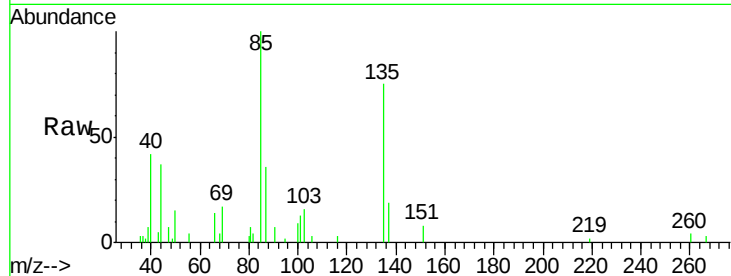
VSTDIC0.03

Tgt Ion: 85 Resp: 8697

Ion Ratio Lower Upper

85 100

135 66.8 48.6 72.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.028 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VL032233.D

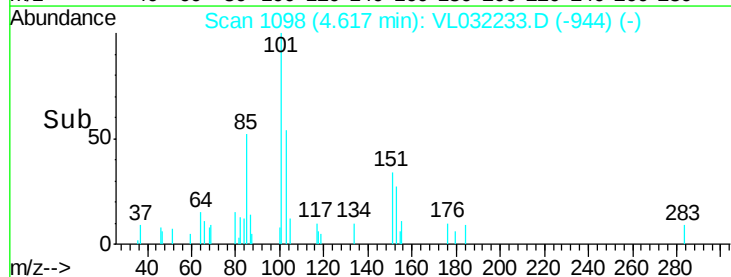
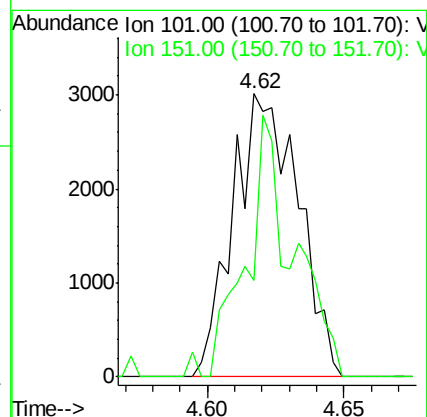
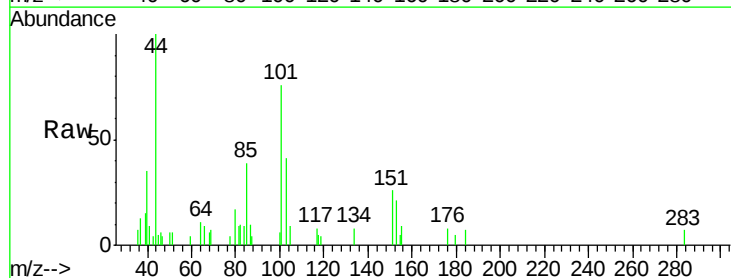
Acq: 12 Jul 2018 21:29

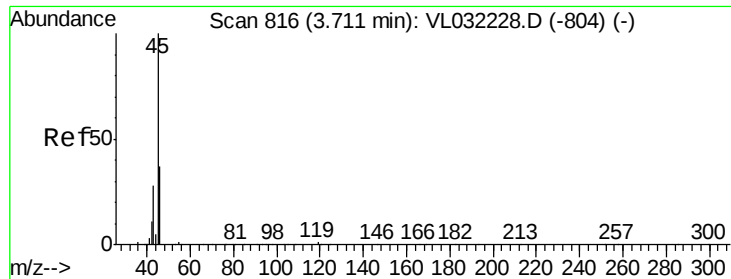
Tgt Ion: 101 Resp: 5003

Ion Ratio Lower Upper

101 100

151 67.1 52.2 78.2

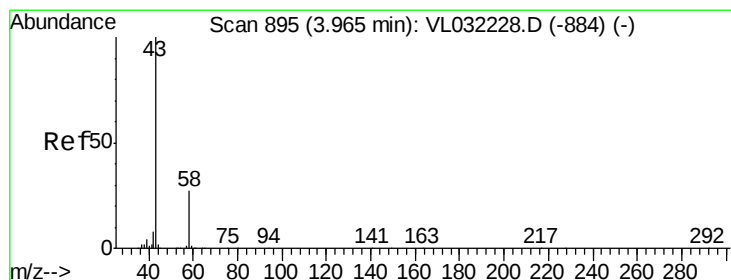
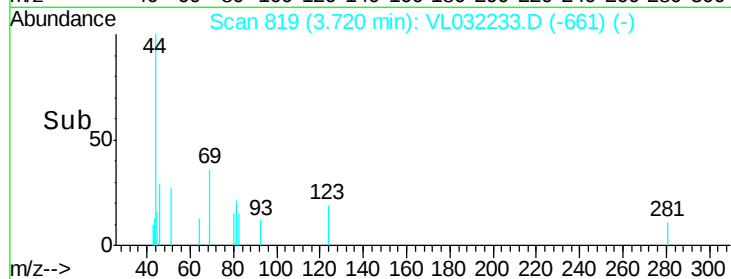
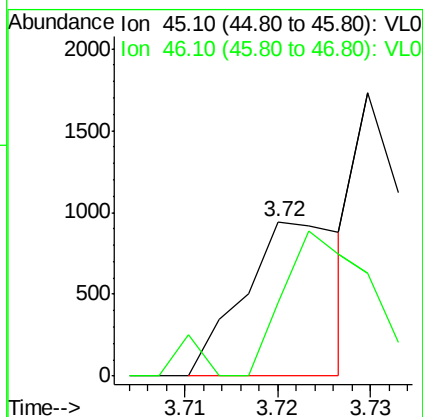
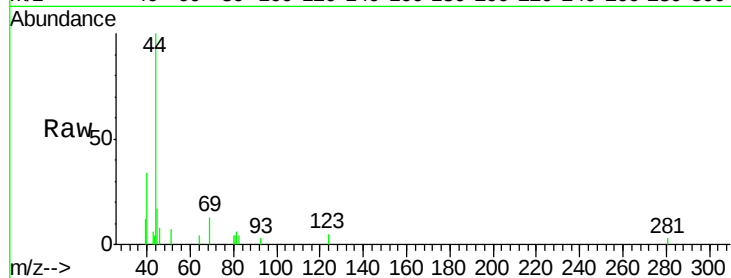




#13
Ethanol
Concen: 0.022 ppbv
RT: 3.72 min Scan# 819
Delta R.T. 0.01 min
Lab File: VL032233.D
Acq: 12 Jul 2018 21:29

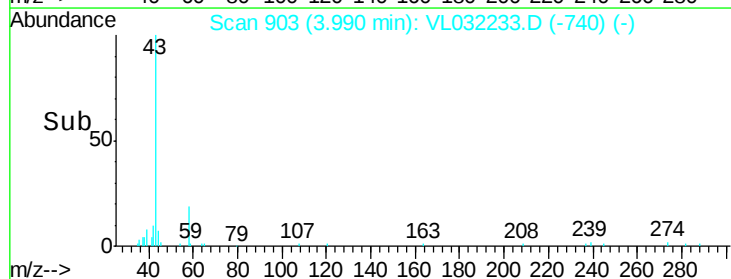
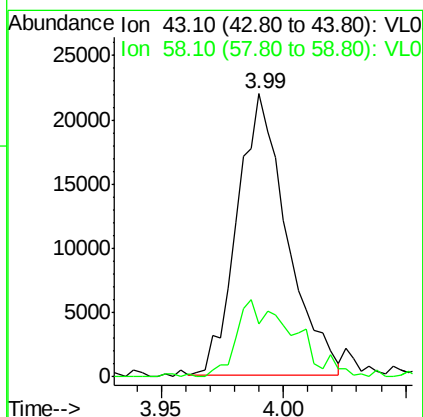
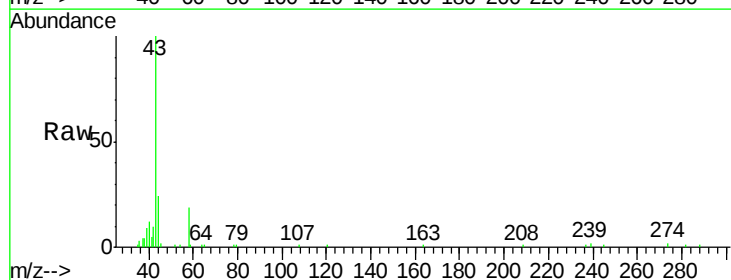
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

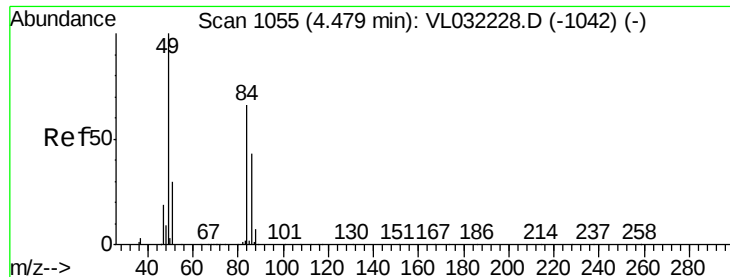
Tgt Ion: 45 Resp: 693
Ion Ratio Lower Upper
45 100
46 0.0 15.5 61.9#



#15
Acetone
Concen: 0.141 ppbv
RT: 3.99 min Scan# 903
Delta R.T. 0.03 min
Lab File: VL032233.D
Acq: 12 Jul 2018 21:29

Tgt Ion: 43 Resp: 30793
Ion Ratio Lower Upper
43 100
58 32.2 21.5 32.3

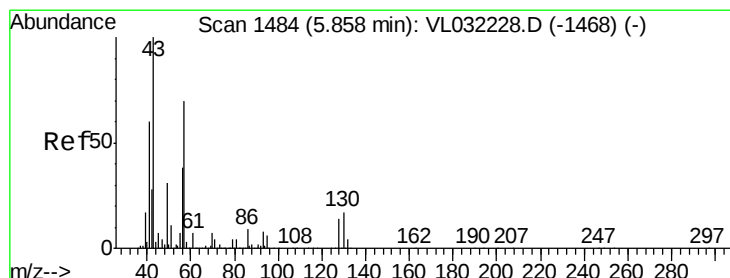
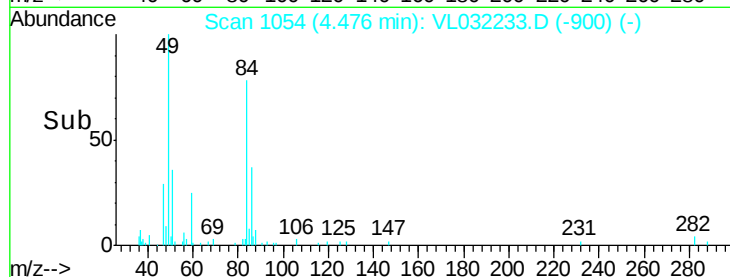
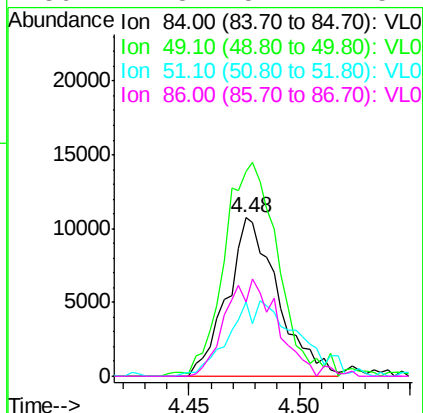
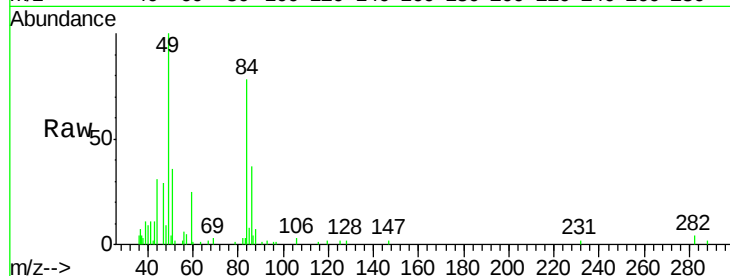




#20
Methylene Chloride
Concen: 0.215 ppbv
RT: 4.48 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VL032233.D
Acq: 12 Jul 2018 21:29

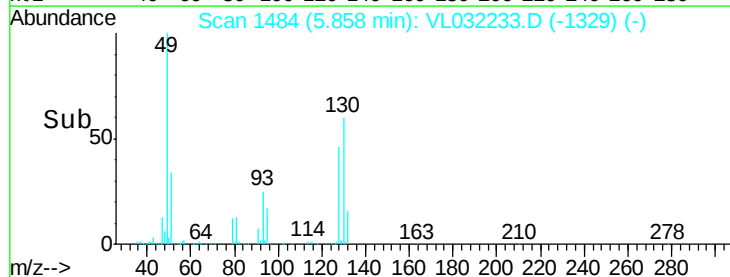
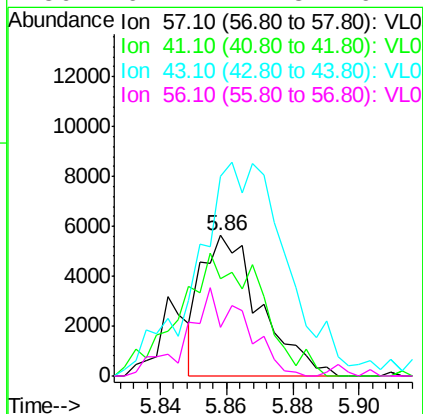
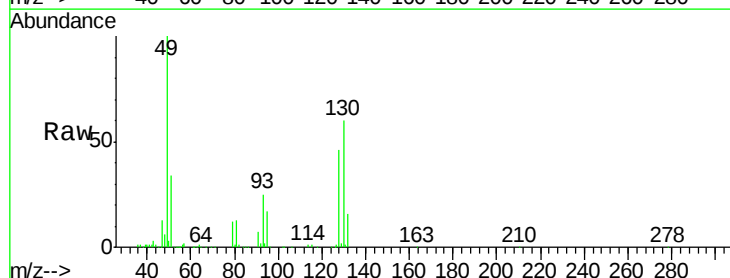
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

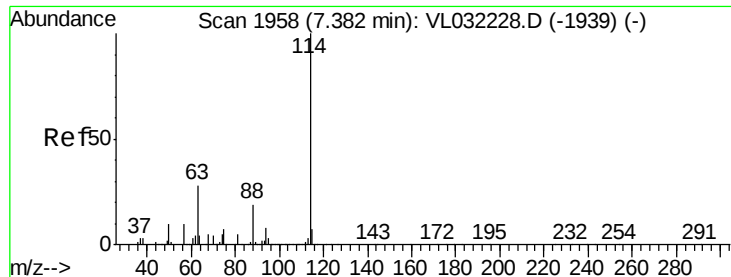
Tgt Ion: 84 Resp: 17077
Ion Ratio Lower Upper
84 100
49 114.2 121.8 182.6#
51 40.5 36.3 54.5
86 42.8 52.1 78.1#



#26
Hexane
Concen: 0.033 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032233.D
Acq: 12 Jul 2018 21:29

Tgt Ion: 57 Resp: 6953
Ion Ratio Lower Upper
57 100
41 121.0 68.7 103.1#
43 239.6 176.2 264.2
56 64.7 42.8 64.2#

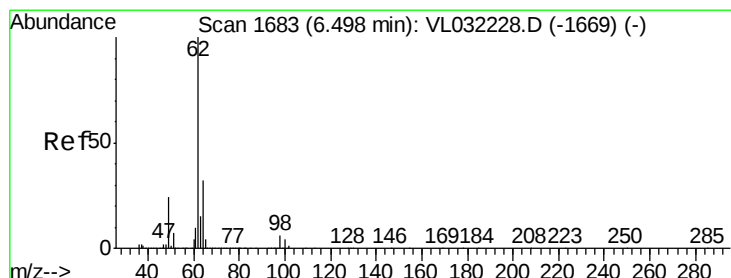
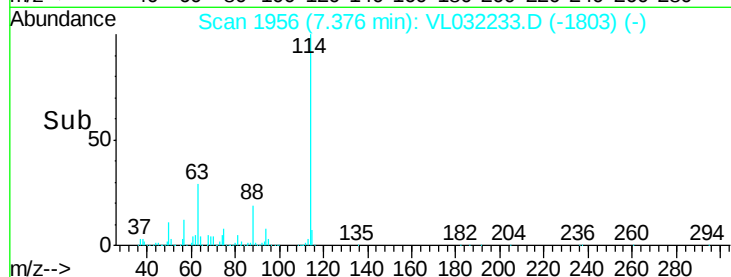
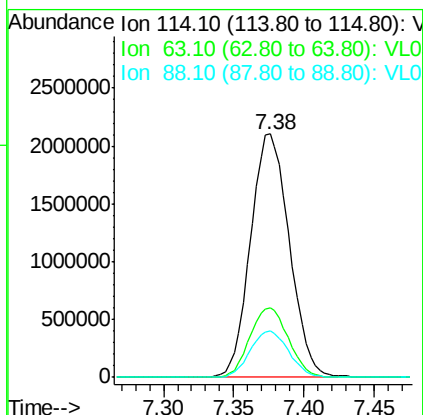
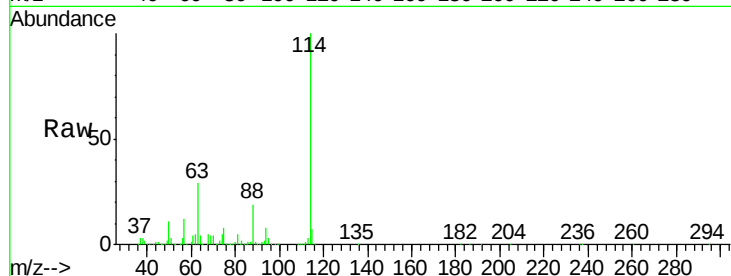




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: VL032233.D
 Acq: 12 Jul 2018 21:29

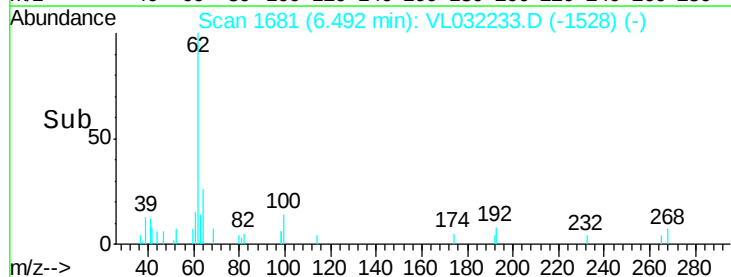
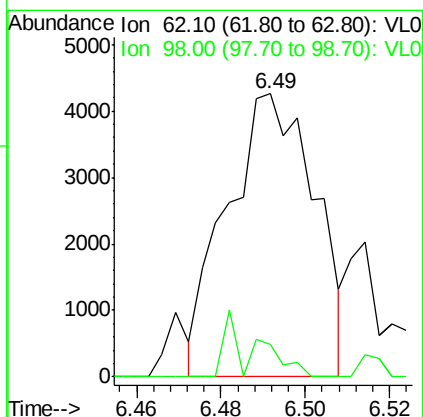
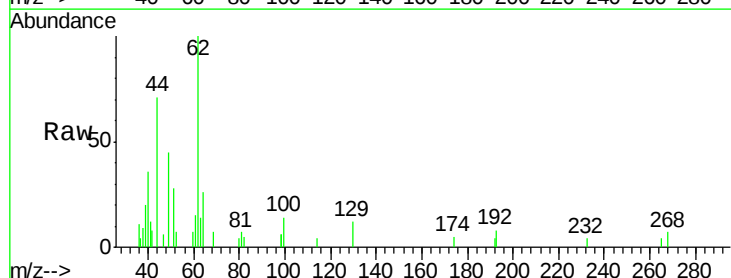
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

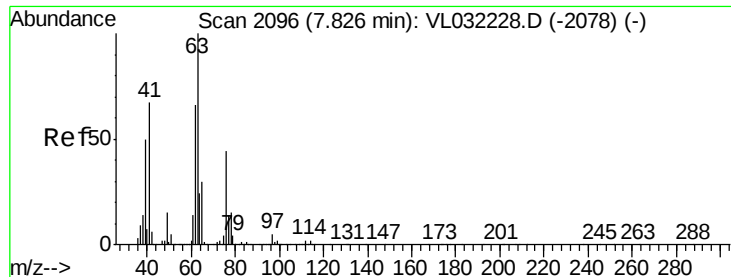
Tgt Ion:114 Resp: 4057860
 Ion Ratio Lower Upper
 114 100
 63 28.5 22.5 33.7
 88 19.0 15.4 23.0



#37
 1,2-Dichloroethane
 Concen: 0.031 ppbv
 RT: 6.49 min Scan# 1681
 Delta R.T. -0.01 min
 Lab File: VL032233.D
 Acq: 12 Jul 2018 21:29

Tgt Ion: 62 Resp: 6162
 Ion Ratio Lower Upper
 62 100
 98 9.6 4.6 7.0#





#39

1,2-Dichloropropane

Concen: 7.349 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.45 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

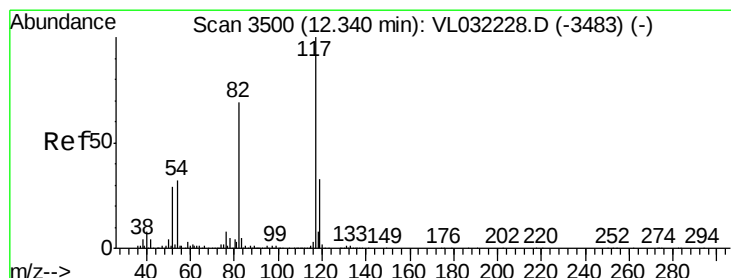
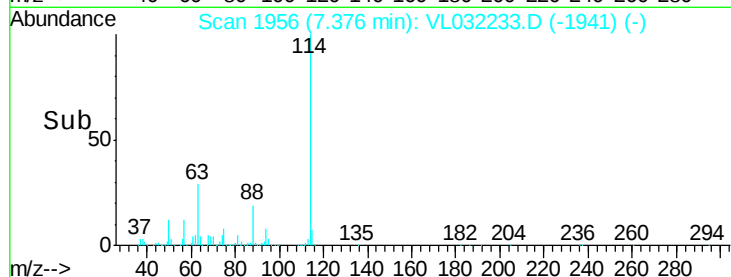
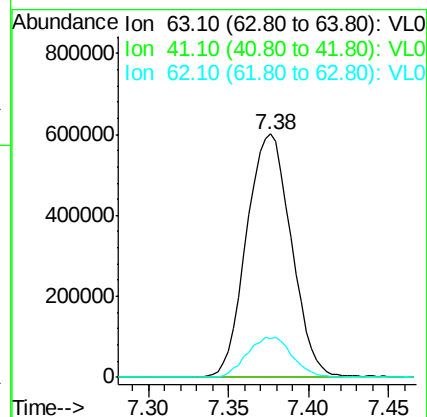
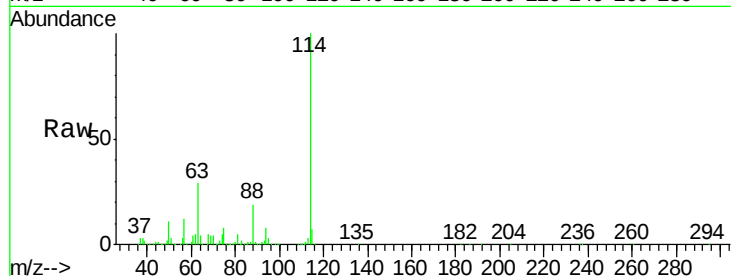
Tgt Ion: 63 Resp: 1145479

Ion Ratio Lower Upper

63 100

41 0.0 53.8 80.6#

62 16.0 53.1 79.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3498

Delta R.T. -0.01 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

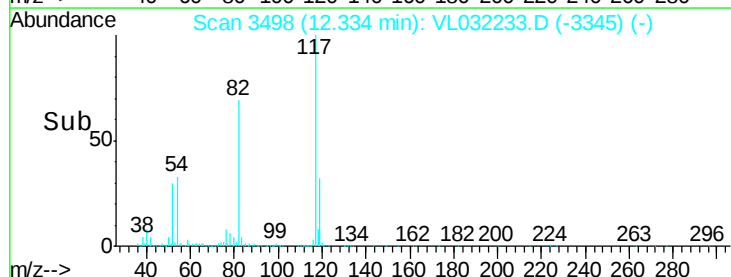
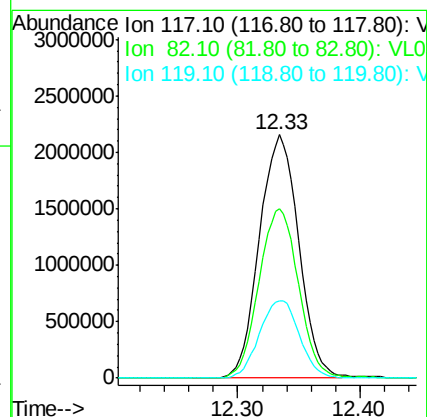
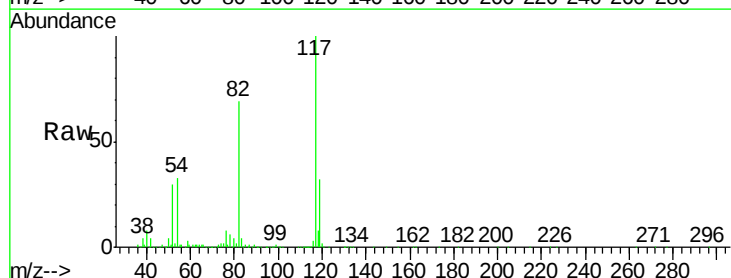
Tgt Ion: 117 Resp: 4816078

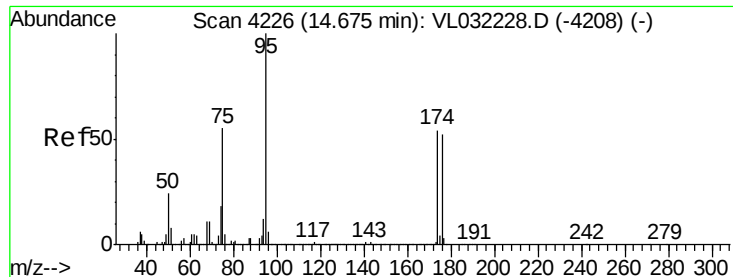
Ion Ratio Lower Upper

117 100

82 70.6 53.2 79.8

119 32.8 43.9 65.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.410 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032233.D

Acq: 12 Jul 2018 21:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

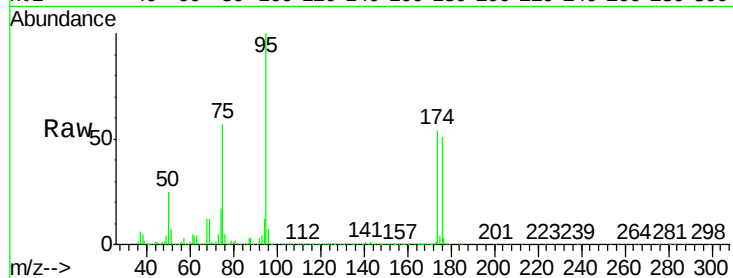
Tgt Ion: 95 Resp: 3848760

Ion Ratio Lower Upper

95 100

174 55.6 44.6 67.0

175 4.0 3.3 4.9



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

