

Data File : VL033095.D
Acq On : 16 Jan 2019 17:01
Operator : SY/AP
Sample : K1130-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA1A

Quant Time: Jan 17 01:54:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 04 16:09:05 2019
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1007447	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2363571	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2158707	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1713413	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	53241	0.284	ppbv	95
3) Chlorodifluoromethane	3.01	51	44550	0.391	ppbv	91
4) Chloromethane	3.17	50	34774	0.532	ppbv	95
9) Propene	3.24	41	25215	0.592	ppbv	92
11) Trichlorofluoromethane	4.00	101	44428	0.214	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6464	0.049	ppbv #	68
13) Ethanol	3.66	45	67092	3.949	ppbv	90
15) Acetone	3.91	43	115459	0.828	ppbv	94
19) Isopropyl Alcohol	4.04	45	12743	0.133	ppbv #	75
20) Methylene Chloride	4.41	84	59333	1.021	ppbv	96
25) Ethyl Acetate	5.78	43	41660	0.177	ppbv #	84
26) Hexane	5.78	57	46971	0.423	ppbv #	44
34) 2-Butanone	5.35	43	8229	0.060	ppbv	91
36) Benzene	7.00	78	14416	0.074	ppbv #	89
39) 1,2-Dichloropropane	7.29	63	607807	8.357	ppbv #	23
53) Toluene	9.94	91	18459	0.089	ppbv #	74

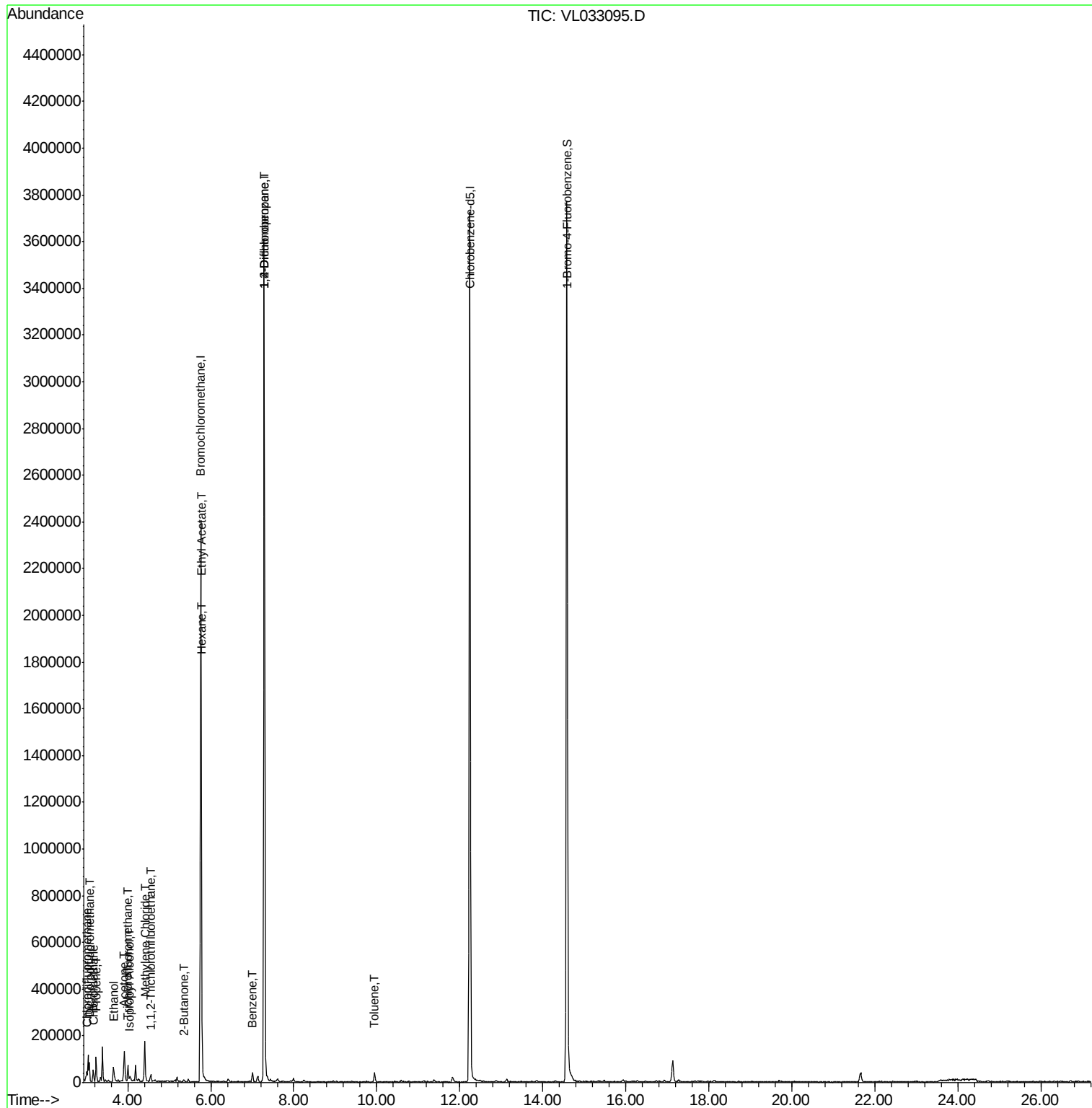
(#) = qualifier out of range (m) = manual integration (+) = signals summed

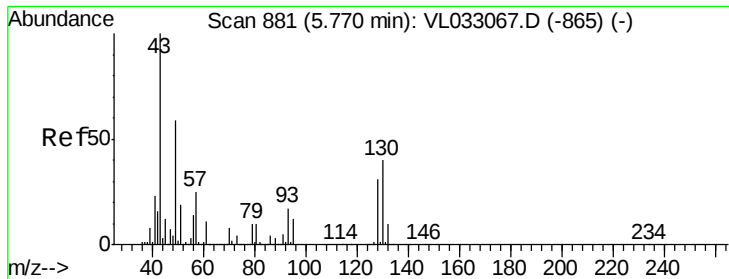
Data File : VL033095.D

```
Acq On       : 16 Jan 2019  17:01
Operator     : SY/AP
Sample       : K1130-02
Misc         : 400ml/MSV0A_L
ALS Vial     : 1      Sample Multipl
```

Instrument :
MSVOA_L
ClientSampleId :
OA1A

Quant Time: Jan 17 01:54:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jan 04 16:09:05 2019
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

QA1A

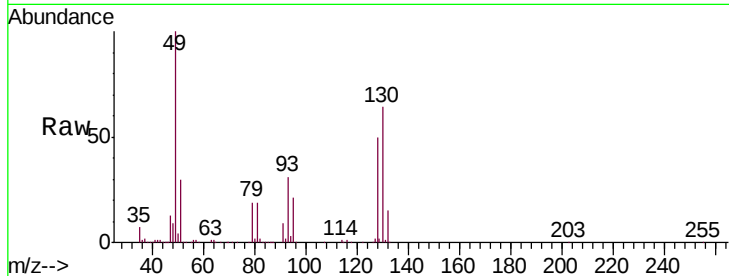
Tgt Ion: 49 Resp: 1007447

Ion Ratio Lower Upper

49 100

128 52.1 26.2 78.5

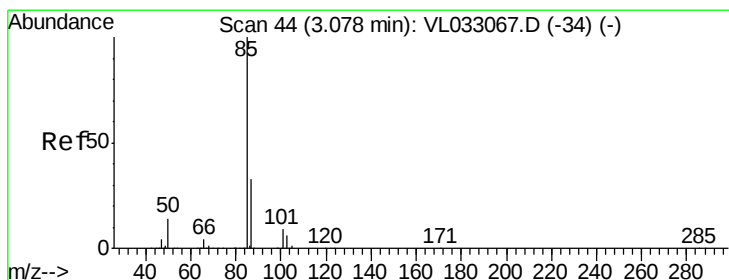
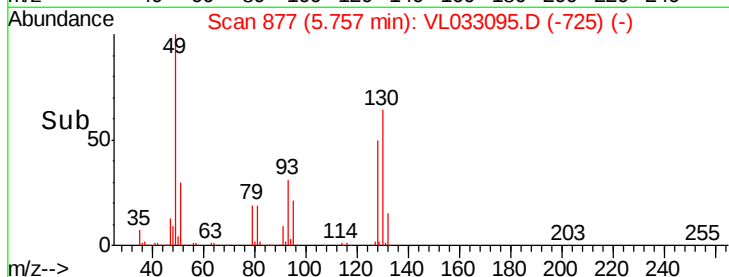
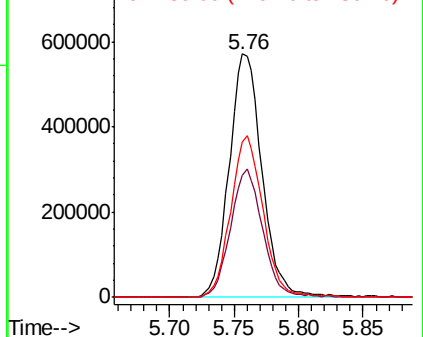
130 66.2 33.6 100.6



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: 0.284 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033095.D

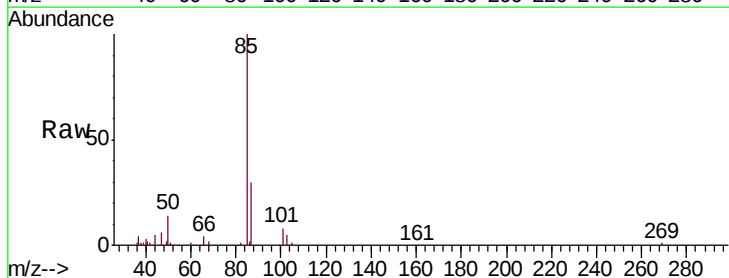
Acq: 16 Jan 2019 17:01

Tgt Ion: 85 Resp: 53241

Ion Ratio Lower Upper

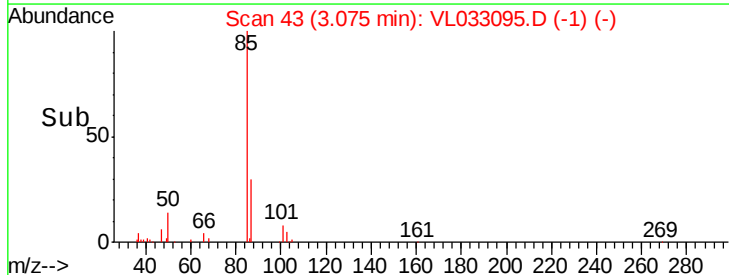
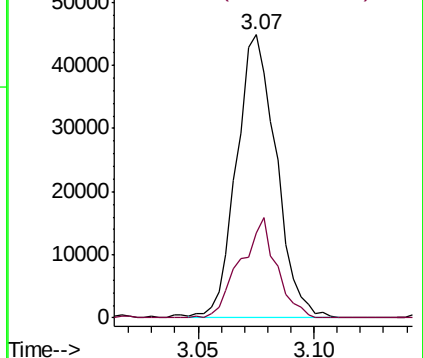
85 100

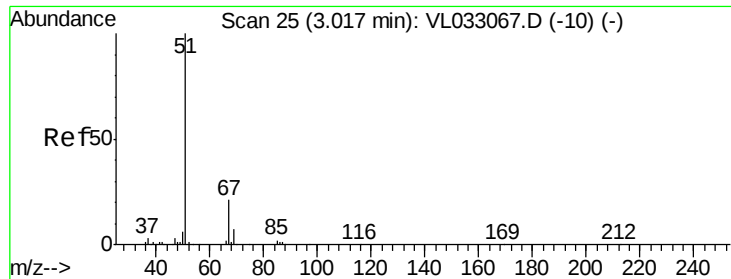
87 30.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.391 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

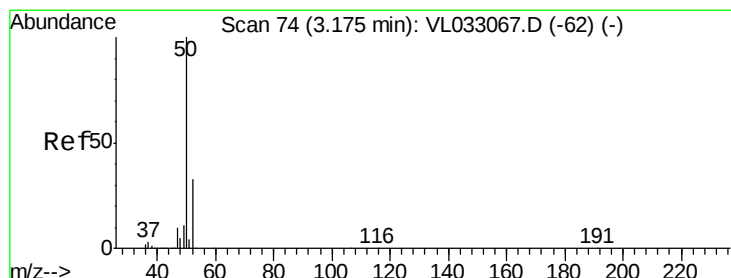
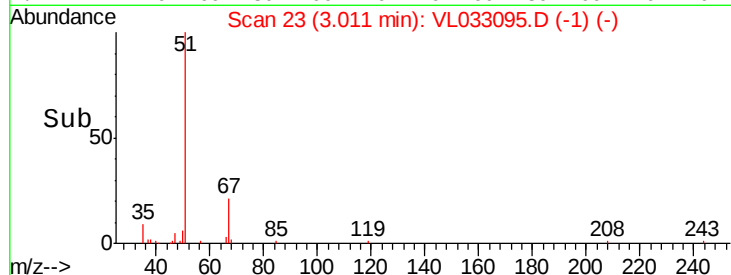
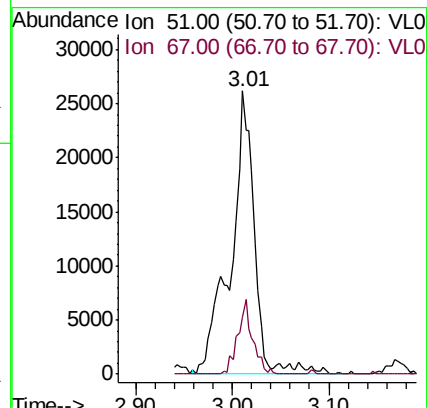
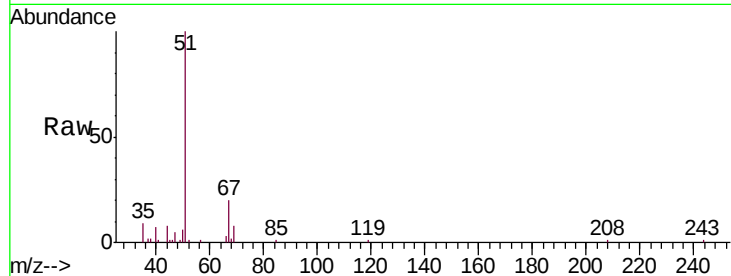
QA1A

Tgt Ion: 51 Resp: 44550

Ion Ratio Lower Upper

51 100

67 16.4 16.3 24.5



#4

Chloromethane

Concen: 0.532 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033095.D

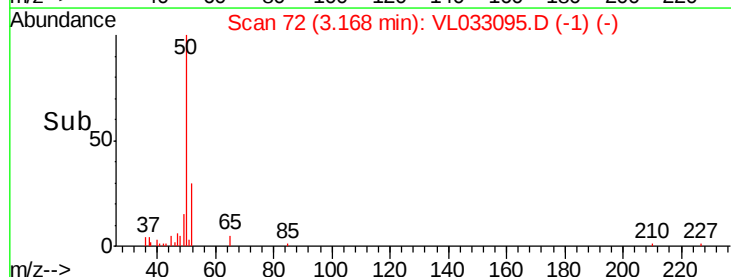
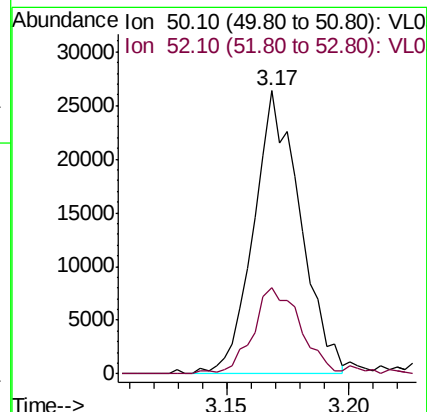
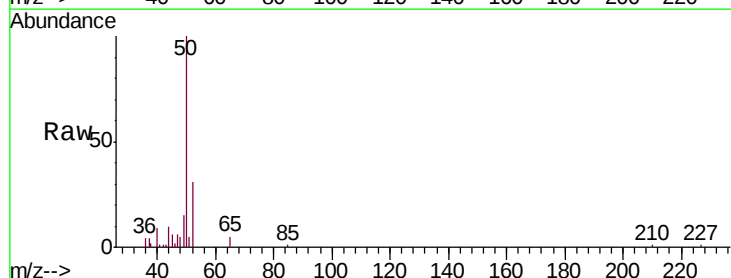
Acq: 16 Jan 2019 17:01

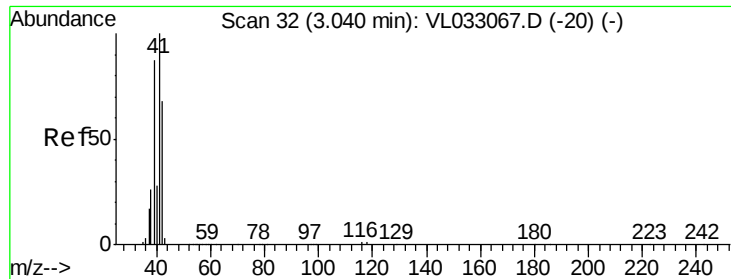
Tgt Ion: 50 Resp: 34774

Ion Ratio Lower Upper

50 100

52 30.6 26.9 40.3





#9

Propene

Concen: 0.592 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

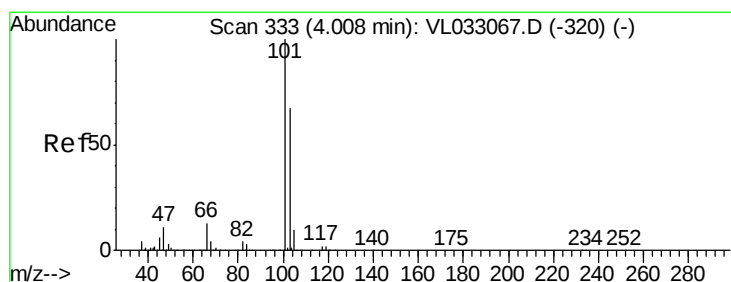
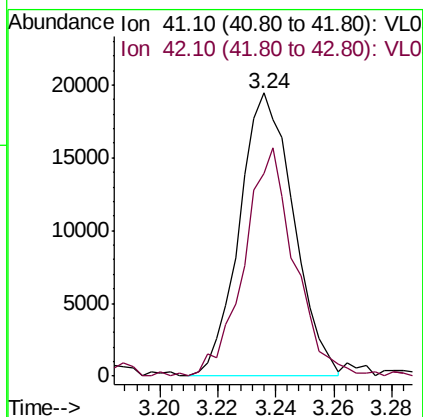
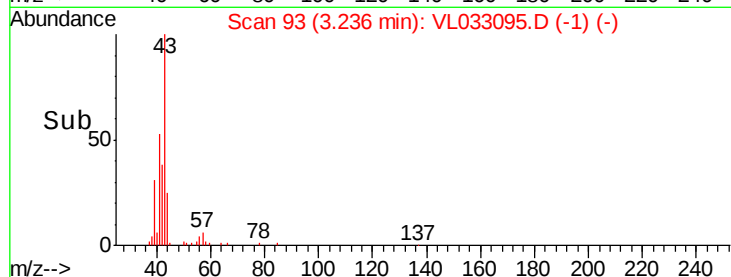
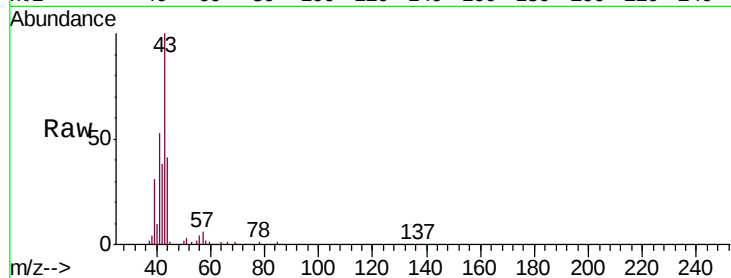
QA1A

Tgt Ion: 41 Resp: 25215

Ion Ratio Lower Upper

41 100

42 75.5 55.3 82.9



#11

Trichlorofluoromethane

Concen: 0.214 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033095.D

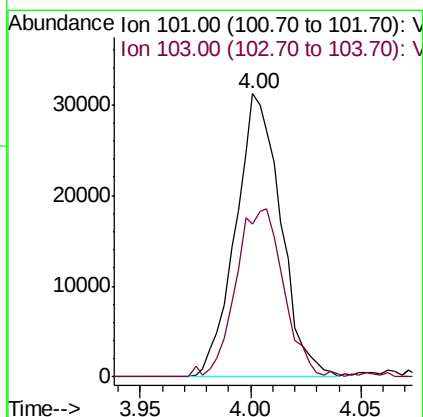
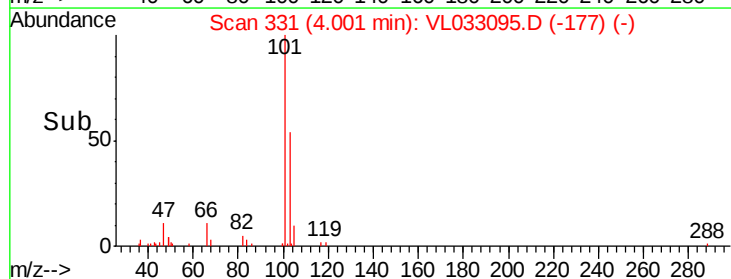
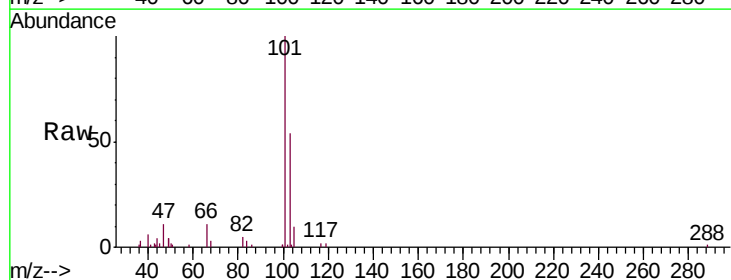
Acq: 16 Jan 2019 17:01

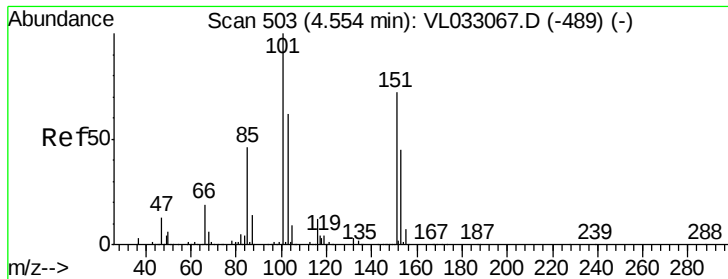
Tgt Ion: 101 Resp: 44428

Ion Ratio Lower Upper

101 100

103 54.2 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

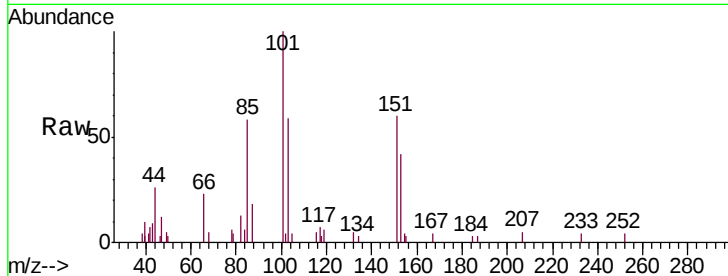
QA1A

Tgt Ion: 101 Resp: 6464

Ion Ratio Lower Upper

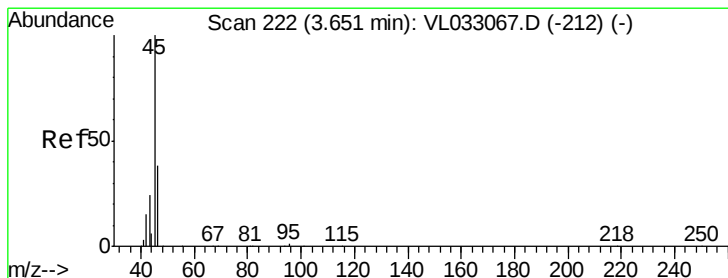
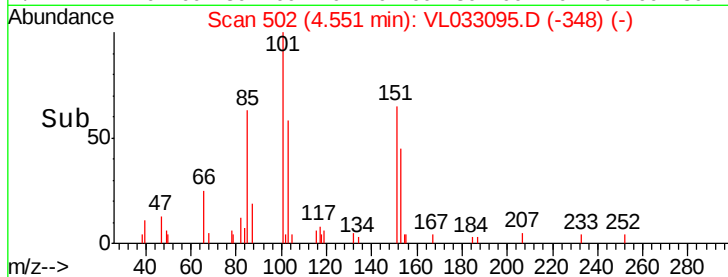
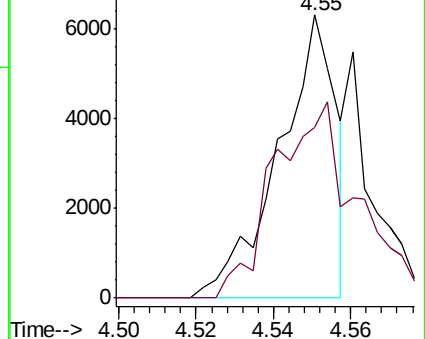
101 100

151 99.6 58.3 87.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 3.949 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033095.D

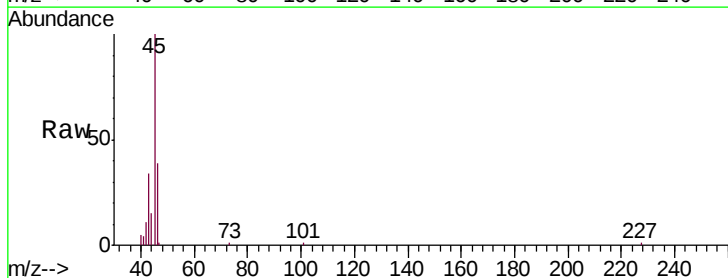
Acq: 16 Jan 2019 17:01

Tgt Ion: 45 Resp: 67092

Ion Ratio Lower Upper

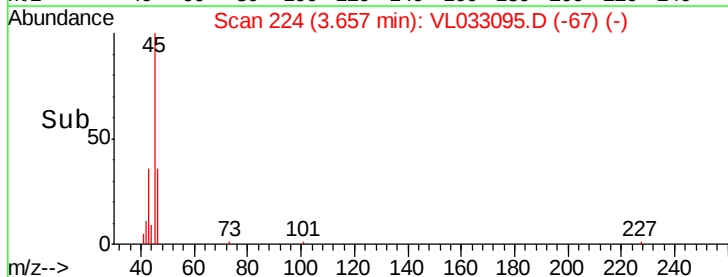
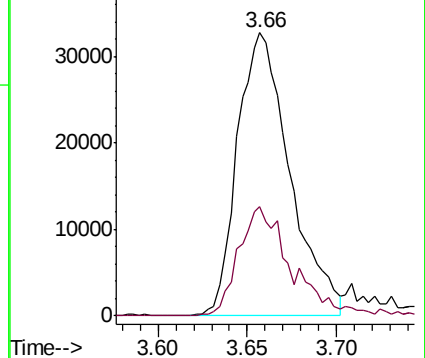
45 100

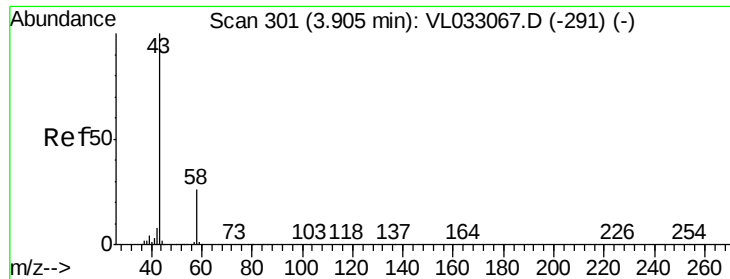
46 40.5 13.8 55.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.828 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

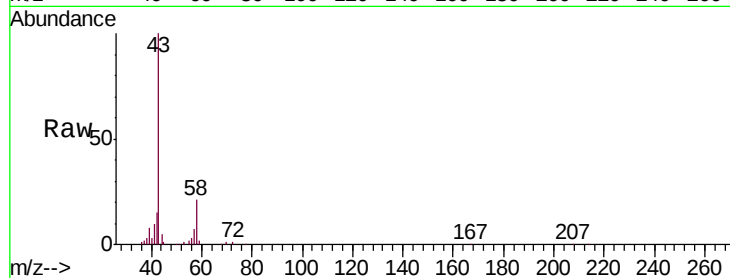
QA1A

Tgt Ion: 43 Resp: 115459

Ion Ratio Lower Upper

43 100

58 23.6 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

80000

60000

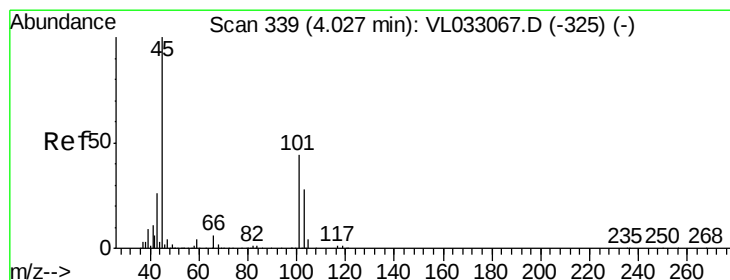
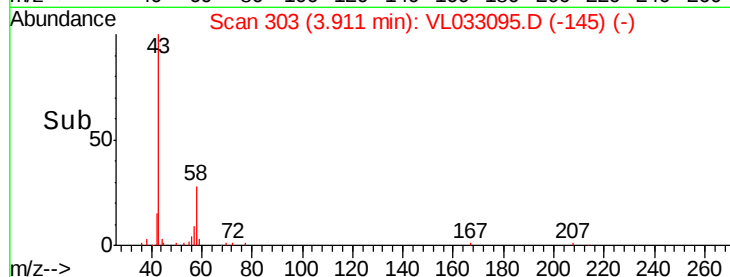
40000

20000

0

Time-->

3.85 3.90 3.95



#19

Isopropyl Alcohol

Concen: 0.133 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033095.D

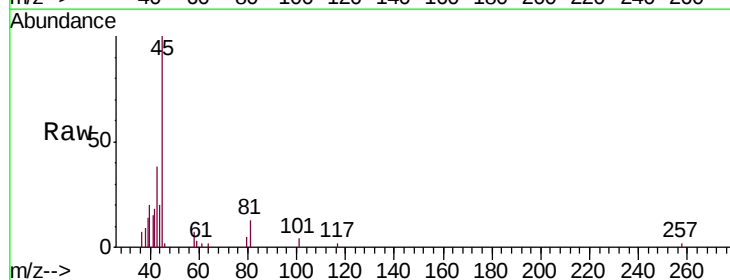
Acq: 16 Jan 2019 17:01

Tgt Ion: 45 Resp: 12743

Ion Ratio Lower Upper

45 100

58 10.7 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

10000

8000

6000

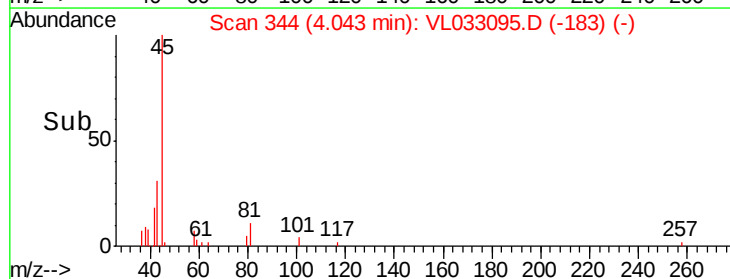
4000

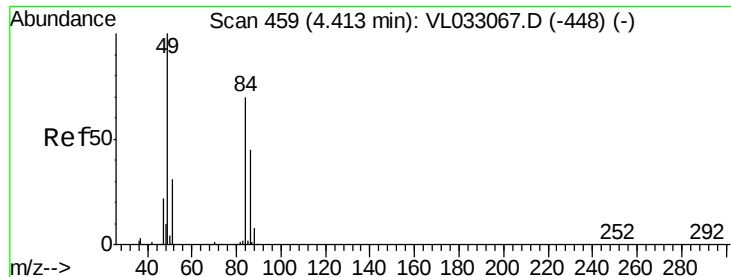
2000

0

Time-->

4.00 4.02 4.04 4.06

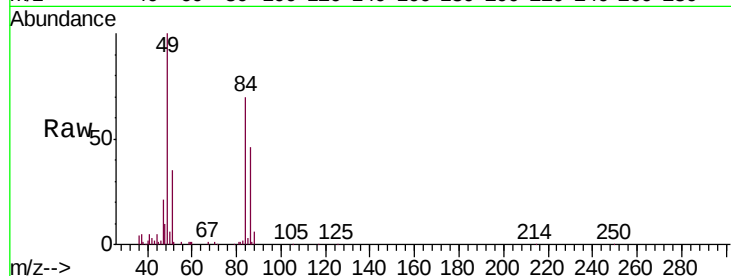




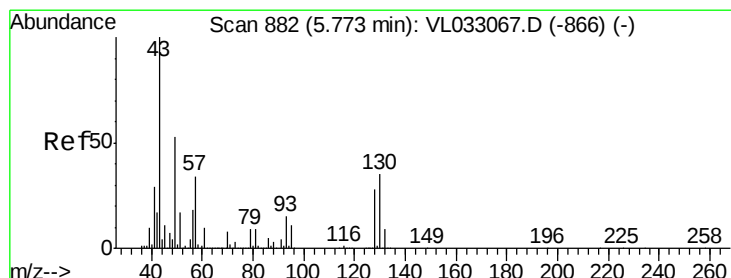
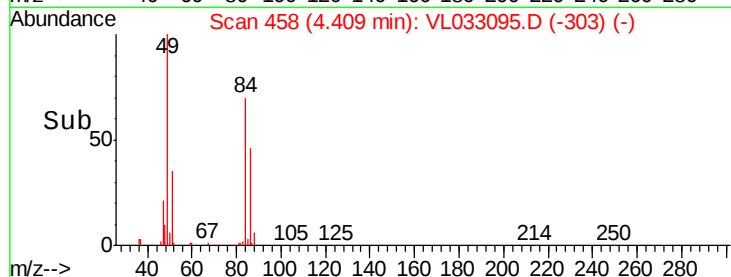
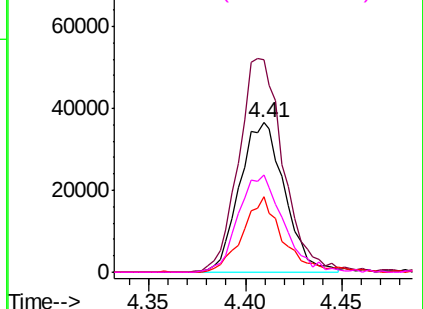
#20
Methylene Chloride
Concen: 1.021 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Instrument :
MSVOA_L
ClientSampleId :
OA1A

Tgt Ion: 84 Resp: 59333
Ion Ratio Lower Upper
84 100
49 142.4 115.8 173.6
51 50.4 35.7 53.5
86 65.4 49.7 74.5

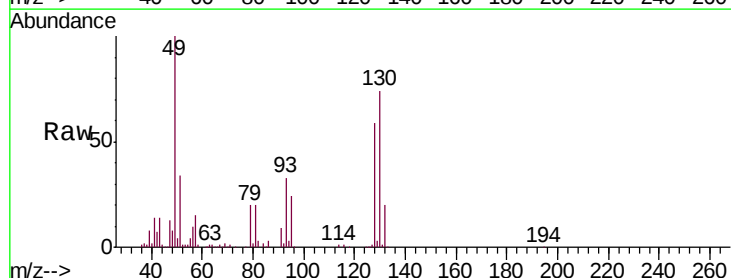


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

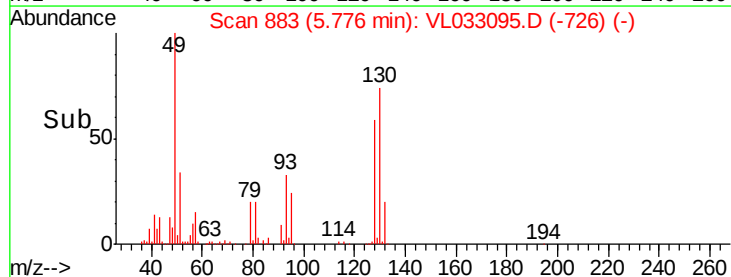
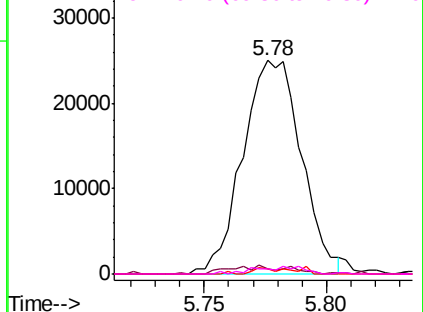


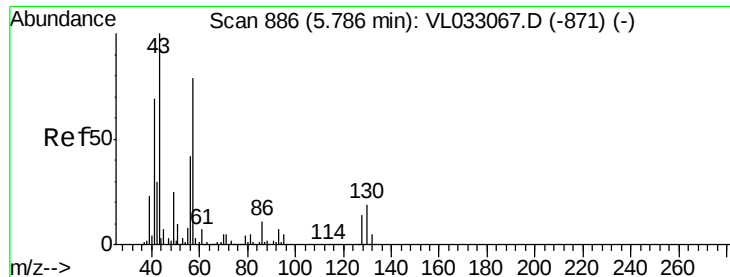
#25
Ethyl Acetate
Concen: 0.177 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tgt Ion: 43 Resp: 41660
Ion Ratio Lower Upper
43 100
45 4.4 7.9 11.9#
61 2.1 7.8 11.8#
70 3.1 6.0 9.0#



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: 0.423 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

QA1A

Tgt Ion: 57 Resp: 46971

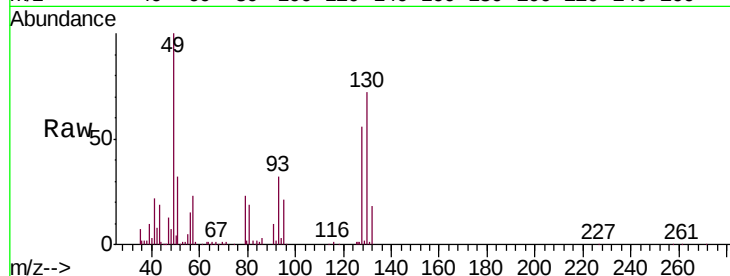
Ion Ratio Lower Upper

57 100

41 106.9 70.8 106.2#

43 90.7 171.8 257.6#

56 68.3 41.9 62.9#

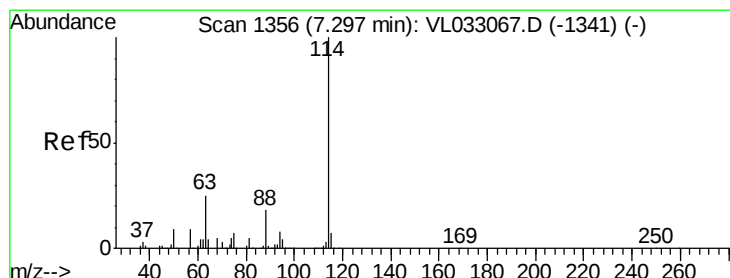
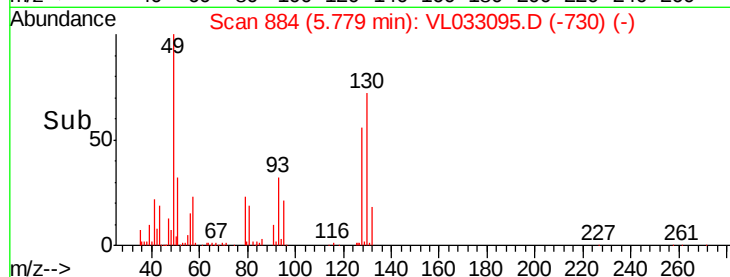
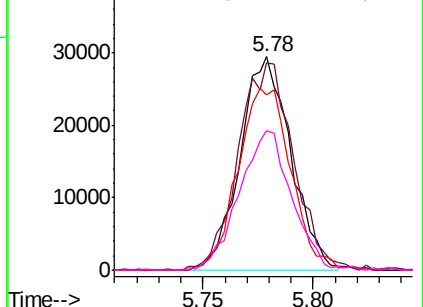


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: VL033095.D

Acq: 16 Jan 2019 17:01

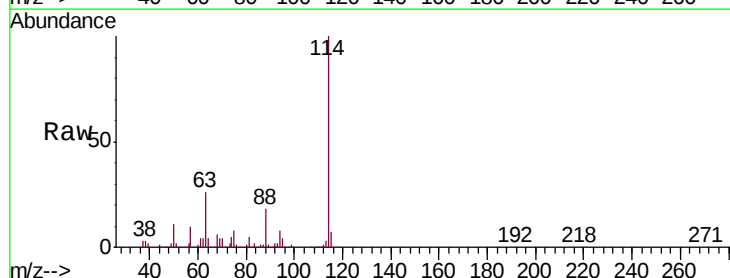
Tgt Ion: 114 Resp: 2363571

Ion Ratio Lower Upper

114 100

63 25.9 20.1 30.1

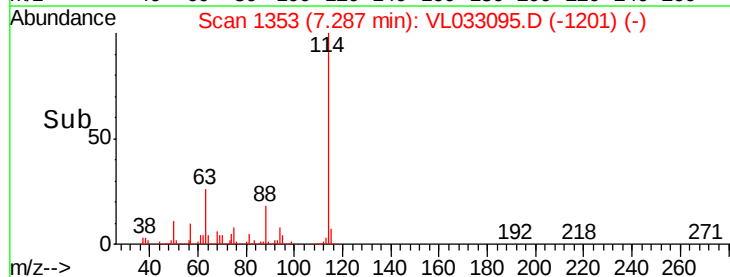
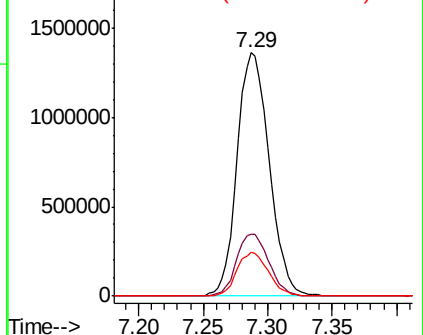
88 17.9 14.0 21.0

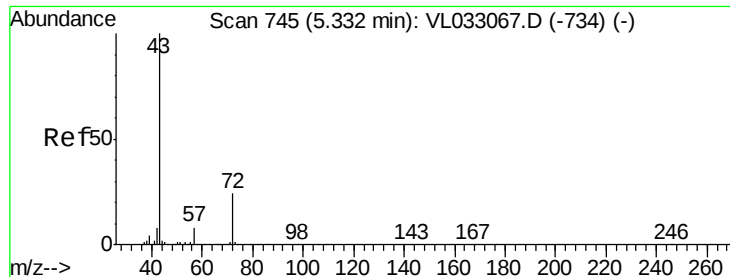


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

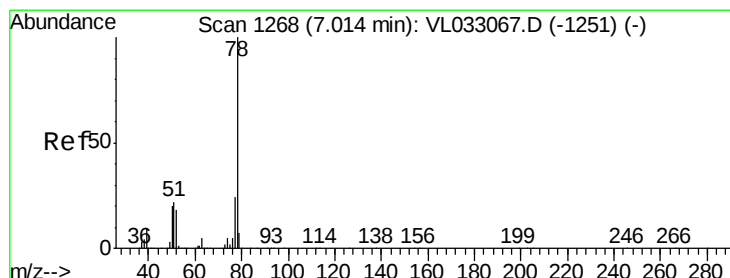
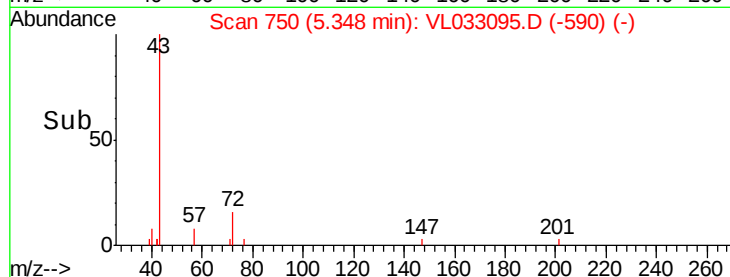
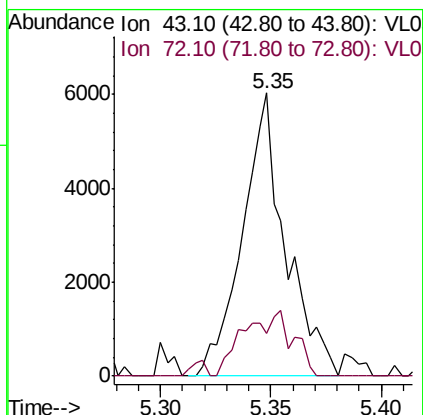
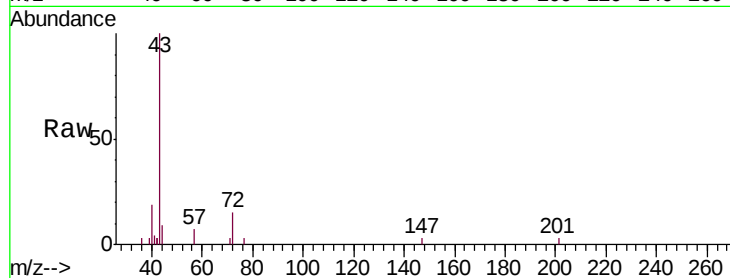




#34
 2-Butanone
 Concen: 0.060 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.02 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

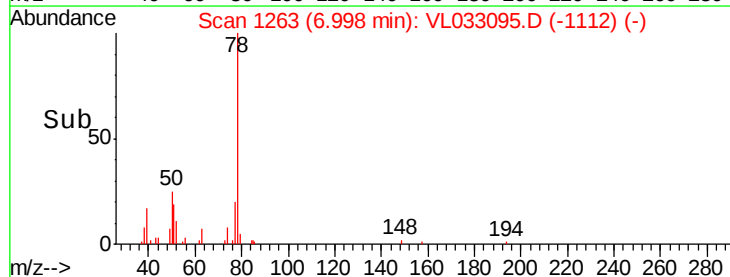
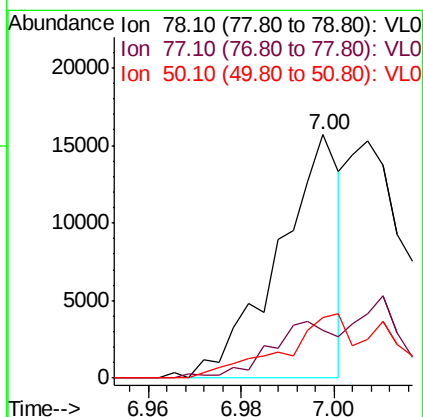
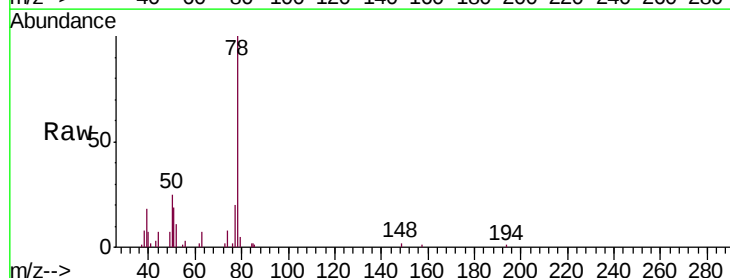
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1A

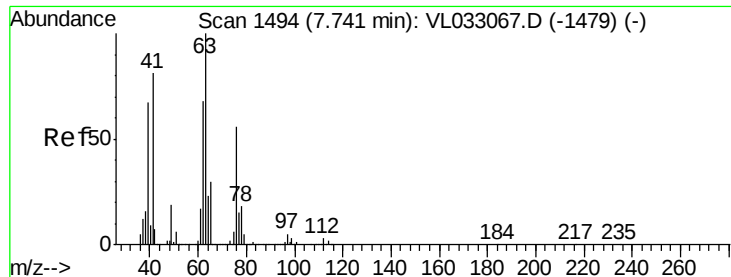
Tgt Ion: 43 Resp: 8229
 Ion Ratio Lower Upper
 43 100
 72 28.0 18.9 28.3



#36
 Benzene
 Concen: 0.074 ppbv
 RT: 7.00 min Scan# 1263
 Delta R.T. -0.01 min
 Lab File: VL033095.D
 Acq: 16 Jan 2019 17:01

Tgt Ion: 78 Resp: 14416
 Ion Ratio Lower Upper
 78 100
 77 17.7 18.5 27.7#
 50 24.9 15.7 23.5#





#39

1,2-Dichloropropane

Concen: 8.357 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033095.D

Acq: 16 Jan 2019 17:01

Instrument :

MSVOA_L

ClientSampleId :

QA1A

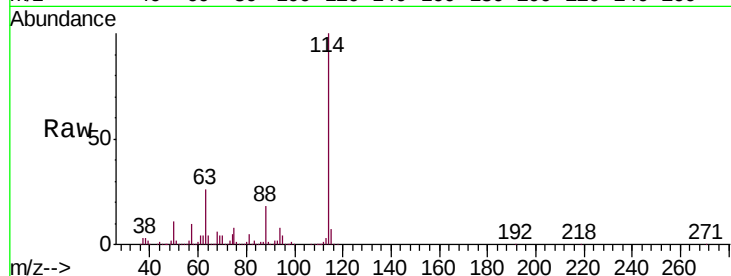
Tgt Ion: 63 Resp: 607807

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

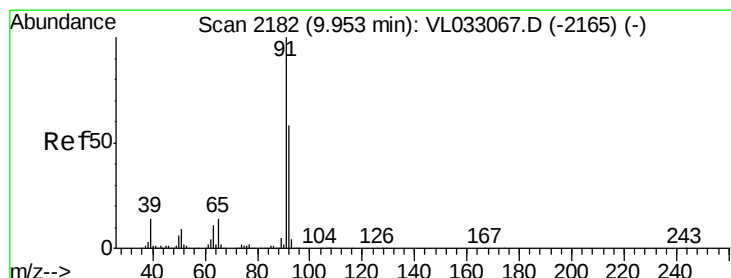
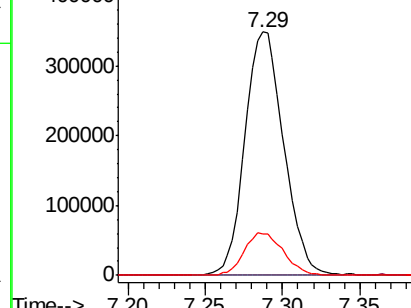
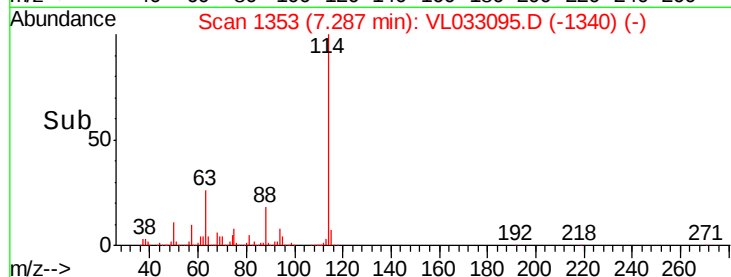
62 17.1 55.8 83.6#



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: 0.089 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033095.D

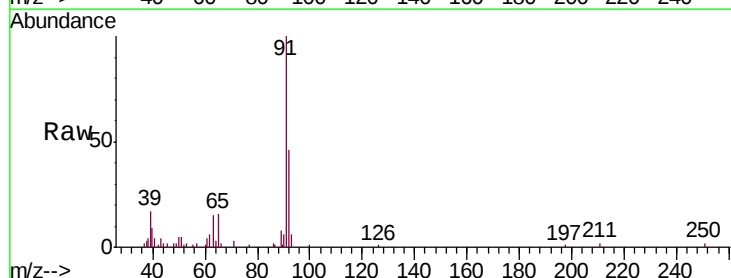
Acq: 16 Jan 2019 17:01

Tgt Ion: 91 Resp: 18459

Ion Ratio Lower Upper

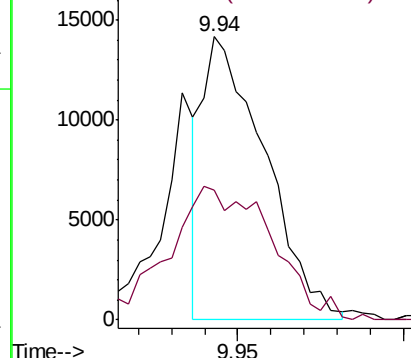
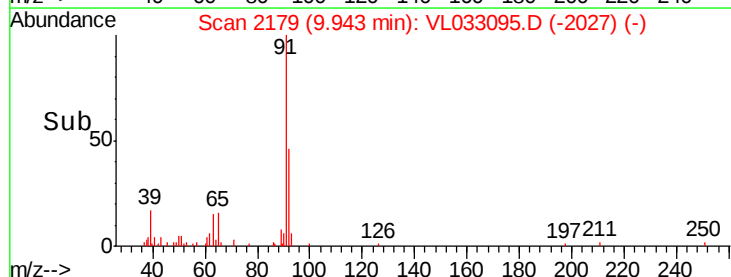
91 100

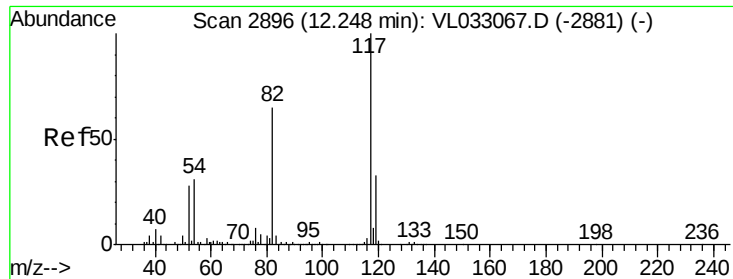
92 79.5 47.7 71.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

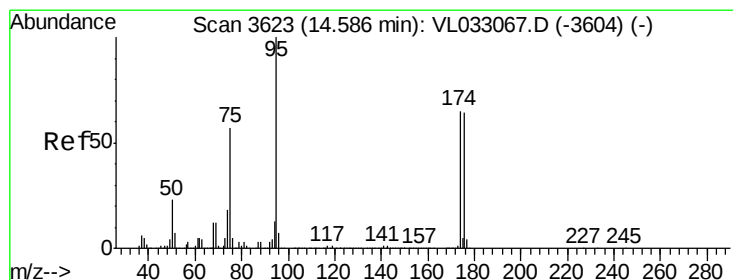
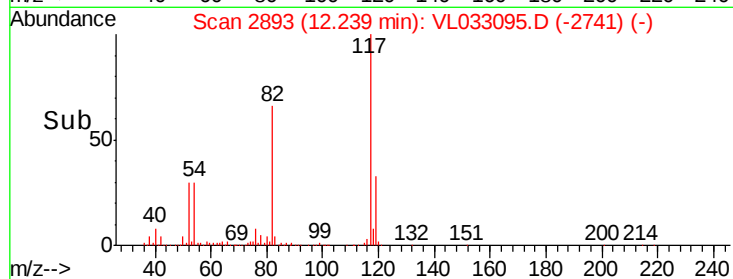
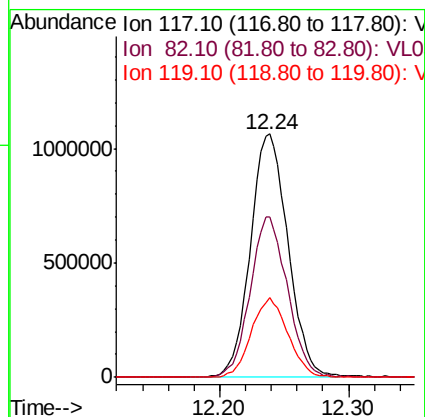
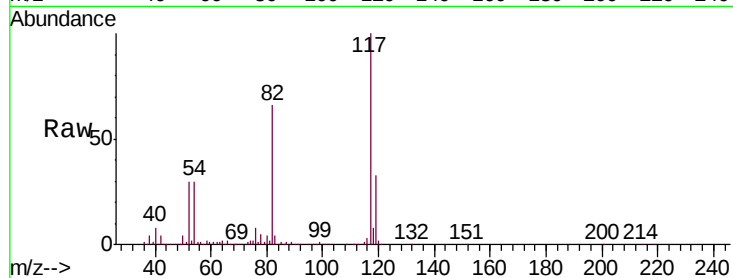




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Instrument :
MSVOA_L
ClientSampleId :
OA1A

Tgt Ion: 117 Resp: 2158707
Ion Ratio Lower Upper
117 100
82 65.9 48.9 73.3
119 32.3 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.354 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033095.D
Acq: 16 Jan 2019 17:01

Tgt Ion: 95 Resp: 1713413
Ion Ratio Lower Upper
95 100
174 64.1 51.9 77.9
175 4.7 3.9 5.9

