

Data File : VL032668.D
Acq On : 19 Oct 2018 4:23
Operator : SY/AP
Sample : J5578-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1DL

Quant Time: Oct 19 07:56:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1561109	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3761687	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3700674	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2774615	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

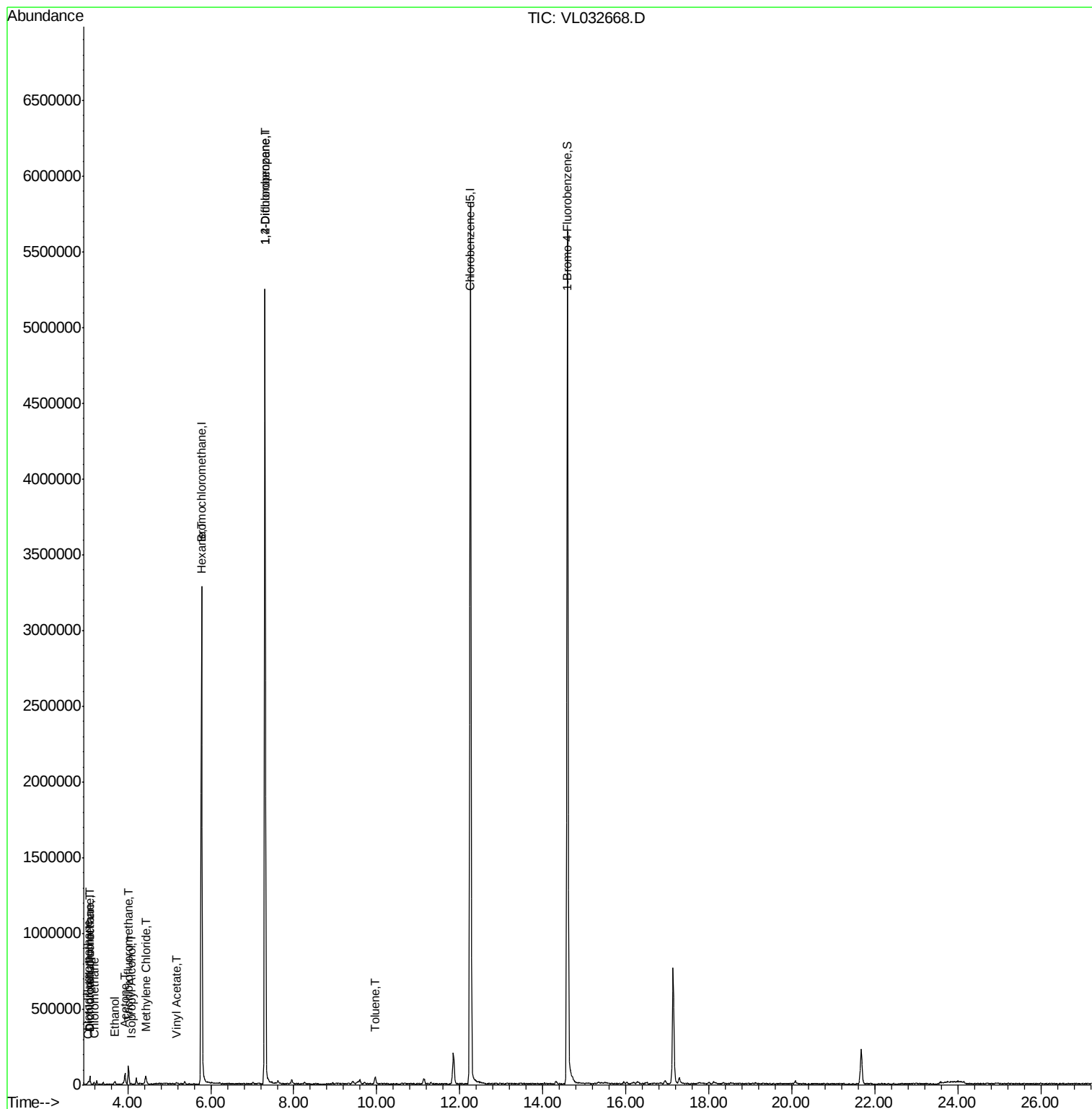
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	37863	0.238	ppbv #	85
3) Chlorodifluoromethane	3.03	51	5630	0.046	ppbv	96
4) Chloromethane	3.18	50	8831	0.129	ppbv	96
8) Dichlorotetrafluoroethane	3.09	85	37863	0.226	ppbv #	21
11) Trichlorofluoromethane	4.02	101	77210	0.372	ppbv	91
13) Ethanol	3.68	45	15616	1.087	ppbv	87
15) Acetone	3.93	43	67269	0.467	ppbv	99
19) Isopropyl Alcohol	4.07	45	2392	0.023	ppbv #	93
20) Methylene Chloride	4.42	84	14995	0.205	ppbv #	92
23) Vinyl Acetate	5.17	43	5903	0.023	ppbv #	62
26) Hexane	5.79	57	4060	0.026	ppbv #	1
39) 1,2-Dichloropropane	7.31	63	949601	8.050	ppbv #	26
53) Toluene	9.96	91	19085	0.055	ppbv #	49

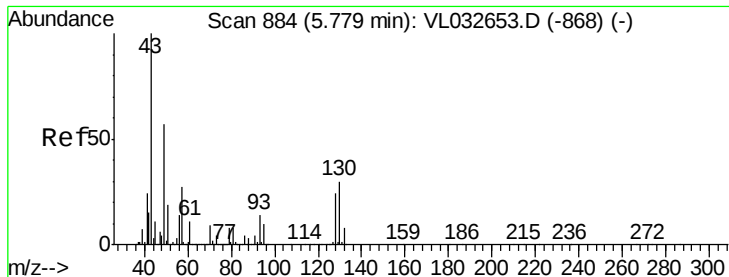
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 19 07:56:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 01:25:37 2018
QLast Update : Fri Oct 19 01:25:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

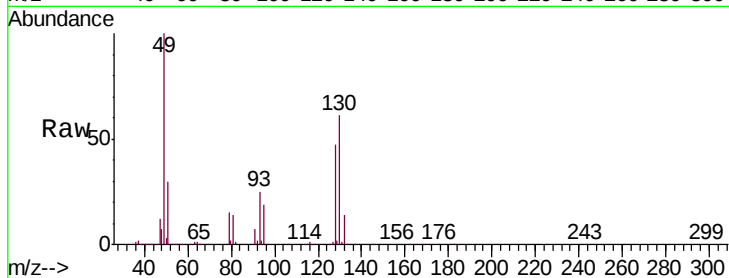
Tgt Ion: 49 Resp: 1561109

Ion Ratio Lower Upper

49 100

128 48.4 22.3 66.8

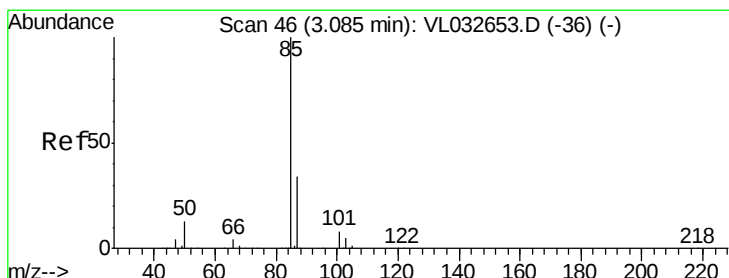
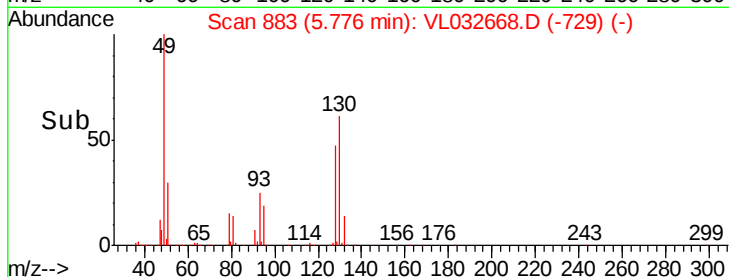
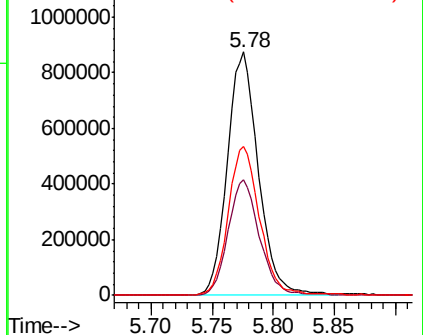
130 62.3 28.4 85.3



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: 0.238 ppbv

RT: 3.09 min Scan# 48

Delta R.T. 0.01 min

Lab File: VL032668.D

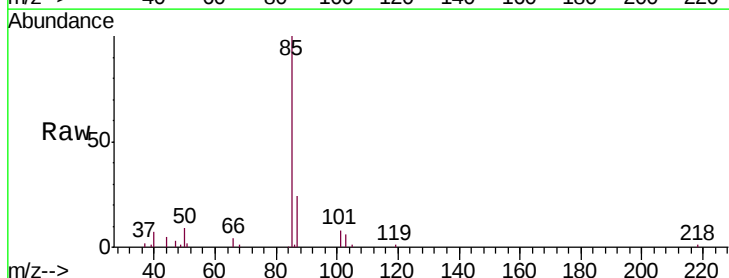
Acq: 19 Oct 2018 4:23

Tgt Ion: 85 Resp: 37863

Ion Ratio Lower Upper

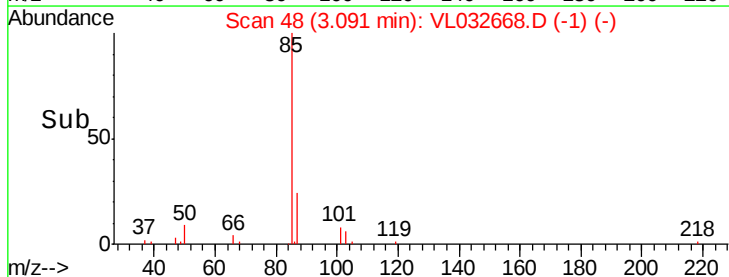
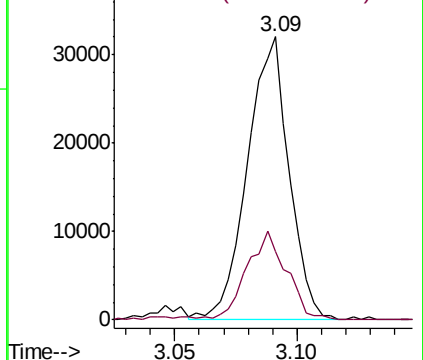
85 100

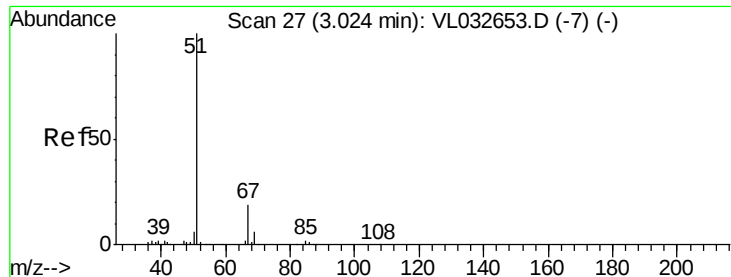
87 24.0 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

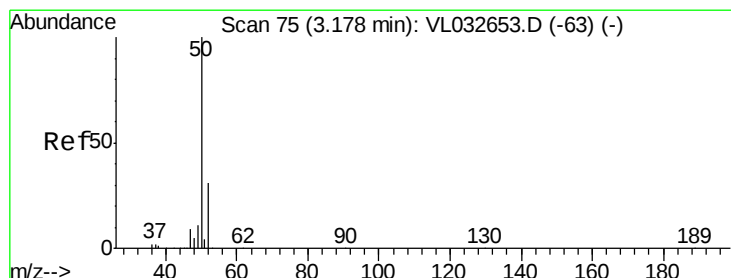
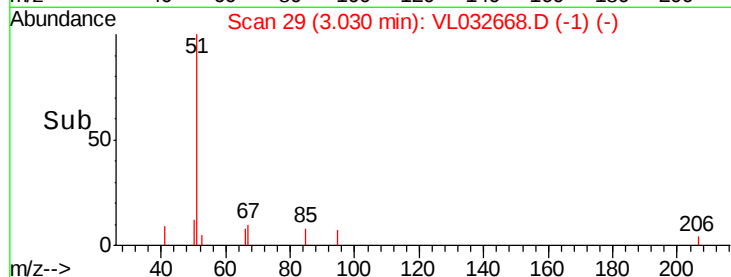
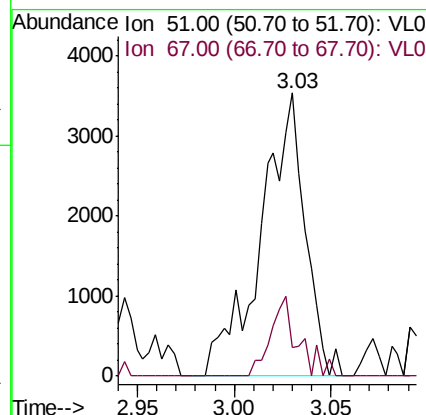
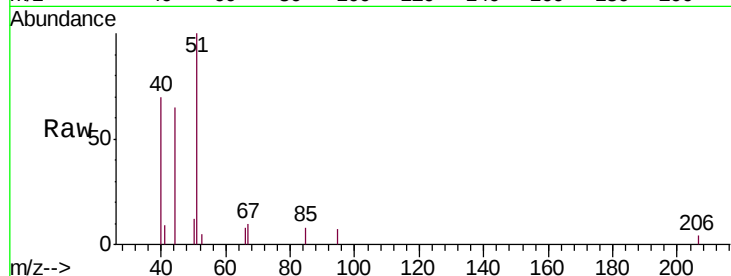




#3
 Chlorodifluoromethane
 Concen: 0.046 ppbv
 RT: 3.03 min Scan# 29
 Delta R.T. 0.01 min
 Lab File: VL032668.D
 Acq: 19 Oct 2018 4:23

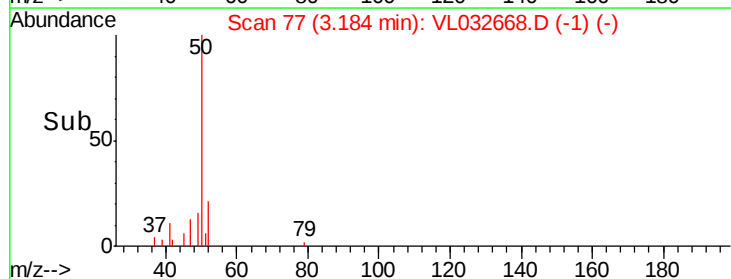
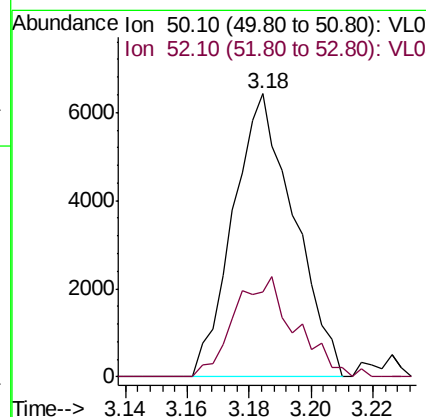
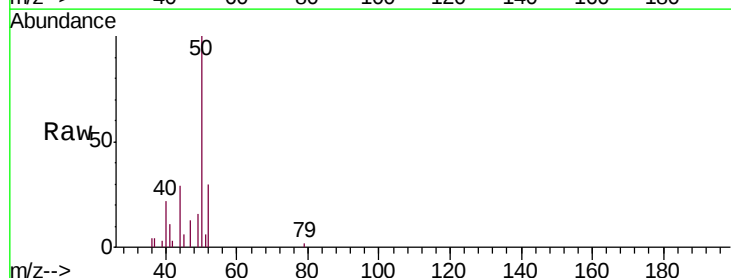
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

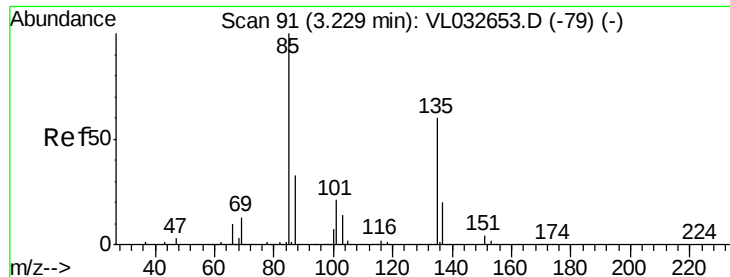
Tgt Ion: 51 Resp: 5630
 Ion Ratio Lower Upper
 51 100
 67 17.4 15.2 22.8



#4
 Chloromethane
 Concen: 0.129 ppbv
 RT: 3.18 min Scan# 77
 Delta R.T. 0.01 min
 Lab File: VL032668.D
 Acq: 19 Oct 2018 4:23

Tgt Ion: 50 Resp: 8831
 Ion Ratio Lower Upper
 50 100
 52 29.9 25.9 38.9





#8

Dichlorotetrafluoroethane

Concen: 0.226 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.14 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

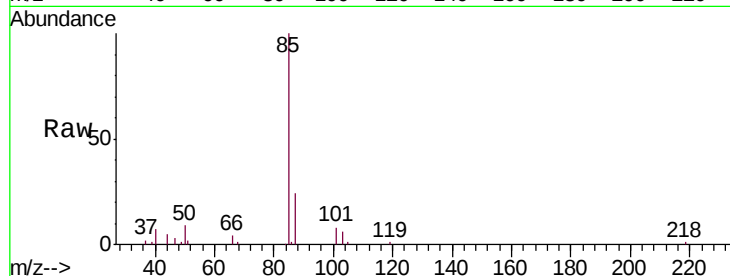
IA-1DL

Tgt Ion: 85 Resp: 37863

Ion Ratio Lower Upper

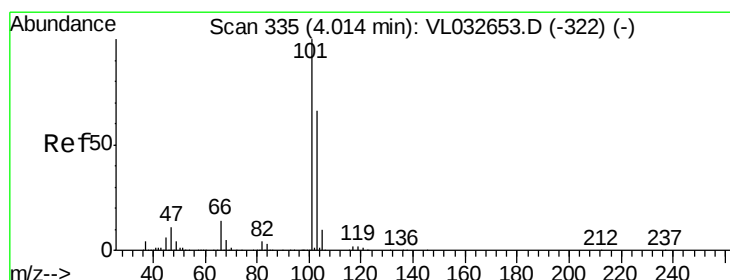
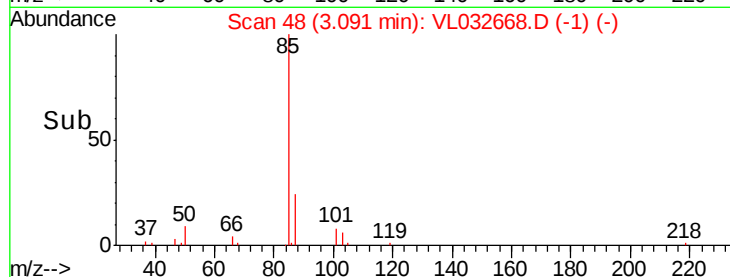
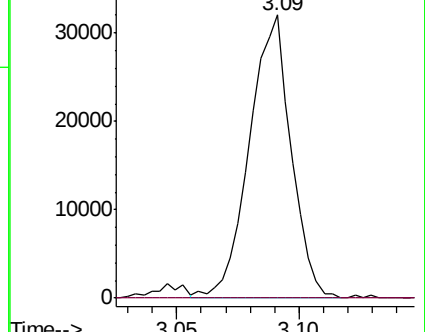
85 100

135 0.5 49.0 73.4#



Abundance Ion 85.00 (84.70 to 85.70): VL032668.D (-1) (-)

Ion 135.00 (134.70 to 135.70): VL032668.D (-1) (-)



#11

Trichlorofluoromethane

Concen: 0.372 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL032668.D

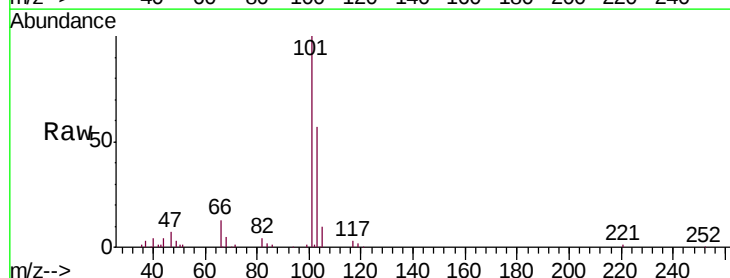
Acq: 19 Oct 2018 4:23

Tgt Ion: 101 Resp: 77210

Ion Ratio Lower Upper

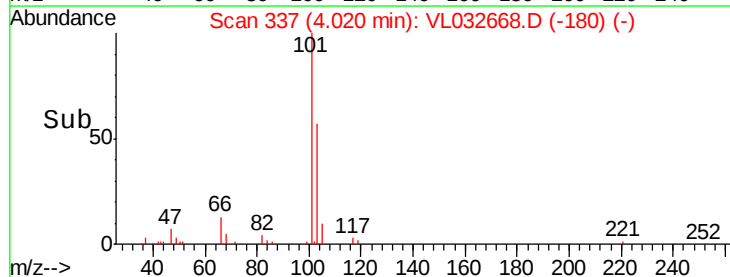
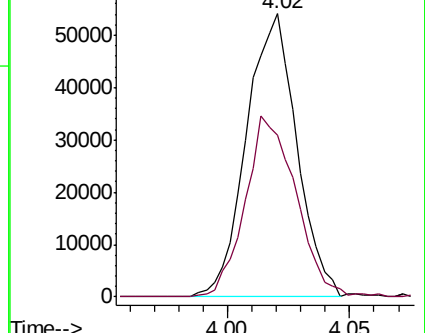
101 100

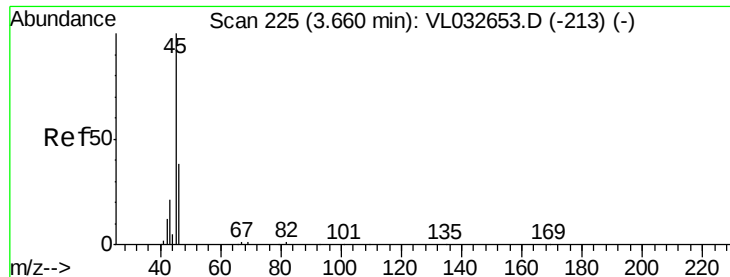
103 57.3 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VL032668.D (-180) (-)

Ion 103.00 (102.70 to 103.70): VL032668.D (-180) (-)





#13

Ethanol

Concen: 1.087 ppbv

RT: 3.68 min Scan# 231

Delta R.T. 0.02 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

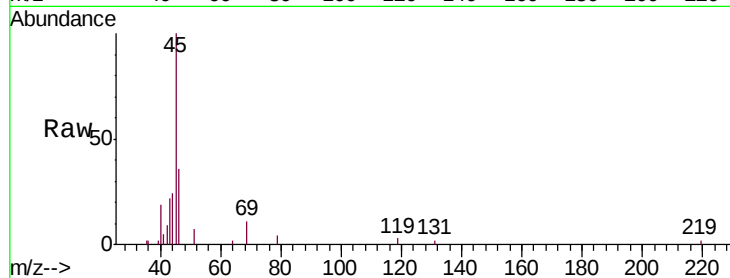
IA-1DL

Tgt Ion: 45 Resp: 15616

Ion Ratio Lower Upper

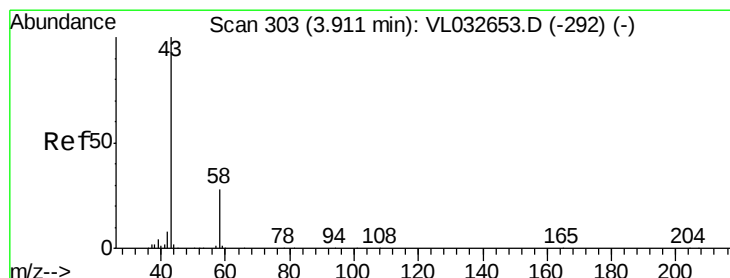
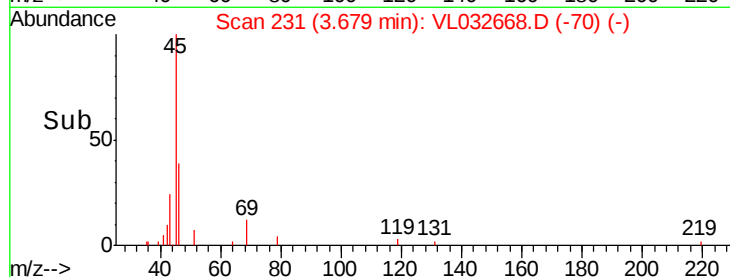
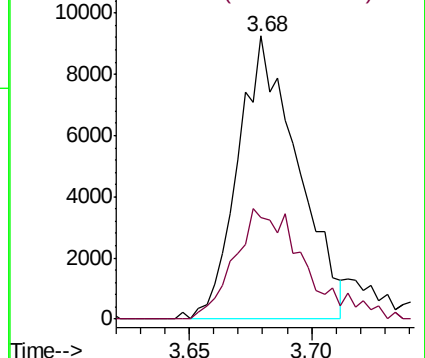
45 100

46 46.3 15.4 61.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.467 ppbv

RT: 3.93 min Scan# 309

Delta R.T. 0.02 min

Lab File: VL032668.D

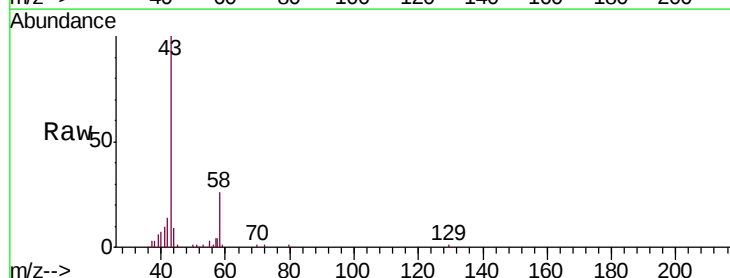
Acq: 19 Oct 2018 4:23

Tgt Ion: 43 Resp: 67269

Ion Ratio Lower Upper

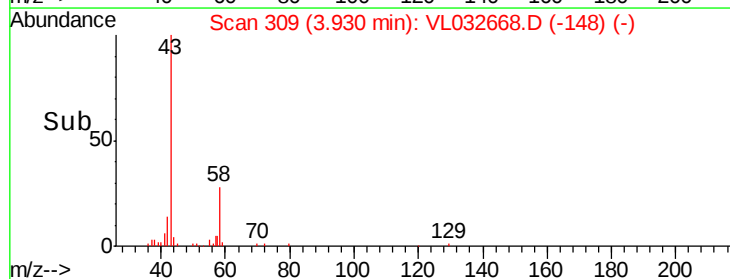
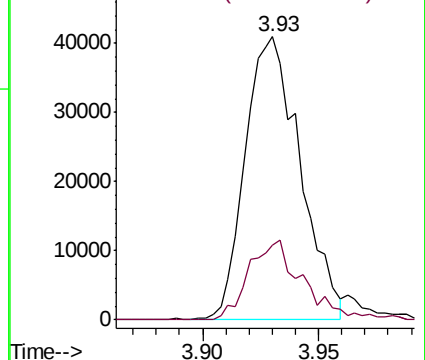
43 100

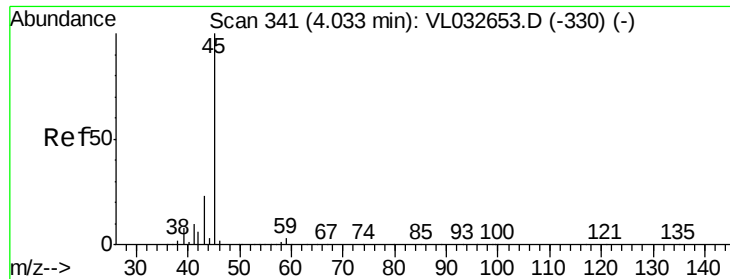
58 28.3 22.1 33.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#19

Isopropyl Alcohol

Concen: 0.023 ppbv

RT: 4.07 min Scan# 352

Delta R.T. 0.04 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

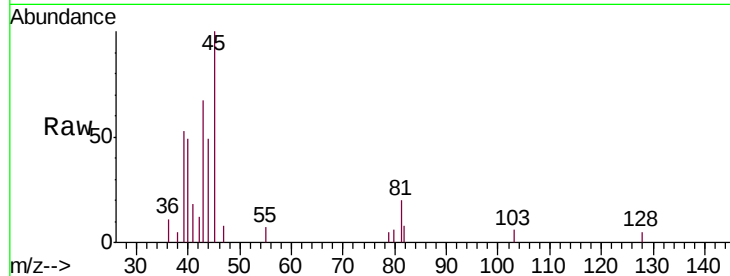
IA-1DL

Tgt Ion: 45 Resp: 2392

Ion Ratio Lower Upper

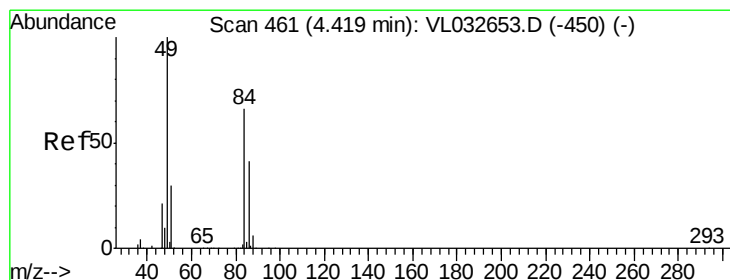
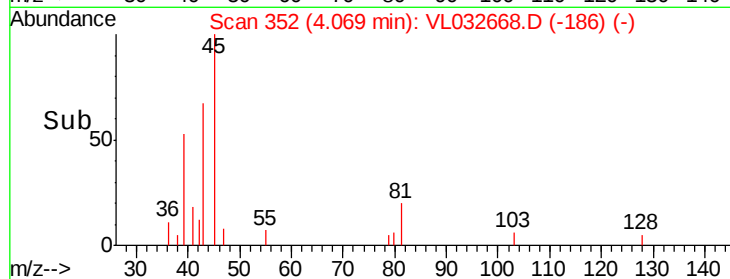
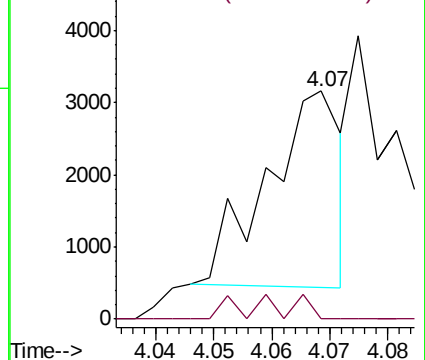
45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.205 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Tgt Ion: 84 Resp: 14995

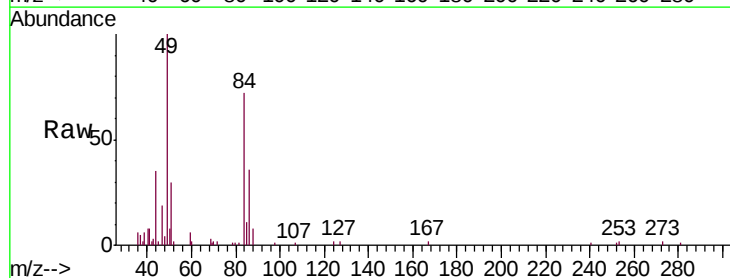
Ion Ratio Lower Upper

84 100

49 134.3 113.5 170.3

51 41.5 34.8 52.2

86 47.4 47.9 71.9#

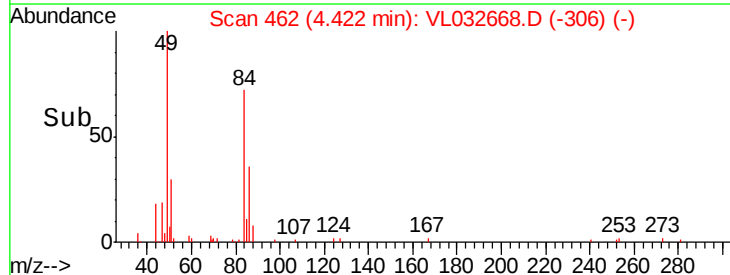
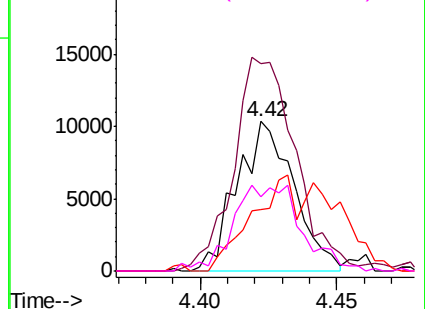


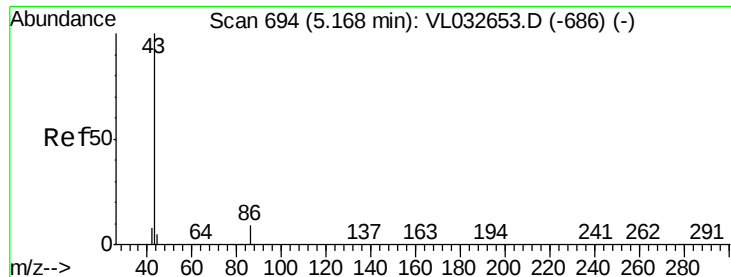
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.023 ppbv

RT: 5.17 min Scan# 695

Delta R.T. 0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

Tgt Ion: 43 Resp: 5903

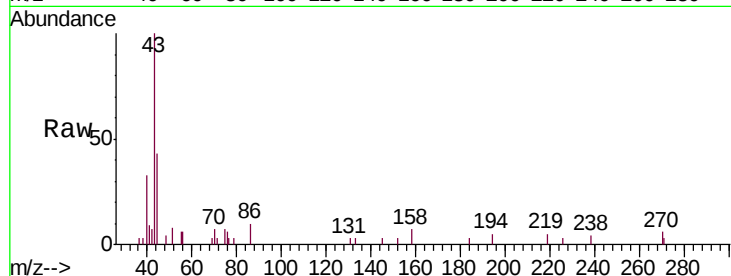
Ion Ratio Lower Upper

43 100

86 15.1 6.1 9.1#

42 0.3 7.4 11.2#

44 33.3 4.2 6.2#

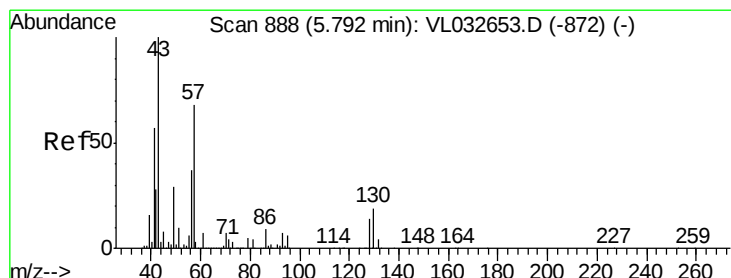
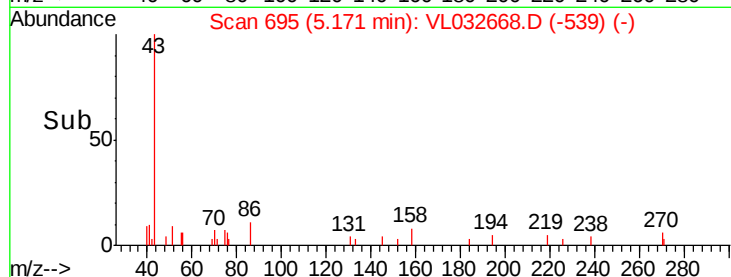
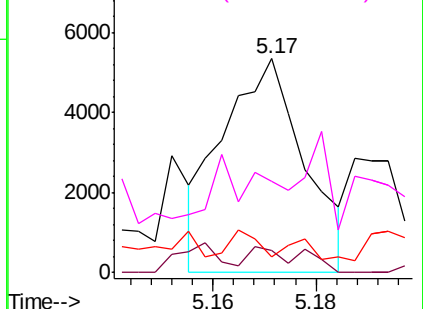


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#26

Hexane

Concen: 0.026 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Tgt Ion: 57 Resp: 4060

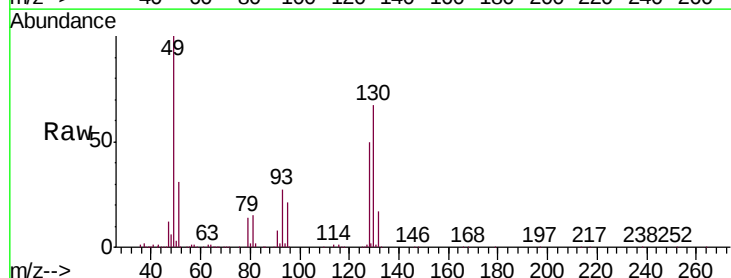
Ion Ratio Lower Upper

57 100

41 0.0 67.4 101.0#

43 372.7 171.9 257.9#

56 136.3 42.6 63.8#

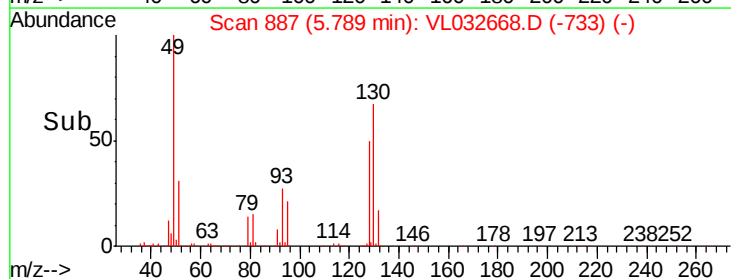
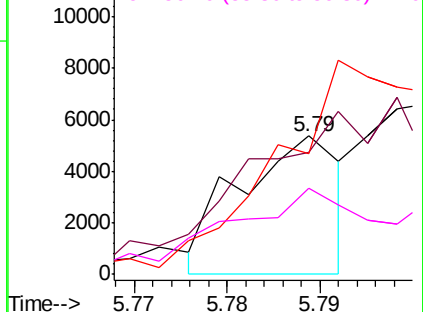


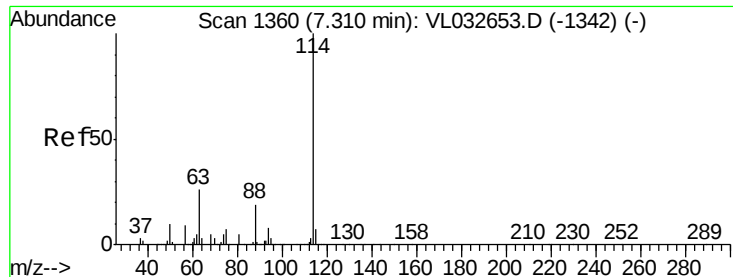
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

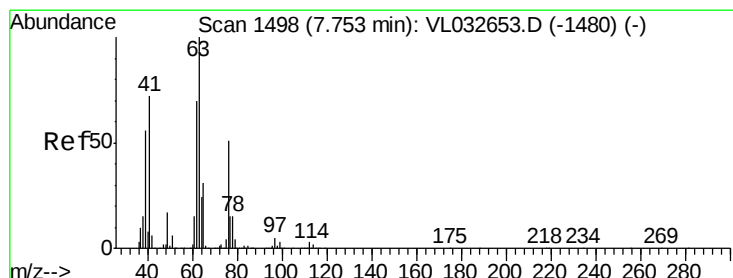
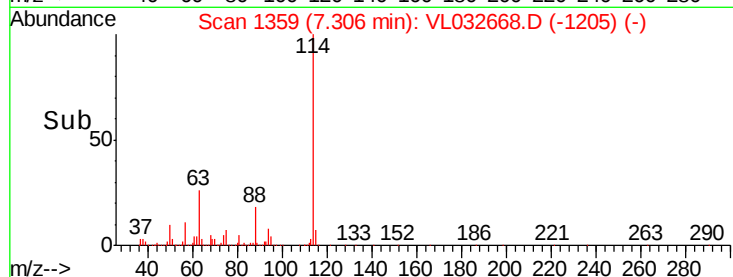
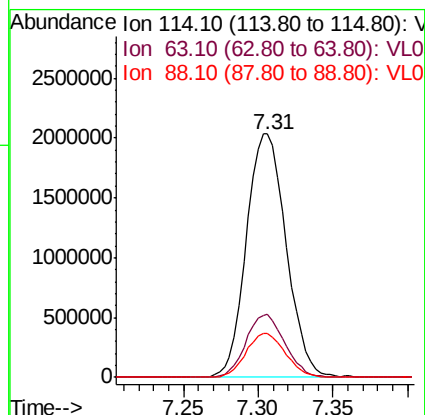
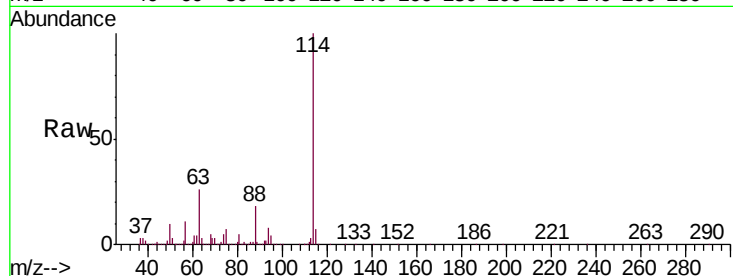




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032668.D
 Acq: 19 Oct 2018 4:23

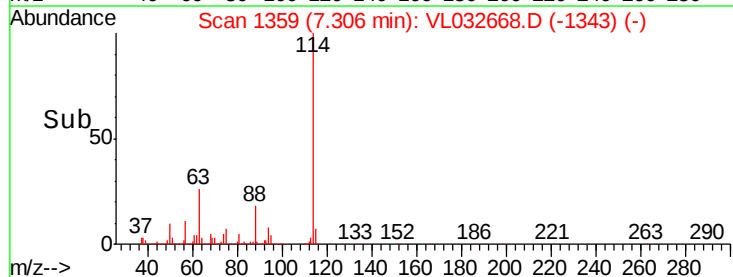
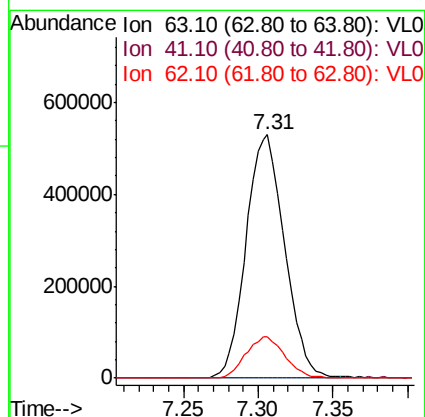
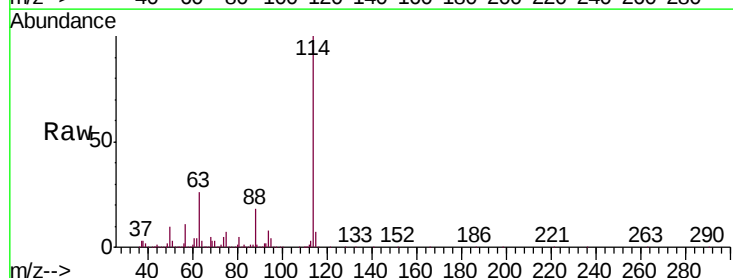
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

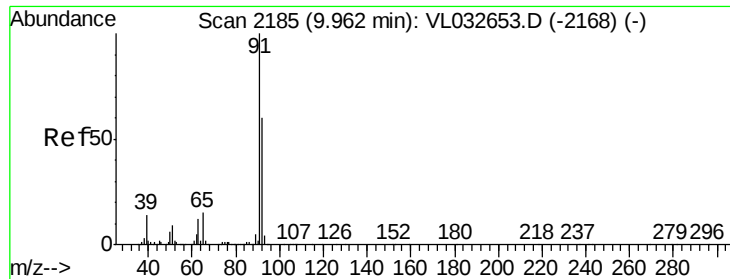
Tgt Ion:114 Resp: 3761687
 Ion Ratio Lower Upper
 114 100
 63 25.5 21.7 32.5
 88 17.9 14.9 22.3



#39
 1,2-Dichloropropane
 Concen: 8.050 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.45 min
 Lab File: VL032668.D
 Acq: 19 Oct 2018 4:23

Tgt Ion: 63 Resp: 949601
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.2 84.4#
 62 17.1 54.4 81.6#





#53

Toluene

Concen: 0.055 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

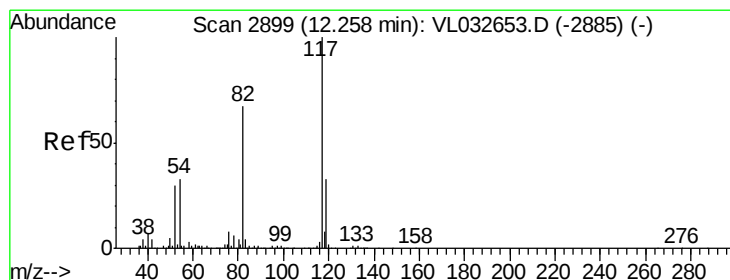
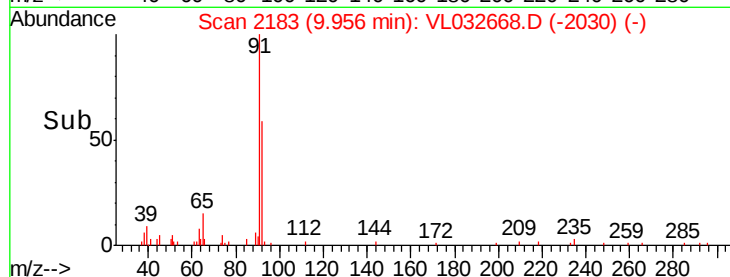
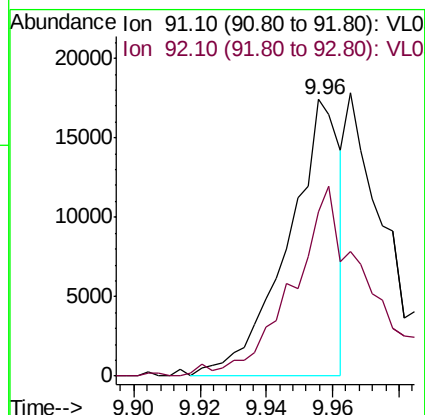
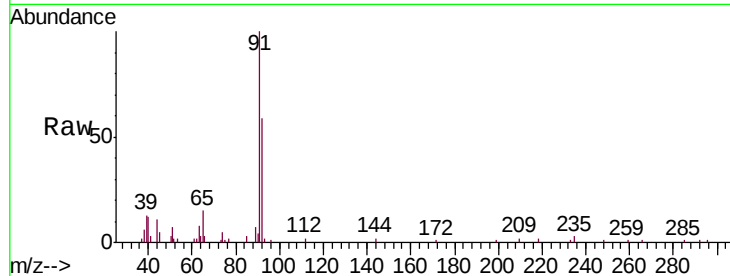
IA-1DL

Tgt Ion: 91 Resp: 19085

Ion Ratio Lower Upper

91 100

92 99.5 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

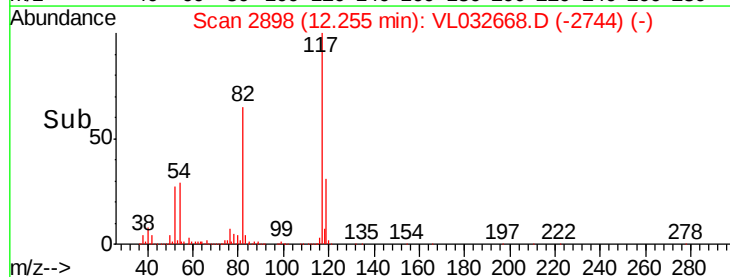
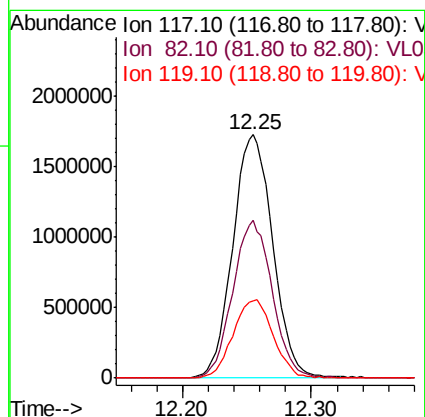
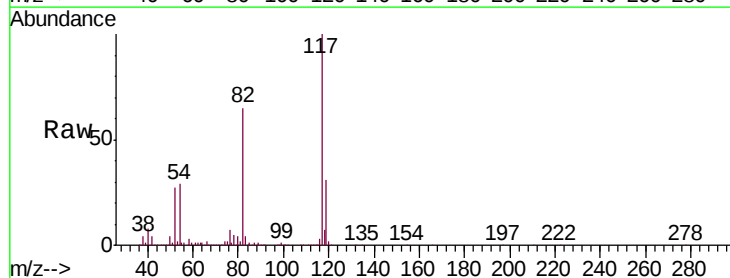
Tgt Ion: 117 Resp: 3700674

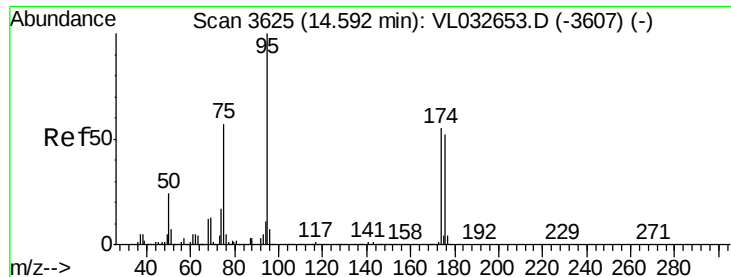
Ion Ratio Lower Upper

117 100

82 64.6 52.7 79.1

119 32.8 26.7 40.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.070 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032668.D

Acq: 19 Oct 2018 4:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1DL

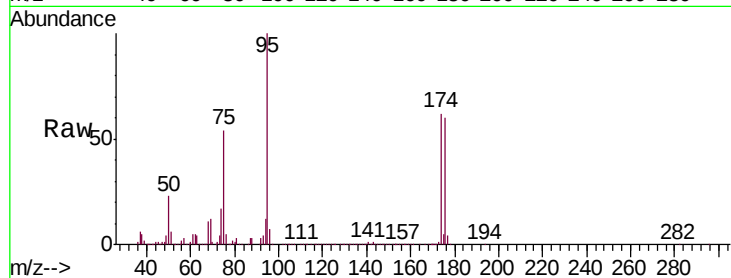
Tgt Ion: 95 Resp: 2774615

Ion Ratio Lower Upper

95 100

174 63.6 46.0 69.0

175 4.7 3.4 5.0



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

