

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033204.D
 Acq On : 14 Feb 2019 18:57
 Operator : SY/AP
 Sample : K1483-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-CDL

Quant Time: Feb 15 15:17:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

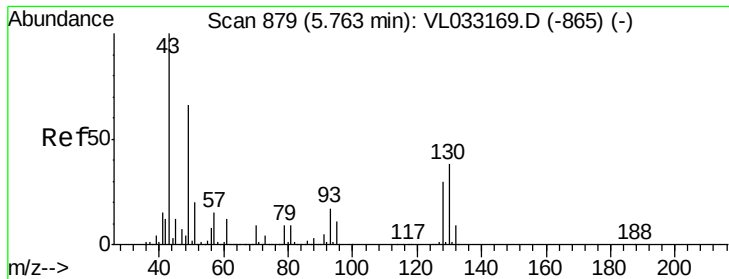
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	971288	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2178689	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2201873	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1783289	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1,2-Trichlorotrifluoroet	4.55	101	12740m	0.122	ppbv	
13) Ethanol	3.66	45	11907m	0.632	ppbv	
15) Acetone	3.91	43	82725	0.756	ppbv	# 87
18) 1,1-Dichloroethene	4.35	96	4993m	0.107	ppbv	
19) Isopropyl Alcohol	4.04	45	115271m	1.553	ppbv	
24) 1,1-Dichloroethane	5.08	63	378899	2.825	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	613900	3.150	ppbv	97
59) m/p-Xylene	13.12	91	53879m	0.181	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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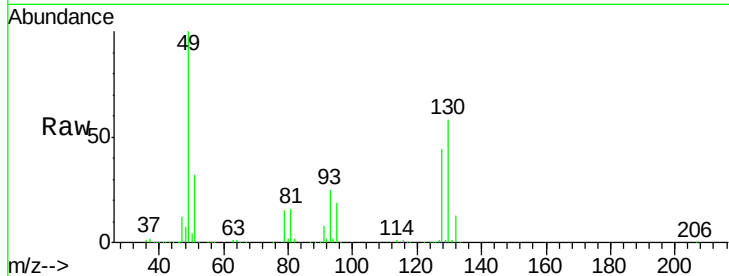
Tot Ion: 49 Resp: 971288

Ion Ratio Lower Upper

49 100

128 45.5 23.6 71.0

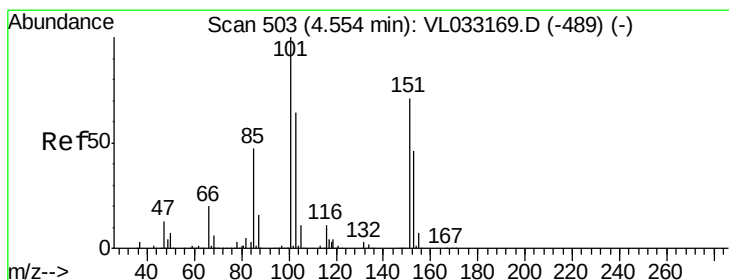
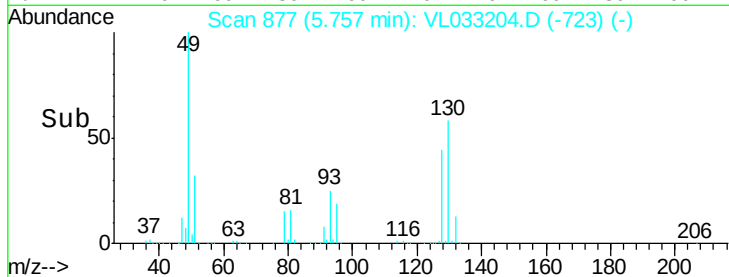
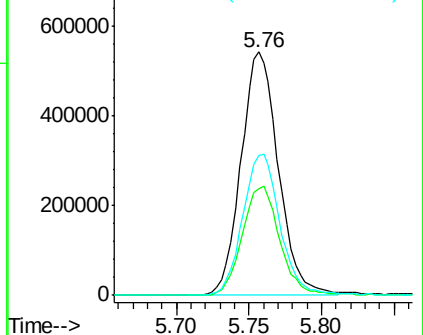
130 58.7 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.122 ppbv m

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033204.D

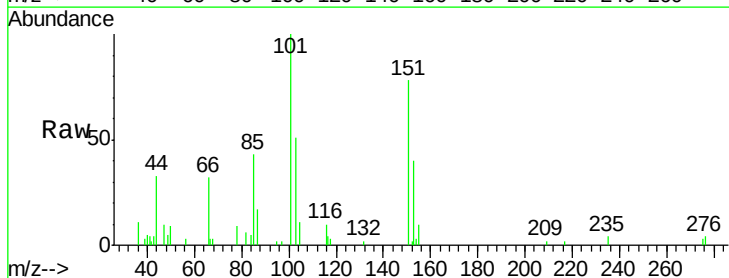
Acq: 14 Feb 2019 18:57

Tgt Ion:101 Resp: 12740

Ion Ratio Lower Upper

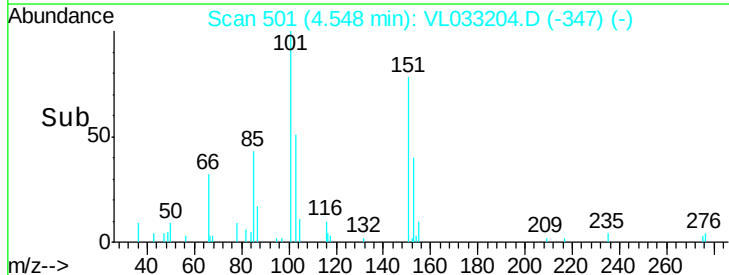
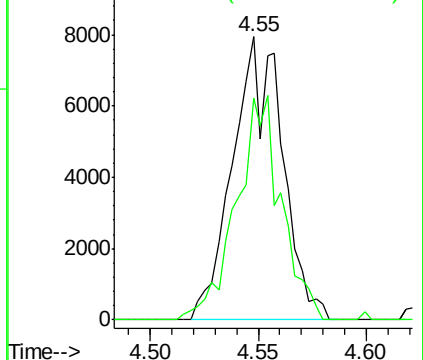
101 100

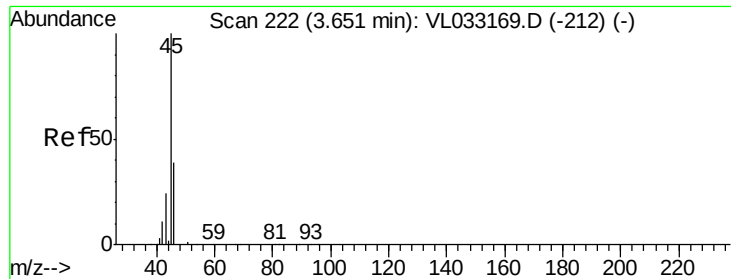
151 0.0 57.4 86.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.632 ppbv m

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Instrument :

MSVOA_L

ClientSampleId :

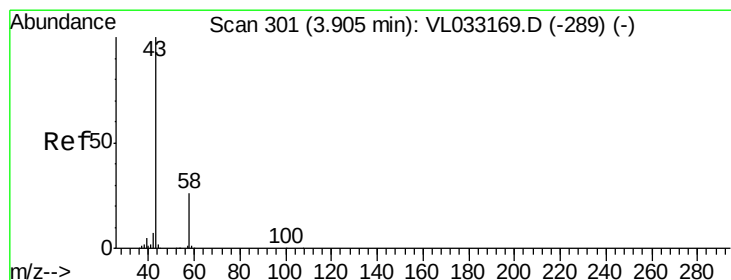
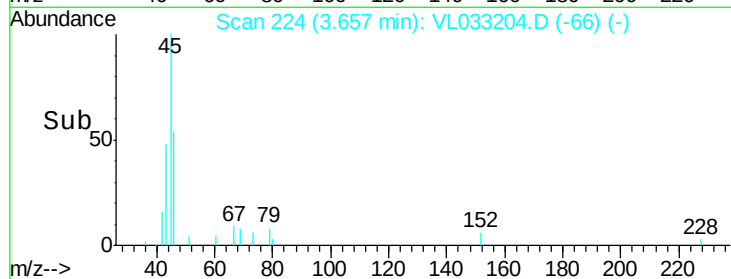
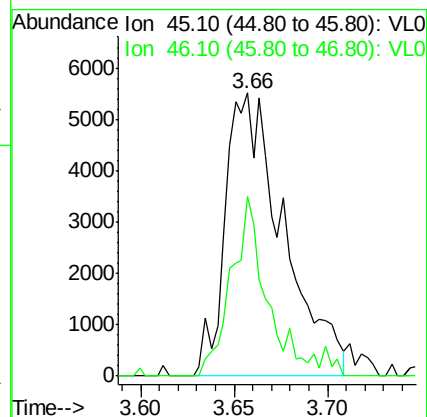
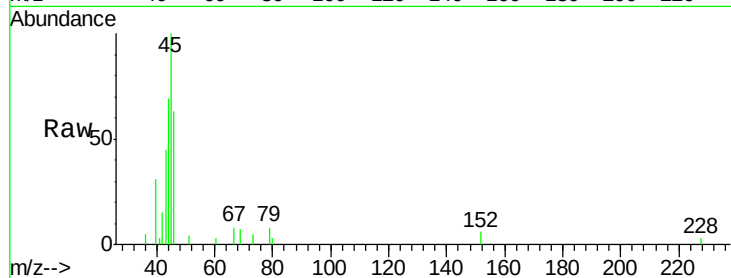
ZONE-CDL

Tot Ion: 45 Resp: 11907

Ion Ratio Lower Upper

45 100

46 40.6 15.0 60.2



#15

Acetone

Concen: 0.756 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033204.D

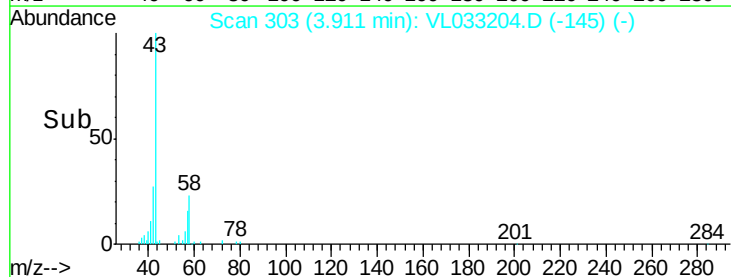
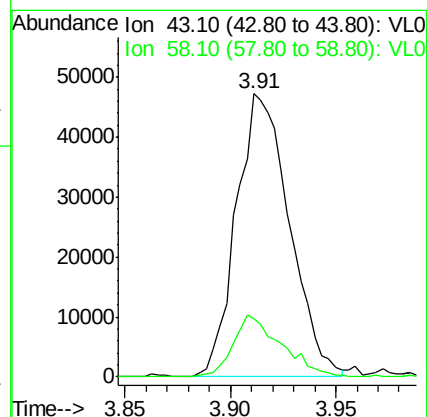
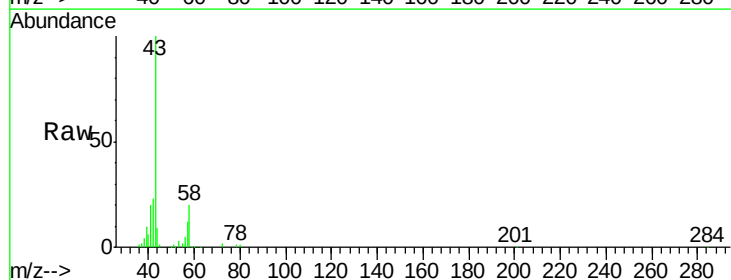
Acq: 14 Feb 2019 18:57

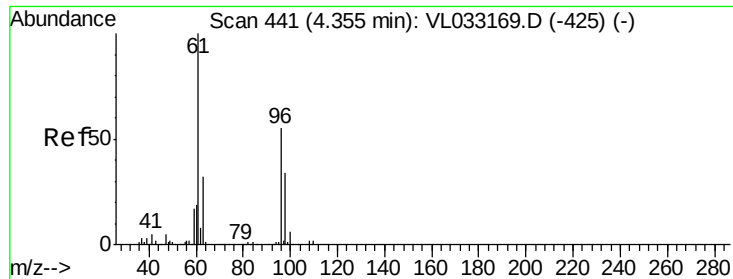
Tgt Ion: 43 Resp: 82725

Ion Ratio Lower Upper

43 100

58 20.0 21.1 31.7#





#18

1,1-Dichloroethene

Concen: 0.107 ppbv m

RT: 4.35 min Scan# 438

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Instrument :

MSVOA_L

ClientSampleId :

ZONE-CDL

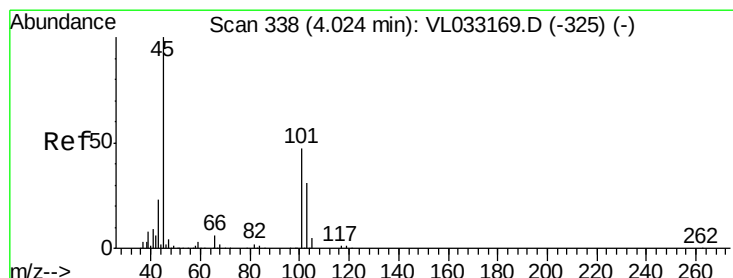
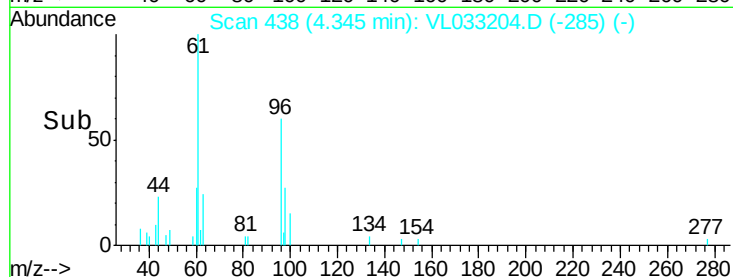
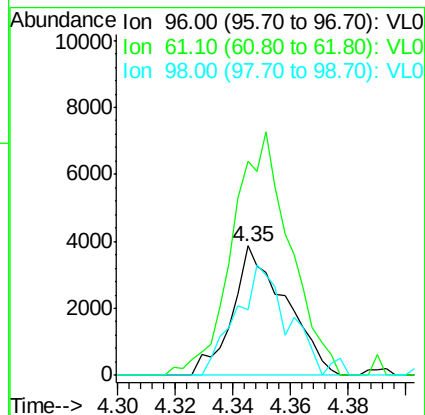
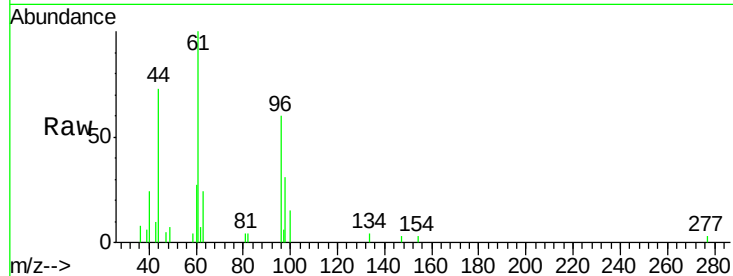
Tot Ion: 96 Resp: 4993

Ion Ratio Lower Upper

96 100

61 165.9 145.0 217.6

98 51.2 50.0 75.0



#19

Isopropyl Alcohol

Concen: 1.553 ppbv m

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033204.D

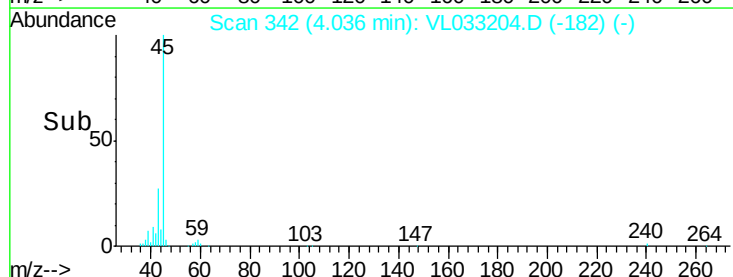
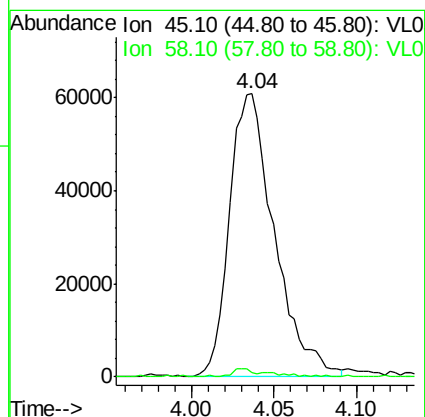
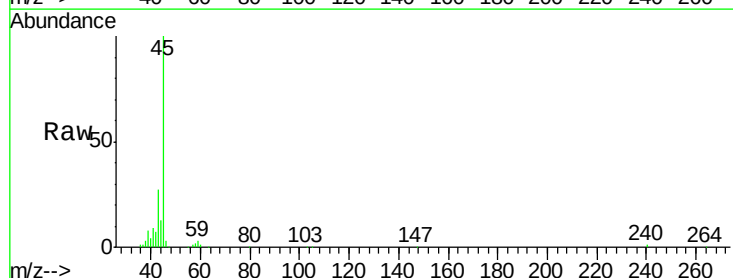
Acq: 14 Feb 2019 18:57

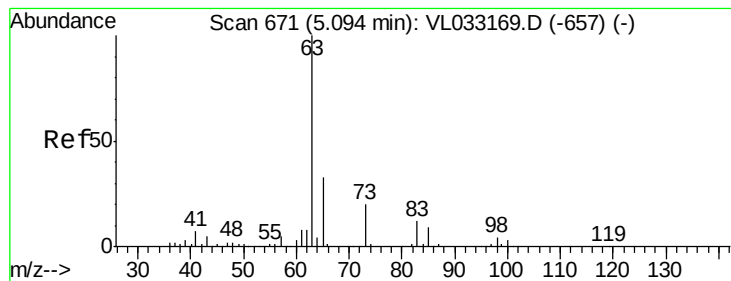
Tgt Ion: 45 Resp: 115271

Ion Ratio Lower Upper

45 100

58 2.6 1.5 2.3#





#24

1,1-Dichloroethane

Concen: 2.825 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Instrument :

MSVOA_L

ClientSampleId :

ZONE-CDL

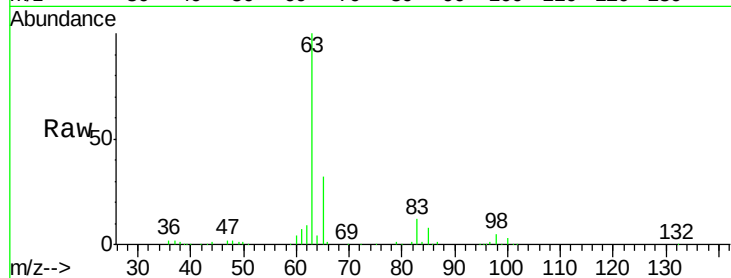
Tot Ion: 63 Resp: 378899

Ion Ratio Lower Upper

63 100

98 4.6 2.1 6.5

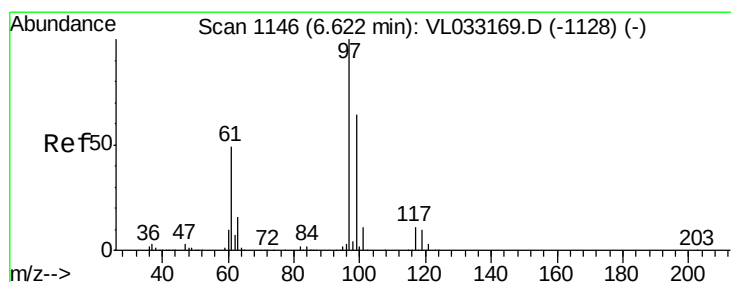
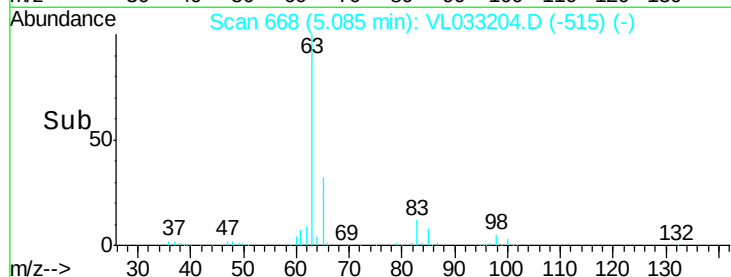
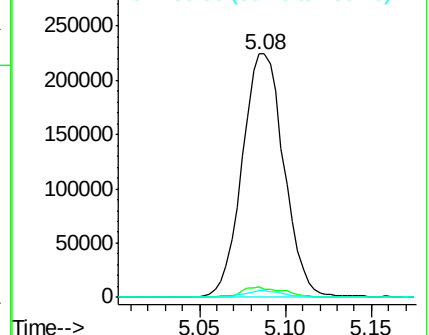
100 2.7 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#32

1,1,1-Trichloroethane

Concen: 3.150 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

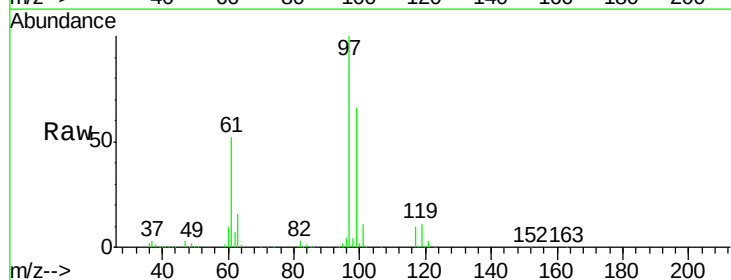
Tgt Ion: 97 Resp: 613900

Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.2

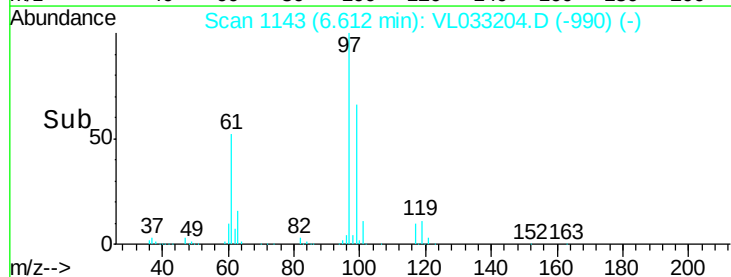
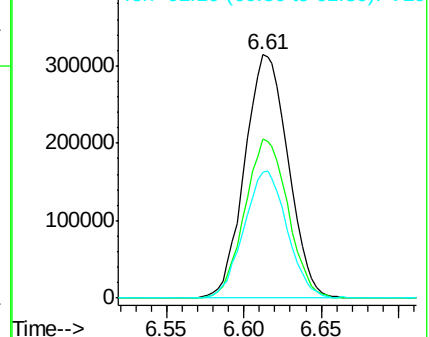
61 52.0 38.9 58.3

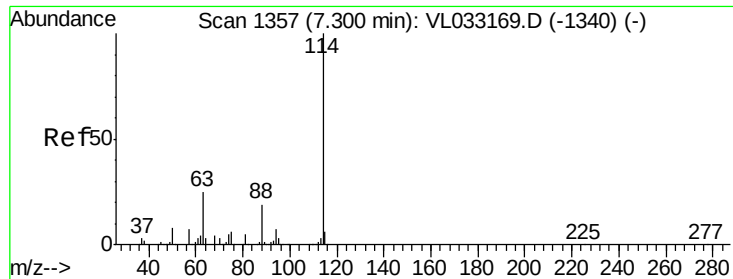


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

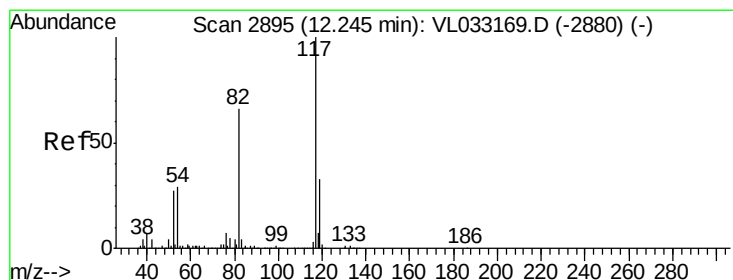
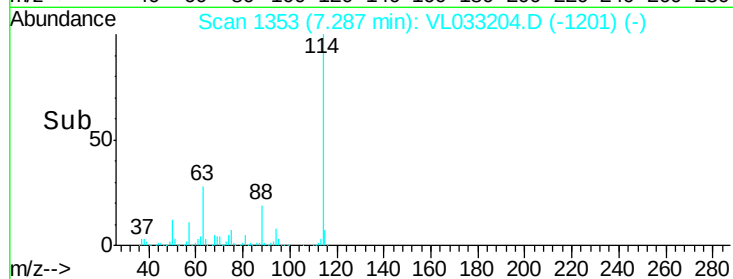
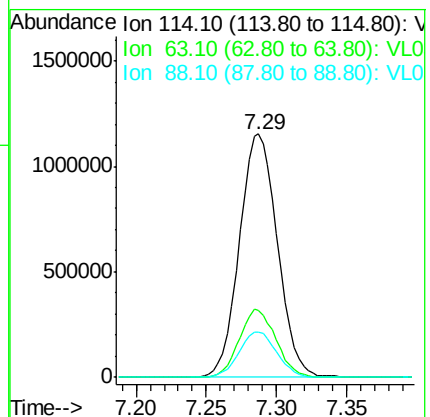
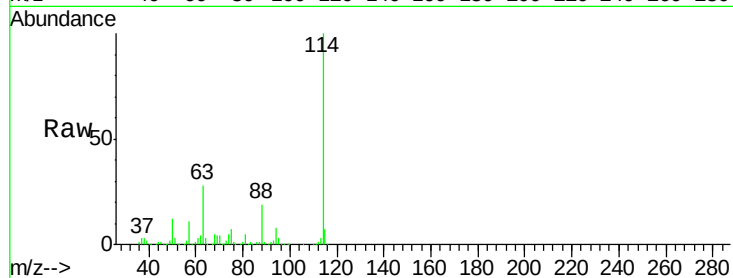




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

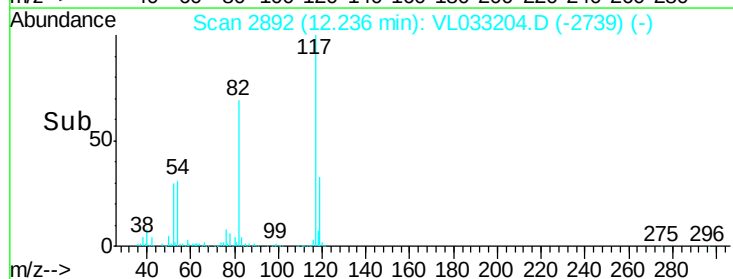
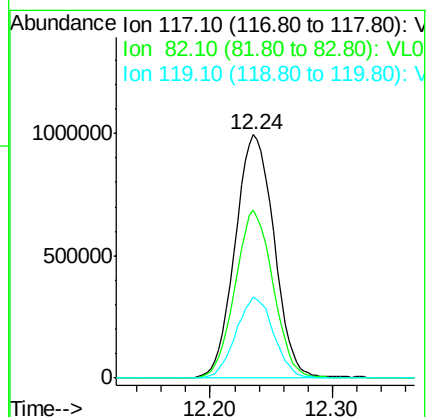
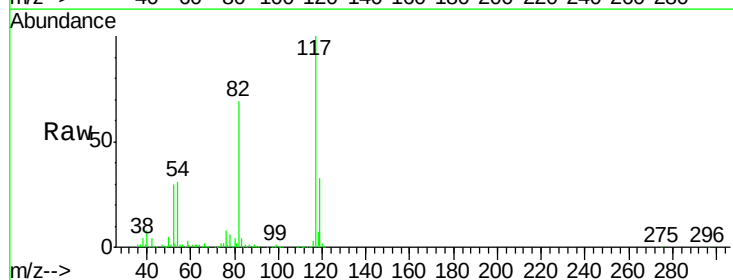
Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-CDL

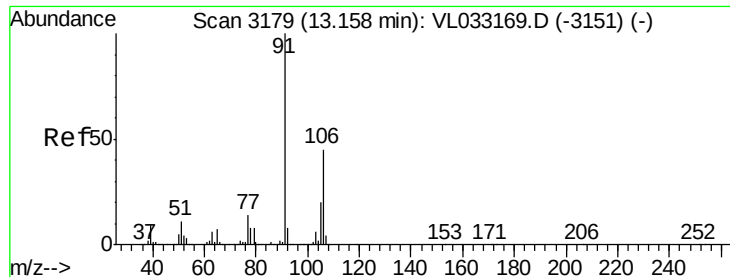
Tot Ion:114 Resp: 2178689
 Ion Ratio Lower Upper
 114 100
 63 27.2 20.8 31.2
 88 18.7 14.6 22.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.24 min Scan# 2892
 Delta R.T. -0.01 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

Tgt Ion:117 Resp: 2201873
 Ion Ratio Lower Upper
 117 100
 82 67.6 49.5 74.3
 119 32.6 24.4 36.6





#59

m/p-Xylene

Concen: 0.181 ppbv m

RT: 13.12 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Instrument :

MSVOA_L

ClientSampleId :

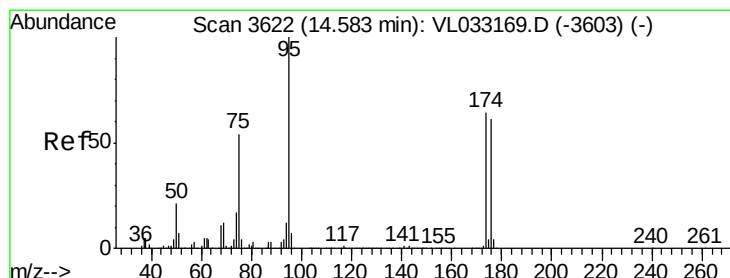
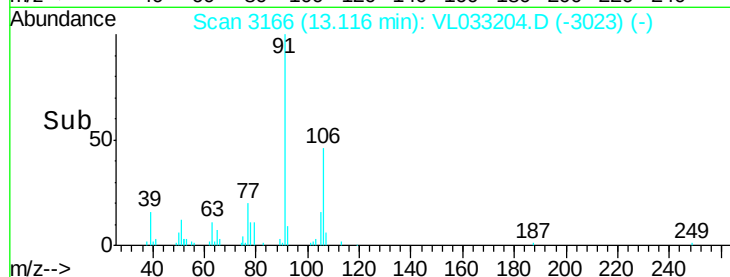
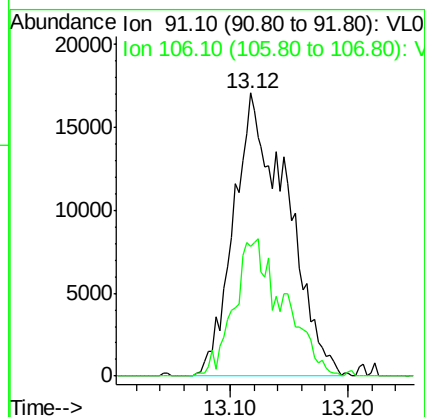
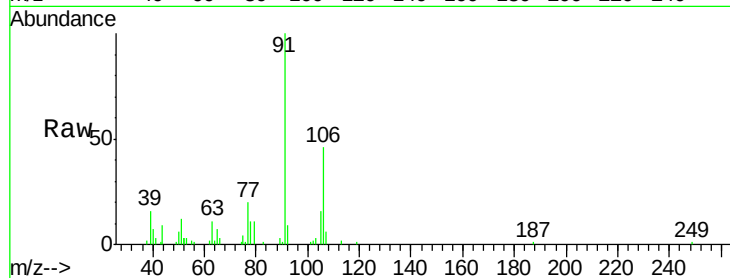
ZONE-CDL

Tot Ion: 91 Resp: 53879

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.516 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Tgt Ion: 95 Resp: 1783289

Ion Ratio Lower Upper

95 100

174 63.3 51.2 76.8

175 4.6 3.8 5.6

