

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030619\
 Data File : VL033251.D
 Acq On : 6 Mar 2019 11:04
 Operator : SY/AP
 Sample : 0.4 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 04:37:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019
 QLast Update : Wed Mar 06 08:43:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	873666	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2219952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2178957	10.00	ppbv	0.00

System Monitoring Compounds

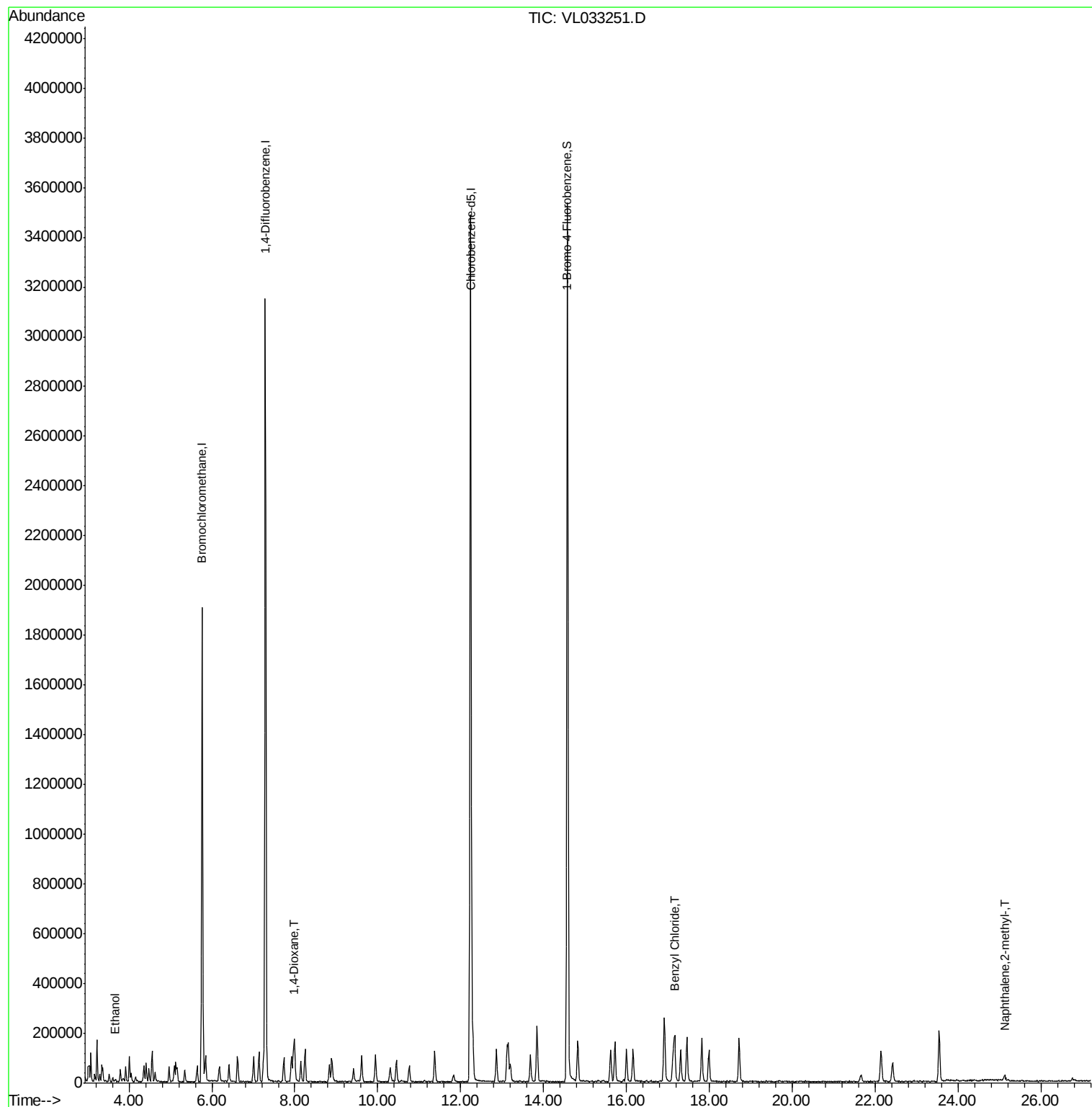
68) 1-Bromo-4-Fluorobenzene	14.57	95	1689629	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

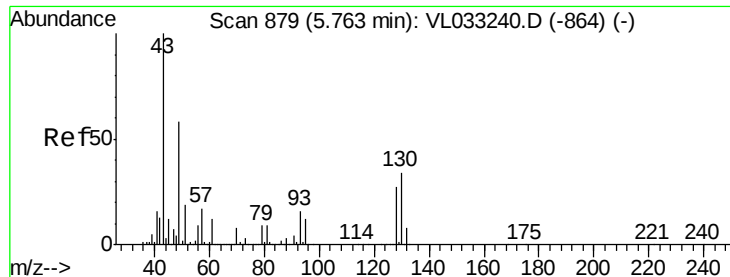
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.66	45	10153m	0.762	ppbv	
40) 1,4-Dioxane	8.00	88	10293m	0.341	ppbv	
66) Benzyl Chloride	17.15	91	29428m	0.261	ppbv	
80) Naphthalene,2-methyl-	25.13	142	11689	0.119	ppbv	94

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033251.D

Acq: 6 Mar 2019 11:04

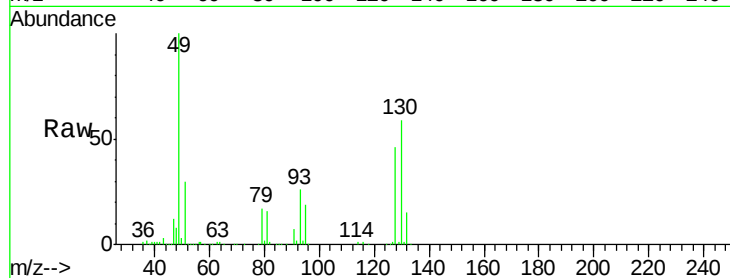
Tot Ion: 49 Resp: 873666

Ion	Ratio	Lower	Upper
49	100		
128	45.6	22.9	68.8
130	59.2	29.3	88.0

49 100

128 45.6 22.9 68.8

130 59.2 29.3 88.0

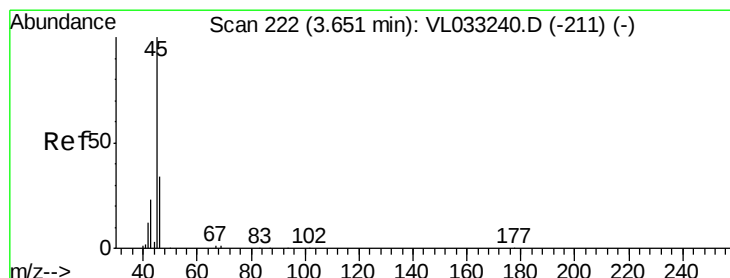
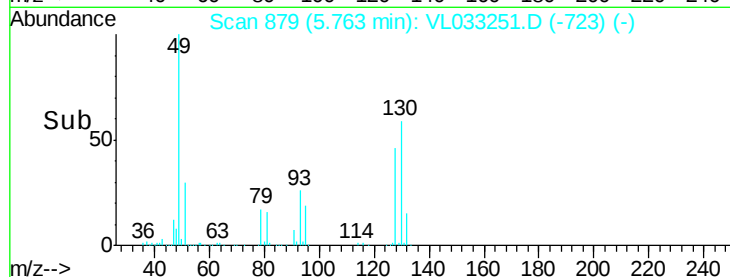


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#13

Ethanol

Concen: 0.762 ppbv m

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033251.D

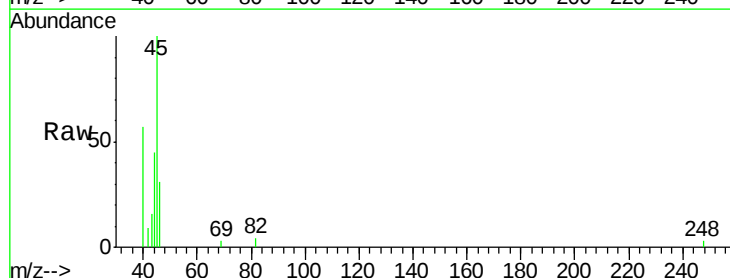
Acq: 6 Mar 2019 11:04

Tgt Ion: 45 Resp: 10153

Ion	Ratio	Lower	Upper
45	100		
46	33.9	15.3	61.3

45 100

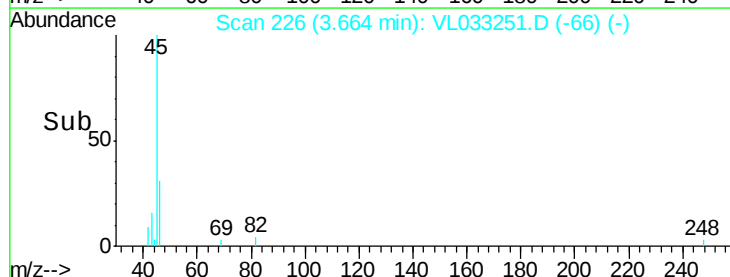
46 33.9 15.3 61.3

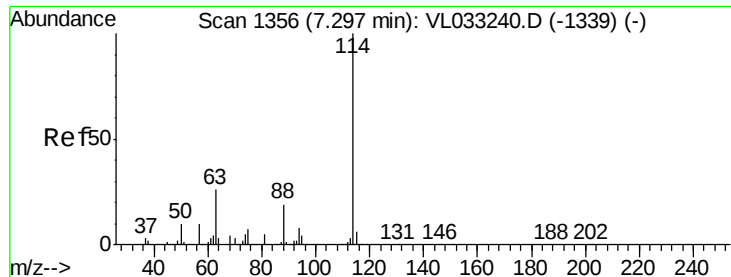


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

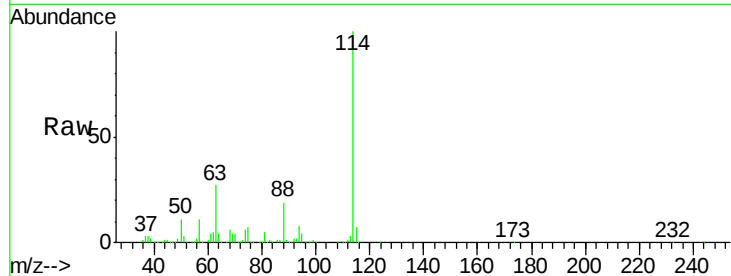
Time-->



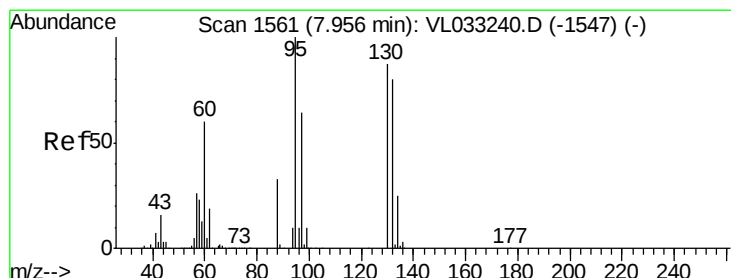
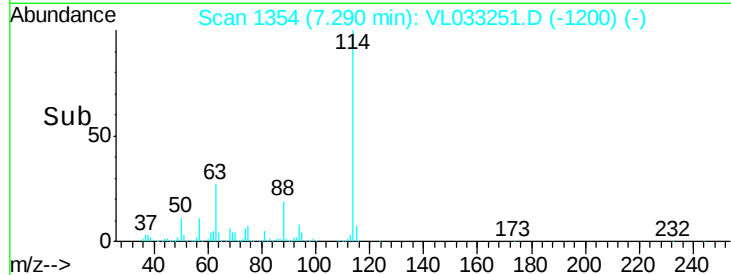
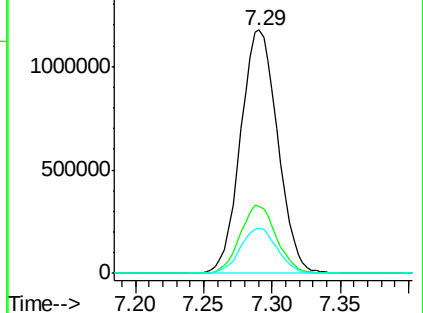


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tot Ion:114 Resp: 2219952
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.0 33.0
 88 18.5 15.0 22.4

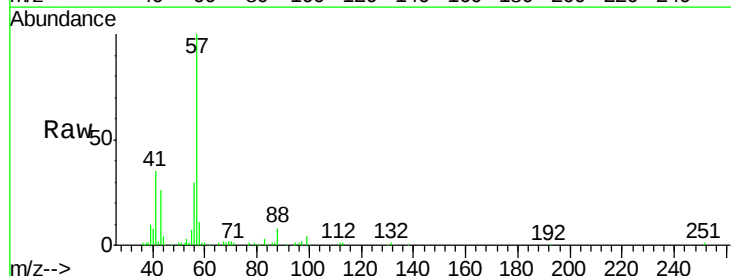


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

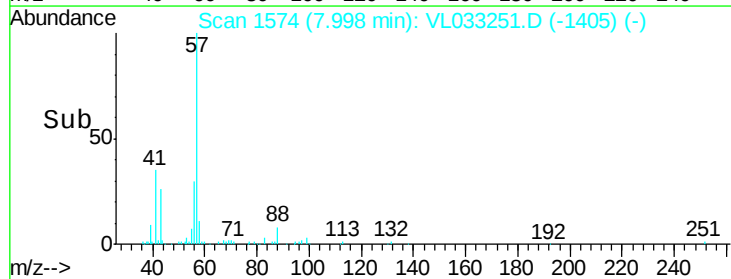
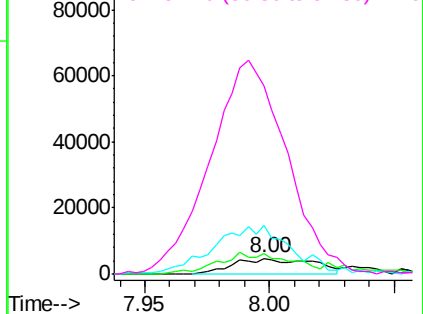


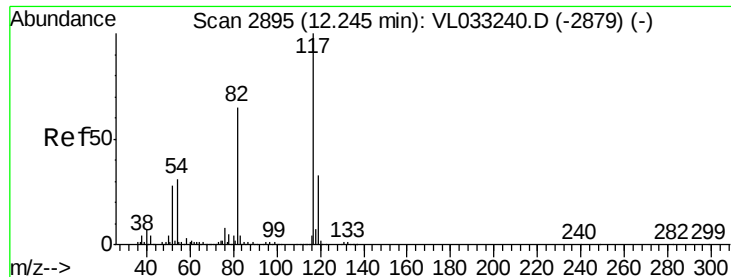
#40
 1,4-Dioxane
 Concen: 0.341 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. 0.04 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 88 Resp: 10293
 Ion Ratio Lower Upper
 88 100
 58 0.0 105.1 157.7#
 43 0.0 0.0 0.0
 57 0.0 0.0 0.0



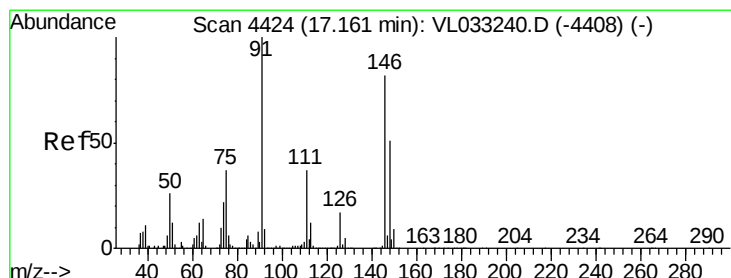
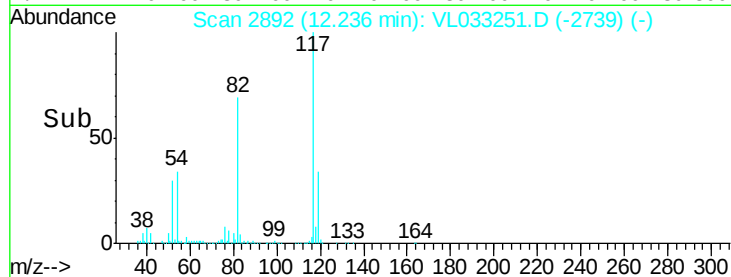
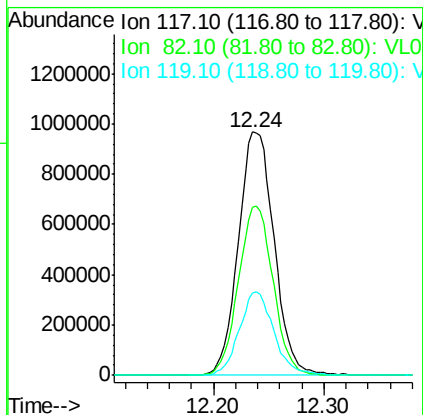
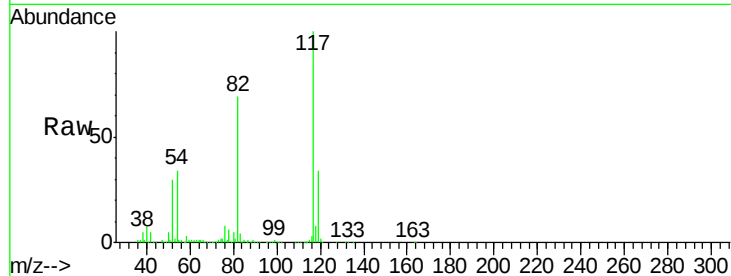
Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0





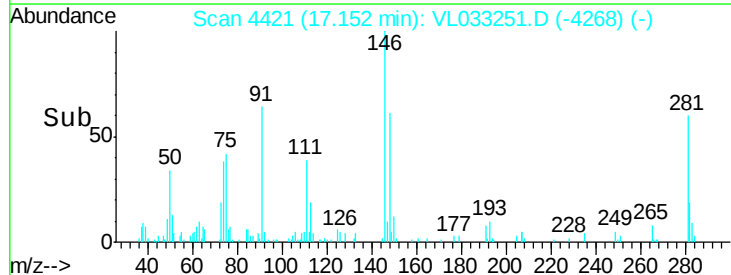
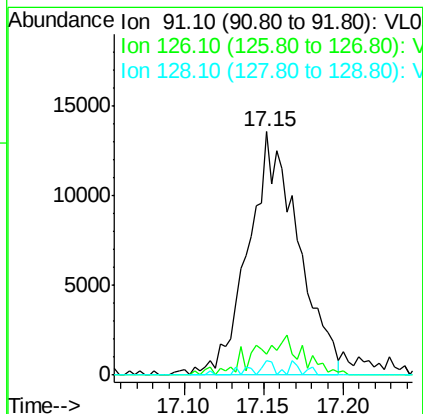
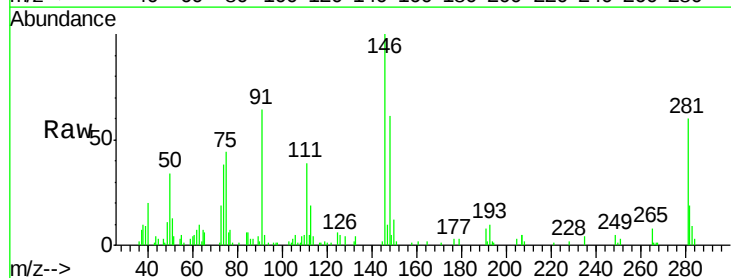
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

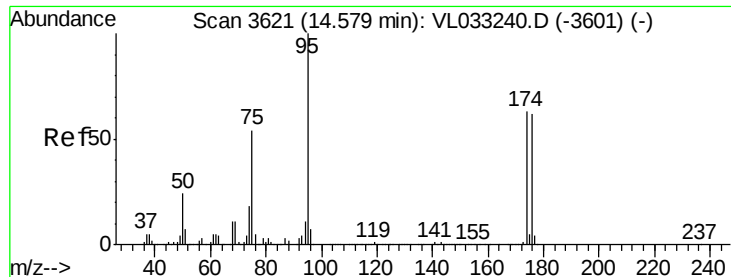
Tot Ion:117 Resp: 2178957
Ion Ratio Lower Upper
117 100
82 67.7 51.8 77.8
119 33.2 43.6 65.4#



#66
Benzyl Chloride
Concen: 0.261 ppbv m
RT: 17.15 min Scan# 4421
Delta R.T. -0.01 min
Lab File: VL033251.D
Acq: 6 Mar 2019 11:04

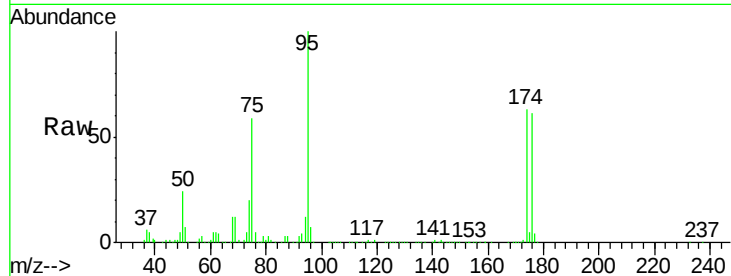
Tgt Ion: 91 Resp: 29428
Ion Ratio Lower Upper
91 100
126 0.0 13.4 20.0#
128 2.1 4.2 6.2#



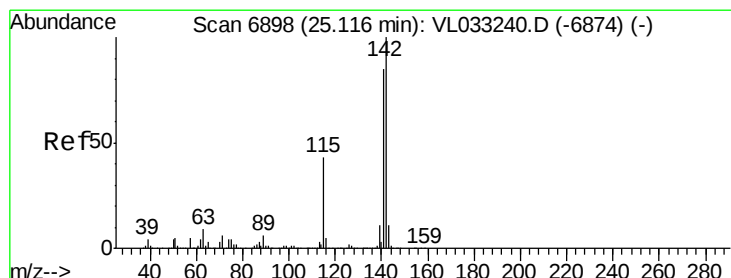
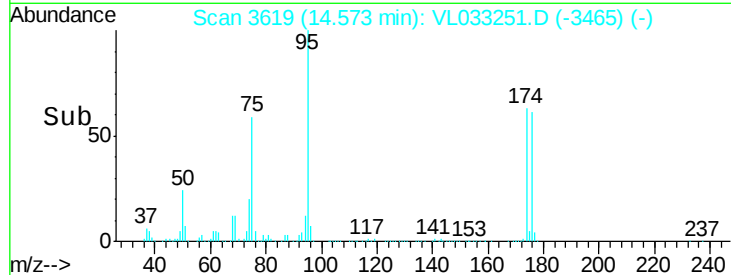
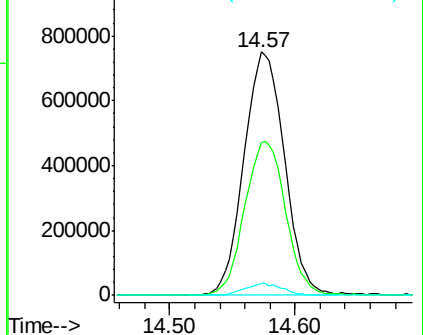


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.219 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tot Ion: 95 Resp: 1689629
 Ion Ratio Lower Upper
 95 100
 174 64.3 51.0 76.4
 175 4.6 3.8 5.6

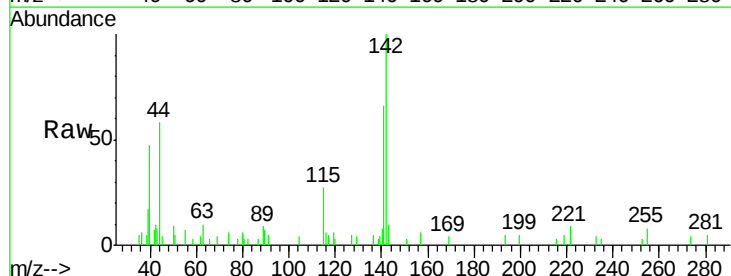


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#80
 Naphthalene, 2-methyl-
 Concen: 0.119 ppbv
 RT: 25.13 min Scan# 6902
 Delta R.T. 0.01 min
 Lab File: VL033251.D
 Acq: 6 Mar 2019 11:04

Tgt Ion: 142 Resp: 11689
 Ion Ratio Lower Upper
 142 100
 141 79.6 68.0 102.0
 115 39.1 34.1 51.1



Abundance Ion 142.00 (141.70 to 142.70): V
 Ion 141.00 (140.70 to 141.70): V
 Ion 115.00 (114.70 to 115.70): V

