

Data File : VL033222.D
Acq On : 15 Feb 2019 6:46
Operator : SY/AP
Sample : K1483-07DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 07:19:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	697965	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1561327	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1775117	10.00	ppbv	0.00

System Monitoring Compounds

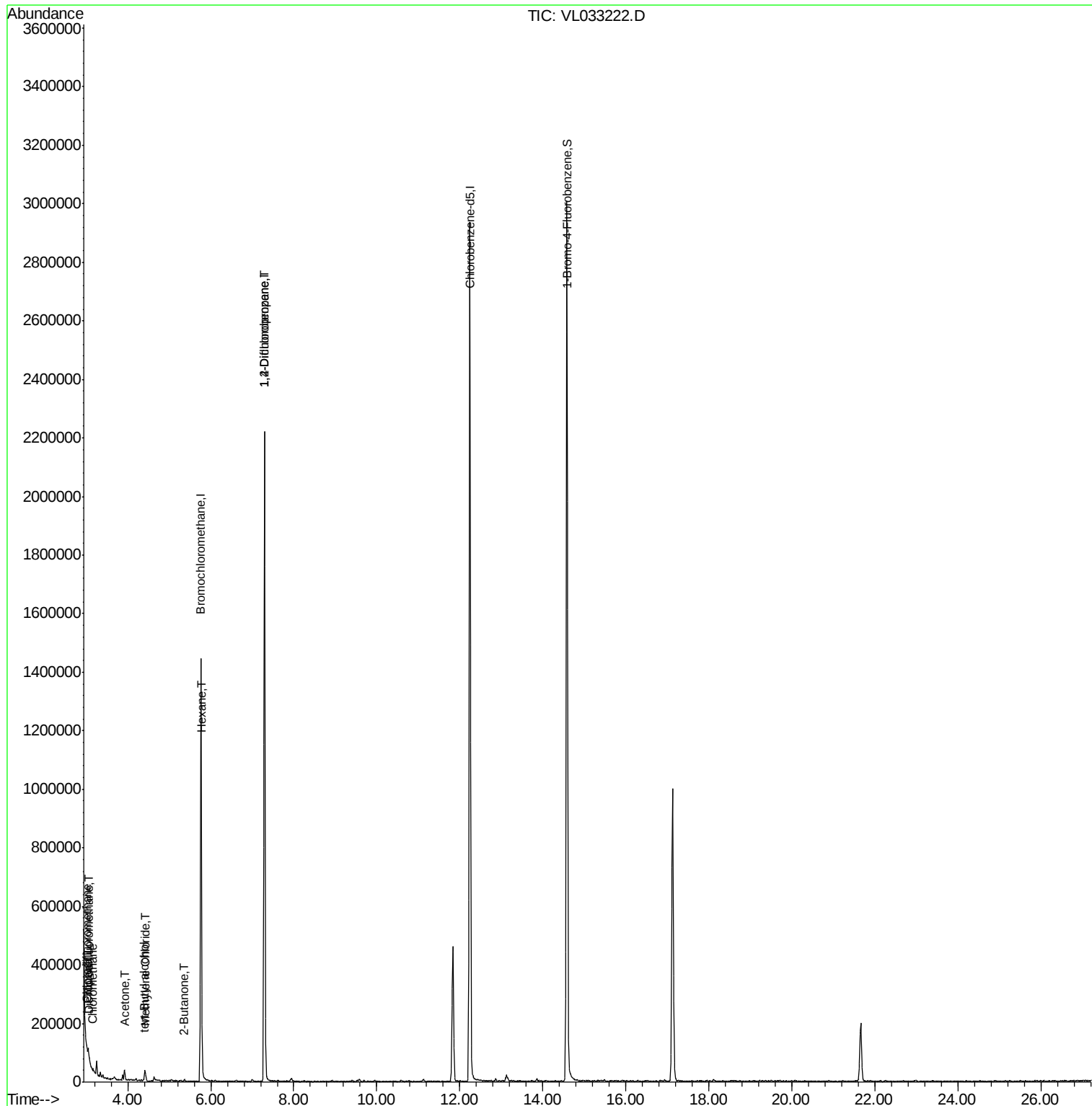
68) 1-Bromo-4-Fluorobenzene	14.58	95	1445202	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

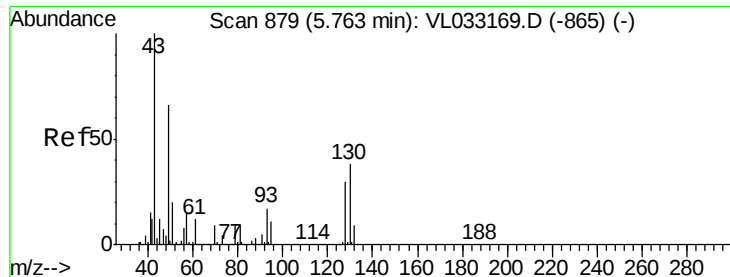
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	6991	0.052	ppbv	96
3) Chlorodifluoromethane	3.02	51	5911	0.070	ppbv	94
4) Chloromethane	3.17	50	2189	0.049	ppbv #	76
9) Propene	3.04	41	1484	0.037	ppbv #	1
15) Acetone	3.92	43	35290	0.449	ppbv	95
17) tert-Butyl alcohol	4.39	59	748	0.050	ppbv #	74
20) Methylene Chloride	4.41	84	7803	0.249	ppbv #	86
26) Hexane	5.78	57	6622	0.080	ppbv #	46
34) 2-Butanone	5.35	43	3321	0.034	ppbv #	54
39) 1,2-Dichloropropane	7.29	63	419946	6.720	ppbv #	26

(#) = 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

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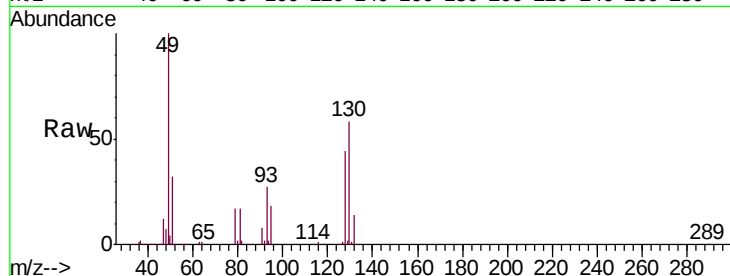
Tgt Ion: 49 Resp: 697965

Ion Ratio Lower Upper

49 100

128 45.2 23.6 71.0

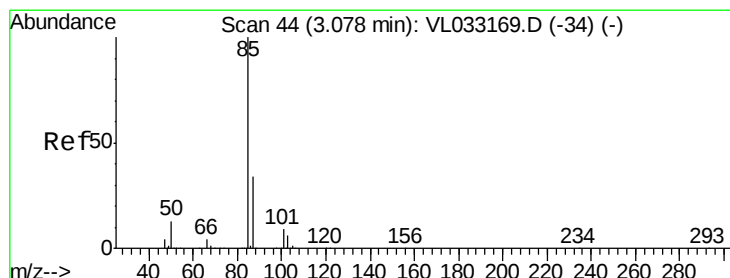
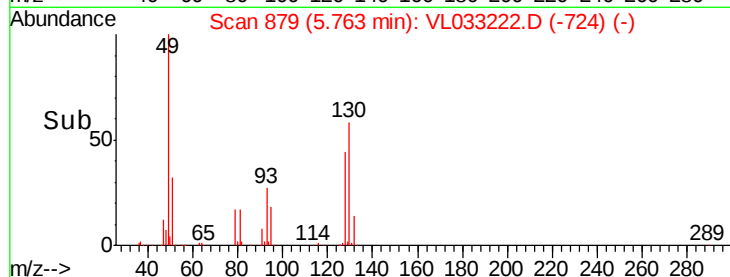
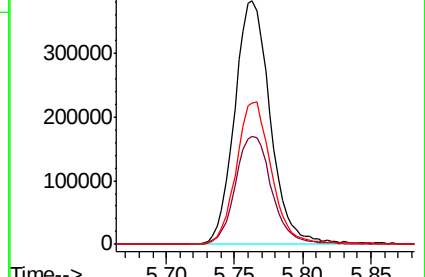
130 57.9 30.3 91.0



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



#2

Dichlorodifluoromethane

Concen: 0.052 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033222.D

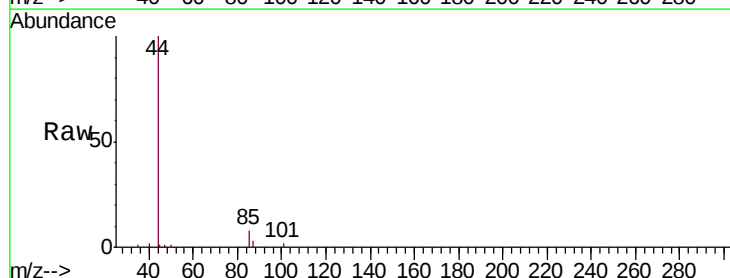
Acq: 15 Feb 2019 6:46

Tgt Ion: 85 Resp: 6991

Ion Ratio Lower Upper

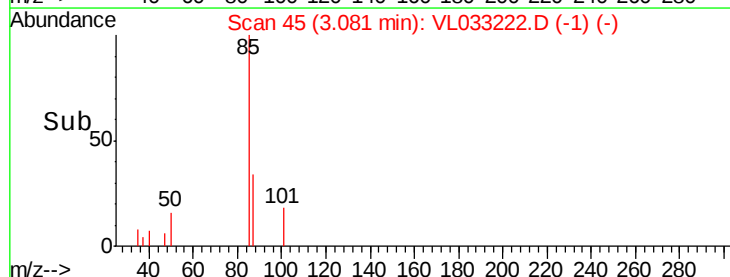
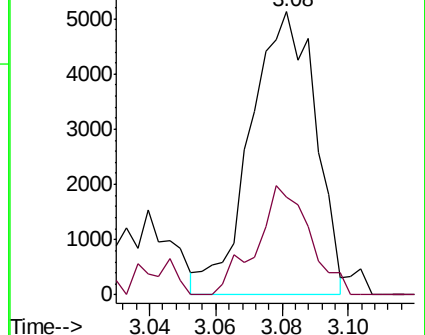
85 100

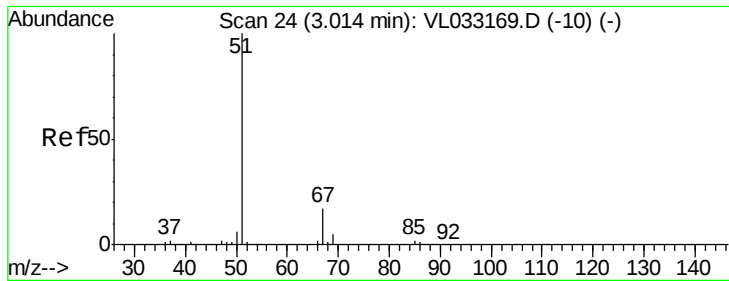
87 36.7 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.070 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL033222.D

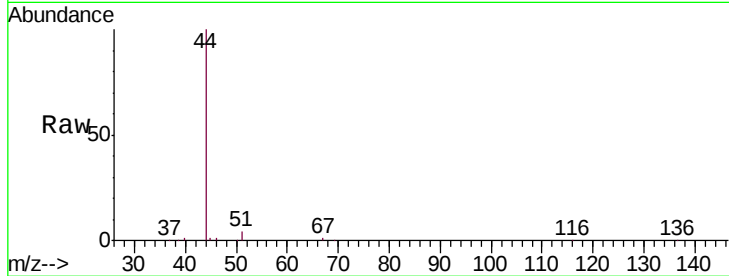
Acq: 15 Feb 2019 6:46

Tgt Ion: 51 Resp: 5911

Ion Ratio Lower Upper

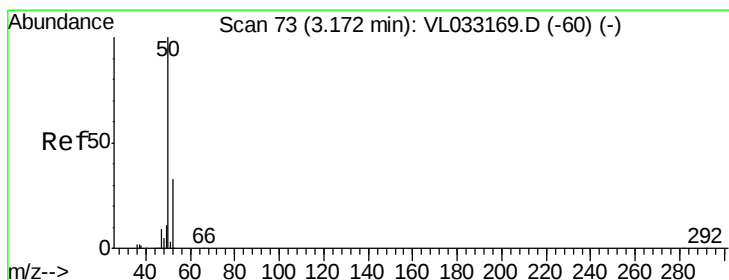
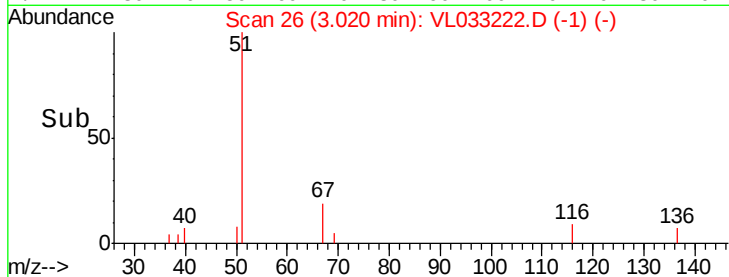
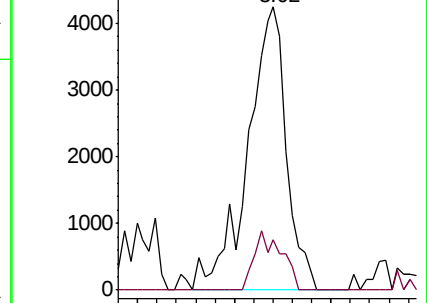
51 100

67 14.7 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033222.D

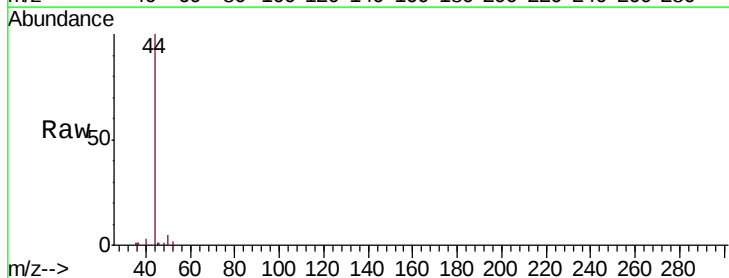
Acq: 15 Feb 2019 6:46

Tgt Ion: 50 Resp: 2189

Ion Ratio Lower Upper

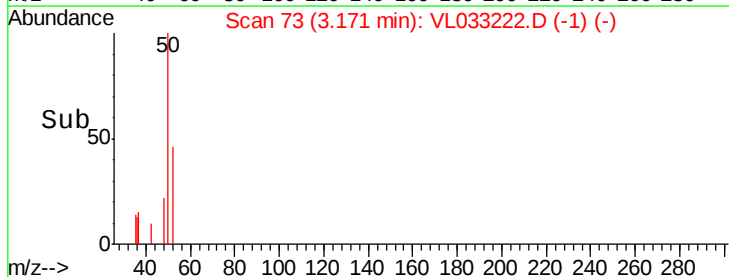
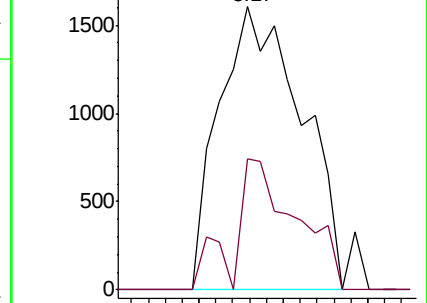
50 100

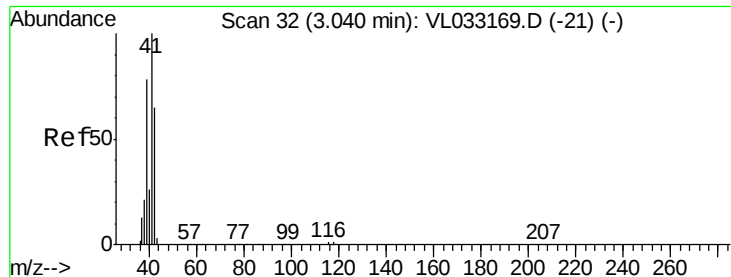
52 46.4 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.037 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033222.D

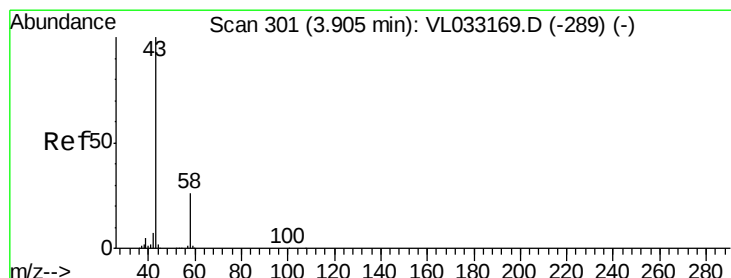
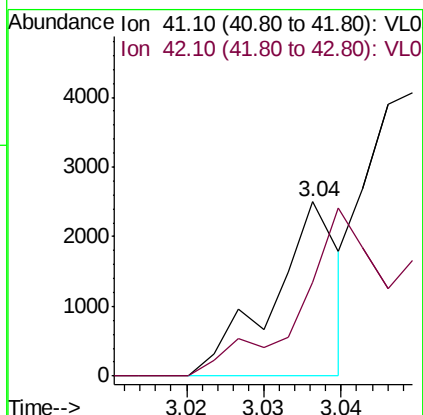
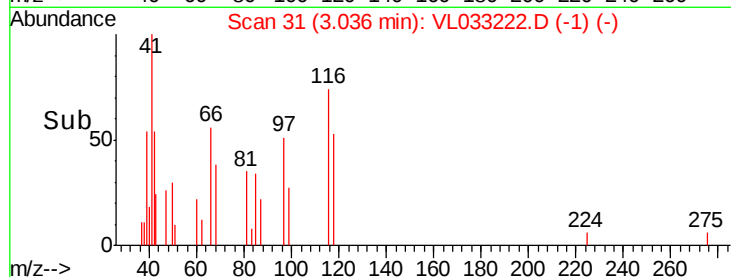
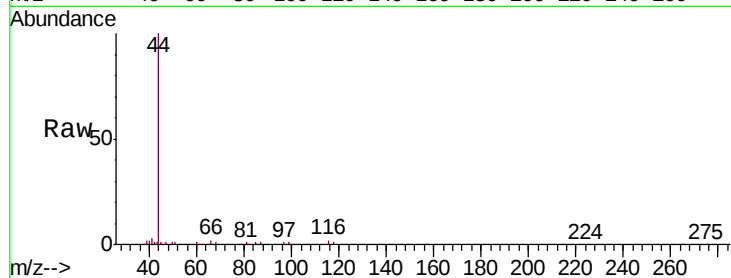
Acq: 15 Feb 2019 6:46

Tgt Ion: 41 Resp: 1484

Ion Ratio Lower Upper

41 100

42 203.8 55.0 82.6#



#15

Acetone

Concen: 0.449 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033222.D

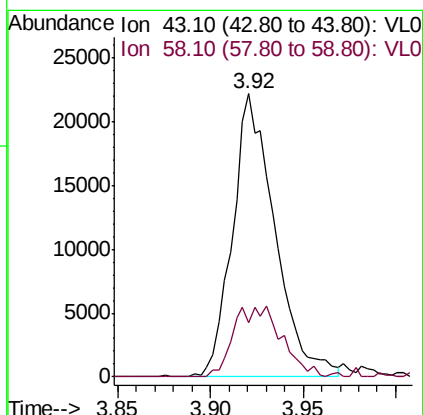
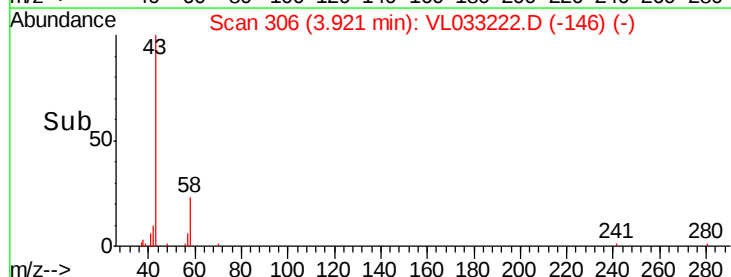
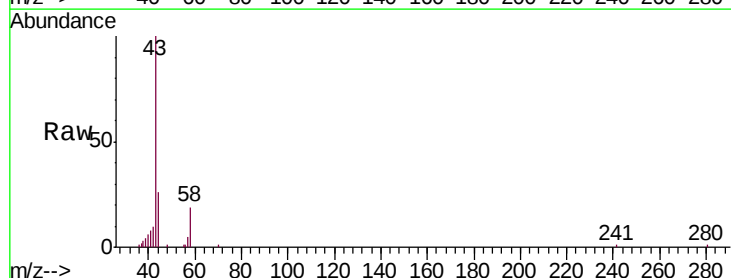
Acq: 15 Feb 2019 6:46

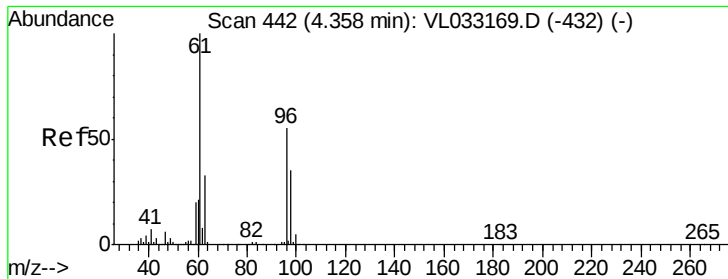
Tgt Ion: 43 Resp: 35290

Ion Ratio Lower Upper

43 100

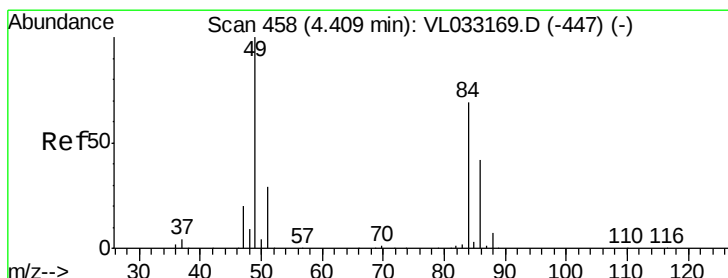
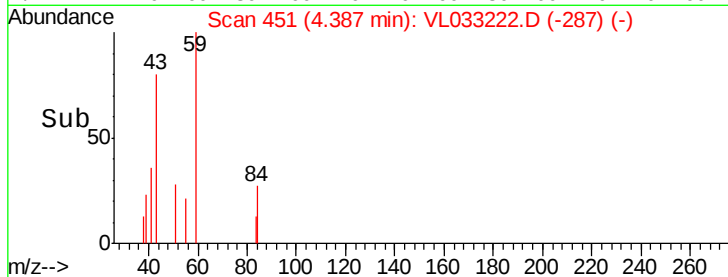
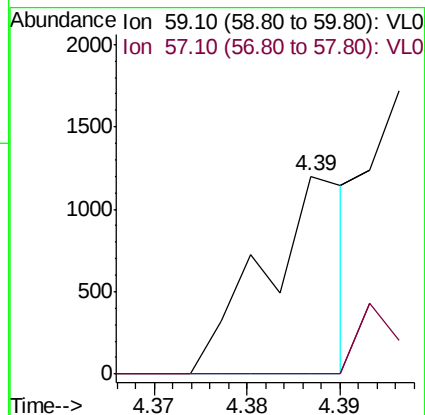
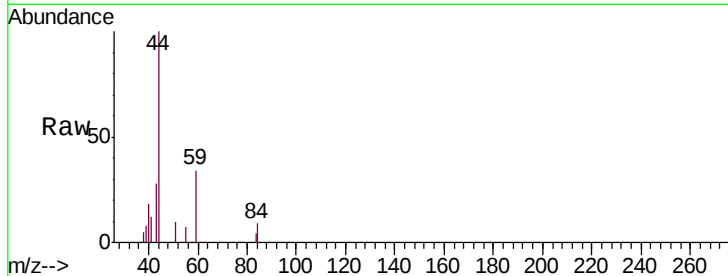
58 28.9 21.1 31.7





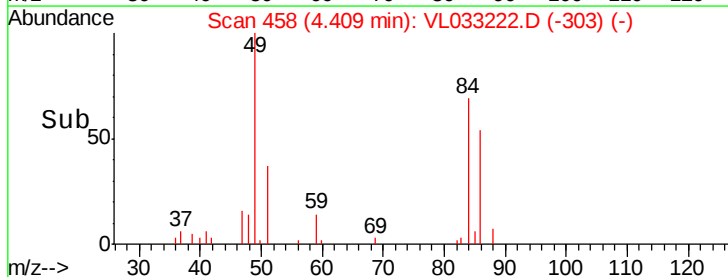
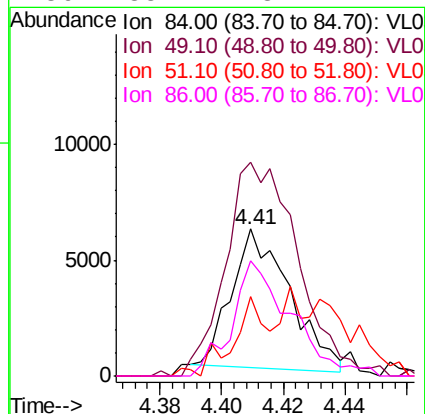
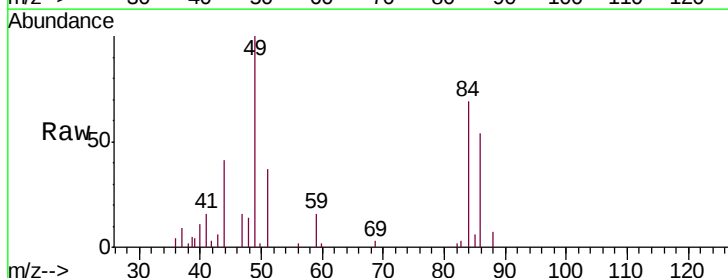
#17
 tert-Butyl alcohol
 Concen: 0.050 ppbv
 RT: 4.39 min Scan# 451
 Delta R.T. 0.03 min
 Lab File: VL033222.D
 Acq: 15 Feb 2019 6:46

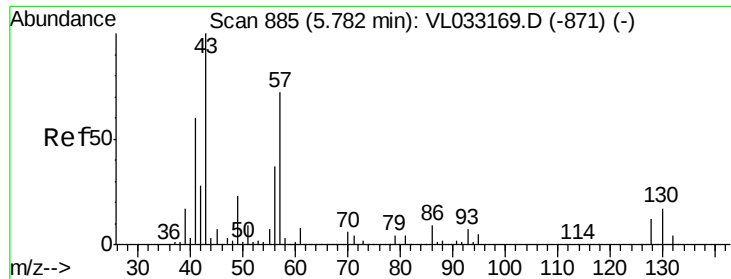
Tgt Ion: 59 Resp: 748
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#



#20
 Methylene Chloride
 Concen: 0.249 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL033222.D
 Acq: 15 Feb 2019 6:46

Tgt Ion: 84 Resp: 7803
 Ion Ratio Lower Upper
 84 100
 49 149.4 115.8 173.8
 51 53.8 33.0 49.6#
 86 85.1 48.2 72.2#





#26

Hexane

Concen: 0.080 ppbv

RT: 5.78 min Scan# 885

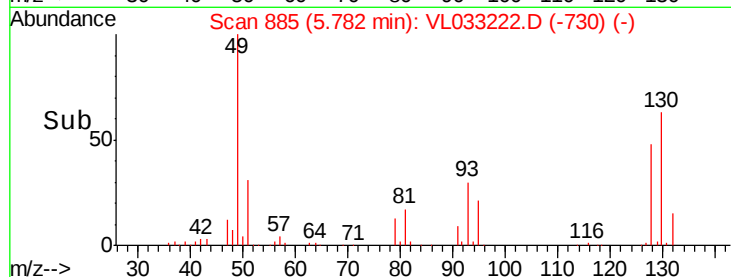
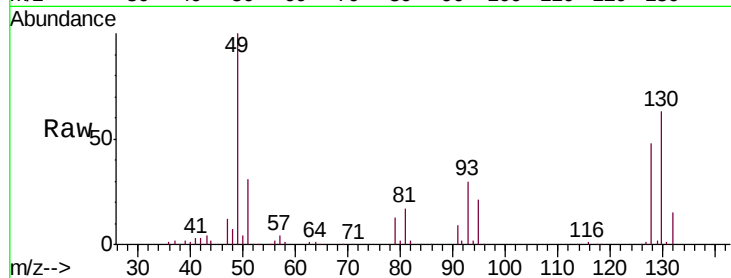
Delta R.T. -0.00 min

Lab File: VL033222.D

Acq: 15 Feb 2019 6:46

Tgt Ion: 57 Resp: 6622

Ion	Ratio	Lower	Upper
57	100		
41	95.4	69.4	104.2
43	88.5	176.7	265.1#
56	57.1	41.4	62.0

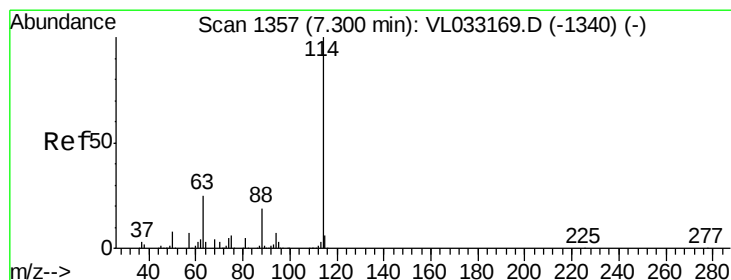
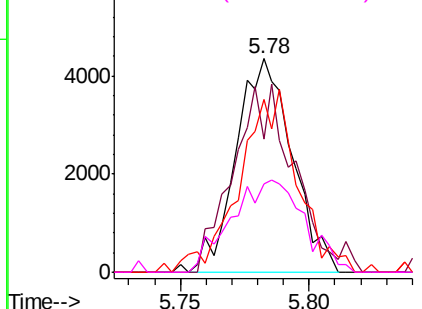


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1355

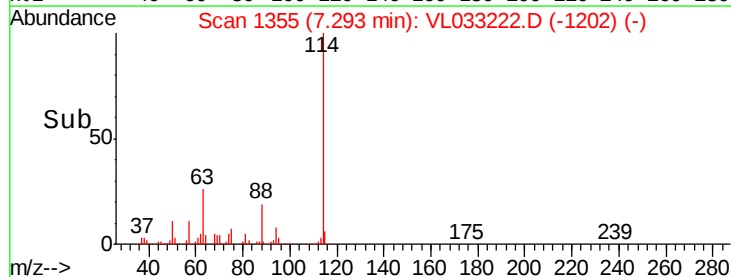
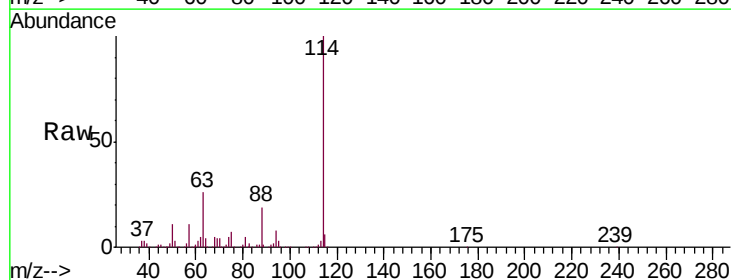
Delta R.T. -0.01 min

Lab File: VL033222.D

Acq: 15 Feb 2019 6:46

Tgt Ion: 114 Resp: 1561327

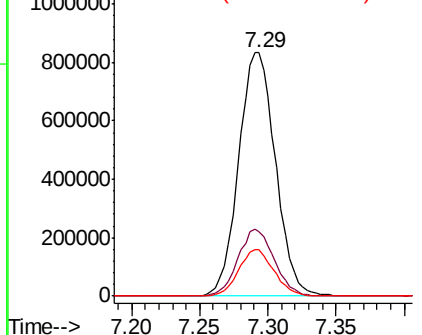
Ion	Ratio	Lower	Upper
114	100		
63	27.2	20.8	31.2
88	18.6	14.6	22.0

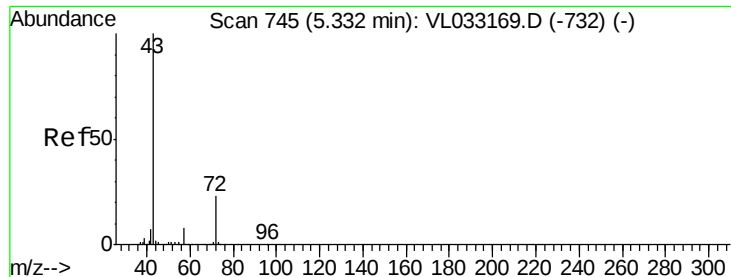


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

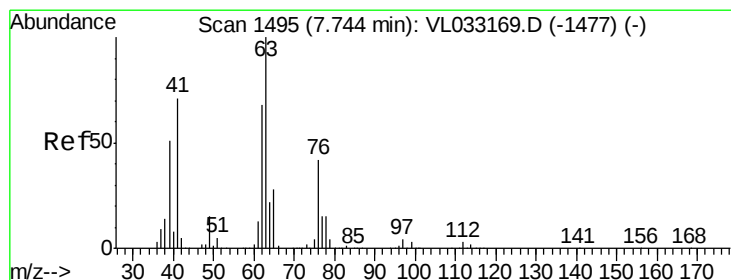
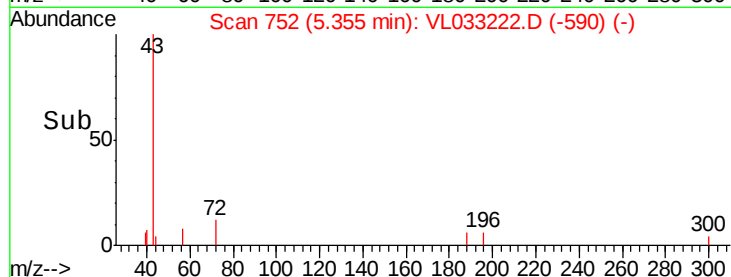
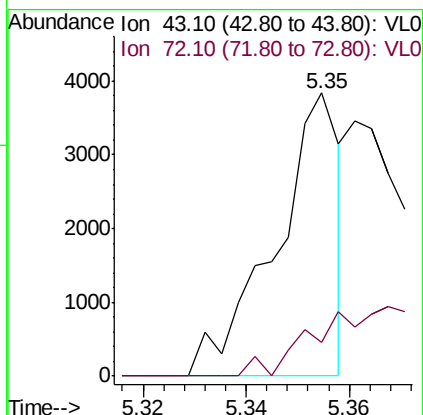
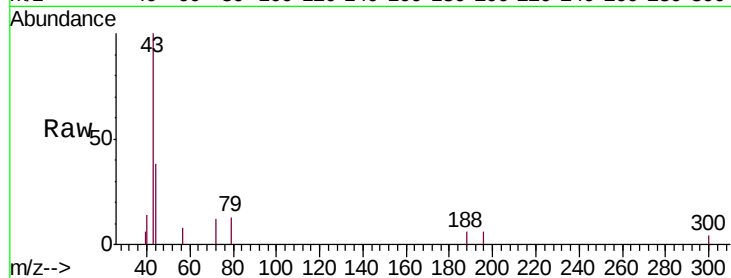
Ion 88.10 (87.80 to 88.80): VL0





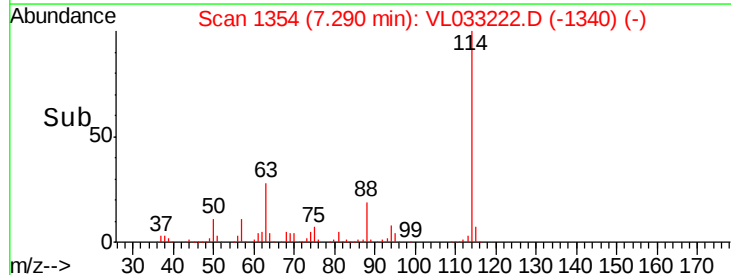
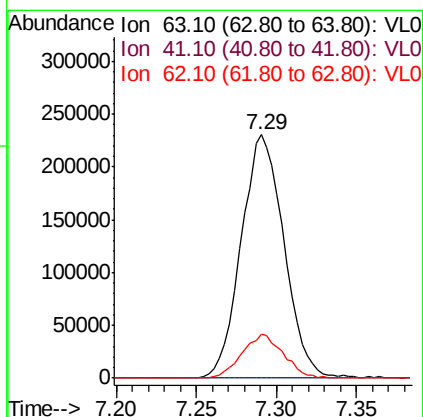
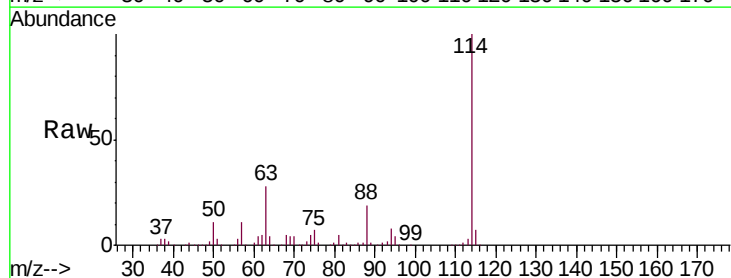
#34
 2-Butanone
 Concen: 0.034 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VL033222.D
 Acq: 15 Feb 2019 6:46

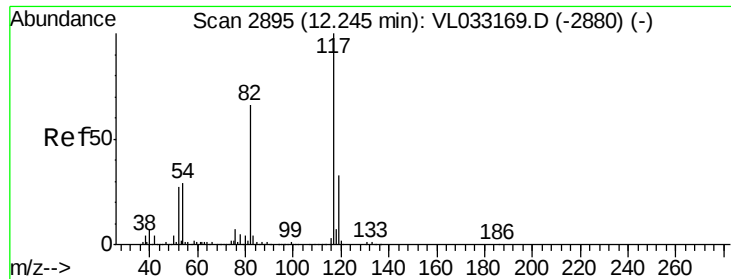
Tgt Ion: 43 Resp: 3321
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.8 26.6#



#39
 1,2-Dichloropropane
 Concen: 6.720 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.45 min
 Lab File: VL033222.D
 Acq: 15 Feb 2019 6:46

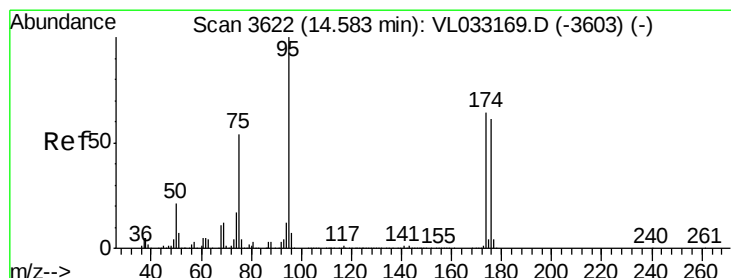
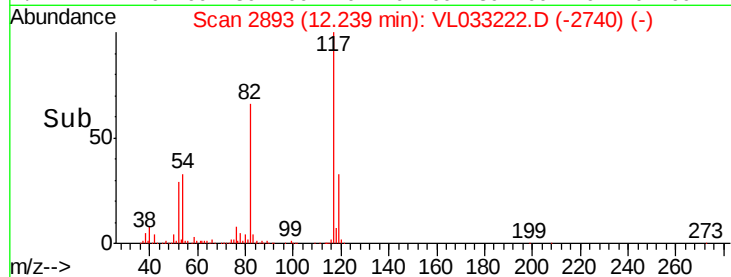
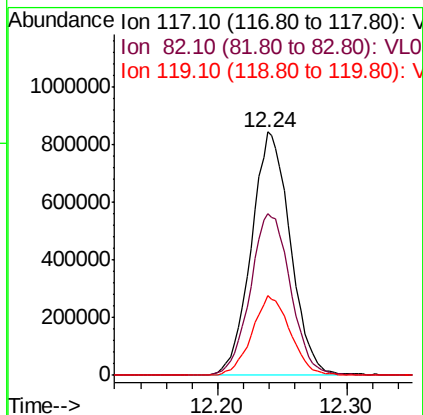
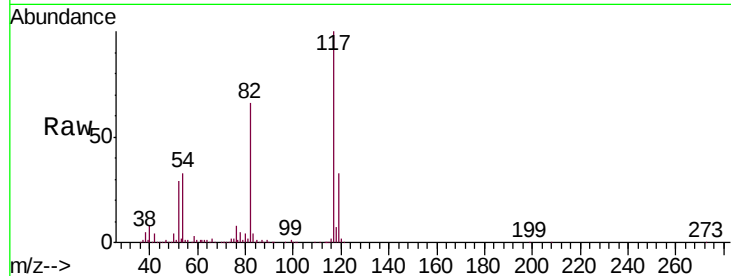
Tgt Ion: 63 Resp: 419946
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.4 84.6#
 62 18.0 54.2 81.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033222.D
Acq: 15 Feb 2019 6:46

Tgt Ion: 117 Resp: 1775117
Ion Ratio Lower Upper
117 100
82 68.8 49.5 74.3
119 32.3 24.4 36.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.571 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033222.D
Acq: 15 Feb 2019 6:46

Tgt Ion: 95 Resp: 1445202
Ion Ratio Lower Upper
95 100
174 63.1 51.2 76.8
175 4.6 3.8 5.6

