

Data File : VL033225.D
Acq On : 15 Feb 2019 10:25
Operator : SY/AP
Sample : K1483-02DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 04:13:55 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	727956	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1928658	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1933823	10.00	ppbv	0.00

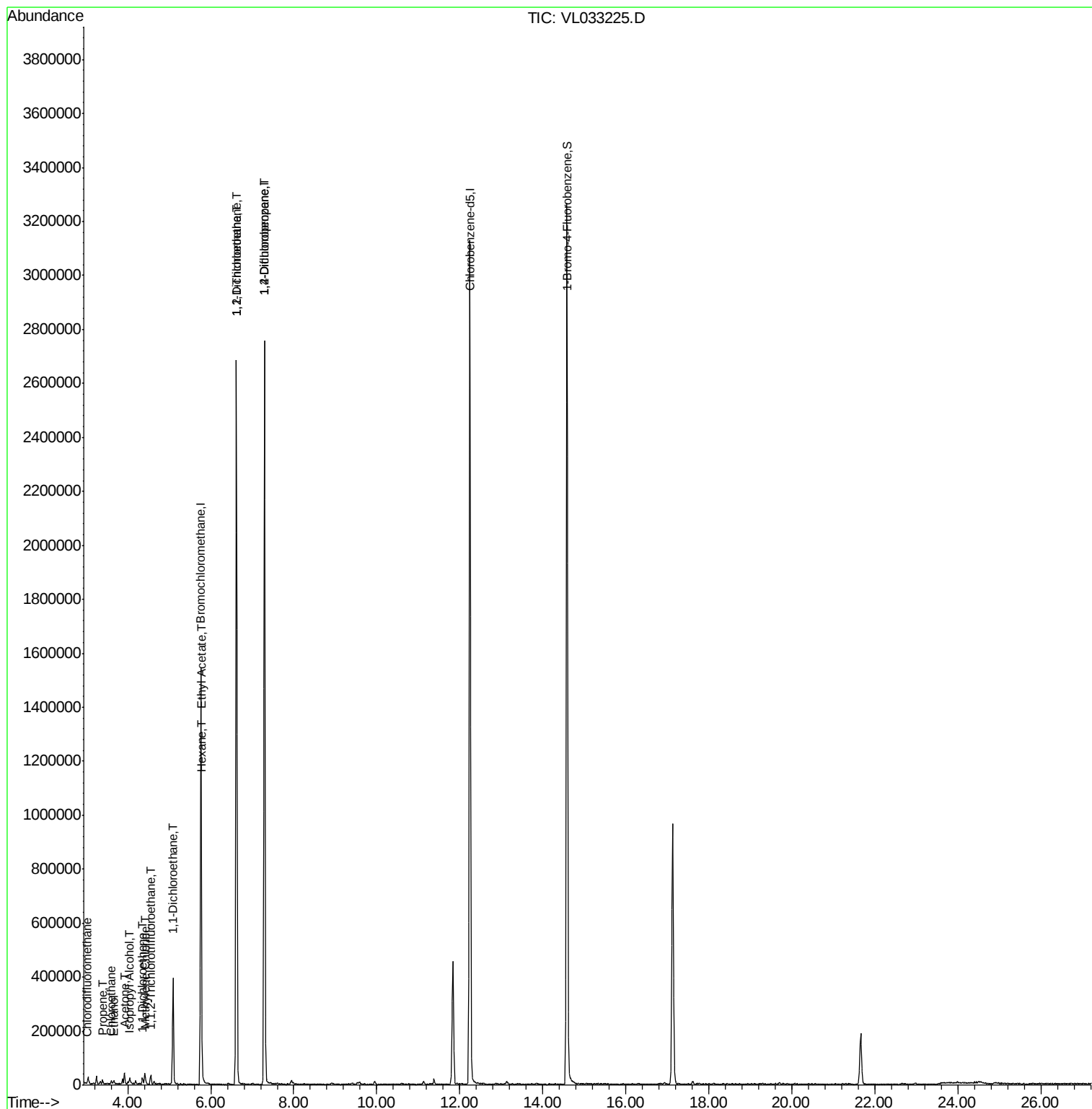
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1557780 10.46 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.60%

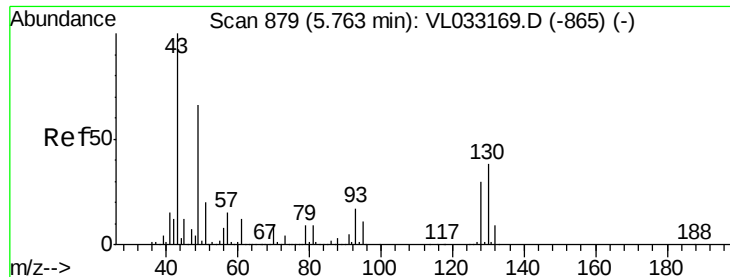
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.01	51	2820	0.032	ppbv #	60
7) Chloroethane	3.60	64	5067	0.321	ppbv	91
9) Propene	3.39	41	2146	0.051	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.55	101	5894	0.075	ppbv #	14
13) Ethanol	3.66	45	5381	0.381	ppbv #	37
15) Acetone	3.92	43	30794	0.375	ppbv	97
18) 1,1-Dichloroethene	4.35	96	6884	0.197	ppbv #	85
19) Isopropyl Alcohol	4.05	45	20849	0.375	ppbv #	95
20) Methylene Chloride	4.41	84	12336	0.378	ppbv #	92
24) 1,1-Dichloroethane	5.09	63	328410	3.266	ppbv	99
25) Ethyl Acetate	5.78	43	7799	0.042	ppbv #	77
26) Hexane	5.78	57	8725	0.101	ppbv #	37
32) 1,1,1-Trichloroethane	6.62	97	1679247	11.496	ppbv	98
37) 1,2-Dichloroethane	6.62	62	118862	1.097	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	520814	6.747	ppbv #	25

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

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QLast Update : Wed Feb 06 09:13:11 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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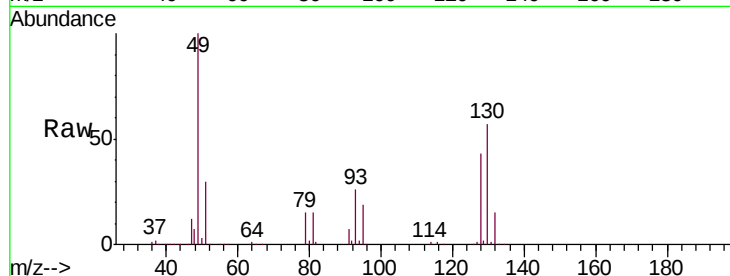
Tgt Ion: 49 Resp: 727956

Ion Ratio Lower Upper

49 100

128 45.2 23.6 71.0

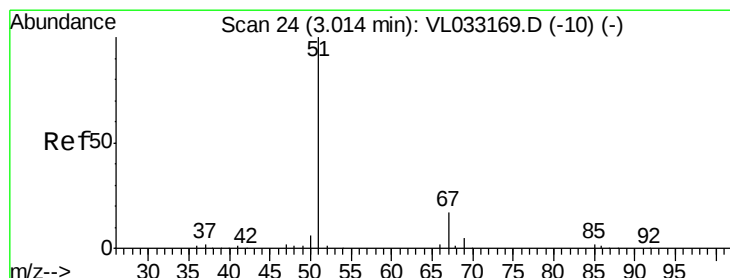
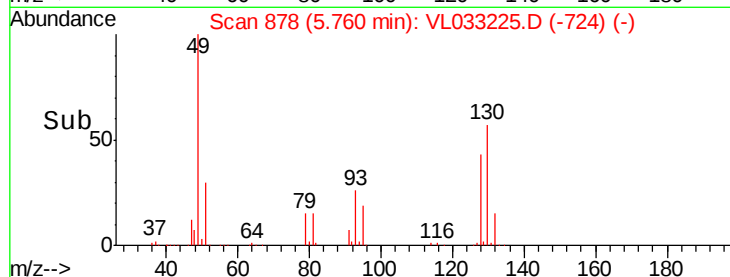
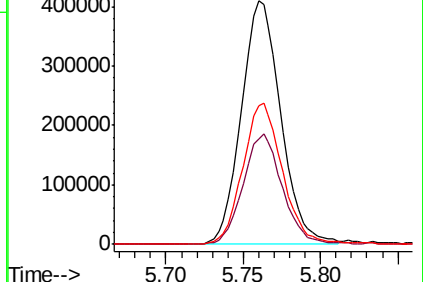
130 59.0 30.3 91.0



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



#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033225.D

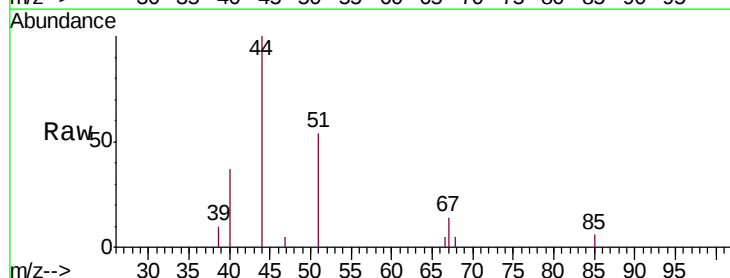
Acq: 15 Feb 2019 10:25

Tgt Ion: 51 Resp: 2820

Ion Ratio Lower Upper

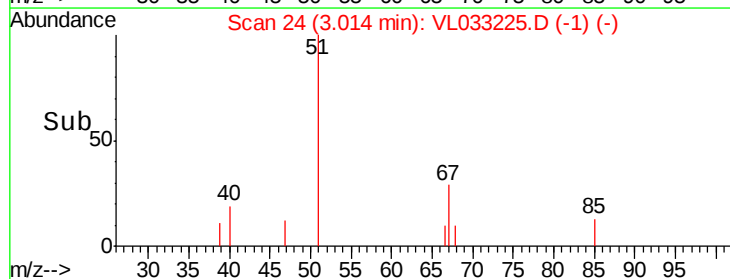
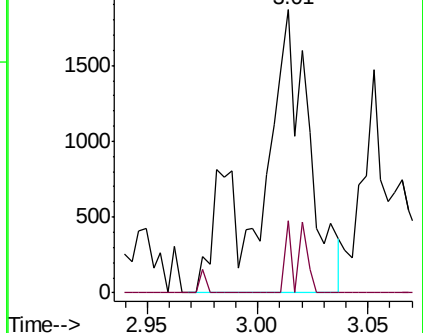
51 100

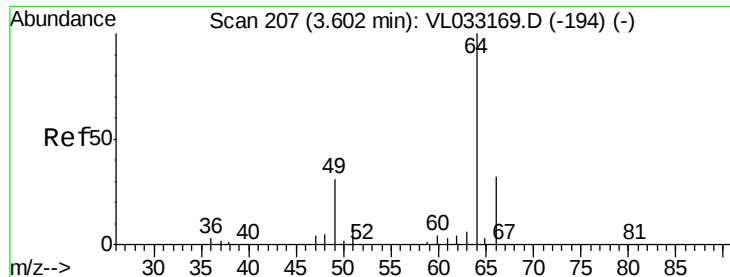
67 0.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#7

Chloroethane

Concen: 0.321 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033225.D

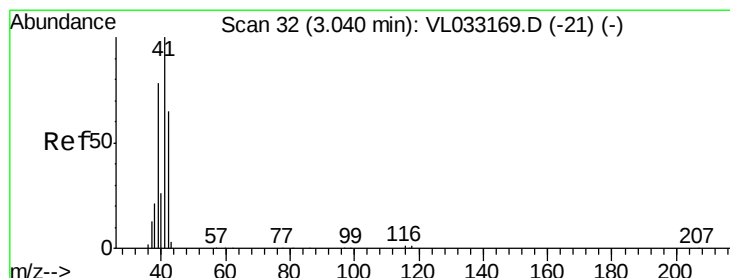
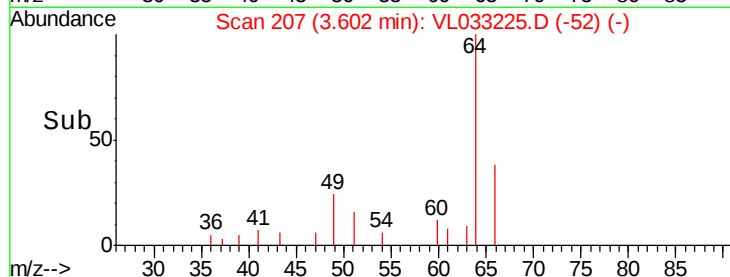
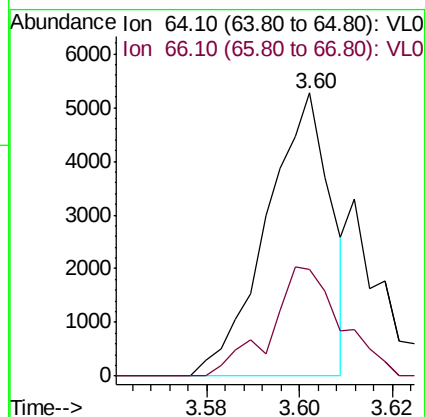
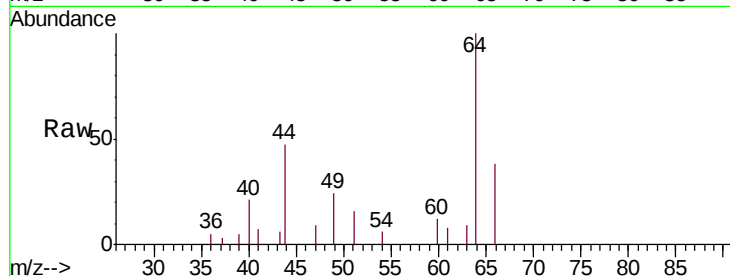
Acq: 15 Feb 2019 10:25

Tgt Ion: 64 Resp: 5067

Ion Ratio Lower Upper

64 100

66 37.7 26.0 39.0



#9

Propene

Concen: 0.051 ppbv

RT: 3.39 min Scan# 141

Delta R.T. 0.35 min

Lab File: VL033225.D

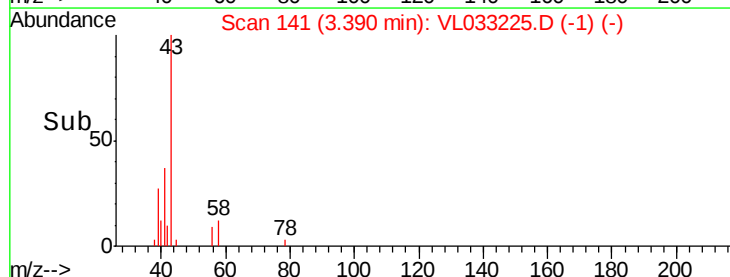
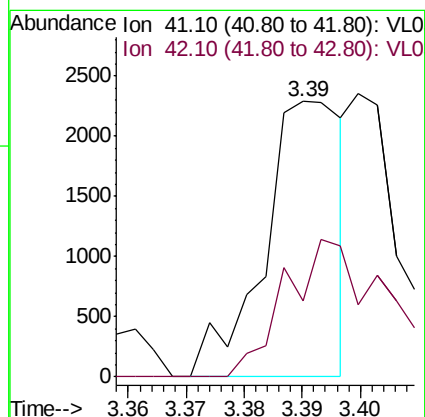
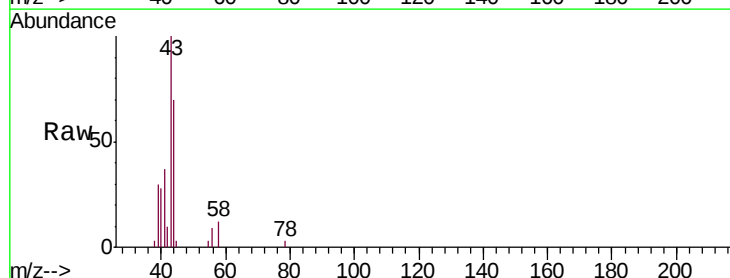
Acq: 15 Feb 2019 10:25

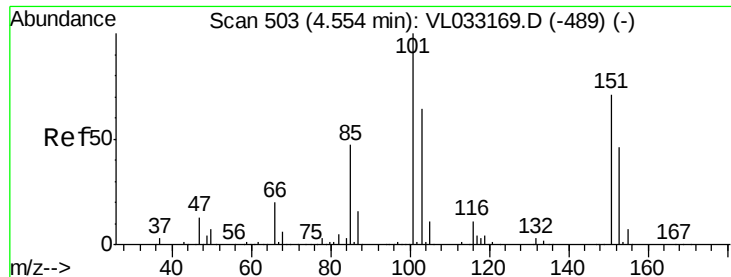
Tgt Ion: 41 Resp: 2146

Ion Ratio Lower Upper

41 100

42 61.8 55.0 82.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.075 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033225.D

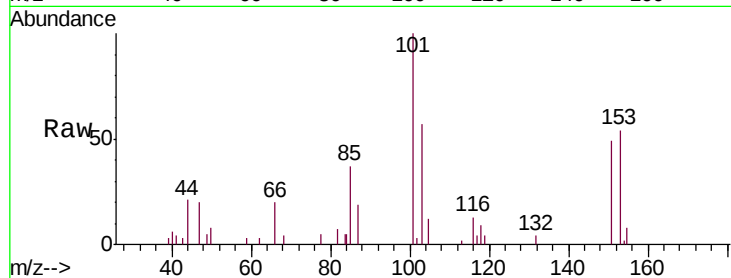
Acq: 15 Feb 2019 10:25

Tgt Ion: 101 Resp: 5894

Ion Ratio Lower Upper

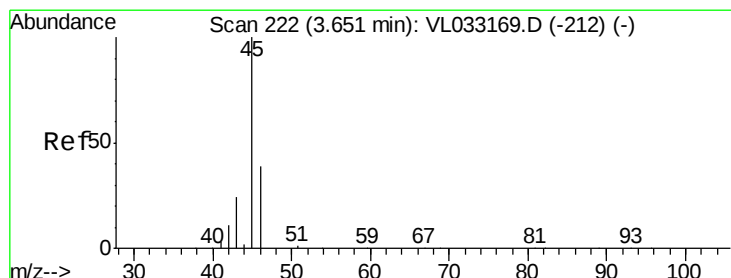
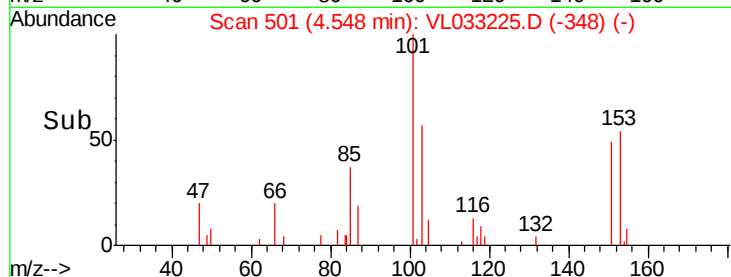
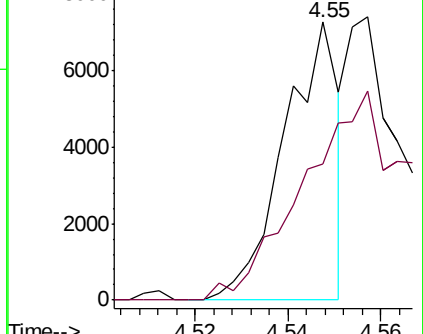
101 100

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: 0.381 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033225.D

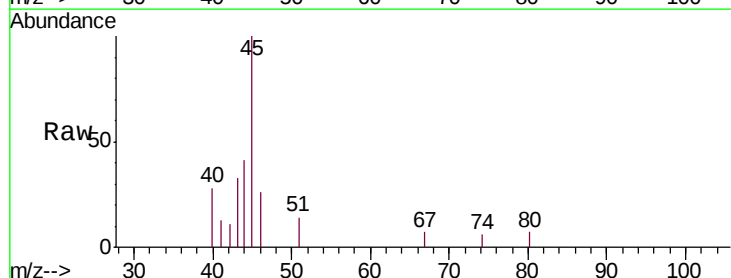
Acq: 15 Feb 2019 10:25

Tgt Ion: 45 Resp: 5381

Ion Ratio Lower Upper

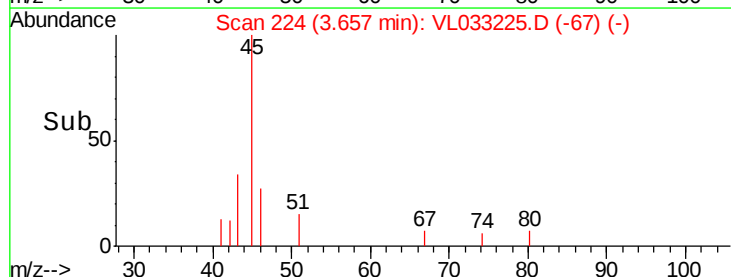
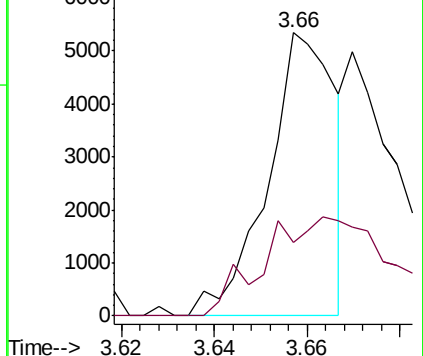
45 100

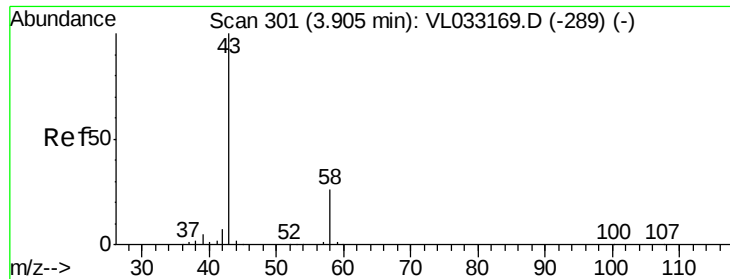
46 0.0 15.0 60.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.375 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033225.D

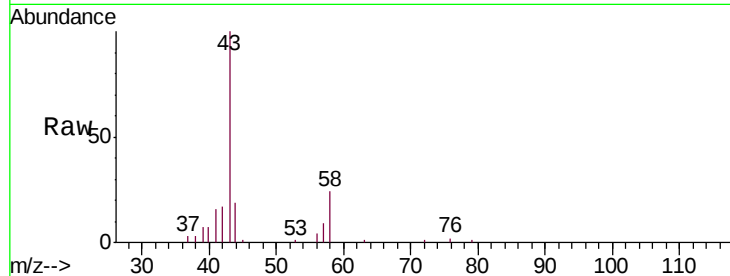
Acq: 15 Feb 2019 10:25

Tgt Ion: 43 Resp: 30794

Ion Ratio Lower Upper

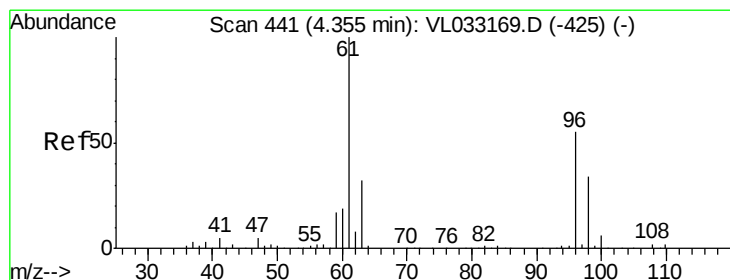
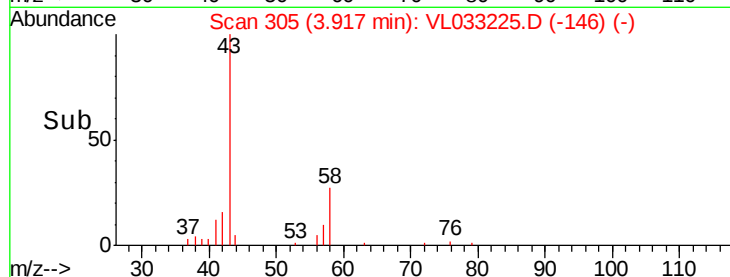
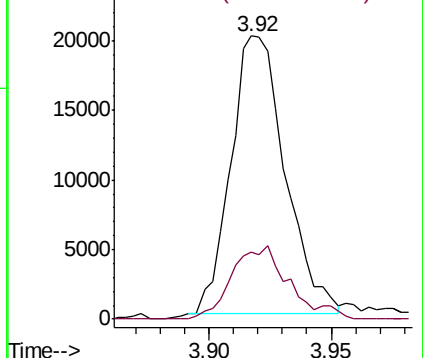
43 100

58 27.9 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.197 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

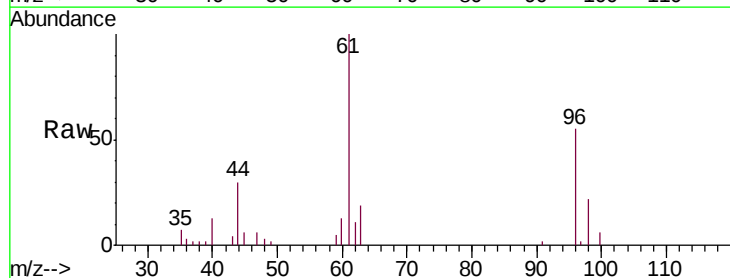
Tgt Ion: 96 Resp: 6884

Ion Ratio Lower Upper

96 100

61 168.5 145.0 217.6

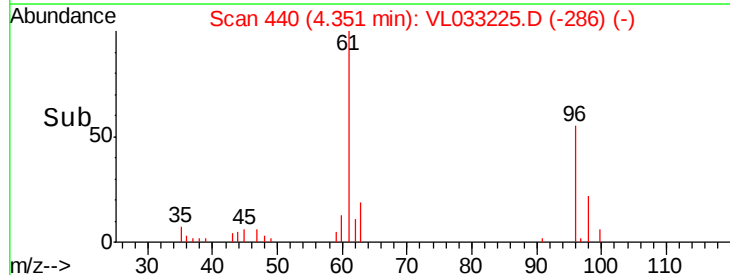
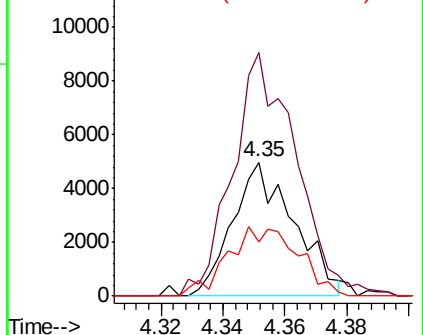
98 36.8 50.0 75.0#

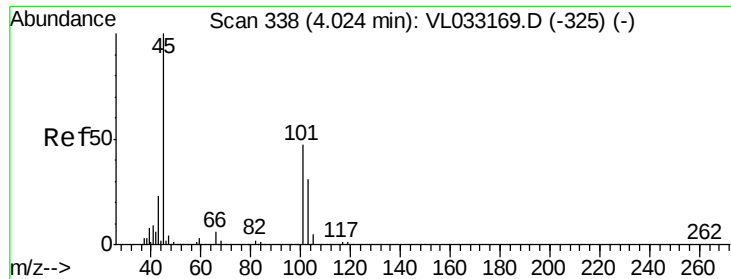


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.375 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033225.D

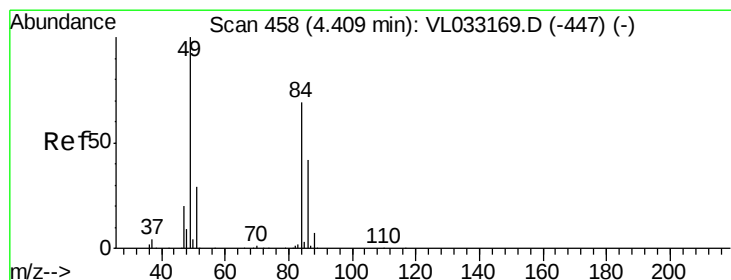
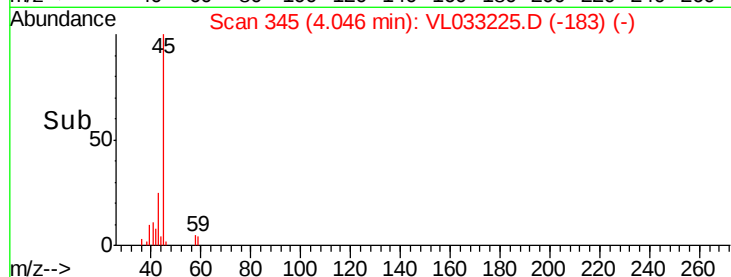
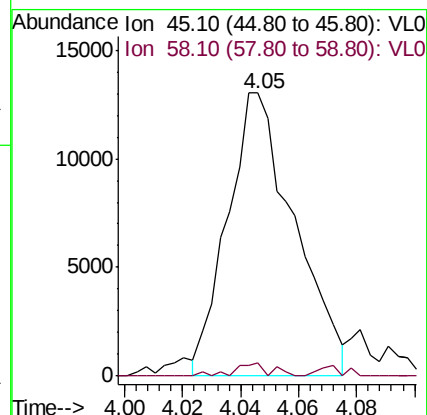
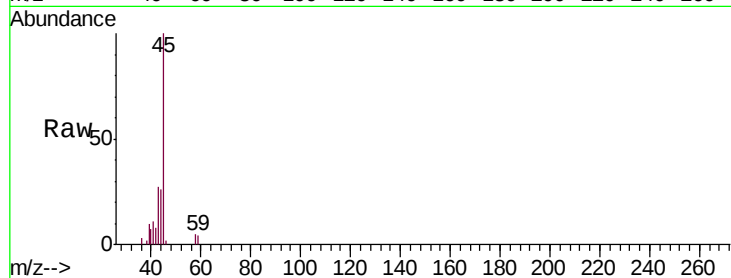
Acq: 15 Feb 2019 10:25

Tgt Ion: 45 Resp: 20849

Ion Ratio Lower Upper

45 100

58 3.8 1.5 2.3#



#20

Methylene Chloride

Concen: 0.378 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

Tgt Ion: 84 Resp: 12336

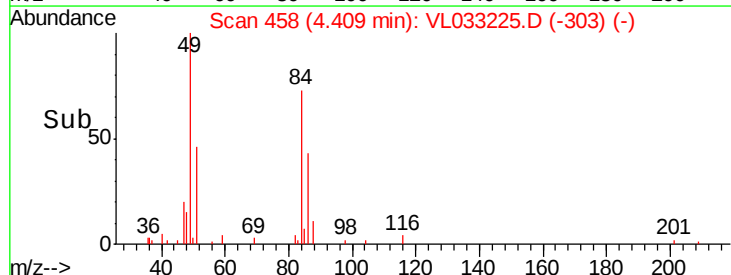
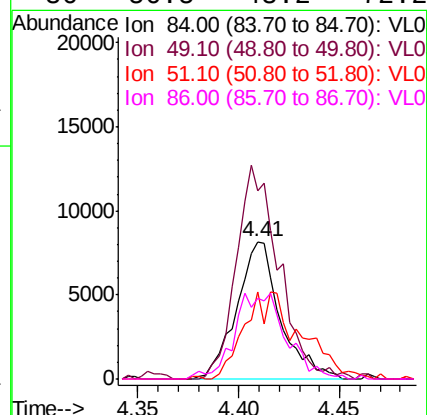
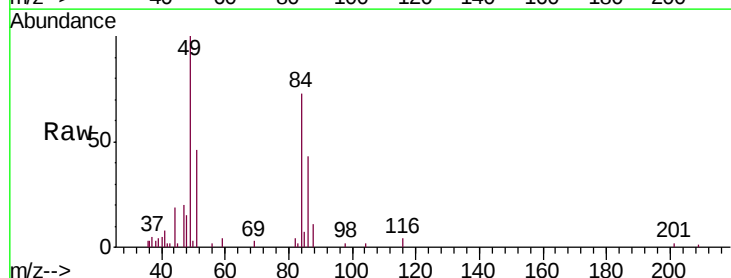
Ion Ratio Lower Upper

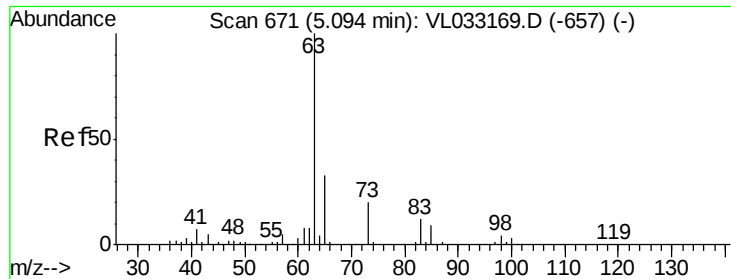
84 100

49 141.5 115.8 173.8

51 61.1 33.0 49.6#

86 56.5 48.2 72.2





#24

1,1-Dichloroethane

Concen: 3.266 ppbv

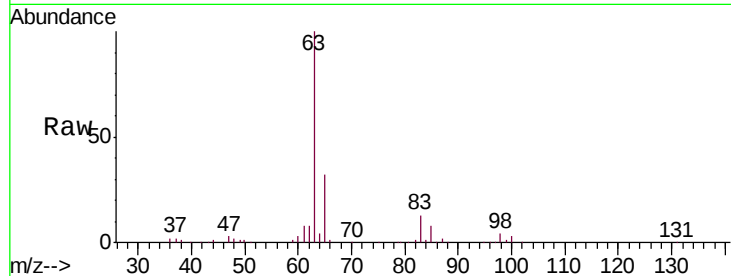
RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

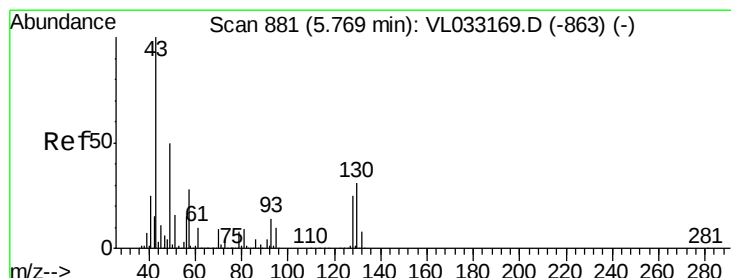
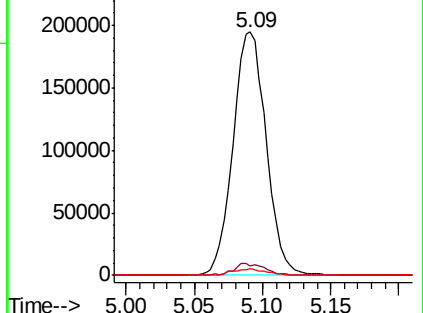
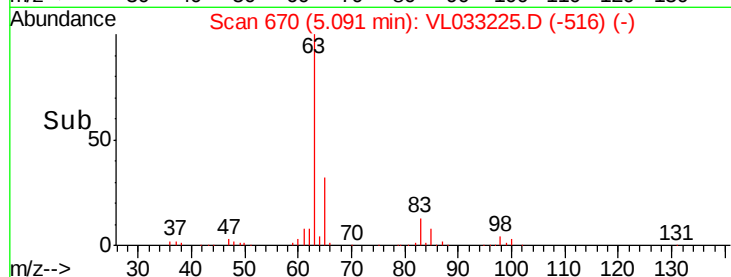
Tgt Ion:	63	Resp:	328410
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.1	6.5
100	2.7	1.4	4.2



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



#25

Ethyl Acetate

Concen: 0.042 ppbv

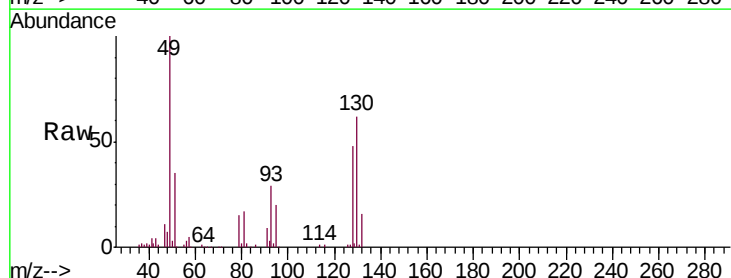
RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

Tgt Ion:	43	Resp:	7799
Ion	Ratio	Lower	Upper
43	100		
45	1.2	7.9	11.9#
61	0.0	7.5	11.3#
70	1.4	5.8	8.8#

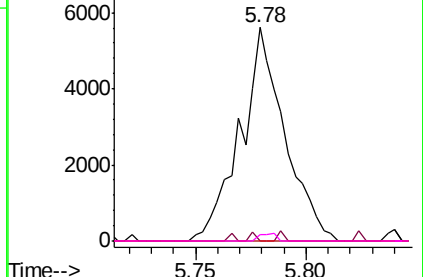
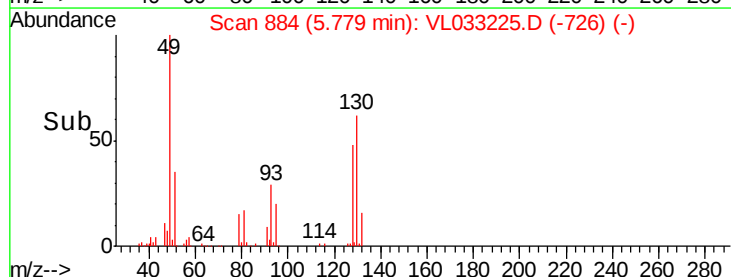


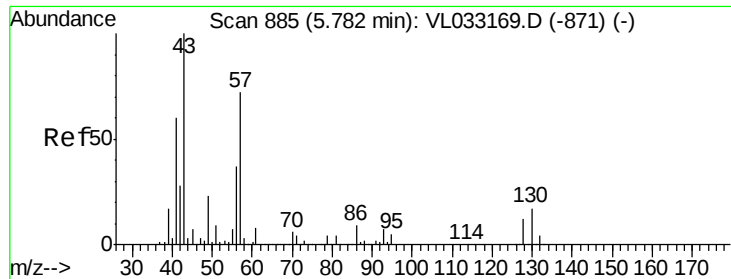
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

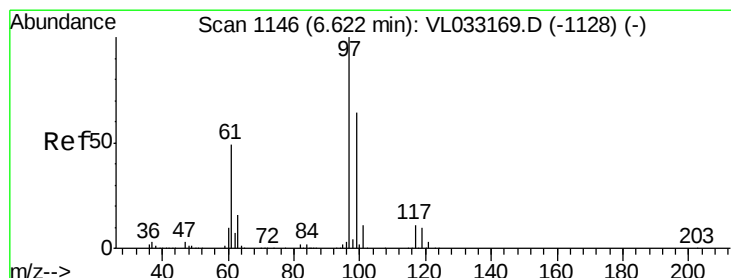
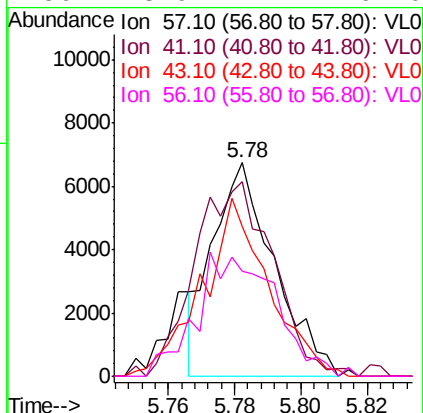
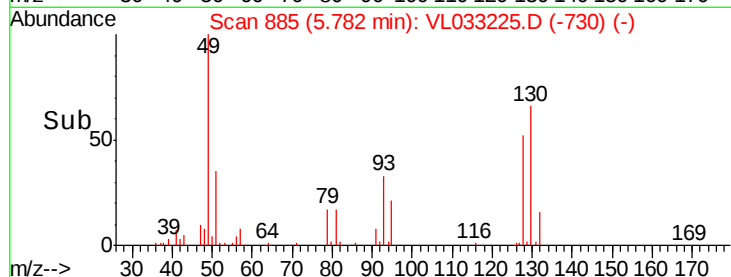
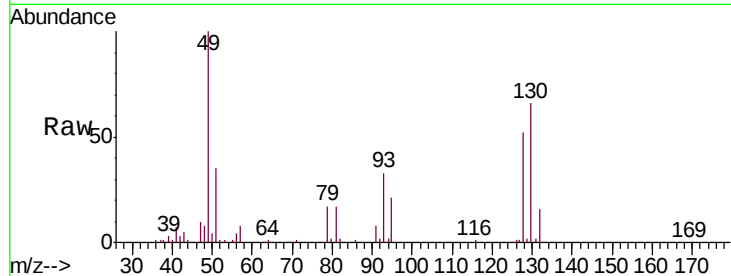
Ion 70.10 (69.80 to 70.80): VL0





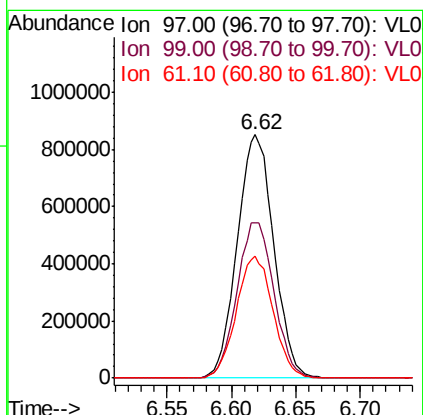
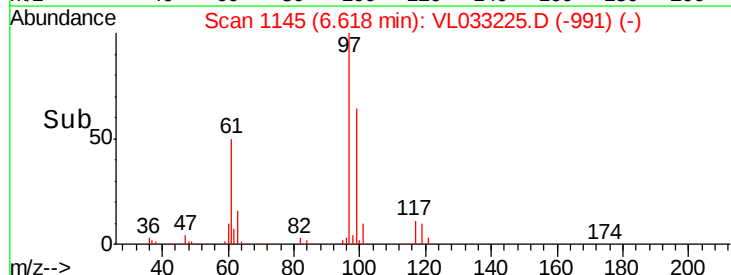
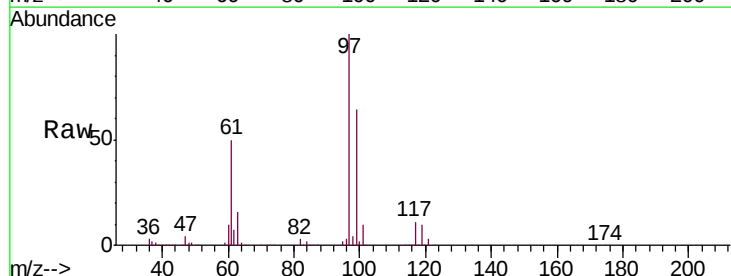
#26
Hexane
Concen: 0.101 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033225.D
Acq: 15 Feb 2019 10:25

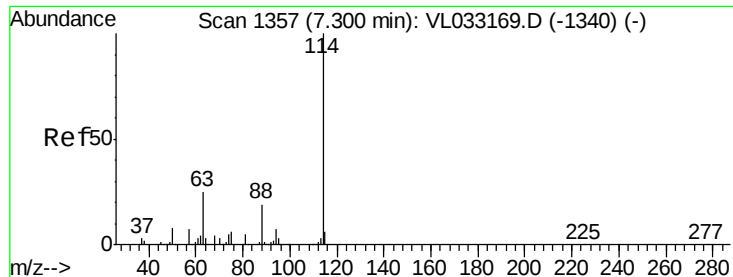
Tgt Ion: 57 Resp: 8725
Ion Ratio Lower Upper
57 100
41 119.0 69.4 104.2#
43 89.4 176.7 265.1#
56 73.9 41.4 62.0#



#32
1,1,1-Trichloroethane
Concen: 11.496 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033225.D
Acq: 15 Feb 2019 10:25

Tgt Ion: 97 Resp: 1679247
Ion Ratio Lower Upper
97 100
99 64.9 51.4 77.2
61 50.4 38.9 58.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

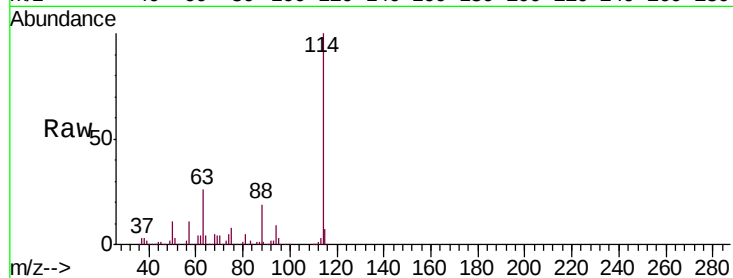
Tgt Ion: 114 Resp: 1928658

Ion Ratio Lower Upper

114 100

63 27.2 20.8 31.2

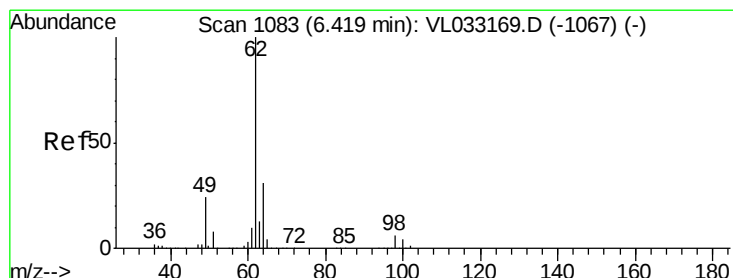
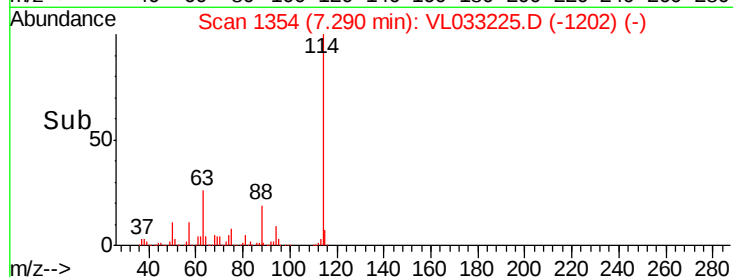
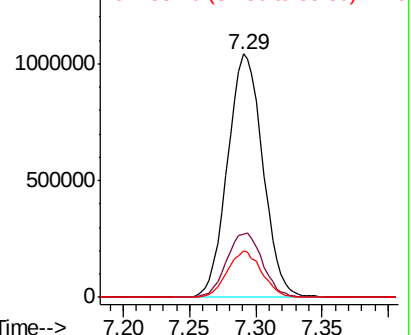
88 18.7 14.6 22.0



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



#37

1,2-Dichloroethane

Concen: 1.097 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.20 min

Lab File: VL033225.D

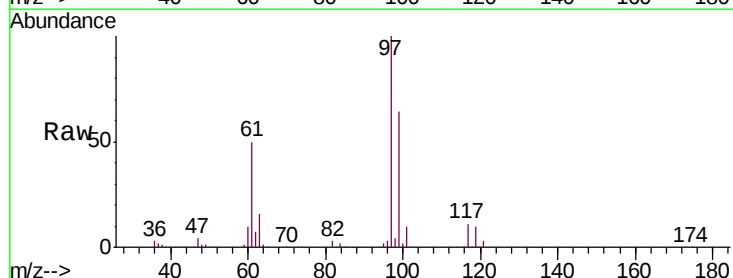
Acq: 15 Feb 2019 10:25

Tgt Ion: 62 Resp: 118862

Ion Ratio Lower Upper

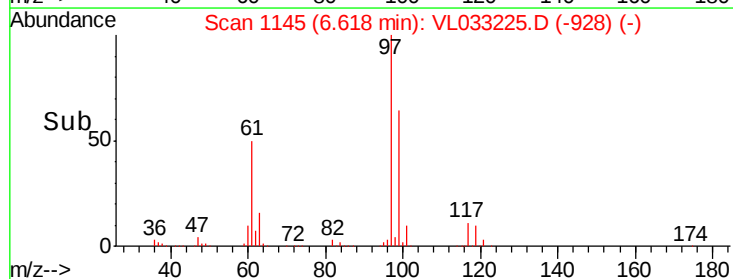
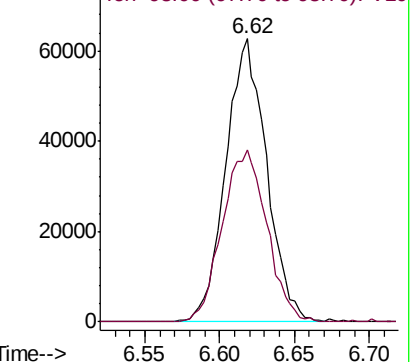
62 100

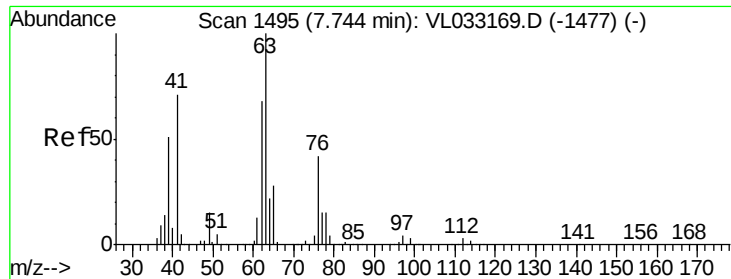
98 66.5 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 6.747 ppbv

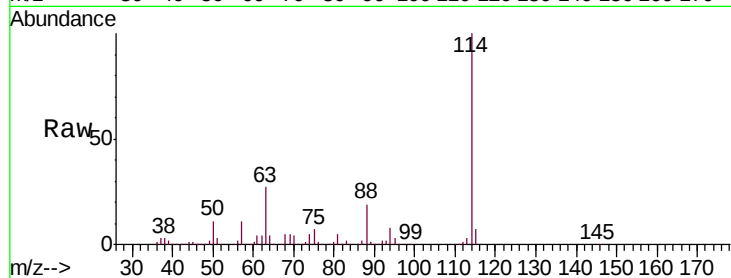
RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

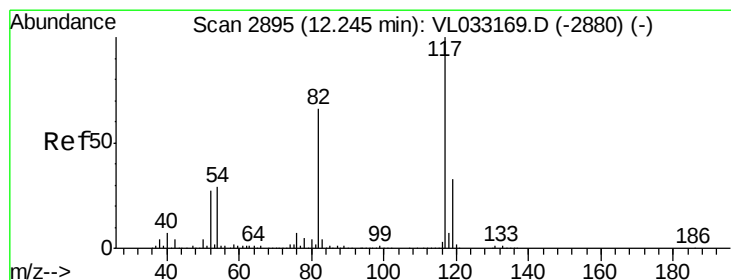
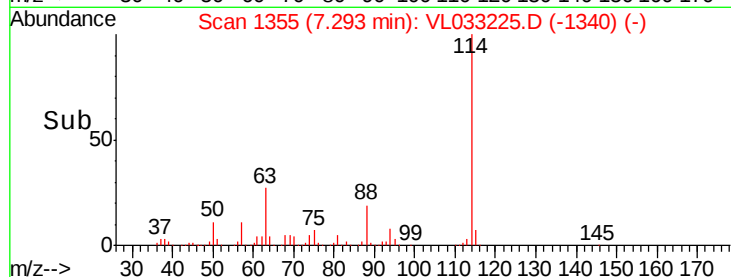
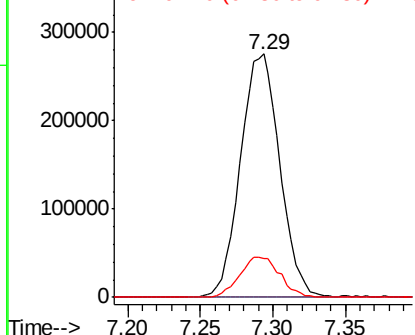
Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

Tgt Ion:	63	Resp:	520814
Ion	Ratio	Lower	Upper
63	100		
41	0.1	56.4	84.6#
62	16.1	54.2	81.4#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

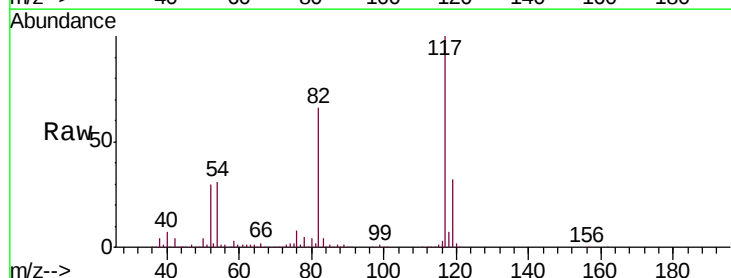
RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

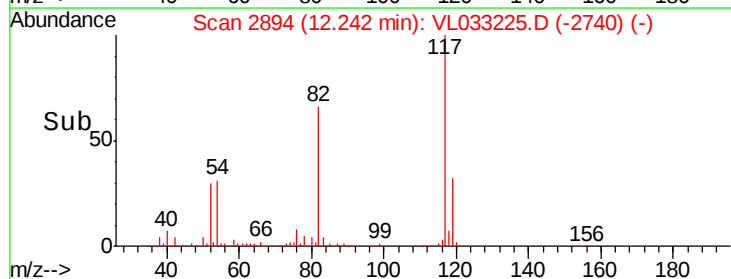
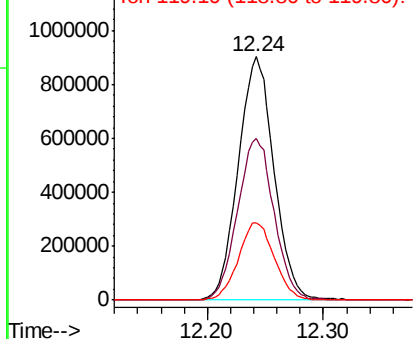
Lab File: VL033225.D

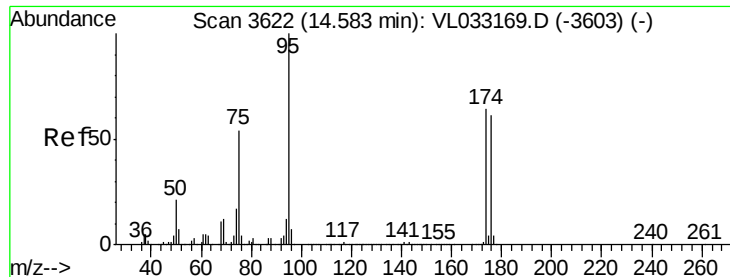
Acq: 15 Feb 2019 10:25

Tgt Ion:	117	Resp:	1933823
Ion	Ratio	Lower	Upper
117	100		
82	68.0	49.5	74.3
119	32.4	24.4	36.6



Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.460 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033225.D

Acq: 15 Feb 2019 10:25

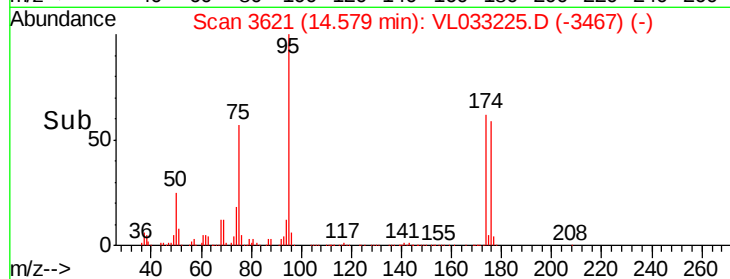
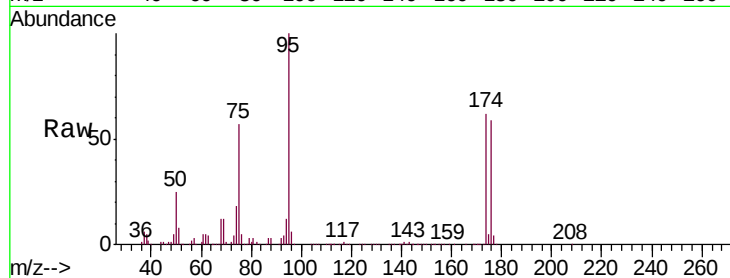
Tgt Ion: 95 Resp: 1557780

Ion Ratio Lower Upper

95 100

174 63.6 51.2 76.8

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

