

Data File : VL033431.D
Acq On : 22 Mar 2019 13:31
Operator : SY/AP
Sample : K1975-04DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Quant Time: Mar 23 02:29:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	721129	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1679643	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1686594	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1322707 10.58 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 105.80%

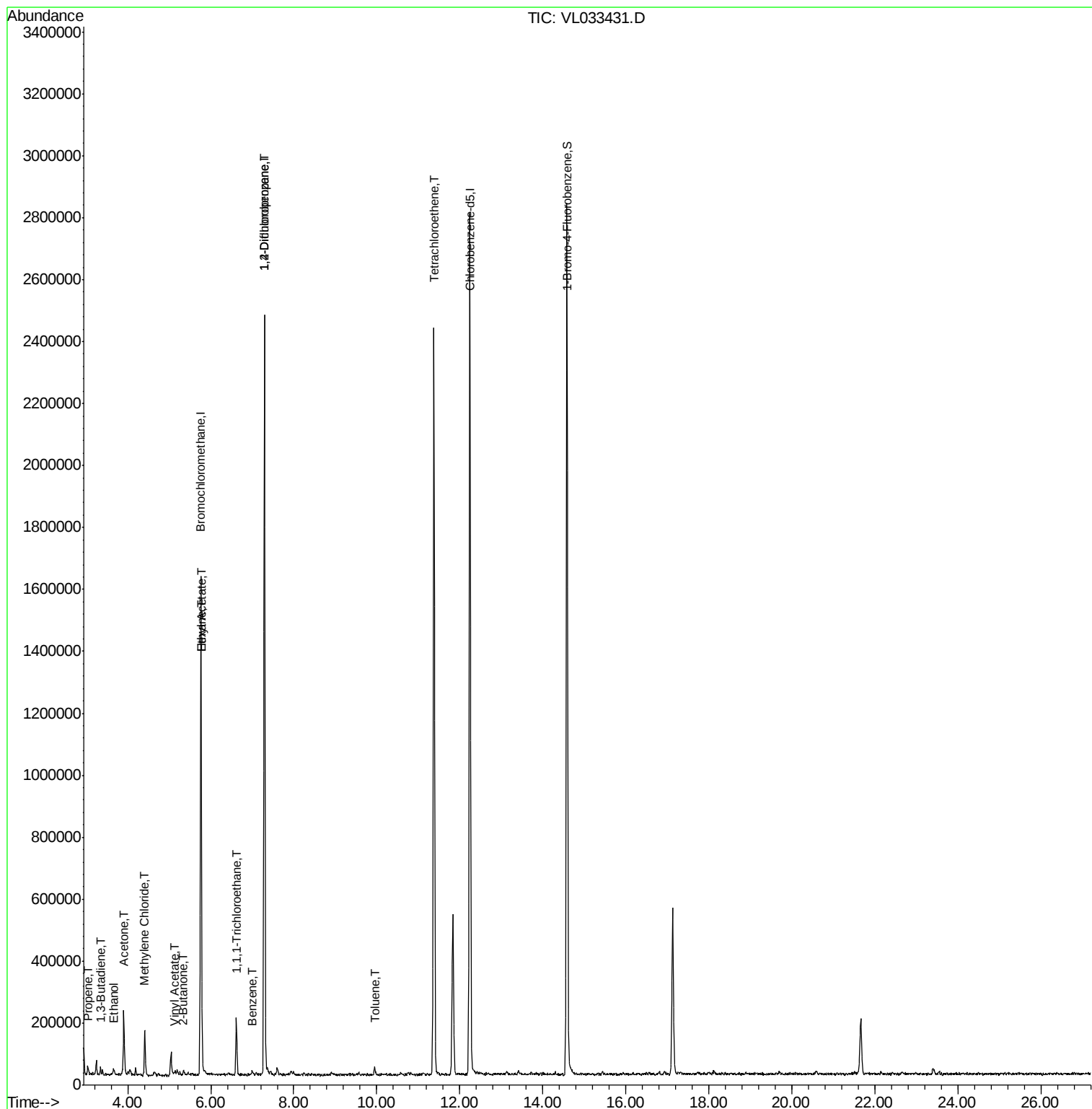
Target Compounds					Qvalue	
9) Propene	3.04	41	4016	0.109	ppbv #	70
13) Ethanol	3.66	45	15789	0.896	ppbv	96
15) Acetone	3.90	43	202476	1.806	ppbv	97
16) 1,3-Butadiene	3.35	39	1247	0.034	ppbv #	2
20) Methylene Chloride	4.41	84	51595	1.411	ppbv	98
23) Vinyl Acetate	5.14	43	5681	0.044	ppbv #	42
25) Ethyl Acetate	5.78	43	32326	0.198	ppbv #	78
26) Hexane	5.78	57	41717	0.573	ppbv #	38
32) 1,1,1-Trichloroethane	6.62	97	105814	0.903	ppbv	98
34) 2-Butanone	5.35	43	14807	0.134	ppbv	99
36) Benzene	7.00	78	6073	0.040	ppbv #	91
39) 1,2-Dichloropropane	7.29	63	454677	8.077	ppbv #	23
52) Tetrachloroethene	11.37	164	570163	9.105	ppbv	98
53) Toluene	9.95	91	17583	0.103	ppbv	94

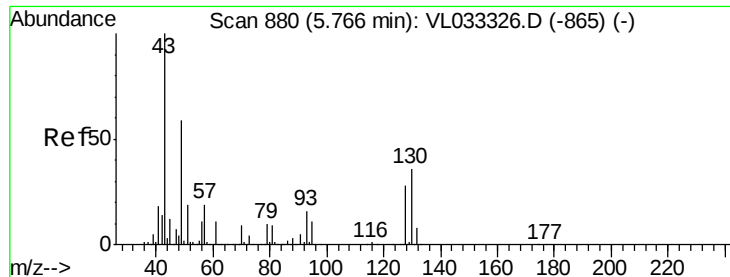
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033431.D

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MSVOA_L

ClientSampleID :

SV2DL

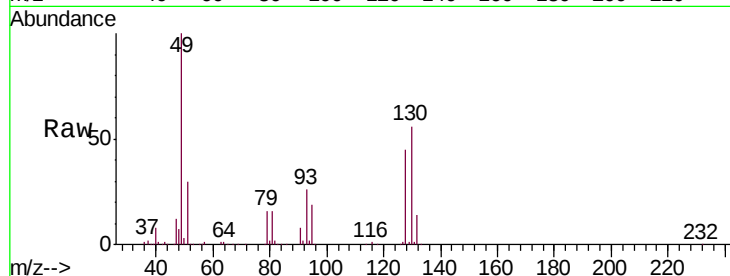
Tgt Ion: 49 Resp: 721129

Ion Ratio Lower Upper

49 100

128 47.2 23.5 70.6

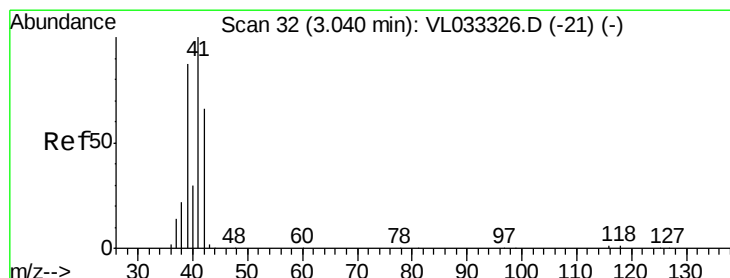
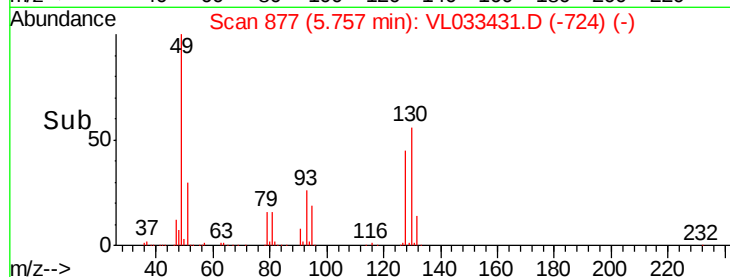
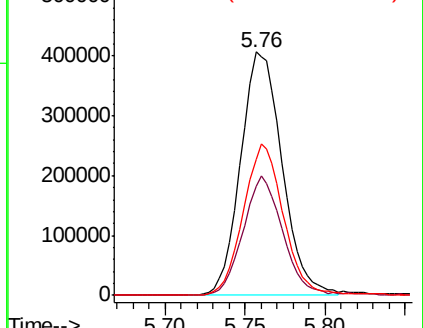
130 60.9 30.1 90.3



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



#9

Propene

Concen: 0.109 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033431.D

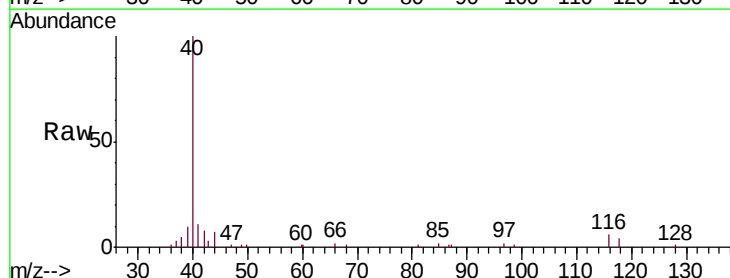
Acq: 22 Mar 2019 13:31

Tgt Ion: 41 Resp: 4016

Ion Ratio Lower Upper

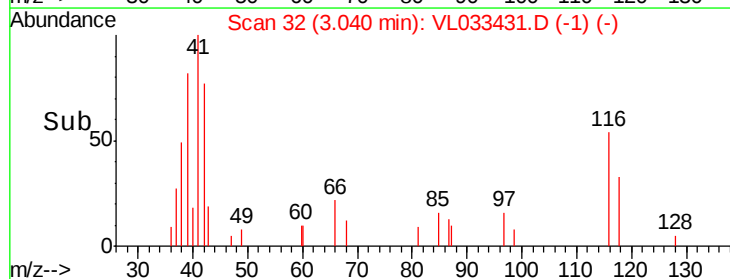
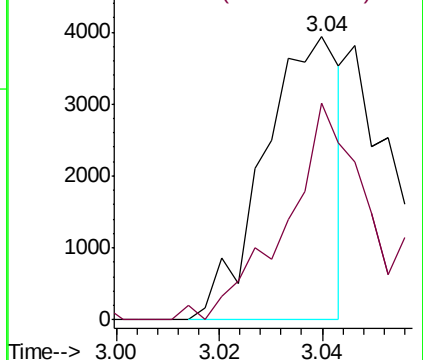
41 100

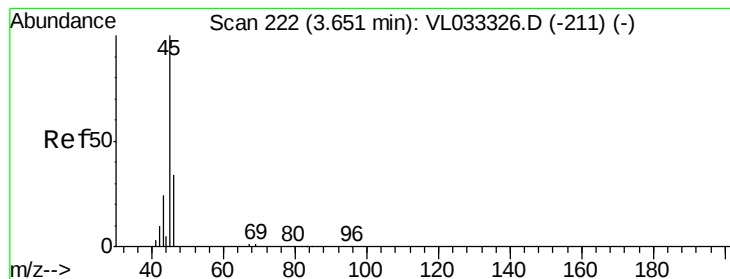
42 93.6 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.896 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Instrument :

MSVOA_L

ClientSampled :

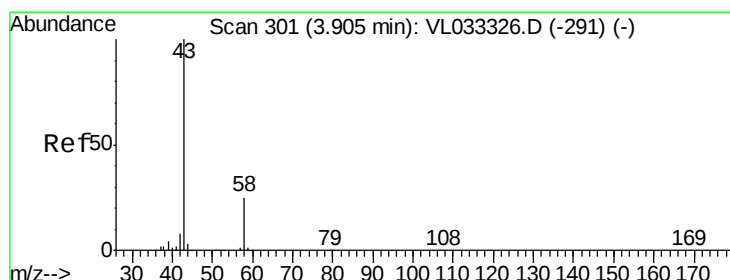
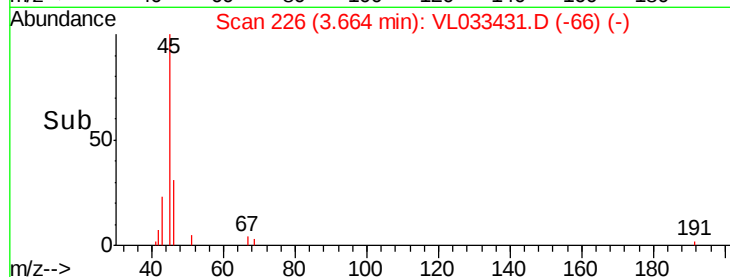
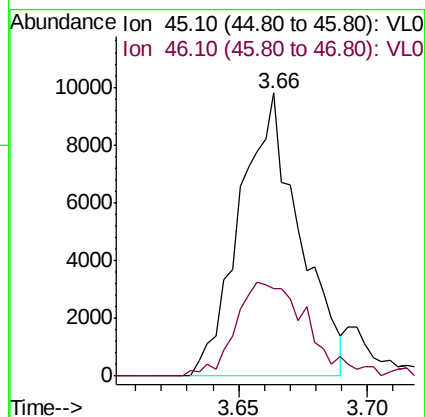
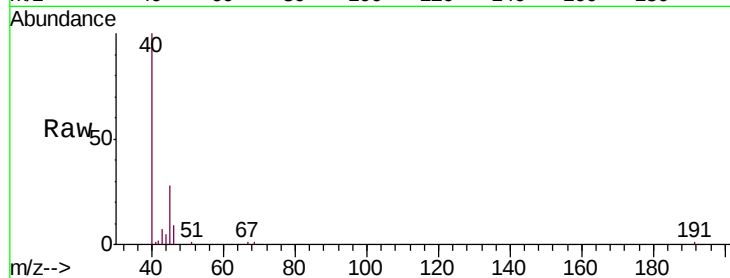
SV2DL

Tgt Ion: 45 Resp: 15789

Ion Ratio Lower Upper

45 100

46 39.7 14.9 59.7



#15

Acetone

Concen: 1.806 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033431.D

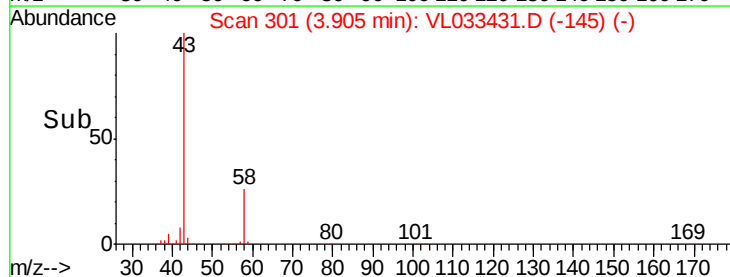
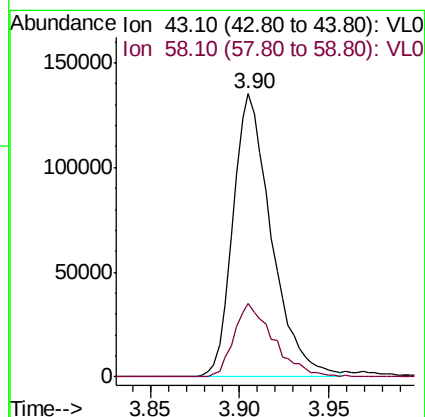
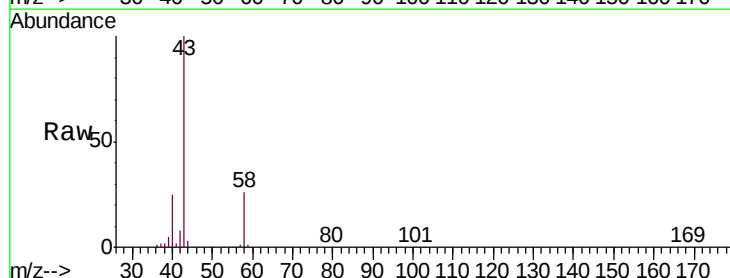
Acq: 22 Mar 2019 13:31

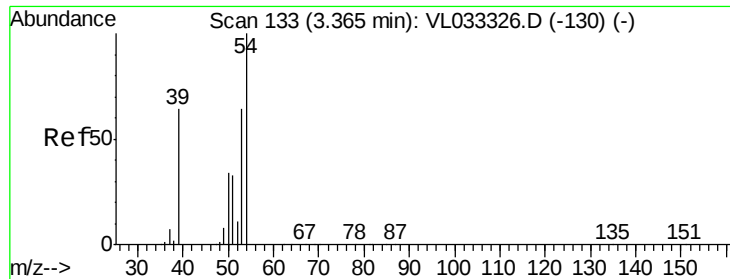
Tgt Ion: 43 Resp: 202476

Ion Ratio Lower Upper

43 100

58 27.1 20.4 30.6





#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.01 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Instrument :

MSVOA_L

ClientSampleId :

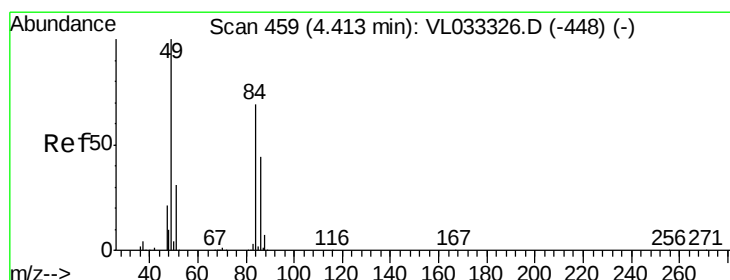
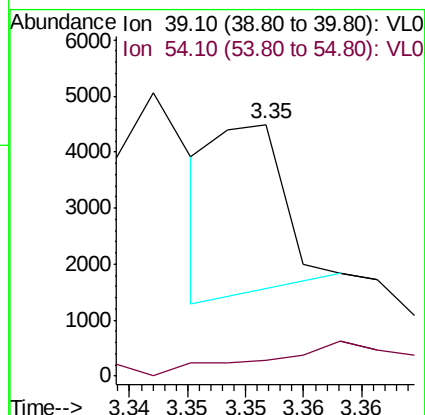
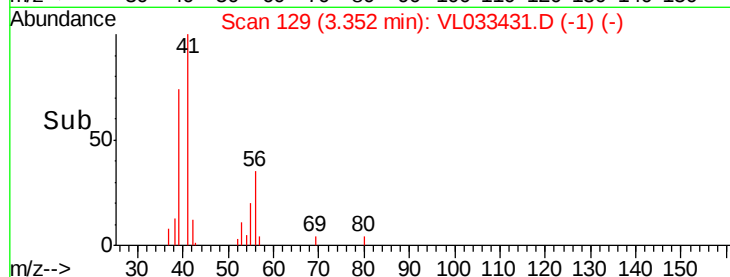
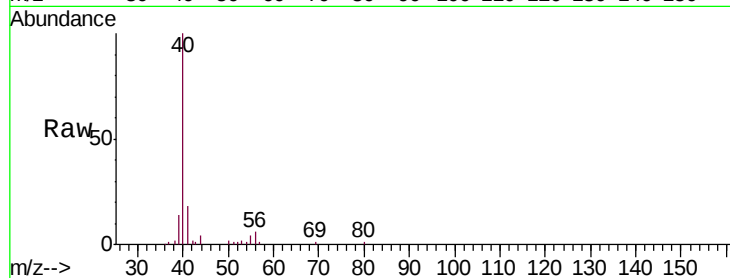
SV2DL

Tgt Ion: 39 Resp: 1247

Ion Ratio Lower Upper

39 100

54 0.0 76.8 115.2#



#20

Methylene Chloride

Concen: 1.411 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Tgt Ion: 84 Resp: 51595

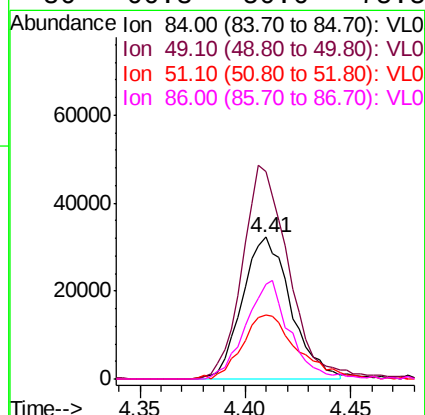
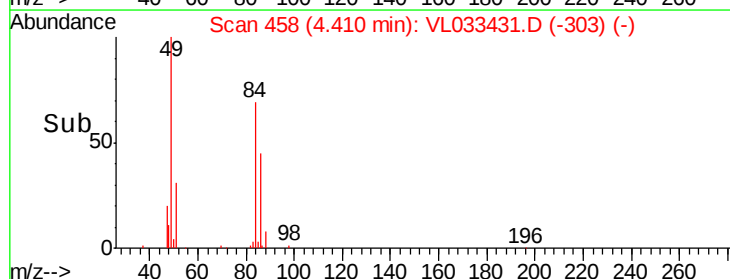
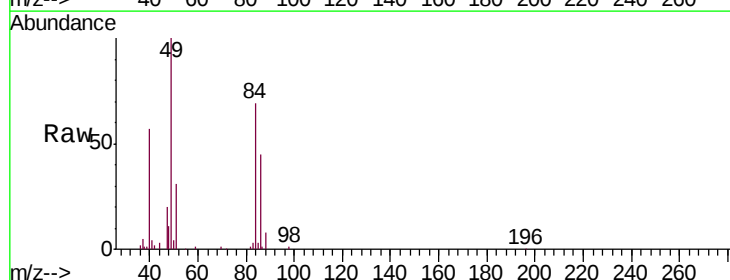
Ion Ratio Lower Upper

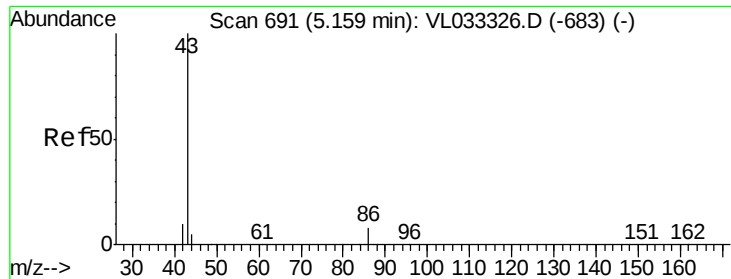
84 100

49 145.7 115.4 173.0

51 44.9 35.8 53.6

86 66.3 50.6 75.8





#23

Vinyl Acetate

Concen: 0.044 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.02 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tgt Ion: 43 Resp: 5681

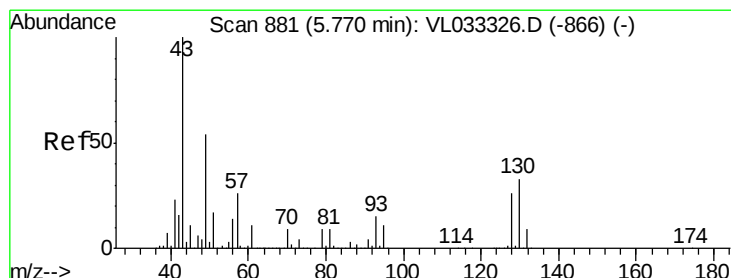
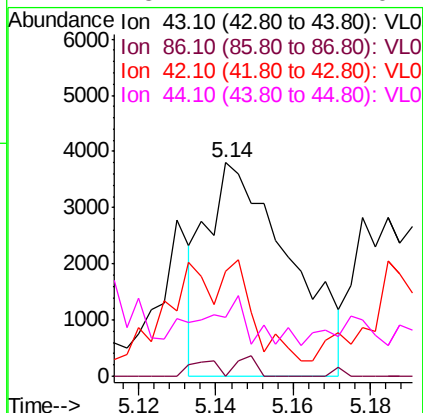
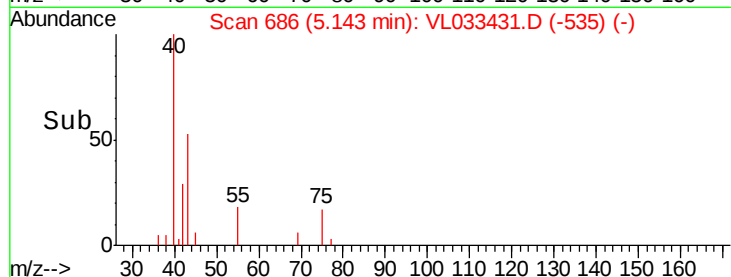
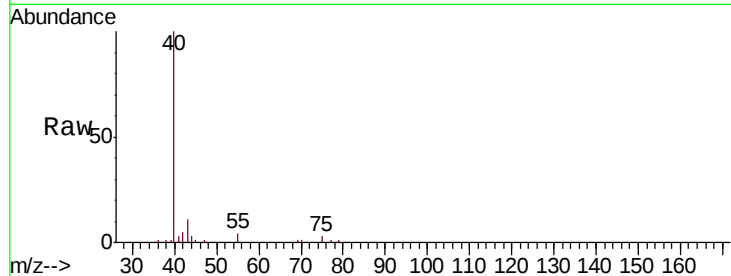
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.2#

42 41.5 8.1 12.1#

44 25.2 4.1 6.1#



#25

Ethyl Acetate

Concen: 0.198 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Tgt Ion: 43 Resp: 32326

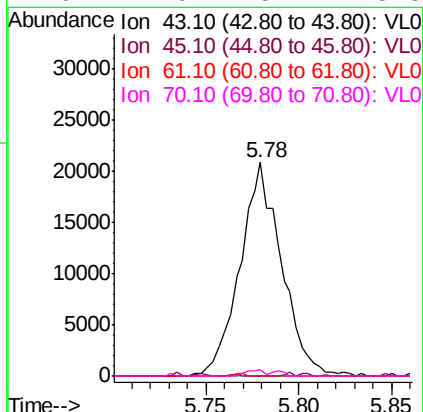
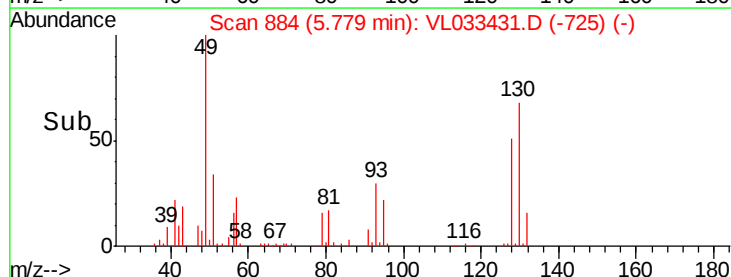
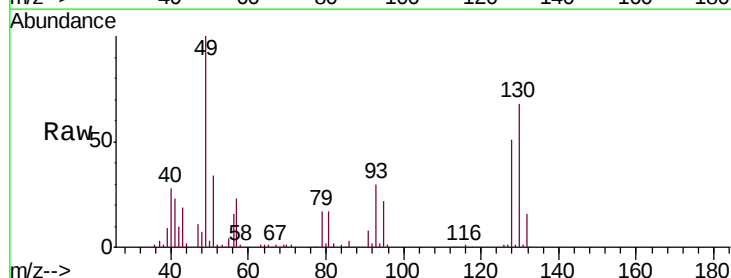
Ion Ratio Lower Upper

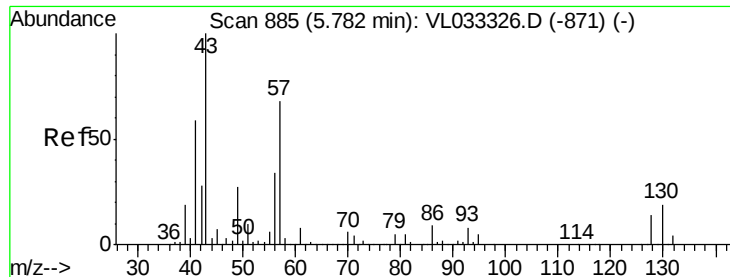
43 100

45 0.7 7.9 11.9#

61 0.0 7.4 11.2#

70 2.0 5.7 8.5#

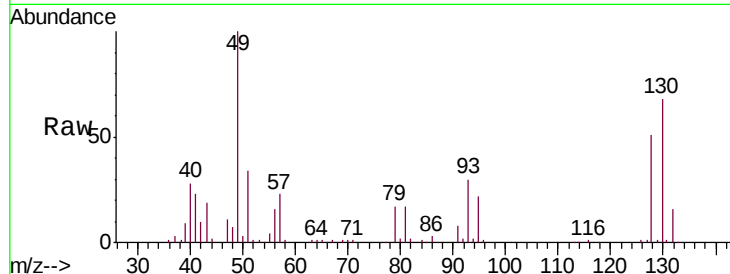




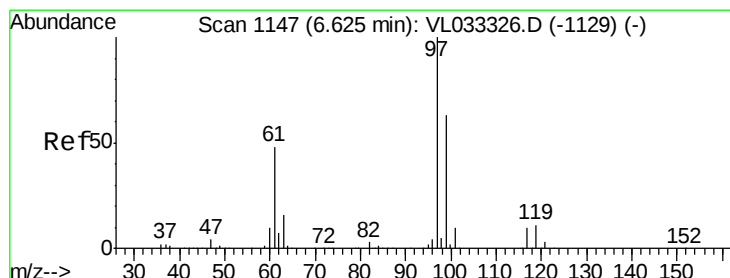
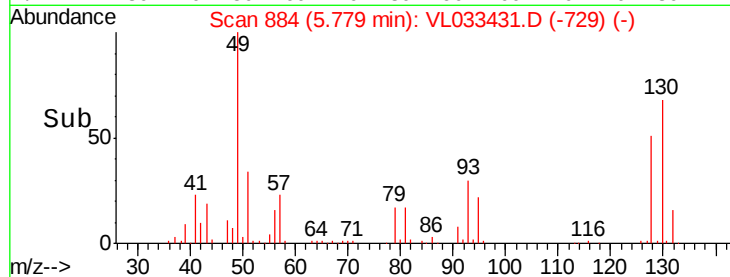
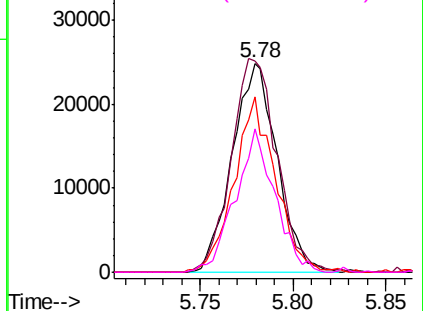
#26
Hexane
Concen: 0.573 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033431.D
Acq: 22 Mar 2019 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 57 Resp: 41717
Ion Ratio Lower Upper
57 100
41 104.7 70.5 105.7
43 77.9 181.8 272.8#
56 61.2 42.2 63.2

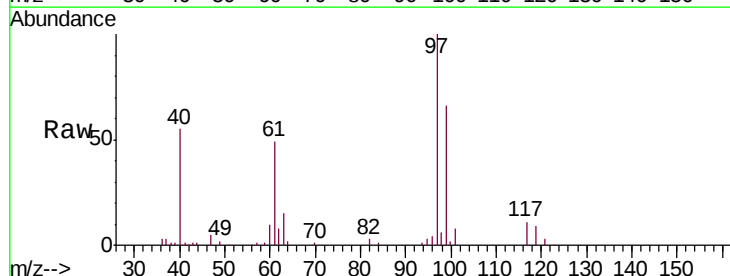


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

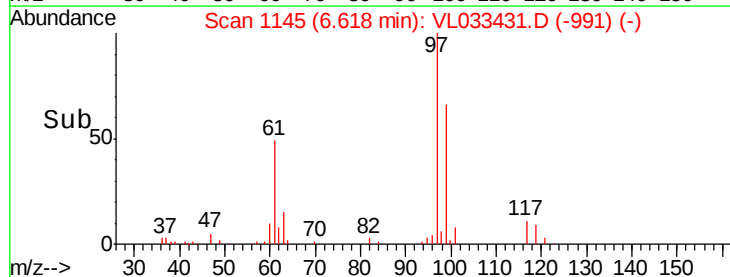
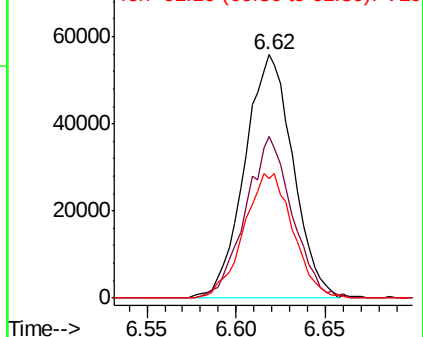


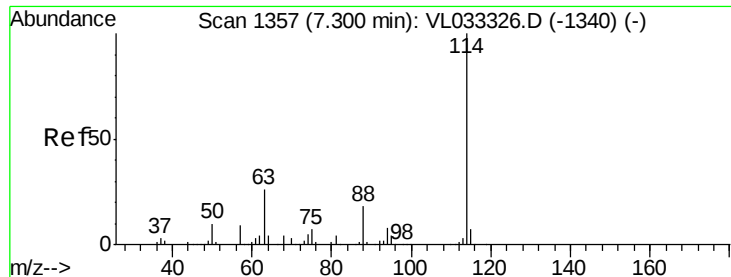
#32
1,1,1-Trichloroethane
Concen: 0.903 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033431.D
Acq: 22 Mar 2019 13:31

Tgt Ion: 97 Resp: 105814
Ion Ratio Lower Upper
97 100
99 64.1 51.0 76.6
61 52.0 39.3 58.9



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

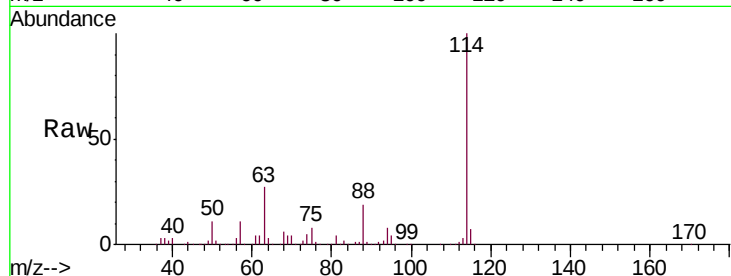




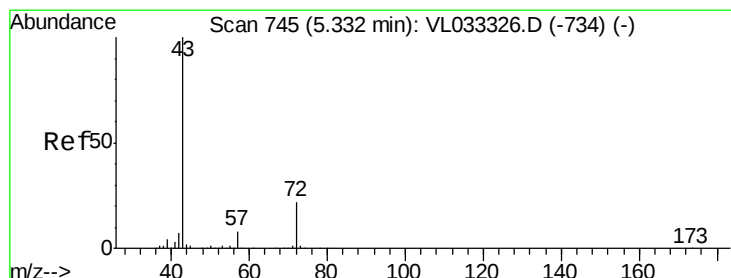
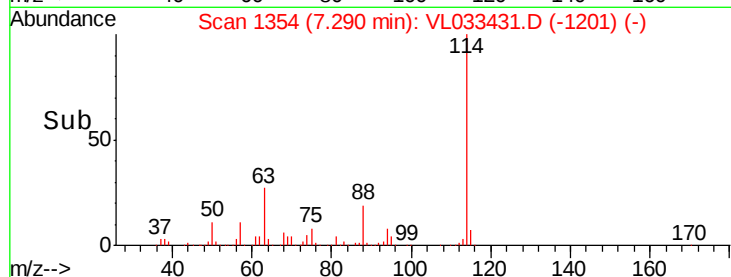
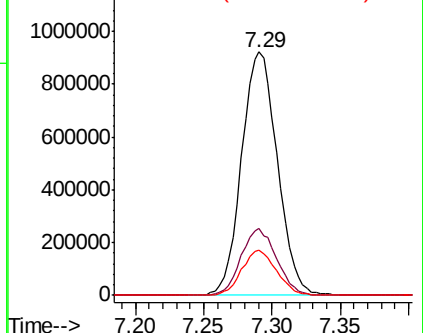
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033431.D
 Acq: 22 Mar 2019 13:31

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tgt Ion: 114 Resp: 1679643
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.4 32.2
 88 18.1 14.5 21.7

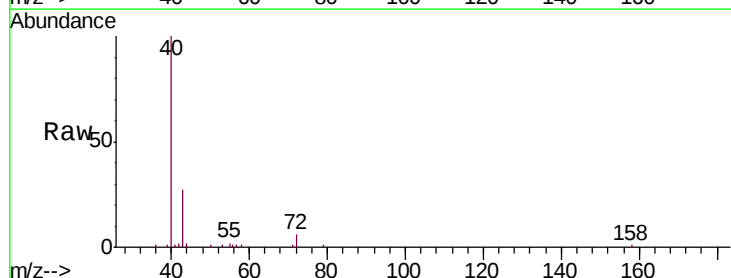


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

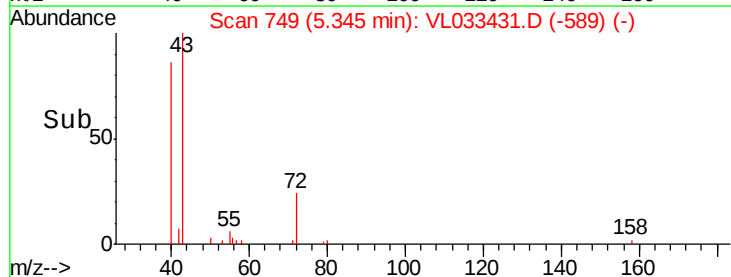
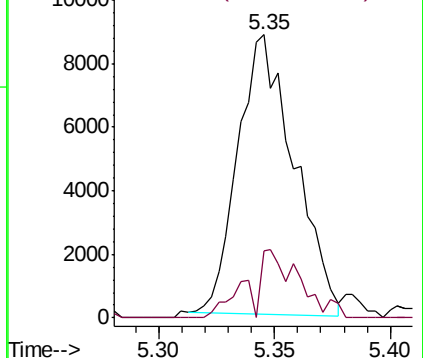


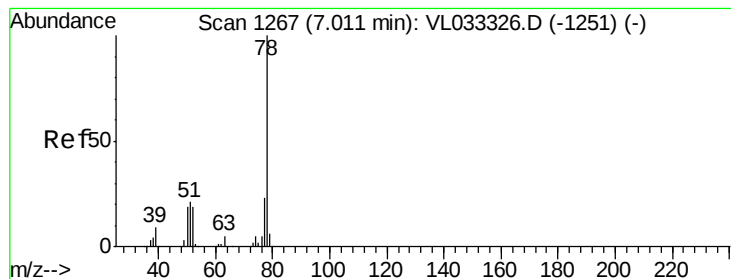
#34
 2-Butanone
 Concen: 0.134 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL033431.D
 Acq: 22 Mar 2019 13:31

Tgt Ion: 43 Resp: 14807
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.040 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Instrument :

MSVOA_L

ClientSampleID :

SV2DL

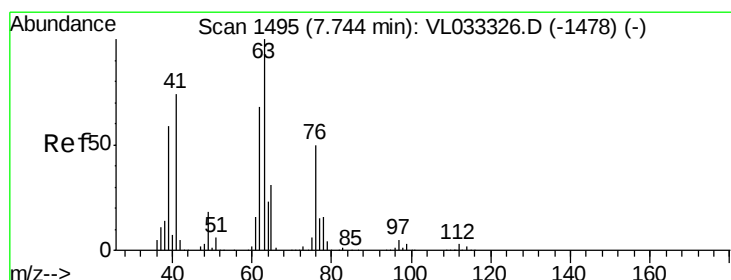
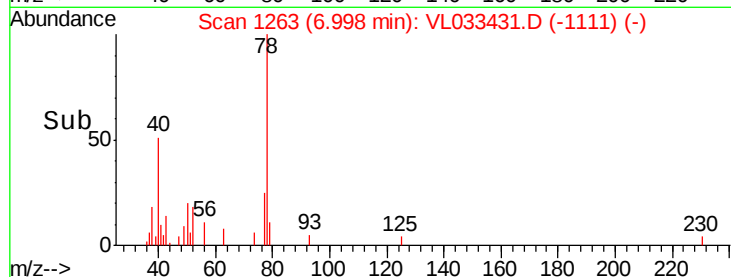
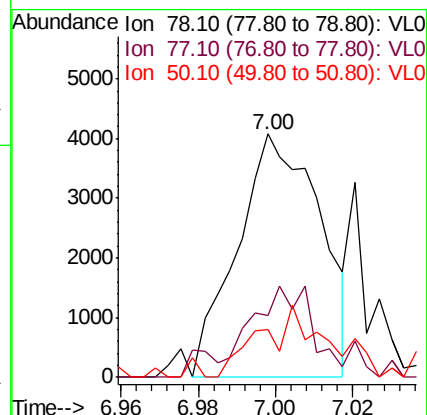
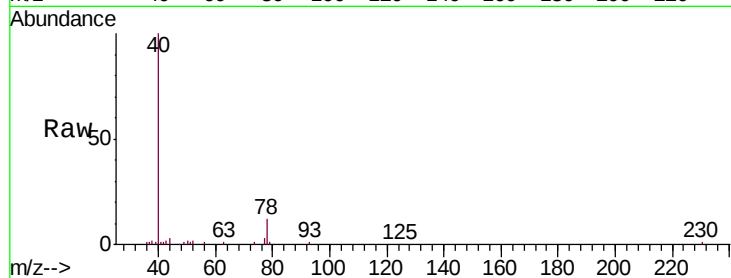
Tgt Ion: 78 Resp: 6073

Ion Ratio Lower Upper

78 100

77 21.0 18.1 27.1

50 11.7 15.2 22.8#



#39

1,2-Dichloropropane

Concen: 8.077 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

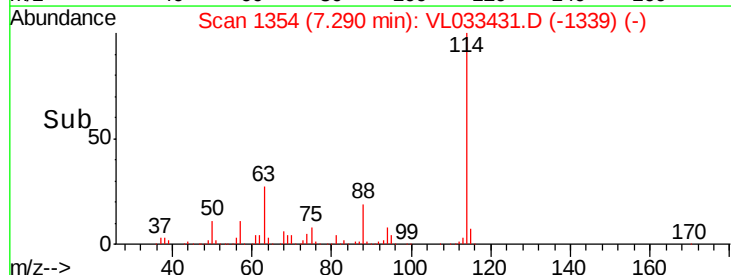
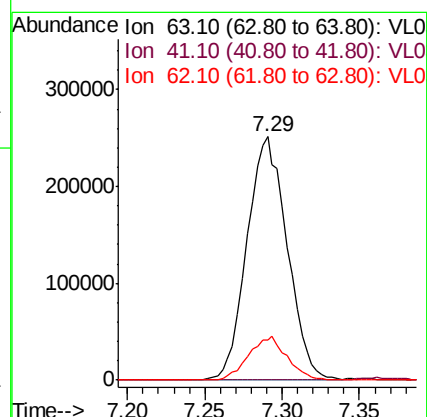
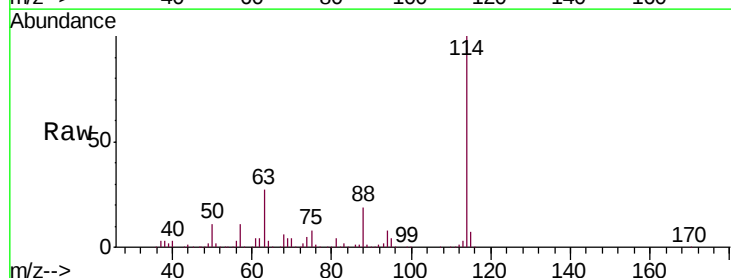
Tgt Ion: 63 Resp: 454677

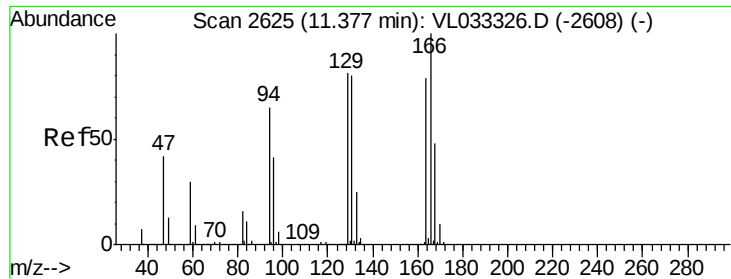
Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 16.3 54.7 82.1#





#52

Tetrachloroethene

Concen: 9.105 ppbv

RT: 11.37 min Scan# 2624

Delta R.T. -0.00 min

Lab File: VL033431.D

Acq: 22 Mar 2019 13:31

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:164 Resp: 570163

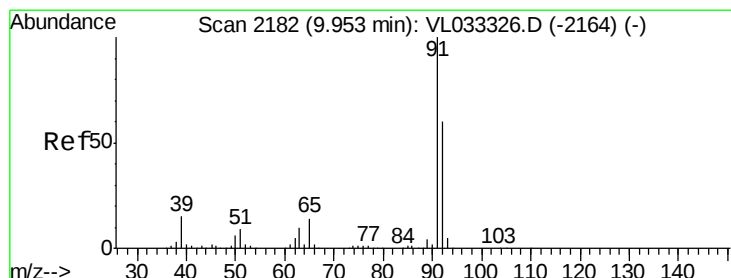
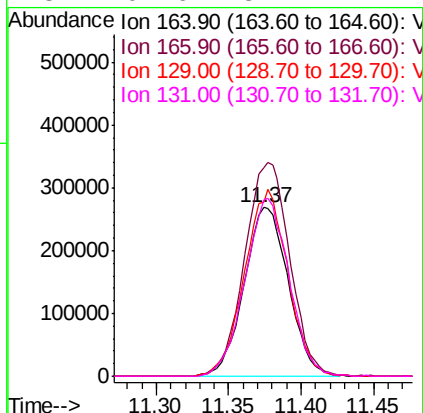
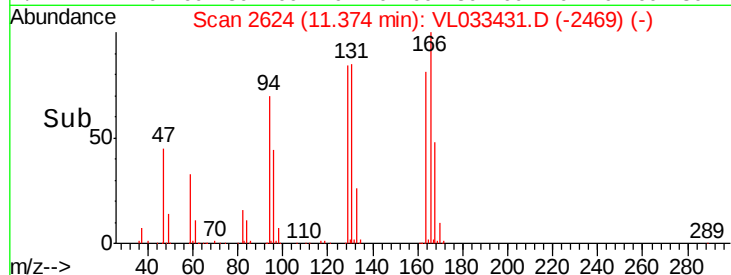
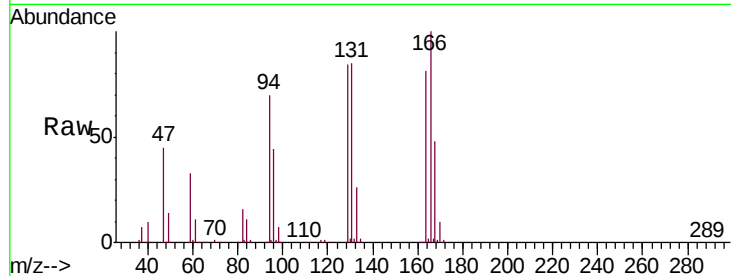
Ion Ratio Lower Upper

164 100

166 123.3 101.5 152.3

129 102.9 82.2 123.2

131 104.6 81.1 121.7



#53

Toluene

Concen: 0.103 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033431.D

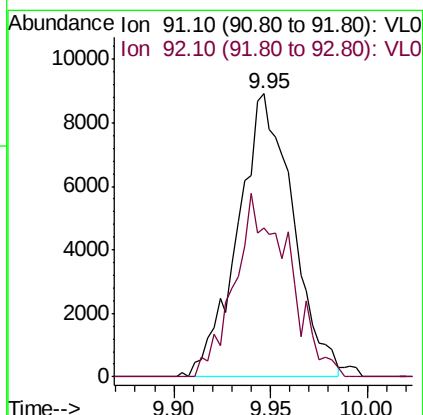
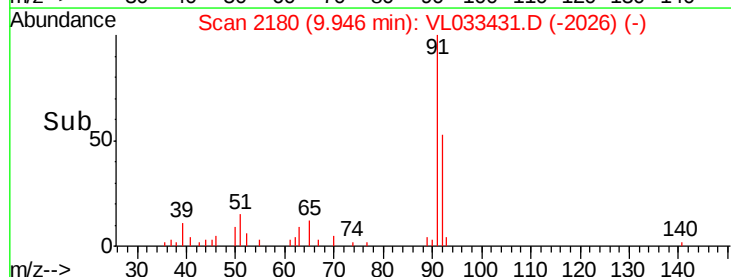
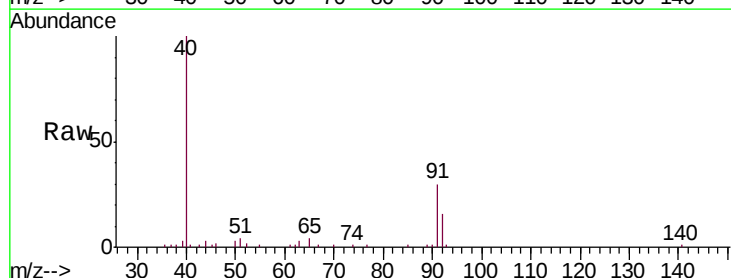
Acq: 22 Mar 2019 13:31

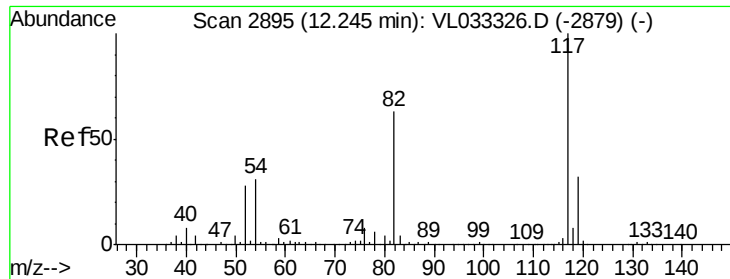
Tgt Ion: 91 Resp: 17583

Ion Ratio Lower Upper

91 100

92 63.7 47.4 71.0

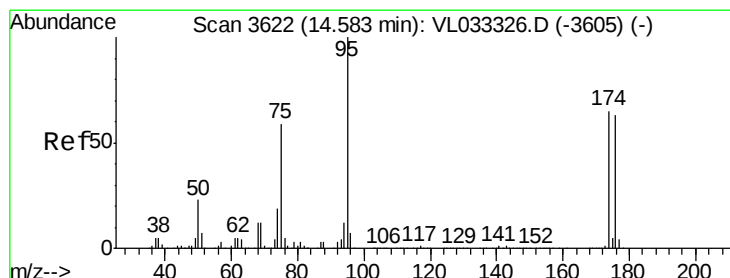
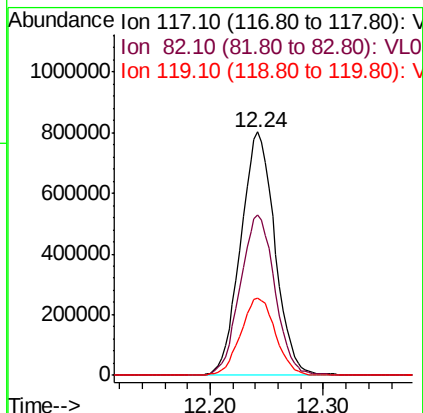
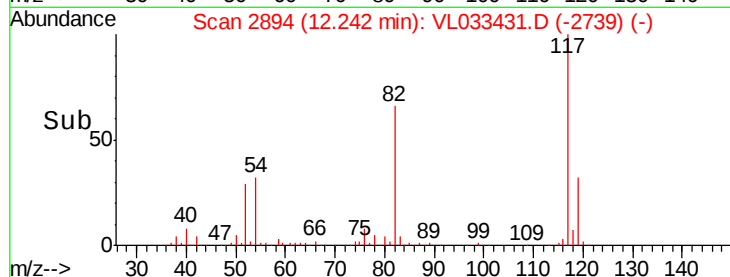
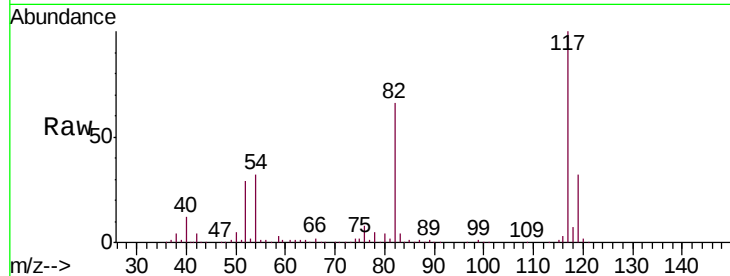




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033431.D
Acq: 22 Mar 2019 13:31

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion: 117 Resp: 1686594
Ion Ratio Lower Upper
117 100
82 67.3 53.4 80.2
119 32.5 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.584 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. 0.00 min
Lab File: VL033431.D
Acq: 22 Mar 2019 13:31

Tgt Ion: 95 Resp: 1322707
Ion Ratio Lower Upper
95 100
174 65.2 51.5 77.3
175 4.8 3.8 5.6

