

Data File : VL033093.D
Acq On : 16 Jan 2019 15:41
Operator : SY/AP
Sample : K1130-01DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Quant Time: Jan 17 01:53:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 04 16:09:05 2019
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1053675	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2501017	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2267072	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.57 95 1768669 10.18 ppbv -0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.80%

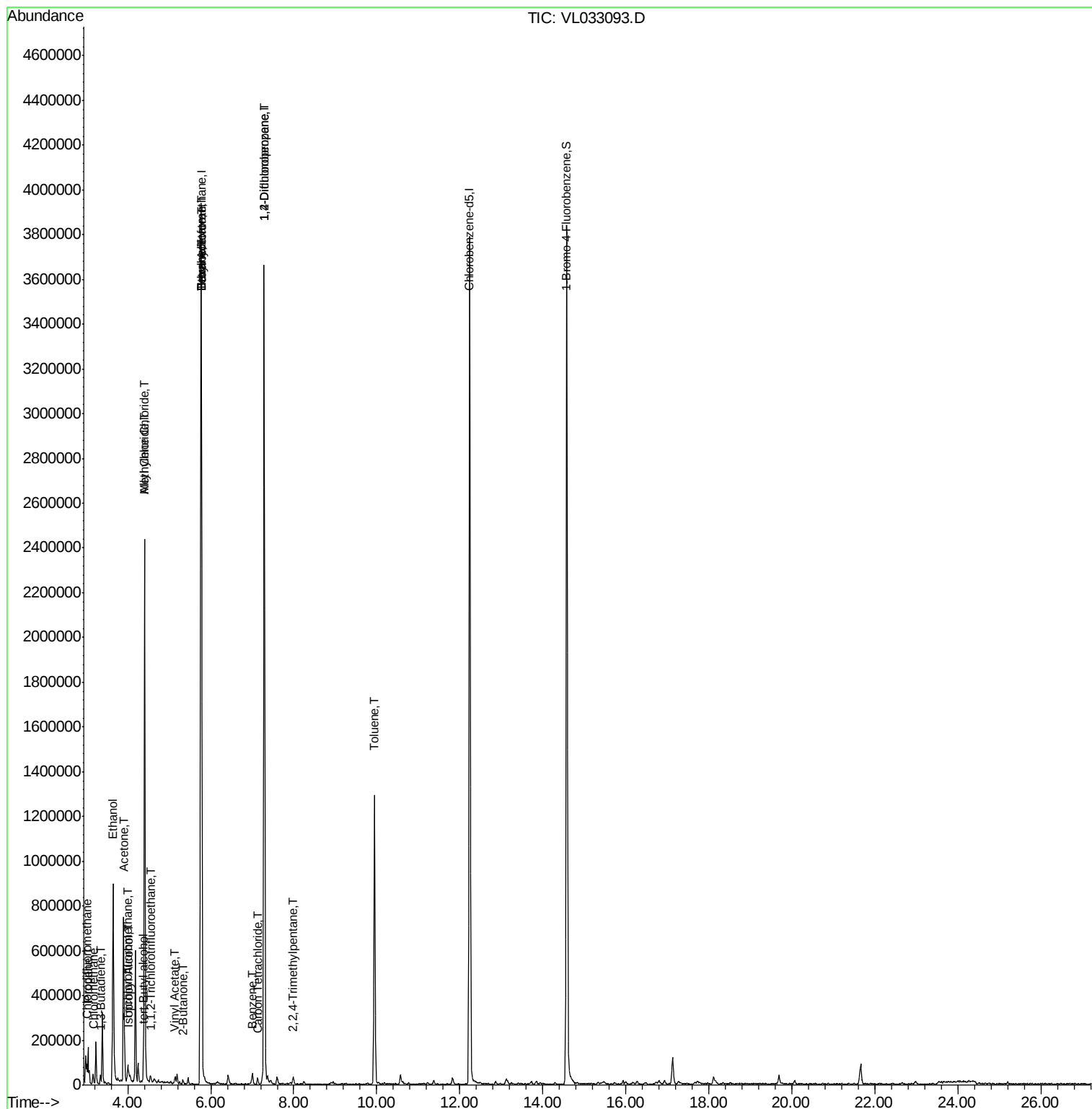
Target Compounds						Qvalue
3) Chlorodifluoromethane	3.01	51	146741	1.230	ppbv #	81
4) Chloromethane	3.17	50	37320	0.546	ppbv	95
9) Propene	3.04	41	35088	0.787	ppbv	85
11) Trichlorofluoromethane	4.00	101	43902	0.203	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	9189	0.067	ppbv	95
13) Ethanol	3.64	45	966505	54.395	ppbv	97
15) Acetone	3.90	43	738276	5.062	ppbv	100
16) 1,3-Butadiene	3.34	39	4675	0.085	ppbv	98
17) tert-Butyl alcohol	4.37	59	2165	0.070	ppbv #	74
19) Isopropyl Alcohol	4.03	45	19745	0.197	ppbv #	1
20) Methylene Chloride	4.40	84	810392	13.329	ppbv	98
21) Allyl Chloride	4.40	41	28201	0.312	ppbv #	31
23) Vinyl Acetate	5.15	43	6625	0.036	ppbv #	65
25) Ethyl Acetate	5.78	43	771224	3.128	ppbv #	77
26) Hexane	5.78	57	1136674	9.792	ppbv #	43
34) 2-Butanone	5.33	43	18268	0.126	ppbv	99
35) Carbon Tetrachloride	7.13	117	11268	0.052	ppbv #	88
36) Benzene	7.00	78	36445	0.178	ppbv #	91
39) 1,2-Dichloropropane	7.29	63	622115	8.083	ppbv #	23
41) Tetrahydrofuran	5.78	42	419989	5.678	ppbv #	48
44) 2,2,4-Trimethylpentane	7.99	57	13666	0.039	ppbv #	30
53) Toluene	9.94	91	911050	4.150	ppbv	99

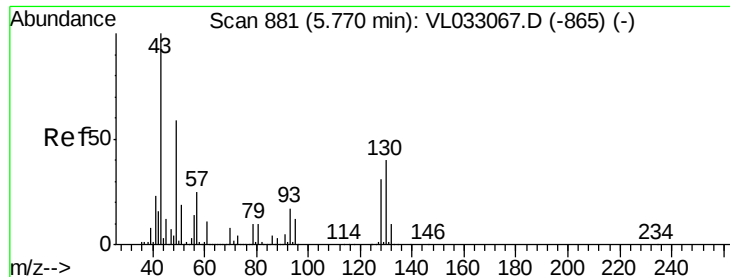
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

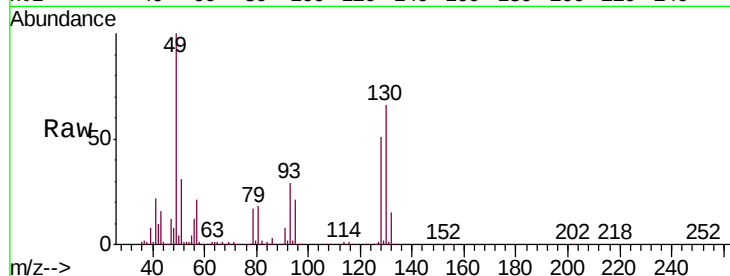
Tgt Ion: 49 Resp: 1053675

Ion Ratio Lower Upper

49 100

128 52.4 26.2 78.5

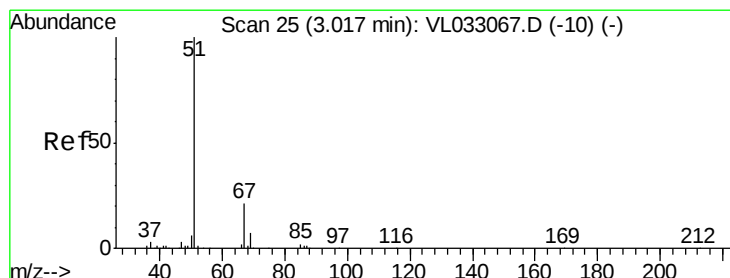
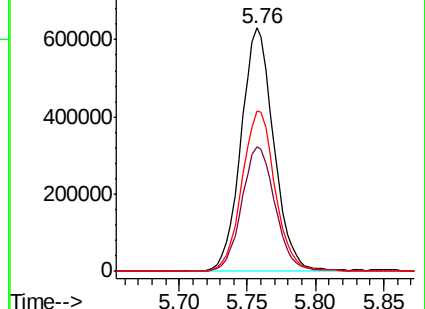
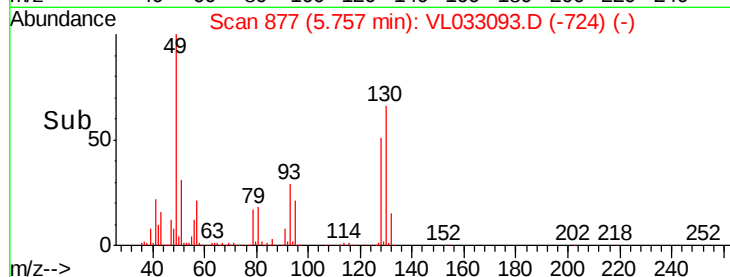
130 66.7 33.6 100.6



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: 1.230 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033093.D

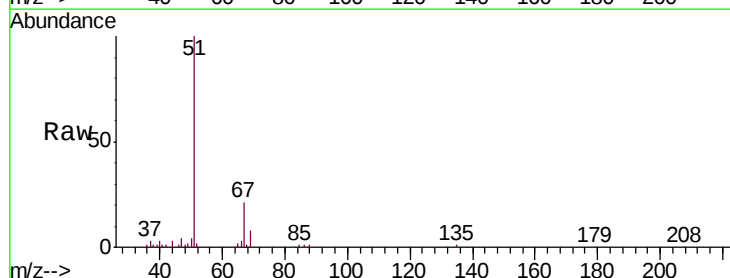
Acq: 16 Jan 2019 15:41

Tgt Ion: 51 Resp: 146741

Ion Ratio Lower Upper

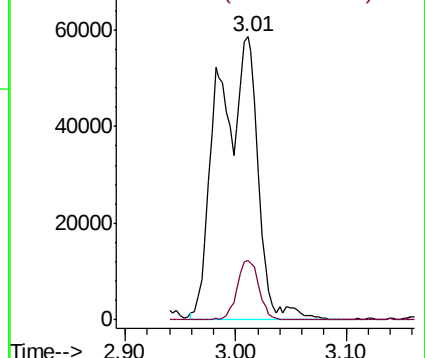
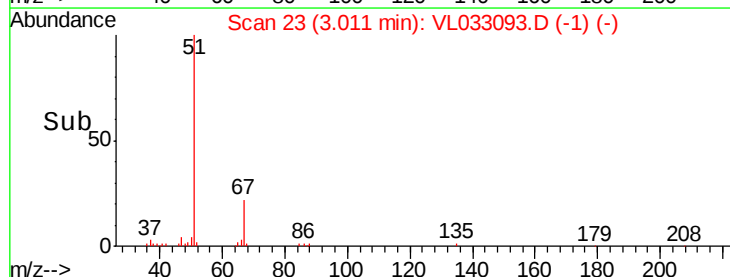
51 100

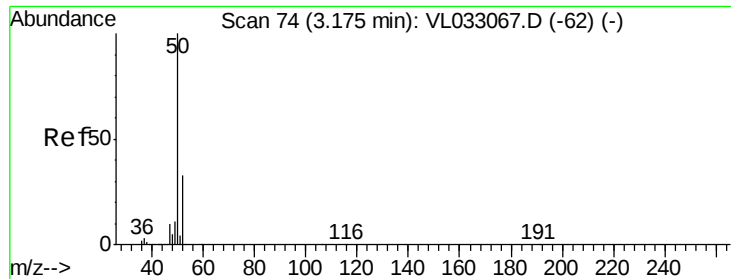
67 11.4 16.3 24.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.546 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

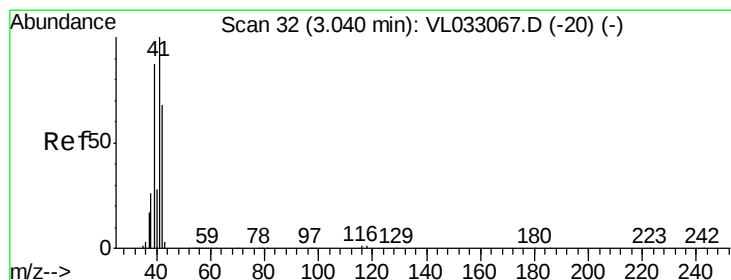
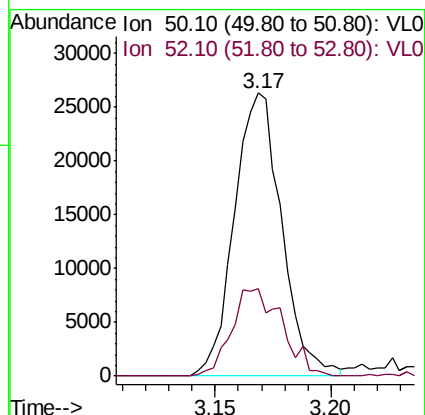
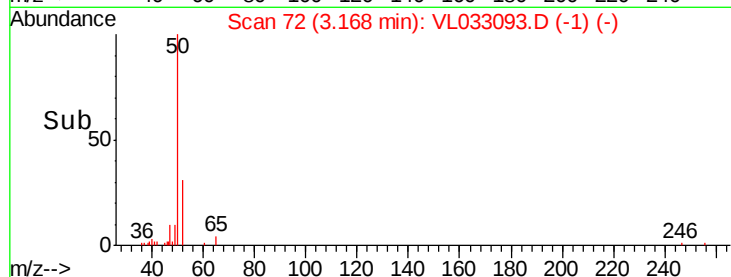
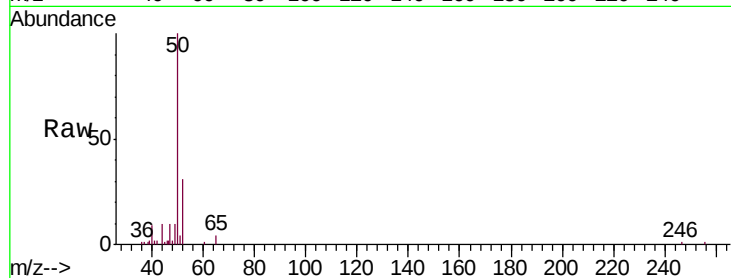
IA1ADUP

Tgt Ion: 50 Resp: 37320

Ion Ratio Lower Upper

50 100

52 30.8 26.9 40.3



#9

Propene

Concen: 0.787 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033093.D

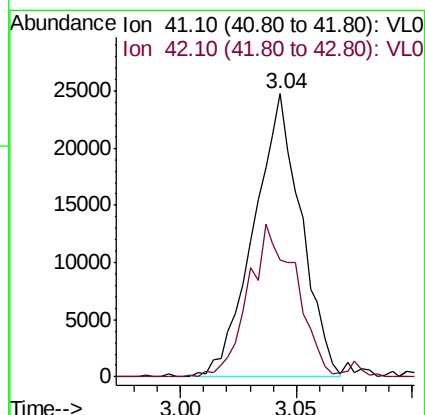
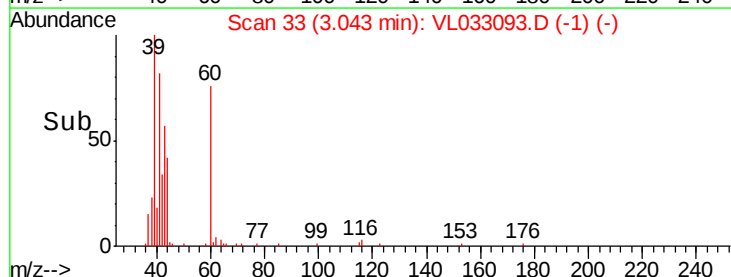
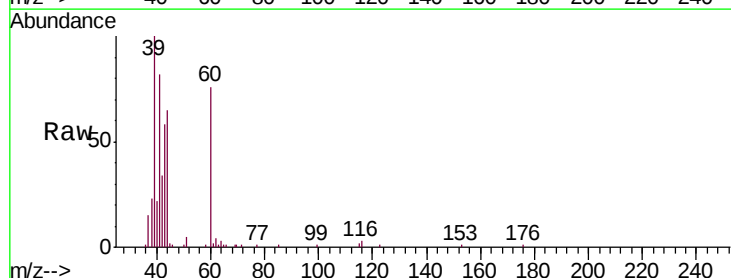
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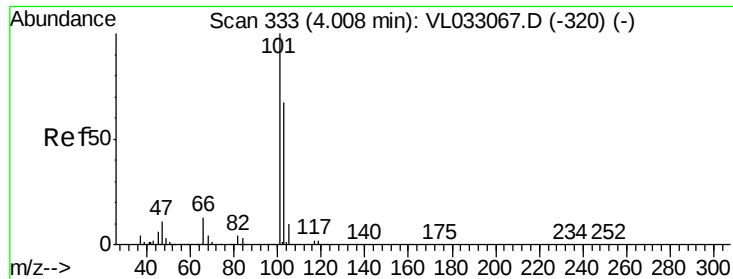
Tgt Ion: 41 Resp: 35088

Ion Ratio Lower Upper

41 100

42 56.8 55.3 82.9

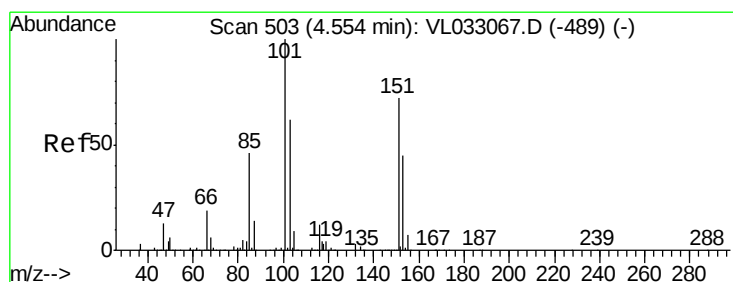
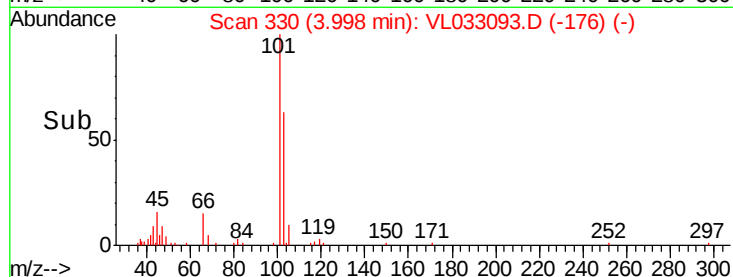
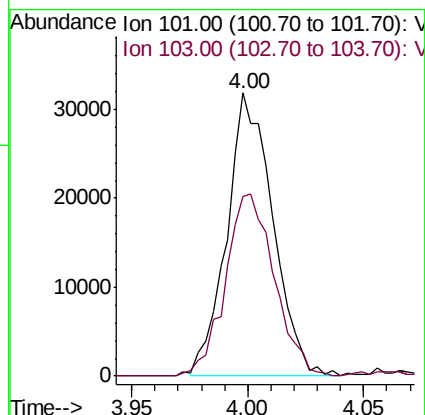
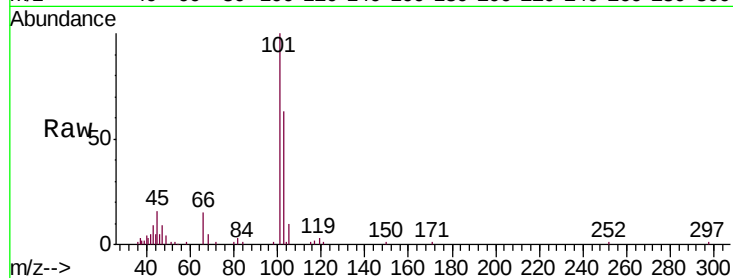




#11
 Trichlorofluoromethane
 Concen: 0.203 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

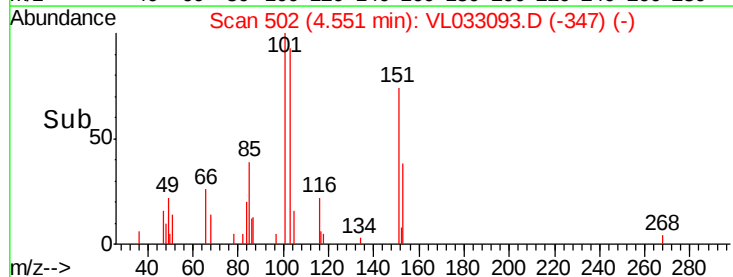
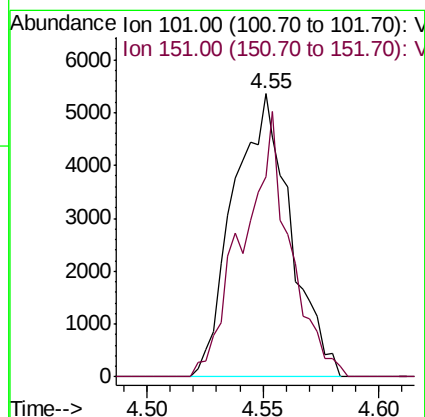
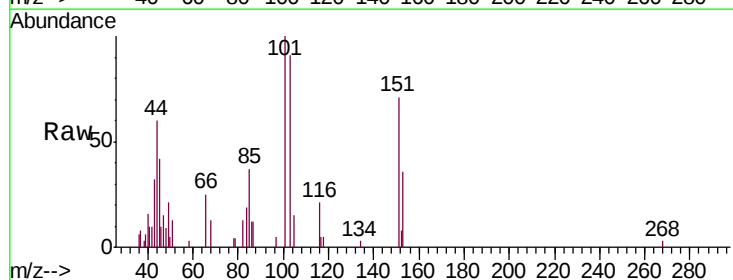
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

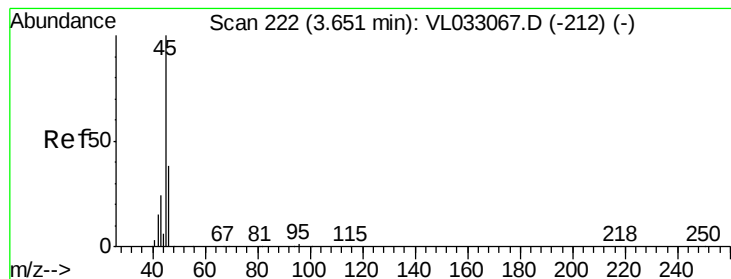
Tgt Ion:101 Resp: 43902
 Ion Ratio Lower Upper
 101 100
 103 63.4 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion:101 Resp: 9189
 Ion Ratio Lower Upper
 101 100
 151 77.3 58.3 87.5





#13

Ethanol

Concen: 54.395 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

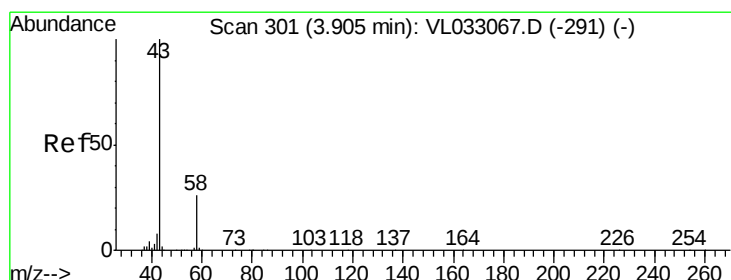
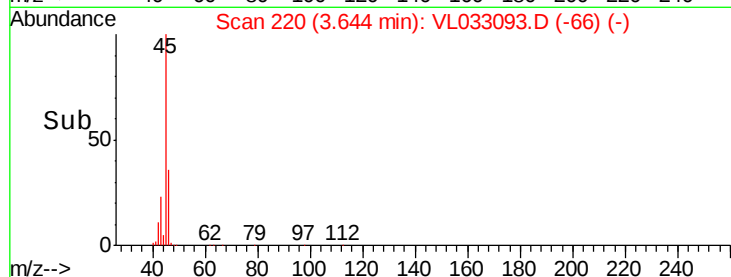
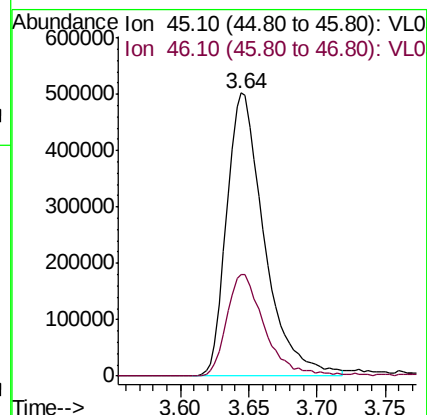
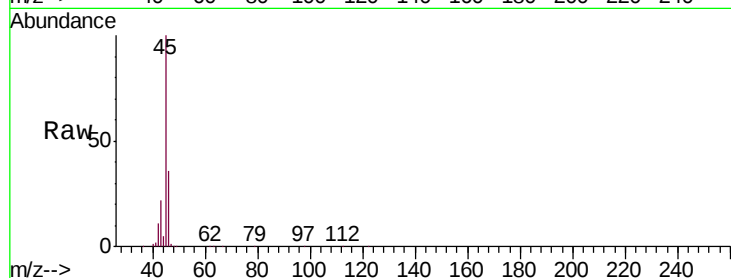
IA1ADUP

Tgt Ion: 45 Resp: 966505

Ion Ratio Lower Upper

45 100

46 36.3 13.8 55.2



#15

Acetone

Concen: 5.062 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033093.D

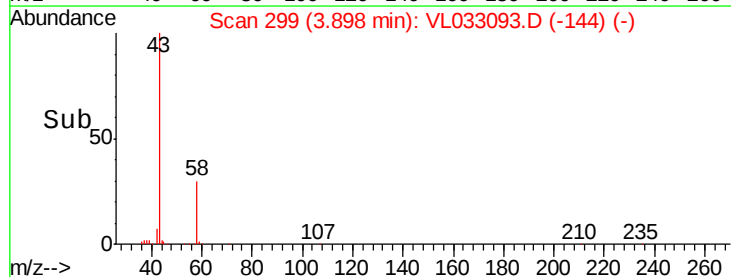
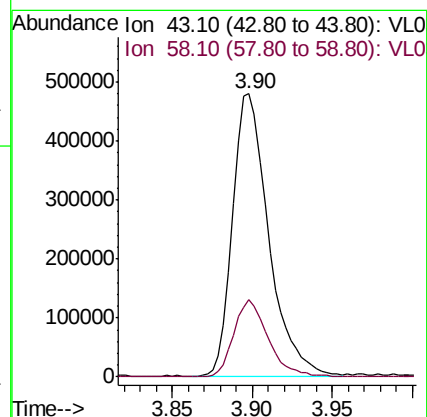
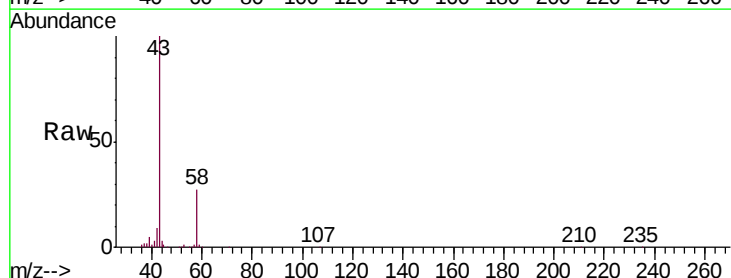
Acq: 16 Jan 2019 15:41

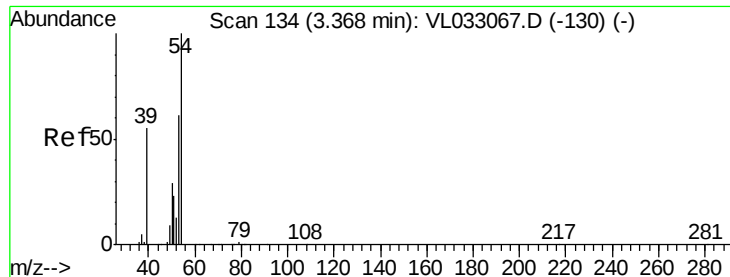
Tgt Ion: 43 Resp: 738276

Ion Ratio Lower Upper

43 100

58 26.2 21.1 31.7

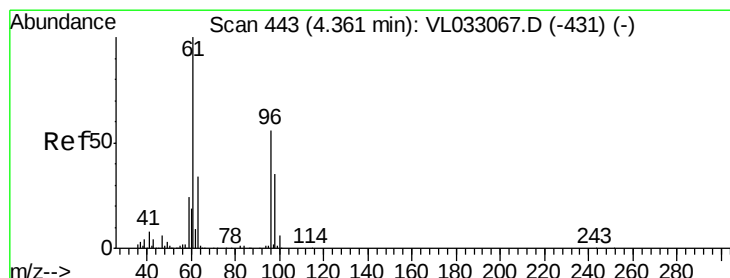
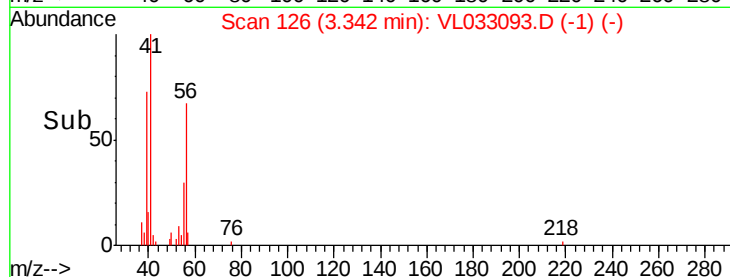
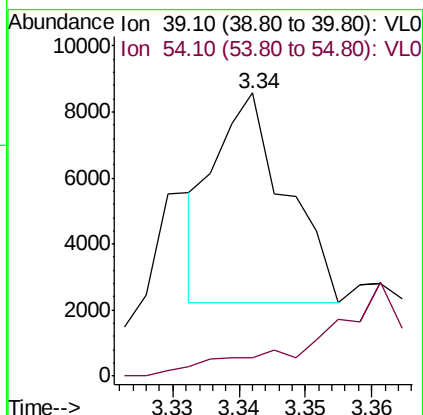
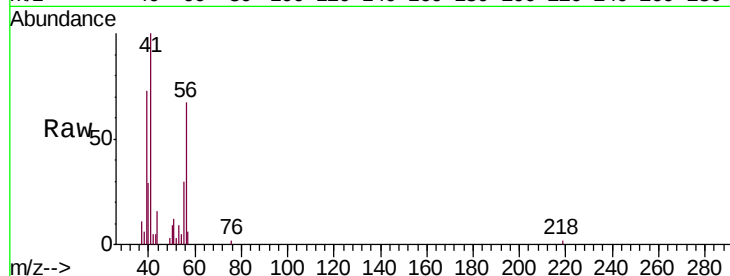




#16
 1,3-Butadiene
 Concen: 0.085 ppbv
 RT: 3.34 min Scan# 126
 Delta R.T. -0.02 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

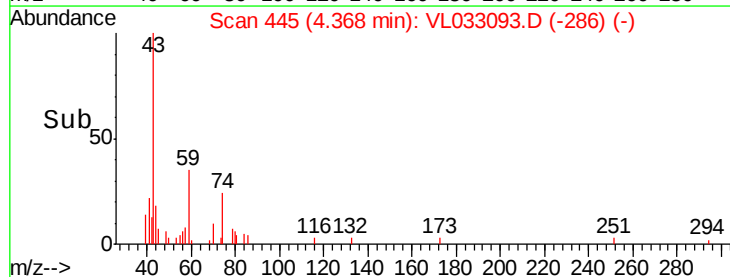
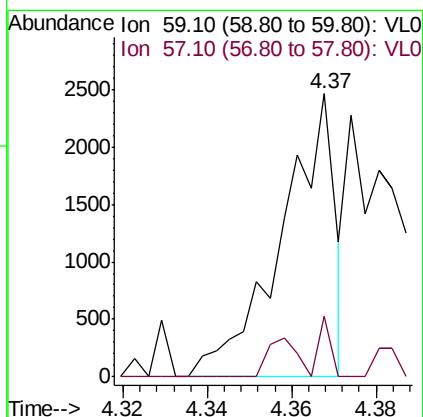
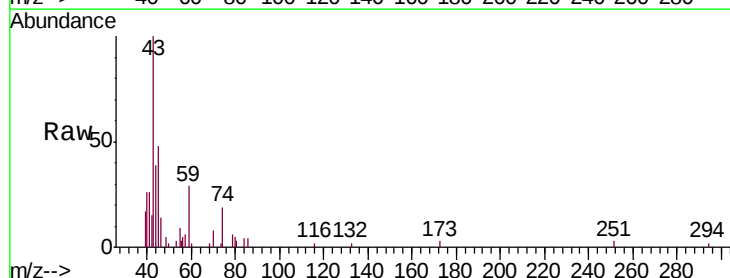
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

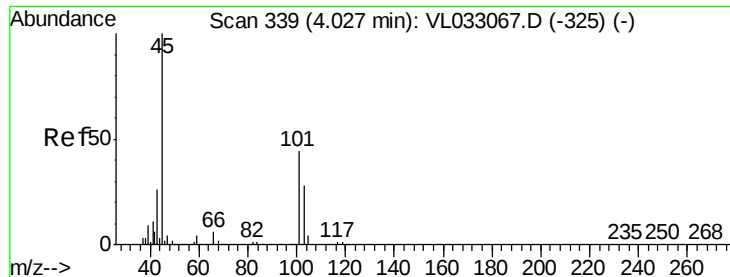
Tgt Ion: 39 Resp: 4675
 Ion Ratio Lower Upper
 39 100
 54 93.5 73.7 110.5



#17
 tert-Butyl alcohol
 Concen: 0.070 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion: 59 Resp: 2165
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#





#19

Isopropyl Alcohol

Concen: 0.197 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

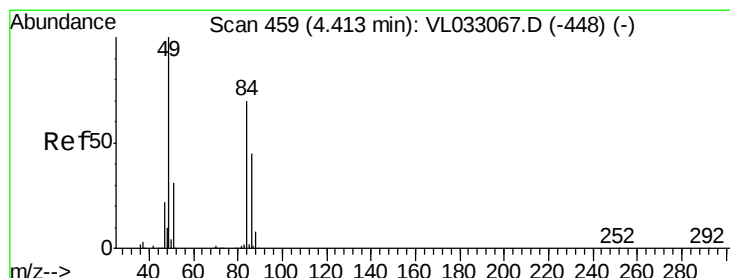
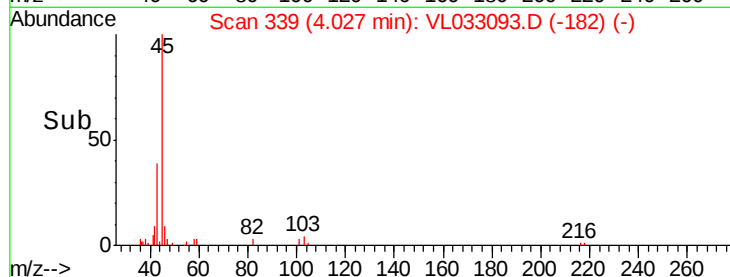
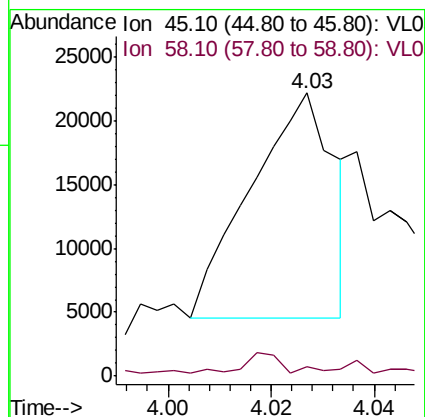
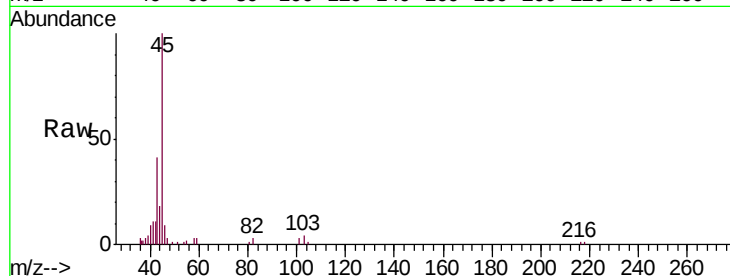
IA1ADUP

Tgt Ion: 45 Resp: 19745

Ion Ratio Lower Upper

45 100

58 977.6 1.4 2.2#



#20

Methylene Chloride

Concen: 13.329 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Tgt Ion: 84 Resp: 810392

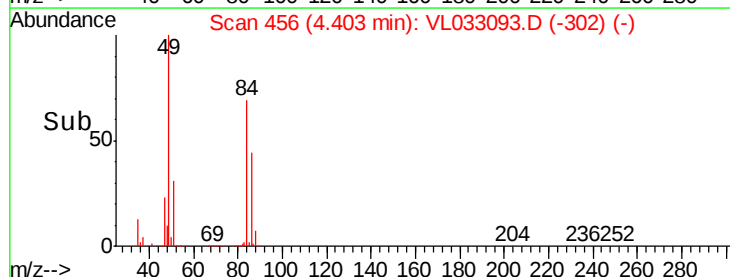
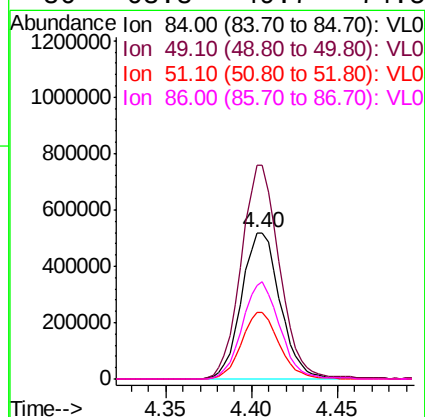
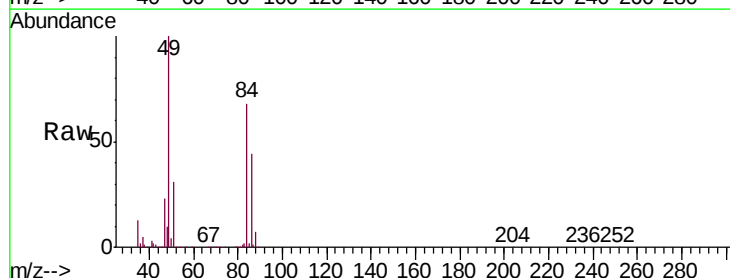
Ion Ratio Lower Upper

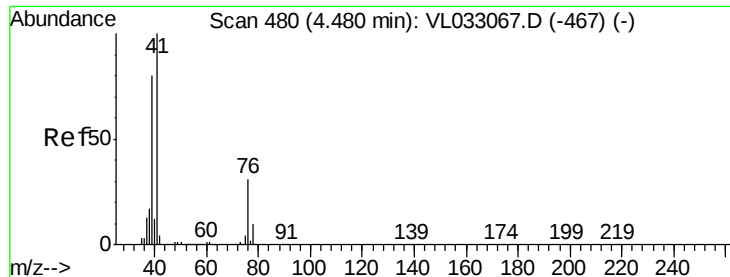
84 100

49 146.0 115.8 173.6

51 45.9 35.7 53.5

86 63.8 49.7 74.5

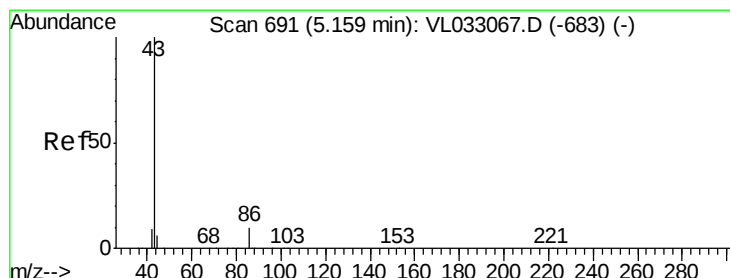
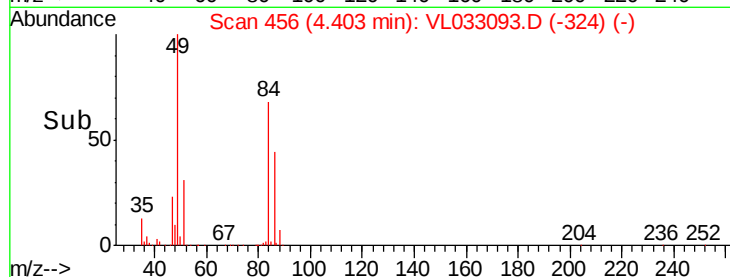
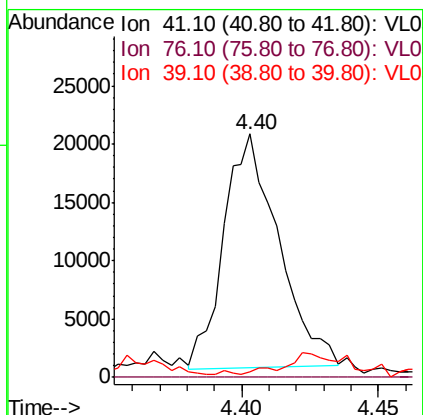
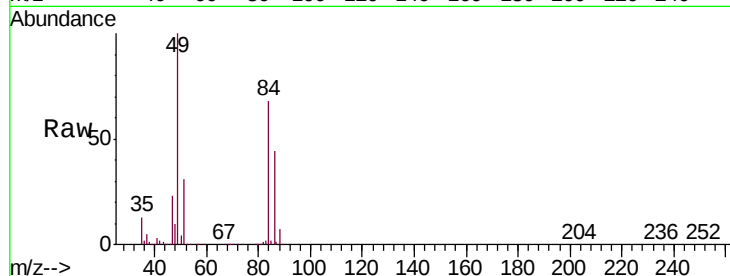




#21
 Allyl Chloride
 Concen: 0.312 ppbv
 RT: 4.40 min Scan# 456
 Delta R.T. -0.08 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

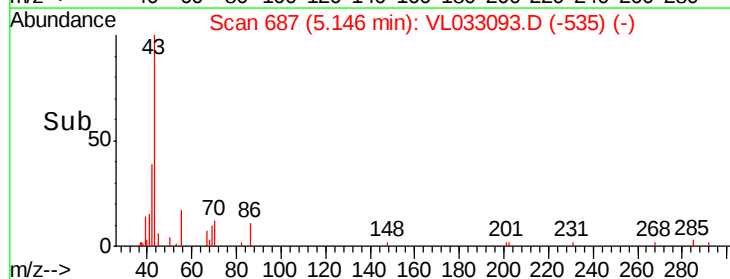
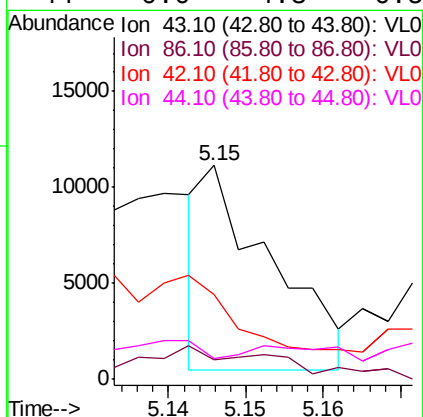
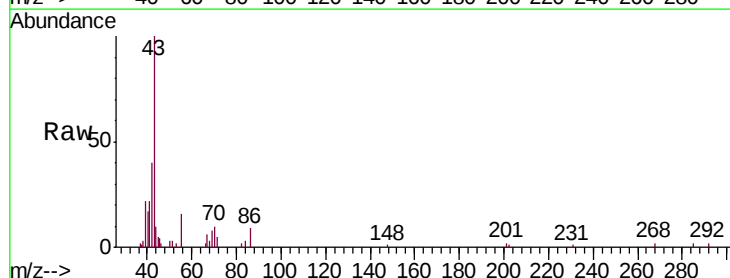
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

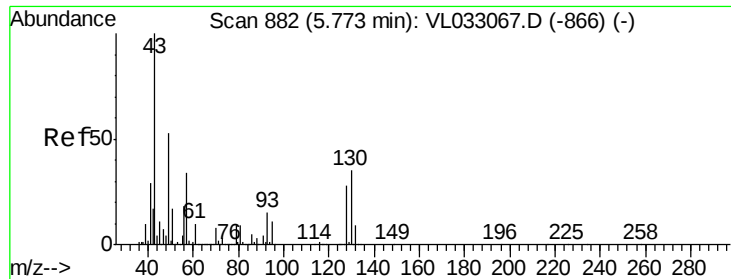
Tgt Ion: 41 Resp: 28201
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.6 36.8#
 39 13.5 62.8 94.2#



#23
 Vinyl Acetate
 Concen: 0.036 ppbv
 RT: 5.15 min Scan# 687
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion: 43 Resp: 6625
 Ion Ratio Lower Upper
 43 100
 86 4.4 6.2 9.4#
 42 33.9 8.1 12.1#
 44 0.0 4.3 6.5#

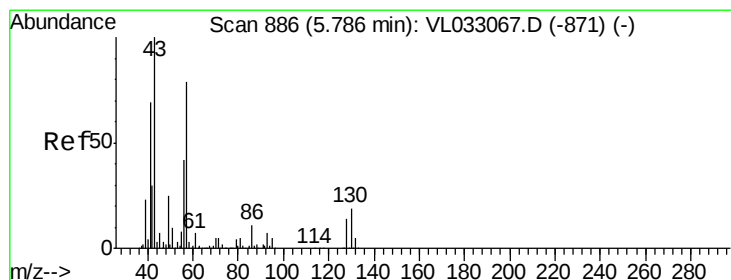
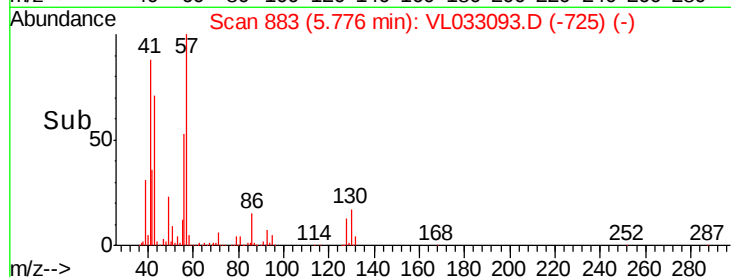
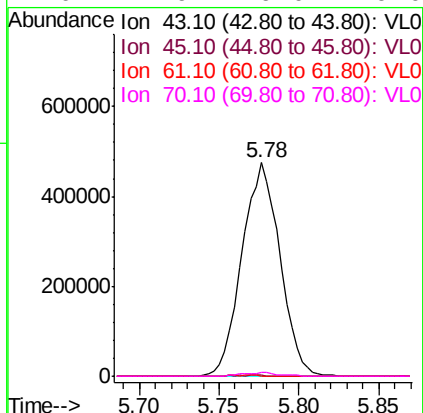
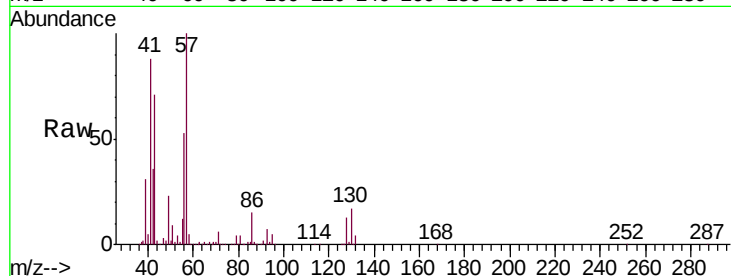




#25
Ethyl Acetate
Concen: 3.128 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

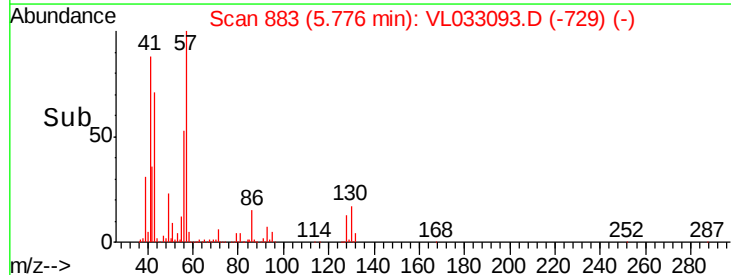
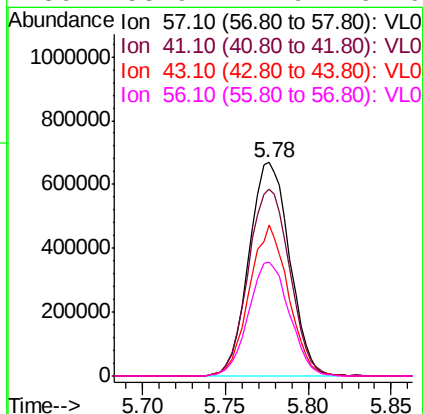
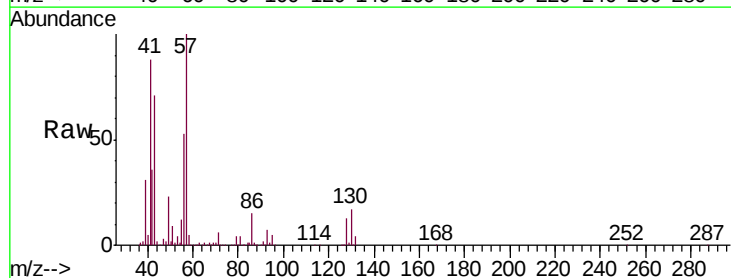
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

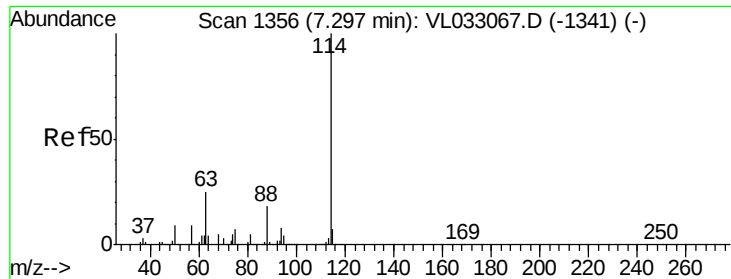
Tgt Ion:	43	Resp:	771224
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.5	7.8	11.8#
70	1.9	6.0	9.0#



#26
Hexane
Concen: 9.792 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tgt Ion:	57	Resp:	1136674
Ion	Ratio	Lower	Upper
57	100		
41	90.2	70.8	106.2
43	68.0	171.8	257.6#
56	53.9	41.9	62.9

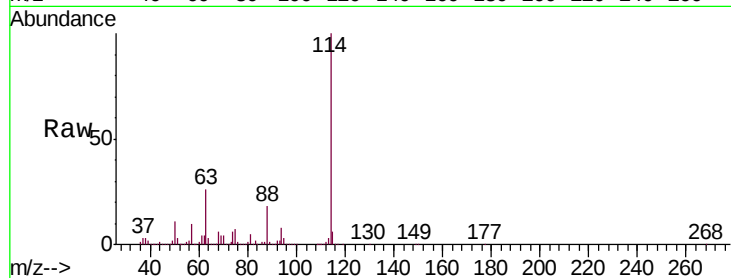




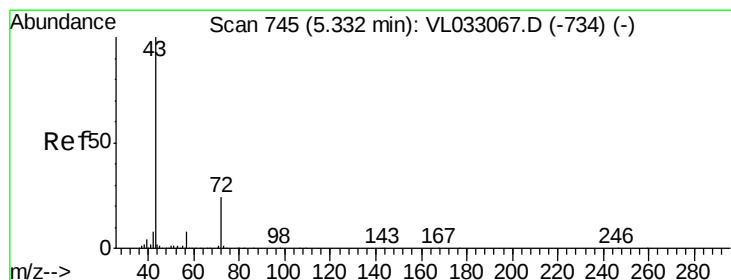
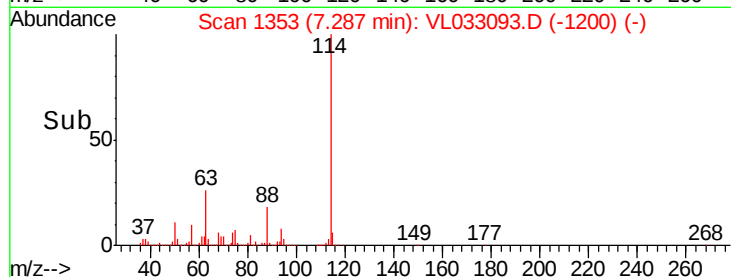
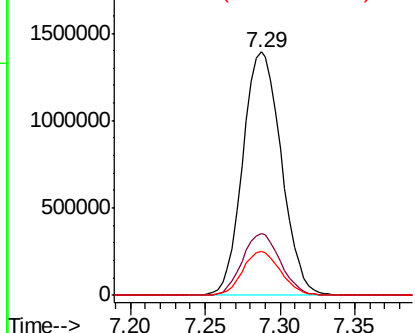
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

Tgt Ion:114 Resp: 2501017
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.1 30.1
 88 17.8 14.0 21.0

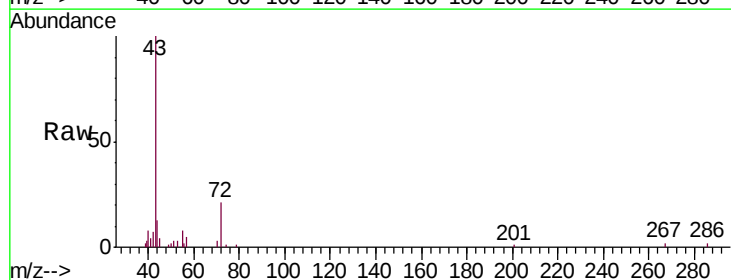


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

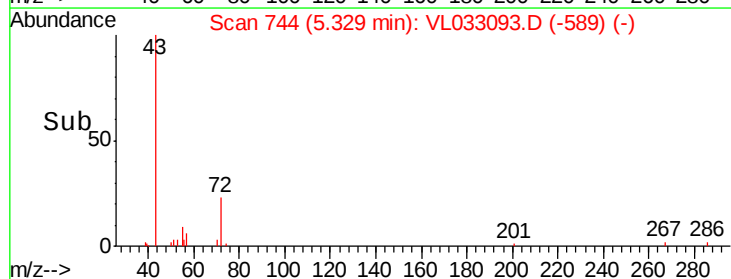
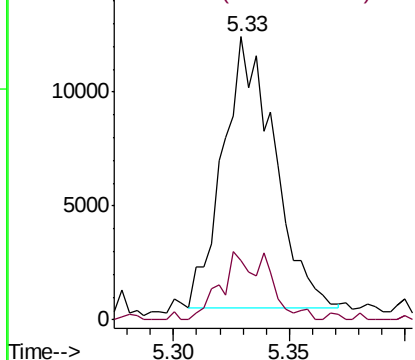


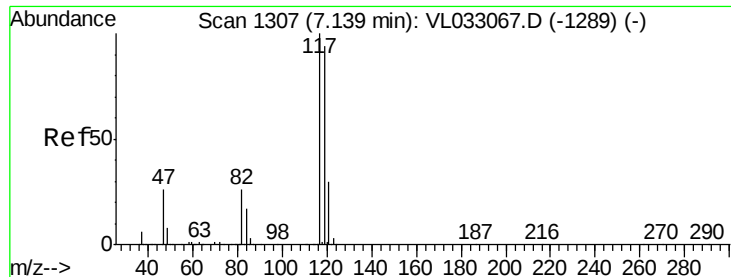
#34
 2-Butanone
 Concen: 0.126 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion: 43 Resp: 18268
 Ion Ratio Lower Upper
 43 100
 72 24.3 18.9 28.3



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





#35

Carbon Tetrachloride

Concen: 0.052 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

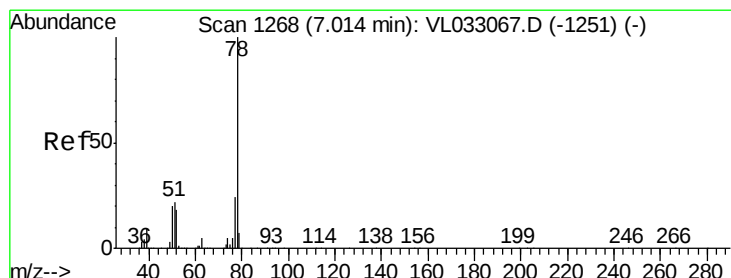
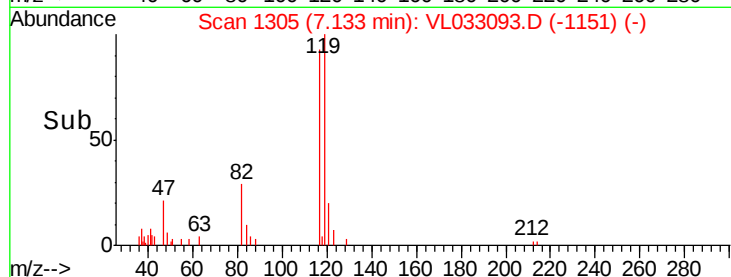
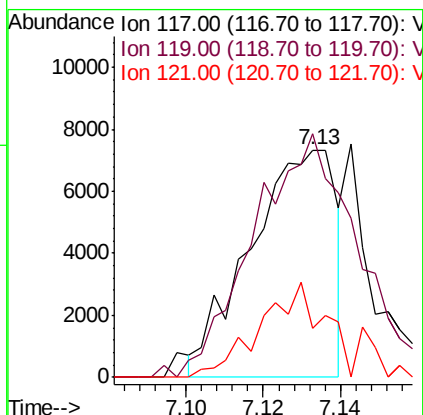
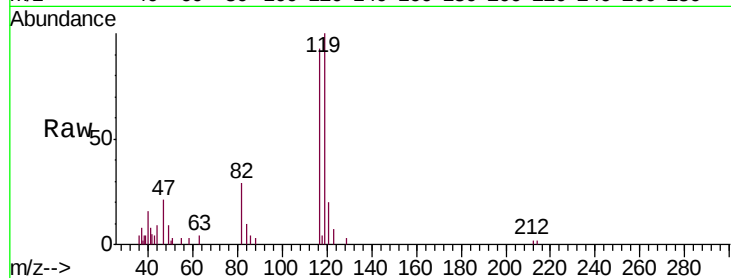
Tgt Ion:117 Resp: 11268

Ion Ratio Lower Upper

117 100

119 105.9 76.5 114.7

121 22.9 25.2 37.8#



#36

Benzene

Concen: 0.178 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

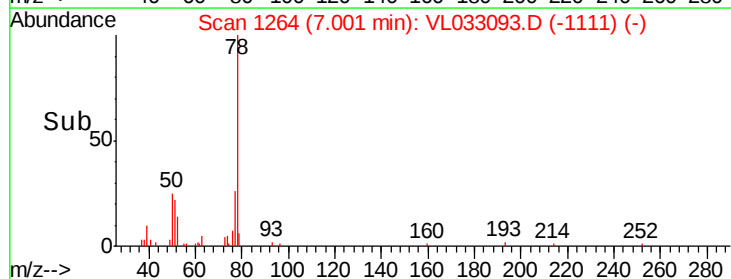
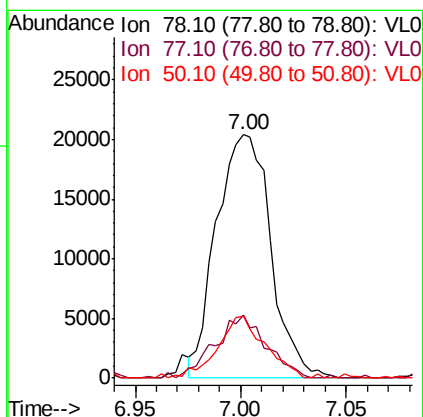
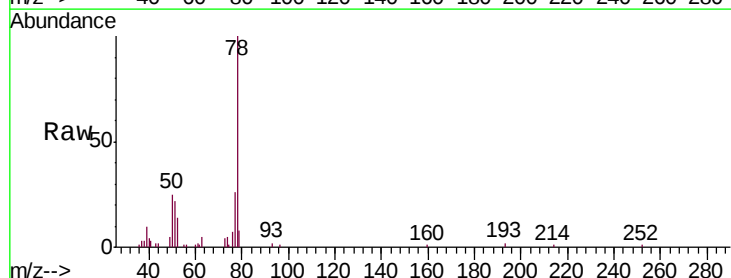
Tgt Ion: 78 Resp: 36445

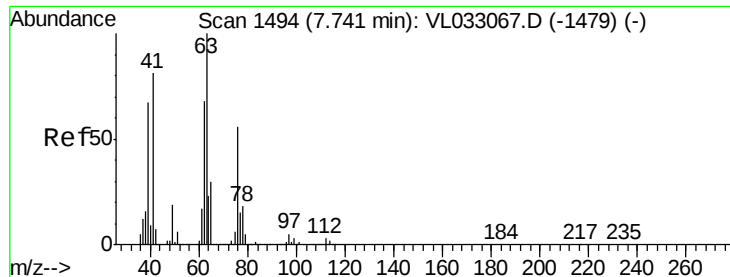
Ion Ratio Lower Upper

78 100

77 25.8 18.5 27.7

50 25.2 15.7 23.5#

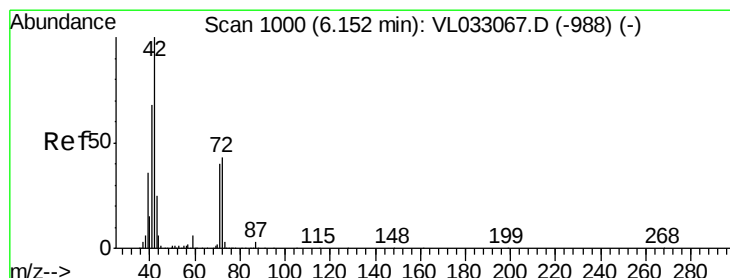
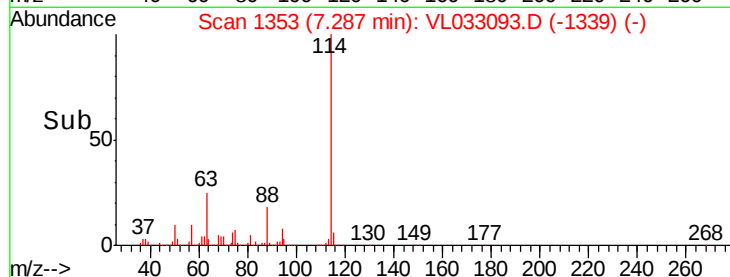
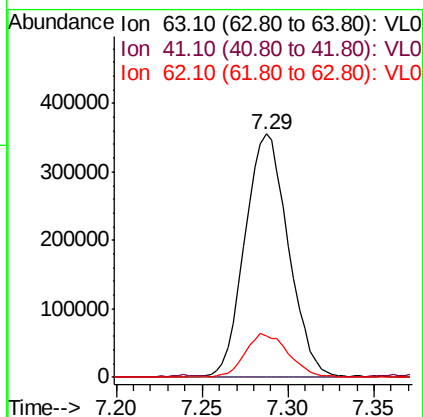
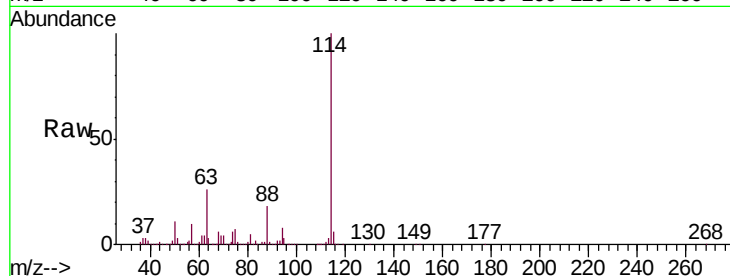




#39
 1,2-Dichloropropane
 Concen: 8.083 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

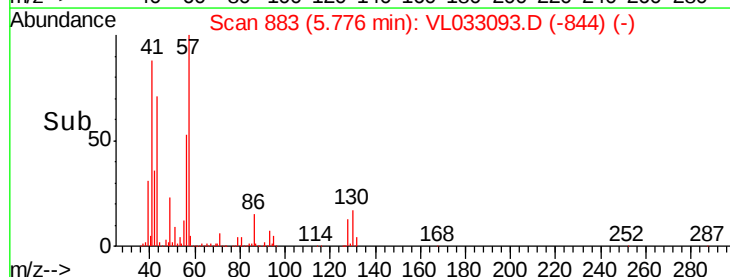
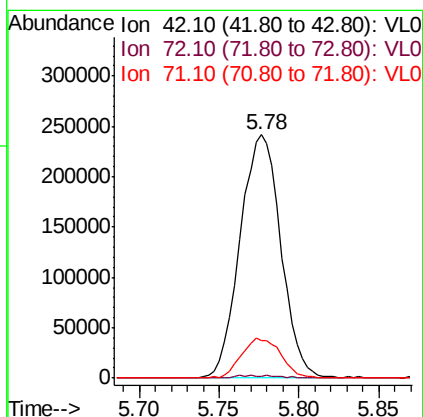
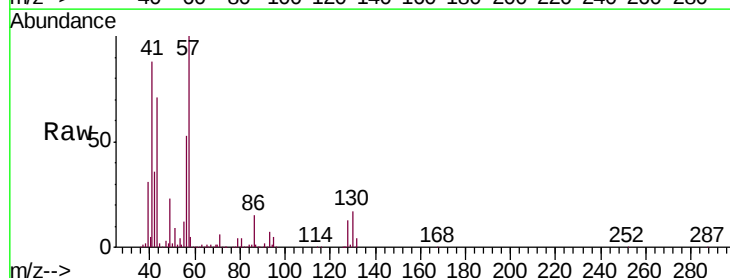
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

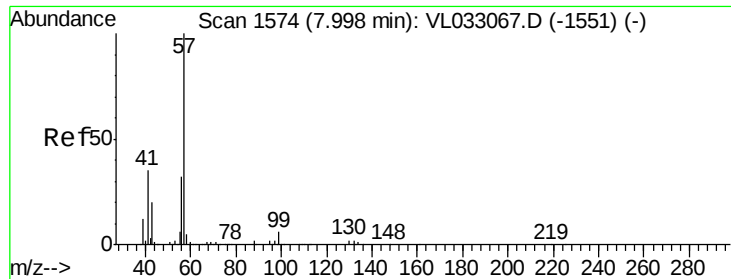
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.2	61.9	92.9#
62	16.9	55.8	83.6#



#41
 Tetrahydrofuran
 Concen: 5.678 ppbv
 RT: 5.78 min Scan# 883
 Delta R.T. -0.38 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion	Ratio	Lower	Upper
42	100		
72	1.0	32.9	49.3#
71	15.8	31.8	47.6#

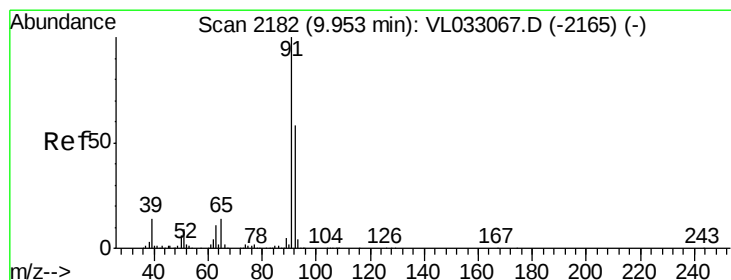
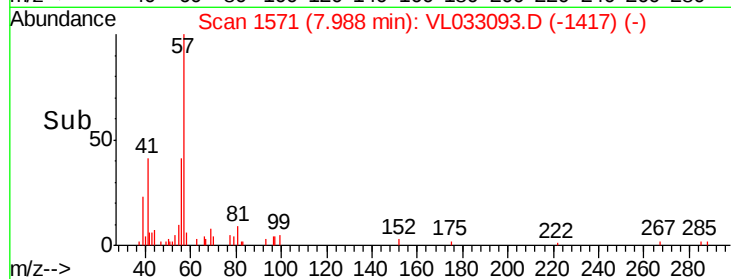
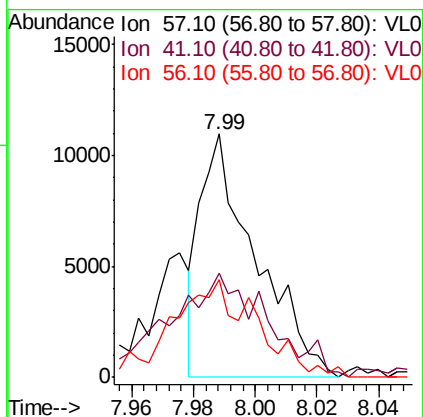
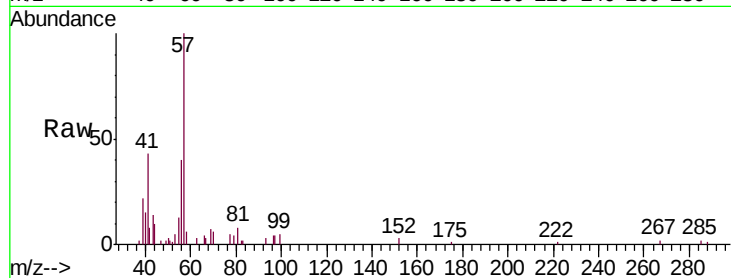




#44
 2,2,4-Trimethylpentane
 Concen: 0.039 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

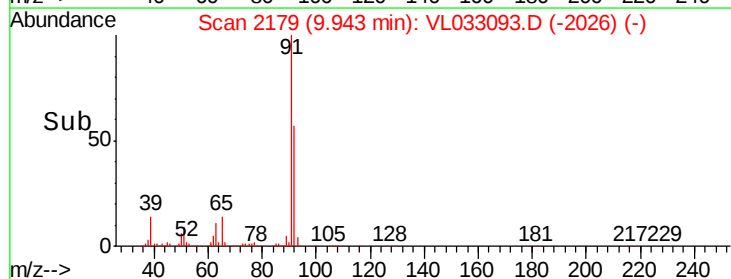
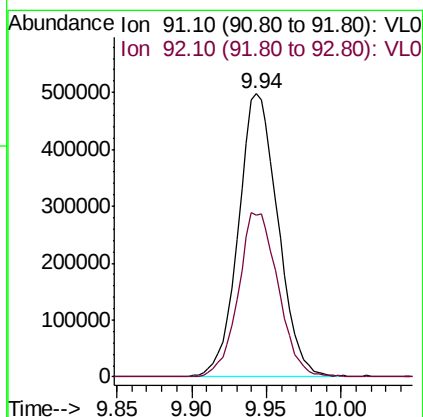
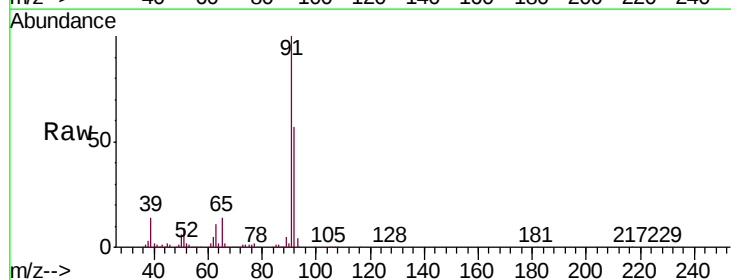
Instrument :
 MSVOA_L
 ClientSampled :
 IA1ADUP

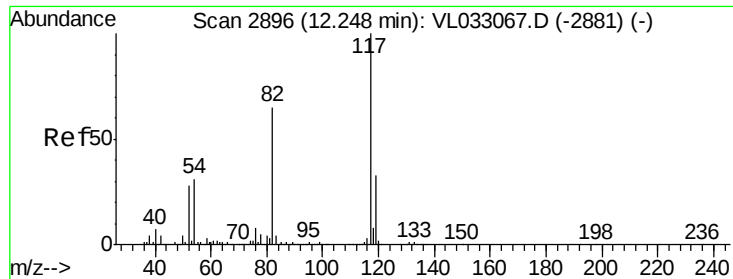
Tgt Ion: 57 Resp: 13666
 Ion Ratio Lower Upper
 57 100
 41 80.3 26.2 39.2#
 56 61.6 24.9 37.3#



#53
 Toluene
 Concen: 4.150 ppbv
 RT: 9.94 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Tgt Ion: 91 Resp: 911050
 Ion Ratio Lower Upper
 91 100
 92 59.0 47.7 71.5

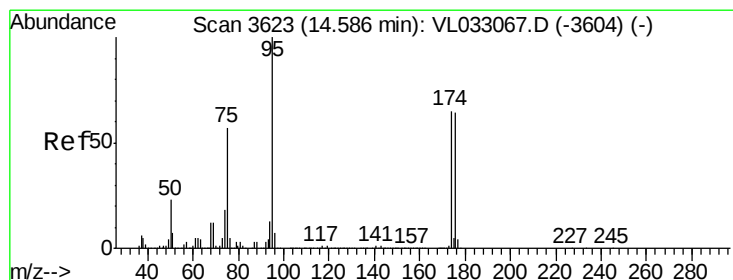
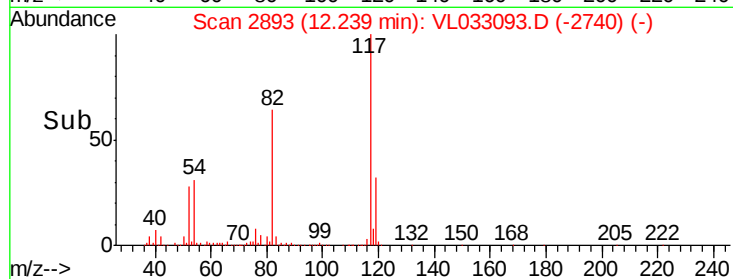
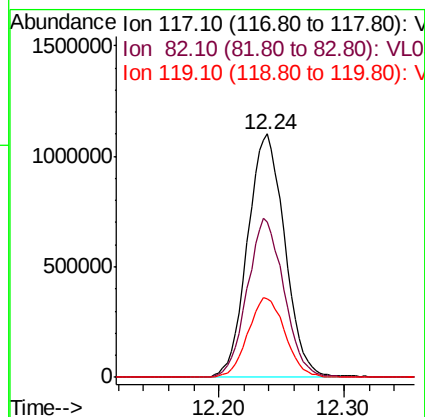
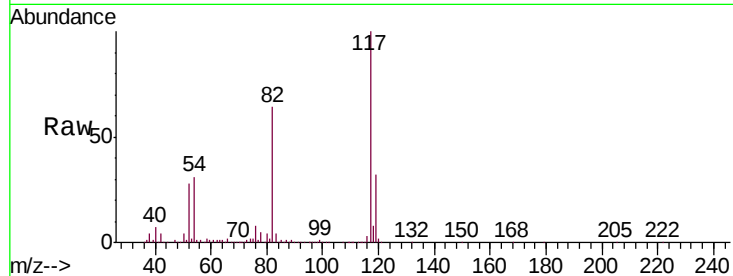




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Instrument :
MSVOA_L
ClientSampled :
IA1ADUP

Tgt Ion: 117 Resp: 2267072
Ion Ratio Lower Upper
117 100
82 64.7 48.9 73.3
119 32.9 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.177 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tgt Ion: 95 Resp: 1768669
Ion Ratio Lower Upper
95 100
174 64.5 51.9 77.9
175 4.8 3.9 5.9

