

Data File : VL032397.D
Acq On : 17 Aug 2018 4:21
Operator : SY/AP
Sample : J4472-01 10XDUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Quant Time: Aug 17 06:33:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1749179	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3437240	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3337972	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2568573	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

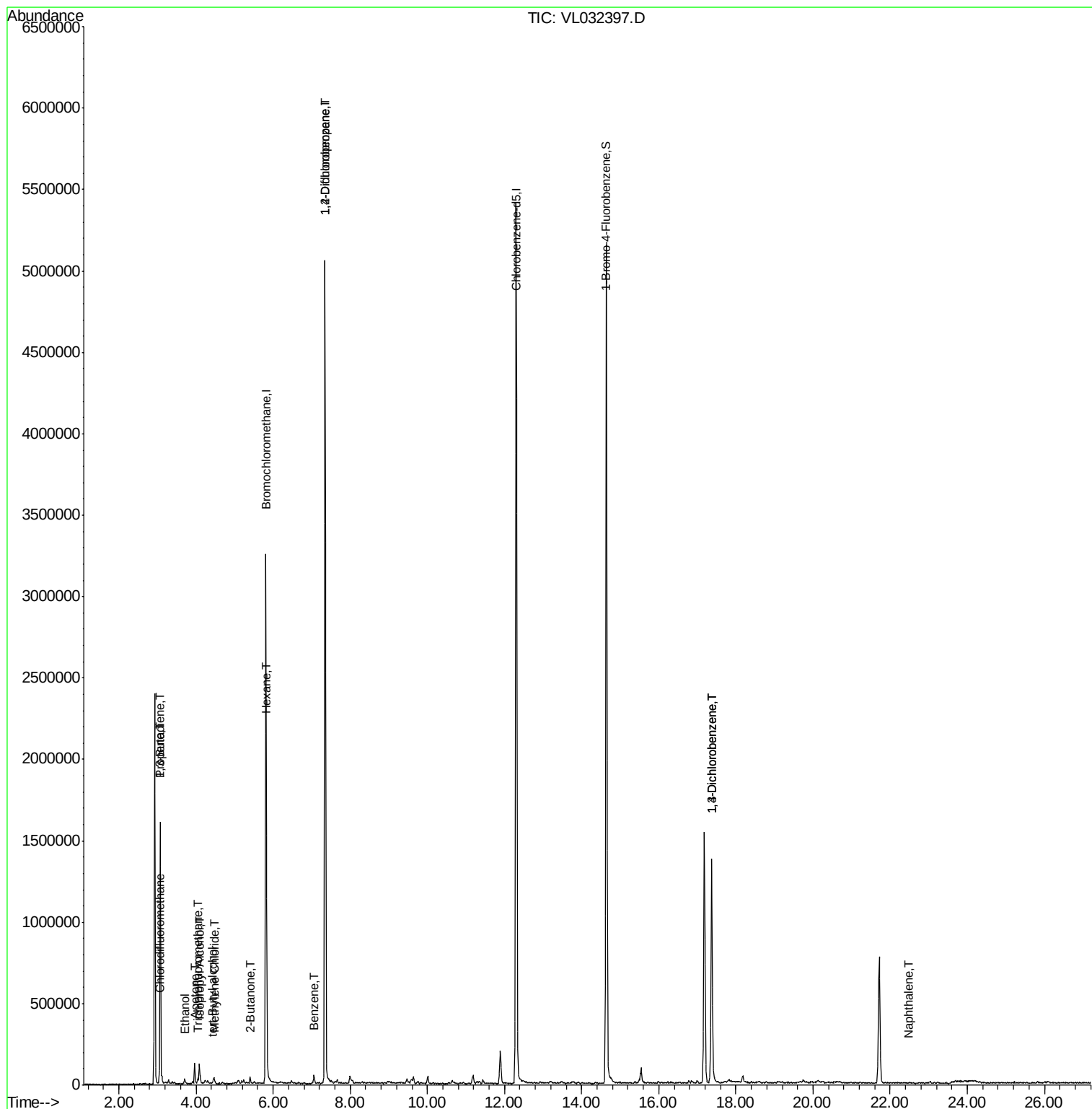
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	20863	Below Cal		94
3) Chlorodifluoromethane	3.05	51	24467	0.151	ppbv	96
9) Propene	3.07	41	617647	8.907	ppbv	100
11) Trichlorofluoromethane	4.05	101	9077	0.046	ppbv	86
13) Ethanol	3.70	45	13017	0.731	ppbv #	36
15) Acetone	3.96	43	108584	0.653	ppbv	100
16) 1,3-Butadiene	3.07	39	503912	7.344	ppbv #	1
17) tert-Butyl alcohol	4.42	59	868	0.031	ppbv #	74
19) Isopropyl Alcohol	4.09	45	72017	0.644	ppbv #	82
20) Methylene Chloride	4.46	84	2019	0.032	ppbv #	21
26) Hexane	5.84	57	5904	0.037	ppbv #	49
34) 2-Butanone	5.40	43	23717	0.101	ppbv #	53
36) Benzene	7.06	78	32658	0.112	ppbv	98
39) 1,2-Dichloropropane	7.35	63	966848	7.943	ppbv #	24
75) 1,3-Dichlorobenzene	17.38	146	682864	2.969	ppbv	98
76) 1,4-Dichlorobenzene	17.38	146	682864	3.134	ppbv	99
79) Naphthalene	22.48	128	914	0.330	ppbv #	1

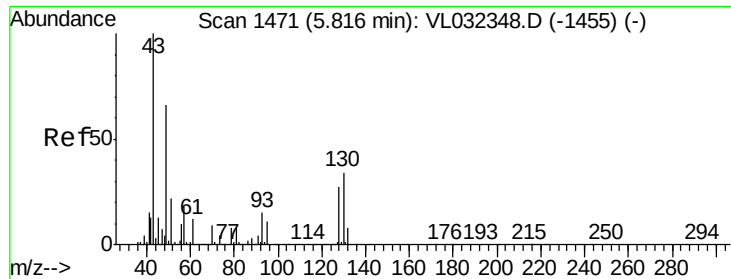
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

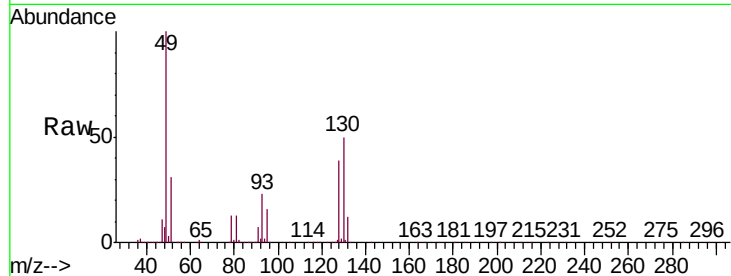
Tgt Ion: 49 Resp: 1749179

Ion Ratio Lower Upper

49 100

128 40.2 20.5 61.6

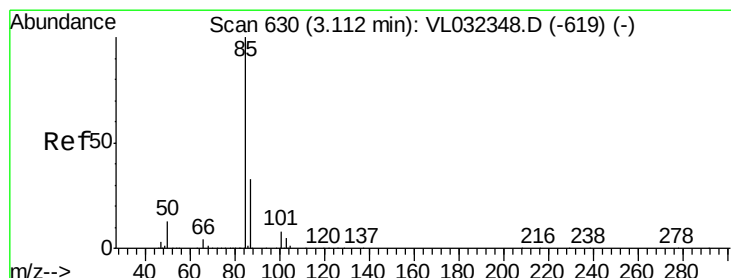
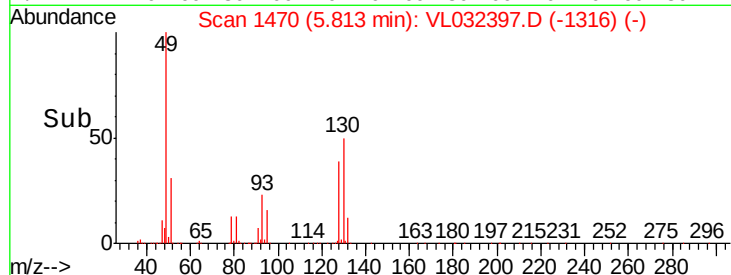
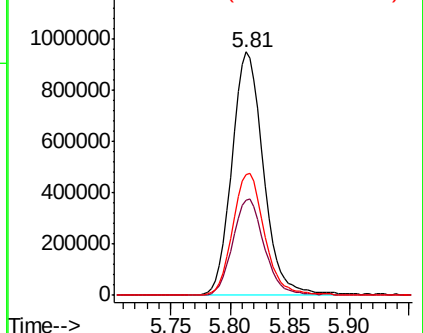
130 51.3 26.2 78.5



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: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032397.D

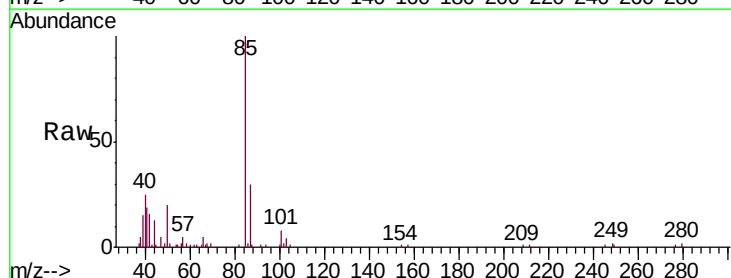
Acq: 17 Aug 2018 4:21

Tgt Ion: 85 Resp: 20863

Ion Ratio Lower Upper

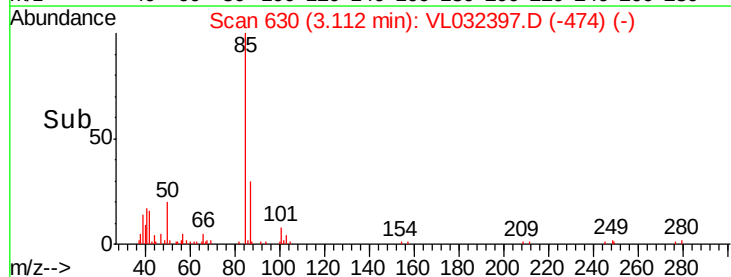
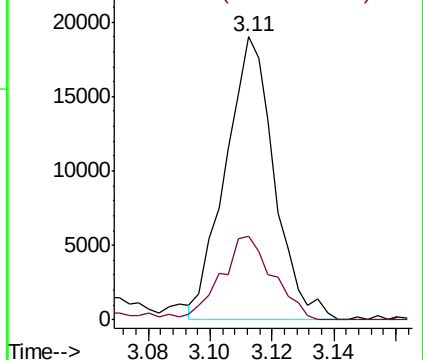
85 100

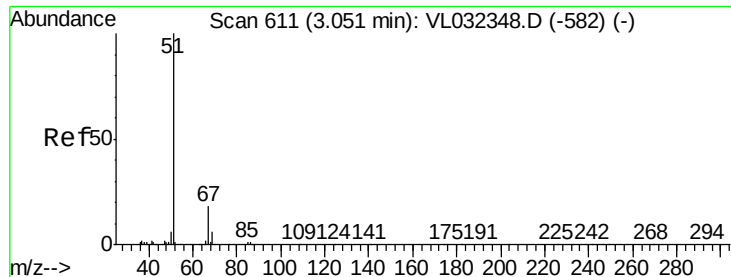
87 29.6 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.151 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

Instrument :

MSVOA_L

ClientSampleId :

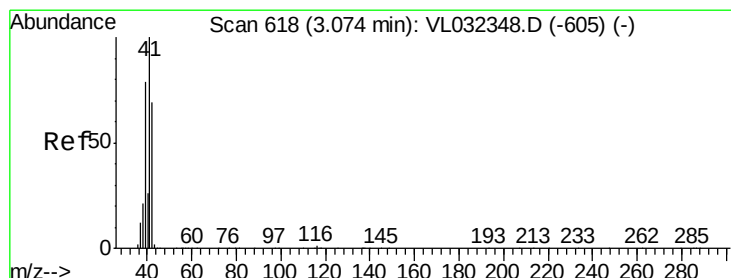
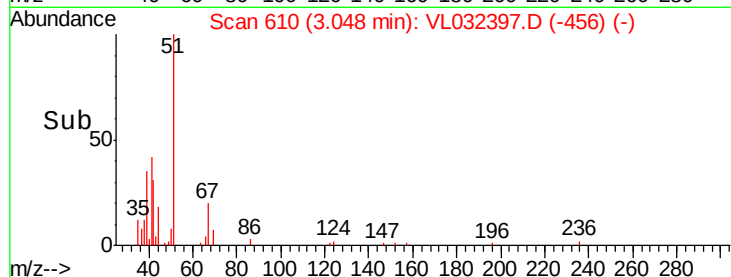
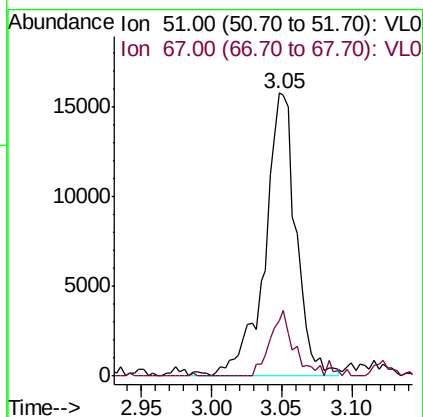
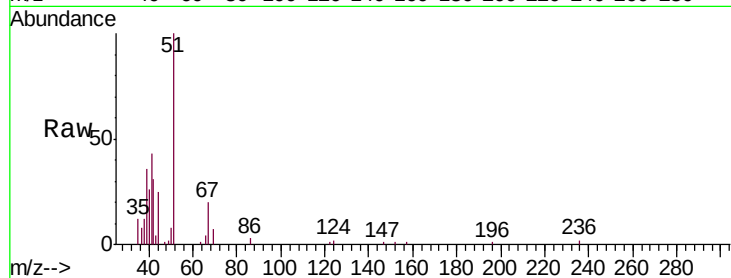
SS-1DUP

Tgt Ion: 51 Resp: 24467

Ion Ratio Lower Upper

51 100

67 18.8 13.7 20.5



#9

Propene

Concen: 8.907 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032397.D

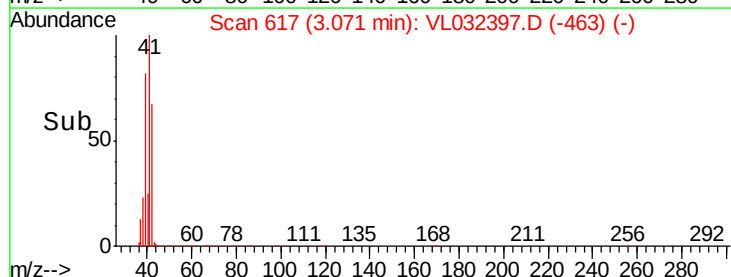
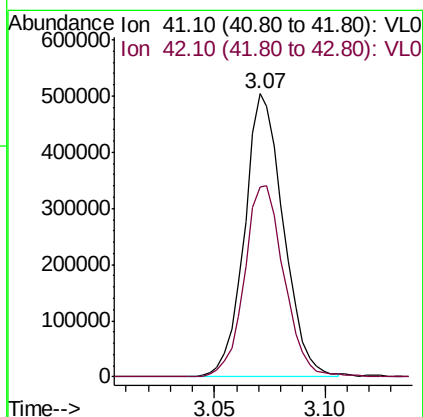
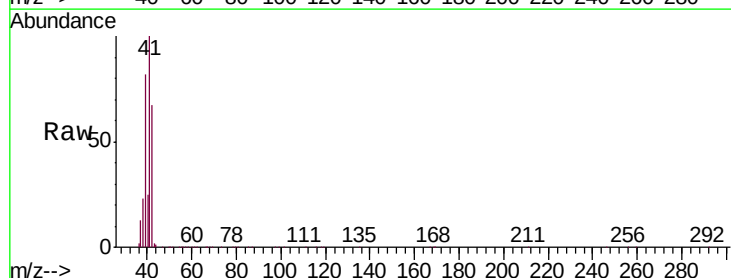
Acq: 17 Aug 2018 4:21

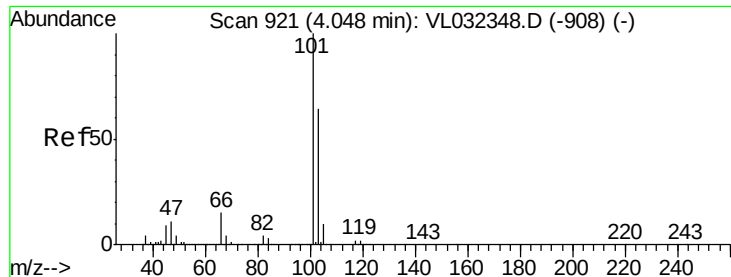
Tgt Ion: 41 Resp: 617647

Ion Ratio Lower Upper

41 100

42 69.6 55.9 83.9





#11

Trichlorofluoromethane

Concen: 0.046 ppbv

RT: 4.05 min Scan# 923

Delta R.T. 0.01 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

Instrument :

MSVOA_L

ClientSampleId :

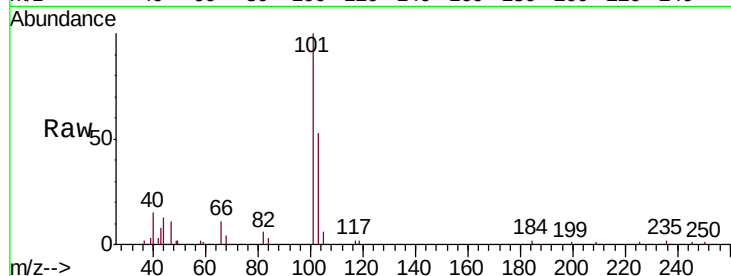
SS-1DUP

Tgt Ion:101 Resp: 9077

Ion Ratio Lower Upper

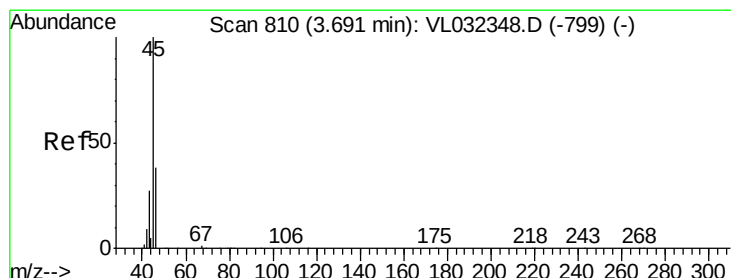
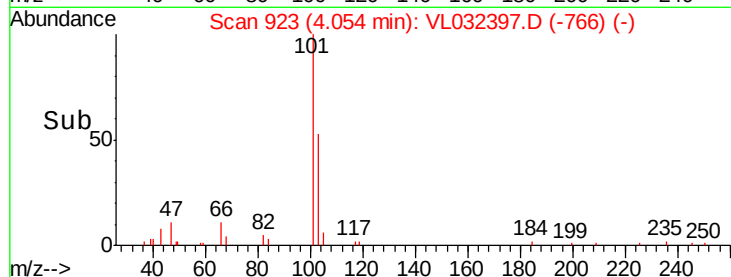
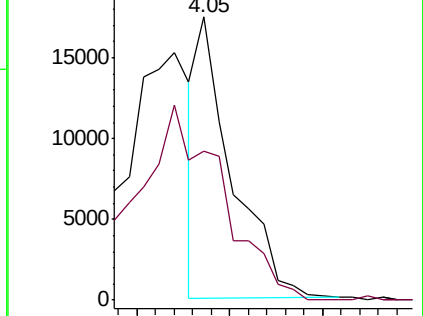
101 100

103 53.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.731 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.01 min

Lab File: VL032397.D

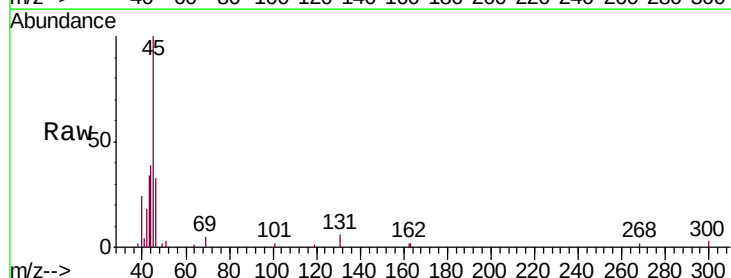
Acq: 17 Aug 2018 4:21

Tgt Ion: 45 Resp: 13017

Ion Ratio Lower Upper

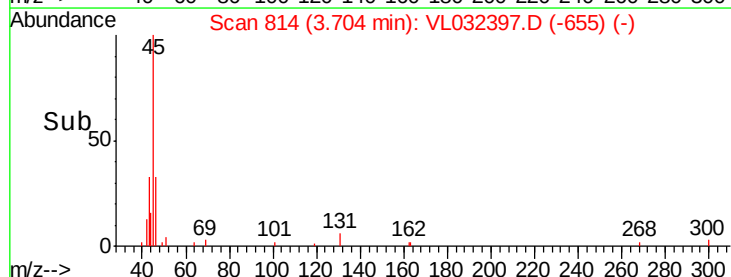
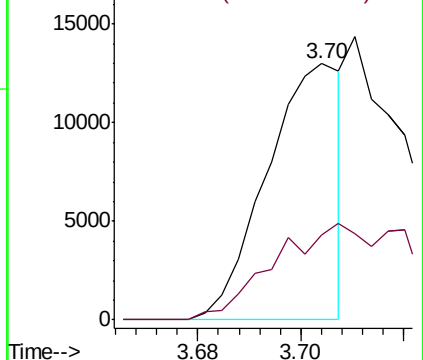
45 100

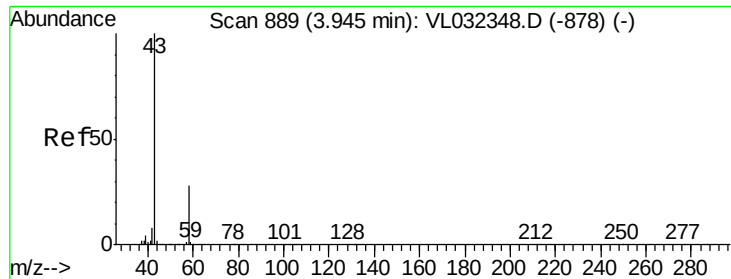
46 0.0 15.6 62.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.653 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

Instrument :

MSVOA_L

ClientSampleId :

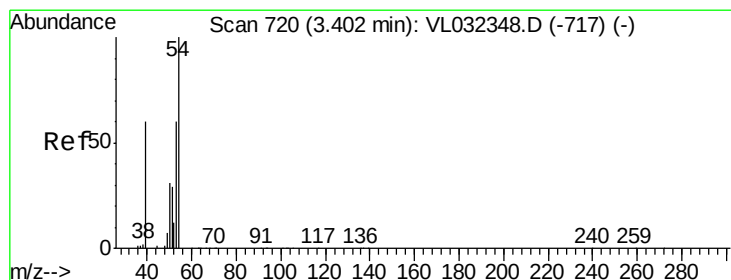
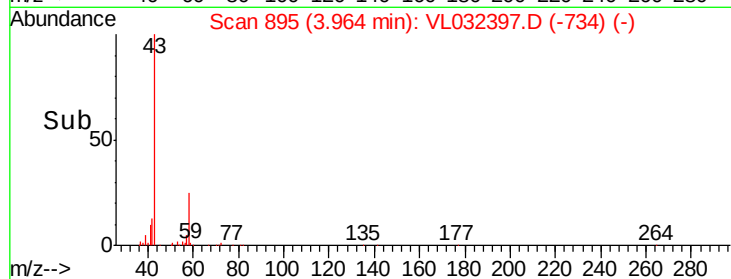
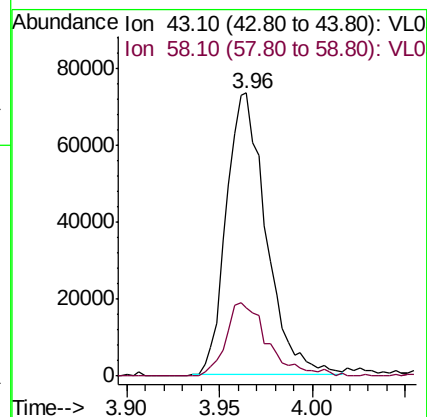
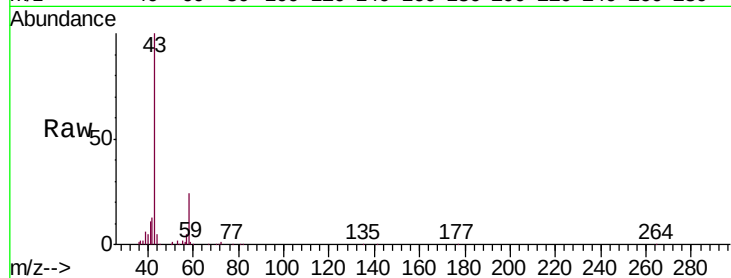
SS-1DUP

Tgt Ion: 43 Resp: 108584

Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6



#16

1,3-Butadiene

Concen: 7.344 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.33 min

Lab File: VL032397.D

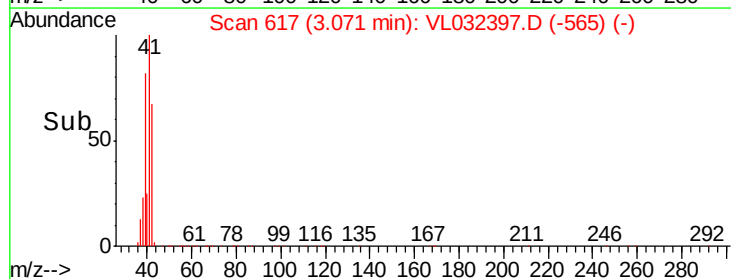
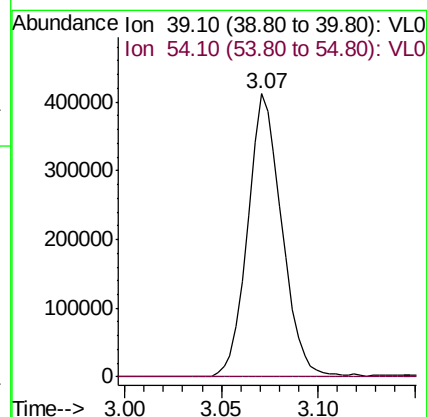
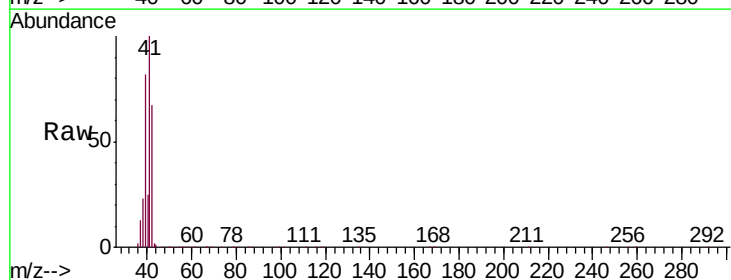
Acq: 17 Aug 2018 4:21

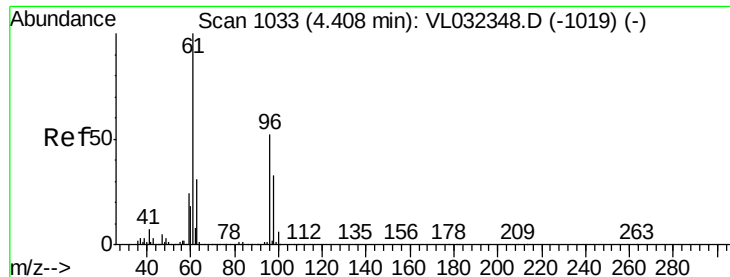
Tgt Ion: 39 Resp: 503912

Ion Ratio Lower Upper

39 100

54 0.1 85.5 128.3#

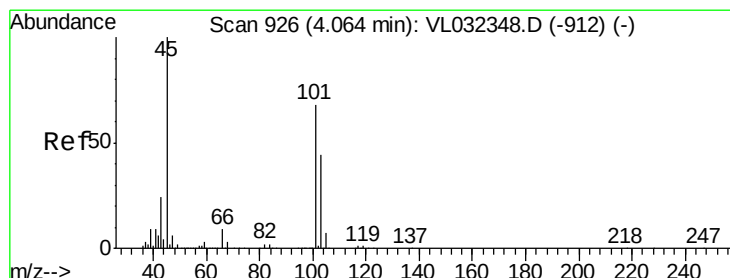
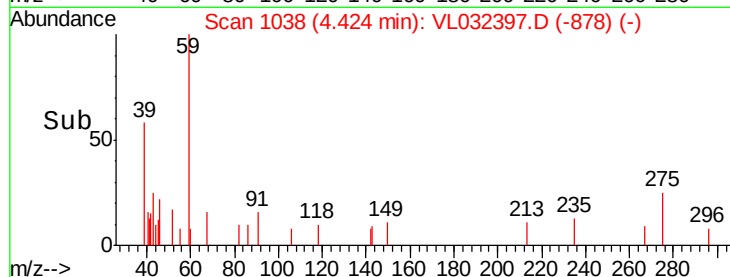
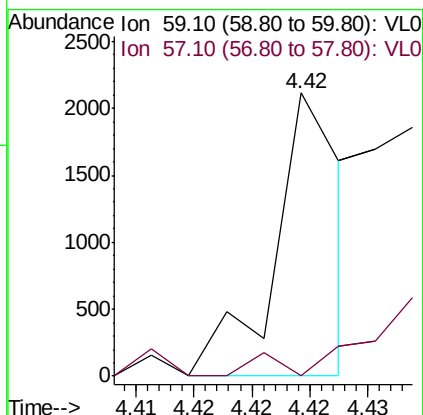
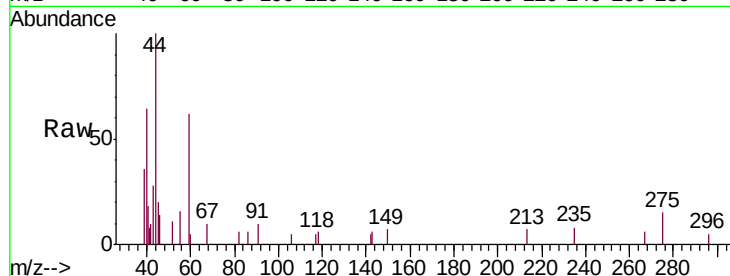




#17
 tert-Butyl alcohol
 Concen: 0.031 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. 0.02 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

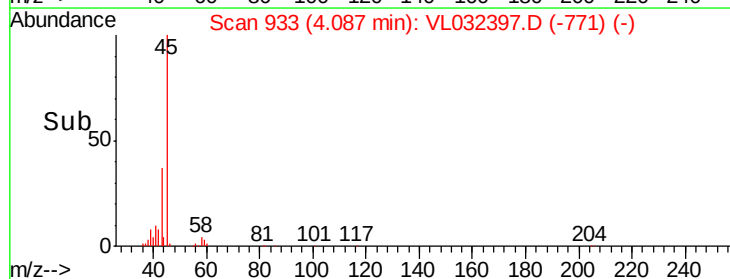
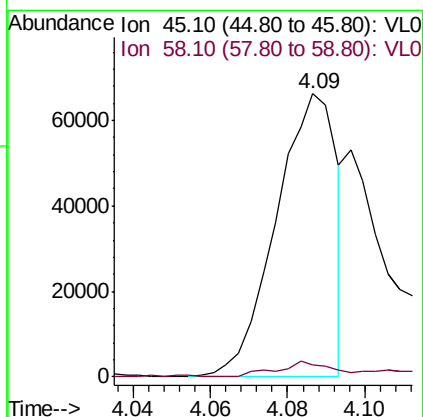
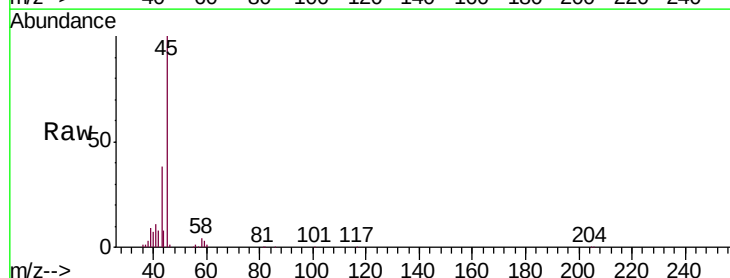
Instrument :
 MSVOA_L
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 SS-1DUP

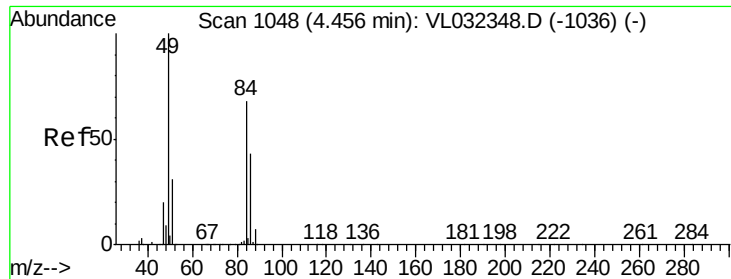
Tgt Ion: 59 Resp: 868
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#



#19
 Isopropyl Alcohol
 Concen: 0.644 ppbv
 RT: 4.09 min Scan# 933
 Delta R.T. 0.02 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

Tgt Ion: 45 Resp: 72017
 Ion Ratio Lower Upper
 45 100
 58 8.4 1.4 2.0#

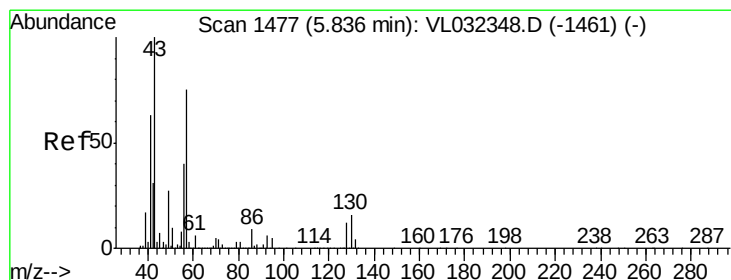
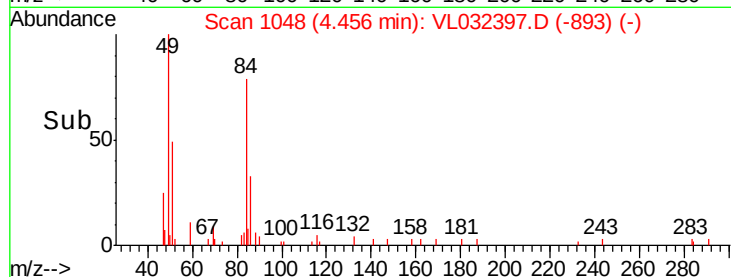
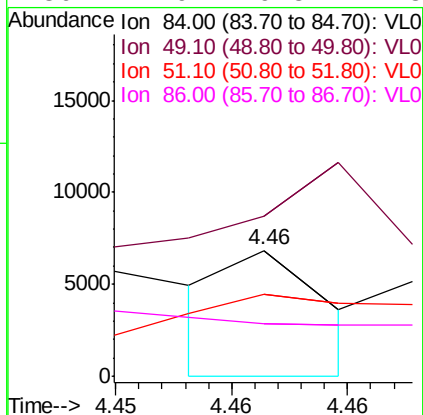
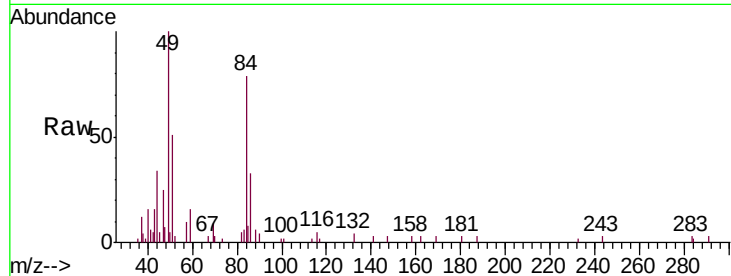




#20
Methylene Chloride
Concen: 0.032 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. -0.00 min
Lab File: VL032397.D
Acq: 17 Aug 2018 4:21

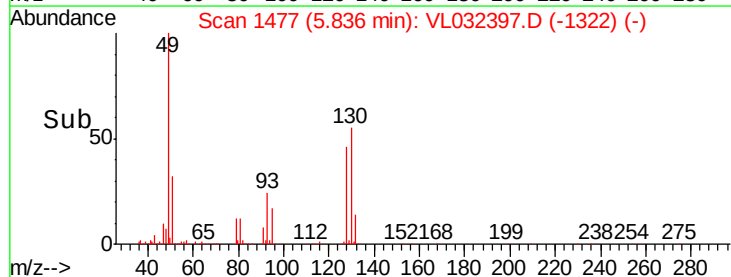
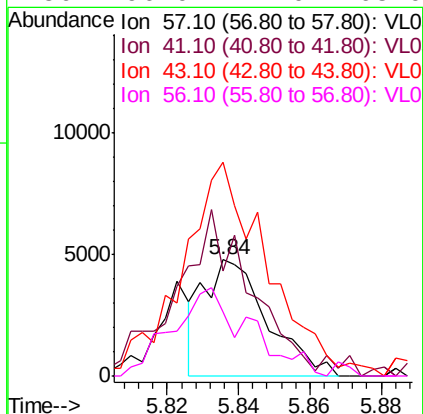
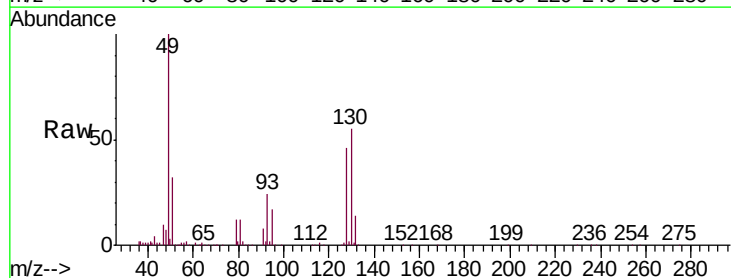
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

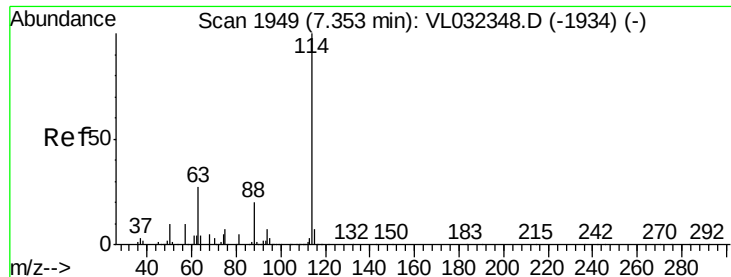
Tgt Ion:	84	Resp:	2019
Ion	Ratio	Lower	Upper
84	100		
49	24.2	117.3	175.9#
51	31.9	36.6	55.0#
86	1.9	49.8	74.8#



#26
Hexane
Concen: 0.037 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VL032397.D
Acq: 17 Aug 2018 4:21

Tgt Ion:	57	Resp:	5904
Ion	Ratio	Lower	Upper
57	100		
41	182.6	68.0	102.0#
43	261.8	175.3	262.9
56	96.0	42.0	63.0#

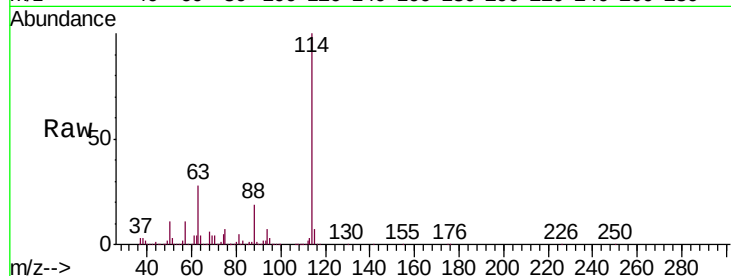




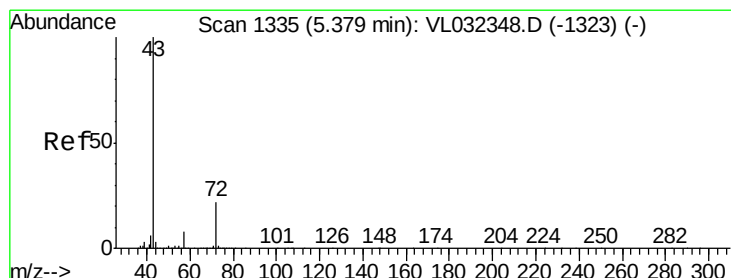
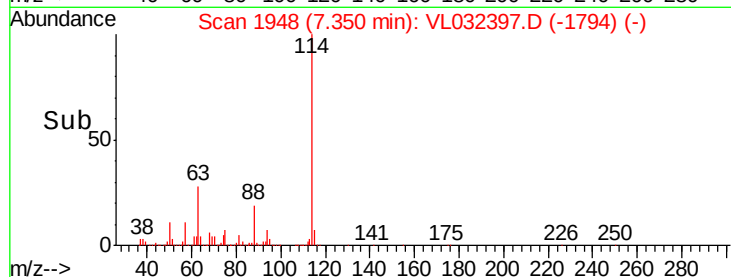
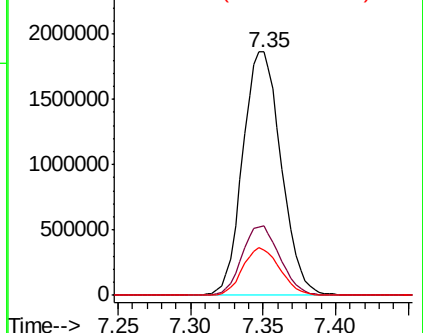
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Tgt Ion: 114 Resp: 3437240
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.0 33.0
 88 19.1 15.3 22.9

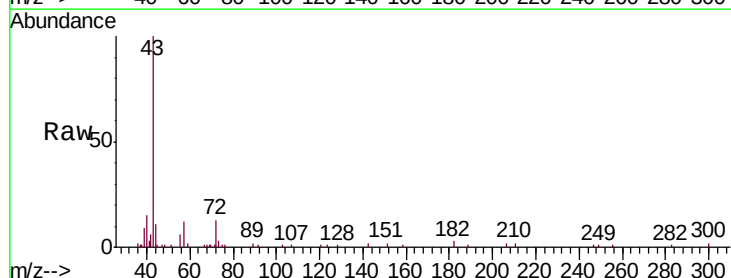


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

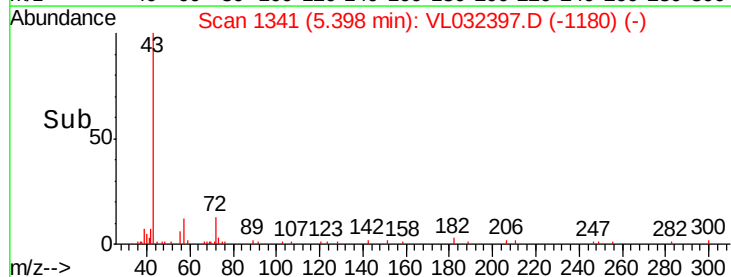
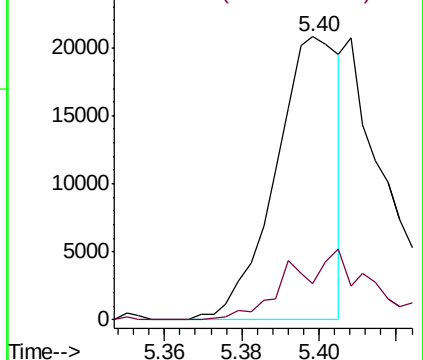


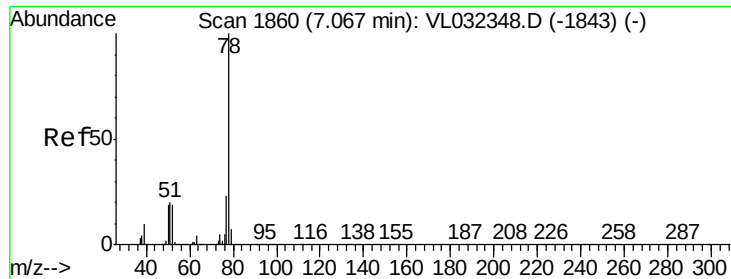
#34
 2-Butanone
 Concen: 0.101 ppbv
 RT: 5.40 min Scan# 1341
 Delta R.T. 0.02 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

Tgt Ion: 43 Resp: 23717
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.9 26.9#



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





#36

Benzene

Concen: 0.112 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

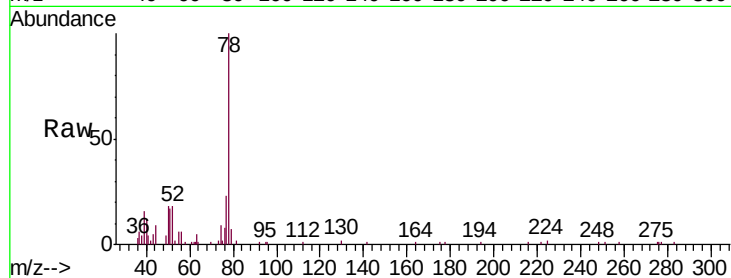
Tgt Ion: 78 Resp: 32658

Ion Ratio Lower Upper

78 100

77 23.7 18.0 27.0

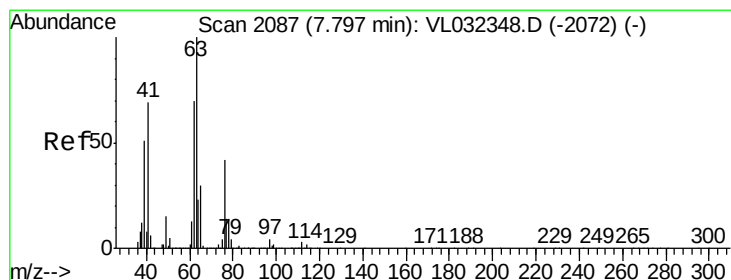
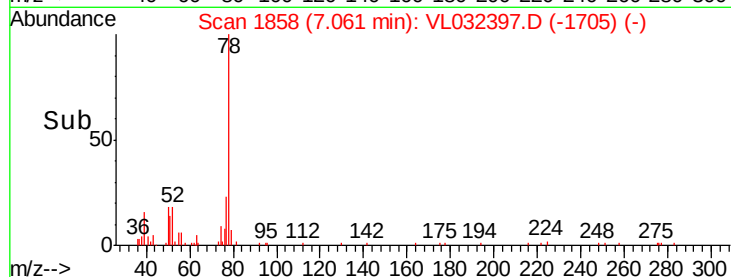
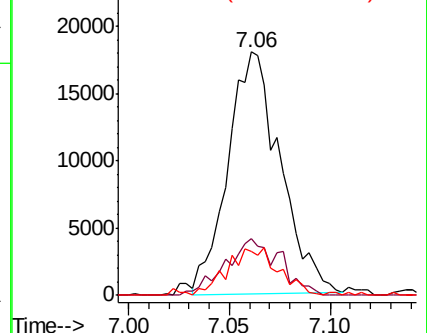
50 18.0 15.1 22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.943 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.45 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

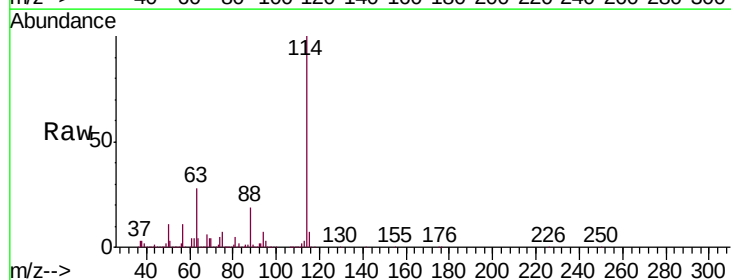
Tgt Ion: 63 Resp: 966848

Ion Ratio Lower Upper

63 100

41 0.2 55.5 83.3#

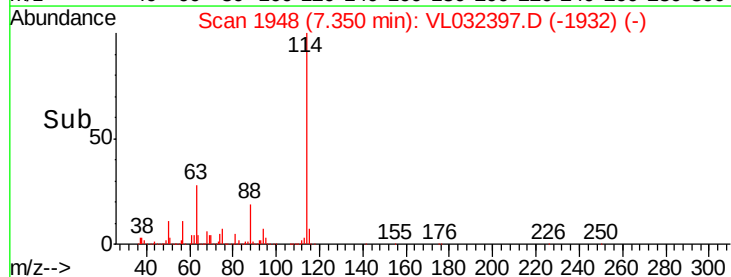
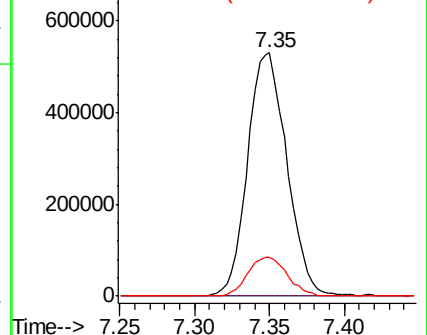
62 15.7 56.3 84.5#

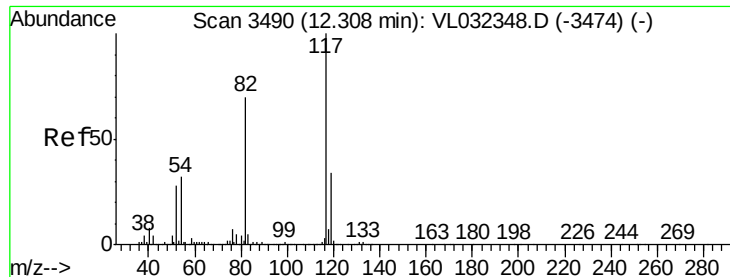


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

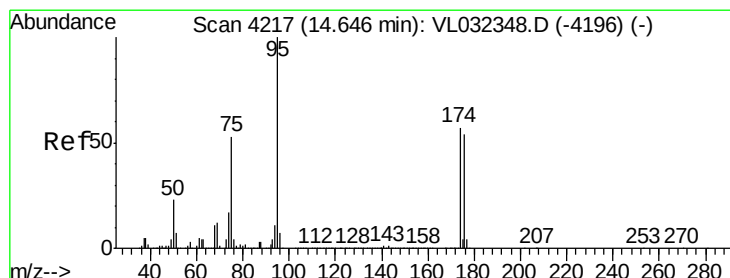
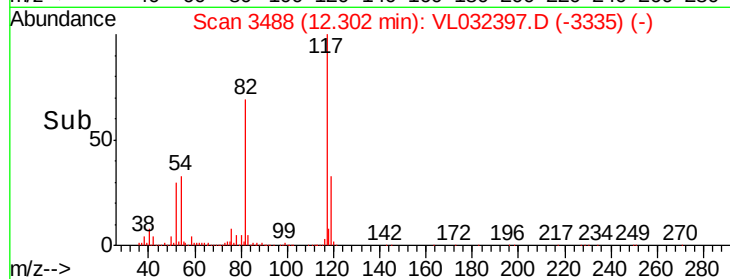
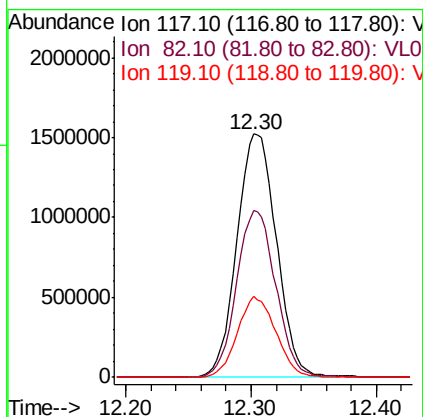
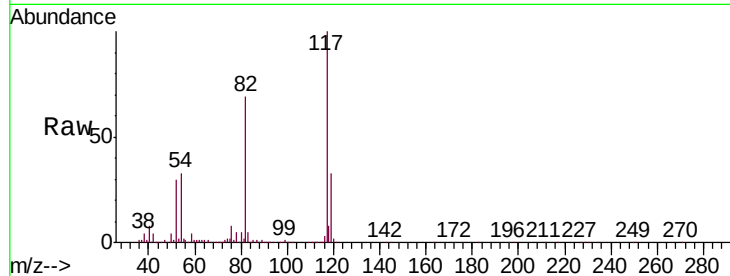




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032397.D
Acq: 17 Aug 2018 4:21

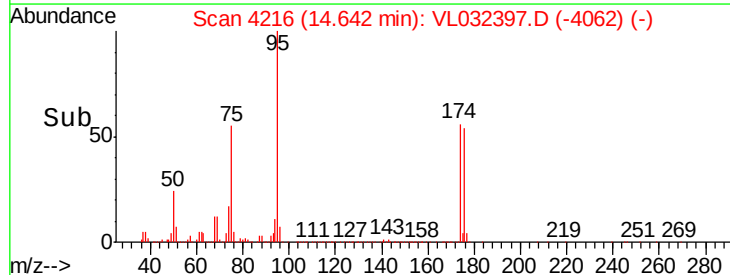
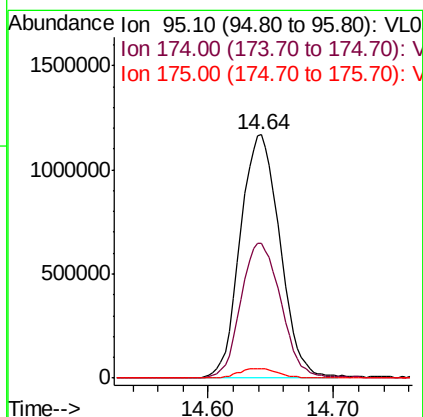
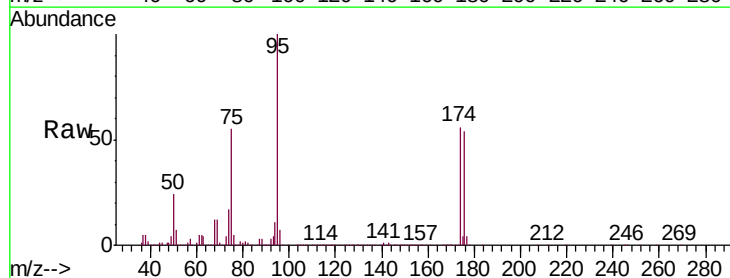
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

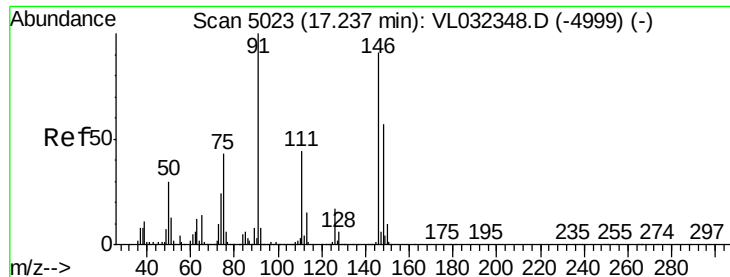
Tgt Ion: 117 Resp: 3337972
Ion Ratio Lower Upper
117 100
82 68.6 55.1 82.7
119 32.4 46.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.086 ppbv
RT: 14.64 min Scan# 4216
Delta R.T. -0.00 min
Lab File: VL032397.D
Acq: 17 Aug 2018 4:21

Tgt Ion: 95 Resp: 2568573
Ion Ratio Lower Upper
95 100
174 57.0 46.2 69.4
175 4.1 3.4 5.0

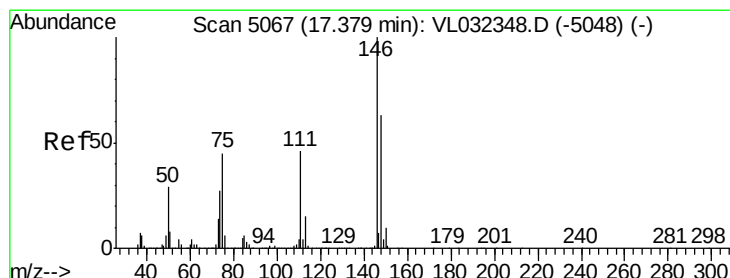
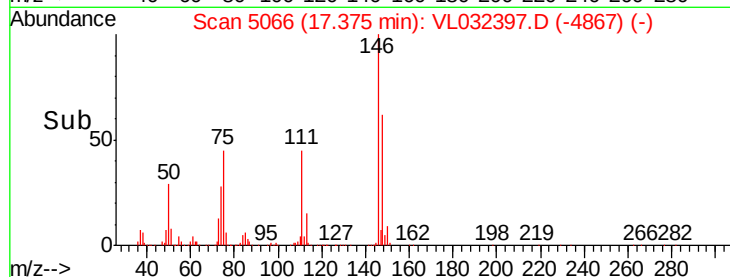
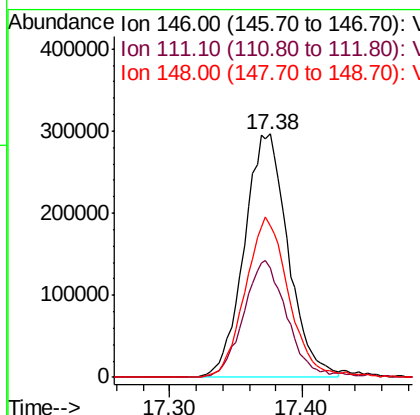
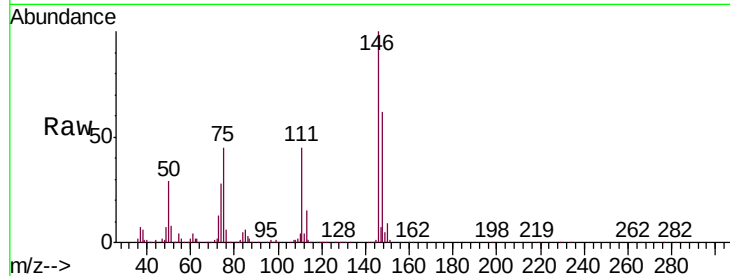




#75
 1,3-Dichlorobenzene
 Concen: 2.969 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. 0.14 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

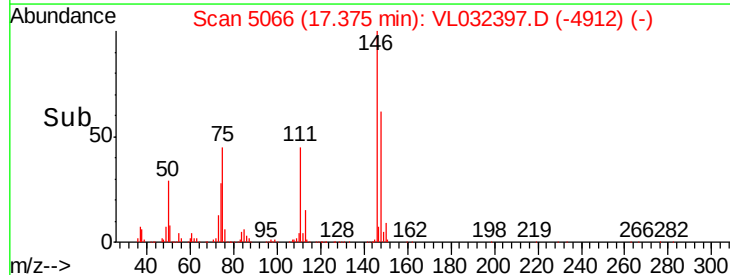
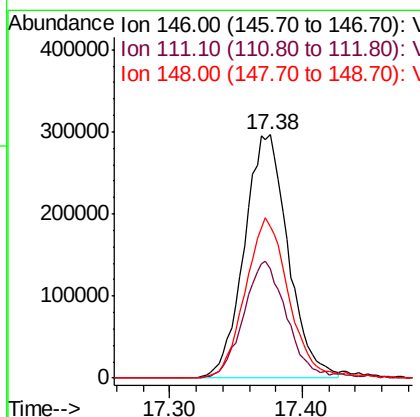
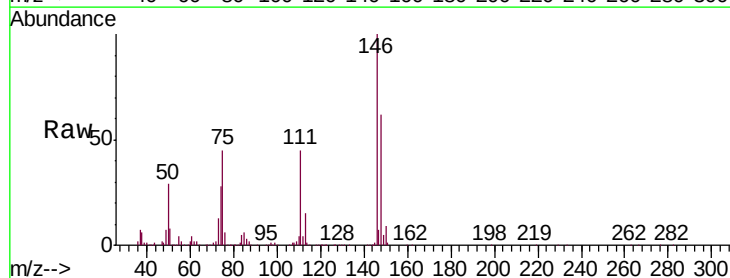
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

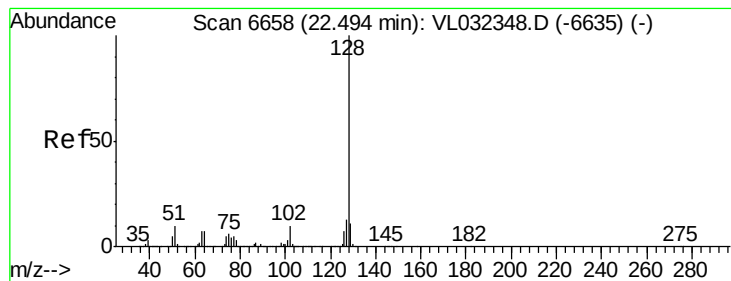
Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.6	73.8
148	65.8	32.0	96.0



#76
 1,4-Dichlorobenzene
 Concen: 3.134 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032397.D
 Acq: 17 Aug 2018 4:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	23.8	71.4
148	65.8	32.2	96.6





#79

Naphthalene

Concen: 0.330 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. -0.01 min

Lab File: VL032397.D

Acq: 17 Aug 2018 4:21

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

Tgt Ion:128 Resp: 914

Ion Ratio Lower Upper

128 100

127 81.6 10.3 15.5#

129 15.7 8.6 13.0#

