

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL010419\
 Data File : VL033082.D
 Acq On : 5 Jan 2019 00:21
 Operator : SY/AP
 Sample : J6594-03DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVI-IA1D-2018-12-19DUP

Quant Time: Jan 05 01:52:49 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	943880	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2186054	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1985718	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1499019	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

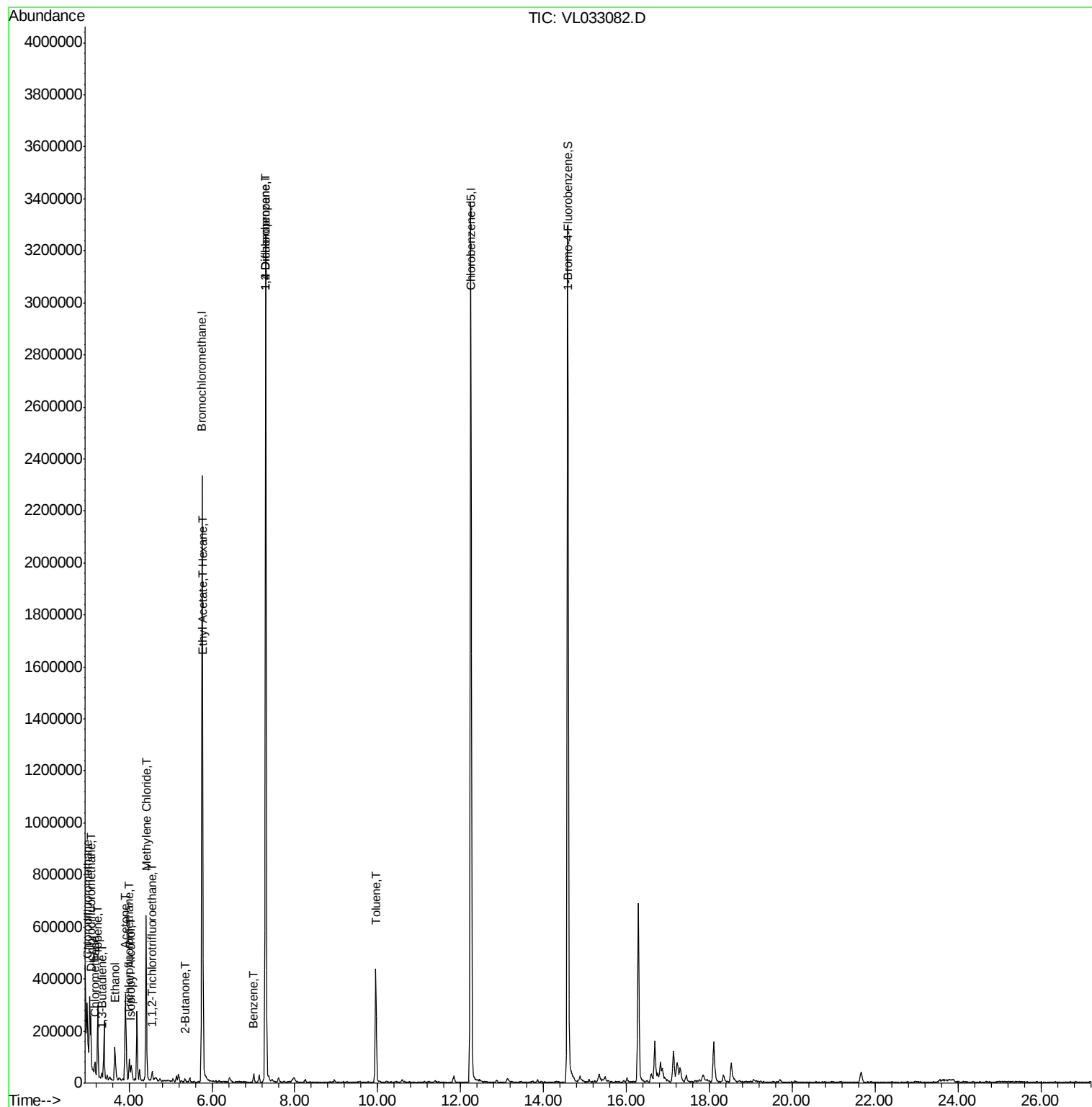
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	132460	0.754	ppbv	97
3) Chlorodifluoromethane	2.99	51	139143	1.302	ppbv #	68
4) Chloromethane	3.17	50	35703	0.583	ppbv	100
9) Propene	3.24	41	42431	1.063	ppbv	99
11) Trichlorofluoromethane	4.01	101	55279	0.285	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	6803	0.055	ppbv #	42
13) Ethanol	3.66	45	137395	8.632	ppbv	91
15) Acetone	3.91	43	350110	2.680	ppbv	95
16) 1,3-Butadiene	3.35	39	6737	0.137	ppbv #	42
19) Isopropyl Alcohol	4.05	45	64575	0.718	ppbv #	1
20) Methylene Chloride	4.41	84	211418	3.882	ppbv	96
25) Ethyl Acetate	5.79	43	61272	0.277	ppbv #	84
26) Hexane	5.78	57	71266	0.685	ppbv #	47
34) 2-Butanone	5.35	43	14412	0.113	ppbv	98
36) Benzene	7.01	78	19473	0.109	ppbv	95
39) 1,2-Dichloropropane	7.29	63	559395	8.316	ppbv #	23
53) Toluene	9.95	91	294327	1.534	ppbv	99

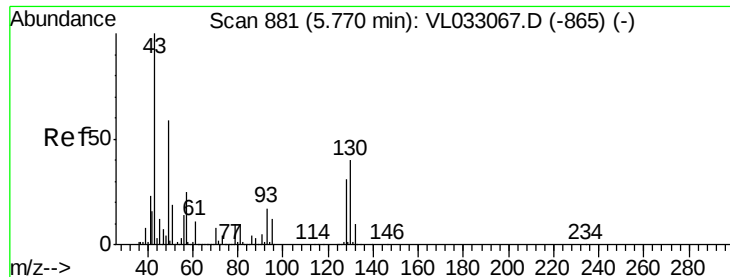
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

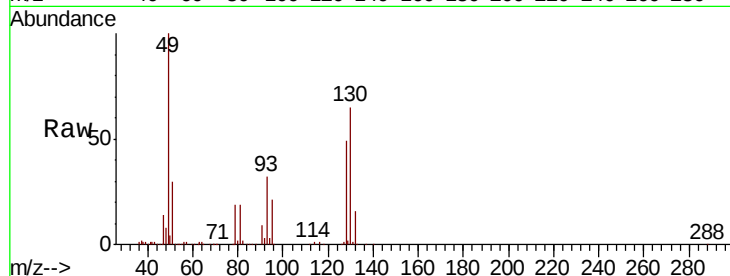
Tgt Ion: 49 Resp: 943880

Ion Ratio Lower Upper

49 100

128 51.9 26.2 78.5

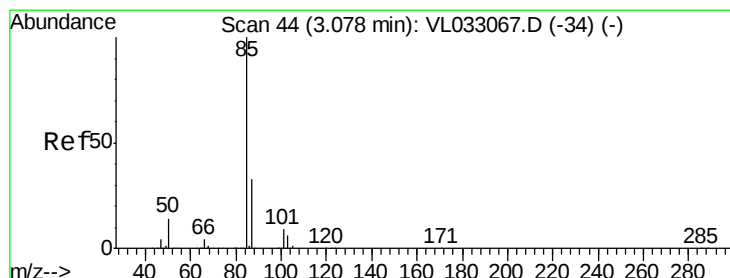
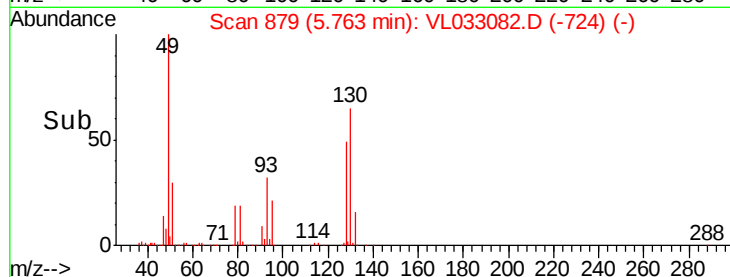
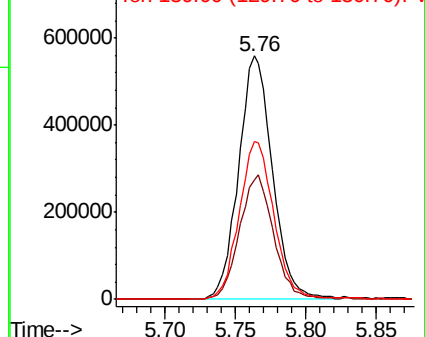
130 67.1 33.6 100.6



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



#2

Dichlorodifluoromethane

Concen: 0.754 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033082.D

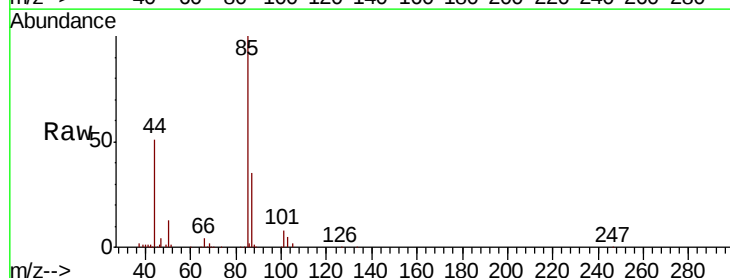
Acq: 5 Jan 2019 00:21

Tgt Ion: 85 Resp: 132460

Ion Ratio Lower Upper

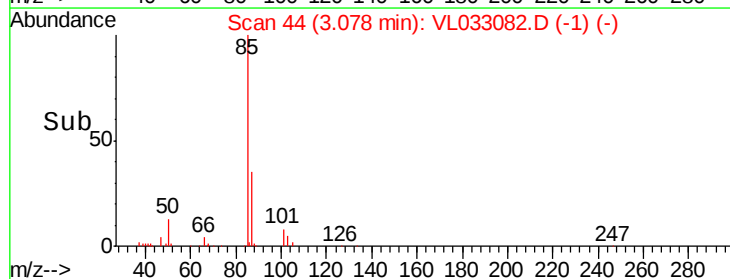
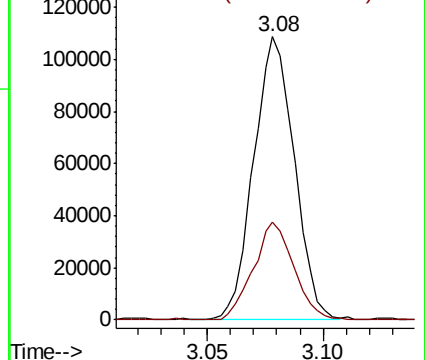
85 100

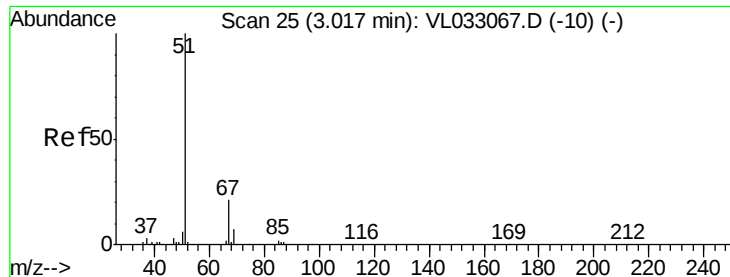
87 34.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.302 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.02 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

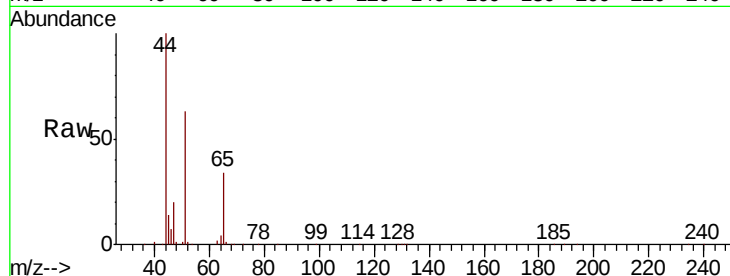
SVI-IA1D-2018-12-19DUP

Tgt Ion: 51 Resp: 139143

Ion Ratio Lower Upper

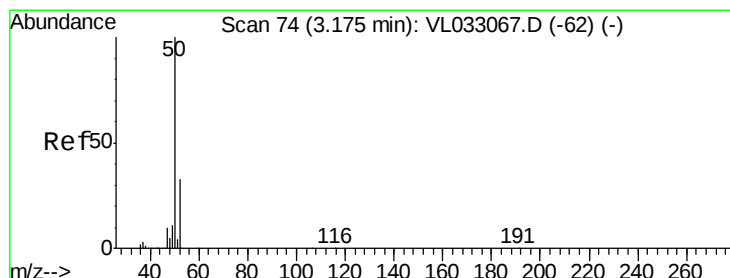
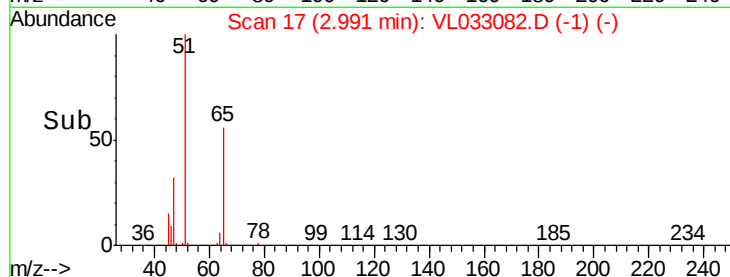
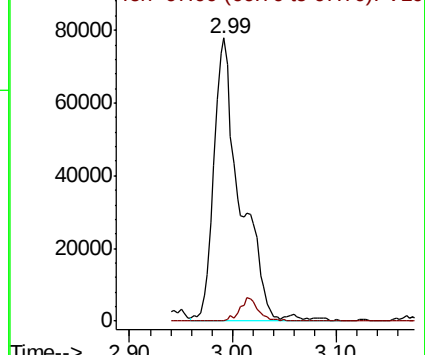
51 100

67 5.8 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: 0.583 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033082.D

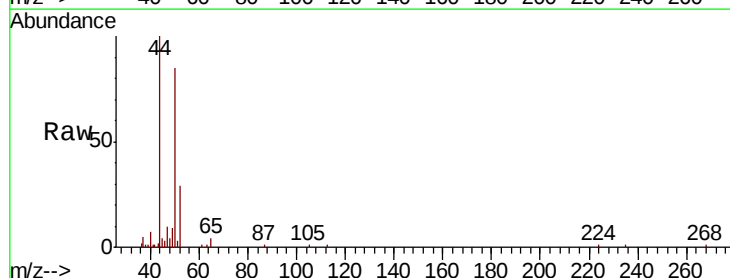
Acq: 5 Jan 2019 00:21

Tgt Ion: 50 Resp: 35703

Ion Ratio Lower Upper

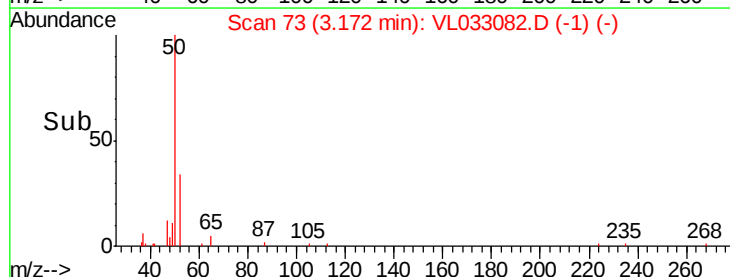
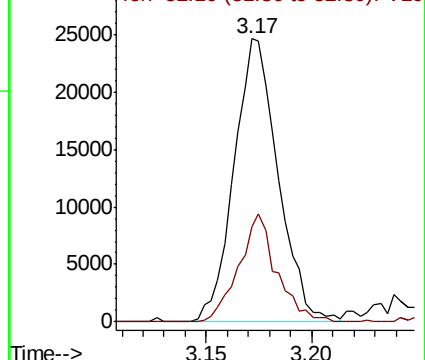
50 100

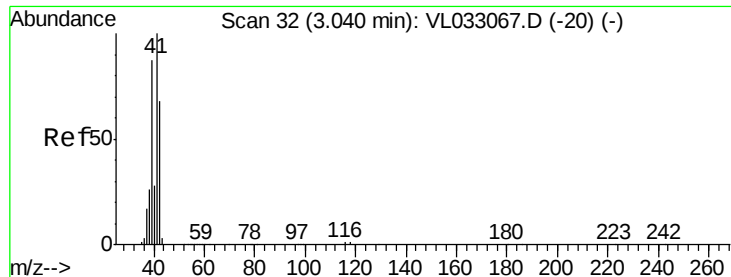
52 33.9 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.063 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

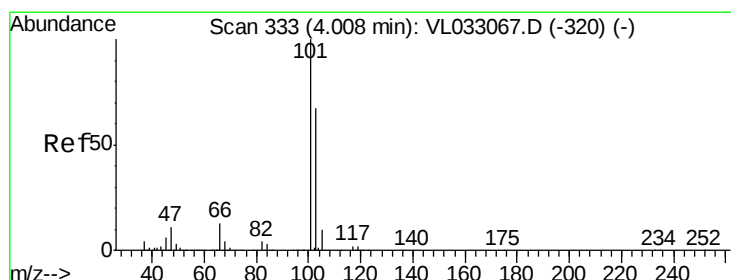
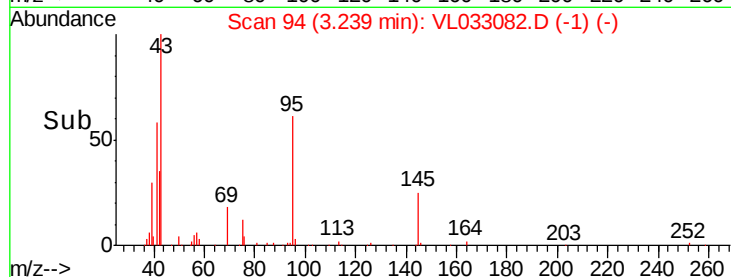
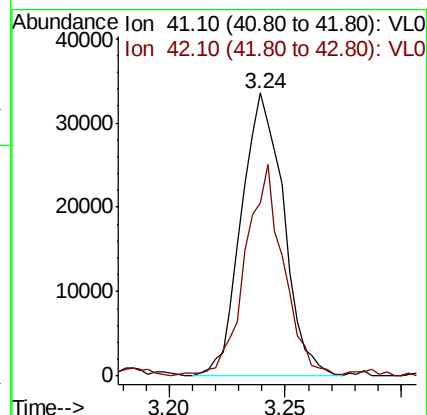
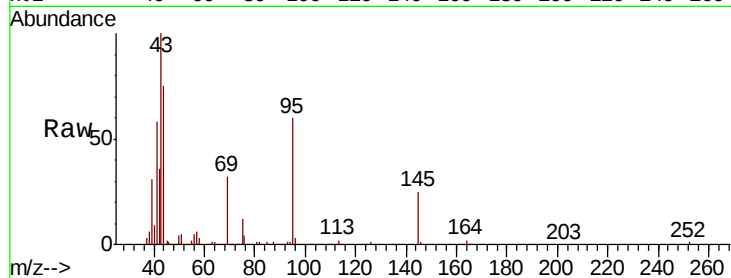
SVI-IA1D-2018-12-19DUP

Tgt Ion: 41 Resp: 42431

Ion Ratio Lower Upper

41 100

42 69.9 55.3 82.9



#11

Trichlorofluoromethane

Concen: 0.285 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033082.D

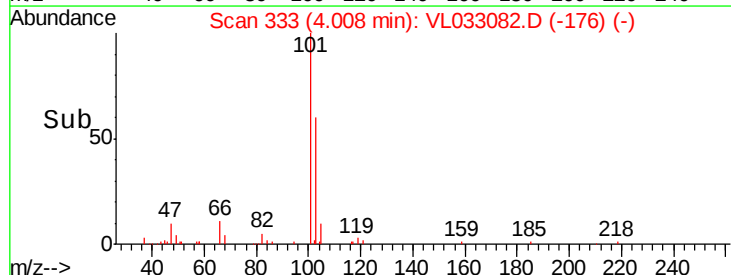
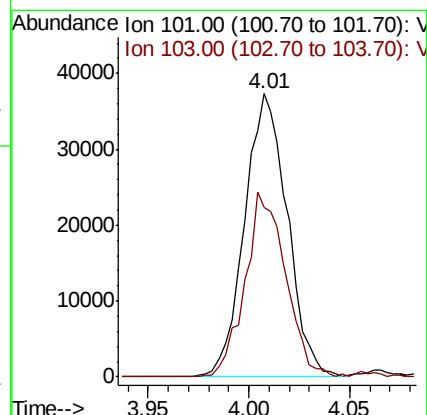
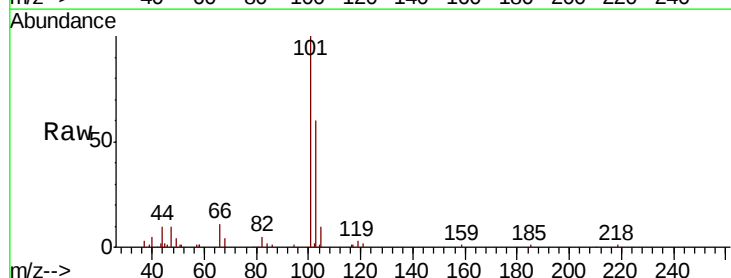
Acq: 5 Jan 2019 00:21

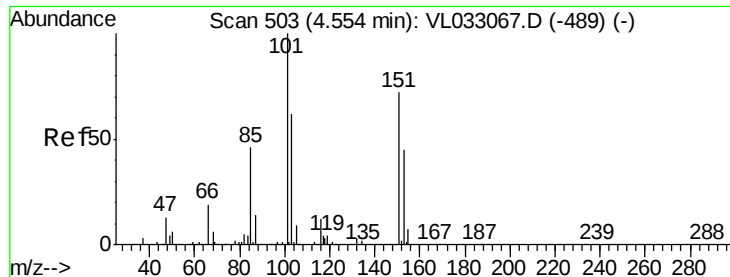
Tgt Ion: 101 Resp: 55279

Ion Ratio Lower Upper

101 100

103 60.0 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

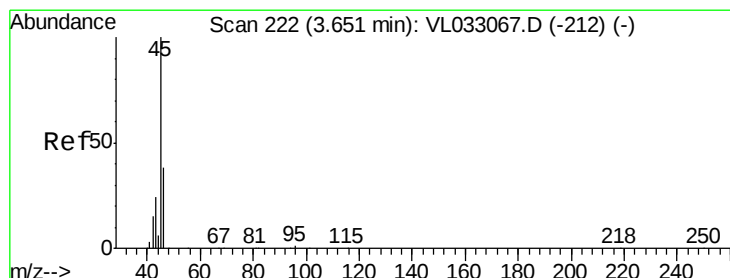
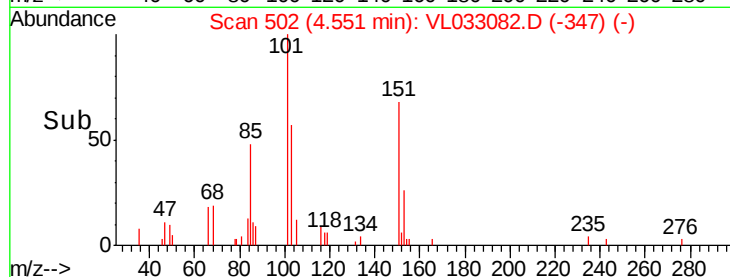
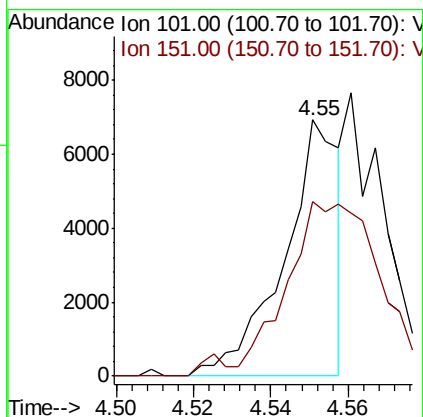
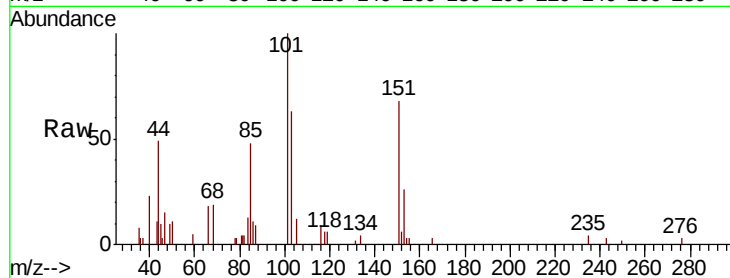
SVI-IA1D-2018-12-19DUP

Tgt Ion: 101 Resp: 6803

Ion Ratio Lower Upper

101 100

151 121.7 58.3 87.5#



#13

Ethanol

Concen: 8.632 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033082.D

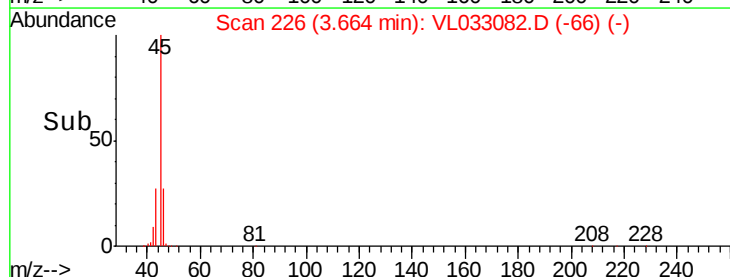
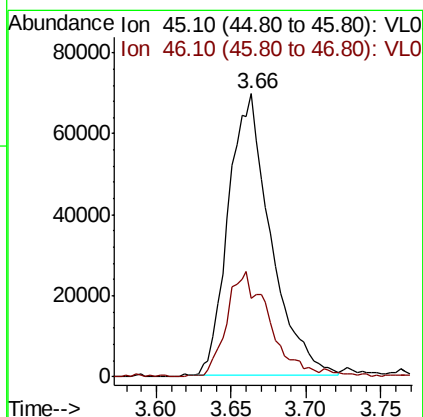
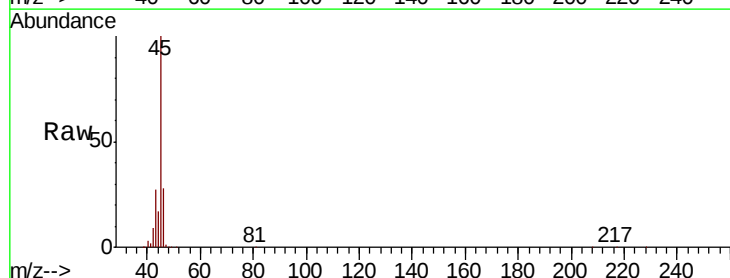
Acq: 5 Jan 2019 00:21

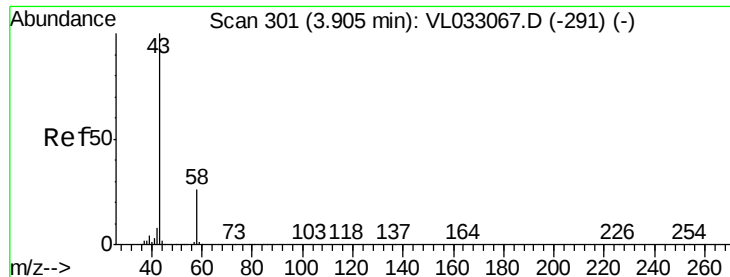
Tgt Ion: 45 Resp: 137395

Ion Ratio Lower Upper

45 100

46 39.6 13.8 55.2





#15

Acetone

Concen: 2.680 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

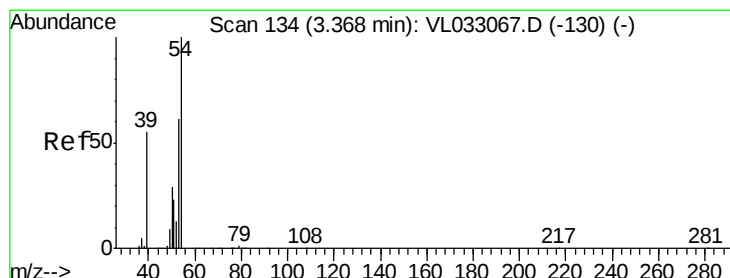
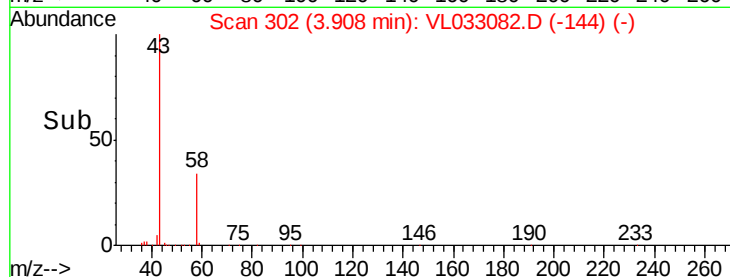
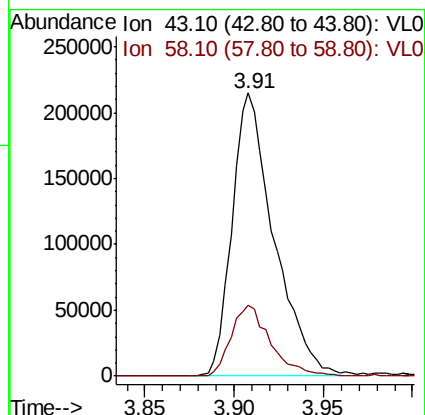
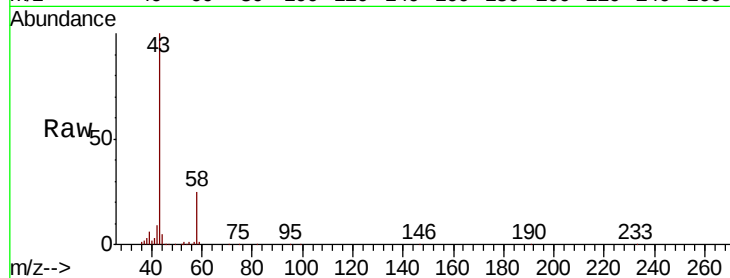
SVI-IA1D-2018-12-19DUP

Tgt Ion: 43 Resp: 350110

Ion Ratio Lower Upper

43 100

58 24.0 21.1 31.7



#16

1,3-Butadiene

Concen: 0.137 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033082.D

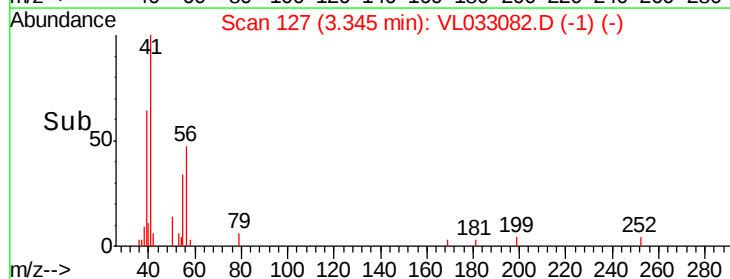
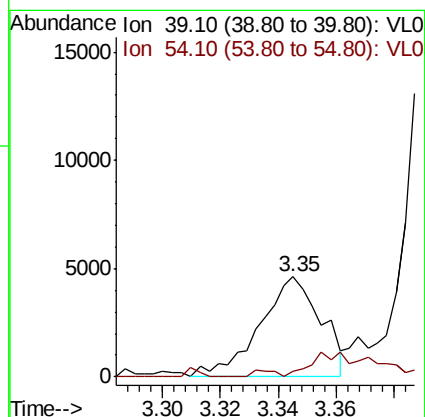
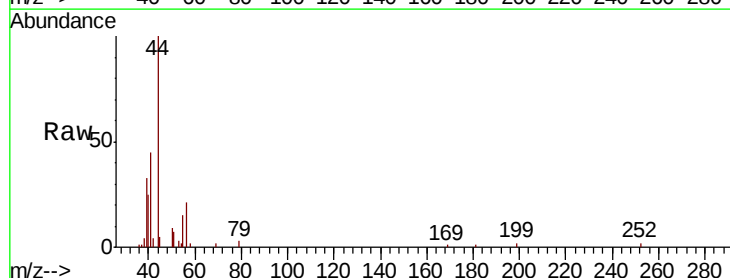
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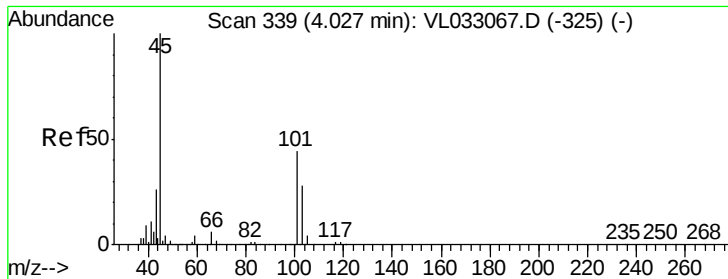
Tgt Ion: 39 Resp: 6737

Ion Ratio Lower Upper

39 100

54 36.9 73.7 110.5#

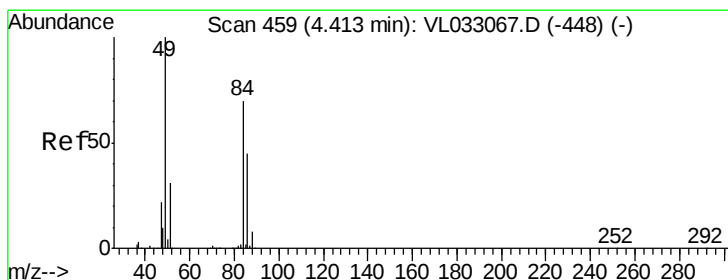
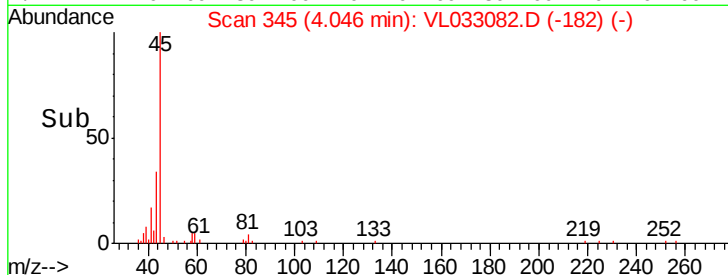
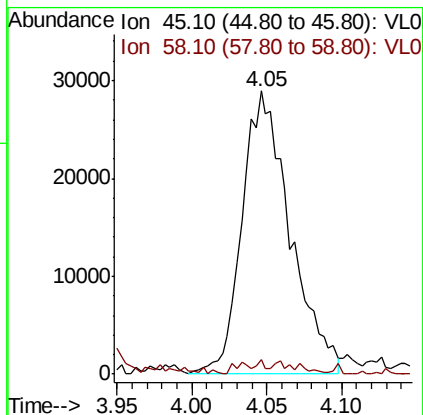
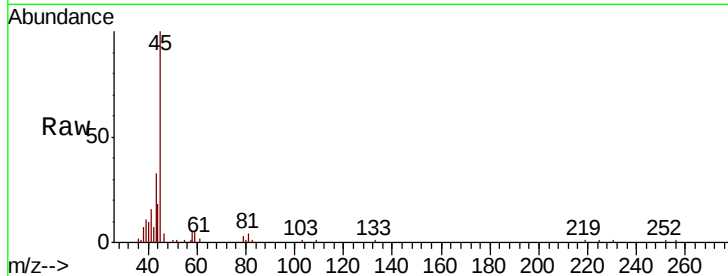




#19
Isopropyl Alcohol
Concen: 0.718 ppbv
RT: 4.05 min Scan# 345
Delta R.T. 0.02 min
Lab File: VL033082.D
Acq: 5 Jan 2019 00:21

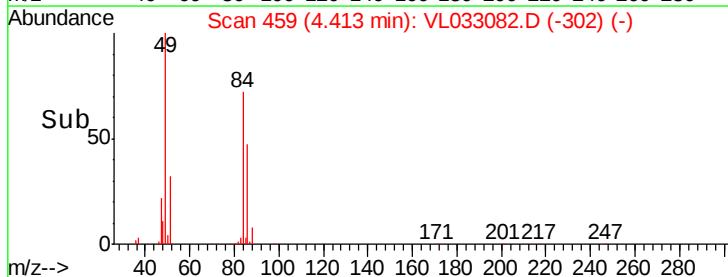
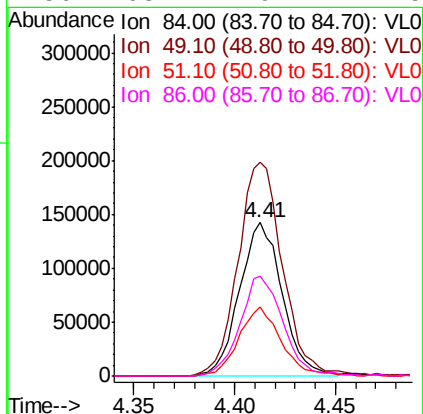
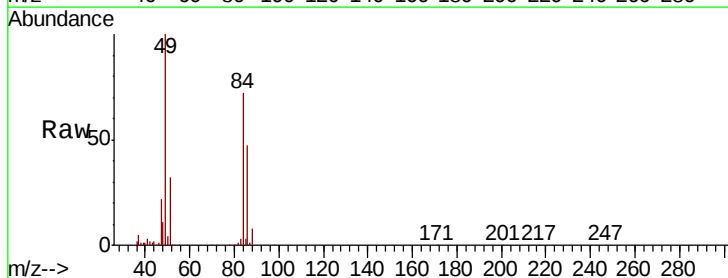
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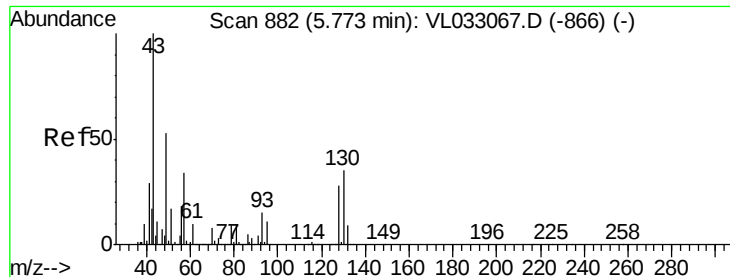
Tgt Ion: 45 Resp: 64575
Ion Ratio Lower Upper
45 100
58 128.8 1.4 2.2#



#20
Methylene Chloride
Concen: 3.882 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033082.D
Acq: 5 Jan 2019 00:21

Tgt Ion: 84 Resp: 211418
Ion Ratio Lower Upper
84 100
49 138.9 115.8 173.6
51 44.9 35.7 53.5
86 65.1 49.7 74.5

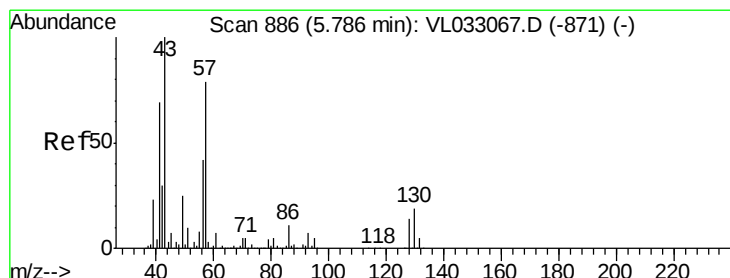
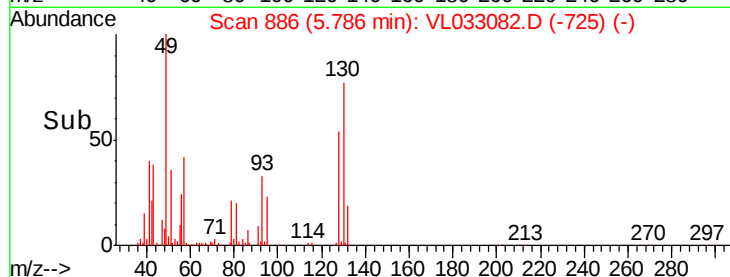
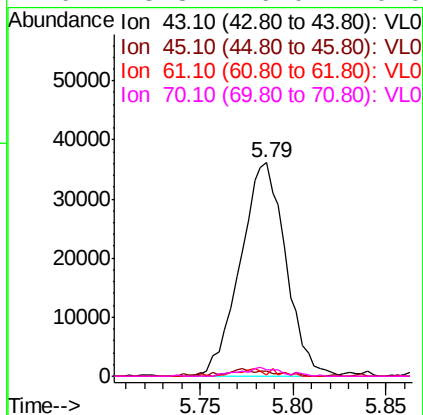
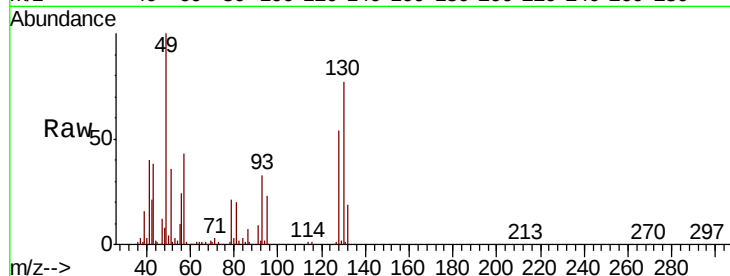




#25
Ethyl Acetate
Concen: 0.277 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.02 min
Lab File: VL033082.D
Acq: 5 Jan 2019 00:21

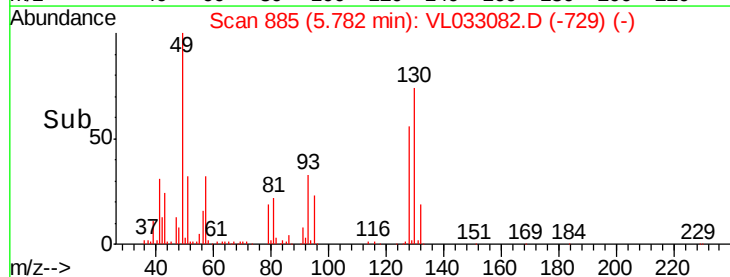
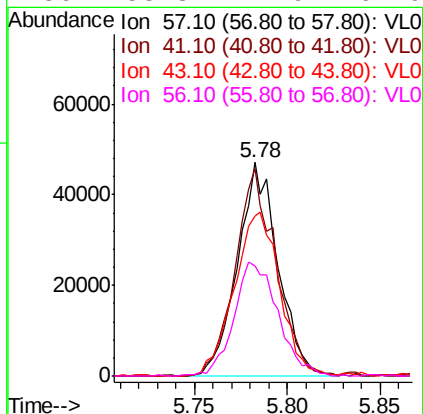
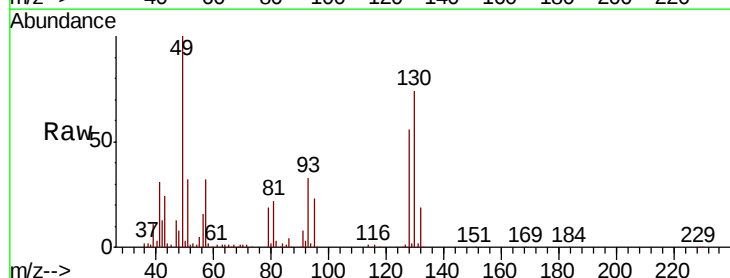
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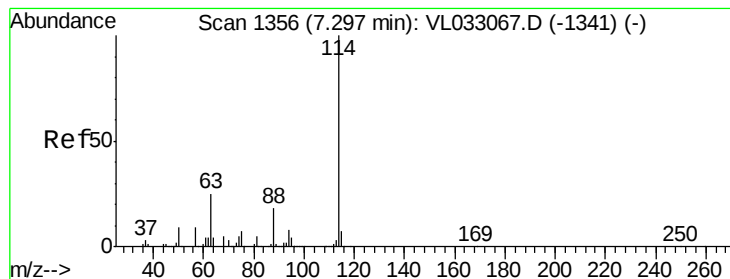
Tgt Ion:	43	Resp:	61272
Ion	Ratio	Lower	Upper
43	100		
45	3.7	7.9	11.9#
61	2.8	7.8	11.8#
70	3.8	6.0	9.0#



#26
Hexane
Concen: 0.685 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033082.D
Acq: 5 Jan 2019 00:21

Tgt Ion:	57	Resp:	71266
Ion	Ratio	Lower	Upper
57	100		
41	99.0	70.8	106.2
43	87.0	171.8	257.6#
56	58.3	41.9	62.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

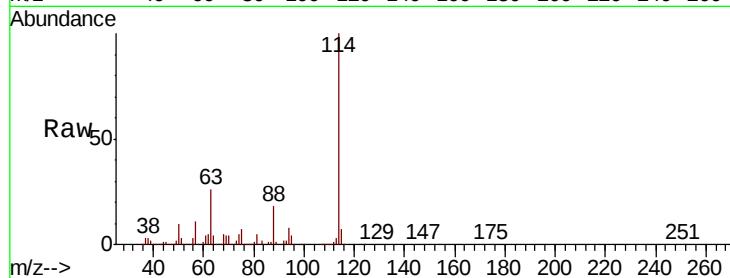
Tgt Ion:114 Resp: 2186054

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

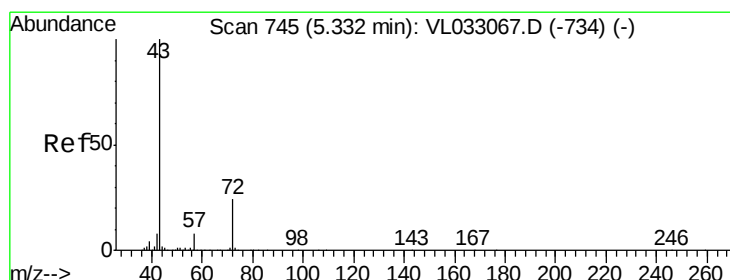
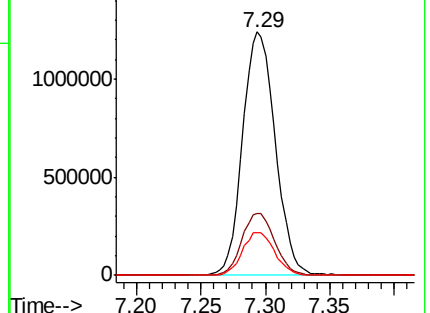
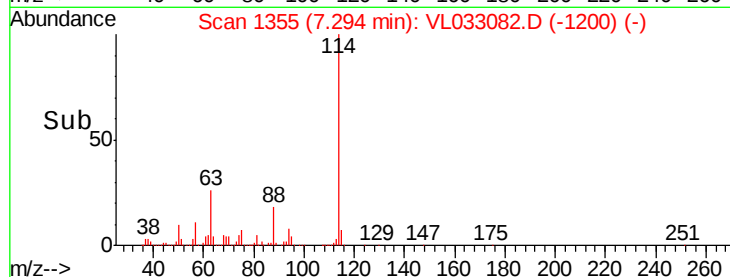
88 17.6 14.0 21.0



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: 0.113 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.02 min

Lab File: VL033082.D

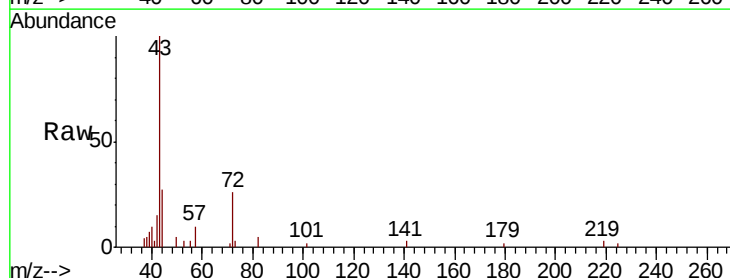
Acq: 5 Jan 2019 00:21

Tgt Ion: 43 Resp: 14412

Ion Ratio Lower Upper

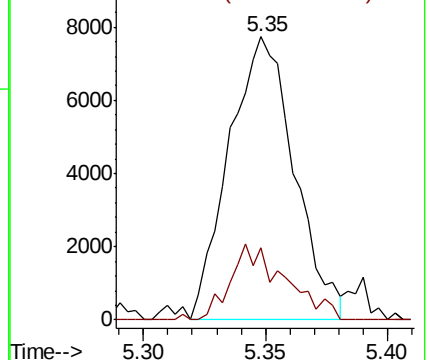
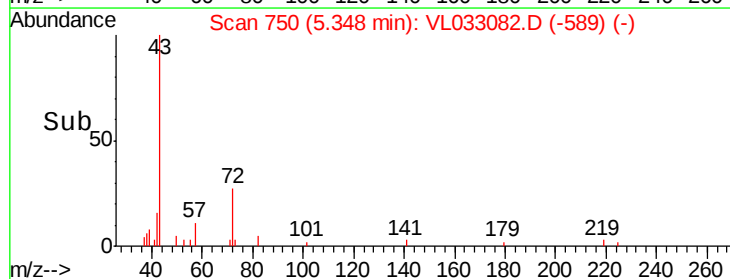
43 100

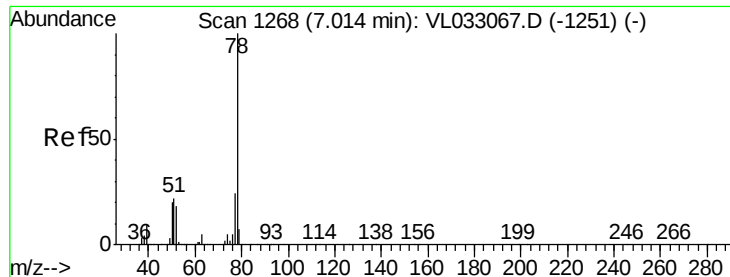
72 22.6 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.109 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

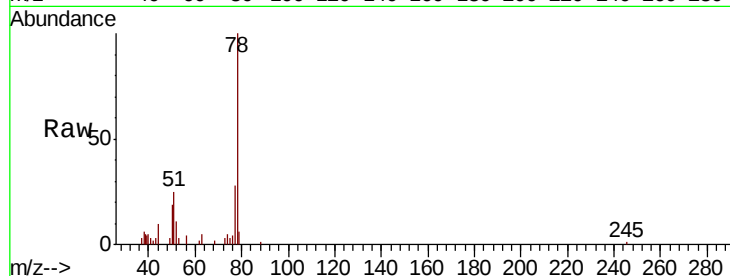
Tgt Ion: 78 Resp: 19473

Ion Ratio Lower Upper

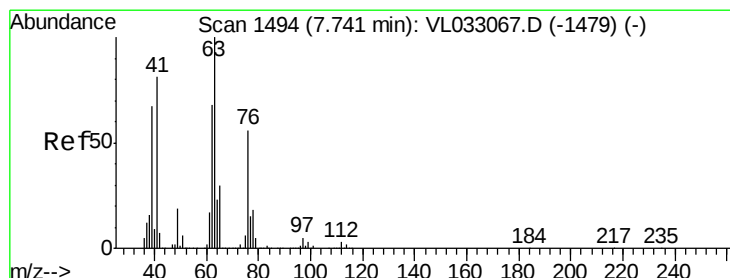
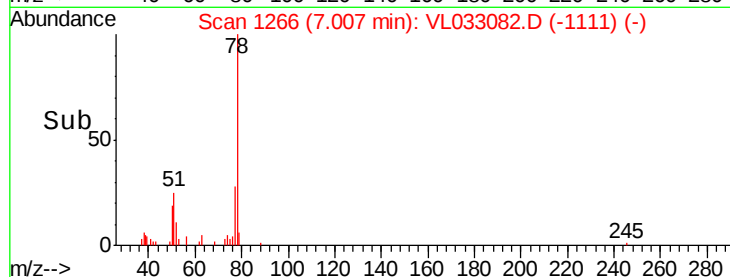
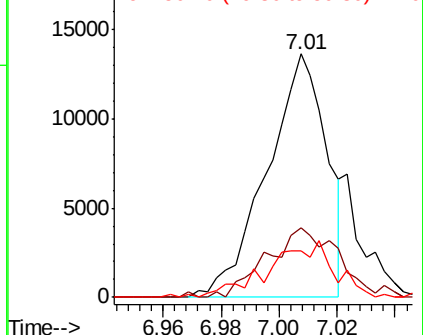
78 100

77 26.0 18.5 27.7

50 17.5 15.7 23.5



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: 8.316 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

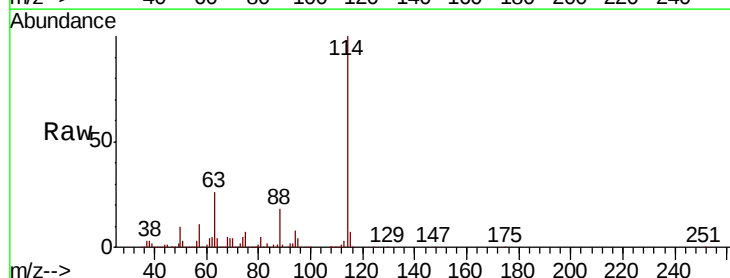
Tgt Ion: 63 Resp: 559395

Ion Ratio Lower Upper

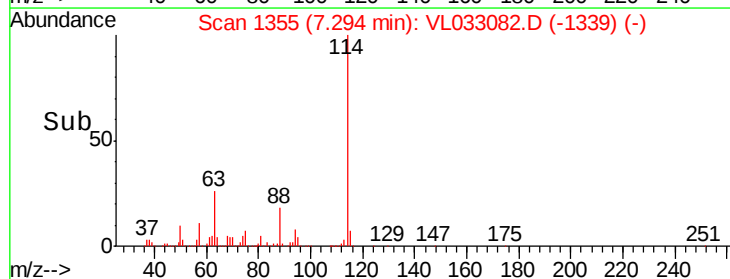
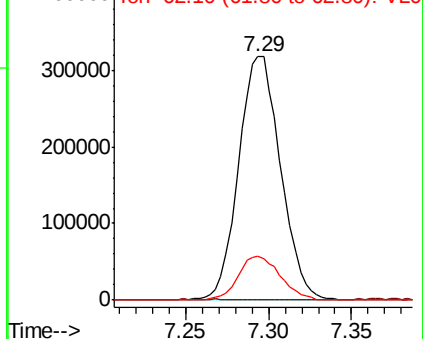
63 100

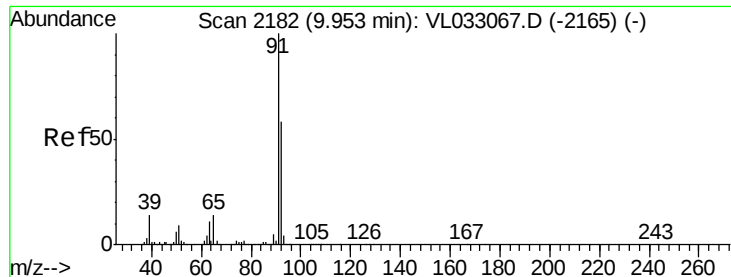
41 0.0 61.9 92.9#

62 17.8 55.8 83.6#



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





#53

Toluene

Concen: 1.534 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

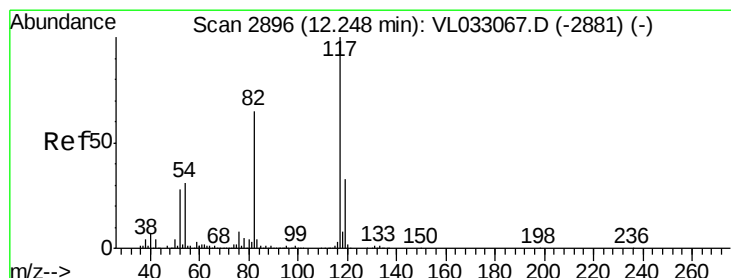
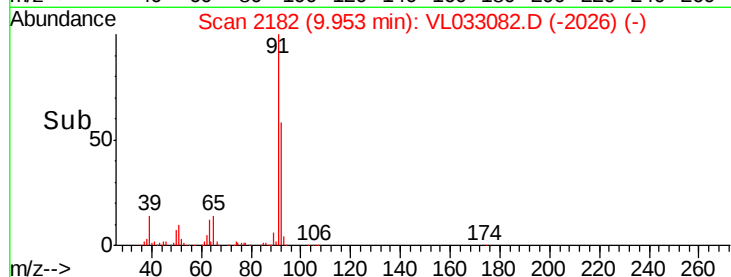
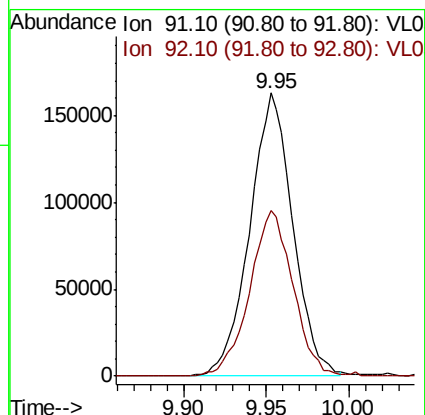
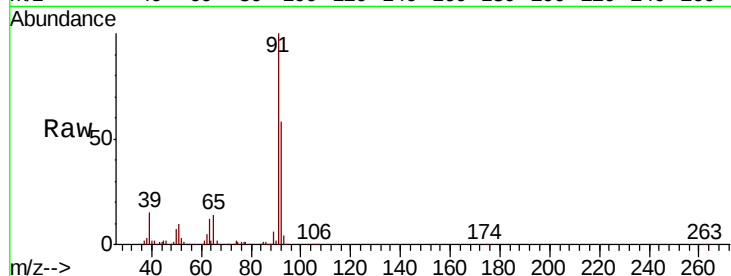
SVI-IA1D-2018-12-19DUP

Tgt Ion: 91 Resp: 294327

Ion Ratio Lower Upper

91 100

92 59.0 47.7 71.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

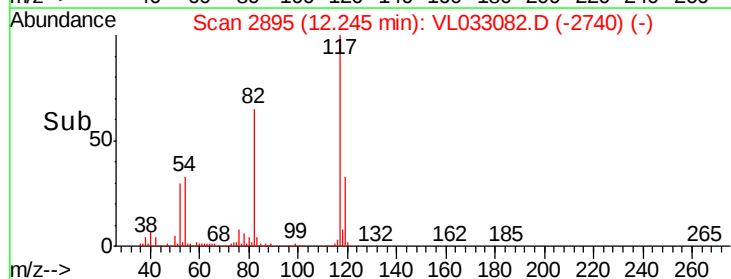
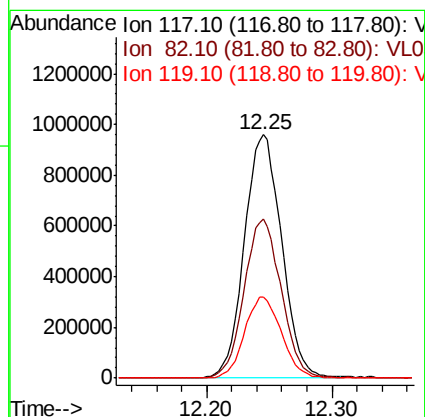
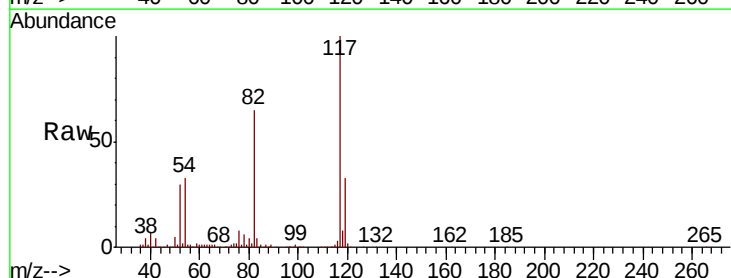
Tgt Ion: 117 Resp: 1985718

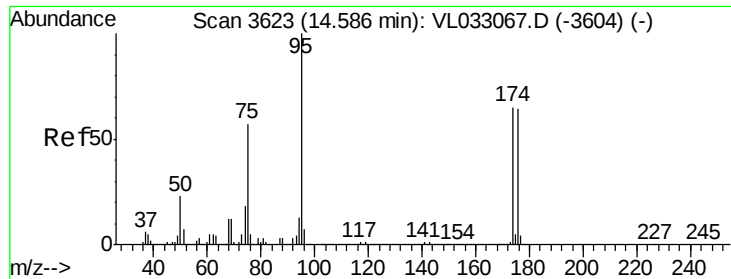
Ion Ratio Lower Upper

117 100

82 65.4 48.9 73.3

119 33.1 24.6 37.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.848 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033082.D

Acq: 5 Jan 2019 00:21

Instrument :

MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

Tgt Ion: 95 Resp: 1499019

Ion Ratio Lower Upper

95 100

174 64.6 51.9 77.9

175 4.8 3.9 5.9

