

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL010419\
 Data File : VL033081.D
 Acq On : 4 Jan 2019 23:41
 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 01:52:39 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	940552	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2195211	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2044976	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1553958	9.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

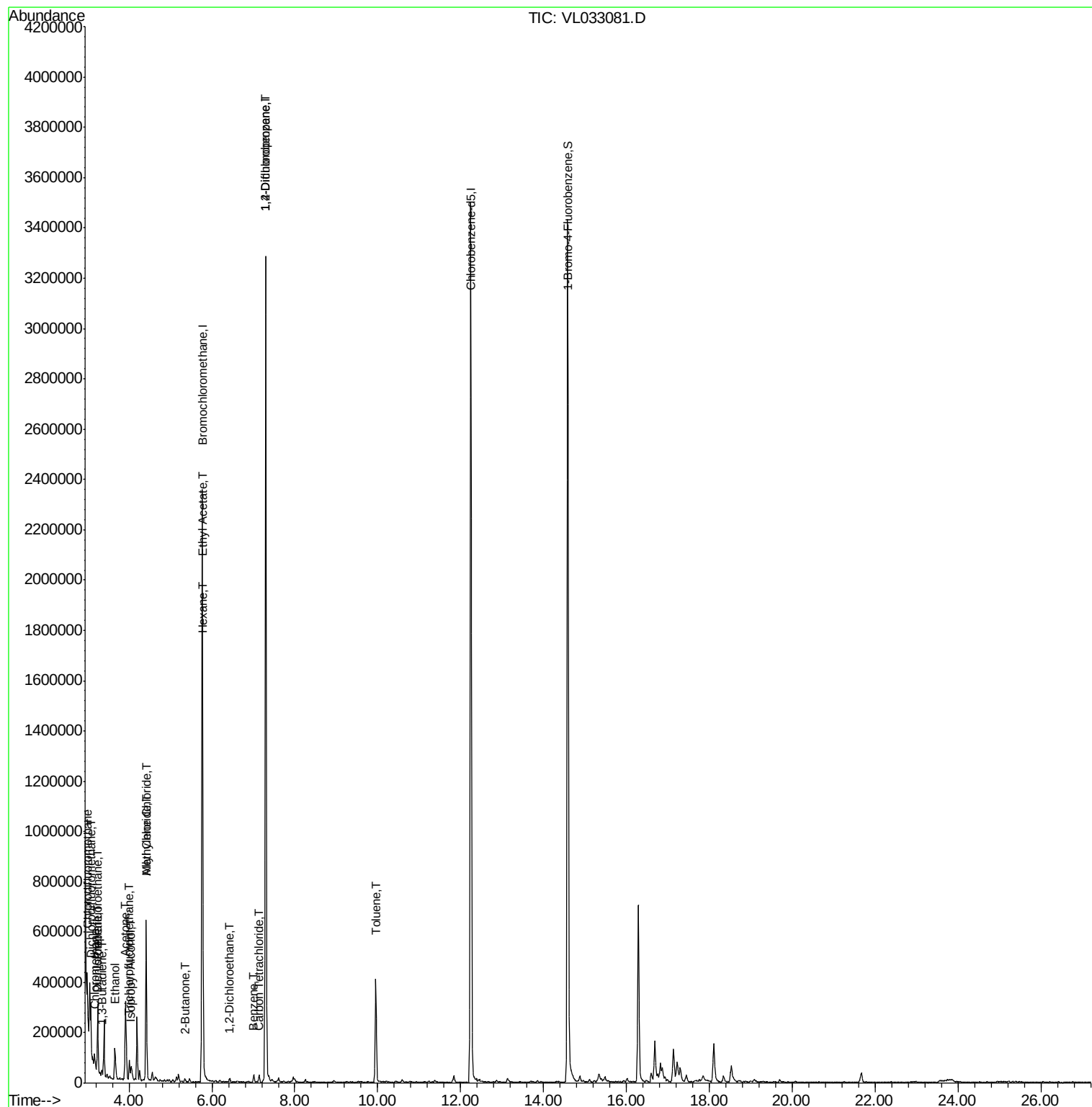
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	132468	0.757	ppbv	92
3) Chlorodifluoromethane	2.99	51	128659	1.208	ppbv #	70
4) Chloromethane	3.17	50	35675	0.585	ppbv	90
8) Dichlorotetrafluoroethane	3.22	85	5083	0.034	ppbv	90
9) Propene	3.24	41	40623	1.021	ppbv	98
11) Trichlorofluoromethane	4.01	101	52336	0.271	ppbv	92
13) Ethanol	3.66	45	64674	4.078	ppbv #	25
15) Acetone	3.91	43	336072	2.581	ppbv	92
16) 1,3-Butadiene	3.35	39	6729	0.137	ppbv #	40
19) Isopropyl Alcohol	4.05	45	47666	0.532	ppbv #	95
20) Methylene Chloride	4.42	84	212715	3.919	ppbv	99
21) Allyl Chloride	4.42	41	7700	0.095	ppbv #	34
25) Ethyl Acetate	5.78	43	56512	0.257	ppbv #	85
26) Hexane	5.79	57	63672	0.614	ppbv #	45
34) 2-Butanone	5.34	43	7979	0.063	ppbv #	42
35) Carbon Tetrachloride	7.14	117	14218	0.075	ppbv #	86
36) Benzene	7.01	78	20702	0.115	ppbv #	95
37) 1,2-Dichloroethane	6.42	62	3804	0.030	ppbv #	93
39) 1,2-Dichloropropane	7.30	63	570209	8.441	ppbv #	22
53) Toluene	9.95	91	280490	1.456	ppbv	97

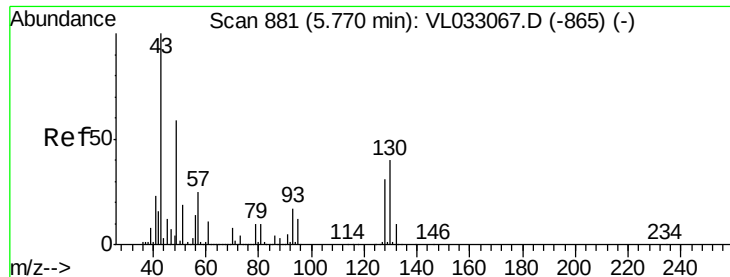
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
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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# 879

Delta R.T. -0.00 min

Lab File: VL033081.D

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MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

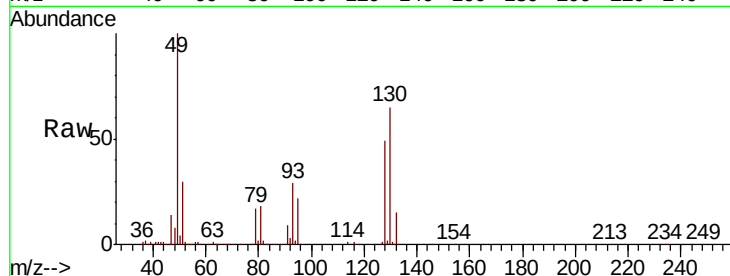
Tgt Ion: 49 Resp: 940552

Ion Ratio Lower Upper

49 100

128 52.1 26.2 78.5

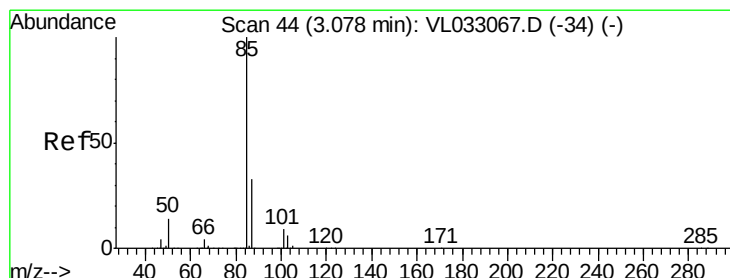
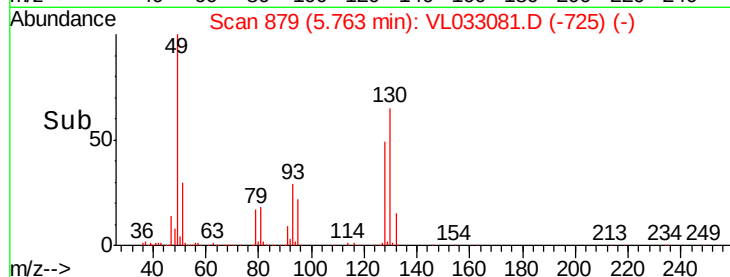
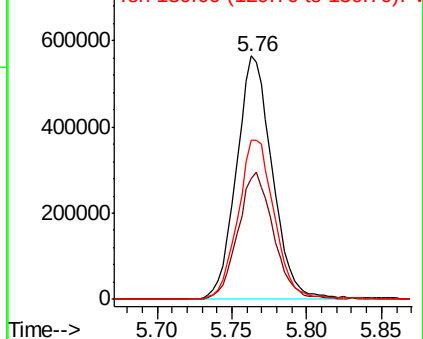
130 67.2 33.6 100.6



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: 0.757 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033081.D

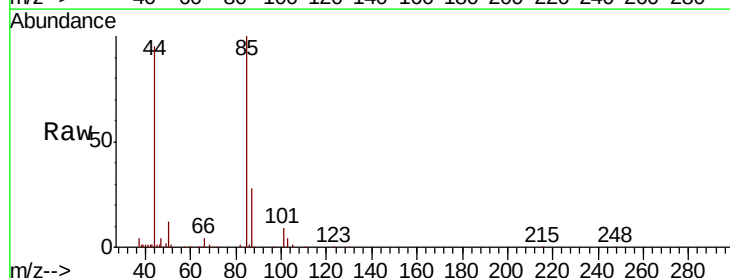
Acq: 4 Jan 2019 23:41

Tgt Ion: 85 Resp: 132468

Ion Ratio Lower Upper

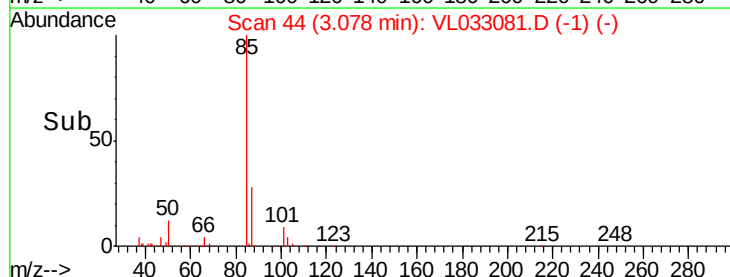
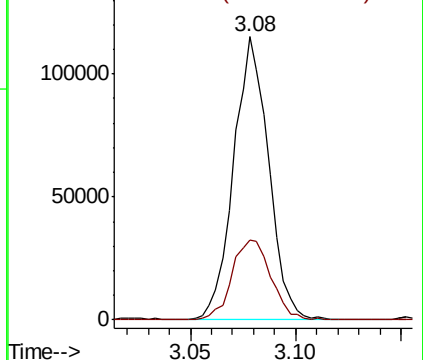
85 100

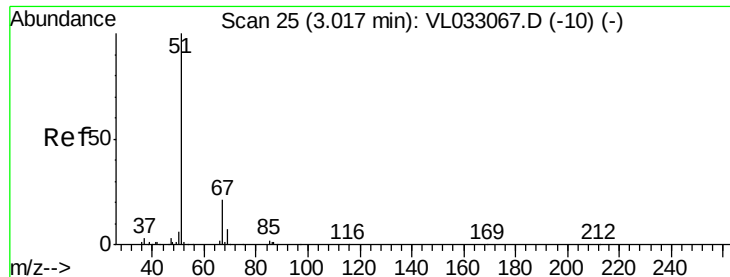
87 28.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.208 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.02 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

MSVOA_L

ClientSampleId :

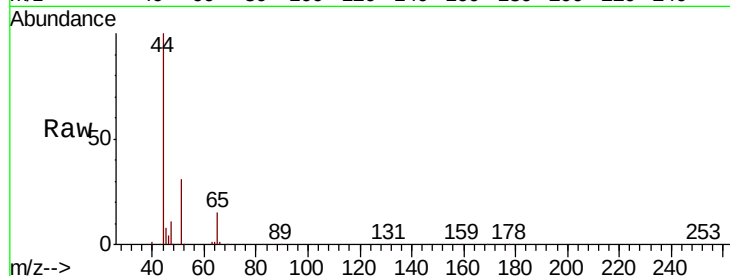
SVI-IA1D-2018-12-19DUP

Tgt Ion: 51 Resp: 128659

Ion Ratio Lower Upper

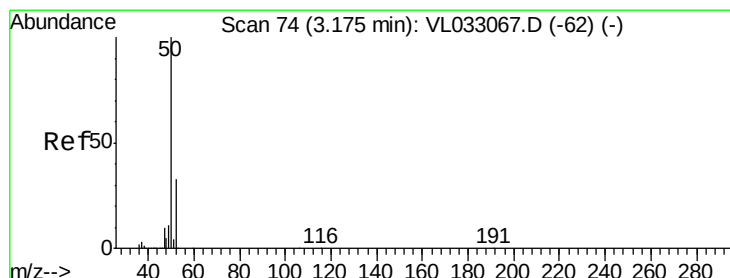
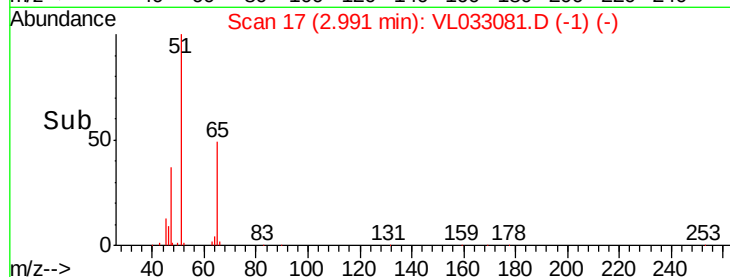
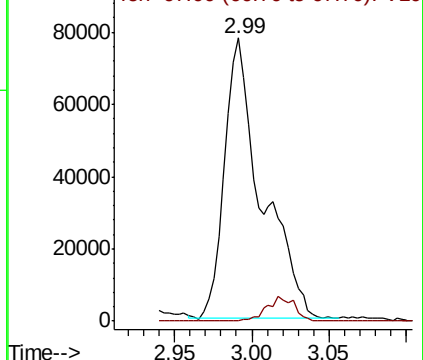
51 100

67 6.7 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: 0.585 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033081.D

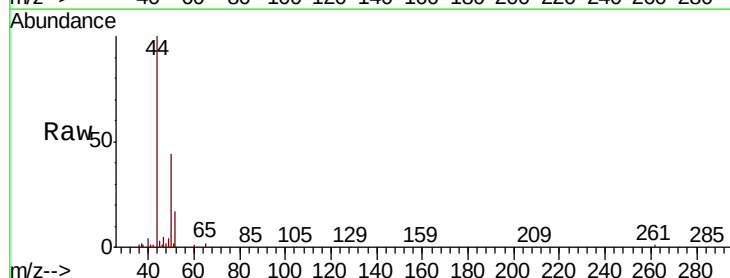
Acq: 4 Jan 2019 23:41

Tgt Ion: 50 Resp: 35675

Ion Ratio Lower Upper

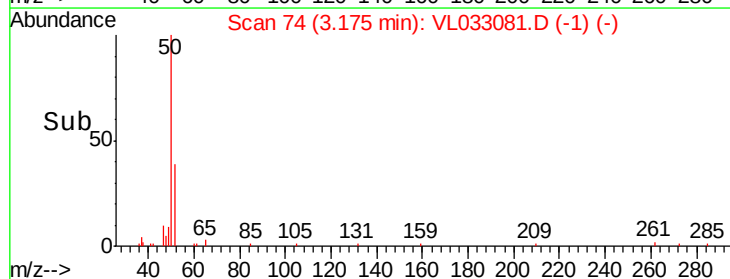
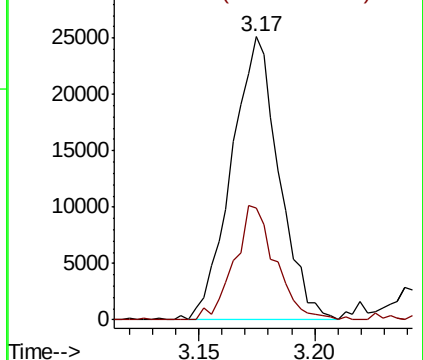
50 100

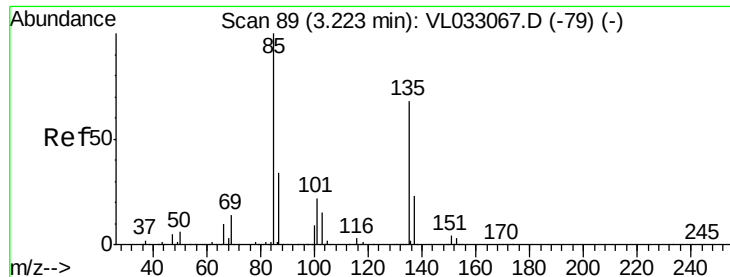
52 39.4 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.034 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

MSVOA_L

ClientSampleId :

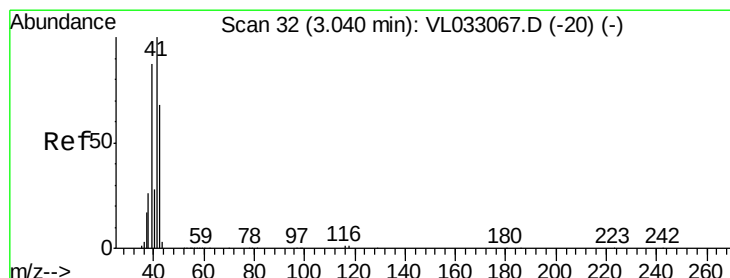
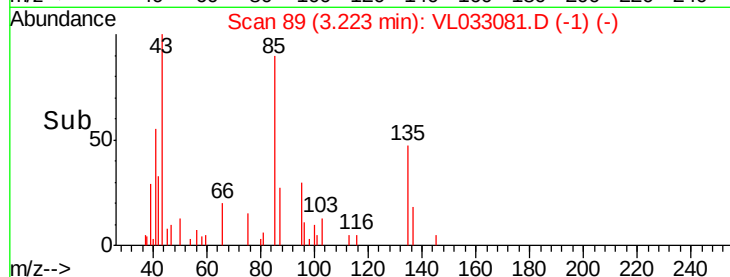
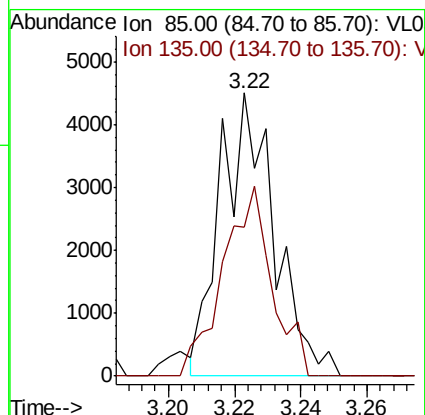
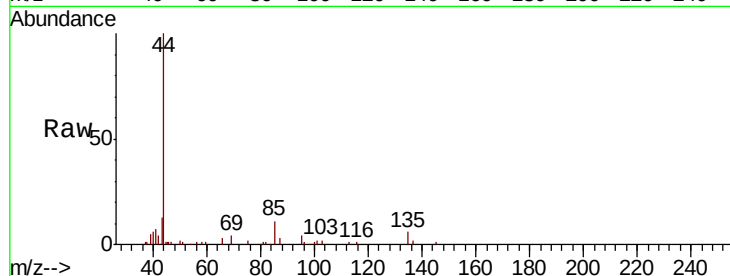
SVI-IA1D-2018-12-19DUP

Tgt Ion: 85 Resp: 5083

Ion Ratio Lower Upper

85 100

135 60.7 54.9 82.3



#9

Propene

Concen: 1.021 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.21 min

Lab File: VL033081.D

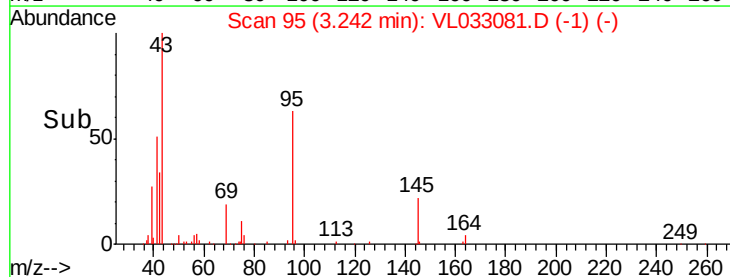
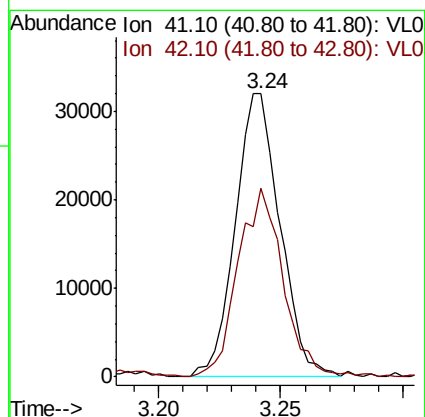
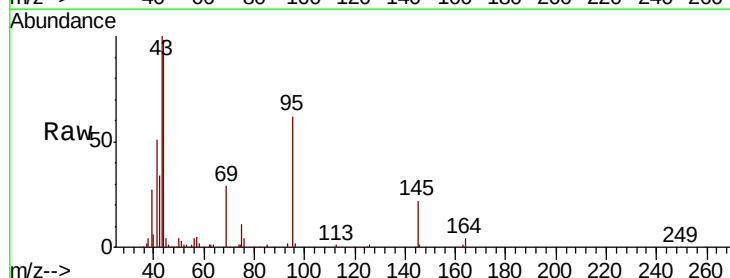
Acq: 4 Jan 2019 23:41

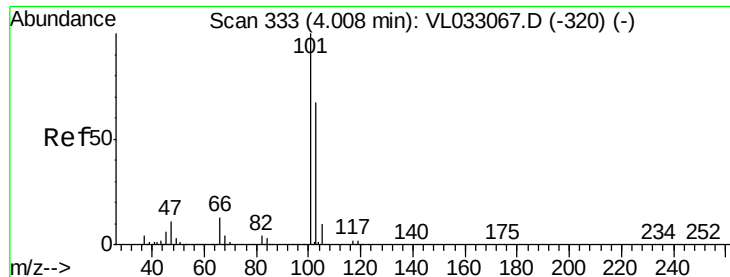
Tgt Ion: 41 Resp: 40623

Ion Ratio Lower Upper

41 100

42 67.5 55.3 82.9





#11

Trichlorofluoromethane

Concen: 0.271 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

MSVOA_L

ClientSampleId :

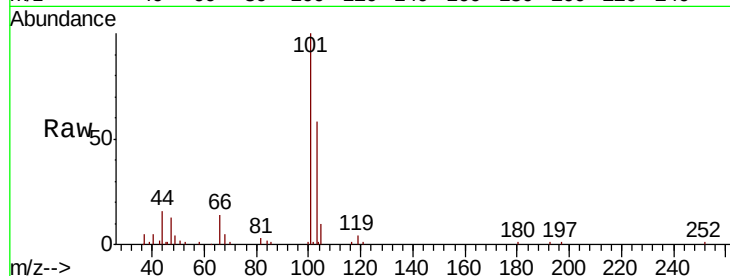
SVI-IA1D-2018-12-19DUP

Tgt Ion:101 Resp: 52336

Ion Ratio Lower Upper

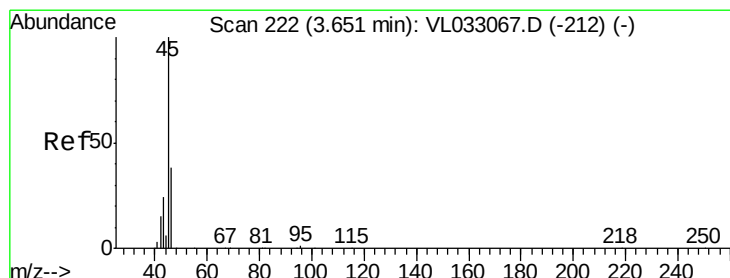
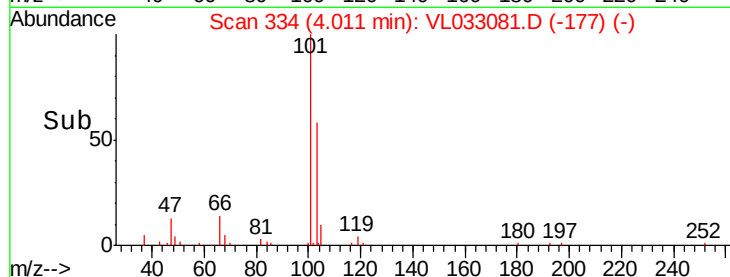
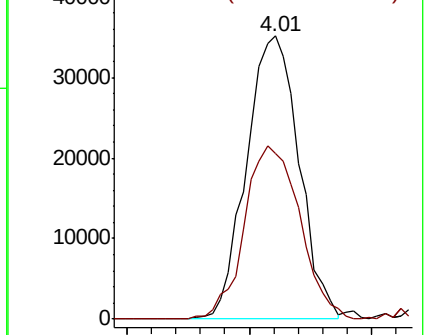
101 100

103 58.3 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 4.078 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033081.D

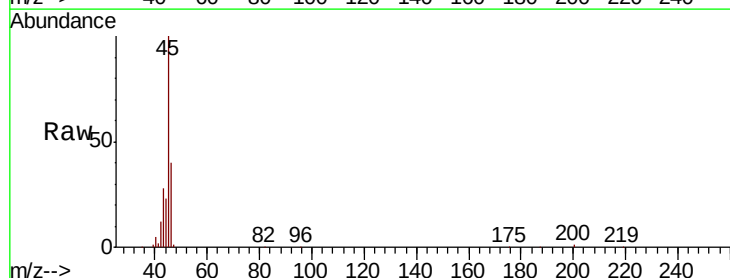
Acq: 4 Jan 2019 23:41

Tgt Ion: 45 Resp: 64674

Ion Ratio Lower Upper

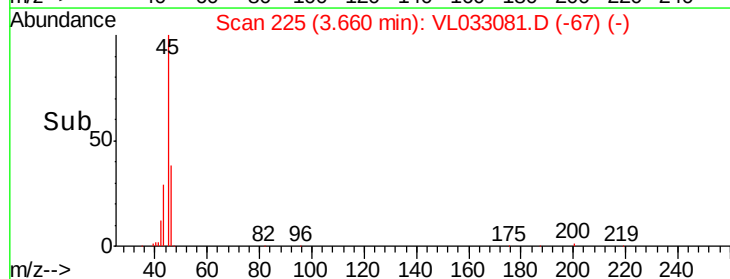
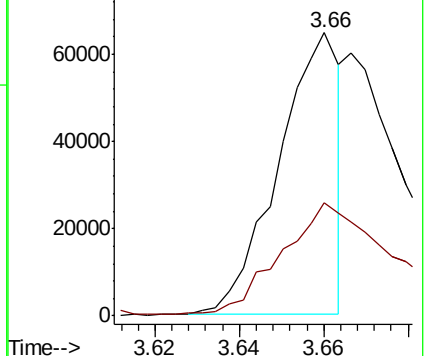
45 100

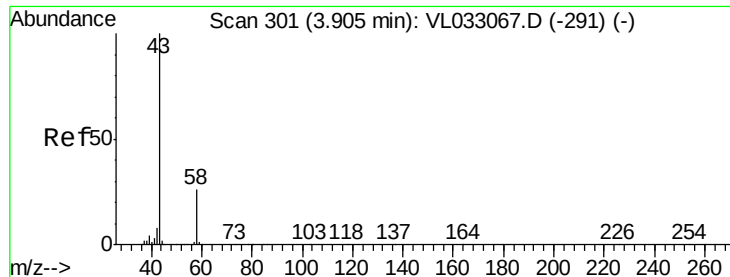
46 77.8 13.8 55.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.581 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

MSVOA_L

ClientSampleId :

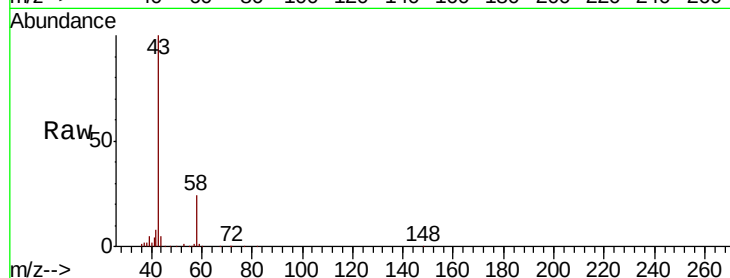
SVI-IA1D-2018-12-19DUP

Tgt Ion: 43 Resp: 336072

Ion Ratio Lower Upper

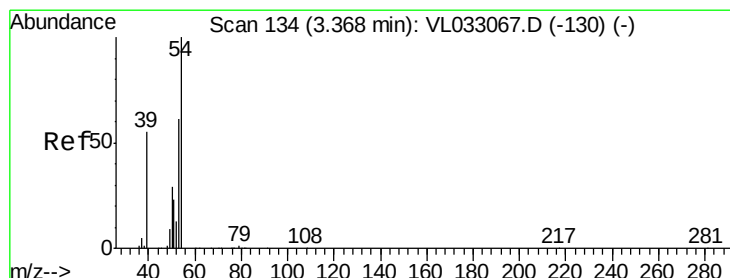
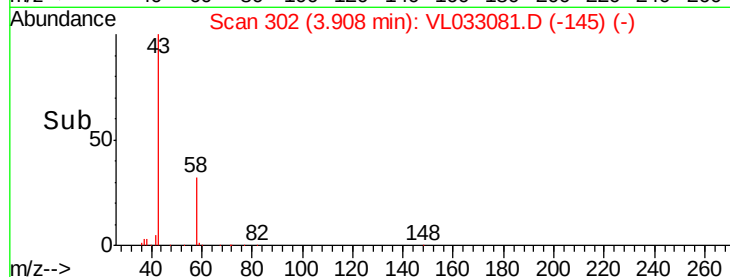
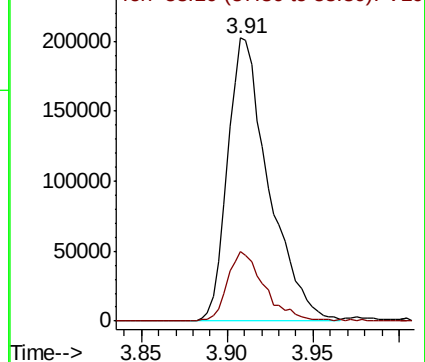
43 100

58 22.3 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.137 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL033081.D

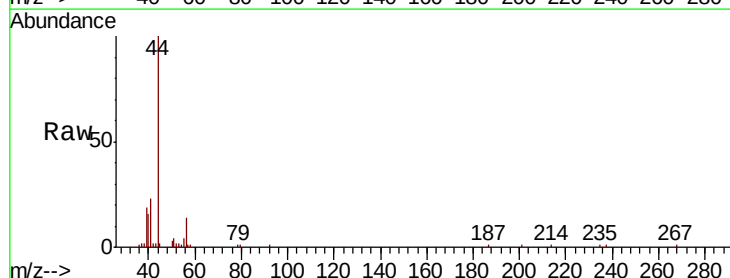
Acq: 4 Jan 2019 23:41

Tgt Ion: 39 Resp: 6729

Ion Ratio Lower Upper

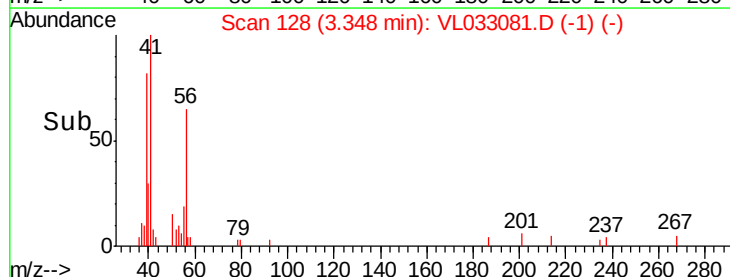
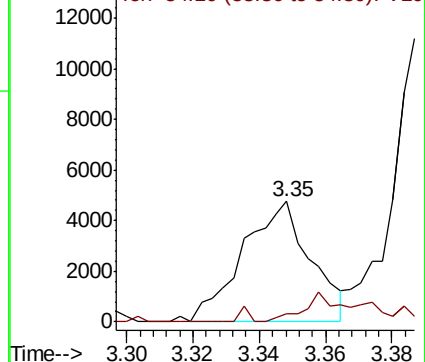
39 100

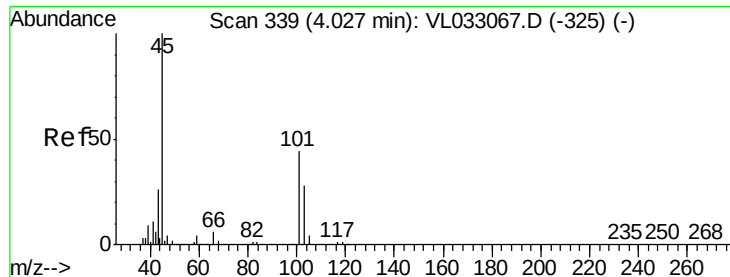
54 35.3 73.7 110.5#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.532 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

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ClientSampleId :

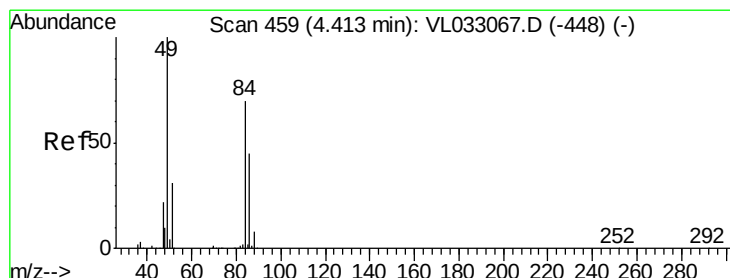
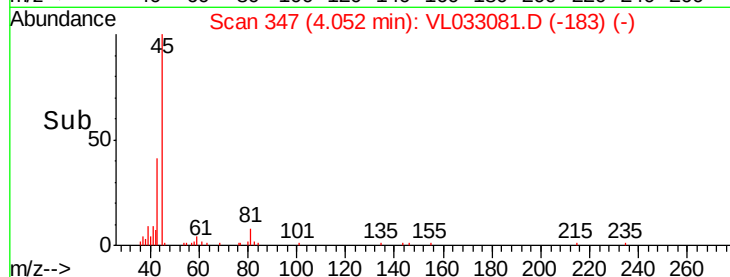
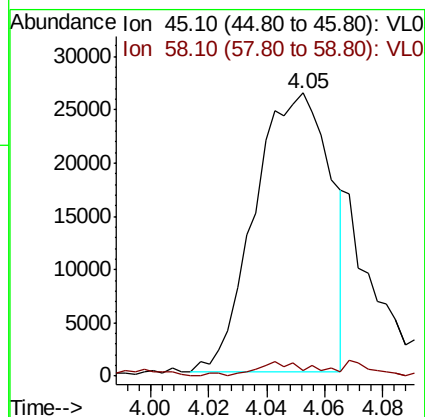
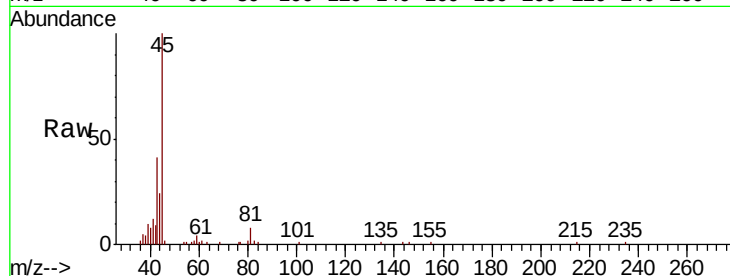
SVI-IA1D-2018-12-19DUP

Tgt Ion: 45 Resp: 47666

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 3.919 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.01 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Tgt Ion: 84 Resp: 212715

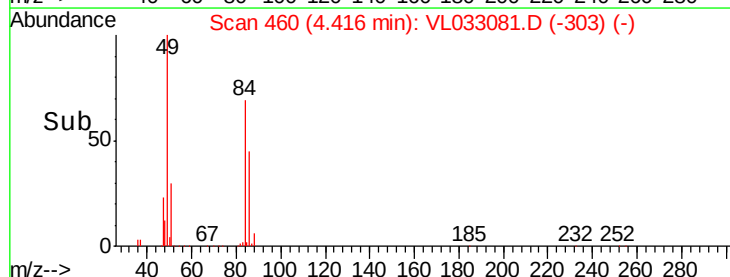
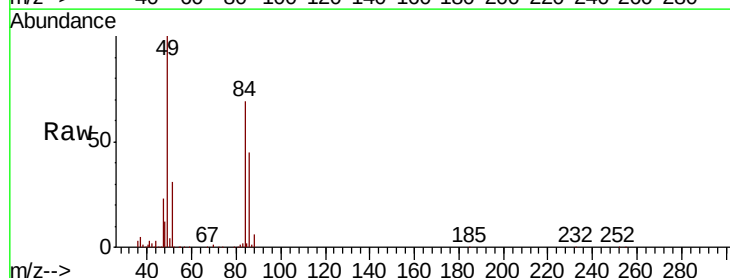
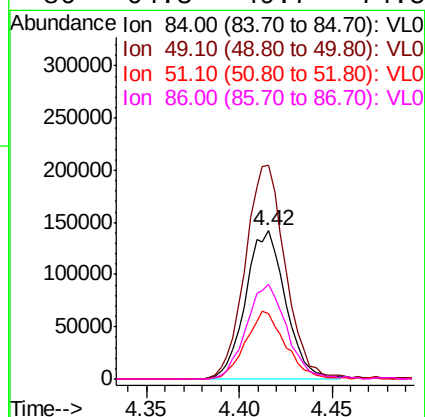
Ion Ratio Lower Upper

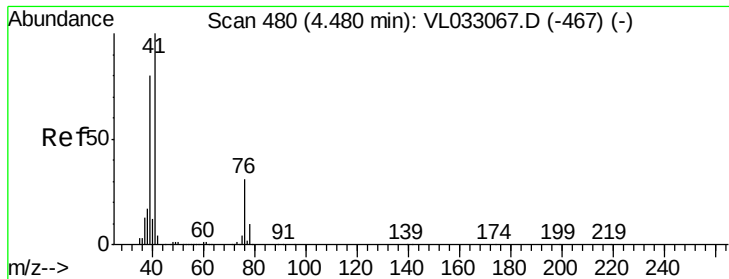
84 100

49 144.3 115.8 173.6

51 44.0 35.7 53.5

86 64.3 49.7 74.5

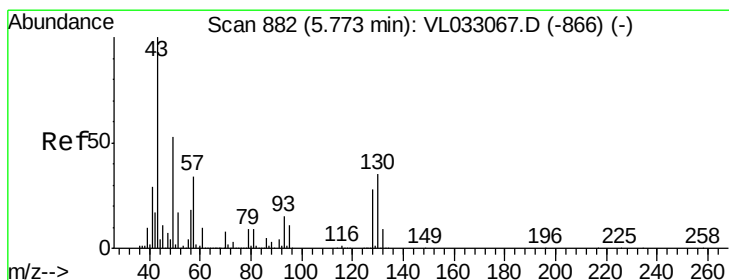
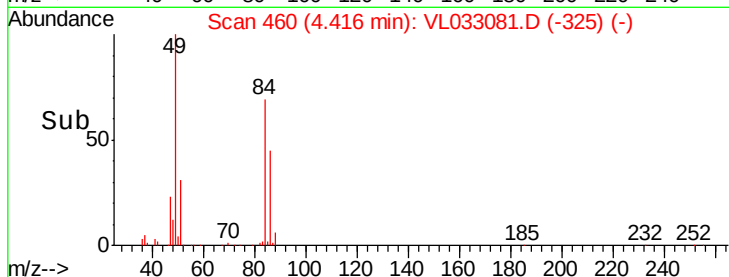
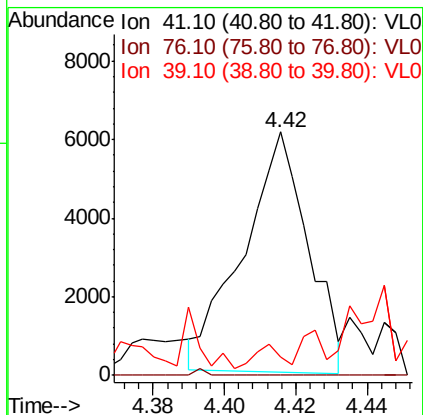
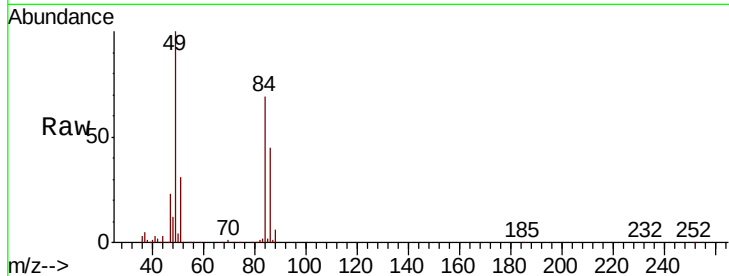




#21
 Allyl Chloride
 Concen: 0.095 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.06 min
 Lab File: VL033081.D
 Acq: 4 Jan 2019 23:41

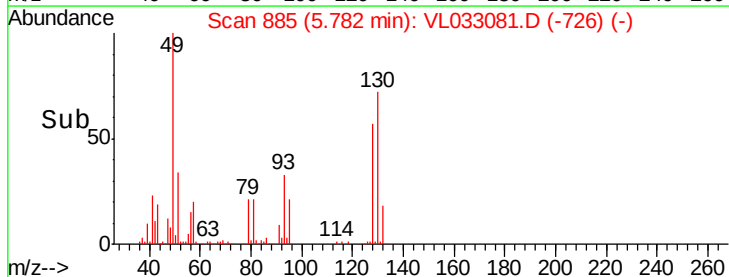
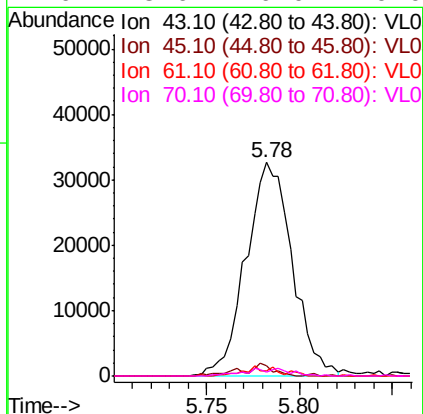
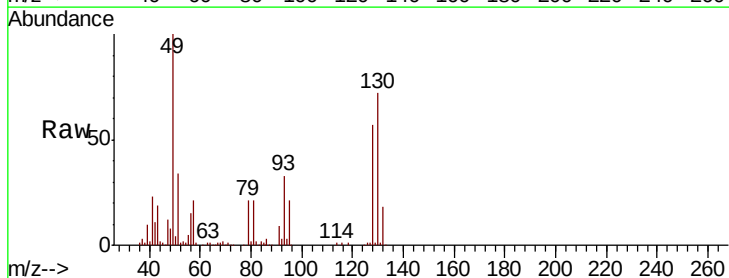
Instrument :
 MSVOA_L
 ClientSampleId :
 SVI-IA1D-2018-12-19DUP

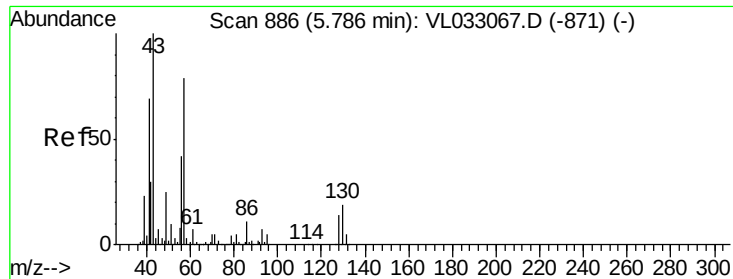
Tgt Ion: 41 Resp: 7700
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.6 36.8#
 39 17.7 62.8 94.2#



#25
 Ethyl Acetate
 Concen: 0.257 ppbv
 RT: 5.78 min Scan# 885
 Delta R.T. 0.01 min
 Lab File: VL033081.D
 Acq: 4 Jan 2019 23:41

Tgt Ion: 43 Resp: 56512
 Ion Ratio Lower Upper
 43 100
 45 4.2 7.9 11.9#
 61 3.5 7.8 11.8#
 70 3.6 6.0 9.0#

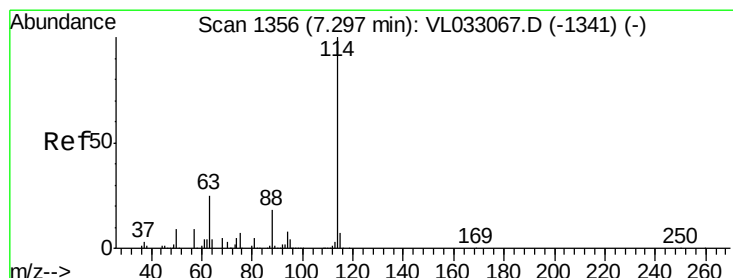
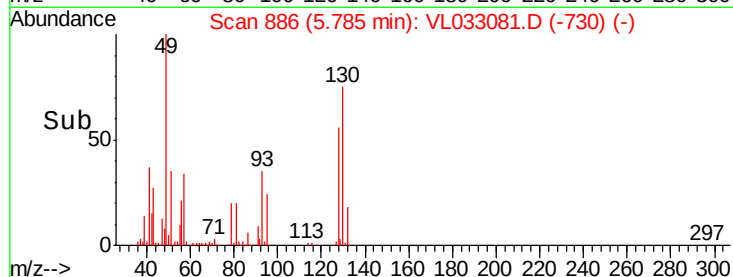
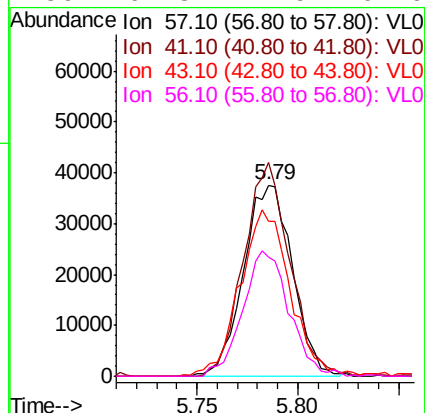
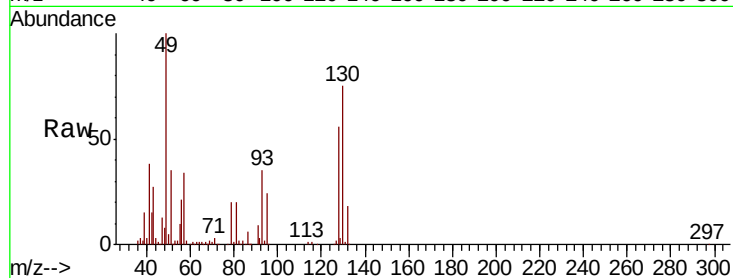




#26
Hexane
Concen: 0.614 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

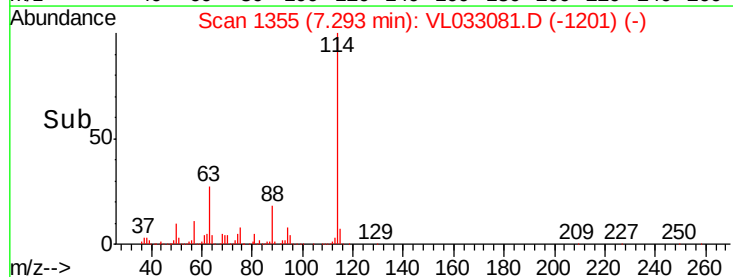
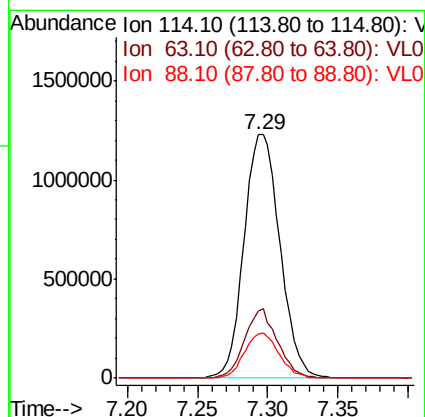
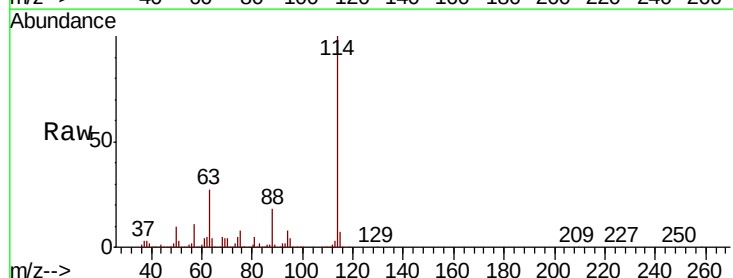
Instrument :
MSVOA_L
ClientSampleId :
SVI-IA1D-2018-12-19DUP

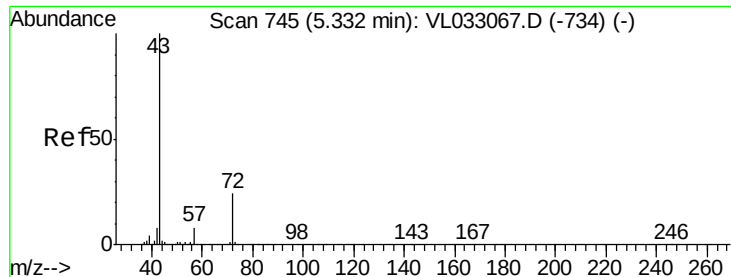
Tgt Ion: 57 Resp: 63672
Ion Ratio Lower Upper
57 100
41 106.9 70.8 106.2#
43 89.4 171.8 257.6#
56 62.8 41.9 62.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.00 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

Tgt Ion: 114 Resp: 2195211
Ion Ratio Lower Upper
114 100
63 26.1 20.1 30.1
88 18.0 14.0 21.0

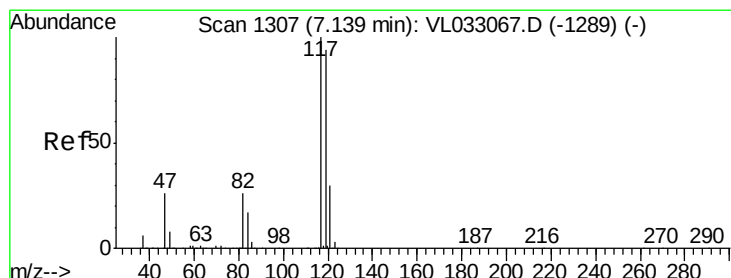
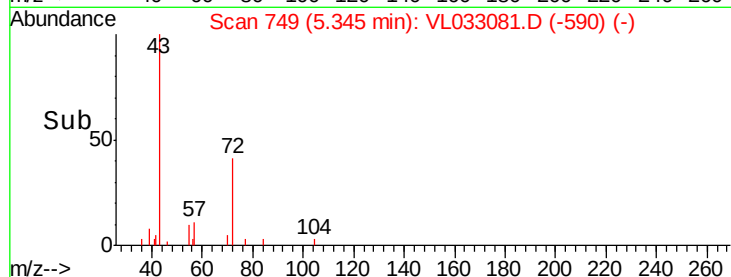
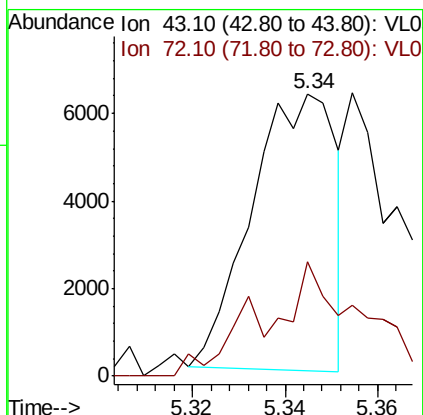
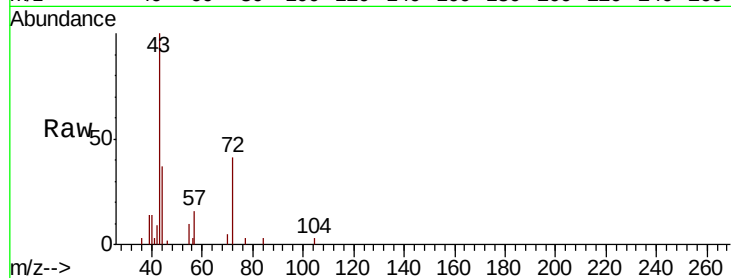




#34
2-Butanone
Concen: 0.063 ppbv
RT: 5.34 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

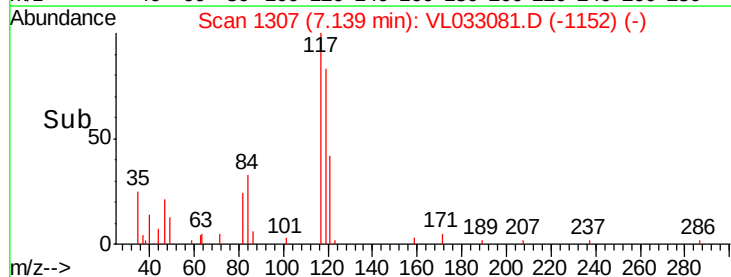
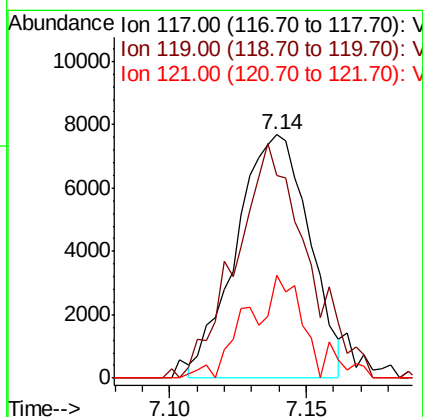
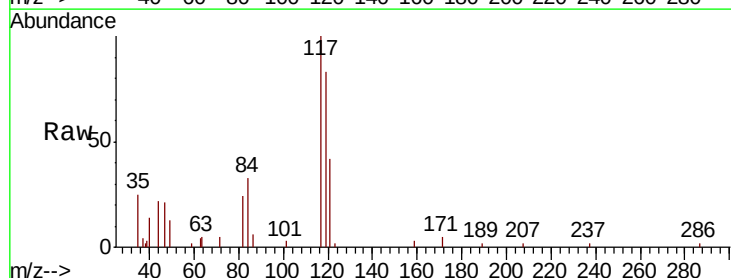
Instrument :
MSVOA_L
ClientSampleId :
SVI-IA1D-2018-12-19DUP

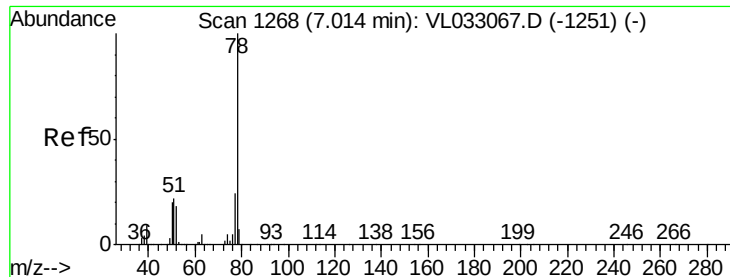
Tgt Ion: 43 Resp: 7979
Ion Ratio Lower Upper
43 100
72 52.1 18.9 28.3#



#35
Carbon Tetrachloride
Concen: 0.075 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

Tgt Ion: 117 Resp: 14218
Ion Ratio Lower Upper
117 100
119 83.5 76.5 114.7
121 42.6 25.2 37.8#





#36

Benzene

Concen: 0.115 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033081.D

Acq: 4 Jan 2019 23:41

Instrument :

MSVOA_L

ClientSampleId :

SVI-IA1D-2018-12-19DUP

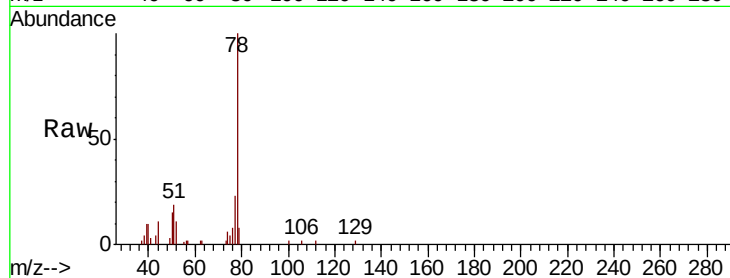
Tgt Ion: 78 Resp: 20702

Ion Ratio Lower Upper

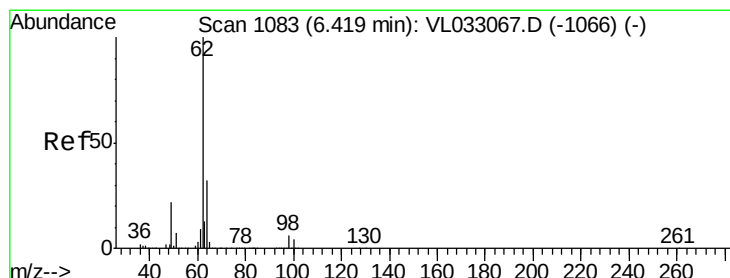
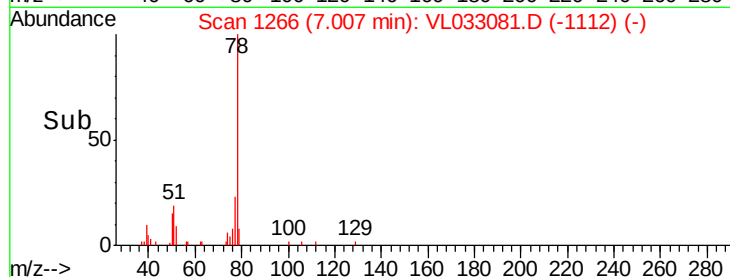
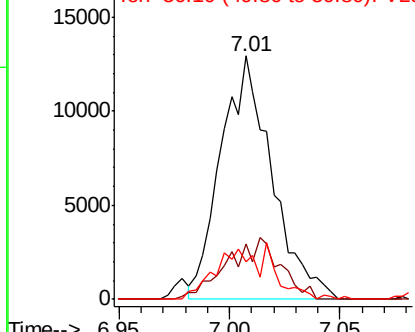
78 100

77 22.6 18.5 27.7

50 15.3 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



#37

1,2-Dichloroethane

Concen: 0.030 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033081.D

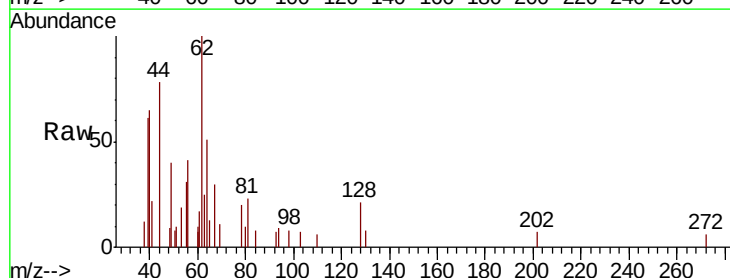
Acq: 4 Jan 2019 23:41

Tgt Ion: 62 Resp: 3804

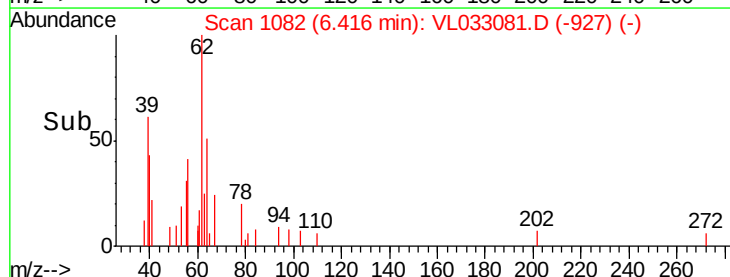
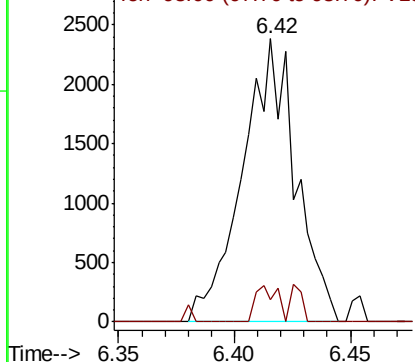
Ion Ratio Lower Upper

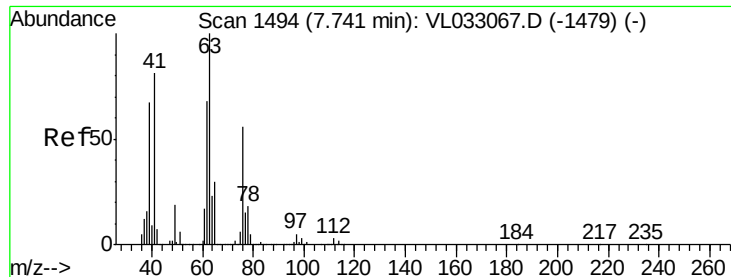
62 100

98 8.2 4.6 7.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

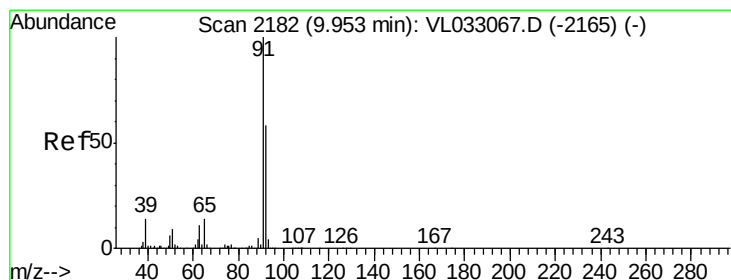
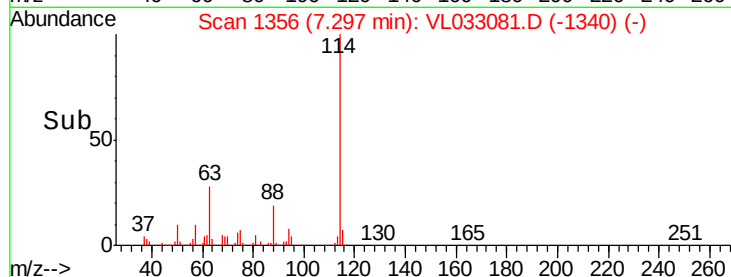
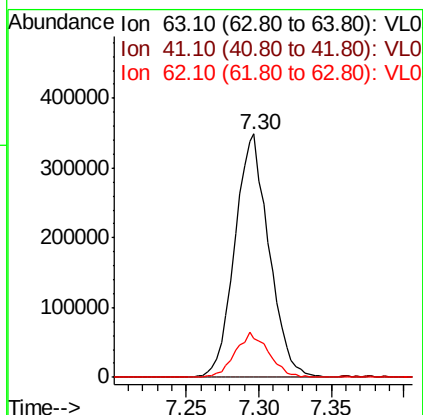
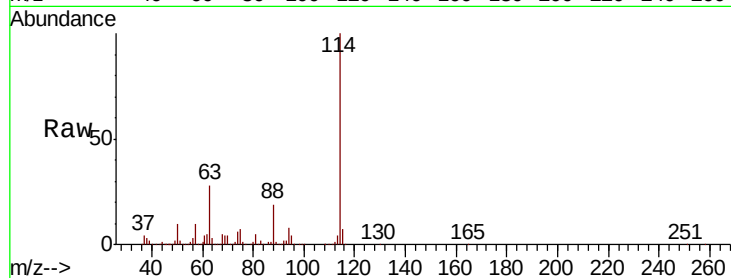




#39
 1,2-Dichloropropane
 Concen: 8.441 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL033081.D
 Acq: 4 Jan 2019 23:41

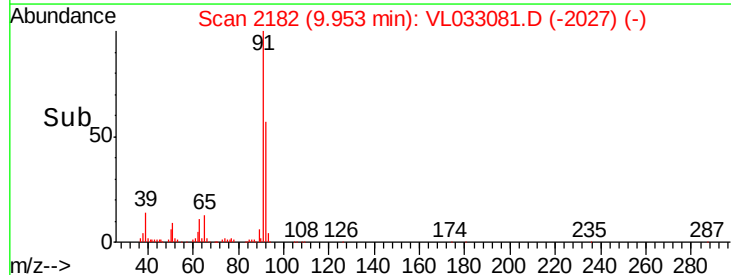
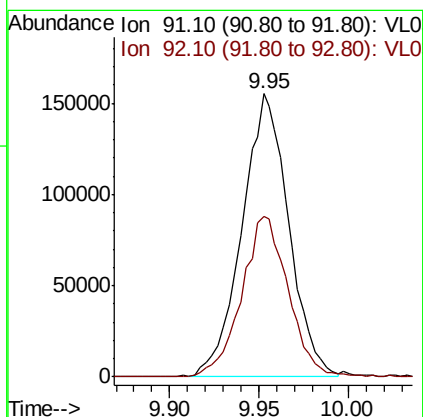
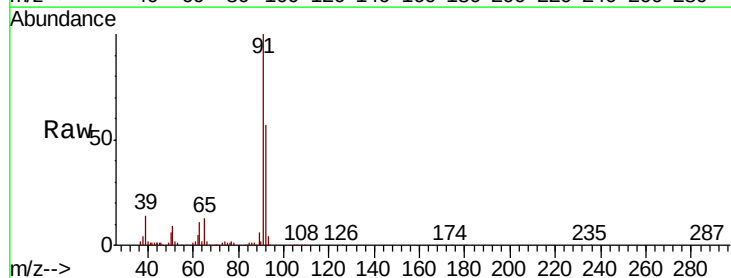
Instrument :
 MSVOA_L
 ClientSampleId :
 SVI-IA1D-2018-12-19DUP

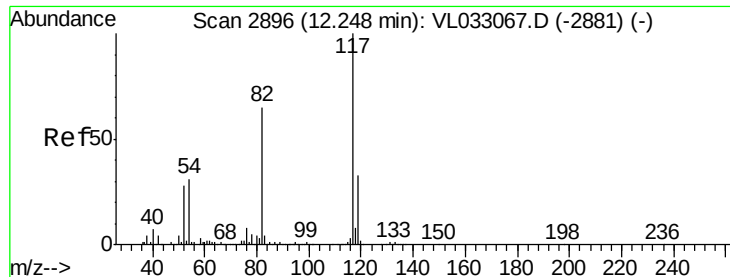
Tgt Ion: 63 Resp: 570209
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.9 92.9#
 62 16.2 55.8 83.6#



#53
 Toluene
 Concen: 1.456 ppbv
 RT: 9.95 min Scan# 2182
 Delta R.T. -0.00 min
 Lab File: VL033081.D
 Acq: 4 Jan 2019 23:41

Tgt Ion: 91 Resp: 280490
 Ion Ratio Lower Upper
 91 100
 92 57.5 47.7 71.5

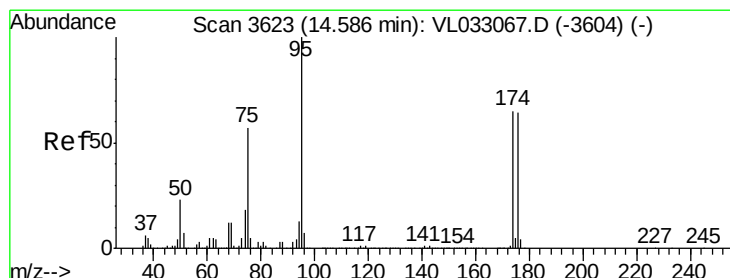
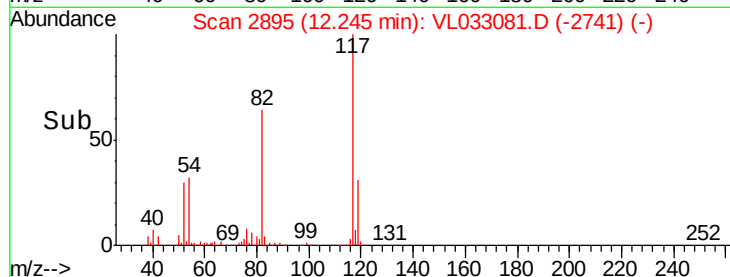
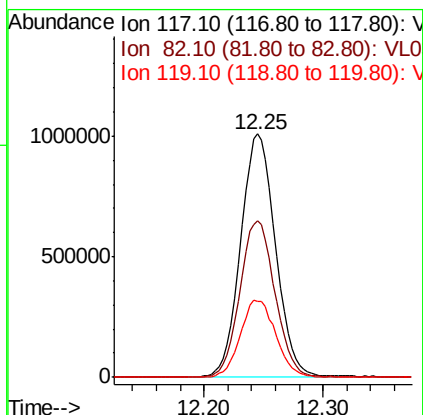
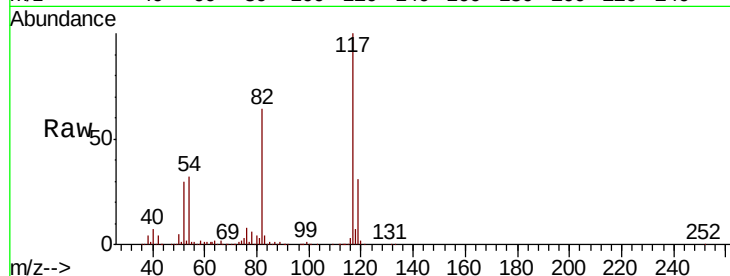




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

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

Tgt Ion: 117 Resp: 2044976
Ion Ratio Lower Upper
117 100
82 65.2 48.9 73.3
119 32.6 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.913 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.00 min
Lab File: VL033081.D
Acq: 4 Jan 2019 23:41

Tgt Ion: 95 Resp: 1553958
Ion Ratio Lower Upper
95 100
174 65.0 51.9 77.9
175 4.7 3.9 5.9

