

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040119\
 Data File : VD061470.D
 Acq On : 1 Apr 2019 15:59
 Operator : VA/AP
 Sample : K2184-02
 Misc : 3.93g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 02 01:18:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	630147	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	1107840	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	898627	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	363708	50.00	ug/l	0.00

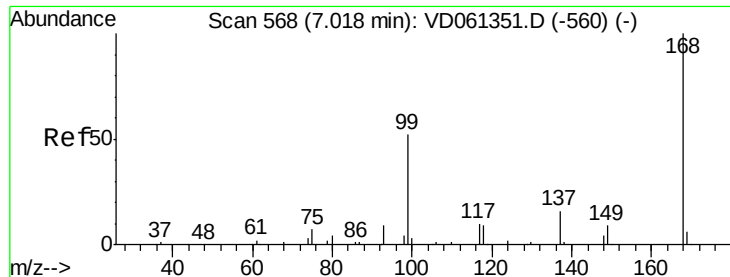
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	265920	49.40	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.80%	
35) Dibromofluoromethane	6.93	113	10702	1.26	ug/l	0.03
Spiked Amount	50.000		Recovery	=	2.52%	
50) Toluene-d8	10.41	98	919945	45.31	ug/l	0.02
Spiked Amount	50.000		Recovery	=	90.62%	
62) 4-Bromofluorobenzene	13.55	95	353893	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	

Target Compounds

						Qvalue
10) Methyl Iodide	3.33	142	1058	3.548	ug/l #	38
11) Tert butyl alcohol	4.04	59	875	2.610	ug/l #	76
16) Acetone	3.23	43	52930	38.250	ug/l	98
20) Methylene Chloride	3.83	84	64801	6.697	ug/l	93
25) 2-Butanone	6.07	43	3530	2.028	ug/l #	54
26) 2,2-Dichloropropane	6.15	77	10957	1.175	ug/l #	50
29) Tetrahydrofuran	6.45	42	3031	3.593	ug/l #	60
31) Cyclohexane	7.05	56	10565	1.140	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	47892	4.953	ug/l #	44
37) Ethyl Acetate	6.15	43	9226	2.231	ug/l #	1
38) Carbon Tetrachloride	7.05	117	60956	5.486	ug/l #	13
45) 1,2-Dichloropropane	8.97	63	13446	2.185	ug/l #	43
48) Methyl methacrylate	8.97	41	62449	18.807	ug/l #	46
51) 4-Methyl-2-Pentanone	10.29	43	4130	1.128	ug/l #	74
52) Toluene	10.51	92	15671	1.059	ug/l	99
74) N-amyl acetate	13.20	43	9398	1.333	ug/l #	47
76) 1,2,3-Trichloropropane	13.55	75	103590	19.717	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	131073	81.823	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

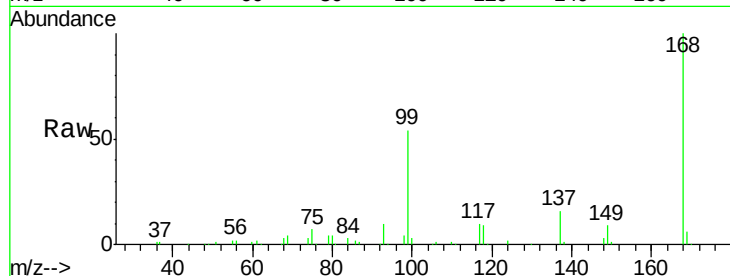
ClientSampleId :

Tot Ion:168 Resp: 630147

Ion Ratio Lower Upper

168 100

99 54.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

200000

150000

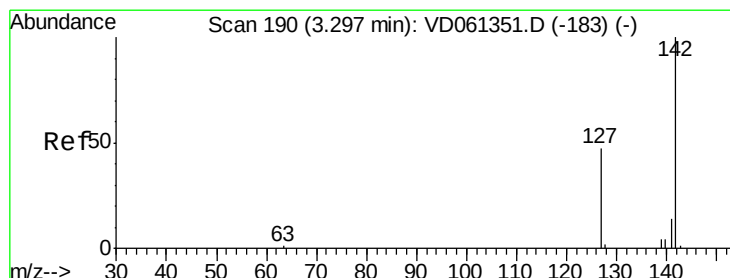
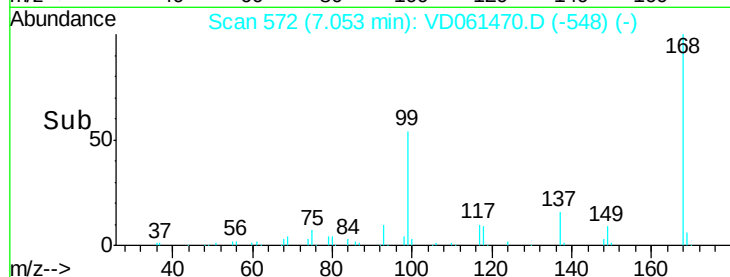
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 3.548 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

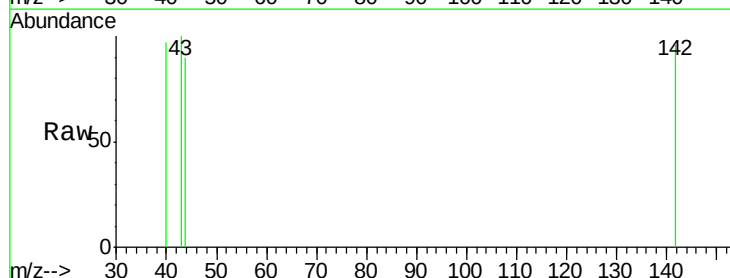
Tgt Ion:142 Resp: 1058

Ion Ratio Lower Upper

142 100

127 0.0 37.7 56.5#

141 0.0 11.5 17.3#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.33

600

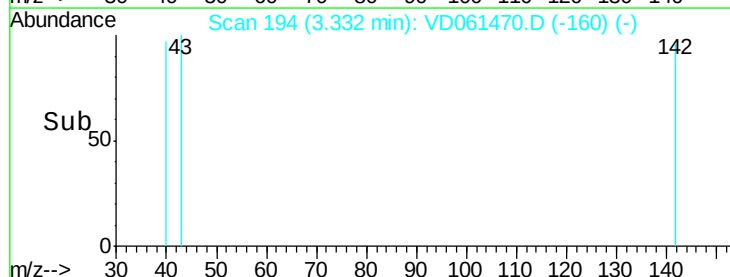
400

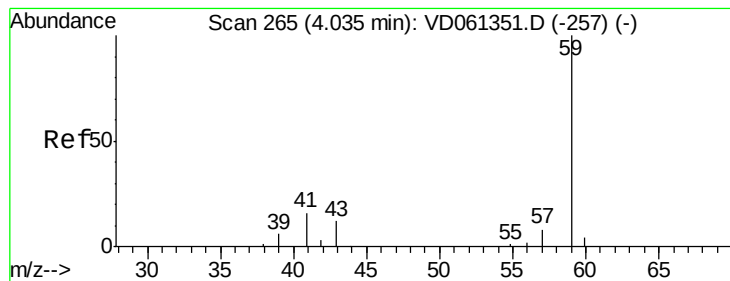
200

0

3.30 3.35

Time-->



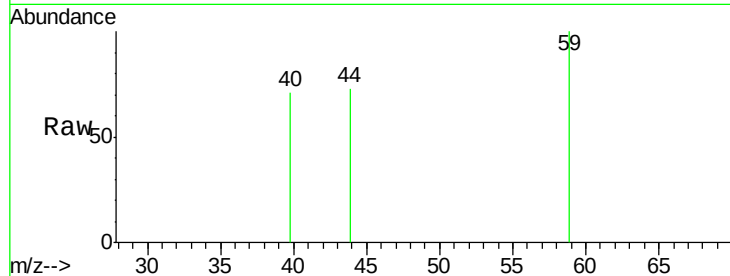


#11

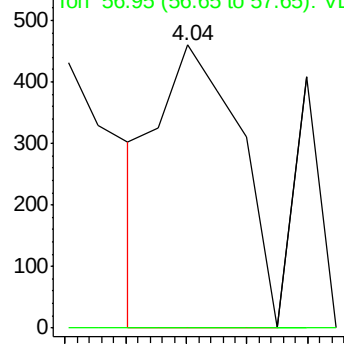
Tert butyl alcohol
 Concen: 2.610 ug/l
 RT: 4.04 min Scan# 266
 Delta R.T. 0.01 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

Instrument :
 MSVOA_D
 ClientSampled :

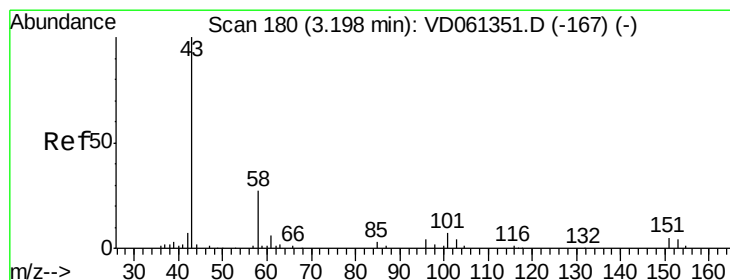
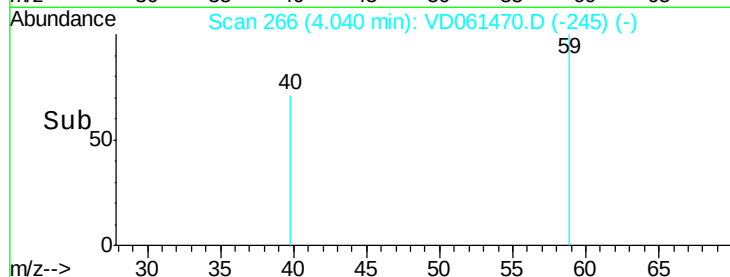
Tot Ion: 59 Resp: 875
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



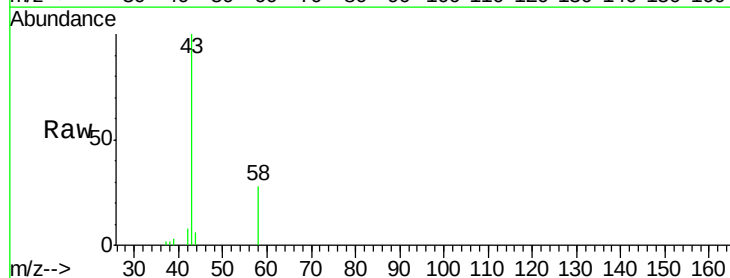
Time-->



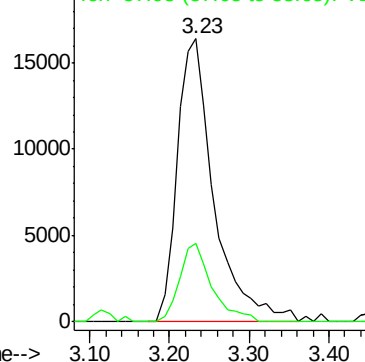
#16

Acetone
 Concen: 38.250 ug/l
 RT: 3.23 min Scan# 184
 Delta R.T. 0.03 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

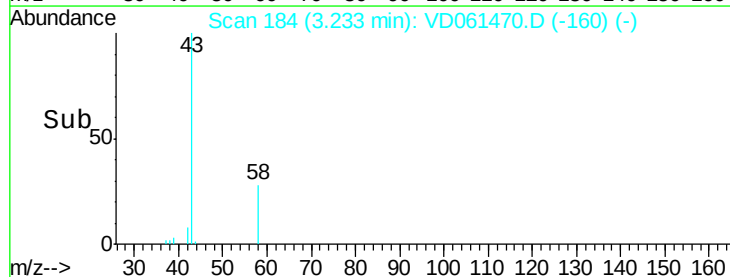
Tgt Ion: 43 Resp: 52930
 Ion Ratio Lower Upper
 43 100
 58 27.7 21.5 32.3

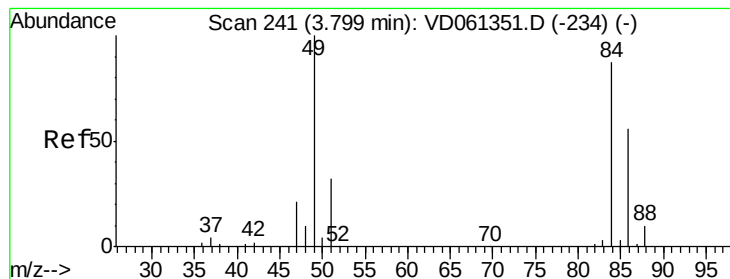


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC



Time-->





#20

Methylene Chloride

Concen: 6.697 ug/l

RT: 3.83 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 64801

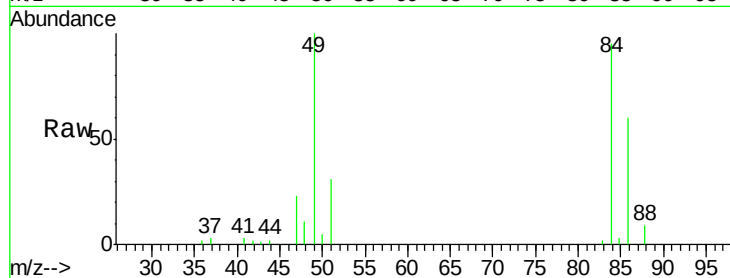
Ion Ratio Lower Upper

84 100

49 104.9 91.8 137.8

51 33.0 29.8 44.8

86 62.8 51.8 77.6

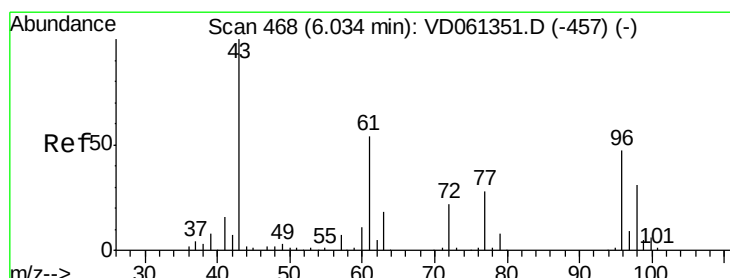
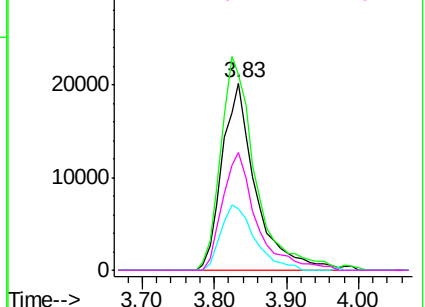
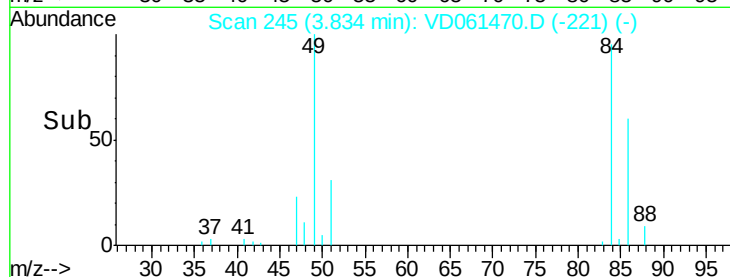


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 2.028 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.03 min

Lab File: VD061470.D

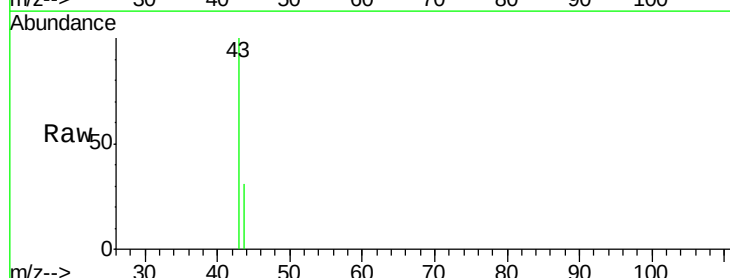
Acq: 1 Apr 2019 15:59

Tgt Ion: 43 Resp: 3530

Ion Ratio Lower Upper

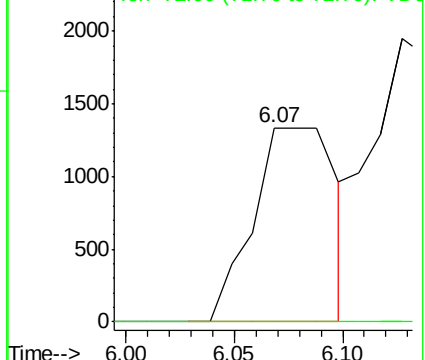
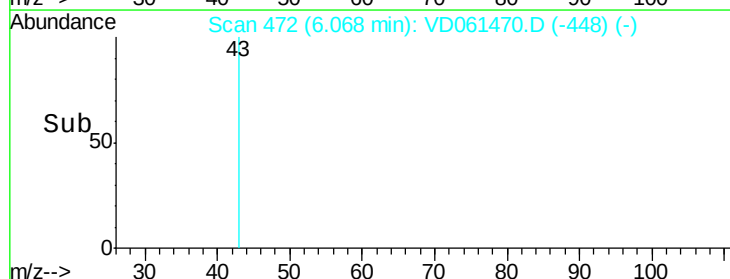
43 100

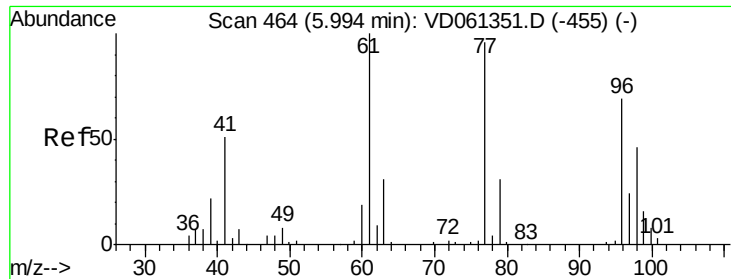
72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

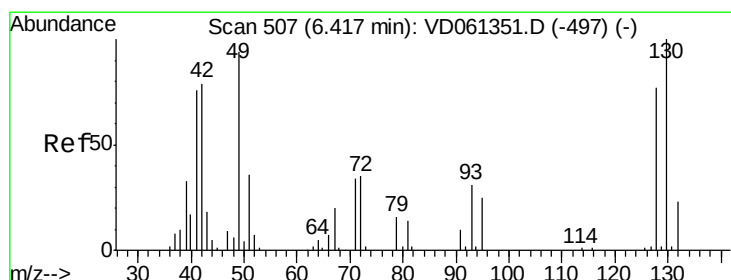
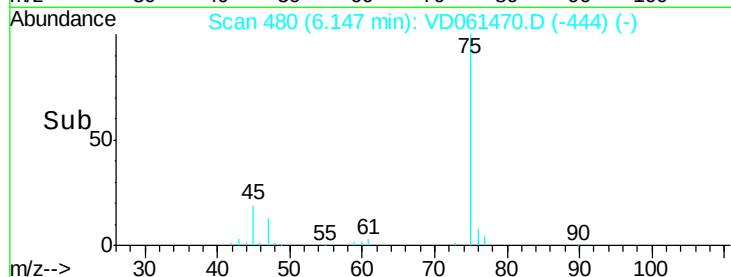
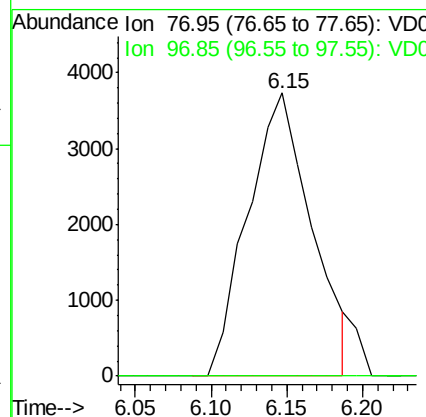
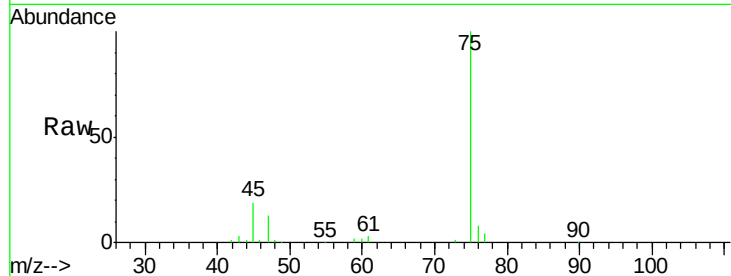




#26
 2,2-Dichloropropane
 Concen: 1.175 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. 0.15 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

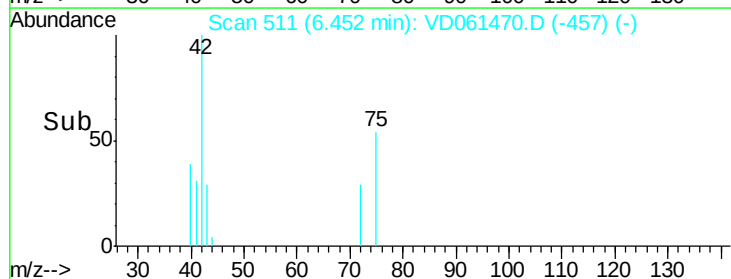
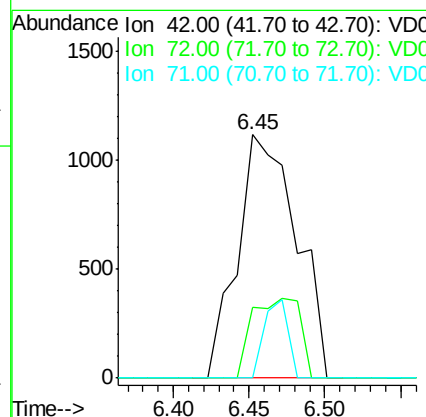
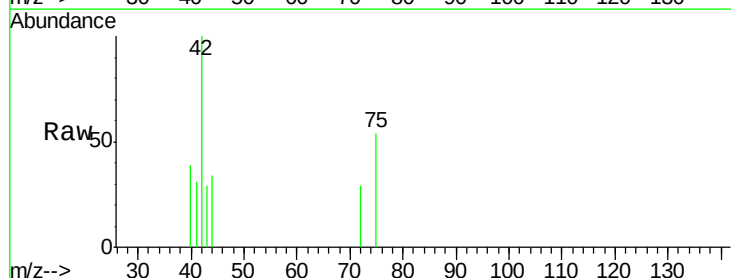
Instrument :
 MSVOA_D
 ClientSampleId :

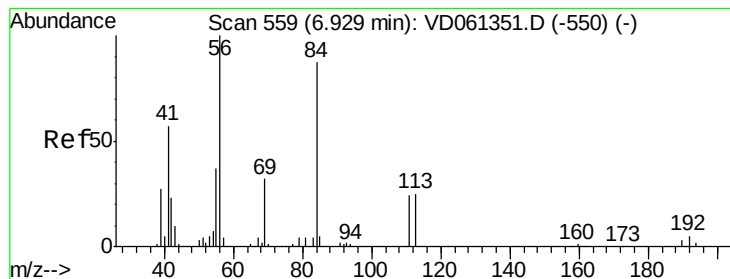
Tot Ion: 77 Resp: 10957
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.7 38.0#



#29
 Tetrahydrofuran
 Concen: 3.593 ug/l
 RT: 6.45 min Scan# 511
 Delta R.T. 0.03 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

Tgt Ion: 42 Resp: 3031
 Ion Ratio Lower Upper
 42 100
 72 26.7 37.4 56.0#
 71 13.0 36.7 55.1#





#31

Cyclohexane

Concen: 1.140 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :
MSVOA_D
ClientSampleId :

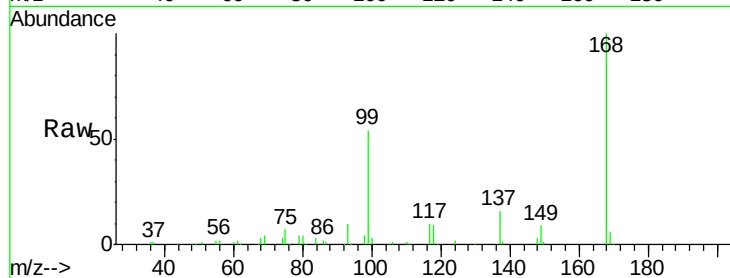
Tot Ion: 56 Resp: 10565

Ion Ratio Lower Upper

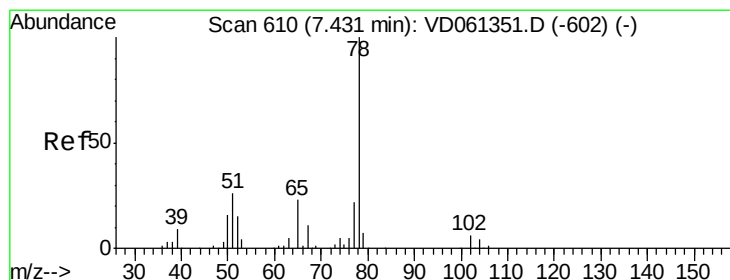
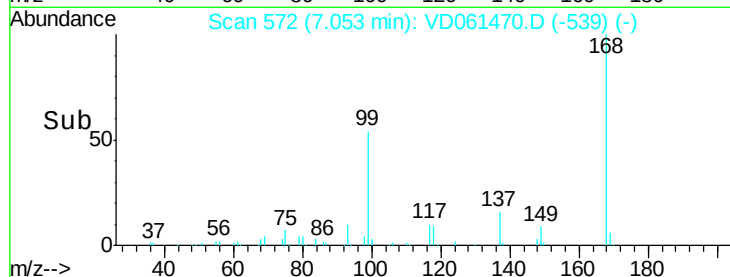
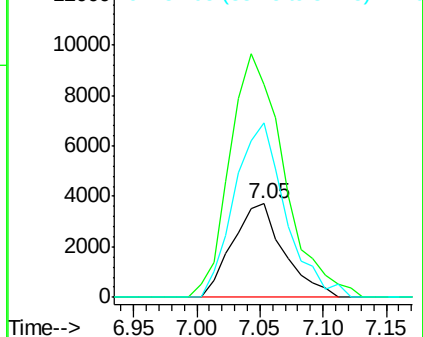
56 100

69 227.3 25.7 38.5#

84 185.9 70.6 105.8#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD061470.D

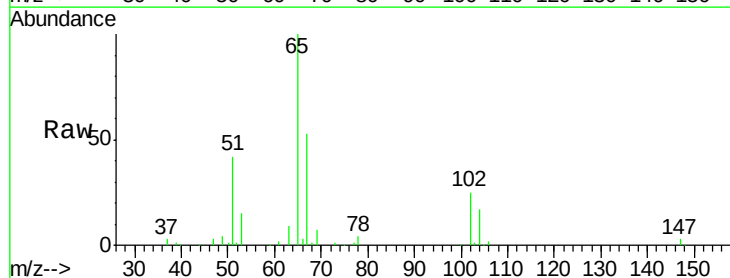
Acq: 1 Apr 2019 15:59

Tgt Ion: 65 Resp: 265920

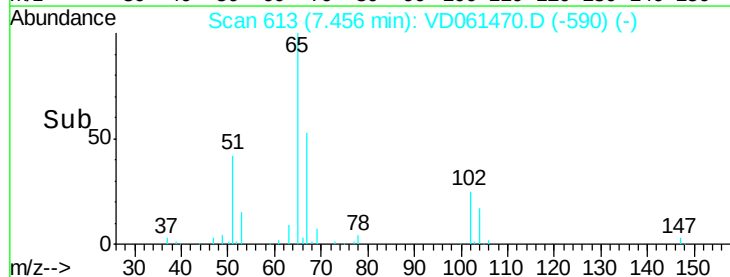
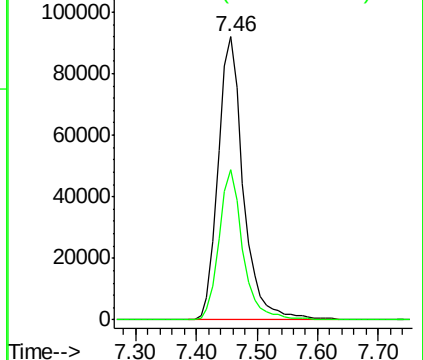
Ion Ratio Lower Upper

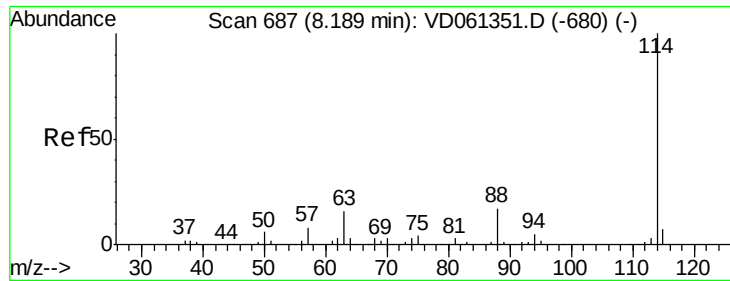
65 100

67 53.3 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. 0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

ClientSampleId :

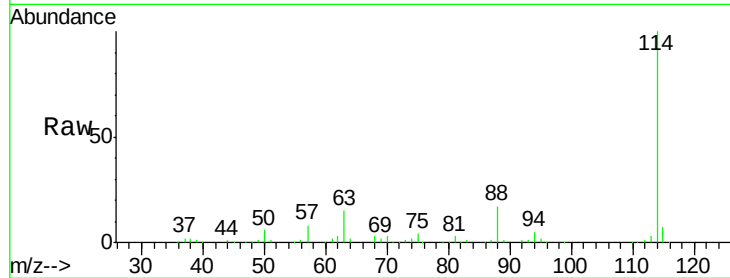
Tot Ion:114 Resp: 1107840

Ion Ratio Lower Upper

114 100

63 15.3 0.0 31.6

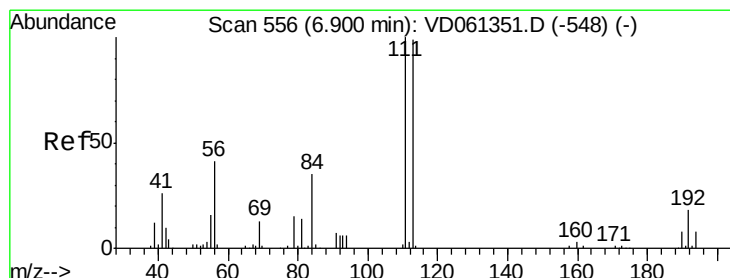
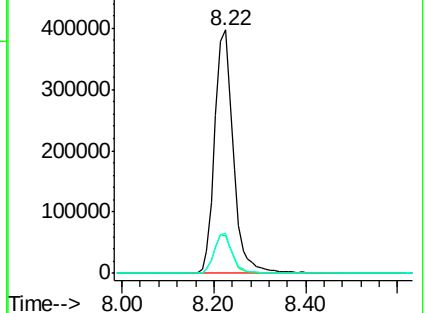
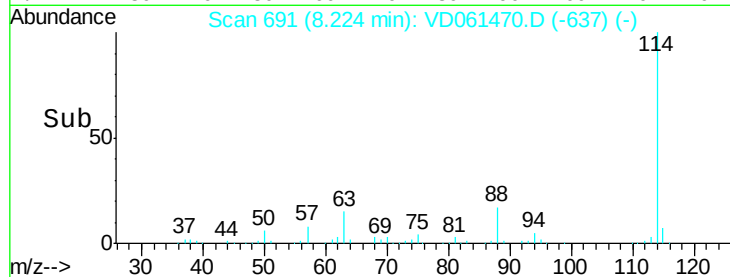
88 16.6 0.0 33.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

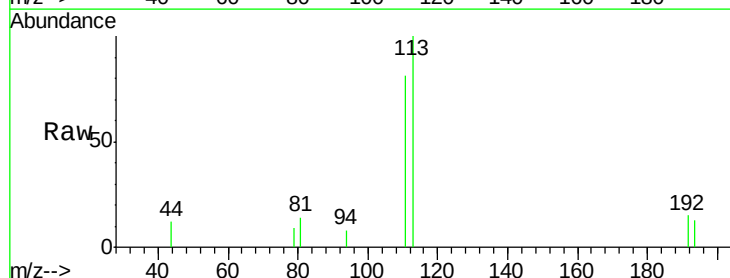
Tgt Ion:113 Resp: 10702

Ion Ratio Lower Upper

113 100

111 81.2 81.0 121.6

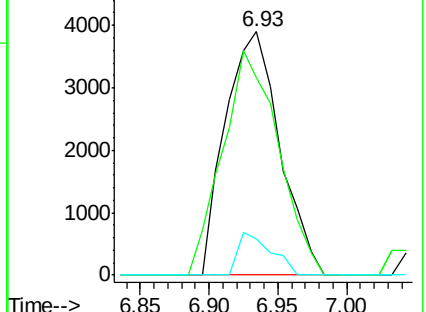
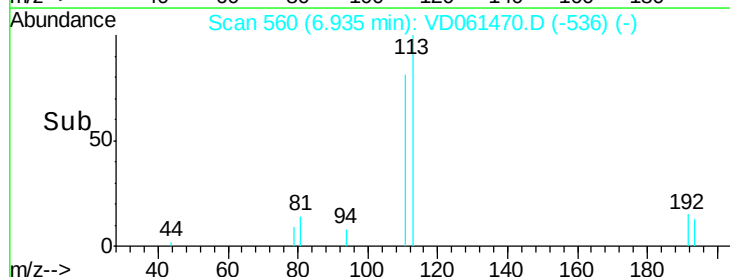
192 15.2 14.4 21.6

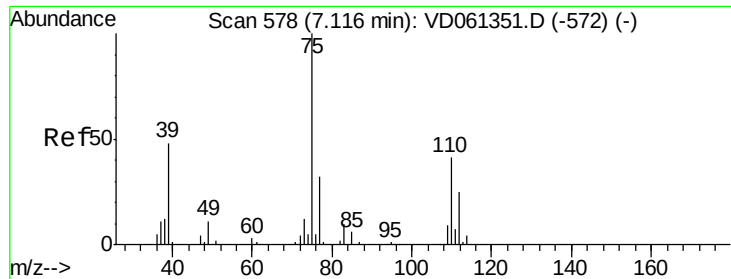


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

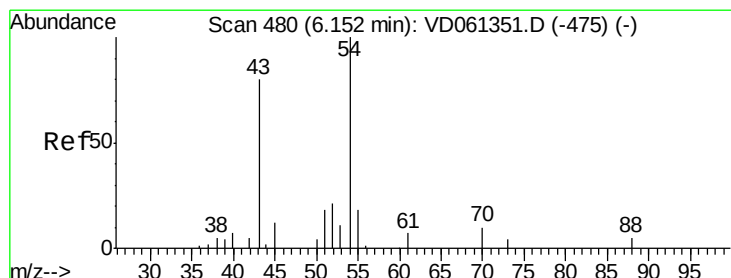
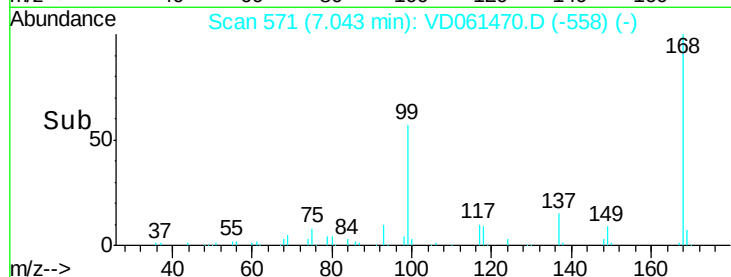
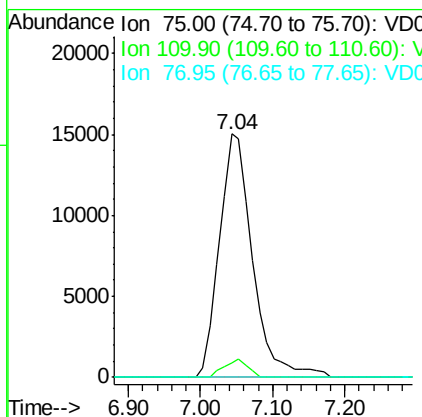
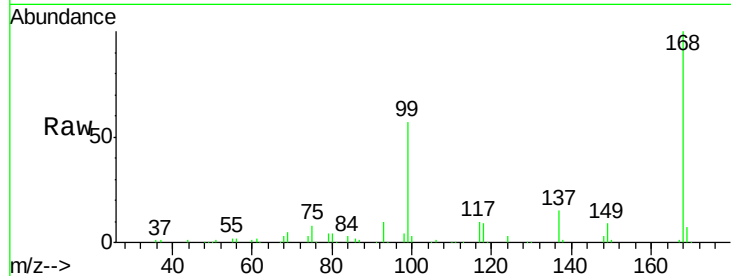




#36
 1,1-Dichloropropene
 Concen: 4.953 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

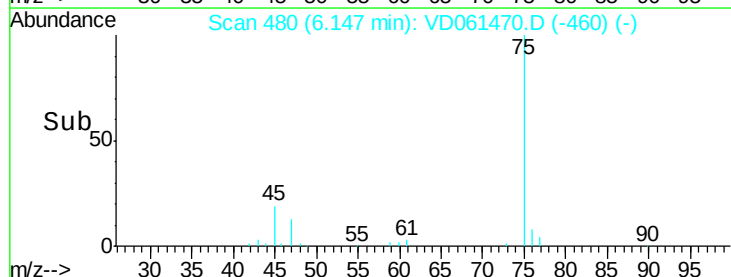
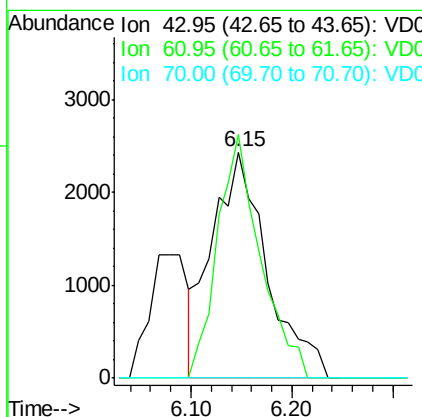
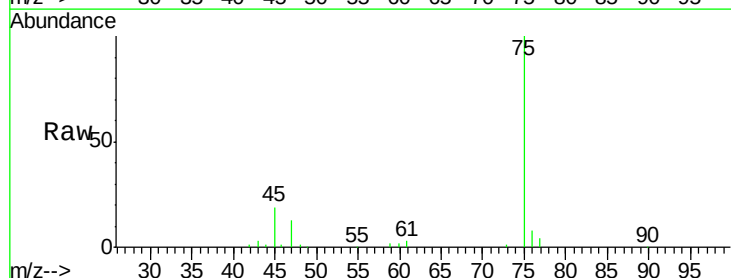
Instrument :
 MSVOA_D
 ClientSampleId :

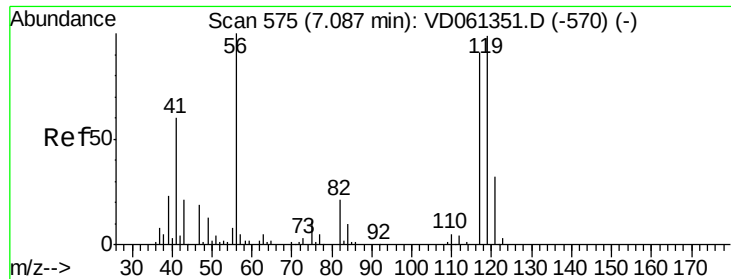
Tot Ion: 75 Resp: 47892
 Ion Ratio Lower Upper
 75 100
 110 6.2 20.4 61.3#
 77 0.0 24.9 37.3#



#37
 Ethyl Acetate
 Concen: 2.231 ug/l
 RT: 6.15 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

Tgt Ion: 43 Resp: 9226
 Ion Ratio Lower Upper
 43 100
 61 107.8 13.8 20.8#
 70 0.0 7.8 11.8#





#38

Carbon Tetrachloride

Concen: 5.486 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.03 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

ClientSampleId :

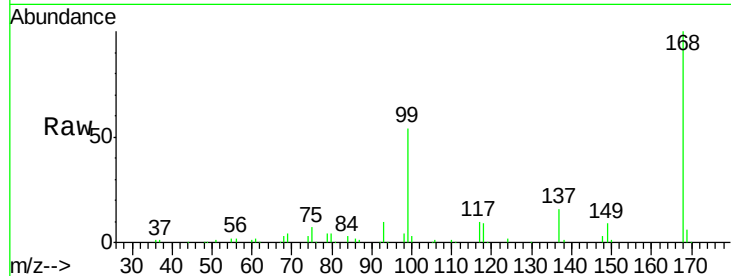
Tot Ion:117 Resp: 60956

Ion Ratio Lower Upper

117 100

119 4.2 80.1 120.1#

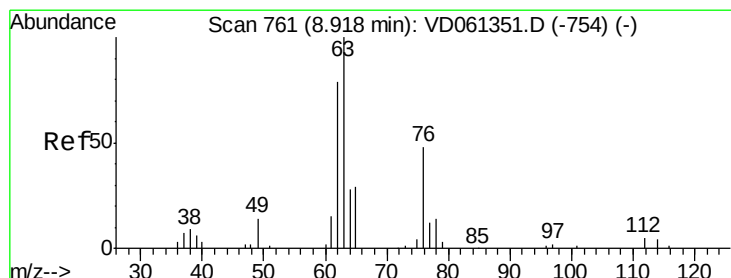
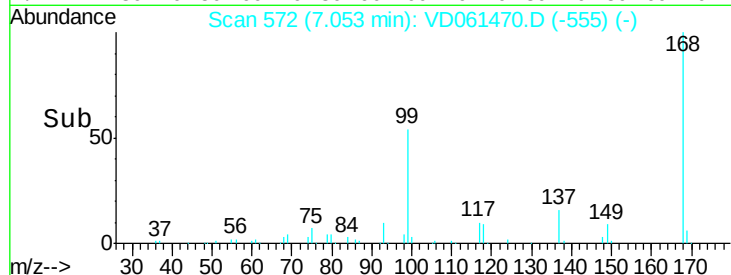
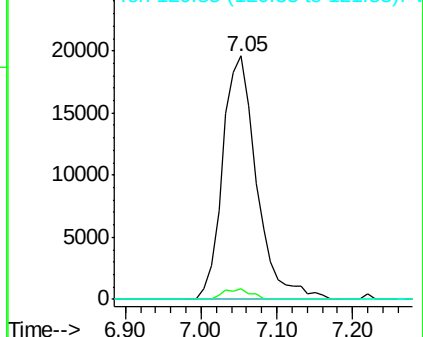
121 0.0 25.6 38.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#45

1,2-Dichloropropane

Concen: 2.185 ug/l

RT: 8.97 min Scan# 767

Delta R.T. 0.05 min

Lab File: VD061470.D

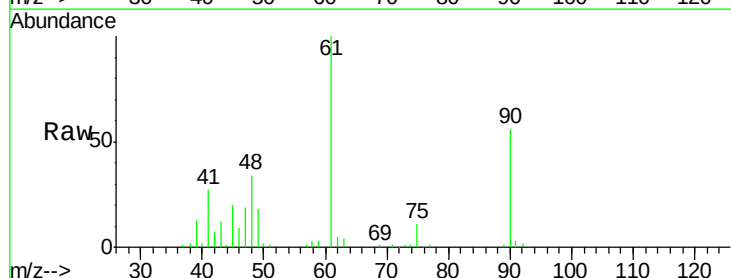
Acq: 1 Apr 2019 15:59

Tgt Ion: 63 Resp: 13446

Ion Ratio Lower Upper

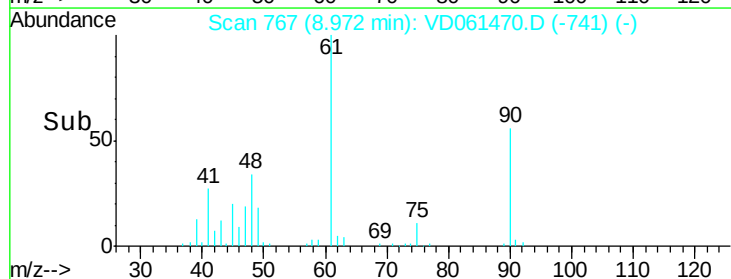
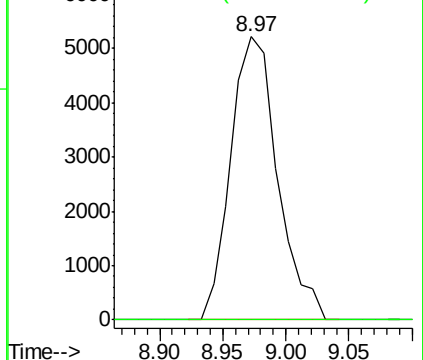
63 100

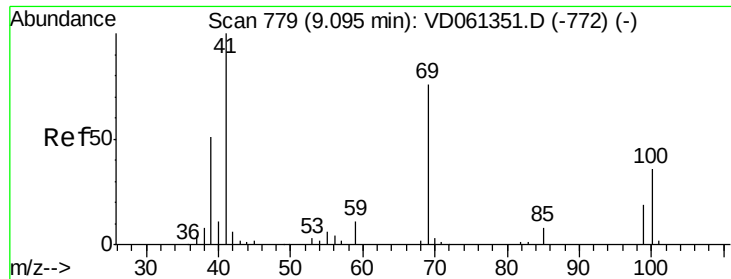
65 0.0 25.0 37.4#



Abundance Ion 62.95 (62.65 to 63.65): V

Ion 64.95 (64.65 to 65.65): V

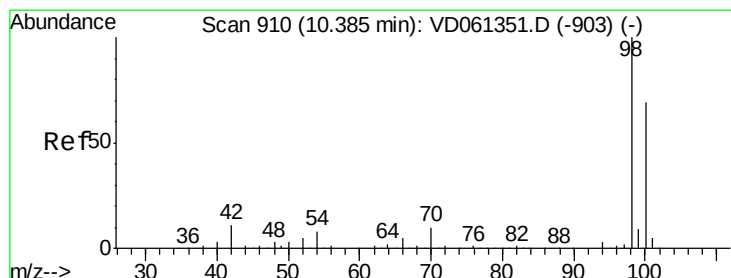
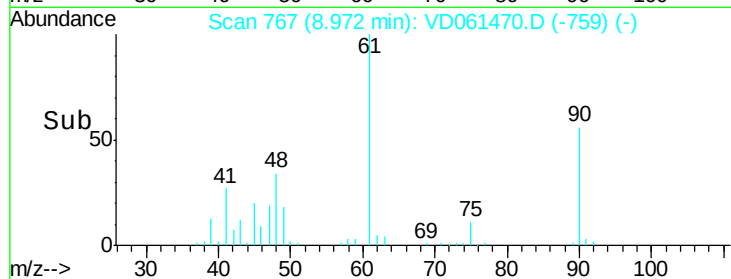
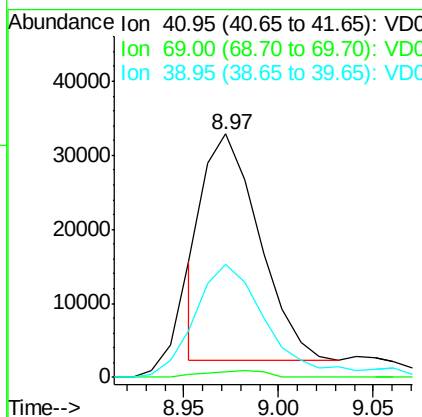
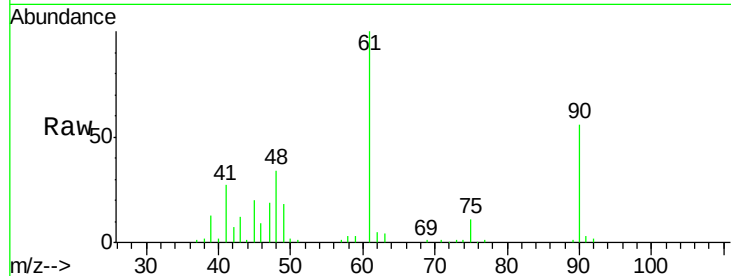




#48
Methvl methacrylate
Concen: 18.807 ug/l
RT: 8.97 min Scan# 767
Delta R.T. -0.12 min
Lab File: VD061470.D
Acq: 1 Apr 2019 15:59

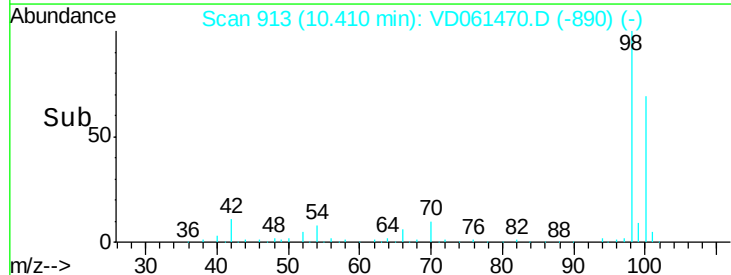
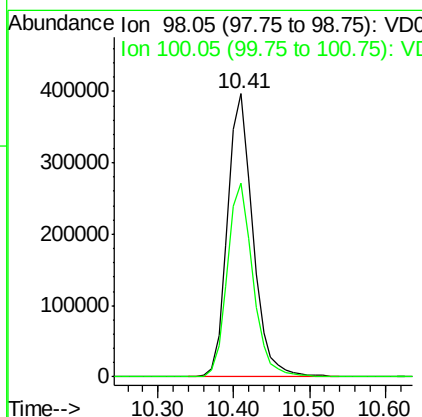
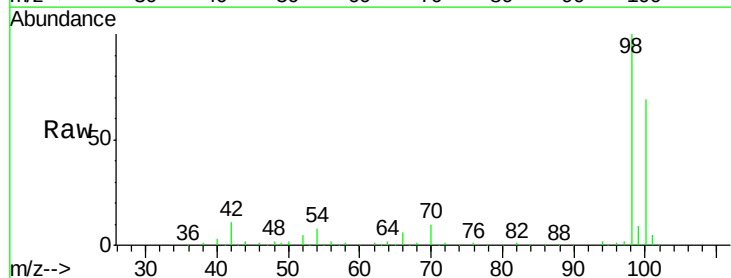
Instrument :
MSVOA_D
ClientSampleId :

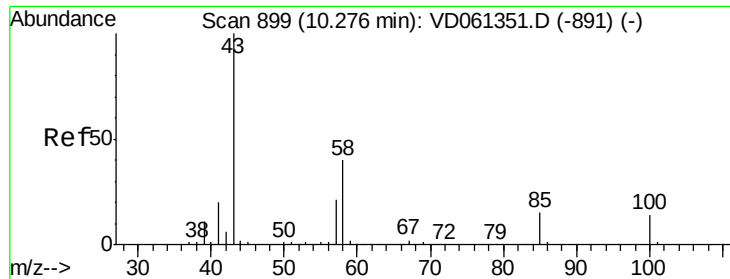
Tot Ion: 41 Resp: 62449
Ion Ratio Lower Upper
41 100
69 2.4 60.2 90.4#
39 46.6 41.4 62.2



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD061470.D
Acq: 1 Apr 2019 15:59

Tgt Ion: 98 Resp: 919945
Ion Ratio Lower Upper
98 100
100 68.5 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 1.128 ug/l

RT: 10.29 min Scan# 901

Delta R.T. 0.02 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

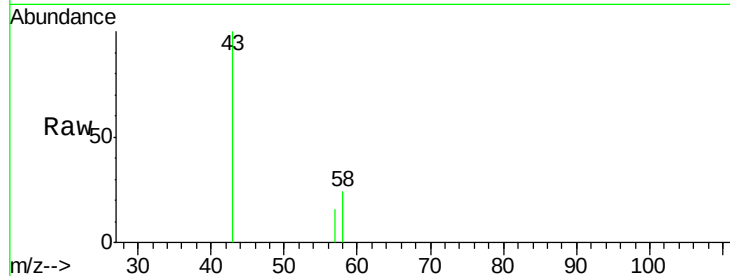
ClientSampleId :

Tot Ion: 43 Resp: 4130

Ion Ratio Lower Upper

43 100

58 24.1 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

2500

2000

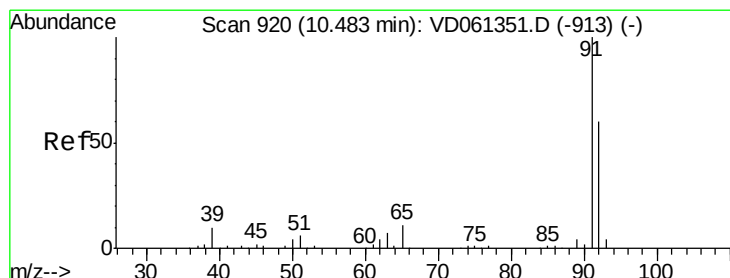
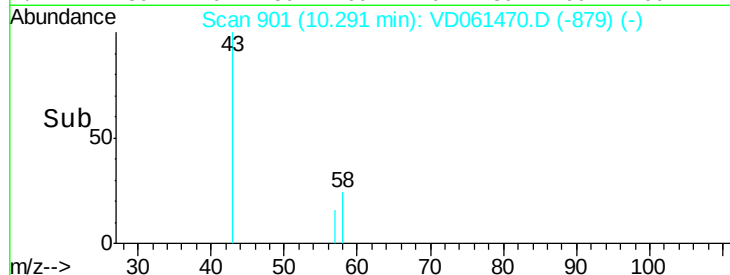
1500

1000

500

0

Time-->



#52

Toluene

Concen: 1.059 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.02 min

Lab File: VD061470.D

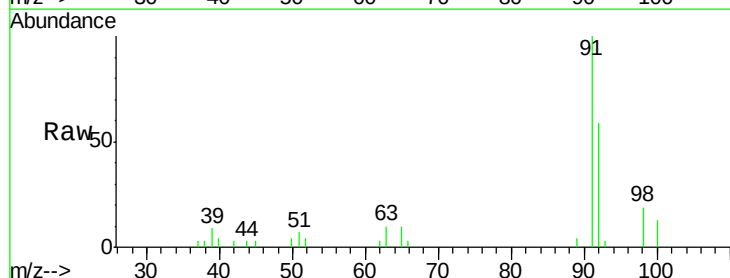
Acq: 1 Apr 2019 15:59

Tgt Ion: 92 Resp: 15671

Ion Ratio Lower Upper

92 100

91 168.4 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

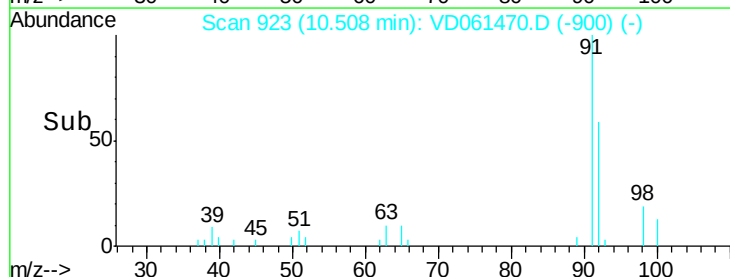
10.51

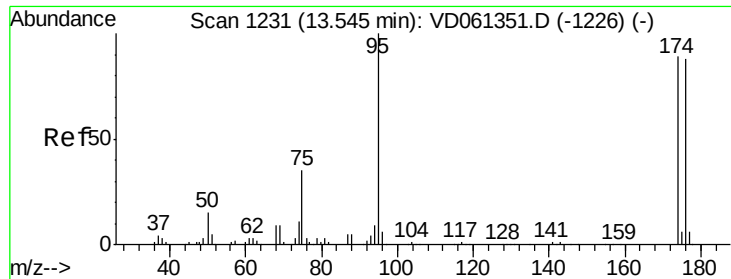
10000

5000

0

Time-->

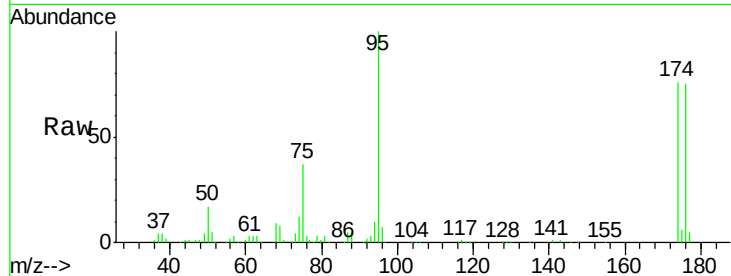




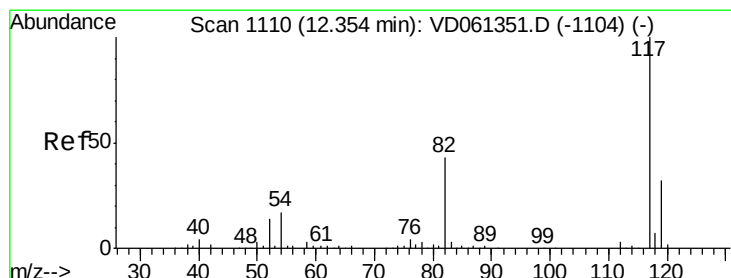
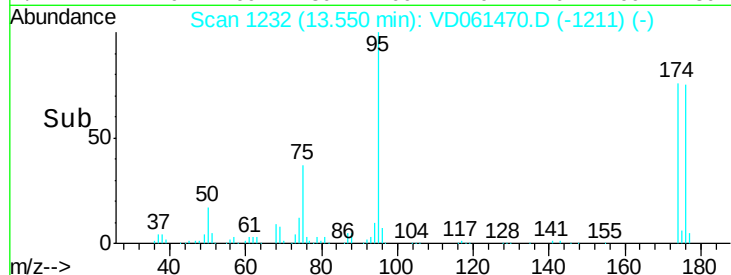
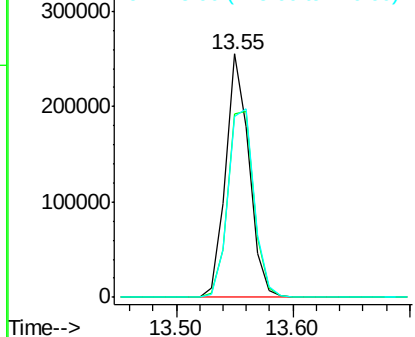
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061470.D
Acq: 1 Apr 2019 15:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 353893
Ion Ratio Lower Upper
95 100
174 75.5 0.0 178.0
176 74.5 0.0 175.0

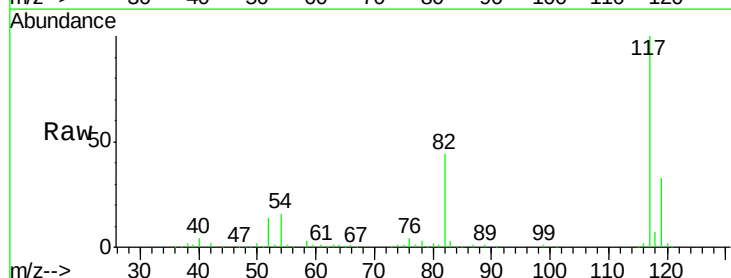


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

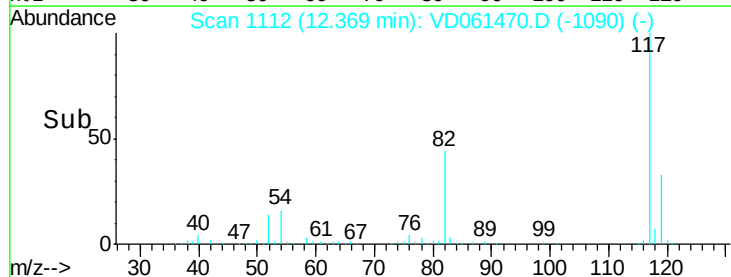
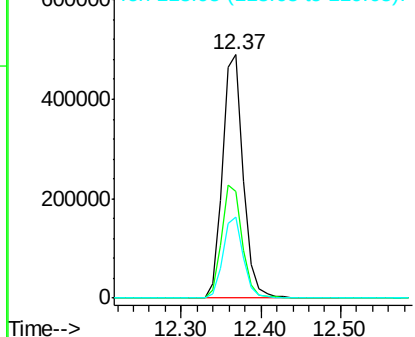


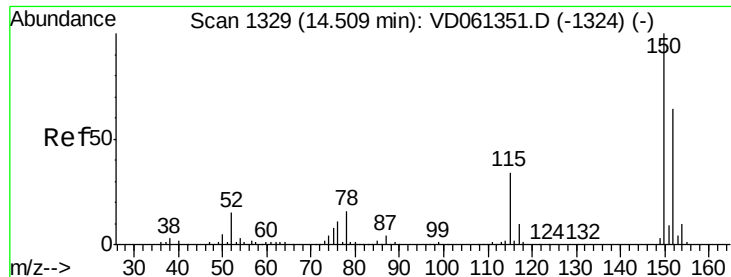
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD061470.D
Acq: 1 Apr 2019 15:59

Tgt Ion: 117 Resp: 898627
Ion Ratio Lower Upper
117 100
82 43.8 34.4 51.6
119 33.3 25.8 38.6



Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

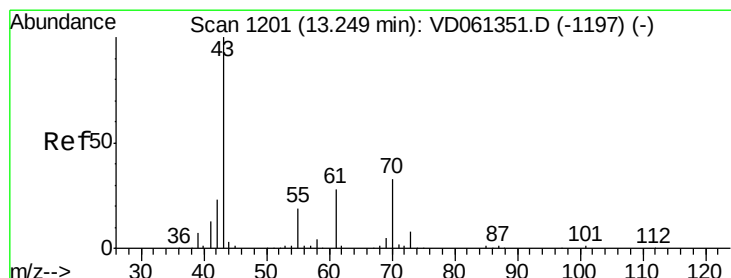
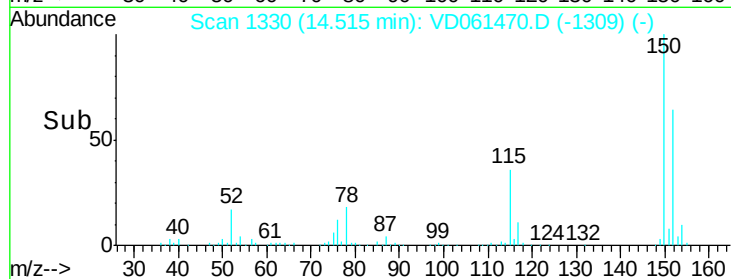
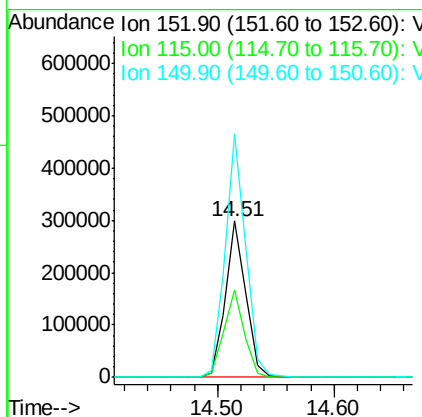
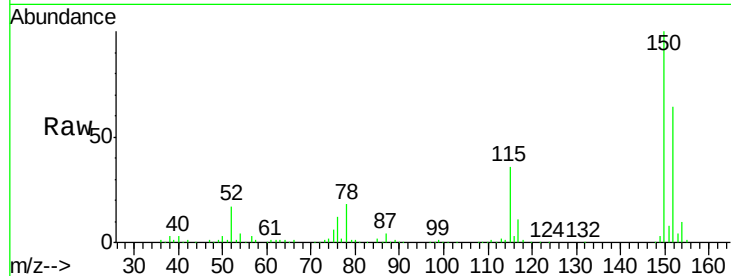




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1330
 Delta R.T. 0.01 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

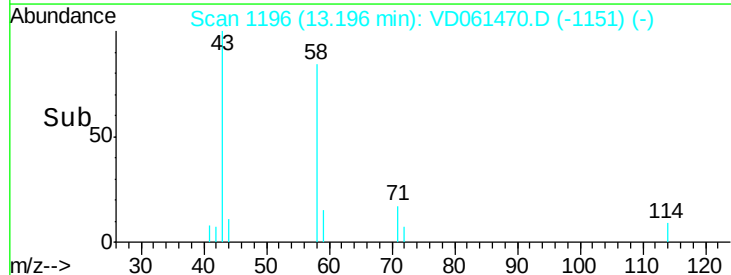
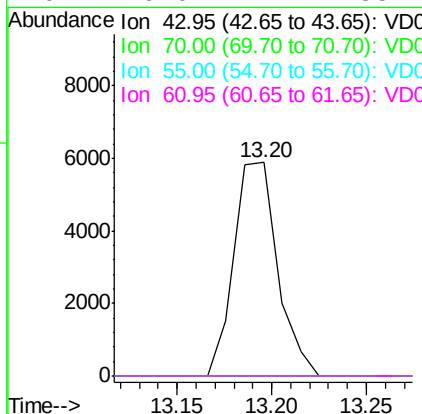
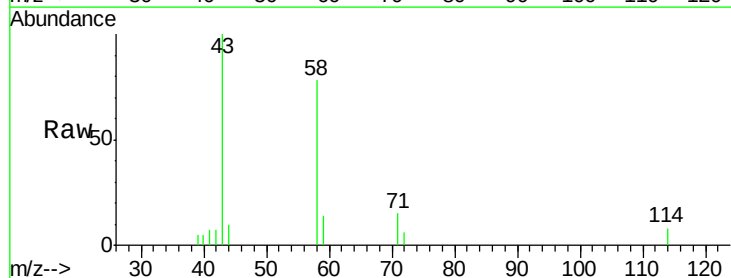
Instrument :
 MSVOA_D
 ClientSampleID :

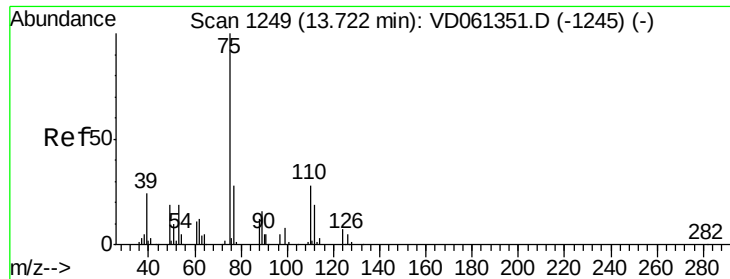
Tot Ion:152 Resp: 363708
 Ion Ratio Lower Upper
 152 100
 115 56.0 26.9 80.6
 150 155.8 0.0 318.0



#74
 N-ethyl acetate
 Concen: 1.333 ug/l
 RT: 13.20 min Scan# 1196
 Delta R.T. -0.05 min
 Lab File: VD061470.D
 Acq: 1 Apr 2019 15:59

Tgt Ion: 43 Resp: 9398
 Ion Ratio Lower Upper
 43 100
 70 0.0 26.6 40.0#
 55 0.0 15.4 23.2#
 61 0.0 22.2 33.4#





#76

1,2,3-Trichloropropane

Concen: 19.717 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

Instrument :

MSVOA_D

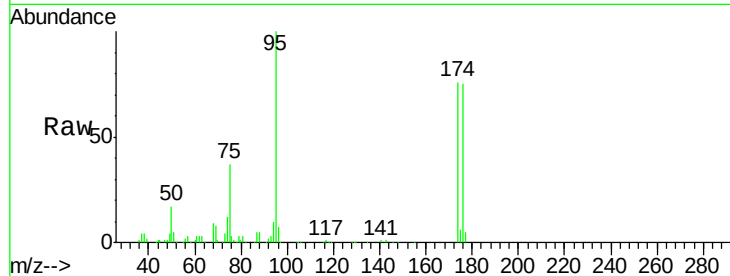
ClientSampleId :

Tot Ion: 75 Resp: 103590

Ion Ratio Lower Upper

75 100

77 1.6 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.55

80000

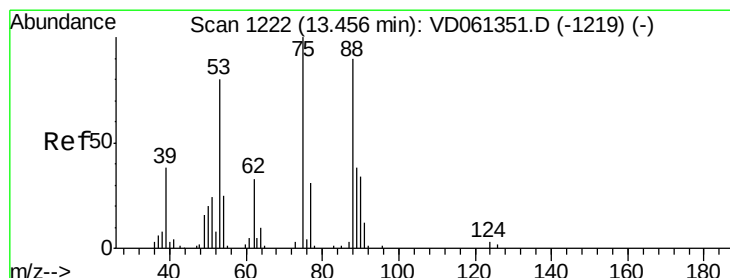
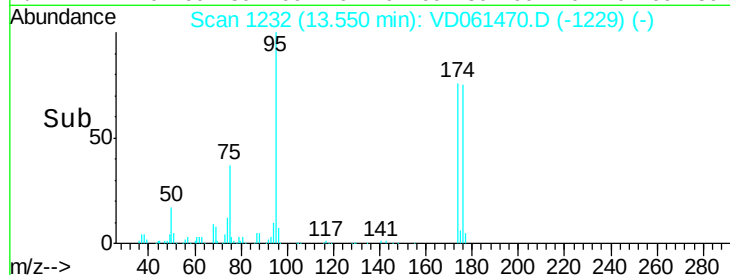
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 81.823 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD061470.D

Acq: 1 Apr 2019 15:59

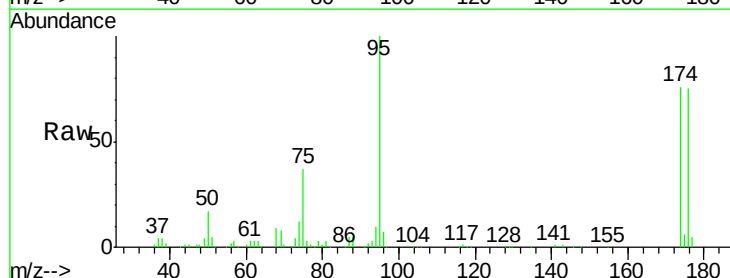
Tgt Ion: 75 Resp: 131073

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

13.55

120000

100000

80000

60000

40000

20000

0

Time-->

