

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060059.D
 Acq On : 20 Sep 2018 20:29
 Operator : VA/AP
 Sample : J5017-07
 Misc : 5.02/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061

Quant Time: Sep 21 01:01:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	66604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	104535	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	88798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	53308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.77	65	51023	98.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	196.48%	
35) Dibromofluoromethane	6.29	113	49308	60.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.76%	
50) Toluene-d8	9.43	98	95755	42.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.62%	
62) 4-Bromofluorobenzene	12.42	95	44778	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	

Target Compounds

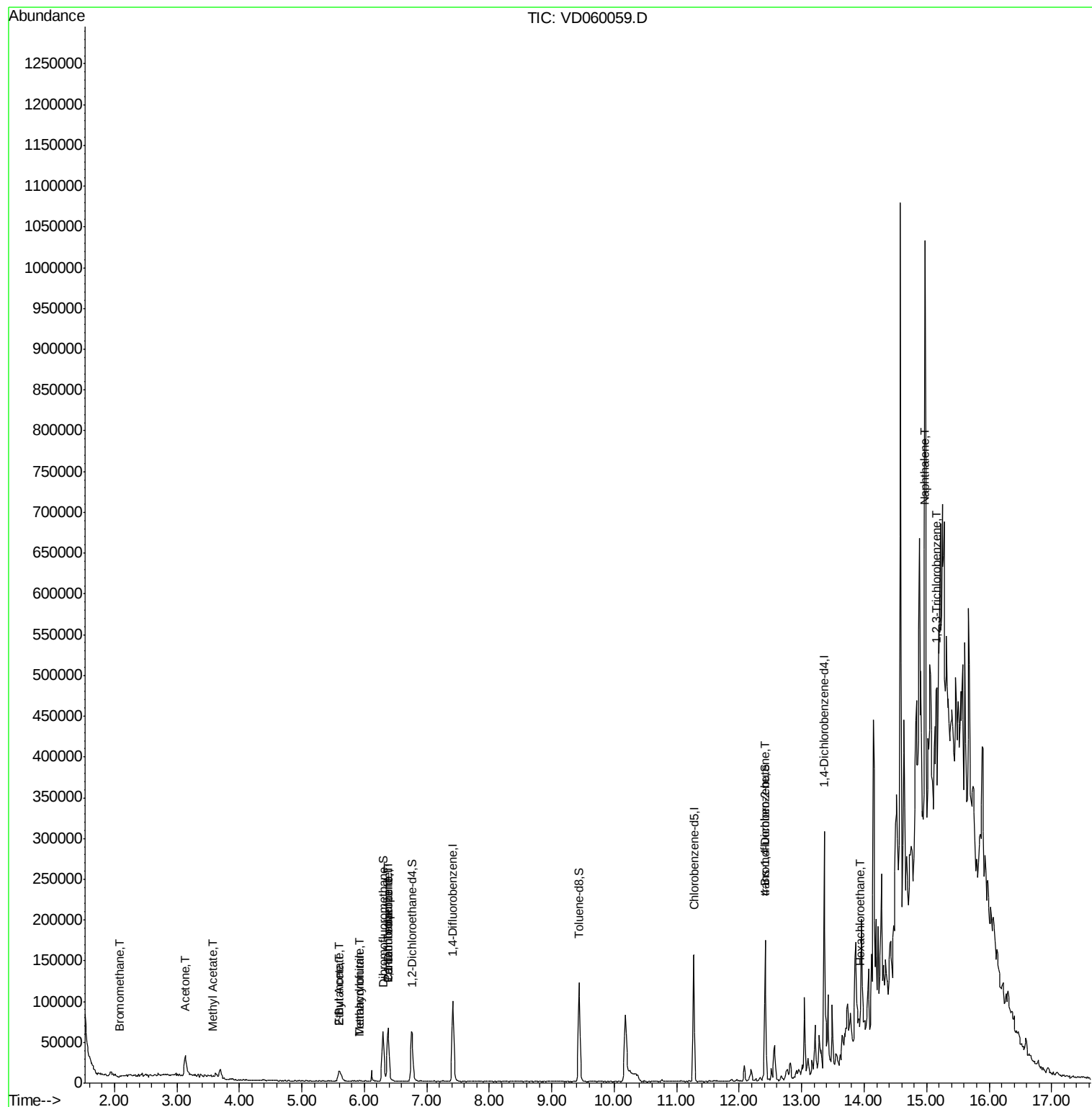
						Qvalue
5) Bromomethane	2.09	94	225	3.81	ug/l #	1
16) Acetone	3.14	43	50478	503.37	ug/l	95
18) Methyl Acetate	3.57	43	1319	6.47	ug/l #	64
20) Methylene Chloride	3.70	84	5055	Below	Cal	86
25) 2-Butanone	5.60	43	24785	91.59	ug/l	100
29) Tetrahydrofuran	5.92	42	1164	8.02	ug/l #	41
36) 1,1-Dichloropropene	6.38	75	4091	3.94	ug/l #	40
37) Ethyl Acetate	5.60	43	24785	34.71	ug/l #	72
38) Carbon Tetrachloride	6.39	117	4732	4.88	ug/l #	12
41) Methacrylonitrile	5.93	41	401	1.07	ug/l #	41
51) 4-Methyl-2-Pentanone	9.33	43	424	Below	Cal #	42
59) 2-Hexanone	10.48	43	328	Below	Cal #	30
81) trans-1,4-Dichloro-2-buten	12.42	75	17677	71.93	ug/l #	15
89) n-Butylbenzene	13.64	91	3718	Below	Cal	69
90) Hexachloroethane	13.93	117	2047	2.77	ug/l #	7
91) 1,2-Dichlorobenzene	13.66	146	491	Below	Cal #	24
95) Naphthalene	14.95	128	5261	2.73	ug/l #	38
96) 1,2,3-Trichlorobenzene	15.17	180	1520	1.38	ug/l	63

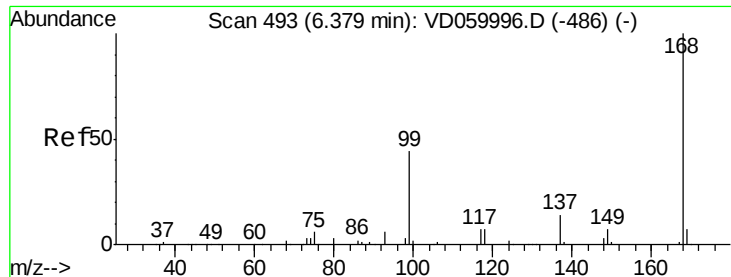
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092018\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

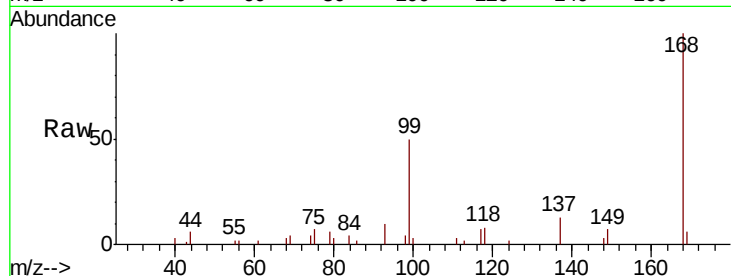
RA-091918-S-NW-061

Tot Ion:168 Resp: 66604

Ion Ratio Lower Upper

168 100

99 50.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

25000

20000

15000

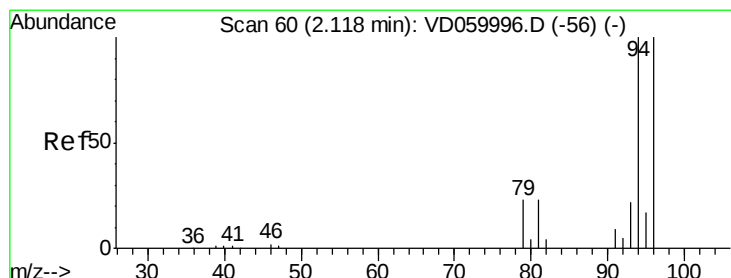
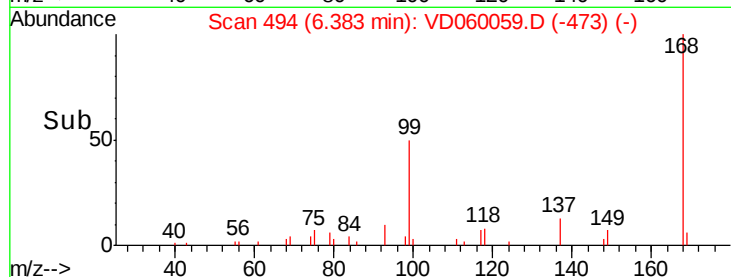
10000

5000

0

Time-->

6.30 6.40 6.50



#5

Bromomethane

Concen: 3.81 ug/l

RT: 2.09 min Scan# 58

Delta R.T. -0.03 min

Lab File: VD060059.D

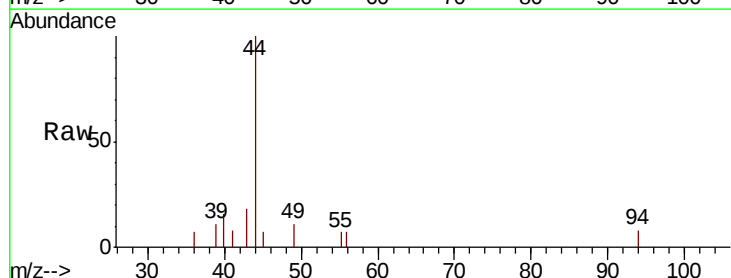
Acq: 20 Sep 2018 20:29

Tgt Ion: 94 Resp: 225

Ion Ratio Lower Upper

94 100

96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.09

400

300

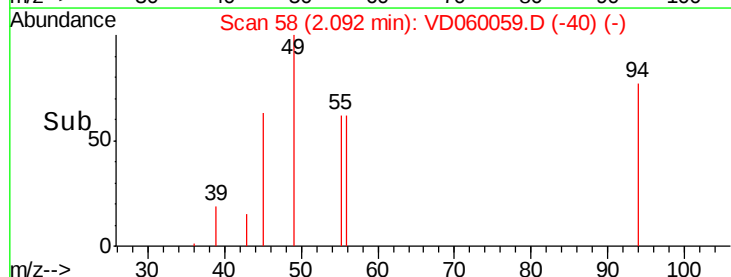
200

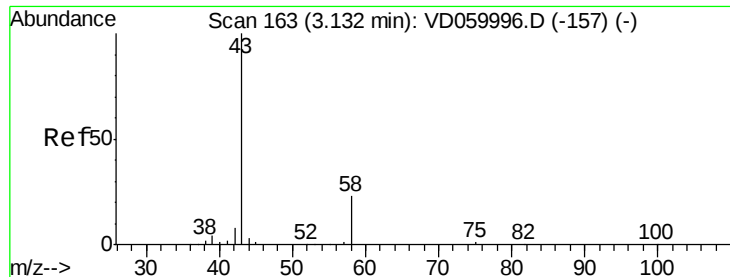
100

0

Time-->

2.06 2.08 2.10 2.12





#16

Acetone

Concen: 503.37 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

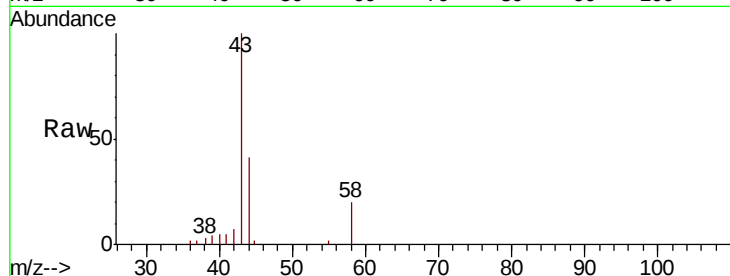
RA-091918-S-NW-061

Tot Ion: 43 Resp: 50478

Ion Ratio Lower Upper

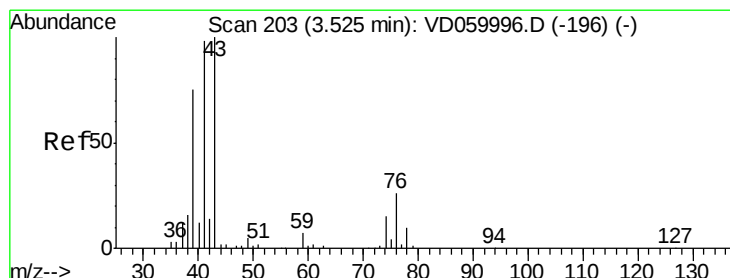
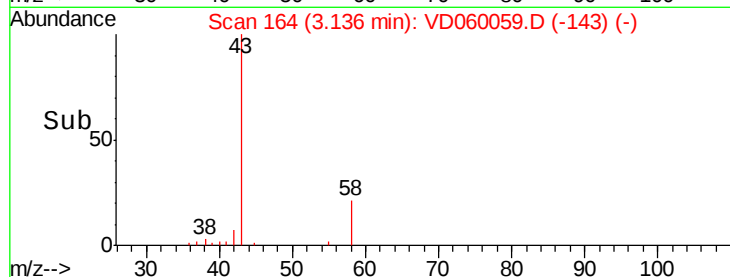
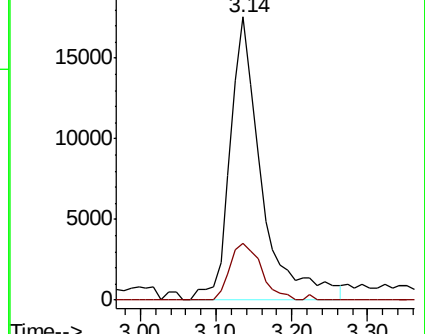
43 100

58 20.3 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 6.47 ug/l

RT: 3.57 min Scan# 208

Delta R.T. 0.04 min

Lab File: VD060059.D

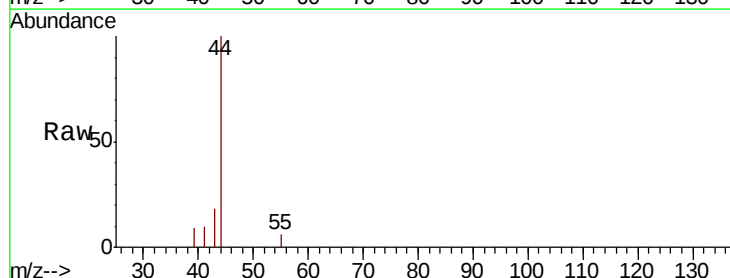
Acq: 20 Sep 2018 20:29

Tgt Ion: 43 Resp: 1319

Ion Ratio Lower Upper

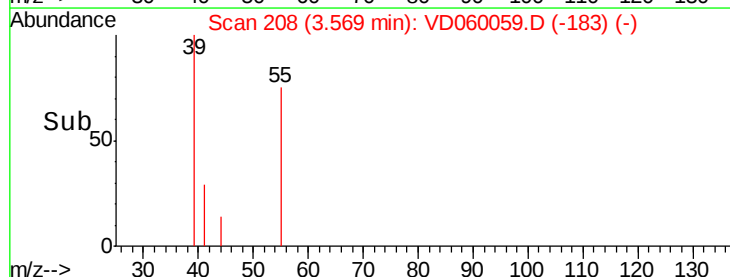
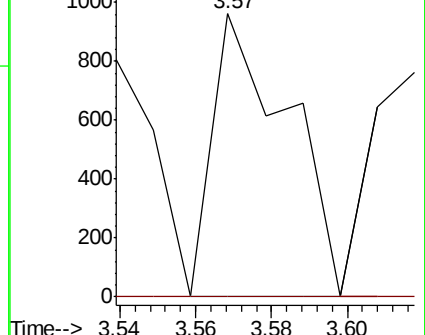
43 100

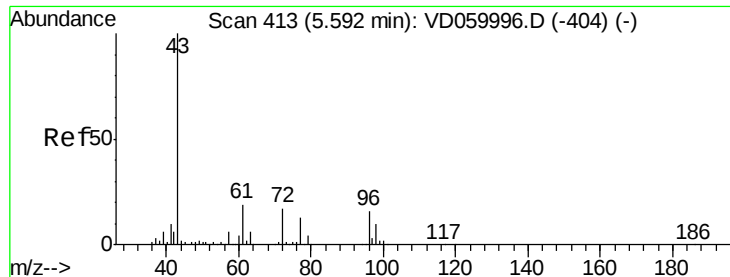
74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 91.59 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

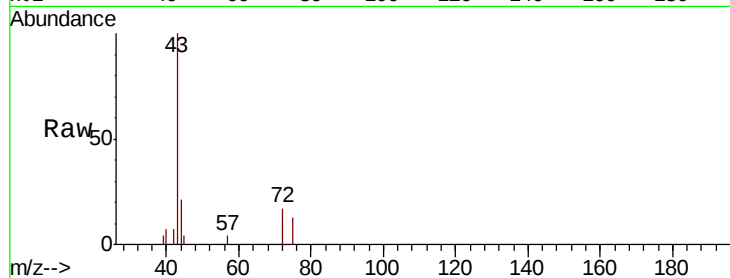
RA-091918-S-NW-061

Tot Ion: 43 Resp: 24785

Ion Ratio Lower Upper

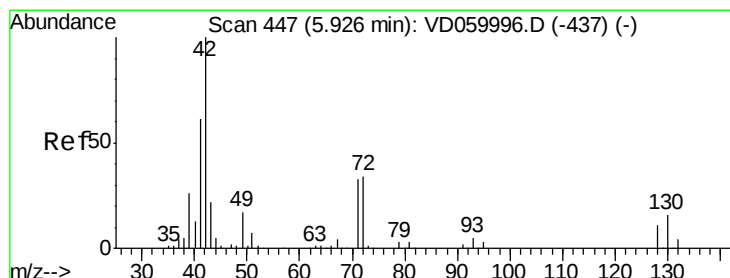
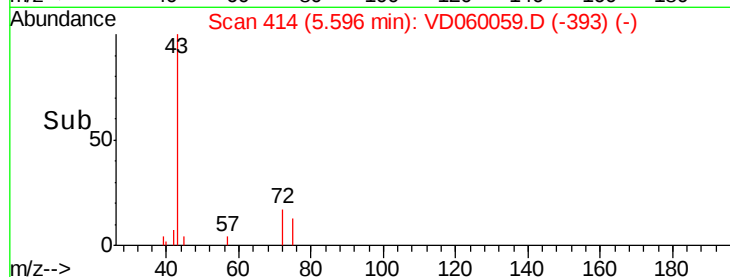
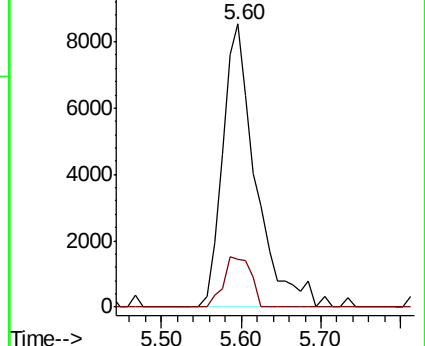
43 100

72 16.9 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 8.02 ug/l

RT: 5.92 min Scan# 447

Delta R.T. -0.01 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

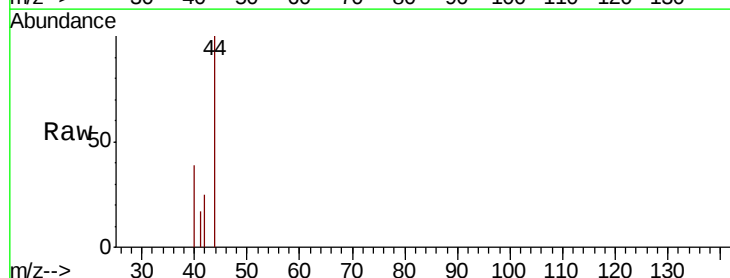
Tgt Ion: 42 Resp: 1164

Ion Ratio Lower Upper

42 100

72 0.0 26.9 40.3#

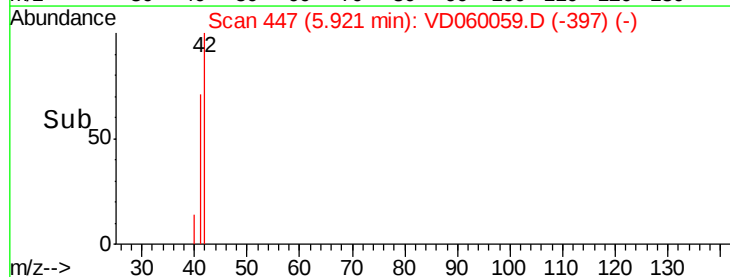
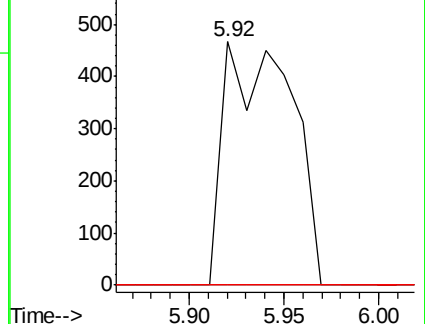
71 0.0 26.2 39.4#

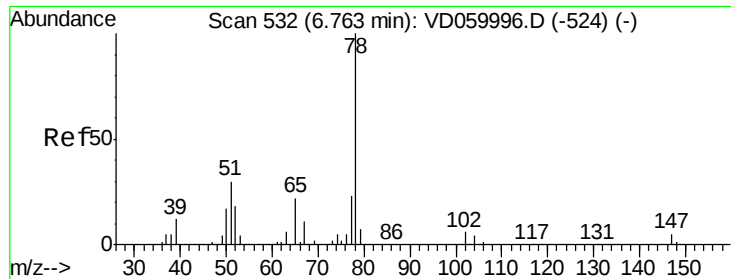


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.77 min Scan# 533

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

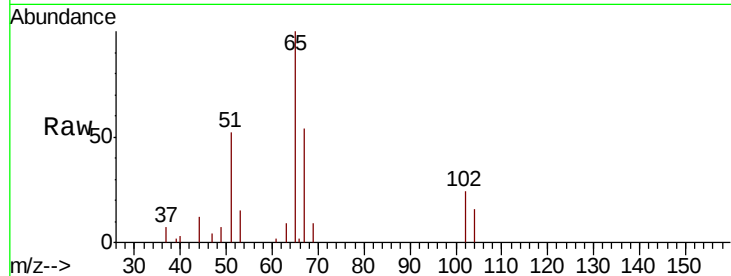
RA-091918-S-NW-061

Tot Ion: 65 Resp: 51023

Ion Ratio Lower Upper

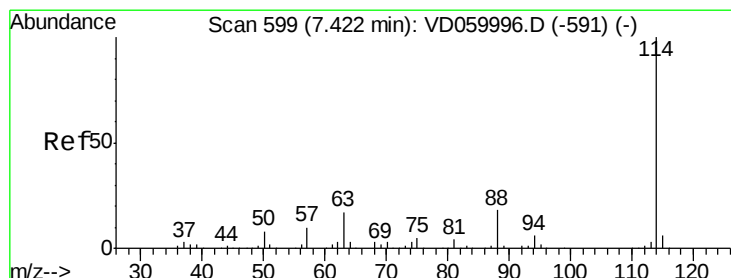
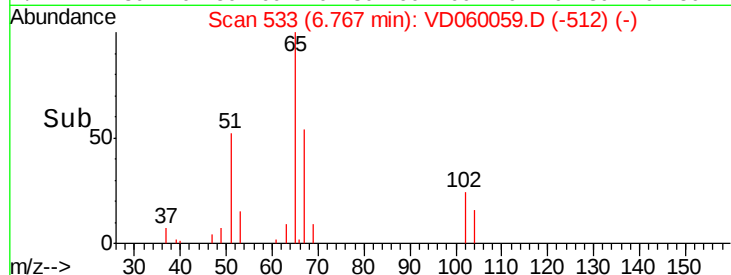
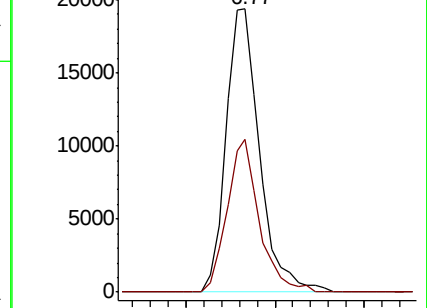
65 100

67 54.2 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 599

Delta R.T. -0.01 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

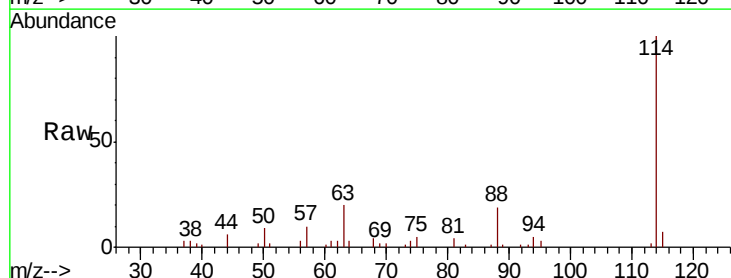
Tgt Ion: 114 Resp: 104535

Ion Ratio Lower Upper

114 100

63 19.6 0.0 34.4

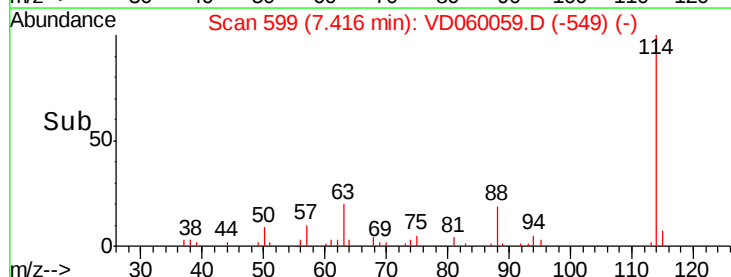
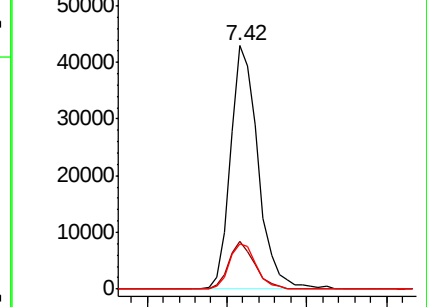
88 18.5 0.0 35.8

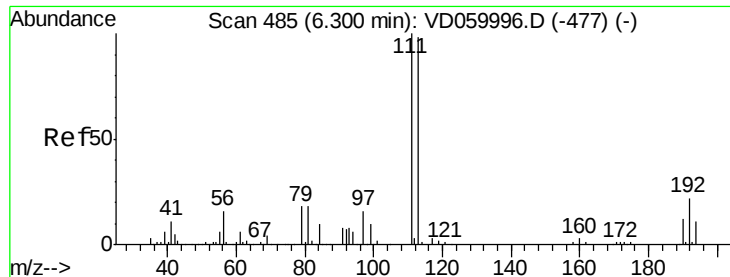


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.29 min Scan# 485

Delta R.T. -0.01 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061

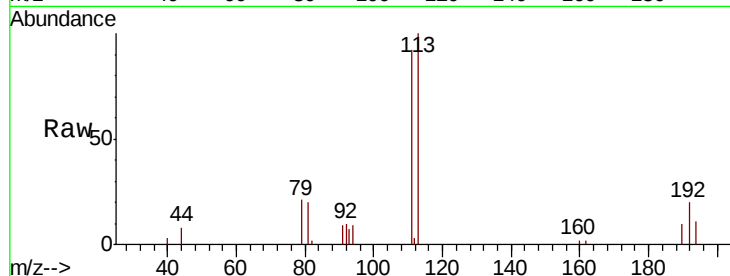
Tot Ion:113 Resp: 49308

Ion Ratio Lower Upper

113 100

111 92.1 81.3 121.9

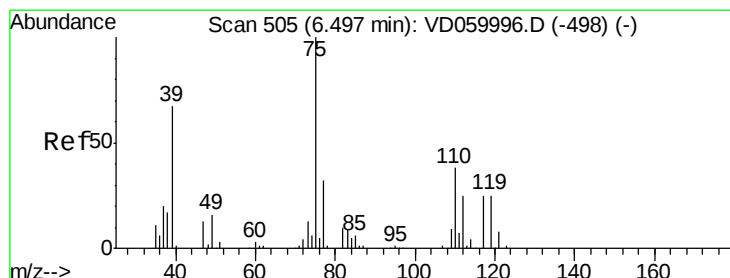
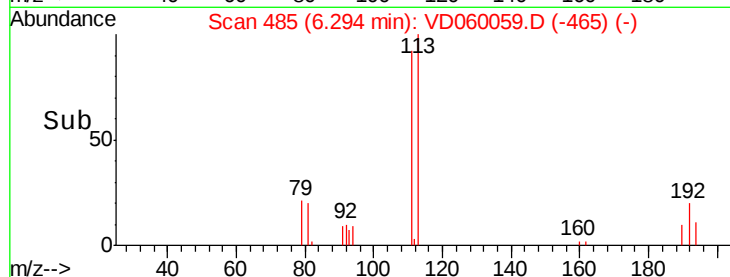
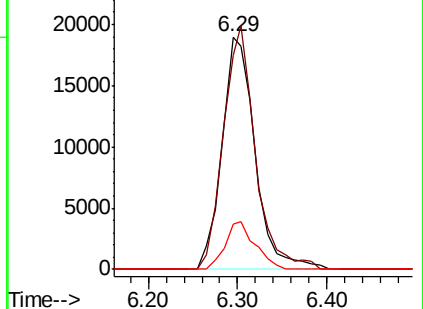
192 19.5 18.1 27.1



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: 3.94 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.11 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

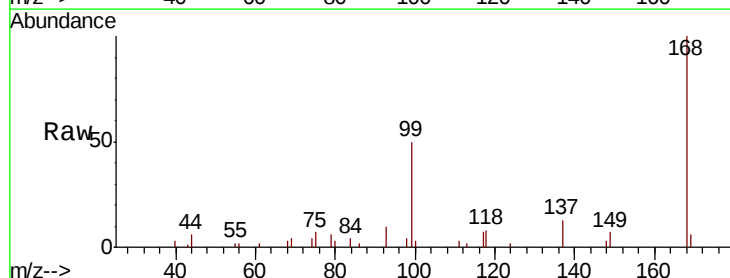
Tgt Ion: 75 Resp: 4091

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.9#

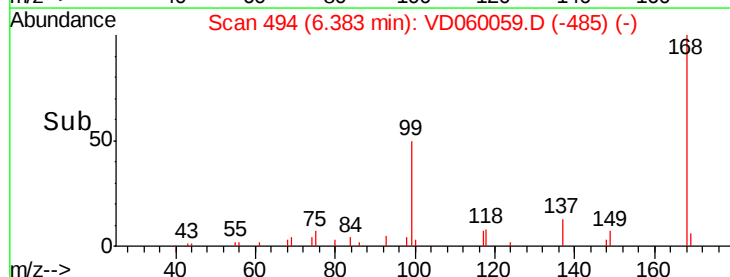
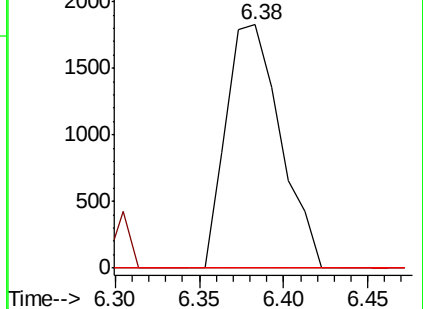
77 0.0 25.3 37.9#

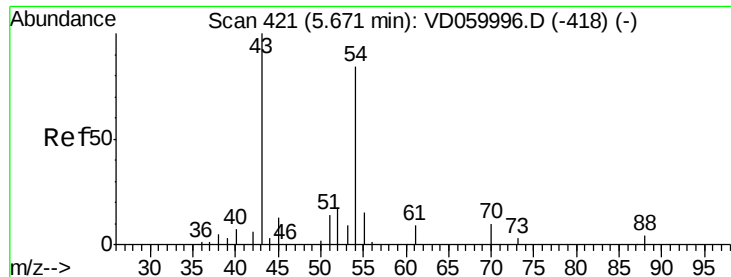


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

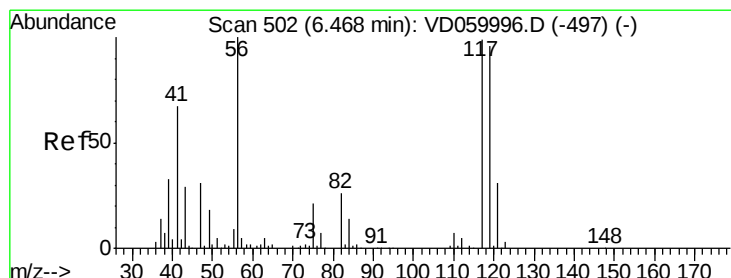
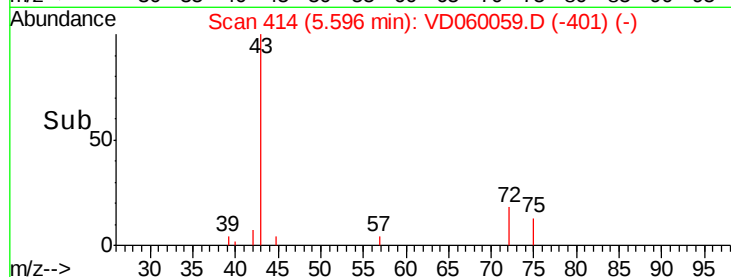
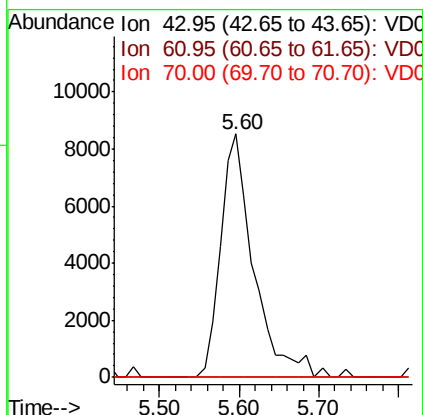
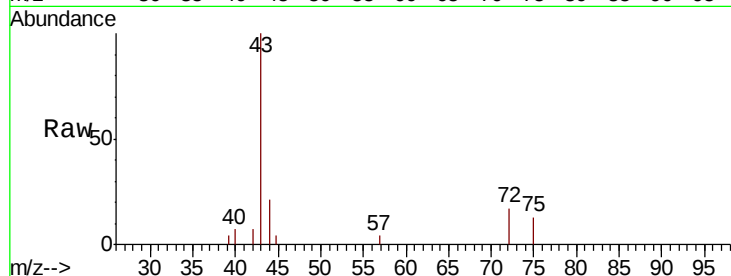




#37
Ethyl Acetate
Concen: 34.71 ug/l
RT: 5.60 min Scan# 414
Delta R.T. -0.07 min
Lab File: VD060059.D
Acq: 20 Sep 2018 20:29

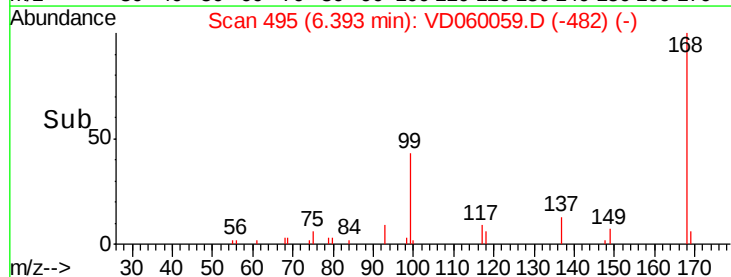
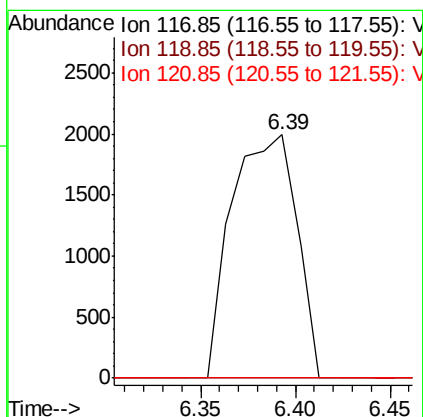
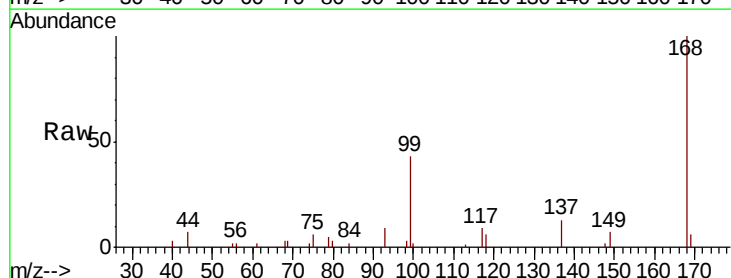
Instrument :
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RA-091918-S-NW-061

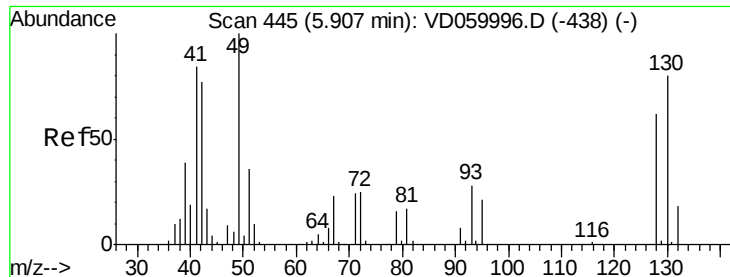
Tot Ion: 43 Resp: 24785
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 6.1 9.1#



#38
Carbon Tetrachloride
Concen: 4.88 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.07 min
Lab File: VD060059.D
Acq: 20 Sep 2018 20:29

Tgt Ion: 117 Resp: 4732
Ion Ratio Lower Upper
117 100
119 0.0 76.7 115.1#
121 0.0 24.9 37.3#

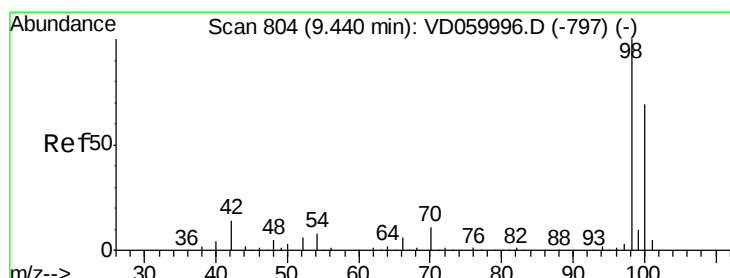
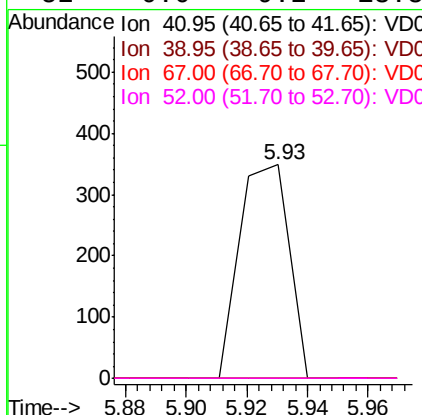
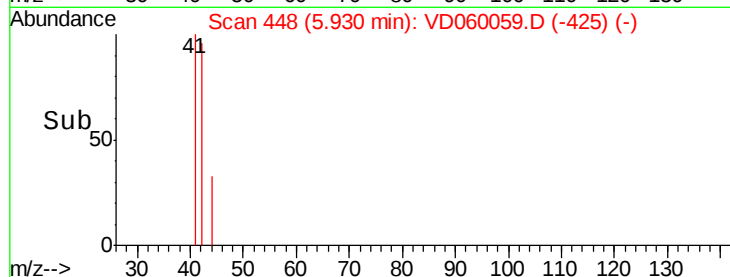
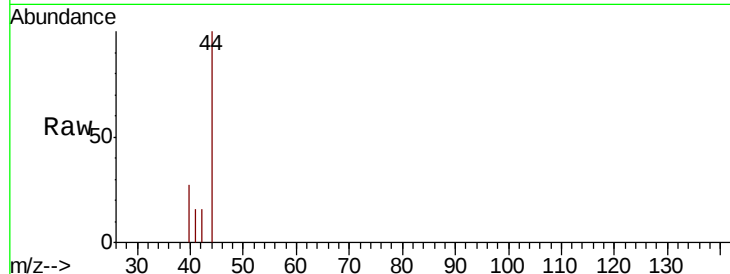




#41
Methacrylonitrile
Concen: 1.07 ug/l
RT: 5.93 min Scan# 448
Delta R.T. 0.02 min
Lab File: VD060059.D
Acq: 20 Sep 2018 20:29

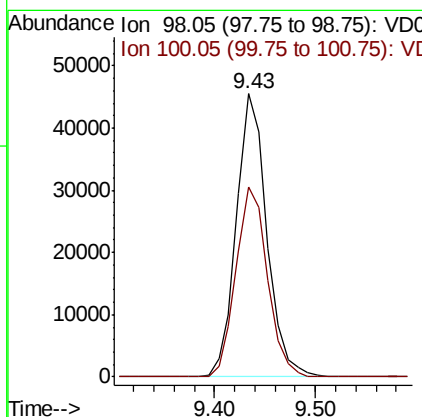
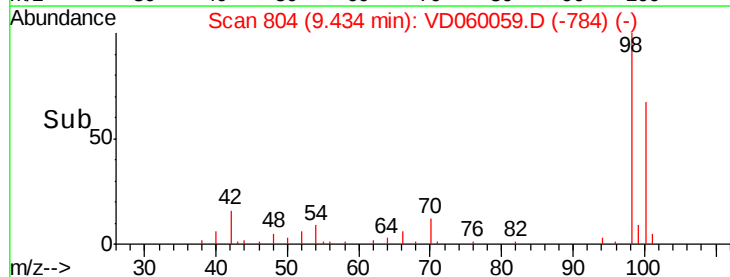
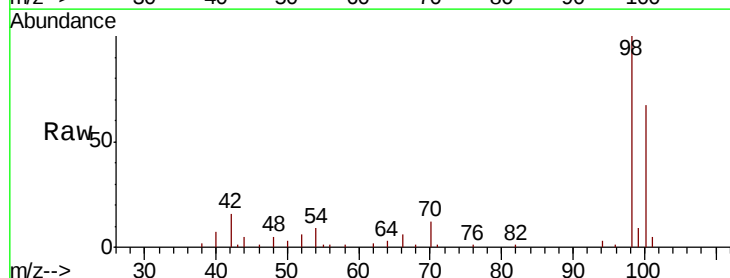
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061

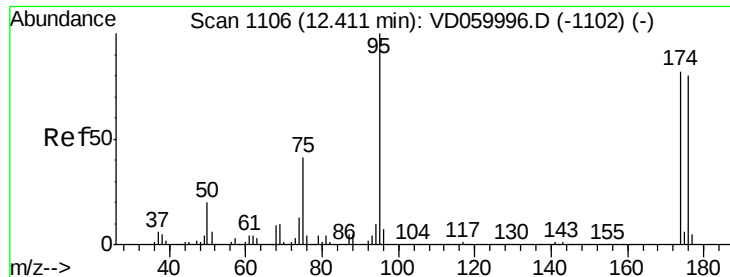
Tot Ion: 41 Resp: 401
Ion Ratio Lower Upper
41 100
39 0.0 37.5 56.3#
67 0.0 21.5 32.3#
52 0.0 9.2 13.8#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 804
Delta R.T. -0.01 min
Lab File: VD060059.D
Acq: 20 Sep 2018 20:29

Tgt Ion: 98 Resp: 95755
Ion Ratio Lower Upper
98 100
100 67.3 55.8 83.6





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061

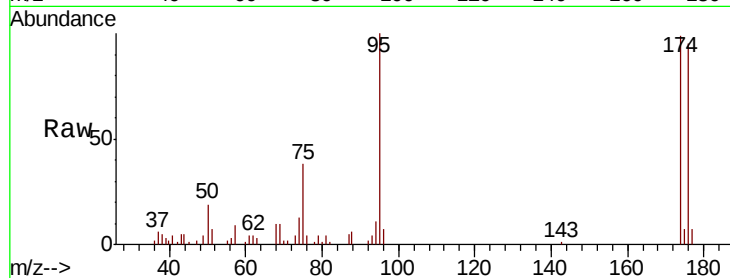
Tot Ion: 95 Resp: 44778

Ion Ratio Lower Upper

95 100

174 99.1 0.0 165.0

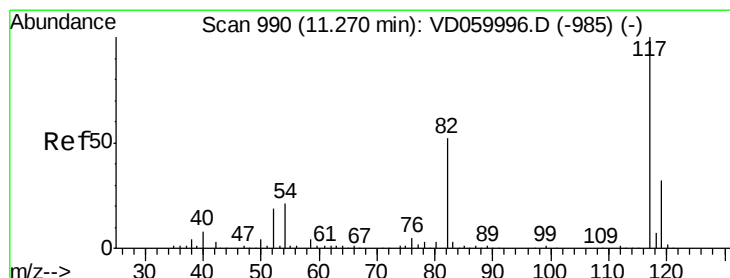
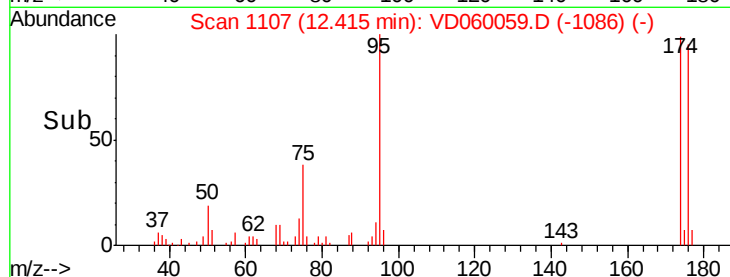
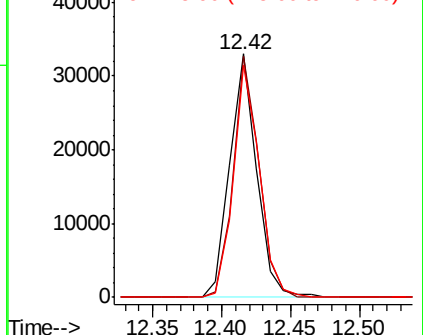
176 95.2 0.0 160.2



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: 50.00 ug/l

RT: 11.27 min Scan# 991

Delta R.T. 0.00 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

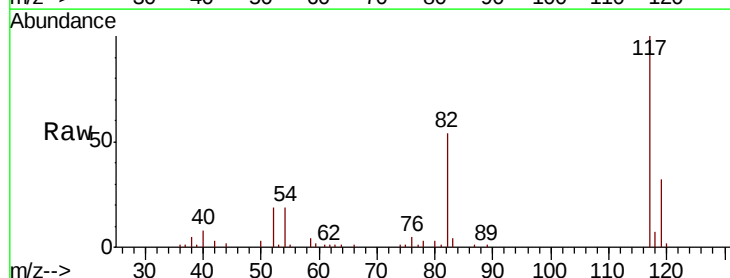
Tgt Ion: 117 Resp: 88798

Ion Ratio Lower Upper

117 100

82 54.0 41.7 62.5

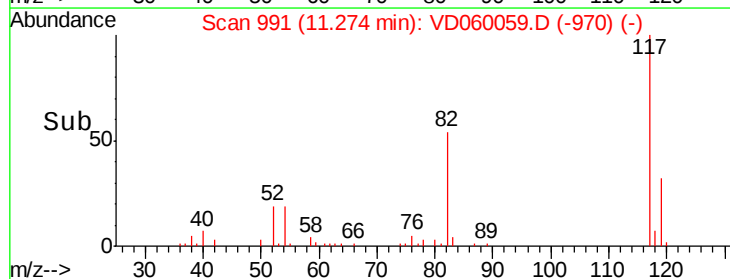
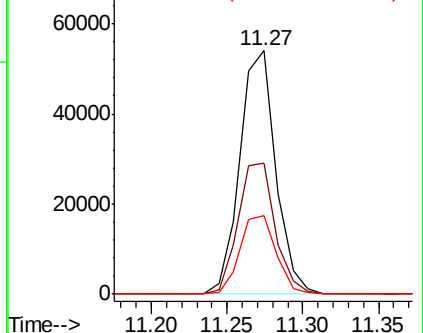
119 32.1 26.0 39.0

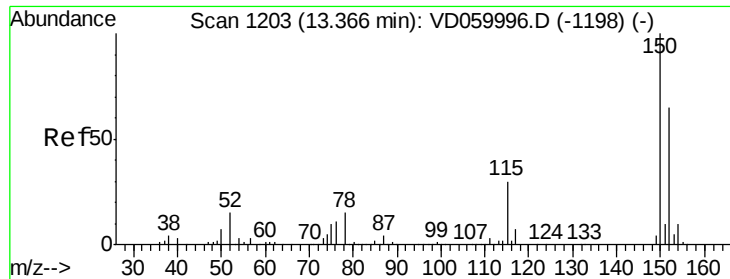


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061

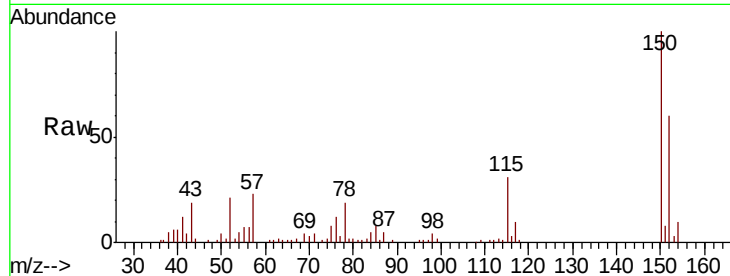
Tot Ion:152 Resp: 53308

Ion Ratio Lower Upper

152 100

115 51.2 24.6 73.8

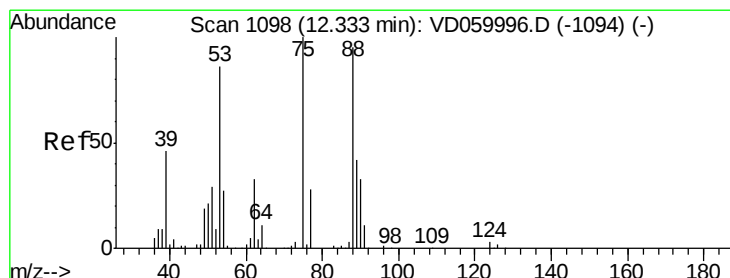
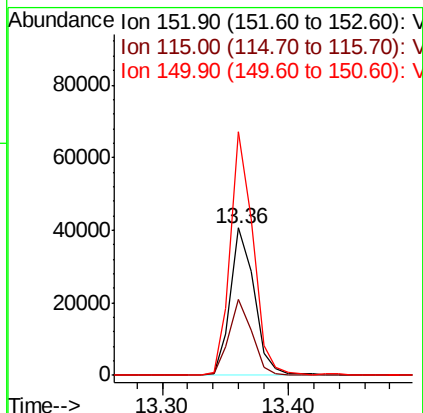
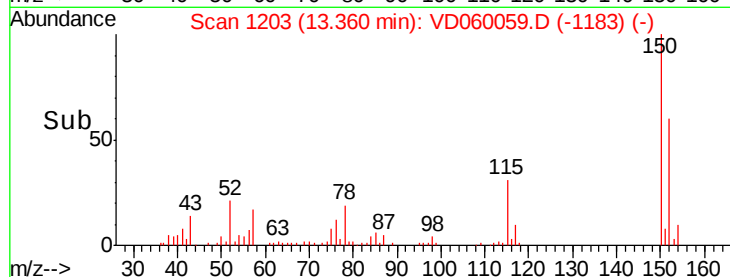
150 165.5 0.0 313.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.93 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.08 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

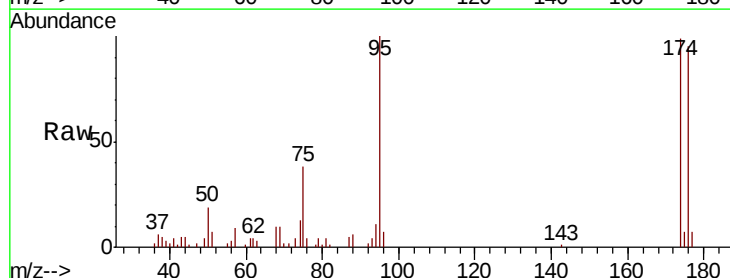
Tgt Ion: 75 Resp: 17677

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

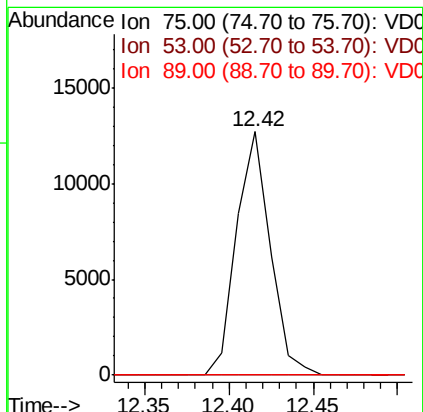
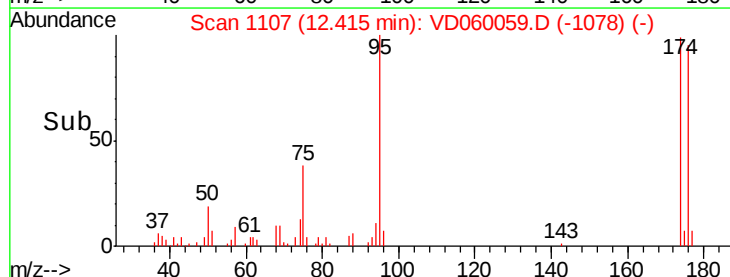
89 0.0 33.8 50.6#

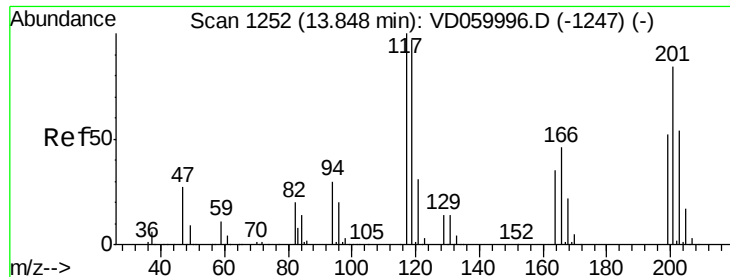


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#90

Hexachloroethane

Concen: 2.77 ug/l

RT: 13.93 min Scan# 1261

Delta R.T. 0.08 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

Instrument :

MSVOA_D

ClientSampleId :

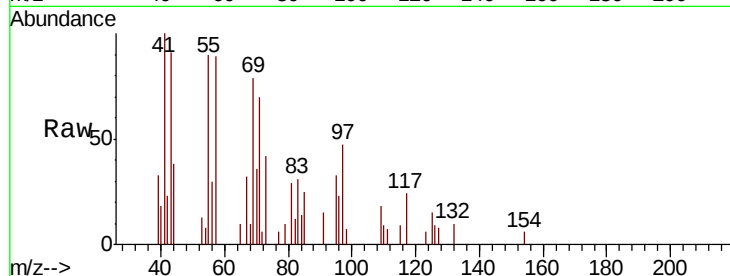
RA-091918-S-NW-061

Tot Ion:117 Resp: 2047

Ion Ratio Lower Upper

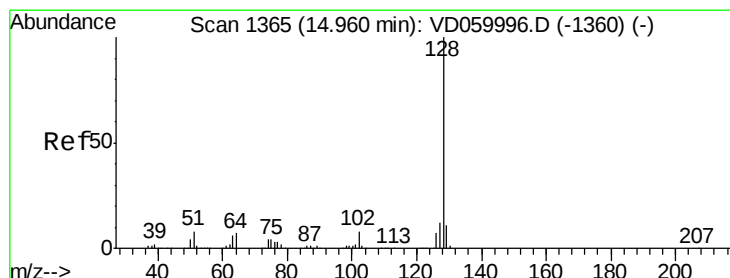
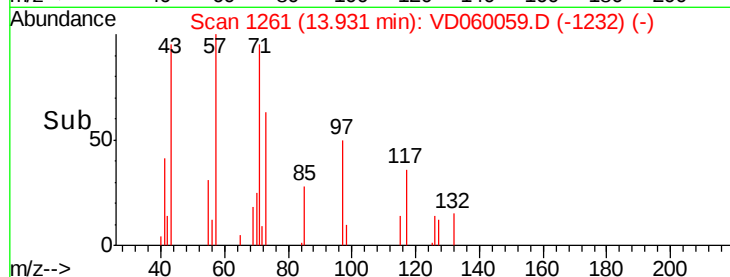
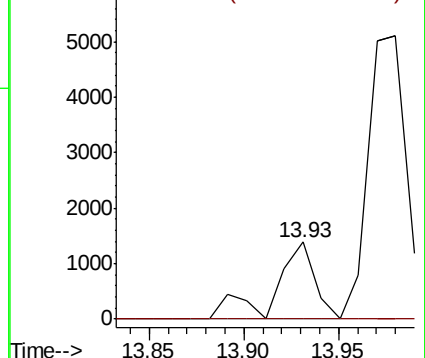
117 100

201 0.0 42.1 126.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 2.73 ug/l

RT: 14.95 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VD060059.D

Acq: 20 Sep 2018 20:29

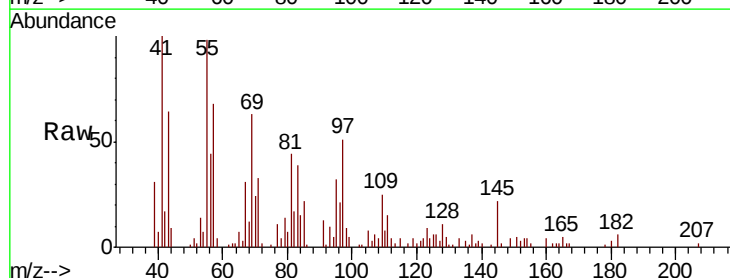
Tgt Ion:128 Resp: 5261

Ion Ratio Lower Upper

128 100

127 27.9 9.7 14.5#

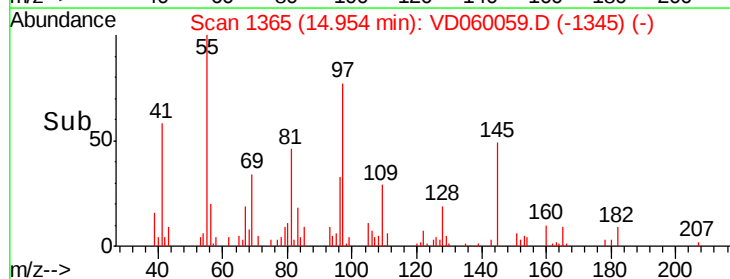
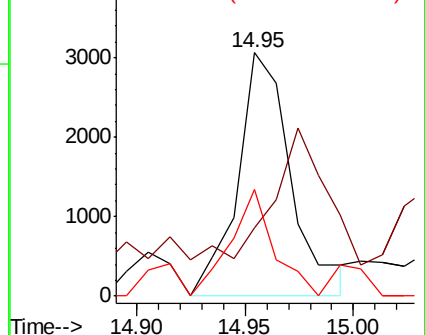
129 43.6 8.9 13.3#

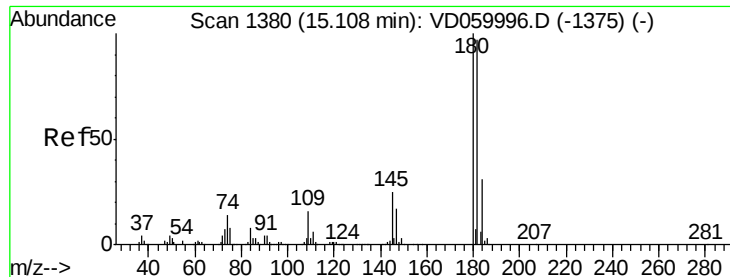


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.38 ug/l
 RT: 15.17 min Scan# 1387
 Delta R.T. 0.06 min
 Lab File: VD060059.D
 Acq: 20 Sep 2018 20:29

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061

Tot Ion	Ratio	Lower	Upper
180	100		
182	52.0	48.6	145.9
145	27.6	12.7	38.1

