

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091918\
 Data File : VD060047.D
 Acq On : 19 Sep 2018 18:08
 Operator : JC/SY
 Sample : J4778-01
 Misc : 12.18g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 20 05:45:23 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	6.40	168	33815	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	53185	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.28	117	55316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	32704	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	21968	83.31	ug/l	0.02
Spiked Amount			Recovery	=	166.62%	
35) Dibromofluoromethane	6.31	113	19526	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	9.45	98	45946	39.90	ug/l	0.00
Spiked Amount			Recovery	=	79.80%	
62) 4-Bromofluorobenzene	12.43	95	22049	50.12	ug/l	0.02
Spiked Amount			Recovery	=	100.24%	

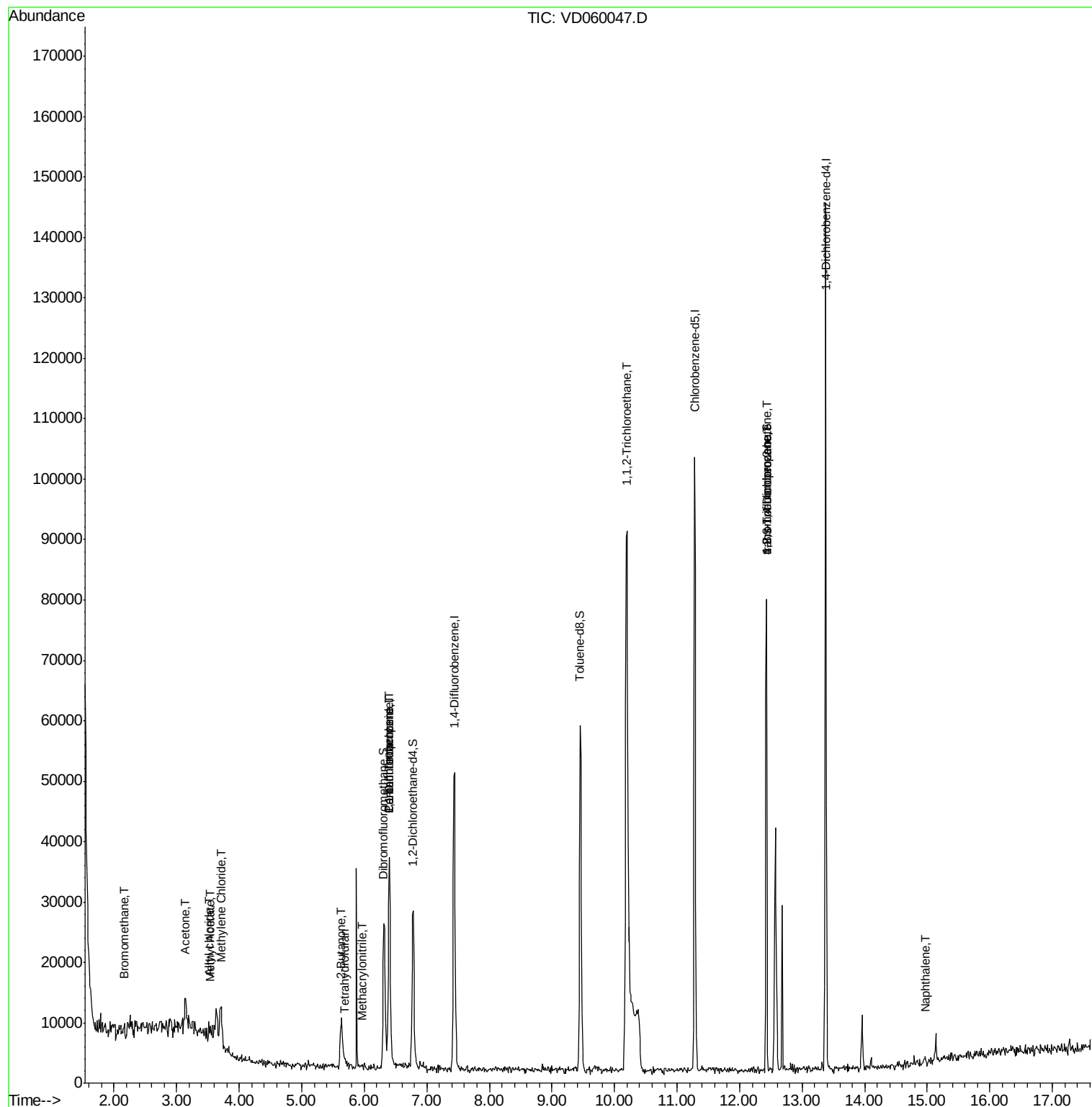
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	736	24.53	ug/l #	1
14) Allyl chloride	3.51	41	2610	8.89	ug/l #	80
16) Acetone	3.14	43	9973	195.88	ug/l	93
18) Methyl Acetate	3.53	43	659	6.36	ug/l #	64
20) Methylene Chloride	3.71	84	3713	3.55	ug/l #	80
25) 2-Butanone	5.62	43	1629	11.86	ug/l #	61
29) Tetrahydrofuran	5.69	42	179	2.43	ug/l #	41
36) 1,1-Dichloropropene	6.40	75	2011	3.81	ug/l #	40
38) Carbon Tetrachloride	6.40	117	2428	4.92	ug/l #	12
41) Methacrylonitrile	5.96	41	198	1.04	ug/l #	41
51) 4-Methyl-2-Pentanone	9.33	43	417	Below Cal	#	42
55) 1,1,2-Trichloroethane	10.21	97	313	1.04	ug/l #	14
76) 1,2,3-Trichloropropane	12.42	75	8659	17.34	ug/l #	42
81) trans-1,4-Dichloro-2-buten	12.42	75	9473	62.83	ug/l #	15
95) Naphthalene	14.97	128	1344	1.14	ug/l #	70

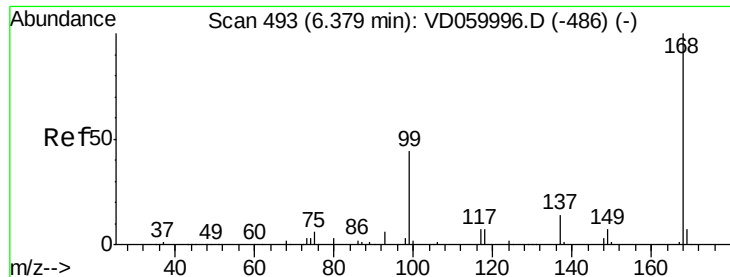
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.40 min Scan# 495

Delta R.T. 0.02 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

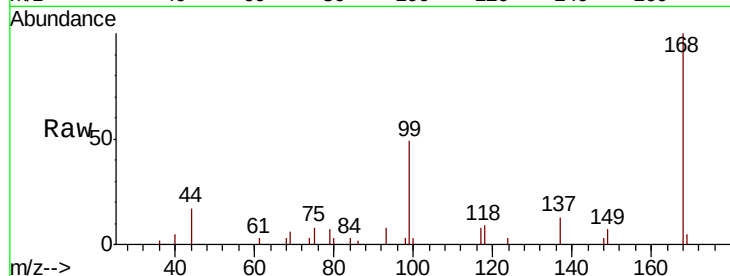
ClientSampleId :

Tot Ion:168 Resp: 33815

Ion Ratio Lower Upper

168 100

99 48.7 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

15000

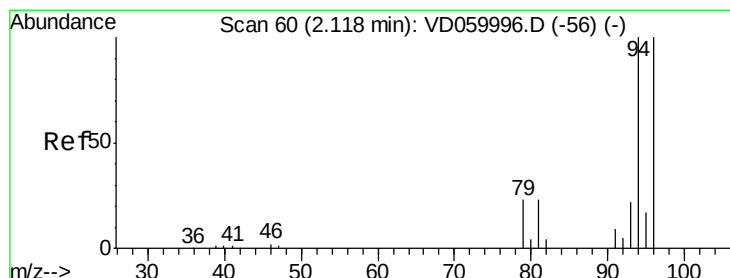
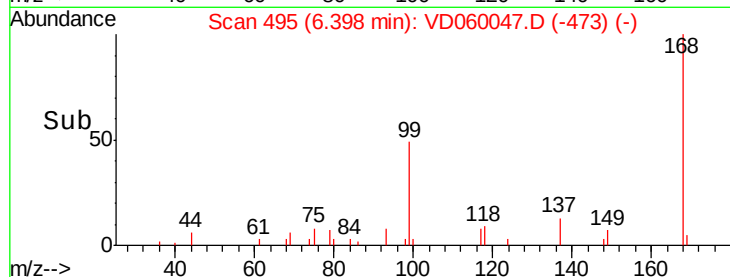
10000

5000

0

Time-->

6.30 6.40 6.50



#5

Bromomethane

Concen: 24.53 ug/l

RT: 2.16 min Scan# 64

Delta R.T. 0.04 min

Lab File: VD060047.D

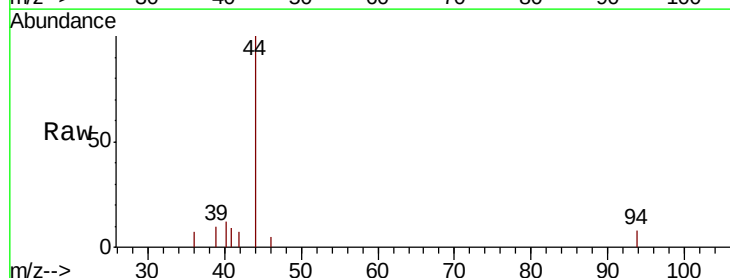
Acq: 19 Sep 2018 18:08

Tgt Ion: 94 Resp: 736

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

2.16

500

400

300

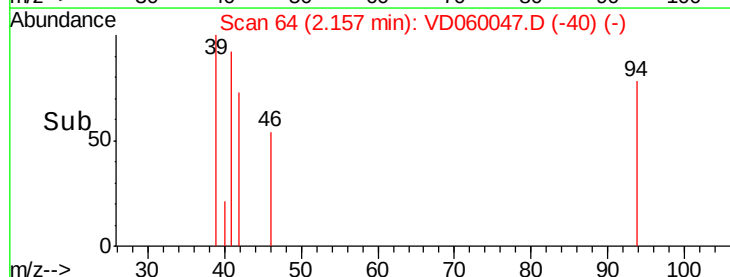
200

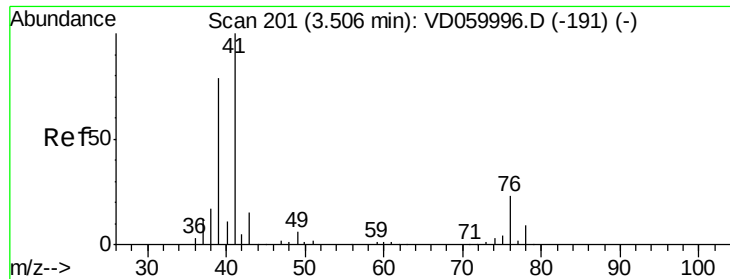
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0

Time-->

2.10 2.15 2.20

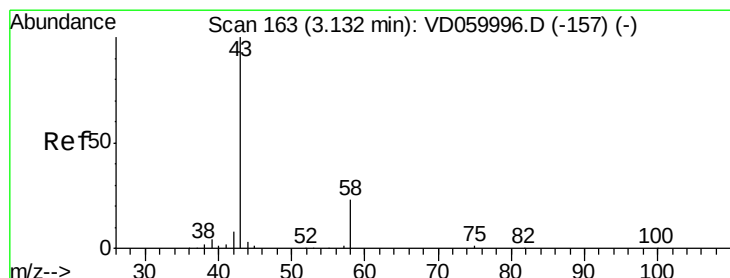
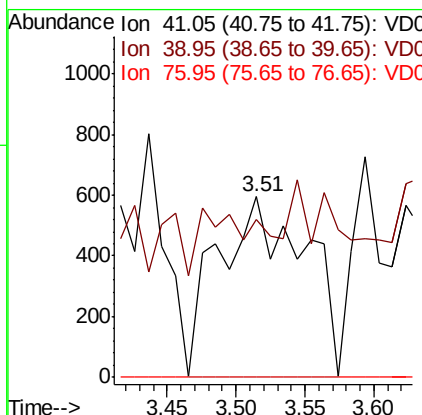
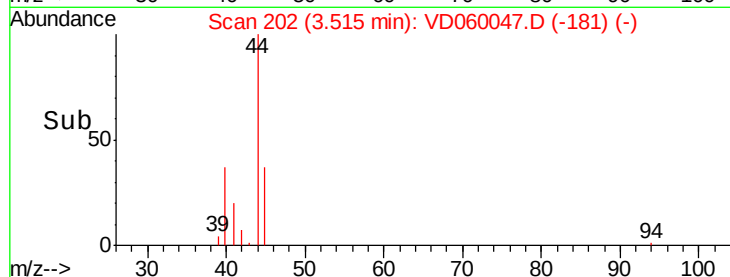
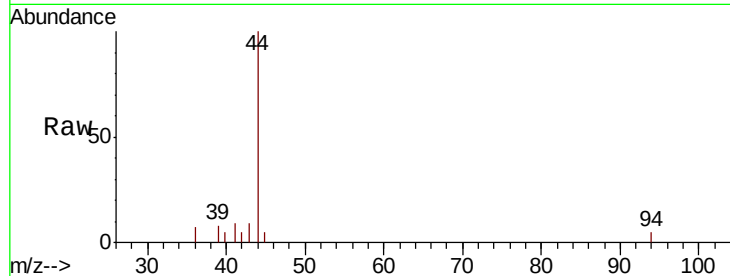




#14
Allvl chloride
Concen: 8.89 ug/l
RT: 3.51 min Scan# 202
Delta R.T. 0.01 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

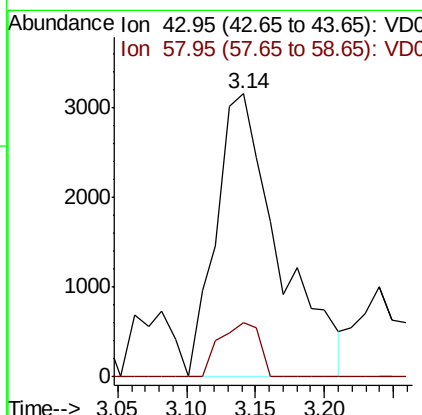
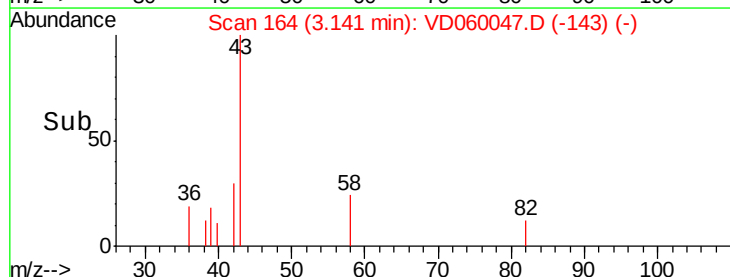
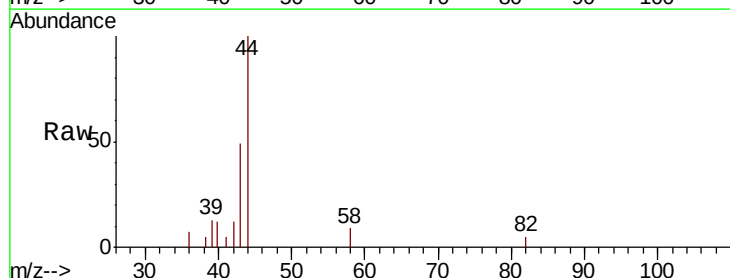
Instrument :
MSVOA_D
ClientSampleId :

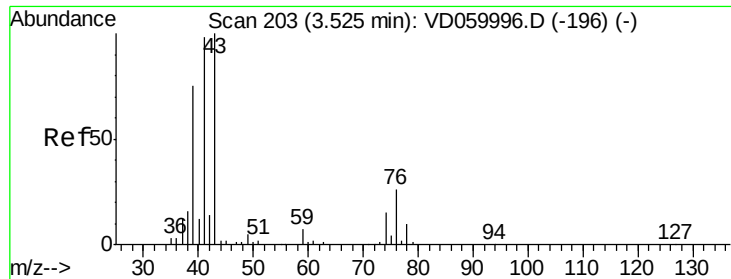
Tot Ion: 41 Resp: 2610
Ion Ratio Lower Upper
41 100
39 87.5 63.6 95.4
76 0.0 21.1 31.7#



#16
Acetone
Concen: 195.88 ug/l
RT: 3.14 min Scan# 164
Delta R.T. 0.01 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Tgt Ion: 43 Resp: 9973
Ion Ratio Lower Upper
43 100
58 19.1 18.1 27.1

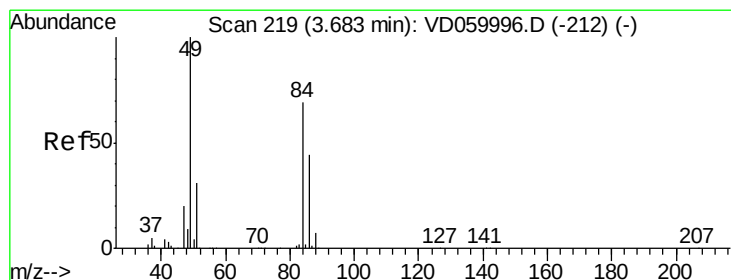
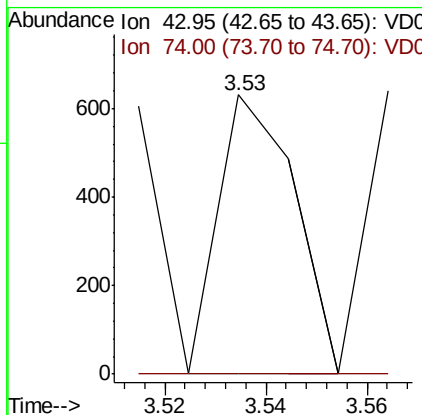
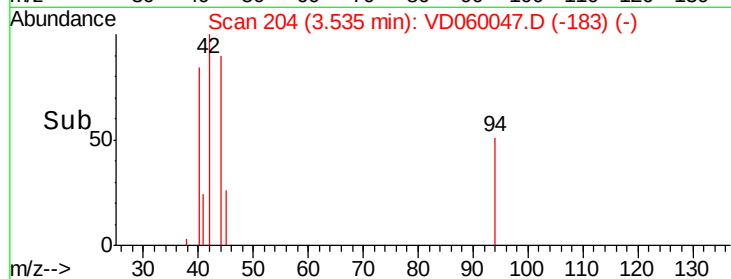
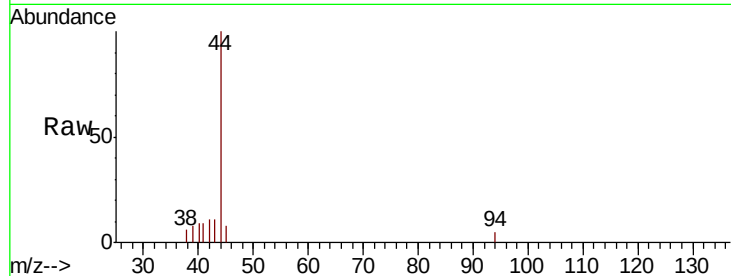




#18
Methyl Acetate
Concen: 6.36 ug/l
RT: 3.53 min Scan# 204
Delta R.T. 0.01 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

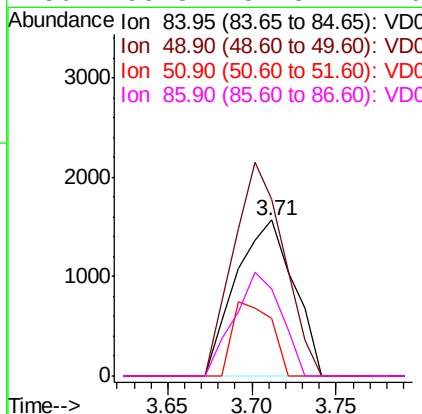
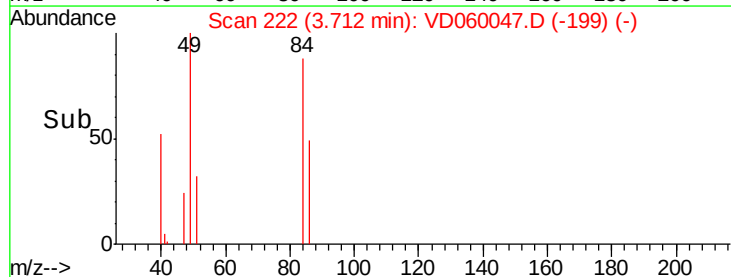
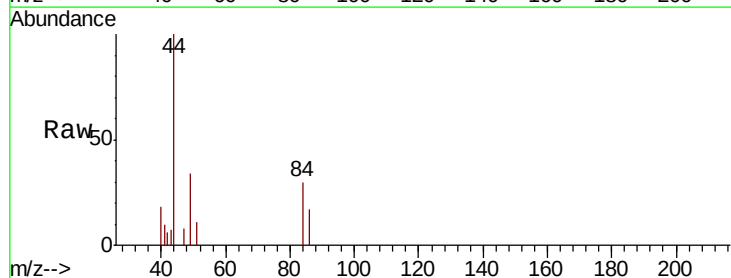
Instrument :
MSVOA_D
ClientSampled :

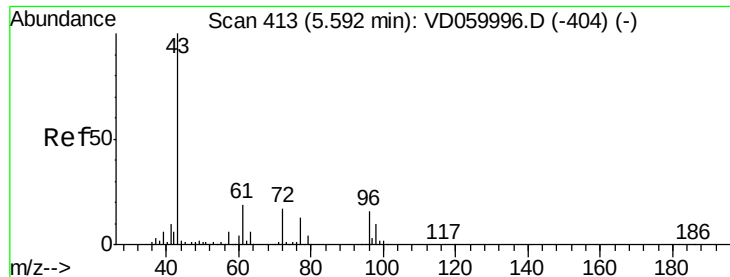
Tot Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#



#20
Methylene Chloride
Concen: 3.55 ug/l
RT: 3.71 min Scan# 222
Delta R.T. 0.03 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Tgt Ion: 84 Resp: 3713
Ion Ratio Lower Upper
84 100
49 113.7 116.6 175.0#
51 36.8 35.9 53.9
86 55.8 51.8 77.6





#25

2-Butanone

Concen: 11.86 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.03 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

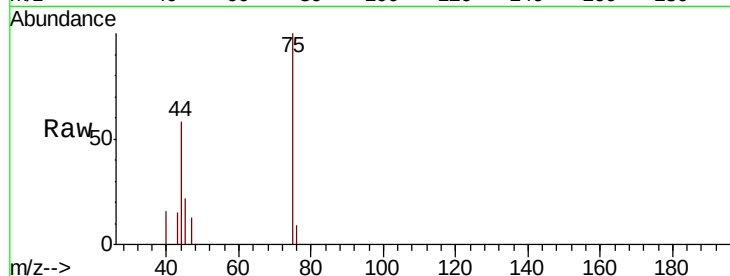
ClientSampleId :

Tot Ion: 43 Resp: 1629

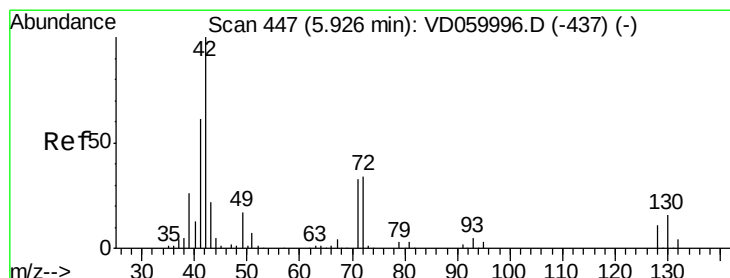
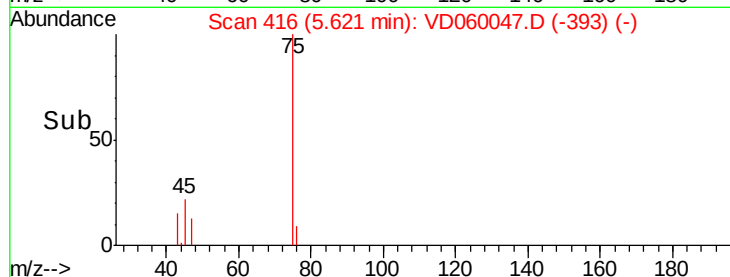
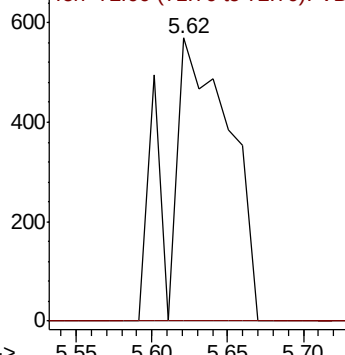
Ion Ratio Lower Upper

43 100

72 0.0 13.6 20.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#29

Tetrahydrofuran

Concen: 2.43 ug/l

RT: 5.69 min Scan# 423

Delta R.T. -0.24 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

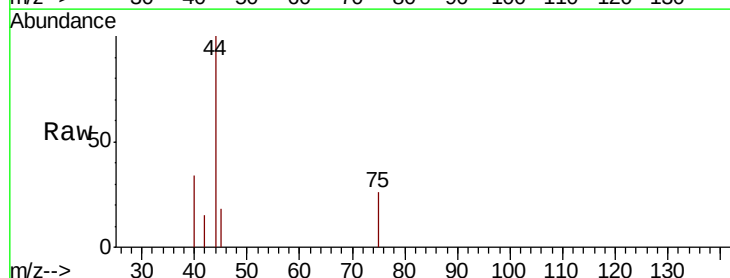
Tgt Ion: 42 Resp: 179

Ion Ratio Lower Upper

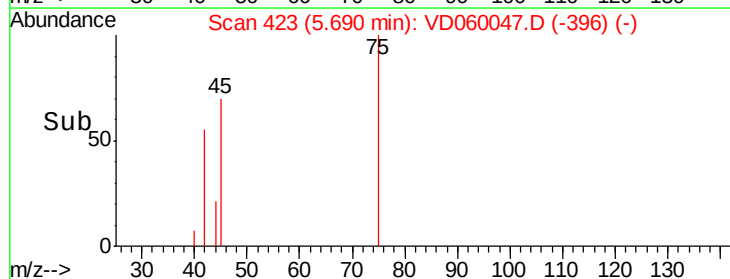
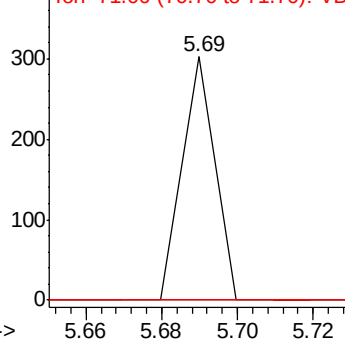
42 100

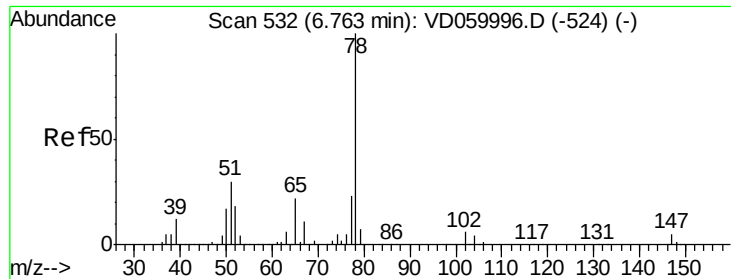
72 0.0 26.9 40.3#

71 0.0 26.2 39.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. 0.02 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

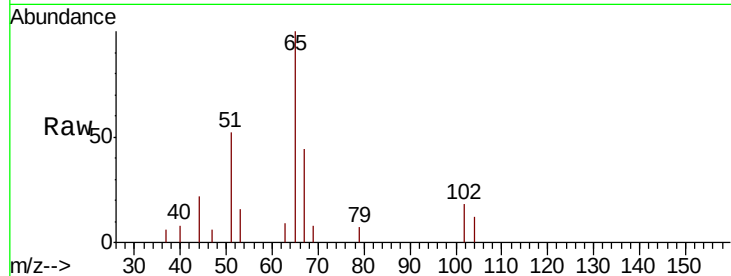
ClientSampleId :

Tot Ion: 65 Resp: 21968

Ion Ratio Lower Upper

65 100

67 44.2 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.78

10000

8000

6000

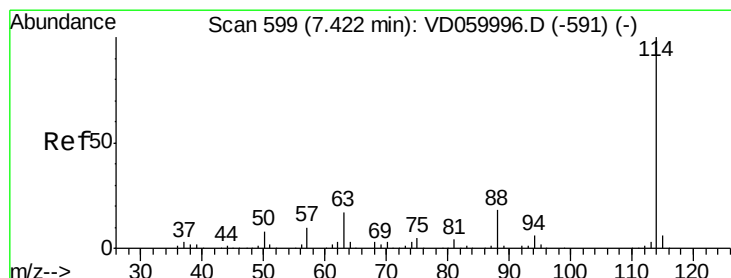
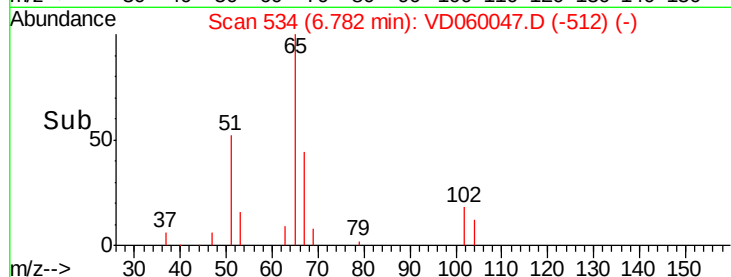
4000

2000

0

6.70 6.75 6.80 6.85

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 601

Delta R.T. 0.02 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

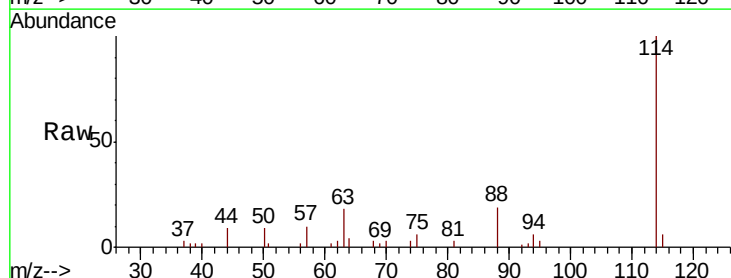
Tgt Ion: 114 Resp: 53185

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.4

88 19.5 0.0 35.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

30000

25000

20000

15000

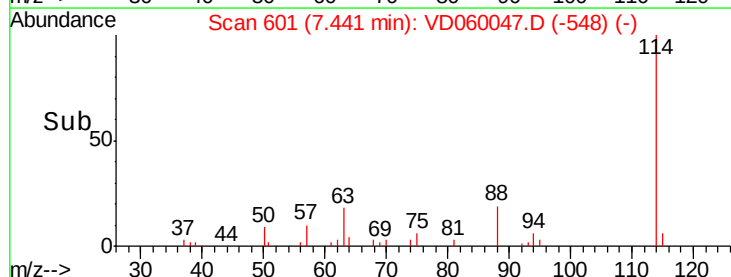
10000

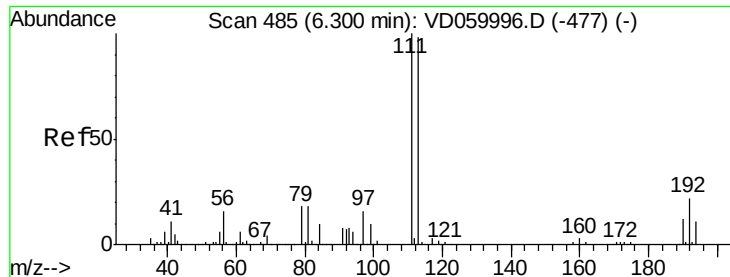
5000

0

7.40 7.45

Time-->





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.31 min Scan# 486

Delta R.T. 0.01 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

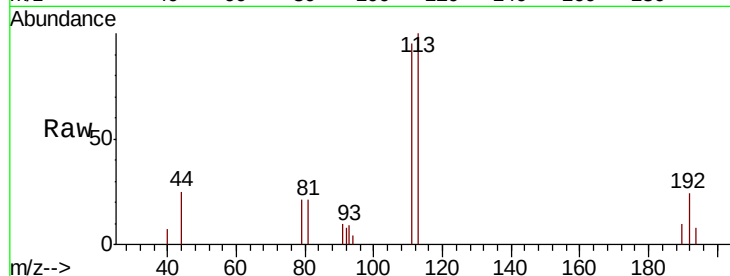
Tot Ion:113 Resp: 19526

Ion Ratio Lower Upper

113 100

111 94.9 81.3 121.9

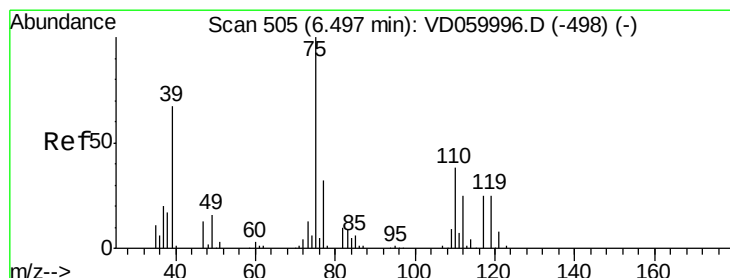
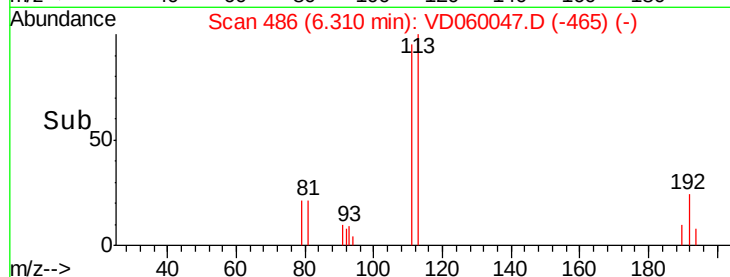
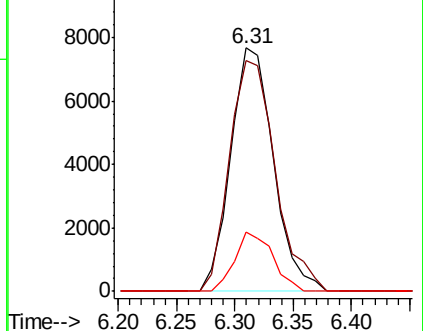
192 24.4 18.1 27.1



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: 3.81 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.10 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

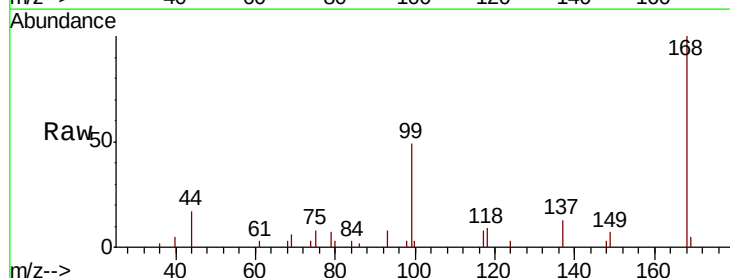
Tgt Ion: 75 Resp: 2011

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.9#

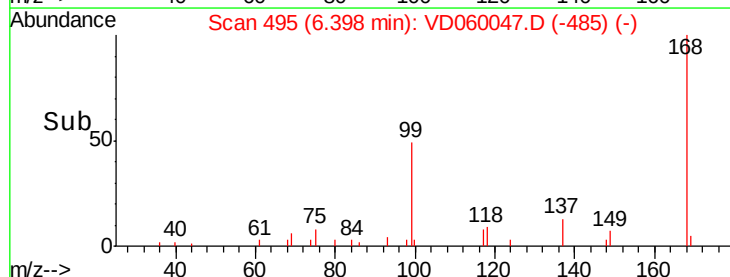
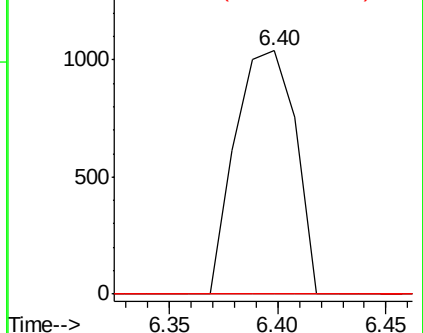
77 0.0 25.3 37.9#

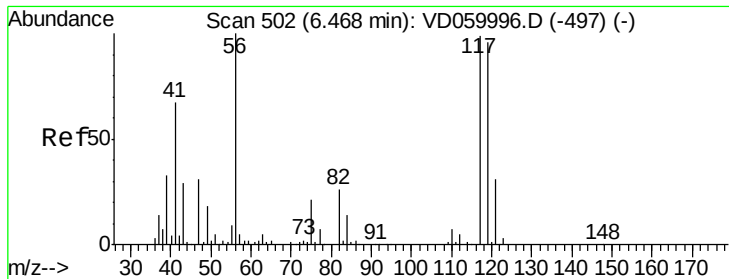


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 4.92 ug/l

RT: 6.40 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

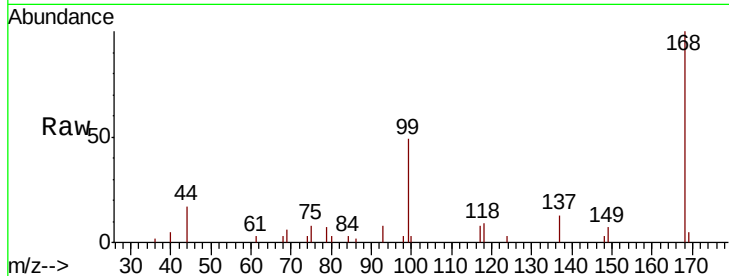
Tot Ion:117 Resp: 2428

Ion Ratio Lower Upper

117 100

119 0.0 76.7 115.1#

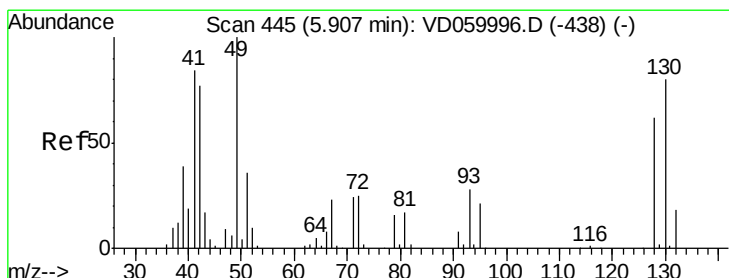
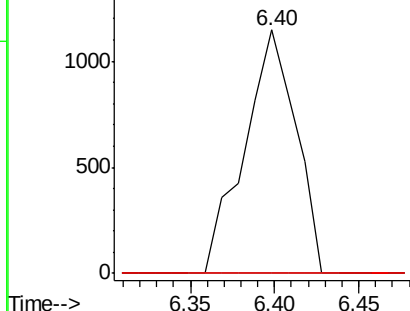
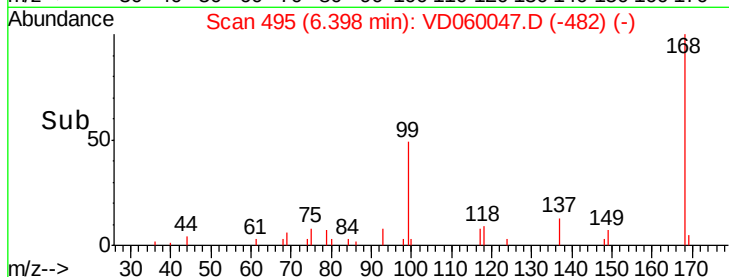
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.04 ug/l

RT: 5.96 min Scan# 450

Delta R.T. 0.05 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Tgt Ion: 41 Resp: 198

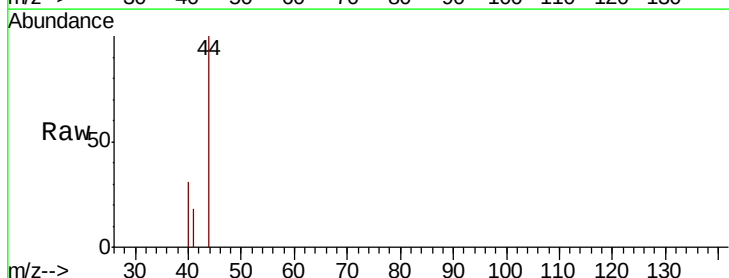
Ion Ratio Lower Upper

41 100

39 0.0 37.5 56.3#

67 0.0 21.5 32.3#

52 0.0 9.2 13.8#

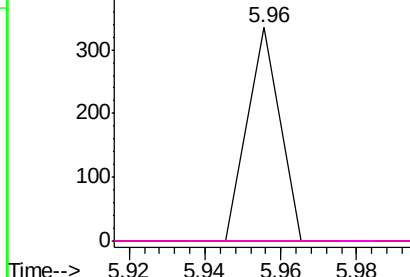
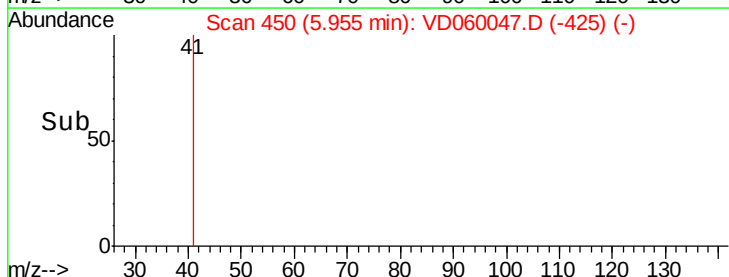


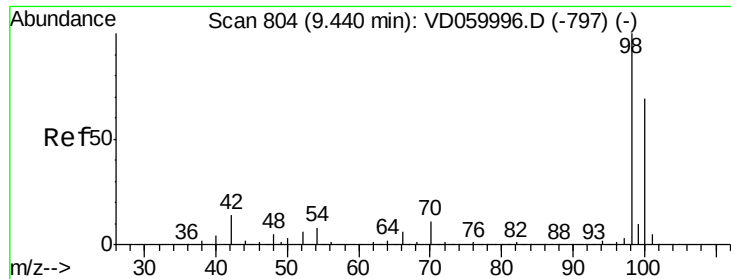
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

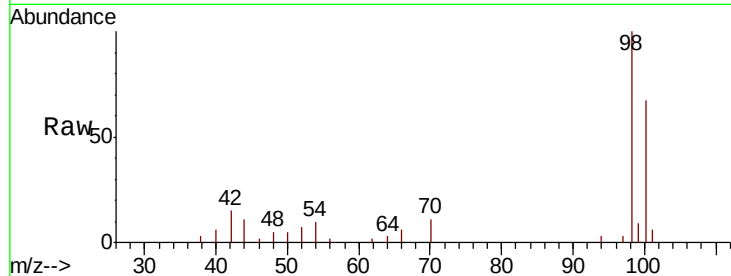




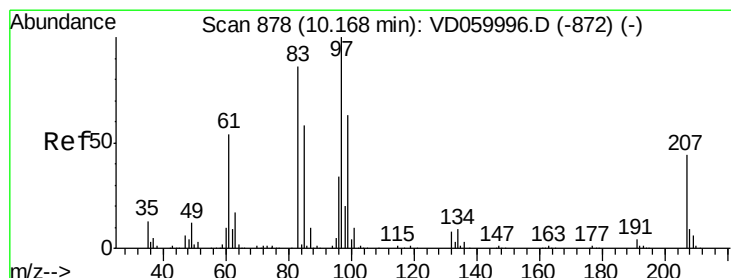
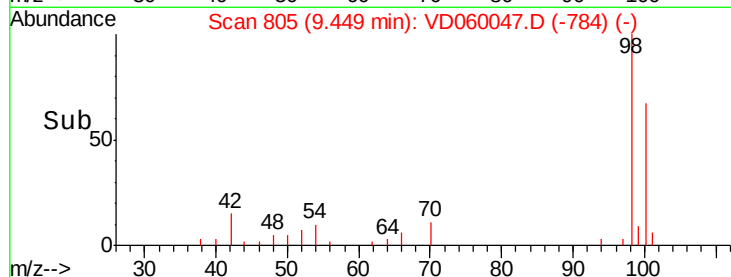
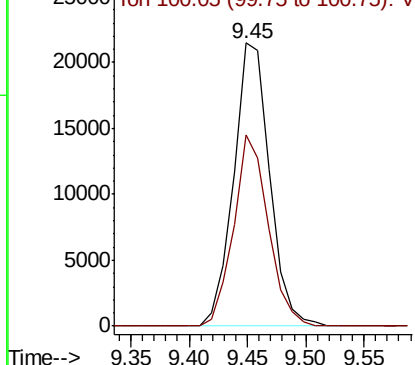
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 805
Delta R.T. 0.01 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 45946
Ion Ratio Lower Upper
98 100
100 67.3 55.8 83.6

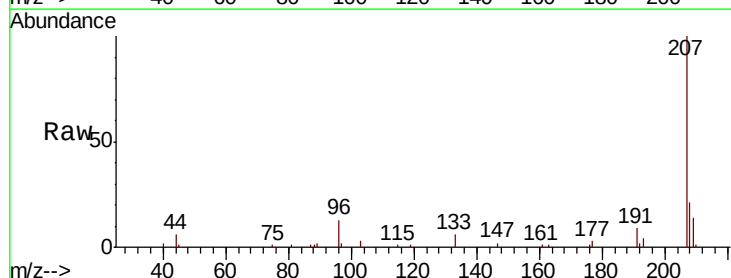


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

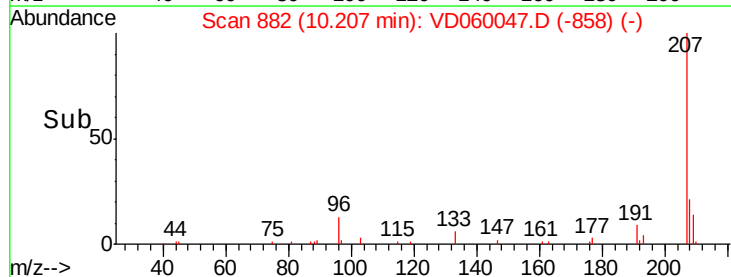
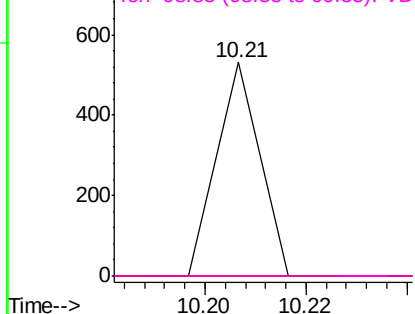


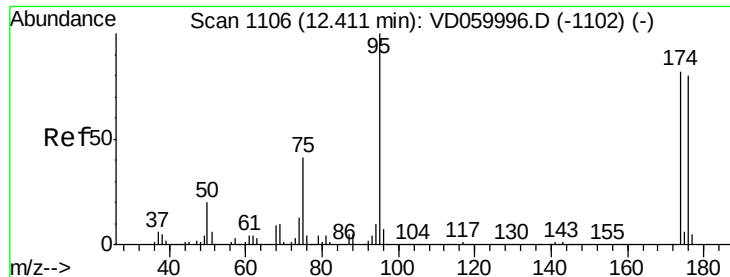
#55
1,1,2-Trichloroethane
Concen: 1.04 ug/l
RT: 10.21 min Scan# 882
Delta R.T. 0.04 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Tgt Ion: 97 Resp: 313
Ion Ratio Lower Upper
97 100
83 0.0 69.1 103.7#
85 0.0 46.2 69.4#
99 0.0 50.6 75.8#



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

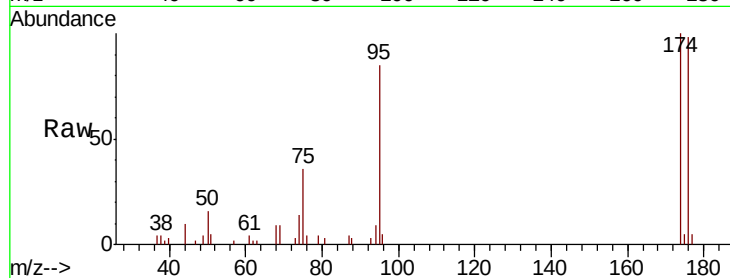
Tot Ion: 95 Resp: 22049

Ion Ratio Lower Upper

95 100

174 117.6 0.0 165.0

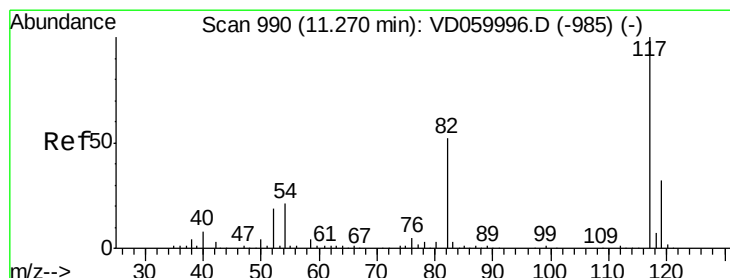
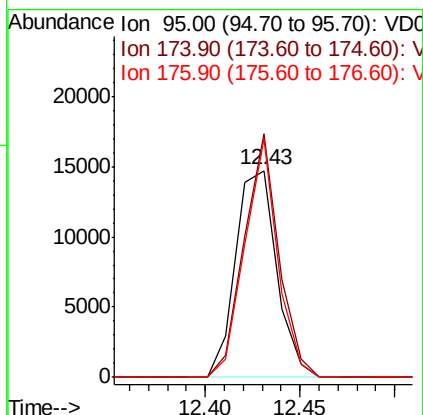
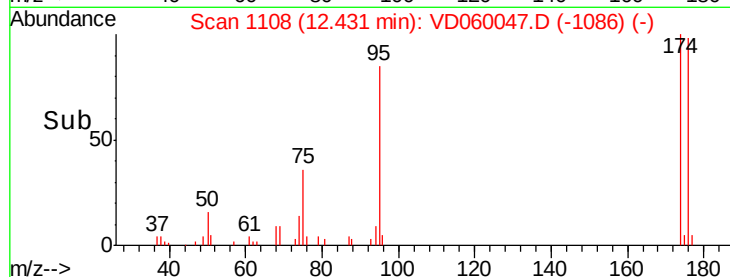
176 115.3 0.0 160.2



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: 11.28 min Scan# 991

Delta R.T. 0.01 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

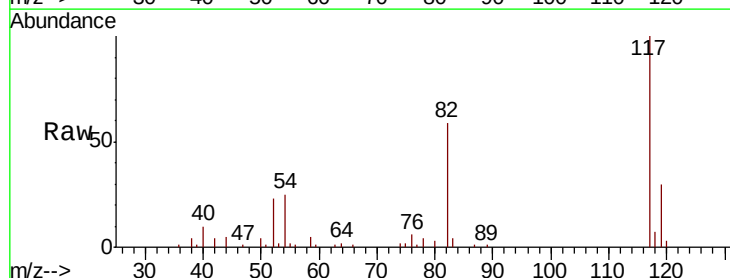
Tgt Ion: 117 Resp: 55316

Ion Ratio Lower Upper

117 100

82 59.4 41.7 62.5

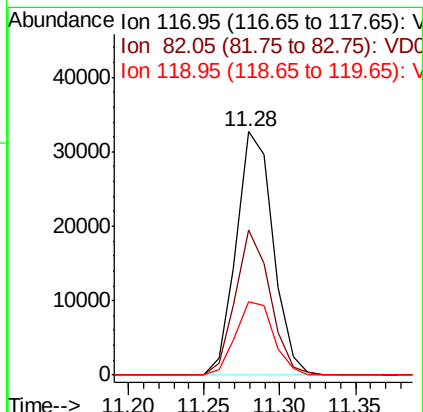
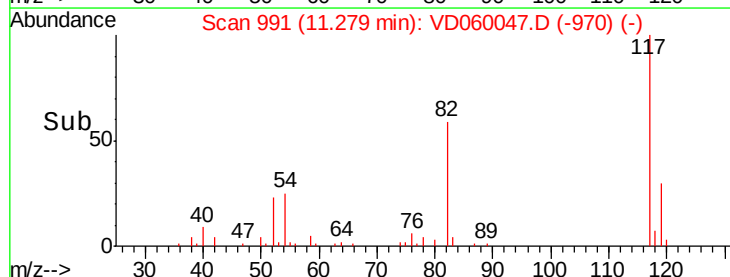
119 29.9 26.0 39.0

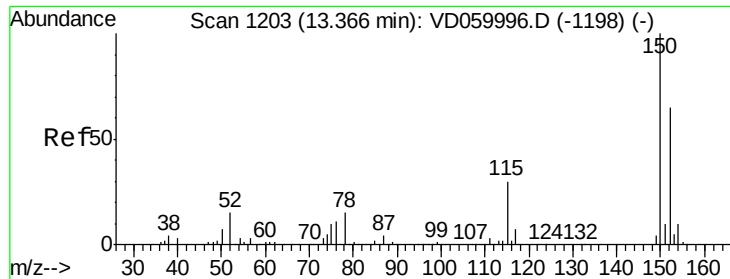


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.38 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060047.D

Acq: 19 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

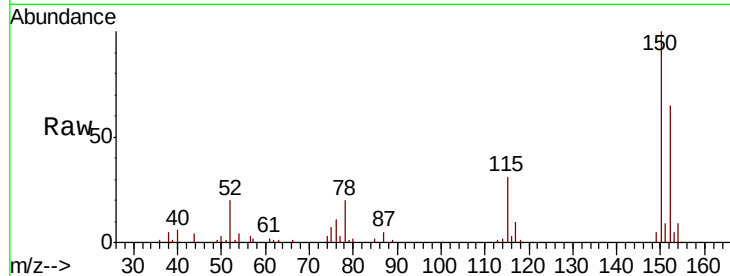
Tot Ion:152 Resp: 32704

Ion Ratio Lower Upper

152 100

115 47.9 24.6 73.8

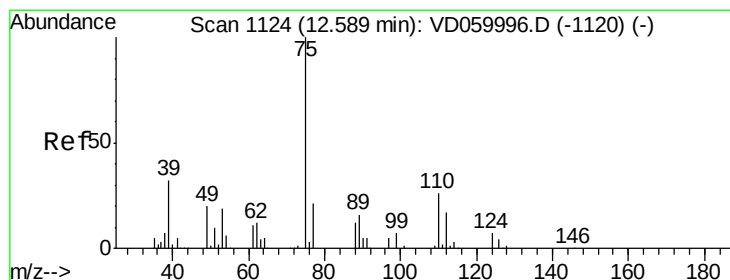
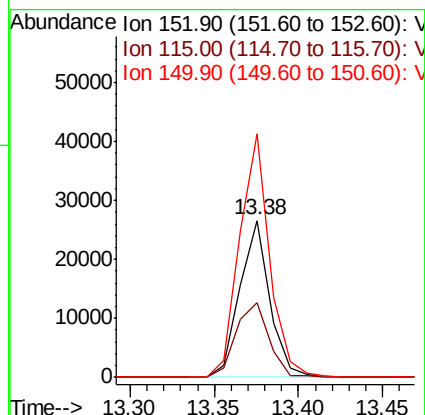
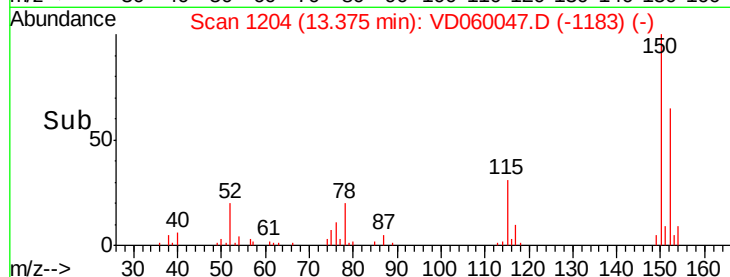
150 155.0 0.0 313.4



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



#76

1,2,3-Trichloropropane

Concen: 17.34 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.17 min

Lab File: VD060047.D

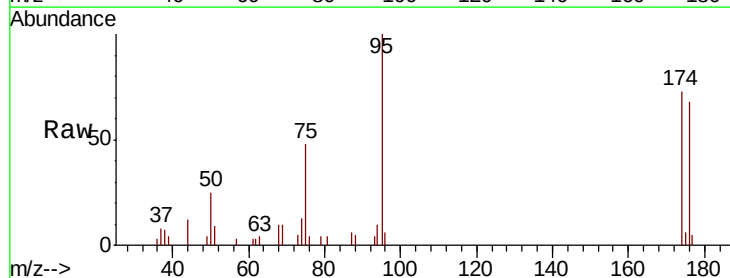
Acq: 19 Sep 2018 18:08

Tgt Ion: 75 Resp: 8659

Ion Ratio Lower Upper

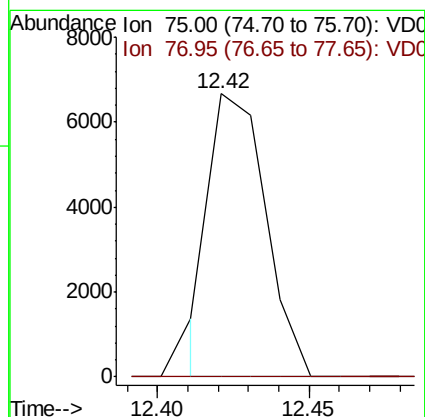
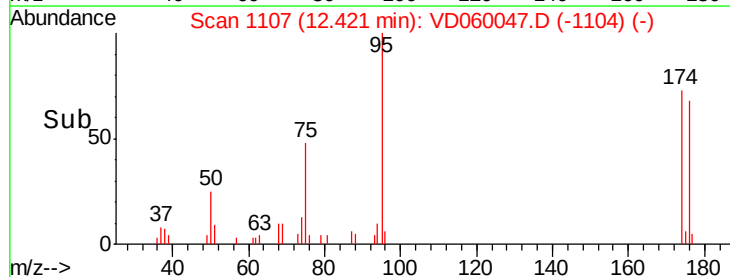
75 100

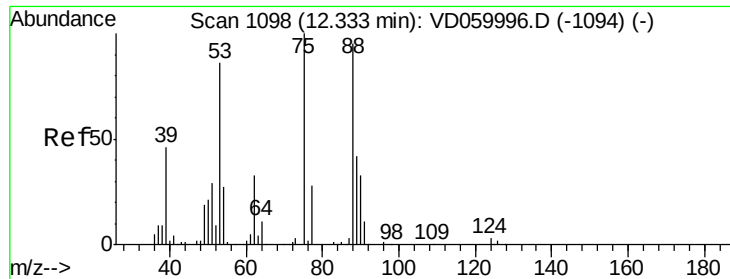
77 0.0 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V

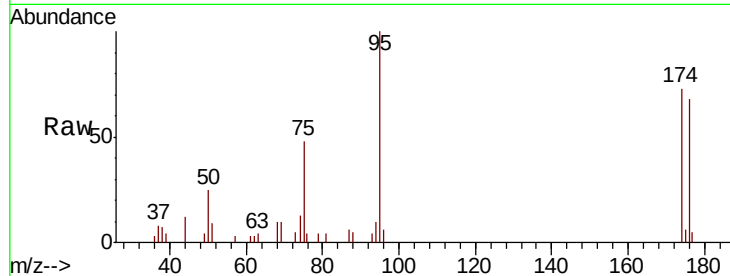




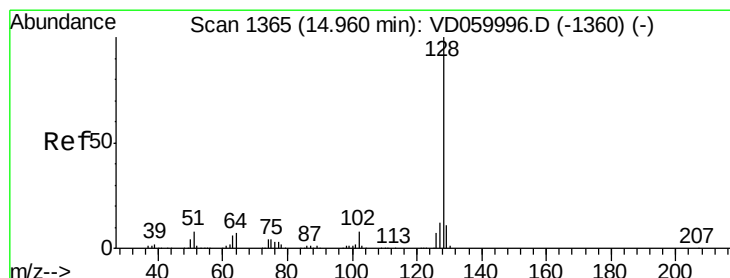
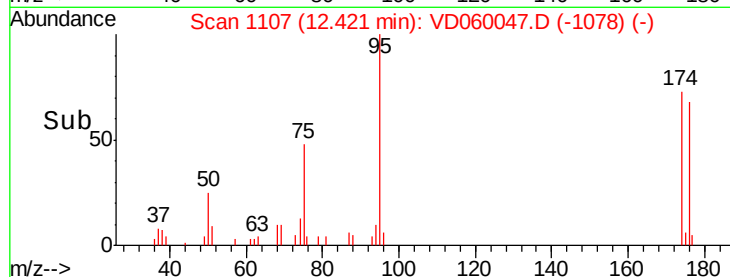
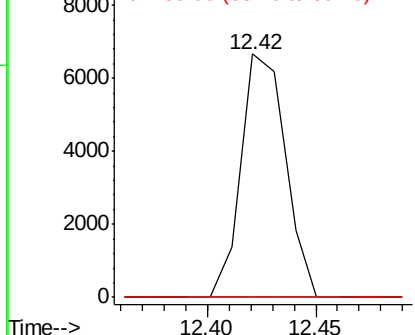
#81
trans-1,4-Dichloro-2-butene
Concen: 62.83 ug/l
RT: 12.42 min Scan# 1107
Delta R.T. 0.09 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 9473
Ion Ratio Lower Upper
75 100
53 0.0 68.4 102.6#
89 0.0 33.8 50.6#

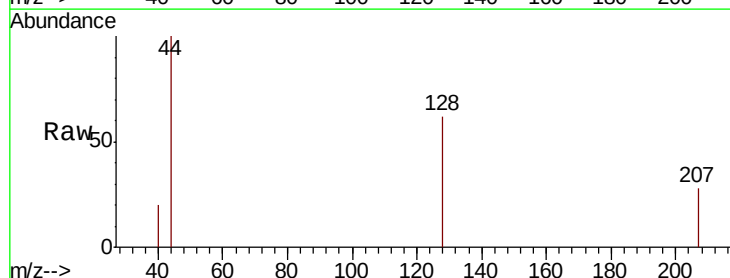


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#95
Naphthalene
Concen: 1.14 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060047.D
Acq: 19 Sep 2018 18:08

Tgt Ion: 128 Resp: 1344
Ion Ratio Lower Upper
128 100
127 0.0 9.7 14.5#
129 0.0 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

