

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062618\
 Data File : VD059429.D
 Acq On : 26 Jun 2018 17:48
 Operator : VA/AP
 Sample : J3676-01
 Misc : 4.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-1-4

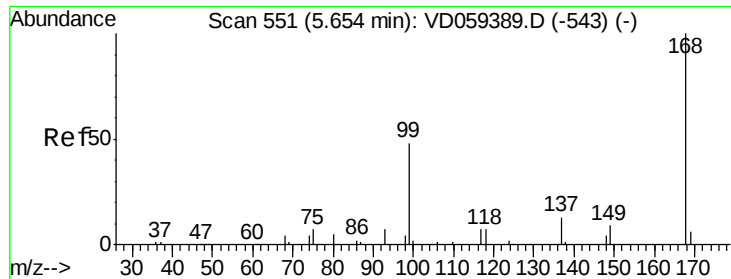
Quant Time: Jun 27 05:52:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1965	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.69	114	4253	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.68	117	3084	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	1650	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.00	65	3398	169.10	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	338.20%	
35) Dibromofluoromethane	5.52	113	1357	39.17	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	78.34%	
50) Toluene-d8	8.68	98	1768	21.83	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	43.66%	
62) 4-Bromofluorobenzene	11.92	95	1058	31.41	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	62.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.50	50	185	20.34	ug/l #	48
5) Bromomethane	1.83	94	271	85.98	ug/l #	4
13) Acrolein	2.45	56	242	389.39	ug/l #	16
14) Allyl chloride	2.79	41	235	15.86	ug/l #	11
16) Acetone	2.58	43	885	348.95	ug/l #	55
18) Methyl Acetate	2.85	43	490	86.53	ug/l #	66
20) Methylene Chloride	3.05	84	1300	191.91	ug/l #	58
25) 2-Butanone	4.94	43	199	37.46	ug/l #	57
27) cis-1,2-Dichloroethene	4.79	96	275	14.29	ug/l #	1
29) Tetrahydrofuran	5.58	42	184	63.32	ug/l #	37
37) Ethyl Acetate	4.94	43	199	8.47	ug/l #	69
44) Trichloroethene	6.96	130	531	17.52	ug/l	98
49) 1,4-Dioxane	7.10	88	186	1031.70	ug/l #	21
65) Chlorobenzene	10.71	112	190	3.37	ug/l #	44
67) Ethyl Benzene	10.85	91	181	1.90	ug/l #	47
81) trans-1,4-Dichloro-2-buten	11.93	75	959	185.39	ug/l #	1
87) 1,3-Dichlorobenzene	12.92	146	502	10.41	ug/l #	53
88) 1,4-Dichlorobenzene	12.92	146	502	10.55	ug/l #	49
91) 1,2-Dichlorobenzene	13.18	146	814	19.91	ug/l #	65
95) Naphthalene	14.50	128	744	14.13	ug/l #	71

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD059429.D

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Instrument :

MSVOA_D

ClientSampleId :

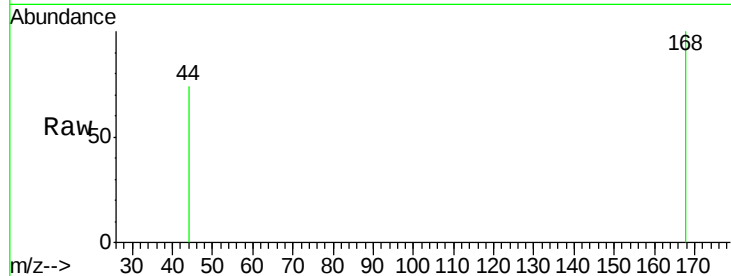
RO-1-4

Tot Ion:168 Resp: 1965

Ion Ratio Lower Upper

168 100

99 0.0 41.0 61.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

800

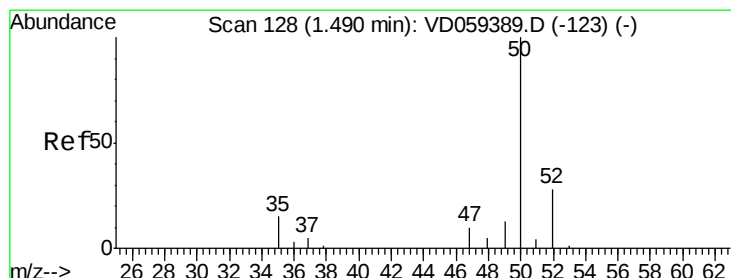
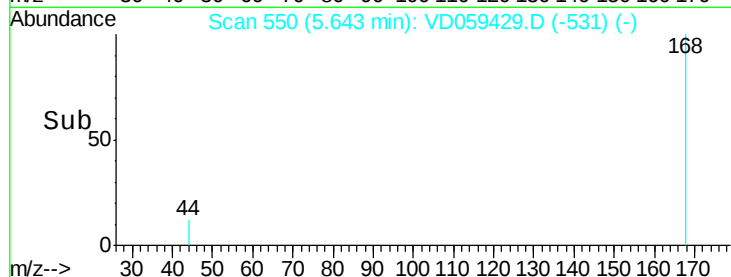
600

400

200

0

Time--> 5.55 5.60 5.65 5.70



#3

Chloromethane

Concen: 20.34 ug/l

RT: 1.50 min Scan# 129

Delta R.T. 0.01 min

Lab File: VD059429.D

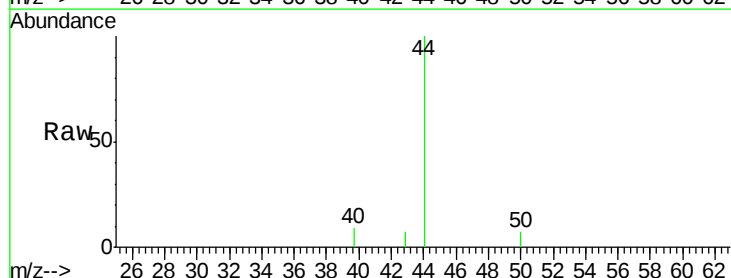
Acq: 26 Jun 2018 17:48

Tgt Ion: 50 Resp: 185

Ion Ratio Lower Upper

50 100

52 0.0 21.8 32.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.50

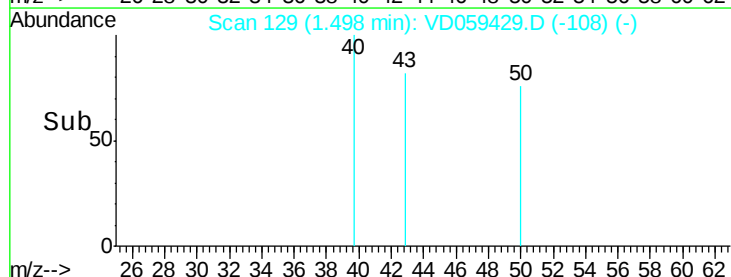
300

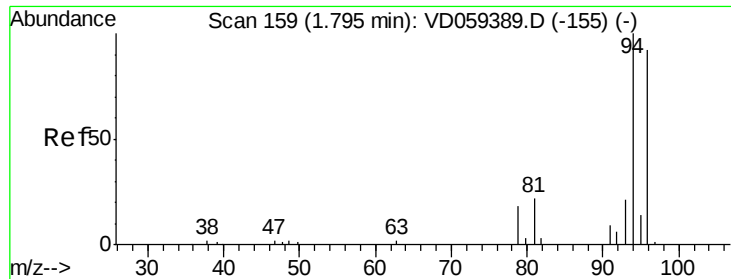
200

100

0

Time--> 1.46 1.48 1.50 1.52

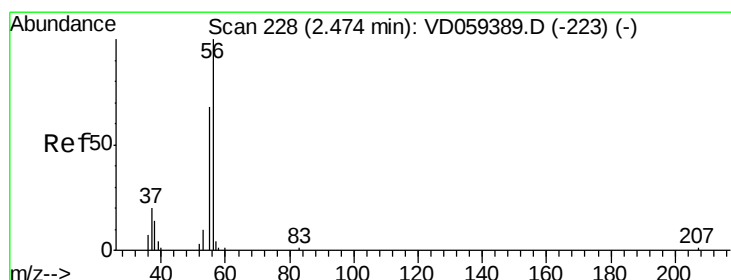
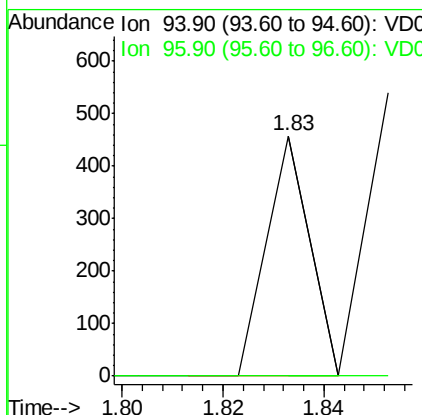
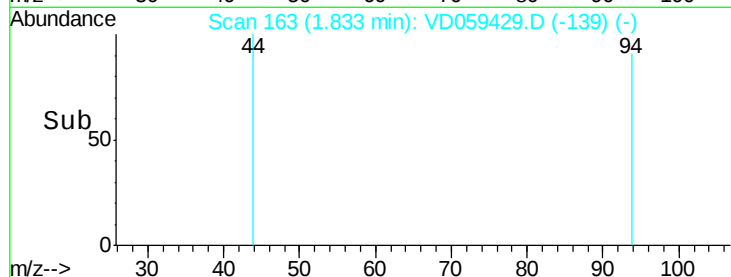
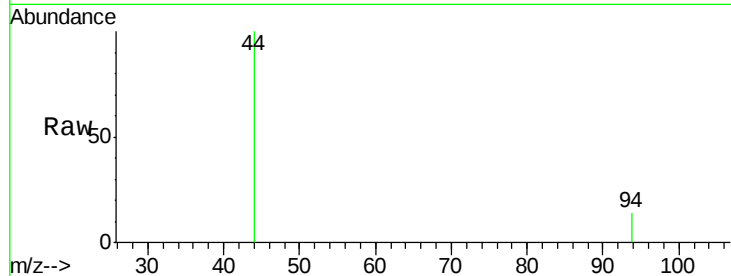




#5
Bromomethane
Concen: 85.98 ug/l
RT: 1.83 min Scan# 163
Delta R.T. 0.04 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

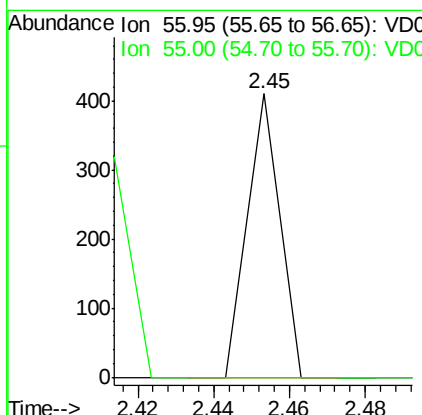
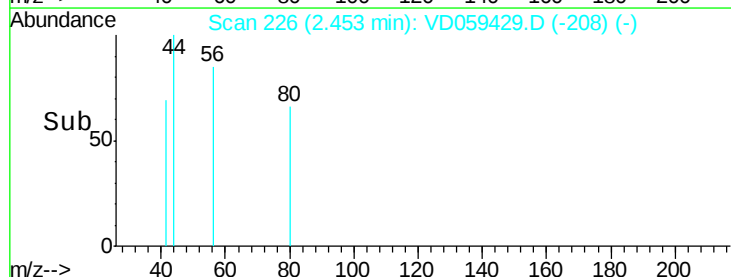
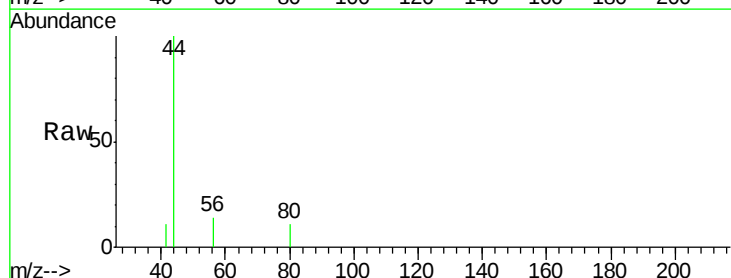
Instrument :
MSVOA_D
ClientSampled :
RO-1-4

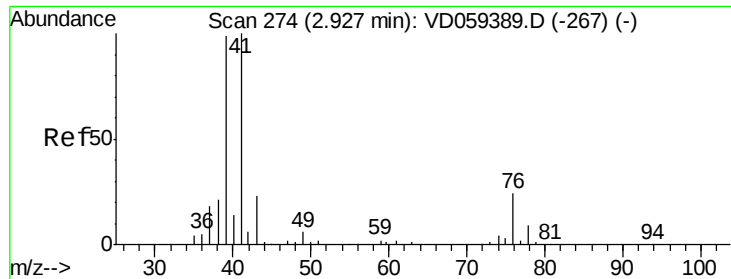
Tot Ion: 94 Resp: 271
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.0#



#13
Acrolein
Concen: 389.39 ug/l
RT: 2.45 min Scan# 226
Delta R.T. -0.02 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

Tgt Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 0.0 54.6 82.0#

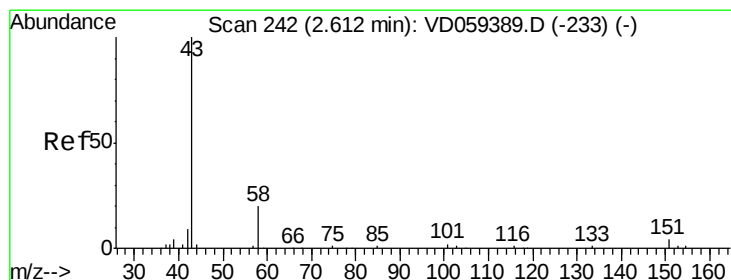
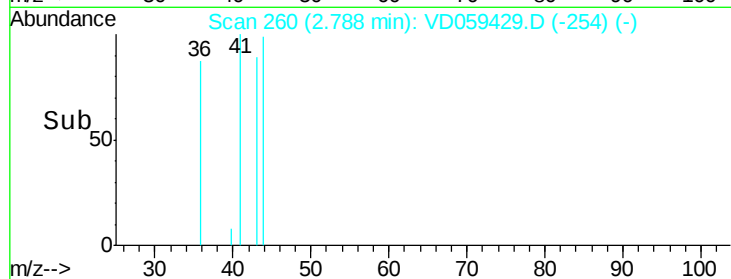
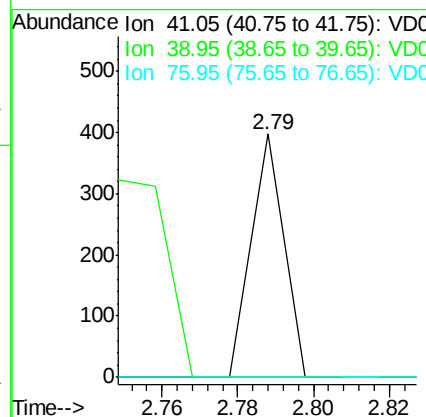
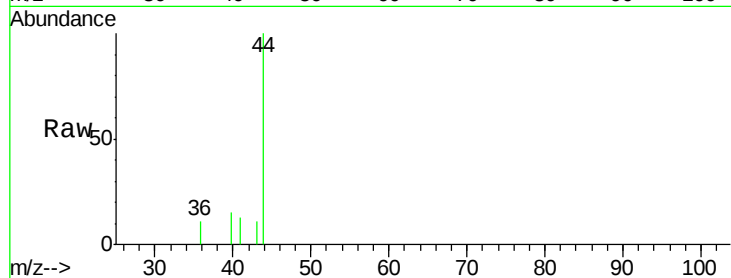




#14
Allvl chloride
Concen: 15.86 ug/l
RT: 2.79 min Scan# 260
Delta R.T. -0.14 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

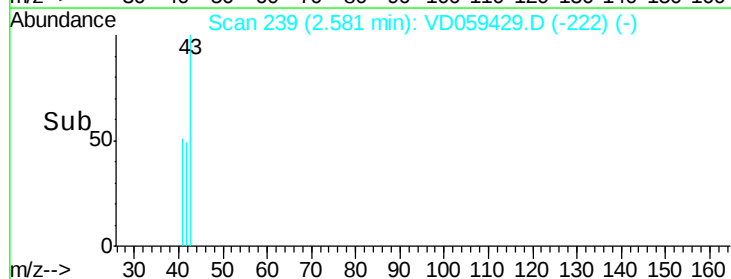
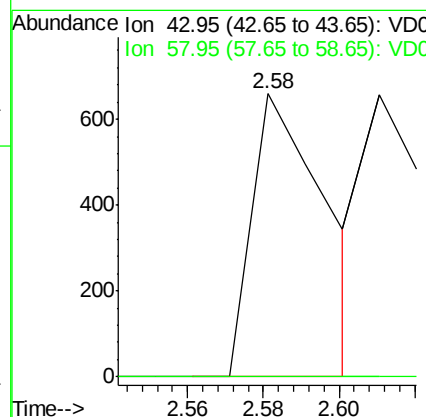
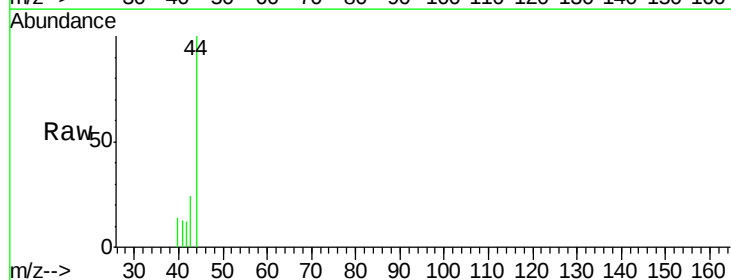
Instrument :
MSVOA_D
ClientSampleId :
RO-1-4

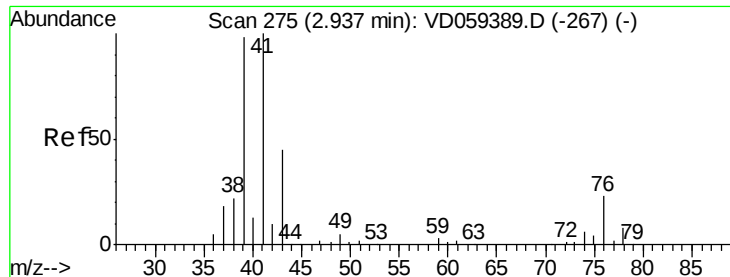
Tot Ion: 41 Resp: 235
Ion Ratio Lower Upper
41 100
39 0.0 79.1 118.7#
76 0.0 21.9 32.9#



#16
Acetone
Concen: 348.95 ug/l
RT: 2.58 min Scan# 239
Delta R.T. -0.03 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

Tgt Ion: 43 Resp: 885
Ion Ratio Lower Upper
43 100
58 0.0 16.8 25.2#





#18

Methyl Acetate

Concen: 86.53 ug/l

RT: 2.85 min Scan# 266

Delta R.T. -0.09 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

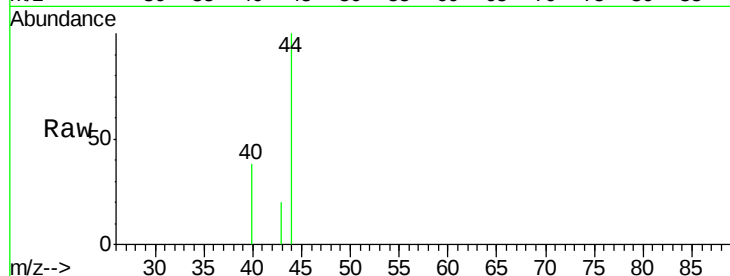
RO-1-4

Tot Ion: 43 Resp: 490

Ion Ratio Lower Upper

43 100

74 0.0 11.0 16.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.85

400

300

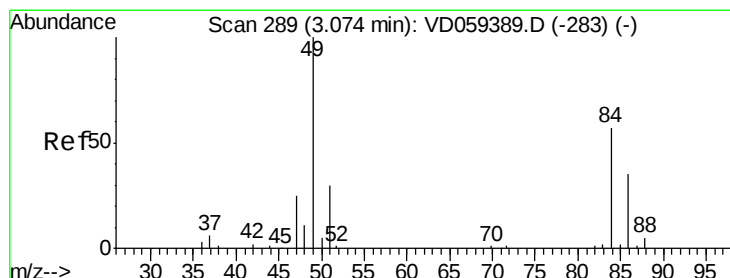
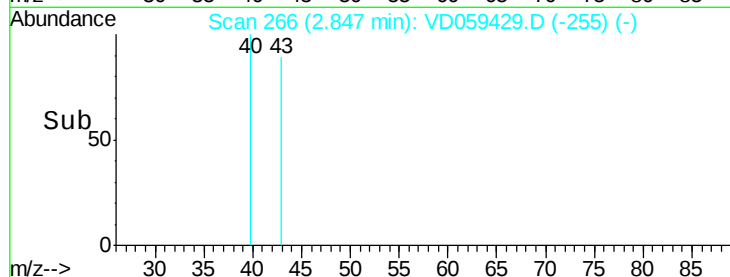
200

100

0

2.82 2.84 2.86 2.88 2.90

Time-->



#20

Methylene Chloride

Concen: 191.91 ug/l

RT: 3.05 min Scan# 287

Delta R.T. -0.02 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Tgt Ion: 84 Resp: 1300

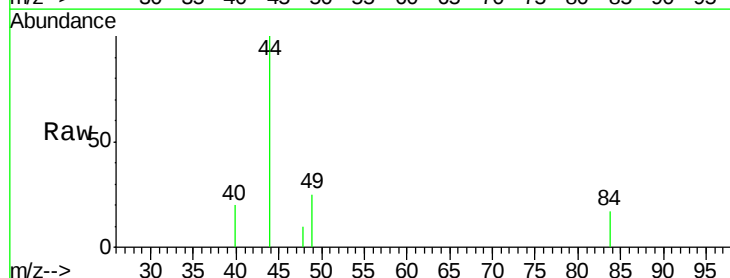
Ion Ratio Lower Upper

84 100

49 149.5 140.3 210.5

51 0.0 41.6 62.4#

86 0.0 49.4 74.2#



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

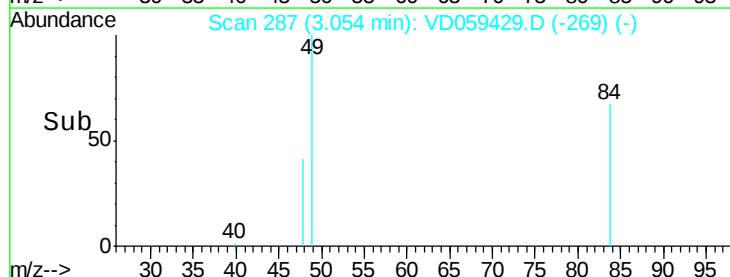
1000

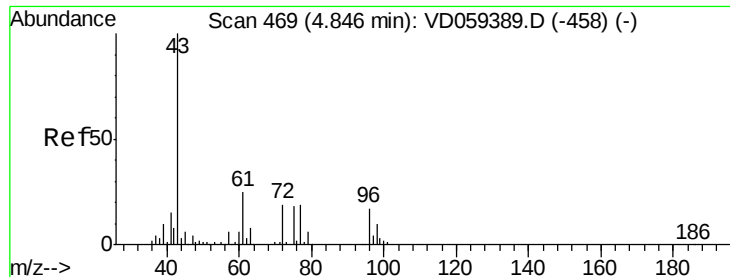
500

0

3.00 3.05 3.10

Time-->





#25

2-Butanone

Concen: 37.46 ug/l

RT: 4.94 min Scan# 479

Delta R.T. 0.10 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

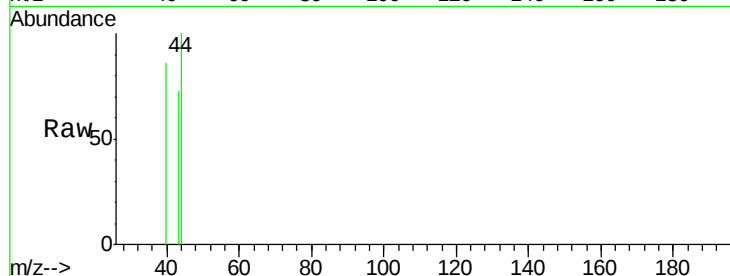
RO-1-4

Tot Ion: 43 Resp: 199

Ion Ratio Lower Upper

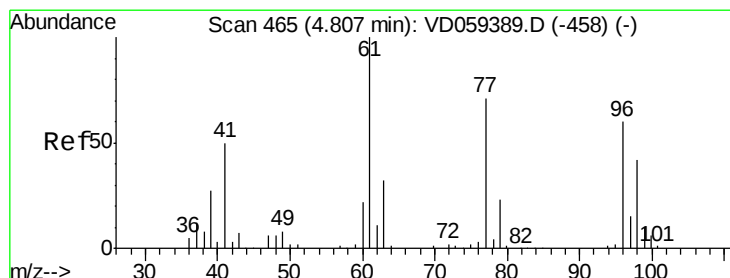
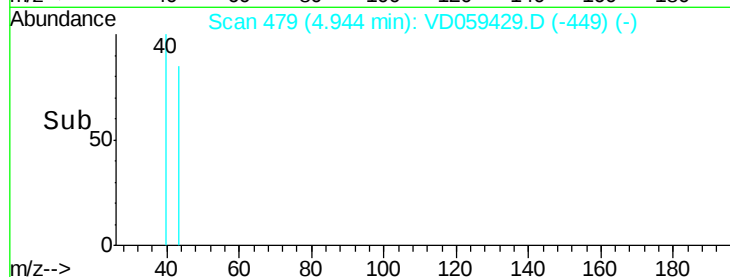
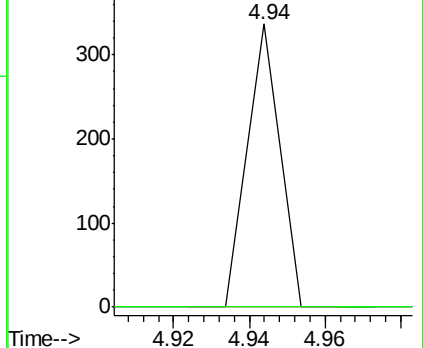
43 100

72 0.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#27

cis-1,2-Dichloroethene

Concen: 14.29 ug/l

RT: 4.79 min Scan# 463

Delta R.T. -0.02 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

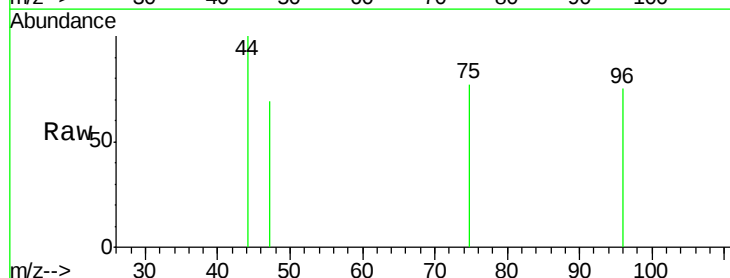
Tgt Ion: 96 Resp: 275

Ion Ratio Lower Upper

96 100

61 0.0 0.0 335.8

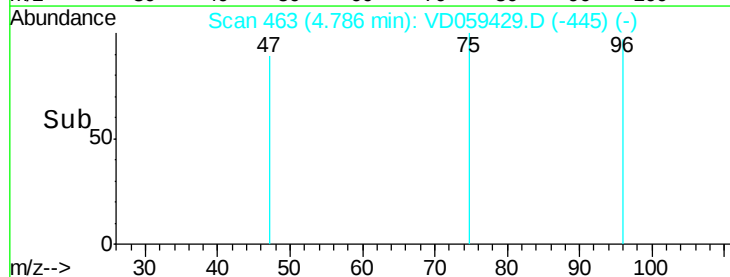
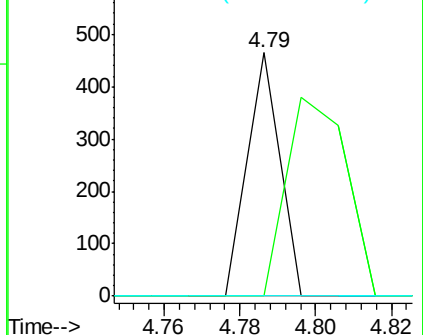
98 0.0 0.0 141.0

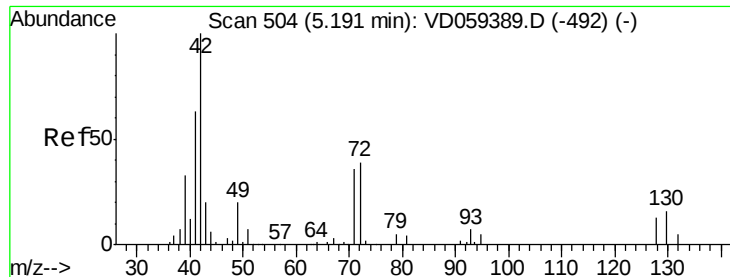


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#29

Tetrahydrofuran

Concen: 63.32 ug/l

RT: 5.58 min Scan# 544

Delta R.T. 0.39 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

RO-1-4

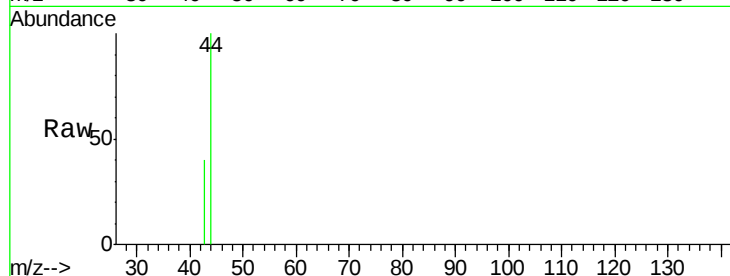
Tot Ion: 42 Resp: 184

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

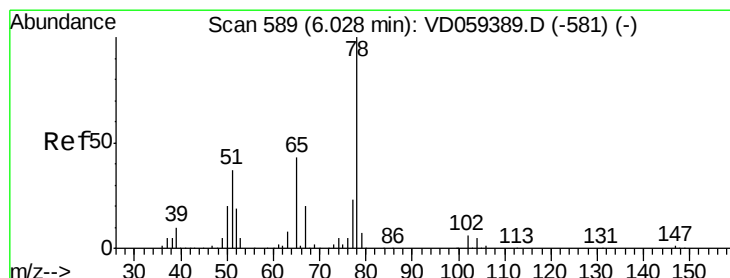
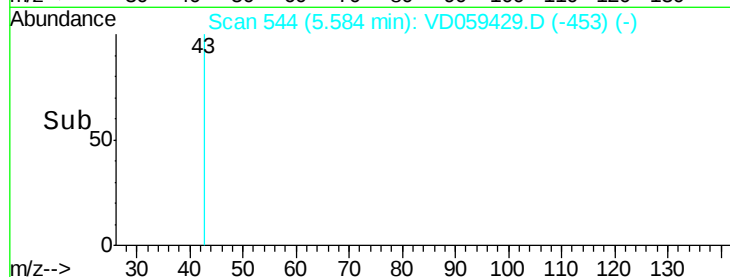
71 0.0 29.7 44.5#



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

5.58

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.00 min Scan# 586

Delta R.T. -0.03 min

Lab File: VD059429.D

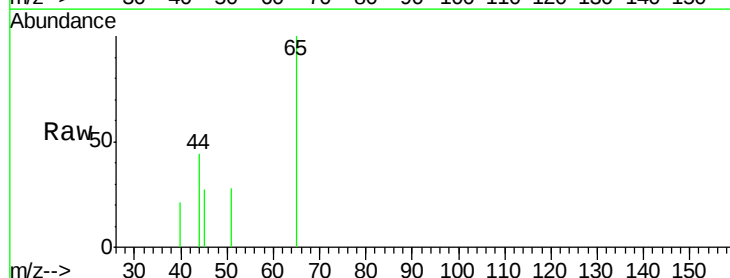
Acq: 26 Jun 2018 17:48

Tgt Ion: 65 Resp: 3398

Ion Ratio Lower Upper

65 100

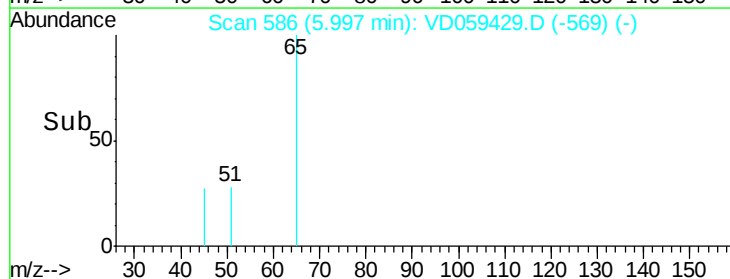
67 0.0 0.0 93.8

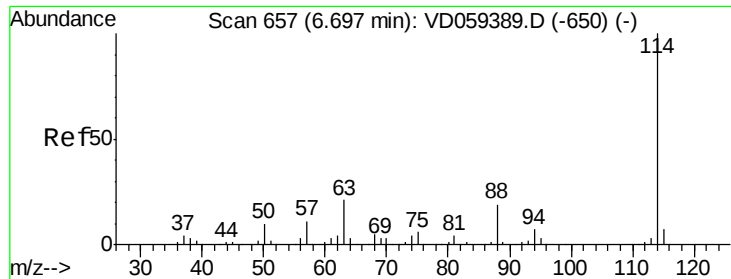


Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

6.00

Time-->

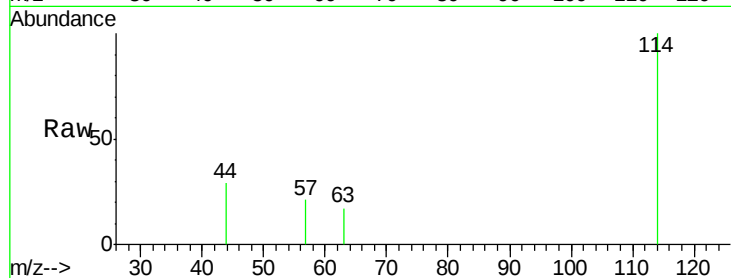




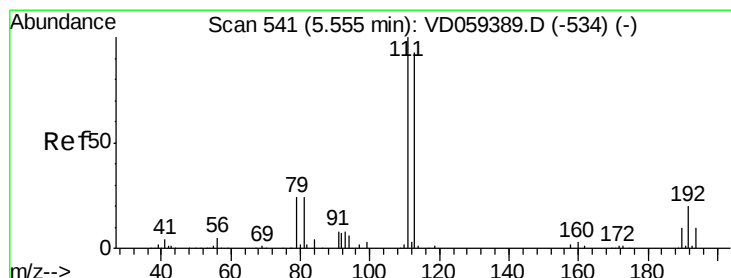
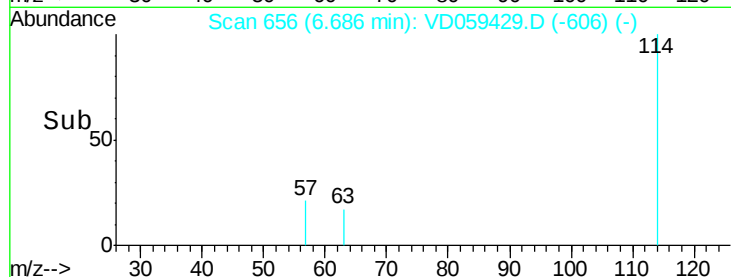
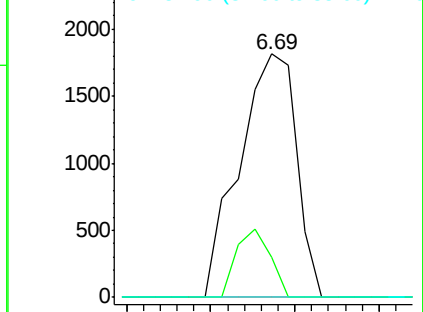
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: VD059429.D
 Acq: 26 Jun 2018 17:48

Instrument :
 MSVOA_D
 ClientSampleId :
 RO-1-4

Tot Ion:114 Resp: 4253
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 42.4
 88 0.0 0.0 38.0

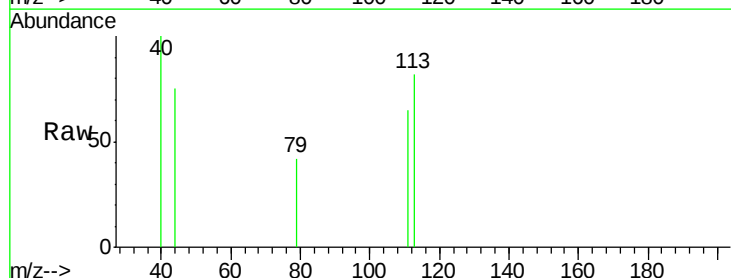


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

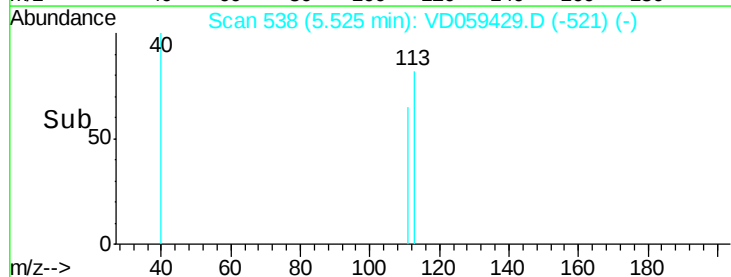
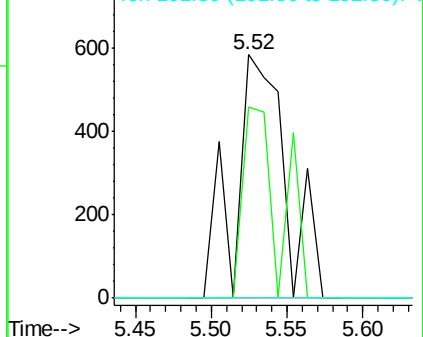


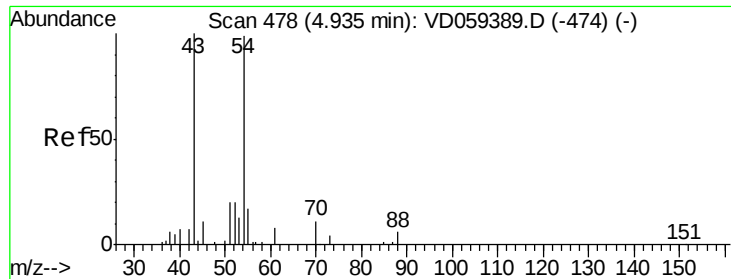
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.52 min Scan# 538
 Delta R.T. -0.03 min
 Lab File: VD059429.D
 Acq: 26 Jun 2018 17:48

Tgt Ion:113 Resp: 1357
 Ion Ratio Lower Upper
 113 100
 111 78.5 85.7 128.5#
 192 0.0 16.9 25.3#



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

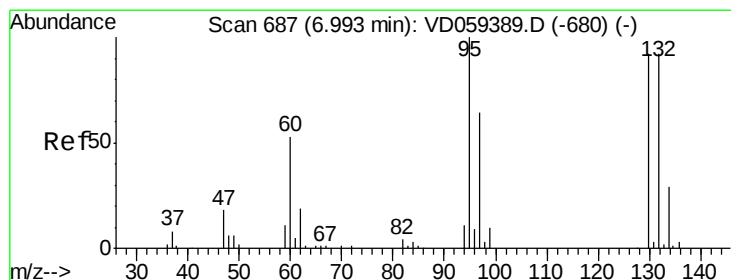
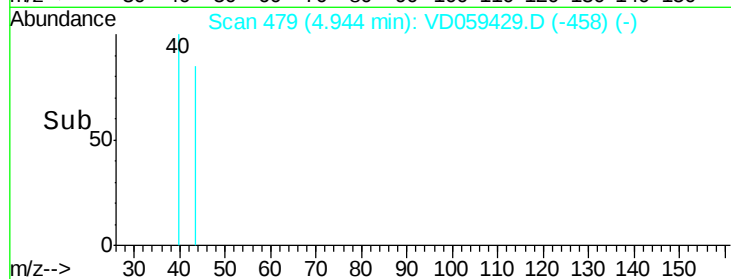
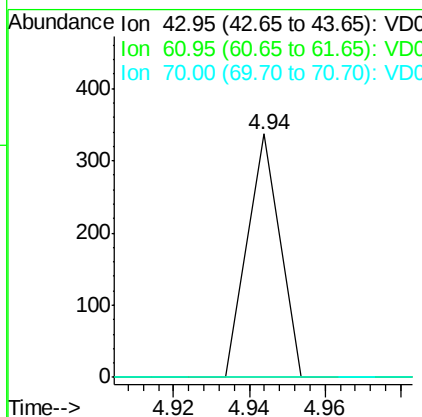
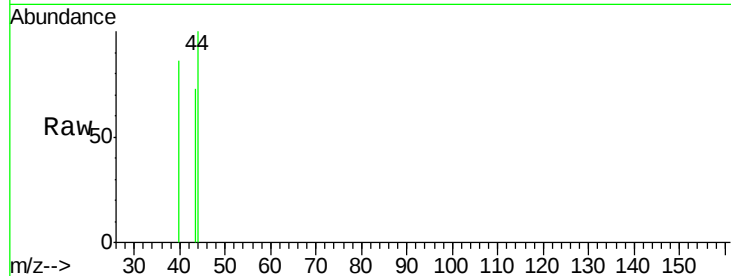




#37
Ethyl Acetate
Concen: 8.47 ug/l
RT: 4.94 min Scan# 479
Delta R.T. 0.01 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

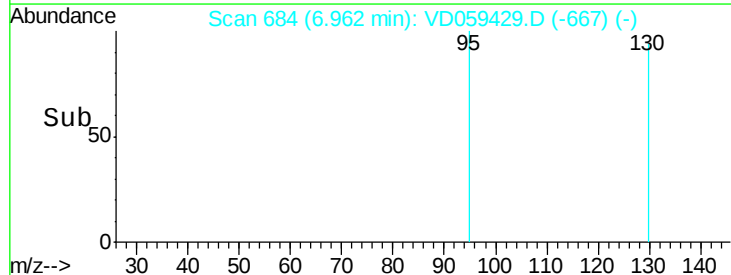
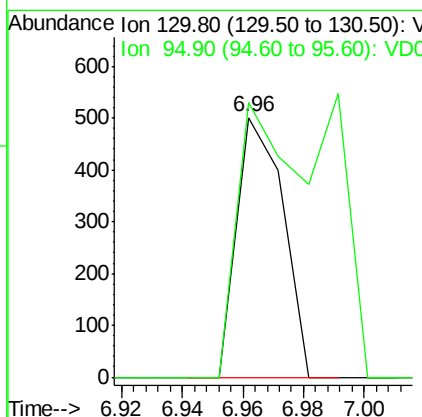
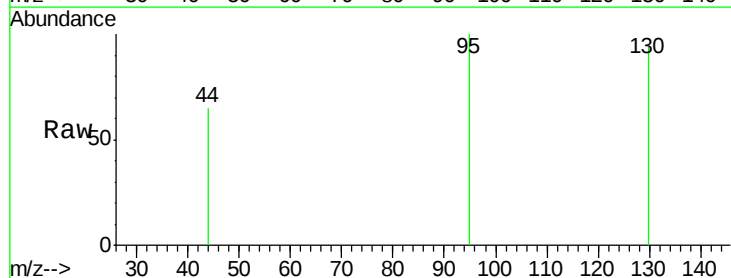
Instrument :
MSVOA_D
ClientSampleId :
RO-1-4

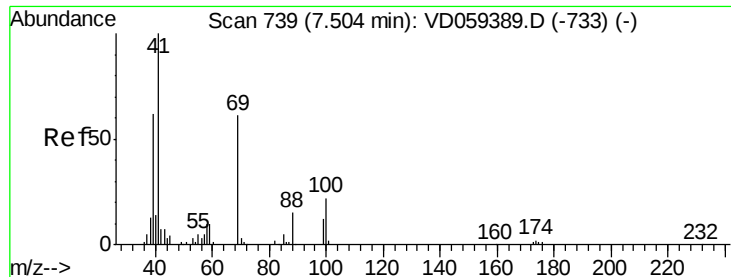
Tot Ion: 43 Resp: 199
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 6.1 9.1#



#44
Trichloroethene
Concen: 17.52 ug/l
RT: 6.96 min Scan# 684
Delta R.T. -0.03 min
Lab File: VD059429.D
Acq: 26 Jun 2018 17:48

Tgt Ion: 130 Resp: 531
Ion Ratio Lower Upper
130 100
95 106.0 0.0 216.4





#49

1,4-Dioxane

Concen: 1031.70 ug/l

RT: 7.10 min Scan# 698

Delta R.T. -0.40 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

RO-1-4

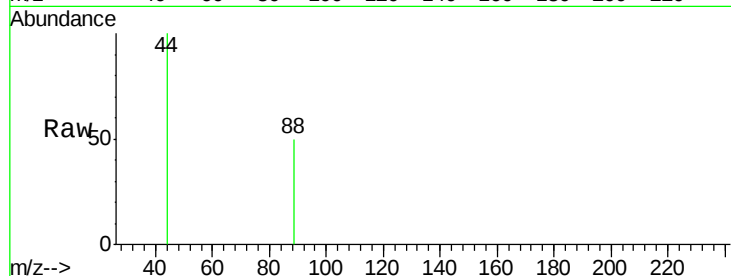
Tot Ion: 88 Resp: 186

Ion Ratio Lower Upper

88 100

43 0.0 41.0 61.4#

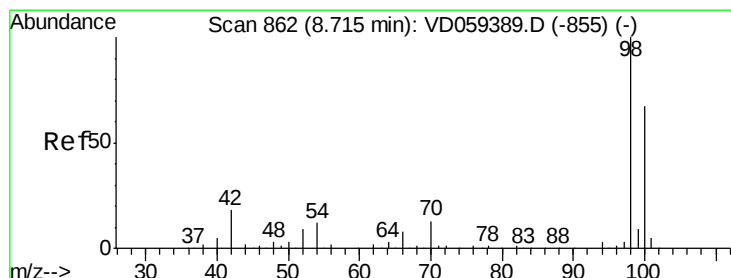
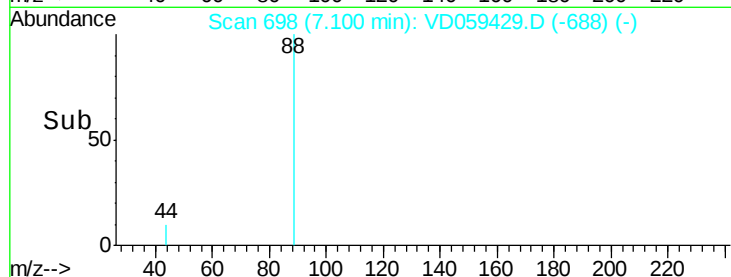
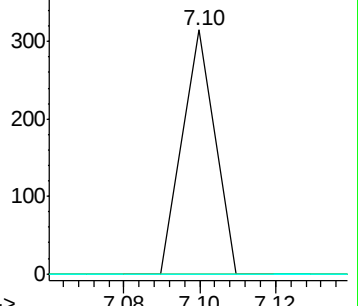
58 0.0 53.4 80.0#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 1031.70 ug/l

RT: 8.68 min Scan# 859

Delta R.T. -0.03 min

Lab File: VD059429.D

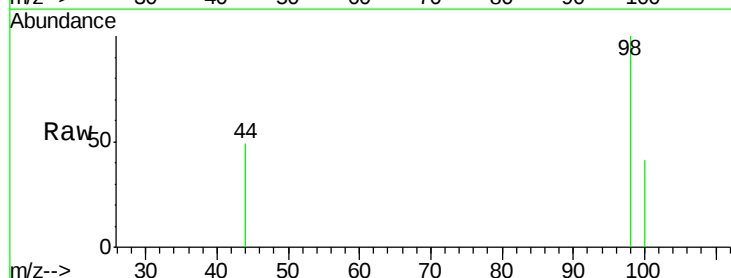
Acq: 26 Jun 2018 17:48

Tgt Ion: 98 Resp: 1768

Ion Ratio Lower Upper

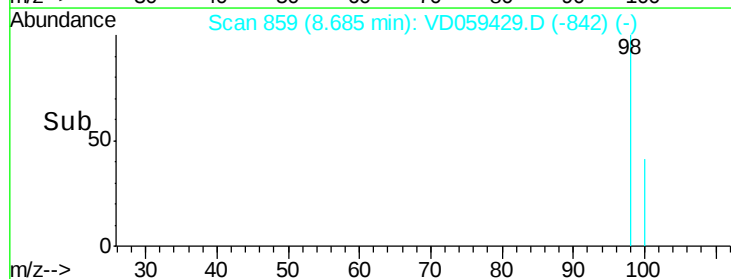
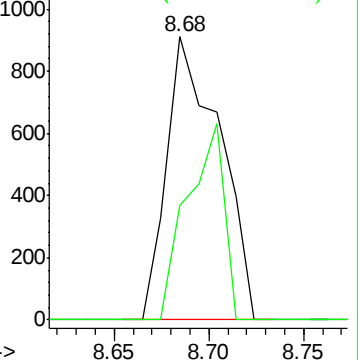
98 100

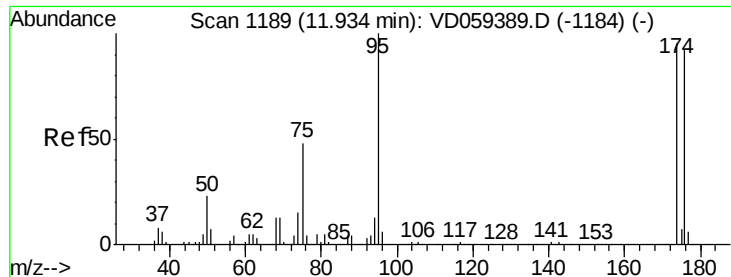
100 40.6 54.4 81.6#



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.92 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

RO-1-4

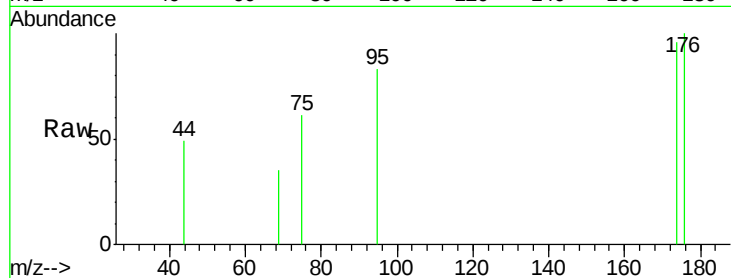
Tot Ion: 95 Resp: 1058

Ion Ratio Lower Upper

95 100

174 115.7 0.0 190.4

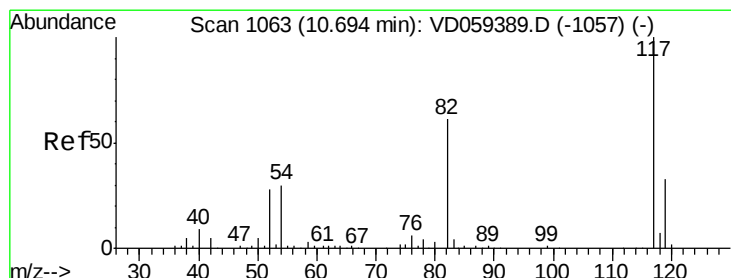
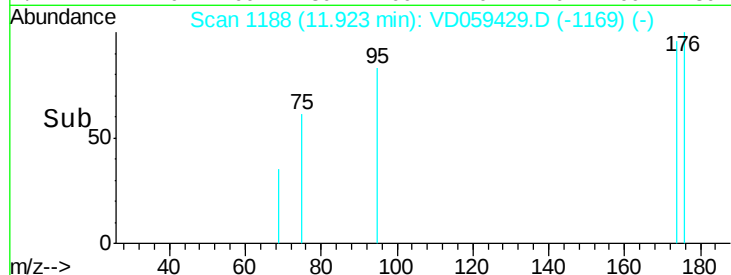
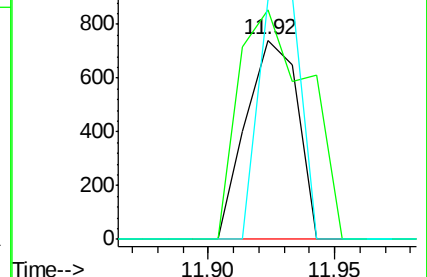
176 120.5 0.0 183.2



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: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

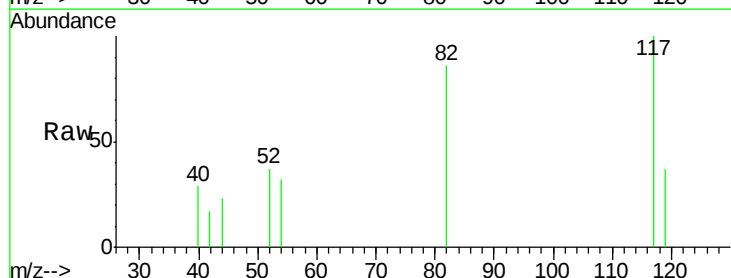
Tgt Ion: 117 Resp: 3084

Ion Ratio Lower Upper

117 100

82 86.1 49.0 73.6#

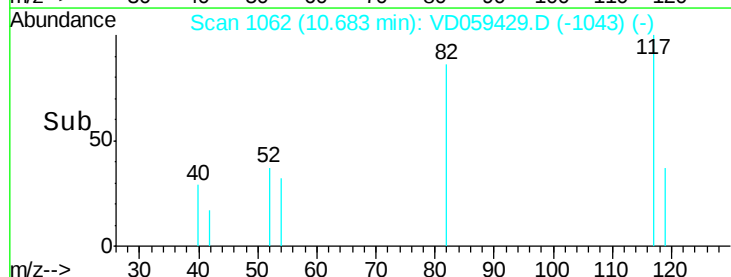
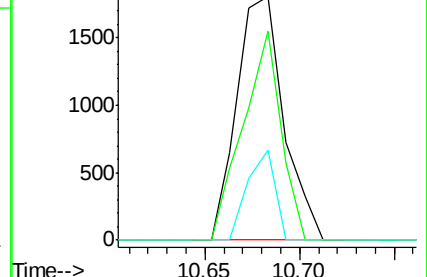
119 36.8 26.2 39.4

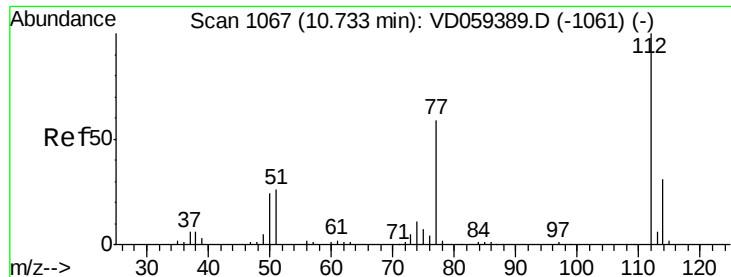


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#65

Chlorobenzene

Concen: 3.37 ug/l

RT: 10.71 min Scan# 1065

Delta R.T. -0.02 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

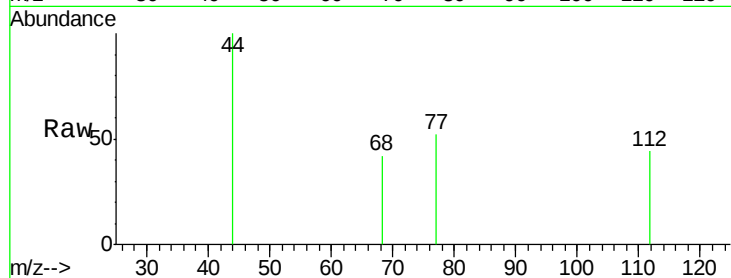
RO-1-4

Tot Ion:112 Resp: 190

Ion Ratio Lower Upper

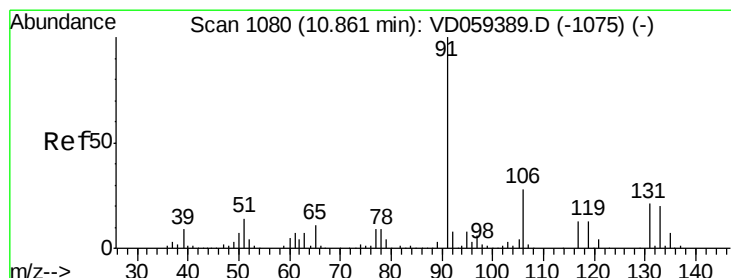
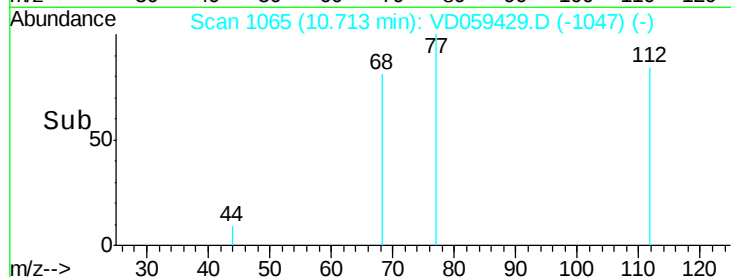
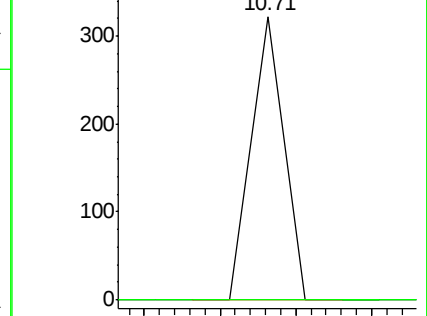
112 100

114 0.0 24.6 37.0#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#67

Ethyl Benzene

Concen: 1.90 ug/l

RT: 10.85 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VD059429.D

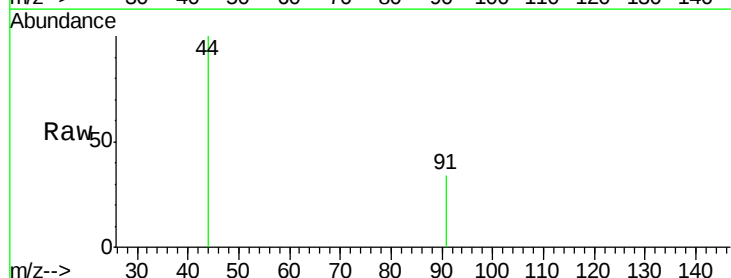
Acq: 26 Jun 2018 17:48

Tgt Ion: 91 Resp: 181

Ion Ratio Lower Upper

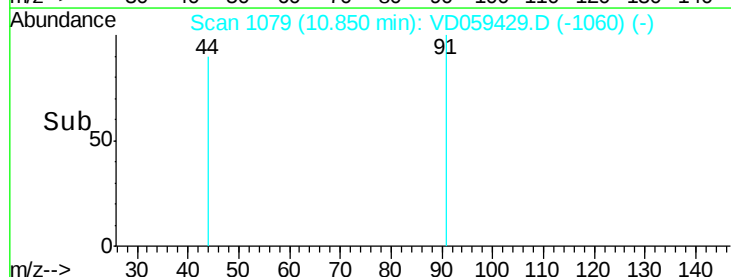
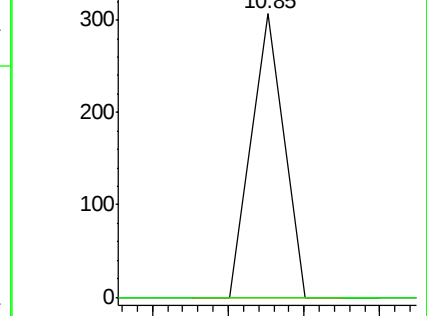
91 100

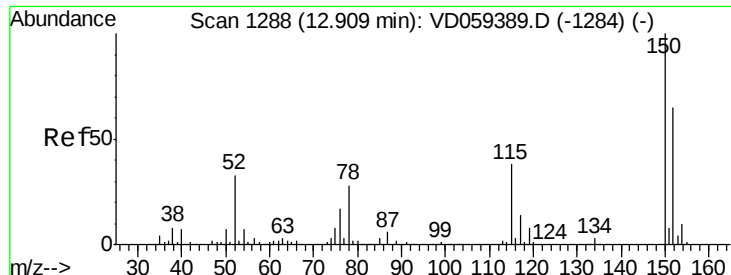
106 0.0 22.3 33.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.90 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

RO-1-4

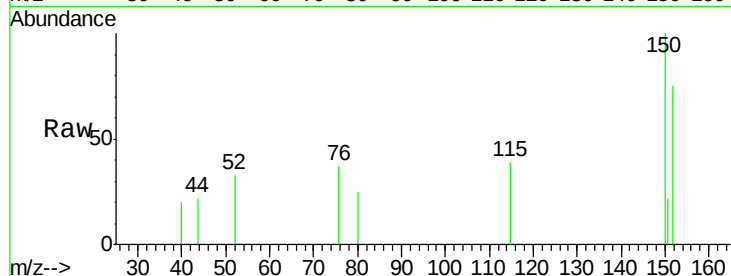
Tot Ion:152 Resp: 1650

Ion Ratio Lower Upper

152 100

115 52.1 29.4 88.3

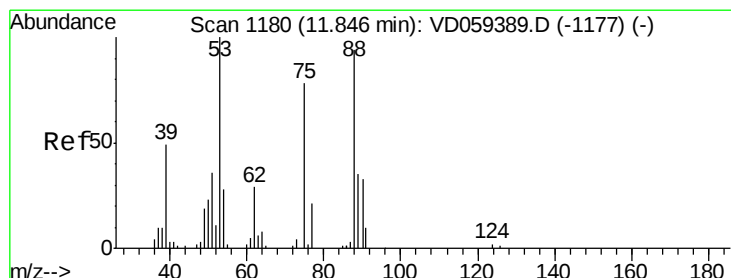
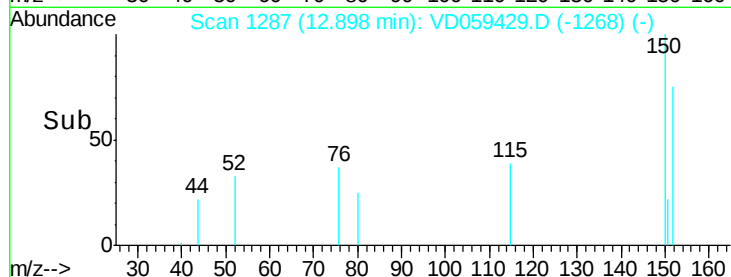
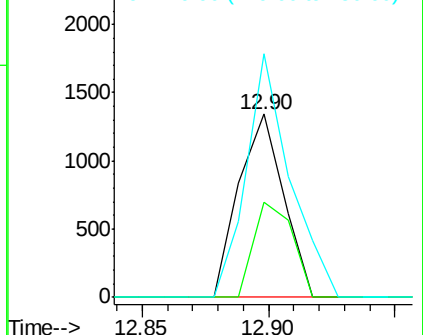
150 132.9 0.0 308.2



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: 185.39 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

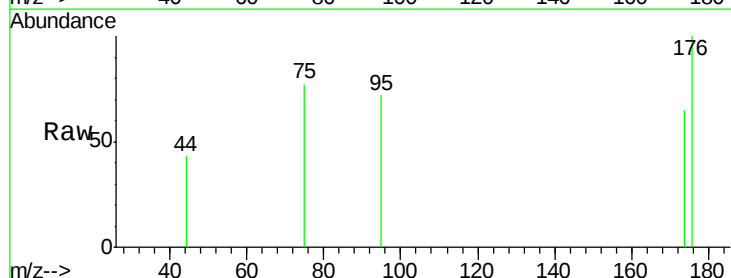
Tgt Ion: 75 Resp: 959

Ion Ratio Lower Upper

75 100

53 0.0 102.6 154.0#

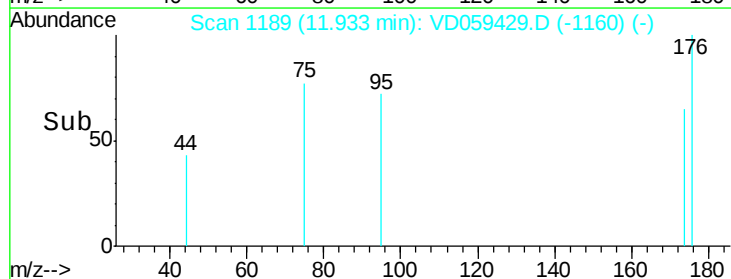
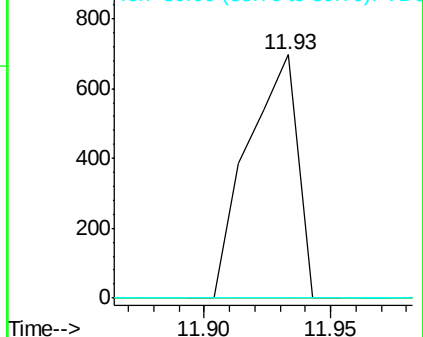
89 0.0 35.9 53.9#

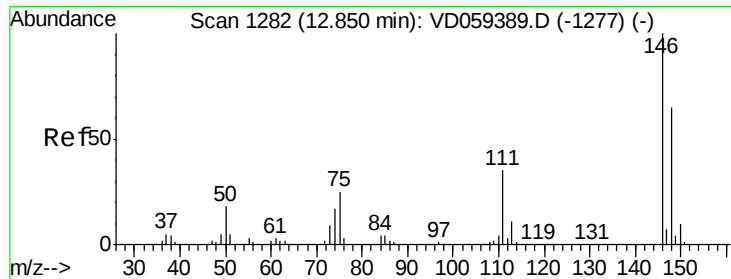


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

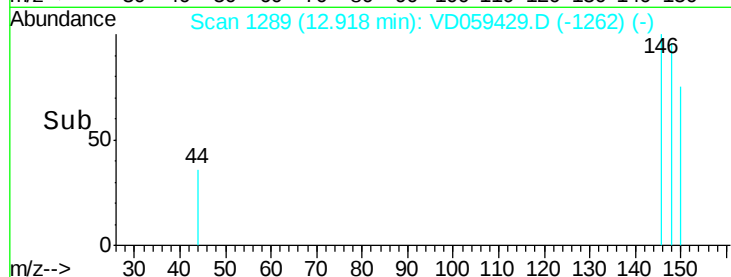
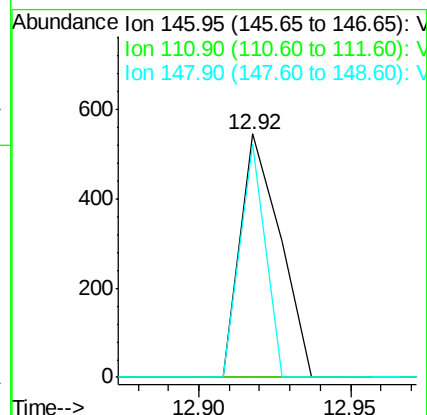
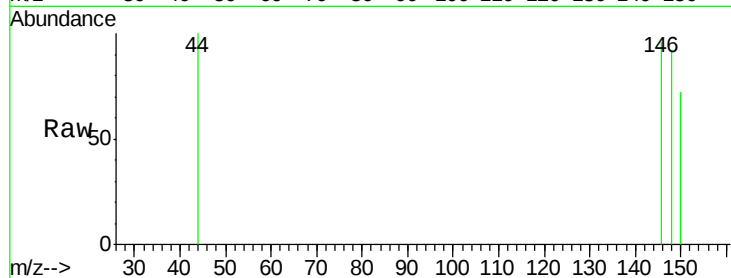




#87
 1,3-Dichlorobenzene
 Concen: 10.41 ug/l
 RT: 12.92 min Scan# 1289
 Delta R.T. 0.07 min
 Lab File: VD059429.D
 Acq: 26 Jun 2018 17:48

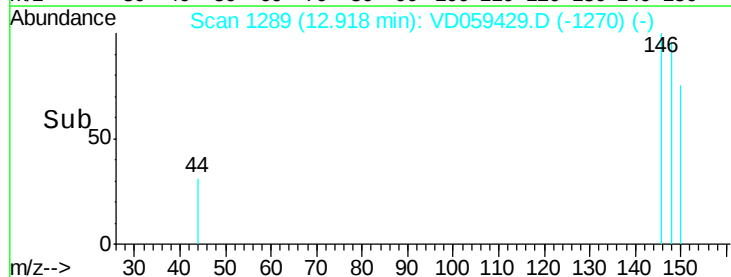
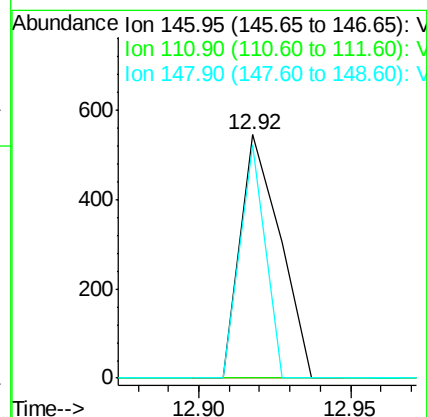
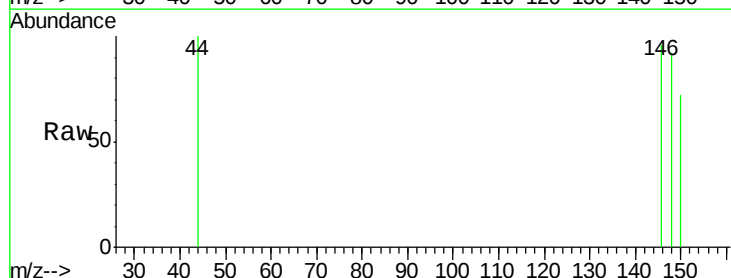
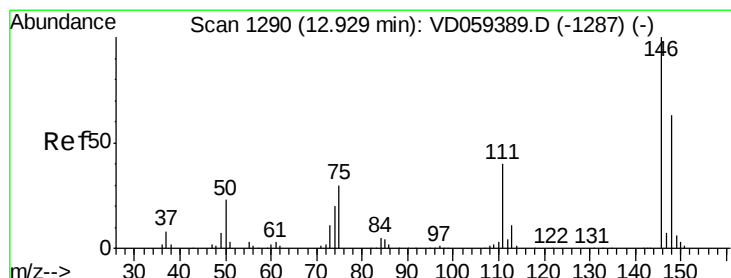
Instrument :
 MSVOA_D
 ClientSampleId :
 RO-1-4

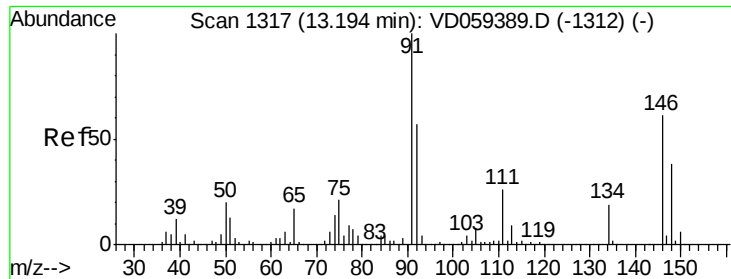
Tot Ion:146 Resp: 502
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.6 52.8#
 148 95.6 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 10.55 ug/l
 RT: 12.92 min Scan# 1289
 Delta R.T. -0.01 min
 Lab File: VD059429.D
 Acq: 26 Jun 2018 17:48

Tgt Ion:146 Resp: 502
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.1 60.2#
 148 95.6 31.4 94.0#





#91

1,2-Dichlorobenzene

Concen: 19.91 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

Instrument :

MSVOA_D

ClientSampleId :

RO-1-4

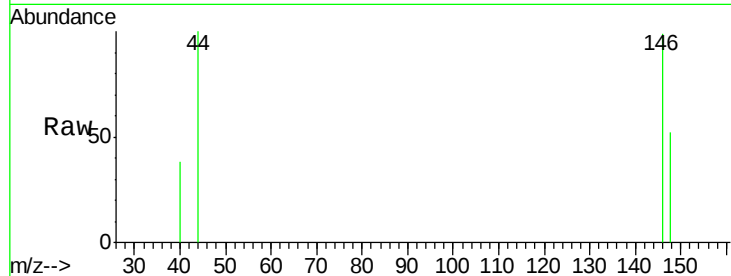
Tot Ion:146 Resp: 814

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

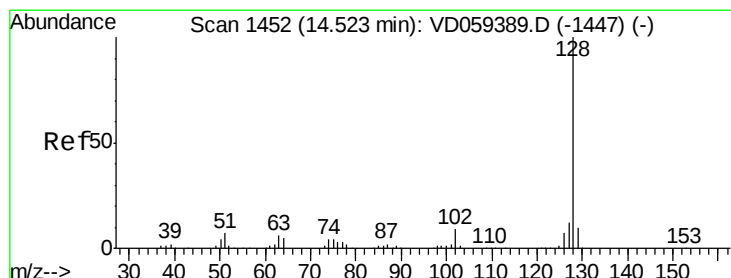
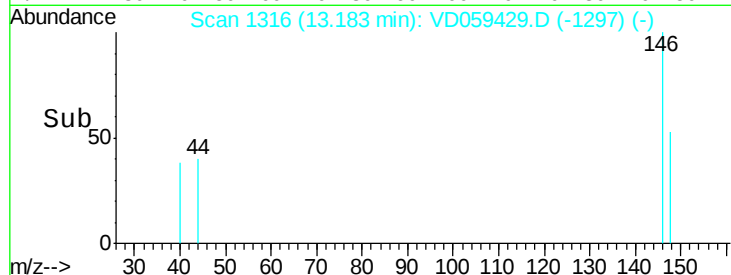
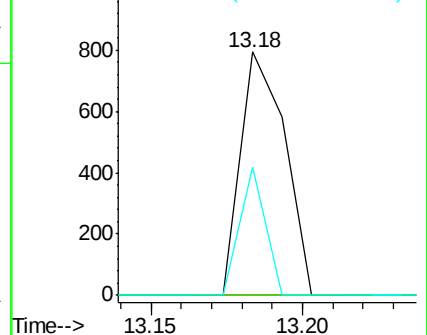
148 52.6 31.6 95.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 14.13 ug/l

RT: 14.50 min Scan# 1450

Delta R.T. -0.02 min

Lab File: VD059429.D

Acq: 26 Jun 2018 17:48

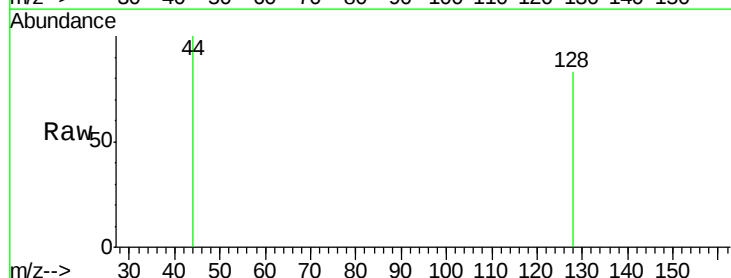
Tgt Ion:128 Resp: 744

Ion Ratio Lower Upper

128 100

127 0.0 9.6 14.4#

129 0.0 8.2 12.2#



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

