

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD100518\
 Data File : VD060141.D
 Acq On : 5 Oct 2018 17:06
 Operator : VA/AP
 Sample : J5270-04
 Misc : 4.98g/5ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Quant Time: Oct 05 23:42:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	198389	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	247539	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	96710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	19528	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	101362	67.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	134.80%	
35) Dibromofluoromethane	6.30	113	106477	56.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.28%	
50) Toluene-d8	9.44	98	128548	23.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	47.96%	
62) 4-Bromofluorobenzene	12.41	95	20293	10.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.22%	

Target Compounds

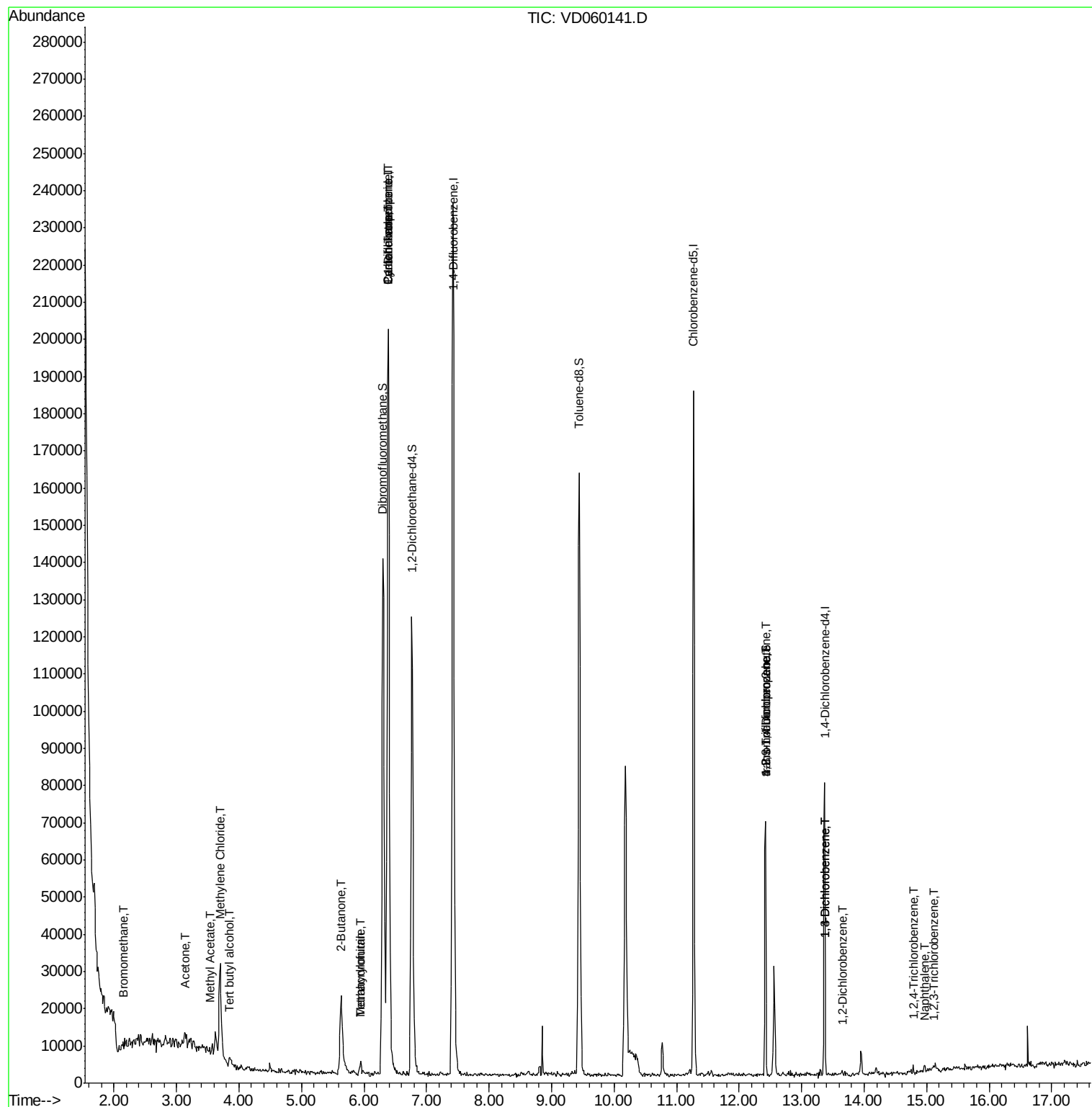
						Qvalue
5) Bromomethane	2.14	94	210	1.214	ug/l #	1
11) Tert butyl alcohol	3.86	59	1875	17.385	ug/l #	74
16) Acetone	3.14	43	9353	34.276	ug/l #	86
18) Methyl Acetate	3.54	43	1930	3.291	ug/l #	63
20) Methylene Chloride	3.70	84	13886	2.368	ug/l	97
25) 2-Butanone	5.62	43	2053	3.012	ug/l #	59
29) Tetrahydrofuran	5.95	42	1576	3.980	ug/l #	53
31) Cyclohexane	6.38	56	3662	1.124	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	13501	5.708	ug/l #	45
38) Carbon Tetrachloride	6.39	117	15508	7.223	ug/l #	15
41) Methacrylonitrile	5.96	41	1309	1.475	ug/l #	44
76) 1,2,3-Trichloropropane	12.41	75	7815	27.789	ug/l #	42
81) trans-1,4-Dichloro-2-buten	12.41	75	9043	114.438	ug/l #	13
87) 1,3-Dichlorobenzene	13.39	146	1430	2.192	ug/l	93
88) 1,4-Dichlorobenzene	13.39	146	1430	2.183	ug/l	93
91) 1,2-Dichlorobenzene	13.64	146	602	1.098	ug/l #	24
93) 1,2,4-Trichlorobenzene	14.78	180	1083	2.327	ug/l #	73
95) Naphthalene	14.96	128	2252	3.264	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.11	180	901	2.225	ug/l #	87

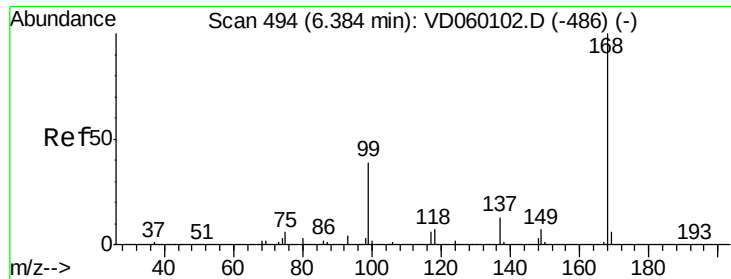
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 02 06:56:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

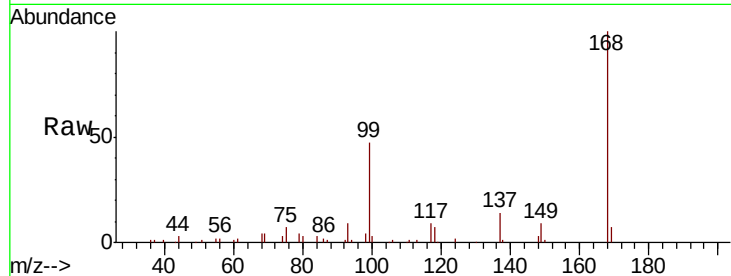
STOCK-PILE-B

Tgt Ion:168 Resp: 198389

Ion Ratio Lower Upper

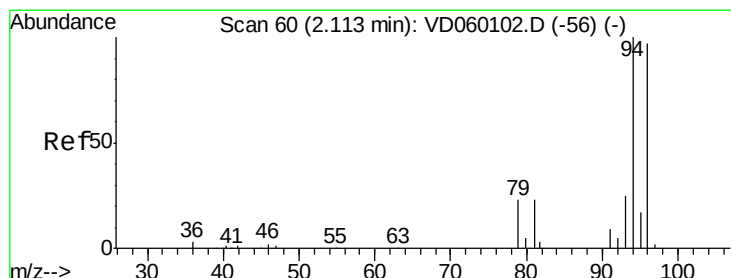
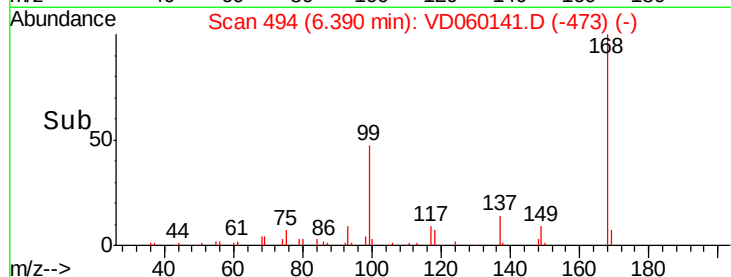
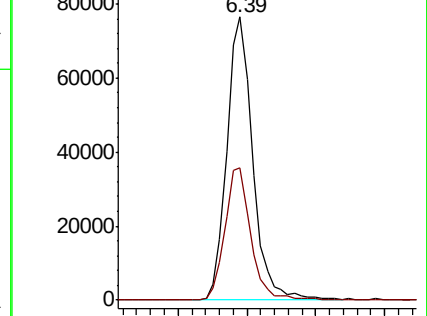
168 100

99 47.0 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.214 ug/l

RT: 2.14 min Scan# 62

Delta R.T. 0.03 min

Lab File: VD060141.D

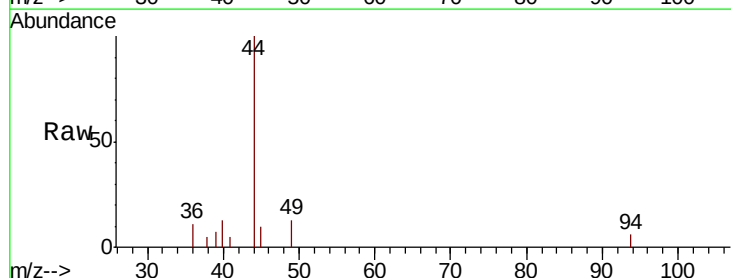
Acq: 5 Oct 2018 17:06

Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

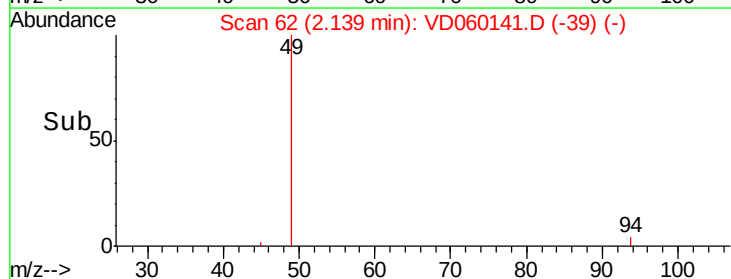
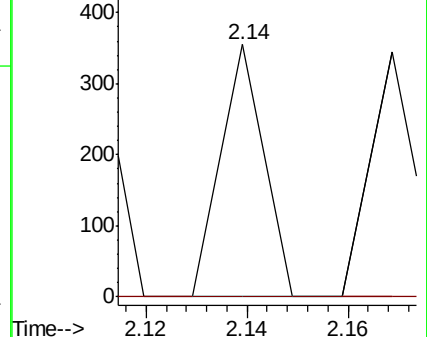
94 100

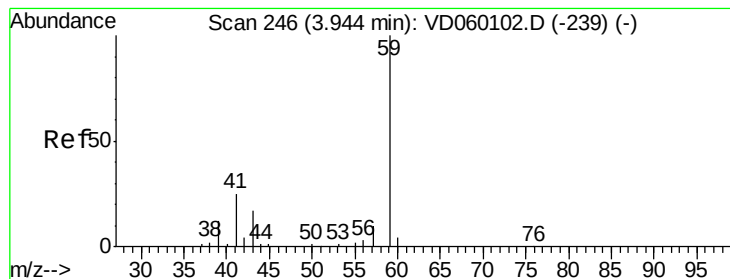
96 0.0 77.4 116.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Tert butyl alcohol

Concen: 17.385 ug/l

RT: 3.86 min Scan# 237

Delta R.T. -0.08 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

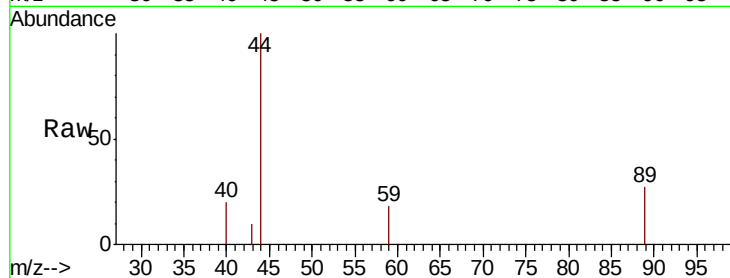
STOCK-PILE-B

Tgt Ion: 59 Resp: 1875

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

800

600

400

200

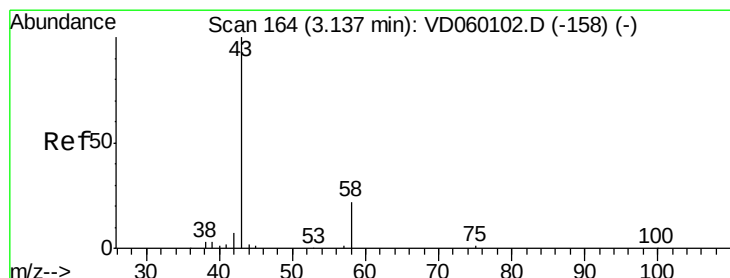
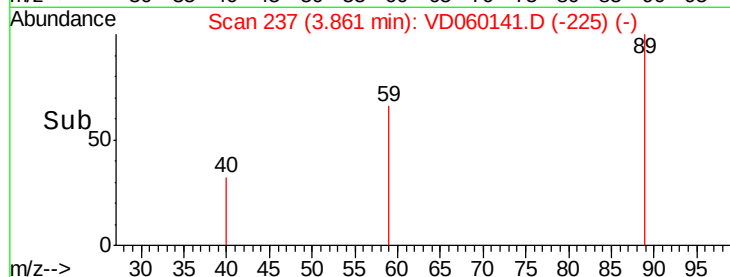
0

3.80

3.85

3.90

Time-->



#16

Acetone

Concen: 34.276 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060141.D

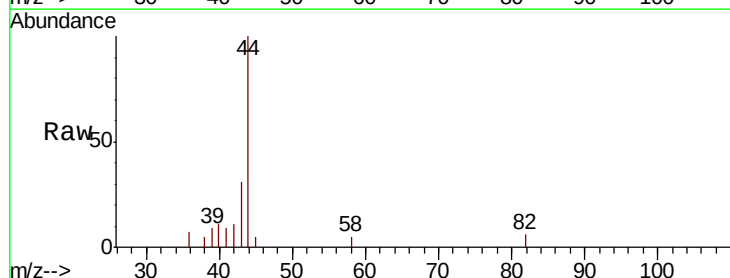
Acq: 5 Oct 2018 17:06

Tgt Ion: 43 Resp: 9353

Ion Ratio Lower Upper

43 100

58 15.3 17.7 26.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2000

1500

1000

500

0

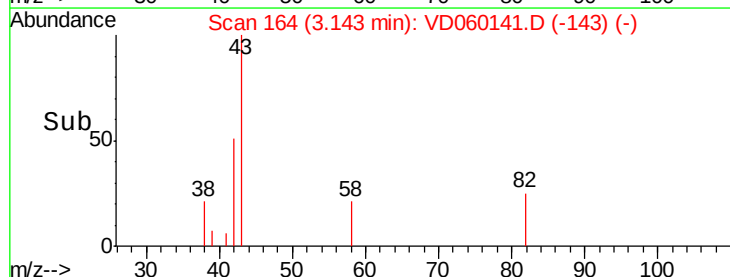
3.00

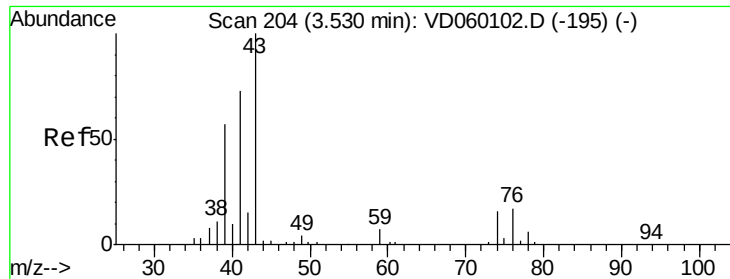
3.10

3.20

3.30

Time-->

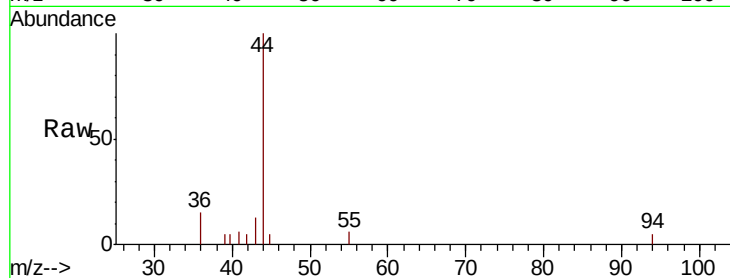




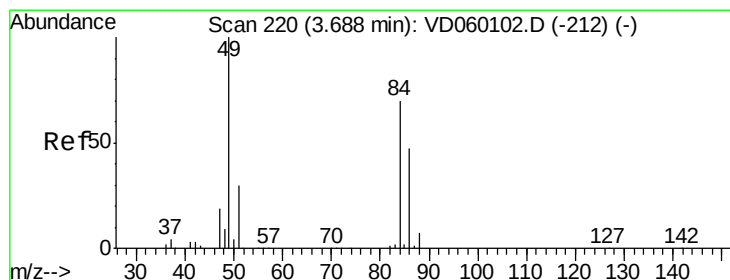
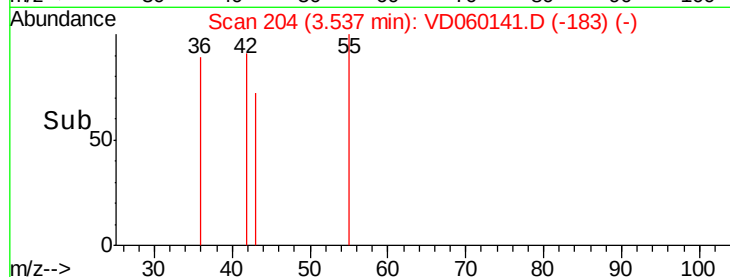
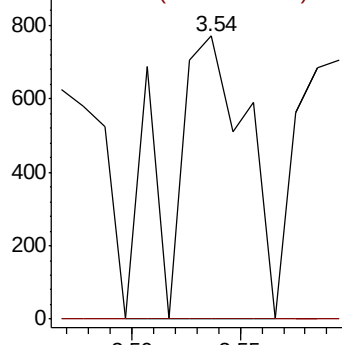
#18
Methyl Acetate
Concen: 3.291 ug/l
RT: 3.54 min Scan# 204
Delta R.T. 0.01 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-B

Tgt Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
74 0.0 12.6 19.0#

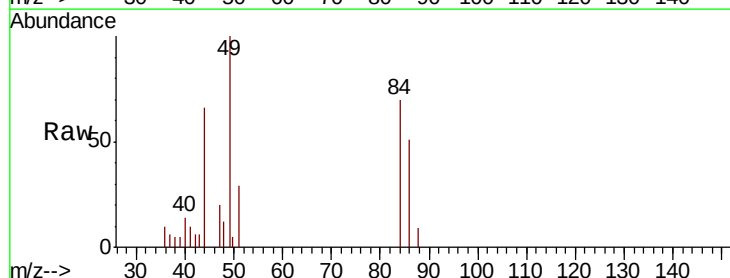


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

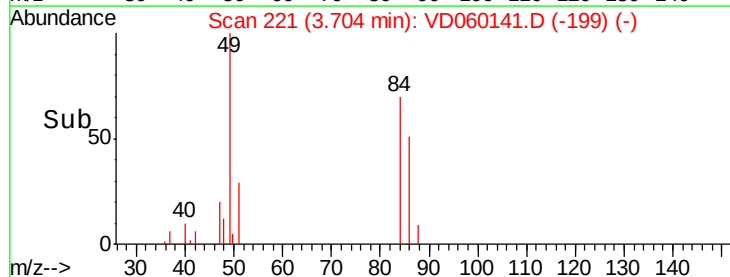
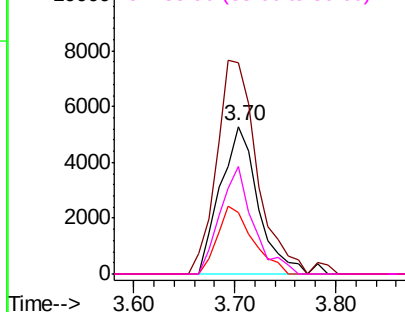


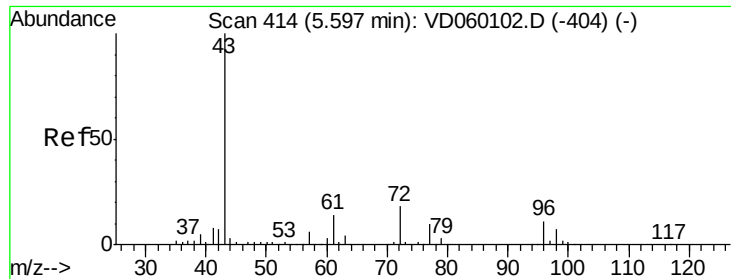
#20
Methylene Chloride
Concen: 2.368 ug/l
RT: 3.70 min Scan# 221
Delta R.T. 0.02 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

Tgt Ion: 84 Resp: 13886
Ion Ratio Lower Upper
84 100
49 142.8 114.6 172.0
51 41.6 33.8 50.8
86 73.1 53.3 79.9



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: 3.012 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.03 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

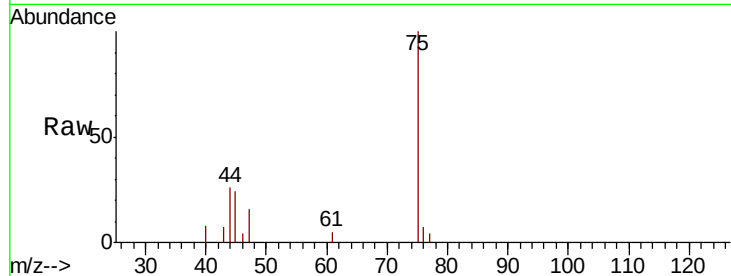
STOCK-PILE-B

Tgt Ion: 43 Resp: 2053

Ion Ratio Lower Upper

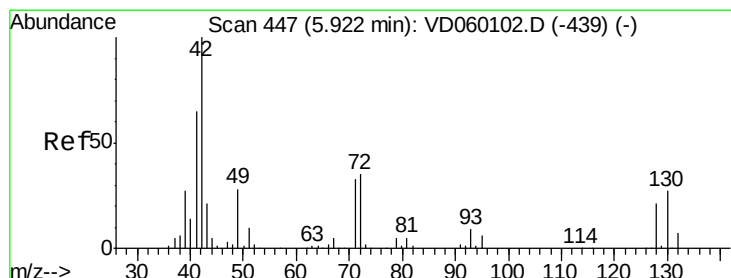
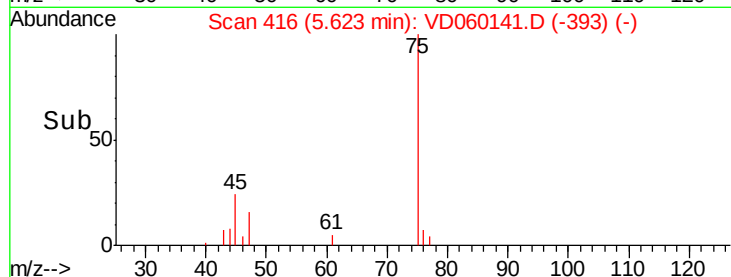
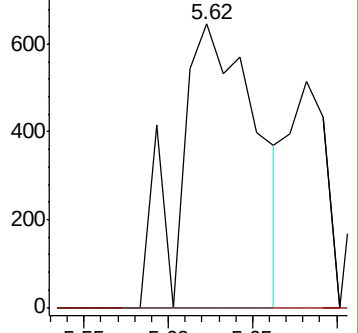
43 100

72 0.0 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 3.980 ug/l

RT: 5.95 min Scan# 449

Delta R.T. 0.03 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

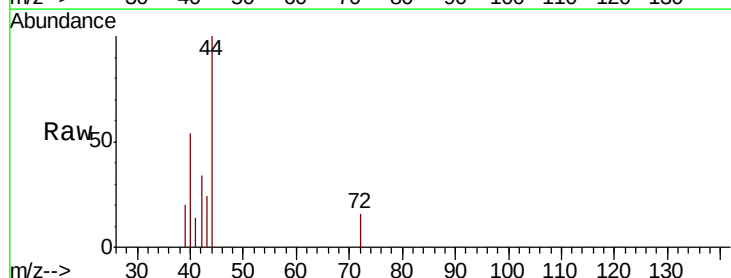
Tgt Ion: 42 Resp: 1576

Ion Ratio Lower Upper

42 100

72 13.1 26.9 40.3#

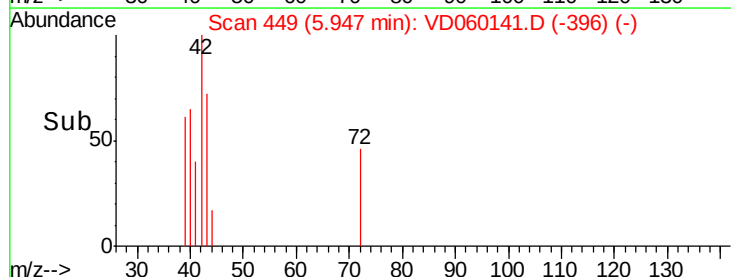
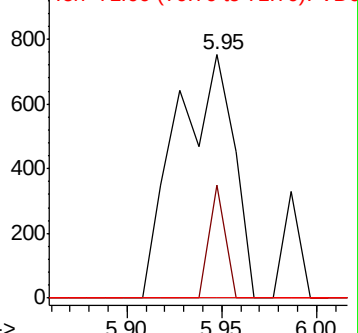
71 0.0 26.7 40.1#

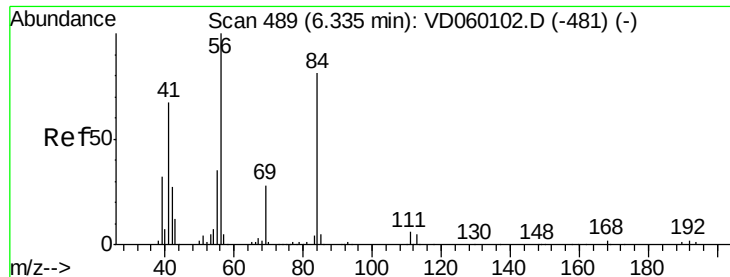


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

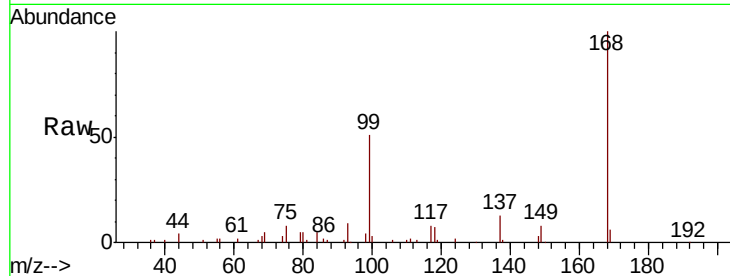




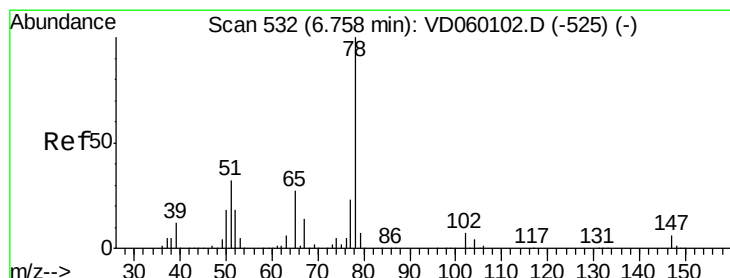
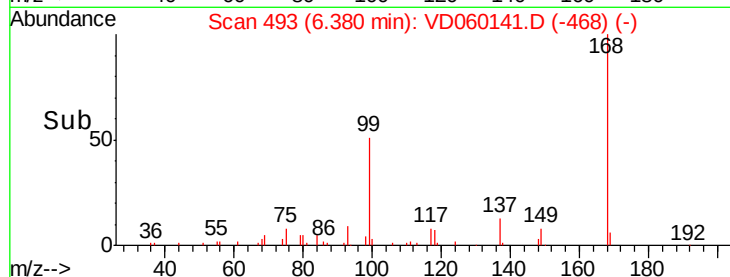
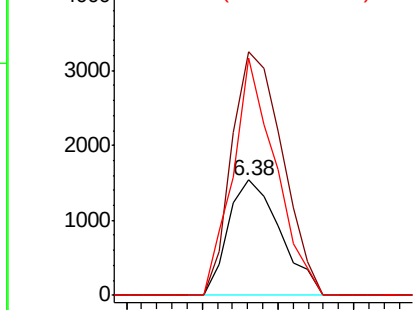
#31
Cyclohexane
Concen: 1.124 ug/l
RT: 6.38 min Scan# 493
Delta R.T. 0.05 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-B

Tgt Ion: 56 Resp: 3662
Ion Ratio Lower Upper
56 100
69 211.4 22.8 34.2#
84 205.7 64.9 97.3#

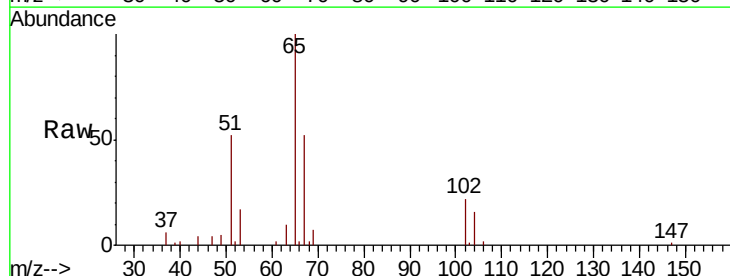


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

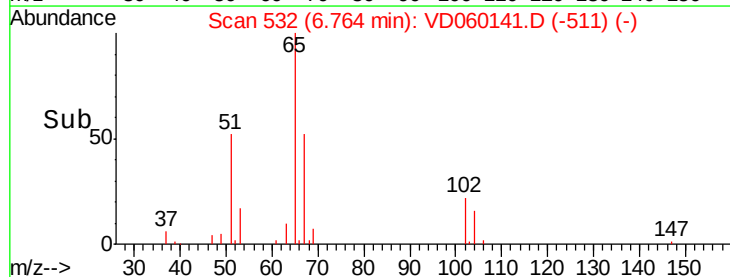
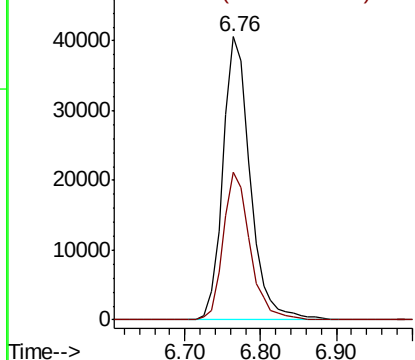


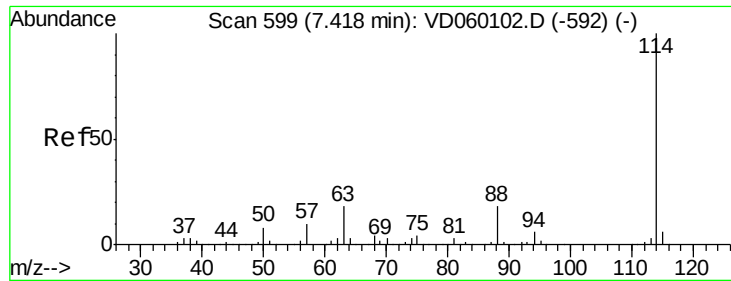
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.76 min Scan# 532
Delta R.T. 0.01 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

Tgt Ion: 65 Resp: 101362
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.2



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

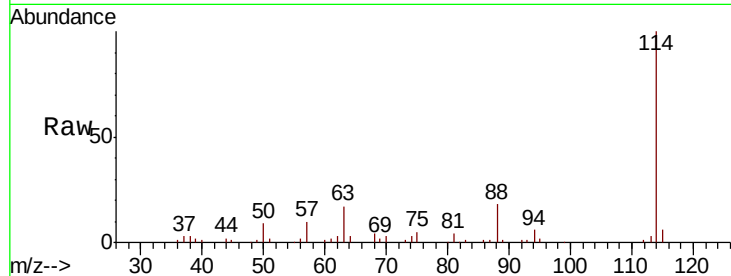




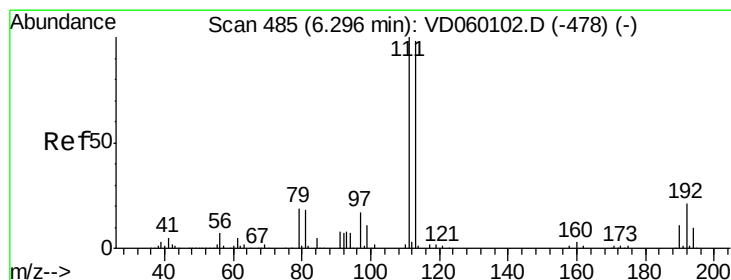
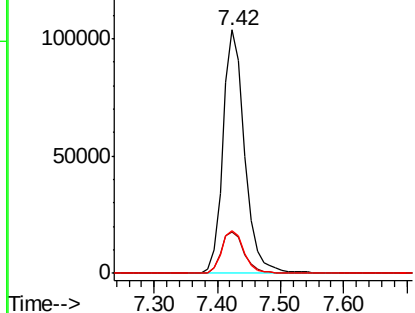
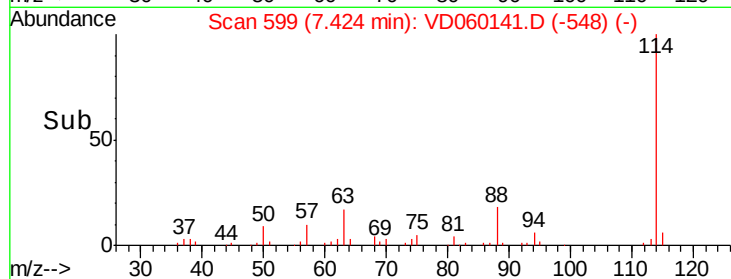
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Tgt Ion:114 Resp: 247539
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 36.0
 88 17.5 0.0 36.2

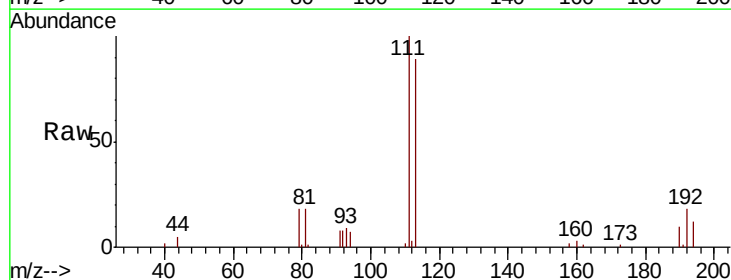


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VD
 Ion 87.90 (87.60 to 88.60): VD

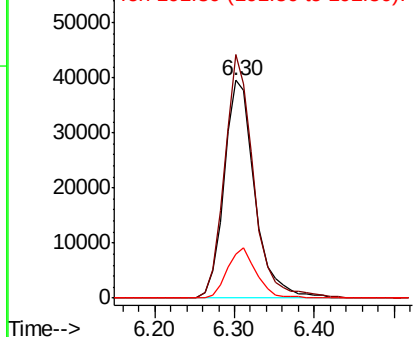
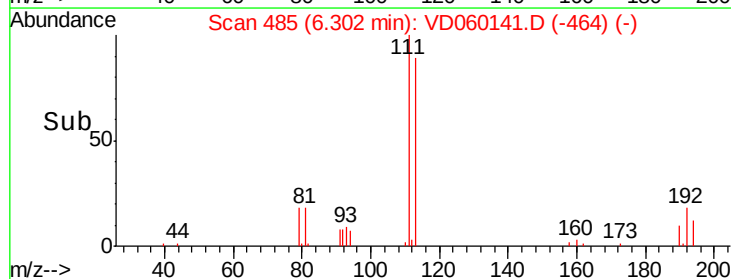


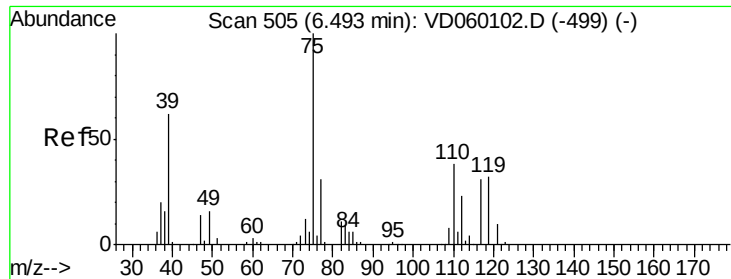
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Tgt Ion:113 Resp: 106477
 Ion Ratio Lower Upper
 113 100
 111 111.7 81.5 122.3
 192 20.2 17.4 26.0



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

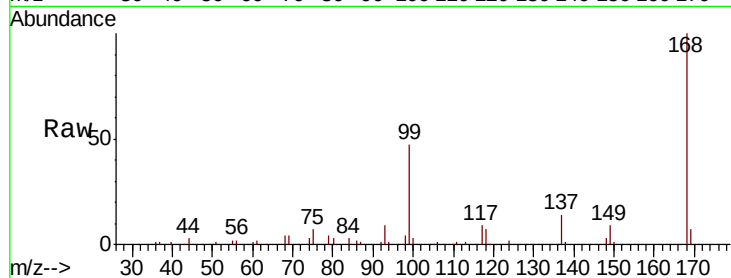




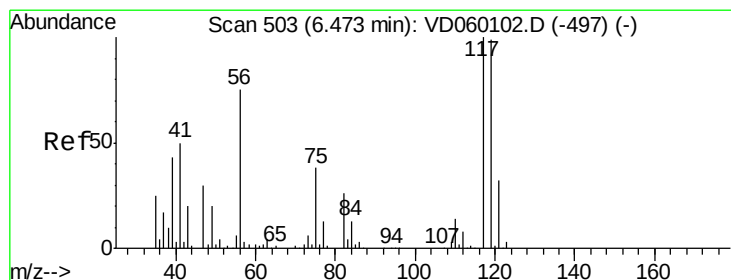
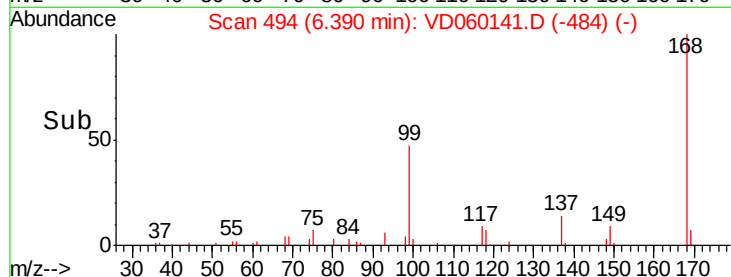
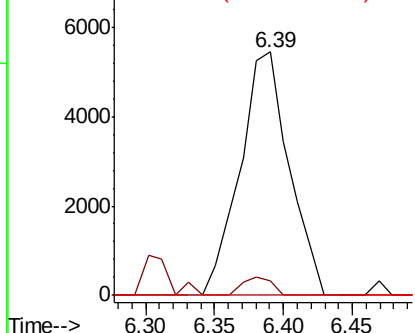
#36
 1,1-Dichloropropene
 Concen: 5.708 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.10 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Tgt Ion: 75 Resp: 13501
 Ion Ratio Lower Upper
 75 100
 110 5.9 19.0 57.0#
 77 0.0 24.9 37.3#

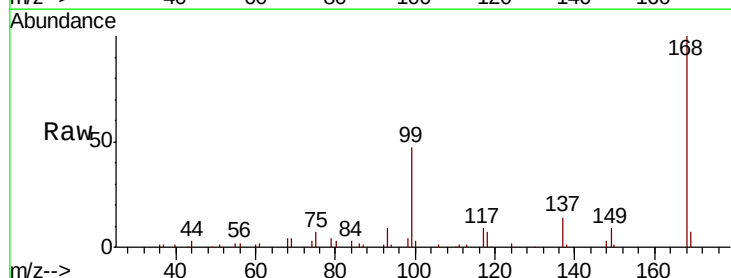


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

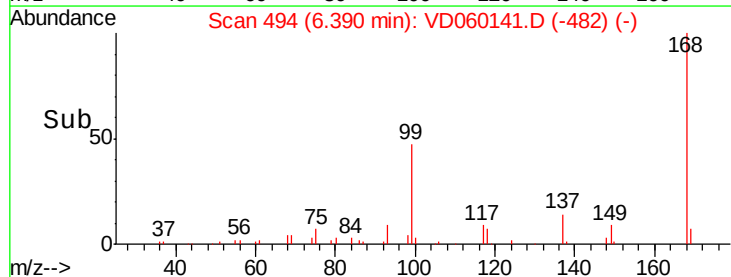
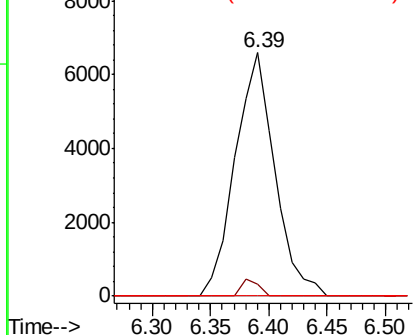


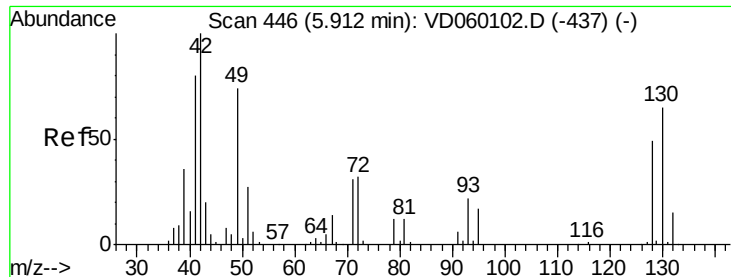
#38
 Carbon Tetrachloride
 Concen: 7.223 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.08 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Tgt Ion: 117 Resp: 15508
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.8 116.6#
 121 0.0 24.8 37.2#



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

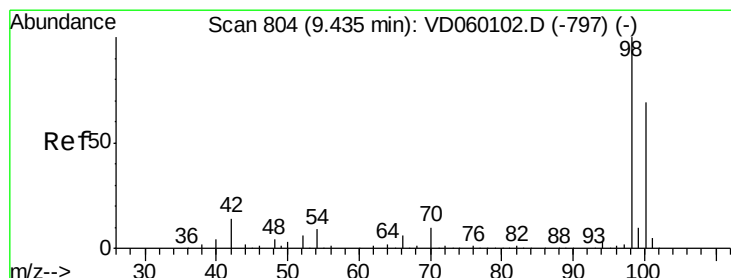
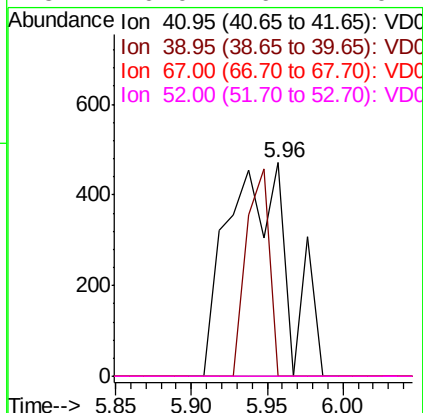
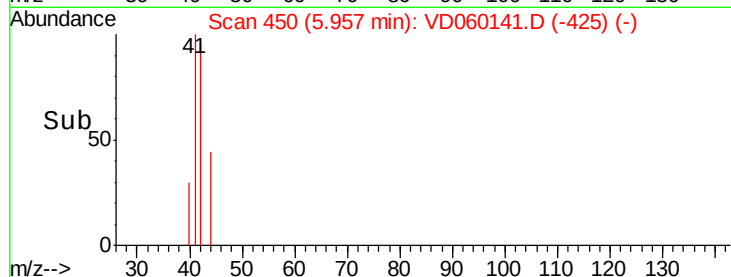
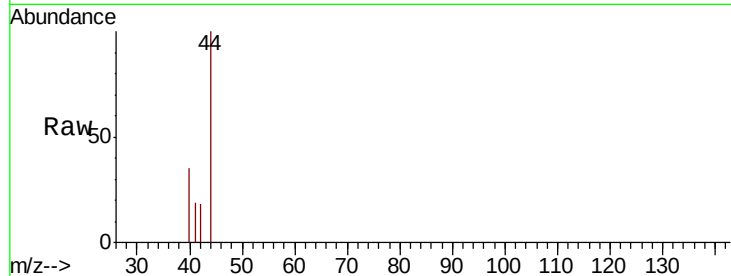




#41
Methacrylonitrile
Concen: 1.475 ug/l
RT: 5.96 min Scan# 450
Delta R.T. 0.05 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

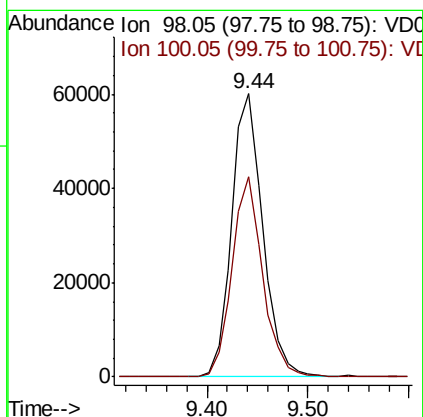
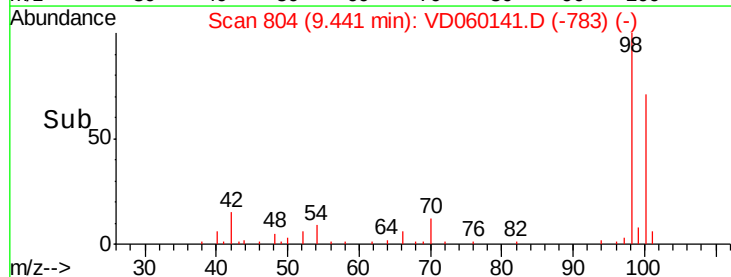
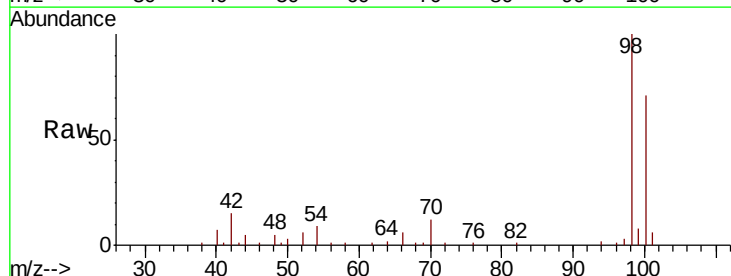
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE-B

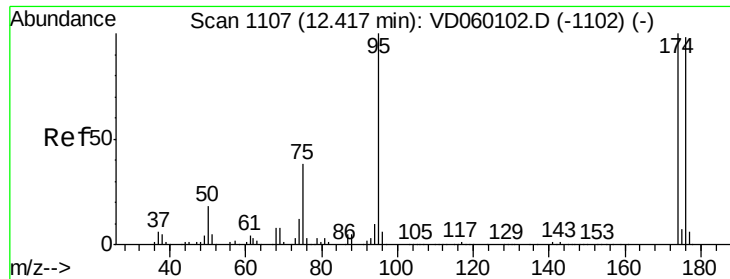
Tgt Ion: 41 Resp: 1309
Ion Ratio Lower Upper
41 100
39 0.0 36.0 54.0#
67 0.0 13.9 20.9#
52 0.0 6.1 9.1#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 804
Delta R.T. 0.01 min
Lab File: VD060141.D
Acq: 5 Oct 2018 17:06

Tgt Ion: 98 Resp: 128548
Ion Ratio Lower Upper
98 100
100 70.5 55.4 83.0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-B

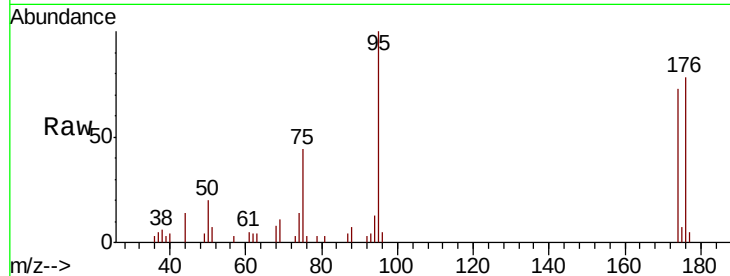
Tgt Ion: 95 Resp: 20293

Ion Ratio Lower Upper

95 100

174 73.1 0.0 200.2

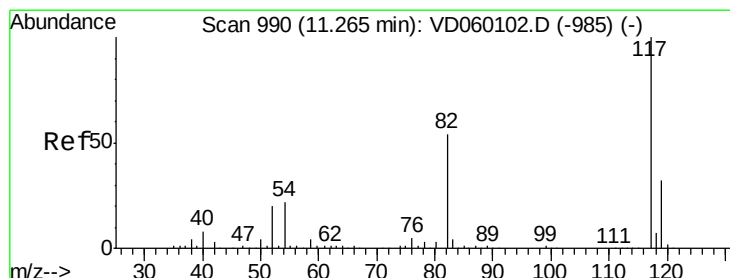
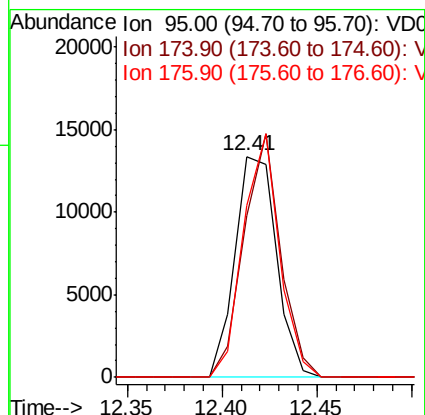
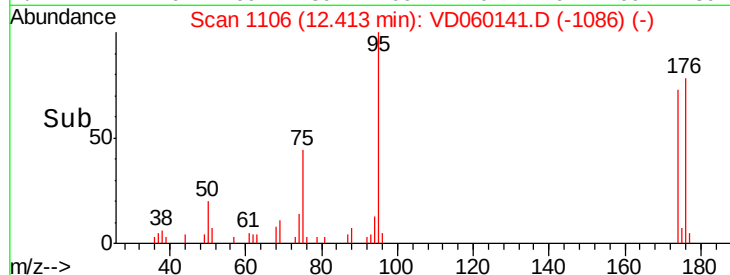
176 78.0 0.0 195.6



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: 11.27 min Scan# 990

Delta R.T. 0.01 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

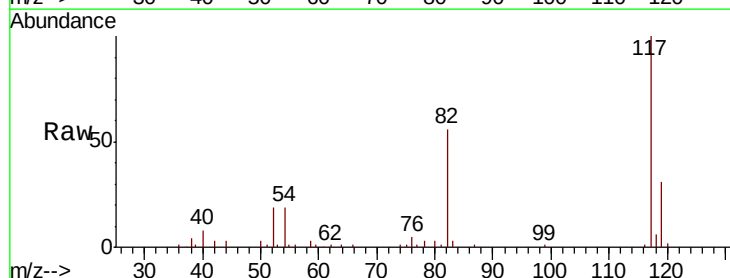
Tgt Ion: 117 Resp: 96710

Ion Ratio Lower Upper

117 100

82 56.4 43.4 65.2

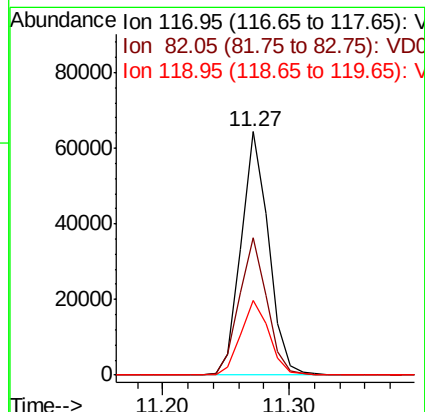
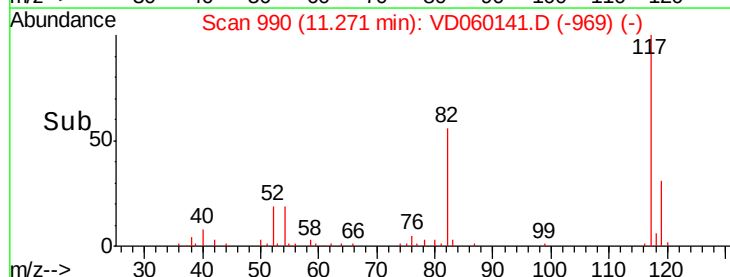
119 30.6 26.0 39.0

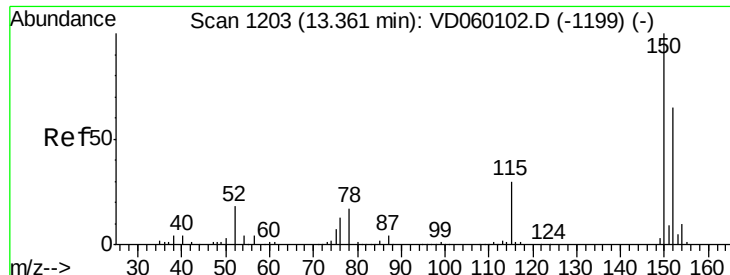


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-B

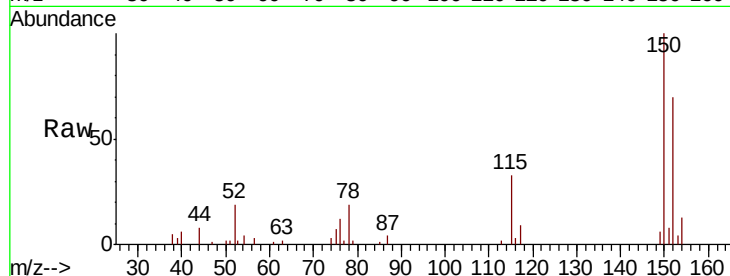
Tgt Ion:152 Resp: 19528

Ion Ratio Lower Upper

152 100

115 47.1 27.1 81.2

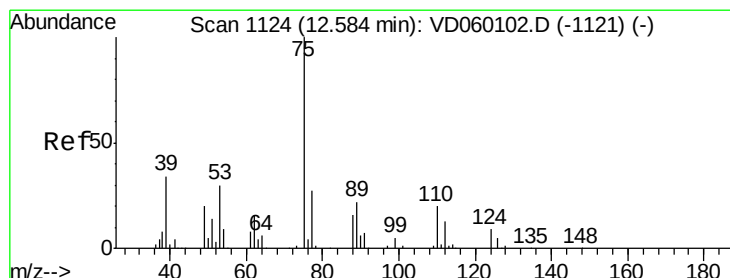
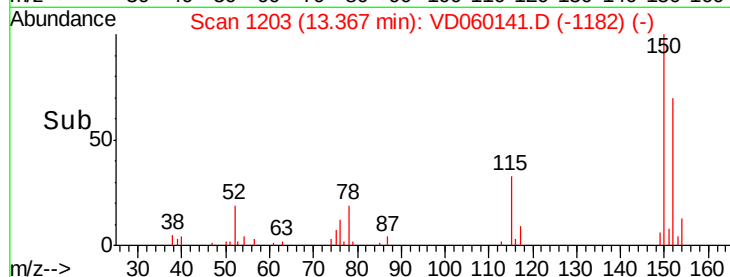
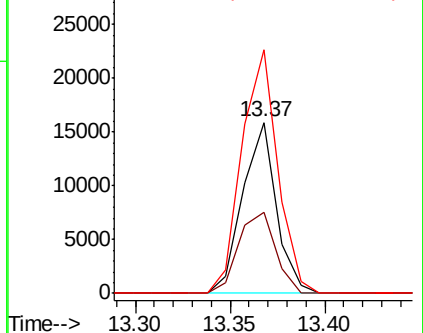
150 142.4 0.0 311.8



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: 27.789 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. -0.17 min

Lab File: VD060141.D

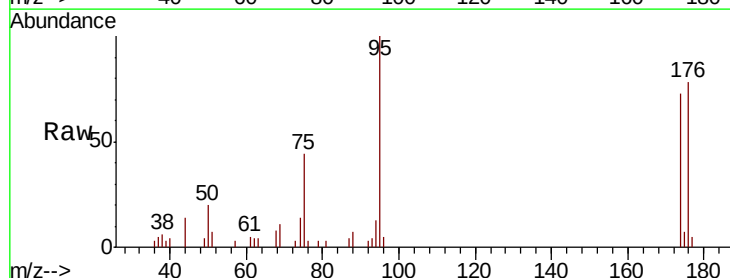
Acq: 5 Oct 2018 17:06

Tgt Ion: 75 Resp: 7815

Ion Ratio Lower Upper

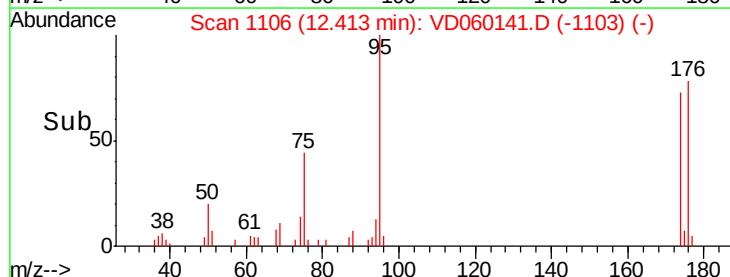
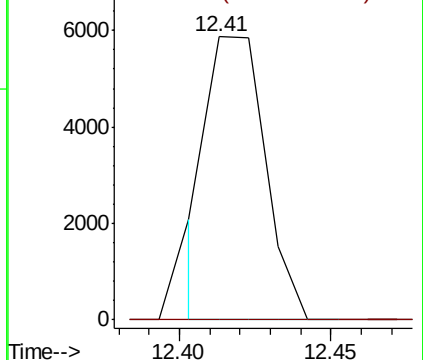
75 100

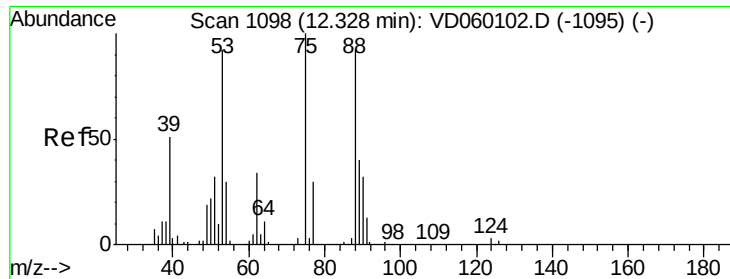
77 0.0 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 114.438 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.08 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE-B

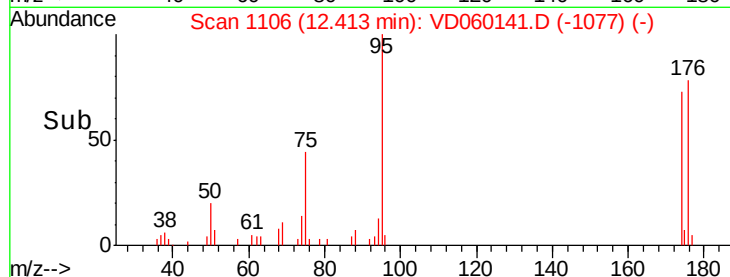
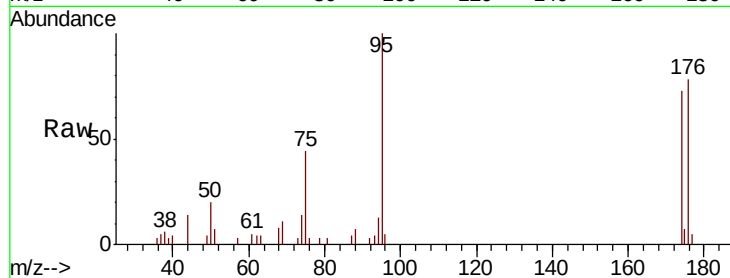
Tgt Ion: 75 Resp: 9043

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.6#

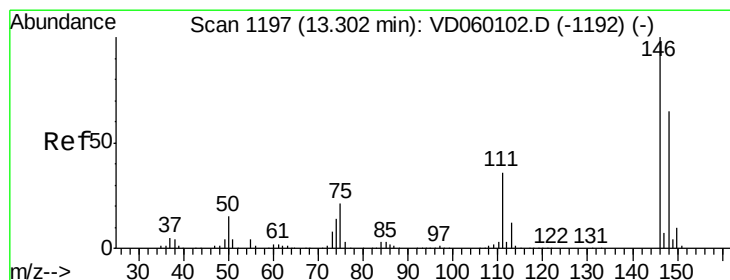
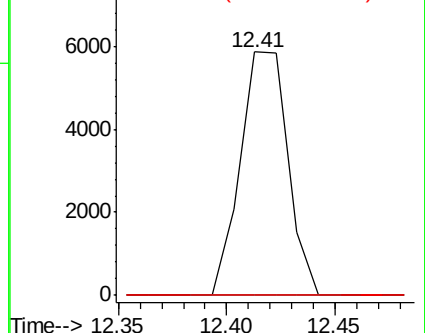
89 0.0 32.0 48.0#



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: 2.192 ug/l

RT: 13.39 min Scan# 1205

Delta R.T. 0.08 min

Lab File: VD060141.D

Acq: 5 Oct 2018 17:06

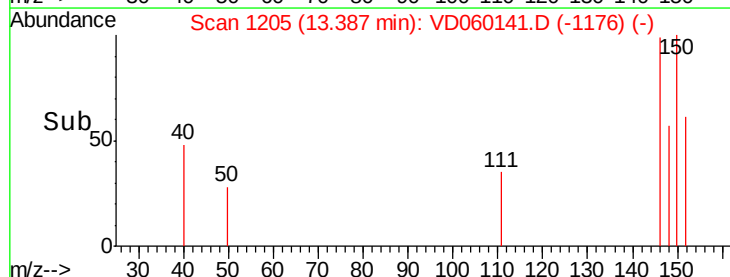
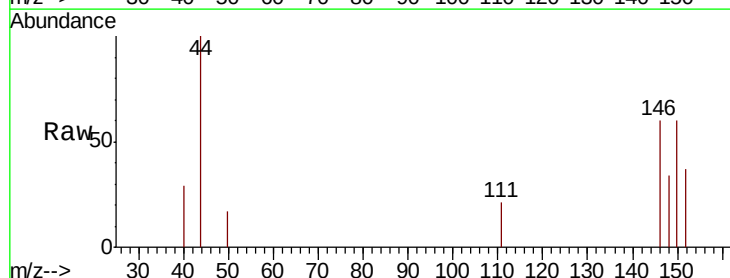
Tgt Ion: 146 Resp: 1430

Ion Ratio Lower Upper

146 100

111 34.8 18.1 54.3

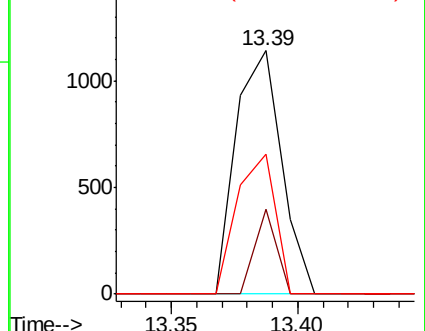
148 57.3 32.3 96.9

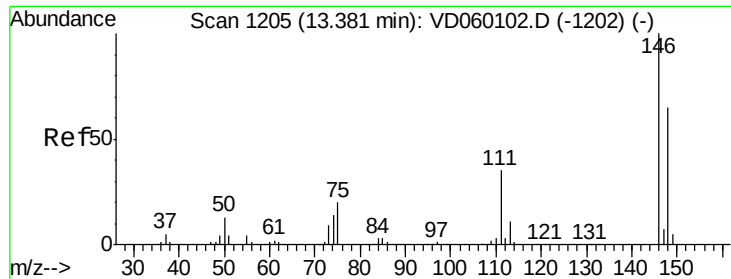


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

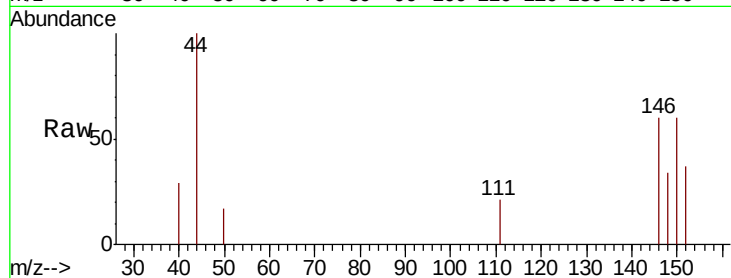




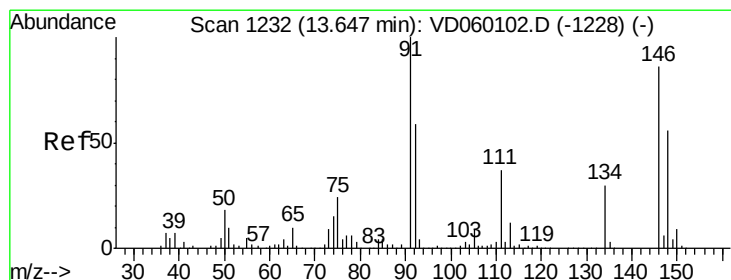
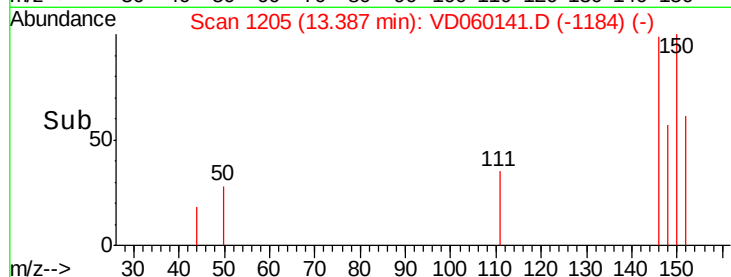
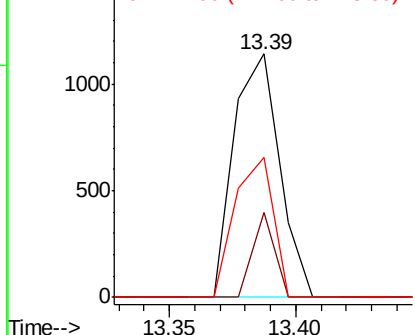
#88
 1,4-Dichlorobenzene
 Concen: 2.183 ug/l
 RT: 13.39 min Scan# 1205
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Tgt Ion:146 Resp: 1430
 Ion Ratio Lower Upper
 146 100
 111 34.8 17.8 53.3
 148 57.3 32.4 97.2

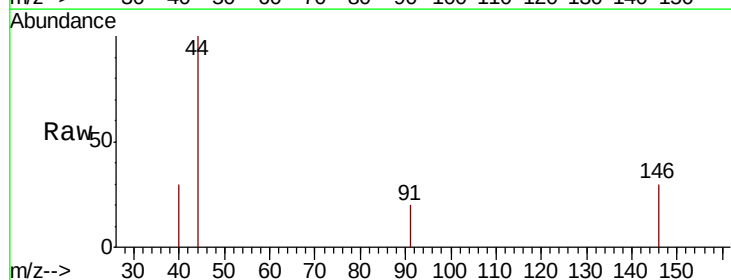


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

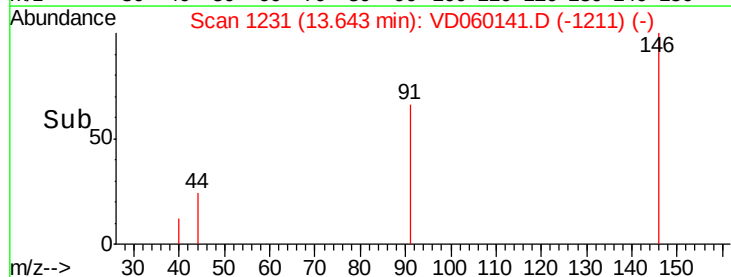
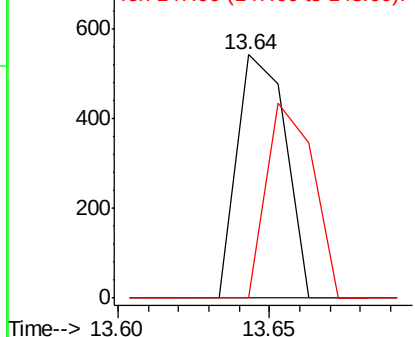


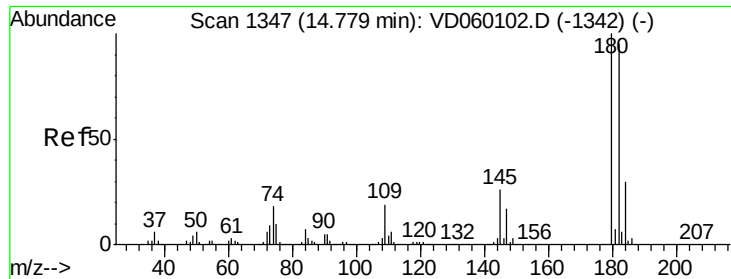
#91
 1,2-Dichlorobenzene
 Concen: 1.098 ug/l
 RT: 13.64 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Tgt Ion:146 Resp: 602
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.4 64.3#
 148 0.0 32.2 96.6#



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

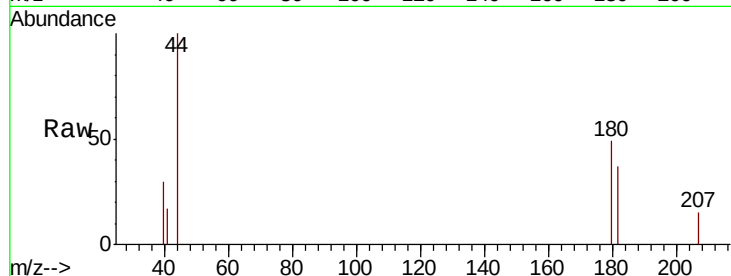




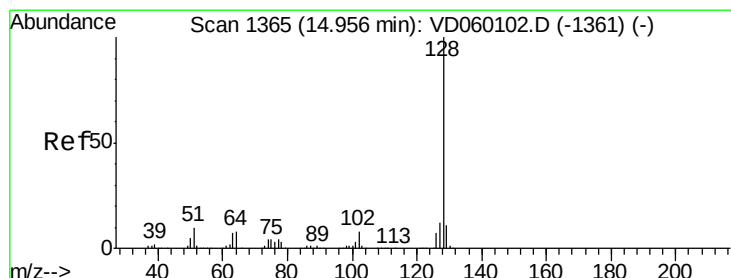
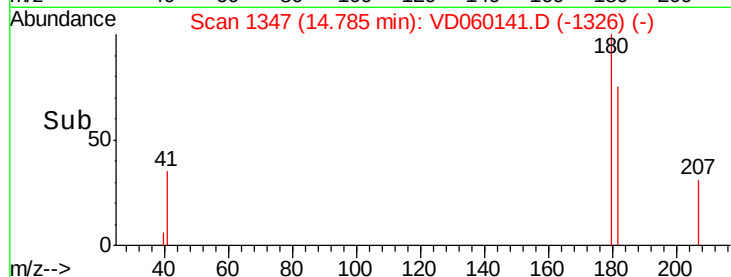
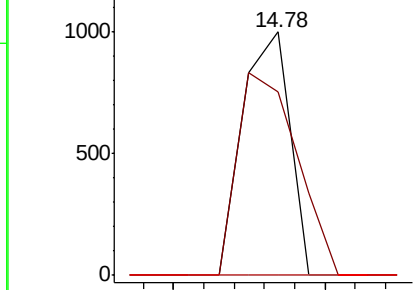
#93
 1,2,4-Trichlorobenzene
 Concen: 2.327 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Tgt Ion:180 Resp: 1083
 Ion Ratio Lower Upper
 180 100
 182 75.3 47.3 141.8
 145 0.0 13.0 38.9#

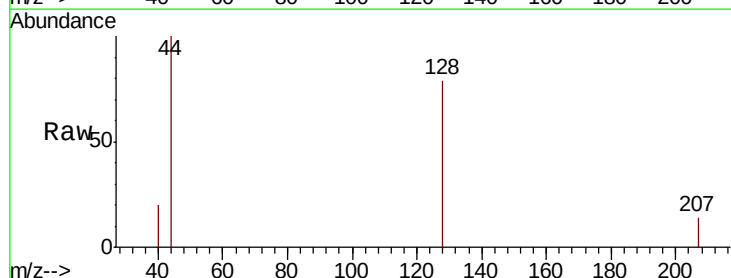


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

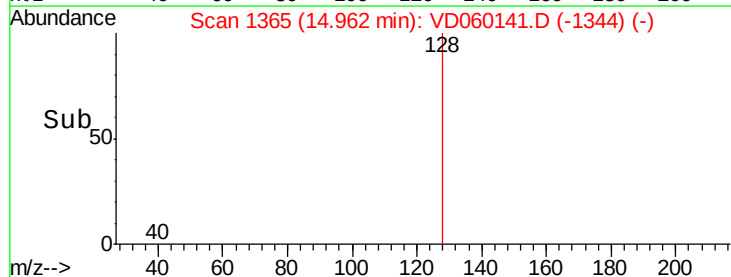
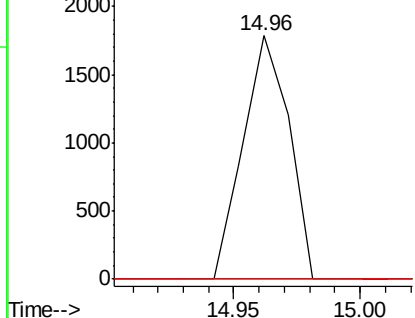


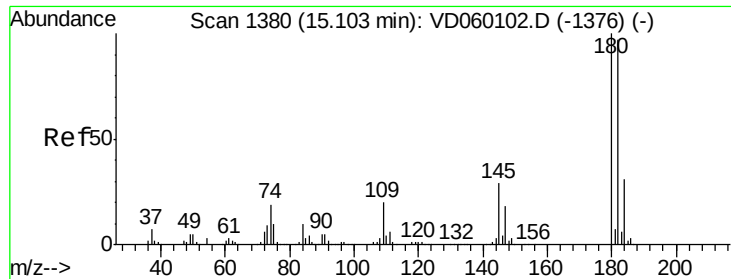
#95
 Naphthalene
 Concen: 3.264 ug/l
 RT: 14.96 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Tgt Ion:128 Resp: 2252
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.9 14.9#
 129 0.0 8.8 13.2#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 2.225 ug/l
 RT: 15.11 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VD060141.D
 Acq: 5 Oct 2018 17:06

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE-B

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	48.4	145.0
145	0.0	14.5	43.6

