

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121818\
 Data File : VD060626.D
 Acq On : 18 Dec 2018 17:35
 Operator : VA/AP
 Sample : J6445-02RE
 Misc : 4.73q/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EB06_12-14RE

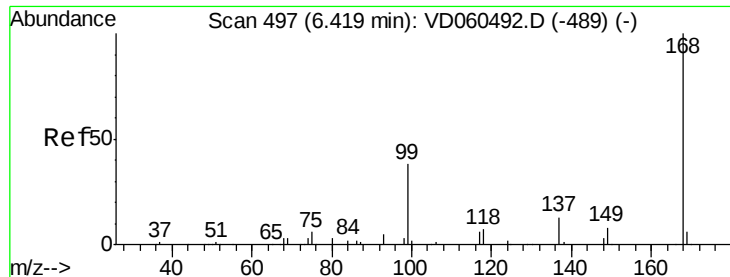
Quant Time: Dec 19 02:49:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	219242	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	368037	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.28	117	326752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	158297	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	136693	87.96	ug/l	-0.02
Spiked Amount			Recovery	=	175.92%	
35) Dibromofluoromethane	6.32	113	20029	7.41	ug/l	-0.02
Spiked Amount			Recovery	=	14.82%	
50) Toluene-d8	9.45	98	290681	37.16	ug/l	0.00
Spiked Amount			Recovery	=	74.32%	
62) 4-Bromofluorobenzene	12.42	95	108878	38.90	ug/l	-0.02
Spiked Amount			Recovery	=	77.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	509	1.132	ug/l #	4
16) Acetone	3.16	43	23415	94.002	ug/l	92
18) Methyl Acetate	3.57	43	636	1.074	ug/l #	64
20) Methylene Chloride	3.73	84	13287	1.468	ug/l #	82
25) 2-Butanone	5.63	43	2637	5.381	ug/l #	59
29) Tetrahydrofuran	5.97	42	496	1.787	ug/l #	40
31) Cyclohexane	6.40	56	4189	Below Cal	#	1
36) 1,1-Dichloropropene	6.40	75	15973	4.440	ug/l #	46
37) Ethyl Acetate	5.63	43	2637	1.690	ug/l #	68
38) Carbon Tetrachloride	6.40	117	17176	5.318	ug/l #	16
40) Benzene	6.79	78	9779	1.064	ug/l	95
51) 4-Methyl-2-Pentanone	9.44	43	1490	1.244	ug/l #	1
52) Toluene	9.54	92	63469	11.045	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.42	75	50137	100.225	ug/l #	14
89) n-Butylbenzene	13.64	91	194	Below Cal	#	29
95) Naphthalene	14.97	128	41197	10.168	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

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MSVOA_D

ClientSampleId :

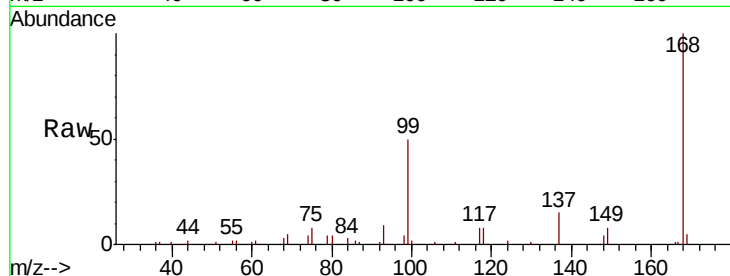
EB06_12-14RE

Tot Ion:168 Resp: 219242

Ion Ratio Lower Upper

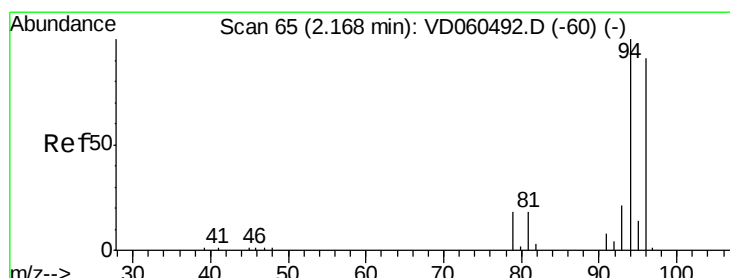
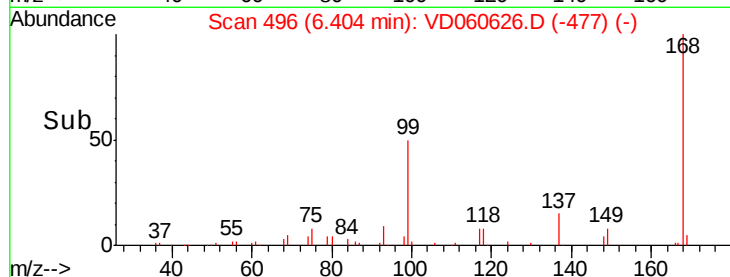
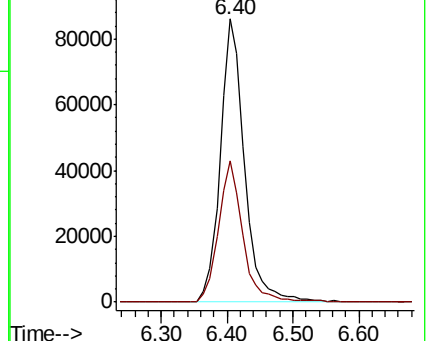
168 100

99 49.9 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.132 ug/l

RT: 2.18 min Scan# 67

Delta R.T. 0.01 min

Lab File: VD060626.D

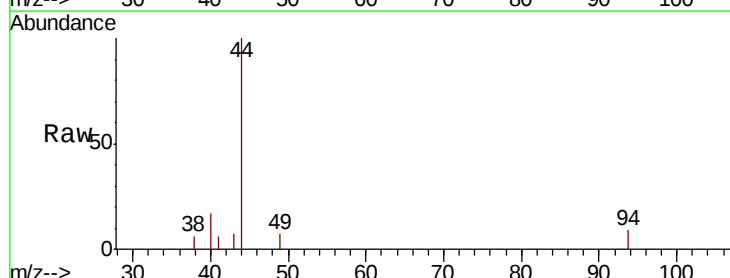
Acq: 18 Dec 2018 17:35

Tgt Ion: 94 Resp: 509

Ion Ratio Lower Upper

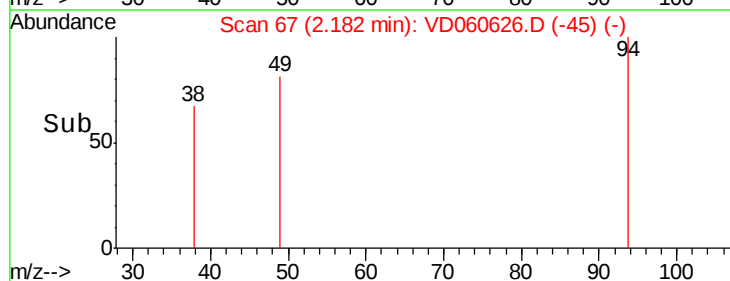
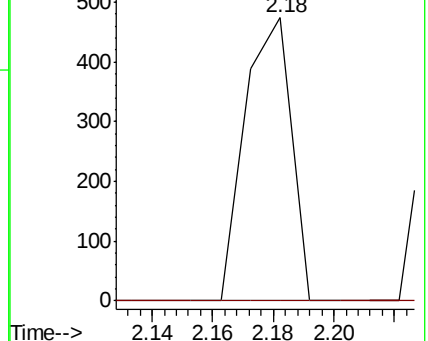
94 100

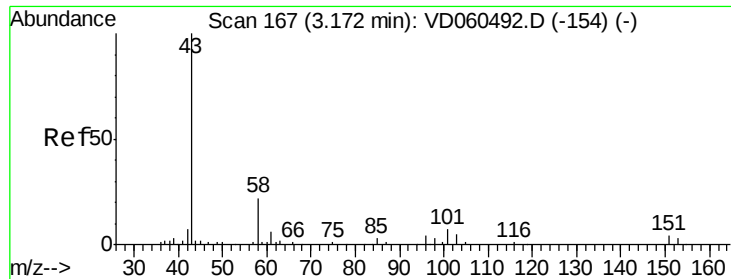
96 0.0 72.6 108.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 94.002 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

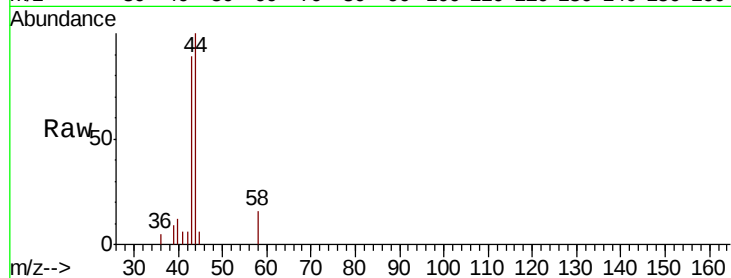
EB06_12-14RE

Tot Ion: 43 Resp: 23415

Ion Ratio Lower Upper

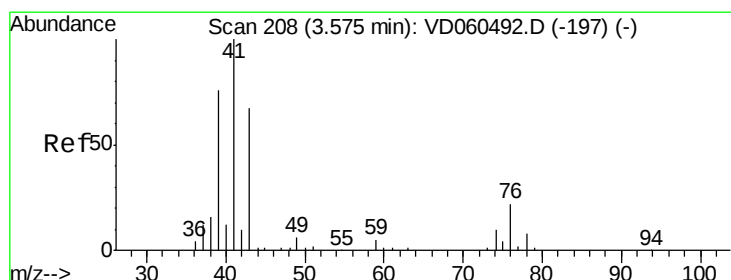
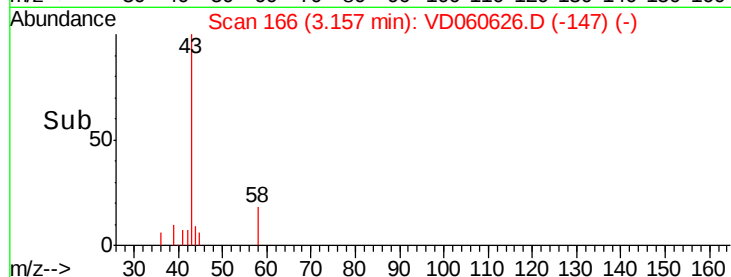
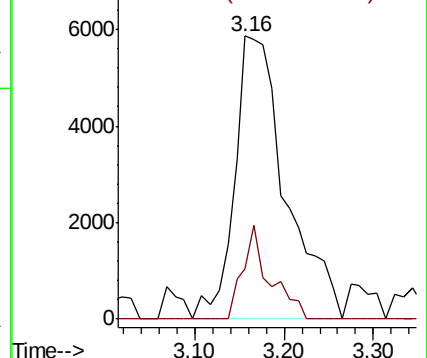
43 100

58 18.0 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.074 ug/l

RT: 3.57 min Scan# 208

Delta R.T. -0.01 min

Lab File: VD060626.D

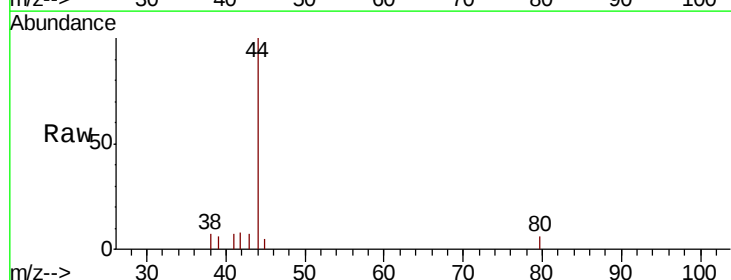
Acq: 18 Dec 2018 17:35

Tgt Ion: 43 Resp: 636

Ion Ratio Lower Upper

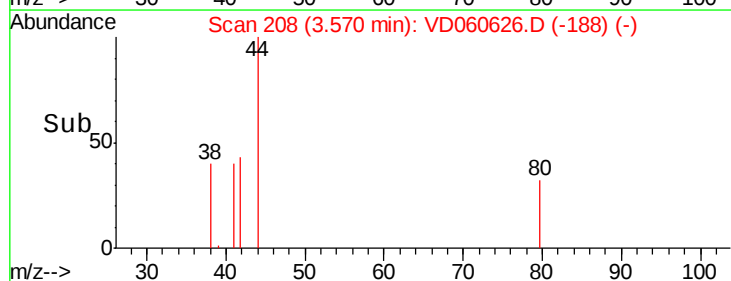
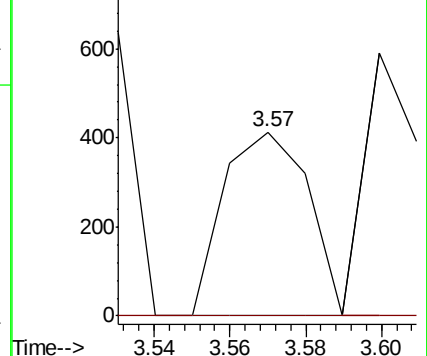
43 100

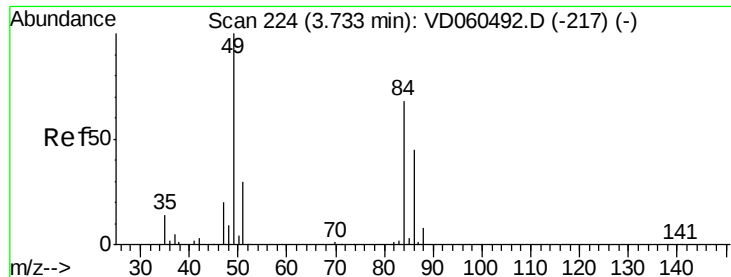
74 0.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

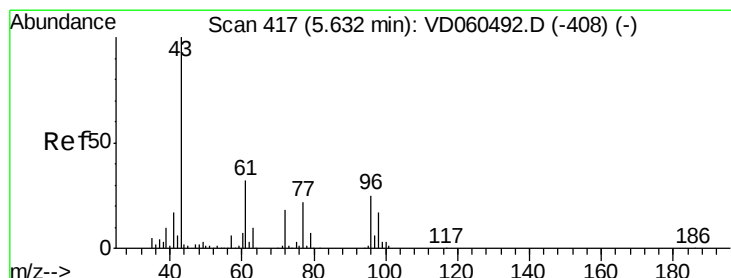
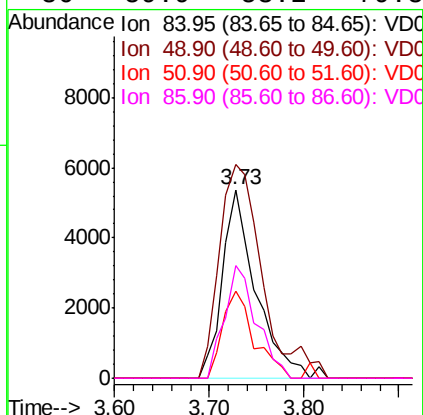
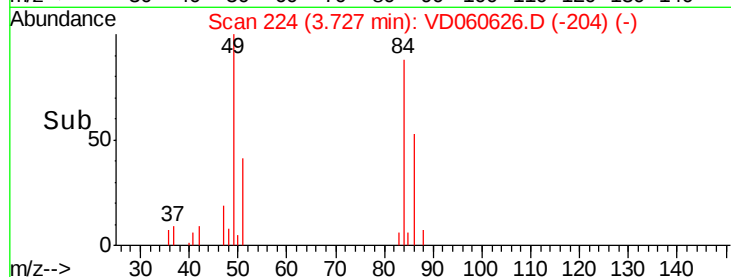
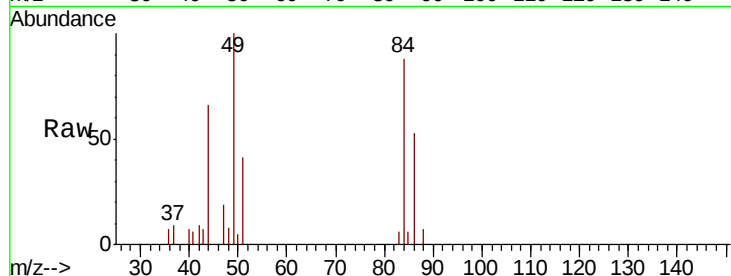




#20
Methvlene Chloride
Concen: 1.468 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.00 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

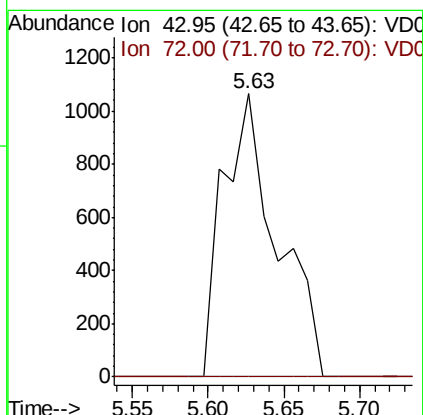
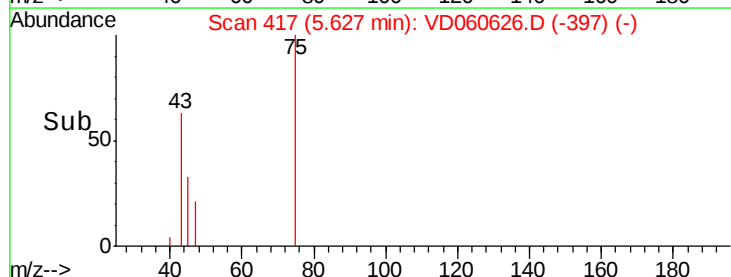
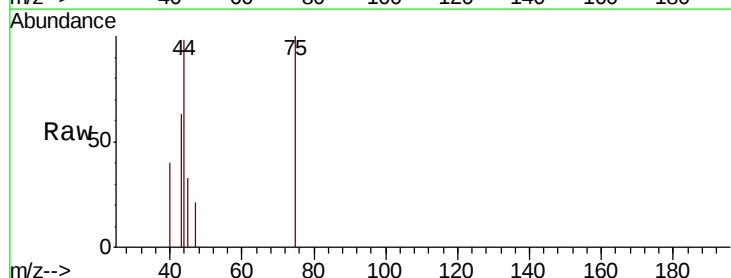
Instrument :
MSVOA_D
ClientSampleId :
EB06_12-14RE

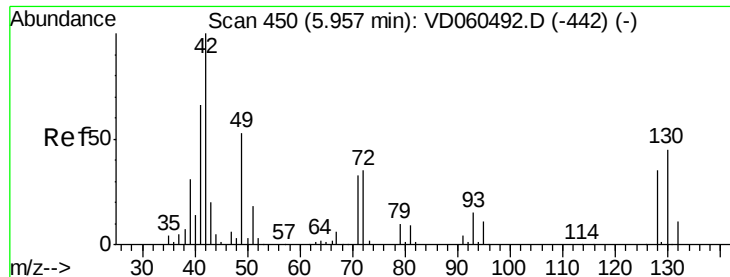
Tot Ion: 84 Resp: 13287
Ion Ratio Lower Upper
84 100
49 113.2 117.2 175.8#
51 46.1 35.3 52.9
86 59.9 53.2 79.8



#25
2-Butanone
Concen: 5.381 ug/l
RT: 5.63 min Scan# 417
Delta R.T. -0.01 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

Tgt Ion: 43 Resp: 2637
Ion Ratio Lower Upper
43 100
72 0.0 14.6 21.8#

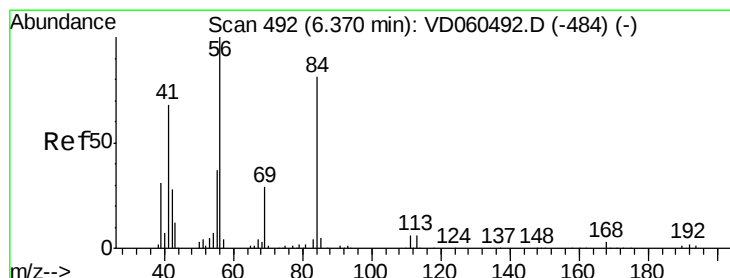
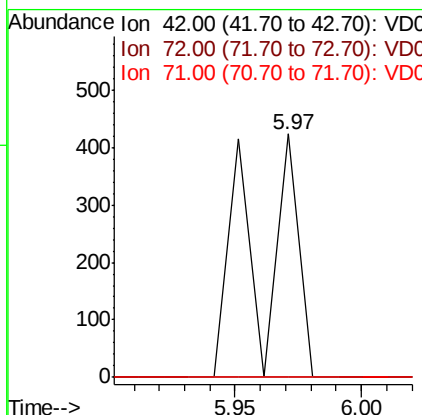
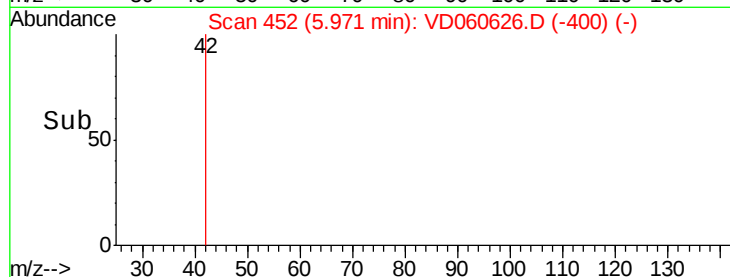
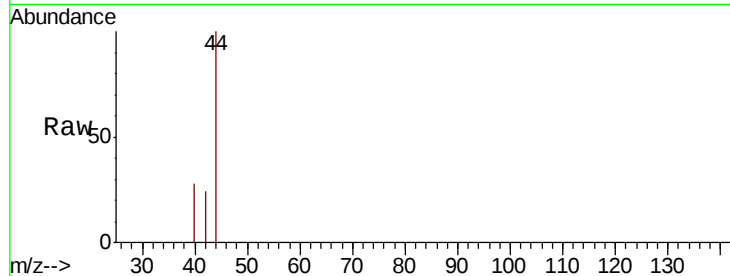




#29
Tetrahydrofuran
Concen: 1.787 ug/l
RT: 5.97 min Scan# 452
Delta R.T. 0.01 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

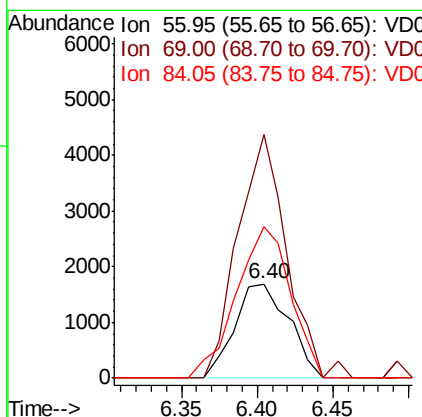
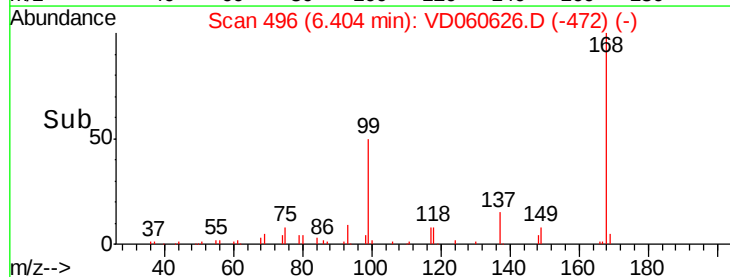
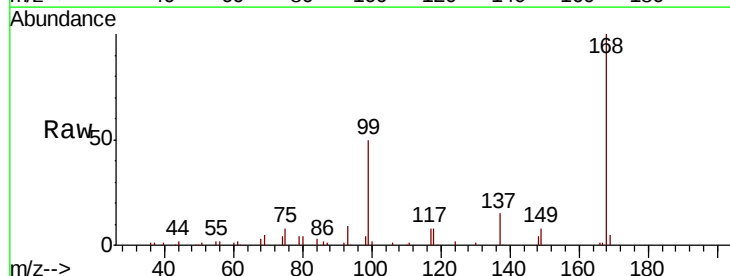
Instrument :
MSVOA_D
ClientSampleId :
EB06_12-14RE

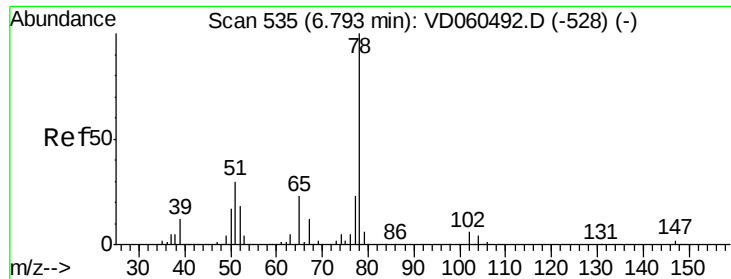
Tot Ion: 42 Resp: 496
Ion Ratio Lower Upper
42 100
72 0.0 28.0 42.0#
71 0.0 27.2 40.8#



#31
Cyclohexane
Concen: Below Cal
RT: 6.40 min Scan# 496
Delta R.T. 0.03 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

Tgt Ion: 56 Resp: 4189
Ion Ratio Lower Upper
56 100
69 259.4 22.8 34.2#
84 161.2 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.78 min Scan# 534

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

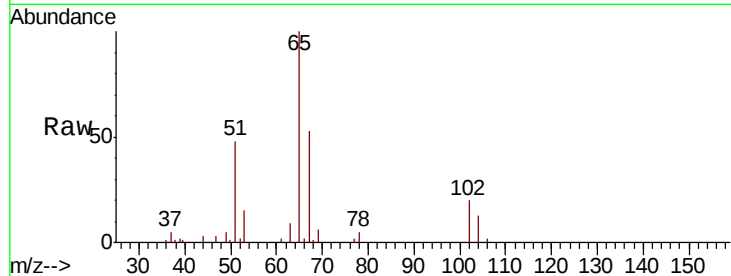
EB06_12-14RE

Tot Ion: 65 Resp: 136693

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.78

50000

40000

30000

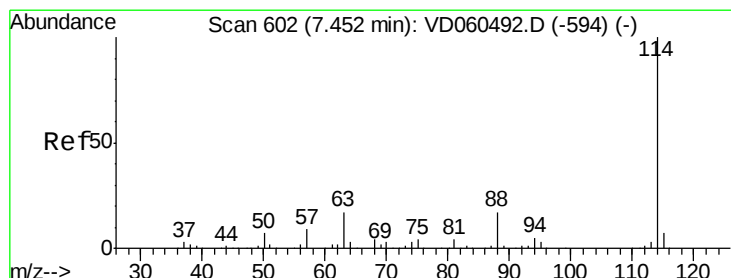
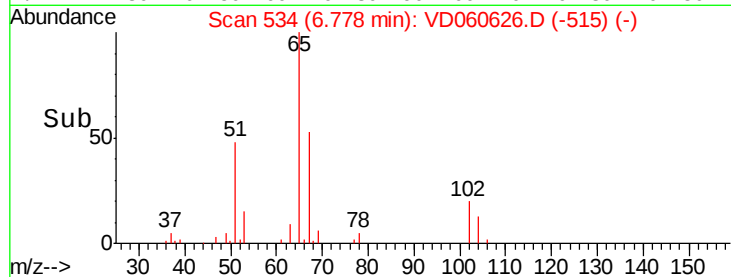
20000

10000

0

6.70 6.80 6.90 7.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

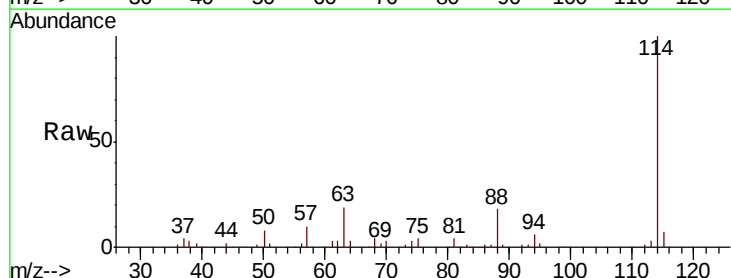
Tgt Ion:114 Resp: 368037

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.2

88 18.1 0.0 35.0



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

200000

150000

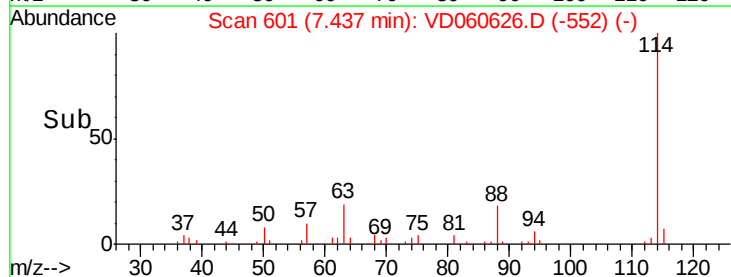
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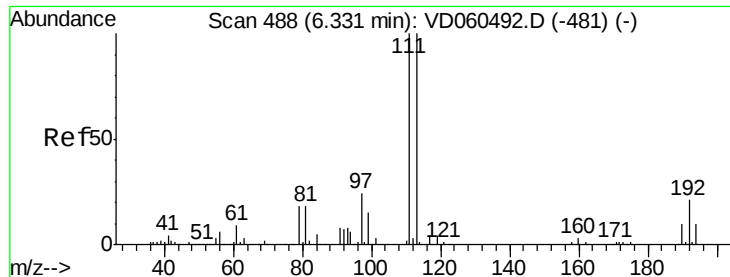
50000

0

7.30 7.40 7.50 7.60 7.70

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 487

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :
MSVOA_D

ClientSampleId :
EB06_12-14RE

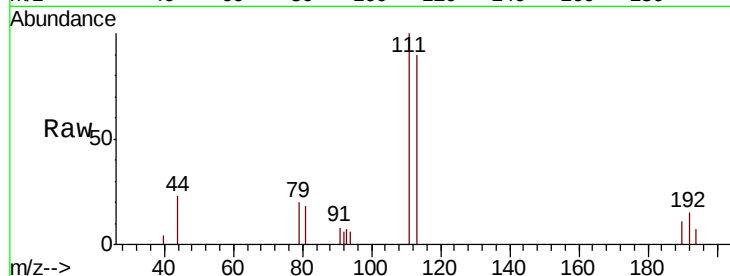
Tot Ion:113 Resp: 20029

Ion Ratio Lower Upper

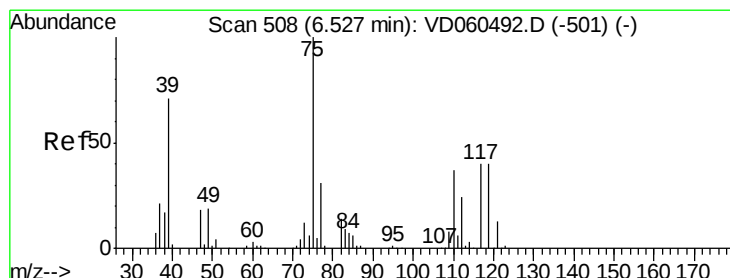
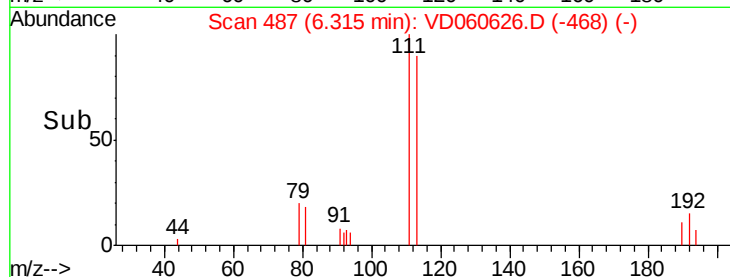
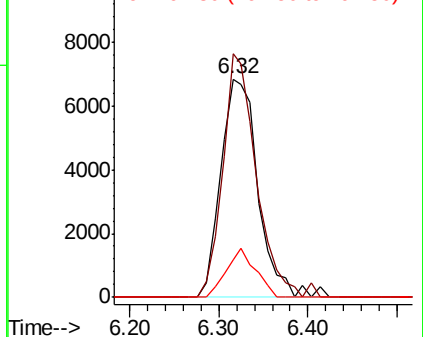
113 100

111 111.7 80.2 120.4

192 17.1 16.6 24.8



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.440 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

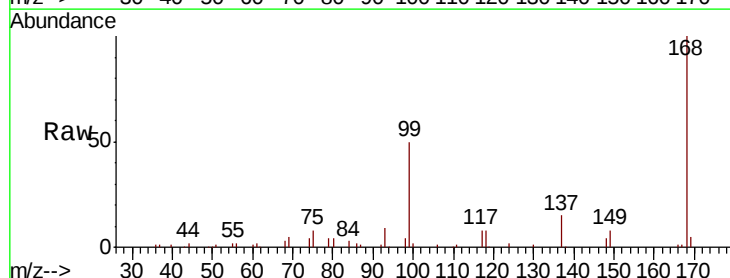
Tgt Ion: 75 Resp: 15973

Ion Ratio Lower Upper

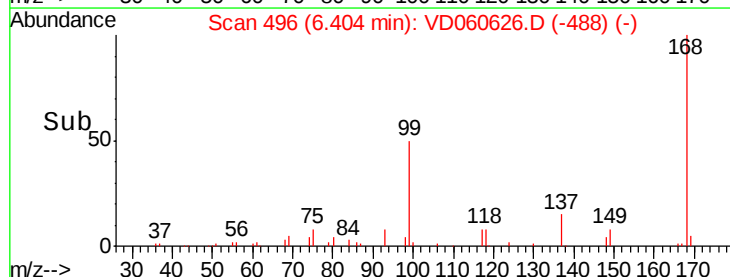
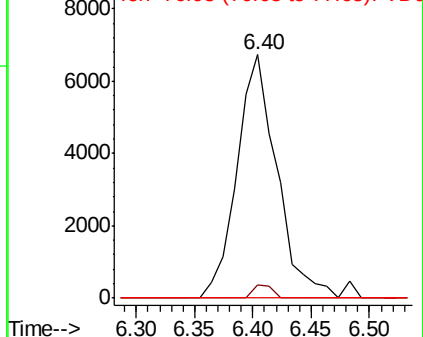
75 100

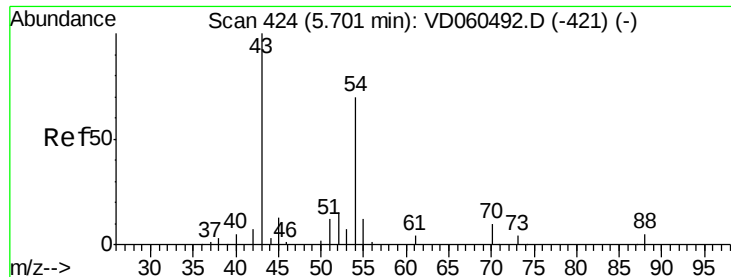
110 5.5 18.3 54.8#

77 0.0 24.6 37.0#



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

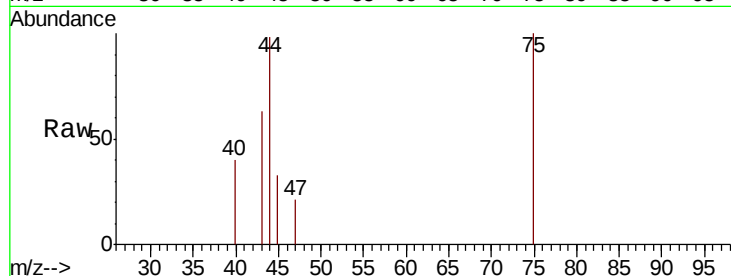




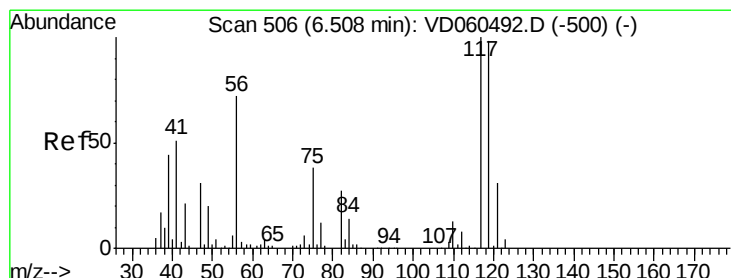
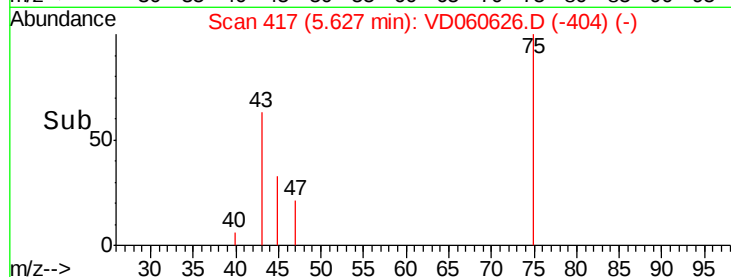
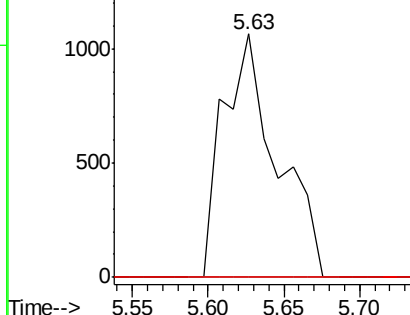
#37
Ethyl Acetate
Concen: 1.690 ug/l
RT: 5.63 min Scan# 417
Delta R.T. -0.07 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

Instrument :
MSVOA_D
ClientSampleId :
EB06_12-14RE

Tot Ion: 43 Resp: 2637
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#

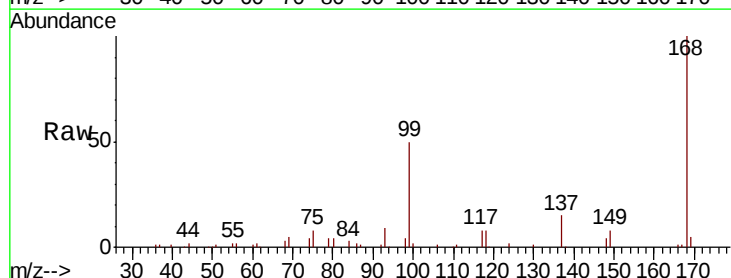


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

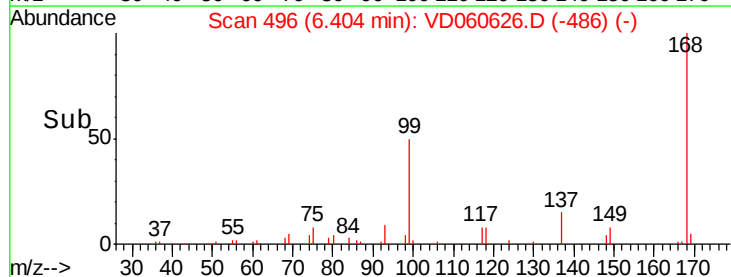
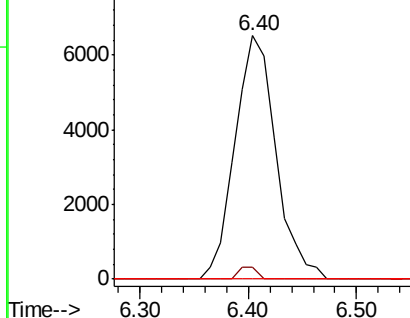


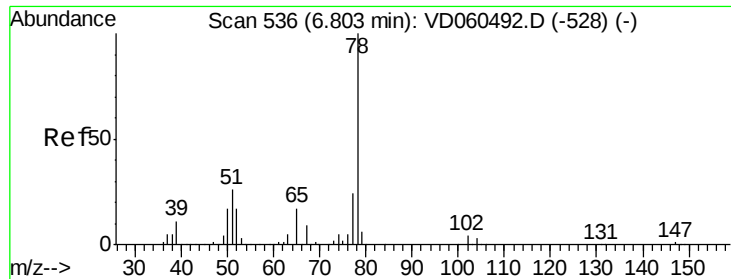
#38
Carbon Tetrachloride
Concen: 5.318 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.10 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

Tgt Ion: 117 Resp: 17176
Ion Ratio Lower Upper
117 100
119 4.8 76.8 115.2#
121 0.0 24.4 36.6#



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





#40

Benzene

Concen: 1.064 ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

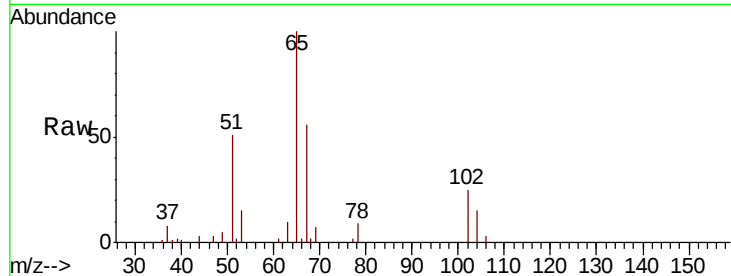
EB06_12-14RE

Tot Ion: 78 Resp: 9779

Ion Ratio Lower Upper

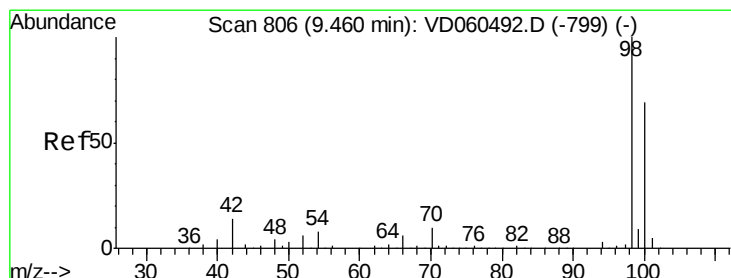
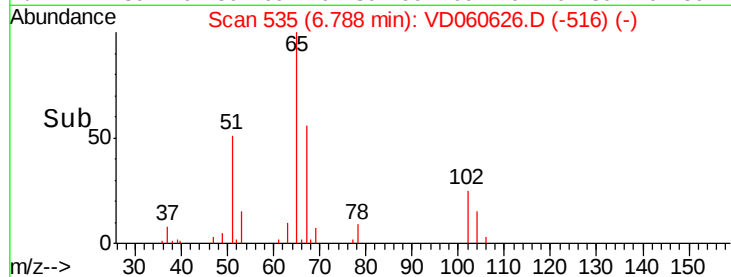
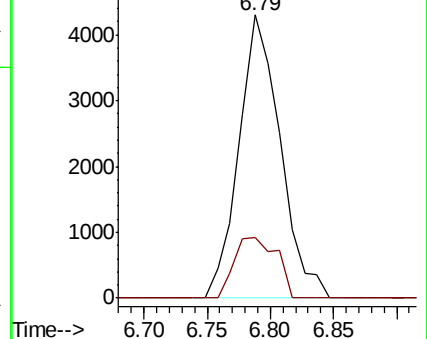
78 100

77 21.4 18.9 28.3



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.45 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD060626.D

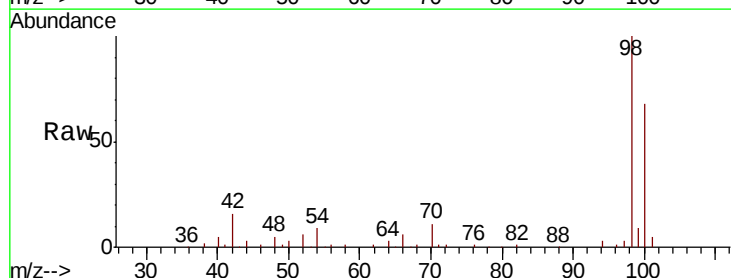
Acq: 18 Dec 2018 17:35

Tgt Ion: 98 Resp: 290681

Ion Ratio Lower Upper

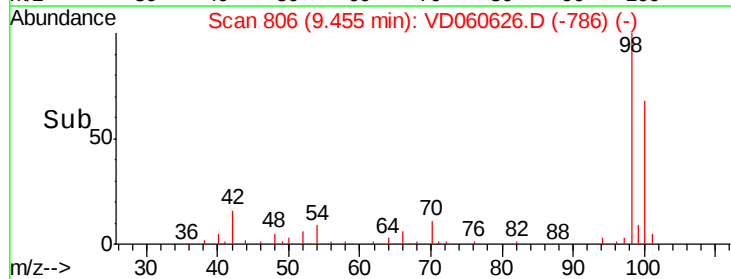
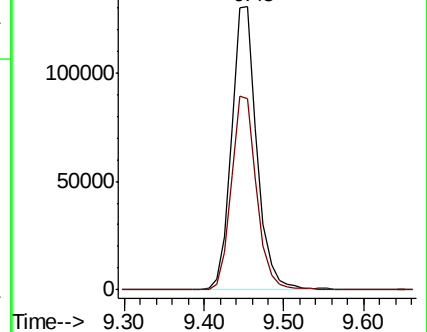
98 100

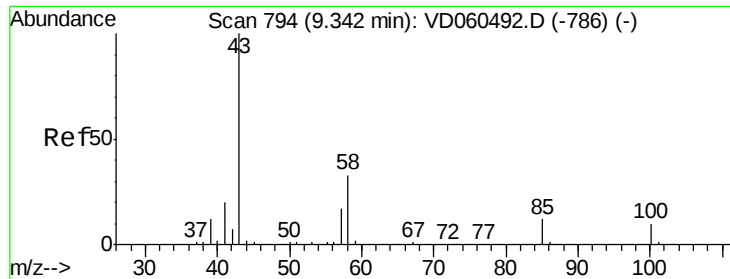
100 67.7 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.244 ug/l

RT: 9.44 min Scan# 805

Delta R.T. 0.10 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

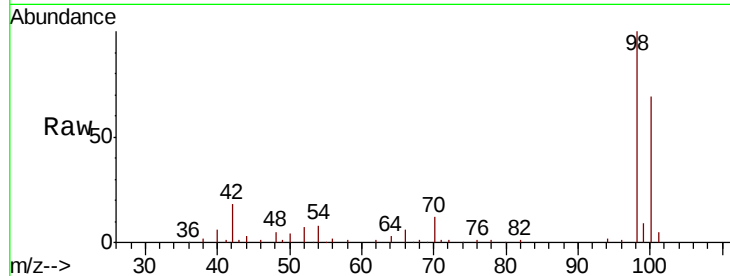
EB06_12-14RE

Tot Ion: 43 Resp: 1490

Ion Ratio Lower Upper

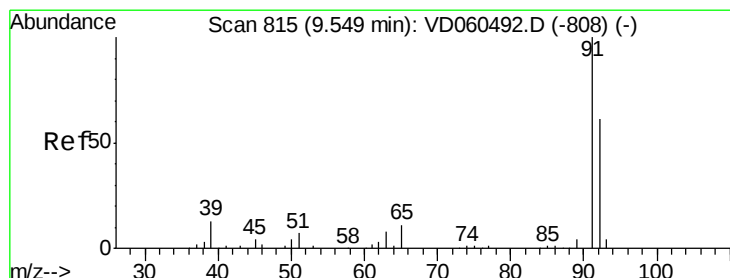
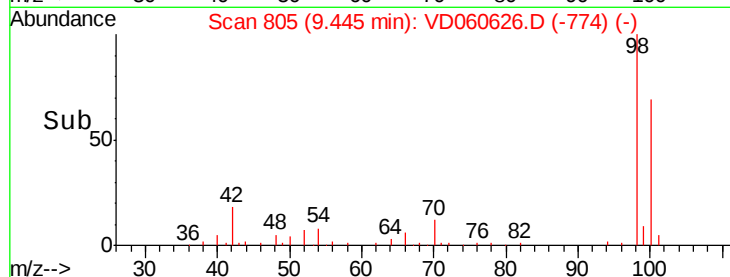
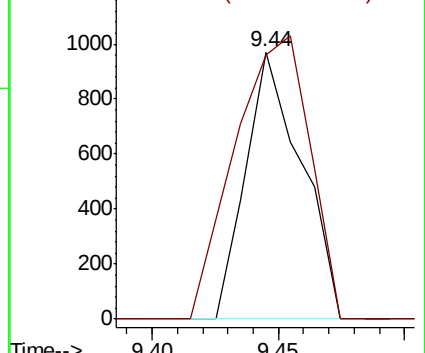
43 100

58 99.0 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 11.045 ug/l

RT: 9.54 min Scan# 815

Delta R.T. -0.01 min

Lab File: VD060626.D

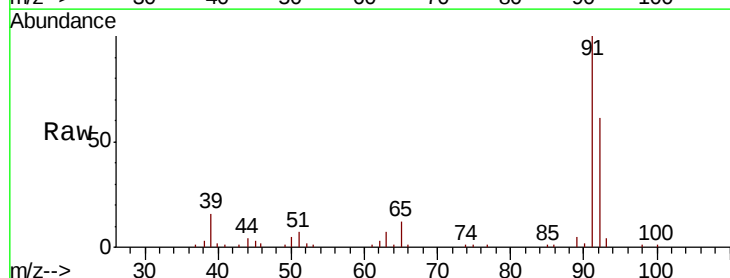
Acq: 18 Dec 2018 17:35

Tgt Ion: 92 Resp: 63469

Ion Ratio Lower Upper

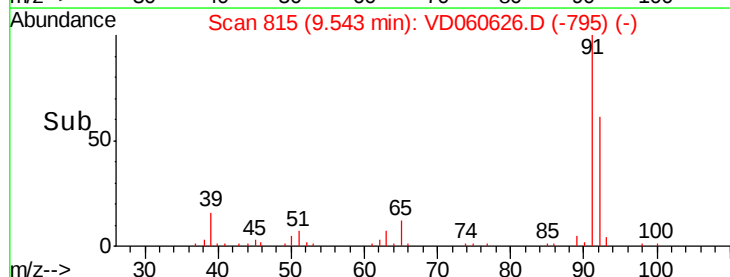
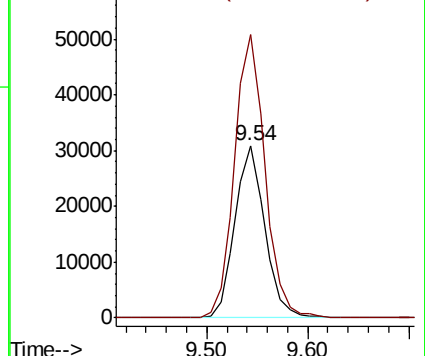
92 100

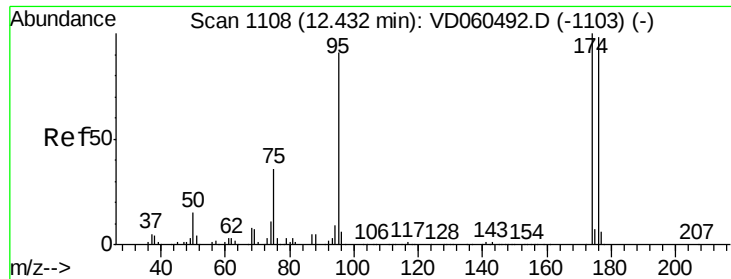
91 164.0 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

EB06_12-14RE

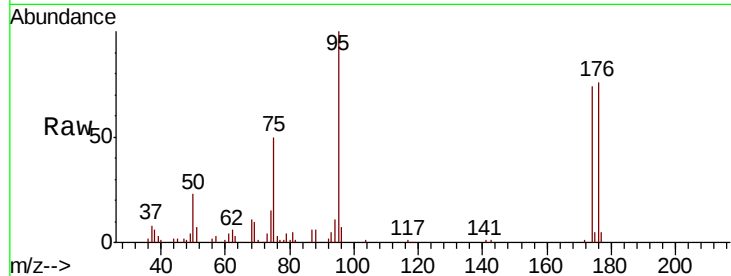
Tot Ion: 95 Resp: 108878

Ion Ratio Lower Upper

95 100

174 74.3 0.0 219.4

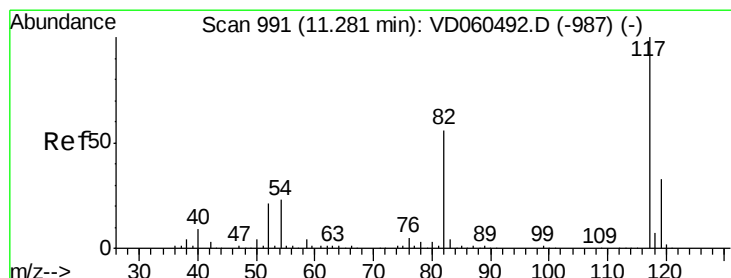
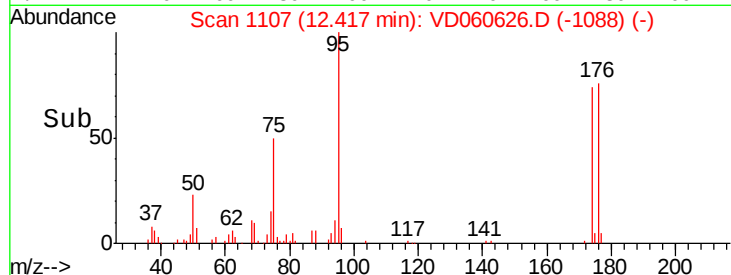
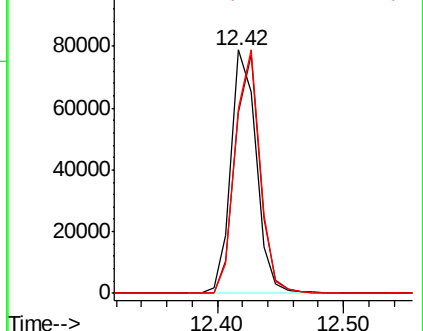
176 75.7 0.0 214.6



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: 11.28 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

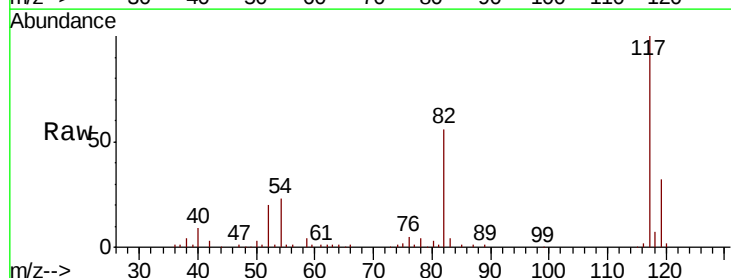
Tgt Ion: 117 Resp: 326752

Ion Ratio Lower Upper

117 100

82 56.1 45.2 67.8

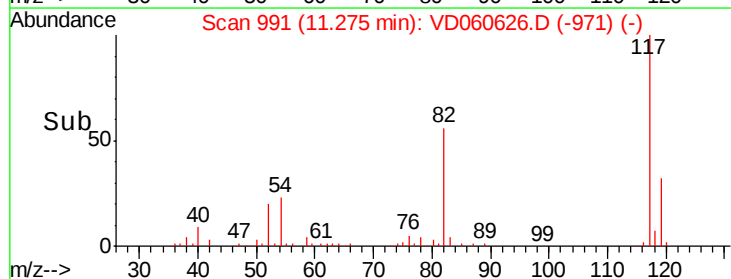
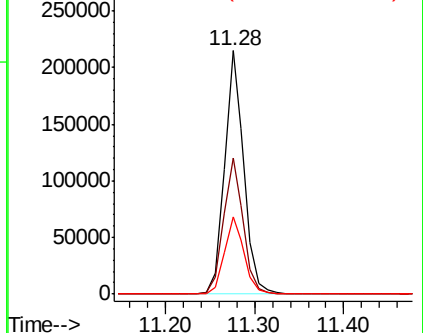
119 31.8 26.1 39.1

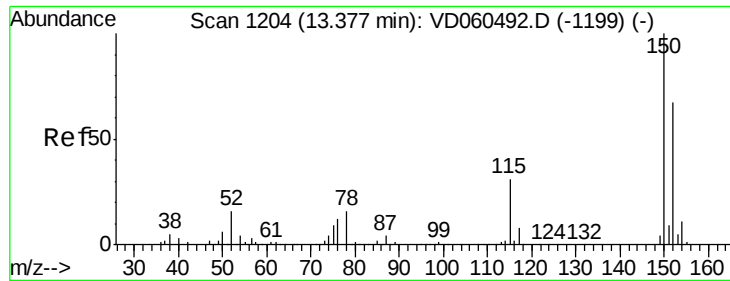


Abundance Ion 116.95 (116.65 to 117.65): V

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# 1204

Delta R.T. -0.01 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

Instrument :

MSVOA_D

ClientSampleId :

EB06_12-14RE

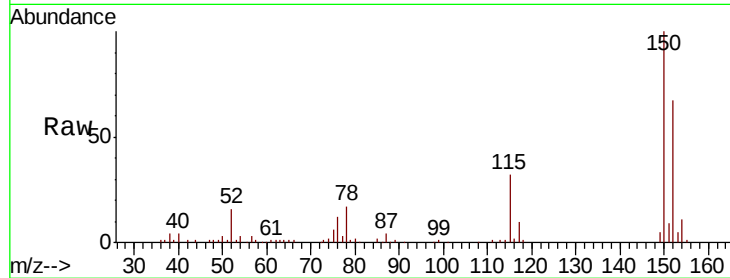
Tot Ion:152 Resp: 158297

Ion Ratio Lower Upper

152 100

115 47.8 24.6 74.0

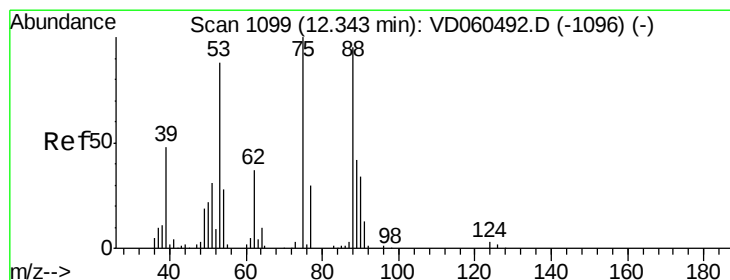
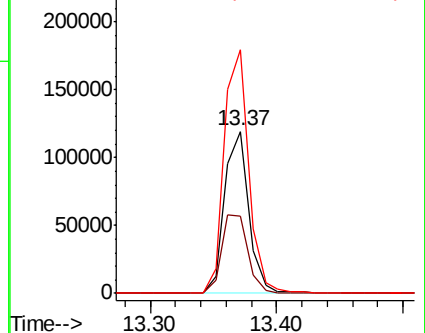
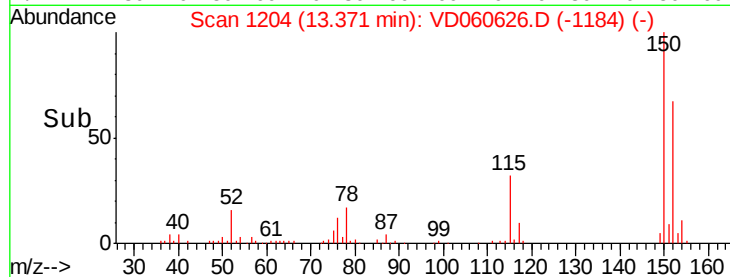
150 150.4 0.0 309.0



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: 100.225 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060626.D

Acq: 18 Dec 2018 17:35

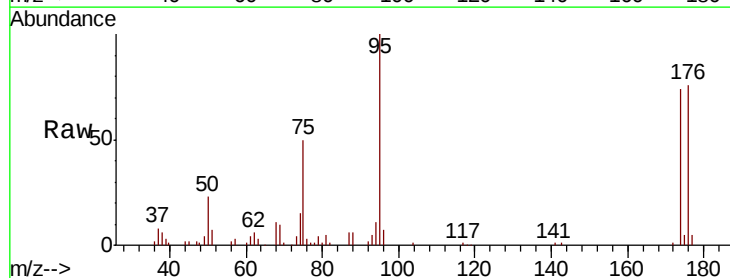
Tgt Ion: 75 Resp: 50137

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

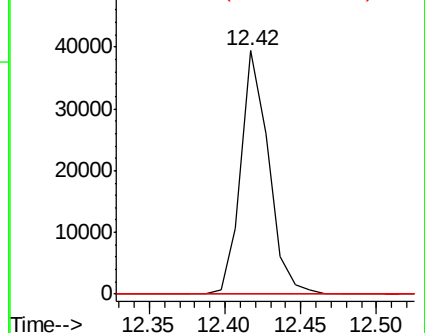
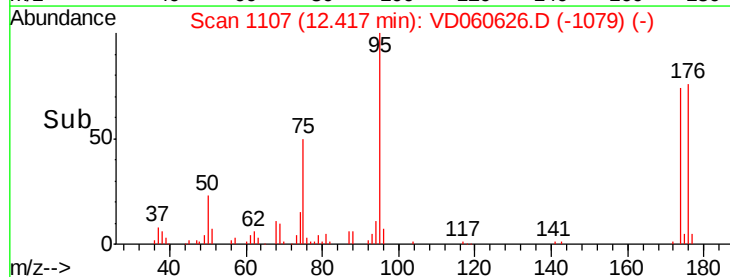
89 0.0 33.6 50.4#

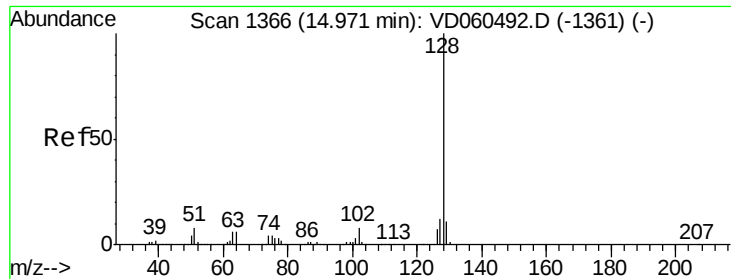


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95
Naphthalene
Concen: 10.168 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060626.D
Acq: 18 Dec 2018 17:35

Instrument :
MSVOA_D
ClientSampleId :
EB06_12-14RE

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.8	14.8
129	12.0	8.6	13.0

