

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121218\
 Data File : VD060550.D
 Acq On : 12 Dec 2018 16:42
 Operator : VA/AP
 Sample : J6194-05
 Misc : 6.64/05ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-03-121118

Quant Time: Dec 13 00:20:40 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

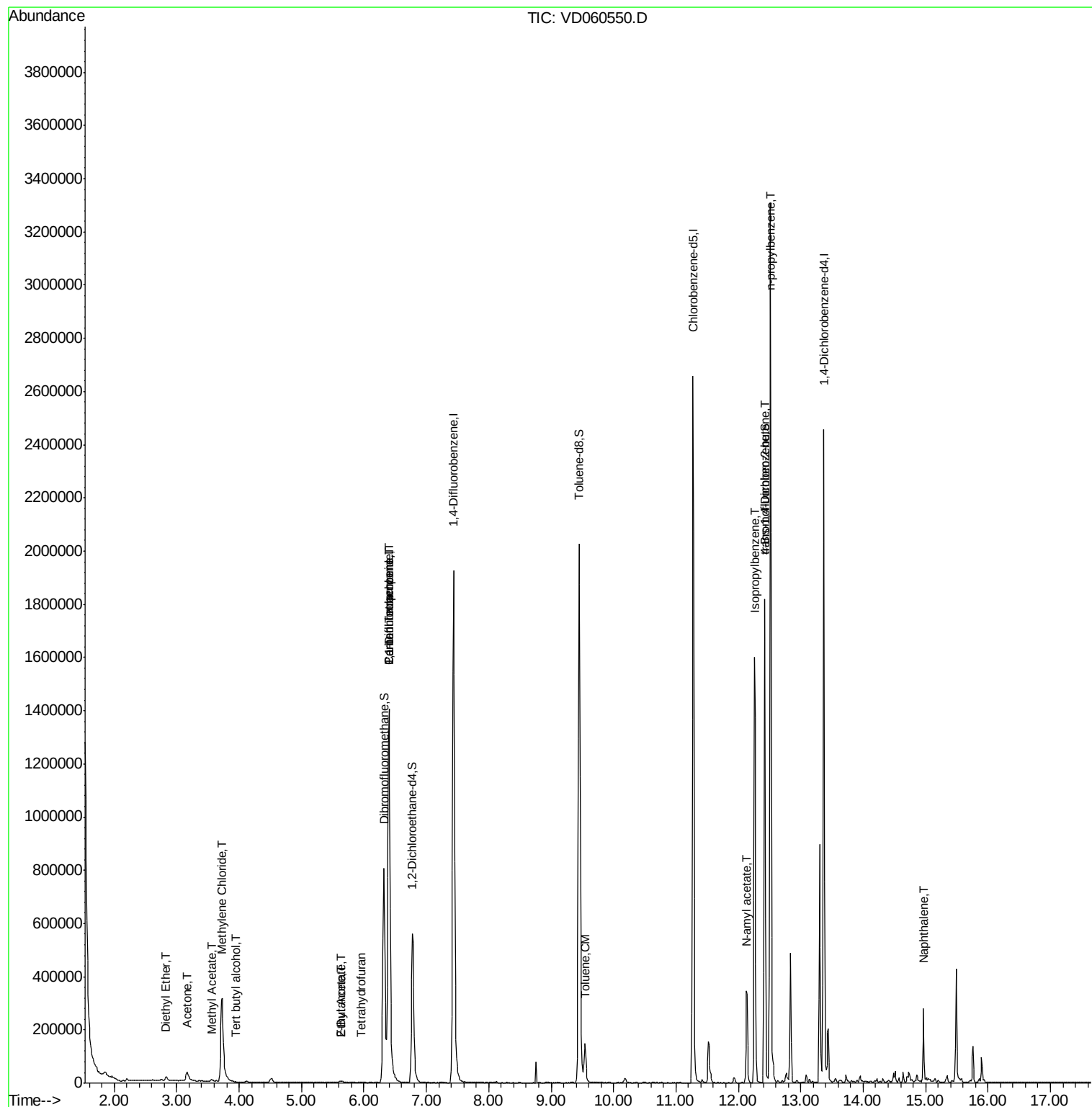
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1404248	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	2019880	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1443136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	593966	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.78	65	486948	48.92	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	6.32	113	663072	44.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.38%	
50) Toluene-d8	9.44	98	1692849	39.43	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	78.86%	
62) 4-Bromofluorobenzene	12.42	95	556496	36.22	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	72.44%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.59	85	2103	Below Cal		96
8) Diethyl Ether	2.84	74	3548	1.545 ug/l		76
11) Tert butyl alcohol	3.96	59	739	1.828 ug/l #		73
16) Acetone	3.16	43	78346	49.107 ug/l		97
18) Methyl Acetate	3.56	43	17914	4.724 ug/l		99
20) Methylene Chloride	3.73	84	214455	11.165 ug/l		96
25) 2-Butanone	5.62	43	9127	2.908 ug/l #		91
29) Tetrahydrofuran	5.94	42	2905	1.634 ug/l #		53
31) Cyclohexane	6.39	56	27756	Below Cal #		1
36) 1,1-Dichloropropene	6.40	75	102165	5.175 ug/l #		48
37) Ethyl Acetate	5.62	43	9127	1.066 ug/l #		68
38) Carbon Tetrachloride	6.40	117	112715	6.359 ug/l #		16
52) Toluene	9.54	92	74639	2.367 ug/l		92
73) Isopropylbenzene	12.26	105	59476	1.415 ug/l #		69
74) N-amyl acetate	12.13	43	11390	1.121 ug/l #		41
78) n-propylbenzene	12.51	91	284882	5.362 ug/l #		56
81) trans-1,4-Dichloro-2-buten	12.42	75	230128	122.602 ug/l #		14
89) n-Butylbenzene	13.65	91	3724	Below Cal #		91
95) Naphthalene	14.96	128	153616	10.104 ug/l		98

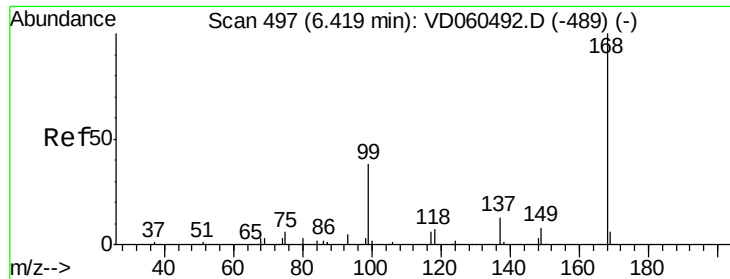
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

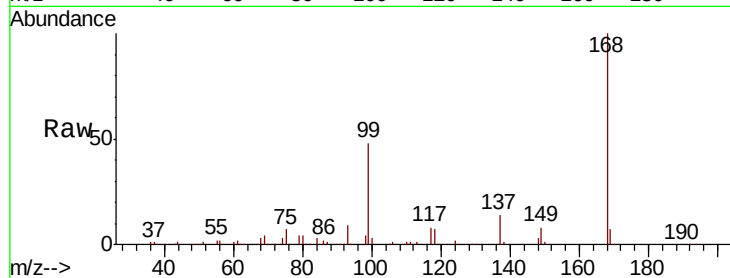
OK-03-121118

Tot Ion:168 Resp: 1404248

Ion Ratio Lower Upper

168 100

99 48.4 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

500000

400000

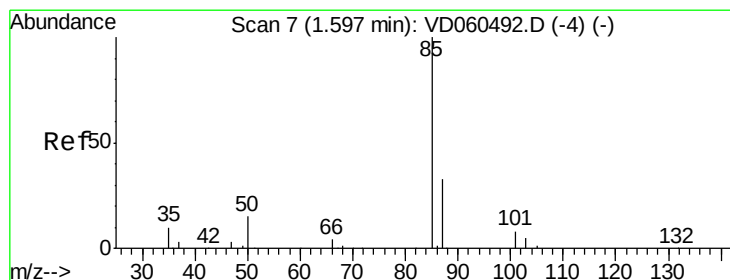
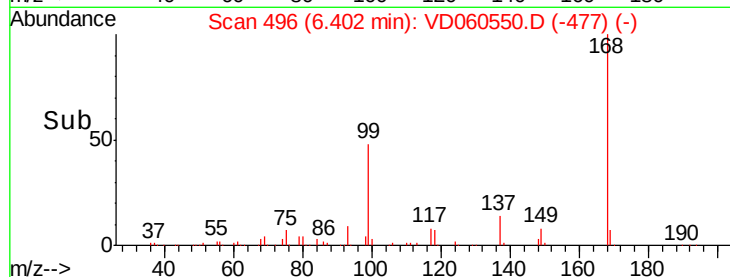
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.59 min Scan# 7

Delta R.T. -0.01 min

Lab File: VD060550.D

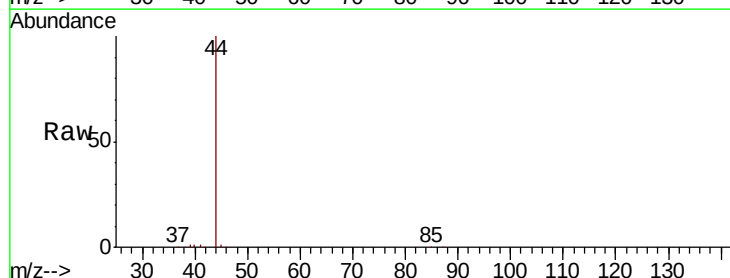
Acq: 12 Dec 2018 16:42

Tgt Ion: 85 Resp: 2103

Ion Ratio Lower Upper

85 100

87 30.9 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

1200

1000

800

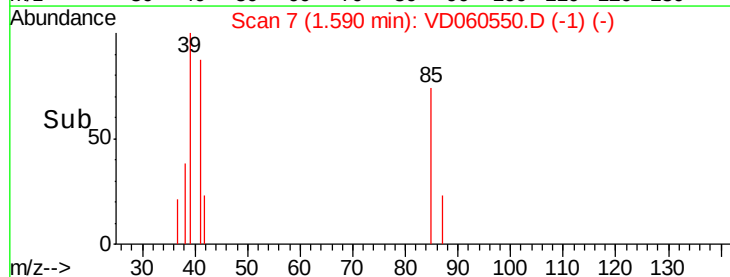
600

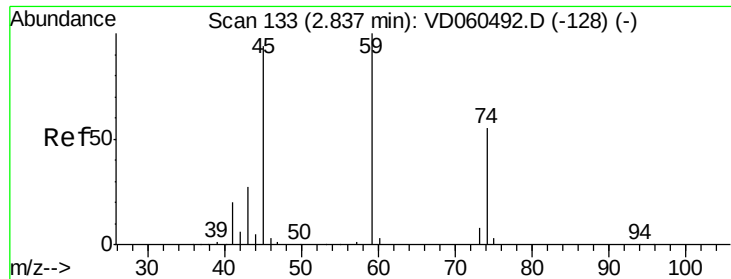
400

200

0

Time-->





#8

Diethyl Ether

Concen: 1.545 ug/l

RT: 2.84 min Scan# 134

Delta R.T. 0.00 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

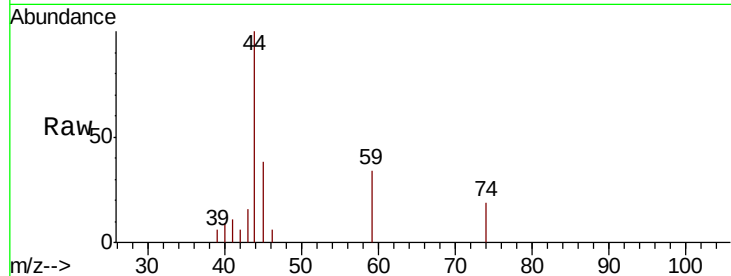
OK-03-121118

Tot Ion: 74 Resp: 3548

Ion Ratio Lower Upper

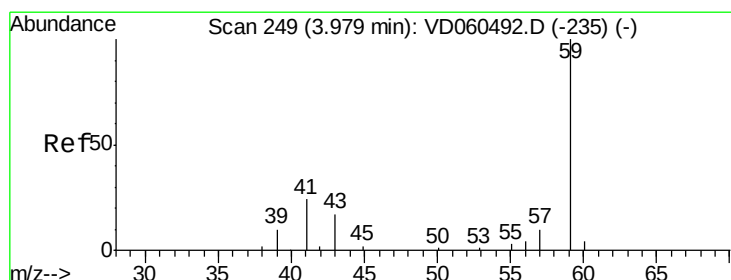
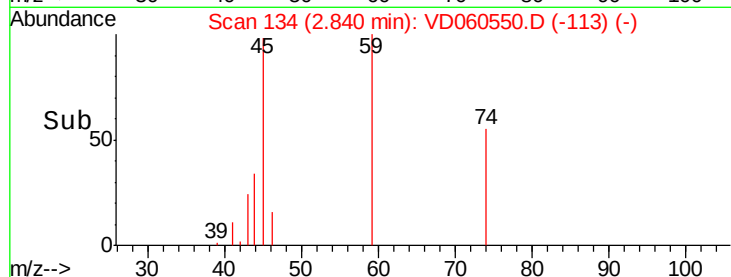
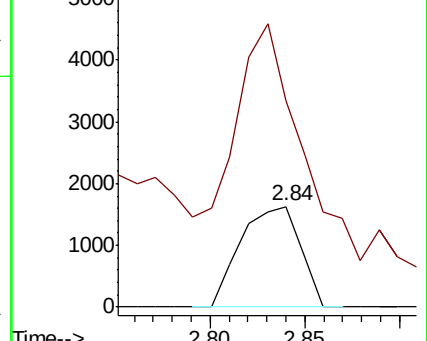
74 100

45 205.0 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.828 ug/l

RT: 3.96 min Scan# 248

Delta R.T. -0.02 min

Lab File: VD060550.D

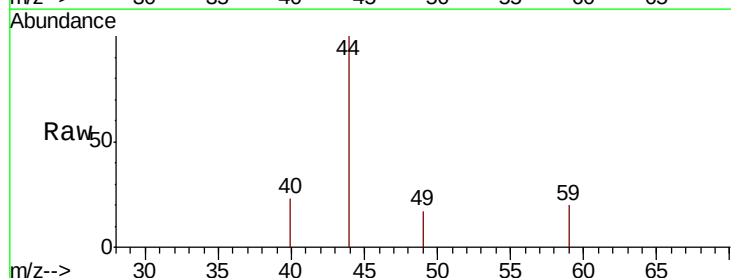
Acq: 12 Dec 2018 16:42

Tgt Ion: 59 Resp: 739

Ion Ratio Lower Upper

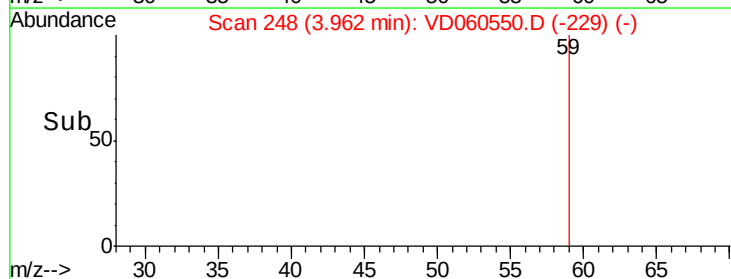
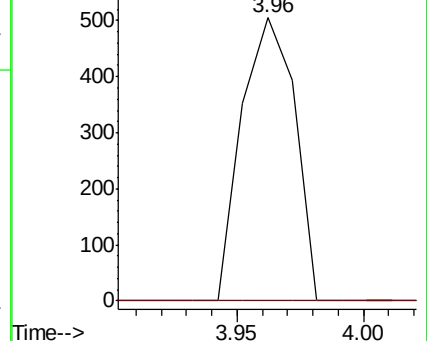
59 100

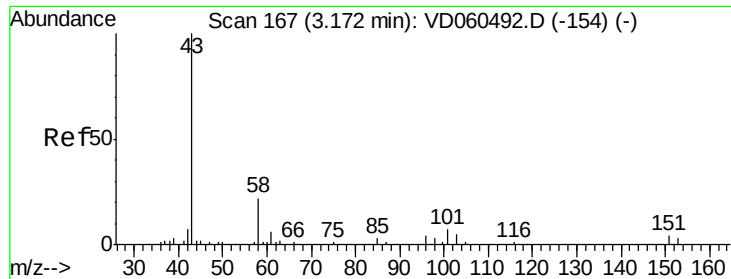
57 0.0 8.1 12.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 49.107 ug/l

RT: 3.16 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

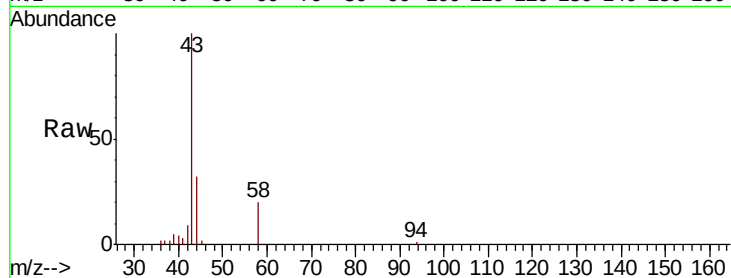
OK-03-121118

Tot Ion: 43 Resp: 78346

Ion Ratio Lower Upper

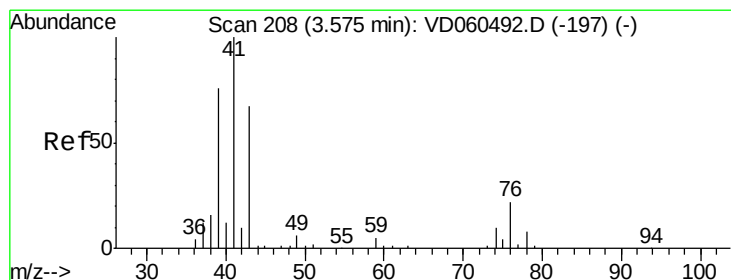
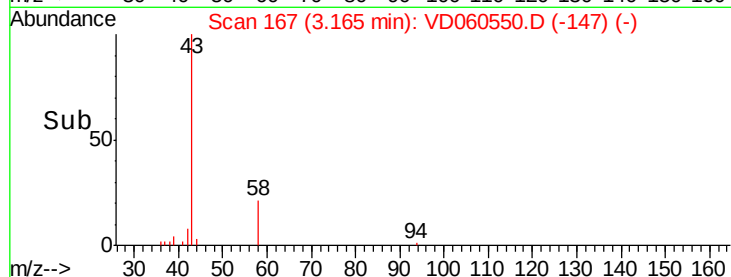
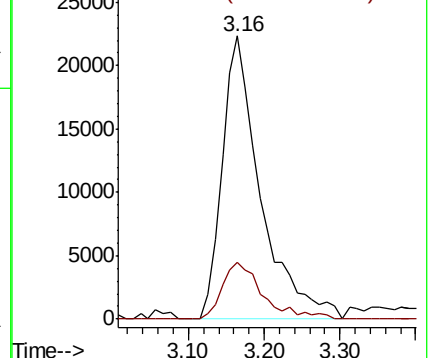
43 100

58 20.2 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: 4.724 ug/l

RT: 3.56 min Scan# 207

Delta R.T. -0.02 min

Lab File: VD060550.D

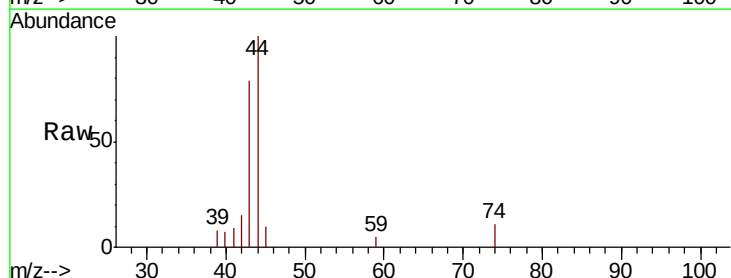
Acq: 12 Dec 2018 16:42

Tgt Ion: 43 Resp: 17914

Ion Ratio Lower Upper

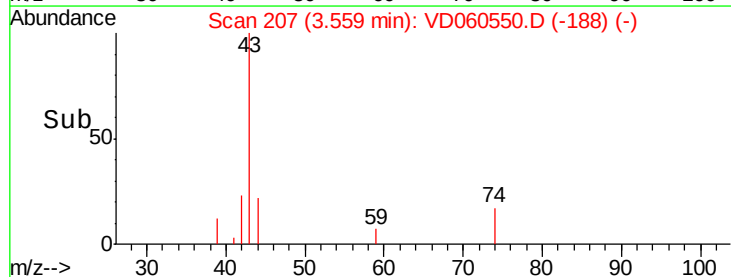
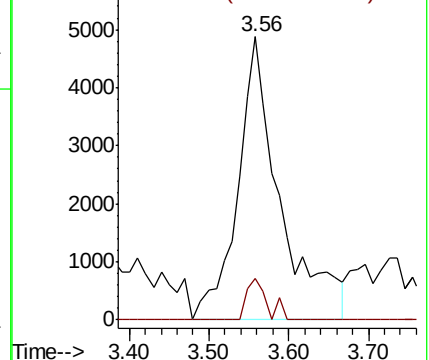
43 100

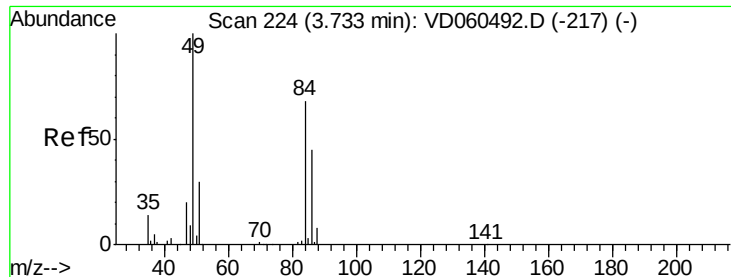
74 14.5 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

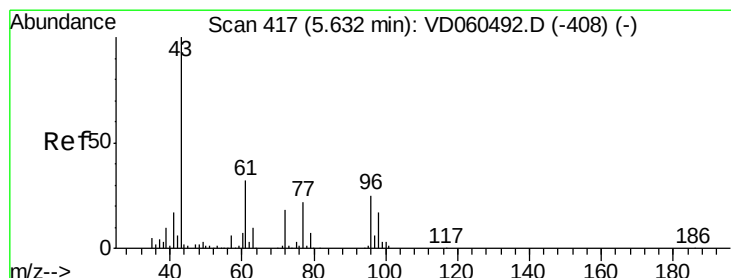
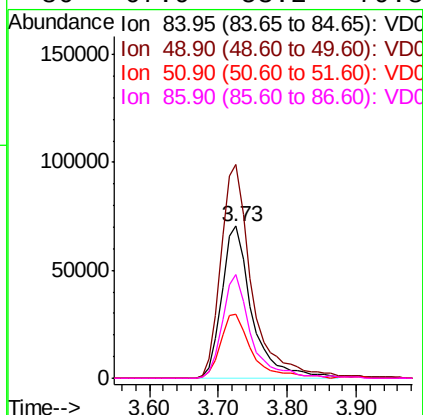
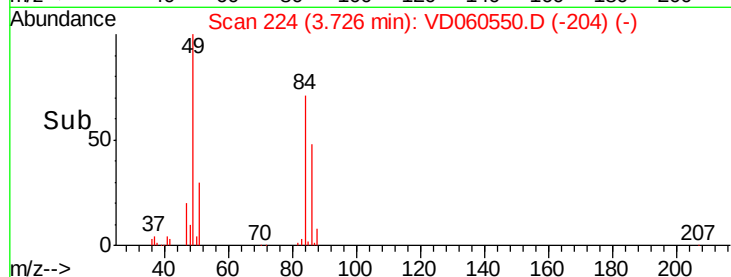
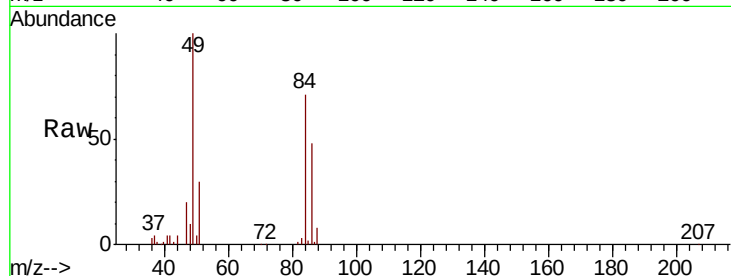




#20
Methylene Chloride
Concen: 11.165 ug/l
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

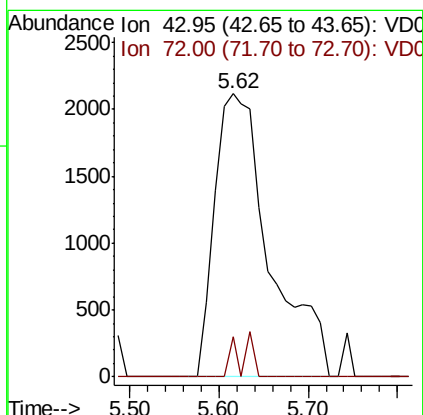
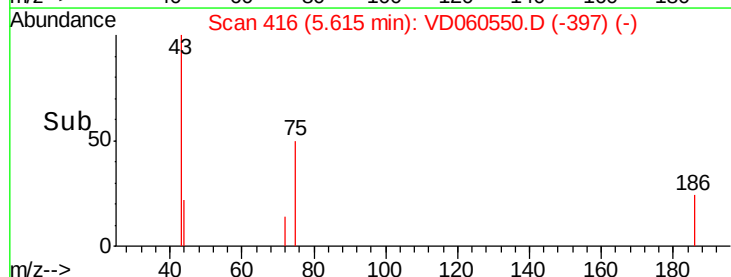
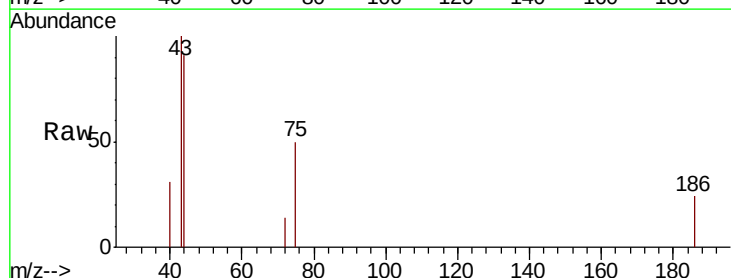
Instrument :
MSVOA_D
ClientSampleId :
OK-03-121118

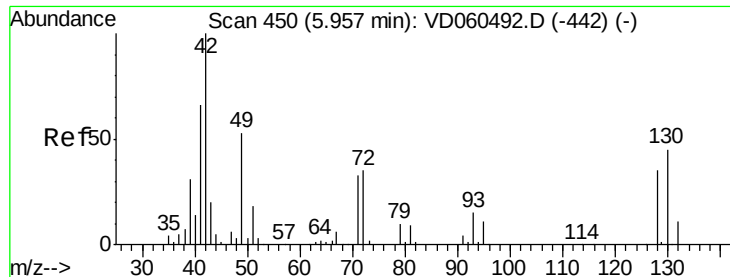
Tot Ion: 84 Resp: 214455
Ion Ratio Lower Upper
84 100
49 140.4 117.2 175.8
51 41.9 35.3 52.9
86 67.9 53.2 79.8



#25
2-Butanone
Concen: 2.908 ug/l
RT: 5.62 min Scan# 416
Delta R.T. -0.02 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

Tgt Ion: 43 Resp: 9127
Ion Ratio Lower Upper
43 100
72 14.3 14.6 21.8#

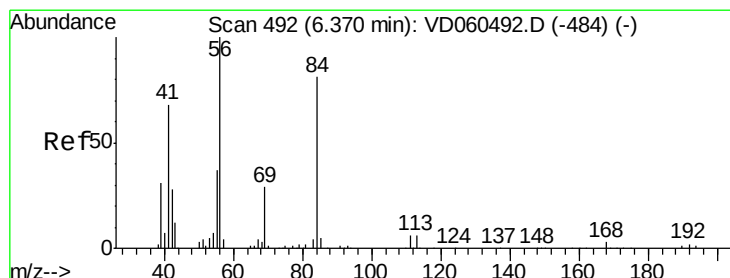
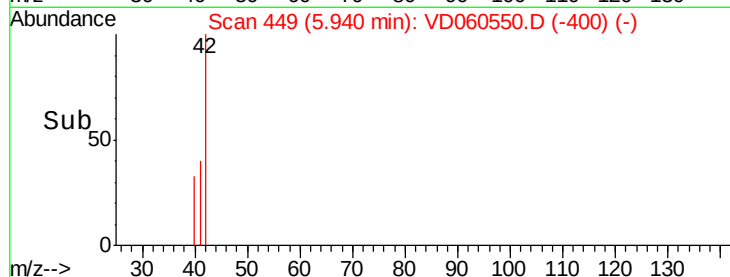
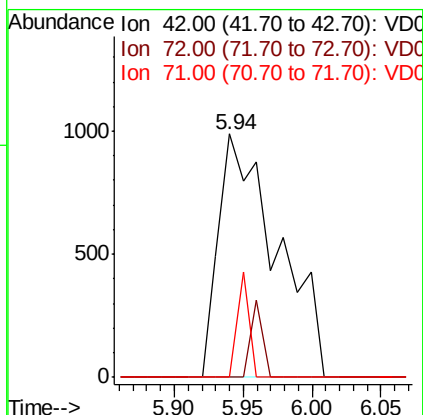
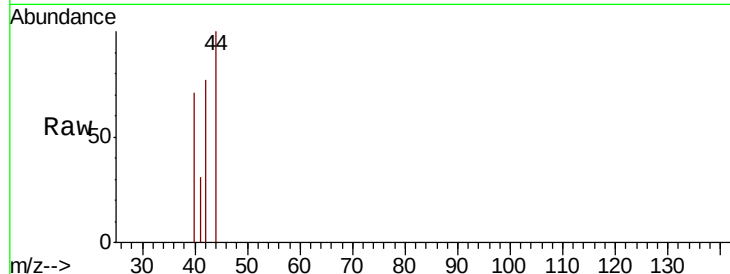




#29
Tetrahydrofuran
Concen: 1.634 ug/l
RT: 5.94 min Scan# 449
Delta R.T. -0.02 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

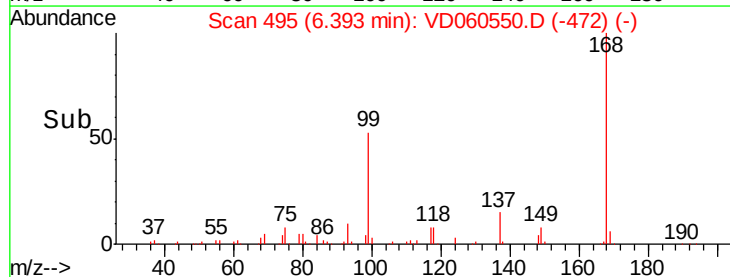
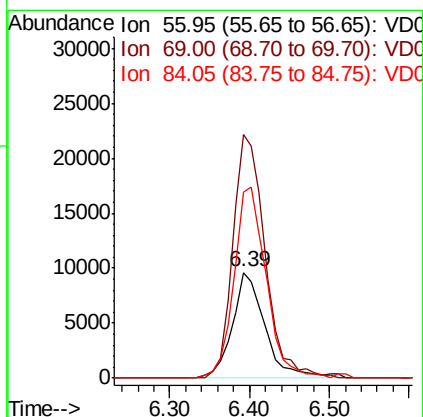
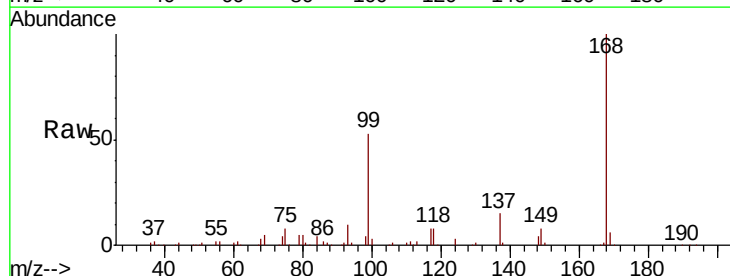
Instrument :
MSVOA_D
ClientSampleId :
OK-03-121118

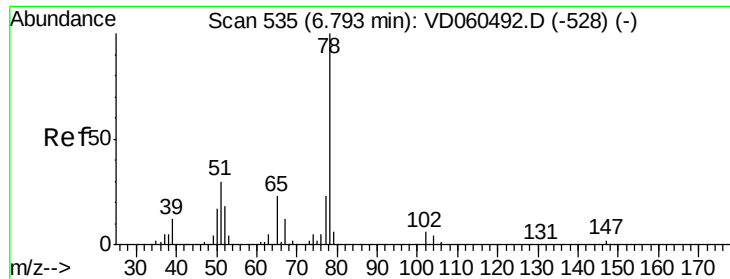
Tot Ion: 42 Resp: 2905
Ion Ratio Lower Upper
42 100
72 6.4 28.0 42.0#
71 8.7 27.2 40.8#



#31
Cyclohexane
Concen: Below Cal
RT: 6.39 min Scan# 495
Delta R.T. 0.02 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

Tgt Ion: 56 Resp: 27756
Ion Ratio Lower Upper
56 100
69 230.0 22.8 34.2#
84 175.8 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: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

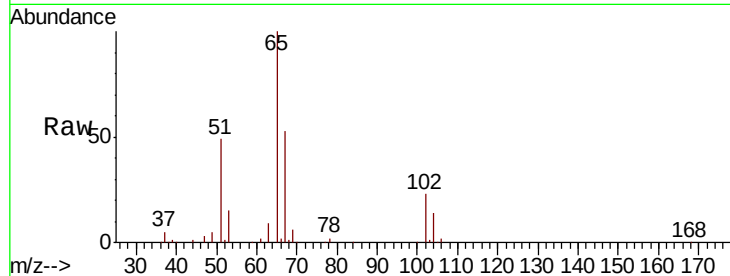
OK-03-121118

Tot Ion: 65 Resp: 486948

Ion Ratio Lower Upper

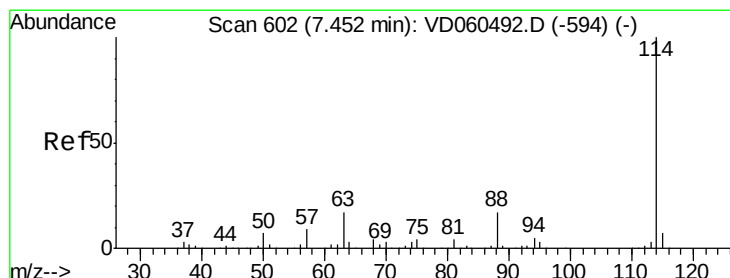
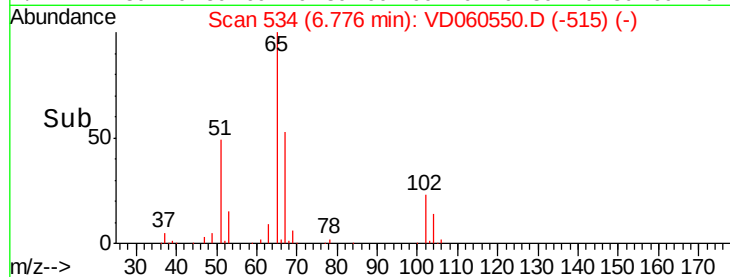
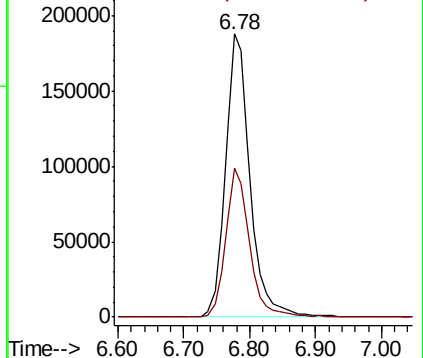
65 100

67 52.7 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

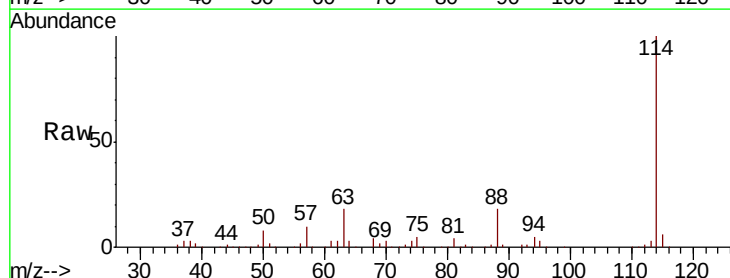
Tgt Ion: 114 Resp: 2019880

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.2

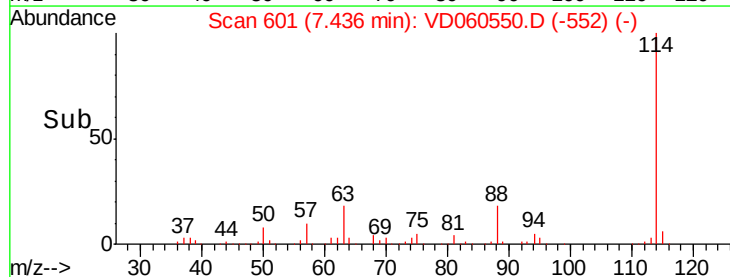
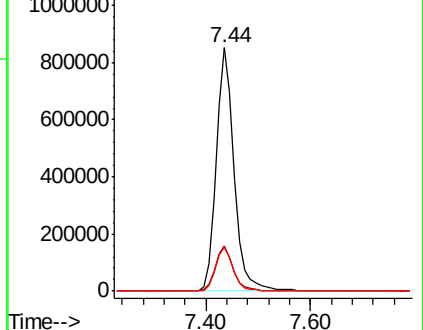
88 18.0 0.0 35.0

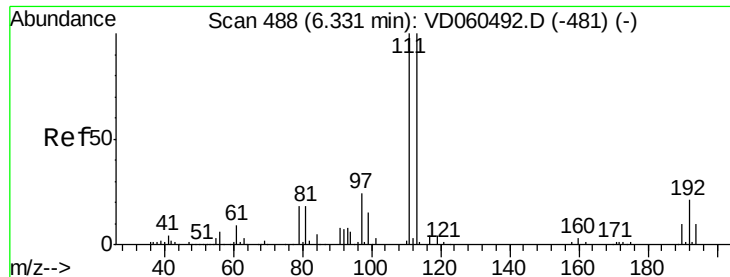


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.32 min Scan# 488

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

OK-03-121118

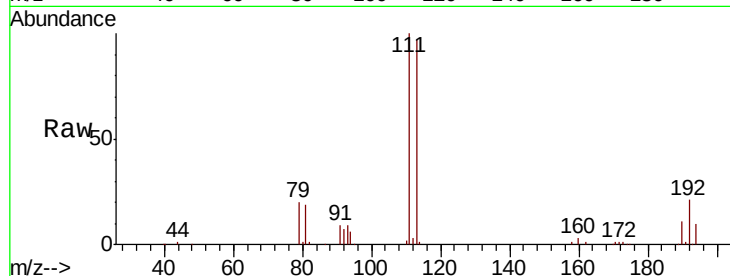
Tot Ion:113 Resp: 663072

Ion Ratio Lower Upper

113 100

111 103.1 80.2 120.4

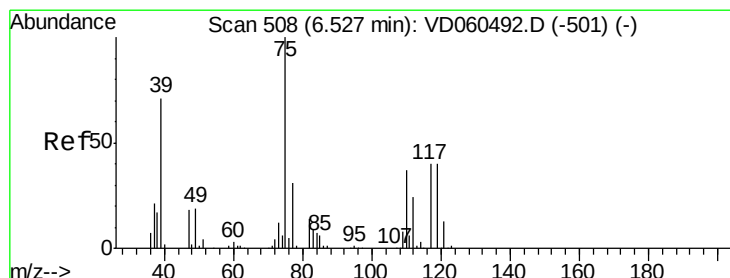
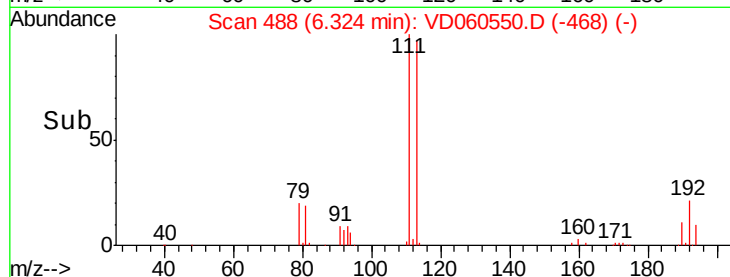
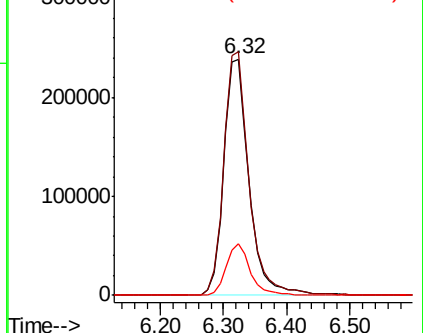
192 21.8 16.6 24.8



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: 5.175 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.12 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

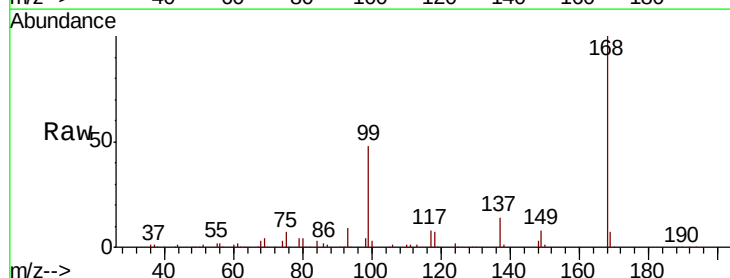
Tgt Ion: 75 Resp: 102165

Ion Ratio Lower Upper

75 100

110 8.2 18.3 54.8#

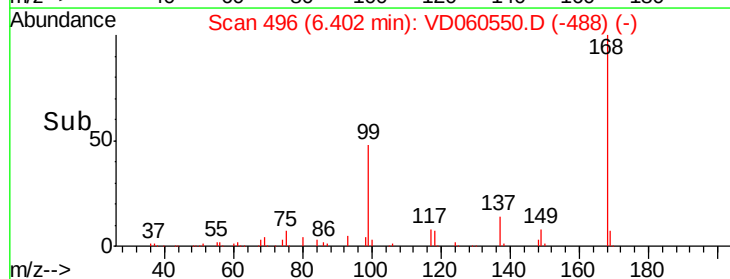
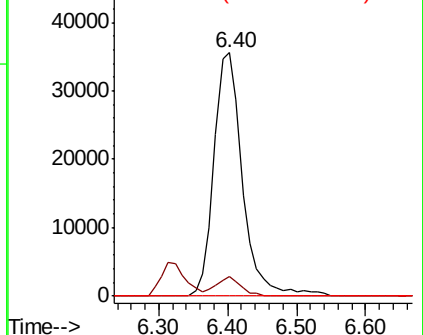
77 0.0 24.6 37.0#

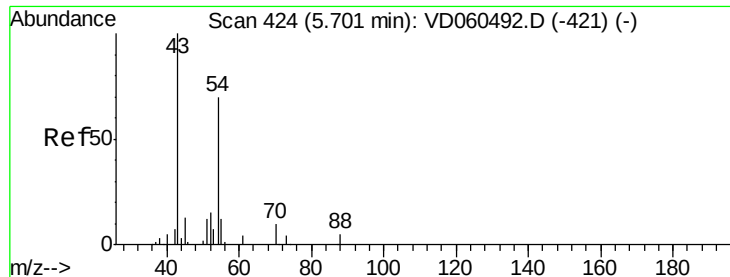


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.066 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.09 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleID :

OK-03-121118

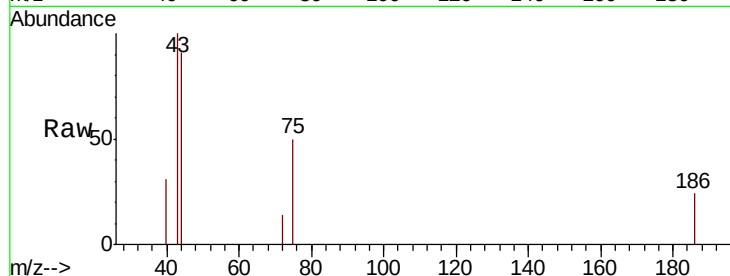
Tot Ion: 43 Resp: 9127

Ion Ratio Lower Upper

43 100

61 0.0 12.4 18.6#

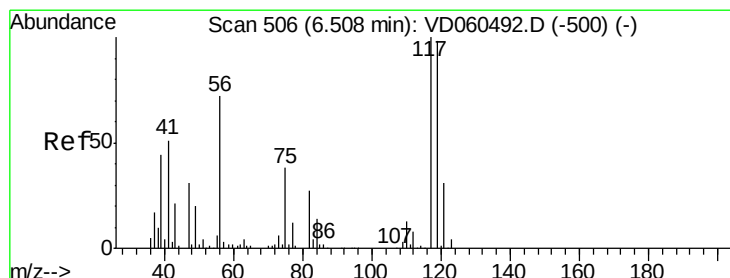
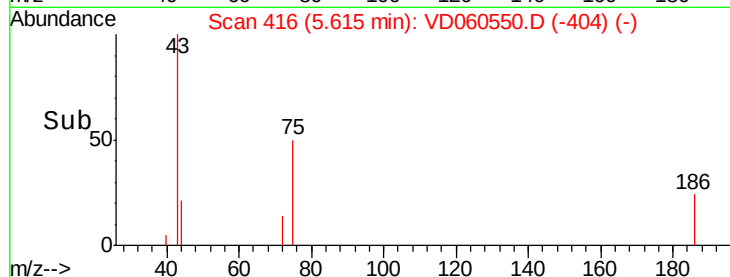
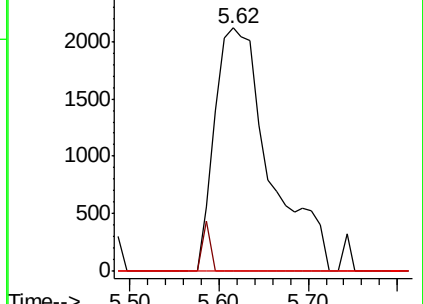
70 0.0 5.4 8.0#



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: 6.359 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.11 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

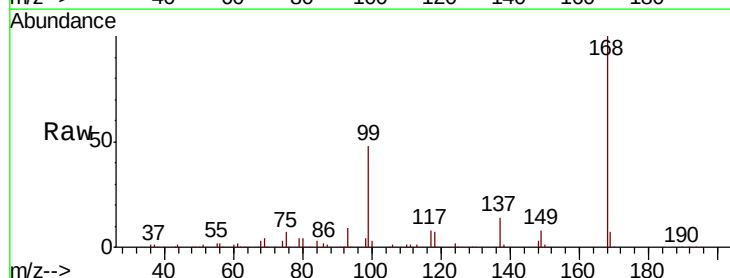
Tgt Ion: 117 Resp: 112715

Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

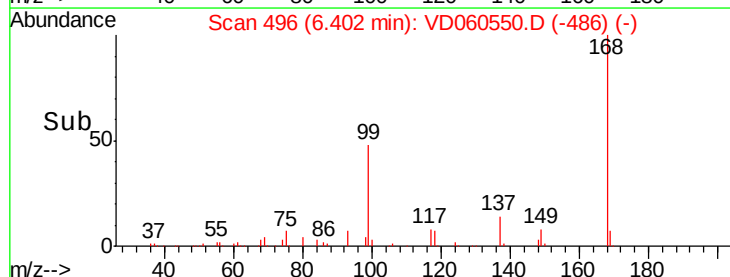
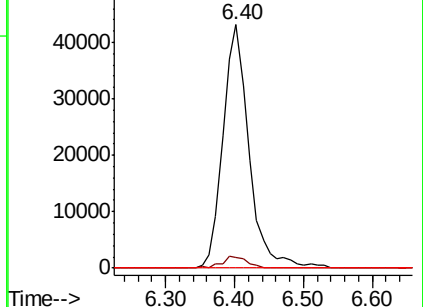
121 0.0 24.4 36.6#

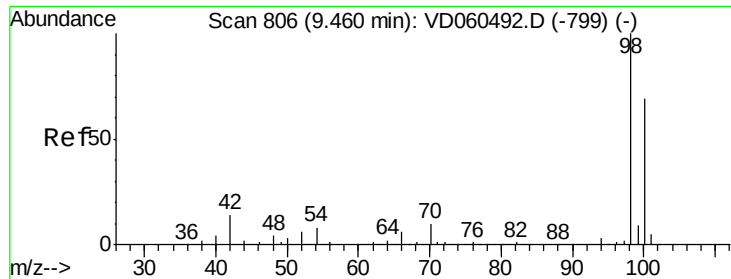


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

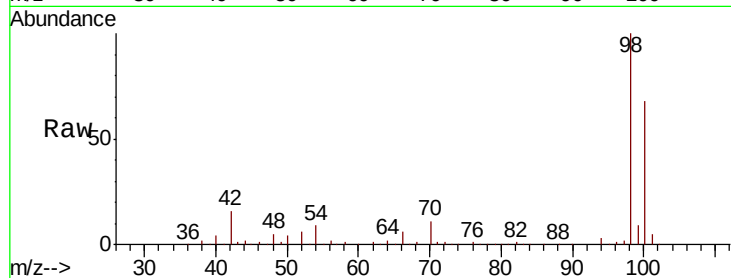




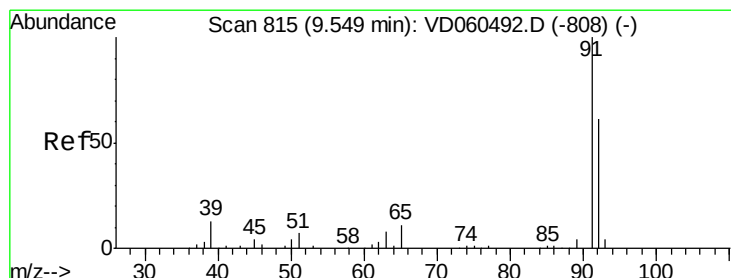
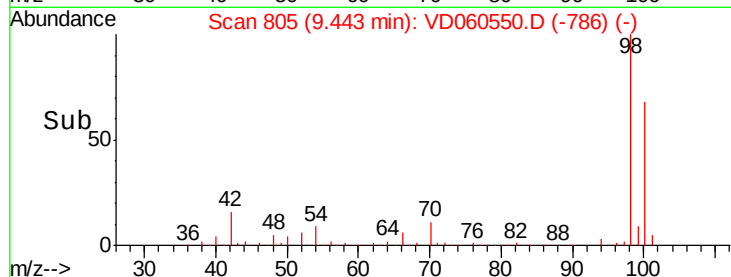
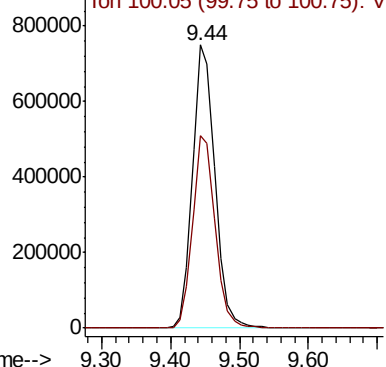
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 805
Delta R.T. -0.02 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

Instrument :
MSVOA_D
ClientSampleId :
OK-03-121118

Tot Ion: 98 Resp: 1692849
Ion Ratio Lower Upper
98 100
100 68.1 55.7 83.5

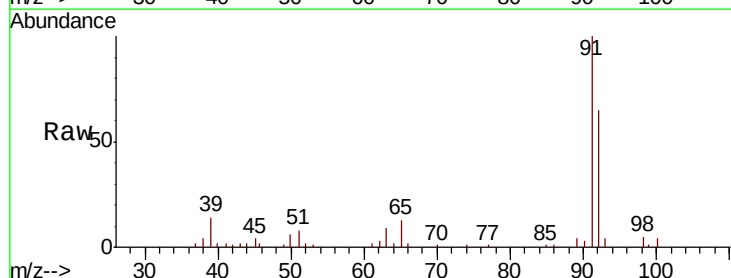


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

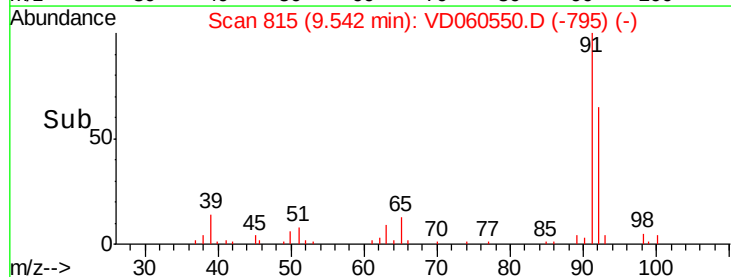
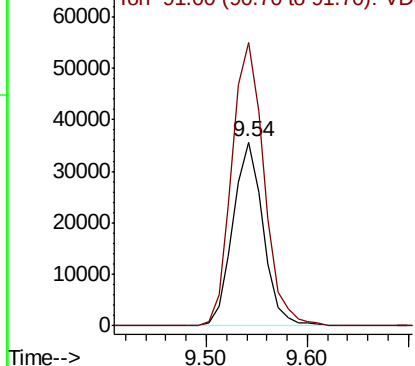


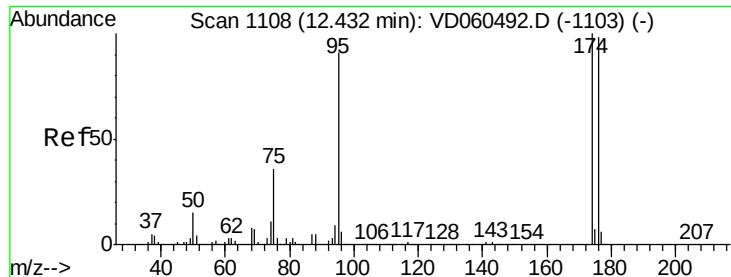
#52
Toluene
Concen: 2.367 ug/l
RT: 9.54 min Scan# 815
Delta R.T. -0.01 min
Lab File: VD060550.D
Acq: 12 Dec 2018 16:42

Tgt Ion: 92 Resp: 74639
Ion Ratio Lower Upper
92 100
91 153.9 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.42 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

OK-03-121118

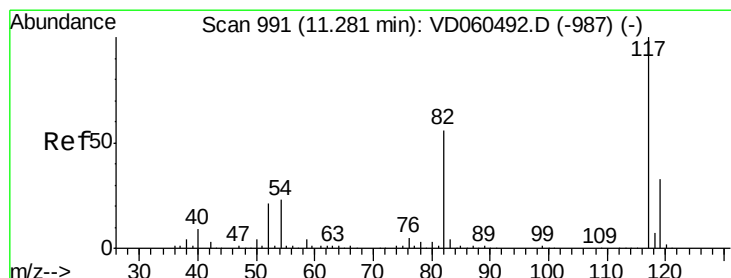
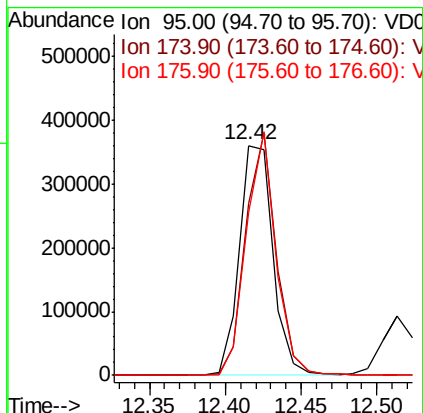
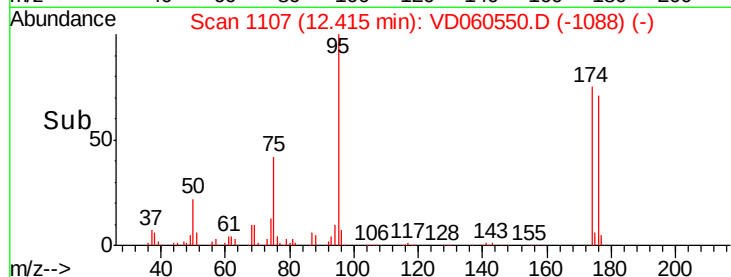
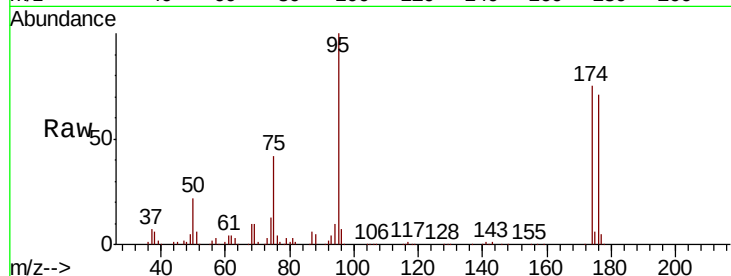
Tot Ion: 95 Resp: 556496

Ion Ratio Lower Upper

95 100

174 75.0 0.0 219.4

176 70.9 0.0 214.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 991

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

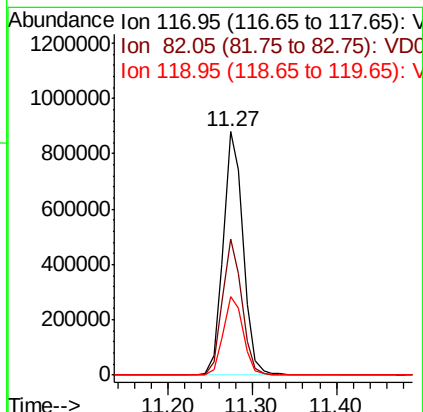
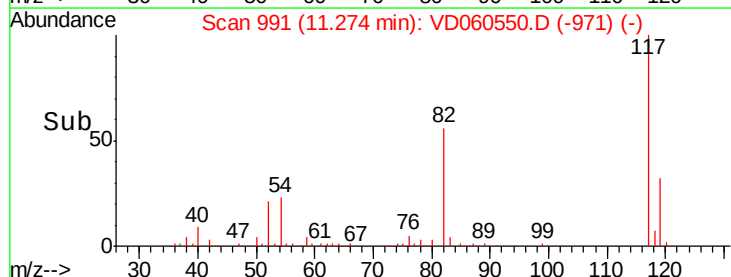
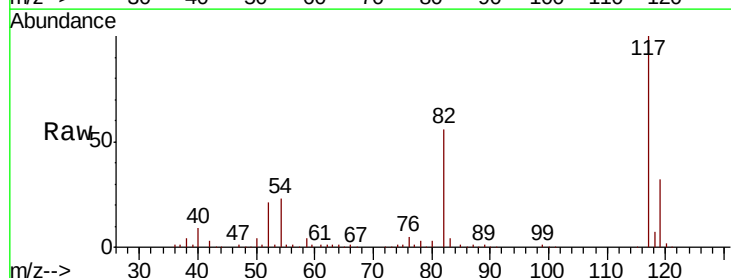
Tgt Ion: 117 Resp: 1443136

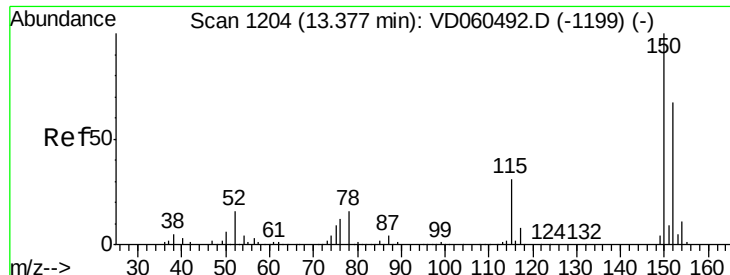
Ion Ratio Lower Upper

117 100

82 56.0 45.2 67.8

119 32.3 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

OK-03-121118

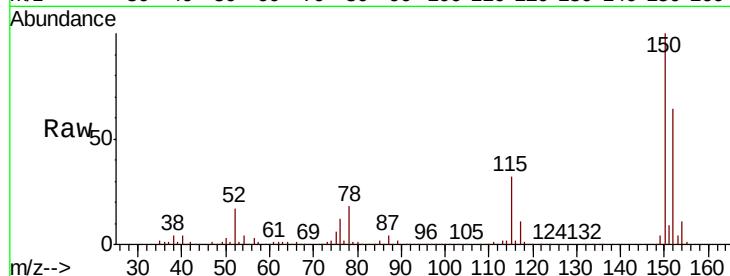
Tot Ion:152 Resp: 593966

Ion Ratio Lower Upper

152 100

115 49.0 24.6 74.0

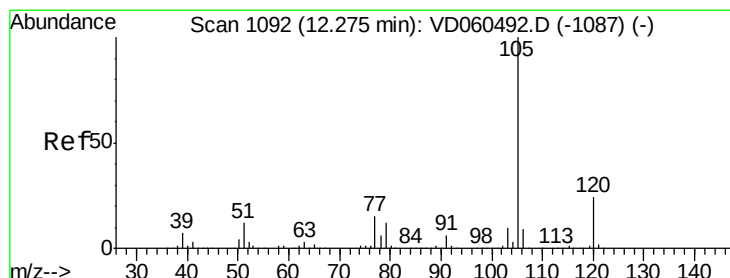
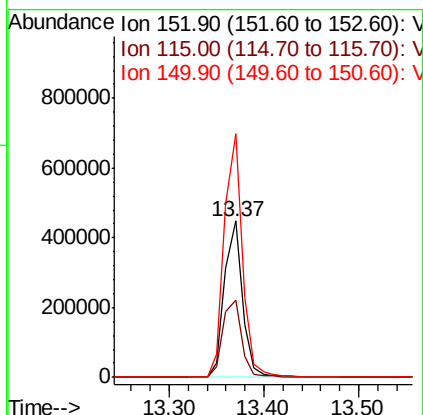
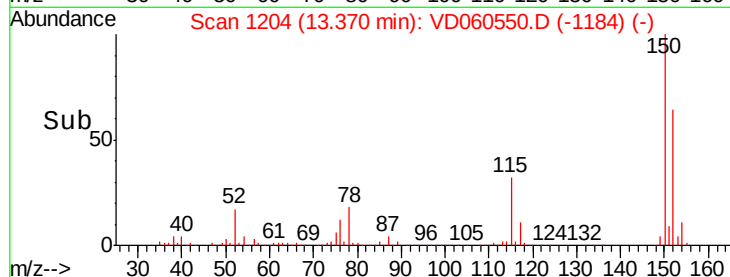
150 155.6 0.0 309.0



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



#73

Isopropylbenzene

Concen: 1.415 ug/l

RT: 12.26 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VD060550.D

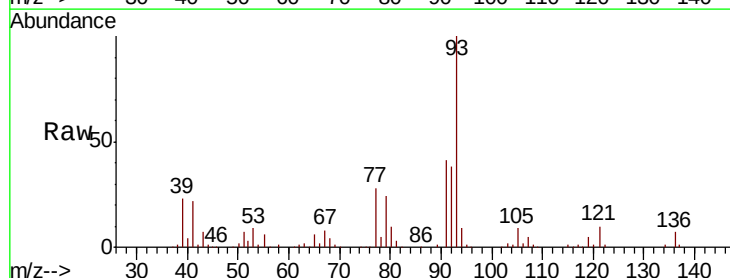
Acq: 12 Dec 2018 16:42

Tgt Ion:105 Resp: 59476

Ion Ratio Lower Upper

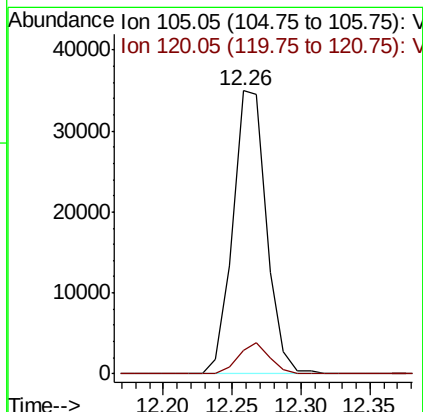
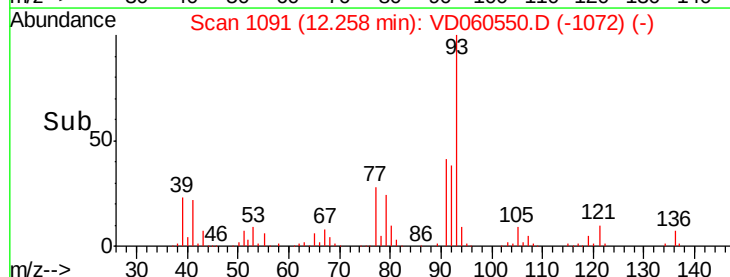
105 100

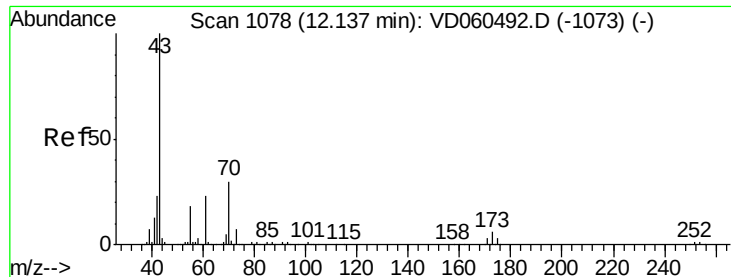
120 8.5 11.9 35.9#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 1.121 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

OK-03-121118

Tot Ion: 43 Resp: 11390

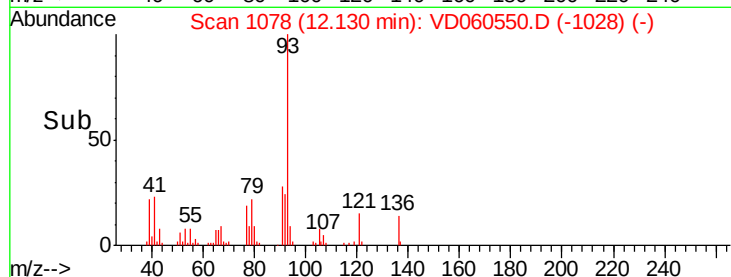
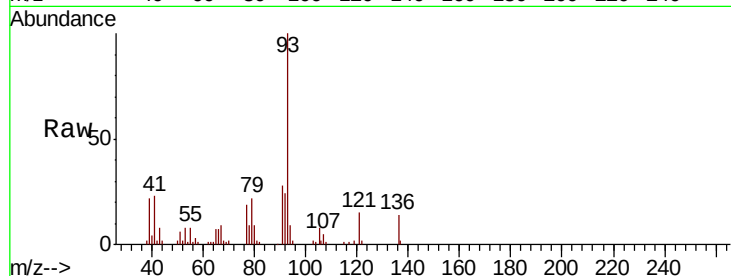
Ion Ratio Lower Upper

43 100

70 30.4 23.8 35.8

55 92.7 14.2 21.2#

61 0.0 18.1 27.1#

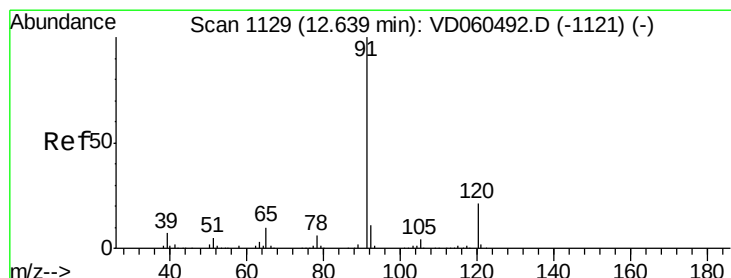
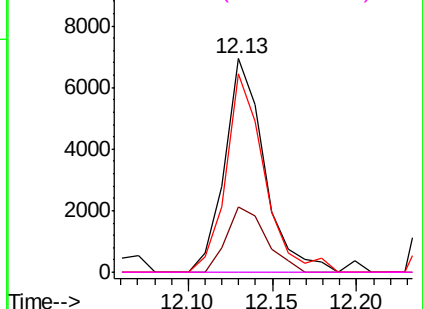


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#78

n-propylbenzene

Concen: 5.362 ug/l

RT: 12.51 min Scan# 1117

Delta R.T. -0.12 min

Lab File: VD060550.D

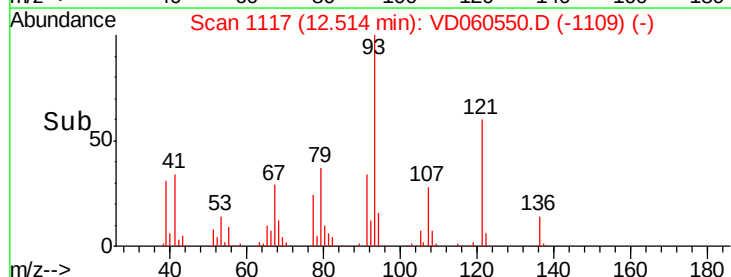
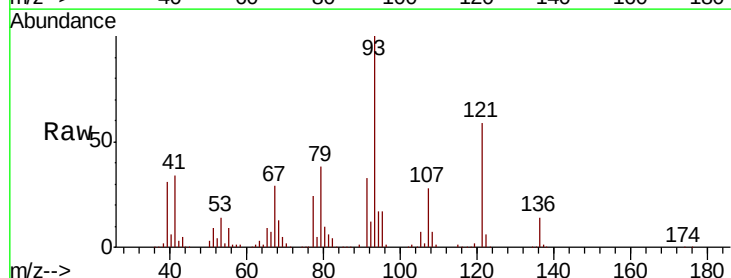
Acq: 12 Dec 2018 16:42

Tgt Ion: 91 Resp: 284882

Ion Ratio Lower Upper

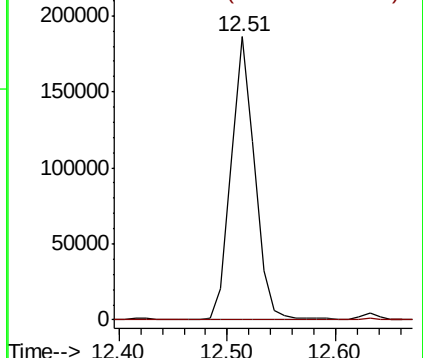
91 100

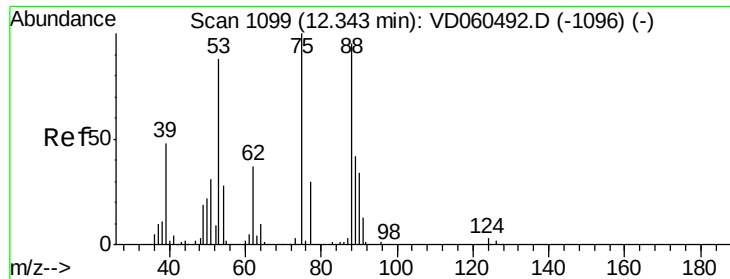
120 0.0 10.4 31.1#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 122.602 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.07 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

Instrument :

MSVOA_D

ClientSampleId :

OK-03-121118

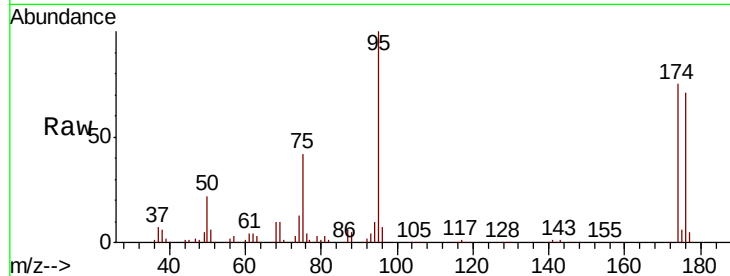
Tot Ion: 75 Resp: 230128

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

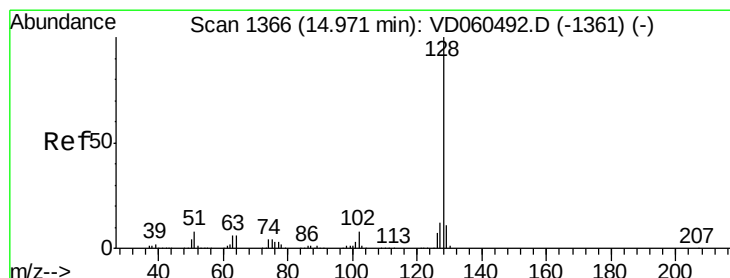
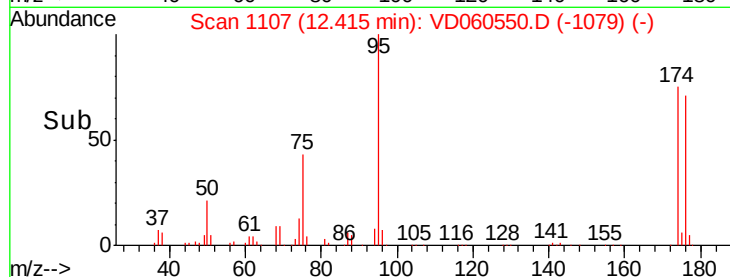
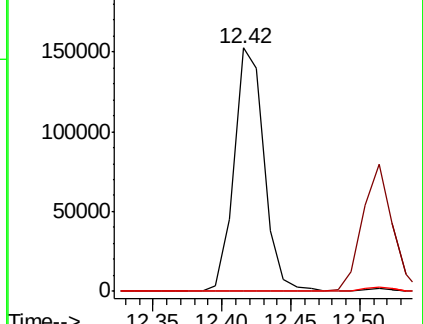
89 0.0 33.6 50.4#



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: 10.104 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. -0.01 min

Lab File: VD060550.D

Acq: 12 Dec 2018 16:42

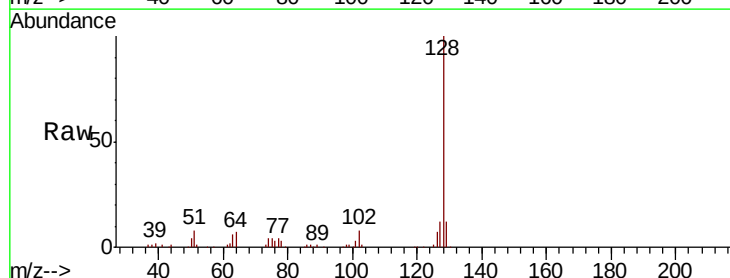
Tgt Ion:128 Resp: 153616

Ion Ratio Lower Upper

128 100

127 11.8 9.8 14.8

129 11.7 8.6 13.0



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

