

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102418\
 Data File : VD060181.D
 Acq On : 24 Oct 2018 14:54
 Operator : JC/SY
 Sample : J5200-13
 Misc : 6.37g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-102318-A

Quant Time: Oct 25 03:35:01 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

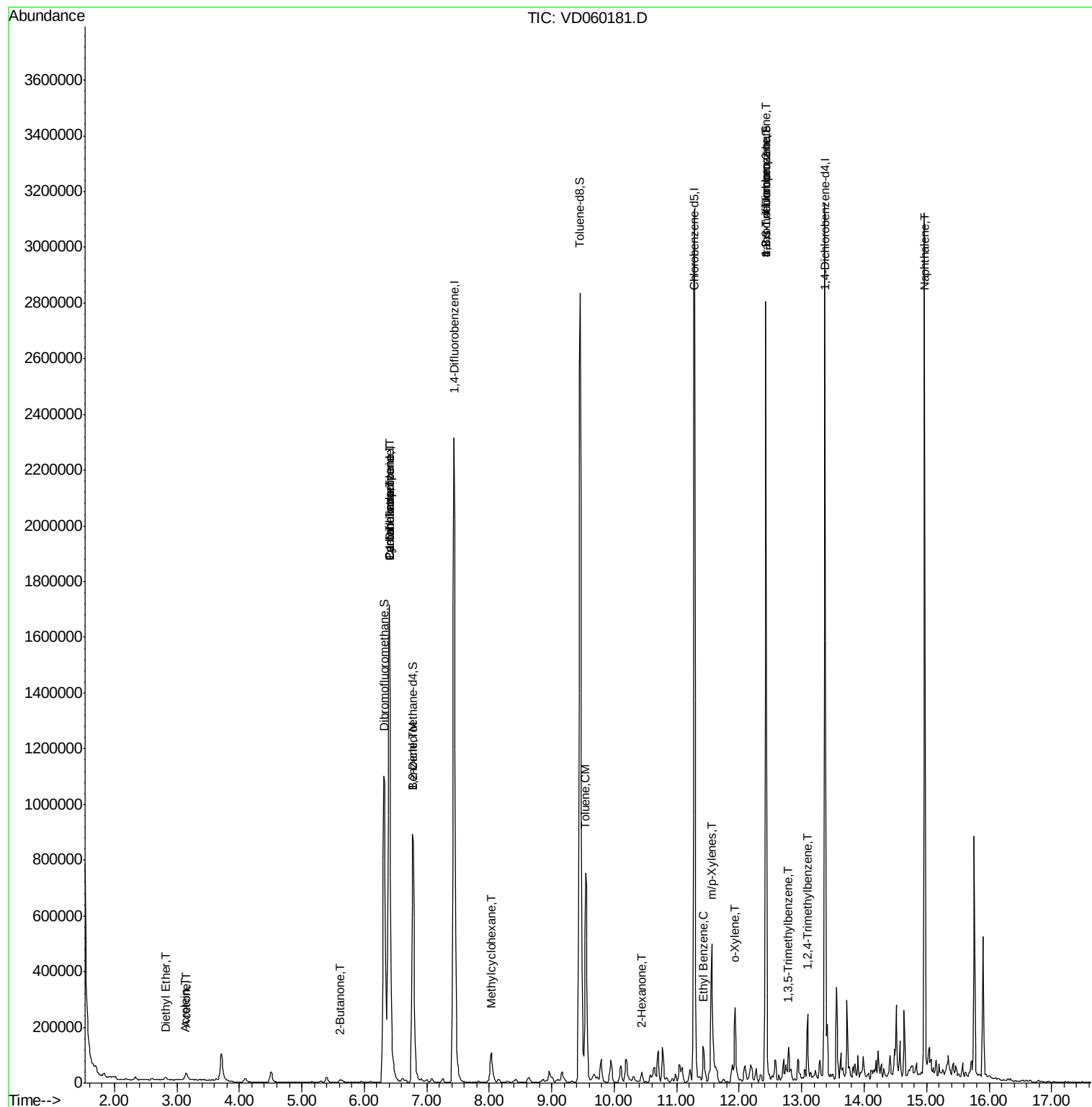
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1685073	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	2485269	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.28	117	1795028	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	696214	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.78	65	725605	56.81	ug/l	0.02
Spiked Amount 50.000			Recovery	=	113.62%	
35) Dibromofluoromethane	6.31	113	911694	48.31	ug/l	0.02
Spiked Amount 50.000			Recovery	=	96.62%	
50) Toluene-d8	9.45	98	2344318	43.56	ug/l	0.02
Spiked Amount 50.000			Recovery	=	87.12%	
62) 4-Bromofluorobenzene	12.43	95	778280	38.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.24%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.82	74	3516	1.221	ug/l	87
13) Acrolein	3.12	56	761	1.348	ug/l	91
16) Acetone	3.15	43	58066	25.053	ug/l	98
20) Methylene Chloride	3.72	84	59279	Below Cal		96
25) 2-Butanone	5.62	43	12923	2.232	ug/l	98
31) Cyclohexane	6.40	56	45185	1.633	ug/l #	1
36) 1,1-Dichloropropene	6.40	75	114600	4.825	ug/l #	46
38) Carbon Tetrachloride	6.40	117	133245	6.182	ug/l #	15
39) Methylcyclohexane	8.04	83	51630	1.913	ug/l	97
40) Benzene	6.79	78	79408	1.278	ug/l	97
52) Toluene	9.54	92	394273	9.853	ug/l	97
59) 2-Hexanone	10.44	43	24907	2.648	ug/l #	30
67) Ethyl Benzene	11.42	91	85717	1.362	ug/l	98
68) m/p-Xylenes	11.56	106	137612	5.854	ug/l	96
69) o-Xylene	11.93	106	57415	2.469	ug/l	90
76) 1,2,3-Trichloropropane	12.43	75	294262	29.349	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.79	105	43897	1.235	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.43	75	308791	109.606	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.09	105	107077	2.858	ug/l	95
95) Naphthalene	14.96	128	1766648	71.813	ug/l	100

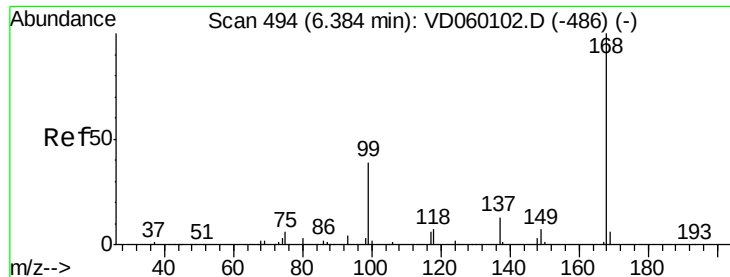
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD060181.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_D

ClientSampleId :

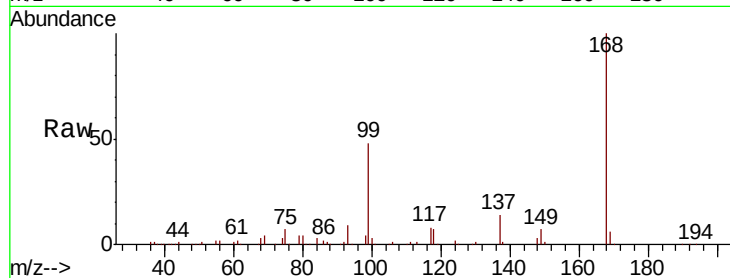
OR-02-102318-A

Tot Ion:168 Resp: 1685073

Ion Ratio Lower Upper

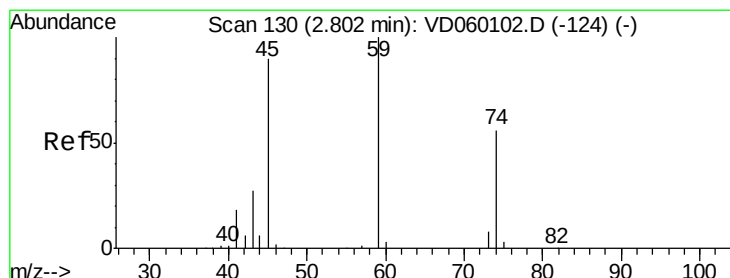
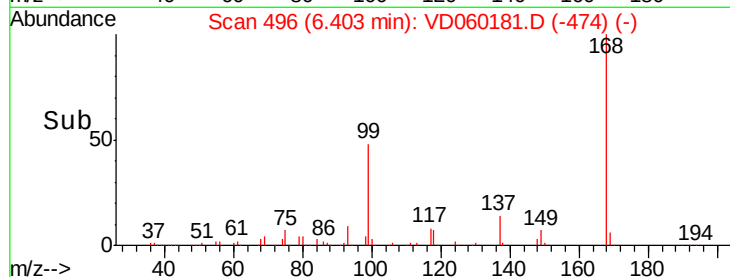
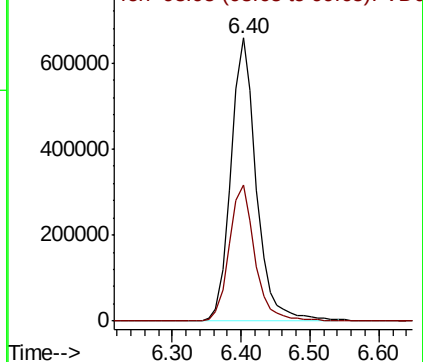
168 100

99 48.1 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.221 ug/l

RT: 2.82 min Scan# 132

Delta R.T. 0.02 min

Lab File: VD060181.D

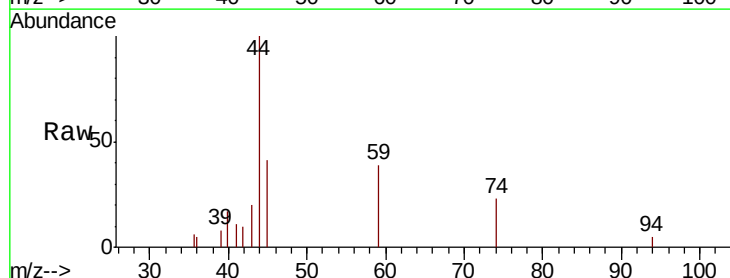
Acq: 24 Oct 2018 14:54

Tgt Ion: 74 Resp: 3516

Ion Ratio Lower Upper

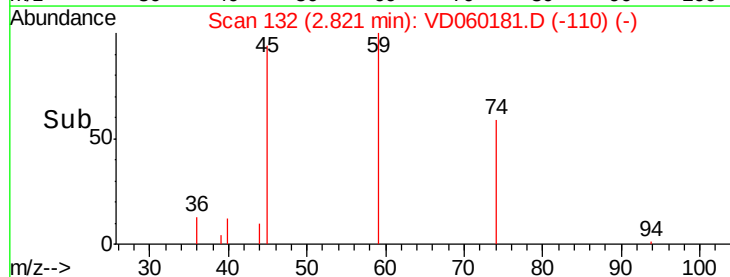
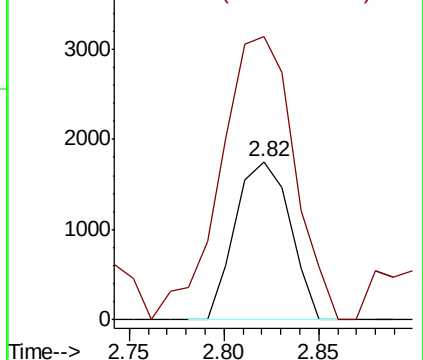
74 100

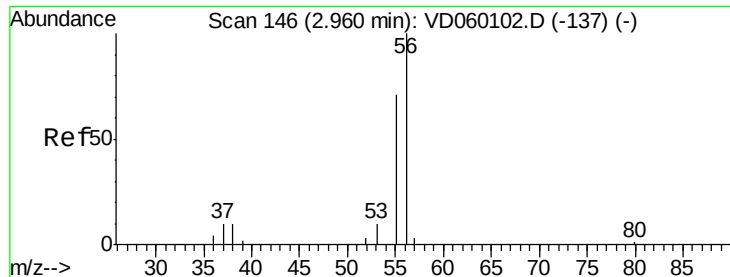
45 178.5 80.3 241.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#13

Acrolein

Concen: 1.348 ug/l

RT: 3.12 min Scan# 162

Delta R.T. 0.16 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_D

ClientSampleId :

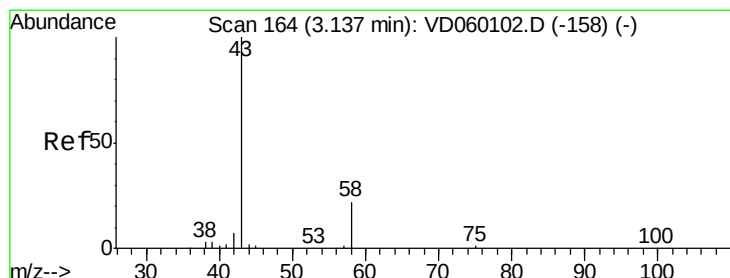
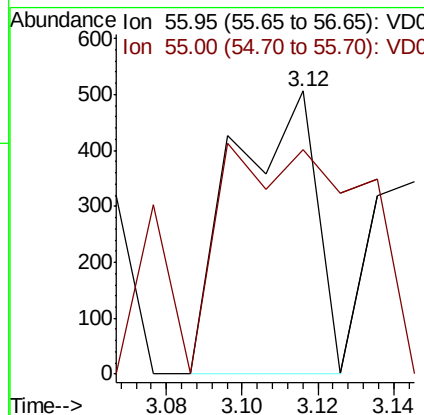
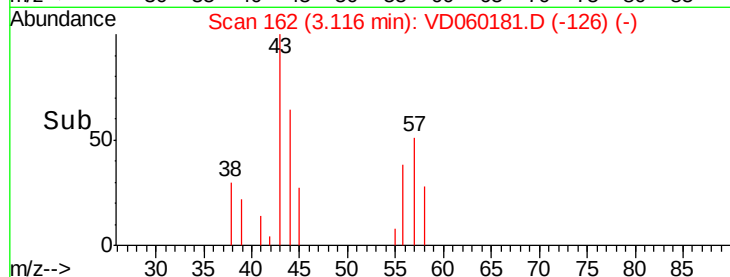
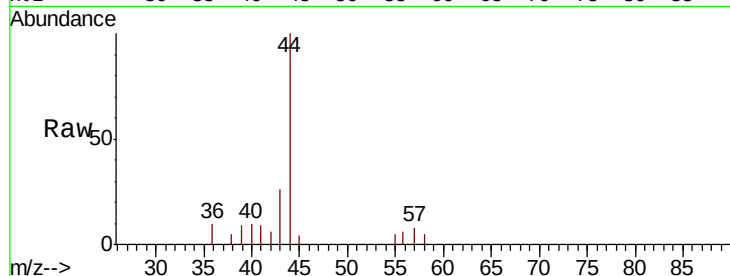
OR-02-102318-A

Tot Ion: 56 Resp: 761

Ion Ratio Lower Upper

56 100

55 79.4 57.4 86.2



#16

Acetone

Concen: 25.053 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060181.D

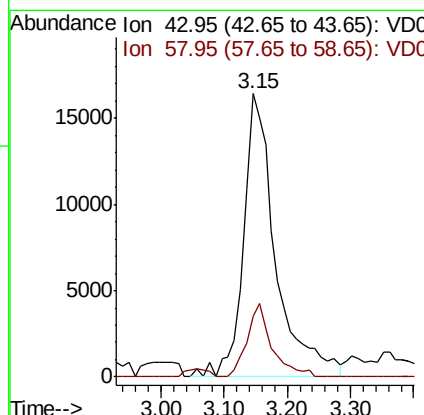
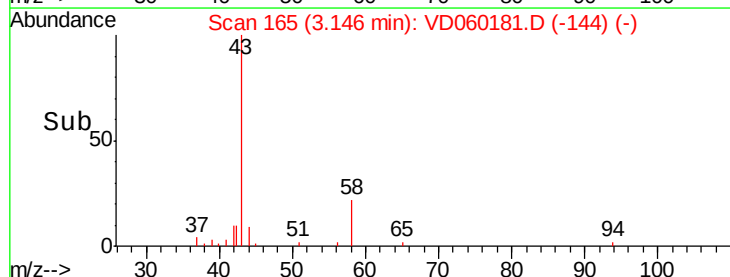
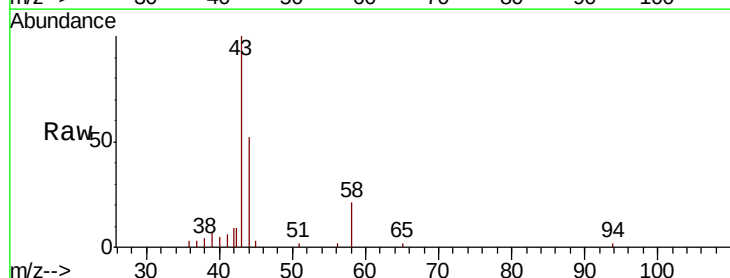
Acq: 24 Oct 2018 14:54

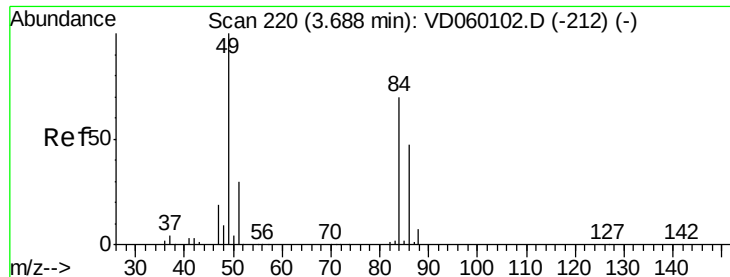
Tgt Ion: 43 Resp: 58066

Ion Ratio Lower Upper

43 100

58 21.2 17.7 26.5

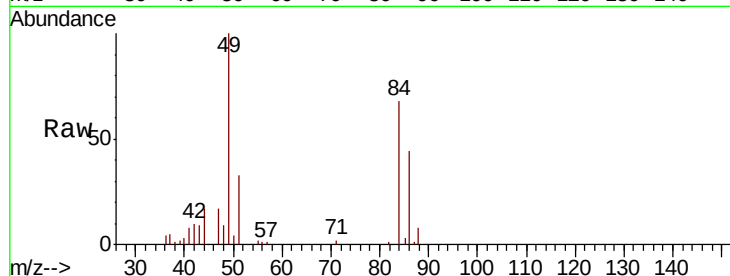




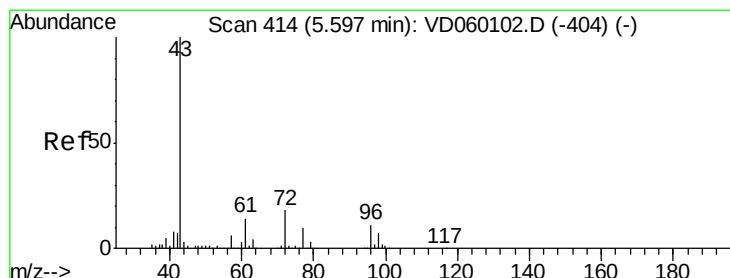
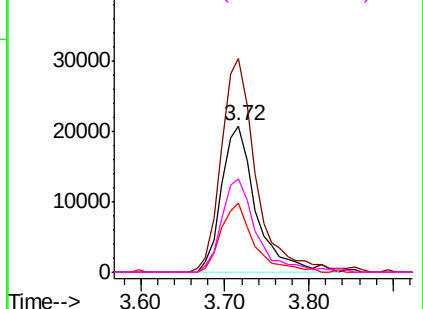
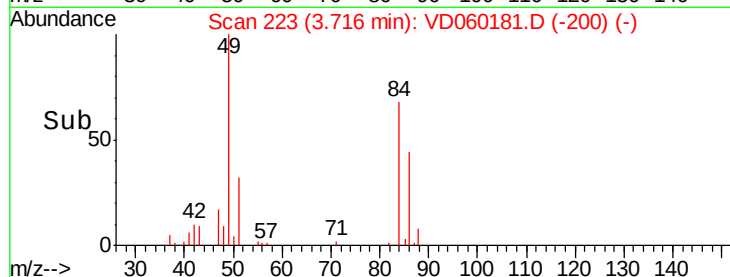
#20
Methylene Chloride
Concen: Below Cal
RT: 3.72 min Scan# 223
Delta R.T. 0.03 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Instrument :
MSVOA_D
ClientSampleId :
OR-02-102318-A

Tot Ion: 84 Resp: 59279
Ion Ratio Lower Upper
84 100
49 146.3 114.6 172.0
51 47.6 33.8 50.8
86 64.1 53.3 79.9

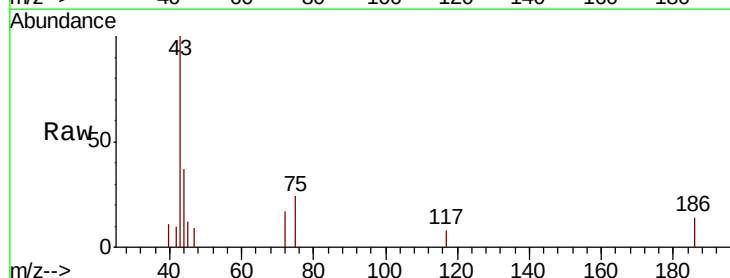


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

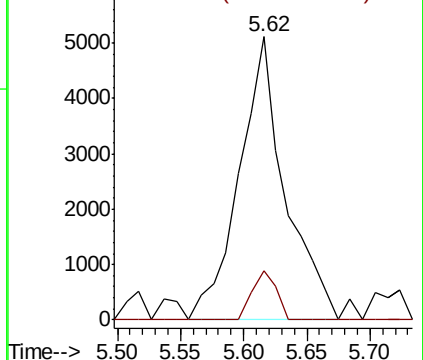
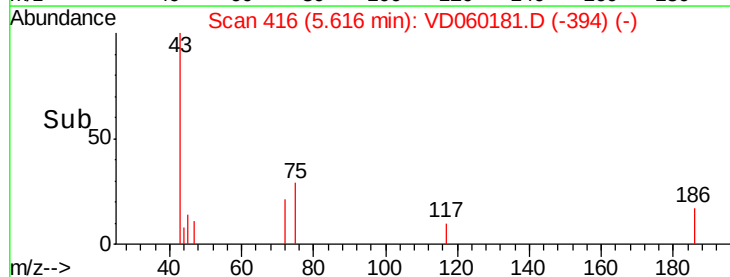


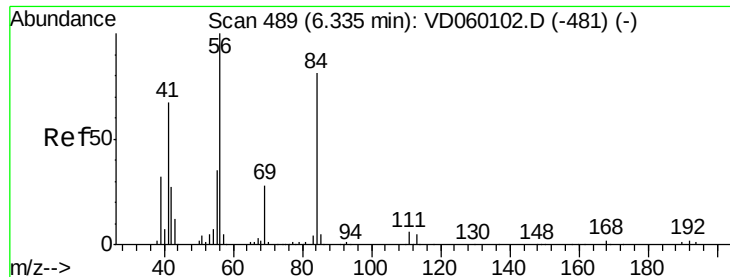
#25
2-Butanone
Concen: 2.232 ug/l
RT: 5.62 min Scan# 416
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 43 Resp: 12923
Ion Ratio Lower Upper
43 100
72 17.2 14.5 21.7



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

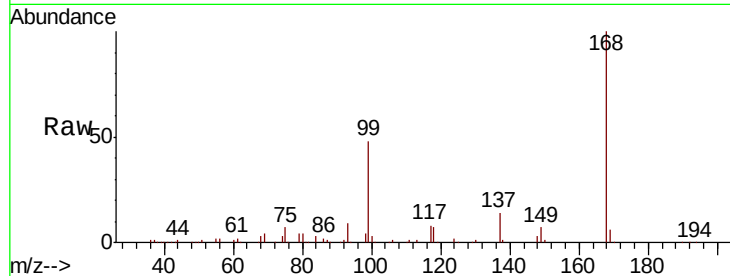




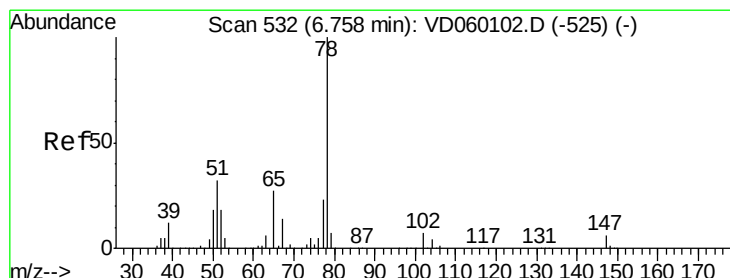
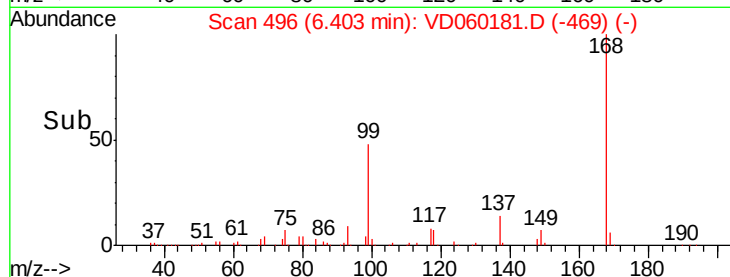
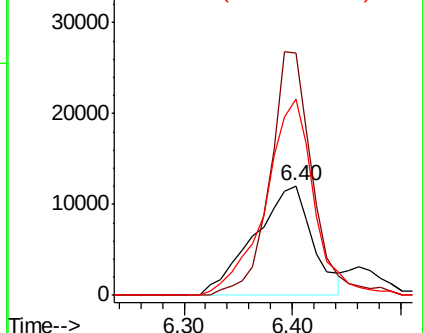
#31
Cyclohexane
Concen: 1.633 ug/l
RT: 6.40 min Scan# 496
Delta R.T. 0.07 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Instrument :
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OR-02-102318-A

Tot Ion: 56 Resp: 45185
Ion Ratio Lower Upper
56 100
69 220.9 22.8 34.2#
84 179.1 64.9 97.3#

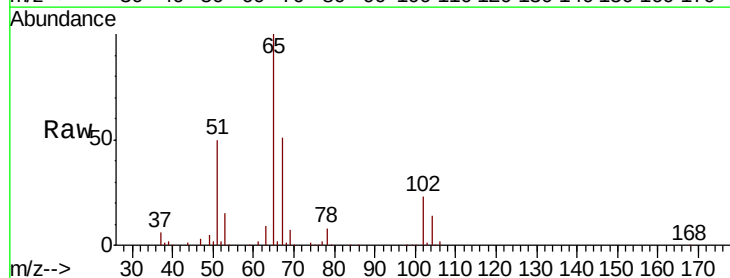


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

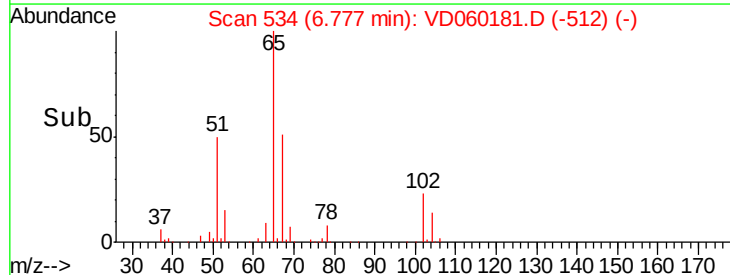
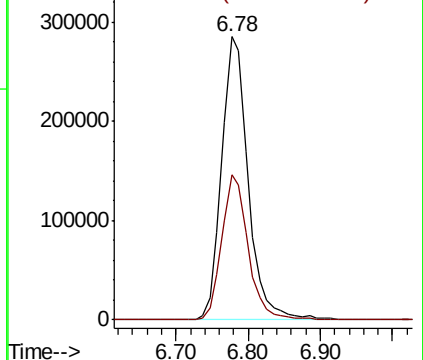


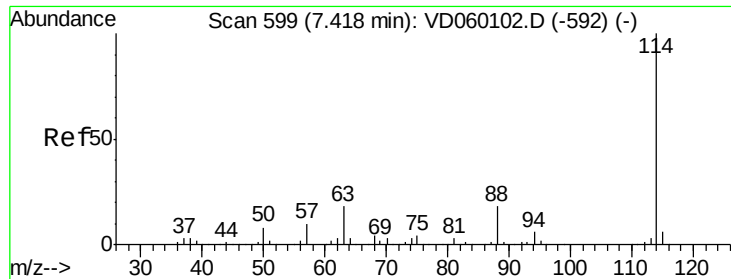
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.78 min Scan# 534
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 65 Resp: 725605
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.2



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

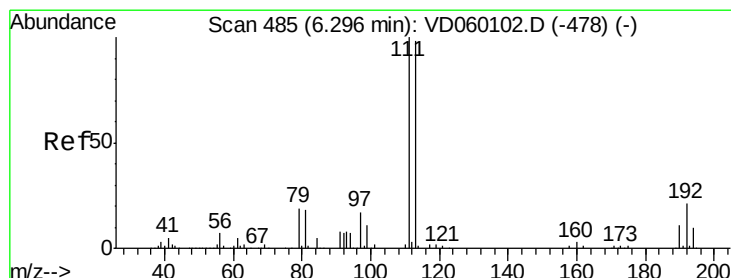
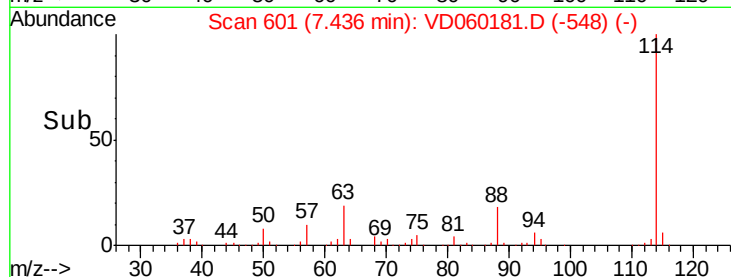
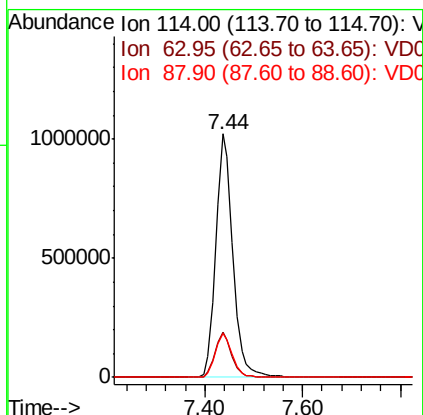
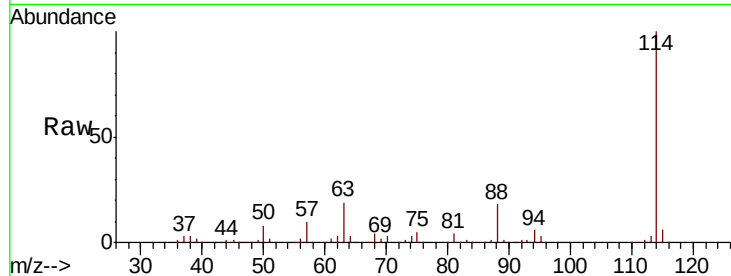




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.02 min
 Lab File: VD060181.D
 Acq: 24 Oct 2018 14:54

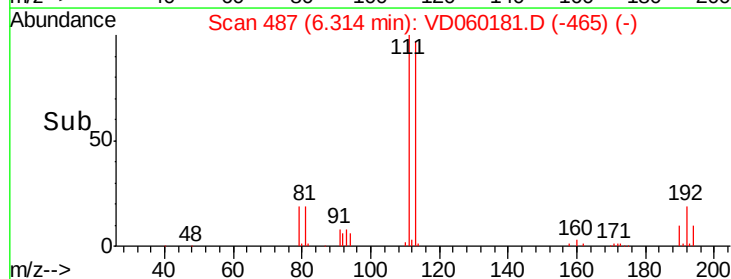
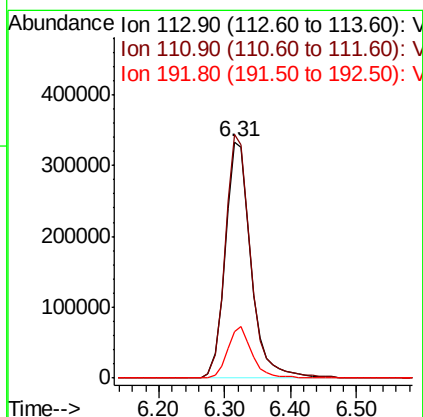
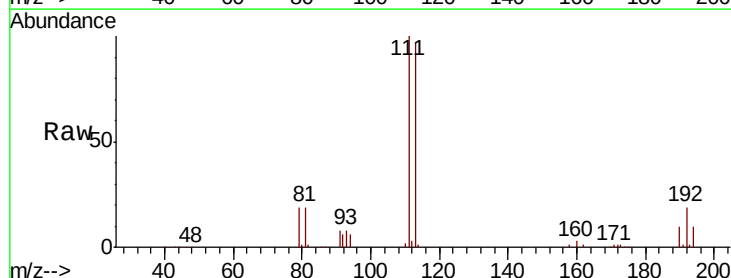
Instrument :
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 ClientSampleId :
 OR-02-102318-A

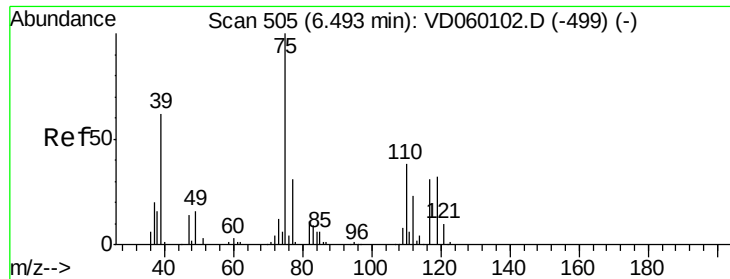
Tot Ion:114 Resp: 2485269
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.0
 88 17.9 0.0 36.2



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.31 min Scan# 487
 Delta R.T. 0.02 min
 Lab File: VD060181.D
 Acq: 24 Oct 2018 14:54

Tgt Ion:113 Resp: 911694
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.5 122.3
 192 19.7 17.4 26.0

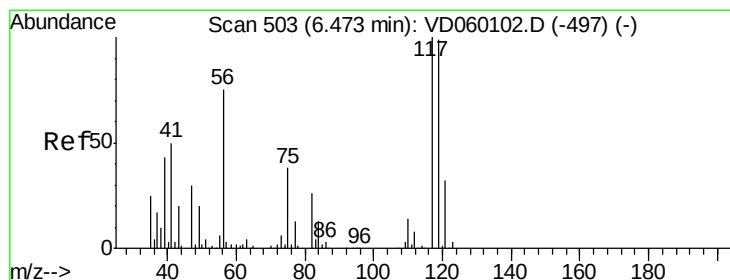
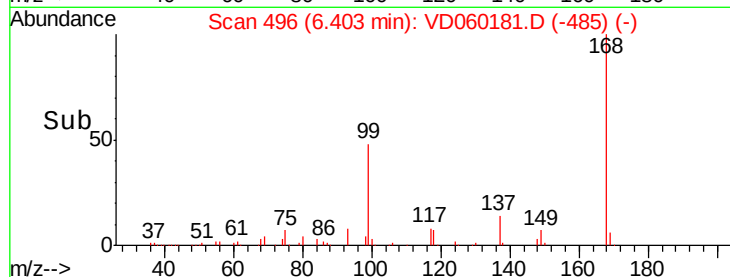
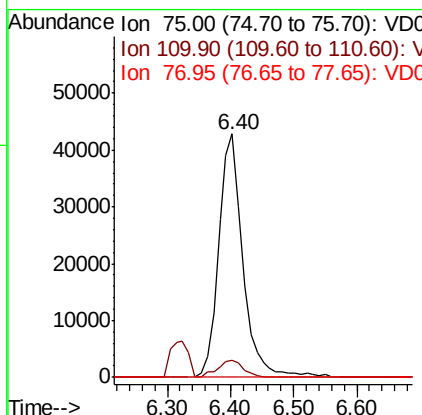
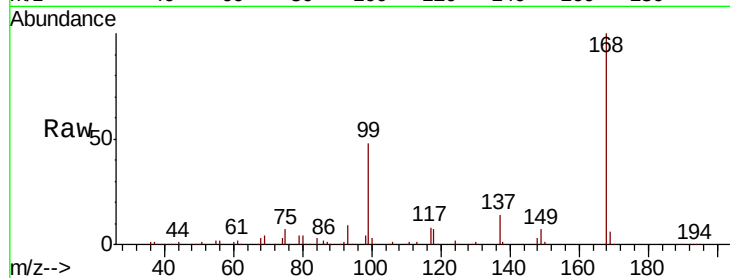




#36
 1,1-Dichloropropene
 Concen: 4.825 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.09 min
 Lab File: VD060181.D
 Acq: 24 Oct 2018 14:54

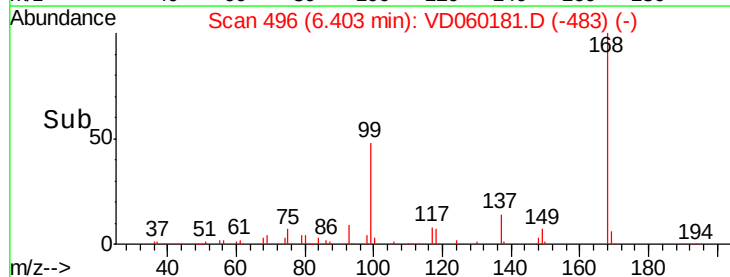
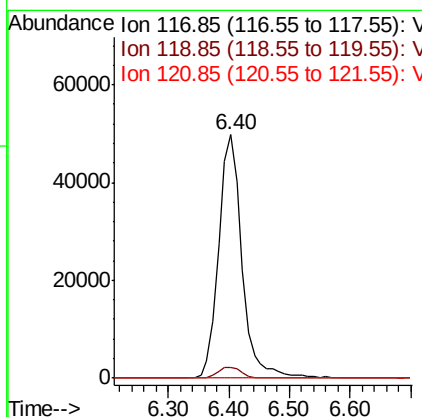
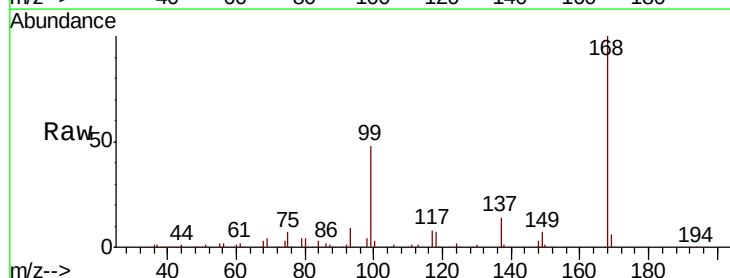
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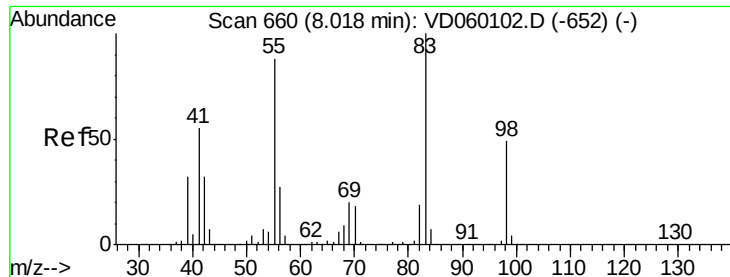
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.1	19.0	57.0#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.182 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.07 min
 Lab File: VD060181.D
 Acq: 24 Oct 2018 14:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	77.8	116.6#
121	0.0	24.8	37.2#

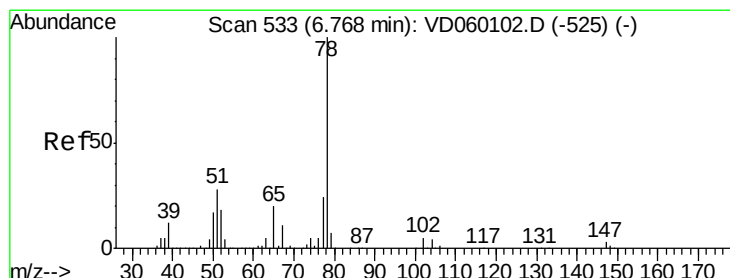
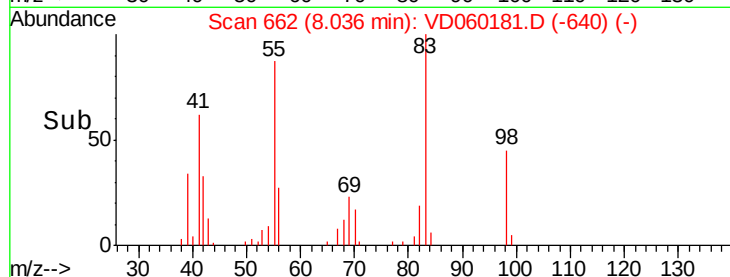
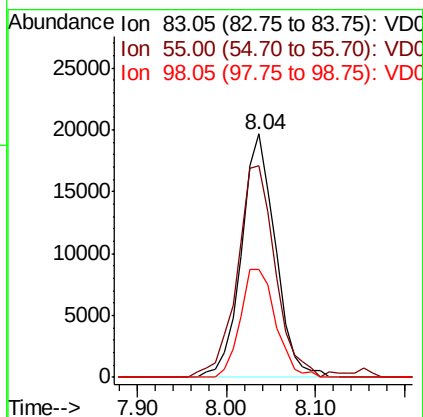
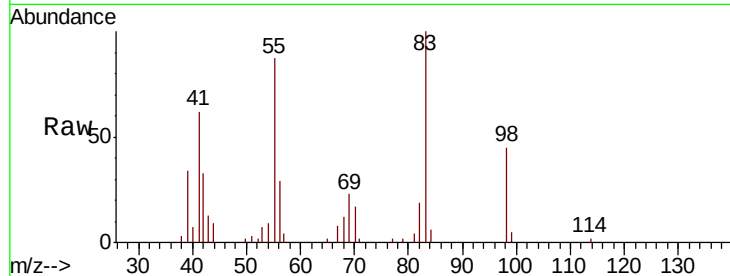




#39
Methylvlcyclohexane
Concen: 1.913 ug/l
RT: 8.04 min Scan# 662
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

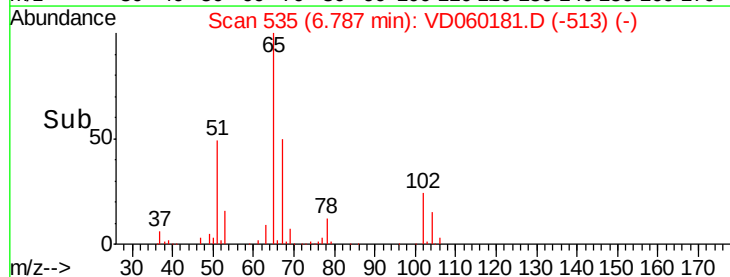
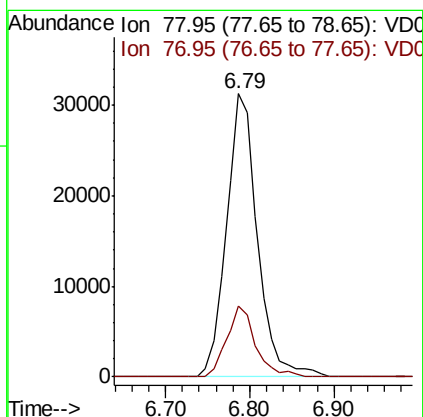
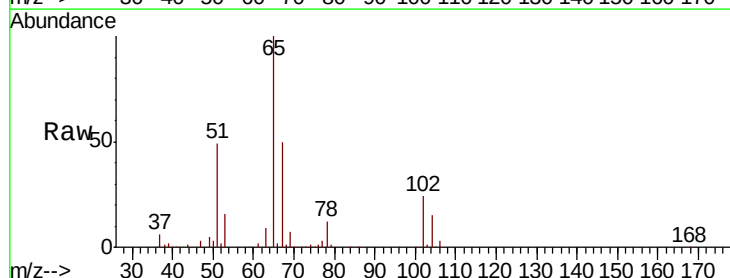
Instrument :
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OR-02-102318-A

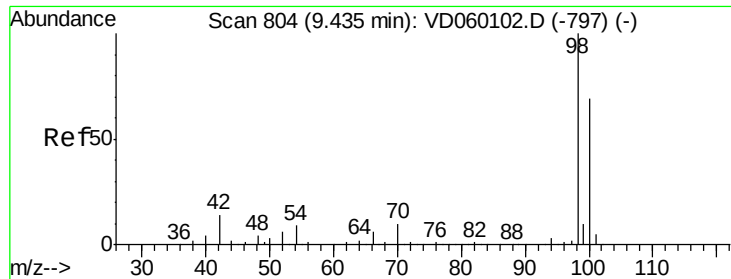
Tot Ion: 83 Resp: 51630
Ion Ratio Lower Upper
83 100
55 86.8 70.5 105.7
98 44.6 39.4 59.2



#40
Benzene
Concen: 1.278 ug/l
RT: 6.79 min Scan# 535
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 78 Resp: 79408
Ion Ratio Lower Upper
78 100
77 25.3 19.0 28.4

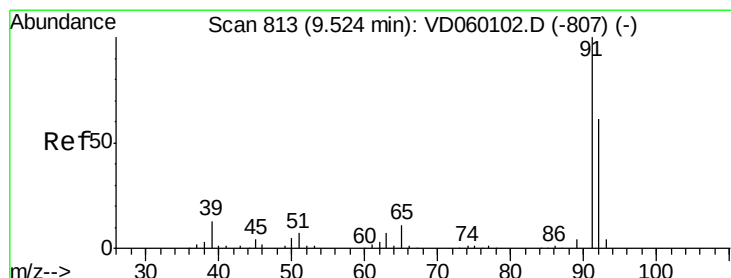
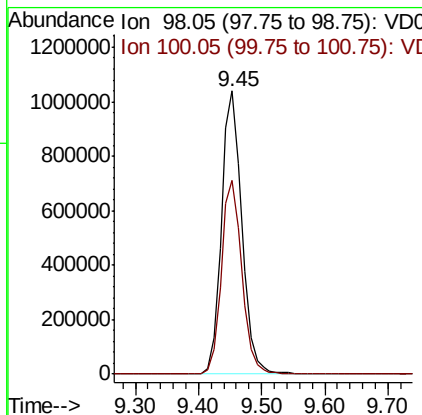
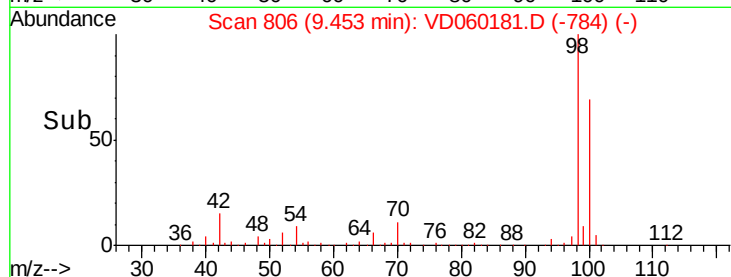
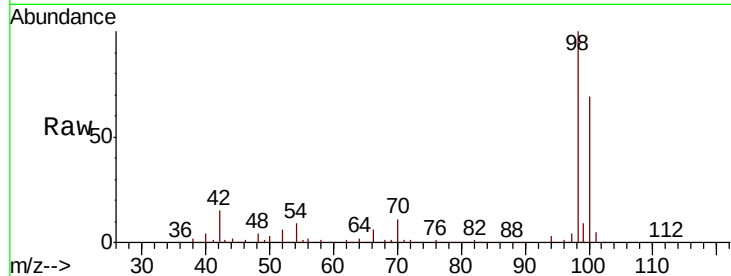




#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

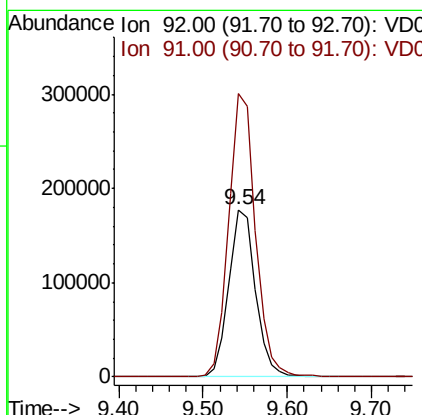
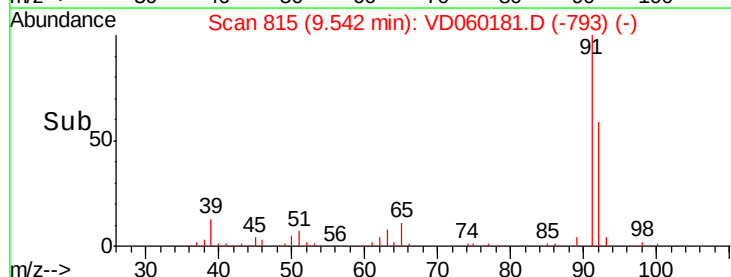
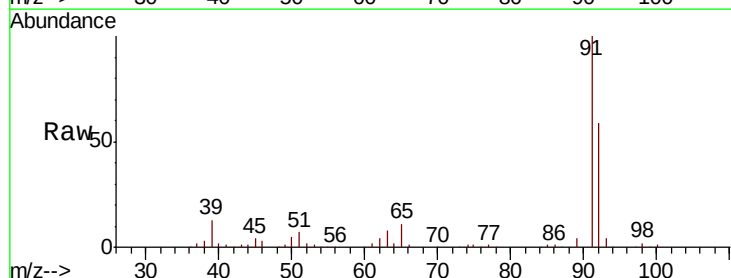
Instrument :
MSVOA_D
ClientSampleId :
OR-02-102318-A

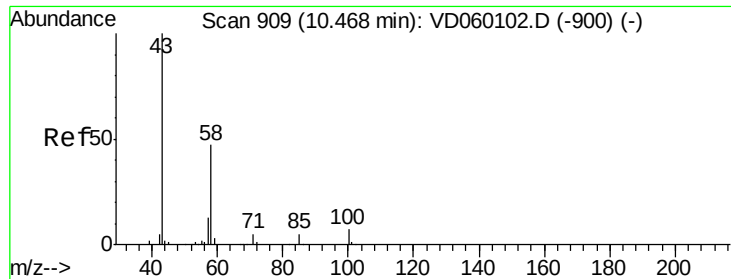
Tot Ion: 98 Resp: 2344318
Ion Ratio Lower Upper
98 100
100 68.6 55.4 83.0



#52
Toluene
Concen: 9.853 ug/l
RT: 9.54 min Scan# 815
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 92 Resp: 394273
Ion Ratio Lower Upper
92 100
91 169.4 131.9 197.9

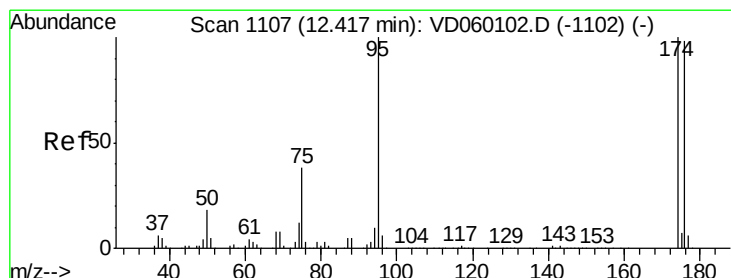
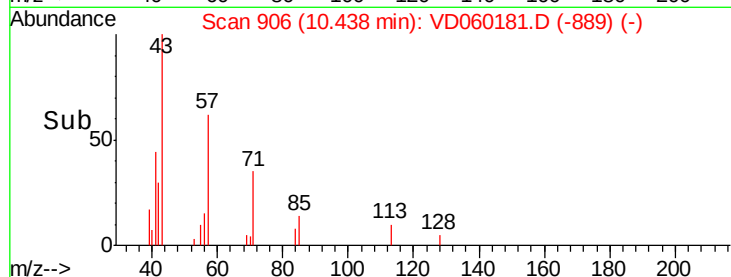
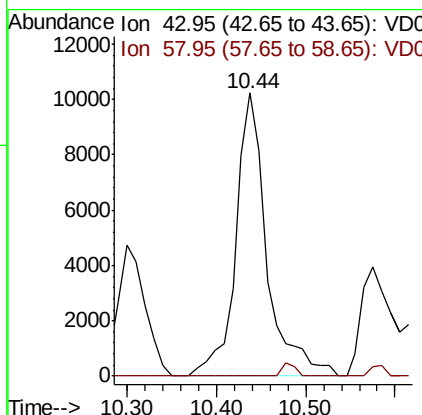
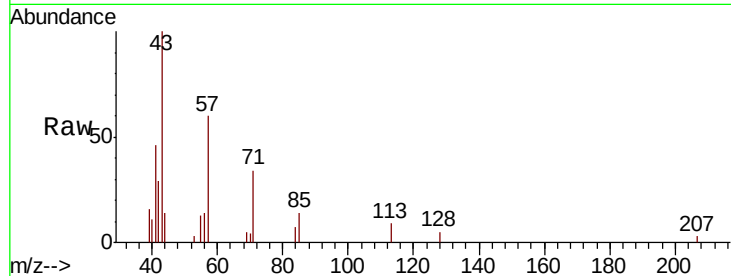




#59
2-Hexanone
Concen: 2.648 ug/l
RT: 10.44 min Scan# 906
Delta R.T. -0.03 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

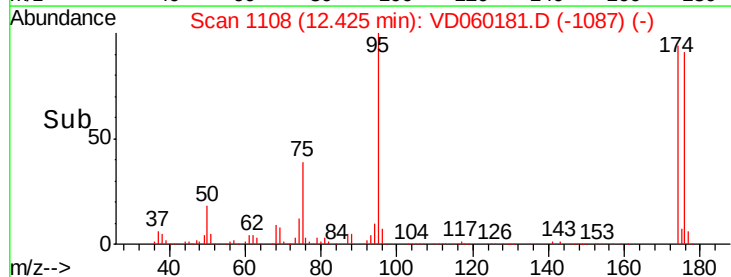
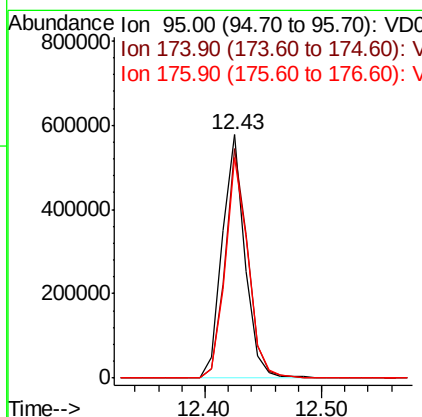
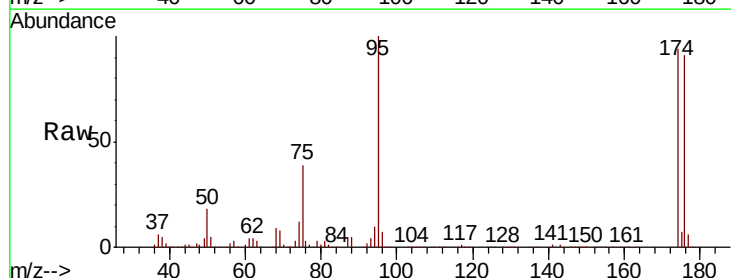
Instrument :
MSVOA_D
ClientSampleId :
OR-02-102318-A

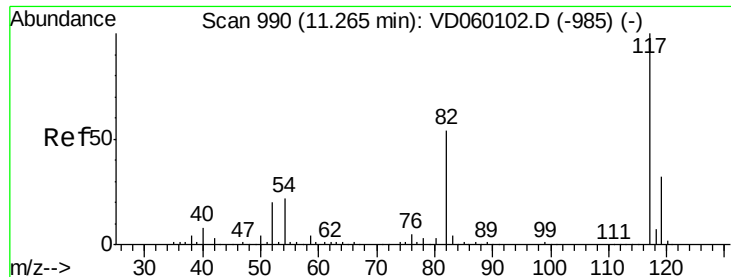
Tot Ion: 43 Resp: 24907
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. 0.01 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 95 Resp: 778280
Ion Ratio Lower Upper
95 100
174 94.3 0.0 200.2
176 90.5 0.0 195.6

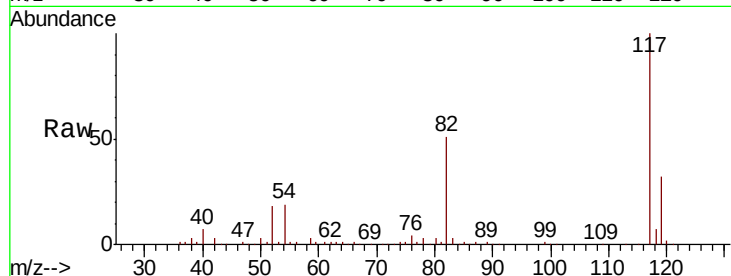




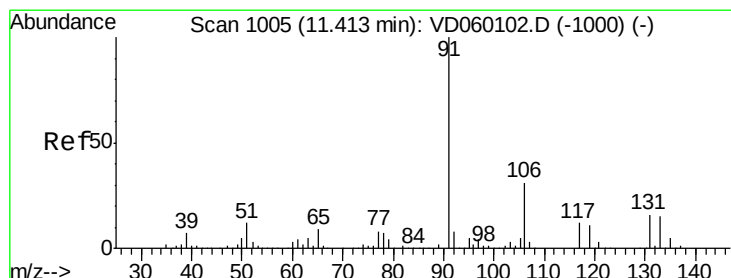
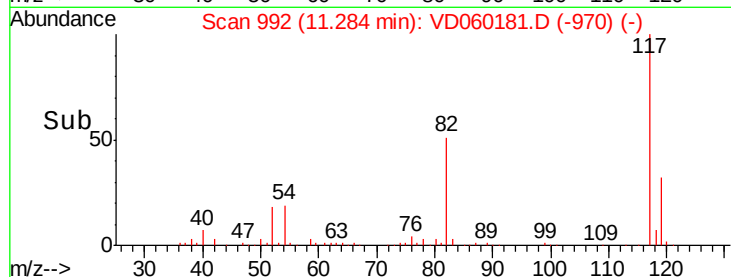
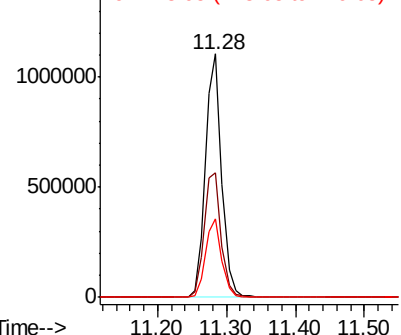
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. 0.02 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Instrument :
MSVOA_D
ClientSampleId :
OR-02-102318-A

Tot Ion:117 Resp: 1795028
Ion Ratio Lower Upper
117 100
82 51.0 43.4 65.2
119 32.3 26.0 39.0

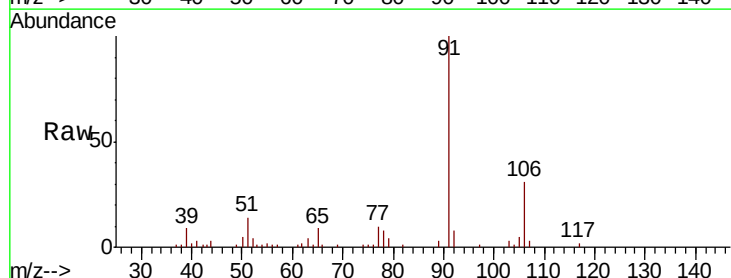


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

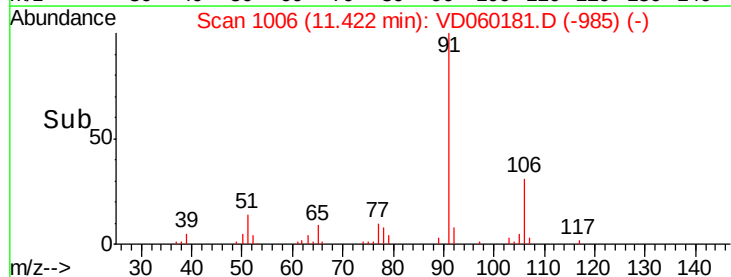
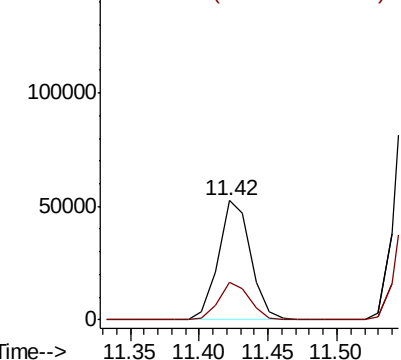


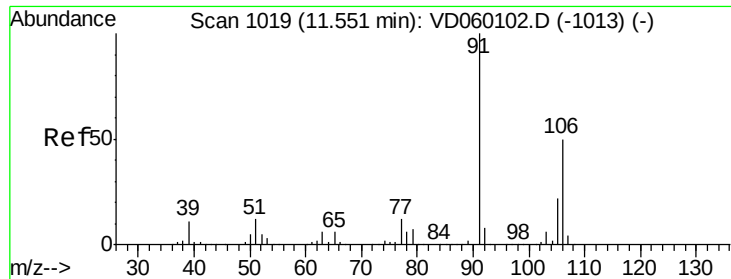
#67
Ethyl Benzene
Concen: 1.362 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.01 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion: 91 Resp: 85717
Ion Ratio Lower Upper
91 100
106 31.4 24.4 36.6



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

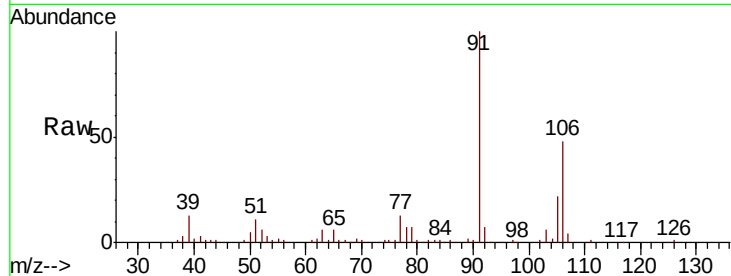




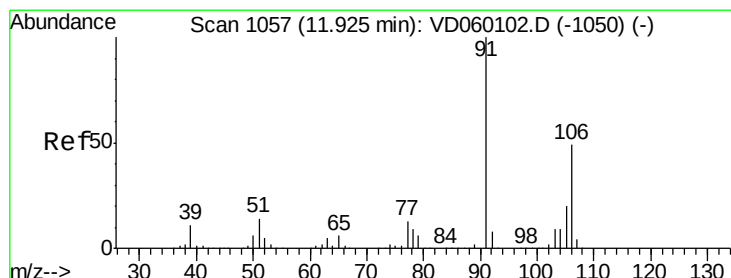
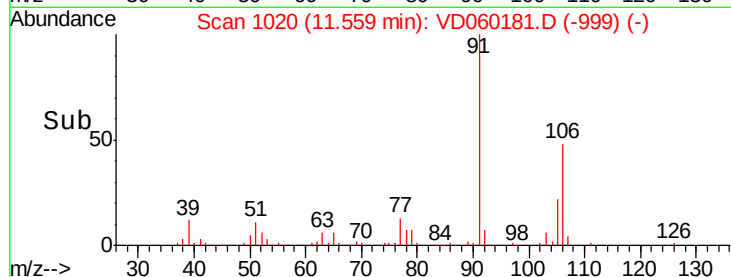
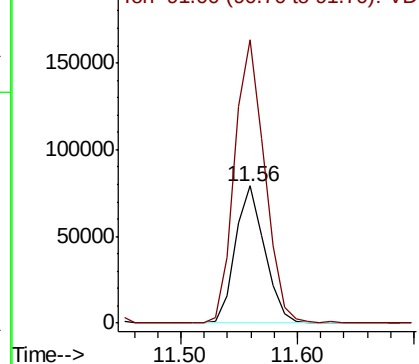
#68
m/p-Xylenes
Concen: 5.854 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Instrument :
MSVOA_D
ClientSampleId :
OR-02-102318-A

Tot Ion:106 Resp: 137612
Ion Ratio Lower Upper
106 100
91 206.2 160.0 240.0

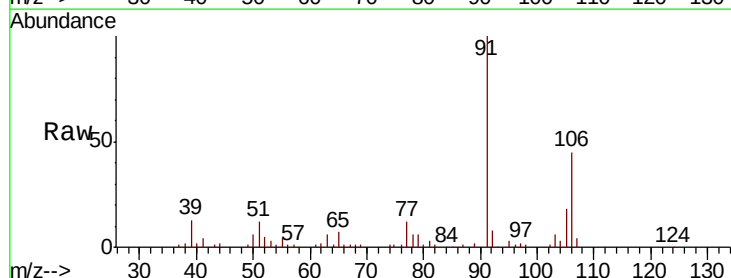


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

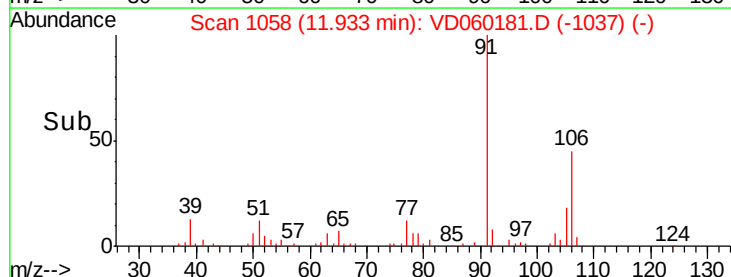
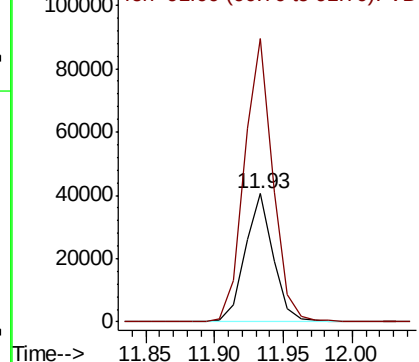


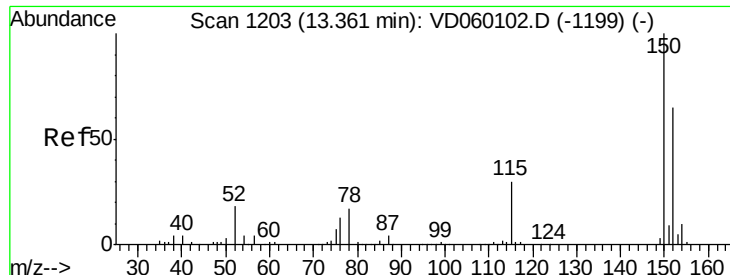
#69
o-Xylene
Concen: 2.469 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VD060181.D
Acq: 24 Oct 2018 14:54

Tgt Ion:106 Resp: 57415
Ion Ratio Lower Upper
106 100
91 220.9 102.5 307.5



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_D

ClientSampleId :

OR-02-102318-A

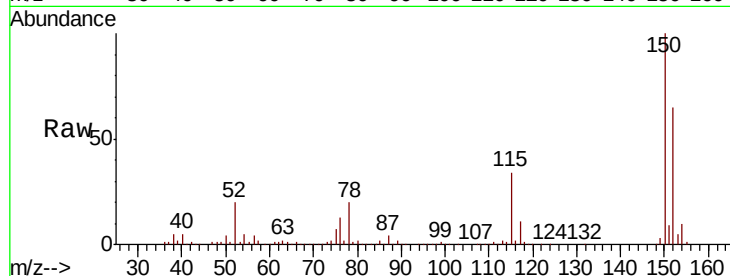
Tot Ion:152 Resp: 696214

Ion Ratio Lower Upper

152 100

115 53.1 27.1 81.2

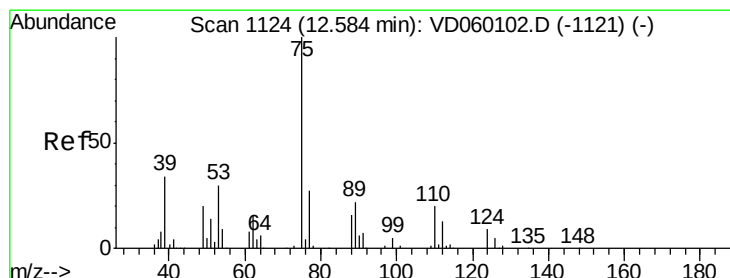
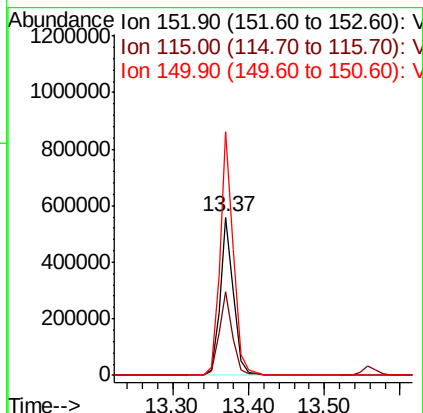
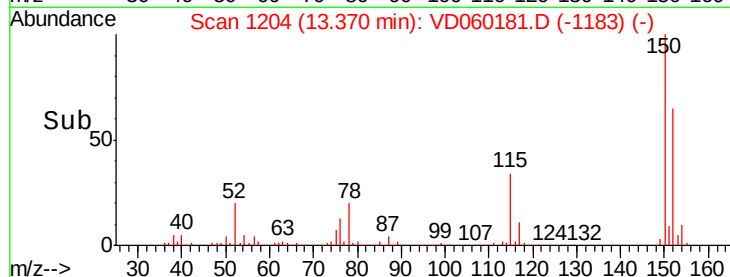
150 154.1 0.0 311.8



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: 29.349 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060181.D

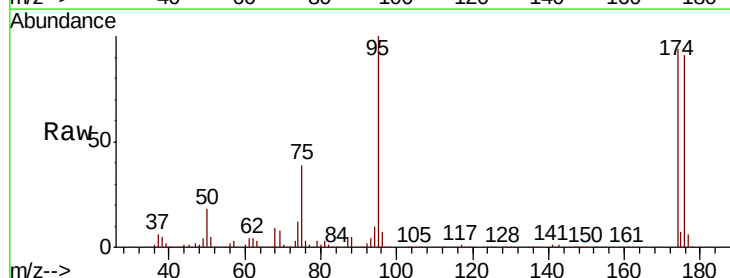
Acq: 24 Oct 2018 14:54

Tgt Ion: 75 Resp: 294262

Ion Ratio Lower Upper

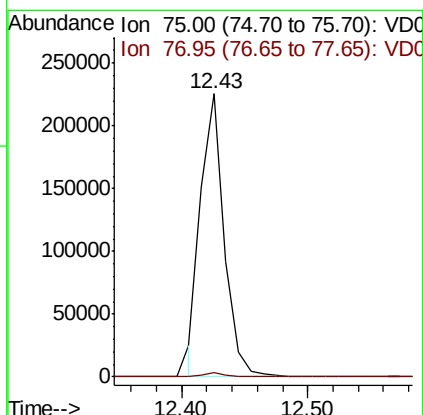
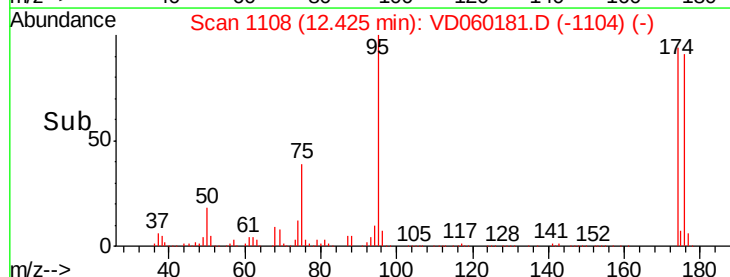
75 100

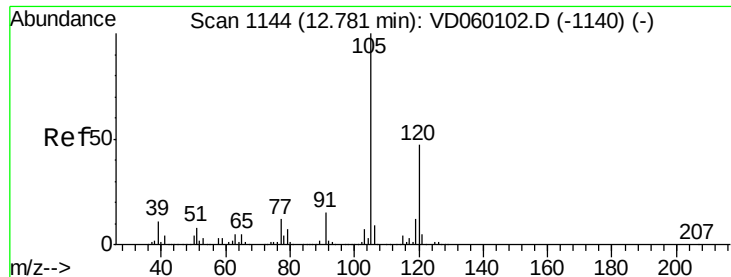
77 1.4 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.235 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_D

ClientSampleId :

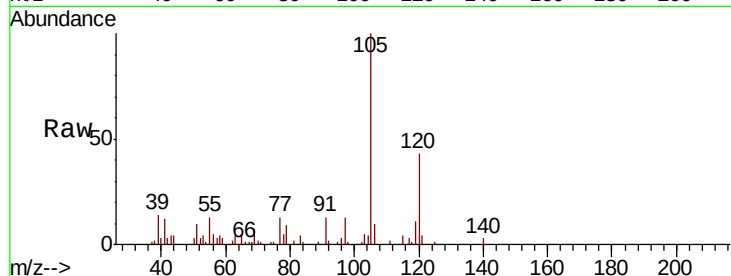
OR-02-102318-A

Tot Ion:105 Resp: 43897

Ion Ratio Lower Upper

105 100

120 43.4 23.7 71.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

12.79

40000

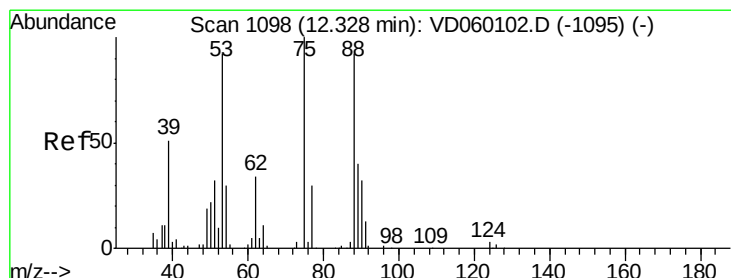
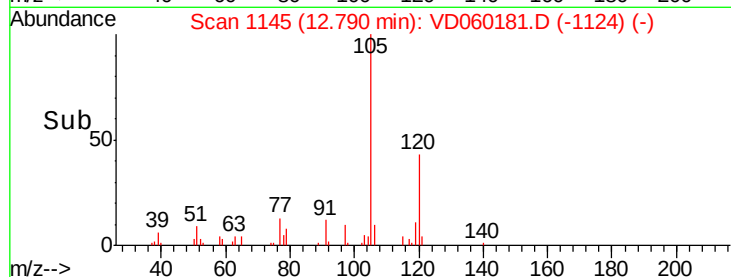
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 109.606 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.10 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

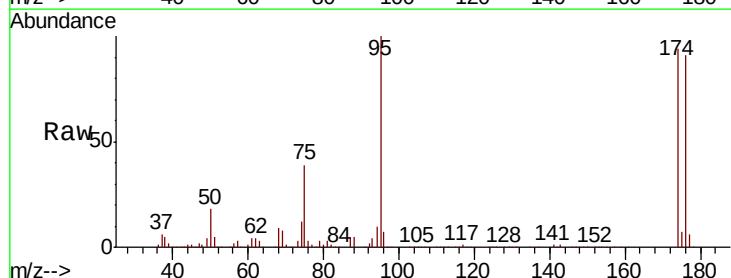
Tgt Ion: 75 Resp: 308791

Ion Ratio Lower Upper

75 100

53 0.2 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

12.43

300000

250000

200000

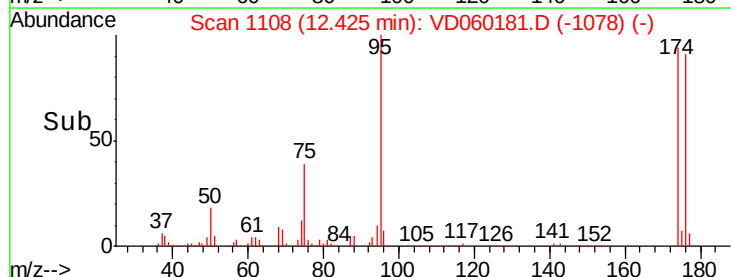
150000

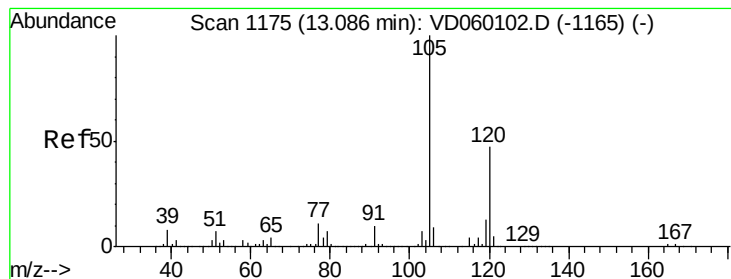
100000

50000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 2.858 ug/l

RT: 13.09 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

Instrument :

MSVOA_D

ClientSampleId :

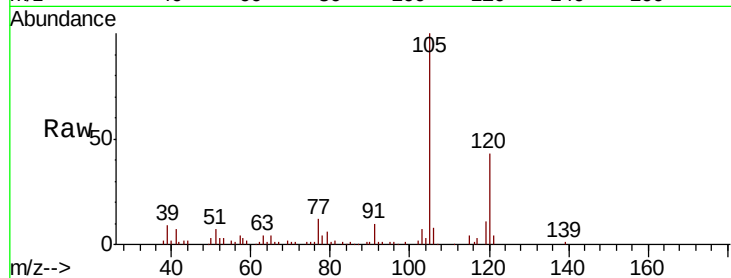
OR-02-102318-A

Tot Ion:105 Resp: 107077

Ion Ratio Lower Upper

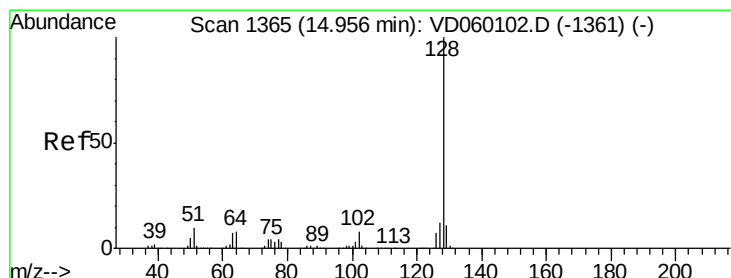
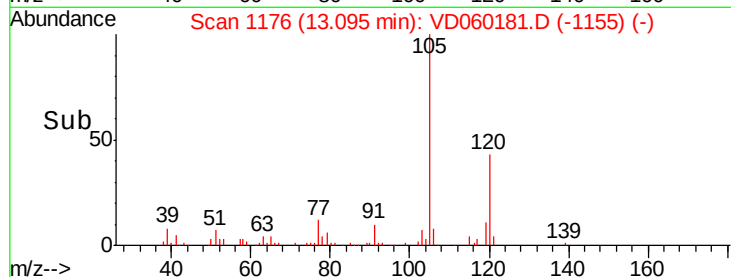
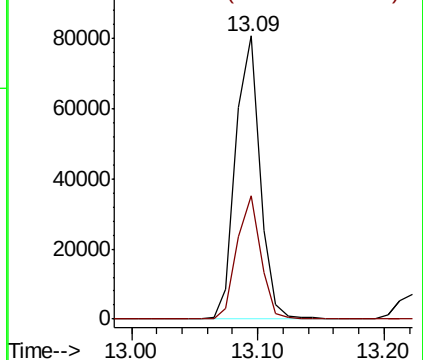
105 100

120 43.5 23.4 70.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#95

Naphthalene

Concen: 71.813 ug/l

RT: 14.96 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VD060181.D

Acq: 24 Oct 2018 14:54

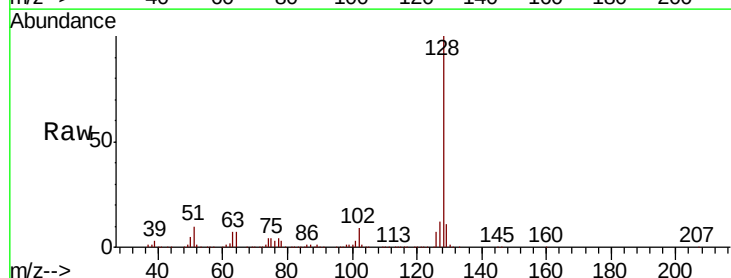
Tgt Ion:128 Resp: 1766648

Ion Ratio Lower Upper

128 100

127 12.4 9.9 14.9

129 11.2 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

