

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD110118\
 Data File : VD060270.D
 Acq On : 1 Nov 2018 18:57
 Operator : VA/AP
 Sample : J5200-19
 Misc : 6.83g/5ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

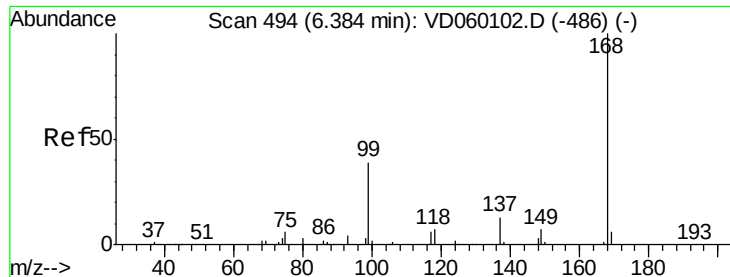
Quant Time: Nov 02 02:42:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 06:56:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	363204	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	7.44	114	582681	50.00	ug/l	0.02
63) Chlorobenzene-d5	11.29	117	525260	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	249383	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.78	65	238036	86.46	ug/l	0.02
Spiked Amount			Recovery	=	172.92%	
35) Dibromofluoromethane	6.32	113	225505	50.96	ug/l	0.02
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	9.46	98	503413	39.90	ug/l	0.02
Spiked Amount			Recovery	=	79.80%	
62) 4-Bromofluorobenzene	12.43	95	197421	41.79	ug/l	0.01
Spiked Amount			Recovery	=	83.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	834	2.634	ug/l #	1
8) Diethyl Ether	2.81	74	1412	2.275	ug/l #	24
11) Tert butyl alcohol	3.87	59	198	1.003	ug/l #	74
16) Acetone	3.15	43	70190	140.502	ug/l	97
18) Methyl Acetate	3.55	43	3267	3.043	ug/l #	63
20) Methylene Chloride	3.71	84	11247	Below Cal		94
25) 2-Butanone	5.62	43	26549	21.273	ug/l #	91
29) Tetrahydrofuran	5.95	42	2379	3.282	ug/l #	63
31) Cyclohexane	6.39	56	7767	1.302	ug/l #	1
36) 1,1-Dichloropropene	6.40	75	25400	4.562	ug/l #	45
37) Ethyl Acetate	5.62	43	26549	7.183	ug/l #	71
38) Carbon Tetrachloride	6.40	117	27448	5.431	ug/l #	16
52) Toluene	9.55	92	62180	6.628	ug/l	93
68) m/p-Xylenes	11.56	106	26697	3.881	ug/l	86
69) o-Xylene	11.94	106	13576	1.995	ug/l	73
76) 1,2,3-Trichloropropane	12.43	75	79437	22.119	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.79	105	20101	1.579	ug/l	87
81) trans-1,4-Dichloro-2-buten	12.43	75	81289	80.553	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.10	105	81811	6.096	ug/l	94
89) n-Butylbenzene	13.65	91	23344	1.688	ug/l	92
95) Naphthalene	14.97	128	206172	23.397	ug/l	99

(#) = 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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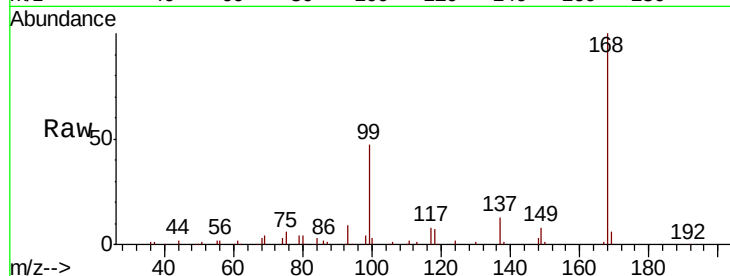
OR-03-103118-B

Tgt Ion: 168 Resp: 363204

Ion Ratio Lower Upper

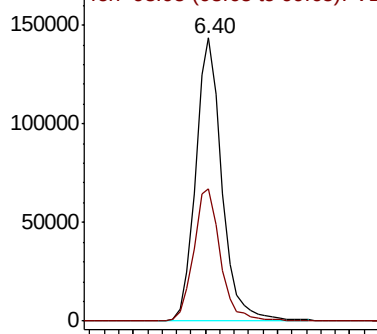
168 100

99 46.9 35.4 53.0

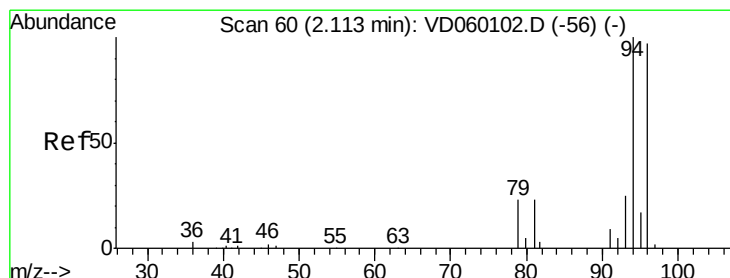
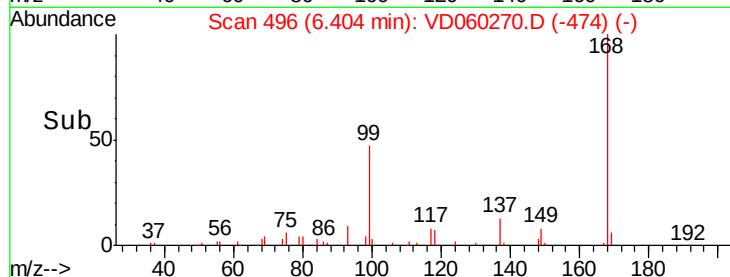


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



Time-->



#5

Bromomethane

Concen: 2.634 ug/l

RT: 2.15 min Scan# 64

Delta R.T. 0.04 min

Lab File: VD060270.D

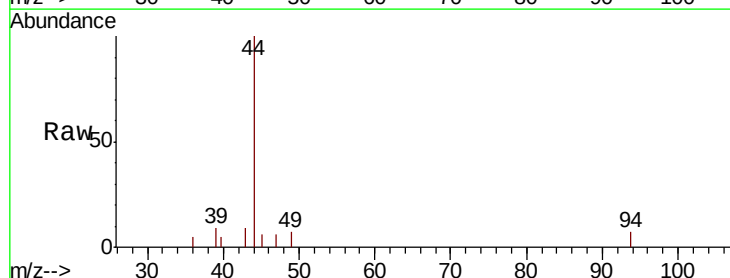
Acq: 1 Nov 2018 18:57

Tgt Ion: 94 Resp: 834

Ion Ratio Lower Upper

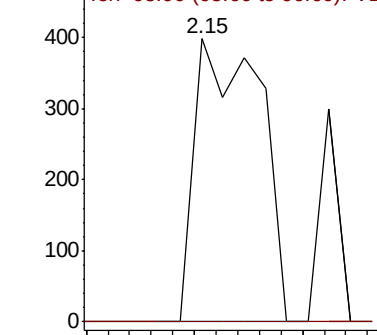
94 100

96 0.0 77.4 116.2#

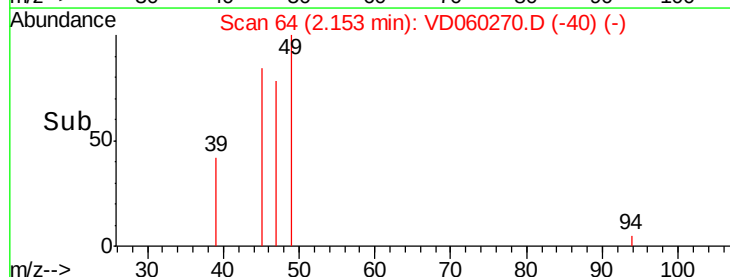


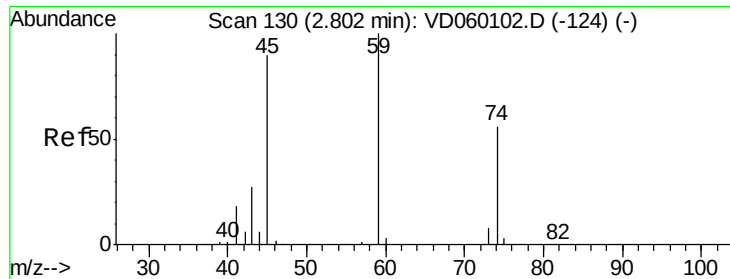
Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->





#8

Diethyl Ether

Concen: 2.275 ug/l

RT: 2.81 min Scan# 131

Delta R.T. 0.01 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

Instrument :

MSVOA_D

ClientSampleId :

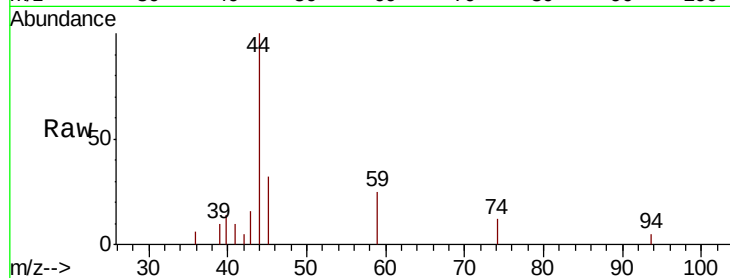
OR-03-103118-B

Tgt Ion: 74 Resp: 1412

Ion Ratio Lower Upper

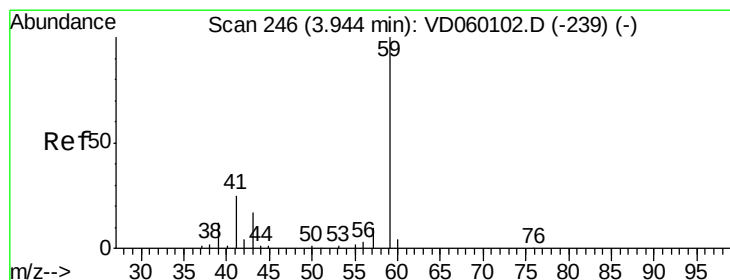
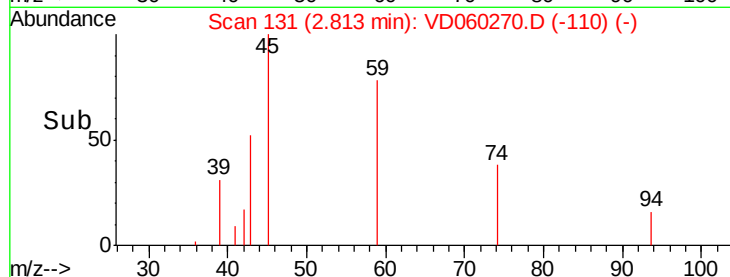
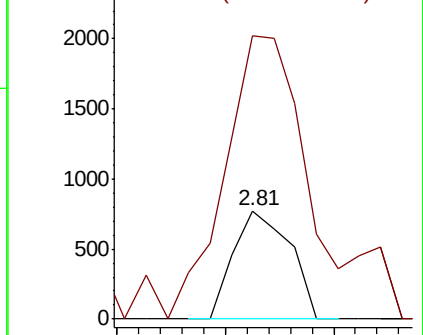
74 100

45 261.3 80.3 241.0#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.003 ug/l

RT: 3.87 min Scan# 238

Delta R.T. -0.08 min

Lab File: VD060270.D

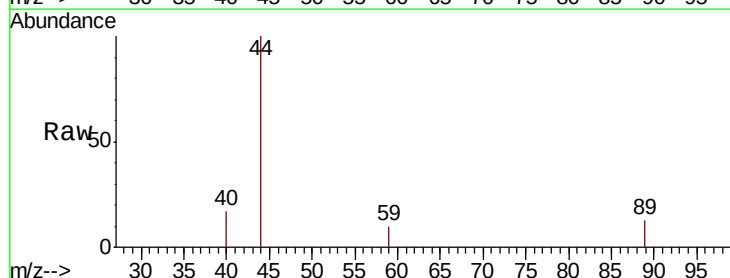
Acq: 1 Nov 2018 18:57

Tgt Ion: 59 Resp: 198

Ion Ratio Lower Upper

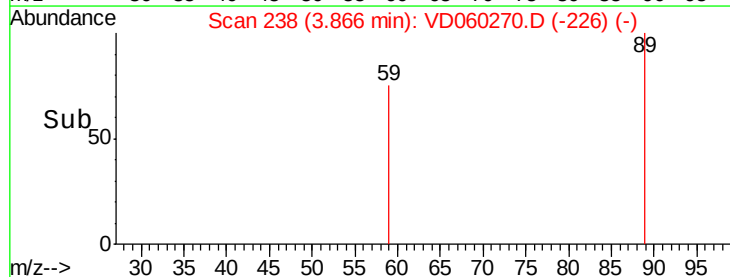
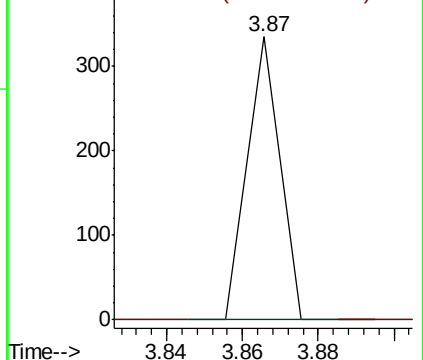
59 100

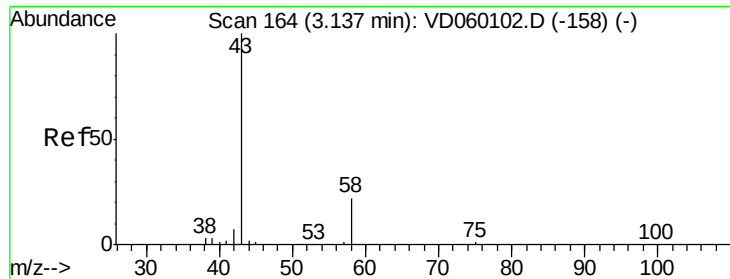
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 140.502 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

Instrument :

MSVOA_D

ClientSampleId :

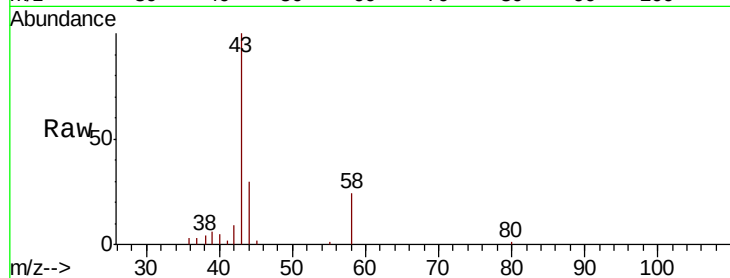
OR-03-103118-B

Tgt Ion: 43 Resp: 70190

Ion Ratio Lower Upper

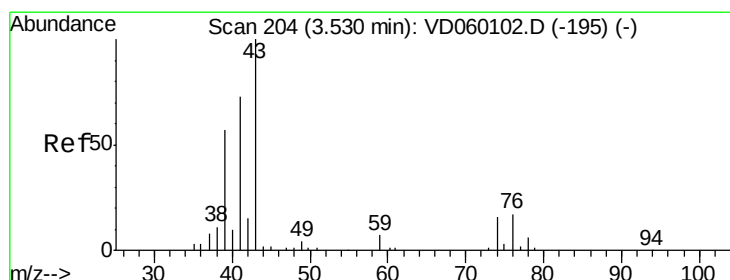
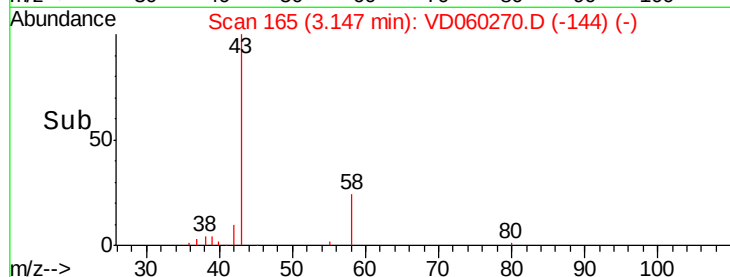
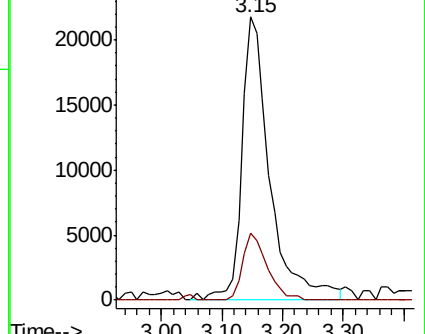
43 100

58 23.7 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 3.043 ug/l

RT: 3.55 min Scan# 206

Delta R.T. 0.02 min

Lab File: VD060270.D

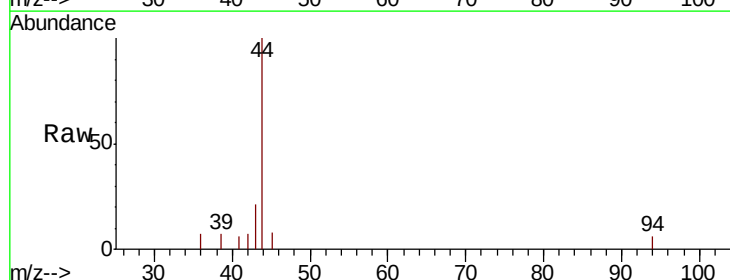
Acq: 1 Nov 2018 18:57

Tgt Ion: 43 Resp: 3267

Ion Ratio Lower Upper

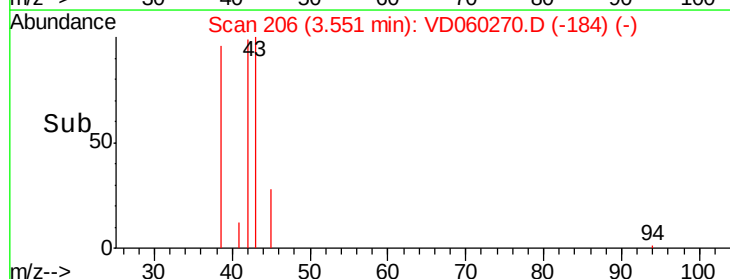
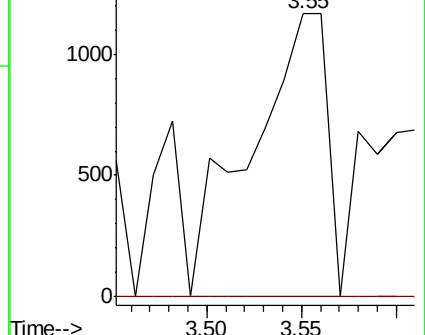
43 100

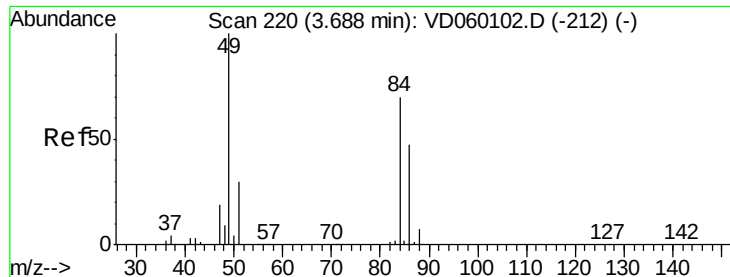
74 0.0 12.6 19.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

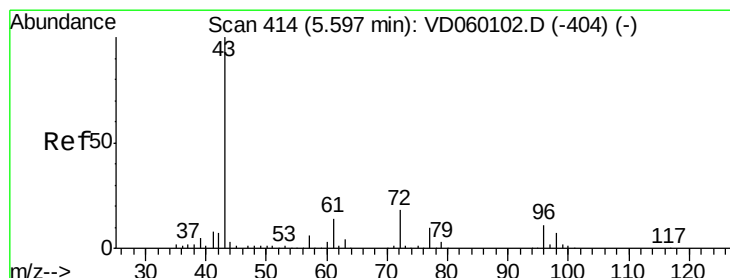
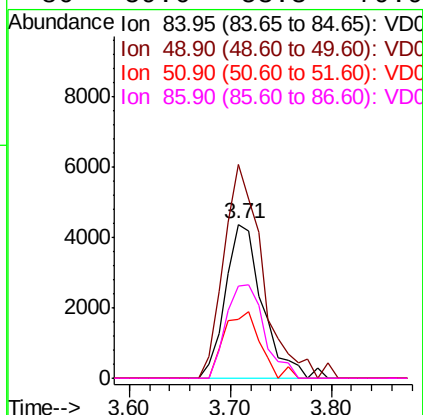
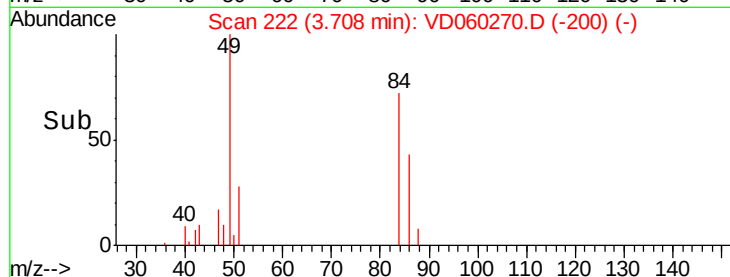
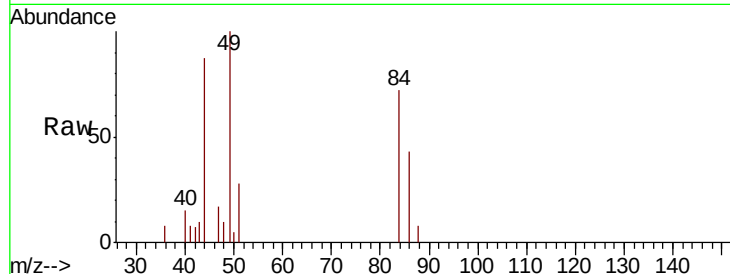




#20
Methylene Chloride
Concen: Below Cal
RT: 3.71 min Scan# 222
Delta R.T. 0.02 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

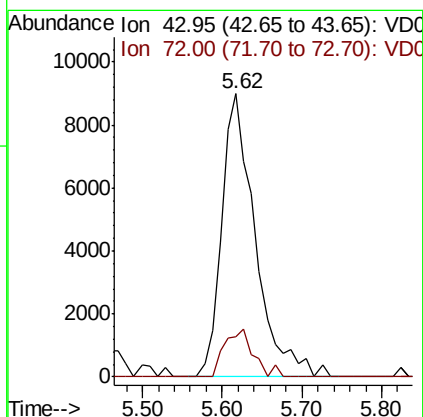
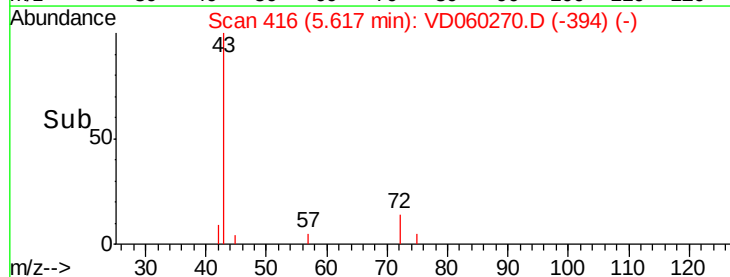
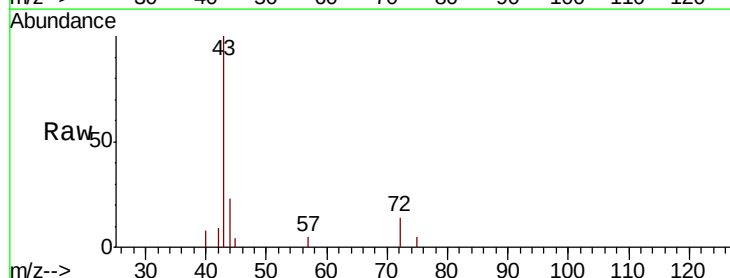
Instrument :
MSVOA_D
ClientSampleId :
OR-03-103118-B

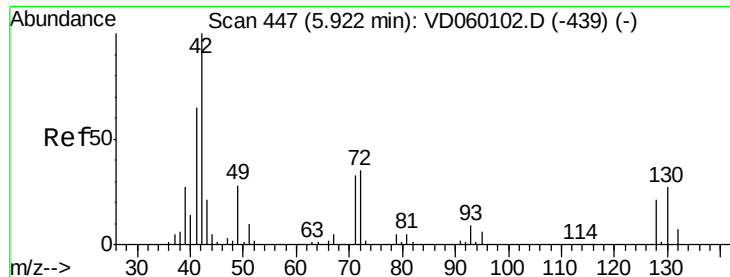
Tgt Ion: 84 Resp: 11247
Ion Ratio Lower Upper
84 100
49 138.5 114.6 172.0
51 38.2 33.8 50.8
86 59.6 53.3 79.9



#25
2-Butanone
Concen: 21.273 ug/l
RT: 5.62 min Scan# 416
Delta R.T. 0.02 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Tgt Ion: 43 Resp: 26549
Ion Ratio Lower Upper
43 100
72 14.2 14.5 21.7#





#29

Tetrahydrofuran

Concen: 3.282 ug/l

RT: 5.95 min Scan# 450

Delta R.T. 0.03 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

Instrument :

MSVOA_D

ClientSampleId :

OR-03-103118-B

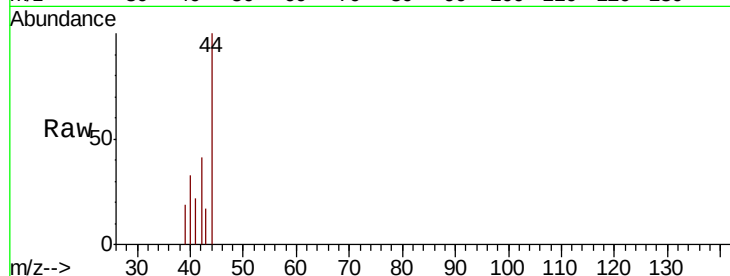
Tgt Ion: 42 Resp: 2379

Ion Ratio Lower Upper

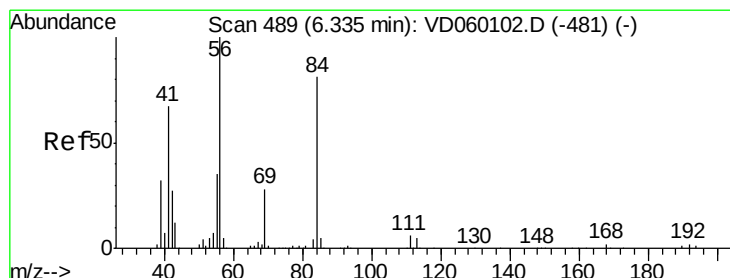
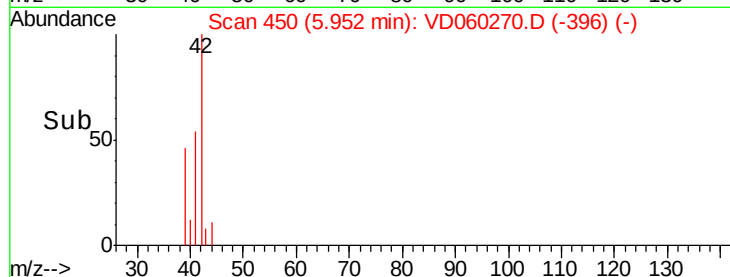
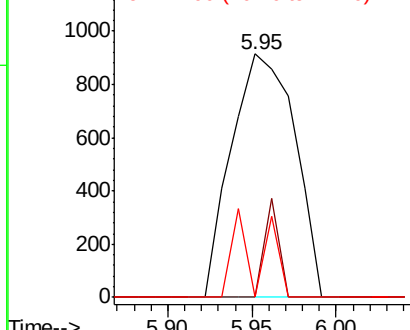
42 100

72 9.2 26.9 40.3#

71 15.9 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: 1.302 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.06 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

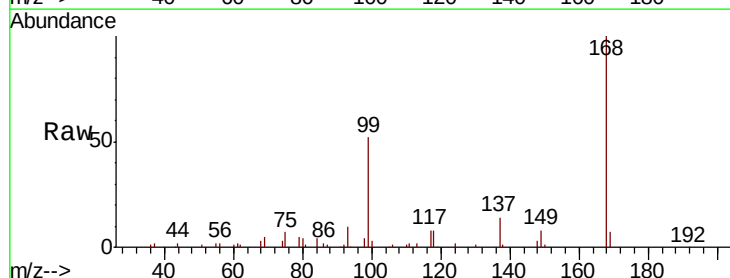
Tgt Ion: 56 Resp: 7767

Ion Ratio Lower Upper

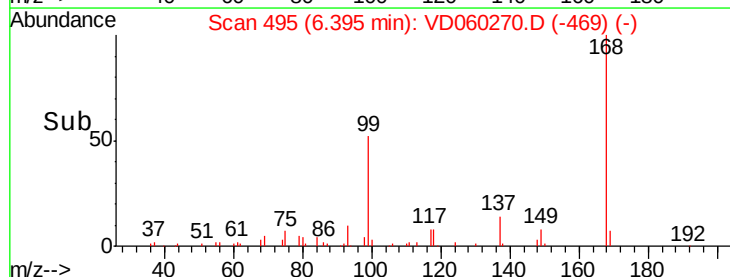
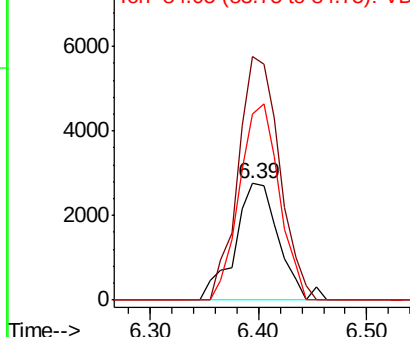
56 100

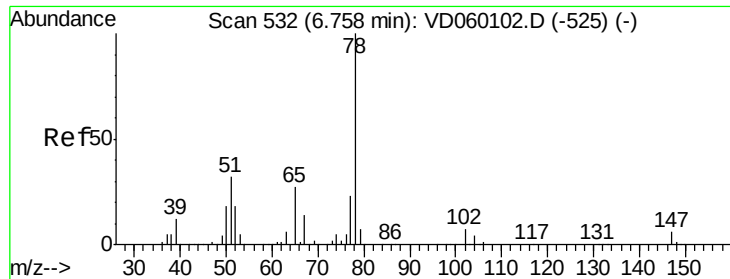
69 208.5 22.8 34.2#

84 159.0 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

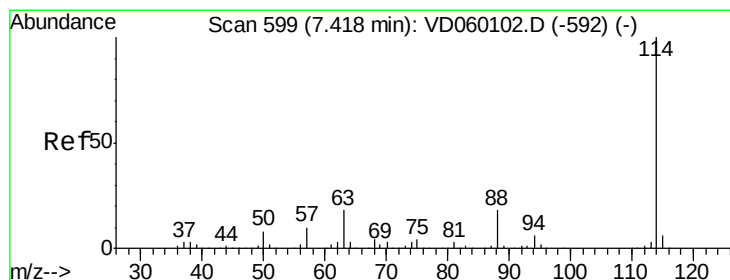
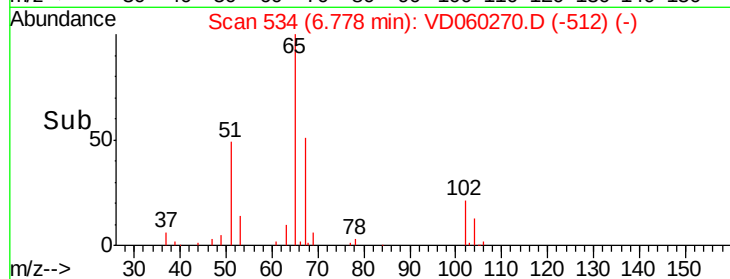
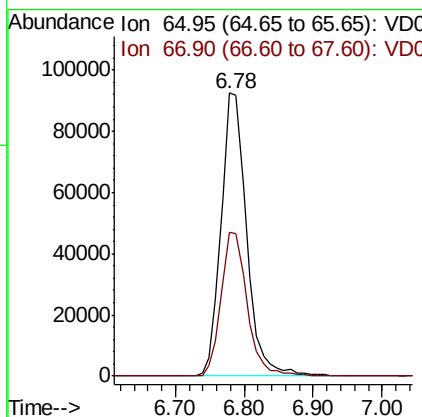
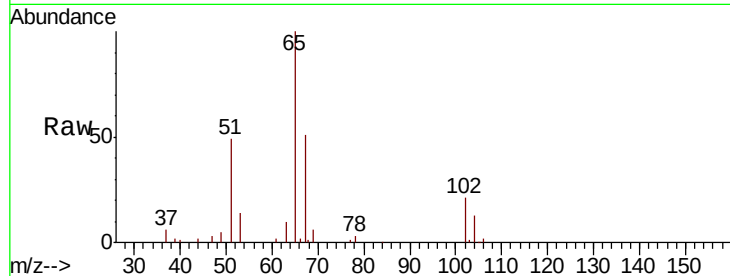




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.78 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

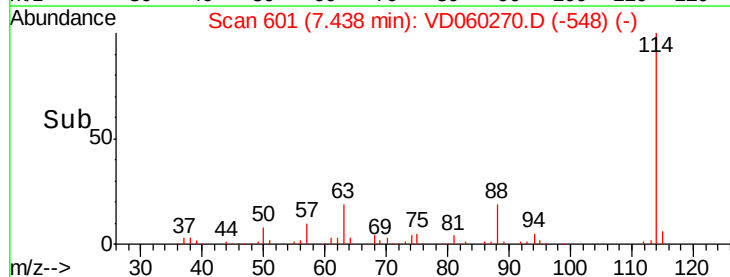
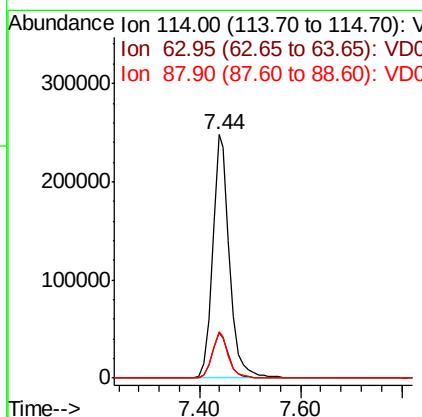
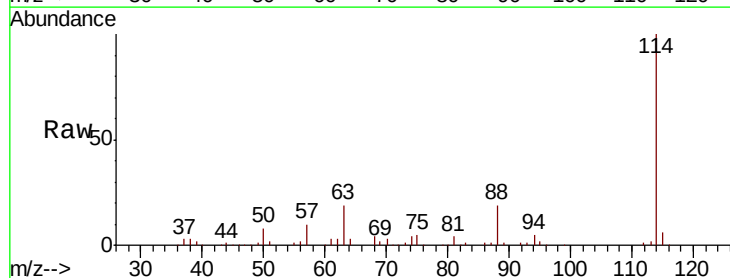
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

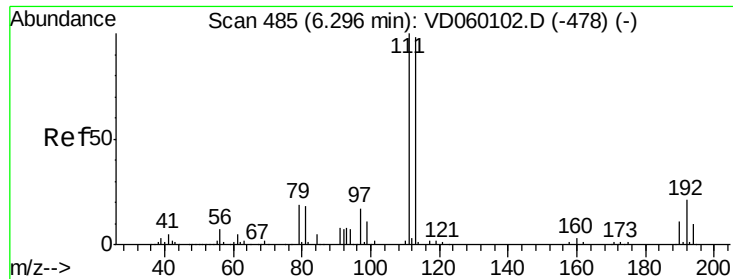
Tgt Ion: 65 Resp: 238036
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. 0.02 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

Tgt Ion: 114 Resp: 582681
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 36.0
 88 19.1 0.0 36.2

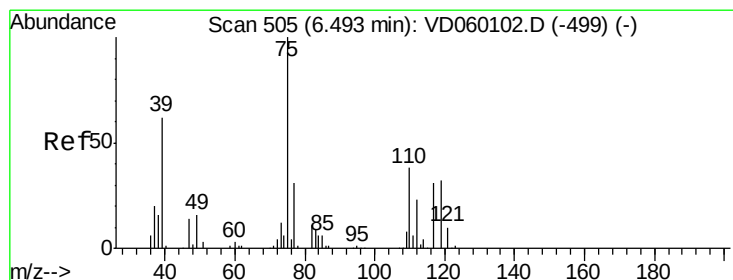
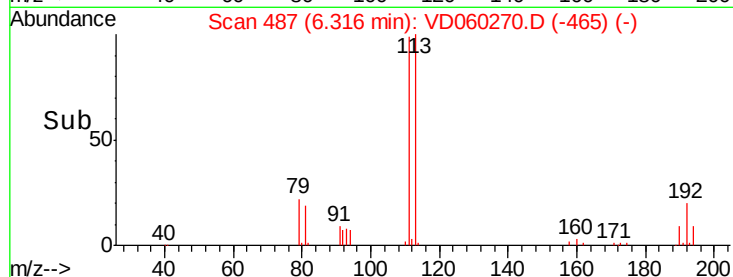
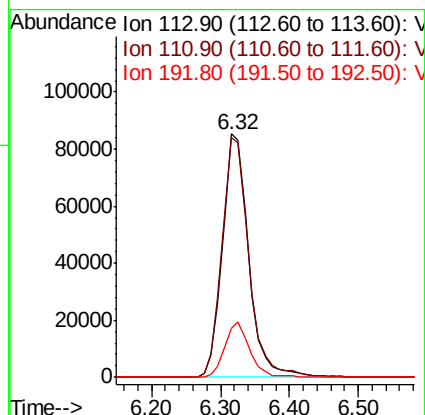
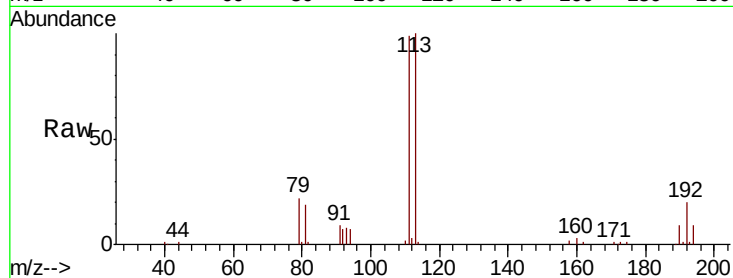




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.32 min Scan# 487
Delta R.T. 0.02 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

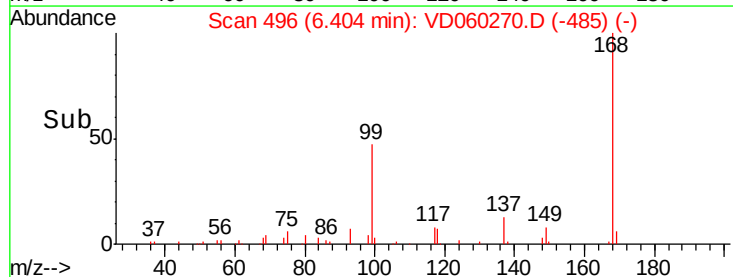
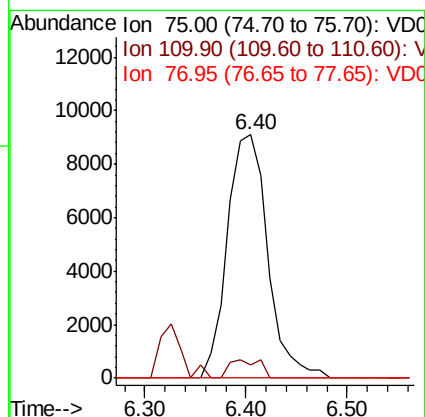
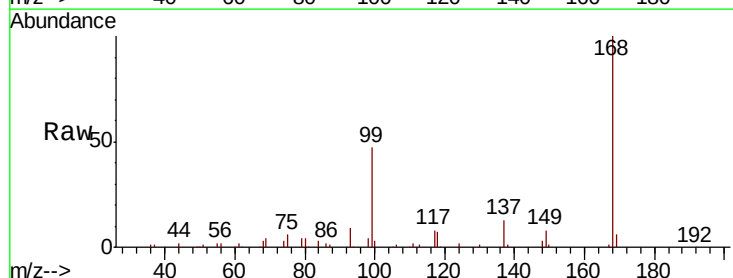
Instrument :
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ClientSampleId :
OR-03-103118-B

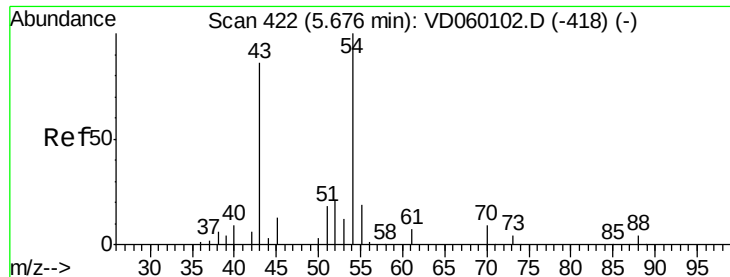
Tgt Ion: 113 Resp: 225505
Ion Ratio Lower Upper
113 100
111 98.7 81.5 122.3
192 20.1 17.4 26.0



#36
1,1-Dichloropropene
Concen: 4.562 ug/l
RT: 6.40 min Scan# 496
Delta R.T. -0.09 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Tgt Ion: 75 Resp: 25400
Ion Ratio Lower Upper
75 100
110 5.3 19.0 57.0#
77 0.0 24.9 37.3#

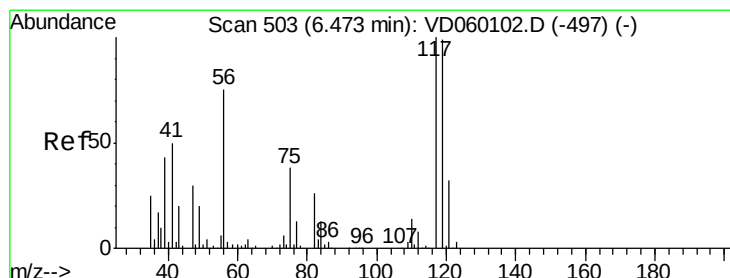
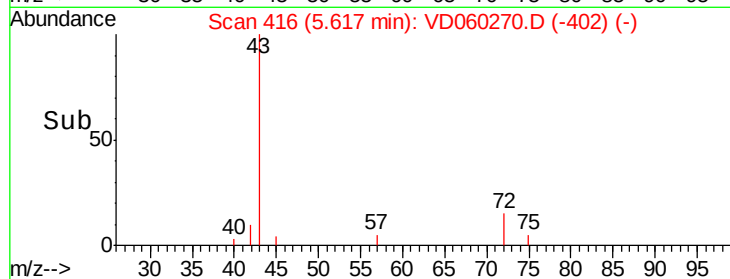
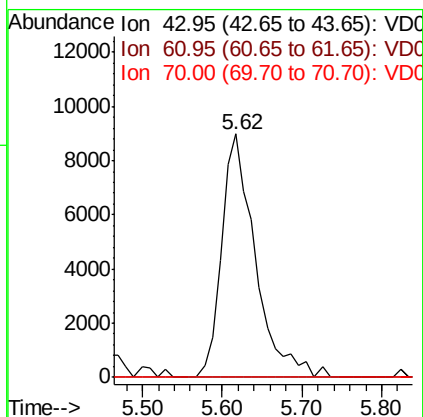
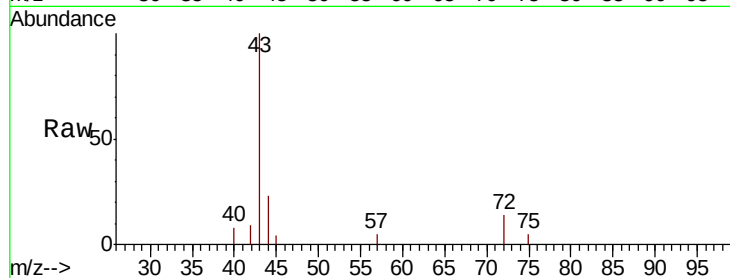




#37
 Ethyl Acetate
 Concen: 7.183 ug/l
 RT: 5.62 min Scan# 416
 Delta R.T. -0.06 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

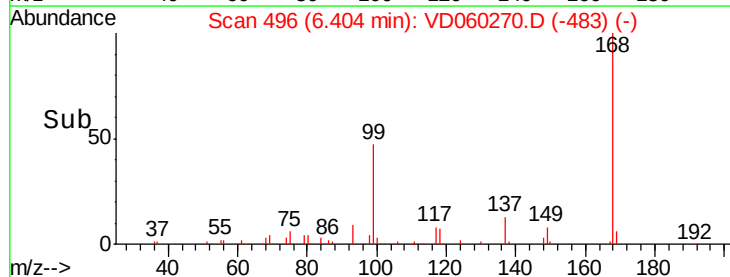
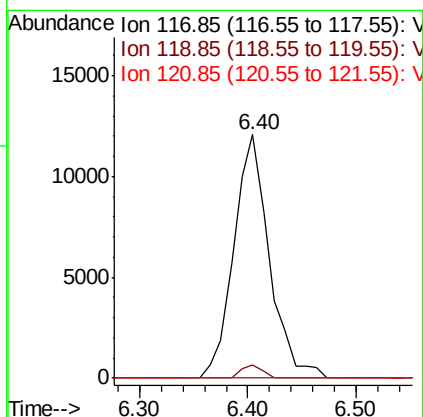
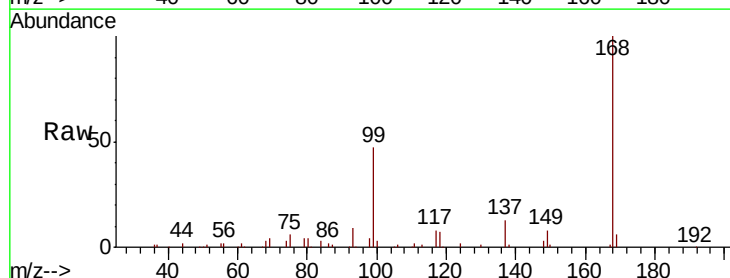
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

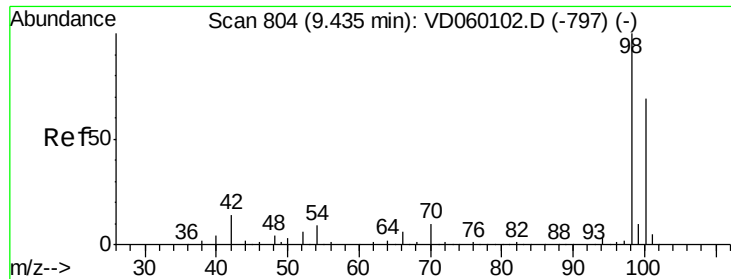
Tgt Ion: 43 Resp: 26549
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.5 15.7#
 70 0.0 6.3 9.5#



#38
 Carbon Tetrachloride
 Concen: 5.431 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.07 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

Tgt Ion: 117 Resp: 27448
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.8 116.6#
 121 0.0 24.8 37.2#

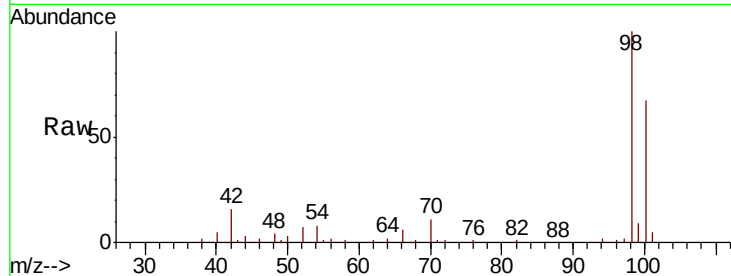




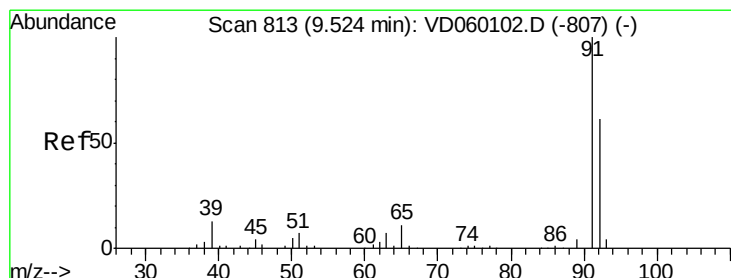
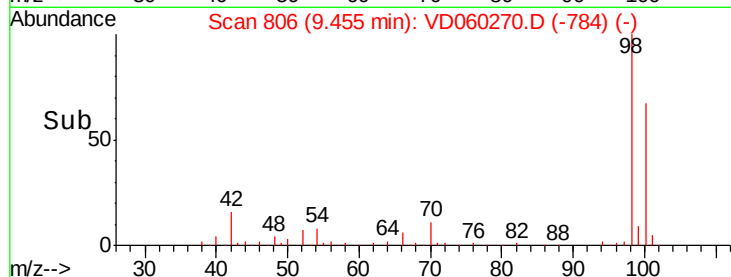
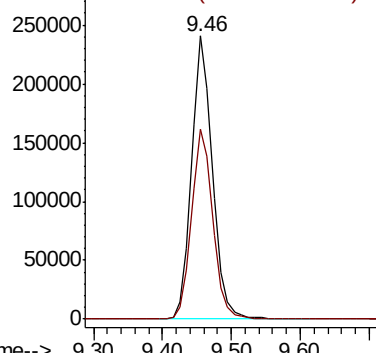
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 806
Delta R.T. 0.02 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Instrument :
MSVOA_D
ClientSampleId :
OR-03-103118-B

Tgt Ion: 98 Resp: 503413
Ion Ratio Lower Upper
98 100
100 66.9 55.4 83.0

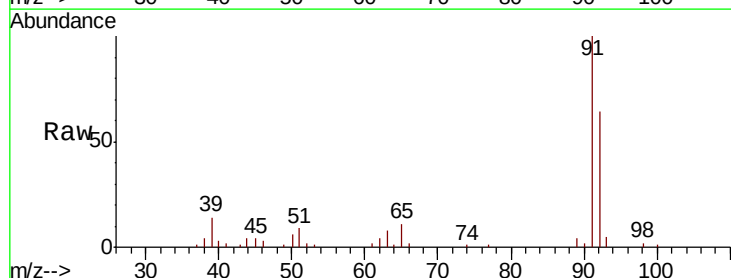


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

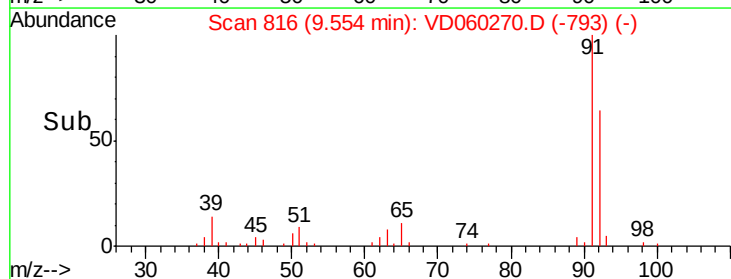
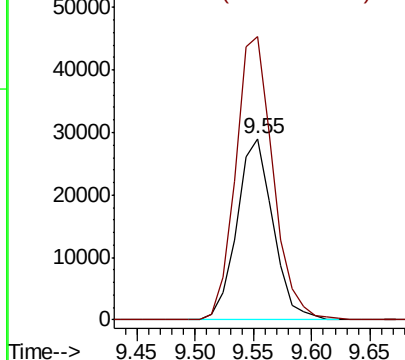


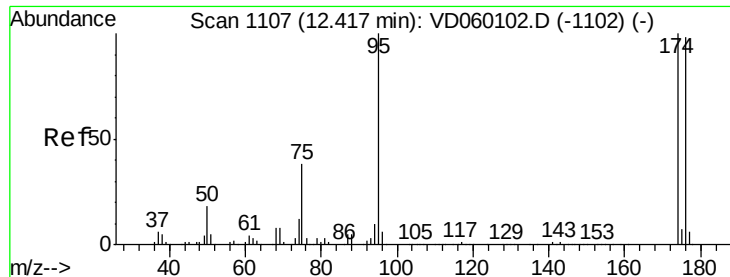
#52
Toluene
Concen: 6.628 ug/l
RT: 9.55 min Scan# 816
Delta R.T. 0.03 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Tgt Ion: 92 Resp: 62180
Ion Ratio Lower Upper
92 100
91 155.8 131.9 197.9



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: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

Instrument :

MSVOA_D

ClientSampleId :

OR-03-103118-B

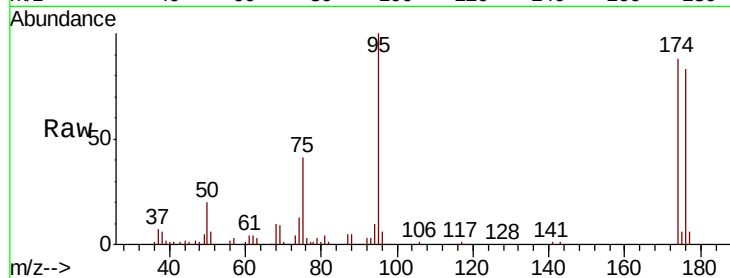
Tgt Ion: 95 Resp: 197421

Ion Ratio Lower Upper

95 100

174 87.5 0.0 200.2

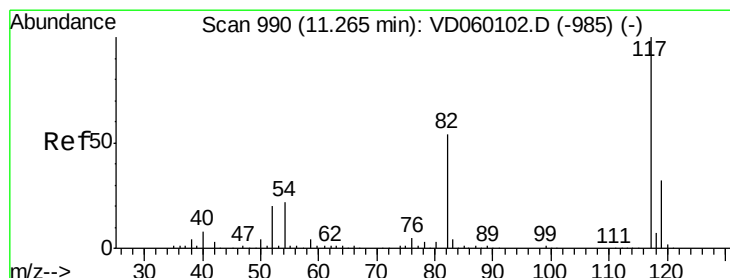
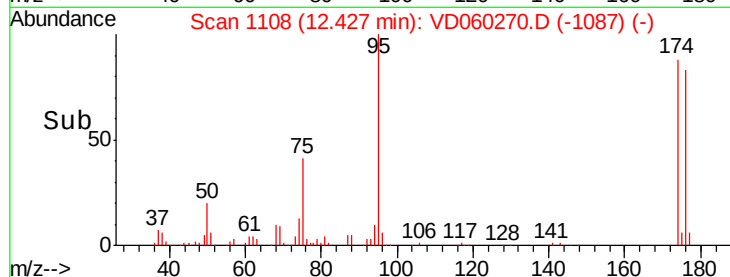
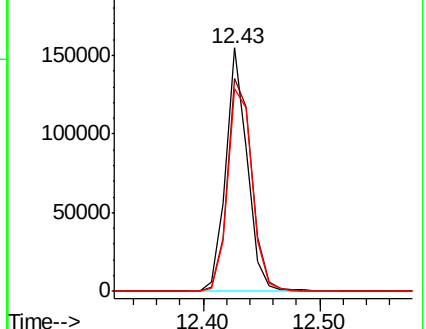
176 83.2 0.0 195.6



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: 11.29 min Scan# 992

Delta R.T. 0.02 min

Lab File: VD060270.D

Acq: 1 Nov 2018 18:57

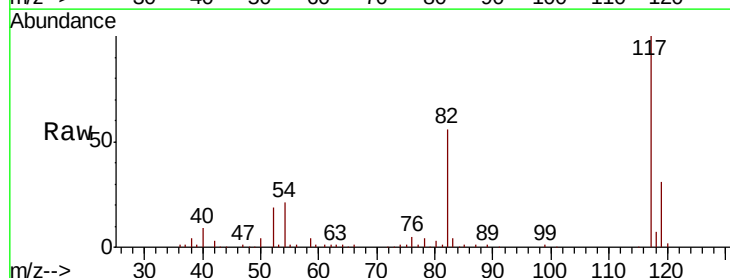
Tgt Ion: 117 Resp: 525260

Ion Ratio Lower Upper

117 100

82 56.3 43.4 65.2

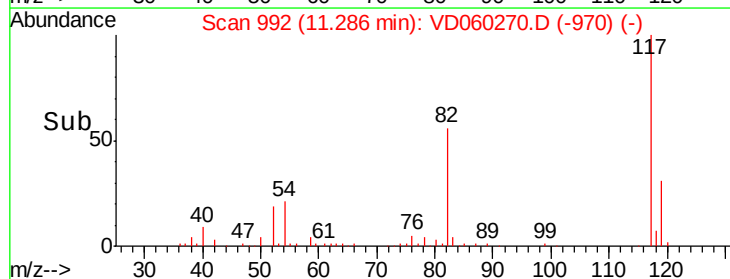
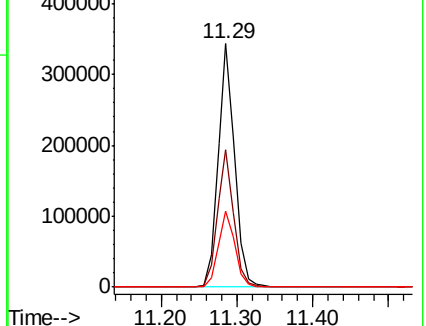
119 31.4 26.0 39.0

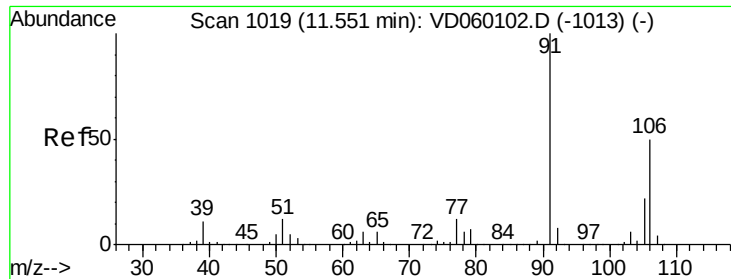


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

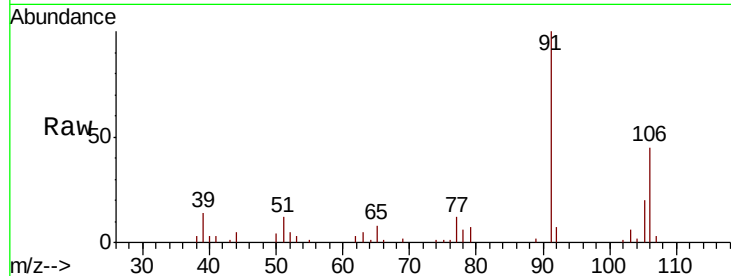




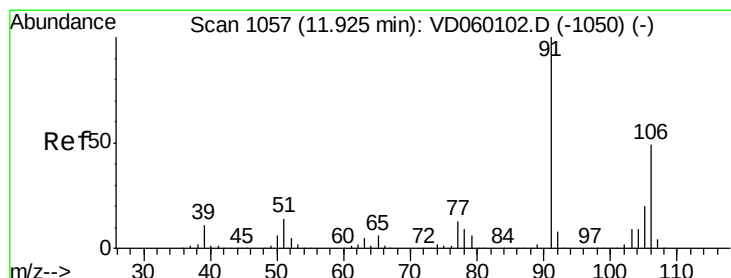
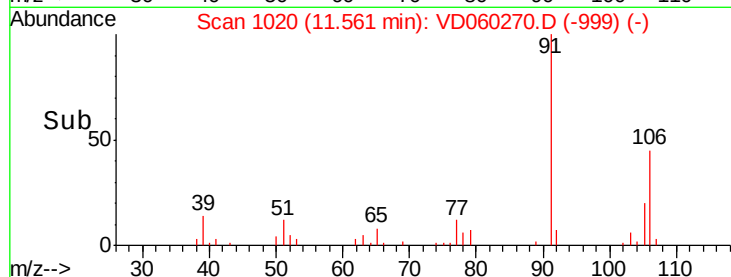
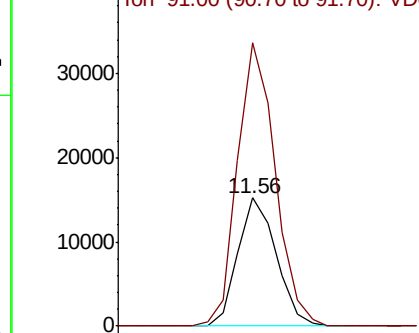
#68
m/p-Xylenes
Concen: 3.881 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Instrument :
MSVOA_D
ClientSampleId :
OR-03-103118-B

Tgt Ion:106 Resp: 26697
Ion Ratio Lower Upper
106 100
91 221.3 160.0 240.0

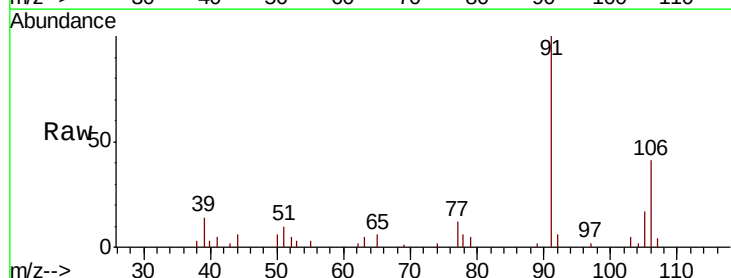


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

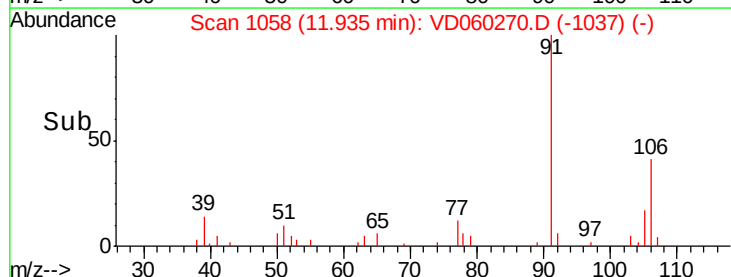
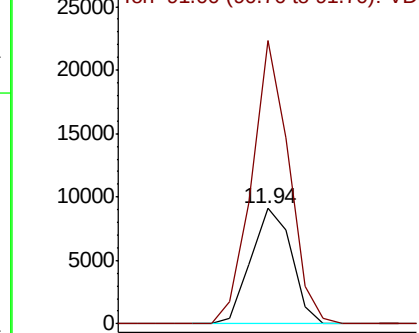


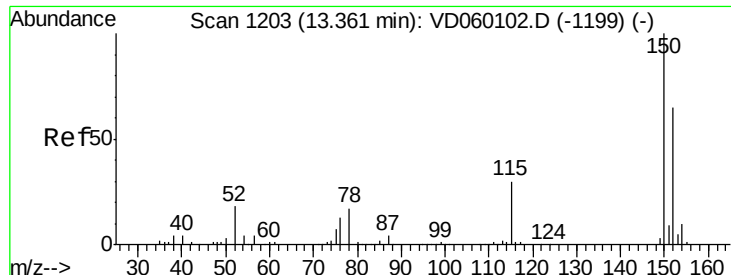
#69
o-Xylene
Concen: 1.995 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VD060270.D
Acq: 1 Nov 2018 18:57

Tgt Ion:106 Resp: 13576
Ion Ratio Lower Upper
106 100
91 245.8 102.5 307.5



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): 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: VD060270.D

Acq: 1 Nov 2018 18:57

Instrument :

MSVOA_D

ClientSampleId :

OR-03-103118-B

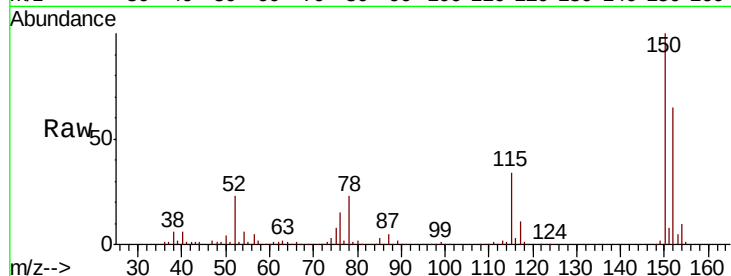
Tgt Ion:152 Resp: 249383

Ion Ratio Lower Upper

152 100

115 52.8 27.1 81.2

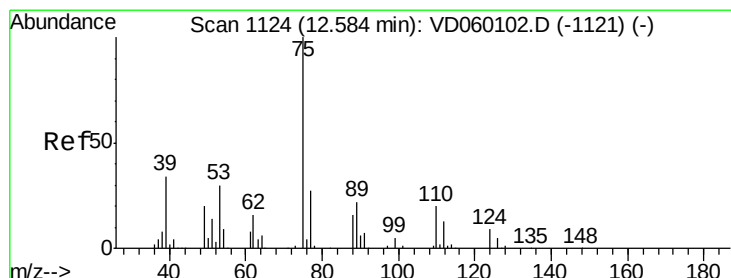
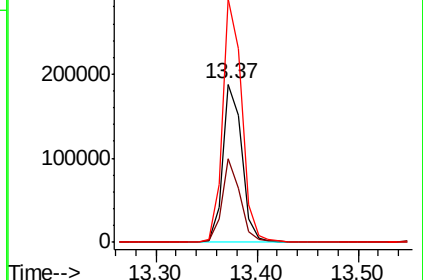
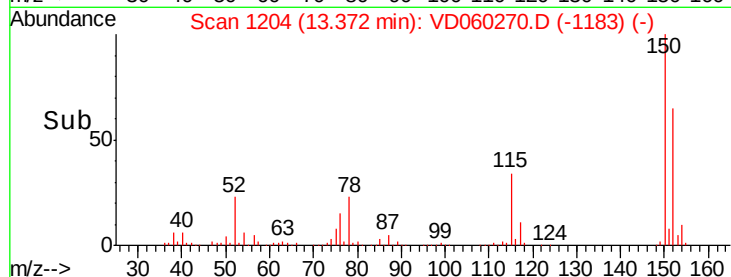
150 154.1 0.0 311.8



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: 22.119 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060270.D

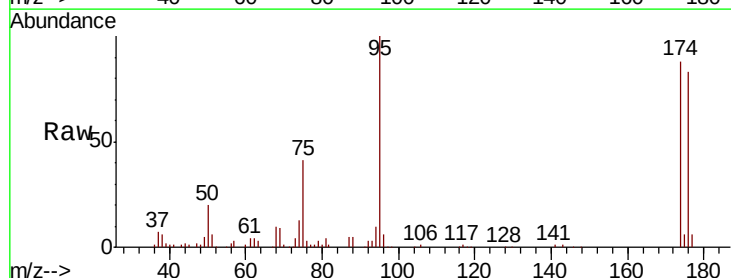
Acq: 1 Nov 2018 18:57

Tgt Ion: 75 Resp: 79437

Ion Ratio Lower Upper

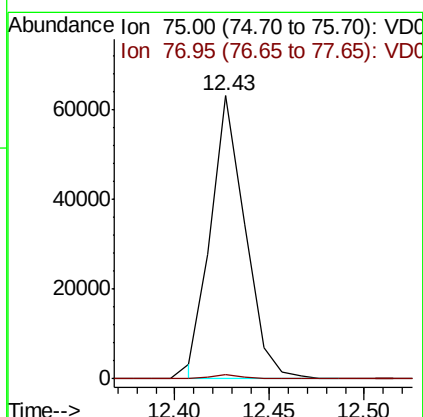
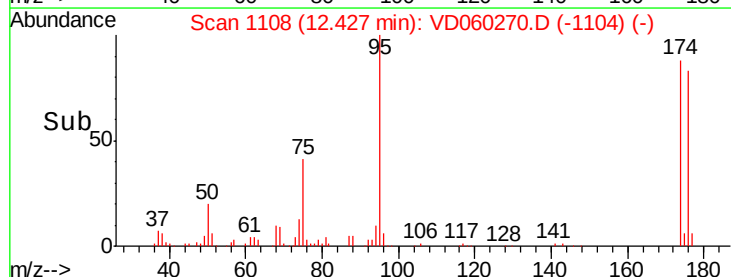
75 100

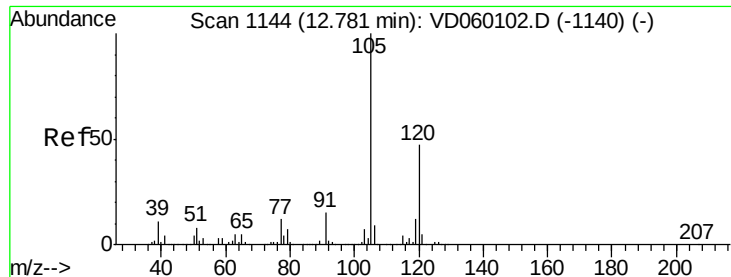
77 1.7 16.3 48.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

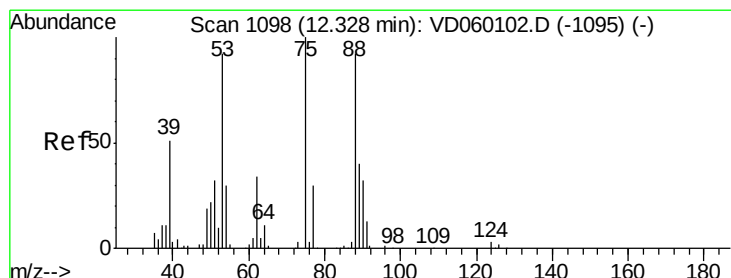
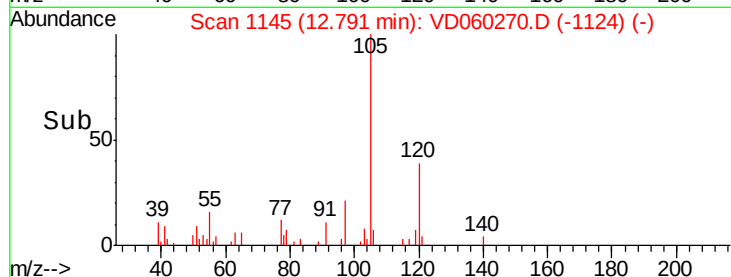
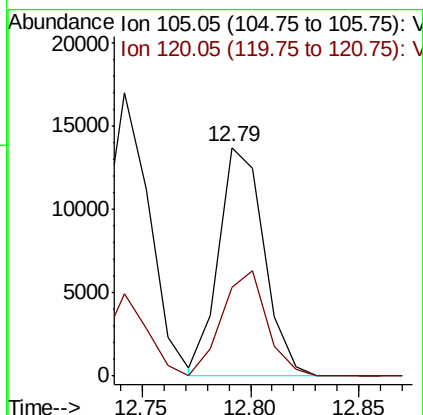
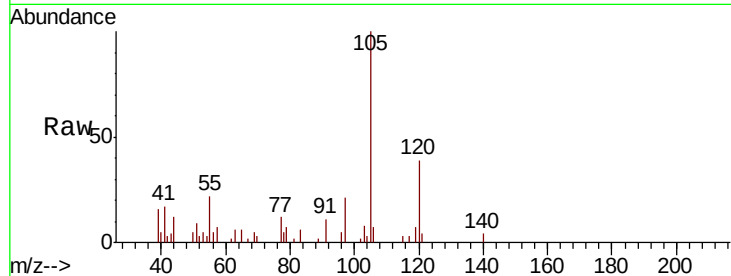




#80
 1,3,5-Trimethylbenzene
 Concen: 1.579 ug/l
 RT: 12.79 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

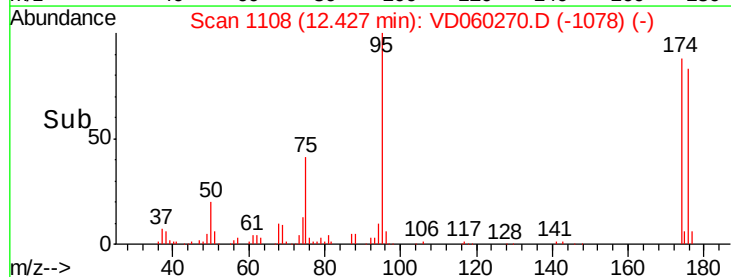
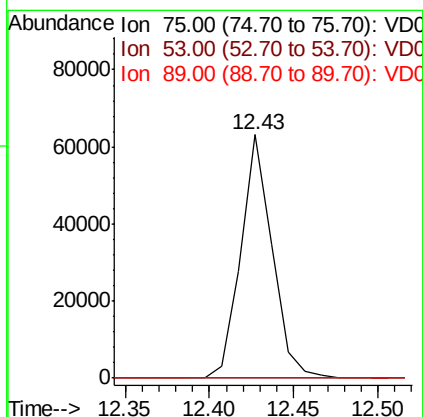
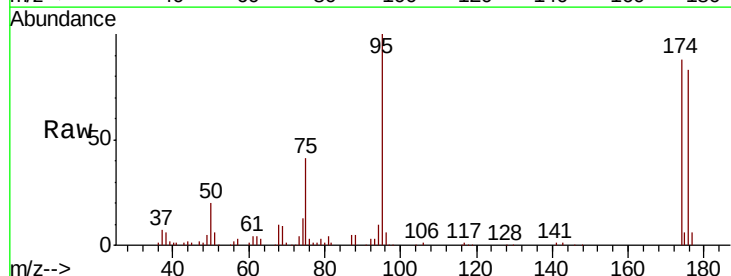
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

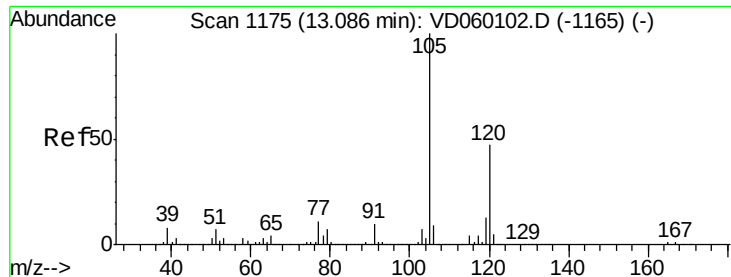
Tgt Ion:105 Resp: 20101
 Ion Ratio Lower Upper
 105 100
 120 39.0 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.553 ug/l
 RT: 12.43 min Scan# 1108
 Delta R.T. 0.10 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

Tgt Ion: 75 Resp: 81289
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.6#
 89 0.0 32.0 48.0#

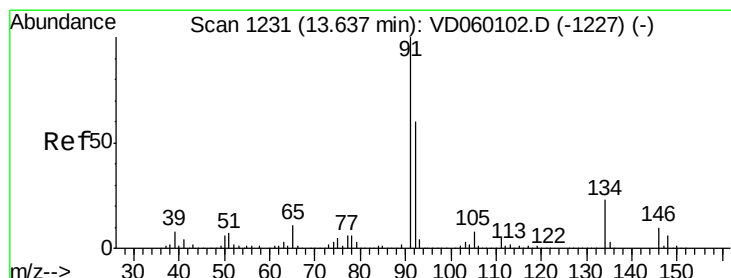
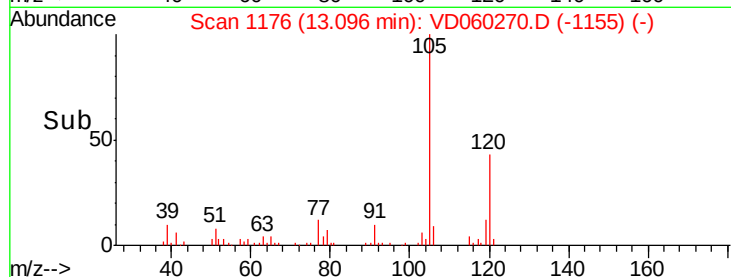
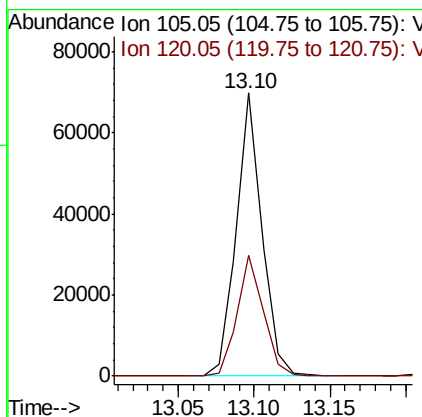
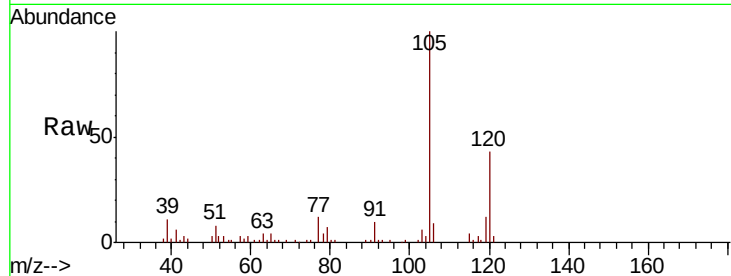




#84
 1,2,4-Trimethylbenzene
 Concen: 6.096 ug/l
 RT: 13.10 min Scan# 1176
 Delta R.T. 0.01 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

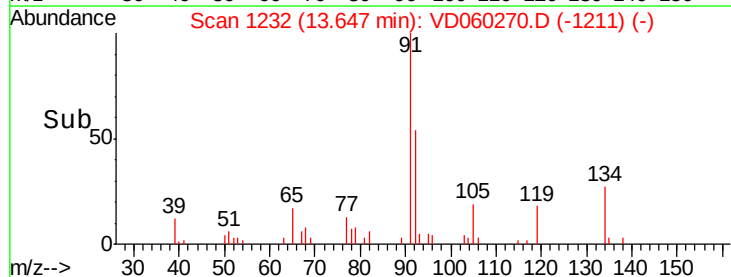
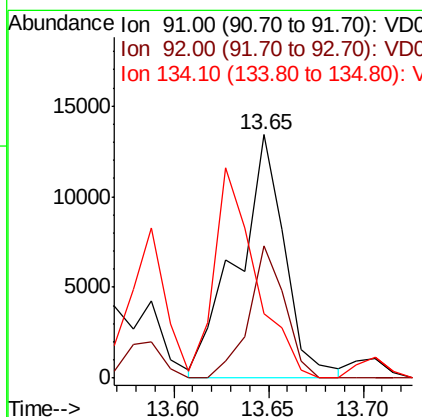
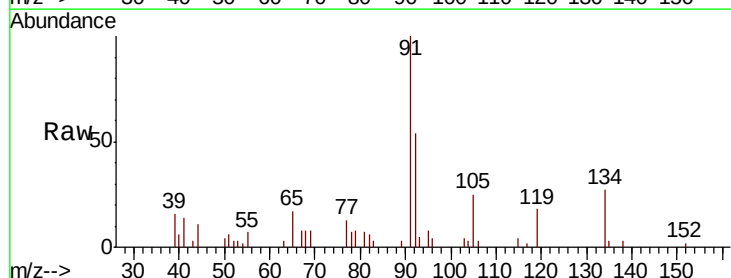
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

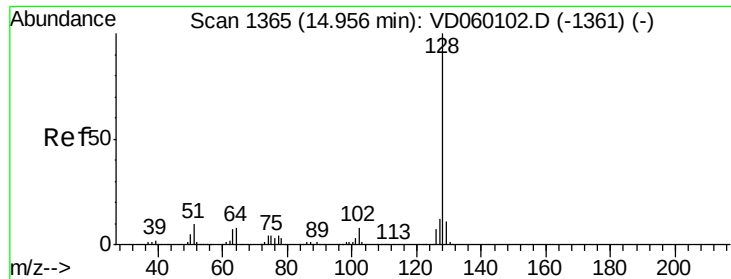
Tgt Ion: 105 Resp: 81811
 Ion Ratio Lower Upper
 105 100
 120 42.8 23.4 70.0



#89
 n-Butylbenzene
 Concen: 1.688 ug/l
 RT: 13.65 min Scan# 1232
 Delta R.T. 0.01 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

Tgt Ion: 91 Resp: 23344
 Ion Ratio Lower Upper
 91 100
 92 54.2 30.1 90.3
 134 26.6 11.6 34.7

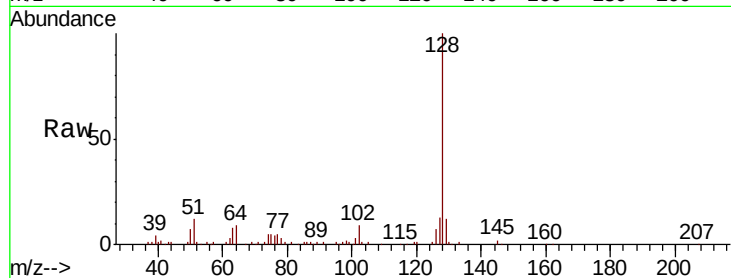




#95
 Naphthalene
 Concen: 23.397 ug/l
 RT: 14.97 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VD060270.D
 Acq: 1 Nov 2018 18:57

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-103118-B

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	11.6	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

