

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD110918\
 Data File : VD060324.D
 Acq On : 9 Nov 2018 20:52
 Operator : VA/AP
 Sample : J5887-07
 Misc : 6.65g/5ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 W-1-D

Quant Time: Nov 12 01:37:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 06 13:56:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1164747	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.45	114	1638437	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1269387	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.38	152	651832	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	460391	55.20	ug/l	-0.01
Spiked Amount			Recovery	=	110.40%	
35) Dibromofluoromethane	6.33	113	636263	52.08	ug/l	-0.01
Spiked Amount			Recovery	=	104.16%	
50) Toluene-d8	9.46	98	1749016	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.43	95	621965	48.00	ug/l	-0.01
Spiked Amount			Recovery	=	96.00%	

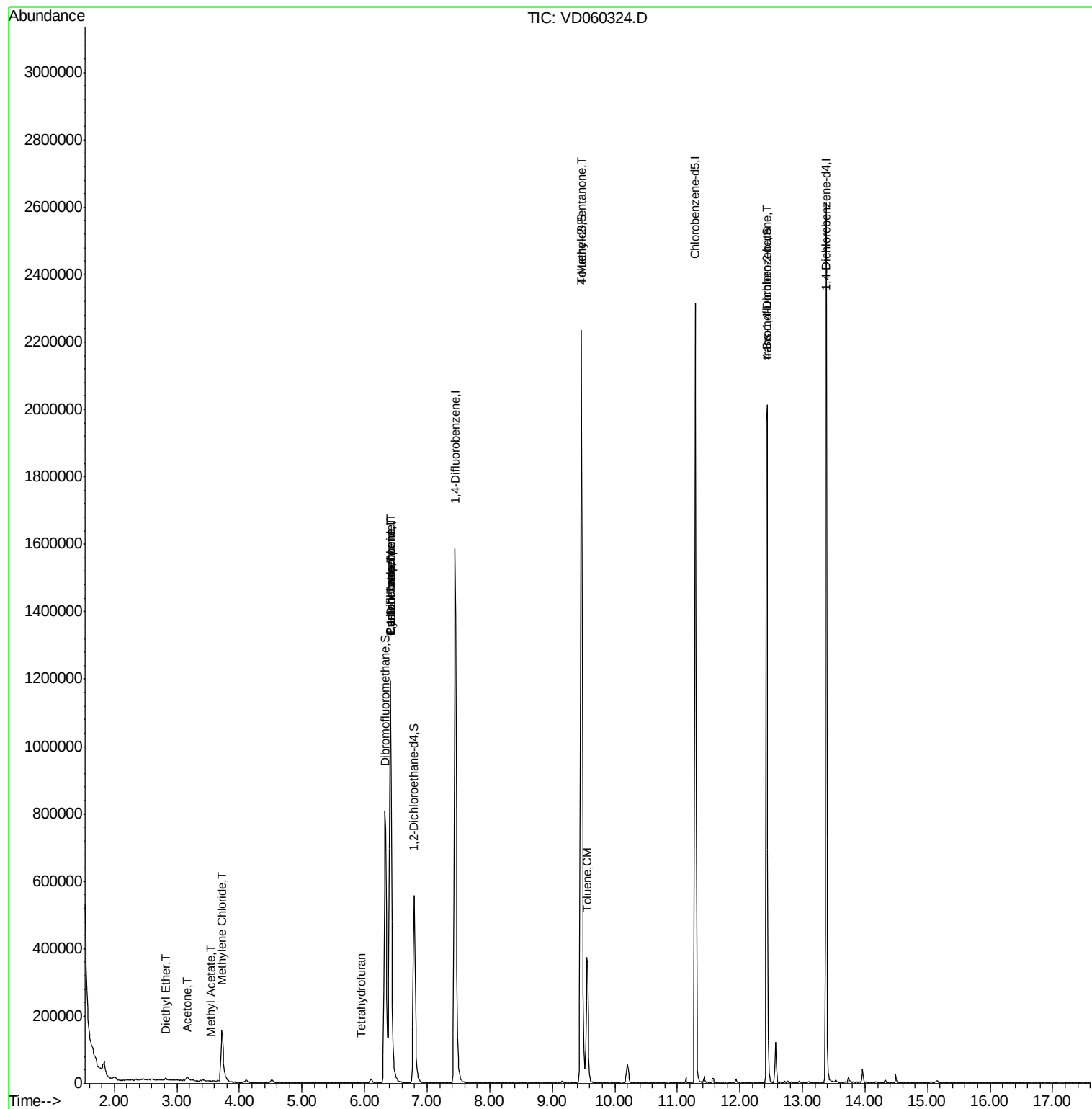
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	1213	Below Cal		76
8) Diethyl Ether	2.82	74	2818	1.465	ug/l	95
16) Acetone	3.17	43	24227	16.747	ug/l #	82
18) Methyl Acetate	3.54	43	4701	1.524	ug/l #	63
20) Methylene Chloride	3.72	84	98359	7.665	ug/l	95
29) Tetrahydrofuran	5.95	42	1806	1.139	ug/l #	41
31) Cyclohexane	6.41	56	22411	1.125	ug/l #	1
36) 1,1-Dichloropropene	6.41	75	83958	5.187	ug/l #	45
38) Carbon Tetrachloride	6.41	117	89612	5.968	ug/l #	16
51) 4-Methyl-2-Pentanone	9.46	43	10182	1.672	ug/l #	1
52) Toluene	9.55	92	194127	7.355	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.43	75	260454	117.326	ug/l #	15
89) n-Butylbenzene	13.66	91	679	Below Cal	#	70

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

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Quant Title : SW846 8260
QLast Update : Tue Nov 06 13:56:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampleId :

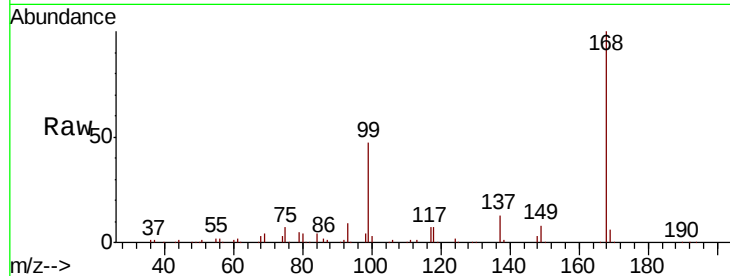
W-1-D

Tgt Ion:168 Resp: 1164747

Ion Ratio Lower Upper

168 100

99 46.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

400000

300000

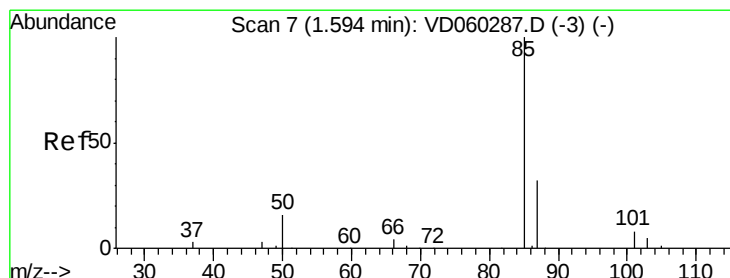
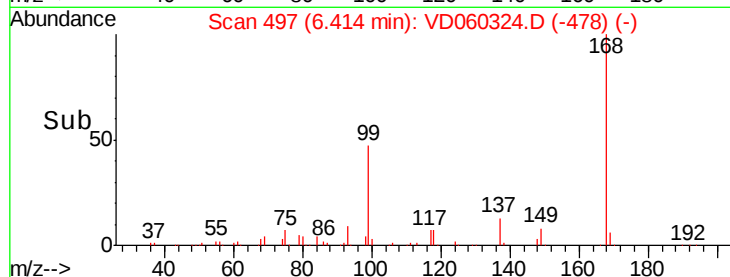
200000

100000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 6

Delta R.T. -0.01 min

Lab File: VD060324.D

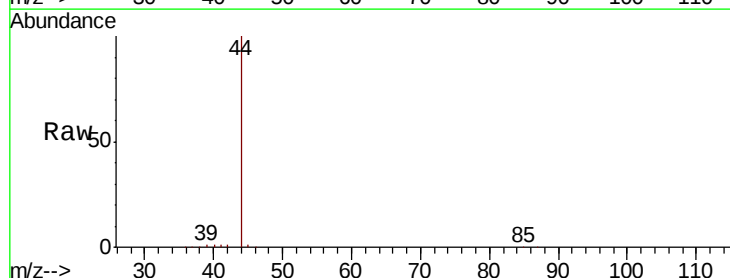
Acq: 9 Nov 2018 20:52

Tgt Ion: 85 Resp: 1213

Ion Ratio Lower Upper

85 100

87 47.0 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

600

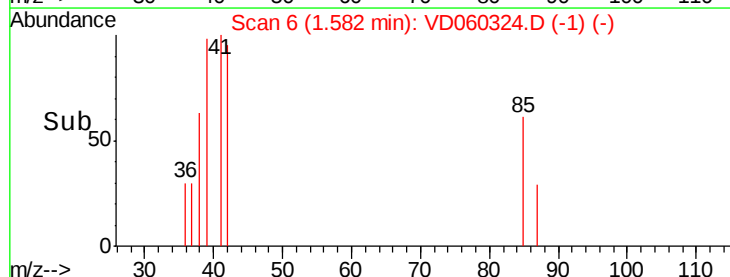
400

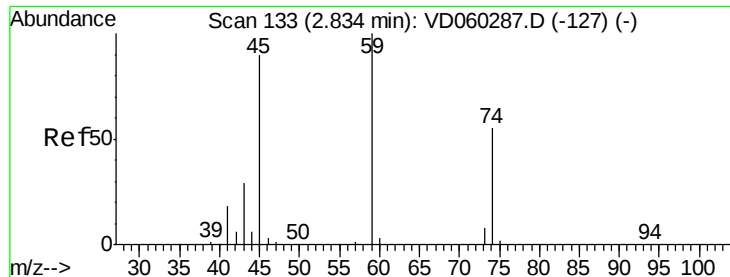
200

0

1.55 1.60 1.65

Time-->





#8

Diethyl Ether

Concen: 1.465 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.01 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampleId :

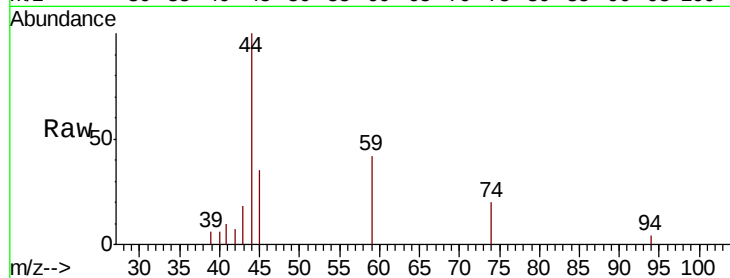
W-1-D

Tgt Ion: 74 Resp: 2818

Ion Ratio Lower Upper

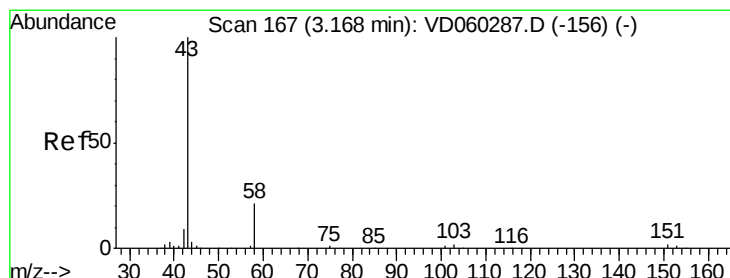
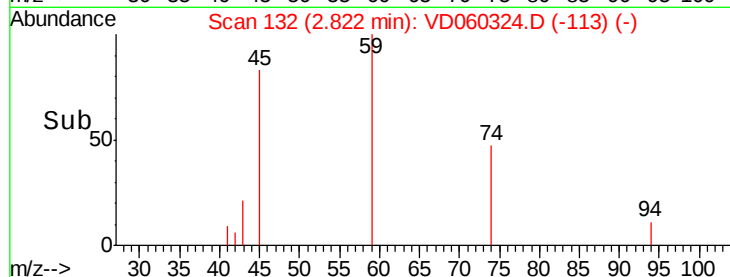
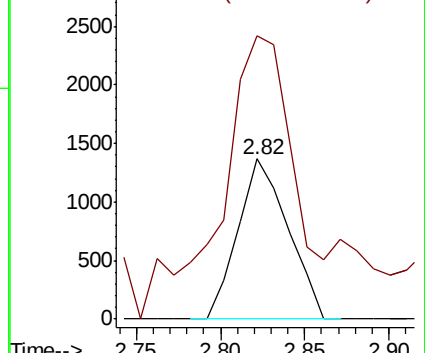
74 100

45 176.9 84.8 254.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 16.747 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.00 min

Lab File: VD060324.D

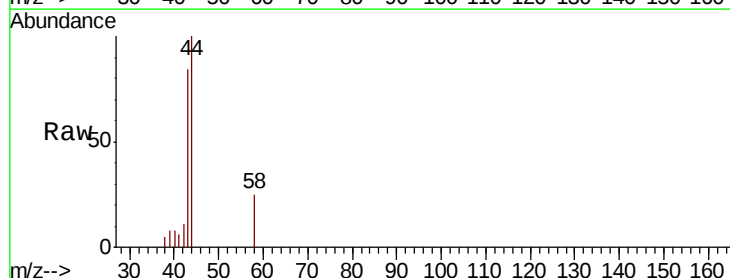
Acq: 9 Nov 2018 20:52

Tgt Ion: 43 Resp: 24227

Ion Ratio Lower Upper

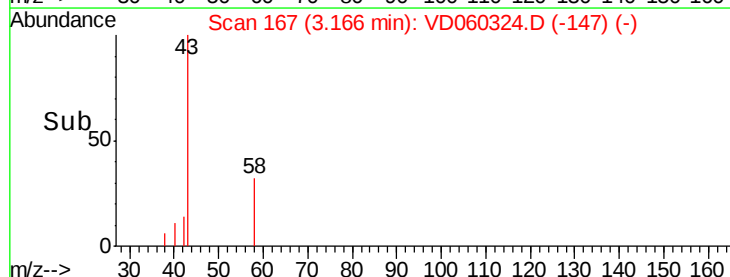
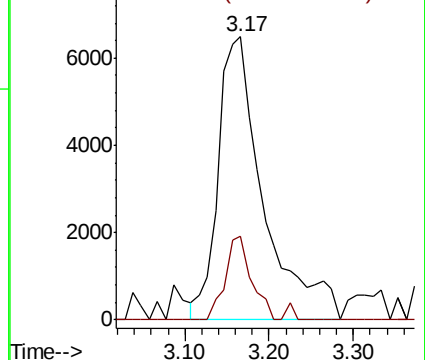
43 100

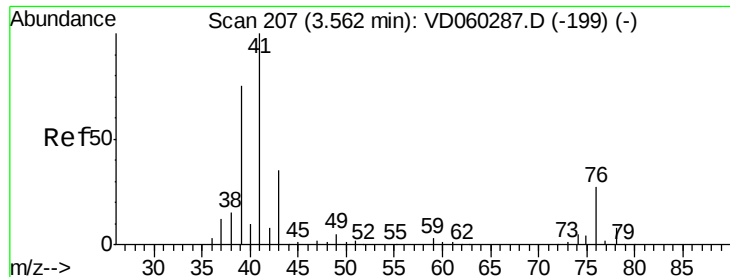
58 29.5 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

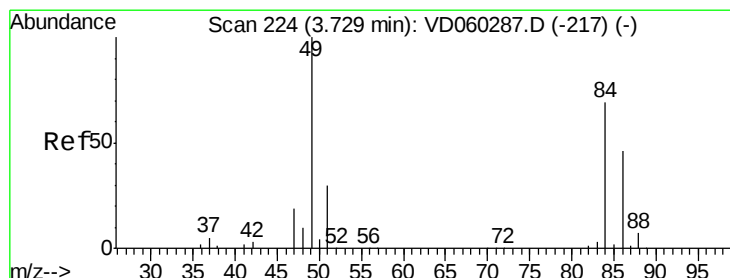
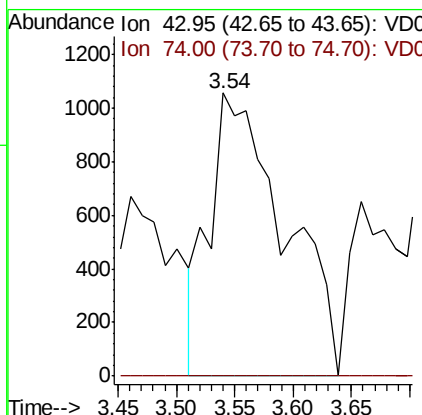
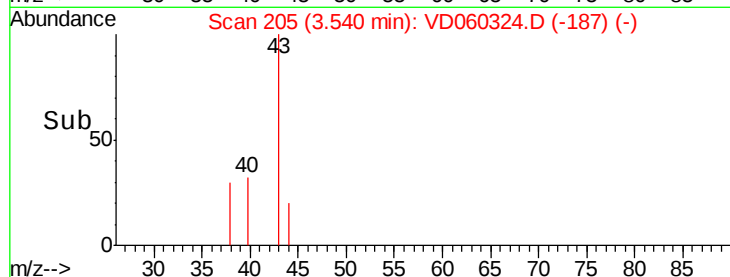
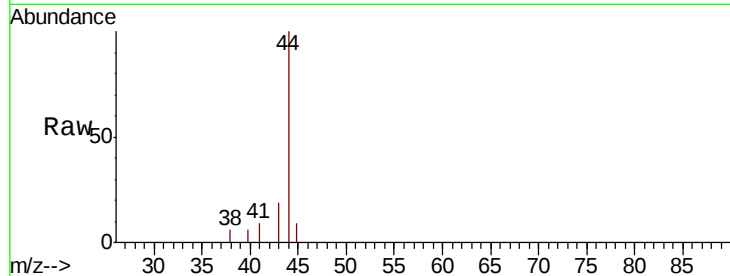




#18
Methyl Acetate
Concen: 1.524 ug/l
RT: 3.54 min Scan# 205
Delta R.T. -0.02 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

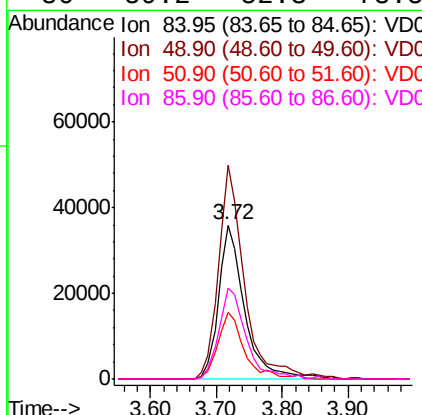
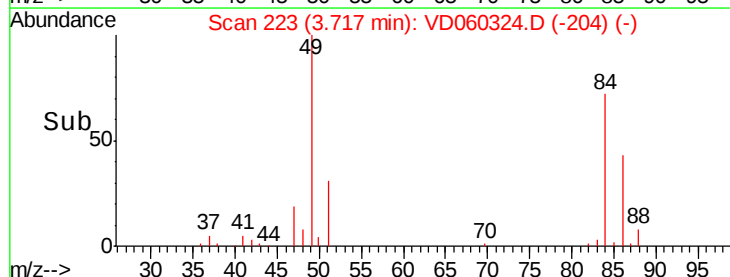
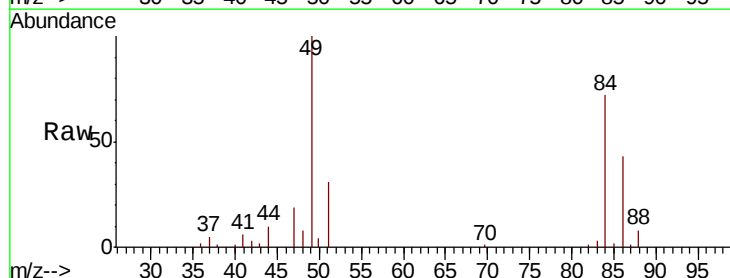
Instrument :
MSVOA_D
ClientSampleID :
W-1-D

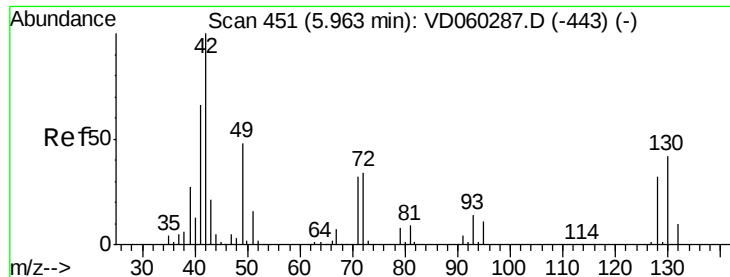
Tgt Ion: 43 Resp: 4701
Ion Ratio Lower Upper
43 100
74 0.0 12.4 18.6#



#20
Methylene Chloride
Concen: 7.665 ug/l
RT: 3.72 min Scan# 223
Delta R.T. -0.01 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

Tgt Ion: 84 Resp: 98359
Ion Ratio Lower Upper
84 100
49 138.9 115.6 173.4
51 43.4 35.6 53.4
86 59.2 52.3 78.5





#29

Tetrahydrofuran

Concen: 1.139 ug/l

RT: 5.95 min Scan# 450

Delta R.T. -0.01 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampleId :

W-1-D

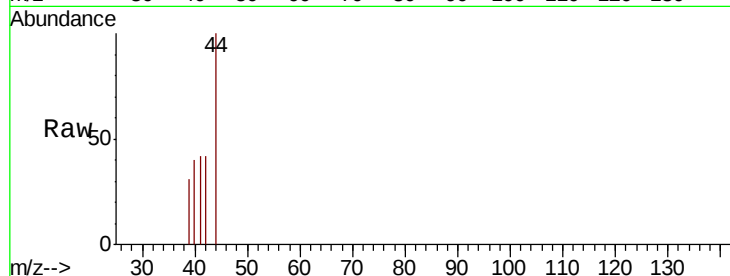
Tgt Ion: 42 Resp: 1806

Ion Ratio Lower Upper

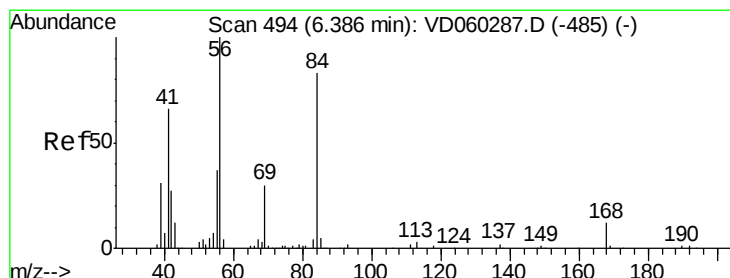
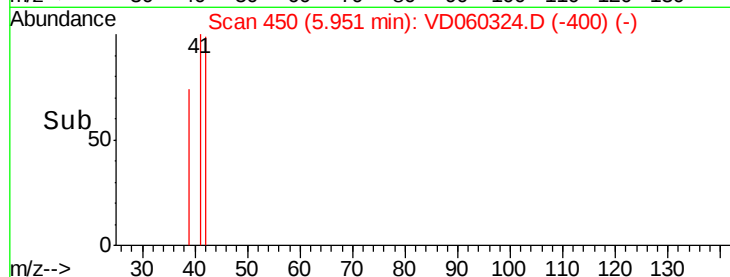
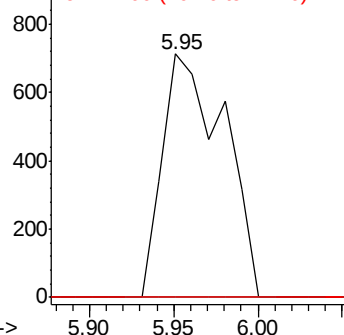
42 100

72 0.0 27.6 41.4#

71 0.0 26.5 39.7#



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: 1.125 ug/l

RT: 6.41 min Scan# 497

Delta R.T. 0.03 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

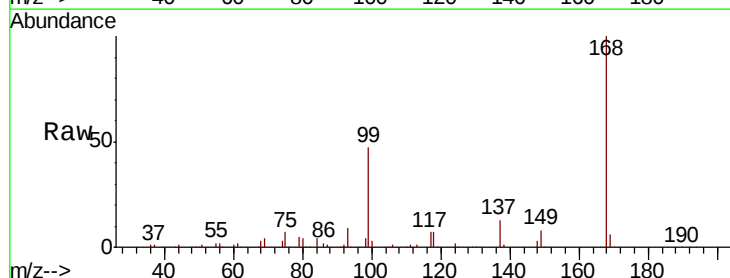
Tgt Ion: 56 Resp: 22411

Ion Ratio Lower Upper

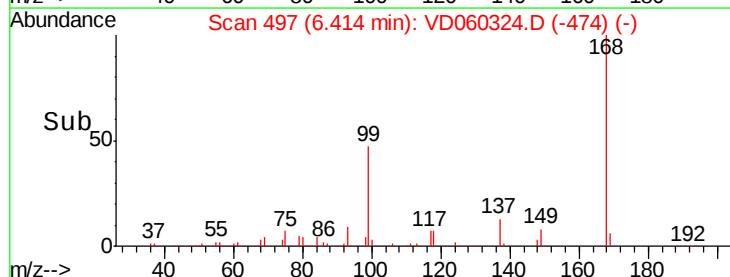
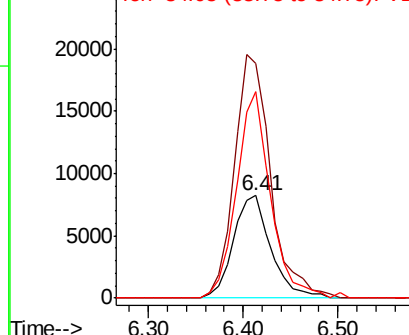
56 100

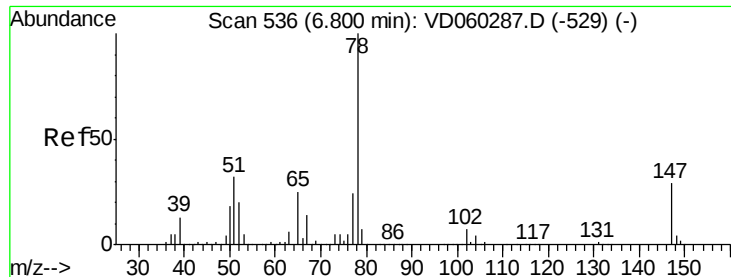
69 228.8 22.2 33.2#

84 201.0 63.0 94.4#



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: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampleId :

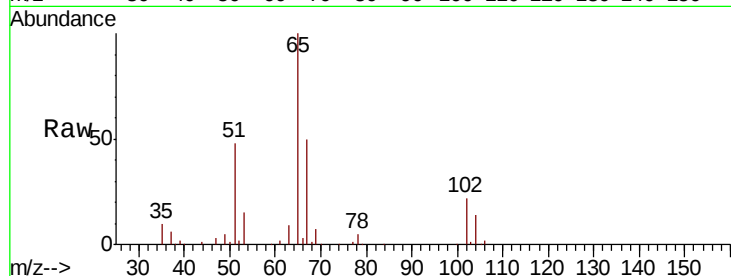
W-1-D

Tgt Ion: 65 Resp: 460391

Ion Ratio Lower Upper

65 100

67 50.1 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.79

200000

150000

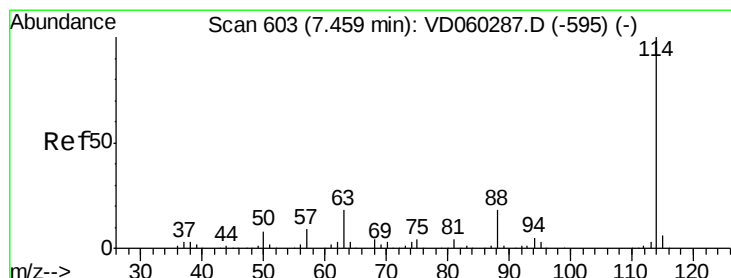
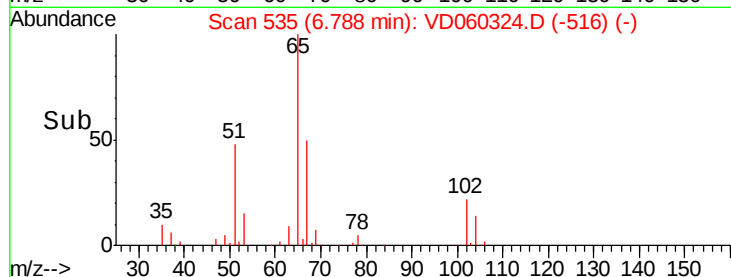
100000

50000

0

6.70 6.80 6.90 7.00

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

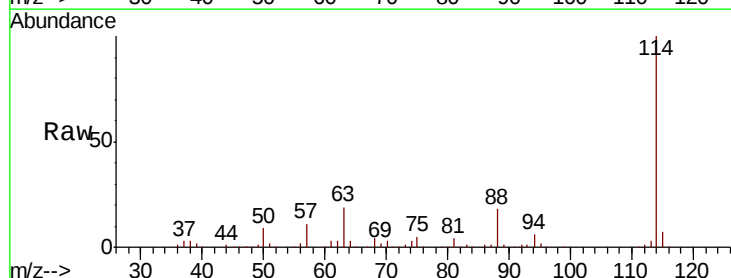
Tgt Ion: 114 Resp: 1638437

Ion Ratio Lower Upper

114 100

63 18.9 0.0 34.0

88 18.1 0.0 35.4



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

7.45

800000

600000

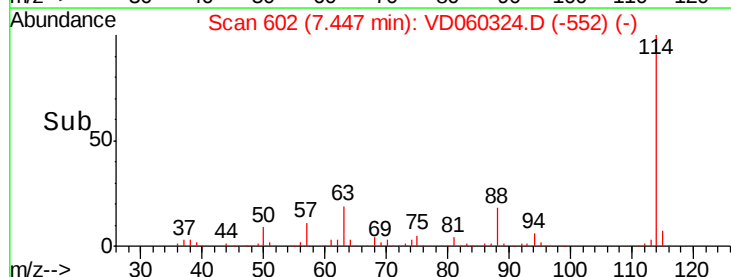
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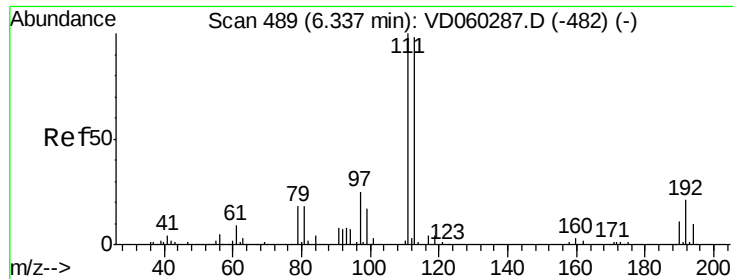
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0

7.40 7.60

Time-->

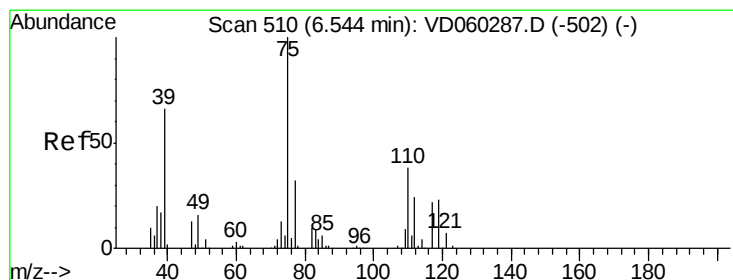
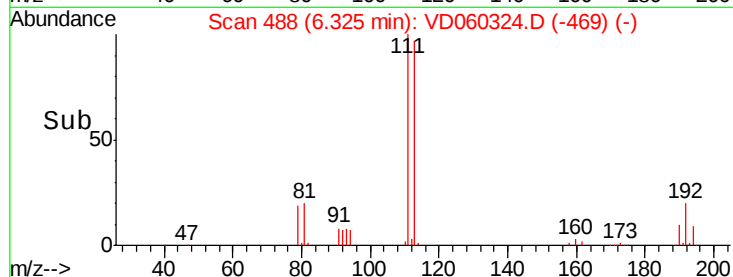
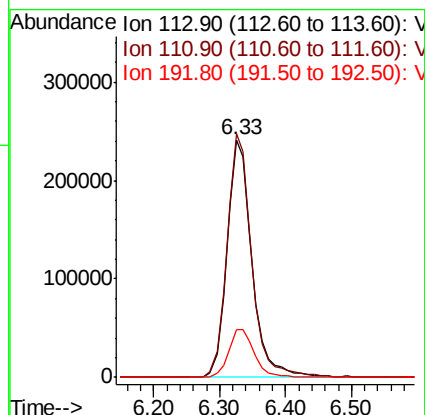
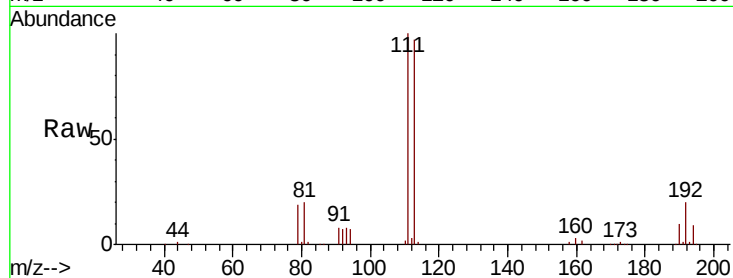




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: VD060324.D
 Acq: 9 Nov 2018 20:52

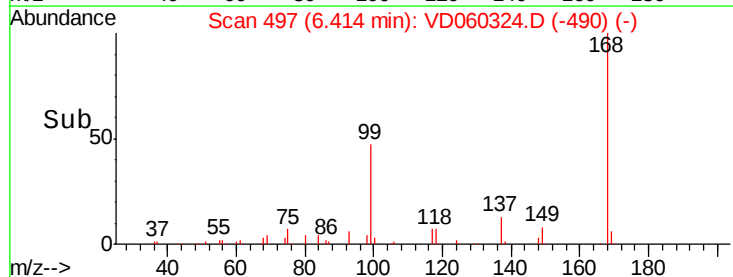
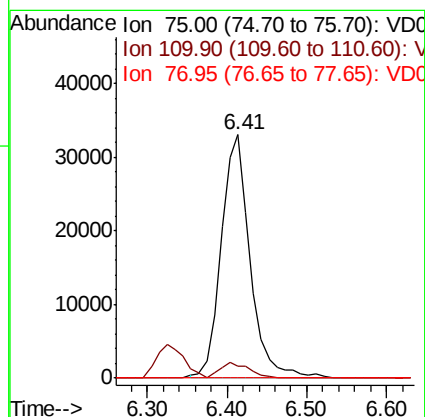
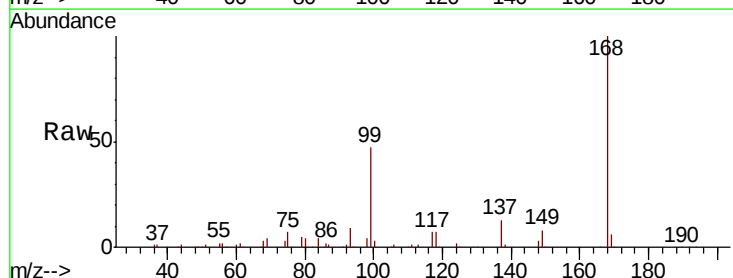
Instrument :
 MSVOA_D
 ClientSampleId :
 W-1-D

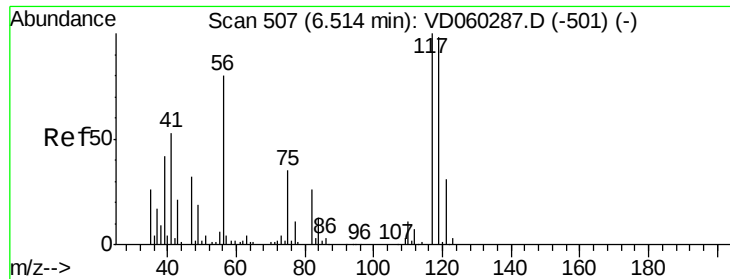
Tgt Ion: 113 Resp: 636263
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.6 122.4
 192 20.2 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.187 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.13 min
 Lab File: VD060324.D
 Acq: 9 Nov 2018 20:52

Tgt Ion: 75 Resp: 83958
 Ion Ratio Lower Upper
 75 100
 110 4.9 18.0 54.0#
 77 0.0 25.6 38.4#

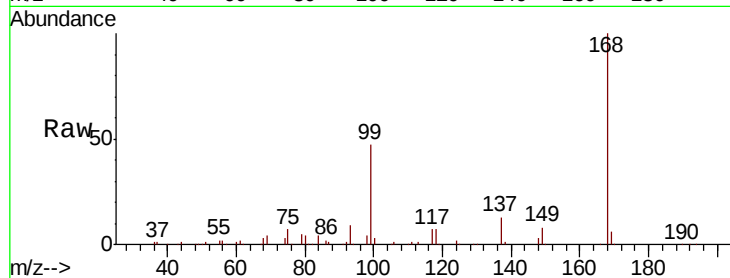




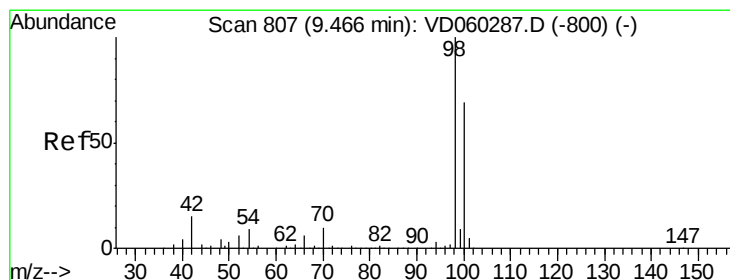
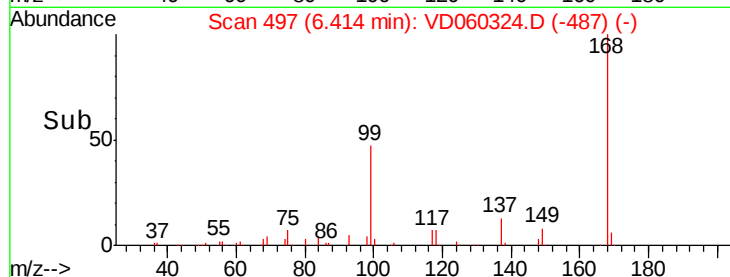
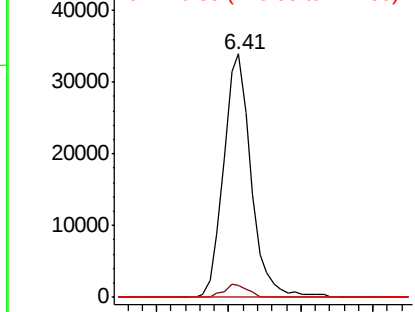
#38
Carbon Tetrachloride
Concen: 5.968 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.10 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

Instrument :
MSVOA_D
ClientSampleId :
W-1-D

Tgt Ion:117 Resp: 89612
Ion Ratio Lower Upper
117 100
119 5.0 76.6 115.0#
121 0.0 24.3 36.5#

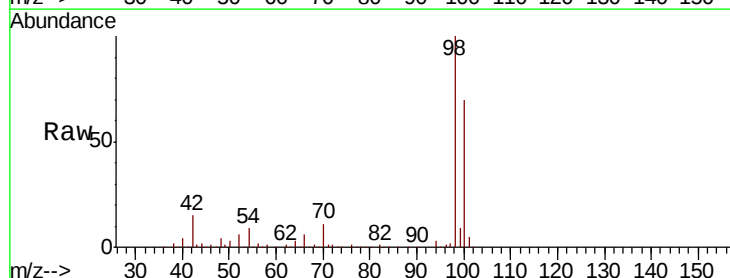


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

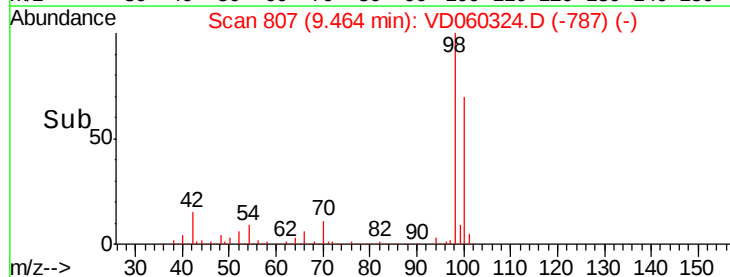
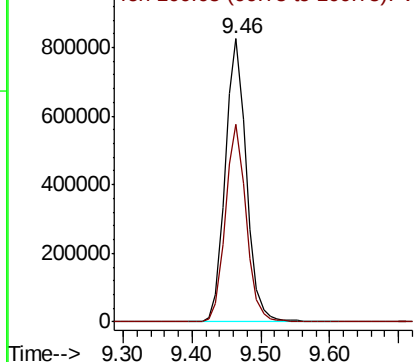


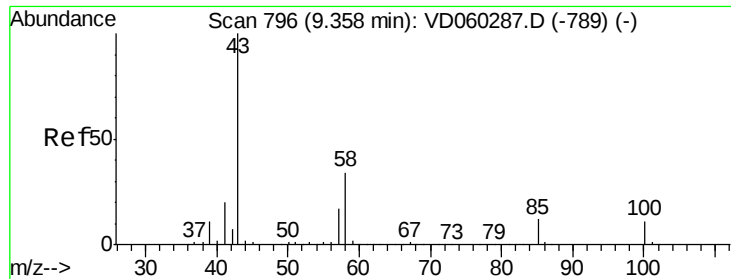
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 807
Delta R.T. -0.00 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

Tgt Ion: 98 Resp: 1749016
Ion Ratio Lower Upper
98 100
100 69.8 55.2 82.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.672 ug/l

RT: 9.46 min Scan# 807

Delta R.T. 0.11 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampled :

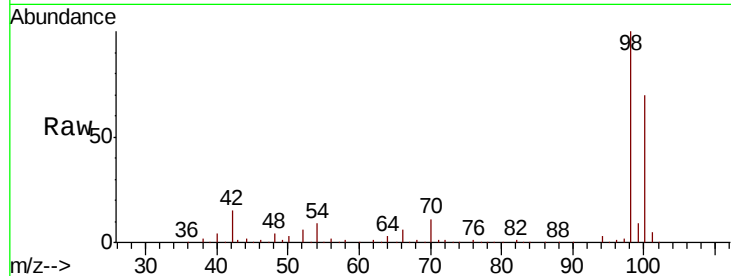
W-1-D

Tgt Ion: 43 Resp: 10182

Ion Ratio Lower Upper

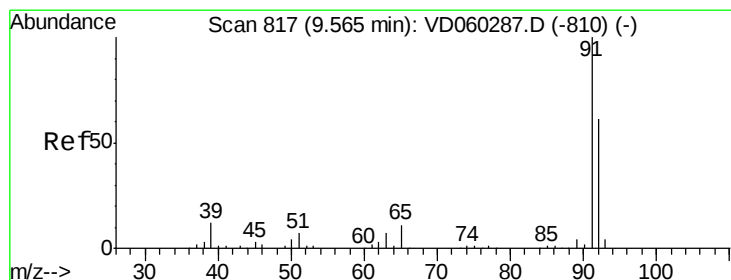
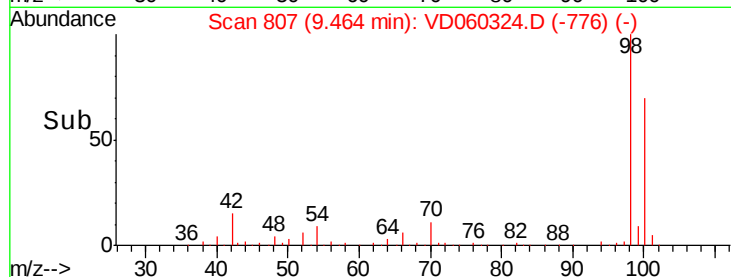
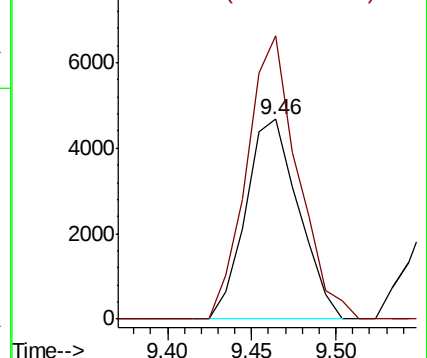
43 100

58 141.8 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 7.355 ug/l

RT: 9.55 min Scan# 816

Delta R.T. -0.01 min

Lab File: VD060324.D

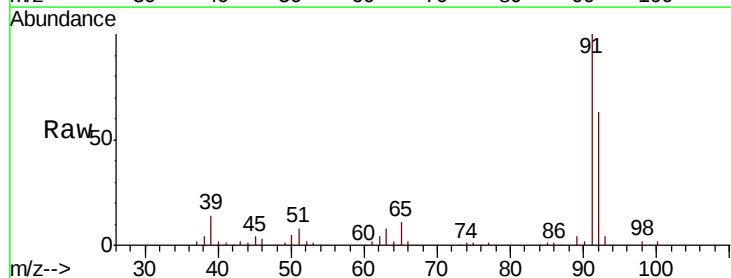
Acq: 9 Nov 2018 20:52

Tgt Ion: 92 Resp: 194127

Ion Ratio Lower Upper

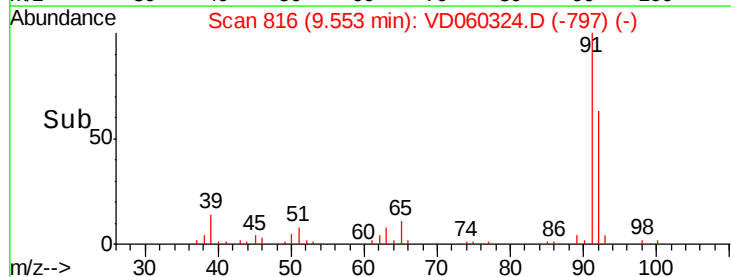
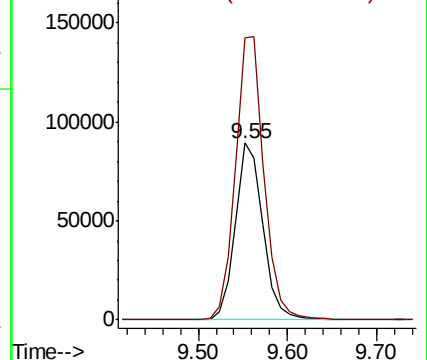
92 100

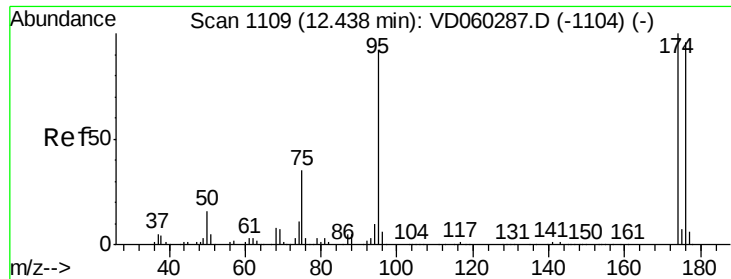
91 159.3 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

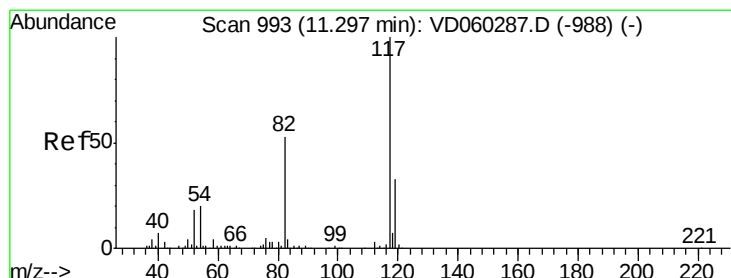
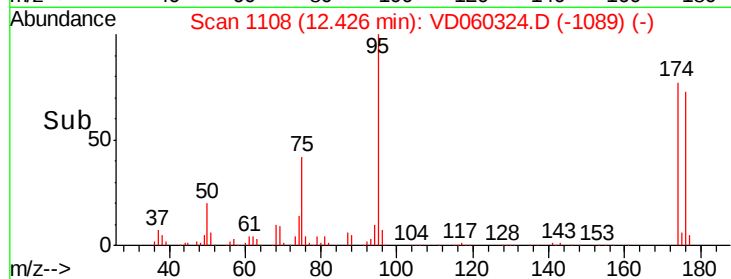
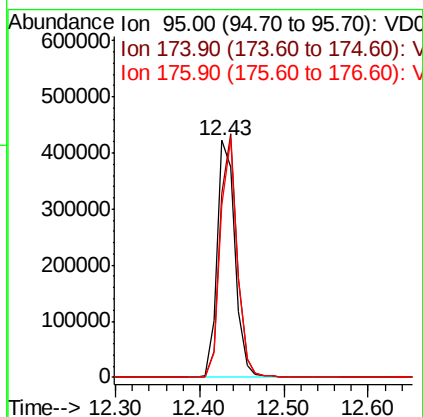
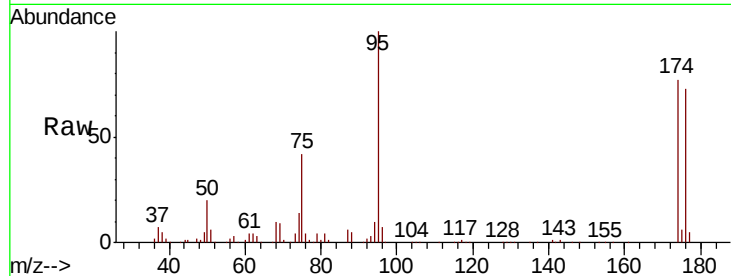




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

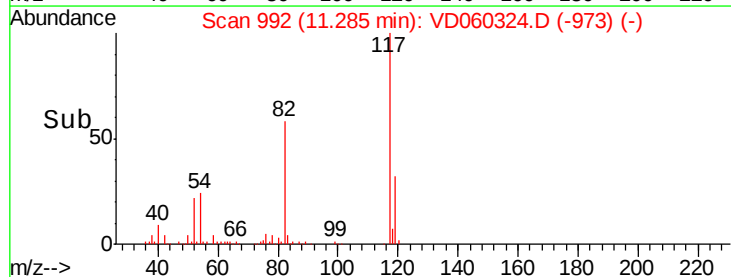
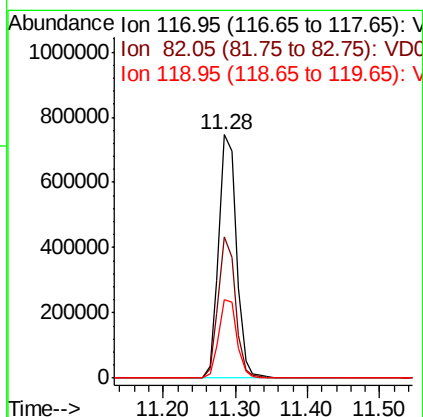
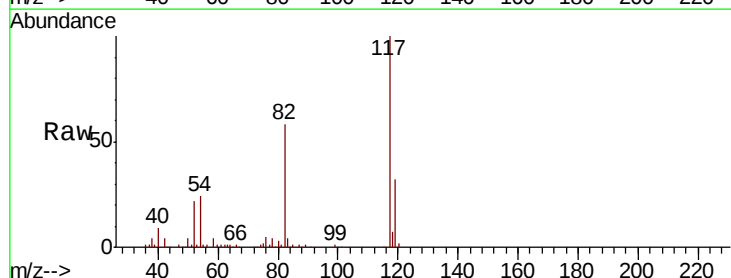
Instrument :
MSVOA_D
ClientSampleID :
W-1-D

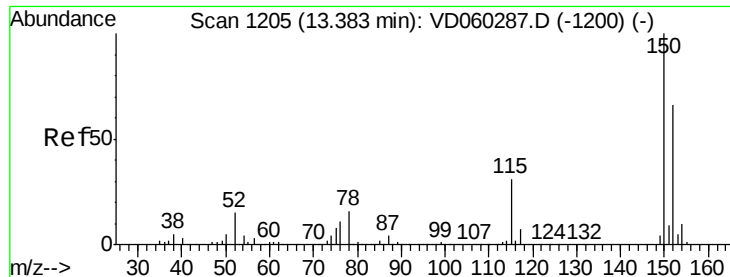
Tgt Ion: 95 Resp: 621965
Ion Ratio Lower Upper
95 100
174 77.4 0.0 160.8
176 72.6 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. -0.01 min
Lab File: VD060324.D
Acq: 9 Nov 2018 20:52

Tgt Ion: 117 Resp: 1269387
Ion Ratio Lower Upper
117 100
82 58.2 43.7 65.5
119 32.2 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.38 min Scan# 1205

Delta R.T. -0.00 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

Instrument :

MSVOA_D

ClientSampleId :

W-1-D

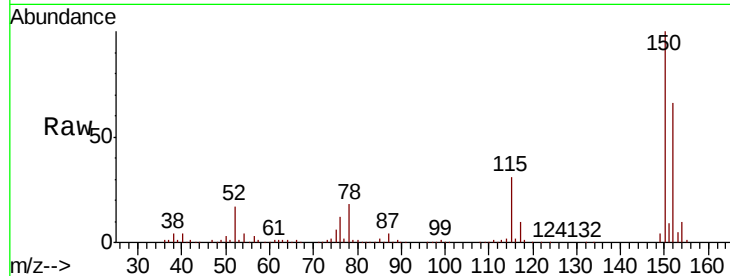
Tgt Ion: 152 Resp: 651832

Ion Ratio Lower Upper

152 100

115 46.6 24.1 72.3

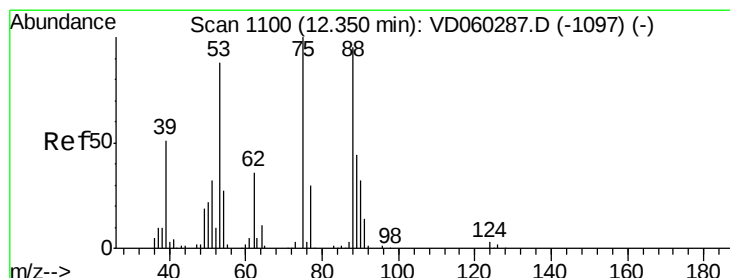
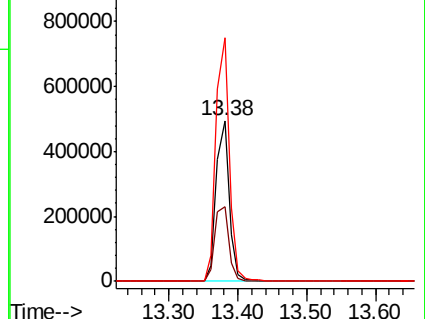
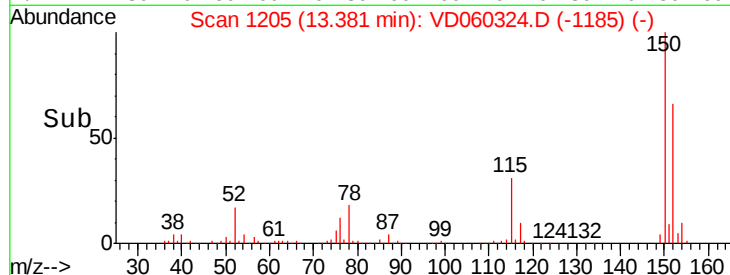
150 151.6 0.0 310.6



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: 117.326 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060324.D

Acq: 9 Nov 2018 20:52

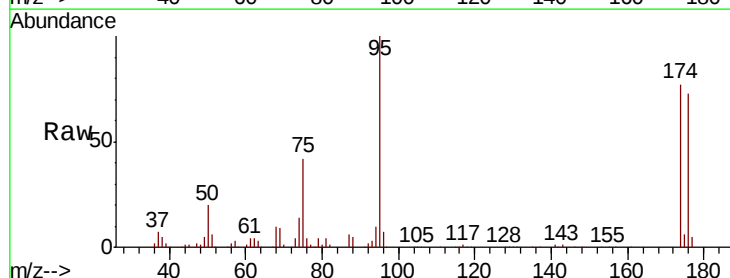
Tgt Ion: 75 Resp: 260454

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 34.1 51.1#



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

