

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031219\
 Data File : VD061022.D
 Acq On : 12 Mar 2019 14:19
 Operator : VA/AP
 Sample : K1846-03RE
 Misc : 7.20g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2

Quant Time: Mar 13 04:07:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	625882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1122933	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	771409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	281637	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	229939	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	
35) Dibromofluoromethane	6.92	113	387021	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	10.41	98	948683	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
62) 4-Bromofluorobenzene	13.55	95	302783	37.29	ug/l	0.00
Spiked Amount			Recovery	=	74.58%	

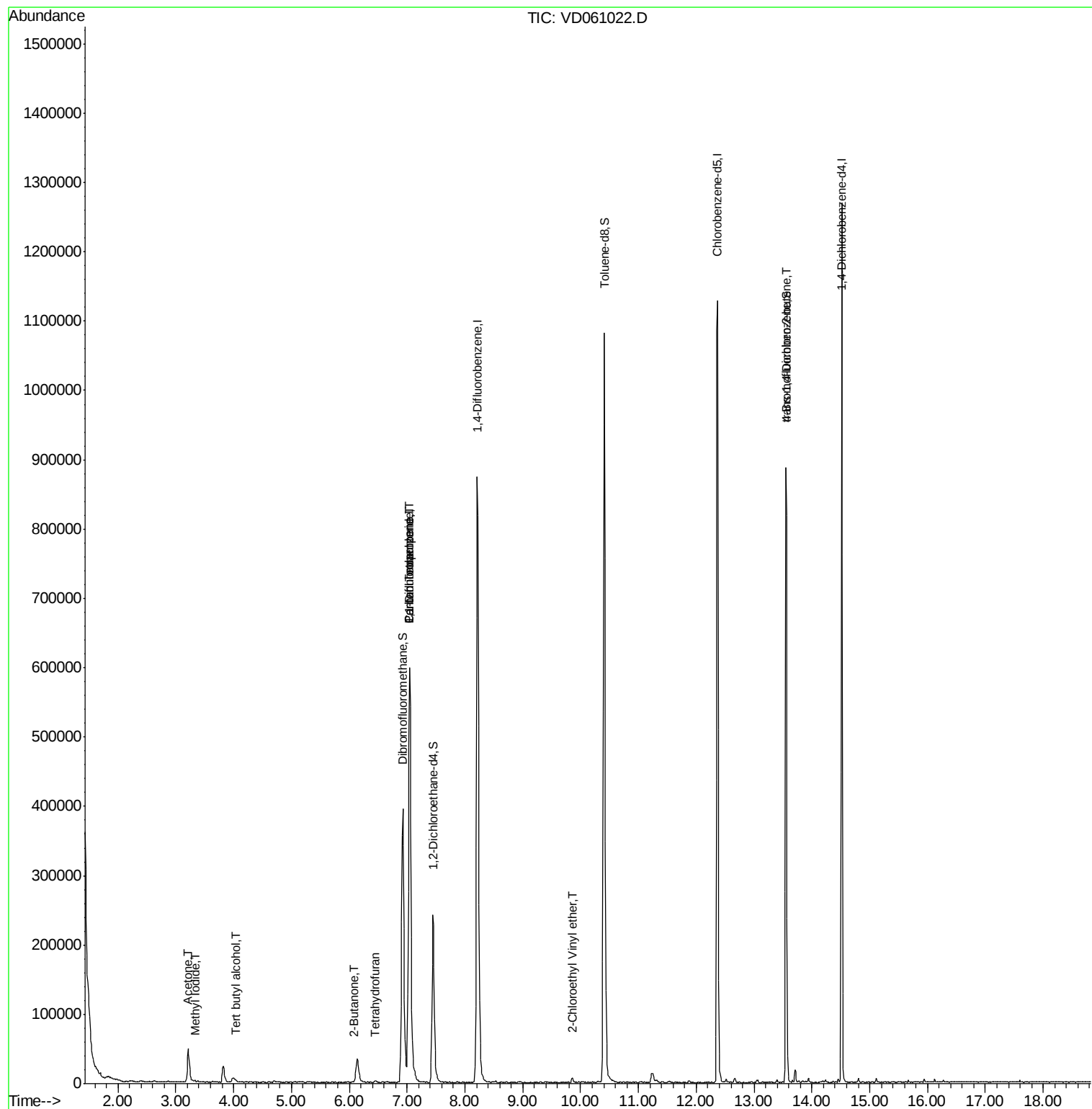
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.20	94	597	Below Cal	#	8
10) Methyl Iodide	3.32	142	2507	3.157	ug/l #	80
11) Tert butyl alcohol	4.04	59	7665	23.111	ug/l #	75
16) Acetone	3.21	43	93415	62.704	ug/l	93
20) Methylene Chloride	3.82	84	17803	Below Cal		94
25) 2-Butanone	6.07	43	2639	1.561	ug/l #	55
29) Tetrahydrofuran	6.46	42	1721	1.875	ug/l #	69
36) 1,1-Dichloropropene	7.04	75	45336	4.684	ug/l #	46
38) Carbon Tetrachloride	7.04	117	59411	5.572	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.86	63	3945	1.422	ug/l #	80
81) trans-1,4-Dichloro-2-buten	13.55	75	110657	92.633	ug/l #	17

(#) = 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: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

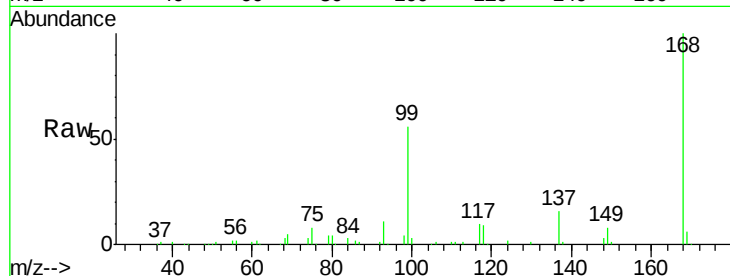
TP-2

Tot Ion:168 Resp: 625882

Ion Ratio Lower Upper

168 100

99 56.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

250000

200000

150000

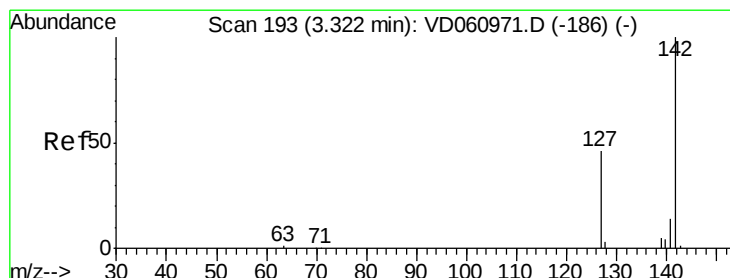
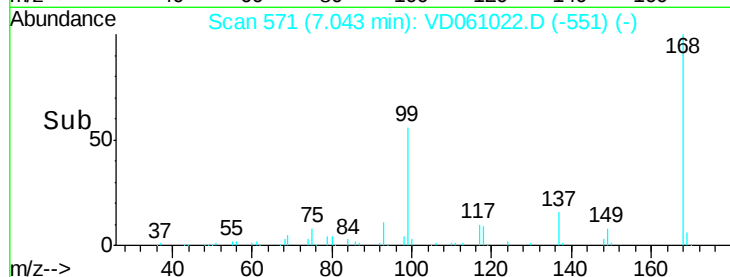
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 3.157 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

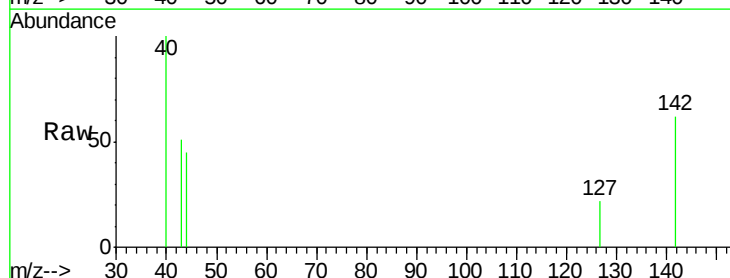
Tgt Ion:142 Resp: 2507

Ion Ratio Lower Upper

142 100

127 35.5 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.32

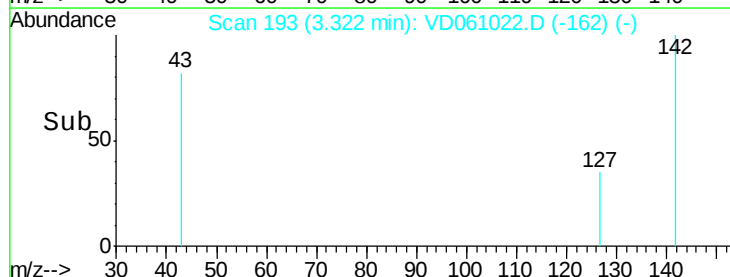
1000

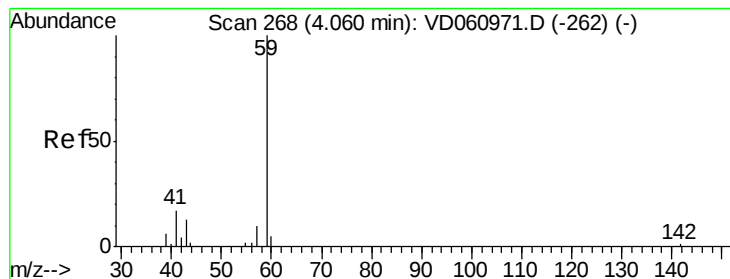
500

0

3.25 3.30 3.35 3.40

Time-->





#11

Tert butyl alcohol

Concen: 23.111 ug/l

RT: 4.04 min Scan# 266

Delta R.T. -0.02 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampled :

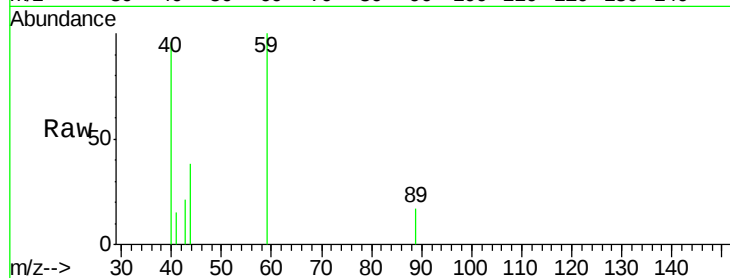
TP-2

Tot Ion: 59 Resp: 7665

Ion Ratio Lower Upper

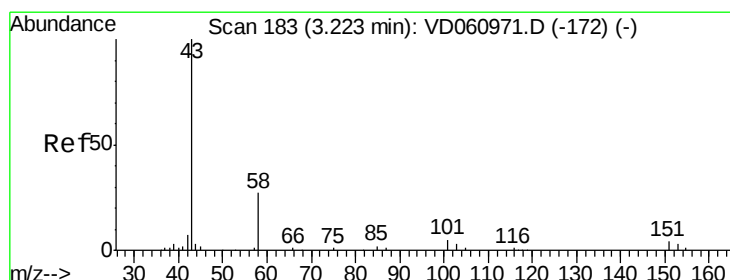
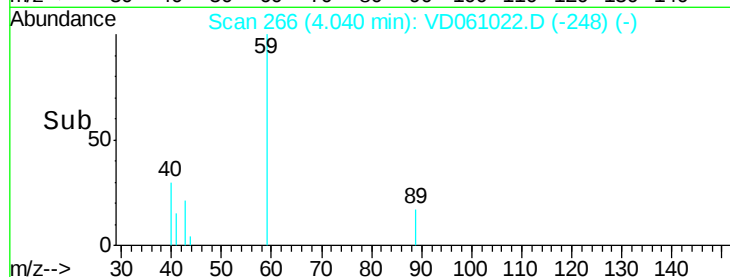
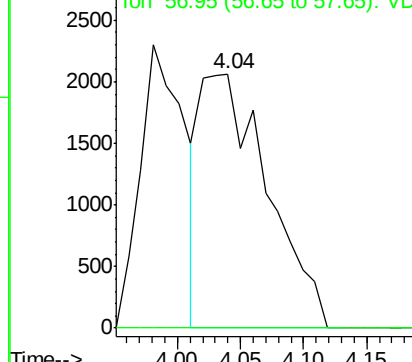
59 100

57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#16

Acetone

Concen: 62.704 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD061022.D

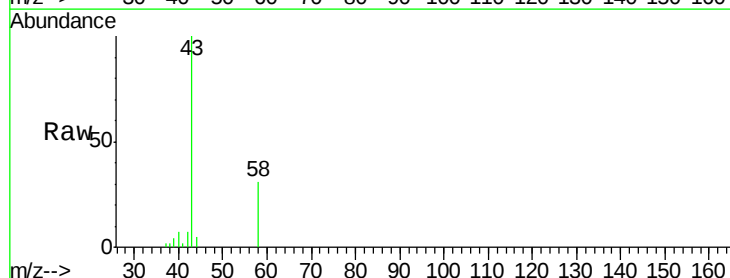
Acq: 12 Mar 2019 14:19

Tgt Ion: 43 Resp: 93415

Ion Ratio Lower Upper

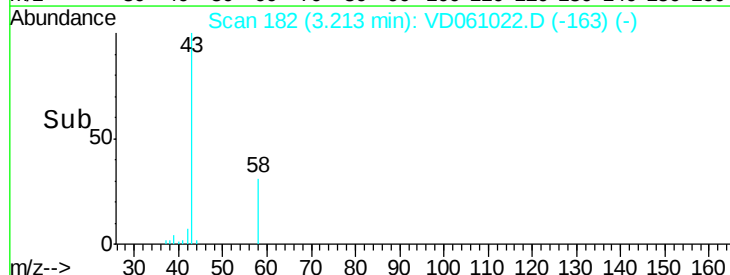
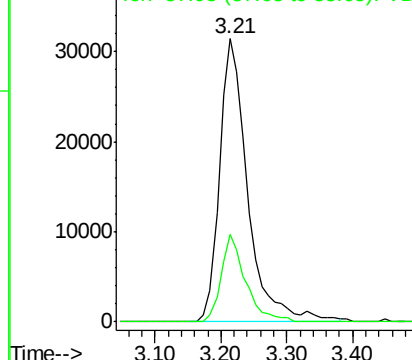
43 100

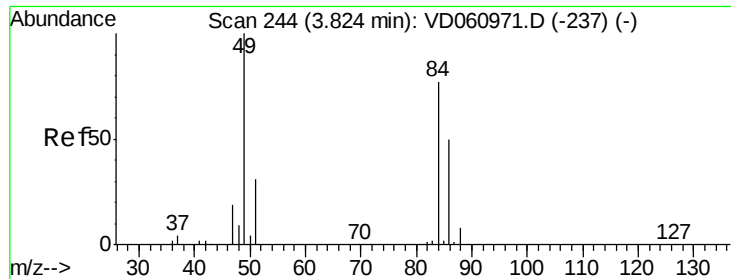
58 30.8 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

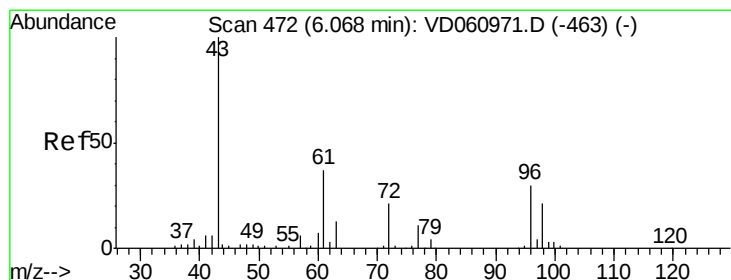
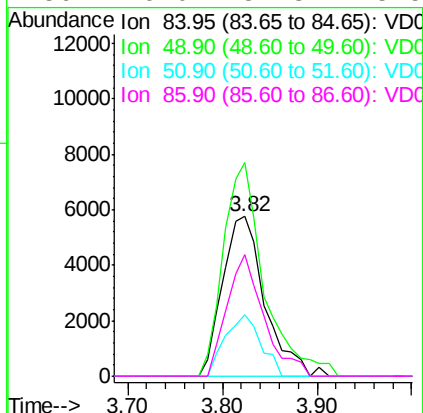
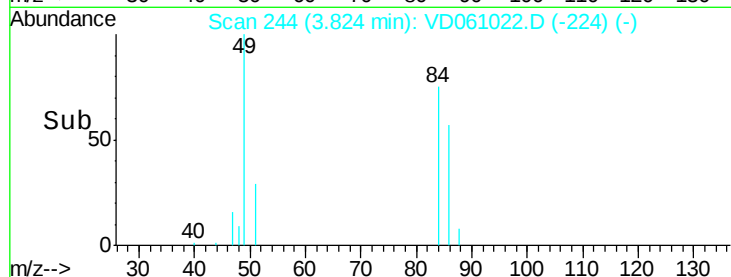
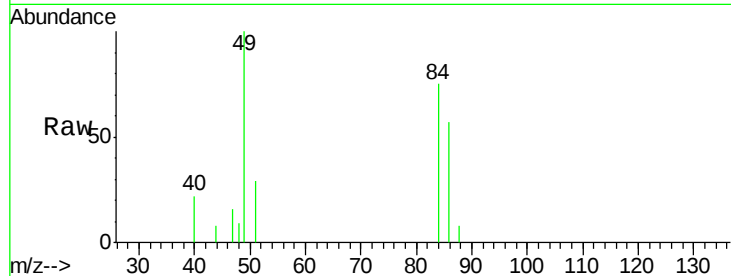




#20
Methvlene Chloride
Concen: Below Cal
RT: 3.82 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD061022.D
Acq: 12 Mar 2019 14:19

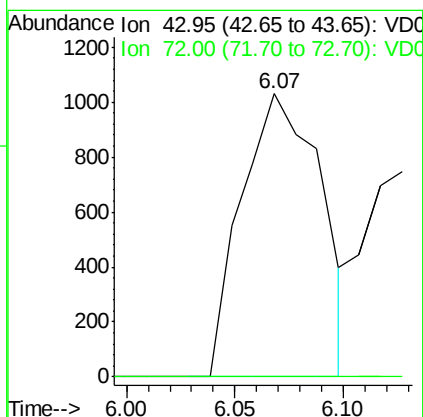
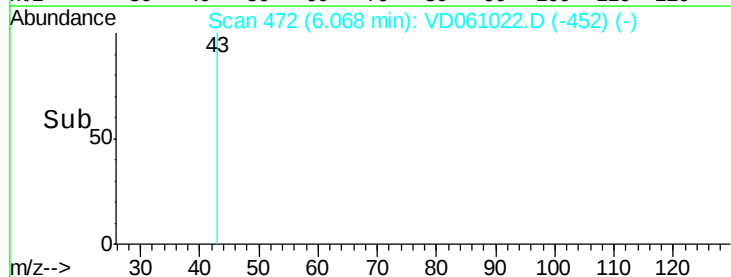
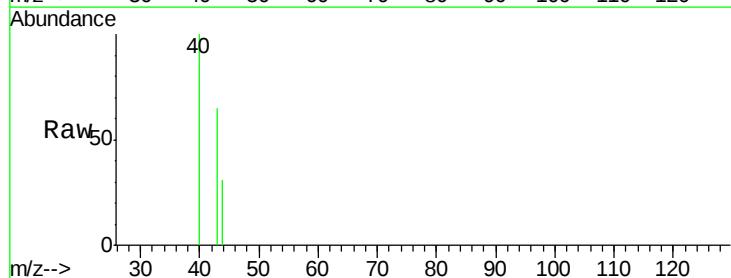
Instrument :
MSVOA_D
ClientSampleId :
TP-2

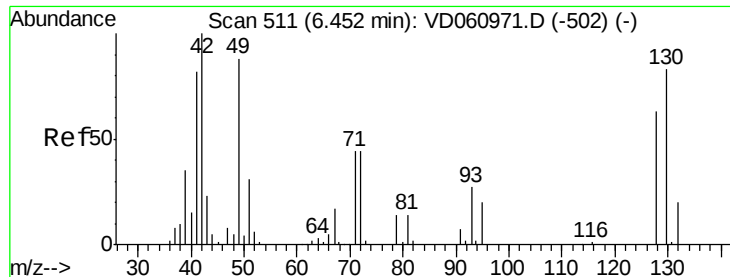
Tot Ion: 84 Resp: 17803
Ion Ratio Lower Upper
84 100
49 133.9 104.2 156.2
51 38.9 32.3 48.5
86 76.0 52.3 78.5



#25
2-Butanone
Concen: 1.561 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.00 min
Lab File: VD061022.D
Acq: 12 Mar 2019 14:19

Tgt Ion: 43 Resp: 2639
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#29

Tetrahydrofuran

Concen: 1.875 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-2

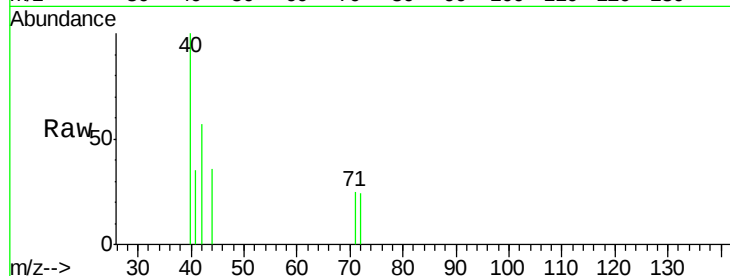
Tot Ion: 42 Resp: 1721

Ion Ratio Lower Upper

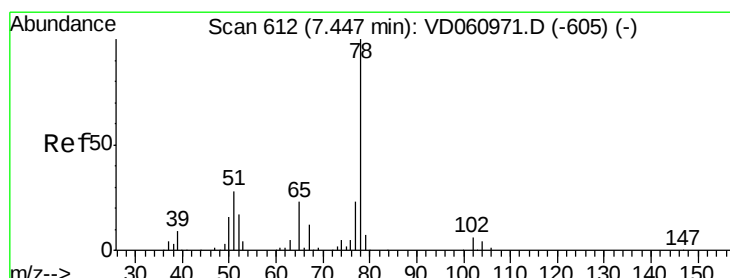
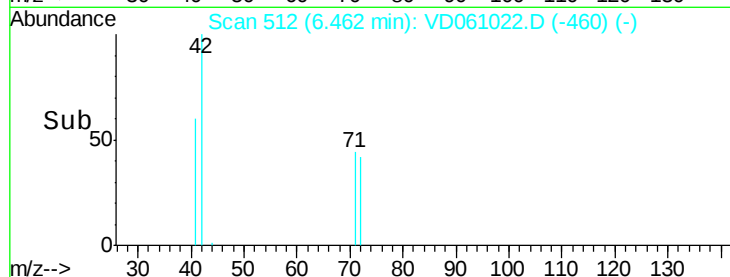
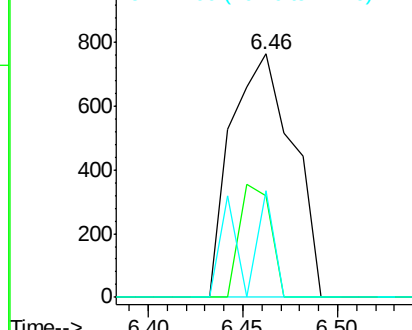
42 100

72 23.2 34.5 51.7#

71 22.5 33.8 50.6#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD061022.D

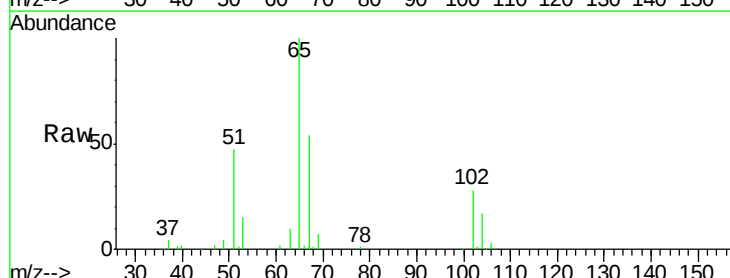
Acq: 12 Mar 2019 14:19

Tgt Ion: 65 Resp: 229939

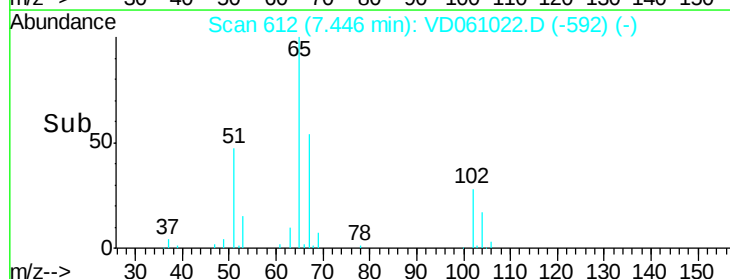
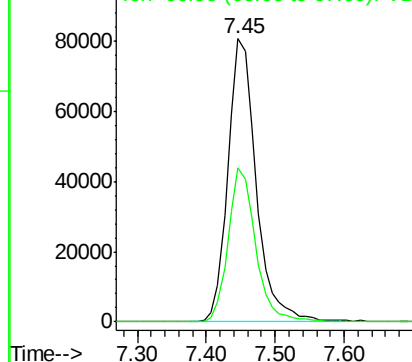
Ion Ratio Lower Upper

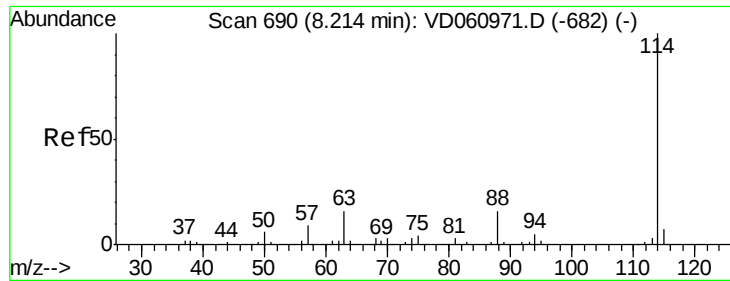
65 100

67 54.5 0.0 105.2



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: 8.21 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampled :

TP-2

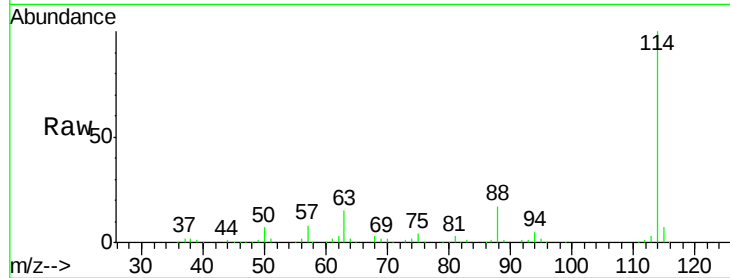
Tot Ion:114 Resp: 1122933

Ion Ratio Lower Upper

114 100

63 15.4 0.0 31.4

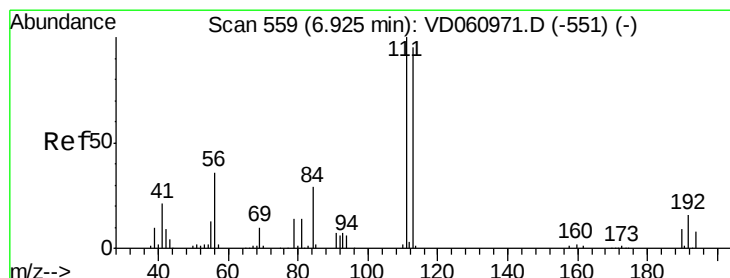
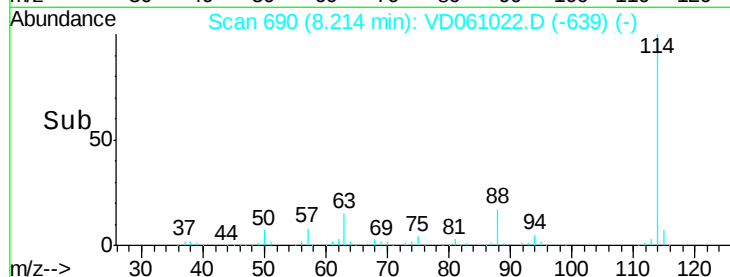
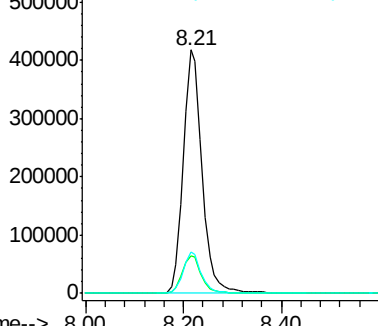
88 17.0 0.0 33.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

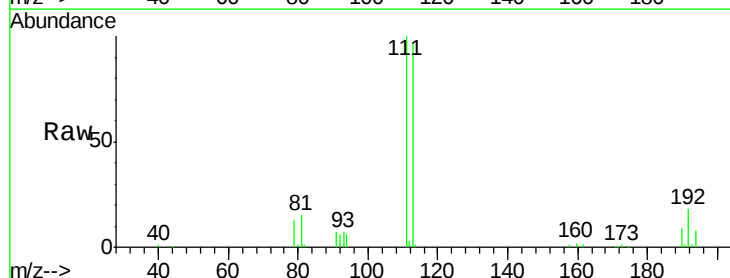
Tgt Ion:113 Resp: 387021

Ion Ratio Lower Upper

113 100

111 103.4 84.2 126.4

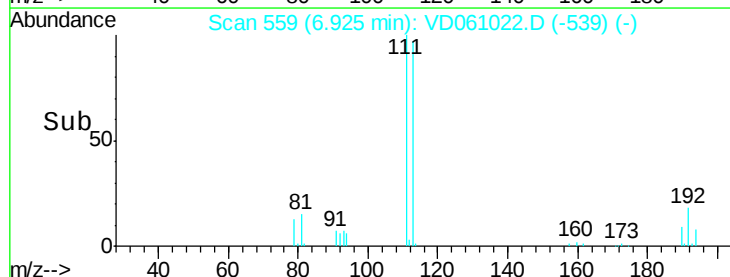
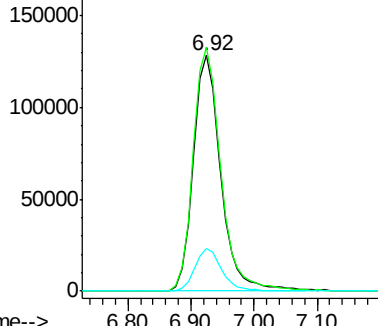
192 18.2 13.1 19.7

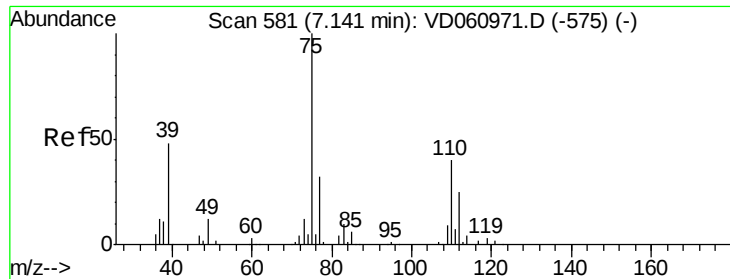


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.684 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-2

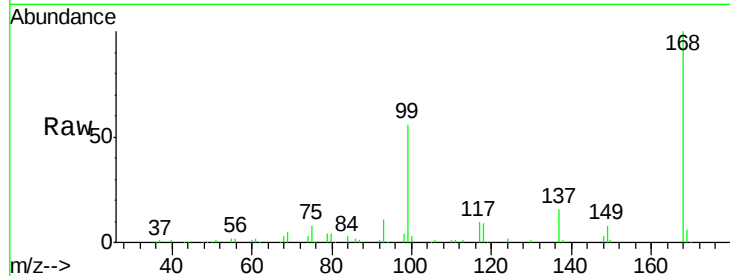
Tot Ion: 75 Resp: 45336

Ion Ratio Lower Upper

75 100

110 7.7 19.7 59.1#

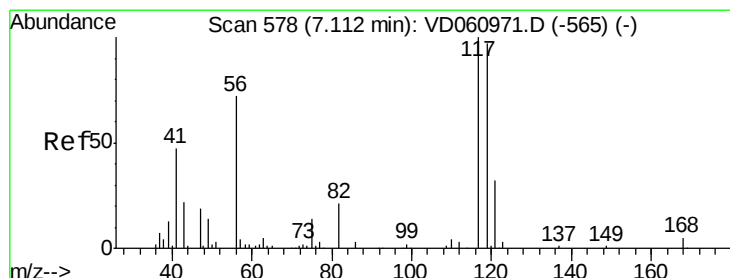
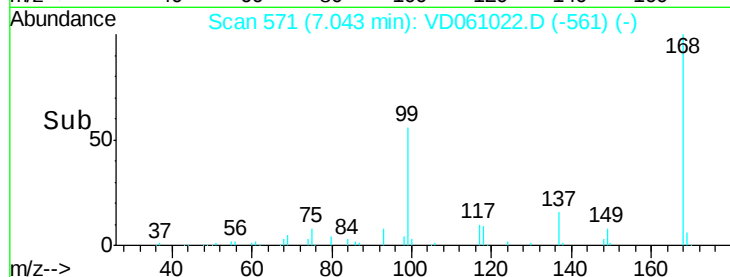
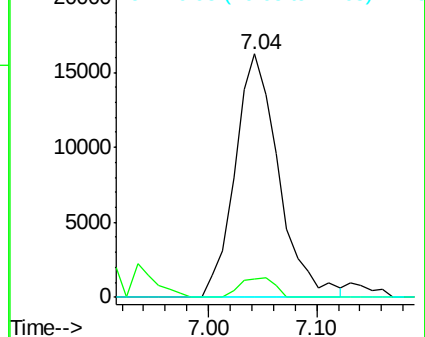
77 0.0 24.7 37.1#



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



#38

Carbon Tetrachloride

Concen: 5.572 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

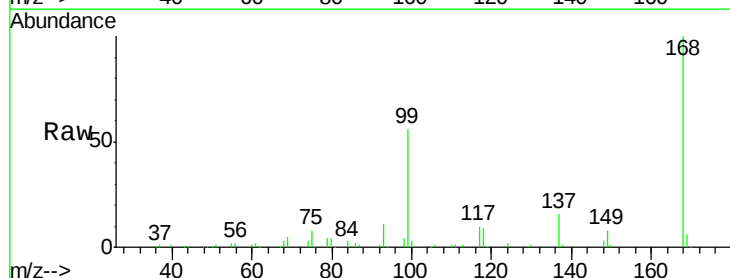
Tgt Ion: 117 Resp: 59411

Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.8#

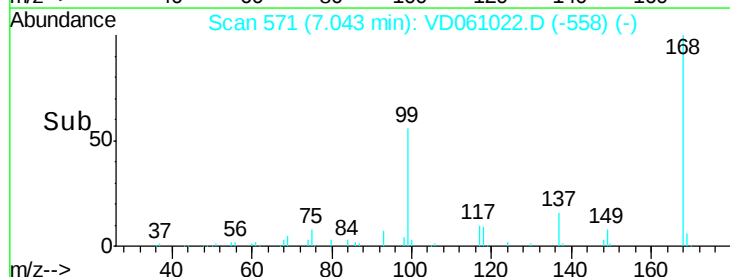
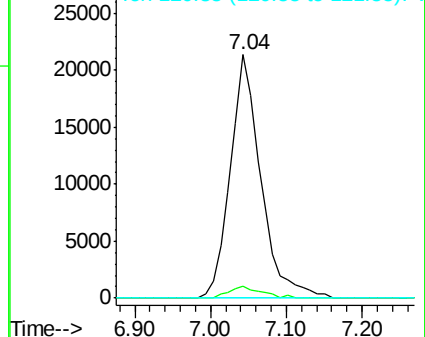
121 0.0 25.3 37.9#

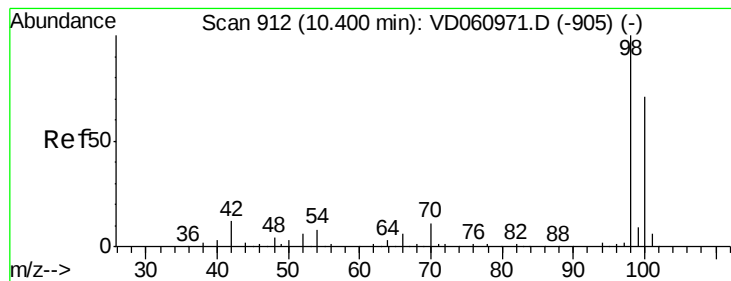


Abundance Ion 116.85 (116.55 to 117.55): V

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: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

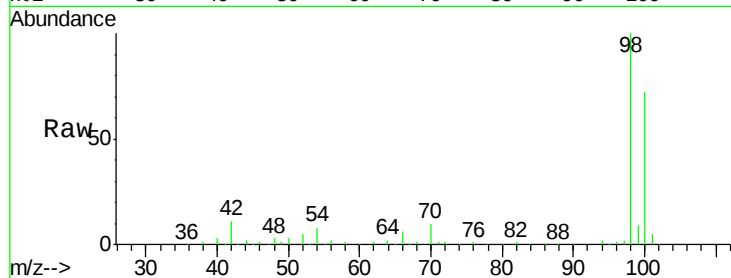
TP-2

Tot Ion: 98 Resp: 948683

Ion Ratio Lower Upper

98 100

100 71.5 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.41

400000

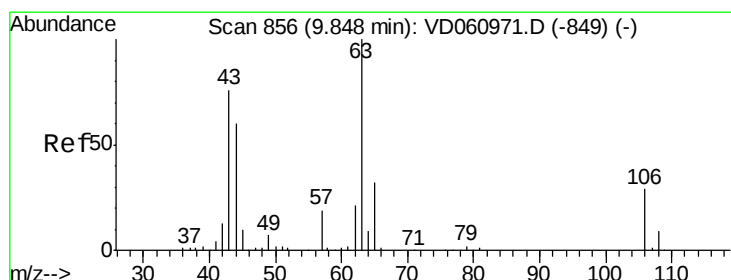
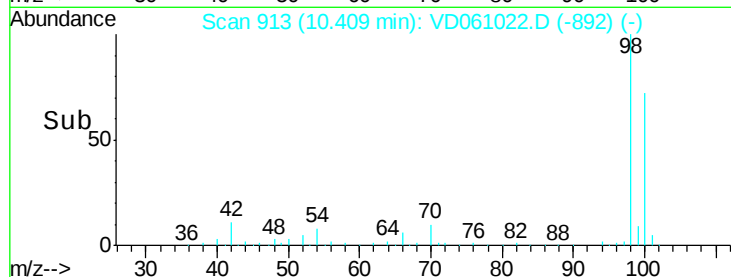
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.422 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD061022.D

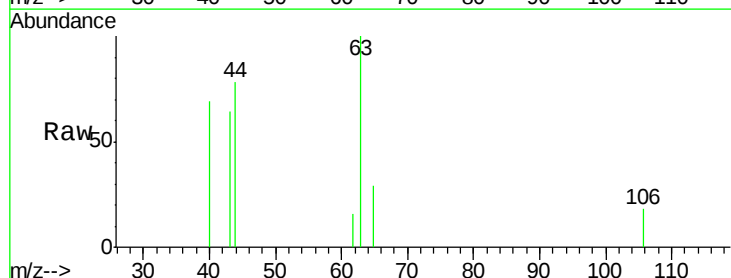
Acq: 12 Mar 2019 14:19

Tgt Ion: 63 Resp: 3945

Ion Ratio Lower Upper

63 100

106 17.9 22.8 34.2#



Abundance Ion 62.95 (62.65 to 63.65): VD060971.D (-849) (-)

Ion 105.95 (105.65 to 106.65): VD060971.D (-849) (-)

9.86

2500

2000

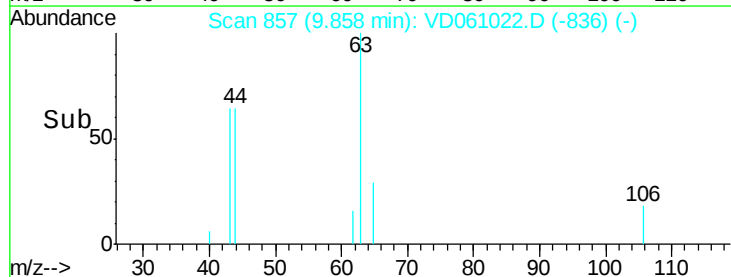
1500

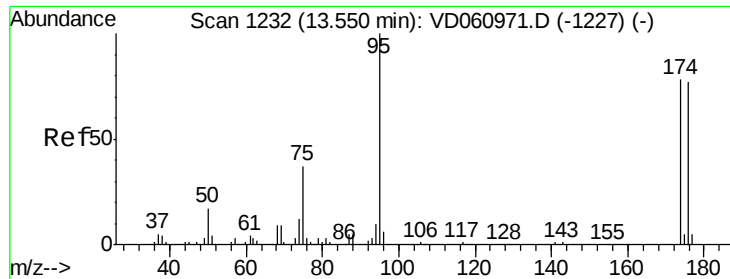
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-2

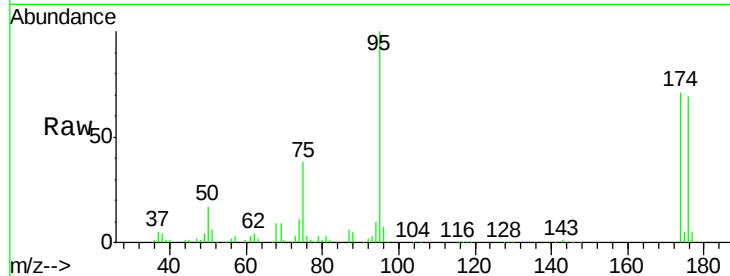
Tot Ion: 95 Resp: 302783

Ion Ratio Lower Upper

95 100

174 70.7 0.0 155.6

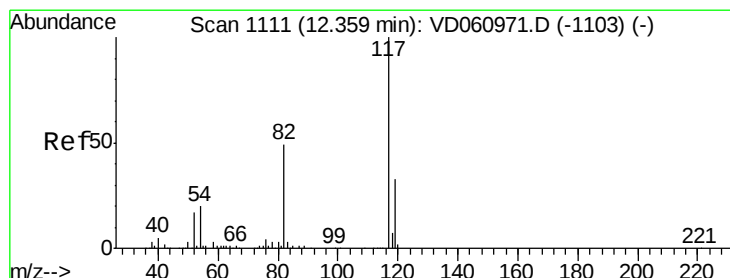
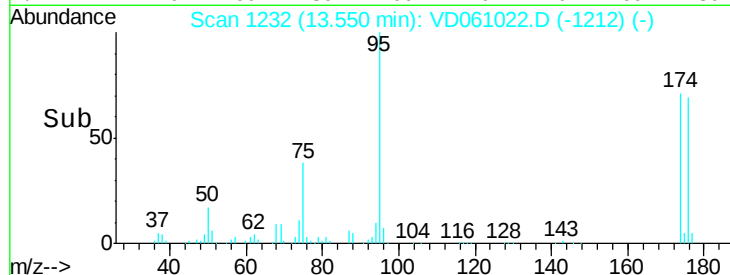
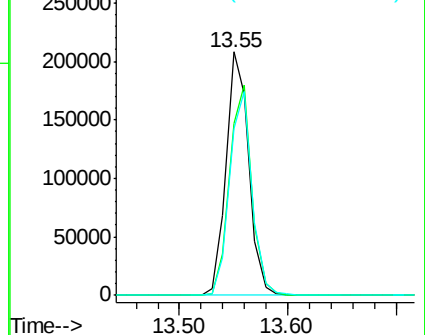
176 68.5 0.0 153.8



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: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

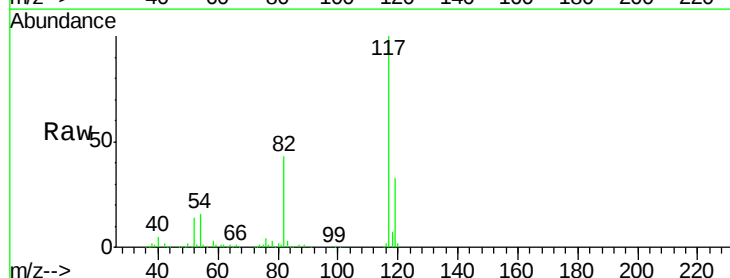
Tgt Ion: 117 Resp: 771409

Ion Ratio Lower Upper

117 100

82 42.5 38.9 58.3

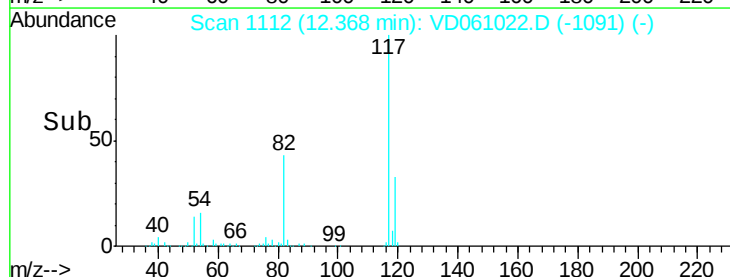
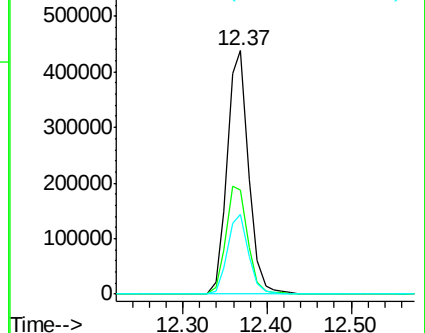
119 32.9 26.6 39.8

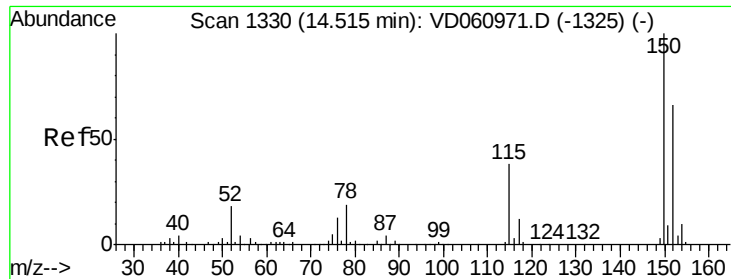


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

Instrument :

MSVOA_D

ClientSampleId :

TP-2

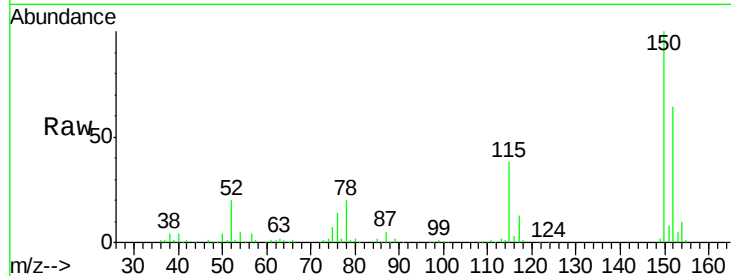
Tot Ion:152 Resp: 281637

Ion Ratio Lower Upper

152 100

115 59.4 28.6 85.9

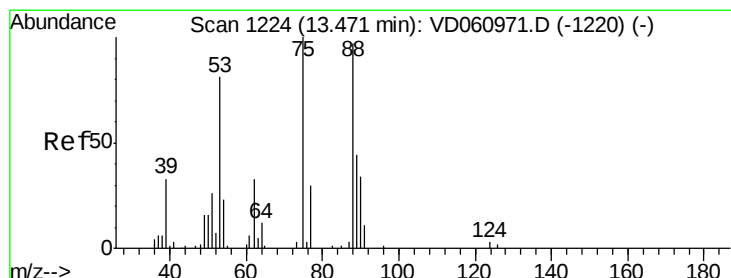
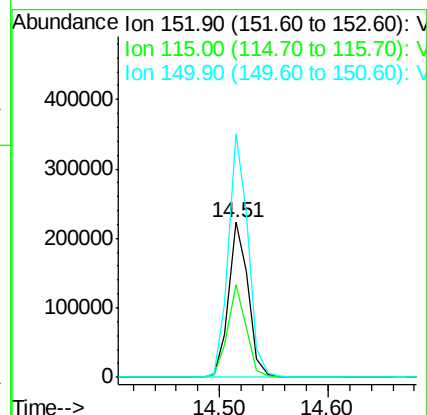
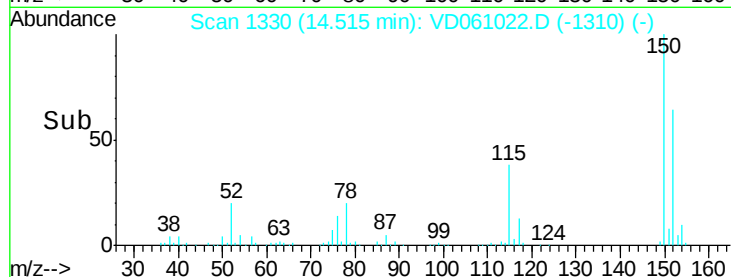
150 157.0 0.0 310.6



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: 92.633 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061022.D

Acq: 12 Mar 2019 14:19

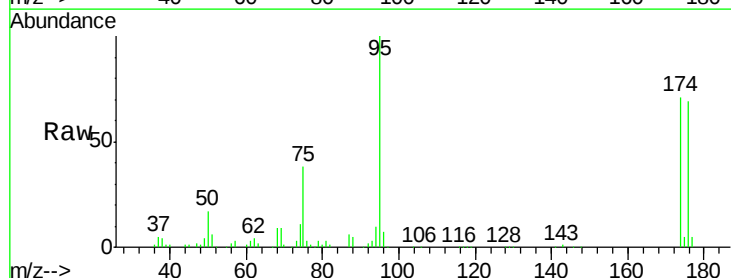
Tgt Ion: 75 Resp: 110657

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

