

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061838.D
 Acq On : 17 Apr 2019 6:31
 Operator : VA/AP
 Sample : K2423-07
 Misc : 3.01g/5ml/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 07:04:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	507865	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	833453	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	702683	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.51	152	336580	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	177885	41.79	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	83.58%	
35) Dibromofluoromethane	6.92	113	287052	45.59	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	91.18%	
50) Toluene-d8	10.41	98	651853	43.69	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	87.38%	
62) 4-Bromofluorobenzene	13.55	95	264062	43.67	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	87.34%	

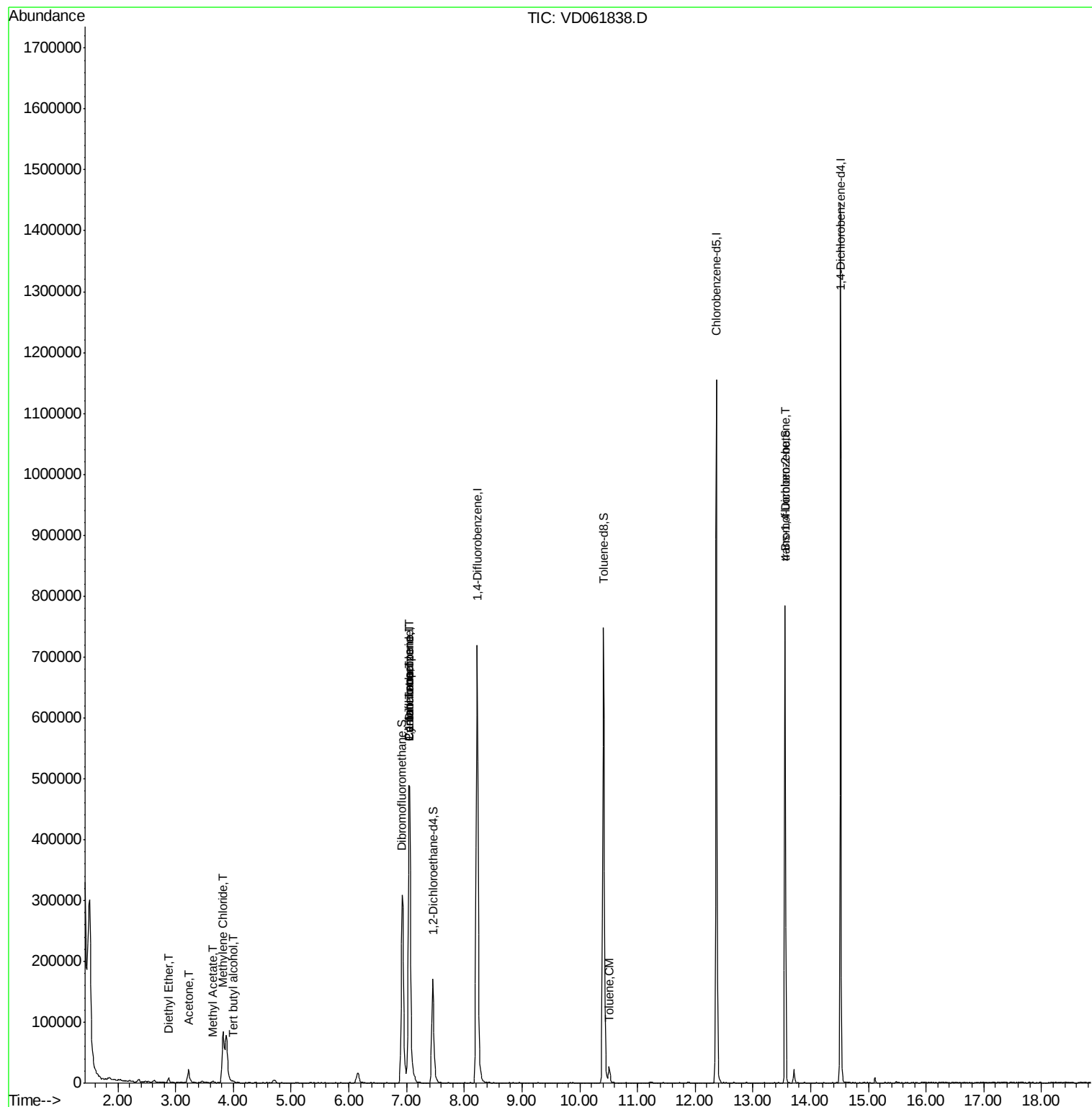
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	230	Below Cal	#	12
8) Diethyl Ether	2.88	74	3075	1.845	ug/l	78
11) Tert butyl alcohol	4.00	59	1113	4.434	ug/l #	76
16) Acetone	3.22	43	42669	40.674	ug/l	94
18) Methyl Acetate	3.64	43	5320	2.530	ug/l #	53
20) Methylene Chloride	3.82	84	67749	9.255	ug/l	97
31) Cyclohexane	7.04	56	8729	1.354	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	37803	5.551	ug/l #	44
38) Carbon Tetrachloride	7.05	117	47854	5.564	ug/l #	16
52) Toluene	10.51	92	13869	1.324	ug/l	90
81) trans-1,4-Dichloro-2-buten	13.55	75	98590	67.565	ug/l #	16

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

Instrument :

MSVOA_D

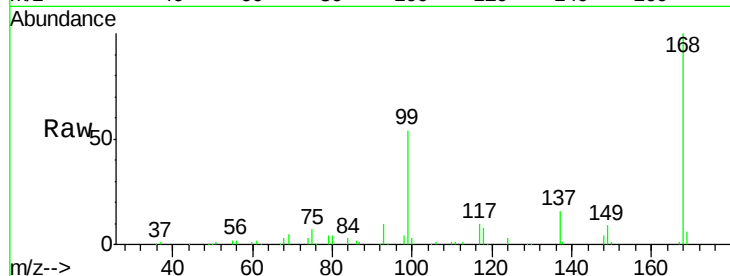
ClientSampleId :

Tot Ion:168 Resp: 507865

Ion Ratio Lower Upper

168 100

99 53.9 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

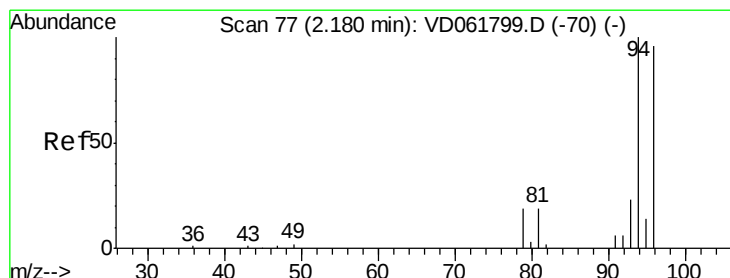
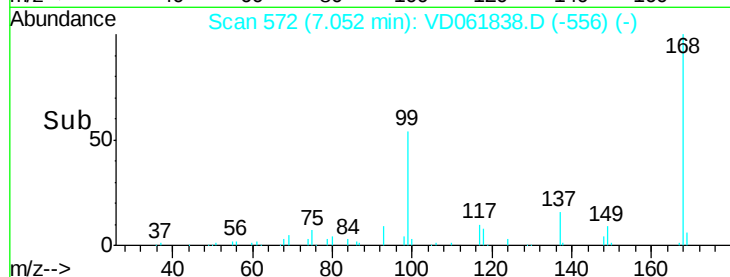
100000

50000

0

7.00 7.20

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

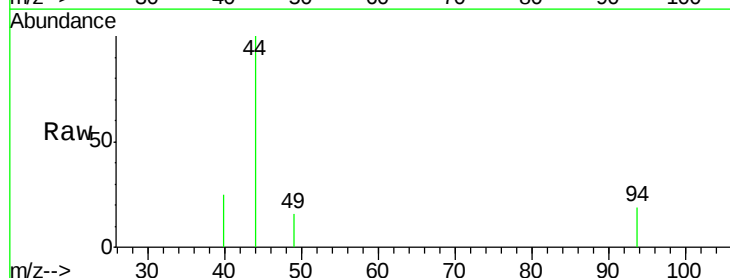
Tgt Ion: 94 Resp: 230

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

2.18

500

400

300

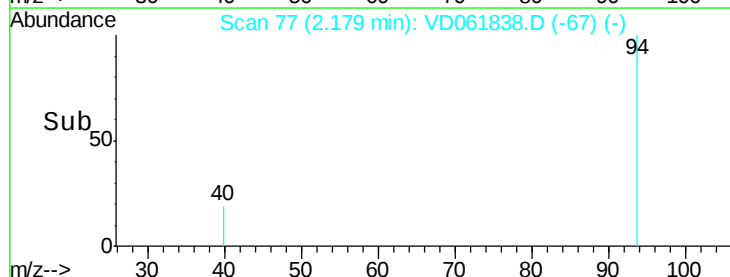
200

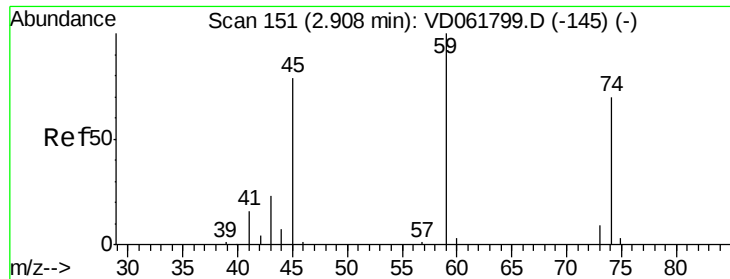
100

0

2.14 2.16 2.18 2.20

Time-->





#8

Diethyl Ether

Concen: 1.845 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.03 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

Instrument :

MSVOA_D

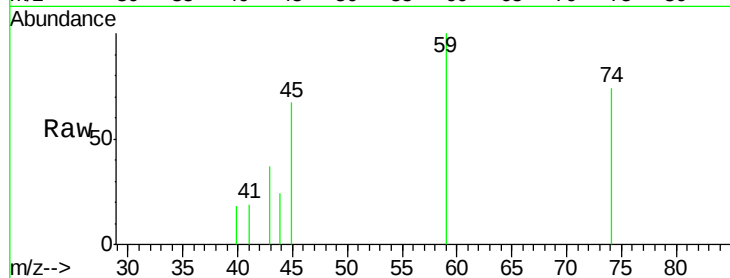
ClientSampleId :

Tot Ion: 74 Resp: 3075

Ion Ratio Lower Upper

74 100

45 89.8 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.88

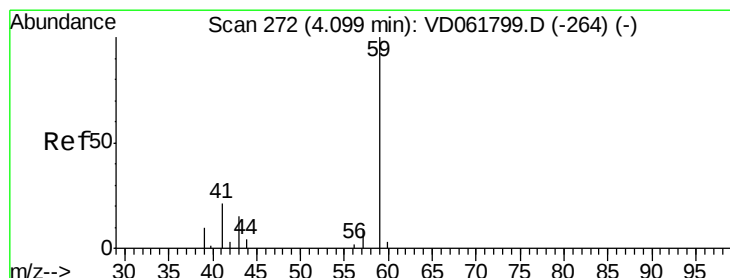
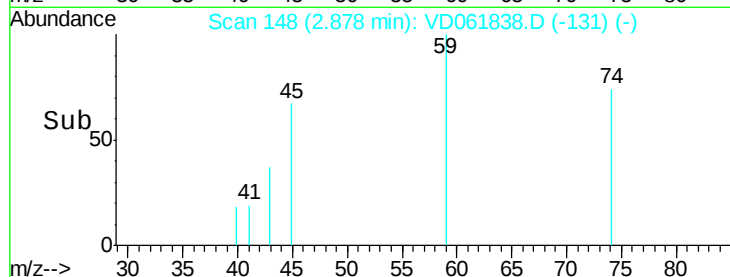
1500

1000

500

0

Time--> 2.80 2.85 2.90



#11

Tert butyl alcohol

Concen: 4.434 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.10 min

Lab File: VD061838.D

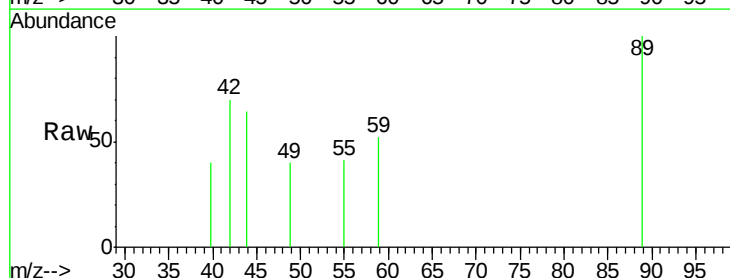
Acq: 17 Apr 2019 6:31

Tgt Ion: 59 Resp: 1113

Ion Ratio Lower Upper

59 100

57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.00

400

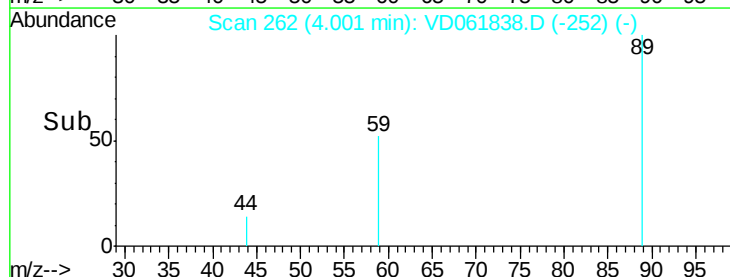
300

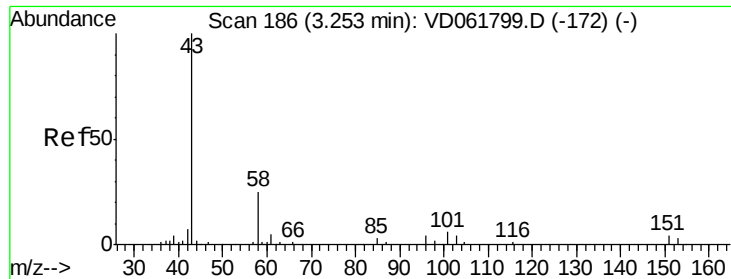
200

100

0

Time--> 3.95 4.00 4.05





#16

Acetone

Concen: 40.674 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.03 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

Instrument :

MSVOA_D

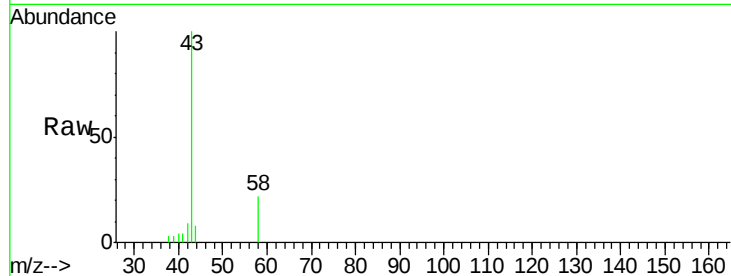
ClientSampleId :

Tot Ion: 43 Resp: 42669

Ion Ratio Lower Upper

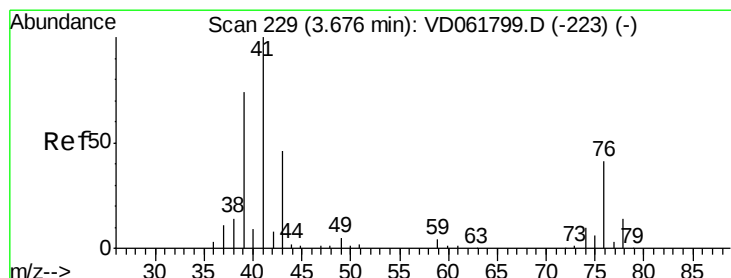
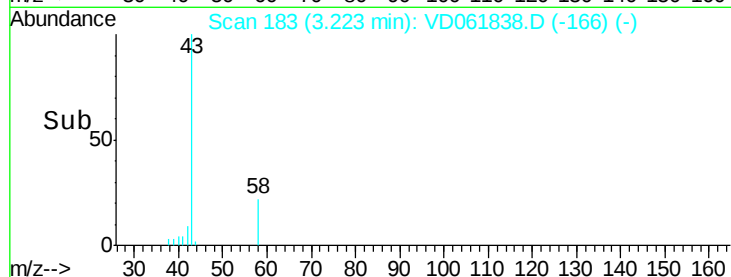
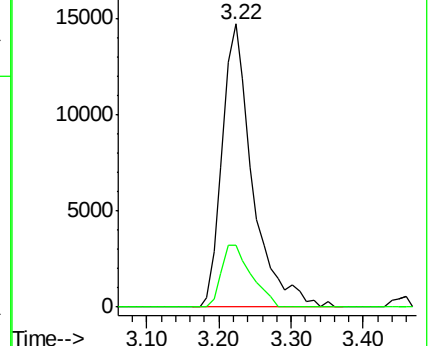
43 100

58 22.0 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.530 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.04 min

Lab File: VD061838.D

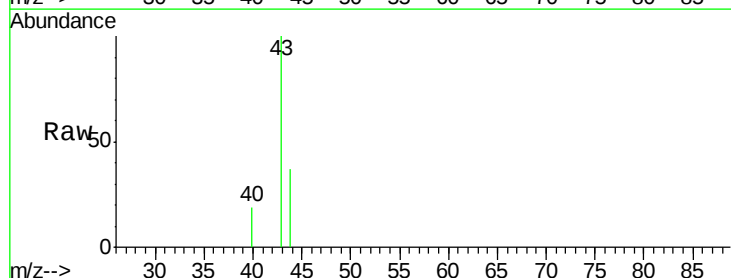
Acq: 17 Apr 2019 6:31

Tgt Ion: 43 Resp: 5320

Ion Ratio Lower Upper

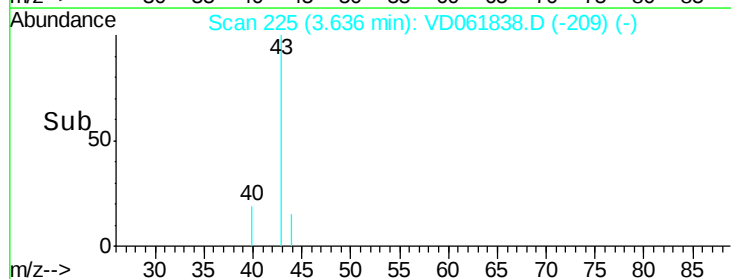
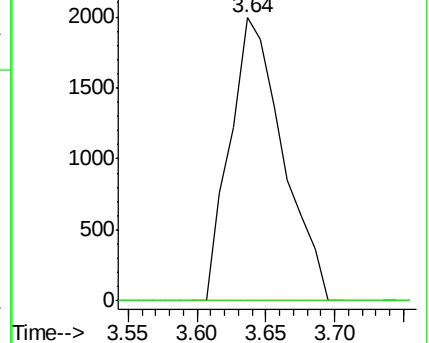
43 100

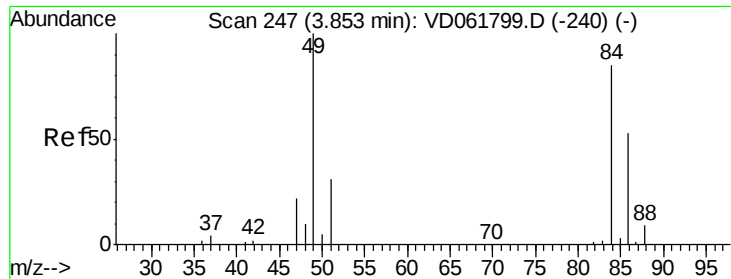
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

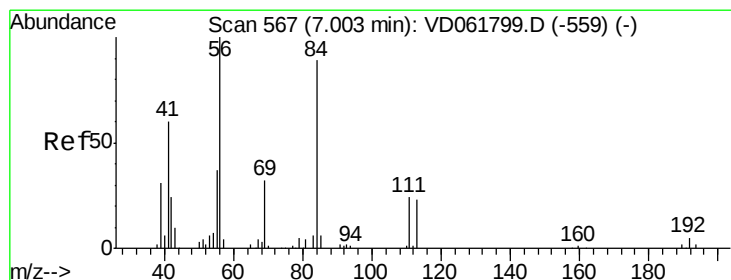
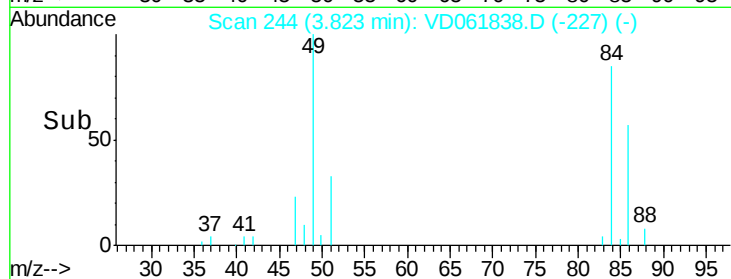
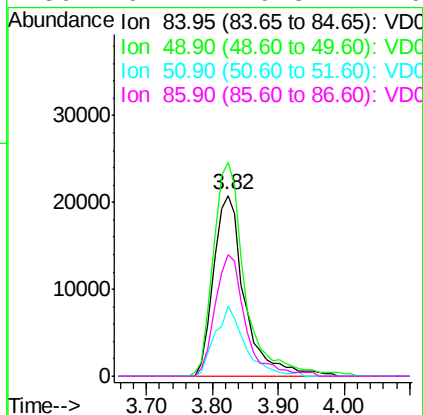
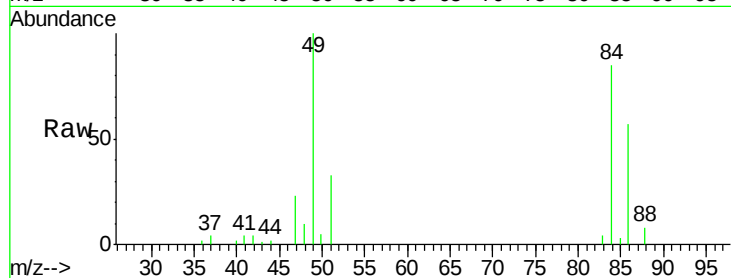




#20
Methylene Chloride
Concen: 9.255 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.03 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

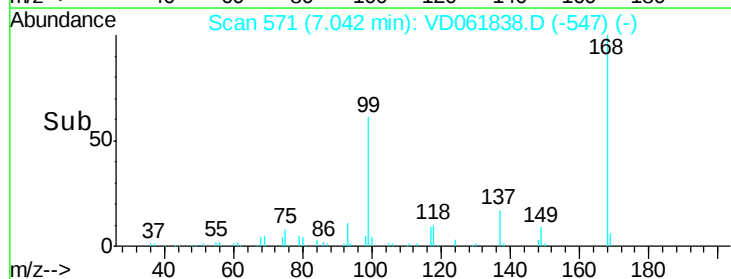
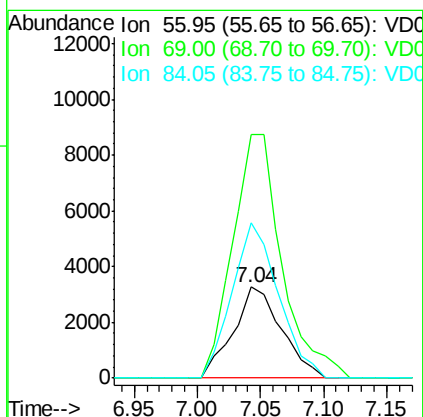
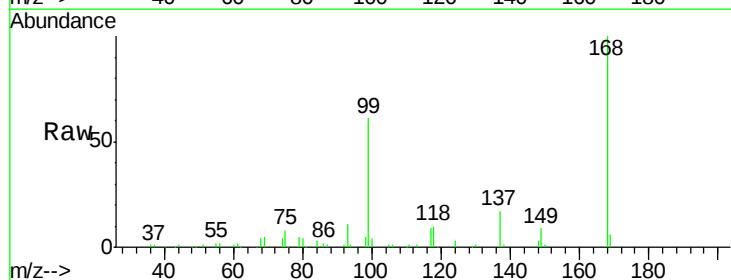
Instrument :
MSVOA_D
ClientSampleId :

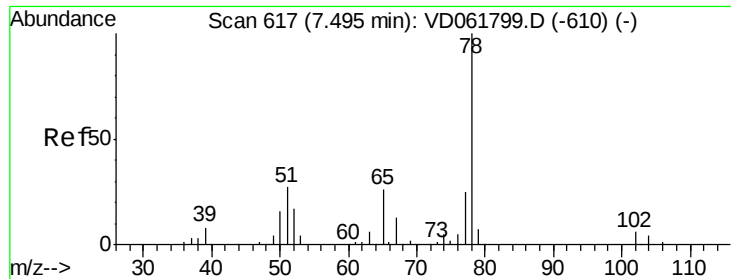
Tot Ion: 84 Resp: 67749
Ion Ratio Lower Upper
84 100
49 118.2 94.0 141.0
51 39.2 29.0 43.4
86 67.2 49.8 74.6



#31
Cyclohexane
Concen: 1.354 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.04 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

Tgt Ion: 56 Resp: 8729
Ion Ratio Lower Upper
56 100
69 267.3 25.8 38.6#
84 170.4 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

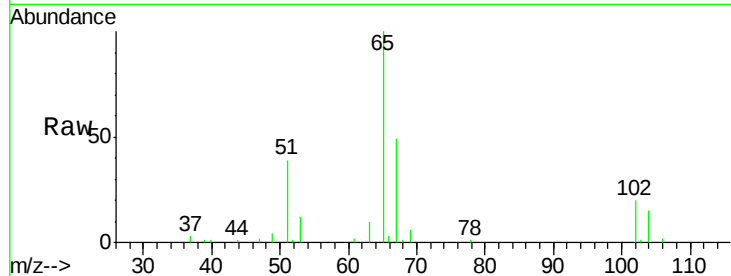
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 177885

Ion Ratio Lower Upper

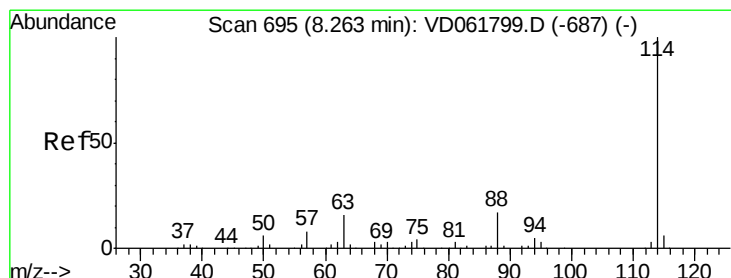
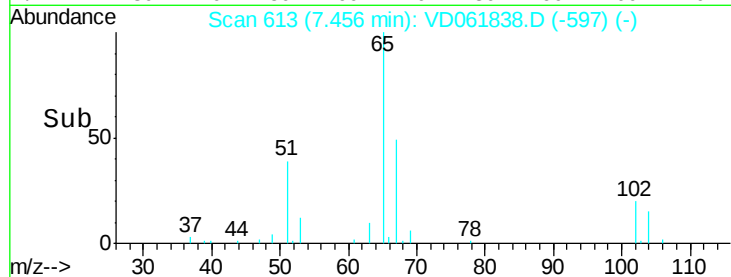
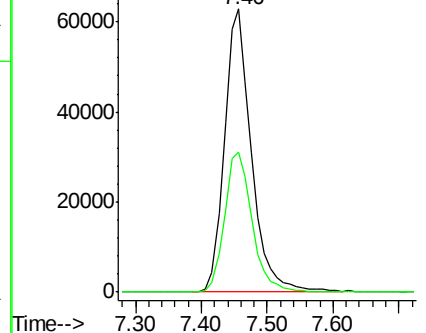
65 100

67 49.4 0.0 98.0



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: 8.22 min Scan# 691

Delta R.T. -0.04 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

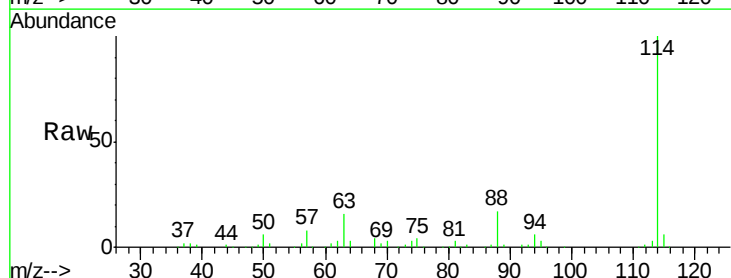
Tgt Ion: 114 Resp: 833453

Ion Ratio Lower Upper

114 100

63 16.1 0.0 32.4

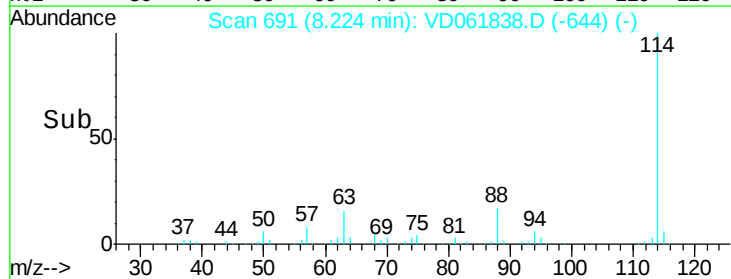
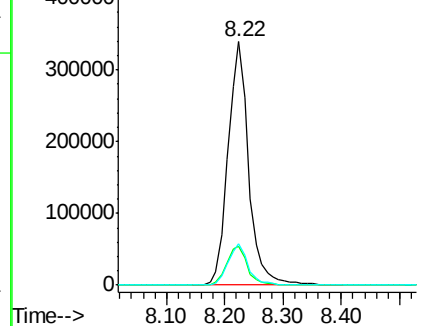
88 17.2 0.0 33.6

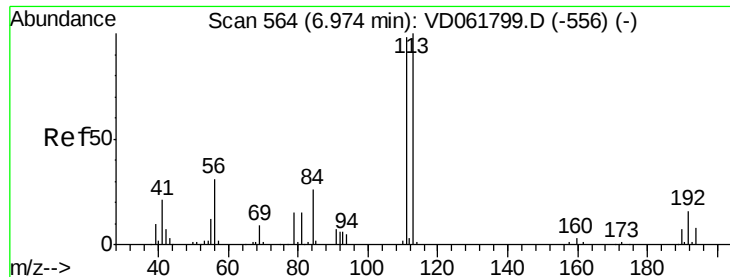


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.05 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

Instrument :

MSVOA_D

ClientSampleId :

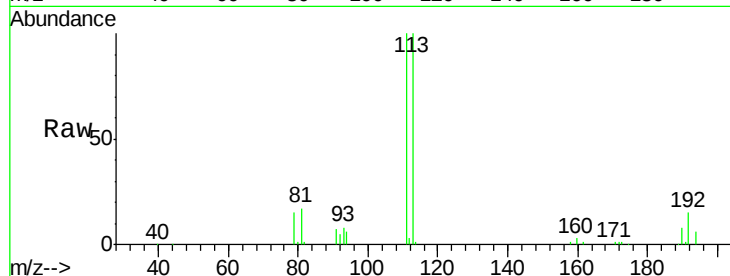
Tot Ion:113 Resp: 287052

Ion Ratio Lower Upper

113 100

111 99.9 78.5 117.7

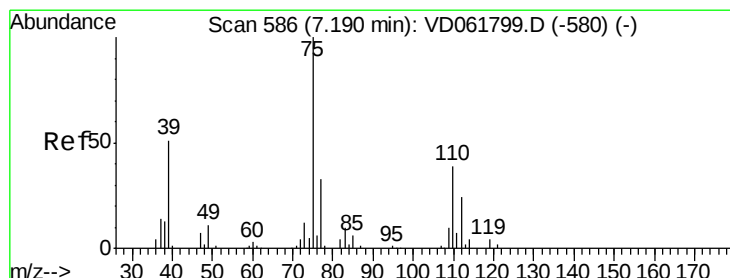
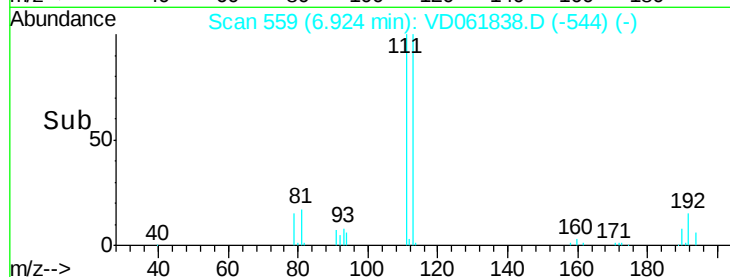
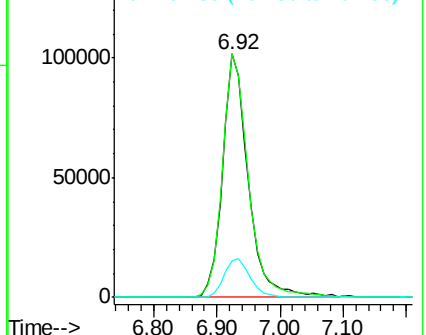
192 15.1 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.551 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.15 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

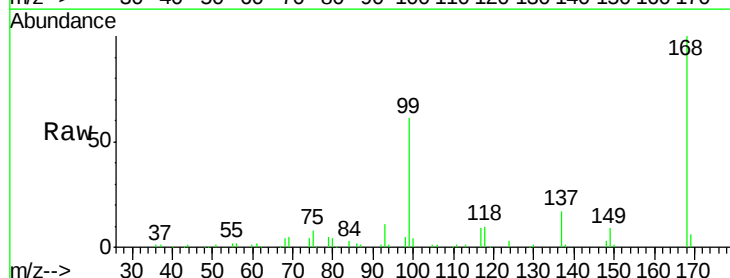
Tgt Ion: 75 Resp: 37803

Ion Ratio Lower Upper

75 100

110 4.9 19.1 57.1#

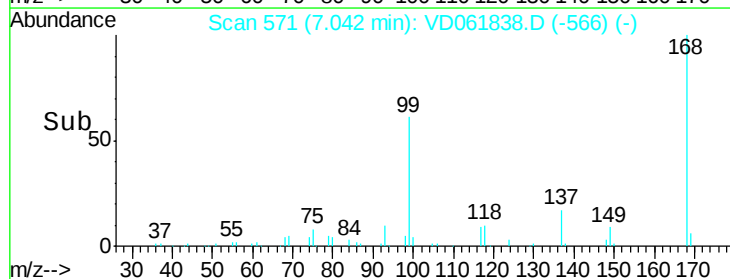
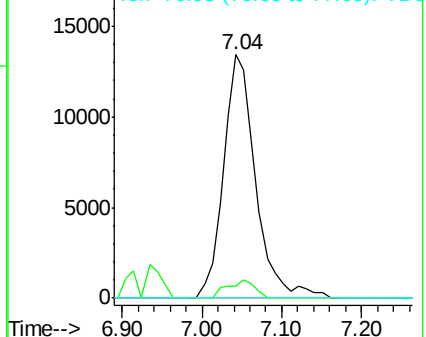
77 0.0 25.6 38.4#

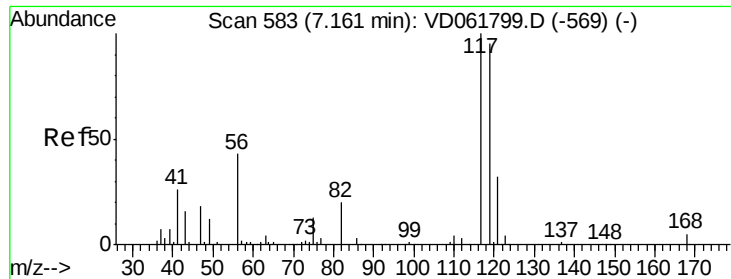


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

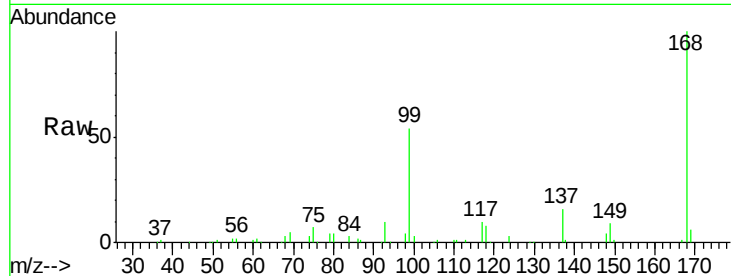




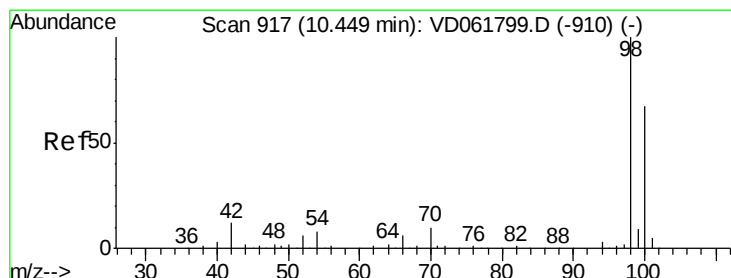
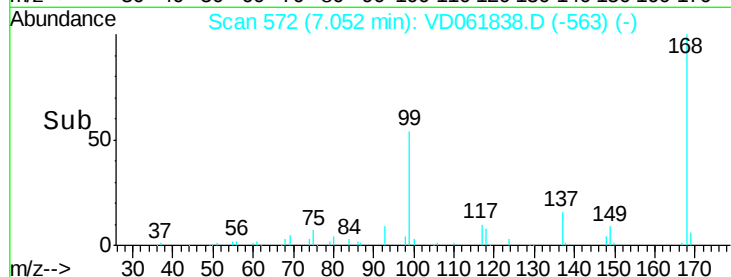
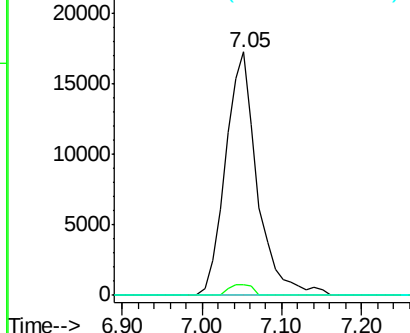
#38
Carbon Tetrachloride
Concen: 5.564 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.11 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 47854
Ion Ratio Lower Upper
117 100
119 4.2 75.8 113.8#
121 0.0 25.9 38.9#

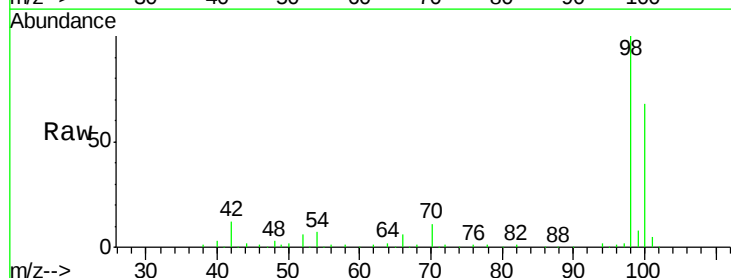


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

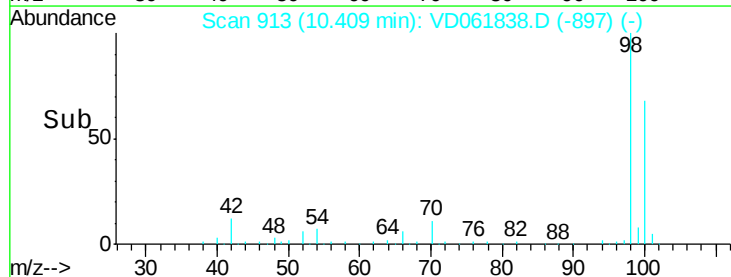
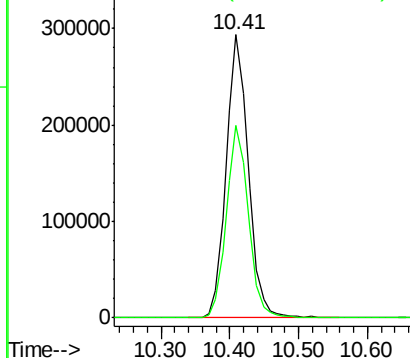


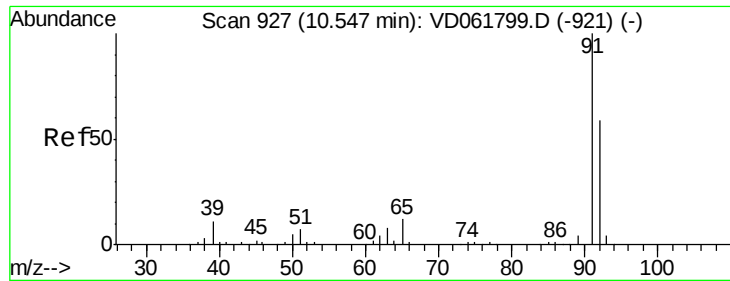
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.04 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

Tgt Ion: 98 Resp: 651853
Ion Ratio Lower Upper
98 100
100 67.9 53.8 80.8



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





#52

Toluene

Concen: 1.324 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.04 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

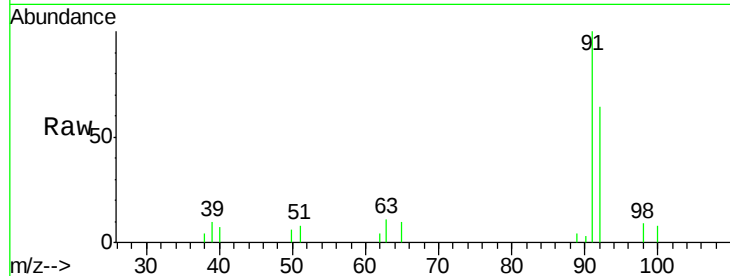
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 13869

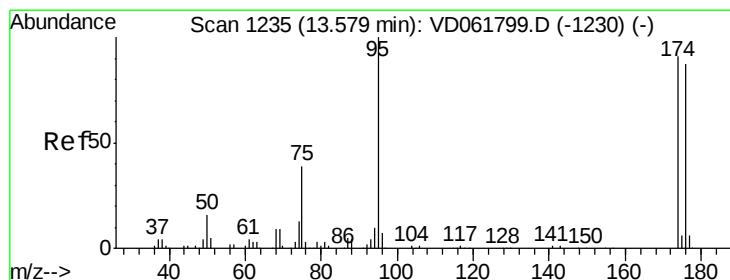
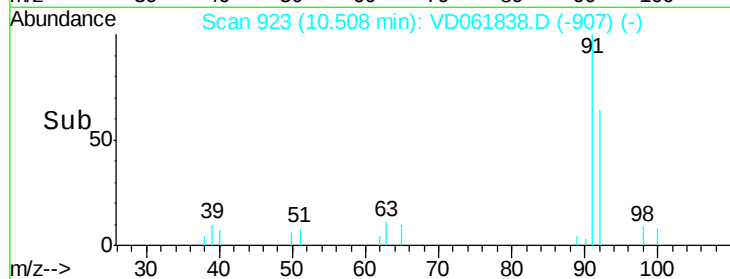
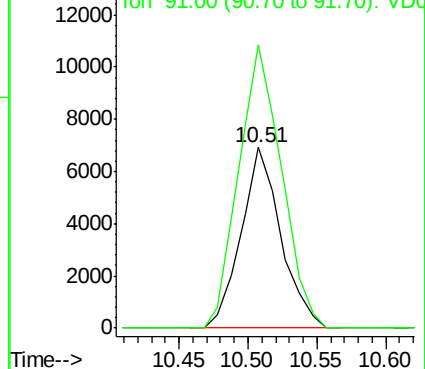
Ion Ratio Lower Upper

92 100

91 156.7 136.6 204.8



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: 13.55 min Scan# 1232

Delta R.T. -0.03 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

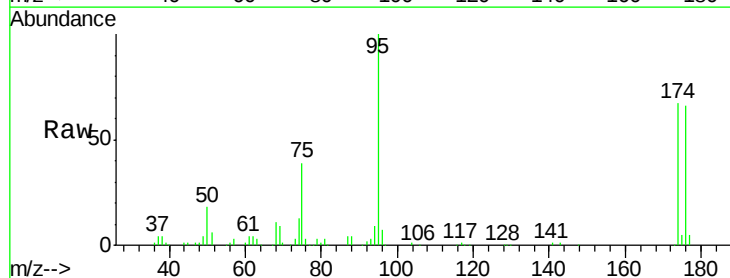
Tgt Ion: 95 Resp: 264062

Ion Ratio Lower Upper

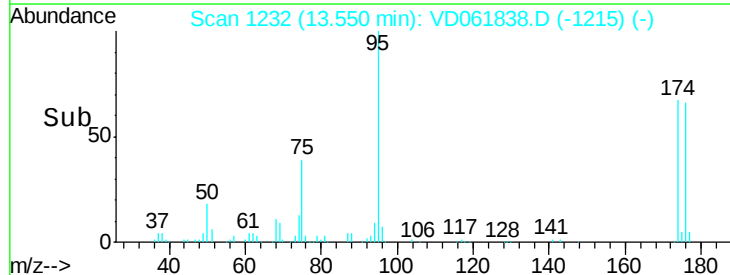
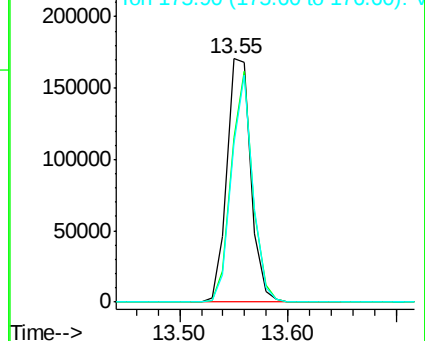
95 100

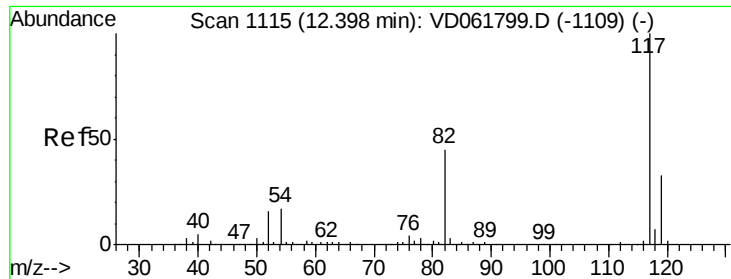
174 67.5 0.0 181.8

176 65.5 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

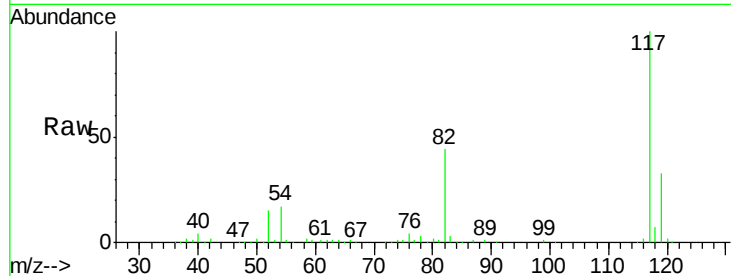




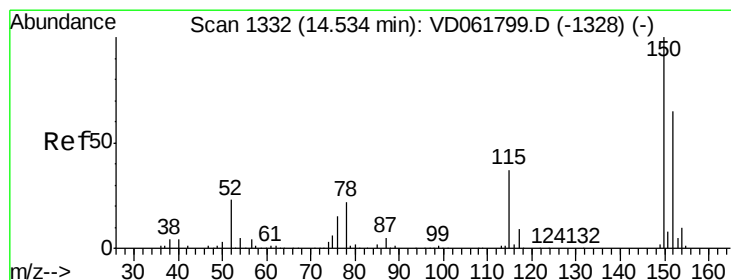
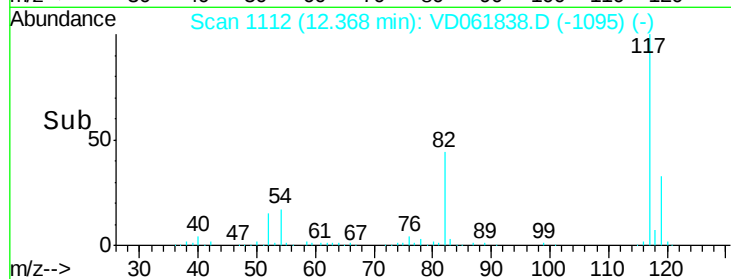
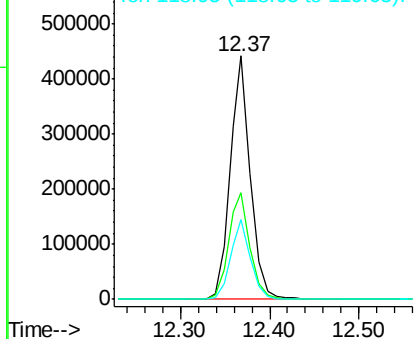
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 702683
Ion Ratio Lower Upper
117 100
82 43.9 36.2 54.2
119 32.9 26.2 39.4

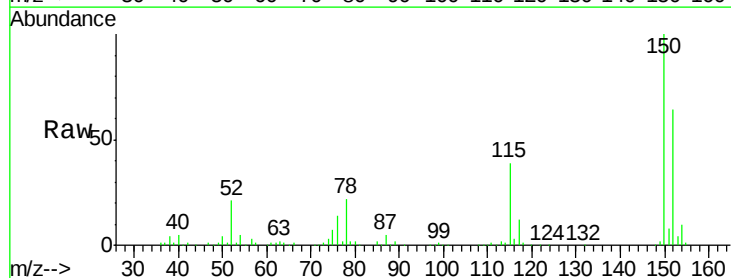


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

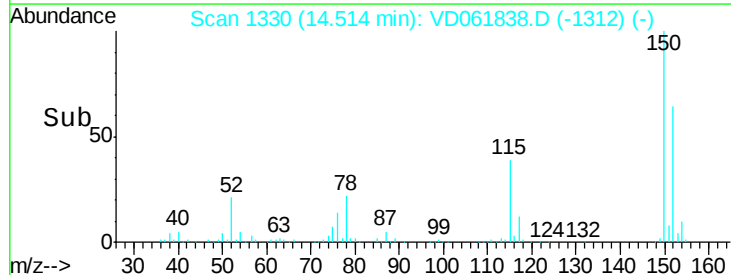
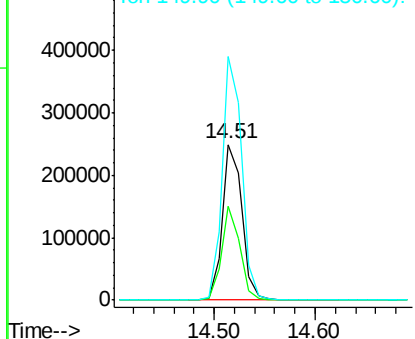


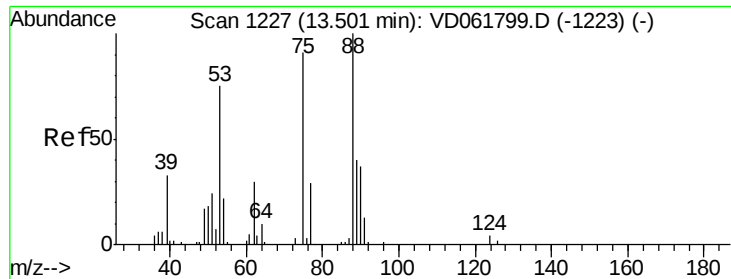
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061838.D
Acq: 17 Apr 2019 6:31

Tgt Ion:152 Resp: 336580
Ion Ratio Lower Upper
152 100
115 60.4 30.9 92.7
150 156.7 0.0 314.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 67.565 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.05 min

Lab File: VD061838.D

Acq: 17 Apr 2019 6:31

Instrument :

MSVOA_D

ClientSampleId :

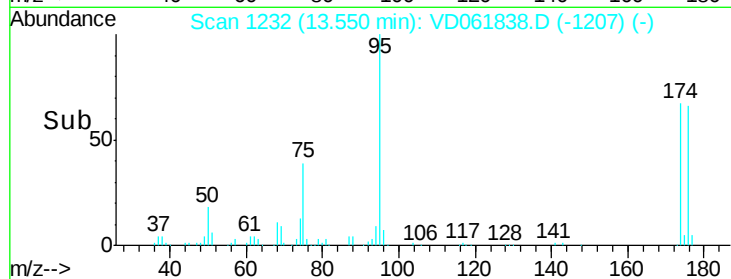
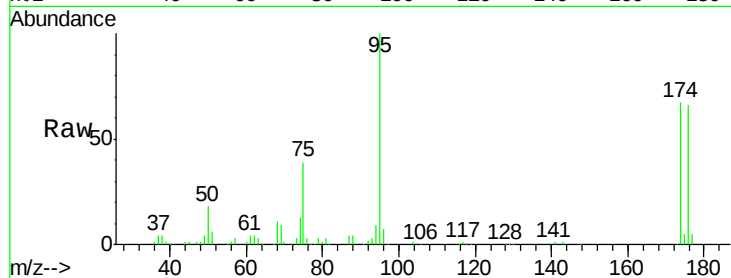
Tot Ion: 75 Resp: 98590

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#



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

