

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091918\
 Data File : VD060041.D
 Acq On : 19 Sep 2018 14:08
 Operator : JC/SY
 Sample : J4975-01RE
 Misc : 5.20g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 20 05:44:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1106837	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	7.45	114	1518303	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.29	117	1178271	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.37	152	518640	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	359630	41.67	ug/l	0.03
Spiked Amount			Recovery	=	83.34%	
35) Dibromofluoromethane	6.33	113	281972	23.77	ug/l	0.03
Spiked Amount			Recovery	=	47.54%	
50) Toluene-d8	9.46	98	1247510	37.95	ug/l	0.02
Spiked Amount			Recovery	=	75.90%	
62) 4-Bromofluorobenzene	12.43	95	432362	34.43	ug/l	0.02
Spiked Amount			Recovery	=	68.86%	

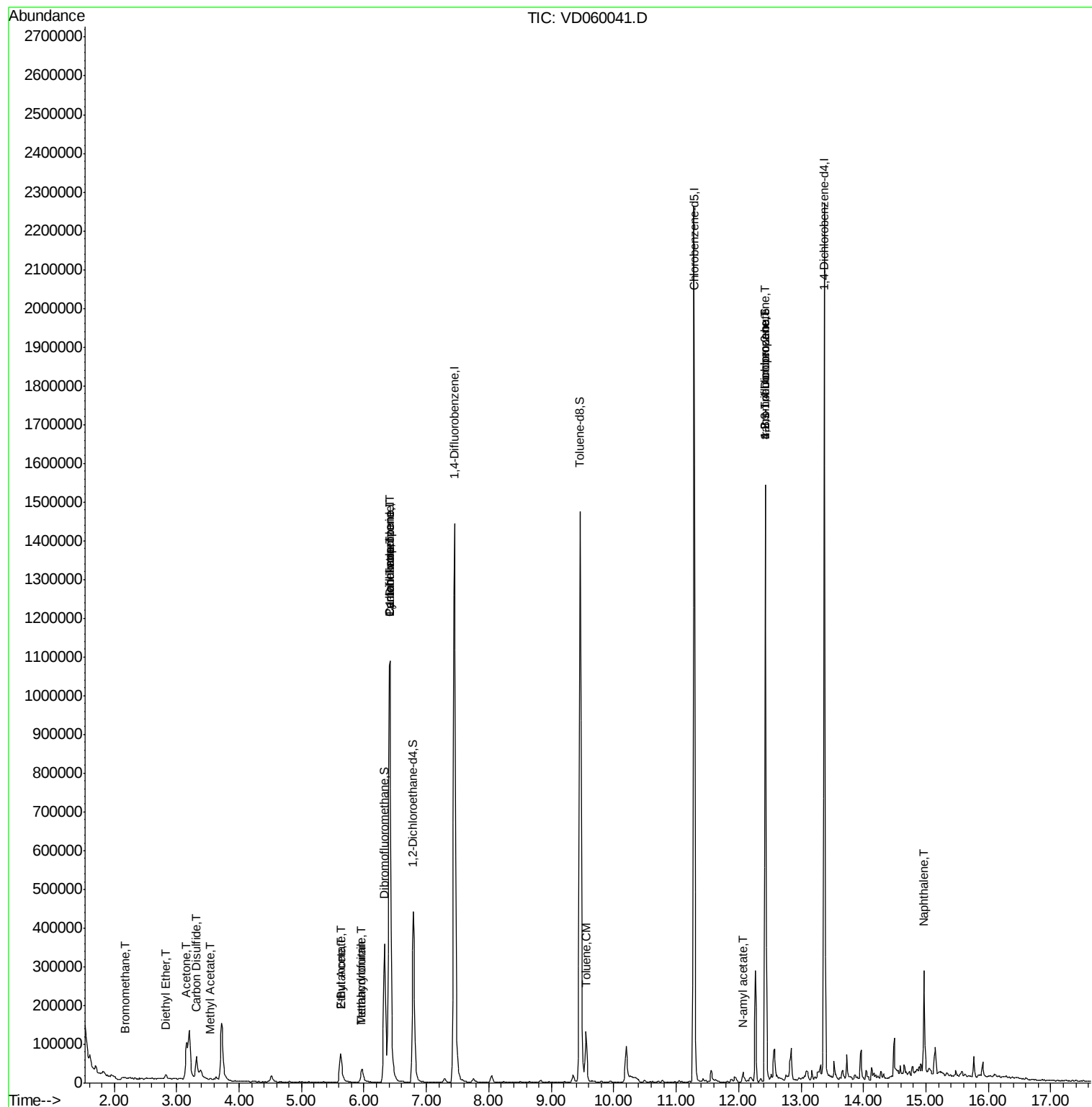
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	1192	1.21	ug/l	# 1
8) Diethyl Ether	2.82	74	3587	1.85	ug/l	# 77
16) Acetone	3.16	43	198614	119.18	ug/l	# 95
17) Carbon Disulfide	3.31	76	95133	6.06	ug/l	# 98
18) Methyl Acetate	3.54	43	3608	1.06	ug/l	# 64
25) 2-Butanone	5.63	43	149042	33.14	ug/l	# 99
29) Tetrahydrofuran	5.96	42	17670	7.33	ug/l	# 95
31) Cyclohexane	6.40	56	20743	1.08	ug/l	# 1
36) 1,1-Dichloropropene	6.40	75	77535	5.14	ug/l	# 46
37) Ethyl Acetate	5.63	43	149581	14.42	ug/l	# 72
38) Carbon Tetrachloride	6.40	117	85250	6.06	ug/l	# 15
41) Methacrylonitrile	5.97	41	14952	2.75	ug/l	# 76
51) 4-Methyl-2-Pentanone	9.35	43	19734	Below	Cal	# 98
52) Toluene	9.55	92	64782	2.63	ug/l	# 96
59) 2-Hexanone	10.50	43	4933	Below	Cal	# 90
74) N-amyl acetate	12.07	43	16898	1.25	ug/l	# 57
76) 1,2,3-Trichloropropane	12.43	75	176068	22.23	ug/l	# 44
81) trans-1,4-Dichloro-2-buten	12.43	75	178871	74.81	ug/l	# 15
89) n-Butylbenzene	13.65	91	2219	Below	Cal	# 69
91) 1,2-Dichlorobenzene	13.67	146	1073	Below	Cal	# 85
95) Naphthalene	14.97	128	157065	8.38	ug/l	# 99

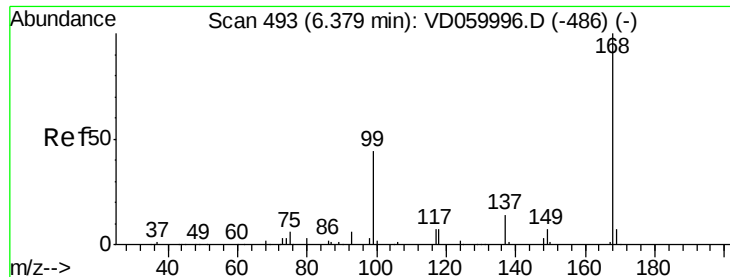
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.41 min Scan# 497

Delta R.T. 0.04 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

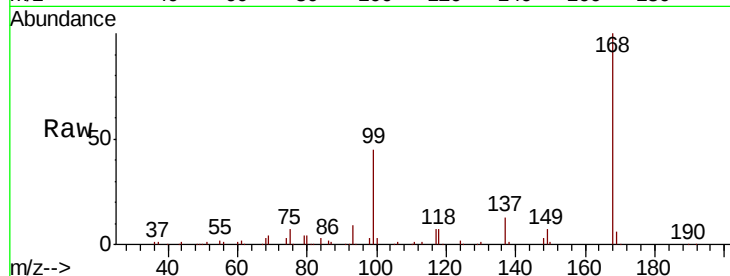
ClientSampleId :

Tot Ion:168 Resp: 1106837

Ion Ratio Lower Upper

168 100

99 45.4 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

400000

300000

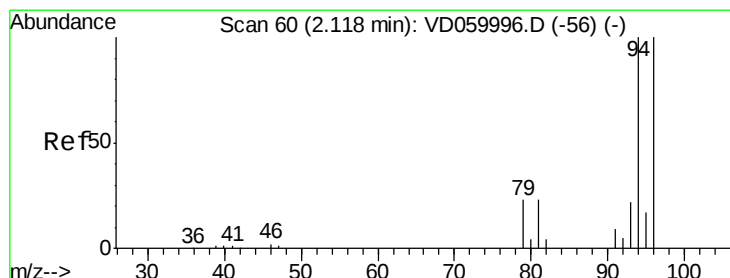
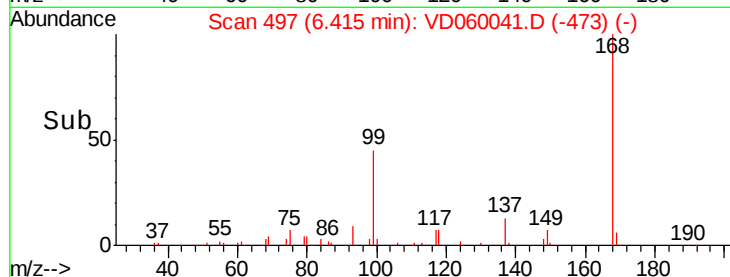
200000

100000

0

Time-->

6.30 6.40 6.50 6.60



#5

Bromomethane

Concen: 1.21 ug/l

RT: 2.18 min Scan# 67

Delta R.T. 0.07 min

Lab File: VD060041.D

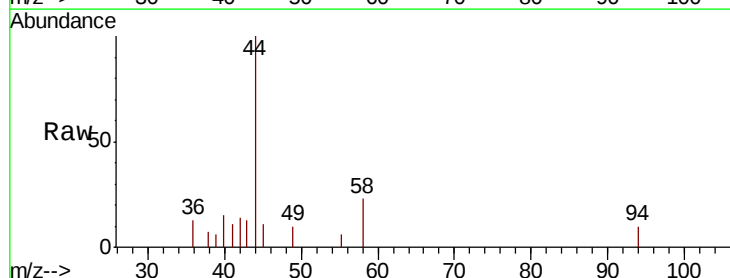
Acq: 19 Sep 2018 14:08

Tgt Ion: 94 Resp: 1192

Ion Ratio Lower Upper

94 100

96 0.0 79.8 119.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.18

600

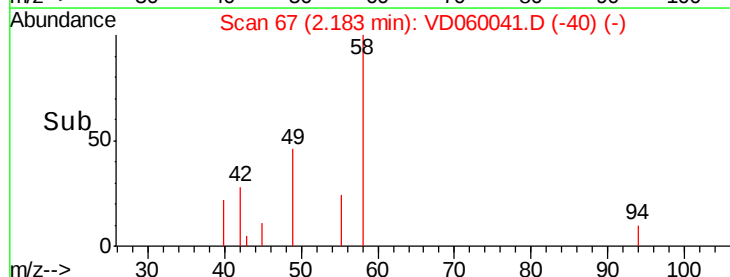
400

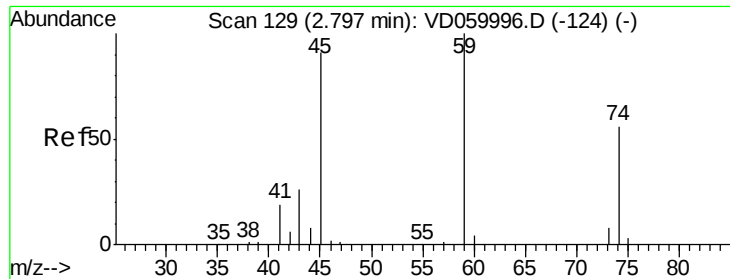
200

0

Time-->

2.10 2.15 2.20





#8

Diethyl Ether

Concen: 1.85 ug/l

RT: 2.82 min Scan# 132

Delta R.T. 0.03 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

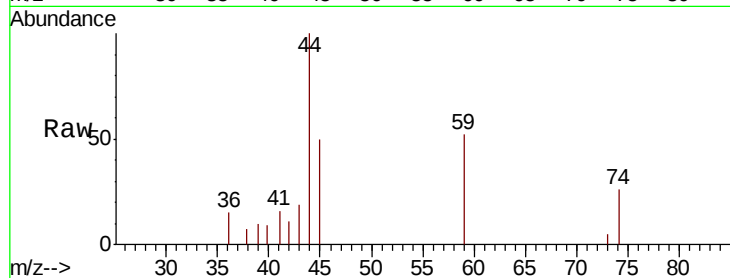
ClientSampled :

Tot Ion: 74 Resp: 3587

Ion Ratio Lower Upper

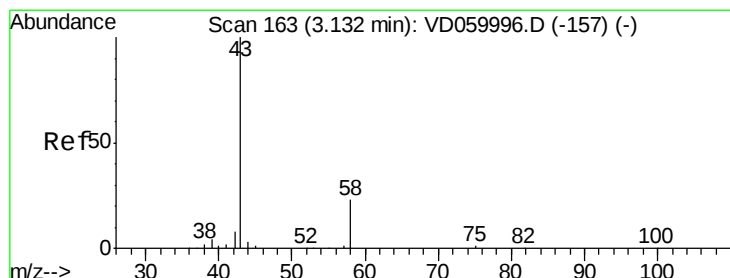
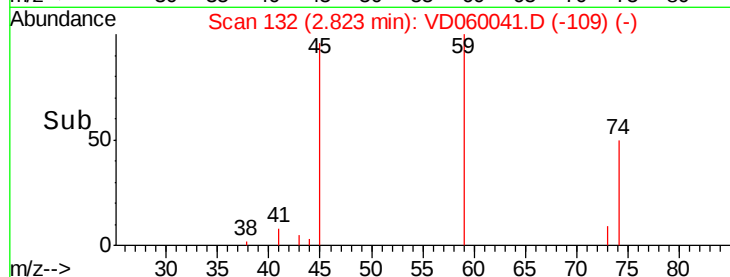
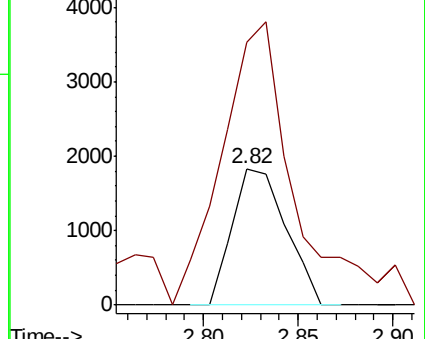
74 100

45 192.7 81.2 243.4



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 119.18 ug/l

RT: 3.16 min Scan# 166

Delta R.T. 0.03 min

Lab File: VD060041.D

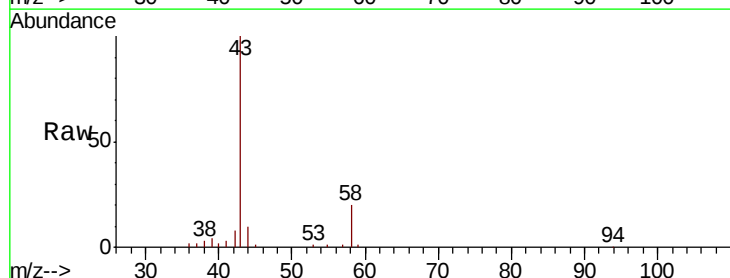
Acq: 19 Sep 2018 14:08

Tgt Ion: 43 Resp: 198614

Ion Ratio Lower Upper

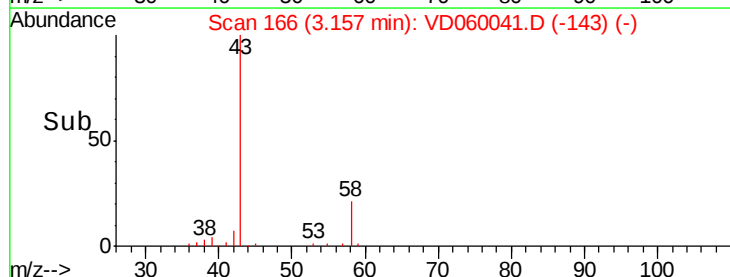
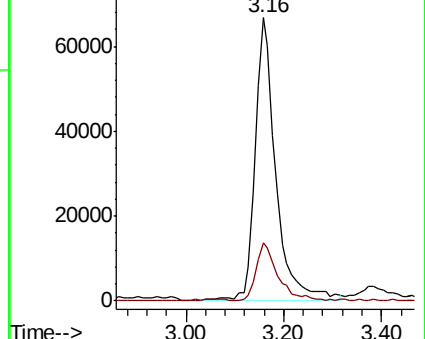
43 100

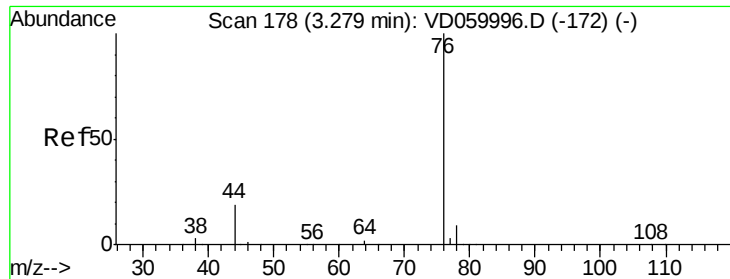
58 20.4 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 6.06 ug/l

RT: 3.31 min Scan# 182

Delta R.T. 0.04 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

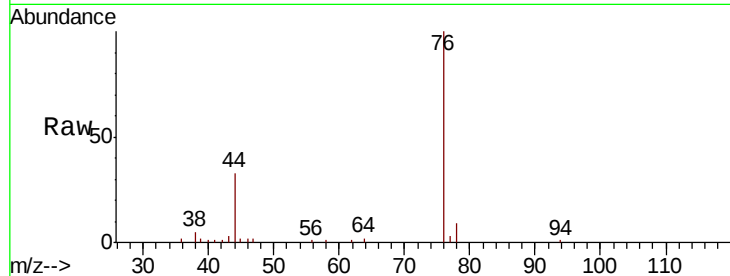
ClientSampleId :

Tot Ion: 76 Resp: 95133

Ion Ratio Lower Upper

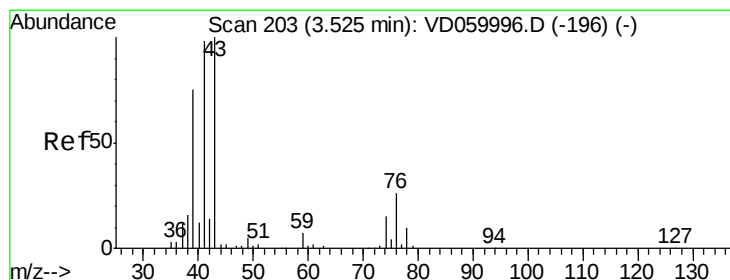
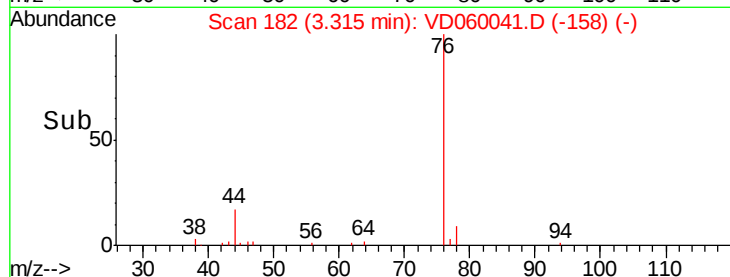
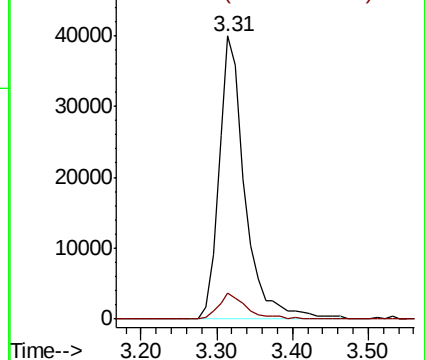
76 100

78 9.3 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 1.06 ug/l

RT: 3.54 min Scan# 205

Delta R.T. 0.02 min

Lab File: VD060041.D

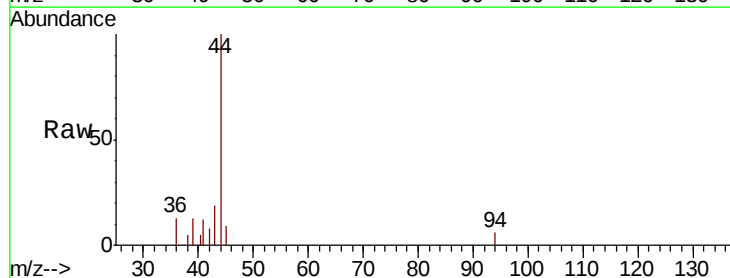
Acq: 19 Sep 2018 14:08

Tgt Ion: 43 Resp: 3608

Ion Ratio Lower Upper

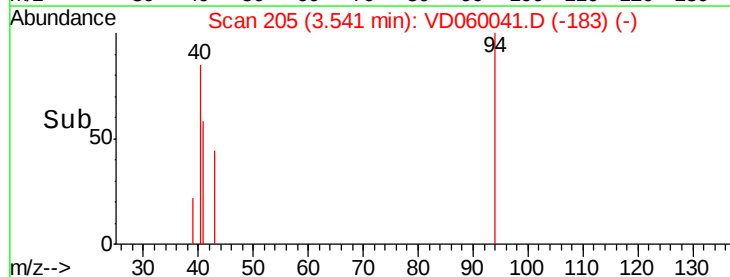
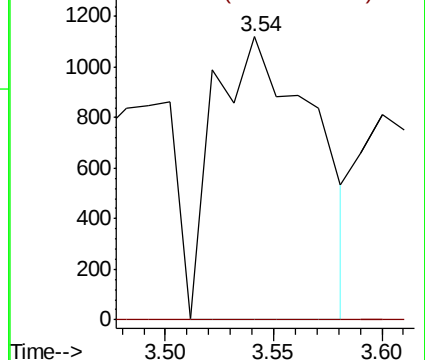
43 100

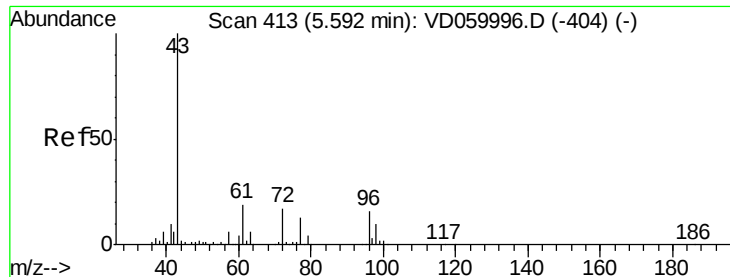
74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#25

2-Butanone

Concen: 33.14 ug/l

RT: 5.63 min Scan# 417

Delta R.T. 0.04 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

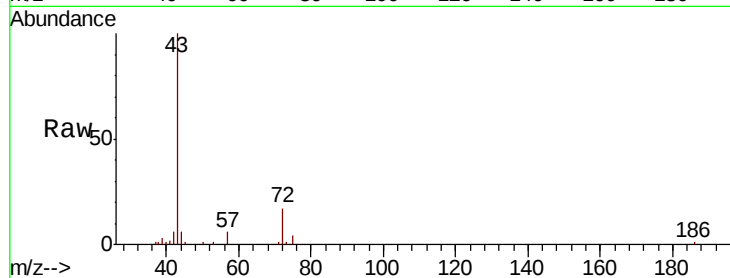
ClientSampleId :

Tot Ion: 43 Resp: 149042

Ion Ratio Lower Upper

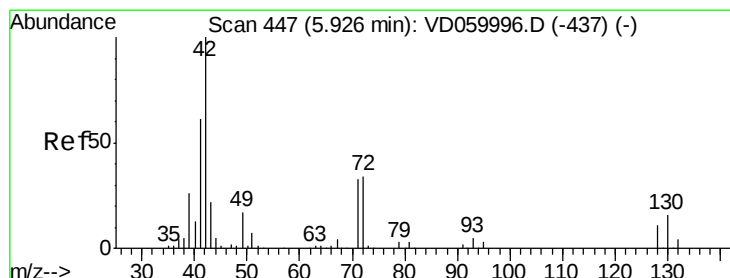
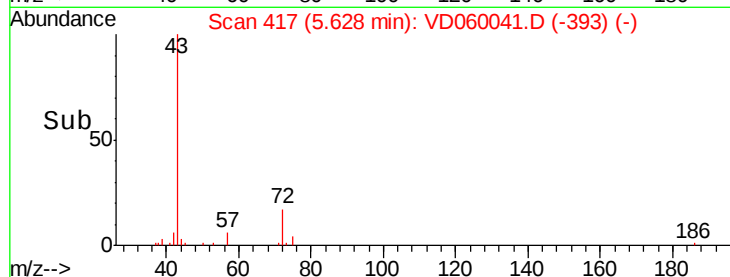
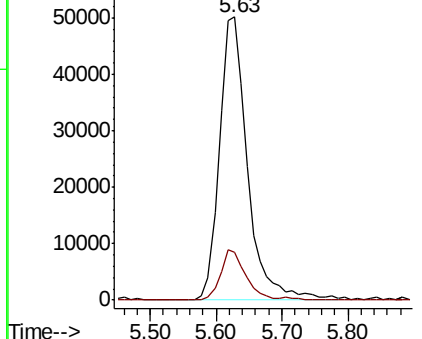
43 100

72 16.7 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 7.33 ug/l

RT: 5.96 min Scan# 451

Delta R.T. 0.04 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

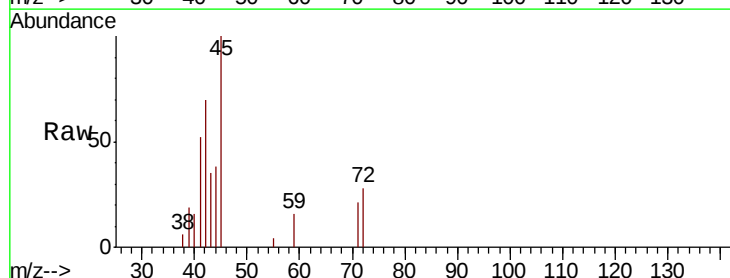
Tgt Ion: 42 Resp: 17670

Ion Ratio Lower Upper

42 100

72 32.3 26.9 40.3

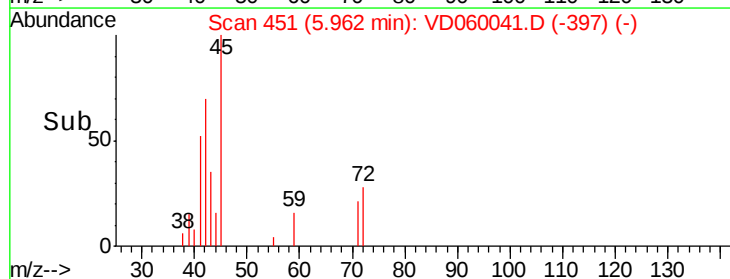
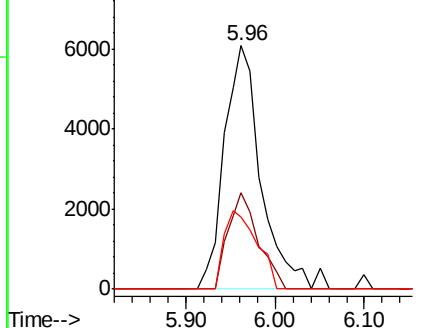
71 28.4 26.2 39.4

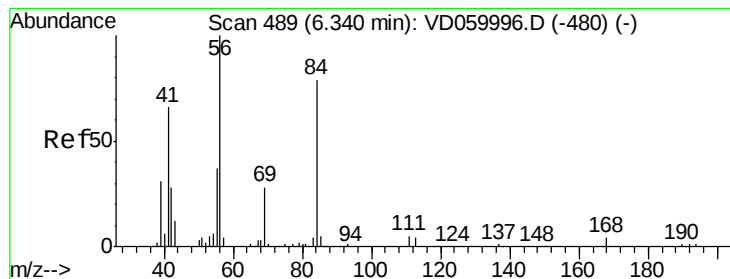


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.08 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.07 min

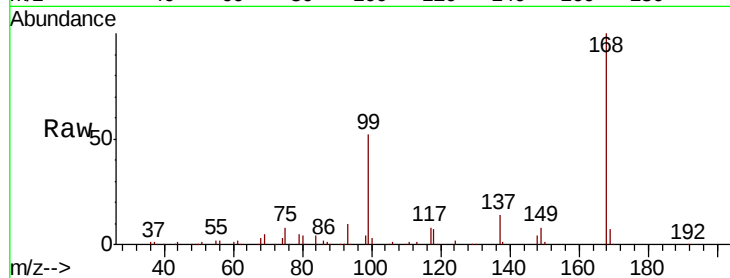
Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

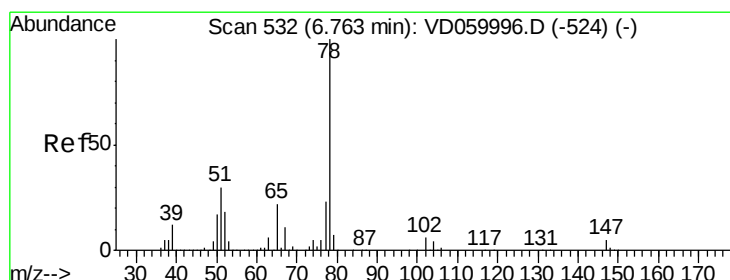
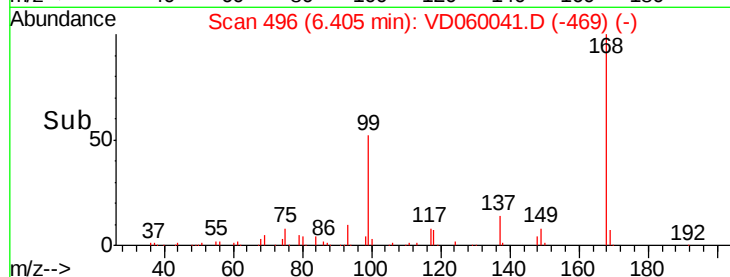
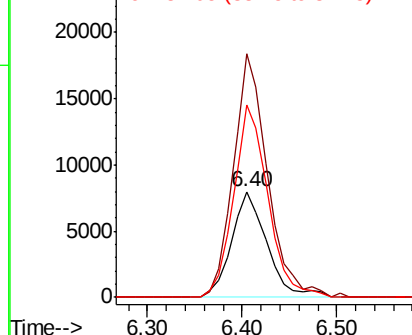
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 20743

Ion	Ratio	Lower	Upper
56	100		
69	230.3	22.7	34.1#
84	182.4	64.0	96.0#



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

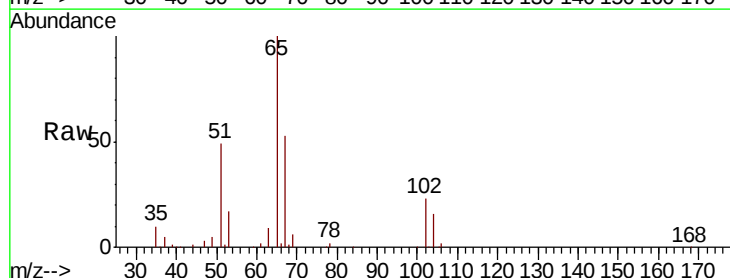
Delta R.T. 0.03 min

Lab File: VD060041.D

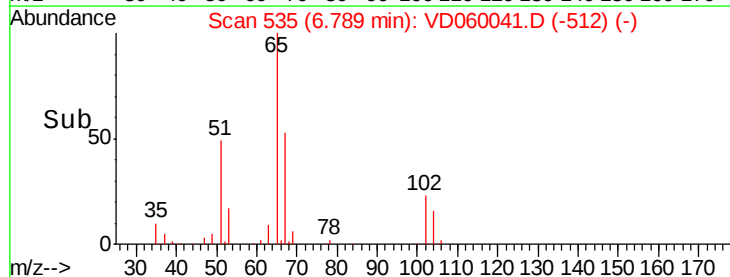
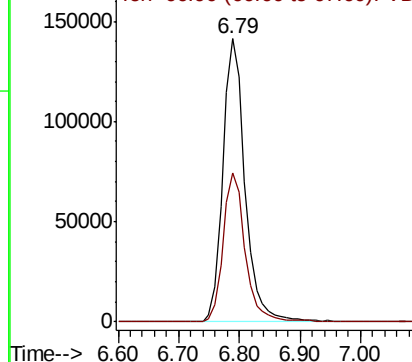
Acq: 19 Sep 2018 14:08

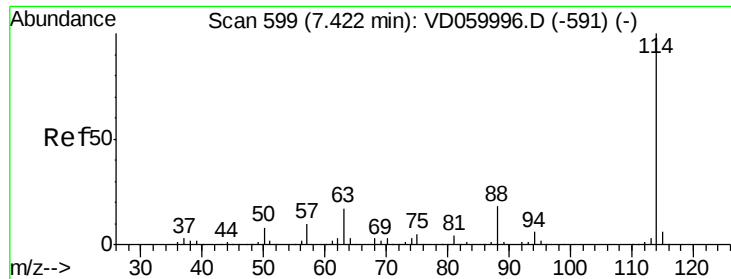
Tgt Ion: 65 Resp: 359630

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.8



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

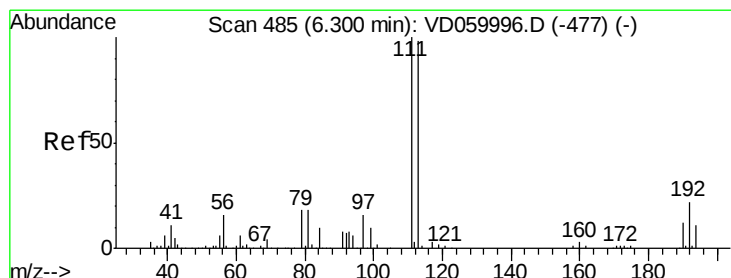
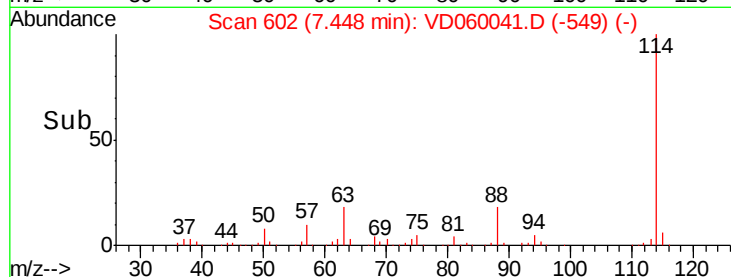
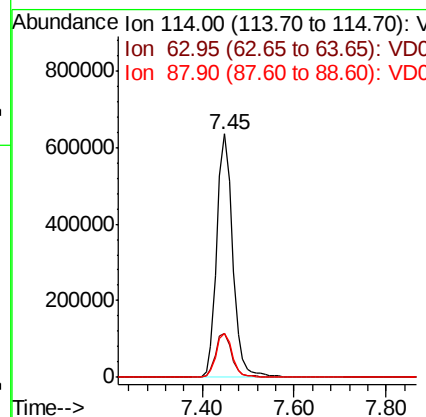
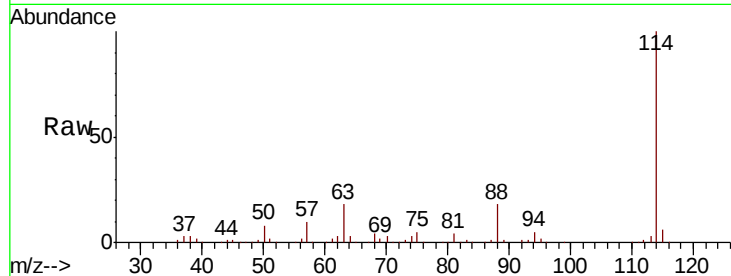




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. 0.03 min
 Lab File: VD060041.D
 Acq: 19 Sep 2018 14:08

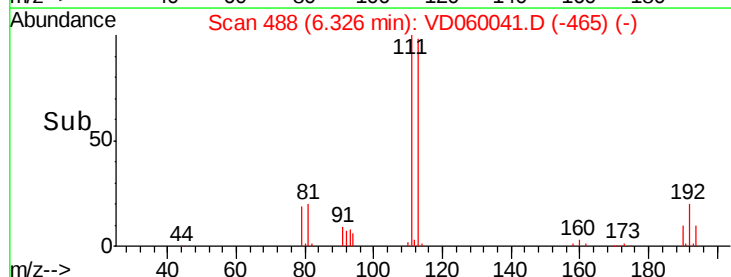
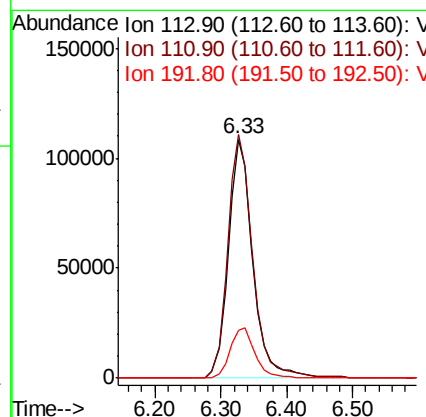
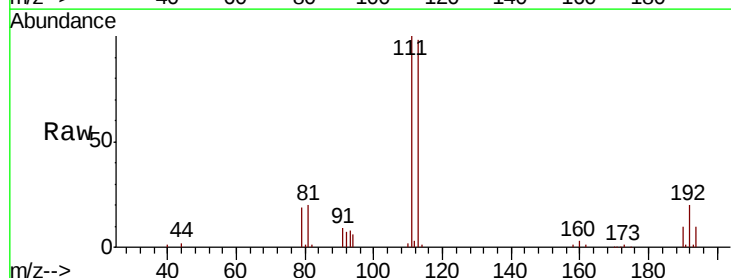
Instrument :
 MSVOA_D
 ClientSampleId :

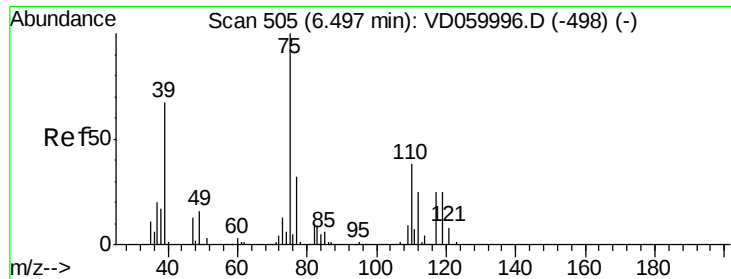
Tot Ion:114 Resp: 1518303
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.4
 88 18.2 0.0 35.8



#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. 0.03 min
 Lab File: VD060041.D
 Acq: 19 Sep 2018 14:08

Tgt Ion:113 Resp: 281972
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.3 121.9
 192 19.9 18.1 27.1





#36

1,1-Dichloropropene

Concen: 5.14 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.09 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

ClientSampleId :

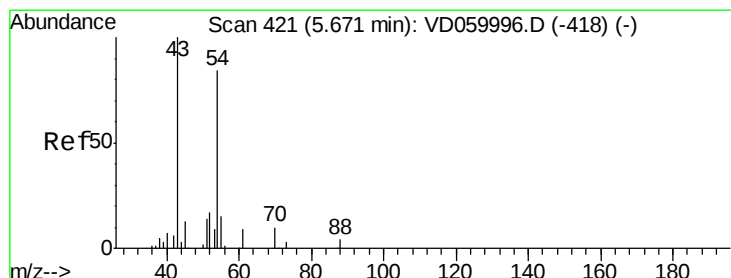
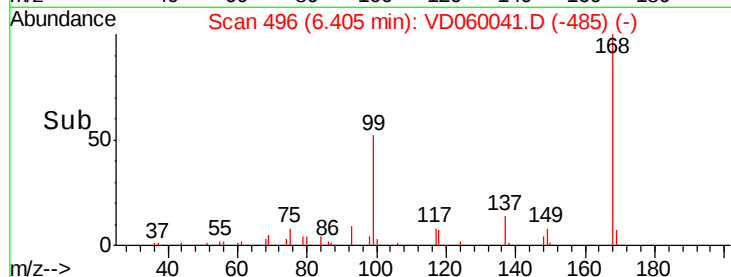
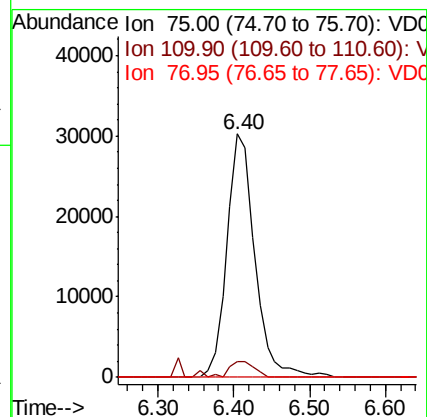
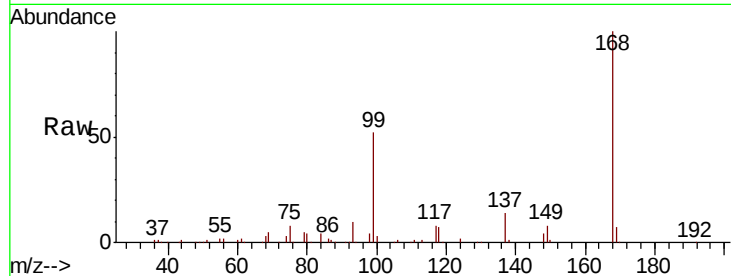
Tot Ion: 75 Resp: 77535

Ion Ratio Lower Upper

75 100

110 6.5 18.9 56.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 14.42 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.04 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

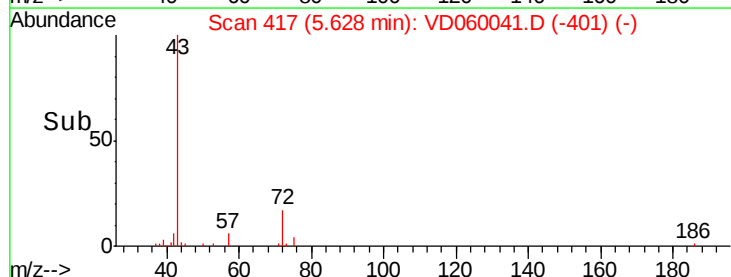
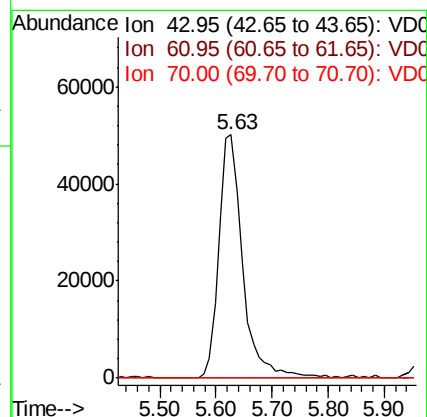
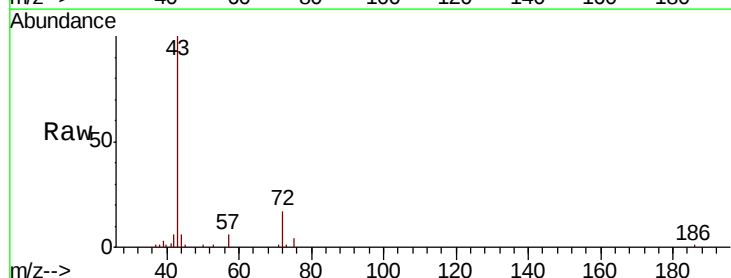
Tgt Ion: 43 Resp: 149581

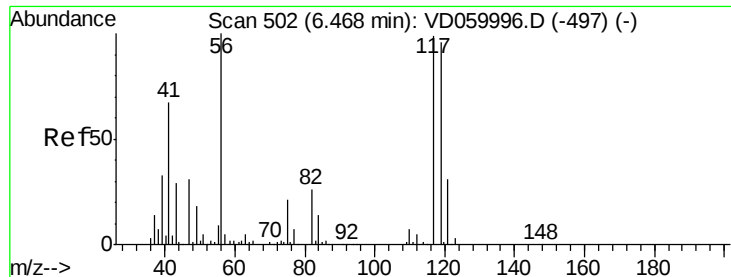
Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

70 0.0 6.1 9.1#





#38

Carbon Tetrachloride

Concen: 6.06 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.06 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

ClientSampled :

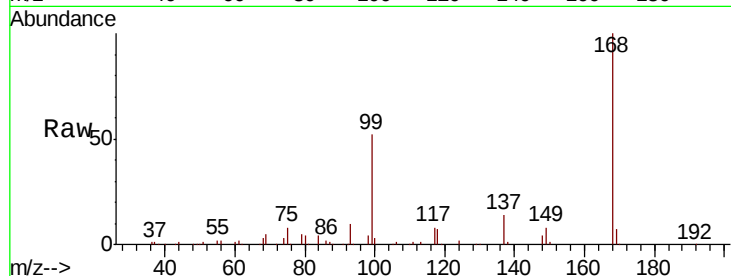
Tot Ion:117 Resp: 85250

Ion Ratio Lower Upper

117 100

119 3.8 76.7 115.1#

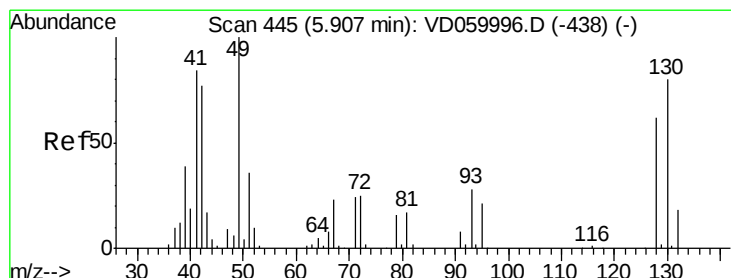
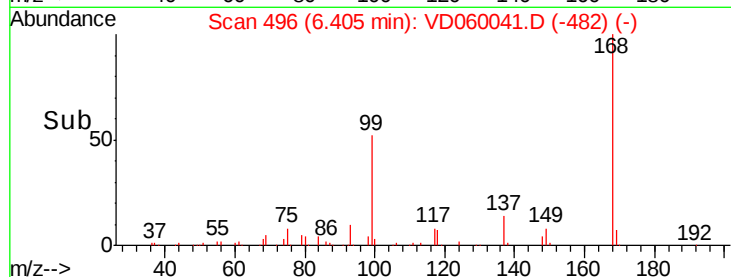
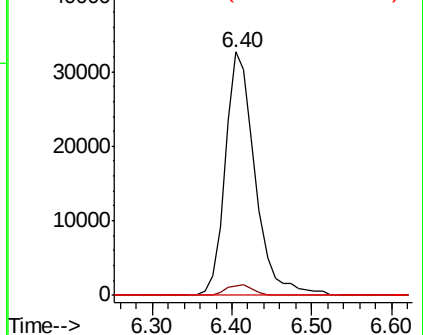
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 2.75 ug/l

RT: 5.97 min Scan# 452

Delta R.T. 0.07 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Tgt Ion: 41 Resp: 14952

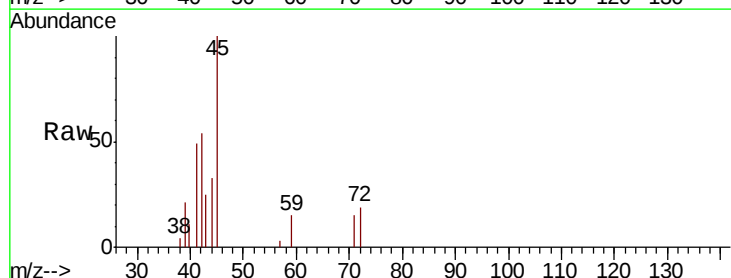
Ion Ratio Lower Upper

41 100

39 42.9 37.5 56.3

67 0.0 21.5 32.3#

52 0.0 9.2 13.8#

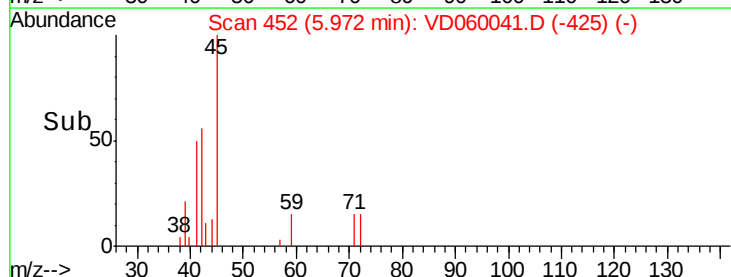
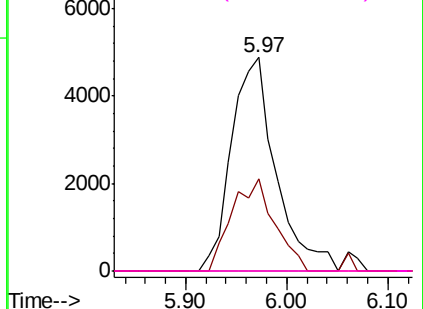


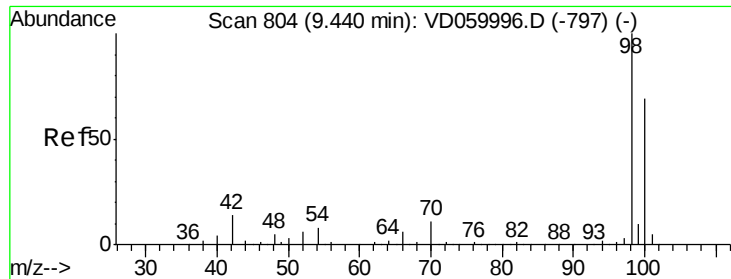
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

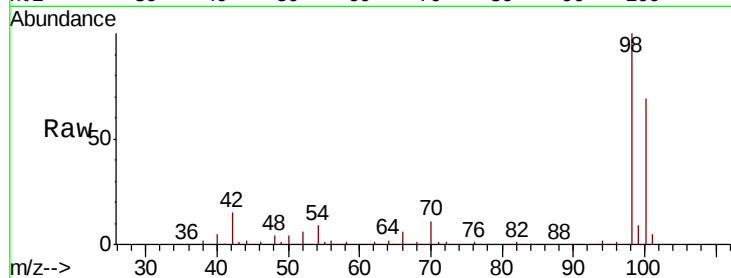




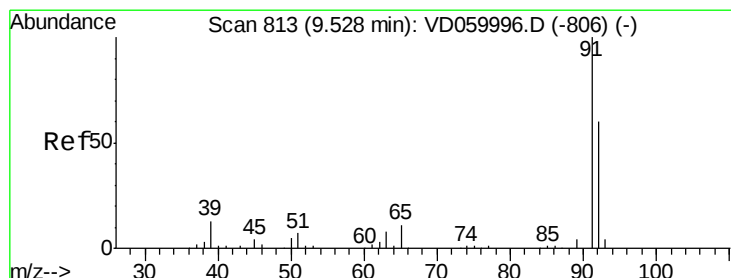
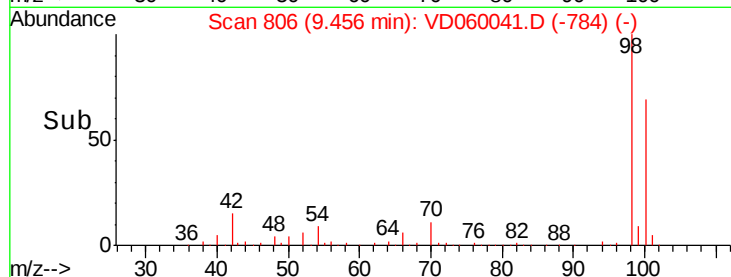
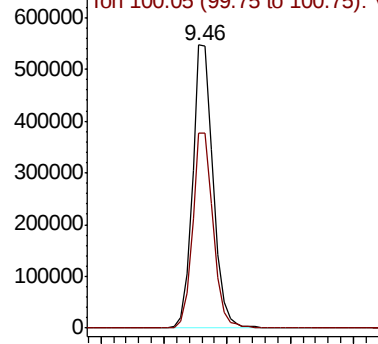
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 806
Delta R.T. 0.02 min
Lab File: VD060041.D
Acq: 19 Sep 2018 14:08

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 1247510
Ion Ratio Lower Upper
98 100
100 68.9 55.8 83.6

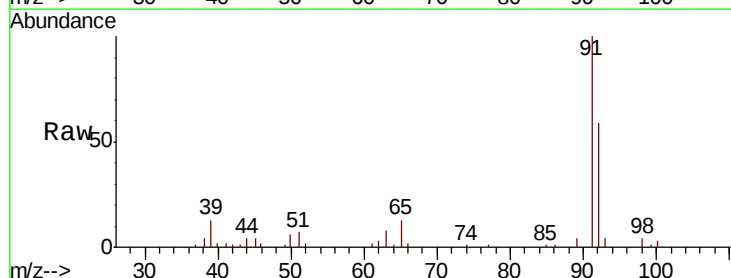


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

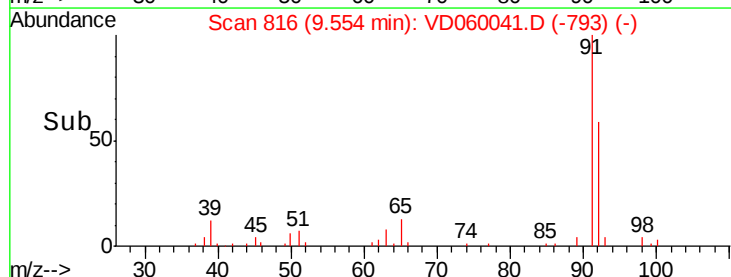
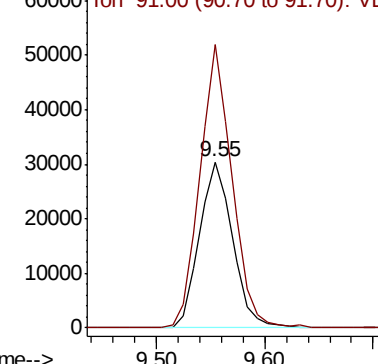


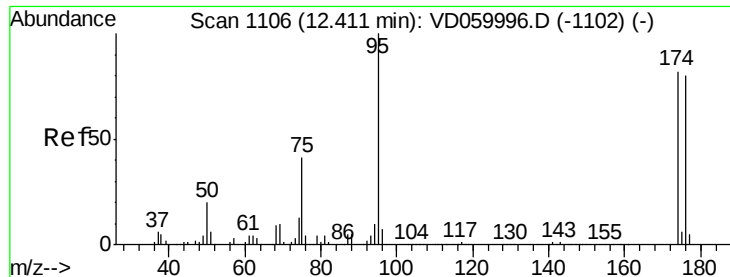
#52
Toluene
Concen: 2.63 ug/l
RT: 9.55 min Scan# 816
Delta R.T. 0.03 min
Lab File: VD060041.D
Acq: 19 Sep 2018 14:08

Tgt Ion: 92 Resp: 64782
Ion Ratio Lower Upper
92 100
91 170.3 132.3 198.5



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. 0.02 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

ClientSampled :

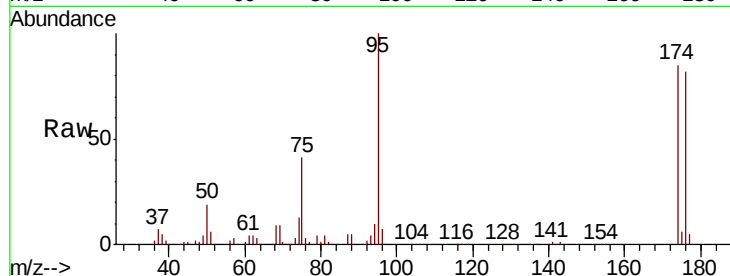
Tot Ion: 95 Resp: 432362

Ion Ratio Lower Upper

95 100

174 84.6 0.0 165.0

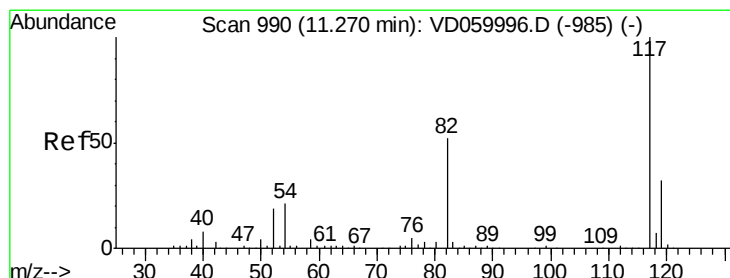
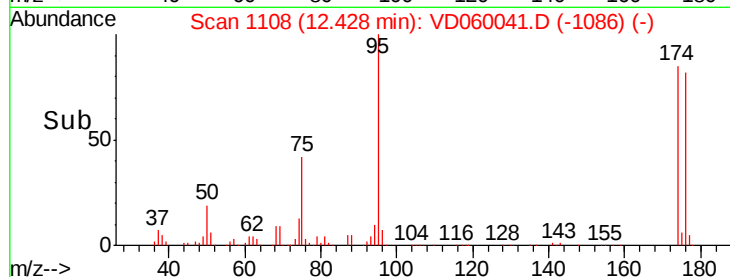
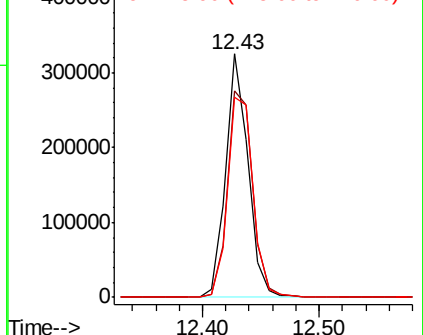
176 82.4 0.0 160.2



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: 50.00 ug/l

RT: 11.29 min Scan# 992

Delta R.T. 0.02 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

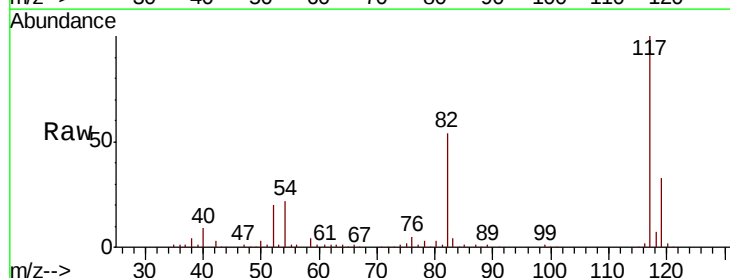
Tgt Ion: 117 Resp: 1178271

Ion Ratio Lower Upper

117 100

82 54.3 41.7 62.5

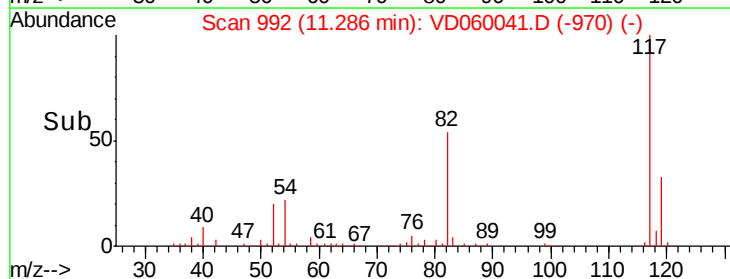
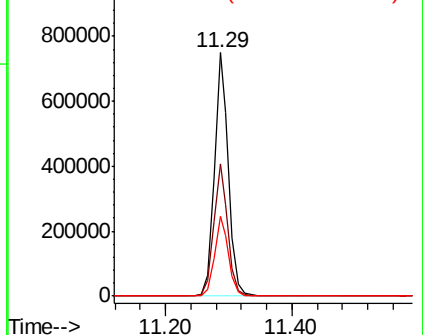
119 32.9 26.0 39.0

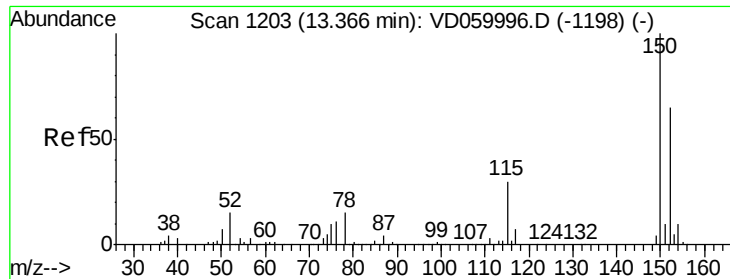


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

ClientSampleId :

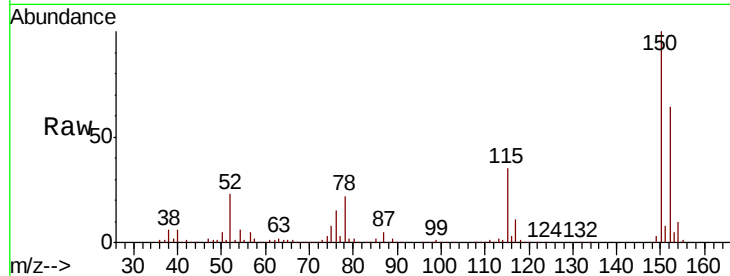
Tot Ion:152 Resp: 518640

Ion Ratio Lower Upper

152 100

115 55.7 24.6 73.8

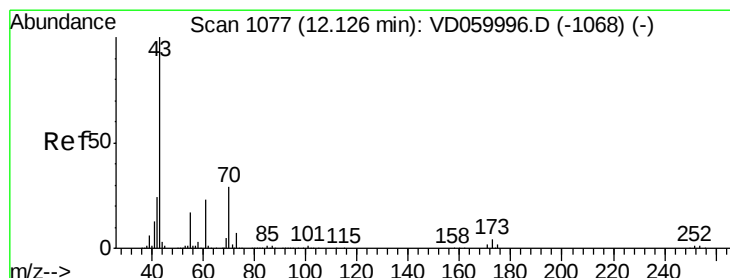
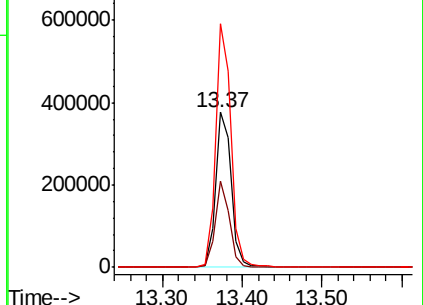
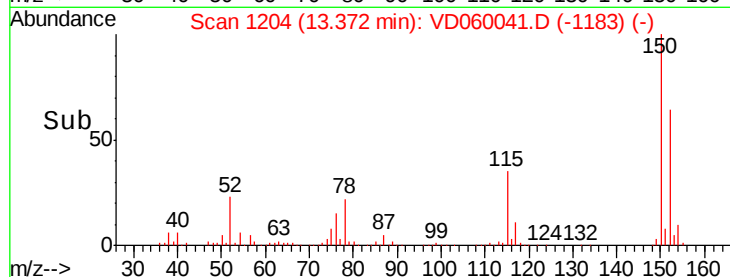
150 157.1 0.0 313.4



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



#74

N-ethyl acetate

Concen: 1.25 ug/l

RT: 12.07 min Scan# 1072

Delta R.T. -0.05 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Tgt Ion: 43 Resp: 16898

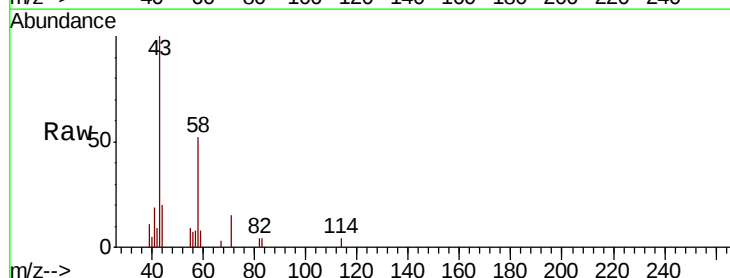
Ion Ratio Lower Upper

43 100

70 0.0 22.9 34.3#

55 9.3 14.0 21.0#

61 0.0 18.7 28.1#

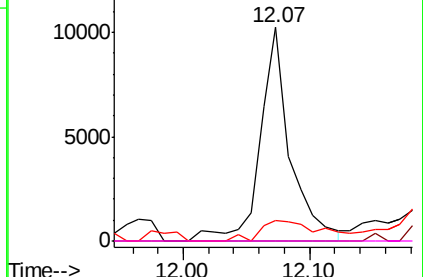
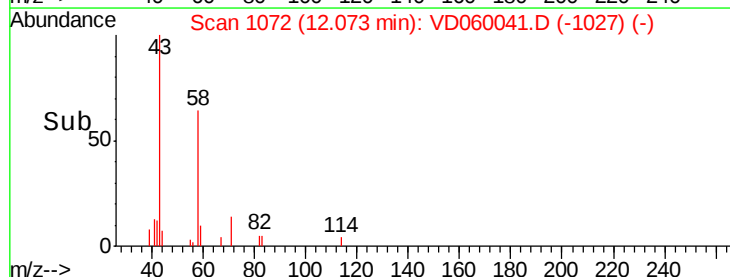


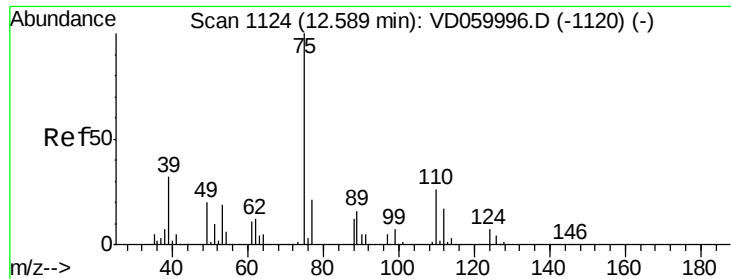
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 22.23 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

Instrument :

MSVOA_D

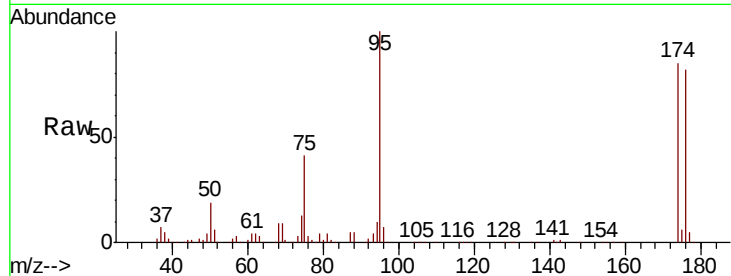
ClientSampleId :

Tot Ion: 75 Resp: 176068

Ion Ratio Lower Upper

75 100

77 1.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

12.43

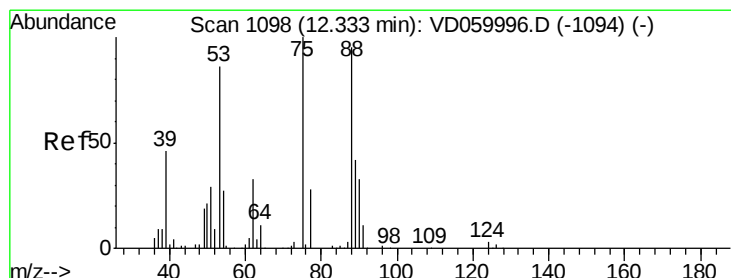
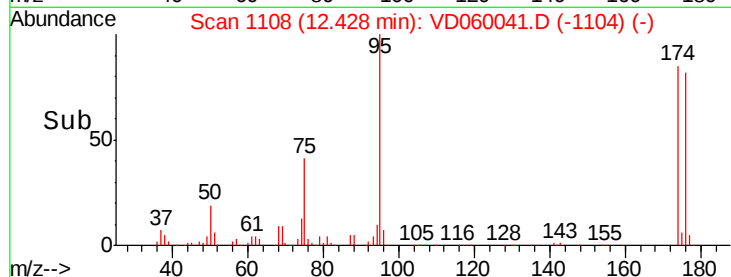
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 74.81 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060041.D

Acq: 19 Sep 2018 14:08

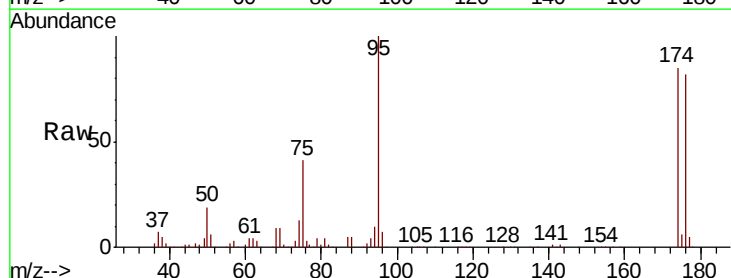
Tgt Ion: 75 Resp: 178871

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



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

12.43

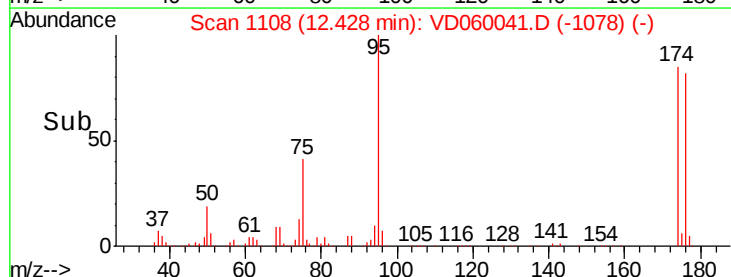
150000

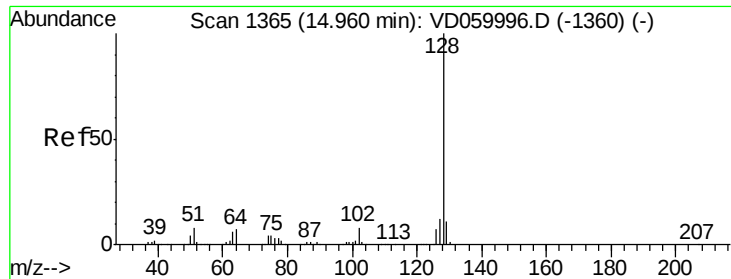
100000

50000

0

Time-->





#95
Naphthalene
Concen: 8.38 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VD060041.D
Acq: 19 Sep 2018 14:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.7	14.5
129	10.5	8.9	13.3

