

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090518\
 Data File : VD059964.D
 Acq On : 5 Sep 2018 12:48
 Operator : JC/SY
 Sample : J4739-01
 Misc : 6.46g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-02-A

Quant Time: Sep 05 14:48:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	155088	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.42	114	248709	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	245482	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	142357	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	140349	107.37	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	214.74%	
35) Dibromofluoromethane	6.30	113	120815	61.96	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	123.92%	
50) Toluene-d8	9.44	98	306035	56.55	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.10%	
62) 4-Bromofluorobenzene	12.42	95	139710	63.56	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	127.12%	

Target Compounds

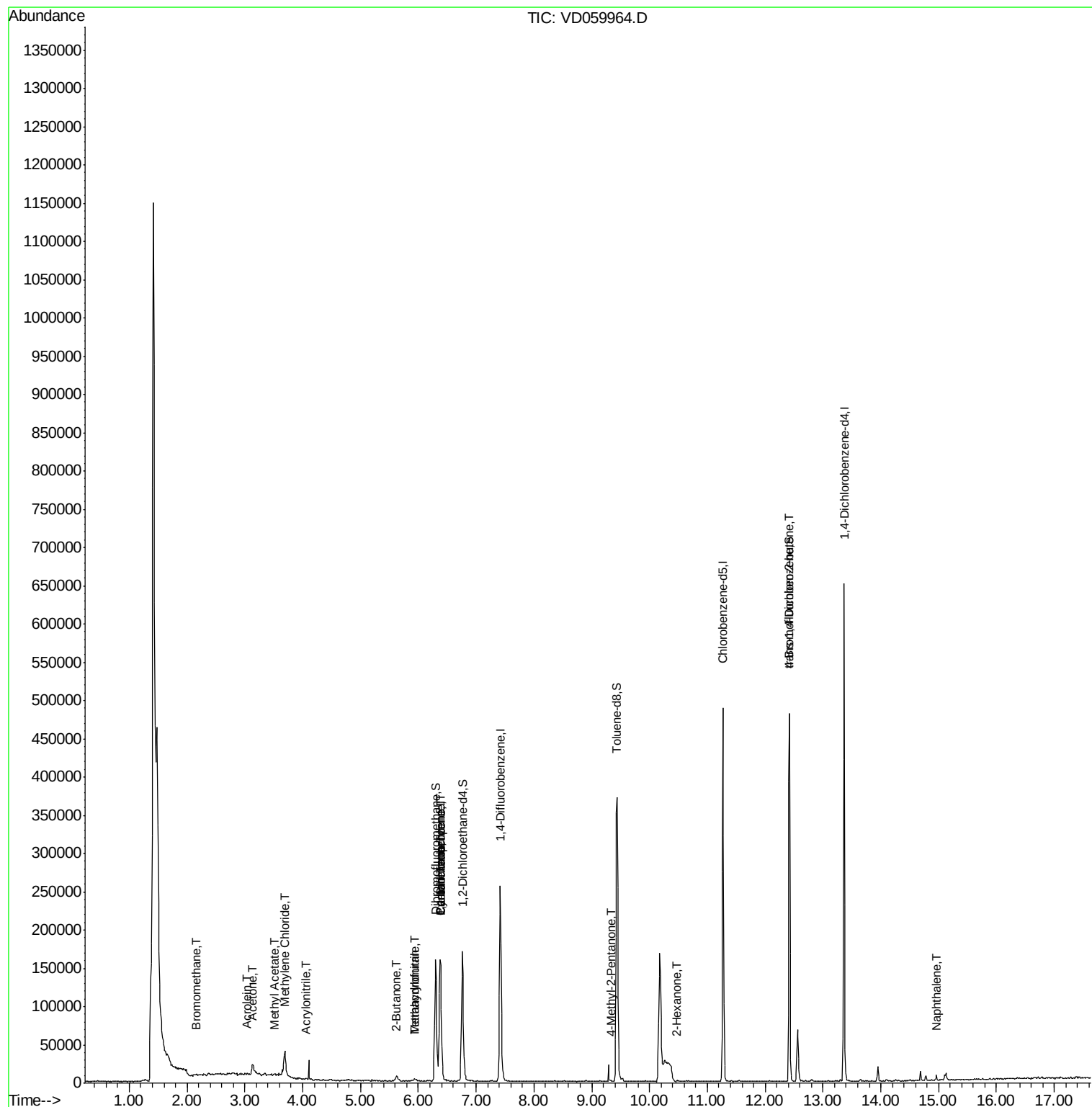
						Qvalue
5) Bromomethane	2.17	94	236	1.39	ug/l #	1
13) Acrolein	3.05	56	181	4.18	ug/l #	2
15) Acrylonitrile	4.05	53	758	2.03	ug/l #	17
16) Acetone	3.14	43	26874	112.85	ug/l	95
18) Methyl Acetate	3.52	43	1140	2.29	ug/l #	66
20) Methylene Chloride	3.69	84	18066	8.26	ug/l	92
25) 2-Butanone	5.61	43	7401	10.49	ug/l #	63
29) Tetrahydrofuran	5.94	42	3079	9.17	ug/l #	43
31) Cyclohexane	6.38	56	2892	1.16	ug/l #	1
36) 1,1-Dichloropropene	6.38	75	10781	4.78	ug/l #	40
38) Carbon Tetrachloride	6.39	117	11922	5.24	ug/l #	12
41) Methacrylonitrile	5.94	41	2036	2.30	ug/l #	78
51) 4-Methyl-2-Pentanone	9.33	43	2553	1.50	ug/l #	41
59) 2-Hexanone	10.47	43	1774	1.41	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.41	75	59471	86.41	ug/l #	12
89) n-Butylbenzene	13.64	91	971	Below Cal	#	58
95) Naphthalene	14.96	128	5255	1.05	ug/l #	95

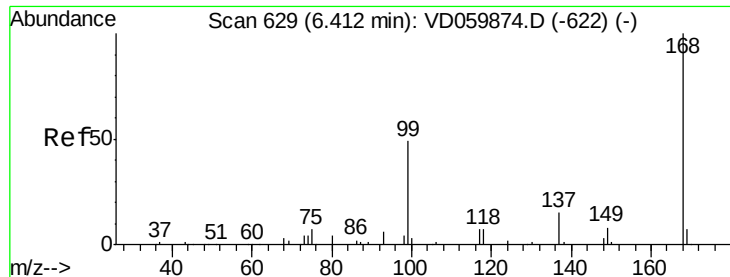
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.03 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

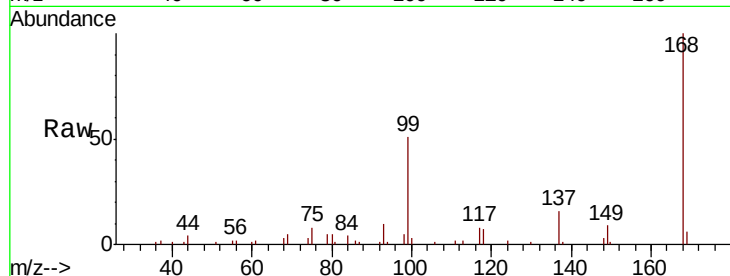
AOC2-02-A

Tot Ion:168 Resp: 155088

Ion Ratio Lower Upper

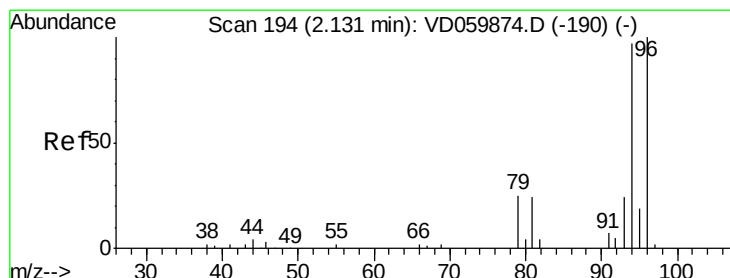
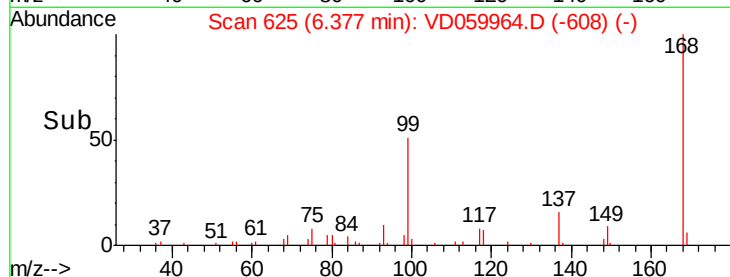
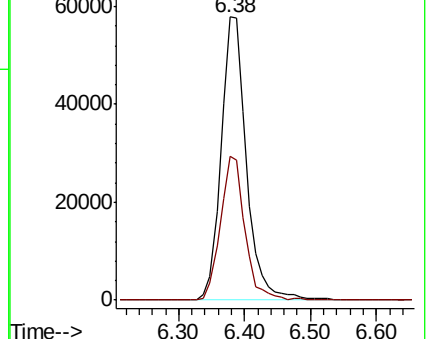
168 100

99 50.7 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.39 ug/l

RT: 2.17 min Scan# 197

Delta R.T. 0.03 min

Lab File: VD059964.D

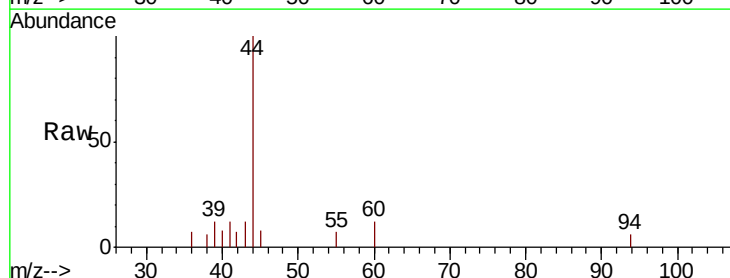
Acq: 5 Sep 2018 12:48

Tgt Ion: 94 Resp: 236

Ion Ratio Lower Upper

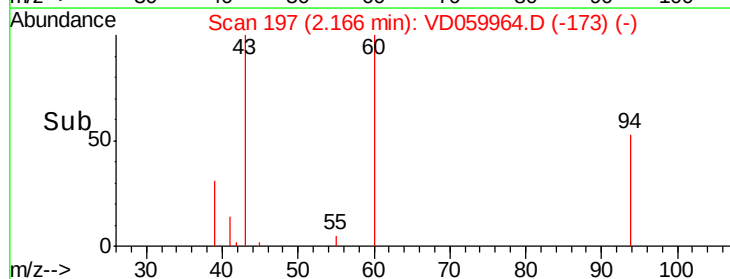
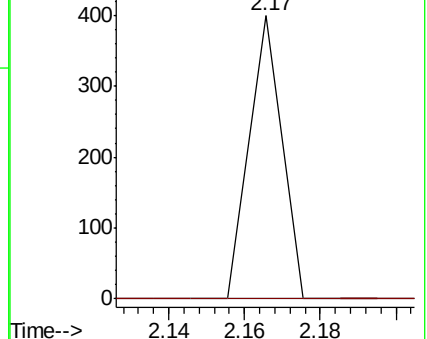
94 100

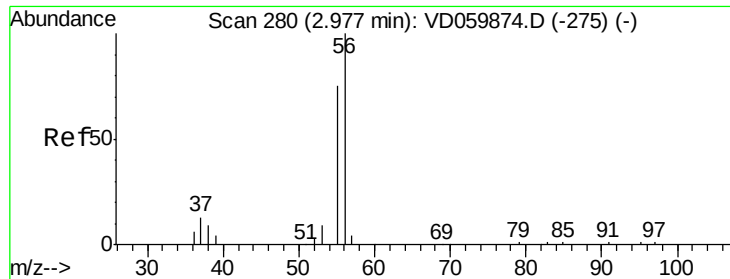
96 0.0 82.4 123.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: 4.18 ug/l

RT: 3.05 min Scan# 287

Delta R.T. 0.07 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

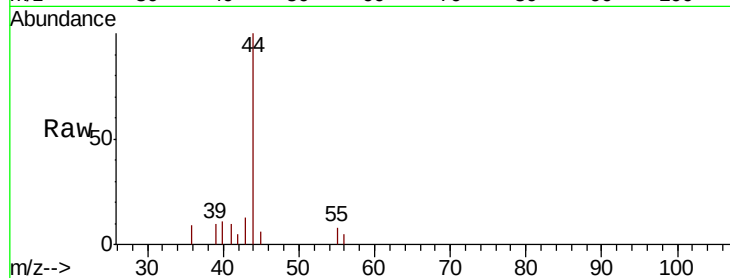
AOC2-02-A

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

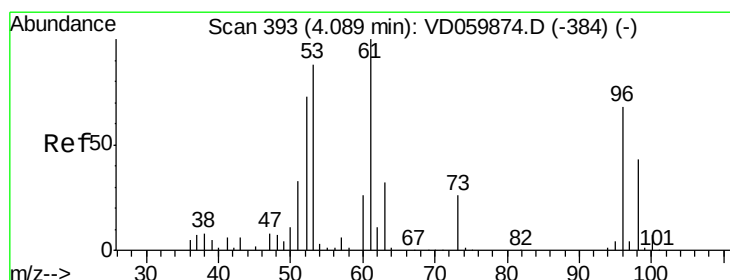
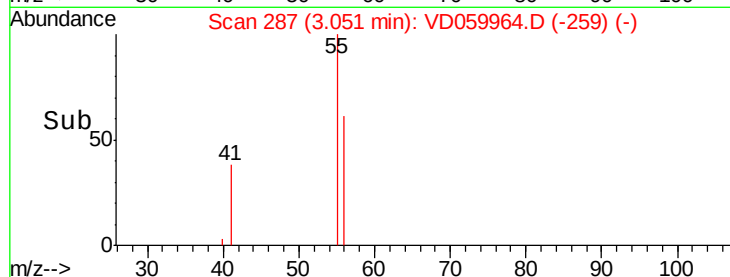
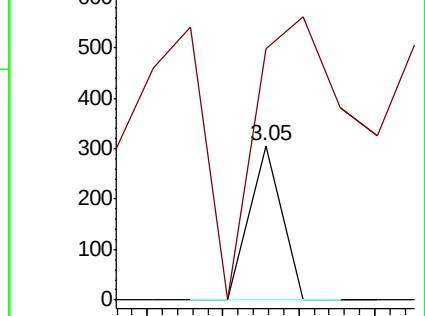
56 100

55 162.7 61.9 92.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 2.03 ug/l

RT: 4.05 min Scan# 389

Delta R.T. -0.03 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

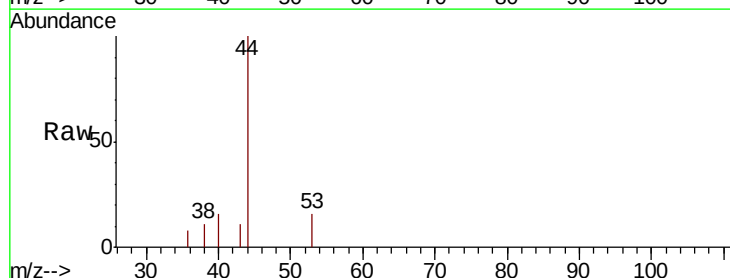
Tgt Ion: 53 Resp: 758

Ion Ratio Lower Upper

53 100

52 0.0 66.9 100.3#

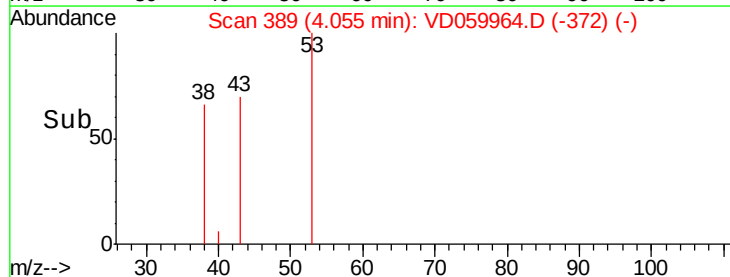
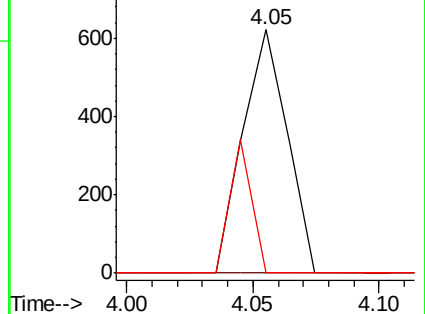
51 0.0 30.3 45.5#

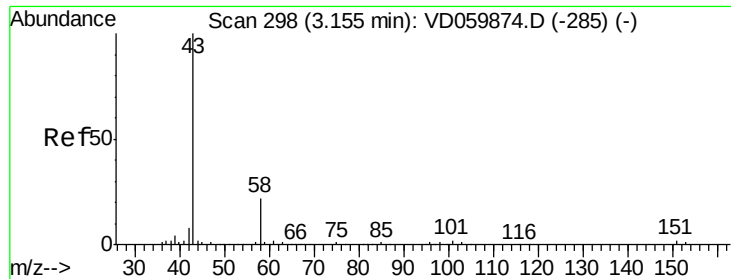


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 112.85 ug/l

RT: 3.14 min Scan# 296

Delta R.T. -0.01 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

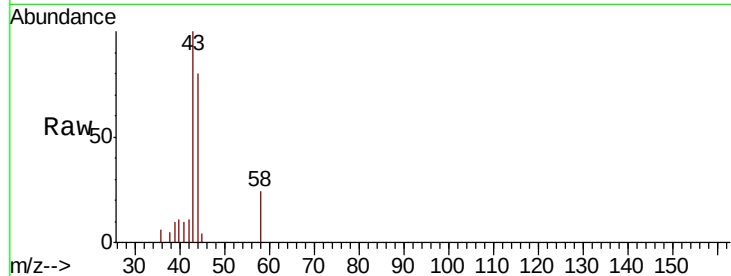
AOC2-02-A

Tot Ion: 43 Resp: 26874

Ion Ratio Lower Upper

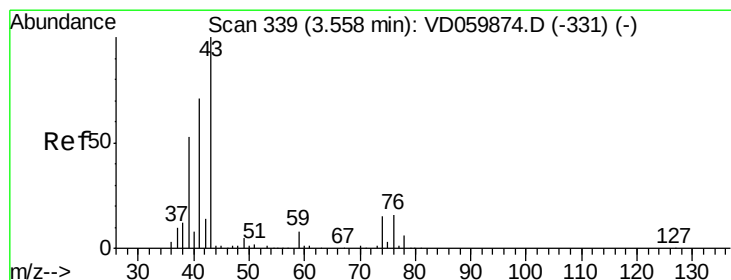
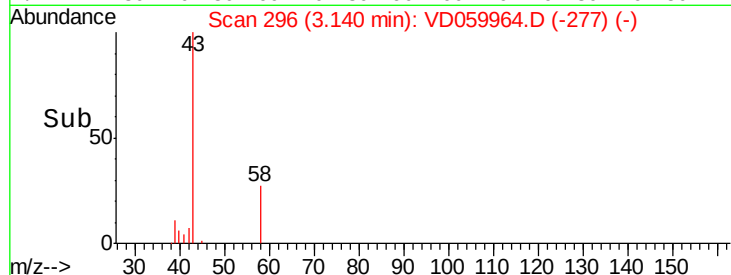
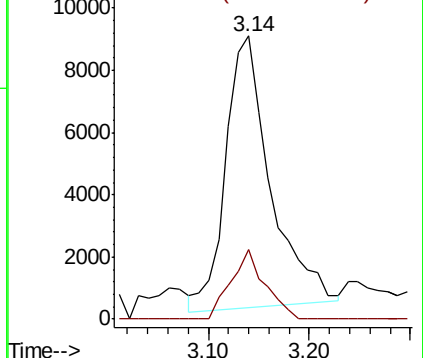
43 100

58 24.5 17.6 26.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.29 ug/l

RT: 3.52 min Scan# 335

Delta R.T. -0.03 min

Lab File: VD059964.D

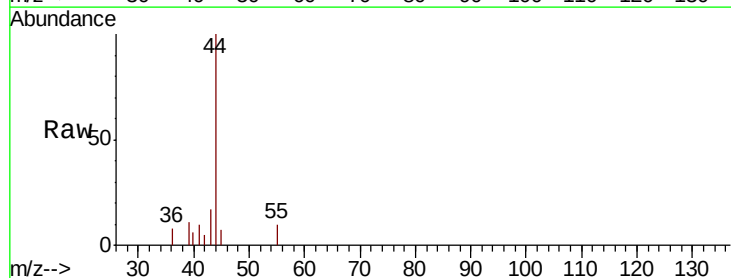
Acq: 5 Sep 2018 12:48

Tgt Ion: 43 Resp: 1140

Ion Ratio Lower Upper

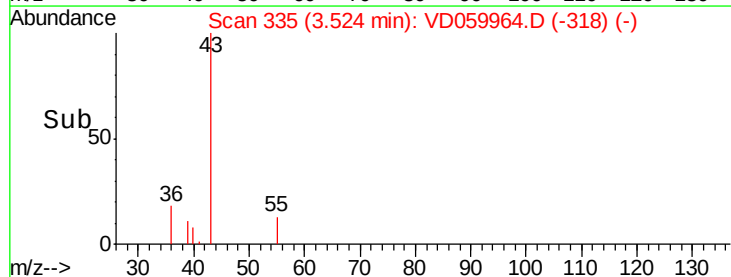
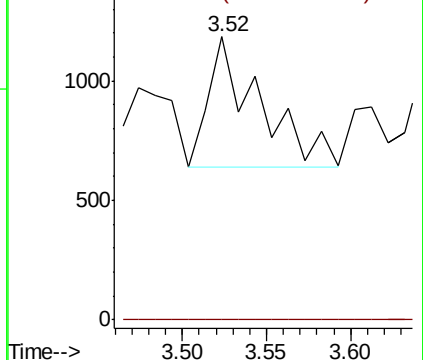
43 100

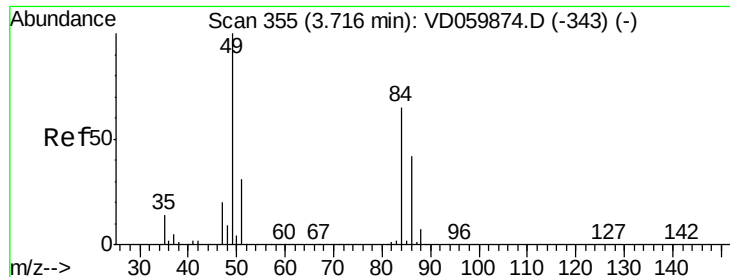
74 0.0 11.2 16.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

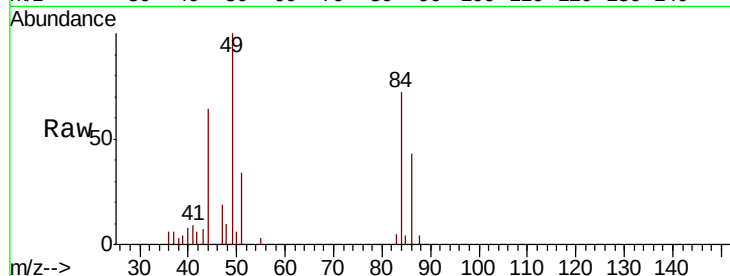




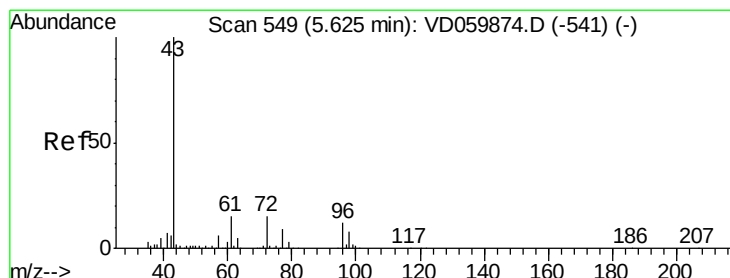
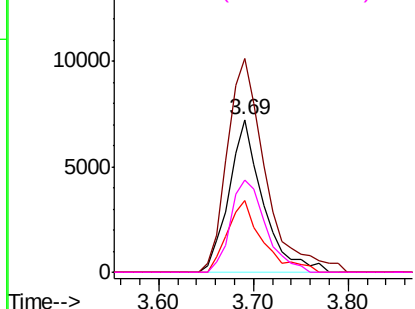
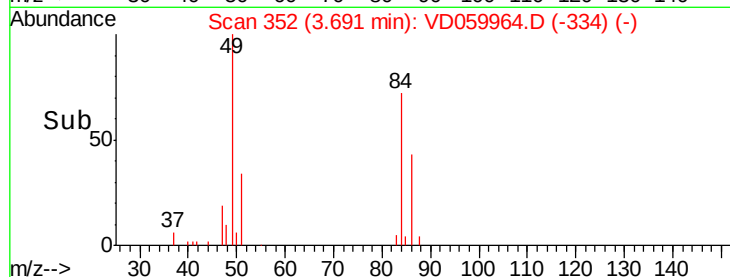
#20
Methylene Chloride
Concen: 8.26 ug/l
RT: 3.69 min Scan# 352
Delta R.T. -0.02 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
AOC2-02-A

Tot Ion: 84 Resp: 18066
Ion Ratio Lower Upper
84 100
49 139.7 122.6 183.8
51 47.0 38.4 57.6
86 60.3 51.5 77.3

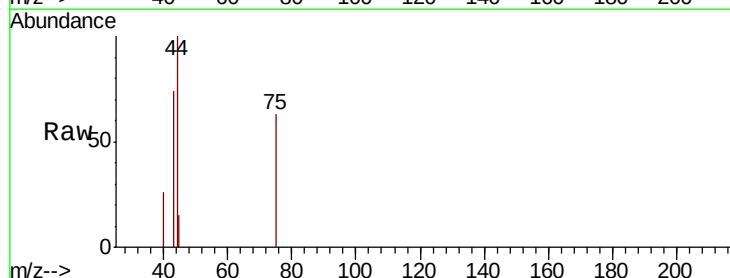


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

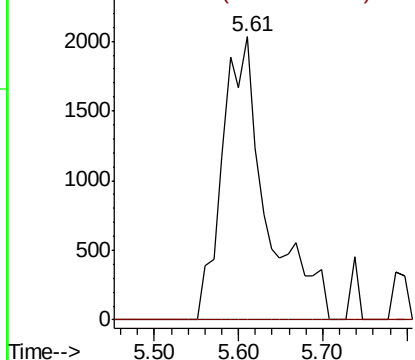
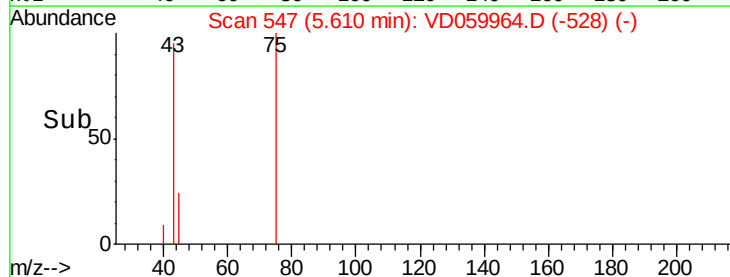


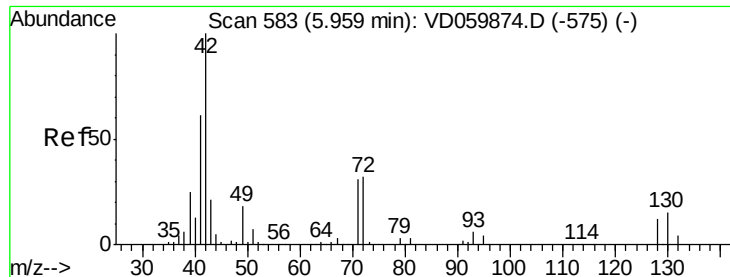
#25
2-Butanone
Concen: 10.49 ug/l
RT: 5.61 min Scan# 547
Delta R.T. -0.01 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Tgt Ion: 43 Resp: 7401
Ion Ratio Lower Upper
43 100
72 0.0 12.3 18.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 9.17 ug/l

RT: 5.94 min Scan# 581

Delta R.T. -0.01 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

AOC2-02-A

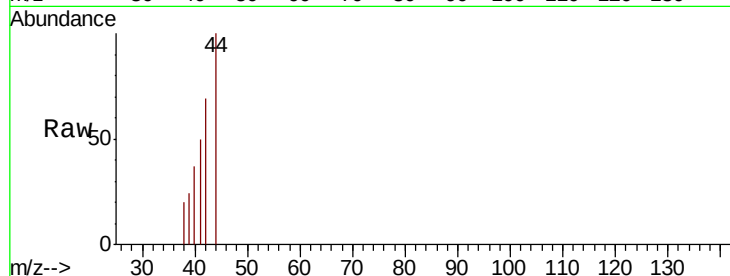
Tot Ion: 42 Resp: 3079

Ion Ratio Lower Upper

42 100

72 0.0 25.7 38.5#

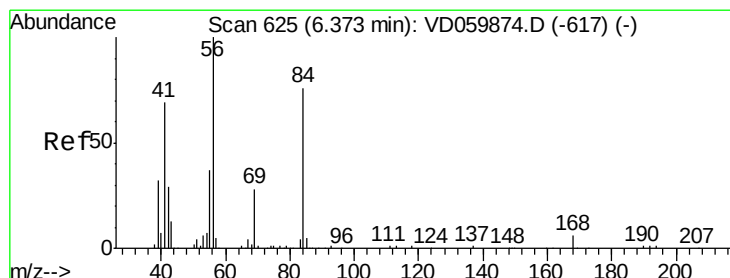
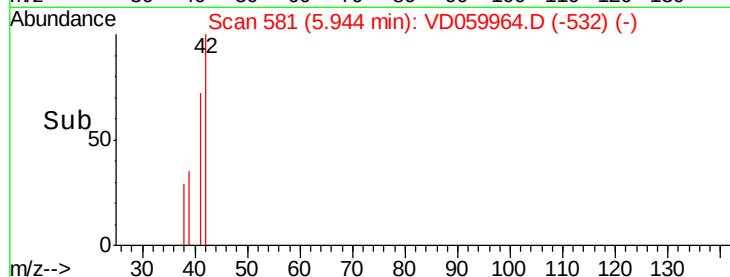
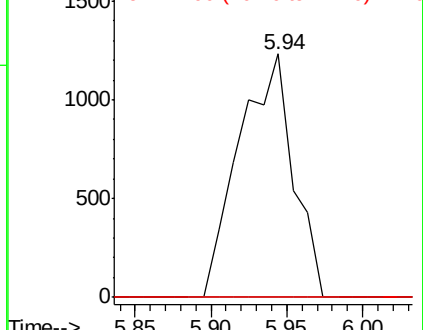
71 0.0 25.3 37.9#



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: 1.16 ug/l

RT: 6.38 min Scan# 625

Delta R.T. 0.00 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

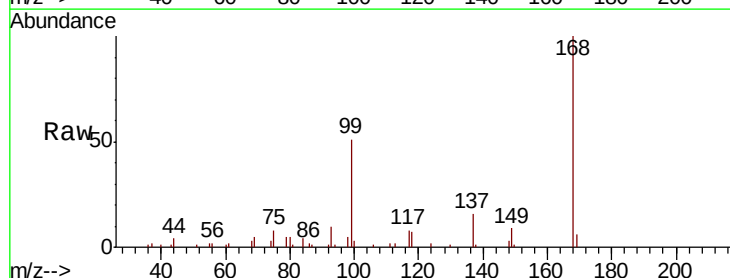
Tgt Ion: 56 Resp: 2892

Ion Ratio Lower Upper

56 100

69 218.4 22.4 33.6#

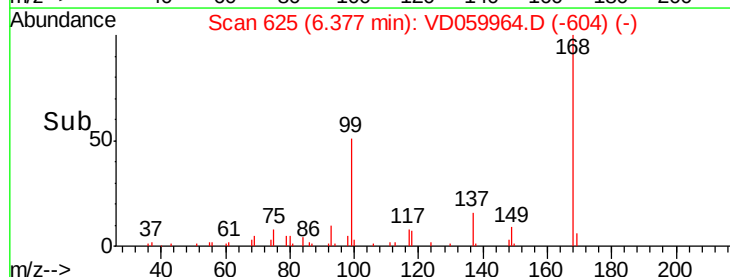
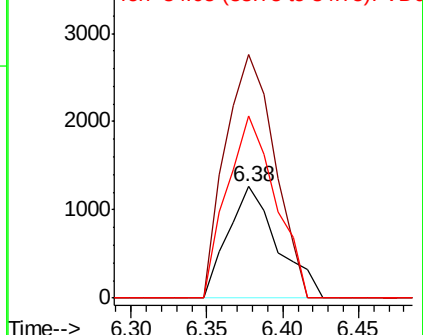
84 163.4 62.1 93.1#

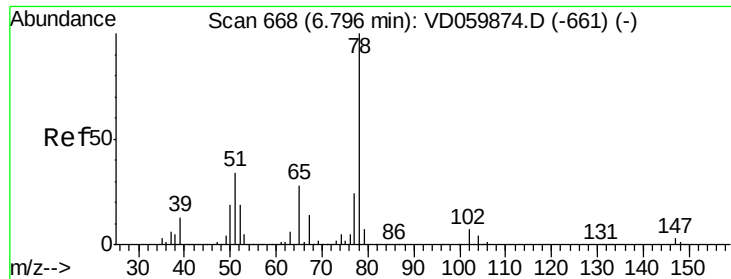


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

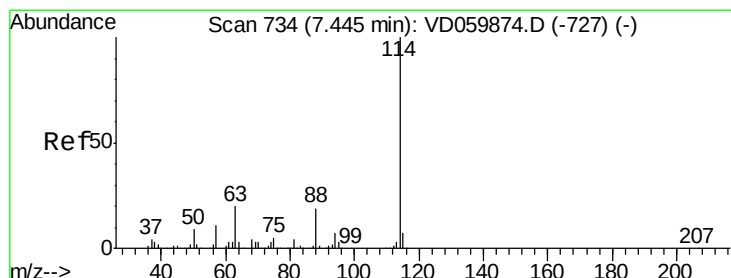
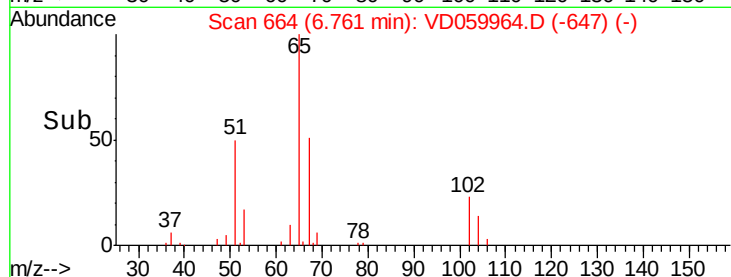
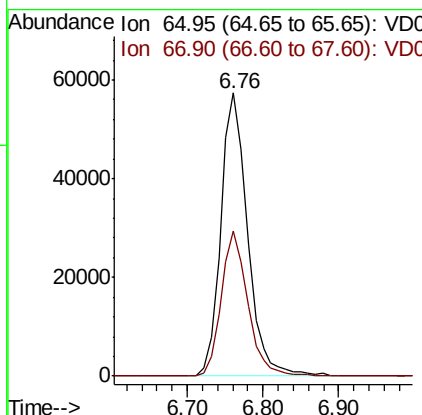
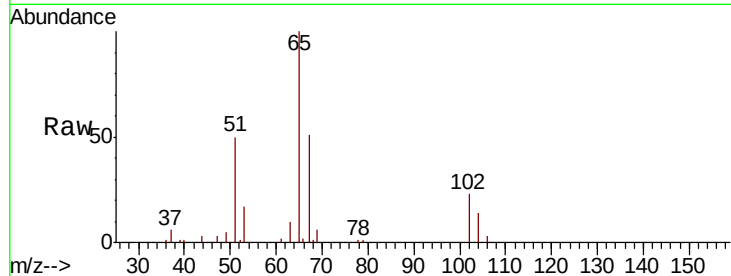




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.76 min Scan# 664
 Delta R.T. -0.03 min
 Lab File: VD059964.D
 Acq: 5 Sep 2018 12:48

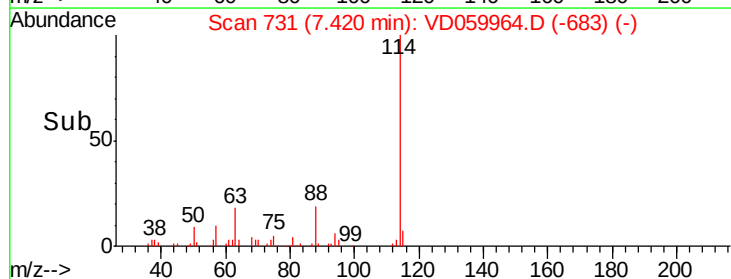
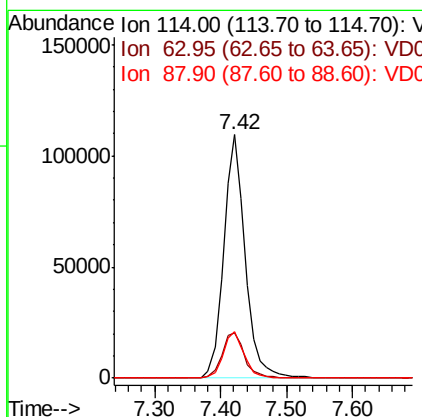
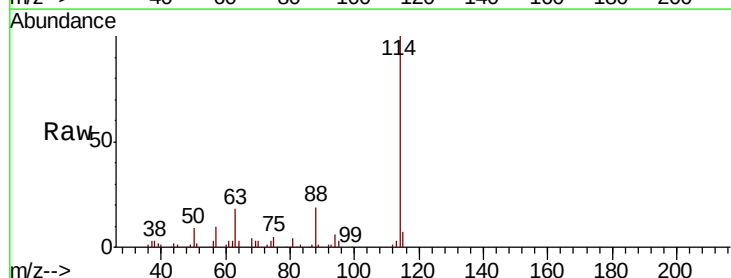
Instrument :
 MSVOA_D
 ClientSampleId :
 AOC2-02-A

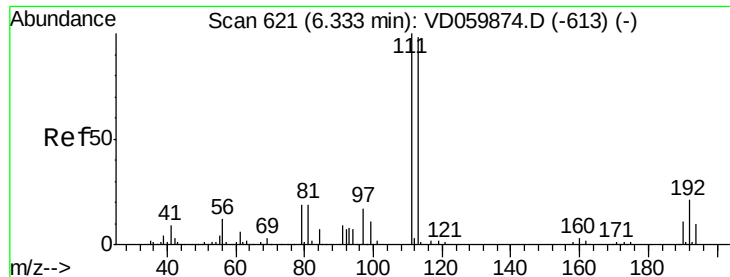
Tot Ion: 65 Resp: 140349
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 731
 Delta R.T. -0.02 min
 Lab File: VD059964.D
 Acq: 5 Sep 2018 12:48

Tgt Ion: 114 Resp: 248709
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 39.4
 88 19.0 0.0 37.6





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 6.30 min Scan# 617

Delta R.T. -0.03 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

AOC2-02-A

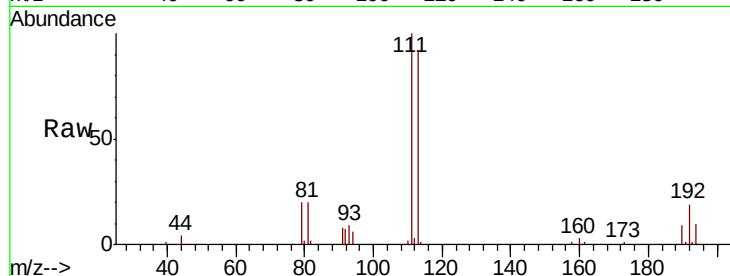
Tot Ion:113 Resp: 120815

Ion Ratio Lower Upper

113 100

111 108.2 81.4 122.2

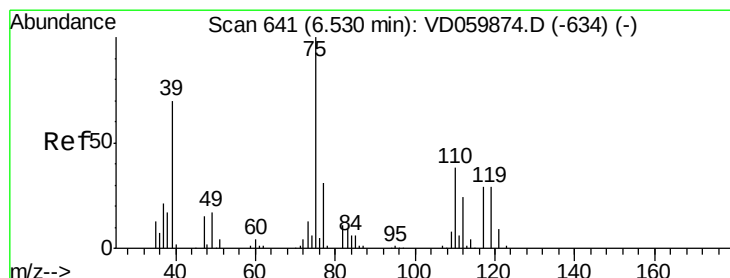
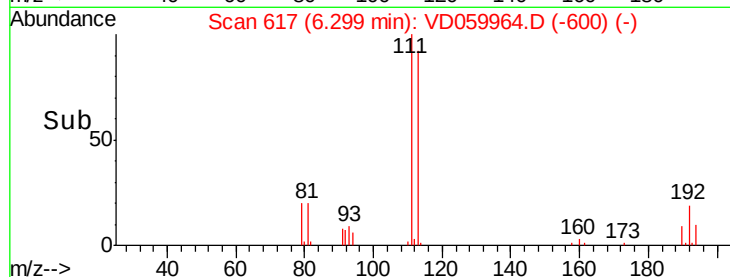
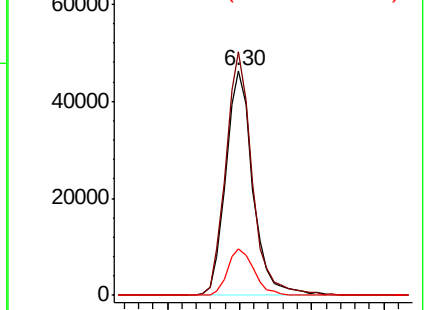
192 20.6 17.0 25.6



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: 4.78 ug/l

RT: 6.38 min Scan# 625

Delta R.T. -0.15 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

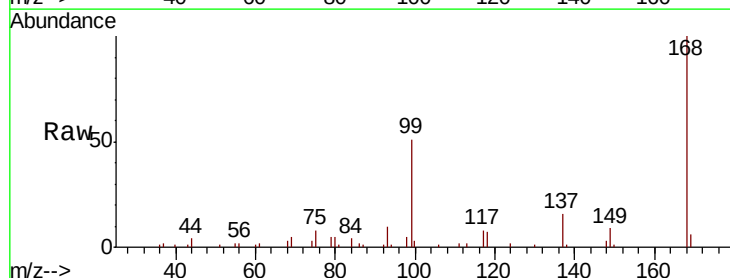
Tgt Ion: 75 Resp: 10781

Ion Ratio Lower Upper

75 100

110 0.0 18.6 56.0#

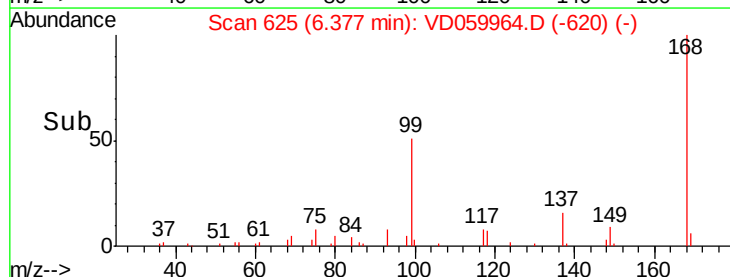
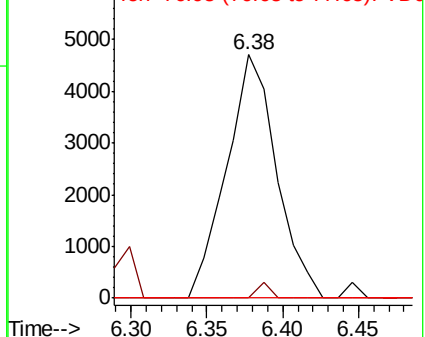
77 0.0 25.1 37.7#

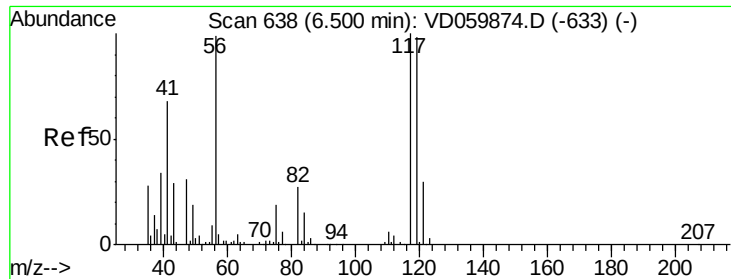


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.24 ug/l

RT: 6.39 min Scan# 626

Delta R.T. -0.11 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

AOC2-02-A

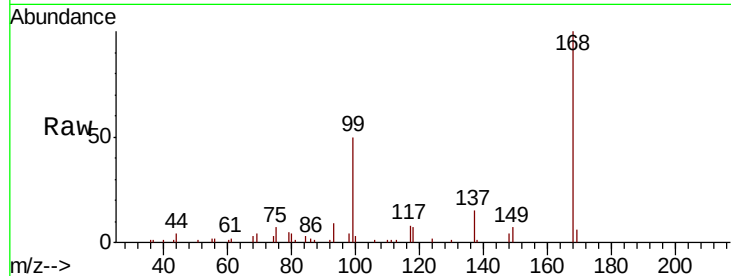
Tot Ion:117 Resp: 11922

Ion Ratio Lower Upper

117 100

119 0.0 77.2 115.8#

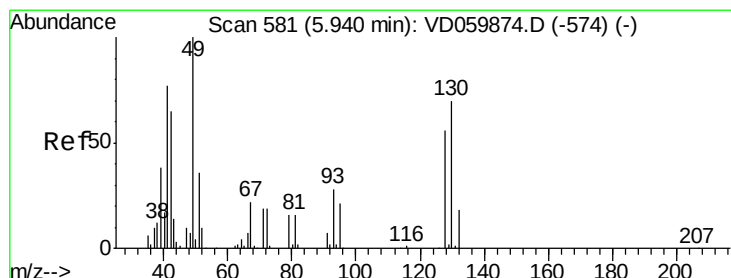
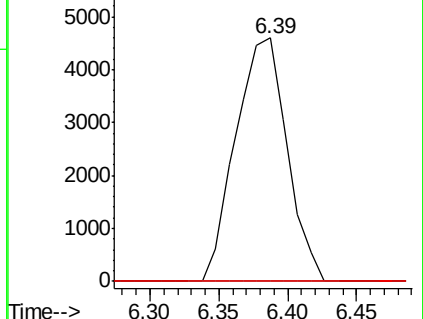
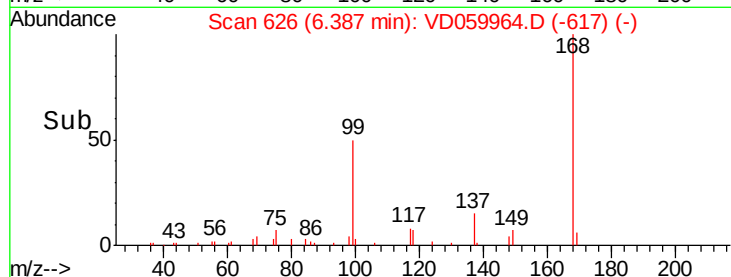
121 0.0 24.0 36.0#



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: 2.30 ug/l

RT: 5.94 min Scan# 581

Delta R.T. 0.00 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Tgt Ion: 41 Resp: 2036

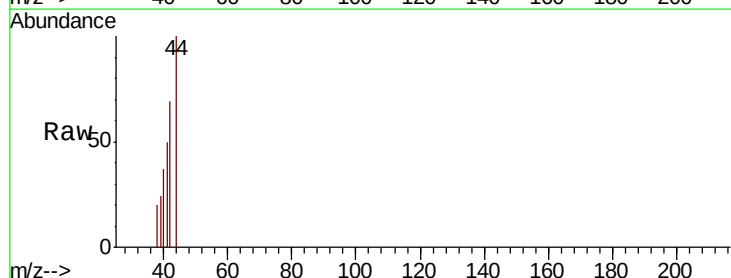
Ion Ratio Lower Upper

41 100

39 48.2 39.4 59.2

67 0.0 22.2 33.2#

52 0.0 10.1 15.1#

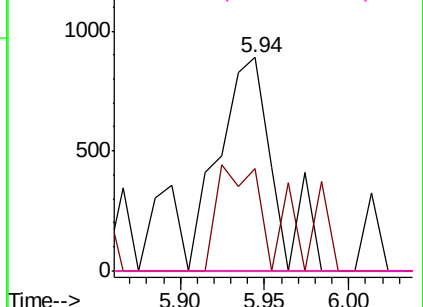
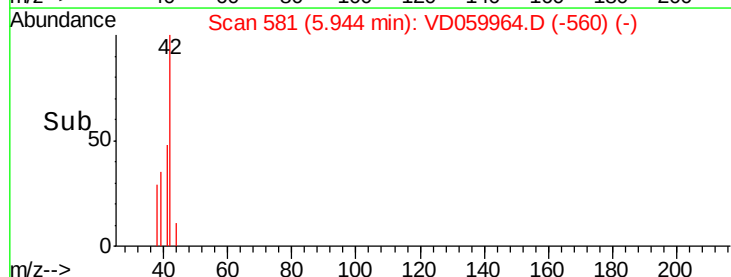


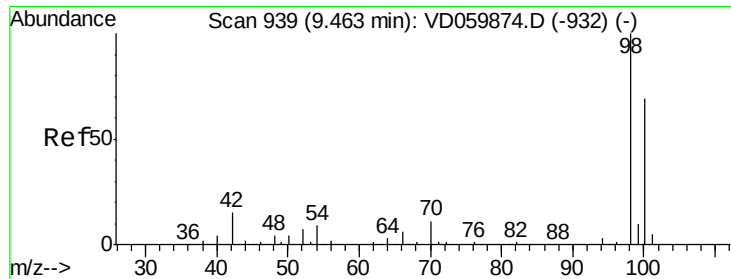
Abundance Ion 40.95 (40.65 to 41.65): VDC

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

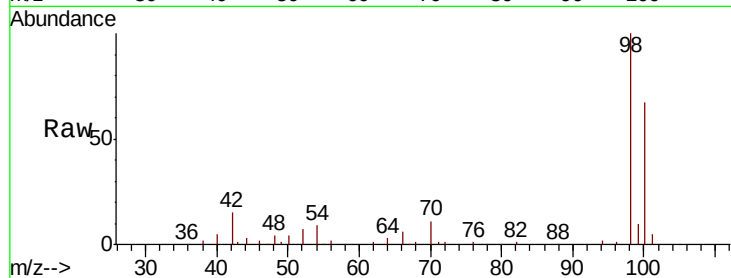




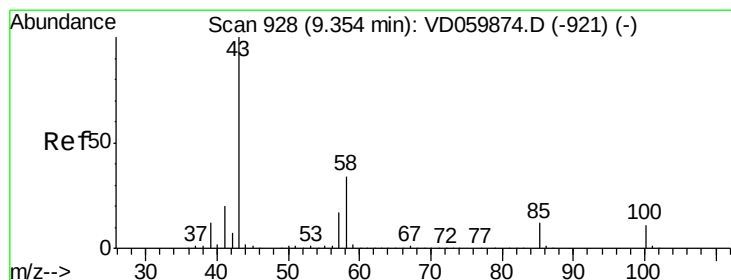
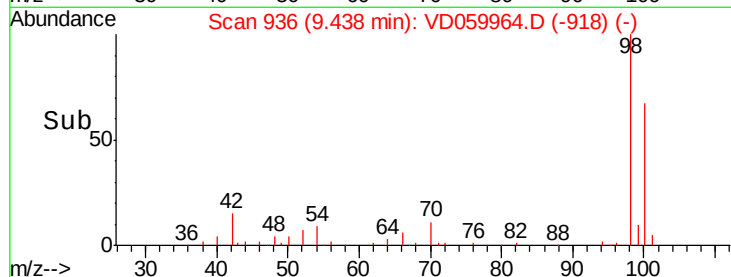
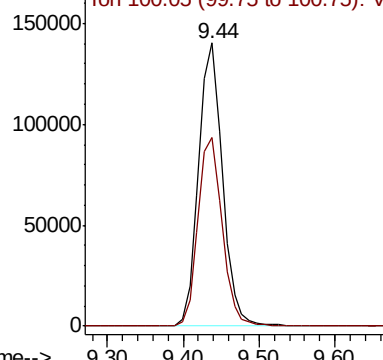
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 936
Delta R.T. -0.02 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
AOC2-02-A

Tot Ion: 98 Resp: 306035
Ion Ratio Lower Upper
98 100
100 66.5 55.8 83.6

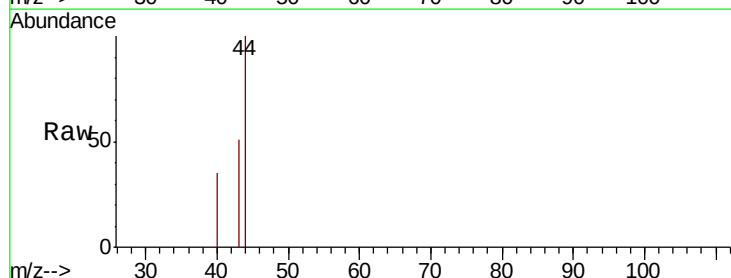


Abundance Ion 98.05 (97.75 to 98.75): VD059874.D (-932) (-)
Ion 100.05 (99.75 to 100.75): VD059874.D (-932) (-)

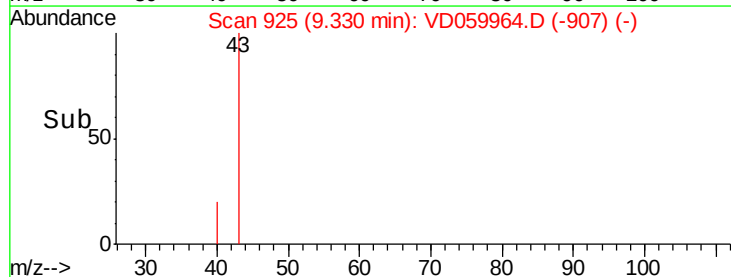
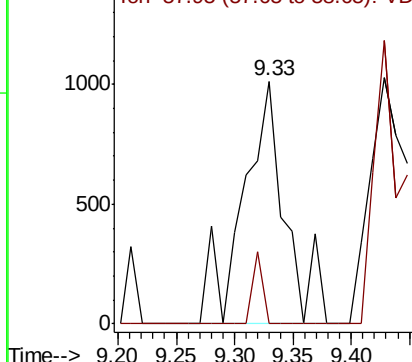


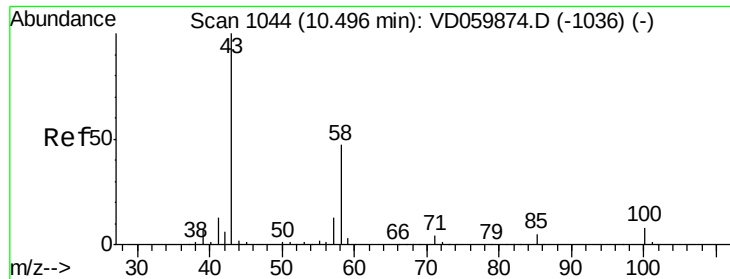
#51
4-Methyl-2-Pentanone
Concen: 1.50 ug/l
RT: 9.33 min Scan# 925
Delta R.T. -0.02 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Tgt Ion: 43 Resp: 2553
Ion Ratio Lower Upper
43 100
58 0.0 27.0 40.4#



Abundance Ion 42.95 (42.65 to 43.65): VD059874.D (-921) (-)
Ion 57.95 (57.65 to 58.65): VD059874.D (-921) (-)





#59

2-Hexanone

Concen: 1.41 ug/l

RT: 10.47 min Scan# 1041

Delta R.T. -0.02 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

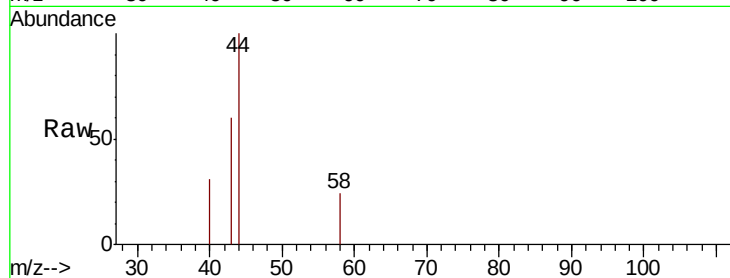
AOC2-02-A

Tot Ion: 43 Resp: 1774

Ion Ratio Lower Upper

43 100

58 39.7 23.3 69.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.47

1000

800

600

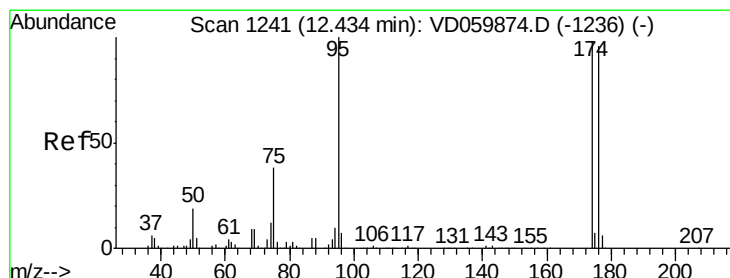
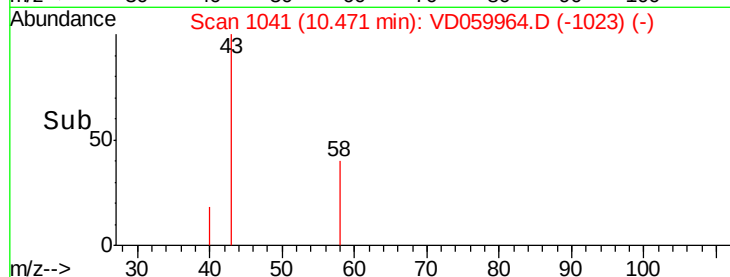
400

200

0

10.45 10.50

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.42 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

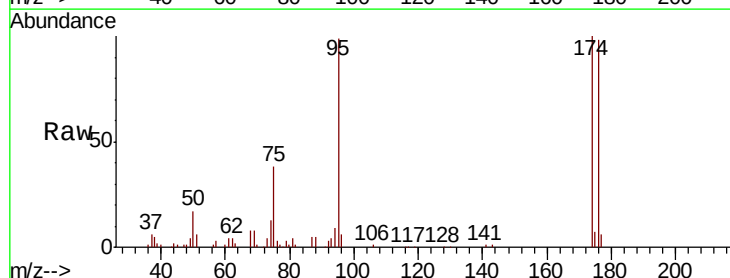
Tgt Ion: 95 Resp: 139710

Ion Ratio Lower Upper

95 100

174 101.2 0.0 195.6

176 98.8 0.0 191.2



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

120000

100000

80000

60000

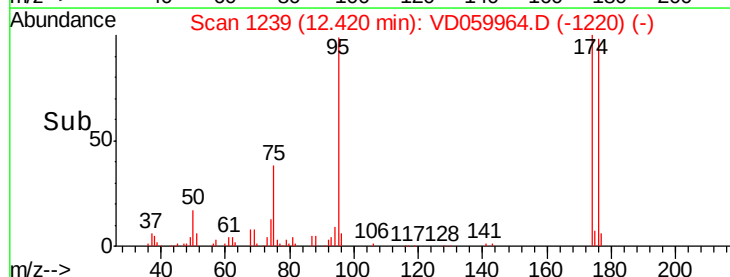
40000

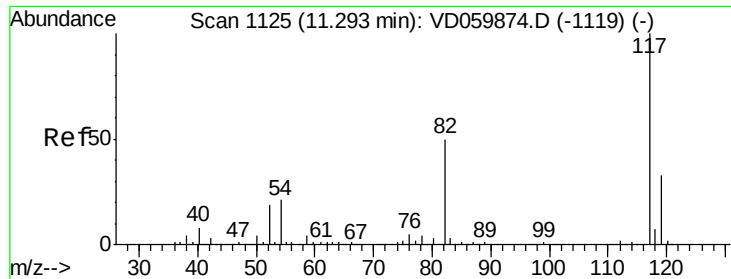
20000

0

12.40 12.50

Time-->

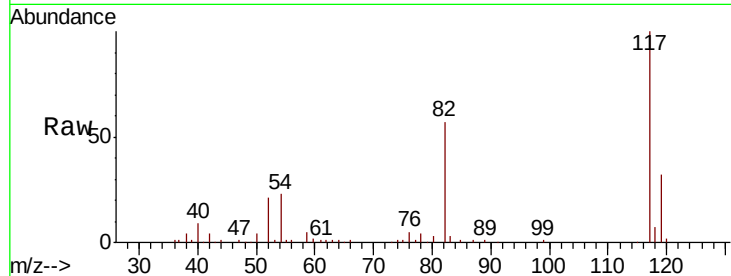




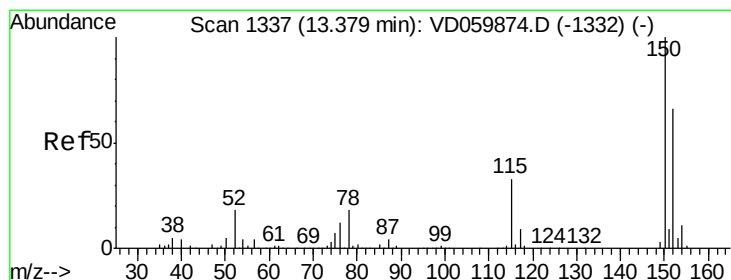
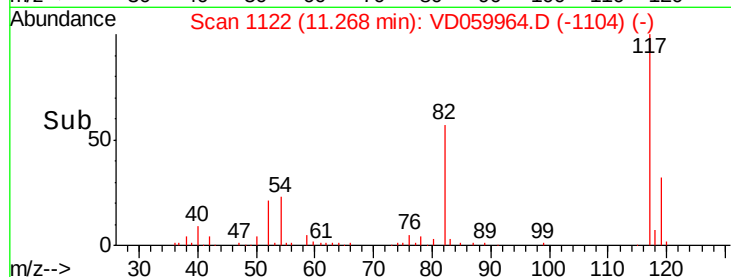
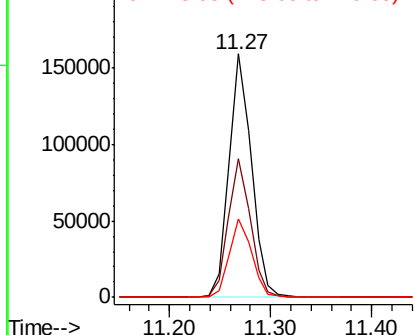
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.27 min Scan# 1122
Delta R.T. -0.02 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Instrument :
MSVOA_D
ClientSampleId :
AOC2-02-A

Tot Ion:117 Resp: 245482
Ion Ratio Lower Upper
117 100
82 57.0 40.1 60.1
119 32.4 26.7 40.1

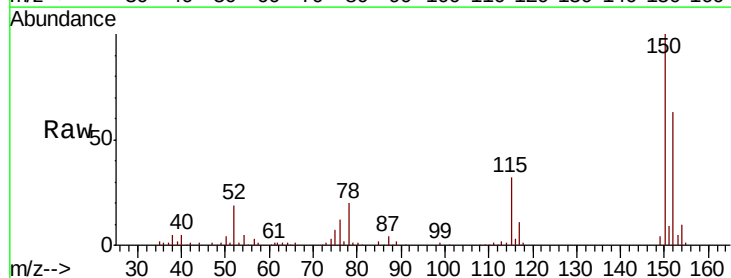


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

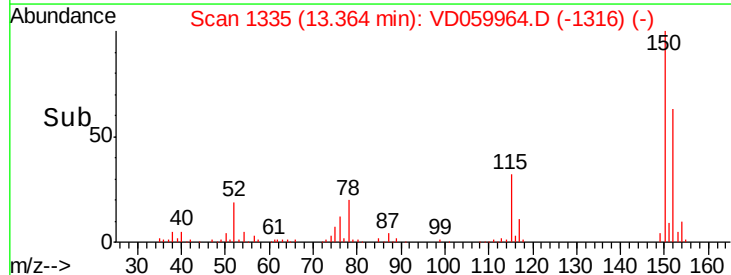
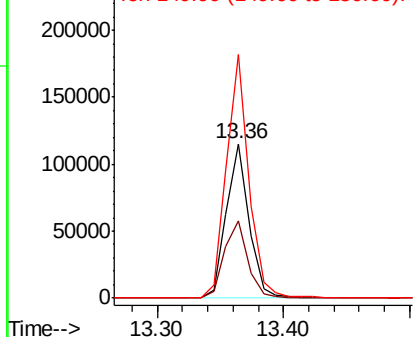


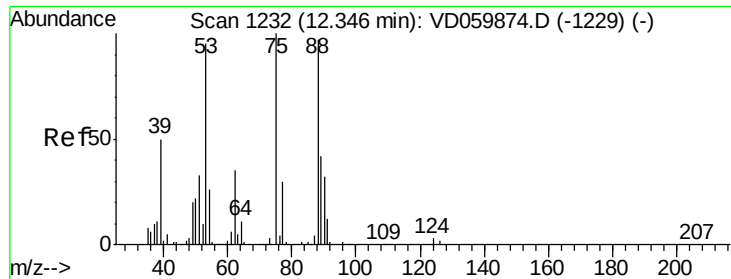
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.36 min Scan# 1335
Delta R.T. -0.01 min
Lab File: VD059964.D
Acq: 5 Sep 2018 12:48

Tgt Ion:152 Resp: 142357
Ion Ratio Lower Upper
152 100
115 50.1 25.7 77.0
150 157.9 0.0 310.2



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: 86.41 ug/l

RT: 12.41 min Scan# 1238

Delta R.T. 0.06 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

Instrument :

MSVOA_D

ClientSampleId :

AOC2-02-A

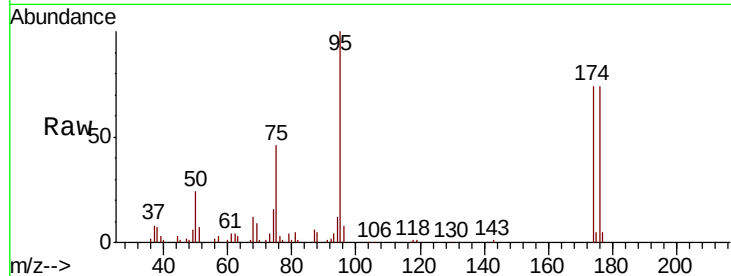
Tot Ion: 75 Resp: 59471

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.6#

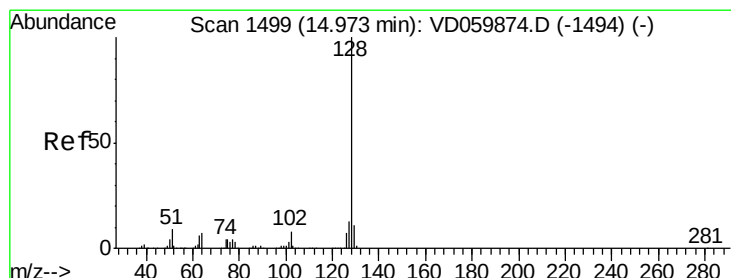
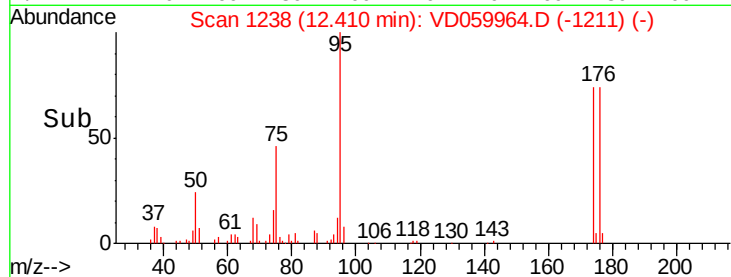
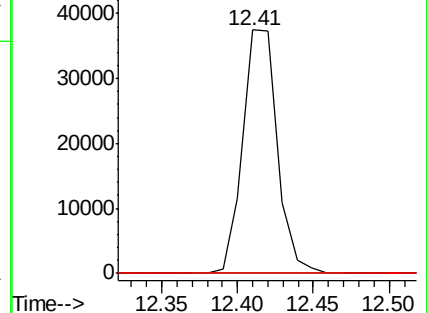
89 0.0 33.6 50.4#



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



#95

Naphthalene

Concen: 1.05 ug/l

RT: 14.96 min Scan# 1497

Delta R.T. -0.01 min

Lab File: VD059964.D

Acq: 5 Sep 2018 12:48

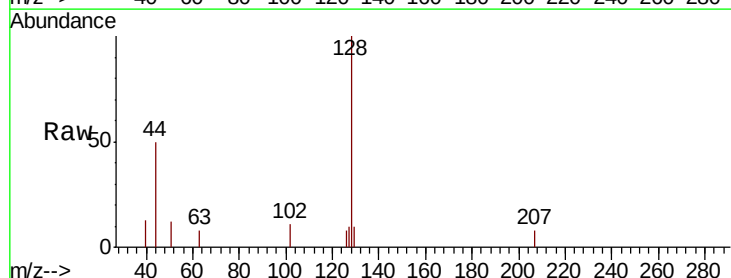
Tgt Ion:128 Resp: 5255

Ion Ratio Lower Upper

128 100

127 9.7 10.0 15.0#

129 9.6 8.6 13.0



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

