

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\
 Data File : VD058049.D
 Acq On : 9 Jun 2018 7:47
 Operator : VA/AP
 Sample : J3347-02
 Misc : 6.27g/5ml/MSVOA D/SOIL
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

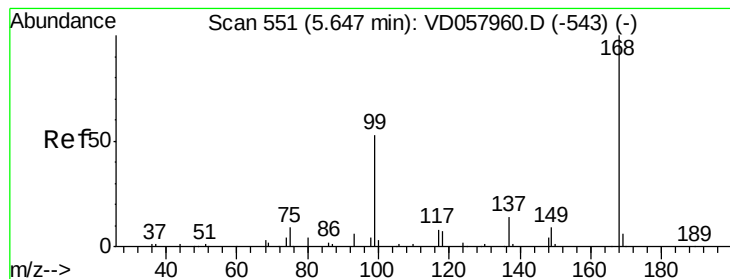
Quant Time: Jun 11 04:06:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	37592	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	61856	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	46371	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.90	152	17608	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	49586	131.94	ug/l	-0.01
Spiked Amount			Recovery	=	263.88%	
35) Dibromofluoromethane	5.55	113	37757	78.89	ug/l	-0.01
Spiked Amount			Recovery	=	157.78%	
50) Toluene-d8	8.70	98	44459	39.07	ug/l	-0.01
Spiked Amount			Recovery	=	78.14%	
62) 4-Bromofluorobenzene	11.93	95	23153	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.73	94	187	1.984	ug/l #	3
14) Allyl chloride	2.96	41	694	1.995	ug/l #	10
16) Acetone	2.61	43	8727	161.174	ug/l	95
18) Methyl Acetate	2.93	43	843	8.048	ug/l #	66
20) Methylene Chloride	3.09	84	1178	1.179	ug/l #	56
25) 2-Butanone	4.82	43	450	3.657	ug/l #	64
29) Tetrahydrofuran	5.21	42	216	3.349	ug/l #	39
36) 1,1-Dichloropropene	5.65	75	3173	4.656	ug/l #	45
37) Ethyl Acetate	4.82	43	450	1.210	ug/l #	72
38) Carbon Tetrachloride	5.64	117	3075	4.578	ug/l #	12
40) Benzene	6.01	78	1669	1.048	ug/l #	53
64) Tetrachloroethene	9.50	164	882	2.128	ug/l #	49
81) trans-1,4-Dichloro-2-buten	11.93	75	12066	184.180	ug/l #	6
82) 4-Chlorotoluene	12.32	91	194	Below Cal	#	50
89) n-Butylbenzene	13.19	91	213	Below Cal	#	30
93) 1,2,4-Trichlorobenzene	14.33	180	546	1.238	ug/l #	11
95) Naphthalene	14.51	128	745	1.311	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.00 min

Lab File: VD058049.D

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Instrument :

MSVOA_D

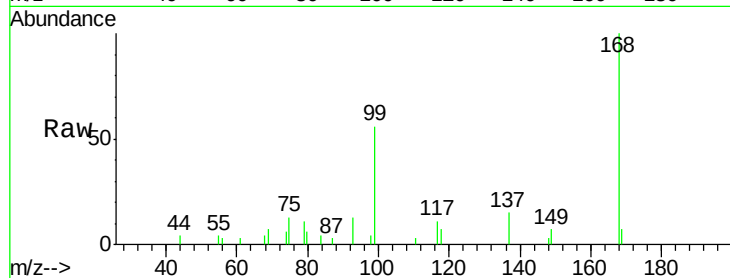
ClientSampled :

Tot Ion:168 Resp: 37592

Ion Ratio Lower Upper

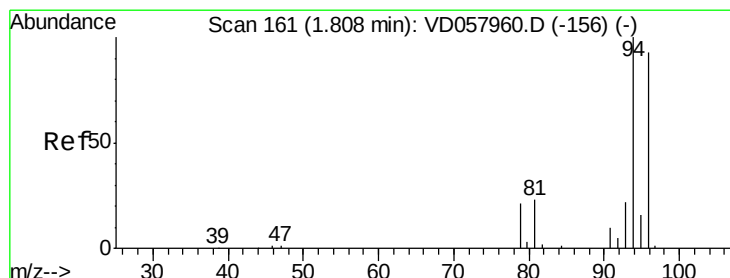
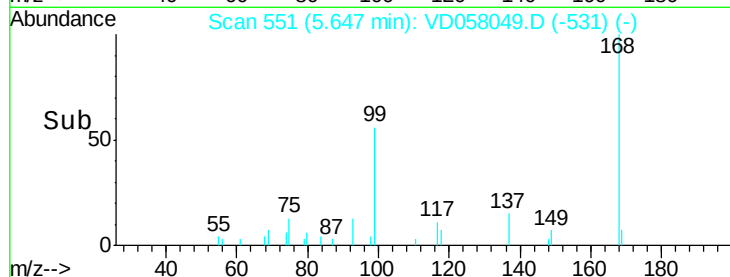
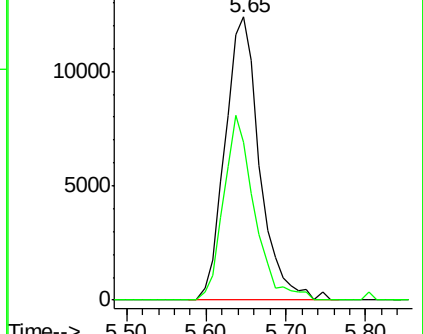
168 100

99 55.7 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.984 ug/l

RT: 1.73 min Scan# 153

Delta R.T. -0.08 min

Lab File: VD058049.D

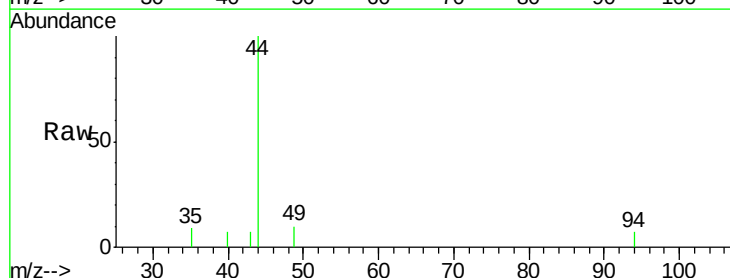
Acq: 9 Jun 2018 7:47

Tgt Ion: 94 Resp: 187

Ion Ratio Lower Upper

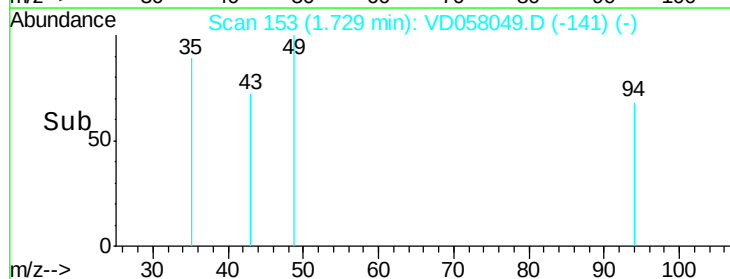
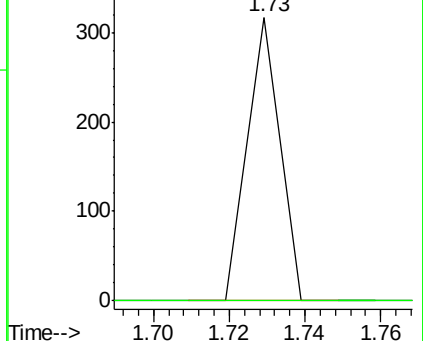
94 100

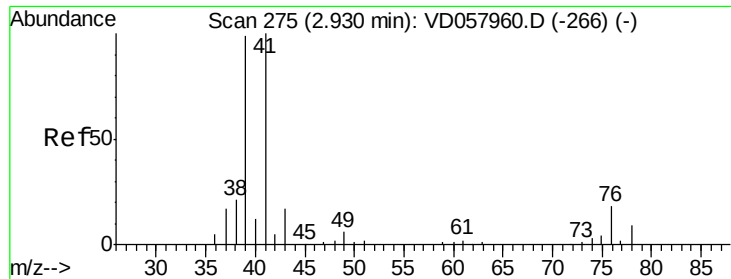
96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

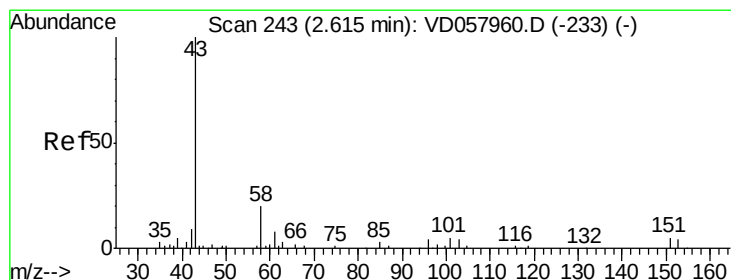
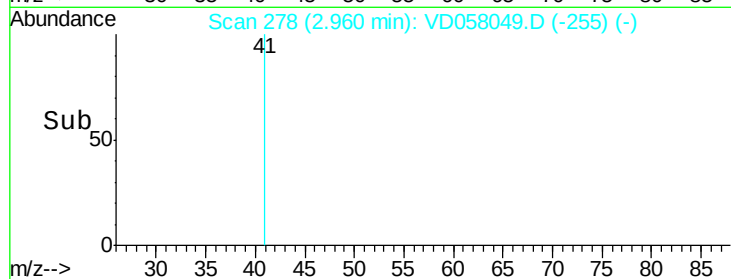
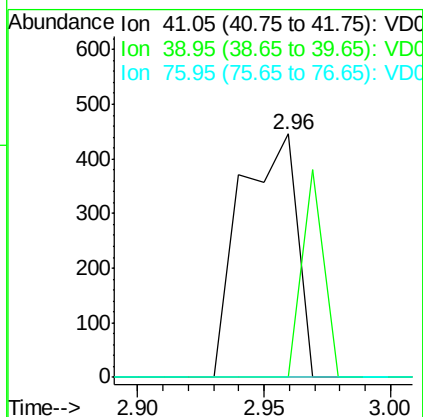
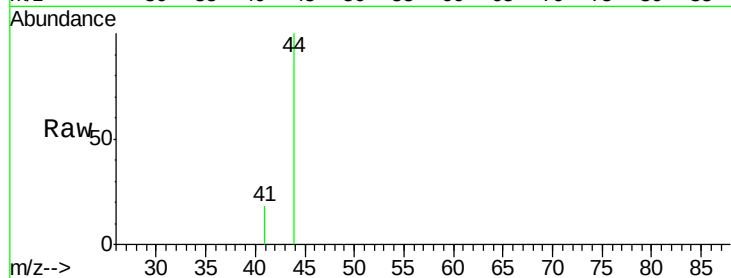




#14
Allvl chloride
Concen: 1.995 ug/l
RT: 2.96 min Scan# 278
Delta R.T. 0.03 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

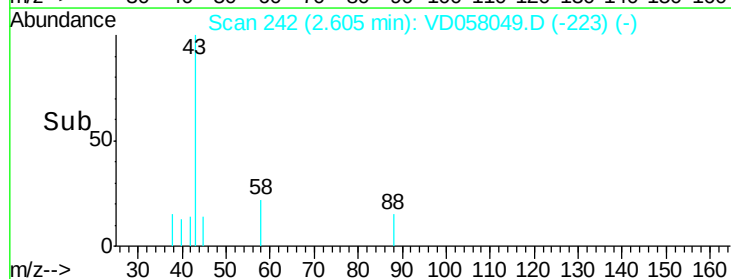
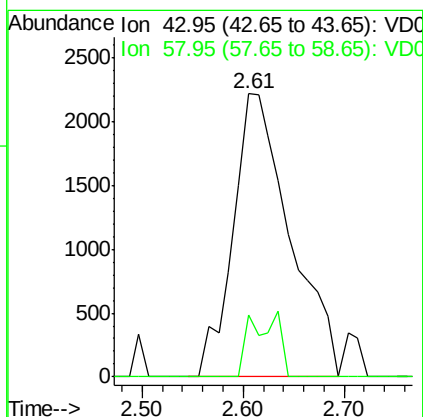
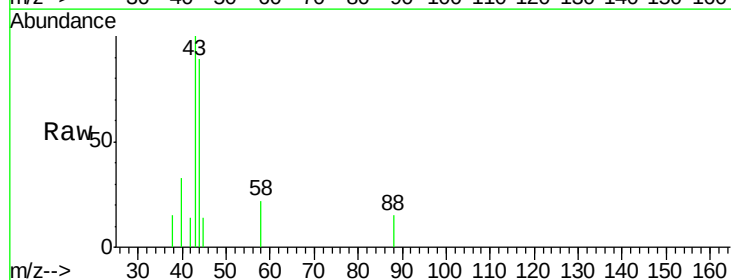
Instrument :
MSVOA_D
ClientSampleId :

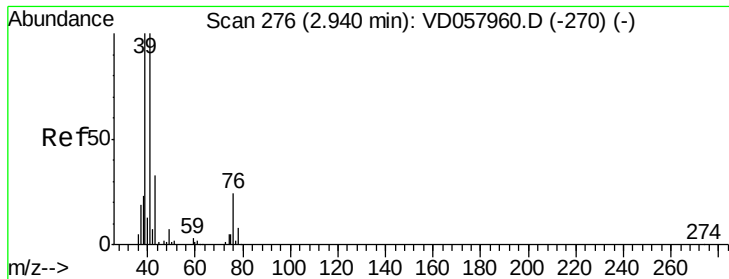
Tot Ion: 41 Resp: 694
Ion Ratio Lower Upper
41 100
39 0.0 79.5 119.3#
76 0.0 20.7 31.1#



#16
Acetone
Concen: 161.174 ug/l
RT: 2.61 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Tgt Ion: 43 Resp: 8727
Ion Ratio Lower Upper
43 100
58 22.1 15.8 23.8





#18

Methvl Acetate

Concen: 8.048 ug/l

RT: 2.93 min Scan# 275

Delta R.T. -0.01 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Instrument :

MSVOA_D

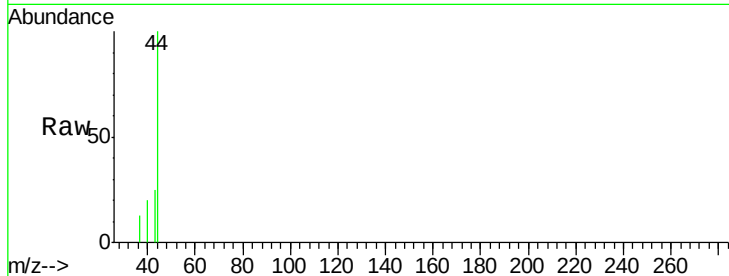
ClientSampleId :

Tot Ion: 43 Resp: 843

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

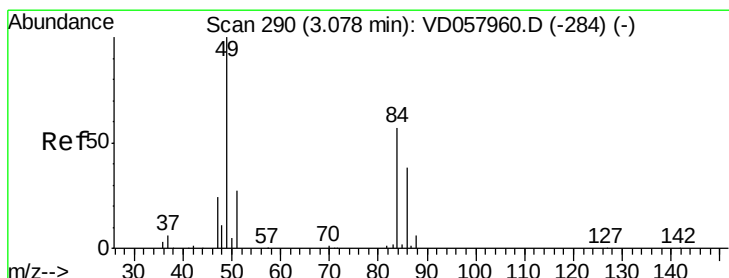
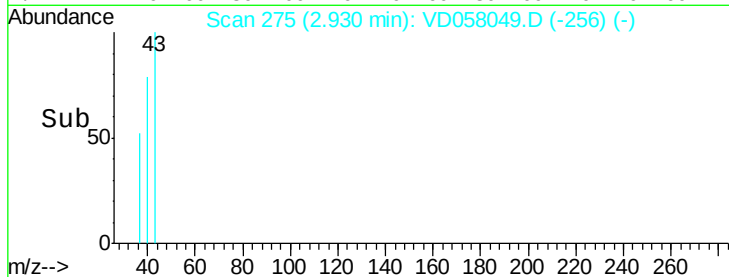
2.93

400

200

0

Time-->



#20

Methylene Chloride

Concen: 1.179 ug/l

RT: 3.09 min Scan# 291

Delta R.T. 0.01 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Tgt Ion: 84 Resp: 1178

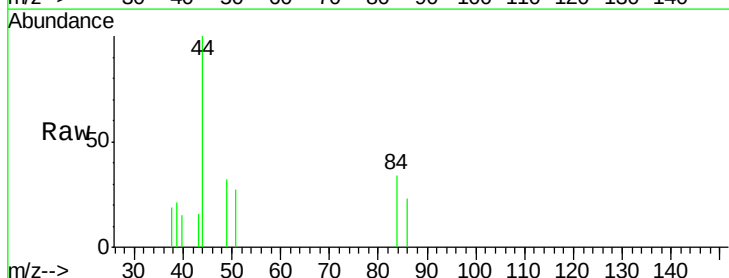
Ion Ratio Lower Upper

84 100

49 94.6 141.4 212.0#

51 80.3 38.3 57.5#

86 66.7 52.9 79.3



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

1200

1000

800

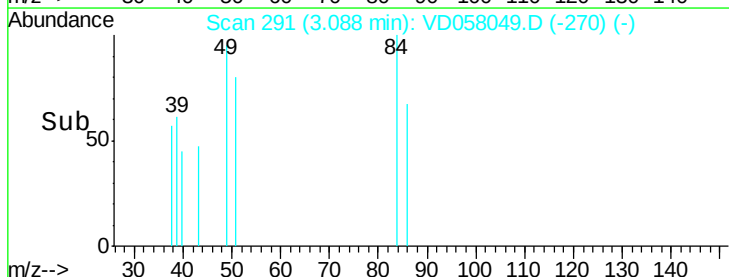
600

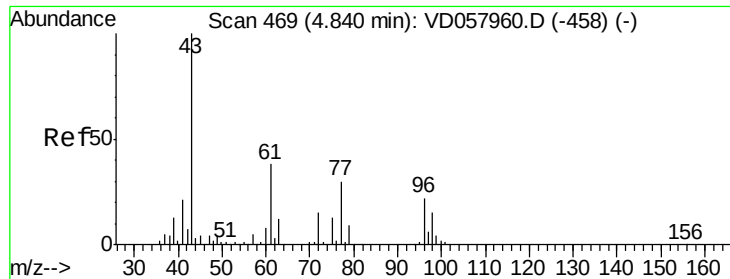
400

200

0

Time-->





#25

2-Butanone

Concen: 3.657 ug/l

RT: 4.82 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

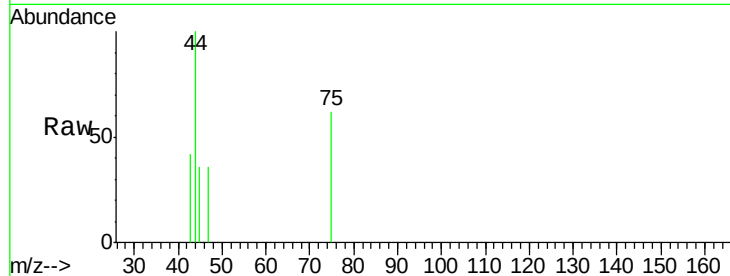
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 450

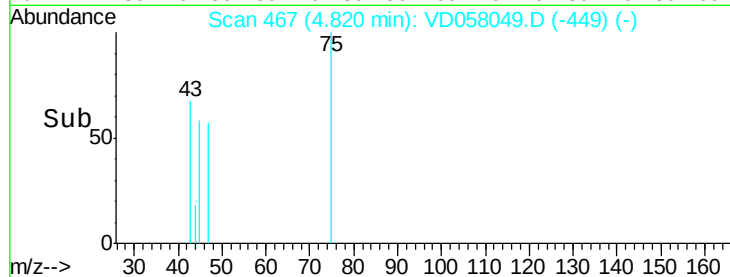
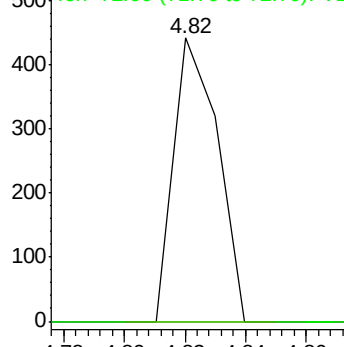
Ion Ratio Lower Upper

43 100

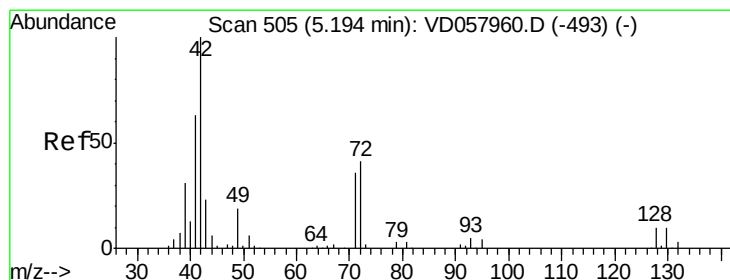
72 0.0 12.0 18.0#



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



Time-->



#29

Tetrahydrofuran

Concen: 3.349 ug/l

RT: 5.21 min Scan# 507

Delta R.T. 0.02 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

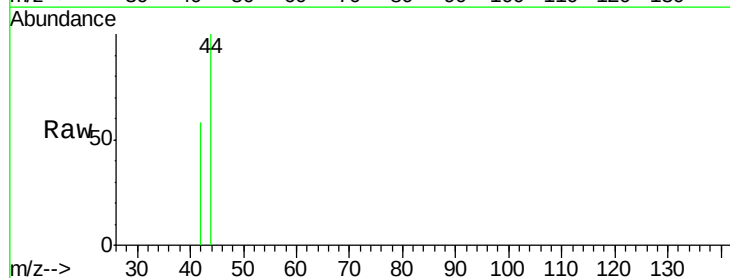
Tgt Ion: 42 Resp: 216

Ion Ratio Lower Upper

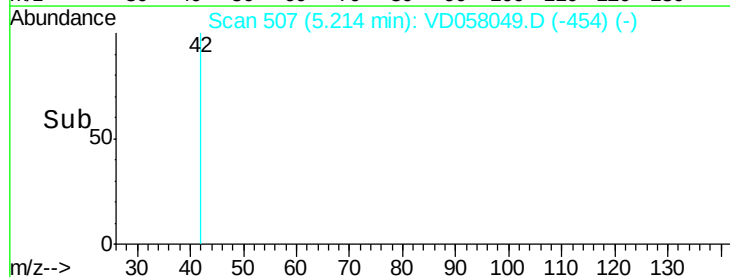
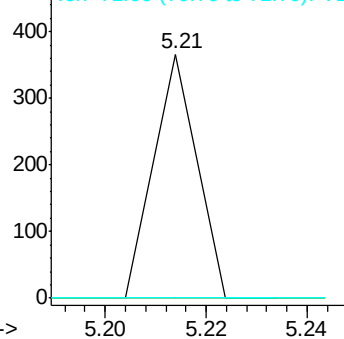
42 100

72 0.0 28.5 42.7#

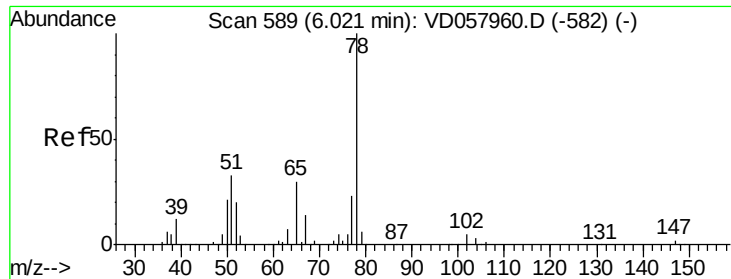
71 0.0 27.9 41.9#



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



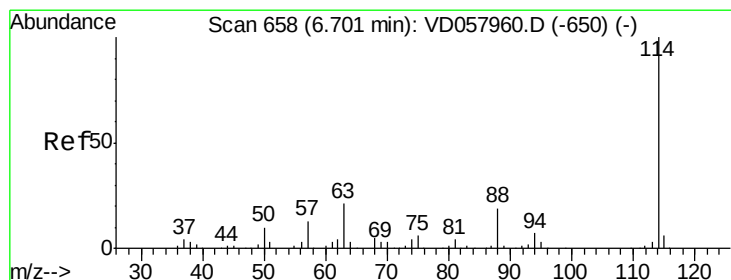
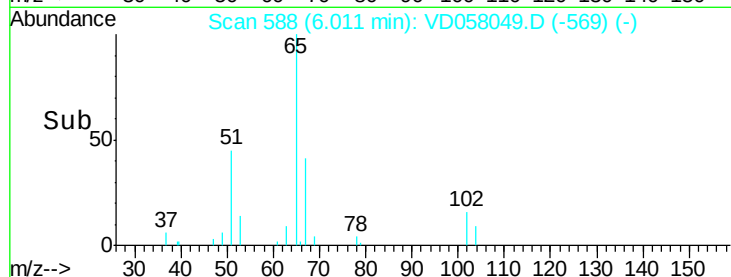
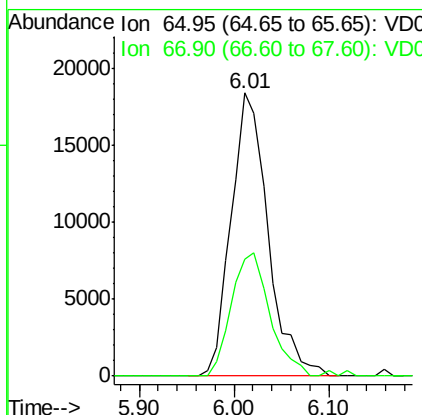
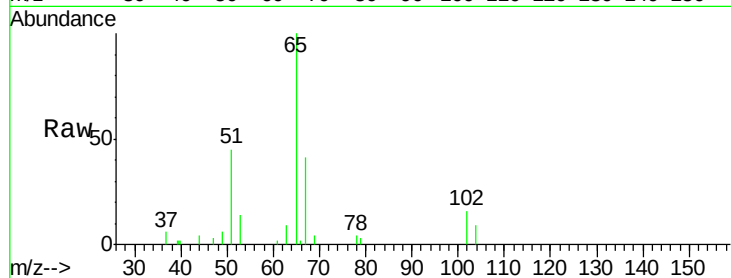
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. -0.01 min
 Lab File: VD058049.D
 Acq: 9 Jun 2018 7:47

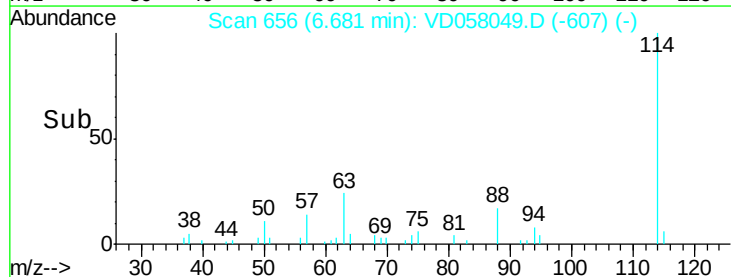
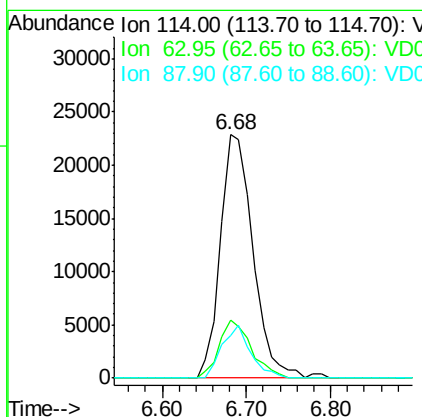
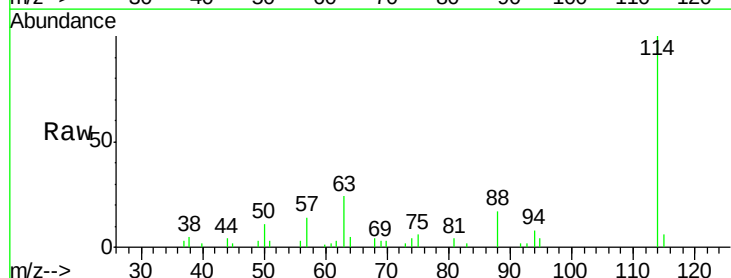
Instrument :
 MSVOA_D
 ClientSampleId :

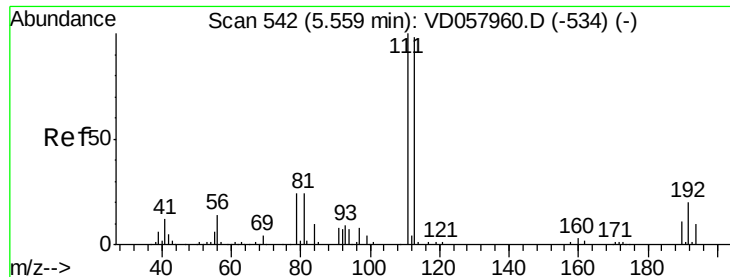
Tot Ion: 65 Resp: 49586
 Ion Ratio Lower Upper
 65 100
 67 41.2 0.0 94.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058049.D
 Acq: 9 Jun 2018 7:47

Tgt Ion: 114 Resp: 61856
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 42.8
 88 17.5 0.0 37.8

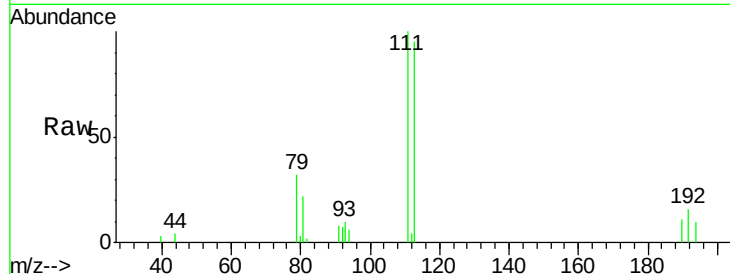




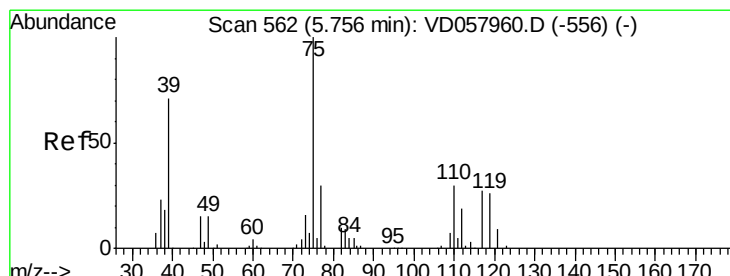
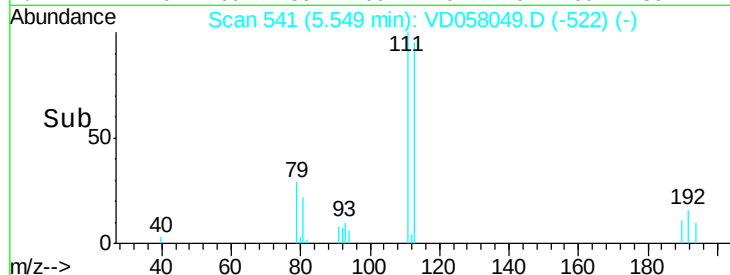
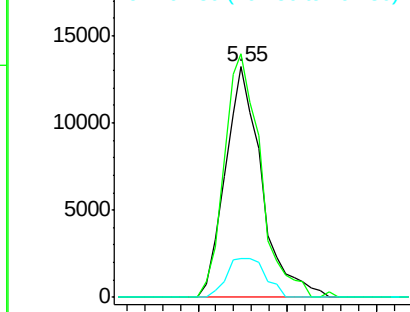
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: VD058049.D
 Acq: 9 Jun 2018 7:47

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 37757
 Ion Ratio Lower Upper
 113 100
 111 105.7 81.5 122.3
 192 17.1 16.4 24.6

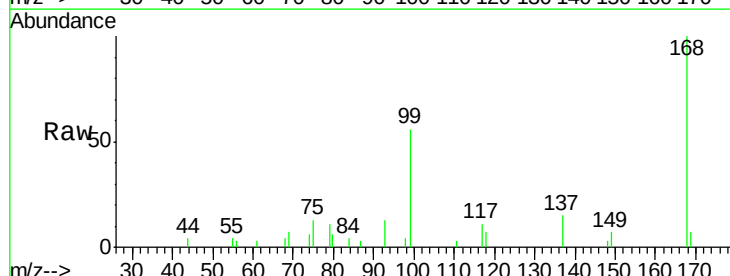


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

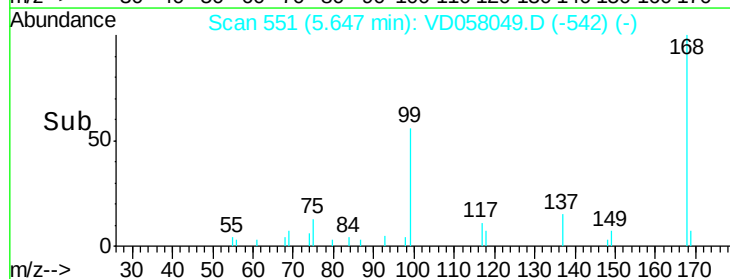
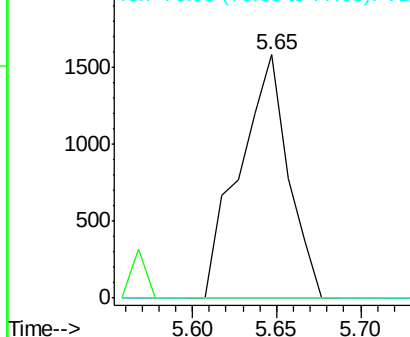


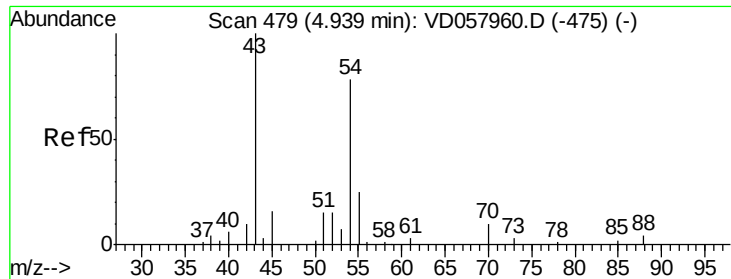
#36
 1,1-Dichloropropene
 Concen: 4.656 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. -0.11 min
 Lab File: VD058049.D
 Acq: 9 Jun 2018 7:47

Tgt Ion: 75 Resp: 3173
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.8 44.3#
 77 0.0 23.9 35.9#



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

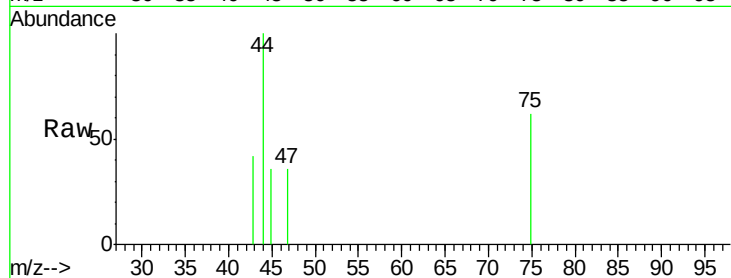




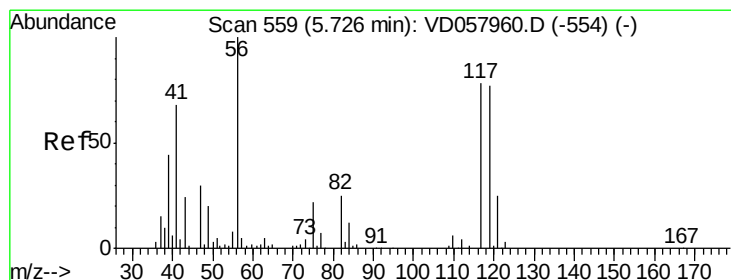
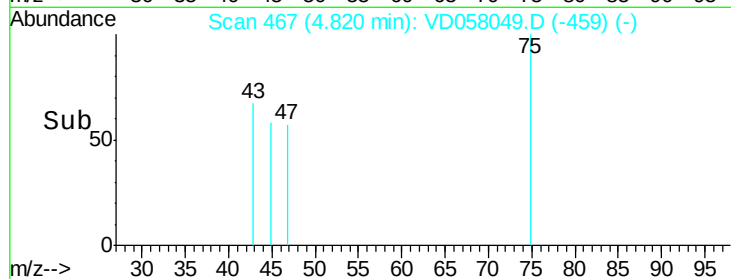
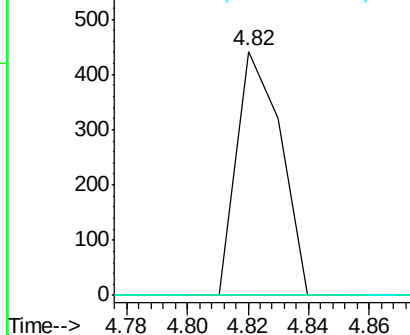
#37
Ethyl Acetate
Concen: 1.210 ug/l
RT: 4.82 min Scan# 467
Delta R.T. -0.12 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 450
Ion Ratio Lower Upper
43 100
61 0.0 9.9 14.9#
70 0.0 5.7 8.5#

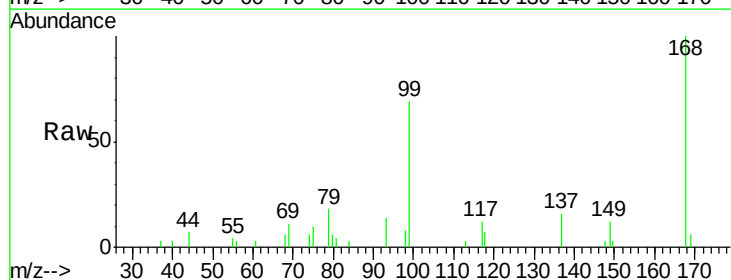


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

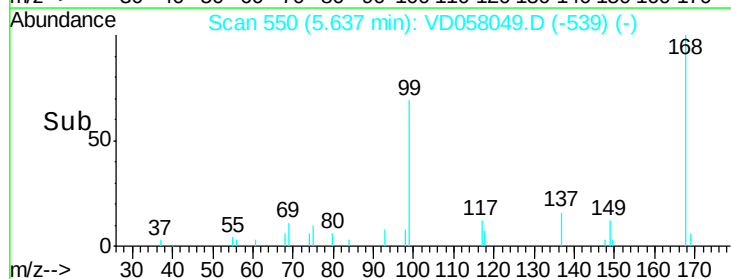
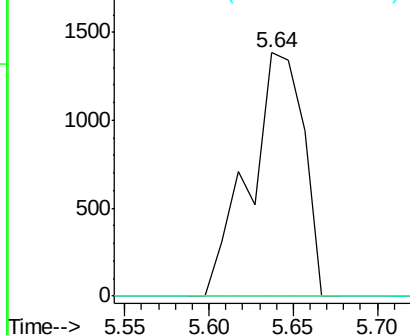


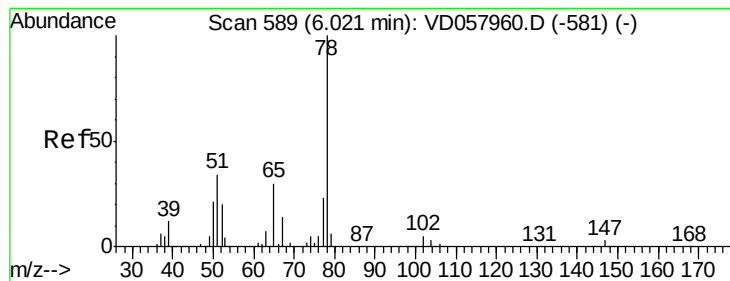
#38
Carbon Tetrachloride
Concen: 4.578 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.09 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Tgt Ion: 117 Resp: 3075
Ion Ratio Lower Upper
117 100
119 0.0 76.1 114.1#
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





#40

Benzene

Concen: 1.048 ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Instrument :

MSVOA_D

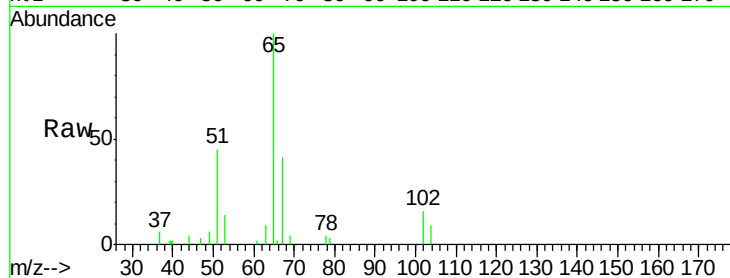
ClientSampled :

Tot Ion: 78 Resp: 1669

Ion Ratio Lower Upper

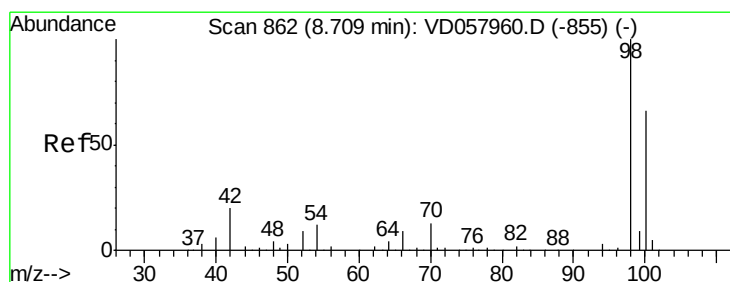
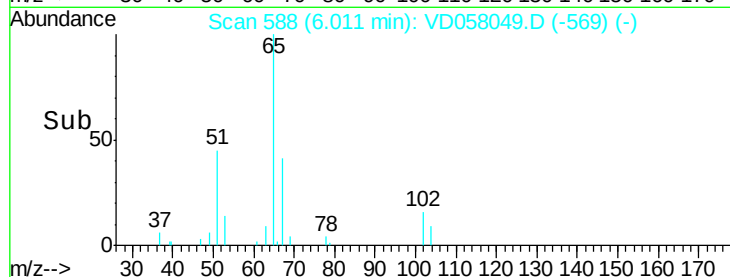
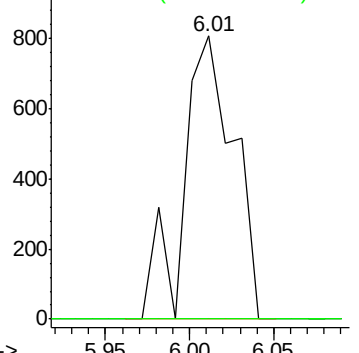
78 100

77 0.0 18.1 27.1#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058049.D

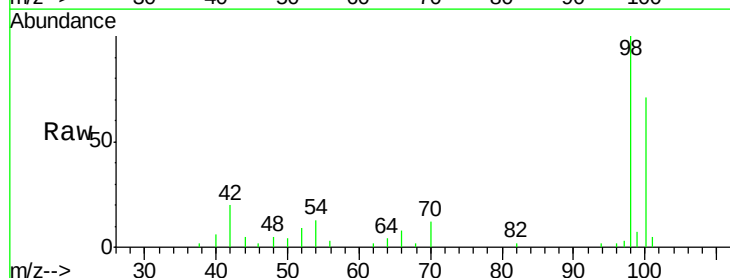
Acq: 9 Jun 2018 7:47

Tgt Ion: 98 Resp: 44459

Ion Ratio Lower Upper

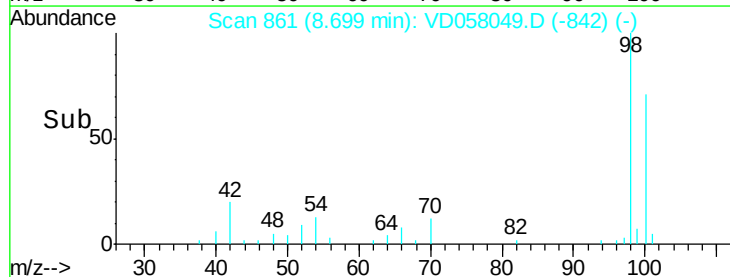
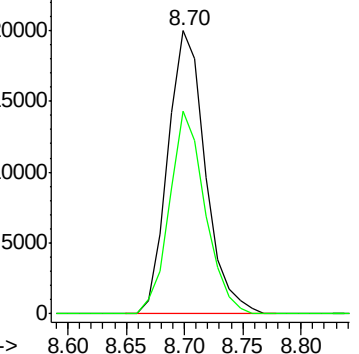
98 100

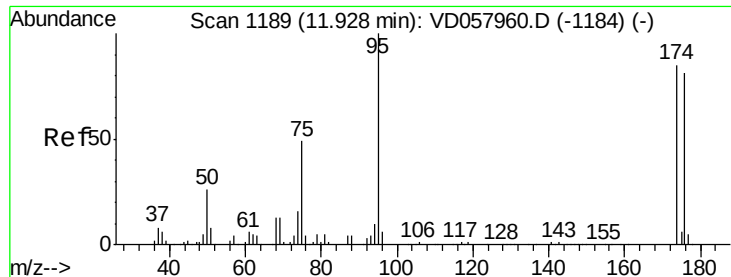
100 71.4 53.4 80.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

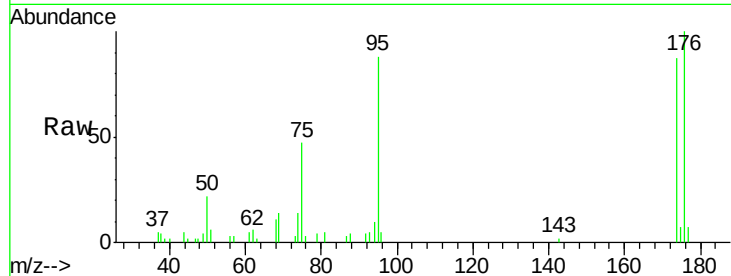




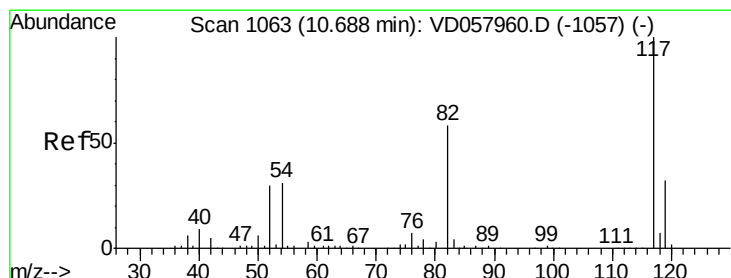
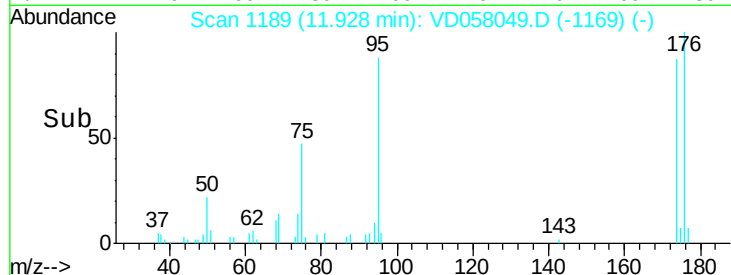
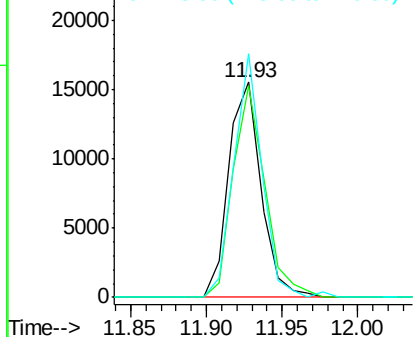
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 23153
Ion Ratio Lower Upper
95 100
174 98.7 0.0 169.4
176 113.2 0.0 162.6

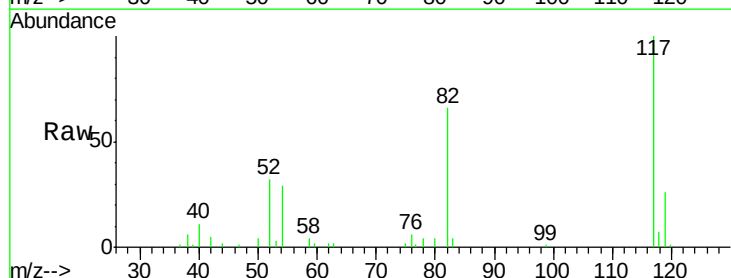


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

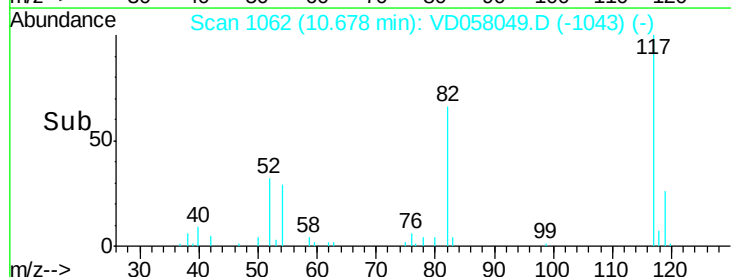
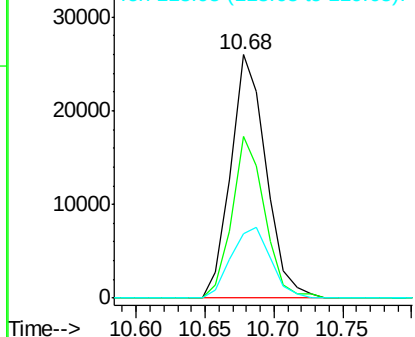


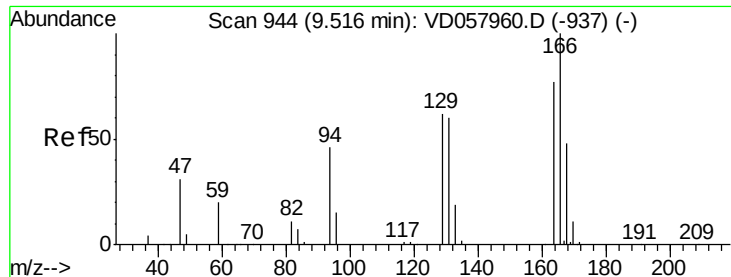
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Tgt Ion: 117 Resp: 46371
Ion Ratio Lower Upper
117 100
82 66.5 46.8 70.2
119 26.5 25.8 38.6



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





#64

Tetrachloroethene

Concen: 2.128 ug/l

RT: 9.50 min Scan# 942

Delta R.T. -0.02 min

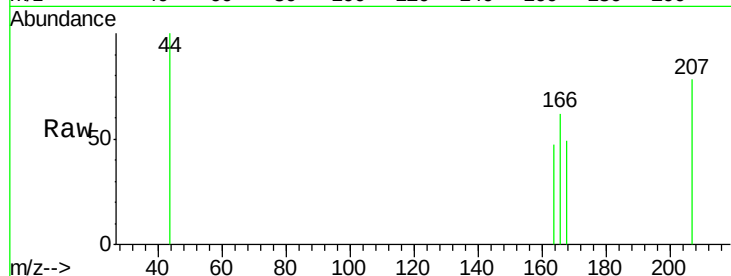
Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Instrument :

MSVOA_D

ClientSampled :



Tot Ion:164 Resp: 882

Ion Ratio Lower Upper

164 100

166 133.3 104.4 156.6

129 0.0 65.0 97.6#

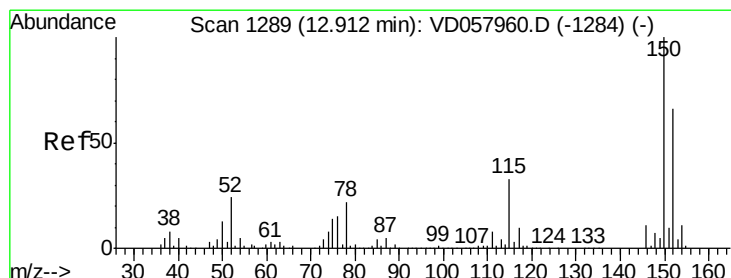
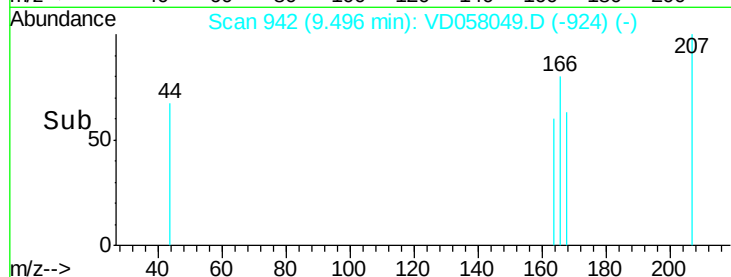
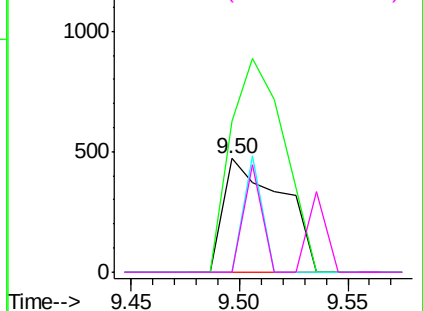
131 0.0 62.9 94.3#

Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Tgt Ion:152 Resp: 17608

Ion Ratio Lower Upper

152 100

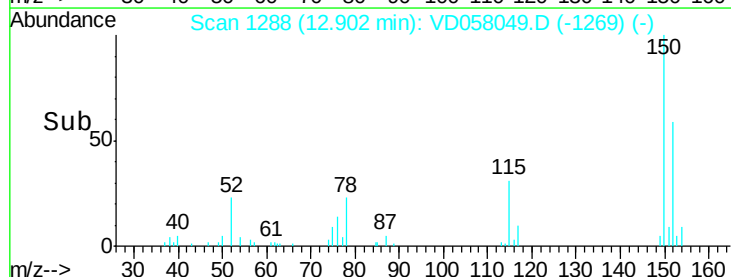
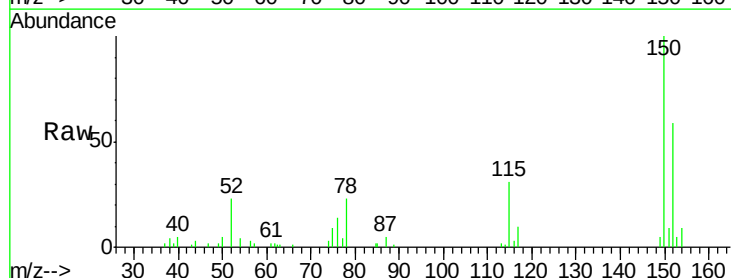
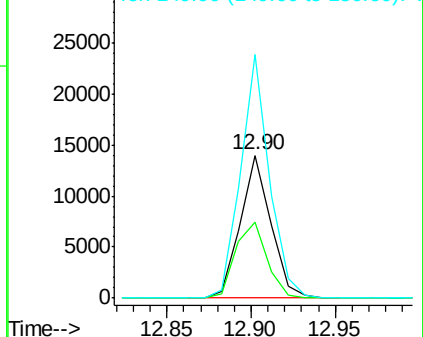
115 53.4 25.6 76.6

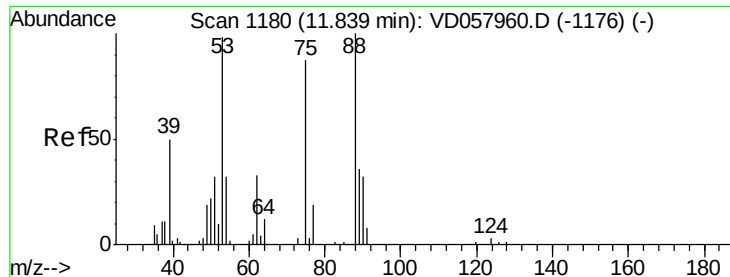
150 170.5 0.0 306.8

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

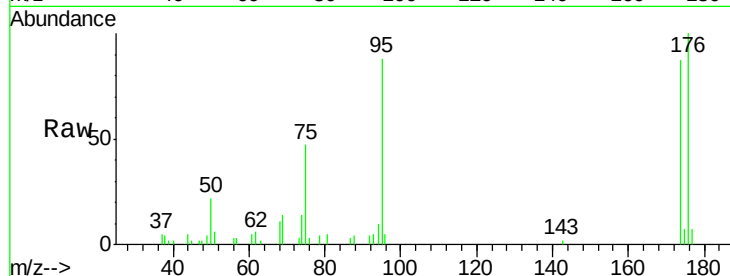




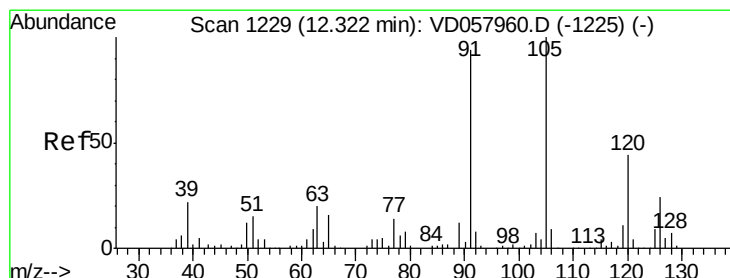
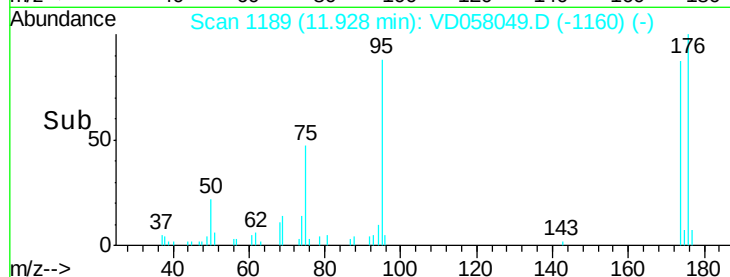
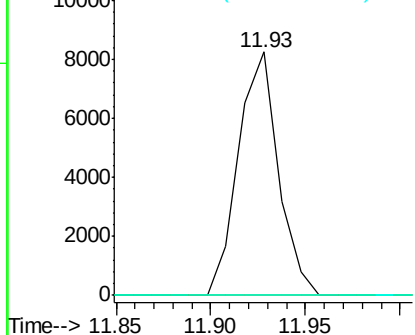
#81
trans-1,4-Dichloro-2-butene
Concen: 184.180 ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.09 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 75 Resp: 12066
Ion Ratio Lower Upper
75 100
53 0.0 89.3 133.9#
89 0.0 33.3 49.9#

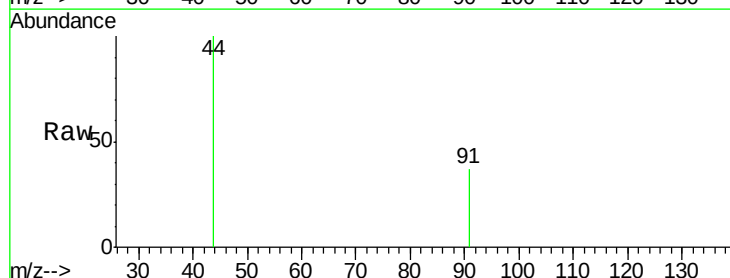


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

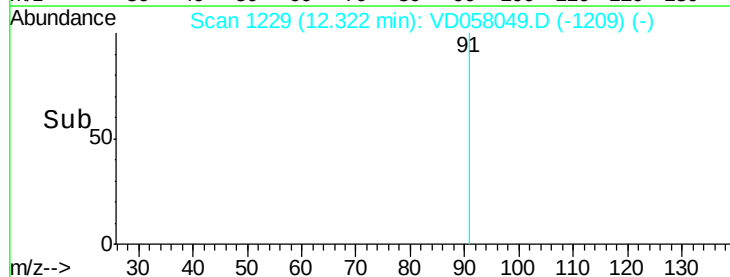
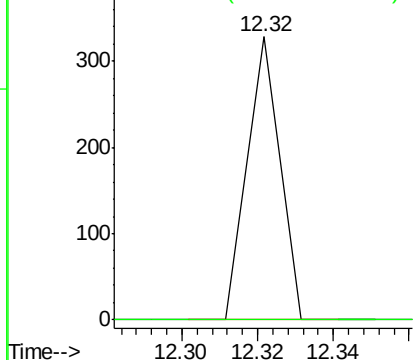


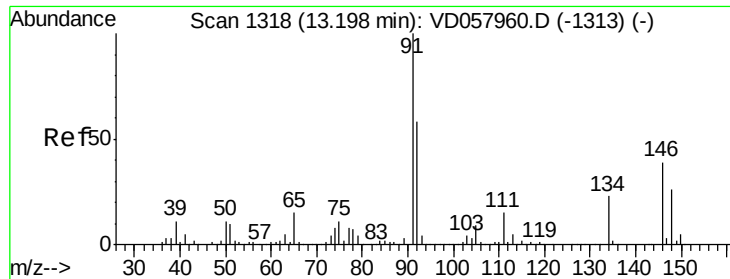
#82
4-Chlorotoluene
Concen: Below Cal
RT: 12.32 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Tgt Ion: 91 Resp: 194
Ion Ratio Lower Upper
91 100
126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

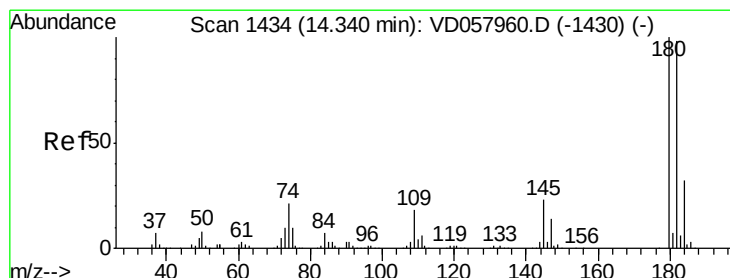
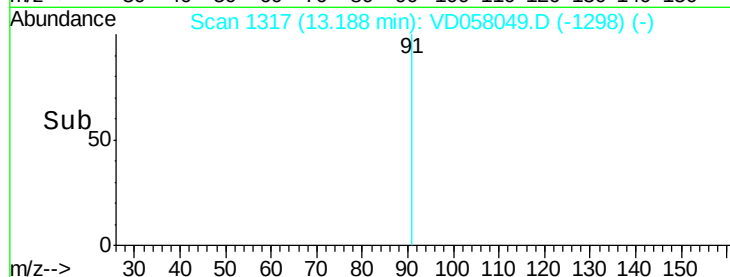
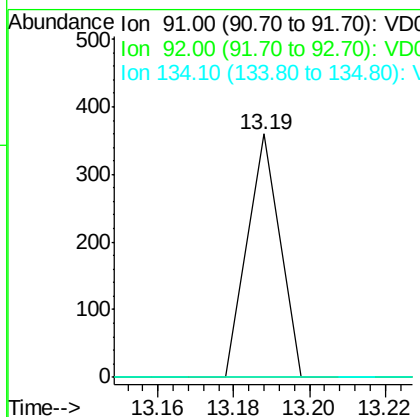
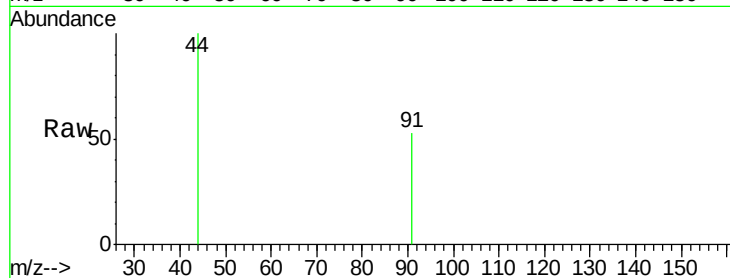




#89
n-Butylbenzene
Concen: Below Cal
RT: 13.19 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

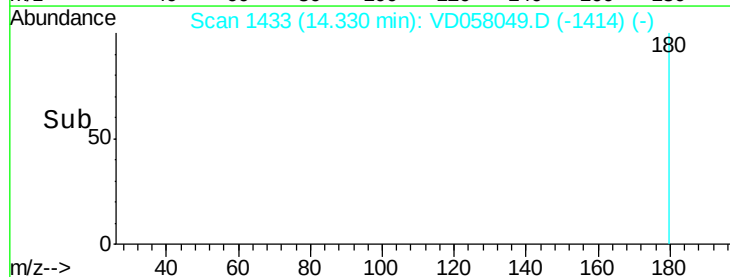
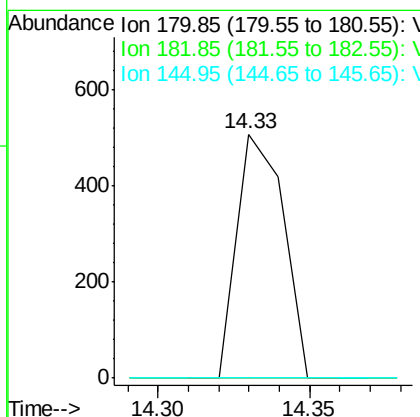
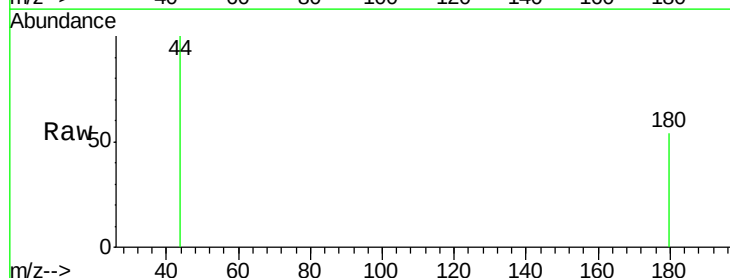
Instrument :
MSVOA_D
ClientSampleId :

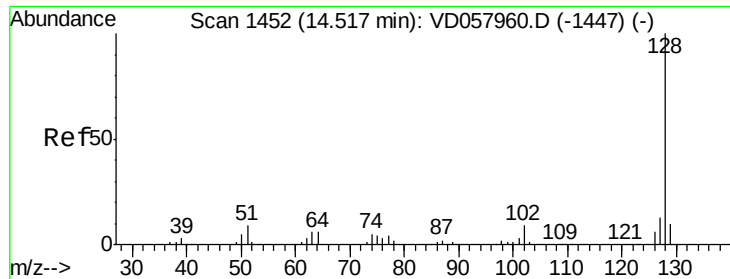
Tot Ion: 91 Resp: 213
Ion Ratio Lower Upper
91 100
92 0.0 29.2 87.6#
134 0.0 11.3 33.9#



#93
1,2,4-Trichlorobenzene
Concen: 1.238 ug/l
RT: 14.33 min Scan# 1433
Delta R.T. -0.01 min
Lab File: VD058049.D
Acq: 9 Jun 2018 7:47

Tgt Ion: 180 Resp: 546
Ion Ratio Lower Upper
180 100
182 0.0 49.0 147.2#
145 0.0 11.8 35.3#





#95

Naphthalene

Concen: 1.311 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

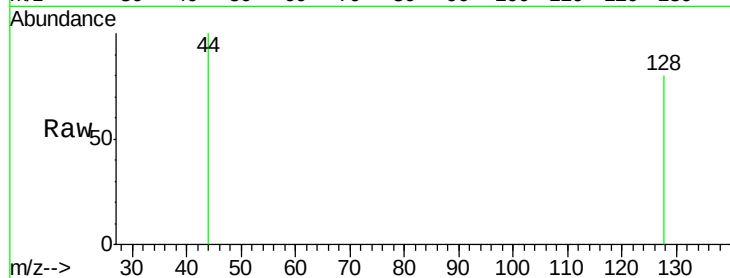
Lab File: VD058049.D

Acq: 9 Jun 2018 7:47

Instrument :

MSVOA_D

ClientSampleId :



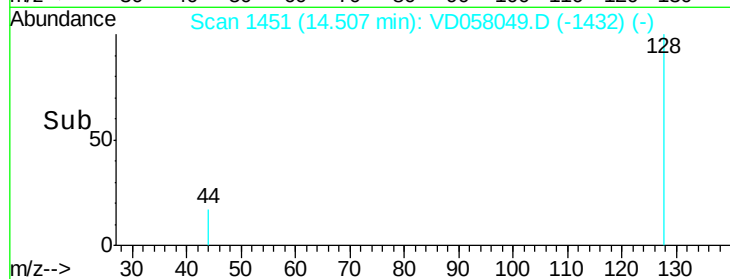
Tot Ion:128 Resp: 745

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.2 12.2#



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

