

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062618\
 Data File : VD059435.D
 Acq On : 26 Jun 2018 20:38
 Operator : VA/AP
 Sample : J3642-05RE
 Misc : 4.28g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 27 05:53:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062518S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 07:29:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	7475	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	6.68	114	9719	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.67	117	8145	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.90	152	2762	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.00	65	4996	65.36	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	130.72%	
35) Dibromofluoromethane	5.53	113	2637	33.31	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	66.62%	
50) Toluene-d8	8.69	98	5657	30.57	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	61.14%	
62) 4-Bromofluorobenzene	11.92	95	2522	32.76	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	65.52%	

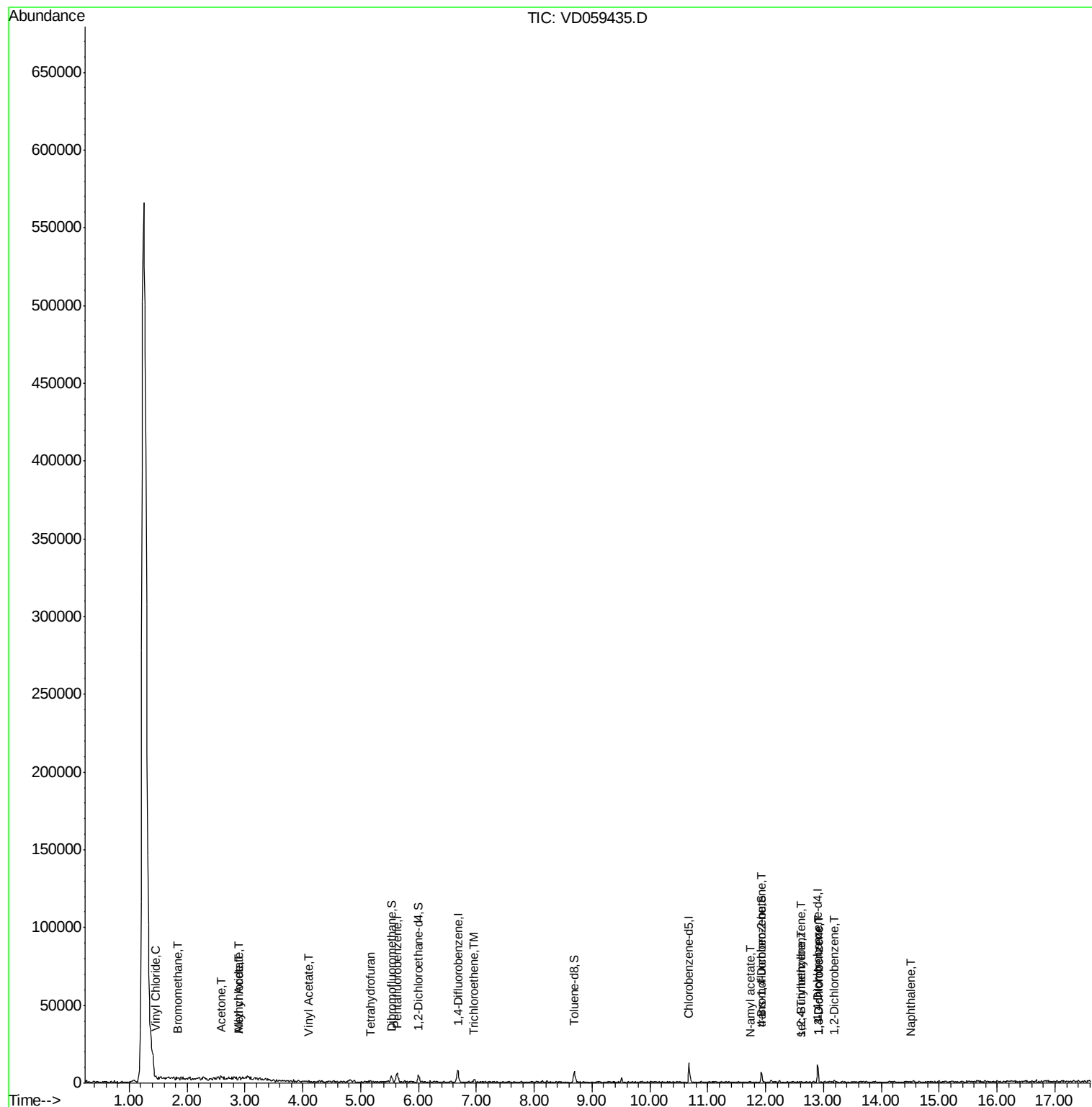
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.47	62	216	6.016	ug/l #	46
5) Bromomethane	1.83	94	486	38.750	ug/l #	4
14) Allyl chloride	2.89	41	221	3.920	ug/l #	11
16) Acetone	2.60	43	921	95.463	ug/l #	55
18) Methyl Acetate	2.89	43	409	18.066	ug/l #	66
23) Vinyl Acetate	4.11	43	250	2.262	ug/l #	81
29) Tetrahydrofuran	5.17	42	246	22.253	ug/l #	37
44) Trichloroethene	6.96	130	955	13.786	ug/l	89
74) N-amyl acetate	11.74	43	209	3.524	ug/l #	53
81) trans-1,4-Dichloro-2-buten	11.93	75	1169	135.001	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.61	105	184	1.401	ug/l #	33
85) sec-Butylbenzene	12.61	105	184	1.136	ug/l #	62
87) 1,3-Dichlorobenzene	12.93	146	724	8.971	ug/l #	25
88) 1,4-Dichlorobenzene	12.93	146	724	9.091	ug/l #	25
91) 1,2-Dichlorobenzene	13.19	146	698	10.201	ug/l #	66
95) Naphthalene	14.51	128	609	6.907	ug/l #	71

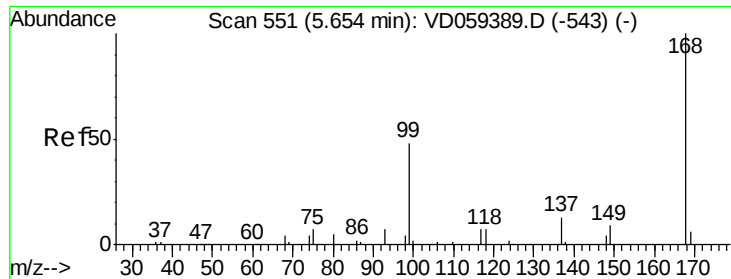
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 07:29:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.02 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

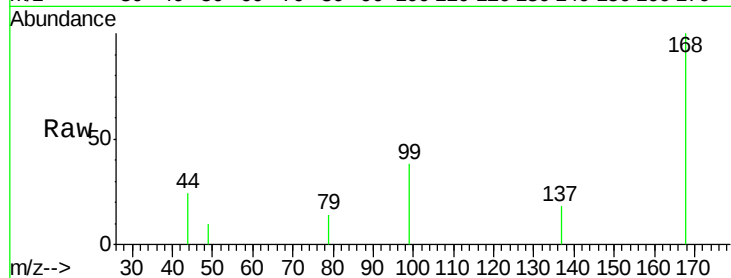
ClientSampleId :

Tot Ion:168 Resp: 7475

Ion Ratio Lower Upper

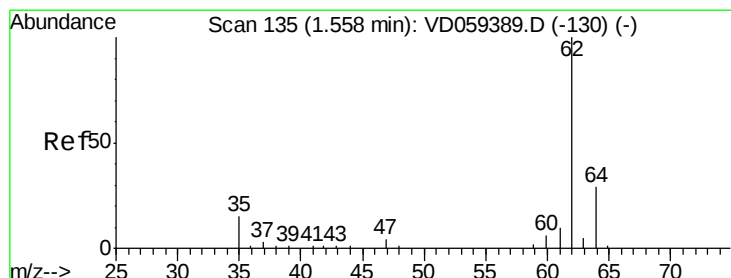
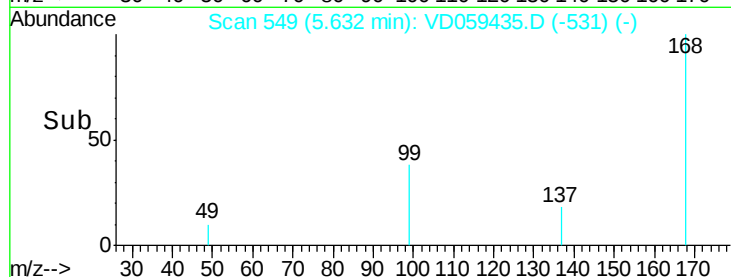
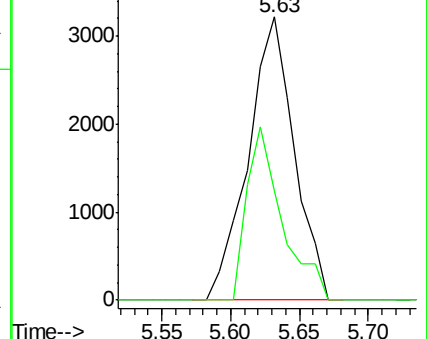
168 100

99 38.4 41.0 61.6#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#4

Vinyl Chloride

Concen: 6.016 ug/l

RT: 1.47 min Scan# 126

Delta R.T. -0.09 min

Lab File: VD059435.D

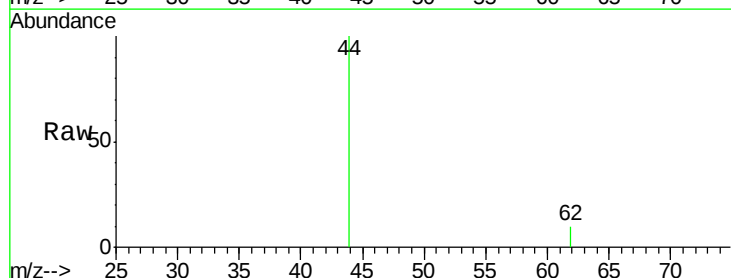
Acq: 26 Jun 2018 20:38

Tgt Ion: 62 Resp: 216

Ion Ratio Lower Upper

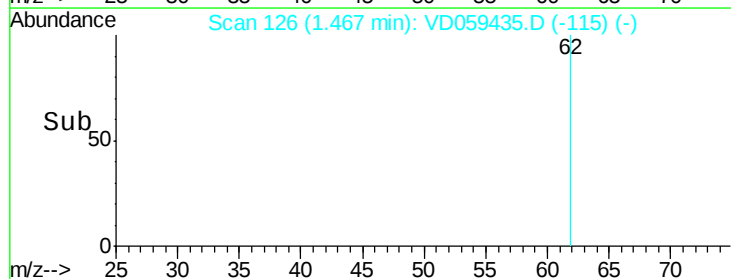
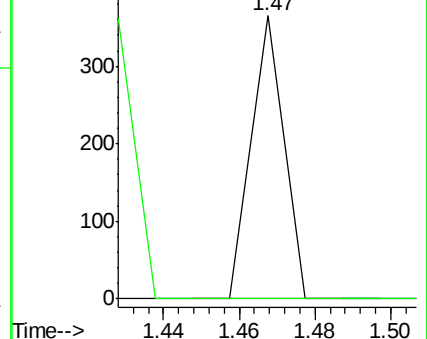
62 100

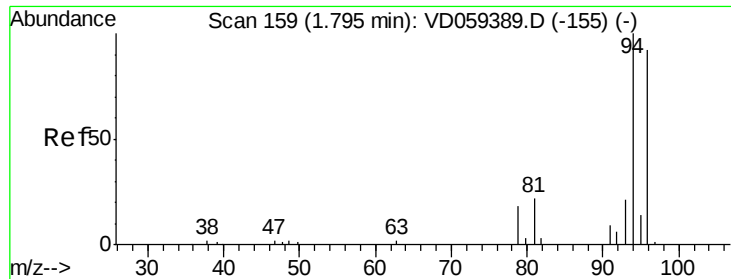
64 0.0 23.0 34.6#



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 38.750 ug/l

RT: 1.83 min Scan# 163

Delta R.T. 0.04 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

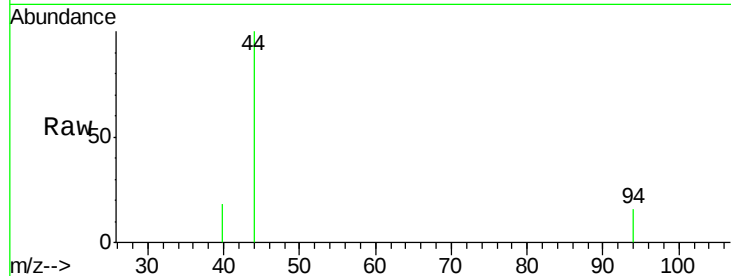
ClientSampleId :

Tot Ion: 94 Resp: 486

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.83

400

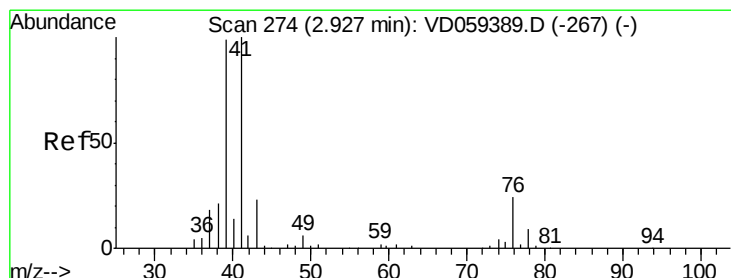
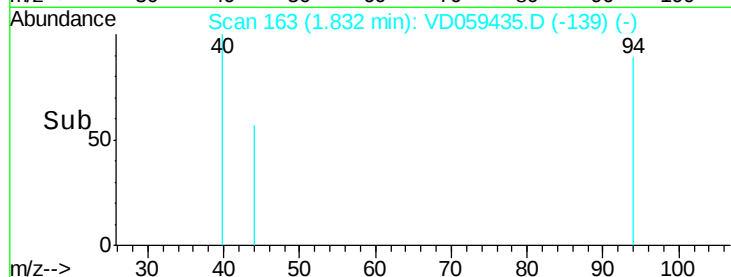
300

200

100

0

Time-->



#14

Allyl chloride

Concen: 3.920 ug/l

RT: 2.89 min Scan# 270

Delta R.T. -0.04 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

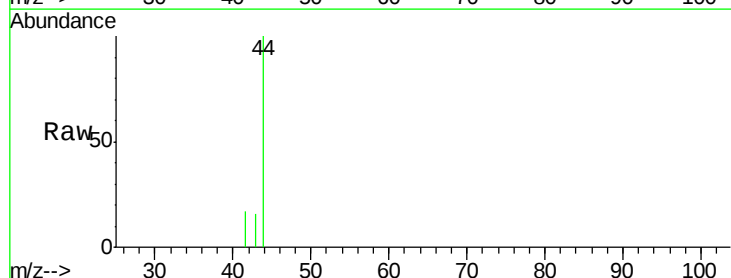
Tgt Ion: 41 Resp: 221

Ion Ratio Lower Upper

41 100

39 0.0 79.1 118.7#

76 0.0 21.9 32.9#



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

600

500

400

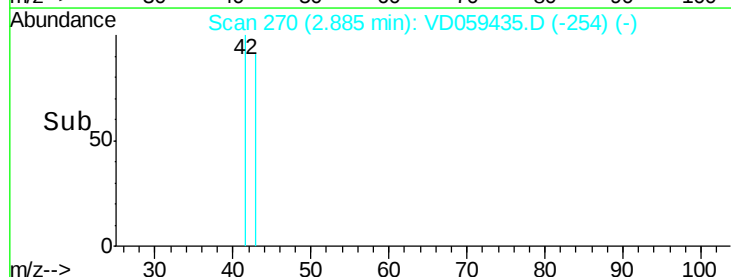
300

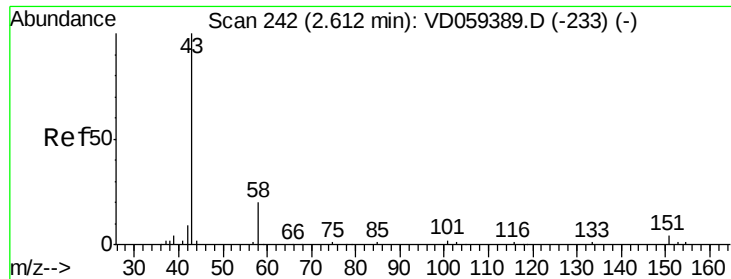
200

100

0

Time-->





#16

Acetone

Concen: 95.463 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.01 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

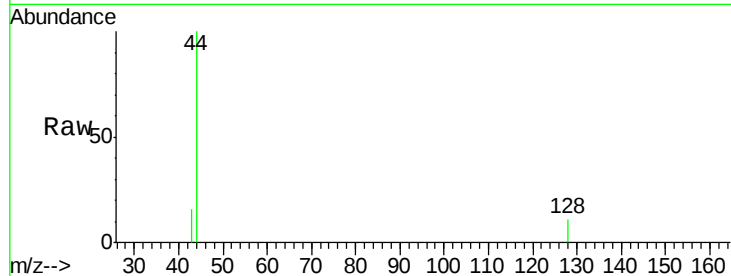
ClientSampled :

Tot Ion: 43 Resp: 921

Ion Ratio Lower Upper

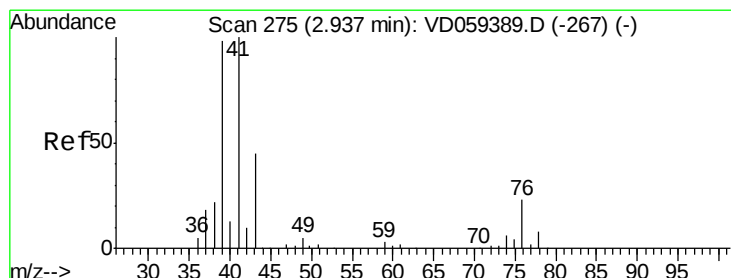
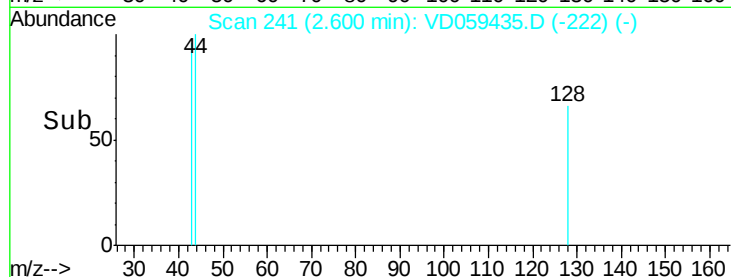
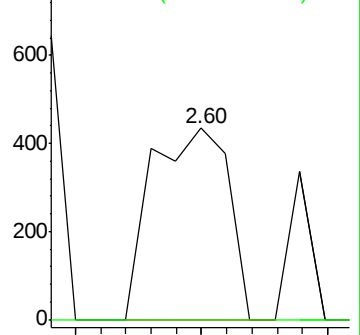
43 100

58 0.0 16.8 25.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 18.066 ug/l

RT: 2.89 min Scan# 271

Delta R.T. -0.04 min

Lab File: VD059435.D

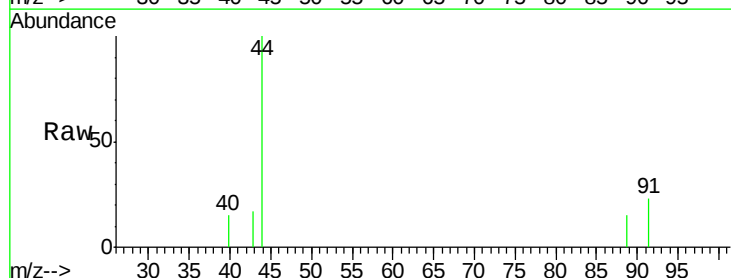
Acq: 26 Jun 2018 20:38

Tgt Ion: 43 Resp: 409

Ion Ratio Lower Upper

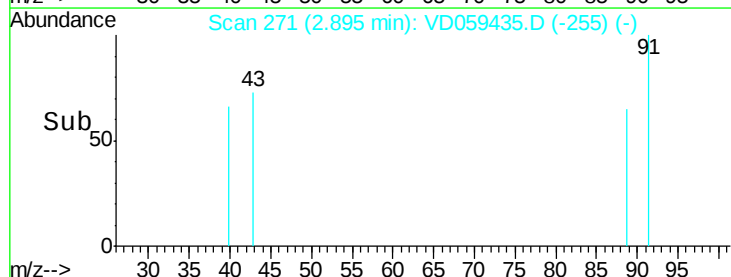
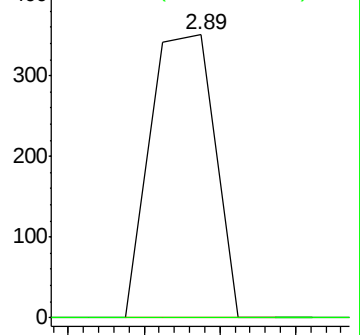
43 100

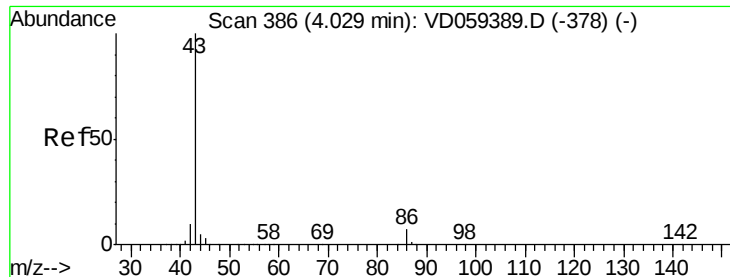
74 0.0 11.0 16.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#23

Vinyl Acetate

Concen: 2.262 ug/l

RT: 4.11 min Scan# 394

Delta R.T. 0.08 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

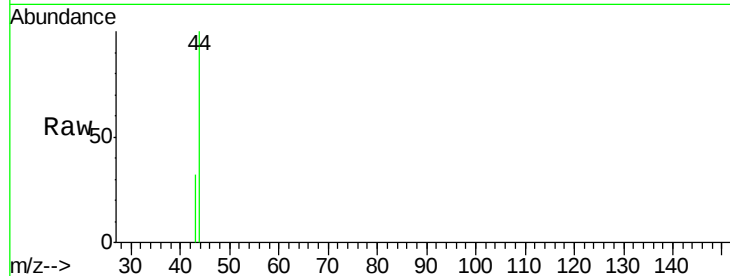
ClientSampleId :

Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

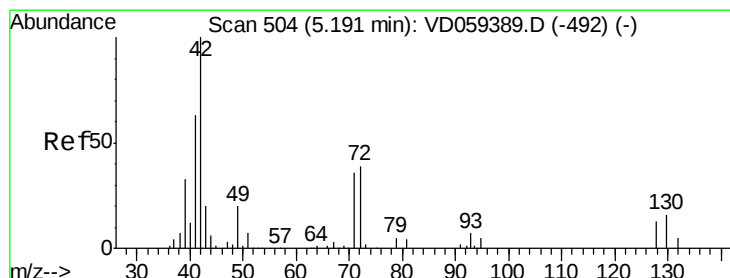
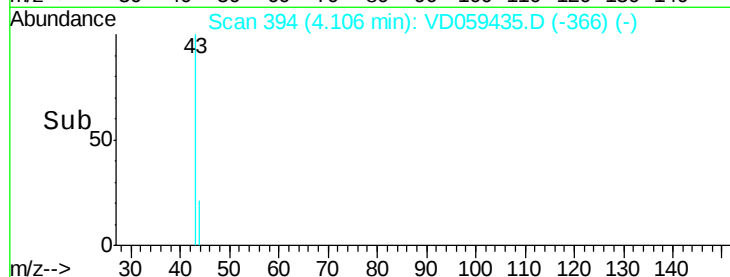
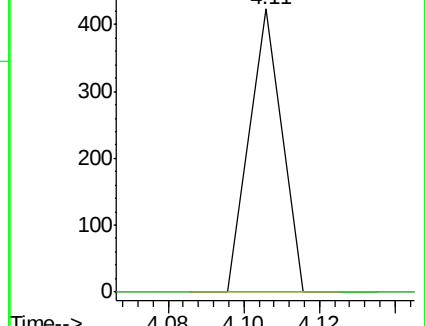
43 100

86 0.0 5.2 7.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#29

Tetrahydrofuran

Concen: 22.253 ug/l

RT: 5.17 min Scan# 502

Delta R.T. -0.02 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

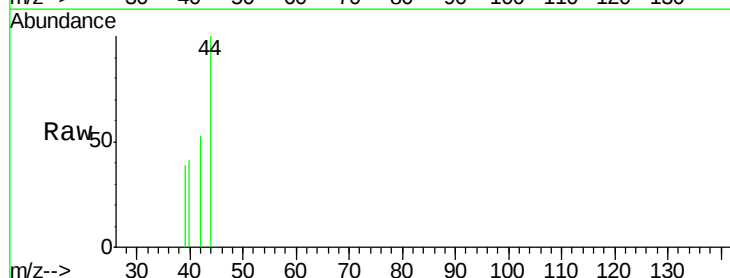
Tgt Ion: 42 Resp: 246

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

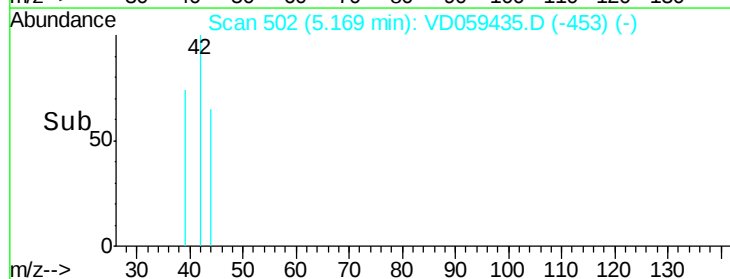
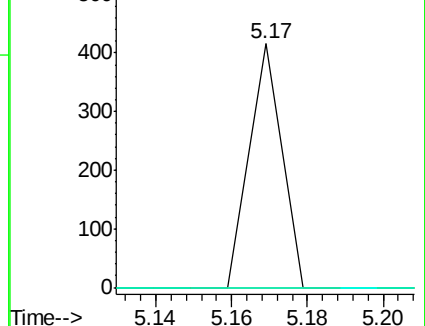
71 0.0 29.7 44.5#

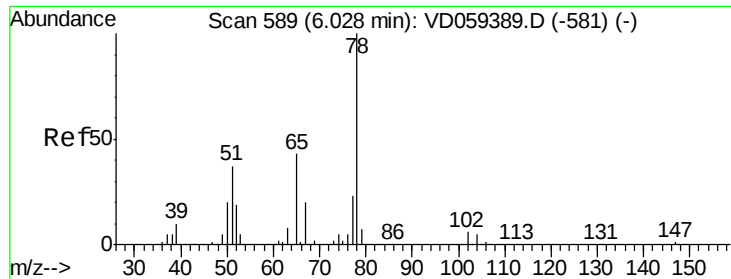


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

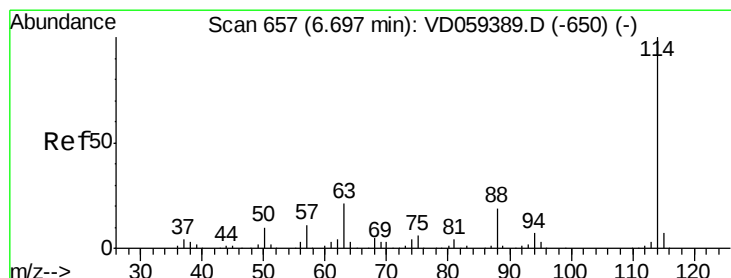
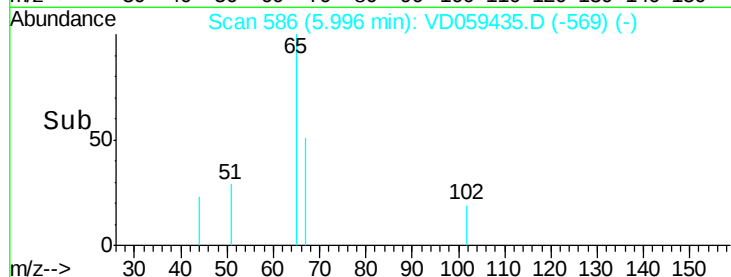
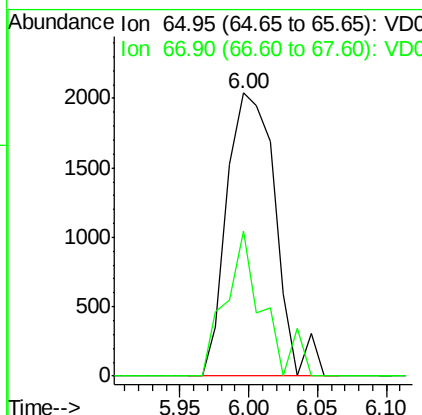
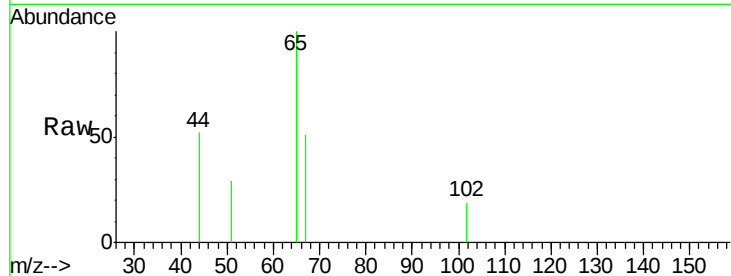




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.00 min Scan# 586
 Delta R.T. -0.03 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

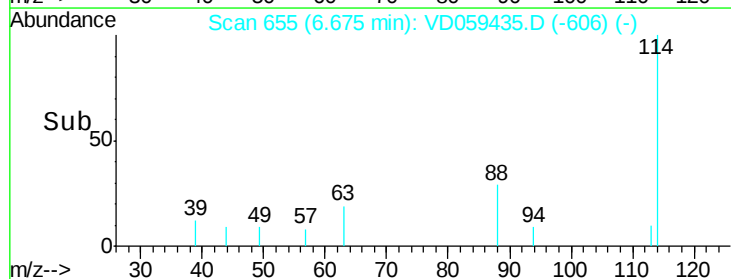
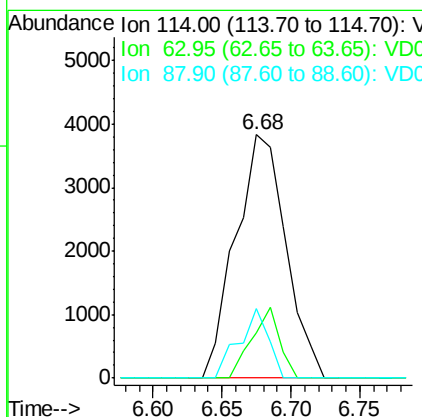
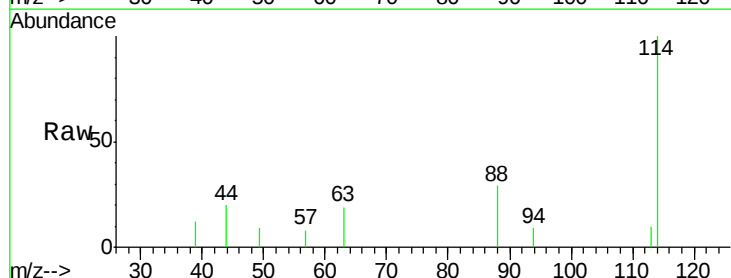
Instrument :
 MSVOA_D
 ClientSampleId :

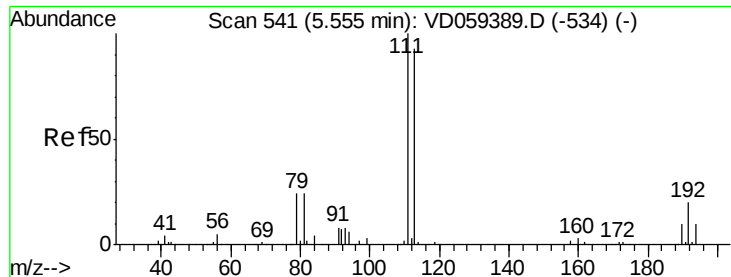
Tot Ion: 65 Resp: 4996
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 93.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.68 min Scan# 655
 Delta R.T. -0.02 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

Tgt Ion: 114 Resp: 9719
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 42.4
 88 28.6 0.0 38.0

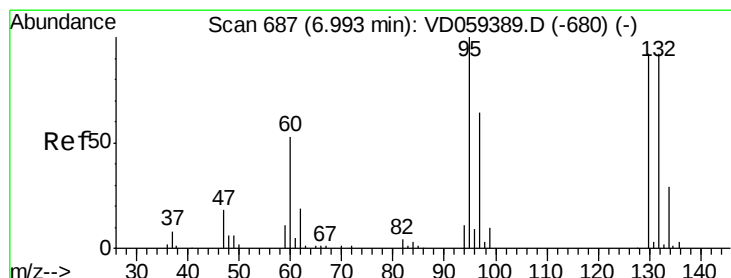
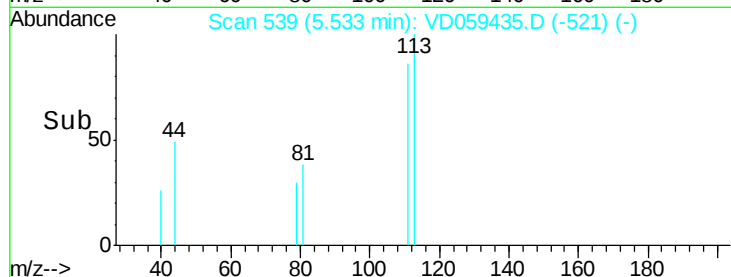
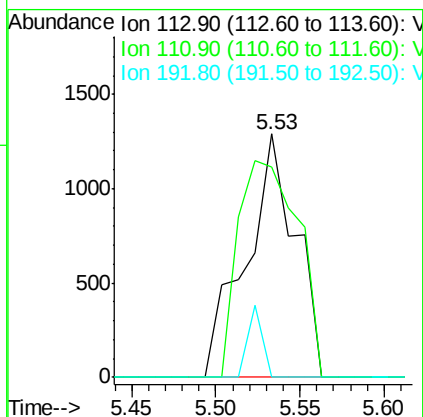
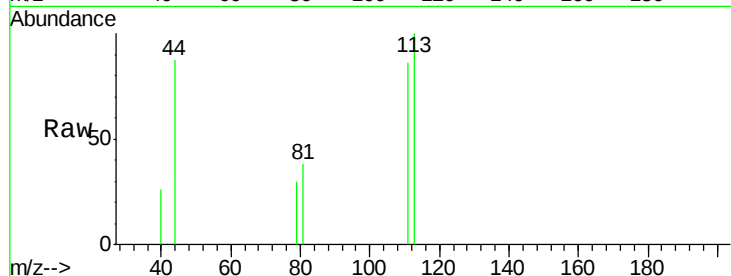




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.53 min Scan# 539
 Delta R.T. -0.02 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

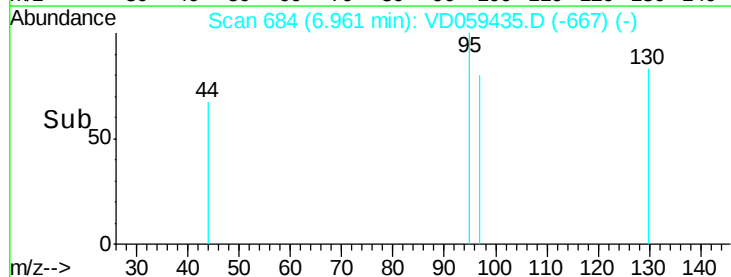
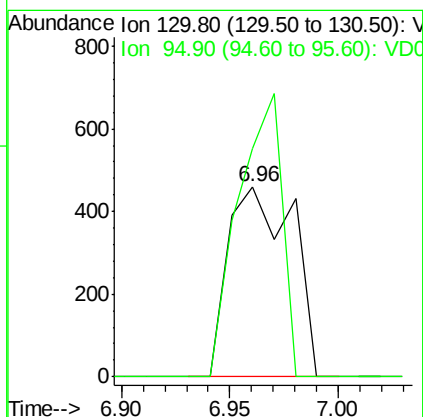
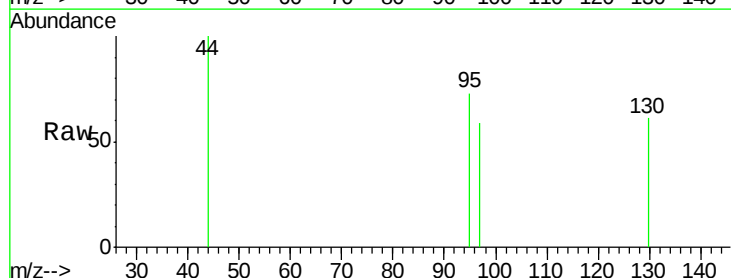
Instrument :
 MSVOA_D
 ClientSampled :

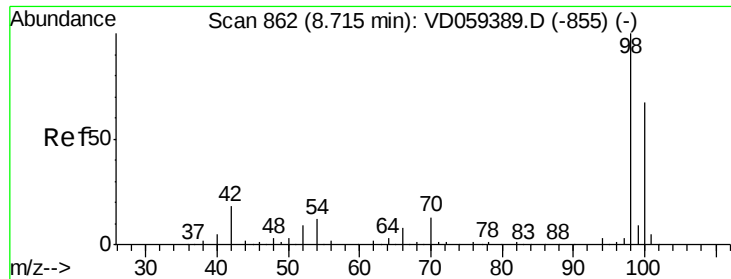
Tot Ion:113 Resp: 2637
 Ion Ratio Lower Upper
 113 100
 111 86.4 85.7 128.5
 192 0.0 16.9 25.3#



#44
 Trichloroethene
 Concen: 13.786 ug/l
 RT: 6.96 min Scan# 684
 Delta R.T. -0.03 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

Tgt Ion:130 Resp: 955
 Ion Ratio Lower Upper
 130 100
 95 120.2 0.0 216.4

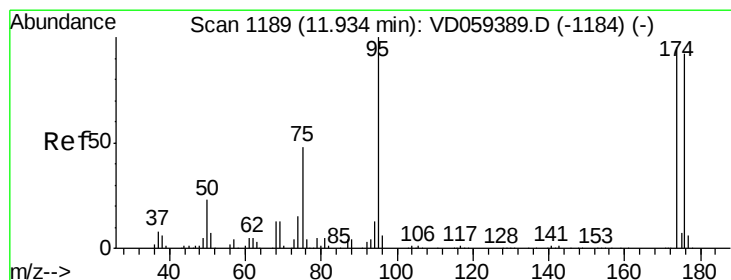
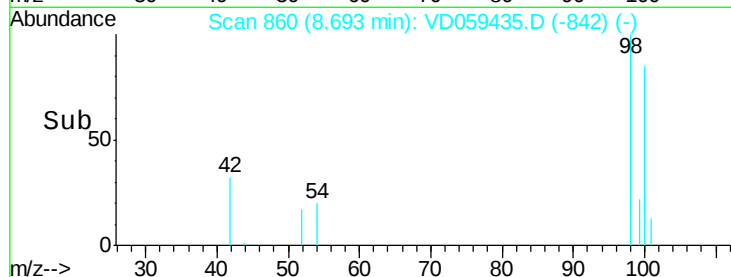
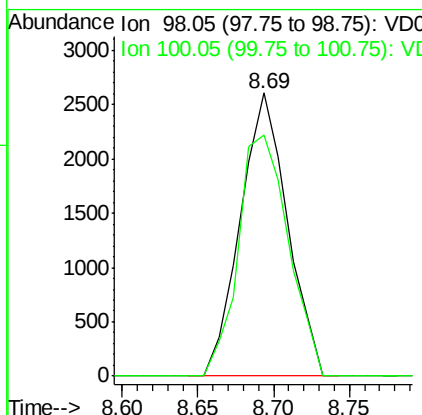
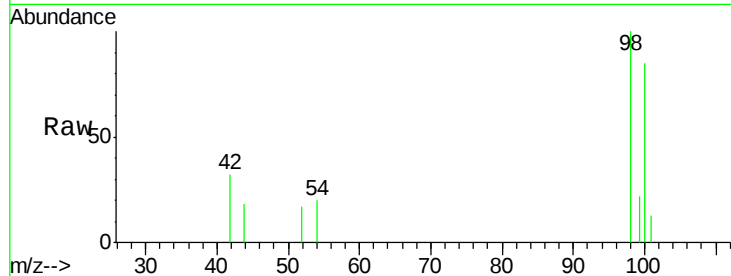




#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.69 min Scan# 860
Delta R.T. -0.02 min
Lab File: VD059435.D
Acq: 26 Jun 2018 20:38

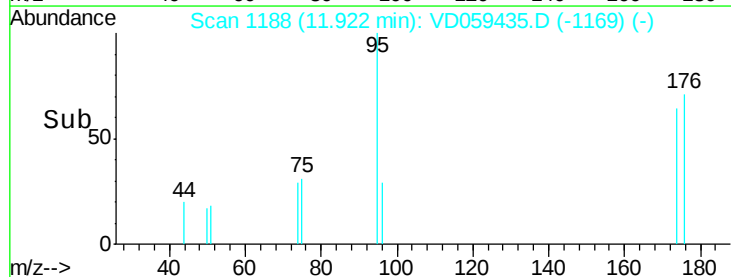
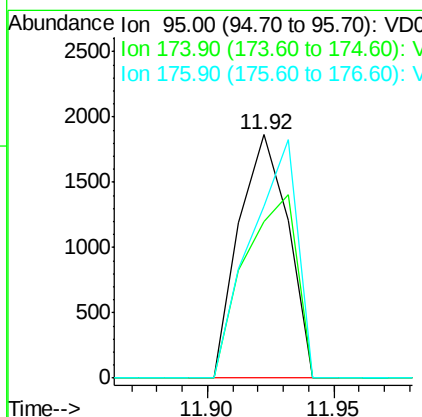
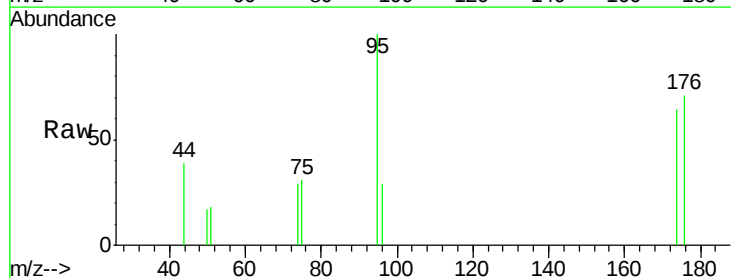
Instrument :
MSVOA_D
ClientSampleId :

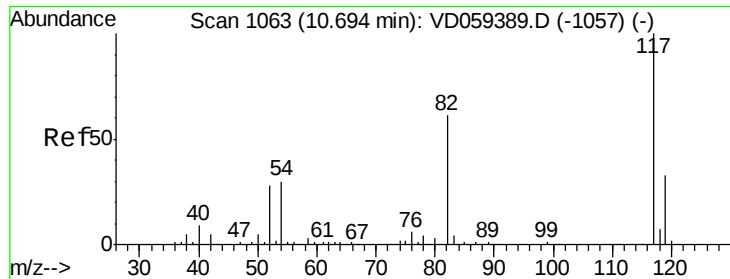
Tot Ion: 98 Resp: 5657
Ion Ratio Lower Upper
98 100
100 85.0 54.4 81.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.92 min Scan# 1188
Delta R.T. -0.01 min
Lab File: VD059435.D
Acq: 26 Jun 2018 20:38

Tgt Ion: 95 Resp: 2522
Ion Ratio Lower Upper
95 100
174 64.3 0.0 190.4
176 70.6 0.0 183.2

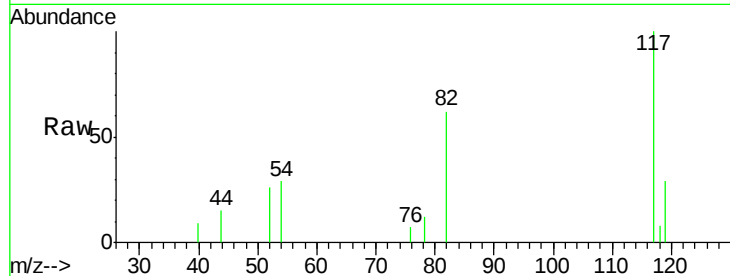




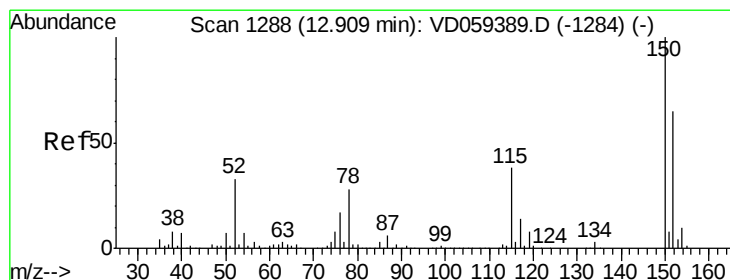
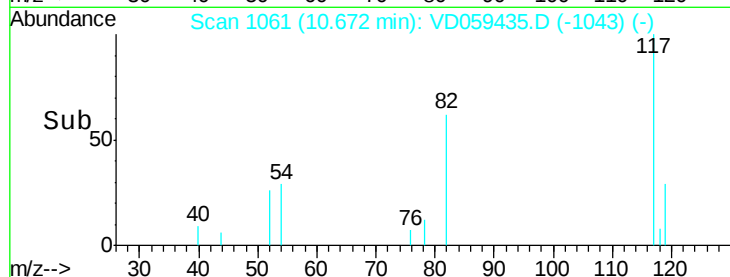
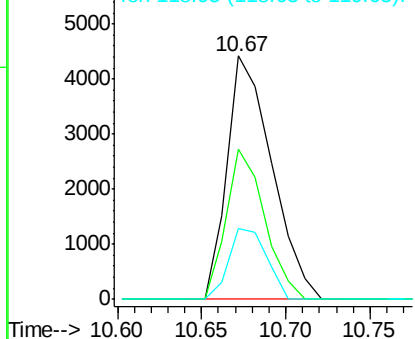
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.67 min Scan# 1061
Delta R.T. -0.02 min
Lab File: VD059435.D
Acq: 26 Jun 2018 20:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 8145
Ion Ratio Lower Upper
117 100
82 61.7 49.0 73.6
119 29.0 26.2 39.4

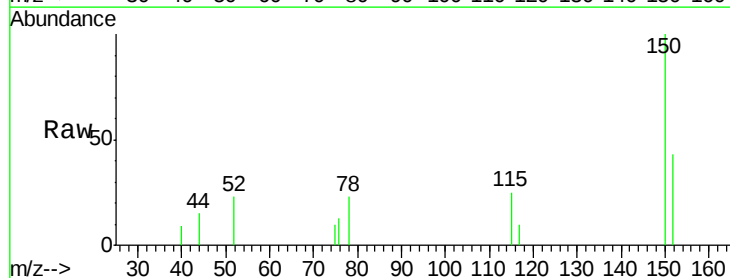


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

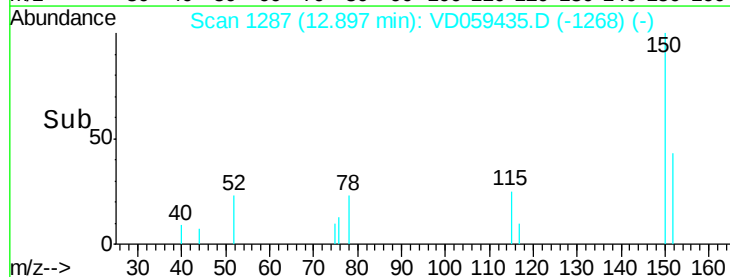
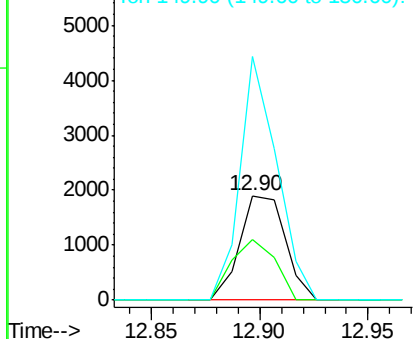


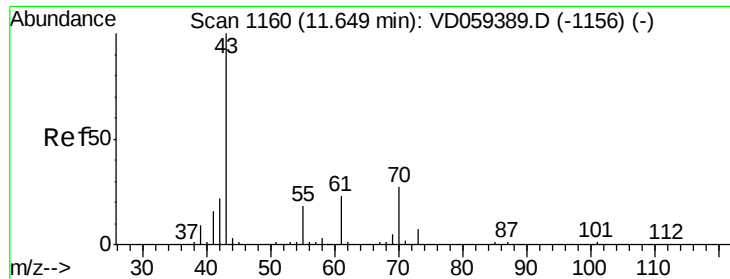
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1287
Delta R.T. -0.01 min
Lab File: VD059435.D
Acq: 26 Jun 2018 20:38

Tgt Ion:152 Resp: 2762
Ion Ratio Lower Upper
152 100
115 58.0 29.4 88.3
150 233.4 0.0 308.2



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





#74

N-amvl acetate

Concen: 3.524 ug/l

RT: 11.74 min Scan# 1169

Delta R.T. 0.09 min

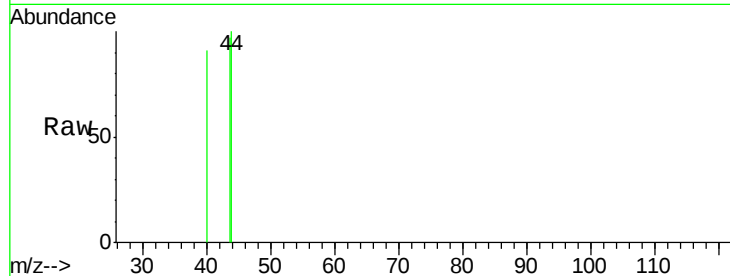
Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

ClientSampled :



Tot Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

70 0.0 21.7 32.5#

55 0.0 14.6 22.0#

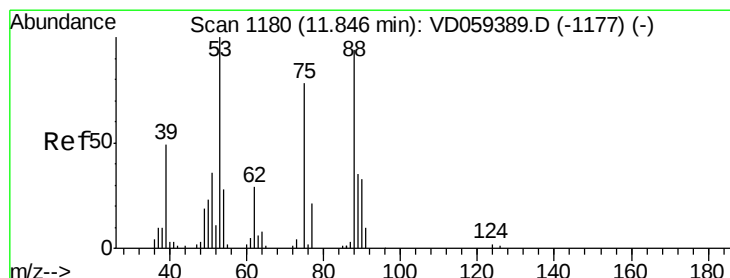
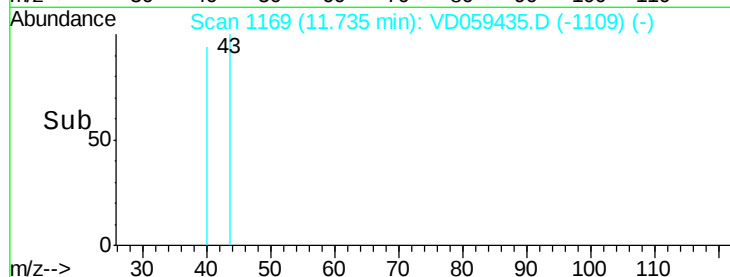
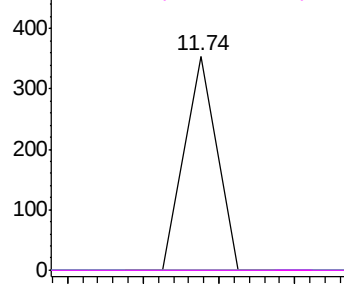
61 0.0 18.0 27.0#

Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 135.001 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Tgt Ion: 75 Resp: 1169

Ion Ratio Lower Upper

75 100

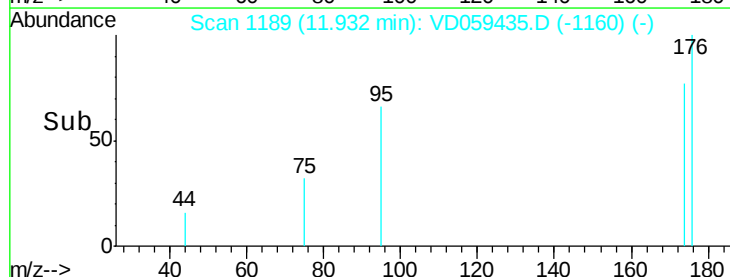
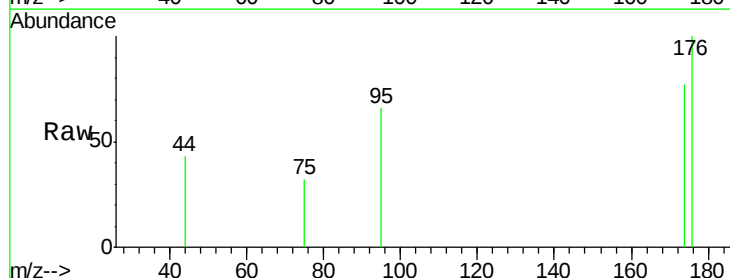
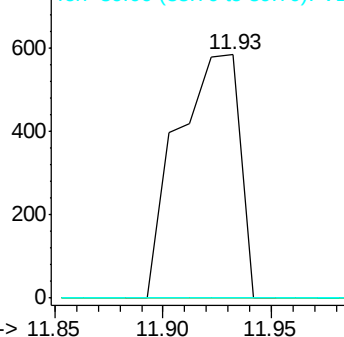
53 0.0 102.6 154.0#

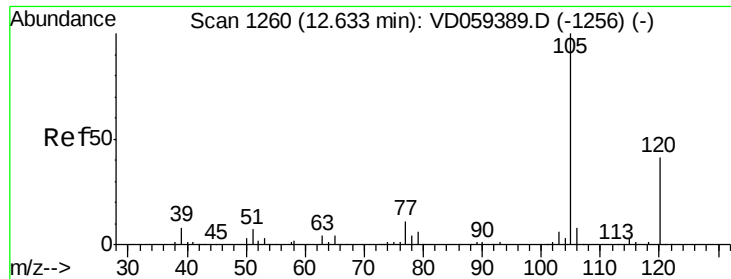
89 0.0 35.9 53.9#

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

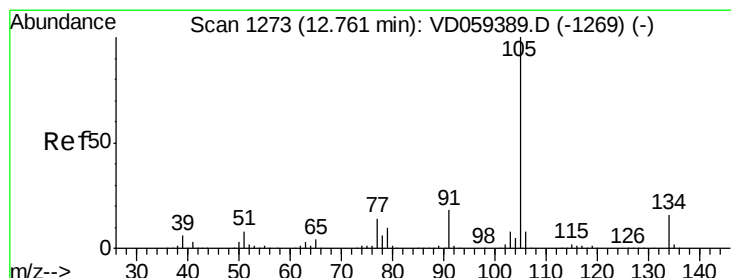
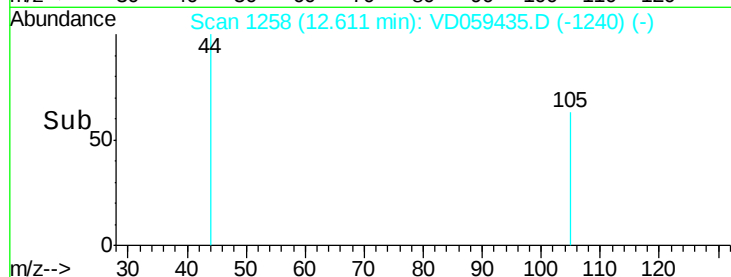
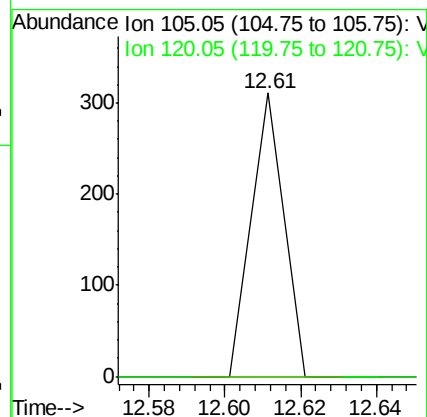
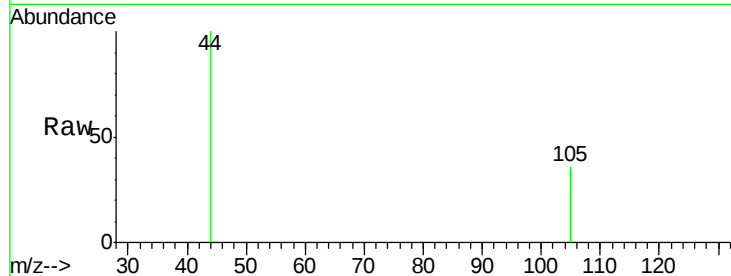




#84
 1,2,4-Trimethylbenzene
 Concen: 1.401 ug/l
 RT: 12.61 min Scan# 1258
 Delta R.T. -0.02 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

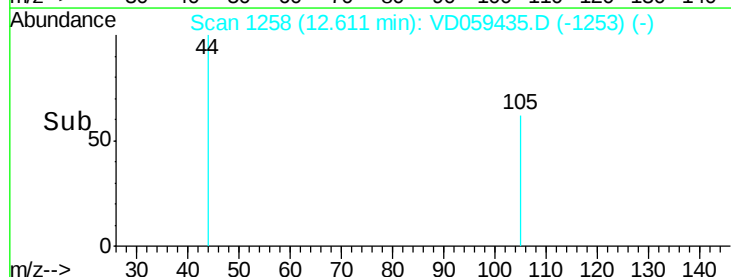
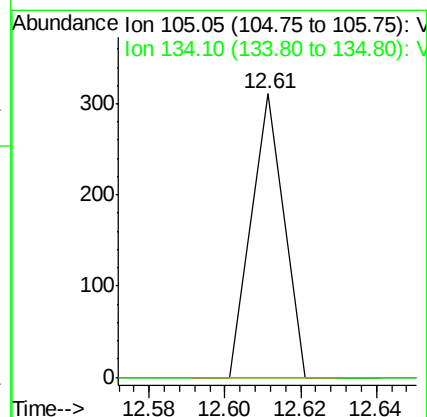
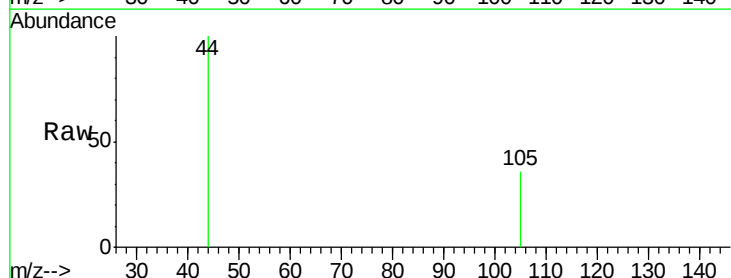
Instrument :
 MSVOA_D
 ClientSampleId :

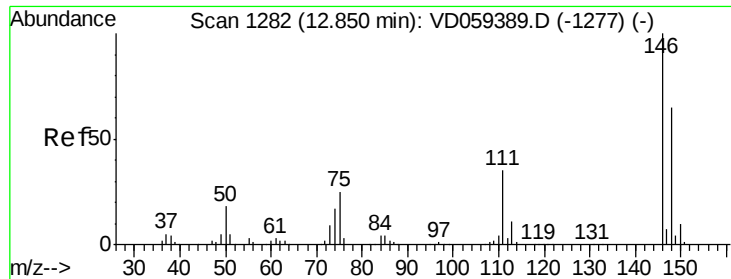
Tot Ion:105 Resp: 184
 Ion Ratio Lower Upper
 105 100
 120 0.0 21.5 64.5#



#85
 sec-Butylbenzene
 Concen: 1.136 ug/l
 RT: 12.61 min Scan# 1258
 Delta R.T. -0.15 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

Tgt Ion:105 Resp: 184
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.2 24.6#

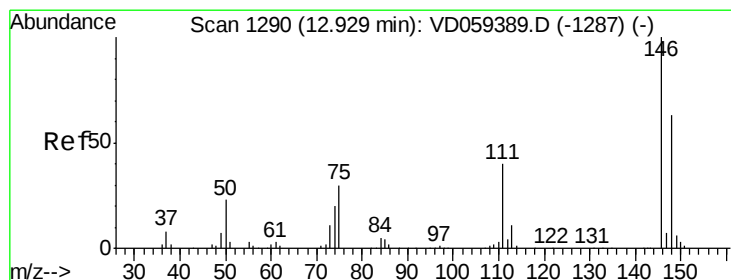
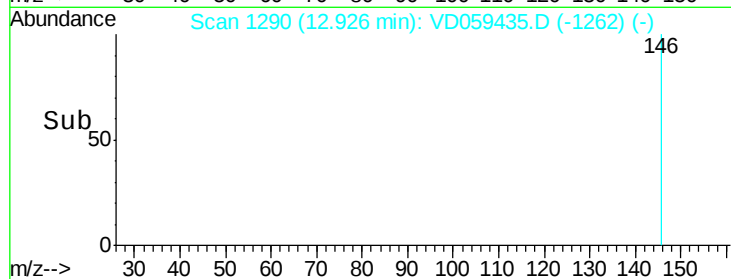
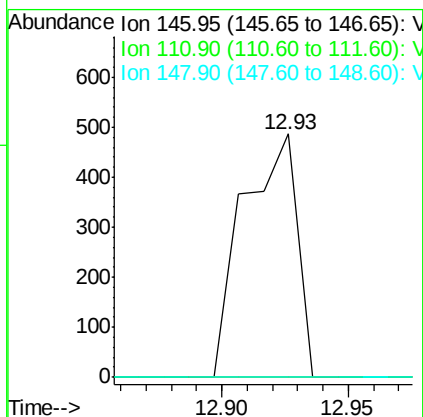
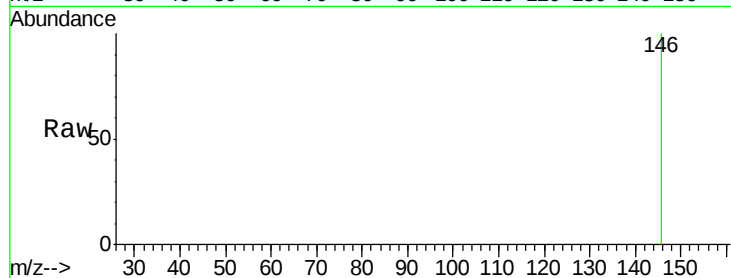




#87
 1,3-Dichlorobenzene
 Concen: 8.971 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. 0.08 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

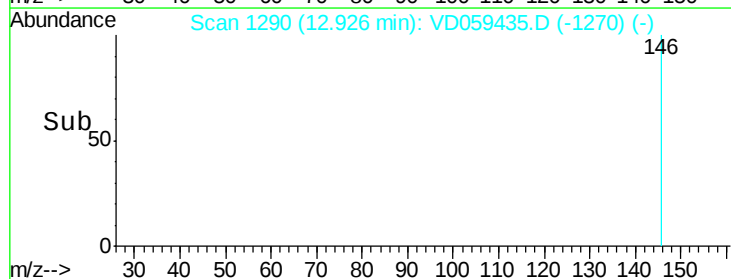
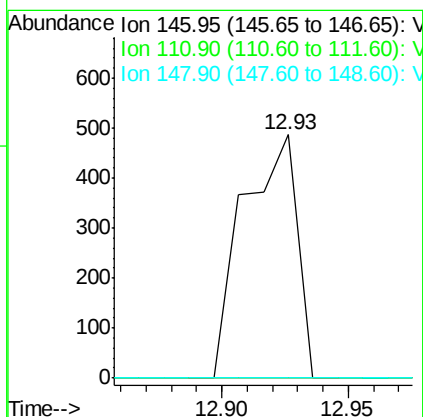
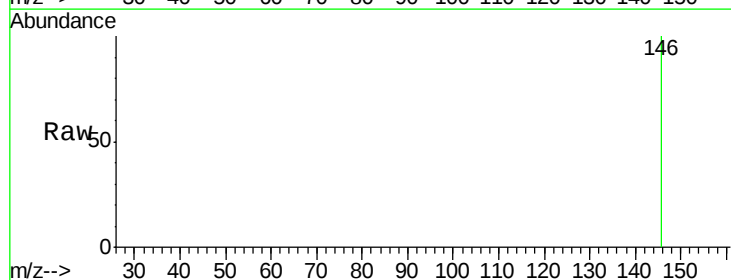
Instrument :
 MSVOA_D
 ClientSampleId :

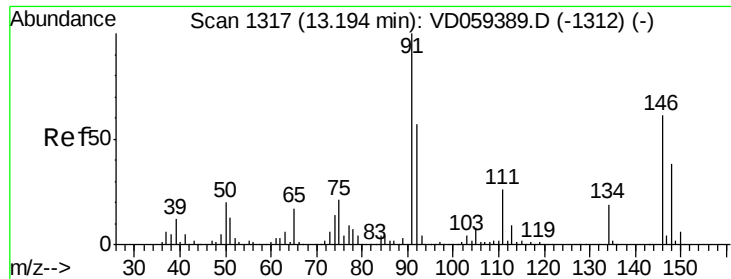
Tot Ion:146 Resp: 724
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.6 52.8#
 148 0.0 32.4 97.2#



#88
 1,4-Dichlorobenzene
 Concen: 9.091 ug/l
 RT: 12.93 min Scan# 1290
 Delta R.T. -0.00 min
 Lab File: VD059435.D
 Acq: 26 Jun 2018 20:38

Tgt Ion:146 Resp: 724
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.1 60.2#
 148 0.0 31.4 94.0#





#91

1,2-Dichlorobenzene

Concen: 10.201 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

Instrument :

MSVOA_D

ClientSampleId :

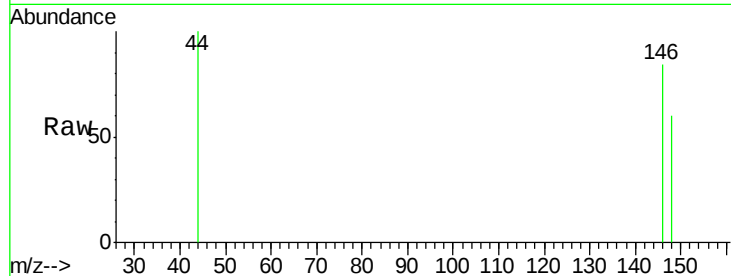
Tot Ion:146 Resp: 698

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

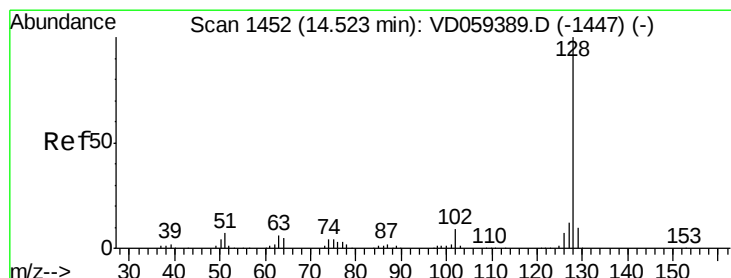
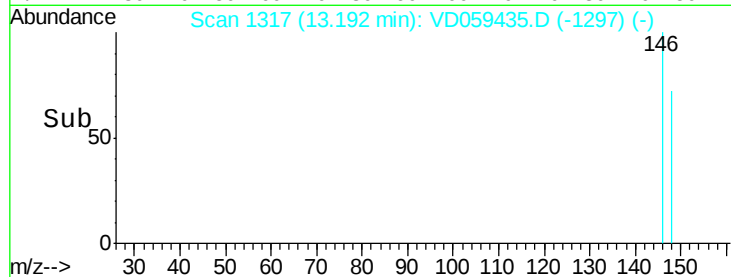
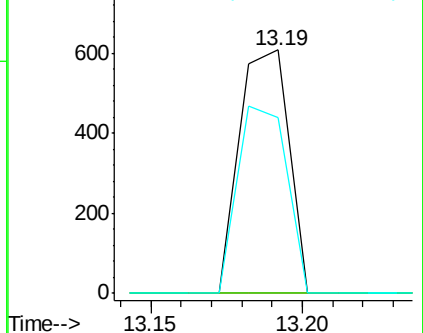
148 72.0 31.6 95.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 6.907 ug/l

RT: 14.51 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VD059435.D

Acq: 26 Jun 2018 20:38

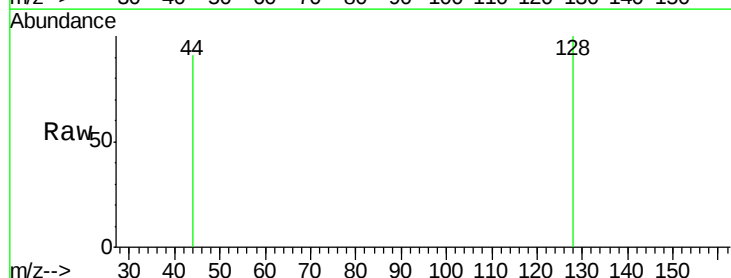
Tgt Ion:128 Resp: 609

Ion Ratio Lower Upper

128 100

127 0.0 9.6 14.4#

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

