

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062818\
 Data File : VD059476.D
 Acq On : 28 Jun 2018 21:35
 Operator : VA/AP
 Sample : J3677-10
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 29 01:29:01 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	5.65	168	22285	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	34939	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.70	117	34757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	19373	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	19352	84.92	ug/l	0.00
Spiked Amount 50.000			Recovery =	169.84%		
35) Dibromofluoromethane	5.55	113	15183	53.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.70%		
50) Toluene-d8	8.71	98	24354	36.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	73.22%		
62) 4-Bromofluorobenzene	11.94	95	13448	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.20%		

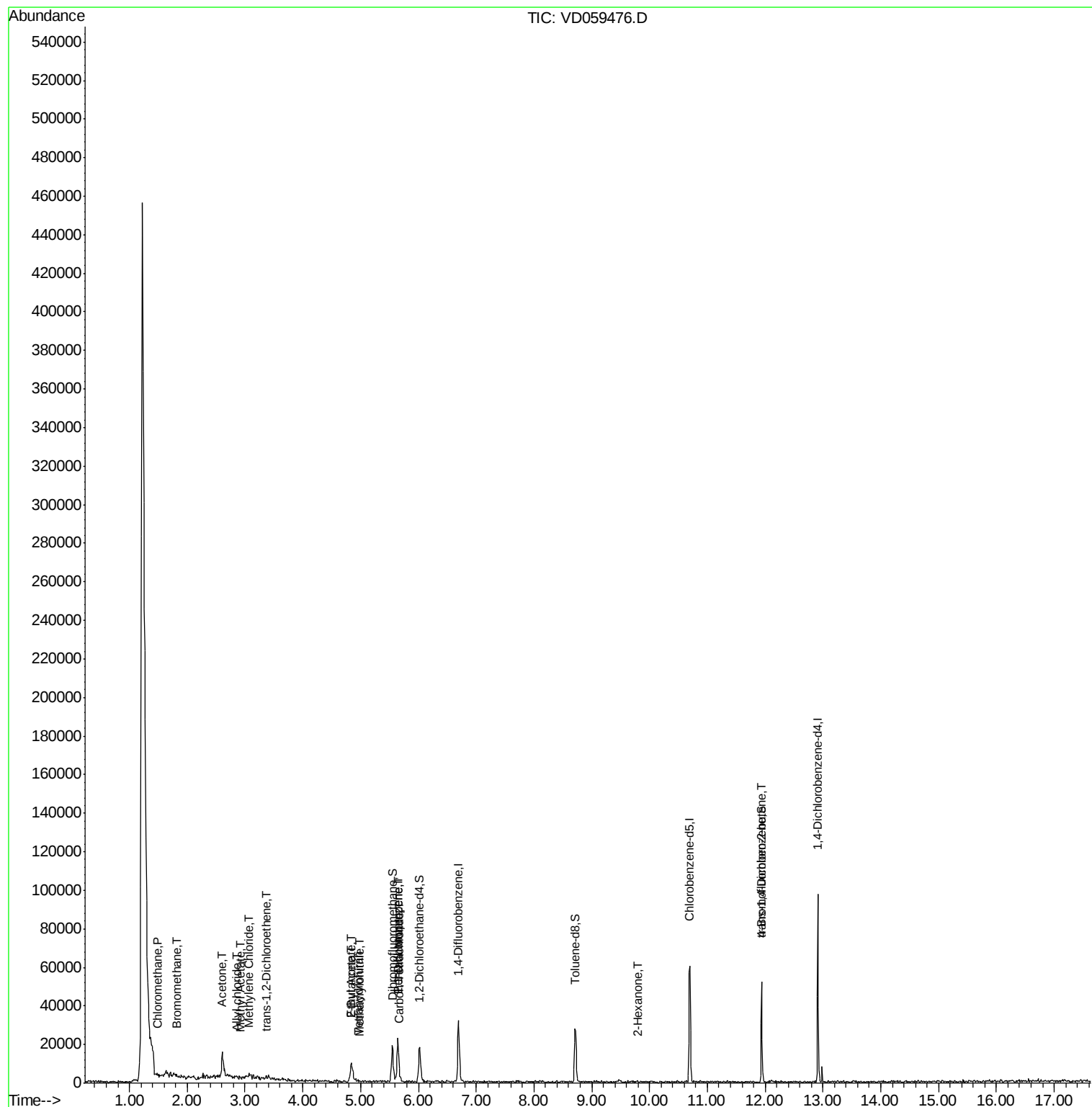
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.48	50	225	2.181	ug/l #	48
5) Bromomethane	1.83	94	190	2.150	ug/l #	4
14) Allyl chloride	2.85	41	299	1.779	ug/l #	85
16) Acetone	2.61	43	26381	917.202	ug/l #	85
18) Methyl Acetate	2.93	43	395	1.782	ug/l #	66
20) Methylene Chloride	3.07	84	1032	10.991	ug/l #	69
21) trans-1,2-Dichloroethene	3.36	96	178	1.371	ug/l #	1
25) 2-Butanone	4.84	43	11109	184.376	ug/l	100
29) Tetrahydrofuran	4.96	42	207	6.281	ug/l #	37
31) Cyclohexane	5.64	56	500	Below Cal	#	1
36) 1,1-Dichloropropene	5.64	75	1635	5.159	ug/l #	44
37) Ethyl Acetate	4.84	43	11109	57.554	ug/l #	69
38) Carbon Tetrachloride	5.68	117	475	1.454	ug/l #	12
41) Methacrylonitrile	4.98	41	178	1.915	ug/l #	32
59) 2-Hexanone	9.79	43	188	1.638	ug/l #	30
81) trans-1,4-Dichloro-2-buten	11.94	75	6236	102.672	ug/l #	1

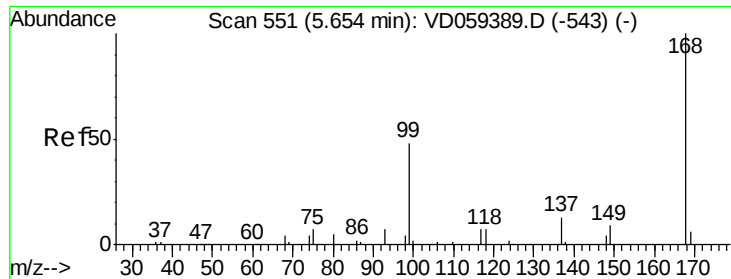
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.65 min Scan# 551

Delta R.T. -0.01 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

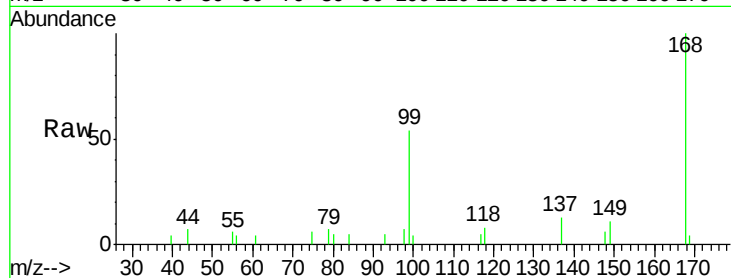
ClientSampleId :

Tot Ion:168 Resp: 22285

Ion Ratio Lower Upper

168 100

99 54.5 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

8000

6000

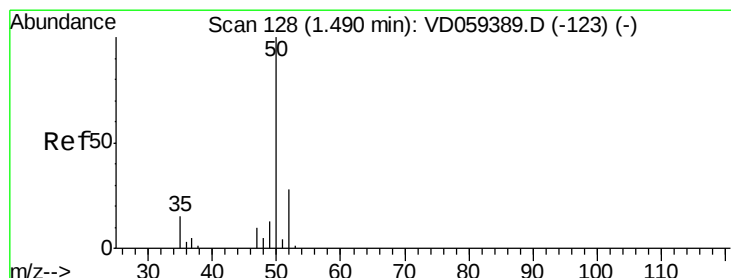
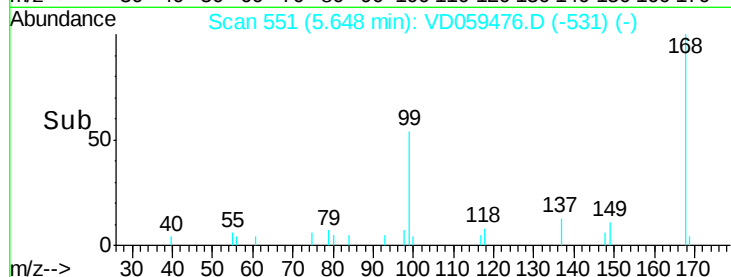
4000

2000

0

5.60 5.70

Time-->



#3

Chloromethane

Concen: 2.181 ug/l

RT: 1.48 min Scan# 128

Delta R.T. -0.01 min

Lab File: VD059476.D

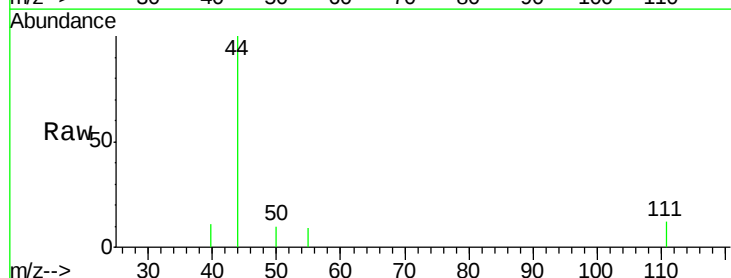
Acq: 28 Jun 2018 21:35

Tgt Ion: 50 Resp: 225

Ion Ratio Lower Upper

50 100

52 0.0 21.8 32.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.48

400

300

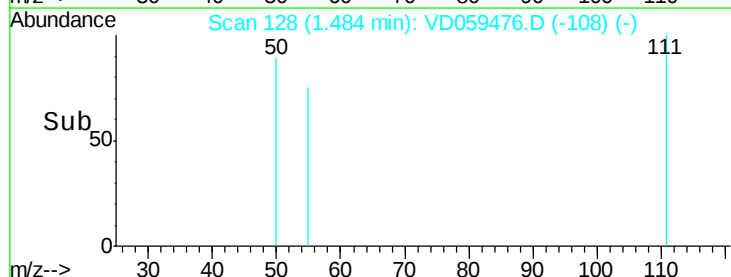
200

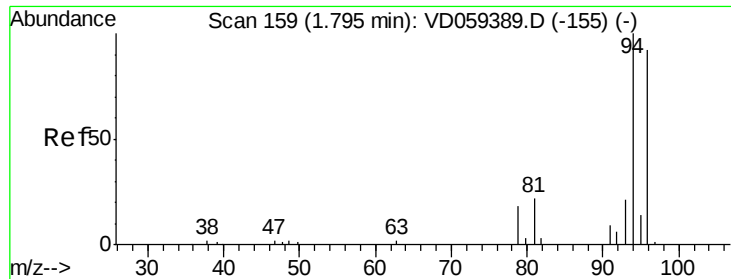
100

0

1.46 1.48 1.50

Time-->





#5

Bromomethane

Concen: 2.150 ug/l

RT: 1.83 min Scan# 163

Delta R.T. 0.03 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

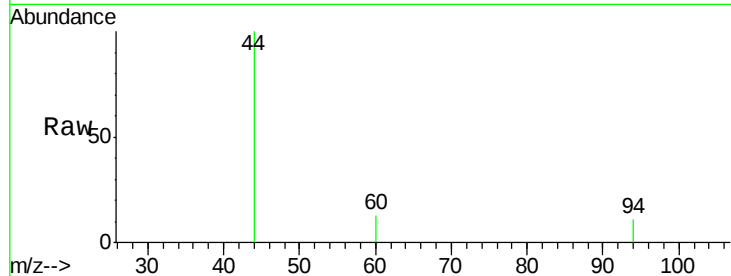
ClientSampleId :

Tot Ion: 94 Resp: 190

Ion Ratio Lower Upper

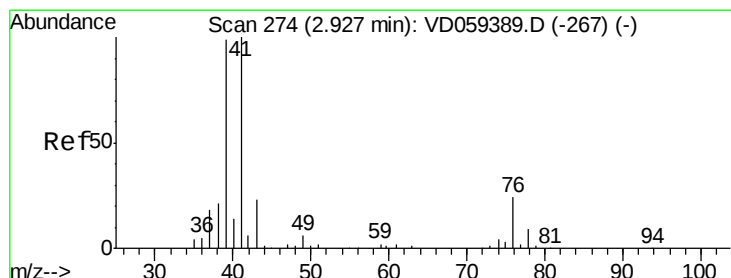
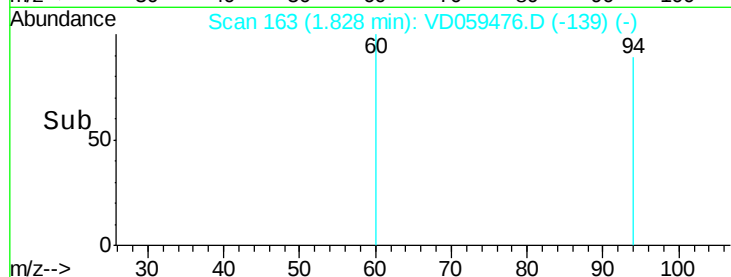
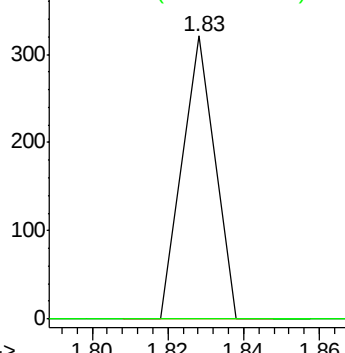
94 100

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



#14

Allyl chloride

Concen: 1.779 ug/l

RT: 2.85 min Scan# 267

Delta R.T. -0.07 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

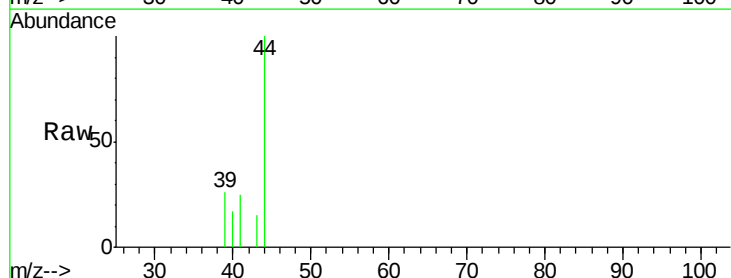
Tgt Ion: 41 Resp: 299

Ion Ratio Lower Upper

41 100

39 104.0 79.1 118.7

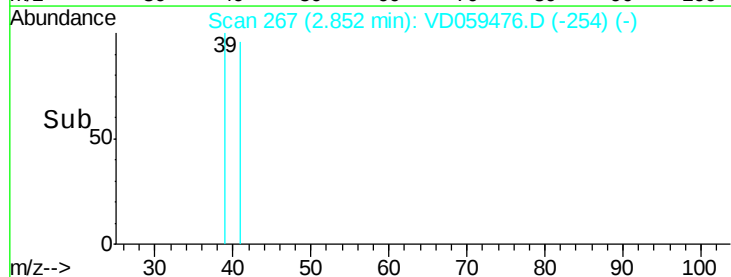
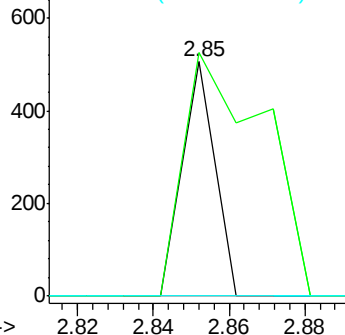
76 0.0 21.9 32.9#

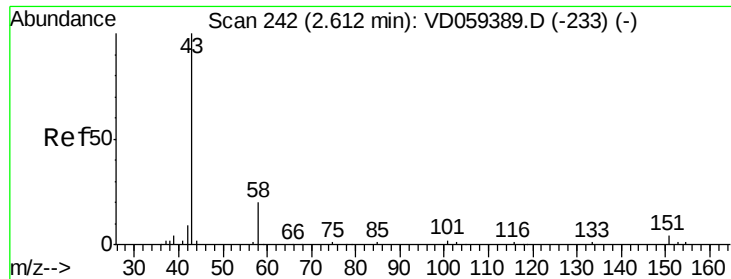


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

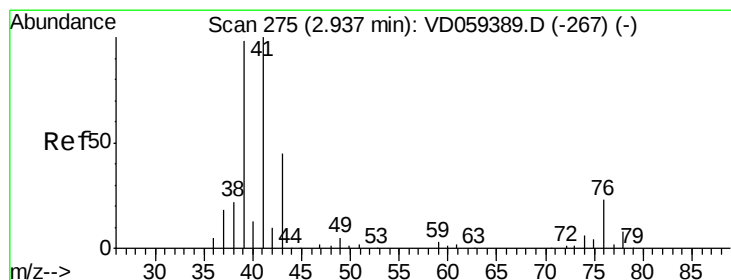
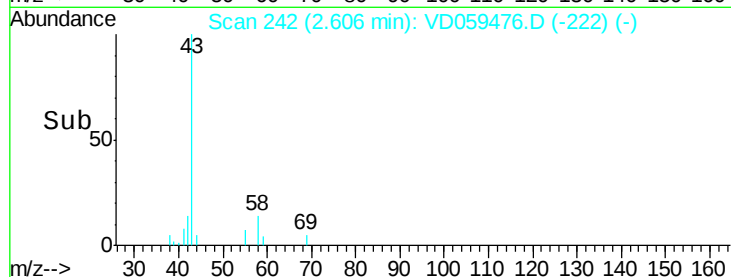
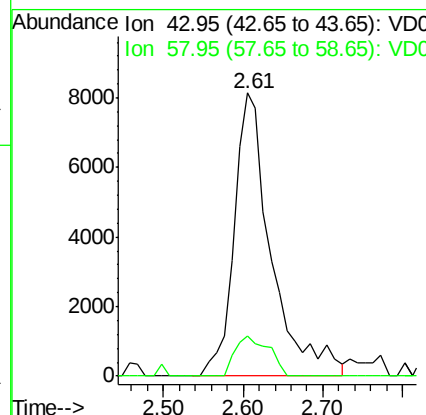
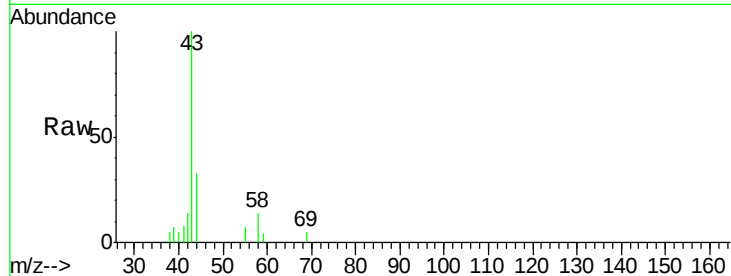




#16
Acetone
Concen: 917.202 ug/l
RT: 2.61 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

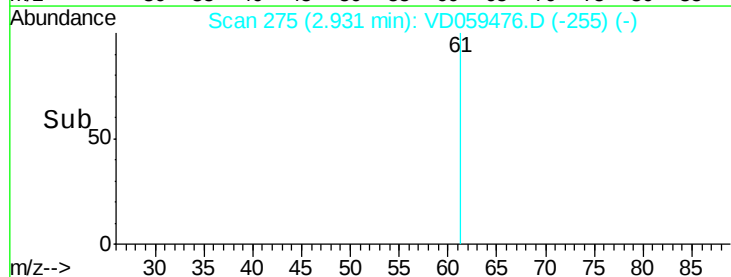
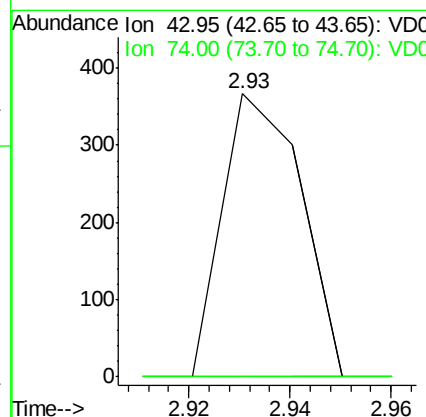
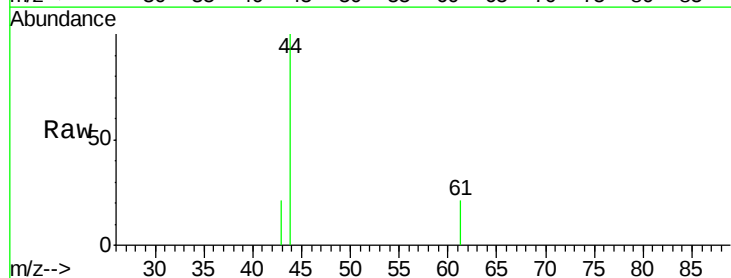
Instrument :
MSVOA_D
ClientSampleId :

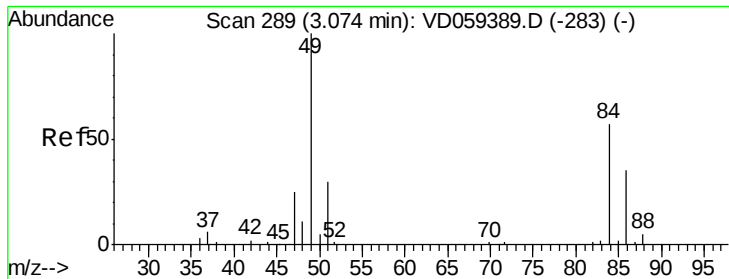
Tot Ion: 43 Resp: 26381
Ion Ratio Lower Upper
43 100
58 14.1 16.8 25.2#



#18
Methyl Acetate
Concen: 1.782 ug/l
RT: 2.93 min Scan# 275
Delta R.T. -0.01 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

Tgt Ion: 43 Resp: 395
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.4#





#20

Methylene Chloride

Concen: 10.991 ug/l

RT: 3.07 min Scan# 289

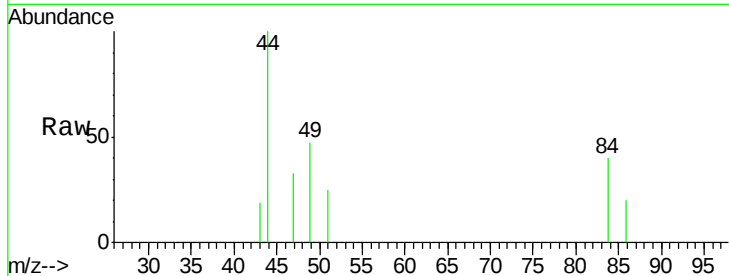
Delta R.T. -0.01 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	84	Resp:	1032
Ion	Ratio	Lower	Upper
84	100		
49	117.6	140.3	210.5#
51	61.7	41.6	62.4
86	50.7	49.4	74.2

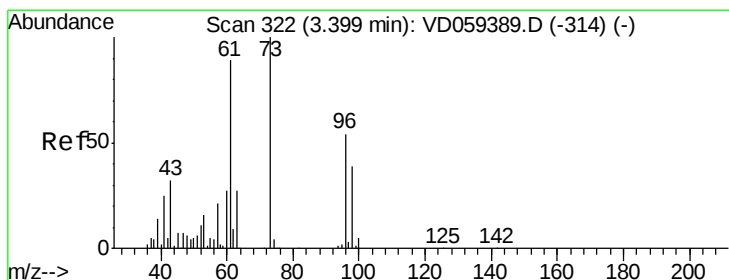
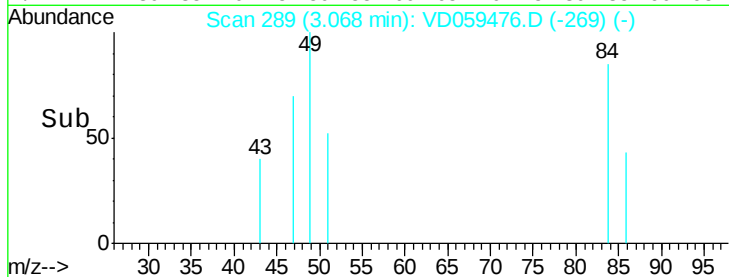
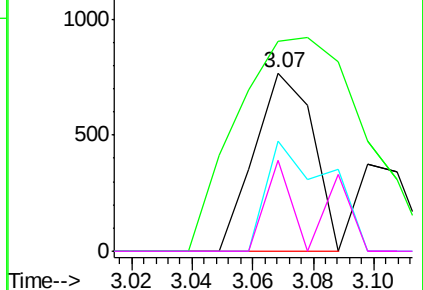


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#21

trans-1,2-Dichloroethene

Concen: 1.371 ug/l

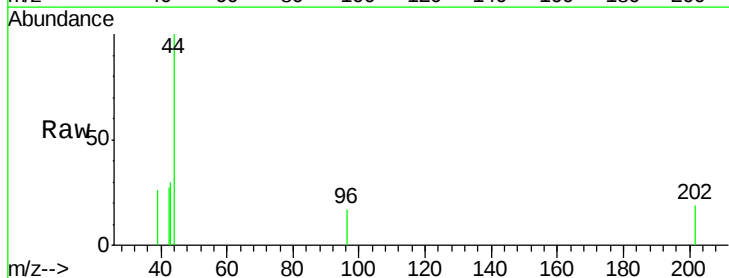
RT: 3.36 min Scan# 319

Delta R.T. -0.04 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

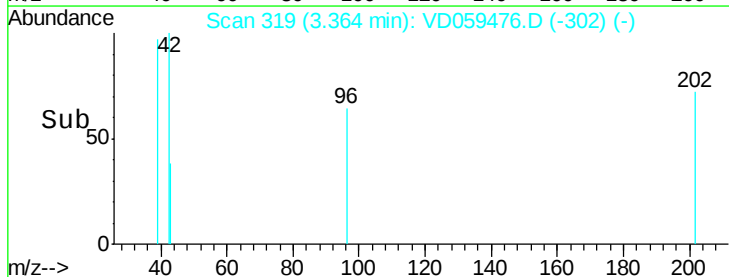
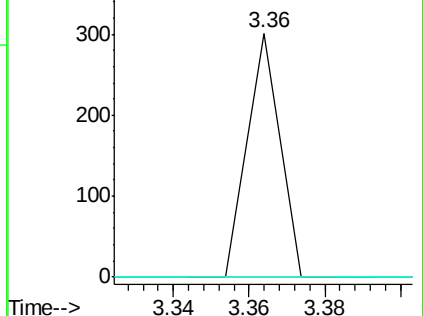
Tgt Ion:	96	Resp:	178
Ion	Ratio	Lower	Upper
96	100		
61	0.0	131.0	196.4#
98	0.0	56.8	85.2#

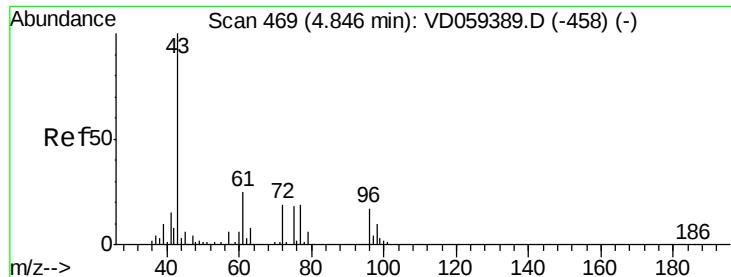


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#25

2-Butanone

Concen: 184.376 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.01 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

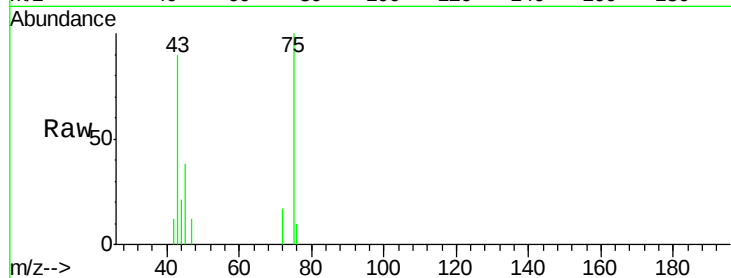
ClientSampleId :

Tot Ion: 43 Resp: 11109

Ion Ratio Lower Upper

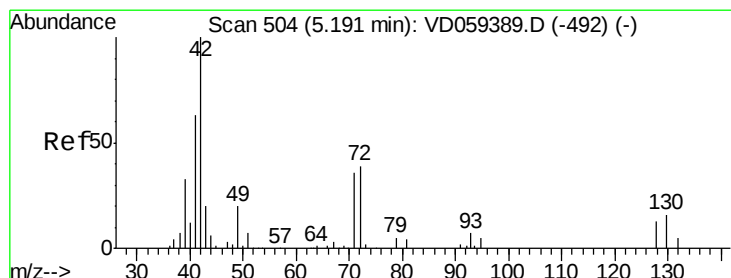
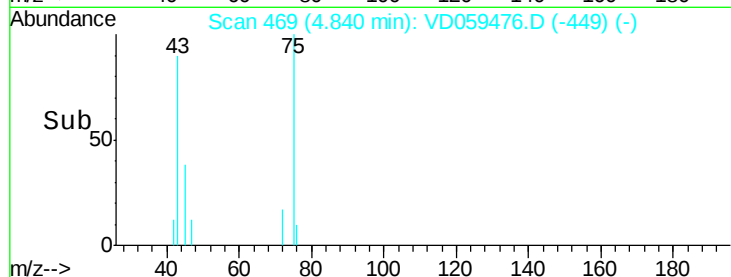
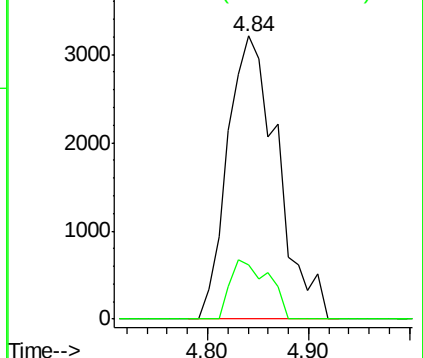
43 100

72 19.4 15.4 23.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 6.281 ug/l

RT: 4.96 min Scan# 481

Delta R.T. -0.23 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

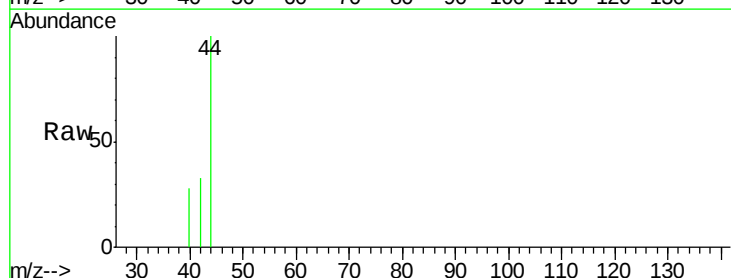
Tgt Ion: 42 Resp: 207

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.2#

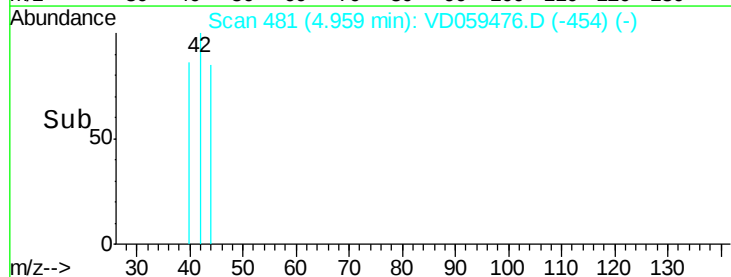
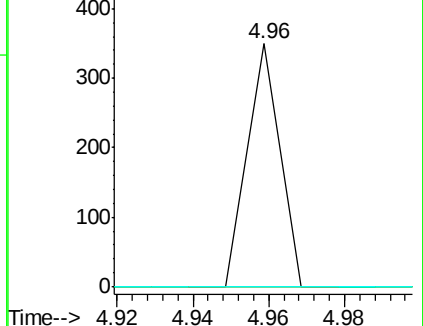
71 0.0 29.7 44.5#

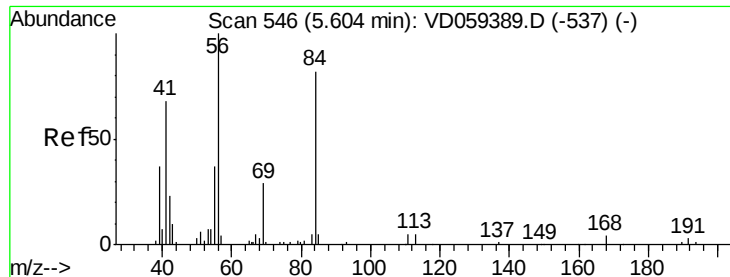


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 5.64 min Scan# 550

Delta R.T. 0.03 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

ClientSampleId :

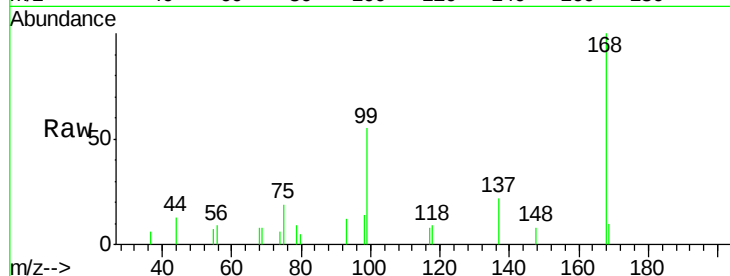
Tot Ion: 56 Resp: 500

Ion Ratio Lower Upper

56 100

69 92.6 22.9 34.3#

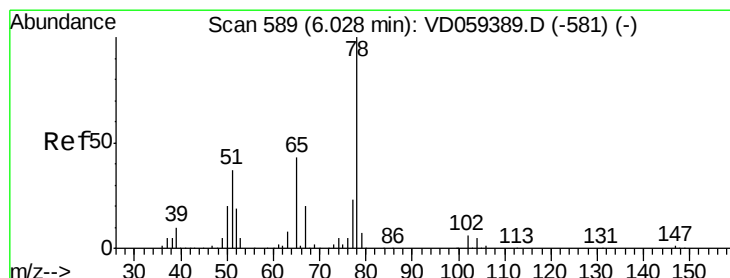
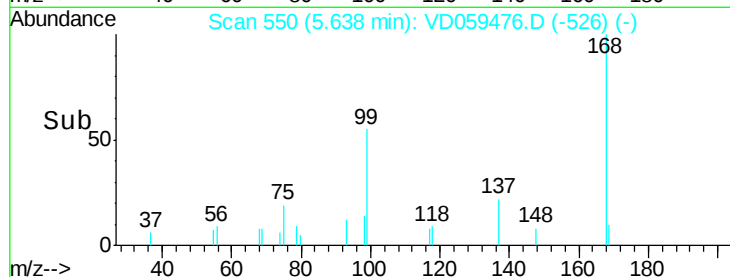
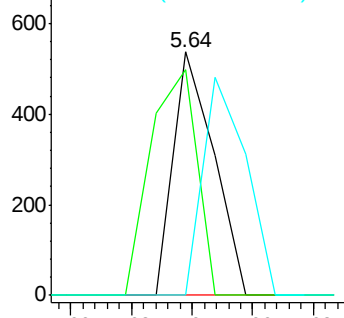
84 0.0 67.3 100.9#



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: 6.03 min Scan# 590

Delta R.T. 0.00 min

Lab File: VD059476.D

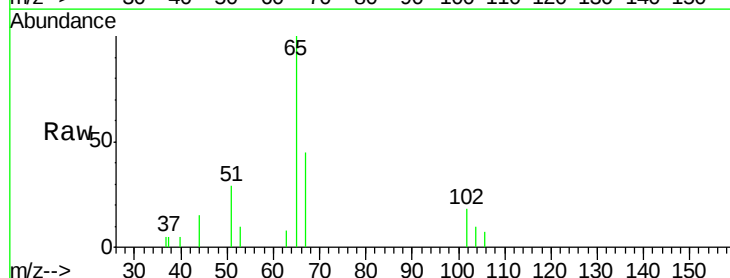
Acq: 28 Jun 2018 21:35

Tgt Ion: 65 Resp: 19352

Ion Ratio Lower Upper

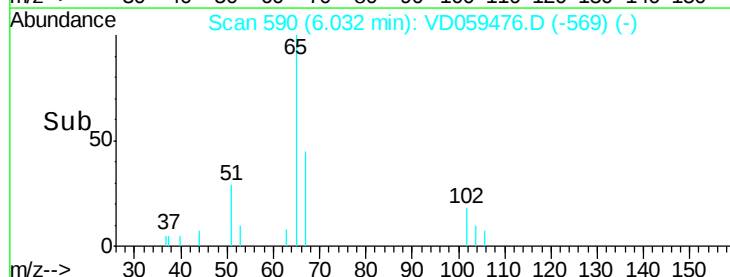
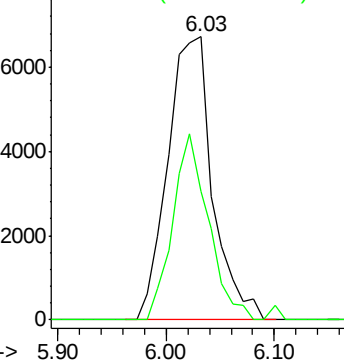
65 100

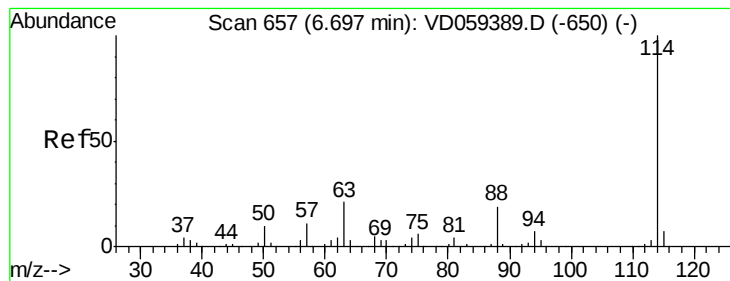
67 45.3 0.0 93.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.69 min Scan# 657

Delta R.T. -0.01 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

ClientSampleId :

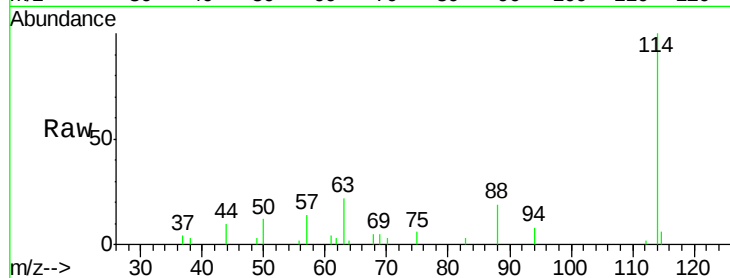
Tot Ion:114 Resp: 34939

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

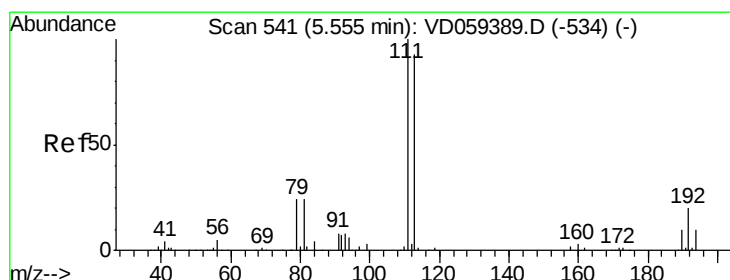
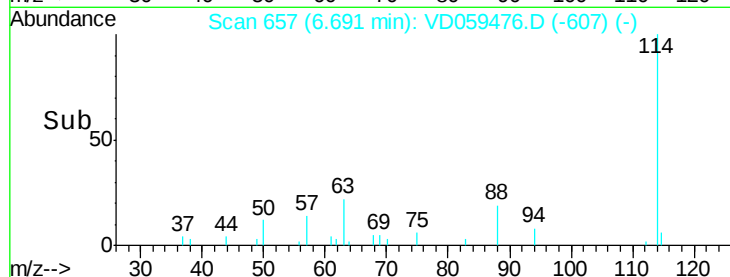
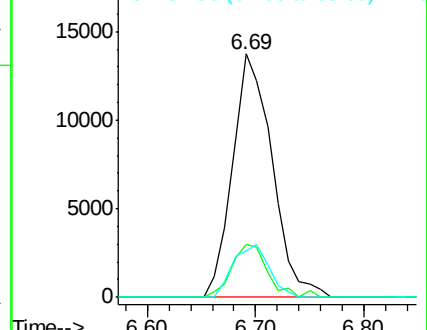
88 19.1 0.0 38.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.01 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

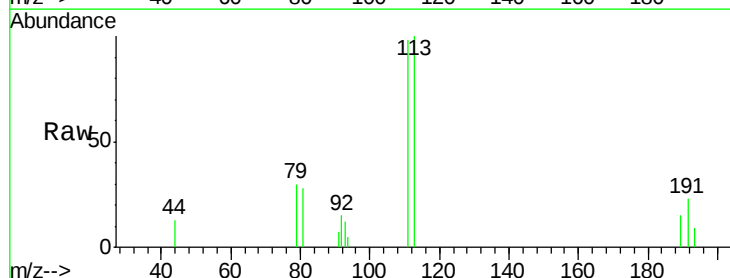
Tgt Ion:113 Resp: 15183

Ion Ratio Lower Upper

113 100

111 98.3 85.7 128.5

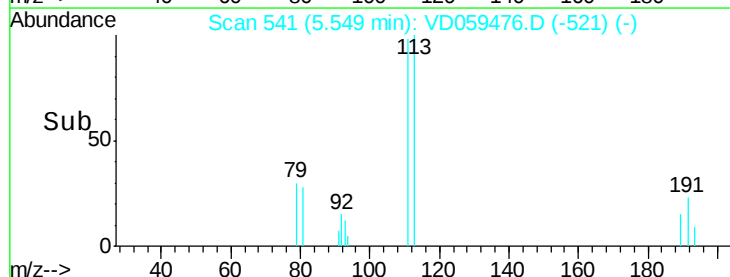
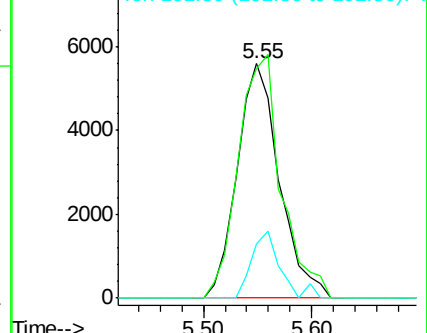
192 22.9 16.9 25.3

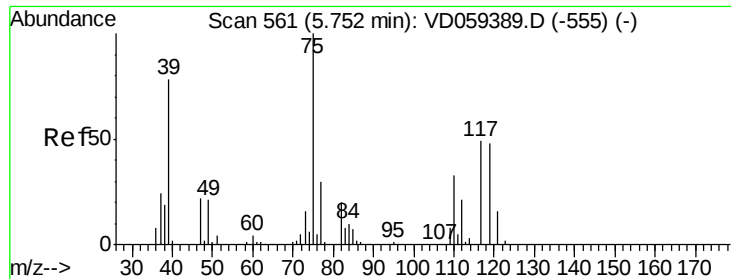


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

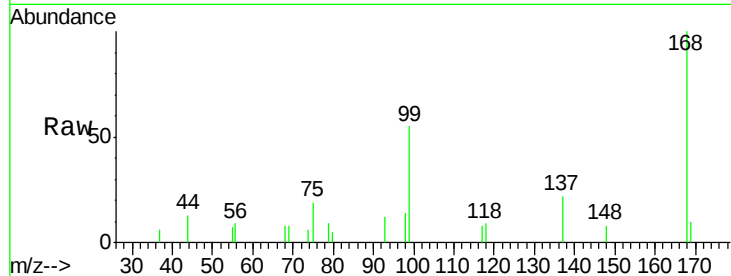




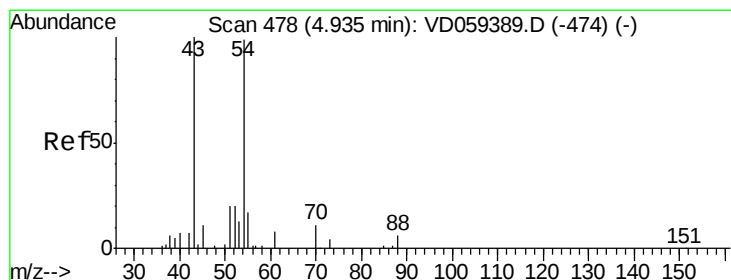
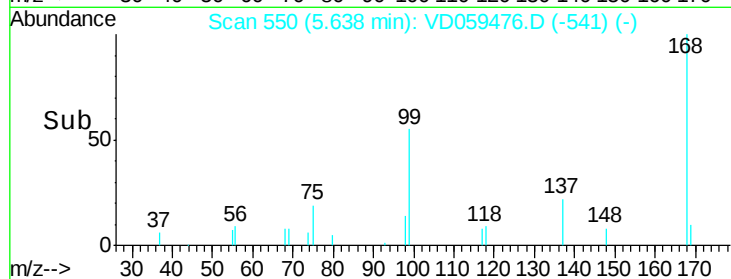
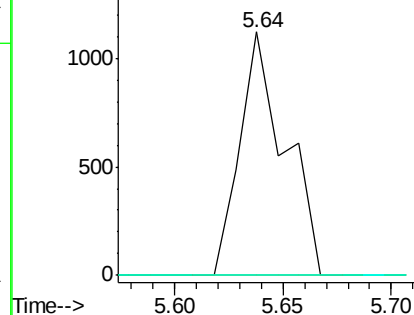
#36
 1,1-Dichloropropene
 Concen: 5.159 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.11 min
 Lab File: VD059476.D
 Acq: 28 Jun 2018 21:35

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 1635
 Ion Ratio Lower Upper
 75 100
 110 0.0 16.1 48.2#
 77 0.0 23.4 35.2#

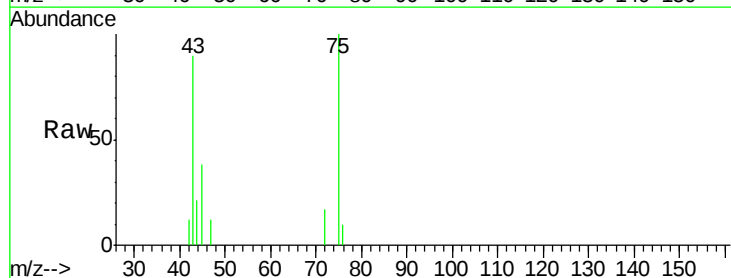


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

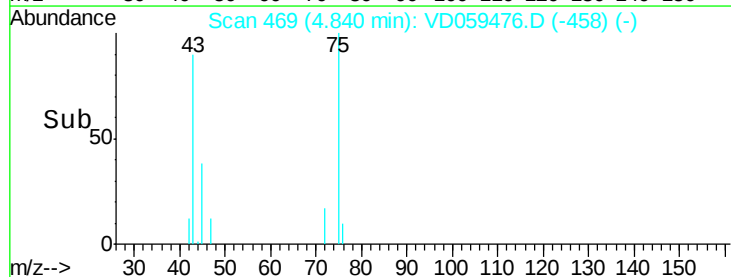
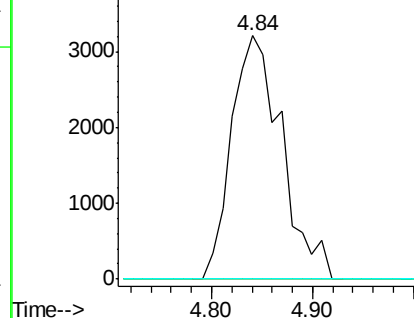


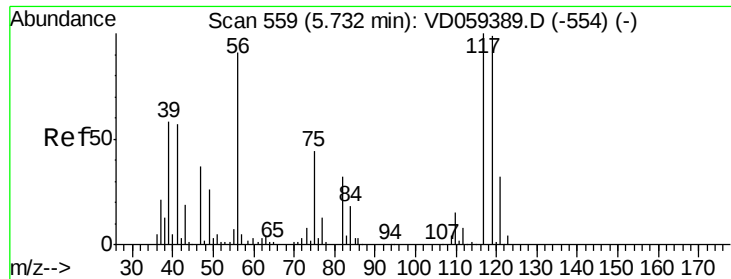
#37
 Ethyl Acetate
 Concen: 57.554 ug/l
 RT: 4.84 min Scan# 469
 Delta R.T. -0.09 min
 Lab File: VD059476.D
 Acq: 28 Jun 2018 21:35

Tgt Ion: 43 Resp: 11109
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.8#
 70 0.0 6.1 9.1#



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: 1.454 ug/l

RT: 5.68 min Scan# 554

Delta R.T. -0.06 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :
MSVOA_D
ClientSampleId :

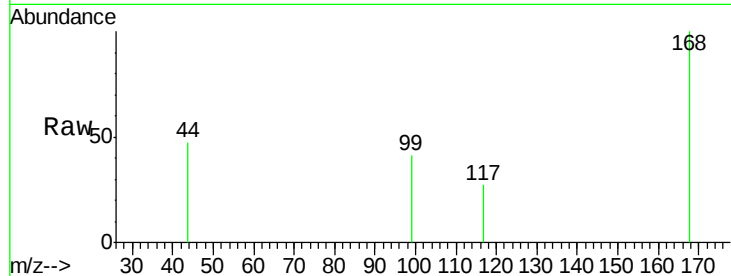
Tot Ion:117 Resp: 475

Ion Ratio Lower Upper

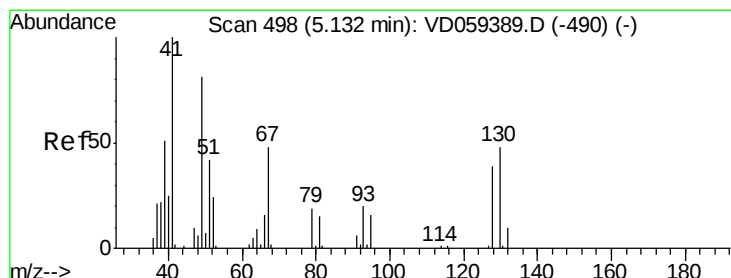
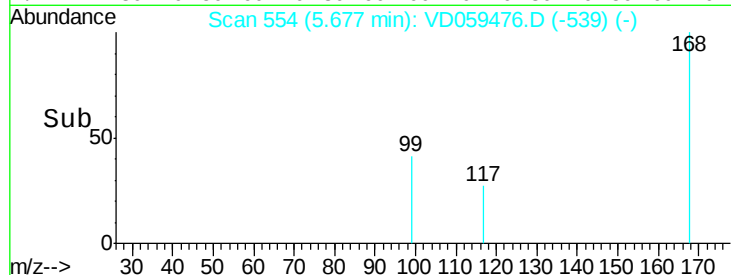
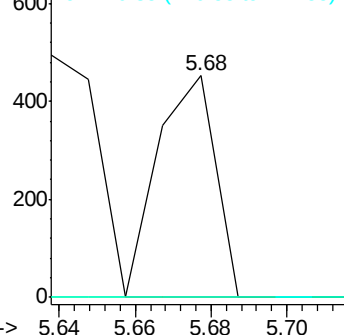
117 100

119 0.0 76.6 115.0#

121 0.0 25.0 37.4#



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: 1.915 ug/l

RT: 4.98 min Scan# 483

Delta R.T. -0.15 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Tgt Ion: 41 Resp: 178

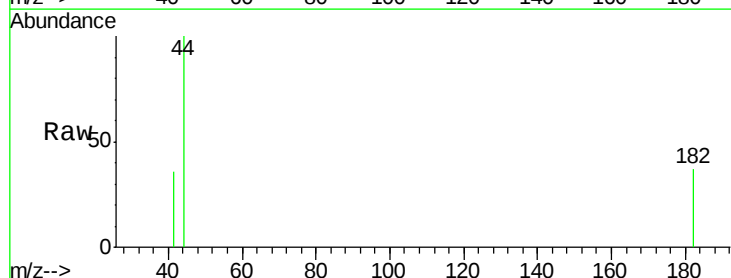
Ion Ratio Lower Upper

41 100

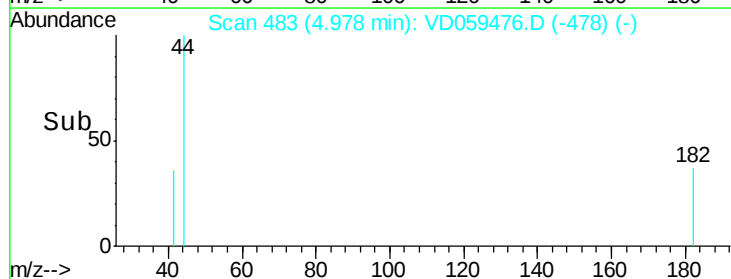
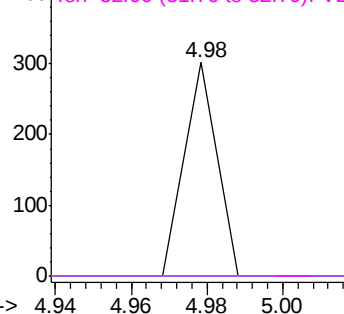
39 0.0 41.5 62.3#

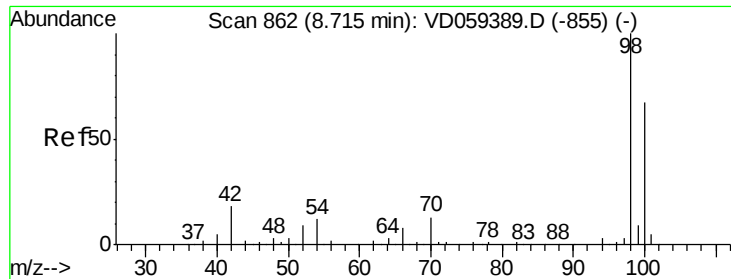
67 0.0 38.7 58.1#

52 0.0 19.4 29.2#



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

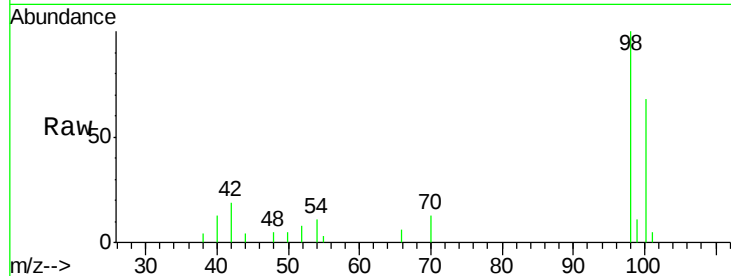




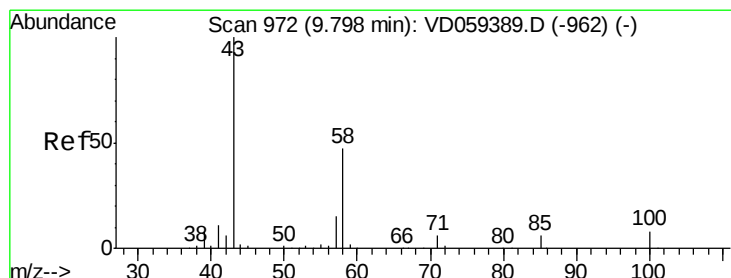
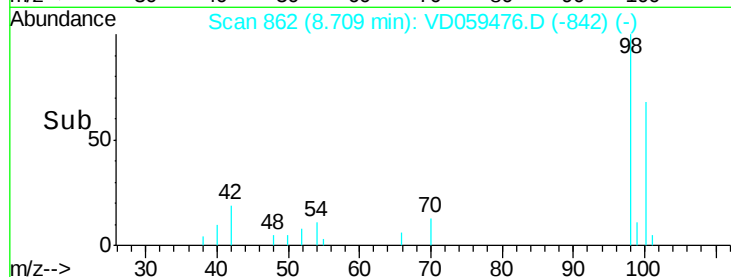
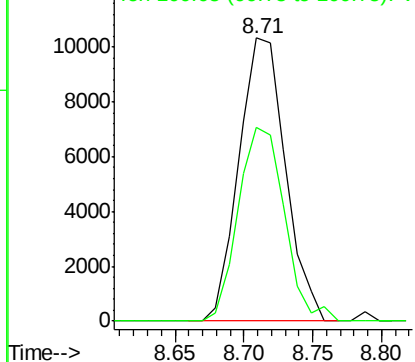
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. -0.01 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 24354
Ion Ratio Lower Upper
98 100
100 68.5 54.4 81.6

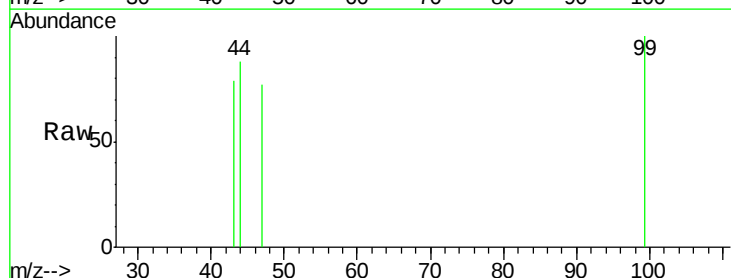


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

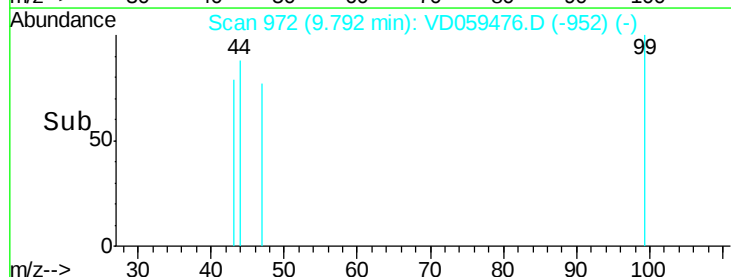
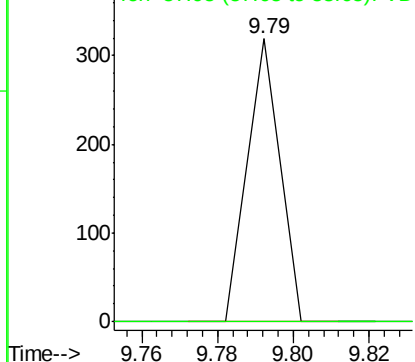


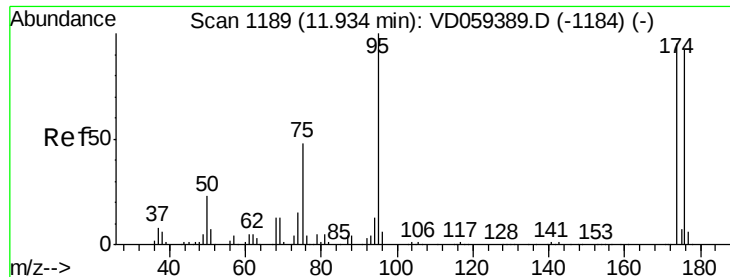
#59
2-Hexanone
Concen: 1.638 ug/l
RT: 9.79 min Scan# 972
Delta R.T. -0.01 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

Tgt Ion: 43 Resp: 188
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

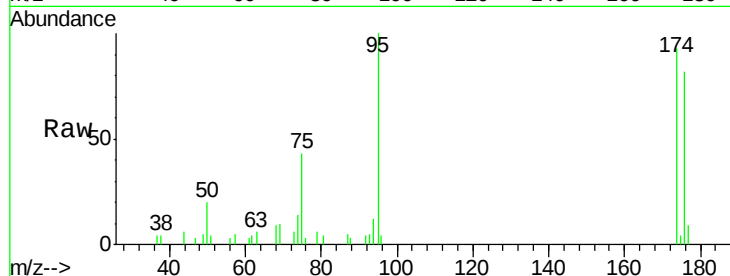




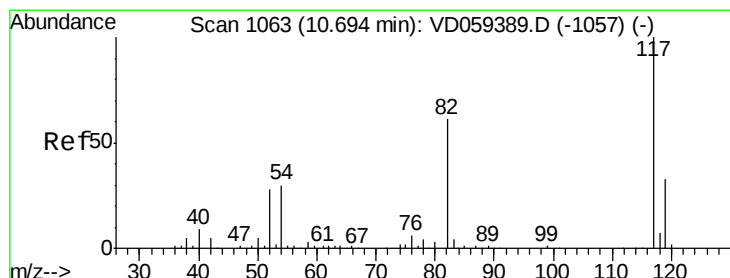
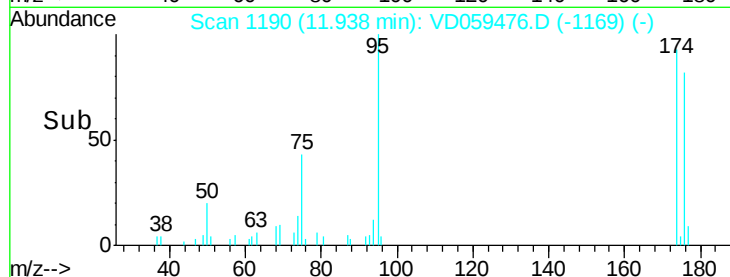
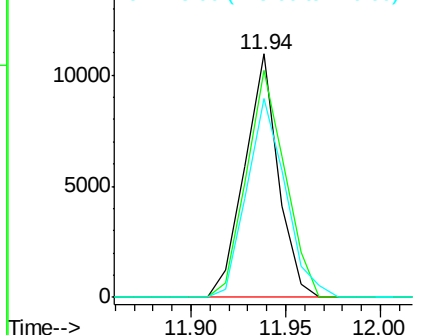
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.94 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 13448
Ion Ratio Lower Upper
95 100
174 93.1 0.0 190.4
176 81.8 0.0 183.2

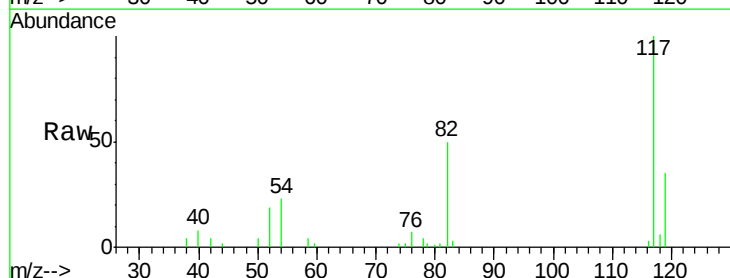


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

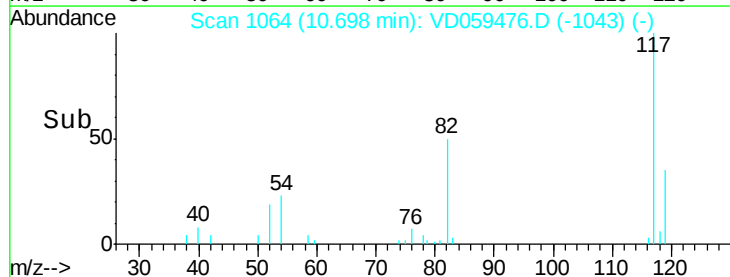
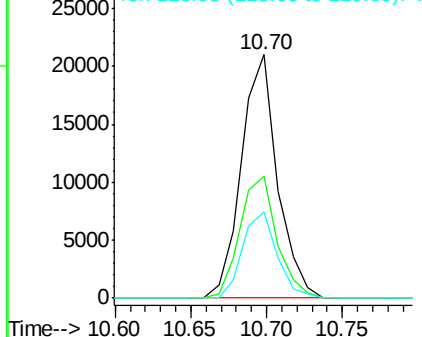


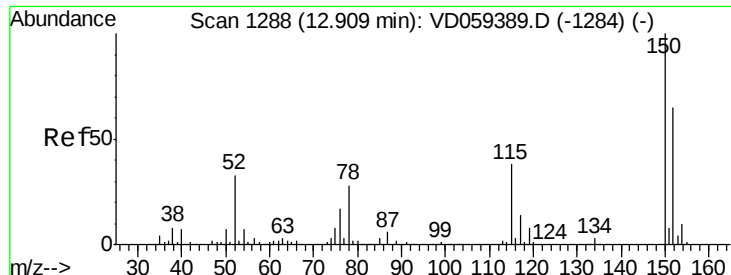
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.00 min
Lab File: VD059476.D
Acq: 28 Jun 2018 21:35

Tgt Ion: 117 Resp: 34757
Ion Ratio Lower Upper
117 100
82 50.2 49.0 73.6
119 35.2 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: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

Instrument :

MSVOA_D

ClientSampleId :

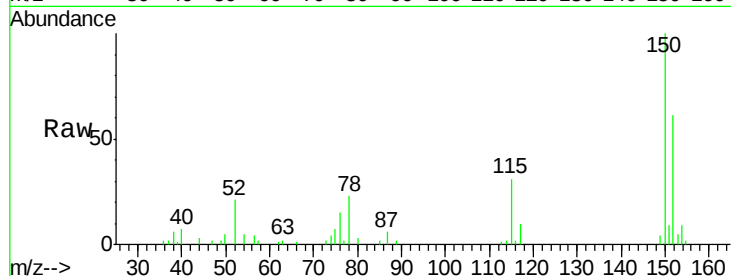
Tot Ion:152 Resp: 19373

Ion Ratio Lower Upper

152 100

115 51.1 29.4 88.3

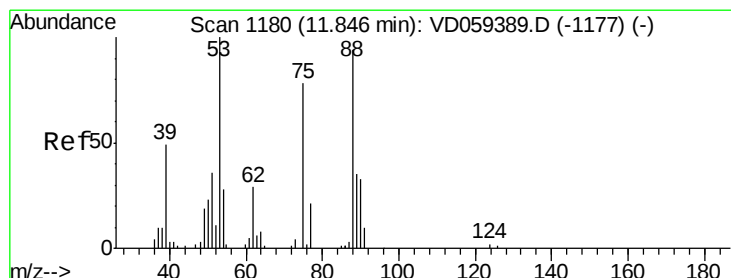
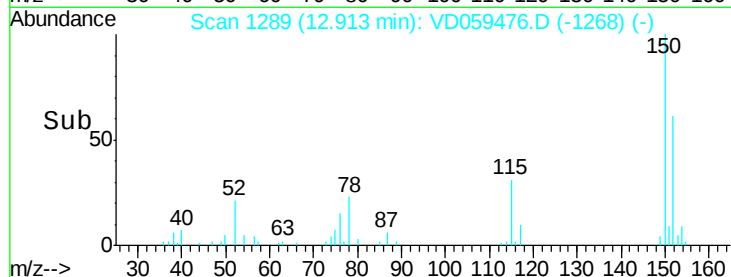
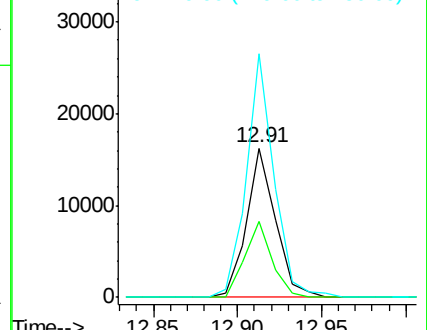
150 162.9 0.0 308.2



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



#81

trans-1,4-Dichloro-2-butene

Concen: 102.672 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.09 min

Lab File: VD059476.D

Acq: 28 Jun 2018 21:35

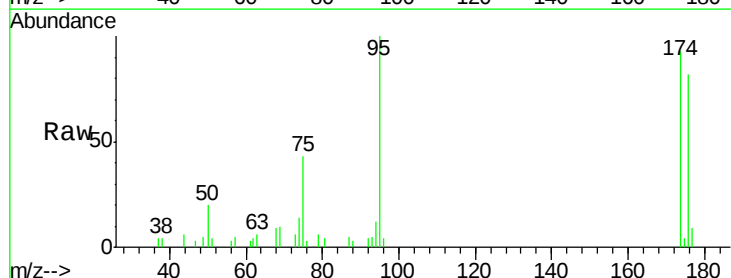
Tgt Ion: 75 Resp: 6236

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

