

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121918\
 Data File : VD060638.D
 Acq On : 19 Dec 2018 14:10
 Operator : VA/AP
 Sample : J6475-01
 Misc : 5.04G/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 00:30:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	1482290	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.44	114	1940422	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.27	117	1319544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	471605	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	463997	44.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.32%	
35) Dibromofluoromethane	6.32	113	654139	45.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.80%	
50) Toluene-d8	9.45	98	1737950	42.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.28%	
62) 4-Bromofluorobenzene	12.43	95	498383	33.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.54%	

Target Compounds

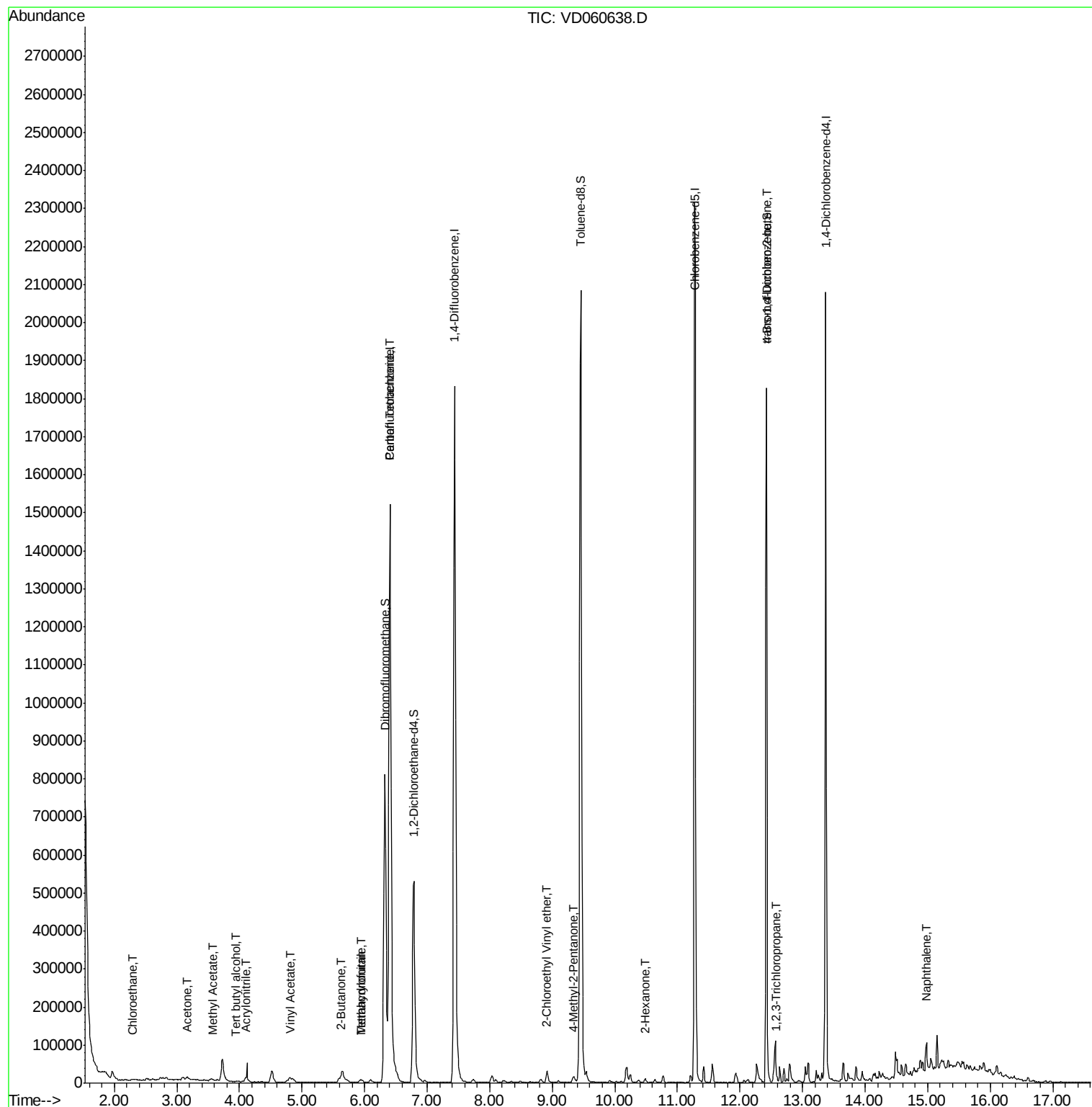
					Qvalue	
2) Dichlorodifluoromethane	1.60	85	8352	Below Cal		94
6) Chloroethane	2.28	64	575	2.410 ug/l #		42
11) Tert butyl alcohol	3.95	59	2389	5.597 ug/l #		73
15) Acrylonitrile	4.09	53	6692	2.761 ug/l		92
16) Acetone	3.17	43	17455	10.365 ug/l		94
18) Methyl Acetate	3.58	43	7388	1.846 ug/l #		64
20) Methylene Chloride	3.73	84	37301	Below Cal		91
23) Vinyl Acetate	4.81	43	32810	1.312 ug/l #		94
25) 2-Butanone	5.62	43	12930	3.902 ug/l #		87
29) Tetrahydrofuran	5.95	42	5868	3.128 ug/l #		86
31) Cyclohexane	6.40	56	36924	Below Cal #		1
38) Carbon Tetrachloride	6.40	117	112701	6.619 ug/l #		16
41) Methacrylonitrile	5.96	41	5545	1.250 ug/l #		64
51) 4-Methyl-2-Pentanone	9.34	43	19470	3.082 ug/l		97
58) 2-Chloroethyl Vinyl ether	8.92	63	13808	3.022 ug/l		98
59) 2-Hexanone	10.49	43	10978	2.487 ug/l		88
76) 1,2,3-Trichloropropane	12.59	75	5576	1.043 ug/l		90
81) trans-1,4-Dichloro-2-buten	12.43	75	206822	138.774 ug/l #		14
95) Naphthalene	14.96	128	13006	1.077 ug/l		97

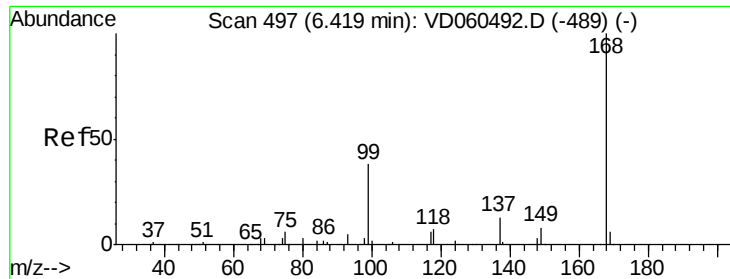
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

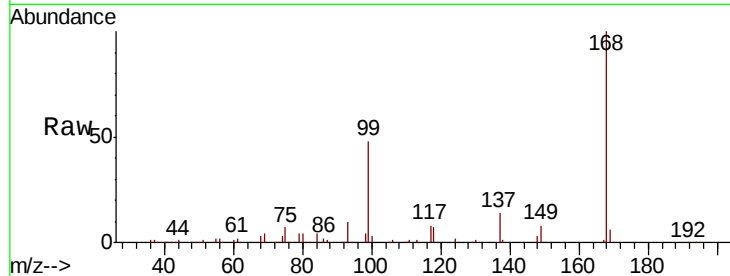
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 1482290

Ion Ratio Lower Upper

168 100

99 48.3 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.40

500000

400000

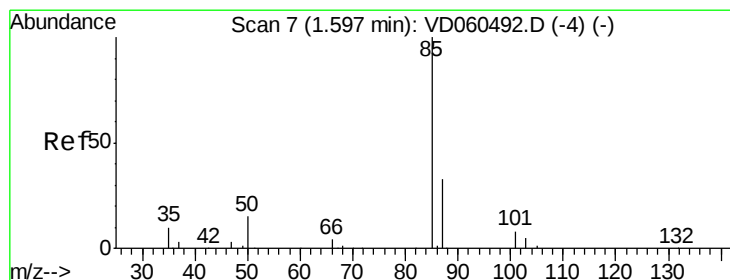
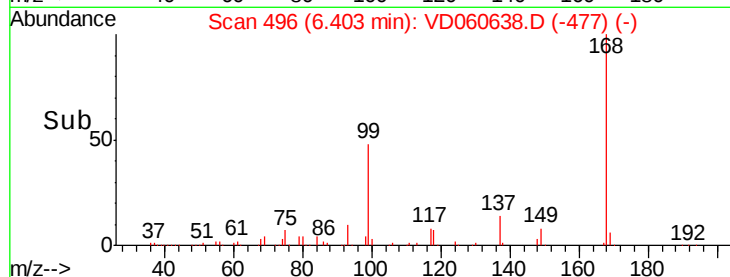
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.00 min

Lab File: VD060638.D

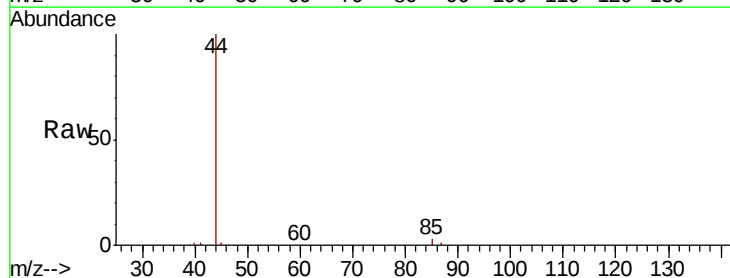
Acq: 19 Dec 2018 14:10

Tgt Ion: 85 Resp: 8352

Ion Ratio Lower Upper

85 100

87 30.0 16.7 50.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

4000

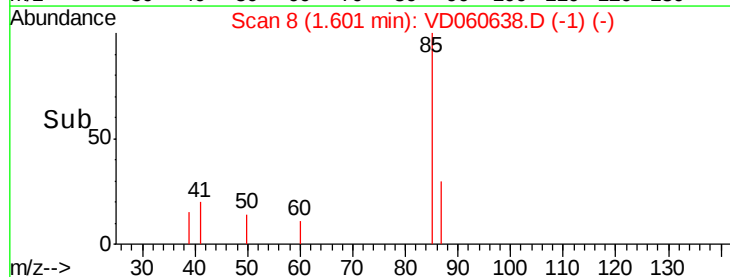
3000

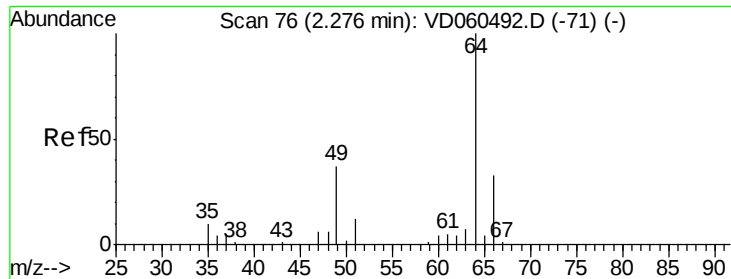
2000

1000

0

Time-->





#6

Chloroethane

Concen: 2.410 ug/l

RT: 2.28 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA_D

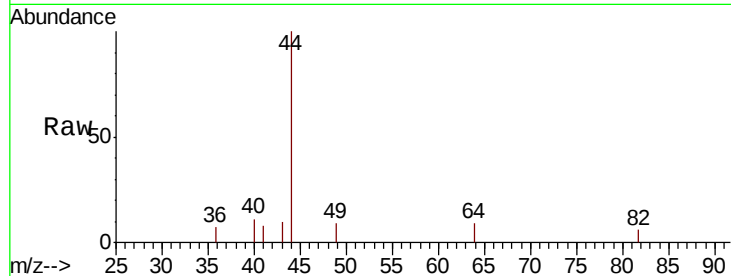
ClientSampleId :

Tot Ion: 64 Resp: 575

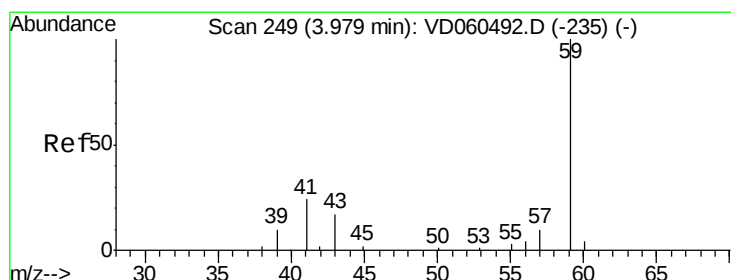
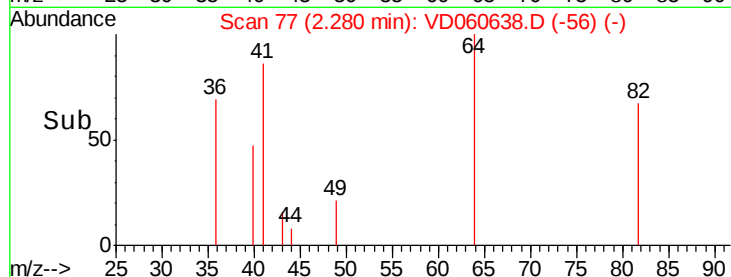
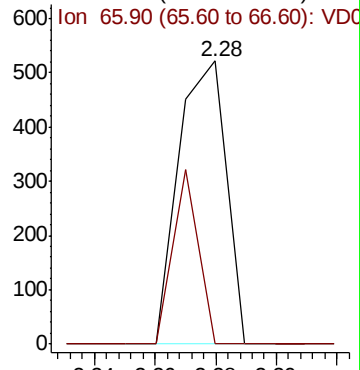
Ion Ratio Lower Upper

64 100

66 0.0 26.4 39.6#



Abundance Ion 63.95 (63.65 to 64.65): VDC



#11

Tert butyl alcohol

Concen: 5.597 ug/l

RT: 3.95 min Scan# 247

Delta R.T. -0.03 min

Lab File: VD060638.D

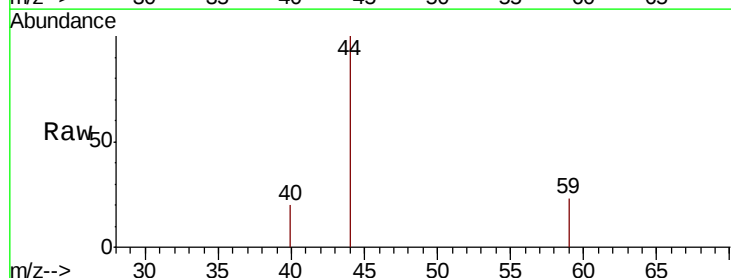
Acq: 19 Dec 2018 14:10

Tgt Ion: 59 Resp: 2389

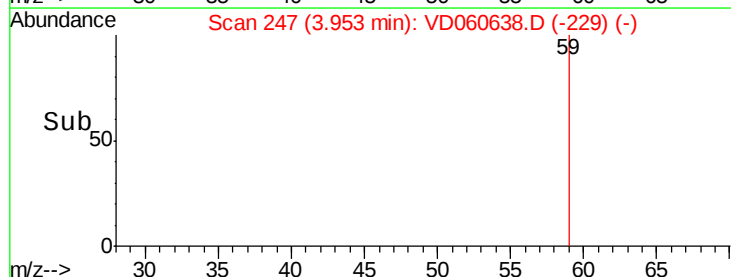
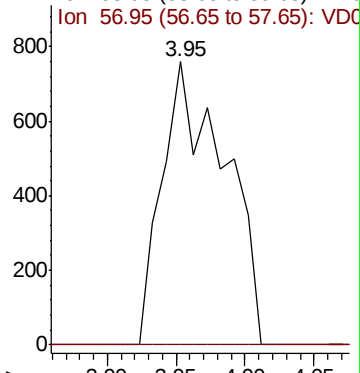
Ion Ratio Lower Upper

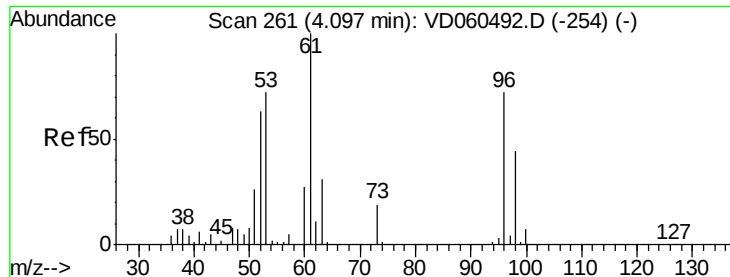
59 100

57 0.0 8.1 12.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC





#15

Acrylonitrile

Concen: 2.761 ug/l

RT: 4.09 min Scan# 261

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :
MSVOA_D
ClientSampled :

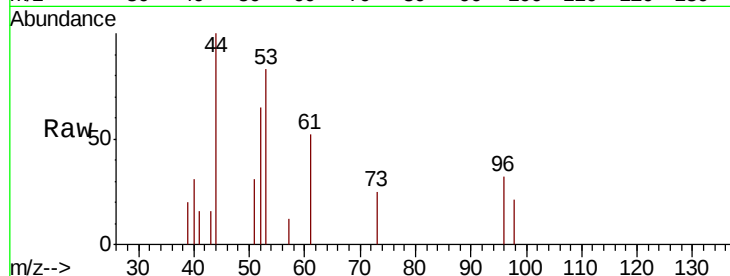
Tot Ion: 53 Resp: 6692

Ion Ratio Lower Upper

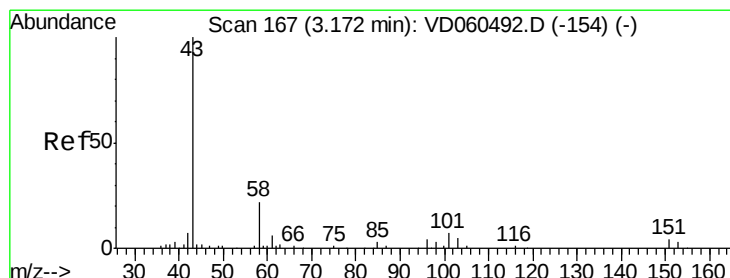
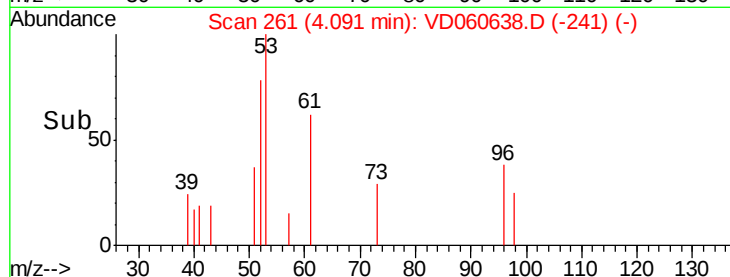
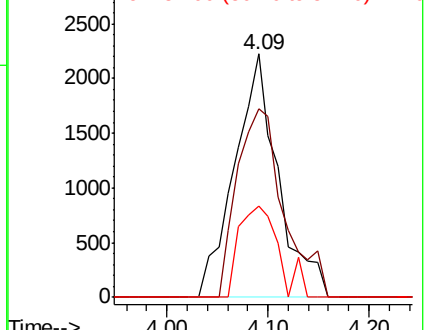
53 100

52 77.6 70.0 105.0

51 37.4 28.8 43.2



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: 10.365 ug/l

RT: 3.17 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD060638.D

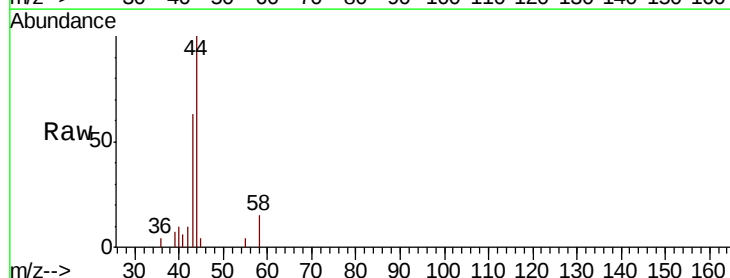
Acq: 19 Dec 2018 14:10

Tgt Ion: 43 Resp: 17455

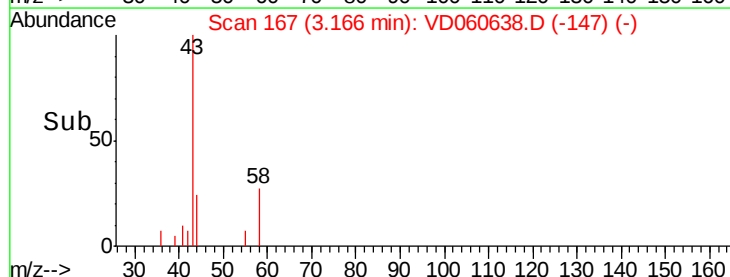
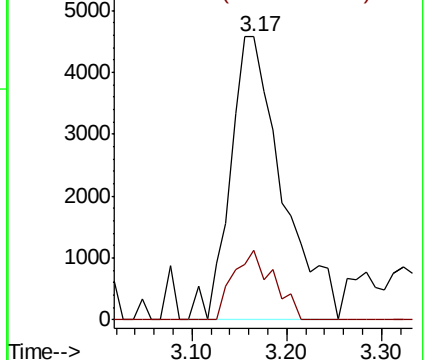
Ion Ratio Lower Upper

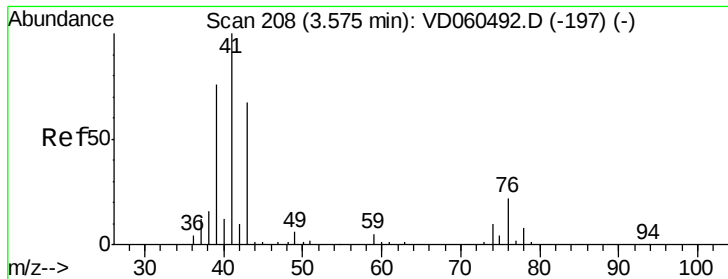
43 100

58 24.4 17.3 25.9



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

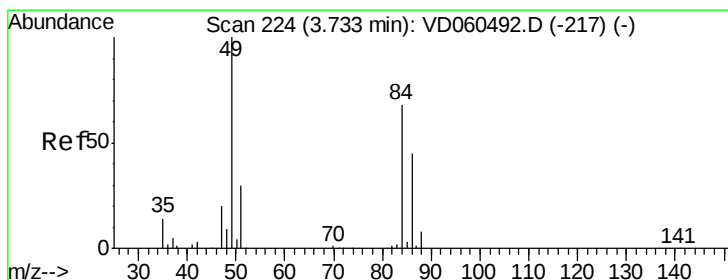
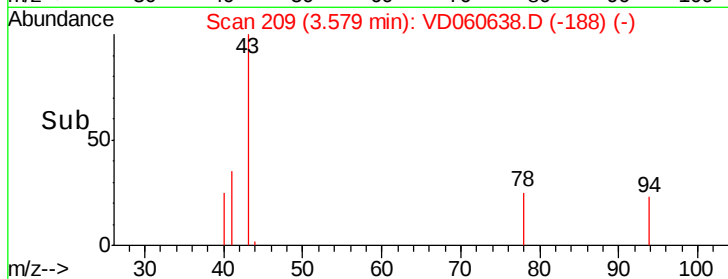
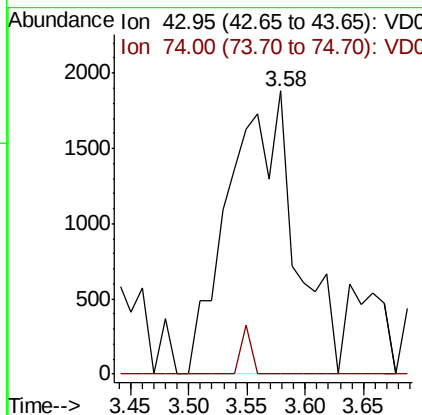
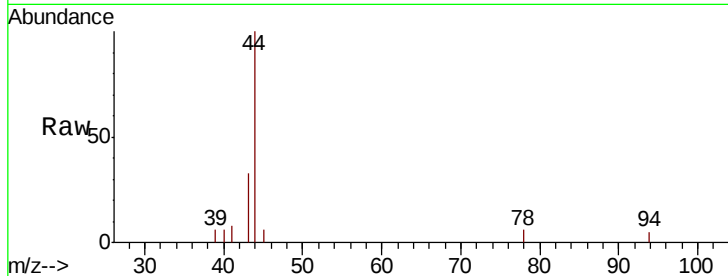




#18
Methyl Acetate
Concen: 1.846 ug/l
RT: 3.58 min Scan# 209
Delta R.T. 0.00 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

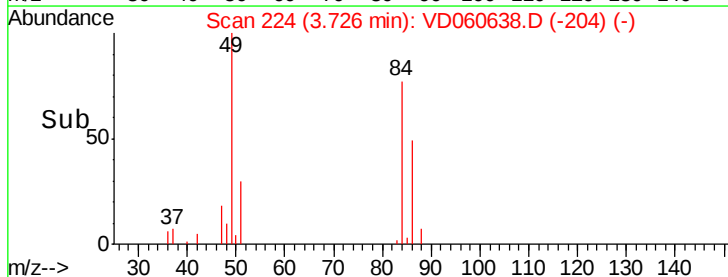
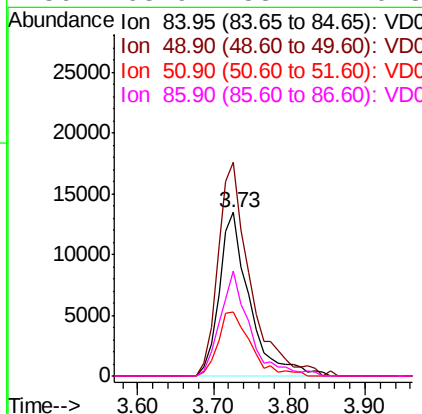
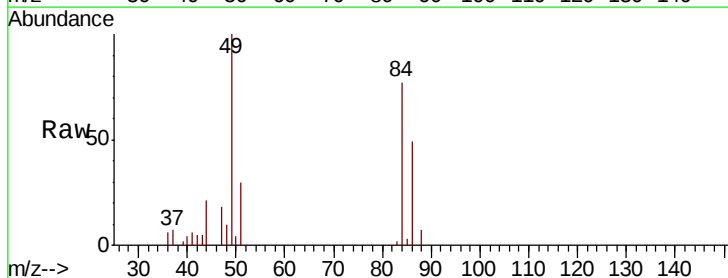
Instrument :
MSVOA_D
ClientSampleId :

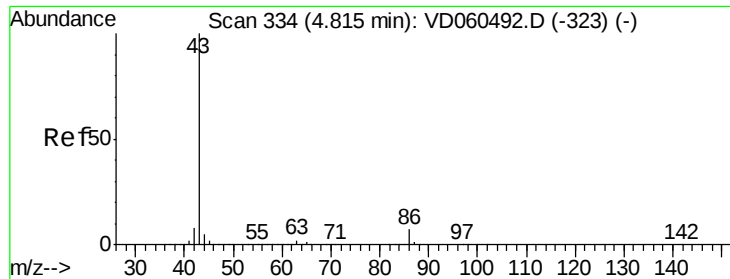
Tot Ion: 43 Resp: 7388
Ion Ratio Lower Upper
43 100
74 0.0 12.0 18.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.73 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Tgt Ion: 84 Resp: 37301
Ion Ratio Lower Upper
84 100
49 130.7 117.2 175.8
51 39.3 35.3 52.9
86 63.9 53.2 79.8





#23

Vinyl Acetate

Concen: 1.312 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA_D

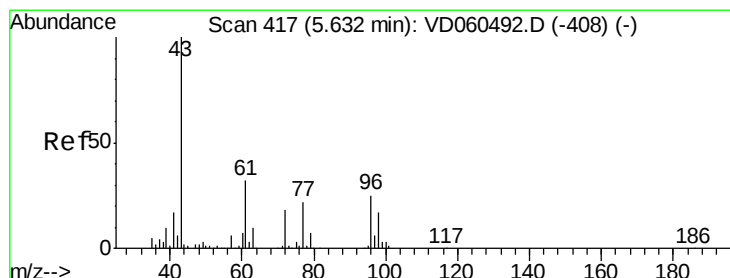
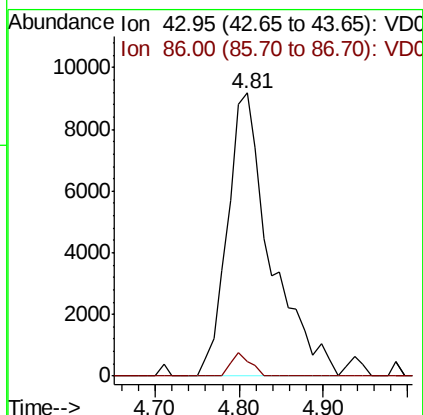
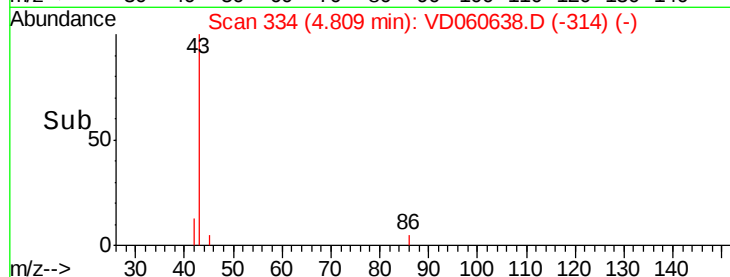
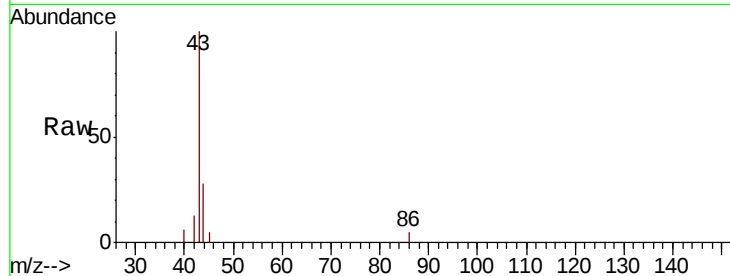
ClientSampled :

Tot Ion: 43 Resp: 32810

Ion Ratio Lower Upper

43 100

86 5.0 5.5 8.3#



#25

2-Butanone

Concen: 3.902 ug/l

RT: 5.62 min Scan# 416

Delta R.T. -0.02 min

Lab File: VD060638.D

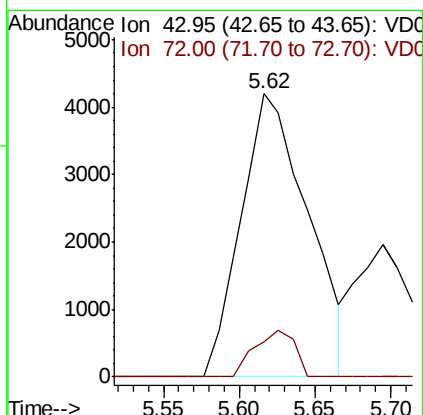
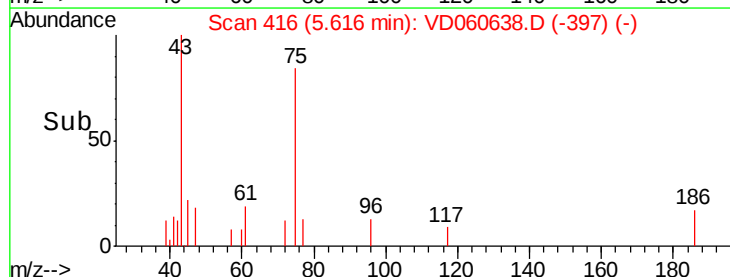
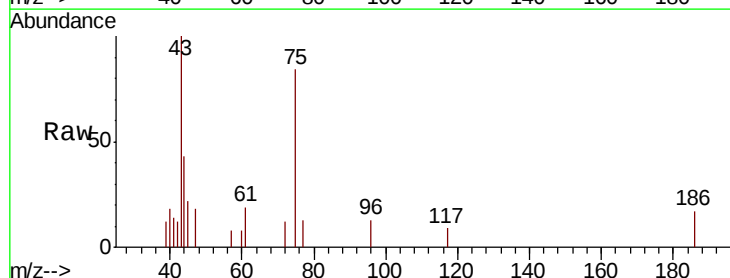
Acq: 19 Dec 2018 14:10

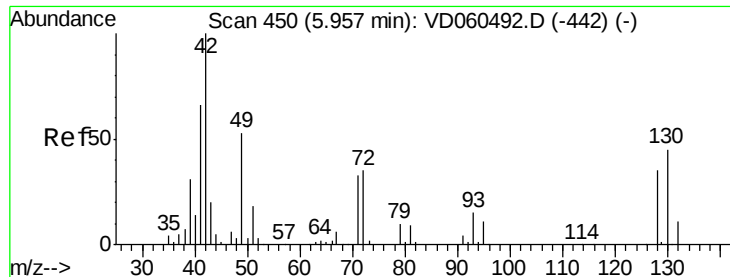
Tgt Ion: 43 Resp: 12930

Ion Ratio Lower Upper

43 100

72 12.3 14.6 21.8#

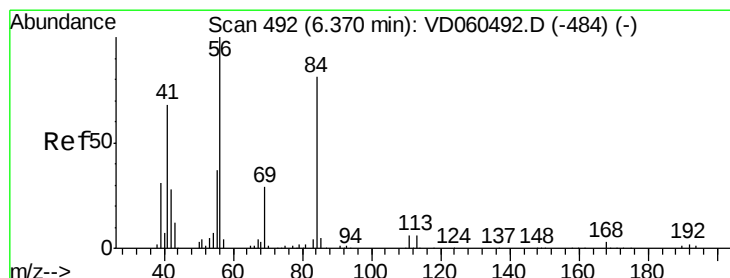
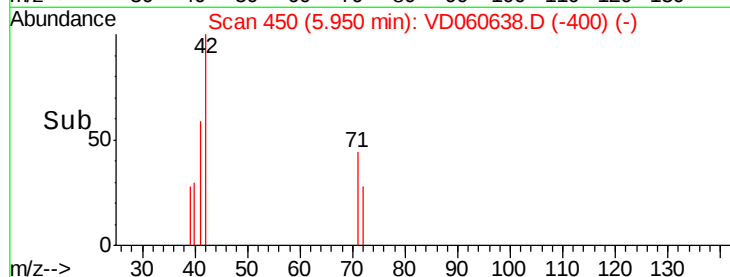
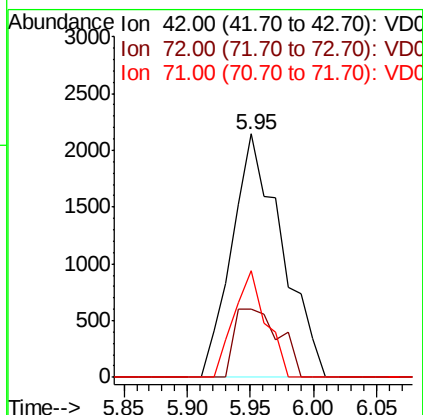
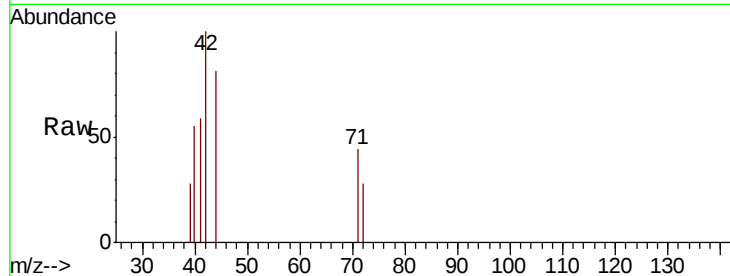




#29
Tetrahydrofuran
Concen: 3.128 ug/l
RT: 5.95 min Scan# 450
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

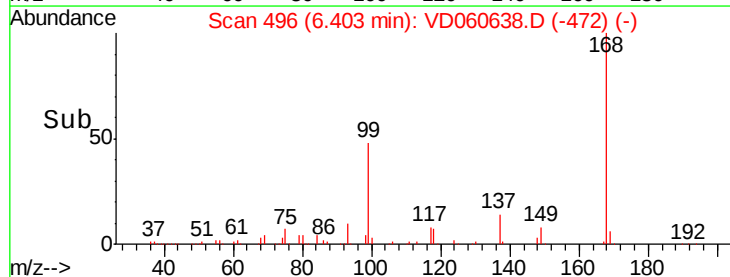
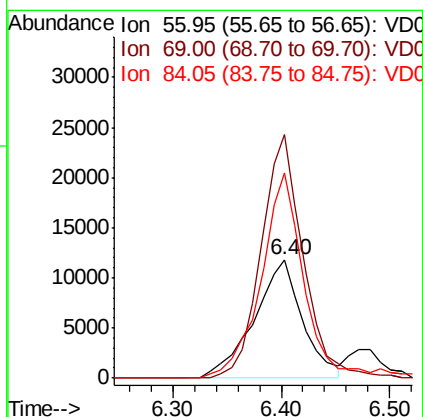
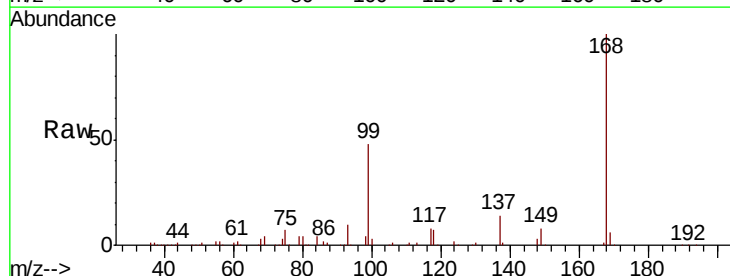
Instrument :
MSVOA_D
ClientSampleId :

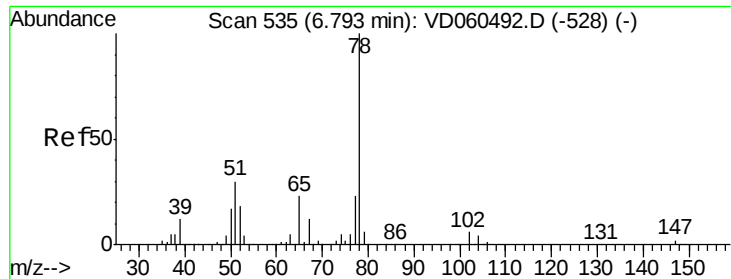
Tot Ion: 42 Resp: 5868
Ion Ratio Lower Upper
42 100
72 25.2 28.0 42.0#
71 28.2 27.2 40.8



#31
Cyclohexane
Concen: Below Cal
RT: 6.40 min Scan# 496
Delta R.T. 0.03 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Tgt Ion: 56 Resp: 36924
Ion Ratio Lower Upper
56 100
69 205.3 22.8 34.2#
84 173.4 65.1 97.7#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

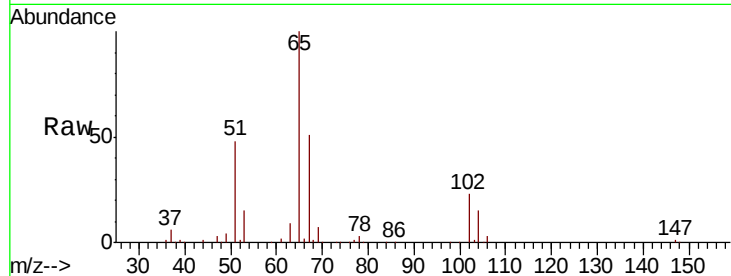
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 463997

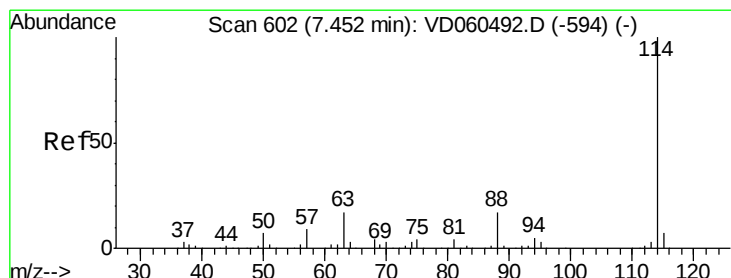
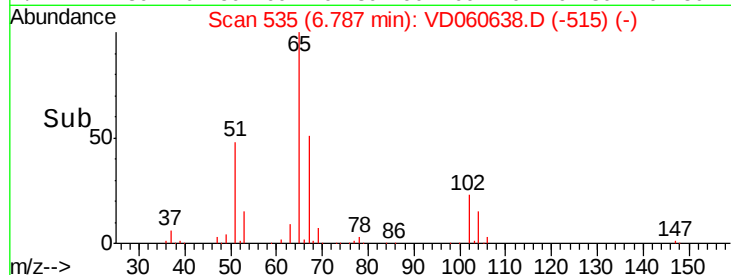
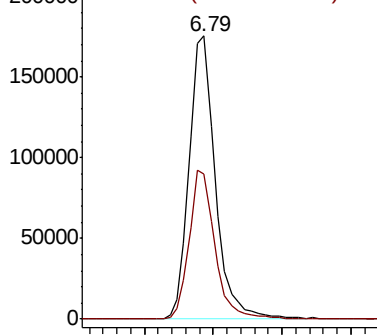
Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.8



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: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

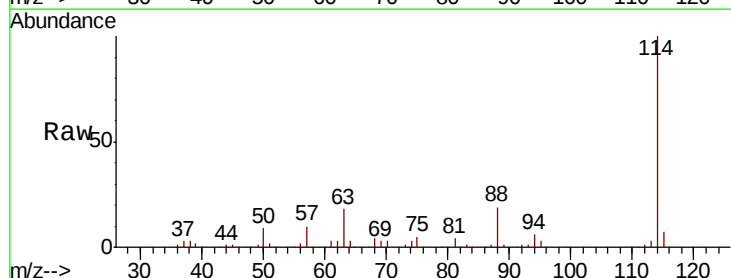
Tgt Ion: 114 Resp: 1940422

Ion Ratio Lower Upper

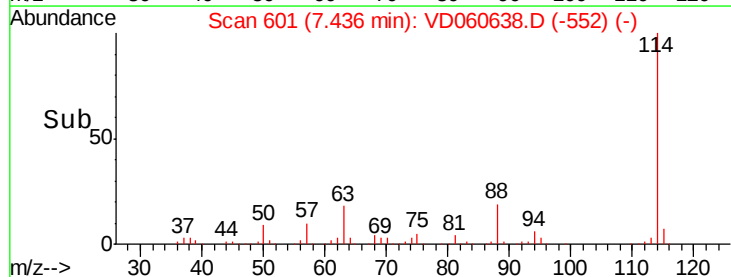
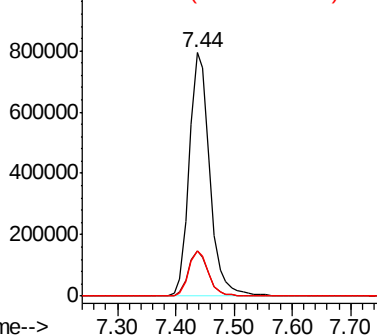
114 100

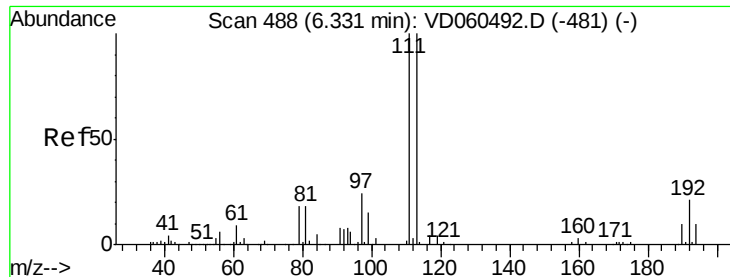
63 18.5 0.0 34.2

88 18.8 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): VDC
Ion 62.95 (62.65 to 63.65): VDC
Ion 87.90 (87.60 to 88.60): VDC

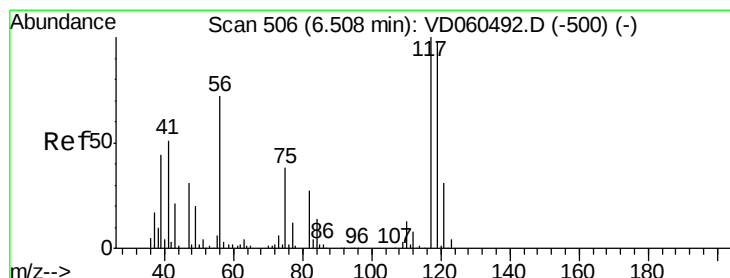
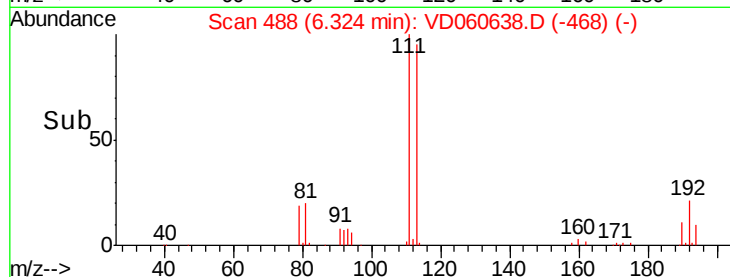
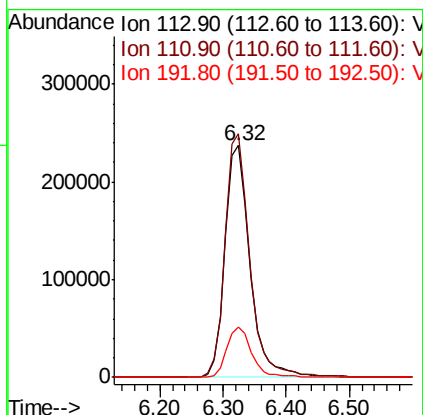
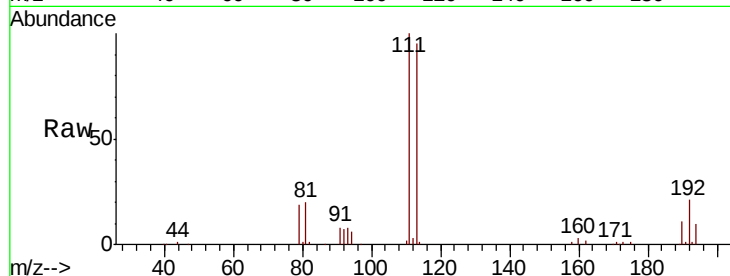




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: VD060638.D
 Acq: 19 Dec 2018 14:10

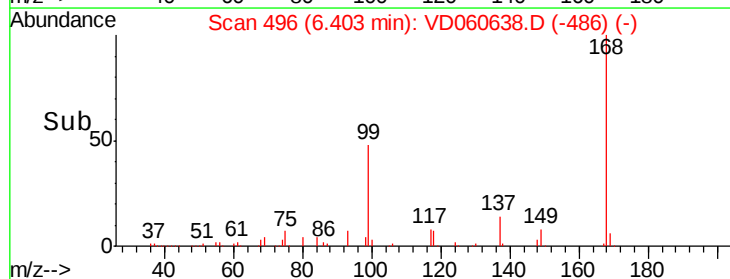
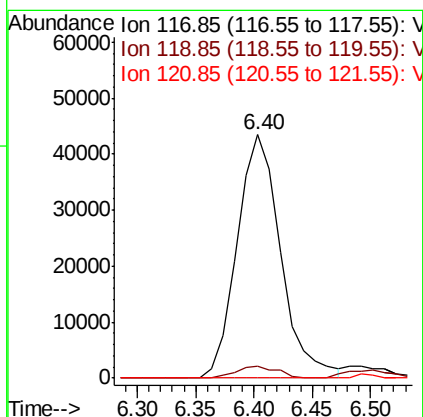
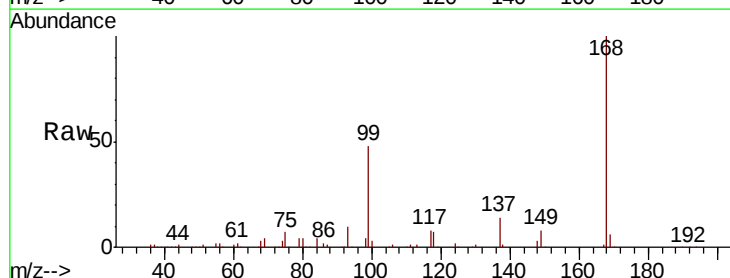
Instrument :
 MSVOA_D
 ClientSampleId :

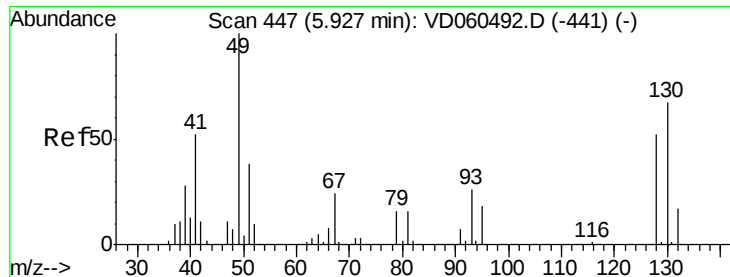
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.9	80.2	120.4
192	21.9	16.6	24.8



#38
 Carbon Tetrachloride
 Concen: 6.619 ug/l
 RT: 6.40 min Scan# 496
 Delta R.T. -0.10 min
 Lab File: VD060638.D
 Acq: 19 Dec 2018 14:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.8	115.2#
121	0.0	24.4	36.6#

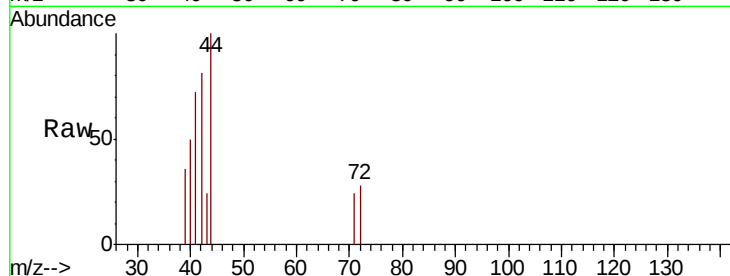




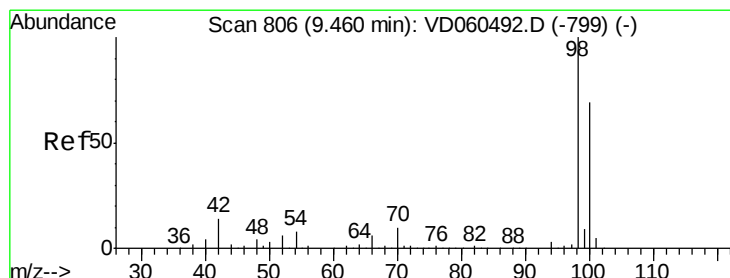
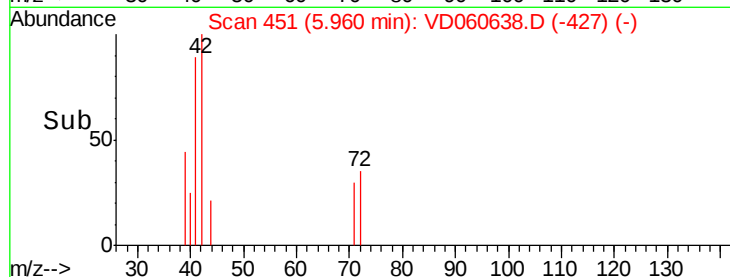
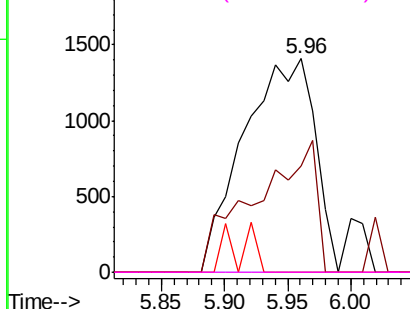
#41
Methacrylonitrile
Concen: 1.250 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.03 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 5545
Ion Ratio Lower Upper
41 100
39 49.5 42.6 63.8
67 0.0 36.2 54.4#
52 0.0 15.6 23.4#

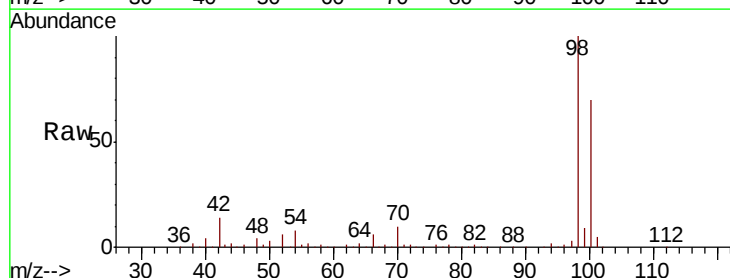


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

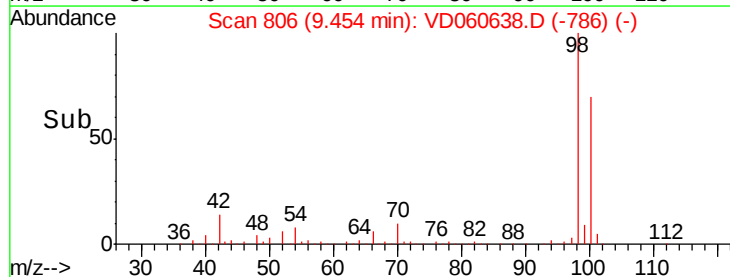
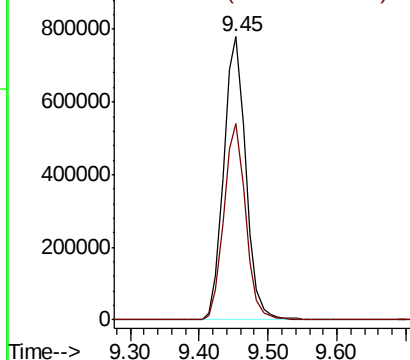


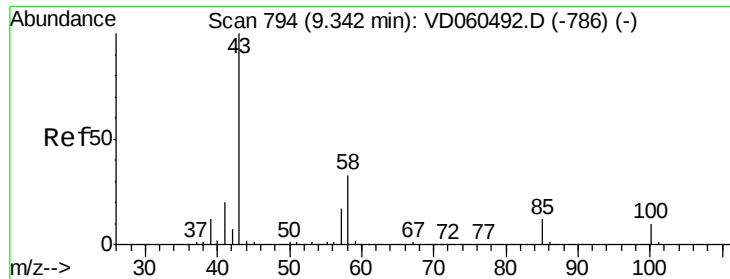
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Tgt Ion: 98 Resp: 1737950
Ion Ratio Lower Upper
98 100
100 69.5 55.7 83.5



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





#51

4-Methyl-2-Pentanone

Concen: 3.082 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA_D

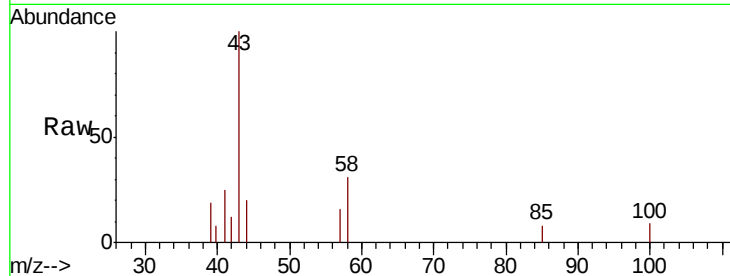
ClientSampleId :

Tot Ion: 43 Resp: 19470

Ion Ratio Lower Upper

43 100

58 31.3 26.3 39.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8000

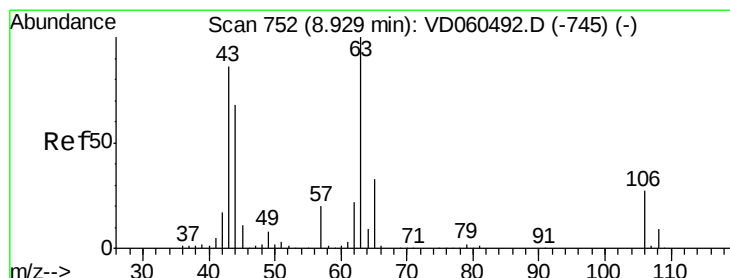
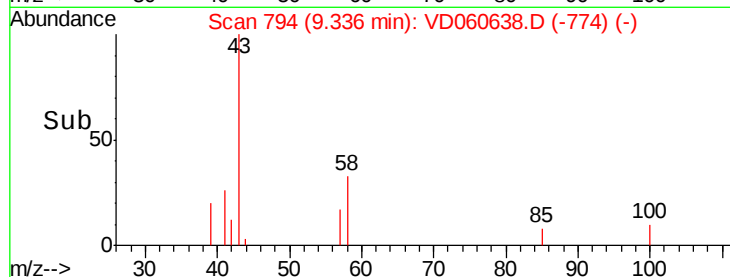
6000

4000

2000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 3.022 ug/l

RT: 8.92 min Scan# 752

Delta R.T. -0.01 min

Lab File: VD060638.D

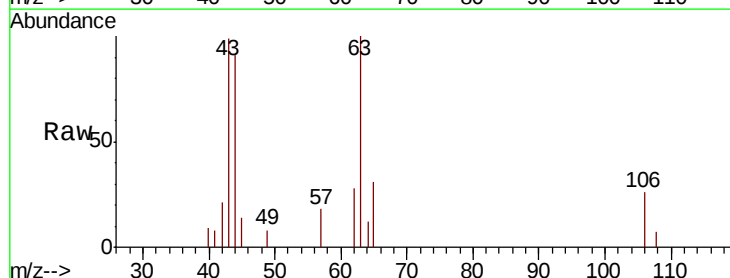
Acq: 19 Dec 2018 14:10

Tgt Ion: 63 Resp: 13808

Ion Ratio Lower Upper

63 100

106 25.9 21.6 32.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

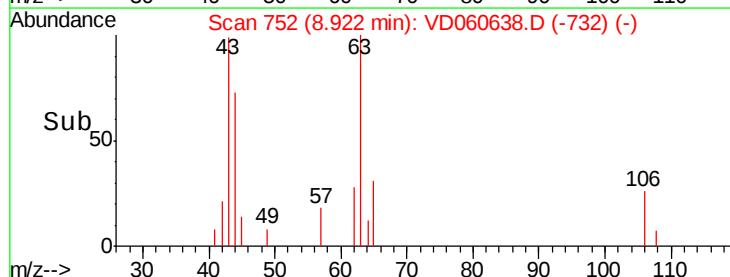
6000

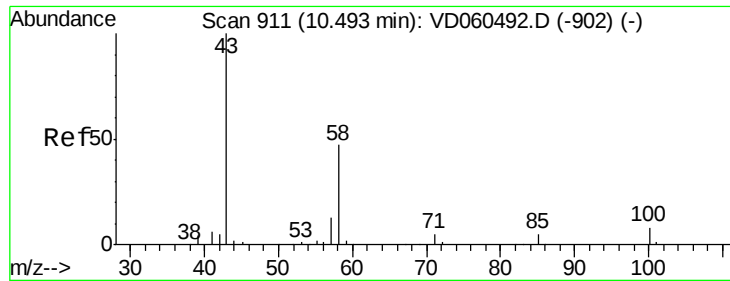
4000

2000

0

Time-->

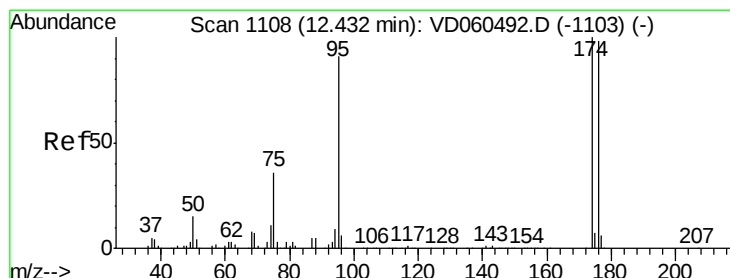
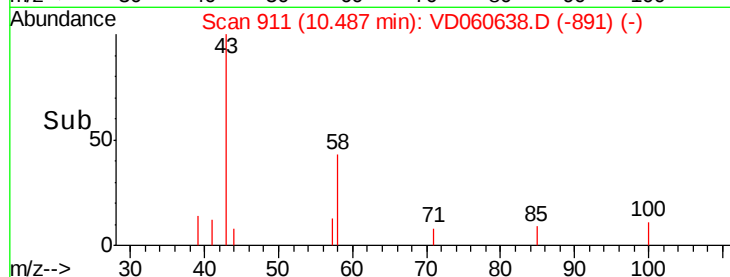
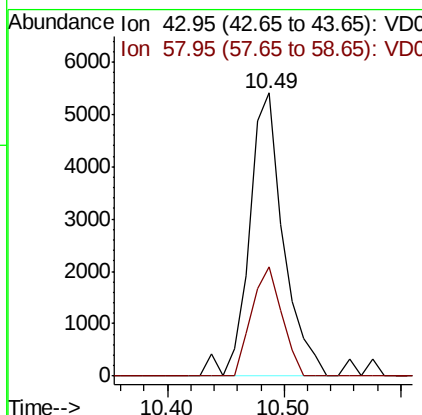
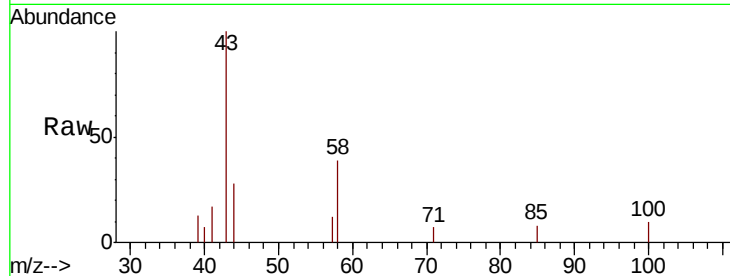




#59
2-Hexanone
Concen: 2.487 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

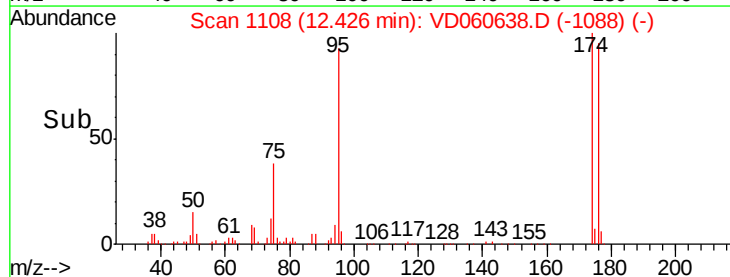
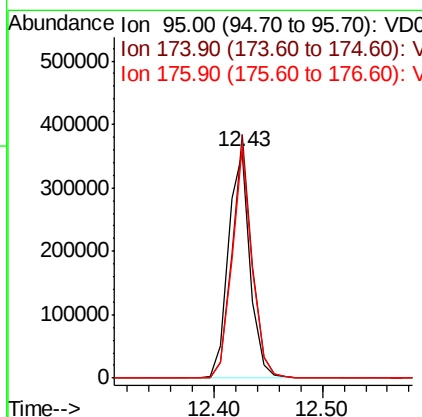
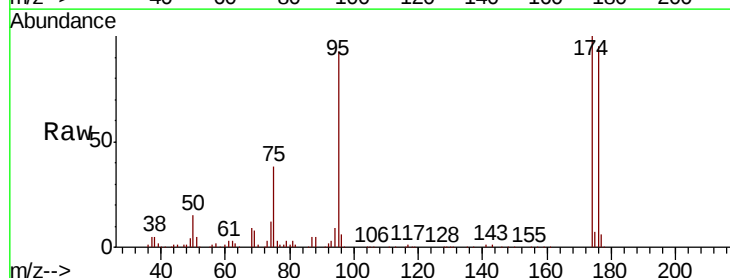
Instrument :
MSVOA_D
ClientSampled :

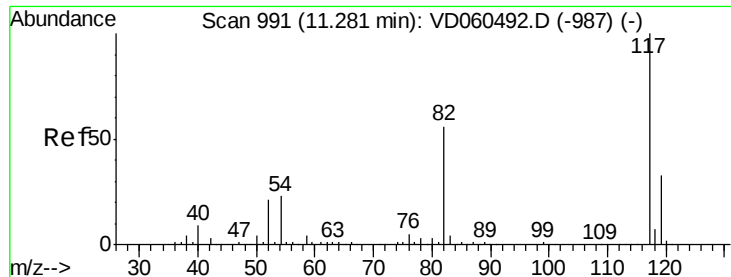
Tot Ion: 43 Resp: 10978
Ion Ratio Lower Upper
43 100
58 38.5 23.4 70.2



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.43 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Tgt Ion: 95 Resp: 498383
Ion Ratio Lower Upper
95 100
174 107.6 0.0 219.4
176 102.6 0.0 214.6

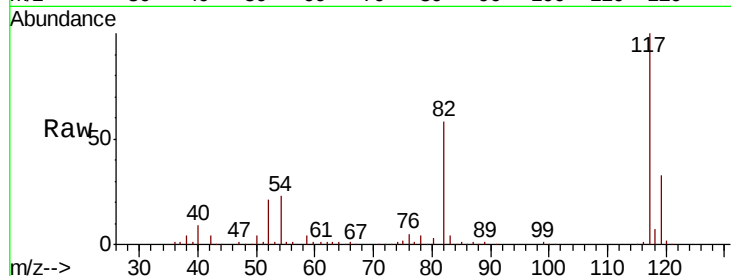




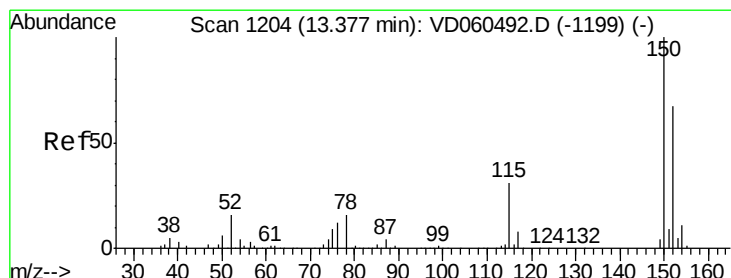
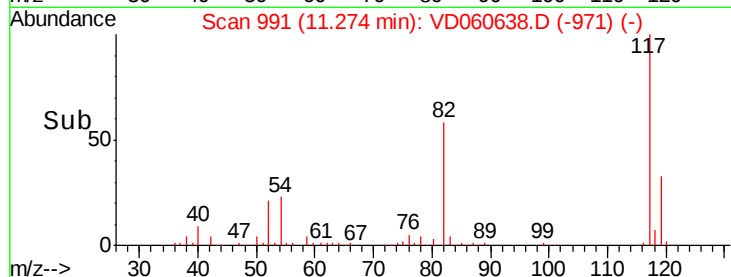
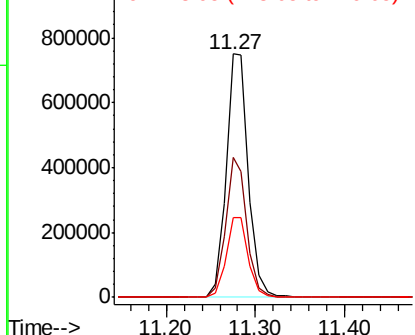
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 991
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 1319544
Ion Ratio Lower Upper
117 100
82 57.7 45.2 67.8
119 33.0 26.1 39.1

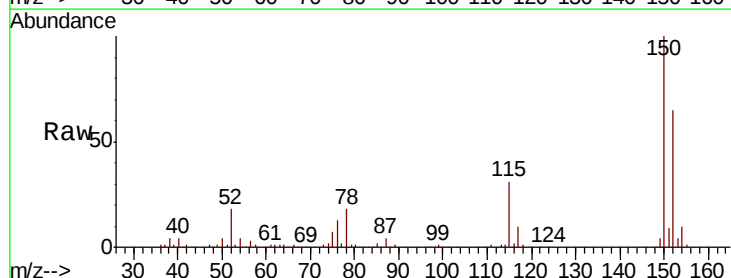


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

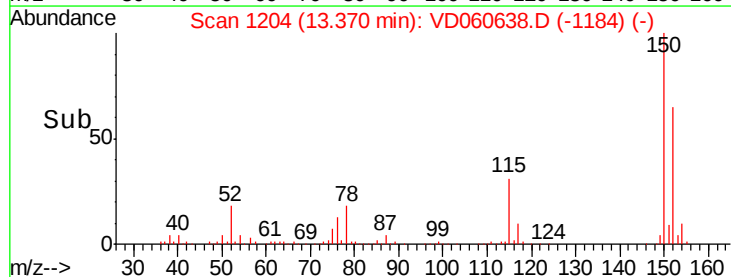
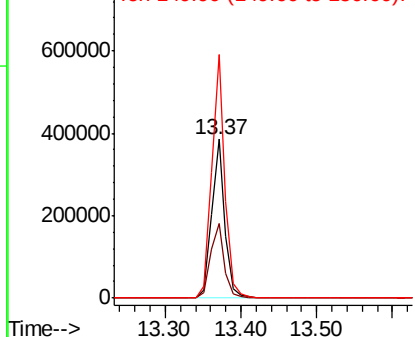


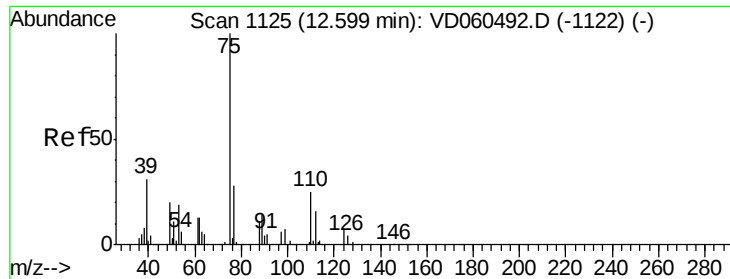
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Tgt Ion:152 Resp: 471605
Ion Ratio Lower Upper
152 100
115 46.9 24.6 74.0
150 153.2 0.0 309.0



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





#76

1,2,3-Trichloropropane

Concen: 1.043 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

Instrument :

MSVOA_D

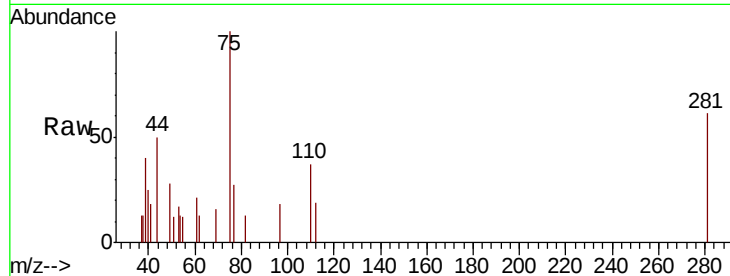
ClientSampled :

Tot Ion: 75 Resp: 5576

Ion Ratio Lower Upper

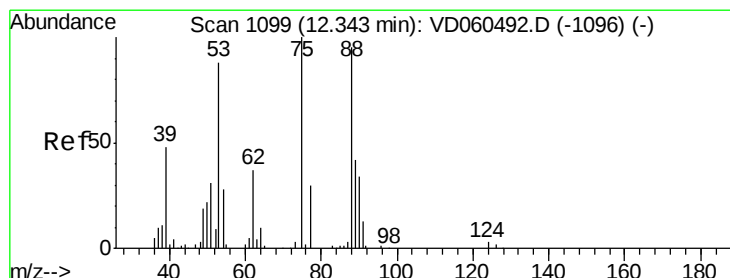
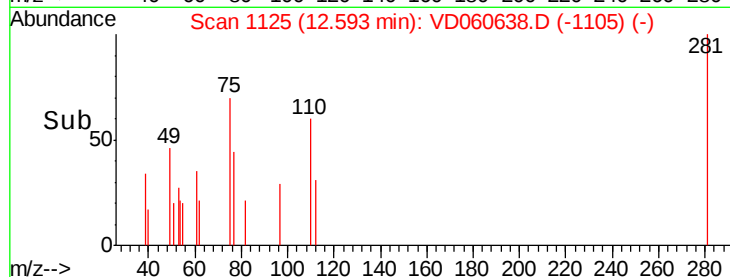
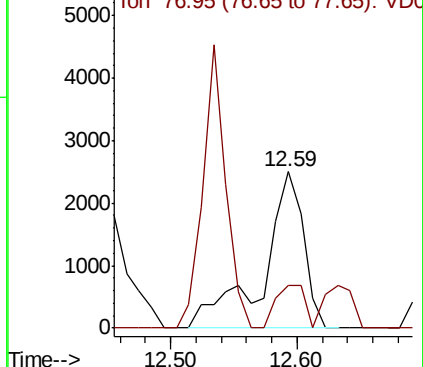
75 100

77 27.1 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 138.774 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060638.D

Acq: 19 Dec 2018 14:10

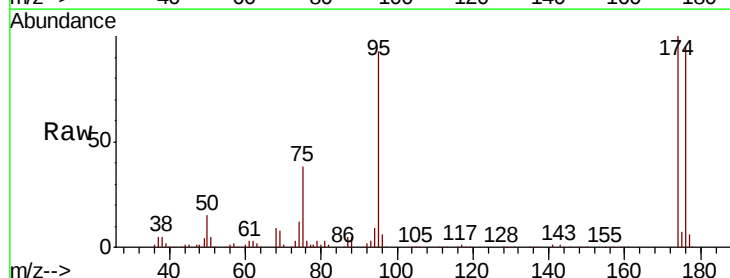
Tgt Ion: 75 Resp: 206822

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

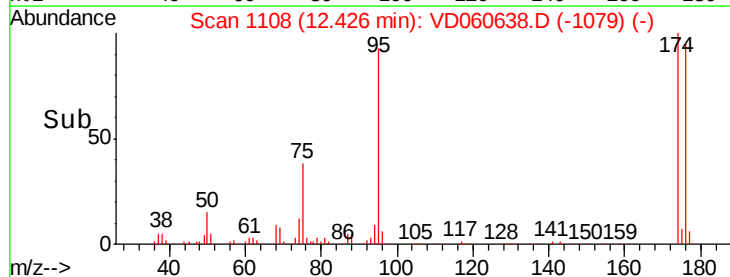
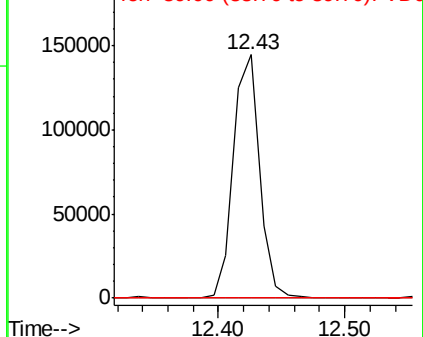
89 0.0 33.6 50.4#

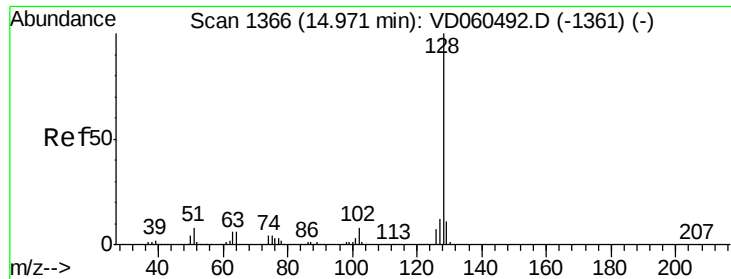


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

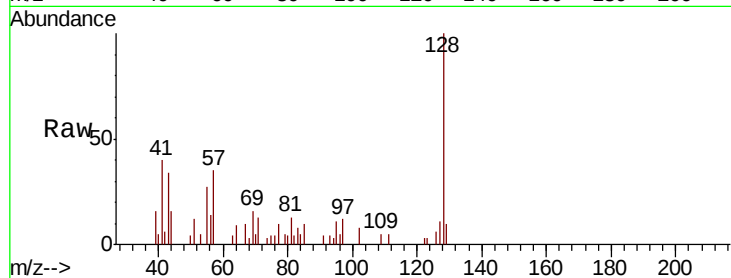




#95
Naphthalene
Concen: 1.077 ug/l
RT: 14.96 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060638.D
Acq: 19 Dec 2018 14:10

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	128	Resp:	13006
Ion	Ratio	Lower	Upper
128	100		
127	11.1	9.8	14.8
129	10.1	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

