

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062002.D
 Acq On : 24 Apr 2019 17:21
 Operator : VA/AP
 Sample : K2540-04RE
 Misc : 4.65µl/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 01:35:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	458568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	724904	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	525883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	188546	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	175314	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
35) Dibromofluoromethane	7.06	113	269	0.05	ug/l	0.12
Spiked Amount	50.000		Recovery	=	0.10%	
50) Toluene-d8	10.41	98	538622	45.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.30%	
62) 4-Bromofluorobenzene	13.55	95	183458	38.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.68%	

Target Compounds

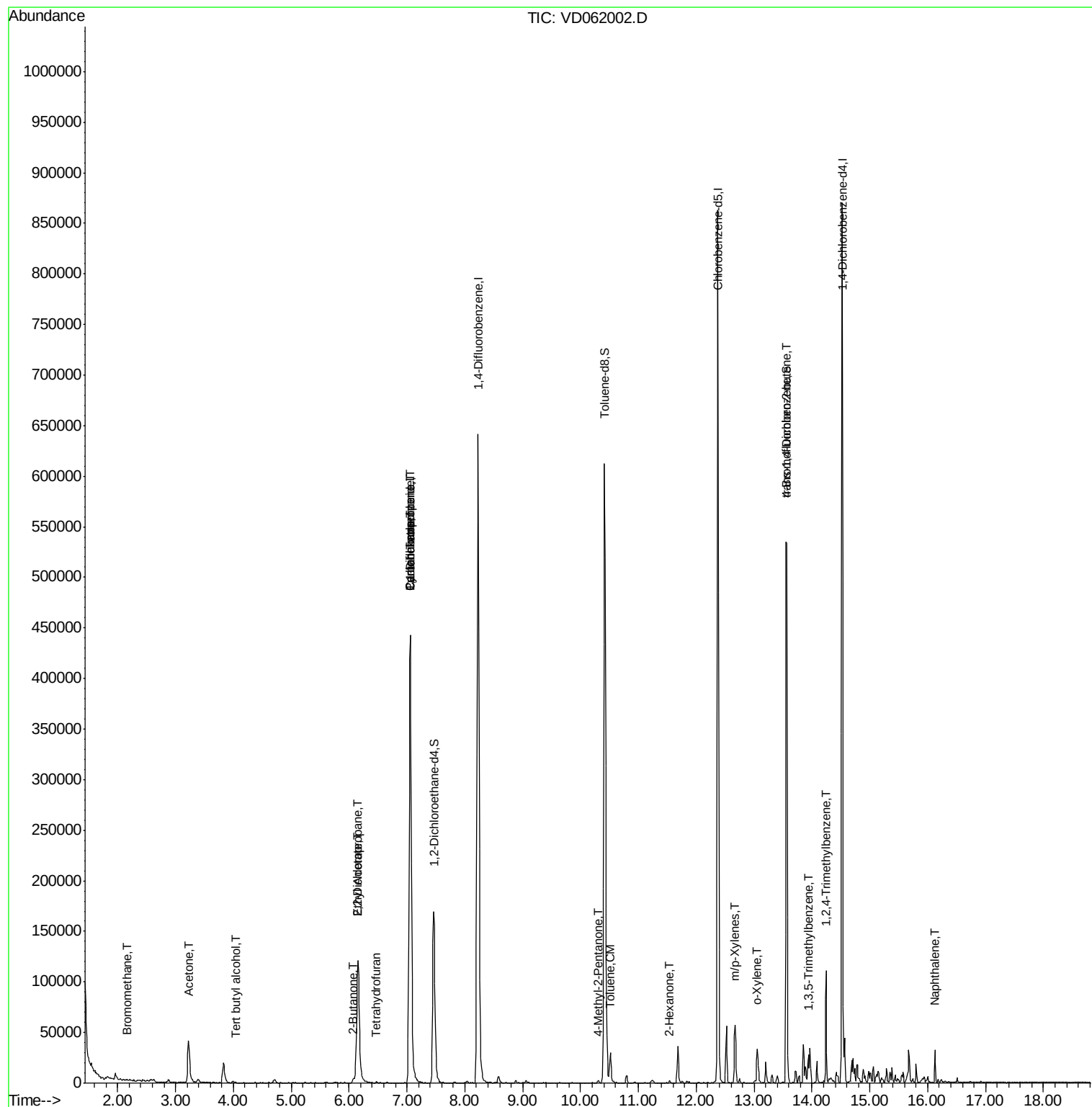
						Qvalue
5) Bromomethane	2.17	94	2044	1.609	ug/l #	12
11) Tert butyl alcohol	4.05	59	774	3.817	ug/l #	76
16) Acetone	3.22	43	82682	96.484	ug/l	94
25) 2-Butanone	6.07	43	9173	8.829	ug/l	93
26) 2,2-Dichloropropane	6.15	77	8242	1.312	ug/l #	51
29) Tetrahydrofuran	6.47	42	1121	2.190	ug/l #	43
31) Cyclohexane	7.05	56	7820	1.463	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	34622	6.130	ug/l #	44
37) Ethyl Acetate	6.15	43	6514	2.707	ug/l #	16
38) Carbon Tetrachloride	7.06	117	43943	6.140	ug/l #	15
51) 4-Methyl-2-Pentanone	10.31	43	2670	1.242	ug/l #	79
52) Toluene	10.51	92	16552	1.857	ug/l	82
59) 2-Hexanone	11.54	43	1762	1.092	ug/l	92
68) m/p-Xylenes	12.67	106	19028	3.246	ug/l	94
69) o-Xylene	13.05	106	9115	1.699	ug/l	87
80) 1,3,5-Trimethylbenzene	13.94	105	14243	1.420	ug/l	91
81) trans-1,4-Dichloro-2-buten	13.55	75	69246	95.439	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	52230	5.454	ug/l	86
95) Naphthalene	16.12	128	21261	4.683	ug/l #	94

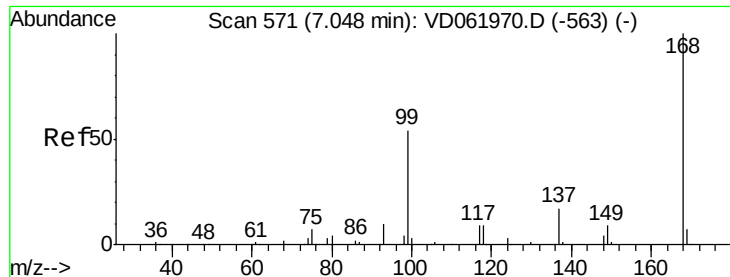
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

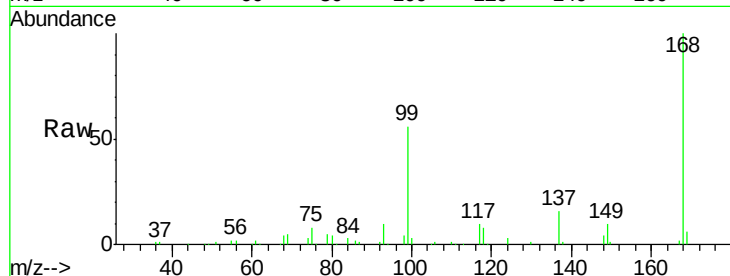
ClientSampleId :

Tot Ion:168 Resp: 458568

Ion Ratio Lower Upper

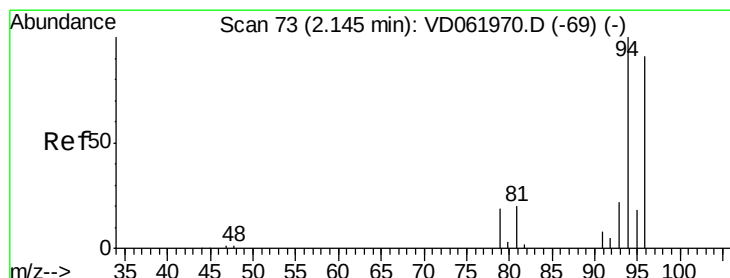
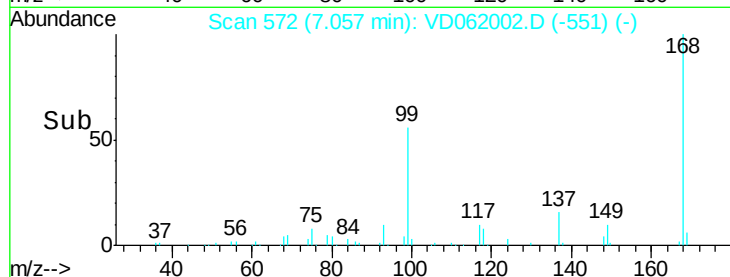
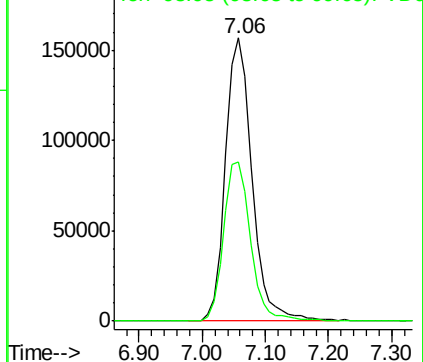
168 100

99 56.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.609 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

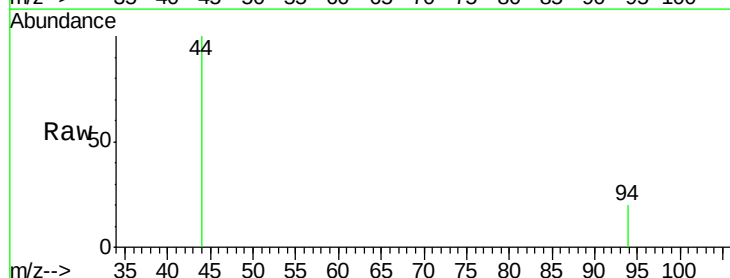
Tgt Ion: 94 Resp: 2044

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

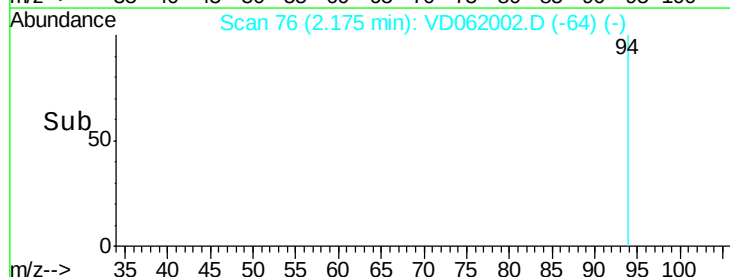
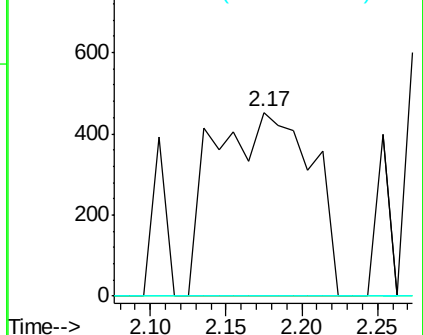
93 0.0 18.5 27.7#

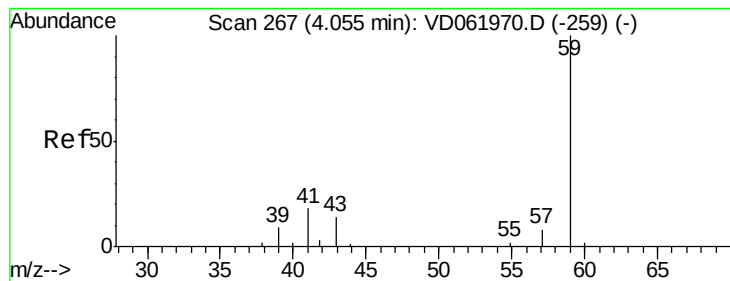


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



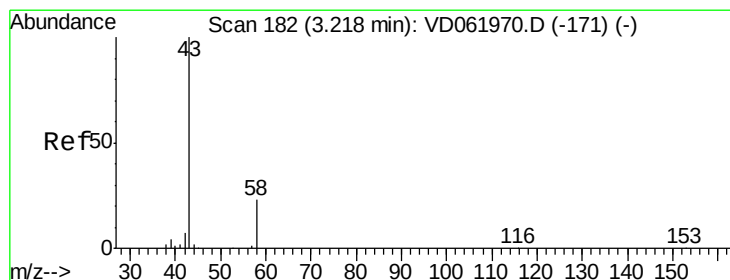
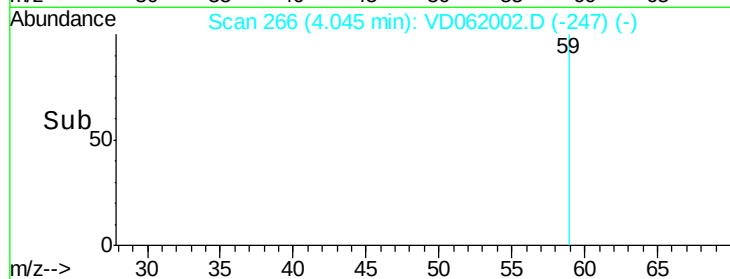
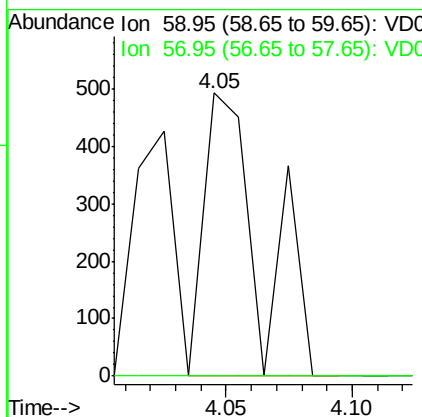
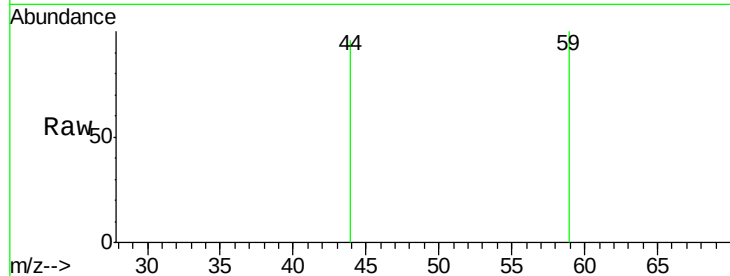


#11

Tert butyl alcohol
 Concen: 3.817 ug/l
 RT: 4.05 min Scan# 266
 Delta R.T. -0.01 min
 Lab File: VD062002.D
 Acq: 24 Apr 2019 17:21

Instrument :
 MSVOA_D
 ClientSampleId :

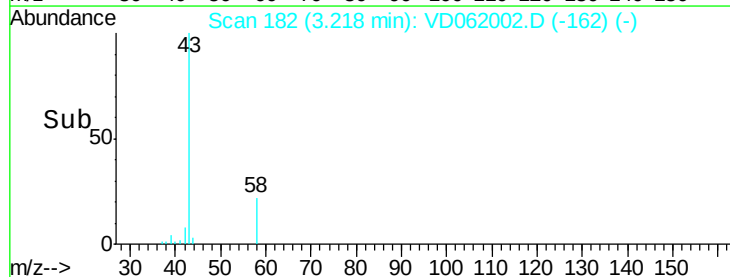
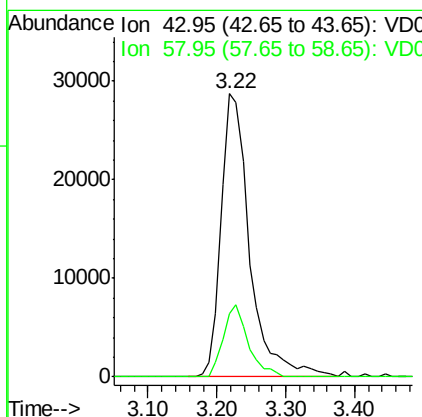
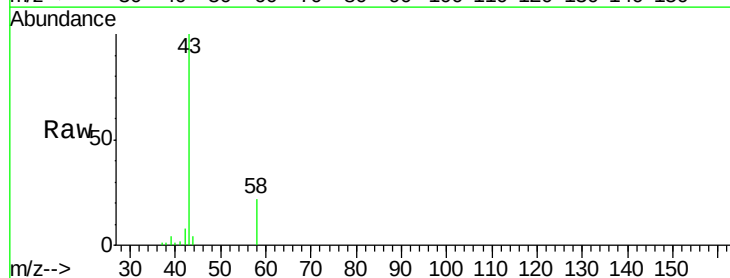
Tot Ion: 59 Resp: 774
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

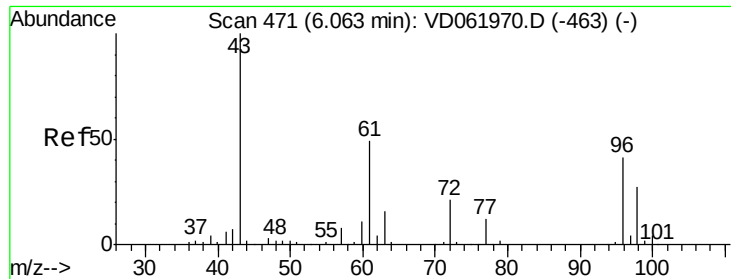


#16

Acetone
 Concen: 96.484 ug/l
 RT: 3.22 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VD062002.D
 Acq: 24 Apr 2019 17:21

Tgt Ion: 43 Resp: 82682
 Ion Ratio Lower Upper
 43 100
 58 22.1 19.9 29.9





#25

2-Butanone

Concen: 8.829 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

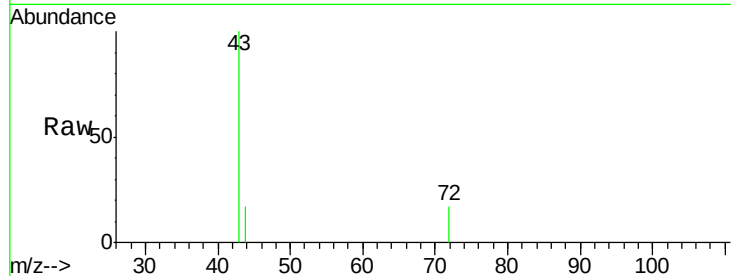
ClientSampled :

Tot Ion: 43 Resp: 9173

Ion Ratio Lower Upper

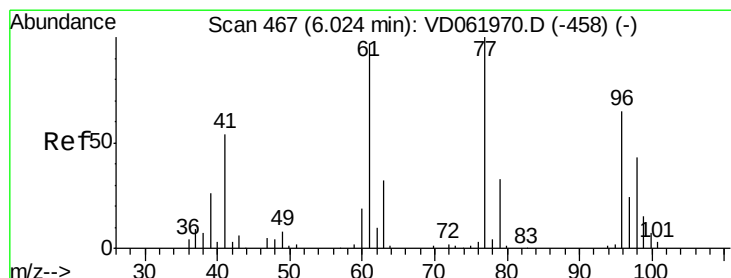
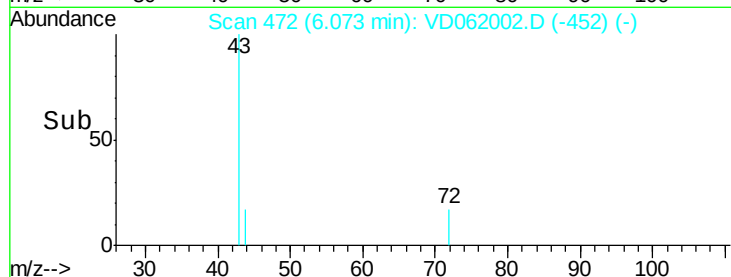
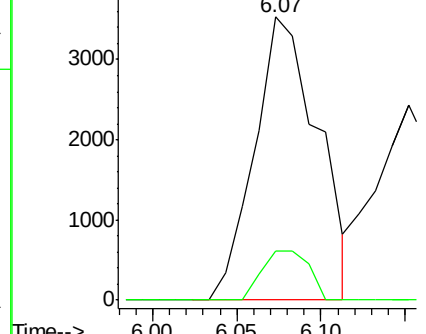
43 100

72 17.2 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.312 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.12 min

Lab File: VD062002.D

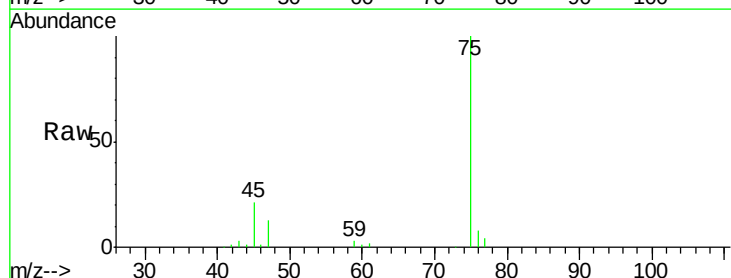
Acq: 24 Apr 2019 17:21

Tgt Ion: 77 Resp: 8242

Ion Ratio Lower Upper

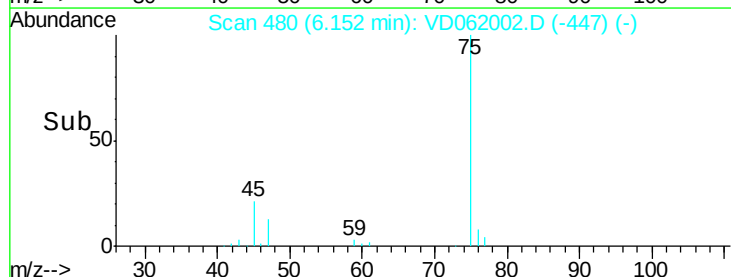
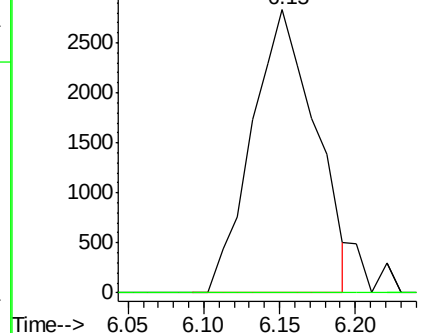
77 100

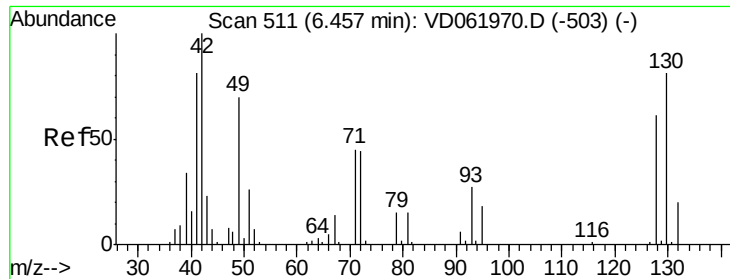
97 0.0 11.9 35.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 2.190 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.01 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

ClientSampled :

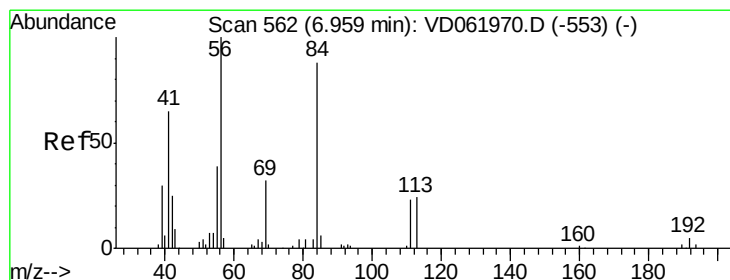
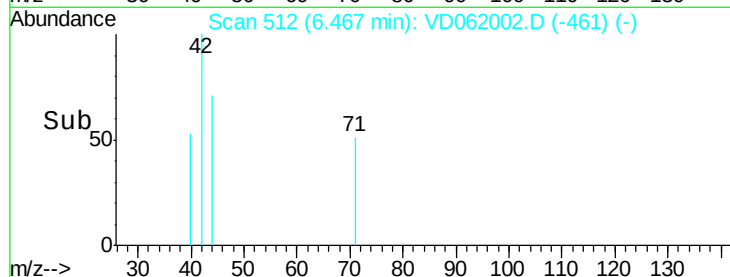
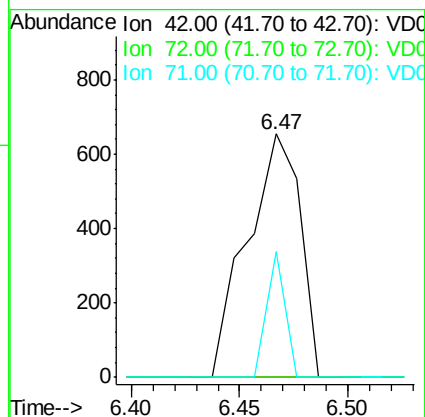
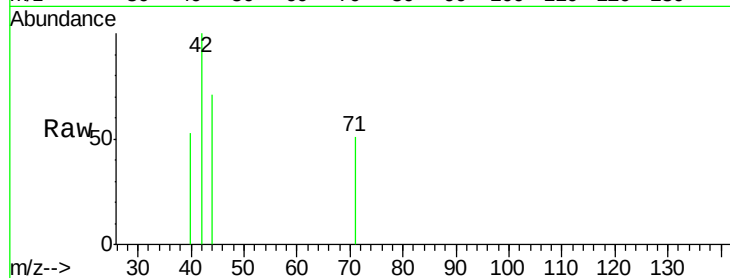
Tot Ion: 42 Resp: 1121

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 17.8 36.7 55.1#



#31

Cyclohexane

Concen: 1.463 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.08 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

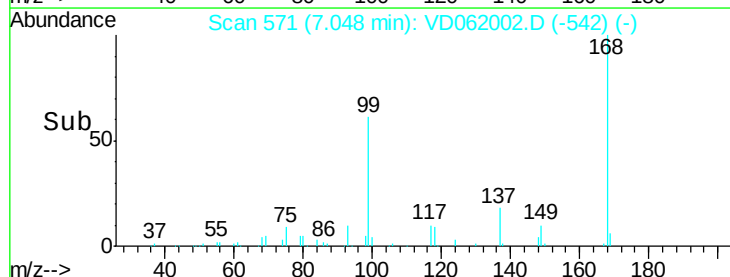
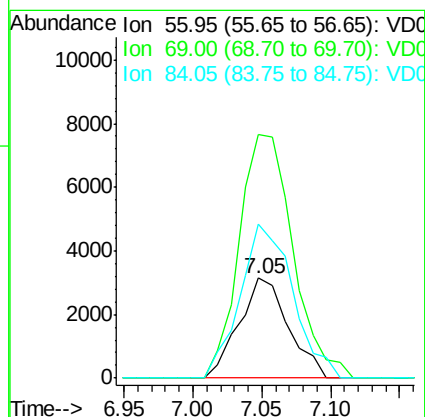
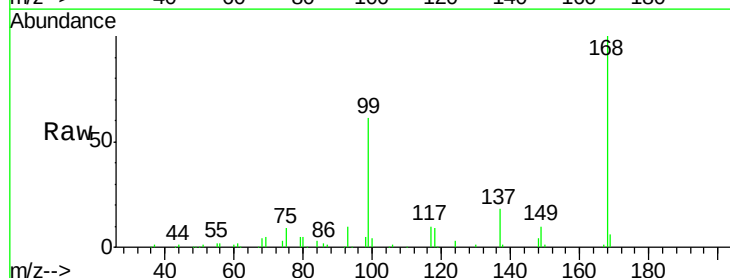
Tgt Ion: 56 Resp: 7820

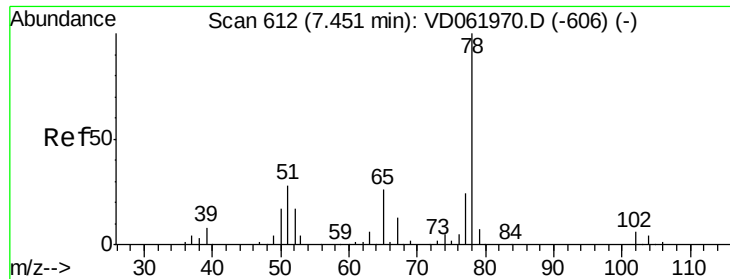
Ion Ratio Lower Upper

56 100

69 244.3 25.8 38.6#

84 155.2 72.2 108.4#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

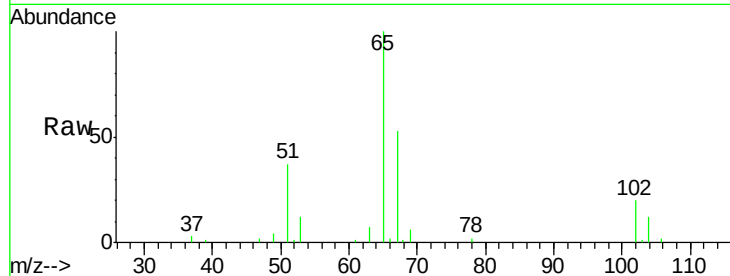
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 175314

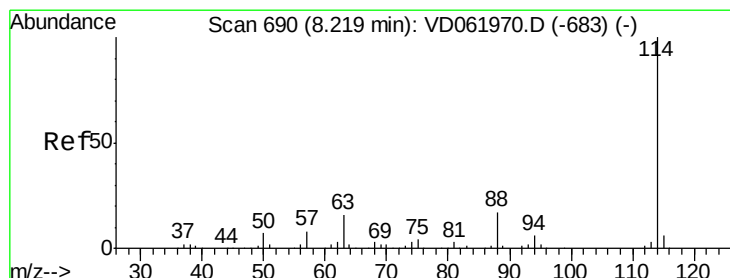
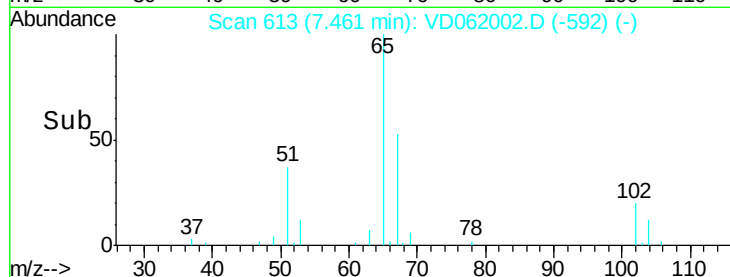
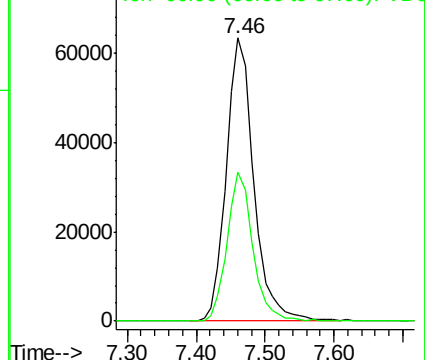
Ion Ratio Lower Upper

65 100

67 52.6 0.0 98.0



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: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

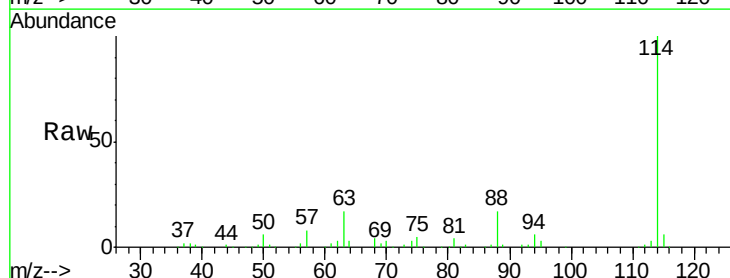
Tgt Ion: 114 Resp: 724904

Ion Ratio Lower Upper

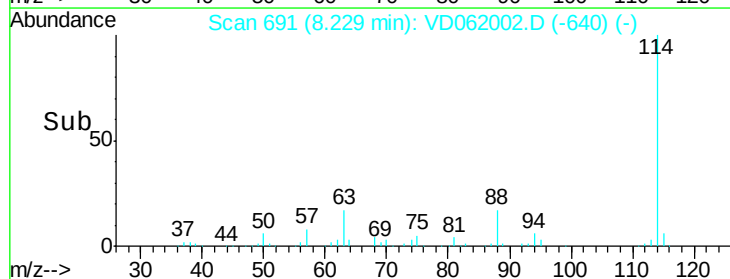
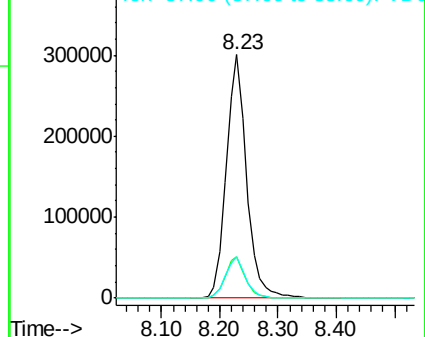
114 100

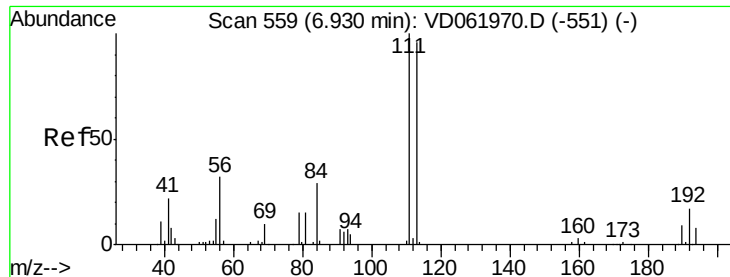
63 16.7 0.0 32.4

88 17.2 0.0 33.6



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: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

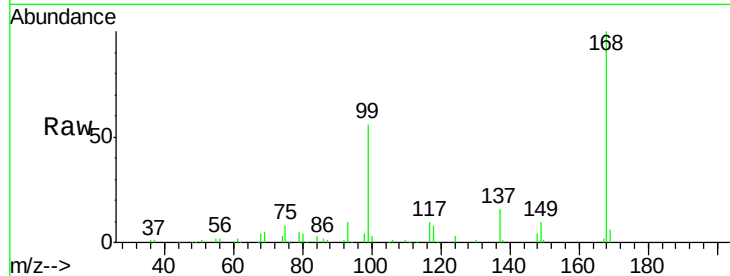
Tot Ion:113 Resp: 269

Ion Ratio Lower Upper

113 100

111 76.3 78.5 117.7#

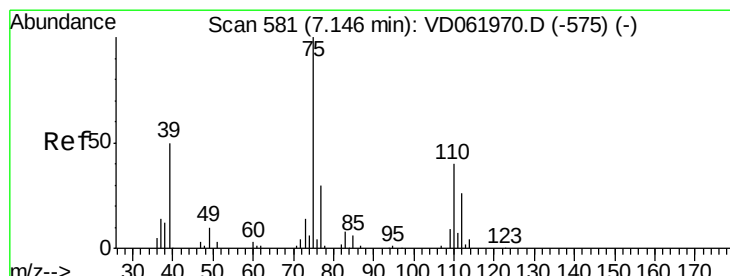
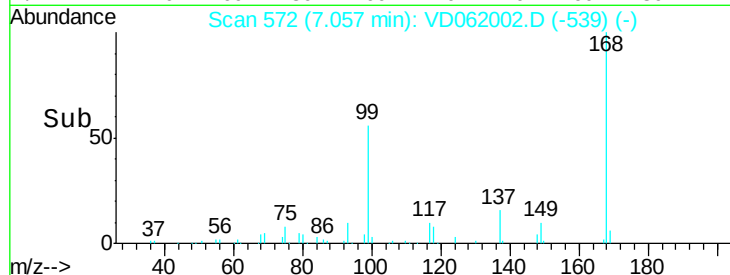
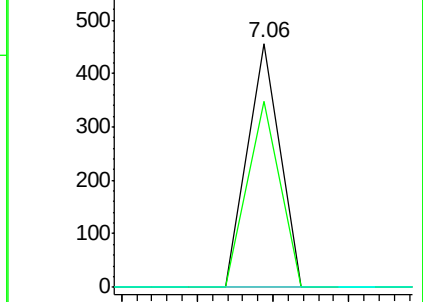
192 0.0 13.0 19.4#



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: 6.130 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

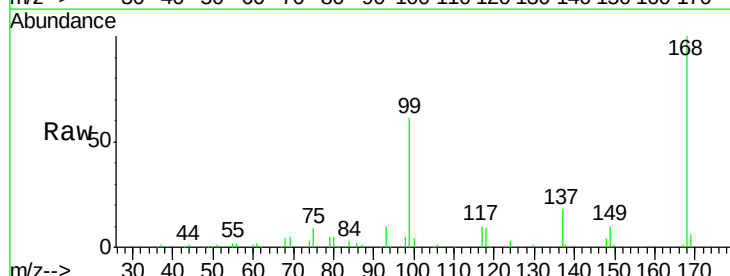
Tgt Ion: 75 Resp: 34622

Ion Ratio Lower Upper

75 100

110 5.3 19.1 57.1#

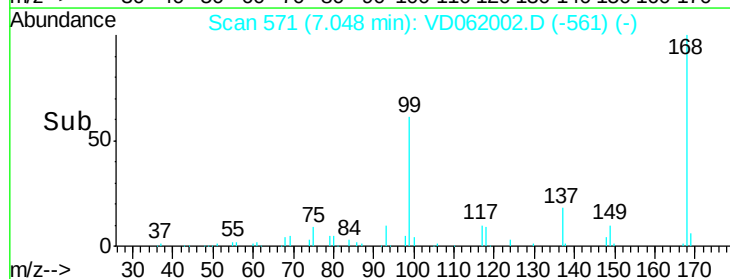
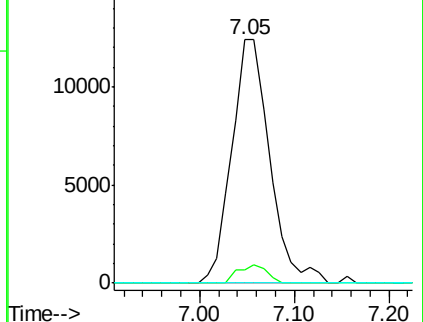
77 0.0 25.6 38.4#

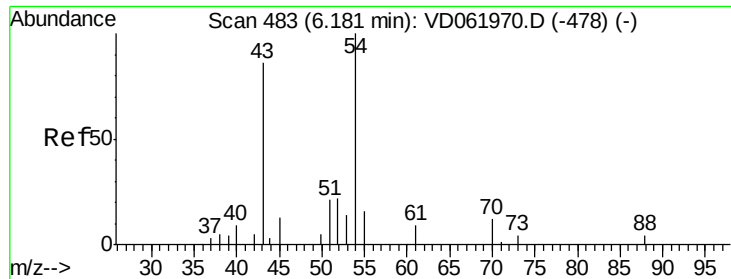


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

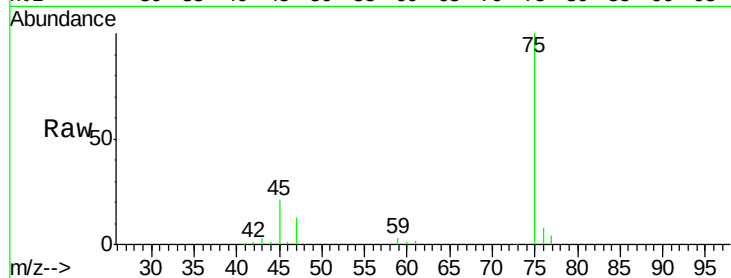




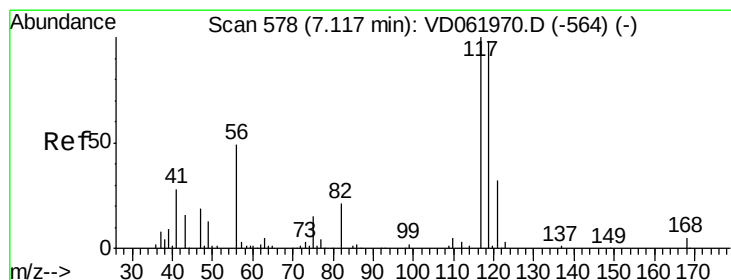
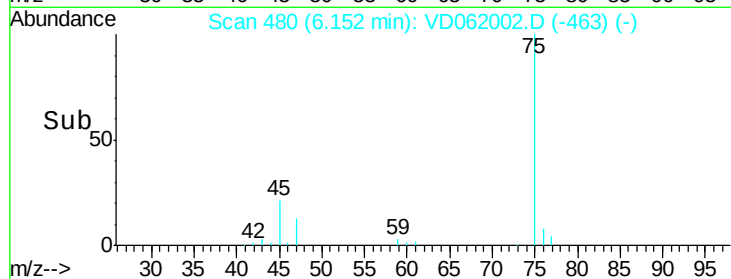
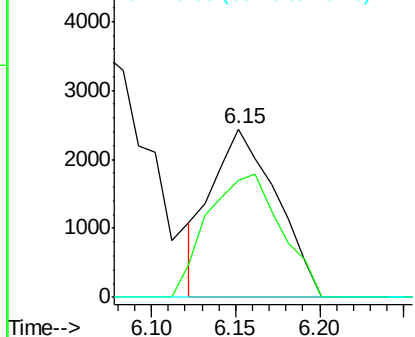
#37
Ethyl Acetate
Concen: 2.707 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.03 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 6514
Ion Ratio Lower Upper
43 100
61 69.3 14.7 22.1#
70 0.0 7.8 11.6#

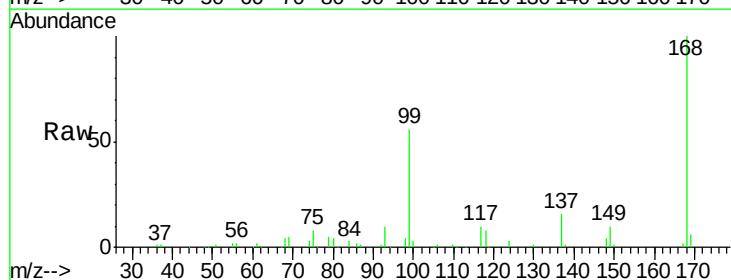


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

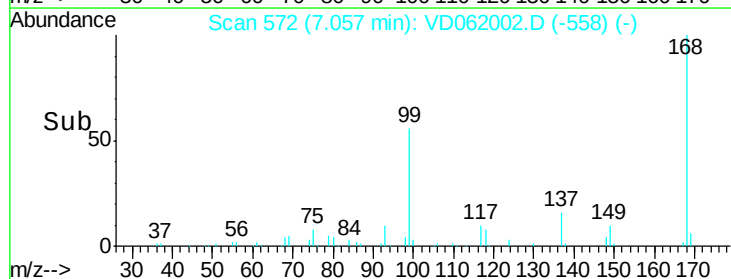
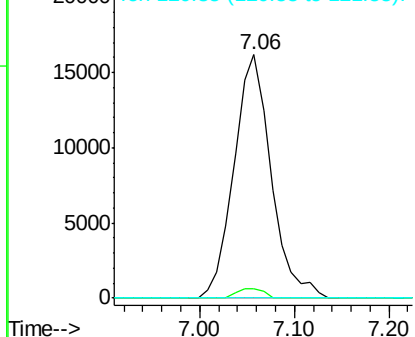


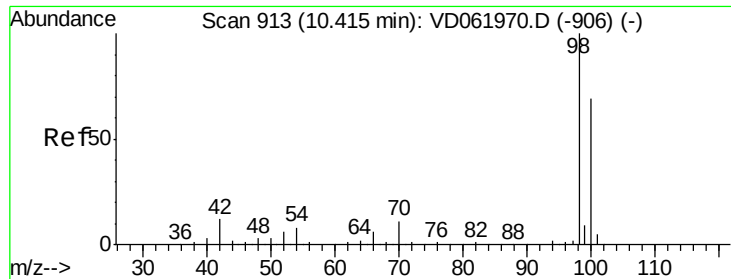
#38
Carbon Tetrachloride
Concen: 6.140 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.06 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Tgt Ion: 117 Resp: 43943
Ion Ratio Lower Upper
117 100
119 3.7 75.8 113.8#
121 0.0 25.9 38.9#



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

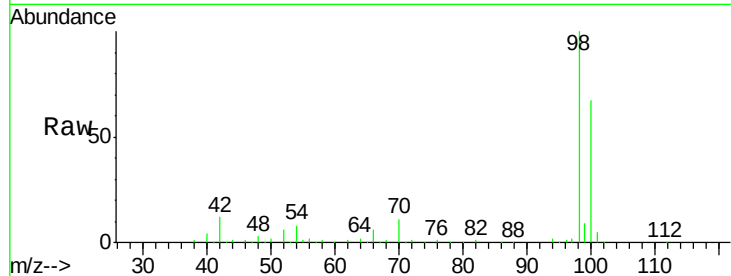




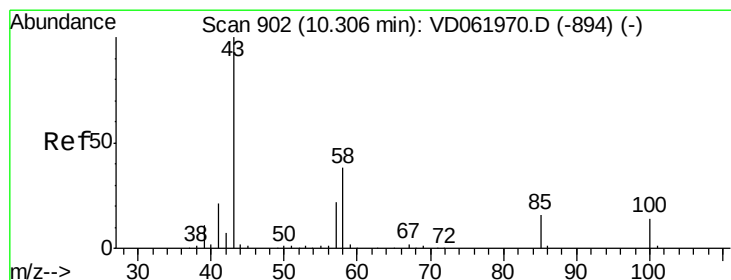
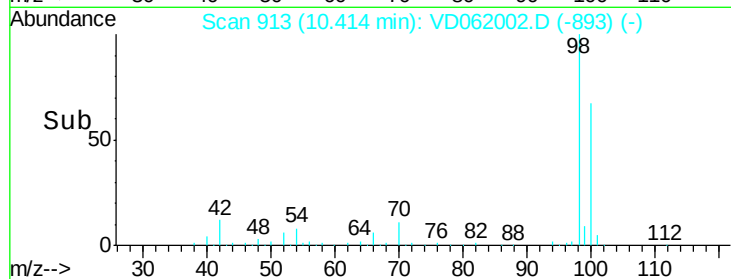
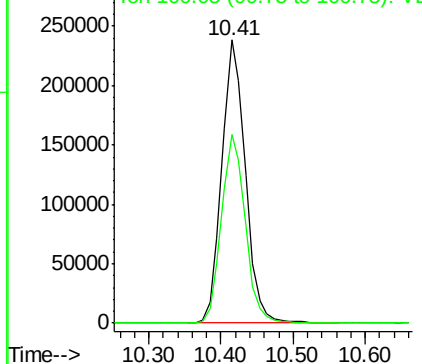
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 538622
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.8

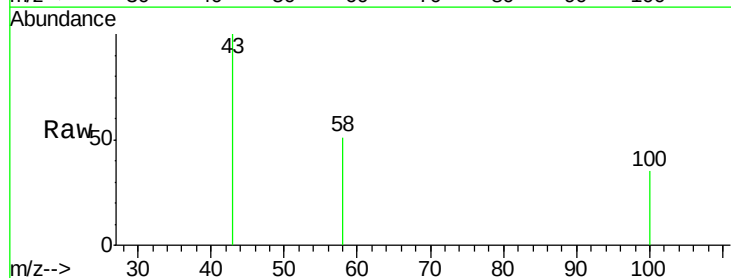


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

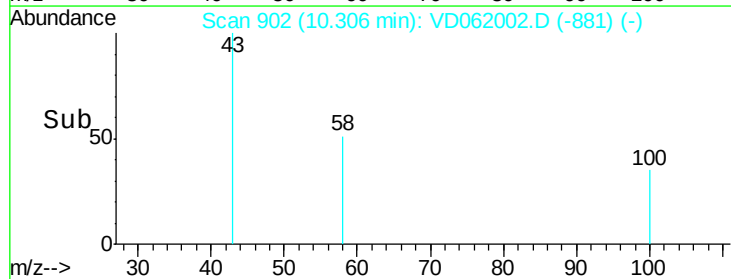
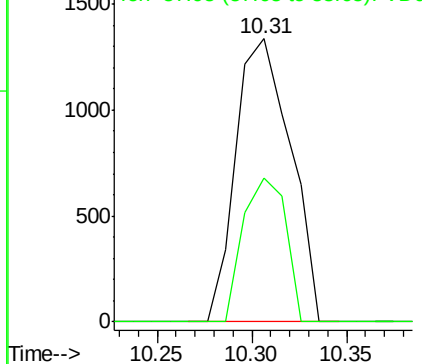


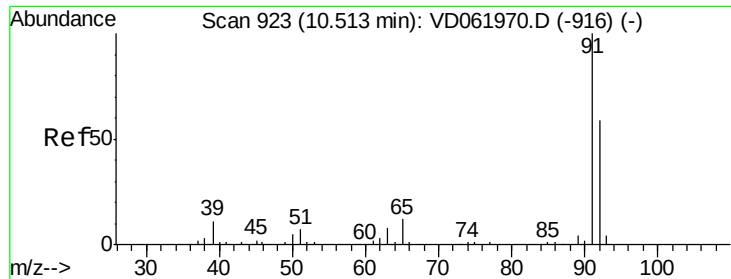
#51
4-Methyl-2-Pentanone
Concen: 1.242 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Tgt Ion: 43 Resp: 2670
Ion Ratio Lower Upper
43 100
58 50.9 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061970.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD061970.D (-894) (-)





#52

Toluene

Concen: 1.857 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

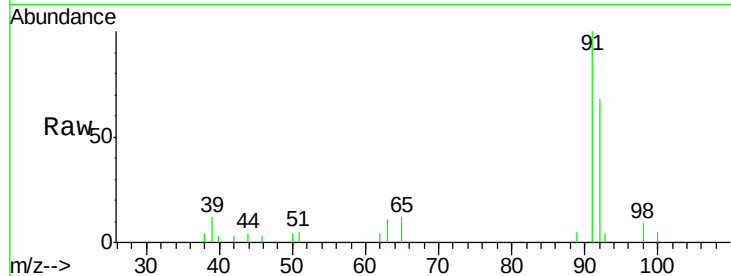
ClientSampleId :

Tot Ion: 92 Resp: 16552

Ion Ratio Lower Upper

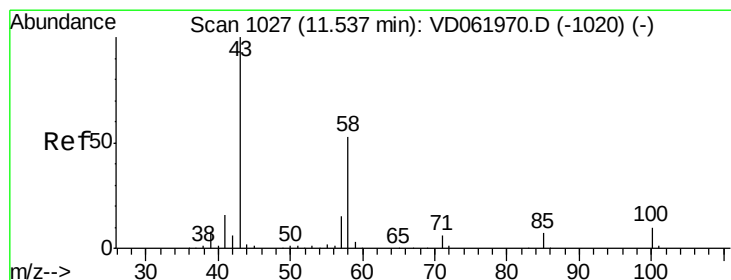
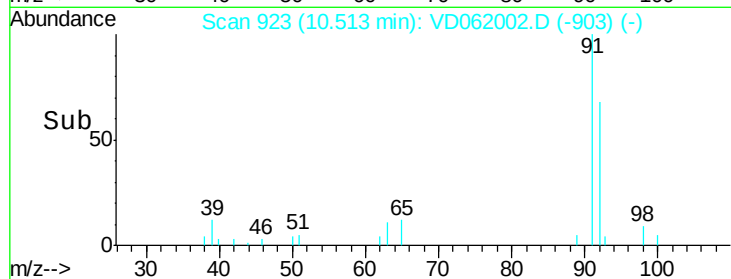
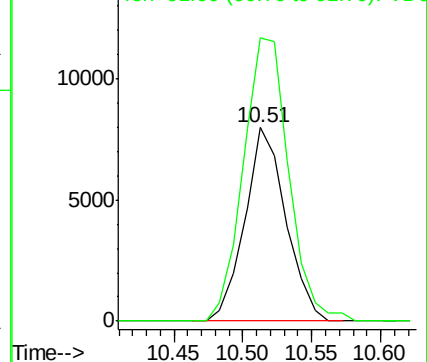
92 100

91 146.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 1.092 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.01 min

Lab File: VD062002.D

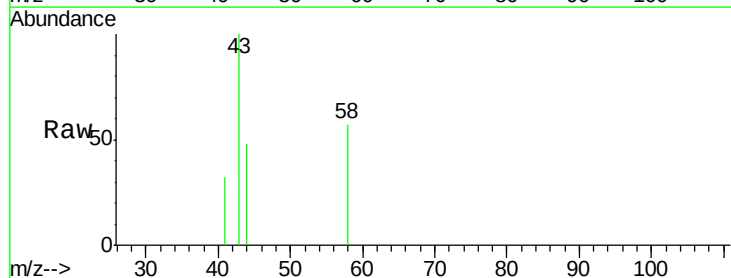
Acq: 24 Apr 2019 17:21

Tgt Ion: 43 Resp: 1762

Ion Ratio Lower Upper

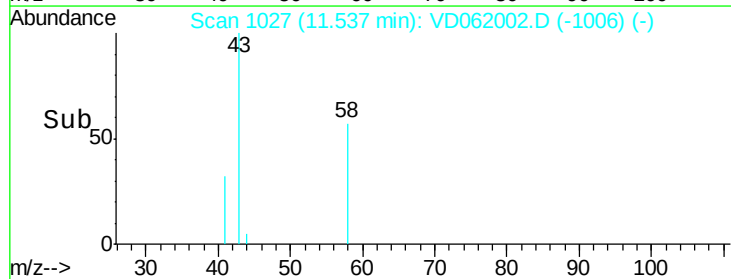
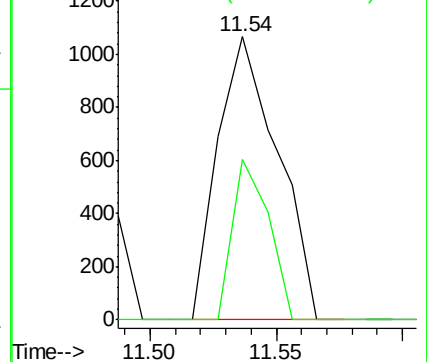
43 100

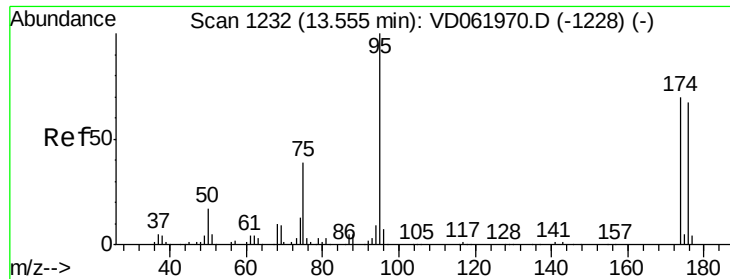
58 56.7 25.4 76.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

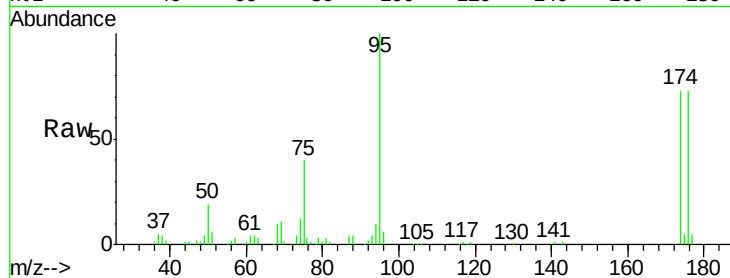




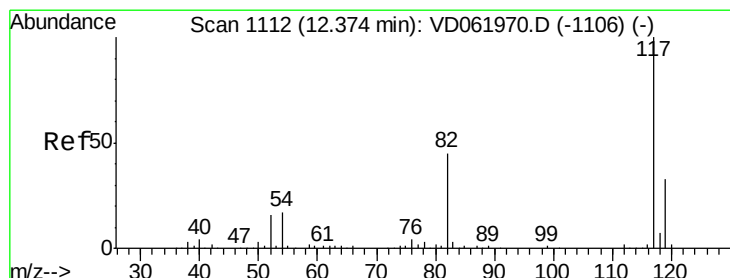
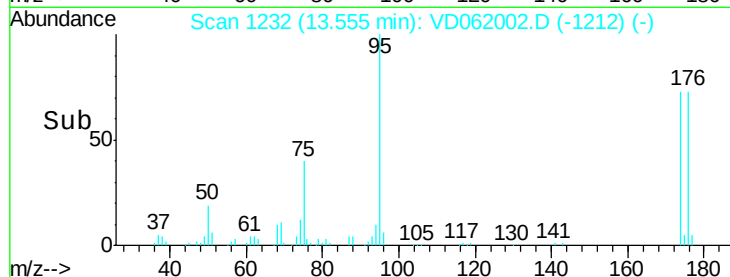
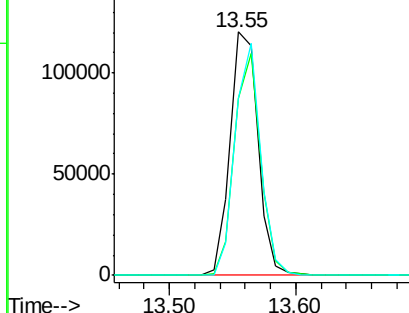
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 183458
Ion Ratio Lower Upper
95 100
174 72.6 0.0 181.8
176 72.8 0.0 174.4

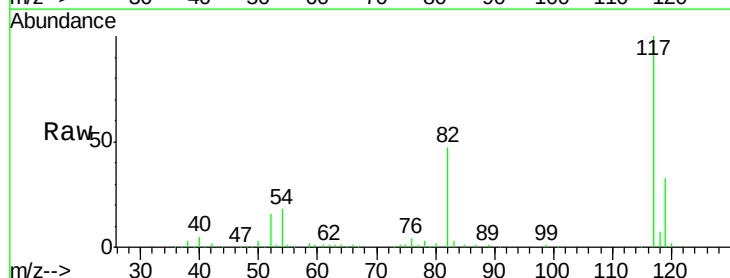


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

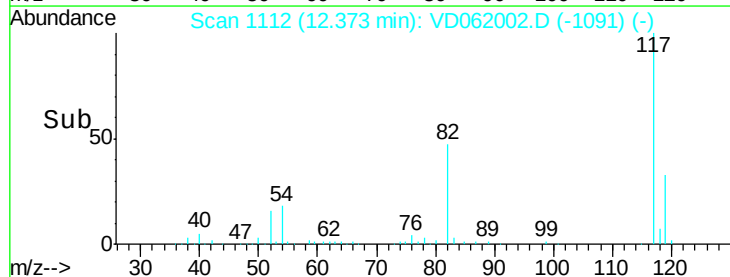
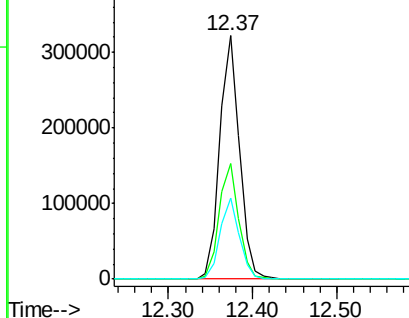


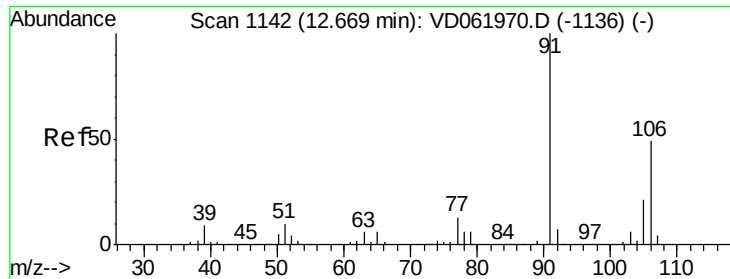
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Tgt Ion: 117 Resp: 525883
Ion Ratio Lower Upper
117 100
82 47.4 36.2 54.2
119 33.1 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

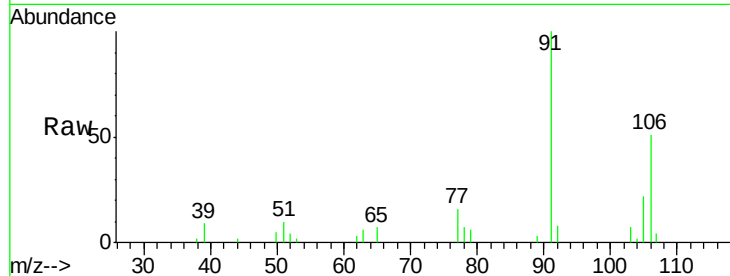




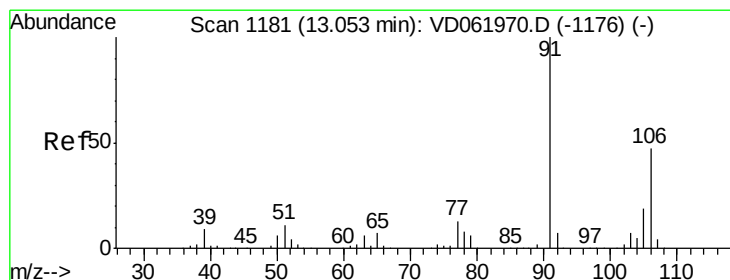
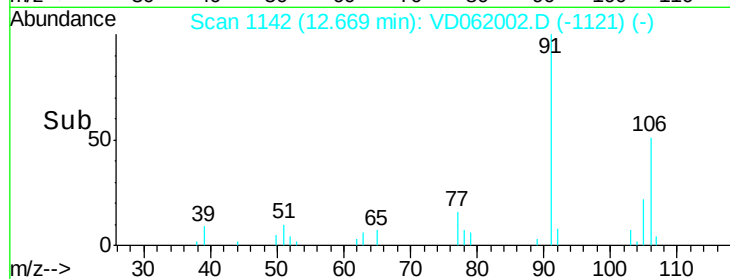
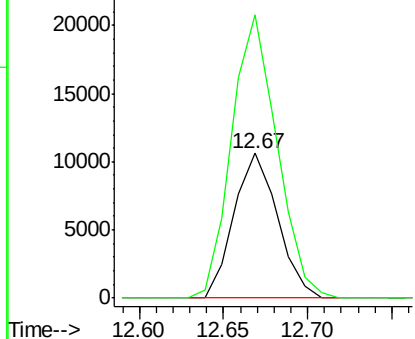
#68
m/p-Xylenes
Concen: 3.246 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 19028
Ion Ratio Lower Upper
106 100
91 195.2 164.0 246.0

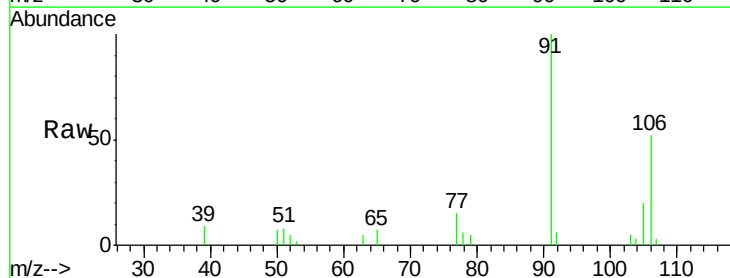


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

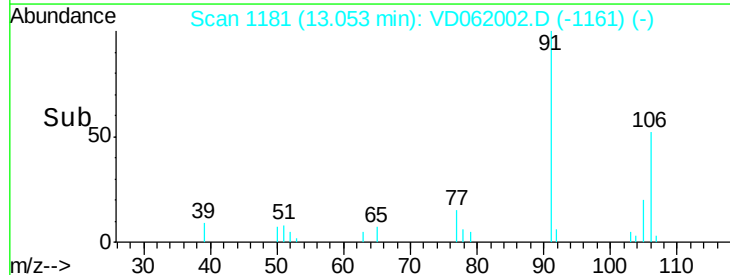
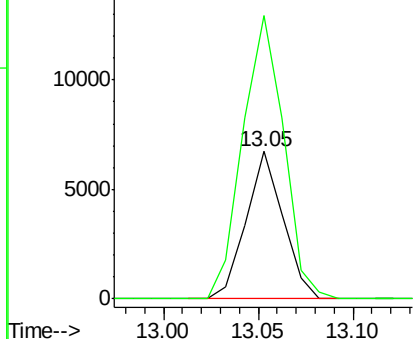


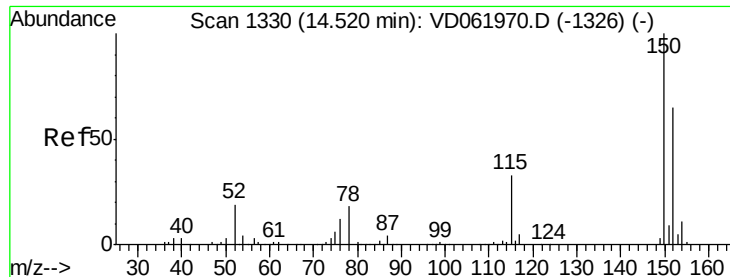
#69
o-Xylene
Concen: 1.699 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062002.D
Acq: 24 Apr 2019 17:21

Tgt Ion:106 Resp: 9115
Ion Ratio Lower Upper
106 100
91 192.3 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

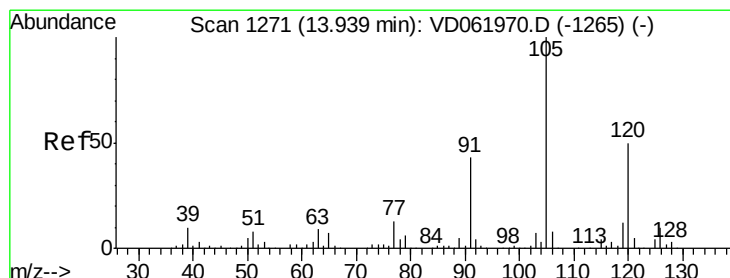
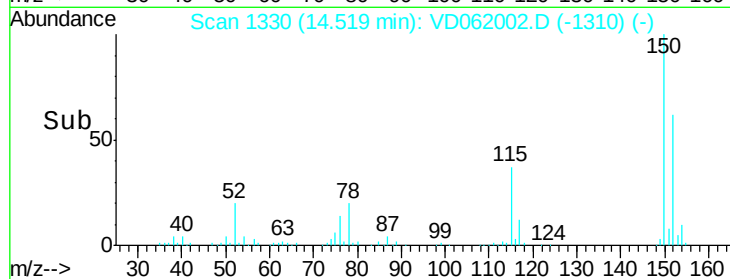
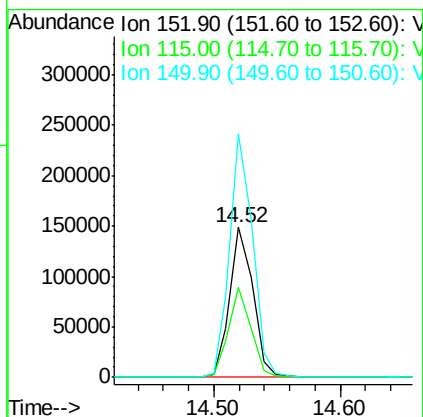
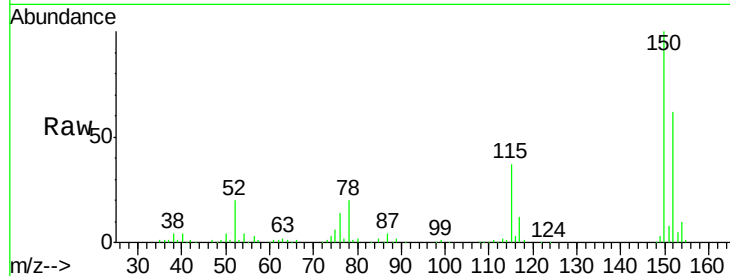




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. -0.00 min
 Lab File: VD062002.D
 Acq: 24 Apr 2019 17:21

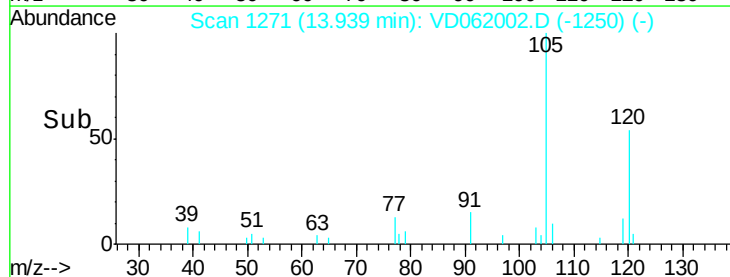
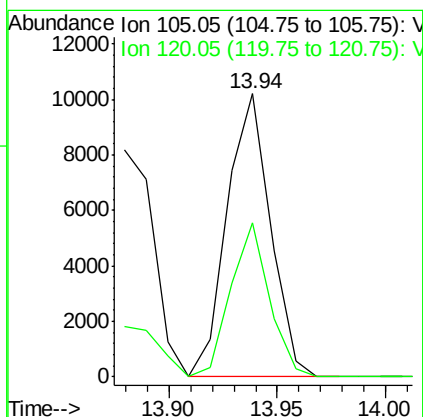
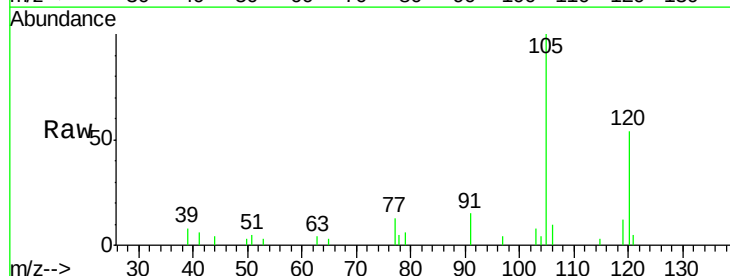
Instrument :
 MSVOA_D
 ClientSampleId :

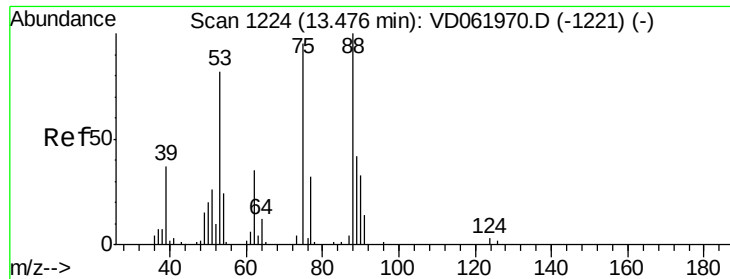
Tot Ion:152 Resp: 188546
 Ion Ratio Lower Upper
 152 100
 115 60.3 30.9 92.7
 150 162.3 0.0 314.8



#80
 1,3,5-Trimethylbenzene
 Concen: 1.420 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD062002.D
 Acq: 24 Apr 2019 17:21

Tgt Ion:105 Resp: 14243
 Ion Ratio Lower Upper
 105 100
 120 54.3 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 95.439 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :

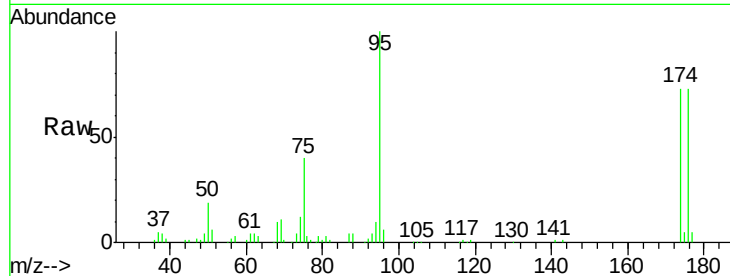
Tot Ion: 75 Resp: 69246

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

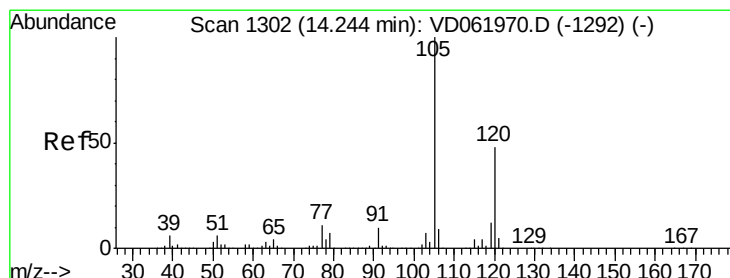
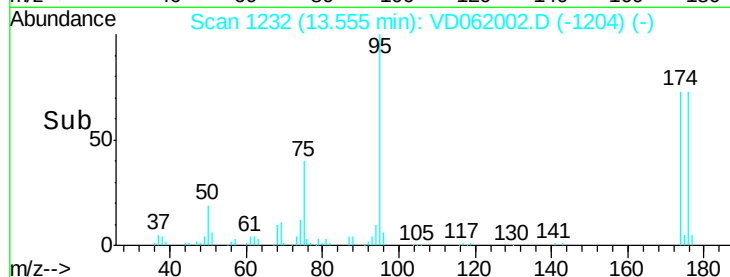
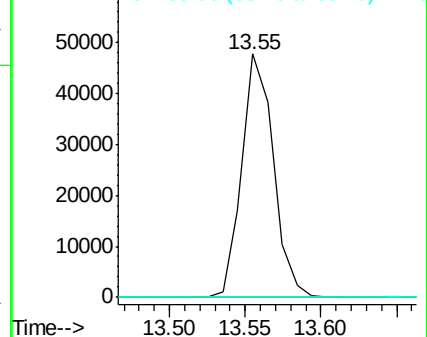
89 0.0 35.0 52.6#



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: 5.454 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD062002.D

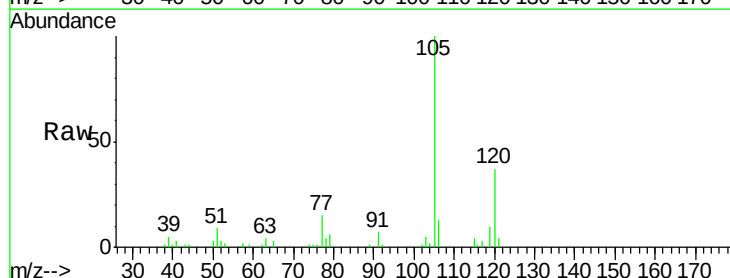
Acq: 24 Apr 2019 17:21

Tgt Ion:105 Resp: 52230

Ion Ratio Lower Upper

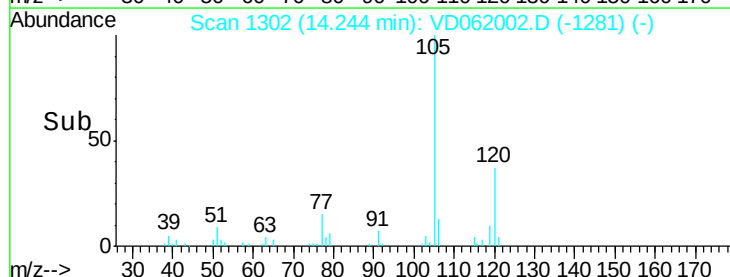
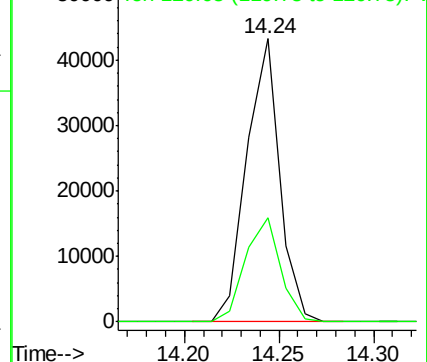
105 100

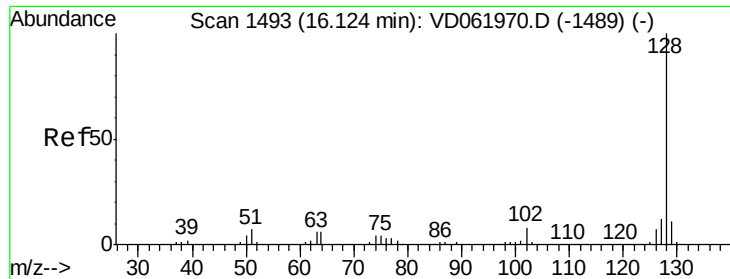
120 37.0 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 4.683 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

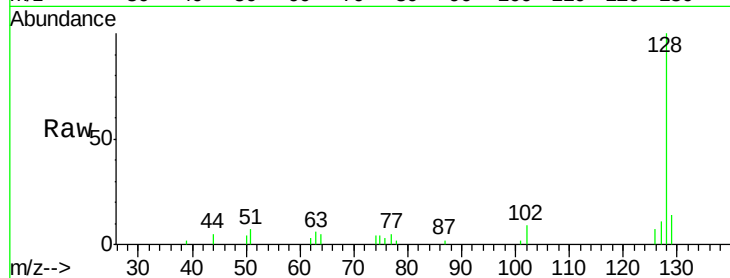
Lab File: VD062002.D

Acq: 24 Apr 2019 17:21

Instrument :

MSVOA_D

ClientSampleId :



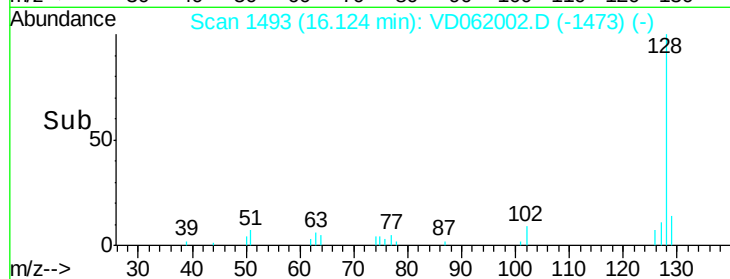
Tot Ion:128 Resp: 21261

Ion Ratio Lower Upper

128 100

127 11.4 9.8 14.8

129 14.4 8.8 13.2#



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

