

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031419\
 Data File : VD061062.D
 Acq On : 14 Mar 2019 14:03
 Operator : VA/AP
 Sample : K1846-11
 Misc : 6.01g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-1-DRE

Quant Time: Mar 15 02:11:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	663303	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1096809	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	930532	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	381018	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	202807	36.73	ug/l	0.00
Spiked Amount			Recovery	=	73.46%	
35) Dibromofluoromethane	6.92	113	328179	40.32	ug/l	0.00
Spiked Amount			Recovery	=	80.64%	
50) Toluene-d8	10.40	98	767613	37.55	ug/l	0.00
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	13.55	95	278989	35.18	ug/l	0.00
Spiked Amount			Recovery	=	70.36%	

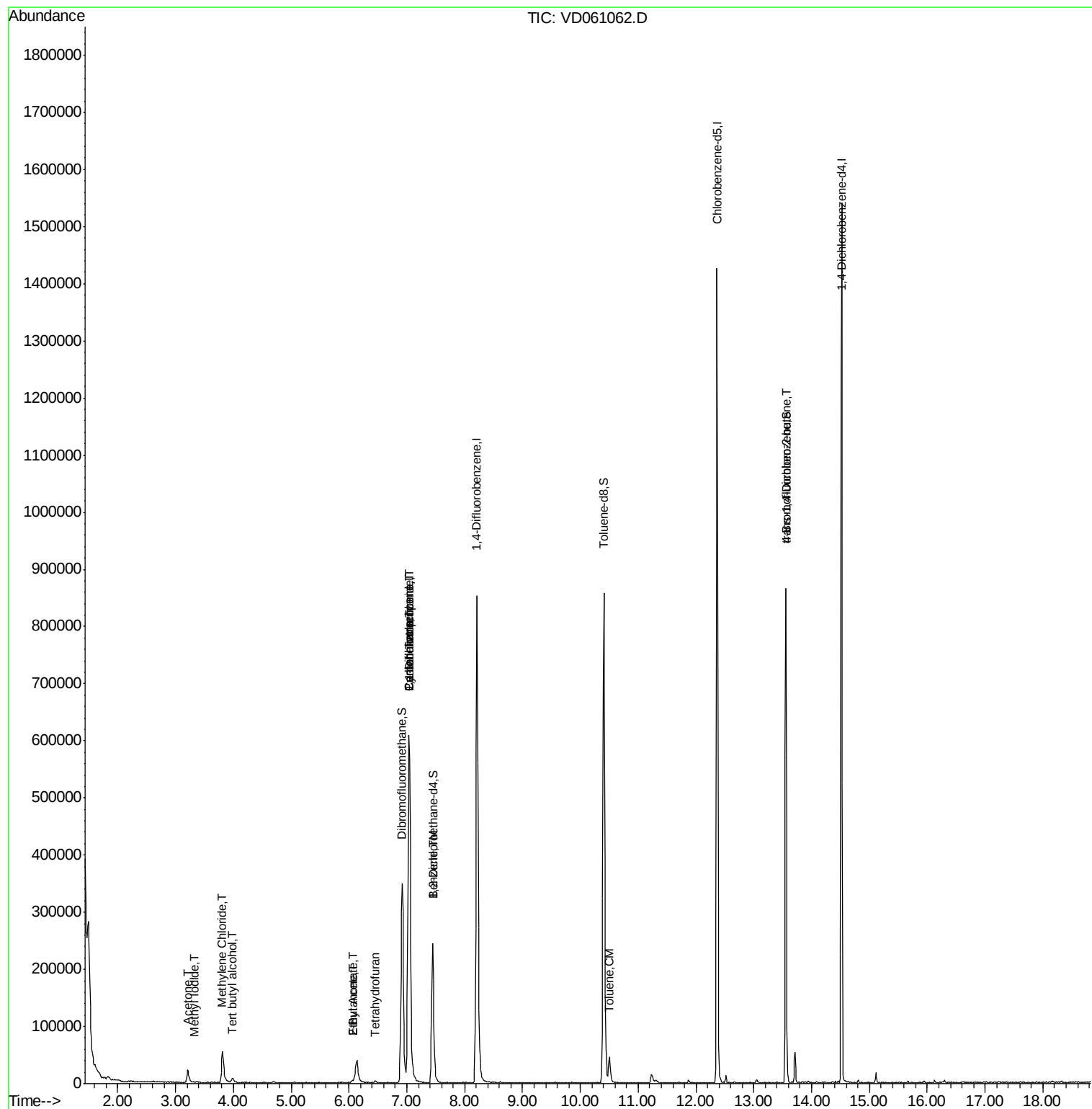
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	199	Below Cal	#	1
10) Methyl Iodide	3.32	142	1849	3.089	ug/l #	39
11) Tert butyl alcohol	3.99	59	7597	21.614	ug/l #	75
16) Acetone	3.21	43	44419	28.134	ug/l	98
20) Methylene Chloride	3.82	84	42051	1.299	ug/l #	88
25) 2-Butanone	6.06	43	9362	5.226	ug/l	95
29) Tetrahydrofuran	6.46	42	1690	1.737	ug/l #	77
31) Cyclohexane	7.03	56	11322	1.159	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	46844	4.955	ug/l #	46
37) Ethyl Acetate	6.06	43	9362	2.110	ug/l #	66
38) Carbon Tetrachloride	7.04	117	63568	6.104	ug/l #	15
40) Benzene	7.45	78	45613	1.931	ug/l #	87
52) Toluene	10.50	92	24609	1.675	ug/l	88
81) trans-1,4-Dichloro-2-buten	13.55	75	102287	63.293	ug/l #	17

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

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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

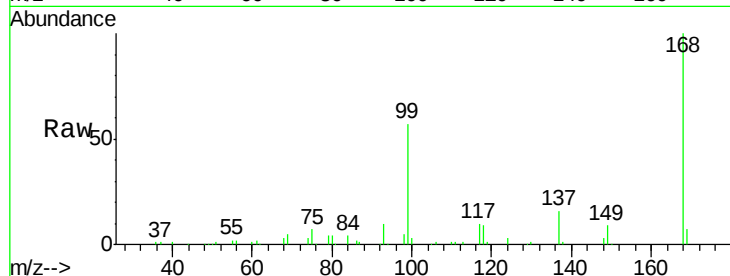
TP-1-DRE

Tot Ion:168 Resp: 663303

Ion Ratio Lower Upper

168 100

99 56.6 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

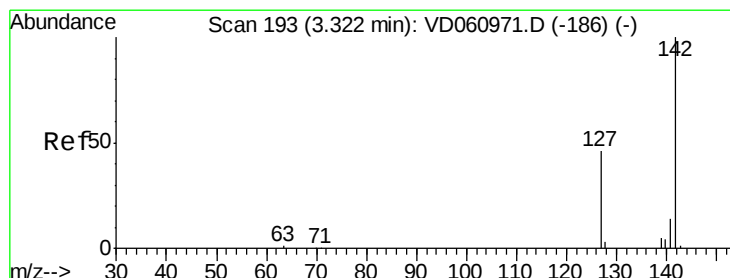
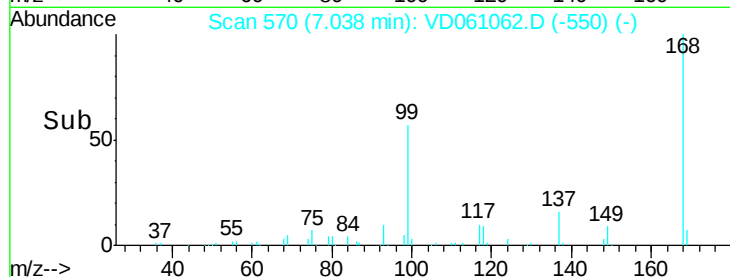
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 3.089 ug/l

RT: 3.32 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

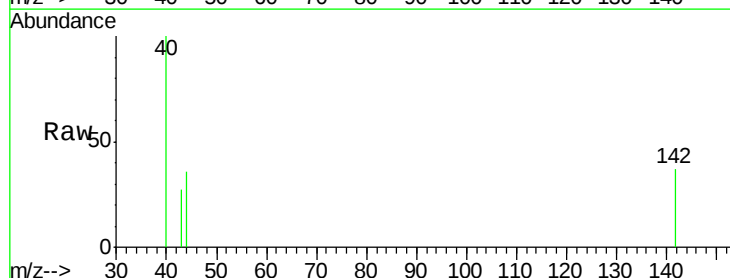
Tgt Ion:142 Resp: 1849

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.32

800

600

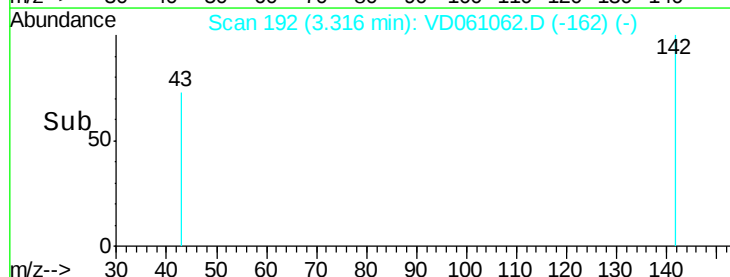
400

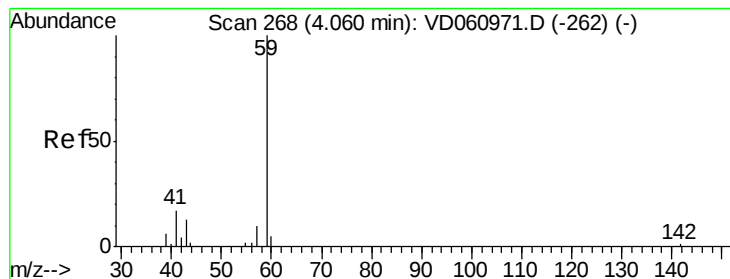
200

0

3.25 3.30 3.35 3.40

Time-->





#11

Tert butyl alcohol

Concen: 21.614 ug/l

RT: 3.99 min Scan# 260

Delta R.T. -0.07 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

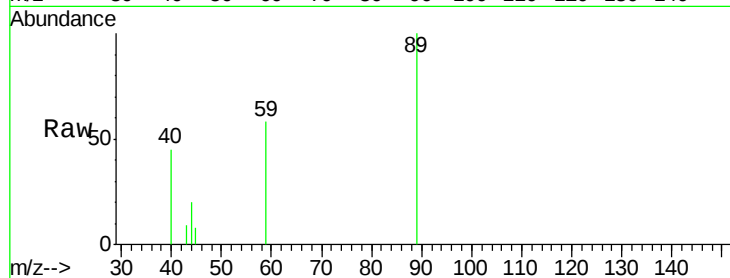
TP-1-DRE

Tot Ion: 59 Resp: 7597

Ion Ratio Lower Upper

59 100

57 0.0 7.1 10.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.99

2500

2000

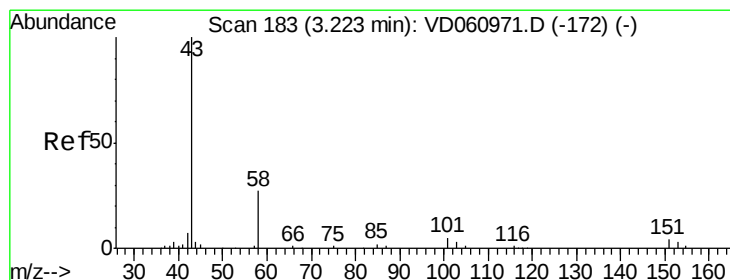
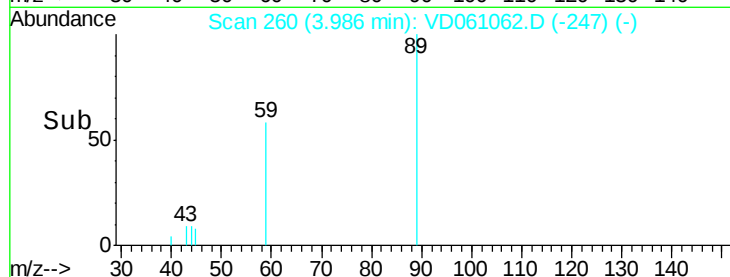
1500

1000

500

0

Time-->



#16

Acetone

Concen: 28.134 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD061062.D

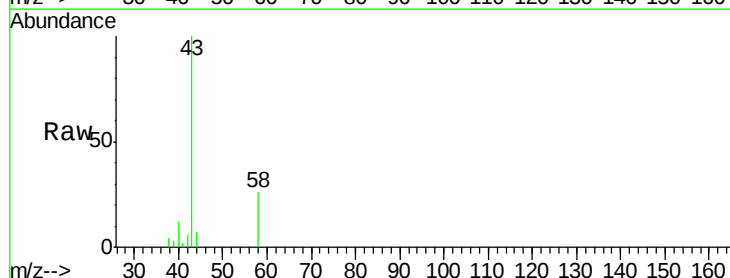
Acq: 14 Mar 2019 14:03

Tgt Ion: 43 Resp: 44419

Ion Ratio Lower Upper

43 100

58 26.1 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

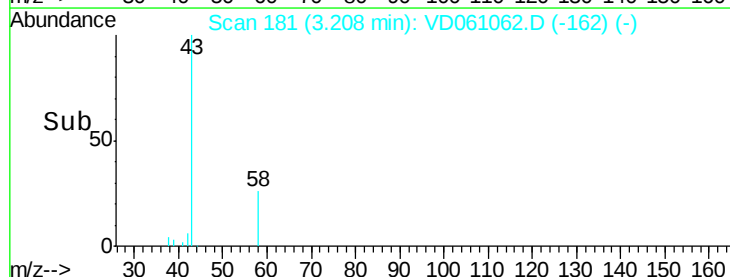
15000

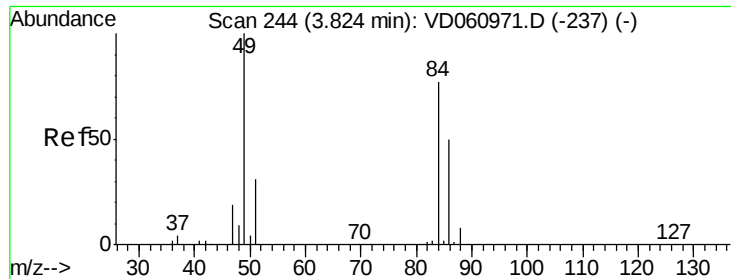
10000

5000

0

Time-->

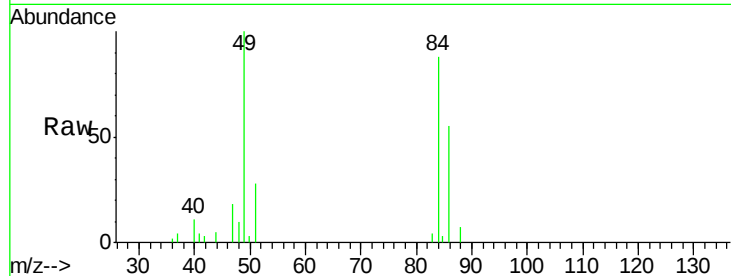




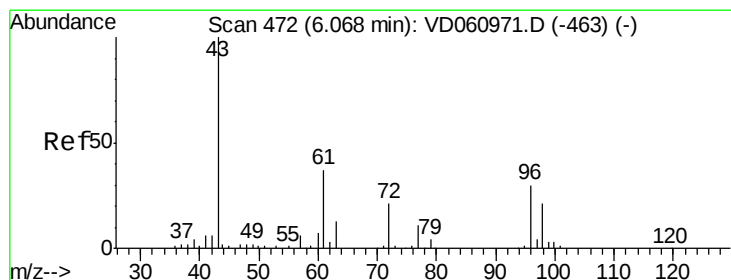
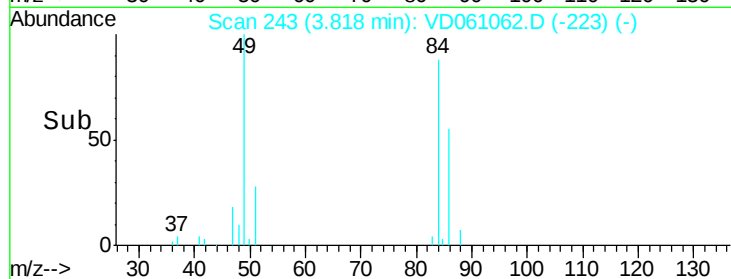
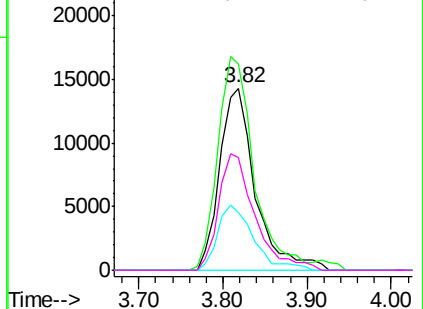
#20
Methylene Chloride
Concen: 1.299 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD061062.D
Acq: 14 Mar 2019 14:03

Instrument :
MSVOA_D
ClientSampleId :
TP-1-DRE

Tot Ion: 84 Resp: 42051
Ion Ratio Lower Upper
84 100
49 113.0 104.2 156.2
51 31.8 32.3 48.5#
86 61.8 52.3 78.5

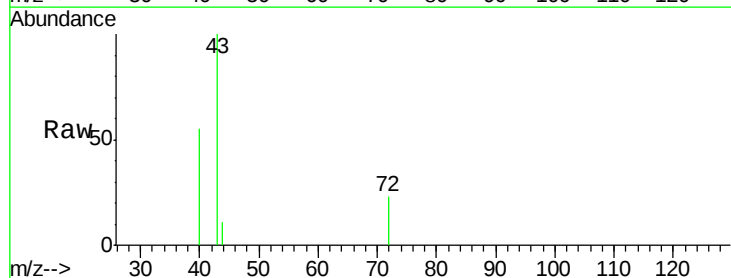


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

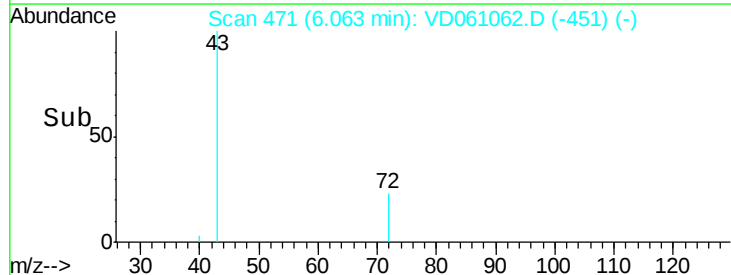
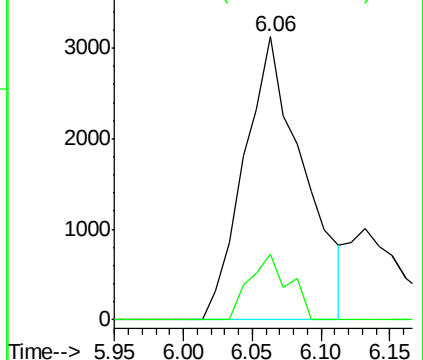


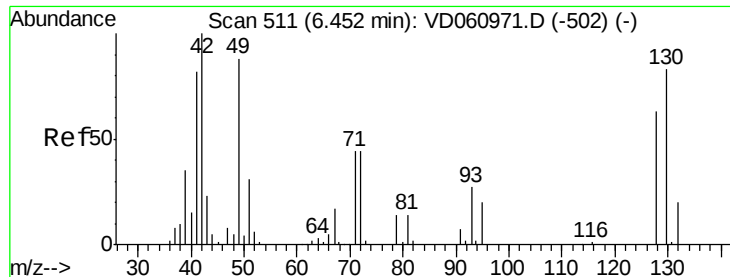
#25
2-Butanone
Concen: 5.226 ug/l
RT: 6.06 min Scan# 471
Delta R.T. -0.01 min
Lab File: VD061062.D
Acq: 14 Mar 2019 14:03

Tgt Ion: 43 Resp: 9362
Ion Ratio Lower Upper
43 100
72 23.4 16.7 25.1



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





#29

Tetrahydrofuran

Concen: 1.737 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

TP-1-DRE

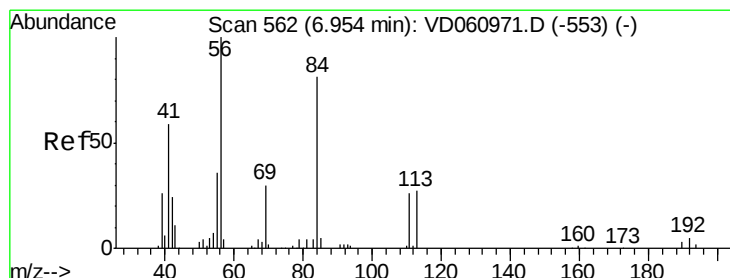
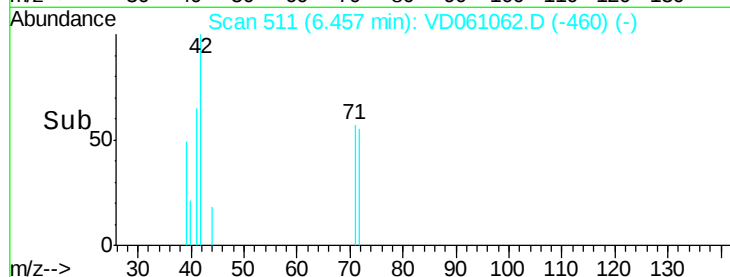
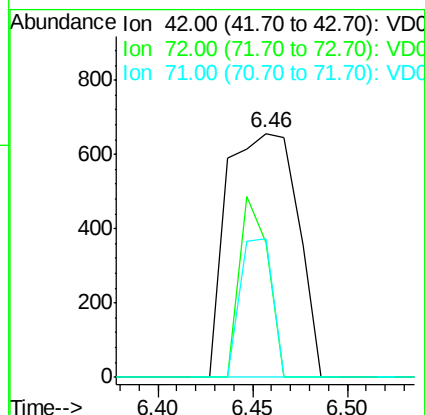
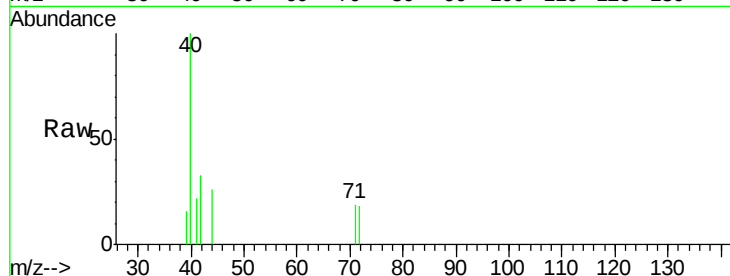
Tot Ion: 42 Resp: 1690

Ion Ratio Lower Upper

42 100

72 29.7 34.5 51.7#

71 25.9 33.8 50.6#



#31

Cyclohexane

Concen: 1.159 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.07 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

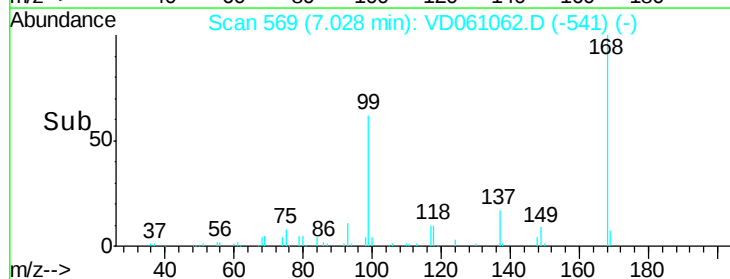
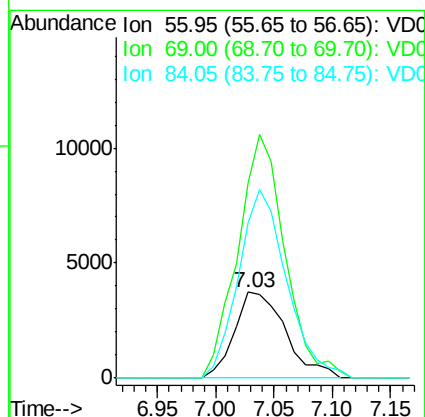
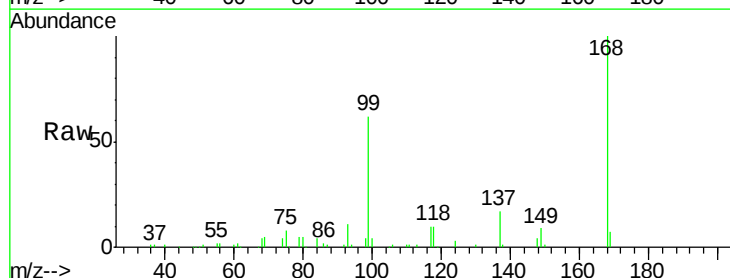
Tgt Ion: 56 Resp: 11322

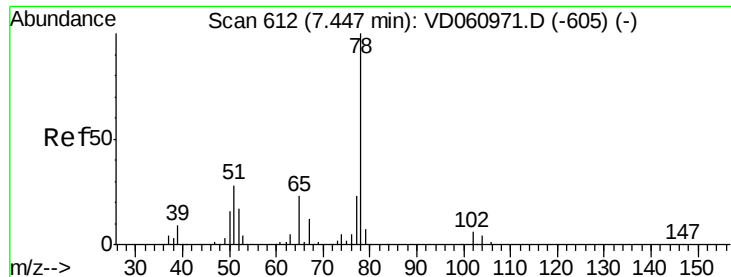
Ion Ratio Lower Upper

56 100

69 225.9 24.0 36.0#

84 180.2 65.8 98.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

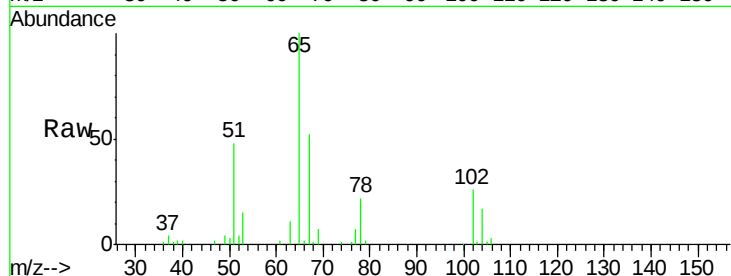
TP-1-DRE

Tot Ion: 65 Resp: 202807

Ion Ratio Lower Upper

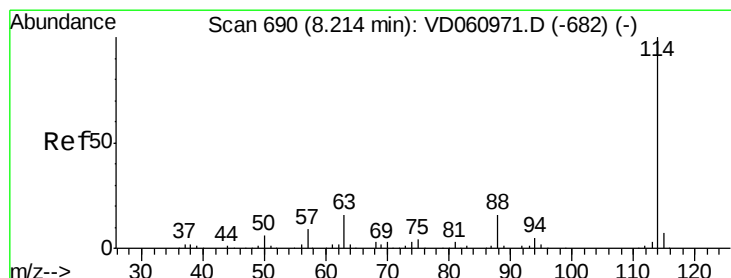
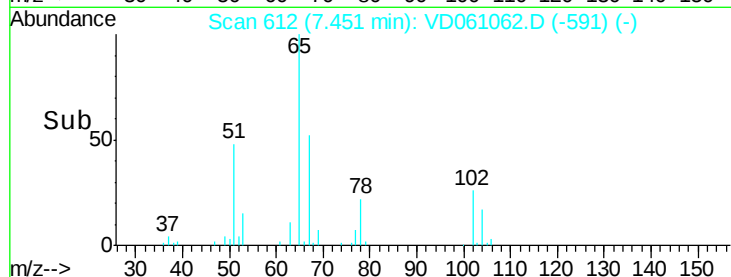
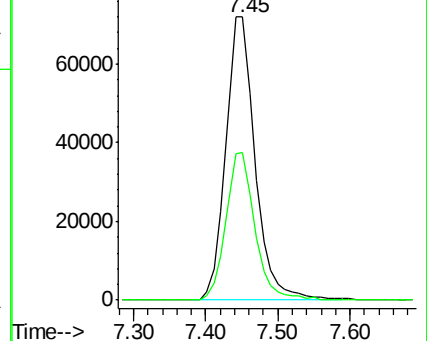
65 100

67 52.0 0.0 105.2



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: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

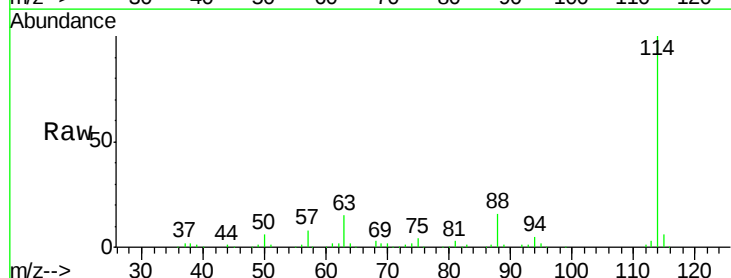
Tgt Ion: 114 Resp: 1096809

Ion Ratio Lower Upper

114 100

63 14.8 0.0 31.4

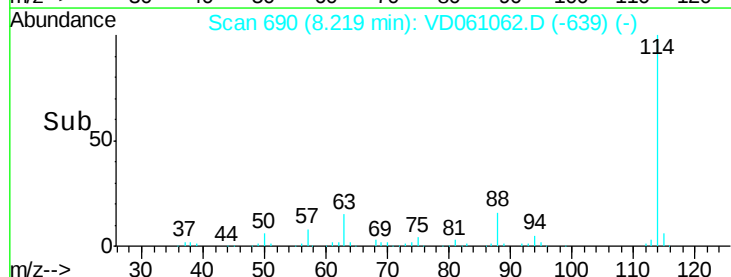
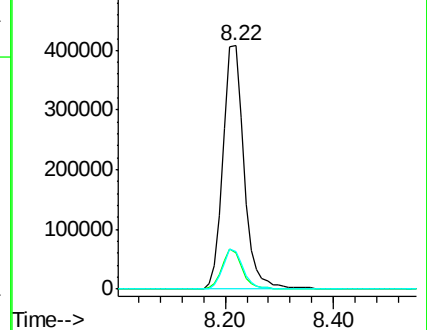
88 15.5 0.0 33.0

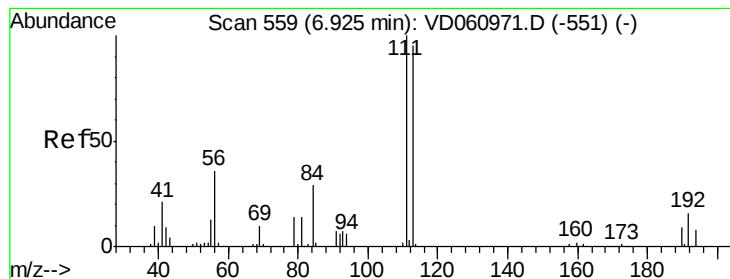


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

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TP-1-DRE

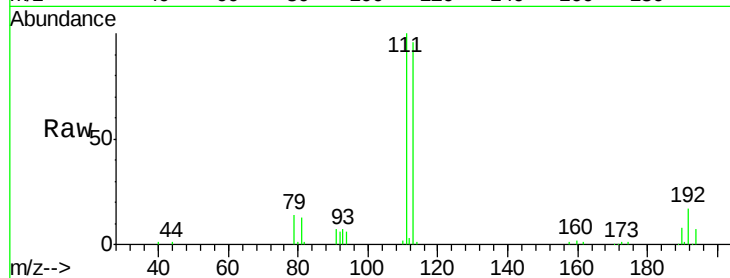
Tot Ion:113 Resp: 328179

Ion Ratio Lower Upper

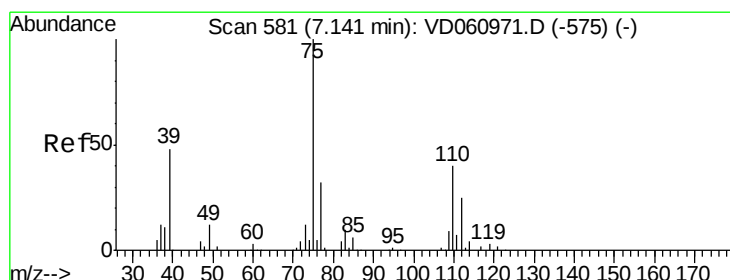
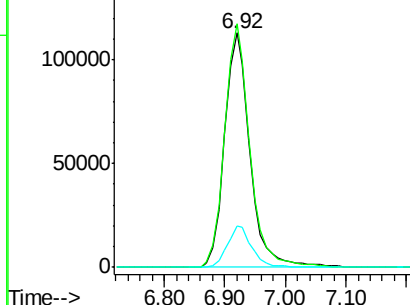
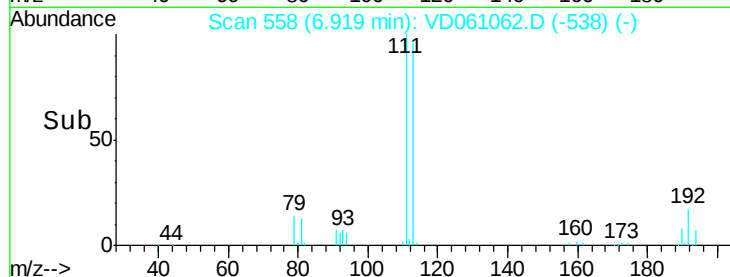
113 100

111 104.0 84.2 126.4

192 17.4 13.1 19.7



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



#36

1,1-Dichloropropene

Concen: 4.955 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.10 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

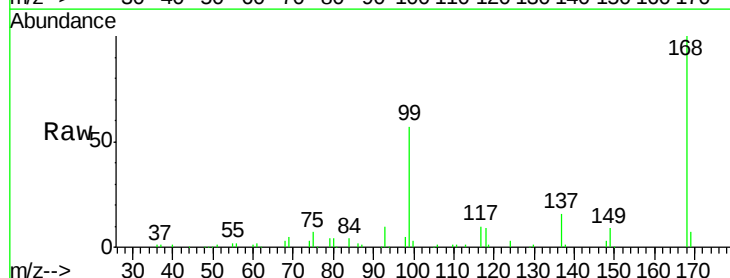
Tgt Ion: 75 Resp: 46844

Ion Ratio Lower Upper

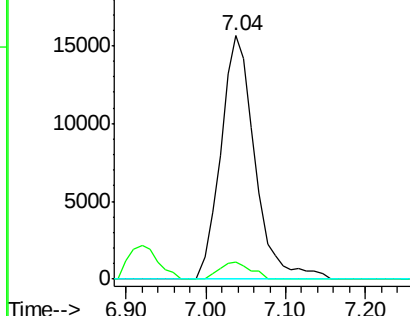
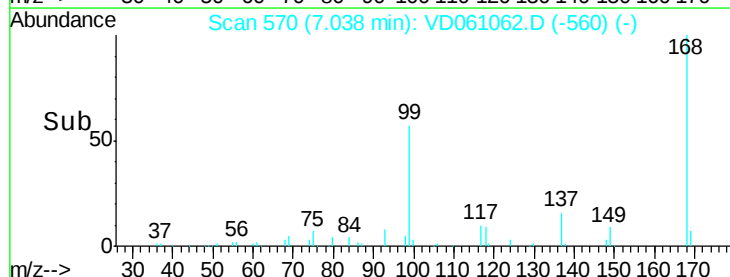
75 100

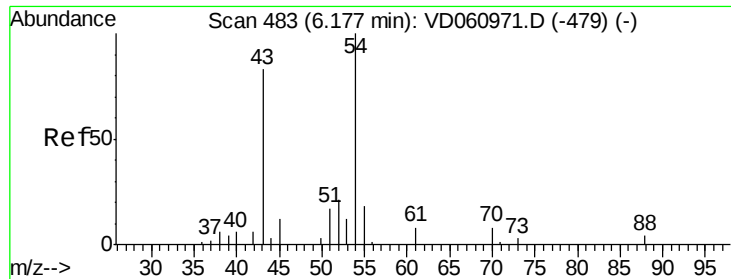
110 7.2 19.7 59.1#

77 0.0 24.7 37.1#



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





#37

Ethyl Acetate

Concen: 2.110 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.11 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

TP-1-DRE

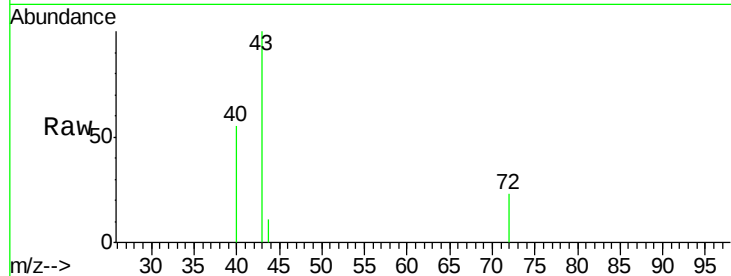
Tot Ion: 43 Resp: 9362

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

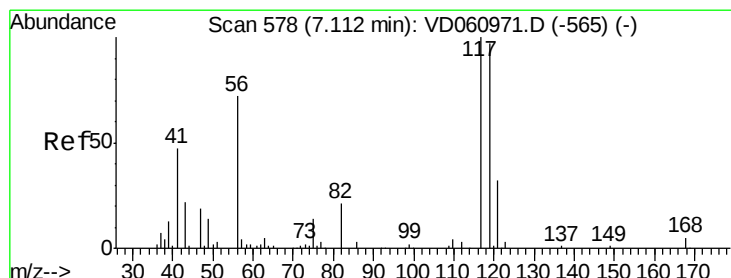
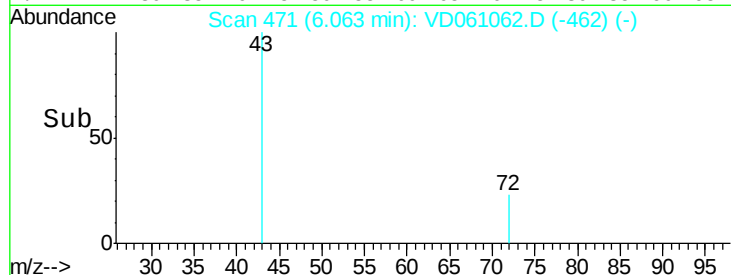
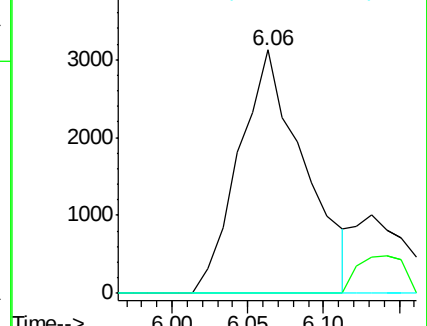
70 0.0 7.1 10.7#



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: 6.104 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

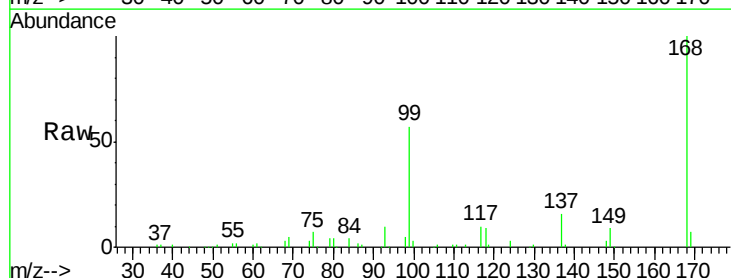
Tgt Ion: 117 Resp: 63568

Ion Ratio Lower Upper

117 100

119 5.0 77.8 116.8#

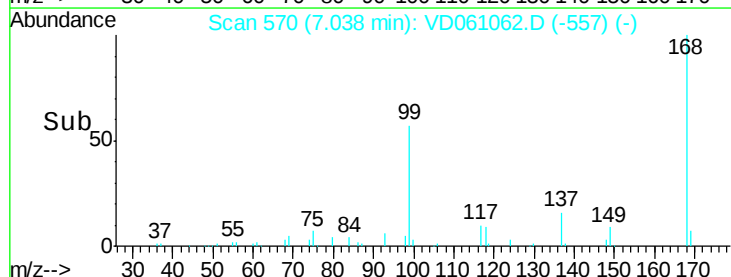
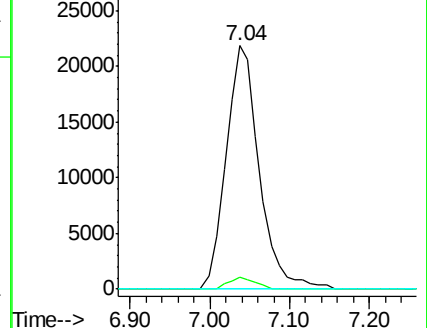
121 0.0 25.3 37.9#

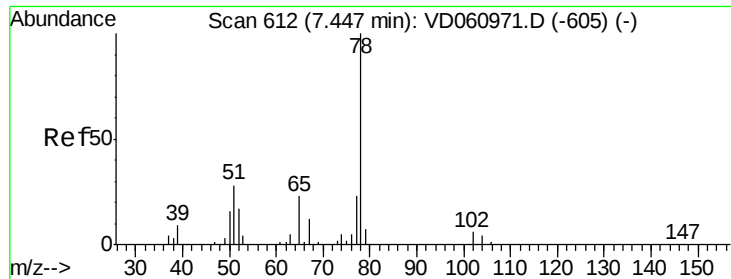


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#40

Benzene

Concen: 1.931 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

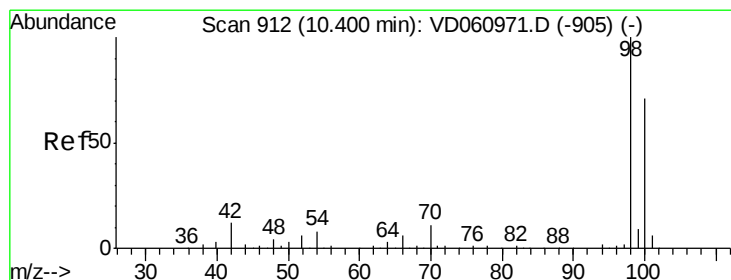
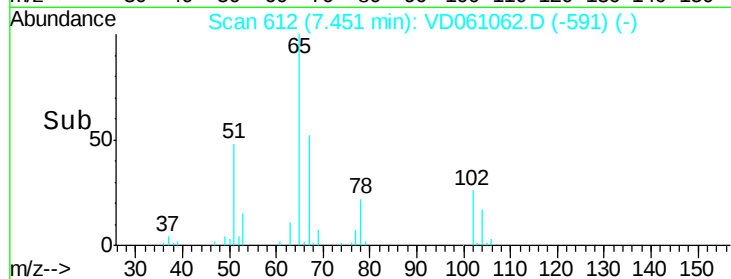
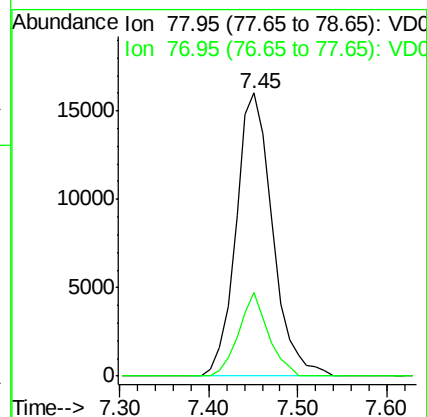
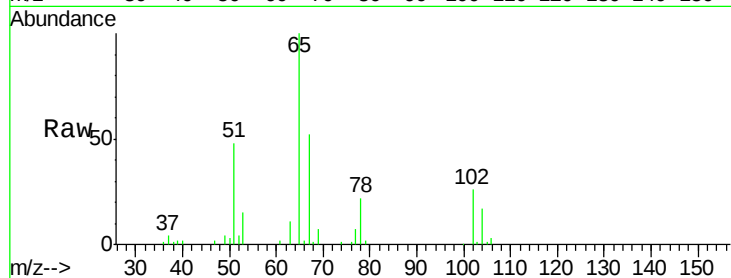
TP-1-DRE

Tot Ion: 78 Resp: 45613

Ion Ratio Lower Upper

78 100

77 29.8 18.8 28.2#



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD061062.D

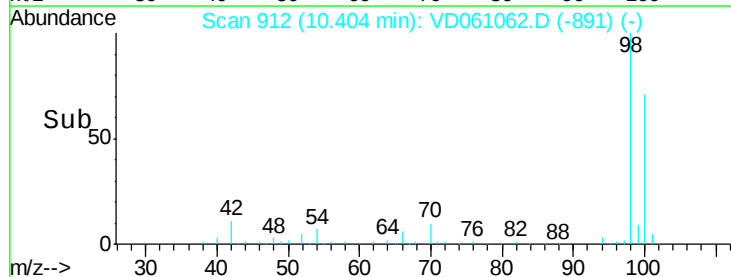
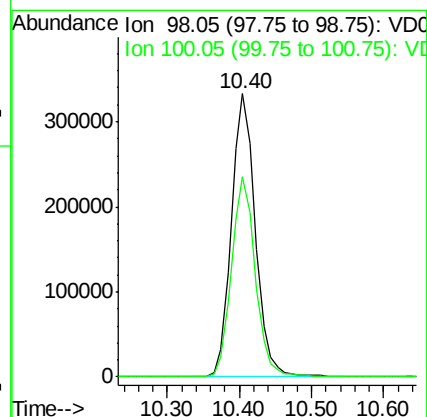
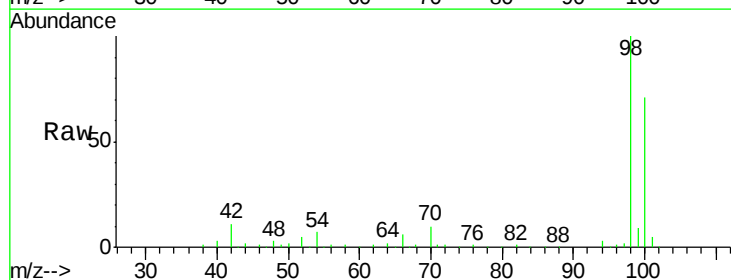
Acq: 14 Mar 2019 14:03

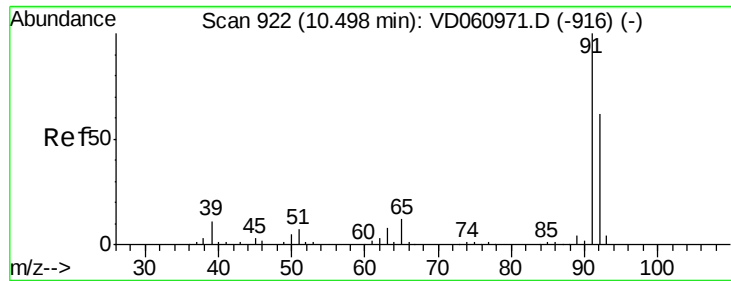
Tgt Ion: 98 Resp: 767613

Ion Ratio Lower Upper

98 100

100 70.7 57.4 86.2





#52

Toluene

Concen: 1.675 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

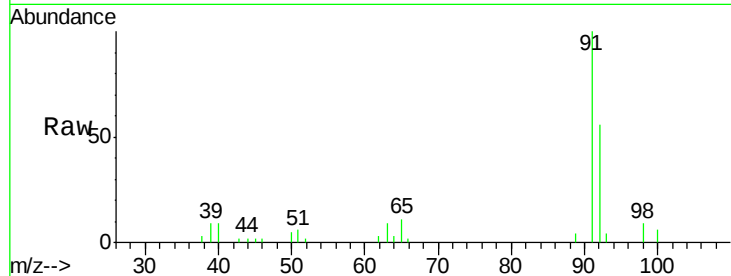
TP-1-DRE

Tot Ion: 92 Resp: 24609

Ion Ratio Lower Upper

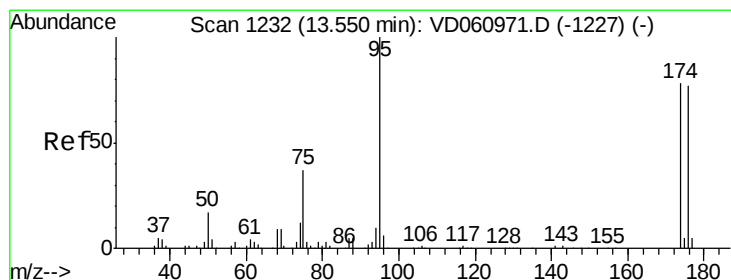
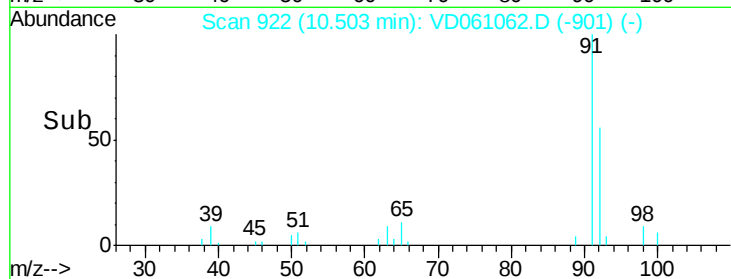
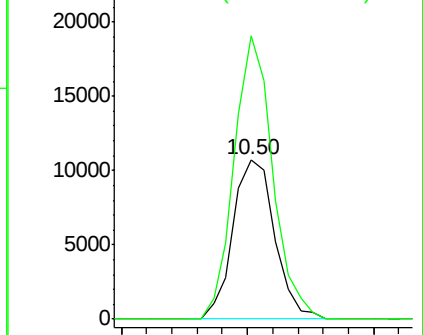
92 100

91 177.8 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

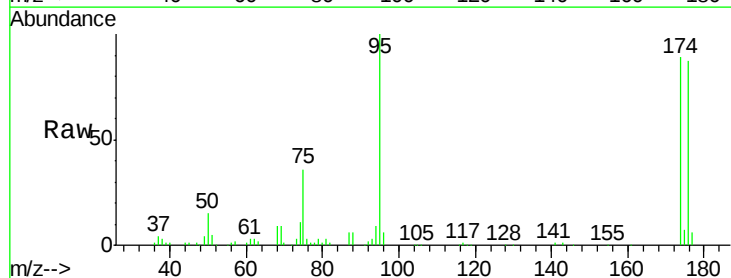
Tgt Ion: 95 Resp: 278989

Ion Ratio Lower Upper

95 100

174 89.0 0.0 155.6

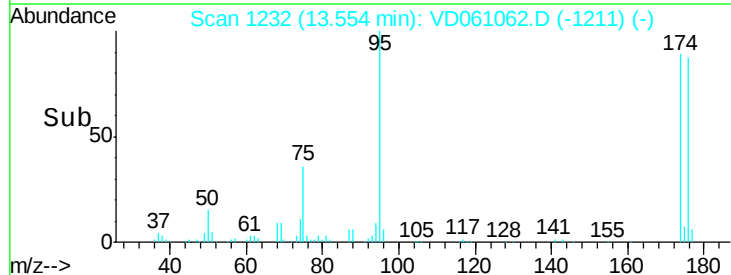
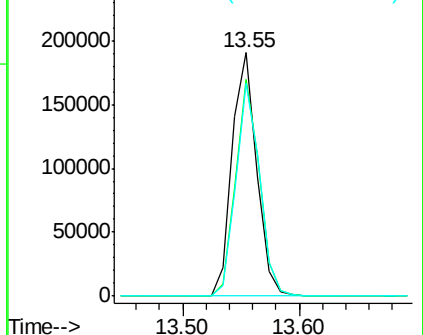
176 87.3 0.0 153.8

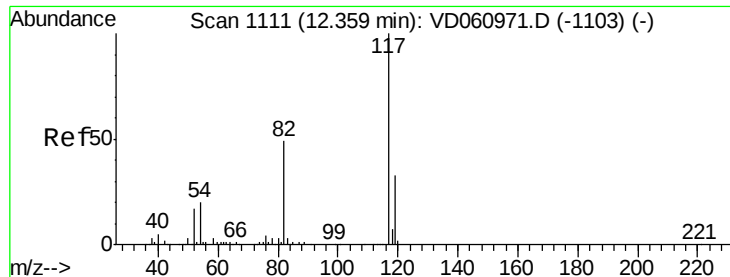


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

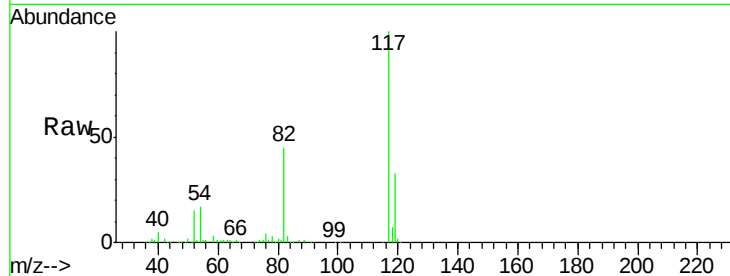




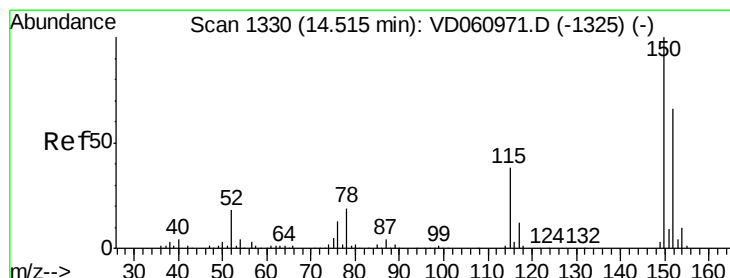
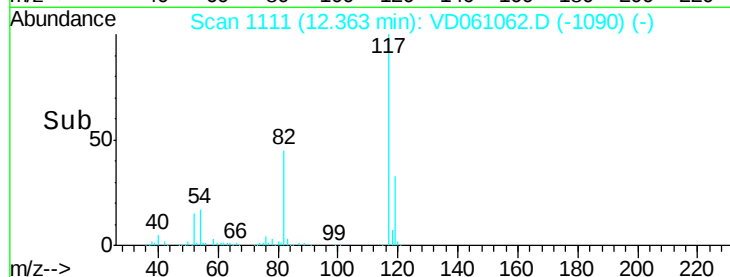
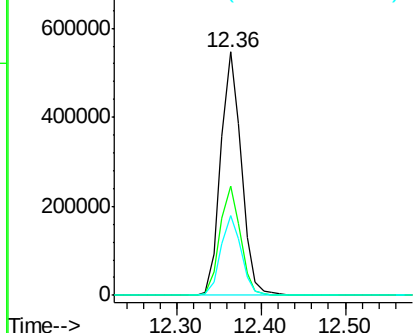
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD061062.D
Acq: 14 Mar 2019 14:03

Instrument :
MSVOA_D
ClientSampled :
TP-1-DRE

Tot Ion:117 Resp: 930532
Ion Ratio Lower Upper
117 100
82 45.0 38.9 58.3
119 32.6 26.6 39.8

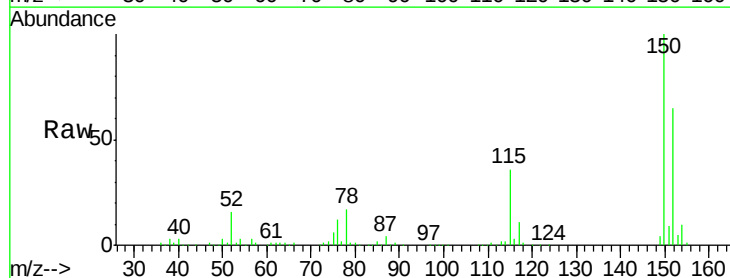


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

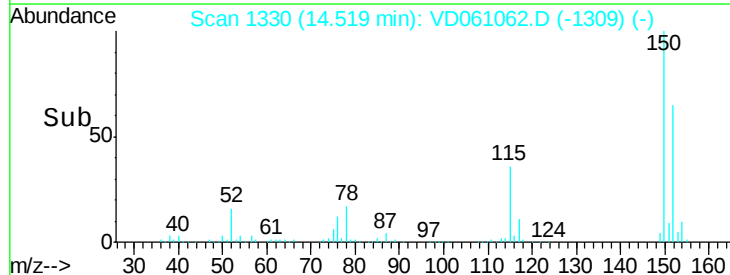
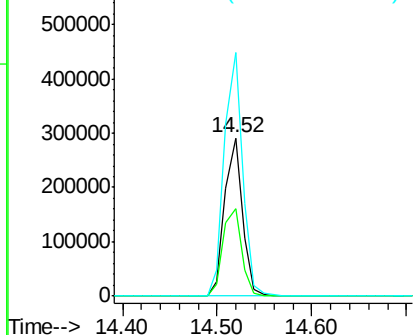


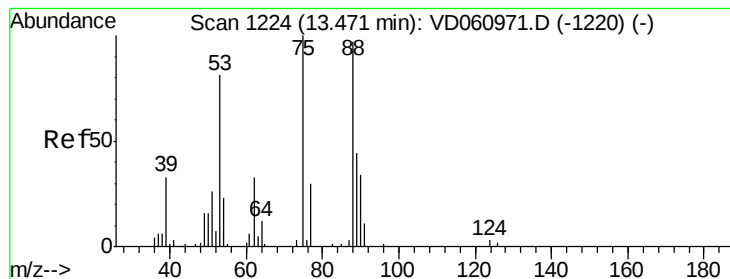
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD061062.D
Acq: 14 Mar 2019 14:03

Tgt Ion:152 Resp: 381018
Ion Ratio Lower Upper
152 100
115 55.0 28.6 85.9
150 154.1 0.0 310.6



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: 63.293 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061062.D

Acq: 14 Mar 2019 14:03

Instrument :

MSVOA_D

ClientSampleId :

TP-1-DRE

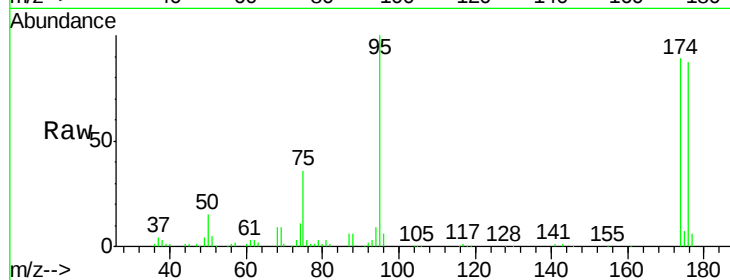
Tot Ion: 75 Resp: 102287

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

